



Test Report

Product Name : AIRLINK101 802.11g Wireless Music Bridge
Model No. : AWMB100
FCC ID. : RRK-AWMB100

Applicant : Alpha Networks Inc.
Address : No. 8, Li-Hsin VII Road, Science-Based Industrial Park,
Hsin-Chu, Taiwan, R.O.C.

Date of Receipt : 2007/10/16
Issued Date : 2007/10/30
Report No. : 07A240R-RFUSP05V01

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2007/10/30

Report No. : 07A240R-RFUSP05V01



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Applicant : Alpha Networks Inc.

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Hsin-Chu, Taiwan, R.O.C.

Manufacturer : Alpha Networks Inc.

Model No. : AWMB100

FCC ID. : RRK-AWMB100

Rated Voltage : AC 120 V / 60 Hz

EUT Voltage : AC 120 V / 60 Hz

Trade Name : Airlink101

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2006

Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

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Reviewed By : Halu Chung
(Halu Chung / Assistant Engineer)

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(Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	AIRLINK101 802.11g Wireless Music Bridge
Trade Name	Airlink101
Model No.	AWMB100
Frequency Range	2412~2462MHz
Channel Number	11
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Antenna Gain	2 dBi
Channel Control	Auto
Antenna Type	Connector (R-SMA connector)

Component	
LAN Cable	Non-Shielded, 5m
Power Adapter	JENTEC, AF1205-B I/P: AC 100~120V, 50~60Hz, 0.3A O/P: DC 5V, 2.0A Cable Out: Non-Shielded, 1.75m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

Note:

1. This device is an AIRLINK101 802.11g Wireless Music Bridge included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the highest rate that was included the lowest 、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 07A240R-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is a Wireless Music Bridge for 2.4GHz wireless transceiver signal.. Operating Frequency Range is from 2412 MHz to 2462 MHz. The device adapts Digitally Modulation Spread Spectrum modulation. The Connector antenna was provides diversity function to improve the receiving function. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) radio transmission for IEEE 802.11b and Orthogonal Frequency Division Multiplexing (OFDM) for IEEE 802.11g.

The Antenna Output is 20279-001E-d . The function of CONN REVERSE SMA is disabled. The resistance and capacitance have be disconnected from the circuit .

This device provided four kinds of transmitting speed 1 Mbps, 2 Mbps, 5.5 Mbps and 11Mbps for IEEE 802.11b and eight kinds of transmitting speed 6 Mbps, 9 Mbps, 12 Mbps,18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps and 54Mbps for IEEE 802.11g. The device of RF carrier is DQPSK, DBPSK and CCK.The maximum wireless signal rate of 802.11b is 54Mbps in the 2.4GHz frequency — the same wireless frequency as 802.11b. The EUT also offers four Ethernet ports to support multiple computers.

The advanced wireless technology built into the EUT offers data transfer speeds with a maximum wireless signal rate of up to 54Mbps* through its wireless channels allowing streaming videos and other high bandwidth applications, such as online gaming events, to operate without the hassle of Ethernet cables. The ability to use high bandwidth applications also makes streaming real-time programs more enjoyable and more efficient.

The device delivers Internet sharing, local area network connectivity and security in a single device. The EUT has a 10/100 WAN port for connection to Cable or xDSL modem. The four-port 10/100 Ethernet switch along with the built-in 802.11b/g wireless access point provides network connectivity to multiple machines in the Local Area Network (LAN).

The RTL 8225 is a highly integrated system-on-a-chip,embedded with a high-performance 32-bit RISC processor ,Ethernet ,and WLAN controller .It is design by Realtek especially for C-Media Wi-Sonic network audio solution with the accelerators.

The C-Media's Wi-Sonic is the industry's first multi-channel wireless network audio turnkey solution, designed to connect PC or PDA audio to existing speakers, stereos or home theatre systems through a standard wireless 802.11x Wi-Fi or wired Ethernet network. Wi-Sonic allows your customers to play their content where they want with unprecedented convenience. With the C-Media Network Audio Driver (NAD) installed on the PC/Notebook/PDA with a Wi-Fi connection, all audio on the PC or music library on the PDA can be played via PCM, AC-3, or DTS format to the Wi-Sonic audio receiver.

The RTL8201CP is a single-chip/single-port PHY ceiver with an MII(Media Independent Interface)/SNI(Serial Network Interface).It implements all 10/100M Ethernet Physical-layer functions including the Physical Coding Sublayer (PCS),Physical Medium Attachment(PMA),Twisted Pair Physical Medium Dependent Sublayer (TP-PMD),With an auto crossover detection unction,10Base-Tx Encoder/Decoder,and Twisted-Pair Media Access Unit(TPMAU).

A PECL (Pseudo Emitter Coupled Logic) interface is supported to connect with an external 100Base-FX fiber optical transceiver. The chip utilizes an advanced CMOS Process to meet low voltage and low power requirements. With on-chip DSP (Digital Signal Processing) technology, the chip provides excellent performance under all operating conditions.

The RTL8201CP can be used for applications such as those for a Network Interface Adapter, MAU(Media Access Unit),CNR (Communication and Network Riser),ACR (Advanced Communication Riser),an Ethernet hub ,and an Ethernet switch, In addition, it can be used in any embedded system with an Ethernet MAC that needs a UTP physical connection or Fiber PECL interface to an external 100Base-FX optical transceiver module.

The Wi-Sonic turnkey solution consists of Wi-Sonic SOC (RTL8722), PCI Sound Chip (CMI8769), RF transceiver (RTL8225), Ethernet PHY (RTL8201) or Switch (RTL8305), CMT2806-XXX MCU, firmware/SDK kit, and versatile Network Audio Driver for PC Windows 2K and XP, or Windows Pocket PC or Mobile Edition on PDA/PDA Phones. The Wi-Sonic™ network Audio driver currently supports Dolby Digital Live 5.1 Encoders, Dolby Pro-Logic IIx, Dolby Headphone, Dolby Virtual Speakers, and DTS Connect (DTS Interactive 5.1 Encoder and DTS Neo :PC) technologies for options. Wi-Sonic™ audio receiver can also provide standard 802.11x Wi-Fi Access Point or Router functionality, which depends on customer design and product positioning.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

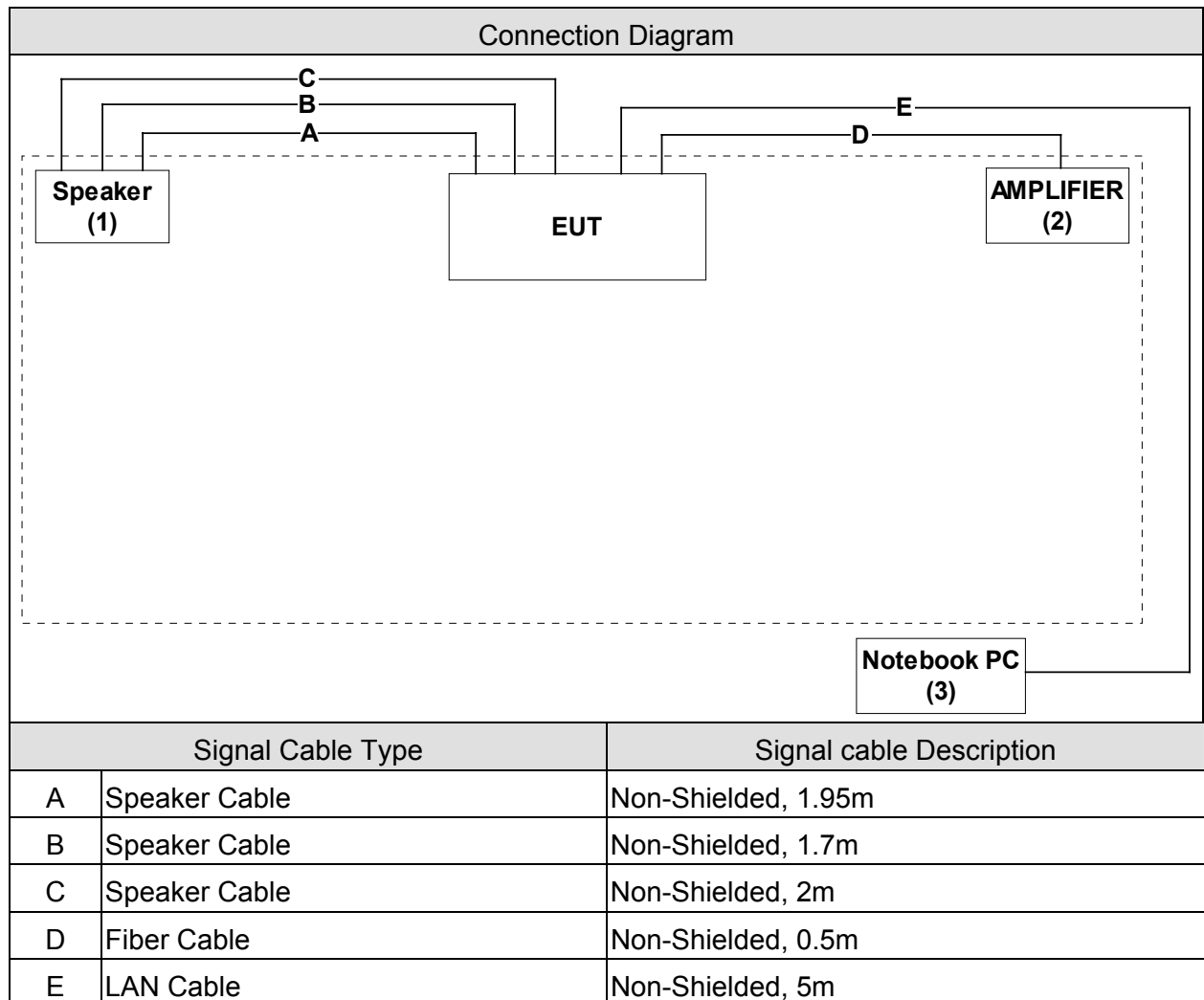
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

1.4. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Speaker	YAMADA	P6600	K4016641	DoC	Non-Shielded, 1.5m
2	AMPLIFIER	CISUMDIA	A-330	N/A	DoC	Non-Shielded, 1.8m
3	Notebook PC	DELL	LATITUDE D400	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5
2	Turn on the power of all equipment.
3	Notebook PC reads data from disk.
4	Data will be transmitting through EUT.
5	The transmitting status will be shown on the monitor.
6	Repeat the above procedure (4) to (5)

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313

ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2007



Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Peak Power Output

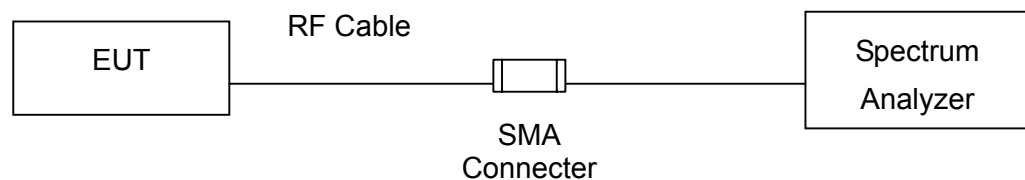
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2007
2	No.1 OATS			Sep., 2007

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

The maximum peak power shall be less 1 Watt.

2.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2006

2.5. Uncertainty

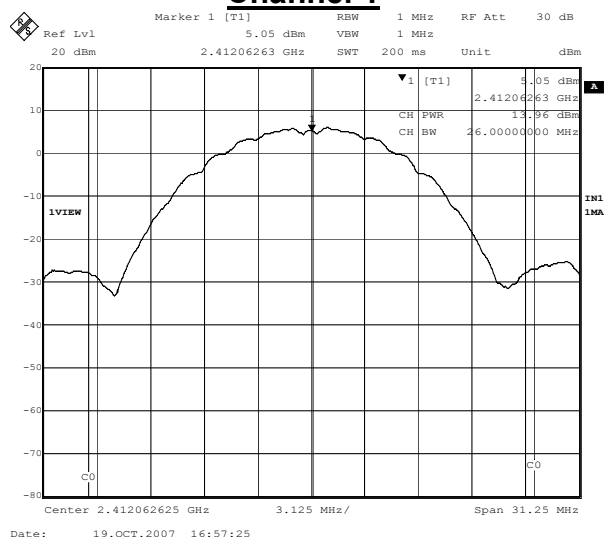
The measurement uncertainty is defined as ± 1.27 dB.

2.6. Test Result

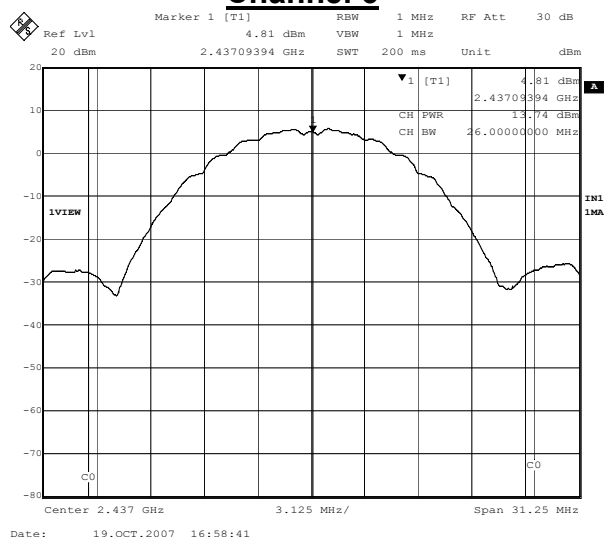
Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/19	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	13.96	1Watt= 30 dBm	Pass
6	2437	13.74	1Watt= 30 dBm	Pass
11	2462	13.01	1Watt= 30 dBm	Pass

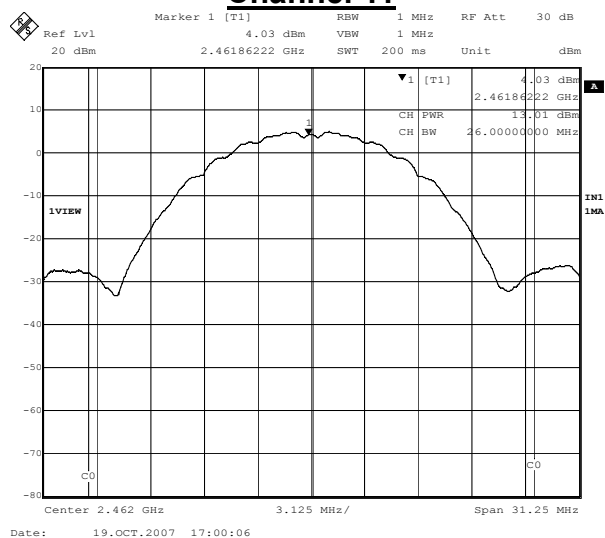
Channel 1



Channel 6



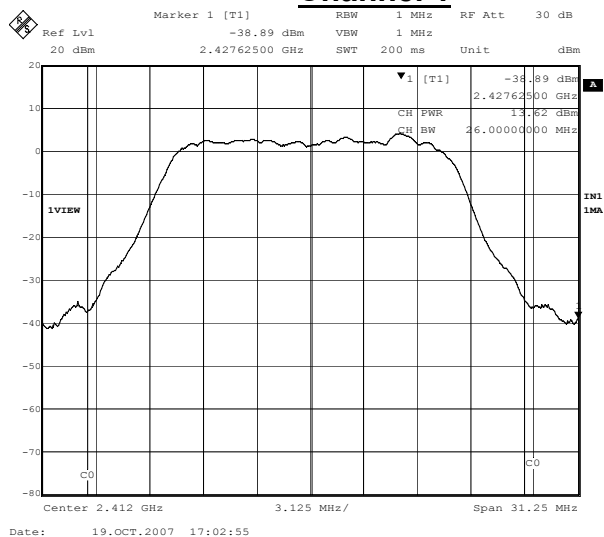
Channel 11



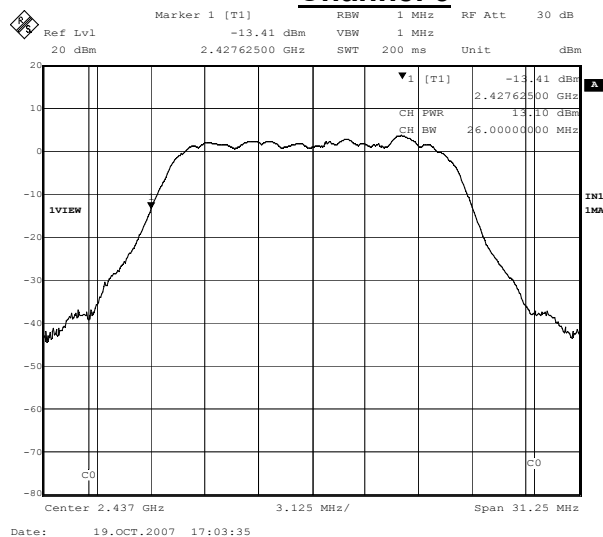
Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/19	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	13.62	1Watt= 30 dBm	Pass
6	2437	13.10	1Watt= 30 dBm	Pass
11	2462	12.54	1Watt= 30 dBm	Pass

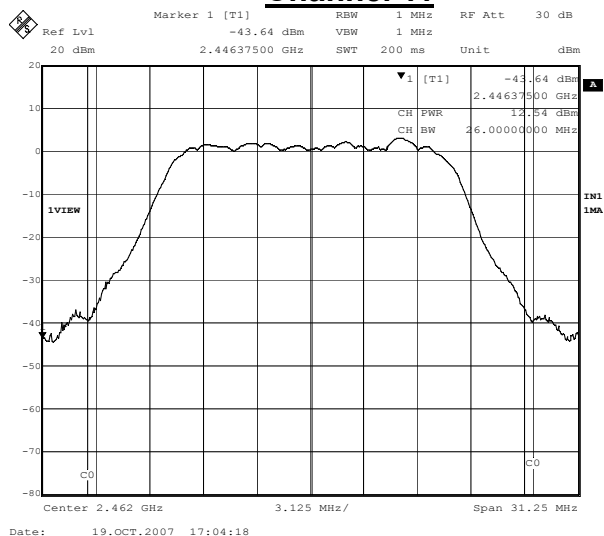
Channel 1



Channel 6



Channel 11



3. Conducted Emission

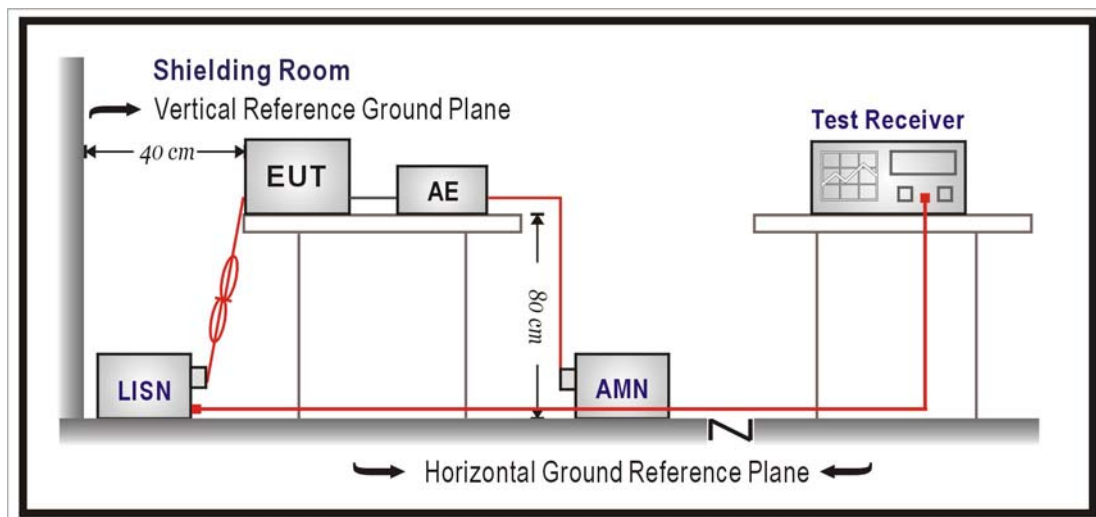
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/018	Sep., 2007	
2	Artificial Mains Network	R & S	ENV4200/848411/10	Feb., 2007	Peripherals
3	LISN	R & S	ESH3-Z5/825562/002	Feb., 2007	EUT
4	Pulse Limiter	R & S	ESH3-Z2/357.8810.52	Feb., 2007	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

