

TEST REPORT

Applicant: EZTECH DIGITAL INC.
Address: 251 Little Falls Drive Wilmington Delaware 19808
United States
Equipment Type: IP Camera
Model Name: Reolink Go Plus (refer to section 2.3)
Brand Name: Reolink
FCC ID: 2A4AS-2408A
ISED Number: 28290-2408A
47 CFR Part 2
Test Standard: RSS-Gen Issue5
(Others refer to chapter 3.1)
Sample Arrival Date: Aug. 26, 2024
Test Date: Aug. 28, 2024 - Oct. 16, 2024
Date of Issue: Oct. 21, 2024

ISSUED BY:

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(Testing Director)

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Oct. 21, 2024	Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	EZTECH DIGITAL INC.
Address	251 Little Falls Drive Wilmington Delaware 19808 United States

2.2 Manufacturer Information

Manufacturer	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	IP Camera
Model Name Under Test	Reolink Go Plus
Series Model Name	Go Series G330
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

All Network and Wireless connectivity for EUT	4G Network FDD LTE Band 2/4/5/12/13/25/26
About the Product	The equipment is IP Camera, intended for used with information technology equipment.

The following is the technical information of the EUT tested frequency bands in this report.

Operating Bands		FDD LTE Band 2/4/5/12/13/25/26	
Modulation Type		LTE	QPSK
			16QAM
Antenna Type		FPC Antenna	
Antenna Gain		FDD LTE Band 2: 2.67 dBi	
		FDD LTE Band 4: 1.07 dBi	
		FDD LTE Band 5: -0.84 dBi	
		FDD LTE Band 12: -0.45 dBi	
		FDD LTE Band 13: -0.32 dBi	
		FDD LTE Band 25: 2.67 dBi	
		FDD LTE Band 26: -0.6 dBi	
The Max RF Output Power (EIRP/ERP)		FDD LTE Band 2: 25.87 dBm	
		FDD LTE Band 4: 23.94 dBm	
		FDD LTE Band 5: 20.90 dBm	
		FDD LTE Band 12: 20.63 dBm	
		FDD LTE Band 13: 20.92 dBm	
		FDD LTE Band 25: 25.70 dBm	
		FDD LTE Band 26 (part22): 20.86 dBm	
FDD LTE Band 26 (part90): 20.56 dBm			
Band	Power Class	Tx Frequency Range	Rx Frequency Range
LTE B2	3	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
LTE B4	3	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
LTE B5	3	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
LTE B12	3	699 MHz ~ 716 MHz	729 MHz ~ 746 MHz
LTE B13	3	777 MHz ~ 787 MHz	746 MHz ~ 756 MHz
LTE B25	3	1850 MHz ~ 1915 MHz	1930 MHz ~ 1995 MHz
LTE B26 ^{Note3}	3	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
		814 MHz ~ 824 MHz	859 MHz ~ 869 MHz

Note1: The EUT information provided by the applicant, except for The Max RF Conducted Power. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

Note 2: There are two main antennas and two diversity antennas for WWAN. Two diversity antennas only support receiving signal. Two main antennas have only one RF port, supporting transceiving, and can switch. But main antennas can't transmit simultaneously. Details please refer to internal photos.

Note3: LTE Band26 (814-824MHz & 859-869MHz) are only applicable in the United States.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90 Subpart S	Regulations Governing Licensing and Use of Frequencies in the 806-824, 851-869, 896-901, and 935-940 MHz Bands
6	RSS-Gen Issue5	General Requirements and Information for the Certification of Radio Apparatus
7	RSS-130 Issue2	Equipment Operating in the Frequency Bands 617-652 MHz, 663- 698 MHz, 698-756 MHz and 777-787 MHz
8	RSS-132 Issue4	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
9	RSS-133 Issue6	2 GHz Personal Communications Services
10	RSS-139 Issue4	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz
11	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
12	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Test Description	FCC Part No.	ISED Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50 90.635(b)	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046 24.232(d) 27.50(d)	RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53 90.209	RSS-Gen 6.7	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54 90.213	RSS-Gen 6.11 RSS-130 4.5 RSS-132 5.3 RSS-133 6.3 RSS-139 6.4	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53 90.691	RSS-Gen 6.13 RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53 90.691	RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53 90.691	RSS-Gen 6.13 RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6	ANNEX A.7	Pass
9	Receiver Spurious	N/A	RSS-Gen 7	ANNEX A.8	Pass

No.	Test Description	FCC Part No.	ISED Part No.	Test Result	Test Verdict
	Emissions		RSS-133 6.6		
10	AC Power-line Conducted Emissions	N/A	RSS-Gen 8.8	ANNEX A.9	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity		20% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Voltage of the EUT	NV (Normal Voltage)	3.7V
	LV (Low Voltage)	3.3V
	HV (High Voltage)	4V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	55 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
2/3/4/5G RF Test System						
BL410 Test Software	BALUN	BL410R	N/A	3.0.1.536	N/A	N/A
Temperature Chamber	OK	OK-TH-100C	OK2022110401	N/A	2023-11-08	2024-11-07
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2024-04-25	2025-04-24
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.7.172	2023-11-20	2024-11-19
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2023-12-27	2024-12-26
Spectrum Analyzer	R&S	N9020A	MY50531628	A.16.09	2024-05-08	2025-05-07
DC Power Supply	ITECH	IT6863A	8000140207 57120000	N/A	2024-08-16	2025-08-15
Radiated Test System						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V22.4	N/A	N/A
Wideband Radio	R&S	CMW 500	100854	V3.7.172	2024-04-25	2025-04-24

Communication Tester						
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.7.172	2023-11-20	2024-11-19
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2023-12-27	2024-12-26
Test Antenna-Horn(18-40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2024-06-15	2027-06-14
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	1414	N/A	2023-11-03	2026-11-02
Test Antenna-Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	2459	N/A	2023-10-26	2026-10-25
Anechoic Chamber	YIHENG	C8-966	N/A	N/A	2024-05-15	2027-05-11
EMI Receiver	Keysight	N9038A	MY55330121	A.20.03	2024-04-23	2025-04-22

4.3 Test Configurations

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
Effective (Isotropic) Radiated Power														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
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
12	v	v	v	v	n	n	v	v	v	v	v	v	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v
25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26(Part22)	v	v	v	v	v	n	v	v	v	v	v	v	v	v
26(Part90)	v	v	v	v	--	n	v	v	v	v	v	v	v	v
Peak to Average Ratio														
2	--	--	--	--	--	v	v	v	v	--	v	v	v	v
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
12	--	--	--	v	n	n	v	v	v	--	v	v	v	v
13	n	n	--	v	n	n	v	v	v	--	v	v	v	v
25	--	--	--	--	--	v	v	v	v	--	v	v	v	v
26(Part22)	--	--	--	--	v	n	v	v	v	--	v	v	v	v
26(Part90)	--	--	--	v	--	n	v	v	v	--	v	--	v	--
Occupied Bandwidth														
2	v	v	v	v	v	v	v	v	--	--	v	v	v	v
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
12	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
25	v	v	v	v	v	v	v	v	--	--	v	v	v	v
26(Part22)	v	v	v	v	v	n	v	v	--	--	v	v	v	v
26(Part90)	v	v	v	v	--	n	v	v	--	--	v	v	v	v
Frequency Stability														
2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
12	--	--	--	v	n	n	v	v	--	--	v	--	v	--
13	n	n	--	v	n	n	v	v	--	--	v	--	v	--
25	--	--	--	v	--	--	v	v	--	--	v	--	v	--
26(Part22)	--	--	--	v	--	n	v	v	--	--	v	--	v	--
26(Part90)	--	--	--	v	--	n	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
2	v	v	v	v	v	v	v	v	v	--	--	v	v	v
4	v	v	v	v	v	v	v	v	v	--	--	v	v	v

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
12	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
25	v	v	v	v	v	v	v	v	v	--	--	v	v	v
26(Part22)	v	v	v	v	v	n	v	v	v	--	--	v	v	v
26(Part90)	v	v	v	v	--	n	v	v	v	--	--	v	v	v
Band Edge														
2	v	v	v	v	v	v	v	v	v	--	v	v	--	v
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
12	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
25	v	v	v	v	v	v	v	v	v	--	v	v	--	v
26(Part22)	v	v	v	v	v	n	v	v	v	--	v	v	--	v
26(Part90)	v	v	v	v	--	n	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
2	Worst case													
4	Worst case													
5	Worst case													
12	Worst case													
13	Worst case													
25	Worst case													
26(Part22)	Worst case													
26(Part90)	Worst case													
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 Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Receiver Spurious Emissions	LTE Band 2	--	v	--
AC Power-line Conducted Emissions	LTE Band 2	--	v	--
Note 1: The mark “v” means that this configuration is the worst test mode for Receiver Spurious Emissions and AC Power-line Conducted Emissions measurement.				

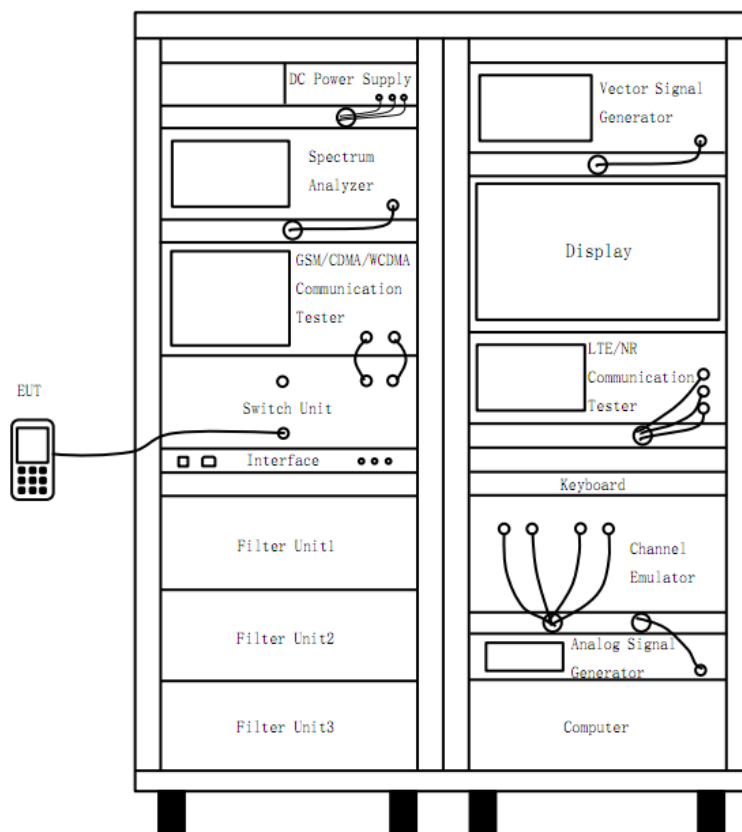
Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
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
	Middle 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
	Middle 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 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711
LTE Band 13	Low Range	5	23205	779.5
		10	23230	782
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
		10	23230	782
LTE Band 25	Low Range	1.4	26047	1850.7
		3	26055	1851.5
		5	26065	1852.5
		10	26090	1855
		15	26115	1857.5
		20	26140	1860
	Middle Range	1.4/3/5/10/15/20	26365	1882.5
	High Range	1.4	26683	1914.3
		3	26675	1913.5
		5	26665	1912.5
		10	26640	1910
		15	26615	1907.5
		20	26590	1905
LTE Band 26 (Part22)	Low Range	1.4	26797	824.7
		3	26805	825.5
		5	26815	826.5
		10	26840	829
		15	26865	831.5
	Middle Range	1.4/3/5/10/15	26915	836.5
	High Range	1.4	27033	848.3
		3	27025	847.5
		5	27015	846.5
		10	26990	844
		15	26965	841.5
LTE Band 26 (Part90)	Low Range	1.4	26697	814.7
		3	26705	815.5
		5	26715	816.5
		10	---	---
	Middle Range	1.4/3/5/10	26740	819
	High Range	1.4	26783	823.3
		3	26775	822.5
		5	26765	821.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		10	---	---

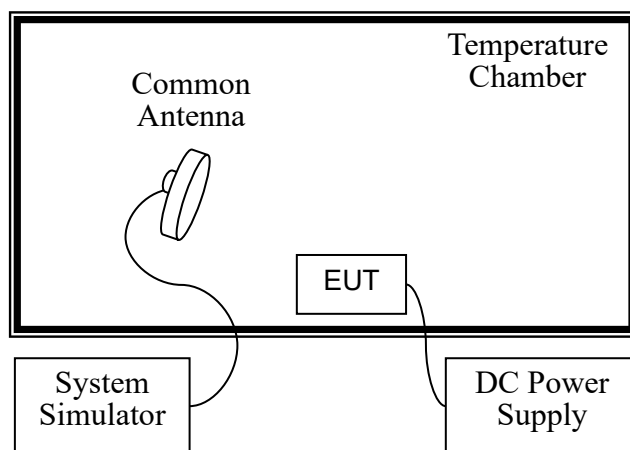
4.4 Test Setup

4.4.1 For Antenna Port Test



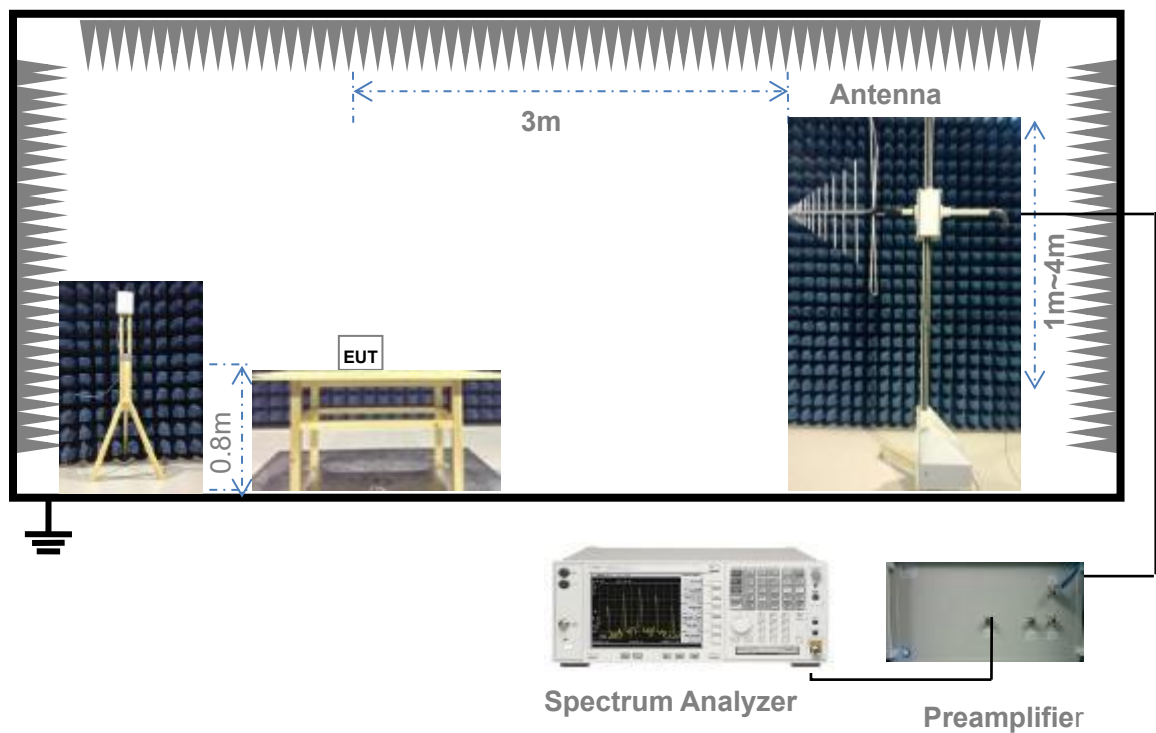
(Diagram 1)

4.4.2 For Frequency Stability Test



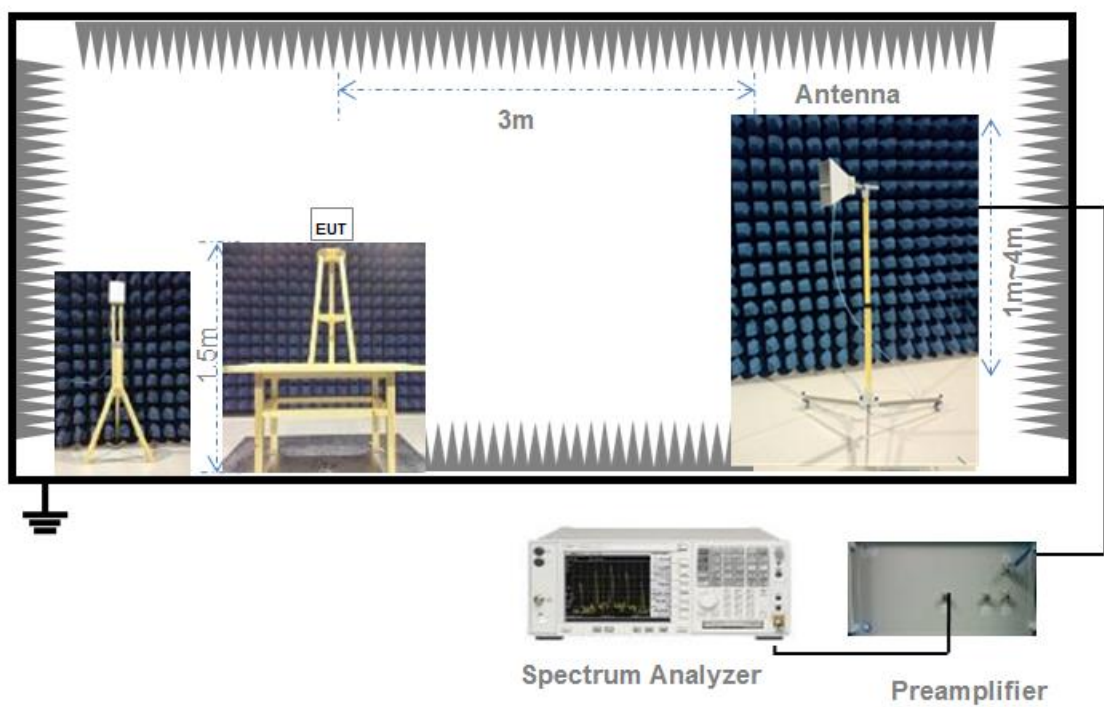
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



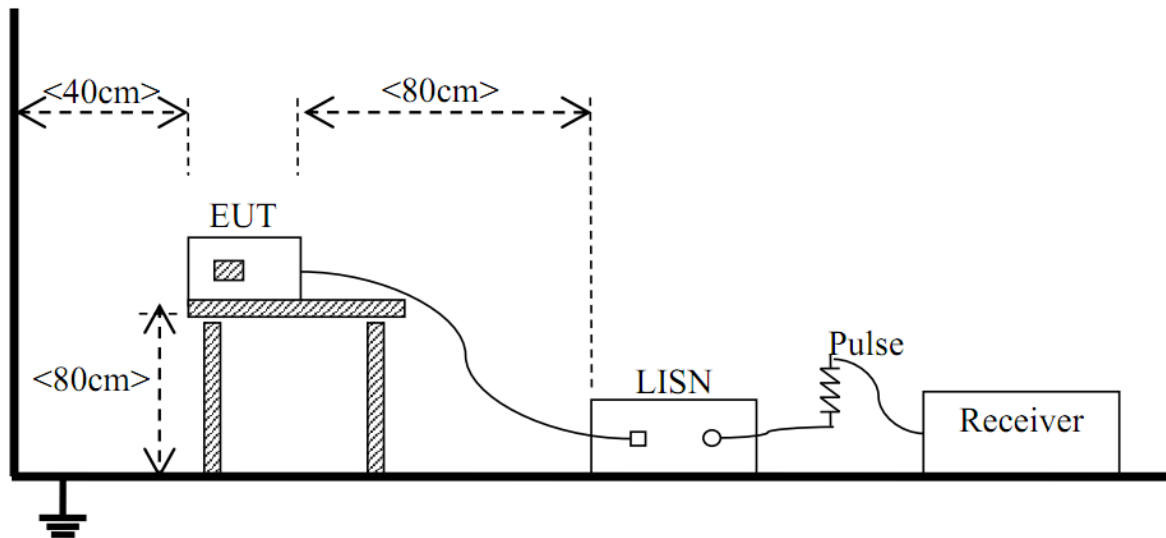
(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

4.4.5 For AC Power-line Conducted Emissions



(Diagram 5)

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) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a)

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.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

RSS-Gen § 6.12 & RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5

According to RSS-130 § 4.6.3, The e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

According to RSS-132 § 5.4, the Effective Radiated Power (ERP) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 § 6.4 (SRSP 510), mobile stations and hand-held portables are limited to 2 watts maximum EIRP.

According to RSS-139 § 6.5, the EIRP for mobile and portable transmitters shall not exceed 1 watt.

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 50Ohm; 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:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

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:

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

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:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

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

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

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:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

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) & 27.50(j) & 27.50(k)

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) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5

According to RSS-130 § 4.6.1, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

According to RSS-132 § 5.4, 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 RSS-133 § 6.4, the transmitter's peak-to-average power ratio (PAPR) 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 RSS-139 § 5.5, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

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 $\geq$ 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%.

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

RSS-Gen § 6.7

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 & 90.213

RSS-Gen § 6.11 & RSS-130 § 4.5 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4

RSS-Gen § 6.11

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.

FCC § 90.213

The frequency stability shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

RSS-130 § 4.5

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS-132 § 5.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

RSS-133 § 6.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

RSS-139 § 6.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

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(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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) & RSS-132 § 5.5 & RSS-133 § 6.5

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) & RSS-139 § 6.6

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(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the

licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS 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).

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.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, 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 all frequencies between 769 – 775 MHz and 799 – 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.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

RSS-132 § 5.5 & RSS-133 § 6.5

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.

RSS-139 § 6.6

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

(i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

(ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

(b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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 50Ohm; 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(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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) & RSS-132 § 5.5 & RSS-133 § 6.5

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) & RSS-139 § 6.6

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(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the

licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4) & RSS-199 § 4.5

For mobile digital stations (BRS and EBS 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).

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.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, 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 all frequencies between 769 – 775 MHz and 799 – 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.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

RSS-132 § 5.5 & RSS-133 § 6.5

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.

RSS-139 § 6.6

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

(i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

(ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

(b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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 50 Ohm; 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.

$$\text{Sweep point number} = 2 * \text{Span} / \text{RBW}$$

$$\text{VBW} = 3 \text{RBW}$$

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.

$$10 * \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 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(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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) & RSS-132 § 5.5 & RSS-133 § 6.5

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) & RSS-139 § 6.6

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(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the

licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS 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).

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.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, 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 all frequencies between 769 – 775 MHz and 799 – 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.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

RSS-132 § 5.5 & RSS-133 § 6.5

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.

RSS-139 § 6.6

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

(i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

(ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

(b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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 ~ 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 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:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

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:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.7.4 Test Result

Please refer to ANNEX A.7.

5.8 Receiver Spurious Emissions

5.8.1 Limit

RSS-Gen § 7.3/4 & RSS-133 § 6.6

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz.

As an alternative to CISPR quasi-peak or average measurements, compliance with the emission limit can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization, as required, with a measurement bandwidth equal to, or greater than, the applicable CISPR quasi-peak bandwidth or 1 MHz bandwidth, respectively.

Receiver Radiated Limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna ports. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least five times the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated emissions limits shown in Table 2 below.

Table 2 –Receiver radiated emissions limits

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3 metres)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Receiver Conducted Limits

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna port connected to a measuring instrument having equal input impedance to that specified for the antenna. The RF cable connecting the receiver under test to the measuring instrument shall also have the same impedance to that specified for the receiver's antenna.

The spurious emissions from the receiver at any discrete frequency, measured at the antenna port by the antenna-conducted method, shall not exceed 2 nW in the frequency range 30-1000 MHz and 5 nW above 1 GHz.

5.8.2 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.

5.8.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.8.4 Test Result

Please refer to ANNEX A.8.

5.9 AC Power-line Conducted Emissions

5.9.1 Limit

RSS-Gen § 8.8

For AC power-line conducted emissions, both quasi-peak and average detectors having the characteristics specified in CAN/CSA-CISPR 16-1-1:15 for the 150 kHz to 30 MHz frequency range shall be employed.

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 3, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 3 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 3 –AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note1}	56 to 46 ^{Note1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

5.9.2 Test Setup

The section 4.4.5 (Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

Note 1: $ERP/EIRP = P_{Meas} + GT - LC$

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);

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

ERP = EIRP – 2.15; where ERP and EIRP are expressed in consistent units.

