



Т	EST REPORT
Report Reference No:	TRE1707007603 R/C: 76399
FCC ID:	QRP-AZUMIAX5
Applicant's name:	Azumi S.A
Address	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama
Manufacturer	AZUMI HK LTD
Address:	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG,HK
Test item description:	Mobile phone
Trade Mark	AZUMI
Model/Type reference:	AX5
Listed Model(s)	
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of receipt of test sample	Jul.11, 2017
Date of testing	Jul.12, 2017- Aug.10, 2017
Date of issue:	Aug.11, 2017
Result	PASS
Compiled by (position+printedname+signature):	File administrators Candy Liu
Supervised by (position+printedname+signature):	Project Engineer Lion Cai Gion Cai Moms Mu
Approved by (position+printedname+signature):	RF Manager Hans Hu
Testing Laboratory Name :	Shenzhen Huatongwei International Inspection Co., Ltd.
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013: American National Standard forTesting Unlicensed Wireless Devices

KDB 558074 D01 DTS Meas Guidance v03r05: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under § 15.247

1.2. Report version

Version No.	Date of issue	Description
00	Aug.11, 2017	Original

2. <u>Test Description</u>

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
Line Conducted Emission (AC Main)	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Power Spectral Density	15.247 (e)	Pass
6dB Bandwidth	15.247 (a)(2)	Pass
Restricted band	15.247(d)/15.205	Pass
Spurious Emission	15.247(d)/15.209	Pass

Note: The measurement uncertainty is not included in the test result.

3. <u>Summary</u>

3.1. Client Information

Applicant:	Azumi S.A
Address:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama
Manufacturer:	AZUMI HK LTD
Address:	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG,HK

3.2. Product Description

Name of EUT:	Mobile phone	Mobile phone		
Trade Mark:	AZUMI	AZUMI		
Model No.:	AX5			
Listed Model(s):	-			
Power supply:	DC 3.8V From int	ernal battery		
Adapter information:		Input: 100-240Va.c., 50/60Hz, 0.2A Output: 5Vd.c., 1A		
WIFI				
Supported type:	⊠802.11b	⊠802.11g	⊠802.11n(H20)	⊠802.11n(H40)
Modulation:		DSSS for 802.11b OFDM for 802.11g/802.11n(H20)/802.11n(H40)		
Operation frequency:		<u>2412MHz~2462MHz</u> for 802.11b/802.11g/802.11n(H20) <u>2422MHz~2452MHz</u> for 802.11n(H40)		
Channel number:		<u>11</u> for 802.11b/802.11g/802.11n(H20) <u>7</u> for 802.11n(H40)		
Channel separation:	5MHz	5MHz		
Antenna type:	Integral antenna	Integral antenna		
Antenna gain:	0 dBi			

3.3. Operation state

> <u>Test frequency list</u>

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g	802.11b/g/n(H20)		n(H40)
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	01	-
02	2417	02	-
03	2422	03	2422
04	2427	04	2427
05	2432	05	2432
06	2437	06	2437
07	2442	07	2442
08	2447	08	2447
09	2452	09	2452
10	2457	10	-
11	2462	11	-

Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For RF test axis

EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- supplied by the lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. <u>Test Environment</u>

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements .

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

Condu	ucted Emission (AC Main)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

Radia	ted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2016/11/13
10	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
11	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
14	TURNTABLE	MATURO	TT2.0		N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2016/11/13

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13
2	Power Meter	Anritsu	ML2480B	100798	2016/11/13
3	Power Sensor	Anritsu	MA2411B	100258	2016/11/13

The Cal.Interval was one year

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9 kHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9 kHz -40 GHz	2.20 dB	(1)
Conducted Emission 9 kHz -30 MHz	3.39 dB	(1)
Radiated Emission 30~1000 MHz	4.24 dB	(1)
Radiated Emissio 1~18 GHz	5.16 dB	(1)
Radiated Emissio 18-40 GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5. Test Conditions and Results

5.1. Antenna requirement

REQUIREMENT:

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

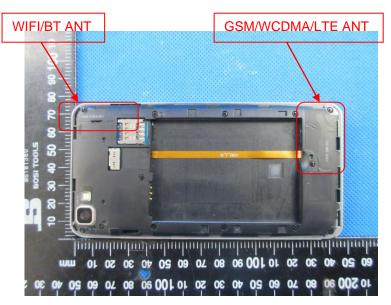
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

TEST RESULTS

☑ Passed □ Not Applicable

The antenna is integral antenna, the best case gain of the antenna is 0dBi, please refer to the below antenna photo.



5.2. Conducted Emission (AC Main)

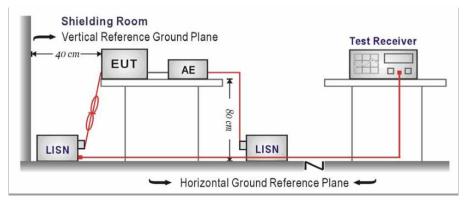
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Frequency range (MHz)	Limit (dBuV)				
Frequency range (Miriz)	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.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above theconducting ground plane. The vertical conducting plane was located 40 cm to the rear of theEUT. All other surfaces of EUT were at least 80 cm from any other grounded conductingsurface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were foldedback and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

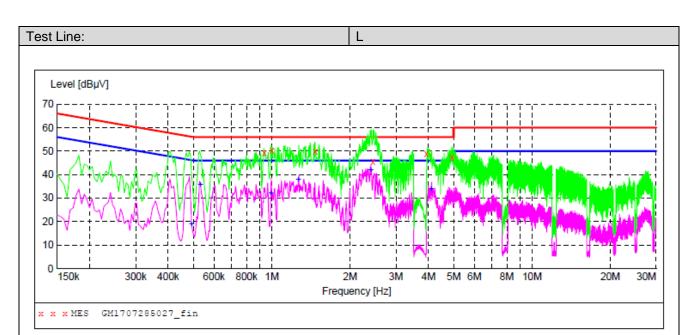
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level



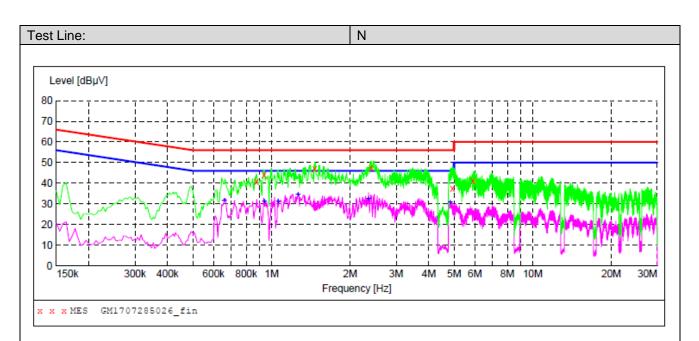
MEASUREMENT RESULT: "GM1707285027_fin"

