



TEST REPORT

Report Reference No. : TRE1711008803 R/C : 91920

FCC ID : ZSW-30-051

Applicant's name : b mobile HK Limited

Address : Flat 18; 14/F Block 1; Golden Industrial Building; 16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

Manufacturer : b mobile HK Limited

Address : Flat 18; 14/F Block 1; Golden Industrial Building; 16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

Test item description : Mobile Phone

Trade Mark : Bmobile, ÖWN

Model/Type reference : AX686

Listed Model(s) : FUN4

Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample : Nov.15, 2017

Date of testing : Nov.16, 2017 - Nov.26, 2017

Date of issue : Nov.27, 2017

Result : PASS

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Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test 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 for Testing Unlicensed Wireless Devices

[KDB 558074 D01 DTS Meas Guidance v04](#): 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	Nov.27, 2017	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	Pass	William Wang
Line Conducted Emissions (AC Main)	15.207	Pass	William Wang
Conducted Peak Output Power	15.247(b)(3)	Pass	Baozhu Hu
Power Spectral Density	15.247(e)	Pass	Baozhu Hu
6dB Bandwidth	15.247(a)(2)	Pass	Baozhu Hu
Restricted band	15.247(d)/15.205	Pass	Baozhu Hu
Spurious Emissions	15.247(d)/15.209	Pass	Baozhu Hu

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

3. SUMMARY

3.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	Bmobile, ÖWN
Model No.:	AX686
Listed Model(s):	FUN4
IMEI:	357422080000313
Power supply:	DC 3.7V From exchange battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.15A Output: 5Vd.c.,500mA
Hardware version:	V01
Software version:	OWN_FUN4_CL_V004
WIFI	
Supported type:	802.11b/802.11g/802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz
Channel number:	11
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	-0.3 dBi

3.3. Operation state

➤ Test frequency list

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/n(HT20)	
Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

➤ 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 Radiated suprious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The 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

○	/	Manufacturer:	/
		Model No.:	/
○	/	Manufacturer:	/
		Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

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

4.2. Test Facility

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.

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 with Registration No.: 5377B-1.

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. Environmental conditions

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

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

4.4. 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 in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to 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.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)

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

4.5. Equipments Used during the Test

Conducted Emissions					
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	-	-

Radiated Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI test receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13
2	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
3	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
4	Horn antenna	ShwarzBeck	9120D	1011	2016/11/13
5	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
6	Amplifier	Sonoma	310N	E009-13	2016/11/13
7	JS Amplifier	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
8	Amplifier	Compliance Direction systems	PAP1-4060	120	2016/11/13
9	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
10	EMI test Software	Rohde&Schwarz	ESK1	-	-
11	EMI test Software	Audix	E3	-	-
12	TURNTABLE	MATURO	TT2.0	-	-
13	ANTENNA MAST	MATURO	TAM-4.0-P	-	-

RF Conducted methods					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13
2	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	2016/11/13

The Cal.Interval was one year.

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 an antenna 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.

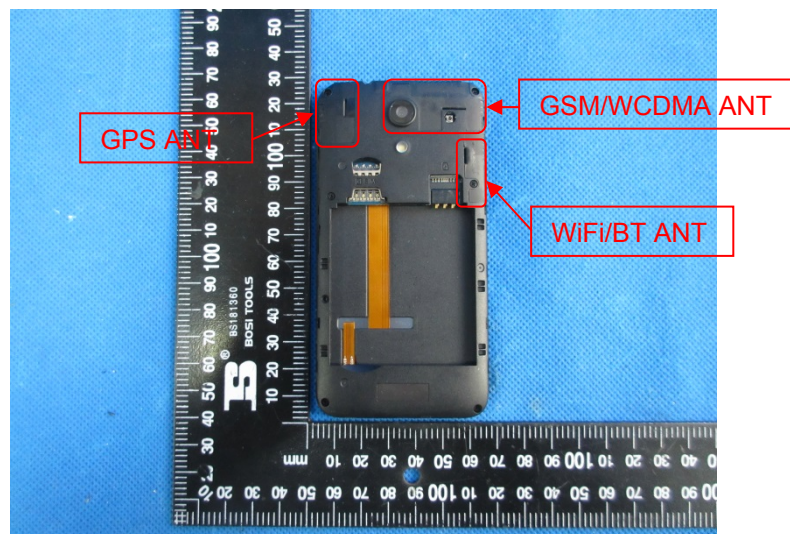
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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 6 dBi 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 6 dBi.

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

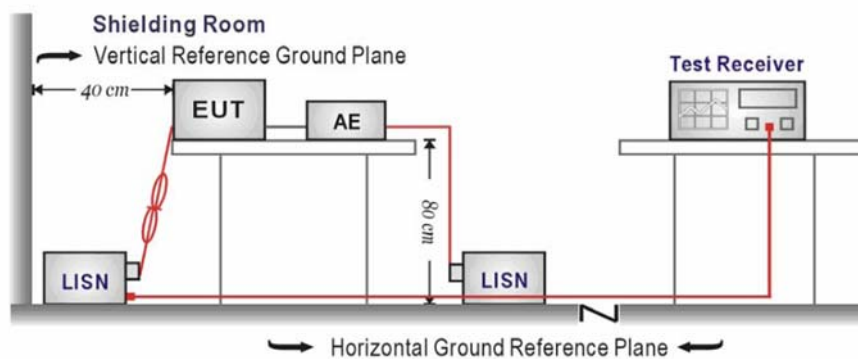
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (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 folded back 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

