

TEST REPORT

Applicant: Queclink Wireless Solutions Co., Ltd.
Address: No.30, Lane 500, Xinlong Road, Minhang District,
Shanghai, China 201101
Equipment Type: GNSS Tracker
Model Name: GV57CG
Brand Name: Queclink
FCC ID: YQD-GV57CG
Test Standard: 47 CFR Part 2
(Others refer to chapter 3.1)
Sample Arrival Date: Jun. 30, 2023
Test Date: Jun. 30, 2023 - Jul. 05, 2023
Date of Issue: Jul. 13, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Jiamin Lu**Checked by:** Wu Huihui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 13, 2023</u>	<u>Initial Issue</u>

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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 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	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, China 201101

2.2 Manufacturer Information

Manufacturer	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, China 201101

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	GNSS Tracker
Model Name Under Test	GV57CG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.02
Software Version	GV57CGR01A01V23M128
Dimensions (Approx.)	84.0 mm(L) × 50.0 mm(W) × 16.6 mm(H)
Weight (Approx.)	76.0 g

2.5 Technical Information

All Network and Wireless connectivity for EUT	2G Network GPRS/EDGE 850/900/1800/1900 MHz 4G Network LTE FDD Band 1/2/3/4/5/7/8/20/28 GPS, BeiDou
About the Product	The equipment is LTE Cat 1/2G compact GNSS tracker, intended for used with information technology equipment.

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

Operating Bands			GPRS/EGPRS 850/ 1900 MHz FDD LTE Band 2/ 4/ 5/ 7	
Modulation Type			GPRS	GMSK
			EGPRS	8PSK
			LTE	QPSK
				16QAM
Multislot Class			GPRS/EGPRS: 12	
Antenna Type			PIFA Antenna	
Antenna Gain			GPRS/EGPRS 850: -0.57 dBi GPRS/EGPRS 1900: -2.16 dBi FDD LTE Band 2: -2.16 dBi FDD LTE Band 4: 1.50 dBi FDD LTE Band 5: -0.57 dBi FDD LTE Band 7: -0.54 dBi	
The Max RF Output Power (EIRP/ERP)			GPRS/EGPRS 850: 30.38 dBm GPRS/EGPRS 1900: 30.35 dBm FDD LTE Band 2: 23.53 dBm FDD LTE Band 4: 26.33 dBm FDD LTE Band 5: 21.76 dBm FDD LTE Band 7: 23.16 dBm	
Band	Power Class		Tx Frequency Range	Rx Frequency Range
	GMSK	GMSK		
GSM850	4	E2	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
GSM1900	1	E2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
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 B7	3		2500 MHz ~ 2570 MHz	2620 MHz ~ 2690 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.

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	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046 24.232(d) 27.50(d)	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	ANNEX A.7	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)	12 V _{DC}
	LV (Low Voltage)	9 V _{DC}
	HV (High Voltage)	90 V _{DC}
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+70 °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	2.1.1.496	N/A	N/A
Analog Signal Generator	R&S	SMB100A	182396	3.20.390.24	2022.09.06	2023.09.05
Temperature Chamber	AHK	SP20	1412	N/A	2022.09.20	2023.09.19
Wideband Radio Communication Tester	R&S	CMW 500	171112	V4.0.60	2023.05.04	2024.05.03
Spectrum Analyzer	keysight	N9020A	MY50531628	A.16.09	2023.05.12	2024.05.11
DC Power Supply	ITECH	IT6863A	80001402075 7120005	N/A	2022.09.09	2023.09.08
DC Power Supply	EA	EA-PSB-91500-30 3U	2141190002	N/A	2023.05.05	2024.05.04
Radiated Test System						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V19.918	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	102318	V3.2.71	2023.05.16	2024.05.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2021.08.20	2024.08.19
Test Antenna-Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	9120D-1917	N/A	2022.06.09	2025.06.08
Anechoic Chamber	YIHENG	9m*6m*6m	#3	N/A	2022.02.09	2024.09.03
EMI Receiver	Keysight	N9038A	MY53220118	A.14.16	2022.09.08	2023.09.07

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Effective (Isotropic) Radiated Power	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
Occupied Bandwidth	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
Frequency Stability	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
Spurious Emission at Antenna Terminals	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
Band Edge	GPRS 850	v	--	v
	GPRS 1900	v	--	v
	EGPRS 850	v	--	v
	EGPRS 1900	v	--	v
Field Strength of Spurious Radiation	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
Note 1: The mark “v” means that this configuration is chosen for testing.				

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GPRS/EGPRS 850	Low Channel	128	824.2
	Middle Channel	190	836.6
	High Channel	251	848.8
GPRS/EGPRS 1900	Low Channel	512	1850.2
	Middle Channel	661	1880.0
	High Channel	810	1909.8

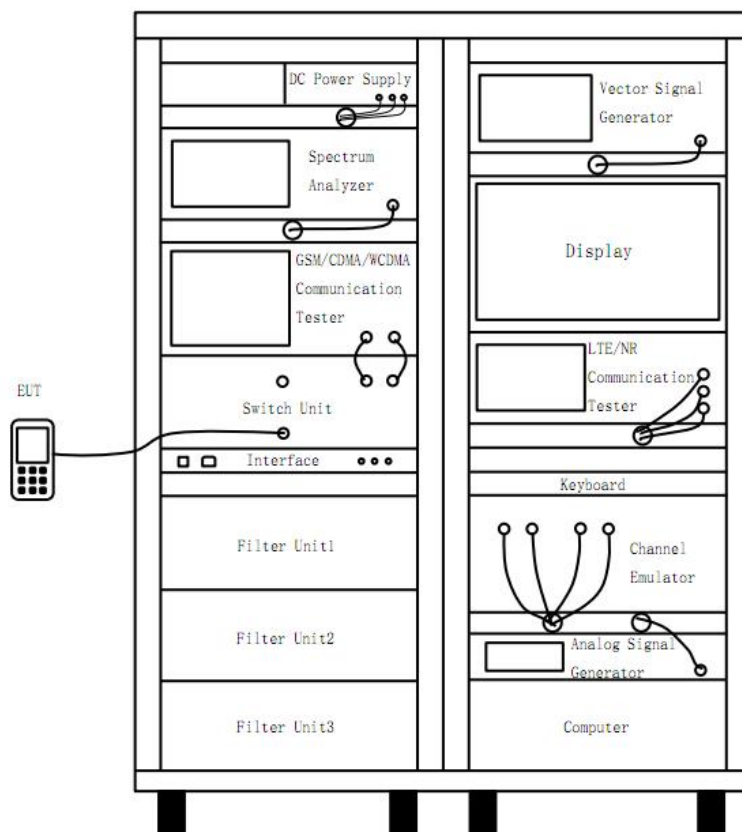
LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
Effective (Isotropic) Radiated Power														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to 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
7	n	n	--	--	--	v	v	v	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
7	n	n	v	v	v	v	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	--
7	n	n	v	--	--	--	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
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
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
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
2	v	v	v	v	v	v	v	--	v	--	--	--	v	--
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
Note 1: The mark “v” means that this configuration is chosen for testing.														
Note 2: The mark “n” means that this bandwidth is not supported.														

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 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 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560

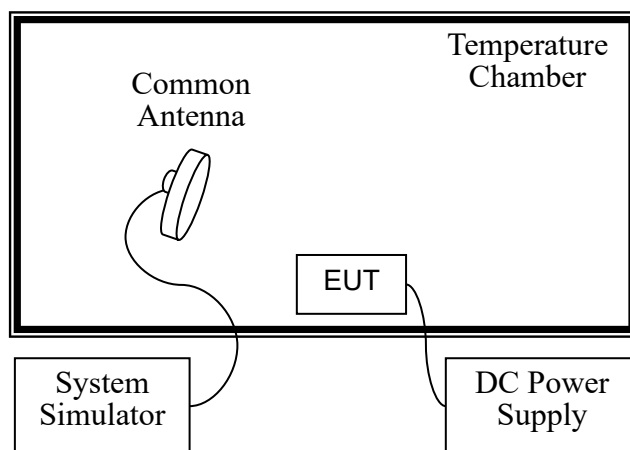
4.4 Test Setup

4.4.1 For Antenna Port Test



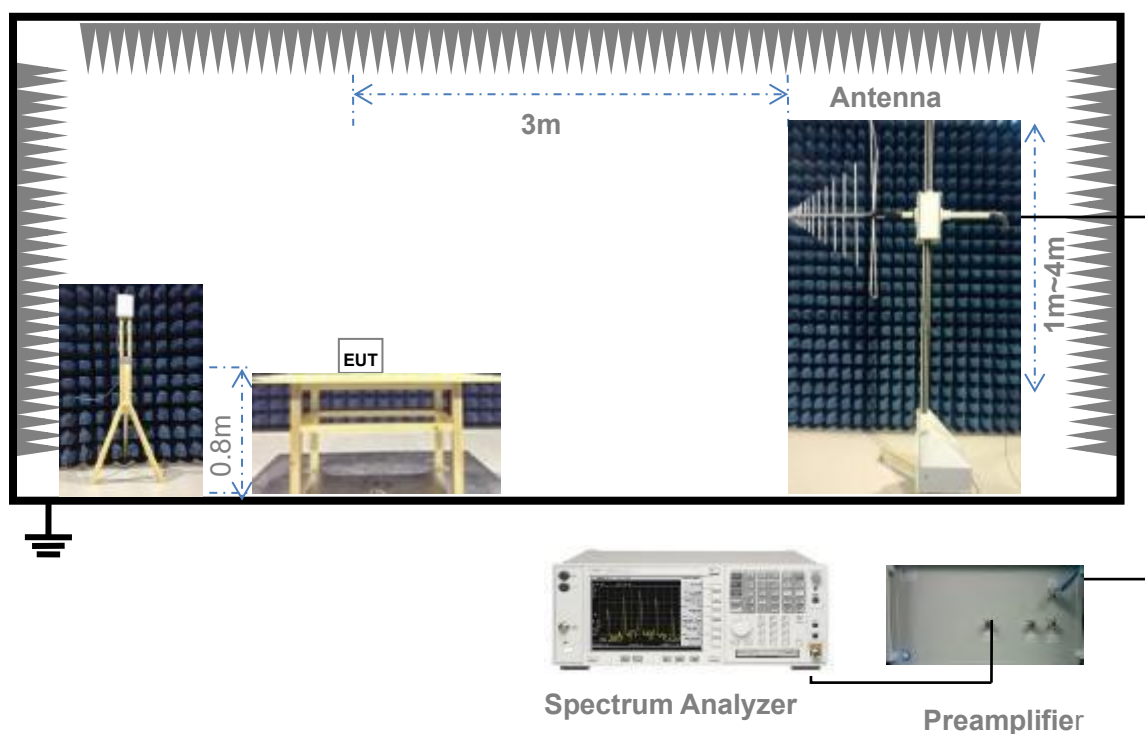
(Diagram 1)

4.4.2 For Frequency Stability Test



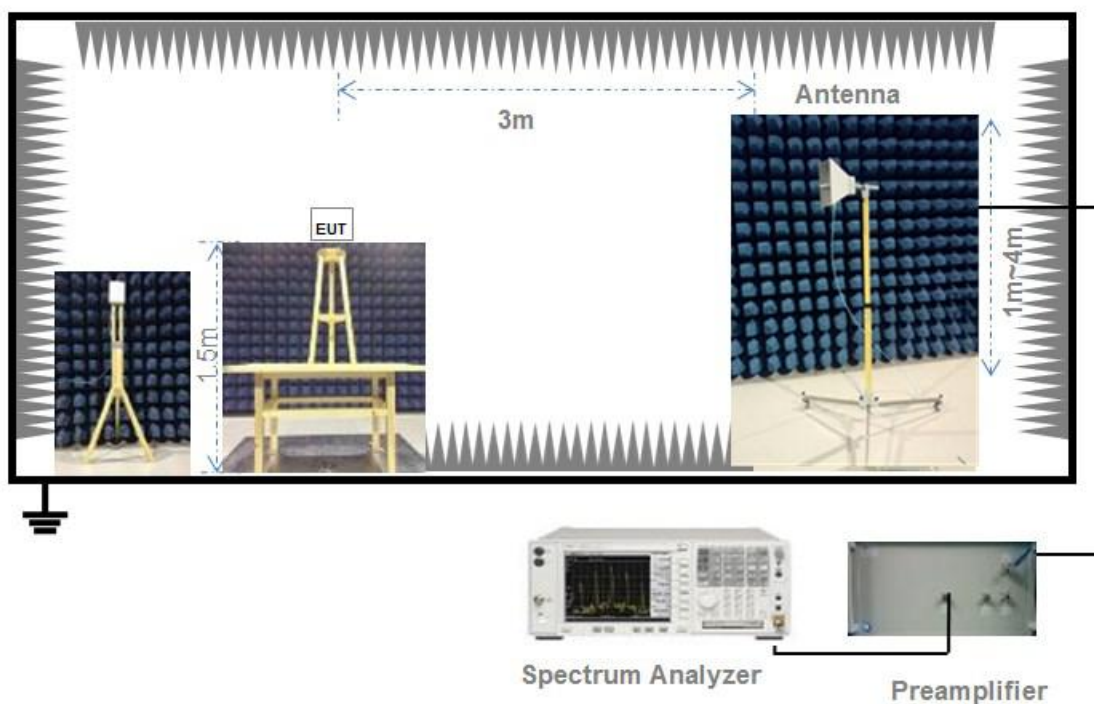
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

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

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

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 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.

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

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

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

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

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is

recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

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

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

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

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

FCC § 2.1055

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

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

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

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

FCC § 22.355

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

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

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

FCC § 24.235

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

FCC § 27.54

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(m)

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

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(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.

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. Base Station 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(m)

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

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(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.

