

TEST REPORT

Applicant: SEUIC Technologies Co., Ltd.
Address: NO.15 Xinghuo Road, Nanjing New & High
Technology Industry Development Zone, 210061,
Nanjing City, Jiangsu Province, China
Equipment Type: Portable Data Collection Terminal
Model Name: AUTOID10 (refer section 2.4)
Brand Name: AUTOID, Seuic
FCC ID: 2AC68-AUTOID10
Test Standard: 47 CFR Part 2
(Others refer to chapter 3.1)
Test Date: Jul. 08, 2022 - Jul. 26, 2022
Date of Issue: Aug. 10, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhong Weiqiang**Checked by:** Wu Huihui**Approved by:** Wei Yanquan
(Chief Engineer)*Zhong Weiqiang**Wu Huihui**Wei Yanquan*

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 10, 2022</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China

2.2 Manufacturer Information

Manufacturer	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China

2.3 Factory Information

Factory	SEUIC Technologies Co., Ltd.
Address	3rd Floor, No.4 Building, Zhicheng Industrial Park, Zhida Road, Nanjing Jiangbei New Area, Nanjing City, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Portable Data Collection Terminal
Model Name Under Test	AUTOID10
Series Model Name	AUTOID10N, AUTOID10HC, AUTOID10L, AUTOID10R, AUTOID10B, AUTOID10P, AUTOID10I, AUTOID10-6L, AUTOID10C, AUTOID10X, AUTOID10U, AUTOID10W, AUTOID10E, AUTOID10T, AUTOID10G, AUTOID10D, AUTOID10 1/2, AUTOID10F
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name and colour.
Hardware Version	D560_Main_PCB_V3.1
Software Version	V1.0.30
Dimensions (Approx.)	160.34*67.02*19.9mm
Weight (Approx.)	N/A

2.5 Technical Information

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

All Network and Wireless connectivity for EUT	2G Network GSM/GPRS/EGPRS 850/ 1900 MHz 3G Network CDMA 1x Band Class 0 EVDO Rel. 0/Rev. A Band Class 0 WCDMA/HSDPA/HSUPA Band 2/ 5 4G Network FDD LTE Band 5/ 7 TDD LTE Band 38/ 41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, Beidou, GLONASS, Galileo, NFC
About the Product	The equipment is Portable Data Collection Terminal, intended for used with information technology equipment.
Note 1: The EUT is Portable Data Collection Terminal, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

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

Operating Bands	GSM/GPRS/EGPRS 850/ 1900 MHz CDMA 1x Band Class 0 EVDO Rel. 0/Rev. A Band Class 0 WCDMA/HSDPA/HSUPA Band 2/ 5 FDD LTE Band 5/ 7 TDD LTE Band 38/ 41	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	CDMA 1x	O-QPSK, H-PSK, QPSK
	EVDO	QPSK, 8PSK, 16-QAM
	HSDPA	QPSK
	/HSUPA	16QAM
	LTE	QPSK 16QAM
TX Frequency Range	GSM/GPRS/EGPRS 850: 824 MHz ~ 849 MHz GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz CDMA/EVDO BC 0: 824.025 MHz ~ 848.985 MHz WCDMA/HSDPA/HSUPA Band 2: 1850 MHz ~ 1910 MHz WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz FDD LTE Band 5: 824 MHz ~ 849 MHz FDD LTE Band 7: 2500 MHz ~ 2570 MHz TDD LTE Band 38: 2570 MHz ~ 2620 MHz TDD LTE Band 41: 2555 MHz ~ 2655 MHz	
Rx Frequency Range	GSM/GPRS/EGPRS 850: 869 MHz ~ 894 MHz GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz CDMA/EVDO BC 0: 869.025 MHz ~ 893.985 MHz WCDMA/HSDPA/HSUPA Band 2: 1930 MHz ~ 1990 MHz WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz FDD LTE Band 5: 869 MHz ~ 894 MHz FDD LTE Band 7: 2620 MHz ~ 2690 MHz TDD LTE Band 38: 2570 MHz ~ 2620 MHz TDD LTE Band 41: 2555 MHz ~ 2655 MHz	
Power Class	GSM/GPRS 850: 4 GSM/GPRS 1900: 1 EGPRS 850/1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 5: 3 FDD LTE Band 5: 3 FDD LTE Band 7: 3 FDD LTE Band 38: 3 FDD LTE Band 41: 3	

