

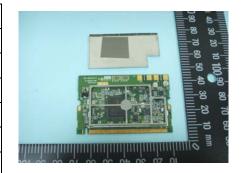
## **SPORTON International Inc.**

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# **FCC RADIO TEST REPORT**

Applicant's company	Trinity Security Systems Inc.		
Applicant Address	Alte Building Higashikanda Chiyoda-ku Tokyo, 101-0031 Japan		
FCC ID	UOH-AG623T		
Manufacturer's company	Z-Com, Inc.		
Manufacturer Address	7F-2, No. 9. Prosperity RD.I Science-Based Industrial, Park Hsinchu, 300 Taiwan		

Product Name	802.11a/g wireless LAN mini PCI adapter		
Brand Name	Trinity Security Systems ( T-SS )		
Model Name AG-623G			
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247		
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz		
Received Date	Oct. 03, 2006		
Final Test Date	May 12, 2007		
Submission Type Original Equipment			



### Statement

Test result included is only for the 802.11b/g part and 802.11a (5725  $\sim$  5850MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full. The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart C. The test equipment used to perform the test is calibrated and traceable to NML/ROC.



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Issued Date : May 21, 2007



# History of This Test Report

Original	Issue	Date:	May	21,	2007
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Report No.: FR751609-AB

■ No additional attachment.

☐ Additional attachment were issued as following record:

Attachment No. Issue Date Description					
Aliachmeni No.	Issue Date	Description			

FCC ID: UOH-AG623T Issued Date : May 21, 2007



Certificate No.:CB9605089

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Issued Date : May 21, 2007

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### 1. CERTIFICATE OF COMPLIANCE

Product Name :

802.11a/g wireless LAN mini PCI adapter

Brand Name :

Trinity Security Systems (T-SS)

Model Name :

AG-623G

Applicant :

Trinity Security Systems Inc.

Test Rule Part(s) :

47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Oct. 03, 2006 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Wayne Hsu

SPORTON INTERNATIONAL INC.



## 2. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C						
Part	Rule Section	Result	Under Limit				
4.1	15.207	AC Power Line Conducted Emissions	Complies	10.79 dB			
4.2	15.247(b)(3)	Maximum Peak Conducted Output Power	Complies	9.56 dB			
4.3	15.247(e)	Power Spectral Density	Complies	15.93 dB			
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-			
4.5	15.247(d)	Radiated Emissions	Complies	0.16 dB			
4.6	15.247(d)	Band Edge Emissions	Complies	1.08 dB			
4.7	15.203	Antenna Requirements	Complies	-			

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Peak Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±8.5×10 <sup>-8</sup>	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	± <b>0.7</b> ℃	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

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## 3. GENERAL INFORMATION

### 3.1. Product Details

Items	Description		
Power Type	From Host systom (Notebook)		
Modulation	DSSS for IEEE 802.11b; OFDM for IEEE 802.11a/g		
Data Modulation	DSSS (BPSK / QPSK / CCK); OFDM (BPSK / QPSK / 16QAM / 64QAM)		
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11); OFDM (6/9/12/18/24/36/48/54/108)		
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz		
Channel Number	11b/g: 12 ; 11a: 7		
Channel Band Width (99%)	11b: 15.56 MHz ; 11g: 16.52 MHz ; 11g Super: 32.82 MHz ;		
	11a(Band 3): 16.52 MHz ; 11a super: 33.07 MHz		
Conducted Output Power	11b: 16.55 dBm; 11g: 20.44 dBm; 11g Super: 17.73 MHz;		
	11a(Band 3): 19.56 dBm ; 11a super: 18.71 MHz		
Carrier Frequencies	Please refer to section 3.4		
Antenna	Please refer to section 3.3		

### 3.2. Accessories

N/A

### 3.3. Table for Filed Antenna

### For 2.4GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Wha Yu	C356-510150-A	Dipole Antenna	Reversed-SMA	5.0

#### For 5GHz Band

Α	nt.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	1	Wha Yu	C356-510153-A	Dipole Antenna	Reversed-SMA	5.0

## 3.4. Table for Carrier Frequencies

## Frequency Allocation for 802.11b/g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
2400~2483.5MHz	3	2422 MHz	9	2452 MHz
2400~2463.5IVIH2	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz	Super 6	2437 MHz

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### Frequency Allocation for 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	149	5745 MHz	Super 152	5760 MHz
	153	5765 MHz	Super 160	5800 MHz
5725~5850 MHz	157	5785 MHz		
	161	5805 MHz		
	165	5825 MHz		

### 3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. 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.

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	11 Mbps	6	1
Max. Peak Conducted Output Power	11b/BPSK	1 Mbps	1/6/11	NA
Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	NA
6dB Spectrum Bandwidth	11g/BPSK Super	12 Mbps	6	NA
	11a/BPSK	6 Mbps	149/157/165	NA
	11a/BPSK Super	12 Mbps	152/160	NA
Radiated Emissions Below 1GHz	11g/BPSK	6 Mbps	6	1
Radiated Emissions Above 1GHz	11b/BPSK	1 Mbps	1/6/11	1
Band Edge Emissions	11g/BPSK	6 Mbps	1/6/11	1
	11g/BPSK Super	12 Mbps	6	1
	11a/BPSK	6 Mbps	149/157/165	1
	11a/BPSK Super	12 Mbps	152/160	1
Band Edge Emissions	11b/BPSK	1 Mbps	1/11	1
	11g/BPSK	6 Mbps	1/11	1
	11g/BPSK Super	12 Mbps	6	1
	11a/BPSK	6 Mbps	149/165	1
	11a/BPSK Super	12 Mbps	152/160	1

Note: Radiated emissions below 1GHz depending on 802.11abg mode are the same result.

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## 3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	-	-	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

## 3.7. Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR6O0303 Below is the table for the change of the product with respect to the original one.