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. Base Station 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 § 2.1053 & 22.917(a) & 24.238(a) & 27.53(m)

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(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.

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 receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

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.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

GPRS and EGPRS Mode Test Data

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
GPRS 850	LCH	33.10	-0.57	-2.72	30.38	1.091	7.00	Pass
	MCH	33.03	-0.57	-2.72	30.31	1.074	7.00	Pass
	HCH	33.00	-0.57	-2.72	30.28	1.067	7.00	Pass
EGPRS 850	LCH	26.46	-0.57	-2.72	23.74	0.237	7.00	Pass
	MCH	27.06	-0.57	-2.72	24.34	0.272	7.00	Pass
	HCH	26.65	-0.57	-2.72	23.93	0.247	7.00	Pass

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
GPRS 1900	LCH	32.51	-2.16	30.35	1.084	2.00	Pass
	MCH	31.77	-2.16	29.61	0.914	2.00	Pass
	HCH	30.78	-2.16	28.62	0.728	2.00	Pass
EGPRS 1900	LCH	29.25	-2.16	27.09	0.512	2.00	Pass
	MCH	28.72	-2.16	26.56	0.453	2.00	Pass
	HCH	27.96	-2.16	25.80	0.380	2.00	Pass

Note 1: For the GPRS and EGPRS mode, all slots were tested and just the worst data were recorded in this table.

Note 2: $ERP/EIRP = P_{Meas} + GT - LC$

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.

Note 3: Set PCL to 5 for GPRS 850 (power class 4) and 0 for GPRS 1900 (power class 1).

Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

GPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		1 Slot (dBm)	1 Slot (W)	2 Slots (dBm)	2 Slots (W)	3 Slots (dBm)	3 Slots (W)	4 Slots (dBm)	4 Slots (W)
GPRS 850	LCH	33.10	2.042	33.09	2.037	31.59	1.442	30.08	1.019
	MCH	33.03	2.009	33.02	2.004	31.70	1.479	30.17	1.040
	HCH	33.00	1.995	32.95	1.972	31.59	1.442	30.06	1.014
GPRS 1900	LCH	32.51	1.782	32.47	1.766	31.69	1.476	30.00	1.000
	MCH	31.77	1.503	31.69	1.476	30.89	1.227	29.16	0.824
	HCH	30.78	1.197	30.68	1.169	29.83	0.962	28.09	0.644

EGPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		1 Slot (dBm)	1 Slot (W)	2 Slots (dBm)	2 Slots (W)	3 Slots (dBm)	3 Slots (W)	4 Slots (dBm)	4 Slots (W)
EGPRS 850	LCH	26.46	0.443	24.76	0.299	22.68	0.185	19.99	0.100
	MCH	27.06	0.508	25.15	0.327	22.86	0.193	20.89	0.123
	HCH	26.65	0.462	24.80	0.302	22.60	0.182	20.39	0.109
EGPRS 1900	LCH	29.25	0.841	27.93	0.621	25.96	0.394	23.58	0.228
	MCH	28.72	0.745	27.43	0.553	25.29	0.338	22.55	0.180
	HCH	27.96	0.625	26.49	0.446	24.64	0.291	22.30	0.170

