

Partial FCC RF Test Report

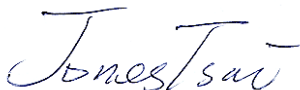
APPLICANT : FUJITSU LIMITED
EQUIPMENT : Fujitsu Stylistic Q Series Tablet PC
BRAND NAME : Fujitsu
MODEL NAME : Q704
FCC ID : EJE-WB0087
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

This is a partial report which is included conducted power, Unwanted Emissions Measurement and AC conducted emission measurement. The product was received on Sep. 17, 2013 and testing was completed on Nov. 07, 2013. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



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FCC ID : EJE-WB0087

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Report Version : Rev. 01



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR391724D	Rev. 01	Initial issue of report	Nov. 12, 2013

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.407(b)	RSS-210 A9.3	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 1.94 dB at 5150.000 MHz
3.2	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 17.70 dB at 0.198 MHz
3.3	15.407(c)	RSS-210 A9.4	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.4	15.203 & 15.407(a)	RSS-210 A9.2	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.2 Manufacturer

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Fujitsu Stylistic Q Series Tablet PC
Brand Name	Fujitsu
Model Name	Q704
FCC ID	EJE-WB0087
Integrated Module	Brand Name: Intel Model Name: 7260HMW FCC ID: PD97260H
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 Bluetooth v3.0 + EDR / v4.0-LE
EUT Stage	Pre-Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz 5660 MHz ~ 5700 MHz
Maximum Output Power	<Ant. 1> <5180 MHz ~ 5240 MHz> 802.11a : 13.49 dBm / 0.0223 W 802.11n HT20 : 13.32 dBm / 0.0215 W 802.11n HT40 : 13.37 dBm / 0.0217 W <5260 MHz ~ 5320 MHz> 802.11a : 13.47 dBm / 0.0222 W 802.11n HT20 : 13.31 dBm / 0.0214 W 802.11n HT40 : 10.94 dBm / 0.0124 W <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > 802.11a : 13.33 dBm / 0.0215 W 802.11n HT20 : 13.48 dBm / 0.0223 W 802.11n HT40 : 13.44 dBm / 0.0221 W <Ant. 2> <5180 MHz ~ 5240 MHz> 802.11a : 13.35 dBm / 0.0216 W 802.11n HT20 : 13.37 dBm / 0.0217 W 802.11n HT40 : 13.19 dBm / 0.0218 W <5260 MHz ~ 5320 MHz> 802.11a : 13.36 dBm / 0.0217 W 802.11n HT20 : 13.39 dBm / 0.0208 W 802.11n HT40 : 10.86 dBm / 0.0122 W <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > 802.11a : 13.39 dBm / 0.0218 W 802.11n HT20 : 13.40 dBm / 0.0219 W 802.11n HT40 : 13.30 dBm / 0.0214 W <MIMO Ant. 1 + 2> <5180 MHz ~ 5240 MHz> 802.11n HT20 : 11.77 dBm / 0.0150 W 802.11n HT40 : 12.50 dBm / 0.0178 W <5260 MHz ~ 5320 MHz> 802.11n HT20 : 13.00 dBm / 0.0200 W 802.11n HT40 : 8.98 dBm / 0.0079 W <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > 802.11n HT20 : 13.13 dBm / 0.0206 W 802.11n HT40 : 13.10 dBm / 0.0204 W

Product Specification subjective to this standard		
Antenna Type	<5180 MHz ~ 5240 MHz> Ant. 1 : PIFA Antenna with gain -0.55 dBi Ant. 2 : PIFA Antenna with gain 1.46 dBi <5260 MHz ~ 5320 MHz> Ant. 1 : PIFA Antenna with gain -0.55 dBi Ant. 2 : PIFA Antenna with gain 1.46 dBi <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > Ant. 1 : PIFA Antenna with gain 0.54 dBi Ant. 2 : PIFA Antenna with gain 1.24 dBi	
	Type of Modulation	
Antenna Function Description	OFDM (BPSK / QPSK / 16QAM / 64QAM)	
		Ant. 1
		Ant. 2
	802.11 a	V
	802.11 n SISO	V
	802.11 n MIMO	V

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Site

Test Site	SPORTON INTERNATIONAL INC.			
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978			
Test Site No.	Sporton Site No.			FCC/IC Registration No.
	TH02-HY	CO05-HY	03CH08-HY	636805/4086B

The test site complies with ANSI C63.4 2003 requirement.

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D01 General UNII Test Procedures v01r03
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- ♦ ANSI C63.4-2003

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5600 MHz and 5650-5725 MHz Band 3 (U-NII-2C)	100	5500	116	5580
	102	5510	132	5660
	104	5520	134	5670
	108	5540	136	5680
	110	5550	140	5700
	112	5560		

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables.

<Ant. 1>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	13.49	13.22	13.23	13.25	13.13	13.10	13.14	13.27

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.48	13.37	13.36	13.29	13.38	13.43	13.47	13.44

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.44	13.31	13.43	13.22	13.34	13.43	13.19	13.12

<Ant. 2>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	13.39	13.35	13.36	13.38	13.36	13.37	13.38	13.36

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.40	13.39	13.33	13.29	13.31	13.34	13.14	13.03

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.30	13.20	13.18	13.14	13.24	13.17	13.28	13.29

MIMO <Ant. 1+2>

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.13	13.06	13.11	13.11	13.10	13.09	13.04	12.97

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.10	12.79	12.62	12.70	12.94	12.80	12.88	12.87

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

Test Cases				
Radiated TCs	Test Items	Mode	Data Rate	Test Channel
	Radiated Band Edge	802.11a	6 Mbps	L/H
		802.11n HT20 SISO	MCS0	L/H
		802.11n HT20 MIMO	MCS8	L/H
		802.11n HT40 SISO	MCS0	L/H
		802.11n HT40 MIMO	MCS8	L/H
	Radiated Spurious Emission	802.11a	6 Mbps	L/M/H
		802.11n HT20 SISO	MCS0	L/M/H
		802.11n HT20 MIMO	MCS8	L/M/H
		802.11n HT40 SISO	MCS0	L/M/H
		802.11n HT40 MIMO	MCS8	L/M/H
	AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + USB HD + H-Pattern + Adapter 3		

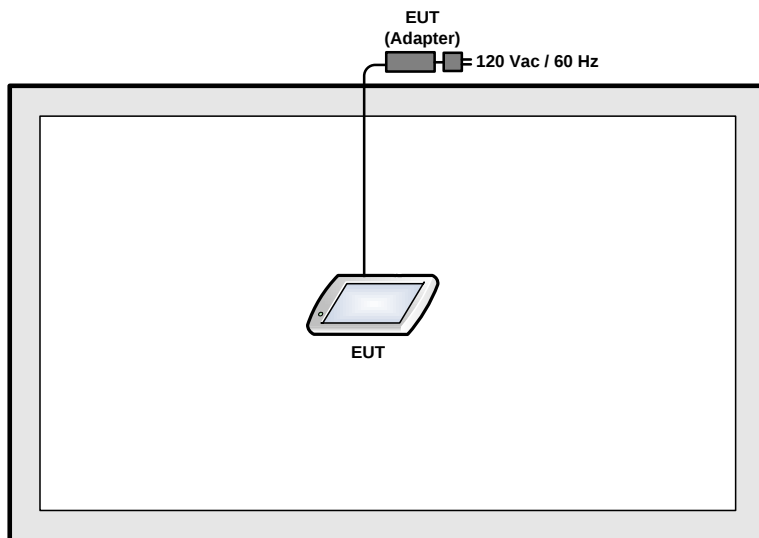
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

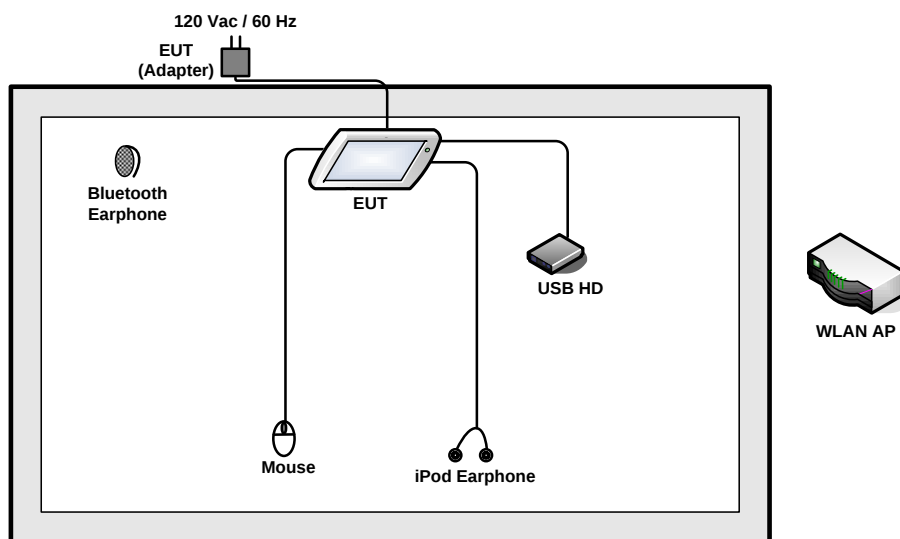
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	iPod Earphone	Apple	N/A	N/A	Unshielded, 1.0 m	N/A
4.	(USB) Mouse	Lenove	MO20BOL	FCC DoC	Shielded, 1.3 m	N/A
5.	USB HD	WD	WDBAAR3200ABK-PESN	FCC DoC	Unshielded, 0.5 m	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