Multislot Class	GPRS/EGPRS: 33
Antenna Type	PIFA Antenna
Antenna Gain	GSM/GPRS/EGPRS 850: -2.36 dBi GSM/GPRS/EGPRS 1900: 3.08 dBi CDMA/EVDO BC 0: -2.36 dBi WCDMA/HSDPA/HSUPA Band 2: 3.08 dBi WCDMA/HSDPA/HSUPA Band 5: -2.36 dBi FDD LTE Band 5: -2.36 dBi FDD LTE Band 7: 1.78 dBi TDD LTE Band 38: 1.60 dBi TDD LTE Band 41: 1.60 dBi
The Max RF Output Power (EIRP/ERP)	GSM/GPRS/EGPRS 850: 28.27 dBm GSM/GPRS/EGPRS 1900: 30.72 dBm CDMA BC 0: 19.63dBm EVDO BC 0: 19.74dBm WCDMA/HSDPA/HSUPA Band 2: 26.02 dBm WCDMA/HSDPA/HSUPA Band 5: 18.78 dBm FDD LTE Band 5: 18.97 dBm FDD LTE Band 7: 23.24 dBm TDD LTE Band 38: 22.02 dBm TDD LTE Band 41: 25.07 dBm

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; 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/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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)	3.85 V
	LV (Low Voltage)	3.40 V
	HV (High Voltage)	4.40V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+50 °C

4.1 Test Equipment and Test Software 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
Temperature Chamber	AHK	SP20	1412	N/A	2021.11.30	2022.11.29
Universal Radio Communication Tester	R&S	CMU 200	121487	V5.21	2022.01.04	2023.01.03
Wideband Radio Communication Tester	R&S	CMW 500	167190	V4.0.60	2022.05.19	2023.05.18
Wideband Radio Communication Tester	R&S	CMW 500	102318	V3.2.71	2022.05.19	2023.05.18
Spectrum Analyzer	keysight	N9020A	MY50531628	A.16.09	2022.05.23	2023.05.22
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2022.01.04	2023.01.03
DC Power Supply	ITECH	IT6863A	800014020757120005	N/A	2021.09.22	2022.09.21
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	167190	V4.0.60	2022.05.19	2023.05.18

Wideband Radio Communication Tester	R&S	CMW 500	102318	V3.2.71	2022.05.19	2023.05.18
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2022.01.04	2023.01.03
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
Test Antenna-Horn(18-40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2021.01.04	2023.01.03
Anechoic Chamber	YIHENG	9m*6m*6m	#3	N/A	2022.02.09	2024.09.03
EMI Receiver	Keysight	N9038A	MY53220118	A.14.16	2021.09.13	2022.09.12

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Effective (Isotropic) Radiated Power	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 5	v	v	v
Peak to Average Ratio	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Occupied Bandwidth	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Frequency Stability	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Spurious Emission at Antenna Terminals	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
	EGPRS 1900	v	v	v
	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Band Edge	GSM 850	v	--	v
	GSM 1900	v	--	v
	EGPRS 850	v	--	v
	EGPRS 1900	v	--	v
	CDMA BC 0	v	--	v
	EVDO BC 0	v	--	v
	WCDMA Band 2	v	--	v
	WCDMA Band 5	v	--	v
Field Strength of Spurious Radiation	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC 0	v	v	v
	EVDO BC 0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Note 1: The mark “v” means that this configuration is chosen for testing.				