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

Remarks : In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

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

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

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

3.5. Test Specification

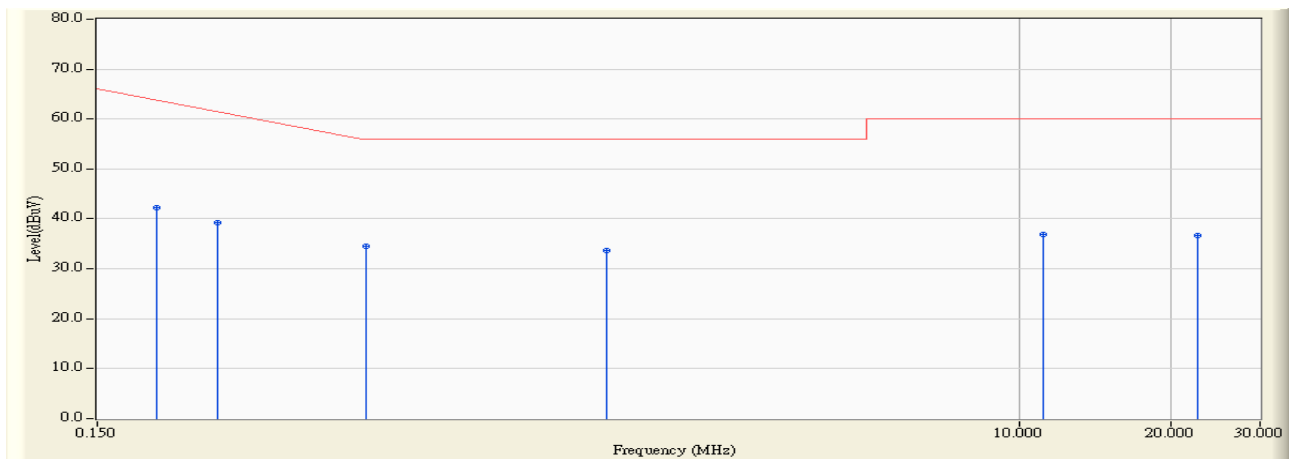
According to FCC Part 15 Subpart C Paragraph 15.207: 2005

3.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

3.7. Test Result

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:27
Limit : CISPR_B_00M_QP	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line1
Power : AC 120 V/ 60 Hz	Note : B-TX

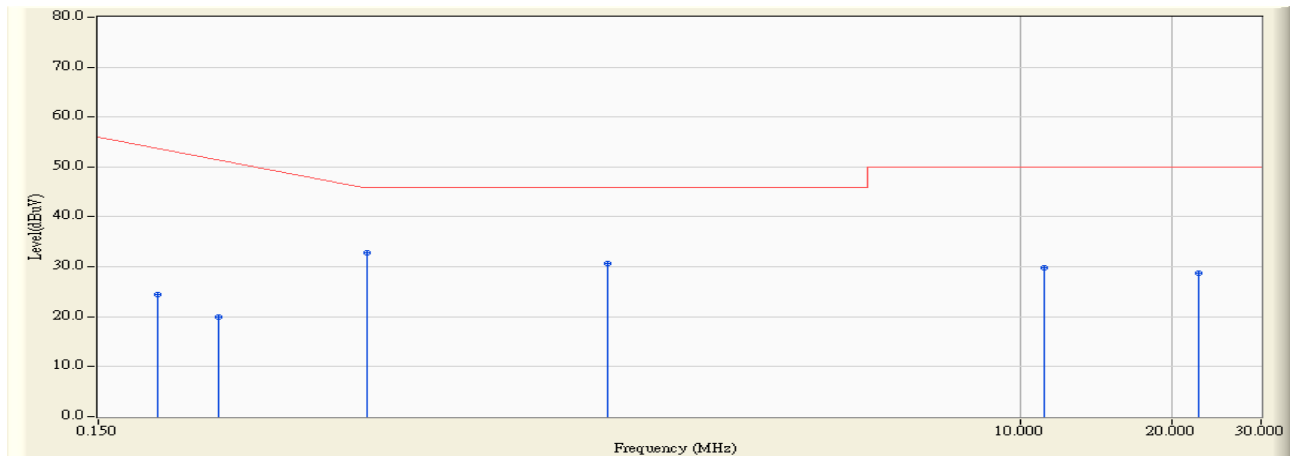


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	0.200	41.960	42.160	-22.497	64.657	QUASIPeAK
2		0.259	0.200	39.130	39.330	-23.556	62.886	QUASIPeAK
3	*	0.509	0.210	34.220	34.430	-21.570	56.000	QUASIPeAK
4		1.529	0.270	33.350	33.620	-22.380	56.000	QUASIPeAK
5		11.197	0.720	36.270	36.990	-23.010	60.000	QUASIPeAK
6		22.580	1.250	35.520	36.770	-23.230	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:27
Limit : CISPR_B_00M_AV	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line1
Power : AC 120 V/ 60 Hz	Note : B-TX

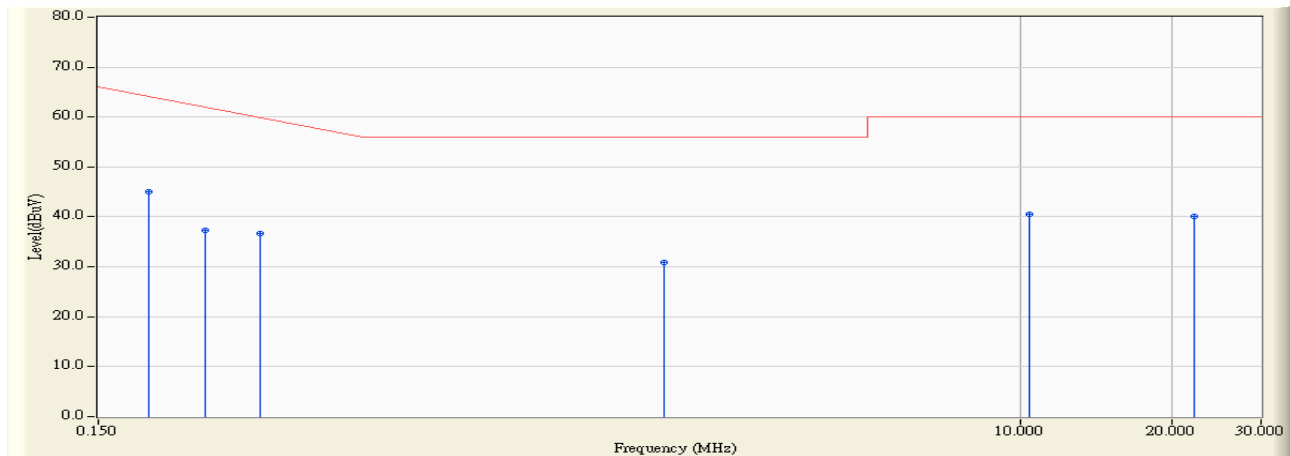


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	0.200	24.190	24.390	-30.267	54.657	AVERAGE
2		0.259	0.200	19.640	19.840	-33.046	52.886	AVERAGE
3	*	0.509	0.210	32.640	32.850	-13.150	46.000	AVERAGE
4		1.529	0.270	30.360	30.630	-15.370	46.000	AVERAGE
5		11.197	0.720	29.060	29.780	-20.220	50.000	AVERAGE
6		22.580	1.250	27.520	28.770	-21.230	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:31
Limit : CISPR_B_00M_QP	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line2
Power : AC 120 V/ 60 Hz	Note : B-TX

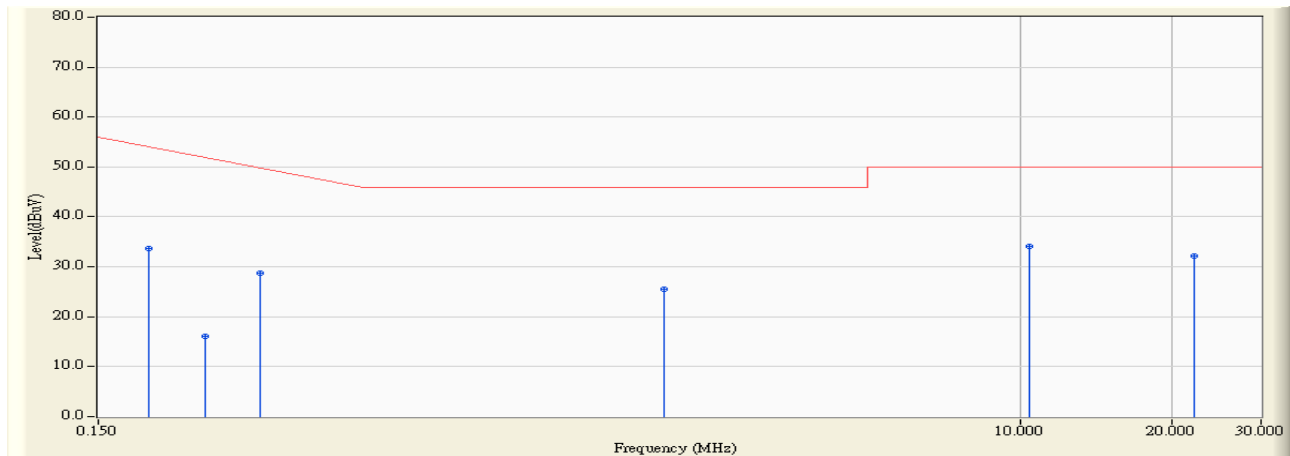


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	0.200	44.810	45.010	-19.876	64.886	QUASIPeAK
2		0.244	0.200	37.050	37.250	-26.064	63.314	QUASIPeAK
3		0.314	0.200	36.540	36.740	-24.574	61.314	QUASIPeAK
4		1.974	0.220	30.700	30.920	-25.080	56.000	QUASIPeAK
5	*	10.439	0.560	39.970	40.530	-19.470	60.000	QUASIPeAK
6		22.087	0.940	39.160	40.100	-19.900	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:31
Limit : CISPR_B_00M_AV	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line2
Power : AC 120 V/ 60 Hz	Note : B-TX

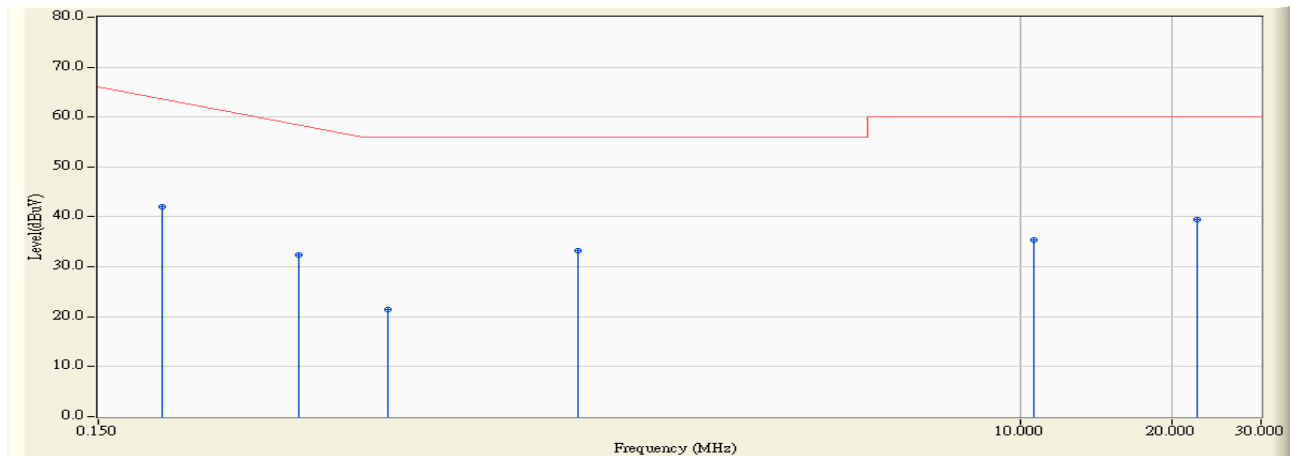


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	0.200	33.450	33.650	-21.236	54.886	AVERAGE
2		0.244	0.200	15.790	15.990	-37.324	53.314	AVERAGE
3		0.314	0.200	28.600	28.800	-22.514	51.314	AVERAGE
4		1.974	0.220	25.230	25.450	-20.550	46.000	AVERAGE
5	*	10.439	0.560	33.440	34.000	-16.000	50.000	AVERAGE
6		22.087	0.940	31.210	32.150	-17.850	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:36
Limit : CISPR_B_00M_QP	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line1
Power : AC 120 V/ 60 Hz	Note : G-TX

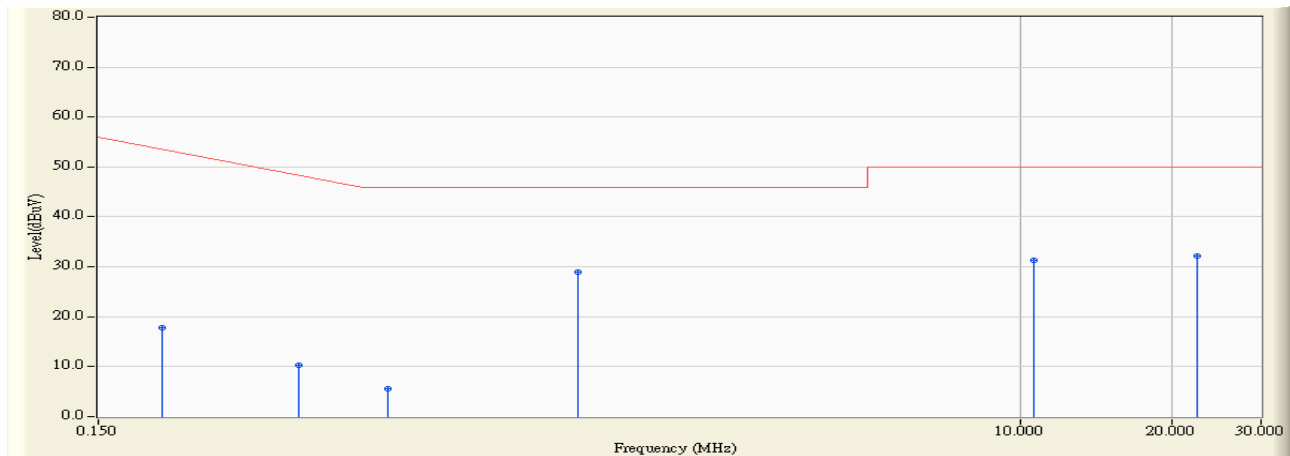


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.200	41.920	42.120	-22.423	64.543	QUASIPeAK
2		0.373	0.200	32.190	32.390	-27.239	59.629	QUASIPeAK
3		0.560	0.210	21.290	21.500	-34.500	56.000	QUASIPeAK
4		1.337	0.243	32.940	33.183	-22.817	56.000	QUASIPeAK
5		10.627	0.680	34.690	35.370	-24.630	60.000	QUASIPeAK
6	*	22.455	1.250	38.270	39.520	-20.480	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:36
Limit : CISPR_B_00M_AV	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line1
Power : AC 120 V/ 60 Hz	Note : G-TX

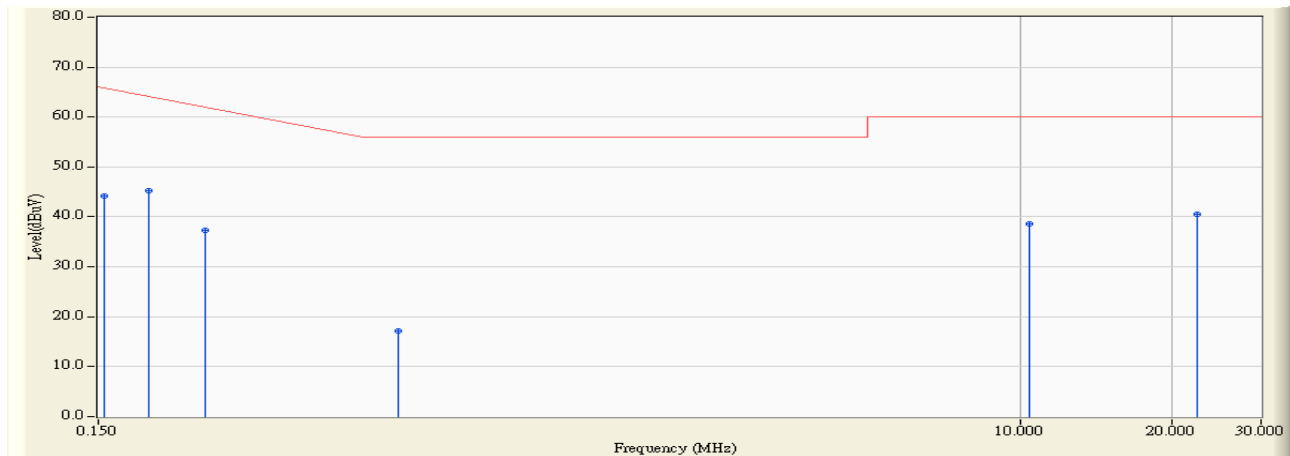


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.200	17.560	17.760	-36.783	54.543	AVERAGE
2		0.373	0.200	10.120	10.320	-39.309	49.629	AVERAGE
3		0.560	0.210	5.310	5.520	-40.480	46.000	AVERAGE
4	*	1.337	0.243	28.810	29.053	-16.947	46.000	AVERAGE
5		10.627	0.680	30.530	31.210	-18.790	50.000	AVERAGE
6		22.455	1.250	31.000	32.250	-17.750	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:42
Limit : CISPR_B_00M_QP	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line2
Power : AC 120 V/ 60 Hz	Note : G-TX

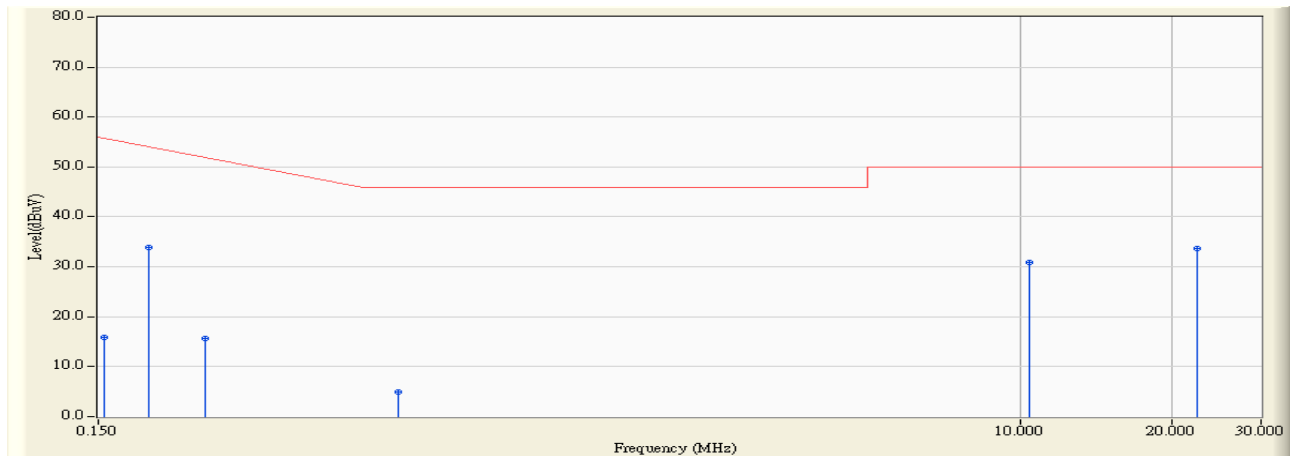


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	0.200	44.010	44.210	-21.676	65.886	QUASIPeAK
2		0.189	0.200	45.090	45.290	-19.596	64.886	QUASIPeAK
3		0.244	0.200	37.030	37.230	-26.084	63.314	QUASIPeAK
4		0.588	0.210	16.970	17.180	-38.820	56.000	QUASIPeAK
5		10.439	0.560	38.100	38.660	-21.340	60.000	QUASIPeAK
6	*	22.459	0.950	39.680	40.630	-19.370	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/10/22 - 11:42
Limit : CISPR_B_00M_AV	Margin : 0
EUT : AIRLINK 101 11G WIRELESS MUSIC BRIDGE	Probe : QTK-LISN-SR2 - Line2
Power : AC 120 V/ 60 Hz	Note : G-TX



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	0.200	15.640	15.840	-40.046	55.886	AVERAGE
2		0.189	0.200	33.740	33.940	-20.946	54.886	AVERAGE
3		0.244	0.200	15.460	15.660	-37.654	53.314	AVERAGE
4		0.588	0.210	4.670	4.880	-41.120	46.000	AVERAGE
5		10.439	0.560	30.360	30.920	-19.080	50.000	AVERAGE
6	*	22.459	0.950	32.650	33.600	-16.400	50.000	AVERAGE

Note:

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

4. Radiated Emission

4.1. Test Equipment

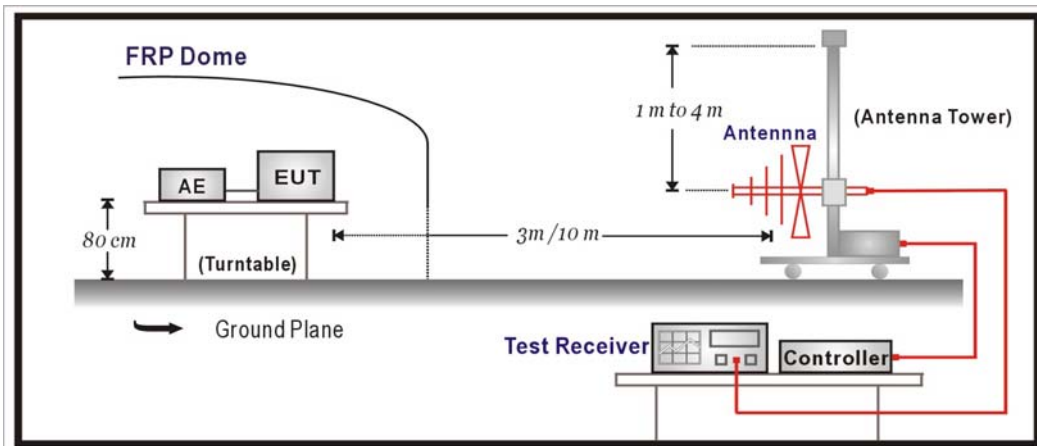
The following test equipment are used during the test:

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2007
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2007
8		No.1 OATS			Sep., 2007

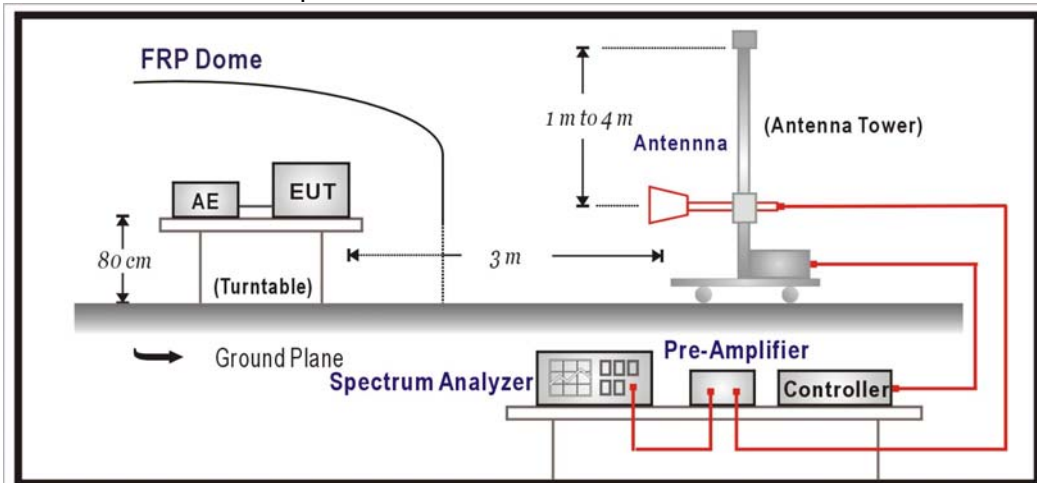
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. "N/A" Ca1.Date is used to Pre-test, not final test.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

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

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

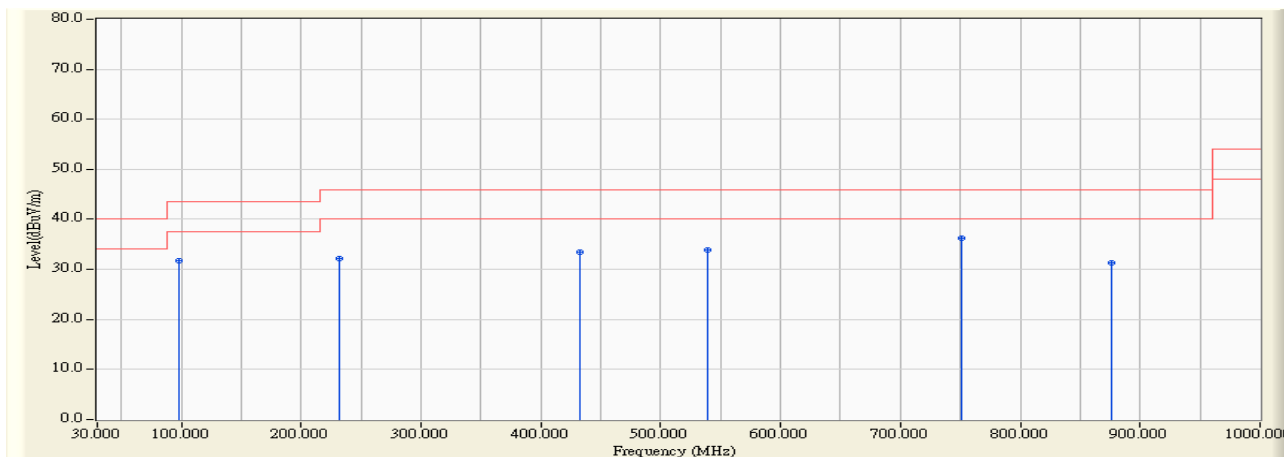
4.6. Uncertainty

The measurement uncertainty
 30MHz~1GHz as $\pm 3.19\text{dB}$
 1GHz~26.5GHz as $\pm 3.9\text{dB}$

4.7. Test Result

30MHz-1GHz Spurious

Site : Site 1	Time : 2007/10/26 - 16:12
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120 V/ 60 Hz	Note : B-TX

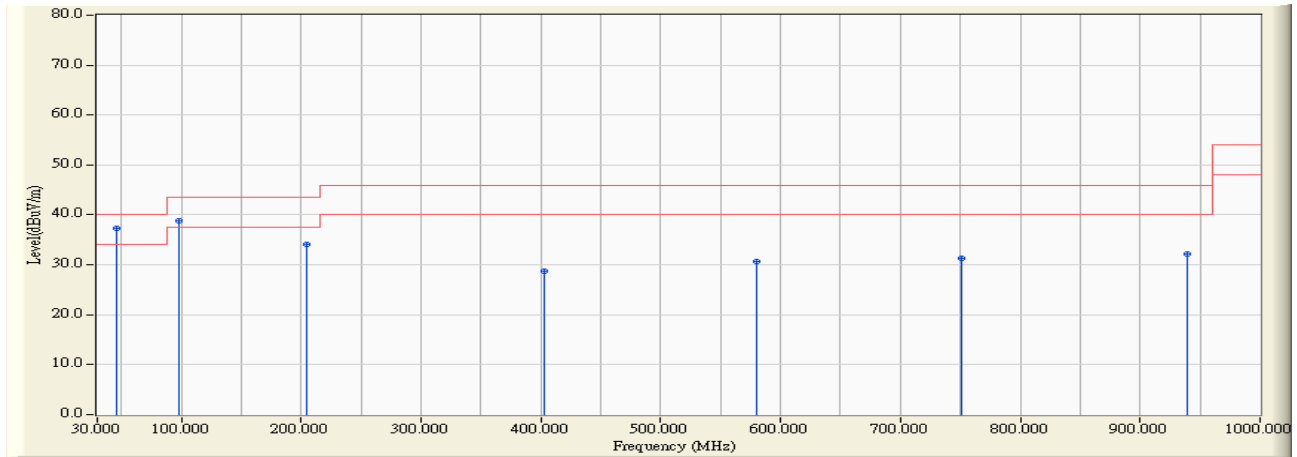


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		98.036	-81.760	113.582	31.822	-11.678	43.500	Quasi-Peak
2		232.164	-81.760	114.031	32.271	-13.729	46.000	Quasi-Peak
3		432.385	-81.760	115.190	33.430	-12.570	46.000	Quasi-Peak
4		539.299	-81.760	115.622	33.862	-12.138	46.000	Quasi-Peak
5	*	751.182	-81.760	118.061	36.301	-9.699	46.000	Quasi-Peak
6		875.591	-81.760	113.054	31.294	-14.706	46.000	Quasi-Peak

Note:

1. All Reading Levels below 1GHz are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Site 1	Time : 2007/10/26 - 16:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120 V/ 60 Hz	Note : B-TX

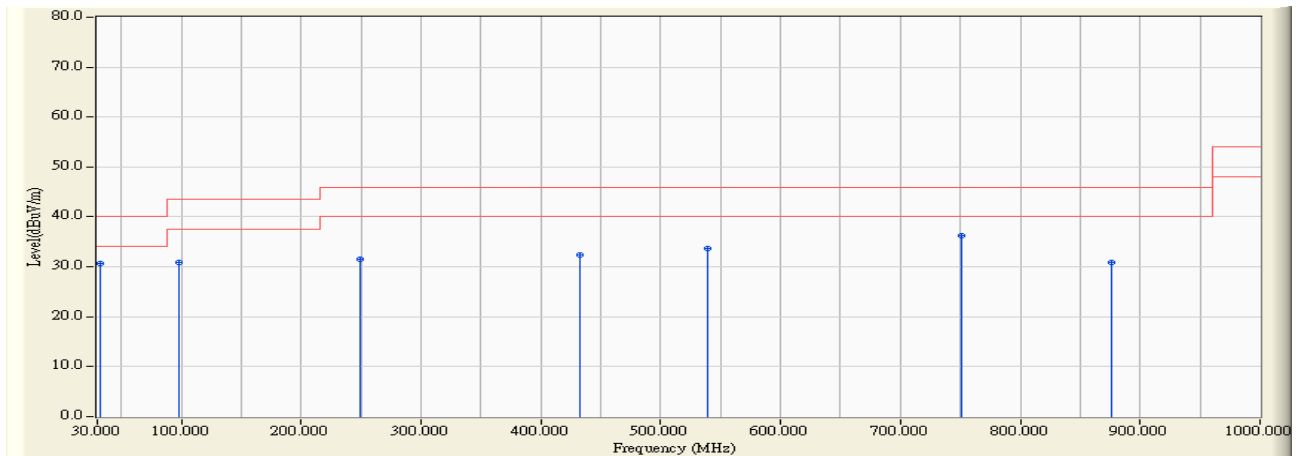


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	45.551	-81.760	119.033	37.273	-2.727	40.000	Quasi-Peak
2		98.036	-81.760	120.524	38.764	-4.736	43.500	Quasi-Peak
3		204.950	-81.760	115.789	34.029	-9.471	43.500	Quasi-Peak
4		403.226	-81.760	110.552	28.792	-17.208	46.000	Quasi-Peak
5		580.120	-81.760	112.435	30.675	-15.325	46.000	Quasi-Peak
6		751.182	-81.760	113.144	31.384	-14.616	46.000	Quasi-Peak
7		939.740	-81.760	113.981	32.221	-13.779	46.000	Quasi-Peak

Note:

1. All Reading Levels below 1GHz are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Site 1	Time : 2007/10/26 - 16:16
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120 V/ 60 Hz	Note : G-TX

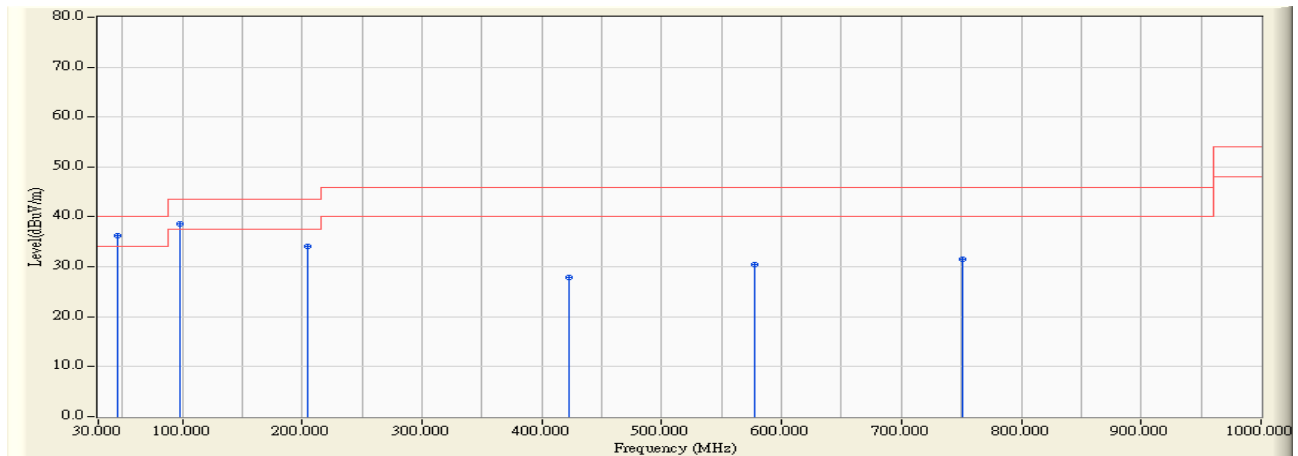


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.944	-81.760	112.447	30.687	-9.313	40.000	Quasi-Peak
2		98.036	-81.760	112.589	30.829	-12.671	43.500	Quasi-Peak
3		249.659	-81.760	113.386	31.626	-14.374	46.000	Quasi-Peak
4		432.385	-81.760	114.159	32.399	-13.601	46.000	Quasi-Peak
5		539.299	-81.760	115.388	33.628	-12.372	46.000	Quasi-Peak
6		751.182	-81.760	117.927	36.167	-9.833	46.000	Quasi-Peak
7		875.591	-81.760	112.631	30.871	-15.129	46.000	Quasi-Peak

Note:

1. All Reading Levels below 1GHz are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Site 1	Time : 2007/10/26 - 16:16
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120 V/ 60 Hz	Note : G-TX



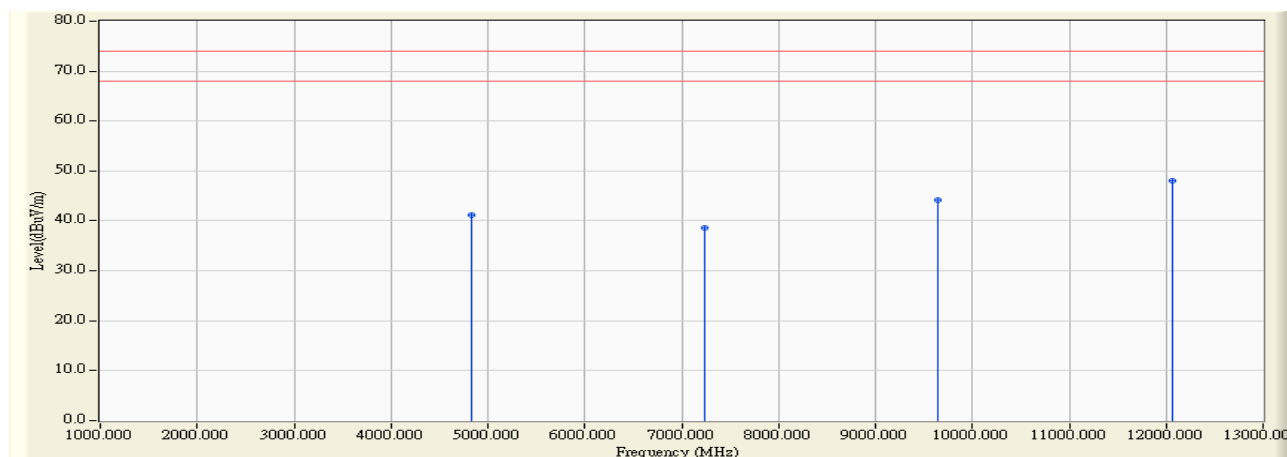
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	45.551	-81.760	118.102	36.342	-3.658	40.000	Quasi-Peak
2		98.036	-81.760	120.302	38.542	-4.958	43.500	Quasi-Peak
3		204.950	-81.760	115.898	34.138	-9.362	43.500	Quasi-Peak
4		422.665	-81.760	109.558	27.798	-18.202	46.000	Quasi-Peak
5		578.176	-81.760	112.221	30.461	-15.539	46.000	Quasi-Peak
6		751.182	-81.760	113.337	31.577	-14.423	46.000	Quasi-Peak

Note:

1. All Reading Levels below 1GHz are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Harmonic & Spurious:

Site : Site 1	Time : 2007/10/22 - 17:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - HORIZONTAL
Power : AC 120V / 60 Hz	Note : TX-B-CH1-1Mbps

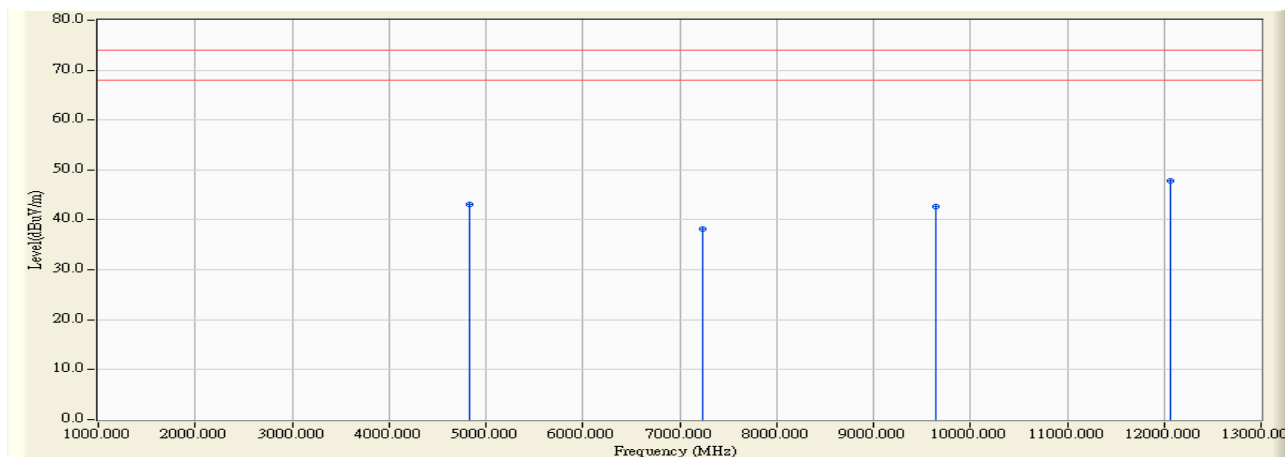


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.060	-3.215	44.370	41.155	-32.845	74.000	54.00	PEAK
2		7236.090	-0.311	38.850	38.539	-35.461	74.000	54.00	PEAK
3		9647.680	4.643	39.570	44.213	-29.787	74.000	54.00	PEAK
4	*	12060.013	10.666	37.420	48.086	-25.914	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/10/22 - 17:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - VERTICAL
Power : AC 120V / 60 Hz	Note : TX-B-CH1-1Mbps

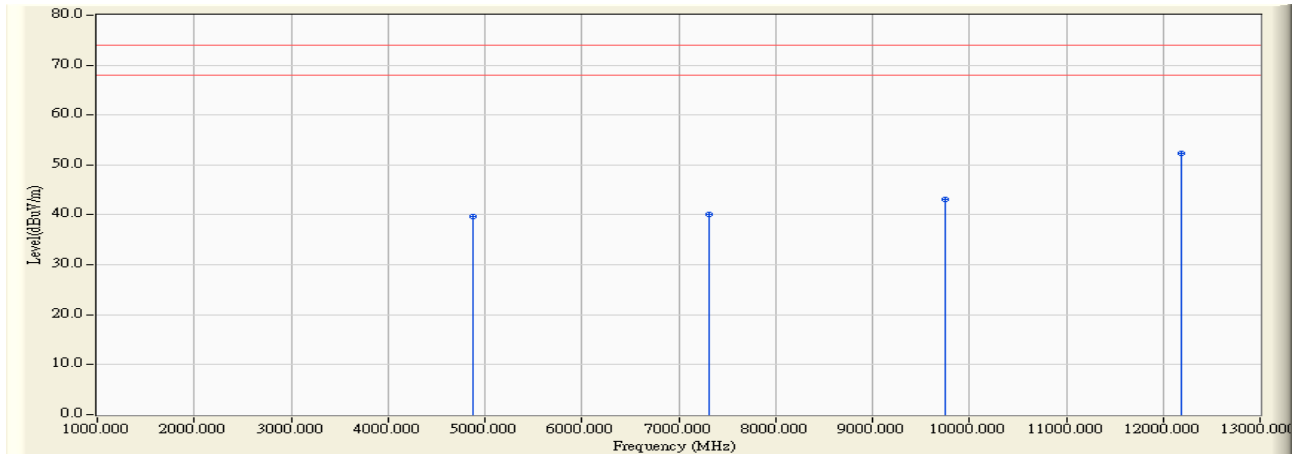


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4823.980	-2.739	45.760	43.022	-30.978	74.000	54.00	PEAK
2		7236.120	-0.311	38.560	38.249	-35.751	74.000	54.00	PEAK
3		9647.900	4.640	38.090	42.730	-31.270	74.000	54.00	PEAK
4	*	12060.370	10.696	37.110	47.807	-26.193	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/10/22 - 17:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - HORIZONTAL
Power : AC 120V / 60 Hz	Note : TX-B-CH6-1Mbps

