Partial FCC RF Test Report

APPLICANT	:	Motion Computing Incorporated
EQUIPMENT	:	N6230 mini PCI-E WiFi a/b/g/n + BT module
BRAND NAME	:	Motion Computing Incorporated
MODEL NAME	:	62230ANHMW
FCC ID	:	Q3QIHW62230ANH
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

The product was installed into Host (Brand Name: Motion Computing Incorporated, Model Name: CFT-003) during test.

This is a partial report which is included the Radiation Emission and Conducted Emission tests item. The product was received on Nov. 09, 2011 and completely tested on Nov. 29, 2011. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance 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:

Jones Tsai

Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR1N0901B	Rev. 01	Conducted data refer to Intel 6230 Module Reports.	Jan. 03, 2012

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	A8.5	Frequency Band Edges	≤ 20dBc	Pass	-
3.2	15.207	Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 11.10 dB at 2.910 MHz
3.3	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.23 dB at 2484.990 MHz
3.4	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Motion Computing Incorporated
8601 Ranch Road 2222; Building #2 Austin, Texas 78730 USA

1.2 Manufacturer

Motion Computing Incorporated
8601 Ranch Road 2222; Building #2 Austin, Texas 78730 USA

1.3 Factory

Pegatron Corporation
5F. No. 76, Li-Gong St., Beitou District, Taipei City 112, Taiwan, R.O.C.

1.4 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	N6230 mini PCI-E WiFi a/b/g/n + BT module
Brand Name	Motion Computing Incorporated
Model Name	62230ANHMW
FCC ID	Q3QIHW62230ANH
Tx/Rx Frequency Range	802.11b/g/n : 2400 MHz ~ 2483.5 MHz 802.11a/n : 5725 MHz ~ 5850 MHz
Channel Spacing	802.11b/g : 5 MHz 802.11a : 20 MHz
Maximum Output Power to Antenna	**<2400 MHz ~ 2483.5 MHz>** 802.11b : 20.37 dBm (0.1089 W) 802.11g : 22.28 dBm (0.1690 W) 802.11n (BW 20MHz) : 23.53 dBm (0.2254 W) 802.11n (BW 40MHz) : 22.98 dBm (0.1986 W) **<5725 MHz ~ 5850 MHz>** 802.11a : 22.63 dBm (0.1832 W) 802.11n (BW 20MHz) : 22.65 dBm (0.1841 W) 802.11n (BW 40MHz) : 22.57 dBm (0.1807 W)
Antenna Type	**<Main Antenna>** 802.11b/g/n : PIFA Antenna 802.11a/n : PIFA Antenna **<Aux. Antenna>** 802.11b/g/n : PIFA Antenna 802.11a/n : PIFA Antenna
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT Stage	Production Unit

Host Information	
Brand Name	Motion Computing Incorporated
Model Name	CFT-003
FCC ID	Q3QTIRFID7960
Tx/Rx Frequency Range	13.56 MHz
Antenna Type	PCB Antenna
Type of Modulation	ASK

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

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1st 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.
	CO05-HY	03CH05HY	722060/4086B-1

1.6 Applied Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ANSI C63.4-2003
- IC RSS-210 Issue 8
- IC RSS-Gen Issue 3

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.7 Ancillary Equipment List

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.	Notebook	DELL	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
4.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

2 Test Configuration of Equipment Under Test

2.1 RF Power

Preliminary tests were performed in different data rate and recorded the RF power output in the following table:

Band	2.4GHz 802.11b RF Power (dBm)					
Chain	A			B		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	19.51	19.53	19.54	18.85	17.35	**20.37**

Band	2.4GHz 802.11g RF Power (dBm)					
Chain	A			B		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	21.75	**22.28**	21.53	20.82	21.14	20.37

Band	2.4GHz 802.11n (BW 20MHz) RF Power (dBm)					
Chain	A			B		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	21.65	22.22	20.91	20.43	21.06	20.37

Band	2.4GHz 802.11n (BW 20MHz) RF Power (dBm)								
Chain	A+B(A)			A+B(B)			A+B		
Channel	1	6	11	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462	2412	2437	2462
Peak Power	20.59	20.92	19.47	20.34	20.07	18.99	23.48	**23.53**	22.25

Band	2.4GHz 802.11n (BW 40MHz) RF Power (dBm)					
Chain	A			B		
Channel	3	6	9	3	6	9
Frequency (MHz)	2422	2437	2452	2422	2437	2452
Peak Power	20.16	22.07	19.54	18.47	20.13	18.41

Band	2.4GHz 802.11n (BW 40MHz) RF Power (dBm)								
Chain	A+B(A)			A+B(B)			A+B		
Channel	3	6	9	3	6	9	3	6	9
Frequency (MHz)	2422	2437	2452	2422	2437	2452	2422	2437	2452
Peak Power	16.53	20.45	16.23	16.85	19.42	15.85	19.70	**22.98**	19.05

Band	5GHz 802.11a RF Power (dBm)					
Chain	A			B		
Channel	149	157	165	149	157	165
Frequency (MHz)	5745	5785	5825	5745	5785	5825
Peak Power	22.51	22.15	22.19	**22.63**	22.48	22.10

Band	5GHz 802.11n (BW 20MHz) RF Power (dBm)					
Chain	A			B		
Channel	149	157	165	149	157	165
Frequency (MHz)	5745	5785	5825	5745	5785	5825
Peak Power	22.56	22.20	22.23	**22.65**	22.45	22.51

Band	5GHz 802.11n (BW 20MHz) RF Power (dBm)								
Chain	A+B(A)			A+B(B)			A+B		
Channel	149	157	165	149	157	165	149	157	165
Frequency (MHz)	5745	5785	5825	5745	5785	5825	5745	5785	5825
Peak Power	18.64	17.96	17.58	19.20	18.57	18.61	21.94	21.29	21.14

Band	5GHz 802.11n (BW 40MHz) RF Power (dBm)			
Chain	A		B	
Channel	151	159	151	159
Frequency (MHz)	5755	5795	5755	5795
Peak Power	22.57	22.15	22.53	22.51

Band	5GHz 802.11n (BW 40MHz) RF Power (dBm)					
Chain	A+B(A)		A+B(B)		A+B	
Channel	151	159	151	159	151	159
Frequency (MHz)	5755	5795	5755	5795	5755	5795
Peak Power	18.66	18.65	19.35	19.15	22.03	21.92

Remark:

1. All the test data for each data rate were verified, but only the worst case was reported.
2. The data rates of WLAN 802.11a/b/g/n were set in 1Mbps for 802.11b, 6Mbps for 802.11g, HT0 and HT8 for 802.11n (BW 20MHz), HT0 and HT8 for 802.11n (BW 40MHz), 6Mbps for 802.11a, HT0 and HT8 for 802.11n (BW 20MHz) and HT0 and HT8 for 802.11n (BW 40MHz) for all the test cases due to the highest RF output power.
3. The EUT is programmed to transmit signals continuously for all testing.

2.2 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations, laptop / tablet modes.

Radiated band edge measurements were chosen from the highest RF output power of each chain, the n (HT-20/HT-40) modes, SISO and 2Tx (chain A+B) modes. The worst modes from the legacy modes and n modes were used for the full radiated test measurement.

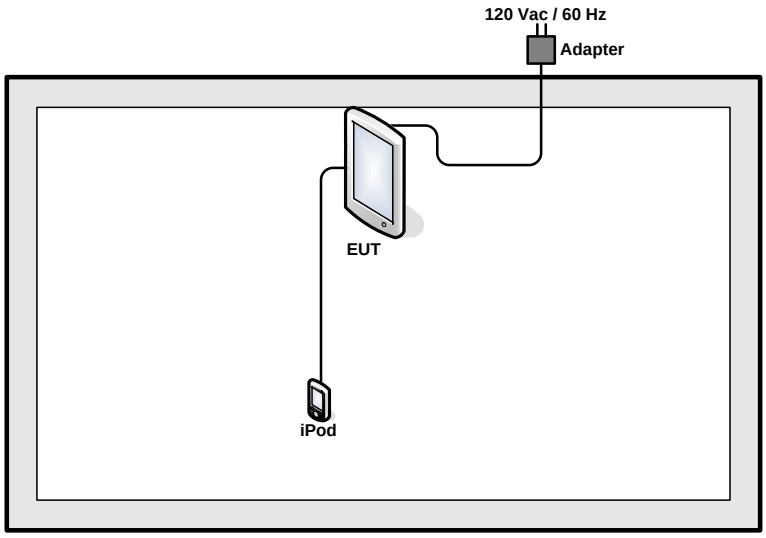
For conducted test cases, the high, middle, low channels of legacy modes (802.11abg), and 802.11n mode (SISO, MIMO) were tested respectively by choosing the highest RF output power chain, and data rate from preliminary testing as shown in section 2.1.

The following table is showing the total pre-scanned test modes, and the worst modes (H plane) are recorded in this report only.

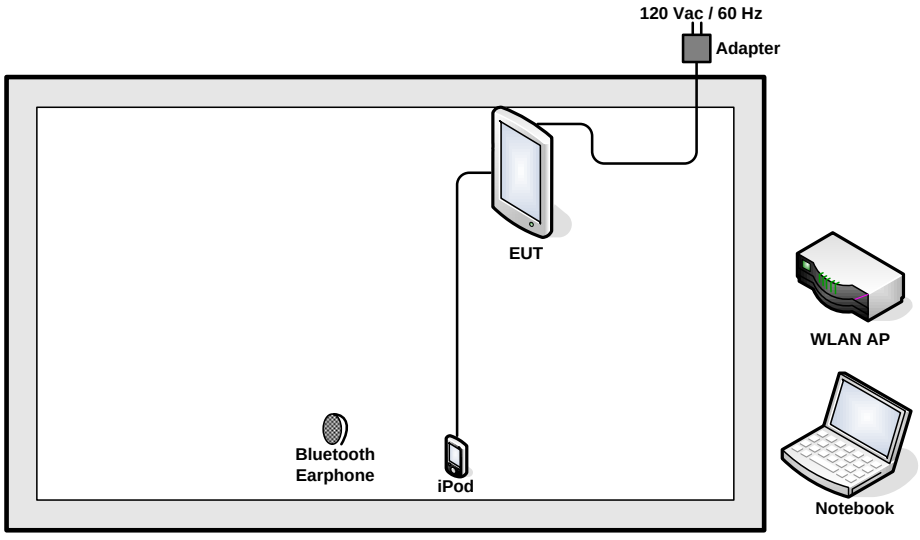
Test Cases		
Test Item	**802.11b (Modulation : DSSS)** **802.11g/n (Modulation : OFDM)**	**802.11a/n (Modulation : OFDM)**
Radiated TCs	Mode 1: 802.11b CH01 2412 MHz (Chain A) Mode 2: 802.11b CH06 2437 MHz (Chain A) Mode 3: 802.11b CH11 2462 MHz (Chain A) Mode 4: 802.11g CH01 2412 MHz (Chain A) Mode 5: 802.11g CH06 2437 MHz (Chain A) Mode 6: 802.11g CH11 2462 MHz (Chain A) Mode 7: 802.11g CH11 2462 MHz (Chain B) Mode 8: 802.11n CH01 2412 MHz (BW 20M) (Chain A) Mode 9: 802.11n CH06 2437 MHz (BW 20M) (Chain A) Mode 10: 802.11n CH11 2462 MHz (BW 20M) (Chain A) Mode 11: 802.11n CH11 2462 MHz (BW 20M) (Chain B) Mode 12: 802.11n CH11 2462 MHz (BW 20M) (Chain A+B) Mode 13: 802.11n CH03 2422 MHz (BW 40M) (Chain A) Mode 14: 802.11n CH09 2452 MHz (BW 40M) (Chain A)	Mode 15: 802.11a CH149 5745 MHz (Chain A) Mode 16: 802.11a CH157 5785 MHz (Chain A) Mode 17: 802.11a CH165 5825 MHz (Chain A) Mode 18: 802.11a CH149 5745 MHz (Chain B) Mode 19: 802.11n CH149 5745 MHz (BW 20M) (Chain A) Mode 20: 802.11n CH157 5785 MHz (BW 20M) (Chain A) Mode 21: 802.11n CH165 5825 MHz (BW 20M) (Chain A) Mode 22: 802.11n CH149 5745 MHz (BW 20M) (Chain B) Mode 23: 802.11n CH149 5745 MHz (BW 20M) (Chain A+B) Mode 24: 802.11n CH151 5755 MHz (BW 40M) (Chain A) Mode 25: 802.11n CH159 5795 MHz (BW 40M) (Chain A)
AC Conducted Emission	Mode 1 : WLAN (2.4G) Link + Bluetooth Link + I- Pod + Adapter + Battery Mode 2 : WLAN (5G) Link + Bluetooth Link + I- Pod + Adapter + Battery	
Remark: The worst case of conducted emission is mode 2; only the test data of it was reported.		

