



# PARTIAL FCC TEST REPORT (15.407)

**REPORT NO.:** RF140707C54-1

**MODEL NO.:** UTX-3115XXXXXXXXXXXXXXXXXX,  
UTX3115XXXXXXXXXXXXXXXXXX  
("X" can be 0-9 or A-Z or blank or any  
alphanumeric character)

**FCC ID:** M82-UTX-3115

**RECEIVED:** Jun. 18, 2014

**TESTED:** Jun. 29 ~ Jul. 25, 2014

**ISSUED:** Jul. 29, 2014

**APPLICANT:** ADVANTECH CO., LTD

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District, Taipei, Taiwan 114

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

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
New Taipei City, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140707C54-1	Original release	Jul. 29, 2014



# 1. CERTIFICATION

**PRODUCT:** COMPUTER

**MODEL:** UTX-3115XXXXXXXXXXXXXXXXXX,  
UTX3115XXXXXXXXXXXXXXXXXX ("X" can be 0-9 or A-Z or blank or  
any alphanumeric character)

**BRAND:** Advantech

**APPLICANT:** ADVANTECH CO., LTD

**TESTED:** Jun. 29 ~ Jul. 25, 2014

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** **FCC Part 15, Subpart E (Section 15.407)**  
ANSI C63.10-2009

The above equipment (model: UTX-3115) 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 :** Celine Chou , **DATE :** Jul. 29, 2014  
Celine Chou / Specialist

**APPROVED BY :** Ken Liu , **DATE :** Jul. 29, 2014  
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 E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -15.97dB at 26.99997MHz.
15.407(b/1/2/3) (b)(6)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.4dB at 395.30MHz.
15.407(a/1/2)	Max Average Transmit Power	NA	Refer to NOTE below.
15.407(a)(6)	Peak Power Excursion	NA	Refer to NOTE below.
15.407(a/1/2)	Peak Power Spectral Density	NA	Refer to NOTE below.
15.407(g)	Frequency Stability	NA	Refer to NOTE below.
15.203	Antenna Requirement	PASS	Antenna connector is SMA (M) not a standard connector.

**NOTE:** Test items for conducted and radiated emission test were performed for this report. Other testing data please refer to module (Brand: Intel, Model: 7260HMW, FCC ID: PD97260H) Report.

### 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

<b>EUT</b>	COMPUTER
<b>MODEL NO.</b>	UTX-3115XXXXXXXXXXXXXXXXXX, UTX3115XXXXXXXXXXXXXXXXXX (“X” can be 0-9 or A-Z or blank or any alphanumeric character)
<b>POWER SUPPLY</b>	12Vdc from Adapter
<b>MODULATION TYPE</b>	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
<b>MODULATION TECHNOLOGY</b>	OFDM
<b>TRANSFER RATE</b>	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps 802.11ac: up to 866.7Mbps
<b>OPERATING FREQUENCY</b>	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5720MHz
<b>NUMBER OF CHANNEL</b>	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 10 for 802.11a, 802.11n (20MHz) 5 for 802.11n (40MHz) 3 for 802.11ac (80MHz)
<b>ANTENNA TYPE</b>	Dipole antenna with 1.4dBi gain
<b>ANTENNA CONNECTOR</b>	SMA (M)
<b>I/O PORTS</b>	Refer to users’ manual
<b>DATA CABLE</b>	N/A
<b>ACCESSORY DEVICES</b>	Refer to note

**NOTE:**

1. All models are listed as below.

Brand	Model	Difference
ADVANTECH	UTX-3115XXXXXXXXXXXXXXXXXX	“X” can be 0-9 or A-Z or blank or any alphanumeric character
	UTX3115XXXXXXXXXXXXXXXXXX	

\* Model UTX-3115 was chosen for final test.



2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX / 2TX
802.11n (40MHz)	1TX / 2TX
802.11ac (20MHz)	1TX / 2TX
802.11ac (40MHz)	1TX / 2TX
802.11ac (80MHz)	1TX / 2TX

\* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3. The EUT uses the following components.

Part	Specification	Vendor	Model
Main board	-	Advantech	AIMB-115
Memory	DDR3L 4GB	Apacer	PC3-1066 CL9
SSD	32GB	Plextor	PX-32G5Le-72
CPU	1.4GHz	Intel	ATOM E3826
3G Module	-	Telit	HE910
Wi-Fi Module	-	Intel	7260HMW
Adapter	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 12Vdc, 3A DC: 1.5m cable with one core attached on adapter AC: 1.8m shielded cable without core	FSP	FSP036-RAB

4. 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 5180 ~ 5240MHz

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

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
42	5210MHz

#### FOR 5260 ~ 5320MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
58	5290MHz



**FOR 5500 ~ 5720MHz**

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	120	5600 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz
116	5580 MHz	144	5720 MHz

5 channels are provided for 802.11n (40MHz), 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	134	5670 MHz
110	5550 MHz	142	5710 MHz
118	5590 MHz		

3 channels are provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	138	5690MHz
122	5610MHz		

### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE≥1G	RE<1G	PLC	
-	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz      **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission

**NOTE:**

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-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	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
-	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	15.0
-	802.11ac (80MHz)		42	42	OFDM	BPSK	65.0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0
-	802.11ac (80MHz)		58	58	OFDM	BPSK	65.0
-	802.11a	5500-5720	100 to 140	100, 120, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 120, 140, 144	OFDM	BPSK	7.2
-	802.11n (40MHz)		102 to 134	102, 118, 134	OFDM	BPSK	15.0
-	802.11ac (80MHz)		106 to 122	106, 122, 138	OFDM	BPSK	65.0

**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	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5180-5720	36 to 140	36	OFDM	BPSK	6.0

**POWER LINE 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	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5180-5720	36 to 144	36	OFDM	BPSK	6.0

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 60%RH	120Vac, 60Hz	Ted Chang
RE $<$ 1G	25deg. C, 60%RH	120Vac, 60Hz	Ted Chang
PLC	25deg. C, 70%RH	120Vac, 60Hz	Jones Chang

### 3.3 DESCRIPTION OF SUPPORT UNITS

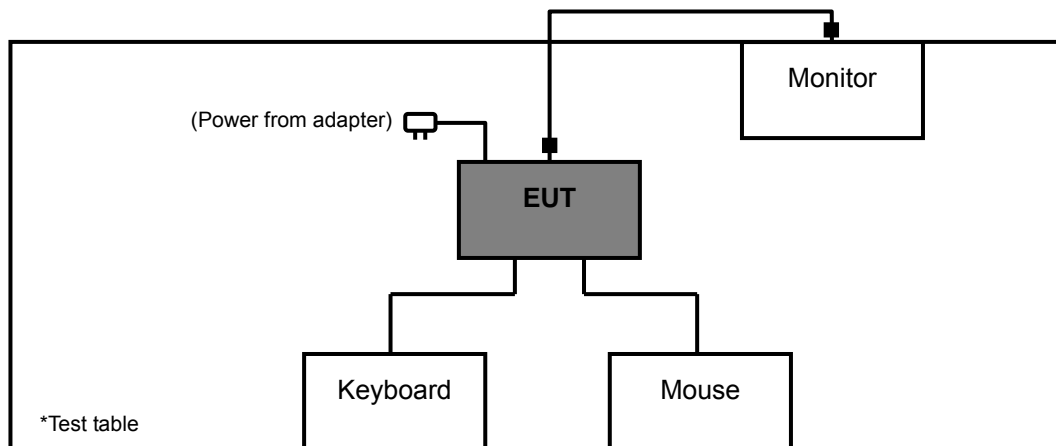
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	LCD Monitor	Samsung	173v	N/A	FCC DoC Approved
2	USB Mouse	DELL	MS-111T	CN-0KW2YH-71616-28H-0L30	N/A
3	USB Keyboard	WINTEK	WM700	20110700000	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8m D-sub Cable with two cores
2	1.8m USB Cable
3	1.8m USB Cable

**NOTE:** All power cords of the above support units are non-shielded (1.8m).

#### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



### 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 E (15.407)**

**789033 D01 General UNII Test Procedures Old Rules v01r04**

**662911 D01 Multiple Transmitter Output v02r01**

ANSI C63.10-2009

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

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

## 4. TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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	68.2

**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	ESCS30	100289	Nov. 29, 2013	Nov. 28, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Feb. 11, 2014	Feb. 10, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Feb. 25, 2014	Feb. 24, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-209	Sep. 12, 2013	Sep. 11, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 17, 2014	Feb. 16, 2015
Preamplifier Agilent	8449B	3008A01911	Aug. 22, 2013	Aug. 21, 2014
Preamplifier Agilent	8447D	2944A10638	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	248780/4 309222/4 274092/4	Aug. 26, 2013	Aug. 25, 2014
RF signal cable Worken	5D-FB	Cable-HYCH9-01	Aug. 11, 2013	Aug. 10, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn Table Controller EMCO	2090	NA	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2013	Oct. 17, 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 test was performed in HwaYa Chamber 9.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The FCC Site Registration No. is 215374.
  5. The IC Site Registration No. is IC 7450F-9.

#### 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 meter 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin 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 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  $\geq 1/T$  (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.

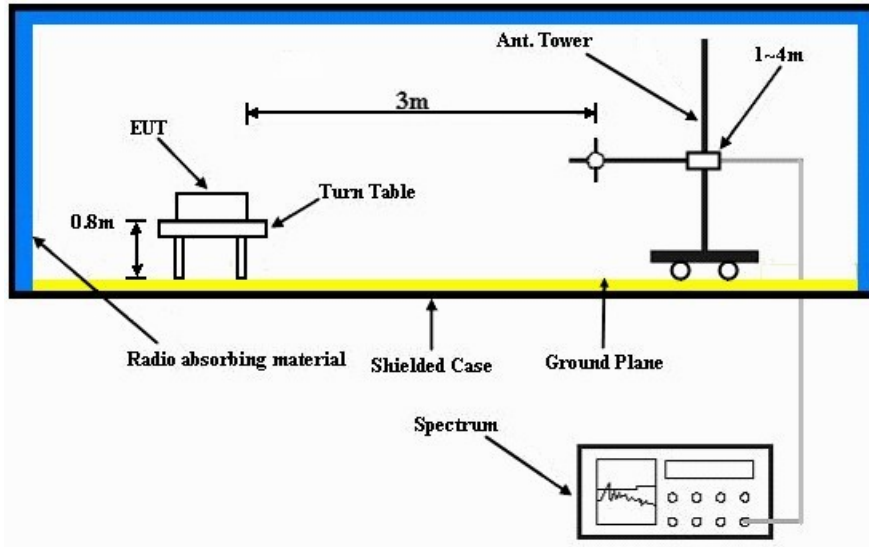
#### 4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

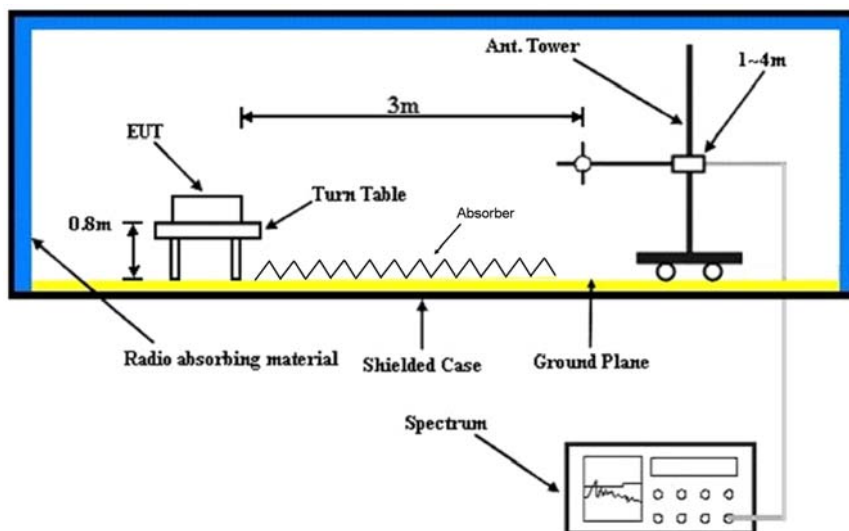


#### 4.1.6 TEST SETUP

##### 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 CONDITION

- a. Placed the EUT on the testing table.
- b. The EUT ran a test program (provided by manufacturer) to enable itself under transmission condition continuously at specific channel frequency.