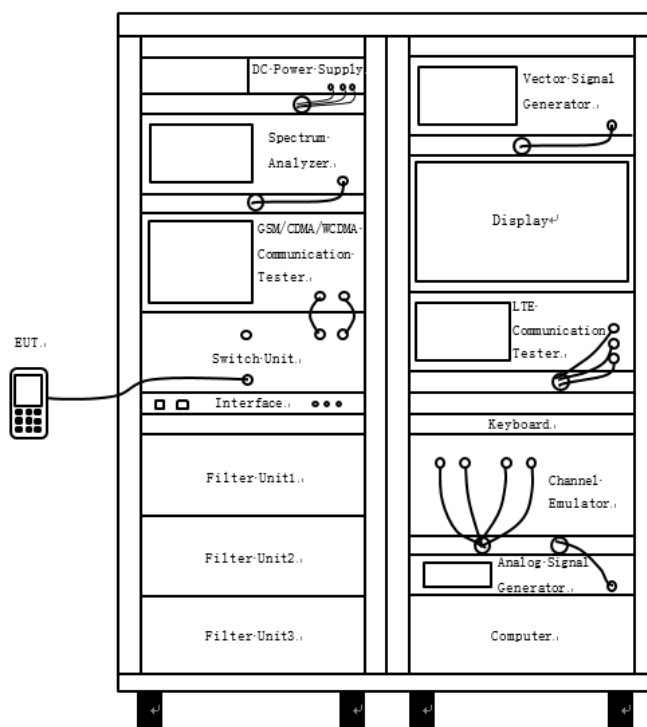
Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	Low Channel	128	824.2
	Middle Channel	190	836.6
	High Channel	251	848.8
GSM/GPRS/EGPRS 1900	Low Channel	512	1850.2
	Middle Channel	661	1880.0
	High Channel	810	1909.8
CDMA/EVDO BC 0	Low Channel	1013	824.70
	Middle Channel	384	836.52
	High Channel	777	848.31
WCDMA Band 2	Low Channel	9262	1852.4
	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
WCDMA Band 5	Low Channel	4132	826.4
	Middle Channel	4182	836.4
	High Channel	4233	846.6

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														
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
38	n	n	v	v	v	v	v	v	v	v	v	v	v	v
41	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio														
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
38	n	n	--	--	--	v	v	v	v	--	v	v	v	v
41	n	n	--	--	--	v	v	v	v	--	v	v	v	v
Occupied Bandwidth														
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
38	n	n	v	v	v	v	v	v	--	--	v	v	v	v
41	n	n	v	v	v	v	v	v	--	--	v	v	v	v
Frequency Stability														
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
38	n	n	--	v	--	--	v	v	--	--	v	--	v	--
41	n	n	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
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
38	n	n	v	v	v	v	v	v	v	--	--	v	v	v
41	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
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
38	n	n	v	v	v	v	v	v	v	--	v	v	--	v
41	n	n	v	v	v	v	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
38	n	n	v	v	v	v	v	--	v	--	--	--	v	--
41	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 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
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560
LTE Band 38	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Middle Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610
LTE Band 41	Low Range	5	40265	2577.5
		10	40290	2560
		15	40315	2562.5
		20	40340	2565
	Middle Range	5/10	40740	2605
	High Range	5	41215	2652.5
		10	41190	2650
		15	41165	2647.5
		20	41140	2645