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	24.43	-2.16	22.27	0.169	2.00	Pass
			RB1#3	24.38	-2.16	22.22	0.167	2.00	Pass
			RB1#5	24.38	-2.16	22.22	0.167	2.00	Pass
			RB3#0	24.29	-2.16	22.13	0.163	2.00	Pass
			RB3#2	24.39	-2.16	22.23	0.167	2.00	Pass
			RB3#3	24.42	-2.16	22.26	0.168	2.00	Pass
			RB6#0	23.51	-2.16	21.35	0.136	2.00	Pass
		16-QAM	RB1#0	23.57	-2.16	21.41	0.138	2.00	Pass
			RB1#3	23.71	-2.16	21.55	0.143	2.00	Pass
			RB1#5	23.75	-2.16	21.59	0.144	2.00	Pass
			RB3#0	23.62	-2.16	21.46	0.140	2.00	Pass
			RB3#2	23.65	-2.16	21.49	0.141	2.00	Pass
			RB3#3	23.71	-2.16	21.55	0.143	2.00	Pass
			RB6#0	22.86	-2.16	20.70	0.117	2.00	Pass
	MCH	QPSK	RB1#0	24.35	-2.16	22.19	0.166	2.00	Pass
			RB1#3	24.27	-2.16	22.11	0.163	2.00	Pass
			RB1#5	24.27	-2.16	22.11	0.163	2.00	Pass
			RB3#0	24.28	-2.16	22.12	0.163	2.00	Pass
			RB3#2	24.26	-2.16	22.10	0.162	2.00	Pass
			RB3#3	24.30	-2.16	22.14	0.164	2.00	Pass
			RB6#0	23.27	-2.16	21.11	0.129	2.00	Pass
		16-QAM	RB1#0	23.80	-2.16	21.64	0.146	2.00	Pass
			RB1#3	23.72	-2.16	21.56	0.143	2.00	Pass
			RB1#5	23.75	-2.16	21.59	0.144	2.00	Pass
			RB3#0	23.67	-2.16	21.51	0.142	2.00	Pass
			RB3#2	23.58	-2.16	21.42	0.139	2.00	Pass
			RB3#3	23.67	-2.16	21.51	0.142	2.00	Pass
			RB6#0	22.41	-2.16	20.25	0.106	2.00	Pass
	HCH	QPSK	RB1#0	23.26	-2.16	21.10	0.129	2.00	Pass
			RB1#3	23.13	-2.16	20.97	0.125	2.00	Pass
			RB1#5	23.04	-2.16	20.88	0.122	2.00	Pass
			RB3#0	23.16	-2.16	21.00	0.126	2.00	Pass
			RB3#2	23.10	-2.16	20.94	0.124	2.00	Pass
			RB3#3	23.08	-2.16	20.92	0.124	2.00	Pass
			RB6#0	22.16	-2.16	20.00	0.100	2.00	Pass
		16-QAM	RB1#0	22.30	-2.16	20.14	0.103	2.00	Pass
			RB1#3	22.19	-2.16	20.03	0.101	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									
3 MHz			RB1#5	22.18	-2.16	20.02	0.100	2.00	Pass
			RB3#0	22.40	-2.16	20.24	0.106	2.00	Pass
			RB3#2	22.41	-2.16	20.25	0.106	2.00	Pass
			RB3#3	22.31	-2.16	20.15	0.104	2.00	Pass
			RB6#0	21.41	-2.16	19.25	0.084	2.00	Pass
	LCH	QPSK	RB1#0	25.23	-2.16	23.07	0.203	2.00	Pass
			RB1#7	25.28	-2.16	23.12	0.205	2.00	Pass
			RB1#14	25.17	-2.16	23.01	0.200	2.00	Pass
			RB8#0	24.15	-2.16	21.99	0.158	2.00	Pass
			RB8#4	24.26	-2.16	22.10	0.162	2.00	Pass
			RB8#7	24.23	-2.16	22.07	0.161	2.00	Pass
			RB15#0	24.19	-2.16	22.03	0.160	2.00	Pass
		16-QAM	RB1#0	24.00	-2.16	21.84	0.153	2.00	Pass
			RB1#7	24.14	-2.16	21.98	0.158	2.00	Pass
			RB1#14	24.14	-2.16	21.98	0.158	2.00	Pass
			RB8#0	23.32	-2.16	21.16	0.131	2.00	Pass
			RB8#4	23.39	-2.16	21.23	0.133	2.00	Pass
			RB8#7	23.37	-2.16	21.21	0.132	2.00	Pass
			RB15#0	23.28	-2.16	21.12	0.129	2.00	Pass
	MCH	QPSK	RB1#0	24.77	-2.16	22.61	0.182	2.00	Pass
			RB1#7	24.67	-2.16	22.51	0.178	2.00	Pass
			RB1#14	24.49	-2.16	22.33	0.171	2.00	Pass
			RB8#0	23.69	-2.16	21.53	0.142	2.00	Pass
			RB8#4	23.64	-2.16	21.48	0.141	2.00	Pass
			RB8#7	23.60	-2.16	21.44	0.139	2.00	Pass
			RB15#0	23.62	-2.16	21.46	0.140	2.00	Pass
		16-QAM	RB1#0	24.14	-2.16	21.98	0.158	2.00	Pass
			RB1#7	24.02	-2.16	21.86	0.153	2.00	Pass
			RB1#14	23.86	-2.16	21.70	0.148	2.00	Pass
			RB8#0	22.80	-2.16	20.64	0.116	2.00	Pass
			RB8#4	22.78	-2.16	20.62	0.115	2.00	Pass
			RB8#7	22.71	-2.16	20.55	0.114	2.00	Pass
			RB15#0	22.69	-2.16	20.53	0.113	2.00	Pass
	HCH	QPSK	RB1#0	23.35	-2.16	21.19	0.132	2.00	Pass
			RB1#7	23.26	-2.16	21.10	0.129	2.00	Pass
			RB1#14	22.98	-2.16	20.82	0.121	2.00	Pass
			RB8#0	22.25	-2.16	20.09	0.102	2.00	Pass
			RB8#4	22.28	-2.16	20.12	0.103	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									
			RB8#7	22.14	-2.16	19.98	0.100	2.00	Pass
			RB15#0	22.21	-2.16	20.05	0.101	2.00	Pass
		16-QAM	RB1#0	22.43	-2.16	20.27	0.106	2.00	Pass
			RB1#7	22.24	-2.16	20.08	0.102	2.00	Pass
			RB1#14	22.02	-2.16	19.86	0.097	2.00	Pass
			RB8#0	21.35	-2.16	19.19	0.083	2.00	Pass
			RB8#4	21.37	-2.16	19.21	0.083	2.00	Pass
			RB8#7	21.32	-2.16	19.16	0.082	2.00	Pass
			RB15#0	21.28	-2.16	19.12	0.082	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	25.50	-2.16	23.34	0.216	2.00	Pass
			RB1#13	25.44	-2.16	23.28	0.213	2.00	Pass
			RB1#24	25.35	-2.16	23.19	0.208	2.00	Pass
			RB12#0	24.21	-2.16	22.05	0.160	2.00	Pass
			RB12#6	24.30	-2.16	22.14	0.164	2.00	Pass
			RB12#13	24.25	-2.16	22.09	0.162	2.00	Pass
			RB25#0	24.26	-2.16	22.10	0.162	2.00	Pass
		16-QAM	RB1#0	24.44	-2.16	22.28	0.169	2.00	Pass
			RB1#13	24.51	-2.16	22.35	0.172	2.00	Pass
			RB1#24	24.46	-2.16	22.30	0.170	2.00	Pass
			RB12#0	23.31	-2.16	21.15	0.130	2.00	Pass
			RB12#6	23.42	-2.16	21.26	0.134	2.00	Pass
			RB12#13	23.37	-2.16	21.21	0.132	2.00	Pass
			RB25#0	23.29	-2.16	21.13	0.130	2.00	Pass
	MCH	QPSK	RB1#0	25.08	-2.16	22.92	0.196	2.00	Pass
			RB1#13	24.71	-2.16	22.55	0.180	2.00	Pass
			RB1#24	24.53	-2.16	22.37	0.173	2.00	Pass
			RB12#0	23.60	-2.16	21.44	0.139	2.00	Pass
			RB12#6	23.58	-2.16	21.42	0.139	2.00	Pass
			RB12#13	23.45	-2.16	21.29	0.135	2.00	Pass
			RB25#0	23.52	-2.16	21.36	0.137	2.00	Pass
		16-QAM	RB1#0	24.35	-2.16	22.19	0.166	2.00	Pass
			RB1#13	24.09	-2.16	21.93	0.156	2.00	Pass
			RB1#24	23.97	-2.16	21.81	0.152	2.00	Pass
			RB12#0	22.77	-2.16	20.61	0.115	2.00	Pass
			RB12#6	22.76	-2.16	20.60	0.115	2.00	Pass
			RB12#13	22.63	-2.16	20.47	0.111	2.00	Pass
			RB25#0	22.64	-2.16	20.48	0.112	2.00	Pass
	HCH	QPSK	RB1#0	23.80	-2.16	21.64	0.146	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#13	23.24	-2.16	21.08	0.128	2.00	Pass
			RB1#24	22.99	-2.16	20.83	0.121	2.00	Pass
			RB12#0	22.43	-2.16	20.27	0.106	2.00	Pass
			RB12#6	22.20	-2.16	20.04	0.101	2.00	Pass
			RB12#13	22.00	-2.16	19.84	0.096	2.00	Pass
			RB25#0	22.11	-2.16	19.95	0.099	2.00	Pass
		16-QAM	RB1#0	22.83	-2.16	20.67	0.117	2.00	Pass
			RB1#13	22.32	-2.16	20.16	0.104	2.00	Pass
			RB1#24	22.15	-2.16	19.99	0.100	2.00	Pass
			RB12#0	21.50	-2.16	19.34	0.086	2.00	Pass
			RB12#6	21.30	-2.16	19.14	0.082	2.00	Pass
			RB12#13	21.22	-2.16	19.06	0.081	2.00	Pass
			RB25#0	21.13	-2.16	18.97	0.079	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	25.26	-2.16	23.10	0.204	2.00	Pass
			RB1#25	25.19	-2.16	23.03	0.201	2.00	Pass
			RB1#49	25.46	-2.16	23.30	0.214	2.00	Pass
			RB25#0	23.97	-2.16	21.81	0.152	2.00	Pass
			RB25#13	24.15	-2.16	21.99	0.158	2.00	Pass
			RB25#25	24.13	-2.16	21.97	0.157	2.00	Pass
			RB50#0	24.05	-2.16	21.89	0.155	2.00	Pass
		16-QAM	RB1#0	24.08	-2.16	21.92	0.156	2.00	Pass
			RB1#25	24.09	-2.16	21.93	0.156	2.00	Pass
			RB1#49	24.41	-2.16	22.25	0.168	2.00	Pass
	MCH	QPSK	RB1#0	25.11	-2.16	22.95	0.197	2.00	Pass
			RB1#25	24.53	-2.16	22.37	0.173	2.00	Pass
			RB1#49	24.11	-2.16	21.95	0.157	2.00	Pass
			RB25#0	23.52	-2.16	21.36	0.137	2.00	Pass
			RB25#13	23.46	-2.16	21.30	0.135	2.00	Pass
			RB25#25	23.16	-2.16	21.00	0.126	2.00	Pass
			RB50#0	23.31	-2.16	21.15	0.130	2.00	Pass
		16-QAM	RB1#0	24.36	-2.16	22.20	0.166	2.00	Pass
			RB1#25	23.86	-2.16	21.70	0.148	2.00	Pass
			RB1#49	23.42	-2.16	21.26	0.134	2.00	Pass
	HCH	QPSK	RB1#0	23.96	-2.16	21.80	0.151	2.00	Pass
			RB1#25	23.67	-2.16	21.51	0.142	2.00	Pass
			RB1#49	22.90	-2.16	20.74	0.119	2.00	Pass
			RB25#0	22.68	-2.16	20.52	0.113	2.00	Pass
			RB25#13	22.60	-2.16	20.44	0.111	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											
		16-QAM	RB25#25	22.01	-2.16	19.85	0.097	2.00	Pass		
			RB50#0	22.33	-2.16	20.17	0.104	2.00	Pass		
			RB1#0	22.85	-2.16	20.69	0.117	2.00	Pass		
			RB1#25	22.72	-2.16	20.56	0.114	2.00	Pass		
			RB1#49	22.00	-2.16	19.84	0.096	2.00	Pass		
15 MHz	LCH	QPSK	RB1#0	25.20	-2.16	23.04	0.201	2.00	Pass		
			RB1#38	25.33	-2.16	23.17	0.207	2.00	Pass		
			RB1#74	25.69	-2.16	23.53	0.225	2.00	Pass		
			RB36#0	24.02	-2.16	21.86	0.153	2.00	Pass		
			RB36#19	24.23	-2.16	22.07	0.161	2.00	Pass		
			RB36#39	24.38	-2.16	22.22	0.167	2.00	Pass		
			RB75#0	24.98	-2.16	22.82	0.191	2.00	Pass		
		16-QAM	RB1#0	23.96	-2.16	21.80	0.151	2.00	Pass		
			RB1#38	24.14	-2.16	21.98	0.158	2.00	Pass		
			RB1#74	24.56	-2.16	22.40	0.174	2.00	Pass		
		MCH	QPSK	RB1#0	25.19	-2.16	23.03	0.201	2.00	Pass	
				RB1#38	24.50	-2.16	22.34	0.171	2.00	Pass	
	RB1#74			23.88	-2.16	21.72	0.149	2.00	Pass		
	RB36#0			23.67	-2.16	21.51	0.142	2.00	Pass		
	RB36#19			23.47	-2.16	21.31	0.135	2.00	Pass		
	RB36#39			23.07	-2.16	20.91	0.123	2.00	Pass		
	RB75#0			24.38	-2.16	22.22	0.167	2.00	Pass		
	16-QAM		RB1#0	24.37	-2.16	22.21	0.166	2.00	Pass		
			RB1#38	23.84	-2.16	21.68	0.147	2.00	Pass		
			RB1#74	23.16	-2.16	21.00	0.126	2.00	Pass		
	HCH		QPSK	RB1#0	23.41	-2.16	21.25	0.133	2.00	Pass	
				RB1#38	23.88	-2.16	21.72	0.149	2.00	Pass	
		RB1#74		22.91	-2.16	20.75	0.119	2.00	Pass		
		RB36#0		22.59	-2.16	20.43	0.110	2.00	Pass		
		RB36#19		22.82	-2.16	20.66	0.116	2.00	Pass		
		RB36#39		22.32	-2.16	20.16	0.104	2.00	Pass		
		RB75#0		22.84	-2.16	20.68	0.117	2.00	Pass		
		16-QAM	RB1#0	22.72	-2.16	20.56	0.114	2.00	Pass		
			RB1#38	23.30	-2.16	21.14	0.130	2.00	Pass		
			RB1#74	22.40	-2.16	20.24	0.106	2.00	Pass		
		20 MHz	LCH	QPSK	RB1#0	25.03	-2.16	22.87	0.194	2.00	Pass
					RB1#50	25.39	-2.16	23.23	0.210	2.00	Pass
	RB1#99				25.48	-2.16	23.32	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									
			RB50#0	23.90	-2.16	21.74	0.149	2.00	Pass
			RB50#25	24.27	-2.16	22.11	0.163	2.00	Pass
			RB50#50	24.31	-2.16	22.15	0.164	2.00	Pass
			RB100#0	24.53	-2.16	22.37	0.173	2.00	Pass
		16-QAM	RB1#0	24.36	-2.16	22.20	0.166	2.00	Pass
			RB1#50	24.77	-2.16	22.61	0.182	2.00	Pass
			RB1#99	24.87	-2.16	22.71	0.187	2.00	Pass
		MCH	RB1#0	25.09	-2.16	22.93	0.196	2.00	Pass
			RB1#50	24.52	-2.16	22.36	0.172	2.00	Pass
			RB1#99	23.56	-2.16	21.40	0.138	2.00	Pass
			RB50#0	23.59	-2.16	21.43	0.139	2.00	Pass
			RB50#25	23.33	-2.16	21.17	0.131	2.00	Pass
			RB50#50	22.86	-2.16	20.70	0.117	2.00	Pass
			RB100#0	24.16	-2.16	22.00	0.158	2.00	Pass
		16-QAM	RB1#0	24.39	-2.16	22.23	0.167	2.00	Pass
			RB1#50	23.87	-2.16	21.71	0.148	2.00	Pass
			RB1#99	22.99	-2.16	20.83	0.121	2.00	Pass
	HCH	QPSK	RB1#0	23.03	-2.16	20.87	0.122	2.00	Pass
			RB1#50	23.78	-2.16	21.62	0.145	2.00	Pass
			RB1#99	22.81	-2.16	20.65	0.116	2.00	Pass
			RB50#0	22.26	-2.16	20.10	0.102	2.00	Pass
			RB50#25	22.65	-2.16	20.49	0.112	2.00	Pass
			RB50#50	22.38	-2.16	20.22	0.105	2.00	Pass
			RB100#0	22.68	-2.16	20.52	0.113	2.00	Pass
		16-QAM	RB1#0	22.32	-2.16	20.16	0.104	2.00	Pass
			RB1#50	23.12	-2.16	20.96	0.125	2.00	Pass
			RB1#99	22.25	-2.16	20.09	0.102	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	24.19	1.50	25.69	0.371	1.00	Pass
			RB1#3	24.14	1.50	25.64	0.366	1.00	Pass
			RB1#5	24.14	1.50	25.64	0.366	1.00	Pass
			RB3#0	24.10	1.50	25.60	0.363	1.00	Pass
			RB3#2	24.13	1.50	25.63	0.366	1.00	Pass
			RB3#3	24.08	1.50	25.58	0.361	1.00	Pass
			RB6#0	23.03	1.50	24.53	0.284	1.00	Pass
		16-QAM	RB1#0	23.13	1.50	24.63	0.290	1.00	Pass
			RB1#3	23.16	1.50	24.66	0.292	1.00	Pass
			RB1#5	23.09	1.50	24.59	0.288	1.00	Pass
			RB3#0	23.05	1.50	24.55	0.285	1.00	Pass
			RB3#2	23.09	1.50	24.59	0.288	1.00	Pass
			RB3#3	23.12	1.50	24.62	0.290	1.00	Pass
			RB6#0	22.05	1.50	23.55	0.226	1.00	Pass
	MCH	QPSK	RB1#0	24.70	1.50	26.20	0.417	1.00	Pass
			RB1#3	24.62	1.50	26.12	0.409	1.00	Pass
			RB1#5	24.61	1.50	26.11	0.408	1.00	Pass
			RB3#0	24.60	1.50	26.10	0.407	1.00	Pass
			RB3#2	24.59	1.50	26.09	0.406	1.00	Pass
			RB3#3	24.56	1.50	26.06	0.404	1.00	Pass
			RB6#0	23.58	1.50	25.08	0.322	1.00	Pass
		16-QAM	RB1#0	23.86	1.50	25.36	0.344	1.00	Pass
			RB1#3	23.86	1.50	25.36	0.344	1.00	Pass
			RB1#5	23.85	1.50	25.35	0.343	1.00	Pass
			RB3#0	23.73	1.50	25.23	0.333	1.00	Pass
			RB3#2	23.69	1.50	25.19	0.330	1.00	Pass
			RB3#3	23.71	1.50	25.21	0.332	1.00	Pass
			RB6#0	22.48	1.50	23.98	0.250	1.00	Pass
	HCH	QPSK	RB1#0	24.77	1.50	26.27	0.424	1.00	Pass
			RB1#3	24.82	1.50	26.32	0.429	1.00	Pass
			RB1#5	24.77	1.50	26.27	0.424	1.00	Pass
			RB3#0	24.67	1.50	26.17	0.414	1.00	Pass
			RB3#2	24.77	1.50	26.27	0.424	1.00	Pass
			RB3#3	24.74	1.50	26.24	0.421	1.00	Pass
			RB6#0	23.68	1.50	25.18	0.330	1.00	Pass
		16-QAM	RB1#0	23.69	1.50	25.19	0.330	1.00	Pass
			RB1#3	23.74	1.50	25.24	0.334	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	LCH	QPSK	RB1#5	23.82	1.50	25.32	0.340	1.00	Pass
			RB3#0	23.82	1.50	25.32	0.340	1.00	Pass
			RB3#2	23.90	1.50	25.40	0.347	1.00	Pass
			RB3#3	23.87	1.50	25.37	0.344	1.00	Pass
			RB6#0	22.82	1.50	24.32	0.270	1.00	Pass
			RB1#0	24.08	1.50	25.58	0.361	1.00	Pass
			RB1#7	24.00	1.50	25.50	0.355	1.00	Pass
			RB1#14	23.81	1.50	25.31	0.340	1.00	Pass
		16-QAM	RB8#0	22.90	1.50	24.40	0.275	1.00	Pass
			RB8#4	22.91	1.50	24.41	0.276	1.00	Pass
			RB8#7	22.84	1.50	24.34	0.272	1.00	Pass
			RB15#0	22.87	1.50	24.37	0.274	1.00	Pass
			RB1#0	22.85	1.50	24.35	0.272	1.00	Pass
			RB1#7	22.85	1.50	24.35	0.272	1.00	Pass
			RB1#14	22.64	1.50	24.14	0.259	1.00	Pass
			RB8#0	21.95	1.50	23.45	0.221	1.00	Pass
	MCH	QPSK	RB8#4	21.89	1.50	23.39	0.218	1.00	Pass
			RB8#7	21.82	1.50	23.32	0.215	1.00	Pass
			RB15#0	21.78	1.50	23.28	0.213	1.00	Pass
			RB1#0	24.60	1.50	26.10	0.407	1.00	Pass
			RB1#7	24.57	1.50	26.07	0.405	1.00	Pass
			RB1#14	24.47	1.50	25.97	0.395	1.00	Pass
			RB8#0	23.59	1.50	25.09	0.323	1.00	Pass
		16-QAM	RB8#4	23.54	1.50	25.04	0.319	1.00	Pass
			RB8#7	23.55	1.50	25.05	0.320	1.00	Pass
			RB15#0	23.51	1.50	25.01	0.317	1.00	Pass
			RB1#0	23.77	1.50	25.27	0.337	1.00	Pass
			RB1#7	23.84	1.50	25.34	0.342	1.00	Pass
			RB1#14	23.73	1.50	25.23	0.333	1.00	Pass
			RB8#0	22.58	1.50	24.08	0.256	1.00	Pass
			RB8#4	22.61	1.50	24.11	0.258	1.00	Pass
	HCH	QPSK	RB8#7	22.59	1.50	24.09	0.256	1.00	Pass
			RB15#0	22.52	1.50	24.02	0.252	1.00	Pass
			RB1#0	24.54	1.50	26.04	0.402	1.00	Pass
			RB1#7	24.70	1.50	26.20	0.417	1.00	Pass
			RB1#14	24.71	1.50	26.21	0.418	1.00	Pass
		QPSK	RB8#0	23.54	1.50	25.04	0.319	1.00	Pass
			RB8#4	23.62	1.50	25.12	0.325	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									
		16-QAM	RB8#7	23.66	1.50	25.16	0.328	1.00	Pass
			RB15#0	23.59	1.50	25.09	0.323	1.00	Pass
			RB1#0	23.40	1.50	24.90	0.309	1.00	Pass
			RB1#7	23.59	1.50	25.09	0.323	1.00	Pass
			RB1#14	23.65	1.50	25.15	0.327	1.00	Pass
			RB8#0	22.48	1.50	23.98	0.250	1.00	Pass
			RB8#4	22.59	1.50	24.09	0.256	1.00	Pass
			RB8#7	22.66	1.50	24.16	0.261	1.00	Pass
			RB15#0	22.51	1.50	24.01	0.252	1.00	Pass
5 MHz	LCH	QPSK	RB1#0	24.35	1.50	25.85	0.385	1.00	Pass
			RB1#13	24.10	1.50	25.60	0.363	1.00	Pass
			RB1#24	23.95	1.50	25.45	0.351	1.00	Pass
			RB12#0	22.95	1.50	24.45	0.279	1.00	Pass
			RB12#6	22.88	1.50	24.38	0.274	1.00	Pass
			RB12#13	22.80	1.50	24.30	0.269	1.00	Pass
			RB25#0	22.79	1.50	24.29	0.269	1.00	Pass
		16-QAM	RB1#0	23.32	1.50	24.82	0.303	1.00	Pass
			RB1#13	23.05	1.50	24.55	0.285	1.00	Pass
			RB1#24	23.00	1.50	24.50	0.282	1.00	Pass
			RB12#0	21.86	1.50	23.36	0.217	1.00	Pass
			RB12#6	21.80	1.50	23.30	0.214	1.00	Pass
			RB12#13	21.74	1.50	23.24	0.211	1.00	Pass
			RB25#0	21.68	1.50	23.18	0.208	1.00	Pass
	MCH	QPSK	RB1#0	24.72	1.50	26.22	0.419	1.00	Pass
			RB1#13	24.62	1.50	26.12	0.409	1.00	Pass
			RB1#24	24.60	1.50	26.10	0.407	1.00	Pass
			RB12#0	23.53	1.50	25.03	0.318	1.00	Pass
			RB12#6	23.57	1.50	25.07	0.321	1.00	Pass
			RB12#13	23.48	1.50	24.98	0.315	1.00	Pass
			RB25#0	23.48	1.50	24.98	0.315	1.00	Pass
		16-QAM	RB1#0	24.06	1.50	25.56	0.360	1.00	Pass
			RB1#13	23.98	1.50	25.48	0.353	1.00	Pass
			RB1#24	23.96	1.50	25.46	0.352	1.00	Pass
			RB12#0	22.58	1.50	24.08	0.256	1.00	Pass
			RB12#6	22.67	1.50	24.17	0.261	1.00	Pass
			RB12#13	22.55	1.50	24.05	0.254	1.00	Pass
			RB25#0	22.54	1.50	24.04	0.254	1.00	Pass
	HCH	QPSK	RB1#0	24.31	1.50	25.81	0.381	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	24.59	1.50	26.09	0.406	1.00	Pass
			RB1#24	24.83	1.50	26.33	0.430	1.00	Pass
			RB12#0	23.19	1.50	24.69	0.294	1.00	Pass
			RB12#6	23.49	1.50	24.99	0.316	1.00	Pass
			RB12#13	23.55	1.50	25.05	0.320	1.00	Pass
			RB25#0	23.40	1.50	24.90	0.309	1.00	Pass
		16-QAM	RB1#0	23.27	1.50	24.77	0.300	1.00	Pass
			RB1#13	23.59	1.50	25.09	0.323	1.00	Pass
			RB1#24	23.89	1.50	25.39	0.346	1.00	Pass
			RB12#0	22.12	1.50	23.62	0.230	1.00	Pass
			RB12#6	22.45	1.50	23.95	0.248	1.00	Pass
			RB12#13	22.57	1.50	24.07	0.255	1.00	Pass
			RB25#0	22.29	1.50	23.79	0.239	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	24.30	1.50	25.80	0.380	1.00	Pass
			RB1#25	23.84	1.50	25.34	0.342	1.00	Pass
			RB1#49	24.13	1.50	25.63	0.366	1.00	Pass
			RB25#0	22.71	1.50	24.21	0.264	1.00	Pass
			RB25#13	22.65	1.50	24.15	0.260	1.00	Pass
			RB25#25	22.69	1.50	24.19	0.262	1.00	Pass
			RB50#0	22.52	1.50	24.02	0.252	1.00	Pass
		16-QAM	RB1#0	23.07	1.50	24.57	0.286	1.00	Pass
			RB1#25	22.67	1.50	24.17	0.261	1.00	Pass
			RB1#49	22.93	1.50	24.43	0.277	1.00	Pass
	MCH	QPSK	RB1#0	24.53	1.50	26.03	0.401	1.00	Pass
			RB1#25	24.54	1.50	26.04	0.402	1.00	Pass
			RB1#49	24.56	1.50	26.06	0.404	1.00	Pass
			RB25#0	23.44	1.50	24.94	0.312	1.00	Pass
			RB25#13	23.48	1.50	24.98	0.315	1.00	Pass
			RB25#25	23.37	1.50	24.87	0.307	1.00	Pass
			RB50#0	23.33	1.50	24.83	0.304	1.00	Pass
		16-QAM	RB1#0	23.74	1.50	25.24	0.334	1.00	Pass
			RB1#25	23.79	1.50	25.29	0.338	1.00	Pass
			RB1#49	23.82	1.50	25.32	0.340	1.00	Pass
	HCH	QPSK	RB1#0	24.42	1.50	25.92	0.391	1.00	Pass
			RB1#25	23.99	1.50	25.49	0.354	1.00	Pass
			RB1#49	24.71	1.50	26.21	0.418	1.00	Pass
			RB25#0	22.94	1.50	24.44	0.278	1.00	Pass
			RB25#13	22.85	1.50	24.35	0.272	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	LCH	16-QAM	RB25#25	23.12	1.50	24.62	0.290	1.00	Pass
			RB50#0	22.80	1.50	24.30	0.269	1.00	Pass
			RB1#0	23.29	1.50	24.79	0.301	1.00	Pass
			RB1#25	22.94	1.50	24.44	0.278	1.00	Pass
			RB1#49	23.68	1.50	25.18	0.330	1.00	Pass
			RB1#0	24.22	1.50	25.72	0.373	1.00	Pass
