FCC/IC RF Test Report

APPLICANT	**:**	**Kilpatrick LLC**
EQUIPMENT	**:**	**Tablet PC**
MODEL NAME	**:**	**C9R6QM**
FCC ID	**:**	**S2F-8560**
IC	**:**	**10888A-8560**
STANDARD	**:**	**FCC Part 15 Subpart C §15.247** **IC RSS-210 issue 8**
CLASSIFICATION	**:**	**(DTS) Digital Transmission System**

The product was completely tested on Aug. 06, 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

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
FR332726-04B	Rev. 01	Initial issue of report	Aug. 21, 2013
FR332726-04B	Rev. 02	Update report for revising test date	Aug. 30, 2013

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.59 dB at 2483.500 MHz

1 General Description

1.1 Applicant

Kilpatrick LLC
102 S. Tejon Street
Suite 1100
Colorado Springs, Colorado 80903

1.2 Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Model Name	C9R6QM
FCC ID	S2F-8560
IC	10888A-8560
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 Bluetooth v3.0

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

1.3 Product Specification of Equipment Under Test

<table>
<tr><th colspan="2">Product Specification subjective to this standard</th></tr>
<tr><td>Tx/Rx Channel Frequency Range</td><td>802.11b/g/n : 2412 MHz ~ 2462 MHz
802.11a/n: 5745~5825MHz.</td></tr>
<tr><td>Antenna Type</td><td><Main Antenna>
802.11b/g/n : Fixed internal Antenna with gain 4.10 dBi
802.11a/n : Fixed internal Antenna with gain 3.20 dBi
<Aux. Antenna>
802.11b/g/n : Fixed internal Antenna with gain 1.10 dBi
802.11a/n : Fixed internal Antenna with gain 1.60 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11b : DSSS (DBPSK / DQPSK / CCK)
802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)</td></tr>
<tr><td>Antenna Function for Transmitter</td><td>
<table>
<tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr>
<tr><td>802.11 b MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 g MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 a MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n MIMO</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

1.4 Modification of EUT

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

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.
	TH02-HY	CO05-HY	03CH08-HY	636805/4086B-1

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

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 D01 DTS Meas. Guidance v03r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02.
- ANSI C63.4-2003
- IC RSS-210 Issue 8
- IC RSS-Gen Issue 3
- NOTICE 2012-DRS0126

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.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.

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: 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 (X plane for 2.4G and Y plane for 5G) 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.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4	149	5745	159	5795
	151	5755	161	5805
	153	5765	165	5825
	157	5785	-	-

2.2 Test Mode

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

<2.4GHz>

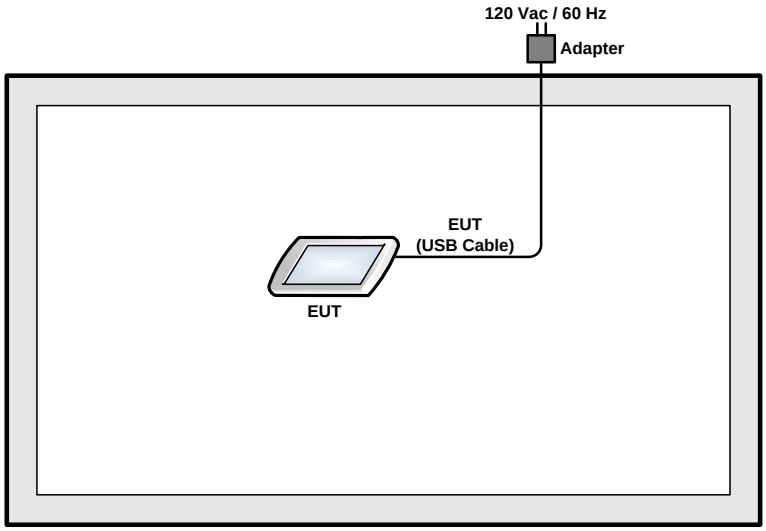
Test Cases				
Radiated TCs	Radiated Band Edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/2/10/11
		802.11n HT20	MSC0	1/2/10/11
	Radiated Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/2/6/10/11
		802.11n HT20	MSC0	1/2/6/10/11

<5GHz>

Test Cases				
Radiated TCs	Radiated Band Edge	802.11a	6 Mbps	149/165
		802.11n HT20	MSC0	149/165
		802.11n HT40	MSC0	151/159
	Radiated Spurious Emission	802.11a	6 Mbps	149/157/165
		802.11n HT20	MSC0	149/157/165
		802.11n HT40	MSC0	151/159

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



2.4 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.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	iPod Earphone	Apple	N/A	FCC DoC	Unshielded, 1.0 m	N/A
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
8.	Adapter	Foxlink	PE98ED	Verification	N/A	N/A

2.5 Description of RF Function Operation Test Setup

The programmed RF utility “ADB”, 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.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

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

3.1.2 Measuring Instruments

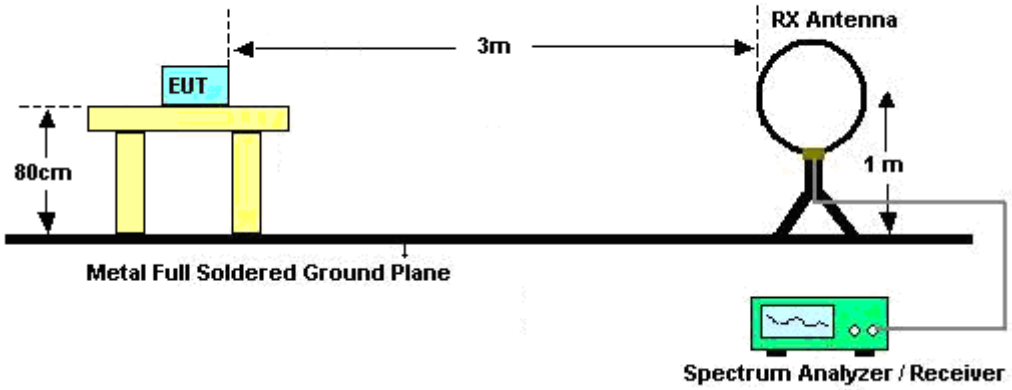
See list of measuring instruments of this test report.