7/28/2017 2:48PM Frequency Level Transd Limit Margin Detector Line PE

MHz	dBµV	dB	dBµV	dB			
0.937500	49.30	10.2	56	6.7	QP	L1	GND
1.000500	50.30	10.2	56	5.7	QP	L1	GND
1.473000	50.10	10.2	56	5.9	QP	г1	GND
2.449500	45.50	10.2	56	10.5	QP	ь1	GND
3.934500	48.70	10.3	56	7.3	QP	г1	GND
4.929000	47.40	10.3	56	8.6	QP	ь1	GND

MEASUREMENT RESULT: "GM1707285027_fin2"

7/28/2017 2:4 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.492000	18.90	10.2	46	27.2	AV	L1	GND
0.532500	35.70	10.2	46	10.3	AV	L1	GND
0.991500	32.10	10.2	46	13.9	AV	L1	GND
1.266000	37.70	10.2	46	8.3	AV	L1	GND
2.400000	41.80	10.2	46	4.2	AV	L1	GND
4.101000	33.90	10.3	46	12.1	AV	ь1	GND



MEASUREMENT RESULT: "GM1707285026 fin"

7/28/2017 2:45PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.87450040.9010.15615.1QP0.93750044.3010.25611.7QP1.46400046.9010.2569.1QP2.40900047.5010.2568.5QP4.93350037.5010.35618.5QP5.91900041.2010.36018.8QP GND Ν Ν GND N GND Ν GND N GND N GND

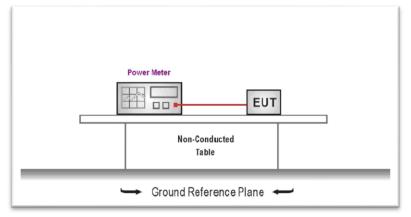
MEASUREMENT RESULT: "GM1707285026 fin2"

7/28/2017 2: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.658500	31.50	10.2	46	14.5	AV	N	GND
0.937500	31.00	10.2	46	15.0	AV	N	GND
1.059000	31.00	10.2	46	15.0	AV	N	GND
1.261500	34.60	10.2	46	11.4	AV	N	GND
2.346000	32.50	10.2	46	13.5	AV	N	GND
4.834500	30.70	10.3	46	15.3	AV	N	GND

5.3. Conducted Peak Output Power LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): **30dBm**:

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

🛛 Passed

Not Applicable

Туре	Channel	Output power (dBm)	Limit (dBm)	Result	
	01	13.54			
802.11b	06	13.80	30.00	Pass	
	11	13.54	54		
	01	13.83			
802.11g	06	14.29	30.00	Pass	
	11	13.93			
	01	13.99			
802.11n(H20)	06	14.19	30.00	Pass	
	11	13.76			
	03	14.14			
802.11n(H40)	06	13.67	30.00	Pass	
	09	13.19			

