

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
GSM/WCDMA/LTE handset

ISSUED TO
Haier Telecom (Qingdao) Co., Ltd

No 1, Haier Road, Hi-tech Zone, Qingdao, China



Tested by:

Tu Lang
Tu Lang
(Engineer)

Date

Jun. 20, 2016

Approved by:

Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date

Jun. 20, 2016

Report No.: BL-SZ1660057-501

EUT Type: GSM/WCDMA/LTE handset

Model Name: L30

Brand Name: Haier

Test Standard: 47 CFR Part 2 (10-1-15 Edition)
47 CFR Part 22 (10-1-15 Edition)
47 CFR Part 27 (10-1-15 Edition)

FCC ID: SG7201605L30

Test Conclusion: Pass

Test Date: Jun. 5, 2016~ Jun. 7, 2016

Date of Issue: Jun. 20, 2016

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jun. 20, 2016</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Test Environment Condition	4
1.4	Announce	5
2	PRODUCT INFORMATION	6
2.1	Applicant Information	6
2.2	Manufacturer Information	6
2.3	Factory Information	6
2.4	General Description for Equipment under Test (EUT)	6
2.5	Technical Information	7
2.6	Ancillary Equipment	7
3	SUMMARY OF TEST RESULTS.....	8
3.1	Test Standards.....	8
3.2	Test Verdict.....	9
4	GENERAL TEST CONFIGURATIONS.....	10
4.1	Test Environments	10
4.2	Test Equipment List	10
4.3	Test Configurations	11
4.4	Test Setup.....	13
5	TEST ITEMS.....	15
5.1	Transmitter Radiated Power (EIRP/ERP)	15
5.2	Peak to average ratio	17
5.3	Occupied Bandwidth	19
5.4	Frequency Stability.....	20
5.5	Spurious Emission at Antenna Terminals	22

5.6	Band Edge	23
5.7	Field Strength of Spurious Radiation	24
ANNEX A	TEST RESULTS.....	26
A.1	Transmitter Radiated Power (EIRP/ERP)	26
A.2	Peak to Average Ratio	42
A.3	Occupied Bandwidth	43
A.4	Frequency Stability.....	44
A.5	Spurious Emission at Antenna Terminals	47
A.6	Band Edge	50
A.7	Field Strength of Spurious Radiation	53
ANNEX B	TEST SETUP PHOTOS	54
ANNEX C	EUT EXTERNAL PHOTOS	54
ANNEX D	EUT INTERNAL PHOTOS	54

1 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, Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location 1	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Accreditation Certificate1	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
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 Test Environment Condition

Ambient Temperature	25 to 30 °C
Ambient Relative Humidity	45 to 60 %
Ambient Pressure	90 to 101 KPa

1.4 Announce

- (1) The test report reference to the report template version v1.1.
- (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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Haier Telecom (Qingdao)Co., Ltd
Address	No 1, Haier Road, Hi-tech Zone, Qingdao, China

2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Type	GSM/WCDMA/LTE handset
Model Name	L30
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.01
Software Version	L30-H02-S021-Tigo
Dimensions (Approx.)	136 × 66 × 10 mm
Weight (Approx.)	134.416 g
Network and Wireless connectivity	LTE FDD Band 4/ 5/ 7
About the Product	The equipment is GSM/WCDMA/LTE handset, intended for used with information technology equipment.

2.5 Technical Information

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

Frequency Bands	LTE FDD Band 4/ 5/ 7	
Modulation Type	LTE	QPSK
		16QAM
TX Frequency Range	LTE FDD Band 4: 1710 - 1755 MHz LTE FDD Band 5: 824 - 849 MHz LTE FDD Band 7: 2500 - 2570 MHz	
Rx Frequency Range	LTE FDD Band 4: 2110 - 2155 MHz LTE FDD Band 5: 869 - 894 MHz LTE FDD Band 7: 2620 - 2690 MHz	
Power Class	LTE FDD Band 4: 3 LTE FDD Band 5: 3 LTE FDD Band 7: 3	
Antenna Type	PIFA Antenna	
Antenna Gain	LTE FDD Band 4: -0.26 dBi LTE FDD Band 5: -0.71 dBi LTE FDD Band 7: -0.32 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.

2.6 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	Haier
	Model No.	H15408
	Serial No.	N/A
	Capacitance	1950 mAh
	Rated Voltage	3.8 V
	Limit Charge Voltage	4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	Haier
	Model No.	TPA-59A5065UU
	Serial No.	N/A
	Rated Input	100-240 V ~, 50/60 Hz, 0.15 A
	Rated Output	5.0 V —, 0.65 A
Ancillary Equipment 3	USB Data Cable	
	Length (Approx.)	100 cm
Ancillary Equipment 4	Earphone	
	Length (Approx.)	106 cm

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2 (10 – 1 – 15 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10 – 1 – 15 Edition)	Public Mobile Services
3	47 CFR Part 27 (10 – 1 – 15 Edition)	Miscellaneous Wireless Communications Services
4	TIA/EIA 603.D-2010	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	KDB 971168 D01 v02r02	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 27.50(d) 27.50(h)	ANNEX A.1	Pass
3	Peak to average ratio	2.0146 27.50(d)	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 27.53(h) 27.53(m)	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 27.54	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 27.53(h) 27.53(m)	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 27.53(h) 27.53(m)	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 27.53(h) 27.53(m)	ANNEX A.7	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Working Voltage of The EUT	NV (Normal Voltage)	3.8 V
	LV (Low Voltage)	3.6 V
	HV (High Voltage)	4.35 V
Working Temperature of The EUT	LT (Low Temperature)	-10 °C
	HT (High Temperature)	55 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2015.07.16	2016.07.15
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2015.10.15	2016.10.14
Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU 200	123666	2015.10.15	2016.10.14
Wireless Communications Test Set	ROHDE&SCHWARZ	CMW 500	151885	2015.07.16	2016.07.15
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13
Power Splitter	KMW	DCPD-LDC	1305003215	2015.07.01	2016.06.30
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2015.07.21	2015.07.20
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	IT6863A	60001401068 7210020	2015.07.16	2016.07.15
Temperature Chamber	ANGELANTIONI SCIENCE	SP20	1412	2015.08.07	2016.08.06
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21
Test Antenna- Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2015.02.28	2017.02.27
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

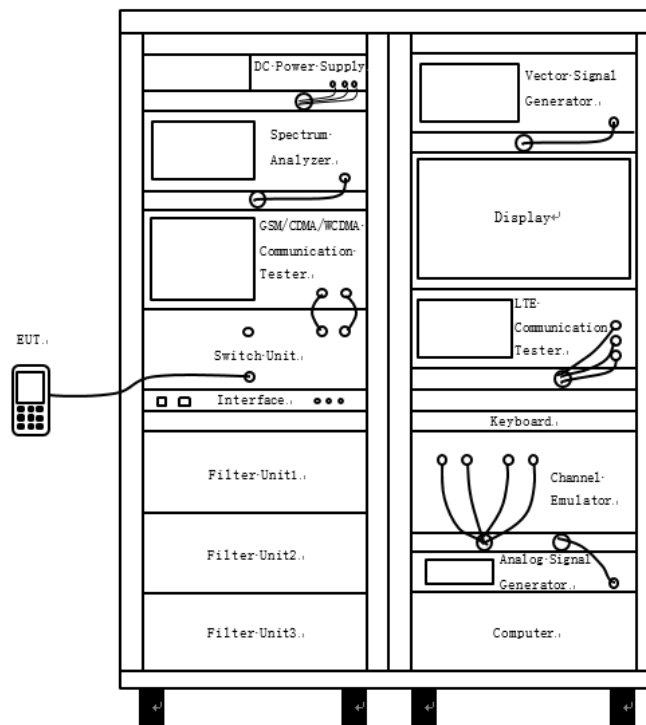
4.3 Test Configurations

LTE Band	Bandwidth (MHz)						Modulation		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
E.R.P/E.I.R.P														
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio														
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
Occupied Bandwidth														
4	v	v	v	v	v	v	v	v	--	--	v	--	v	--
5	v	v	v	v	n	n	v	v	--	--	v	--	v	--
7	n	n	v	v	v	v	v	v	--	--	v	--	v	--
Frequency Stability														
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
4	v	v	v	v	v	v	v	v	v	--	--	v	v	v
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
4	v	v	v	v	v	v	v	v	v	--	v	v	--	v
5	v	v	v	v	n	n	v	v	v	--	v	v	--	v
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	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)
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Mid Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Mid Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Mid Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560

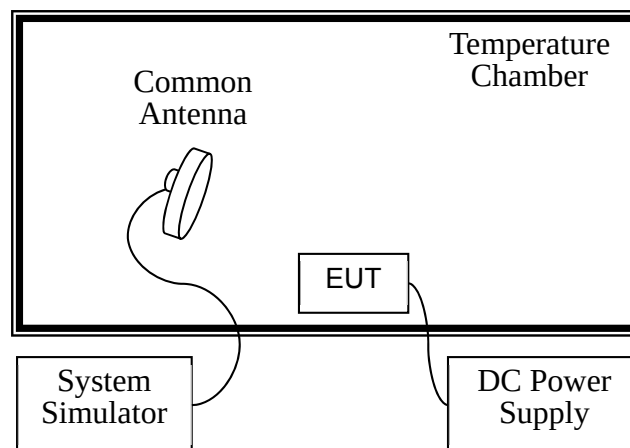
4.4 Test Setup

4.4.1 For Antenna Port Test



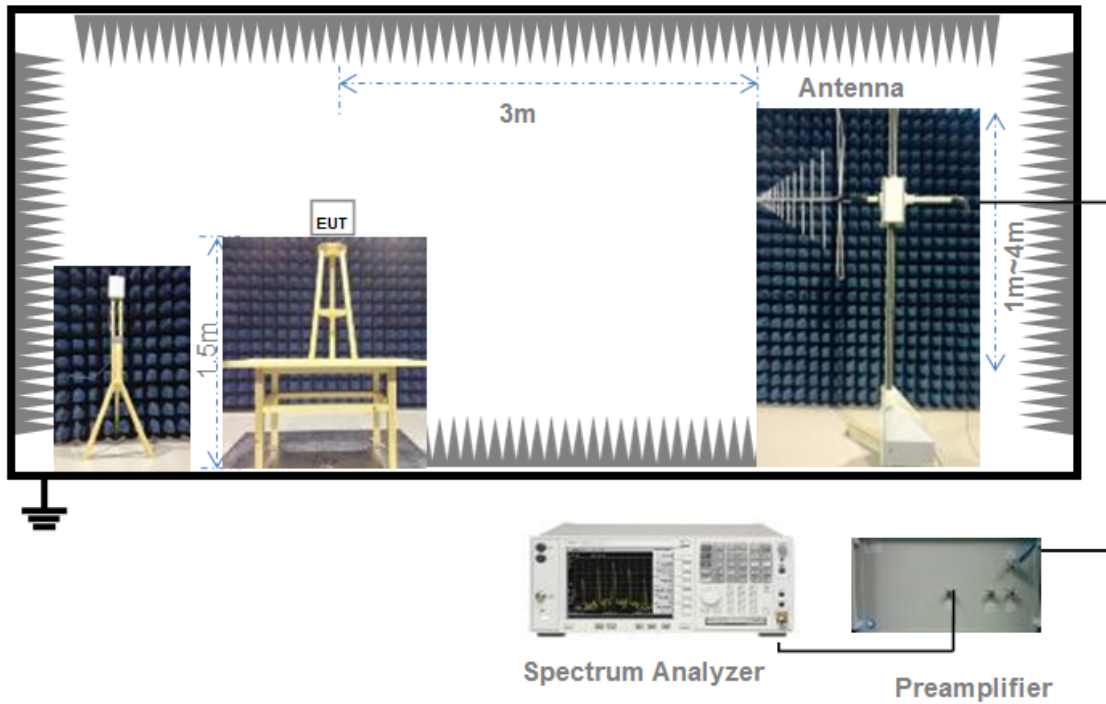
(Diagram 1)