	MCH	QPSK	RB1#38	23.99	1.50	25.49	0.354	1.00	Pass
			RB1#74	24.19	1.50	25.69	0.371	1.00	Pass
			RB36#0	22.68	1.50	24.18	0.262	1.00	Pass
			RB36#19	22.85	1.50	24.35	0.272	1.00	Pass
			RB36#39	22.97	1.50	24.47	0.280	1.00	Pass
			RB75#0	24.06	1.50	25.56	0.360	1.00	Pass
		16-QAM	RB1#0	22.95	1.50	24.45	0.279	1.00	Pass
			RB1#38	22.77	1.50	24.27	0.267	1.00	Pass
			RB1#74	23.11	1.50	24.61	0.289	1.00	Pass
		QPSK	RB1#0	24.32	1.50	25.82	0.382	1.00	Pass
			RB1#38	24.52	1.50	26.02	0.400	1.00	Pass
			RB1#74	24.39	1.50	25.89	0.388	1.00	Pass
			RB36#0	23.40	1.50	24.90	0.309	1.00	Pass
			RB36#19	23.45	1.50	24.95	0.313	1.00	Pass
			RB36#39	23.40	1.50	24.90	0.309	1.00	Pass
20 MHz	LCH	QPSK	RB75#0	24.23	1.50	25.73	0.374	1.00	Pass
			RB1#0	23.51	1.50	25.01	0.317	1.00	Pass
			RB1#38	23.74	1.50	25.24	0.334	1.00	Pass
			RB1#74	23.71	1.50	25.21	0.332	1.00	Pass
			RB1#0	24.43	1.50	25.93	0.392	1.00	Pass
			RB1#38	24.18	1.50	25.68	0.370	1.00	Pass
			RB1#74	24.55	1.50	26.05	0.403	1.00	Pass
			RB36#0	23.20	1.50	24.70	0.295	1.00	Pass
			RB36#19	23.08	1.50	24.58	0.287	1.00	Pass
			RB36#39	23.01	1.50	24.51	0.282	1.00	Pass
			RB75#0	24.07	1.50	25.57	0.361	1.00	Pass
			RB1#0	23.67	1.50	25.17	0.329	1.00	Pass
			RB1#38	23.46	1.50	24.96	0.313	1.00	Pass
			RB1#74	23.98	1.50	25.48	0.353	1.00	Pass
			RB1#0	24.23	1.50	25.73	0.374	1.00	Pass
			RB1#50	24.14	1.50	25.64	0.366	1.00	Pass
			RB1#99	24.35	1.50	25.85	0.385	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	22.62	1.50	24.12	0.258	1.00	Pass
			RB50#25	22.95	1.50	24.45	0.279	1.00	Pass
			RB50#50	23.04	1.50	24.54	0.284	1.00	Pass
			RB100#0	23.93	1.50	25.43	0.349	1.00	Pass
		16-QAM	RB1#0	23.47	1.50	24.97	0.314	1.00	Pass
			RB1#50	23.39	1.50	24.89	0.308	1.00	Pass
			RB1#99	23.75	1.50	25.25	0.335	1.00	Pass
		MCH	RB1#0	24.16	1.50	25.66	0.368	1.00	Pass
			RB1#50	24.52	1.50	26.02	0.400	1.00	Pass
			RB1#99	24.31	1.50	25.81	0.381	1.00	Pass
			RB50#0	23.27	1.50	24.77	0.300	1.00	Pass
			RB50#25	23.47	1.50	24.97	0.314	1.00	Pass
			RB50#50	23.31	1.50	24.81	0.303	1.00	Pass
			RB100#0	23.84	1.50	25.34	0.342	1.00	Pass
		16-QAM	RB1#0	23.48	1.50	24.98	0.315	1.00	Pass
			RB1#50	23.91	1.50	25.41	0.348	1.00	Pass
			RB1#99	23.63	1.50	25.13	0.326	1.00	Pass
	HCH	QPSK	RB1#0	24.40	1.50	25.90	0.389	1.00	Pass
			RB1#50	24.21	1.50	25.71	0.372	1.00	Pass
			RB1#99	24.41	1.50	25.91	0.390	1.00	Pass
			RB50#0	23.20	1.50	24.70	0.295	1.00	Pass
			RB50#25	23.15	1.50	24.65	0.292	1.00	Pass
			RB50#50	22.81	1.50	24.31	0.270	1.00	Pass
			RB100#0	23.99	1.50	25.49	0.354	1.00	Pass
		16-QAM	RB1#0	23.68	1.50	25.18	0.330	1.00	Pass
			RB1#50	23.50	1.50	25.00	0.316	1.00	Pass
			RB1#99	23.76	1.50	25.26	0.336	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	24.34	-0.57	-2.72	21.62	0.145	7.00	Pass
			RB1#3	24.29	-0.57	-2.72	21.57	0.144	7.00	Pass
			RB1#5	24.26	-0.57	-2.72	21.54	0.143	7.00	Pass
			RB3#0	24.28	-0.57	-2.72	21.56	0.143	7.00	Pass
			RB3#2	24.25	-0.57	-2.72	21.53	0.142	7.00	Pass
			RB3#3	24.22	-0.57	-2.72	21.50	0.141	7.00	Pass
			RB6#0	23.22	-0.57	-2.72	20.50	0.112	7.00	Pass
		16-QAM	RB1#0	23.32	-0.57	-2.72	20.60	0.115	7.00	Pass
			RB1#3	23.32	-0.57	-2.72	20.60	0.115	7.00	Pass
			RB1#5	23.34	-0.57	-2.72	20.62	0.115	7.00	Pass
			RB3#0	23.28	-0.57	-2.72	20.56	0.114	7.00	Pass
			RB3#2	23.26	-0.57	-2.72	20.54	0.113	7.00	Pass
			RB3#3	23.31	-0.57	-2.72	20.59	0.115	7.00	Pass
			RB6#0	22.41	-0.57	-2.72	19.69	0.093	7.00	Pass
	MCH	QPSK	RB1#0	23.40	-0.57	-2.72	20.68	0.117	7.00	Pass
			RB1#3	23.45	-0.57	-2.72	20.73	0.118	7.00	Pass
			RB1#5	22.83	-0.57	-2.72	20.11	0.103	7.00	Pass
			RB3#0	23.22	-0.57	-2.72	20.50	0.112	7.00	Pass
			RB3#2	23.35	-0.57	-2.72	20.63	0.116	7.00	Pass
			RB3#3	22.77	-0.57	-2.72	20.05	0.101	7.00	Pass
			RB6#0	22.33	-0.57	-2.72	19.61	0.091	7.00	Pass
		16-QAM	RB1#0	22.62	-0.57	-2.72	19.90	0.098	7.00	Pass
			RB1#3	22.77	-0.57	-2.72	20.05	0.101	7.00	Pass
			RB1#5	22.13	-0.57	-2.72	19.41	0.087	7.00	Pass
			RB3#0	22.53	-0.57	-2.72	19.81	0.096	7.00	Pass
			RB3#2	22.60	-0.57	-2.72	19.88	0.097	7.00	Pass
			RB3#3	21.93	-0.57	-2.72	19.21	0.083	7.00	Pass
			RB6#0	21.33	-0.57	-2.72	18.61	0.073	7.00	Pass
	HCH	QPSK	RB1#0	23.25	-0.57	-2.72	20.53	0.113	7.00	Pass
			RB1#3	23.25	-0.57	-2.72	20.53	0.113	7.00	Pass
			RB1#5	23.24	-0.57	-2.72	20.52	0.113	7.00	Pass
			RB3#0	23.17	-0.57	-2.72	20.45	0.111	7.00	Pass
			RB3#2	23.19	-0.57	-2.72	20.47	0.111	7.00	Pass
			RB3#3	23.25	-0.57	-2.72	20.53	0.113	7.00	Pass
			RB6#0	22.11	-0.57	-2.72	19.39	0.087	7.00	Pass
		16-QAM	RB1#0	22.17	-0.57	-2.72	19.45	0.088	7.00	Pass
			RB1#3	22.19	-0.57	-2.72	19.47	0.089	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	22.28	-0.57	-2.72	19.56	0.090	7.00	Pass
			RB3#0	22.36	-0.57	-2.72	19.64	0.092	7.00	Pass
			RB3#2	22.36	-0.57	-2.72	19.64	0.092	7.00	Pass
			RB3#3	22.43	-0.57	-2.72	19.71	0.094	7.00	Pass
			RB6#0	21.42	-0.57	-2.72	18.70	0.074	7.00	Pass
	LCH	QPSK	RB1#0	24.28	-0.57	-2.72	21.56	0.143	7.00	Pass
			RB1#7	24.14	-0.57	-2.72	21.42	0.139	7.00	Pass
			RB1#14	23.76	-0.57	-2.72	21.04	0.127	7.00	Pass
			RB8#0	23.22	-0.57	-2.72	20.50	0.112	7.00	Pass
			RB8#4	23.08	-0.57	-2.72	20.36	0.109	7.00	Pass
			RB8#7	22.88	-0.57	-2.72	20.16	0.104	7.00	Pass
			RB15#0	23.07	-0.57	-2.72	20.35	0.108	7.00	Pass
		16-QAM	RB1#0	23.09	-0.57	-2.72	20.37	0.109	7.00	Pass
			RB1#7	22.99	-0.57	-2.72	20.27	0.106	7.00	Pass
			RB1#14	22.65	-0.57	-2.72	19.93	0.098	7.00	Pass
			RB8#0	22.29	-0.57	-2.72	19.57	0.091	7.00	Pass
			RB8#4	22.26	-0.57	-2.72	19.54	0.090	7.00	Pass
			RB8#7	22.08	-0.57	-2.72	19.36	0.086	7.00	Pass
			RB15#0	22.13	-0.57	-2.72	19.41	0.087	7.00	Pass
	MCH	QPSK	RB1#0	23.28	-0.57	-2.72	20.56	0.114	7.00	Pass
			RB1#7	22.91	-0.57	-2.72	20.19	0.104	7.00	Pass
			RB1#14	22.78	-0.57	-2.72	20.06	0.101	7.00	Pass
			RB8#0	22.30	-0.57	-2.72	19.58	0.091	7.00	Pass
			RB8#4	21.81	-0.57	-2.72	19.09	0.081	7.00	Pass
			RB8#7	21.75	-0.57	-2.72	19.03	0.080	7.00	Pass
			RB15#0	22.44	-0.57	-2.72	19.72	0.094	7.00	Pass
		16-QAM	RB1#0	22.47	-0.57	-2.72	19.75	0.094	7.00	Pass
			RB1#7	22.16	-0.57	-2.72	19.44	0.088	7.00	Pass
			RB1#14	22.04	-0.57	-2.72	19.32	0.086	7.00	Pass
			RB8#0	21.39	-0.57	-2.72	18.67	0.074	7.00	Pass
			RB8#4	20.98	-0.57	-2.72	18.26	0.067	7.00	Pass
			RB8#7	20.98	-0.57	-2.72	18.26	0.067	7.00	Pass
			RB15#0	21.53	-0.57	-2.72	18.81	0.076	7.00	Pass
	HCH	QPSK	RB1#0	23.09	-0.57	-2.72	20.37	0.109	7.00	Pass
			RB1#7	23.22	-0.57	-2.72	20.50	0.112	7.00	Pass
			RB1#14	23.15	-0.57	-2.72	20.43	0.110	7.00	Pass
			RB8#0	22.07	-0.57	-2.72	19.35	0.086	7.00	Pass
			RB8#4	22.22	-0.57	-2.72	19.50	0.089	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	22.18	-0.57	-2.72	19.46	0.088	7.00	Pass
			RB15#0	22.17	-0.57	-2.72	19.45	0.088	7.00	Pass
			RB1#0	22.13	-0.57	-2.72	19.41	0.087	7.00	Pass
			RB1#7	22.24	-0.57	-2.72	19.52	0.090	7.00	Pass
			RB1#14	22.15	-0.57	-2.72	19.43	0.088	7.00	Pass
			RB8#0	21.23	-0.57	-2.72	18.51	0.071	7.00	Pass
			RB8#4	21.29	-0.57	-2.72	18.57	0.072	7.00	Pass
			RB8#7	21.28	-0.57	-2.72	18.56	0.072	7.00	Pass
			RB15#0	21.16	-0.57	-2.72	18.44	0.070	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	24.44	-0.57	-2.72	21.72	0.149	7.00	Pass
			RB1#13	23.93	-0.57	-2.72	21.21	0.132	7.00	Pass
			RB1#24	23.70	-0.57	-2.72	20.98	0.125	7.00	Pass
			RB12#0	23.11	-0.57	-2.72	20.39	0.109	7.00	Pass
			RB12#6	22.82	-0.57	-2.72	20.10	0.102	7.00	Pass
			RB12#13	22.73	-0.57	-2.72	20.01	0.100	7.00	Pass
			RB25#0	22.68	-0.57	-2.72	19.96	0.099	7.00	Pass
		16-QAM	RB1#0	23.45	-0.57	-2.72	20.73	0.118	7.00	Pass
			RB1#13	23.02	-0.57	-2.72	20.30	0.107	7.00	Pass
			RB1#24	22.85	-0.57	-2.72	20.13	0.103	7.00	Pass
			RB12#0	22.19	-0.57	-2.72	19.47	0.089	7.00	Pass
			RB12#6	21.95	-0.57	-2.72	19.23	0.084	7.00	Pass
			RB12#13	21.87	-0.57	-2.72	19.15	0.082	7.00	Pass
			RB25#0	21.78	-0.57	-2.72	19.06	0.081	7.00	Pass
	MCH	QPSK	RB1#0	23.41	-0.57	-2.72	20.69	0.117	7.00	Pass
			RB1#13	22.96	-0.57	-2.72	20.24	0.106	7.00	Pass
			RB1#24	22.95	-0.57	-2.72	20.23	0.105	7.00	Pass
			RB12#0	22.10	-0.57	-2.72	19.38	0.087	7.00	Pass
			RB12#6	22.48	-0.57	-2.72	19.76	0.095	7.00	Pass
			RB12#13	21.75	-0.57	-2.72	19.03	0.080	7.00	Pass
			RB25#0	22.46	-0.57	-2.72	19.74	0.094	7.00	Pass
		16-QAM	RB1#0	22.64	-0.57	-2.72	19.92	0.098	7.00	Pass
			RB1#13	22.33	-0.57	-2.72	19.61	0.091	7.00	Pass
			RB1#24	22.36	-0.57	-2.72	19.64	0.092	7.00	Pass
			RB12#0	21.30	-0.57	-2.72	18.58	0.072	7.00	Pass
			RB12#6	21.61	-0.57	-2.72	18.89	0.077	7.00	Pass
			RB12#13	20.95	-0.57	-2.72	18.23	0.067	7.00	Pass
			RB25#0	21.55	-0.57	-2.72	18.83	0.076	7.00	Pass
	HCH	QPSK	RB1#0	23.47	-0.57	-2.72	20.75	0.119	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	23.16	-0.57	-2.72	20.44	0.111	7.00	Pass
			RB1#24	23.35	-0.57	-2.72	20.63	0.116	7.00	Pass
			RB12#0	22.15	-0.57	-2.72	19.43	0.088	7.00	Pass
			RB12#6	22.13	-0.57	-2.72	19.41	0.087	7.00	Pass
			RB12#13	22.11	-0.57	-2.72	19.39	0.087	7.00	Pass
			RB25#0	22.05	-0.57	-2.72	19.33	0.086	7.00	Pass
		16-QAM	RB1#0	22.44	-0.57	-2.72	19.72	0.094	7.00	Pass
			RB1#13	22.29	-0.57	-2.72	19.57	0.091	7.00	Pass
			RB1#24	22.46	-0.57	-2.72	19.74	0.094	7.00	Pass
			RB12#0	21.29	-0.57	-2.72	18.57	0.072	7.00	Pass
			RB12#6	21.24	-0.57	-2.72	18.52	0.071	7.00	Pass
			RB12#13	21.27	-0.57	-2.72	18.55	0.072	7.00	Pass
			RB25#0	21.08	-0.57	-2.72	18.36	0.069	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	24.48	-0.57	-2.72	21.76	0.150	7.00	Pass
			RB1#25	23.52	-0.57	-2.72	20.80	0.120	7.00	Pass
			RB1#49	23.30	-0.57	-2.72	20.58	0.114	7.00	Pass
			RB25#0	22.55	-0.57	-2.72	19.83	0.096	7.00	Pass
			RB25#13	22.50	-0.57	-2.72	19.78	0.095	7.00	Pass
			RB25#25	22.22	-0.57	-2.72	19.50	0.089	7.00	Pass
			RB50#0	22.28	-0.57	-2.72	19.56	0.090	7.00	Pass
		16-QAM	RB1#0	23.21	-0.57	-2.72	20.49	0.112	7.00	Pass
			RB1#25	22.45	-0.57	-2.72	19.73	0.094	7.00	Pass
			RB1#49	22.20	-0.57	-2.72	19.48	0.089	7.00	Pass
	MCH	QPSK	RB1#0	23.48	-0.57	-2.72	20.76	0.119	7.00	Pass
			RB1#25	23.52	-0.57	-2.72	20.80	0.120	7.00	Pass
			RB1#49	23.20	-0.57	-2.72	20.48	0.112	7.00	Pass
			RB25#0	22.01	-0.57	-2.72	19.29	0.085	7.00	Pass
			RB25#13	22.52	-0.57	-2.72	19.80	0.095	7.00	Pass
			RB25#25	21.72	-0.57	-2.72	19.00	0.079	7.00	Pass
			RB50#0	22.50	-0.57	-2.72	19.78	0.095	7.00	Pass
		16-QAM	RB1#0	22.51	-0.57	-2.72	19.79	0.095	7.00	Pass
			RB1#25	22.83	-0.57	-2.72	20.11	0.103	7.00	Pass
			RB1#49	22.52	-0.57	-2.72	19.80	0.095	7.00	Pass
	HCH	QPSK	RB1#0	23.17	-0.57	-2.72	20.45	0.111	7.00	Pass
			RB1#25	23.36	-0.57	-2.72	20.64	0.116	7.00	Pass
			RB1#49	23.33	-0.57	-2.72	20.61	0.115	7.00	Pass
			RB25#0	22.04	-0.57	-2.72	19.32	0.086	7.00	Pass
			RB25#13	22.21	-0.57	-2.72	19.49	0.089	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	RB25#25	21.97	-0.57	-2.72	19.25	0.084	7.00	Pass
			RB50#0	21.99	-0.57	-2.72	19.27	0.085	7.00	Pass
			RB1#0	22.08	-0.57	-2.72	19.36	0.086	7.00	Pass
			RB1#25	22.34	-0.57	-2.72	19.62	0.092	7.00	Pass
			RB1#49	22.28	-0.57	-2.72	19.56	0.090	7.00	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 BAND7									
5 MHz	LCH	QPSK	RB1#0	23.08	-0.54	22.54	0.179	2.00	Pass
			RB1#13	22.78	-0.54	22.24	0.167	2.00	Pass
			RB1#24	22.67	-0.54	22.13	0.163	2.00	Pass
			RB12#0	21.66	-0.54	21.12	0.129	2.00	Pass
			RB12#6	21.63	-0.54	21.09	0.129	2.00	Pass
			RB12#13	21.53	-0.54	20.99	0.126	2.00	Pass
			RB25#0	21.57	-0.54	21.03	0.127	2.00	Pass
		16-QAM	RB1#0	21.94	-0.54	21.40	0.138	2.00	Pass
			RB1#13	21.83	-0.54	21.29	0.135	2.00	Pass
			RB1#24	21.74	-0.54	21.20	0.132	2.00	Pass
			RB12#0	20.69	-0.54	20.15	0.104	2.00	Pass
			RB12#6	20.77	-0.54	20.23	0.105	2.00	Pass
			RB12#13	20.65	-0.54	20.11	0.103	2.00	Pass
			RB25#0	20.66	-0.54	20.12	0.103	2.00	Pass
	MCH	QPSK	RB1#0	21.90	-0.54	21.36	0.137	2.00	Pass
			RB1#13	21.72	-0.54	21.18	0.131	2.00	Pass
			RB1#24	21.80	-0.54	21.26	0.134	2.00	Pass
			RB12#0	20.54	-0.54	20.00	0.100	2.00	Pass
			RB12#6	20.60	-0.54	20.06	0.101	2.00	Pass
			RB12#13	20.55	-0.54	20.01	0.100	2.00	Pass
			RB25#0	20.58	-0.54	20.04	0.101	2.00	Pass
		16-QAM	RB1#0	21.12	-0.54	20.58	0.114	2.00	Pass
			RB1#13	21.09	-0.54	20.55	0.114	2.00	Pass
			RB1#24	21.13	-0.54	20.59	0.115	2.00	Pass
			RB12#0	19.73	-0.54	19.19	0.083	2.00	Pass
			RB12#6	19.81	-0.54	19.27	0.085	2.00	Pass
			RB12#13	19.70	-0.54	19.16	0.082	2.00	Pass
			RB25#0	19.71	-0.54	19.17	0.083	2.00	Pass
	HCH	QPSK	RB1#0	20.47	-0.54	19.93	0.098	2.00	Pass
			RB1#13	20.04	-0.54	19.50	0.089	2.00	Pass
			RB1#24	20.03	-0.54	19.49	0.089	2.00	Pass
			RB12#0	19.06	-0.54	18.52	0.071	2.00	Pass
			RB12#6	18.99	-0.54	18.45	0.070	2.00	Pass
			RB12#13	18.91	-0.54	18.37	0.069	2.00	Pass
			RB25#0	18.91	-0.54	18.37	0.069	2.00	Pass
		16-QAM	RB1#0	19.40	-0.54	18.86	0.077	2.00	Pass
			RB1#13	19.09	-0.54	18.55	0.072	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 BAND7									
10 MHz			RB1#24	19.15	-0.54	18.61	0.073	2.00	Pass
			RB12#0	18.27	-0.54	17.73	0.059	2.00	Pass
			RB12#6	18.26	-0.54	17.72	0.059	2.00	Pass
			RB12#13	18.13	-0.54	17.59	0.057	2.00	Pass
			RB25#0	18.12	-0.54	17.58	0.057	2.00	Pass
	LCH	QPSK	RB1#0	23.65	-0.54	23.11	0.205	2.00	Pass
			RB1#25	22.72	-0.54	22.18	0.165	2.00	Pass
			RB1#49	22.69	-0.54	22.15	0.164	2.00	Pass
			RB25#0	21.66	-0.54	21.12	0.129	2.00	Pass
			RB25#13	21.52	-0.54	20.98	0.125	2.00	Pass
			RB25#25	21.43	-0.54	20.89	0.123	2.00	Pass
			RB50#0	21.38	-0.54	20.84	0.121	2.00	Pass
		16-QAM	RB1#0	22.06	-0.54	21.52	0.142	2.00	Pass
			RB1#25	21.56	-0.54	21.02	0.126	2.00	Pass
			RB1#49	21.44	-0.54	20.90	0.123	2.00	Pass
	MCH	QPSK	RB1#0	22.20	-0.54	21.66	0.147	2.00	Pass
			RB1#25	21.86	-0.54	21.32	0.136	2.00	Pass
			RB1#49	22.09	-0.54	21.55	0.143	2.00	Pass
			RB25#0	20.57	-0.54	20.03	0.101	2.00	Pass
			RB25#13	20.72	-0.54	20.18	0.104	2.00	Pass
			RB25#25	20.63	-0.54	20.09	0.102	2.00	Pass
			RB50#0	20.68	-0.54	20.14	0.103	2.00	Pass
		16-QAM	RB1#0	21.20	-0.54	20.66	0.116	2.00	Pass
			RB1#25	21.12	-0.54	20.58	0.114	2.00	Pass
			RB1#49	21.22	-0.54	20.68	0.117	2.00	Pass
	HCH	QPSK	RB1#0	21.55	-0.54	21.01	0.126	2.00	Pass
			RB1#25	20.36	-0.54	19.82	0.096	2.00	Pass
			RB1#49	20.22	-0.54	19.68	0.093	2.00	Pass
			RB25#0	19.60	-0.54	19.06	0.081	2.00	Pass
			RB25#13	19.27	-0.54	18.73	0.075	2.00	Pass
			RB25#25	19.01	-0.54	18.47	0.070	2.00	Pass
			RB50#0	19.22	-0.54	18.68	0.074	2.00	Pass
		16-QAM	RB1#0	20.27	-0.54	19.73	0.094	2.00	Pass
			RB1#25	19.33	-0.54	18.79	0.076	2.00	Pass
			RB1#49	19.14	-0.54	18.60	0.072	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	23.60	-0.54	23.06	0.202	2.00	Pass
			RB1#38	22.72	-0.54	22.18	0.165	2.00	Pass
			RB1#74	22.21	-0.54	21.67	0.147	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 BAND7									
			RB36#0	21.72	-0.54	21.18	0.131	2.00	Pass
			RB36#19	21.63	-0.54	21.09	0.129	2.00	Pass
			RB36#39	21.35	-0.54	20.81	0.121	2.00	Pass
			RB75#0	22.28	-0.54	21.74	0.149	2.00	Pass
		16-QAM	RB1#0	22.11	-0.54	21.57	0.144	2.00	Pass
			RB1#38	21.48	-0.54	20.94	0.124	2.00	Pass
			RB1#74	21.17	-0.54	20.63	0.116	2.00	Pass
		MCH	RB1#0	22.23	-0.54	21.69	0.148	2.00	Pass
			RB1#38	21.99	-0.54	21.45	0.140	2.00	Pass
			RB1#74	22.04	-0.54	21.50	0.141	2.00	Pass
			RB36#0	20.85	-0.54	20.31	0.107	2.00	Pass
			RB36#19	20.99	-0.54	20.45	0.111	2.00	Pass
			RB36#39	20.96	-0.54	20.42	0.110	2.00	Pass
			RB75#0	22.13	-0.54	21.59	0.144	2.00	Pass
		16-QAM	RB1#0	21.35	-0.54	20.81	0.121	2.00	Pass
			RB1#38	21.37	-0.54	20.83	0.121	2.00	Pass
			RB1#74	21.42	-0.54	20.88	0.122	2.00	Pass
	HCH	QPSK	RB1#0	22.24	-0.54	21.70	0.148	2.00	Pass
			RB1#38	20.92	-0.54	20.38	0.109	2.00	Pass
			RB1#74	20.22	-0.54	19.68	0.093	2.00	Pass
			RB36#0	20.42	-0.54	19.88	0.097	2.00	Pass
			RB36#19	19.90	-0.54	19.36	0.086	2.00	Pass
			RB36#39	19.33	-0.54	18.79	0.076	2.00	Pass
			RB75#0	21.02	-0.54	20.48	0.112	2.00	Pass
		16-QAM	RB1#0	21.34	-0.54	20.80	0.120	2.00	Pass
			RB1#38	20.32	-0.54	19.78	0.095	2.00	Pass
			RB1#74	19.54	-0.54	19.00	0.079	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	23.70	-0.54	23.16	0.207	2.00	Pass
			RB1#50	22.48	-0.54	21.94	0.156	2.00	Pass
			RB1#99	22.15	-0.54	21.61	0.145	2.00	Pass
			RB50#0	21.57	-0.54	21.03	0.127	2.00	Pass
			RB50#25	21.50	-0.54	20.96	0.125	2.00	Pass
			RB50#50	21.08	-0.54	20.54	0.113	2.00	Pass
			RB100#0	21.96	-0.54	21.42	0.139	2.00	Pass
		16-QAM	RB1#0	22.72	-0.54	22.18	0.165	2.00	Pass
			RB1#50	21.87	-0.54	21.33	0.136	2.00	Pass
			RB1#99	21.47	-0.54	20.93	0.124	2.00	Pass
	MCH	QPSK	RB1#0	22.46	-0.54	21.92	0.156	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 BAND7									
			RB1#50	22.23	-0.54	21.69	0.148	2.00	Pass
			RB1#99	22.51	-0.54	21.97	0.157	2.00	Pass
			RB50#0	20.94	-0.54	20.40	0.110	2.00	Pass
			RB50#25	21.13	-0.54	20.59	0.115	2.00	Pass
			RB50#50	21.05	-0.54	20.51	0.112	2.00	Pass
			RB100#0	22.29	-0.54	21.75	0.150	2.00	Pass
		16-QAM	RB1#0	21.48	-0.54	20.94	0.124	2.00	Pass
			RB1#50	21.54	-0.54	21.00	0.126	2.00	Pass
			RB1#99	21.73	-0.54	21.19	0.132	2.00	Pass
	HCH	QPSK	RB1#0	22.49	-0.54	21.95	0.157	2.00	Pass
			RB1#50	21.43	-0.54	20.89	0.123	2.00	Pass
			RB1#99	20.27	-0.54	19.73	0.094	2.00	Pass
			RB50#0	20.84	-0.54	20.30	0.107	2.00	Pass
			RB50#25	20.37	-0.54	19.83	0.096	2.00	Pass
			RB50#50	19.51	-0.54	18.97	0.079	2.00	Pass
			RB100#0	21.34	-0.54	20.80	0.120	2.00	Pass
		16-QAM	RB1#0	21.62	-0.54	21.08	0.128	2.00	Pass
			RB1#50	20.68	-0.54	20.14	0.103	2.00	Pass
			RB1#99	19.54	-0.54	19.00	0.079	2.00	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. For GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.:BL-EC2361201-501 Data Part 1.pdf”.

