

FCC TEST REPORT (CO-LOCATED)

REPORT NO.: RF130911C29-2

MODEL NO.: MR18-HW

FCC ID: UDX-60026010

RECEIVED: Sep. 11, 2013

TESTED: Nov. 13 ~ Nov. 14, 2013

ISSUED: Nov. 19, 2013

APPLICANT: Cisco Systems, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130911C29-2	Original release.	Nov. 19, 2013



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1. CERTIFICATION

PRODUCT: Wireless 802.11 abgn AP
MODEL NO.: MR18-HW
BRAND: Cisco
APPLICANT: Cisco Systems, Inc.
TESTED: Nov. 13 ~ Nov. 14, 2013
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2009

The above equipment (model: MR18-HW) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Sunt Lee , **DATE :** Nov. 19, 2013
Sunt Lee / Specialist

APPROVED BY : Ken Liu , **DATE :** Nov. 19, 2013
Ken Liu / Senior Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207 15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -2.09dB at 13.80078MHz.
15.247(d) 15.209 15.407(b/1/2/3) (b)(6)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 15065.00MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Wireless 802.11 abgn AP
MODEL NO.	MR18-HW
POWER SUPPLY	12Vdc (Adapter) 48Vdc (POE)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11a/g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps
OPERATING FREQUENCY	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180~5240MHz, 5745~5825MHz
OUTPUT POWER	2412~2462MHz: 830.280mW 5180~5240MHz: 49.659mW 5745~5825MHz: 780.109mW
ANTENNA TYPE	Refer to Note
ANTENNA CONNECTOR	Refer to Note
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	NA

NOTE:

- The EUT incorporates a MIMO function. The EUT provides 2 completed transmitters and 2 receivers.

Radio 1	
MODULATION MODE	TX FUNCTION
802.11b	2TX
802.11g	2TX
802.11n (20MHz) - MCS 8-15	2TX
802.11n (40MHz) - MCS 8-15	2TX

Radio 2	
MODULATION MODE	TX FUNCTION
802.11a	2TX
802.11n (20MHz) - MCS 8-15	2TX
802.11n (40MHz) - MCS 8-15	2TX

Radio 3	
MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz) - MCS 0-7	1TX
802.11n (40MHz) - MCS 0-7	1TX

- The EUT consumes power from the following adapter (support unit).

Brand	Ruckus
Model	HK-AD-120A100-US
Input Power	100-240Vac, 50/60Hz, 0.4A
Output Power	12Vdc, 1.0A
Power Line	1.8m cable without core attached on adapter

- The EUT consumes power from the following POE (support unit).

Brand	SONICWALL
Model	PD-6083G300
Input Power	100-250Vac, 50/60Hz, 0.5A
Output Power	48Vdc, 0.35A

- The EUT uses following antennas.

Radio	Antenna Type	Connector	Gain (dBi)		Remark
1	PIFA	IPEX	4		2.4GHz only
2	PIFA	IPEX	5150~5250MHz	4	5GHz only
			5725~5825MHz	6	
3	Printed	IPEX	2		2.4GHz + 5GHz combo

- The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

FOR 2.4GHz

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

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

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	
A	√	√	√	Power from adapter
B	-	√	√	Power from POE

Where RE $\geq$ 1G: Radiated Emission above 1GHz RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

NOTE 1: "-" means no effect.

NOTE 2: The EUT had been pre-tested on the positioned of X-plane and Z-plane. The worst case was found when positioned on **Z-plane**.

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	RADIO	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL
A1	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11b	2412~2462	1 to 11	6
A2	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11g	2412~2462	1 to 11	6
A3	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11n (20MHz)	2412~2462	1 to 11	6
A4	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11n (40MHz)	2412~2462	3 to 9	6
A5	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11b	2412~2462	1 to 11	6
A6	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11g	2412~2462	1 to 11	6
A7	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11n (20MHz)	2412~2462	1 to 11	6
A8	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11n (40MHz)	2412~2462	3 to 9	6

A9	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5180~5240	36 to 48	36
A10	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11n (20MHz)	5180~5240	36 to 48	36
A11	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11n (40MHz)	5190~5230	38 to 46	38
A12	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5745~5825	149 to 165	157
A13	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11n (20MHz)	5745~5825	149 to 165	157
A14	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11n (40MHz)	5745~5825	151 to 159	159
A15	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5745~5825	149 to 165	149
A16	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5180~5240	36 to 48	40

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	RADIO	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL
A1, B1	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11b	2412~2462	1 to 11	6
A2, B2	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11b	2412~2462	1 to 11	6
A3, B3	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5180~5240	36 to 48	36
A4, B4	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5745~5825	149 to 165	157
A5, B5	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5180~5240	36 to 48	36
A6, B6	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5745~5825	149 to 165	157

**A D T****CONDUCTED EMISSION TEST:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	RADIO	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL
A1, B1	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11b	2412~2462	1 to 11	6
A2, B2	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11b	2412~2462	1 to 11	6
A3, B3	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5180~5240	36 to 48	36
A4, B4	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5745~5825	149 to 165	157
	3	802.11a	5745~5825	149 to 165	157
A5, B5	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5180~5240	36 to 48	36
A6, B6	1	802.11b	2412~2462	1 to 11	6
	2	802.11a	5180~5240	36 to 48	36
	3	802.11a	5745~5825	149 to 165	157

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
RE $<$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
PLC	21deg. C, 68%RH	120Vac, 60Hz	Brad Tung



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	Ruckus	HK-AD-120A1 00-US	NA	NA
2	Notebook	DELL	E5420	BPQ7MQ1	FCC DoC Approved
3	POE	NA	AIR-PWRINJ1 500-2	NA	NA

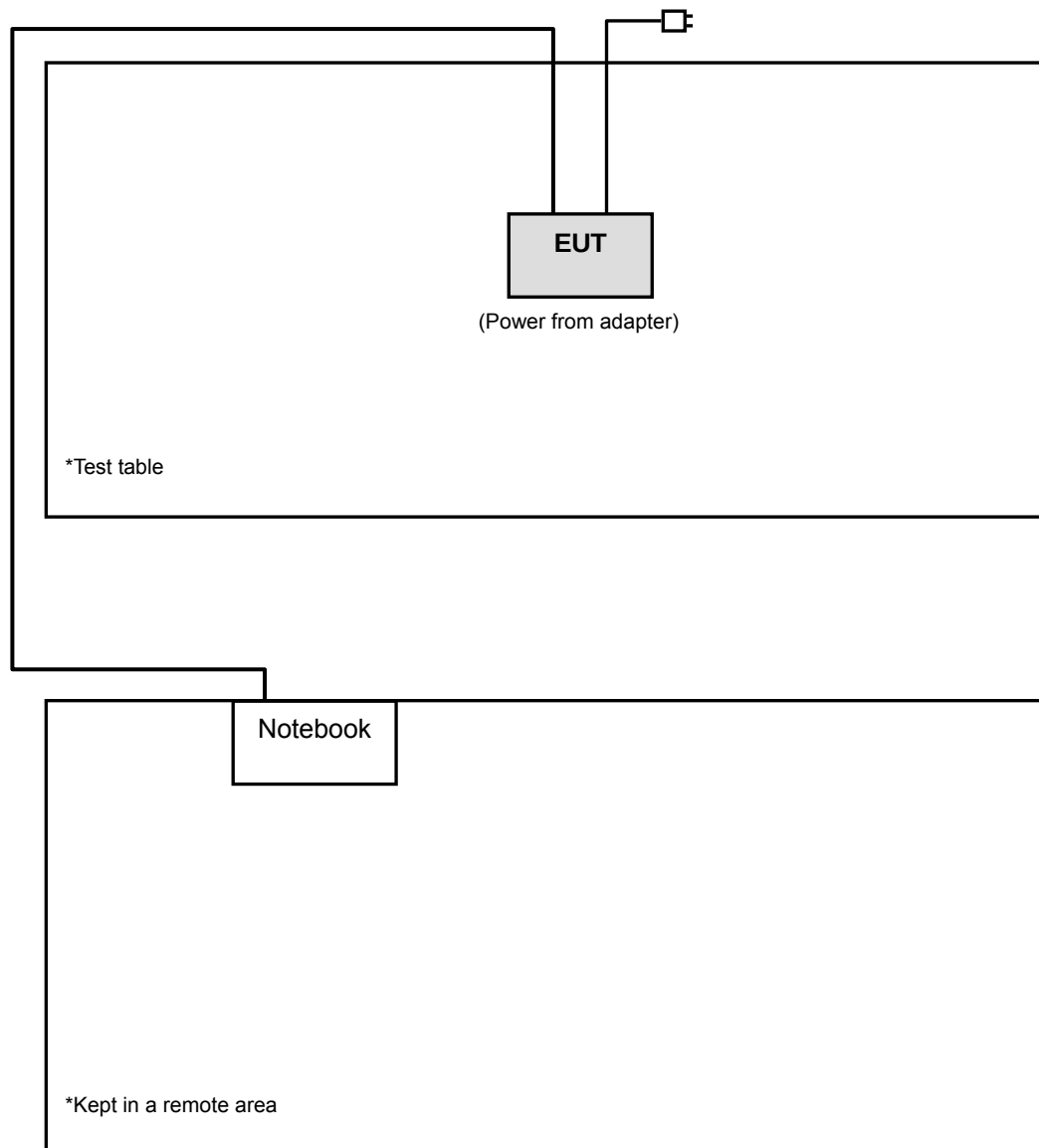
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	10m RJ45 UTP cable
3	10m RJ45 UTP cable

NOTE:

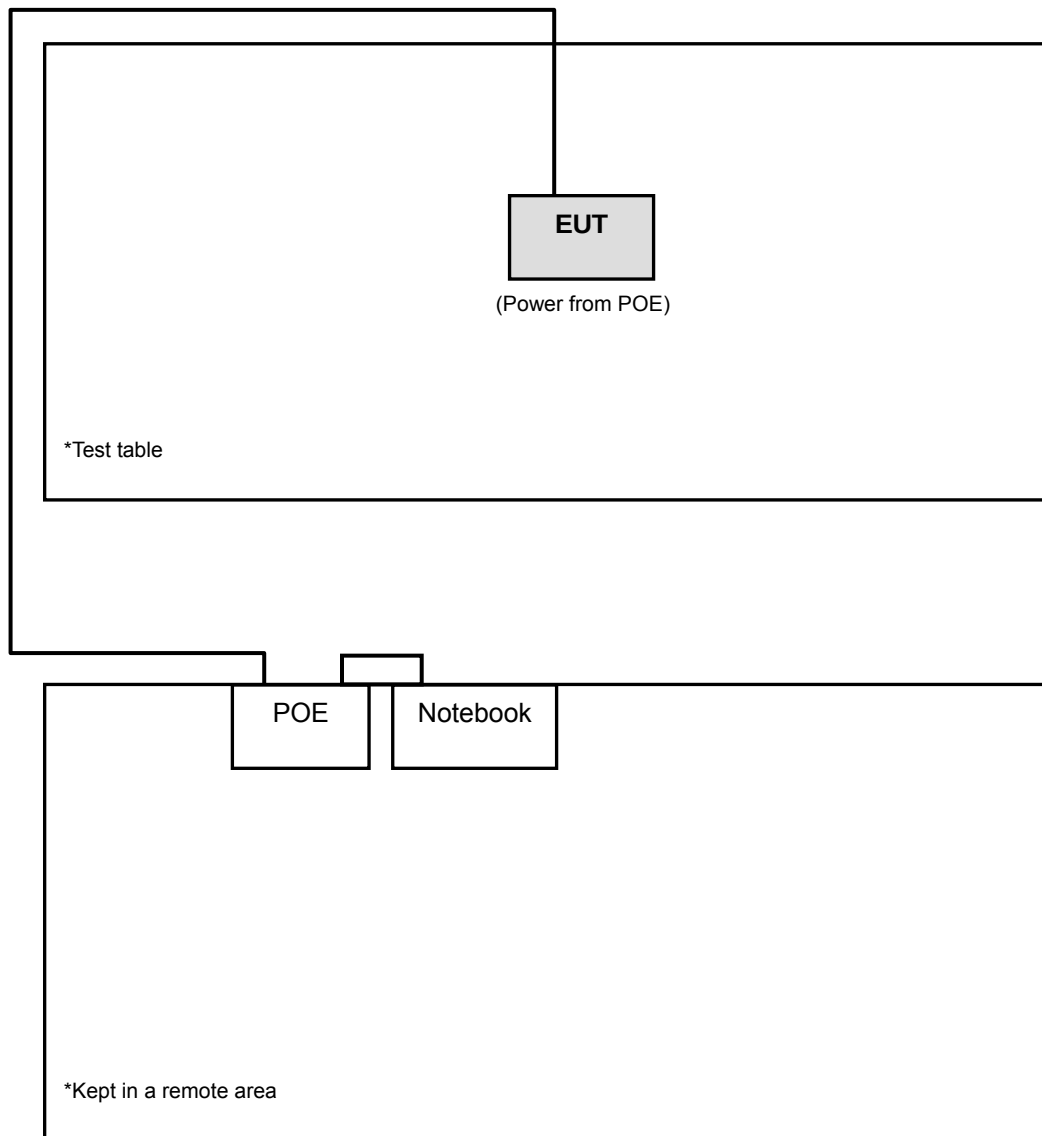
1. All power cords of the above support units are non-shielded (1.8m).
2. Items 2-3 acted as communication partners to transfer data.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

Adapter mode



POE mode



3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.247)

FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
√	FIELD STRENGTH AT 3m (dBμV/m)	
	PK	AV
	74	54
	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m)
	PK	PK
	-27	68.3

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2012	Dec. 24, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jan. 31, 2013	Jan. 30, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Mar. 20, 2013	Mar. 19, 2014
HORN Antenna SCHWARZBECK	9120D	209	Sep. 12, 2013	Sep. 11, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8447D	2944A10633	Oct. 07, 2013	Oct. 06, 2014
Preamplifier Agilent	8449B	3008A01964	Aug. 26, 2013	Aug. 25, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250723/4	Aug. 23, 2013	Aug. 22, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6+309224/4	Aug. 23, 2013	Aug. 22, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2013	Oct. 17, 2014
High Speed Peak Power Meter	ML2495A	0824011	Jul. 29, 2013	Jul. 28, 2014
Power Sensor	MA2411B	0738171	Jul. 29, 2013	Jul. 28, 2014