4.4.2 For Frequency Stability Test



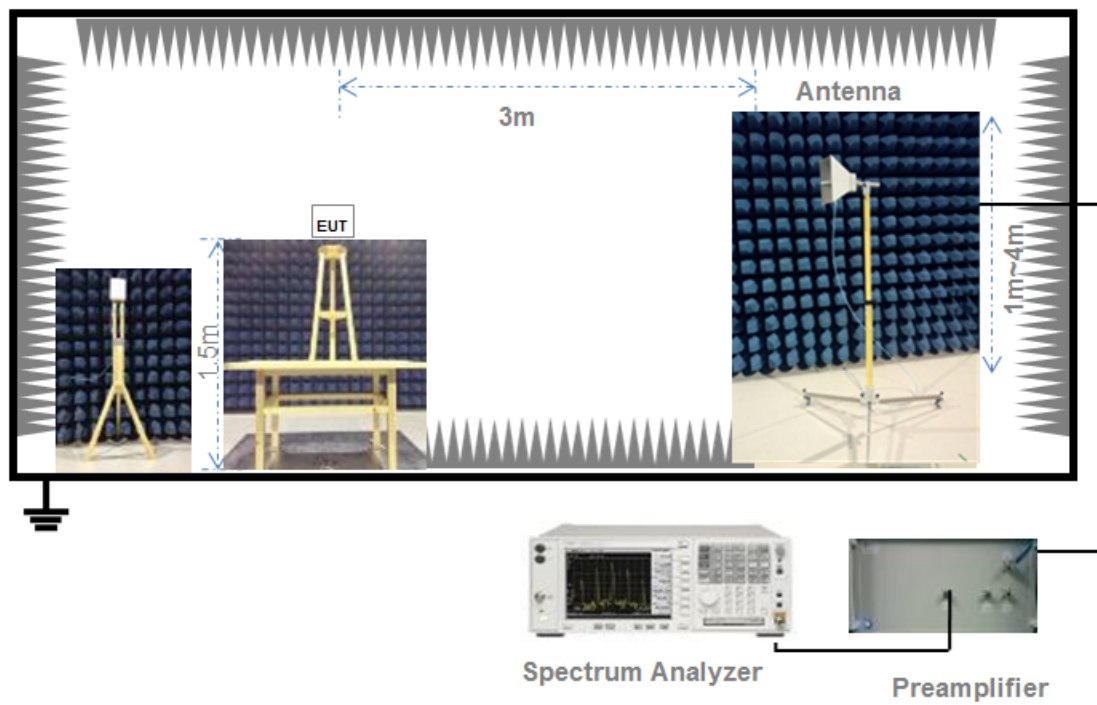
(Diagram 2)

4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

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

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts, FCC section 24.232, 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.

FCC section 27.50(d), 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, and FCC section 27.50(h) 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 was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT, Its parameters were 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.

Note: Reference test setup 4.4.1 (Diagram 1)

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).

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

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where:

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

PMeas = measured transmitter output power or PSD, in dBm or dBW;

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

$$\text{dBd (ERP)} = \text{dBi} - 2.15$$

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.

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

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 & 27.50(d)

In addition, 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.

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.

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.

5.2.2 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.

5.2.3 Test Procedure

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

Test procedures:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ 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%.

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:

$$\text{PAPR (dB)} = \text{P}_{\text{Pk}} \text{ (dBm)} - \text{P}_{\text{Avg}} \text{ (dBm)}.$$

Note: Reference test setup 4.4.1 (Diagram 1).

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.

Occupied bandwidth is also known as the 99% emission bandwidth.

5.3.2 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.

5.3.3 Test Procedure

The following procedure shall be used for measuring (99 %) 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 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 $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) Set the detection mode to peak, and the trace mode to max hold..
- f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.
- g) 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) 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).

Note: Reference test setup 4.4.1 (Diagram 1).

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

§ 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

& 24.235

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

& 27.54

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

The test conditions are:

(a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. 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.

5.4.2 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.

5.4.3 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

Note: Reference test setup 4.4.2 (Diagram 2).

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(h) & 27.53(m)

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 calculated to be -13 dBm.

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)

For mobile digital stations, the attenuation factor shall be not less than:

- $40+10\log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$ 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).

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 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 emission are attenuated at least 26 dB below the transmitter power.

Note: Reference test setup 4.4.1 (Diagram 1).

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(b) & 24.238(b) & 27.53(h) & 27.53(m)

The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43+10\log(P)$ dB.

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 (26 dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ 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 RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The center of the spectrum analyzer was set to block edge frequency.

Note: Reference test setup 4.4.1 (Diagram 1).

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 & 24.238 & 27.53(h) & 27.53(m)

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 calculated to be -13 dBm.

FCC § 27.53(h)

(1) General protection levels. 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.

(2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:

(i) Operations in the 2180-2200 MHz band are subject to the out-of-band emission requirements set forth in § 27.1134 for the protection of federal government operations operating in the 2200-2290 MHz band.

(ii) For operations in the 2000-2020 MHz band, the power of any emissions below 2000 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iii) For operations in the 1915-1920 MHz band, the power of any emission between 1930-1995 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iv) For operations in the 1995-2000 MHz band, the power of any emission between 2005-2020 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

FCC § 27.53(m)

For mobile digital stations, the attenuation factor shall be not less than:

- $40+10\log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$ 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).

5.7.2 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.

5.7.3 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 ~ 849 MHz) or horn antenna (1 850 ~ 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 receiver, 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.

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4).