The programmed RF utility “DRYU -> Wi-Fi -> Modulated Tx”, is installed in Tablet PC to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

3 Test Result

3.1 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.1.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (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: The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/m)
-17	78.3
- 27	68.3

- (3) KDB789033 v01r03 H)2)c(i) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Section H) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- The setting follows the H) 5) of FCC KDB 789033.
- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

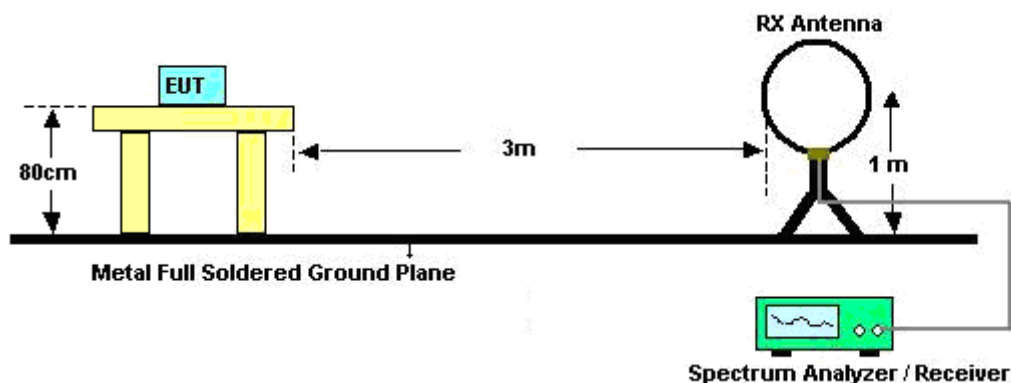
- The setting follows H) 6) of FCC KDB 789033.
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.56	-	-	10Hz
2	802.11a	98.56	-	-	10Hz
1	802.11n HT20	98.46	-	-	10Hz
2	802.11n HT20	98.46	-	-	10Hz
1	802.11n HT40	97.53	948.00	1.055	3kHz
2	802.11n HT40	96.93	948.00	1.055	3kHz
1+2	802.11n HT20 for Ant1	97.04	984.00	1.016	3kHz
1+2	802.11n HT20 for Ant2	97.04	984.00	1.016	
1+2	802.11n HT40 for Ant1	94.7	500.00	2.000	3kHz
1+2	802.11n HT40 for Ant2	94.7	500.00	2.000	

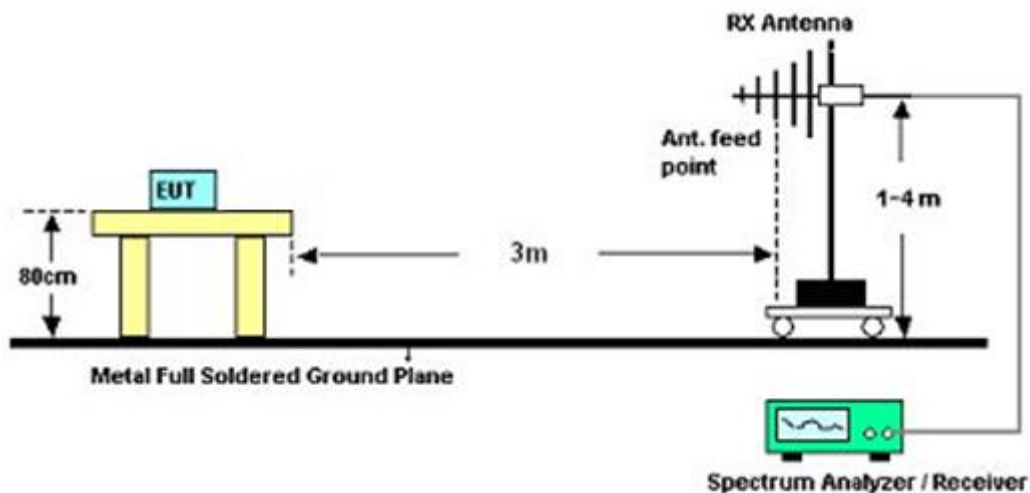
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.1.4 Test Setup

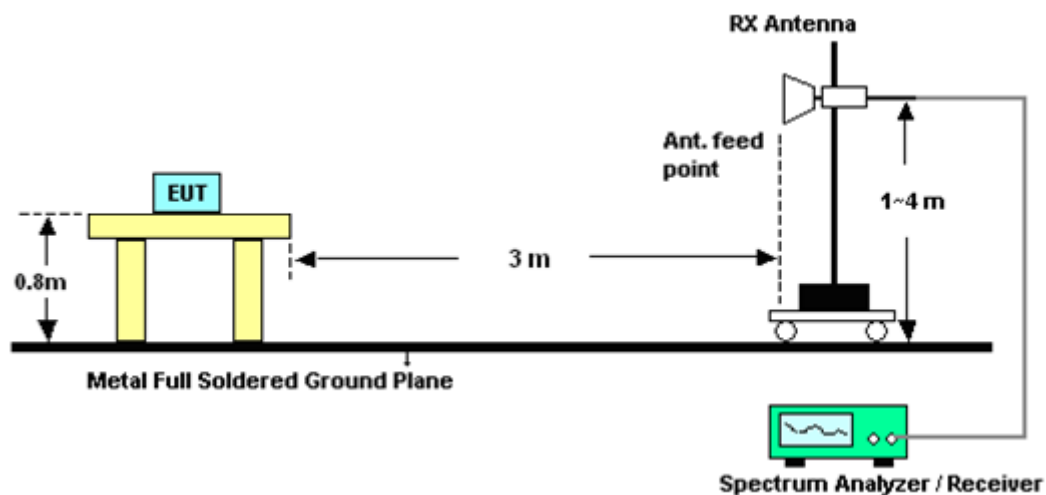
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.1.6 Test Result of Radiated Band Edges

<Ant. 1>

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.4	62.92	-11.08	74	53.06	34.42	8.65	33.21	100	144	Peak
5150	46.86	-7.14	54	37	34.42	8.65	33.21	100	144	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5144	56.08	-17.92	74	46.46	34.18	8.65	33.21	115	185	Peak
5150	43.28	-10.72	54	33.66	34.18	8.65	33.21	115	185	Average

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	53.08	-20.92	74	43.22	34.42	8.65	33.21	100	142	Peak
5150	42.36	-11.64	54	32.5	34.42	8.65	33.21	100	142	Average
5389.82	52.47	-21.53	74	42.3	34.55	8.81	33.19	100	142	Peak
5350	42.05	-11.95	54	31.9	34.54	8.8	33.19	100	142	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5148.8	52.32	-21.68	74	42.7	34.18	8.65	33.21	102	178	Peak
5149.25	41.42	-12.58	54	31.8	34.18	8.65	33.21	102	178	Average
5394.33	52.19	-21.81	74	42.2	34.37	8.81	33.19	102	178	Peak
5350	41.79	-12.21	54	31.88	34.3	8.8	33.19	102	178	Average



Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5142.35	51.95	-22.05	74	42.09	34.42	8.65	33.21	109	143	Peak
5149.55	41.78	-12.22	54	31.92	34.42	8.65	33.21	109	143	Average
5351.76	53.28	-20.72	74	43.13	34.54	8.8	33.19	109	143	Peak
5350	42.61	-11.39	54	32.46	34.54	8.8	33.19	109	143	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.4	51.4	-22.6	74	41.78	34.18	8.65	33.21	100	180	Peak
5140.1	41.37	-12.63	54	31.75	34.18	8.65	33.21	100	180	Average
5361.44	52.76	-21.24	74	42.82	34.33	8.8	33.19	100	180	Peak
5350	41.94	-12.06	54	32.03	34.3	8.8	33.19	100	180	Average

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.65	65.49	-8.51	74	55.34	34.54	8.8	33.19	135	146	Peak
5350	48.19	-5.81	54	38.04	34.54	8.8	33.19	135	146	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.43	63.65	-10.35	74	53.74	34.3	8.8	33.19	100	181	Peak
5350	46.33	-7.67	54	36.42	34.3	8.8	33.19	100	181	Average



Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5469.36	61.22	-12.78	74	51.01	34.59	8.81	33.19	138	319	Peak
5470	46.05	-7.95	54	35.84	34.59	8.81	33.19	138	319	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5466.48	57.71	-16.29	74	47.56	34.53	8.81	33.19	100	153	Peak
5470	44.33	-9.67	54	34.18	34.53	8.81	33.19	100	153	Average

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5730.44	61.4	-12.6	74	50.81	34.69	9.07	33.17	113	138	Peak
5725	47.36	-6.64	54	36.77	34.69	9.07	33.17	113	138	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5728.92	63.46	-10.54	74	52.87	34.69	9.07	33.17	100	207	Peak
5725	47.91	-6.09	54	37.32	34.69	9.07	33.17	100	207	Average



Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.08	63.44	-10.56	74	52.85	34.69	9.07	33.17	125	230	Peak
5725	48.64	-5.36	54	38.05	34.69	9.07	33.17	125	230	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5728.6	60.16	-13.84	74	49.57	34.69	9.07	33.17	100	147	Peak
5725	47.28	-6.72	54	36.69	34.69	9.07	33.17	100	147	Average

