

FCC TEST REPORT

Prepared For :	Hopeful Electric CO., LTD
Product Name:	MID
Model :	MID727A-RK326, A7, PTAB735, A7X, PTAB735X, MID727-RK326, MID727-RK326A,MID727-RK326B,MID727-RK326C, MID727B-RK326
Prepared By:	Shenzhen BATT Testing Technology Co., Ltd. 11F, Bldg.B, Xinbaoyuan, Xinanhu Commercial city, Bao'an District, Shenzhen, Guangdong, China. Tel: 86-755-27753991 Fax: 86-755-27754182
Test Date:	April 18, 2014 to April 26, 2014
Date of Report :	April 28, 2014
Report No.:	BATT201404099FCC

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1 TEST CERTIFICATION

Product: MID

MID727A-RK326, A7, PTAB735, A7X, PTAB735X, MID727-RK326,

MID727-RK326A, MID727-RK326B, MID727-RK326C, MID727B-RK326

Applicant: Hopeful Electric CO., LTD

22 Floor, Changhong Building, Hi-Tech Park, Nanshan District, Shenzhen City,

P.R.China

Factory: Hopeful Elecrtic CO., LTD / Guangdong Changhong Digital Technology Co., LTD

148, Ronggui Road (Mid), Ronggui Town, Shunde District, Foshan City, Guangdong

Prov., China / Via Gramsci 19, 20881 Bernareggio (MB), Italy/ 1, Xingye Road

(North), Nantou Town, Zhongshan City, Guangdong Prov.

Trade Mark: N/A

Tested: April 18, 2014 to April 26, 2014

Test Voltage: DC5V by power supply, 3.7V polymer lithium-ion battery

Operational EEE 802.11b/g, 802.11n HT20: 2412-2462MHz Frequency IEEE 802.11n HT40 : 2422MHz-2452MHz

Range:

IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) Modulation

IEEE 802.11g: OFDM (64QAM, 16AQM, QPSK, BPSK)

IEEE 802.11n HT20/40: OFDM (64QAM, 16QAM, QPSK, BPSK)

Channel IEEE 802.11b/g/n: 5MHz

Spacing

IEEE 802.11b: 11, 5.5, 2, 1 Mbps

IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps Air Data Rate

IEEE 802.11n HT20: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps

IEEE 802.11n HT40: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps

Frequency By software

Selection

Channel IEEE 802.11b/g ,802.11n HT20 : 11 Channels

Number IEEE 802.11n HT40: 7 Channels

Antenna: Integral antenna with Gain 2.0 dBi

Model No.: HP0515D2-NA **Power Supply:**

Input:100-240V, 0.3A, 50/60Hz; Output: +5V, 1.5A Max

FCC ID: 2AAQZMID727A-RK326

Applicable FCC Part 15.247

Standards:

The test report was prepared by Shenzhen BATT Testing Technology Co., Ltd.and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:	Hellen	Xiao
Reviewer :	Hellen XiaoAs Mike	
	Mike Yong/Su	pervisor
Approved & Authorized Signer:	Jones	Song
	Jones Song/ I	Manager

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Test Equipments 2.0 Instrument Type Manufacturer Model Serial No. Date of Cal. Due Date **ESPI** Test ROHDE&SCHWA ESPI 3 100379 2013-08-27 2014-08-26 Receiver RZ**EMI Test ESU** 1302.6005.26 Rohde & Schwarz 2013-08-27 2014-08-26 Receiver ROHDE&SCHWA Impuls-Begrenzer ESH3-Z2 100281 2014-08-26 2013-08-27 RZLoop Antenna **EMCO** 6502 00042960 2013-06-25 2014-06-24 **ESPI** Test ROHDE&SCHWA ESI26 838786/013 2013-08-27 2014-08-26 RZReceiver **BBHA** BBHA9170399 **SCHWARZBECK** Horn Antenna 2013-09-15 2014-09-14 9170 **BBHA** D143 **SCHWARZBECK** Horn Antenna 2013-09-15 2014-09-14 9120 Power meter Anritsu ML2487A 6K00003613 2013-08-27 2014-08-26 Power sensor Anritsu MA2491A 32263 2013-08-27 2014-08-26 VULB916 Schwarebeck 9163/142 Bilog Antenna 2013-12-13 2014-12-12 3 LISN (Three NSLK 8126453 2013-08-27 2014-08-26 Phase) Schwarebeck 8126 9*6*6 Anechoic N/A 2013-08-27 2014-08-26 **EMI Test Receiver** RS 100139 2013-08-27 2014-08-26 ESCS30 LISN RS ESH2-Z5 100225 2013-08-27 2014-08-26 Pre-Amplifier A.H. PAM-0126 1415261 2013-07-25 2014-07-24



Technical Details 3.0

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107	Conducted Emission Test	PASS	Complies
& 15.207			
	Spectrum bandwidth of a		Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit	Division Multiplex System	PASS	
raragraph 13.247(a)(2) Emili	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output		
15.247(b)	power	PASS	Complies
13.247(0)	Limit: max. 30dBm		
FCC Part 15, Paragraph	Transmitter Radiated	PASS	Complies
15.109,15.205 & 15.209	Emission		
	Limit: Table 15.209		
FCC Part 15, Paragraph	Power Spectral Density	PASS	Complies
15.247(e)	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	PASS	Complies
15.247(d)	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	Table 15.209		

4.0 Test LAB Details

All Tests Performed at

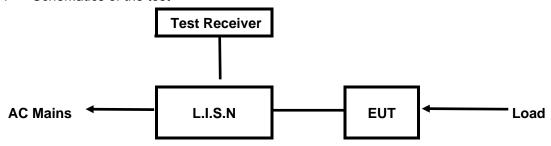
Name: Shenzhen Emtek Co., Ltd.

Address: Bldg. 69, Majialong Industry Zone,, Nanshan District, Shenzhen, Guangdong, 518052China

FCC Registration Number: 406365

Power Line Conducted Emission Test 5.

Schematics of the test 5.1

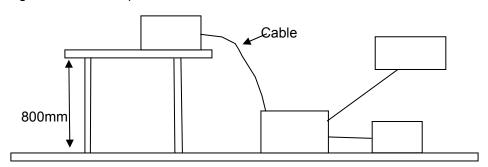


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2003.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT



A. EUT

Device	Manufacturer	Model	FCC ID
	Hopeful Elecrtic CO., LTD /	MID727A-RK326, A7, PTAB735,	2AAQZMID727A-
MID	Guangdong Changhong	A7X, PTAB735X, MID727-RK326,	RK326
UIID	Digital Technology Co., LTD	MID727-RK326A, MID727-RK326B,	
		MID727-RK326C, MID727B-RK326	

B. Internal Device

Device	Manufacturer	Model	FCC
			ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107, 15.207

Eroguenov	Class A Lin	nits (dBµV)	Class B Limits (dBµV)		
Frequency (MHz)	Quasi-peak Average Level		Quasi-peak Level	Average Level	
(1011 12)	Level				
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*	
0.50 ~ 5.00	73.0	60.0	56.0	46.0	
5.00 ~ 30.00	5.00 ~ 30.00 73.0		60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

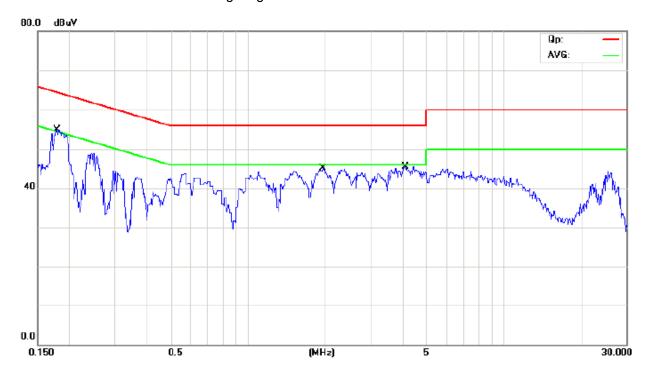
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment	
1	0.1778	41.50	11.03	52.53	64.59	-12.06	QP		
2	0.1778	19.00	11.03	30.03	54.59	-24.56	AVG		
3 *	1.9512	32.84	12.28	45.12	56.00	-10.88	QP		
4	1.9512	19.47	12.28	31.75	46.00	-14.25	AVG		
5	4.1111	31.46	13.14	44.60	56.00	-11.40	QP		
6	4.1111	18.54	13.14	31.68	46.00	-14.32	AVG		



B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

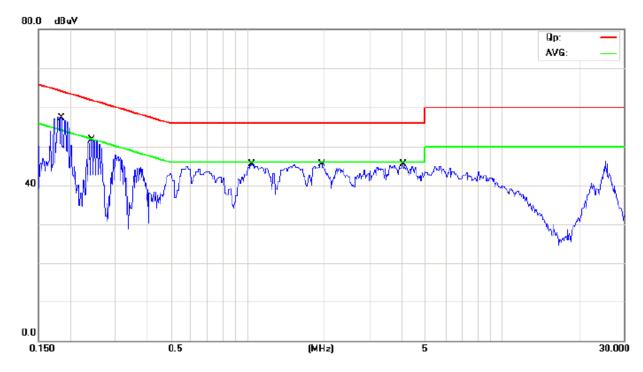
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



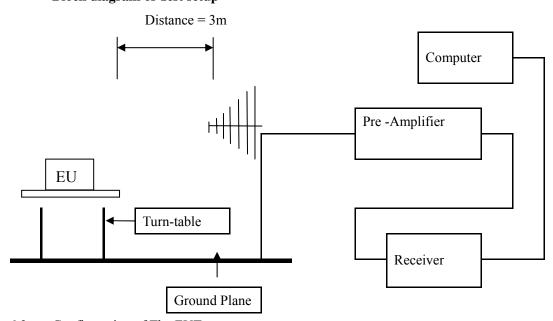
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1847	45.40	11.04	56.44	64.27	-7.83	QP	
2		0.1847	31.90	11.04	42.94	54.27	-11.33	AVG	
3		0.2418	39.63	11.10	50.73	62.03	-11.30	QP	
4		0.2418	20.94	11.10	32.04	52.03	-19.99	AVG	
5		1.0287	30.59	11.91	42.50	56.00	-13.50	QP	
6		1.0287	19.45	11.91	31.36	46.00	-14.64	AVG	
7		1.9478	29.90	12.28	42.18	56.00	-13.82	QP	
8		1.9478	20.10	12.28	32.38	46.00	-13.62	AVG	
9		4.0550	31.48	13.12	44.60	56.00	-11.40	QP	
10		4.0550	20.46	13.12	33.58	46.00	-12.42	AVG	



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Shenzhen Emtek Co., Ltd.. This site is on file with the FCC laboratory division, Registration No.406365
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dBμV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

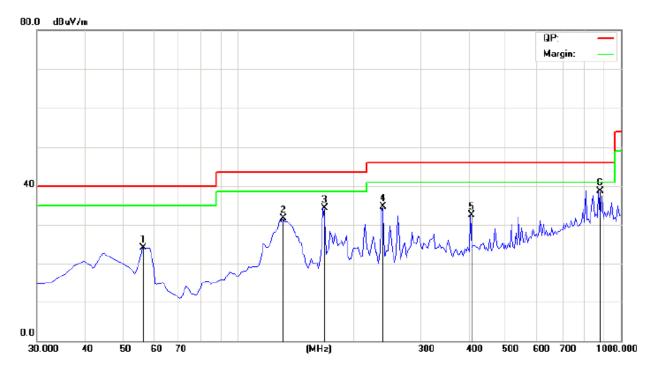
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Figure:

Н

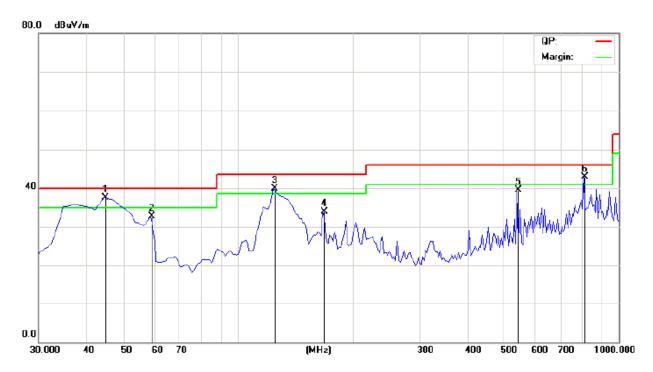


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
Ī	1		56.6750	36.15	-11.95	24.20	40.00	-15.80	peak			
-	2		131.8500	46.55	-14.92	31.63	43.50	-11.87	peak			
-	3		168.2250	48.37	-14.03	34.34	43.50	-9.16	peak			
-	4		238.5500	44.65	-9.87	34.78	46.00	-11.22	peak			
-	5		408.3000	37.72	-5.13	32.59	46.00	-13.41	peak			
-	6	*	883.6000	34.62	4.01	38.63	46.00	-7.37	peak			