Modifications	Description			
Mode Name change	Original: AG623			
	New: AG623G			
	Additional test:			
	Maximum Peak Output Power Measurement			
Addianal Cupar mada	Power Spectral Density Measurement			
Addional Super mode	6dB Spectrum Bandwidth Measurement			
	Radiated Emissions Measurement			
	Band Edge Emissions Measurement			

## 3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D505	E2K24GBRL
Printer	EPSON	LQ-300	DoC
Modem	ACEEX	DM1414	IFAXDM1414

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### 3.9. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

#### Power Parameters of IEEE 802.11b/g

Test Software Version		ART					
Frequency	2412 MHz	2437 MHz	2462 MHz				
IEEE 802.11b	15.5	17	15.5				
IEEE 802.11g	14.5	17	14.5				
IEEE 802.11g Super	-	15	-				

#### Power Parameters of IEEE 802.11a

Test Software Version	ART					
Frequency	5745 MHz	5785 MHz	5825 MHz			
IEEE 802.11a	16	16	16			
Frequency	5760 MHz	5800 MHz	-			
IEEE 802.11a Super	21	21	-			

An executive program, EMITEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.
- c. The NB sends "H" messages to the printer, then the printer prints them on the paper.
- d. The NB sends "H" messages to the modem.
- e. Repeat the steps from b to d.

At the same time, "ART" was executed the test program to control the EUT continuously transmit RF signal.

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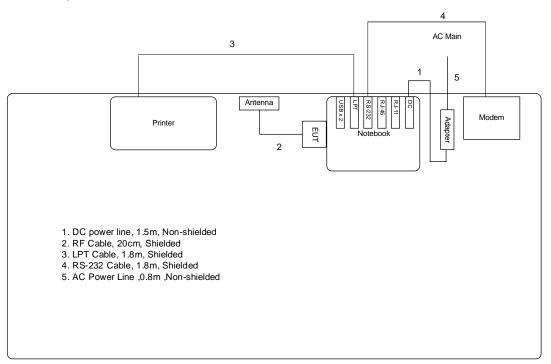




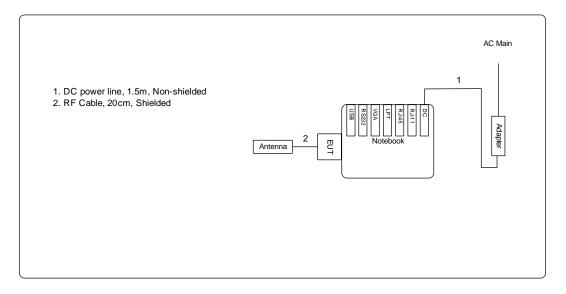
## 3.10.Test Configurations

## 3.10.1. Radiation Emissions Test Configuration

Test Configurations: 9kHz~1GHz



### Test Configurations: Above 1GHz

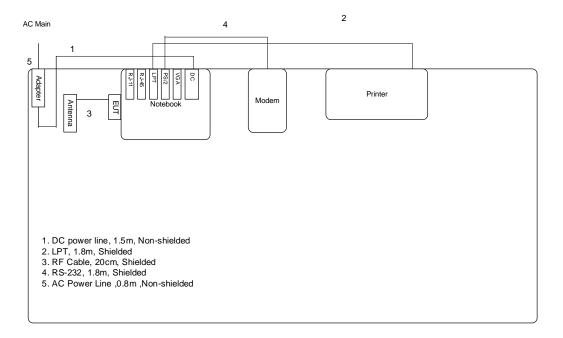


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## 3.10.2. AC Power Line Conduction Emissions Test Configuration



### 4. TEST RESULT

#### 4.1. AC Power Line Conducted Emissions Measurement

#### 4.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	Frequency (MHz) QP Limit (dBuV)		
0.15~0.5	66~56	56~46	
0.5~5	56	46	
5~30	60	50	

### 4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

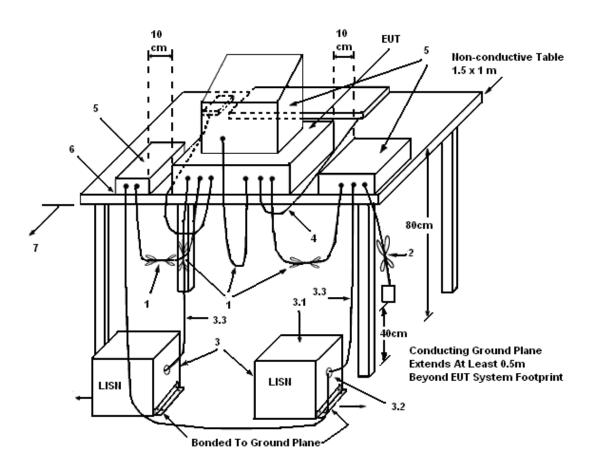
#### 4.1.3. Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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#### 4.1.4. Test Setup Layout



### LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50  $\,\Omega$ . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

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## 4.1.5. Test Deviation

There is no deviation with the original standard.

## 4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

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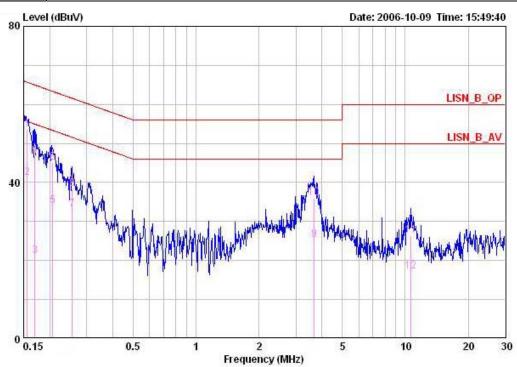
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## 4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	27.9℃	Humidity	54%
Test Engineer	Johnson Chang	Phase	Line
Configuration	Normal Link		