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	65.7	-8.3	74	55.84	34.42	8.65	33.21	138	234	Peak
5150	50.44	-3.56	54	40.58	34.42	8.65	33.21	138	234	Average
5358.58	52.54	-21.46	74	42.39	34.54	8.8	33.19	138	234	Peak
5372.66	42.59	-11.41	54	32.43	34.55	8.8	33.19	138	234	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	57.37	-16.63	74	47.75	34.18	8.65	33.21	114	304	Peak
5148.8	44.53	-9.47	54	34.91	34.18	8.65	33.21	114	304	Average
5459.45	52.53	-21.47	74	42.41	34.5	8.81	33.19	114	304	Peak
5447.02	42.34	-11.66	54	32.22	34.5	8.81	33.19	114	304	Average



<Ant. 2>

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.54	60.54	-13.46	74	50.39	34.54	8.8	33.19	109	72	Peak
5350	44.96	-9.04	54	34.81	34.54	8.8	33.19	109	72	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.77	56.71	-17.29	74	46.8	34.3	8.8	33.19	100	335	Peak
5350	43.38	-10.62	54	33.47	34.3	8.8	33.19	100	335	Average

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.24	61.3	-12.7	74	50.71	34.69	9.07	33.17	101	66	Peak
5725	47.64	-6.36	54	37.05	34.69	9.07	33.17	101	66	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	58.02	-15.98	74	47.43	34.69	9.07	33.17	100	303	Peak
5725	44.53	-9.47	54	33.94	34.69	9.07	33.17	100	303	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.55	57.9	-16.1	74	48.04	34.42	8.65	33.21	100	66	Peak
5150	46.41	-7.59	54	36.55	34.42	8.65	33.21	100	66	Average
5388.61	52.76	-21.24	74	42.59	34.55	8.81	33.19	100	66	Peak
5417.54	42.5	-11.5	54	32.31	34.57	8.81	33.19	100	66	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.7	58.01	-15.99	74	48.39	34.18	8.65	33.21	100	300	Peak
5150	44.51	-9.49	54	34.89	34.18	8.65	33.21	100	300	Average
5361.77	52.04	-21.96	74	42.1	34.33	8.8	33.19	100	300	Peak
5428.21	42.36	-11.64	54	32.31	34.43	8.81	33.19	100	300	Average



MIMO <Ant. 1+2>

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.55	58.33	-15.67	74	48.47	34.42	8.65	33.21	100	62	Peak
5150	44.75	-9.25	54	34.89	34.42	8.65	33.21	100	62	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5147.15	58.31	-15.69	74	48.69	34.18	8.65	33.21	103	45	Peak
5150	44.12	-9.88	54	34.5	34.18	8.65	33.21	103	45	Average

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5132.9	53.29	-20.71	74	43.49	34.41	8.6	33.21	100	322	Peak
5150	42.27	-11.73	54	32.41	34.42	8.65	33.21	100	322	Average
5389.71	52.39	-21.61	74	42.22	34.55	8.81	33.19	100	322	Peak
5354.95	42.11	-11.89	54	31.96	34.54	8.8	33.19	100	322	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5138	51.92	-22.08	74	42.34	34.19	8.6	33.21	100	44	Peak
5150	41.73	-12.27	54	32.11	34.18	8.65	33.21	100	44	Average
5350.99	52.81	-21.19	74	42.9	34.3	8.8	33.19	100	44	Peak
5355.06	42.02	-11.98	54	32.11	34.3	8.8	33.19	100	44	Average



Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5030.15	52.21	-21.79	74	42.72	34.33	8.38	33.22	100	322	Peak
5149.55	42.13	-11.87	54	32.27	34.42	8.65	33.21	100	322	Average
5353.08	52.43	-21.57	74	42.28	34.54	8.8	33.19	100	322	Peak
5350	42.32	-11.68	54	32.17	34.54	8.8	33.19	100	322	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5062.85	52.45	-21.55	74	42.98	34.25	8.44	33.22	111	0	Peak
5149.85	41.61	-12.39	54	31.99	34.18	8.65	33.21	111	0	Average
5385.31	53	-21	74	43.01	34.37	8.81	33.19	111	0	Peak
5357.04	42.18	-11.82	54	32.27	34.3	8.8	33.19	111	0	Average

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5356.71	62.02	-11.98	74	51.87	34.54	8.8	33.19	106	62	Peak
5350	43.96	-10.04	54	33.81	34.54	8.8	33.19	106	62	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.87	58.88	-15.12	74	48.97	34.3	8.8	33.19	100	21	Peak
5350	44.78	-9.22	54	34.87	34.3	8.8	33.19	100	21	Average



Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5464.56	59.04	-14.96	74	48.83	34.59	8.81	33.19	101	68	Peak
5470	44.66	-9.34	54	34.45	34.59	8.81	33.19	101	68	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5467.6	57.67	-16.33	74	47.52	34.53	8.81	33.19	116	359	Peak
5470	45.43	-8.57	54	35.28	34.53	8.81	33.19	116	359	Average

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.88	60.13	-13.87	74	49.54	34.69	9.07	33.17	100	321	Peak
5725	45.74	-8.26	54	35.15	34.69	9.07	33.17	100	321	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5735.72	61.49	-12.51	74	50.89	34.7	9.07	33.17	100	50	Peak
5725	46.43	-7.57	54	35.84	34.69	9.07	33.17	100	50	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5144.75	65.12	-8.88	74	55.26	34.42	8.65	33.21	110	63	Peak
5150	52.06	-1.94	54	42.2	34.42	8.65	33.21	110	63	Average
5454.83	52.43	-21.57	74	42.23	34.58	8.81	33.19	110	63	Peak
5372.99	42.5	-11.5	54	32.34	34.55	8.8	33.19	110	63	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5148.65	63.62	-10.38	74	54	34.18	8.65	33.21	100	50	Peak
5150	49.52	-4.48	54	39.9	34.18	8.65	33.21	100	50	Average
5372.55	52.99	-21.01	74	43.05	34.33	8.8	33.19	100	50	Peak
5356.93	42.53	-11.47	54	32.62	34.3	8.8	33.19	100	50	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	46	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5146.1	53.16	-20.84	74	43.3	34.42	8.65	33.21	100	323	Peak
5148.65	43.63	-10.37	54	33.77	34.42	8.65	33.21	100	323	Average
5381.13	52.56	-21.44	74	42.39	34.55	8.81	33.19	100	323	Peak
5359.46	42.58	-11.42	54	32.43	34.54	8.8	33.19	100	323	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5147.45	52.65	-21.35	74	43.03	34.18	8.65	33.21	101	28	Peak
5149.55	42.86	-11.14	54	33.24	34.18	8.65	33.21	101	28	Average
5371.89	52.34	-21.66	74	42.4	34.33	8.8	33.19	101	28	Peak
5354.73	42.4	-11.6	54	32.49	34.3	8.8	33.19	101	28	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	54	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5089.55	52.13	-21.87	74	42.48	34.38	8.49	33.22	108	59	Peak
5132.9	42.36	-11.64	54	32.56	34.41	8.6	33.21	108	59	Average
5356.82	53.24	-20.76	74	43.09	34.54	8.8	33.19	108	59	Peak
5351.32	43.11	-10.89	54	32.96	34.54	8.8	33.19	108	59	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5012.75	51.66	-22.34	74	42.26	34.29	8.33	33.22	101	28	Peak
5149.55	42.1	-11.9	54	32.48	34.18	8.65	33.21	101	28	Average
5350.77	53.64	-20.36	74	43.73	34.3	8.8	33.19	101	28	Peak
5350.99	43.09	-10.91	54	33.18	34.3	8.8	33.19	101	28	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	62	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5074.25	52.22	-21.78	74	42.58	34.37	8.49	33.22	141	325	Peak
5147.45	42.25	-11.75	54	32.39	34.42	8.65	33.21	141	325	Average
5354.07	58.41	-15.59	74	48.26	34.54	8.8	33.19	141	325	Peak
5350.22	46.96	-7.04	54	36.81	34.54	8.8	33.19	141	325	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5085.65	51.94	-22.06	74	42.44	34.23	8.49	33.22	100	26	Peak
5132.6	42.02	-11.98	54	32.44	34.19	8.6	33.21	100	26	Average
5351.98	61.72	-12.28	74	51.81	34.3	8.8	33.19	100	26	Peak
5350	48.79	-5.21	54	38.88	34.3	8.8	33.19	100	26	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	102	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5468.4	63.63	-10.37	74	53.42	34.59	8.81	33.19	101	63	Peak
5469.68	50.91	-3.09	54	40.7	34.59	8.81	33.19	101	63	Average
5730.6	53.09	-20.91	74	42.5	34.69	9.07	33.17	101	63	Peak
5762.68	42.95	-11.05	54	32.28	34.73	9.1	33.16	101	63	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5467.44	59.62	-14.38	74	49.47	34.53	8.81	33.19	140	89	Peak
5469.84	48.66	-5.34	54	38.51	34.53	8.81	33.19	140	89	Average
5764.36	53.22	-20.78	74	42.54	34.71	9.13	33.16	140	89	Peak
5755.96	43.01	-10.99	54	32.36	34.71	9.1	33.16	140	89	Average