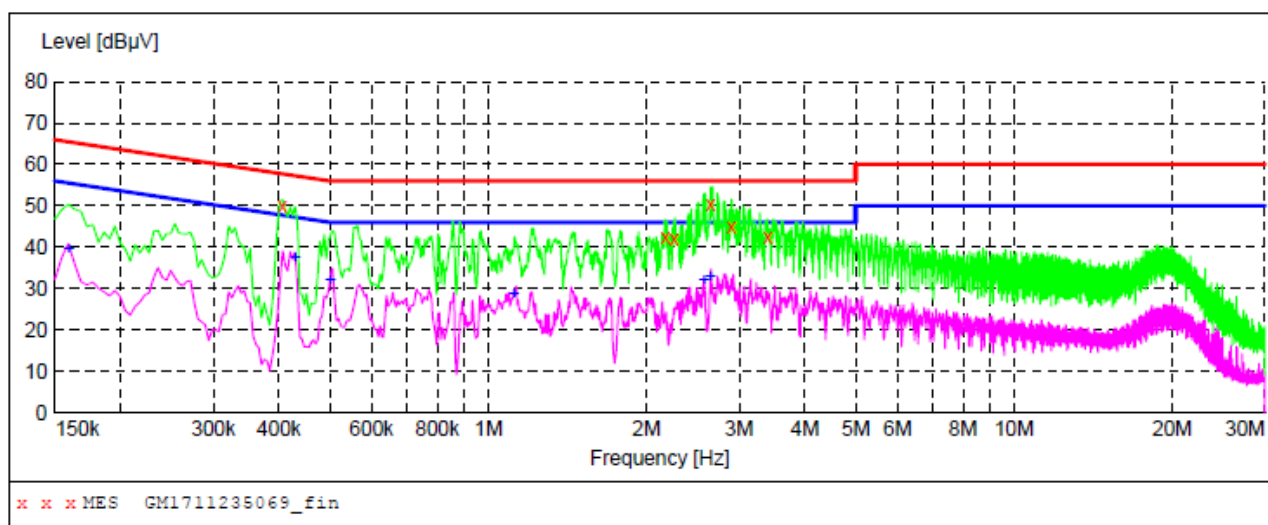
☒ Passed ☐ Not Applicable

Note:

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

Test Line:

L

**MEASUREMENT RESULT: "GM1711235069_fin"**

11/23/2017 9:14PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.406500	49.80	9.9	58	7.9	QP	L1	GND
2.175000	42.60	10.1	56	13.4	QP	L1	GND
2.256000	42.00	10.1	56	14.0	QP	L1	GND
2.652000	50.30	10.1	56	5.7	QP	L1	GND
2.904000	44.90	10.1	56	11.1	QP	L1	GND
3.403500	42.60	10.1	56	13.4	QP	L1	GND

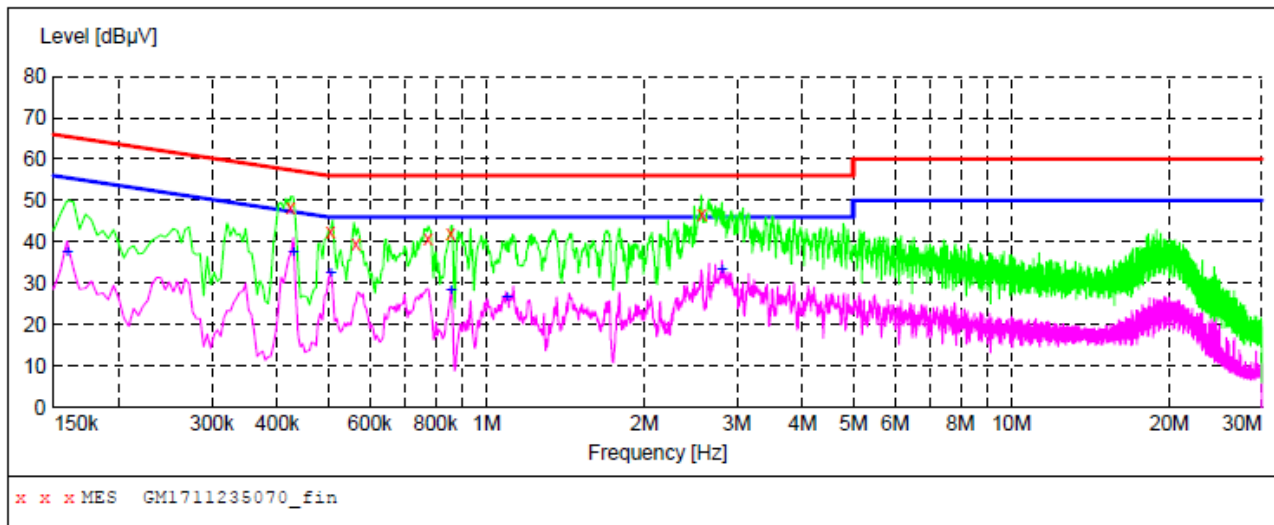
MEASUREMENT RESULT: "GM1711235069_fin2"

11/23/2017 9:14PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	39.60	10.0	56	15.9	AV	L1	GND
0.429000	37.40	9.9	47	9.9	AV	L1	GND
0.501000	32.00	10.0	46	14.0	AV	L1	GND
1.117500	28.70	10.1	46	17.3	AV	L1	GND
2.571000	31.90	10.1	46	14.1	AV	L1	GND
2.647500	32.80	10.1	46	13.2	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1711235070_fin"**

11/23/2017 9:23PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.424500	48.30	9.9	57	9.1	QP	N	GND
0.505500	42.40	10.0	56	13.6	QP	N	GND
0.564000	39.60	10.0	56	16.4	QP	N	GND
0.775500	40.70	10.0	56	15.3	QP	N	GND
0.856500	42.00	10.0	56	14.0	QP	N	GND
2.575500	46.50	10.1	56	9.5	QP	N	GND

MEASUREMENT RESULT: "GM1711235070_fin2"

11/23/2017 9:23PM

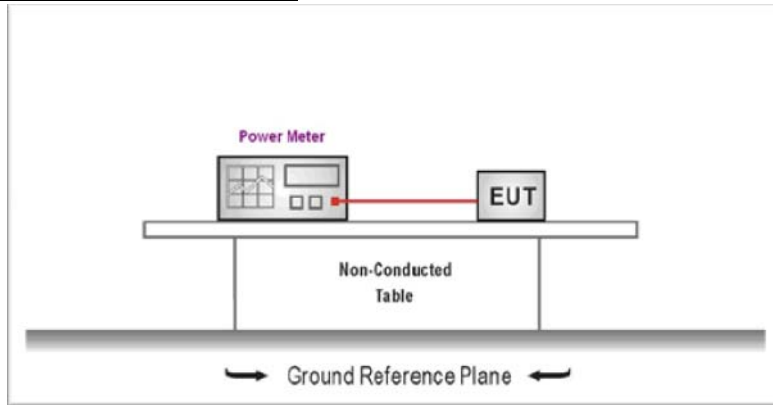
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	37.60	10.0	56	17.9	AV	N	GND
0.429000	37.40	9.9	47	9.9	AV	N	GND
0.505500	32.50	10.0	46	13.5	AV	N	GND
0.856500	28.40	10.0	46	17.6	AV	N	GND
1.095000	26.60	10.1	46	19.4	AV	N	GND
2.809500	33.20	10.1	46	12.8	AV	N	GND

