

Partial FCC RF Test Report

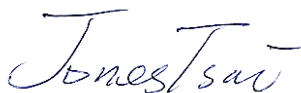
APPLICANT : Getac Technology Corporation.
EQUIPMENT : WLAN module
BRAND NAME : Intel
MODEL NAME : 7260HMW
FCC ID : QYL7260NGW
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a partial report which is included RF output power and AC conducted emission test item. The product was received on Sep. 17, 2013 and testing was completed on Nov. 01, 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



SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : QYL7260NGW

Page Number : 1 of 21

Report Issued Date : Nov. 12, 2013

Report Version : Rev. 01



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	7
1.6 Testing Site	7
1.7 Applied Standards	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Carrier Frequency and Channel	9
2.2 Pre-Scanned RF Power	10
2.3 Test Mode	13
2.4 Connection Diagram of Test System	14
2.5 Support Unit used in test configuration and system	14
3 TEST RESULT	15
3.1 AC Conducted Emission Measurement	15
3.2 Antenna Requirements	19
4 LIST OF MEASURING EQUIPMENT	20
5 UNCERTAINTY OF EVALUATION	21
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR391715C	Rev. 01	Initial issue of report	Nov. 12, 2013

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 1.20 dB at 13.558 MHz
3.2	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Getac Technology Corporation.

5F., Building A, No. 209, Sec. 1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

1.2 Manufacturer

Getac Technology (Kunshan) Co., LTD.

No. 269, No. 2 Avenue, Kunshan Comprehensive Free Trade Zone, Jiangsu Province, P.R.C

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	WLAN module
Brand Name	Intel
Model Name	7260HMW
FCC ID	QYL7260NGW
installed into Tablet	Brand Name: Getac Model Name: V110 Marketing Name: V110
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n (HT20/HT40) WLAN 5GHz 802.11a/n (HT20/HT40) WLAN 5GHz 11ac (VHT20/VHT40/VHT80) Bluetooth v3.0+EDR/v4.0-LE
EUT Stage	Production Unit

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

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5745~5825MHz.
Maximum Output Power to antenna	<2412 MHz ~ 2462 MHz > <Ant. 1> 802.11b : 17.80 dBm (0.0603 W) 802.11g : 20.69 dBm (0.1172 W) 802.11n HT20 : 20.73 dBm (0.1183 W) 802.11n HT40 : 20.62 dBm (0.1153 W) <Ant. 2> 802.11b : 16.45 dBm (0.0442 W) 802.11g : 19.95 dBm (0.0989 W) 802.11n HT20 : 19.93 dBm (0.0984 W) 802.11n HT40 : 18.59 dBm (0.0723 W) <MIMO Ant. 1+2> 802.11n HT20 : 21.79 dBm (0.1510 W) 802.11n HT40 : 21.12 dBm (0.1294 W) <5745 MHz ~ 5825 MHz > <Ant. 1> 802.11a : 20.81 dBm (0.1205 W) 802.11n HT20 : 20.55 dBm (0.1135 W) 802.11n HT40 : 19.18 dBm (0.0828 W) 802.11n VHT20 : 20.55 dBm (0.1135 W) 802.11n VHT40 : 19.59 dBm (0.0910 W) 802.11n VHT80 : 22.68 dBm (0.1854 W) <Ant. 2> 802.11a : 20.46 dBm (0.1112 W) 802.11n HT20 : 20.38 dBm (0.1091 W) 802.11n HT40 : 19.57 dBm (0.0906 W) 802.11n VHT20 : 20.28 dBm (0.1067 W) 802.11n VHT40 : 19.18 dBm (0.0828 W) 802.11n VHT80 : 22.61 dBm (0.1824 W) <MIMO Ant. 1+2> 802.11n HT20 : 22.18 dBm (0.1652 W) 802.11n HT40 : 21.92 dBm (0.1556 W) 802.11n VHT20 : 22.30 dBm (0.1698 W) 802.11n VHT40 : 21.81 dBm (0.1517 W) 802.11n VHT80 : 22.61 dBm (0.1824 W)
Antenna Type	<Ant 1> 802.11b/g/n : PIFA Antenna type with gain 2.52 dBi 802.11a/n/ac : PIFA Antenna type with gain 2.62 dBi <Ant 2> 802.11b/g/n : PIFA Antenna type with gain 2.2 dBi 802.11a/n/ac : PIFA Antenna type with gain 2.62 dBi

