

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100270

FCC REPORT (WIFI)

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35

SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X659B

Trade mark: Infinix

FCC ID: 2AIZN-X659B

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 09 Jan., 2021

Date of Test: 10 Jan., to 25 Jan., 2021

Date of report issued: 26 Jan., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version

Version No.	Date	Description
00	26 Jan., 2021	Original

Mike.0U Test Engineer Tested by: 26 Jan., 2021 Date:

Reviewed by: Date: 26 Jan., 2021 **Project Engineer**





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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result		
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass		
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass		
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass		
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass		
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass		
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass		
Conducted Band Edge	45 247 (4)	Appendix A – 2.4G Wi-Fi	Pass		
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass		
Conducted Spurious Emission	15 205 8 15 200	Appendix A – 2.4G Wi-Fi	Pass		
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass		

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED	
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT	
Manufacturer:	INFINIX MOBILITY LIMITED	
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT	
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.	
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China	

5.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	X659B		
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)		
	2422MHz~2452MHz: 802.11n(HT40)		
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)		
	7: 802.11n(HT40)		
Channel separation:	5MHz		
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)		
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)		
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps		
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps		
Data speed (IEEE 802.11n):	Up to 150Mbps		
Antenna Type:	Internal Antenna		
Antenna gain:	1.2dBi		
Power supply:	Rechargeable Li-ion polymer Battery DC3.87V-5850mAh		
AC adapter:	Model: U100XSA		
	Input: AC100-240V, 50/60Hz, 0.3A		
	Output: DC 5.0V === 2A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

Operation Frequency each of channel for 802.11b/g/n(HT20)							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.

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5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.					
Mode Data rate					
802.11b	1Mbps				
802.11g	6Mbps				
802.11n(HT20)	6.5Mbps				
802.11n(HT40)	13.5Mbps				

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

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5.8 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-21-2020	07-20-2021	
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-20-2020	06-19-2021	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020	
Hom Antenna	SCHWARZBECK	DDHA 9170	BBHA9170582	11-18-2020	11-17-2021	
EMI Test Software	AUDIX	E3	Version: 6.110919b)	
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021	
Consister on a superior	Dahda 9 Cahusara	ECD40	400000	11-18-2019	11-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021	
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A	
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0		

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021	
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	07-17-2021	
Cable	HP	10503A	N/A	03-05-2020	03-04-2021	
EMI Test Software	AUDIX	E3	Version: 6.110919b			

Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	
PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0			
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021	

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6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

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.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.2 dBi.

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6.2 Conducted Emission

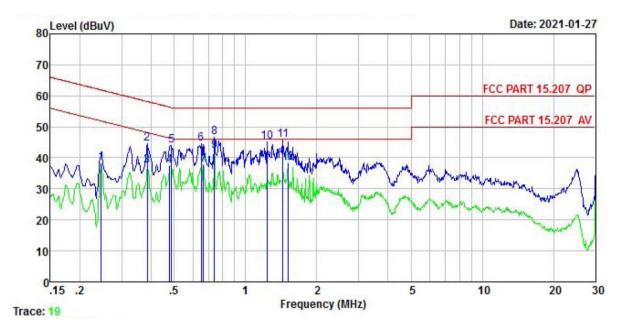
Test Requirement:	FCC Part 15 C Section 15.2	207							
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9 kHz, VBW=30 kHz								
Limit:	Fraguenov rango (MHz)	Limit (dBuV)							
	Frequency range (MHz)	Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30	60	50						
	* Decreases with the logarit	hm of the frequency.							
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 								
Test setup:	LISN	st	er — AC power						
Test Instruments:	Refer to section 5.9 for deta	ails							
Test mode:	Refer to section 5.3 for deta	ails							
Test results:	Passed								

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Measurement Data:

Product name:	Mobile Phone	Product model:	X659B
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u>-</u>	MHz	₫₿u₹	₫B	₫B	₫B	dBu₹	dBu₹	<u>dB</u>	
1	0.246 0.385	28.29 34.16	-0.57 -0.49	-0.21 0.33	10.75 10.72	38.26 44.72		-13.65 -13.45	Average
2	0.385	26.86	-0.49	0.33	10.72	37.42	48.17	-10.75	Average
4 5 6	0.479 0.486	27.37 33.91	-0.44 -0.44	-0.21 -0.26	10.75 10.76	37.47 43.97		-12.26	
7	0.651 0.665	34.64 27.84	-0.51 -0.51	-0.39 -0.39	10.77 10.77	44.51 37.71	56.00 46.00	-11.49 -8.29	QP Average
8	0.739 0.739	36.74 32.35	-0.54 -0.54	-0.28 -0.28	10.79 10.79	46.71 42.32	56.00 46.00	117,000 Tel. Tel. Tel.	QP Average
10 11	1.229 1.441	34.77 35.31	-0.59 -0.56	0.23 0.05	10.90 10.92	45.31 45.72	56.00	-10.69 -10.28	QP
12	1.511	27.94	-0.55	-0.01	10.92	38.30	46.00		Average