#### 4.1.8 TEST RESULTS

##### ABOVE 1GHz DATA :

Chain 0

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.1 PK	74.0	-16.9	1.00 H	75	56.20	0.90
2	4500.00	45.2 AV	54.0	-8.8	1.00 H	75	44.30	0.90
3	*5180.00	88.2 PK			1.26 H	317	48.80	39.40
4	*5180.00	77.4 AV			1.26 H	317	38.00	39.40
5	#10360.00	60.4 PK	68.2	-7.8	1.00 H	346	46.50	13.90
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	4500.00	56.7 PK	74.0	-17.3	1.00 V	20	55.80	0.90
2	4500.00	45.0 AV	54.0	-9.0	1.00 V	20	44.10	0.90
3	*5180.00	96.9 PK			1.03 V	272	57.50	39.40
4	*5180.00	85.9 AV			1.03 V	272	46.50	39.40
5	#10360.00	60.7 PK	68.2	-7.5	1.00 V	16	46.80	13.90

##### 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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5200.00	91.5 PK			1.00 H	312	52.00	39.50
2	*5200.00	80.6 AV			1.00 H	312	41.10	39.50
3	#10400.00	60.7 PK	68.2	-7.5	1.00 H	294	46.60	14.10
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	*5200.00	99.5 PK			1.00 V	258	60.00	39.50
2	*5200.00	89.0 AV			1.00 V	258	49.50	39.50
3	#10400.00	60.9 PK	68.2	-7.3	1.00 V	3	46.80	14.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5240.00	92.2 PK			1.64 H	316	52.60	39.60
2	*5240.00	81.6 AV			1.64 H	316	42.00	39.60
3	5460.00	58.9 PK	74.0	-15.1	1.00 H	192	56.10	2.80
4	5460.00	46.0 AV	54.0	-8.0	1.00 H	192	43.20	2.80
5	#10480.00	62.3 PK	68.2	-5.9	1.00 H	326	47.00	15.30
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	*5240.00	101.3 PK			1.00 V	269	61.70	39.60
2	*5240.00	90.9 AV			1.00 V	269	51.30	39.60
3	5460.00	57.7 PK	74.0	-16.3	1.00 V	71	54.90	2.80
4	5460.00	45.0 AV	54.0	-9.0	1.00 V	71	42.20	2.80
5	#10480.00	62.2 PK	68.2	-6.0	1.00 V	336	46.90	15.30

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.4 PK	74.0	-16.6	1.00 H	26	56.50	0.90
2	4500.00	44.6 AV	54.0	-9.4	1.00 H	26	43.70	0.90
3	*5260.00	92.2 PK			1.20 H	308	52.60	39.60
4	*5260.00	81.2 AV			1.20 H	308	41.60	39.60
5	#10520.00	62.8 PK	68.2	-5.4	1.00 H	275	47.30	15.50

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	4500.00	56.9 PK	74.0	-17.1	1.00 V	16	56.00	0.90
2	4500.00	45.0 AV	54.0	-9.0	1.00 V	16	44.10	0.90
3	*5260.00	99.6 PK			1.00 V	267	60.00	39.60
4	*5260.00	89.5 AV			1.00 V	267	49.90	39.60
5	#10520.00	62.3 PK	68.2	-5.9	1.00 V	179	46.80	15.50

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5300.00	91.6 PK			1.00 H	276	52.00	39.60
2	*5300.00	80.9 AV			1.00 H	276	41.30	39.60
3	10600.00	60.8 PK	74.0	-13.2	1.00 H	239	44.90	15.90
4	10600.00	49.1 AV	54.0	-4.9	1.00 H	239	33.20	15.90
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	*5300.00	102.0 PK			1.00 V	270	62.40	39.60
2	*5300.00	91.1 AV			1.00 V	270	51.50	39.60
3	10600.00	60.5 PK	74.0	-13.5	1.00 V	72	44.60	15.90
4	10600.00	48.6 AV	54.0	-5.4	1.00 V	72	32.70	15.90

**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	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5320.00	90.5 PK			1.13 H	313	50.80	39.70
2	*5320.00	80.3 AV			1.13 H	313	40.60	39.70
3	5460.00	58.0 PK	74.0	-16.0	1.00 H	29	55.20	2.80
4	5460.00	45.8 AV	54.0	-8.2	1.00 H	29	43.00	2.80
5	10640.00	61.0 PK	74.0	-13.0	1.00 H	136	45.10	15.90
6	10640.00	49.5 AV	54.0	-4.5	1.00 H	136	33.60	15.90
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	*5320.00	99.3 PK			1.00 V	266	59.60	39.70
2	*5320.00	89.6 AV			1.00 V	266	49.90	39.70
3	5460.00	58.5 PK	74.0	-15.5	1.00 V	29	55.70	2.80
4	5460.00	45.2 AV	54.0	-8.8	1.00 V	29	42.40	2.80
5	10640.00	62.9 PK	74.0	-11.1	1.00 V	241	47.00	15.90
6	10640.00	50.2 AV	54.0	-3.8	1.00 V	241	34.30	15.90

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	58.1 PK	74.0	-15.9	1.00 H	39	55.30	2.80
2	5460.00	45.2 AV	54.0	-8.8	1.00 H	39	42.40	2.80
3	#5470.00	58.9 PK	68.2	-9.3	1.00 H	18	56.00	2.90
4	*5500.00	91.9 PK			1.13 H	299	52.00	39.90
5	*5500.00	81.1 AV			1.13 H	299	41.20	39.90
6	11000.00	61.0 PK	74.0	-13.0	1.00 H	130	44.00	17.00
7	11000.00	47.7 AV	54.0	-6.3	1.00 H	130	30.70	17.00
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	5460.00	58.3 PK	74.0	-15.7	1.00 V	144	55.50	2.80
2	5460.00	45.3 AV	54.0	-8.7	1.00 V	144	42.50	2.80
3	#5470.00	60.7 PK	68.2	-7.5	1.23 V	270	57.80	2.90
4	*5500.00	99.7 PK			1.00 V	13	59.80	39.90
5	*5500.00	88.7 AV			1.00 V	13	48.80	39.90
6	11000.00	60.5 PK	74.0	-13.5	1.00 V	59	43.50	17.00
7	11000.00	46.6 AV	54.0	-7.4	1.00 V	59	29.60	17.00

**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 the restricted band.





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5600.00	96.9 PK			1.03 H	316	56.90	40.00
2	*5600.00	86.1 AV			1.03 H	316	46.10	40.00
3	11200.00	59.1 PK	74.0	-14.9	1.00 H	39	42.30	16.80
4	11200.00	48.3 AV	54.0	-5.7	1.00 H	39	31.50	16.80
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	*5600.00	104.0 PK			1.00 V	327	64.00	40.00
2	*5600.00	93.9 AV			1.00 V	327	53.90	40.00
3	11200.00	58.2 PK	74.0	-15.8	1.07 V	0	41.40	16.80
4	11200.00	47.6 AV	54.0	-6.4	1.07 V	0	30.80	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5700.00	93.2 PK			1.24 H	321	53.00	40.20
2	*5700.00	82.5 AV			1.24 H	321	42.30	40.20
3	#5725.00	57.1 PK	68.2	-11.1	1.00 H	294	53.80	3.30
4	11400.00	60.5 PK	74.0	-13.5	1.00 H	352	44.70	15.80
5	11400.00	48.2 AV	54.0	-5.8	1.00 H	352	32.40	15.80
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	*5700.00	98.3 PK			1.00 V	176	58.10	40.20
2	*5700.00	88.0 AV			1.00 V	176	47.80	40.20
3	#5725.00	58.0 PK	68.2	-10.2	1.00 V	99	54.70	3.30
4	11400.00	59.8 PK	74.0	-14.2	1.00 V	106	44.00	15.80
5	11400.00	47.6 AV	54.0	-6.4	1.00 V	106	31.80	15.80

**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 the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.1 PK	74.0	-16.9	1.00 H	75	56.20	0.90
2	4500.00	45.2 AV	54.0	-8.8	1.00 H	75	44.30	0.90
3	*5180.00	88.2 PK			1.26 H	317	48.80	39.40
4	*5180.00	77.4 AV			1.26 H	317	38.00	39.40
5	#10360.00	59.4 PK	68.2	-8.8	1.00 H	346	45.50	13.90
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	4500.00	57.7 PK	74.0	-16.3	1.00 V	0	56.80	0.90
2	4500.00	45.1 AV	54.0	-8.9	1.00 V	0	44.20	0.90
3	*5180.00	96.4 PK			1.00 V	78	57.00	39.40
4	*5180.00	85.9 AV			1.00 V	78	46.50	39.40
5	#10360.00	60.2 PK	68.2	-8.0	1.00 V	26	46.30	13.90

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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5200.00	91.6 PK			1.00 H	147	52.10	39.50
2	*5200.00	81.1 AV			1.00 H	147	41.60	39.50
3	#10400.00	61.0 PK	68.2	-7.2	1.00 H	176	46.90	14.10
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	*5200.00	100.5 PK			1.00 V	254	61.00	39.50
2	*5200.00	89.7 AV			1.00 V	254	50.20	39.50
3	#10400.00	60.7 PK	68.2	-7.5	1.09 V	191	46.60	14.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5240.00	92.9 PK			1.00 H	309	53.30	39.60
2	*5240.00	82.7 AV			1.00 H	309	43.10	39.60
3	5460.00	58.5 PK	74.0	-15.5	1.00 H	233	55.70	2.80
4	5460.00	45.2 AV	54.0	-8.8	1.00 H	233	42.40	2.80
5	#10480.00	62.2 PK	68.2	-6.0	1.00 H	231	46.90	15.30
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	*5240.00	101.1 PK			1.00 V	251	61.50	39.60
2	*5240.00	90.8 AV			1.00 V	251	51.20	39.60
3	5460.00	58.1 PK	74.0	-15.9	1.00 V	263	55.30	2.80
4	5460.00	45.5 AV	54.0	-8.5	1.00 V	263	42.70	2.80
5	#10480.00	62.5 PK	68.2	-5.7	1.00 V	360	47.20	15.30

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.2 PK	74.0	-16.8	1.00 H	251	56.30	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 H	251	44.00	0.90
3	*5260.00	90.1 PK			1.00 H	142	50.50	39.60
4	*5260.00	80.1 AV			1.00 H	142	40.50	39.60
5	#10520.00	63.4 PK	68.2	-4.8	1.00 H	31	47.90	15.50
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	4500.00	56.7 PK	74.0	-17.3	1.00 V	132	55.80	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 V	132	44.00	0.90
3	*5260.00	100.8 PK			1.31 V	280	61.20	39.60
4	*5260.00	89.8 AV			1.31 V	280	50.20	39.60
5	#10520.00	63.3 PK	68.2	-4.9	1.00 V	0	47.80	15.50

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5300.00	91.8 PK			1.00 H	312	52.20	39.60
2	*5300.00	81.6 AV			1.00 H	312	42.00	39.60
3	10600.00	62.6 PK	74.0	-11.4	1.00 H	276	46.70	15.90
4	10600.00	48.5 AV	54.0	-5.5	1.00 H	276	32.60	15.90
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	*5300.00	100.7 PK			1.00 V	285	61.10	39.60
2	*5300.00	90.6 AV			1.00 V	285	51.00	39.60
3	10600.00	63.1 PK	74.0	-10.9	1.00 V	91	47.20	15.90
4	10600.00	49.6 AV	54.0	-4.4	1.00 V	91	33.70	15.90

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5320.00	92.7 PK			1.21 H	317	53.00	39.70
2	*5320.00	81.6 AV			1.21 H	317	41.90	39.70
3	5350.00	58.6 PK	74.0	-15.4	1.00 H	335	56.00	2.60
4	5350.00	44.5 AV	54.0	-9.5	1.00 H	335	41.90	2.60
5	10640.00	63.1 PK	74.0	-10.9	1.00 H	314	47.20	15.90
6	10640.00	48.9 AV	54.0	-5.1	1.00 H	314	33.00	15.90
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	*5320.00	99.6 PK			1.00 V	249	59.90	39.70
2	*5320.00	89.4 AV			1.00 V	249	49.70	39.70
3	5350.00	57.4 PK	74.0	-16.6	1.00 V	29	54.80	2.60
4	5350.00	44.6 AV	54.0	-9.4	1.00 V	29	42.00	2.60
5	10640.00	61.3 PK	74.0	-12.7	1.00 V	228	47.20	14.10
6	10640.00	47.1 AV	54.0	-6.9	1.00 V	228	33.00	14.10