			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
<b>1</b> @	0.15617	53.56	-12.10	65.67	52.68	0.68	0.20	QP
2	0.15617	41.29	-14.37	55.67	40.41	0.68	0.20	AVERAGE
3	0.16944	21.19	-33.79	54.99	20.32	0.67	0.20	AVERAGE
4	0.16944	46.97	-18.01	64.99	46.10	0.67	0.20	QP
3 4 5 6	0.20642	33.93	-19.42	53.35	33.08	0.65	0.20	AVERAGE
6	0.20642	45.08	-18.27	63.35	44.23	0.65	0.20	QP
7	0.25615	33.06	-18.50	51.56	32.23	0.63	0.20	AVERAGE
8	0.25615	38.35	-23.21	61.56	37.52	0.63	0.20	QP
9	3.681	25.33	-20.67	46.00	24.70	0.33	0.30	AVERAGE
10	3.681	36.01	-19.99	56.00	35.38	0.33	0.30	QP
11	10.676	26.44	-33.56	60.00	25.83	0.21	0.40	QP
12	10.676	17.28	-32.72	50.00	16.67	0.21	0.40	AVERAGE

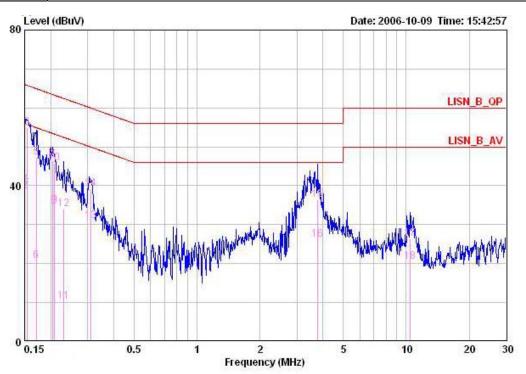
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Temperature	<b>2</b> 6℃	Humidity	54%
Test Engineer	Johnson Chang	Phase	Neutral
Configuration	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.15000	53.11	-12.89	66.00	52.22	0.69	0.20	QP
2	0.15000	38.69	-17.31	56.00	37.80	0.69	0.20	AVERAGE
3 @	0.15375	55.01	-10.79	65.79	54.12	0.69	0.20	QP
4	0.15375	40.64	-15.16	55.79	39.75	0.69	0.20	AVERAGE
5	0.17034	47.23	-17.71	64.94	46.36	0.67	0.20	QP
5 6 7 8	0.17034	20.73	-34.21	54.94	19.86	0.67	0.20	AVERAGE
7	0.20505	46.36	-17.04	63.40	45.51	0.65	0.20	QP
8	0.20505	34.73	-18.67	53.40	33.88	0.65	0.20	AVERAGE
9	0.20837	34.78	-18.49	53.27	33.93	0.65	0.20	AVERAGE
10	0.20837	45.69	-17.58	63.27	44.84	0.65	0.20	QP
11	0.23162	10.30	-42.09	52.39	9.46	0.64	0.20	AVERAGE
12	0.23162	34.11	-28.28	62.39	33.27	0.64	0.20	QP
13	0.31134	30.97	-18.97	49.93	30.16	0.61	0.20	AVERAGE
14	0.31134	39.14	-20.80	59.93	38.33	0.61	0.20	QP
15	3.759	36.35	-19.65	56.00	35.72	0.33	0.30	QP
16	3.759	26.05	-19.95	46.00	25.42	0.33	0.30	AVERAGE
17	10.397	26.29	-33.71	60.00	25.69	0.22	0.38	QP
18	10.397	20.54	-29.46	50.00	19.94	0.22	0.38	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss

### 4.2. Maximum Peak Output Power Measurement

#### 4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi. Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

#### 4.2.2. Measuring Instruments and Setting

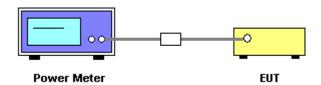
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Peak Sensor	NRV-Z32 (model 04)

#### 4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the peak power value.
- 3. Repeat above procedures on all channels needed to be tested.

#### 4.2.4. Test Setup Layout



#### 4.2.5. Test Deviation

There is no deviation with the original standard.

#### 4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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## 4.2.7. Test Result of Maximum Peak Output Power

Temperature	<b>24</b> ℃	Humidity	56%
Test Engineer	Leo Hung	Configurations	802.11a/b/g

### Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.11	30.00	Complies
6	2437 MHz	16.55	30.00	Complies
11	2462 MHz	14.62	30.00	Complies

## Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.12	30.00	Complies
6	2437 MHz	20.44	30.00	Complies
11	2462 MHz	18.66	30.00	Complies

## Configuration IEEE 802.11g Super

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
6	2437 MHz	17.73	30.00	Complies

## Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.34	30.00	Complies
157	5785 MHz	19.56	30.00	Complies
165	5825 MHz	19.38	30.00	Complies

## Configuration IEEE 802.11a Super

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	18.71	30.00	Complies
160	5800 MHz	18.43	30.00	Complies

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### 4.3. Power Spectral Density Measurement

#### 4.3.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

### 4.3.2. Measuring Instruments and Setting

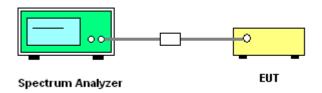
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

### 4.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
- 3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- 4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

### 4.3.4. Test Setup Layout



#### 4.3.5. Test Deviation

There is no deviation with the original standard.

### 4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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## 4.3.7. Test Result of Power Spectral Density

Temperature	<b>24</b> ℃	Humidity	56%
Test Engineer	Leo Hung	Configurations	802.11a/b/g

## Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-11.27	8.00	Complies
6	2437 MHz	-8.92	8.00	Complies
11	2462 MHz	-10.62	8.00	Complies

## Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-13.11	8.00	Complies
6	2437 MHz	-7.93	8.00	Complies
11	2462 MHz	-12.32	8.00	Complies

## Configuration IEEE 802.11g Super

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
6	2437 MHz	-12.23	8	Complies

## Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	-12.05	8.00	Complies
157	5785 MHz	-12.57	8.00	Complies
165	5825 MHz	-12.38	8.00	Complies

## Configuration IEEE 802.11a Super

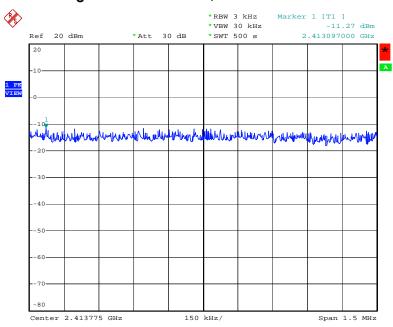
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-21.50	8	Complies
160	5800 MHz	-20.28	8	Complies

