





RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd.

FCC ID XMR201707BG96

Product LTE Cat M1 & Cat NB1 & EGPRS Module

Brand Quectel

Model BG96, BG96 MINIPCIE

Marketing Quectel BG96, Quectel BG96 MINIPCIE

Report No. R1811A0536-R2

Issue Date February 26, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2018)/ FCC CFR 47 Part 24E (2018). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

Test Case	Clause in FCC rules	Verdict
RF power output	2.1046	PASS
Effective Isotropic Radiated power	24.232(c)	PASS
Occupied Bandwidth	2.1049	PASS
Band Edge Compliance	2.1051 /24.238(a)	PASS
Peak-to-Average Power Ratio	24.232/KDB 971168 D01(5.7)	PASS
Frequency Stability	2.1055 / 24.235	PASS
Spurious Emissions at Antenna Terminals	2.1051 / 24.238(a)	PASS
Radiates Spurious Emission	2.1053 / 24.238(a)	PASS
	RF power output Effective Isotropic Radiated power Occupied Bandwidth Band Edge Compliance Peak-to-Average Power Ratio Frequency Stability Spurious Emissions at Antenna Terminals	RF power output 2.1046 Effective Isotropic Radiated power Occupied Bandwidth Band Edge Compliance Peak-to-Average Power Ratio Frequency Stability 2.1051 / 24.238(a) 2.1055 / 24.235 Spurious Emissions at Antenna Terminals 2.1051 / 24.238(a)

Date of Testing: June 24 ,2017~July 3 ,2017 and December 20, 2018 ~ February 13, 2019

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

BG96, BG96 MINIPCIE (Report No: R1811A0536-R2) is a variant model of BG96 (Report No: RXA1706-0199RF02R1). Test items tested see the table below. The detailed product change description please refers to the ANNEX B.

Band	Original (RXA1706-0199RF02R1)	Variant (R1811A0536-R2)
GSM1900	Pass	Refer to the Original
LTE Band 2	Pass	Pass
LTE Band 25	NA	Pass

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1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of TA technology (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein . Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.





1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong

City: Shanghai

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2. General Description of Equipment under Test

Client Information

Applicant	Quectel Wireless Solutions Co., Ltd.
Applicant address	7th Floor, Hongye Building, No. 1801 Hongmei Road, Xuhui
Applicant address	District, Shanghai, China
Manufacturer	Quectel Wireless Solutions Co., Ltd.
Manufacturar address	7th Floor, Hongye Building, No. 1801 Hongmei Road, Xuhui
Manufacturer address	District, Shanghai, China

General information

	EUT Description							
Model	BG96, BG96 MINIPCI	396, BG96 MINIPCIE						
IMEI	866425038291656							
Hardware Version	R1.2							
Software Version	BG96MAR04A01M1G							
Power Supply	External power supply							
	The EUT don't have standard Antenna, The Antenna							
Antenna Type	for testing in this repo	rt is the after-market	accessory (Dipole					
	Antenna)							
Antenna Gain	4 dBi							
Test Mode(s)	GSM1900; LTE Band 2; LTE Band 25							
Test Modulation	(GSM)GMSK,8PSK; (LTE)QPSK,16QAM							
LTE Category	M1							
	GSM 1900: 32.43 dBm							
Maximum E.I.R.P	LTE Band 2: 29.66 dBm							
	LTE Band 25:	22.61 dBm						
Rated Power Supply Voltage	3.8V							
Extreme Voltage	Minimum: 3.3V Maximum: 4.3V							
Extreme Temperature	Lowest: -40°C Hig	ghest: +85°C						
	Band	Tx (MHz)	Rx (MHz)					
Operating Frequency Benga(a)	GSM1900	1850 ~ 1910	1930 ~ 1990					
Operating Frequency Range(s)	LTE Band 2	1850 ~ 1910	1930 ~ 1990					
	LTE Band 25	1850 ~ 1915	1930 ~ 1995					
Note: The information of the EUT	is declared by the man	ufacturer.	_					

The series model number is: BG96 MINIPCIE. The difference of these models are have different marketing requirement.

Accessory equipment						
Evaluation Board	RF Cable					
RS232-to-USB Cable	Antenna: Dipole Antenna					
Headset	USB Cable					

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3. Applied Standards

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

FCC CFR47 Part 2 (2018)

FCC CFR 47 Part 24E (2018)

ANSI C63.26 (2015)

KDB 971168 D01 Power Meas License Digital Systems v03r01



4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in GSM /LTE is set based on the maximum RF Output Power.