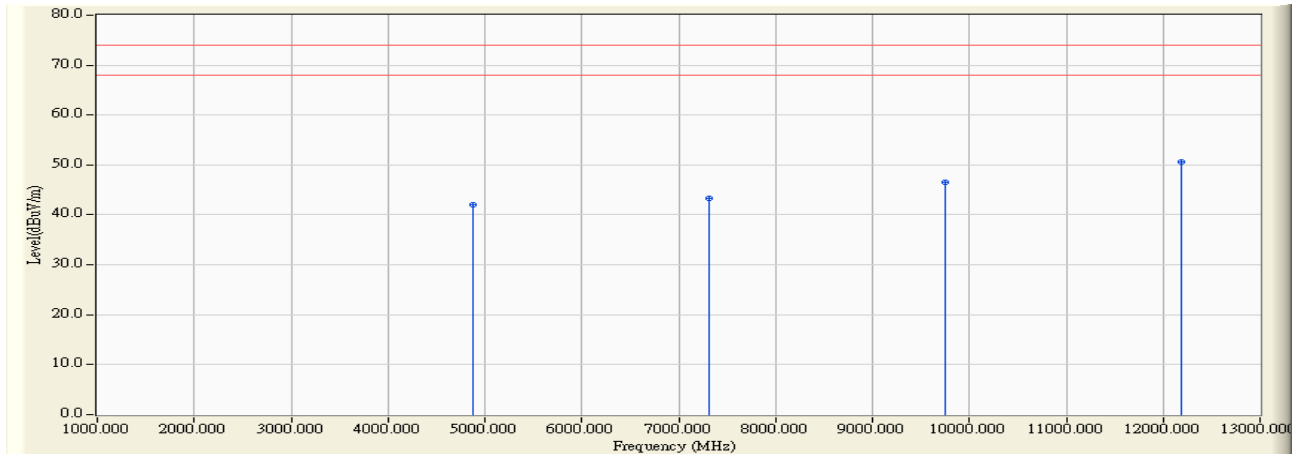


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.950	-2.442	42.130	39.687	-34.313	74.000	54.00	PEAK
2		7310.930	1.050	39.090	40.139	-33.861	74.000	54.00	PEAK
3		9748.090	4.765	38.360	43.125	-30.875	74.000	54.00	PEAK
4	*	12185.150	14.806	37.560	52.366	-21.634	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/10/22 - 18:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - VERTICAL
Power : AC 120V / 60 Hz	Note : TX-B-CH6-1Mbps

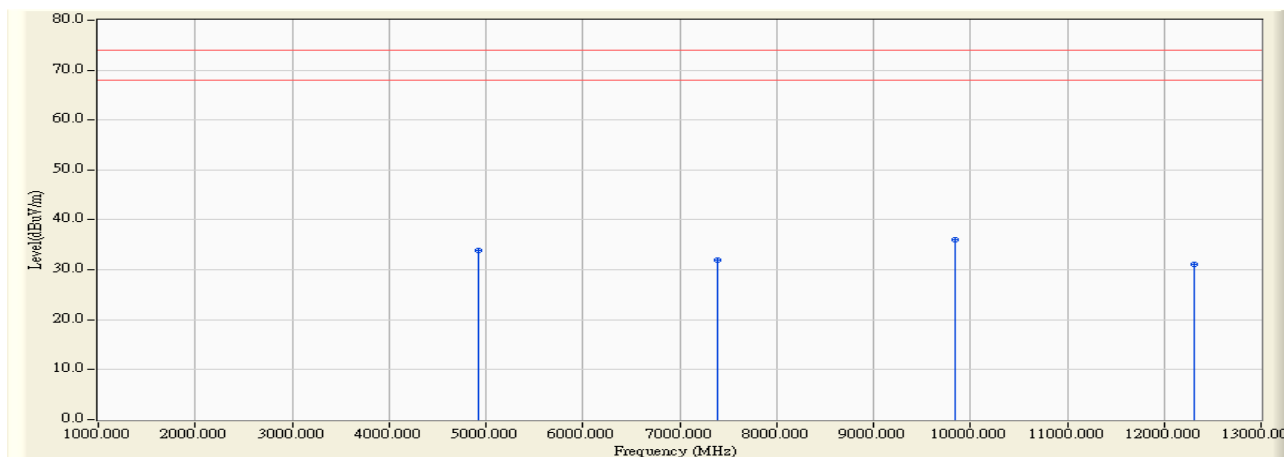


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.980	-1.837	43.790	41.953	-32.047	74.000	54.00	PEAK
2		7310.930	3.811	39.490	43.301	-30.699	74.000	54.00	PEAK
3		9748.060	8.172	38.300	46.472	-27.528	74.000	54.00	PEAK
4	*	12185.060	14.027	36.670	50.697	-23.303	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/10/24 - 10:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - HORIZONTAL
Power : AC 120V / 60 Hz	Note : TX-B-CH11-1Mbps

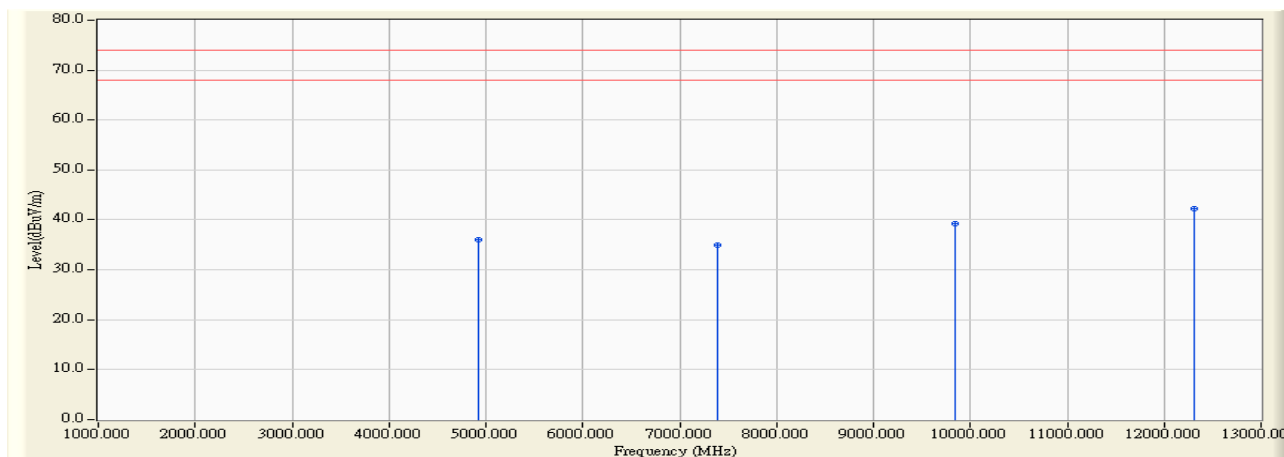


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.940	-1.744	35.540	33.796	-40.204	74.000	54.00	PEAK
2		7385.870	2.396	29.460	31.855	-42.145	74.000	54.00	PEAK
3	*	9847.880	5.661	30.430	36.091	-37.909	74.000	54.00	PEAK
4		12309.910	2.500	28.680	31.180	-42.820	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/10/24 - 11:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_CB4_1-18G(+HP8449B) - VERTICAL
Power : AC 120V / 60 Hz	Note : TX-B-CH11-1Mbps

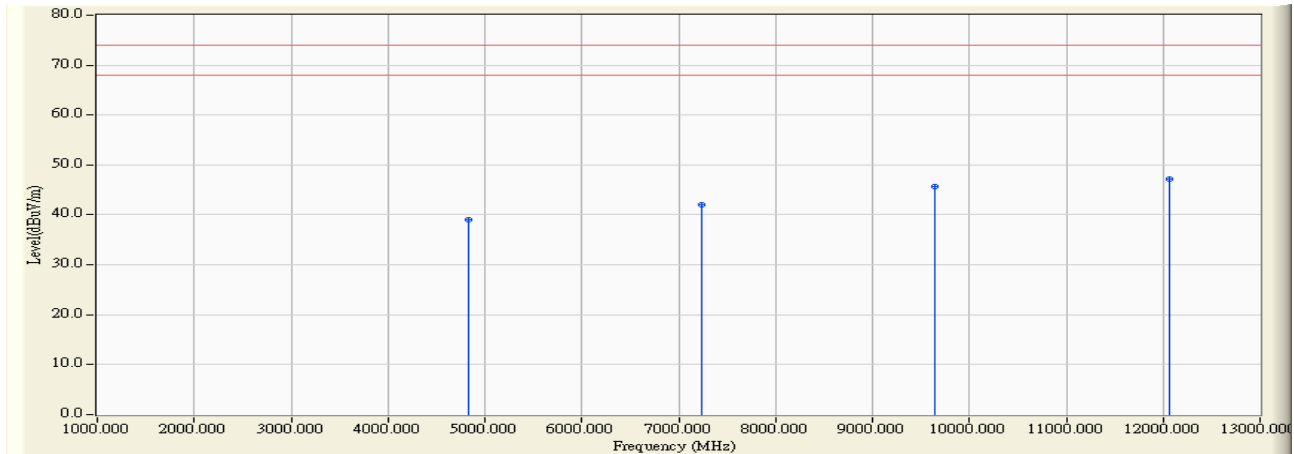


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.960	-1.190	37.170	35.980	-38.020	74.000	54.00	PEAK
2		7385.980	3.658	31.360	35.018	-38.982	74.000	54.00	PEAK
3		9847.910	9.196	30.040	39.236	-34.764	74.000	54.00	PEAK
4	*	12309.910	13.061	29.290	42.351	-31.649	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 14:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : TX-G-CH1-54Mbps

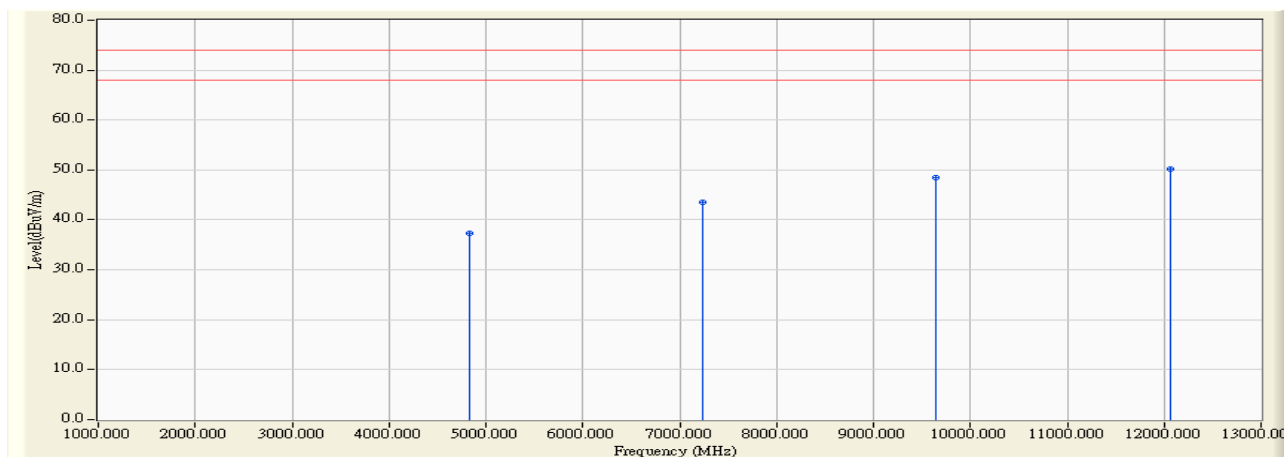


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4825.640	3.745	35.320	39.065	-34.935	74.000	54.00	PEAK
2		7236.750	8.727	33.390	42.117	-31.883	74.000	54.00	PEAK
3		9646.340	12.706	33.080	45.786	-28.214	74.000	54.00	PEAK
4	*	12061.350	15.172	32.050	47.221	-26.779	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 14:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : TX-G-CH1-54Mbps

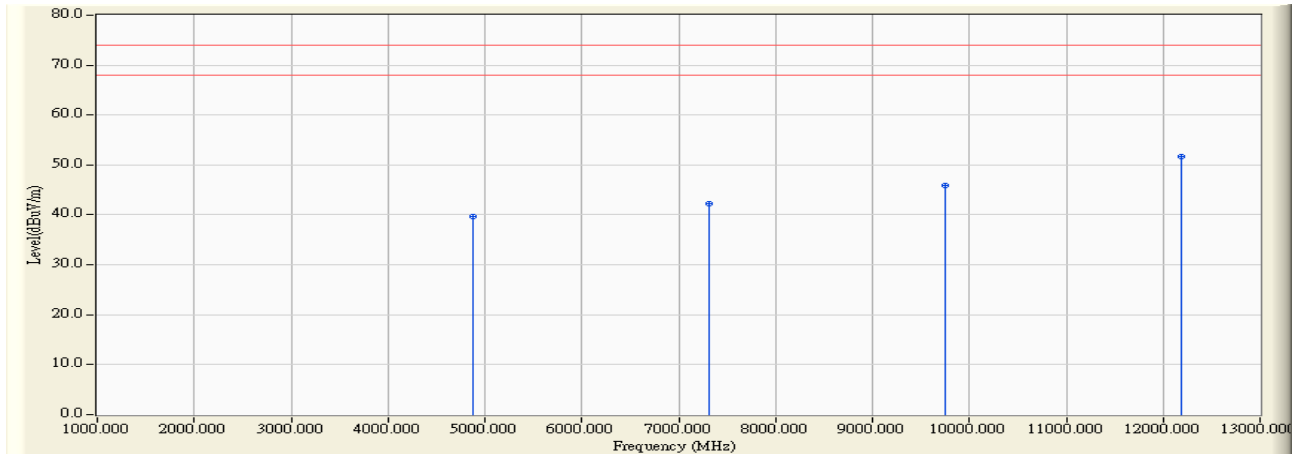


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.150	33.663	35.380	37.362	-36.638	74.000	54.00	PEAK
2		7237.050	40.580	34.790	43.518	-30.482	74.000	54.00	PEAK
3		9648.150	46.091	33.780	48.487	-25.513	74.000	54.00	PEAK
4	*	12059.840	46.956	32.990	50.212	-23.788	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 15:00
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : TX-G-CH6-54Mbps

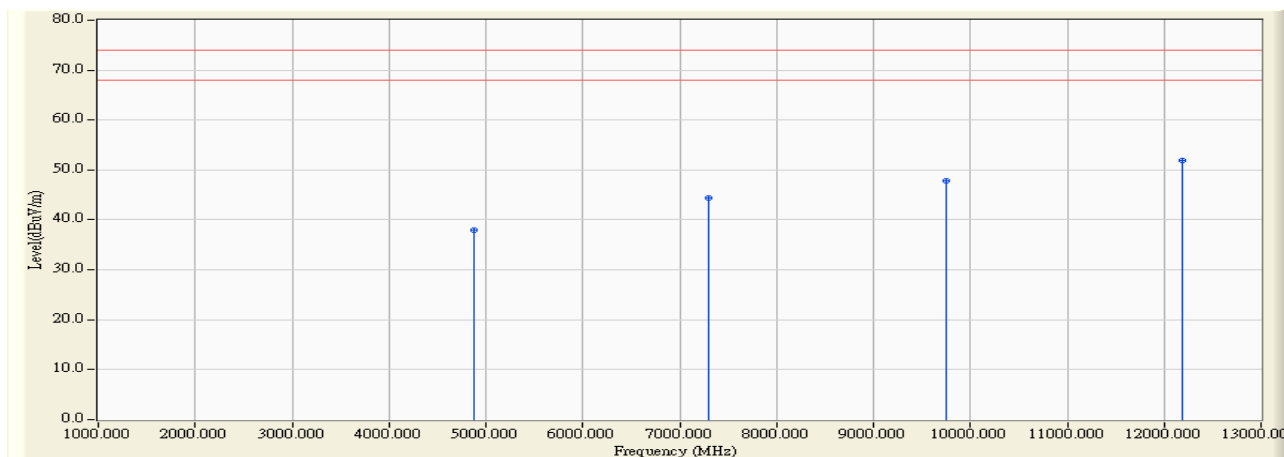


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.240	4.082	35.550	39.632	-34.368	74.000	54.00	PEAK
2		7311.450	8.845	33.330	42.175	-31.825	74.000	54.00	PEAK
3		9747.840	13.132	32.840	45.972	-28.028	74.000	54.00	PEAK
4	*	12184.540	18.995	32.670	51.665	-22.335	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 15:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : TX-G-CH6-54Mbps

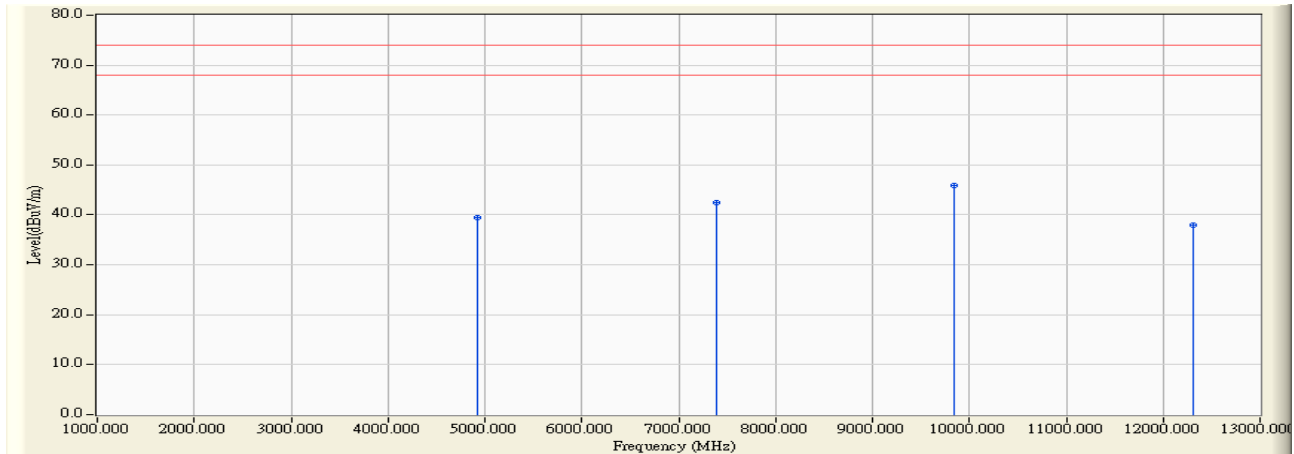


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.540	2.429	35.560	37.990	-36.010	74.000	54.00	PEAK
2		7300.920	8.829	35.510	44.339	-29.661	74.000	54.00	PEAK
3		9747.840	15.132	32.720	47.852	-26.148	74.000	54.00	PEAK
4	*	12183.040	19.352	32.450	51.801	-22.199	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 15:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60HZ	Note : TX-G-CH11-54Mbps

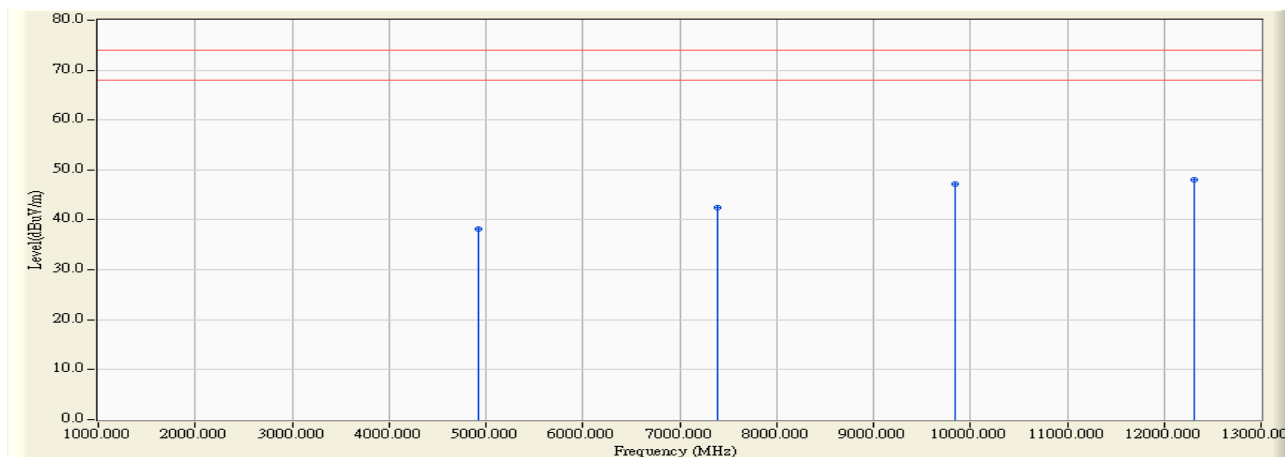


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.840	4.381	35.090	39.471	-34.529	74.000	54.00	AVERAGE
2		7386.450	8.943	33.620	42.563	-31.437	74.000	54.00	AVERAGE
3	*	9849.350	13.849	32.130	45.978	-28.022	74.000	54.00	AVERAGE
4		12310.150	6.457	31.450	37.907	-36.093	74.000	54.00	AVERAGE