3.1.3 Test Procedure

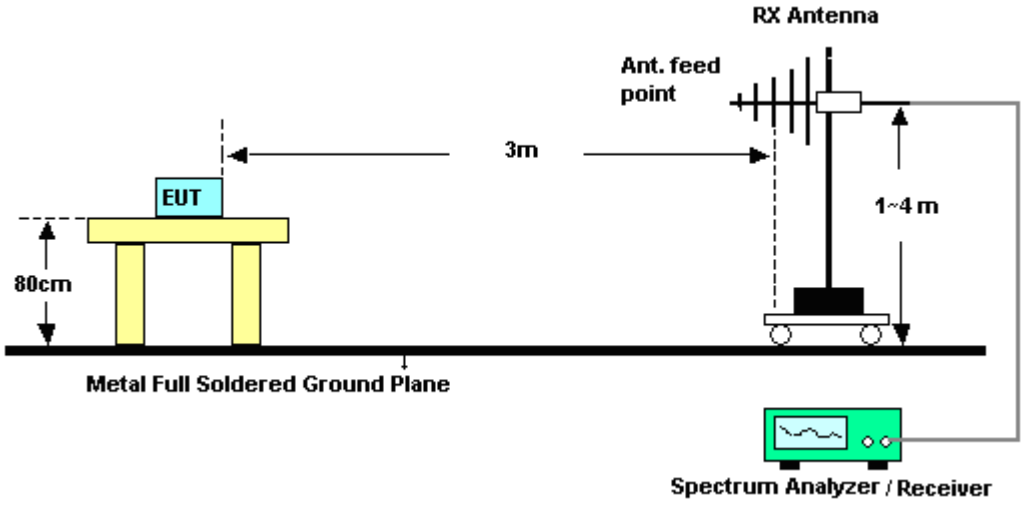
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.
   - For 11b mode, the VBW is set to 10Hz ; For 11g, and HT20 modes, the VBW are set to 1KHz; For 11a, and HT20 are set to 10Hz, and HT40 is set to 3KHz.

3.1.4 Test Setup

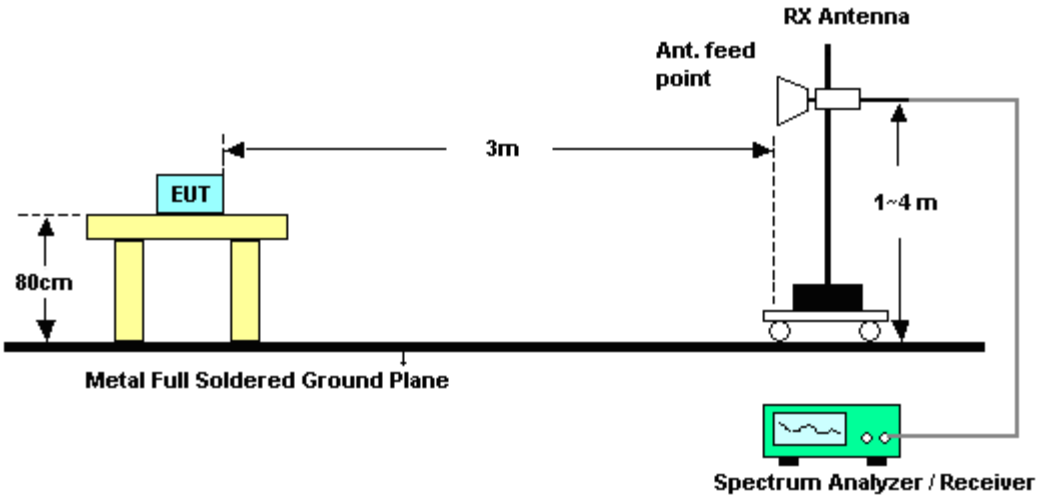
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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 Spurious at Band Edges

Test Mode :	802.11b	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	01	Test Engineer :	David Ke

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
2388.3	64.76	-9.24	74	62.19	32.27	6.22	35.92	117	331	Peak
2387.31	53.39	-0.61	54	50.82	32.27	6.22	35.92	117	331	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
2389.2	60.96	-13.04	74	58.6	32.06	6.22	35.92	186	346	Peak
2387.49	47.87	-6.13	54	45.51	32.06	6.22	35.92	186	346	Average

Test Mode :	802.11b	Temperature :	21~23°C
Test Band :	High	Relative Humidity :	51~53%
Test Channel :	11	Test Engineer :	David Ke

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
2484.28	66.67	-7.33	74	63.42	32.63	6.45	35.83	144	338	Peak
2486.41	49.23	-4.77	54	45.98	32.63	6.45	35.83	144	338	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
2486.62	58.87	-15.13	74	55.66	32.59	6.45	35.83	109	303	Peak
2487.19	45.57	-8.43	54	42.36	32.59	6.45	35.83	109	303	Average

Test Mode :	802.11g	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	01	Test Engineer :	David Ke