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**

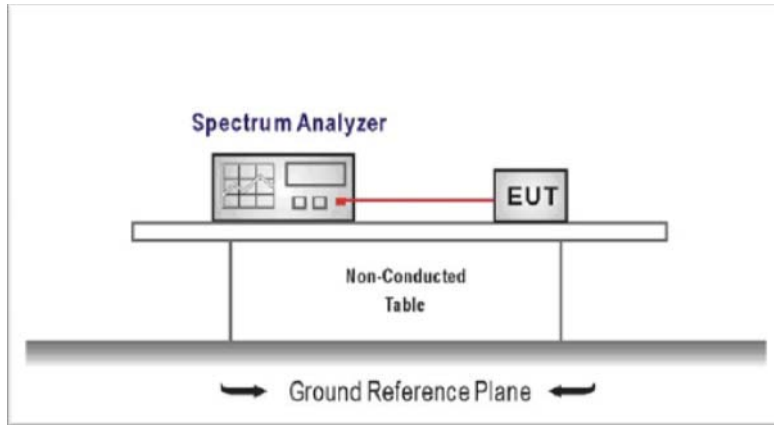
Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.73	≤30.00	Pass
	06	16.84		
	11	16.88		
802.11g	01	14.02	≤30.00	Pass
	06	13.66		
	11	14.25		
802.11n(HT20)	01	11.07	≤30.00	Pass
	06	10.63		
	11	11.67		

5.4. Power Spectral Density

LIMIT

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,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
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 wave form 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

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	1.33	≤8.00	Pass
	06	1.01		
	11	-0.03		
802.11g	01	-8.88	≤8.00	Pass
	06	-9.04		
	11	-8.46		
802.11n(HT20)	01	-11.24	≤8.00	Pass
	06	-11.53		
	11	-9.99		

Test plot as follows:

Type:		802.11 b
CH01		
CH06		
CH11		

Type:		802.11 g	
CH01			Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399500000 GHz Stop Freq 2.424500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz
CH06			Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424500000 GHz Stop Freq 2.449500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz
CH11			Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449500000 GHz Stop Freq 2.474500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz

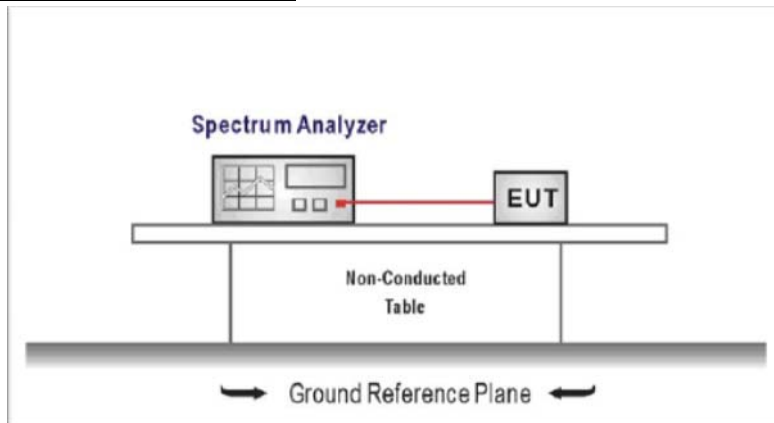
Type:		802.11n(HT20)	
CH01			Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.399500000 GHz Stop Freq 2.424500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz
CH06			Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.424500000 GHz Stop Freq 2.449500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz
CH11			Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.449500000 GHz Stop Freq 2.474500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz

5.5. 6dB bandwidth

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 wave form 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

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	10.09	≥500	Pass
	06	10.12		
	11	10.11		
802.11g	01	16.07	≥500	Pass
	06	16.30		
	11	16.06		
802.11n(HT20)	01	17.28	≥500	Pass
	06	17.35		
	11	17.15		

Test plot as follows:

Type:	802.11 b
CH01	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 500/500 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 0.5 dB Mkr1 2.4105 GHz Ref 20.50 dBm 4.8277 dBm Center 2.412 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms Occupied Bandwidth 13.557 MHz Total Power 21.1 dBm Transmit Freq Error 249.48 kHz OBW Power 99.00 % x dB Bandwidth 10.09 MHz x dB -6.00 dB Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
CH06	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 500/500 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 0.5 dB Mkr1 2.43502 GHz Ref 20.50 dBm 2.5469 dBm Center 2.437 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms Occupied Bandwidth 12.950 MHz Total Power 19.0 dBm Transmit Freq Error 136.88 kHz OBW Power 99.00 % x dB Bandwidth 10.12 MHz x dB -6.00 dB Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
CH11	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 500/500 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 0.5 dB Mkr1 2.46002 GHz Ref 20.50 dBm 4.5403 dBm Center 2.462 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms Occupied Bandwidth 14.279 MHz Total Power 21.2 dBm Transmit Freq Error 513.67 kHz OBW Power 99.00 % x dB Bandwidth 10.11 MHz x dB -6.00 dB Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz

Type:		802.11 g
CH01		Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
CH06		Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
CH11		Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz

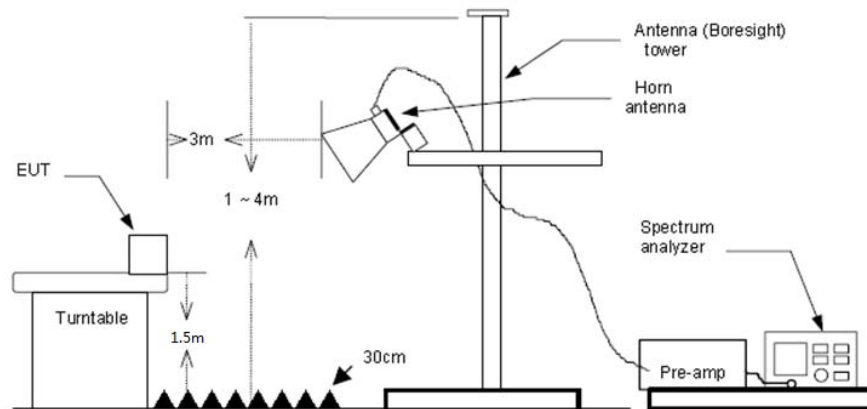
Type:		802.11n(HT20)	
CH01			
CH06			
CH11			