**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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	58.0 PK	74.0	-16.0	1.00 H	312	55.20	2.80
2	5460.00	45.5 AV	54.0	-8.5	1.00 H	312	42.70	2.80
3	#5470.00	58.5 PK	68.2	-9.7	1.00 H	298	55.60	2.90
4	*5500.00	90.4 PK			1.17 H	320	50.50	39.90
5	*5500.00	79.3 AV			1.17 H	320	39.40	39.90
6	11000.00	60.1 PK	74.0	-13.9	1.00 H	129	43.10	17.00
7	11000.00	47.2 AV	54.0	-6.8	1.00 H	129	30.20	17.00
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	5460.00	58.6 PK	74.0	-15.4	1.00 V	122	55.80	2.80
2	5460.00	45.4 AV	54.0	-8.6	1.00 V	122	42.60	2.80
3	#5470.00	61.3 PK	68.2	-6.9	1.00 V	226	58.40	2.90
4	*5500.00	98.2 PK			1.00 V	350	58.30	39.90
5	*5500.00	87.7 AV			1.00 V	350	47.80	39.90
6	11000.00	60.1 PK	74.0	-13.9	1.00 V	146	43.10	17.00
7	11000.00	46.3 AV	54.0	-7.7	1.00 V	146	29.30	17.00

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5600.00	97.7 PK			1.50 H	318	57.70	40.00
2	*5600.00	87.1 AV			1.50 H	318	47.10	40.00
3	11200.00	62.4 PK	74.0	-11.6	1.00 H	232	45.60	16.80
4	11200.00	47.3 AV	54.0	-6.7	1.00 H	232	30.50	16.80
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	*5600.00	105.1 PK			1.00 V	335	65.10	40.00
2	*5600.00	94.5 AV			1.00 V	335	54.50	40.00
3	11200.00	60.0 PK	74.0	-14.0	1.00 V	266	43.20	16.80
4	11200.00	46.1 AV	54.0	-7.9	1.00 V	266	29.30	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5700.00	95.8 PK			1.73 H	315	55.60	40.20
2	*5700.00	84.7 AV			1.73 H	315	44.50	40.20
3	#5725.00	57.3 PK	68.2	-10.9	1.00 H	116	54.00	3.30
4	11400.00	61.1 PK	74.0	-12.9	1.00 H	256	45.30	15.80
5	11400.00	47.8 AV	54.0	-6.2	1.00 H	256	32.00	15.80
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	*5700.00	104.4 PK			1.00 V	252	64.20	40.20
2	*5700.00	93.8 AV			1.00 V	252	53.60	40.20
3	#5725.00	60.0 PK	68.2	-8.2	1.00 V	250	56.70	3.30
4	11400.00	61.5 PK	74.0	-12.5	1.00 V	252	45.70	15.80
5	11400.00	48.6 AV	54.0	-5.4	1.00 V	252	32.80	15.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.7 PK	74.0	-15.3	1.00 H	10	55.80	2.90
2	#5470.00	45.3 AV	54.0	-8.7	1.00 H	10	42.40	2.90
3	*5720.00	96.5 PK			1.84 H	316	56.20	40.30
4	*5720.00	85.8 AV			1.84 H	316	45.50	40.30
5	#5850.00	56.4 PK	74.0	-17.6	1.00 H	121	53.00	3.40
6	#5850.00	43.3 AV	54.0	-10.7	1.00 H	121	39.90	3.40
7	11440.00	61.6 PK	74.0	-12.4	1.00 H	10	45.80	15.80
8	11440.00	48.3 AV	54.0	-5.7	1.00 H	10	32.50	15.80

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	#5470.00	59.1 PK	74.0	-14.9	1.00 V	29	56.20	2.90
2	#5470.00	45.2 AV	54.0	-8.8	1.00 V	29	42.30	2.90
3	*5720.00	104.6 PK			1.46 V	253	64.30	40.30
4	*5720.00	94.1 AV			1.46 V	253	53.80	40.30
5	#5850.00	57.9 PK	74.0	-16.1	1.00 V	102	54.50	3.40
6	#5850.00	43.4 AV	54.0	-10.6	1.00 V	102	40.00	3.40
7	11440.00	62.6 PK	74.0	-11.4	1.00 V	10	46.80	15.80
8	11440.00	48.0 AV	54.0	-6.0	1.00 V	10	32.20	15.80

**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 the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	58.1 PK	74.0	-15.9	1.00 H	113	57.20	0.90
2	4500.00	45.2 AV	54.0	-8.8	1.00 H	113	44.30	0.90
3	*5190.00	83.3 PK			1.00 H	315	43.80	39.50
4	*5190.00	72.2 AV			1.00 H	315	32.70	39.50
5	#10380.00	61.4 PK	68.2	-6.8	1.00 H	21	47.30	14.10

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	4500.00	57.2 PK	74.0	-16.8	1.00 V	20	56.30	0.90
2	4500.00	44.8 AV	54.0	-9.2	1.00 V	20	43.90	0.90
3	*5190.00	92.2 PK			1.00 V	254	52.70	39.50
4	*5190.00	81.4 AV			1.00 V	254	41.90	39.50
5	#10380.00	60.7 PK	68.2	-7.5	1.00 V	113	46.60	14.10

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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5230.00	91.3 PK			1.00 H	320	51.70	39.60
2	*5230.00	81.1 AV			1.00 H	320	41.50	39.60
3	5460.00	59.2 PK	74.0	-14.8	1.00 H	305	56.40	2.80
4	5460.00	47.0 AV	54.0	-7.0	1.00 H	305	44.20	2.80
5	#10460.00	61.8 PK	68.2	-6.4	1.00 H	20	47.00	14.80
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	*5230.00	99.8 PK			1.00 V	253	60.20	39.60
2	*5230.00	89.7 AV			1.00 V	253	50.10	39.60
3	5460.00	58.3 PK	74.0	-15.7	1.00 V	303	55.50	2.80
4	5460.00	46.7 AV	54.0	-7.3	1.00 V	303	43.90	2.80
5	#10460.00	60.8 PK	68.2	-7.4	1.00 V	187	46.00	14.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	56.8 PK	74.0	-17.2	1.00 H	199	55.90	0.90
2	4500.00	44.1 AV	54.0	-9.9	1.00 H	199	43.20	0.90
3	*5270.00	85.2 PK			1.00 H	146	45.60	39.60
4	*5270.00	74.5 AV			1.00 H	146	34.90	39.60
5	#10540.00	62.1 PK	68.2	-6.2	1.00 H	105	46.50	15.60
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	4500.00	57.0 PK	74.0	-17.0	1.00 V	251	56.10	0.90
2	4500.00	44.4 AV	54.0	-9.6	1.00 V	251	43.50	0.90
3	*5270.00	95.6 PK			1.00 V	269	56.00	39.60
4	*5270.00	85.4 AV			1.00 V	269	45.80	39.60
5	#10540.00	62.0 PK	68.2	-6.2	1.00 V	23	46.40	15.60

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5310.00	86.5 PK			1.00 H	144	46.90	39.60
2	*5310.00	76.2 AV			1.00 H	144	36.60	39.60
3	5350.00	58.1 PK	74.0	-15.9	1.00 H	3	55.50	2.60
4	5350.00	45.0 AV	54.0	-9.0	1.00 H	3	42.40	2.60
5	10620.00	63.1 PK	74.0	-10.9	1.18 H	102	47.20	15.90
6	10620.00	49.1 AV	54.0	-4.9	1.18 H	102	33.20	15.90
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	*5310.00	95.7 PK			1.00 V	269	56.10	39.60
2	*5310.00	85.5 AV			1.00 V	269	45.90	39.60
3	5350.00	57.6 PK	74.0	-16.4	1.00 V	32	55.00	2.60
4	5350.00	45.0 AV	54.0	-9.0	1.00 V	32	42.40	2.60
5	10620.00	62.9 PK	74.0	-11.1	1.00 V	164	47.00	15.90
6	10620.00	48.7 AV	54.0	-5.3	1.00 V	164	32.80	15.90

**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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	57.8 PK	74.0	-16.2	1.62 H	285	55.00	2.80
2	5460.00	45.1 AV	54.0	-8.9	1.62 H	285	42.30	2.80
3	#5470.00	58.7 PK	68.2	-9.5	1.26 H	250	55.80	2.90
4	*5510.00	86.4 PK			1.65 H	295	46.50	39.90
5	*5510.00	75.8 AV			1.65 H	295	35.90	39.90
6	11020.00	60.0 PK	74.0	-14.0	1.21 H	266	43.00	17.00
7	11020.00	47.3 AV	54.0	-6.7	1.21 H	266	30.30	17.00
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	5460.00	58.6 PK	74.0	-15.4	1.00 V	216	55.80	2.80
2	5460.00	45.8 AV	54.0	-8.2	1.00 V	216	43.00	2.80
3	#5470.00	60.4 PK	68.2	-7.8	1.00 V	233	57.50	2.90
4	*5510.00	96.3 PK			1.00 V	227	56.40	39.90
5	*5510.00	86.1 AV			1.00 V	227	46.20	39.90
6	11020.00	59.8 PK	74.0	-14.2	1.00 V	320	42.80	17.00
7	11020.00	46.5 AV	54.0	-7.5	1.00 V	320	29.50	17.00

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5590.00	93.1 PK			1.37 H	294	53.10	40.00
2	*5590.00	82.4 AV			1.37 H	294	42.40	40.00
3	11180.00	61.2 PK	74.0	-12.8	1.22 H	237	44.40	16.80
4	11180.00	47.2 AV	54.0	-6.8	1.22 H	237	30.40	16.80
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	*5590.00	102.2 PK			1.00 V	351	62.20	40.00
2	*5590.00	91.7 AV			1.00 V	351	51.70	40.00
3	11180.00	60.3 PK	74.0	-13.7	1.00 V	28	43.50	16.80
4	11180.00	46.3 AV	54.0	-7.7	1.00 V	28	29.50	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5670.00	95.9 PK			1.25 H	317	55.70	40.20
2	*5670.00	85.1 AV			1.25 H	317	44.90	40.20
3	#5725.00	57.6 PK	68.2	-10.6	1.00 H	298	54.30	3.30
4	11340.00	61.4 PK	74.0	-12.6	1.00 H	12	45.30	16.10
5	11340.00	48.6 AV	54.0	-5.4	1.00 H	12	32.50	16.10
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	*5670.00	103.0 PK			1.03 V	251	62.80	40.20
2	*5670.00	92.9 AV			1.03 V	251	52.70	40.20
3	#5725.00	59.8 PK	68.2	-8.4	1.00 V	248	56.50	3.30
4	11340.00	60.9 PK	74.0	-13.1	1.00 V	86	44.80	16.10
5	11340.00	48.0 AV	54.0	-6.0	1.00 V	86	31.90	16.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.5 PK	74.0	-15.5	1.00 H	101	55.60	2.90
2	#5470.00	45.7 AV	54.0	-8.3	1.00 H	101	42.80	2.90
3	*5710.00	93.9 PK			1.00 H	314	53.60	40.30
4	*5710.00	83.7 AV			1.00 H	314	43.40	40.30
5	#5850.00	56.9 PK	74.0	-17.1	1.00 H	176	53.50	3.40
6	#5850.00	43.3 AV	54.0	-10.7	1.00 H	176	39.90	3.40
7	11420.00	61.3 PK	74.0	-12.7	1.00 H	123	45.60	15.70
8	11420.00	47.5 AV	54.0	-6.5	1.00 H	123	31.80	15.70

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	#5470.00	57.8 PK	74.0	-16.2	1.00 V	38	54.90	2.90
2	#5470.00	45.8 AV	54.0	-8.2	1.00 V	38	42.90	2.90
3	*5710.00	102.2 PK			1.02 V	251	61.90	40.30
4	*5710.00	91.8 AV			1.02 V	251	51.50	40.30
5	#5850.00	57.2 PK	74.0	-16.8	1.00 V	360	53.80	3.40
6	#5850.00	43.5 AV	54.0	-10.5	1.00 V	360	40.10	3.40
7	11420.00	61.7 PK	74.0	-12.3	1.00 V	20	46.00	15.70
8	11420.00	48.4 AV	54.0	-5.6	1.00 V	20	32.70	15.70

**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 the restricted band.

802.11ac (80MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 42	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.7 PK	74.0	-16.3	1.36 H	140	56.80	0.90
2	4500.00	44.8 AV	54.0	-9.2	1.36 H	140	43.90	0.90
3	*5210.00	79.7 PK			1.38 H	144	40.20	39.50
4	*5210.00	68.2 AV			1.38 H	144	28.80	39.50
5	#10420.00	61.4 PK	68.2	-6.8	1.21 H	116	47.00	14.40

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	4500.00	56.6 PK	74.0	-17.4	1.00 V	243	55.70	0.90
2	4500.00	44.6 AV	54.0	-9.4	1.00 V	243	43.70	0.90
3	*5210.00	88.4 PK			1.00 V	251	48.90	39.50
4	*5210.00	77.8 AV			1.00 V	251	38.30	39.50
5	#10420.00	60.4 PK	68.2	-7.8	1.00 V	123	46.00	14.40