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	134	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang		

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5415.92	52.5	-21.5	74	42.31	34.57	8.81	33.19	100	322	Peak
5401.52	42.59	-11.41	54	32.41	34.56	8.81	33.19	100	322	Average
5730.36	55.49	-18.51	74	44.9	34.69	9.07	33.17	100	322	Peak
5727.24	45.03	-8.97	54	34.44	34.69	9.07	33.17	100	322	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5353.36	52.95	-21.05	74	43.04	34.3	8.8	33.19	102	36	Peak
5464.08	42.37	-11.63	54	32.22	34.53	8.81	33.19	102	36	Average
5728.92	54.67	-19.33	74	44.08	34.69	9.07	33.17	102	36	Peak
5725	45.19	-8.81	54	34.6	34.69	9.07	33.17	102	36	Average

3.1.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

<Ant. 1>

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5178 MHz is fundamental signal which can be ignored.. 2. 10359 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5178	94.69	-	-	84.73	34.45	8.71	33.2	100	144	Average
5178	106.12	-	-	96.16	34.45	8.71	33.2	100	144	Peak
10359	41.12	-32.88	74	48.88	37.69	12	57.45	100	0	Peak
15540	46.51	-27.49	74	47.62	40.33	17.13	58.57	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5178 MHz is fundamental signal which can be ignored.. 2. 10359 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5178	88.74	-	-	79.08	34.15	8.71	33.2	115	185	Average
5178	99.7	-	-	90.04	34.15	8.71	33.2	115	185	Peak
10359	40.95	-33.05	74	49.25	37.15	12	57.45	100	0	Peak
15540	45.48	-28.52	74	47.42	39.5	17.13	58.57	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	44	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5218 MHz is fundamental signal which can be ignored.. 2. 10440 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5218	93.24	-	-	83.2	34.47	8.77	33.2	100	144	Average
5218	104.51	-	-	94.47	34.47	8.77	33.2	100	144	Peak
10440	42.05	-31.95	74	49.69	37.75	12.04	57.43	100	0	Peak
15660	47.23	-26.77	74	47.85	40.8	17.06	58.48	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	44	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5222 MHz is fundamental signal which can be ignored.. 2. 10440 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5222	87.49	-	-	77.79	34.13	8.77	33.2	100	206	Average
5222	98.75	-	-	89.05	34.13	8.77	33.2	100	206	Peak
10440	40.67	-33.33	74	48.93	37.13	12.04	57.43	100	0	Peak
15660	45.02	-28.98	74	46.94	39.5	17.06	58.48	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5242 MHz is fundamental signal which can be ignored.. 2. 10479 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	93.85	-	-	83.78	34.5	8.77	33.2	100	142	Average
5242	104.72	-	-	94.65	34.5	8.77	33.2	100	142	Peak
10479	42.04	-31.96	74	49.59	37.79	12.07	57.41	100	0	Peak
15720	46.46	-27.54	74	46.78	41.07	17.03	58.42	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5242 MHz is fundamental signal which can be ignored.. 2. 10479 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	88.1	-	-	78.43	34.1	8.77	33.2	102	178	Average
5242	99.69	-	-	90.02	34.1	8.77	33.2	102	178	Peak
10479	40.96	-33.04	74	49.19	37.11	12.07	57.41	100	0	Peak
15720	44.86	-29.14	74	46.75	39.5	17.03	58.42	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5260 MHz is fundamental signal which can be ignored.. 2. 10521 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5260	94.75	-	-	84.65	34.51	8.78	33.19	109	143	Average
5260	105.93	-	-	95.83	34.51	8.78	33.19	109	143	Peak
10521	41.13	-32.87	74	48.62	37.81	12.1	57.4	100	0	Peak
15780	46.29	-27.71	74	46.49	41.19	16.99	58.38	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5262 MHz is fundamental signal which can be ignored.. 2. 10521 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5262	89.3	-	-	79.58	34.13	8.78	33.19	100	180	Average
5262	100.35	-	-	90.63	34.13	8.78	33.19	100	180	Peak
10521	40.96	-33.04	74	49.15	37.11	12.1	57.4	100	0	Peak
15780	44.62	-29.38	74	46.47	39.54	16.99	58.38	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	60	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5302 MHz is fundamental signal which can be ignored.. 2. 10599 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	94.47	-	-	84.36	34.52	8.78	33.19	136	142	Average
5302	105.22	-	-	95.11	34.52	8.78	33.19	136	142	Peak
10599	41.98	-32.02	74	49.42	37.84	12.14	57.42	100	0	Peak
15900	45.46	-28.54	74	45.73	41.09	16.92	58.28	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	60	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5298 MHz is fundamental signal which can be ignored.. 2. 10599 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5298	90.63	-	-	80.84	34.2	8.78	33.19	100	178	Average
5298	101.69	-	-	91.9	34.2	8.78	33.19	100	178	Peak
10599	41.49	-32.51	74	49.59	37.18	12.14	57.42	100	0	Peak
15900	44.14	-29.86	74	45.66	39.84	16.92	58.28	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5318 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
91.02	27.16	-16.34	43.5	48.77	9.13	1.11	31.85	100	157	Peak
136.65	22.72	-20.78	43.5	41.98	11.19	1.37	31.82	-	-	Peak
268.41	25.91	-20.09	46	43.17	12.54	1.91	31.71	-	-	Peak
359.5	24.84	-21.16	46	39.69	14.67	2.19	31.71	-	-	Peak
720	27.44	-18.56	46	35.99	19.32	3.09	30.96	-	-	Peak
800.5	27.94	-18.06	46	35.69	19.95	3.26	30.96	-	-	Peak
5318	95.38	-	-	85.25	34.53	8.79	33.19	135	146	Average
5318	107.07	-	-	96.94	34.53	8.79	33.19	135	146	Peak
10641	41.68	-32.32	74	49.1	37.85	12.16	57.43	100	0	Peak
15960	45.13	-28.87	74	45.44	41.03	16.89	58.23	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5318 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
41.61	30.38	-9.62	40	50.52	11.1	0.76	32	100	211	Peak
149.07	32.27	-11.23	43.5	51.31	11.33	1.43	31.8	-	-	Peak
240.06	23.21	-22.79	46	42.22	10.93	1.8	31.74	-	-	Peak
336.4	24	-22	46	39.41	14.21	2.12	31.74	-	-	Peak
447.7	29.02	-16.98	46	41.92	15.93	2.44	31.27	-	-	Peak
673.1	22.7	-23.3	46	31.83	18.87	2.99	30.99	-	-	Peak
5318	92.3	-	-	82.47	34.23	8.79	33.19	100	181	Average
5318	103.88	-	-	94.05	34.23	8.79	33.19	100	181	Peak
10641	41.54	-32.46	74	49.6	37.21	12.16	57.43	100	0	Peak
15960	44.87	-29.13	74	46.2	40.01	16.89	58.23	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5498 MHz is fundamental signal which can be ignored.. 2. 16500 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5498	93.55	-	-	83.33	34.6	8.81	33.19	138	319	Average
5498	105.18	-	-	94.96	34.6	8.81	33.19	138	319	Peak
11001	41.68	-32.32	74	48.85	38	12.33	57.5	100	0	Peak
16500	45.95	-28.05	74	44.43	41.7	17.12	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5498 MHz is fundamental signal which can be ignored.. 2. 16500 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5498	89.51	-	-	79.29	34.6	8.81	33.19	100	153	Average
5498	100.72	-	-	90.5	34.6	8.81	33.19	100	153	Peak
11001	41.04	-32.96	74	48.81	37.4	12.33	57.5	100	0	Peak
16500	44.35	-29.65	74	44.03	40.5	17.12	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	116	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5582 MHz is fundamental signal which can be ignored.. 2. 16740 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	93.49	-	-	83.15	34.64	8.9	33.2	129	139	Average
5582	104.13	-	-	93.79	34.64	8.9	33.2	129	139	Peak
11160	42.02	-31.98	74	48.67	38.27	12.51	57.43	100	0	Peak
16740	46.61	-27.39	74	44.87	42.3	16.74	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	116	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5582 MHz is fundamental signal which can be ignored.. 2. 16740 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	91.29	-	-	80.95	34.64	8.9	33.2	102	203	Average
5582	102.09	-	-	91.75	34.64	8.9	33.2	102	203	Peak
11160	41.08	-32.92	74	48.53	37.47	12.51	57.43	100	0	Peak
16740	46.74	-27.26	74	46	41.3	16.74	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5702 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5702	91.76	-	-	81.19	34.69	9.05	33.17	113	138	Average
5702	102.74	-	-	92.17	34.69	9.05	33.17	113	138	Peak
11400	42.56	-31.44	74	48.58	38.52	12.8	57.34	100	0	Peak
17100	45.68	-28.32	74	44.24	42.64	16.36	57.56	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5698 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5698	91.43	-	-	80.87	34.68	9.05	33.17	100	207	Average
5698	101.84	-	-	91.28	34.68	9.05	33.17	100	207	Peak
11400	41.96	-32.04	74	48.82	37.68	12.8	57.34	100	0	Peak
17100	44.94	-29.06	74	45.1	41.04	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5698 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
128.82	24.96	-18.54	43.5	43.82	11.68	1.32	31.86	-	-	Peak
149.34	22.47	-21.03	43.5	42.87	9.96	1.44	31.8	-	-	Peak
268.41	28.34	-17.66	46	45.6	12.54	1.91	31.71	100	25	Peak
720	27.22	-18.78	46	35.77	19.32	3.09	30.96	-	-	Peak
797	27.25	-18.75	46	35.04	19.92	3.25	30.96	-	-	Peak
919.5	26.77	-19.23	46	33.13	20.7	3.52	30.58	-	-	Peak
5698	91.12	-	-	80.56	34.68	9.05	33.17	125	230	Average
5698	102.06	-	-	91.5	34.68	9.05	33.17	125	230	Peak
11400	42.73	-31.27	74	48.75	38.52	12.8	57.34	100	0	Peak
17100	45.69	-28.31	74	44.25	42.64	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5702 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
79.68	20.07	-19.93	40	43.94	7.05	1.04	31.96	-	-	Peak
147.99	32.04	-11.46	43.5	51.08	11.33	1.43	31.8	100	117	Peak
240.06	21.51	-24.49	46	40.52	10.93	1.8	31.74	-	-	Peak
479.9	26.26	-19.74	46	38.12	16.82	2.52	31.2	-	-	Peak
542.9	23.77	-22.23	46	34.43	17.91	2.7	31.27	-	-	Peak
673.1	22.8	-23.2	46	31.93	18.87	2.99	30.99	-	-	Peak
5702	89.07	-	-	78.5	34.69	9.05	33.17	100	147	Average
5702	99.81	-	-	89.24	34.69	9.05	33.17	100	147	Peak
11400	41.48	-32.52	74	48.34	37.68	12.8	57.34	100	0	Peak
17100	45.21	-28.79	74	45.37	41.04	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5192 MHz is fundamental signal which can be ignored.. 2. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
153.39	25.16	-18.34	43.5	45.76	9.74	1.46	31.8	-	-	Peak
240.06	27.46	-18.54	46	46.51	10.89	1.8	31.74	-	-	Peak
268.41	28.83	-17.17	46	46.09	12.54	1.91	31.71	-	-	Peak
359.5	27.97	-18.03	46	42.82	14.67	2.19	31.71	-	-	Peak
458.2	28.89	-17.11	46	41.33	16.33	2.47	31.24	100	12	Peak
760.6	26.45	-19.55	46	34.42	19.76	3.17	30.9	-	-	Peak
5192	89.84	-	-	79.82	34.46	8.76	33.2	138	234	Average
5192	100.13	-	-	90.11	34.46	8.76	33.2	138	234	Peak
10380	42.48	-31.52	74	50.21	37.71	12.01	57.45	100	0	Peak
15570	45.78	-28.22	74	46.73	40.47	17.12	58.54	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5188 MHz is fundamental signal which can be ignored.. 2. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
154.2	29.83	-13.67	43.5	49.24	10.93	1.46	31.8	100	159	Peak
201.45	21.41	-22.09	43.5	42.21	9.25	1.65	31.7	-	-	Peak
240.06	27.73	-18.27	46	46.74	10.93	1.8	31.74	-	-	Peak
456.1	27.81	-18.19	46	40.56	16.03	2.47	31.25	-	-	Peak
600.3	26.08	-19.92	46	35.52	18.91	2.83	31.18	-	-	Peak
800.5	26.83	-19.17	46	34.6	19.93	3.26	30.96	-	-	Peak
5188	81.81	-	-	72.15	34.15	8.71	33.2	114	304	Average
5188	91.3	-	-	81.64	34.15	8.71	33.2	114	304	Peak
10380	41.26	-32.74	74	49.55	37.15	12.01	57.45	100	0	Peak
15570	45.48	-28.52	74	47.4	39.5	17.12	58.54	100	0	Peak