5.6. Restricted band

LIMIT

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 Emissions 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 was positioned 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 the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5) The receiver set as follow:
 RBW=1MHz, VBW=3MHz PEAK detector 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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	17.53	28.05	6.62	0.00	52.20	74.00	-21.80	Vertical	Peak
2390.01	17.65	27.65	6.75	0.00	52.05	74.00	-21.95	Vertical	Peak
2310.00	16.83	28.05	6.62	0.00	51.50	74.00	-22.50	Horizontal	Peak
2390.01	17.41	27.65	6.75	0.00	51.81	74.00	-22.19	Horizontal	Peak
2310.00	11.06	28.05	6.62	0.00	45.73	54.00	-8.27	Vertical	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Vertical	Average
2310.00	11.03	28.05	6.62	0.00	45.70	54.00	-8.30	Horizontal	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Horizontal	Average

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	16.10	27.26	6.83	0.00	50.19	74.00	-23.81	Vertical	Peak
2500.00	16.09	27.20	6.84	0.00	50.13	74.00	-23.87	Vertical	Peak
2483.49	17.42	27.26	6.83	0.00	51.51	74.00	-22.49	Horizontal	Peak
2500.00	18.04	27.20	6.84	0.00	52.08	74.00	-21.92	Horizontal	Peak
2483.49	10.62	27.26	6.83	0.00	44.71	54.00	-9.29	Vertical	Average
2500.00	10.63	27.20	6.84	0.00	44.67	54.00	-9.33	Vertical	Average
2483.49	10.57	27.26	6.83	0.00	44.66	54.00	-9.34	Horizontal	Average
2500.00	10.59	27.20	6.84	0.00	44.63	54.00	-9.37	Horizontal	Average

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	18.88	28.05	6.62	0.00	53.55	74.00	-20.45	Vertical	Peak
2390.01	18.38	27.65	6.75	0.00	52.78	74.00	-21.22	Vertical	Peak
2310.00	16.75	28.05	6.62	0.00	51.42	74.00	-22.58	Horizontal	Peak
2390.01	16.89	27.65	6.75	0.00	51.29	74.00	-22.71	Horizontal	Peak
2310.00	11.05	28.05	6.62	0.00	45.72	54.00	-8.28	Vertical	Average
2390.01	10.61	27.65	6.75	0.00	45.01	54.00	-8.99	Vertical	Average
2310.00	11.04	28.05	6.62	0.00	45.71	54.00	-8.29	Horizontal	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Horizontal	Average

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	17.65	27.26	6.83	0.00	51.74	74.00	-22.26	Vertical	Peak
2500.00	16.62	27.20	6.84	0.00	50.66	74.00	-23.34	Vertical	Peak
2483.49	17.48	27.26	6.83	0.00	51.57	74.00	-22.43	Horizontal	Peak
2500.00	17.40	27.20	6.84	0.00	51.44	74.00	-22.56	Horizontal	Peak
2483.49	10.58	27.26	6.83	0.00	44.67	54.00	-9.33	Vertical	Average
2500.00	10.59	27.20	6.84	0.00	44.63	54.00	-9.37	Vertical	Average
2483.49	10.63	27.26	6.83	0.00	44.72	54.00	-9.28	Horizontal	Average
2500.00	10.60	27.20	6.84	0.00	44.64	54.00	-9.36	Horizontal	Average

802.11n(HT20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	17.48	28.05	6.62	0.00	52.15	74.00	-21.85	Vertical	Peak
2390.01	17.16	27.65	6.75	0.00	51.56	74.00	-22.44	Vertical	Peak
2310.00	17.27	28.05	6.62	0.00	51.94	74.00	-22.06	Horizontal	Peak
2390.01	19.79	27.65	6.75	0.00	54.19	74.00	-19.81	Horizontal	Peak
2310.00	11.05	28.05	6.62	0.00	45.72	54.00	-8.28	Vertical	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Vertical	Average
2310.00	11.05	28.05	6.62	0.00	45.72	54.00	-8.28	Horizontal	Average
2390.01	10.62	27.65	6.75	0.00	45.02	54.00	-8.98	Horizontal	Average

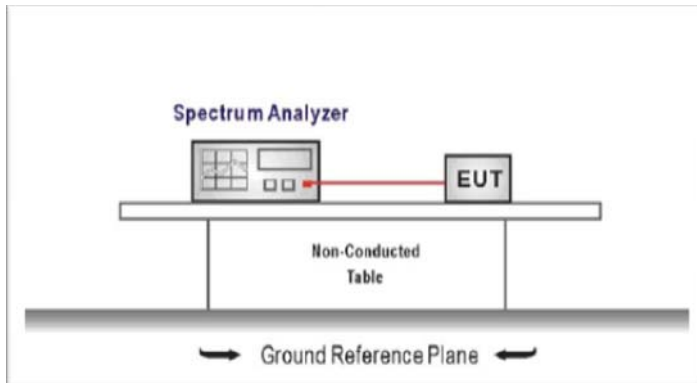
802.11n(HT20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	16.71	27.26	6.83	0.00	50.80	74.00	-23.20	Vertical	Peak
2500.00	18.03	27.20	6.84	0.00	52.07	74.00	-21.93	Vertical	Peak
2483.49	15.64	27.26	6.83	0.00	49.73	74.00	-24.27	Horizontal	Peak
2500.00	16.33	27.20	6.84	0.00	50.37	74.00	-23.63	Horizontal	Peak
2483.49	10.60	27.26	6.83	0.00	44.69	54.00	-9.31	Vertical	Average
2500.00	10.62	27.20	6.84	0.00	44.66	54.00	-9.34	Vertical	Average
2483.49	10.58	27.26	6.83	0.00	44.67	54.00	-9.33	Horizontal	Average
2500.00	10.64	27.20	6.84	0.00	44.68	54.00	-9.32	Horizontal	Average

5.7. Band edge and Spurious Emissions (conducted)

LIMIT

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 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.
2. 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 $\geq 3 \times$ 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