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in HwaYa Chamber 3.
 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 5. The FCC Site Registration No. is 988962.
 6. The IC Site Registration No. is IC 7450F-3.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

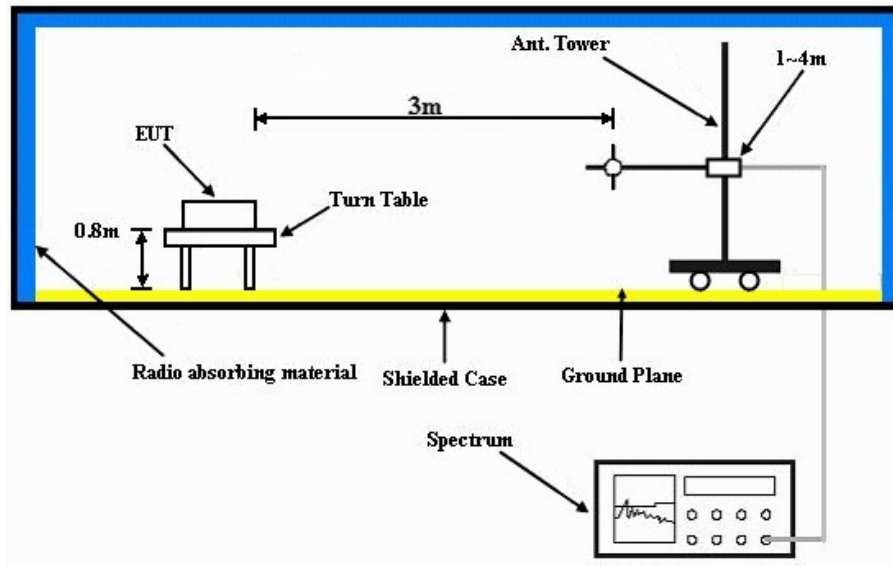
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

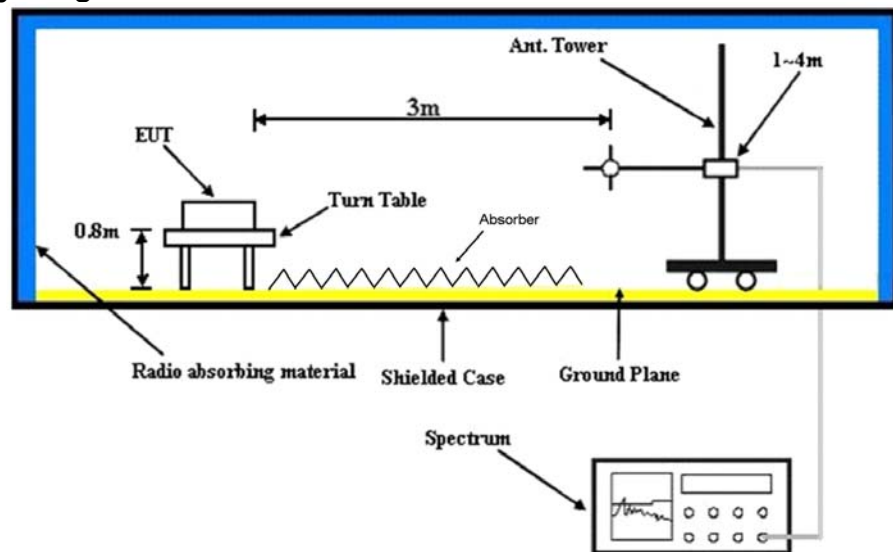
No deviation.

4.1.6 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partners sent data to EUT by command "PING".
- e. The necessary accessories enabled the system in full functions.



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4.1.8 TEST RESULTS

Above 1GHz data

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.6 PK			1.00 H	41	86.40	31.20
2	*2437.00	114.3 AV			1.00 H	41	83.10	31.20
3	4874.00	51.7 PK	74.0	-22.3	1.02 H	154	47.20	4.50
4	4874.00	46.0 AV	54.0	-8.0	1.02 H	154	41.50	4.50
5	5150.00	60.4 PK	74.0	-13.6	1.10 H	295	55.30	5.10
6	5150.00	46.3 AV	54.0	-7.7	1.10 H	295	41.20	5.10
7	*5180.00	112.9 PK			1.10 H	294	75.20	37.70
8	*5180.00	102.9 AV			1.10 H	294	65.20	37.70
9	#6906.00	58.3 PK	74.0	-15.7	1.05 H	29	48.60	9.70
10	#6906.00	50.8 AV	54.0	-3.2	1.05 H	29	41.10	9.70
11	#10360.00	60.5 PK	74.0	-13.5	1.52 H	154	43.00	17.50
12	#10360.00	48.0 AV	54.0	-6.0	1.52 H	154	30.50	17.50
13	#15065.00	70.9 PK	74.0	-3.1	1.02 H	322	49.40	21.50
14	#15065.00	53.0 AV	54.0	-1.0	1.02 H	322	31.50	21.50

**A D T**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.4 PK			1.10 V	330	83.20	31.20
2	*2437.00	110.5 AV			1.10 V	330	79.30	31.20
3	4874.00	53.7 PK	74.0	-20.3	1.02 V	154	49.20	4.50
4	4874.00	49.1 AV	54.0	-4.9	1.02 V	154	44.60	4.50
5	5150.00	61.7 PK	74.0	-12.3	1.05 V	21	56.60	5.10
6	5150.00	47.2 AV	54.0	-6.8	1.05 V	21	42.10	5.10
7	*5180.00	111.1 PK			1.03 V	251	73.40	37.70
8	*5180.00	101.3 AV			1.03 V	251	63.60	37.70
9	#6906.00	57.7 PK	74.0	-16.3	1.06 V	251	48.00	9.70
10	#6906.00	52.3 AV	54.0	-1.7	1.06 V	251	42.60	9.70
11	#10360.00	60.2 PK	74.0	-13.8	1.21 V	188	42.70	17.50
12	#10360.00	47.1 AV	54.0	-6.9	1.21 V	188	29.60	17.50
13	#15065.00	69.5 PK	74.0	-4.5	1.00 V	215	48.00	21.50
14	#15065.00	53.0 AV	54.0	-1.0	1.00 V	215	31.50	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11g CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.00 H	42	28.30	31.00
2	2390.00	45.6 AV	54.0	-8.4	1.00 H	42	14.60	31.00
3	*2437.00	117.5 PK			1.00 H	42	86.30	31.20
4	*2437.00	114.3 AV			1.00 H	42	83.10	31.20
5	2483.50	68.5 PK	74.0	-5.5	1.00 H	41	37.10	31.40
6	2483.50	47.6 AV	54.0	-6.4	1.00 H	41	16.20	31.40
7	4874.00	51.1 PK	74.0	-22.9	1.02 H	156	46.60	4.50
8	4874.00	38.0 AV	54.0	-16.0	1.02 H	156	33.50	4.50
9	5150.00	60.3 PK	74.0	-13.7	1.10 H	293	55.20	5.10
10	5150.00	46.2 AV	54.0	-7.8	1.10 H	293	41.10	5.10
11	*5180.00	110.0 PK			1.10 H	294	72.30	37.70
12	*5180.00	102.9 AV			1.10 H	294	65.20	37.70
13	#6906.00	58.3 PK	74.0	-15.7	1.05 H	31	48.60	9.70
14	#6906.00	50.9 AV	54.0	-3.1	1.05 H	31	41.20	9.70
15	#10360.00	61.1 PK	74.0	-12.9	1.51 H	153	43.60	17.50
16	#10360.00	48.1 AV	54.0	-5.9	1.51 H	153	30.60	17.50
17	#15065.00	70.8 PK	74.0	-3.2	1.02 H	325	49.30	21.50
18	#15065.00	52.9 AV	54.0	-1.1	1.02 H	325	31.40	21.50



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.2 PK	74.0	-7.8	1.00 V	345	35.20	31.00
2	2390.00	49.3 AV	54.0	-4.7	1.00 V	345	18.30	31.00
3	*2437.00	114.6 PK			1.10 V	331	83.40	31.20
4	*2437.00	110.5 AV			1.10 V	331	79.30	31.20
5	2483.50	72.6 PK	74.0	-1.4	1.15 V	15	41.20	31.40
6	2483.50	50.1 AV	54.0	-3.9	1.15 V	15	18.70	31.40
7	4874.00	57.4 PK	74.0	-16.6	1.00 V	345	52.90	4.50
8	4874.00	43.0 AV	54.0	-11.0	1.00 V	345	38.50	4.50
9	5150.00	62.7 PK	74.0	-11.3	1.05 V	26	57.60	5.10
10	5150.00	47.3 AV	54.0	-6.7	1.05 V	26	42.20	5.10
11	*5180.00	111.3 PK			1.02 V	252	73.60	37.70
12	*5180.00	111.2 AV			1.02 V	252	73.50	37.70
13	#6906.00	58.6 PK	74.0	-15.4	1.05 V	253	48.90	9.70
14	#6906.00	52.4 AV	54.0	-1.6	1.05 V	253	42.70	9.70
15	#10360.00	61.0 PK	74.0	-13.0	1.51 V	200	43.50	17.50
16	#10360.00	47.7 AV	54.0	-6.3	1.51 V	200	30.20	17.50
17	#15065.00	70.7 PK	74.0	-3.3	1.00 V	218	49.20	21.50
18	#15065.00	52.9 AV	54.0	-1.1	1.00 V	218	31.40	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11n (20MHz) CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.02 H	54	28.10	31.00
2	2390.00	45.2 AV	54.0	-8.8	1.02 H	54	14.20	31.00
3	*2437.00	117.8 PK			1.00 H	43	86.60	31.20
4	*2437.00	114.4 AV			1.00 H	43	83.20	31.20
5	2483.50	68.5 PK	74.0	-5.5	1.33 H	154	37.10	31.40
6	2483.50	46.9 AV	54.0	-7.1	1.33 H	154	15.50	31.40
7	4874.00	49.2 PK	74.0	-24.8	1.02 H	115	44.70	4.50
8	4874.00	36.6 AV	54.0	-17.4	1.02 H	115	32.10	4.50
9	5150.00	61.3 PK	74.0	-12.7	1.10 H	300	56.20	5.10
10	5150.00	47.2 AV	54.0	-6.8	1.10 H	300	42.10	5.10
11	*5180.00	113.0 PK			1.10 H	293	75.30	37.70
12	*5180.00	103.0 AV			1.10 H	293	65.30	37.70
13	#6906.00	59.2 PK	74.0	-14.8	1.06 H	32	49.50	9.70
14	#6906.00	51.8 AV	54.0	-2.2	1.06 H	32	42.10	9.70
15	#10360.00	62.1 PK	74.0	-11.9	1.51 H	156	44.60	17.50
16	#10360.00	48.0 AV	54.0	-6.0	1.51 H	156	30.50	17.50
17	#15065.00	71.6 PK	74.0	-2.4	1.03 H	330	50.10	21.50
18	#15065.00	52.7 AV	54.0	-1.3	1.03 H	330	31.20	21.50



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.00 V	156	34.10	31.00
2	2390.00	49.1 AV	54.0	-4.9	1.00 V	156	18.10	31.00
3	*2437.00	114.7 PK			1.12 V	331	83.50	31.20
4	*2437.00	110.6 AV			1.12 V	331	79.40	31.20
5	2483.50	72.3 PK	74.0	-1.7	1.02 V	141	40.90	31.40
6	2483.50	49.7 AV	54.0	-4.3	1.02 V	141	18.30	31.40
7	4874.00	56.7 PK	74.0	-17.3	1.01 V	155	52.20	4.50
8	4874.00	42.0 AV	54.0	-12.0	1.01 V	155	37.50	4.50
9	5150.00	62.4 PK	74.0	-11.6	1.05 V	25	57.30	5.10
10	5150.00	47.7 AV	54.0	-6.3	1.05 V	25	42.60	5.10
11	*5180.00	112.2 PK			1.02 V	255	74.50	37.70
12	*5180.00	101.8 AV			1.02 V	255	64.10	37.70
13	#6906.00	58.9 PK	74.0	-15.1	1.06 V	255	49.20	9.70
14	#6906.00	52.5 AV	54.0	-1.5	1.06 V	255	42.80	9.70
15	#10360.00	60.7 PK	74.0	-13.3	1.24 V	198	43.20	17.50
16	#10360.00	47.0 AV	54.0	-7.0	1.24 V	198	29.50	17.50
17	#15065.00	69.4 PK	74.0	-4.6	1.00 V	205	47.90	21.50
18	#15065.00	52.7 AV	54.0	-1.3	1.00 V	205	31.20	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11n (40MHz) CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A4		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.00 H	39	27.60	31.00
2	2390.00	46.1 AV	54.0	-7.9	1.00 H	39	15.10	31.00
3	*2437.00	117.7 PK			1.00 H	45	86.50	31.20
4	*2437.00	114.2 AV			1.00 H	45	83.00	31.20
5	2483.50	65.3 PK	74.0	-8.7	1.00 H	39	33.90	31.40
6	2483.50	49.5 AV	54.0	-4.5	1.00 H	39	18.10	31.40
7	4874.00	49.8 PK	74.0	-24.2	1.02 H	154	45.30	4.50
8	4874.00	37.0 AV	54.0	-17.0	1.02 H	154	32.50	4.50
9	5150.00	61.0 PK	74.0	-13.0	1.10 H	300	55.90	5.10
10	5150.00	47.2 AV	54.0	-6.8	1.10 H	300	42.10	5.10
11	*5180.00	113.9 PK			1.10 H	296	76.20	37.70
12	*5180.00	103.0 AV			1.10 H	296	65.30	37.70
13	#6906.00	57.9 PK	74.0	-16.1	1.06 H	35	48.20	9.70
14	#6906.00	51.6 AV	54.0	-2.4	1.06 H	35	41.90	9.70
15	#10360.00	60.4 PK	74.0	-13.6	1.55 H	150	42.90	17.50
16	#10360.00	47.7 AV	54.0	-6.3	1.55 H	150	30.20	17.50
17	#15065.00	71.1 PK	74.0	-2.9	1.02 H	325	49.60	21.50
18	#15065.00	52.7 AV	54.0	-1.3	1.02 H	325	31.20	21.50