Test modes are chosen to be reported as the worst case configuration below:

Toot items	Modes/Modulation				
Test items	GSM 1900				
DE novembre	GPRS				
RF power output	EGPRS				
Effective Isotropic Radiated power	GPRS(1Tx slot)				
Ellective isotropic Radiated power	EGPRS(1Tx slot)				
Occupied Bandwidth	GPRS(1Tx slot)				
Occupied Bandwidth	EGPRS(1Tx slot)				
Band Edge Compliance	GPRS(1Tx slot)				
Band Lage Compliance	EGPRS(1Tx slot)				
Peak-to-Average Power Ratio	GPRS(1Tx slot)				
Teak-to-Average Fower Natio	EGPRS(1Tx slot)				
Frequency Stability	GPRS(1Tx slot)				
1 requeries stability	EGPRS(1Tx slot)				
Spurious Emissions at Antenna Terminals	GPRS(1Tx slot)				
Radiates Spurious Emission	GPRS(1Tx slot)				



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Test modes are chosen to be reported as the worst case configuration below for LTE Band 2/25

			Bar	ndwid	lth (N	IHz)		Modi	ulation		RB		Tes	t Char	nnel
Test items	Mode	1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	М	Н
RF power	LTE 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
output	LTE 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effective Isotropic	LTE 2	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Radiated power	LTE 25	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Occupied	LTE 2	0	0	0	0	0	0	0	0	-	0 -	0	-	0	-
Bandwidth	LTE 25	0	0	0	0	0	0	0	0	-	-	0	-	0	-
Band Edge	LTE 2	0	0	0	0	0	0	0	0	0	-	0	0	Œ	0
Compliance	LTE 25	0	0	0	0	0	0	0	0	0	-	0	0	-	0
Peak-to-Aver age Power	LTE 2	0	0	0	0	0	0	0	0	-	-	0	1_1	0	-
Ratio	LTE 25	0	0	0	0	0	0	0	0	-	-	0	-	0	-
Frequency	LTE 2	0	0	0	0	0	0	0	0	-	-	0	-	0	-
Stability	LTE 25	0	0	0	0	0	0	0	0	-	-	0	-	0	-
Conducted Spurious	LTE 2	0	0	0	0	0	0	0	-	0	-	-	0	0	0
Emissions	LTE 25	0	0	0	0	0	0	0	-	0	-	-	0	0	0
Radiates Spurious	LTE 2	-	-	-	-	-	0	0	-	0	-	-	0	0	0
Emission	LTE 25	-	-	-	-	-	0	0	-	0	-	-	0	0	0
Note		The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing.													

^{2.} The mark "-" means that this configuration is not testing.



5. Test Case Results

5.1.RF Power Output

Ambient condition

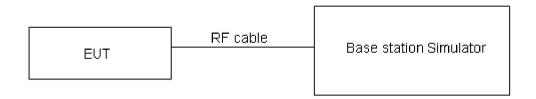
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 0.4 dB.

Test Results

		Conducted Power(dBm)				
GSM	1900	Channel 512	Channel 661	Channel 810		
		1850.2(MHz)	1880(MHz)	1909.8(MHz)		
	1TXslot	29.76	29.66	29.46		
GPRS	2TXslots	29.65	29.57	29.38		
(GMSK)	3TXslots	29.51	29.45	29.27		
	4TXslots	29.42	29.32	29.16		
	1TXslot	26.06	25.88	25.84		
EGPRS	2TXslots	25.89	25.81	25.68		
(8PSK)	3TXslots	25.78	25.64	25.49		
	4TXslots	25.57	25.45	25.38		