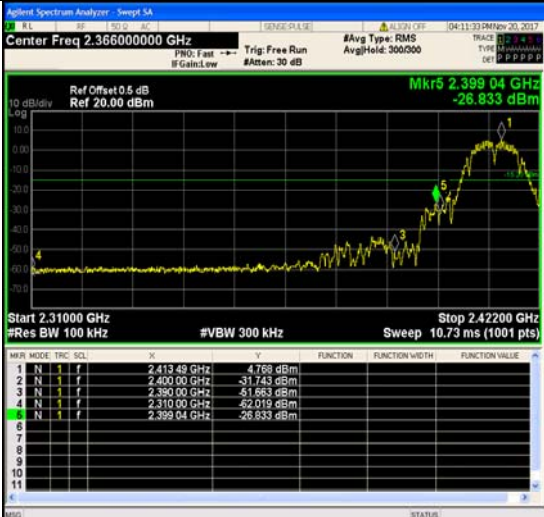
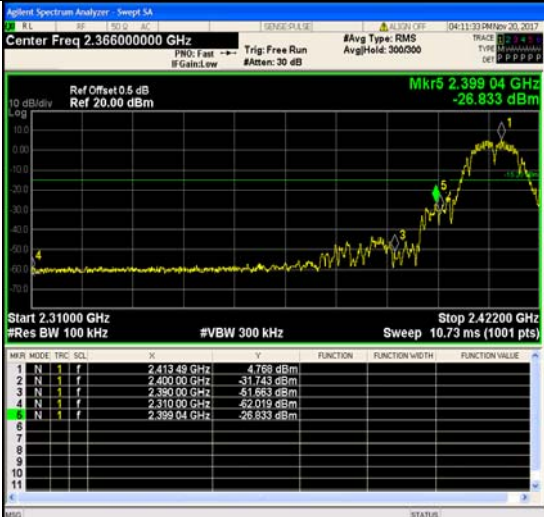
Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = 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 emission 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 emission relative to the limit.

TEST MODE:

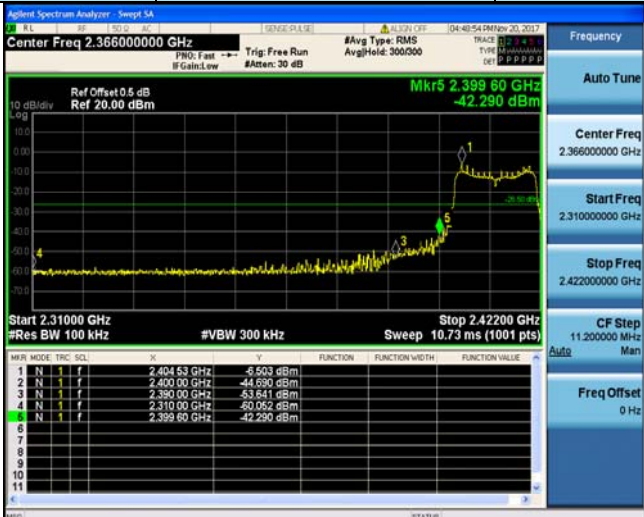
Please refer to the clause 3.3

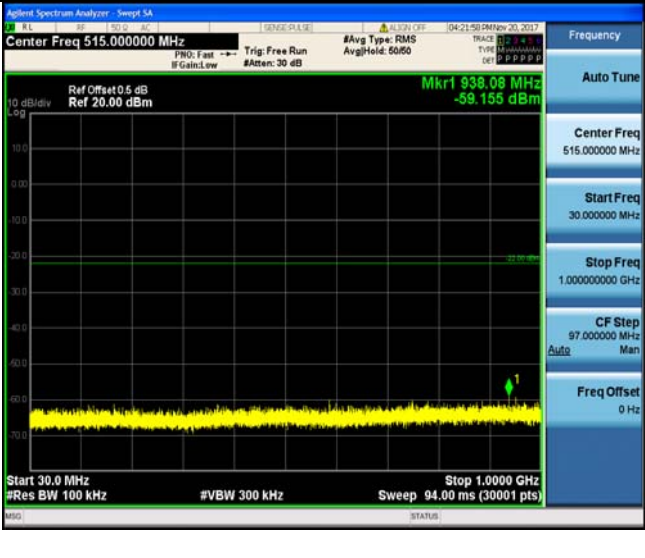
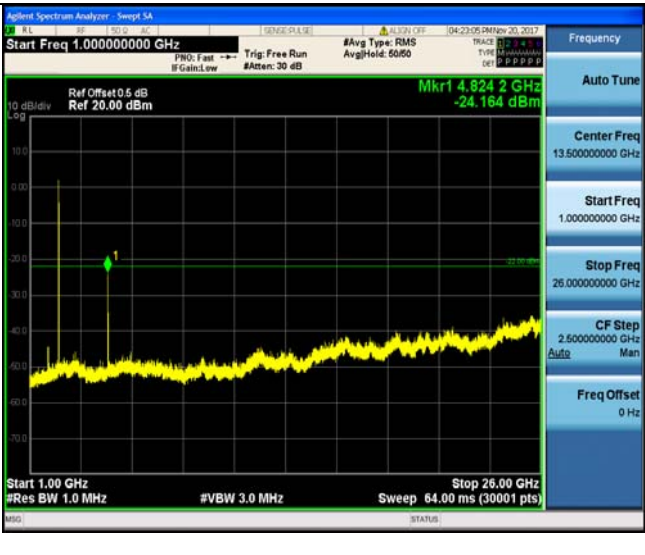
TEST RESULTS