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	5.44	13	1.1	Pass
				RB100#0	5.48	13	1.2	Pass
			16-QAM	RB1#0	6.33	13	1.3	Pass
		MCH	QPSK	RB1#0	4.97	13	1.4	Pass
				RB100#0	3.70	13	1.5	Pass
			16-QAM	RB1#0	6.14	13	1.6	Pass
		HCH	QPSK	RB1#0	5.20	13	1.7	Pass
				RB100#0	3.23	13	1.8	Pass
			16-QAM	RB1#0	6.28	13	1.9	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.97	13	2.1	Pass
				RB100#0	2.91	13	2.2	Pass
			16-QAM	RB1#0	6.00	13	2.3	Pass
		MCH	QPSK	RB1#0	4.87	13	2.4	Pass
				RB100#0	2.86	13	2.5	Pass
			16-QAM	RB1#0	5.95	13	2.6	Pass
		HCH	QPSK	RB1#0	4.87	13	2.7	Pass
				RB100#0	3.05	13	2.8	Pass
			16-QAM	RB1#0	6.23	13	2.9	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	4.92	13	3.1	Pass
				RB50#0	3.70	13	3.2	Pass
			16-QAM	RB1#0	5.53	13	3.3	Pass
		MCH	QPSK	RB1#0	4.87	13	3.4	Pass
				RB50#0	3.05	13	3.5	Pass
			16-QAM	RB1#0	5.86	13	3.6	Pass
		HCH	QPSK	RB1#0	5.77	13	3.7	Pass
				RB50#0	3.56	13	3.8	Pass
			16-QAM	RB1#0	6.66	13	3.9	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	3.70	13	4.1	Pass
				RB100#0	4.73	13	4.2	Pass
			16-QAM	RB1#0	4.03	13	4.3	Pass
		MCH	QPSK	RB1#0	3.80	13	4.4	Pass
				RB100#0	2.62	13	4.5	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
			16-QAM	RB1#0	4.41	13	4.6	Pass
		HCH	QPSK	RB1#0	3.47	13	4.7	Pass
				RB100#0	3.98	13	4.8	Pass
			16-QAM	RB1#0	4.41	13	4.9	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-EC2361201-501 Data Part 2.pdf”.