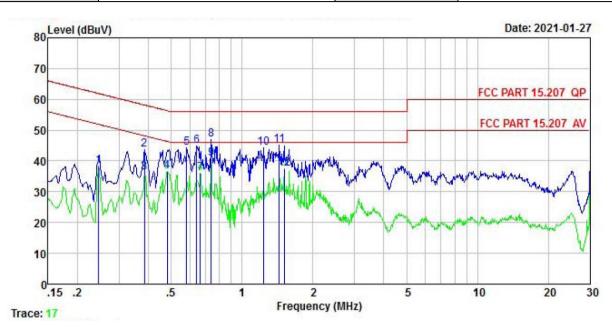
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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Product name:	Mobile Phone	Product model:	X659B
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



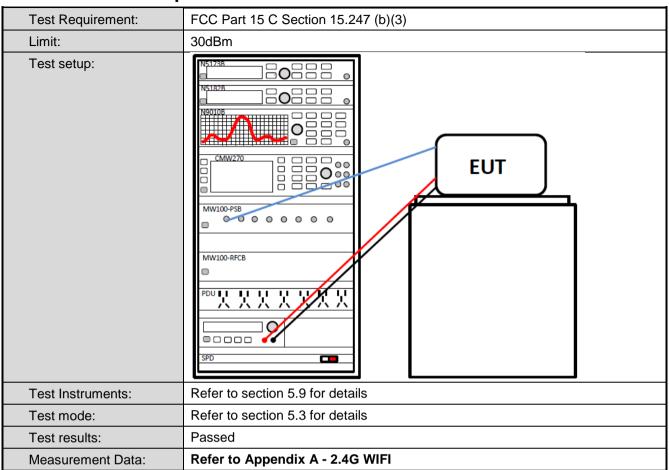
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	₫B	<u>dB</u>	₫B	dBu₹	dBu∀	<u>dB</u>	
1	0.246 0.385	28.19 33.66	-0.67 -0.64	0.01 -0.05	10.75	38.28			Average
3	0.385	26.42	-0.64	-0.05	10.72 10.72	43.69 36.45	48.17		Average
2 3 4 5 6	0.481 0.582	26.60 34.04	-0.65 -0.65	0.02	10.75 10.76	36.72 44.18		-9.60 -11.82	Average QP
6 7	0.641 0.665	34.61 25.92	-0.64 -0.64	0.04	10.77	44.78 36.09	56.00 46.00	-11.22	QP Average
8 9	0.739	36.81	-0.65	0.05	10.79	47.00	56.00	-9.00	QP
10	0.739 1.236	30.59 33.82	-0.65 -0.69	0.05 0.11	10.79 10.90	40.78 44.14	46.00 56.00	-5.22 -11.86	Average QP
11 12	1.441 1.511	34.70 27.03	-0.70 -0.70	0.13 0.13	10.92 10.92	45.05 37.38	56.00 46.00	-10.95 -8.62	QP Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