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 RF Utility

The programmed RF utility “DRTU”, is installed in EUT 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 Band Edges Measurement

3.1.1 Limit of Band Edges

In any 100 KHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

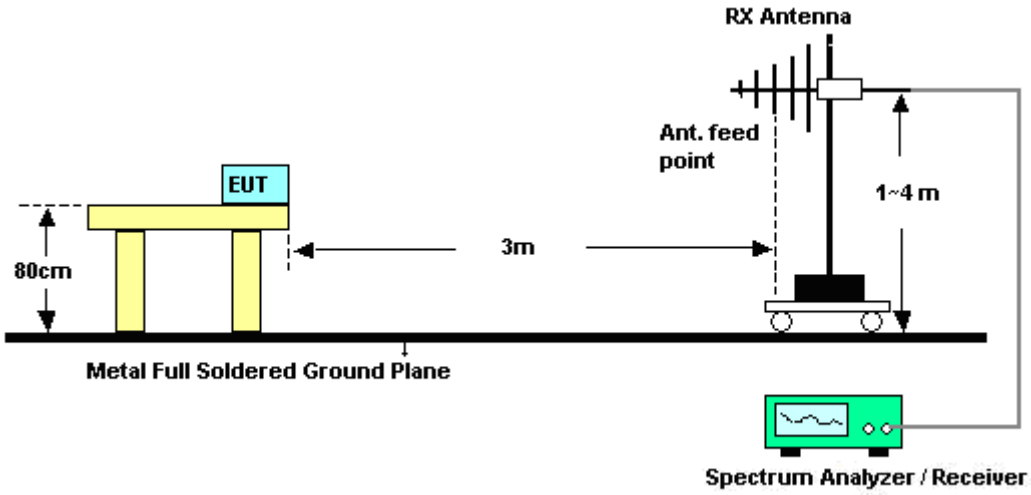
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 KHz, Video bandwidth (VBW) > RBW. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 KHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

3.1.4 Test Setup



3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	**Temperature :**	21~26°C
Test Band :	802.11b	**Relative Humidity :**	53~58%
Test Channel :	01	**Test Engineer :**	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	**Level (dBuV/m)**	**Over Limit (dB)**	**Limit Line (dBuV/m)**	**Read Level (dBuV)**	**Antenna Factor (dB)**	**Cable Loss (dB)**	**Preamp Factor (dB)**	**Ant Pos (cm)**	**Table Pos (deg)**	**Remark**
2387.33	56.93	-17.07	74	54.41	32.02	4.58	34.08	119	302	Peak
2387.33	37.76	-16.24	54	35.24	32.02	4.58	34.08	119	302	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	**Level (dBuV/m)**	**Over Limit (dB)**	**Limit Line (dBuV/m)**	**Read Level (dBuV)**	**Antenna Factor (dB)**	**Cable Loss (dB)**	**Preamp Factor (dB)**	**Ant Pos (cm)**	**Table Pos (deg)**	**Remark**
2389.42	55.33	-18.67	74	52.81	32.02	4.58	34.08	172	10	Peak
2389.42	35.93	-18.07	54	33.41	32.02	4.58	34.08	172	10	Average

Test Mode :	Mode 3	**Temperature :**	21~26°C
Test Band :	802.11b	**Relative Humidity :**	53~58%
Test Channel :	11	**Test Engineer :**	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	**Level (dBuV/m)**	**Over Limit (dB)**	**Limit Line (dBuV/m)**	**Read Level (dBuV)**	**Antenna Factor (dB)**	**Cable Loss (dB)**	**Preamp Factor (dB)**	**Ant Pos (cm)**	**Table Pos (deg)**	**Remark**
2484.8	58.39	-15.61	74	55.74	32.09	4.64	34.08	167	297	Peak
2484.8	37.77	-16.23	54	35.12	32.09	4.64	34.08	167	297	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	**Level (dBuV/m)**	**Over Limit (dB)**	**Limit Line (dBuV/m)**	**Read Level (dBuV)**	**Antenna Factor (dB)**	**Cable Loss (dB)**	**Preamp Factor (dB)**	**Ant Pos (cm)**	**Table Pos (deg)**	**Remark**
2483.66	57.89	-16.11	74	55.24	32.09	4.64	34.08	100	40	Peak
2483.66	36.34	-17.66	54	33.69	32.09	4.64	34.08	100	40	Average

Test Mode :	Mode 4	Temperature :	21~26°C
Test Band :	802.11g	Relative Humidity :	53~58%
Test Channel :	01	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.99	62.79	-11.21	74	60.27	32.02	4.58	34.08	118	305	Peak
2389.99	43.91	-10.09	54	41.39	32.02	4.58	34.08	118	305	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.99	60.22	-13.78	74	57.7	32.02	4.58	34.08	103	11	Peak
2389.99	41.23	-12.77	54	38.71	32.02	4.58	34.08	103	11	Average

Test Mode :	Mode 6	Temperature :	21~26°C
Test Band :	802.11g	Relative Humidity :	53~58%
Test Channel :	11	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.66	71.29	-2.71	74	68.64	32.09	4.64	34.08	142	304	Peak
2483.66	51.69	-2.31	54	49.04	32.09	4.64	34.08	142	304	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.85	65.87	-8.13	74	63.22	32.09	4.64	34.08	167	2	Peak
2483.85	46.67	-7.33	54	44.02	32.09	4.64	34.08	167	2	Average

Test Mode :	Mode 7	Temperature :	21~26°C
Test Band :	802.11g	Relative Humidity :	53~58%
Test Channel :	11	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.66	68.73	-5.27	74	66.08	32.09	4.64	34.08	101	223	Peak
2483.66	47.87	-6.13	54	45.22	32.09	4.64	34.08	101	223	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.85	67.47	-6.53	74	64.82	32.09	4.64	34.08	102	261	Peak
2483.85	43.84	-10.16	54	41.19	32.09	4.64	34.08	102	261	Average

Test Mode :	Mode 8	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	01	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.92	65.37	-8.63	74	62.85	32.02	4.58	34.08	124	303	Peak
2389.92	42.61	-11.39	54	40.09	32.02	4.58	34.08	124	303	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.99	64.05	-9.95	74	61.53	32.02	4.58	34.08	100	6	Peak
2389.99	41.16	-12.84	54	38.64	32.02	4.58	34.08	100	6	Average

Test Mode :	Mode 10	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	11	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	72.48	-1.52	74	69.83	32.09	4.64	34.08	118	304	Peak
2483.5	51.02	-2.98	54	48.37	32.09	4.64	34.08	118	304	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.61	68.04	-5.96	74	65.39	32.09	4.64	34.08	119	9	Peak
2484.61	45.4	-8.6	54	42.75	32.09	4.64	34.08	119	9	Average

Test Mode :	Mode 11	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	11	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.99	72.77	-1.23	74	70.12	32.09	4.64	34.08	100	224	Peak
2484.99	52.07	-1.93	54	49.42	32.09	4.64	34.08	100	224	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	66.63	-7.37	74	63.98	32.09	4.64	34.08	101	261	Peak
2483.5	46.43	-7.57	54	43.78	32.09	4.64	34.08	101	261	Average

Test Mode :	Mode 12	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	11	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.8	62.6	-11.4	74	59.95	32.09	4.64	34.08	100	246	Peak
2484.8	44.87	-9.13	54	42.22	32.09	4.64	34.08	100	246	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.04	58.97	-15.03	74	56.32	32.09	4.64	34.08	102	261	Peak
2484.04	43.09	-10.91	54	40.44	32.09	4.64	34.08	102	261	Average

Test Mode :	Mode 13	Temperature :	21~26°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	53~58%
Test Channel :	03	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	57.18	-16.82	74	54.66	32.02	4.58	34.08	100	248	Peak
2390	40.2	-13.8	54	37.68	32.02	4.58	34.08	100	248	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	60.94	-13.06	74	58.42	32.02	4.58	34.08	100	4	Peak
2390	41.95	-12.05	54	39.43	32.02	4.58	34.08	100	4	Average

Test Mode :	Mode 14	Temperature :	21~26°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	53~58%
Test Channel :	09	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.08	65.74	-8.26	74	63.09	32.09	4.64	34.08	195	355	Peak
2484.08	47.68	-6.32	54	45.03	32.09	4.64	34.08	195	355	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.61	63.2	-10.8	74	60.55	32.09	4.64	34.08	116	6	Peak
2484.61	46.64	-7.36	54	43.99	32.09	4.64	34.08	116	6	Average

Test Mode :	Mode 15	Temperature :	21~26°C
Test Band :	802.11a	Relative Humidity :	53~58%
Test Channel :	149	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	70.79	-10.23	81.02	62.15	34.66	7.17	33.19	135	134	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	76.41	-11.95	88.36	67.77	34.66	7.17	33.19	100	140	Peak

Test Mode :	Mode 17	Temperature :	21~26°C
Test Band :	802.11a	Relative Humidity :	53~58%
Test Channel :	165	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	63.75	-16.8	80.55	54.81	34.85	7.29	33.2	101	105	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	70.81	-18.05	88.86	61.87	34.85	7.29	33.2	100	143	Peak

Test Mode :	Mode 18	Temperature :	21~26°C
Test Band :	802.11a	Relative Humidity :	53~58%
Test Channel :	149	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	70.1	-12.3	82.4	61.46	34.66	7.17	33.19	101	280	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	77.27	-11.19	88.46	68.63	34.66	7.17	33.19	100	238	Peak

Test Mode :	Mode 19	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	149	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	73.57	-7.13	80.7	64.93	34.66	7.17	33.19	135	138	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	79.44	-8.43	87.87	70.8	34.66	7.17	33.19	100	142	Peak

Test Mode :	Mode 21	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	165	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	65.43	-15.12	80.55	56.49	34.85	7.29	33.2	112	100	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	78.16	-10.44	88.6	69.22	34.85	7.29	33.2	100	145	Peak

Test Mode :	Mode 22	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	149	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	73.51	-8.67	82.18	64.87	34.66	7.17	33.19	126	280	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	78.73	-8.85	87.58	70.09	34.66	7.17	33.19	100	237	Peak

Test Mode :	Mode 23	Temperature :	21~26°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	53~58%
Test Channel :	149	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	56.39	-19.93	76.32	47.75	34.66	7.17	33.19	100	293	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	62.73	-20.72	83.45	54.09	34.66	7.17	33.19	100	146	Peak

Test Mode :	Mode 24	Temperature :	21~26°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	53~58%
Test Channel :	151	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	69.12	-7.9	77.02	60.48	34.66	7.17	33.19	126	103	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	76.02	-8.87	84.89	67.38	34.66	7.17	33.19	100	144	Peak

Test Mode :	Mode 25	Temperature :	21~26°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	53~58%
Test Channel :	159	Test Engineer :	Wii Chang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	58.46	-20.27	78.73	49.52	34.85	7.29	33.2	114	108	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5850	66.49	-19.67	86.16	57.55	34.85	7.29	33.2	100	145	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 (dBuV)	
	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.