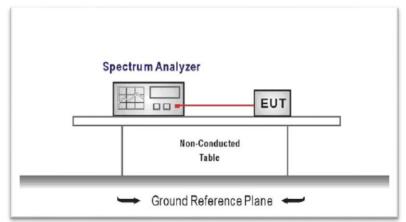
5.4. Power Spectral Density

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

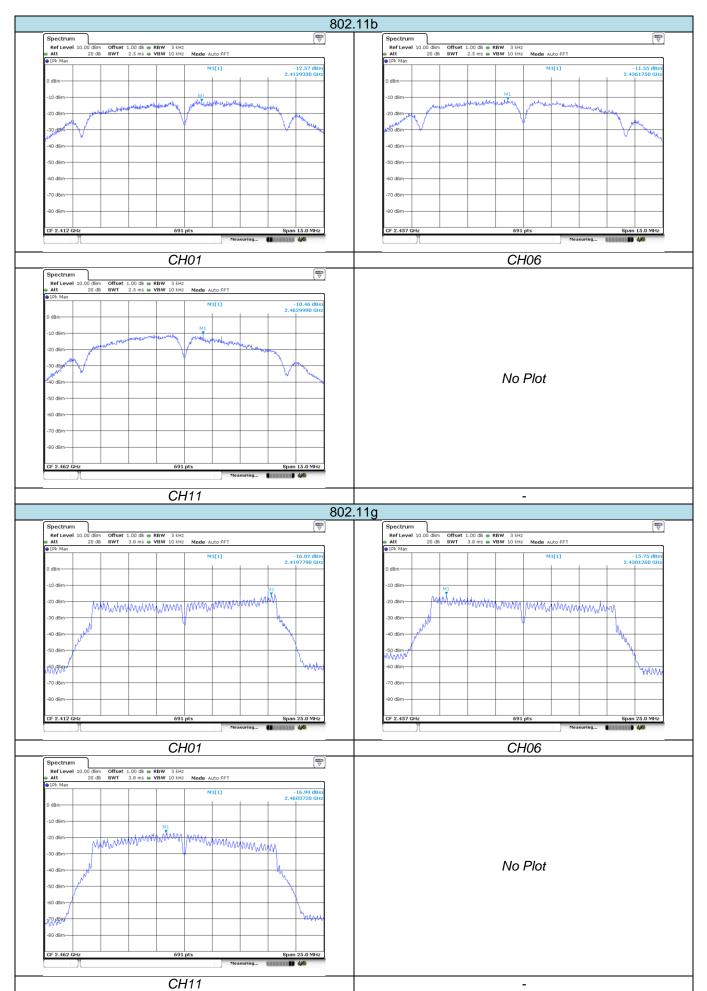
Please refer to the clause 3.3

TEST RESULTS

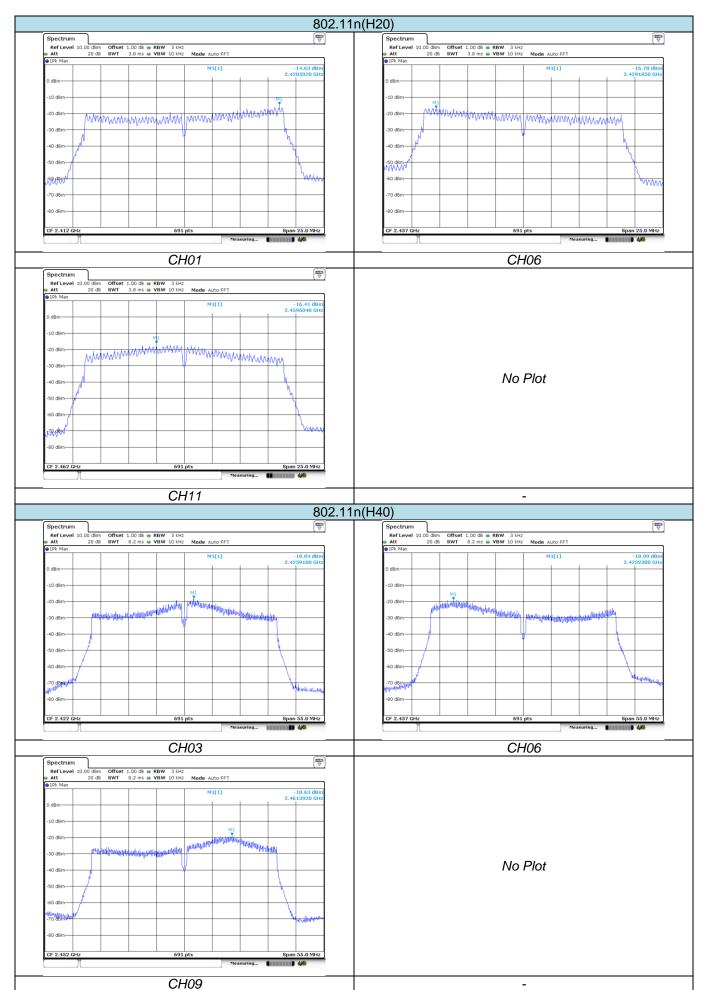
☑ Passed □ Not Applicable

Туре	Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result	
	01	-12.57			
802.11b	06	-11.55	8.00	Pass	
	11	-10.46			
	01	-16.02			
802.11g	06	-15.75	8.00	Pass	
	11	-16.99			
	01	-14.63			
802.11n(H20)	06	-16.78	8.00	Pass	
	11	-16.41			
	03	-18.04			
802.11n(H40)	06	-18.99	8.00	Pass	
	09	-18.63			

Test plot as follows:



Report Template Version: H00 (2016-08)



Report Template Version: H00 (2016-08)

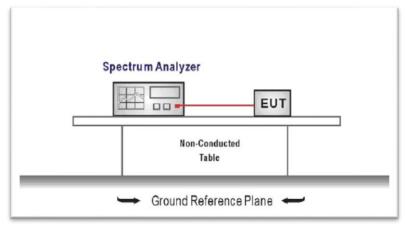
5.5. 6dB bandwidthand

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency Span=2 x DTS bandwidth RBW = 100 kHz, VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