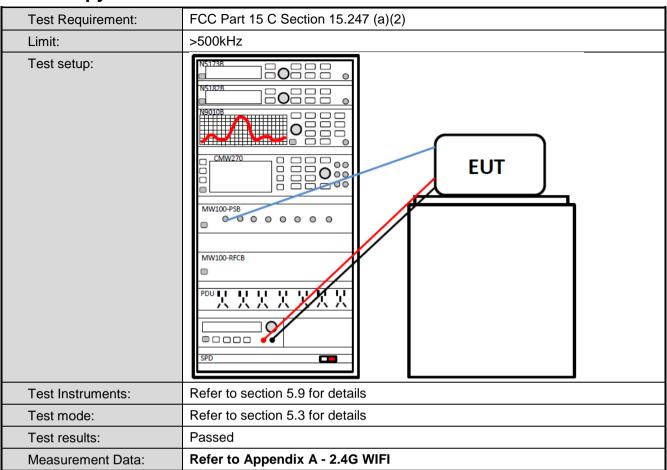


6.3 Conducted Output Power





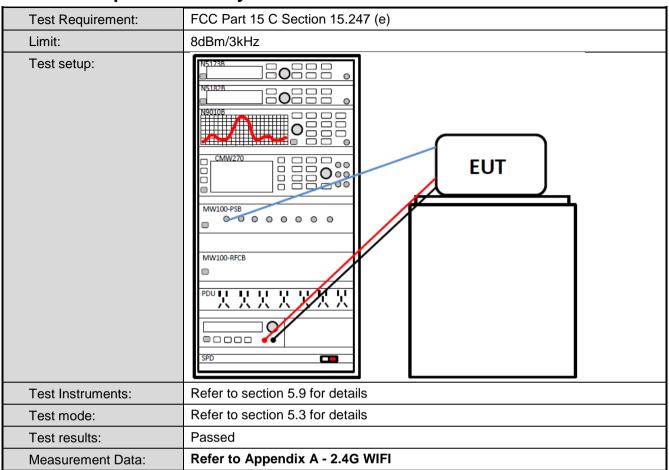
6.4 Occupy Bandwidth



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6.5 Power Spectral Density





6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS112B					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					

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6.6.2 Radiated Emission Method

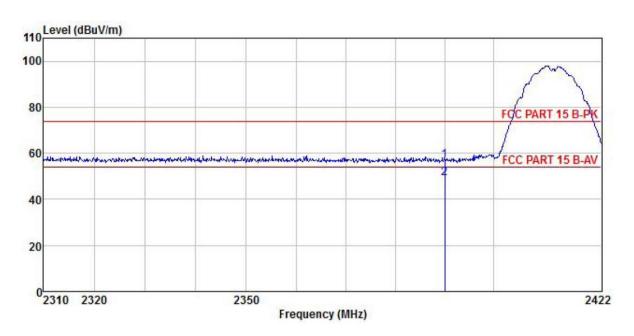
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Frequency Range:	2310 MHz to 2390	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz							
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW					
	Above 1GHz	Peak	1MHz	3MHz					
Limit:	Frequency	RMS	<u> 1MHz </u>	3MHz	z Average Value Remark				
Limit.			54.00	3111)	Average Value				
	Above 1GH		74.00		Peak Value				
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 								
Test setup:	- 150cm	AE EUT (Turntable)	Ground Reference Plane	Ye	ana Tower				
Test Instruments:	Refer to section 5	.9 for details							
Test mode:	Refer to section 5	.3 for details							
Test results:	Passed								

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802.11b mode:

Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor							
	MHz	dBu∜		<u>ab</u>	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	 	
1 2	2390.000 2390.000									

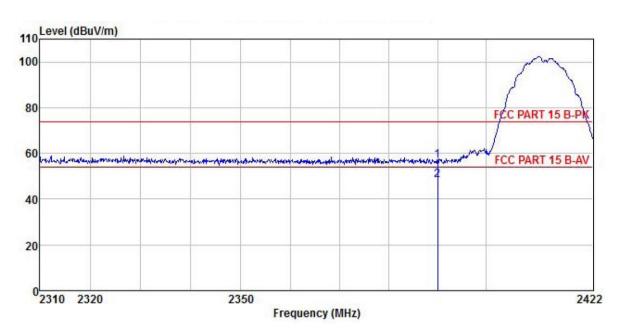
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



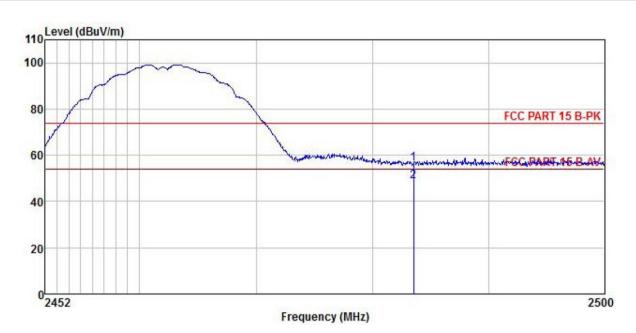
	Freq		Antenna Factor						
	MHz	—dBu∀	dB/m	 <u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	dB	
1 2	2390.000 2390.000								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

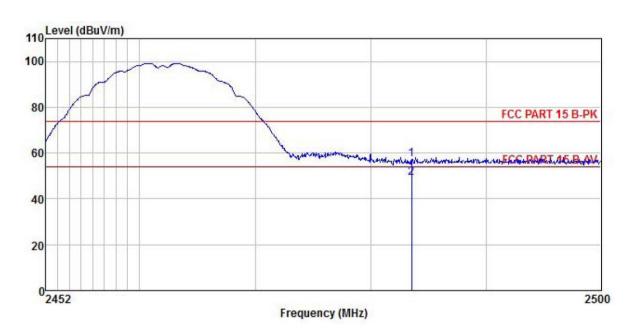


	Freq		Antenna Factor						
_	MHz	dBu₹	$\overline{-dB}/\overline{m}$	 <u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11b Tx mode		
Test Channel:	Highest channel	Polarization:			
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor						
	MHz	—dBu∜		 <u>ab</u>	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500								