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 58	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5290.00	83.9 PK			1.00 H	319	44.30	39.60
2	*5290.00	73.5 AV			1.00 H	319	33.90	39.60
3	5460.00	58.0 PK	74.0	-16.0	1.00 H	302	55.20	2.80
4	5460.00	45.2 AV	54.0	-8.8	1.00 H	302	42.40	2.80
5	#10580.00	62.5 PK	68.2	-5.7	1.00 H	320	46.80	15.70
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	*5290.00	92.0 PK			1.00 V	272	52.40	39.60
2	*5290.00	81.7 AV			1.00 V	272	42.10	39.60
3	5460.00	59.2 PK	74.0	-14.8	1.00 V	273	56.40	2.80
4	5460.00	45.1 AV	54.0	-8.9	1.00 V	273	42.30	2.80
5	#10580.00	62.1 PK	68.2	-6.1	1.00 V	111	46.40	15.70

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 106	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	58.4 PK	74.0	-15.6	1.76 H	301	55.60	2.80
2	5460.00	45.1 AV	54.0	-8.9	1.76 H	301	42.30	2.80
3	#5470.00	58.4 PK	68.2	-9.8	1.00 H	280	55.50	2.90
4	*5530.00	82.3 PK			1.78 H	313	42.40	39.90
5	*5530.00	70.8 AV			1.78 H	313	30.90	39.90
6	11060.00	59.7 PK	74.0	-14.3	1.00 H	289	42.90	16.80
7	11060.00	47.6 AV	54.0	-6.4	1.00 H	289	30.80	16.80

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	5460.00	58.7 PK	74.0	-15.3	1.00 V	222	55.90	2.80
2	5460.00	45.9 AV	54.0	-8.1	1.00 V	222	43.10	2.80
3	#5470.00	60.7 PK	68.2	-7.5	1.00 V	234	57.80	2.90
4	*5530.00	90.4 PK			1.00 V	226	50.50	39.90
5	*5530.00	79.8 AV			1.00 V	226	39.90	39.90
6	11060.00	59.9 PK	74.0	-14.1	1.00 V	226	43.10	16.80
7	11060.00	46.2 AV	54.0	-7.8	1.00 V	226	29.40	16.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 122	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.3 PK	68.2	-9.9	1.00 H	320	55.40	2.90
2	*5610.00	90.0 PK			1.24 H	320	50.00	40.00
3	*5610.00	79.5 AV			1.24 H	320	39.50	40.00
4	11220.00	59.7 PK	74.0	-14.3	1.00 H	302	43.10	16.60
5	11220.00	46.6 AV	54.0	-7.4	1.00 H	302	30.00	16.60
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	#5470.00	59.1 PK	68.2	-9.1	1.00 V	342	56.20	2.90
2	*5610.00	98.0 PK			1.00 V	349	58.00	40.00
3	*5610.00	86.8 AV			1.00 V	349	46.80	40.00
4	11220.00	59.6 PK	74.0	-14.4	1.00 V	318	43.00	16.60
5	11220.00	46.1 AV	54.0	-7.9	1.00 V	318	29.50	16.60

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.8 PK	74.0	-15.2	1.00 H	126	55.90	2.90
2	#5470.00	46.3 AV	54.0	-7.7	1.00 H	126	43.40	2.90
3	*5690.00	93.0 PK			1.33 H	315	52.80	40.20
4	*5690.00	82.5 AV			1.33 H	315	42.30	40.20
5	#5850.00	57.3 PK	74.0	-16.7	1.00 H	222	53.90	3.40
6	#5850.00	43.5 AV	54.0	-10.5	1.00 H	222	40.10	3.40
7	11380.00	61.4 PK	74.0	-12.6	1.00 H	22	45.60	15.80
8	11380.00	47.7 AV	54.0	-6.3	1.00 H	22	31.90	15.80

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	#5470.00	58.9 PK	74.0	-15.1	1.00 V	2	56.00	2.90
2	#5470.00	46.1 AV	54.0	-7.9	1.00 V	2	43.20	2.90
3	*5690.00	99.0 PK			1.17 V	350	58.80	40.20
4	*5690.00	88.3 AV			1.17 V	350	48.10	40.20
5	#5850.00	57.6 PK	74.0	-16.4	1.00 V	101	54.20	3.40
6	#5850.00	43.6 AV	54.0	-10.4	1.00 V	101	40.20	3.40
7	11380.00	61.0 PK	74.0	-13.0	1.00 V	62	45.20	15.80
8	11380.00	48.0 AV	54.0	-6.0	1.00 V	62	32.20	15.80

**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 the restricted band.

Chain 1

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5150.00	45.6 PK	74.0	-28.4	1.46 H	87	43.20	2.40
2	5150.00	35.9 AV	54.0	-18.1	1.46 H	87	33.50	2.40
3	*5180.00	93.1 PK			1.41 H	84	53.70	39.40
4	*5180.00	83.0 AV			1.41 H	84	43.60	39.40
5	#10360.00	60.2 PK	68.2	-8.0	1.00 H	10	46.30	13.90
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	5150.00	52.6 PK	74.0	-21.4	1.00 V	14	50.20	2.40
2	5150.00	37.7 AV	54.0	-16.3	1.00 V	14	35.30	2.40
3	*5180.00	98.8 PK			1.00 V	7	59.40	39.40
4	*5180.00	88.2 AV			1.00 V	7	48.80	39.40
5	#10360.00	60.1 PK	68.2	-8.1	1.00 V	60	46.20	13.90

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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5200.00	97.6 PK			1.42 H	84	58.10	39.50
2	*5200.00	86.4 AV			1.42 H	84	46.90	39.50
3	#10400.00	60.4 PK	68.2	-7.8	1.30 H	300	46.30	14.10
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	*5200.00	102.6 PK			1.32 V	109	63.10	39.50
2	*5200.00	93.0 AV			1.32 V	109	53.50	39.50
3	#10400.00	60.6 PK	68.2	-7.6	1.00 V	180	46.50	14.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5240.00	96.8 PK			1.44 H	83	57.20	39.60
2	*5240.00	86.5 AV			1.44 H	83	46.90	39.60
3	5350.00	46.9 PK	74.0	-27.1	1.20 H	260	44.30	2.60
4	5350.00	33.4 AV	54.0	-20.6	1.20 H	260	30.80	2.60
5	#10480.00	61.5 PK	68.2	-6.7	1.00 H	360	46.20	15.30
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	*5240.00	102.3 PK			1.20 V	267	62.70	39.60
2	*5240.00	92.0 AV			1.20 V	267	52.40	39.60
3	5350.00	47.6 PK	74.0	-26.4	1.20 V	267	45.00	2.60
4	5350.00	34.9 AV	54.0	-19.1	1.20 V	267	32.30	2.60
5	#10480.00	61.8 PK	68.2	-6.4	1.10 V	180	46.50	15.30

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	58.3 PK	74.0	-15.7	1.00 H	49	57.40	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 H	49	44.00	0.90
3	*5260.00	92.2 PK			1.45 H	77	52.60	39.60
4	*5260.00	81.7 AV			1.45 H	77	42.10	39.60
5	#10520.00	63.4 PK	68.2	-4.8	1.00 H	150	47.90	15.50
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	4500.00	56.8 PK	74.0	-17.2	1.00 V	357	55.90	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 V	357	44.00	0.90
3	*5260.00	99.7 PK			1.45 V	104	60.10	39.60
4	*5260.00	89.2 AV			1.45 V	104	49.60	39.60
5	#10520.00	63.3 PK	68.2	-4.9	1.00 V	45	47.80	15.50

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5300.00	95.2 PK			1.00 H	245	55.60	39.60
2	*5300.00	84.3 AV			1.00 H	245	44.70	39.60
3	10600.00	63.0 PK	74.0	-11.0	1.01 H	101	47.10	15.90
4	10600.00	50.3 AV	54.0	-3.7	1.01 H	101	34.40	15.90
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	*5300.00	103.1 PK			1.00 V	112	63.50	39.60
2	*5300.00	92.7 AV			1.00 V	112	53.10	39.60
3	10600.00	62.6 PK	74.0	-11.4	1.00 V	19	46.70	15.90
4	10600.00	48.9 AV	54.0	-5.1	1.00 V	19	33.00	15.90

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5320.00	93.1 PK			1.00 H	76	53.40	39.70
2	*5320.00	82.3 AV			1.00 H	76	42.60	39.70
3	5460.00	58.3 PK	74.0	-15.7	1.00 H	51	55.50	2.80
4	5460.00	45.7 AV	54.0	-8.3	1.00 H	51	42.90	2.80
5	10640.00	62.6 PK	74.0	-11.4	1.00 H	102	46.70	15.90
6	10640.00	48.5 AV	54.0	-5.5	1.00 H	102	32.60	15.90
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	*5320.00	99.9 PK			1.00 V	105	60.20	39.70
2	*5320.00	89.4 AV			1.00 V	105	49.70	39.70
3	5460.00	58.6 PK	74.0	-15.4	1.00 V	0	55.80	2.80
4	5460.00	45.0 AV	54.0	-9.0	1.00 V	0	42.20	2.80
5	10640.00	63.1 PK	74.0	-10.9	1.00 V	222	47.20	15.90
6	10640.00	49.8 AV	54.0	-4.2	1.00 V	222	33.90	15.90

**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	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	57.7 PK	74.0	-16.3	1.00 H	12	54.90	2.80
2	5460.00	45.0 AV	54.0	-9.0	1.00 H	12	42.20	2.80
3	#5470.00	58.8 PK	68.2	-9.4	1.00 H	31	55.90	2.90
4	*5500.00	89.8 PK			1.06 H	96	49.90	39.90
5	*5500.00	79.2 AV			1.06 H	96	39.30	39.90
6	11000.00	59.9 PK	74.0	-14.1	1.00 H	168	42.90	17.00
7	11000.00	46.2 AV	54.0	-7.8	1.00 H	168	29.20	17.00
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	5460.00	58.9 PK	74.0	-15.1	1.00 V	2	56.10	2.80
2	5460.00	45.5 AV	54.0	-8.5	1.00 V	2	42.70	2.80
3	#5470.00	60.5 PK	68.2	-7.7	1.00 V	24	57.60	2.90
4	*5500.00	98.7 PK			1.00 V	8	58.80	39.90
5	*5500.00	88.6 AV			1.00 V	8	48.70	39.90
6	11000.00	60.5 PK	74.0	-13.5	1.00 V	238	43.50	17.00
7	11000.00	46.6 AV	54.0	-7.4	1.00 V	238	29.60	17.00

**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 the restricted band.





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5600.00	95.9 PK			1.39 H	76	55.90	40.00
2	*5600.00	85.3 AV			1.39 H	76	45.30	40.00
3	11200.00	59.7 PK	74.0	-14.3	1.00 H	21	42.90	16.80
4	11200.00	45.8 AV	54.0	-8.2	1.00 H	21	29.00	16.80
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	*5600.00	103.8 PK			1.00 V	11	63.80	40.00
2	*5600.00	93.6 AV			1.00 V	11	53.60	40.00
3	11200.00	59.2 PK	74.0	-14.8	1.00 V	353	42.40	16.80
4	11200.00	45.9 AV	54.0	-8.1	1.00 V	353	29.10	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5700.00	90.9 PK			1.00 H	78	50.70	40.20
2	*5700.00	80.0 AV			1.00 H	78	39.80	40.20
3	#5725.00	58.2 PK	68.2	-10.0	1.00 H	92	54.90	3.30
4	11400.00	61.7 PK	74.0	-12.3	1.00 H	133	45.90	15.80
5	11400.00	49.0 AV	54.0	-5.0	1.00 H	133	33.20	15.80
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	*5700.00	97.7 PK			1.00 V	25	57.50	40.20
2	*5700.00	88.3 AV			1.00 V	25	48.10	40.20
3	#5725.00	57.4 PK	68.2	-10.8	1.00 V	311	54.10	3.30
4	11400.00	60.8 PK	74.0	-13.2	1.00 V	214	45.00	15.80
5	11400.00	47.9 AV	54.0	-6.1	1.00 V	214	32.10	15.80

**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 the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5150.00	50.0 PK	74.0	-24.0	1.47 H	86	47.60	2.40
2	5150.00	36.2 AV	54.0	-17.8	1.47 H	86	33.80	2.40
3	*5180.00	94.5 PK			1.43 H	84	55.10	39.40
4	*5180.00	83.7 AV			1.43 H	84	44.30	39.40
5	#10360.00	60.5 PK	68.2	-7.7	1.00 H	300	46.60	13.90