GPRS and EGPRS Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
GPRS 850	LCH	0.243	0.311	1.1
	MCH	0.244	0.311	1.2
	HCH	0.242	0.311	1.3
GPRS 1900	LCH	0.243	0.307	2.1
	MCH	0.243	0.312	2.2
	HCH	0.245	0.315	2.3
EGPRS 850	LCH	0.249	0.309	3.1
	MCH	0.246	0.308	3.2
	HCH	0.246	0.313	3.3
EGPRS 1900	LCH	0.264	0.340	4.1
	MCH	0.265	0.351	4.2
	HCH	0.266	0.345	4.3

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{†Note2}
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.085	1.265	5.1
			16-QAM	RB6#0	1.097	1.286	5.2
		MCH	QPSK	RB6#0	1.097	1.280	5.3
			16-QAM	RB6#0	1.085	1.271	5.4
		HCH	QPSK	RB6#0	1.085	1.276	5.5
			16-QAM	RB6#0	1.091	1.280	5.6
	3 MHz	LCH	QPSK	RB15#0	2.696	2.941	5.7
			16-QAM	RB15#0	2.696	2.963	5.8
		MCH	QPSK	RB15#0	2.697	2.956	5.9
			16-QAM	RB15#0	2.695	2.936	5.10
		HCH	QPSK	RB15#0	2.688	2.945	5.11
			16-QAM	RB15#0	2.688	2.962	5.12
	5 MHz	LCH	QPSK	RB25#0	4.499	4.983	5.13
			16-QAM	RB25#0	4.493	4.974	5.14
		MCH	QPSK	RB25#0	4.495	4.929	5.15
			16-QAM	RB25#0	4.493	4.961	5.16
		HCH	QPSK	RB25#0	4.505	4.953	5.17
			16-QAM	RB25#0	4.484	4.905	5.18
	10 MHz	LCH	QPSK	RB50#0	8.963	9.822	5.19
		MCH	QPSK	RB50#0	8.948	9.741	5.20
		HCH	QPSK	RB50#0	8.944	9.728	5.21
	15 MHz	LCH	QPSK	RB75#0	13.437	14.531	5.22
		MCH	QPSK	RB75#0	13.402	14.484	5.23
		HCH	QPSK	RB75#0	13.370	14.530	5.24
	20 MHz	LCH	QPSK	RB100#0	17.886	19.143	5.25
		MCH	QPSK	RB100#0	17.862	19.138	5.26
		HCH	QPSK	RB100#0	17.820	19.141	5.27

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{†Note2}
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.266	6.1
			16-QAM	RB6#0	1.091	1.274	6.2
		MCH	QPSK	RB6#0	1.088	1.271	6.3
			16-QAM	RB6#0	1.086	1.254	6.4
		HCH	QPSK	RB6#0	1.087	1.252	6.5
			16-QAM	RB6#0	1.091	1.263	6.6
	3 MHz	LCH	QPSK	RB15#0	2.692	2.928	6.7
			16-QAM	RB15#0	2.688	2.927	6.8
		MCH	QPSK	RB15#0	2.697	2.941	6.9
			16-QAM	RB15#0	2.696	2.948	6.10
		HCH	QPSK	RB15#0	2.701	2.957	6.11
			16-QAM	RB15#0	2.694	2.951	6.12
	5 MHz	LCH	QPSK	RB25#0	4.496	4.962	6.13
			16-QAM	RB25#0	4.491	4.916	6.14
		MCH	QPSK	RB25#0	4.487	4.964	6.15
			16-QAM	RB25#0	4.493	4.952	6.16
		HCH	QPSK	RB25#0	4.488	4.917	6.17
			16-QAM	RB25#0	4.498	4.990	6.18
	10 MHz	LCH	QPSK	RB50#0	8.960	9.836	6.19
		MCH	QPSK	RB50#0	8.946	9.776	6.20
		HCH	QPSK	RB50#0	8.947	9.720	6.21
	15 MHz	LCH	QPSK	RB75#0	13.414	14.537	6.22
		MCH	QPSK	RB75#0	13.400	14.512	6.23
		HCH	QPSK	RB75#0	13.397	14.595	6.24
	20 MHz	LCH	QPSK	RB100#0	17.885	19.120	6.25
		MCH	QPSK	RB100#0	17.857	19.194	6.26
		HCH	QPSK	RB100#0	17.871	19.190	6.27