☒ Passed ☐ Not Applicable

Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

Test Item:	SE	Type:	802.11 b
Pref/11B/LCH			
Puw/11B/LCH			
			

Pref/11B/MCH



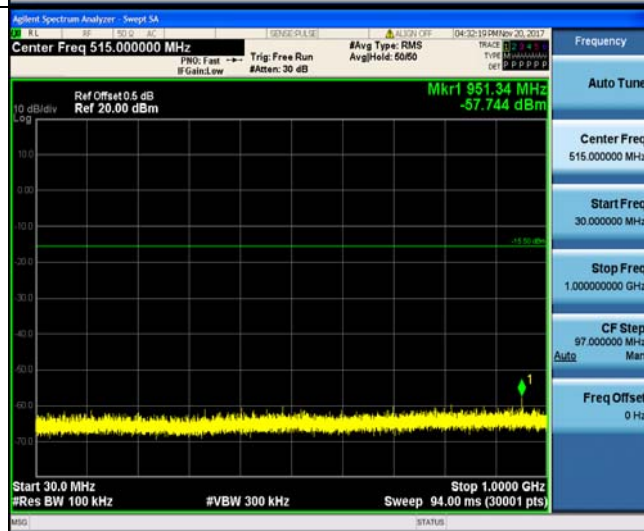
Puw/11B/MCH



Pref/11B/HCH



Puw/11B/HCH



Test Item:	SE	Type:	802.11 g
Pref/11G/LCH			
Puw/11G/LCH			
			

Pref/11G/MCH



Puw/11G/MCH



Pref/11G/HCH



PuW/11G/HCH



Test Item:	SE	Type:	802.11 n(HT20)
Pref/11n20/LCH			
Puw/11n20/LCH			
			

Pref/11n20/MCH



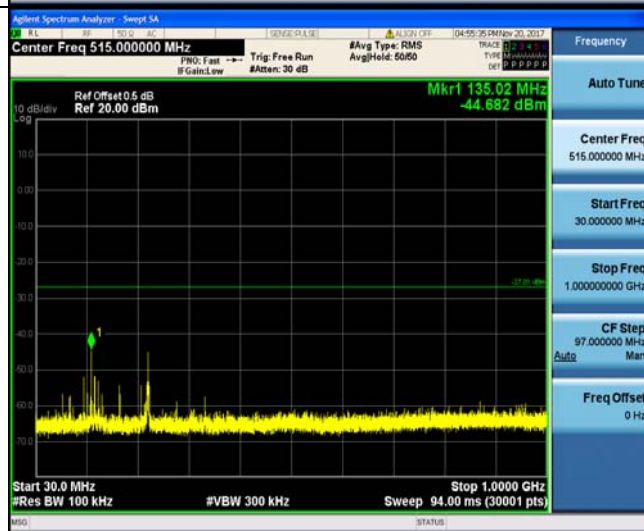
Puw/11n20/MCH



Pref/11n20/HCH



Puw/11n20/HCH



5.8. Spurious Emissions (radiated)

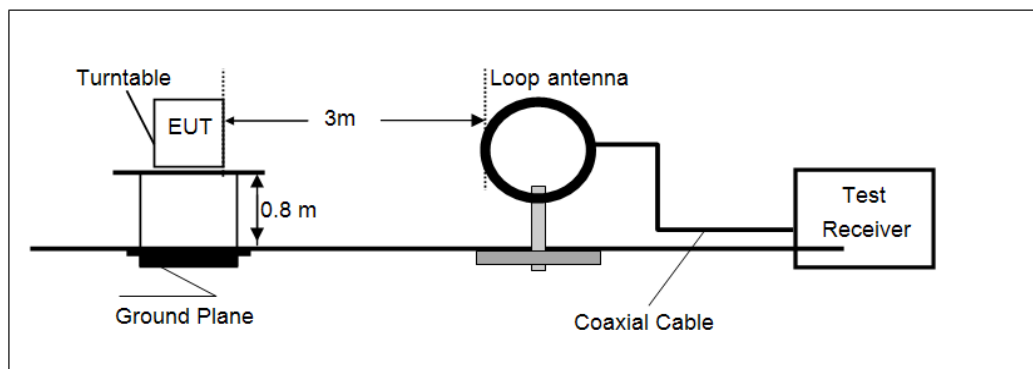
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

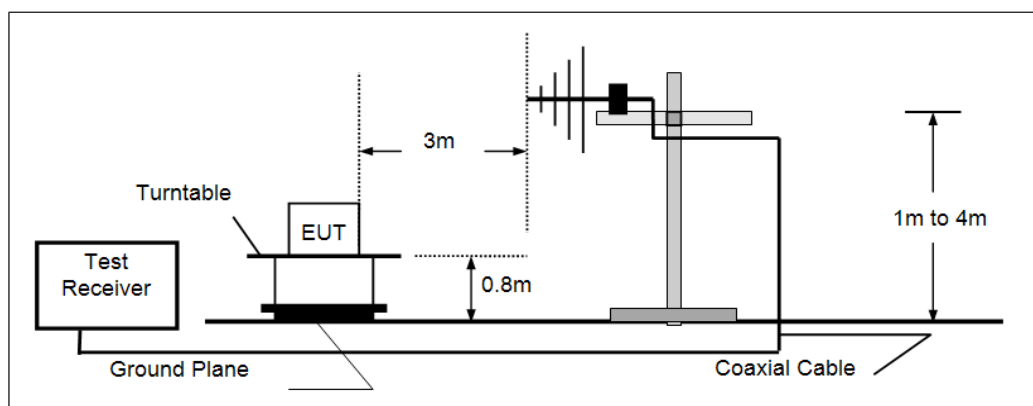
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

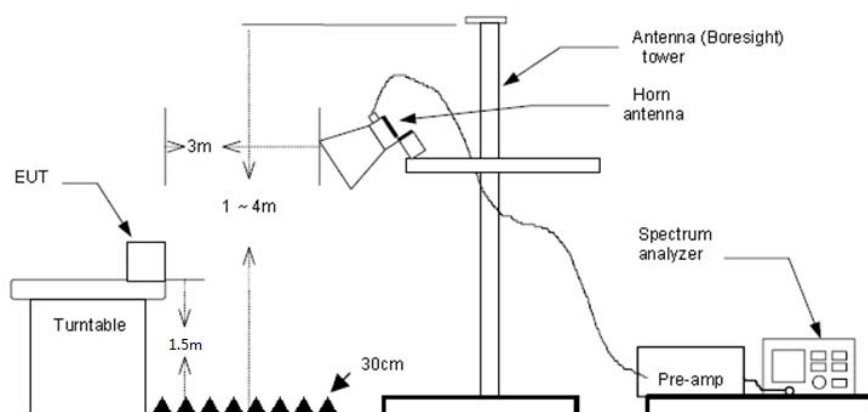
➤ 9kHz ~30MHz



➤ 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 rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned 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 detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz PEAK detector 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.