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									
1.4 MHz	LCH	QPSK	RB1#0	22.67	2.67	25.34	0.342	2.00	Pass
			RB1#3	22.65	2.67	25.32	0.340	2.00	Pass
			RB1#5	22.64	2.67	25.31	0.340	2.00	Pass
			RB3#0	22.6	2.67	25.27	0.337	2.00	Pass
			RB3#2	22.62	2.67	25.29	0.338	2.00	Pass
			RB3#3	22.63	2.67	25.30	0.339	2.00	Pass
			RB6#0	21.77	2.67	24.44	0.278	2.00	Pass
		16-QAM	RB1#0	21.39	2.67	24.06	0.255	2.00	Pass
			RB1#3	21.5	2.67	24.17	0.261	2.00	Pass
			RB1#5	21.43	2.67	24.10	0.257	2.00	Pass
			RB3#0	21.65	2.67	24.32	0.270	2.00	Pass
			RB3#2	21.69	2.67	24.36	0.273	2.00	Pass
			RB3#3	21.72	2.67	24.39	0.275	2.00	Pass
			RB6#0	20.85	2.67	23.52	0.225	2.00	Pass
	MCH	QPSK	RB1#0	22.39	2.67	25.06	0.321	2.00	Pass
			RB1#3	22.57	2.67	25.24	0.334	2.00	Pass
			RB1#5	22.5	2.67	25.17	0.329	2.00	Pass
			RB3#0	22.49	2.67	25.16	0.328	2.00	Pass
			RB3#2	22.65	2.67	25.32	0.340	2.00	Pass
			RB3#3	22.59	2.67	25.26	0.336	2.00	Pass
			RB6#0	21.63	2.67	24.30	0.269	2.00	Pass
		16-QAM	RB1#0	21.55	2.67	24.22	0.264	2.00	Pass
			RB1#3	21.45	2.67	24.12	0.258	2.00	Pass
			RB1#5	21.35	2.67	24.02	0.252	2.00	Pass
			RB3#0	21.39	2.67	24.06	0.255	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
LTE BAND2									
	HCH		RB3#2	21.6	2.67	24.27	0.267	2.00	Pass
			RB3#3	21.53	2.67	24.20	0.263	2.00	Pass
			RB6#0	20.59	2.67	23.26	0.212	2.00	Pass
		QPSK	RB1#0	22.61	2.67	25.28	0.337	2.00	Pass
			RB1#3	22.76	2.67	25.43	0.349	2.00	Pass
			RB1#5	22.64	2.67	25.31	0.340	2.00	Pass
			RB3#0	22.84	2.67	25.51	0.356	2.00	Pass
			RB3#2	22.96	2.67	25.63	0.366	2.00	Pass
			RB3#3	22.86	2.67	25.53	0.357	2.00	Pass
			RB6#0	21.86	2.67	24.53	0.284	2.00	Pass
		16-QAM	RB1#0	21.83	2.67	24.50	0.282	2.00	Pass
			RB1#3	21.89	2.67	24.56	0.286	2.00	Pass
			RB1#5	21.76	2.67	24.43	0.277	2.00	Pass
			RB3#0	21.99	2.67	24.66	0.292	2.00	Pass
			RB3#2	22.02	2.67	24.69	0.294	2.00	Pass
			RB3#3	21.96	2.67	24.63	0.290	2.00	Pass
			RB6#0	20.78	2.67	23.45	0.221	2.00	Pass
3 MHz	LCH	QPSK	RB1#0	22.97	2.67	25.64	0.366	2.00	Pass
			RB1#7	22.61	2.67	25.28	0.337	2.00	Pass
			RB1#14	22.84	2.67	25.51	0.356	2.00	Pass
			RB8#0	21.86	2.67	24.53	0.284	2.00	Pass
			RB8#4	21.89	2.67	24.56	0.286	2.00	Pass
			RB8#7	21.83	2.67	24.50	0.282	2.00	Pass
			RB15#0	21.74	2.67	24.41	0.276	2.00	Pass
		16-QAM	RB1#0	21.66	2.67	24.33	0.271	2.00	Pass
			RB1#7	21.58	2.67	24.25	0.266	2.00	Pass
			RB1#14	21.9	2.67	24.57	0.286	2.00	Pass
			RB8#0	20.7	2.67	23.37	0.217	2.00	Pass
			RB8#4	20.76	2.67	23.43	0.220	2.00	Pass
			RB8#7	20.79	2.67	23.46	0.222	2.00	Pass
			RB15#0	20.63	2.67	23.30	0.214	2.00	Pass
	MCH	QPSK	RB1#0	22.6	2.67	25.27	0.337	2.00	Pass
			RB1#7	22.64	2.67	25.31	0.340	2.00	Pass
			RB1#14	23	2.67	25.67	0.369	2.00	Pass
			RB8#0	21.76	2.67	24.43	0.277	2.00	Pass
			RB8#4	21.78	2.67	24.45	0.279	2.00	Pass
			RB8#7	21.76	2.67	24.43	0.277	2.00	Pass
			RB15#0	21.75	2.67	24.42	0.277	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
LTE BAND2									
	HCH	16-QAM	RB1#0	21.48	2.67	24.15	0.260	2.00	Pass
			RB1#7	21.39	2.67	24.06	0.255	2.00	Pass
			RB1#14	21.46	2.67	24.13	0.259	2.00	Pass
			RB8#0	20.65	2.67	23.32	0.215	2.00	Pass
			RB8#4	20.71	2.67	23.38	0.218	2.00	Pass
			RB8#7	20.89	2.67	23.56	0.227	2.00	Pass
			RB15#0	20.74	2.67	23.41	0.219	2.00	Pass
		QPSK	RB1#0	23.11	2.67	25.78	0.378	2.00	Pass
			RB1#7	22.76	2.67	25.43	0.349	2.00	Pass
			RB1#14	22.76	2.67	25.43	0.349	2.00	Pass
			RB8#0	21.95	2.67	24.62	0.290	2.00	Pass
			RB8#4	21.86	2.67	24.53	0.284	2.00	Pass
			RB8#7	21.86	2.67	24.53	0.284	2.00	Pass
			RB15#0	21.93	2.67	24.60	0.288	2.00	Pass
		16-QAM	RB1#0	21.98	2.67	24.65	0.292	2.00	Pass
			RB1#7	21.74	2.67	24.41	0.276	2.00	Pass
			RB1#14	21.74	2.67	24.41	0.276	2.00	Pass
			RB8#0	20.74	2.67	23.41	0.219	2.00	Pass
			RB8#4	20.64	2.67	23.31	0.214	2.00	Pass
			RB8#7	20.6	2.67	23.27	0.212	2.00	Pass
			RB15#0	20.62	2.67	23.29	0.213	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	22.72	2.67	25.39	0.346	2.00	Pass
			RB1#13	22.83	2.67	25.50	0.355	2.00	Pass
			RB1#24	22.69	2.67	25.36	0.344	2.00	Pass
			RB12#0	21.74	2.67	24.41	0.276	2.00	Pass
			RB12#6	21.71	2.67	24.38	0.274	2.00	Pass
			RB12#13	21.73	2.67	24.40	0.275	2.00	Pass
			RB25#0	21.76	2.67	24.43	0.277	2.00	Pass
		16-QAM	RB1#0	21.46	2.67	24.13	0.259	2.00	Pass
			RB1#13	21.24	2.67	23.91	0.246	2.00	Pass
			RB1#24	21.36	2.67	24.03	0.253	2.00	Pass
			RB12#0	20.7	2.67	23.37	0.217	2.00	Pass
			RB12#6	20.64	2.67	23.31	0.214	2.00	Pass
			RB12#13	20.57	2.67	23.24	0.211	2.00	Pass
			RB25#0	20.75	2.67	23.42	0.220	2.00	Pass
	MCH	QPSK	RB1#0	22.67	2.67	25.34	0.342	2.00	Pass
			RB1#13	22.66	2.67	25.33	0.341	2.00	Pass
			RB1#24	22.59	2.67	25.26	0.336	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
LTE BAND2									
			RB12#0	21.62	2.67	24.29	0.269	2.00	Pass
			RB12#6	21.77	2.67	24.44	0.278	2.00	Pass
			RB12#13	21.76	2.67	24.43	0.277	2.00	Pass
			RB25#0	21.74	2.67	24.41	0.276	2.00	Pass
		16-QAM	RB1#0	21.68	2.67	24.35	0.272	2.00	Pass
			RB1#13	21.82	2.67	24.49	0.281	2.00	Pass
			RB1#24	21.68	2.67	24.35	0.272	2.00	Pass
			RB12#0	20.54	2.67	23.21	0.209	2.00	Pass
			RB12#6	20.59	2.67	23.26	0.212	2.00	Pass
			RB12#13	20.65	2.67	23.32	0.215	2.00	Pass
			RB25#0	20.78	2.67	23.45	0.221	2.00	Pass
	HCH	QPSK	RB1#0	23.03	2.67	25.70	0.372	2.00	Pass
			RB1#13	23.04	2.67	25.71	0.372	2.00	Pass
			RB1#24	22.93	2.67	25.60	0.363	2.00	Pass
			RB12#0	21.88	2.67	24.55	0.285	2.00	Pass
			RB12#6	21.95	2.67	24.62	0.290	2.00	Pass
			RB12#13	21.93	2.67	24.60	0.288	2.00	Pass
			RB25#0	21.99	2.67	24.66	0.292	2.00	Pass
		16-QAM	RB1#0	21.78	2.67	24.45	0.279	2.00	Pass
			RB1#13	21.86	2.67	24.53	0.284	2.00	Pass
			RB1#24	21.69	2.67	24.36	0.273	2.00	Pass
			RB12#0	20.72	2.67	23.39	0.218	2.00	Pass
			RB12#6	20.73	2.67	23.40	0.219	2.00	Pass
			RB12#13	20.79	2.67	23.46	0.222	2.00	Pass
			RB25#0	20.79	2.67	23.46	0.222	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	22.86	2.67	25.53	0.357	2.00	Pass
			RB1#25	22.82	2.67	25.49	0.354	2.00	Pass
			RB1#49	22.65	2.67	25.32	0.340	2.00	Pass
			RB25#0	21.82	2.67	24.49	0.281	2.00	Pass
			RB25#13	21.71	2.67	24.38	0.274	2.00	Pass
			RB25#25	21.69	2.67	24.36	0.273	2.00	Pass
			RB50#0	21.79	2.67	24.46	0.279	2.00	Pass
		16-QAM	RB1#0	21.92	2.67	24.59	0.288	2.00	Pass
			RB1#25	21.85	2.67	24.52	0.283	2.00	Pass
			RB1#49	21.54	2.67	24.21	0.264	2.00	Pass
			RB25#0	20.8	2.67	23.47	0.222	2.00	Pass
			RB25#13	20.7	2.67	23.37	0.217	2.00	Pass
			RB25#25	20.66	2.67	23.33	0.215	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
LTE BAND2									
	MCH	QPSK	RB50#0	20.63	2.67	23.30	0.214	2.00	Pass
			RB1#0	22.57	2.67	25.24	0.334	2.00	Pass
			RB1#25	22.89	2.67	25.56	0.360	2.00	Pass
			RB1#49	22.77	2.67	25.44	0.350	2.00	Pass
			RB25#0	21.61	2.67	24.28	0.268	2.00	Pass
			RB25#13	21.74	2.67	24.41	0.276	2.00	Pass
			RB25#25	21.76	2.67	24.43	0.277	2.00	Pass
			RB50#0	21.67	2.67	24.34	0.272	2.00	Pass
		16-QAM	RB1#0	21.61	2.67	24.28	0.268	2.00	Pass
			RB1#25	21.5	2.67	24.17	0.261	2.00	Pass
			RB1#49	21.45	2.67	24.12	0.258	2.00	Pass
			RB25#0	20.62	2.67	23.29	0.213	2.00	Pass
			RB25#13	20.93	2.67	23.60	0.229	2.00	Pass
			RB25#25	20.95	2.67	23.62	0.230	2.00	Pass
			RB50#0	20.58	2.67	23.25	0.211	2.00	Pass
	HCH	QPSK	RB1#0	22.93	2.67	25.60	0.363	2.00	Pass
			RB1#25	23.2	2.67	25.87	0.386	2.00	Pass
			RB1#49	22.91	2.67	25.58	0.361	2.00	Pass
			RB25#0	21.88	2.67	24.55	0.285	2.00	Pass
			RB25#13	22.03	2.67	24.70	0.295	2.00	Pass
			RB25#25	22.04	2.67	24.71	0.296	2.00	Pass
			RB50#0	21.97	2.67	24.64	0.291	2.00	Pass
		16-QAM	RB1#0	21.82	2.67	24.49	0.281	2.00	Pass
			RB1#25	22.05	2.67	24.72	0.296	2.00	Pass
			RB1#49	21.85	2.67	24.52	0.283	2.00	Pass
			RB25#0	20.98	2.67	23.65	0.232	2.00	Pass
			RB25#13	21.05	2.67	23.72	0.236	2.00	Pass
			RB25#25	21.12	2.67	23.79	0.239	2.00	Pass
			RB50#0	20.92	2.67	23.59	0.229	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	23.15	2.67	25.82	0.382	2.00	Pass
			RB1#38	23.03	2.67	25.70	0.372	2.00	Pass
			RB1#74	22.82	2.67	25.49	0.354	2.00	Pass
			RB36#0	21.82	2.67	24.49	0.281	2.00	Pass
			RB36#19	21.72	2.67	24.39	0.275	2.00	Pass
			RB36#39	21.69	2.67	24.36	0.273	2.00	Pass
			RB75#0	21.77	2.67	24.44	0.278	2.00	Pass
		16-QAM	RB1#0	21.87	2.67	24.54	0.284	2.00	Pass
			RB1#38	21.65	2.67	24.32	0.270	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
LTE BAND2									
			RB1#74	21.53	2.67	24.20	0.263	2.00	Pass
			RB36#0	20.71	2.67	23.38	0.218	2.00	Pass
			RB36#19	20.67	2.67	23.34	0.216	2.00	Pass
			RB36#39	20.56	2.67	23.23	0.210	2.00	Pass
			RB75#0	20.65	2.67	23.32	0.215	2.00	Pass
	MCH	QPSK	RB1#0	22.33	2.67	25.00	0.316	2.00	Pass
			RB1#38	22.8	2.67	25.47	0.352	2.00	Pass
			RB1#74	22.82	2.67	25.49	0.354	2.00	Pass
			RB36#0	21.68	2.67	24.35	0.272	2.00	Pass
			RB36#19	21.74	2.67	24.41	0.276	2.00	Pass
			RB36#39	21.77	2.67	24.44	0.278	2.00	Pass
			RB75#0	21.62	2.67	24.29	0.269	2.00	Pass
		16-QAM	RB1#0	21.71	2.67	24.38	0.274	2.00	Pass
			RB1#38	21.61	2.67	24.28	0.268	2.00	Pass
			RB1#74	21.63	2.67	24.30	0.269	2.00	Pass
			RB36#0	20.77	2.67	23.44	0.221	2.00	Pass
			RB36#19	20.77	2.67	23.44	0.221	2.00	Pass
			RB36#39	20.78	2.67	23.45	0.221	2.00	Pass
			RB75#0	20.68	2.67	23.35	0.216	2.00	Pass
	HCH	QPSK	RB1#0	22.67	2.67	25.34	0.342	2.00	Pass
			RB1#38	22.93	2.67	25.60	0.363	2.00	Pass
			RB1#74	22.77	2.67	25.44	0.350	2.00	Pass
			RB36#0	21.76	2.67	24.43	0.277	2.00	Pass
			RB36#19	21.92	2.67	24.59	0.288	2.00	Pass
			RB36#39	22.03	2.67	24.70	0.295	2.00	Pass
			RB75#0	21.92	2.67	24.59	0.288	2.00	Pass
		16-QAM	RB1#0	22.26	2.67	24.93	0.311	2.00	Pass
			RB1#38	22.5	2.67	25.17	0.329	2.00	Pass
			RB1#74	22.89	2.67	25.56	0.360	2.00	Pass
			RB36#0	20.82	2.67	23.49	0.223	2.00	Pass
			RB36#19	20.93	2.67	23.60	0.229	2.00	Pass
			RB36#39	21.01	2.67	23.68	0.233	2.00	Pass
			RB75#0	20.93	2.67	23.60	0.229	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	22.81	2.67	25.48	0.353	2.00	Pass
			RB1#50	22.59	2.67	25.26	0.336	2.00	Pass
			RB1#99	22.21	2.67	24.88	0.308	2.00	Pass
			RB50#0	21.74	2.67	24.41	0.276	2.00	Pass
			RB50#25	21.62	2.67	24.29	0.269	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
LTE BAND2									
			RB50#50	21.53	2.67	24.20	0.263	2.00	Pass
			RB100#0	21.69	2.67	24.36	0.273	2.00	Pass
		16-QAM	RB1#0	21.69	2.67	24.36	0.273	2.00	Pass
			RB1#50	21.68	2.67	24.35	0.272	2.00	Pass
			RB1#99	21.21	2.67	23.88	0.244	2.00	Pass
			RB50#0	20.81	2.67	23.48	0.223	2.00	Pass
			RB50#25	20.7	2.67	23.37	0.217	2.00	Pass
			RB50#50	20.62	2.67	23.29	0.213	2.00	Pass
			RB100#0	20.73	2.67	23.40	0.219	2.00	Pass
	MCH	QPSK	RB1#0	22.64	2.67	25.31	0.340	2.00	Pass
			RB1#50	22.84	2.67	25.51	0.356	2.00	Pass
			RB1#99	22.7	2.67	25.37	0.344	2.00	Pass
			RB50#0	21.59	2.67	24.26	0.267	2.00	Pass
			RB50#25	21.69	2.67	24.36	0.273	2.00	Pass
			RB50#50	21.77	2.67	24.44	0.278	2.00	Pass
			RB100#0	21.6	2.67	24.27	0.267	2.00	Pass
		16-QAM	RB1#0	22.08	2.67	24.75	0.299	2.00	Pass
			RB1#50	21.66	2.67	24.33	0.271	2.00	Pass
			RB1#99	21.47	2.67	24.14	0.259	2.00	Pass
			RB50#0	20.52	2.67	23.19	0.208	2.00	Pass
			RB50#25	20.77	2.67	23.44	0.221	2.00	Pass
			RB50#50	20.86	2.67	23.53	0.225	2.00	Pass
			RB100#0	20.6	2.67	23.27	0.212	2.00	Pass
	HCH	QPSK	RB1#0	22.59	2.67	25.26	0.336	2.00	Pass
			RB1#50	22.71	2.67	25.38	0.345	2.00	Pass
			RB1#99	23.06	2.67	25.73	0.374	2.00	Pass
			RB50#0	21.92	2.67	24.59	0.288	2.00	Pass
			RB50#25	21.96	2.67	24.63	0.290	2.00	Pass
			RB50#50	21.94	2.67	24.61	0.289	2.00	Pass
			RB100#0	21.89	2.67	24.56	0.286	2.00	Pass
		16-QAM	RB1#0	21.55	2.67	24.22	0.264	2.00	Pass
			RB1#50	21.77	2.67	24.44	0.278	2.00	Pass
			RB1#99	21.54	2.67	24.21	0.264	2.00	Pass
			RB50#0	20.76	2.67	23.43	0.220	2.00	Pass
			RB50#25	20.94	2.67	23.61	0.230	2.00	Pass
			RB50#50	20.85	2.67	23.52	0.225	2.00	Pass
			RB100#0	20.79	2.67	23.46	0.222	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
LTE BAND4									
1.4 MHz	LCH	QPSK	RB1#0	22.67	1.07	23.74	0.237	1.00	Pass
			RB1#3	22.8	1.07	23.87	0.244	1.00	Pass
			RB1#5	22.63	1.07	23.70	0.234	1.00	Pass
			RB3#0	22.71	1.07	23.78	0.239	1.00	Pass
			RB3#2	22.73	1.07	23.80	0.240	1.00	Pass
			RB3#3	22.69	1.07	23.76	0.238	1.00	Pass
			RB6#0	21.66	1.07	22.73	0.187	1.00	Pass
		16-QAM	RB1#0	21.77	1.07	22.84	0.192	1.00	Pass
			RB1#3	21.9	1.07	22.97	0.198	1.00	Pass
			RB1#5	21.78	1.07	22.85	0.193	1.00	Pass
			RB3#0	21.9	1.07	22.97	0.198	1.00	Pass
			RB3#2	21.95	1.07	23.02	0.200	1.00	Pass
			RB3#3	21.73	1.07	22.80	0.191	1.00	Pass
			RB6#0	20.88	1.07	21.95	0.157	1.00	Pass
	MCH	QPSK	RB1#0	22.29	1.07	23.36	0.217	1.00	Pass
			RB1#3	22.52	1.07	23.59	0.229	1.00	Pass
			RB1#5	22.42	1.07	23.49	0.223	1.00	Pass
			RB3#0	22.55	1.07	23.62	0.230	1.00	Pass
			RB3#2	22.62	1.07	23.69	0.234	1.00	Pass
			RB3#3	22.59	1.07	23.66	0.232	1.00	Pass
			RB6#0	21.61	1.07	22.68	0.185	1.00	Pass
		16-QAM	RB1#0	21.78	1.07	22.85	0.193	1.00	Pass
			RB1#3	21.93	1.07	23.00	0.200	1.00	Pass
			RB1#5	21.75	1.07	22.82	0.191	1.00	Pass
			RB3#0	21.53	1.07	22.60	0.182	1.00	Pass
			RB3#2	21.58	1.07	22.65	0.184	1.00	Pass
			RB3#3	21.53	1.07	22.60	0.182	1.00	Pass
			RB6#0	20.3	1.07	21.37	0.137	1.00	Pass
	HCH	QPSK	RB1#0	22.46	1.07	23.53	0.225	1.00	Pass
			RB1#3	22.52	1.07	23.59	0.229	1.00	Pass
			RB1#5	22.46	1.07	23.53	0.225	1.00	Pass
			RB3#0	22.66	1.07	23.73	0.236	1.00	Pass
			RB3#2	22.72	1.07	23.79	0.239	1.00	Pass
			RB3#3	22.78	1.07	23.85	0.243	1.00	Pass
			RB6#0	21.73	1.07	22.80	0.191	1.00	Pass
		16-QAM	RB1#0	21.64	1.07	22.71	0.187	1.00	Pass
			RB1#3	21.67	1.07	22.74	0.188	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
LTE BAND4									
3 MHz			RB1#5	21.58	1.07	22.65	0.184	1.00	Pass
			RB3#0	21.78	1.07	22.85	0.193	1.00	Pass
			RB3#2	21.75	1.07	22.82	0.191	1.00	Pass
			RB3#3	21.75	1.07	22.82	0.191	1.00	Pass
			RB6#0	20.65	1.07	21.72	0.149	1.00	Pass
	LCH	QPSK	RB1#0	22.68	1.07	23.75	0.237	1.00	Pass
			RB1#7	22.49	1.07	23.56	0.227	1.00	Pass
			RB1#14	22.62	1.07	23.69	0.234	1.00	Pass
			RB8#0	21.62	1.07	22.69	0.186	1.00	Pass
			RB8#4	21.65	1.07	22.72	0.187	1.00	Pass
			RB8#7	21.61	1.07	22.68	0.185	1.00	Pass
			RB15#0	21.62	1.07	22.69	0.186	1.00	Pass
		16-QAM	RB1#0	21.61	1.07	22.68	0.185	1.00	Pass
			RB1#7	21.36	1.07	22.43	0.175	1.00	Pass
			RB1#14	21.5	1.07	22.57	0.181	1.00	Pass
			RB8#0	20.48	1.07	21.55	0.143	1.00	Pass
			RB8#4	20.5	1.07	21.57	0.144	1.00	Pass
			RB8#7	20.66	1.07	21.73	0.149	1.00	Pass
			RB15#0	20.6	1.07	21.67	0.147	1.00	Pass
	MCH	QPSK	RB1#0	22.51	1.07	23.58	0.228	1.00	Pass
			RB1#7	22.46	1.07	23.53	0.225	1.00	Pass
			RB1#14	22.64	1.07	23.71	0.235	1.00	Pass
			RB8#0	21.51	1.07	22.58	0.181	1.00	Pass
			RB8#4	21.59	1.07	22.66	0.185	1.00	Pass
			RB8#7	21.6	1.07	22.67	0.185	1.00	Pass
			RB15#0	21.55	1.07	22.62	0.183	1.00	Pass
		16-QAM	RB1#0	21.32	1.07	22.39	0.173	1.00	Pass
			RB1#7	21.21	1.07	22.28	0.169	1.00	Pass
			RB1#14	21.3	1.07	22.37	0.173	1.00	Pass
			RB8#0	20.43	1.07	21.50	0.141	1.00	Pass
			RB8#4	20.51	1.07	21.58	0.144	1.00	Pass
			RB8#7	20.51	1.07	21.58	0.144	1.00	Pass
			RB15#0	20.54	1.07	21.61	0.145	1.00	Pass
	HCH	QPSK	RB1#0	22.43	1.07	23.50	0.224	1.00	Pass
			RB1#7	22.36	1.07	23.43	0.220	1.00	Pass
			RB1#14	22.49	1.07	23.56	0.227	1.00	Pass
			RB8#0	21.51	1.07	22.58	0.181	1.00	Pass
			RB8#4	21.58	1.07	22.65	0.184	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
LTE BAND4									
5 MHz			RB8#7	21.41	1.07	22.48	0.177	1.00	Pass
			RB15#0	21.59	1.07	22.66	0.185	1.00	Pass
		16-QAM	RB1#0	21.48	1.07	22.55	0.180	1.00	Pass
			RB1#7	21.43	1.07	22.50	0.178	1.00	Pass
			RB1#14	21.54	1.07	22.61	0.182	1.00	Pass
			RB8#0	20.4	1.07	21.47	0.140	1.00	Pass
			RB8#4	20.48	1.07	21.55	0.143	1.00	Pass
			RB8#7	20.42	1.07	21.49	0.141	1.00	Pass
			RB15#0	20.4	1.07	21.47	0.140	1.00	Pass
	LCH	QPSK	RB1#0	22.66	1.07	23.73	0.236	1.00	Pass
			RB1#13	22.56	1.07	23.63	0.231	1.00	Pass
			RB1#24	22.55	1.07	23.62	0.230	1.00	Pass
			RB12#0	21.53	1.07	22.60	0.182	1.00	Pass
			RB12#6	21.55	1.07	22.62	0.183	1.00	Pass
			RB12#13	21.63	1.07	22.70	0.186	1.00	Pass
			RB25#0	21.64	1.07	22.71	0.187	1.00	Pass
		16-QAM	RB1#0	21.36	1.07	22.43	0.175	1.00	Pass
			RB1#13	21.58	1.07	22.65	0.184	1.00	Pass
			RB1#24	21.24	1.07	22.31	0.170	1.00	Pass
			RB12#0	20.56	1.07	21.63	0.146	1.00	Pass
			RB12#6	20.49	1.07	21.56	0.143	1.00	Pass
			RB12#13	20.56	1.07	21.63	0.146	1.00	Pass
			RB25#0	20.61	1.07	21.68	0.147	1.00	Pass
	MCH	QPSK	RB1#0	22.41	1.07	23.48	0.223	1.00	Pass
			RB1#13	22.41	1.07	23.48	0.223	1.00	Pass
			RB1#24	22.58	1.07	23.65	0.232	1.00	Pass
			RB12#0	21.55	1.07	22.62	0.183	1.00	Pass
			RB12#6	21.58	1.07	22.65	0.184	1.00	Pass
			RB12#13	21.62	1.07	22.69	0.186	1.00	Pass
			RB25#0	21.55	1.07	22.62	0.183	1.00	Pass
		16-QAM	RB1#0	21.63	1.07	22.70	0.186	1.00	Pass
			RB1#13	21.26	1.07	22.33	0.171	1.00	Pass
			RB1#24	21.25	1.07	22.32	0.171	1.00	Pass
			RB12#0	20.36	1.07	21.43	0.139	1.00	Pass
			RB12#6	20.39	1.07	21.46	0.140	1.00	Pass
			RB12#13	20.43	1.07	21.50	0.141	1.00	Pass
			RB25#0	20.58	1.07	21.65	0.146	1.00	Pass
	HCH	QPSK	RB1#0	22.47	1.07	23.54	0.226	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
LTE BAND4									
			RB1#13	22.58	1.07	23.65	0.232	1.00	Pass
			RB1#24	22.6	1.07	23.67	0.233	1.00	Pass
			RB12#0	21.65	1.07	22.72	0.187	1.00	Pass
			RB12#6	21.53	1.07	22.60	0.182	1.00	Pass
			RB12#13	21.62	1.07	22.69	0.186	1.00	Pass
			RB25#0	21.66	1.07	22.73	0.187	1.00	Pass
		16-QAM	RB1#0	21.38	1.07	22.45	0.176	1.00	Pass
			RB1#13	20.87	1.07	21.94	0.156	1.00	Pass
			RB1#24	21.05	1.07	22.12	0.163	1.00	Pass
			RB12#0	20.66	1.07	21.73	0.149	1.00	Pass
			RB12#6	20.6	1.07	21.67	0.147	1.00	Pass
			RB12#13	20.71	1.07	21.78	0.151	1.00	Pass
			RB25#0	20.75	1.07	21.82	0.152	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	22.66	1.07	23.73	0.236	1.00	Pass
			RB1#25	22.51	1.07	23.58	0.228	1.00	Pass
			RB1#49	22.44	1.07	23.51	0.224	1.00	Pass
			RB25#0	21.64	1.07	22.71	0.187	1.00	Pass
			RB25#13	21.59	1.07	22.66	0.185	1.00	Pass
			RB25#25	21.57	1.07	22.64	0.184	1.00	Pass
			RB50#0	21.56	1.07	22.63	0.183	1.00	Pass
		16-QAM	RB1#0	21.57	1.07	22.64	0.184	1.00	Pass
			RB1#25	21.47	1.07	22.54	0.179	1.00	Pass
			RB1#49	21.24	1.07	22.31	0.170	1.00	Pass
			RB25#0	20.71	1.07	21.78	0.151	1.00	Pass
			RB25#13	20.66	1.07	21.73	0.149	1.00	Pass
			RB25#25	20.54	1.07	21.61	0.145	1.00	Pass
			RB50#0	20.52	1.07	21.59	0.144	1.00	Pass
	MCH	QPSK	RB1#0	22.5	1.07	23.57	0.228	1.00	Pass
			RB1#25	22.5	1.07	23.57	0.228	1.00	Pass
			RB1#49	22.62	1.07	23.69	0.234	1.00	Pass
			RB25#0	21.54	1.07	22.61	0.182	1.00	Pass
			RB25#13	21.6	1.07	22.67	0.185	1.00	Pass
			RB25#25	21.61	1.07	22.68	0.185	1.00	Pass
			RB50#0	21.58	1.07	22.65	0.184	1.00	Pass
		16-QAM	RB1#0	21.38	1.07	22.45	0.176	1.00	Pass
			RB1#25	21.36	1.07	22.43	0.175	1.00	Pass
			RB1#49	21.16	1.07	22.23	0.167	1.00	Pass
			RB25#0	20.55	1.07	21.62	0.145	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
LTE BAND4									
15 MHz	HCH		RB25#13	20.67	1.07	21.74	0.149	1.00	Pass
			RB25#25	20.58	1.07	21.65	0.146	1.00	Pass
			RB50#0	20.56	1.07	21.63	0.146	1.00	Pass
		QPSK	RB1#0	22.54	1.07	23.61	0.230	1.00	Pass
			RB1#25	22.49	1.07	23.56	0.227	1.00	Pass
			RB1#49	22.73	1.07	23.80	0.240	1.00	Pass
			RB25#0	21.63	1.07	22.70	0.186	1.00	Pass
			RB25#13	21.54	1.07	22.61	0.182	1.00	Pass
			RB25#25	21.5	1.07	22.57	0.181	1.00	Pass
			RB50#0	21.68	1.07	22.75	0.188	1.00	Pass
		16-QAM	RB1#0	21.64	1.07	22.71	0.187	1.00	Pass
			RB1#25	21.53	1.07	22.60	0.182	1.00	Pass
			RB1#49	21.35	1.07	22.42	0.175	1.00	Pass
			RB25#0	20.71	1.07	21.78	0.151	1.00	Pass
			RB25#13	20.63	1.07	21.70	0.148	1.00	Pass
			RB25#25	20.61	1.07	21.68	0.147	1.00	Pass
			RB50#0	20.55	1.07	21.62	0.145	1.00	Pass
15 MHz	LCH	QPSK	RB1#0	22.64	1.07	23.71	0.235	1.00	Pass
			RB1#38	22.46	1.07	23.53	0.225	1.00	Pass
			RB1#74	22.51	1.07	23.58	0.228	1.00	Pass
			RB36#0	21.52	1.07	22.59	0.182	1.00	Pass
			RB36#19	21.53	1.07	22.60	0.182	1.00	Pass
			RB36#39	21.39	1.07	22.46	0.176	1.00	Pass
			RB75#0	21.55	1.07	22.62	0.183	1.00	Pass
		16-QAM	RB1#0	21.72	1.07	22.79	0.190	1.00	Pass
			RB1#38	22.01	1.07	23.08	0.203	1.00	Pass
			RB1#74	21.49	1.07	22.56	0.180	1.00	Pass
			RB36#0	20.56	1.07	21.63	0.146	1.00	Pass
			RB36#19	20.48	1.07	21.55	0.143	1.00	Pass
			RB36#39	20.36	1.07	21.43	0.139	1.00	Pass
			RB75#0	20.53	1.07	21.60	0.145	1.00	Pass
	MCH	QPSK	RB1#0	22.43	1.07	23.50	0.224	1.00	Pass
			RB1#38	22.44	1.07	23.51	0.224	1.00	Pass
			RB1#74	22.56	1.07	23.63	0.231	1.00	Pass
			RB36#0	21.55	1.07	22.62	0.183	1.00	Pass
			RB36#19	21.55	1.07	22.62	0.183	1.00	Pass
			RB36#39	21.63	1.07	22.70	0.186	1.00	Pass
			RB75#0	21.55	1.07	22.62	0.183	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
LTE BAND4									
20 MHz	HCH	16-QAM	RB1#0	21.41	1.07	22.48	0.177	1.00	Pass
			RB1#38	21.41	1.07	22.48	0.177	1.00	Pass
			RB1#74	21.35	1.07	22.42	0.175	1.00	Pass
			RB36#0	20.54	1.07	21.61	0.145	1.00	Pass
			RB36#19	20.58	1.07	21.65	0.146	1.00	Pass
			RB36#39	20.62	1.07	21.69	0.148	1.00	Pass
			RB75#0	20.48	1.07	21.55	0.143	1.00	Pass
		QPSK	RB1#0	22.59	1.07	23.66	0.232	1.00	Pass
			RB1#38	22.45	1.07	23.52	0.225	1.00	Pass
			RB1#74	22.63	1.07	23.70	0.234	1.00	Pass
			RB36#0	21.59	1.07	22.66	0.185	1.00	Pass
			RB36#19	21.43	1.07	22.50	0.178	1.00	Pass
			RB36#39	21.61	1.07	22.68	0.185	1.00	Pass
			RB75#0	21.48	1.07	22.55	0.180	1.00	Pass
		16-QAM	RB1#0	22.03	1.07	23.10	0.204	1.00	Pass
			RB1#38	21.94	1.07	23.01	0.200	1.00	Pass
			RB1#74	22.26	1.07	23.33	0.215	1.00	Pass
			RB36#0	20.67	1.07	21.74	0.149	1.00	Pass
			RB36#19	20.57	1.07	21.64	0.146	1.00	Pass
			RB36#39	20.62	1.07	21.69	0.148	1.00	Pass
			RB75#0	20.56	1.07	21.63	0.146	1.00	Pass
	LCH	QPSK	RB1#0	22.31	1.07	23.38	0.218	1.00	Pass
			RB1#50	22.43	1.07	23.50	0.224	1.00	Pass
			RB1#99	22.3	1.07	23.37	0.217	1.00	Pass
			RB50#0	21.55	1.07	22.62	0.183	1.00	Pass
			RB50#25	21.53	1.07	22.60	0.182	1.00	Pass
			RB50#50	21.5	1.07	22.57	0.181	1.00	Pass
			RB100#0	21.38	1.07	22.45	0.176	1.00	Pass
			RB1#0	21.69	1.07	22.76	0.189	1.00	Pass
		16-QAM	RB1#50	21.76	1.07	22.83	0.192	1.00	Pass
			RB1#99	21.14	1.07	22.21	0.166	1.00	Pass
			RB50#0	20.62	1.07	21.69	0.148	1.00	Pass
			RB50#25	20.61	1.07	21.68	0.147	1.00	Pass
			RB50#50	20.58	1.07	21.65	0.146	1.00	Pass
			RB100#0	20.48	1.07	21.55	0.143	1.00	Pass
			RB1#0	22.63	1.07	23.70	0.234	1.00	Pass
		QPSK	RB1#50	22.87	1.07	23.94	0.248	1.00	Pass
			RB1#99	22.62	1.07	23.69	0.234	1.00	Pass
	MCH	QPSK	RB1#0	22.63	1.07	23.70	0.234	1.00	Pass
			RB1#50	22.87	1.07	23.94	0.248	1.00	Pass
			RB1#99	22.62	1.07	23.69	0.234	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
LTE BAND4									
			RB50#0	21.52	1.07	22.59	0.182	1.00	Pass
			RB50#25	21.59	1.07	22.66	0.185	1.00	Pass
			RB50#50	21.68	1.07	22.75	0.188	1.00	Pass
			RB100#0	21.48	1.07	22.55	0.180	1.00	Pass
		16-QAM	RB1#0	22.01	1.07	23.08	0.203	1.00	Pass
			RB1#50	22.19	1.07	23.26	0.212	1.00	Pass
			RB1#99	20.98	1.07	22.05	0.160	1.00	Pass
			RB50#0	20.36	1.07	21.43	0.139	1.00	Pass
			RB50#25	20.48	1.07	21.55	0.143	1.00	Pass
			RB50#50	20.55	1.07	21.62	0.145	1.00	Pass
			RB100#0	20.42	1.07	21.49	0.141	1.00	Pass
	HCH	QPSK	RB1#0	22.53	1.07	23.60	0.229	1.00	Pass
			RB1#50	22.51	1.07	23.58	0.228	1.00	Pass
			RB1#99	22.55	1.07	23.62	0.230	1.00	Pass
			RB50#0	21.66	1.07	22.73	0.187	1.00	Pass
			RB50#25	21.47	1.07	22.54	0.179	1.00	Pass
			RB50#50	21.42	1.07	22.49	0.177	1.00	Pass
			RB100#0	21.48	1.07	22.55	0.180	1.00	Pass
		16-QAM	RB1#0	21.17	1.07	22.24	0.167	1.00	Pass
			RB1#50	21.37	1.07	22.44	0.175	1.00	Pass
			RB1#99	21.22	1.07	22.29	0.169	1.00	Pass
			RB50#0	20.59	1.07	21.66	0.147	1.00	Pass
			RB50#25	20.44	1.07	21.51	0.142	1.00	Pass
			RB50#50	20.39	1.07	21.46	0.140	1.00	Pass
			RB100#0	20.47	1.07	21.54	0.143	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
1.4 MHz	LCH	QPSK	RB1#0	23.68	-0.84	-2.99	20.69	0.117	7.00	Pass
			RB1#3	23.89	-0.84	-2.99	20.90	0.123	7.00	Pass
			RB1#5	23.81	-0.84	-2.99	20.82	0.121	7.00	Pass
			RB3#0	23.8	-0.84	-2.99	20.81	0.121	7.00	Pass
			RB3#2	23.82	-0.84	-2.99	20.83	0.121	7.00	Pass
			RB3#3	23.78	-0.84	-2.99	20.79	0.120	7.00	Pass
			RB6#0	22.82	-0.84	-2.99	19.83	0.096	7.00	Pass
		16-QAM	RB1#0	22.94	-0.84	-2.99	19.95	0.099	7.00	Pass
			RB1#3	23.18	-0.84	-2.99	20.19	0.104	7.00	Pass
			RB1#5	23.02	-0.84	-2.99	20.03	0.101	7.00	Pass
			RB3#0	22.94	-0.84	-2.99	19.95	0.099	7.00	Pass
			RB3#2	23.06	-0.84	-2.99	20.07	0.102	7.00	Pass
			RB3#3	23.07	-0.84	-2.99	20.08	0.102	7.00	Pass
			RB6#0	21.98	-0.84	-2.99	18.99	0.079	7.00	Pass
	MCH	QPSK	RB1#0	23.36	-0.84	-2.99	20.37	0.109	7.00	Pass
			RB1#3	23.51	-0.84	-2.99	20.52	0.113	7.00	Pass
			RB1#5	23.46	-0.84	-2.99	20.47	0.111	7.00	Pass
			RB3#0	23.5	-0.84	-2.99	20.51	0.112	7.00	Pass
			RB3#2	23.61	-0.84	-2.99	20.62	0.115	7.00	Pass
			RB3#3	23.54	-0.84	-2.99	20.55	0.114	7.00	Pass
			RB6#0	22.67	-0.84	-2.99	19.68	0.093	7.00	Pass
		16-QAM	RB1#0	22.6	-0.84	-2.99	19.61	0.091	7.00	Pass
			RB1#3	22.37	-0.84	-2.99	19.38	0.087	7.00	Pass
			RB1#5	22.31	-0.84	-2.99	19.32	0.086	7.00	Pass
			RB3#0	22.37	-0.84	-2.99	19.38	0.087	7.00	Pass
			RB3#2	22.37	-0.84	-2.99	19.38	0.087	7.00	Pass
			RB3#3	22.3	-0.84	-2.99	19.31	0.085	7.00	Pass
			RB6#0	21.35	-0.84	-2.99	18.36	0.069	7.00	Pass
	HCH	QPSK	RB1#0	23.52	-0.84	-2.99	20.53	0.113	7.00	Pass
			RB1#3	23.54	-0.84	-2.99	20.55	0.114	7.00	Pass
			RB1#5	23.31	-0.84	-2.99	20.32	0.108	7.00	Pass
			RB3#0	23.6	-0.84	-2.99	20.61	0.115	7.00	Pass
			RB3#2	23.54	-0.84	-2.99	20.55	0.114	7.00	Pass
			RB3#3	23.49	-0.84	-2.99	20.50	0.112	7.00	Pass
			RB6#0	22.56	-0.84	-2.99	19.57	0.091	7.00	Pass
		16-QAM	RB1#0	22.48	-0.84	-2.99	19.49	0.089	7.00	Pass
			RB1#3	22.42	-0.84	-2.99	19.43	0.088	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
3 MHz			RB1#5	22.47	-0.84	-2.99	19.48	0.089	7.00	Pass
			RB3#0	23.05	-0.84	-2.99	20.06	0.101	7.00	Pass
			RB3#2	22.99	-0.84	-2.99	20.00	0.100	7.00	Pass
			RB3#3	22.94	-0.84	-2.99	19.95	0.099	7.00	Pass
			RB6#0	21.57	-0.84	-2.99	18.58	0.072	7.00	Pass
	LCH	QPSK	RB1#0	23.56	-0.84	-2.99	20.57	0.114	7.00	Pass
			RB1#7	23.69	-0.84	-2.99	20.70	0.117	7.00	Pass
			RB1#14	23.75	-0.84	-2.99	20.76	0.119	7.00	Pass
			RB8#0	22.75	-0.84	-2.99	19.76	0.095	7.00	Pass
			RB8#4	22.85	-0.84	-2.99	19.86	0.097	7.00	Pass
			RB8#7	22.84	-0.84	-2.99	19.85	0.097	7.00	Pass
			RB15#0	22.82	-0.84	-2.99	19.83	0.096	7.00	Pass
		16-QAM	RB1#0	22.7	-0.84	-2.99	19.71	0.094	7.00	Pass
			RB1#7	22.71	-0.84	-2.99	19.72	0.094	7.00	Pass
			RB1#14	22.97	-0.84	-2.99	19.98	0.100	7.00	Pass
			RB8#0	21.59	-0.84	-2.99	18.60	0.072	7.00	Pass
			RB8#4	22.26	-0.84	-2.99	19.27	0.085	7.00	Pass
			RB8#7	22.25	-0.84	-2.99	19.26	0.084	7.00	Pass
			RB15#0	22.09	-0.84	-2.99	19.10	0.081	7.00	Pass
	MCH	QPSK	RB1#0	23.51	-0.84	-2.99	20.52	0.113	7.00	Pass
			RB1#7	23.58	-0.84	-2.99	20.59	0.115	7.00	Pass
			RB1#14	23.56	-0.84	-2.99	20.57	0.114	7.00	Pass
			RB8#0	22.74	-0.84	-2.99	19.75	0.094	7.00	Pass
			RB8#4	22.74	-0.84	-2.99	19.75	0.094	7.00	Pass
			RB8#7	22.66	-0.84	-2.99	19.67	0.093	7.00	Pass
			RB15#0	22.62	-0.84	-2.99	19.63	0.092	7.00	Pass
		16-QAM	RB1#0	22.45	-0.84	-2.99	19.46	0.088	7.00	Pass
			RB1#7	22.2	-0.84	-2.99	19.21	0.083	7.00	Pass
			RB1#14	22.31	-0.84	-2.99	19.32	0.086	7.00	Pass
			RB8#0	21.55	-0.84	-2.99	18.56	0.072	7.00	Pass
			RB8#4	21.56	-0.84	-2.99	18.57	0.072	7.00	Pass
			RB8#7	21.47	-0.84	-2.99	18.48	0.070	7.00	Pass
			RB15#0	21.65	-0.84	-2.99	18.66	0.073	7.00	Pass
	HCH	QPSK	RB1#0	23.55	-0.84	-2.99	20.56	0.114	7.00	Pass
			RB1#7	23.48	-0.84	-2.99	20.49	0.112	7.00	Pass
			RB1#14	23.51	-0.84	-2.99	20.52	0.113	7.00	Pass
			RB8#0	22.68	-0.84	-2.99	19.69	0.093	7.00	Pass
			RB8#4	22.61	-0.84	-2.99	19.62	0.092	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
		16-QAM	RB8#7	22.54	-0.84	-2.99	19.55	0.090	7.00	Pass
			RB15#0	22.71	-0.84	-2.99	19.72	0.094	7.00	Pass
			RB1#0	22.65	-0.84	-2.99	19.66	0.092	7.00	Pass
			RB1#7	22.56	-0.84	-2.99	19.57	0.091	7.00	Pass
			RB1#14	22.41	-0.84	-2.99	19.42	0.087	7.00	Pass
			RB8#0	21.83	-0.84	-2.99	18.84	0.077	7.00	Pass
			RB8#4	21.77	-0.84	-2.99	18.78	0.076	7.00	Pass
			RB8#7	21.72	-0.84	-2.99	18.73	0.075	7.00	Pass
			RB15#0	21.77	-0.84	-2.99	18.78	0.076	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	23.39	-0.84	-2.99	20.40	0.110	7.00	Pass
			RB1#13	23.63	-0.84	-2.99	20.64	0.116	7.00	Pass
			RB1#24	23.63	-0.84	-2.99	20.64	0.116	7.00	Pass
			RB12#0	22.81	-0.84	-2.99	19.82	0.096	7.00	Pass
			RB12#6	22.78	-0.84	-2.99	19.79	0.095	7.00	Pass
			RB12#13	22.77	-0.84	-2.99	19.78	0.095	7.00	Pass
			RB25#0	22.85	-0.84	-2.99	19.86	0.097	7.00	Pass
		16-QAM	RB1#0	22.3	-0.84	-2.99	19.31	0.085	7.00	Pass
			RB1#13	22.45	-0.84	-2.99	19.46	0.088	7.00	Pass
			RB1#24	22.4	-0.84	-2.99	19.41	0.087	7.00	Pass
			RB12#0	21.72	-0.84	-2.99	18.73	0.075	7.00	Pass
			RB12#6	21.61	-0.84	-2.99	18.62	0.073	7.00	Pass
			RB12#13	21.61	-0.84	-2.99	18.62	0.073	7.00	Pass
			RB25#0	21.8	-0.84	-2.99	18.81	0.076	7.00	Pass
	MCH	QPSK	RB1#0	23.31	-0.84	-2.99	20.32	0.108	7.00	Pass
			RB1#13	23.46	-0.84	-2.99	20.47	0.111	7.00	Pass
			RB1#24	23.42	-0.84	-2.99	20.43	0.110	7.00	Pass
			RB12#0	22.66	-0.84	-2.99	19.67	0.093	7.00	Pass
			RB12#6	22.65	-0.84	-2.99	19.66	0.092	7.00	Pass
			RB12#13	22.58	-0.84	-2.99	19.59	0.091	7.00	Pass
			RB25#0	22.67	-0.84	-2.99	19.68	0.093	7.00	Pass
		16-QAM	RB1#0	22.6	-0.84	-2.99	19.61	0.091	7.00	Pass
			RB1#13	22.18	-0.84	-2.99	19.19	0.083	7.00	Pass
			RB1#24	22.09	-0.84	-2.99	19.10	0.081	7.00	Pass
			RB12#0	21.55	-0.84	-2.99	18.56	0.072	7.00	Pass
			RB12#6	21.62	-0.84	-2.99	18.63	0.073	7.00	Pass
			RB12#13	21.56	-0.84	-2.99	18.57	0.072	7.00	Pass
			RB25#0	21.57	-0.84	-2.99	18.58	0.072	7.00	Pass
	HCH	QPSK	RB1#0	23.48	-0.84	-2.99	20.49	0.112	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
			RB1#13	23.62	-0.84	-2.99	20.63	0.116	7.00	Pass
			RB1#24	23.47	-0.84	-2.99	20.48	0.112	7.00	Pass
			RB12#0	22.7	-0.84	-2.99	19.71	0.094	7.00	Pass
			RB12#6	22.64	-0.84	-2.99	19.65	0.092	7.00	Pass
			RB12#13	22.5	-0.84	-2.99	19.51	0.089	7.00	Pass
			RB25#0	22.58	-0.84	-2.99	19.59	0.091	7.00	Pass
		16-QAM	RB1#0	22.46	-0.84	-2.99	19.47	0.089	7.00	Pass
			RB1#13	22.47	-0.84	-2.99	19.48	0.089	7.00	Pass
			RB1#24	22.22	-0.84	-2.99	19.23	0.084	7.00	Pass
			RB12#0	21.57	-0.84	-2.99	18.58	0.072	7.00	Pass
			RB12#6	21.52	-0.84	-2.99	18.53	0.071	7.00	Pass
			RB12#13	21.43	-0.84	-2.99	18.44	0.070	7.00	Pass
			RB25#0	21.49	-0.84	-2.99	18.50	0.071	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	23.72	-0.84	-2.99	20.73	0.118	7.00	Pass
			RB1#25	23.86	-0.84	-2.99	20.87	0.122	7.00	Pass
			RB1#49	23.7	-0.84	-2.99	20.71	0.118	7.00	Pass
			RB25#0	22.71	-0.84	-2.99	19.72	0.094	7.00	Pass
			RB25#13	22.76	-0.84	-2.99	19.77	0.095	7.00	Pass
			RB25#25	22.67	-0.84	-2.99	19.68	0.093	7.00	Pass
			RB50#0	22.73	-0.84	-2.99	19.74	0.094	7.00	Pass
		16-QAM	RB1#0	22.68	-0.84	-2.99	19.69	0.093	7.00	Pass
			RB1#25	22.71	-0.84	-2.99	19.72	0.094	7.00	Pass
			RB1#49	22.51	-0.84	-2.99	19.52	0.090	7.00	Pass
			RB25#0	21.63	-0.84	-2.99	18.64	0.073	7.00	Pass
			RB25#13	21.6	-0.84	-2.99	18.61	0.073	7.00	Pass
			RB25#25	21.51	-0.84	-2.99	18.52	0.071	7.00	Pass
			RB50#0	21.72	-0.84	-2.99	18.73	0.075	7.00	Pass
	MCH	QPSK	RB1#0	23.45	-0.84	-2.99	20.46	0.111	7.00	Pass
			RB1#25	23.63	-0.84	-2.99	20.64	0.116	7.00	Pass
			RB1#49	23.52	-0.84	-2.99	20.53	0.113	7.00	Pass
			RB25#0	22.64	-0.84	-2.99	19.65	0.092	7.00	Pass
			RB25#13	22.57	-0.84	-2.99	19.58	0.091	7.00	Pass
			RB25#25	22.55	-0.84	-2.99	19.56	0.090	7.00	Pass
			RB50#0	22.65	-0.84	-2.99	19.66	0.092	7.00	Pass
		16-QAM	RB1#0	22.42	-0.84	-2.99	19.43	0.088	7.00	Pass
			RB1#25	22.37	-0.84	-2.99	19.38	0.087	7.00	Pass
			RB1#49	21.95	-0.84	-2.99	18.96	0.079	7.00	Pass
			RB25#0	21.86	-0.84	-2.99	18.87	0.077	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
			RB25#13	21.87	-0.84	-2.99	18.88	0.077	7.00	Pass
			RB25#25	21.75	-0.84	-2.99	18.76	0.075	7.00	Pass
			RB50#0	21.66	-0.84	-2.99	18.67	0.074	7.00	Pass
	HCH	QPSK	RB1#0	23.56	-0.84	-2.99	20.57	0.114	7.00	Pass
			RB1#25	23.78	-0.84	-2.99	20.79	0.120	7.00	Pass
			RB1#49	23.5	-0.84	-2.99	20.51	0.112	7.00	Pass
			RB25#0	22.64	-0.84	-2.99	19.65	0.092	7.00	Pass
			RB25#13	22.71	-0.84	-2.99	19.72	0.094	7.00	Pass
			RB25#25	22.65	-0.84	-2.99	19.66	0.092	7.00	Pass
			RB50#0	22.62	-0.84	-2.99	19.63	0.092	7.00	Pass
		16-QAM	RB1#0	22.54	-0.84	-2.99	19.55	0.090	7.00	Pass
			RB1#25	22.5	-0.84	-2.99	19.51	0.089	7.00	Pass
			RB1#49	22.54	-0.84	-2.99	19.55	0.090	7.00	Pass
			RB25#0	21.79	-0.84	-2.99	18.80	0.076	7.00	Pass
			RB25#13	21.89	-0.84	-2.99	18.90	0.078	7.00	Pass
			RB25#25	21.91	-0.84	-2.99	18.92	0.078	7.00	Pass
			RB50#0	21.66	-0.84	-2.99	18.67	0.074	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
1.4 MHz	LCH	QPSK	RB1#0	23.17	-0.45	-2.6	20.57	0.114	3.00	Pass
			RB1#3	23.11	-0.45	-2.6	20.51	0.112	3.00	Pass
			RB1#5	23.2	-0.45	-2.6	20.60	0.115	3.00	Pass
			RB3#0	23.15	-0.45	-2.6	20.55	0.114	3.00	Pass
			RB3#2	23.16	-0.45	-2.6	20.56	0.114	3.00	Pass
			RB3#3	23.01	-0.45	-2.6	20.41	0.110	3.00	Pass
			RB6#0	22.14	-0.45	-2.6	19.54	0.090	3.00	Pass
		16-QAM	RB1#0	22.33	-0.45	-2.6	19.73	0.094	3.00	Pass
			RB1#3	22.12	-0.45	-2.6	19.52	0.090	3.00	Pass
			RB1#5	21.87	-0.45	-2.6	19.27	0.085	3.00	Pass
			RB3#0	22.07	-0.45	-2.6	19.47	0.089	3.00	Pass
			RB3#2	22.22	-0.45	-2.6	19.62	0.092	3.00	Pass
			RB3#3	22.34	-0.45	-2.6	19.74	0.094	3.00	Pass
			RB6#0	21.46	-0.45	-2.6	18.86	0.077	3.00	Pass
	MCH	QPSK	RB1#0	22.87	-0.45	-2.6	20.27	0.106	3.00	Pass
			RB1#3	22.96	-0.45	-2.6	20.36	0.109	3.00	Pass
			RB1#5	22.81	-0.45	-2.6	20.21	0.105	3.00	Pass
			RB3#0	22.93	-0.45	-2.6	20.33	0.108	3.00	Pass
			RB3#2	22.93	-0.45	-2.6	20.33	0.108	3.00	Pass
			RB3#3	22.88	-0.45	-2.6	20.28	0.107	3.00	Pass
			RB6#0	21.99	-0.45	-2.6	19.39	0.087	3.00	Pass
		16-QAM	RB1#0	22.08	-0.45	-2.6	19.48	0.089	3.00	Pass
			RB1#3	21.85	-0.45	-2.6	19.25	0.084	3.00	Pass
			RB1#5	21.8	-0.45	-2.6	19.20	0.083	3.00	Pass
			RB3#0	21.78	-0.45	-2.6	19.18	0.083	3.00	Pass
			RB3#2	21.77	-0.45	-2.6	19.17	0.083	3.00	Pass
			RB3#3	21.79	-0.45	-2.6	19.19	0.083	3.00	Pass
			RB6#0	20.76	-0.45	-2.6	18.16	0.065	3.00	Pass
	HCH	QPSK	RB1#0	22.73	-0.45	-2.6	20.13	0.103	3.00	Pass
			RB1#3	22.81	-0.45	-2.6	20.21	0.105	3.00	Pass
			RB1#5	22.75	-0.45	-2.6	20.15	0.104	3.00	Pass
			RB3#0	22.89	-0.45	-2.6	20.29	0.107	3.00	Pass
			RB3#2	22.92	-0.45	-2.6	20.32	0.108	3.00	Pass
			RB3#3	22.85	-0.45	-2.6	20.25	0.106	3.00	Pass
			RB6#0	21.86	-0.45	-2.6	19.26	0.084	3.00	Pass
		16-QAM	RB1#0	21.77	-0.45	-2.6	19.17	0.083	3.00	Pass
			RB1#3	21.8	-0.45	-2.6	19.20	0.083	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 BAND12										
3 MHz			RB1#5	21.77	-0.45	-2.6	19.17	0.083	3.00	Pass
			RB3#0	22.13	-0.45	-2.6	19.53	0.090	3.00	Pass
			RB3#2	22.18	-0.45	-2.6	19.58	0.091	3.00	Pass
			RB3#3	22.01	-0.45	-2.6	19.41	0.087	3.00	Pass
			RB6#0	21.06	-0.45	-2.6	18.46	0.070	3.00	Pass
	LCH	QPSK	RB1#0	22.88	-0.45	-2.6	20.28	0.107	3.00	Pass
			RB1#7	22.95	-0.45	-2.6	20.35	0.108	3.00	Pass
			RB1#14	22.83	-0.45	-2.6	20.23	0.105	3.00	Pass
			RB8#0	22.17	-0.45	-2.6	19.57	0.091	3.00	Pass
			RB8#4	22.12	-0.45	-2.6	19.52	0.090	3.00	Pass
			RB8#7	22	-0.45	-2.6	19.40	0.087	3.00	Pass
			RB15#0	22.15	-0.45	-2.6	19.55	0.090	3.00	Pass
		16-QAM	RB1#0	22.17	-0.45	-2.6	19.57	0.091	3.00	Pass
			RB1#7	22.28	-0.45	-2.6	19.68	0.093	3.00	Pass
			RB1#14	22.2	-0.45	-2.6	19.60	0.091	3.00	Pass
			RB8#0	21.5	-0.45	-2.6	18.90	0.078	3.00	Pass
			RB8#4	21.48	-0.45	-2.6	18.88	0.077	3.00	Pass
			RB8#7	21.46	-0.45	-2.6	18.86	0.077	3.00	Pass
			RB15#0	21.37	-0.45	-2.6	18.77	0.075	3.00	Pass
	MCH	QPSK	RB1#0	22.83	-0.45	-2.6	20.23	0.105	3.00	Pass
			RB1#7	22.86	-0.45	-2.6	20.26	0.106	3.00	Pass
			RB1#14	22.64	-0.45	-2.6	20.04	0.101	3.00	Pass
			RB8#0	21.98	-0.45	-2.6	19.38	0.087	3.00	Pass
			RB8#4	22.03	-0.45	-2.6	19.43	0.088	3.00	Pass
			RB8#7	22.04	-0.45	-2.6	19.44	0.088	3.00	Pass
			RB15#0	22.05	-0.45	-2.6	19.45	0.088	3.00	Pass
		16-QAM	RB1#0	21.81	-0.45	-2.6	19.21	0.083	3.00	Pass
			RB1#7	21.86	-0.45	-2.6	19.26	0.084	3.00	Pass
			RB1#14	21.73	-0.45	-2.6	19.13	0.082	3.00	Pass
			RB8#0	21.02	-0.45	-2.6	18.42	0.070	3.00	Pass
			RB8#4	20.96	-0.45	-2.6	18.36	0.069	3.00	Pass
			RB8#7	20.96	-0.45	-2.6	18.36	0.069	3.00	Pass
			RB15#0	21.07	-0.45	-2.6	18.47	0.070	3.00	Pass
	HCH	QPSK	RB1#0	22.72	-0.45	-2.6	20.12	0.103	3.00	Pass
			RB1#7	22.91	-0.45	-2.6	20.31	0.107	3.00	Pass
			RB1#14	22.8	-0.45	-2.6	20.20	0.105	3.00	Pass
			RB8#0	21.85	-0.45	-2.6	19.25	0.084	3.00	Pass
			RB8#4	21.97	-0.45	-2.6	19.37	0.086	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 BAND12										
		16-QAM	RB8#7	21.9	-0.45	-2.6	19.30	0.085	3.00	Pass
			RB15#0	21.89	-0.45	-2.6	19.29	0.085	3.00	Pass
			RB1#0	21.81	-0.45	-2.6	19.21	0.083	3.00	Pass
			RB1#7	21.86	-0.45	-2.6	19.26	0.084	3.00	Pass
			RB1#14	21.71	-0.45	-2.6	19.11	0.081	3.00	Pass
			RB8#0	20.99	-0.45	-2.6	18.39	0.069	3.00	Pass
			RB8#4	21.02	-0.45	-2.6	18.42	0.070	3.00	Pass
			RB8#7	20.96	-0.45	-2.6	18.36	0.069	3.00	Pass
			RB15#0	20.78	-0.45	-2.6	18.18	0.066	3.00	Pass
5 MHz	LCH	QPSK	RB1#0	22.8	-0.45	-2.6	20.20	0.105	3.00	Pass
			RB1#13	22.89	-0.45	-2.6	20.29	0.107	3.00	Pass
			RB1#24	22.89	-0.45	-2.6	20.29	0.107	3.00	Pass
			RB12#0	22.05	-0.45	-2.6	19.45	0.088	3.00	Pass
			RB12#6	22.09	-0.45	-2.6	19.49	0.089	3.00	Pass
			RB12#13	21.98	-0.45	-2.6	19.38	0.087	3.00	Pass
			RB25#0	21.98	-0.45	-2.6	19.38	0.087	3.00	Pass
		16-QAM	RB1#0	21.69	-0.45	-2.6	19.09	0.081	3.00	Pass
			RB1#13	21.66	-0.45	-2.6	19.06	0.081	3.00	Pass
			RB1#24	21.55	-0.45	-2.6	18.95	0.079	3.00	Pass
			RB12#0	20.95	-0.45	-2.6	18.35	0.068	3.00	Pass
			RB12#6	21	-0.45	-2.6	18.40	0.069	3.00	Pass
			RB12#13	21.01	-0.45	-2.6	18.41	0.069	3.00	Pass
			RB25#0	21.02	-0.45	-2.6	18.42	0.070	3.00	Pass
	MCH	QPSK	RB1#0	22.8	-0.45	-2.6	20.20	0.105	3.00	Pass
			RB1#13	22.92	-0.45	-2.6	20.32	0.108	3.00	Pass
			RB1#24	22.64	-0.45	-2.6	20.04	0.101	3.00	Pass
			RB12#0	22.07	-0.45	-2.6	19.47	0.089	3.00	Pass
			RB12#6	22.12	-0.45	-2.6	19.52	0.090	3.00	Pass
			RB12#13	22.05	-0.45	-2.6	19.45	0.088	3.00	Pass
			RB25#0	22.08	-0.45	-2.6	19.48	0.089	3.00	Pass
		16-QAM	RB1#0	21.68	-0.45	-2.6	19.08	0.081	3.00	Pass
			RB1#13	21.86	-0.45	-2.6	19.26	0.084	3.00	Pass
			RB1#24	21.56	-0.45	-2.6	18.96	0.079	3.00	Pass
			RB12#0	20.98	-0.45	-2.6	18.38	0.069	3.00	Pass
			RB12#6	21.02	-0.45	-2.6	18.42	0.070	3.00	Pass
			RB12#13	21.06	-0.45	-2.6	18.46	0.070	3.00	Pass
			RB25#0	21.24	-0.45	-2.6	18.64	0.073	3.00	Pass
	HCH	QPSK	RB1#0	22.6	-0.45	-2.6	20.00	0.100	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 BAND12										
			RB1#13	22.91	-0.45	-2.6	20.31	0.107	3.00	Pass
			RB1#24	22.76	-0.45	-2.6	20.16	0.104	3.00	Pass
			RB12#0	21.81	-0.45	-2.6	19.21	0.083	3.00	Pass
			RB12#6	22	-0.45	-2.6	19.40	0.087	3.00	Pass
			RB12#13	21.95	-0.45	-2.6	19.35	0.086	3.00	Pass
			RB25#0	21.83	-0.45	-2.6	19.23	0.084	3.00	Pass
		16-QAM	RB1#0	21.75	-0.45	-2.6	19.15	0.082	3.00	Pass
			RB1#13	21.73	-0.45	-2.6	19.13	0.082	3.00	Pass
			RB1#24	21.67	-0.45	-2.6	19.07	0.081	3.00	Pass
			RB12#0	20.71	-0.45	-2.6	18.11	0.065	3.00	Pass
			RB12#6	20.88	-0.45	-2.6	18.28	0.067	3.00	Pass
			RB12#13	20.84	-0.45	-2.6	18.24	0.067	3.00	Pass
			RB25#0	20.81	-0.45	-2.6	18.21	0.066	3.00	Pass
10 MHz	LCH	QPSK	RB1#0	22.91	-0.45	-2.6	20.31	0.107	3.00	Pass
			RB1#25	23.15	-0.45	-2.6	20.55	0.114	3.00	Pass
			RB1#49	22.65	-0.45	-2.6	20.05	0.101	3.00	Pass
			RB25#0	21.89	-0.45	-2.6	19.29	0.085	3.00	Pass
			RB25#13	22.01	-0.45	-2.6	19.41	0.087	3.00	Pass