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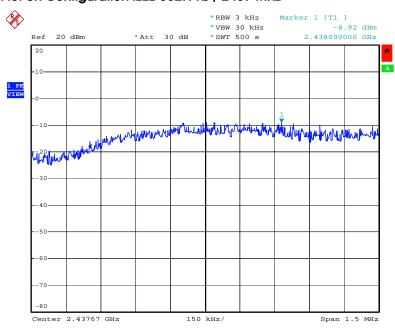


## Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 11.OCT.2006 03:49:47

## Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



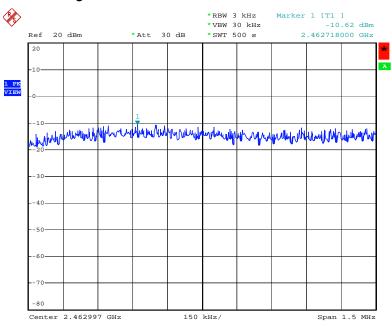
Date: 11.0CT.2006 03:51:45

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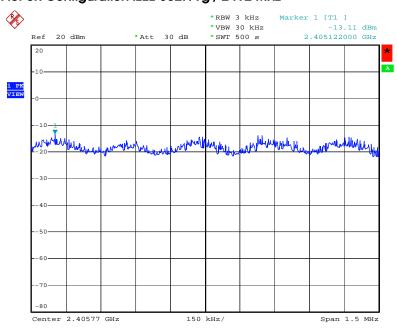


## Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 11.0CT.2006 03:50:34

## Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



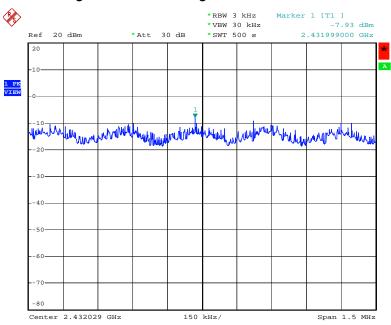
Date: 11.OCT.2006 03:44:21

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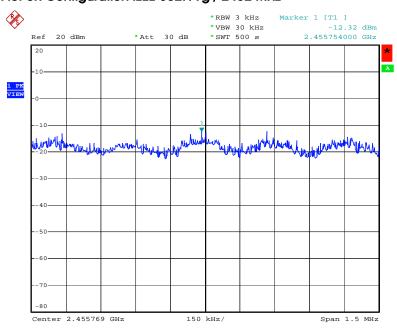


## Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 11.OCT.2006 03:45:42

## Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



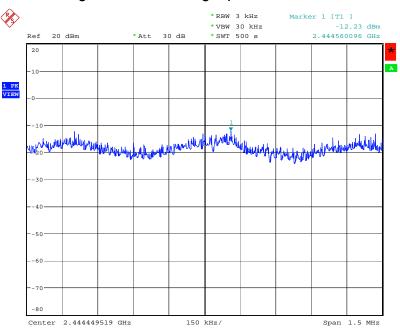
Date: 11.OCT.2006 03:46:26

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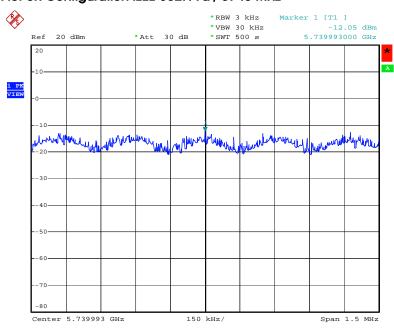


## Power Density Plot on Configuration IEEE 802.11g Super / 2437 MHz



Date: 12.MAY.2007 18:09:24

### Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



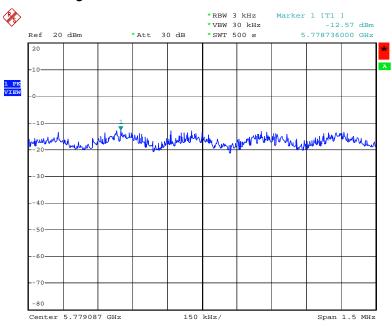
Date: 11.0CT.2006 03:56:39

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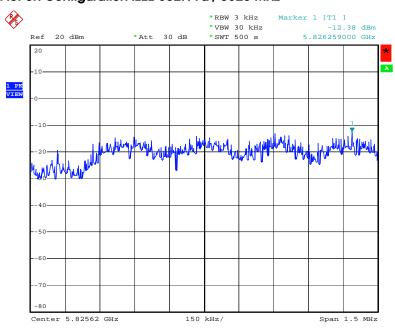


## Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



Date: 11.OCT.2006 03:57:42

## Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



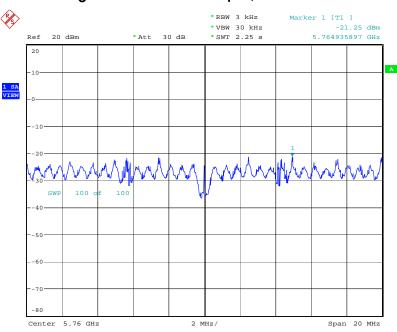
Date: 11.0CT.2006 03:59:41

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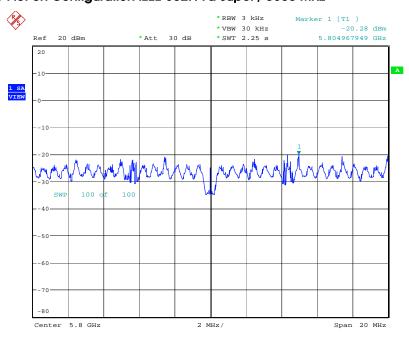


## Power Density Plot on Configuration IEEE 802.11a Super / 5760 MHz



Date: 12.MAY.2007 18:43:45

### Power Density Plot on Configuration IEEE 802.11a Super / 5800 MHz



Date: 12.MAY.2007 18:48:40

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### 4.4. 6dB Spectrum Bandwidth Measurement

#### 4.4.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

### 4.4.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

#### 4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

### 4.4.4. Test Setup Layout



### 4.4.5. Test Deviation

There is no deviation with the original standard.