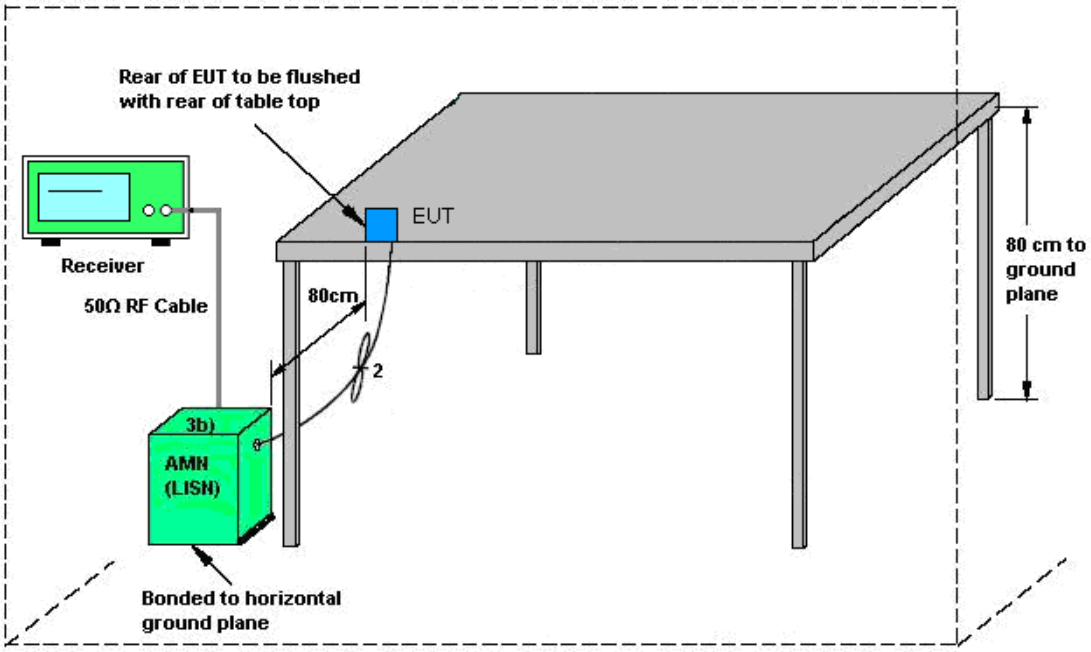
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 KHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

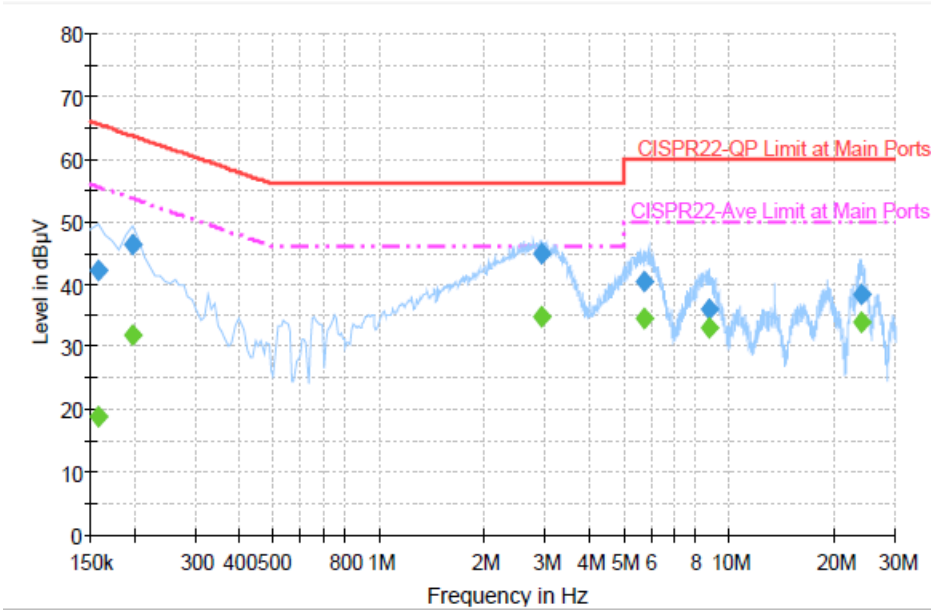
3.2.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	**Temperature :**	20~22℃
Test Engineer :	Novic Chiang	**Relative Humidity :**	40~42%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WLAN (5G) Link + Bluetooth Link + I- Pod + Adapter + Battery		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



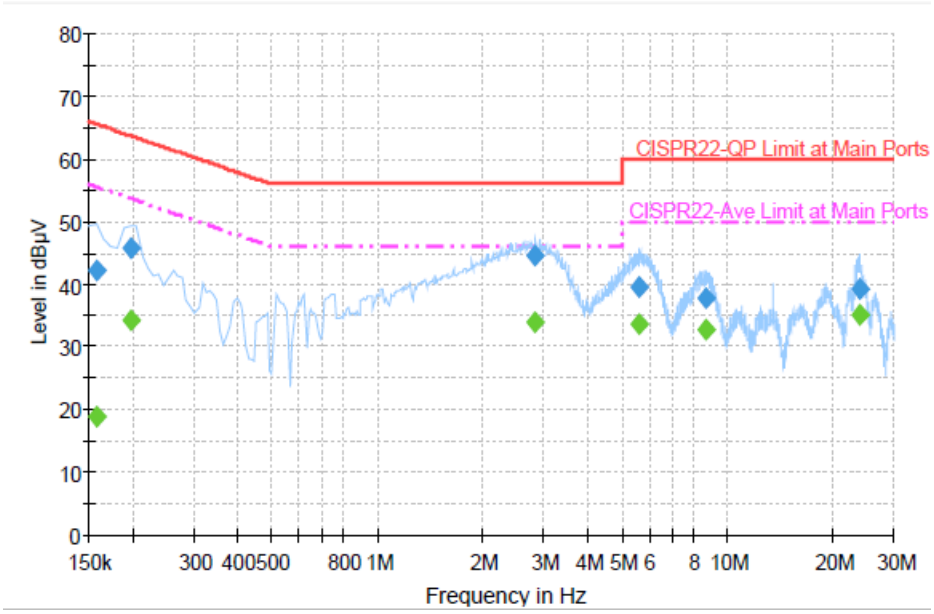
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	42.2	Off	L1	19.4	23.4	65.6
0.198000	46.3	Off	L1	19.4	17.4	63.7
2.910000	44.9	Off	L1	19.4	11.1	56.0
5.750000	40.4	Off	L1	19.5	19.6	60.0
8.806000	36.1	Off	L1	19.6	23.9	60.0
24.062000	38.3	Off	L1	19.7	21.7	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	18.8	Off	L1	19.4	36.8	55.6
0.198000	31.8	Off	L1	19.4	21.9	53.7
2.910000	34.7	Off	L1	19.4	11.3	46.0
5.750000	34.6	Off	L1	19.5	15.4	50.0
8.806000	32.9	Off	L1	19.6	17.1	50.0
24.062000	33.9	Off	L1	19.7	16.1	50.0

Test Mode :	Mode 2	Temperature :	20~22℃
Test Engineer :	Novic Chiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5G) Link + Bluetooth Link + I- Pod + Adapter + Battery		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	42.1	Off	N	19.4	23.5	65.6
0.198000	45.9	Off	N	19.4	17.8	63.7
2.822000	44.6	Off	N	19.5	11.4	56.0
5.614000	39.6	Off	N	19.5	20.4	60.0
8.670000	37.8	Off	N	19.6	22.2	60.0
23.822000	39.2	Off	N	19.8	20.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	18.8	Off	N	19.4	36.8	55.6
0.198000	34.2	Off	N	19.4	19.5	53.7
2.822000	34.0	Off	N	19.5	12.0	46.0
5.614000	33.6	Off	N	19.5	16.4	50.0
8.670000	32.7	Off	N	19.6	17.3	50.0
23.822000	35.0	Off	N	19.8	15.0	50.0

3.3 Radiated Emission Measurement

3.3.1 Limit of Radiated Emission

In any 100 KHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

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

3.3.2 Measuring Instruments

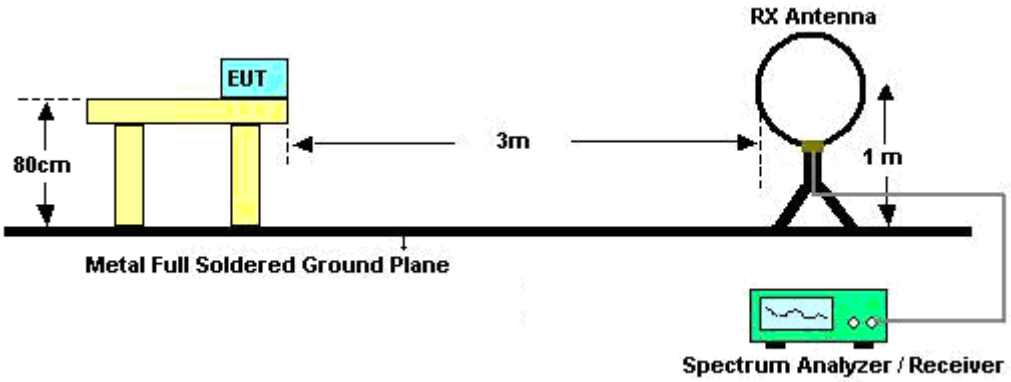
See list of measuring instruments of this test report.

