RF TESTREPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

Mobile Phone

ISSUED TO mMax Communications, Inc.

5151 California Ave. Suite 100, Irvine, CA 92617 US



Tested by: J'anh. L4

Jiamin Lu

Date Feb. 16, 2022

Approved by: _, }m lime

Liao Jianming

(Technical Director)

Date Feb. 16, 2022

Report No.: BL-SZ21B0604-501

EUT Name: Mobile Phone

Model Name: M55

Brand Name: mMax

Test Standard: 47 CFR Part 2

47 CFR Part 22

47 CFR Part 24

47 CFR Part 27

(refer section 3.1)

FCC ID: 2AWVS-M55

Test Conclusion: Pass

Test Date: Nov. 17, 2021 ~ Nov. 24, 2021

Date of Issue: Feb. 16, 2022

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Revision History

Version

Issue Date

Revisions Content

Rev. 01

Feb. 16, 2022

Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Addroop	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a
Accreditation Certificate	accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are
	located at Block B, FL 1, Baisha Science and Technology Park, Shahe
	Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
	China 518055

1.3 Laboratory Condition

Ambient Temperature	20 °C to 35 °C
Ambient Relative Humidity	30 % to 60 %
Ambient Pressure	98 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v6.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. The applicant is responsible for the impact of the information provided on the validity of the results.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	mMax Communications, Inc.	
Address	5151 California Ave. Suite 100, Irvine, CA 92617 US	

2.2 Manufacturer Information

Manufacturer	mMax Communications, Inc.
Address	5151 California Ave. Suite 100, Irvine, CA 92617 US

2.3 Factory Information

Factory	Sichuan Lingge Zhigu Technology Co., Ltd
Address	Lingge Industrial Park, No. 1, section 4, west section of Changjiang North Road, Lingang Economic Development Zone, Yibin City, Sichuan Province

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	M55
Series Model Name	N/A
Description of Model	N/A
name differentiation	N/A
Hardware Version	M55-MB-1V0
Software Version	LTE_S0211_N_M55_0.010.08
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A



2.5 Technical Information

Note: The information provided by the applicant, except for The Max RF Output Power (EIRP/ERP).

······································		
All Network and	4G Network FDD LTE Band 2/4/5/13	
	Bluetooth (BR+EDR+BLE)	
Wireless connectivity	WIFI 802.11b, 802.11g, 802.11n(HT20)	
for EUT	GPS, GLONASS, FM Receiver	
Ale and the a Dona donat	The equipment is LTE Digital Mobile Handset, intended for used with	
About the Product	information technology equipment.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Bands	FDD LTE Band 2/ 4/ 5/ 13		
	LTE	QPSK	
		16QAM	
	FDD LTE Band	2: 1850 MHz ~ 1910 MHz	
TX Frequency Range	FDD LTE Band	4: 1710 MHz ~ 1755 MHz	
TA Frequency Range	FDD LTE Band	5: 824 MHz ~ 849 MHz	
	FDD LTE Band	13: 777 MHz ~ 787 MHz	
	FDD LTE Band	2: 1930 MHz ~ 1990 MHz	
Rx Frequency Range	FDD LTE Band 4: 2110 MHz ~ 2155 MHz		
nx Frequency name	FDD LTE Band 5: 869 MHz ~ 894 MHz		
	FDD LTE Band 13: 746 MHz ~ 756 MHz		
	FDD LTE Band	2: 3	
Power Class	FDD LTE Band 4: 3		
1 Owel Class	FDD LTE Band	5: 3	
	FDD LTE Band 13: 3		
Antenna Type	PIFA Antenna		
	FDD LTE Band	2: 1.4 dBi	
Antenna Gain	FDD LTE Band 4: 1.4 dBi		
Antenna Gain	FDD LTE Band 5: 1.4 dBi		
	FDD LTE Band 13: 1.4 dBi		
	FDD LTE Band	2: 25.89 dBi	
The Max RF Output	FDD LTE Band	4: 26.91 dBi	
Power (EIRP/ERP)	FDD LTE Band 5: 23.76 dBi		
	FDD LTE Band 13: 23.61 dBi		

Note 1: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title	
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters;	
ı		General Rules and Regulations	
2	47 CFR Part 22	Callular Radiatalanhana Sanjiga	
2	Subpart H	Cellular Radiotelephone Service	
3	47 CFR Part 24	Broadband PCS	
3	Subpart E	Broadband PCS	
4	47 CFR Part 27	Miscellaneous Wireless Communications Services	
5	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment	
3		Measurement and Performance Standards	
6	KDB 971168	Measurement Guidance for Certification of Licensed Digital	
0	D01 v03	Transmitters	



3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
		2.1046		
2	Effective (Isotropic) Radiated Power	22.913	ANNEX A.1	Pass
2	Lifective (Isotropic) Natiated Fower	24.232	ANNLA A. I	Fass
		27.50		
		2.1046		
3	Peak to Average Radio	24.232(d)	ANNEX A.2	Pass
		27.50(d)		
		2.1049		
4	Occupied Bandwidth	22.917	ANNEX A.3	Pass
	Cocapica Banawidin	24.238	71141412/71.0	1 433
		27.53		
		2.1055		
5	Frequency Stability	22.355	ANNEX A.4	Pass
		24.235	711112771.4	1 433
		27.54		
		2.1051		
6	Spurious Emission at	22.917	ANNEX A.5	Pass
	Antenna Terminals	24.238	711112771.0	1 400
		27.53		
		2.1051		
7	Band Edge	22.917	ANNEX A.6	Pass
•	Dana Lage	24.238	711112771.0	1 400
		27.53		
		2.1053		
8	Field Strength of Spurious Radiation	22.917	ANNEX A.7	Pass
	c. cga. c. opaneas radiation	24.238	,	. 355
		27.53		



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

	NV (Normal Voltage)	3.8 V
Test Voltage of the EUT	LV (Low Voltage)	3.5 V
	HV (High Voltage)	4.35 V
	NT (Normal Temperature)	+25 °C
Test Temperature of the EUT	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+60 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Conducted Test Sys	stem					
Test Software 1	R&S	CMUgo	N/A	V2.0.1	N/A	N/A
Test Software 2	R&S	CMWRun	N/A	V1.9.8	N/A	N/A
Test Software 3	BALUN	BL410R	N/A	V2.1.1.48 8	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2021.01.14	2022.01.13
Wideband Radio Communication Tester	R&S	CMW 500	127794	V3.5.137	2021.06.01	2022.05.31
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.5.137	2021.01.14	2022.01.13
Spectrum Analyzer	R&S	FSV-40	101544	2.30.SP4	2021.06.01	2022.05.31
Spectrum Analyzer	Agilent	E4440A	MY45304434	A.11.21	2021.09.08	2022.09.07
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2020.10.01	2022.10.10
Temperature Chamber	AHK	SP20	1412	N/A	2021.06.04	2022.06.03
DC Power Supply	ITECH	IT6863A	8000140207 57120008	N/A	2021.09.12	2022.09.11
Power Sensor	Agilent	E9304A H18	MY41497164	N/A	2021.09.08	2022.09.07
Power Splitter	KMW	DCPD- LDC	1305003215	N/A	N/A	N/A
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	N/A	N/A	N/A



Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	N/A	N/A	N/A
Radiated Test Syste	em					
Test Software	BALUN	BL410_E	N/A	V19.918	N/A	N/A
Test Antenna- Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2019.07.02	2022.07.01
Test Antenna- Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	9120D-1917	N/A	2019.07.02	2022.07.01
Test Antenna- Horn(18-40 GHz)	A-INFO	LB- 180400KF	J211060273	N/A	2021.01.04	2023.01.03
Anechoic Chamber	YIHENG	9m*6m*6m	#3	N/A	2018.07.18	2022.07.17
EMI Receiver	KEYSIGHT	N9038A	MY53220118	A.14.16	2021.09.13	2022.09.12
Wideband Radio Communication Tester	R&S	CMW 500	127794	V3.2.73	2021.06.01	2022.05.31



4.3 Test Configurations

LTE		Bar	ndwid	th (MF	Hz)		Modula	tion Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
					Effe	ctive	(Isotropic)	Radiated F	ower					
2	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	V	V
4	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	V
5	٧	٧	٧	٧	n	n	٧	V	٧	٧	٧	٧	V	V
13	n	n	٧	٧	n	n	٧	V	٧	٧	٧	٧	٧	V
						Pe	ak to Ave	rage Ratio						
2						٧	V	V	V		V	٧	V	V
4						٧	V	V	V		V	V	V	V
5				٧	n	n	V	V	V		V	V	V	V
13	n	n		٧	n	n	V	V	V		V	V	V	V
						0	ccupied E	Bandwidth						
2	V	V	٧	٧	٧	٧	V	V			V	V	V	V
4	V	V	٧	V	٧	٧	V	V			V	V	V	V
5	V	V	٧	٧	n	n	V	V			V	V	V	V
13	n	n	٧	٧	n	n	V	V			V	V	V	V
				1		F	requency	Stability		ľ				
2				٧			V	V			V		V	
4				٧			V	V			V		V	
5				٧	n	n	V	V			V		V	
13	n	n		V	n	n	V	V			V		V	
					Spurio	us En	nission at	Antenna Te	ermina	als				
2	V	V	٧	V	٧	٧	V	V	V			V	V	V
4	V	V	٧	٧	٧	٧	V	V	٧			V	V	V
5	V	V	V	V	n	n	V	V	V			V	V	V
13	n	n	V	V	n	n	V	V	V			V	V	V
							Band B	Edge						
2	V	V	٧	V	V	V	V	V	٧		V	V		V
4	V	V	٧	V	V	V	V	V	٧		V	V		V
5	V	V	٧	V	n	n	V	V	٧		V	V		V
13	n	n	٧	V	n	n	V	V	V		V	V		V
				ı	Field	d Stre	ngth of S	ourious Rac	diation					
2	٧	V	٧	V	٧	٧	V	-	V				V	
4	٧	V	٧	V	٧	٧	V	-	V				V	
5	V	V	٧	V	n	n	V		V				V	
13	n	n	٧	V	n	n	V		V				V	

Note 1: The mark "v" means that this configuration is chosen for testing.

Note 2: The mark "n" means that this bandwidth is not supported.

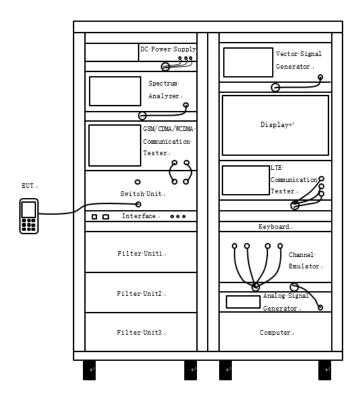


Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)	
		1.4	18607	1850.7	
		3	18615	1851.5	
	Low Range	5	18625	1852.5	
	Low Nange	10	18650	1855	
		15	18675	1857.5	
		20	18700	1860	
LTE Band 2	Middle Range	1.4/3/5/10/15/20	18900	1880	
		1.4	19193	1909.3	
		3	19185	1908.5	
	High Dongs	5	19175	1907.5	
	High Range	10	19150	1905	
		15	19125	1902.5	
		20	19100	1900	
		1.4	19957	1710.7	
		3	19965	1711.5	
	Low Range	5	19975	1712.5	
		10	20000	1715	
		15	20025	1717.5	
		20	20050	1720	
LTE Band 4	Middle Range	1.4/3/5/10/15/20	20175	1732.5	
		1.4	20393	1754.3	
		3	20385	1753.5	
	Liberta Daniera	5	20375	1752.5	
	High Range	10	20350	1750	
		15	20325	1747.5	
		20	20300	1745	
		1.4	20407	824.7	
	Law Danga	3	20415	825.5	
	Low Range	5	20425	826.5	
		10	20450	829	
LTE Band 5	Middle Range	1.4/3/5/10	20525	836.5	
		1.4	20643	848.3	
	High Dongs	3	20635	847.5	
	High Range	5	20625	846.5	
		10	20600	844	
	Low Ponce	5	23205	779.5	
	Low Range	10	23230	782	
LTE Band 13	Middle Range	5/10	23230	782	
	High Dance	5	23255	784.5	
	High Range	10	23230	782	



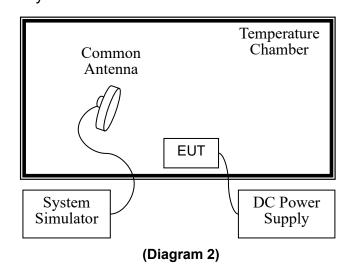
4.4 Test Setup

4.4.1 For Antenna Port Test



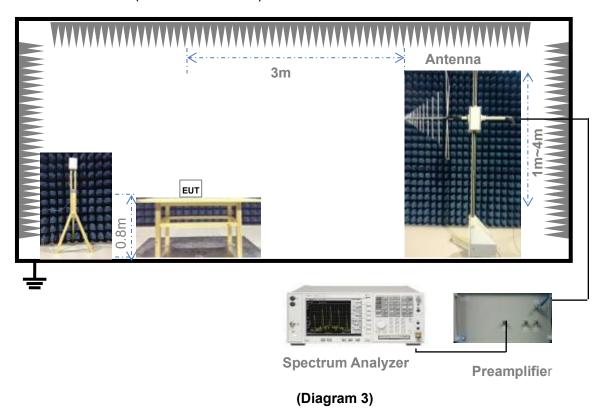
(Diagram 1)

4.4.2 For Frequency Stability Test

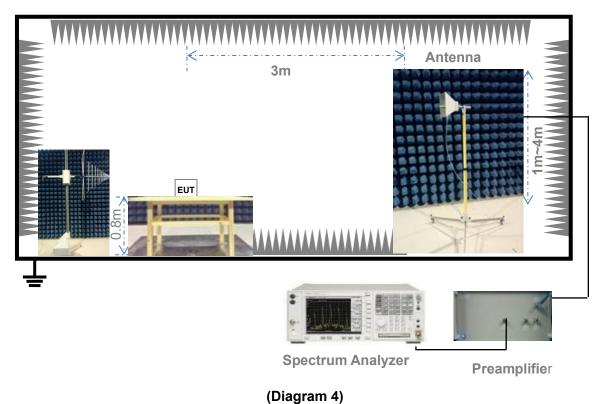




4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



4.4.4 For Radiated Test (Above 1 GHz)





5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.