### 4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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## 4.4.7. Test Result of 6dB Spectrum Bandwidth

Temperature	<b>24</b> °C	Humidity	56%
Test Engineer	Leo Hung	Configurations	802.11a/b/g

## Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.04	15.56	500	Complies
6	2437 MHz	12.08	15.56	500	Complies
11	2462 MHz	12.04	15.52	500	Complies

## Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.52	500	Complies
6	2437 MHz	16.36	16.52	500	Complies
11	2462 MHz	16.40	16.52	500	Complies

### Configuration IEEE 802.11g Super

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
6	2437 MHz	32.56	32.82	500	Complies

## Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.40	16.52	500	Complies
157	5785 MHz	16.36	16.52	500	Complies
165	5825 MHz	16.44	16.52	500	Complies

## Configuration IEEE 802.11a Super

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	31.47	32.94	500	Complies
160	5800 MHz	31.98	33.07	500	Complies

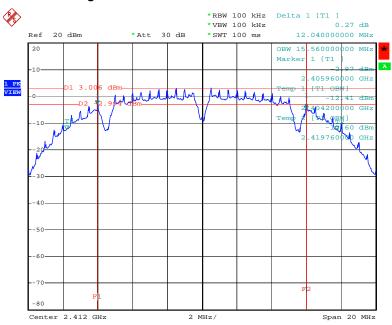
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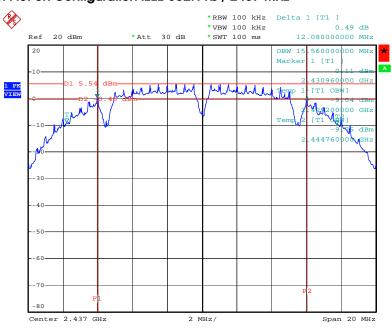


## 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 11.OCT.2006 03:49:22

### 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



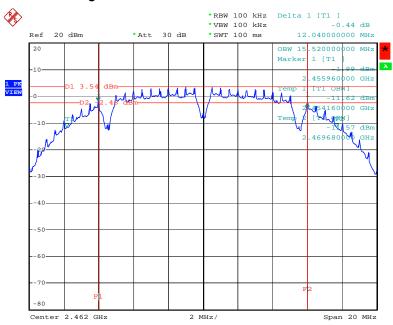
Date: 11.0CT.2006 03:51:28

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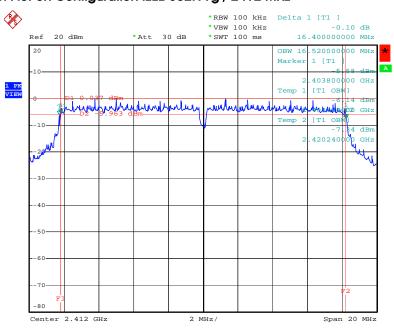


## 6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 11.0CT.2006 03:50:19

## 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



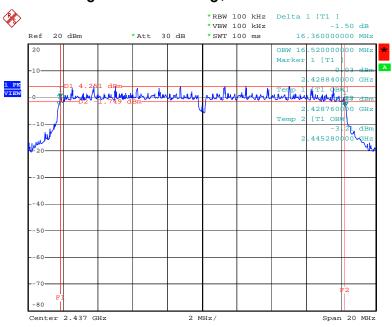
Date: 11.0CT.2006 03:43:56

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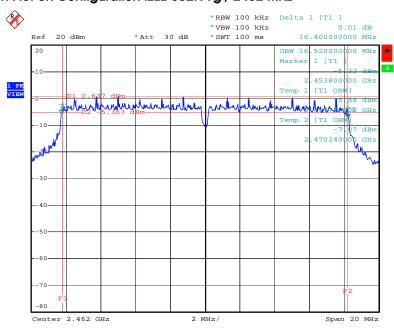


## 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 11.OCT.2006 03:45:25

### 6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



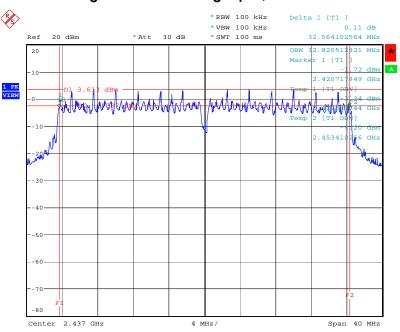
Date: 11.OCT.2006 03:46:10

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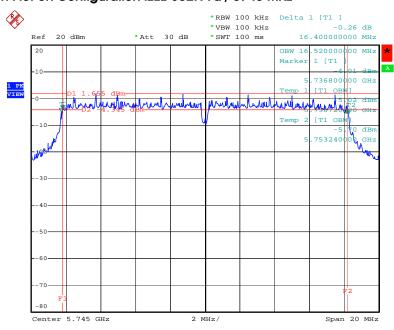


### 6 dB Bandwidth Plot on Configuration IEEE 802.11g Super / 2437 MHz



Date: 12.MAY.2007 18:09:08

### 6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 11.0CT.2006 03:56:14

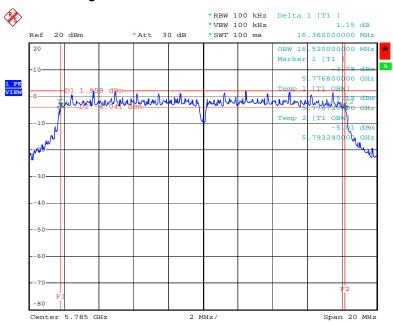
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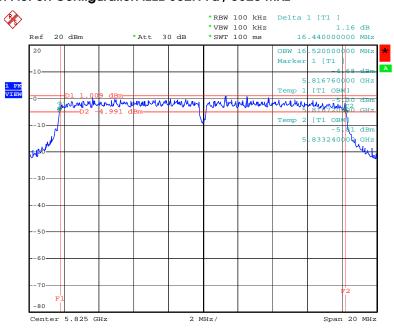