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/07/10 - 15:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : AIRLINK101 802.11g Wireless Music Bridge	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60HZ	Note : TX-G-CH11-54Mbps



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.840	2.833	35.280	38.113	-35.887	74.000	54.00	PEAK
2		7386.750	8.944	33.560	42.504	-31.496	74.000	54.00	PEAK
3		9848.150	15.355	31.830	47.185	-26.815	74.000	54.00	PEAK
4	*	12310.450	17.894	30.110	48.004	-25.996	74.000	54.00	PEAK

Note:

1. All Reading Levels above 1GHz are Peak and Average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

5. Band Edge

5.1. Test Equipment

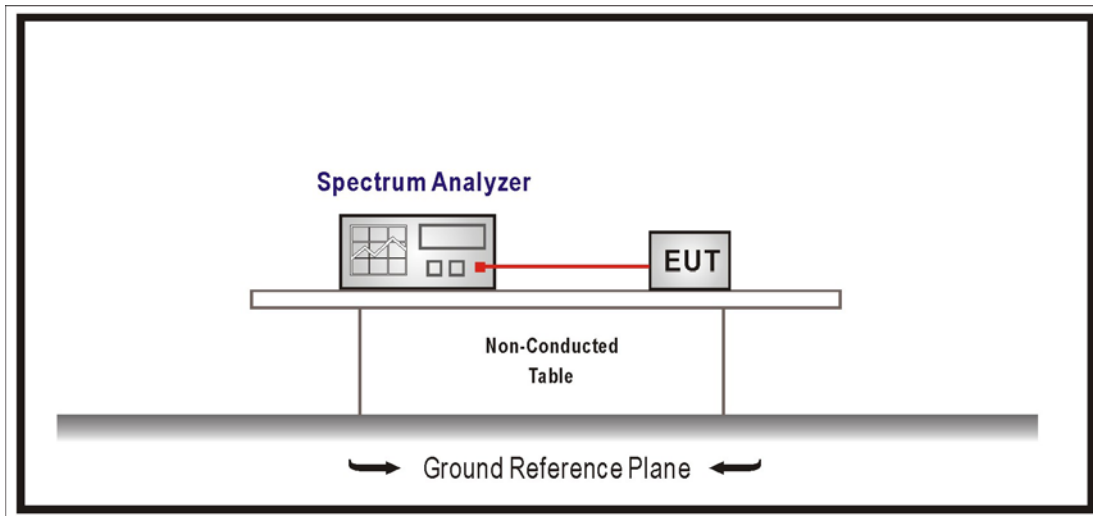
The following test equipment are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2007
2	No.1 OATS				Sep., 2007
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2007
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2007
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2007
7	No.1 OATS				Sep., 2007

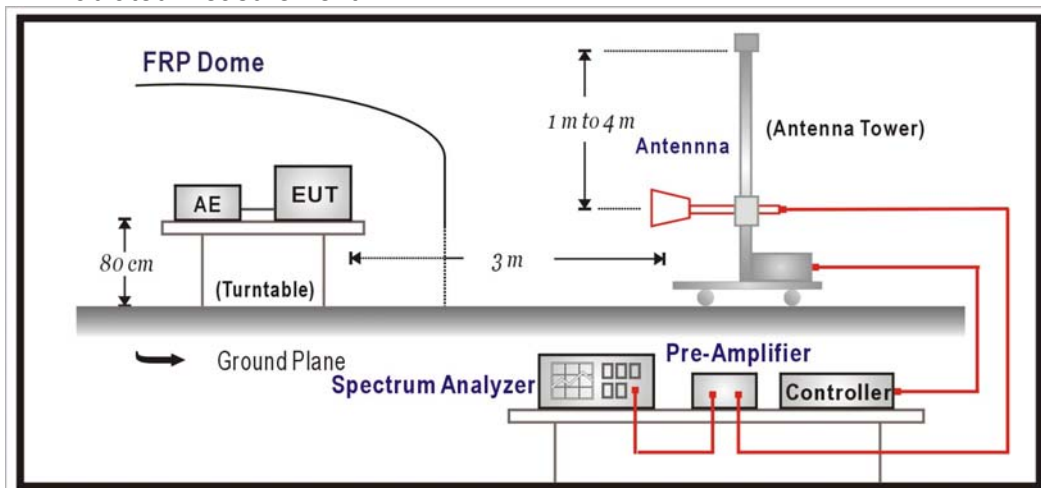
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

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

5.4. Test Procedure

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

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

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

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

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

5.6. Uncertainty

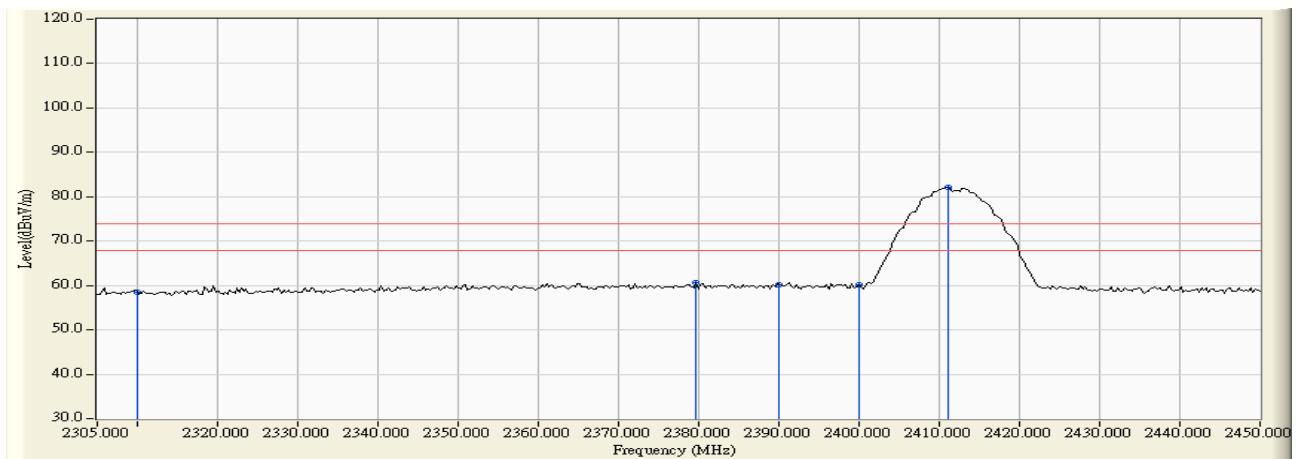
The measurement uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

Radiated is defined as $\pm 3.9\text{dB}$

5.7. Test Result

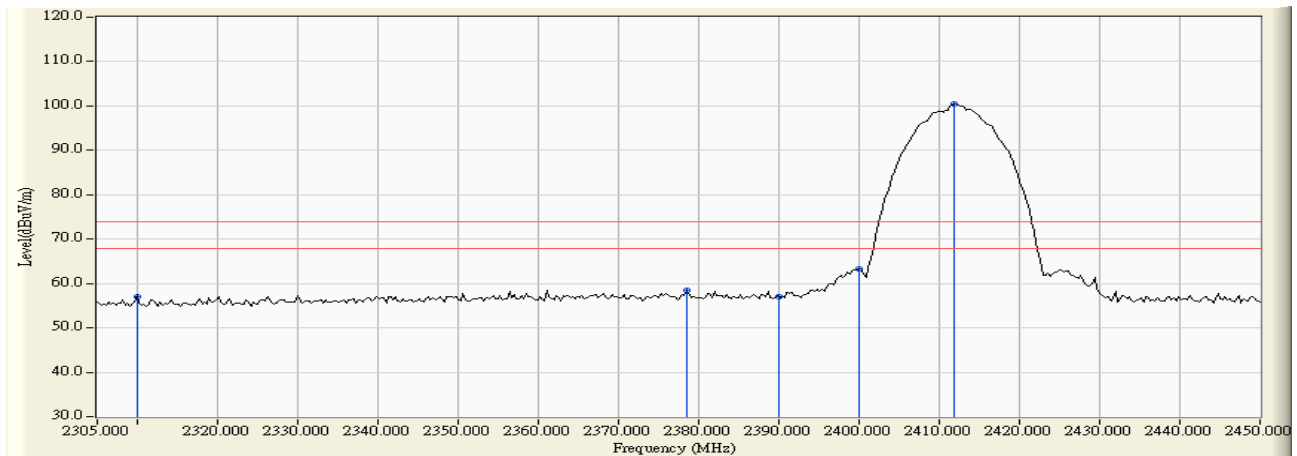
Site : CB3	Time : 2007/12/13 - 15:59
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH1-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.052	29.507	58.559	-15.441	74.000	PEAK
2	*	2379.679	29.185	31.542	60.727	-13.273	74.000	PEAK
3		2390.000	29.203	31.004	60.207	-13.793	74.000	PEAK
4		2400.000	29.221	30.895	60.116	-13.884	74.000	PEAK
5		2411.062	29.240	52.929	82.169	8.169	74.000	PEAK

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

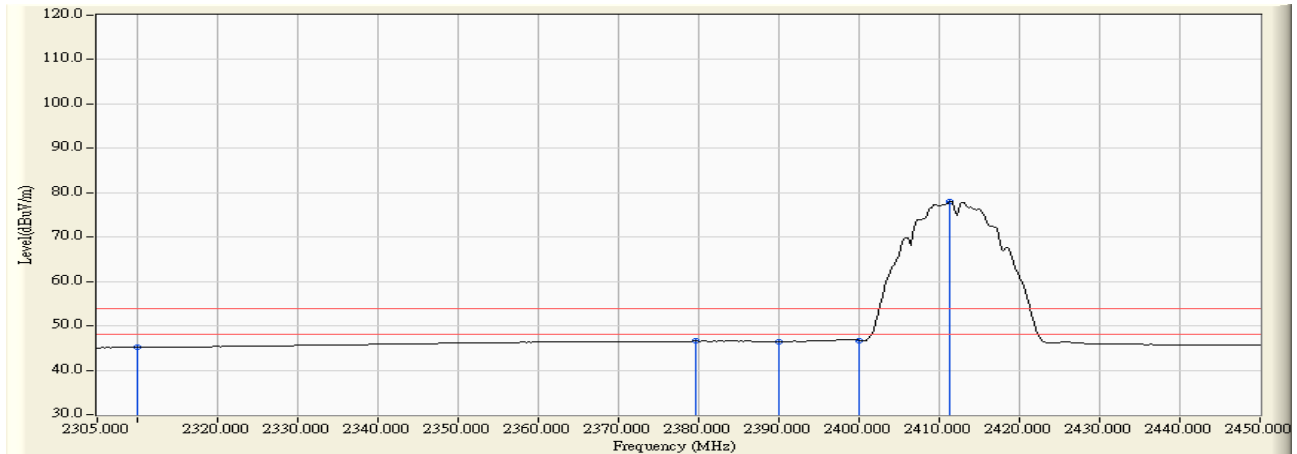
Site : CB3	Time : 2007/12/13 - 18:52
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH1-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.074	29.959	57.033	-16.967	74.000	PEAK
2	*	2378.517	27.336	31.123	58.459	-15.541	74.000	PEAK
3		2390.000	27.384	29.664	57.048	-16.952	74.000	PEAK
4		2400.000	27.422	35.763	63.184	-10.816	74.000	PEAK
5		2411.934	27.463	72.947	100.410	26.410	74.000	PEAK

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

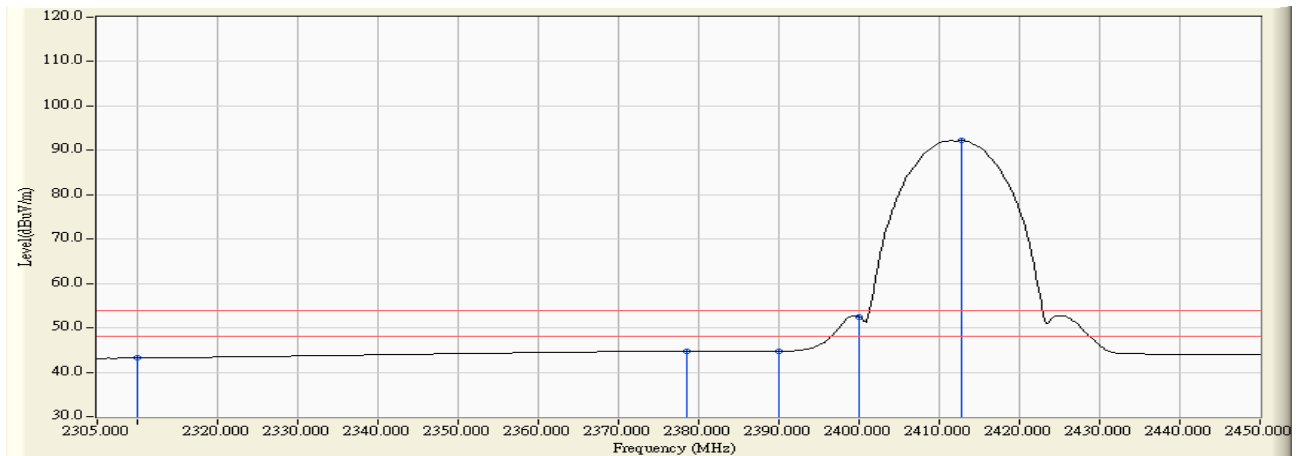
Site : CB3	Time : 2007/12/13 - 16:01
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH1-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.052	16.108	45.160	-8.840	54.000	AVERAGE
2	*	2379.679	29.185	17.346	46.531	-7.469	54.000	AVERAGE
3		2390.000	29.203	17.302	46.505	-7.495	54.000	AVERAGE
4		2400.000	29.221	17.510	46.731	-7.269	54.000	AVERAGE
5		2411.353	29.240	48.866	78.106	24.106	54.000	AVERAGE

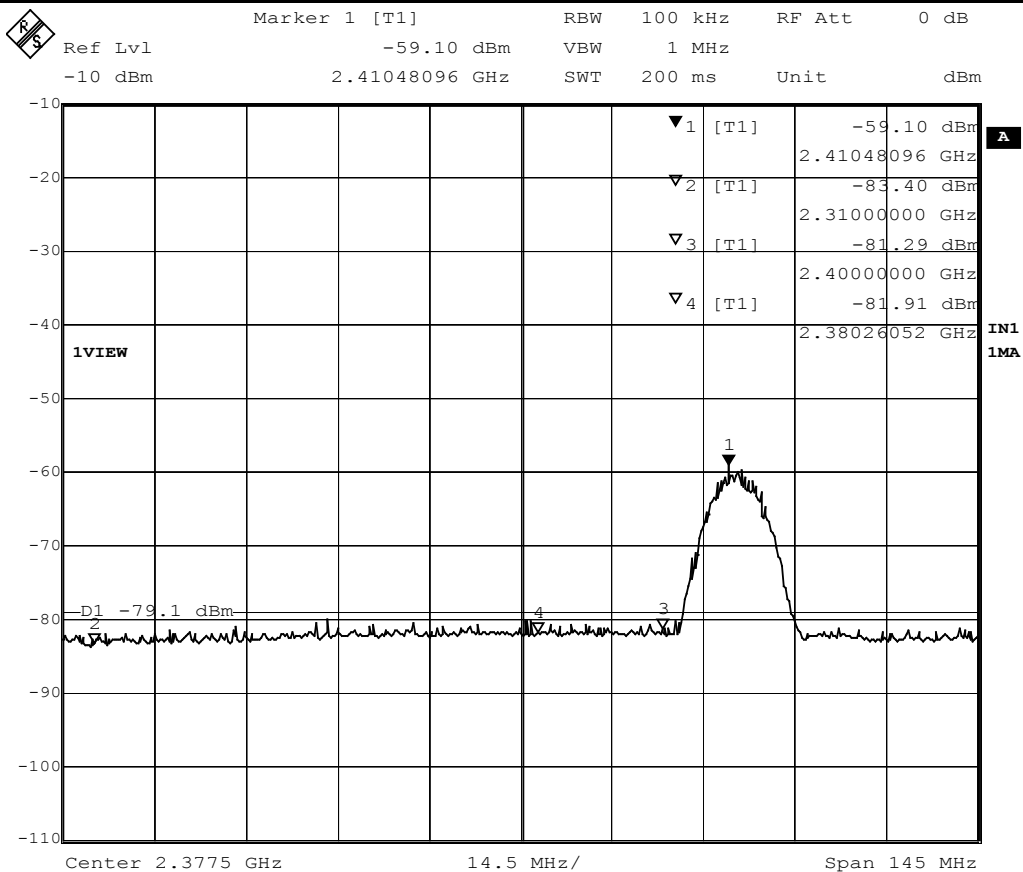
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB3	Time : 2007/12/13 - 19:03
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH1-B

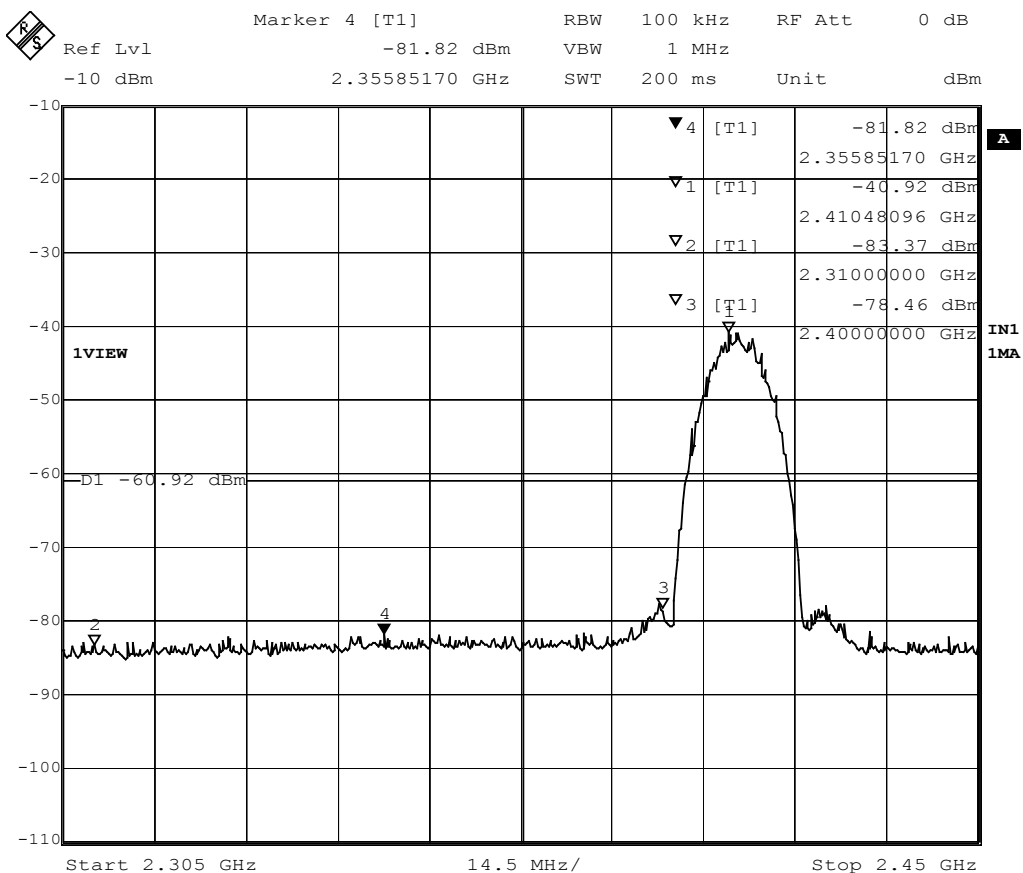


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.074	16.115	43.189	-10.811	54.000	AVERAGE
2	*	2378.517	27.336	17.338	44.674	-9.326	54.000	AVERAGE
3		2390.000	27.384	17.318	44.702	-9.298	54.000	AVERAGE
4		2400.000	27.422	25.100	52.521	-1.479	54.000	AVERAGE
5	*	2412.806	27.465	64.753	92.218	38.218	54.000	AVERAGE