3.3.3 Test Procedures

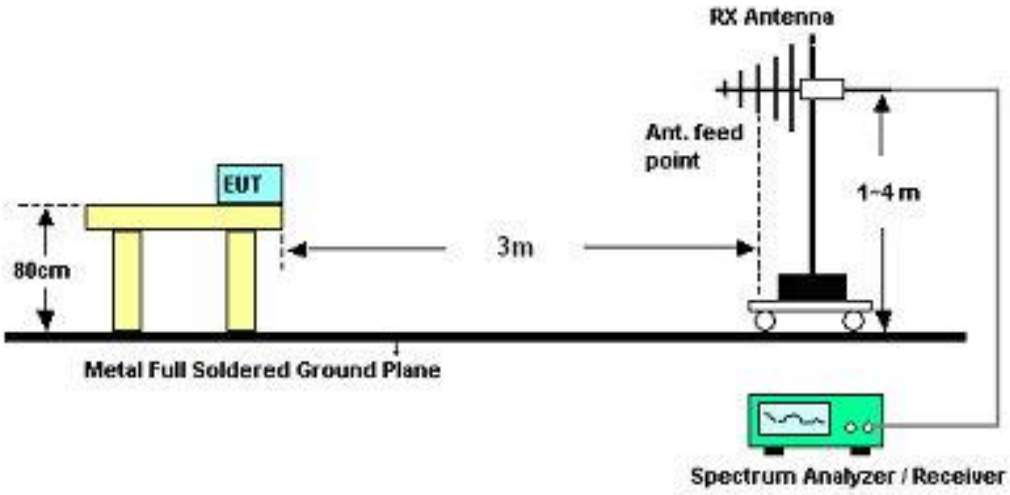
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:
   (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f ≥ 1 GHz, 100 KHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
   (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
   Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.3.4 Test Setup

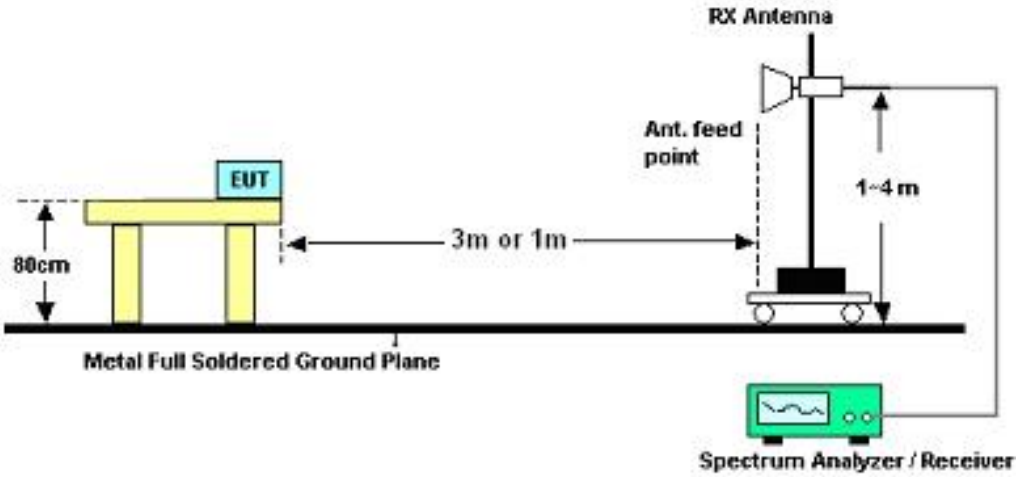
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.3.5 Test Results of Radiated Emissions (9KHz ~ 30MHz)

Test Engineer :	Wii Chang	Temperature :	21~26°C
		Relative Humidity :	53~58%

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

Note:

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

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

Limit line = specific limits (dBuV) + distance extrapolation factor.

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

Test Mode :	Mode 1	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.89	17.83	-22.17	40	31.44	17.21	0.72	31.54	200	32	Peak
167.7	21.09	-22.41	43.5	42.15	9.12	1.36	31.54	-	-	Peak
184.17	19.46	-24.04	43.5	41.08	8.46	1.42	31.5	-	-	Peak
388.2	22.07	-23.93	46	36.84	14.46	1.98	31.21	-	-	Peak
484.8	21.49	-24.51	46	33.67	16.72	2.2	31.1	-	-	Peak
678.7	23.76	-22.24	46	32.83	19.05	2.62	30.74	-	-	Peak
2387.33	37.76	-16.24	54	35.24	32.02	4.58	34.08	119	302	Average
2387.33	56.93	-17.07	74	54.41	32.02	4.58	34.08	119	302	Peak
2412	101.54	-	-	99	32.03	4.59	34.08	119	302	Average
2412	106.42	-	-	103.88	32.03	4.59	34.08	119	302	Peak
2486	32.58	-21.42	54	29.93	32.09	4.64	34.08	119	302	Average
2486	47.79	-26.21	74	45.14	32.09	4.64	34.08	119	302	Peak

Test Mode :	Mode 1	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
36.75	22.41	-17.59	40	38.6	14.59	0.74	31.52	-	-	Peak
51.33	25.29	-14.71	40	48.55	7.49	0.81	31.56	-	-	Peak
165.54	20.64	-22.86	43.5	41.56	9.25	1.36	31.53	-	-	Peak
302.1	20.39	-25.61	46	37.63	12.24	1.79	31.27	-	-	Peak
678.7	25.64	-20.36	46	34.71	19.05	2.62	30.74	-	-	Peak
913.9	33.32	-12.68	46	38.67	22.09	3.02	30.46	100	127	Peak
2389.42	35.93	-18.07	54	33.41	32.02	4.58	34.08	172	10	Average
2389.42	55.33	-18.67	74	52.81	32.02	4.58	34.08	172	10	Peak
2412	99.97	-	-	97.43	32.03	4.59	34.08	172	10	Average
2412	104.67	-	-	102.13	32.03	4.59	34.08	172	10	Peak
2484	32.42	-21.58	54	29.77	32.09	4.64	34.08	172	10	Average
2484	47.33	-26.67	74	44.68	32.09	4.64	34.08	172	10	Peak

Test Mode :	Mode 2	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.97	18.16	-21.84	40	32.35	16.63	0.72	31.54	-	-	Peak
163.11	20.5	-23	43.5	41.22	9.44	1.35	31.51	-	-	Peak
181.74	19.21	-24.29	43.5	40.8	8.52	1.4	31.51	-	-	Peak
387.5	22.74	-23.26	46	37.51	14.46	1.98	31.21	-	-	Peak
484.8	21.96	-24.04	46	34.14	16.72	2.2	31.1	-	-	Peak
913.9	35.85	-10.15	46	41.2	22.09	3.02	30.46	200	14	Peak
2390	32.93	-21.07	54	30.41	32.02	4.58	34.08	100	293	Average
2390	48.63	-25.37	74	46.11	32.02	4.58	34.08	100	293	Peak
2437	101.25	-	-	98.66	32.06	4.61	34.08	100	293	Average
2437	106.71	-	-	104.12	32.06	4.61	34.08	100	293	Peak
2490	32.56	-21.44	54	29.9	32.1	4.64	34.08	100	293	Average
2490	47.08	-26.92	74	44.42	32.1	4.64	34.08	100	293	Peak

Test Mode :	Mode 2	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
51.6	25.71	-14.29	40	48.97	7.49	0.81	31.56	100	29	Peak
165.54	20.6	-22.9	43.5	41.52	9.25	1.36	31.53	-	-	Peak
294.06	23.03	-22.97	46	40.46	12.1	1.77	31.3	-	-	Peak
451.9	21.66	-24.34	46	34.71	15.96	2.14	31.15	-	-	Peak
743.1	23.79	-22.21	46	31.67	19.94	2.74	30.56	-	-	Peak
882.4	24.42	-21.58	46	30.28	21.65	2.98	30.49	-	-	Peak
2390	32.66	-21.34	54	30.14	32.02	4.58	34.08	100	43	Average
2390	47.99	-26.01	74	45.47	32.02	4.58	34.08	100	43	Peak
2437	97.41	-	-	94.82	32.06	4.61	34.08	100	43	Average
2437	102.34	-	-	99.75	32.06	4.61	34.08	100	43	Peak
2486	32.31	-21.69	54	29.66	32.09	4.64	34.08	100	43	Average
2486	49.23	-24.77	74	46.58	32.09	4.64	34.08	100	43	Peak

Test Mode :	Mode 3	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
33.24	17.93	-22.07	40	32.12	16.63	0.72	31.54	-	-	Peak
187.95	20.61	-22.89	43.5	42.29	8.38	1.43	31.49	-	-	Peak
216.57	20.61	-25.39	46	41.26	9.3	1.53	31.48	-	-	Peak
387.5	22.39	-23.61	46	37.16	14.46	1.98	31.21	-	-	Peak
678	23.99	-22.01	46	33.06	19.05	2.62	30.74	-	-	Peak
914.6	38.5	-7.5	46	43.82	22.12	3.02	30.46	200	14	Peak
2382	33.01	-20.99	54	30.51	32	4.58	34.08	167	297	Average
2382	47.7	-26.3	74	45.2	32	4.58	34.08	167	297	Peak
2462	102.11	-	-	99.5	32.07	4.62	34.08	167	297	Average
2462	106.43	-	-	103.82	32.07	4.62	34.08	167	297	Peak
2484.8	37.77	-16.23	54	35.12	32.09	4.64	34.08	167	297	Average
2484.8	58.39	-15.61	74	55.74	32.09	4.64	34.08	167	297	Peak

Test Mode :	Mode 3	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
51.6	25.09	-14.91	40	48.35	7.49	0.81	31.56	100	38	Peak
156.9	20.65	-22.85	43.5	41	9.82	1.33	31.5	-	-	Peak
286.23	21.97	-24.03	46	39.53	12.03	1.75	31.34	-	-	Peak
451.9	21.44	-24.56	46	34.49	15.96	2.14	31.15	-	-	Peak
678.7	24.48	-21.52	46	33.55	19.05	2.62	30.74	-	-	Peak
915.3	29.81	-16.19	46	35.09	22.14	3.03	30.45	-	-	Peak
2390	32.85	-21.15	54	30.33	32.02	4.58	34.08	100	40	Average
2390	46.38	-27.62	74	43.86	32.02	4.58	34.08	100	40	Peak
2462	98.51	-	-	95.9	32.07	4.62	34.08	100	40	Average
2462	102.91	-	-	100.3	32.07	4.62	34.08	100	40	Peak
2483.66	36.34	-17.66	54	33.69	32.09	4.64	34.08	100	40	Average
2483.66	57.89	-16.11	74	55.24	32.09	4.64	34.08	100	40	Peak

Test Mode :	Mode 4	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
34.05	18.72	-21.28	40	33.46	16.06	0.73	31.53	-	-	Peak
165.54	21.83	-21.67	43.5	42.75	9.25	1.36	31.53	-	-	Peak
182.01	20.14	-23.36	43.5	41.73	8.5	1.41	31.5	-	-	Peak
387.5	21.77	-24.23	46	36.54	14.46	1.98	31.21	-	-	Peak
678.7	24.41	-21.59	46	33.48	19.05	2.62	30.74	-	-	Peak
897.1	32.11	-13.89	46	37.83	21.76	3	30.48	200	84	Peak
2389.99	43.91	-10.09	54	41.39	32.02	4.58	34.08	118	305	Average
2389.99	62.79	-11.21	74	60.27	32.02	4.58	34.08	118	305	Peak
2412	97.63	-	-	95.09	32.03	4.59	34.08	118	305	Average
2412	107.57	-	-	105.03	32.03	4.59	34.08	118	305	Peak
2484	33.1	-20.9	54	30.45	32.09	4.64	34.08	118	305	Average
2484	46.76	-27.24	74	44.11	32.09	4.64	34.08	118	305	Peak