			RB25#25	22.07	-0.45	-2.6	19.47	0.089	3.00	Pass
			RB50#0	22.04	-0.45	-2.6	19.44	0.088	3.00	Pass
		16-QAM	RB1#0	21.88	-0.45	-2.6	19.28	0.085	3.00	Pass
			RB1#25	22.6	-0.45	-2.6	20.00	0.100	3.00	Pass
			RB1#49	21.95	-0.45	-2.6	19.35	0.086	3.00	Pass
			RB25#0	20.99	-0.45	-2.6	18.39	0.069	3.00	Pass
			RB25#13	21.11	-0.45	-2.6	18.51	0.071	3.00	Pass
			RB25#25	21.17	-0.45	-2.6	18.57	0.072	3.00	Pass
			RB50#0	20.94	-0.45	-2.6	18.34	0.068	3.00	Pass
	MCH	QPSK	RB1#0	22.75	-0.45	-2.6	20.15	0.104	3.00	Pass
			RB1#25	23.23	-0.45	-2.6	20.63	0.116	3.00	Pass
			RB1#49	22.77	-0.45	-2.6	20.17	0.104	3.00	Pass
			RB25#0	22.06	-0.45	-2.6	19.46	0.088	3.00	Pass
			RB25#13	22.04	-0.45	-2.6	19.44	0.088	3.00	Pass
			RB25#25	21.88	-0.45	-2.6	19.28	0.085	3.00	Pass
			RB50#0	21.99	-0.45	-2.6	19.39	0.087	3.00	Pass
		16-QAM	RB1#0	21.77	-0.45	-2.6	19.17	0.083	3.00	Pass
			RB1#25	21.99	-0.45	-2.6	19.39	0.087	3.00	Pass
			RB1#49	21.65	-0.45	-2.6	19.05	0.080	3.00	Pass
			RB25#0	21.2	-0.45	-2.6	18.60	0.072	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 BAND12										
	HCH		RB25#13	21.31	-0.45	-2.6	18.71	0.074	3.00	Pass
			RB25#25	21.09	-0.45	-2.6	18.49	0.071	3.00	Pass
			RB50#0	21.01	-0.45	-2.6	18.41	0.069	3.00	Pass
		QPSK	RB1#0	23.08	-0.45	-2.6	20.48	0.112	3.00	Pass
			RB1#25	23.19	-0.45	-2.6	20.59	0.115	3.00	Pass
			RB1#49	22.7	-0.45	-2.6	20.10	0.102	3.00	Pass
			RB25#0	22.12	-0.45	-2.6	19.52	0.090	3.00	Pass
			RB25#13	22.05	-0.45	-2.6	19.45	0.088	3.00	Pass
			RB25#25	21.85	-0.45	-2.6	19.25	0.084	3.00	Pass
			RB50#0	22.03	-0.45	-2.6	19.43	0.088	3.00	Pass
		16-QAM	RB1#0	21.96	-0.45	-2.6	19.36	0.086	3.00	Pass
			RB1#25	21.99	-0.45	-2.6	19.39	0.087	3.00	Pass
			RB1#49	21.72	-0.45	-2.6	19.12	0.082	3.00	Pass
			RB25#0	21.27	-0.45	-2.6	18.67	0.074	3.00	Pass
			RB25#13	20.89	-0.45	-2.6	18.29	0.067	3.00	Pass
			RB25#25	20.92	-0.45	-2.6	18.32	0.068	3.00	Pass
			RB50#0	21.02	-0.45	-2.6	18.42	0.070	3.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND13										
5 MHz	LCH	QPSK	RB1#0	22.94	-0.32	-2.47	20.47	0.111	3.00	Pass
			RB1#13	23.05	-0.32	-2.47	20.58	0.114	3.00	Pass
			RB1#24	23.17	-0.32	-2.47	20.70	0.117	3.00	Pass
			RB12#0	22.17	-0.32	-2.47	19.70	0.093	3.00	Pass
			RB12#6	22.21	-0.32	-2.47	19.74	0.094	3.00	Pass
			RB12#13	22.32	-0.32	-2.47	19.85	0.097	3.00	Pass
			RB25#0	22.3	-0.32	-2.47	19.83	0.096	3.00	Pass
		16-QAM	RB1#0	21.83	-0.32	-2.47	19.36	0.086	3.00	Pass
			RB1#13	21.84	-0.32	-2.47	19.37	0.086	3.00	Pass
			RB1#24	21.95	-0.32	-2.47	19.48	0.089	3.00	Pass
			RB12#0	21.03	-0.32	-2.47	18.56	0.072	3.00	Pass
			RB12#6	21.12	-0.32	-2.47	18.65	0.073	3.00	Pass
			RB12#13	21.14	-0.32	-2.47	18.67	0.074	3.00	Pass
			RB25#0	21.38	-0.32	-2.47	18.91	0.078	3.00	Pass
	MCH	QPSK	RB1#0	23.21	-0.32	-2.47	20.74	0.119	3.00	Pass
			RB1#13	23.18	-0.32	-2.47	20.71	0.118	3.00	Pass
			RB1#24	23.3	-0.32	-2.47	20.83	0.121	3.00	Pass
			RB12#0	22.22	-0.32	-2.47	19.75	0.094	3.00	Pass
			RB12#6	22.18	-0.32	-2.47	19.71	0.094	3.00	Pass
			RB12#13	22.23	-0.32	-2.47	19.76	0.095	3.00	Pass
			RB25#0	22.22	-0.32	-2.47	19.75	0.094	3.00	Pass
		16-QAM	RB1#0	22.18	-0.32	-2.47	19.71	0.094	3.00	Pass
			RB1#13	22.29	-0.32	-2.47	19.82	0.096	3.00	Pass
			RB1#24	22.41	-0.32	-2.47	19.94	0.099	3.00	Pass
			RB12#0	21.29	-0.32	-2.47	18.82	0.076	3.00	Pass
			RB12#6	21.34	-0.32	-2.47	18.87	0.077	3.00	Pass
			RB12#13	21.38	-0.32	-2.47	18.91	0.078	3.00	Pass
			RB25#0	21.4	-0.32	-2.47	18.93	0.078	3.00	Pass
	HCH	QPSK	RB1#0	23	-0.32	-2.47	20.53	0.113	3.00	Pass
			RB1#13	23.31	-0.32	-2.47	20.84	0.121	3.00	Pass
			RB1#24	23.39	-0.32	-2.47	20.92	0.124	3.00	Pass
			RB12#0	22.21	-0.32	-2.47	19.74	0.094	3.00	Pass
			RB12#6	22.25	-0.32	-2.47	19.78	0.095	3.00	Pass
			RB12#13	22.36	-0.32	-2.47	19.89	0.097	3.00	Pass
			RB25#0	22.29	-0.32	-2.47	19.82	0.096	3.00	Pass
		16-QAM	RB1#0	22.06	-0.32	-2.47	19.59	0.091	3.00	Pass
			RB1#13	21.8	-0.32	-2.47	19.33	0.086	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										
10 MHz	MCH		RB1#24	22.08	-0.32	-2.47	19.61	0.091	3.00	Pass
			RB12#0	21.18	-0.32	-2.47	18.71	0.074	3.00	Pass
			RB12#6	21.23	-0.32	-2.47	18.76	0.075	3.00	Pass
			RB12#13	21.33	-0.32	-2.47	18.86	0.077	3.00	Pass
			RB25#0	21.15	-0.32	-2.47	18.68	0.074	3.00	Pass
		QPSK	RB1#0	23.04	-0.32	-2.47	20.57	0.114	3.00	Pass
			RB1#25	23.21	-0.32	-2.47	20.74	0.119	3.00	Pass
			RB1#49	23.22	-0.32	-2.47	20.75	0.119	3.00	Pass
			RB25#0	22.19	-0.32	-2.47	19.72	0.094	3.00	Pass
			RB25#13	22.2	-0.32	-2.47	19.73	0.094	3.00	Pass
			RB25#25	22.28	-0.32	-2.47	19.81	0.096	3.00	Pass
			RB50#0	22.23	-0.32	-2.47	19.76	0.095	3.00	Pass
		16-QAM	RB1#0	22.03	-0.32	-2.47	19.56	0.090	3.00	Pass
			RB1#25	22.5	-0.32	-2.47	20.03	0.101	3.00	Pass
			RB1#49	22.6	-0.32	-2.47	20.13	0.103	3.00	Pass
			RB25#0	21.3	-0.32	-2.47	18.83	0.076	3.00	Pass
			RB25#13	21.31	-0.32	-2.47	18.84	0.077	3.00	Pass
			RB25#25	21.39	-0.32	-2.47	18.92	0.078	3.00	Pass
			RB50#0	21.16	-0.32	-2.47	18.69	0.074	3.00	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
LTE BAND25									
1.4 MHz	LCH	QPSK	RB1#0	22.55	2.67	25.22	0.333	2.00	Pass
			RB1#3	22.69	2.67	25.36	0.344	2.00	Pass
			RB1#5	22.67	2.67	25.34	0.342	2.00	Pass
			RB3#0	22.57	2.67	25.24	0.334	2.00	Pass
			RB3#2	22.66	2.67	25.33	0.341	2.00	Pass
			RB3#3	22.59	2.67	25.26	0.336	2.00	Pass
			RB6#0	21.51	2.67	24.18	0.262	2.00	Pass
		16-QAM	RB1#0	21.75	2.67	24.42	0.277	2.00	Pass
			RB1#3	22.01	2.67	24.68	0.294	2.00	Pass
			RB1#5	21.99	2.67	24.66	0.292	2.00	Pass
			RB3#0	21.8	2.67	24.47	0.280	2.00	Pass
			RB3#2	21.86	2.67	24.53	0.284	2.00	Pass
			RB3#3	21.89	2.67	24.56	0.286	2.00	Pass
			RB6#0	20.92	2.67	23.59	0.229	2.00	Pass
	MCH	QPSK	RB1#0	22.34	2.67	25.01	0.317	2.00	Pass
			RB1#3	22.46	2.67	25.13	0.326	2.00	Pass
			RB1#5	22.39	2.67	25.06	0.321	2.00	Pass
			RB3#0	22.43	2.67	25.10	0.324	2.00	Pass
			RB3#2	22.51	2.67	25.18	0.330	2.00	Pass
			RB3#3	22.55	2.67	25.22	0.333	2.00	Pass
			RB6#0	21.64	2.67	24.31	0.270	2.00	Pass
		16-QAM	RB1#0	21.49	2.67	24.16	0.261	2.00	Pass
			RB1#3	21.39	2.67	24.06	0.255	2.00	Pass
			RB1#5	21.43	2.67	24.10	0.257	2.00	Pass
			RB3#0	21.19	2.67	23.86	0.243	2.00	Pass
			RB3#2	21.56	2.67	24.23	0.265	2.00	Pass
			RB3#3	21.53	2.67	24.20	0.263	2.00	Pass
			RB6#0	20.55	2.67	23.22	0.210	2.00	Pass
	HCH	QPSK	RB1#0	22.61	2.67	25.28	0.337	2.00	Pass
			RB1#3	22.69	2.67	25.36	0.344	2.00	Pass
			RB1#5	22.63	2.67	25.30	0.339	2.00	Pass
			RB3#0	22.64	2.67	25.31	0.340	2.00	Pass
			RB3#2	22.69	2.67	25.36	0.344	2.00	Pass
			RB3#3	22.63	2.67	25.30	0.339	2.00	Pass
			RB6#0	21.61	2.67	24.28	0.268	2.00	Pass
		16-QAM	RB1#0	21.76	2.67	24.43	0.277	2.00	Pass
			RB1#3	21.62	2.67	24.29	0.269	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
LTE BAND25									
3 MHz			RB1#5	21.64	2.67	24.31	0.270	2.00	Pass
			RB3#0	21.67	2.67	24.34	0.272	2.00	Pass
			RB3#2	21.79	2.67	24.46	0.279	2.00	Pass
			RB3#3	21.77	2.67	24.44	0.278	2.00	Pass
			RB6#0	20.6	2.67	23.27	0.212	2.00	Pass
	LCH	QPSK	RB1#0	22.46	2.67	25.13	0.326	2.00	Pass
			RB1#7	22.4	2.67	25.07	0.321	2.00	Pass
			RB1#14	22.38	2.67	25.05	0.320	2.00	Pass
			RB8#0	21.51	2.67	24.18	0.262	2.00	Pass
			RB8#4	21.67	2.67	24.34	0.272	2.00	Pass
			RB8#7	21.63	2.67	24.30	0.269	2.00	Pass
			RB15#0	21.59	2.67	24.26	0.267	2.00	Pass
		16-QAM	RB1#0	21.51	2.67	24.18	0.262	2.00	Pass
			RB1#7	21.38	2.67	24.05	0.254	2.00	Pass
			RB1#14	21.28	2.67	23.95	0.248	2.00	Pass
			RB8#0	20.38	2.67	23.05	0.202	2.00	Pass
			RB8#4	20.42	2.67	23.09	0.204	2.00	Pass
			RB8#7	20.44	2.67	23.11	0.205	2.00	Pass
			RB15#0	20.49	2.67	23.16	0.207	2.00	Pass
	MCH	QPSK	RB1#0	22.57	2.67	25.24	0.334	2.00	Pass
			RB1#7	22.7	2.67	25.37	0.344	2.00	Pass
			RB1#14	22.69	2.67	25.36	0.344	2.00	Pass
			RB8#0	21.65	2.67	24.32	0.270	2.00	Pass
			RB8#4	21.67	2.67	24.34	0.272	2.00	Pass
			RB8#7	21.62	2.67	24.29	0.269	2.00	Pass
			RB15#0	21.55	2.67	24.22	0.264	2.00	Pass
		16-QAM	RB1#0	21.43	2.67	24.10	0.257	2.00	Pass
			RB1#7	21.48	2.67	24.15	0.260	2.00	Pass
			RB1#14	21.45	2.67	24.12	0.258	2.00	Pass
			RB8#0	20.41	2.67	23.08	0.203	2.00	Pass
			RB8#4	20.45	2.67	23.12	0.205	2.00	Pass
			RB8#7	20.5	2.67	23.17	0.207	2.00	Pass
			RB15#0	20.57	2.67	23.24	0.211	2.00	Pass
	HCH	QPSK	RB1#0	23.01	2.67	25.68	0.370	2.00	Pass
			RB1#7	22.9	2.67	25.57	0.361	2.00	Pass
			RB1#14	22.63	2.67	25.30	0.339	2.00	Pass
			RB8#0	21.77	2.67	24.44	0.278	2.00	Pass
			RB8#4	21.77	2.67	24.44	0.278	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
LTE BAND25									
			RB8#7	21.68	2.67	24.35	0.272	2.00	Pass
			RB15#0	21.78	2.67	24.45	0.279	2.00	Pass
		16-QAM	RB1#0	21.61	2.67	24.28	0.268	2.00	Pass
			RB1#7	21.68	2.67	24.35	0.272	2.00	Pass
			RB1#14	21.76	2.67	24.43	0.277	2.00	Pass
			RB8#0	20.43	2.67	23.10	0.204	2.00	Pass
			RB8#4	20.52	2.67	23.19	0.208	2.00	Pass
			RB8#7	20.61	2.67	23.28	0.213	2.00	Pass
			RB15#0	20.54	2.67	23.21	0.209	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	22.52	2.67	25.19	0.330	2.00	Pass
			RB1#13	22.58	2.67	25.25	0.335	2.00	Pass
			RB1#24	22.44	2.67	25.11	0.324	2.00	Pass
			RB12#0	21.54	2.67	24.21	0.264	2.00	Pass
			RB12#6	21.59	2.67	24.26	0.267	2.00	Pass
			RB12#13	21.48	2.67	24.15	0.260	2.00	Pass
			RB25#0	21.52	2.67	24.19	0.262	2.00	Pass
		16-QAM	RB1#0	21.14	2.67	23.81	0.240	2.00	Pass
			RB1#13	21.17	2.67	23.84	0.242	2.00	Pass
			RB1#24	21.08	2.67	23.75	0.237	2.00	Pass
			RB12#0	20.4	2.67	23.07	0.203	2.00	Pass
			RB12#6	20.65	2.67	23.32	0.215	2.00	Pass
			RB12#13	20.44	2.67	23.11	0.205	2.00	Pass
			RB25#0	20.62	2.67	23.29	0.213	2.00	Pass
	MCH	QPSK	RB1#0	22.2	2.67	24.87	0.307	2.00	Pass
			RB1#13	22.39	2.67	25.06	0.321	2.00	Pass
			RB1#24	22.35	2.67	25.02	0.318	2.00	Pass
			RB12#0	21.55	2.67	24.22	0.264	2.00	Pass
			RB12#6	21.66	2.67	24.33	0.271	2.00	Pass
			RB12#13	21.65	2.67	24.32	0.270	2.00	Pass
			RB25#0	21.51	2.67	24.18	0.262	2.00	Pass
		16-QAM	RB1#0	21.5	2.67	24.17	0.261	2.00	Pass
			RB1#13	21.72	2.67	24.39	0.275	2.00	Pass
			RB1#24	21.55	2.67	24.22	0.264	2.00	Pass
			RB12#0	20.35	2.67	23.02	0.200	2.00	Pass
			RB12#6	20.39	2.67	23.06	0.202	2.00	Pass
			RB12#13	20.52	2.67	23.19	0.208	2.00	Pass
			RB25#0	20.47	2.67	23.14	0.206	2.00	Pass
	HCH	QPSK	RB1#0	22.48	2.67	25.15	0.327	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
LTE BAND25									
			RB1#13	22.77	2.67	25.44	0.350	2.00	Pass
			RB1#24	22.7	2.67	25.37	0.344	2.00	Pass
			RB12#0	21.84	2.67	24.51	0.282	2.00	Pass
			RB12#6	21.68	2.67	24.35	0.272	2.00	Pass
			RB12#13	21.71	2.67	24.38	0.274	2.00	Pass
			RB25#0	21.77	2.67	24.44	0.278	2.00	Pass
		16-QAM	RB1#0	21.52	2.67	24.19	0.262	2.00	Pass
			RB1#13	21.46	2.67	24.13	0.259	2.00	Pass
			RB1#24	21.57	2.67	24.24	0.265	2.00	Pass
			RB12#0	20.71	2.67	23.38	0.218	2.00	Pass
			RB12#6	20.62	2.67	23.29	0.213	2.00	Pass
			RB12#13	20.58	2.67	23.25	0.211	2.00	Pass
			RB25#0	20.84	2.67	23.51	0.224	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	22.55	2.67	25.22	0.333	2.00	Pass
			RB1#25	22.85	2.67	25.52	0.356	2.00	Pass
			RB1#49	22.49	2.67	25.16	0.328	2.00	Pass
			RB25#0	21.66	2.67	24.33	0.271	2.00	Pass
			RB25#13	21.54	2.67	24.21	0.264	2.00	Pass
			RB25#25	21.48	2.67	24.15	0.260	2.00	Pass
			RB50#0	21.56	2.67	24.23	0.265	2.00	Pass
		16-QAM	RB1#0	21.5	2.67	24.17	0.261	2.00	Pass
			RB1#25	22.02	2.67	24.69	0.294	2.00	Pass
			RB1#49	21.49	2.67	24.16	0.261	2.00	Pass
			RB25#0	20.73	2.67	23.40	0.219	2.00	Pass
			RB25#13	20.57	2.67	23.24	0.211	2.00	Pass
			RB25#25	20.44	2.67	23.11	0.205	2.00	Pass
			RB50#0	20.42	2.67	23.09	0.204	2.00	Pass
	MCH	QPSK	RB1#0	22.5	2.67	25.17	0.329	2.00	Pass
			RB1#25	22.84	2.67	25.51	0.356	2.00	Pass
			RB1#49	22.44	2.67	25.11	0.324	2.00	Pass
			RB25#0	21.46	2.67	24.13	0.259	2.00	Pass
			RB25#13	21.65	2.67	24.32	0.270	2.00	Pass
			RB25#25	21.63	2.67	24.30	0.269	2.00	Pass
			RB50#0	21.51	2.67	24.18	0.262	2.00	Pass
		16-QAM	RB1#0	21.24	2.67	23.91	0.246	2.00	Pass
			RB1#25	21.49	2.67	24.16	0.261	2.00	Pass
			RB1#49	20.87	2.67	23.54	0.226	2.00	Pass
			RB25#0	20.48	2.67	23.15	0.207	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
LTE BAND25									
15 MHz	HCH		RB25#13	20.67	2.67	23.34	0.216	2.00	Pass
			RB25#25	20.74	2.67	23.41	0.219	2.00	Pass
			RB50#0	20.61	2.67	23.28	0.213	2.00	Pass
		QPSK	RB1#0	22.66	2.67	25.33	0.341	2.00	Pass
			RB1#25	23.03	2.67	25.70	0.372	2.00	Pass
			RB1#49	21.99	2.67	24.66	0.292	2.00	Pass
			RB25#0	21.79	2.67	24.46	0.279	2.00	Pass
			RB25#13	21.74	2.67	24.41	0.276	2.00	Pass
			RB25#25	21.69	2.67	24.36	0.273	2.00	Pass
			RB50#0	21.7	2.67	24.37	0.274	2.00	Pass
		16-QAM	RB1#0	21.46	2.67	24.13	0.259	2.00	Pass
			RB1#25	21.71	2.67	24.38	0.274	2.00	Pass
			RB1#49	21.15	2.67	23.82	0.241	2.00	Pass
			RB25#0	20.86	2.67	23.53	0.225	2.00	Pass
			RB25#13	20.89	2.67	23.56	0.227	2.00	Pass
			RB25#25	20.84	2.67	23.51	0.224	2.00	Pass
			RB50#0	20.7	2.67	23.37	0.217	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	22.62	2.67	25.29	0.338	2.00	Pass
			RB1#38	22.71	2.67	25.38	0.345	2.00	Pass
			RB1#74	22.39	2.67	25.06	0.321	2.00	Pass
			RB36#0	21.58	2.67	24.25	0.266	2.00	Pass
			RB36#19	21.54	2.67	24.21	0.264	2.00	Pass
			RB36#39	21.4	2.67	24.07	0.255	2.00	Pass
			RB75#0	21.5	2.67	24.17	0.261	2.00	Pass
		16-QAM	RB1#0	21.54	2.67	24.21	0.264	2.00	Pass
			RB1#38	21.61	2.67	24.28	0.268	2.00	Pass
			RB1#74	21.38	2.67	24.05	0.254	2.00	Pass
			RB36#0	20.55	2.67	23.22	0.210	2.00	Pass
			RB36#19	20.51	2.67	23.18	0.208	2.00	Pass
			RB36#39	20.38	2.67	23.05	0.202	2.00	Pass
			RB75#0	20.5	2.67	23.17	0.207	2.00	Pass
	MCH	QPSK	RB1#0	22.24	2.67	24.91	0.310	2.00	Pass
			RB1#38	22.53	2.67	25.20	0.331	2.00	Pass
			RB1#74	22.38	2.67	25.05	0.320	2.00	Pass
			RB36#0	21.26	2.67	23.93	0.247	2.00	Pass
			RB36#19	21.54	2.67	24.21	0.264	2.00	Pass
			RB36#39	21.52	2.67	24.19	0.262	2.00	Pass
			RB75#0	21.42	2.67	24.09	0.256	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
LTE BAND25									
20 MHz	HCH	16-QAM	RB1#0	21.26	2.67	23.93	0.247	2.00	Pass
			RB1#38	21.52	2.67	24.19	0.262	2.00	Pass
			RB1#74	20.81	2.67	23.48	0.223	2.00	Pass
			RB36#0	20.31	2.67	22.98	0.199	2.00	Pass
			RB36#19	20.47	2.67	23.14	0.206	2.00	Pass
			RB36#39	20.46	2.67	23.13	0.206	2.00	Pass
			RB75#0	20.46	2.67	23.13	0.206	2.00	Pass
		QPSK	RB1#0	22.67	2.67	25.34	0.342	2.00	Pass
			RB1#38	22.54	2.67	25.21	0.332	2.00	Pass
			RB1#74	21.9	2.67	24.57	0.286	2.00	Pass
			RB36#0	21.7	2.67	24.37	0.274	2.00	Pass
			RB36#19	21.63	2.67	24.30	0.269	2.00	Pass
			RB36#39	21.65	2.67	24.32	0.270	2.00	Pass
			RB75#0	21.71	2.67	24.38	0.274	2.00	Pass
		16-QAM	RB1#0	22.16	2.67	24.83	0.304	2.00	Pass
			RB1#38	22.48	2.67	25.15	0.327	2.00	Pass
			RB1#74	21.46	2.67	24.13	0.259	2.00	Pass
			RB36#0	20.67	2.67	23.34	0.216	2.00	Pass
			RB36#19	20.71	2.67	23.38	0.218	2.00	Pass
			RB36#39	20.58	2.67	23.25	0.211	2.00	Pass
			RB75#0	20.64	2.67	23.31	0.214	2.00	Pass
	LCH	QPSK	RB1#0	22.26	2.67	24.93	0.311	2.00	Pass
			RB1#50	22.87	2.67	25.54	0.358	2.00	Pass
			RB1#99	22.04	2.67	24.71	0.296	2.00	Pass
			RB50#0	21.59	2.67	24.26	0.267	2.00	Pass
			RB50#25	21.54	2.67	24.21	0.264	2.00	Pass
			RB50#50	21.44	2.67	24.11	0.258	2.00	Pass
			RB100#0	21.51	2.67	24.18	0.262	2.00	Pass
		16-QAM	RB1#0	21.77	2.67	24.44	0.278	2.00	Pass
			RB1#50	21.96	2.67	24.63	0.290	2.00	Pass
			RB1#99	20.89	2.67	23.56	0.227	2.00	Pass
			RB50#0	20.66	2.67	23.33	0.215	2.00	Pass
			RB50#25	20.63	2.67	23.30	0.214	2.00	Pass
			RB50#50	20.49	2.67	23.16	0.207	2.00	Pass
			RB100#0	20.63	2.67	23.30	0.214	2.00	Pass
	MCH	QPSK	RB1#0	22.55	2.67	25.22	0.333	2.00	Pass
			RB1#50	22.81	2.67	25.48	0.353	2.00	Pass
			RB1#99	22.46	2.67	25.13	0.326	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
LTE BAND25									
			RB50#0	21.3	2.67	23.97	0.249	2.00	Pass
			RB50#25	21.55	2.67	24.22	0.264	2.00	Pass
			RB50#50	21.47	2.67	24.14	0.259	2.00	Pass
			RB100#0	21.36	2.67	24.03	0.253	2.00	Pass
		16-QAM	RB1#0	21.63	2.67	24.30	0.269	2.00	Pass
			RB1#50	21.66	2.67	24.33	0.271	2.00	Pass
			RB1#99	21.09	2.67	23.76	0.238	2.00	Pass
			RB50#0	20.32	2.67	22.99	0.199	2.00	Pass
			RB50#25	20.6	2.67	23.27	0.212	2.00	Pass
			RB50#50	20.57	2.67	23.24	0.211	2.00	Pass
			RB100#0	20.26	2.67	22.93	0.196	2.00	Pass
	HCH	QPSK	RB1#0	22.38	2.67	25.05	0.320	2.00	Pass
			RB1#50	22.77	2.67	25.44	0.350	2.00	Pass
			RB1#99	21.72	2.67	24.39	0.275	2.00	Pass
			RB50#0	21.64	2.67	24.31	0.270	2.00	Pass
			RB50#25	21.65	2.67	24.32	0.270	2.00	Pass
			RB50#50	21.51	2.67	24.18	0.262	2.00	Pass
			RB100#0	21.56	2.67	24.23	0.265	2.00	Pass
		16-QAM	RB1#0	21.3	2.67	23.97	0.249	2.00	Pass
			RB1#50	21.44	2.67	24.11	0.258	2.00	Pass
			RB1#99	21.06	2.67	23.73	0.236	2.00	Pass
			RB50#0	20.61	2.67	23.28	0.213	2.00	Pass
			RB50#25	20.56	2.67	23.23	0.210	2.00	Pass
			RB50#50	20.44	2.67	23.11	0.205	2.00	Pass
			RB100#0	20.5	2.67	23.17	0.207	2.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
1.4 MHz	LCH	QPSK	RB1#0	23.06	-0.6	-2.75	20.31	0.107	7.00	Pass
			RB1#3	23.25	-0.6	-2.75	20.50	0.112	7.00	Pass
			RB1#5	23.1	-0.6	-2.75	20.35	0.108	7.00	Pass
			RB3#0	23.01	-0.6	-2.75	20.26	0.106	7.00	Pass
			RB3#2	23.13	-0.6	-2.75	20.38	0.109	7.00	Pass
			RB3#3	23.08	-0.6	-2.75	20.33	0.108	7.00	Pass
			RB6#0	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
		16-QAM	RB1#0	21.97	-0.6	-2.75	19.22	0.084	7.00	Pass
			RB1#3	21.82	-0.6	-2.75	19.07	0.081	7.00	Pass
			RB1#5	21.97	-0.6	-2.75	19.22	0.084	7.00	Pass
			RB3#0	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB3#2	22.12	-0.6	-2.75	19.37	0.086	7.00	Pass
			RB3#3	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB6#0	21.26	-0.6	-2.75	18.51	0.071	7.00	Pass
	MCH	QPSK	RB1#0	23.07	-0.6	-2.75	20.32	0.108	7.00	Pass
			RB1#3	23.35	-0.6	-2.75	20.60	0.115	7.00	Pass
			RB1#5	23.08	-0.6	-2.75	20.33	0.108	7.00	Pass
			RB3#0	23.19	-0.6	-2.75	20.44	0.111	7.00	Pass
			RB3#2	23.22	-0.6	-2.75	20.47	0.111	7.00	Pass
			RB3#3	23.16	-0.6	-2.75	20.41	0.110	7.00	Pass
			RB6#0	22.17	-0.6	-2.75	19.42	0.087	7.00	Pass
		16-QAM	RB1#0	22.3	-0.6	-2.75	19.55	0.090	7.00	Pass
			RB1#3	22.4	-0.6	-2.75	19.65	0.092	7.00	Pass
			RB1#5	22.25	-0.6	-2.75	19.50	0.089	7.00	Pass
			RB3#0	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
			RB3#2	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
			RB3#3	22.07	-0.6	-2.75	19.32	0.086	7.00	Pass
			RB6#0	20.9	-0.6	-2.75	18.15	0.065	7.00	Pass
	HCH	QPSK	RB1#0	22.98	-0.6	-2.75	20.23	0.105	7.00	Pass
			RB1#3	23.09	-0.6	-2.75	20.34	0.108	7.00	Pass
			RB1#5	22.89	-0.6	-2.75	20.14	0.103	7.00	Pass
			RB3#0	23.18	-0.6	-2.75	20.43	0.110	7.00	Pass
			RB3#2	23.13	-0.6	-2.75	20.38	0.109	7.00	Pass
			RB3#3	23.03	-0.6	-2.75	20.28	0.107	7.00	Pass
			RB6#0	22.12	-0.6	-2.75	19.37	0.086	7.00	Pass
		16-QAM	RB1#0	22.04	-0.6	-2.75	19.29	0.085	7.00	Pass
			RB1#3	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
3 MHz			RB1#5	21.95	-0.6	-2.75	19.20	0.083	7.00	Pass
			RB3#0	22.38	-0.6	-2.75	19.63	0.092	7.00	Pass
			RB3#2	22.18	-0.6	-2.75	19.43	0.088	7.00	Pass
			RB3#3	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB6#0	21.05	-0.6	-2.75	18.30	0.068	7.00	Pass
	LCH	QPSK	RB1#0	23.15	-0.6	-2.75	20.40	0.110	7.00	Pass
			RB1#7	23.08	-0.6	-2.75	20.33	0.108	7.00	Pass
			RB1#14	23.16	-0.6	-2.75	20.41	0.110	7.00	Pass
			RB8#0	22.1	-0.6	-2.75	19.35	0.086	7.00	Pass
			RB8#4	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
			RB8#7	22.14	-0.6	-2.75	19.39	0.087	7.00	Pass
			RB15#0	22.05	-0.6	-2.75	19.30	0.085	7.00	Pass
		16-QAM	RB1#0	21.85	-0.6	-2.75	19.10	0.081	7.00	Pass
			RB1#7	21.85	-0.6	-2.75	19.10	0.081	7.00	Pass
			RB1#14	21.95	-0.6	-2.75	19.20	0.083	7.00	Pass
			RB8#0	21.05	-0.6	-2.75	18.30	0.068	7.00	Pass
			RB8#4	21.24	-0.6	-2.75	18.49	0.071	7.00	Pass
			RB8#7	21.48	-0.6	-2.75	18.73	0.075	7.00	Pass
			RB15#0	21.28	-0.6	-2.75	18.53	0.071	7.00	Pass
	MCH	QPSK	RB1#0	23.24	-0.6	-2.75	20.49	0.112	7.00	Pass
			RB1#7	23.13	-0.6	-2.75	20.38	0.109	7.00	Pass
			RB1#14	22.94	-0.6	-2.75	20.19	0.104	7.00	Pass
			RB8#0	22.22	-0.6	-2.75	19.47	0.089	7.00	Pass
			RB8#4	22.17	-0.6	-2.75	19.42	0.087	7.00	Pass
			RB8#7	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
			RB15#0	22.18	-0.6	-2.75	19.43	0.088	7.00	Pass
		16-QAM	RB1#0	22.24	-0.6	-2.75	19.49	0.089	7.00	Pass
			RB1#7	21.92	-0.6	-2.75	19.17	0.083	7.00	Pass
			RB1#14	21.92	-0.6	-2.75	19.17	0.083	7.00	Pass
			RB8#0	21.1	-0.6	-2.75	18.35	0.068	7.00	Pass
			RB8#4	21.03	-0.6	-2.75	18.28	0.067	7.00	Pass
			RB8#7	21.03	-0.6	-2.75	18.28	0.067	7.00	Pass
			RB15#0	21.14	-0.6	-2.75	18.39	0.069	7.00	Pass
	HCH	QPSK	RB1#0	23.1	-0.6	-2.75	20.35	0.108	7.00	Pass
			RB1#7	22.97	-0.6	-2.75	20.22	0.105	7.00	Pass
			RB1#14	22.82	-0.6	-2.75	20.07	0.102	7.00	Pass
			RB8#0	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
			RB8#4	21.99	-0.6	-2.75	19.24	0.084	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
		16-QAM	RB8#7	22.04	-0.6	-2.75	19.29	0.085	7.00	Pass
			RB15#0	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB1#0	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
			RB1#7	21.87	-0.6	-2.75	19.12	0.082	7.00	Pass
			RB1#14	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
			RB8#0	21.21	-0.6	-2.75	18.46	0.070	7.00	Pass
			RB8#4	21.26	-0.6	-2.75	18.51	0.071	7.00	Pass
			RB8#7	20.82	-0.6	-2.75	18.07	0.064	7.00	Pass
			RB15#0	20.97	-0.6	-2.75	18.22	0.066	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	22.99	-0.6	-2.75	20.24	0.106	7.00	Pass
			RB1#13	22.99	-0.6	-2.75	20.24	0.106	7.00	Pass
			RB1#24	23.06	-0.6	-2.75	20.31	0.107	7.00	Pass
			RB12#0	21.94	-0.6	-2.75	19.19	0.083	7.00	Pass
			RB12#6	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB12#13	22.1	-0.6	-2.75	19.35	0.086	7.00	Pass
			RB25#0	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
		16-QAM	RB1#0	21.7	-0.6	-2.75	18.95	0.079	7.00	Pass
			RB1#13	21.67	-0.6	-2.75	18.92	0.078	7.00	Pass
			RB1#24	21.78	-0.6	-2.75	19.03	0.080	7.00	Pass
			RB12#0	20.86	-0.6	-2.75	18.11	0.065	7.00	Pass
			RB12#6	21.01	-0.6	-2.75	18.26	0.067	7.00	Pass
			RB12#13	20.92	-0.6	-2.75	18.17	0.066	7.00	Pass
			RB25#0	21.21	-0.6	-2.75	18.46	0.070	7.00	Pass
	MCH	QPSK	RB1#0	23.18	-0.6	-2.75	20.43	0.110	7.00	Pass
			RB1#13	23.16	-0.6	-2.75	20.41	0.110	7.00	Pass
			RB1#24	22.89	-0.6	-2.75	20.14	0.103	7.00	Pass
			RB12#0	22.29	-0.6	-2.75	19.54	0.090	7.00	Pass
			RB12#6	22.22	-0.6	-2.75	19.47	0.089	7.00	Pass
			RB12#13	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
			RB25#0	22.23	-0.6	-2.75	19.48	0.089	7.00	Pass
		16-QAM	RB1#0	22.16	-0.6	-2.75	19.41	0.087	7.00	Pass
			RB1#13	22.21	-0.6	-2.75	19.46	0.088	7.00	Pass
			RB1#24	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
			RB12#0	21.23	-0.6	-2.75	18.48	0.070	7.00	Pass
			RB12#6	21.18	-0.6	-2.75	18.43	0.070	7.00	Pass
			RB12#13	21.1	-0.6	-2.75	18.35	0.068	7.00	Pass
			RB25#0	21.3	-0.6	-2.75	18.55	0.072	7.00	Pass
	HCH	QPSK	RB1#0	23.13	-0.6	-2.75	20.38	0.109	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
			RB1#13	23.25	-0.6	-2.75	20.50	0.112	7.00	Pass
			RB1#24	22.91	-0.6	-2.75	20.16	0.104	7.00	Pass
			RB12#0	22.23	-0.6	-2.75	19.48	0.089	7.00	Pass
			RB12#6	22.23	-0.6	-2.75	19.48	0.089	7.00	Pass
			RB12#13	21.93	-0.6	-2.75	19.18	0.083	7.00	Pass
			RB25#0	22.05	-0.6	-2.75	19.30	0.085	7.00	Pass
		16-QAM	RB1#0	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
			RB1#13	21.93	-0.6	-2.75	19.18	0.083	7.00	Pass
			RB1#24	21.29	-0.6	-2.75	18.54	0.071	7.00	Pass
			RB12#0	21.02	-0.6	-2.75	18.27	0.067	7.00	Pass
			RB12#6	21.01	-0.6	-2.75	18.26	0.067	7.00	Pass
			RB12#13	20.86	-0.6	-2.75	18.11	0.065	7.00	Pass
			RB25#0	20.95	-0.6	-2.75	18.20	0.066	7.00	Pass
10 MHz	MCH	QPSK	RB1#0	23.18	-0.6	-2.75	20.43	0.110	7.00	Pass
			RB1#25	23.36	-0.6	-2.75	20.61	0.115	7.00	Pass
			RB1#49	23.44	-0.6	-2.75	20.69	0.117	7.00	Pass
			RB25#0	22.22	-0.6	-2.75	19.47	0.089	7.00	Pass
			RB25#13	22.32	-0.6	-2.75	19.57	0.091	7.00	Pass
			RB25#25	22.25	-0.6	-2.75	19.50	0.089	7.00	Pass
			RB50#0	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
		16-QAM	RB1#0	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
			RB1#25	22.03	-0.6	-2.75	19.28	0.085	7.00	Pass
			RB1#49	22.07	-0.6	-2.75	19.32	0.086	7.00	Pass
			RB25#0	21.24	-0.6	-2.75	18.49	0.071	7.00	Pass
			RB25#13	21.36	-0.6	-2.75	18.61	0.073	7.00	Pass
			RB25#25	21.27	-0.6	-2.75	18.52	0.071	7.00	Pass
			RB50#0	21.12	-0.6	-2.75	18.37	0.069	7.00	Pass
	MCH	QPSK	RB1#0	23.19	-0.6	-2.75	20.44	0.111	7.00	Pass
			RB1#25	23.61	-0.6	-2.75	20.86	0.122	7.00	Pass
			RB1#49	22.92	-0.6	-2.75	20.17	0.104	7.00	Pass
			RB25#0	22.27	-0.6	-2.75	19.52	0.090	7.00	Pass
			RB25#13	22.25	-0.6	-2.75	19.50	0.089	7.00	Pass
			RB25#25	22.11	-0.6	-2.75	19.36	0.086	7.00	Pass
			RB50#0	22.2	-0.6	-2.75	19.45	0.088	7.00	Pass
		16-QAM	RB1#0	22.06	-0.6	-2.75	19.31	0.085	7.00	Pass
			RB1#25	22.04	-0.6	-2.75	19.29	0.085	7.00	Pass
			RB1#49	21.44	-0.6	-2.75	18.69	0.074	7.00	Pass
			RB25#0	21.22	-0.6	-2.75	18.47	0.070	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
	HCH		RB25#13	21.19	-0.6	-2.75	18.44	0.070	7.00	Pass
			RB25#25	21.04	-0.6	-2.75	18.29	0.067	7.00	Pass
			RB50#0	21.12	-0.6	-2.75	18.37	0.069	7.00	Pass
		QPSK	RB1#0	23.05	-0.6	-2.75	20.30	0.107	7.00	Pass
			RB1#25	23.47	-0.6	-2.75	20.72	0.118	7.00	Pass
			RB1#49	22.94	-0.6	-2.75	20.19	0.104	7.00	Pass
			RB25#0	22.05	-0.6	-2.75	19.30	0.085	7.00	Pass
			RB25#13	22.23	-0.6	-2.75	19.48	0.089	7.00	Pass
			RB25#25	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
			RB50#0	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
		16-QAM	RB1#0	22.04	-0.6	-2.75	19.29	0.085	7.00	Pass
			RB1#25	22.26	-0.6	-2.75	19.51	0.089	7.00	Pass
			RB1#49	22	-0.6	-2.75	19.25	0.084	7.00	Pass
			RB25#0	21.03	-0.6	-2.75	18.28	0.067	7.00	Pass
			RB25#13	21.21	-0.6	-2.75	18.46	0.070	7.00	Pass
			RB25#25	21.12	-0.6	-2.75	18.37	0.069	7.00	Pass
			RB50#0	20.98	-0.6	-2.75	18.23	0.067	7.00	Pass
15 MHz	LCH	QPSK	RB1#0	23.03	-0.6	-2.75	20.28	0.107	7.00	Pass
			RB1#38	23.3	-0.6	-2.75	20.55	0.114	7.00	Pass
			RB1#74	23.12	-0.6	-2.75	20.37	0.109	7.00	Pass
			RB36#0	22.01	-0.6	-2.75	19.26	0.084	7.00	Pass
			RB36#19	22.18	-0.6	-2.75	19.43	0.088	7.00	Pass
			RB36#39	22.18	-0.6	-2.75	19.43	0.088	7.00	Pass
			RB75#0	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
		16-QAM	RB1#0	21.88	-0.6	-2.75	19.13	0.082	7.00	Pass
			RB1#38	22.15	-0.6	-2.75	19.40	0.087	7.00	Pass
			RB1#74	22.03	-0.6	-2.75	19.28	0.085	7.00	Pass
			RB36#0	21	-0.6	-2.75	18.25	0.067	7.00	Pass
			RB36#19	21.11	-0.6	-2.75	18.36	0.069	7.00	Pass
			RB36#39	21.09	-0.6	-2.75	18.34	0.068	7.00	Pass
			RB75#0	21.05	-0.6	-2.75	18.30	0.068	7.00	Pass
	MCH	QPSK	RB1#0	23.01	-0.6	-2.75	20.26	0.106	7.00	Pass
			RB1#38	23.22	-0.6	-2.75	20.47	0.111	7.00	Pass
			RB1#74	23.04	-0.6	-2.75	20.29	0.107	7.00	Pass
			RB36#0	22.24	-0.6	-2.75	19.49	0.089	7.00	Pass
			RB36#19	22.21	-0.6	-2.75	19.46	0.088	7.00	Pass
			RB36#39	22.1	-0.6	-2.75	19.35	0.086	7.00	Pass
			RB75#0	22.17	-0.6	-2.75	19.42	0.087	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part22)										
		16-QAM	RB1#0	22.02	-0.6	-2.75	19.27	0.085	7.00	Pass
			RB1#38	22.09	-0.6	-2.75	19.34	0.086	7.00	Pass
			RB1#74	21.65	-0.6	-2.75	18.90	0.078	7.00	Pass
			RB36#0	21.32	-0.6	-2.75	18.57	0.072	7.00	Pass
			RB36#19	21.34	-0.6	-2.75	18.59	0.072	7.00	Pass
			RB36#39	21.03	-0.6	-2.75	18.28	0.067	7.00	Pass
			RB75#0	21.11	-0.6	-2.75	18.36	0.069	7.00	Pass
	HCH	QPSK	RB1#0	23.15	-0.6	-2.75	20.40	0.110	7.00	Pass
			RB1#38	22.88	-0.6	-2.75	20.13	0.103	7.00	Pass
			RB1#74	23.06	-0.6	-2.75	20.31	0.107	7.00	Pass
			RB36#0	22.22	-0.6	-2.75	19.47	0.089	7.00	Pass
			RB36#19	22.02	-0.6	-2.75	19.27	0.085	7.00	Pass
			RB36#39	22.13	-0.6	-2.75	19.38	0.087	7.00	Pass
			RB75#0	22.14	-0.6	-2.75	19.39	0.087	7.00	Pass
		16-QAM	RB1#0	22.67	-0.6	-2.75	19.92	0.098	7.00	Pass
			RB1#38	22.44	-0.6	-2.75	19.69	0.093	7.00	Pass
			RB1#74	22.43	-0.6	-2.75	19.68	0.093	7.00	Pass
			RB36#0	21.1	-0.6	-2.75	18.35	0.068	7.00	Pass
			RB36#19	20.99	-0.6	-2.75	18.24	0.067	7.00	Pass
			RB36#39	21	-0.6	-2.75	18.25	0.067	7.00	Pass
			RB75#0	21.05	-0.6	-2.75	18.30	0.068	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part90)										
1.4 MHz	LCH	QPSK	RB1#0	23.14	-0.6	-2.75	20.39	0.109	100.00	Pass
			RB1#3	23.31	-0.6	-2.75	20.56	0.114	100.00	Pass
			RB1#5	23.22	-0.6	-2.75	20.47	0.111	100.00	Pass
			RB3#0	23.05	-0.6	-2.75	20.30	0.107	100.00	Pass
			RB3#2	23.22	-0.6	-2.75	20.47	0.111	100.00	Pass
			RB3#3	23.12	-0.6	-2.75	20.37	0.109	100.00	Pass
			RB6#0	22.11	-0.6	-2.75	19.36	0.086	100.00	Pass
		16-QAM	RB1#0	22.02	-0.6	-2.75	19.27	0.085	100.00	Pass
			RB1#3	22.3	-0.6	-2.75	19.55	0.090	100.00	Pass
			RB1#5	22.2	-0.6	-2.75	19.45	0.088	100.00	Pass
			RB3#0	22.06	-0.6	-2.75	19.31	0.085	100.00	Pass
			RB3#2	22.16	-0.6	-2.75	19.41	0.087	100.00	Pass
			RB3#3	22.1	-0.6	-2.75	19.35	0.086	100.00	Pass
			RB6#0	21.14	-0.6	-2.75	18.39	0.069	100.00	Pass
	MCH	QPSK	RB1#0	23.1	-0.6	-2.75	20.35	0.108	100.00	Pass
			RB1#3	23.22	-0.6	-2.75	20.47	0.111	100.00	Pass
			RB1#5	22.96	-0.6	-2.75	20.21	0.105	100.00	Pass
			RB3#0	23.18	-0.6	-2.75	20.43	0.110	100.00	Pass
			RB3#2	23.26	-0.6	-2.75	20.51	0.112	100.00	Pass
			RB3#3	23.17	-0.6	-2.75	20.42	0.110	100.00	Pass
			RB6#0	22.25	-0.6	-2.75	19.50	0.089	100.00	Pass
		16-QAM	RB1#0	22.1	-0.6	-2.75	19.35	0.086	100.00	Pass
			RB1#3	22.22	-0.6	-2.75	19.47	0.089	100.00	Pass
			RB1#5	21.68	-0.6	-2.75	18.93	0.078	100.00	Pass
			RB3#0	21.95	-0.6	-2.75	19.20	0.083	100.00	Pass
			RB3#2	22.08	-0.6	-2.75	19.33	0.086	100.00	Pass
			RB3#3	21.9	-0.6	-2.75	19.15	0.082	100.00	Pass
			RB6#0	20.88	-0.6	-2.75	18.13	0.065	100.00	Pass
	HCH	QPSK	RB1#0	23.01	-0.6	-2.75	20.26	0.106	100.00	Pass
			RB1#3	23.2	-0.6	-2.75	20.45	0.111	100.00	Pass
			RB1#5	22.96	-0.6	-2.75	20.21	0.105	100.00	Pass
			RB3#0	22.95	-0.6	-2.75	20.20	0.105	100.00	Pass
			RB3#2	23.12	-0.6	-2.75	20.37	0.109	100.00	Pass
			RB3#3	23.07	-0.6	-2.75	20.32	0.108	100.00	Pass
			RB6#0	22.15	-0.6	-2.75	19.40	0.087	100.00	Pass
		16-QAM	RB1#0	22.01	-0.6	-2.75	19.26	0.084	100.00	Pass
			RB1#3	22.18	-0.6	-2.75	19.43	0.088	100.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part90)										
3 MHz			RB1#5	22.04	-0.6	-2.75	19.29	0.085	100.00	Pass
			RB3#0	22.32	-0.6	-2.75	19.57	0.091	100.00	Pass
			RB3#2	22.32	-0.6	-2.75	19.57	0.091	100.00	Pass
			RB3#3	22.16	-0.6	-2.75	19.41	0.087	100.00	Pass
			RB6#0	21.3	-0.6	-2.75	18.55	0.072	100.00	Pass
	LCH	QPSK	RB1#0	23.07	-0.6	-2.75	20.32	0.108	100.00	Pass
			RB1#7	23.15	-0.6	-2.75	20.40	0.110	100.00	Pass
			RB1#14	23.14	-0.6	-2.75	20.39	0.109	100.00	Pass
			RB8#0	22.12	-0.6	-2.75	19.37	0.086	100.00	Pass
			RB8#4	22.17	-0.6	-2.75	19.42	0.087	100.00	Pass
			RB8#7	22.13	-0.6	-2.75	19.38	0.087	100.00	Pass
			RB15#0	22.07	-0.6	-2.75	19.32	0.086	100.00	Pass
		16-QAM	RB1#0	22.33	-0.6	-2.75	19.58	0.091	100.00	Pass
			RB1#7	22.31	-0.6	-2.75	19.56	0.090	100.00	Pass
			RB1#14	22.46	-0.6	-2.75	19.71	0.094	100.00	Pass
			RB8#0	21.46	-0.6	-2.75	18.71	0.074	100.00	Pass
			RB8#4	21.43	-0.6	-2.75	18.68	0.074	100.00	Pass
			RB8#7	21.4	-0.6	-2.75	18.65	0.073	100.00	Pass
			RB15#0	21.26	-0.6	-2.75	18.51	0.071	100.00	Pass
	MCH	QPSK	RB1#0	23.22	-0.6	-2.75	20.47	0.111	100.00	Pass
			RB1#7	23.16	-0.6	-2.75	20.41	0.110	100.00	Pass
			RB1#14	23.02	-0.6	-2.75	20.27	0.106	100.00	Pass
			RB8#0	22.19	-0.6	-2.75	19.44	0.088	100.00	Pass
			RB8#4	22.2	-0.6	-2.75	19.45	0.088	100.00	Pass
			RB8#7	22.05	-0.6	-2.75	19.30	0.085	100.00	Pass
			RB15#0	22.06	-0.6	-2.75	19.31	0.085	100.00	Pass
		16-QAM	RB1#0	22.09	-0.6	-2.75	19.34	0.086	100.00	Pass
			RB1#7	21.82	-0.6	-2.75	19.07	0.081	100.00	Pass
			RB1#14	21.74	-0.6	-2.75	18.99	0.079	100.00	Pass
			RB8#0	21.18	-0.6	-2.75	18.43	0.070	100.00	Pass
			RB8#4	21.24	-0.6	-2.75	18.49	0.071	100.00	Pass
			RB8#7	21.09	-0.6	-2.75	18.34	0.068	100.00	Pass
			RB15#0	21.12	-0.6	-2.75	18.37	0.069	100.00	Pass
	HCH	QPSK	RB1#0	23	-0.6	-2.75	20.25	0.106	100.00	Pass
			RB1#7	23.02	-0.6	-2.75	20.27	0.106	100.00	Pass
			RB1#14	22.97	-0.6	-2.75	20.22	0.105	100.00	Pass
			RB8#0	22.08	-0.6	-2.75	19.33	0.086	100.00	Pass
			RB8#4	22.09	-0.6	-2.75	19.34	0.086	100.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part90)										
		16-QAM	RB8#7	22.05	-0.6	-2.75	19.30	0.085	100.00	Pass
			RB15#0	22.09	-0.6	-2.75	19.34	0.086	100.00	Pass
			RB1#0	22	-0.6	-2.75	19.25	0.084	100.00	Pass
			RB1#7	21.95	-0.6	-2.75	19.20	0.083	100.00	Pass
			RB1#14	21.92	-0.6	-2.75	19.17	0.083	100.00	Pass
			RB8#0	20.98	-0.6	-2.75	18.23	0.067	100.00	Pass
			RB8#4	20.98	-0.6	-2.75	18.23	0.067	100.00	Pass
			RB8#7	20.96	-0.6	-2.75	18.21	0.066	100.00	Pass
			RB15#0	21.08	-0.6	-2.75	18.33	0.068	100.00	Pass
5 MHz	LCH	QPSK	RB1#0	23.12	-0.6	-2.75	20.37	0.109	100.00	Pass
			RB1#13	23.13	-0.6	-2.75	20.38	0.109	100.00	Pass
			RB1#24	23.1	-0.6	-2.75	20.35	0.108	100.00	Pass
			RB12#0	22.19	-0.6	-2.75	19.44	0.088	100.00	Pass
			RB12#6	22.09	-0.6	-2.75	19.34	0.086	100.00	Pass
			RB12#13	22.1	-0.6	-2.75	19.35	0.086	100.00	Pass
			RB25#0	22.11	-0.6	-2.75	19.36	0.086	100.00	Pass
		16-QAM	RB1#0	21.74	-0.6	-2.75	18.99	0.079	100.00	Pass
			RB1#13	21.71	-0.6	-2.75	18.96	0.079	100.00	Pass
			RB1#24	21.56	-0.6	-2.75	18.81	0.076	100.00	Pass
			RB12#0	21.17	-0.6	-2.75	18.42	0.070	100.00	Pass
			RB12#6	21.15	-0.6	-2.75	18.40	0.069	100.00	Pass
			RB12#13	21.14	-0.6	-2.75	18.39	0.069	100.00	Pass
			RB25#0	21.34	-0.6	-2.75	18.59	0.072	100.00	Pass
	MCH	QPSK	RB1#0	23.01	-0.6	-2.75	20.26	0.106	100.00	Pass
			RB1#13	23.2	-0.6	-2.75	20.45	0.111	100.00	Pass
			RB1#24	23.08	-0.6	-2.75	20.33	0.108	100.00	Pass
			RB12#0	22.34	-0.6	-2.75	19.59	0.091	100.00	Pass
			RB12#6	22.22	-0.6	-2.75	19.47	0.089	100.00	Pass
			RB12#13	22.06	-0.6	-2.75	19.31	0.085	100.00	Pass
			RB25#0	22.12	-0.6	-2.75	19.37	0.086	100.00	Pass
		16-QAM	RB1#0	21.97	-0.6	-2.75	19.22	0.084	100.00	Pass
			RB1#13	21.7	-0.6	-2.75	18.95	0.079	100.00	Pass
			RB1#24	21.58	-0.6	-2.75	18.83	0.076	100.00	Pass
			RB12#0	21.03	-0.6	-2.75	18.28	0.067	100.00	Pass
			RB12#6	21.15	-0.6	-2.75	18.40	0.069	100.00	Pass
			RB12#13	21.04	-0.6	-2.75	18.29	0.067	100.00	Pass
			RB25#0	21.09	-0.6	-2.75	18.34	0.068	100.00	Pass
	HCH	QPSK	RB1#0	22.89	-0.6	-2.75	20.14	0.103	100.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND26 (Part90)										
			RB1#13	23.02	-0.6	-2.75	20.27	0.106	100.00	Pass
			RB1#24	22.88	-0.6	-2.75	20.13	0.103	100.00	Pass
			RB12#0	22.01	-0.6	-2.75	19.26	0.084	100.00	Pass
			RB12#6	22.15	-0.6	-2.75	19.40	0.087	100.00	Pass
			RB12#13	22.24	-0.6	-2.75	19.49	0.089	100.00	Pass
			RB25#0	22.12	-0.6	-2.75	19.37	0.086	100.00	Pass
		16-QAM	RB1#0	21.88	-0.6	-2.75	19.13	0.082	100.00	Pass
			RB1#13	21.93	-0.6	-2.75	19.18	0.083	100.00	Pass
			RB1#24	21.86	-0.6	-2.75	19.11	0.081	100.00	Pass
			RB12#0	20.98	-0.6	-2.75	18.23	0.067	100.00	Pass
			RB12#6	21.05	-0.6	-2.75	18.30	0.068	100.00	Pass
			RB12#13	21.06	-0.6	-2.75	18.31	0.068	100.00	Pass
			RB25#0	20.94	-0.6	-2.75	18.19	0.066	100.00	Pass
10 MHz	MCH	QPSK	RB1#0	23.16	-0.6	-2.75	20.41	0.110	100.00	Pass
			RB1#25	23.2	-0.6	-2.75	20.45	0.111	100.00	Pass
			RB1#49	23	-0.6	-2.75	20.25	0.106	100.00	Pass
			RB25#0	22.18	-0.6	-2.75	19.43	0.088	100.00	Pass
			RB25#13	22.15	-0.6	-2.75	19.40	0.087	100.00	Pass
			RB25#25	22.06	-0.6	-2.75	19.31	0.085	100.00	Pass
			RB50#0	22.12	-0.6	-2.75	19.37	0.086	100.00	Pass
		16-QAM	RB1#0	22.08	-0.6	-2.75	19.33	0.086	100.00	Pass
			RB1#25	22.14	-0.6	-2.75	19.39	0.087	100.00	Pass
			RB1#49	21.96	-0.6	-2.75	19.21	0.083	100.00	Pass
			RB25#0	21.28	-0.6	-2.75	18.53	0.071	100.00	Pass
			RB25#13	21.26	-0.6	-2.75	18.51	0.071	100.00	Pass
			RB25#25	21.24	-0.6	-2.75	18.49	0.071	100.00	Pass
			RB50#0	21.14	-0.6	-2.75	18.39	0.069	100.00	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-SZ2480881-501 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)	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	4.22	13	Pass
				RB100#0	4.92	13	Pass
			16-QAM	RB1#0	5.02	13	Pass
				RB100#0	5.77	13	Pass
		MCH	QPSK	RB1#0	4.31	13	Pass
				RB100#0	4.97	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB100#0	5.81	13	Pass
		HCH	QPSK	RB1#0	4.22	13	Pass
				RB100#0	5.06	13	Pass
			16-QAM	RB1#0	5.16	13	Pass
				RB100#0	5.86	13	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.27	13	Pass
				RB100#0	5.02	13	Pass
			16-QAM	RB1#0	5.02	13	Pass
				RB100#0	5.91	13	Pass
		MCH	QPSK	RB1#0	4.41	13	Pass
				RB100#0	4.97	13	Pass
			16-QAM	RB1#0	5.3	13	Pass
				RB100#0	5.86	13	Pass
		HCH	QPSK	RB1#0	4.17	13	Pass
				RB100#0	4.78	13	Pass
			16-QAM	RB1#0	5.11	13	Pass
				RB100#0	5.62	13	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	4.45	13	Pass
				RB50#0	5.2	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB50#0	5.95	13	Pass
		MCH	QPSK	RB1#0	4.45	13	Pass
				RB50#0	5.11	13	Pass
			16-QAM	RB1#0	5.39	13	Pass
				RB50#0	5.95	13	Pass
		HCH	QPSK	RB1#0	4.41	13	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
			16-QAM	RB50#0	5.02	13	Pass
				RB1#0	5.34	13	Pass
				RB50#0	5.86	13	Pass
LTE Band 12	10 MHz	LCH	QPSK	RB1#0	4.22	13	Pass
				RB50#0	5.11	13	Pass
			16-QAM	RB1#0	5.06	13	Pass
				RB50#0	5.86	13	Pass
		MCH	QPSK	RB1#0	4.31	13	Pass
				RB50#0	5.02	13	Pass
			16-QAM	RB1#0	5.2	13	Pass
				RB50#0	5.86	13	Pass
		HCH	QPSK	RB1#0	4.12	13	Pass
				RB50#0	4.97	13	Pass
			16-QAM	RB1#0	5.02	13	Pass
				RB50#0	5.81	13	Pass
LTE Band 13	10 MHz	MCH	QPSK	RB1#0	4.27	13	Pass
				RB50#0	5.16	13	Pass
			16-QAM	RB1#0	5.06	13	Pass
				RB50#0	5.91	13	Pass
LTE Band 25	20 MHz	LCH	QPSK	RB1#0	4.27	13	Pass
				RB100#0	4.92	13	Pass
			16-QAM	RB1#0	5.02	13	Pass
				RB100#0	5.77	13	Pass
		MCH	QPSK	RB1#0	4.31	13	Pass
				RB100#0	4.97	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB100#0	5.77	13	Pass
		HCH	QPSK	RB1#0	4.31	13	Pass
				RB100#0	4.87	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB100#0	5.77	13	Pass
LTE Band 26 (Part22)	15 MHz	LCH	QPSK	RB1#0	4.36	13	Pass
				RB75#0	5.34	13	Pass
			16-QAM	RB1#0	5.2	13	Pass
				RB75#0	6.09	13	Pass
		MCH	QPSK	RB1#0	4.41	13	Pass
				RB75#0	5.25	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB75#0	6	13	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
		HCH	QPSK	RB1#0	4.41	13	Pass
				RB75#0	5.25	13	Pass
			16-QAM	RB1#0	5.2	13	Pass
				RB75#0	6	13	Pass
LTE Band 26 (Part90)	10 MHz	MCH	QPSK	RB1#0	4.41	13	Pass
				RB50#0	5.06	13	Pass
			16-QAM	RB1#0	5.2	13	Pass
				RB50#0	5.86	13	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-SZ2480881-501 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)
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.288
			16-QAM	RB6#0	1.089	1.279
		MCH	QPSK	RB6#0	1.089	1.311
			16-QAM	RB6#0	1.085	1.286
		HCH	QPSK	RB6#0	1.091	1.275
			16-QAM	RB6#0	1.09	1.284
	3 MHz	LCH	QPSK	RB15#0	2.703	2.984
			16-QAM	RB15#0	2.703	2.977
		MCH	QPSK	RB15#0	2.699	2.982
			16-QAM	RB15#0	2.695	2.989
		HCH	QPSK	RB15#0	2.699	2.99
			16-QAM	RB15#0	2.699	2.988
	5 MHz	LCH	QPSK	RB25#0	4.507	5.008
			16-QAM	RB25#0	4.498	4.984
		MCH	QPSK	RB25#0	4.493	5.011
			16-QAM	RB25#0	4.505	5.024
		HCH	QPSK	RB25#0	4.491	4.982
			16-QAM	RB25#0	4.501	5.011
	10 MHz	LCH	QPSK	RB50#0	8.934	9.902
			16-QAM	RB50#0	8.937	9.821
		MCH	QPSK	RB50#0	8.93	9.826
			16-QAM	RB50#0	8.937	9.843
		HCH	QPSK	RB50#0	8.941	9.861
			16-QAM	RB50#0	8.924	9.87
	15 MHz	LCH	QPSK	RB75#0	13.402	14.684
			16-QAM	RB75#0	13.401	14.61
		MCH	QPSK	RB75#0	13.376	14.675
			16-QAM	RB75#0	13.424	14.701
		HCH	QPSK	RB75#0	13.379	14.779
			16-QAM	RB75#0	13.395	14.737
	20 MHz	LCH	QPSK	RB100#0	17.836	19.241
			16-QAM	RB100#0	17.86	19.476
		MCH	QPSK	RB100#0	17.841	19.346