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
2390	68.84	-5.16	74	66.25	32.27	6.22	35.9	117	335	Peak
2390	52.76	-1.24	54	50.17	32.27	6.22	35.9	117	335	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
2390	63.99	-10.01	74	61.61	32.06	6.22	35.9	186	0	Peak
2390	48.59	-5.41	54	46.21	32.06	6.22	35.9	186	0	Average

Test Mode :	802.11g	Temperature :	21~23°C
Test Band :	--	Relative Humidity :	51~53%
Test Channel :	02	Test Engineer :	David Ke

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
2389.29	69.64	-4.36	74	67.07	32.27	6.22	35.92	181	360	Peak
2390	53.03	-0.97	54	50.44	32.27	6.22	35.9	181	360	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
2388.75	64.42	-9.58	74	62.06	32.06	6.22	35.92	179	0	Peak
2388.93	48.61	-5.39	54	46.25	32.06	6.22	35.92	179	0	Average

Test Mode :	802.11g	Temperature :	21~23°C
Test Band :	--	Relative Humidity :	51~53%
Test Channel :	10	Test Engineer :	David Ke

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
2484.46	69.74	-4.26	74	66.49	32.63	6.45	35.83	112	351	Peak
2483.53	53.23	-0.77	54	49.98	32.63	6.45	35.83	112	351	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
2483.5	66.96	-7.04	74	63.75	32.59	6.45	35.83	177	6	Peak
2483.53	51.31	-2.69	54	48.1	32.59	6.45	35.83	177	6	Average

Test Mode :	802.11g	Temperature :	21~23°C
Test Band :	High	Relative Humidity :	51~53%
Test Channel :	11	Test Engineer :	David Ke

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
2483.5	69.9	-4.1	74	66.65	32.63	6.45	35.83	142	340	Peak
2483.5	53.41	-0.59	54	50.16	32.63	6.45	35.83	142	340	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
2483.59	63.61	-10.39	74	60.4	32.59	6.45	35.83	180	352	Peak
2483.56	49.35	-4.65	54	46.14	32.59	6.45	35.83	180	352	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	01	Test Engineer :	David Ke

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
2388.84	67.56	-6.44	74	64.99	32.27	6.22	35.92	117	337	Peak
2390	53.33	-0.67	54	50.74	32.27	6.22	35.9	117	337	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
2390	64.01	-9.99	74	61.63	32.06	6.22	35.9	180	42	Peak
2390	49.08	-4.92	54	46.7	32.06	6.22	35.9	180	42	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	--	Relative Humidity :	51~53%
Test Channel :	02	Test Engineer :	David Ke

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
2389.65	67.62	-6.38	74	65.05	32.27	6.22	35.92	110	357	Peak
2390	52.71	-1.29	54	50.12	32.27	6.22	35.9	110	357	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
2387.31	64.09	-9.91	74	61.73	32.06	6.22	35.92	183	9	Peak
2390	48.82	-5.18	54	46.44	32.06	6.22	35.9	183	9	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	--	Relative Humidity :	51~53%
Test Channel :	10	Test Engineer :	David Ke

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
2483.59	68.06	-5.94	74	64.81	32.63	6.45	35.83	113	360	Peak
2485.6	53.1	-0.9	54	49.85	32.63	6.45	35.83	113	360	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
2483.53	67.15	-6.85	74	63.94	32.59	6.45	35.83	179	6	Peak
2483.5	51.69	-2.31	54	48.48	32.59	6.45	35.83	179	6	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	High	Relative Humidity :	51~53%
Test Channel :	11	Test Engineer :	David Ke

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
2484.34	68.13	-5.87	74	64.88	32.63	6.45	35.83	119	359	Peak
2483.56	53.02	-0.98	54	49.77	32.63	6.45	35.83	119	359	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
2483.5	66.26	-7.74	74	63.05	32.59	6.45	35.83	142	41	Peak
2483.59	51.56	-2.44	54	48.35	32.59	6.45	35.83	142	41	Average

Test Mode :	802.11a	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	149	Test Engineer :	David Ke

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	72.61	-14.52	87.13	63.74	34.69	9.07	34.89	105	243	Peak
5747	94.94	-	-	86.04	34.7	9.1	34.9	105	243	Average
5747	107.13	-	-	98.23	34.7	9.1	34.9	105	243	Peak

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	71.94	-15.17	87.11	63.07	34.69	9.07	34.89	100	268	Peak
5745	93.78	-	-	84.88	34.7	9.1	34.9	100	268	Average
5745	107.11	-	-	98.21	34.7	9.1	34.9	100	268	Peak

Remark: 5725 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. For example, 107.13dBµV/m - 20dB = 87.13dBµV/m.

Test Mode :	802.11a	**Temperature :**	21~23°C
Test Band :	High	**Relative Humidity :**	51~53%
Test Channel :	165	**Test Engineer :**	David Ke

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**
5827	93.81	-	-	84.62	34.87	9.25	34.93	105	246	Average
5827	106.8	-	-	97.61	34.87	9.25	34.93	105	246	Peak
5850.8	56.45	-30.35	86.8	47.15	34.9	9.34	34.94	105	246	Peak

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**
5827	92.68	-	-	83.59	34.77	9.25	34.93	160	274	Average
5827	106.04	-	-	96.95	34.77	9.25	34.93	160	274	Peak
5850.32	52.83	-33.21	86.04	43.65	34.78	9.34	34.94	160	274	Peak

Remark: 5850.8 MHz and 5850.32 MHz are not within a restricted band, and its limit line is 20dB below the highest emission level.