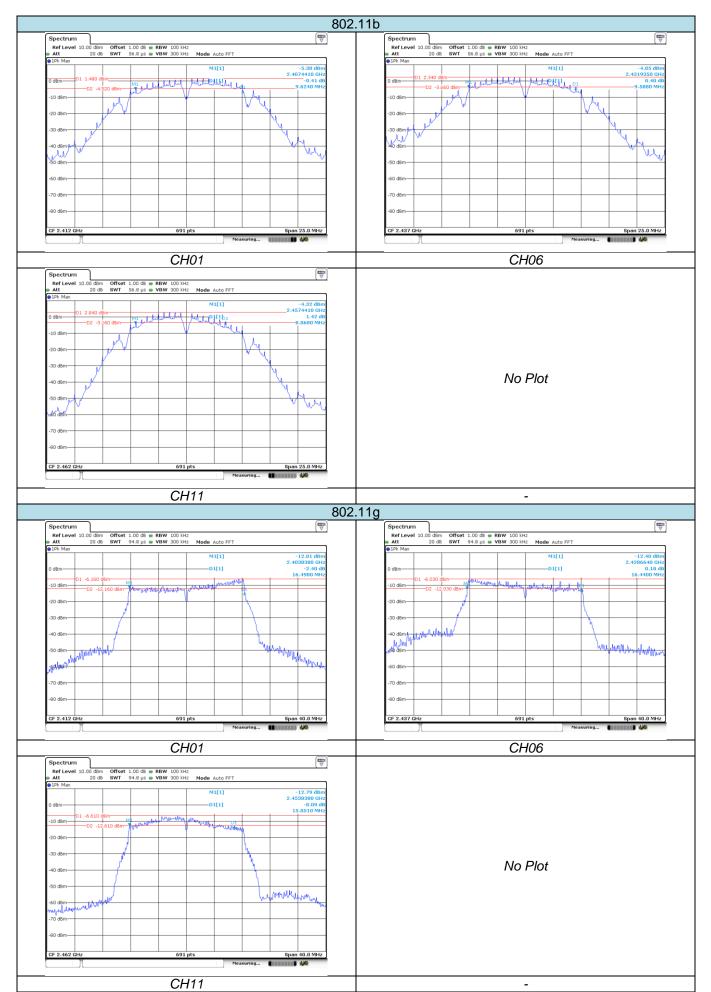
Please refer to the clause 3.3

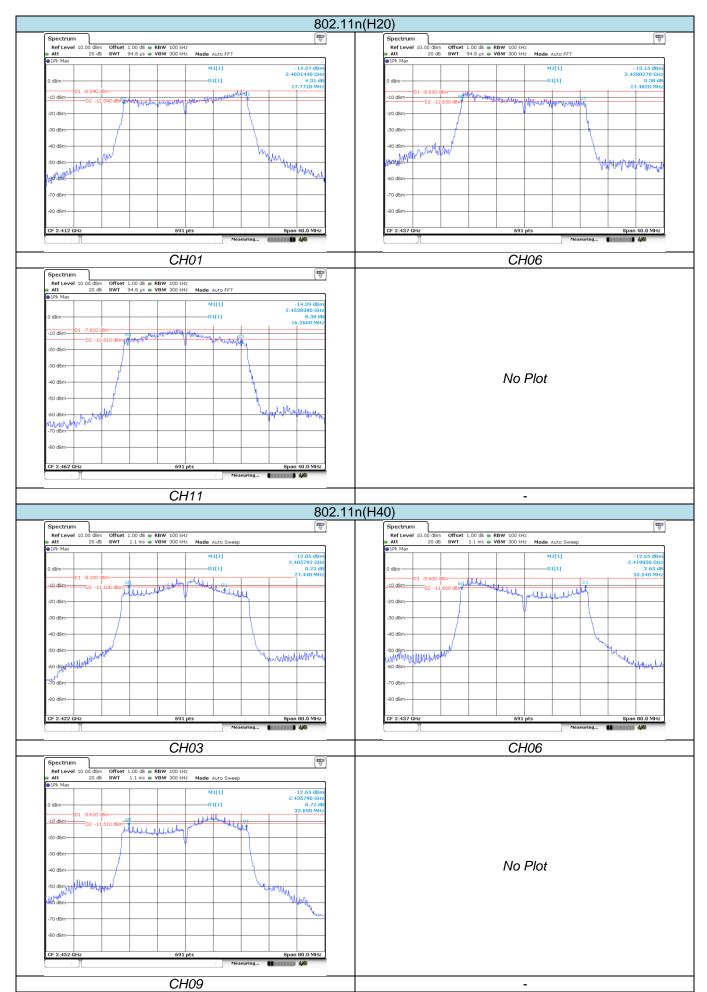
TEST RESULTS

☑ Passed □ Not Applicable

Туре	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result	
	01	9.62			
802.11b	06	9.59	≥500	Pass	
	11	8.07			
	01	16.50			
802.11g	06	16.44	≥500	Pass	
	11	15.05			
	01	17.77			
802.11n(H20)	06	17.48	≥500	Pass	
	11	16.27			
	03	27.44			
802.11n(H40)	06	35.54	≥500	Pass	
	09	33.69			

Test plot as follows:





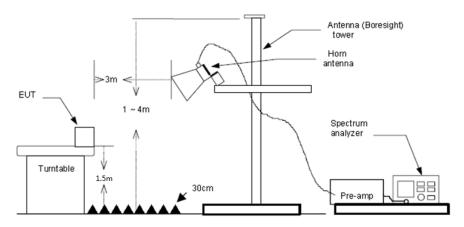
5.6. Restricted band

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2) The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3) The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4) The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz for Peak value RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	26.92	28.05	6.62	0.00	61.59	74.00	-12.41	Vertical	
2390.04	26.01	27.65	6.75	0.00	60.41	74.00	-13.59	Vertical	Peak
2310.00	25.18	28.05	6.62	0.00	59.85	74.00	-14.15	Horizontal	reak
2390.04	26.43	27.65	6.75	0.00	60.83	74.00	-13.17	Horizontal	
2310.00	12.75	28.05	6.62	0.00	47.42	54.00	-6.58	Vertical	
2390.04	12.46	27.65	6.75	0.00	46.86	54.00	-7.14	Vertical	Average
2310.00	12.75	28.05	6.62	0.00	47.42	54.00	-6.58	Horizontal	Average
2390.04	12.45	27.65	6.75	0.00	46.85	54.00	-7.15	Horizontal	

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	25.31	27.26	6.83	0.00	59.40	74.00	-14.60	Vertical	
2500.00	26.03	27.20	6.84	0.00	60.07	74.00	-13.93	Vertical	Peak
2483.49	26.12	27.26	6.83	0.00	60.21	74.00	-13.79	Horizontal	reak
2500.00	26.63	27.20	6.84	0.00	60.67	74.00	-13.33	Horizontal	
2483.49	12.42	27.26	6.83	0.00	46.51	54.00	-7.49	Vertical	
2500.00	12.41	27.20	6.84	0.00	46.45	54.00	-7.55	Vertical	
2483.49	12.42	27.26	6.83	0.00	46.51	54.00	-7.49	Horizontal	Average
2500.00	12.39	27.20	6.84	0.00	46.43	54.00	-7.57	Horizontal	

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	17.98	28.05	6.62	0.00	52.65	74.00	-21.35	Vertical	
2390.04	16.52	27.65	6.75	0.00	50.92	74.00	-23.08	Vertical	Peak
2310.00	16.77	28.05	6.62	0.00	51.44	74.00	-22.56	Horizontal	reak
2390.04	17.83	27.65	6.75	0.00	52.23	74.00	-21.77	Horizontal	
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Vertical	
2390.04	10.69	27.65	6.75	0.00	45.09	54.00	-8.91	Vertical	Average
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Horizontal	Average
2390.04	10.71	27.65	6.75	0.00	45.11	54.00	-8.89	Horizontal	

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	17.55	27.26	6.83	0.00	51.64	74.00	-22.36	Vertical	
2500.00	18.16	27.20	6.84	0.00	52.20	74.00	-21.80	Vertical	Peak
2483.49	16.75	27.26	6.83	0.00	50.84	74.00	-23.16	Horizontal	reak
2500.00	16.87	27.20	6.84	0.00	50.91	74.00	-23.09	Horizontal	
2483.49	10.75	27.26	6.83	0.00	44.84	54.00	-9.16	Vertical	
2500.00	10.68	27.20	6.84	0.00	44.72	54.00	-9.28	Vertical	Average
2483.49	10.75	27.26	6.83	0.00	44.84	54.00	-9.16	Horizontal	Average
2500.00	10.66	27.20	6.84	0.00	44.70	54.00	-9.30	Horizontal	

802.11n(H2	0)				CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	16.31	28.05	6.62	0.00	50.98	74.00	-23.02	Vertical	
2390.01	16.28	27.65	6.75	0.00	50.68	74.00	-23.32	Vertical	Peak
2310.00	17.39	28.05	6.62	0.00	52.06	74.00	-21.94	Horizontal	reak
2390.01	17.63	27.65	6.75	0.00	52.03	74.00	-21.97	Horizontal	
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Vertical	
2390.01	10.77	27.65	6.75	0.00	45.17	54.00	-8.83	Vertical	Average
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Horizontal	Average
2390.01	10.94	27.65	6.75	0.00	45.34	54.00	-8.66	Horizontal	

802.11n(H2	0)				CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	17.88	27.26	6.83	0.00	51.97	74.00	-22.03	Vertical	
2500.00	17.09	27.20	6.84	0.00	51.13	74.00	-22.87	Vertical	Peak
2483.49	17.54	27.26	6.83	0.00	51.63	74.00	-22.37	Horizontal	геак
2500.00	16.88	27.20	6.84	0.00	50.92	74.00	-23.08	Horizontal	
2483.49	10.78	27.26	6.83	0.00	44.87	54.00	-9.13	Vertical	
2500.00	10.67	27.20	6.84	0.00	44.71	54.00	-9.29	Vertical	Average
2483.49	10.79	27.26	6.83	0.00	44.88	54.00	-9.12	Horizontal	Average
2500.00	10.68	27.20	6.84	0.00	44.72	54.00	-9.28	Horizontal	