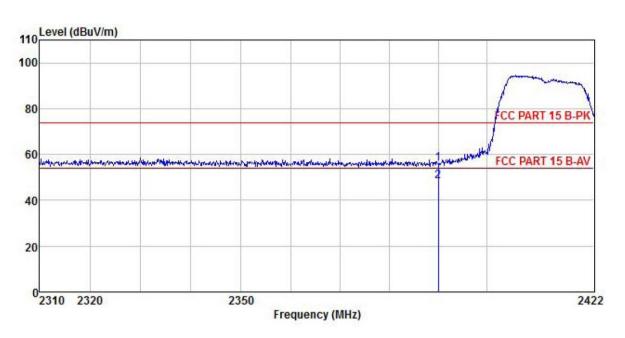
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11g mode:

Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∜	dB/m	 <u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1 2	2390.000 2390.000								

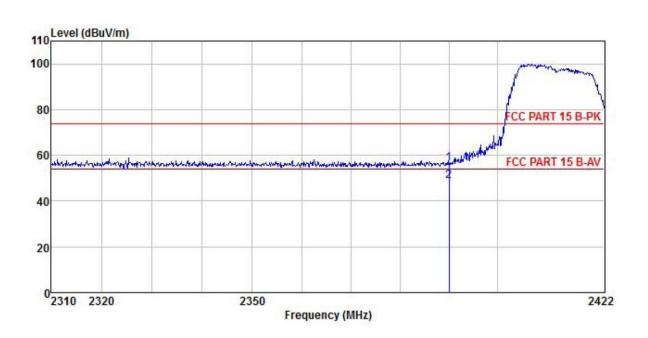
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



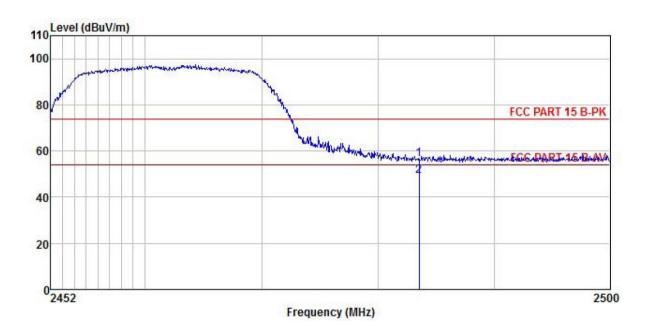
Freq		Antenna Factor							Remark	
MHz	dBu₹	dB/m	dB	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	dB		
2390.000 2390.000										

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11g Tx mode		
Test Channel:	Highest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		

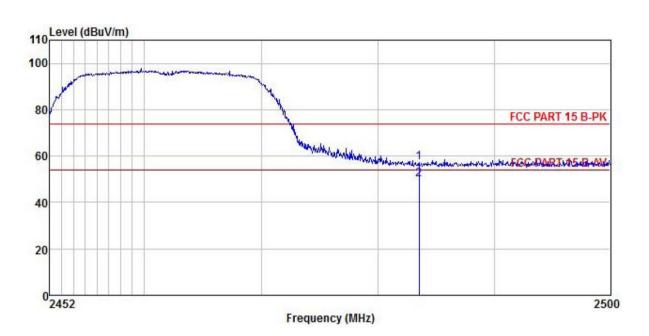


Freq		Antenna Factor						Remark	
MHz	dBu∜		 <u>ab</u>	<u>dB</u>	dBuV/m	dBu√/m	<u>dB</u>		
2483.500 2483.500									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11g Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



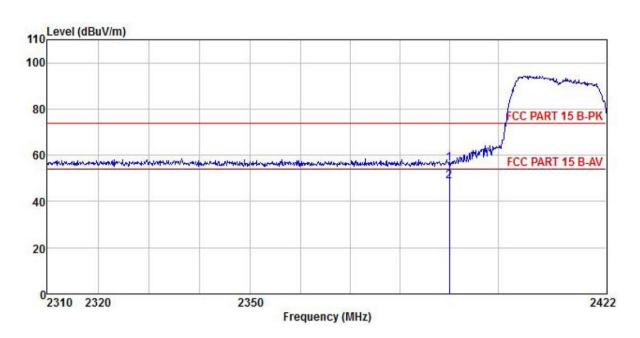
	Freq		Antenna Factor						
	MHz	−−dBuV		 <u>ab</u>	<u>d</u> B	$\overline{dB}\overline{uV/m}$	dBuV/m	<u>ab</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



802.11n(HT20):

Product Name:	Mobile Phone	Product Model:	X659B			
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode			
Test Channel:	Lowest channel	Polarization:	Vertical			
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%			