<Ant. 2>

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5318 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
154.47	26.37	-17.13	43.5	46.97	9.74	1.46	31.8	-	-	Peak
240.06	25.66	-20.34	46	44.71	10.89	1.8	31.74	-	-	Peak
268.41	30.72	-15.28	46	47.98	12.54	1.91	31.71	100	125	Peak
335.7	26.41	-19.59	46	42.14	13.89	2.12	31.74	-	-	Peak
451.9	30.4	-15.6	46	42.96	16.24	2.46	31.26	-	-	Peak
800.5	24.51	-21.49	46	32.26	19.95	3.26	30.96	-	-	Peak
5318	92.4	-	-	82.27	34.53	8.79	33.19	109	72	Average
5318	104.02	-	-	93.89	34.53	8.79	33.19	109	72	Peak
10641	40.86	-33.14	74	48.28	37.85	12.16	57.43	100	0	Peak
15960	46.26	-27.74	74	46.57	41.03	16.89	58.23	100	0	Peak

Test Mode :	802.11a	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5318 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
86.7	25.97	-14.03	40	48.16	8.56	1.09	31.84	100	188	Peak
153.66	28.41	-15.09	43.5	47.82	10.93	1.46	31.8	-	-	Peak
200.91	19.45	-24.05	43.5	40.26	9.25	1.64	31.7	-	-	Peak
456.1	27.15	-18.85	46	39.9	16.03	2.47	31.25	-	-	Peak
600.3	26.11	-19.89	46	35.55	18.91	2.83	31.18	-	-	Peak
800.5	25.26	-20.74	46	33.03	19.93	3.26	30.96	-	-	Peak
5318	88.33	-	-	78.5	34.23	8.79	33.19	100	335	Average
5318	99.42	-	-	89.59	34.23	8.79	33.19	100	335	Peak
10641	41.66	-32.34	74	49.72	37.21	12.16	57.43	100	0	Peak
15960	44.69	-29.31	74	46.02	40.01	16.89	58.23	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5698 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
153.12	26.08	-17.42	43.5	46.58	9.85	1.45	31.8	-	-	Peak
200.91	23.15	-20.35	43.5	44.38	8.83	1.64	31.7	-	-	Peak
240.33	25.33	-20.67	46	44.38	10.89	1.8	31.74	-	-	Peak
329.4	31.79	-14.21	46	47.63	13.78	2.1	31.72	100	33	Peak
450.5	30.64	-15.36	46	43.24	16.21	2.45	31.26	-	-	Peak
800.5	27.72	-18.28	46	35.47	19.95	3.26	30.96	-	-	Peak
5698	91.58	-	-	81.02	34.68	9.05	33.17	101	66	Average
5698	102.44	-	-	91.88	34.68	9.05	33.17	101	66	Peak
11400	42.52	-31.48	74	48.54	38.52	12.8	57.34	100	0	Peak
17100	45.54	-28.46	74	44.1	42.64	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5698 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
153.66	28.55	-14.95	43.5	47.96	10.93	1.46	31.8	100	139	Peak
201.72	24.81	-18.69	43.5	45.61	9.25	1.65	31.7	-	-	Peak
240.06	26.56	-19.44	46	45.57	10.93	1.8	31.74	-	-	Peak
444.2	26.62	-19.38	46	39.58	15.9	2.43	31.29	-	-	Peak
600.3	26.2	-19.8	46	35.64	18.91	2.83	31.18	-	-	Peak
759.9	25.49	-20.51	46	33.5	19.72	3.17	30.9	-	-	Peak
5698	86.44	-	-	75.88	34.68	9.05	33.17	100	303	Average
5698	97.8	-	-	87.24	34.68	9.05	33.17	100	303	Peak
11400	42.1	-31.9	74	48.96	37.68	12.8	57.34	100	0	Peak
17100	43.77	-30.23	74	43.93	41.04	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5192 MHz is fundamental signal which can be ignored.. 2. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
143.94	26.08	-17.42	43.5	46.02	10.47	1.4	31.81	-	-	Peak
152.85	25.98	-17.52	43.5	46.48	9.85	1.45	31.8	-	-	Peak
268.68	29.92	-16.08	46	47.18	12.54	1.91	31.71	-	-	Peak
379.8	34.27	-11.73	46	48.53	15.09	2.25	31.6	100	17	Peak
453.3	29.9	-16.1	46	42.42	16.27	2.46	31.25	-	-	Peak
800.5	27.25	-18.75	46	35	19.95	3.26	30.96	-	-	Peak
5192	87.21	-	-	77.19	34.46	8.76	33.2	100	66	Average
5192	97.21	-	-	87.19	34.46	8.76	33.2	100	66	Peak
10380	41.57	-32.43	74	49.3	37.71	12.01	57.45	100	0	Peak
15570	46.59	-27.41	74	47.54	40.47	17.12	58.54	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5188 MHz is fundamental signal which can be ignored.. 2. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
150.69	31.73	-11.77	43.5	50.85	11.24	1.44	31.8	100	158	Peak
193.08	30.83	-12.67	43.5	52.08	8.88	1.61	31.74	-	-	Peak
240.06	26.49	-19.51	46	45.5	10.93	1.8	31.74	-	-	Peak
379.8	33.82	-12.18	46	48.11	15.06	2.25	31.6	-	-	Peak
456.1	26.76	-19.24	46	39.51	16.03	2.47	31.25	-	-	Peak
600.3	25.95	-20.05	46	35.39	18.91	2.83	31.18	-	-	Peak
5188	84.31	-	-	74.65	34.15	8.71	33.2	100	300	Average
5188	93.78	-	-	84.12	34.15	8.71	33.2	100	300	Peak
10380	40.9	-33.1	74	49.19	37.15	12.01	57.45	100	0	Peak
15570	45.5	-28.5	74	47.42	39.5	17.12	58.54	100	0	Peak