Test Mode :	Mode 4	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.54	23.21	-16.79	40	36.27	17.78	0.71	31.55	-	-	Peak
51.6	25.33	-14.67	40	48.59	7.49	0.81	31.56	100	47	Peak
156.36	20.82	-22.68	43.5	41.12	9.88	1.32	31.5	-	-	Peak
451.9	20.84	-25.16	46	33.89	15.96	2.14	31.15	-	-	Peak
549.2	21.61	-24.39	46	32.35	17.88	2.33	30.95	-	-	Peak
679.4	25.4	-20.6	46	34.47	19.05	2.62	30.74	-	-	Peak
2389.99	41.23	-12.77	54	38.71	32.02	4.58	34.08	103	11	Average
2389.99	60.22	-13.78	74	57.7	32.02	4.58	34.08	103	11	Peak
2412	92.6	-	-	90.06	32.03	4.59	34.08	103	11	Average
2412	102.86	-	-	100.32	32.03	4.59	34.08	103	11	Peak
2498	31.82	-22.18	54	29.16	32.1	4.64	34.08	103	11	Average
2498	43.9	-30.1	74	41.24	32.1	4.64	34.08	103	11	Peak

Test Mode :	Mode 5	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
34.32	17.4	-22.6	40	32.14	16.06	0.73	31.53	-	-	Peak
195.51	15.67	-27.83	43.5	37.45	8.23	1.45	31.46	-	-	Peak
282.99	21.27	-24.73	46	38.89	12	1.74	31.36	-	-	Peak
321	23.93	-22.07	46	40.67	12.72	1.83	31.29	-	-	Peak
387.5	24.1	-21.9	46	38.87	14.46	1.98	31.21	-	-	Peak
841.1	24.85	-21.15	46	31.13	21.33	2.9	30.51	103	216	Peak
2358	35.71	-18.29	54	33.23	31.99	4.57	34.08	153	302	Average
2358	49.46	-24.54	74	46.98	31.99	4.57	34.08	153	302	Peak
2437	98.78	-	-	96.19	32.06	4.61	34.08	153	302	Average
2437	109.17	-	-	106.58	32.06	4.61	34.08	153	302	Peak
2484	34.41	-19.59	54	31.76	32.09	4.64	34.08	153	302	Average
2484	50.92	-23.08	74	48.27	32.09	4.64	34.08	153	302	Peak

Test Mode :	Mode 5	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.42	32.05	-7.95	40	56.85	5.79	0.91	31.5	120	253	Peak
79.95	25.04	-14.96	40	49.07	6.54	0.98	31.55	-	-	Peak
134.49	28.67	-14.83	43.5	48.14	10.79	1.25	31.51	-	-	Peak
456.8	18.48	-27.52	46	31.39	16.08	2.15	31.14	-	-	Peak
613.6	22.46	-23.54	46	32.05	18.78	2.47	30.84	-	-	Peak
783	22.29	-23.71	46	29.34	20.69	2.8	30.54	-	-	Peak
2382	34.4	-19.6	54	31.9	32	4.58	34.08	100	2	Average
2382	50.86	-23.14	74	48.36	32	4.58	34.08	100	2	Peak
2437	95.21	-	-	92.62	32.06	4.61	34.08	100	2	Average
2437	105.65	-	-	103.06	32.06	4.61	34.08	100	2	Peak
2486	33.34	-20.66	54	30.69	32.09	4.64	34.08	100	2	Average
2486	51.02	-22.98	74	48.37	32.09	4.64	34.08	100	2	Peak

Test Mode :	Mode 6	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
33.24	17.52	-22.48	40	31.71	16.63	0.72	31.54	-	-	Peak
258.69	18.66	-27.34	46	36.7	11.76	1.68	31.48	-	-	Peak
290.01	23.43	-22.57	46	40.93	12.06	1.76	31.32	-	-	Peak
387.5	25.13	-20.87	46	39.9	14.46	1.98	31.21	108	116	Peak
678	24.6	-21.4	46	33.67	19.05	2.62	30.74	-	-	Peak
808.2	24	-22	46	30.61	21.08	2.84	30.53	-	-	Peak
2382	33.8	-20.2	54	31.3	32	4.58	34.08	142	304	Average
2382	46.67	-27.33	74	44.17	32	4.58	34.08	142	304	Peak
2462	98.63	-	-	96.02	32.07	4.62	34.08	142	304	Average
2462	108.36	-	-	105.75	32.07	4.62	34.08	142	304	Peak
2483.66	51.69	-2.31	54	49.04	32.09	4.64	34.08	142	304	Average
2483.66	71.29	-2.71	74	68.64	32.09	4.64	34.08	142	304	Peak

Test Mode :	Mode 6	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.42	32.29	-7.71	40	57.09	5.79	0.91	31.5	100	277	Peak
115.86	28.08	-15.42	43.5	47.82	10.6	1.18	31.52	-	-	Peak
132.6	28.96	-14.54	43.5	48.42	10.82	1.24	31.52	-	-	Peak
454.7	18.18	-27.82	46	31.14	16.03	2.15	31.14	-	-	Peak
668.2	18.76	-27.24	46	27.89	19.01	2.61	30.75	-	-	Peak
832.7	23.77	-22.23	46	30.12	21.27	2.89	30.51	-	-	Peak
2386	32.53	-21.47	54	30.01	32.02	4.58	34.08	167	2	Average
2386	44.42	-29.58	74	41.9	32.02	4.58	34.08	167	2	Peak
2462	93.74	-	-	91.13	32.07	4.62	34.08	167	2	Average
2462	103.9	-	-	101.29	32.07	4.62	34.08	167	2	Peak
2483.85	46.67	-7.33	54	44.02	32.09	4.64	34.08	167	2	Average
2483.85	65.87	-8.13	74	63.22	32.09	4.64	34.08	167	2	Peak

Test Mode :	Mode 7	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2370	33.85	-20.15	54	31.36	32	4.57	34.08	101	223	Average
2370	46.35	-27.65	74	43.86	32	4.57	34.08	101	223	Peak
2462	97.92	-	-	95.31	32.07	4.62	34.08	101	223	Average
2462	107.57	-	-	104.96	32.07	4.62	34.08	101	223	Peak
2483.66	47.87	-6.13	54	45.22	32.09	4.64	34.08	101	223	Average
2483.66	68.73	-5.27	74	66.08	32.09	4.64	34.08	101	223	Peak
4924	46.07	-27.93	74	63.96	33.81	6.56	58.26	100	0	Peak

Test Mode :	Mode 7	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2362	32.85	-21.15	54	30.37	31.99	4.57	34.08	102	261	Average
2362	45.34	-28.66	74	42.86	31.99	4.57	34.08	102	261	Peak
2462	92.63	-	-	90.02	32.07	4.62	34.08	102	261	Average
2462	102.04	-	-	99.43	32.07	4.62	34.08	102	261	Peak
2483.85	43.84	-10.16	54	41.19	32.09	4.64	34.08	102	261	Average
2483.85	67.47	-6.53	74	64.82	32.09	4.64	34.08	102	261	Peak
4924	44.58	-29.42	74	62.47	33.81	6.56	58.26	100	0	Peak

Test Mode :	Mode 8	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	19.79	-20.21	40	32.29	18.36	0.7	31.56	103	87	Peak
169.32	15.35	-28.15	43.5	36.55	8.99	1.36	31.55	-	-	Peak
288.39	22.11	-23.89	46	39.65	12.04	1.75	31.33	-	-	Peak
326.6	25.18	-20.82	46	41.76	12.87	1.84	31.29	-	-	Peak
388.2	23.78	-22.22	46	38.55	14.46	1.98	31.21	-	-	Peak
678	23.64	-22.36	46	32.71	19.05	2.62	30.74	-	-	Peak
2389.92	42.61	-11.39	54	40.09	32.02	4.58	34.08	124	303	Average
2389.92	65.37	-8.63	74	62.85	32.02	4.58	34.08	124	303	Peak
2412	95.73	-	-	93.19	32.03	4.59	34.08	124	303	Average
2412	105.9	-	-	103.36	32.03	4.59	34.08	124	303	Peak
2488	32.9	-21.1	54	30.24	32.1	4.64	34.08	124	303	Average
2488	46.35	-27.65	74	43.69	32.1	4.64	34.08	124	303	Peak

Test Mode :	Mode 8	Temperature :	21~26°C
Test Channel :	01	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.69	32.43	-7.57	40	57.23	5.79	0.91	31.5	124	266	Peak
139.62	28.84	-14.66	43.5	48.38	10.7	1.27	31.51	-	-	Peak
230.07	21.02	-24.98	46	40.69	10.25	1.58	31.5	-	-	Peak
387.5	17.43	-28.57	46	32.2	14.46	1.98	31.21	-	-	Peak
678	22.66	-23.34	46	31.73	19.05	2.62	30.74	-	-	Peak
793.5	23.05	-22.95	46	29.88	20.89	2.82	30.54	-	-	Peak
2389.99	41.16	-12.84	54	38.64	32.02	4.58	34.08	100	6	Average
2389.99	64.05	-9.95	74	61.53	32.02	4.58	34.08	100	6	Peak
2412	91.58	-	-	89.04	32.03	4.59	34.08	100	6	Average
2412	101.91	-	-	99.37	32.03	4.59	34.08	100	6	Peak
2486	31.99	-22.01	54	29.34	32.09	4.64	34.08	100	6	Average
2486	43.87	-30.13	74	41.22	32.09	4.64	34.08	100	6	Peak

Test Mode :	Mode 9	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
34.32	17.94	-22.06	40	32.68	16.06	0.73	31.53	-	-	Peak
170.4	16.35	-27.15	43.5	37.61	8.93	1.36	31.55	-	-	Peak
289.74	22.79	-23.21	46	40.29	12.06	1.76	31.32	-	-	Peak
387.5	24.71	-21.29	46	39.48	14.46	1.98	31.21	100	255	Peak
678.7	24.1	-21.9	46	33.17	19.05	2.62	30.74	-	-	Peak
815.9	22.57	-23.43	46	29.1	21.14	2.86	30.53	-	-	Peak
2390	35.83	-18.17	54	33.31	32.02	4.58	34.08	117	304	Average
2390	56.2	-17.8	74	53.68	32.02	4.58	34.08	117	304	Peak
2437	98.79	-	-	96.2	32.06	4.61	34.08	117	304	Average
2437	109.39	-	-	106.8	32.06	4.61	34.08	117	304	Peak
2484	36.02	-17.98	54	33.37	32.09	4.64	34.08	117	304	Average
2484	59.07	-14.93	74	56.42	32.09	4.64	34.08	117	304	Peak

Test Mode :	Mode 9	Temperature :	21~26°C
Test Channel :	06	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2437 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	25.69	-14.31	40	38.19	18.36	0.7	31.56	-	-	Peak
69.42	32.28	-7.72	40	57.08	5.79	0.91	31.5	107	334	Peak
132.33	29.02	-14.48	43.5	48.47	10.84	1.23	31.52	-	-	Peak
479.9	18.02	-27.98	46	30.33	16.61	2.19	31.11	-	-	Peak
727.7	21.67	-24.33	46	29.94	19.65	2.7	30.62	-	-	Peak
976.2	25.61	-28.39	54	29.22	23.53	3.16	30.3	-	-	Peak
2390	34.36	-19.64	54	31.84	32.02	4.58	34.08	120	9	Average
2390	52.09	-21.91	74	49.57	32.02	4.58	34.08	120	9	Peak
2437	94.57	-	-	91.98	32.06	4.61	34.08	120	9	Average
2437	104.7	-	-	102.11	32.06	4.61	34.08	120	9	Peak
2484	33.25	-20.75	54	30.6	32.09	4.64	34.08	120	9	Average
2484	48.64	-25.36	74	45.99	32.09	4.64	34.08	120	9	Peak