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.2 PK	74.0	-5.8	1.00 V	355	37.20	31.00
2	2390.00	50.8 AV	54.0	-3.2	1.00 V	355	19.80	31.00
3	*2437.00	114.8 PK			1.10 V	331	83.60	31.20
4	*2437.00	110.6 AV			1.10 V	331	79.40	31.20
5	2483.50	71.0 PK	74.0	-3.0	1.19 V	5	39.60	31.40
6	2483.50	52.4 AV	54.0	-1.6	1.19 V	5	21.00	31.40
7	4874.00	50.7 PK	74.0	-23.3	1.51 V	102	46.20	4.50
8	4874.00	39.6 AV	54.0	-14.4	1.51 V	102	35.10	4.50
9	5150.00	51.6 PK	74.0	-22.4	1.05 V	25	46.50	5.10
10	5150.00	47.4 AV	54.0	-6.6	1.05 V	25	42.30	5.10
11	*5180.00	111.3 PK			1.03 V	255	73.60	37.70
12	*5180.00	101.6 AV			1.03 V	255	63.90	37.70
13	#6906.00	58.4 PK	74.0	-15.6	1.06 V	248	48.70	9.70
14	#6906.00	52.2 AV	54.0	-1.8	1.06 V	248	42.50	9.70
15	#10360.00	59.2 PK	74.0	-14.8	1.08 V	189	41.70	17.50
16	#10360.00	46.8 AV	54.0	-7.2	1.08 V	189	29.30	17.50
17	#15065.00	70.0 PK	74.0	-4.0	1.00 V	220	48.50	21.50
18	#15065.00	52.9 AV	54.0	-1.1	1.00 V	220	31.40	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A5		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.7 PK			1.00 H	43	86.50	31.20
2	*2437.00	114.4 AV			1.00 H	43	83.20	31.20
3	4874.00	52.0 PK	74.0	-22.0	1.11 H	14	47.50	4.50
4	4874.00	46.4 AV	54.0	-7.6	1.11 H	14	41.90	4.50
5	*5785.00	116.2 PK			1.10 H	285	77.60	38.60
6	*5785.00	106.4 AV			1.10 H	285	67.80	38.60
7	11570.00	65.9 PK	74.0	-8.1	1.15 H	294	46.90	19.00
8	11570.00	52.7 AV	54.0	-1.3	1.15 H	294	33.70	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.5 PK			1.12 V	332	83.30	31.20
2	*2437.00	110.6 AV			1.12 V	332	79.40	31.20
3	4874.00	54.7 PK	74.0	-19.3	1.28 V	340	50.20	4.50
4	4874.00	49.7 AV	54.0	-4.3	1.28 V	340	45.20	4.50
5	*5785.00	112.5 PK			1.00 V	335	73.90	38.60
6	*5785.00	102.9 AV			1.00 V	335	64.30	38.60
7	11570.00	64.2 PK	74.0	-9.8	1.10 V	337	45.20	19.00
8	11570.00	52.6 AV	54.0	-1.4	1.10 V	337	33.60	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11g CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A6		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.00 H	42	28.10	31.00
2	2390.00	46.0 AV	54.0	-8.0	1.00 H	42	15.00	31.00
3	*2437.00	117.8 PK			1.00 H	42	86.60	31.20
4	*2437.00	114.7 AV			1.00 H	42	83.50	31.20
5	2483.50	69.0 PK	74.0	-5.0	1.00 H	45	37.60	31.40
6	2483.50	47.9 AV	54.0	-6.1	1.00 H	45	16.50	31.40
7	4874.00	51.1 PK	74.0	-22.9	1.00 H	155	46.60	4.50
8	4874.00	38.0 AV	54.0	-16.0	1.00 H	155	33.50	4.50
9	*5785.00	116.4 PK			1.08 H	284	77.80	38.60
10	*5785.00	106.6 AV			1.08 H	284	68.00	38.60
11	11570.00	65.5 PK	74.0	-8.5	1.13 H	296	46.50	19.00
12	11570.00	52.3 AV	54.0	-1.7	1.13 H	296	33.30	19.00



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.8 PK	74.0	-8.2	1.00 V	351	34.80	31.00
2	2390.00	50.1 AV	54.0	-3.9	1.00 V	351	19.10	31.00
3	*2437.00	114.7 PK			1.10 V	335	83.50	31.20
4	*2437.00	110.5 AV			1.10 V	335	79.30	31.20
5	2483.50	72.7 PK	74.0	-1.3	1.18 V	15	41.30	31.40
6	2483.50	50.4 AV	54.0	-3.6	1.18 V	15	19.00	31.40
7	4874.00	56.7 PK	74.0	-17.3	1.05 V	154	52.20	4.50
8	4874.00	41.0 AV	54.0	-13.0	1.05 V	154	36.50	4.50
9	*5785.00	112.8 PK			1.00 V	330	74.20	38.60
10	*5785.00	102.6 AV			1.00 V	330	64.00	38.60
11	11570.00	64.6 PK	74.0	-9.4	1.10 V	332	45.60	19.00
12	11570.00	52.4 AV	54.0	-1.6	1.10 V	332	33.40	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11n (20MHz) CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A7		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	1.05 H	55	27.50	31.00
2	2390.00	45.2 AV	54.0	-8.8	1.05 H	55	14.20	31.00
3	*2437.00	117.8 PK			1.00 H	45	86.60	31.20
4	*2437.00	114.6 AV			1.00 H	45	83.40	31.20
5	2483.50	67.9 PK	74.0	-6.1	1.33 H	155	36.50	31.40
6	2483.50	46.8 AV	54.0	-7.2	1.33 H	155	15.40	31.40
7	4874.00	49.8 PK	74.0	-24.2	1.21 H	150	45.30	4.50
8	4874.00	38.0 AV	54.0	-16.0	1.21 H	150	33.50	4.50
9	*5785.00	116.3 PK			1.10 H	286	77.70	38.60
10	*5785.00	106.5 AV			1.10 H	286	67.90	38.60
11	11570.00	66.2 PK	74.0	-7.8	1.05 H	296	47.20	19.00
12	11570.00	52.5 AV	54.0	-1.5	1.05 H	296	33.50	19.00

**A D T**

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.4 PK	74.0	-9.6	1.03 V	155	33.40	31.00
2	2390.00	49.1 AV	54.0	-4.9	1.03 V	155	18.10	31.00
3	*2437.00	114.7 PK			1.12 V	335	83.50	31.20
4	*2437.00	110.7 AV			1.12 V	335	79.50	31.20
5	2483.50	72.2 PK	74.0	-1.8	1.02 V	115	40.80	31.40
6	2483.50	50.0 AV	54.0	-4.0	1.02 V	115	18.60	31.40
7	4874.00	55.2 PK	74.0	-18.8	1.02 V	155	50.70	4.50
8	4874.00	41.0 AV	54.0	-13.0	1.02 V	155	36.50	4.50
9	*5785.00	112.7 PK			1.00 V	336	74.10	38.60
10	*5785.00	103.1 AV			1.00 V	336	64.50	38.60
11	11570.00	65.1 PK	74.0	-8.9	1.10 V	339	46.10	19.00
12	11570.00	52.2 AV	54.0	-1.8	1.10 V	339	33.20	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11n (40MHz) CH 6	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A8		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	1.00 H	41	27.50	31.00
2	2390.00	45.7 AV	54.0	-8.3	1.00 H	41	14.70	31.00
3	*2437.00	117.6 PK			1.00 H	45	86.40	31.20
4	*2437.00	114.7 AV			1.00 H	45	83.50	31.20
5	2483.50	65.0 PK	74.0	-9.0	1.00 H	29	33.60	31.40
6	2483.50	48.9 AV	54.0	-5.1	1.00 H	29	17.50	31.40
7	4874.00	50.8 PK	74.0	-23.2	1.01 H	120	46.30	4.50
8	4874.00	38.0 AV	54.0	-16.0	1.01 H	120	33.50	4.50
9	*5785.00	116.4 PK			1.15 H	288	77.80	38.60
10	*5785.00	106.7 AV			1.15 H	288	68.10	38.60
11	11570.00	66.2 PK	74.0	-7.8	1.16 H	299	47.20	19.00
12	11570.00	52.3 AV	54.0	-1.7	1.16 H	299	33.30	19.00



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.0 PK	74.0	-15.0	1.00 V	45	28.00	31.00
2	2390.00	46.2 AV	54.0	-7.8	1.00 V	45	15.20	31.00
3	*2437.00	114.7 PK			1.15 V	336	83.50	31.20
4	*2437.00	110.7 AV			1.15 V	336	79.50	31.20
5	2483.50	65.0 PK	74.0	-9.0	1.00 V	33	33.60	31.40
6	2483.50	49.6 AV	54.0	-4.4	1.00 V	33	18.20	31.40
7	4874.00	49.2 PK	74.0	-24.8	1.00 V	210	44.70	4.50
8	4874.00	36.0 AV	54.0	-18.0	1.00 V	210	31.50	4.50
9	*5785.00	112.8 PK			1.00 V	338	74.20	38.60
10	*5785.00	103.2 AV			1.00 V	338	64.60	38.60
11	11570.00	65.1 PK	74.0	-8.9	1.16 V	335	46.10	19.00
12	11570.00	52.8 AV	54.0	-1.2	1.16 V	335	33.80	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A9		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.3 PK			1.00 H	36	85.10	31.20
2	*2437.00	113.4 AV			1.00 H	36	82.20	31.20
3	4874.00	47.0 PK	74.0	-27.0	1.25 H	336	42.50	4.50
4	4874.00	37.7 AV	54.0	-16.3	1.25 H	336	33.20	4.50
5	5150.00	60.7 PK	74.0	-13.3	1.12 H	296	55.60	5.10
6	5150.00	46.6 AV	54.0	-7.4	1.12 H	296	41.50	5.10
7	*5180.00	112.5 PK			1.15 H	301	74.80	37.70
8	*5180.00	102.5 AV			1.15 H	301	64.80	37.70
9	#6906.00	56.8 PK	74.0	-17.2	1.30 H	289	47.10	9.70
10	#6906.00	49.9 AV	54.0	-4.1	1.30 H	289	40.20	9.70
11	#10360.00	60.7 PK	74.0	-13.3	1.09 H	15	43.20	17.50
12	#10360.00	48.5 AV	54.0	-5.5	1.09 H	15	31.00	17.50
13	#15065.00	70.8 PK	74.0	-3.2	1.25 H	349	49.30	21.50
14	#15065.00	53.0 AV	54.0	-1.0	1.25 H	349	31.50	21.50



A D T

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.1 PK			1.15 V	334	83.90	31.20
2	*2437.00	111.2 AV			1.15 V	334	80.00	31.20
3	4874.00	48.0 PK	74.0	-26.0	1.06 V	5	43.50	4.50
4	4874.00	33.4 AV	54.0	-20.6	1.06 V	5	28.90	4.50
5	5150.00	66.3 PK	74.0	-7.7	1.05 V	315	61.20	5.10
6	5150.00	48.6 AV	54.0	-5.4	1.05 V	315	43.50	5.10
7	*5180.00	110.6 PK			1.05 V	6	72.90	37.70
8	*5180.00	101.2 AV			1.05 V	6	63.50	37.70
9	#6906.00	57.3 PK	74.0	-16.7	1.09 V	26	47.60	9.70
10	#6906.00	52.3 AV	54.0	-1.7	1.09 V	26	42.60	9.70
11	#10360.00	61.2 PK	74.0	-12.8	1.00 V	35	43.70	17.50
12	#10360.00	48.0 AV	54.0	-6.0	1.00 V	35	30.50	17.50
13	#15065.00	68.6 PK	74.0	-5.4	1.00 V	332	47.10	21.50
14	#15065.00	52.8 AV	54.0	-1.2	1.00 V	332	31.30	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11n (20MHz) CH 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A10		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.1 PK			1.00 H	45	85.90	31.20
2	*2437.00	113.8 AV			1.00 H	45	82.60	31.20
3	4874.00	48.4 PK	74.0	-25.6	1.02 H	154	43.90	4.50
4	4874.00	36.0 AV	54.0	-18.0	1.02 H	154	31.50	4.50
5	5150.00	61.9 PK	74.0	-12.1	1.15 H	300	56.80	5.10
6	5150.00	46.6 AV	54.0	-7.4	1.15 H	300	41.50	5.10
7	*5180.00	112.9 PK			1.15 H	305	75.20	37.70
8	*5180.00	102.9 AV			1.15 H	305	65.20	37.70
9	#6906.00	57.9 PK	74.0	-16.1	1.33 H	289	48.20	9.70
10	#6906.00	50.5 AV	54.0	-3.5	1.33 H	289	40.80	9.70
11	#10360.00	61.0 PK	74.0	-13.0	1.09 H	24	43.50	17.50
12	#10360.00	48.5 AV	54.0	-5.5	1.09 H	24	31.00	17.50
13	#15065.00	71.3 PK	74.0	-2.7	1.21 H	344	49.80	21.50
14	#15065.00	52.6 AV	54.0	-1.4	1.21 H	344	31.10	21.50