The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 dBm

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = P_{Meas} + GT - LC

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.



For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

EIRP for GSM1900 = 30.2 dBm - 3.4 dBi - 0.6 dB = 26.2 dBm

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP (dBm) = 21dBm + 8dB = 29dBm

5.1.4 Test Result

Please refer to ANNEX A.1.



5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 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. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.



Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

 $PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$

5.2.4 Test Result

Please refer to ANNEX A.2.



5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target "-X dB down" requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.



h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the "-X dB down amplitude" as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below "-X dB down amplitude" determined in step g). If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

- i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
- j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.



5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.



5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

- 1. The EUT is placed in a temperature chamber.
- 2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
- 3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
- 4. Repeat procedure 3 until +50°C and -30°C is reached.
- 5. Change supply voltage, and repeat measurement until extreme voltage is reached.

5.4.4 Test Result

Please refer to ANNEX A.4.



5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) &27.53(g) & 27.53(h) & 27.53(m)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;



- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P) dB$.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on



frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

- 1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- 3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.



5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;



- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P) dB$.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.



5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

- 1.The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- 3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. The center of the spectrum analyzer was set to block edge frequency.
- 5. Band edge are tested with 1%*cBW (RBW), and sweep point number referred to following formula.

Sweep point number = 2*Span/RBW

VBW=3RBW

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

10*log(10 kHz / 6.25 kHz) = 2.04 dBLimit Line = -35 dBm + 2.04 dB = -32.96dBm

5.6.4 Test Result

Please refer to ANNEX A.6.



5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m)

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be



adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P) dB$.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.



5.7.3 Test Procedure

- 1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
- 2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
- 3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
- 4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
- 5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
- 7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
- 9. The maximum signal level detected by the measuring receiver shall be noted.
- 10. The EUT was replaced by half-wave dipole (824 \sim 849 MHz) or horn antenna (1 850 \sim 1 910 MHz) connected to a signal generator.
- 11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- 14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.



Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP (dBm) = 21dBm + 8dB = 29dBm

5.7.4 Test Result

Please refer to ANNEX A.7.



ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
			RB1#0	24.36	1.4	25.76	0.377	2.00	Pass
			RB1#3	24.19	1.4	25.59	0.362	2.00	Pass
			RB1#5	24.03	1.4	25.43	0.349	2.00	Pass
		QPSK	RB3#0	23.83	1.4	25.23	0.333	2.00	Pass
			RB3#2	24	1.4	25.40	0.347	2.00	Pass
			RB3#3	24.09	1.4	25.49	0.354	2.00	Pass
	1.011		RB6#0	23.91	1.4	25.31	0.340	2.00	Pass
	LCH		RB1#0	24.26	1.4	25.66	0.368	2.00	Pass
			RB1#3	24.3	1.4	25.70	0.372	2.00	Pass
			RB1#5	24.27	1.4	25.67	0.369	2.00	Pass
		16-QAM	RB3#0	23.67	1.4	25.07	0.321	2.00	Pass
			RB3#2	23.73	1.4	25.13	0.326	2.00	Pass
			RB3#3	23.71	1.4	25.11	0.324	2.00	Pass
			RB6#0	22.79	1.4	24.19	0.262	2.00	Pass
		QPSK	RB1#0	23.97	1.4	25.37	0.344	2.00	Pass
			RB1#3	23.87	1.4	25.27	0.337	2.00	Pass
1.4 MHz			RB1#5	23.9	1.4	25.30	0.339	2.00	Pass
			RB3#0	23.98	1.4	25.38	0.345	2.00	Pass
			RB3#2	24.09	1.4	25.49	0.354	2.00	Pass
			RB3#3	24	1.4	25.40	0.347	2.00	Pass
	MCH		RB6#0	24.03	1.4	25.43	0.349	2.00	Pass
	IVICH		RB1#0	23.97	1.4	25.37	0.344	2.00	Pass
			RB1#3	23.94	1.4	25.34	0.342	2.00	Pass
			RB1#5	23.9	1.4	25.30	0.339	2.00	Pass
		16-QAM	RB3#0	23.68	1.4	25.08	0.322	2.00	Pass
			RB3#2	23.68	1.4	25.08	0.322	2.00	Pass
			RB3#3	23.84	1.4	25.24	0.334	2.00	Pass
			RB6#0	22.93	1.4	24.33	0.271	2.00	Pass
			RB1#0	23.87	1.4	25.27	0.337	2.00	Pass
			RB1#3	23.95	1.4	25.35	0.343	2.00	Pass
	НСП	ODGIZ	RB1#5	24.15	1.4	25.55	0.359	2.00	Pass
	HCH	QPSK	RB3#0	23.91	1.4	25.31	0.340	2.00	Pass
			RB3#2	23.96	1.4	25.36	0.344	2.00	Pass
			RB3#3	23.88	1.4	25.28	0.337	2.00	Pass



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
			,	(dBm)	(dBi)	,	,	()	
LTE BAND2									
			RB6#0	23.81	1.4	25.21	0.332	2.00	Pass
			RB1#0	23.88	1.4	25.28	0.337	2.00	Pass
			RB1#3	23.82	1.4	25.22	0.333	2.00	Pass
			RB1#5	23.81	1.4	25.21	0.332	2.00	Pass
		16-QAM	RB3#0	24.08	1.4	25.48	0.353	2.00	Pass
			RB3#2	24.31	1.4	25.71	0.372	2.00	Pass
			RB3#3	24.22	1.4	25.62	0.365	2.00	Pass
			RB6#0	22.73	1.4	24.13	0.259	2.00	Pass
			RB1#0	24.21	1.4	25.61	0.364	2.00	Pass
			RB1#7	24.04	1.4	25.44	0.350	2.00	Pass
			RB1#14	23.79	1.4	25.19	0.330	2.00	Pass
		QPSK	RB8#0	24.04	1.4	25.44	0.350	2.00	Pass
			RB8#4	23.98	1.4	25.38	0.345	2.00	Pass
			RB8#7	23.95	1.4	25.35	0.343	2.00	Pass
	LCH		RB15#0	23.94	1.4	25.34	0.342	2.00	Pass
		16-QAM	RB1#0	24.2	1.4	25.60	0.363	2.00	Pass
			RB1#7	24.19	1.4	25.59	0.362	2.00	Pass
			RB1#14	23.72	1.4	25.12	0.325	2.00	Pass
			RB8#0	22.99	1.4	24.39	0.275	2.00	Pass
			RB8#4	23.05	1.4	24.45	0.279	2.00	Pass
			RB8#7	22.87	1.4	24.27	0.267	2.00	Pass
			RB15#0	22.96	1.4	24.36	0.273	2.00	Pass
3 MHz			RB1#0	24.06	1.4	25.46	0.352	2.00	Pass
02			RB1#7	23.92	1.4	25.32	0.340	2.00	Pass
			RB1#14	24.07	1.4	25.47	0.352	2.00	Pass
		QPSK	RB8#0	24.2	1.4	25.60	0.363	2.00	Pass
			RB8#4	24.24	1.4	25.64	0.366	2.00	Pass
			RB8#7	24.15	1.4	25.55	0.359	2.00	Pass
	MCH		RB15#0	24.13	1.4	25.53	0.357	2.00	Pass
			RB1#0	24.26	1.4	25.66	0.368	2.00	Pass
			RB1#7	24.26	1.4	25.66	0.368	2.00	Pass
			RB1#14	23.55	1.4	24.95	0.313	2.00	Pass
		16-QAM	RB8#0	23.05	1.4	24.45	0.279	2.00	Pass
			RB8#4	23.27	1.4	24.67	0.293	2.00	Pass
			RB8#7	23.06	1.4	24.46	0.279	2.00	Pass
			RB15#0	23.13	1.4	24.53	0.284	2.00	Pass
			RB1#0	24.08	1.4	25.48	0.353	2.00	Pass
	HCH	QPSK	RB1#7	23.91	1.4	25.31	0.340	2.00	Pass
			RB1#14	23.78	1.4	25.18	0.330	2.00	Pass



				Conducted	Antenna				
Test	Test	Test	Test RB	Output AV	Gain	EIRP	EIRP	Limit	Verdict
BW	Channel	Mode	(Size#Offset)	Power	(dBi)	(dBm)	(W)	(W)	Verdict
				(dBm)	(ubi)				
LTE BAND2									
			RB8#0	23.89	1.4	25.29	0.338	2.00	Pass
			RB8#4	23.86	1.4	25.26	0.336	2.00	Pass
			RB8#7	23.8	1.4	25.20	0.331	2.00	Pass
			RB15#0	23.93	1.4	25.33	0.341	2.00	Pass
			RB1#0	24.01	1.4	25.41	0.348	2.00	Pass
			RB1#7	23.79	1.4	25.19	0.330	2.00	Pass
			RB1#14	23.76	1.4	25.16	0.328	2.00	Pass
		16-QAM	RB8#0	22.83	1.4	24.23	0.265	2.00	Pass
			RB8#4	22.91	1.4	24.31	0.270	2.00	Pass
			RB8#7	22.69	1.4	24.09	0.256	2.00	Pass
			RB15#0	22.82	1.4	24.22	0.264	2.00	Pass
			RB1#0	23.86	1.4	25.26	0.336	2.00	Pass
			RB1#13	23.8	1.4	25.20	0.331	2.00	Pass
		QPSK CH	RB1#24	23.57	1.4	24.97	0.314	2.00	Pass
			RB12#0	23.99	1.4	25.39	0.346	2.00	Pass
			RB12#6	23.88	1.4	25.28	0.337	2.00	Pass
			RB12#13	23.72	1.4	25.12	0.325	2.00	Pass
	LCH		RB25#0	23.79	1.4	25.19	0.330	2.00	Pass
	LOIT		RB1#0	23.89	1.4	25.29	0.338	2.00	Pass
			RB1#13	23.79	1.4	25.19	0.330	2.00	Pass
			RB1#24	23.6	1.4	25.00	0.316	2.00	Pass
		16-QAM	RB12#0	23.11	1.4	24.51	0.282	2.00	Pass
			RB12#6	23.01	1.4	24.41	0.276	2.00	Pass
			RB12#13	22.87	1.4	24.27	0.267	2.00	Pass
5 MHz			RB25#0	22.92	1.4	24.32	0.270	2.00	Pass
			RB1#0	23.99	1.4	25.39	0.346	2.00	Pass
			RB1#13	23.95	1.4	25.35	0.343	2.00	Pass
			RB1#24	23.74	1.4	25.14	0.327	2.00	Pass
		QPSK	RB12#0	24.05	1.4	25.45	0.351	2.00	Pass
			RB12#6	24.08	1.4	25.48	0.353	2.00	Pass
			RB12#13	24.05	1.4	25.45	0.351	2.00	Pass
	MCH		RB25#0	24.1	1.4	25.50	0.355	2.00	Pass
			RB1#0	23.97	1.4	25.37	0.344	2.00	Pass
			RB1#13	24.01	1.4	25.41	0.348	2.00	Pass
			RB1#24	23.99	1.4	25.39	0.346	2.00	Pass
		16-QAM	RB12#0	22.96	1.4	24.36	0.273	2.00	Pass
			RB12#6	22.82	1.4	24.22	0.264	2.00	Pass
			RB12#13	22.81	1.4	24.21	0.264	2.00	Pass
			RB25#0	23.2	1.4	24.60	0.288	2.00	Pass