Mode	Bandwidth	Channel/	RB#	Index	Conducted F	Power (dBm)
Mode	Dariuwiutii	Frequency(MHz)	RBstart	illuex	QPSK	16QAM
	1.4MHz	18607/1850.7	1#0	0	23.25	23.80
		10007/1000.7	6#0	0	23.42	23.52
		18900/1880	1#0	0	23.37	23.83
	1.4101112	10900/1000	6#0	0	23.55	23.72
		19193/1909.3	1#5	0	23.73	23.84
		19193/1909.3	6#0	0	23.70	23.74
		18615/1851.5	1#0	0	23.84	23.83
		18015/1851.5	6#0	0	23.74	23.55
	3MHz	18900/1880	1#0	0	23.41	23.85
	3IVIHZ		6#0	0	23.59	23.76
		19185/1908.5	1#5	1	23.76	23.87
			6#0	1	23.73	23.77
Band2	5MHz	18625/1852.5	1#0	0	23.24	23.80
Danuz			6#0	0	23.43	23.53
		18900/1880	1#0	0	23.39	23.81
			6#0	0	23.58	23.72
		19175/1907.5	1#5	3	23.72	23.84
		19175/1907.5	6#0	3	23.71	23.72
		40050/4055	1#0	0	23.26	23.82
		18650/1855	4#0	0	23.51	23.56
	10MHz	18900/1880	1#0	0	23.40	23.84
	TOWINZ	10900/1000	4#0	0	23.60	23.77
		19150/1905	1#5	7	23.75	23.86
		19130/1903	4#2	7	23.75	23.76
	15MHz	18675/1857.5	1#0	0	23.25	23.77
	I JIVII IZ	1007 5/ 1007 .5	6#0	0	23.49	23.53



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		10000/1000	1#0	0	23.36	23.82
		18900/1880	6#0	0	23.56	23.72
		19125/1902.5	1#5	11	23.73	23.84
		19125/1902.5	6#0	11	23.70	23.72
		18700/1860	1#0	0	23.22	23.75
	20MHz		6#0	0	23.46	23.51
		18900/1880	1#0	0	23.32	23.78
			6#0	0	23.51	23.68
		19100/1900	1#5	15	23.70	23.79
			6#0	15	23.66	23.69



Mode	Bandwidth	Channel/	RB#	Index	Conducted F	Power (dBm)
Mode	Baridwidtri	Frequency(MHz)	RBstart	index	QPSK	16QAM
		26047/1850.7	1#0	0	23.41	24.08
		20047/1650.7	6#0	0	23.53	23.64
	1.4MHz	26365/1882.5	1#0	0	24.10	23.94
	1.4IVITZ	20303/1002.3	6#0	0	23.53	23.56
		26683/1914.3	1#5	0	23.50	23.98
		20003/1914.3	6#0	0	23.62	23.66
		26055/1851.5	1#0	0	23.32	23.88
		20055/1651.5	6#0	0	23.63	23.56
	3MHz	26365/1882.5	1#0	0	23.79	23.02
	SIVITZ	20303/1002.3	6#0	0	23.63	24.00
		26675/1012 5	1#5	1	24.02	23.20
		26675/1913.5	6#0	1	23.70	24.12
		26065/1852.5	1#0	0	23.77	23.25
	5MHz		6#0	0	23.66	24.17
		26365/1882.5	1#0	0	23.69	23.55
			6#0	0	23.60	24.24
		26665/1912.5	1#5	0	23.70	24.52
Dand OF			6#0	3	23.76	23.86
Band 25		26090/1855	1#0	0	23.79	23.38
	10MHz		4#0	0	24.00	24.37
		26365/1882.5	1#0	0	23.50	24.41
			4#0	0	23.66	23.47
		26640/1910	1#5	4	23.65	24.53
			4#2	7	23.85	23.55
		26115/1057 5	1#0	0	23.85	23.42
		26115/1857.5	6#0	0	23.72	24.09
	45MH-	00005/1000 5	1#0	0	23.56	24.41
	15MHz	26365/1882.5	6#0	0	23.68	23.90
		2664E/4007 E	1#5	8	23.62	24.50
		26615/1907.5	6#0	11	23.81	23.80
		00440/4000	1#0	0	23.81	23.41
		26140/1860	6#0	0	23.81	24.24
	201411-	2626E/1002 E	1#0	0	23.58	24.42
	20MHz	26365/1882.5	6#0	0	23.78	23.74
		26500/4005	1#5	12	23.99	23.63
		26590/1905	6#0	15	23.84	24.28

5.2. Effective Isotropic Radiated Power

FCC RF Test Report

Ambient condition

Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

Methods of Measurement

The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).

- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.LOSS = Generator Output Power (dBm) Analyzer reading (dBm)
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:ERP (dBm) = LVL (dBm) + LOSS (dB)
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g.transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:

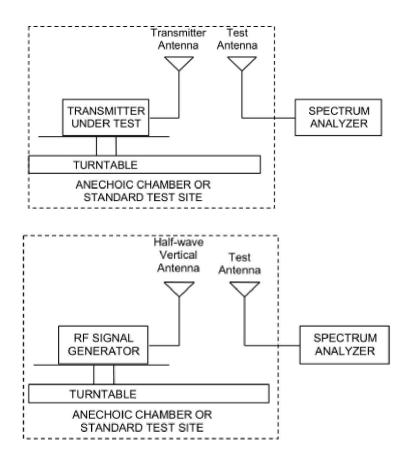
EIRP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBi) where:dBd refers to gain relative to an ideal dipole.

EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

The RB allocation refers to section 5.1, using the maximum output power configuration.



Test setup



Limits

Rule Part 24.232(c) Mobile and portable stations are limited to 2 watts EIRP.

Rule Part 24.232(e) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 1.19 dB

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Test Results:

The measurement is performed for both of horizontal and vertical antenna Polarization, and only the data of worst mode is recorded in this report.

Mode	Polarization	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Conclusion
	Н	1850.2	31.88	33	Pass
GPRS 1900	Н	1880	31.82	33	Pass
	Н	1909.8	32.43	33	Pass
ECDDS	Н	1850.2	28.06	33	Pass
EGPRS	Н	1880	27.88	33	Pass
1900	Н	1909.8	27.84	33	Pass

LTE Band 2									
Bandwidth	Channel/ Frequency (MHz)			Index	EIRP (dBm)	Limit (dBm)	Conclusion		
4 4 5 5 1 1	18607/1850.7	Horizontal	1#0	0	28.96	33	Pass		
1.4 MHz (QPSK)	18900/1880	Horizontal	1#2	0	29.66	33	Pass		
(QPSK)	19193/1909.3	Horizontal	1#5	0	29.38	33	Pass		
3 MHz	18615/1851.5	Horizontal	1#0	0	29.27	33	Pass		
	18900/1880	Horizontal	1#5	0	29.54	33	Pass		
(QPSK)	19185/1908.5	Horizontal	1#5	1	29.45	33	Pass		
5 MHz	18625/1852.5	Horizontal	1#0	0	28.76	33	Pass		
	18900/1880	Horizontal	1#5	1	28.96	33	Pass		
(QPSK)	19175/1907.5	Horizontal	1#5	3	29.00	33	Pass		
40 MII-	18650/1855	Horizontal	4#0	0	27.74	33	Pass		
10 MHz	18900/1880	Horizontal	4#2	3	28.31	33	Pass		
(QPSK)	19150/1905	Horizontal	4#2	7	28.25	33	Pass		
15 MHz	18675/1857.5	Horizontal	1#0	0	27.23	33	Pass		
(555)-09-01 500-01-000-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-01-00-0	18900/1880	Horizontal	1#5	5	27.53	33	Pass		
(QPSK)	19125/1902.5	Horizontal	1#5	11	27.53	33	Pass		
20 MII-	18700/1860	Horizontal	6#0	0	26.34	33	Pass		
20 MHz	18900/1880	Horizontal	6#0	7	26.74	33	Pass		
(QPSK)	19100/1900	Horizontal	6#0	15	26.67	33	Pass		
4 4 8411-	18607/1850.7	Horizontal	1#0	0	28.65	33	Pass		
1.4 MHz	18900/1880	Horizontal	1#2	0	29.30	33	Pass		
(16QAM)	19193/1909.3	Horizontal	1#5	0	29.05	33	Pass		
2 MII-	18615/1851.5	Horizontal	1#0	0	29.00	33	Pass		
3 MHz	18900/1880	Horizontal	1#5	0	29.22	33	Pass		
(16QAM)	19185/1908.5	Horizontal	1#5	1	29.15	33	Pass		
5 MHz	18625/1852.5	Horizontal	1#0	0	28.42	33	Pass		