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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.8 PK			1.08 V	330	82.60	31.20
2	*2437.00	110.2 AV			1.08 V	330	79.00	31.20
3	4874.00	45.8 PK	74.0	-28.2	1.05 V	151	41.30	4.50
4	4874.00	34.4 AV	54.0	-19.6	1.05 V	151	29.90	4.50
5	5150.00	67.0 PK	74.0	-7.0	1.06 V	311	61.90	5.10
6	5150.00	48.7 AV	54.0	-5.3	1.06 V	311	43.60	5.10
7	*5180.00	110.7 PK			1.06 V	20	73.00	37.70
8	*5180.00	100.8 AV			1.06 V	20	63.10	37.70
9	#6906.00	57.9 PK	74.0	-16.1	1.00 V	25	48.20	9.70
10	#6906.00	52.2 AV	54.0	-1.8	1.00 V	25	42.50	9.70
11	#10360.00	60.7 PK	74.0	-13.3	1.00 V	232	43.20	17.50
12	#10360.00	47.7 AV	54.0	-6.3	1.00 V	232	30.20	17.50
13	#15065.00	69.3 PK	74.0	-4.7	1.00 V	330	47.80	21.50
14	#15065.00	52.7 AV	54.0	-1.3	1.00 V	330	31.20	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11n (40MHz) CH 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A11		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.5 PK			1.05 H	42	85.30	31.20
2	*2437.00	113.3 AV			1.05 H	42	82.10	31.20
3	4874.00	46.8 PK	74.0	-27.2	1.02 H	336	42.30	4.50
4	4874.00	35.7 AV	54.0	-18.3	1.02 H	336	31.20	4.50
5	5150.00	62.6 PK	74.0	-11.4	1.03 H	52	57.50	5.10
6	5150.00	48.2 AV	54.0	-5.8	1.03 H	52	43.10	5.10
7	*5180.00	112.9 PK			1.03 H	301	75.20	37.70
8	*5180.00	103.0 AV			1.03 H	301	65.30	37.70
9	*5190.00	86.3 PK			1.01 H	42	48.50	37.80
10	*5190.00	75.4 AV			1.01 H	42	37.60	37.80
11	#6906.00	57.7 PK	74.0	-16.3	1.10 H	26	48.00	9.70
12	#6906.00	52.9 AV	54.0	-1.1	1.10 H	26	43.20	9.70
13	#10360.00	61.0 PK	74.0	-13.0	1.06 H	15	43.50	17.50
14	#10360.00	48.6 AV	54.0	-5.4	1.06 H	15	31.10	17.50
15	#10380.00	63.2 PK	74.0	-10.8	1.12 H	99	45.60	17.60
16	#10380.00	48.0 AV	54.0	-6.0	1.12 H	99	30.40	17.60
17	#15065.00	69.7 PK	74.0	-4.3	1.02 H	330	48.20	21.50
18	#15065.00	52.8 AV	54.0	-1.2	1.02 H	330	31.30	21.50



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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			1.10 V	341	83.50	31.20
2	*2437.00	110.4 AV			1.10 V	341	79.20	31.20
3	4874.00	47.0 PK	74.0	-27.0	1.05 V	6	42.50	4.50
4	4874.00	34.6 AV	54.0	-19.4	1.05 V	6	30.10	4.50
5	5150.00	68.3 PK	74.0	-5.7	1.05 V	315	63.20	5.10
6	5150.00	50.4 AV	54.0	-3.6	1.05 V	315	45.30	5.10
7	*5180.00	110.9 PK			1.03 V	10	73.20	37.70
8	*5180.00	101.0 AV			1.03 V	10	63.30	37.70
9	*5190.00	99.9 PK			1.00 V	305	62.10	37.80
10	*5190.00	89.7 AV			1.00 V	305	51.90	37.80
11	#6906.00	57.4 PK	74.0	-16.6	1.03 V	25	47.70	9.70
12	#6906.00	52.0 AV	54.0	-2.0	1.03 V	25	42.30	9.70
13	#10360.00	60.7 PK	74.0	-13.3	1.00 V	229	43.20	17.50
14	#10360.00	47.7 AV	54.0	-6.3	1.00 V	229	30.20	17.50
15	#10380.00	63.8 PK	74.0	-10.2	1.14 V	132	46.20	17.60
16	#10380.00	48.4 AV	54.0	-5.6	1.14 V	132	30.80	17.60
17	#15065.00	69.4 PK	74.0	-4.6	1.00 V	331	47.90	21.50
18	#15065.00	52.9 AV	54.0	-1.1	1.00 V	331	31.40	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A12		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.4 PK			1.00 H	45	86.20	31.20
2	*2437.00	113.9 AV			1.00 H	45	82.70	31.20
3	4874.00	47.1 PK	74.0	-26.9	1.02 H	151	42.60	4.50
4	4874.00	35.8 AV	54.0	-18.2	1.02 H	151	31.30	4.50
5	*5785.00	116.8 PK			1.10 H	291	78.20	38.60
6	*5785.00	107.1 AV			1.10 H	291	68.50	38.60
7	11570.00	66.2 PK	74.0	-7.8	1.21 H	299	47.20	19.00
8	11570.00	52.9 AV	54.0	-1.1	1.21 H	299	33.90	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.8 PK			1.10 V	345	83.60	31.20
2	*2437.00	110.8 AV			1.10 V	345	79.60	31.20
3	4874.00	47.2 PK	74.0	-26.8	1.02 V	215	42.70	4.50
4	4874.00	35.0 AV	54.0	-19.0	1.02 V	215	30.50	4.50
5	*5785.00	116.2 PK			1.09 V	298	77.60	38.60
6	*5785.00	106.5 AV			1.09 V	298	67.90	38.60
7	11570.00	66.2 PK	74.0	-7.8	1.21 V	298	47.20	19.00
8	11570.00	52.6 AV	54.0	-1.4	1.21 V	298	33.60	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11n (20MHz) CH 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A13		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.5 PK			1.00 H	45	86.30	31.20
2	*2437.00	114.1 AV			1.00 H	45	82.90	31.20
3	4874.00	47.4 PK	74.0	-26.6	1.22 H	335	42.90	4.50
4	4874.00	35.7 AV	54.0	-18.3	1.22 H	335	31.20	4.50
5	*5785.00	116.5 PK			1.08 H	285	77.90	38.60
6	*5785.00	106.5 AV			1.08 H	285	67.90	38.60
7	11570.00	65.3 PK	74.0	-8.7	1.21 H	286	46.30	19.00
8	11570.00	52.5 AV	54.0	-1.5	1.21 H	286	33.50	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.9 PK			1.12 V	346	83.70	31.20
2	*2437.00	111.0 AV			1.12 V	346	79.80	31.20
3	4874.00	46.2 PK	74.0	-27.8	1.02 V	220	41.70	4.50
4	4874.00	34.5 AV	54.0	-19.5	1.02 V	220	30.00	4.50
5	*5785.00	116.5 PK			1.05 V	300	77.90	38.60
6	*5785.00	106.8 AV			1.05 V	300	68.20	38.60
7	11570.00	67.6 PK	74.0	-6.4	1.22 V	301	67.60	19.00
8	11570.00	52.5 AV	54.0	-1.5	1.22 V	301	33.50	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11n (40MHz) CH 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A14		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.8 PK			1.00 H	43	86.60	31.20
2	*2437.00	114.1 AV			1.00 H	43	82.90	31.20
3	4874.00	47.8 PK	74.0	-26.2	1.00 H	204	43.30	4.50
4	4874.00	35.0 AV	54.0	-19.0	1.00 H	204	30.50	4.50
5	*5785.00	116.8 PK			1.03 H	290	78.20	38.60
6	*5785.00	106.8 AV			1.03 H	290	68.20	38.60
7	*5795.00	96.9 PK			1.15 H	326	58.30	38.60
8	*5795.00	85.9 AV			1.15 H	326	47.30	38.60
9	#5850.00	61.5 PK	76.9	-15.4	1.00 H	300	22.80	38.70
10	#5850.00	50.5 AV	65.9	-15.4	1.00 H	300	11.80	38.70
11	11570.00	64.4 PK	74.0	-9.6	1.10 H	345	45.40	19.00
12	11570.00	52.6 AV	54.0	-1.4	1.10 H	345	33.60	19.00
13	11590.00	61.5 PK	74.0	-12.5	1.02 H	205	42.50	19.00
14	11590.00	48.1 AV	54.0	-5.9	1.02 H	205	29.10	19.00



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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			1.10 V	342	83.50	31.20
2	*2437.00	111.0 AV			1.10 V	342	79.80	31.20
3	4874.00	47.1 PK	74.0	-26.9	1.02 V	151	42.60	4.50
4	4874.00	35.0 AV	54.0	-19.0	1.02 V	151	30.50	4.50
5	*5785.00	112.8 PK			1.01 V	355	74.20	38.60
6	*5785.00	103.7 AV			1.01 V	355	65.10	38.60
7	*5795.00	107.1 PK			1.00 V	301	68.50	38.60
8	*5795.00	95.9 AV			1.00 V	301	57.30	38.60
9	#5850.00	71.7 PK	87.1	-15.4	1.00 V	300	33.00	38.70
10	#5850.00	60.5 AV	75.9	-15.4	1.00 V	300	21.80	38.70
11	11570.00	64.9 PK	74.0	-9.1	1.06 V	335	45.90	19.00
12	11570.00	52.6 AV	54.0	-1.4	1.06 V	335	33.60	19.00
13	11590.00	64.2 PK	74.0	-9.8	1.22 V	75	45.20	19.00
14	11590.00	49.0 AV	54.0	-5.0	1.22 V	75	30.00	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A15		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.8 PK			1.00 H	43	86.60	31.20
2	*2437.00	114.1 AV			1.00 H	43	82.90	31.20
3	4874.00	47.0 PK	74.0	-27.0	1.05 H	121	42.50	4.50
4	4874.00	35.7 AV	54.0	-18.3	1.05 H	121	31.20	4.50
5	5150.00	61.3 PK	74.0	-12.7	1.15 H	300	56.20	5.10
6	5150.00	46.4 AV	54.0	-7.6	1.15 H	300	41.30	5.10
7	*5180.00	113.0 PK			1.10 H	296	75.30	37.70
8	*5180.00	103.0 AV			1.10 H	296	65.30	37.70
9	#5725.00	73.8 PK	79.0	-5.2	1.44 H	335	35.30	38.50
10	#5725.00	63.8 AV	69.0	-5.2	1.44 H	335	25.30	38.50
11	*5745.00	99.0 PK			1.45 H	336	60.50	38.50
12	*5745.00	89.0 AV			1.45 H	336	50.50	38.50
13	#6906.00	57.2 PK	79.0	-21.8	1.32 H	285	47.50	9.70
14	#6906.00	50.7 AV	69.0	-18.3	1.32 H	285	41.00	9.70
15	#10360.00	60.7 PK	74.0	-13.3	1.06 H	15	43.20	17.50
16	#10360.00	48.7 AV	54.0	-5.3	1.06 H	15	31.20	17.50
17	11490.00	64.6 PK	74.0	-9.4	1.33 H	65	45.60	19.00
18	11490.00	48.5 AV	54.0	-5.5	1.33 H	65	29.50	19.00
19	#15065.00	71.4 PK	79.0	-7.6	1.21 H	345	49.90	21.50
20	#15065.00	53.0 AV	69.0	-16.0	1.21 H	345	31.50	21.50



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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			1.00 V	344	83.50	31.20
2	*2437.00	110.9 AV			1.00 V	344	79.70	31.20
3	4874.00	47.1 PK	74.0	-26.9	1.00 V	21	42.60	4.50
4	4874.00	34.6 AV	54.0	-19.4	1.00 V	21	30.10	4.50
5	5150.00	62.3 PK	74.0	-11.7	1.03 V	10	57.20	5.10
6	5150.00	48.2 AV	54.0	-5.8	1.03 V	10	43.10	5.10
7	*5180.00	111.0 PK			1.03 V	15	73.30	37.70
8	*5180.00	101.2 AV			1.03 V	15	63.50	37.70
9	#5725.00	86.2 PK	91.4	-5.2	1.44 V	335	47.70	38.50
10	#5725.00	75.8 AV	81.0	-5.2	1.44 V	335	37.30	38.50
11	*5745.00	111.4 PK			1.00 V	305	72.90	38.50
12	*5745.00	101.0 AV			1.00 V	305	62.50	38.50
13	#6906.00	57.9 PK	91.4	-33.5	1.06 V	22	48.20	9.70
14	#6906.00	52.2 AV	81.0	-28.8	1.06 V	22	42.50	9.70
15	#10360.00	60.7 PK	74.0	-13.3	1.00 V	222	43.20	17.50
16	#10360.00	47.6 AV	54.0	-6.4	1.00 V	222	30.10	17.50
17	11490.00	64.3 PK	74.0	-9.7	1.00 V	62	45.30	19.00
18	11490.00	48.7 AV	54.0	-5.3	1.00 V	62	29.70	19.00
19	#15065.00	69.3 PK	91.4	-22.1	1.00 V	331	47.80	21.50
20	#15065.00	52.9 AV	81.0	-28.1	1.00 V	331	31.40	21.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang
TEST MODE	A16		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.7 PK			1.00 H	35	86.50	31.20
2	*2437.00	114.3 AV			1.00 H	35	83.10	31.20
3	4874.00	47.2 PK	74.0	-26.8	1.06 H	251	42.70	4.50
4	4874.00	35.7 AV	54.0	-18.3	1.06 H	251	31.20	4.50
5	*5200.00	98.3 PK			1.55 H	336	60.50	37.80
6	*5200.00	87.1 AV			1.55 H	336	49.30	37.80
7	*5785.00	116.5 PK			1.09 H	289	77.90	38.60
8	*5785.00	106.7 AV			1.09 H	289	68.10	38.60
9	#10400.00	63.0 PK	74.0	-11.0	1.00 H	45	45.20	17.80
10	#10400.00	47.9 AV	54.0	-6.1	1.00 H	45	30.10	17.80
11	11570.00	65.9 PK	74.0	-8.1	1.24 H	298	46.90	19.00
12	11570.00	52.9 AV	54.0	-1.1	1.24 H	298	33.90	19.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			1.00 V	336	83.50	31.20
2	*2437.00	111.1 AV			1.00 V	336	79.90	31.20
3	4874.00	46.7 PK	74.0	-27.3	1.05 V	2	42.20	4.50
4	4874.00	34.6 AV	54.0	-19.4	1.05 V	2	30.10	4.50
5	*5200.00	110.6 PK			1.00 V	305	72.80	37.80
6	*5200.00	100.6 AV			1.00 V	305	62.80	37.80
7	*5785.00	112.8 PK			1.02 V	358	74.20	38.60
8	*5785.00	103.7 AV			1.02 V	358	65.10	38.60
9	#10400.00	62.4 PK	74.0	-11.6	1.06 V	71	44.60	17.80
10	#10400.00	49.6 AV	54.0	-4.4	1.06 V	71	31.80	17.80
11	11570.00	64.6 PK	74.0	-9.4	1.10 V	345	45.60	19.00
12	11570.00	52.6 AV	54.0	-1.4	1.10 V	345	33.60	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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Below 1GHz data