Test	Test	Test	Test RB	Conducted	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Output AV Power	Gain	(dBm)	(W)	(W)	Verdict
DVV	Charmer	IVIOGE	(Size#Oliset)	(dBm)	(dBi)	(ubiii)	((V)	(۷۷)	
				LTE BAND2					
			RB1#0	24.02	1.4	25.42	0.348	2.00	Pass
			RB1#13	23.92	1.4	25.32	0.340	2.00	Pass
			RB1#24	23.77	1.4	25.17	0.329	2.00	Pass
		QPSK	RB12#0	23.96	1.4	25.36	0.344	2.00	Pass
			RB12#6	23.86	1.4	25.26	0.336	2.00	Pass
			RB12#13	23.79	1.4	25.19	0.330	2.00	Pass
			RB25#0	23.83	1.4	25.23	0.333	2.00	Pass
	HCH		RB1#0	24.08	1.4	25.48	0.353	2.00	Pass
			RB1#13	23.54	1.4	24.94	0.312	2.00	Pass
			RB1#24	23.18	1.4	24.58	0.287	2.00	Pass
		16-QAM	RB12#0	22.86	1.4	24.26	0.267	2.00	Pass
			RB12#6	22.62	1.4	24.02	0.252	2.00	Pass
			RB12#13	22.58	1.4	23.98	0.250	2.00	Pass
			RB25#0	22.68	1.4	24.08	0.256	2.00	Pass
			RB1#0	23.95	1.4	25.35	0.343	2.00	Pass
			RB1#25	24.14	1.4	25.54	0.358	2.00	Pass
			RB1#49	23.76	1.4	25.16	0.328	2.00	Pass
		QPSK	RB25#0	23.89	1.4	25.29	0.338	2.00	Pass
			RB25#13	23.83	1.4	25.23	0.333	2.00	Pass
			RB25#25	23.73	1.4	25.13	0.326	2.00	Pass
	LCH		RB50#0	23.75	1.4	25.15	0.327	2.00	Pass
	LOIT		RB1#0	23.65	1.4	25.05	0.320	2.00	Pass
			RB1#25	23.86	1.4	25.26	0.336	2.00	Pass
			RB1#49	23.66	1.4	25.06	0.321	2.00	Pass
		16-QAM	RB25#0	22.87	1.4	24.27	0.267	2.00	Pass
10 MHz			RB25#13	22.85	1.4	24.25	0.266	2.00	Pass
10 101112			RB25#25	22.83	1.4	24.23	0.265	2.00	Pass
			RB50#0	22.74	1.4	24.14	0.259	2.00	Pass
			RB1#0	24.01	1.4	25.41	0.348	2.00	Pass
			RB1#25	24.36	1.4	25.76	0.377	2.00	Pass
			RB1#49	23.73	1.4	25.13	0.326	2.00	Pass
		QPSK	RB25#0	24.19	1.4	25.59	0.362	2.00	Pass
			RB25#13	24.23	1.4	25.63	0.366	2.00	Pass
	MCH		RB25#25	23.99	1.4	25.39	0.346	2.00	Pass
			RB50#0	24.13	1.4	25.53	0.357	2.00	Pass
			RB1#0	24.49	1.4	25.89	0.388	2.00	Pass
		16-QAM	RB1#25	23.96	1.4	25.36	0.344	2.00	Pass
			RB1#49	23.37	1.4	24.77	0.300	2.00	Pass
			RB25#0	23.13	1.4	24.53	0.284	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			l	TE BAND2					
			RB25#13	23.32	1.4	24.72	0.296	2.00	Pass
			RB25#25	23.17	1.4	24.57	0.286	2.00	Pass
			RB50#0	23.13	1.4	24.53	0.284	2.00	Pass
			RB1#0	23.93	1.4	25.33	0.341	2.00	Pass
			RB1#25	24.11	1.4	25.51	0.356	2.00	Pass
			RB1#49	23.89	1.4	25.29	0.338	2.00	Pass
		QPSK	RB25#0	24.07	1.4	25.47	0.352	2.00	Pass
			RB25#13	23.94	1.4	25.34	0.342	2.00	Pass
			RB25#25	23.91	1.4	25.31	0.340	2.00	Pass
	HCH		RB50#0	24.02	1.4	25.42	0.348	2.00	Pass
	ПСП		RB1#0	23.16	1.4	24.56	0.286	2.00	Pass
			RB1#25	24.04	1.4	25.44	0.350	2.00	Pass
			RB1#49	24.34	1.4	25.74	0.375	2.00	Pass
		16-QAM	RB25#0	22.88	1.4	24.28	0.268	2.00	Pass
			RB25#13	22.94	1.4	24.34	0.272	2.00	Pass
			RB25#25	22.66	1.4	24.06	0.255	2.00	Pass
			RB50#0	22.91	1.4	24.31	0.270	2.00	Pass
			RB1#0	24.02	1.4	25.42	0.348	2.00	Pass
			RB1#38	23.96	1.4	25.36	0.344	2.00	Pass
			RB1#74	23.95	1.4	25.35	0.343	2.00	Pass
		QPSK	RB36#0	23.78	1.4	25.18	0.330	2.00	Pass
			RB36#19	23.83	1.4	25.23	0.333	2.00	Pass
			RB36#39	23.69	1.4	25.09	0.323	2.00	Pass
	LCH		RB75#0	23.81	1.4	25.21	0.332	2.00	Pass
	LOIT		RB1#0	23.86	1.4	25.26	0.336	2.00	Pass
			RB1#38	23.83	1.4	25.23	0.333	2.00	Pass
			RB1#74	24.09	1.4	25.49	0.354	2.00	Pass
15 MHz		16-QAM	RB36#0	22.7	1.4	24.10	0.257	2.00	Pass
			RB36#19	22.72	1.4	24.12	0.258	2.00	Pass
			RB36#39	22.67	1.4	24.07	0.255	2.00	Pass
			RB75#0	22.81	1.4	24.21	0.264	2.00	Pass
			RB1#0	24.12	1.4	25.52	0.356	2.00	Pass
			RB1#38	24.04	1.4	25.44	0.350	2.00	Pass
			RB1#74	23.36	1.4	24.76	0.299	2.00	Pass
	MCH	QPSK	RB36#0	24.19	1.4	25.59	0.362	2.00	Pass
	IVIOII		RB36#19	24.17	1.4	25.57	0.361	2.00	Pass
			RB36#39	23.78	1.4	25.18	0.330	2.00	Pass
			RB75#0	24.06	1.4	25.46	0.352	2.00	Pass
		16-QAM	RB1#0	24.28	1.4	25.68	0.370	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND2					
			RB1#38	24.06	1.4	25.46	0.352	2.00	Pass
			RB1#74	23.33	1.4	24.73	0.297	2.00	Pass
			RB36#0	23.24	1.4	24.64	0.291	2.00	Pass
			RB36#19	23.23	1.4	24.63	0.290	2.00	Pass
			RB36#39	22.91	1.4	24.31	0.270	2.00	Pass
			RB75#0	23.03	1.4	24.43	0.277	2.00	Pass
			RB1#0	24	1.4	25.40	0.347	2.00	Pass
			RB1#38	23.83	1.4	25.23	0.333	2.00	Pass
			RB1#74	23.72	1.4	25.12	0.325	2.00	Pass
		QPSK	RB36#0	24	1.4	25.40	0.347	2.00	Pass
			RB36#19	23.84	1.4	25.24	0.334	2.00	Pass
			RB36#39	23.81	1.4	25.21	0.332	2.00	Pass
	HCH		RB75#0	23.88	1.4	25.28	0.337	2.00	Pass
	11011		RB1#0	24.06	1.4	25.46	0.352	2.00	Pass
			RB1#38	23.94	1.4	25.34	0.342	2.00	Pass
			RB1#74	24.45	1.4	25.85	0.385	2.00	Pass
		16-QAM	RB36#0	22.86	1.4	24.26	0.267	2.00	Pass
			RB36#19	22.77	1.4	24.17	0.261	2.00	Pass
			RB36#39	22.74	1.4	24.14	0.259	2.00	Pass
			RB75#0	22.86	1.4	24.26	0.267	2.00	Pass
			RB1#0	23.85	1.4	25.25	0.335	2.00	Pass
			RB1#50	23.88	1.4	25.28	0.337	2.00	Pass
			RB1#99	23.9	1.4	25.30	0.339	2.00	Pass
		QPSK	RB50#0	23.82	1.4	25.22	0.333	2.00	Pass
			RB50#25	23.91	1.4	25.31	0.340	2.00	Pass
			RB50#50	23.97	1.4	25.37	0.344	2.00	Pass
	LCH		RB100#0	23.84	1.4	25.24	0.334	2.00	Pass
	LOIT		RB1#0	23.99	1.4	25.39	0.346	2.00	Pass
20 MHz			RB1#50	24.13	1.4	25.53	0.357	2.00	Pass
20 1011 12			RB1#99	23.88	1.4	25.28	0.337	2.00	Pass
		16-QAM	RB50#0	22.83	1.4	24.23	0.265	2.00	Pass
			RB50#25	22.95	1.4	24.35	0.272	2.00	Pass
			RB50#50	22.91	1.4	24.31	0.270	2.00	Pass
			RB100#0	22.86	1.4	24.26	0.267	2.00	Pass
			RB1#0	24.24	1.4	25.64	0.366	2.00	Pass
			RB1#50	24.38	1.4	25.78	0.378	2.00	Pass
	MCH	MCH QPSK	RB1#99	23.77	1.4	25.17	0.329	2.00	Pass
			RB50#0	24.22	1.4	25.62	0.365	2.00	Pass
			RB50#25	24.17	1.4	25.57	0.361	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND2					
			RB50#50	23.72	1.4	25.12	0.325	2.00	Pass
			RB100#0	24.07	1.4	25.47	0.352	2.00	Pass
			RB1#0	24.2	1.4	25.60	0.363	2.00	Pass
			RB1#50	24.25	1.4	25.65	0.367	2.00	Pass
			RB1#99	23.2	1.4	24.60	0.288	2.00	Pass
		16-QAM	RB50#0	23.21	1.4	24.61	0.289	2.00	Pass
			RB50#25	23.11	1.4	24.51	0.282	2.00	Pass
			RB50#50	22.6	1.4	24.00	0.251	2.00	Pass
			RB100#0	23	1.4	24.40	0.275	2.00	Pass
			RB1#0	23.79	1.4	25.19	0.330	2.00	Pass
			RB1#50	24.33	1.4	25.73	0.374	2.00	Pass
			RB1#99	23.59	1.4	24.99	0.316	2.00	Pass
		QPSK	RB50#0	23.84	1.4	25.24	0.334	2.00	Pass
			RB50#25	23.9	1.4	25.30	0.339	2.00	Pass
			RB50#50	23.93	1.4	25.33	0.341	2.00	Pass
	HCH		RB100#0	23.86	1.4	25.26	0.336	2.00	Pass
	пСп		RB1#0	23.59	1.4	24.99	0.316	2.00	Pass
			RB1#50	23.97	1.4	25.37	0.344	2.00	Pass
	16-QAM	RB1#99	23.34	1.4	24.74	0.298	2.00	Pass	
		RB50#0	22.85	1.4	24.25	0.266	2.00	Pass	
		RB50#25	22.78	1.4	24.18	0.262	2.00	Pass	
			RB50#50	22.85	1.4	24.25	0.266	2.00	Pass
			RB100#0	22.95	1.4	24.35	0.272	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND4					
			RB1#0	25.36	1.4	26.76	0.474	1.00	Pass
			RB1#3	24.99	1.4	26.39	0.436	1.00	Pass
			RB1#5	25.51	1.4	26.91	0.491	1.00	Pass
		QPSK	RB3#0	24.95	1.4	26.35	0.432	1.00	Pass
			RB3#2	25.04	1.4	26.44	0.441	1.00	Pass
			RB3#3	24.94	1.4	26.34	0.431	1.00	Pass
	LCH		RB6#0	24.89	1.4	26.29	0.426	1.00	Pass
	LOIT		RB1#0	25.1	1.4	26.50	0.447	1.00	Pass
			RB1#3	24.87	1.4	26.27	0.424	1.00	Pass
			RB1#5	24.84	1.4	26.24	0.421	1.00	Pass
		16-QAM	RB3#0	25.09	1.4	26.49	0.446	1.00	Pass
			RB3#2	25.06	1.4	26.46	0.443	1.00	Pass
			RB3#3	25.2	1.4	26.60	0.457	1.00	Pass
			RB6#0	24.08	1.4	25.48	0.353	1.00	Pass
			RB1#0	24.78	1.4	26.18	0.415	1.00	Pass
			RB1#3	24.65	1.4	26.05	0.403	1.00	Pass
			RB1#5	24.6	1.4	26.00	0.398	1.00	Pass
		QPSK	RB3#0	24.7	1.4	26.10	0.407	1.00	Pass
1.4 MHz			RB3#2	24.76	1.4	26.16	0.413	1.00	Pass
			RB3#3	24.62	1.4	26.02	0.400	1.00	Pass
	MCH		RB6#0	24.71	1.4	26.11	0.408	1.00	Pass
	IVICIT		RB1#0	25.42	1.4	26.82	0.481	1.00	Pass
			RB1#3	25.36	1.4	26.76	0.474	1.00	Pass
			RB1#5	25.35	1.4	26.75	0.473	1.00	Pass
		16-QAM	RB3#0	24.91	1.4	26.31	0.428	1.00	Pass
			RB3#2	24.88	1.4	26.28	0.425	1.00	Pass
			RB3#3	24.51	1.4	25.91	0.390	1.00	Pass
			RB6#0	23.39	1.4	24.79	0.301	1.00	Pass
			RB1#0	24.57	1.4	25.97	0.395	1.00	Pass
			RB1#3	24.84	1.4	26.24	0.421	1.00	Pass
			RB1#5	24.76	1.4	26.16	0.413	1.00	Pass
		QPSK	RB3#0	24.78	1.4	26.18	0.415	1.00	Pass
	HCH		RB3#2	24.8	1.4	26.20	0.417	1.00	Pass
	11011		RB3#3	24.75	1.4	26.15	0.412	1.00	Pass
			RB6#0	24.76	1.4	26.16	0.413	1.00	Pass
			RB1#0	24.85	1.4	26.25	0.422	1.00	Pass
		16-QAM	RB1#3	24.92	1.4	26.32	0.429	1.00	Pass
			RB1#5	24.75	1.4	26.15	0.412	1.00	Pass