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 Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
1.4 MHz	LCH	QPSK	RB1#0	23.1	-0.26	22.84	0.19	1.00	Pass
			RB1#3	23.26	-0.26	23.00	0.20	1.00	Pass
			RB1#5	23.22	-0.26	22.96	0.20	1.00	Pass
			RB3#0	23.17	-0.26	22.91	0.20	1.00	Pass
			RB3#2	23.18	-0.26	22.92	0.20	1.00	Pass
			RB3#3	23.14	-0.26	22.88	0.19	1.00	Pass
			RB6#0	22.17	-0.26	21.91	0.16	1.00	Pass
		16-QAM	RB1#0	22.87	-0.26	22.61	0.18	1.00	Pass
			RB1#3	22.9	-0.26	22.64	0.18	1.00	Pass
			RB1#5	22.82	-0.26	22.56	0.18	1.00	Pass
			RB3#0	22.31	-0.26	22.05	0.16	1.00	Pass
			RB3#2	22.34	-0.26	22.08	0.16	1.00	Pass
			RB3#3	22.32	-0.26	22.06	0.16	1.00	Pass
			RB6#0	21.05	-0.26	20.79	0.12	1.00	Pass
	MCH	QPSK	RB1#0	23.09	-0.26	22.83	0.19	1.00	Pass
			RB1#3	23.3	-0.26	23.04	0.20	1.00	Pass
			RB1#5	22.97	-0.26	22.71	0.19	1.00	Pass
			RB3#0	22.99	-0.26	22.73	0.19	1.00	Pass
			RB3#2	23.03	-0.26	22.77	0.19	1.00	Pass
			RB3#3	22.99	-0.26	22.73	0.19	1.00	Pass
			RB6#0	22.08	-0.26	21.82	0.15	1.00	Pass
		16-QAM	RB1#0	22.19	-0.26	21.93	0.16	1.00	Pass
			RB1#3	22.22	-0.26	21.96	0.16	1.00	Pass
			RB1#5	22.12	-0.26	21.86	0.15	1.00	Pass
			RB3#0	22.17	-0.26	21.91	0.16	1.00	Pass
			RB3#2	22.21	-0.26	21.95	0.16	1.00	Pass
			RB3#3	22.16	-0.26	21.90	0.15	1.00	Pass
			RB6#0	20.88	-0.26	20.62	0.12	1.00	Pass
	HCH	QPSK	RB1#0	23.03	-0.26	22.77	0.19	1.00	Pass
			RB1#3	23.12	-0.26	22.86	0.19	1.00	Pass
			RB1#5	22.98	-0.26	22.72	0.19	1.00	Pass
			RB3#0	22.9	-0.26	22.64	0.18	1.00	Pass
			RB3#2	22.92	-0.26	22.66	0.18	1.00	Pass
			RB3#3	22.89	-0.26	22.63	0.18	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
		16-QAM	RB6#0	21.94	-0.26	21.68	0.15	1.00	Pass
			RB1#0	22.15	-0.26	21.89	0.15	1.00	Pass
			RB1#3	22.16	-0.26	21.90	0.15	1.00	Pass
			RB1#5	22.16	-0.26	21.90	0.15	1.00	Pass
			RB3#0	21.98	-0.26	21.72	0.15	1.00	Pass
			RB3#2	21.9	-0.26	21.64	0.15	1.00	Pass
			RB3#3	21.84	-0.26	21.58	0.14	1.00	Pass
			RB6#0	21.08	-0.26	20.82	0.12	1.00	Pass
	LCH	QPSK	RB1#0	23.1	-0.26	22.84	0.19	1.00	Pass
			RB1#7	22.98	-0.26	22.72	0.19	1.00	Pass
			RB1#14	22.99	-0.26	22.73	0.19	1.00	Pass
			RB8#0	22.25	-0.26	21.99	0.16	1.00	Pass
			RB8#4	22.22	-0.26	21.96	0.16	1.00	Pass
			RB8#7	22.2	-0.26	21.94	0.16	1.00	Pass
			RB15#0	22.24	-0.26	21.98	0.16	1.00	Pass
		16-QAM	RB1#0	22.24	-0.26	21.98	0.16	1.00	Pass
			RB1#7	22.13	-0.26	21.87	0.15	1.00	Pass
			RB1#14	22.15	-0.26	21.89	0.15	1.00	Pass
			RB8#0	21.05	-0.26	20.79	0.12	1.00	Pass
			RB8#4	21.01	-0.26	20.75	0.12	1.00	Pass
			RB8#7	21.08	-0.26	20.82	0.12	1.00	Pass
			RB15#0	21.04	-0.26	20.78	0.12	1.00	Pass
3 MHz	MCH	QPSK	RB1#0	23.16	-0.26	22.90	0.19	1.00	Pass
			RB1#7	23.11	-0.26	22.85	0.19	1.00	Pass
			RB1#14	23.02	-0.26	22.76	0.19	1.00	Pass
			RB8#0	22.12	-0.26	21.86	0.15	1.00	Pass
			RB8#4	22.12	-0.26	21.86	0.15	1.00	Pass
			RB8#7	22.16	-0.26	21.90	0.15	1.00	Pass
			RB15#0	22.23	-0.26	21.97	0.16	1.00	Pass
		16-QAM	RB1#0	22.49	-0.26	22.23	0.17	1.00	Pass
			RB1#7	22.36	-0.26	22.10	0.16	1.00	Pass
			RB1#14	22.39	-0.26	22.13	0.16	1.00	Pass
			RB8#0	21.22	-0.26	20.96	0.12	1.00	Pass
			RB8#4	21.24	-0.26	20.98	0.13	1.00	Pass
			RB8#7	21.27	-0.26	21.01	0.13	1.00	Pass
			RB15#0	21.11	-0.26	20.85	0.12	1.00	Pass
	HCH	QPSK	RB1#0	22.96	-0.26	22.70	0.19	1.00	Pass
			RB1#7	22.92	-0.26	22.66	0.18	1.00	Pass
			RB1#14	22.93	-0.26	22.67	0.18	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
			RB8#0	22.07	-0.26	21.81	0.15	1.00	Pass
			RB8#4	22.08	-0.26	21.82	0.15	1.00	Pass
			RB8#7	22.03	-0.26	21.77	0.15	1.00	Pass
			RB15#0	22.1	-0.26	21.84	0.15	1.00	Pass
		16-QAM	RB1#0	22.21	-0.26	21.95	0.16	1.00	Pass
			RB1#7	22.17	-0.26	21.91	0.16	1.00	Pass
			RB1#14	22.21	-0.26	21.95	0.16	1.00	Pass
			RB8#0	21.25	-0.26	20.99	0.13	1.00	Pass
			RB8#4	21.18	-0.26	20.92	0.12	1.00	Pass
			RB8#7	21.22	-0.26	20.96	0.12	1.00	Pass
			RB15#0	21.13	-0.26	20.87	0.12	1.00	Pass
5 MHz	LCH	QPSK	RB1#0	23.1	-0.26	22.84	0.19	1.00	Pass
			RB1#13	22.82	-0.26	22.56	0.18	1.00	Pass
			RB1#24	22.87	-0.26	22.61	0.18	1.00	Pass
			RB12#0	22.14	-0.26	21.88	0.15	1.00	Pass
			RB12#6	22.19	-0.26	21.93	0.16	1.00	Pass
			RB12#13	22.22	-0.26	21.96	0.16	1.00	Pass
			RB25#0	22.25	-0.26	21.99	0.16	1.00	Pass
		16-QAM	RB1#0	22.14	-0.26	21.88	0.15	1.00	Pass
			RB1#13	22.2	-0.26	21.94	0.16	1.00	Pass
			RB1#24	22.21	-0.26	21.95	0.16	1.00	Pass
			RB12#0	21.07	-0.26	20.81	0.12	1.00	Pass
			RB12#6	21.04	-0.26	20.78	0.12	1.00	Pass
			RB12#13	21.08	-0.26	20.82	0.12	1.00	Pass
			RB25#0	21.16	-0.26	20.90	0.12	1.00	Pass
	MCH	QPSK	RB1#0	23.38	-0.26	23.12	0.21	1.00	Pass
			RB1#13	23.16	-0.26	22.90	0.19	1.00	Pass
			RB1#24	23.28	-0.26	23.02	0.20	1.00	Pass
			RB12#0	22.16	-0.26	21.90	0.15	1.00	Pass
			RB12#6	22.12	-0.26	21.86	0.15	1.00	Pass
			RB12#13	22.14	-0.26	21.88	0.15	1.00	Pass
			RB25#0	22.1	-0.26	21.84	0.15	1.00	Pass
		16-QAM	RB1#0	22.86	-0.26	22.60	0.18	1.00	Pass
			RB1#13	22.75	-0.26	22.49	0.18	1.00	Pass
			RB1#24	22.73	-0.26	22.47	0.18	1.00	Pass
			RB12#0	21.13	-0.26	20.87	0.12	1.00	Pass
			RB12#6	21.08	-0.26	20.82	0.12	1.00	Pass
			RB12#13	21.13	-0.26	20.87	0.12	1.00	Pass
			RB25#0	21.19	-0.26	20.93	0.12	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
	HCH	QPSK	RB1#0	22.59	-0.26	22.33	0.17	1.00	Pass
			RB1#13	22.53	-0.26	22.27	0.17	1.00	Pass
			RB1#24	22.53	-0.26	22.27	0.17	1.00	Pass
			RB12#0	22.02	-0.26	21.76	0.15	1.00	Pass
			RB12#6	21.99	-0.26	21.73	0.15	1.00	Pass
			RB12#13	22.06	-0.26	21.80	0.15	1.00	Pass
			RB25#0	22.07	-0.26	21.81	0.15	1.00	Pass
		16-QAM	RB1#0	21.88	-0.26	21.62	0.15	1.00	Pass
			RB1#13	21.84	-0.26	21.58	0.14	1.00	Pass
			RB1#24	21.86	-0.26	21.60	0.14	1.00	Pass
			RB12#0	20.89	-0.26	20.63	0.12	1.00	Pass
			RB12#6	20.84	-0.26	20.58	0.11	1.00	Pass
			RB12#13	20.88	-0.26	20.62	0.12	1.00	Pass
			RB25#0	21.02	-0.26	20.76	0.12	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	23.12	-0.26	22.86	0.19	1.00	Pass
			RB1#25	23.26	-0.26	23.00	0.20	1.00	Pass
			RB1#49	22.99	-0.26	22.73	0.19	1.00	Pass
			RB25#0	22.28	-0.26	22.02	0.16	1.00	Pass
			RB25#13	22.33	-0.26	22.07	0.16	1.00	Pass
			RB25#25	22.25	-0.26	21.99	0.16	1.00	Pass
			RB50#0	22.25	-0.26	21.99	0.16	1.00	Pass
		16-QAM	RB1#0	22.22	-0.26	21.96	0.16	1.00	Pass
			RB1#25	22.71	-0.26	22.45	0.18	1.00	Pass
			RB1#49	22.6	-0.26	22.34	0.17	1.00	Pass
			RB25#0	21.04	-0.26	20.78	0.12	1.00	Pass
			RB25#13	21.03	-0.26	20.77	0.12	1.00	Pass
			RB25#25	21.03	-0.26	20.77	0.12	1.00	Pass
			RB50#0	21.02	-0.26	20.76	0.12	1.00	Pass
	MCH	QPSK	RB1#0	23.47	-0.26	23.21	0.21	1.00	Pass
			RB1#25	23.41	-0.26	23.15	0.21	1.00	Pass
			RB1#49	23.19	-0.26	22.93	0.20	1.00	Pass
			RB25#0	22.29	-0.26	22.03	0.16	1.00	Pass
			RB25#13	22.26	-0.26	22.00	0.16	1.00	Pass
			RB25#25	22.15	-0.26	21.89	0.15	1.00	Pass
			RB50#0	22.27	-0.26	22.01	0.16	1.00	Pass
		16-QAM	RB1#0	22.92	-0.26	22.66	0.18	1.00	Pass