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.6 QP	40.0	-13.4	1.25 H	307	41.40	-14.80
2	154.09	20.2 QP	43.5	-23.3	1.00 H	61	33.70	-13.50
3	249.17	28.0 QP	46.0	-18.0	1.50 H	199	42.40	-14.40
4	375.29	28.4 QP	46.0	-17.6	1.25 H	212	39.40	-11.00
5	600.38	36.7 QP	46.0	-9.3	1.00 H	15	43.10	-6.40
6	625.60	35.0 QP	46.0	-11.0	1.50 H	30	40.70	-5.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.7 QP	40.0	-13.3	1.25 V	288	41.50	-14.80
2	119.16	19.9 QP	43.5	-23.6	1.00 V	26	36.20	-16.30
3	262.75	21.8 QP	46.0	-24.2	1.50 V	81	35.60	-13.80
4	499.48	23.5 QP	46.0	-22.5	1.00 V	149	32.00	-8.50
5	600.38	37.0 QP	46.0	-9.0	1.50 V	280	43.40	-6.40
6	875.91	29.3 QP	46.0	-16.7	1.25 V	261	30.80	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.8 QP	40.0	-13.2	1.25 H	358	41.60	-14.80
2	179.31	18.2 QP	43.5	-25.3	1.00 H	91	33.20	-15.00
3	256.93	27.4 QP	46.0	-18.6	1.50 H	207	41.50	-14.10
4	375.29	25.3 QP	46.0	-20.7	1.00 H	193	36.30	-11.00
5	600.38	35.4 QP	46.0	-10.6	1.25 H	127	41.80	-6.40
6	875.91	30.7 QP	46.0	-15.3	1.50 H	245	32.20	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.3 QP	40.0	-13.7	1.25 V	244	41.10	-14.80
2	179.31	36.2 QP	43.5	-7.3	1.00 V	274	51.20	-15.00
3	264.69	22.5 QP	46.0	-23.5	1.50 V	241	36.20	-13.70
4	359.77	26.4 QP	46.0	-19.6	1.00 V	274	37.80	-11.40
5	600.38	36.0 QP	46.0	-10.0	1.25 V	343	42.40	-6.40
6	899.20	32.1 QP	46.0	-13.9	1.50 V	157	32.90	-0.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.6 QP	40.0	-13.4	1.25 H	230	41.40	-14.80
2	249.17	29.3 QP	46.0	-16.7	1.00 H	230	43.70	-14.40
3	390.81	34.4 QP	46.0	-11.6	1.50 H	18	45.20	-10.80
4	600.38	36.6 QP	46.0	-9.4	1.00 H	13	43.00	-6.40
5	720.68	39.5 QP	46.0	-6.5	1.25 H	17	43.90	-4.40
6	837.11	40.4 QP	46.0	-5.6	1.50 H	220	42.50	-2.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.66	26.4 QP	40.0	-13.6	1.25 V	123	41.60	-15.20
2	124.98	21.0 QP	43.5	-22.5	1.00 V	124	36.80	-15.80
3	264.69	23.1 QP	46.0	-22.9	1.50 V	84	36.80	-13.70
4	600.38	32.6 QP	46.0	-13.4	1.00 V	269	39.00	-6.40
5	784.72	26.6 QP	46.0	-19.4	1.50 V	273	29.20	-2.60
6	875.91	30.3 QP	46.0	-15.7	1.25 V	160	31.80	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A4		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.4 QP	40.0	-13.6	1.25 H	189	41.20	-14.80
2	249.17	26.8 QP	46.0	-19.2	1.00 H	221	41.20	-14.40
3	326.78	26.2 QP	46.0	-19.8	1.50 H	103	37.90	-11.70
4	600.38	36.4 QP	46.0	-9.6	1.50 H	125	42.80	-6.40
5	625.60	34.7 QP	46.0	-11.3	1.25 H	29	40.40	-5.70
6	875.91	30.8 QP	46.0	-15.2	1.50 H	8	32.30	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.7 QP	40.0	-13.3	1.25 V	268	41.50	-14.80
2	119.16	20.0 QP	43.5	-23.5	1.00 V	7	36.30	-16.30
3	249.17	23.0 QP	46.0	-23.0	1.50 V	119	37.40	-14.40
4	375.29	22.2 QP	46.0	-23.8	1.25 V	80	33.20	-11.00
5	600.38	32.9 QP	46.0	-13.1	1.00 V	268	39.30	-6.40
6	784.72	27.2 QP	46.0	-18.8	1.50 V	35	29.80	-2.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A5		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.4 QP	40.0	-13.6	1.25 H	7	41.20	-14.80
2	249.17	28.6 QP	46.0	-17.4	1.00 H	225	43.00	-14.40
3	299.62	26.0 QP	46.0	-20.0	1.50 H	61	38.40	-12.40
4	600.38	35.9 QP	46.0	-10.1	1.00 H	130	42.30	-6.40
5	749.79	30.2 QP	46.0	-15.8	1.50 H	335	33.70	-3.50
6	899.20	32.0 QP	46.0	-14.0	1.50 H	333	32.80	-0.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.5 QP	40.0	-13.5	1.25 V	290	41.30	-14.80
2	119.16	19.8 QP	43.5	-23.7	1.00 V	36	36.10	-16.30
3	264.69	21.9 QP	46.0	-24.1	1.50 V	254	35.60	-13.70
4	375.29	21.9 QP	46.0	-24.1	1.00 V	230	32.90	-11.00
5	600.38	33.4 QP	46.0	-12.6	1.25 V	267	39.80	-6.40
6	899.20	31.4 QP	46.0	-14.6	1.50 V	41	32.20	-0.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A6		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	26.8 QP	40.0	-13.2	1.25 H	170	41.60	-14.80
2	249.17	29.2 QP	46.0	-16.8	1.00 H	241	43.60	-14.40
3	357.83	27.8 QP	46.0	-18.2	1.50 H	86	39.30	-11.50
4	600.38	38.4 QP	46.0	-7.6	1.00 H	20	44.80	-6.40
5	625.60	35.4 QP	46.0	-10.6	1.25 H	35	41.10	-5.70
6	875.91	31.5 QP	46.0	-14.5	1.50 H	243	33.00	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	25.9 QP	40.0	-14.1	1.25 V	301	40.70	-14.80
2	119.16	19.5 QP	43.5	-24.0	1.00 V	173	35.80	-16.30
3	249.17	23.0 QP	46.0	-23.0	1.50 V	108	37.40	-14.40
4	600.38	33.0 QP	46.0	-13.0	1.00 V	272	39.40	-6.40
5	771.13	26.5 QP	46.0	-19.5	1.50 V	177	29.30	-2.80
6	953.53	29.4 QP	46.0	-16.6	1.50 V	118	29.30	0.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	27.8 QP	40.0	-12.2	1.25 H	93	42.60	-14.80
2	140.50	23.7 QP	43.5	-19.8	1.00 H	206	38.40	-14.70
3	282.15	30.5 QP	46.0	-15.5	1.50 H	96	43.30	-12.80
4	375.29	27.4 QP	46.0	-18.6	1.25 H	212	38.40	-11.00
5	625.60	37.7 QP	46.0	-8.3	1.00 H	29	43.40	-5.70
6	749.79	28.2 QP	46.0	-17.8	1.50 H	99	31.70	-3.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	36.7 QP	40.0	-3.3	1.25 V	18	51.50	-14.80
2	231.70	25.2 QP	46.0	-20.8	1.00 V	248	41.10	-15.90
3	282.15	28.2 QP	46.0	-17.8	1.50 V	241	41.00	-12.80
4	375.29	25.7 QP	46.0	-20.3	1.00 V	202	36.70	-11.00
5	625.60	33.5 QP	46.0	-12.5	1.25 V	82	39.20	-5.70
6	875.91	31.7 QP	46.0	-14.3	1.50 V	133	33.20	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	28.0 QP	40.0	-12.0	1.25 H	66	42.80	-14.80
2	140.50	23.7 QP	43.5	-19.8	1.00 H	229	38.40	-14.70
3	282.15	30.1 QP	46.0	-15.9	1.50 H	90	42.90	-12.80
4	375.29	27.4 QP	46.0	-18.6	1.00 H	195	38.40	-11.00
5	625.60	38.2 QP	46.0	-7.8	1.25 H	24	43.90	-5.70
6	875.91	31.6 QP	46.0	-14.4	1.50 H	10	33.10	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	36.9 QP	40.0	-3.1	1.25 V	5	51.70	-14.80
2	262.75	26.9 QP	46.0	-19.1	1.00 V	234	40.70	-13.80
3	280.21	27.5 QP	46.0	-18.5	1.50 V	246	40.30	-12.80
4	375.29	26.0 QP	46.0	-20.0	1.25 V	226	37.00	-11.00
5	625.60	33.2 QP	46.0	-12.8	1.00 V	79	38.90	-5.70
6	875.91	32.7 QP	46.0	-13.3	1.50 V	131	34.20	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	28.7 QP	40.0	-11.3	1.25 H	67	43.50	-14.80
2	159.91	22.8 QP	43.5	-20.7	1.00 H	226	36.50	-13.70
3	270.51	30.9 QP	46.0	-15.1	1.50 H	94	44.10	-13.20
4	375.29	30.1 QP	46.0	-15.9	1.25 H	80	41.10	-11.00
5	625.60	37.2 QP	46.0	-8.8	1.00 H	31	42.90	-5.70
6	720.68	38.1 QP	46.0	-7.9	1.50 H	165	42.50	-4.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	37.2 QP	40.0	-2.8	1.25 V	11	52.00	-14.80
2	266.63	28.4 QP	46.0	-17.6	1.00 V	228	42.00	-13.60
3	375.29	31.4 QP	46.0	-14.6	1.50 V	248	42.40	-11.00
4	600.38	32.4 QP	46.0	-13.6	1.00 V	266	38.80	-6.40
5	625.60	33.9 QP	46.0	-12.1	1.50 V	324	39.60	-5.70
6	875.91	30.9 QP	46.0	-15.1	1.25 V	122	32.40	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B4		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	27.8 QP	40.0	-12.2	1.25 H	54	42.60	-14.80
2	157.97	22.7 QP	43.5	-20.8	1.00 H	225	36.80	-14.10
3	282.15	30.5 QP	46.0	-15.5	1.50 H	95	43.30	-12.80
4	375.29	31.2 QP	46.0	-14.8	1.00 H	201	42.20	-11.00
5	625.60	36.6 QP	46.0	-9.4	1.25 H	35	42.30	-5.70
6	875.91	32.3 QP	46.0	-13.7	1.50 H	245	33.80	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	36.7 QP	40.0	-3.3	1.25 V	344	51.50	-14.80
2	264.69	27.0 QP	46.0	-19.0	1.00 V	246	40.70	-13.70
3	375.29	29.2 QP	46.0	-16.8	1.50 V	267	40.20	-11.00
4	600.38	32.8 QP	46.0	-13.2	1.25 V	341	39.20	-6.40
5	788.60	27.0 QP	46.0	-19.0	1.00 V	166	29.60	-2.60
6	875.91	32.4 QP	46.0	-13.6	1.50 V	136	33.90	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B5		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	27.7 QP	40.0	-12.3	1.25 H	242	42.50	-14.80
2	140.50	22.4 QP	43.5	-21.1	1.50 H	238	37.10	-14.70
3	282.15	30.4 QP	46.0	-15.6	1.00 H	94	43.20	-12.80
4	375.29	30.6 QP	46.0	-15.4	1.25 H	194	41.60	-11.00
5	625.60	37.7 QP	46.0	-8.3	1.00 H	29	43.40	-5.70
6	875.91	31.8 QP	46.0	-14.2	1.50 H	241	33.30	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	36.7 QP	40.0	-3.3	1.25 V	359	51.50	-14.80
2	284.09	27.5 QP	46.0	-18.5	1.00 V	238	40.30	-12.80
3	375.29	29.6 QP	46.0	-16.4	1.50 V	253	40.60	-11.00
4	600.38	32.2 QP	46.0	-13.8	1.00 V	111	38.60	-6.40
5	693.52	26.0 QP	46.0	-20.0	1.25 V	280	30.90	-4.90
6	875.91	30.5 QP	46.0	-15.5	1.50 V	124	32.00	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B6		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	28.0 QP	40.0	-12.0	1.25 H	70	42.80	-14.80
2	156.03	22.4 QP	43.5	-21.1	1.00 H	238	36.30	-13.90
3	282.15	30.4 QP	46.0	-15.6	1.50 H	93	43.20	-12.80
4	375.29	30.6 QP	46.0	-15.4	1.25 H	208	41.60	-11.00
5	625.60	37.2 QP	46.0	-8.8	1.00 H	28	42.90	-5.70
6	875.91	32.1 QP	46.0	-13.9	1.50 H	12	33.60	-1.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	37.5 QP	40.0	-2.5	1.25 V	325	52.30	-14.80
2	280.21	27.6 QP	46.0	-18.4	1.00 V	253	40.40	-12.80
3	375.29	29.1 QP	46.0	-16.9	1.50 V	250	40.10	-11.00
4	625.60	32.5 QP	46.0	-13.5	1.00 V	304	38.20	-5.70
5	773.07	26.3 QP	46.0	-19.7	1.25 V	174	29.10	-2.80
6	875.91	30.9 QP	46.0	-15.1	1.50 V	134	32.40	-1.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
– Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 08, 2013	Nov. 07, 2014
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 08, 2013	Jul. 07, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