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	149	Test Engineer :	David Ke

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	71.1	-16.08	87.18	62.23	34.69	9.07	34.89	105	243	Peak
5747	97.06	-	-	88.16	34.7	9.1	34.9	105	243	Average
5747	107.18	-	-	98.28	34.7	9.1	34.9	105	243	Peak

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	73.47	-13.48	86.95	64.6	34.69	9.07	34.89	110	310	Peak
5747	96.98	-	-	88.08	34.7	9.1	34.9	110	310	Average
5747	106.95	-	-	98.05	34.7	9.1	34.9	110	310	Peak

Remark: 5725 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level.

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Band :	High	Relative Humidity :	51~53%
Test Channel :	165	Test Engineer :	David Ke

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
5827	95.16	-	-	85.97	34.87	9.25	34.93	157	7	Average
5827	105.6	-	-	96.41	34.87	9.25	34.93	157	7	Peak
5850.16	61.98	-23.62	85.6	52.68	34.9	9.34	34.94	157	7	Peak

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
5827	95.11	-	-	86.02	34.77	9.25	34.93	100	339	Average
5827	105.59	-	-	96.5	34.77	9.25	34.93	100	339	Peak
5850.08	60.51	-25.08	85.59	51.33	34.78	9.34	34.94	100	339	Peak

Remark: 5850.16 MHz and 5850.08 MHz are not within a restricted band, and its limit line is 20dB below the highest emission level.

Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Band :	Low	Relative Humidity :	51~53%
Test Channel :	151	Test Engineer :	David Ke

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	73.48	-11.92	85.4	64.61	34.69	9.07	34.89	107	8	Peak
5757	95.41	-	-	86.49	34.73	9.1	34.91	107	8	Average
5757	105.4	-	-	96.48	34.73	9.1	34.91	107	8	Peak
5887.92	51.25	-34.15	85.4	41.69	35	9.52	34.96	107	8	Peak

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	72.61	-11.86	84.47	63.74	34.69	9.07	34.89	101	343	Peak
5757	94.17	-	-	85.27	34.71	9.1	34.91	101	343	Average
5757	104.47	-	-	95.57	34.71	9.1	34.91	101	343	Peak
5855.76	50.94	-33.53	84.47	41.75	34.79	9.34	34.94	101	343	Peak

Remark: 5725 MHz, 5887.92 MHz, and 5855.76 MHz are not within a restricted band, and its limit line is 20dB below the highest emission level.

Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Band :	High	Relative Humidity :	51~53%
Test Channel :	159	Test Engineer :	David Ke

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	48.3	-36.71	85.01	39.43	34.69	9.07	34.89	160	309	Peak
5797	95.58	-	-	86.54	34.8	9.16	34.92	160	309	Average
5797	105.01	-	-	95.97	34.8	9.16	34.92	160	309	Peak
5853.44	51.2	-33.81	85.01	41.9	34.9	9.34	34.94	160	309	Peak

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	48.35	-35.95	84.3	39.48	34.69	9.07	34.89	163	271	Peak
5797	94.43	-	-	85.45	34.74	9.16	34.92	163	271	Average
5797	104.3	-	-	95.32	34.74	9.16	34.92	163	271	Peak
5851.36	51.71	-32.59	84.3	42.53	34.78	9.34	34.94	163	271	Peak

Remark: 5725 MHz, 5853.44 MHz, and 5851.36 MHz are not within a restricted band, and its limit line is 20dB below the highest emission level.

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

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	802.11b	**Temperature :**	21~23°C
Test Channel :	01	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Horizontal
Remark :	1. 2414 MHz is fundamental signal which can be ignored. 2. 3216 MHz and 7236 MHz are not within a restricted band, and its limit line is 20dB below the highest emission level. For example, 116.82dBμV/m - 20dB = 96.82dBμV/m. 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
2414	111.96	-	-	109.24	32.34	6.28	35.9	117	331	Average
2414	116.82	-	-	114.1	32.34	6.28	35.9	117	331	Peak
3216	45.05	-51.77	96.82	63.34	33	7.2	58.49	100	0	Peak
4824	48.05	-25.95	74	64.51	34.44	8.04	58.94	100	0	Peak
7236	46.54	-50.28	96.82	58.78	35.61	10.48	58.33	100	0	Peak

Test Mode :	802.11b	**Temperature :**	21~23°C
Test Channel :	01	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Vertical
Remark :	1. 2414 MHz is fundamental signal which can be ignored. 2. 7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2414	106.75	-	-	104.21	32.16	6.28	35.9	186	346	Average
2414	111.48	-	-	108.94	32.16	6.28	35.9	186	346	Peak
4824	45.65	-28.35	74	62.11	34.44	8.04	58.94	100	0	Peak
7236	46.95	-44.53	91.48	59.2	35.6	10.48	58.33	100	0	Peak