Product Specification subjective to this standard			
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK)		
	802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)		
Antenna Function for Transmitter	802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
		Ant. 1	Ant. 2
	802.11 b	V	V
	802.11 g	V	V
	802.11 a	V	V
	802.11 ac MIMO	V	V
	802.11 n MIMO	V	V

1.5 Modification of EUT

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

1.6 Testing Site

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

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

1.7 Applied Standards

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

- ♦ FCC Part 15 Subpart 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

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.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz).

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	157	5785
	151	5755	159	5795
	153	5765	161	5805
	155	5775	165	5825

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and shown in the following tables.

<Ant. 1>

802.11b				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	17.80	17.76	17.77	17.68

802.11g								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	20.69	20.68	20.68	20.67	20.67	20.65	20.65	20.61

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	20.73	20.72	20.71	20.71	20.72	20.71	20.70	20.71

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	20.62	20.61	20.60	20.60	20.59	20.58	20.61	20.60

802.11a								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	20.81	20.73	20.78	20.80	20.77	20.73	20.78	20.76

5GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	20.55	20.45	20.44	20.46	20.51	20.49	20.54	20.53

5GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	19.18	19.12	19.15	19.13	19.12	18.81	19.00	19.11

5GHz 802.11 ac VHT20									
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8
Peak Power (dBm)	20.55	20.41	20.49	20.36	20.34	20.18	20.54	20.46	20.51

5GHz 802.11 ac VHT40										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	19.59	19.30	19.45	19.57	19.25	19.58	19.51	19.45	19.48	19.55

5GHz 802.11 ac VHT80										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	22.68	22.67	22.66	22.65	22.66	22.66	22.65	22.65	22.63	22.64

<Ant. 2>

802.11b				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	16.45	16.44	16.41	16.40

802.11g								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	19.95	19.89	19.89	19.88	19.93	19.94	19.93	19.93

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	19.93	19.91	19.92	19.92	19.90	19.92	19.91	19.92

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	18.59	18.53	18.51	18.58	18.55	18.58	18.51	18.55

802.11a								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	20.46	20.43	20.41	20.42	20.45	20.41	20.45	20.44

5GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	20.38	20.36	20.34	20.37	20.36	20.33	20.37	20.36

5GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	19.57	19.54	19.42	19.36	19.39	19.46	19.52	19.53

5GHz 802.11 ac VHT20									
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8
Peak Power (dBm)	20.28	20.24	20.25	20.26	20.26	20.25	20.24	20.26	20.25

5GHz 802.11 ac VHT40										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	19.18	19.04	19.04	18.75	18.74	18.92	19.01	19.05	19.04	19.01

5GHz 802.11 ac VHT80										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	22.61	22.52	22.52	22.60	22.57	22.51	22.54	22.55	22.57	22.52

MIMO <Ant. 1+2>

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	21.79	21.78	21.71	21.66	21.66	21.54	21.75	21.46

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	21.12	21.11	21.11	21.11	21.08	21.09	21.09	21.10

5GHz 802.11n HT20								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	22.18	22.14	22.16	21.95	22.07	21.86	22.14	22.09

5GHz 802.11n HT40								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	21.92	21.70	21.91	21.48	21.49	21.39	21.87	21.86

5GHz 802.11ac VHT20									
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8
Peak Power (dBm)	22.30	22.21	22.22	22.22	22.26	21.94	22.28	22.21	22.27

5GHz 802.11ac VHT40										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	21.81	21.67	21.64	21.45	21.53	21.61	21.55	21.58	21.59	21.57

5GHz 802.11ac VHT80										
Data Rate (MHz)	MSC 0	MCS 1	MCS2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Peak Power (dBm)	22.61	21.55	21.98	22.43	22.03	21.40	22.14	22.51	22.53	22.46