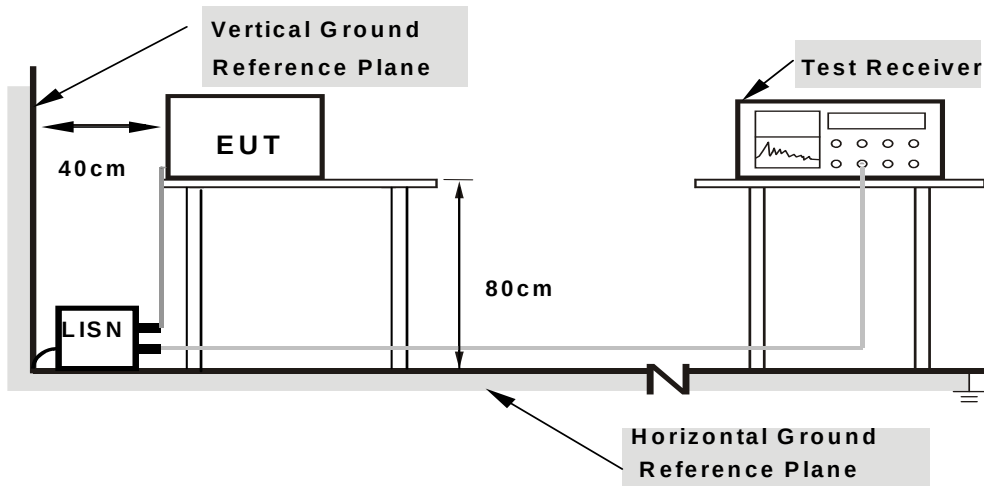
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

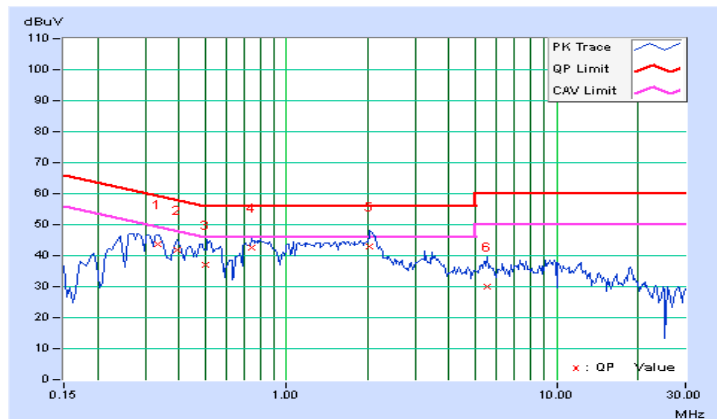
4.2.7 TEST RESULTS

CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.33359	0.21	43.32	30.97	43.53	31.18	59.36	49.36	-15.83	-18.18
2	0.39609	0.22	41.63	29.29	41.85	29.51	57.93	47.93	-16.09	-18.43
3	0.50000	0.23	36.96	23.14	37.19	23.37	56.00	46.00	-18.81	-22.63
4	0.73984	0.26	42.41	31.62	42.67	31.88	56.00	46.00	-13.33	-14.12
5	2.03906	0.32	42.57	33.36	42.89	33.68	56.00	46.00	-13.11	-12.32
6	5.52344	0.42	29.60	16.73	30.02	17.15	60.00	50.00	-29.98	-32.85

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

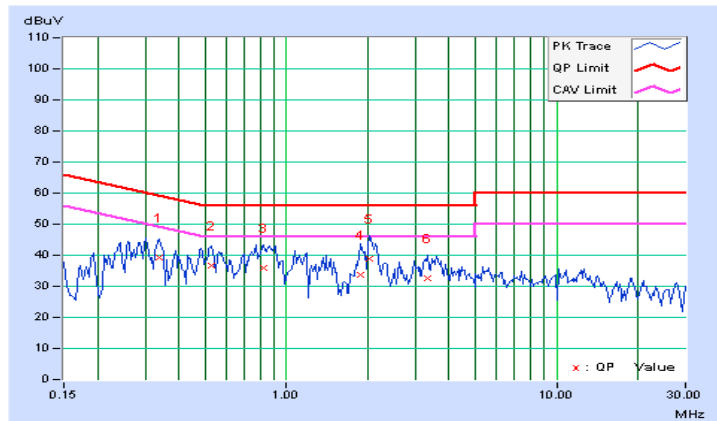


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.33750	0.24	39.05	26.89	39.29	27.13	59.26	49.26	-19.97	-22.13
2	0.52891	0.27	36.42	23.88	36.69	24.15	56.00	46.00	-19.31	-21.85
3	0.82188	0.26	35.80	22.51	36.06	22.77	56.00	46.00	-19.94	-23.23
4	1.88672	0.31	33.46	19.28	33.77	19.59	56.00	46.00	-22.23	-26.41
5	2.03125	0.32	38.41	23.45	38.73	23.77	56.00	46.00	-17.27	-22.23
6	3.33984	0.41	32.03	18.39	32.44	18.80	56.00	46.00	-23.56	-27.20

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

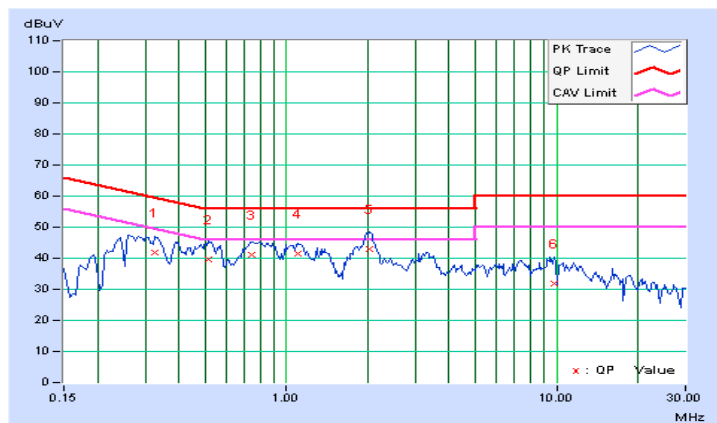


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.32578	0.21	41.65	25.98	41.86	26.19	59.56	49.56	-17.70	-23.37
2	0.51328	0.23	39.57	26.28	39.80	26.51	56.00	46.00	-16.20	-19.49
3	0.73984	0.26	41.00	28.14	41.26	28.40	56.00	46.00	-14.74	-17.60
4	1.10547	0.29	41.12	27.72	41.41	28.01	56.00	46.00	-14.59	-17.99
5	2.01953	0.32	42.48	31.41	42.80	31.73	56.00	46.00	-13.20	-14.27
6	9.83203	0.49	31.36	19.29	31.85	19.78	60.00	50.00	-28.15	-30.22

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

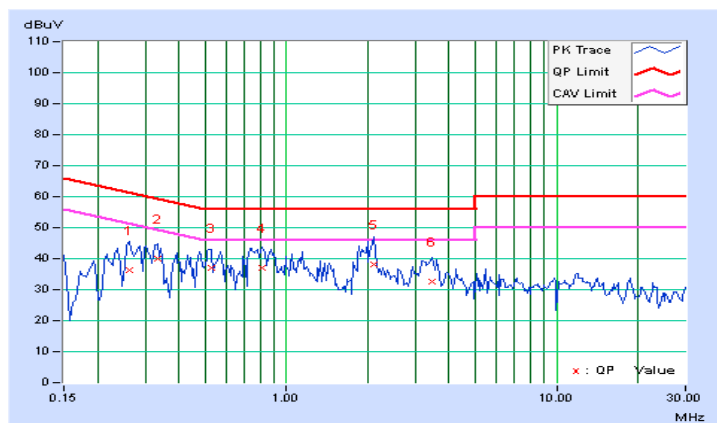


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26328	0.22	35.97	16.60	36.19	16.82	61.33	51.33	-25.14	-34.51
2	0.33359	0.24	39.60	26.53	39.84	26.77	59.36	49.36	-19.52	-22.59
3	0.52500	0.27	36.62	24.51	36.89	24.78	56.00	46.00	-19.11	-21.22
4	0.81797	0.26	36.63	23.65	36.89	23.91	56.00	46.00	-19.11	-22.09
5	2.10156	0.33	37.83	23.37	38.16	23.70	56.00	46.00	-17.84	-22.30
6	3.46094	0.41	32.21	18.26	32.62	18.67	56.00	46.00	-23.38	-27.33
7	6.11275	0.46	36.35	23.80	36.81	24.26	60.00	50.00	-23.19	-25.74

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

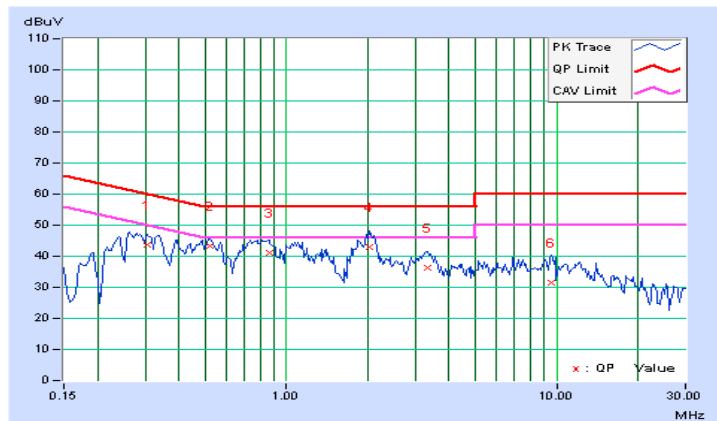


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A3

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.30625	0.21	43.33	30.29	43.54	30.50	60.07	50.07	-16.53	-19.57
2	0.52109	0.23	43.11	33.50	43.34	33.73	56.00	46.00	-12.66	-12.27
3	0.86094	0.27	40.68	29.63	40.95	29.90	56.00	46.00	-15.05	-16.10
4	2.02344	0.32	42.76	31.79	43.08	32.11	56.00	46.00	-12.92	-13.89
5	3.31641	0.37	35.86	24.64	36.23	25.01	56.00	46.00	-19.77	-20.99
6	9.51563	0.48	30.83	19.72	31.31	20.20	60.00	50.00	-28.69	-29.80

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

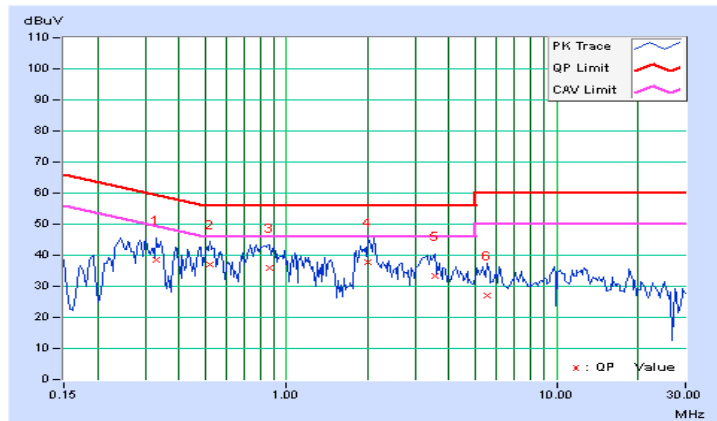


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A3

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.32969	0.24	38.33	23.63	38.57	23.87	59.46	49.46	-20.89	-25.59
2	0.52109	0.27	36.64	22.18	36.91	22.45	56.00	46.00	-19.09	-23.55
3	0.86875	0.26	35.79	21.35	36.05	21.61	56.00	46.00	-19.95	-24.39
4	1.99219	0.32	37.36	24.06	37.68	24.38	56.00	46.00	-18.32	-21.62
5	3.55078	0.42	32.87	17.84	33.29	18.26	56.00	46.00	-22.71	-27.74
6	5.55078	0.48	26.65	13.83	27.13	14.31	60.00	50.00	-32.87	-35.69

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

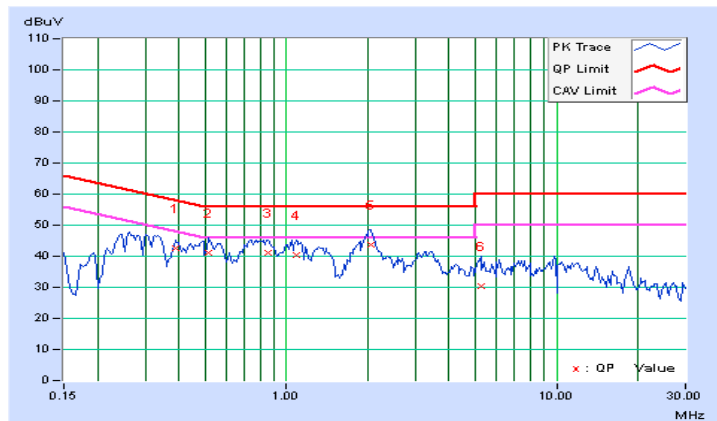


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A4

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.38828	0.22	42.34	31.75	42.56	31.97	58.10	48.10	-15.54	-16.13
2	0.51719	0.23	41.05	27.16	41.28	27.39	56.00	46.00	-14.72	-18.61
3	0.85703	0.27	40.89	28.07	41.16	28.34	56.00	46.00	-14.84	-17.66
4	1.08984	0.29	40.04	28.48	40.33	28.77	56.00	46.00	-15.67	-17.23
5	2.05859	0.32	43.20	31.54	43.52	31.86	56.00	46.00	-12.48	-14.14
6	5.28906	0.42	30.10	17.89	30.52	18.31	60.00	50.00	-29.48	-31.69

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

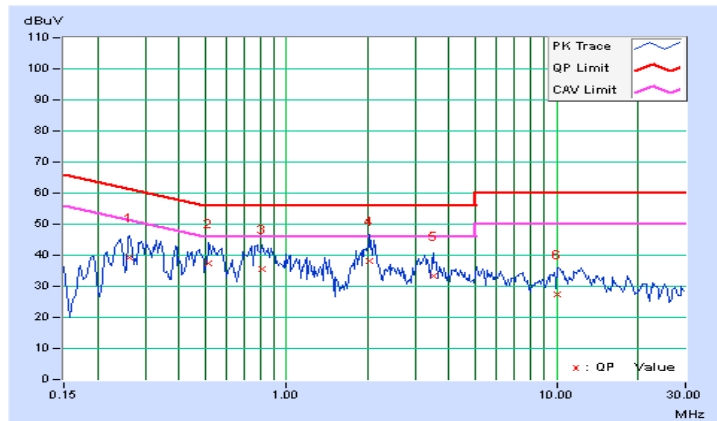


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A4

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26328	0.22	39.08	24.39	39.30	24.61	61.33	51.33	-22.03	-26.72
2	0.51719	0.27	37.20	22.40	37.47	22.67	56.00	46.00	-18.53	-23.33
3	0.81016	0.26	35.26	21.68	35.52	21.94	56.00	46.00	-20.48	-24.06
4	2.03906	0.32	37.93	24.32	38.25	24.64	56.00	46.00	-17.75	-21.36
5	3.50391	0.42	32.85	18.26	33.27	18.68	56.00	46.00	-22.73	-27.32
6	10.00391	0.57	26.90	15.92	27.47	16.49	60.00	50.00	-32.53	-33.51