802.11n(H4	0)				CH03				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	17.91	28.05	6.62	0.00	52.58	74.00	-21.42	Vertical	
2389.99	17.73	27.65	6.75	0.00	52.13	74.00	-21.87	Vertical	Peak
2310.00	17.22	28.05	6.62	0.00	51.89	74.00	-22.11	Horizontal	reak
2389.99	17.16	27.65	6.75	0.00	51.56	74.00	-22.44	Horizontal	
2310.00	11.14	28.05	6.62	0.00	45.81	54.00	-8.19	Vertical	
2389.99	10.76	27.65	6.75	0.00	45.16	54.00	-8.84	Vertical	Average
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Horizontal	Average
2389.99	10.79	27.65	6.75	0.00	45.19	54.00	-8.81	Horizontal	

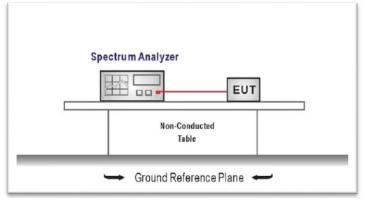
802.11n(H4	0)				CH09				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	18.45	27.26	6.83	0.00	52.54	74.00	-21.46	Vertical	
2500.00	17.53	27.20	6.84	0.00	51.57	74.00	-22.43	Vertical	Peak
2483.50	18.33	27.26	6.83	0.00	52.42	74.00	-21.58	Horizontal	reak
2500.00	18.01	27.20	6.84	0.00	52.05	74.00	-21.95	Horizontal	
2483.50	11.06	27.26	6.83	0.00	45.15	54.00	-8.85	Vertical	
2500.00	10.82	27.20	6.84	0.00	44.86	54.00	-9.14	Vertical	
2483.50	11.43	27.26	6.83	0.00	45.52	54.00	-8.48	Horizontal	Average
2500.00	10.78	27.20	6.84	0.00	44.82	54.00	-9.18	Horizontal	

5.7. Band edge and Spurious Emission (conducted)

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Establish a reference level by using the following procedure Center frequency=DTS channel center frequency The span = 1.5 times the DTS bandwidth. RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum PSD level

Note: the channel found to contain the maximum PSD level can be used to establish the reference level.

 Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level.

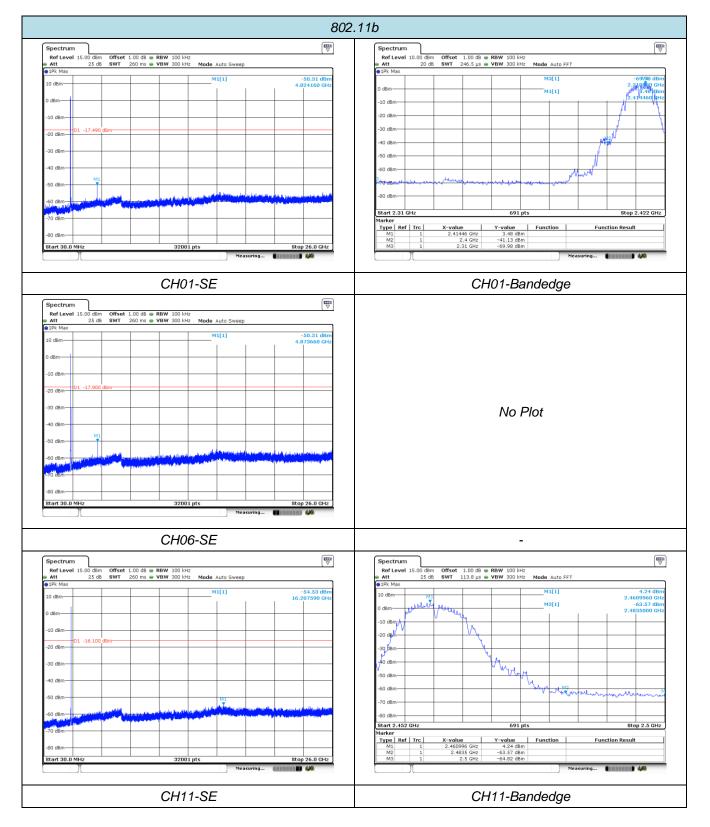
- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 5. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emissions relative to the limit.

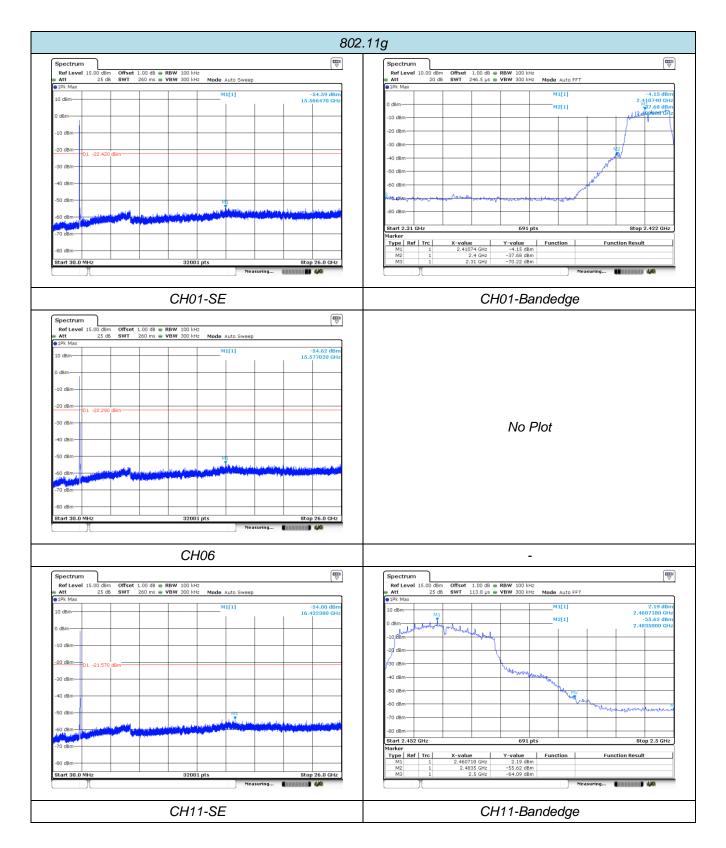
TEST MODE:

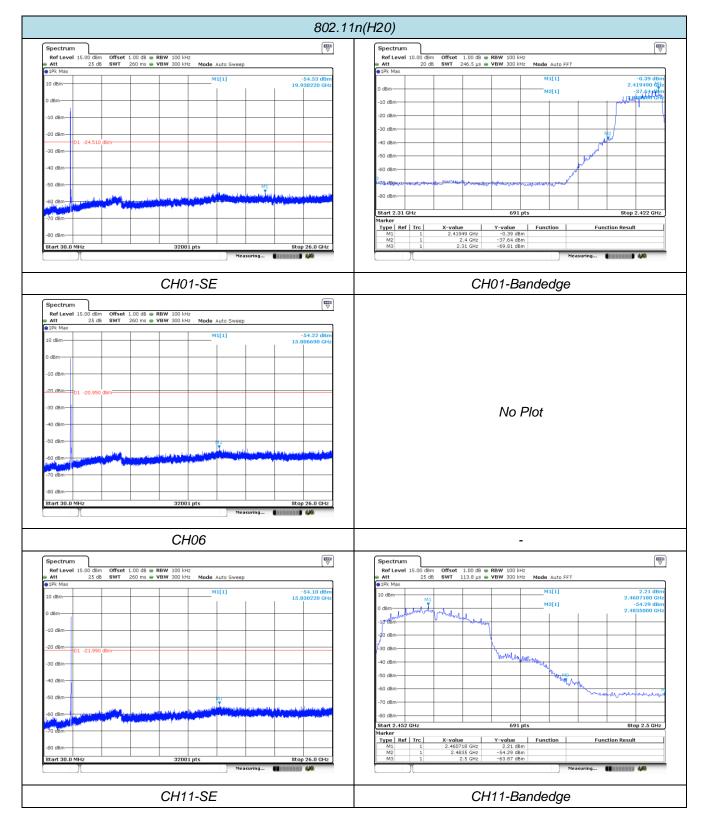
Please refer to the clause 3.3

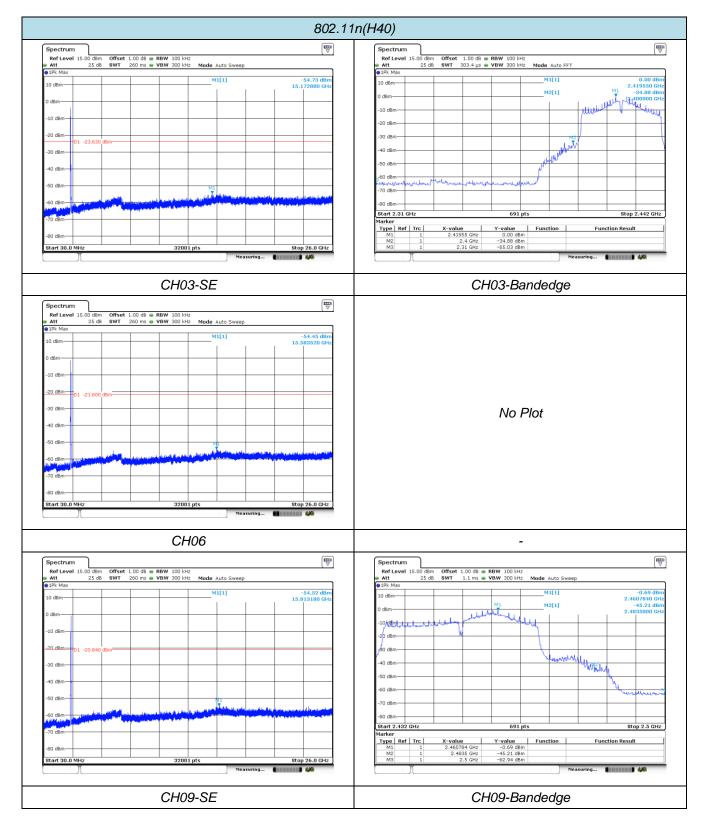
TEST RESULTS

☑ Passed □ Not Applicable









5.8. Spurious Emission (radiated)

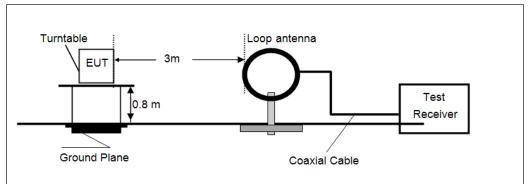
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

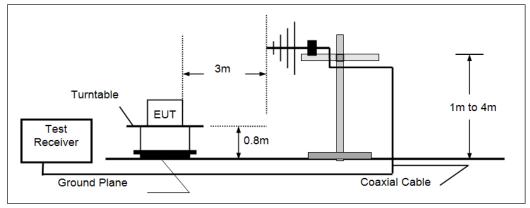
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
A6000 TOTI2	74.00	Peak

TEST CONFIGURATION

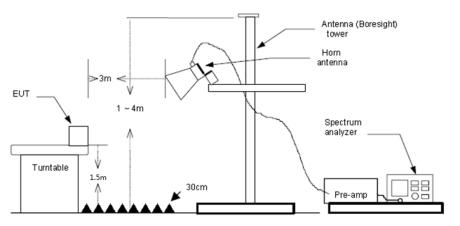
> 9kHz ~30MHz



> 30MHz ~ 1GHz



Above 1GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120kHz, VBW=300kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value
 - RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

🛛 Passed

Not Applicable

Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

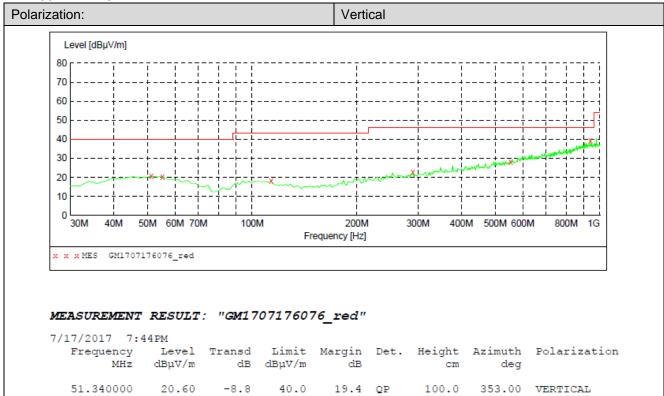
> 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9kHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

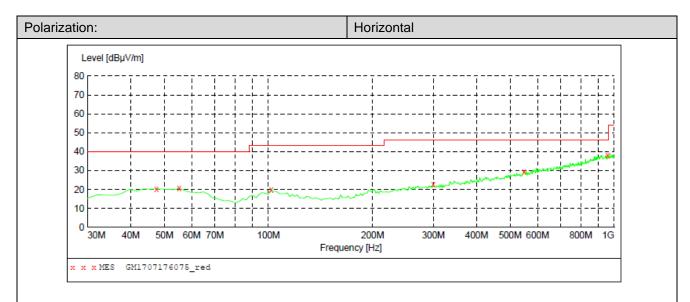
> 30MHz ~1000MHz

Have pre-scan all modulation mode, found the 802.11g mode CH06 which it was worst case, so only the worst case's data on the test report.