Test Mode :	802.11b	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2439 MHz is fundamental signal which can be ignored. 2. 3249 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2439	112.41	-	-	109.46	32.49	6.34	35.88	116	336	Average
2439	116.94	-	-	113.99	32.49	6.34	35.88	116	336	Peak
3249	45	-51.94	96.94	63.08	33	7.46	58.54	100	0	Peak
4875	47.75	-26.25	74	64.11	34.4	8.11	58.87	100	0	Peak
7311	45.96	-28.04	74	58.33	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11b	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2439 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
2439	105.24	-	-	102.4	32.38	6.34	35.88	184	360	Average
2439	109.79	-	-	106.95	32.38	6.34	35.88	184	360	Peak
4875	46.69	-27.31	74	59.86	34.4	8.11	55.68	100	0	Peak
7311	46.51	-27.49	74	56.76	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11b	Temperature :	21~23°C
Test Channel :	11	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2464 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
2464	110.6	-	-	107.5	32.56	6.39	35.85	144	338	Average
2464	116.27	-	-	113.17	32.56	6.39	35.85	144	338	Peak
4926	49.03	-4.97	54	65.25	34.36	8.22	58.8	100	116	Average
4926	52.48	-21.52	74	68.7	34.36	8.22	58.8	100	116	Peak
7386	43.93	-30.07	74	56.43	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11b	Temperature :	21~23°C
Test Channel :	11	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2464 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
2464	104.97	-	-	101.94	32.49	6.39	35.85	109	303	Average
2464	109.54	-	-	106.51	32.49	6.39	35.85	109	303	Peak
4926	49.19	-24.81	74	62.39	34.36	8.22	55.78	100	0	Peak
7386	46.67	-27.33	74	56.84	35.49	10.45	56.11	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	01	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2414 MHz is fundamental signal which can be ignored. 2. 3216 MHz and 7236 MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 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
2414	100.15	-	-	97.43	32.34	6.28	35.9	117	335	Average
2414	110.64	-	-	107.92	32.34	6.28	35.9	117	335	Peak
3216	45.87	-44.77	90.64	64.16	33	7.2	58.49	100	0	Peak
4824	40.35	-33.65	74	56.81	34.44	8.04	58.94	100	0	Peak
7236	42.07	-48.57	90.64	54.31	35.61	10.48	58.33	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	01	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2410 MHz is fundamental signal which can be ignored. 2. 7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2410	94	-	-	91.46	32.16	6.28	35.9	186	0	Average
2410	104.75	-	-	102.21	32.16	6.28	35.9	186	0	Peak
4824	40.4	-33.6	74	56.86	34.44	8.04	58.94	100	0	Peak
7236	42.87	-41.88	84.75	55.12	35.6	10.48	58.33	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	02	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2415 MHz is fundamental signal which can be ignored. 2. 3222 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2415	104.2	-	-	101.48	32.34	6.28	35.9	181	360	Average
2415	115.1	-	-	112.38	32.34	6.28	35.9	181	360	Peak
3222	47.99	-47.11	95.1	66.17	33	7.33	58.51	100	0	Peak
4833	41.15	-32.85	74	57.58	34.44	8.07	58.94	100	0	Peak
7251	42.37	-31.63	74	54.66	35.6	10.48	58.37	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	02	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2419 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
2419	97.81	-	-	95.25	32.16	6.28	35.88	179	0	Average
2419	108.68	-	-	106.12	32.16	6.28	35.88	179	0	Peak
4833	40.54	-33.46	74	56.97	34.44	8.07	58.94	100	0	Peak
7251	42.48	-31.52	74	54.77	35.6	10.48	58.37	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2440 MHz is fundamental signal which can be ignored. 2. 3249 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2440	107.1	-	-	104.15	32.49	6.34	35.88	116	336	Average
2440	117.86	-	-	114.91	32.49	6.34	35.88	116	336	Peak
3249	45.33	-52.53	97.86	63.41	33	7.46	58.54	100	0	Peak
4875	44.89	-29.11	74	61.25	34.4	8.11	58.87	100	0	Peak
7311	44.29	-29.71	74	56.66	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2436 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
2436	100.84	-	-	98.11	32.27	6.34	35.88	184	360	Average
2436	111.56	-	-	108.83	32.27	6.34	35.88	184	360	Peak
4875	44.39	-29.61	74	57.56	34.4	8.11	55.68	100	0	Peak
7311	46.23	-27.77	74	56.48	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	10	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2460 MHz is fundamental signal which can be ignored. 2. 3276 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2460	105.52	-	-	102.42	32.56	6.39	35.85	112	351	Average
2460	116.03	-	-	112.93	32.56	6.39	35.85	112	351	Peak
3276	47.05	-48.98	96.03	65.08	32.97	7.59	58.59	100	0	Peak
4916	44.32	-29.68	74	60.59	34.37	8.18	58.82	100	0	Peak
7371	43.49	-30.51	74	55.96	35.65	10.46	58.58	100	0	Peak

Test Mode :	802.11g	Temperature :	21~23°C
Test Channel :	10	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2456 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
2456	100.28	-	-	97.25	32.49	6.39	35.85	177	6	Average
2456	110.28	-	-	107.25	32.49	6.39	35.85	177	6	Peak
4914	42.61	-31.39	74	58.88	34.37	8.18	58.82	100	0	Peak
7371	43.04	-30.96	74	55.66	35.5	10.46	58.58	100	0	Peak