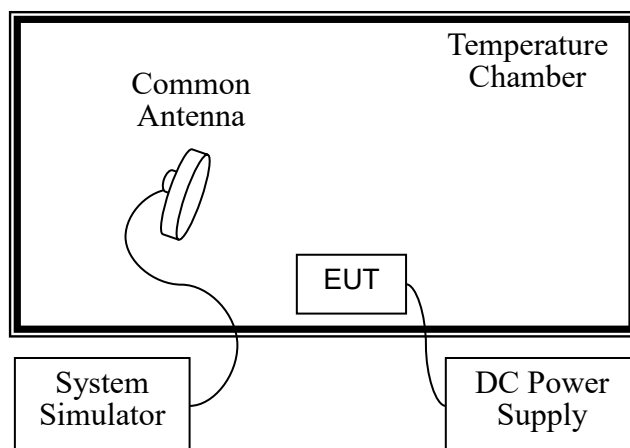
4.4 Test Setup

4.4.1 For Antenna Port Test



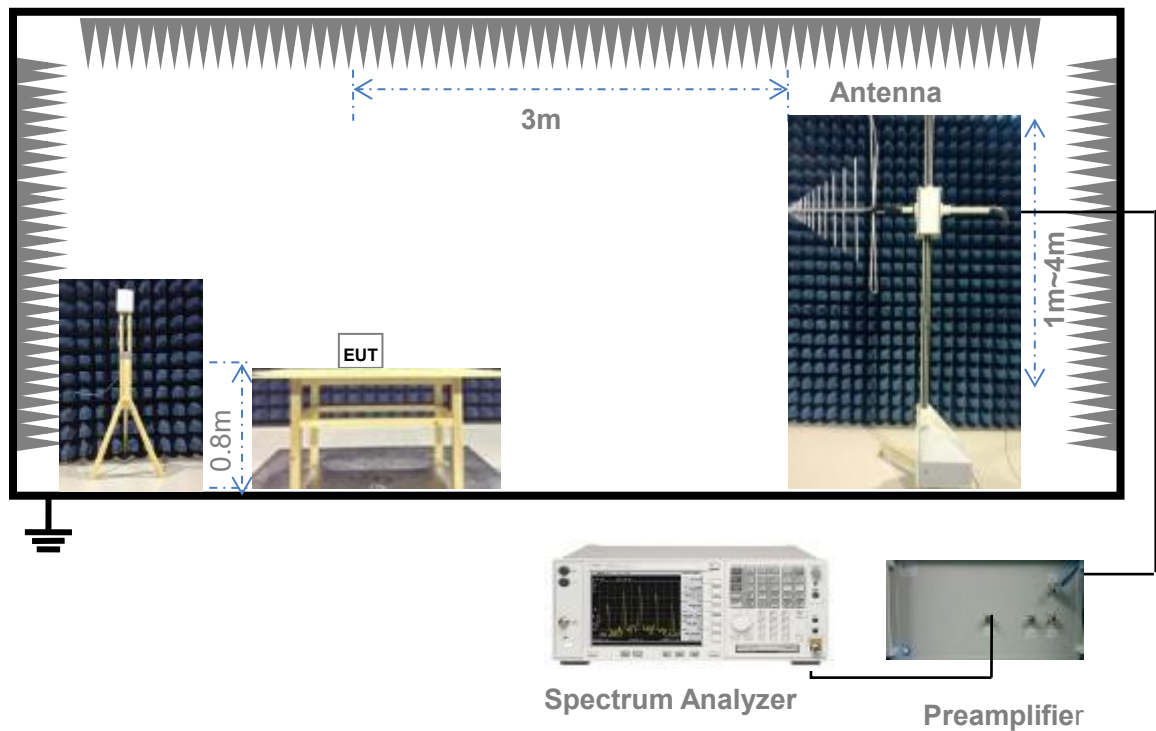
(Diagram 1)