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
			(-12-11-511-54)	(dBm)	(dBi)	(==::,	(**)	(**)	
				TE BAND4					
			RB3#0	24.9	1.4	26.30	0.427	1.00	Pass
			RB3#2	24.98	1.4	26.38	0.435	1.00	Pass
			RB3#3	24.86	1.4	26.26	0.423	1.00	Pass
			RB6#0	23.86	1.4	25.26	0.336	1.00	Pass
			RB1#0	25.45	1.4	26.85	0.484	1.00	Pass
			RB1#7	24.92	1.4	26.32	0.429	1.00	Pass
			RB1#14	24.82	1.4	26.22	0.419	1.00	Pass
		QPSK	RB8#0	24.94	1.4	26.34	0.431	1.00	Pass
			RB8#4	24.99	1.4	26.39	0.436	1.00	Pass
			RB8#7	24.94	1.4	26.34	0.431	1.00	Pass
	LCH		RB15#0	24.93	1.4	26.33	0.430	1.00	Pass
	LCH		RB1#0	24.98	1.4	26.38	0.435	1.00	Pass
		16-QAM	RB1#7	24.79	1.4	26.19	0.416	1.00	Pass
			RB1#14	24.74	1.4	26.14	0.411	1.00	Pass
			RB8#0	23.86	1.4	25.26	0.336	1.00	Pass
			RB8#4	23.82	1.4	25.22	0.333	1.00	Pass
			RB8#7	24.04	1.4	25.44	0.350	1.00	Pass
			RB15#0	23.89	1.4	25.29	0.338	1.00	Pass
			RB1#0	24.74	1.4	26.14	0.411	1.00	Pass
			RB1#7	24.71	1.4	26.11	0.408	1.00	Pass
3 MHz			RB1#14	24.69	1.4	26.09	0.406	1.00	Pass
3 1011 12		QPSK	RB8#0	24.8	1.4	26.20	0.417	1.00	Pass
			RB8#4	24.85	1.4	26.25	0.422	1.00	Pass
			RB8#7	24.75	1.4	26.15	0.412	1.00	Pass
	MCH		RB15#0	24.8	1.4	26.20	0.417	1.00	Pass
			RB1#0	25.2	1.4	26.60	0.457	1.00	Pass
			RB1#7	24.88	1.4	26.28	0.425	1.00	Pass
			RB1#14	25	1.4	26.40	0.437	1.00	Pass
		16-QAM	RB8#0	23.79	1.4	25.19	0.330	1.00	Pass
			RB8#4	23.76	1.4	25.16	0.328	1.00	Pass
			RB8#7	23.86	1.4	25.26	0.336	1.00	Pass
			RB15#0	23.83	1.4	25.23	0.333	1.00	Pass
			RB1#0	24.63	1.4	26.03	0.401	1.00	Pass
			RB1#7	24.93	1.4	26.33	0.430	1.00	Pass
			RB1#14	24.94	1.4	26.34	0.431	1.00	Pass
	HCH	QPSK	RB8#0	24.69	1.4	26.09	0.406	1.00	Pass
			RB8#4	24.68	1.4	26.08	0.406	1.00	Pass
			RB8#7	24.6	1.4	26.00	0.398	1.00	Pass
			RB15#0	24.69	1.4	26.09	0.406	1.00	Pass