Test Figure:

V



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	44.5500	49.04	-11.56	37.48	40.00	-2.52	peak		_	
2		59.1000	44.76	-12.10	32.66	40.00	-7.34	peak			
3	ļ	124.5750	54.05	-14.19	39.86	43.50	-3.64	peak			
4		168.2250	47.95	-14.03	33.92	43.50	-9.58	peak			
5		544.1000	41.77	-2.26	39.51	46.00	-6.49	peak			
6	İ	813.2750	40.10	2.73	42.83	46.00	-3.17	peak			

Operation Mode: Transmitting under CH01 for 11b at 11Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2412.00	94.26 (PK)	Н	Fundamental
2412.00	95.26 (PK)	V	Frequency
4824.00	46.32 (PK)	Н	
4824.00	47.09 (PK)	V	
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16884		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps



Operation Mode: Transmitting under CH06 for 11b at 11Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2437.00	94.12 (PK)	Н	Fundamental
2437.00	95.03 (PK)	V	Frequency
4874.00	47.51 (PK)	Н	
4874.00	48.26 (PK)	V	
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps



Operation Mode: Transmitting under CH11 for 11b at 11Mbps

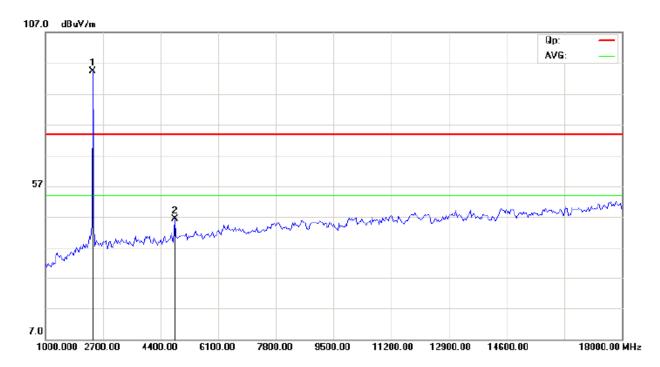
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2462.00	93.74 (PK)	Н	Fundamental
2462.00	95.17 (PK)	V	Frequency
4924	46.79 (PK)	Н	
4924	49.13 (PK)	V	
7386		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps

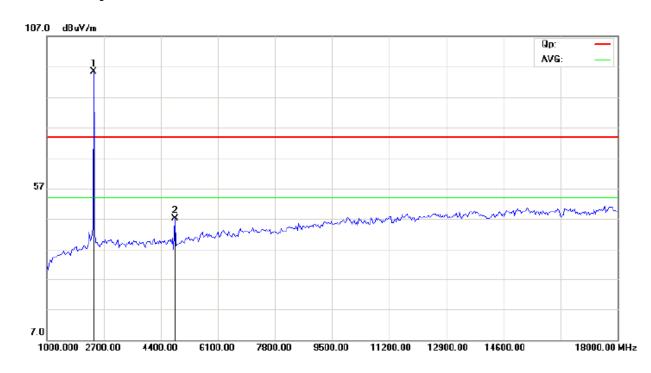


Please refer to the following test plots for details:

CH01 at 11Mbps: Horizontal

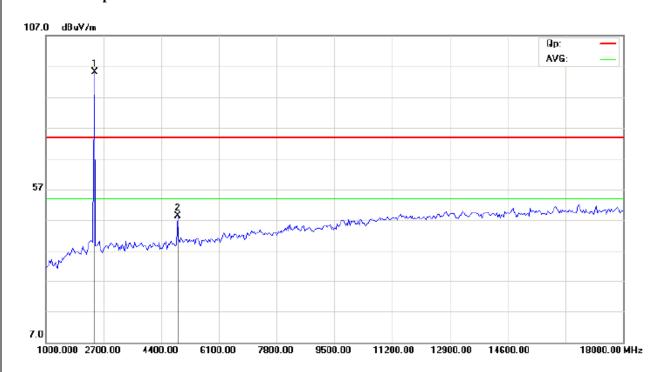


CH01 at 11Mbps: Vertical

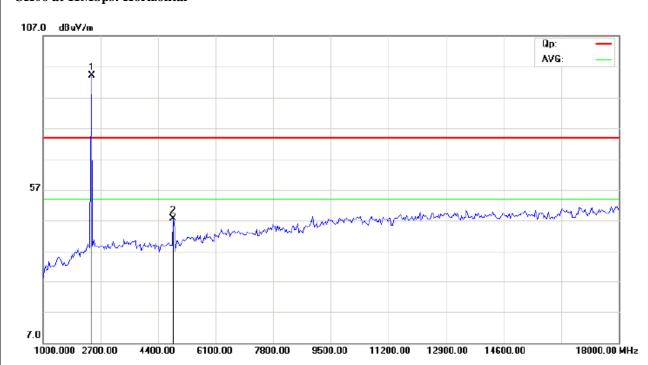




CH06 at 11Mbps: Vertical



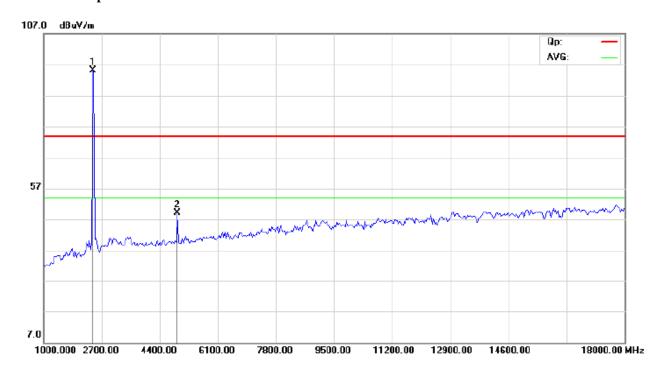
CH06 at 11Mbps: Horizontal



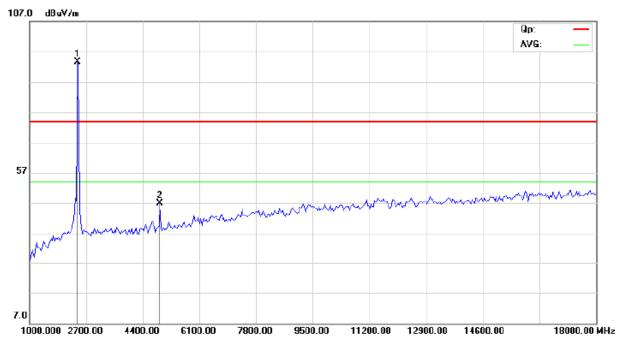


Shellzhen Brit Freshig Teenhology Co., Etc.

CH11 at 11Mbps: Vertical



CH11at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.



Operation Mode: Transmitting under CH01 for 11g at 54 Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2412.00	92.05 (PK)	Н	Fundamental
2412.00	93.88 (PK)	V	Frequency
4824.00	47.51 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.25 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

Operation Mode: Transmitting under CH06 for 11g at 54 Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2437.00	92.16 (PK)	Н	Fundamental
2437.00	93.63 (PK)	V	Frequency
4874.00	46.15 (PK)	Н	-
4874.00	47.32 (PK)	V	
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 54Mbps

Operation Mode: Transmitting under CH11 for 11g at 54 Mbps

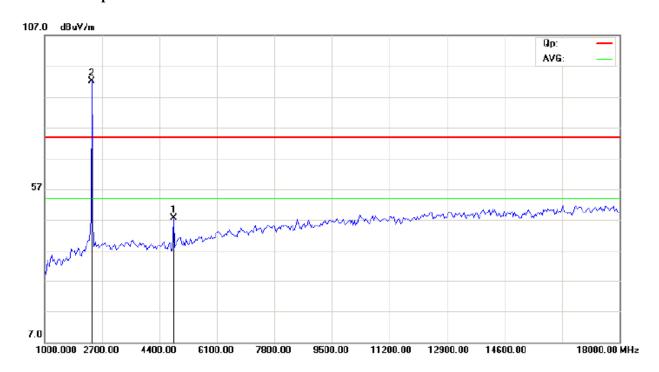
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2462.00	92.82 (PK)	Н	Fundamental
2462.00	93.75 (PK)	V	Frequency
4924	48.08 (PK)	Н	
4924	47.64 (PK)	V	
7386		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234	-	H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 54Mbps

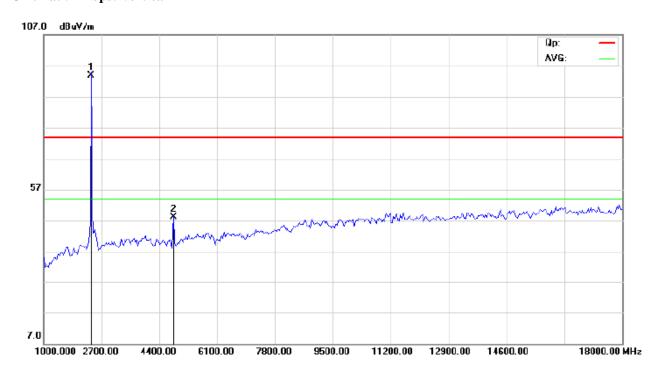


Please refer to the following test plots for details:

CH01 at 54Mbps: Horizontal

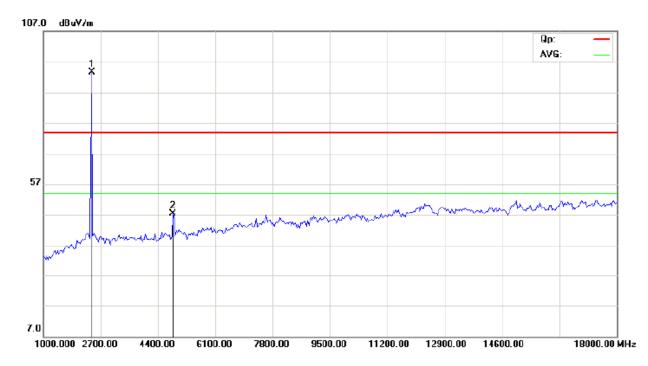


CH01 at 54Mbps: Vertical

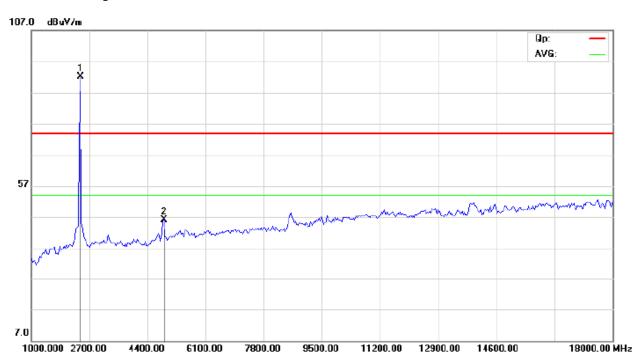




CH06 at 54Mbps: Vertical

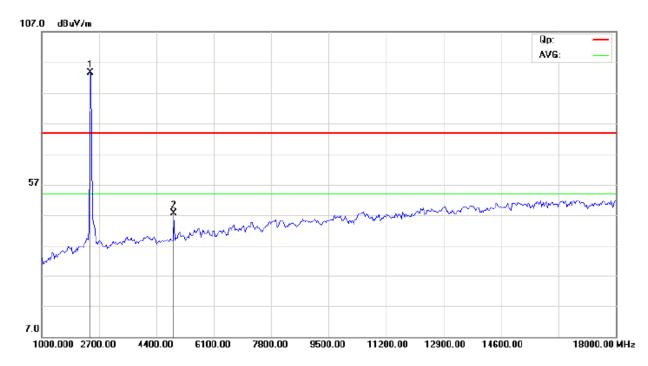


CH06 at 54Mbps: Horizontal

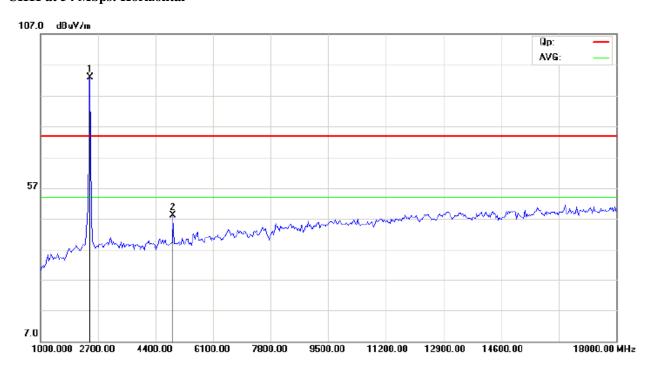




CH11 at 54Mbps: Vertical



CH11 at 54 Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.