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{†Note2}
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.262	7.1
			16-QAM	RB6#0	1.089	1.273	7.2
		MCH	QPSK	RB6#0	1.088	1.270	7.3
			16-QAM	RB6#0	1.085	1.248	7.4
		HCH	QPSK	RB6#0	1.089	1.248	7.5
			16-QAM	RB6#0	1.089	1.261	7.6
	3 MHz	LCH	QPSK	RB15#0	2.695	2.951	7.7
			16-QAM	RB15#0	2.691	2.942	7.8
		MCH	QPSK	RB15#0	2.703	2.946	7.9
			16-QAM	RB15#0	2.693	2.942	7.10
		HCH	QPSK	RB15#0	2.697	2.946	7.11
			16-QAM	RB15#0	2.690	2.946	7.12
	5 MHz	LCH	QPSK	RB25#0	4.499	4.930	7.13
			16-QAM	RB25#0	4.481	4.898	7.14
		MCH	QPSK	RB25#0	4.494	4.972	7.15
			16-QAM	RB25#0	4.503	4.958	7.16
		HCH	QPSK	RB25#0	4.484	4.942	7.17
			16-QAM	RB25#0	4.497	4.988	7.18
	10 MHz	LCH	QPSK	RB50#0	8.947	9.761	7.19
		MCH	QPSK	RB50#0	8.971	9.761	7.20
		HCH	QPSK	RB50#0	8.945	9.685	7.21

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{†Note2}
Band 7	5 MHz	LCH	QPSK	RB25#0	4.497	4.984	8.1
			16-QAM	RB25#0	4.499	4.973	8.2
		MCH	QPSK	RB25#0	4.494	4.926	8.3
			16-QAM	RB25#0	4.498	4.979	8.4
		HCH	QPSK	RB25#0	4.501	4.957	8.5
			16-QAM	RB25#0	4.488	4.940	8.6
	10 MHz	LCH	QPSK	RB50#0	8.954	9.800	8.7
		MCH	QPSK	RB50#0	8.943	9.776	8.8
		HCH	QPSK	RB50#0	8.938	9.753	8.9
	15 MHz	LCH	QPSK	RB75#0	13.444	14.591	8.10
		MCH	QPSK	RB75#0	13.419	14.524	8.11
		HCH	QPSK	RB75#0	13.381	14.505	8.12
	20 MHz	LCH	QPSK	RB100#0	17.903	19.141	8.13
		MCH	QPSK	RB100#0	17.89	19.197	8.14
		HCH	QPSK	RB100#0	17.789	19.122	8.15

A.4 Frequency Stability

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-32.03	±2060.5	-20.89	±2091.5	-31.35	±2122	Pass
	-20	-25.99		-29.41		-29.44		
	-10	-32.58		-21.89		-35.81		
	0	-20.73		-27.80		-25.44		
	+10	-28.06		-21.37		-30.74		
	+20	-22.18		-28.44		-23.37		
	+25	-16.69		-34.09		-32.25		
	+30	-13.53		-18.37		-39.91		
	+40	-24.12		-27.06		-28.44		
	+50	-25.28		-25.41		-39.91		
	+60	-15.08		-25.70		-33.58		
	+70	-21.02		-29.54		-32.09		
9	+25	-32.48		-33.29		-20.79		
90	+25	-31.64		-19.69		-35.26		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-32.80	±4625.5	-45.91	±4700.0	-46.20	±4774.5	Pass
	-20	-40.84		-35.58		26.99		
	-10	-57.08		-31.19		-27.35		
	0	-42.39		-31.70		35.09		
	+10	-38.74		-38.13		-53.98		
	+20	-20.89		-30.93		-27.83		
	+25	-54.14		-54.98		-30.61		
	+30	-49.78		-51.27		-44.46		
	+40	-34.61		-23.02		-49.14		
	+50	-59.28		-22.12		-38.39		
	+60	-41.49		-39.91		-48.91		
	+70	-32.51		-37.10		-24.96		
9	+25	32.35	±4625.5	-58.82	±4700.0	-67.28	±4774.5	Pass
90	+25	-47.46		-47.82		-62.12		

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-18.76	±2060.5	-12.17	±2091.5	9.88	±2122	Pass
	-20	-11.95		14.33		-17.53		
	-10	-14.30		12.07		-9.46		
	0	-13.30		-11.91		-12.79		
	+10	-21.24		12.75		-12.30		
	+20	-12.82		-11.43		12.91		
	+25	-11.07		-17.05		-19.27		
	+30	-12.04		-22.37		-9.75		
	+40	14.56		-17.56		-23.54		
	+50	-14.79		-14.30		-13.95		
	+60	19.11		-11.82		18.47		
	+70	-14.56		-18.50		-20.99		
9	+25	-15.37		-17.18		-19.66		
90	+25	15.14		-9.62		-12.56		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-31.16	±4625.5	-20.86	±4700.0	-25.86	±4774.5	Pass
	-20	21.57		-35.32		-38.32		
	-10	-45.04		-24.05		-34.71		
	0	-38.26		-30.45		34.00		
	+10	16.50		-36.74		-53.17		
	+20	-24.83		-26.89		-38.97		
	+25	-33.93		-45.52		39.78		
	+30	-38.23		-50.75		-39.61		
	+40	-41.13		-31.74		-47.01		
	+50	-46.94		-29.48		-42.68		
	+60	29.09		-38.32		-44.72		
	+70	-23.63		-51.56		-31.80		
9	+25	22.15	-51.40	-50.11				
90	+25	-63.54	-27.60	-21.66				

LTE Band 2 QPSK 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.5 MHz		MCH 1880 MHz		HCH 1907.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-16.75	±4631.25	-10.44	±4700.0	-19.27	±4768.75	Pass
	-20	-18.48		-15.59		-17.54		
	-10	-17.04		-14.98		-13.56		
	0	-15.71		-9.71		-23.88		
	+10	-12.36		-21.13		-21.56		
	+20	-14.19		-17.04		-7.58		
	+25	-16.15		-15.88		-9.11		
	+30	-0.67		-20.99		-10.86		
	+40	-18.74		-19.38		-21.54		
	+50	-5.35		-12.96		-15.54		
	+60	0.00		-10.53		-13.28		
	+70	-5.69		-18.68		-11.03		
8	+25	-12.67	-22.22	-9.17				
90	+25	-16.47	-10.73	-19.94				

LTE Band 2 16QAM 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.5 MHz		MCH 1880 MHz		HCH 1907.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-11.16	±4631.25	-20.63	±4700.0	-14.45	±4768.75	Pass
	-20	-12.27		-15.42		-16.81		
	-10	-8.45		-19.51		-5.54		
	0	-6.71		-21.33		-9.56		
	+10	-20.30		-12.52		-13.68		
	+20	-8.10		-18.05		-0.99		
	+25	-6.62		-12.16		-4.25		
	+30	-10.07		-14.28		-8.01		
	+40	-5.69		-14.78		-13.09		
	+50	-14.12		-14.58		-16.87		
	+60	-14.13		-11.22		-14.91		
	+70	-11.84		-14.53		-13.68		
9	+25	-12.62		-17.90		-7.81		
90	+25	-16.65		-15.76		-20.21		

LTE Band 4 QPSK 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1712.5 MHz		MCH 1732.5 MHz		HCH 1752.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-12.50	±4281.25	-13.85	±4331.25	-13.39	±4381.25	Pass
	-20	-2.22		-14.03		-16.62		
	-10	-15.92		-8.00		-13.79		
	0	-5.26		-13.32		-10.03		
	+10	-16.22		-14.02		-10.63		
	+20	-17.42		-12.72		-11.33		
	+25	-17.48		-13.50		0.00		
	+30	-16.05		-12.46		-18.18		
	+40	-18.30		-15.09		0.27		
	+50	-7.25		-11.49		-15.89		
	+60	-9.90		-13.58		-12.52		
	+70	-10.37		-10.74		-7.17		
9	+25	-7.30	±4281.25	-16.12	±4331.25	-10.40	±4381.25	Pass
90	+25	-16.91		-15.74		-14.65		

LTE Band 4 16QAM 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1712.5 MHz		MCH 1732.5 MHz		HCH 1752.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-4.66	±4281.25	-12.15	±4331.25	1.97	±4381.25	Pass
	-20	-11.13		-9.56		-10.37		
	-10	-18.48		-16.35		-7.68		
	0	-12.93		-16.99		-19.33		
	+10	-4.33		-13.83		-7.88		
	+20	-14.38		-9.41		-15.95		
	+25	-9.14		-8.34		0.00		
	+30	-17.38		-14.22		-16.92		
	+40	-9.61		-15.74		-12.47		
	+50	-10.01		-14.49		-15.45		
	+60	-13.03		-17.72		-17.67		
	+70	-9.24		-14.79		-14.99		
9	+25	-8.40	±4281.25	-6.58	±4331.25	-15.21	±4381.25	Pass
90	+25	-8.27		-10.44		-14.95		

LTE Band 5 QPSK 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.5 MHz		MCH 836.5 MHz		HCH 846.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-9.10	±2066.25	-16.31	±2091.25	-10.86	±2116.25	Pass
	-20	-12.23		-14.81		-8.15		
	-10	-23.23		-15.91		-7.90		
	0	-0.99		-15.06		-17.01		
	+10	-11.34		-20.56		-16.64		
	+20	-12.26		-15.31		-6.90		
	+25	-15.32		-13.16		-24.16		
	+30	-21.10		-13.28		-9.96		
	+40	-13.66		-8.44		-17.88		
	+50	-12.33		-6.81		-17.88		
	+60	-16.01		-15.76		-10.63		
	+70	-16.42		-20.03		-16.04		
9	+25	-9.83		-16.49		-15.31		
90	+25	-15.61		-12.27		-16.97		

LTE Band 5 16QAM 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.5 MHz		MCH 836.5 MHz		HCH 846.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-16.21	±2066.25	-6.51	±2091.25	-19.64	±2116.25	Pass
	-20	-18.85		-23.88		-15.42		
	-10	-3.36		-22.02		-17.70		
	0	-7.55		-3.25		-23.03		
	+10	-18.32		-5.36		-11.83		
	+20	-7.00		-3.58		-23.63		
	+25	-21.03		-4.71		-16.29		
	+30	-16.11		-20.33		-11.83		
	+40	-18.45		-3.83		-12.85		
	+50	-12.86		-6.67		-20.66		
	+60	-21.47		-21.10		-10.54		
	+70	-20.40		-8.70		-20.31		
9	+25	-9.61		-19.43		-5.92		
90	+25	-11.90		-12.04		-14.18		

LTE Band 7 QPSK 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2502.5 MHz		MCH 2535 MHz		HCH 2567.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-17.98	±6256.25	-24.63	±6337.5	-18.28	±6418.75	Pass
	-20	-10.06		-16.62		-5.42		
	-10	-17.81		-21.23		-13.20		
	0	-16.29		-11.87		-19.80		
	+10	-20.38		-11.89		-14.03		
	+20	-14.72		-17.67		-7.31		
	+25	-21.46		-15.78		-17.75		
	+30	-10.69		-11.37		-18.05		
	+40	-16.67		-2.00		-7.07		
	+50	-19.34		-17.19		-13.26		
	+60	-10.33		-14.28		0.17		
	+70	-10.70		-14.36		-3.88		
9	+25	-11.69	-6.34	-7.67				
90	+25	-6.11	-11.43	-9.13				

LTE Band 7 16QAM 5 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2502.5 MHz		MCH 2535 MHz		HCH 2567.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
12	-30	-17.32	±6256.25	-22.96	±6337.5	-21.50	±6418.75	Pass
	-20	-10.83		-15.02		-14.05		
	-10	-10.83		-7.41		-15.38		
	0	0.40		-8.20		-10.97		
	+10	-10.29		-21.06		-15.41		
	+20	-8.10		-8.77		3.43		
	+25	-9.50		-11.16		-2.70		
	+30	-1.60		10.16		-10.09		
	+40	-4.36		14.02		2.42		
	+50	-12.86		-9.98		-4.76		
	+60	4.08		11.60		16.11		
	+70	-15.88		1.33		1.62		
9	+25	-7.77	-10.06	0.43				
90	+25	-1.26	1.06	-5.04				

A.5 Spurious Emission at Antenna Terminals

Note 1: GPRS and EGPRS modes have been verified, and 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-EC2361201-501 Data Part 3.pdf".