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
			16-QAM	RB100#0	17.844	19.465
		HCH	QPSK	RB100#0	17.893	19.464
			16-QAM	RB100#0	17.844	19.45

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.275
			16-QAM	RB6#0	1.094	1.286
		MCH	QPSK	RB6#0	1.09	1.294
			16-QAM	RB6#0	1.086	1.275
		HCH	QPSK	RB6#0	1.094	1.272
			16-QAM	RB6#0	1.089	1.301
	3 MHz	LCH	QPSK	RB15#0	2.697	2.985
			16-QAM	RB15#0	2.697	2.979
		MCH	QPSK	RB15#0	2.698	2.981
			16-QAM	RB15#0	2.7	2.99
		HCH	QPSK	RB15#0	2.7	2.992
			16-QAM	RB15#0	2.696	2.992
	5 MHz	LCH	QPSK	RB25#0	4.503	5.021
			16-QAM	RB25#0	4.491	4.983
		MCH	QPSK	RB25#0	4.497	4.995
			16-QAM	RB25#0	4.508	5.013
		HCH	QPSK	RB25#0	4.496	4.964
			16-QAM	RB25#0	4.505	5.028
	10 MHz	LCH	QPSK	RB50#0	8.957	9.923
			16-QAM	RB50#0	8.949	9.839
		MCH	QPSK	RB50#0	8.94	9.868
			16-QAM	RB50#0	8.94	9.893
		HCH	QPSK	RB50#0	8.951	9.868
			16-QAM	RB50#0	8.934	9.894
	15 MHz	LCH	QPSK	RB75#0	13.41	14.729
			16-QAM	RB75#0	13.414	14.692
		MCH	QPSK	RB75#0	13.379	14.673
			16-QAM	RB75#0	13.423	14.645
		HCH	QPSK	RB75#0	13.369	14.76
			16-QAM	RB75#0	13.413	14.678
	20 MHz	LCH	QPSK	RB100#0	17.872	19.305
			16-QAM	RB100#0	17.904	19.366
		MCH	QPSK	RB100#0	17.845	19.363
			16-QAM	RB100#0	17.856	19.467
		HCH	QPSK	RB100#0	17.838	19.325
			16-QAM	RB100#0	17.832	19.292