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

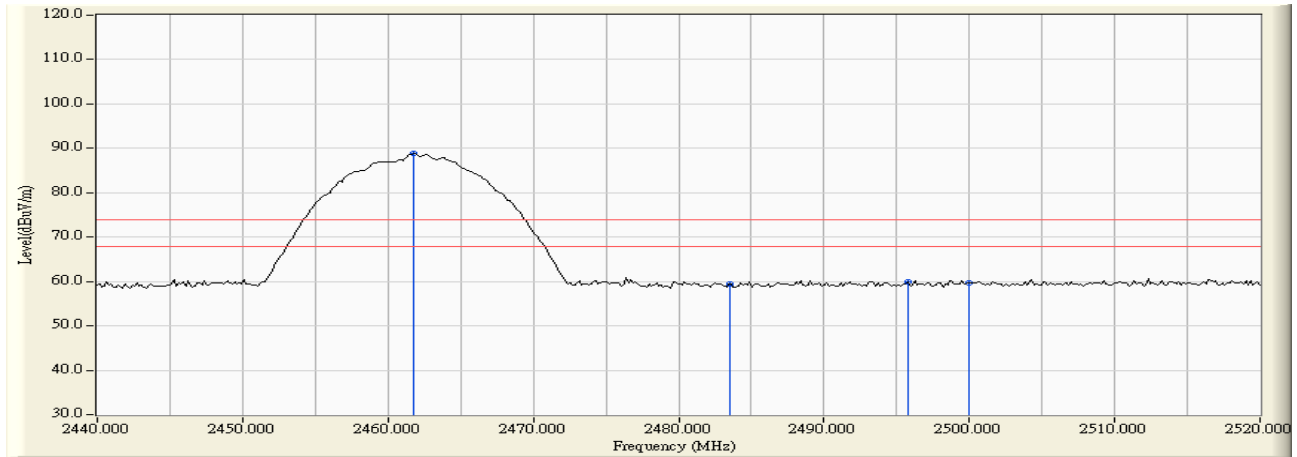


Date: 13.DEC.2007 21:07:01



Date: 13.DEC.2007 19:02:22

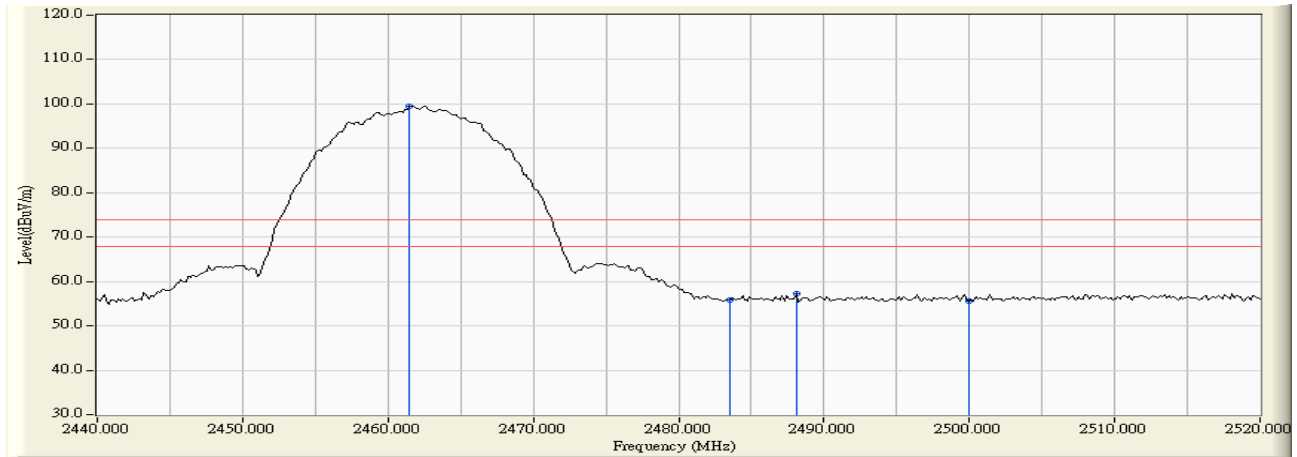
Site : CB3	Time : 2007/12/13 - 16:53
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH11-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2461.804	29.300	59.477	88.777	14.777	74.000	PEAK
2		2483.500	29.326	30.065	59.390	-14.610	74.000	PEAK
3	*	2495.792	29.340	30.521	59.861	-14.139	74.000	PEAK
4		2500.000	29.352	30.326	59.678	-14.322	74.000	PEAK

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

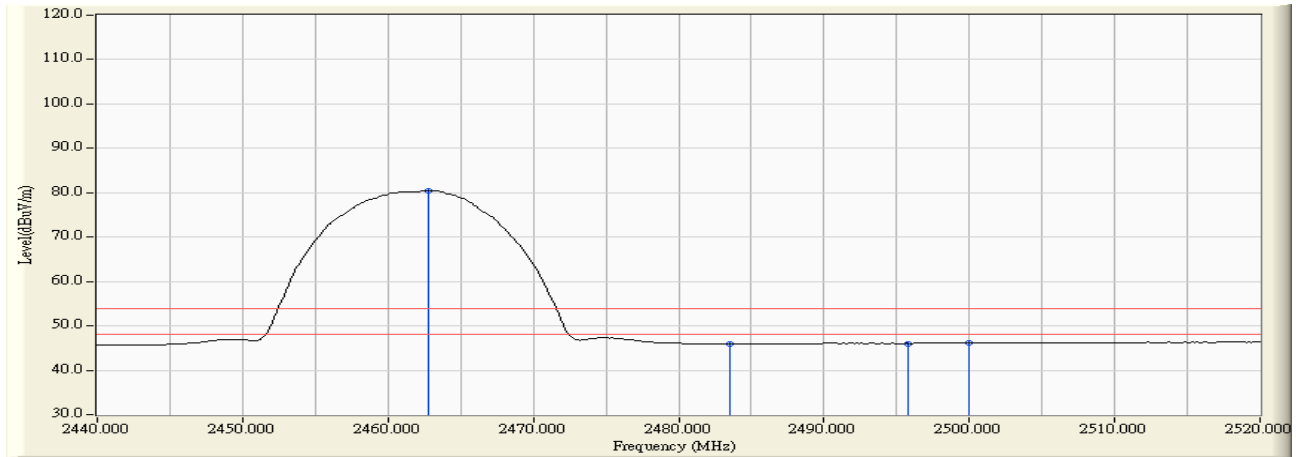
Site : CB3	Time : 2007/12/13 - 19:17
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH11-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2461.483	27.618	71.826	99.444	25.444	74.000	PEAK
2		2483.500	27.694	28.186	55.879	-18.121	74.000	PEAK
3	*	2488.096	27.706	29.455	57.162	-16.838	74.000	PEAK
4		2500.000	27.744	27.870	55.614	-18.386	74.000	PEAK

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

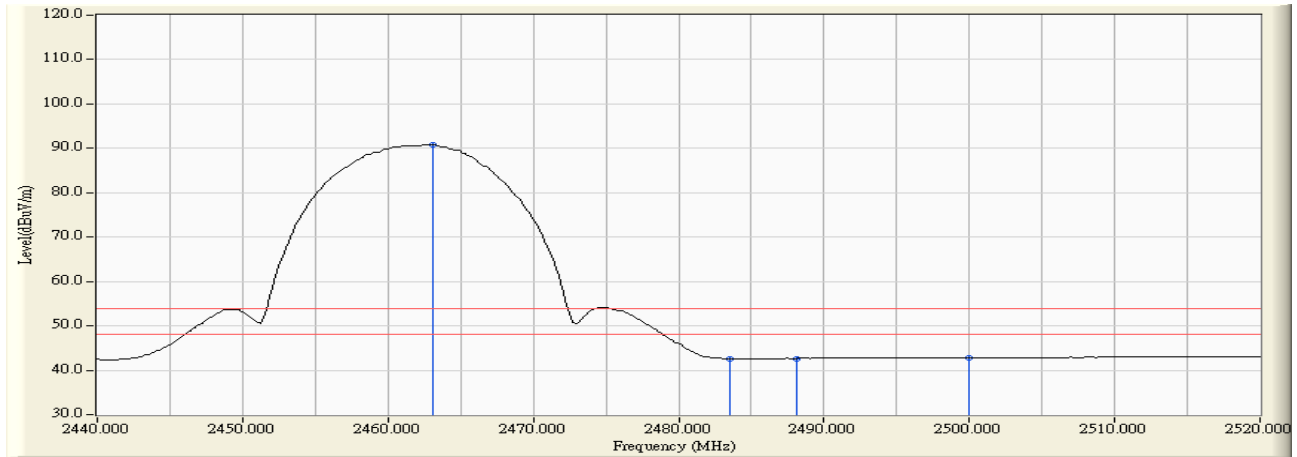
Site : CB3	Time : 2007/12/13 - 16:56
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH11-B



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.766	29.300	51.228	80.529	26.529	54.000	AVERAGE
2		2483.500	29.326	16.596	45.921	-8.079	54.000	AVERAGE
3	*	2495.792	29.340	16.677	46.017	-7.983	54.000	AVERAGE
4		2500.000	29.352	16.803	46.155	-7.845	54.000	AVERAGE

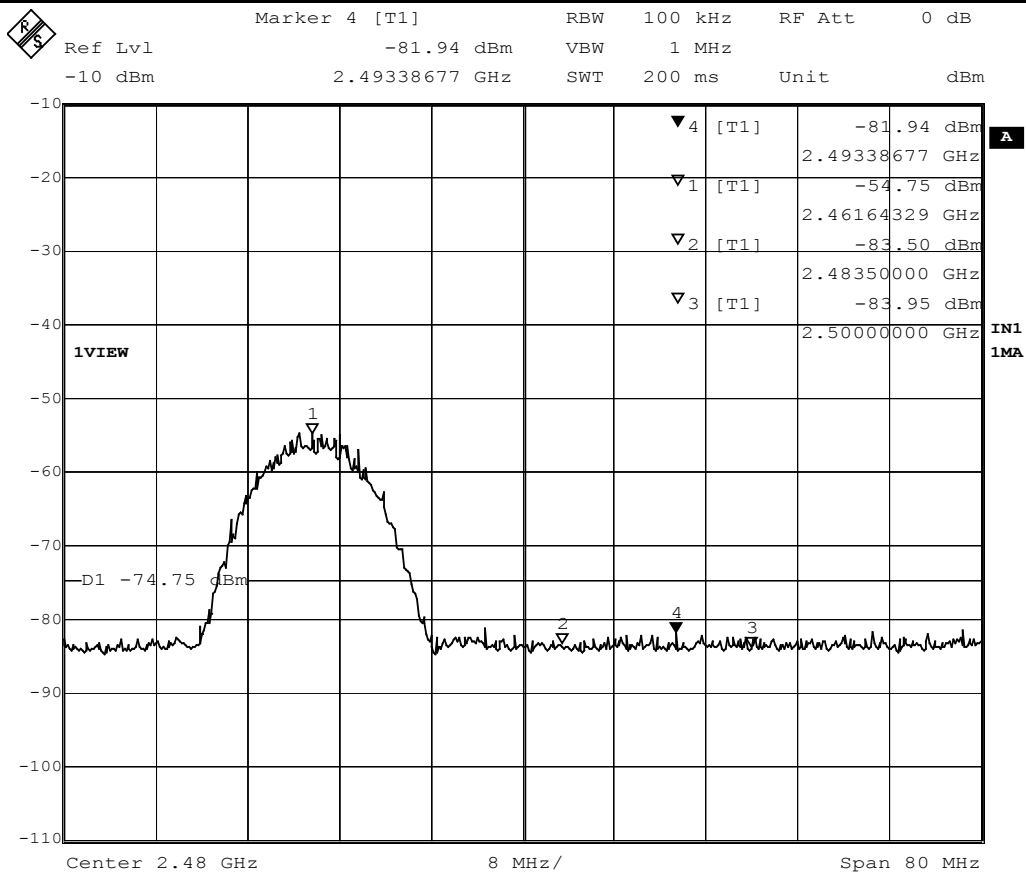
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB3	Time : 2007/12/13 - 19:17
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH11-B

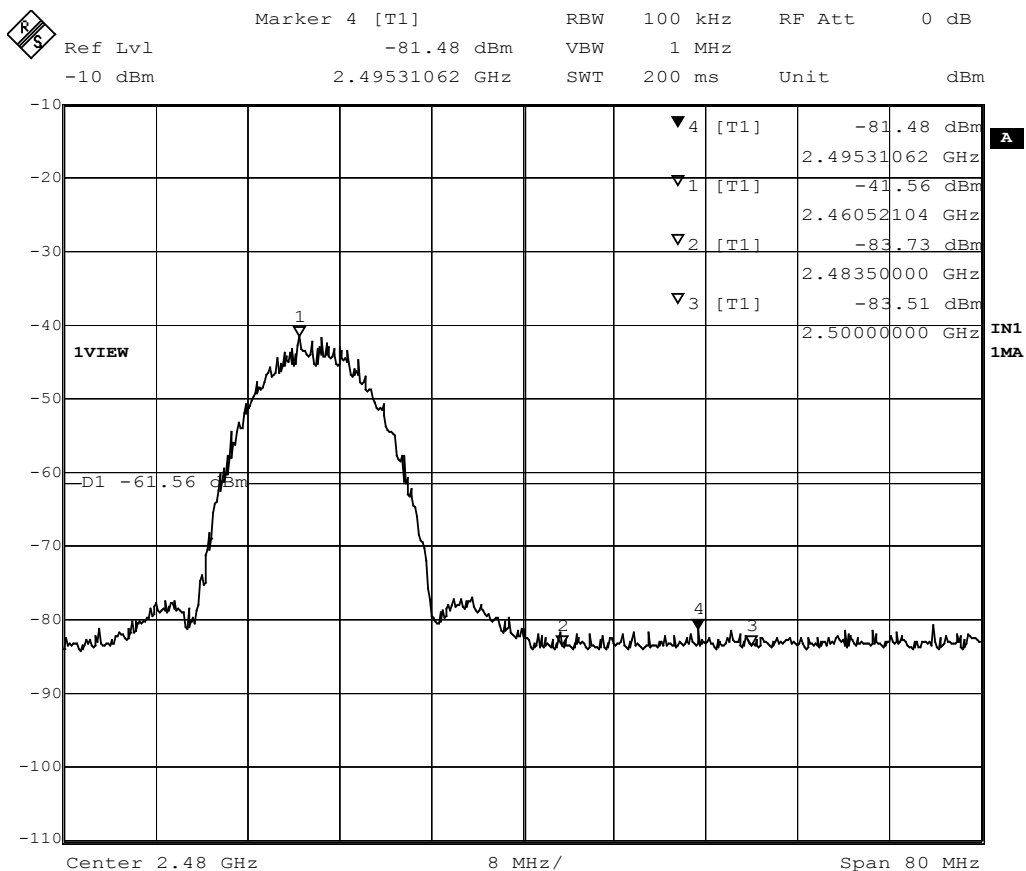


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2463.086	27.624	63.262	90.886	36.886	54.000	AVERAGE
2		2483.500	27.694	14.903	42.596	-11.404	54.000	AVERAGE
3	*	2488.096	27.706	14.924	42.631	-11.369	54.000	AVERAGE
4		2500.000	27.744	15.083	42.827	-11.173	54.000	AVERAGE

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

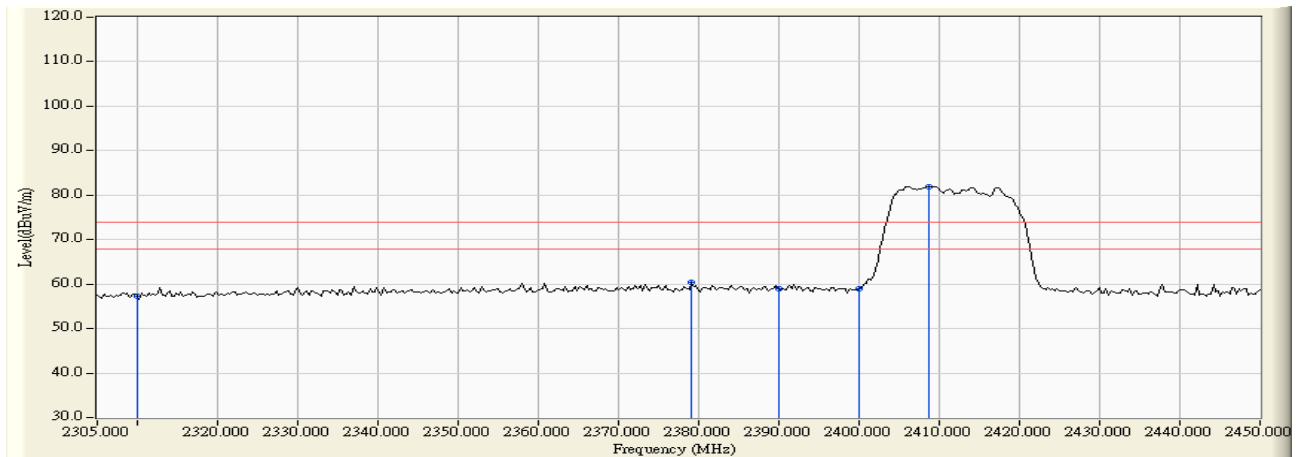


Date: 13.DEC.2007 17:12:36



Date: 13.DEC.2007 20:32:43

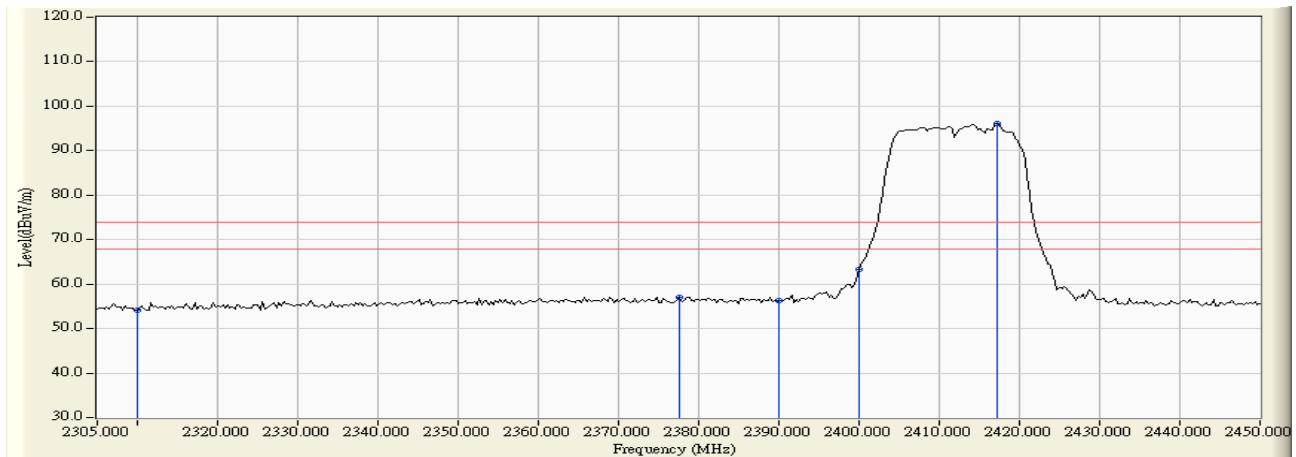
Site : CB3	Time : 2007/12/13 - 16:02
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH1-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.052	28.246	57.298	-16.702	74.000	PEAK
2	*	2379.098	29.183	31.267	60.451	-13.549	74.000	PEAK
3		2390.000	29.203	29.733	58.936	-15.064	74.000	PEAK
4		2400.000	29.221	29.786	59.007	-14.993	74.000	PEAK
5		2408.738	29.236	52.699	81.935	7.935	74.000	PEAK

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

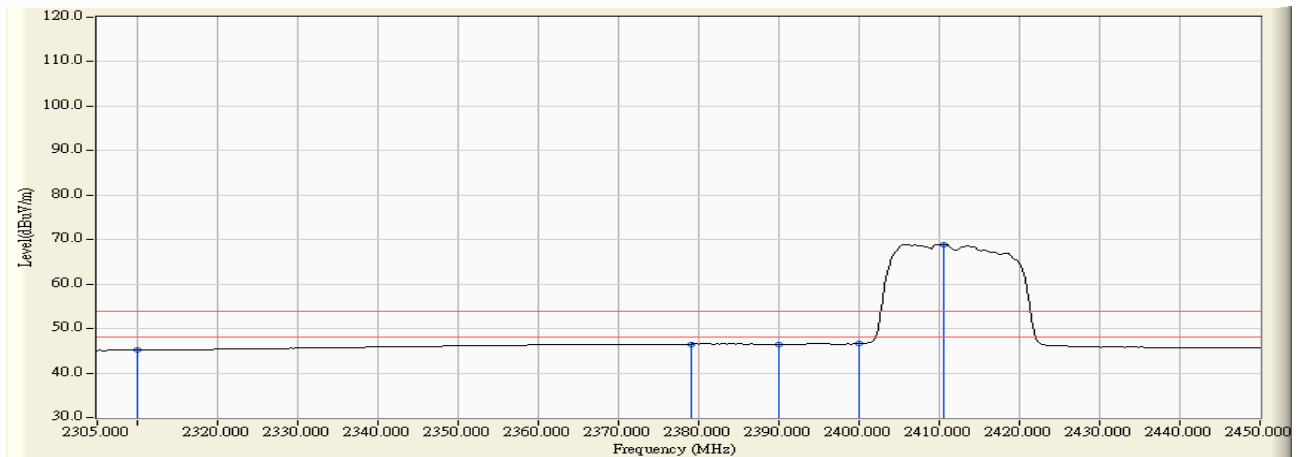
Site : CB3	Time : 2007/12/13 - 19:04
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH1-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.074	27.065	54.139	-19.861	74.000	PEAK
2	*	2377.645	27.332	29.780	57.113	-16.887	74.000	PEAK
3		2390.000	27.384	28.823	56.207	-17.793	74.000	PEAK
4		2400.000	27.422	35.886	63.307	-10.693	74.000	PEAK
5		2417.164	27.479	68.662	96.140	22.140	74.000	PEAK