MIMO<Ant. 1+2>

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5182 MHz is fundamental signal which can be ignored.. 2. 10359 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5182	90.97	-	-	81.01	34.45	8.71	33.2	100	62	Average
5182	102.81	-	-	92.85	34.45	8.71	33.2	100	62	Peak
10359	41.7	-32.3	74	49.46	37.69	12	57.45	100	0	Peak
15540	46.43	-27.57	74	47.54	40.33	17.13	58.57	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	36	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5178 MHz is fundamental signal which can be ignored.. 2. 10359 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5178	90.98	-	-	81.32	34.15	8.71	33.2	103	45	Average
5178	102.42	-	-	92.76	34.15	8.71	33.2	103	45	Peak
10359	41.06	-32.94	74	49.36	37.15	12	57.45	100	0	Peak
15540	44.68	-29.32	74	46.62	39.5	17.13	58.57	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	44	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5218 MHz is fundamental signal which can be ignored.. 2. 10440 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5218	91.54	-	-	81.5	34.47	8.77	33.2	100	323	Average
5218	104.08	-	-	94.04	34.47	8.77	33.2	100	323	Peak
10440	42.2	-31.8	74	49.84	37.75	12.04	57.43	100	0	Peak
15660	47.45	-26.55	74	48.07	40.8	17.06	58.48	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	44	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5218 MHz is fundamental signal which can be ignored.. 2. 10440 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5218	90.4	-	-	80.7	34.13	8.77	33.2	101	46	Average
5218	102.77	-	-	93.07	34.13	8.77	33.2	101	46	Peak
10440	41.14	-32.86	74	49.4	37.13	12.04	57.43	100	0	Peak
15660	44.49	-29.51	74	46.41	39.5	17.06	58.48	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5238 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5238	90.99	-	-	80.93	34.49	8.77	33.2	100	322	Average
5238	103.5	-	-	93.44	34.49	8.77	33.2	100	322	Peak
10479	42.28	-31.72	74	49.83	37.79	12.07	57.41	100	0	Peak
15720	46.62	-27.38	74	46.94	41.07	17.03	58.42	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	48	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5242 MHz is fundamental signal which can be ignored.. 2. 10479 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	90.54	-	-	80.87	34.1	8.77	33.2	100	44	Average
5242	102.4	-	-	92.73	34.1	8.77	33.2	100	44	Peak
10479	41.03	-32.97	74	49.26	37.11	12.07	57.41	100	0	Peak
15720	45.41	-28.59	74	47.3	39.5	17.03	58.42	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5258 MHz is fundamental signal which can be ignored.. 2. 10521 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5258	92.07	-	-	81.99	34.5	8.77	33.19	100	322	Average
5258	104.66	-	-	94.58	34.5	8.77	33.19	100	322	Peak
10521	41.23	-32.77	74	48.72	37.81	12.1	57.4	100	0	Peak
15780	46.67	-27.33	74	46.87	41.19	16.99	58.38	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	52	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5258 MHz is fundamental signal which can be ignored.. 2. 10521 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5258	90.83	-	-	81.15	34.1	8.77	33.19	111	0	Average
5258	102.08	-	-	92.4	34.1	8.77	33.19	111	0	Peak
10521	41.03	-32.97	74	49.22	37.11	12.1	57.4	100	0	Peak
15780	44.9	-29.1	74	46.75	39.54	16.99	58.38	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	60	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5302 MHz is fundamental signal which can be ignored.. 2. 10599 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	91.14	-	-	81.03	34.52	8.78	33.19	100	322	Average
5302	103.78	-	-	93.67	34.52	8.78	33.19	100	322	Peak
10599	41.79	-32.21	74	49.23	37.84	12.14	57.42	100	0	Peak
15900	45.43	-28.57	74	45.7	41.09	16.92	58.28	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	60	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5302 MHz is fundamental signal which can be ignored.. 2. 10599 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	92.96	-	-	83.17	34.2	8.78	33.19	100	17	Average
5302	104.18	-	-	94.39	34.2	8.78	33.19	100	17	Peak
10599	40.63	-33.37	74	48.73	37.18	12.14	57.42	100	0	Peak
15900	44.36	-29.64	74	45.88	39.84	16.92	58.28	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5322 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5322	88.75	-	-	78.62	34.53	8.79	33.19	106	62	Average
5322	102.97	-	-	92.75	34.6	8.81	33.19	106	62	Peak
10641	41.9	-32.1	74	49.32	37.85	12.16	57.43	100	0	Peak
15960	46.05	-27.95	74	46.36	41.03	16.89	58.23	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	64	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5322 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5322	90.06	-	-	80.23	34.23	8.79	33.19	100	21	Average
5322	103.67	-	-	93.84	34.23	8.79	33.19	100	21	Peak
10641	40.84	-33.16	74	48.9	37.21	12.16	57.43	100	0	Peak
15960	44.44	-29.56	74	45.77	40.01	16.89	58.23	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5502 MHz is fundamental signal which can be ignored.. 2. 16500 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5502	88.76	-	-	78.54	34.6	8.81	33.19	101	68	Average
5502	101.87	-	-	91.65	34.6	8.81	33.19	101	68	Peak
11001	41.16	-32.84	74	48.33	38	12.33	57.5	100	0	Peak
16500	45.8	-28.2	74	44.28	41.7	17.12	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	100	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5502 MHz is fundamental signal which can be ignored.. 2. 16500 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5502	90.81	-	-	80.59	34.6	8.81	33.19	116	359	Average
5502	103.77	-	-	93.55	34.6	8.81	33.19	116	359	Peak
11001	40.88	-33.12	74	48.65	37.4	12.33	57.5	100	0	Peak
16500	44.32	-29.68	74	44	40.5	17.12	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	116	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5578 MHz is fundamental signal which can be ignored.. 2. 16740 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5578	92.87	-	-	82.54	34.63	8.9	33.2	102	320	Average
5578	104.31	-	-	93.98	34.63	8.9	33.2	102	320	Peak
11160	42.26	-31.74	74	48.91	38.27	12.51	57.43	100	0	Peak
16740	46.65	-27.35	74	44.91	42.3	16.74	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	116	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5582 MHz is fundamental signal which can be ignored.. 2. 16740 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	88.92	-	-	78.58	34.64	8.9	33.2	116	224	Average
5582	100.33	-	-	89.99	34.64	8.9	33.2	116	224	Peak
11160	41	-33	74	48.45	37.47	12.51	57.43	100	0	Peak
16740	45.62	-28.38	74	44.88	41.3	16.74	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5702 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.86	30.85	-9.15	40	57.03	4.85	0.92	31.95	100	19	Peak
124.23	25.74	-17.76	43.5	44.62	11.7	1.3	31.88	-	-	Peak
268.41	28.59	-17.41	46	45.85	12.54	1.91	31.71	-	-	Peak
379.8	31.91	-14.09	46	46.17	15.09	2.25	31.6	-	-	Peak
451.2	29.17	-16.83	46	41.74	16.24	2.45	31.26	-	-	Peak
800.5	27.57	-18.43	46	35.32	19.95	3.26	30.96	-	-	Peak
5702	89	-	-	78.43	34.69	9.05	33.17	100	321	Average
5702	101.05	-	-	90.48	34.69	9.05	33.17	100	321	Peak
11400	42.85	-31.15	74	48.87	38.52	12.8	57.34	100	0	Peak
17100	45.79	-28.21	74	44.35	42.64	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	22~24°C
Test Channel :	140	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5698 MHz is fundamental signal which can be ignored.. 2. 17100 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
120.45	20.96	-22.54	43.5	40.9	10.68	1.28	31.9	-	-	Peak
154.2	28.22	-15.28	43.5	47.63	10.93	1.46	31.8	100	151	Peak
200.37	21.1	-22.4	43.5	41.96	9.2	1.64	31.7	-	-	Peak
456.1	27.39	-18.61	46	40.14	16.03	2.47	31.25	-	-	Peak
552	25.3	-20.7	46	35.75	18.1	2.73	31.28	-	-	Peak
600.3	27.12	-18.88	46	36.56	18.91	2.83	31.18	-	-	Peak
5698	89.7	-	-	79.14	34.68	9.05	33.17	100	50	Average
5698	101.71	-	-	91.15	34.68	9.05	33.17	100	50	Peak
11400	42.3	-31.7	74	49.16	37.68	12.8	57.34	100	0	Peak
17100	44.48	-29.52	74	44.64	41.04	16.36	57.56	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5188 MHz is fundamental signal which can be ignored.. 2. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
151.77	26.56	-16.94	43.5	47.06	9.85	1.45	31.8	-	-	Peak
240.06	26.9	-19.1	46	45.95	10.89	1.8	31.74	-	-	Peak
268.68	29.26	-16.74	46	46.52	12.54	1.91	31.71	-	-	Peak
359.5	27.3	-18.7	46	42.15	14.67	2.19	31.71	-	-	Peak
451.9	29.68	-16.32	46	42.24	16.24	2.46	31.26	100	63	Peak
797	26.19	-19.81	46	33.98	19.92	3.25	30.96	-	-	Peak
5188	91.03	-	-	81.07	34.45	8.71	33.2	110	63	Average
5188	101.33	-	-	91.37	34.45	8.71	33.2	110	63	Peak
10380	42	-32	74	49.73	37.71	12.01	57.45	100	0	Peak
15570	46.31	-27.69	74	47.26	40.47	17.12	58.54	100	0	Peak



Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	38	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	5192 MHz is fundamental signal which can be ignored.. 10380 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. - Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
153.93	28.64	-14.86	43.5	48.05	10.93	1.46	31.8	100	132	Peak
201.99	24.18	-19.32	43.5	44.98	9.25	1.65	31.7	-	-	Peak
240.06	25.05	-20.95	46	44.06	10.93	1.8	31.74	-	-	Peak
456.1	27.23	-18.77	46	39.98	16.03	2.47	31.25	-	-	Peak
600.3	26.14	-19.86	46	35.58	18.91	2.83	31.18	-	-	Peak
799.8	25.39	-20.61	46	33.16	19.93	3.26	30.96	-	-	Peak
5192	89.89	-	-	80.19	34.14	8.76	33.2	100	50	Average
5192	99.69	-	-	89.99	34.14	8.76	33.2	100	50	Peak
10380	42.14	-31.86	74	50.43	37.15	12.01	57.45	100	0	Peak
15570	46.12	-27.88	74	48.04	39.5	17.12	58.54	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	46	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5228 MHz is fundamental signal which can be ignored.. 2. 10461 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5228	91.21	-	-	81.15	34.49	8.77	33.2	100	323	Average
5228	102.38	-	-	92.32	34.49	8.77	33.2	100	323	Peak
10461	42.2	-31.8	74	49.78	37.77	12.06	57.41	100	0	Peak
15690	47.65	-26.35	74	48.12	40.93	17.05	58.45	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	46	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5228 MHz is fundamental signal which can be ignored.. 2. 10461 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5228	90.99	-	-	81.31	34.11	8.77	33.2	101	28	Average
5228	101.13	-	-	91.45	34.11	8.77	33.2	101	28	Peak
10461	42.61	-31.39	74	50.85	37.11	12.06	57.41	100	0	Peak
15690	45.35	-28.65	74	47.25	39.5	17.05	58.45	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	54	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5268 MHz is fundamental signal which can be ignored.. 2. 10539 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5268	91.34	-	-	81.24	34.51	8.78	33.19	108	59	Average
5268	101.26	-	-	91.16	34.51	8.78	33.19	108	59	Peak
10539	42.84	-31.16	74	50.34	37.81	12.1	57.41	100	0	Peak
15810	47.25	-26.75	74	47.47	41.16	16.97	58.35	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	54	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5272 MHz is fundamental signal which can be ignored.. 2. 10539 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5272	91.09	-	-	81.37	34.13	8.78	33.19	101	28	Average
5272	101.55	-	-	91.83	34.13	8.78	33.19	101	28	Peak
10539	41.89	-32.11	74	50.07	37.13	12.1	57.41	100	0	Peak
15810	45.67	-28.33	74	47.42	39.63	16.97	58.35	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	62	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5308 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5308	88.73	-	-	78.61	34.52	8.79	33.19	141	325	Average
5308	98.34	-	-	88.22	34.52	8.79	33.19	141	325	Peak
10620	41.54	-32.46	74	48.96	37.85	12.15	57.42	100	0	Peak
15930	45.82	-28.18	74	46.12	41.06	16.9	58.26	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	62	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5308 MHz is fundamental signal which can be ignored.. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5308	90.49	-	-	80.69	34.2	8.79	33.19	100	26	Average
5308	100.89	-	-	91.09	34.2	8.79	33.19	100	26	Peak
10620	41.21	-32.79	74	49.29	37.19	12.15	57.42	100	0	Peak
15930	44.2	-29.8	74	45.63	39.93	16.9	58.26	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	102	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5508 MHz is fundamental signal which can be ignored.. 2. 16530 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5508	90.42	-	-	80.2	34.6	8.81	33.19	101	63	Average
5508	101.69	-	-	91.47	34.6	8.81	33.19	101	63	Peak
11019	41.5	-32.5	74	48.63	38.03	12.33	57.49	100	0	Peak
16530	45.91	-28.09	74	44.34	41.79	17.08	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	102	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5512 MHz is fundamental signal which can be ignored.. 2. 16530 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5512	85.34	-	-	75.12	34.6	8.81	33.19	140	89	Average
5512	95.09	-	-	84.87	34.6	8.81	33.19	140	89	Peak
11019	40.93	-33.07	74	48.68	37.41	12.33	57.49	100	0	Peak
16530	44.85	-29.15	74	44.46	40.61	17.08	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	110	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5548 MHz is fundamental signal which can be ignored.. 2. 16650 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5548	91.78	-	-	81.48	34.62	8.87	33.19	102	321	Average
5548	102.07	-	-	91.77	34.62	8.87	33.19	102	321	Peak
11100	43.09	-30.91	74	49.94	38.16	12.45	57.46	100	0	Peak
16650	47.27	-26.73	74	45.59	42.09	16.89	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	110	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5548 MHz is fundamental signal which can be ignored.. 2. 16650 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5548	87.27	-	-	76.97	34.62	8.87	33.19	129	222	Average
5548	96.63	-	-	86.33	34.62	8.87	33.19	129	222	Peak
11100	42.74	-31.26	74	50.31	37.44	12.45	57.46	100	0	Peak
16650	45.58	-28.42	74	44.98	41.01	16.89	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	134	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Horizontal
Remark :	1. 5668 MHz is fundamental signal which can be ignored.. 2. 17010 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5668	90.84	-	-	80.36	34.67	8.99	33.18	100	322	Average
5668	101.44	-	-	90.96	34.67	8.99	33.18	100	322	Peak
11340	43.11	-30.89	74	49.27	38.47	12.74	57.37	100	0	Peak
17010	46.38	-27.62	74	44.96	42.44	16.32	57.34	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	22~24°C
Test Channel :	134	Relative Humidity :	50~52%
Test Engineer :	Kyle Jhuang	Polarization :	Vertical
Remark :	1. 5672 MHz is fundamental signal which can be ignored.. 2. 17010 MHz is not within a restricted band, and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5672	90.53	-	-	80.02	34.67	9.02	33.18	102	36	Average
5672	100.16	-	-	89.65	34.67	9.02	33.18	102	36	Peak
11340	42.52	-31.48	74	49.55	37.6	12.74	57.37	100	0	Peak
17010	45.38	-28.62	74	45.23	41.17	16.32	57.34	100	0	Peak

3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

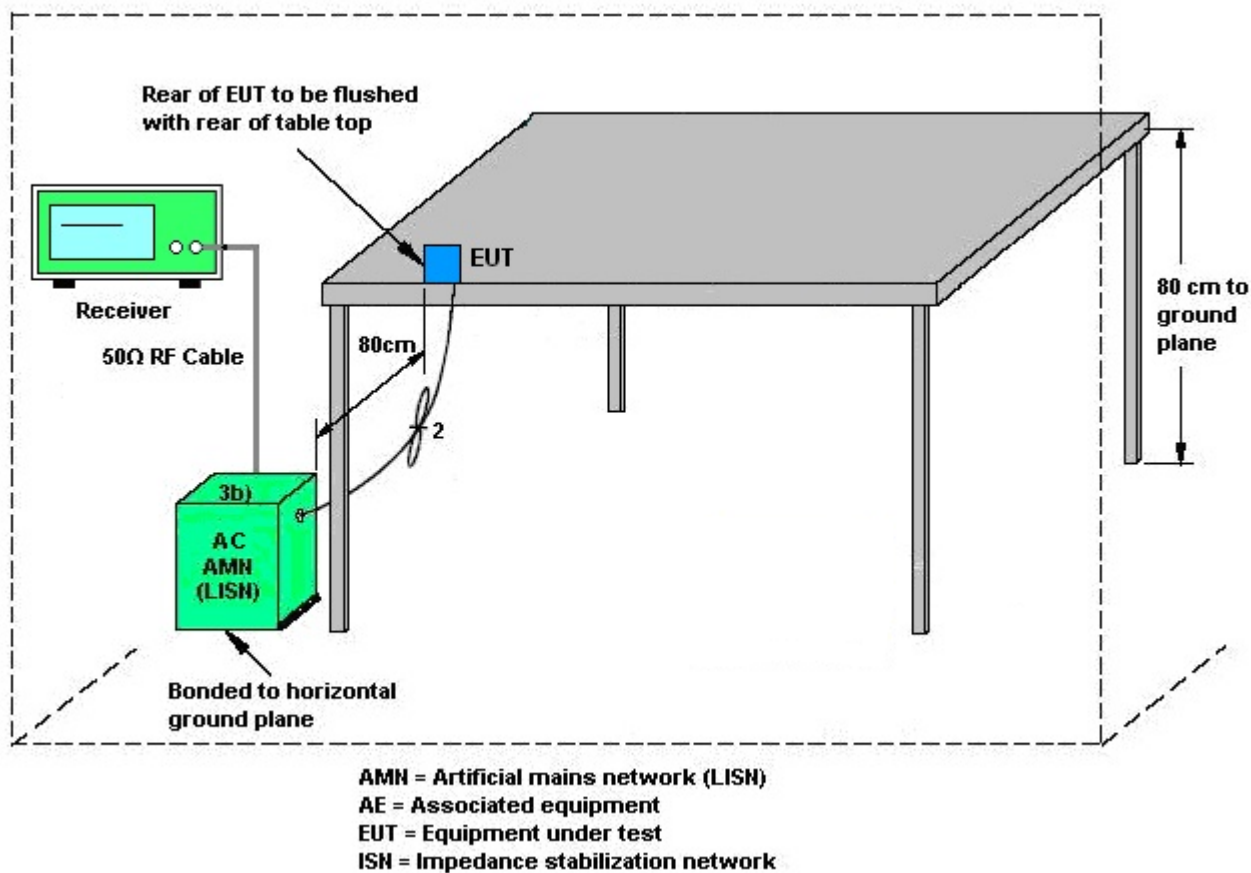
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