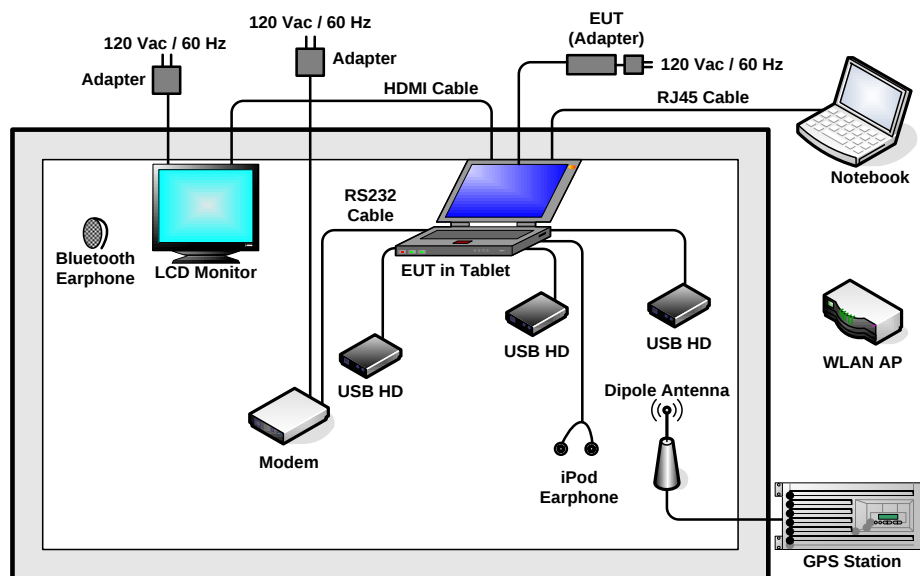
Note: MIMO Ant 1+2 is a calculated result from sum of the power MIMO Ant 1 and MIMO Ant 2.

2.3 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + TF + TC
Remark: - TC stands for Test Configuration, and consists of Earphone, Adapter 1, USB HD, RJ-45 Link, RS232 (Load with Modem), and LCD Monitor. - TF stands for Test Function, and consists of GPS Rx, Camera, MPEG4, H Pattern, NFC on, and Bluetooth Link.	

2.4 Connection Diagram of Test System



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC	Unshielded, 3.0m	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
6.	USB HD	WD	WDBAAR320 0ABK-PESN	FCC DoC	Unshielded, 0.5 m	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
8.	NFC Card	N/A	N/A	N/A	N/A	N/A
9.	MODEM	ACEEX	DM1414	IFAXDM141	D-Shielded, 1.15 m	Unshielded, 1.8 m
10.	iPod Earphone	Apple	N/A	N/A	Shielded, 1.0 m	N/A