## 6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



Date: 11.0CT.2006 03:57:17

### 6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



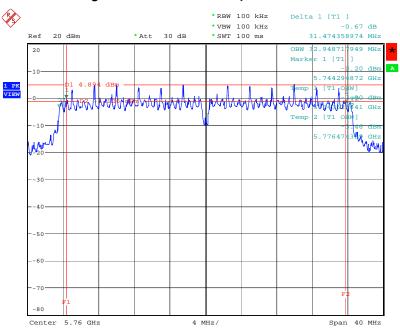
Date: 11.0CT.2006 03:58:05

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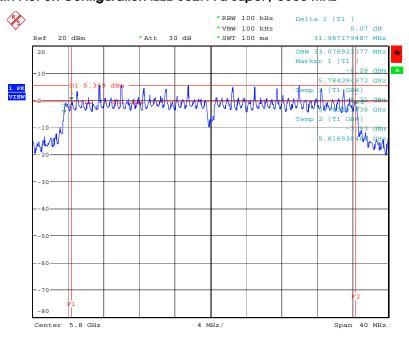


### 6 dB Bandwidth Plot on Configuration IEEE 802.11a Super / 5760 MHz



Date: 12.MAY.2007 18:39:55

### 6 dB Bandwidth Plot on Configuration IEEE 802.11a Super / 5800 MHz



Date: 12.MAY.2007 18:44:50

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### 4.5. Radiated Emissions Measurement

### 4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100KHz / 100KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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### 4.5.3. Test Procedures

Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 3 meters far away from the turntable.

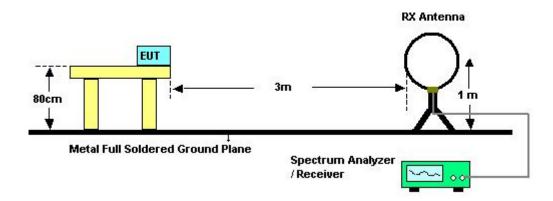
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions 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.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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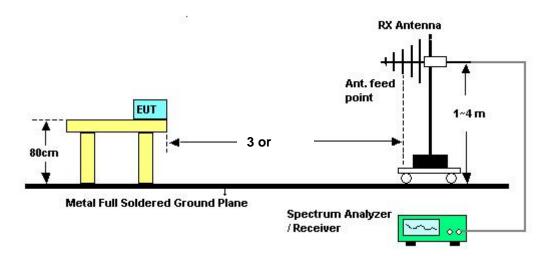


## 4.5.4. Test Setup Layout

#### For radiated emissions below 30MHz



#### For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

#### 4.5.5. Test Deviation

There is no deviation with the original standard.

## 4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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# 4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	<b>23</b> ℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11g CH 6 / 802.11a CH 157

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

#### Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

 $\label{limit} \mbox{Limit line} = \mbox{specific limits (dBuV)} + \mbox{distance extrapolation factor}.$ 

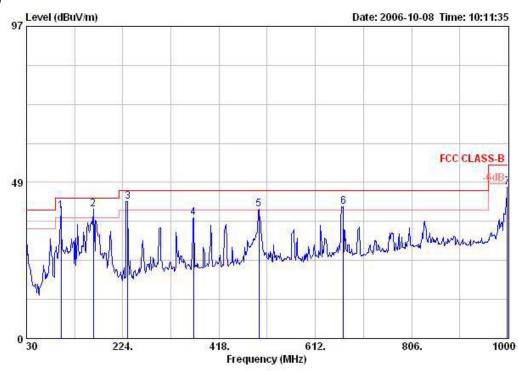
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# 4.5.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	23℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11g CH 6 / 802.11a CH 157

## Horizontal

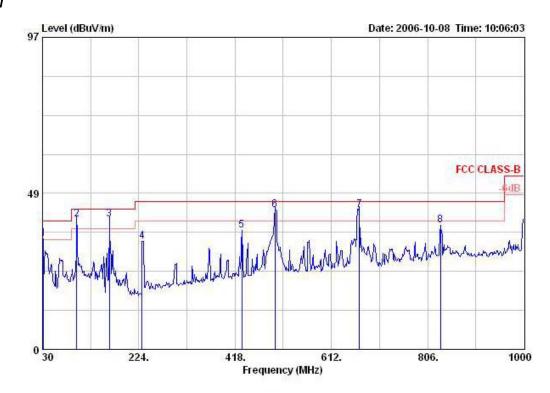


	Freq	Level	Over Limit		0.00737777	Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-		deg
1!	99.840	39.55	-3.95	43.50	53.98	11.20	0.30	25.93	QP	400	12
2 !	164.830	40.27	-3.23	43.50	54.86	10.35	0.72	25.66	Peak	100	0
3 !	233.700	42.50	-3.50	46.00	55.18	11.66	1.09	25.43	Peak	100	0
4	366.590	37.59	-8.41	46.00	45.76	15.70	1.31	25.17	Peak	100	0
5 !	498.510	40.17	-5.83	46.00	46.93	17.78	1.80	26.33	Peak	100	0
6 !	668.260	41.02	-4.98	46.00	45.34	19.64	2.14	26.10	Peak	100	0
7	999.030	46.92	-7.08	54.00	46.74	22.29	3.11	25.23	Peak	100	0

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			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1!	31.940	34.49	-5.51	40.00	41.70	18.96	0.32	26.49	Peak	400	0
2 !	98.870	40.38	-3.12	43.50	54.97	11.01	0.36	25.96	QP	100	20
3 @	164.830	40.52	-2.98	43.50	55.11	10.35	0.72	25.66	QP	100	0
4	230.790	33.57	-12.43	46.00	46.54	11.39	1.08	25.44	Peak	400	0
5	431.580	36.88	-9.12	46.00	44.24	16.94	1.49	25.79	Peak	400	0
6 @	498.510	43.40	-2.60	46.00	50.16	17.78	1.80	26.33	QP	100	160
7 @	668.260	43.30	-2.70	46.00	47.62	19.64	2.14	26.10	QP	100	120
8	832.190	38.50	-7.50	46.00	39.77	21.15	2.52	24.94	Peak	400	0

#### Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) =  $20 \log Emission$  level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

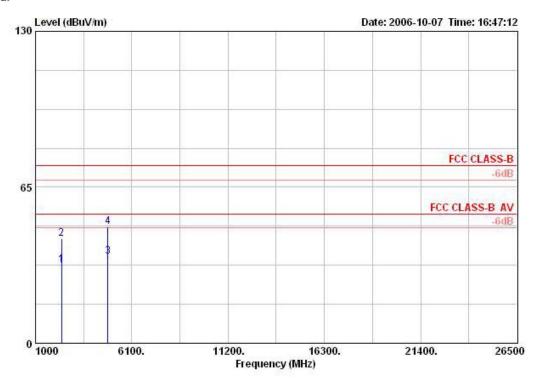
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# 4.5.9. Results for Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)

Temperature	23℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11b CH 1

## Horizontal



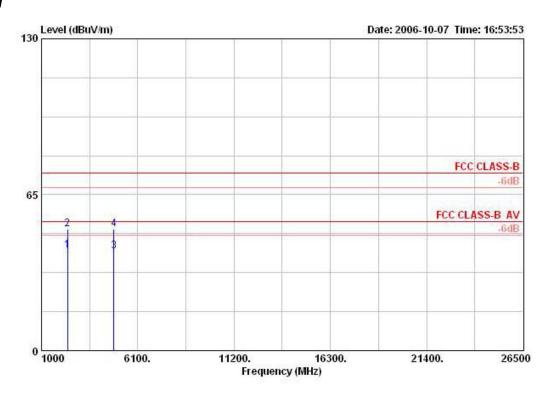
	Freq	Level				Antenna Factor				Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	2382.264	32.41	-21.59	54.00	32.69	28.09	5.14	33.50	AVERAGE	117	96
2	2382.264	43.47	-30.53	74.00	43.75	28.09	5.14	33.50	PEAK	117	96
3	4823.960	36.08	-17.92	54.00	28.91	33.22	7.18	33.24	AVERAGE	117	331
4	4823.960	48.42	-25.58	74.00	41.25	33.22	7.18	33.24	PEAK	117	331

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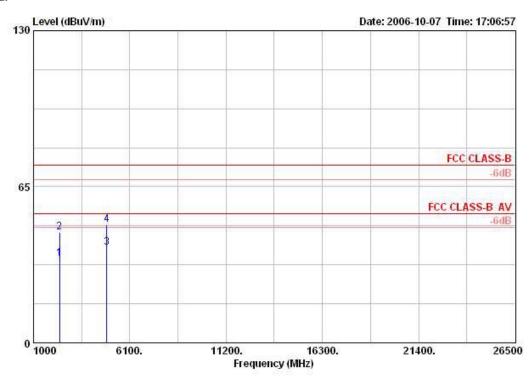


	Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1 @	2382.596	41.73	-12.27	54.00	42.01	28.09	5.14	33.50	AVERAGE	100	263
2	2382.596	50.70	-23.30	74.00	50.98	28.09	5.14	33.50	PEAK	100	263
3	4823.972	41.54	-12.46	54.00	34.37	33.22	7.18	33.24	AVERAGE	100	102
4	4823.972	50.72	-23.28	74.00	43.55	33.22	7.18	33.24	Peak	100	102





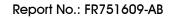
Temperature	<b>23</b> ℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11b CH 6



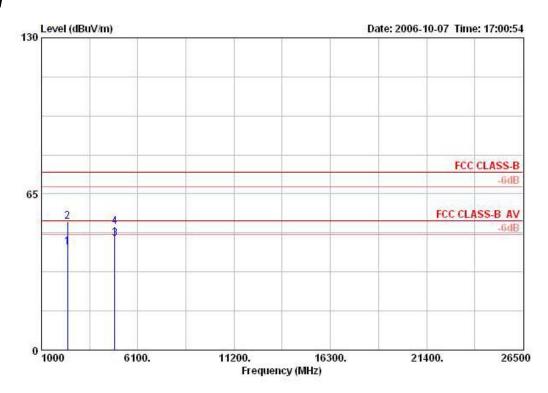
			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1		deg
1	2376.020	35.19	-18.81	54.00	35.47	28.09	5.14	33.50	AVERAGE	100	156
2	2376.020	46.10	-27.90	74.00	46.38	28.09	5.14	33.50	PEAK	100	156
3	4874.000	39.84	-14.16	54.00	32.53	33.33	7.20	33.23	AVERAGE	144	139
4	4874.000	49.27	-24.73	74.00	41.96	33.33	7.20	33.23	PEAK	144	139

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			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	2376.020	42.85	-11.15	54.00	43.13	28.09	5.14	33.50	AVERAGE	100	262
2	2376.020	53.39	-20.61	74.00	53.67	28.09	5.14	33.50	PEAK	100	262
3	4873.948	46.44	-7.56	54.00	39.13	33.33	7.20	33.23	AVERAGE	100	255
4	4873.948	51.36	-22.64	74.00	44.05	33.33	7.20	33.23	PEAK	100	255

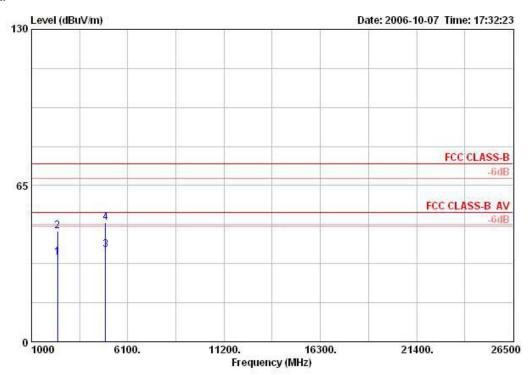
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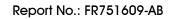
Temperature	23℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11b CH 11