Test Mode :	Mode 10	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
36.48	17.09	-22.91	40	33.28	14.59	0.74	31.52	-	-	Peak
170.13	16.26	-27.24	43.5	37.46	8.99	1.36	31.55	-	-	Peak
294.33	22.33	-23.67	46	39.75	12.11	1.77	31.3	-	-	Peak
387.5	23.71	-22.29	46	38.48	14.46	1.98	31.21	-	-	Peak
743.1	25.49	-20.51	46	33.37	19.94	2.74	30.56	100	96	Peak
872.6	23.2	-22.8	46	29.16	21.57	2.96	30.49	-	-	Peak
2390	34.03	-19.97	54	31.51	32.02	4.58	34.08	118	304	Average
2390	45.78	-28.22	74	43.26	32.02	4.58	34.08	118	304	Peak
2462	96.11	-	-	93.5	32.07	4.62	34.08	118	304	Average
2462	106.19	-	-	103.58	32.07	4.62	34.08	118	304	Peak
2483.5	51.02	-2.98	54	48.37	32.09	4.64	34.08	118	304	Average
2483.5	72.48	-1.52	74	69.83	32.09	4.64	34.08	118	304	Peak

Test Mode :	Mode 10	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	26.77	-13.23	40	39.27	18.36	0.7	31.56	-	-	Peak
69.42	32.81	-7.19	40	57.61	5.79	0.91	31.5	128	306	Peak
139.35	29.01	-14.49	43.5	48.55	10.7	1.27	31.51	-	-	Peak
549.2	21.66	-24.34	46	32.4	17.88	2.33	30.95	-	-	Peak
796.3	22.79	-23.21	46	29.56	20.95	2.82	30.54	-	-	Peak
986	27.5	-26.5	54	30.77	23.78	3.2	30.25	-	-	Peak
2356	32.47	-21.53	54	30.02	31.99	4.55	34.09	119	9	Average
2356	43.77	-30.23	74	41.32	31.99	4.55	34.09	119	9	Peak
2462	93.01	-	-	90.4	32.07	4.62	34.08	119	9	Average
2462	103.24	-	-	100.63	32.07	4.62	34.08	119	9	Peak
2484.61	45.4	-8.6	54	42.75	32.09	4.64	34.08	119	9	Average
2484.61	68.04	-5.96	74	65.39	32.09	4.64	34.08	119	9	Peak

Test Mode :	Mode 11	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2350	34.24	-19.76	54	31.8	31.98	4.55	34.09	100	224	Average
2350	46.33	-27.67	74	43.89	31.98	4.55	34.09	100	224	Peak
2462	97.26	-	-	94.65	32.07	4.62	34.08	100	224	Average
2462	108.28	-	-	105.67	32.07	4.62	34.08	100	224	Peak
2484.99	52.07	-1.93	54	49.42	32.09	4.64	34.08	100	224	Average
2484.99	72.77	-1.23	74	70.12	32.09	4.64	34.08	100	224	Peak
4924	47.09	-26.91	74	64.98	33.81	6.56	58.26	100	0	Peak

Test Mode :	Mode 11	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2348	32.92	-21.08	54	30.48	31.98	4.55	34.09	101	261	Average
2348	45.4	-28.6	74	42.96	31.98	4.55	34.09	101	261	Peak
2462	92.01	-	-	89.4	32.07	4.62	34.08	101	261	Average
2462	102.25	-	-	99.64	32.07	4.62	34.08	101	261	Peak
2483.5	46.43	-7.57	54	43.78	32.09	4.64	34.08	101	261	Average
2483.5	66.63	-7.37	74	63.98	32.09	4.64	34.08	101	261	Peak
4924	46	-28	74	63.89	33.81	6.56	58.26	100	0	Peak

Test Mode :	Mode 12	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	19.96	-20.04	40	32.46	18.36	0.7	31.56	122	104	Peak
193.89	14.78	-28.72	43.5	36.53	8.27	1.45	31.47	-	-	Peak
294.6	22.5	-23.5	46	39.92	12.11	1.77	31.3	-	-	Peak
328.7	23.05	-22.95	46	39.57	12.92	1.85	31.29	-	-	Peak
678.7	24.39	-21.61	46	33.46	19.05	2.62	30.74	-	-	Peak
895.7	23.99	-22.01	46	29.73	21.74	3	30.48	-	-	Peak
2368	33.24	-20.76	54	30.76	31.99	4.57	34.08	100	246	Average
2368	46.18	-27.82	74	43.7	31.99	4.57	34.08	100	246	Peak
2462	94.77	-	-	92.16	32.07	4.62	34.08	100	246	Average
2462	107.23	-	-	104.62	32.07	4.62	34.08	100	246	Peak
2484.8	44.87	-9.13	54	42.22	32.09	4.64	34.08	100	246	Average
2484.8	62.6	-11.4	74	59.95	32.09	4.64	34.08	100	246	Peak

Test Mode :	Mode 12	Temperature :	21~26°C
Test Channel :	11	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2462 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.54	26.23	-13.77	40	39.29	17.78	0.71	31.55	-	-	Peak
68.88	32.42	-7.58	40	57.28	5.74	0.9	31.5	171	269	Peak
138.81	28.99	-14.51	43.5	48.52	10.72	1.26	31.51	-	-	Peak
388.2	17.44	-28.56	46	32.21	14.46	1.98	31.21	-	-	Peak
549.2	20.73	-25.27	46	31.47	17.88	2.33	30.95	-	-	Peak
784.4	21.99	-24.01	46	28.99	20.73	2.81	30.54	-	-	Peak
2356	32.76	-21.24	54	30.31	31.99	4.55	34.09	102	261	Average
2356	45.36	-28.64	74	42.91	31.99	4.55	34.09	102	261	Peak
2462	91.42	-	-	88.81	32.07	4.62	34.08	102	261	Average
2462	103.54	-	-	100.93	32.07	4.62	34.08	102	261	Peak
2484.04	43.09	-10.91	54	40.44	32.09	4.64	34.08	102	261	Average
2484.04	58.97	-15.03	74	56.32	32.09	4.64	34.08	102	261	Peak

Test Mode :	Mode 13	Temperature :	21~26°C
Test Channel :	03	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2422 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
36.21	16.82	-23.18	40	32.56	15.04	0.74	31.52	-	-	Peak
169.59	14.94	-28.56	43.5	36.14	8.99	1.36	31.55	-	-	Peak
283.8	21.46	-24.54	46	39.06	12.01	1.74	31.35	-	-	Peak
321.7	23.25	-22.75	46	39.97	12.74	1.83	31.29	-	-	Peak
678.7	24.27	-21.73	46	33.34	19.05	2.62	30.74	-	-	Peak
807.5	25.04	-20.96	46	31.65	21.08	2.84	30.53	100	299	Peak
2390	40.2	-13.8	54	37.68	32.02	4.58	34.08	100	248	Average
2390	57.18	-16.82	74	54.66	32.02	4.58	34.08	100	248	Peak
2422	86.63	-	-	84.08	32.04	4.59	34.08	100	248	Average
2422	96.91	-	-	94.36	32.04	4.59	34.08	100	248	Peak
2494	32.96	-21.04	54	30.3	32.1	4.64	34.08	100	248	Average
2494	45.33	-28.67	74	42.67	32.1	4.64	34.08	100	248	Peak

Test Mode :	Mode 13	Temperature :	21~26°C
Test Channel :	03	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2422 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
57.81	25.42	-14.58	40	50.31	5.8	0.85	31.54	-	-	Peak
69.15	32.35	-7.65	40	57.21	5.74	0.9	31.5	131	228	Peak
135.3	28.06	-15.44	43.5	47.55	10.77	1.25	31.51	-	-	Peak
340.6	18.54	-27.46	46	34.74	13.22	1.88	31.3	-	-	Peak
613.6	21.19	-24.81	46	30.78	18.78	2.47	30.84	-	-	Peak
801.2	23.82	-22.18	46	30.5	21.03	2.83	30.54	-	-	Peak
2390	41.95	-12.05	54	39.43	32.02	4.58	34.08	100	4	Average
2390	60.94	-13.06	74	58.42	32.02	4.58	34.08	100	4	Peak
2422	85.58	-	-	83.03	32.04	4.59	34.08	100	4	Average
2422	95.93	-	-	93.38	32.04	4.59	34.08	100	4	Peak
2484	32.64	-21.36	54	29.99	32.09	4.64	34.08	100	4	Average
2484	45.39	-28.61	74	42.74	32.09	4.64	34.08	100	4	Peak

Test Mode :	Mode 14	Temperature :	21~26°C
Test Channel :	09	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	2452 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.35	17.13	-22.87	40	30.19	17.78	0.71	31.55	100	291	Peak
153.93	15.92	-27.58	43.5	36.12	10	1.3	31.5	-	-	Peak
294.06	21.5	-24.5	46	38.93	12.1	1.77	31.3	-	-	Peak
323.8	22.92	-23.08	46	39.58	12.79	1.84	31.29	-	-	Peak
640.2	20.24	-25.76	46	29.58	18.89	2.56	30.79	-	-	Peak
773.2	21.87	-24.13	46	29.11	20.51	2.79	30.54	-	-	Peak
2352	32.71	-21.29	54	30.26	31.99	4.55	34.09	195	355	Average
2352	45.42	-28.58	74	42.97	31.99	4.55	34.09	195	355	Peak
2452	86.5	-	-	83.91	32.06	4.61	34.08	195	355	Average
2452	97.68	-	-	95.09	32.06	4.61	34.08	195	355	Peak
2484.08	47.68	-6.32	54	45.03	32.09	4.64	34.08	195	355	Average
2484.08	65.74	-8.26	74	63.09	32.09	4.64	34.08	195	355	Peak

Test Mode :	Mode 14	Temperature :	21~26°C
Test Channel :	09	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	2452 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.08	26.53	-13.47	40	39.59	17.78	0.71	31.55	-	-	Peak
68.88	31.81	-8.19	40	56.67	5.74	0.9	31.5	151	346	Peak
135.3	29.14	-14.36	43.5	48.63	10.77	1.25	31.51	-	-	Peak
321	17.33	-28.67	46	34.07	12.72	1.83	31.29	-	-	Peak
549.9	19.78	-26.22	46	30.51	17.89	2.33	30.95	-	-	Peak
742.4	23.08	-22.92	46	31	19.92	2.73	30.57	-	-	Peak
2362	32.78	-21.22	54	30.3	31.99	4.57	34.08	116	6	Average
2362	45.47	-28.53	74	42.99	31.99	4.57	34.08	116	6	Peak
2452	86.36	-	-	83.77	32.06	4.61	34.08	116	6	Average
2452	96.93	-	-	94.34	32.06	4.61	34.08	116	6	Peak
2484.61	46.64	-7.36	54	43.99	32.09	4.64	34.08	116	6	Average
2484.61	63.2	-10.8	74	60.55	32.09	4.64	34.08	116	6	Peak