Operation Mode: Transmitting under CH01 for 11n HT20 at 65Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2412.00	93.12 (PK)	Н	Fundamental
2412.00	93.42 (PK)	V	Frequency
4824.00	48.35 (PK)	Н	74(Peak)/ 54(AV)
4824.00	49.09 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11n HT20 at 65Mbps

Operation Mode: Transmitting under CH06 for 11n HT20 at 65Mbps

	-		
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2437.00	93.05 (PK)	Н	Fundamental
2437.00	94.51 (PK)	V	Frequency
4874.00	46.04 (PK)	Н	74(Peak)/ 54(AV)
4874.00	47.88 (PK)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802. 11n HT20 at 65bps

Operation Mode: Transmitting under CH11 for 11n HT20 at 65Mbps

			=
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2462.00	93.12 (PK)	Н	Fundamental
2462.00	94.31 (PK)	V	Frequency
4924	48.19 (PK)	Н	74(Peak)/ 54(AV)
4924	48.14 (PK)	V	74(Peak)/ 54(AV)
7386		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

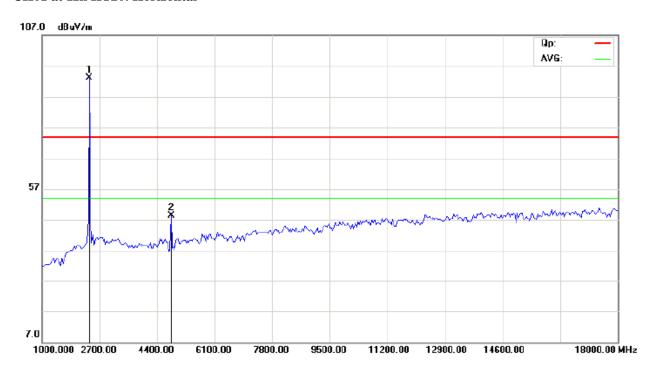
2. Remark "---" means that the emissions level is too low to be measured

3. For 802. 11n HT20 at 65bps

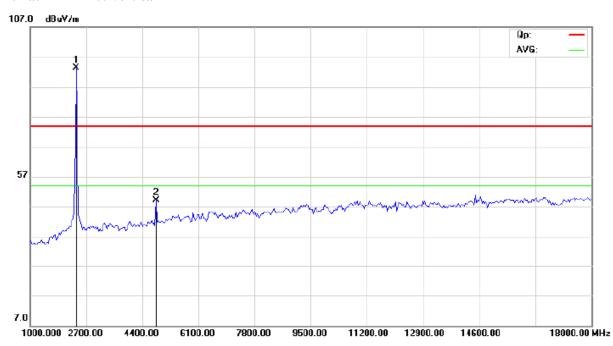


Please refer to the following test plots for details:

CH01 at 11n HT20: Horizontal

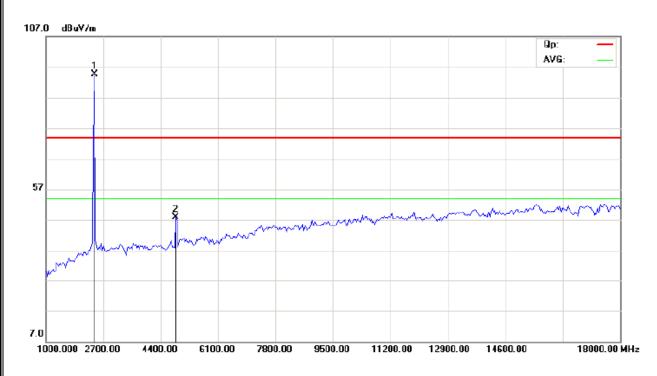


CH01 at 11n HT20: Vertical

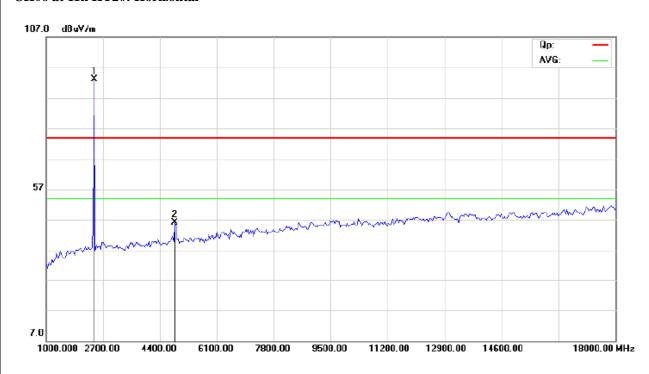




CH06 at 11n HT20: Vertical

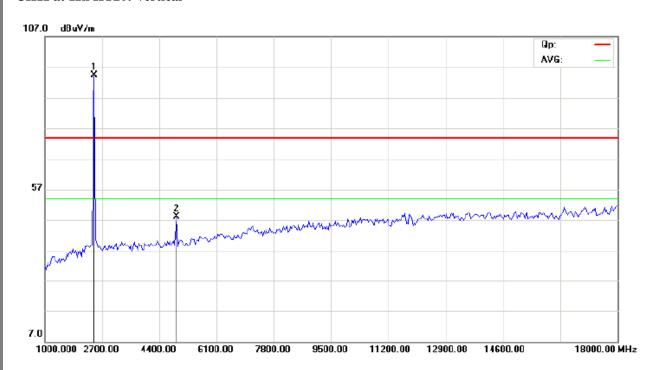


CH06 at 11n HT20: Horizontal

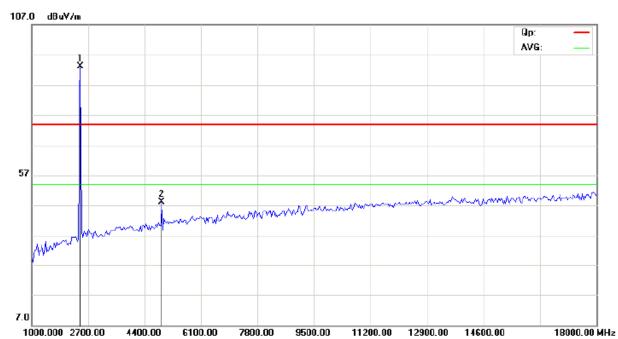




CH11 at 11n HT20: Vertical



CH11 at 11n HT20: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.



Operation Mode: Transmitting under CH01 for 11n HT40 at 65Mbps

			•
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2422.00	89.01 (PK)	Н	Fundamental
2422.00	91.46 (PK)	V	Frequency
4844.00	45.51 (PK)	Н	
4844.00	47.27 (PK)	V	
7266.00		H/V	74(Peak)/ 54(AV)
9688.00		H/V	74(Peak)/ 54(AV)
12110		H/V	74(Peak)/ 54(AV)
14532		H/V	74(Peak)/ 54(AV)
16954		H/V	74(Peak)/ 54(AV)
19376		H/V	74(Peak)/ 54(AV)
21798		H/V	74(Peak)/ 54(AV)
24220		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11n HT40 at 65bps

Operation Mode: Transmitting under CH04 for 11n HT40 at 65Mbps

Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2437.00	90.72 (PK)	Н	Fundamental
2437.00	91.65 (PK)	V	Frequency
4874.00	46.68 (PK)	Н	
4874.00	47.53 (PK)	V	
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802. 11n HT40 at 65bps

Operation Mode: Transmitting under CH7 for 11n HT40 at 65Mbps

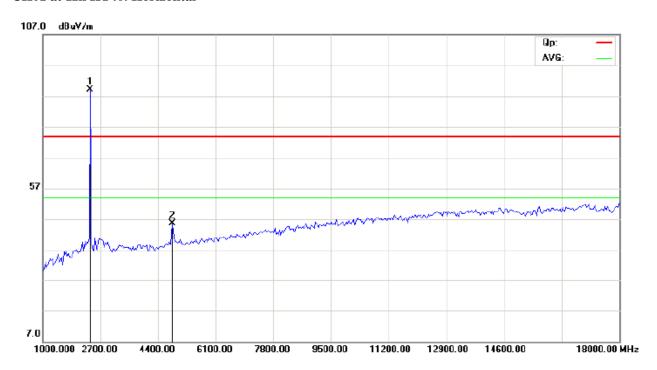
Frequency	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
(MHz)			
2452.00	89.85 (PK)	Н	Fundamental
2452.00	91.00 (PK)	V	Frequency
4904	46.82 (PK)	Н	
4904	47.08 (PK)	V	
7356		H/V	74(Peak)/ 54(AV)
9808		H/V	74(Peak)/ 54(AV)
12260		H/V	74(Peak)/ 54(AV)
14712		H/V	74(Peak)/ 54(AV)
17164		H/V	74(Peak)/ 54(AV)
19616		H/V	74(Peak)/ 54(AV)
22068		H/V	74(Peak)/ 54(AV)
24520		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802. 11n HT40 at 65bps

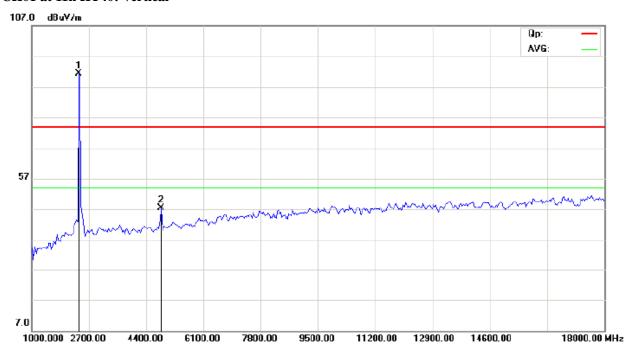


Please refer to the following test plots for details:

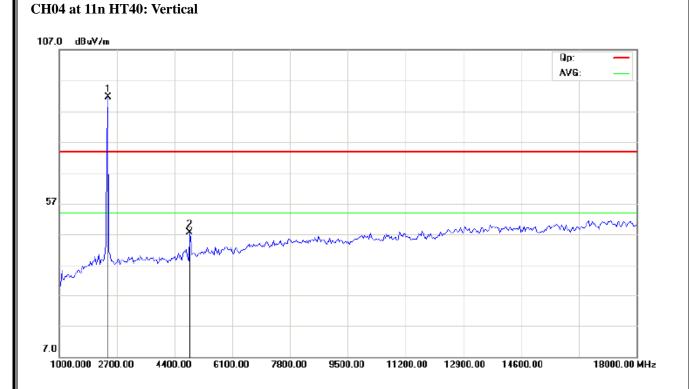
CH01 at 11n HT40: Horizontal



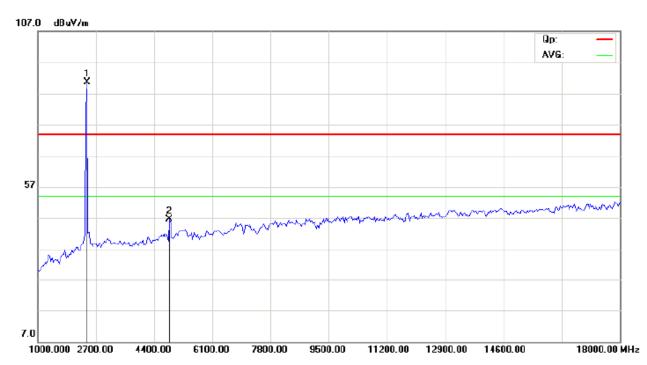
CH01 at 11n HT40: Vertical





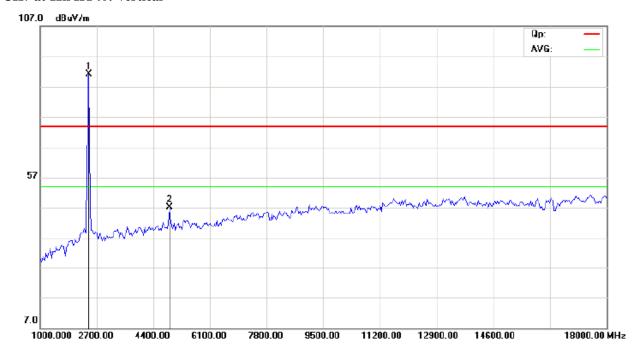


CH04 at 11n HT40: Horizontal

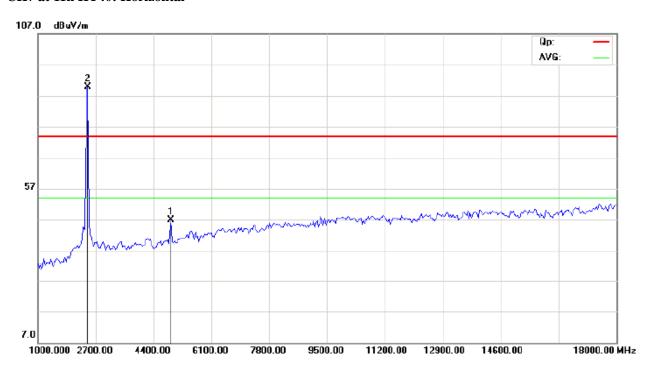




CH7 at 11n HT40: Vertical



CH7 at 11n HT40: Horizontal

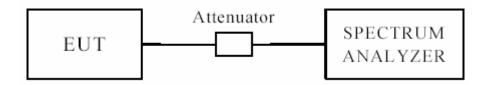


Note: For radiated Emissions from 18-25GHz, it is only the floor noise.



7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result



1

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Shenzhen BATT Testing Technology Co., Ltd. Report No.: BATT201404099FCC

11

11

11

2412

2437

2462

EUT			MID			Model		727A-RK326
Mode	de 802.11b Input Voltage		tage		120V~			
Temperatu	re	2	4 deg. C,		Humidity	,		56% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth [Hz)		num Limit MHz)	Pass/ Fail
1		2412	1	10	0.08	0.5		Pass
6		2437	1	10.08		08 0.		Pass
11		2462	1	10	0.08	0.5		Pass

9.48

9.48

9.48

0.5

0.5

0.5

Pass

Pass

Pass

EUT		MID			Model		MID'	727A-RK326				
Mode		802.11g			Input Vol	tage		120V~				
Temperatu	re	2	4 deg. C,		Humidity		:	56% RH				
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		num Limit MHz)	Pass/ Fail				
1		2412	54	16	.56	56		Pass				
6		2437	54	16	16.56		16.56		16.56		0.5	Pass
11		2462	54	16	.56		0.5	Pass				



7

2452

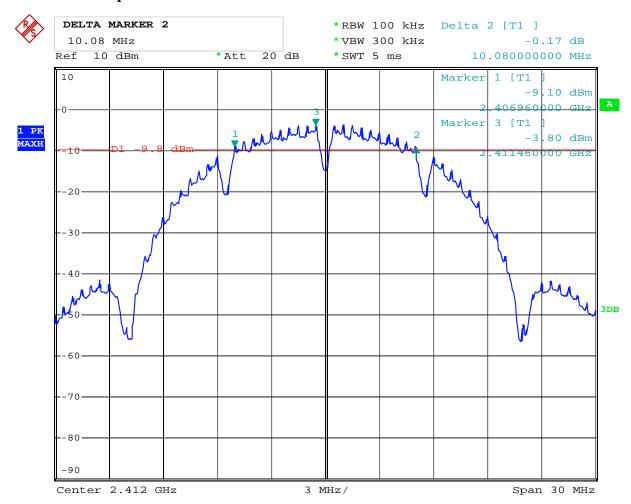
Shenzhen BATT Testing Technology Co., Ltd. Report No.: BATT201404099FCC MID EUT Model MID727A-RK326 802.11n Input Voltage 120V~ Mode Temperature 24 deg. C, Humidity 56% RH Data 6 dB Bandwidth Channel Frequency Transfer Minimum Limit Channel Pass/ Fail (MHz) Rate (MHz) (MHz) (Mbps) HT20 1 65 0.5 2412 17.76 Pass 65 6 2437 17.76 0.5 Pass 65 0.5 11 2462 17.76 Pass HT40 65 2422 36.40 0.5 Pass 1 65 36.40 0.5 4 2437 Pass

36.50

0.5

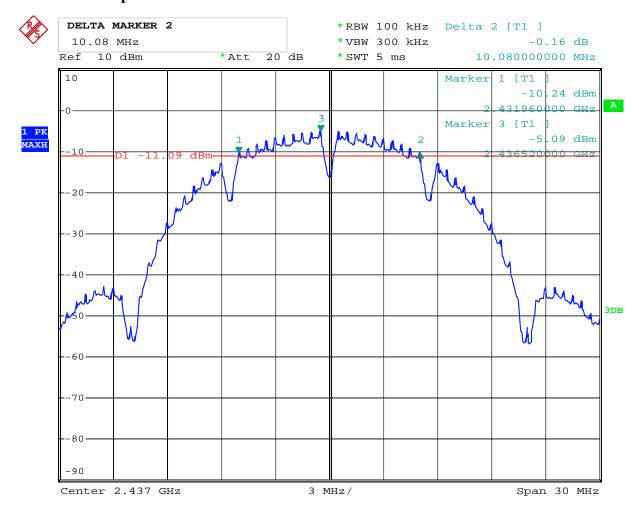
Pass

65

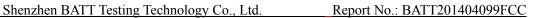


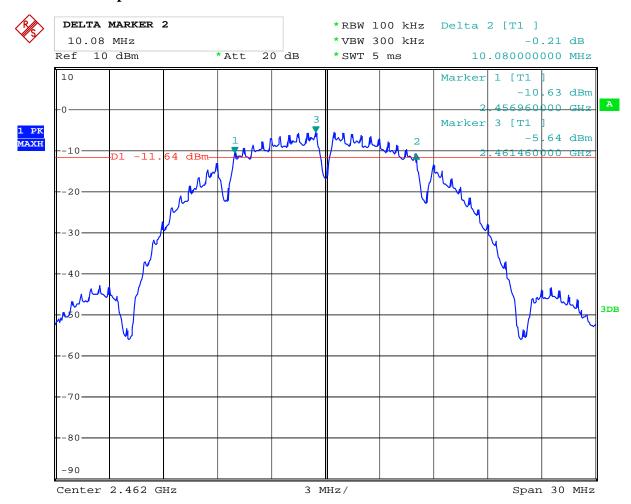
24.APR.2014 15:03:52 Date:





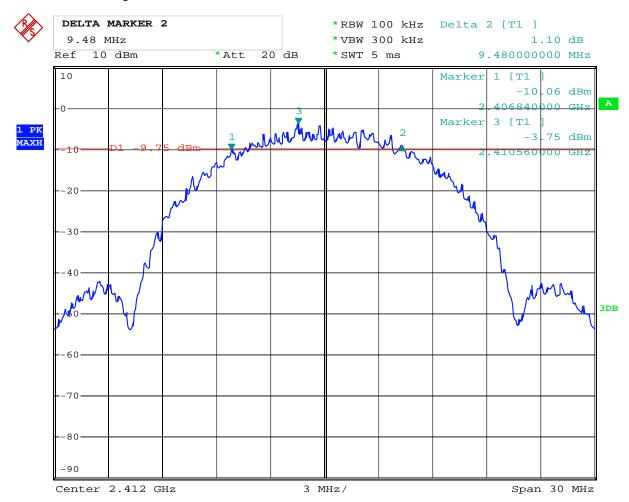
Date: 24.APR.2014 15:15:28



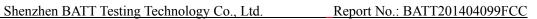


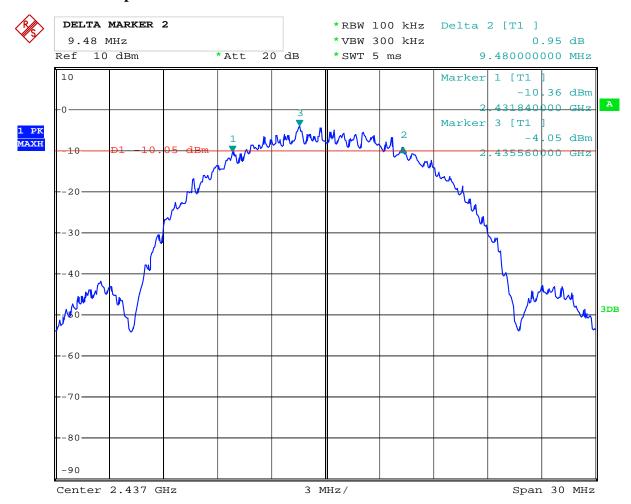
Date: 24.APR.2014 15:18:00





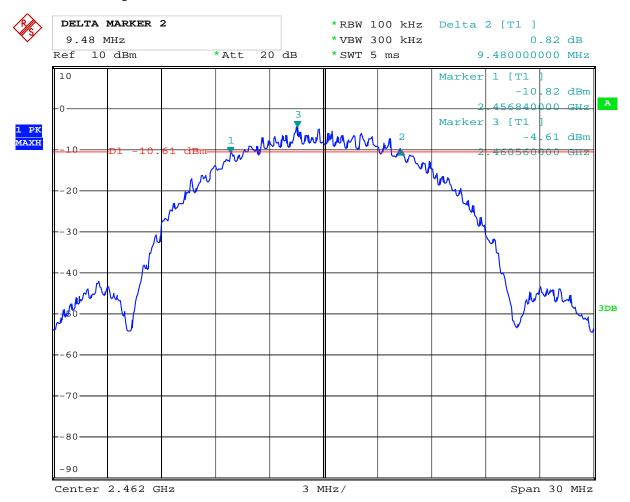
Date: 24.APR.2014 15:07:43





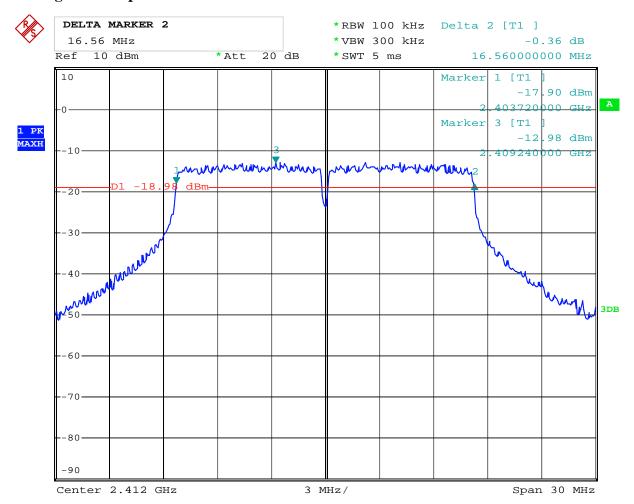
Date: 24.APR.2014 15:12:22





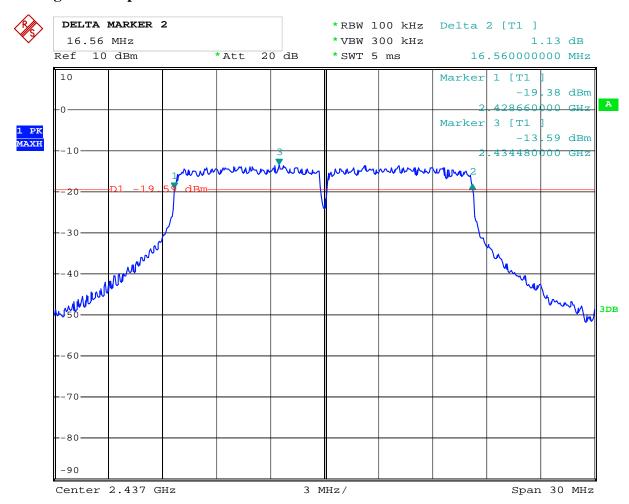
24.APR.2014 15:21:04 Date:

7. 802.11g at 54 Mbps of CH01



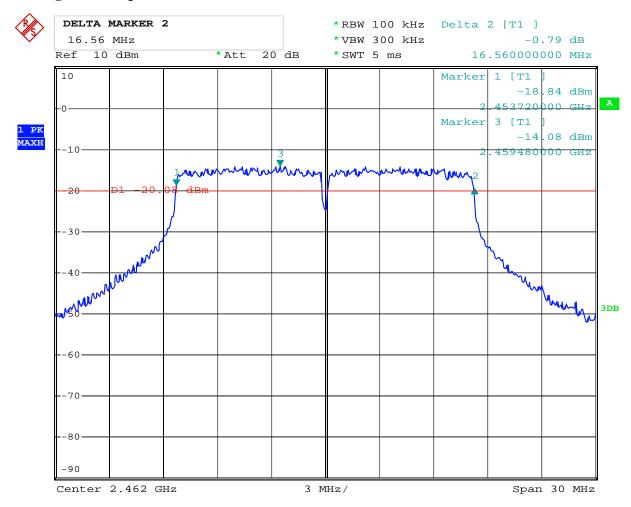
24.APR.2014 15:06:14 Date:

8. 802.11g at 54 Mbps of CH06



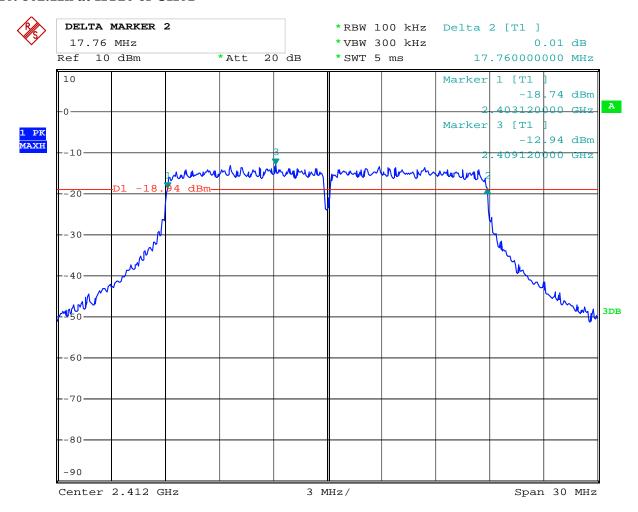
24.APR.2014 15:13:47 Date:

9. 802.11g at 54 Mbps of CH11



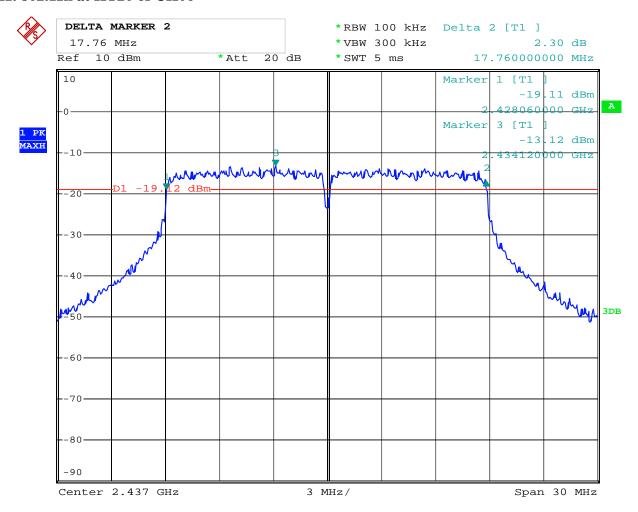
24.APR.2014 15:19:19 Date:

10. 802.11n at HT20 of CH01



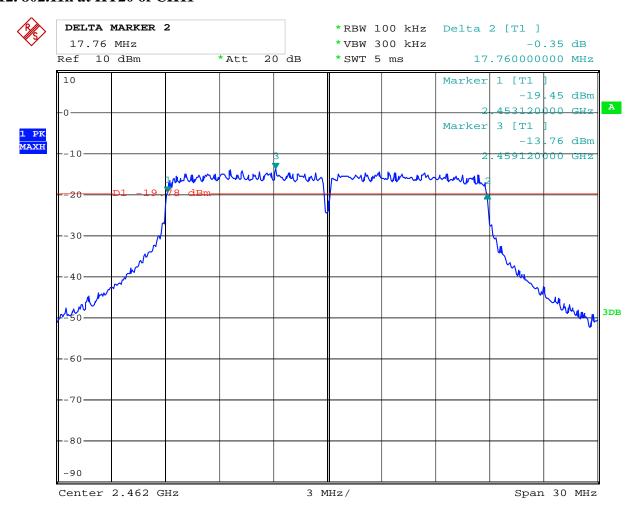
24.APR.2014 15:09:23 Date:

11. 802.11n at HT20 of CH06



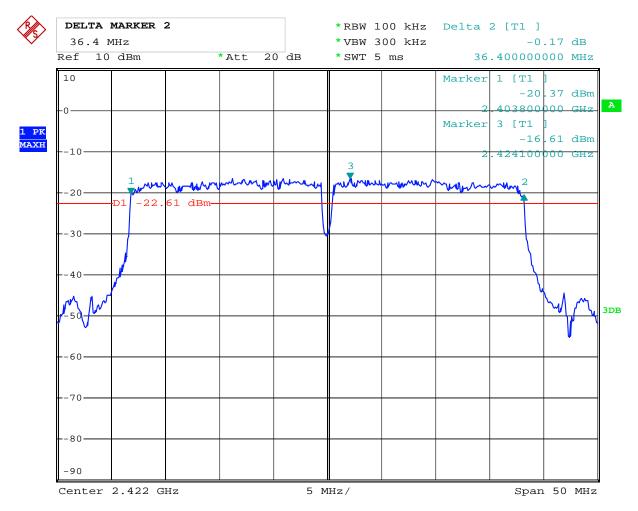
24.APR.2014 15:11:10 Date:

12. 802.11n at HT20 of CH11



24.APR.2014 15:22:12 Date:

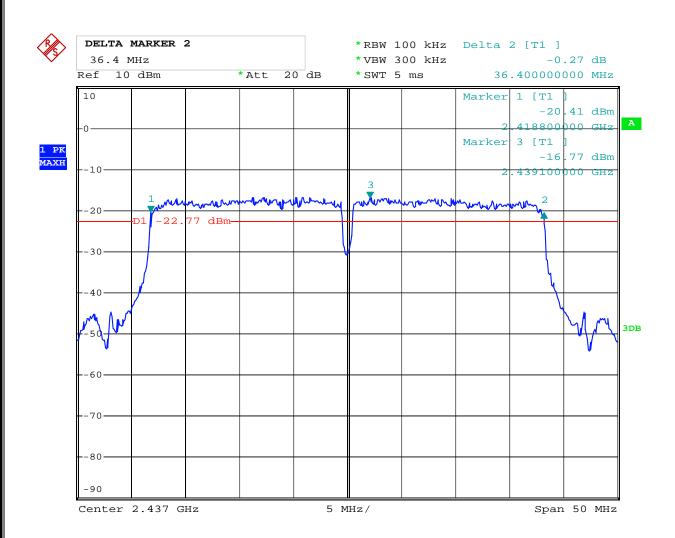
13. 802.11n at HT40 of CH01



24.APR.2014 15:23:27 Date:

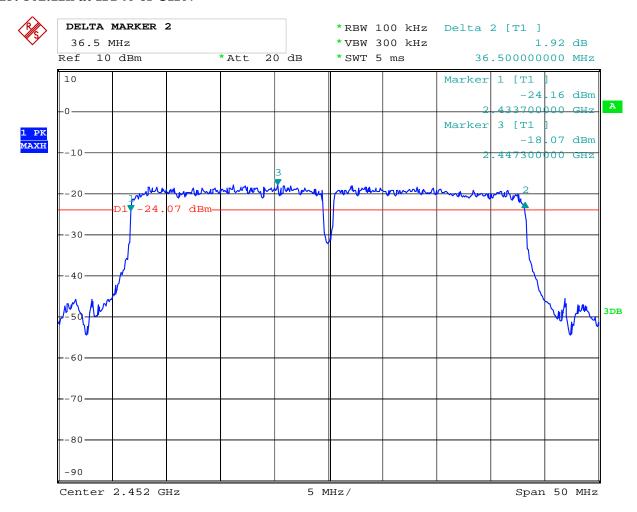


14. 802.11n at HT40 of CH04



Date: 24.APR.2014 15:24:58

15. 802.11n at HT40 of CH07

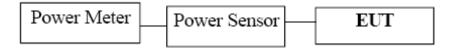


24.APR.2014 15:30:35 Date:



8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured



8.4Test Results

EUT		MID		Model		MID727A-RK326	
Mode		802.11b 11Mbps		Input V	Input Voltage		120V~
Temperati	ure	24 deg. C,		Humidity			56% RH
Channel	Cha	annel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1		2412	9.05	9.05)	Pass
6		2437	8.93		30		Pass
11	11 2462		8.63		30		Pass

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT	EUT MII		D !		Model		MID727A-RK326
Mode 80		802.1	1g	Input Voltage			120V~
Temperati	ure	24 deg	g. C,	Humidi	ty		56% RH
Channel	Channel Frequency Peak Power Output Lin (MHz) (dBm)		Peak P Lin (dB	nit Pass/ Fail			
1		2412 8.6			30		Pass
6		2437 8.48		30)	Pass
11		2462	8.10		30		Pass

Note: 1. At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator



EUT		MID		Model		MID727A-RK326	
Mode	Mode		802.11n HT20		Input Voltage		120V~
Temperati	ure	24 deg	g. C,	Humidi	ty		56% RH
Channel	Cha	annel Frequency (MHz)	Peak Power (dBm)	Output	Peak P Lin (dB	nit	Pass/ Fail
1		2412 8.36		30)	Pass
6		2437 8.23			30		Pass
11		2462	8.14		30		Pass

Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT		MI	Model		MID727A-RK326		
Mode		802.11n HT40		Input Voltage			120V~
Temperati	ure	24 deg	g. C,	Humidi	ity		56% RH
Channel	Cha	annel Frequency (MHz)	Peak Power (dBm)	Output	Peak P Lin (dB	nit	Pass/ Fail
1		2422 8.37			30		Pass
5	·	2437 8.27			30		Pass
7	·	2452	8.03	30)	Pass

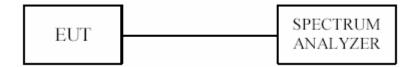
Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW \geq 30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = \max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be ≤ 8 dBm.