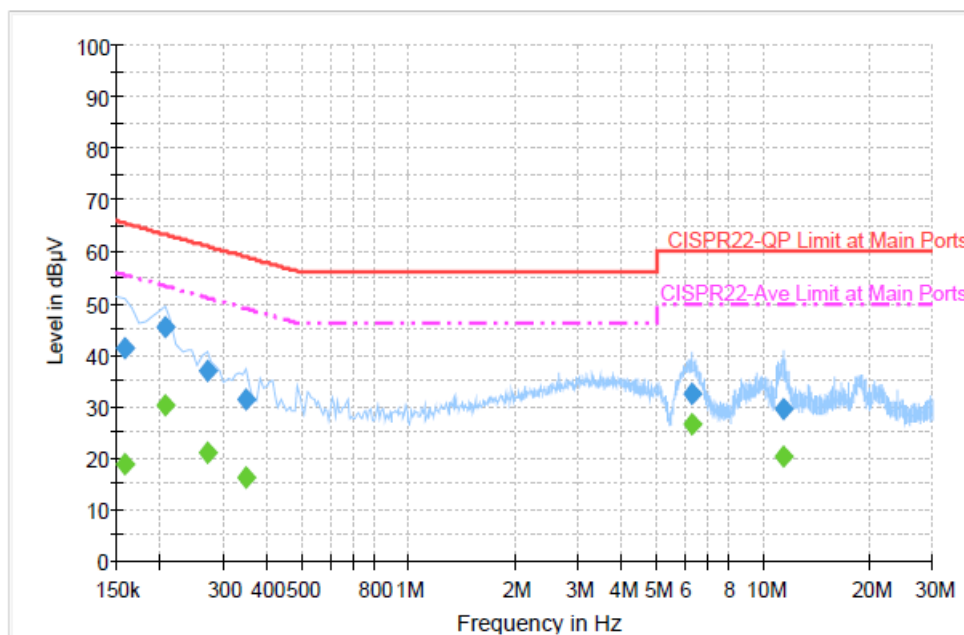
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.2.4 Test Setup



3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + USB HD + H-Pattern + Adapter 3		



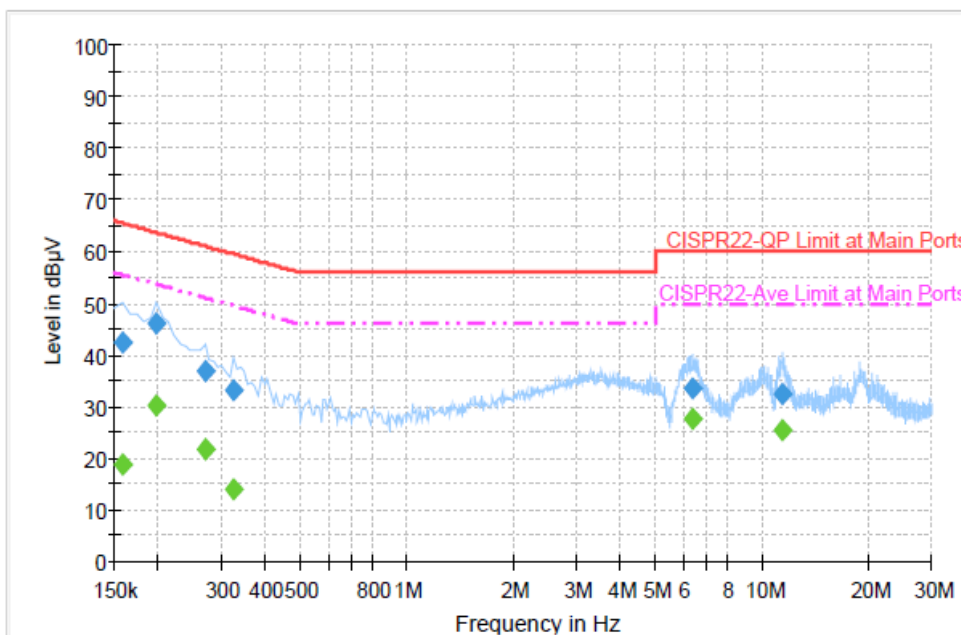
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	41.2	Off	L1	19.3	24.4	65.6
0.206000	45.5	Off	L1	19.4	17.9	63.4
0.270000	36.7	Off	L1	19.3	24.4	61.1
0.350000	31.3	Off	L1	19.4	27.7	59.0
6.310000	32.3	Off	L1	19.6	27.7	60.0
11.374000	29.5	Off	L1	19.8	30.5	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	18.7	Off	L1	19.3	36.9	55.6
0.206000	30.3	Off	L1	19.4	23.1	53.4
0.270000	20.9	Off	L1	19.3	30.2	51.1
0.350000	16.3	Off	L1	19.4	32.7	49.0
6.310000	26.4	Off	L1	19.6	23.6	50.0
11.374000	20.4	Off	L1	19.8	29.6	50.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + USB HD + H-Pattern + Adapter 3		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	42.6	Off	N	19.3	23.0	65.6
0.198000	46.0	Off	N	19.3	17.7	63.7
0.270000	36.8	Off	N	19.4	24.3	61.1
0.326000	33.1	Off	N	19.4	26.5	59.6
6.366000	33.4	Off	N	19.7	26.6	60.0
11.382000	32.4	Off	N	19.8	27.6	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	18.9	Off	N	19.3	36.7	55.6
0.198000	30.4	Off	N	19.3	23.3	53.7
0.270000	21.7	Off	N	19.4	29.4	51.1
0.326000	13.9	Off	N	19.4	35.7	49.6
6.366000	27.6	Off	N	19.7	22.4	50.0
11.382000	25.4	Off	N	19.8	24.6	50.0

3.3 Automatically Discontinue Transmission

3.3.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.4 Antenna Requirements

3.4.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band I	-0.55	1.46	0.57	3.58	0.00	0.00
Band II	-0.55	1.46	0.57	3.58	0.00	0.00
Band III	0.54	1.24	0.90	3.91	0.00	0.00

$$\text{Power Limit Reduction} = DG(\text{Power}) - 6\text{dBi}, (\text{min} = 0)$$

$$\text{PSD Limit Reduction} = DG(\text{PSD}) - 6\text{dBi}, (\text{min} = 0)$$

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 17, 2013	Oct. 03, 2013~ Nov. 07, 2013	Aug. 16, 2014	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 17, 2013	Oct. 03, 2013~ Nov. 07, 2013	Aug. 16, 2014	Conducted (TH02-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz – 26.5GHz	Jan. 23, 2013	Oct. 22, 2013~ Oct. 28, 2013	Jan. 22, 2014	Radiation (03CH08-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz~2GHz	Oct. 10, 2013	Oct. 22, 2013~ Oct. 28, 2013	Oct. 09, 2014	Radiation (03CH08-HY)
Horn Antenna	ESCO	3117	000143261	1GHz~18GHz	Jan. 08, 2013	Oct. 22, 2013~ Oct. 28, 2013	Jan. 07, 2014	Radiation (03CH08-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Oct. 03, 2013	Oct. 22, 2013~ Oct. 28, 2013	Oct. 02, 2014	Radiation (03CH08-HY)
Amplifier	SONOMA	310N	187231	9kHz~1GHz	May 15, 2013	Oct. 22, 2013~ Oct. 28, 2013	May 14, 2014	Radiation (03CH08-HY)
Pre Amplifier	EMC INSTRUMENT	EMC011830	980148	100MHz~18GHz	Jun. 21, 2013	Oct. 22, 2013~ Oct. 28, 2013	Jun. 20, 2014	Radiation (03CH08-HY)
Pre Amplifier	Agilent	8449B	3008A02665	1GHz~26.5GHz	Sep. 04, 2013	Oct. 22, 2013~ Oct. 28, 2013	Sep. 03, 2014	Radiation (03CH08-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9 kHz~30 MHz	Jul. 03, 2012	Oct. 22, 2013~ Oct. 28, 2013	Jul. 03, 2014	Radiation (03CH08-HY)
Turn Table	Chaintek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 22, 2013~ Oct. 28, 2013	N/A	Radiation (03CH08-HY)
Antenna Mast	MF	MFA520BS	N/A	1m~4m	N/A	Oct. 22, 2013~ Oct. 28, 2013	N/A	Radiation (03CH08-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 13, 2012	Oct. 18, 2013	Nov. 12, 2013	Conduction (CO05-HY)
Two-LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2012	Oct. 18, 2013	Dec. 11, 2013	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 06, 2012	Oct. 18, 2013	Dec. 05, 2013	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Oct. 18, 2013	N/A	Conduction (CO05-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3
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