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
			,	(dBm)	(dBi)	,		,	
			ı	TE BAND4					
			RB1#0	24.8	1.4	26.20	0.417	1.00	Pass
			RB1#7	24.66	1.4	26.06	0.404	1.00	Pass
			RB1#14	24.67	1.4	26.07	0.405	1.00	Pass
		16-QAM	RB8#0	23.26	1.4	24.66	0.292	1.00	Pass
			RB8#4	23.84	1.4	25.24	0.334	1.00	Pass
			RB8#7	23.85	1.4	25.25	0.335	1.00	Pass
			RB15#0	23.75	1.4	25.15	0.327	1.00	Pass
			RB1#0	24.94	1.4	26.34	0.431	1.00	Pass
			RB1#13	24.99	1.4	26.39	0.436	1.00	Pass
			RB1#24	24.96	1.4	26.36	0.433	1.00	Pass
		QPSK	RB12#0	25.02	1.4	26.42	0.439	1.00	Pass
			RB12#6	24.9	1.4	26.30	0.427	1.00	Pass
			RB12#13	24.93	1.4	26.33	0.430	1.00	Pass
	LCH		RB25#0	24.98	1.4	26.38	0.435	1.00	Pass
	LOIT		RB1#0	24.72	1.4	26.12	0.409	1.00	Pass
			RB1#13	24.43	1.4	25.83	0.383	1.00	Pass
			RB1#24	24.66	1.4	26.06	0.404	1.00	Pass
		16-QAM	RB12#0	23.99	1.4	25.39	0.346	1.00	Pass
			RB12#6	23.81	1.4	25.21	0.332	1.00	Pass
			RB12#13	23.96	1.4	25.36	0.344	1.00	Pass
			RB25#0	23.9	1.4	25.30	0.339	1.00	Pass
			RB1#0	24.71	1.4	26.11	0.408	1.00	Pass
5 MHz			RB1#13	24.79	1.4	26.19	0.416	1.00	Pass
			RB1#24	24.62	1.4	26.02	0.400	1.00	Pass
		QPSK	RB12#0	24.74	1.4	26.14	0.411	1.00	Pass
			RB12#6	24.72	1.4	26.12	0.409	1.00	Pass
			RB12#13	24.65	1.4	26.05	0.403	1.00	Pass
	MCH		RB25#0	24.64	1.4	26.04	0.402	1.00	Pass
			RB1#0	24.83	1.4	26.23	0.420	1.00	Pass
			RB1#13	24.64	1.4	26.04	0.402	1.00	Pass
			RB1#24	24.56	1.4	25.96	0.394	1.00	Pass
		16-QAM	RB12#0	23.82	1.4	25.22	0.333	1.00	Pass
			RB12#6	23.83	1.4	25.23	0.333	1.00	Pass
			RB12#13	23.75	1.4	25.15	0.327	1.00	Pass
			RB25#0	23.81	1.4	25.21	0.332	1.00	Pass
			RB1#0	24.76	1.4	26.16	0.413	1.00	Pass
	НСН	QPSK	RB1#13	24.82	1.4	26.22	0.419	1.00	Pass
		,	RB1#24	24.82	1.4	26.22	0.419	1.00	Pass
			RB12#0	24.93	1.4	26.33	0.430	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND4					
			RB12#6	24.82	1.4	26.22	0.419	1.00	Pass
			RB12#13	24.81	1.4	26.21	0.418	1.00	Pass
			RB25#0	24.83	1.4	26.23	0.420	1.00	Pass
			RB1#0	24.49	1.4	25.89	0.388	1.00	Pass
			RB1#13	24.94	1.4	26.34	0.431	1.00	Pass
			RB1#24	24.87	1.4	26.27	0.424	1.00	Pass
		16-QAM	RB12#0	23.74	1.4	25.14	0.327	1.00	Pass
			RB12#6	23.73	1.4	25.13	0.326	1.00	Pass
			RB12#13	23.77	1.4	25.17	0.329	1.00	Pass
			RB25#0	23.82	1.4	25.22	0.333	1.00	Pass
			RB1#0	24.95	1.4	26.35	0.432	1.00	Pass
			RB1#25	24.95	1.4	26.35	0.432	1.00	Pass
			RB1#49	24.64	1.4	26.04	0.402	1.00	Pass
		QPSK	RB25#0	24.95	1.4	26.35	0.432	1.00	Pass
			RB25#13	24.86	1.4	26.26	0.423	1.00	Pass
			RB25#25	24.79	1.4	26.19	0.416	1.00	Pass
	LCH		RB50#0	24.9	1.4	26.30	0.427	1.00	Pass
	LOIT		RB1#0	25.21	1.4	26.61	0.458	1.00	Pass
			RB1#25	25.27	1.4	26.67	0.465	1.00	Pass
			RB1#49	24.46	1.4	25.86	0.385	1.00	Pass
		16-QAM	RB25#0	23.82	1.4	25.22	0.333	1.00	Pass
			RB25#13	23.92	1.4	25.32	0.340	1.00	Pass
			RB25#25	23.75	1.4	25.15	0.327	1.00	Pass
10 MHz			RB50#0	23.76	1.4	25.16	0.328	1.00	Pass
10 101112			RB1#0	24.74	1.4	26.14	0.411	1.00	Pass
			RB1#25	24.84	1.4	26.24	0.421	1.00	Pass
			RB1#49	24.39	1.4	25.79	0.379	1.00	Pass
		QPSK	RB25#0	24.77	1.4	26.17	0.414	1.00	Pass
			RB25#13	24.78	1.4	26.18	0.415	1.00	Pass
			RB25#25	24.58	1.4	25.98	0.396	1.00	Pass
	MCH		RB50#0	24.55	1.4	25.95	0.394	1.00	Pass
	I WIGHT		RB1#0	24.57	1.4	25.97	0.395	1.00	Pass
			RB1#25	25.14	1.4	26.54	0.451	1.00	Pass
			RB1#49	24.23	1.4	25.63	0.366	1.00	Pass
		16-QAM	RB25#0	23.72	1.4	25.12	0.325	1.00	Pass
			RB25#13	23.77	1.4	25.17	0.329	1.00	Pass
			RB25#25	23.66	1.4	25.06	0.321	1.00	Pass
			RB50#0	23.65	1.4	25.05	0.320	1.00	Pass
	HCH	QPSK	RB1#0	24.64	1.4	26.04	0.402	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND4					
			RB1#25	24.6	1.4	26.00	0.398	1.00	Pass
			RB1#49	25.04	1.4	26.44	0.441	1.00	Pass
			RB25#0	24.7	1.4	26.10	0.407	1.00	Pass
			RB25#13	24.74	1.4	26.14	0.411	1.00	Pass
			RB25#25	24.61	1.4	26.01	0.399	1.00	Pass
			RB50#0	24.68	1.4	26.08	0.406	1.00	Pass
			RB1#0	24.69	1.4	26.09	0.406	1.00	Pass
			RB1#25	24.65	1.4	26.05	0.403	1.00	Pass
			RB1#49	24.7	1.4	26.10	0.407	1.00	Pass
		16-QAM	RB25#0	23.86	1.4	25.26	0.336	1.00	Pass
			RB25#13	23.68	1.4	25.08	0.322	1.00	Pass
			RB25#25	23.74	1.4	25.14	0.327	1.00	Pass
			RB50#0	23.71	1.4	25.11	0.324	1.00	Pass
			RB1#0	25.02	1.4	26.42	0.439	1.00	Pass
			RB1#38	24.82	1.4	26.22	0.419	1.00	Pass
			RB1#74	24.73	1.4	26.13	0.410	1.00	Pass
		QPSK	RB36#0	24.98	1.4	26.38	0.435	1.00	Pass
			RB36#19	24.8	1.4	26.20	0.417	1.00	Pass
		СН	RB36#39	24.61	1.4	26.01	0.399	1.00	Pass
	LCH		RB75#0	24.6	1.4	26.00	0.398	1.00	Pass
	LOIT		RB1#0	24.97	1.4	26.37	0.434	1.00	Pass
			RB1#38	24.8	1.4	26.20	0.417	1.00	Pass
			RB1#74	25.03	1.4	26.43	0.440	1.00	Pass
		16-QAM	RB36#0	23.91	1.4	25.31	0.340	1.00	Pass
			RB36#19	23.86	1.4	25.26	0.336	1.00	Pass
15 MHz			RB36#39	23.53	1.4	24.93	0.311	1.00	Pass
			RB75#0	23.65	1.4	25.05	0.320	1.00	Pass
			RB1#0	24.86	1.4	26.26	0.423	1.00	Pass
			RB1#38	24.71	1.4	26.11	0.408	1.00	Pass
			RB1#74	24.29	1.4	25.69	0.371	1.00	Pass
		QPSK	RB36#0	24.57	1.4	25.97	0.395	1.00	Pass
			RB36#19	24.74	1.4	26.14	0.411	1.00	Pass
	MCH		RB36#39	24.55	1.4	25.95	0.394	1.00	Pass
			RB75#0	24.5	1.4	25.90	0.389	1.00	Pass
			RB1#0	25.03	1.4	26.43	0.440	1.00	Pass
			RB1#38	25.04	1.4	26.44	0.441	1.00	Pass
		16-QAM	RB1#74	24.55	1.4	25.95	0.394	1.00	Pass
		. 5 50 1101	RB36#0	23.58	1.4	24.98	0.315	1.00	Pass
			RB36#19	23.78	1.4	25.18	0.330	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			I	TE BAND4					
			RB36#39	23.68	1.4	25.08	0.322	1.00	Pass
			RB75#0	23.62	1.4	25.02	0.318	1.00	Pass
			RB1#0	24.58	1.4	25.98	0.396	1.00	Pass
			RB1#38	24.46	1.4	25.86	0.385	1.00	Pass
			RB1#74	24.58	1.4	25.98	0.396	1.00	Pass
		QPSK	RB36#0	24.75	1.4	26.15	0.412	1.00	Pass
			RB36#19	24.75	1.4	26.15	0.412	1.00	Pass
			RB36#39	24.56	1.4	25.96	0.394	1.00	Pass
	HCH		RB75#0	24.64	1.4	26.04	0.402	1.00	Pass
	псп		RB1#0	25.09	1.4	26.49	0.446	1.00	Pass
			RB1#38	25.33	1.4	26.73	0.471	1.00	Pass
			RB1#74	24.75	1.4	26.15	0.412	1.00	Pass
		16-QAM	RB36#0	23.81	1.4	25.21	0.332	1.00	Pass
			RB36#19	23.73	1.4	25.13	0.326	1.00	Pass
			RB36#39	23.48	1.4	24.88	0.308	1.00	Pass
			RB75#0	23.67	1.4	25.07	0.321	1.00	Pass
			RB1#0	25.17	1.4	26.57	0.454	1.00	Pass
		QPSK	RB1#50	24.94	1.4	26.34	0.431	1.00	Pass
			RB1#99	24.67	1.4	26.07	0.405	1.00	Pass
			RB50#0	24.8	1.4	26.20	0.417	1.00	Pass
			RB50#25	24.73	1.4	26.13	0.410	1.00	Pass
			RB50#50	24.72	1.4	26.12	0.409	1.00	Pass
	LCH		RB100#0	24.75	1.4	26.15	0.412	1.00	Pass
	LOIT		RB1#0	24.63	1.4	26.03	0.401	1.00	Pass
			RB1#50	24.87	1.4	26.27	0.424	1.00	Pass
			RB1#99	24.4	1.4	25.80	0.380	1.00	Pass
20 MHz		16-QAM	RB50#0	23.9	1.4	25.30	0.339	1.00	Pass
20 1011 12			RB50#25	23.73	1.4	25.13	0.326	1.00	Pass
			RB50#50	23.8	1.4	25.20	0.331	1.00	Pass
			RB100#0	23.79	1.4	25.19	0.330	1.00	Pass
			RB1#0	24.82	1.4	26.22	0.419	1.00	Pass
			RB1#50	24.71	1.4	26.11	0.408	1.00	Pass
			RB1#99	24.55	1.4	25.95	0.394	1.00	Pass
		QPSK	RB50#0	24.53	1.4	25.93	0.392	1.00	Pass
	MCH		RB50#25	24.75	1.4	26.15	0.412	1.00	Pass
			RB50#50	24.47	1.4	25.87	0.386	1.00	Pass
			RB100#0	24.57	1.4	25.97	0.395	1.00	Pass
		16-QAM	RB1#0	24.84	1.4	26.24	0.421	1.00	Pass
		IO-QAIVI	RB1#50	25.19	1.4	26.59	0.456	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND4					
			RB1#99	24.21	1.4	25.61	0.364	1.00	Pass
			RB50#0	23.51	1.4	24.91	0.310	1.00	Pass
			RB50#25	23.85	1.4	25.25	0.335	1.00	Pass
			RB50#50	23.66	1.4	25.06	0.321	1.00	Pass
			RB100#0	23.66	1.4	25.06	0.321	1.00	Pass
			RB1#0	24.71	1.4	26.11	0.408	1.00	Pass
			RB1#50	24.84	1.4	26.24	0.421	1.00	Pass
			RB1#99	24.47	1.4	25.87	0.386	1.00	Pass
		QPSK	RB50#0	24.76	1.4	26.16	0.413	1.00	Pass
			RB50#25	24.76	1.4	26.16	0.413	1.00	Pass
			RB50#50	24.56	1.4	25.96	0.394	1.00	Pass
	HCH		RB100#0	24.6	1.4	26.00	0.398	1.00	Pass
	псп		RB1#0	24.47	1.4	25.87	0.386	1.00	Pass
			RB1#50	25.33	1.4	26.73	0.471	1.00	Pass
			RB1#99	24.33	1.4	25.73	0.374	1.00	Pass
		16-QAM	RB50#0	23.71	1.4	25.11	0.324	1.00	Pass
			RB50#25	23.73	1.4	25.13	0.326	1.00	Pass
			RB50#50	23.64	1.4	25.04	0.319	1.00	Pass
			RB100#0	23.71	1.4	25.11	0.324	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offs et)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm	ERP (W)	Limit (W)	Verdict
				LTE BA	ND5					
			RB1#0	24.39	1.4	-0.75	23.64	0.231	7.00	Pass
			RB1#3	24.51	1.4	-0.75	23.76	0.238	7.00	Pass
			RB1#5	24.18	1.4	-0.75	23.43	0.220	7.00	Pass
		QPSK	RB3#0	24.2	1.4	-0.75	23.45	0.221	7.00	Pass
			RB3#2	24.29	1.4	-0.75	23.54	0.226	7.00	Pass
			RB3#3	24.28	1.4	-0.75	23.53	0.225	7.00	Pass
	LCH		RB6#0	23.13	1.4	-0.75	22.38	0.173	7.00	Pass
	LON		RB1#0	23.29	1.4	-0.75	22.54	0.179	7.00	Pass
			RB1#3	23.22	1.4	-0.75	22.47	0.177	7.00	Pass
		16-	RB1#5	23.14	1.4	-0.75	22.39	0.173	7.00	Pass
		QAM	RB3#0	23.23	1.4	-0.75	22.48	0.177	7.00	Pass
		QAIVI	RB3#2	23.16	1.4	-0.75	22.41	0.174	7.00	Pass
			RB3#3	23.17	1.4	-0.75	22.42	0.175	7.00	Pass
			RB6#0	22.26	1.4	-0.75	21.51	0.142	7.00	Pass
			RB1#0	23.95	1.4	-0.75	23.20	0.209	7.00	Pass
			RB1#3	24.33	1.4	-0.75	23.58	0.228	7.00	Pass
			RB1#5	24.16	1.4	-0.75	23.41	0.219	7.00	Pass
1.4		QPSK	RB3#0	24.21	1.4	-0.75	23.46	0.222	7.00	Pass
MHz			RB3#2	24.33	1.4	-0.75	23.58	0.228	7.00	Pass
IVIITZ			RB3#3	24.23	1.4	-0.75	23.48	0.223	7.00	Pass
	MCH		RB6#0	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
	IVICIT		RB1#0	23.51	1.4	-0.75	22.76	0.189	7.00	Pass
			RB1#3	23.6	1.4	-0.75	22.85	0.193	7.00	Pass
		16-	RB1#5	22.73	1.4	-0.75	21.98	0.158	7.00	Pass
		QAM	RB3#0	23.02	1.4	-0.75	22.27	0.169	7.00	Pass
		QAIVI	RB3#2	22.97	1.4	-0.75	22.22	0.167	7.00	Pass
			RB3#3	22.95	1.4	-0.75	22.20	0.166	7.00	Pass
			RB6#0	21.99	1.4	-0.75	21.24	0.133	7.00	Pass
			RB1#0	24.32	1.4	-0.75	23.57	0.228	7.00	Pass
			RB1#3	24.21	1.4	-0.75	23.46	0.222	7.00	Pass
			RB1#5	24.15	1.4	-0.75	23.40	0.219	7.00	Pass
		QPSK	RB3#0	24.22	1.4	-0.75	23.47	0.222	7.00	Pass
	HCH		RB3#2	24.26	1.4	-0.75	23.51	0.224	7.00	Pass
	11011		RB3#3	24.23	1.4	-0.75	23.48	0.223	7.00	Pass
			RB6#0	23.1	1.4	-0.75	22.35	0.172	7.00	Pass
		16-	RB1#0	23.07	1.4	-0.75	22.32	0.171	7.00	Pass
		QAM	RB1#3	23.15	1.4	-0.75	22.40	0.174	7.00	Pass
		S/ 11V1	RB1#5	23.17	1.4	-0.75	22.42	0.175	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offs et)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm	ERP (W)	Limit (W)	Verdict
				LTE BA	ND5					
			RB3#0	23.45	1.4	-0.75	22.70	0.186	7.00	Pass
			RB3#2	23.46	1.4	-0.75	22.71	0.187	7.00	Pass
			RB3#3	23.3	1.4	-0.75	22.55	0.180	7.00	Pass
			RB6#0	22.03	1.4	-0.75	21.28	0.134	7.00	Pass
			RB1#0	24.41	1.4	-0.75	23.66	0.232	7.00	Pass
			RB1#7	24.42	1.4	-0.75	23.67	0.233	7.00	Pass
			RB1#14	24.24	1.4	-0.75	23.49	0.223	7.00	Pass
		QPSK	RB8#0	23.22	1.4	-0.75	22.47	0.177	7.00	Pass
			RB8#4	23.38	1.4	-0.75	22.63	0.183	7.00	Pass
			RB8#7	23.33	1.4	-0.75	22.58	0.181	7.00	Pass
			RB15#0	23.32	1.4	-0.75	22.57	0.181	7.00	Pass
	LCH		RB1#0	23.56	1.4	-0.75	22.81	0.191	7.00	Pass
		16- QAM	RB1#7	23.52	1.4	-0.75	22.77	0.189	7.00	Pass
			RB1#14	23.29	1.4	-0.75	22.54	0.179	7.00	Pass
			RB8#0	22.41	1.4	-0.75	21.66	0.147	7.00	Pass
			RB8#4	22.49	1.4	-0.75	21.74	0.149	7.00	Pass
			RB8#7	22.36	1.4	-0.75	21.61	0.145	7.00	Pass
			RB15#0	22.22	1.4	-0.75	21.47	0.140	7.00	Pass
			RB1#0	24.25	1.4	-0.75	23.50	0.224	7.00	Pass
			RB1#7	24.16	1.4	-0.75	23.41	0.219	7.00	Pass
2 MI I=			RB1#14	24	1.4	-0.75	23.25	0.211	7.00	Pass
3 MHz		QPSK	RB8#0	23.29	1.4	-0.75	22.54	0.179	7.00	Pass
			RB8#4	23.25	1.4	-0.75	22.50	0.178	7.00	Pass
			RB8#7	23.19	1.4	-0.75	22.44	0.175	7.00	Pass
	MCH		RB15#0	23.25	1.4	-0.75	22.50	0.178	7.00	Pass
	MCH		RB1#0	22.85	1.4	-0.75	22.10	0.162	7.00	Pass
			RB1#7	22.75	1.4	-0.75	22.00	0.158	7.00	Pass
		16-	RB1#14	22.77	1.4	-0.75	22.02	0.159	7.00	Pass
		QAM	RB8#0	22.07	1.4	-0.75	21.32	0.136	7.00	Pass
		QAIVI	RB8#4	22.13	1.4	-0.75	21.38	0.137	7.00	Pass
			RB8#7	22.11	1.4	-0.75	21.36	0.137	7.00	Pass
			RB15#0	22.08	1.4	-0.75	21.33	0.136	7.00	Pass
			RB1#0	24.35	1.4	-0.75	23.60	0.229	7.00	Pass
			RB1#7	24.27	1.4	-0.75	23.52	0.225	7.00	Pass
			RB1#14	24.32	1.4	-0.75	23.57	0.228	7.00	Pass
	HCH	QPSK	RB8#0	23.14	1.4	-0.75	22.39	0.173	7.00	Pass
			RB8#4	23.12	1.4	-0.75	22.37	0.173	7.00	Pass
			RB8#7	23.03	1.4	-0.75	22.28	0.169	7.00	Pass
			RB15#0	23.07	1.4	-0.75	22.32	0.171	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offs et)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm	ERP (W)	Limit (W)	Verdict
				LTE BA	ND5					
			RB1#0	23.05	1.4	-0.75	22.30	0.170	7.00	Pass
			RB1#7	22.97	1.4	-0.75	22.22	0.167	7.00	Pass
		4.0	RB1#14	23.06	1.4	-0.75	22.31	0.170	7.00	Pass
		16- QAM	RB8#0	22.09	1.4	-0.75	21.34	0.136	7.00	Pass
		QAM	RB8#4	22.01	1.4	-0.75	21.26	0.134	7.00	Pass
			RB8#7	22.03	1.4	-0.75	21.28	0.134	7.00	Pass
			RB15#0	22.05	1.4	-0.75	21.30	0.135	7.00	Pass
			RB1#0	24.45	1.4	-0.75	23.70	0.234	7.00	Pass
			RB1#13	24.34	1.4	-0.75	23.59	0.229	7.00	Pass
			RB1#24	24.18	1.4	-0.75	23.43	0.220	7.00	Pass
		QPSK	RB12#0	23.22	1.4	-0.75	22.47	0.177	7.00	Pass
			RB12#6	23.29	1.4	-0.75	22.54	0.179	7.00	Pass
			RB12#13	23.23	1.4	-0.75	22.48	0.177	7.00	Pass
	LCH		RB25#0	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
	LCH		RB1#0	22.92	1.4	-0.75	22.17	0.165	7.00	Pass
			RB1#13	22.87	1.4	-0.75	22.12	0.163	7.00	Pass
		16-	RB1#24	22.7	1.4	-0.75	21.95	0.157	7.00	Pass
		QAM	RB12#0	22.24	1.4	-0.75	21.49	0.141	7.00	Pass
		QAIVI	RB12#6	22.39	1.4	-0.75	21.64	0.146	7.00	Pass
			RB12#13	22.31	1.4	-0.75	21.56	0.143	7.00	Pass
			RB25#0	22.45	1.4	-0.75	21.70	0.148	7.00	Pass
			RB1#0	24.03	1.4	-0.75	23.28	0.213	7.00	Pass
5 MHz			RB1#13	24.14	1.4	-0.75	23.39	0.218	7.00	Pass
			RB1#24	24.01	1.4	-0.75	23.26	0.212	7.00	Pass
		QPSK	RB12#0	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
			RB12#6	23.17	1.4	-0.75	22.42	0.175	7.00	Pass
			RB12#13	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
	MCH		RB25#0	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
	WICH		RB1#0	23.02	1.4	-0.75	22.27	0.169	7.00	Pass
			RB1#13	23.05	1.4	-0.75	22.30	0.170	7.00	Pass
		16-	RB1#24	22.78	1.4	-0.75	22.03	0.160	7.00	Pass
		QAM	RB12#0	22.1	1.4	-0.75	21.35	0.136	7.00	Pass
		S/ tivi	RB12#6	22.09	1.4	-0.75	21.34	0.136	7.00	Pass
			RB12#13	22.16	1.4	-0.75	21.41	0.138	7.00	Pass
			RB25#0	22.35	1.4	-0.75	21.60	0.145	7.00	Pass
			RB1#0	24.02	1.4	-0.75	23.27	0.212	7.00	Pass
	HCH	QPSK	RB1#13	24.33	1.4	-0.75	23.58	0.228	7.00	Pass
	11011	QI OIX	RB1#24	24.09	1.4	-0.75	23.34	0.216	7.00	Pass
			RB12#0	23.09	1.4	-0.75	22.34	0.171	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offs et)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm	ERP (W)	Limit (W)	Verdict
				LTE BA	ND5					
			RB12#6	23.23	1.4	-0.75	22.48	0.177	7.00	Pass
			RB12#13	23.05	1.4	-0.75	22.30	0.170	7.00	Pass
			RB25#0	23.2	1.4	-0.75	22.45	0.176	7.00	Pass
			RB1#0	23.16	1.4	-0.75	22.41	0.174	7.00	Pass
			RB1#13	22.9	1.4	-0.75	22.15	0.164	7.00	Pass
		40	RB1#24	22.52	1.4	-0.75	21.77	0.150	7.00	Pass
		16-	RB12#0	22.07	1.4	-0.75	21.32	0.136	7.00	Pass
		QAM	RB12#6	22.27	1.4	-0.75	21.52	0.142	7.00	Pass
			RB12#13	22.14	1.4	-0.75	21.39	0.138	7.00	Pass
			RB25#0	22.13	1.4	-0.75	21.38	0.137	7.00	Pass
			RB1#0	24.5	1.4	-0.75	23.75	0.237	7.00	Pass
			RB1#25	24.33	1.4	-0.75	23.58	0.228	7.00	Pass
			RB1#49	24.12	1.4	-0.75	23.37	0.217	7.00	Pass
	QPS	QPSK	RB25#0	23.27	1.4	-0.75	22.52	0.179	7.00	Pass
			RB25#13	23.23	1.4	-0.75	22.48	0.177	7.00	Pass
			RB25#25	23.18	1.4	-0.75	22.43	0.175	7.00	Pass
	LCH		RB50#0	23.3	1.4	-0.75	22.55	0.180	7.00	Pass
	LON		RB1#0	23.52	1.4	-0.75	22.77	0.189	7.00	Pass
			RB1#25	23.74	1.4	-0.75	22.99	0.199	7.00	Pass
		16-	RB1#49	23.33	1.4	-0.75	22.58	0.181	7.00	Pass
		QAM	RB25#0	22.29	1.4	-0.75	21.54	0.143	7.00	Pass
		QAIVI	RB25#13	22.22	1.4	-0.75	21.47	0.140	7.00	Pass
			RB25#25	22.08	1.4	-0.75	21.33	0.136	7.00	Pass
10			RB50#0	22.28	1.4	-0.75	21.53	0.142	7.00	Pass
MHz			RB1#0	24.11	1.4	-0.75	23.36	0.217	7.00	Pass
			RB1#25	24.39	1.4	-0.75	23.64	0.231	7.00	Pass
			RB1#49	24.26	1.4	-0.75	23.51	0.224	7.00	Pass
		QPSK	RB25#0	23.3	1.4	-0.75	22.55	0.180	7.00	Pass
			RB25#13	23.19	1.4	-0.75	22.44	0.175	7.00	Pass
			RB25#25	23.17	1.4	-0.75	22.42	0.175	7.00	Pass
	MCH		RB50#0	23.24	1.4	-0.75	22.49	0.177	7.00	Pass
	IVIOIT		RB1#0	22.95	1.4	-0.75	22.20	0.166	7.00	Pass
			RB1#25	23.2	1.4	-0.75	22.45	0.176	7.00	Pass
		16-	RB1#49	23.57	1.4	-0.75	22.82	0.191	7.00	Pass
		QAM	RB25#0	22.33	1.4	-0.75	21.58	0.144	7.00	Pass
		3,	RB25#13	22.42	1.4	-0.75	21.67	0.147	7.00	Pass
			RB25#25	22.25	1.4	-0.75	21.50	0.141	7.00	Pass
			RB50#0	22.14	1.4	-0.75	21.39	0.138	7.00	Pass
	HCH	QPSK	RB1#0	24.25	1.4	-0.75	23.50	0.224	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offs et)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm	ERP (W)	Limit (W)	Verdict
				LTE BA	ND5					
			RB1#25	24.37	1.4	-0.75	23.62	0.230	7.00	Pass
			RB1#49	24.24	1.4	-0.75	23.49	0.223	7.00	Pass
			RB25#0	23.21	1.4	-0.75	22.46	0.176	7.00	Pass
			RB25#13	23.27	1.4	-0.75	22.52	0.179	7.00	Pass
			RB25#25	23.15	1.4	-0.75	22.40	0.174	7.00	Pass
			RB50#0	23.26	1.4	-0.75	22.51	0.178	7.00	Pass
			RB1#0	23.14	1.4	-0.75	22.39	0.173	7.00	Pass
			RB1#25	23.15	1.4	-0.75	22.40	0.174	7.00	Pass
		16	RB1#49	22.96	1.4	-0.75	22.21	0.166	7.00	Pass
		16- QAM	RB25#0	22.46	1.4	-0.75	21.71	0.148	7.00	Pass
		QAM	RB25#13	22.4	1.4	-0.75	21.65	0.146	7.00	Pass
			RB25#25	22.18	1.4	-0.75	21.43	0.139	7.00	Pass
			RB50#0	22.19	1.4	-0.75	21.44	0.139	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND13					
			RB1#0	24.13	1.4	-0.75	23.38	0.218	3.00	Pass
			RB1#3	24.14	1.4	-0.75	23.39	0.218	3.00	Pass
			RB1#5	24.25	1.4	-0.75	23.50	0.224	3.00	Pass
		QPSK	RB3#0	23.37	1.4	-0.75	22.62	0.183	3.00	Pass
			RB3#2	23.26	1.4	-0.75	22.51	0.178	3.00	Pass
			RB3#3	23.32	1.4	-0.75	22.57	0.181	3.00	Pass
	LCH		RB6#0	23.24	1.4	-0.75	22.49	0.177	3.00	Pass
	LCH		RB1#0	22.76	1.4	-0.75	22.01	0.159	3.00	Pass
		16-	RB1#3	22.66	1.4	-0.75	21.91	0.155	3.00	Pass
			RB1#5	22.79	1.4	-0.75	22.04	0.160	3.00	Pass
		QAM	RB3#0	22.38	1.4	-0.75	21.63	0.146	3.00	Pass
		QAM	RB3#2	22.24	1.4	-0.75	21.49	0.141	3.00	Pass
			RB3#3	22.33	1.4	-0.75	21.58	0.144	3.00	Pass
			RB6#0	22.1	1.4	-0.75	21.35	0.136	3.00	Pass
			RB1#0	24.13	1.4	-0.75	23.38	0.218	3.00	Pass
			RB1#3	24.36	1.4	-0.75	23.61	0.230	3.00	Pass
			RB1#5	24.32	1.4	-0.75	23.57	0.228	3.00	Pass
		QPSK	RB3#0	23.19	1.4	-0.75	22.44	0.175	3.00	Pass
5 MHz			RB3#2	23.44	1.4	-0.75	22.69	0.186	3.00	Pass
			RB3#3	23.34	1.4	-0.75	22.59	0.182	3.00	Pass
	MCH		RB6#0	23.21	1.4	-0.75	22.46	0.176	3.00	Pass
	IVICIT		RB1#0	22.93	1.4	-0.75	22.18	0.165	3.00	Pass
			RB1#3	23.04	1.4	-0.75	22.29	0.169	3.00	Pass
		16-	RB1#5	23.02	1.4	-0.75	22.27	0.169	3.00	Pass
		QAM	RB3#0	22.14	1.4	-0.75	21.39	0.138	3.00	Pass
		QAIVI	RB3#2	22.39	1.4	-0.75	21.64	0.146	3.00	Pass
			RB3#3	22.35	1.4	-0.75	21.60	0.145	3.00	Pass
			RB6#0	22.16	1.4	-0.75	21.41	0.138	3.00	Pass
			RB1#0	24.32	1.4	-0.75	23.57	0.228	3.00	Pass
			RB1#3	24.36	1.4	-0.75	23.61	0.230	3.00	Pass
			RB1#5	23.92	1.4	-0.75	23.17	0.207	3.00	Pass
		QPSK	RB3#0	23.27	1.4	-0.75	22.52	0.179	3.00	Pass
	HCH		RB3#2	23.42	1.4	-0.75	22.67	0.185	3.00	Pass
	11011		RB3#3	23.12	1.4	-0.75	22.37	0.173	3.00	Pass
			RB6#0	23.21	1.4	-0.75	22.46	0.176	3.00	Pass
		16-	RB1#0	23.21	1.4	-0.75	22.46	0.176	3.00	Pass
		QAM	RB1#3	23.07	1.4	-0.75	22.32	0.171	3.00	Pass
		G/ tivi	RB1#5	22.52	1.4	-0.75	21.77	0.150	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND13										
			RB3#0	22.37	1.4	-0.75	21.62	0.145	3.00	Pass
			RB3#2	22.17	1.4	-0.75	21.42	0.139	3.00	Pass
			RB3#3	22.12	1.4	-0.75	21.37	0.137	3.00	Pass
			RB6#0	22.23	1.4	-0.75	21.48	0.141	3.00	Pass
			RB1#0	24.24	1.4	-0.75	23.49	0.223	3.00	Pass
			RB1#7	24.36	1.4	-0.75	23.61	0.230	3.00	Pass
			RB1#14	24.22	1.4	-0.75	23.47	0.222	3.00	Pass
		QPSK	RB8#0	23.18	1.4	-0.75	22.43	0.175	3.00	Pass
			RB8#4	23.23	1.4	-0.75	22.48	0.177	3.00	Pass
			RB8#7	23.33	1.4	-0.75	22.58	0.181	3.00	Pass
10	MCH		RB15#0	23.19	1.4	-0.75	22.44	0.175	3.00	Pass
MHz	IVICH		RB1#0	23.51	1.4	-0.75	22.76	0.189	3.00	Pass
			RB1#7	23.66	1.4	-0.75	22.91	0.195	3.00	Pass
		16	RB1#14	23.39	1.4	-0.75	22.64	0.184	3.00	Pass
		16- QAM	RB8#0	22.18	1.4	-0.75	21.43	0.139	3.00	Pass
		QAM	RB8#4	22.21	1.4	-0.75	21.46	0.140	3.00	Pass
			RB8#7	22.1	1.4	-0.75	21.35	0.136	3.00	Pass
			RB15#0	22.18	1.4	-0.75	21.43	0.139	3.00	Pass