> 30MHz ~ 1GHz



51.340000	20.60	-8.8	40.0	19.4	QP	100.0	353.00	VERTICAL
55.220000	20.30	-9.2	40.0	19.7	QP	100.0	324.00	VERTICAL
113.420000	18.10	-11.3	43.5	25.4	QP	100.0	63.00	VERTICAL
289.960000	22.80	-7.4	46.0	23.2	QP	100.0	359.00	VERTICAL
553.800000	28.30	-0.7	46.0	17.7	QP	100.0	6.00	VERTICAL
937.920000	39.30	7.1	46.0	6.7	QP	100.0	212.00	VERTICAL



MEASUREMENT RESULT: "GM1707176075_red"

7/17/2	017 7:4	2PM							
Fre	quency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.	460000	20.40	-8.8	40.0	19.6	QP	100.0	65.00	HORIZONTAL
55.	220000	20.80	-9.2	40.0	19.2	QP	100.0	76.00	HORIZONTAL
101.	780000	19.90	-10.5	43.5	23.6	QP	300.0	127.00	HORIZONTAL
299.	660000	22.80	-7.3	46.0	23.2	QP	300.0	352.00	HORIZONTAL
547.	980000	29.60	-0.8	46.0	16.4	QP	300.0	7.00	HORIZONTAL
957.	320000	38.00	7.3	46.0	8.0	QP	100.0	0.00	HORIZONTAL

> Above 1 GHz

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1800.42	36.34	25.40	5.96	37.14	30.56	74.00	-43.44	Vertical	
3057.17	36.92	28.72	7.55	38.22	34.97	74.00	-39.03	Vertical	
4821.76	43.58	31.56	9.55	36.90	47.79	74.00	-26.21	Vertical	
7432.62	31.74	36.23	12.18	34.85	45.30	74.00	-28.70	Vertical	Peak
1340.09	35.24	26.08	4.90	36.49	29.73	74.00	-44.27	Horizontal	reak
3747.66	34.93	29.44	8.44	38.24	34.57	74.00	-39.43	Horizontal	
4821.76	35.08	31.56	9.55	36.90	39.29	74.00	-34.71	Horizontal	
7376.08	32.45	36.30	12.04	34.85	45.94	74.00	-28.06	Horizontal	

802.11b					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1719.78	35.89	25.24	5.80	36.97	29.96	74.00	-44.04	Vertical	
3057.17	36.62	28.72	7.55	38.22	34.67	74.00	-39.33	Vertical	
4871.10	39.55	31.46	9.59	36.76	43.84	74.00	-30.16	Vertical	
7527.83	33.04	36.13	12.49	34.92	46.74	74.00	-27.26	Vertical	Peak
1525.86	36.97	25.56	5.36	36.62	31.27	74.00	-42.73	Horizontal	reak
3507.65	37.19	29.02	8.13	38.40	35.94	74.00	-38.06	Horizontal	
4871.10	36.30	31.46	9.59	36.76	40.59	74.00	-33.41	Horizontal	
8022.46	33.60	37.08	12.35	34.53	48.50	74.00	-25.50	Horizontal	

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2235.33	35.85	27.72	6.50	37.44	32.63	74.00	-41.37	Vertical	
3200.50	36.30	28.80	7.72	38.20	34.62	74.00	-39.38	Vertical	
4920.96	42.10	31.42	9.62	36.62	46.52	74.00	-27.48	Vertical	
7227.39	32.04	36.23	11.89	35.04	45.12	74.00	-28.88	Vertical	Peak
1741.81	35.89	25.29	5.85	37.02	30.01	74.00	-43.99	Horizontal	reak
3607.26	35.01	29.30	8.28	38.27	34.32	74.00	-39.68	Horizontal	
5138.58	32.82	31.74	9.78	36.26	38.08	74.00	-35.92	Horizontal	
8022.46	32.27	37.08	12.35	34.53	47.17	74.00	-26.83	Horizontal	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1706.70	36.46	25.21	5.78	36.94	30.51	74.00	-43.49	Vertical	
3863.90	36.60	29.66	8.59	38.19	36.66	74.00	-37.34	Vertical	
5747.59	33.29	31.84	10.51	35.46	40.18	74.00	-33.82	Vertical	
10011.21	32.19	39.10	13.54	33.25	51.58	74.00	-22.42	Vertical	Peak
2140.66	35.40	27.03	6.39	37.33	31.49	74.00	-42.51	Horizontal	reak
3080.60	36.50	28.76	7.58	38.22	34.62	74.00	-39.38	Horizontal	
4652.95	34.29	31.06	9.48	37.16	37.67	74.00	-36.33	Horizontal	
6172.20	33.28	32.79	10.96	35.31	41.72	74.00	-32.28	Horizontal	

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2235.33	36.10	27.72	6.50	37.44	32.88	74.00	-41.12	Vertical	
3709.69	37.14	29.33	8.40	38.25	36.62	74.00	-37.38	Vertical	
4871.10	39.56	31.46	9.59	36.76	43.85	74.00	-30.15	Vertical	
6886.15	31.71	34.60	11.71	34.90	43.12	74.00	-30.88	Vertical	Peak
1680.83	36.04	25.14	5.73	36.89	30.02	74.00	-43.98	Horizontal	reak
3135.99	36.87	28.80	7.64	38.21	35.10	74.00	-38.90	Horizontal	
4664.81	34.22	31.10	9.49	37.14	37.67	74.00	-36.33	Horizontal	
7227.39	31.24	36.23	11.89	35.04	44.32	74.00	-29.68	Horizontal	