3 Test Result

3.1 AC Conducted Emission Measurement

3.1.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

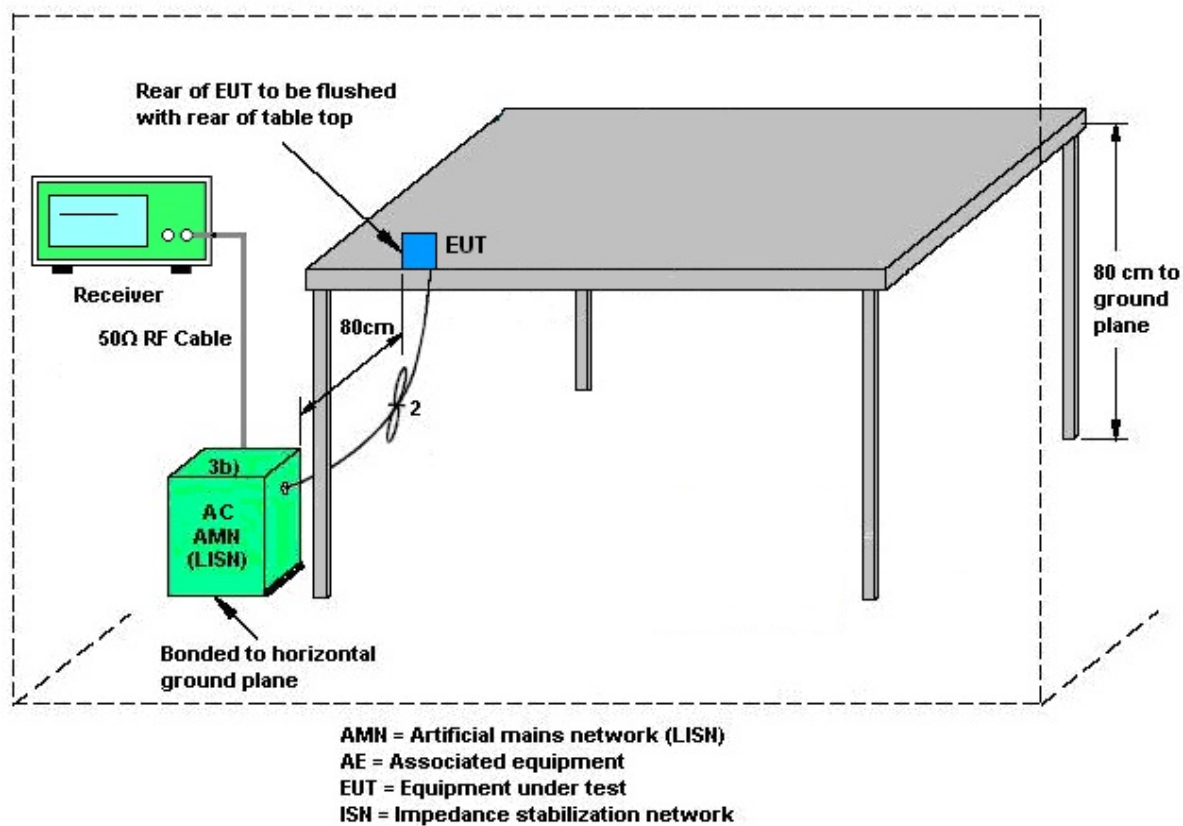
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

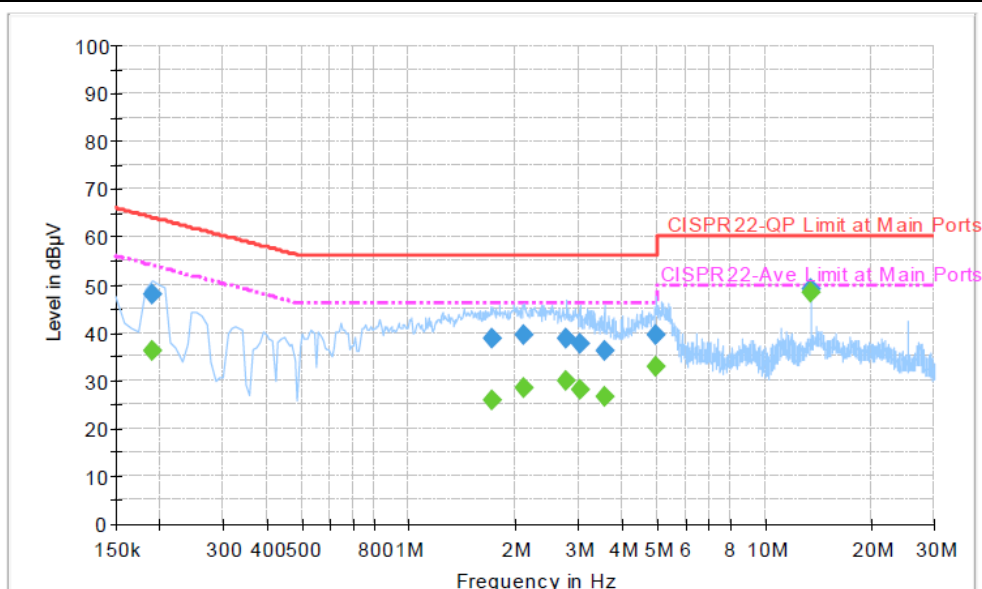
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other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