	Freq		Antenna Factor						Over Limit	
	MHz	dBu₹	— <u>d</u> B/m	<u>d</u> B	B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m		
1 2	2390,000 2390,000									

Remark:

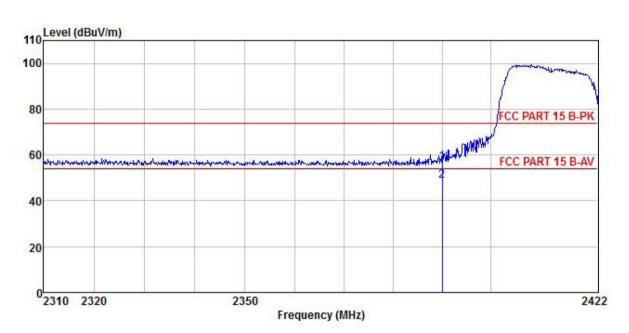
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2101099



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode		
Test Channel:	Lowest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor						Remark	
	MHz	dBu∜		 <u>ab</u>	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B		
1 2	2390.000 2390.000									

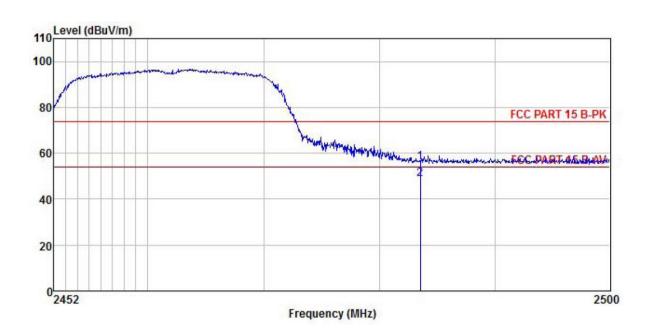
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode		
Test Channel:	Highest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		

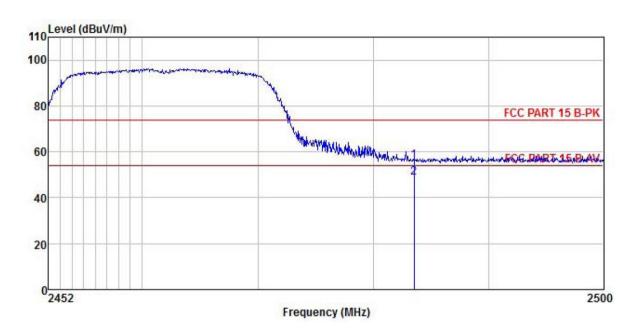


	Freq		Antenna Factor							
	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1 2	2483,500 2483,500	22.73 15.31	27.27 27.27	4.38 4.38	1.70 1.70	0.00 0.00	56.08 48.66	74.00 54.00	-17.92 -5.34	Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq	ReadAnt Freq Level Fa				Preamp Factor				
	MHz	dBu∜	 	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>		
1 2	2483.500 2483.500									

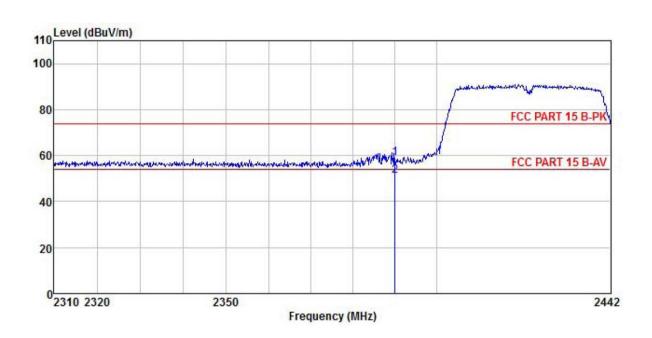
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT40):

Product Name:	oduct Name: Mobile Phone Product Model:				
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Lowest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



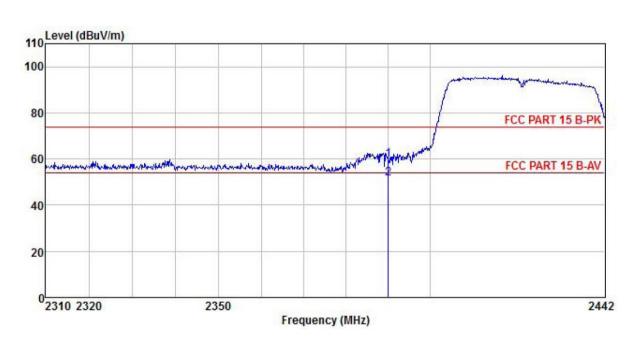
	Freq		dAntenna el Factor					Over Limit	
	MHz	dBu∜		 <u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000								