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.089	1.291
			16-QAM	RB6#0	1.094	1.289
		MCH	QPSK	RB6#0	1.091	1.291
			16-QAM	RB6#0	1.085	1.278
		HCH	QPSK	RB6#0	1.091	1.265
			16-QAM	RB6#0	1.091	1.286
	3 MHz	LCH	QPSK	RB15#0	2.702	2.985
			16-QAM	RB15#0	2.704	2.989
		MCH	QPSK	RB15#0	2.698	2.987
			16-QAM	RB15#0	2.695	2.983
		HCH	QPSK	RB15#0	2.699	2.99
			16-QAM	RB15#0	2.697	2.989
	5 MHz	LCH	QPSK	RB25#0	4.511	5.024
			16-QAM	RB25#0	4.494	4.993
		MCH	QPSK	RB25#0	4.492	4.991
			16-QAM	RB25#0	4.5	5.023
		HCH	QPSK	RB25#0	4.488	4.964
			16-QAM	RB25#0	4.493	5.01
	10 MHz	LCH	QPSK	RB50#0	8.978	9.97
			16-QAM	RB50#0	8.967	9.875
		MCH	QPSK	RB50#0	8.941	9.856
			16-QAM	RB50#0	8.941	9.83
		HCH	QPSK	RB50#0	8.941	9.84
			16-QAM	RB50#0	8.934	9.871