Test Mode :	Mode 15	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.89	17.98	-22.02	40	31.59	17.21	0.72	31.54	-	-	Peak
154.47	19.93	-23.57	43.5	40.13	10	1.3	31.5	-	-	Peak
289.2	21.52	-24.48	46	39.05	12.05	1.75	31.33	-	-	Peak
387.5	25.02	-20.98	46	39.79	14.46	1.98	31.21	-	-	Peak
743.1	25.35	-20.65	46	33.23	19.94	2.74	30.56	106	117	Peak
999.3	26.73	-27.27	54	29.61	24.07	3.25	30.2	-	-	Peak
5725	70.79	-10.23	81.02	62.15	34.66	7.17	33.19	135	134	Peak
5745	91.45	-	-	82.76	34.69	7.19	33.19	135	134	Average
5745	101.02	-	-	92.33	34.69	7.19	33.19	135	134	Peak
5850	52.21	-28.81	81.02	43.27	34.85	7.29	33.2	135	134	Peak

Test Mode :	Mode 15	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.15	32.02	-7.98	40	56.88	5.74	0.9	31.5	125	201	Peak
132.6	28.76	-14.74	43.5	48.22	10.82	1.24	31.52	-	-	Peak
154.74	30.59	-12.91	43.5	50.84	9.94	1.31	31.5	-	-	Peak
325.2	20.31	-25.69	46	36.94	12.82	1.84	31.29	-	-	Peak
600.3	29.31	-16.69	46	39.04	18.72	2.42	30.87	-	-	Peak
996.5	27.56	-26.44	54	30.54	24	3.24	30.22	-	-	Peak
5725	76.41	-11.95	88.36	67.77	34.66	7.17	33.19	100	140	Peak
5745	98.39	-	-	89.7	34.69	7.19	33.19	100	140	Average
5745	108.36	-	-	99.67	34.69	7.19	33.19	100	140	Peak
5850	51.72	-36.64	88.36	42.78	34.85	7.29	33.2	100	140	Peak

Test Mode :	Mode 16	Temperature :	21~26°C
Test Channel :	157	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5785 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.08	18.69	-21.31	40	31.75	17.78	0.71	31.55	-	-	Peak
215.76	21.66	-21.84	43.5	42.31	9.3	1.53	31.48	-	-	Peak
288.12	22.99	-23.01	46	40.53	12.04	1.75	31.33	-	-	Peak
319.6	25.27	-20.73	46	42.04	12.69	1.83	31.29	100	162	Peak
387.5	25.01	-20.99	46	39.78	14.46	1.98	31.21	-	-	Peak
678	20.91	-25.09	46	29.98	19.05	2.62	30.74	-	-	Peak
5725	51.83	-28.53	80.36	43.19	34.66	7.17	33.19	112	96	Peak
5785	90.63	-	-	81.86	34.74	7.22	33.19	112	96	Average
5785	100.36	-	-	91.59	34.74	7.22	33.19	112	96	Peak
5850	52.16	-28.2	80.36	43.22	34.85	7.29	33.2	112	96	Peak

Test Mode :	Mode 16	Temperature :	21~26°C
Test Channel :	157	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5785 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.35	25.17	-14.83	40	38.23	17.78	0.71	31.55	-	-	Peak
69.15	31.46	-8.54	40	56.32	5.74	0.9	31.5	141	59	Peak
153.66	32.92	-10.58	43.5	53.07	10.06	1.29	31.5	-	-	Peak
351.8	20.36	-25.64	46	36.24	13.52	1.9	31.3	-	-	Peak
599.6	31.69	-14.31	46	41.44	18.7	2.42	30.87	-	-	Peak
818.7	23.08	-22.92	46	29.59	21.16	2.86	30.53	-	-	Peak
5725	51.69	-36.99	88.68	43.05	34.66	7.17	33.19	100	142	Peak
5785	98.89	-	-	90.12	34.74	7.22	33.19	100	142	Average
5785	108.68	-	-	99.91	34.74	7.22	33.19	100	142	Peak
5850	55.11	-33.57	88.68	46.17	34.85	7.29	33.2	100	142	Peak

Test Mode :	Mode 17	Temperature :	21~26°C
Test Channel :	165	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5825 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	20.49	-19.51	40	32.99	18.36	0.7	31.56	100	69	Peak
153.39	21.48	-22.02	43.5	41.63	10.06	1.29	31.5	-	-	Peak
296.22	23	-23	46	40.4	12.12	1.77	31.29	-	-	Peak
351.8	23.89	-22.11	46	39.77	13.52	1.9	31.3	-	-	Peak
511.4	18.75	-27.25	46	30.29	17.26	2.25	31.05	-	-	Peak
678.7	21.7	-24.3	46	30.77	19.05	2.62	30.74	-	-	Peak
5725	50.9	-29.65	80.55	42.26	34.66	7.17	33.19	101	105	Peak
5825	90.85	-	-	81.96	34.82	7.27	33.2	101	105	Average
5825	100.55	-	-	91.66	34.82	7.27	33.2	101	105	Peak
5850	63.75	-16.8	80.55	54.81	34.85	7.29	33.2	101	105	Peak

Test Mode :	Mode 17	Temperature :	21~26°C
Test Channel :	165	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5825 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.69	31.52	-8.48	40	56.32	5.79	0.91	31.5	129	227	Peak
155.01	33.08	-10.42	43.5	53.33	9.94	1.31	31.5	-	-	Peak
232.5	22.3	-23.7	46	41.76	10.45	1.59	31.5	-	-	Peak
585.6	20.69	-25.31	46	30.71	18.48	2.39	30.89	-	-	Peak
751.5	22.41	-23.59	46	30.09	20.11	2.75	30.54	-	-	Peak
969.9	25.56	-28.44	54	29.35	23.39	3.14	30.32	-	-	Peak
5725	51.35	-37.51	88.86	42.71	34.66	7.17	33.19	100	143	Peak
5825	98.99	-	-	90.1	34.82	7.27	33.2	100	143	Average
5825	108.86	-	-	99.97	34.82	7.27	33.2	100	143	Peak
5850	70.81	-18.05	88.86	61.87	34.85	7.29	33.2	100	143	Peak

Test Mode :	Mode 18	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	70.1	-12.3	82.4	61.46	34.66	7.17	33.19	101	280	Peak
5745	92.69	-	-	84	34.69	7.19	33.19	101	280	Average
5745	102.4	-	-	93.71	34.69	7.19	33.19	101	280	Peak
5850	51.24	-31.16	82.4	42.3	34.85	7.29	33.2	101	280	Peak

Test Mode :	Mode 18	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	77.27	-11.19	88.46	68.63	34.66	7.17	33.19	100	238	Peak
5745	98.64	-	-	89.95	34.69	7.19	33.19	100	238	Average
5745	108.46	-	-	99.77	34.69	7.19	33.19	100	238	Peak
5850	51.81	-36.65	88.46	42.87	34.85	7.29	33.2	100	238	Peak

Test Mode :	Mode 19	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	19.67	-20.33	40	32.17	18.36	0.7	31.56	120	154	Peak
153.66	21.53	-21.97	43.5	41.68	10.06	1.29	31.5	-	-	Peak
215.76	22.11	-21.39	43.5	42.76	9.3	1.53	31.48	-	-	Peak
367.9	24.08	-21.92	46	39.47	13.93	1.94	31.26	-	-	Peak
610.8	19.84	-26.16	46	29.47	18.76	2.46	30.85	-	-	Peak
841.1	23.87	-22.13	46	30.15	21.33	2.9	30.51	-	-	Peak
5725	73.57	-7.13	80.7	64.93	34.66	7.17	33.19	135	138	Peak
5745	91.2	-	-	82.51	34.69	7.19	33.19	135	138	Average
5745	100.7	-	-	92.01	34.69	7.19	33.19	135	138	Peak
5850	50.81	-29.89	80.7	41.87	34.85	7.29	33.2	135	138	Peak

Test Mode :	Mode 19	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.42	31.05	-8.95	40	55.85	5.79	0.91	31.5	133	302	Peak
153.93	33.15	-10.35	43.5	53.35	10	1.3	31.5	-	-	Peak
224.94	27.8	-18.2	46	47.82	9.91	1.56	31.49	-	-	Peak
327.3	19.64	-26.36	46	36.22	12.87	1.84	31.29	-	-	Peak
700.4	24.66	-21.34	46	33.59	19.14	2.65	30.72	-	-	Peak
999.3	28.64	-25.36	54	31.52	24.07	3.25	30.2	-	-	Peak
5725	79.44	-8.43	87.87	70.8	34.66	7.17	33.19	100	142	Peak
5745	97.51	-	-	88.82	34.69	7.19	33.19	100	142	Average
5745	107.87	-	-	99.18	34.69	7.19	33.19	100	142	Peak
5850	51.61	-36.26	87.87	42.67	34.85	7.29	33.2	100	142	Peak

Test Mode :	Mode 20	Temperature :	21~26°C
Test Channel :	157	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5785 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
153.66	21.12	-22.38	43.5	41.27	10.06	1.29	31.5	-	-	Peak
224.94	23.11	-22.89	46	43.13	9.91	1.56	31.49	-	-	Peak
280.02	21.78	-24.22	46	39.45	11.97	1.73	31.37	-	-	Peak
367.9	26.13	-19.87	46	41.52	13.93	1.94	31.26	100	202	Peak
743.1	24.68	-21.32	46	32.56	19.94	2.74	30.56	-	-	Peak
974.1	25.24	-28.76	54	28.91	23.48	3.15	30.3	-	-	Peak
5725	51.36	-28.5	79.86	42.72	34.66	7.17	33.19	136	99	Peak
5785	89.99	-	-	81.22	34.74	7.22	33.19	136	99	Average
5785	99.86	-	-	91.09	34.74	7.22	33.19	136	99	Peak
5850	51.11	-28.75	79.86	42.17	34.85	7.29	33.2	136	99	Peak

Test Mode :	Mode 20	Temperature :	21~26°C
Test Channel :	157	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5785 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
54.03	24.55	-15.45	40	48.48	6.77	0.83	31.53	-	-	Peak
69.69	32.23	-7.77	40	57.03	5.79	0.91	31.5	133	100	Peak
155.28	32.91	-10.59	43.5	53.16	9.94	1.31	31.5	-	-	Peak
500.2	18.19	-27.81	46	29.96	17.08	2.23	31.08	-	-	Peak
678	20.85	-25.15	46	29.92	19.05	2.62	30.74	-	-	Peak
840.4	23.74	-22.26	46	30.03	21.32	2.9	30.51	-	-	Peak
5725	54.17	-34.3	88.47	45.53	34.66	7.17	33.19	100	142	Peak
5785	98.34	-	-	89.57	34.74	7.22	33.19	100	142	Average
5785	108.47	-	-	99.7	34.74	7.22	33.19	100	142	Peak
5850	54.26	-34.21	88.47	45.32	34.85	7.29	33.2	100	142	Peak

Test Mode :	Mode 21	Temperature :	21~26°C
Test Channel :	165	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5825 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	19.84	-20.16	40	32.34	18.36	0.7	31.56	109	135	Peak
153.39	19.88	-23.62	43.5	40.03	10.06	1.29	31.5	-	-	Peak
293.52	22.29	-23.71	46	39.72	12.1	1.77	31.3	-	-	Peak
327.3	22.45	-23.55	46	39.03	12.87	1.84	31.29	-	-	Peak
387.5	24.15	-21.85	46	38.92	14.46	1.98	31.21	-	-	Peak
678.7	24.11	-21.89	46	33.18	19.05	2.62	30.74	-	-	Peak
5725	51.1	-29.45	80.55	42.46	34.66	7.17	33.19	112	100	Peak
5825	90.82	-	-	81.93	34.82	7.27	33.2	112	100	Average
5825	100.55	-	-	91.66	34.82	7.27	33.2	112	100	Peak
5850	65.43	-15.12	80.55	56.49	34.85	7.29	33.2	112	100	Peak