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Lowest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		

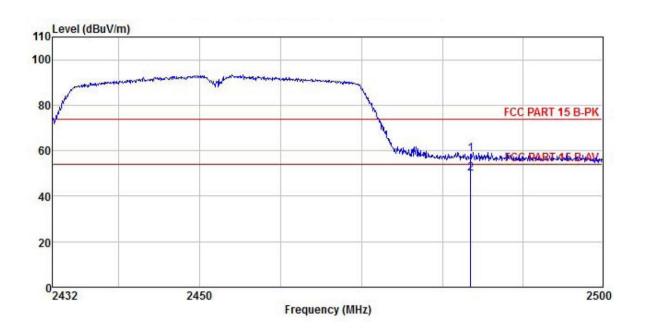


Freq	ReadAntenna Cable Level Factor Loss F								
MHz	dBu∇	— <u>d</u> B/π		<u>ab</u>	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
2390,000 2390,000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	t By: Mike Test mode:				
Test Channel:	Highest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



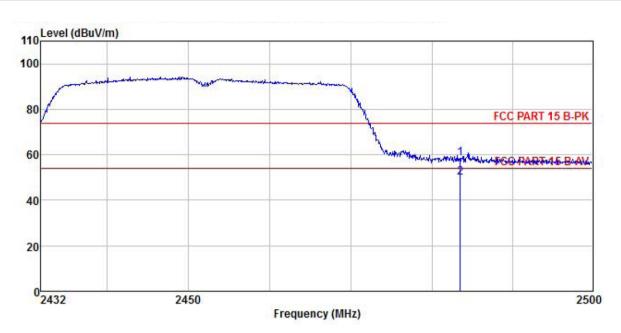
	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	 <u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	dB	
1 2	2483,500 2483,500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq		Antenna Factor				Limit Line		
	MHz	—dBu⊽		 <u>ab</u>	<u>dB</u>	dBuV/m	dBu∜/m	<u>ab</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	NS102B NS10B NS102B NS10B NS102B NS10B NS10B NS10B NS10B NS10B NS10B NS10B NS10B NS10B
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 2.4G WIFI

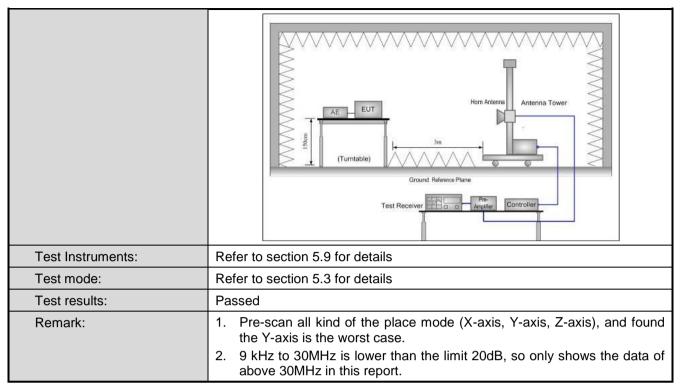
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6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	ction 15.	209 ar	nd 15.205			1				
Test Frequency Range:	9kHz to 25GHz										
Test Distance:	3m										
	Frequency	Detec	tor	RBW	V	BW	Remark				
Receiver setup:	30MHz-1GHz	Quasi-p		120KHz)KHz	Quasi-peak Value				
		Pea		1MHz	3MHz		Peak Value				
	Above 1GHz	RMS			3MHz		Average Value				
Limit:	Frequency		Limi	t (dBuV/m @3i	m)		Remark				
	30MHz-88MH	lz	40.0			Qı	uasi-peak Value				
	88MHz-216MH			43.5			uasi-peak Value				
	216MHz-960M			46.0			uasi-peak Value				
	960MHz-1GH	Z		54.0			uasi-peak Value				
	Above 1GHz	<u> </u>		54.0 74.0		,	Average Value Peak Value				
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 										
Test setup:	Below 1GHz EUT Turn Table Ground I Above 1GHz	0.8m	4m			s					





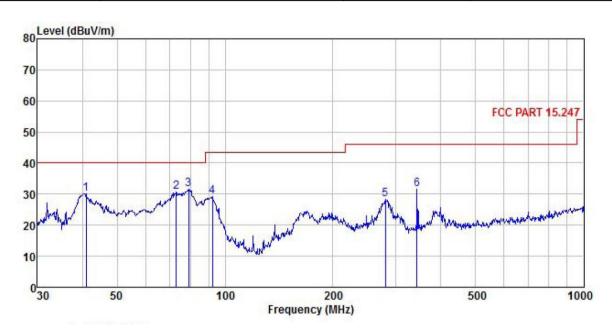
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Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	X659B
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∀			<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	40.988	46.96	12.82	0.36			30.25		-9.75	
2	73.103 79.243	48.94 48.05	10.98 12.59	0.45 0.47	0.00	29.65	30.68	40.00	-9.32 -8.54	QP
4 5 6	92.139 280.024 343.180	48.90 37.30 40.44	9.46 18.62 18.79	0.50 0.84 0.92	0.00	28.48	29.30 28.28 31.60	46.00	-14.20 -17.72 -14.40	QP