GPRS and EGPRS Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GPRS 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GPRS 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
EGPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
EGPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	5.1	Pass
			16-QAM	RB1#0	5.2	Pass
		MCH	QPSK	RB1#0	5.3	Pass
			16-QAM	RB1#0	5.4	Pass
		HCH	QPSK	RB1#0	5.5	Pass
			16-QAM	RB1#0	5.6	Pass
	3 MHz	LCH	QPSK	RB1#0	5.7	Pass
			16-QAM	RB1#0	5.8	Pass
		MCH	QPSK	RB1#0	5.9	Pass
			16-QAM	RB1#0	5.10	Pass
		HCH	QPSK	RB1#0	5.11	Pass
			16-QAM	RB1#0	5.12	Pass
	5 MHz	LCH	QPSK	RB1#0	5.13	Pass
			16-QAM	RB1#0	5.14	Pass
		MCH	QPSK	RB1#0	5.15	Pass
			16-QAM	RB1#0	5.16	Pass
		HCH	QPSK	RB1#0	5.17	Pass
			16-QAM	RB1#0	5.18	Pass
	10 MHz	LCH	QPSK	RB1#0	5.19	Pass
			16-QAM	RB1#0	5.20	Pass
		MCH	QPSK	RB1#0	5.21	Pass
			16-QAM	RB1#0	5.22	Pass
		HCH	QPSK	RB1#0	5.23	Pass
			16-QAM	RB1#0	5.24	Pass
	15 MHz	LCH	QPSK	RB1#0	5.25	Pass
			16-QAM	RB1#0	5.26	Pass
		MCH	QPSK	RB1#0	5.27	Pass
			16-QAM	RB1#0	5.28	Pass
		HCH	QPSK	RB1#0	5.29	Pass
			16-QAM	RB1#0	5.30	Pass
	20 MHz	LCH	QPSK	RB1#0	5.31	Pass
			16-QAM	RB1#0	5.32	Pass
		MCH	QPSK	RB1#0	5.33	Pass
			16-QAM	RB1#0	5.34	Pass
		HCH	QPSK	RB1#0	5.35	Pass
			16-QAM	RB1#0	5.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	6.1	Pass
			16-QAM	RB1#0	6.2	Pass
		MCH	QPSK	RB1#0	6.3	Pass
			16-QAM	RB1#0	6.4	Pass
		HCH	QPSK	RB1#0	6.5	Pass
			16-QAM	RB1#0	6.6	Pass
	3 MHz	LCH	QPSK	RB1#0	6.7	Pass
			16-QAM	RB1#0	6.8	Pass
		MCH	QPSK	RB1#0	6.9	Pass
			16-QAM	RB1#0	6.10	Pass
		HCH	QPSK	RB1#0	6.11	Pass
			16-QAM	RB1#0	6.12	Pass
	5 MHz	LCH	QPSK	RB1#0	6.13	Pass
			16-QAM	RB1#0	6.14	Pass
		MCH	QPSK	RB1#0	6.15	Pass
			16-QAM	RB1#0	6.16	Pass
		HCH	QPSK	RB1#0	6.17	Pass
			16-QAM	RB1#0	6.18	Pass
	10 MHz	LCH	QPSK	RB1#0	6.19	Pass
			16-QAM	RB1#0	6.20	Pass
		MCH	QPSK	RB1#0	6.21	Pass
			16-QAM	RB1#0	6.22	Pass
		HCH	QPSK	RB1#0	6.23	Pass
			16-QAM	RB1#0	6.24	Pass
	15 MHz	LCH	QPSK	RB1#0	6.25	Pass
			16-QAM	RB1#0	6.26	Pass
		MCH	QPSK	RB1#0	6.27	Pass
			16-QAM	RB1#0	6.28	Pass
		HCH	QPSK	RB1#0	6.29	Pass
			16-QAM	RB1#0	6.30	Pass
	20 MHz	LCH	QPSK	RB1#0	6.31	Pass
			16-QAM	RB1#0	6.32	Pass
		MCH	QPSK	RB1#0	6.33	Pass
			16-QAM	RB1#0	6.34	Pass
		HCH	QPSK	RB1#0	6.35	Pass
			16-QAM	RB1#0	6.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	7.1	Pass
			16-QAM	RB1#0	7.2	Pass
		MCH	QPSK	RB1#0	7.3	Pass
			16-QAM	RB1#0	7.4	Pass
		HCH	QPSK	RB1#0	7.5	Pass
			16-QAM	RB1#0	7.6	Pass
	3 MHz	LCH	QPSK	RB1#0	7.7	Pass
			16-QAM	RB1#0	7.8	Pass
		MCH	QPSK	RB1#0	7.9	Pass
			16-QAM	RB1#0	7.10	Pass
		HCH	QPSK	RB1#0	7.11	Pass
			16-QAM	RB1#0	7.12	Pass
	5 MHz	LCH	QPSK	RB1#0	7.13	Pass
			16-QAM	RB1#0	7.14	Pass
		MCH	QPSK	RB1#0	7.15	Pass
			16-QAM	RB1#0	7.16	Pass
		HCH	QPSK	RB1#0	7.17	Pass
			16-QAM	RB1#0	7.18	Pass
	10 MHz	LCH	QPSK	RB1#0	7.19	Pass
			16-QAM	RB1#0	7.20	Pass
		MCH	QPSK	RB1#0	7.21	Pass
			16-QAM	RB1#0	7.22	Pass
		HCH	QPSK	RB1#0	7.23	Pass
			16-QAM	RB1#0	7.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	8.1	Pass
			16-QAM	RB1#0	8.2	Pass
		MCH	QPSK	RB1#0	8.3	Pass
			16-QAM	RB1#0	8.4	Pass
		HCH	QPSK	RB1#0	8.5	Pass
			16-QAM	RB1#0	8.6	Pass
	10 MHz	LCH	QPSK	RB1#0	8.7	Pass
			16-QAM	RB1#0	8.8	Pass
		MCH	QPSK	RB1#0	8.9	Pass
			16-QAM	RB1#0	8.10	Pass
		HCH	QPSK	RB1#0	8.11	Pass
			16-QAM	RB1#0	8.12	Pass
	15 MHz	LCH	QPSK	RB1#0	8.13	Pass
			16-QAM	RB1#0	8.14	Pass
		MCH	QPSK	RB1#0	8.15	Pass
			16-QAM	RB1#0	8.16	Pass
		HCH	QPSK	RB1#0	8.17	Pass
			16-QAM	RB1#0	8.18	Pass
	20 MHz	LCH	QPSK	RB1#0	8.19	Pass
			16-QAM	RB1#0	8.20	Pass
		MCH	QPSK	RB1#0	8.21	Pass
			16-QAM	RB1#0	8.22	Pass
		HCH	QPSK	RB1#0	8.23	Pass
			16-QAM	RB1#0	8.24	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-EC2361201-501 Data Part 4.pdf”.

GPRS and EGPRS Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note1}	Verdict
GPRS 850	LCH	1.1	Pass
	HCH	1.2	Pass
GPRS 1900	LCH	2.1	Pass
	HCH	2.2	Pass
EGPRS 850	LCH	3.1	Pass
	HCH	3.2	Pass
EGPRS 1900	LCH	4.1	Pass
	HCH	4.2	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	5.1	Pass
				RB6#0	5.2	Pass
			16-QAM	RB1#0	5.3	Pass
				RB6#0	5.4	Pass
		HCH	QPSK	RB1#5	5.5	Pass
				RB6#0	5.6	Pass
			16-QAM	RB1#5	5.7	Pass
				RB6#0	5.8	Pass
	3 MHz	LCH	QPSK	RB1#0	5.9	Pass
				RB15#0	5.10	Pass
			16-QAM	RB1#0	5.11	Pass
				RB15#0	5.12	Pass
		HCH	QPSK	RB1#14	5.13	Pass
				RB15#0	5.14	Pass
			16-QAM	RB1#14	5.15	Pass
				RB15#0	5.16	Pass
	5 MHz	LCH	QPSK	RB1#0	5.17	Pass
				RB25#0	5.18	Pass
			16-QAM	RB1#0	5.19	Pass
				RB25#0	5.20	Pass
		HCH	QPSK	RB1#24	5.21	Pass
				RB25#0	5.22	Pass
			16-QAM	RB1#24	5.23	Pass
				RB25#0	5.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
	10 MHz	LCH	QPSK	RB1#0	5.25	Pass
				RB50#0	5.26	Pass
			16-QAM	RB1#0	5.27	Pass
		HCH	QPSK	RB1#49	5.28	Pass
				RB50#0	5.29	Pass
			16-QAM	RB1#49	5.30	Pass
	15 MHz	LCH	QPSK	RB1#0	5.31	Pass
				RB75#0	5.32	Pass
			16-QAM	RB1#0	5.33	Pass
		HCH	QPSK	RB1#74	5.34	Pass
				RB75#0	5.35	Pass
			16-QAM	RB1#74	5.36	Pass
	20 MHz	LCH	QPSK	RB1#0	5.37	Pass
				RB100#0	5.38	Pass
			16-QAM	RB1#0	5.39	Pass
		HCH	QPSK	RB1#99	5.40	Pass
				RB100#0	5.41	Pass
			16-QAM	RB1#99	5.42	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	6.1	Pass
				RB6#0	6.2	Pass
			16-QAM	RB1#0	6.3	Pass
				RB6#0	6.4	Pass
		HCH	QPSK	RB1#5	6.5	Pass
				RB6#0	6.6	Pass
			16-QAM	RB1#5	6.7	Pass
				RB6#0	6.8	Pass
	3 MHz	LCH	QPSK	RB1#0	6.9	Pass
				RB15#0	6.10	Pass
			16-QAM	RB1#0	6.11	Pass
				RB15#0	6.12	Pass
		HCH	QPSK	RB1#14	6.13	Pass
				RB15#0	6.14	Pass
			16-QAM	RB1#14	6.15	Pass
				RB15#0	6.16	Pass
	5 MHz	LCH	QPSK	RB1#0	6.17	Pass
				RB25#0	6.18	Pass
			16-QAM	RB1#0	6.19	Pass
				RB25#0	6.20	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
		HCH	QPSK	RB1#24	6.21	Pass
				RB25#0	6.22	Pass
			16-QAM	RB1#24	6.23	Pass
				RB25#0	6.24	Pass
	10 MHz	LCH	QPSK	RB1#0	6.25	Pass
				RB50#0	6.26	Pass
			16-QAM	RB1#0	6.27	Pass
				RB1#49	6.28	Pass
		HCH	QPSK	RB50#0	6.29	Pass
				RB1#49	6.30	Pass
	15 MHz	LCH	QPSK	RB1#0	6.31	Pass
				RB75#0	6.32	Pass
			16-QAM	RB1#0	6.33	Pass
		HCH	QPSK	RB1#74	6.34	Pass
				RB75#0	6.35	Pass
			16-QAM	RB1#74	6.36	Pass
	20 MHz	LCH	QPSK	RB1#0	6.37	Pass
				RB100#0	6.38	Pass
			16-QAM	RB1#0	6.39	Pass
		HCH	QPSK	RB1#99	6.40	Pass
				RB100#0	6.41	Pass
			16-QAM	RB1#99	6.42	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	7.1	Pass
				RB6#0	7.2	Pass
			16-QAM	RB1#0	7.3	Pass
				RB6#0	7.4	Pass
		HCH	QPSK	RB1#5	7.5	Pass
				RB6#0	7.6	Pass
			16-QAM	RB1#5	7.7	Pass
				RB6#0	7.8	Pass
	3 MHz	LCH	QPSK	RB1#0	7.9	Pass
				RB15#0	7.10	Pass
			16-QAM	RB1#0	7.11	Pass
				RB15#0	7.12	Pass
		HCH	QPSK	RB1#14	7.13	Pass
				RB15#0	7.14	Pass
			16-QAM	RB1#14	7.15	Pass
				RB15#0	7.16	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
	5 MHz	LCH	QPSK	RB1#0	7.17	Pass
				RB25#0	7.18	Pass
		HCH	16-QAM	RB1#0	7.19	Pass
				RB25#0	7.20	Pass
			QPSK	RB1#24	7.21	Pass
				RB25#0	7.22	Pass
	10 MHz	LCH	16-QAM	RB1#24	7.23	Pass
				RB25#0	7.24	Pass
		HCH	QPSK	RB1#0	7.25	Pass
				RB50#0	7.26	Pass
			16-QAM	RB1#0	7.27	Pass
				RB1#49	7.28	Pass
		HCH	QPSK	RB50#0	7.29	Pass
				RB1#49	7.30	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	8.1	Pass
				RB25#0	8.2	Pass
			16-QAM	RB1#0	8.3	Pass
				RB25#0	8.4	Pass
		HCH	QPSK	RB1#24	8.5	Pass
				RB25#0	8.6	Pass
			16-QAM	RB1#24	8.7	Pass
				RB25#0	8.8	Pass
	10 MHz	LCH	QPSK	RB1#0	8.9	Pass
				RB50#0	8.10	Pass
			16-QAM	RB1#0	8.11	Pass
				RB1#49	8.12	Pass
		HCH	QPSK	RB50#0	8.13	Pass
				RB1#49	8.14	Pass
			16-QAM	RB1#0	8.15	Pass
				RB75#0	8.16	Pass
	15 MHz	LCH	16-QAM	RB1#0	8.17	Pass
				RB1#74	8.18	Pass
			QPSK	RB75#0	8.19	Pass
				RB1#74	8.20	Pass
		HCH	QPSK	RB1#0	8.21	Pass
				RB100#0	8.22	Pass
			16-QAM	RB1#0	8.23	Pass
				RB1#99	8.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
				RB100#0	8.25	Pass
			16-QAM	RB1#99	8.26	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-EC2361201-501 Data Part 5.pdf".

GPRS and EGPRS Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GPRS 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GPRS 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
EGPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
EGPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	5.1	Pass
	3 MHz	MCH	QPSK	RB1#0	5.2	Pass
	5 MHz	MCH	QPSK	RB1#0	5.3	Pass
	10 MHz	MCH	QPSK	RB1#0	5.4	Pass
	15 MHz	MCH	QPSK	RB1#0	5.5	Pass
	20 MHz	MCH	QPSK	RB1#0	5.6	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	6.1	Pass
	3 MHz	MCH	QPSK	RB1#0	6.2	Pass
	5 MHz	MCH	QPSK	RB1#0	6.3	Pass
	10 MHz	MCH	QPSK	RB1#0	6.4	Pass
	15 MHz	MCH	QPSK	RB1#0	6.5	Pass
	20 MHz	MCH	QPSK	RB1#0	6.6	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	7.1	Pass
	3 MHz	MCH	QPSK	RB1#0	7.2	Pass
	5 MHz	MCH	QPSK	RB1#0	7.3	Pass
	10 MHz	MCH	QPSK	RB1#0	7.4	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	8.1	Pass
	10 MHz	MCH	QPSK	RB1#0	8.2	Pass
	15 MHz	MCH	QPSK	RB1#0	8.3	Pass
	20 MHz	MCH	QPSK	RB1#0	8.4	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “BL-EC2361201-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “BL-EC2361201-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “BL-EC2361201-AI.PDF”.

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