Test Mode :	Mode 21	Temperature :	21~26°C
Test Channel :	165	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5825 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	25.67	-14.33	40	38.17	18.36	0.7	31.56	-	-	Peak
69.42	31.96	-8.04	40	56.76	5.79	0.91	31.5	161	219	Peak
156.09	32.91	-10.59	43.5	53.21	9.88	1.32	31.5	-	-	Peak
330.1	18.31	-27.69	46	34.81	12.94	1.85	31.29	-	-	Peak
766.9	22.56	-23.44	46	29.92	20.4	2.78	30.54	-	-	Peak
996.5	26.01	-27.99	54	28.99	24	3.24	30.22	-	-	Peak
5725	52.43	-36.17	88.6	43.79	34.66	7.17	33.19	100	145	Peak
5825	98.6	-	-	89.71	34.82	7.27	33.2	100	145	Average
5825	108.6	-	-	99.71	34.82	7.27	33.2	100	145	Peak
5850	78.16	-10.44	88.6	69.22	34.85	7.29	33.2	100	145	Peak

Test Mode :	Mode 22	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	73.51	-8.67	82.18	64.87	34.66	7.17	33.19	126	280	Peak
5745	91.76	-	-	83.07	34.69	7.19	33.19	126	280	Average
5745	102.18	-	-	93.49	34.69	7.19	33.19	126	280	Peak
5850	51.78	-30.4	82.18	42.84	34.85	7.29	33.2	126	280	Peak

Test Mode :	Mode 22	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	78.73	-8.85	87.58	70.09	34.66	7.17	33.19	100	237	Peak
5745	97.53	-	-	88.84	34.69	7.19	33.19	100	237	Average
5745	107.58	-	-	98.89	34.69	7.19	33.19	100	237	Peak
5850	51.91	-35.67	87.58	42.97	34.85	7.29	33.2	100	237	Peak

Test Mode :	Mode 23	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
33.78	17.45	-22.55	40	32.19	16.06	0.73	31.53	-	-	Peak
193.89	14.67	-28.83	43.5	36.42	8.27	1.45	31.47	-	-	Peak
289.47	22.67	-23.33	46	40.2	12.05	1.75	31.33	-	-	Peak
387.5	24.36	-21.64	46	39.13	14.46	1.98	31.21	-	-	Peak
743.1	26.55	-19.45	46	34.43	19.94	2.74	30.56	100	334	Peak
927.9	24.22	-21.78	46	29.18	22.43	3.04	30.43	-	-	Peak
5725	56.39	-19.93	76.32	47.75	34.66	7.17	33.19	100	293	Peak
5745	83.81	-	-	75.12	34.69	7.19	33.19	100	293	Average
5745	96.32	-	-	87.63	34.69	7.19	33.19	100	293	Peak
5850	50	-26.32	76.32	41.06	34.85	7.29	33.2	100	293	Peak

Test Mode :	Mode 23	Temperature :	21~26°C
Test Channel :	149	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5745 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
55.11	23.66	-16.34	40	47.82	6.53	0.83	31.52	-	-	Peak
69.42	31.86	-8.14	40	56.66	5.79	0.91	31.5	163	234	Peak
139.35	29.06	-14.44	43.5	48.6	10.7	1.27	31.51	-	-	Peak
328	19.77	-26.23	46	36.32	12.89	1.85	31.29	-	-	Peak
537.3	18.93	-27.07	46	29.92	17.69	2.3	30.98	-	-	Peak
785.1	22.13	-23.87	46	29.13	20.73	2.81	30.54	-	-	Peak
5725	62.73	-20.72	83.45	54.09	34.66	7.17	33.19	100	146	Peak
5745	91.49	-	-	82.8	34.69	7.19	33.19	100	146	Average
5745	103.45	-	-	94.76	34.69	7.19	33.19	100	146	Peak
5850	50.69	-32.76	83.45	41.75	34.85	7.29	33.2	100	146	Peak

Test Mode :	Mode 24	Temperature :	21~26°C
Test Channel :	151	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5755 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.54	18.13	-21.87	40	31.19	17.78	0.71	31.55	-	-	Peak
169.59	15.9	-27.6	43.5	37.1	8.99	1.36	31.55	-	-	Peak
293.52	21.34	-24.66	46	38.77	12.1	1.77	31.3	-	-	Peak
387.5	23.6	-22.4	46	38.37	14.46	1.98	31.21	-	-	Peak
678.7	25.65	-20.35	46	34.72	19.05	2.62	30.74	100	185	Peak
743.1	25.12	-20.88	46	33	19.94	2.74	30.56	-	-	Peak
5725	69.12	-7.9	77.02	60.48	34.66	7.17	33.19	126	103	Peak
5755	86.84	-	-	78.13	34.71	7.19	33.19	126	103	Average
5755	97.02	-	-	88.31	34.71	7.19	33.19	126	103	Peak
5850	50.69	-26.33	77.02	41.75	34.85	7.29	33.2	126	103	Peak

Test Mode :	Mode 24	Temperature :	21~26°C
Test Channel :	151	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5755 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.54	26.22	-13.78	40	39.28	17.78	0.71	31.55	-	-	Peak
69.15	31.77	-8.23	40	56.63	5.74	0.9	31.5	117	242	Peak
135.84	28.55	-14.95	43.5	48.04	10.77	1.25	31.51	-	-	Peak
463.8	17.92	-28.08	46	30.66	16.23	2.16	31.13	-	-	Peak
623.4	20.71	-25.29	46	30.21	18.82	2.5	30.82	-	-	Peak
985.3	25.66	-28.34	54	28.97	23.75	3.2	30.26	-	-	Peak
5725	76.02	-8.87	84.89	67.38	34.66	7.17	33.19	100	144	Peak
5755	94.13	-	-	85.42	34.71	7.19	33.19	100	144	Average
5755	104.89	-	-	96.18	34.71	7.19	33.19	100	144	Peak
5850	51.57	-33.32	84.89	42.63	34.85	7.29	33.2	100	144	Peak

Test Mode :	Mode 25	Temperature :	21~26°C
Test Channel :	159	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Horizontal
Remark :	5795 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
34.59	17.4	-22.6	40	32.7	15.48	0.74	31.52	-	-	Peak
135.03	14	-29.5	43.5	33.47	10.79	1.25	31.51	-	-	Peak
291.63	22.08	-23.92	46	39.55	12.08	1.76	31.31	-	-	Peak
322.4	22.69	-23.31	46	39.41	12.74	1.83	31.29	-	-	Peak
387.5	23.9	-22.1	46	38.67	14.46	1.98	31.21	-	-	Peak
742.4	24.68	-21.32	46	32.6	19.92	2.73	30.57	182	43	Peak
5725	51.35	-27.38	78.73	42.71	34.66	7.17	33.19	114	108	Peak
5795	88.14	-	-	79.32	34.77	7.24	33.19	114	108	Average
5795	98.73	-	-	89.91	34.77	7.24	33.19	114	108	Peak
5850	58.46	-20.27	78.73	49.52	34.85	7.29	33.2	114	108	Peak

Test Mode :	Mode 25	Temperature :	21~26°C
Test Channel :	159	Relative Humidity :	53~58%
Test Engineer :	Wii Chang	Polarization :	Vertical
Remark :	5795 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
69.42	31.52	-8.48	40	56.32	5.79	0.91	31.5	144	217	Peak
139.35	28.86	-14.64	43.5	48.4	10.7	1.27	31.51	-	-	Peak
153.12	24.4	-19.1	43.5	44.55	10.06	1.29	31.5	-	-	Peak
328	18.58	-27.42	46	35.13	12.89	1.85	31.29	-	-	Peak
712.3	22.06	-23.94	46	30.71	19.36	2.67	30.68	-	-	Peak
973.4	26.6	-27.4	54	30.27	23.48	3.15	30.3	-	-	Peak
5725	55.36	-30.8	86.16	46.72	34.66	7.17	33.19	100	145	Peak
5795	95.38	-	-	86.56	34.77	7.24	33.19	100	145	Average
5795	106.16	-	-	97.34	34.77	7.24	33.19	100	145	Peak
5850	66.49	-19.67	86.16	57.55	34.85	7.29	33.2	100	145	Peak

3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.4.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna with HRS connector and it is considered to meet antenna requirement.

3.4.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 18, 2011	Nov. 29, 2011	Sep. 17, 2012	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 18, 2011	Nov. 29, 2011	Sep. 17, 2012	Conducted (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 18, 2011	Nov. 29, 2011	Feb. 17, 2012	Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 18, 2011	Nov. 29, 2011	Feb. 17, 2012	Conducted (TH02-HY)
EMI Test Receive	R&S	ESCI 7	100724	9kHz~7GHz	Aug. 22, 2011	Nov. 29, 2011	Aug. 21, 2012	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9KHz – 30MHz	Dec. 03, 2010	Nov. 29, 2011	Dec. 02, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9KHz – 30MHz	Dec. 01, 2010	Nov. 29, 2011	Nov. 30, 2011	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Nov. 29, 2011	N/A	Conduction (CO05-HY)
Spectrum Analyzer	R&S	FSP30	101352	9KHz-30GHz	Nov. 03, 2011	Nov. 22, 2011	Nov. 02, 2012	Radiation (03CH05-HY)
COM-POWER	Double Ridge Horn	AH-118	701030	1GHz~18GHz	N/A	Nov. 22, 2011	N/A	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30MHz ~ 1GHz	Oct. 22, 2011	Nov. 22, 2011	Oct. 21, 2012	Radiation (03CH05-HY)
Turn Table	HD	Deis HD 2000	420/611	0 - 360 degree	N/A	Nov. 22, 2011	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	MA 240	240/666	1 m - 4 m	N/A	Nov. 22, 2011	N/A	Radiation (03CH05-HY)
Horn Antenna	ESCO	3117	66584	1GHz ~ 18GHz	Aug. 04, 2011	Nov. 22, 2011	Aug. 03, 2012	Radiation (03CH05-HY)
COM-POWER	COM-POWER	PA-103	161075	1KHz - 1GHz	Mar. 29, 2011	Nov. 22, 2011	Mar. 28, 2012	Radiation (03CH05-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz~18GHz	Jul. 19, 2011	Nov. 22, 2011	Jul. 18, 2012	Radiation (03CH05-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	159087	1GHz~18GHz	Feb. 21, 2011	Nov. 22, 2011	Feb. 20, 2012	Radiation (03CH05-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Apr. 14, 2011	Nov. 22, 2011	Apr. 13, 2012	Radiation (03CH05-HY)

5 Uncertainty of Evaluation

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

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty Uc(y)	**1.13**		
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.26**		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty Uc(y)	**1.27**		
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.54**		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR Γ1 = 0.197 Antenna VSWR Γ2 = 0.194 Uncertainty = 20Log(1-Γ1*Γ2)	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty Uc(y)	**2.36**				
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.72**				

Appendix A. Photographs of EUT

Please refer to Sporton report number EP1N0901 as below.