Test Mode :	802.11g	**Temperature :**	21~23°C
Test Channel :	11	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Horizontal
Remark :	1. 2464 MHz is fundamental signal which can be ignored. 2. 3282 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
142.05	33.4	-10.1	43.5	53.11	10.71	1.39	31.81	-	-	Peak
185.25	35.61	-7.89	43.5	57.41	8.39	1.59	31.78	100	195	Peak
208.2	35.44	-8.06	43.5	56.73	8.74	1.68	31.71	-	-	Peak
300.7	28.41	-17.59	46	45.04	13.02	2	31.65	-	-	Peak
737.5	25.01	-20.99	46	33.13	19.68	3.12	30.92	-	-	Peak
827.8	25.45	-20.55	46	32.75	20.24	3.32	30.86	-	-	Peak
2464	100.69	-	-	97.59	32.56	6.39	35.85	142	340	Average
2464	111.31	-	-	108.21	32.56	6.39	35.85	142	340	Peak
3282	44.99	-46.32	91.31	63.02	32.97	7.59	58.59	100	0	Peak
4923	41.95	-32.05	74	58.21	34.36	8.18	58.8	100	0	Peak
7386	42.34	-31.66	74	54.84	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11g	**Temperature :**	21~23°C
Test Channel :	11	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Vertical
Remark :	1. 2464 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
66.72	33.93	-6.07	40	59.63	5.27	0.97	31.94	100	204	Peak
188.49	37.18	-6.32	43.5	58.93	8.41	1.6	31.76	-	-	Peak
196.59	36.52	-6.98	43.5	57.49	9.12	1.63	31.72	-	-	Peak
300.7	26.06	-19.94	46	42.48	13.23	2	31.65	-	-	Peak
529.6	20.92	-25.08	46	31.81	17.68	2.67	31.24	-	-	Peak
820.1	25.17	-20.83	46	32.51	20.25	3.3	30.89	-	-	Peak
2464	95.69	-	-	92.66	32.49	6.39	35.85	180	352	Average
2464	105.95	-	-	102.92	32.49	6.39	35.85	180	352	Peak
4923	40.32	-33.68	74	56.58	34.36	8.18	58.8	100	0	Peak
7386	43.4	-30.6	74	56.07	35.49	10.45	58.61	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	01	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2414 MHz is fundamental signal which can be ignored. 2. 3216 MHz and 7236 MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 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
2414	98.57	-	-	95.85	32.34	6.28	35.9	117	337	Average
2414	108.85	-	-	106.13	32.34	6.28	35.9	117	337	Peak
3216	46.62	-42.23	88.85	64.91	33	7.2	58.49	100	0	Peak
4824	40.62	-33.38	74	57.08	34.44	8.04	58.94	100	0	Peak
7236	42.7	-46.15	88.85	54.94	35.61	10.48	58.33	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	01	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2414 MHz is fundamental signal which can be ignored. 2. 7236 MHz is not within a restricted band, and their limit line is 20dB below the highest emission level. 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
2414	93.34	-	-	90.8	32.16	6.28	35.9	180	42	Average
2414	103.38	-	-	100.84	32.16	6.28	35.9	180	42	Peak
4824	41.12	-32.88	74	57.58	34.44	8.04	58.94	100	0	Peak
7236	42.67	-40.71	83.38	54.92	35.6	10.48	58.33	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	02	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2416 MHz is fundamental signal which can be ignored. 2. 3222 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2416	103.98	-	-	101.24	32.34	6.28	35.88	110	357	Average
2416	114.5	-	-	111.76	32.34	6.28	35.88	110	357	Peak
3222	47.23	-47.27	94.5	65.41	33	7.33	58.51	100	0	Peak
4833	41.27	-32.73	74	57.7	34.44	8.07	58.94	100	0	Peak
7251	41.93	-32.07	74	54.22	35.6	10.48	58.37	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	02	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2416 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
2416	97.93	-	-	95.37	32.16	6.28	35.88	183	9	Average
2416	108.4	-	-	105.84	32.16	6.28	35.88	183	9	Peak
4833	41.07	-32.93	74	57.5	34.44	8.07	58.94	100	0	Peak
7251	42.59	-31.41	74	54.88	35.6	10.48	58.37	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2439 MHz is fundamental signal which can be ignored. 2. 3249 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2439	106.56	-	-	103.61	32.49	6.34	35.88	114	330	Average
2439	116.74	-	-	113.79	32.49	6.34	35.88	114	330	Peak
3249	45.75	-50.99	96.74	63.83	33	7.46	58.54	100	0	Peak
4875	43.5	-30.5	74	59.86	34.4	8.11	58.87	100	0	Peak
7311	44.07	-29.93	74	56.44	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	06	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2439 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
2439	99.43	-	-	96.59	32.38	6.34	35.88	184	0	Average
2439	109.61	-	-	106.77	32.38	6.34	35.88	184	0	Peak
4875	43.68	-30.32	74	56.85	34.4	8.11	55.68	100	0	Peak
7311	46.33	-27.67	74	56.58	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	10	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2458 MHz is fundamental signal which can be ignored. 2. 3276 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2458	105.98	-	-	102.88	32.56	6.39	35.85	113	360	Average
2458	116.06	-	-	112.96	32.56	6.39	35.85	113	360	Peak
3276	47.48	-48.58	96.06	65.51	32.97	7.59	58.59	100	0	Peak
4916	45.74	-28.26	74	62.01	34.37	8.18	58.82	100	0	Peak
7371	42.39	-31.61	74	54.86	35.65	10.46	58.58	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	10	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2456 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
2456	101.47	-	-	98.44	32.49	6.39	35.85	179	6	Average
2456	111.93	-	-	108.9	32.49	6.39	35.85	179	6	Peak
4914	41.8	-32.2	74	58.07	34.37	8.18	58.82	100	0	Peak
7371	42.83	-31.17	74	55.45	35.5	10.46	58.58	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	11	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 2464 MHz is fundamental signal which can be ignored. 2. 3282 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
2464	98.88	-	-	95.78	32.56	6.39	35.85	119	359	Average
2464	109.67	-	-	106.57	32.56	6.39	35.85	119	359	Peak
3282	44.8	-44.87	89.67	62.83	32.97	7.59	58.59	100	0	Peak
4923	44.6	-29.4	74	60.86	34.36	8.18	58.8	100	0	Peak
7386	42.84	-31.16	74	55.34	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	11	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 2464 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
2464	94.49	-	-	91.46	32.49	6.39	35.85	142	41	Average
2464	105.29	-	-	102.26	32.49	6.39	35.85	142	41	Peak
4923	40.57	-33.43	74	56.83	34.36	8.18	58.8	100	0	Peak
7386	41.8	-32.2	74	54.47	35.49	10.45	58.61	100	0	Peak