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

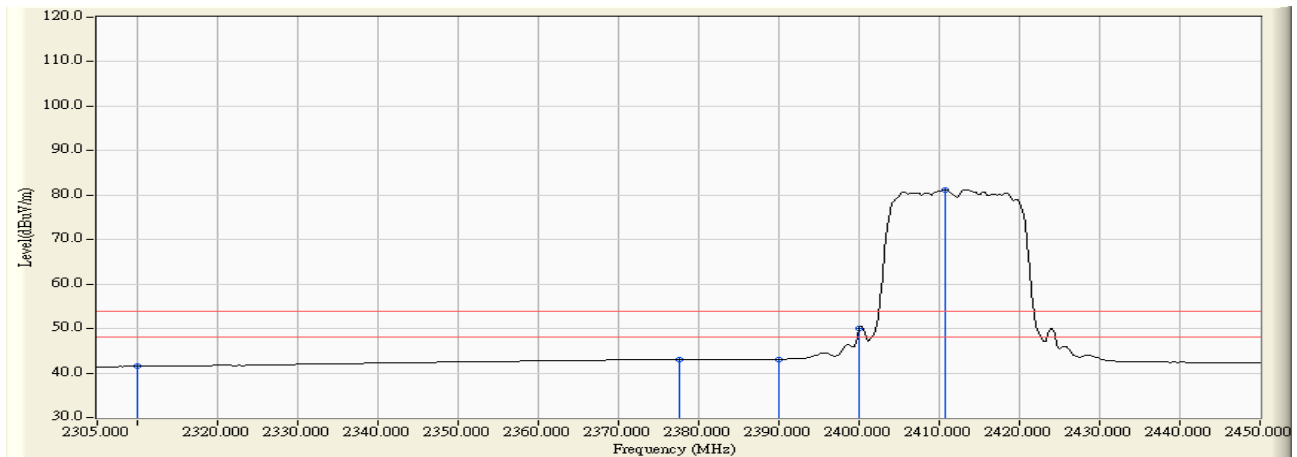
Site : CB3	Time : 2007/12/13 - 16:03
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH1-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.052	16.098	45.150	-8.850	54.000	AVERAGE
2	*	2379.098	29.183	17.342	46.526	-7.474	54.000	AVERAGE
3		2390.000	29.203	17.290	46.493	-7.507	54.000	AVERAGE
4		2400.000	29.221	17.490	46.711	-7.289	54.000	AVERAGE
5		2410.481	29.239	39.687	68.926	14.926	54.000	AVERAGE

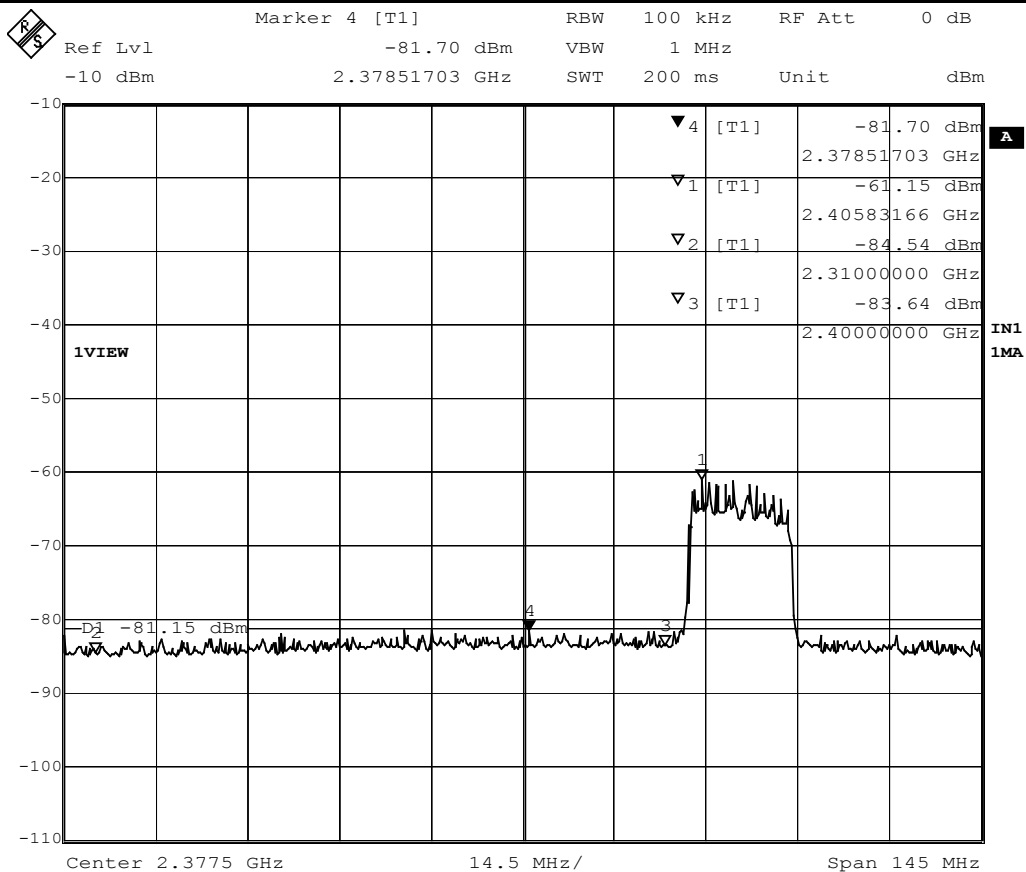
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB3	Time : 2007/12/13 - 19:05
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH1-G

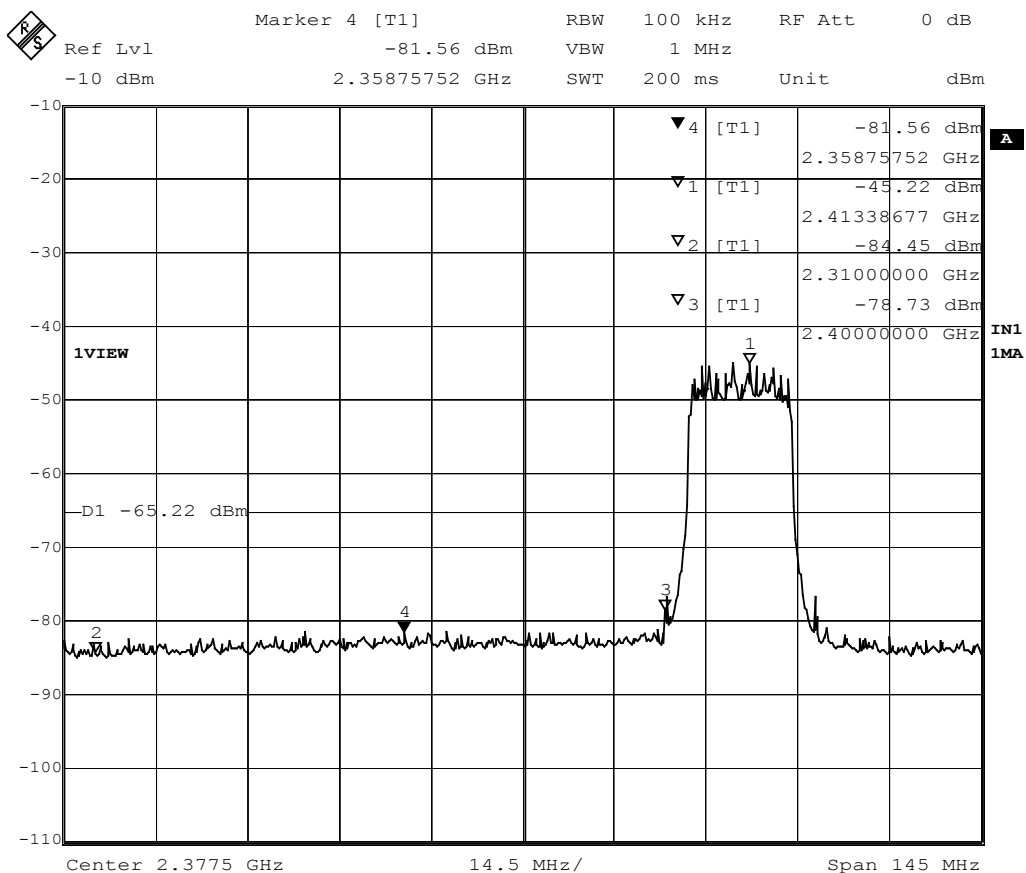


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.074	14.433	41.507	-12.493	54.000	AVERAGE
2	*	2377.645	27.332	15.625	42.958	-11.042	54.000	AVERAGE
3		2390.000	27.384	15.724	43.108	-10.892	54.000	AVERAGE
4		2400.000	27.422	22.678	50.099	-3.901	54.000	AVERAGE
5		2410.771	27.459	53.793	81.252	27.252	54.000	AVERAGE

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

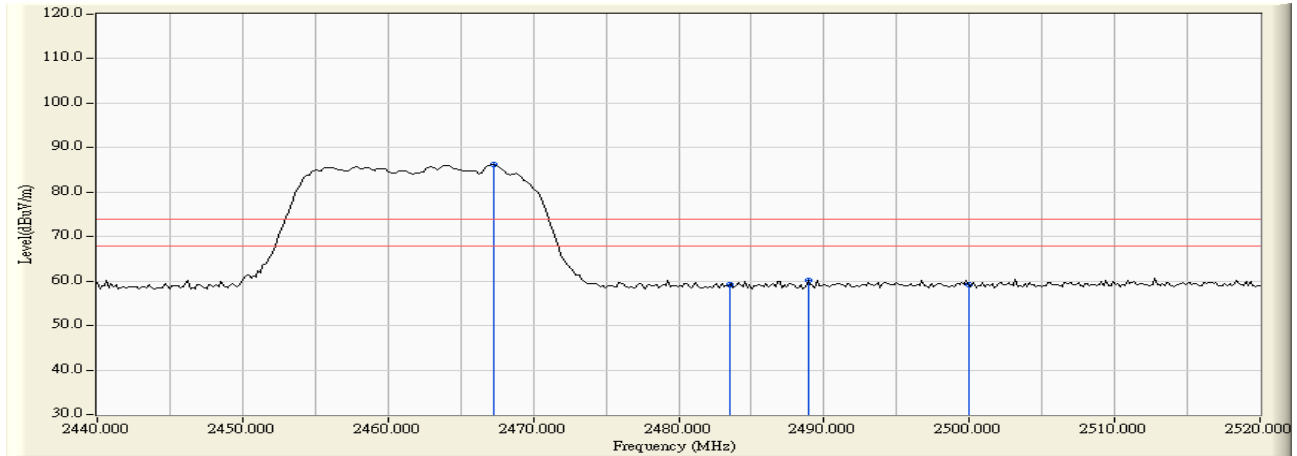


Date: 13.DEC.2007 16:18:29



Date: 13.DEC.2007 19:11:20

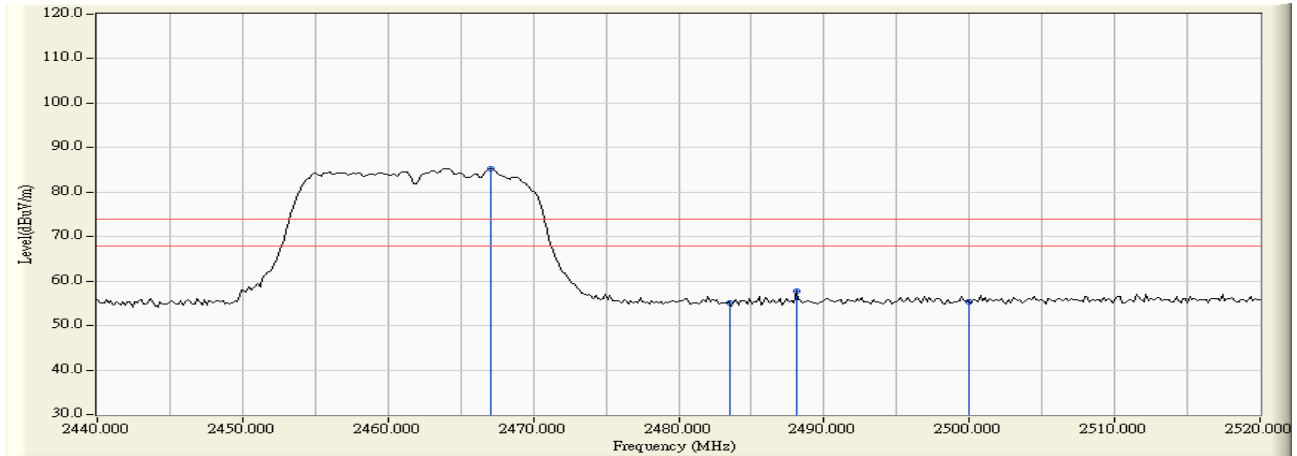
Site : CB3	Time : 2007/12/13 - 17:13
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH11-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2467.254	29.306	56.840	86.146	12.146	74.000	PEAK
2		2483.500	29.326	29.843	59.168	-14.832	74.000	PEAK
3	*	2488.898	29.332	30.917	60.249	-13.751	74.000	PEAK
4		2500.000	29.352	29.761	59.113	-14.887	74.000	PEAK

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

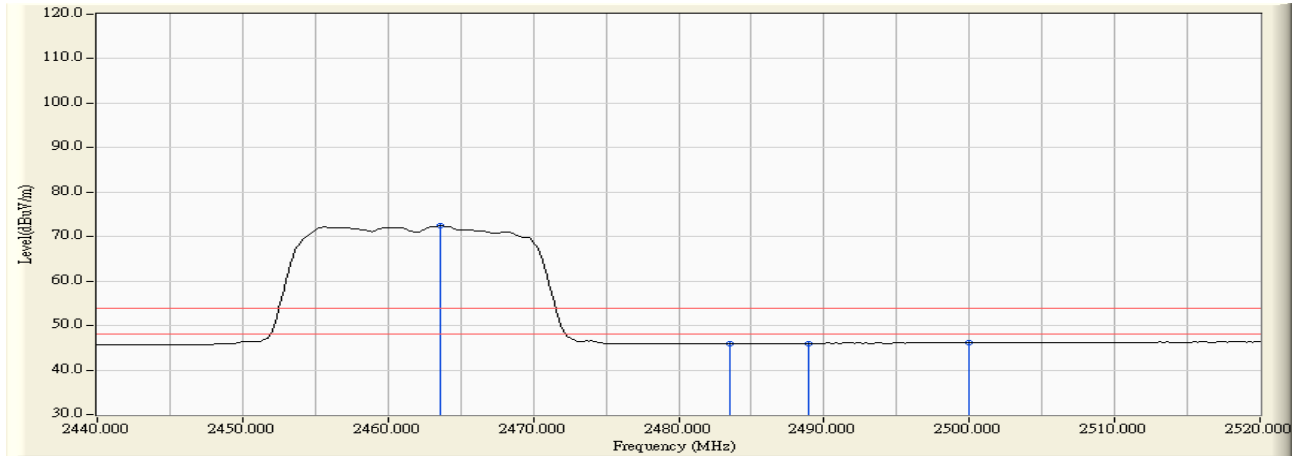
Site : CB3	Time : 2007/12/13 - 20:32
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH11-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2467.094	27.638	57.610	85.248	11.248	74.000	PEAK
2		2483.500	27.694	27.427	55.120	-18.880	74.000	PEAK
3	*	2488.096	27.706	30.110	57.817	-16.183	74.000	PEAK
4		2500.000	27.744	27.691	55.435	-18.565	74.000	PEAK

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

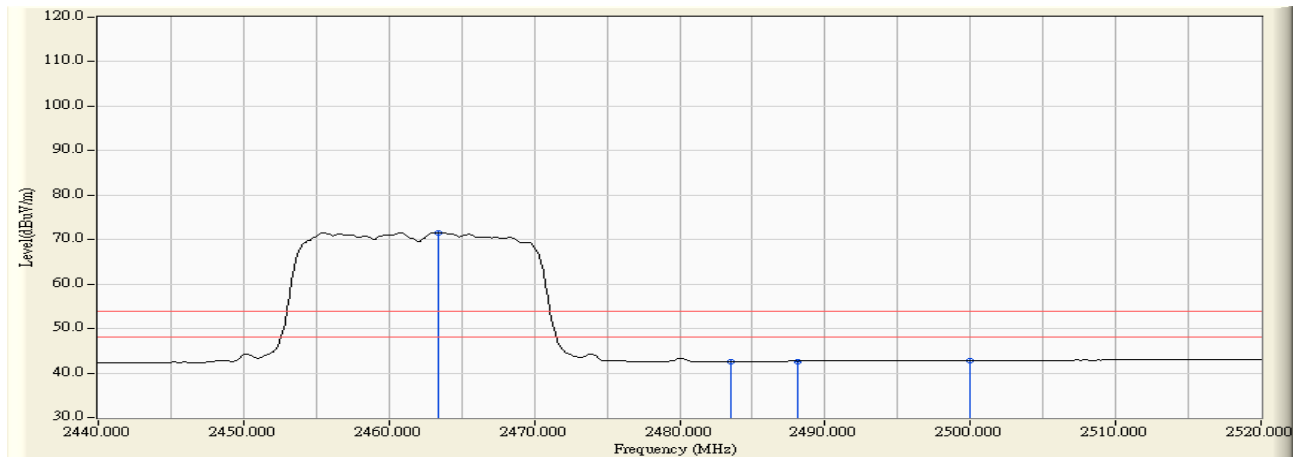
Site : CB3	Time : 2007/12/13 - 17:14
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : CH11-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2463.567	29.302	43.061	72.363	18.363	54.000	AVERAGE
2		2483.500	29.326	16.591	45.916	-8.084	54.000	AVERAGE
3	*	2488.898	29.332	16.667	45.999	-8.001	54.000	AVERAGE
4		2500.000	29.352	16.801	46.153	-7.847	54.000	AVERAGE

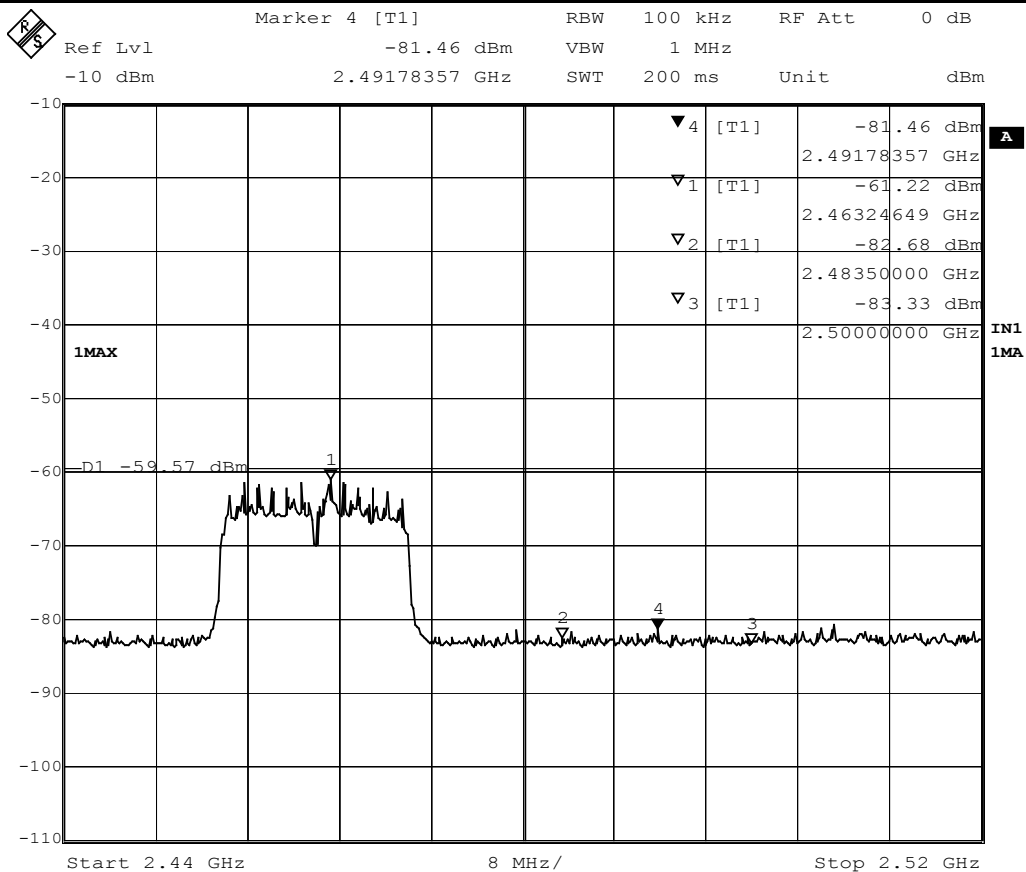
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB3	Time : 2007/12/13 - 20:33
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
EUT : AIRLINK101 11G WIRELESS MUSIC BRIDGE	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : CH11-G