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	5150.00	56.3 PK	74.0	-17.7	1.21 V	107	53.90	2.40
2	5150.00	40.3 AV	54.0	-13.7	1.21 V	107	37.90	2.40
3	*5180.00	101.6 PK			1.32 V	107	62.20	39.40
4	*5180.00	90.7 AV			1.32 V	107	51.30	39.40
5	#10360.00	60.3 PK	68.2	-7.9	1.20 V	10	46.40	13.90

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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5200.00	96.8 PK			1.14 H	83	57.30	39.50
2	*5200.00	86.9 AV			1.14 H	83	47.40	39.50
3	#10400.00	60.4 PK	68.2	-7.8	1.00 H	0	46.30	14.10
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	*5200.00	104.2 PK			1.21 V	106	64.70	39.50
2	*5200.00	93.3 AV			1.21 V	106	53.80	39.50
3	#10400.00	59.5 PK	68.2	-8.7	1.20 V	360	45.40	14.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5240.00	97.2 PK			1.10 H	87	57.60	39.60
2	*5240.00	87.4 AV			1.10 H	87	47.80	39.60
3	#10480.00	62.2 PK	68.2	-6.0	1.00 H	0	46.90	15.30
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	*5240.00	104.4 PK			1.30 V	114	64.80	39.60
2	*5240.00	93.6 AV			1.30 V	114	54.00	39.60
3	#10480.00	62.5 PK	68.2	-5.7	1.10 V	360	47.20	15.30

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.0 PK	74.0	-17.0	1.00 H	59	56.10	0.90
2	4500.00	45.2 AV	54.0	-8.8	1.00 H	59	44.30	0.90
3	*5260.00	92.1 PK			1.43 H	76	52.50	39.60
4	*5260.00	81.2 AV			1.43 H	76	41.60	39.60
5	#10520.00	62.3 PK	68.2	-5.9	1.00 H	103	46.80	15.50
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	4500.00	56.5 PK	74.0	-17.5	1.00 V	181	55.60	0.90
2	4500.00	44.7 AV	54.0	-9.3	1.00 V	181	43.80	0.90
3	*5260.00	97.8 PK			1.03 V	130	58.20	39.60
4	*5260.00	87.0 AV			1.03 V	130	47.40	39.60
5	#10520.00	61.5 PK	68.2	-6.7	1.00 V	43	46.00	15.50

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5300.00	94.1 PK			1.00 H	70	54.50	39.60
2	*5300.00	83.3 AV			1.00 H	70	43.70	39.60
3	10600.00	62.6 PK	74.0	-11.4	1.00 H	10	46.70	15.90
4	10600.00	48.3 AV	54.0	-5.7	1.00 H	10	32.40	15.90
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	*5300.00	99.6 PK			1.00 V	105	60.00	39.60
2	*5300.00	89.1 AV			1.00 V	105	49.50	39.60
3	10600.00	61.8 PK	74.0	-12.2	1.00 V	161	45.90	15.90
4	10600.00	48.6 AV	54.0	-5.4	1.00 V	161	32.70	15.90

**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	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5320.00	89.9 PK			1.00 H	242	50.20	39.70
2	*5320.00	79.2 AV			1.00 H	242	39.50	39.70
3	5460.00	58.5 PK	74.0	-15.5	1.00 H	272	55.70	2.80
4	5460.00	44.9 AV	54.0	-9.1	1.00 H	272	42.10	2.80
5	10640.00	62.0 PK	74.0	-12.0	1.00 H	163	46.10	15.90
6	10640.00	49.5 AV	54.0	-4.5	1.00 H	163	33.60	15.90
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	*5320.00	97.0 PK			1.00 V	130	57.30	39.70
2	*5320.00	86.4 AV			1.00 V	130	46.70	39.70
3	5460.00	58.1 PK	74.0	-15.9	1.00 V	161	55.30	2.80
4	5460.00	44.9 AV	54.0	-9.1	1.00 V	161	42.10	2.80
5	10640.00	61.5 PK	74.0	-12.5	1.04 V	307	45.60	15.90
6	10640.00	48.2 AV	54.0	-5.8	1.04 V	307	32.30	15.90

**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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	59.7 PK	74.0	-14.3	1.01 H	29	56.90	2.80
2	5460.00	44.9 AV	54.0	-9.1	1.01 H	29	42.10	2.80
3	#5470.00	58.9 PK	68.2	-9.3	1.01 H	74	56.00	2.90
4	*5500.00	90.2 PK			1.00 H	95	50.30	39.90
5	*5500.00	79.1 AV			1.00 H	95	39.20	39.90
6	11000.00	60.8 PK	74.0	-13.2	1.00 H	131	43.80	17.00
7	11000.00	47.8 AV	54.0	-6.2	1.00 H	131	30.80	17.00
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	5460.00	58.6 PK	74.0	-15.4	1.00 V	59	55.80	2.80
2	5460.00	45.1 AV	54.0	-8.9	1.00 V	59	42.30	2.80
3	#5470.00	59.5 PK	68.2	-8.7	1.00 V	107	56.60	2.90
4	*5500.00	99.3 PK			1.00 V	117	59.40	39.90
5	*5500.00	88.7 AV			1.00 V	117	48.80	39.90
6	11000.00	59.8 PK	74.0	-14.2	1.00 V	279	42.80	17.00
7	11000.00	46.5 AV	54.0	-7.5	1.00 V	279	29.50	17.00

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5600.00	94.5 PK			1.01 H	77	54.50	40.00
2	*5600.00	83.9 AV			1.01 H	77	43.90	40.00
3	11200.00	59.4 PK	74.0	-14.6	1.00 H	198	42.60	16.80
4	11200.00	46.8 AV	54.0	-7.2	1.00 H	198	30.00	16.80
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	*5600.00	102.8 PK			1.00 V	23	62.80	40.00
2	*5600.00	92.3 AV			1.00 V	23	52.30	40.00
3	11200.00	59.3 PK	74.0	-14.7	1.00 V	206	42.50	16.80
4	11200.00	45.9 AV	54.0	-8.1	1.00 V	206	29.10	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5700.00	91.9 PK			1.00 H	78	51.70	40.20
2	*5700.00	81.1 AV			1.00 H	78	40.90	40.20
3	#5725.00	56.5 PK	68.2	-11.7	1.00 H	162	53.20	3.30
4	11400.00	60.9 PK	74.0	-13.1	1.05 H	64	45.10	15.80
5	11400.00	48.0 AV	54.0	-6.0	1.05 H	64	32.20	15.80
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	*5700.00	100.0 PK			1.00 V	283	59.80	40.20
2	*5700.00	89.0 AV			1.00 V	283	48.80	40.20
3	#5725.00	57.6 PK	68.2	-10.6	1.00 V	242	54.30	3.30
4	11400.00	60.6 PK	74.0	-13.4	1.00 V	93	44.80	15.80
5	11400.00	48.0 AV	54.0	-6.0	1.00 V	93	32.20	15.80

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.7 PK	74.0	-15.3	1.00 H	68	55.80	2.90
2	#5470.00	45.2 AV	54.0	-8.8	1.00 H	68	42.30	2.90
3	*5720.00	95.9 PK			1.00 H	75	55.60	40.30
4	*5720.00	85.7 AV			1.00 H	75	45.40	40.30
5	#5850.00	57.1 PK	74.0	-16.9	1.00 H	121	53.70	3.40
6	#5850.00	43.6 AV	54.0	-10.4	1.00 H	121	40.20	3.40
7	11440.00	61.0 PK	74.0	-13.0	1.00 H	108	45.20	15.80
8	11440.00	48.9 AV	54.0	-5.1	1.00 H	108	33.10	15.80

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	#5470.00	59.0 PK	74.0	-15.0	1.00 V	321	56.10	2.90
2	#5470.00	45.3 AV	54.0	-8.7	1.00 V	321	42.40	2.90
3	*5720.00	102.8 PK			1.00 V	253	62.50	40.30
4	*5720.00	92.2 AV			1.00 V	253	51.90	40.30
5	#5850.00	56.2 PK	74.0	-17.8	1.00 V	266	52.80	3.40
6	#5850.00	43.2 AV	54.0	-10.8	1.00 V	266	39.80	3.40
7	11400.00	61.0 PK	74.0	-13.0	1.00 V	23	45.20	15.80
8	11400.00	48.1 AV	54.0	-5.9	1.00 V	23	32.30	15.80

**REMARKS:**

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

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5150.00	47.1 PK	74.0	-26.9	1.16 H	87	44.70	2.40
2	5150.00	35.1 AV	54.0	-18.9	1.16 H	87	32.70	2.40
3	*5190.00	87.1 PK			1.09 H	83	47.60	39.50
4	*5190.00	76.2 AV			1.09 H	83	36.70	39.50
5	#10380.00	60.4 PK	68.2	-7.8	1.10 H	360	46.30	14.10
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	5150.00	54.0 PK	74.0	-20.0	1.20 V	104	51.60	2.40
2	5150.00	40.6 AV	54.0	-13.4	1.20 V	104	38.20	2.40
3	*5190.00	95.4 PK			1.34 V	106	55.90	39.50
4	*5190.00	84.4 AV			1.34 V	106	44.90	39.50
5	#10380.00	60.8 PK	68.2	-7.4	1.00 V	10	46.70	14.10

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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5230.00	95.3 PK			1.13 H	85	55.70	39.60
2	*5230.00	84.3 AV			1.13 H	85	44.70	39.60
3	#10460.00	61.2 PK	68.2	-7.0	1.10 H	360	46.40	14.80
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	*5230.00	101.5 PK			1.31 V	115	61.90	39.60
2	*5230.00	91.0 AV			1.31 V	115	51.40	39.60
3	#10460.00	61.9 PK	68.2	-6.3	1.05 V	180	47.10	14.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5270.00	85.9 PK			1.00 H	242	46.30	39.60
2	*5270.00	75.7 AV			1.00 H	242	36.10	39.60
3	5460.00	58.6 PK	74.0	-15.4	1.00 H	70	55.80	2.80
4	5460.00	45.2 AV	54.0	-8.8	1.00 H	70	42.40	2.80
5	#10540.00	62.0 PK	68.2	-6.2	1.00 H	38	46.40	15.60
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	*5270.00	93.5 PK			1.02 V	106	53.90	39.60
2	*5270.00	82.7 AV			1.02 V	106	43.10	39.60
3	5460.00	58.1 PK	74.0	-15.9	1.00 V	119	55.30	2.80
4	5460.00	45.1 AV	54.0	-8.9	1.00 V	119	42.30	2.80
5	#10540.00	62.6 PK	68.2	-5.6	1.00 V	248	47.00	15.60

**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 the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5310.00	85.8 PK			1.00 H	60	46.20	39.60
2	*5310.00	75.0 AV			1.00 H	60	35.40	39.60
3	5460.00	58.5 PK	74.0	-15.5	1.00 H	21	55.70	2.80
4	5460.00	45.8 AV	54.0	-8.2	1.00 H	21	43.00	2.80
5	10620.00	62.6 PK	74.0	-11.4	1.00 H	60	46.70	15.90
6	10620.00	49.0 AV	54.0	-5.0	1.00 H	60	33.10	15.90
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	*5310.00	93.4 PK			1.00 V	106	53.80	39.60
2	*5310.00	83.9 AV			1.00 V	106	44.30	39.60
3	5460.00	57.8 PK	74.0	-16.2	1.00 V	95	55.00	2.80
4	5460.00	45.1 AV	54.0	-8.9	1.00 V	95	42.30	2.80
5	10620.00	62.3 PK	74.0	-11.7	1.00 V	139	46.40	15.90
6	10620.00	48.6 AV	54.0	-5.4	1.00 V	139	32.70	15.90

**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	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	57.8 PK	74.0	-16.2	1.00 H	114	55.00	2.80
2	5460.00	44.9 AV	54.0	-9.1	1.00 H	114	42.10	2.80
3	*5510.00	85.1 PK			1.06 H	83	45.20	39.90
4	*5510.00	74.7 AV			1.06 H	83	34.80	39.90
5	11020.00	60.4 PK	74.0	-13.6	1.00 H	54	43.40	17.00
6	11020.00	46.5 AV	54.0	-7.5	1.00 H	54	29.50	17.00
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	5460.00	59.1 PK	74.0	-14.9	1.06 V	16	56.30	2.80
2	5460.00	45.3 AV	54.0	-8.7	1.06 V	16	42.50	2.80
3	*5510.00	94.1 PK			1.54 V	115	54.20	39.90
4	*5510.00	83.3 AV			1.54 V	115	43.40	39.90
5	11020.00	60.3 PK	74.0	-13.7	1.00 V	233	43.30	17.00
6	11020.00	47.0 AV	54.0	-7.0	1.00 V	233	30.00	17.00