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Link + TF + TC		



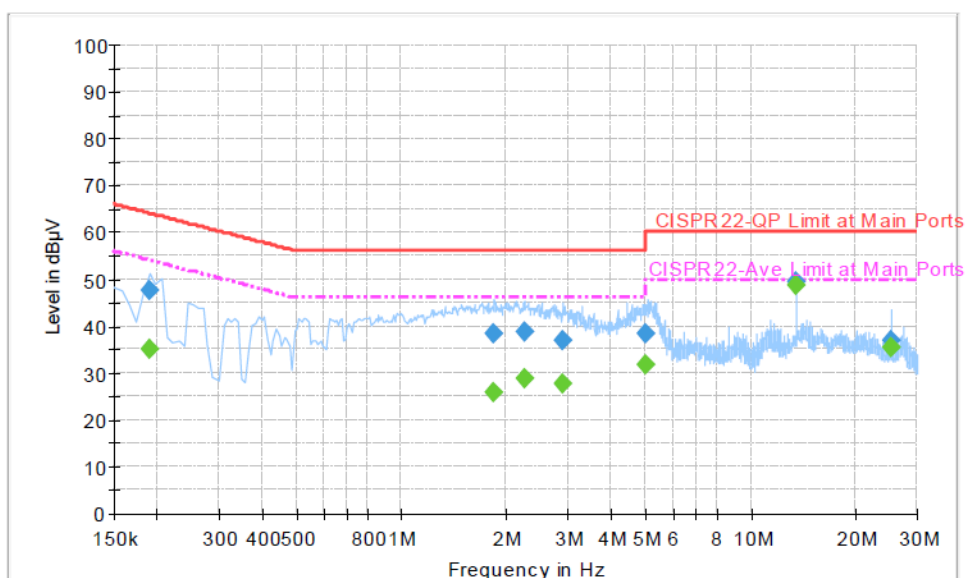
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	47.9	Off	L1	19.4	16.1	64.0
1.718000	38.8	Off	L1	19.5	17.2	56.0
2.118000	39.3	Off	L1	19.5	16.7	56.0
2.774000	38.6	Off	L1	19.6	17.4	56.0
3.022000	37.5	Off	L1	19.6	18.5	56.0
3.550000	36.1	Off	L1	19.6	19.9	56.0
4.974000	39.5	Off	L1	19.7	16.5	56.0
13.558000	49.0	Off	L1	19.8	11.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	36.1	Off	L1	19.4	17.9	54.0
1.718000	26.0	Off	L1	19.5	20.0	46.0
2.118000	28.5	Off	L1	19.5	17.5	46.0
2.774000	29.9	Off	L1	19.6	16.1	46.0
3.022000	28.2	Off	L1	19.6	17.8	46.0
3.550000	26.5	Off	L1	19.6	19.5	46.0
4.974000	32.7	Off	L1	19.7	13.3	46.0
13.558000	48.5	Off	L1	19.8	1.5	50.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Link + TF + TC		


Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	47.5	Off	N	19.4	16.5	64.0
1.846000	38.5	Off	N	19.5	17.5	56.0
2.246000	38.9	Off	N	19.6	17.1	56.0
2.894000	36.9	Off	N	19.7	19.1	56.0
4.998000	38.3	Off	N	19.7	17.7	56.0
13.558000	49.3	Off	N	19.9	10.7	60.0
25.230000	36.8	Off	N	20.1	23.2	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	35.1	Off	N	19.4	18.9	54.0
1.846000	25.8	Off	N	19.5	20.2	46.0
2.246000	28.8	Off	N	19.6	17.2	46.0
2.894000	27.7	Off	N	19.7	18.3	46.0
4.998000	31.6	Off	N	19.7	14.4	46.0
13.558000	48.8	Off	N	19.9	1.2	50.0
25.230000	35.6	Off	N	20.1	14.4	50.0

3.2 Antenna Requirements

3.2.1 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.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

The EUT supports CDD mode.

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

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

	Ant 1	Ant 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
			(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	2.52	2.20	2.36	5.37	0.00	0.00
5 GHz	2.62	2.62	2.62	5.63	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 17, 2013	Nov. 01, 2013	Aug. 16, 2014	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 17, 2013	Nov. 01, 2013	Aug. 16, 2014	Conducted (TH02-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 13, 2012	Oct. 03, 2013	Nov. 12, 2013	Conduction (CO05-HY)
Two-LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2012	Oct. 03, 2013	Dec. 11, 2013	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 06, 2012	Oct. 03, 2013	Dec. 05, 2013	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Oct. 03, 2013	N/A	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
--	------