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 12	1.4 MHz	LCH	QPSK	RB6#0	1.089	1.292
			16-QAM	RB6#0	1.094	1.293
		MCH	QPSK	RB6#0	1.092	1.292
			16-QAM	RB6#0	1.087	1.27
		HCH	QPSK	RB6#0	1.093	1.27
			16-QAM	RB6#0	1.09	1.286
	3 MHz	LCH	QPSK	RB15#0	2.702	2.986
			16-QAM	RB15#0	2.704	2.992
		MCH	QPSK	RB15#0	2.699	2.981
			16-QAM	RB15#0	2.697	2.989
		HCH	QPSK	RB15#0	2.702	2.981
			16-QAM	RB15#0	2.697	2.988
	5 MHz	LCH	QPSK	RB25#0	4.506	5.018
			16-QAM	RB25#0	4.5	4.99
		MCH	QPSK	RB25#0	4.495	5.001
			16-QAM	RB25#0	4.503	5.02
		HCH	QPSK	RB25#0	4.495	4.978
			16-QAM	RB25#0	4.507	5.044
	10 MHz	LCH	QPSK	RB50#0	8.974	9.974
			16-QAM	RB50#0	8.958	9.884
		MCH	QPSK	RB50#0	8.942	9.842
			16-QAM	RB50#0	8.933	9.842
		HCH	QPSK	RB50#0	8.937	9.836
			16-QAM	RB50#0	8.934	9.871