**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	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5590.00	92.3 PK			1.63 H	79	52.30	40.00
2	*5590.00	81.9 AV			1.63 H	79	41.90	40.00
3	11180.00	60.6 PK	74.0	-13.4	1.00 H	125	43.80	16.80
4	11180.00	47.0 AV	54.0	-7.0	1.00 H	125	30.20	16.80
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	*5590.00	101.1 PK			1.00 V	206	61.10	40.00
2	*5590.00	91.4 AV			1.00 V	206	51.40	40.00
3	11180.00	59.4 PK	74.0	-14.6	1.00 V	282	42.60	16.80
4	11180.00	45.9 AV	54.0	-8.1	1.00 V	282	29.10	16.80

**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	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5670.00	93.3 PK			1.00 H	78	53.10	40.20
2	*5670.00	81.8 AV			1.00 H	78	41.60	40.20
3	#5725.00	56.8 PK	68.2	-11.4	1.00 H	75	53.50	3.30
4	11340.00	61.0 PK	74.0	-13.0	1.00 H	26	44.90	16.10
5	11340.00	48.3 AV	54.0	-5.7	1.00 H	26	32.20	16.10
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	*5670.00	100.0 PK			1.00 V	254	59.80	40.20
2	*5670.00	90.2 AV			1.00 V	254	50.00	40.20
3	#5725.00	58.8 PK	68.2	-9.4	1.00 V	281	55.50	3.30
4	11340.00	61.1 PK	74.0	-12.9	1.00 V	240	45.00	16.10
5	11340.00	47.6 AV	54.0	-6.4	1.00 V	240	31.50	16.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.5 PK	74.0	-15.5	1.00 H	136	55.60	2.90
2	#5470.00	45.7 AV	54.0	-8.3	1.00 H	136	42.80	2.90
3	*5710.00	94.2 PK			1.00 H	61	53.90	40.30
4	*5710.00	84.3 AV			1.00 H	61	44.00	40.30
5	#5850.00	57.0 PK	74.0	-17.0	1.89 H	100	53.60	3.40
6	#5850.00	43.5 AV	54.0	-10.5	1.89 H	100	40.10	3.40
7	11420.00	61.7 PK	74.0	-12.3	1.00 H	20	46.00	15.70
8	11420.00	48.0 AV	54.0	-6.0	1.00 H	20	32.30	15.70

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	#5470.00	57.8 PK	74.0	-16.2	1.00 V	21	54.90	2.90
2	#5470.00	45.8 AV	54.0	-8.2	1.00 V	21	42.90	2.90
3	*5710.00	101.3 PK			1.00 V	246	61.00	40.30
4	*5710.00	90.9 AV			1.00 V	246	50.60	40.30
5	#5850.00	56.2 PK	74.0	-17.8	1.00 V	323	52.80	3.40
6	#5850.00	43.4 AV	54.0	-10.6	1.00 V	323	40.00	3.40
7	11420.00	61.7 PK	74.0	-12.3	1.00 V	29	46.00	15.70
8	11420.00	48.7 AV	54.0	-5.3	1.00 V	29	33.00	15.70

**REMARKS:**

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

802.11ac (80MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 42	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5150.00	45.4 PK	74.0	-28.6	1.10 H	100	43.00	2.40
2	5150.00	34.9 AV	54.0	-19.1	1.10 H	100	32.50	2.40
3	*5210.00	82.9 PK			1.10 H	98	43.40	39.50
4	*5210.00	72.4 AV			1.10 H	98	32.90	39.50
5	#10420.00	61.1 PK	68.2	-7.1	1.00 H	100	46.70	14.40

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	5150.00	54.2 PK	74.0	-19.8	1.21 V	106	51.80	2.40
2	5150.00	41.2 AV	54.0	-12.8	1.21 V	106	38.80	2.40
3	*5210.00	91.1 PK			1.30 V	115	51.60	39.50
4	*5210.00	80.0 AV			1.30 V	115	40.50	39.50
5	#10420.00	61.6 PK	68.2	-6.6	1.10 V	180	47.20	14.40

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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 58	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5290.00	80.9 PK			1.00 H	72	41.30	39.60
2	*5290.00	70.7 AV			1.00 H	72	31.10	39.60
3	5460.00	58.9 PK	74.0	-15.1	1.00 H	105	56.10	2.80
4	5460.00	45.0 AV	54.0	-9.0	1.00 H	105	42.20	2.80
5	#10580.00	62.3 PK	68.2	-5.9	1.00 H	119	46.60	15.70
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	*5290.00	91.7 PK			1.02 V	104	52.10	39.60
2	*5290.00	80.8 AV			1.02 V	104	41.20	39.60
3	5460.00	58.9 PK	74.0	-15.1	1.00 V	1	56.10	2.80
4	5460.00	45.4 AV	54.0	-8.6	1.00 V	1	42.60	2.80
5	#10580.00	61.4 PK	68.2	-6.8	1.00 V	38	45.70	15.70

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 106	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	58.1 PK	74.0	-15.9	1.00 H	203	55.30	2.80
2	5460.00	45.1 AV	54.0	-8.9	1.00 H	203	42.30	2.80
3	#5470.00	58.9 PK	68.2	-9.3	1.00 H	350	56.00	2.90
4	*5530.00	84.6 PK			1.38 H	78	44.70	39.90
5	*5530.00	73.9 AV			1.38 H	78	34.00	39.90
6	11060.00	60.5 PK	74.0	-13.5	1.00 H	26	43.70	16.80
7	11060.00	47.1 AV	54.0	-6.9	1.00 H	26	30.30	16.80
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	5460.00	61.1 PK	74.0	-12.9	1.00 V	136	58.30	2.80
2	5460.00	47.3 AV	54.0	-6.7	1.00 V	136	44.50	2.80
3	#5470.00	61.9 PK	68.2	-6.3	1.00 V	139	59.00	2.90
4	*5530.00	91.5 PK			1.17 V	122	51.60	39.90
5	*5530.00	80.7 AV			1.17 V	122	40.80	39.90
6	11060.00	60.2 PK	74.0	-13.8	1.00 V	305	43.40	16.80
7	11060.00	46.5 AV	54.0	-7.5	1.00 V	305	29.70	16.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 122	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	61.5 PK	68.2	-6.7	1.00 H	233	58.60	2.90
2	*5610.00	88.5 PK			1.13 H	78	48.50	40.00
3	*5610.00	77.7 AV			1.13 H	78	37.70	40.00
4	11220.00	60.5 PK	74.0	-13.5	1.00 H	29	43.90	16.60
5	11220.00	47.8 AV	54.0	-6.2	1.00 H	29	31.20	16.60

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	#5470.00	59.3 PK	68.2	-8.9	1.00 V	352	56.40	2.90
2	*5610.00	96.4 PK			1.00 V	19	56.40	40.00
3	*5610.00	85.6 AV			1.00 V	19	45.60	40.00
4	11220.00	60.0 PK	74.0	-14.0	1.00 V	185	43.40	16.60
5	11220.00	46.9 AV	54.0	-7.1	1.00 V	185	30.30	16.60

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	59.0 PK	74.0	-15.0	1.00 H	236	56.10	2.90
2	#5470.00	46.8 AV	54.0	-7.2	1.00 H	236	43.90	2.90
3	*5690.00	91.6 PK			1.00 H	62	51.40	40.20
4	*5690.00	81.2 AV			1.00 H	62	41.00	40.20
5	#5850.00	57.5 PK	74.0	-16.5	1.00 H	123	54.10	3.40
6	#5850.00	44.3 AV	54.0	-9.7	1.00 H	123	40.90	3.40
7	11380.00	61.7 PK	74.0	-12.3	1.00 H	10	45.90	15.80
8	11380.00	47.9 AV	54.0	-6.1	1.00 H	10	32.10	15.80

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	#5470.00	58.5 PK	74.0	-15.5	1.00 V	121	55.60	2.90
2	#5470.00	45.8 AV	54.0	-8.2	1.00 V	121	42.90	2.90
3	*5690.00	99.1 PK			1.00 V	252	58.90	40.20
4	*5690.00	88.8 AV			1.00 V	252	48.60	40.20
5	#5850.00	59.3 PK	74.0	-14.7	1.00 V	121	55.90	3.40
6	#5850.00	45.5 AV	54.0	-8.5	1.00 V	121	42.10	3.40
7	11380.00	62.2 PK	74.0	-11.8	1.00 V	321	46.40	15.80
8	11380.00	47.9 AV	54.0	-6.1	1.00 V	321	32.10	15.80

**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 the restricted band.

Chain 0 + 1

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5150.00	48.2 PK	74.0	-25.8	1.46 H	86	45.80	2.40
2	5150.00	35.8 AV	54.0	-18.2	1.46 H	86	33.40	2.40
3	*5180.00	93.4 PK			1.43 H	82	54.00	39.40
4	*5180.00	83.6 AV			1.43 H	82	44.20	39.40
5	#10360.00	60.1 PK	68.2	-8.1	1.00 H	180	46.20	13.90
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	5150.00	59.0 PK	74.0	-15.0	1.01 V	274	56.60	2.40
2	5150.00	42.3 AV	54.0	-11.7	1.01 V	274	39.90	2.40
3	*5180.00	101.7 PK			1.33 V	278	62.30	39.40
4	*5180.00	92.5 AV			1.33 V	278	53.10	39.40
5	#10360.00	61.1 PK	68.2	-7.1	1.00 V	256	47.20	13.90

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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5200.00	93.8 PK			1.13 H	145	54.30	39.50
2	*5200.00	83.7 AV			1.13 H	145	44.20	39.50
3	#10400.00	59.4 PK	68.2	-8.8	1.08 H	80	45.30	14.10
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	*5200.00	102.9 PK			1.32 V	110	63.40	39.50
2	*5200.00	92.0 AV			1.32 V	110	52.50	39.50
3	#10400.00	60.7 PK	68.2	-7.5	1.30 V	300	46.60	14.10

**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 the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5240.00	94.6 PK			1.37 H	86	55.00	39.60
2	*5240.00	83.9 AV			1.37 H	86	44.30	39.60
3	#10480.00	60.2 PK	68.2	-8.0	1.30 H	0	44.90	15.30
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	*5240.00	103.5 PK			1.19 V	114	63.90	39.60
2	*5240.00	93.3 AV			1.19 V	114	53.70	39.60
3	#10480.00	61.9 PK	68.2	-6.3	1.15 V	300	46.60	15.30

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5260.00	94.1 PK			1.11 H	145	54.50	39.60
2	*5260.00	83.2 AV			1.11 H	145	43.60	39.60
3	#10520.00	61.8 PK	68.2	-6.4	1.10 H	360	46.30	15.50
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	*5260.00	102.6 PK			1.20 V	109	63.00	39.60
2	*5260.00	92.1 AV			1.20 V	109	52.50	39.60
3	#10520.00	62.1 PK	68.2	-6.1	1.10 V	180	46.60	15.50

**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 the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5300.00	94.9 PK			1.00 H	197	55.30	39.60
2	*5300.00	84.6 AV			1.00 H	197	45.00	39.60
3	10600.00	62.2 PK	74.0	-11.8	1.10 H	300	46.30	15.90
4	10600.00	49.2 AV	54.0	-4.8	1.10 H	300	33.30	15.90
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	*5300.00	103.9 PK			1.26 V	147	64.30	39.60
2	*5300.00	93.4 AV			1.26 V	147	53.80	39.60
3	10600.00	62.5 PK	74.0	-11.5	1.20 V	360	46.60	15.90
4	10600.00	49.4 AV	54.0	-4.6	1.20 V	360	33.50	15.90

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5320.00	91.5 PK			1.09 H	171	51.80	39.70
2	*5320.00	81.2 AV			1.09 H	171	41.50	39.70
3	5350.00	47.2 PK	74.0	-26.8	1.08 H	86	44.60	2.60
4	5350.00	34.9 AV	54.0	-19.1	1.08 H	86	32.30	2.60
5	10640.00	63.7 PK	74.0	-10.3	1.10 H	0	47.80	15.90
6	10640.00	50.4 AV	54.0	-3.6	1.10 H	0	34.50	15.90
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	*5320.00	100.1 PK			1.14 V	203	60.40	39.70
2	*5320.00	89.5 AV			1.14 V	203	49.80	39.70
3	5350.00	54.5 PK	74.0	-19.5	1.14 V	186	51.90	2.60
4	5350.00	40.5 AV	54.0	-13.5	1.14 V	186	37.90	2.60
5	10640.00	64.1 PK	74.0	-9.9	1.08 V	120	48.20	15.90
6	10640.00	49.9 AV	54.0	-4.1	1.08 V	120	34.00	15.90