			RB1#25	22.91	-0.26	22.65	0.18	1.00	Pass
			RB1#49	22.45	-0.26	22.19	0.17	1.00	Pass
			RB25#0	21.34	-0.26	21.08	0.13	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
			RB25#13	21.32	-0.26	21.06	0.13	1.00	Pass
			RB25#25	21.24	-0.26	20.98	0.13	1.00	Pass
			RB50#0	21.12	-0.26	20.86	0.12	1.00	Pass
	HCH	QPSK	RB1#0	23.29	-0.26	23.03	0.20	1.00	Pass
			RB1#25	23.41	-0.26	23.15	0.21	1.00	Pass
			RB1#49	23.19	-0.26	22.93	0.20	1.00	Pass
			RB25#0	22.2	-0.26	21.94	0.16	1.00	Pass
			RB25#13	22.16	-0.26	21.90	0.15	1.00	Pass
			RB25#25	22.09	-0.26	21.83	0.15	1.00	Pass
			RB50#0	22.13	-0.26	21.87	0.15	1.00	Pass
		16-QAM	RB1#0	22.42	-0.26	22.16	0.16	1.00	Pass
			RB1#25	22.27	-0.26	22.01	0.16	1.00	Pass
			RB1#49	22.23	-0.26	21.97	0.16	1.00	Pass
			RB25#0	21.37	-0.26	21.11	0.13	1.00	Pass
			RB25#13	21.33	-0.26	21.07	0.13	1.00	Pass
			RB25#25	21.25	-0.26	20.99	0.13	1.00	Pass
			RB50#0	21.17	-0.26	20.91	0.12	1.00	Pass
15 MHz	LCH	QPSK	RB1#0	23.16	-0.26	22.90	0.19	1.00	Pass
			RB1#38	23.05	-0.26	22.79	0.19	1.00	Pass
			RB1#74	23.06	-0.26	22.80	0.19	1.00	Pass
			RB36#0	22.24	-0.26	21.98	0.16	1.00	Pass
			RB36#19	22.26	-0.26	22.00	0.16	1.00	Pass
			RB36#39	22.15	-0.26	21.89	0.15	1.00	Pass
			RB75#0	22.11	-0.26	21.85	0.15	1.00	Pass
		16-QAM	RB1#0	22.32	-0.26	22.06	0.16	1.00	Pass
			RB1#38	22.15	-0.26	21.89	0.15	1.00	Pass
			RB1#74	22.68	-0.26	22.42	0.17	1.00	Pass
			RB36#0	21.29	-0.26	21.03	0.13	1.00	Pass
			RB36#19	21.3	-0.26	21.04	0.13	1.00	Pass
			RB36#39	21.18	-0.26	20.92	0.12	1.00	Pass
			RB75#0	21.25	-0.26	20.99	0.13	1.00	Pass
	MCH	QPSK	RB1#0	23.43	-0.26	23.17	0.21	1.00	Pass
			RB1#38	23.25	-0.26	22.99	0.20	1.00	Pass
			RB1#74	23.25	-0.26	22.99	0.20	1.00	Pass
			RB36#0	22.3	-0.26	22.04	0.16	1.00	Pass
			RB36#19	22.18	-0.26	21.92	0.16	1.00	Pass
			RB36#39	22.14	-0.26	21.88	0.15	1.00	Pass
			RB75#0	22.19	-0.26	21.93	0.16	1.00	Pass
		16-QAM	RB1#0	22.64	-0.26	22.38	0.17	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
			RB1#38	22.41	-0.26	22.15	0.16	1.00	Pass
			RB1#74	22.34	-0.26	22.08	0.16	1.00	Pass
			RB36#0	21.16	-0.26	20.90	0.12	1.00	Pass
			RB36#19	21.08	-0.26	20.82	0.12	1.00	Pass
			RB36#39	21.04	-0.26	20.78	0.12	1.00	Pass
			RB75#0	21.27	-0.26	21.01	0.13	1.00	Pass
	HCH	QPSK	RB1#0	23.42	-0.26	23.16	0.21	1.00	Pass
			RB1#38	23.01	-0.26	22.75	0.19	1.00	Pass
			RB1#74	23.12	-0.26	22.86	0.19	1.00	Pass
			RB36#0	22.37	-0.26	22.11	0.16	1.00	Pass
			RB36#19	22.13	-0.26	21.87	0.15	1.00	Pass
			RB36#39	22.09	-0.26	21.83	0.15	1.00	Pass
			RB75#0	22.25	-0.26	21.99	0.16	1.00	Pass
		16-QAM	RB1#0	23.06	-0.26	22.80	0.19	1.00	Pass
			RB1#38	22.73	-0.26	22.47	0.18	1.00	Pass
			RB1#74	22.89	-0.26	22.63	0.18	1.00	Pass
			RB36#0	21.42	-0.26	21.16	0.13	1.00	Pass
			RB36#19	21.01	-0.26	20.75	0.12	1.00	Pass
			RB36#39	20.96	-0.26	20.70	0.12	1.00	Pass
			RB75#0	21.24	-0.26	20.98	0.13	1.00	Pass
20 MHz	LCH	QPSK	RB1#0	23.22	-0.26	22.96	0.20	1.00	Pass
			RB1#50	23.35	-0.26	23.09	0.20	1.00	Pass
			RB1#99	23.43	-0.26	23.17	0.21	1.00	Pass
			RB50#0	22.38	-0.26	22.12	0.16	1.00	Pass
			RB50#25	22.28	-0.26	22.02	0.16	1.00	Pass
			RB50#50	22.18	-0.26	21.92	0.16	1.00	Pass
			RB100#0	22.25	-0.26	21.99	0.16	1.00	Pass
		16-QAM	RB1#0	23	-0.26	22.74	0.19	1.00	Pass
			RB1#50	22.98	-0.26	22.72	0.19	1.00	Pass
			RB1#99	22.81	-0.26	22.55	0.18	1.00	Pass
			RB50#0	21.33	-0.26	21.07	0.13	1.00	Pass
			RB50#25	21.22	-0.26	20.96	0.12	1.00	Pass
			RB50#50	21.15	-0.26	20.89	0.12	1.00	Pass
			RB100#0	21.21	-0.26	20.95	0.12	1.00	Pass
	MCH	QPSK	RB1#0	23.32	-0.26	23.06	0.20	1.00	Pass
			RB1#50	23.18	-0.26	22.92	0.20	1.00	Pass
			RB1#99	23.01	-0.26	22.75	0.19	1.00	Pass
			RB50#0	22.43	-0.26	22.17	0.16	1.00	Pass
			RB50#25	22.31	-0.26	22.05	0.16	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 4									
		16-QAM	RB50#50	22.2	-0.26	21.94	0.16	1.00	Pass
			RB100#0	22.34	-0.26	22.08	0.16	1.00	Pass
			RB1#0	22.54	-0.26	22.28	0.17	1.00	Pass
			RB1#50	22.54	-0.26	22.28	0.17	1.00	Pass
			RB1#99	22.03	-0.26	21.77	0.15	1.00	Pass
			RB50#0	21.26	-0.26	21.00	0.13	1.00	Pass
			RB50#25	21.26	-0.26	21.00	0.13	1.00	Pass
			RB50#50	21.26	-0.26	21.00	0.13	1.00	Pass
			RB100#0	21.12	-0.26	20.86	0.12	1.00	Pass
	HCH	QPSK	RB1#0	23.49	-0.26	23.23	0.21	1.00	Pass
			RB1#50	23.1	-0.26	22.84	0.19	1.00	Pass
			RB1#99	22.87	-0.26	22.61	0.18	1.00	Pass
			RB50#0	22.5	-0.26	22.24	0.17	1.00	Pass
			RB50#25	22.28	-0.26	22.02	0.16	1.00	Pass
			RB50#50	22.17	-0.26	21.91	0.16	1.00	Pass
			RB100#0	22.41	-0.26	22.15	0.16	1.00	Pass
		16-QAM	RB1#0	23.06	-0.26	22.80	0.19	1.00	Pass
			RB1#50	22.42	-0.26	22.16	0.16	1.00	Pass
			RB1#99	22.1	-0.26	21.84	0.15	1.00	Pass
			RB50#0	21.43	-0.26	21.17	0.13	1.00	Pass
			RB50#25	21.23	-0.26	20.97	0.13	1.00	Pass
			RB50#50	21.14	-0.26	20.88	0.12	1.00	Pass
			RB100#0	21.31	-0.26	21.05	0.13	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
1.4 MHz	LCH	QPSK	RB1#0	23.13	-0.71	22.42	0.17	7.00	Pass
			RB1#3	23.05	-0.71	22.34	0.17	7.00	Pass
			RB1#5	22.96	-0.71	22.25	0.17	7.00	Pass
			RB3#0	22.96	-0.71	22.25	0.17	7.00	Pass
			RB3#2	23.01	-0.71	22.30	0.17	7.00	Pass
			RB3#3	22.93	-0.71	22.22	0.17	7.00	Pass
			RB6#0	22.14	-0.71	21.43	0.14	7.00	Pass
		16-QAM	RB1#0	22.79	-0.71	22.08	0.16	7.00	Pass
			RB1#3	22.74	-0.71	22.03	0.16	7.00	Pass
			RB1#5	22.68	-0.71	21.97	0.16	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
			RB3#0	22.28	-0.71	21.57	0.14	7.00	Pass
			RB3#2	22.2	-0.71	21.49	0.14	7.00	Pass
			RB3#3	21.76	-0.71	21.05	0.13	7.00	Pass
			RB6#0	20.98	-0.71	20.27	0.11	7.00	Pass
	MCH	QPSK	RB1#0	23.12	-0.71	22.41	0.17	7.00	Pass
			RB1#3	23.41	-0.71	22.70	0.19	7.00	Pass
			RB1#5	23.25	-0.71	22.54	0.18	7.00	Pass
			RB3#0	23.2	-0.71	22.49	0.18	7.00	Pass
			RB3#2	23.35	-0.71	22.64	0.18	7.00	Pass
			RB3#3	23.24	-0.71	22.53	0.18	7.00	Pass
			RB6#0	22.3	-0.71	21.59	0.14	7.00	Pass
		16-QAM	RB1#0	22.46	-0.71	21.75	0.15	7.00	Pass
			RB1#3	22.52	-0.71	21.81	0.15	7.00	Pass
			RB1#5	22.56	-0.71	21.85	0.15	7.00	Pass
			RB3#0	22.05	-0.71	21.34	0.14	7.00	Pass
			RB3#2	22.21	-0.71	21.50	0.14	7.00	Pass
			RB3#3	21.99	-0.71	21.28	0.13	7.00	Pass
			RB6#0	20.8	-0.71	20.09	0.10	7.00	Pass
	HCH	QPSK	RB1#0	23.03	-0.71	22.32	0.17	7.00	Pass
			RB1#3	23.18	-0.71	22.47	0.18	7.00	Pass
			RB1#5	23.04	-0.71	22.33	0.17	7.00	Pass
			RB3#0	22.96	-0.71	22.25	0.17	7.00	Pass
			RB3#2	22.93	-0.71	22.22	0.17	7.00	Pass
			RB3#3	22.9	-0.71	22.19	0.17	7.00	Pass
			RB6#0	22.11	-0.71	21.40	0.14	7.00	Pass
		16-QAM	RB1#0	22.2	-0.71	21.49	0.14	7.00	Pass
			RB1#3	22.26	-0.71	21.55	0.14	7.00	Pass
			RB1#5	22.24	-0.71	21.53	0.14	7.00	Pass
			RB3#0	22.12	-0.71	21.41	0.14	7.00	Pass
			RB3#2	22.22	-0.71	21.51	0.14	7.00	Pass
			RB3#3	22.19	-0.71	21.48	0.14	7.00	Pass
			RB6#0	21.25	-0.71	20.54	0.11	7.00	Pass
3 MHz	LCH	QPSK	RB1#0	23.26	-0.71	22.55	0.18	7.00	Pass