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(16QAM)	18900/1880	Horizontal	1#5	1	28.66	33	Pass	
	19175/1907.5	Horizontal	1#5	3	28.69	33	Pass	
40 MU-	18650/1855	Horizontal	4#0	0	27.42	33	Pass	
10 MHz	18900/1880	Horizontal	4#2	3	28.01	33	Pass	
(16QAM)	19150/1905	Horizontal	4#2	7	27.95	33	Pass	
45 MU-	18675/1857.5	Horizontal	1#0	0	26.92	33	Pass	
15 MHz	18900/1880	Horizontal	1#5	5	27.22	33	Pass	
(16QAM)	19125/1902.5	Horizontal	1#5	11	27.22	33	Pass	
20 MU-	18700/1860	Horizontal	6#0	0	26.04	33	Pass	
20 MHz (16QAM)	18900/1880	Horizontal	6#0	7	26.41	33	Pass	
	19100/1900	Horizontal	6#0	15	26.35	33	Pass	

LTE Band 25									
bandwidth	Channel	Frequency (MHz)	Polarization	RB	Index	EIRP (dBm)	Limit (dBm)	Conclusion	
1.4 MHz	Low	1850.7	Horizontal	1#0	0	22.16	33	Pass	
(QPSK)	Mid	1882.5	Horizontal	1#2	0	22.06	33	Pass	
(QI OIL)	High	1914.3	Horizontal	1#5	0	21.27	33	Pass	
2 MH-	Low	1851.5	Horizontal	1#0	0	22.23	33	Pass	
3 MHz (QPSK)	Mid	1882.5	Horizontal	1#5	0	22.12	33	Pass	
(QPSK)	High	1913.5	Horizontal	1#5	1	21.68	33	Pass	
F 8411	Low	1852.5	Horizontal	1#0	0	22.37	33	Pass	
5 MHz	Mid	1882.5	Horizontal	1#5	1	22.24	33	Pass	
(QPSK)	High	1912.5	Horizontal	1#5	3	21.37	33	Pass	
40 1411	Low	1855	Horizontal	4#0	0	22.49	33	Pass	
10 MHz	Mid	1882.5	Horizontal	4#2	3	21.89	33	Pass	
(QPSK)	High	1910	Horizontal	4#2	7	21.45	33	Pass	
4=	Low	1857.5	Horizontal	1#0	0	22.59	33	Pass	
15 MHz	Mid	1882.5	Horizontal	1#5	5	22.03	33	Pass	
(QPSK)	High	1907.5	Horizontal	1#5	11	21.47	33	Pass	
	Low	1860	Horizontal	6#0	0	22.61	33	Pass	
20 MHz	Mid	1882.5	Horizontal	6#0	7	22.29	33	Pass	
(QPSK)	High	1905	Horizontal	6#0	15	21.11	33	Pass	
4 4 5 5 5 1	Low	1850.7	Horizontal	1#0	0	21.67	33	Pass	
1.4 MHz	Mid	1882.5	Horizontal	1#2	0	21.59	33	Pass	
(16QAM)	High	1914.3	Horizontal	1#5	0	20.83	33	Pass	
0.85	Low	1851.5	Horizontal	1#0	0	21.76	33	Pass	
3 MHz	Mid	1882.5	Horizontal	1#5	0	21.68	33	Pass	
(16QAM)	High	1913.5	Horizontal	1#5	1	21.09	33	Pass	
5 MHz	Low	1852.5	Horizontal	1#0	0	21.77	33	Pass	



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	LTE Band 25									
bandwidth	Channel	Frequency (MHz)	Polarization	RB	Index	EIRP (dBm)	Limit (dBm)	Conclusion		
(16QAM)	Mid	1882.5	Horizontal	1#5	1	21.69	33	Pass		
	High	1912.5	Horizontal	1#5	3	20.81	33	Pass		
40 MH-	Low	1855	Horizontal	4#0	0	22.01	33	Pass		
10 MHz (16QAM)	Mid	1882.5	Horizontal	4#2	3	21.39	33	Pass		
(TOQAWI)	High	1910	Horizontal	4#2	7	20.97	33	Pass		
46 MII-	Low	1857.5	Horizontal	1#0	0	21.93	33	Pass		
15 MHz (16QAM)	Mid	1882.5	Horizontal	1#5	5	21.51	33	Pass		
(TOQAIVI)	High	1907.5	Horizontal	1#5	11	21.04	33	Pass		
00 МП	Low	1860	Horizontal	6#0	0	22.14	33	Pass		
20 MHz (16QAM)	Mid	1882.5	Horizontal	6#0	7	21.67	33	Pass		
(TOQAIVI)	High	1905	Horizontal	6#0	15	20.51	33	Pass		