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	46.2 PK	74.0	-27.8	1.14 H	84	43.40	2.80
2	5460.00	33.9 AV	54.0	-20.1	1.14 H	84	31.10	2.80
3	*5500.00	91.7 PK			1.08 H	81	51.80	39.90
4	*5500.00	81.5 AV			1.08 H	81	41.60	39.90
5	#5670.00	46.4 PK	68.2		1.14 H	84	43.20	3.20
6	11000.00	59.5 PK	74.0	-14.5	1.08 H	240	42.50	17.00
7	11000.00	46.8 AV	54.0	-7.2	1.08 H	240	29.80	17.00

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	5460.00	48.9 PK	74.0	-25.1	1.45 V	130	46.10	2.80
2	5460.00	37.1 AV	54.0	-16.9	1.45 V	130	34.30	2.80
3	#5470.00	52.6 PK	68.2	-15.6	1.42 V	136	49.70	2.90
4	*5500.00	100.0 PK			1.42 V	136	60.10	39.90
5	*5500.00	90.0 AV			1.42 V	136	50.10	39.90
6	11000.00	60.1 PK	74.0	-13.9	1.00 V	33	43.10	17.00
7	11000.00	46.7 AV	54.0	-7.3	1.00 V	33	29.70	17.00

**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 the restricted band.





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5600.00	96.2 PK			1.00 H	225	56.20	40.00
2	*5600.00	85.5 AV			1.00 H	225	45.50	40.00
3	11200.00	60.0 PK	74.0	-14.0	1.00 H	180	43.20	16.80
4	11200.00	46.8 AV	54.0	-7.2	1.00 H	180	30.00	16.80
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	*5600.00	106.3 PK			1.50 V	155	66.30	40.00
2	*5600.00	95.6 AV			1.50 V	155	55.60	40.00
3	11200.00	60.6 PK	74.0	-13.4	1.00 V	360	43.80	16.80
4	11200.00	46.9 AV	54.0	-7.1	1.00 V	360	30.10	16.80

**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	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

**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	*5700.00	96.3 PK			1.28 H	226	56.10	40.20
2	*5700.00	86.2 AV			1.28 H	226	46.00	40.20
3	#5725.00	49.7 PK	68.2	-18.5	1.27 H	227	46.40	3.30
4	11400.00	59.0 PK	74.0	-15.0	1.00 H	360	43.20	15.80
5	11400.00	46.1 AV	54.0	-7.9	1.00 H	360	30.30	15.80

**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	*5700.00	103.8 PK			1.43 V	143	63.60	40.20
2	*5700.00	93.8 AV			1.43 V	143	53.60	40.20
3	#5725.00	58.4 PK	68.2	-9.8	1.31 V	141	55.10	3.30
4	11400.00	61.0 PK	74.0	-13.0	1.30 V	180	45.20	15.80
5	11400.00	46.9 AV	54.0	-7.1	1.30 V	180	31.10	15.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	59.2 PK	74.0	-14.8	1.01 H	218	56.30	2.90
2	#5470.00	46.0 AV	54.0	-8.0	1.01 H	218	43.10	2.90
3	*5720.00	98.3 PK			1.74 H	218	58.00	40.30
4	*5720.00	87.2 AV			1.74 H	218	46.90	40.30
5	#5850.00	57.3 PK	74.0	-16.7	1.00 H	20	53.90	3.40
6	#5850.00	43.9 AV	54.0	-10.1	1.00 H	20	40.50	3.40
7	11440.00	62.0 PK	74.0	-12.0	1.00 H	33	46.20	15.80
8	11440.00	48.9 AV	54.0	-5.1	1.00 H	33	33.10	15.80

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	#5470.00	58.4 PK	74.0	-15.6	1.00 V	121	55.50	2.90
2	#5470.00	45.3 AV	54.0	-8.7	1.00 V	121	42.40	2.90
3	*5720.00	106.3 PK			1.00 V	249	66.00	40.30
4	*5720.00	95.7 AV			1.00 V	249	55.40	40.30
5	#5850.00	56.5 PK	74.0	-17.5	1.00 V	121	53.10	3.40
6	#5850.00	43.2 AV	54.0	-10.8	1.00 V	121	39.80	3.40
7	11440.00	61.4 PK	74.0	-12.6	1.00 V	210	45.60	15.80
8	11440.00	48.0 AV	54.0	-6.0	1.00 V	210	32.20	15.80

**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 the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.6 PK	74.0	-16.4	1.00 H	162	56.70	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 H	162	44.00	0.90
3	*5190.00	81.8 PK			1.00 H	152	42.30	39.50
4	*5190.00	72.1 AV			1.00 H	152	32.60	39.50
5	#10380.00	61.0 PK	68.2	-7.2	1.00 H	192	46.90	14.10
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	4500.00	58.0 PK	74.0	-16.0	1.00 V	28	57.10	0.90
2	4500.00	45.1 AV	54.0	-8.9	1.00 V	28	44.20	0.90
3	*5190.00	91.3 PK			1.00 V	264	51.80	39.50
4	*5190.00	80.7 AV			1.00 V	264	41.20	39.50
5	#10380.00	61.2 PK	68.2	-7.0	1.00 V	20	47.10	14.10

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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5230.00	90.0 PK			1.00 H	152	50.40	39.60
2	*5230.00	80.0 AV			1.00 H	152	40.40	39.60
3	5460.00	58.0 PK	74.0	-16.0	1.00 H	332	55.20	2.80
4	5460.00	45.0 AV	54.0	-9.0	1.00 H	332	42.20	2.80
5	#10460.00	61.1 PK	68.2	-7.1	1.00 H	315	46.30	14.80
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	*5230.00	98.6 PK			1.61 V	258	59.00	39.60
2	*5230.00	88.4 AV			1.61 V	258	48.80	39.60
3	5460.00	58.0 PK	74.0	-16.0	1.00 V	14	55.20	2.80
4	5460.00	45.2 AV	54.0	-8.8	1.00 V	14	42.40	2.80
5	#10460.00	61.1 PK	68.2	-7.1	1.00 V	329	46.30	14.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.0 PK	74.0	-17.0	1.00 H	20	56.10	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 H	20	44.00	0.90
3	*5270.00	87.6 PK			1.00 H	152	48.00	39.60
4	*5270.00	77.3 AV			1.00 H	152	37.70	39.60
5	#10540.00	62.5 PK	68.2	-5.7	1.00 H	233	46.90	15.60
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	4500.00	57.6 PK	74.0	-16.4	1.00 V	42	56.70	0.90
2	4500.00	44.9 AV	54.0	-9.1	1.00 V	42	44.00	0.90
3	*5270.00	97.3 PK			1.00 V	267	57.70	39.60
4	*5270.00	86.7 AV			1.00 V	267	47.10	39.60
5	#10540.00	61.9 PK	68.2	-6.3	1.00 V	262	46.30	15.60

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5310.00	87.1 PK			1.00 H	150	47.50	39.60
2	*5310.00	76.7 AV			1.00 H	150	37.10	39.60
3	5350.00	59.1 PK	74.0	-14.9	1.00 H	20	56.50	2.60
4	5350.00	45.1 AV	54.0	-8.9	1.00 H	20	42.50	2.60
5	10620.00	61.9 PK	74.0	-12.1	1.00 H	129	46.00	15.90
6	10620.00	48.8 AV	54.0	-5.2	1.00 H	129	32.90	15.90
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	*5310.00	96.3 PK			1.00 V	127	56.70	39.60
2	*5310.00	85.1 AV			1.00 V	127	45.50	39.60
3	5350.00	57.9 PK	74.0	-16.1	1.00 V	129	55.30	2.60
4	5350.00	45.0 AV	54.0	-9.0	1.00 V	129	42.40	2.60
5	10620.00	62.5 PK	74.0	-11.5	1.35 V	325	46.60	15.90
6	10620.00	49.0 AV	54.0	-5.0	1.35 V	325	33.10	15.90

**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	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	5460.00	58.0 PK	74.0	-16.0	1.20 H	259	55.20	2.80
2	5460.00	45.0 AV	54.0	-9.0	1.20 H	259	42.20	2.80
3	#5470.00	58.9 PK	68.2	-9.3	1.26 H	270	56.00	2.90
4	*5510.00	88.2 PK			1.19 H	36	48.30	39.90
5	*5510.00	77.6 AV			1.19 H	36	37.70	39.90
6	11020.00	59.4 PK	74.0	-14.6	1.00 H	15	42.40	17.00
7	11020.00	45.4 AV	54.0	-8.6	1.00 H	15	28.40	17.00
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	5460.00	58.3 PK	74.0	-15.7	1.00 V	317	55.50	2.80
2	5460.00	45.1 AV	54.0	-8.9	1.00 V	317	42.30	2.80
3	#5470.00	59.5 PK	68.2	-8.7	1.00 V	315	56.60	2.90
4	*5510.00	98.5 PK			1.00 V	13	58.60	39.90
5	*5510.00	87.8 AV			1.00 V	13	47.90	39.90
6	11020.00	59.4 PK	74.0	-14.6	1.00 V	59	42.40	17.00
7	11020.00	45.4 AV	54.0	-8.6	1.00 V	59	28.40	17.00

**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 the restricted band.





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5590.00	92.3 PK			1.26 H	220	52.30	40.00
2	*5590.00	81.9 AV			1.26 H	220	41.90	40.00
3	11180.00	58.1 PK	74.0	-15.9	1.00 H	323	41.30	16.80
4	11180.00	47.4 AV	54.0	-6.6	1.00 H	323	30.60	16.80
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	*5590.00	100.1 PK			1.00 V	173	60.10	40.00
2	*5590.00	89.7 AV			1.00 V	173	49.70	40.00
3	11180.00	58.5 PK	74.0	-15.5	1.03 V	358	41.70	16.80
4	11180.00	46.9 AV	54.0	-7.1	1.03 V	358	30.10	16.80

**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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5670.00	93.6 PK			1.04 H	186	53.40	40.20
2	*5670.00	83.2 AV			1.04 H	186	43.00	40.20
3	#5725.00	56.8 PK	68.2	-11.4	1.00 H	340	53.50	3.30
4	11340.00	60.8 PK	74.0	-13.2	1.24 H	269	44.70	16.10
5	11340.00	48.4 AV	54.0	-5.6	1.24 H	269	32.30	16.10
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	*5670.00	101.6 PK			1.24 V	124	61.40	40.20
2	*5670.00	91.1 AV			1.24 V	124	50.90	40.20
3	#5725.00	57.4 PK	68.2	-10.8	1.00 V	126	54.10	3.30
4	11340.00	61.1 PK	74.0	-12.9	1.00 V	351	45.00	16.10
5	11340.00	47.3 AV	54.0	-6.7	1.00 V	351	31.20	16.10

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.9 PK	74.0	-15.1	N/A H	N/A	56.00	2.90
2	#5470.00	46.1 AV	54.0	-7.9	N/A H	N/A	43.20	2.90
3	*5710.00	95.1 PK			1.00 H	61	54.80	40.30
4	*5710.00	84.3 AV			1.00 H	61	44.00	40.30
5	#5850.00	56.6 PK	74.0	-17.4	1.00 H	32	53.20	3.40
6	#5850.00	43.6 AV	54.0	-10.4	1.00 H	32	40.20	3.40
7	11420.00	60.6 PK	74.0	-13.4	1.00 H	120	44.90	15.70
8	11420.00	48.0 AV	54.0	-6.0	1.00 H	120	32.30	15.70

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	#5470.00	59.3 PK	74.0	-14.7	1.00 V	126	56.40	2.90
2	#5470.00	45.4 AV	54.0	-8.6	1.00 V	126	42.50	2.90
3	*5710.00	103.8 PK			1.00 V	282	63.50	40.30
4	*5710.00	93.4 AV			1.00 V	282	53.10	40.30
5	#5850.00	57.6 PK	74.0	-16.4	1.00 V	63	54.20	3.40
6	#5850.00	43.5 AV	54.0	-10.5	1.00 V	63	40.10	3.40
7	11420.00	62.0 PK	74.0	-12.0	1.00 V	103	46.30	15.70
8	11420.00	48.1 AV	54.0	-5.9	1.00 V	103	32.40	15.70

**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 the restricted band.

802.11ac (80MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 42	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	4500.00	57.8 PK	74.0	-16.2	1.00 H	41	56.90	0.90
2	4500.00	45.0 AV	54.0	-9.0	1.00 H	41	44.10	0.90
3	*5210.00	81.6 PK			1.00 H	148	42.10	39.50
4	*5210.00	69.9 AV			1.00 H	148	30.40	39.50
5	#10420.00	59.8 PK	68.2	-8.4	1.00 H	123	45.40	14.40