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1805.01	35.37	25.39	5.97	37.14	29.59	74.00	-44.41	Vertical	
3728.63	36.14	29.39	8.42	38.24	35.71	74.00	-38.29	Vertical	
4920.96	35.13	31.42	9.62	36.62	39.55	74.00	-34.45	Vertical	
7319.96	31.81	36.30	11.99	34.92	45.18	74.00	-28.82	Vertical	Peak
1689.41	36.18	25.17	5.74	36.91	30.18	74.00	-43.82	Horizontal	reak
4096.88	35.54	29.89	8.86	37.89	36.40	74.00	-37.60	Horizontal	
5151.68	34.22	31.69	9.79	36.25	39.45	74.00	-34.55	Horizontal	
6412.43	32.87	33.39	11.01	35.31	41.96	74.00	-32.04	Horizontal	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

802.11n(H2	02.11n(H20) CH01									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value	
1764.12	35.47	25.33	5.89	37.06	29.63	74.00	-44.37	Vertical		
3516.59	36.40	29.05	8.14	38.39	35.20	74.00	-38.80	Vertical		
4834.05	37.53	31.53	9.56	36.86	41.76	74.00	-32.24	Vertical		
7209.02	31.55	36.21	11.87	35.07	44.56	74.00	-29.44	Vertical	Peak	
1395.80	35.34	25.91	4.99	36.46	29.78	74.00	-44.22	Horizontal	reak	
3844.28	34.89	29.64	8.56	38.20	34.89	74.00	-39.11	Horizontal		
6063.19	32.00	32.50	10.78	35.40	39.88	74.00	-34.12	Horizontal		
8927.68	31.92	37.83	13.23	34.36	48.62	74.00	-25.38	Horizontal		

802.11n(H2	0)				CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2229.65	36.31	27.68	6.49	37.42	33.06	74.00	-40.94	Vertical	
3033.91	36.81	28.67	7.52	38.22	34.78	74.00	-39.22	Vertical	
4883.52	34.40	31.43	9.59	36.73	38.69	74.00	-35.31	Vertical	
6713.08	32.65	34.17	11.50	35.15	43.17	74.00	-30.83	Vertical	Deek
1711.05	36.36	25.22	5.79	36.95	30.42	74.00	-43.58	Horizontal	Peak
3543.55	36.45	29.13	8.18	38.35	35.41	74.00	-38.59	Horizontal	
4547.56	34.23	30.80	9.37	37.32	37.08	74.00	-36.92	Horizontal	
7063.69	31.79	35.49	11.85	34.88	44.25	74.00	-29.75	Horizontal	

802.11n(H20) CH11									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2195.85	35.93	27.47	6.44	37.34	32.50	74.00	-41.50	Vertical	
3498.74	37.18	28.99	8.11	38.41	35.87	74.00	-38.13	Vertical	
4920.96	37.81	31.42	9.62	36.62	42.23	74.00	-31.77	Vertical	
7009.96	32.31	35.33	11.85	34.80	44.69	74.00	-29.31	Vertical	Peak
1741.81	35.38	25.29	5.85	37.02	29.50	74.00	-44.50	Horizontal	reak
3644.18	34.81	29.30	8.32	38.26	34.17	74.00	-39.83	Horizontal	
5034.99	32.83	31.64	9.70	36.37	37.80	74.00	-36.20	Horizontal	
7117.84	31.23	35.71	11.86	34.96	43.84	74.00	-30.16	Horizontal	

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

802.11n(H4	802.11n(H40) CH03									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value	
1755.16	35.50	25.31	5.87	37.05	29.63	74.00	-44.37	Vertical		
4045.06	34.61	29.79	8.82	38.01	35.21	74.00	-38.79	Vertical		
4846.37	34.99	31.51	9.57	36.83	39.24	74.00	-34.76	Vertical		
6833.77	32.35	34.24	11.64	34.96	43.27	74.00	-30.73	Vertical	Peak	
1689.41	35.87	25.17	5.74	36.91	29.87	74.00	-44.13	Horizontal	reak	
3824.76	35.90	29.62	8.53	38.22	35.83	74.00	-38.17	Horizontal		
5047.83	33.33	31.69	9.71	36.35	38.38	74.00	-35.62	Horizontal		
7376.08	31.99	36.30	12.04	34.85	45.48	74.00	-28.52	Horizontal		

802.11n(H4	0)				CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1759.64	36.52	25.32	5.88	37.06	30.66	74.00	-43.34	Vertical	
3128.01	36.66	28.80	7.63	38.21	34.88	74.00	-39.12	Vertical	
4664.81	34.61	31.10	9.49	37.14	38.06	74.00	-35.94	Vertical	
6662.01	33.11	34.20	11.43	35.25	43.49	74.00	-30.51	Vertical	Deek
2229.65	35.07	27.68	6.49	37.42	31.82	74.00	-42.18	Horizontal	Peak
4055.37	34.72	29.81	8.82	37.98	35.37	74.00	-38.63	Horizontal	
6662.01	31.48	34.20	11.43	35.25	41.86	74.00	-32.14	Horizontal	
8859.77	31.60	37.76	13.16	34.32	48.20	74.00	-25.80	Horizontal	

802.11n(H4	802.11n(H40) CH09									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value	
1706.70	35.27	25.21	5.78	36.94	29.32	74.00	-44.68	Vertical		
3010.83	35.73	28.62	7.49	38.23	33.61	74.00	-40.39	Vertical		
5125.52	33.37	31.80	9.77	36.27	38.67	74.00	-35.33	Vertical		
7547.01	31.58	36.15	12.55	34.94	45.34	74.00	-28.66	Vertical	Peak	
1510.40	34.74	25.70	5.31	36.60	29.15	74.00	-44.85	Horizontal	reak	
3200.50	35.41	28.80	7.72	38.20	33.73	74.00	-40.27	Horizontal		
4213.21	35.14	30.03	8.95	37.64	36.48	74.00	-37.52	Horizontal		
5504.17	32.82	31.90	10.20	36.32	38.60	74.00	-35.40	Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

6. Test Setup Photos of the EUT

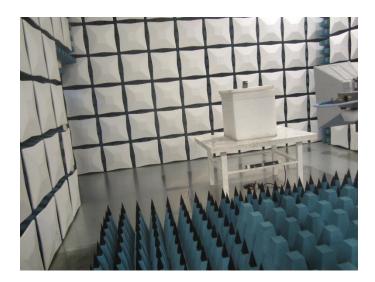
Conducted Emission



Radiated Emission







7. External and Internal Photos of the EUT

Reference to Test Report No.: TRE1707007601.

.....End of Report.....