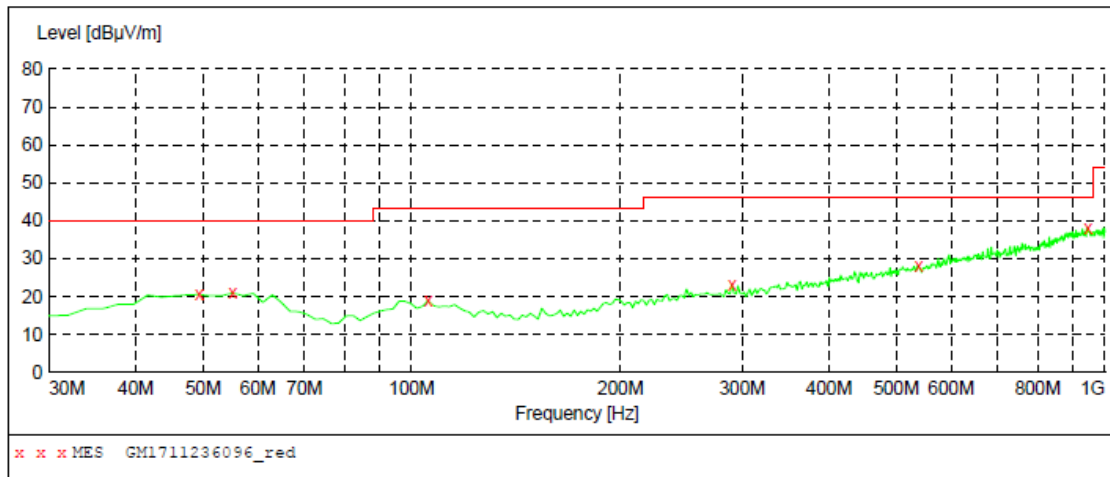
➤ **30MHz ~1000MHz**

Have pre-scan all modulation mode, found the 802.11b mode CH01 which it was worst case, so only the worst case's data on the test report.

➤ 30MHz ~ 1GHz

Polarization:

Vertical

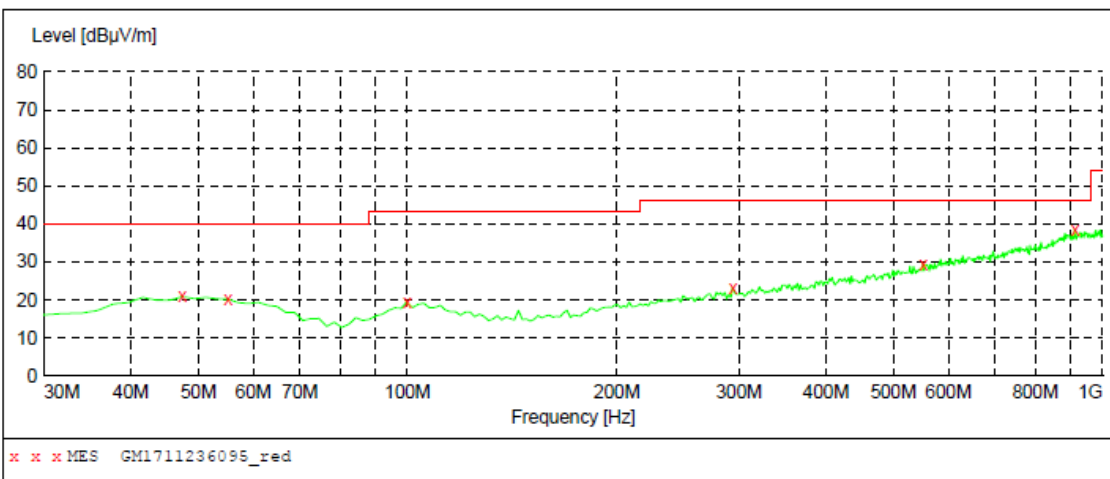
**MEASUREMENT RESULT: "GM1711236096_red"**

11/23/2017 7:41PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	20.60	-8.7	40.0	19.4	QP	100.0	353.00	VERTICAL
55.220000	21.00	-9.2	40.0	19.0	QP	100.0	258.00	VERTICAL
105.660000	19.00	-10.5	43.5	24.5	QP	100.0	359.00	VERTICAL
289.960000	23.30	-7.4	46.0	22.7	QP	100.0	40.00	VERTICAL
538.280000	28.20	-1.0	46.0	17.8	QP	100.0	315.00	VERTICAL
945.680000	38.10	7.2	46.0	7.9	QP	100.0	327.00	VERTICAL

Polarization:

Horizontal

**MEASUREMENT RESULT: "GM1711236095_red"**

11/23/2017 7:38PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	20.90	-8.8	40.0	19.1	QP	100.0	3.00	HORIZONTAL
55.220000	20.20	-9.2	40.0	19.8	QP	300.0	68.00	HORIZONTAL
99.840000	19.50	-10.6	43.5	24.0	QP	300.0	79.00	HORIZONTAL
293.840000	23.30	-7.4	46.0	22.7	QP	300.0	258.00	HORIZONTAL
551.860000	29.40	-0.7	46.0	16.6	QP	300.0	327.00	HORIZONTAL
912.700000	38.50	6.9	46.0	7.5	QP	300.0	304.00	HORIZONTAL

➤ 1 GHz ~ 25 GHz

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1213.44	35.10	26.29	4.68	36.56	29.51	74.00	-44.49	Vertical	Peak
2195.85	35.45	27.47	6.44	37.34	32.02	74.00	-41.98	Vertical	Peak
5546.36	31.49	31.85	10.23	36.12	37.45	74.00	-36.55	Vertical	Peak
7961.43	31.33	36.95	12.49	34.63	46.14	74.00	-27.86	Vertical	Peak
1309.74	34.36	26.17	4.85	36.51	28.87	74.00	-45.13	Horizontal	Peak
2207.06	33.11	27.54	6.45	37.36	29.74	74.00	-44.26	Horizontal	Peak
3143.98	35.48	28.80	7.65	38.21	33.72	74.00	-40.28	Horizontal	Peak
7027.82	31.24	35.38	11.85	34.83	43.64	74.00	-30.36	Horizontal	Peak

802.11b					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1241.56	34.80	26.26	4.73	36.55	29.24	74.00	-44.76	Vertical	Peak
2252.46	31.73	27.82	6.53	37.49	28.59	74.00	-45.41	Vertical	Peak
4652.95	32.29	31.06	9.48	37.16	35.67	74.00	-38.33	Vertical	Peak
7338.62	31.16	36.30	12.01	34.90	44.57	74.00	-29.43	Vertical	Peak
1232.12	35.04	26.27	4.71	36.55	29.47	74.00	-44.53	Horizontal	Peak
2229.65	32.76	27.68	6.49	37.42	29.51	74.00	-44.49	Horizontal	Peak
4524.47	33.11	30.75	9.34	37.35	35.85	74.00	-38.15	Horizontal	Peak
7527.83	30.79	36.13	12.49	34.92	44.49	74.00	-29.51	Horizontal	Peak