			RB1#7	22.99	-0.71	22.28	0.17	7.00	Pass
			RB1#14	23.14	-0.71	22.43	0.17	7.00	Pass
			RB8#0	22.19	-0.71	21.48	0.14	7.00	Pass
			RB8#4	21.99	-0.71	21.28	0.13	7.00	Pass
			RB8#7	21.97	-0.71	21.26	0.13	7.00	Pass
			RB15#0	22.1	-0.71	21.39	0.14	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
		16-QAM	RB1#0	22.22	-0.71	21.51	0.14	7.00	Pass
			RB1#7	21.88	-0.71	21.17	0.13	7.00	Pass
			RB1#14	21.9	-0.71	21.19	0.13	7.00	Pass
			RB8#0	21.38	-0.71	20.67	0.12	7.00	Pass
			RB8#4	21.24	-0.71	20.53	0.11	7.00	Pass
			RB8#7	21.14	-0.71	20.43	0.11	7.00	Pass
			RB15#0	21.19	-0.71	20.48	0.11	7.00	Pass
	MCH	QPSK	RB1#0	23.52	-0.71	22.81	0.19	7.00	Pass
			RB1#7	23.48	-0.71	22.77	0.19	7.00	Pass
			RB1#14	23.54	-0.71	22.83	0.19	7.00	Pass
			RB8#0	22.21	-0.71	21.50	0.14	7.00	Pass
			RB8#4	22.26	-0.71	21.55	0.14	7.00	Pass
			RB8#7	22.21	-0.71	21.50	0.14	7.00	Pass
			RB15#0	22.26	-0.71	21.55	0.14	7.00	Pass
		16-QAM	RB1#0	22.82	-0.71	22.11	0.16	7.00	Pass
			RB1#7	22.6	-0.71	21.89	0.15	7.00	Pass
			RB1#14	22.62	-0.71	21.91	0.16	7.00	Pass
			RB8#0	21.33	-0.71	20.62	0.12	7.00	Pass
			RB8#4	21.29	-0.71	20.58	0.11	7.00	Pass
			RB8#7	21.24	-0.71	20.53	0.11	7.00	Pass
			RB15#0	21.14	-0.71	20.43	0.11	7.00	Pass
	HCH	QPSK	RB1#0	23.12	-0.71	22.41	0.17	7.00	Pass
			RB1#7	23.13	-0.71	22.42	0.17	7.00	Pass
			RB1#14	23.27	-0.71	22.56	0.18	7.00	Pass
			RB8#0	22.16	-0.71	21.45	0.14	7.00	Pass
			RB8#4	22.04	-0.71	21.33	0.14	7.00	Pass
			RB8#7	22.13	-0.71	21.42	0.14	7.00	Pass
			RB15#0	22.1	-0.71	21.39	0.14	7.00	Pass
		16-QAM	RB1#0	22.12	-0.71	21.41	0.14	7.00	Pass
			RB1#7	22.03	-0.71	21.32	0.14	7.00	Pass
			RB1#14	22.2	-0.71	21.49	0.14	7.00	Pass
			RB8#0	21.17	-0.71	20.46	0.11	7.00	Pass
			RB8#4	21.26	-0.71	20.55	0.11	7.00	Pass
			RB8#7	21.22	-0.71	20.51	0.11	7.00	Pass
			RB15#0	21.12	-0.71	20.41	0.11	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	23.02	-0.71	22.31	0.17	7.00	Pass
			RB1#13	22.95	-0.71	22.24	0.17	7.00	Pass
			RB1#24	22.92	-0.71	22.21	0.17	7.00	Pass
			RB12#0	22.09	-0.71	21.38	0.14	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
			RB12#6	22	-0.71	21.29	0.13	7.00	Pass
			RB12#13	22.01	-0.71	21.30	0.13	7.00	Pass
			RB25#0	22.07	-0.71	21.36	0.14	7.00	Pass
		16-QAM	RB1#0	22.15	-0.71	21.44	0.14	7.00	Pass
			RB1#13	21.57	-0.71	20.86	0.12	7.00	Pass
			RB1#24	21.53	-0.71	20.82	0.12	7.00	Pass
			RB12#0	20.94	-0.71	20.23	0.11	7.00	Pass
			RB12#6	20.95	-0.71	20.24	0.11	7.00	Pass
			RB12#13	20.88	-0.71	20.17	0.10	7.00	Pass
			RB25#0	21.06	-0.71	20.35	0.11	7.00	Pass
	MCH	QPSK	RB1#0	22.9	-0.71	22.19	0.17	7.00	Pass
			RB1#13	23.07	-0.71	22.36	0.17	7.00	Pass
			RB1#24	22.98	-0.71	22.27	0.17	7.00	Pass
			RB12#0	22.14	-0.71	21.43	0.14	7.00	Pass
			RB12#6	22.27	-0.71	21.56	0.14	7.00	Pass
			RB12#13	22.22	-0.71	21.51	0.14	7.00	Pass
			RB25#0	22.21	-0.71	21.50	0.14	7.00	Pass
		16-QAM	RB1#0	22.7	-0.71	21.99	0.16	7.00	Pass
			RB1#13	22.07	-0.71	21.36	0.14	7.00	Pass
			RB1#24	22.04	-0.71	21.33	0.14	7.00	Pass
			RB12#0	20.98	-0.71	20.27	0.11	7.00	Pass
			RB12#6	21.24	-0.71	20.53	0.11	7.00	Pass
			RB12#13	21.21	-0.71	20.50	0.11	7.00	Pass
			RB25#0	21.17	-0.71	20.46	0.11	7.00	Pass
	HCH	QPSK	RB1#0	23.08	-0.71	22.37	0.17	7.00	Pass
			RB1#13	23.13	-0.71	22.42	0.17	7.00	Pass
			RB1#24	23.4	-0.71	22.69	0.19	7.00	Pass
			RB12#0	22.09	-0.71	21.38	0.14	7.00	Pass
			RB12#6	21.98	-0.71	21.27	0.13	7.00	Pass
			RB12#13	22.19	-0.71	21.48	0.14	7.00	Pass
			RB25#0	22.15	-0.71	21.44	0.14	7.00	Pass
		16-QAM	RB1#0	22.31	-0.71	21.60	0.14	7.00	Pass
			RB1#13	22.04	-0.71	21.33	0.14	7.00	Pass
			RB1#24	22.42	-0.71	21.71	0.15	7.00	Pass
			RB12#0	21.12	-0.71	20.41	0.11	7.00	Pass
			RB12#6	21.05	-0.71	20.34	0.11	7.00	Pass
			RB12#13	21.11	-0.71	20.40	0.11	7.00	Pass
			RB25#0	20.96	-0.71	20.25	0.11	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	23.27	-0.71	22.56	0.18	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
			RB1#25	23.1	-0.71	22.39	0.17	7.00	Pass
			RB1#49	23.1	-0.71	22.39	0.17	7.00	Pass
			RB25#0	22.03	-0.71	21.32	0.14	7.00	Pass
			RB25#13	21.96	-0.71	21.25	0.13	7.00	Pass
			RB25#25	22.02	-0.71	21.31	0.14	7.00	Pass
			RB50#0	22.1	-0.71	21.39	0.14	7.00	Pass
		16-QAM	RB1#0	22.21	-0.71	21.50	0.14	7.00	Pass
			RB1#25	21.99	-0.71	21.28	0.13	7.00	Pass
			RB1#49	21.75	-0.71	21.04	0.13	7.00	Pass
			RB25#0	20.99	-0.71	20.28	0.11	7.00	Pass
			RB25#13	20.94	-0.71	20.23	0.11	7.00	Pass
			RB25#25	20.9	-0.71	20.19	0.10	7.00	Pass
			RB50#0	20.98	-0.71	20.27	0.11	7.00	Pass
	MCH	QPSK	RB1#0	23.04	-0.71	22.33	0.17	7.00	Pass
			RB1#25	23.44	-0.71	22.73	0.19	7.00	Pass
			RB1#49	23.04	-0.71	22.33	0.17	7.00	Pass
			RB25#0	22.02	-0.71	21.31	0.14	7.00	Pass
			RB25#13	22.27	-0.71	21.56	0.14	7.00	Pass
			RB25#25	22.22	-0.71	21.51	0.14	7.00	Pass
			RB50#0	22.14	-0.71	21.43	0.14	7.00	Pass
		16-QAM	RB1#0	22.27	-0.71	21.56	0.14	7.00	Pass
			RB1#25	22.74	-0.71	22.03	0.16	7.00	Pass
			RB1#49	22.13	-0.71	21.42	0.14	7.00	Pass
			RB25#0	21.41	-0.71	20.70	0.12	7.00	Pass
			RB25#13	21.15	-0.71	20.44	0.11	7.00	Pass
			RB25#25	21.1	-0.71	20.39	0.11	7.00	Pass
			RB50#0	21.2	-0.71	20.49	0.11	7.00	Pass
	HCH	QPSK	RB1#0	23.49	-0.71	22.78	0.19	1.00	Pass
			RB1#25	22.88	-0.71	22.17	0.16	7.00	Pass
			RB1#49	22.98	-0.71	22.27	0.17	7.00	Pass
			RB25#0	22.2	-0.71	21.49	0.14	7.00	Pass
			RB25#13	22.32	-0.71	21.61	0.14	7.00	Pass
			RB25#25	21.98	-0.71	21.27	0.13	7.00	Pass
			RB50#0	22.08	-0.71	21.37	0.14	7.00	Pass
		16-QAM	RB1#0	22.5	-0.71	21.79	0.15	7.00	Pass
			RB1#25	21.91	-0.71	21.20	0.13	7.00	Pass
			RB1#49	22.23	-0.71	21.52	0.14	7.00	Pass
			RB25#0	21.34	-0.71	20.63	0.12	7.00	Pass
			RB25#13	21.28	-0.71	20.57	0.11	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND 5									
			RB25#25	21.14	-0.71	20.43	0.11	7.00	Pass
			RB50#0	21.18	-0.71	20.47	0.11	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
5 MHz	LCH	QPSK	RB1#0	23.58	-0.32	23.26	0.21	2.00	Pass
			RB1#13	23.55	-0.32	23.23	0.21	2.00	Pass
			RB1#24	23.66	-0.32	23.34	0.22	2.00	Pass
			RB12#0	22.63	-0.32	22.31	0.17	2.00	Pass
			RB12#6	22.63	-0.32	22.31	0.17	2.00	Pass
			RB12#13	22.65	-0.32	22.33	0.17	2.00	Pass
			RB25#0	22.7	-0.32	22.38	0.17	2.00	Pass
		16-QAM	RB1#0	22.58	-0.32	22.26	0.17	2.00	Pass
			RB1#13	22.67	-0.32	22.35	0.17	2.00	Pass
			RB1#24	22.61	-0.32	22.29	0.17	2.00	Pass
			RB12#0	21.6	-0.32	21.28	0.13	2.00	Pass
			RB12#6	21.55	-0.32	21.23	0.13	2.00	Pass
			RB12#13	21.58	-0.32	21.26	0.13	2.00	Pass
			RB25#0	21.58	-0.32	21.26	0.13	2.00	Pass
	MCH	QPSK	RB1#0	23.71	-0.32	23.39	0.22	2.00	Pass
			RB1#13	23.63	-0.32	23.31	0.21	2.00	Pass
			RB1#24	23.73	-0.32	23.41	0.22	2.00	Pass
			RB12#0	22.64	-0.32	22.32	0.17	2.00	Pass
			RB12#6	22.59	-0.32	22.27	0.17	2.00	Pass
			RB12#13	22.53	-0.32	22.21	0.17	2.00	Pass
			RB25#0	22.56	-0.32	22.24	0.17	2.00	Pass
		16-QAM	RB1#0	23.21	-0.32	22.89	0.19	2.00	Pass