9.4Test Result

EUT	EUT MII		D Me		odel		MID727A-RK326
Mode	Mode 802.11b 1Mbps Input Voltage			120V~			
Temperati	ure	24 deg	g. C,	Humidi	ity		56% RH
Channel	Cha	annel Frequency (MHz)	Final RF Po		Maximui (dB	-	Pass/ Fail
			11	Mbps			
1	2412		-15.57		8		Pass
6	2437 -15.60 8			Pass			
11		2462	-16.07		8		Pass

Note: At finial test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

EUT		MII	D	M	Model		MID727A-RK326
Mode		802.11b 11Mbps Input Voltage			120V~		
Temperati	ure	24 deg	g. C,	Humidi	ty		56% RH
Channel	Cha	annel Frequency (MHz)	Final RF Po Level (dBr		Maximui (dB		Pass/ Fail
			11	Mbps			
1		2412	2 -13.99 8			Pass	
6		2437	-13.99		8		Pass
11		2462	-14.33		8		Pass

Note: At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11



EUT		MII	MID		Model		D727A-RK326
Mode	Mode 802.11g Input Voltage		oltage		120V~		
Temperati	ure	24 deg	g. C,	Humidi	ity		56% RH
Channel	Channel Frequency		Final RF Power		Maximum Limit		Pass/ Fail
Chamiei		(MHz)	Level (dB	m)	(dBm)		
			54Mbp	S			
1		2412	-21.65		8		Pass
6		2437 -21.79			8		Pass
11		2462	-22.32		8		Pass

Note: At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

EUT		MID		Model		MID727A-RK326	
Mode	ode 802.11n HT20 Input Voltage			120V~			
Temperat	ure	24 deg	g. C,	Humidi	ity	56% RH	
Channel	Channel Frequency		Final RF Po	Final RF Power		m Limit	Pass/ Fail
Chamiei		(MHz)	Level (dBm)		(dBm)		
			11n HT2	20			
1		2412	-21.09		8		Pass
6		2437 -20.		8			Pass
11		2462	-21.34		8		Pass

Note: At finial test to get the worst-case emission at 65M for CH01, CH06 and CH11



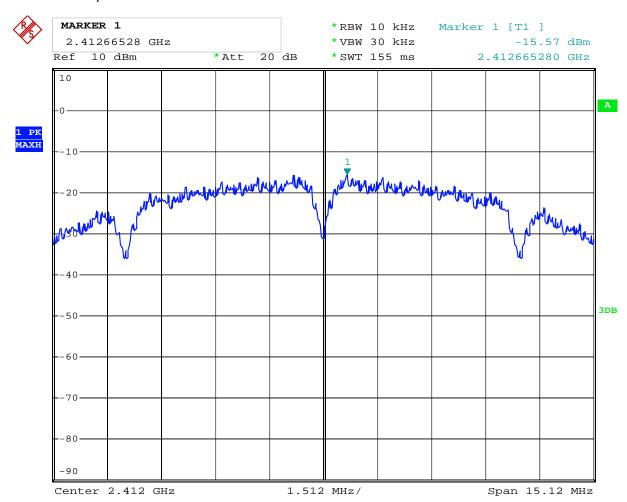
EUT		MI	Model		MID727A-RK326		
Mode		802.11n	HT40	Input Voltage		120V~	
Temperat	ure	24 deg	g. C,	Humidi	Humidity		56% RH
Channel	Cha	annel Frequency	Final RF Po	wer	Maximum Limit		Pass/ Fail
Chamilei		(MHz)	Level (dBm)		(dBm)		
			11n H	Т40			
1		2422	-22.88		8		Pass
5		2437	-24.61		8		Pass
7		2452	-23.22		8		Pass

Note: At finial test to get the worst-case emission at 65Mfor CH01, CH04 and CH07



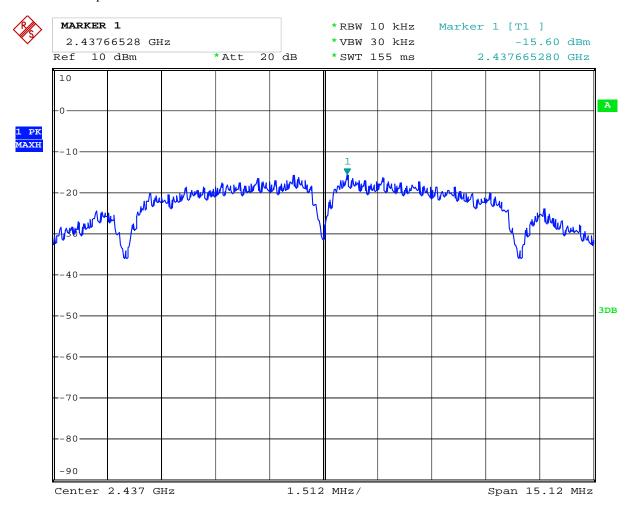
9.5 Photo of Power Spectral Density Measurement

1. 802.11b at 1Mbps of CH01



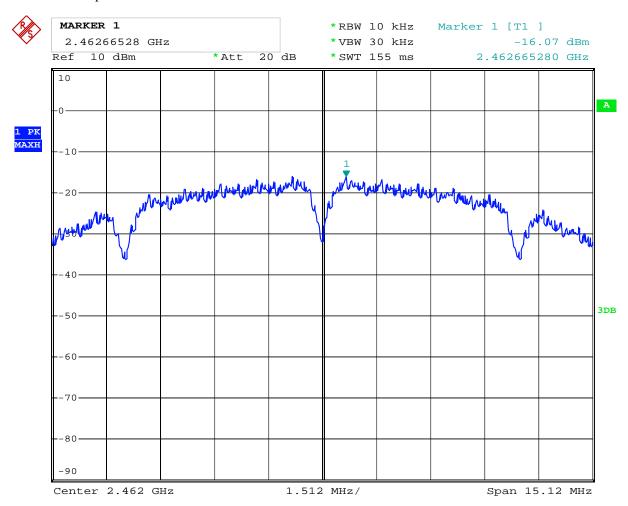
Date: 24.APR.2014 15:43:54





24.APR.2014 15:44:27 Date:

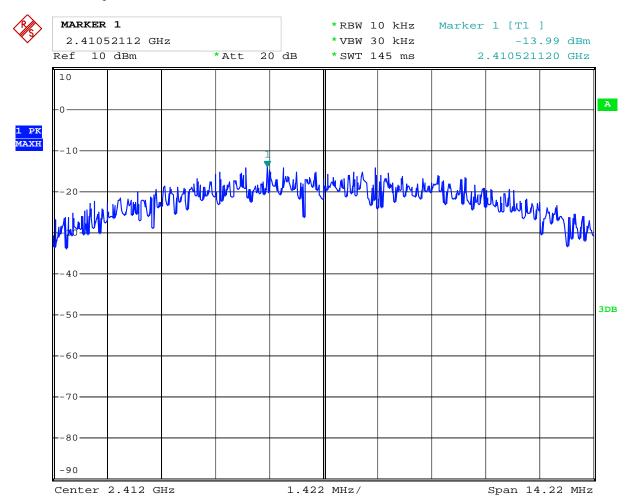




24.APR.2014 15:45:13 Date:

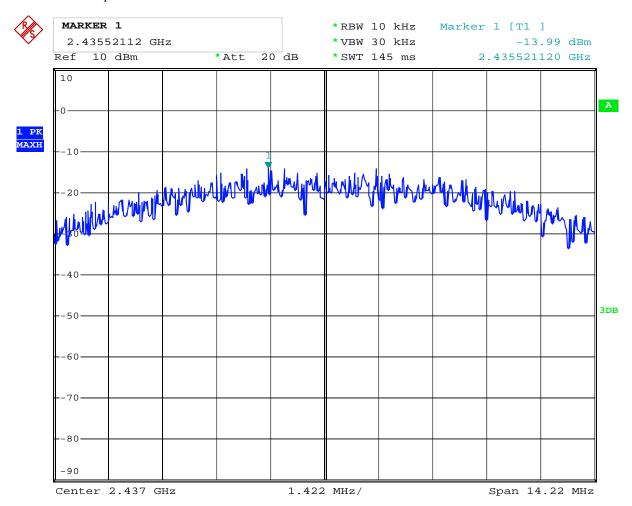


4. 802.11b at 11Mbps of CH01



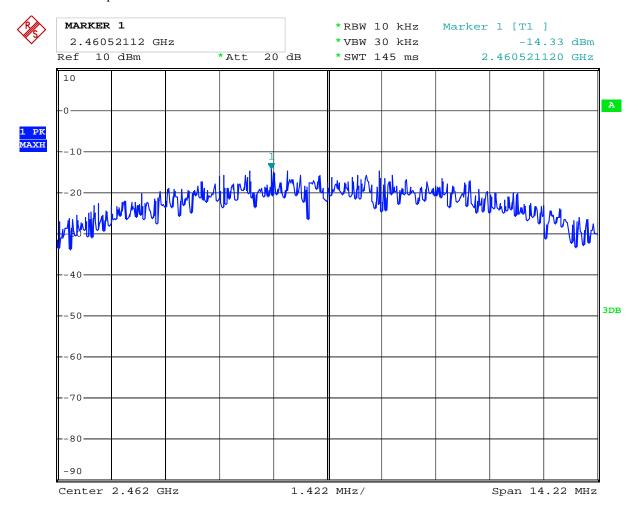
24.APR.2014 15:48:49 Date:





24.APR.2014 15:49:51 Date:

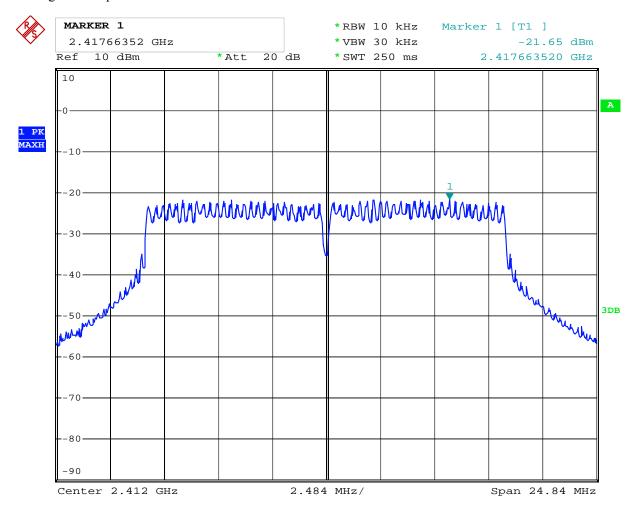




24.APR.2014 15:51:00 Date:



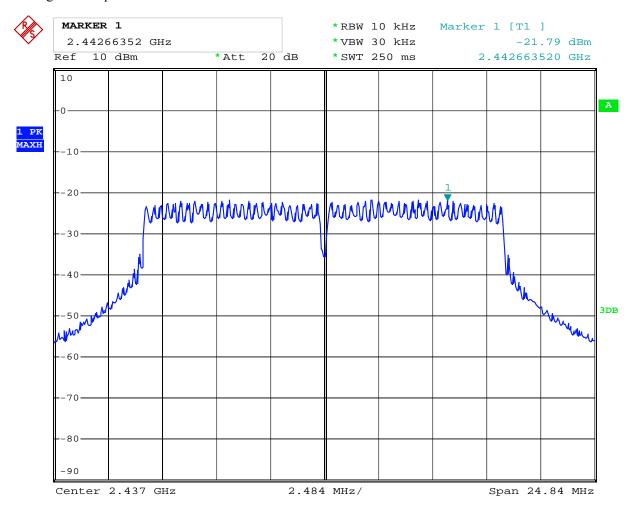
7. 802.11g at 54Mbps of CH1



24.APR.2014 15:47:59 Date:



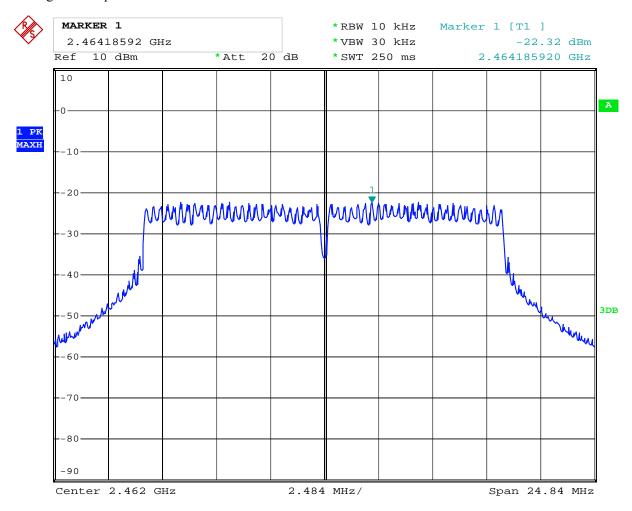
8. 802.11g at 54Mbps of CH6



24.APR.2014 15:47:11 Date:



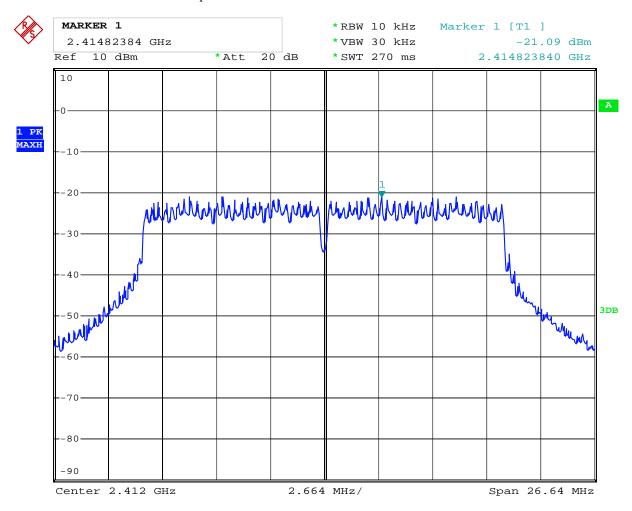
9. 802.11g at 54Mbps of CH11



24.APR.2014 15:46:21 Date:



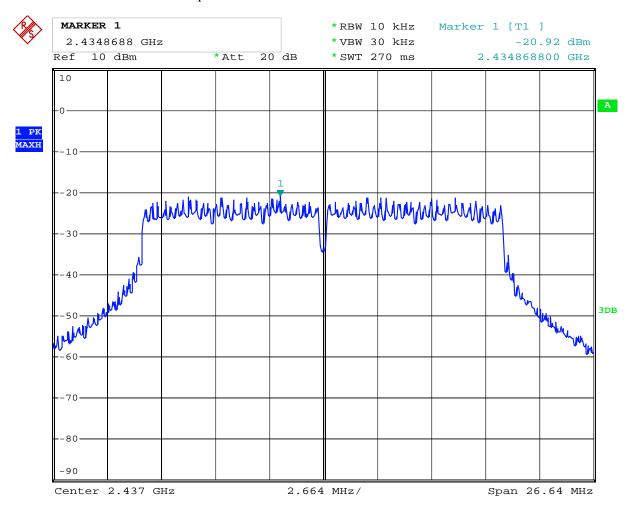
10. 802.11n at HT20 of CH01 65Mbps



24.APR.2014 15:42:45 Date:



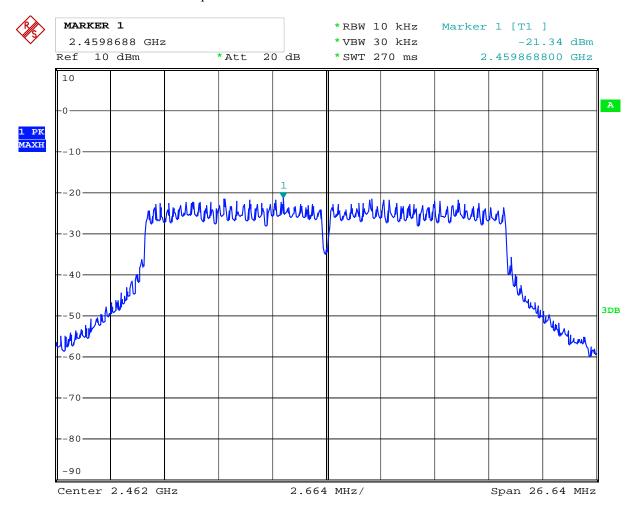
11. 802.11n at HT20 of CH06 65Mbps



24.APR.2014 15:42:07 Date:



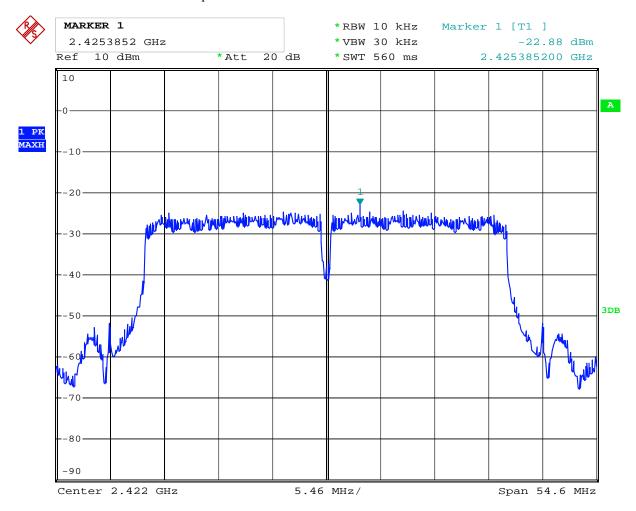
12. 802.11n at HT20 of CH11 65Mbps



24.APR.2014 15:41:31 Date:



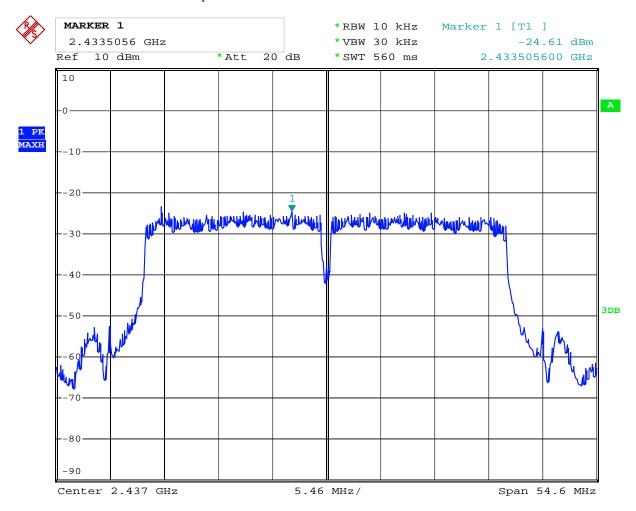
13. 802.11n at HT40 of CH01 65Mbps



24.APR.2014 15:52:11 Date:



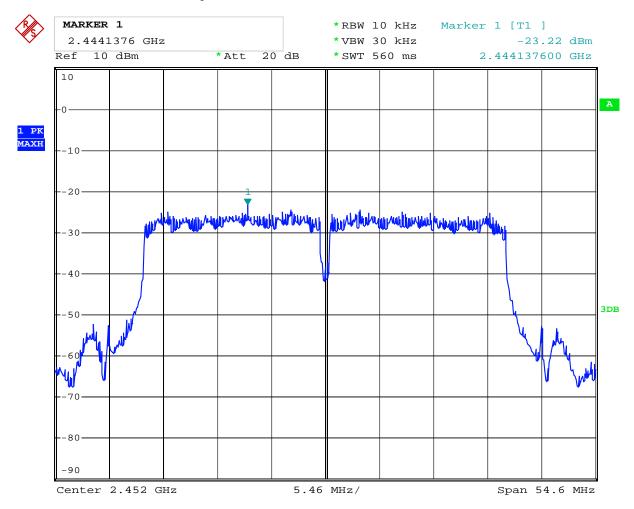
14. 802.11n at HT40 of CH04 65Mbps



24.APR.2014 15:52:51 Date:



15. 802.11n at HT40 of CH07 65Mbps

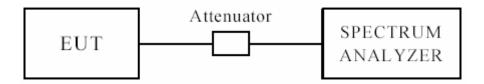


24.APR.2014 15:53:42 Date:



10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100kHz,VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.



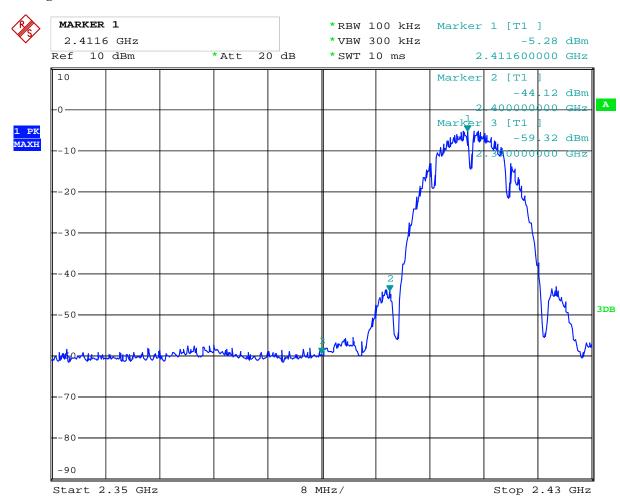
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727A-RK326
Mode	Keeping	Γransmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBµV/m)	48.26	Limit	74(dBµV/m)
2400MHZ	AV (dBμV/m)		Limit	54(dBµV/m)
2390MHz	PK (dBμV/m)	36.62	- Limit	74(dBµV/m)
	AV (dBμV/m)		Lillit	54(dBµV/m)

Test Figure:



Date: 24.APR.2014 16:02:10

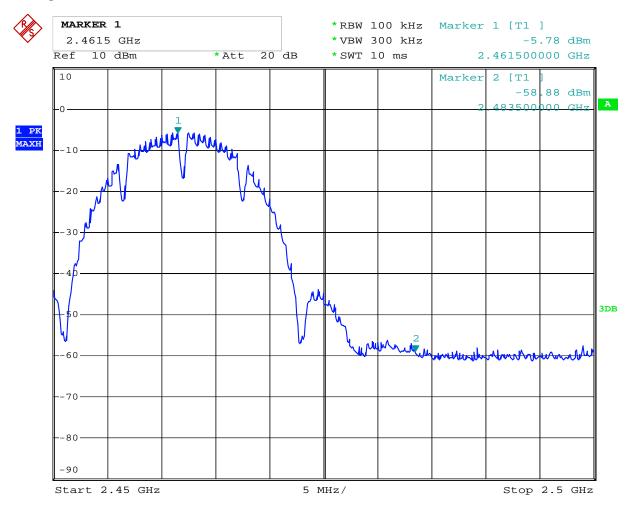


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	N	ИID	Model	MID727A-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2492.5	PK (dBμV/m)	42.15	Limit	74(dBμV/m)
2483.5	AV (dBμV/m)	AV (dBμV/m)		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 15:57:09



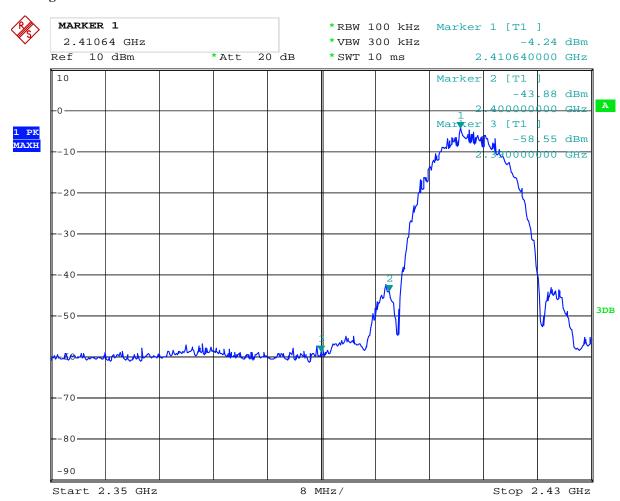
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727A-RK326
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBµV/m)	49.85	Limit	$74(dB\mu V/m)$
2400MHZ	AV (dBμV/m)		Liiiit	54(dBµV/m)
2390MHz	PK (dBµV/m)	37.08	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

Test Figure:



Date: 24.APR.2014 16:03:43

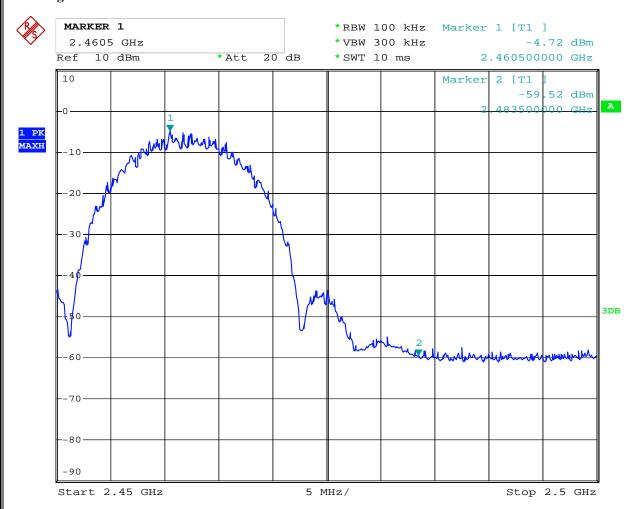


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	N	ИID	Model	MID727A-RK326
Mode	Keeping 7	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2492.5	PK (dBμV/m)	43.11	I imait	74(dBμV/m)
2483.5	AV (dBμV/m)		Limit	54(dBμV/m)

Test Figure:



Date: 24.APR.2014 15:58:48



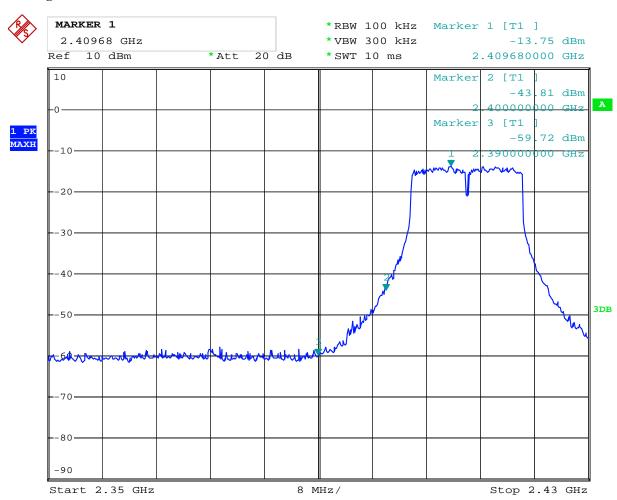
For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727A-RK326
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBµV/m)	51.11	Limit	74(dBμV/m)
2400MHZ	AV (dBμV/m)		Liiiit	$54(dB\mu V/m)$
2390MHz	PK (dBμV/m)	39.07	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

Test Figure:



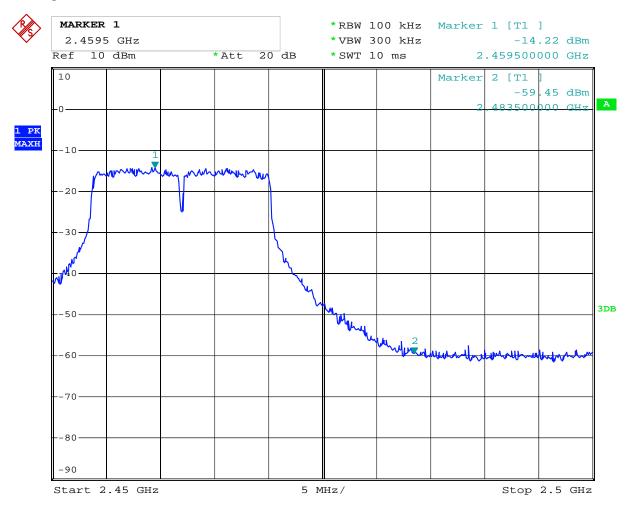
Date: 24.APR.2014 16:02:51

CH11 at 54Mbps

10.4 Band-edge Measurement

EUT	N	11D	Model	MID727A-RK326
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	43.86	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	54(dBμV/m)

Test Figure:



24.APR.2014 15:58:02 Date:



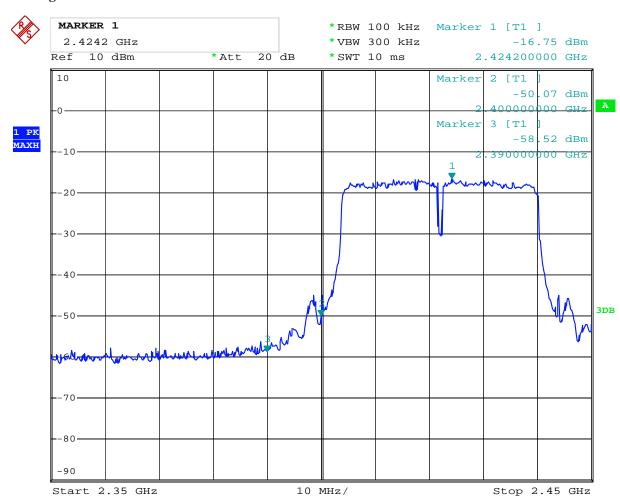
For 802.11n mode

CH01 at HT20 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727A-RK326
Mode	Keeping	Γransmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBµV/m)	51.12	Limit	$74(dB\mu V/m)$
2400МП2	AV (dBμV/m)		Lillit	54(dBµV/m)
2390MHz	PK (dBµV/m)	42.07	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

Test Figure:



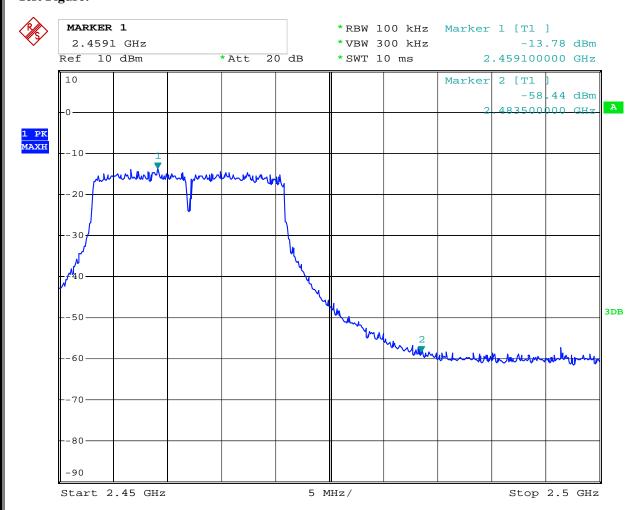
Date: 24.APR.2014 16:04:35

CH11 at HT20 65Mbps

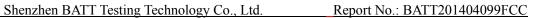
10.4 Band-edge Measurement

EUT	N	4ID	Model	MID727A-RK326
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2492.5	PK (dBµV/m)	43.72	Limit	74(dBμV/m)
2483.5	AV (dBμV/m)	V (dBμV/m)		54(dBμV/m)

Test Figure:



24.APR.2014 15:59:50 Date:



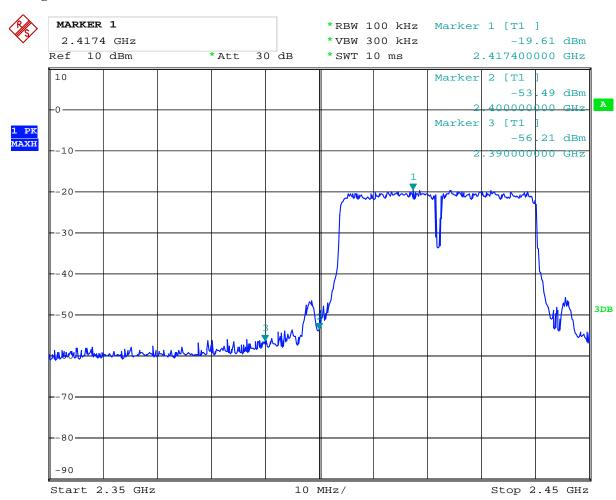
For 802.11n mode

CH01 at HT40 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727A-RK326
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	46.67	Limit	74(dBµV/m)
2400MHZ	AV (dBμV/m)		Limit	$54(dB\mu V/m)$
2390MHz	PK (dBμV/m)	39.22	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

Test Figure:



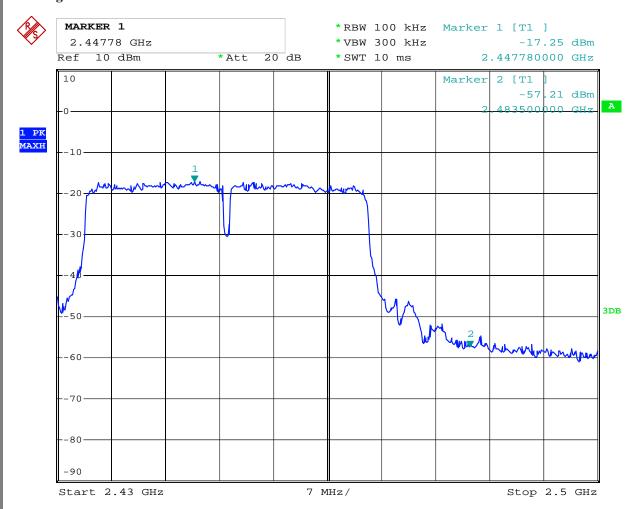
Date: 26.APR.2014 15:10:58

CH11 at HT40 65Mbps

10.4 Band-edge Measurement

EUT	N	4ID	Model	MID727A-RK326	
Mode	Keeping	Transmitting	Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2492.5	PK (dBµV/m)	45.23	Limit	74(dBμV/m)	
2483.5	AV (dBμV/m)	AV (dBμV/m)		$54(dB\mu V/m)$	

Test Figure:



24.APR.2014 15:56:08 Date:



11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral ar	itenna used.	The ma	ximum	Gain	of the	antennas	is 2.0dBi.
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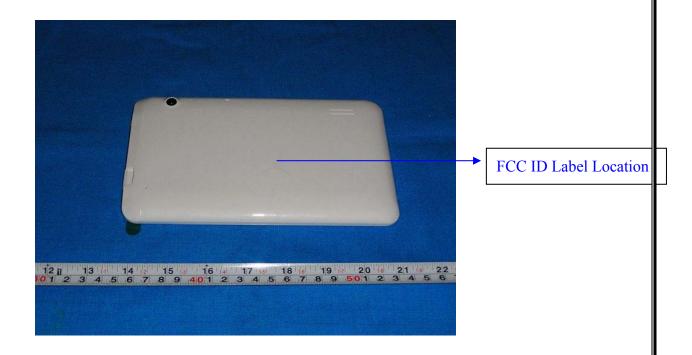
FCC ID Label 12.0

FCC ID: 2AAQZMID727A-RK326

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:





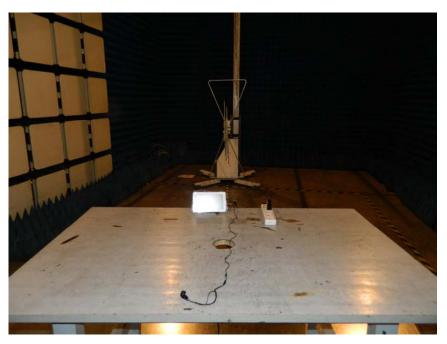
13 PHOTOGRAPHS OF THE TEST CONFIGURATION

Conducted Emissions





Radiated Emissions



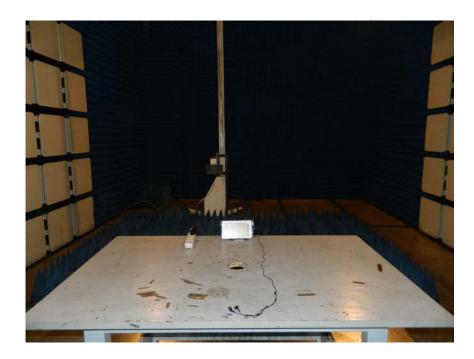






Photo 1



Photo 2

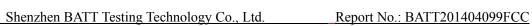




Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8





Photo 9

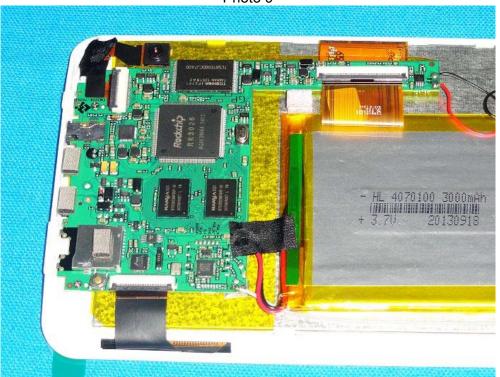


Photo 10



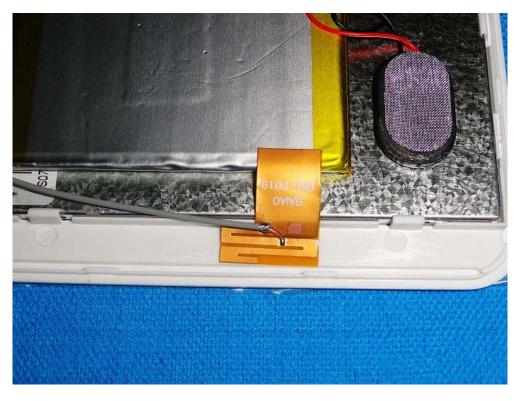


Photo 11



Photo 12



Photo 13



Photo 14



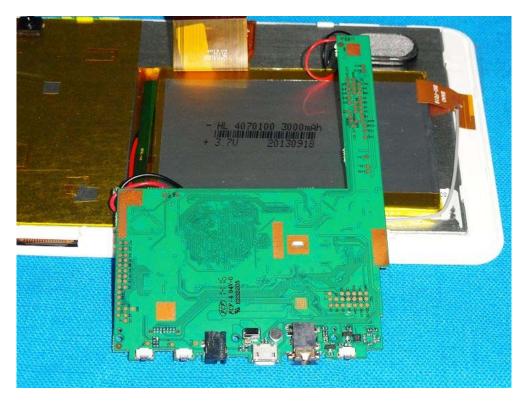


Photo 15



Photo 15 (Alternative Battery)

The Report End