A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Note 2: Test plots please refer to the document "Annex No.:BL-SZ21B0604-501 Data Part 1.pdf".

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict
			ODCK	RB1#0	2.53	13	1.1	Pass
		1.011	QPSK	RB100#0	3.61	13	1.2	Pass
		LCH	1C O A M	RB1#0	3.05	13	1.3	Pass
			16-QAM	RB100#0	4.36	13	1.4	Pass
			ODCK	RB1#0	2.39	13	1.5	Pass
LTE	20 MILE	MOLL	QPSK	RB100#0	4.03	13	1.6	Pass
Band 2	20 MHz	MCH	1C O A M	RB1#0	2.91	13	1.7	Pass
			16-QAM	RB100#0	4.83	13	1.8	Pass
			ODCK	RB1#0	2.48	13	1.9	Pass
		11011	QPSK	RB100#0	4.08	13	1.10	Pass
		HCH	1C O A M	RB1#0	3.14	13	1.11	Pass
			16-QAM	RB100#0	4.78	13	1.12	Pass
			ODCK	RB1#0	2.58	13	2.1	Pass
		1.011	QPSK	RB100#0	4.12	13	2.2	Pass
		LCH	16-QAM	RB1#0	3.05	13	2.3	Pass
			16-QAM	RB100#0	4.92	13	2.4	Pass
			ODCK	RB1#0	2.81	13	2.5	Pass
LTE	20 MI I=	MOLL	QPSK	RB100#0	4.03	13	2.6	Pass
Band 4	20 MHz	MCH	16 OAM	RB1#0	3.61	13	2.7	Pass
			16-QAM	RB100#0	4.83	13	2.8	Pass
			ODCK	RB1#0	2.77	13	2.9	Pass
		HCH	QPSK	RB100#0	3.84	13	2.10	Pass
		пСп	16-QAM	RB1#0	3.52	13	2.11	Pass
			10-QAW	RB100#0	4.69	13	2.12	Pass
			QPSK	RB1#0	3	13	3.1	Pass
		LCH	QPSN	RB50#0	4.64	13	3.2	Pass
		LOH	16-QAM	RB1#0	4.03	13	3.3	Pass
			10-QAW	RB50#0	5.44	13	3.4	Pass
LTE	10 MHz		QPSK	RB1#0	3.8	13	3.5	Pass
Band 5	I U IVITZ	MCH	WF3N	RB50#0	4.83	13	3.6	Pass
		IVICH	16-QAM	RB1#0	4.64	13	3.7	Pass
			IU-WAN	RB50#0	5.72	13	3.8	Pass
		ПСП	QPSK	RB1#0	3.28	13	3.9	Pass
		HCH	QF3N	RB50#0	4.64	13	3.10	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict
			16 OAM	RB1#0	4.08	13	3.11	Pass
			16-QAM	RB50#0	5.39	13	3.12	Pass
			QPSK	RB1#0	2.95	13	4.1	Pass
LTE	10 M⊔ -	МСП	QPSN	RB100#0	5.25	13	4.2	Pass
Band 13	Band 13	MCH -	40.0414	RB1#0	3.75	13	4.3	Pass
			16-QAM	RB100#0	6.05	13	4.4	Pass



A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document "Annex No.:BL-SZ21B0604-501 Data Part 2.pdf".