			RB1#13	23.04	-0.32	22.72	0.19	2.00	Pass
			RB1#24	23.03	-0.32	22.71	0.19	2.00	Pass
			RB12#0	21.6	-0.32	21.28	0.13	2.00	Pass
			RB12#6	21.47	-0.32	21.15	0.13	2.00	Pass
			RB12#13	21.53	-0.32	21.21	0.13	2.00	Pass
			RB25#0	21.58	-0.32	21.26	0.13	2.00	Pass
	HCH	QPSK	RB1#0	23.2	-0.32	22.88	0.19	2.00	Pass
			RB1#13	23.1	-0.32	22.78	0.19	2.00	Pass
			RB1#24	23.02	-0.32	22.70	0.19	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
			RB12#0	22.34	-0.32	22.02	0.16	2.00	Pass
			RB12#6	22.25	-0.32	21.93	0.16	2.00	Pass
			RB12#13	22.21	-0.32	21.89	0.15	2.00	Pass
			RB25#0	22.32	-0.32	22.00	0.16	2.00	Pass
		16-QAM	RB1#0	22.55	-0.32	22.23	0.17	2.00	Pass
			RB1#13	22.08	-0.32	21.76	0.15	2.00	Pass
			RB1#24	22.11	-0.32	21.79	0.15	2.00	Pass
			RB12#0	21.31	-0.32	20.99	0.13	2.00	Pass
			RB12#6	21.05	-0.32	20.73	0.12	2.00	Pass
			RB12#13	21.06	-0.32	20.74	0.12	2.00	Pass
			RB25#0	21.39	-0.32	21.07	0.13	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	23.85	-0.32	23.53	0.23	2.00	Pass
			RB1#25	24.17	-0.32	23.85	0.24	2.00	Pass
			RB1#49	24.04	-0.32	23.72	0.24	2.00	Pass
			RB25#0	22.63	-0.32	22.31	0.17	2.00	Pass
			RB25#13	22.66	-0.32	22.34	0.17	2.00	Pass
			RB25#25	22.7	-0.32	22.38	0.17	2.00	Pass
			RB50#0	22.68	-0.32	22.36	0.17	2.00	Pass
		16-QAM	RB1#0	22.68	-0.32	22.36	0.17	2.00	Pass
			RB1#25	22.67	-0.32	22.35	0.17	2.00	Pass
			RB1#49	22.61	-0.32	22.29	0.17	2.00	Pass
			RB25#0	21.65	-0.32	21.33	0.14	2.00	Pass
			RB25#13	21.62	-0.32	21.30	0.13	2.00	Pass
			RB25#25	21.6	-0.32	21.28	0.13	2.00	Pass
			RB50#0	21.57	-0.32	21.25	0.13	2.00	Pass
	MCH	QPSK	RB1#0	23.88	-0.32	23.56	0.23	2.00	Pass
			RB1#25	23.89	-0.32	23.57	0.23	2.00	Pass
			RB1#49	23.57	-0.32	23.25	0.21	2.00	Pass
			RB25#0	22.74	-0.32	22.42	0.17	2.00	Pass
			RB25#13	22.62	-0.32	22.30	0.17	2.00	Pass
			RB25#25	22.52	-0.32	22.20	0.17	2.00	Pass
			RB50#0	22.6	-0.32	22.28	0.17	2.00	Pass
		16-QAM	RB1#0	22.91	-0.32	22.59	0.18	2.00	Pass
			RB1#25	23.11	-0.32	22.79	0.19	2.00	Pass
			RB1#49	22.75	-0.32	22.43	0.17	2.00	Pass
			RB25#0	21.58	-0.32	21.26	0.13	2.00	Pass
			RB25#13	21.58	-0.32	21.26	0.13	2.00	Pass
			RB25#25	21.54	-0.32	21.22	0.13	2.00	Pass
			RB50#0	21.55	-0.32	21.23	0.13	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
	HCH	QPSK	RB1#0	23.64	-0.32	23.32	0.21	2.00	Pass
			RB1#25	23.61	-0.32	23.29	0.21	2.00	Pass
			RB1#49	23.05	-0.32	22.73	0.19	2.00	Pass
			RB25#0	22.54	-0.32	22.22	0.17	2.00	Pass
			RB25#13	22.42	-0.32	22.10	0.16	2.00	Pass
			RB25#25	22.21	-0.32	21.89	0.15	2.00	Pass
			RB50#0	22.39	-0.32	22.07	0.16	2.00	Pass
		16-QAM	RB1#0	22.82	-0.32	22.50	0.18	2.00	Pass
			RB1#25	22.63	-0.32	22.31	0.17	2.00	Pass
			RB1#49	22.19	-0.32	21.87	0.15	2.00	Pass
			RB25#0	21.63	-0.32	21.31	0.14	2.00	Pass
			RB25#13	21.47	-0.32	21.15	0.13	2.00	Pass
			RB25#25	21.17	-0.32	20.85	0.12	2.00	Pass
			RB50#0	21.4	-0.32	21.08	0.13	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	23.99	-0.32	23.67	0.23	2.00	Pass
			RB1#38	23.66	-0.32	23.34	0.22	2.00	Pass
			RB1#74	23.8	-0.32	23.48	0.22	2.00	Pass
			RB36#0	22.69	-0.32	22.37	0.17	2.00	Pass
			RB36#19	22.74	-0.32	22.42	0.17	2.00	Pass
			RB36#39	22.76	-0.32	22.44	0.18	2.00	Pass
			RB75#0	22.71	-0.32	22.39	0.17	2.00	Pass
		16-QAM	RB1#0	22.94	-0.32	22.62	0.18	2.00	Pass
			RB1#38	22.72	-0.32	22.40	0.17	2.00	Pass
			RB1#74	22.76	-0.32	22.44	0.18	2.00	Pass
			RB36#0	21.72	-0.32	21.40	0.14	2.00	Pass
			RB36#19	21.68	-0.32	21.36	0.14	2.00	Pass
			RB36#39	21.59	-0.32	21.27	0.13	2.00	Pass
			RB75#0	21.66	-0.32	21.34	0.14	2.00	Pass
	MCH	QPSK	RB1#0	24.03	-0.32	23.71	0.23	2.00	Pass
			RB1#38	23.63	-0.32	23.31	0.21	2.00	Pass
			RB1#74	23.76	-0.32	23.44	0.22	2.00	Pass
			RB36#0	22.82	-0.32	22.50	0.18	2.00	Pass
			RB36#19	22.66	-0.32	22.34	0.17	2.00	Pass
			RB36#39	22.62	-0.32	22.30	0.17	2.00	Pass
			RB75#0	22.7	-0.32	22.38	0.17	2.00	Pass
		16-QAM	RB1#0	23.16	-0.32	22.84	0.19	2.00	Pass
			RB1#38	22.88	-0.32	22.56	0.18	2.00	Pass
			RB1#74	22.94	-0.32	22.62	0.18	2.00	Pass
			RB36#0	21.79	-0.32	21.47	0.14	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
	HCH		RB36#19	21.71	-0.32	21.39	0.14	2.00	Pass
			RB36#39	21.73	-0.32	21.41	0.14	2.00	Pass
			RB75#0	21.66	-0.32	21.34	0.14	2.00	Pass
		QPSK	RB1#0	23.83	-0.32	23.51	0.22	2.00	Pass
			RB1#38	23.35	-0.32	23.03	0.20	2.00	Pass
			RB1#74	23.23	-0.32	22.91	0.20	2.00	Pass
			RB36#0	22.75	-0.32	22.43	0.17	2.00	Pass
			RB36#19	22.56	-0.32	22.24	0.17	2.00	Pass
			RB36#39	22.27	-0.32	21.95	0.16	2.00	Pass
			RB75#0	22.51	-0.32	22.19	0.17	2.00	Pass
		16-QAM	RB1#0	23.16	-0.32	22.84	0.19	2.00	Pass
			RB1#38	22.91	-0.32	22.59	0.18	2.00	Pass
			RB1#74	22.81	-0.32	22.49	0.18	2.00	Pass
			RB36#0	21.76	-0.32	21.44	0.14	2.00	Pass
			RB36#19	21.5	-0.32	21.18	0.13	2.00	Pass
			RB36#39	21.22	-0.32	20.90	0.12	2.00	Pass
			RB75#0	21.4	-0.32	21.08	0.13	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	23.7	-0.32	23.38	0.22	2.00	Pass
			RB1#50	23.84	-0.32	23.52	0.22	2.00	Pass
			RB1#99	23.53	-0.32	23.21	0.21	2.00	Pass
			RB50#0	22.72	-0.32	22.40	0.17	2.00	Pass
			RB50#25	22.74	-0.32	22.42	0.17	2.00	Pass
			RB50#50	22.63	-0.32	22.31	0.17	2.00	Pass
			RB100#0	22.74	-0.32	22.42	0.17	2.00	Pass
		16-QAM	RB1#0	22.84	-0.32	22.52	0.18	2.00	Pass
			RB1#50	23.36	-0.32	23.04	0.20	2.00	Pass
			RB1#99	23.13	-0.32	22.81	0.19	2.00	Pass
			RB50#0	21.73	-0.32	21.41	0.14	2.00	Pass
			RB50#25	21.58	-0.32	21.26	0.13	2.00	Pass
			RB50#50	21.49	-0.32	21.17	0.13	2.00	Pass
			RB100#0	21.58	-0.32	21.26	0.13	2.00	Pass
	MCH	QPSK	RB1#0	23.67	-0.32	23.35	0.22	2.00	Pass
			RB1#50	23.56	-0.32	23.24	0.21	2.00	Pass
			RB1#99	23.6	-0.32	23.28	0.21	2.00	Pass
			RB50#0	22.79	-0.32	22.47	0.18	2.00	Pass
			RB50#25	22.68	-0.32	22.36	0.17	2.00	Pass
			RB50#50	22.6	-0.32	22.28	0.17	2.00	Pass
			RB100#0	22.69	-0.32	22.37	0.17	2.00	Pass
		16-QAM	RB1#0	23.13	-0.32	22.81	0.19	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
			RB1#50	22.96	-0.32	22.64	0.18	2.00	Pass
			RB1#99	22.83	-0.32	22.51	0.18	2.00	Pass
			RB50#0	21.79	-0.32	21.47	0.14	2.00	Pass
			RB50#25	21.67	-0.32	21.35	0.14	2.00	Pass
			RB50#50	21.62	-0.32	21.30	0.13	2.00	Pass
			RB100#0	21.69	-0.32	21.37	0.14	2.00	Pass
	HCH	QPSK	RB1#0	23.94	-0.32	23.62	0.23	2.00	Pass
			RB1#50	23.6	-0.32	23.28	0.21	2.00	Pass
			RB1#99	23.14	-0.32	22.82	0.19	2.00	Pass
			RB50#0	22.86	-0.32	22.54	0.18	2.00	Pass
			RB50#25	22.66	-0.32	22.34	0.17	2.00	Pass
			RB50#50	22.46	-0.32	22.14	0.16	2.00	Pass
			RB100#0	22.79	-0.32	22.47	0.18	2.00	Pass
		16-QAM	RB1#0	23.35	-0.32	23.03	0.20	2.00	Pass
			RB1#50	22.92	-0.32	22.60	0.18	2.00	Pass
			RB1#99	22.54	-0.32	22.22	0.17	2.00	Pass
			RB50#0	21.78	-0.32	21.46	0.14	2.00	Pass
			RB50#25	21.48	-0.32	21.16	0.13	2.00	Pass
			RB50#50	21.37	-0.32	21.05	0.13	2.00	Pass
			RB100#0	21.68	-0.32	21.36	0.14	2.00	Pass