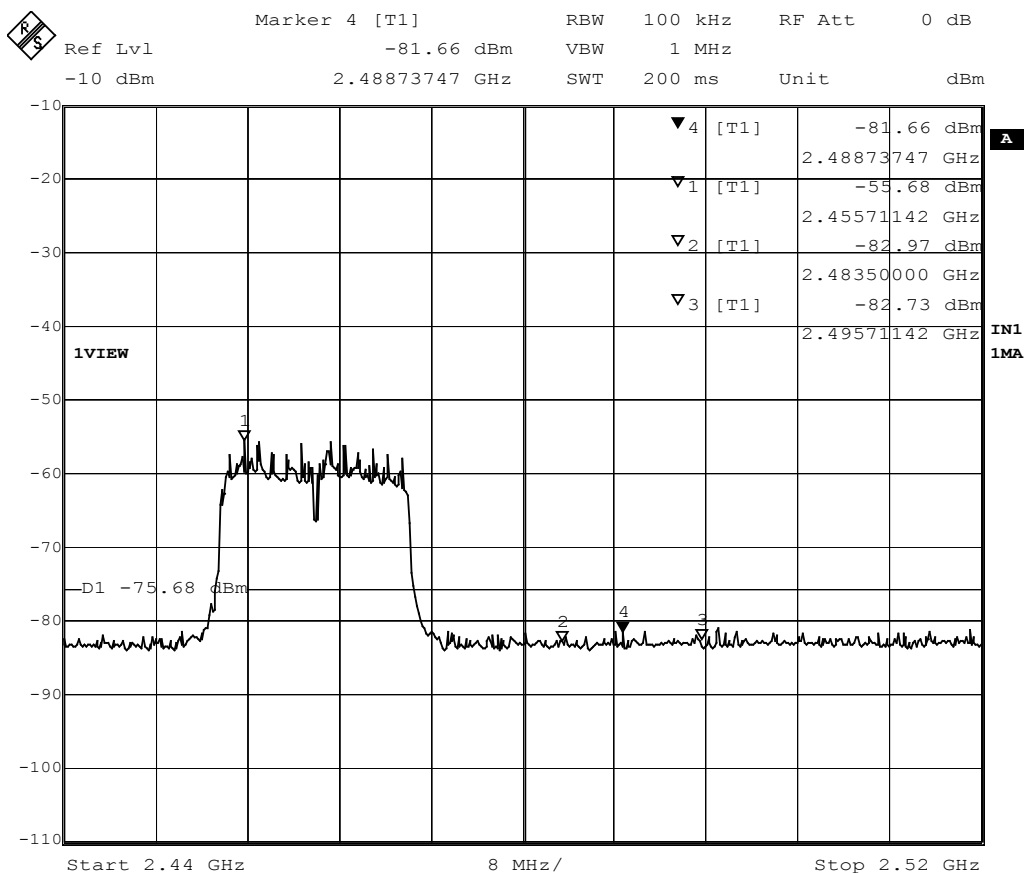


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2463.407	27.625	43.966	71.591	17.591	54.000	AVERAGE
2		2483.500	27.694	14.937	42.630	-11.370	54.000	AVERAGE
3	*	2488.096	27.706	14.934	42.641	-11.359	54.000	AVERAGE
4		2500.000	27.744	15.119	42.863	-11.137	54.000	AVERAGE

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



Date: 13.DEC.2007 18:12:55



Date: 13.DEC.2007 20:40:20

6. Occupied Bandwidth

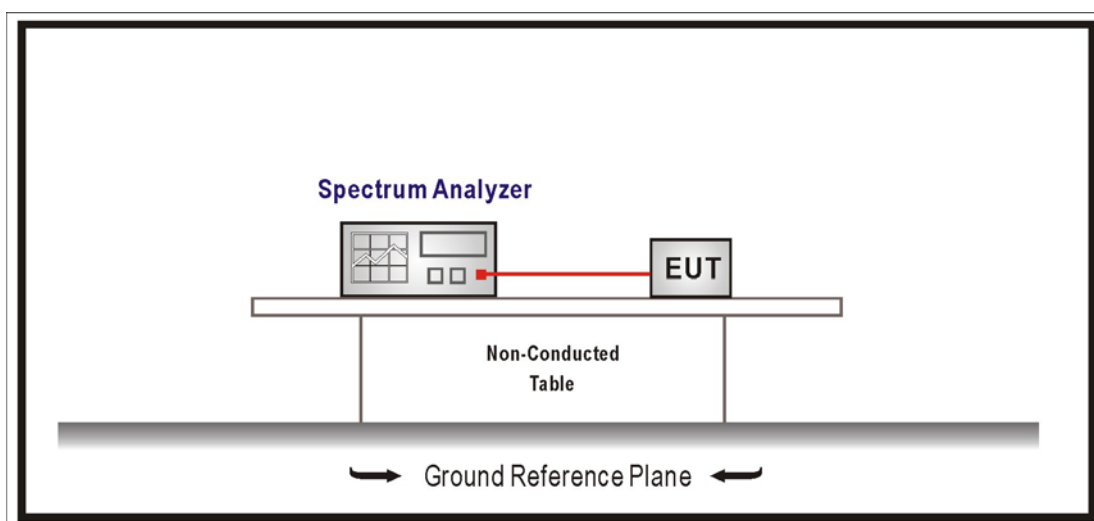
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2007

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

The minimum 6dB bandwidth shall be at least 500kHz.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

6.5. Uncertainty

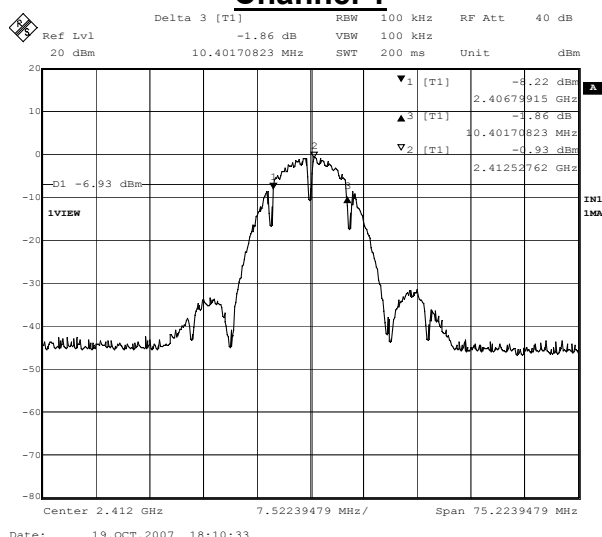
The measurement uncertainty is defined as $\pm 50\text{kHz}$

6.6. Test Result

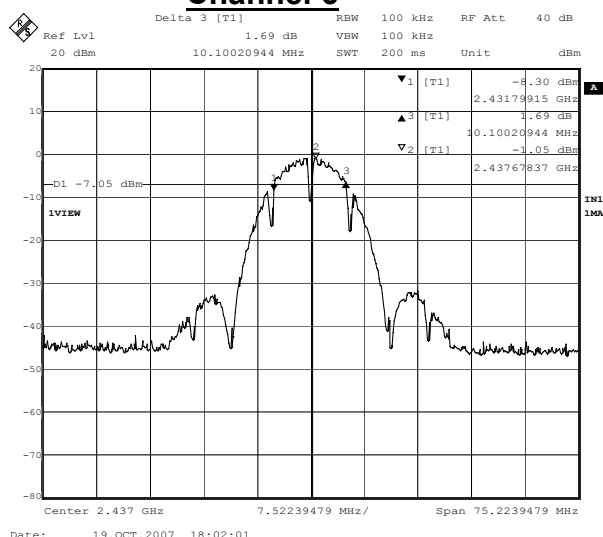
Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/19	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Value (kHz)	Limit (kHz)	Result
1	2412	10401.70	>500	Pass
6	2437	10100.20	> 500	Pass
11	2462	10401.70	> 500	Pass

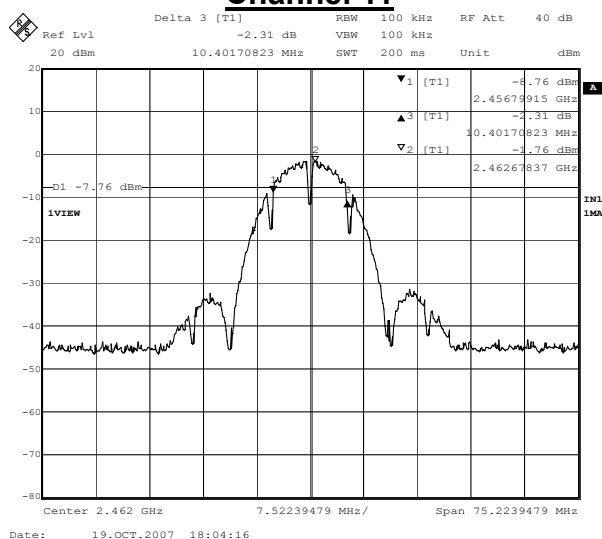
Channel 1



Channel 6



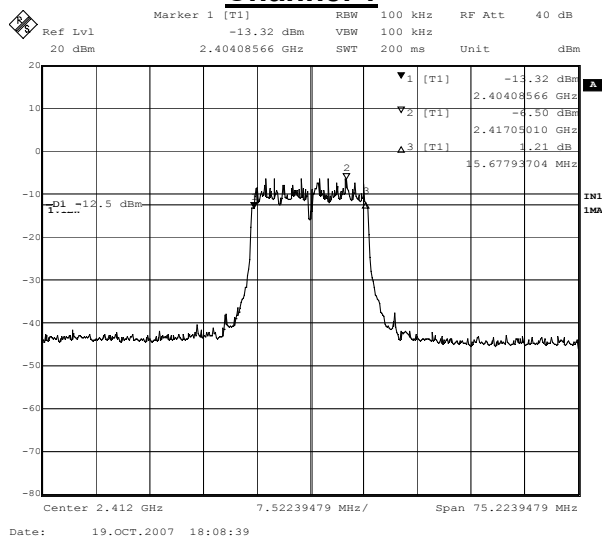
Channel 11



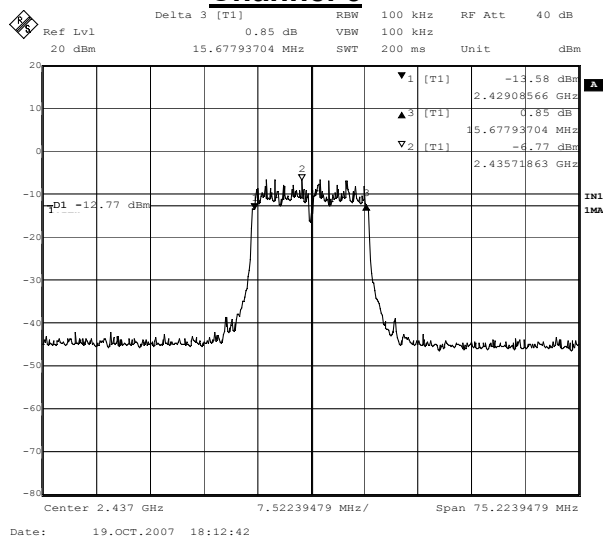
Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/19	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Value (kHz)	Limit (kHz)	Result
1	2412	15677.93	> 500	Pass
6	2437	15677.93	> 500	Pass
11	2462	15626.96	> 500	Pass

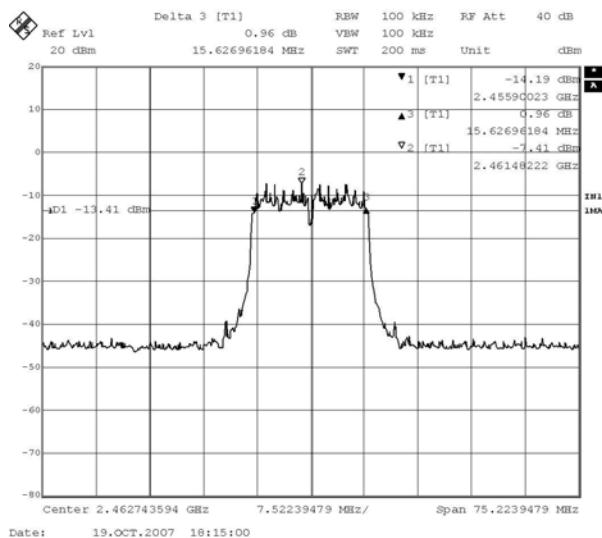
Channel 1



Channel 6



Channel 11



7. Power Density

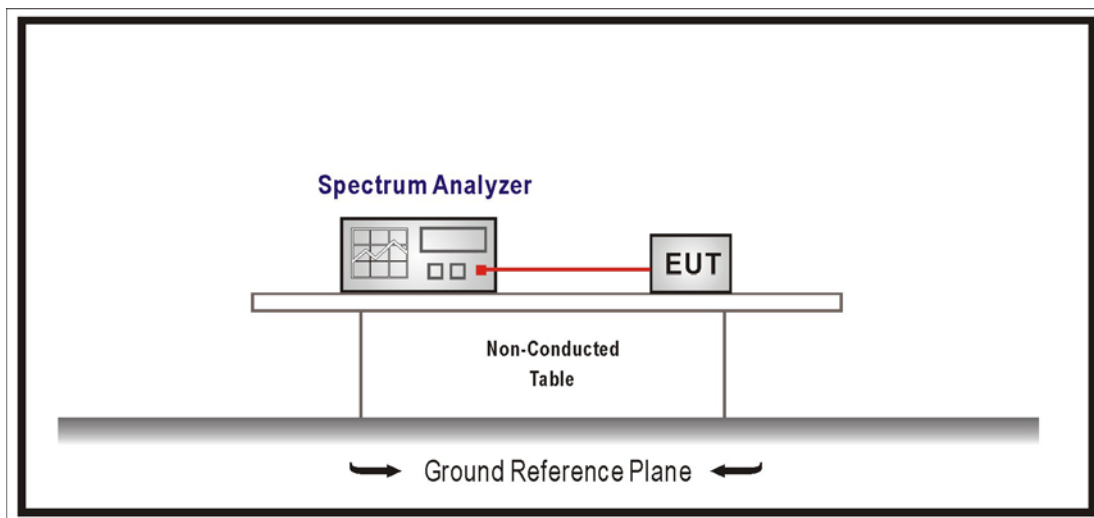
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2007

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

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

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

7.5. Uncertainty

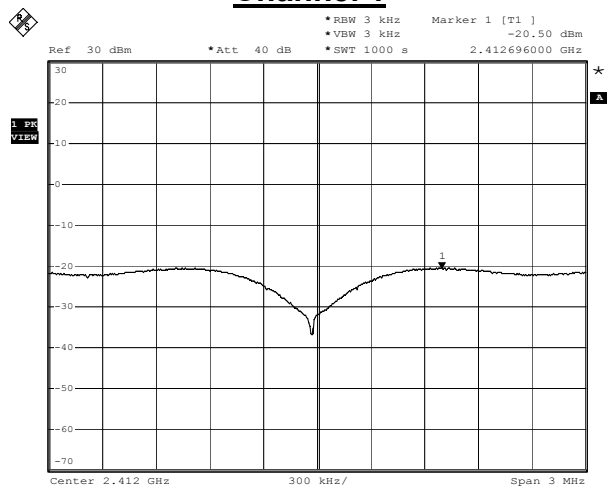
The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

7.6. Test Result

Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/22	Test Site	No.1 OATS

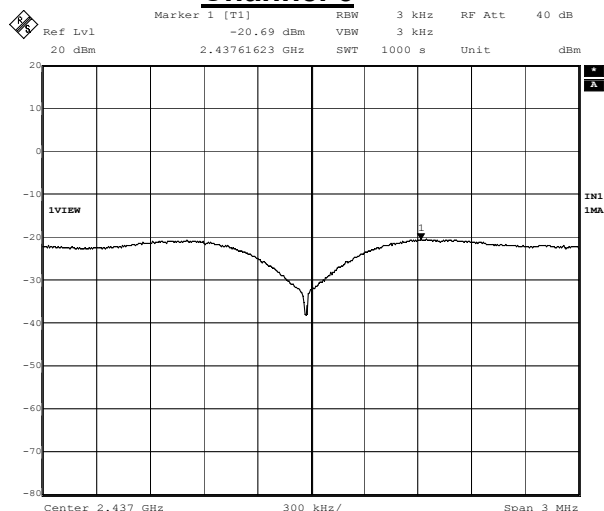
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-20.50	<8	Pass
6	2437	-20.69	<8	Pass
11	2462	-21.87	<8	Pass

Channel 1



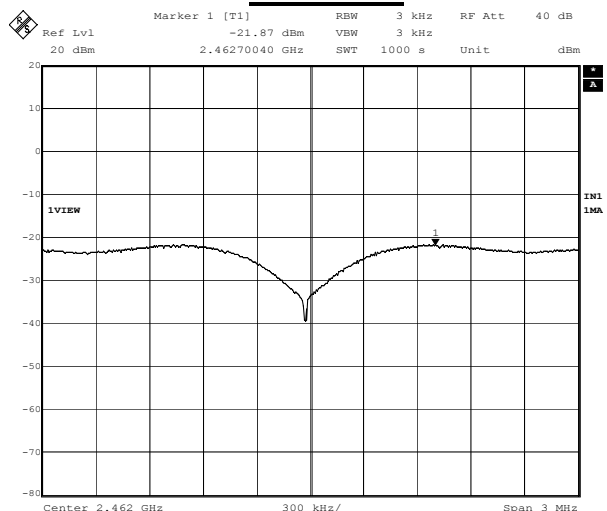
Date: 22.OCT.2007 11:46:30

Channel 6



Date: 19.OCT.2007 19:20:18

Channel 11

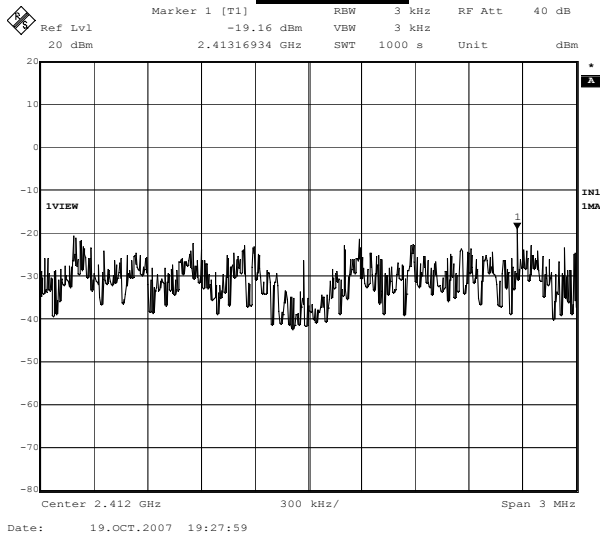


Date: 19.OCT.2007 19:22:34

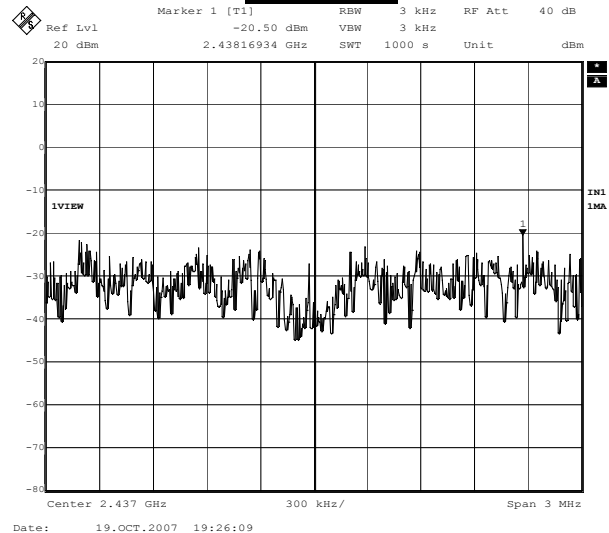
Product	AIRLINK101 802.11g Wireless Music Bridge		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2007/10/22	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-19.16	<8	Pass
6	2437	-20.50	<8	Pass
11	2462	-19.97	<8	Pass

Channel 1



Channel 6



Channel 11