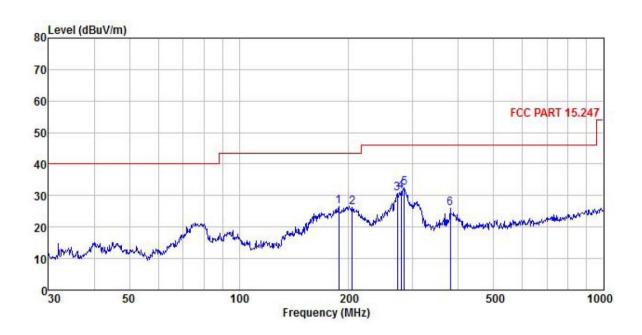
Romark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Product Name:	Mobile Phone	Product Model:	X659B		
Test By:	Mike	Test mode:	Wi-Fi Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq		Antenna Factor					Limit Line		Remark
_	MHz	₫₿u₹			<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	187.753	37.54	17.31	0.70	0.00	28.92	26.63	43.50	-16.87	QP
2	204.238	36.05	18.32	0.72	0.00	28.80	26.29	43.50	-17.21	QP
3	272.278	39.86	18.59	0.82	0.00	28.50	30.77	46.00	-15.23	QP
4	278.067	40.46	18.62	0.84	0.00	28.49	31.43	46.00	-14.57	QP
5	283.979	41.46	18.64	0.84	0.00	28.48	32.46	46.00	-13.54	QP
6	379.914	34.82	18.98	0.97	0.00	28.69	26.08	46.00	-19.92	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Above 1GHz

	802.11b												
Test channel: Lowest channel													
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4824.00	50.00	30.81	6.81	2.46	41.82	48.26	74.00	-25.74	Vertical				
4824.00	51.72	30.81	6.81	2.46	41.82	49.98	74.00	-24.02	Horizontal				
				Detector:	Average V	alue							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4824.00	40.76	30.81	6.81	2.46	41.82	39.02	54.00	-14.98	Vertical				
4824.00 41.73 30.81 6.81 2.46 41.82 39.99 54.00 -14.01 Horizonta													
l													

	Test channel: Middle channel												
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4874.00	50.09	30.93	6.85	2.47	41.84	48.50	74.00	-25.50	Vertical				
4874.00	51.83	30.93	6.85	2.47	41.84	50.24	74.00	-23.76	Horizontal				
				Detector:	Average V	alue							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4874.00	40.89	30.93	6.85	2.47	41.84	39.30	54.00	-14.70	Vertical				
4874.00	41.81	30.93	6.85	2.47	41.84	40.22	54.00	-13.78	Horizontal				

	Test channel: Highest channel													
Detector: Peak Value														
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4924.00	50.12	31.05	6.89	2.48	41.86	48.68	74.00	-25.32	Vertical					
4924.00	51.88	31.05	6.89	2.48	41.86	50.44	74.00	-23.56	Horizontal					
				Detector:	Average V	alue								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4924.00	40.92	31.05	6.89	2.48	41.86	39.48	54.00	-14.52	Vertical					
4924.00	41.93	31.05	6.89	2.48	41.86	40.49	54.00	-13.51	Horizontal					

Remark:

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^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





802.11g												
Test channel: Lowest channel												
	Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	49.98	30.81	6.81	2.46	41.82	48.24	74.00	-25.76	Vertical			
4824.00	51.35	30.81	6.81	2.46	41.82	49.61	74.00	-24.39	Horizontal			
				Detector:	Average V	alue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	40.38	30.81	6.81	2.46	41.82	38.64	54.00	-15.36	Vertical			
4824.00	41.24	30.81	6.81	2.46	41.82	39.50	54.00	-14.50	Horizontal			