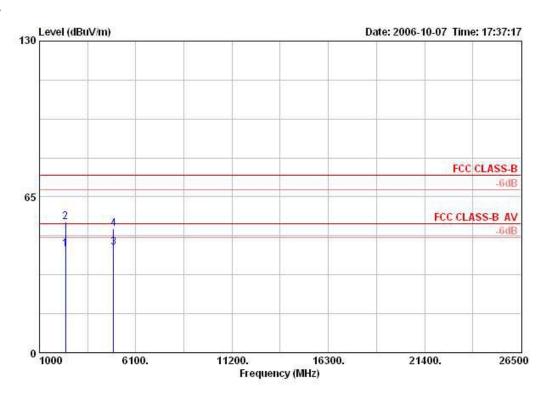
			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-		deg
1	2375.800	34.90	-19.10	54.00	35.18	28.09	5.14	33.50	AVERAGE	133	194
2	2375.800	46.15	-27.85	74.00	46.43	28.09	5.14	33.50	PEAK	133	194
3	4923.980	38.35	-15.65	54.00	30.90	33.45	7.22	33.22	AVERAGE	103	195
4	4923.980	49.44	-24.56	74.00	41.99	33.45	7.22	33.22	PEAK	103	195

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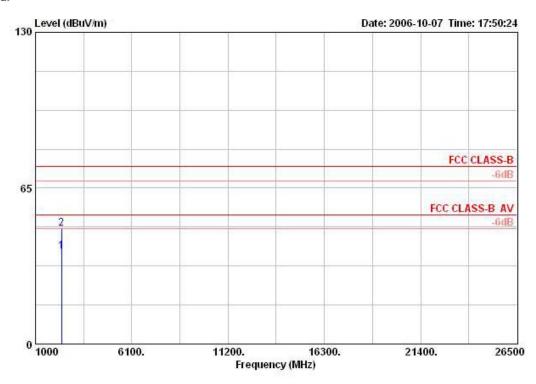


			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ē <sup>5</sup> - 27	cm	deg
1	2375.840	43.34	-10.66	54.00	43.62	28.09	5.14	33.50	AVERAGE	100	261
2	2375.840	54.41	-19.59	74.00	54.69	28.09	5.14	33.50	PEAK	100	261
3	4923.980	44.03	-9.97	54.00	36.58	33.45	7.22	33.22	AVERAGE	100	256
4	4923.980	51.68	-22.32	74.00	44.23	33.45	7.22	33.22	PEAK	100	256





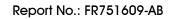
Temperature	23℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11g CH 1



	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBu∀	dB/m	dB	dB		cm	deg
1	2375.610	38.46	-15.54	54.00	38.74	28.09	5.14	33.50	AVERAGE	101	157
2	2375.610	48.20	-25.80	74.00	48.48	28.09	5.14	33.50	PEAK	101	157

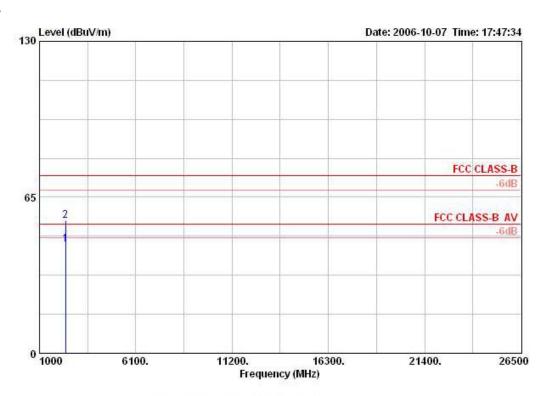
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1



				ReadAntenna					Ant	
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm	deg
2375.610	45.51	-8.49	54.00	45.79	28.09	5.14	33.50	AVERAGE	100	279
2375.610	55.20	-18.80	74.00	55.48	28.09	5.14	33.50	PEAK	100	279

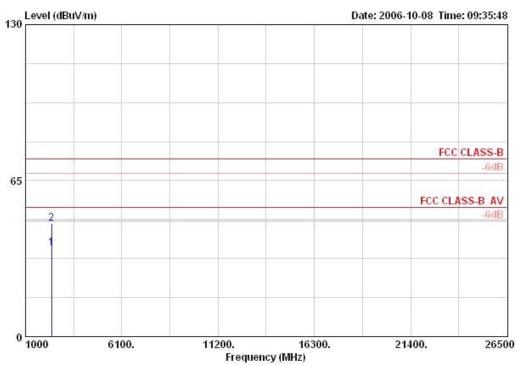
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Temperature	23℃	Humidity	54%
Test Engineer	Beck Wu	Configurations	802.11g CH 6



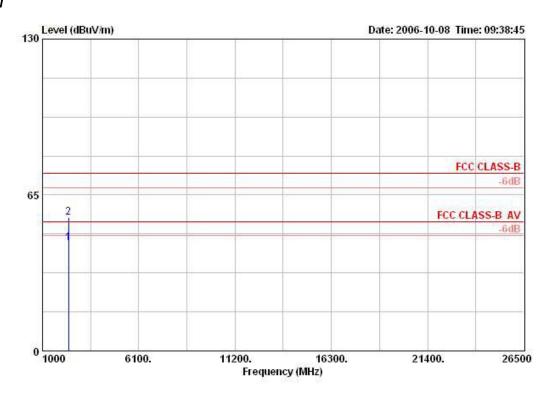
			Over	Limit	ReadAntenna		Cable Preamp		Ant		Table				
	Freq	Freq	Freq	Freq	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	/ dB/m	dB	dB		cm	deg				
1	2374.910	36.74	-17.26	54.00	37.02	28.09	5.14	33.50	AVERAGE	100	158				
2	2374.910	47.24	-26.76	74.00	47.52	28.09	5.14	33.50	PEAK	100	158				

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			Over Limit		ReadAntenna		Cable Preamp			Ant	Table
	Freq	Level				/ dB/m			A.S	Pos	Pos deg
	Mtz	MHz dBuV/m d	dB								
1	2376.050	45.09	-8.91	54.00	45.37	28.09	5.14	33.50	AVERAGE	100	261
2	2377.510	55.53	-18.47	74.00	55.80	28.09	5.14	33.50	PEAK	100	261

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