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to
		1.011	QPSK	RB6#0	1.093	1.361	1.1
		LCH	16-QAM	RB6#0	1.097	1.358	1.2
	4 4 1 1 1 -	MOLL	QPSK	RB6#0	1.089	1.371	1.3
	1.4 MHz	MCH	16-QAM	RB6#0	1.09	1.32	1.4
		11011	QPSK	RB6#0	1.094	1.32	1.5
		HCH	16-QAM	RB6#0	1.091	1.308	1.6
		LCH	QPSK	RB15#0	2.701	3.008	1.7
		LCH	16-QAM	RB15#0	2.706	3.007	1.8
	2 M⊔-	MCH	QPSK	RB15#0	2.707	3.005	1.9
	3 MHz	MCH	16-QAM	RB15#0	2.697	2.981	1.10
		ПСП	QPSK	RB15#0	2.703	3.008	1.11
		HCH	16-QAM	RB15#0	2.699	3.02	1.12
	5 MHz	LCH	QPSK	RB25#0	4.514	5.04	1.13
		LCH	16-QAM	RB25#0	4.506	5.022	1.14
		MCH	QPSK	RB25#0	4.496	5.022	1.15
		IVICIT	16-QAM	RB25#0	4.509	5.065	1.16
Band 2		ם כם	QPSK	RB25#0	4.501	5.029	1.17
Danu Z		HCH	16-QAM	RB25#0	4.513	5.036	1.18
		LCH	QPSK	RB50#0	8.965	10.087	1.19
		LON	16-QAM	RB50#0	8.942	9.943	1.20
	10 MHz	MCH	QPSK	RB50#0	8.935	9.962	1.21
	TO WITZ	IVICIT	16-QAM	RB50#0	8.948	9.901	1.22
		HCH	QPSK	RB50#0	8.969	10.035	1.23
		1011	16-QAM	RB50#0	8.973	9.893	1.24
		LCH	QPSK	RB75#0	13.432	15.082	1.25
		LON	16-QAM	RB75#0	13.432	14.784	1.26
	15 MH-	MCH	QPSK	RB75#0	13.4	14.801	1.27
	15 MHz	IVICIT	16-QAM	RB75#0	13.416	14.703	1.28
		НСН	QPSK	RB75#0	13.495	15.359	1.29
		11011	16-QAM	RB75#0	13.498	14.94	1.30
		LCH	QPSK	RB100#0	17.901	20.629	1.31
	20 MH-	LOIT	16-QAM	RB100#0	17.951	20.02	1.32
	20 MHz	Hz 	QPSK	RB100#0	17.873	19.489	1.33
		IVIOII	16-QAM	RB100#0	17.883	19.702	1.34



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to
		ПСП	QPSK	RB100#0	17.99	20.306	1.35
		HCH		RB100#0	17.961	19.674	1.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to
			QPSK	RB6#0	1.093	1.336	2.1
		LCH	16-QAM	RB6#0	1.098	1.358	2.2
	4 4 5 41 1	14011	QPSK	RB6#0	1.091	1.338	2.3
	1.4 MHz	MCH	16-QAM	RB6#0	1.087	1.303	2.4
		ПСП	QPSK	RB6#0	1.093	1.33	2.5
		HCH	16-QAM	RB6#0	1.093	1.33	2.6
		1.011	QPSK	RB15#0	2.701	3.033	2.7
		LCH	16-QAM	RB15#0	2.697	3.013	2.8
	3 MHz	MCH	QPSK	RB15#0	2.699	2.994	2.9
	3 IVITZ	IVICH	16-QAM	RB15#0	2.704	2.985	2.10
		HCH	QPSK	RB15#0	2.706	3.017	2.11
	5 MHz	пСп	16-QAM	RB15#0	2.703	2.983	2.12
		LCH	QPSK	RB25#0	4.497	5.053	2.13
			16-QAM	RB25#0	4.506	5.032	2.14
		MCH	QPSK	RB25#0	4.519	5.009	2.15
	O IVITZ	IVICH	16-QAM	RB25#0	4.499	4.984	2.16
Band 4		HCH	QPSK	RB25#0	4.502	5.051	2.17
		11011	16-QAM	RB25#0	4.51	5.071	2.18
		LCH	QPSK	RB50#0	8.948	10.023	2.19
		LON	16-QAM	RB50#0	8.932	9.912	2.20
	10 MHz	MCH	QPSK	RB50#0	8.946	9.965	2.21
	I U IVITIZ	IVICH	16-QAM	RB50#0	8.945	9.879	2.22
		HCH	QPSK	RB50#0	8.956	9.922	2.23
		11011	16-QAM	RB50#0	8.944	9.892	2.24
		LCH	QPSK	RB75#0	13.432	14.808	2.25
		LOIT	16-QAM	RB75#0	13.432	14.751	2.26
	15 MH 2	MCH	QPSK	RB75#0	13.389	14.744	2.27
	15 MHz	IVICIT	16-QAM	RB75#0	13.414	14.703	2.28
		HCH	QPSK	RB75#0	13.401	14.72	2.29
		11011	16-QAM	RB75#0	13.421	14.84	2.30
		LCH	QPSK	RB100#0	17.868	19.424	2.31
	20 MHz	LOIT	16-QAM	RB100#0	17.937	19.594	2.32
		MCH	QPSK	RB100#0	17.866	19.37	2.33



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot ^{Note2}
					(MHz)	(MHz)	
			16-QAM	RB100#0	17.878	19.483	2.34
		LICII	QPSK	RB100#0	17.91	19.908	2.35
		HCH	16-QAM	RB100#0	17.863	19.579	2.36

					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot ^{Note2}
					(MHz)	(MHz)	
		LCH	QPSK	RB6#0	1.092	1.34	3.1
		LCI	16-QAM	RB6#0	1.096	1.324	3.2
	1.4 MHz	MCH	QPSK	RB6#0	1.089	1.306	3.3
	1.4 IVITZ	WCT	16-QAM	RB6#0	1.089	1.277	3.4
		HCH	QPSK	RB6#0	1.093	1.283	3.5
		ПОП	16-QAM	RB6#0	1.092	1.301	3.6
		LCH	QPSK	RB15#0	2.698	3	3.7
	3 MHz	LCH	16-QAM	RB15#0	2.704	2.993	3.8
		MCH	QPSK	RB15#0	2.709	2.987	3.9
			16-QAM	RB15#0	2.699	2.999	3.10
		НСН	QPSK	RB15#0	2.707	2.99	3.11
Band 5			16-QAM	RB15#0	2.696	2.986	3.12
Danu 3		LCH	QPSK	RB25#0	4.508	5.045	3.13
			16-QAM	RB25#0	4.5	5.02	3.14
	5 MHz	MCH	QPSK	RB25#0	4.499	5.023	3.15
	O IVITZ	IVICH	16-QAM	RB25#0	4.516	5.014	3.16
		HCH	QPSK	RB25#0	4.492	4.976	3.17
		пСп	16-QAM	RB25#0	4.497	5.004	3.18
		1.011	QPSK	RB50#0	8.952	9.844	3.19
		LCH	16-QAM	RB50#0	8.937	9.892	3.20
	10 MHz	MCH	QPSK	RB50#0	8.977	10.003	3.21
	IU WIMZ	MCH	16-QAM	RB50#0	8.976	9.795	3.22
		HCH	QPSK	RB50#0	8.914	9.849	3.23
		поп	16-QAM	RB50#0	8.921	9.787	3.24



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to
	5 MHz		QPSK	RB25#0	4.505	4.985	4.1
		LCH	16-QAM	RB25#0	4.499	4.988	4.2
		5 MHz MCH	QPSK	RB25#0	4.507	5.016	4.3
Band			16-QAM	RB25#0	4.523	5.029	4.4
13			QPSK	RB25#0	4.49	4.962	4.5
			16-QAM	RB25#0	4.511	5.014	4.6
	10 MU-	MCH	QPSK	RB50#0	9.022	10.045	4.7
	10 MHz	IVICH	16-QAM	RB50#0	9.016	9.906	4.8



A.4 Frequency Stability

LTE Band 2 QPSK 10 MHz

Tes	st Conditions	Frequen	Frequency Deviation		
D (\(\lambda\)	T (%O)		MCH 1880 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-2.5			
	-20	-3.53			
	-10	-3.36		Pass	
	0	-3.93			
	10	-3.33	±4700		
3.8	20	-4.16			
	25	-4.58			
	30	-4.69			
	40	-3.48			
	50	-3.28			
	60	-3.99			
4.35	25	-4.43	1		
3.5	25	-4.92			

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequen	Frequency Deviation		
Davis (1/DC)	Tananarahura (%C)		MCH 1880 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-3.72			
	-20	-4.28			
	-10	-4.01		Pass	
	0	-3.53			
	10	-3.85			
3.8	20	-3.85			
	25	-2.93	±4700		
	30	-3.58			
	40	-3.2			
	50	-3.89			
	60	-3.36			
4.35	25	-4.19			
3.5	25	-4.72			



LTE Band 4 QPSK 10 MHz

Tes	Test Conditions		cy Deviation		
Davier (1/DC)	Town analysis (°C)		MCH 1732.5 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-0.8			
	-20	0.26			
	-10	-0.44		Pass	
	0	0.09			
	10	0.07	±4331.25		
3.8	20	0.24			
	25	-1.02			
	30	0.56			
	40	-0.24			
	50	-0.41			
	60	-0.04			
4.35	25	1.85			
3.5	25	0.16			

LTE Band 4 16QAM 10 MHz

Tes	st Conditions	Frequen	cy Deviation		
D (1/DQ)	T (%O)		MCH 2.5 MHz	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	0.07			
	-20	-0.51			
	-10	-0.07		Pass	
	0	-0.11			
	10	-0.97			
3.8	20	-0.57			
	25	-0.26	±4331.25		
	30	-0.2			
	40	-0.72			
	50	-0.37			
	60	-0.2			
4.35	25	-0.17			
3.5	25	0.39			



LTE Band 5 QPSK 10 MHz

Te	Test Conditions		cy Deviation		
D (1/DQ)	T (%C)		ЛСН .5 MHz	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-0.4			
	-20	-0.74			
	-10	-1.24		Pass	
	0	-0.34			
	10	-0.94			
3.8	20	-0.86			
	25	-0.41	±2091.25		
	30	0.34			
	40	-0.23			
	50	-0.46			
	60	-0.09			
4.35	25	-0.9			
3.5	25	-2.07			

LTE Band 5 16QAM 10 MHz

Tes	st Conditions	Frequen	cy Deviation		
D (1/DQ)	T (%O)		ЛСН .5 MHz	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-0.56			
	-20	-1.13			
	-10	-1.23		Pass	
	0	-0.53			
	10	-0.49			
3.8	20	-0.13			
	25	-0.72	±2091.25		
	30	-1			
	40	-0.31			
	50	-1.07			
	60	-0.7			
4.35	25	-0.97			
3.5	25	-1.4			



LTE Band 13 QPSK 10 MHz

Tes	st Conditions	Frequen	cy Deviation		
D (1/DQ)	T (%O)		MCH 2 MHz	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-0.73			
	-20	-0.97			
	-10	-1.33			
	0	-0.99			
	10	-1.34			
3.8	20	0.6			
	25	-0.97	±1955	Pass	
	30	-0.3			
	40	0.26			
	50	0.27			
	60	-0.1			
4.35	25	-0.69			
3.5	25	-1.13			

LTE Band 13 16QAM10 MHz

Tes	st Conditions	Frequen	cy Deviation		
Davis (V/DC)	Towns and we (°C)		MCH 2 MHz	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-2.27			
	-20	-1.66			
	-10	-1.82		Pass	
	0	-0.74			
	10	-1.04			
3.8	20	-1.1			
	25	-1.13	±1955		
	30	-0.8			
	40	-0.16			
	50	-0.66			
	60	-0.84			
4.35	25	-0.97			
3.5	25	-1.26			



A.5 Spurious Emission at Antenna Terminals

Note 1: Only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-SZ21B0604-501 Data Part 3.pdf".

LTE Mode Test Verdict

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	verdict
		LCH	QPSK	RB1#0	1.1	Pass
		LCH	16-QAM	RB1#0	1.2	Pass
	1.4 MHz	МСН	QPSK	RB1#0	1.3	Pass
	1.4 IVITZ	IVICH	16-QAM	RB1#0	1.4	Pass
		НСН	QPSK	RB1#0	1.5	Pass
		пСп	16-QAM	RB1#0	1.6	Pass
		LCH	QPSK	RB1#0	1.7	Pass
		LO	16-QAM	RB1#0	1.8	Pass
	3 MHz	MCH	QPSK	RB1#0	1.9	Pass
	3 IVITZ	IVICH	16-QAM	RB1#0	1.10	Pass
		HCH	QPSK	RB1#0	1.11	Pass
		11011	16-QAM	RB1#0	1.12	Pass
	5 MHz	LCH	QPSK	RB1#0	1.13	Pass
		LOTT	16-QAM	RB1#0	1.14	Pass
		мсн нсн	QPSK	RB1#0	1.15	Pass
Band 2			16-QAM	RB1#0	1.16	Pass
Dana 2			QPSK	RB1#0	1.17	Pass
			16-QAM	RB1#0	1.18	Pass
		LCH	QPSK	RB1#0	1.19	Pass
		2011	16-QAM	RB1#0	1.20	Pass
	10 MHz	MCH	QPSK	RB1#0	1.21	Pass
	10 1011 12	WIOTT	16-QAM	RB1#0	1.22	Pass
		HCH	QPSK	RB1#0	1.23	Pass
		11011	16-QAM	RB1#0	1.24	Pass
		LCH	QPSK	RB1#0	1.25	Pass
		LOIT	16-QAM	RB1#0	1.26	Pass
	15 MHz	MCH	QPSK	RB1#0	1.27	Pass
	I O IVII IZ	IVIOII	16-QAM	RB1#0	1.28	Pass
		HCH	QPSK	RB1#0	1.29	Pass
		11011	16-QAM	RB1#0	1.30	Pass
	20 MHz	LCH	QPSK	RB1#0	1.31	Pass
	∠U MHZ	LCH	16-QAM	RB1#0	1.32	Pass



	Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Ī			MCH	QPSK	RB1#0	1.33	Pass
			IVICH	16-QAM	RB1#0	1.34	Pass
			НСН	QPSK	RB1#0	1.35	Pass
			поп	16-QAM	RB1#0	1.36	Pass

Test	Test	Test	Test	Test RB	Refer to	\
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	Verdict
		1.011	QPSK	RB1#0	2.1	Pass
		LCH	16-QAM	RB1#0	2.2	Pass
	4 4 MH I-	14011	QPSK	RB1#0	2.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	2.4	Pass
		НСН	QPSK	RB1#0	2.5	Pass
		пСп	16-QAM	RB1#0	2.6	Pass
		1.011	QPSK	RB1#0	2.7	Pass
		LCH	16-QAM	RB1#0	2.8	Pass
	2 MI I-	MCH	QPSK	RB1#0	2.9	Pass
	3 MHz	IVICH	16-QAM	RB1#0	2.10	Pass
		ПСП	QPSK	RB1#0	2.11	Pass
		HCH	16-QAM	RB1#0	2.12	Pass
		LCH	QPSK	RB1#0	2.13	Pass
			16-QAM	RB1#0	2.14	Pass
	5 MHz	MCH	QPSK	RB1#0	2.15	Pass
	3 MITZ	IVICH	16-QAM	RB1#0	2.16	Pass
Band 4		HCH	QPSK	RB1#0	2.17	Pass
Danu 4			16-QAM	RB1#0	2.18	Pass
		LCH	QPSK	RB1#0	2.19	Pass
			16-QAM	RB1#0	2.20	Pass
	10 MHz	MCH	QPSK	RB1#0	2.21	Pass
	10 1011 12	IVICIT	16-QAM	RB1#0	2.22	Pass
		HCH	QPSK	RB1#0	2.23	Pass
		11011	16-QAM	RB1#0	2.24	Pass
		LCH	QPSK	RB1#0	2.25	Pass
		LOIT	16-QAM	RB1#0	2.26	Pass
	15 MHz	MCH	QPSK	RB1#0	2.27	Pass
	13 1011 12	IVICIT	16-QAM	RB1#0	2.28	Pass
		HCH	QPSK	RB1#0	2.29	Pass
		ПОП	16-QAM	RB1#0	2.30	Pass
		LCH	QPSK	RB1#0	2.31	Pass
	20 MHz	LON	16-QAM	RB1#0	2.32	Pass
	ZU IVITZ	MCH	QPSK	RB1#0	2.33	Pass
		IVICIT	16-QAM	RB1#0	2.34	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
		HCH	QPSK	RB1#0	2.35	Pass
			16-QAM	RB1#0	2.36	Pass