4.4.2 For Frequency Stability Test



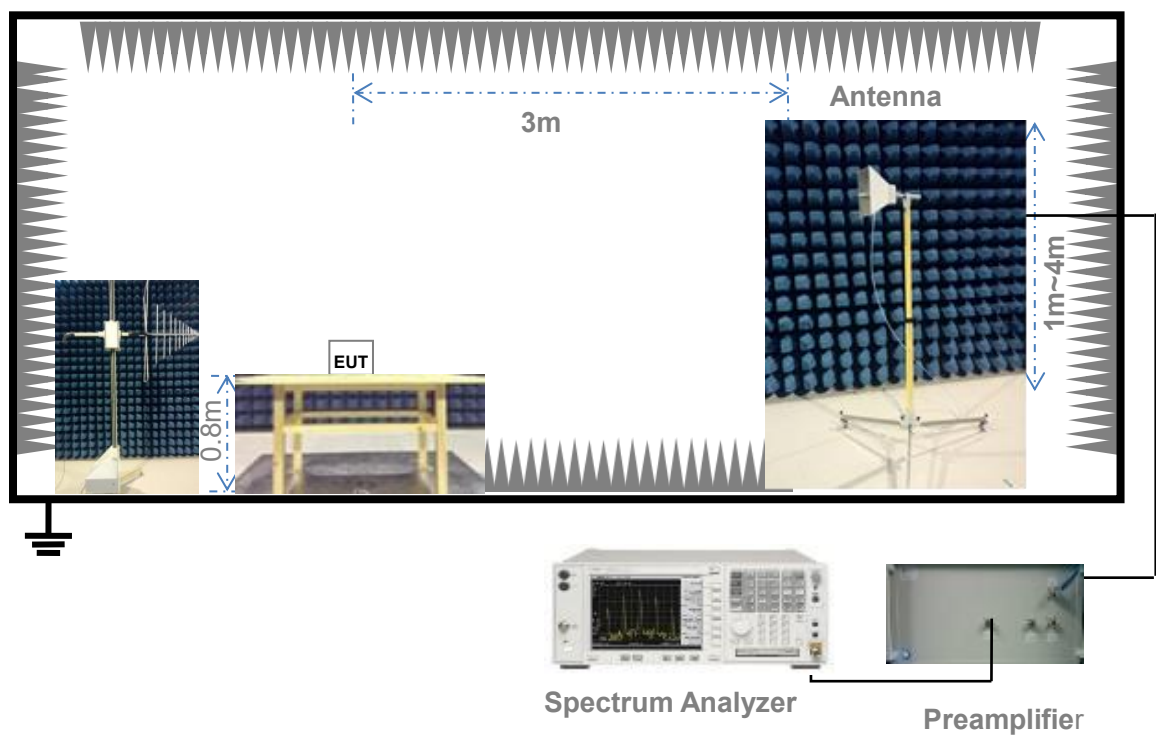
(Diagram 2)

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(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h)

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

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

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

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

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

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

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

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

terminal is 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:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

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)

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

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

FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

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

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

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ 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(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m)

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

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

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

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

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

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

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

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

FCC § 27.53(f)

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40+10\log P$ 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 50Ω ; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001 MHz RBW for frequency less than 150 kHz, 0.01 MHz RBW for frequency less than 30 MHz, 0.1 MHz RBW for frequency less than 1 GHz, and 1 MHz RBW for frequency above 1 GHz. And sweep point number are at least 401 , referring to following formula.

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

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

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

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

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

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

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

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

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

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

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40+10\log P$ 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. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. The center of the spectrum analyzer was set to block edge frequency.
5. Band edge are tested with $1\% \cdot \text{cBW}$ (RBW), and sweep point number referred to following formula.

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

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

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.

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

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

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(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m)

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

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

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

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

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

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

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

FCC § 27.53(f)

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40+10\log P$ 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)

GSM 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
GSM 850	LCH	32.78	-2.36	-4.51	28.27	0.671	7.00	Pass
	MCH	32.32	-2.36	-4.51	27.81	0.604	7.00	Pass
	HCH	32.31	-2.36	-4.51	27.80	0.603	7.00	Pass
GPRS 850	LCH	32.37	-2.36	-4.51	27.86	0.611	7.00	Pass
	MCH	31.93	-2.36	-4.51	27.42	0.552	7.00	Pass
	HCH	31.97	-2.36	-4.51	27.46	0.557	7.00	Pass
EGPRS 850	LCH	29.17	-2.36	-4.51	24.66	0.292	7.00	Pass
	MCH	29.19	-2.36	-4.51	24.68	0.294	7.00	Pass
	HCH	29.25	-2.36	-4.51	24.74	0.298	7.00	Pass