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5747 MHz is fundamental signal which can be ignored. 2. 17235 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5747	94.94	-	-	86.04	34.7	9.1	34.9	105	243	Average
5747	107.13	-	-	98.23	34.7	9.1	34.9	105	243	Peak
11490	45.72	-28.28	74	51.52	38.59	12.92	57.31	100	0	Peak
17235	49.67	-37.46	87.13	48.21	42.96	16.41	57.91	100	0	Peak

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5745 MHz is fundamental signal which can be ignored. 2. 17235 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5745	93.78	-	-	84.88	34.7	9.1	34.9	100	268	Average
5745	107.11	-	-	98.21	34.7	9.1	34.9	100	268	Peak
11490	44.17	-29.83	74	50.78	37.78	12.92	57.31	100	0	Peak
17235	46.96	-40.15	87.11	47.63	40.83	16.41	57.91	100	0	Peak

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	157	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5787 MHz is fundamental signal which can be ignored. 2. 17355 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5787	94.17	-	-	85.16	34.80	9.13	34.92	106	242	Average
5787	106.54	-	-	97.53	34.80	9.13	34.92	106	242	Peak
11571	45.02	-28.98	74	50.69	38.63	13	57.30	100	0	Peak
17355	48.91	-37.63	86.54	48.26	42.4	16.46	58.21	100	0	Peak

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	157	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5787 MHz is fundamental signal which can be ignored. 2. 17355 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5787	93.08	-	-	84.13	34.74	9.13	34.92	100	337	Average
5787	105.92	-	-	96.94	34.74	9.16	34.92	100	337	Peak
11571	45.57	-28.43	74	52.01	37.86	13	57.3	100	0	Peak
17355	46.39	-39.53	85.92	47.22	40.92	16.46	58.21	100	0	Peak

Test Mode :	802.11a	**Temperature :**	21~23°C
Test Channel :	165	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Horizontal
Remark :	1. 5827 MHz is fundamental signal which can be ignored. 2. 17475 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5827	93.81	-	-	84.62	34.87	9.25	34.93	105	246	Average
5827	106.8	-	-	97.61	34.87	9.25	34.93	105	246	Peak
11649	45.52	-28.48	74	51.07	38.66	13.09	57.3	100	0	Peak
17475	48.48	-38.32	86.8	48.78	41.7	16.51	58.51	100	0	Peak

Test Mode :	802.11a	**Temperature :**	21~23°C
Test Channel :	165	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Vertical
Remark :	1. 5827 MHz is fundamental signal which can be ignored. 2. 17475 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5827	92.68	-	-	83.59	34.77	9.25	34.93	160	274	Average
5827	106.04	-	-	96.95	34.77	9.25	34.93	160	274	Peak
11649	46.35	-27.65	74	52.65	37.91	13.09	57.3	100	0	Peak
17475	48.2	-37.84	86.04	49.14	41.06	16.51	58.51	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5747 MHz is fundamental signal which can be ignored. 2. 17235 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5747	97.06	-	-	88.16	34.7	9.1	34.9	105	243	Average
5747	107.18	-	-	98.28	34.7	9.1	34.9	105	243	Peak
11490	44.73	-29.27	74	50.53	38.59	12.92	57.31	100	0	Peak
17235	49.95	-37.23	87.18	48.49	42.96	16.41	57.91	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5747 MHz is fundamental signal which can be ignored. 2. 17232 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5747	96.98	-	-	88.08	34.7	9.1	34.9	110	310	Average
5747	106.95	-	-	98.05	34.7	9.1	34.9	110	310	Peak
11490	44.2	-29.8	74	50.81	37.78	12.92	57.31	100	0	Peak
17232	47.36	-39.59	86.95	48.03	40.83	16.41	57.91	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	157	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5787 MHz is fundamental signal which can be ignored. 2. 17355 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5787	97.2	-	-	88.19	34.8	9.13	34.92	105	241	Average
5787	107.09	-	-	98.08	34.8	9.13	34.92	105	241	Peak
11571	44.27	-29.73	74	49.94	38.63	13	57.3	100	0	Peak
17355	48.25	-38.84	87.09	47.6	42.4	16.46	58.21	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	157	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5787 MHz is fundamental signal which can be ignored. 2. 17355 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5787	97.39	-	-	88.44	34.74	9.13	34.92	109	306	Average
5787	107.01	-	-	98.06	34.74	9.13	34.92	109	306	Peak
11571	44.2	-29.8	74	50.64	37.86	13	57.3	100	0	Peak
17355	46.67	-40.34	87.01	47.5	40.92	16.46	58.21	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	165	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5827 MHz is fundamental signal which can be ignored. 2. 17475 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5827	95.16	-	-	85.97	34.87	9.25	34.93	157	7	Average
5827	105.6	-	-	96.41	34.87	9.25	34.93	157	7	Peak
11649	44.68	-29.32	74	50.23	38.66	13.09	57.3	100	0	Peak
17475	46.22	-39.38	85.6	46.52	41.7	16.51	58.51	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	165	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5827 MHz is fundamental signal which can be ignored. 2. 17475 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5827	95.11	-	-	86.02	34.77	9.25	34.93	100	339	Average
5827	105.59	-	-	96.5	34.77	9.25	34.93	100	339	Peak
11649	43.97	-30.03	74	50.27	37.91	13.09	57.3	100	0	Peak
17475	47.71	-37.88	85.59	48.65	41.06	16.51	58.51	100	0	Peak