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	verdict
		LCH	QPSK	RB1#0	3.1	Pass
		LCH	16-QAM	RB1#0	3.2	Pass
	1.4 MHz	MCH	QPSK	RB1#0	3.3	Pass
	1.4 IVI⊓Z		16-QAM	RB1#0	3.4	Pass
			QPSK	RB1#0	3.5	Pass
		HCH	16-QAM	RB1#0	3.6	Pass
		LCH	QPSK	RB1#0	3.7	Pass
		LCH	16-QAM	RB1#0	3.8	Pass
	3 MHz	MCH	QPSK	RB1#0	3.9	Pass
	3 MITZ		16-QAM	RB1#0	3.10	Pass
		НСН	QPSK	RB1#0	3.11	Pass
Band 5			16-QAM	RB1#0	3.12	Pass
Danu 3		LCH	QPSK	RB1#0	3.13	Pass
			16-QAM	RB1#0	3.14	Pass
	5 MHz	MCH	QPSK	RB1#0	3.15	Pass
	3 MITZ	IVICH	16-QAM	RB1#0	3.16	Pass
		НСН	QPSK	RB1#0	3.17	Pass
		ПОП	16-QAM	RB1#0	3.18	Pass
		LCH	QPSK	RB1#0	3.19	Pass
		LOH	16-QAM	RB1#0	3.20	Pass
	10 MHz	MCH	QPSK	RB1#0	3.21	Pass
	I U IVITIZ	IVICH	16-QAM	RB1#0	3.22	Pass
		11011	QPSK	RB1#0	3.23	Pass
		HCH	16-QAM	RB1#0	3.24	Pass

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	verdict
		LCH	QPSK	RB1#0	4.1	Pass
		LON	16-QAM	RB1#0	4.2	Pass
	E M⊔→	5 MHz MCH	QPSK	RB1#0	4.3	Pass
Dond 12	3 IVITZ		16-QAM	RB1#0	4.4	Pass
Band 13			QPSK	RB1#0	4.5	Pass
			16-QAM	RB1#0	4.6	Pass
	40 MH=	MCH	QPSK	RB1#0	4.7	Pass
	10 MHz		16-QAM	RB1#0	4.8	Pass



A.6 Band Edge

Note 1: Test plots please refer to the document "Annex No.:BL-SZ21B0604-501 Data Part 4.pdf".

LTE Mode Test Verdict

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	VCIGICE
			QPSK	RB1#0	1.1	Pass
		LCH	QI OIL	RB6#0	1.2	Pass
			16-QAM	RB1#0	1.3	Pass
	1.4 MHz		10-Q/ (IVI	RB6#0	1.4	Pass
	1.7 IVII IZ		QPSK	RB1#5	1.5	Pass
		HCH	QI OIL	RB6#0	1.6	Pass
		11011	16-QAM	RB1#5	1.7	Pass
			10-QAIVI	RB6#0	1.8	Pass
			QPSK	RB1#0	1.9	Pass
		LCH	QI SIX	RB15#0	1.10	Pass
	LCH	LOIT	16-QAM	RB1#0	1.11	Pass
	3 MHz		10-QAIVI	RB15#0	1.12	Pass
	3 IVITZ		QPSK -	RB1#14	1.13	Pass
		НСН		RB15#0	1.14	Pass
		пСп	16-QAM	RB1#14	1.15	Pass
				RB15#0	1.16	Pass
			QPSK	RB1#0	1.17	Pass
		LCH	QPSK	RB25#0	1.18	Pass
Band 2		нсн	16-QAM	RB1#0	1.19	Pass
	5 MHz		10-QAIVI	RB25#0	1.20	Pass
	J IVII IZ		QPSK	RB1#24	1.21	Pass
				RB25#0	1.22	Pass
		11011	16-QAM	RB1#24	1.23	Pass
			10-QAIVI	RB25#0	1.24	Pass
			QPSK	RB1#0	1.25	Pass
		1 0 4	QF3N	RB50#0	1.26	Pass
		LCH	16-QAM	RB1#0	1.27	Pass
	10 M⊔→		10-QAIVI	RB50#0	1.28	Pass
	10 MHz		ODCK	RB1#49	1.29	Pass
		ПСП	QPSK	RB50#0	1.30	Pass
		HCH	40.0004	RB1#49	1.31	Pass
			16-QAM	RB50#0	1.32	Pass
			ODOK	RB1#0	1.33	Pass
		1.011	QPSK	RB75#0	1.34	Pass
	15 MHz	LCH	16-QAM	RB1#0	1.35	Pass
				RB75#0	1.36	Pass
		HCH	QPSK	RB1#74	1.37	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	
				RB75#0	1.38	Pass
			16-QAM	RB1#74	1.39	Pass
				RB75#0	1.40	Pass
			QPSK -	RB1#0	1.41	Pass
		LCH		RB100#0	1.42	Pass
		LCH		RB1#0	1.43	Pass
	20 MHz		16-QAM	RB100#0	1.44	Pass
	20 IVITZ		ODSK	RB1#99	1.45	Pass
	нсн	QPSK	RB100#0	1.46	Pass	
		16 OAM	RB1#99	1.47	Pass	
			16-QAM	RB100#0	1.48	Pass

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	verdict
		LCH	QPSK	RB1#0	2.1	Pass
			QPSK	RB6#0	2.2	Pass
		LCH	16-QAM	RB1#0	2.3	Pass
	1.4 MHz			RB6#0	2.4	Pass
	1.4 IVITIZ		QPSK	RB1#5	2.5	Pass
		НСН	QP5K	RB6#0	2.6	Pass
		поп	16-QAM	RB1#5	2.7	Pass
			16-QAIVI	RB6#0	2.8	Pass
			QPSK	RB1#0	2.9	Pass
		LCH	QFSN	RB15#0	2.10	Pass
			16-QAM	RB1#0	2.11	Pass
	3 MHz			RB15#0	2.12	Pass
	J IVII IZ	нсн	QPSK -	RB1#14	2.13	Pass
Band 4				RB15#0	2.14	Pass
Danu 4			16-QAM	RB1#14	2.15	Pass
			10-QAIVI	RB15#0	2.16	Pass
			QPSK -	RB1#0	2.17	Pass
		LCH	QFSK	RB25#0	2.18	Pass
		LOIT	16-QAM	RB1#0	2.19	Pass
	5 MHz		10-QAIVI	RB25#0	2.20	Pass
	J WII IZ		QPSK	RB1#24	2.21	Pass
		НСН	QFSK	RB25#0	2.22	Pass
		11011	16-QAM	RB1#24	2.23	Pass
			IU-QAW	RB25#0	2.24	Pass
			QPSK	RB1#0	2.25	Pass
	10 MHz	LCH	QF JN	RB50#0	2.26	Pass
	I U IVIITZ	LON	16-QAM	RB1#0	2.27	Pass
				RB50#0	2.28	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
			QPSK	RB1#49	2.29	Pass
		11011	QPSK	RB50#0	2.30	Pass
		HCH	16-QAM	RB1#49	2.31	Pass
			16-QAIVI	RB50#0	2.32	Pass
			QPSK	RB1#0	2.33	Pass
		LCH	QI SIX	RB75#0	2.34	Pass
	45 MI		16-QAM	RB1#0	2.35	Pass
				RB75#0	2.36	Pass
	15 MHz	НСН	QPSK	RB1#74	2.37	Pass
				RB75#0	2.38	Pass
			16-QAM	RB1#74	2.39	Pass
				RB75#0	2.40	Pass
			QPSK	RB1#0	2.41	Pass
		LCH	QFSK	RB100#0	2.42	Pass
		LOH	16-QAM	RB1#0	2.43	Pass
	20 MH-		10-QAM	RB100#0	2.44	Pass
	20 MHz		QPSK	RB1#99	2.45	Pass
		нсн -	QF3N	RB100#0	2.46	Pass
			46.0414	RB1#99	2.47	Pass
			16-QAM	RB100#0	2.48	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
			QPSK	RB1#0	3.1	Pass
		LCH	QFSK	RB6#0	3.2	Pass
		LCH	16 OAM	RB1#0	3.3	Pass
	1.4 MHz		16-QAM	RB6#0	3.4	Pass
	1. 4 ₩ΠΖ		QPSK	RB1#5	3.5	Pass
		ПСП	QPSK	RB6#0	3.6	Pass
		HCH	16-QAM	RB1#5	3.7	Pass
				RB6#0	3.8	Pass
		LCH	QPSK	RB1#0	3.9	Pass
Band 5				RB15#0	3.10	Pass
			16-QAM	RB1#0	3.11	Pass
	3 MHz			RB15#0	3.12	Pass
	3 IVITZ		QPSK	RB1#14	3.13	Pass
		НСН	QPSK	RB15#0	3.14	Pass
		поп	16-QAM	RB1#14	3.15	Pass
			10-QAIVI	RB15#0	3.16	Pass
			OBSK	RB1#0	3.17	Pass
	5 MHz	LCH	QPSK -	RB25#0	3.18	Pass
			16-QAM	RB1#0	3.19	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
				RB25#0	3.20	Pass
			QPSK	RB1#24	3.21	Pass
		ПСП		RB25#0	3.22	Pass
		HCH	16-QAM	RB1#24	3.23	Pass
				RB25#0	3.24	Pass
			QPSK	RB1#0	3.25	Pass
		LCH		RB50#0	3.26	Pass
		LCH	16-QAM	RB1#0	3.27	Pass
	10 MHz		10-QAIVI	RB50#0	3.28	Pass
	10 MHZ		QPSK	RB1#49	3.29	Pass
	нсн	UP3N	RB50#0	3.30	Pass	
		16 OAM	RB1#49	3.31	Pass	
			16-QAM	RB50#0	3.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
			QPSK	RB1#0	4.1	Pass
		LCH		RB6#0	4.2	Pass
		LON	16 0 4 14	RB1#0	4.3	Pass
	5 MHz		16-QAM	RB5#0	4.4	Pass
	O IVITZ		QPSK	RB1#5	4.5	Pass
		нсн	QFSK	RB6#0	4.6	Pass
			16-QAM	RB1#5	4.7	Pass
Band				RB5#1	4.8	Pass
13			QPSK	RB1#0	4.9	Pass
		MCH		RB6#0	4.10	Pass
		(left)	16-QAM	RB1#0	4.11	Pass
	10 MHz		10-QAM	RB5#0	4.12	Pass
	I U IVIMZ		OBSK	RB1#5	4.13	Pass
		MCH (right) 16-QAM	QFSN	RB6#0	4.14	Pass
			16 0 0 0 0	RB1#5	4.15	Pass
			IU-QAM	RB5#1	4.16	Pass

	Emission Mask								
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict			
		LCH	QPSK	RB1#0	4.17	Pass			
Dand				RB6#0	4.18	Pass			
Band 13	5 MHz		16 OAM	RB1#0	4.19	Pass			
13			16-QAM	RB5#0	4.20	Pass			
		HCH	QPSK	RB1#5	4.21	Pass			



Emission Mask										
Test	Test	Test	Test	Test RB	Refer to	Verdict				
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	Verdict				
				RB6#0	4.22	Pass				
		MCH (left)	16-QAM	RB1#5	4.23	Pass				
				RB5#1	4.24	Pass				
			QPSK	RB1#0	4.25	Pass				
	10 MHz			RB6#0	4.26	Pass				
			16-QAM	RB1#0	4.27	Pass				
				RB5#0	4.28	Pass				
		MCH (right)	QPSK	RB1#5	4.29	Pass				
				RB6#0	4.30	Pass				
			16-QAM	RB1#5	4.31	Pass				
				RB5#1	4.32	Pass				



A.7 Field Strength of Spurious Radiation

Note 1: Only the worst data with different transmit bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-SZ21B0604-501 Data Part 5.pdf".

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	1.1	Pass
	3 MHz	MCH	QPSK	RB1#0	1.2	Pass
	5 MHz	MCH	QPSK	RB1#0	1.3	Pass
	10 MHz	MCH	QPSK	RB1#0	1.4	Pass
	15 MHz	MCH	QPSK	RB1#0	1.5	Pass
	20 MHz	MCH	QPSK	RB1#0	1.6	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	2.1	Pass
	3 MHz	MCH	QPSK	RB1#0	2.2	Pass
	5 MHz	MCH	QPSK	RB1#0	2.3	Pass
	10 MHz	MCH	QPSK	RB1#0	2.4	Pass
	15 MHz	MCH	QPSK	RB1#0	2.5	Pass
	20 MHz	MCH	QPSK	RB1#0	2.6	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	3.1	Pass
	3 MHz	MCH	QPSK	RB1#0	3.2	Pass
	5 MHz	MCH	QPSK	RB1#0	3.3	Pass
	10 MHz	MCH	QPSK	RB1#0	3.4	Pass
Band 13	5 MHz	MCH	QPSK	RB1#0	4.1	Pass
	10 MHz	MCH	QPSK	RB1#0	4.2	Pass



ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ21B0604-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ21B0604-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-SZ21B0604-AI.PDF".

--END OF REPORT--