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	4500.00	57.8 PK	74.0	-16.2	1.00 V	77	56.90	0.90
2	4500.00	45.2 AV	54.0	-8.8	1.00 V	77	44.30	0.90
3	*5210.00	91.0 PK			1.00 V	280	51.50	39.50
4	*5210.00	78.6 AV			1.00 V	280	39.10	39.50
5	#10420.00	61.3 PK	68.2	-6.9	1.00 V	337	46.90	14.40

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 58	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	*5290.00	83.8 PK			1.00 H	182	44.20	39.60
2	*5290.00	71.7 AV			1.00 H	182	32.10	39.60
3	5350.00	57.8 PK	74.0	-16.2	1.29 H	350	55.20	2.60
4	5350.00	44.6 AV	54.0	-9.4	1.29 H	350	42.00	2.60
5	#10580.00	61.8 PK	68.2	-6.4	1.00 H	0	46.10	15.70
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	*5290.00	93.2 PK			1.00 V	270	53.60	39.60
2	*5290.00	80.2 AV			1.00 V	270	40.60	39.60
3	5350.00	58.2 PK	74.0	-15.8	1.00 V	276	55.60	2.60
4	5350.00	45.0 AV	54.0	-9.0	1.00 V	276	42.40	2.60
5	#10580.00	60.5 PK	68.2	-7.7	1.00 V	238	44.80	15.70

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 106	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	59.7 PK	68.2	-8.5	1.00 H	326	56.80	2.90
2	*5530.00	85.1 PK			1.39 H	220	45.20	39.90
3	*5530.00	72.3 AV			1.39 H	220	32.40	39.90
4	11060.00	60.3 PK	74.0	-13.7	1.00 H	349	43.50	16.80
5	11060.00	47.0 AV	54.0	-7.0	1.00 H	349	30.20	16.80
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	#5470.00	59.9 PK	68.2	-8.3	1.43 V	114	57.00	2.90
2	*5530.00	91.3 PK			1.00 V	13	51.40	39.90
3	*5530.00	79.8 AV			1.00 V	13	39.90	39.90
4	11060.00	59.8 PK	74.0	-14.2	1.00 V	265	43.00	16.80
5	11060.00	48.5 AV	54.0	-5.5	1.00 V	265	31.70	16.80

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 122	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	58.5 PK	68.2	-9.7	1.00 H	123	55.60	2.90
2	*5610.00	91.8 PK			1.03 H	220	51.80	40.00
3	*5610.00	78.8 AV			1.03 H	220	38.80	40.00
4	11220.00	60.5 PK	74.0	-13.5	1.00 H	192	43.90	16.60
5	11220.00	47.8 AV	54.0	-6.2	1.00 H	192	31.20	16.60
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	#5470.00	59.2 PK	68.2	-9.0	1.00 V	78	56.30	2.90
2	*5610.00	99.8 PK			1.00 V	9	59.80	40.00
3	*5610.00	86.7 AV			1.00 V	9	46.70	40.00
4	11220.00	59.3 PK	74.0	-14.7	1.00 V	86	42.70	16.60
5	11220.00	47.6 AV	54.0	-6.4	1.00 V	86	31.00	16.60

**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 the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	#5470.00	59.2 PK	74.0	-14.8	1.00 H	20	56.30	2.90
2	#5470.00	46.5 AV	54.0	-7.5	1.00 H	20	43.60	2.90
3	*5690.00	92.2 PK			1.00 H	317	52.00	40.20
4	*5690.00	81.2 AV			1.00 H	317	41.00	40.20
5	#5850.00	57.6 PK	74.0	-16.4	1.00 H	10	54.20	3.40
6	#5850.00	44.4 AV	54.0	-9.6	1.00 H	10	41.00	3.40
7	11380.00	61.6 PK	74.0	-12.4	1.00 H	359	45.80	15.80
8	11380.00	47.8 AV	54.0	-6.2	1.00 H	359	32.00	15.80

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	#5470.00	58.7 PK	74.0	-15.3	1.00 V	92	55.80	2.90
2	#5470.00	46.1 AV	54.0	-7.9	1.00 V	92	43.20	2.90
3	*5690.00	101.9 PK			1.00 V	168	61.70	40.20
4	*5690.00	88.3 AV			1.00 V	168	48.10	40.20
5	#5850.00	57.7 PK	74.0	-16.3	1.00 V	87	54.30	3.40
6	#5850.00	44.6 AV	54.0	-9.4	1.00 V	87	41.20	3.40
7	11380.00	61.5 PK	74.0	-12.5	1.00 V	332	45.70	15.80
8	11380.00	47.3 AV	54.0	-6.7	1.00 V	332	31.50	15.80

**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 the restricted band.



**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH	TESTED BY	Ted Chang

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	113.94	31.7 QP	43.5	-11.8	1.24 H	254	48.50	-16.80
2	207.21	36.2 QP	43.5	-7.3	1.00 H	102	52.60	-16.40
3	<b>395.30</b>	<b>42.6 QP</b>	<b>46.0</b>	<b>-3.4</b>	<b>1.00 H</b>	<b>166</b>	<b>52.70</b>	<b>-10.10</b>
4	672.00	40.8 QP	46.0	-5.2	1.00 H	301	46.00	-5.20
5	801.03	40.8 QP	46.0	-5.2	1.51 H	208	43.50	-2.70
6	902.07	39.4 QP	46.0	-6.6	1.51 H	88	40.50	-1.10

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	37.77	30.6 QP	40.0	-9.4	1.00 V	110	45.90	-15.30
2	113.94	31.3 QP	43.5	-12.2	1.00 V	150	48.10	-16.80
3	207.21	32.2 QP	43.5	-11.3	1.00 V	229	48.60	-16.40
4	395.30	36.8 QP	46.0	-9.2	1.00 V	156	46.90	-10.10
5	672.00	38.9 QP	46.0	-7.1	1.00 V	5	44.10	-5.20
6	801.03	37.1 QP	46.0	-8.9	1.00 V	124	39.80	-2.70

**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

## 4.2 CONDUCTED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ 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 0.50MHz.  
 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	100289	Nov. 29, 2013	Nov. 28, 2014
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 13, 2014	Feb. 12, 2015
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 21, 2013	Jul. 20, 2014
			Jul. 21, 2014	Jul. 20, 2015
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 1.  
 3. The VCCI Site Registration No. is C-2040.

### 4.2.3 TEST PROCEDURES

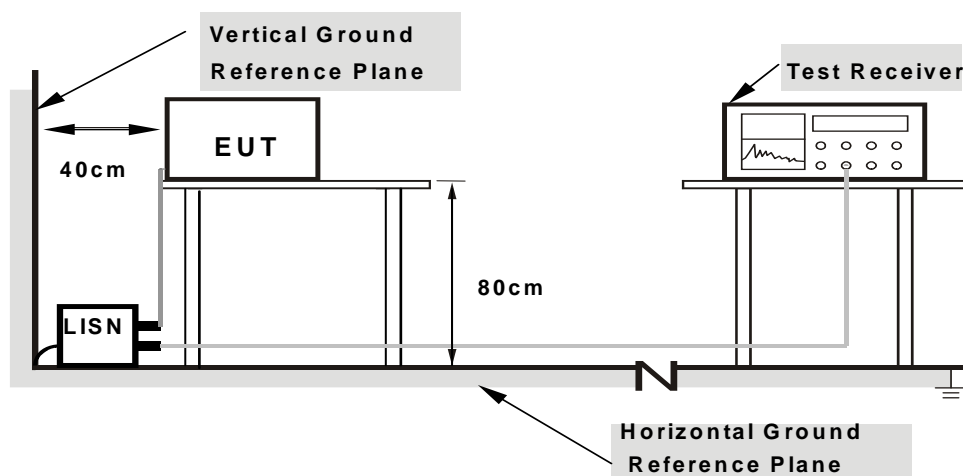
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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:**
- Support units were connected to second LISN.
  - Both of LISNs (AMN) are 80 cm from EUT and at least 80 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

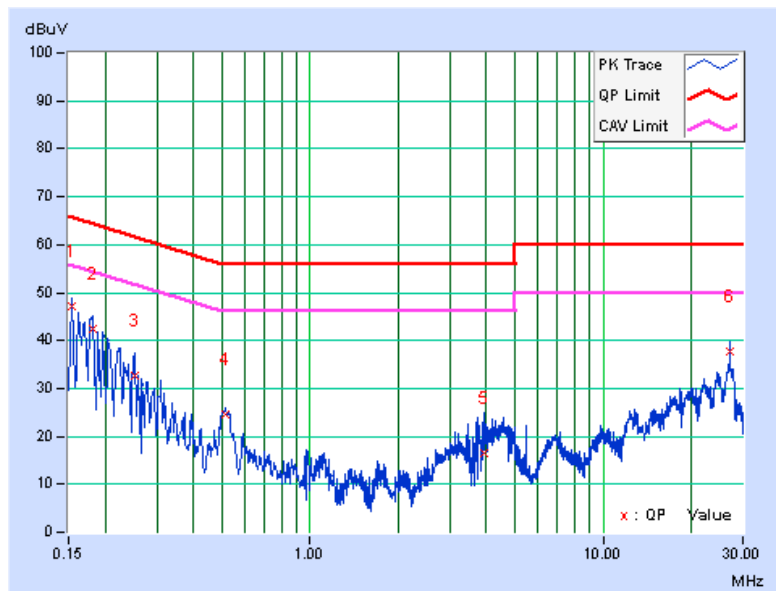
#### CONDUCTED WORST-CASE DATA : 802.11a

<b>PHASE</b>	Line 1	<b>6dB BANDWIDTH</b>	9kHz
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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	0.08	46.94	33.91	47.02	33.99	65.79	55.79	-18.77	-21.80
2	0.18075	0.07	42.27	28.43	42.34	28.50	64.45	54.45	-22.11	-25.95
3	0.25166	0.07	32.51	19.68	32.58	19.75	61.70	51.70	-29.12	-31.95
4	0.51719	0.09	24.58	19.71	24.67	19.80	56.00	46.00	-31.33	-26.20
5	3.95052	0.23	16.41	6.38	16.64	6.61	56.00	46.00	-39.36	-39.39
6	26.99997	1.25	36.35	32.78	37.60	34.03	60.00	50.00	-22.40	-15.97

#### 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

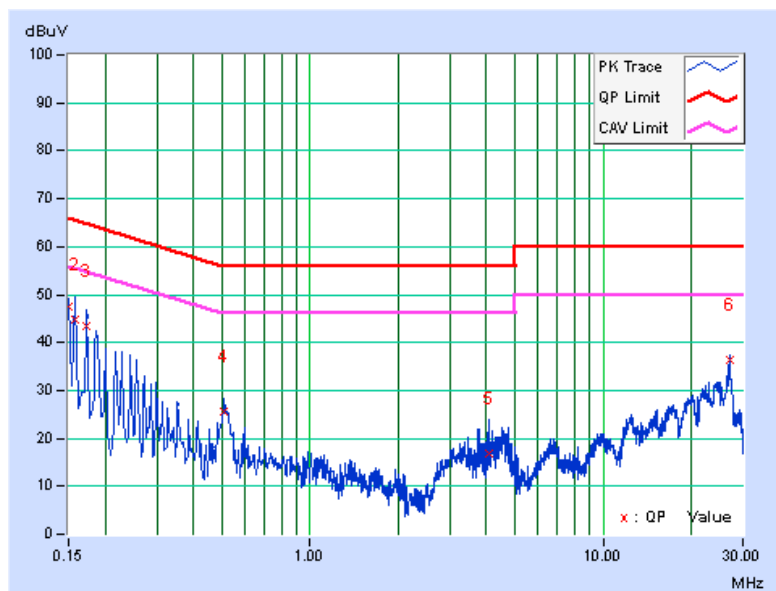


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.05	47.50	34.31	47.55	34.36	66.00	56.00	-18.45	-21.64
2	0.15782	0.05	44.82	31.05	44.87	31.10	65.58	55.58	-20.71	-24.48
3	0.17346	0.05	43.32	29.66	43.37	29.71	64.79	54.79	-21.42	-25.08
4	0.50972	0.07	25.41	20.50	25.48	20.57	56.00	46.00	-30.52	-25.43
5	4.09128	0.21	16.75	6.28	16.96	6.49	56.00	46.00	-39.04	-39.51
6	26.99997	1.06	35.39	32.13	36.45	33.19	60.00	50.00	-23.55	-16.81

**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



## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



## 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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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

## **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---**