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1267.10	33.58	26.23	4.77	36.53	28.05	74.00	-45.95	Vertical	Peak
2252.46	33.04	27.82	6.53	37.49	29.90	74.00	-44.10	Vertical	Peak
4821.76	32.99	31.56	9.55	36.90	37.20	74.00	-36.80	Vertical	Peak
7451.57	30.47	36.20	12.24	34.86	44.05	74.00	-29.95	Vertical	Peak
1309.74	33.51	26.17	4.85	36.51	28.02	74.00	-45.98	Horizontal	Peak
2252.46	32.22	27.82	6.53	37.49	29.08	74.00	-44.92	Horizontal	Peak
4797.27	32.02	31.59	9.54	36.96	36.19	74.00	-37.81	Horizontal	Peak
7154.17	31.74	35.93	11.86	35.01	44.52	74.00	-29.48	Horizontal	Peak

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.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1254.27	34.73	26.24	4.75	36.54	29.18	74.00	-44.82	Vertical	Peak
2269.73	31.82	27.92	6.56	37.54	28.76	74.00	-45.24	Vertical	Peak
4034.78	33.24	29.77	8.81	38.03	33.79	74.00	-40.21	Vertical	Peak
6816.39	31.17	34.12	11.62	34.97	41.94	74.00	-32.06	Vertical	Peak
1257.47	34.00	26.24	4.76	36.54	28.46	74.00	-45.54	Horizontal	Peak
1732.97	32.86	25.27	5.83	37.00	26.96	74.00	-47.04	Horizontal	Peak
3700.26	32.84	29.30	8.39	38.25	32.28	74.00	-41.72	Horizontal	Peak
6781.78	31.66	34.04	11.58	35.02	42.26	74.00	-31.74	Horizontal	Peak

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1219.64	34.81	26.28	4.69	36.56	29.22	74.00	-44.78	Vertical	Peak
2246.74	32.22	27.78	6.52	37.47	29.05	74.00	-44.95	Vertical	Peak
3216.84	34.46	28.70	7.74	38.23	32.67	74.00	-41.33	Vertical	Peak
7209.02	30.49	36.21	11.87	35.07	43.50	74.00	-30.50	Vertical	Peak
1247.90	34.37	26.25	4.74	36.54	28.82	74.00	-45.18	Horizontal	Peak
3208.66	33.12	28.75	7.73	38.22	31.38	74.00	-42.62	Horizontal	Peak
4559.15	32.84	30.82	9.39	37.30	35.75	74.00	-38.25	Horizontal	Peak
6956.63	32.08	35.04	11.80	34.83	44.09	74.00	-29.91	Horizontal	Peak

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1198.10	35.60	26.29	4.66	36.57	29.98	74.00	-44.02	Vertical	Peak
3096.33	33.16	28.79	7.60	38.22	31.33	74.00	-42.67	Vertical	Peak
4455.89	31.97	30.61	9.22	37.47	34.33	74.00	-39.67	Vertical	Peak
6886.15	32.24	34.60	11.71	34.90	43.65	74.00	-30.35	Vertical	Peak
1326.51	33.54	26.12	4.88	36.50	28.04	74.00	-45.96	Horizontal	Peak
2124.37	32.54	26.90	6.38	37.32	28.50	74.00	-45.50	Horizontal	Peak
3233.26	34.14	28.60	7.76	38.26	32.24	74.00	-41.76	Horizontal	Peak
7135.98	30.29	35.82	11.86	34.99	42.98	74.00	-31.02	Horizontal	Peak

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.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1257.47	37.20	26.24	4.76	36.54	31.66	74.00	-42.34	Vertical	Peak
2252.46	35.55	27.82	6.53	37.49	32.41	74.00	-41.59	Vertical	Peak
4512.97	35.31	30.73	9.32	37.37	37.99	74.00	-36.01	Vertical	Peak
7264.28	32.07	36.26	11.93	35.00	45.26	74.00	-28.74	Vertical	Peak
1350.36	36.24	26.05	4.92	36.49	30.72	74.00	-43.28	Horizontal	Peak
2229.65	35.99	27.68	6.49	37.42	32.74	74.00	-41.26	Horizontal	Peak
3690.85	36.71	29.30	8.37	38.25	36.13	74.00	-37.87	Horizontal	Peak
7357.33	31.24	36.30	12.03	34.88	44.69	74.00	-29.31	Horizontal	Peak

802.11n(HT20)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1468.31	36.29	25.83	5.19	36.55	30.76	74.00	-43.24	Vertical	Peak
2269.98	36.74	27.92	6.56	37.54	33.68	74.00	-40.32	Vertical	Peak
4314.45	34.35	30.24	9.05	37.60	36.04	74.00	-37.96	Vertical	Peak
6844.53	31.98	34.31	11.66	34.95	43.00	74.00	-31.00	Vertical	Peak
1634.42	36.78	25.01	5.64	36.79	30.64	74.00	-43.36	Horizontal	Peak
1904.12	44.46	25.34	6.12	37.22	38.70	74.00	-35.30	Horizontal	Peak
3662.78	36.97	29.30	8.34	38.26	36.35	74.00	-37.65	Horizontal	Peak
7301.36	32.09	36.30	11.97	34.95	45.41	74.00	-28.59	Horizontal	Peak

802.11n(HT20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1685.12	35.82	25.16	5.74	36.90	29.82	74.00	-44.18	Vertical	Peak
3112.13	36.20	28.80	7.61	38.21	34.40	74.00	-39.60	Vertical	Peak
5125.52	32.49	31.80	9.77	36.27	37.79	74.00	-36.21	Vertical	Peak
8002.06	32.05	37.10	12.30	34.53	46.92	74.00	-27.08	Vertical	Peak
1706.70	36.44	25.21	5.78	36.94	30.49	74.00	-43.51	Horizontal	Peak
2957.65	35.40	28.56	7.46	38.26	33.16	74.00	-40.84	Horizontal	Peak
4117.79	35.17	29.92	8.87	37.84	36.12	74.00	-37.88	Horizontal	Peak
7154.17	30.94	35.93	11.86	35.01	43.72	74.00	-30.28	Horizontal	Peak

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.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

6. TEST SETUP PHOTOS

Conducted Emissions



Radiated Emissions





7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: TRE1711008801.

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