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 13	5 MHz	LCH	QPSK	RB25#0	4.502	4.992
			16-QAM	RB25#0	4.496	4.982
		MCH	QPSK	RB25#0	4.503	5.008
			16-QAM	RB25#0	4.509	5.008
		HCH	QPSK	RB25#0	4.494	4.986
			16-QAM	RB25#0	4.505	5.015
	10 MHz	MCH	QPSK	RB50#0	8.998	9.996
			16-QAM	RB50#0	8.96	9.879

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 25	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.27
			16-QAM	RB6#0	1.094	1.298
		MCH	QPSK	RB6#0	1.091	1.295
			16-QAM	RB6#0	1.088	1.272
		HCH	QPSK	RB6#0	1.091	1.276
			16-QAM	RB6#0	1.089	1.292
	3 MHz	LCH	QPSK	RB15#0	2.698	2.984
			16-QAM	RB15#0	2.699	2.986
		MCH	QPSK	RB15#0	2.701	2.978
			16-QAM	RB15#0	2.701	2.987
		HCH	QPSK	RB15#0	2.704	2.994
			16-QAM	RB15#0	2.697	2.994
	5 MHz	LCH	QPSK	RB25#0	4.508	4.989
			16-QAM	RB25#0	4.494	4.978
		MCH	QPSK	RB25#0	4.494	5.017
			16-QAM	RB25#0	4.501	4.999
		HCH	QPSK	RB25#0	4.496	4.984
			16-QAM	RB25#0	4.5	5.035
	10 MHz	LCH	QPSK	RB50#0	8.933	9.895
			16-QAM	RB50#0	8.926	9.828
		MCH	QPSK	RB50#0	8.935	9.866
			16-QAM	RB50#0	8.939	9.839
		HCH	QPSK	RB50#0	8.943	9.862
			16-QAM	RB50#0	8.95	9.854
	15 MHz	LCH	QPSK	RB75#0	13.393	14.678
			16-QAM	RB75#0	13.391	14.629
		MCH	QPSK	RB75#0	13.387	14.644
			16-QAM	RB75#0	13.413	14.67
		HCH	QPSK	RB75#0	13.335	14.63
			16-QAM	RB75#0	13.365	14.621
	20 MHz	LCH	QPSK	RB100#0	17.827	19.259
			16-QAM	RB100#0	17.881	19.364
		MCH	QPSK	RB100#0	17.832	19.32
			16-QAM	RB100#0	17.855	19.392
		HCH	QPSK	RB100#0	17.789	19.315
			16-QAM	RB100#0	17.807	19.245

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 26 (Part22)	1.4 MHz	LCH	QPSK	RB6#0	1.088	1.293
			16-QAM	RB6#0	1.092	1.278
		MCH	QPSK	RB6#0	1.089	1.291
			16-QAM	RB6#0	1.083	1.278
		HCH	QPSK	RB6#0	1.091	1.261
			16-QAM	RB6#0	1.092	1.281
	3 MHz	LCH	QPSK	RB15#0	2.699	2.971
			16-QAM	RB15#0	2.697	2.998
		MCH	QPSK	RB15#0	2.7	2.984
			16-QAM	RB15#0	2.697	2.985
		HCH	QPSK	RB15#0	2.702	2.991
			16-QAM	RB15#0	2.693	2.977
	5 MHz	LCH	QPSK	RB25#0	4.508	4.987
			16-QAM	RB25#0	4.497	4.986
		MCH	QPSK	RB25#0	4.492	5
			16-QAM	RB25#0	4.505	5.012
		HCH	QPSK	RB25#0	4.486	4.955
			16-QAM	RB25#0	4.497	5.017
	10 MHz	LCH	QPSK	RB50#0	8.973	9.982
			16-QAM	RB50#0	8.958	9.882
		MCH	QPSK	RB50#0	8.929	9.858
			16-QAM	RB50#0	8.935	9.881
		HCH	QPSK	RB50#0	8.93	9.825
			16-QAM	RB50#0	8.938	9.859
	15 MHz	LCH	QPSK	RB75#0	13.444	14.734
			16-QAM	RB75#0	13.434	14.746
		MCH	QPSK	RB75#0	13.375	14.626
			16-QAM	RB75#0	13.415	14.717
		HCH	QPSK	RB75#0	13.373	14.71
			16-QAM	RB75#0	13.412	14.617

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 26 (Part90)	1.4 MHz	LCH	QPSK	RB6#0	1.086	1.277
			16-QAM	RB6#0	1.09	1.293
		MCH	QPSK	RB6#0	1.088	1.296
			16-QAM	RB6#0	1.084	1.276
		HCH	QPSK	RB6#0	1.09	1.271
			16-QAM	RB6#0	1.089	1.288
	3 MHz	LCH	QPSK	RB15#0	2.701	2.97
			16-QAM	RB15#0	2.703	2.996
		MCH	QPSK	RB15#0	2.699	2.979
			16-QAM	RB15#0	2.7	2.983
		HCH	QPSK	RB15#0	2.702	2.987
			16-QAM	RB15#0	2.696	2.988
	5 MHz	LCH	QPSK	RB25#0	4.503	4.991
			16-QAM	RB25#0	4.49	4.973
		MCH	QPSK	RB25#0	4.497	4.994
			16-QAM	RB25#0	4.502	5.003
		HCH	QPSK	RB25#0	4.494	4.969
			16-QAM	RB25#0	4.496	5.036
	10 MHz	MCH	QPSK	RB50#0	8.946	9.938
			16-QAM	RB50#0	8.934	9.833

A.4 Frequency Stability

A.4.1 Frequency Stability

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Valuer(Hz)	Limits (Hz)	
3.7	-30	-3.95	±4700	Pass
	-20	-3.56		
	-10	-4.16		
	0	-3.23		
	+10	-3.76		
	+20	-3.98		
	+25	-4.18		
	+30	-4.39		
	+40	-3.56		
	+50	-3.43		
	+55	-3.78		
4	+25	-4.03		
3.3	+25	-4.05		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-5.09	±4700	Pass
	-20	-4.36		
	-10	-3.1		
	0	-4.53		
	+10	-3.66		
	+20	-4.06		
	+25	-4.72		
	+30	-4.12		
	+40	-3.02		
	+50	-5.09		
	+55	-2.83		
4	+25	-3.55		
3.3	+25	-4.08		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-1.39	±4331.25	Pass
	-20	-0.13		
	-10	0.59		
	0	0.19		
	+10	0.01		
	+20	-0.14		
	+25	-0.1		
	+30	-0.33		
	+40	-0.14		
	+50	-0.1		
	+55	-0.16		
4	+25	-0.77		
3.3	+25	-0.31		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-0.82	±4331.25	Pass
	-20	-1.23		
	-10	-0.24		
	0	-0.64		
	+10	-0.37		
	+20	-0.01		
	+25	-0.24		
	+30	-0.19		
	+40	-0.1		
	+50	-0.19		
	+55	-0.57		
4	+25	0.24		
3.3	+25	-0.7		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-1.24	±2091.25	Pass
	-20	-1.53		
	-10	-0.64		
	0	-0.19		
	+10	-1.57		
	+20	-1.47		
	+25	-1.02		
	+30	-1.5		
	+40	-0.92		
	+50	-1.06		
	+55	-0.86		
4	+25	-0.4		
3.3	+25	0.73		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-0.44	±2091.25	Pass
	-20	-0.57		
	-10	-1.04		
	0	-1.67		
	+10	-1.93		
	+20	-0.9		
	+25	-0.93		
	+30	-1.4		
	+40	-1.37		
	+50	-1.12		
	+55	-1		
4	+25	-0.23		
3.3	+25	-1.63		

LTE Band 12 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-0.72	±1768.75	Pass
	-20	-1.47		
	-10	-1.09		
	0	-0.43		
	+10	-1.2		
	+20	-0.2		
	+25	-0.77		
	+30	-1.02		
	+40	-0.66		
	+50	-1.83		
	+55	-1.93		
4	+25	-0.2		
3.3	+25	0.62		

LTE Band 12 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-1.73	±1768.75	Pass
	-20	-1.49		
	-10	-0.93		
	0	-1.27		
	+10	-1.04		
	+20	-0.84		
	+25	-1.86		
	+30	-1.92		
	+40	-1.76		
	+50	-1.62		
	+55	-1.16		
4	+25	-1.43		
3.3	+25	-0.99		

LTE Band 13 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-0.7	±1955	Pass
	-20	-0.94		
	-10	-1.57		
	0	-0.1		
	+10	0.04		
	+20	-0.7		
	+25	-2.36		
	+30	0.03		
	+40	-1.12		
	+50	-0.51		
	+55	-0.6		
4	+25	-1.47		
3.3	+25	-0.6		

LTE Band 13 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	-1.42	±1955	Pass
	-20	-1.02		
	-10	-1.79		
	0	-0.62		
	+10	-1.42		
	+20	-1.06		
	+25	-1.62		
	+30	-1.32		
	+40	-1.46		
	+50	-1.5		
	+55	-1.56		
4	+25	-1.83		
3.3	+25	-1.76		

LTE Band 25 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	0.44	±4706.25	Pass
	-20	0.34		
	-10	0.27		
	0	-0.27		
	+10	0.19		
	+20	-0.03		
	+25	0.51		
	+30	-0.16		
	+40	-0.37		
	+50	0.11		
	+55	0.33		
4	+25	0.34		
3.3	+25	0.13		

LTE Band 25 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value (Hz)	Limits (Hz)	
3.7	-30	0.1	±4706.25	Pass
	-20	0.34		
	-10	0.46		
	0	0.7		
	+10	0.01		
	+20	0.87		
	+25	-0.44		
	+30	0.56		
	+40	-0.82		
	+50	-0.04		
	+55	-0.03		
4	+25	1.2		
3.3	+25	0.19		

LTE Band 26 (Part22) QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
3.7	-30	-0.96	±2091.25	Pass
	-20	0.16		
	-10	-1.04		
	0	-1.02		
	+10	0.04		
	+20	-1.26		
	+25	-1.2		
	+30	-0.56		
	+40	-0.31		
	+50	-0.57		
	+55	-1.79		
4	+25	-0.49		
3.3	+25	-0.67		

LTE Band 26 (Part22) 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
3.7	-30	-1.34	±2091.25	Pass
	-20	-0.64		
	-10	-1.23		
	0	-0.92		
	+10	-2.33		
	+20	-1.17		
	+25	-1.44		
	+30	-0.92		
	+40	-1.29		
	+50	-1.47		
	+55	-1.16		
4	+25	-1.7		
3.3	+25	-1.42		

LTE Band 26 (Part90) QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 819 MHz		
		Value(Hz)	Limits (Hz)	
3.7	-30	-2.88	±2047.5	Pass
	-20	-2.13		
	-10	-2.02		
	0	-1.83		
	+10	-1.76		
	+20	-2.32		
	+25	-2.4		
	+30	-2.33		
	+40	-1.67		
	+50	-1.77		
	+55	-1.72		
4	+25	-2.2		
3.3	+25	-2.68		

LTE Band 26 (Part90) 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 819 MHz		
		Value(Hz)	Limits (Hz)	
3.7	-30	-2.49	±2047.5	Pass
	-20	-2.45		
	-10	-2.8		
	0	-1.95		
	+10	-1.82		
	+20	-1.87		
	+25	-2.15		
	+30	-2.65		
	+40	-2.59		
	+50	-2.3		
	+55	-2.07		
4	+25	-2.15		
3.3	+25	-1.96		

A.4.2 Frequency Range

Note1: Only for relevant requirements of RSS standard.

Note2: Test plots please refer to the document “Annex No.: BL-SZ2480881-501 Data Part 3.1.pdf”.

Note3: Test plots please refer to the document “Annex No.: BL-SZ2480881-501 Data Part 3.2.pdf”.

LTE Mode Test Verdict

LTE B2								
Test Condition		LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	1850.5500	1850	1.1	1909.4500	1910	1.1	Pass
	-20	1850.5500		1.2	1909.4500		1.2	Pass
	-10	1850.5500		1.3	1909.4500		1.3	Pass
	0	1850.5500		1.4	1909.4500		1.4	Pass
	+10	1850.5500		1.5	1909.4500		1.5	Pass
	+20	1850.5500		1.6	1909.4500		1.6	Pass
	+25	1850.5500		1.7	1909.4500		1.7	Pass
	+30	1850.5500		1.8	1909.4500		1.8	Pass
	+40	1850.5500		1.9	1909.4500		1.9	Pass
	+50	1850.5500		1.10	1909.4500		1.10	Pass
	+55	1850.5500		1.11	1909.4500		1.11	Pass
4	+25	1850.5500		1.12	1909.4500		1.12	Pass
3.3	+25	1850.5500		1.13	1909.4500		1.13	Pass
LTE B4								
Test Condition		LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	1710.5300	1710	2.1	1754.4399	1755	2.1	Pass
	-20	1710.5300		2.2	1754.4399		2.2	Pass
	-10	1710.5300		2.3	1754.4399		2.3	Pass
	0	1710.5300		2.4	1754.4399		2.4	Pass
	+10	1710.5300		2.5	1754.4399		2.5	Pass
	+20	1710.5300		2.6	1754.4399		2.6	Pass
	+25	1710.5300		2.7	1754.4399		2.7	Pass
	+30	1710.5300		2.8	1754.4399		2.8	Pass
	+40	1710.5300		2.9	1754.4399		2.9	Pass
	+50	1710.5300		2.10	1754.4399		2.10	Pass
	+55	1710.5300		2.11	1754.4399		2.11	Pass
4	+25	1710.5300		2.12	1754.4399		2.12	Pass
3.3	+25	1710.5300		2.13	1754.4399		2.13	Pass
LTE B5								
Test Condition								Verdict

Power (VDC)	Temperature (°C)	LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	
3.7	-30	824.5400	824	3.1	848.4400	849	3.1	Pass
	-20	824.5400		3.2	848.4400		3.2	Pass
	-10	824.5400		3.3	848.4400		3.3	Pass
	0	824.5400		3.4	848.4400		3.4	Pass
	+10	824.5400		3.5	848.4400		3.5	Pass
	+20	824.5400		3.6	848.4400		3.6	Pass
	+25	824.5400		3.7	848.4400		3.7	Pass
	+30	824.5400		3.8	848.4400		3.8	Pass
	+40	824.5400		3.9	848.4400		3.9	Pass
	+50	824.5400		3.10	848.4400		3.10	Pass
	+55	824.5400		3.11	848.4400		3.11	Pass
4	+25	824.5400		3.12	848.4400		3.12	Pass
3.3	+25	824.5400	3.13	848.4400	3.13	Pass		
LTE B12								
Test Condition		LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	699.5300	699	4.1	715.4400	716	4.1	Pass
	-20	699.5400		4.2	715.4500		4.2	Pass
	-10	699.5400		4.3	715.4400		4.3	Pass
	0	699.5400		4.4	715.4500		4.4	Pass
	+10	699.5400		4.5	715.4500		4.5	Pass
	+20	699.5400		4.6	715.4400		4.6	Pass
	+25	699.5300		4.7	715.4500		4.7	Pass
	+30	699.5400		4.8	715.4500		4.8	Pass
	+40	699.5400		4.9	715.4500		4.9	Pass
	+50	699.5300		4.10	715.4500		4.10	Pass
	+55	699.5400		4.11	715.4400		4.11	Pass
4	+25	699.5400		4.12	715.4500		4.12	Pass
3.3	+25	699.5300	4.13	715.4400	4.13	Pass		
LTE B13								
Test Condition		LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	777.5300	777	5.1	786.4600	787	5.1	Pass
	-20	777.5300		5.2	786.4600		5.2	Pass
	-10	777.5300		5.3	786.4600		5.3	Pass
	0	777.5300		5.4	786.4600		5.4	Pass
	+10	777.5300		5.5	786.4600		5.5	Pass
	+20	777.5300		5.6	786.4600		5.6	Pass
	+25	777.5300		5.7	786.4600		5.7	Pass

	+30	777.5300		5.8	786.4600		5.8	Pass
	+40	777.5300		5.9	786.4600		5.9	Pass
	+50	777.5300		5.10	786.4600		5.10	Pass
	+55	777.5300		5.11	786.4600		5.11	Pass
4	+25	777.5300		5.12	786.4600		5.12	Pass
3.3	+25	777.5300		5.13	786.4600		5.13	Pass
LTE B25								
Test Condition		LeftEdge (MHz)	Limit (MHz)		RightEdge (MHz)	Limit (MHz)		Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	1850.5500	1850	6.1	1914.4301	1915	6.1	Pass
	-20	1850.5500		6.2	1914.4301		6.2	Pass
	-10	1850.5500		6.3	1914.4301		6.3	Pass
	0	1850.5500		6.4	1914.4301		6.4	Pass
	+10	1850.5500		6.5	1914.4301		6.5	Pass
	+20	1850.5500		6.6	1914.4301		6.6	Pass
	+25	1850.5500		6.7	1914.4399		6.7	Pass
	+30	1850.5500		6.8	1914.4301		6.8	Pass
	+40	1850.5500		6.9	1914.4301		6.9	Pass
	+50	1850.5500		6.10	1914.4301		6.10	Pass
	+55	1850.5500	6.11	1914.4301	6.11	Pass		
4	+25	1850.5500	6.12	1914.4301	6.12	Pass		
3.3	+25	1850.5500	6.13	1914.4301	6.13	Pass		
LTE B26(part22)								
Test Condition		LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	Verdict
Power (VDC)	Temperature (°C)							
3.7	-30	824.5400	824	7.1	848.4400	849	7.1	Pass
	-20	824.5400		7.2	848.4500		7.2	Pass
	-10	824.5400		7.3	848.4400		7.3	Pass
	0	824.5400		7.4	848.4400		7.4	Pass
	+10	824.5400		7.5	848.4400		7.5	Pass
	+20	824.5400		7.6	848.4400		7.6	Pass
	+25	824.5400		7.7	848.4400		7.7	Pass
	+30	824.5400		7.8	848.4400		7.8	Pass
	+40	824.5400		7.9	848.4400		7.9	Pass
	+50	824.5400		7.10	848.4500		7.10	Pass
	+55	824.5400	7.11	848.4400	7.11	Pass		
4	+25	824.5400	7.12	848.4400	7.12	Pass		
3.3	+25	824.5400	7.13	848.4500	7.13	Pass		
LTE B26(part90)								
Test Condition								Verdict

Power (VDC)	Temperature (°C)	LeftEdge (MHz)	Limit (MHz)	Refer to PlotNote2	RightEdge (MHz)	Limit (MHz)	Refer to PlotNote3	
3.7	-30	814.5400	814	8.1	823.4500	824	8.1	Pass
	-20	814.5500		8.2	823.4500		8.2	Pass
	-10	814.5500		8.3	823.4500		8.3	Pass
	0	814.5500		8.4	823.4500		8.4	Pass
	+10	814.5400		8.5	823.4500		8.5	Pass
	+20	814.5400		8.6	823.4500		8.6	Pass
	+25	814.5400		8.7	823.4500		8.7	Pass
	+30	814.5400		8.8	823.4600		8.8	Pass
	+40	814.5400		8.9	823.4500		8.9	Pass
	+50	814.5400		8.10	823.4500		8.10	Pass
	+55	814.5500		8.11	823.4500		8.11	Pass
4	+25	814.5400		8.12	823.4500		8.12	Pass
3.3	+25	814.5400		8.13	823.4500		8.13	Pass