A.2 Peak to Average Ratio

Note: Test plots please refer to the document “Annex No.: BL-SZ1660057-501 Data Part 1.pdf”.

LTE Test Data

Test Band	Test Bandwidth	Test Channel	Test Model	Test RB(Size#Offset)	Peak to Average ratio (dBm)	Limit (dBm)	Refer to Plot ^{Note}	Verdict
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	3.71	13	1.1	Pass
				RB100#0	4.75	13	1.2	Pass
			16-QAM	RB1#0	4.46	13	1.3	Pass
				RB100#0	5.68	13	1.4	Pass
		MCH	QPSK	RB1#0	4.38	13	1.5	Pass
				RB100#0	4.75	13	1.6	Pass
			16-QAM	RB1#0	5.25	13	1.7	Pass
				RB100#0	5.74	13	1.8	Pass
		HCH	QPSK	RB1#0	4.03	13	1.9	Pass
				RB100#0	4.43	13	1.10	Pass
			16-QAM	RB1#0	4.96	13	1.11	Pass
				RB100#0	5.36	13	1.12	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	4.41	13	2.1	Pass
				RB50#0	5.13	13	2.2	Pass
			16-QAM	RB1#0	5.25	13	2.3	Pass
				RB50#0	6.00	13	2.4	Pass
		MCH	QPSK	RB1#0	4.87	13	2.5	Pass
				RB50#0	5.33	13	2.6	Pass
			16-QAM	RB1#0	5.80	13	2.7	Pass
				RB50#0	6.29	13	2.8	Pass
		HCH	QPSK	RB1#0	4.72	13	2.9	Pass
				RB50#0	4.93	13	2.10	Pass
			16-QAM	RB1#0	5.59	13	2.11	Pass
				RB50#0	5.86	13	2.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	3.45	13	3.1	Pass
				RB100#0	4.55	13	3.2	Pass
			16-QAM	RB1#0	4.23	13	3.3	Pass
				RB100#0	5.48	13	3.4	Pass
		MCH	QPSK	RB1#0	3.62	13	3.5	Pass
				RB100#0	4.55	13	3.6	Pass
			16-QAM	RB1#0	4.46	13	3.7	Pass
				RB100#0	5.45	13	3.8	Pass
		HCH	QPSK	RB1#0	3.97	13	3.9	Pass
				RB100#0	4.35	13	3.10	Pass
			16-QAM	RB1#0	4.84	13	3.11	Pass
				RB100#0	5.33	13	3.12	Pass

A.3 Occupied Bandwidth

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

Note 2: Test plots please refer to the document “Annex No.: BL-SZ1660057-501 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 Plot ^{Note 2}
Band 4	1.4 MHz	MCH	QPSK	RB6#0	1.19	1.45	1.1
		MCH	16-QAM	RB6#0	1.17	1.41	1.2
	3 MHz	MCH	QPSK	RB15#0	2.74	3.06	1.3
		MCH	16-QAM	RB15#0	2.73	3.05	1.4
	5 MHz	MCH	QPSK	RB25#0	4.51	5.04	1.5
		MCH	16-QAM	RB25#0	4.53	5.05	1.6
	10 MHz	MCH	QPSK	RB50#0	8.92	9.71	1.7
		MCH	16-QAM	RB50#0	8.93	9.69	1.8
	15 MHz	MCH	QPSK	RB75#0	13.37	14.35	1.9
		MCH	16-QAM	RB75#0	13.39	14.33	1.10
Band 5	1.4 MHz	MCH	QPSK	RB6#0	1.18	1.43	2.1
		MCH	16-QAM	RB6#0	1.16	1.4	2.2
	3 MHz	MCH	QPSK	RB15#0	2.73	3.04	2.3
		MCH	16-QAM	RB15#0	2.73	3.06	2.4
	5 MHz	MCH	QPSK	RB25#0	4.5	5.01	2.5
		MCH	16-QAM	RB25#0	4.51	5	2.6
	10 MHz	MCH	QPSK	RB50#0	8.93	9.66	2.7
		MCH	16-QAM	RB50#0	8.93	9.70	2.8
Band 7	5 MHz	MCH	QPSK	RB25#0	4.51	5.06	3.1
		MCH	16-QAM	RB25#0	4.52	5.03	3.2
	10 MHz	MCH	QPSK	RB50#0	8.94	9.78	3.3
		MCH	16-QAM	RB50#0	8.93	9.68	3.4
	15 MHz	MCH	QPSK	RB75#0	13.38	14.36	3.5
		MCH	16-QAM	RB75#0	13.39	14.35	3.6
	20 MHz	MCH	QPSK	RB100#0	17.84	18.92	3.7
		MCH	16-QAM	RB100#0	17.85	18.95	3.8

A.4 Frequency Stability

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	0.03	±4331.25	Pass
	-5	0.2		
	0	1.2		
	+5	1.34		
	+10	-0.89		
	+20	0.7		
	+30	-3.65		
	+40	-2.78		
	+45	-4.62		
	+50	-3.28		
	+55	-4.16		
4.35	+25	-2.76	±4331.25	Pass
3.6	+25	0.27		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	0.2	±4331.25	Pass
	-5	1.67		
	0	1.16		
	+5	-0.26		
	+10	-0.09		
	+20	-0.3		
	+30	0.23		
	+40	-0.4		
	+45	0.69		
	+50	-0.29		
	+55	-0.68		
4.35	+25	0.7	±4331.25	Pass
3.6	+25	1.76		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-1.17	±2086.25	Pass
	-5	-1.77		
	0	-1.66		
	+5	-0.64		
	+10	0.14		
	+20	0.2		
	+30	0.01		
	+40	-0.86		
	+45	-0.64		
	+50	-0.94		
	+55	-0.10		
4.35	+25	-1.24		
3.6	+25	-1.36		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-0.72	±2086.25	Pass
	-5	-1.3		
	0	-1.52		
	+5	-0.64		
	+10	-0.26		
	+20	-0.83		
	+30	-0.57		
	+40	-0.56		
	+45	-0.44		
	+50	-0.64		
	+55	-0.71		
4.35	+25	-0.47		
3.6	+25	-1.35		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	0.92	±6337.5	Pass
	-5	-4.48		
	0	-2.05		
	+5	-1.63		
	+10	0.13		
	+20	-2.22		
	+30	-4.08		
	+40	-4.71		
	+45	-3.21		
	+50	-3.57		
	+55	-4.02		
4.35	+25	-0.94		
3.6	+25	1.3		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-2.8	±6337.5	Pass
	-5	1.14		
	0	2.25		
	+5	-4.42		
	+10	-3.08		
	+20	2.99		
	+30	2.25		
	+40	-1.08		
	+45	-2.91		
	+50	-3.01		
	+55	-1.28		
4.35	+25	3.15		
3.6	+25	2.55		

A.5 Spurious Emission at Antenna Terminals

Note 1: The frequency of verdict which mark by "N/A" should be ignored because they are MS carrier frequency.

Note 2: Test plots please refer to the document "Annex No.: BL-SZ1660057-501 Data Part 3.pdf".