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

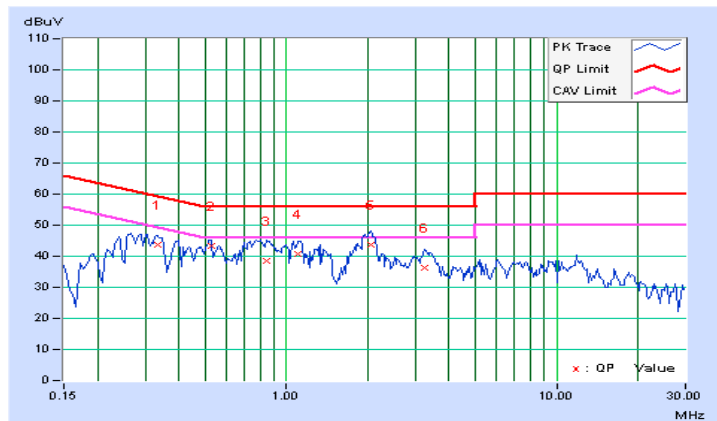


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A5

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.33359	0.21	43.60	32.61	43.81	32.82	59.36	49.36	-15.55	-16.54
2	0.52500	0.23	43.13	33.35	43.36	33.58	56.00	46.00	-12.64	-12.42
3	0.84531	0.27	38.33	23.98	38.60	24.25	56.00	46.00	-17.40	-21.75
4	1.10156	0.29	40.63	28.26	40.92	28.55	56.00	46.00	-15.08	-17.45
5	2.04297	0.32	43.43	31.69	43.75	32.01	56.00	46.00	-12.25	-13.99
6	3.25391	0.37	36.04	24.98	36.41	25.35	56.00	46.00	-19.59	-20.65

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

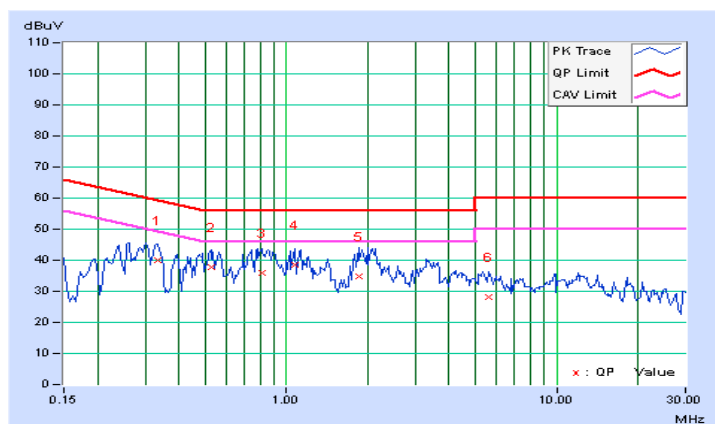


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A5

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.33359	0.24	39.76	26.83	40.00	27.07	59.36	49.36	-19.36	-22.29
2	0.52500	0.27	37.36	23.90	37.63	24.17	56.00	46.00	-18.37	-21.83
3	0.81016	0.26	35.72	21.42	35.98	21.68	56.00	46.00	-20.02	-24.32
4	1.07422	0.26	38.27	21.58	38.53	21.84	56.00	46.00	-17.47	-24.16
5	1.85547	0.31	34.56	21.58	34.87	21.89	56.00	46.00	-21.13	-24.11
6	5.58594	0.48	27.83	13.23	28.31	13.71	60.00	50.00	-31.69	-36.29

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

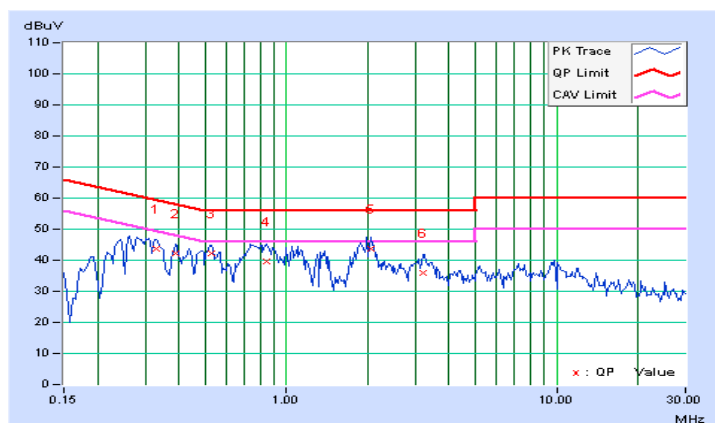


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	A6

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.32969	0.21	43.53	30.37	43.74	30.58	59.46	49.46	-15.72	-18.88
2	0.38828	0.22	42.06	31.73	42.28	31.95	58.10	48.10	-15.82	-16.15
3	0.52891	0.24	41.80	31.52	42.04	31.76	56.00	46.00	-13.96	-14.24
4	0.84922	0.27	39.25	25.24	39.52	25.51	56.00	46.00	-16.48	-20.49
5	2.05469	0.32	43.36	31.50	43.68	31.82	56.00	46.00	-12.32	-14.18
6	3.22266	0.37	35.69	23.38	36.06	23.75	56.00	46.00	-19.94	-22.25

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

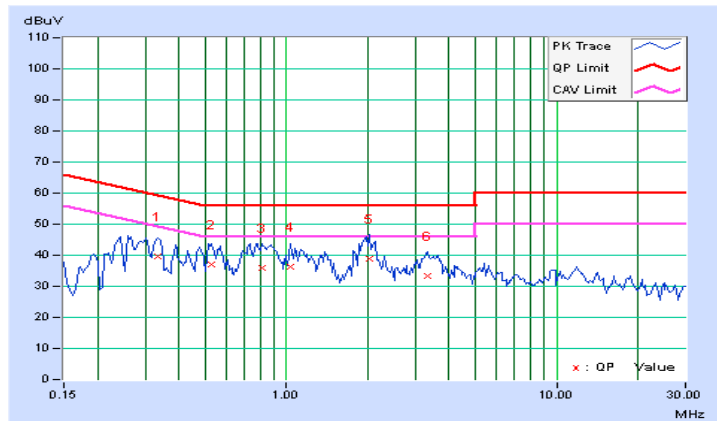


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	A6

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.33359	0.24	39.33	26.09	39.57	26.33	59.36	49.36	-19.79	-23.03
2	0.52500	0.27	36.82	24.77	37.09	25.04	56.00	46.00	-18.91	-20.96
3	0.81016	0.26	35.60	21.96	35.86	22.22	56.00	46.00	-20.14	-23.78
4	1.03516	0.26	36.16	20.88	36.42	21.14	56.00	46.00	-19.58	-24.86
5	2.02344	0.32	38.63	24.98	38.95	25.30	56.00	46.00	-17.05	-20.70
6	3.34375	0.41	32.95	18.57	33.36	18.98	56.00	46.00	-22.64	-27.02

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

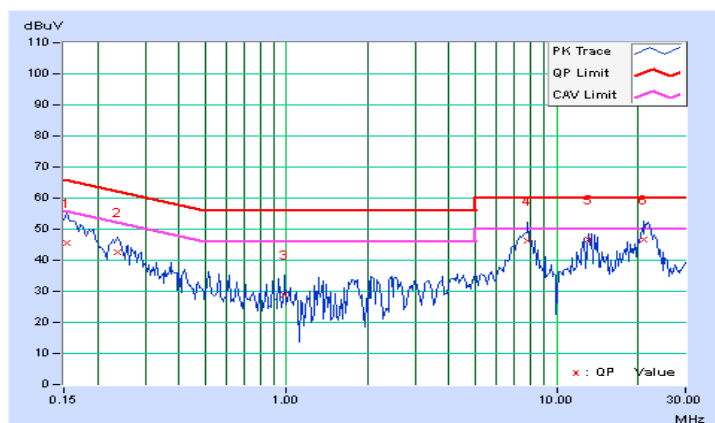


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.19	45.42	18.22	45.61	18.41	65.79	55.79	-20.18	-37.38
2	0.23594	0.20	42.34	34.82	42.54	35.02	62.24	52.24	-19.69	-17.21
3	0.98594	0.29	28.75	28.58	29.04	28.87	56.00	46.00	-26.96	-17.13
4	7.84375	0.46	45.92	45.52	46.38	45.98	60.00	50.00	-13.62	-4.02
5	13.07031	0.56	46.03	45.43	46.59	45.99	60.00	50.00	-13.41	-4.01
6	21.14844	0.72	45.87	45.17	46.59	45.89	60.00	50.00	-13.41	-4.11

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

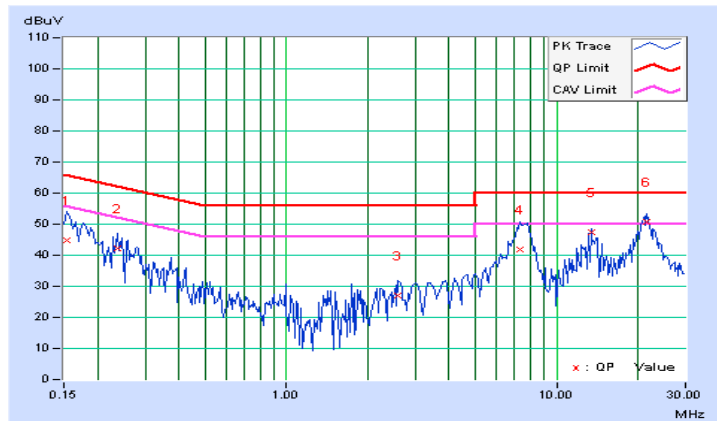


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.19	44.48	17.76	44.67	17.95	65.79	55.79	-21.11	-37.83
2	0.23594	0.20	42.10	32.93	42.30	33.13	62.24	52.24	-19.93	-19.10
3	2.59766	0.36	26.58	22.07	26.94	22.43	56.00	46.00	-29.06	-23.57
4	7.36720	0.52	41.22	35.76	41.74	36.28	60.00	50.00	-18.26	-13.72
5	13.55078	0.66	46.75	44.09	47.41	44.75	60.00	50.00	-12.59	-5.25
6	21.63281	0.81	49.83	45.44	50.64	46.25	60.00	50.00	-9.36	-3.75

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

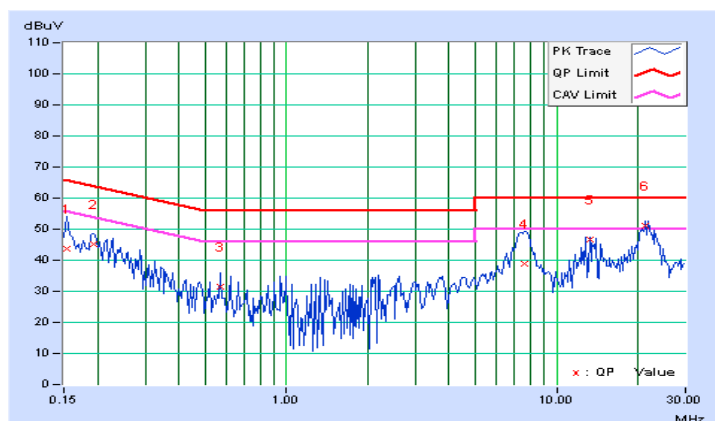


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.19	43.45	17.72	43.64	17.91	65.79	55.79	-22.15	-37.88
2	0.19297	0.20	44.88	36.09	45.08	36.29	63.91	53.91	-18.83	-17.62
3	0.56797	0.24	31.11	31.01	31.35	31.25	56.00	46.00	-24.65	-14.75
4	7.59375	0.45	38.39	32.38	38.84	32.83	60.00	50.00	-21.16	-17.17
5	13.31641	0.57	46.26	45.70	46.83	46.27	60.00	50.00	-13.17	-3.73
6	21.40625	0.72	50.57	47.01	51.29	47.73	60.00	50.00	-8.71	-2.27

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

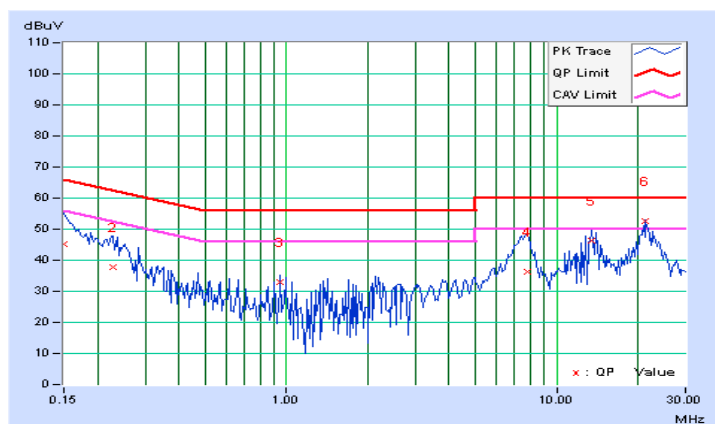


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11b CH 6	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15005	0.19	45.09	27.44	45.28	27.63	66.00	56.00	-20.71	-28.36
2	0.22812	0.20	37.66	14.78	37.86	14.98	62.52	52.52	-24.66	-37.54
3	0.94688	0.26	32.59	32.35	32.85	32.61	56.00	46.00	-23.15	-13.39
4	7.76953	0.53	35.87	28.05	36.40	28.58	60.00	50.00	-23.60	-21.42
5	13.55469	0.66	45.74	45.32	46.40	45.98	60.00	50.00	-13.60	-4.02
6	21.40234	0.81	51.73	46.02	52.54	46.83	60.00	50.00	-7.46	-3.17