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-SZ2480881-501 Data Part 4.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
		HCH	16-QAM	RB1#0	Pass
			QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 12	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 13	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 25	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 26 (Part22)	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 26 (Part90)	1.4 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2480881-501 Data Part 5.pdf”.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
				RB75#0	Pass
			16-QAM	RB1#0	Pass
				RB75#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
		HCH	QPSK	RB1#74	Pass
				RB75#0	Pass
			16-QAM	RB1#74	Pass
				RB75#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
				RB100#0	Pass
			16-QAM	RB1#0	Pass
				RB100#0	Pass
		HCH	QPSK	RB1#99	Pass
				RB100#0	Pass
			16-QAM	RB1#99	Pass
				RB100#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdic
Band 4	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
				RB75#0	Pass
			16-QAM	RB1#0	Pass
				RB75#0	Pass
		HCH	QPSK	RB1#74	Pass
				RB75#0	Pass
			16-QAM	RB1#74	Pass
				RB1#74	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdic
				RB75#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
				RB100#0	Pass
			16-QAM	RB1#0	Pass
				RB100#0	Pass
		HCH	QPSK	RB1#99	Pass
				RB100#0	Pass
			16-QAM	RB1#99	Pass
				RB100#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 12	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 13	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 25	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
				RB75#0	Pass
			16-QAM	RB1#0	Pass
				RB75#0	Pass
		HCH	QPSK	RB1#74	Pass
				RB75#0	Pass
			16-QAM	RB1#74	Pass
				RB75#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
	20 MHz	LCH	QPSK	RB1#0	Pass
				RB100#0	Pass
			16-QAM	RB1#0	Pass
				RB100#0	Pass
		HCH	QPSK	RB1#99	Pass
				RB100#0	Pass
			16-QAM	RB1#99	Pass
				RB100#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 26 (Part22)	MH	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
				RB75#0	Pass
			16-QAM	RB1#0	Pass
				RB75#0	Pass
		HCH	QPSK	RB1#74	Pass
				RB75#0	Pass
			16-QAM	RB1#74	Pass
				RB75#0	Pass
				RB100#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict
Band 26 (Part90)	1.4 MHz	LCH	QPSK	RB1#0	Pass
				RB6#0	Pass
			16-QAM	RB1#0	Pass
				RB6#0	Pass
		HCH	QPSK	RB1#5	Pass
				RB6#0	Pass
			16-QAM	RB1#5	Pass
				RB6#0	Pass
	3 MHz	LCH	QPSK	RB1#0	Pass
				RB15#0	Pass
			16-QAM	RB1#0	Pass
				RB15#0	Pass
		HCH	QPSK	RB1#14	Pass
				RB15#0	Pass
			16-QAM	RB1#14	Pass
				RB15#0	Pass
	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass

A.7 Field Strength of Spurious Radiation

Note 1: All modes have been tested, and only the worst case data 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-SZ2480881-501 Data Part 6.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

LTE Mode Test Verdict

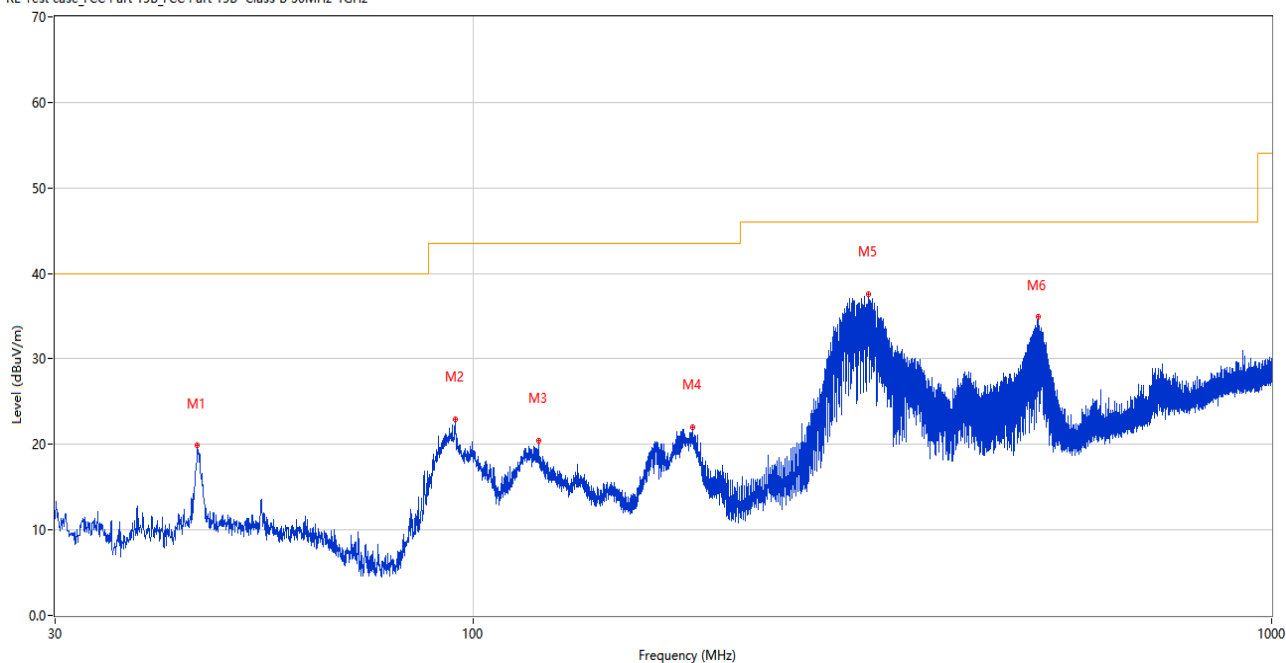
Test Band	Test Bandwidth (MHz)	RB Position	Verdict
Band 2	10	MID	Pass
Band 4	20	MID	Pass
Band 5	10	MID	Pass
Band 12	1.4	HIGH	Pass
Band 13	5	HIGH	Pass
Band 25	10	MID	Pass
Band 26 (Part22)	10	MID	Pass
Band 26 (Part90)	5	MID	Pass

A.8 Receiver Spurious Emissions

Note: Only the worst test results were recorded in this report.

30MHz to 1GHz, ANT H

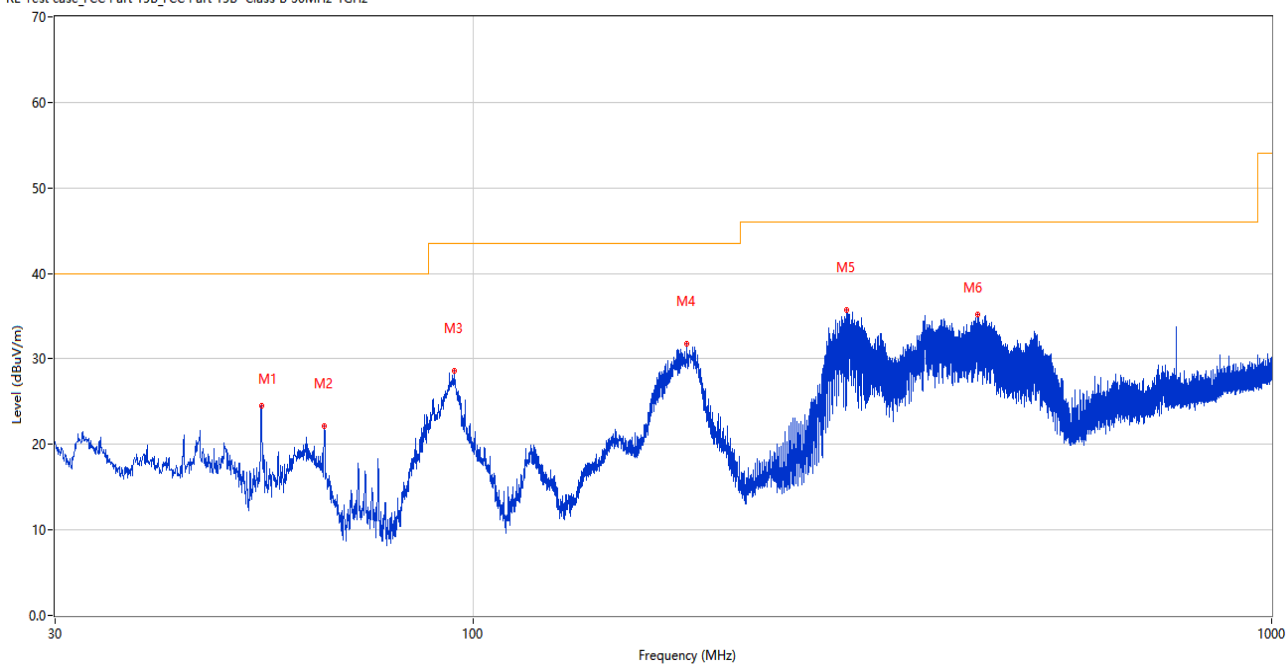
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.229	19.84	-25.52	40.0	20.16	Peak	355.00	100	Horizontal	Pass
2	95.135	22.97	-27.56	43.5	20.53	Peak	144.00	200	Horizontal	Pass
3	120.792	20.47	-28.48	43.5	23.03	Peak	329.00	200	Horizontal	Pass
4	188.352	22.01	-27.67	43.5	21.49	Peak	77.00	100	Horizontal	Pass
5	312.755	37.62	-23.34	46.0	8.38	Peak	117.00	100	Horizontal	Pass
6	510.344	34.91	-18.48	46.0	11.09	Peak	195.00	200	Horizontal	Pass

30MHz to 1GHz, ANT V

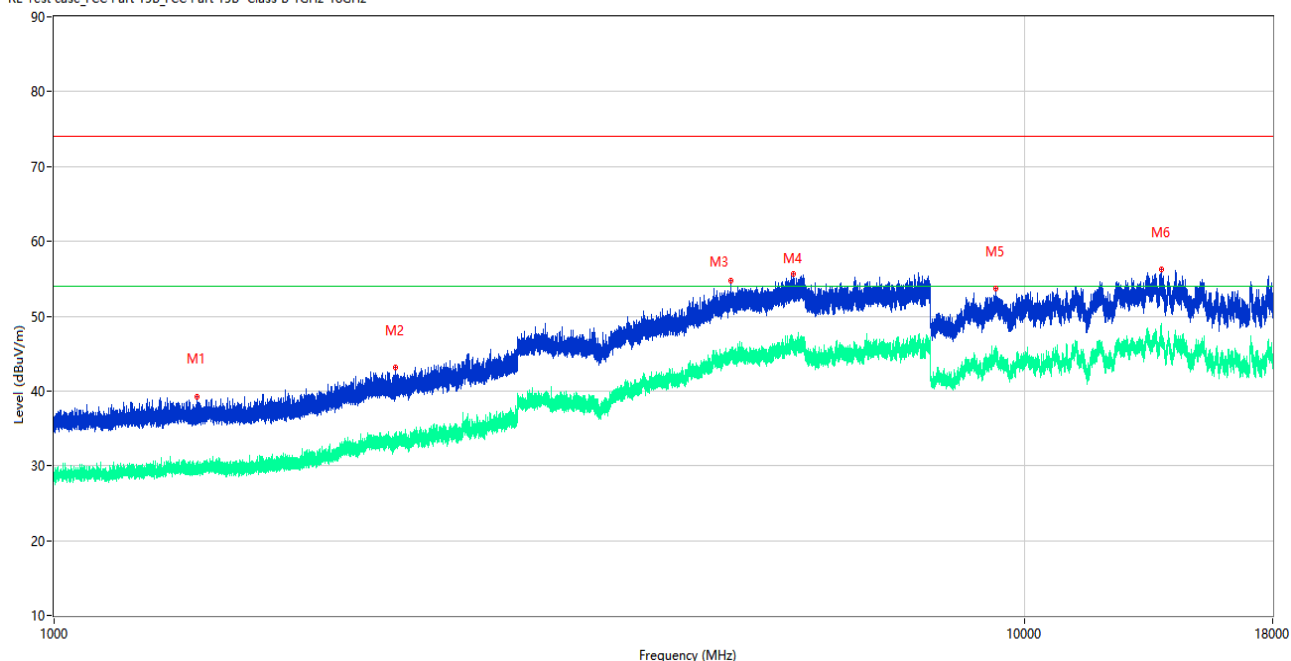
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.347	24.51	-25.58	40.0	15.49	Peak	348.00	100	Vertical	Pass
2	65.211	22.16	-27.62	40.0	17.84	Peak	18.00	100	Vertical	Pass
3	94.747	28.64	-27.60	43.5	14.86	Peak	19.00	100	Vertical	Pass
4	185.394	31.73	-28.01	43.5	11.77	Peak	0.00	100	Vertical	Pass
5	293.549	35.69	-23.85	46.0	10.31	Peak	360.00	200	Vertical	Pass
6	428.767	35.17	-20.19	46.0	10.83	Peak	207.00	100	Vertical	Pass

1GHz to 18GHz, ANT H

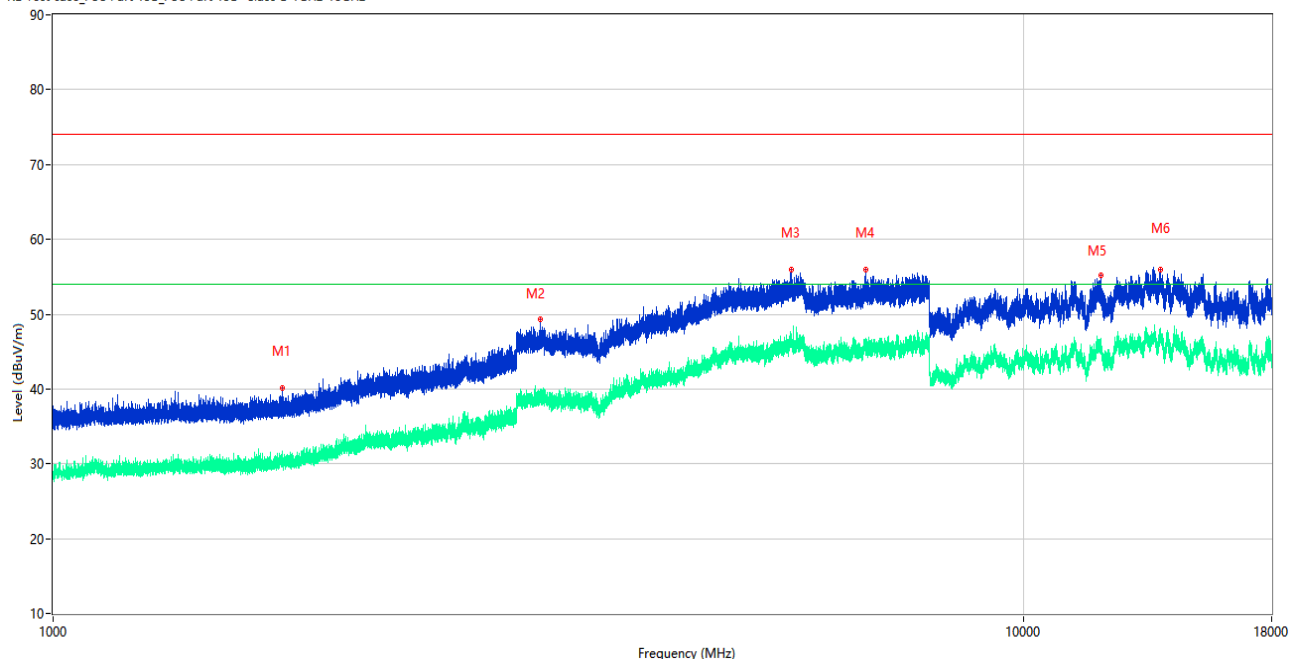
RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1405.100	39.30	-15.84	74.0	34.70	Peak	210.00	100	Horizontal	Pass
1**	1405.100	28.84	-15.84	54.0	25.16	AV	210.00	100	Horizontal	Pass
2	2245.600	43.11	-12.24	74.0	30.89	Peak	312.00	100	Horizontal	Pass
2**	2245.600	33.82	-12.24	54.0	20.18	AV	312.00	100	Horizontal	Pass
3	4983.750	54.72	2.35	74.0	19.28	Peak	229.00	100	Horizontal	Pass
3**	4983.750	44.58	2.35	54.0	9.42	AV	229.00	100	Horizontal	Pass
4	5770.750	55.71	3.23	74.0	18.29	Peak	121.00	100	Horizontal	Pass
4**	5770.750	46.14	3.23	54.0	7.86	AV	121.00	100	Horizontal	Pass
5	9331.000	53.71	2.16	74.0	20.29	Peak	181.00	100	Horizontal	Pass
5**	9331.000	44.80	2.16	54.0	9.20	AV	181.00	100	Horizontal	Pass
6	13814.000	56.21	5.63	74.0	17.79	Peak	326.00	100	Horizontal	Pass
6**	13814.000	49.08	5.63	54.0	4.92	AV	326.00	100	Horizontal	Pass

1GHz to 18GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



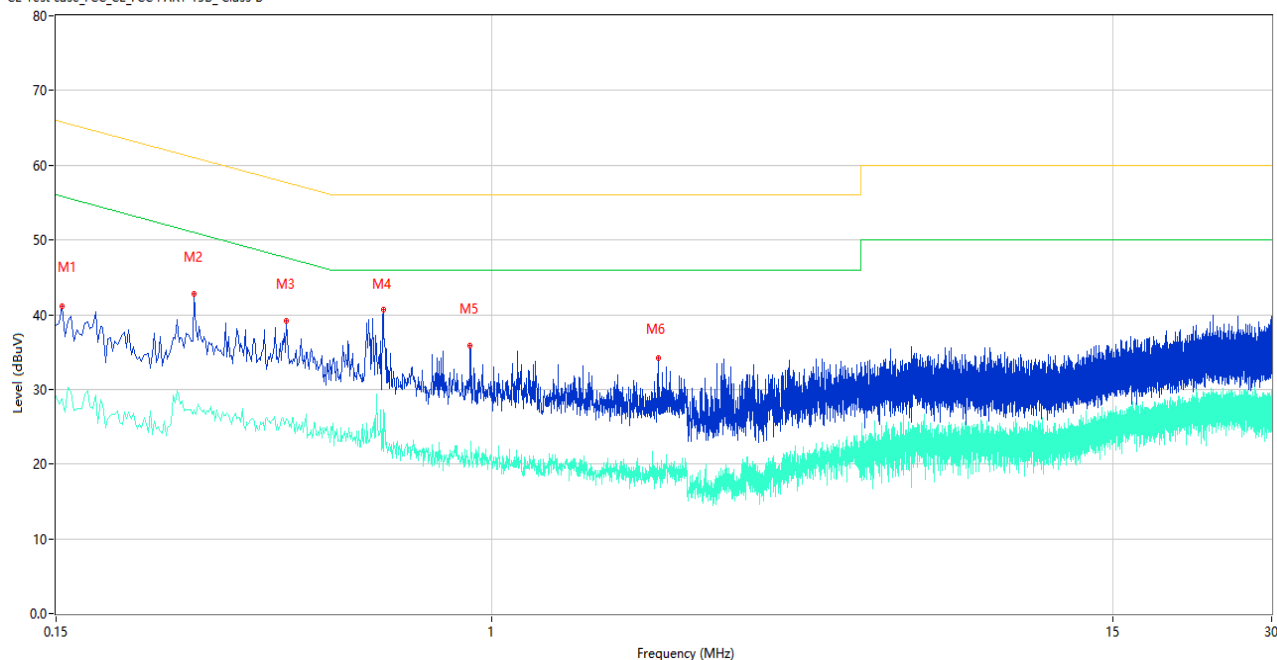
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1721.900	40.15	-15.70	74.0	33.85	Peak	262.00	100	Vertical	Pass
1**	1721.900	30.73	-15.70	54.0	23.27	AV	262.00	100	Vertical	Pass
2	3178.000	49.32	-3.64	74.0	24.68	Peak	0.00	100	Vertical	Pass
2**	3178.000	38.48	-3.64	54.0	15.52	AV	0.00	100	Vertical	Pass
3	5756.250	55.96	3.33	74.0	18.04	Peak	360.00	100	Vertical	Pass
3**	5756.250	46.88	3.33	54.0	7.12	AV	360.00	100	Vertical	Pass
4	6870.000	55.93	1.82	74.0	18.07	Peak	260.00	100	Vertical	Pass
4**	6870.000	46.13	1.82	54.0	7.87	AV	260.00	100	Vertical	Pass
5	12005.500	55.16	2.47	74.0	18.84	Peak	206.00	100	Vertical	Pass
5**	12005.500	45.72	2.47	54.0	8.28	AV	206.00	100	Vertical	Pass
6	13823.000	55.96	5.52	74.0	18.04	Peak	12.00	100	Vertical	Pass
6**	13823.000	46.72	5.52	54.0	7.28	AV	12.00	100	Vertical	Pass

A.9 AC Power-line Conducted Emissions

Note: Only the worst test results were recorded in this report.

L Phase

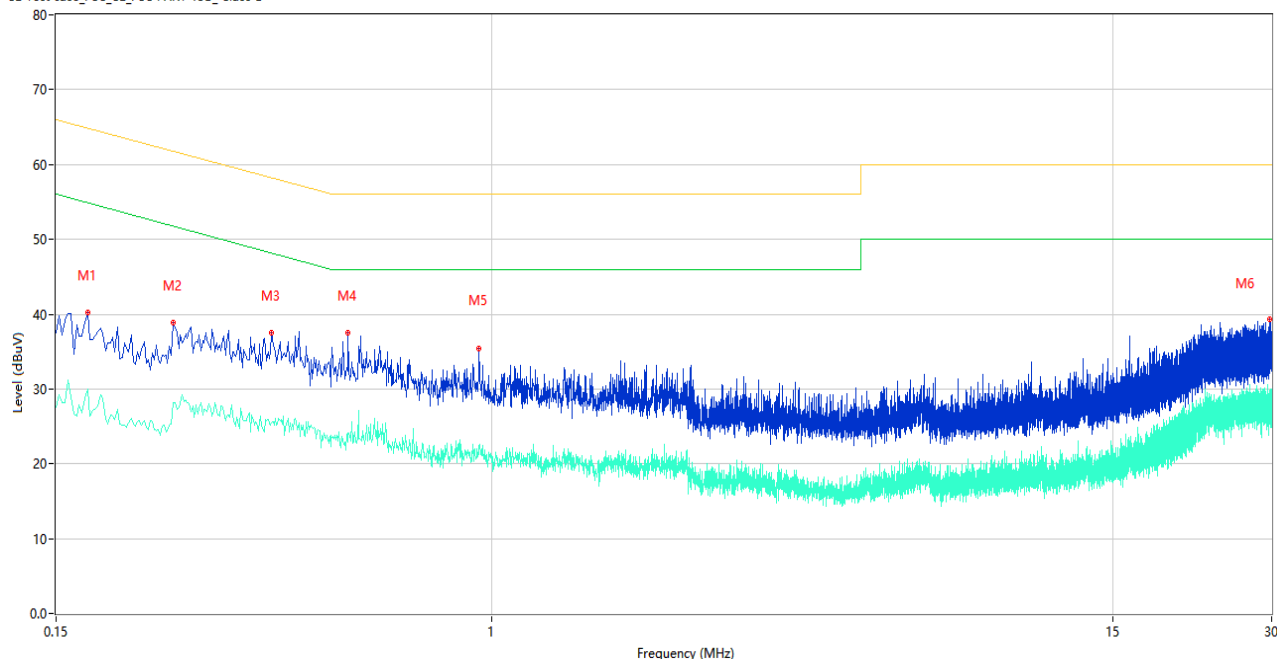
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Line	Verdict
1	0.154	41.19	10.12	65.78	24.59	Peak	L	Pass
1**	0.154	28.81	10.12	55.78	26.97	AV	L	Pass
2	0.274	42.80	10.08	61.00	18.20	Peak	L	Pass
2**	0.274	27.29	10.08	51.00	23.71	AV	L	Pass
3	0.410	39.13	10.67	57.65	18.52	Peak	L	Pass
3**	0.410	26.11	10.67	47.65	21.54	AV	L	Pass
4	0.624	40.72	10.53	56.00	15.28	Peak	L	Pass
4**	0.624	27.28	10.53	46.00	18.72	AV	L	Pass
5	0.912	35.79	10.32	56.00	20.21	Peak	L	Pass
5**	0.912	20.33	10.32	46.00	25.67	AV	L	Pass
6	2.074	34.25	10.51	56.00	21.75	Peak	L	Pass
6**	2.074	19.12	10.51	46.00	26.88	AV	L	Pass

N Phase

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Line	Verdict
1	0.172	40.17	10.09	64.86	24.69	Peak	N	Pass
1**	0.172	30.02	10.09	54.86	24.84	AV	N	Pass
2	0.250	38.80	10.07	61.76	22.96	Peak	N	Pass
2**	0.250	28.12	10.07	51.76	23.64	AV	N	Pass
3	0.384	37.47	10.46	58.19	20.72	Peak	N	Pass
3**	0.384	25.49	10.46	48.19	22.70	AV	N	Pass
4	0.536	37.45	10.47	56.00	18.55	Peak	N	Pass
4**	0.536	24.08	10.47	46.00	21.92	AV	N	Pass
5	0.948	35.42	11.03	56.00	20.58	Peak	N	Pass
5**	0.948	22.42	11.03	46.00	23.58	AV	N	Pass
6	29.724	39.35	14.36	60.00	20.65	Peak	N	Pass
6**	29.724	28.11	14.36	50.00	21.89	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “BL-SZ2480881-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “BL-SZ2480881-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “BL-SZ2480881-AI.PDF”.

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