Test Mode :	802.11n HT40	**Temperature :**	21~23°C
Test Channel :	151	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Horizontal
Remark :	1. 5757 MHz is fundamental signal which can be ignored. 2. 17265 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
182.28	38.67	-4.83	43.5	60.5	8.39	1.58	31.8	-	-	Peak
188.49	38.21	-5.29	43.5	59.92	8.45	1.6	31.76	-	-	Peak
194.97	39.09	-4.41	43.5	60.39	8.81	1.62	31.73	105	193	Peak
300	28.68	-17.32	46	45.31	13.02	2	31.65	-	-	Peak
747.3	25.04	-20.96	46	32.86	19.94	3.14	30.9	-	-	Peak
832.7	25.92	-20.08	46	33.19	20.24	3.33	30.84	-	-	Peak
5757	95.41	-	-	86.49	34.73	9.1	34.91	107	8	Average
5757	105.4	-	-	96.48	34.73	9.1	34.91	107	8	Peak
11511	48.02	-25.98	74	50.27	38.6	12.95	53.8	100	0	Peak
17265	52.26	-33.14	85.4	46.36	42.9	16.43	53.43	100	0	Peak

Test Mode :	802.11n HT40	**Temperature :**	21~23°C
Test Channel :	151	**Relative Humidity :**	51~53%
Test Engineer :	David Ke	**Polarization :**	Vertical
Remark :	1. 5757 MHz is fundamental signal which can be ignored. 2. 17265 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
181.47	37.19	-6.31	43.5	59.29	8.13	1.57	31.8	-	-	Peak
187.14	37.97	-5.53	43.5	59.74	8.41	1.59	31.77	103	220	Peak
198.21	37.44	-6.06	43.5	58.39	9.12	1.64	31.71	-	-	Peak
302.8	25.81	-20.19	46	42.15	13.31	2.01	31.66	-	-	Peak
673.1	23.62	-22.38	46	32.75	18.87	2.99	30.99	-	-	Peak
783.7	23.85	-22.15	46	31.66	19.91	3.22	30.94	-	-	Peak
5757	94.17	-	-	85.27	34.71	9.1	34.91	101	343	Average
5757	104.47	-	-	95.57	34.71	9.1	34.91	101	343	Peak
11511	47.51	-26.49	74	50.56	37.8	12.95	53.8	100	0	Peak
17265	50.95	-33.52	84.47	47.13	40.82	16.43	53.43	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	159	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Horizontal
Remark :	1. 5797 MHz is fundamental signal which can be ignored. 2. 17385 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5797	95.58	-	-	86.54	34.8	9.16	34.92	160	309	Average
5797	105.01	-	-	95.97	34.8	9.16	34.92	160	309	Peak
11589	48.11	-25.89	74	50.2	38.64	13.02	53.75	100	0	Peak
17385	52.05	-32.96	85.01	47.04	42.2	16.48	53.67	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	159	Relative Humidity :	51~53%
Test Engineer :	David Ke	Polarization :	Vertical
Remark :	1. 5797 MHz is fundamental signal which can be ignored. 2. 17385 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 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
5797	94.43	-	-	85.45	34.74	9.16	34.92	163	271	Average
5797	104.3	-	-	95.32	34.74	9.16	34.92	163	271	Peak
11589	46.97	-27.03	74	49.83	37.87	13.02	53.75	100	0	Peak
17385	50.87	-33.43	84.3	47.1	40.96	16.48	53.67	100	0	Peak

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	ESU26	100390	20Hz~26.5GHz	Dec. 14, 2012	Aug. 01, 2013~ Aug. 06, 2013	Dec. 13, 2013	Radiation (03CH08-HY)
Bilog Antenna	Schaffner	CBL6111C	2725	30MHz~2GHz	Oct. 06, 2012	Aug. 01, 2013~ Aug. 06, 2013	Oct. 05, 2013	Radiation (03CH08-HY)
Horn Antenna	ESCO	3117	66584	1GHz~18GHz	Aug. 10, 2012	Aug. 01, 2013~ Aug. 06, 2013	Aug. 09, 2013	Radiation (03CH08-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Aug. 01, 2013~ Aug. 06, 2013	Sep. 27, 2013	Radiation (03CH08-HY)
Preamplifier	COM-POWER	PA-103	161075	10Hz~1000MHz Gain:32dB	Feb. 26, 2013	Aug. 01, 2013~ Aug. 06, 2013	Feb. 25, 2014	Radiation (03CH08-HY)
Pre Amplifier	Agilent	8449B	3008A02665	1GHz~26.5GHz	Aug. 28, 2012	Aug. 01, 2013~ Aug. 06, 2013	Aug. 27, 2013	Radiation (03CH08-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9 kHz~30 MhZ	Jul. 03, 2012	Aug. 01, 2013~ Aug. 06, 2013	Jul. 03, 2014	Radiation (03CH08-HY)
Turn Table	HD	Deis HD 2000	420/611	0 ~ 360 degree	N/A	Aug. 01, 2013~ Aug. 06, 2013	N/A	Radiation (03CH08-HY)
Antenna Mast	HD	MA 240	240/666	1 m ~ 4 m	N/A	Aug. 01, 2013~ Aug. 06, 2013	N/A	Radiation (03CH08-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.54**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.72**