Test channel: Middle channel											
Detector: Peak Value											
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
50.04	30.93	6.85	2.47	41.84	48.45	74.00	-25.55	Vertical			
51.41	30.93	6.85	2.47	41.84	49.82	74.00	-24.18	Horizontal			
			Detector:	Average Va	alue						
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
40.44	30.93	6.85	2.47	41.84	38.85	54.00	-15.15	Vertical			
41.37	30.93	6.85	2.47	41.84	39.78	54.00	-14.22	Horizontal			
()	Level dBuV) 50.04 51.41 Read Level dBuV) 40.44	Level Factor (dB/m) 50.04 30.93 51.41 30.93 Read Antenna Factor (dB/m) 40.44 30.93	Read Level Factor Loss (dBuV) (dB/m) (dB) 50.04 30.93 6.85 51.41 30.93 6.85 Read Level Factor Loss (dB/m) (dB) (dB/m) (dB) (dB/m) (dB) 40.44 30.93 6.85	Read Level Factor (dBuV) Cable Loss Factor (dB) Aux Factor (dB) 50.04 30.93 6.85 2.47 51.41 30.93 6.85 2.47 Detector: Read Antenna Level Factor (dB) Loss Factor (dB) Factor (dB) 40.44 30.93 6.85 2.47	Detector: Peak Vale	Detector: Peak Value	Detector: Peak Value	Detector: Peak Value			

Test channel: Highest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	50.15	31.05	6.89	2.48	41.86	48.71	74.00	-25.29	Vertical		
4924.00	51.59	31.05	6.89	2.48	41.86	50.15	74.00	-23.85	Horizontal		
				Detector:	Average V	alue					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4924.00	40.56	31.05	6.89	2.48	41.86	39.12	54.00	-14.88	Vertical		
4924.00	41.49	31.05	6.89	2.48	41.86	40.05	54.00	-13.95	Horizontal		

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^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





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802.11n(HT20) Test channel: Lowest channel												
	Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	49.82	30.81	6.81	2.46	41.82	48.08	74.00	-25.92	Vertical			
4824.00	51.21	30.81	6.81	2.46	41.82	49.47	74.00	-24.53	Horizontal			
Detector: Average Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	40.25	30.81	6.81	2.46	41.82	38.51	54.00	-15.49	Vertical			
4824.00	41.19	30.81	6.81	2.46	41.82	39.45	54.00	-14.55	Horizontal			
Test channel: Middle channel												
	Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	49.97	30.93	6.85	2.47	41.84	48.38	74.00	-25.62	Vertical			
4874.00	51.33	30.93	6.85	2.47	41.84	49.74	74.00	-24.26	Horizontal			
				Detector:	Average V	alue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	40.31	30.93	6.85	2.47	41.84	38.72	54.00	-15.28	Vertical			
4874.00	41.25	30.93	6.85	2.47	41.84	39.66	54.00	-14.34	Horizontal			
			Te		l: Highest c							
		T		1	r: Peak Val	ue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4924.00	50.14	31.05	6.89	2.48	41.86	48.70	74.00	-25.30	Vertical			
4924.00	51.42	31.05	6.89	2.48	41.86	49.98	74.00	-24.02	Horizontal			
				Detector:	Average V	alue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4924.00	40.44	31.05	6.89	2.48	41.86	39.00	54.00	-15.00	Vertical			
4924.00 Remark:	41.38	31.05	6.89	2.48	41.86	39.94	54.00	-14.06	Horizontal			

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^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





802.11n(HT40)											
Test channel: Lowest channel											
	Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4844.00	49.90	30.87	6.83	2.46	41.83	48.23	74.00	-25.77	Vertical		
4844.00	51.12	30.87	6.83	2.46	41.83	49.45	74.00	-24.55	Horizontal		
Detector: Average Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4844.00	40.11	30.87	6.83	2.46	41.83	38.44	54.00	-15.56	Vertical		
4844.00	41.16	30.87	6.83	2.46	41.83	39.49	54.00	-14.51	Horizontal		
			Te	est channe	l: Middle cl	nannel					
				Detector	: Peak Val	ue					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4074.00	E0 40	00.00	0.05	0.47	44.04	40 54	7400	05 40	17 - d' 1		

				Detecto	r: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.10	30.93	6.85	2.47	41.84	48.51	74.00	-25.49	Vertical
4874.00	51.26	30.93	6.85	2.47	41.84	49.67	74.00	-24.33	Horizontal
				Detector:	Average V	alue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	40.27	30.93	6.85	2.47	41.84	38.68	54.00	-15.32	Vertical
4874.00	41.29	30.93	6.85	2.47	41.84	39.70	54.00	-14.30	Horizontal
	-				-			-	

Test channel: Highest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4904.00	50.31	30.99	6.87	2.48	41.85	48.80	74.00	-25.20	Vertical		
4904.00	51.48	30.99	6.87	2.48	41.85	49.97	74.00	-24.03	Horizontal		
				Detector:	Average V	alue					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4904.00	40.33	30.99	6.87	2.48	41.85	38.82	54.00	-15.18	Vertical		
4904.00	41.38	30.99	6.87	2.48	41.85	39.87	54.00	-14.13	Horizontal		

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^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.