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note 2}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	1.1	Pass
			16-QAM	RB1#0	1.2	Pass
		MCH	QPSK	RB1#0	1.3	Pass
			16-QAM	RB1#0	1.4	Pass
		HCH	QPSK	RB1#0	1.5	Pass
			16-QAM	RB1#0	1.6	Pass
	3 MHz	LCH	QPSK	RB1#0	1.7	Pass
			16-QAM	RB1#0	1.8	Pass
		MCH	QPSK	RB1#0	1.9	Pass
			16-QAM	RB1#0	1.10	Pass
		HCH	QPSK	RB1#0	1.11	Pass
			16-QAM	RB1#0	1.12	Pass
	5 MHz	LCH	QPSK	RB1#0	1.13	Pass
			16-QAM	RB1#0	1.14	Pass
		MCH	QPSK	RB1#0	1.15	Pass
			16-QAM	RB1#0	1.16	Pass
		HCH	QPSK	RB1#0	1.17	Pass
			16-QAM	RB1#0	1.18	Pass
	10 MHz	LCH	QPSK	RB1#0	1.19	Pass
			16-QAM	RB1#0	1.20	Pass
		MCH	QPSK	RB1#0	1.21	Pass
			16-QAM	RB1#0	1.22	Pass
		HCH	QPSK	RB1#0	1.23	Pass
			16-QAM	RB1#0	1.24	Pass
	15 MHz	LCH	QPSK	RB1#0	1.25	Pass
			16-QAM	RB1#0	1.26	Pass
		MCH	QPSK	RB1#0	1.27	Pass
			16-QAM	RB1#0	1.28	Pass
		HCH	QPSK	RB1#0	1.29	Pass
			16-QAM	RB1#0	1.30	Pass
	20 MHz	LCH	QPSK	RB1#0	1.31	Pass
			16-QAM	RB1#0	1.32	Pass
		MCH	QPSK	RB1#0	1.33	Pass
			16-QAM	RB1#0	1.34	Pass
		HCH	QPSK	RB1#0	1.35	Pass
			16-QAM	RB1#0	1.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note 2}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	2.1	Pass
			16-QAM	RB1#0	2.2	Pass
		MCH	QPSK	RB1#0	2.3	Pass
			16-QAM	RB1#0	2.4	Pass
		HCH	QPSK	RB1#0	2.5	Pass
			16-QAM	RB1#0	2.6	Pass
	3 MHz	LCH	QPSK	RB1#0	2.7	Pass
			16-QAM	RB1#0	2.8	Pass
		MCH	QPSK	RB1#0	2.9	Pass
			16-QAM	RB1#0	2.10	Pass
		HCH	QPSK	RB1#0	2.11	Pass
			16-QAM	RB1#0	2.12	Pass
	5 MHz	LCH	QPSK	RB1#0	2.13	Pass
			16-QAM	RB1#0	2.14	Pass
		MCH	QPSK	RB1#0	2.15	Pass
			16-QAM	RB1#0	2.16	Pass
		HCH	QPSK	RB1#0	2.17	Pass
			16-QAM	RB1#0	2.18	Pass
	10 MHz	LCH	QPSK	RB1#0	2.19	Pass
			16-QAM	RB1#0	2.20	Pass
		MCH	QPSK	RB1#0	2.21	Pass
			16-QAM	RB1#0	2.22	Pass
		HCH	QPSK	RB1#0	2.23	Pass
			16-QAM	RB1#0	2.24	Pass
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	3.1	Pass
			16-QAM	RB1#0	3.2	Pass
		MCH	QPSK	RB1#0	3.3	Pass
			16-QAM	RB1#0	3.4	Pass
		HCH	QPSK	RB1#0	3.5	Pass
			16-QAM	RB1#0	3.6	Pass
	10 MHz	LCH	QPSK	RB1#0	3.7	Pass
			16-QAM	RB1#0	3.8	Pass
		MCH	QPSK	RB1#0	3.9	Pass
			16-QAM	RB1#0	3.10	Pass
		HCH	QPSK	RB1#0	3.11	Pass
			16-QAM	RB1#0	3.12	Pass
	15 MHz	LCH	QPSK	RB1#0	3.13	Pass
			16-QAM	RB1#0	3.14	Pass
		MCH	QPSK	RB1#0	3.15	Pass
			16-QAM	RB1#0	3.16	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note 2}	Verdict
		HCH	QPSK	RB1#0	3.17	Pass
			16-QAM	RB1#0	3.18	Pass
	20 MHz	LCH	QPSK	RB1#0	3.19	Pass
			16-QAM	RB1#0	3.20	Pass
		MCH	QPSK	RB1#0	3.21	Pass
			16-QAM	RB1#0	3.22	Pass
		HCH	QPSK	RB1#0	3.23	Pass
			16-QAM	RB1#0	3.24	Pass

A.6 Band Edge

Note: Test plots please refer to the document “Annex No.: BL-SZ1660057-501 Data Part 4.pdf”.

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	1.1	Pass
				RB6#0	1.2	Pass
			16-QAM	RB1#0	1.3	Pass
				RB6#0	1.4	Pass
		HCH	QPSK	RB1#0	1.5	Pass
				RB6#0	1.6	Pass
			16-QAM	RB1#0	1.7	Pass
				RB6#0	1.8	Pass
	3 MHz	LCH	QPSK	RB1#0	1.9	Pass
				RB15#0	1.10	Pass
			16-QAM	RB1#0	1.11	Pass
				RB15#0	1.12	Pass
		HCH	QPSK	RB1#0	1.13	Pass
				RB15#0	1.14	Pass
			16-QAM	RB1#0	1.15	Pass
				RB15#0	1.16	Pass
	5 MHz	LCH	QPSK	RB1#0	1.17	Pass
				RB25#0	1.18	Pass
			16-QAM	RB1#0	1.19	Pass
				RB25#0	1.20	Pass
		HCH	QPSK	RB1#0	1.21	Pass
				RB25#0	1.22	Pass
			16-QAM	RB1#0	1.23	Pass
				RB25#0	1.24	Pass
	10 MHz	LCH	QPSK	RB1#0	1.25	Pass
				RB50#0	1.26	Pass
			16-QAM	RB1#0	1.27	Pass
				RB50#0	1.28	Pass
		HCH	QPSK	RB1#0	1.29	Pass
				RB50#0	1.30	Pass
			16-QAM	RB1#0	1.31	Pass
				RB50#0	1.32	Pass
	15 MHz	LCH	QPSK	RB1#0	1.33	Pass
				RB75#0	1.34	Pass
			16-QAM	RB1#0	1.35	Pass
				RB75#0	1.36	Pass
		HCH	QPSK	RB1#0	1.37	Pass
				RB75#0	1.38	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note}	Verdict
	20 MHz	LCH	16-QAM	RB1#0	1.39	Pass
				RB75#0	1.40	Pass
			QPSK	RB1#0	1.41	Pass
				RB100#0	1.42	Pass
		HCH	16-QAM	RB1#0	1.43	Pass
				RB100#0	1.44	Pass
			QPSK	RB1#0	1.45	Pass
				RB100#0	1.46	Pass
			16-QAM	RB1#0	1.47	Pass
				RB100#0	1.48	Pass
Band 5	1.4 MHz	LCH	QPSK	RB1#0	2.1	Pass
				RB6#0	2.2	Pass
			16-QAM	RB1#0	2.3	Pass
				RB6#0	2.4	Pass
		HCH	QPSK	RB1#0	2.5	Pass
				RB6#0	2.6	Pass
			16-QAM	RB1#0	2.7	Pass
				RB6#0	2.8	Pass
	3 MHz	LCH	QPSK	RB1#0	2.9	Pass
				RB15#0	2.10	Pass
			16-QAM	RB1#0	2.11	Pass
				RB15#0	2.12	Pass
		HCH	QPSK	RB1#0	2.13	Pass
				RB15#0	2.14	Pass
			16-QAM	RB1#0	2.15	Pass
				RB15#0	2.16	Pass
	5 MHz	LCH	QPSK	RB1#0	2.17	Pass
				RB25#0	2.18	Pass
			16-QAM	RB1#0	2.19	Pass
				RB25#0	2.20	Pass
		HCH	QPSK	RB1#0	2.21	Pass
				RB25#0	2.22	Pass
			16-QAM	RB1#0	2.23	Pass
				RB25#0	2.24	Pass
	10 MHz	LCH	QPSK	RB1#0	2.25	Pass
				RB50#0	2.26	Pass
			16-QAM	RB1#0	2.27	Pass
				RB50#0	2.28	Pass
		HCH	QPSK	RB1#0	2.29	Pass
				RB50#0	2.30	Pass
			16-QAM	RB1#0	2.31	Pass
				RB50#0	2.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	3.1	Pass
				RB25#0	3.2	Pass
			16-QAM	RB1#0	3.3	Pass
				RB25#0	3.4	Pass
		HCH	QPSK	RB1#0	3.5	Pass
				RB25#0	3.6	Pass
			16-QAM	RB1#0	3.7	Pass
				RB25#0	3.8	Pass
	10 MHz	LCH	QPSK	RB1#0	3.9	Pass
				RB50#0	3.10	Pass
			16-QAM	RB1#0	3.11	Pass
				RB50#0	3.12	Pass
		HCH	QPSK	RB1#0	3.13	Pass
				RB50#0	3.14	Pass
			16-QAM	RB1#0	3.15	Pass
				RB50#0	3.16	Pass
	15 MHz	LCH	QPSK	RB1#0	3.17	Pass
				RB75#0	3.18	Pass
			16-QAM	RB1#0	3.19	Pass
				RB75#0	3.20	Pass
		HCH	QPSK	RB1#0	3.21	Pass
				RB75#0	3.22	Pass
			16-QAM	RB1#0	3.23	Pass
				RB75#0	3.24	Pass
	20 MHz	LCH	QPSK	RB1#0	3.25	Pass
				RB100#0	3.26	Pass
			16-QAM	RB1#0	3.27	Pass
				RB100#0	3.28	Pass
		HCH	QPSK	RB1#0	3.29	Pass
				RB100#0	3.30	Pass
			16-QAM	RB1#0	3.31	Pass
				RB100#0	3.32	Pass

A.7 Field Strength of Spurious Radiation

Note 1: The frequency of verdict which mark by "N/A" should be ignored because they are MS carrier frequency.

Note 2: Test plots please refer to the document "Annex No.: BL-SZ1660057-501 Data Part 5.pdf".

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note 2}	Verdict
Band 4	1.4 MHz	MCH	QPSK	RB1#0	1.1	Pass
			16-QAM	RB1#0	1.2	Pass
	3 MHz	MCH	QPSK	RB1#0	1.3	Pass
		MCH	16-QAM	RB1#0	1.4	Pass
	5 MHz	MCH	QPSK	RB1#0	1.5	Pass
		MCH	16-QAM	RB1#0	1.6	Pass
	10 MHz	MCH	QPSK	RB1#0	1.7	Pass
		MCH	16-QAM	RB1#0	1.8	Pass
	15 MHz	MCH	QPSK	RB1#0	1.9	Pass
		MCH	16-QAM	RB1#0	1.10	Pass
	20 MHz	MCH	QPSK	RB1#0	1.11	Pass
			16-QAM	RB1#0	1.12	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	2.1	Pass
			16-QAM	RB1#0	2.2	Pass
	3 MHz	MCH	QPSK	RB1#0	2.3	Pass
		MCH	16-QAM	RB1#0	2.4	Pass
	5 MHz	MCH	QPSK	RB1#0	2.5	Pass
		MCH	16-QAM	RB1#0	2.6	Pass
	10 MHz	MCH	QPSK	RB1#0	2.7	Pass
		MCH	16-QAM	RB1#0	2.8	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	3.1	Pass
			16-QAM	RB1#0	3.2	Pass
	10 MHz	MCH	QPSK	RB1#0	3.3	Pass
		MCH	16-QAM	RB1#0	3.4	Pass
	15 MHz	MCH	QPSK	RB1#0	3.5	Pass
		MCH	16-QAM	RB1#0	3.6	Pass
	20 MHz	MCH	QPSK	RB1#0	3.7	Pass
		MCH	16-QAM	RB1#0	3.8	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ1660057-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ1660057-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-SZ1660057-AI.PDF".

-END OF REPORT--