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

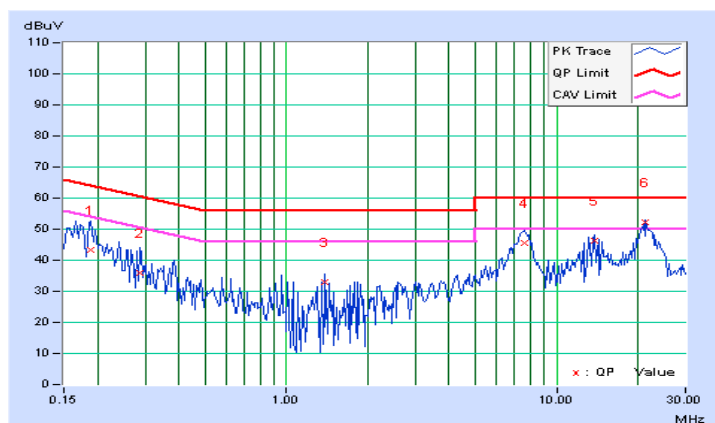


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B3

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	0.20	43.18	34.35	43.38	34.55	64.08	54.08	-20.70	-19.53
2	0.28672	0.21	35.67	31.68	35.88	31.89	60.62	50.62	-24.74	-18.73
3	1.39453	0.30	32.71	32.07	33.01	32.37	56.00	46.00	-22.99	-13.63
4	7.58984	0.45	45.26	45.08	45.71	45.53	60.00	50.00	-14.29	-4.47
5	13.80078	0.58	45.69	45.06	46.27	45.64	60.00	50.00	-13.73	-4.36
6	21.41797	0.72	51.39	47.11	52.11	47.83	60.00	50.00	-7.89	-2.17

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

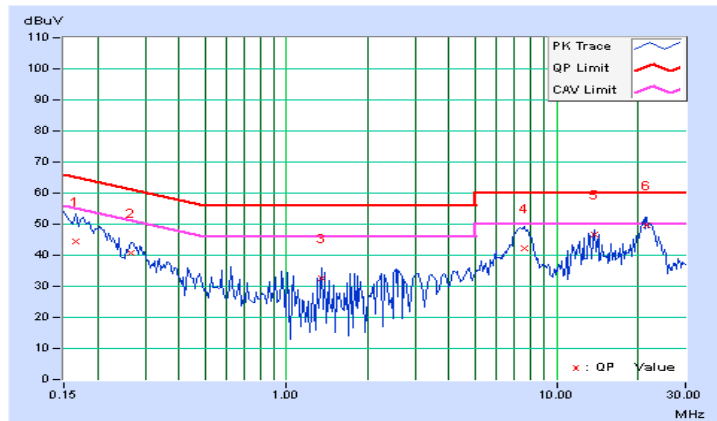


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B3

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.19	44.40	35.75	44.59	35.94	65.18	55.18	-20.58	-19.23
2	0.26719	0.22	40.59	18.71	40.81	18.93	61.20	51.20	-20.40	-32.28
3	1.34375	0.28	32.25	32.03	32.53	32.31	56.00	46.00	-23.47	-13.69
4	7.58203	0.52	41.86	35.51	42.38	36.03	60.00	50.00	-17.62	-13.97
5	13.80078	0.67	46.01	45.59	46.68	46.26	60.00	50.00	-13.32	-3.74
6	21.65234	0.81	48.89	47.00	49.70	47.81	60.00	50.00	-10.30	-2.19

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

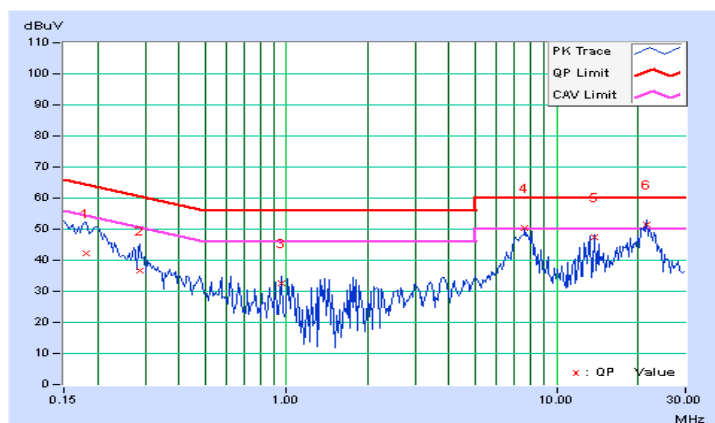


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B4

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	0.19	41.94	16.64	42.13	16.83	64.43	54.43	-22.29	-37.59
2	0.28672	0.21	36.44	32.16	36.65	32.37	60.62	50.62	-23.97	-18.25
3	0.95469	0.28	32.33	31.85	32.61	32.13	56.00	46.00	-23.39	-13.87
4	7.60938	0.45	49.81	47.01	50.26	47.46	60.00	50.00	-9.74	-2.54
5	13.80078	0.58	46.84	45.42	47.42	46.00	60.00	50.00	-12.58	-4.00
6	21.64844	0.72	50.66	47.08	51.38	47.80	60.00	50.00	-8.62	-2.20

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

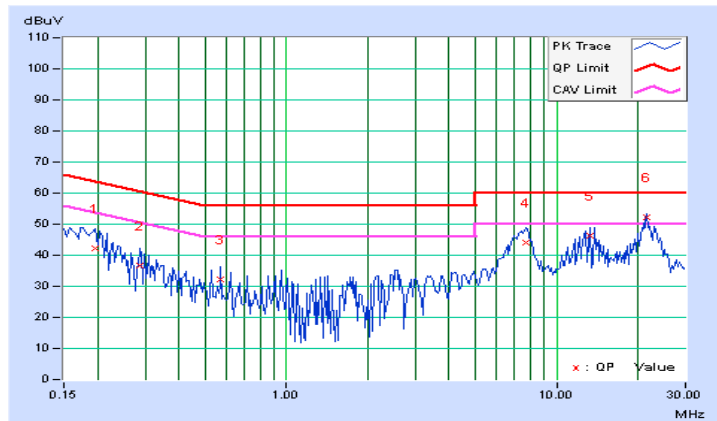


CHANNEL	802.11b CH 6 + 802.11a CH 157 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B4

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.19	41.94	28.73	42.13	28.92	63.74	53.74	-21.61	-24.82
2	0.28672	0.22	36.52	32.16	36.74	32.38	60.62	50.62	-23.87	-18.23
3	0.57188	0.27	31.91	31.87	32.18	32.14	56.00	46.00	-23.82	-13.86
4	7.73566	0.52	43.54	34.73	44.06	35.25	60.00	50.00	-15.94	-14.75
5	13.32031	0.65	45.51	45.24	46.16	45.89	60.00	50.00	-13.84	-4.11
6	21.64844	0.81	51.52	47.03	52.33	47.84	60.00	50.00	-7.67	-2.16

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

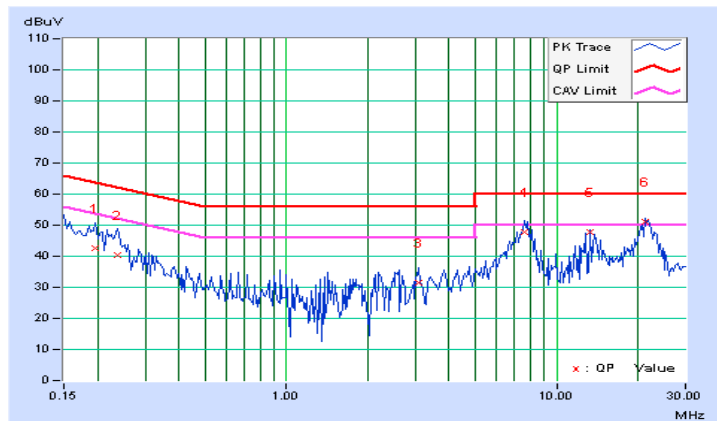


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B5

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.20	42.26	26.70	42.46	26.90	63.74	53.74	-21.28	-26.84
2	0.23594	0.20	40.21	33.33	40.41	33.53	62.24	52.24	-21.82	-18.70
3	3.09375	0.36	31.15	28.18	31.51	28.54	56.00	46.00	-24.49	-17.46
4	7.61328	0.45	47.46	44.88	47.91	45.33	60.00	50.00	-12.09	-4.67
5	13.32031	0.57	47.18	45.86	47.75	46.43	60.00	50.00	-12.25	-3.57
6	21.16797	0.72	50.23	47.02	50.95	47.74	60.00	50.00	-9.05	-2.26

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

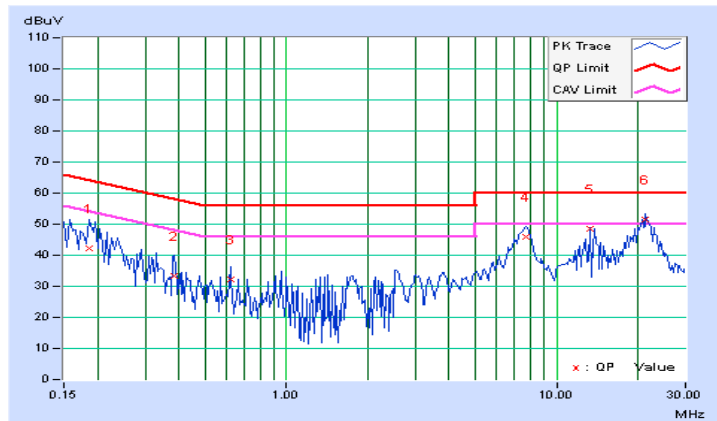


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 36	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B5

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.19	41.86	29.44	42.05	29.63	64.25	54.25	-22.20	-24.62
2	0.38438	0.26	33.10	28.92	33.36	29.18	58.18	48.18	-24.82	-19.00
3	0.61875	0.27	31.96	30.34	32.23	30.61	56.00	46.00	-23.77	-15.39
4	7.72266	0.52	45.31	37.83	45.83	38.35	60.00	50.00	-14.17	-11.65
5	13.32031	0.65	47.75	45.66	48.40	46.31	60.00	50.00	-11.60	-3.69
6	21.17188	0.81	50.84	47.01	51.65	47.82	60.00	50.00	-8.35	-2.18

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

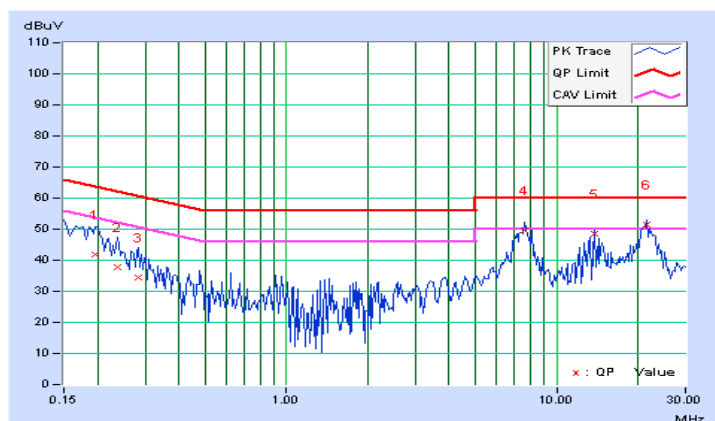


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 1	TEST MODE	B6

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.20	41.58	29.86	41.78	30.06	63.74	53.74	-21.96	-23.68
2	0.23594	0.20	37.59	30.85	37.79	31.05	62.24	52.24	-24.44	-21.18
3	0.28281	0.21	34.15	27.39	34.36	27.60	60.73	50.73	-26.37	-23.13
4	7.61328	0.45	49.08	46.05	49.53	46.50	60.00	50.00	-10.47	-3.50
5	13.80078	0.58	48.03	47.03	48.61	47.61	60.00	50.00	-11.39	-2.39
6	21.65234	0.72	50.91	47.02	51.63	47.74	60.00	50.00	-8.37	-2.26

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

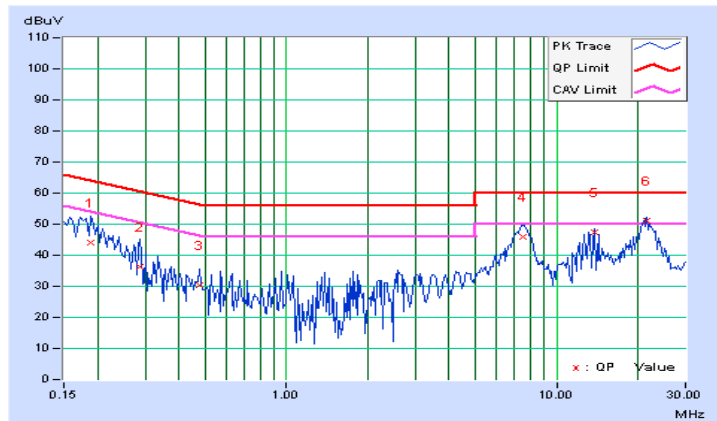


CHANNEL	802.11b CH 6 + 802.11a CH 36 + 802.11a CH 157	6dB BANDWIDTH	9kHz
PHASE	Line 2	TEST MODE	B6

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	0.19	43.76	35.09	43.95	35.28	64.08	54.08	-20.13	-18.80
2	0.28672	0.22	36.07	32.04	36.29	32.26	60.62	50.62	-24.32	-18.35
3	0.47813	0.27	30.03	28.56	30.30	28.83	56.37	46.37	-26.07	-17.54
4	7.52734	0.52	45.52	42.31	46.04	42.83	60.00	50.00	-13.96	-7.17
5	13.80078	0.67	46.56	47.24	47.23	47.91	60.00	50.00	-12.77	-2.09
6	21.65234	0.81	50.18	46.88	50.99	47.69	60.00	50.00	-9.01	-2.31

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.





A D T

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



A D T

6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.



A D T

7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---