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
GSM 1900	LCH	27.54	3.08	30.62	1.153	2.00	Pass
	MCH	27.11	3.08	30.19	1.045	2.00	Pass
	HCH	27.15	3.08	30.23	1.054	2.00	Pass
GPRS 1900	LCH	27.64	3.08	30.72	1.180	2.00	Pass
	MCH	27.23	3.08	30.31	1.074	2.00	Pass
	HCH	27.27	3.08	30.35	1.084	2.00	Pass
EGPRS 1900	LCH	25.85	3.08	28.93	0.782	2.00	Pass
	MCH	25.45	3.08	28.53	0.713	2.00	Pass
	HCH	25.46	3.08	28.54	0.714	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 GSM/GPRS 850 (power class 4) and 0 for GSM/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	32.37	1.726	32.25	1.677	32.11	1.627	32.06	1.605
	MCH	31.93	1.560	31.79	1.510	31.62	1.451	31.54	1.424
	HCH	31.97	1.574	31.79	1.510	31.64	1.458	31.53	1.422
GPRS 1900	LCH	27.64	0.581	27.44	0.554	27.21	0.526	27.18	0.523
	MCH	27.23	0.528	27.05	0.507	26.79	0.478	26.63	0.460
	HCH	27.27	0.533	27.09	0.511	26.82	0.481	26.66	0.464

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	29.17	0.826	29.04	0.802	28.89	0.774	28.72	0.745
	MCH	29.19	0.830	28.93	0.782	28.77	0.754	28.60	0.725
	HCH	29.25	0.841	29.00	0.794	28.83	0.764	28.67	0.736
EGPRS 1900	LCH	25.85	0.385	25.58	0.361	25.30	0.339	25.22	0.333
	MCH	25.45	0.351	25.23	0.333	25.02	0.318	24.96	0.314
	HCH	25.46	0.352	25.17	0.328	24.90	0.309	24.72	0.297

CDMA & EVDO Mode Test Data

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CDMA BC0 F1R1	LCH	23.83	-2.36	19.32	0.086	7.000	Pass
	MCH	24.11	-2.36	19.60	0.091	7.000	Pass
	HCH	24.12	-2.36	19.61	0.091	7.000	Pass
CDMA BC0 F3R3	LCH	23.86	-2.36	19.35	0.086	7.000	Pass
	MCH	24.14	-2.36	19.63	0.092	7.000	Pass
	HCH	24.03	-2.36	19.52	0.090	7.000	Pass
EVDO BC0 Rel. 0	LCH	23.94	-2.36	19.43	0.088	7.000	Pass
	MCH	24.20	-2.36	19.69	0.093	7.000	Pass
	HCH	24.13	-2.36	19.62	0.092	7.000	Pass
EVDO BC0 Rel. A	LCH	23.80	-2.36	19.29	0.085	7.000	Pass
	MCH	24.25	-2.36	19.74	0.094	7.000	Pass
	HCH	24.04	-2.36	19.53	0.090	7.000	Pass

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

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

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

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

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

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

WCDMA Mode Test Data

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 2	LCH	22.94	3.08	26.02	0.400	2.00	Pass
	MCH	22.86	3.08	25.94	0.393	2.00	Pass
	HCH	22.74	3.08	25.82	0.382	2.00	Pass
HSDPA Band 2	LCH	21.92	3.08	25.00	0.316	2.00	Pass
	MCH	21.85	3.08	24.93	0.311	2.00	Pass
	HCH	21.73	3.08	24.81	0.303	2.00	Pass
HSUPA Band 2	LCH	21.90	3.08	24.98	0.315	2.00	Pass
	MCH	21.85	3.08	24.93	0.311	2.00	Pass
	HCH	21.67	3.08	24.75	0.299	2.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
WCDMA Band 5	LCH	22.98	-2.36	-4.51	18.47	0.070	7.00	Pass
	MCH	23.18	-2.36	-4.51	18.67	0.074	7.00	Pass
	HCH	23.29	-2.36	-4.51	18.78	0.076	7.00	Pass
HSDPA Band 5	LCH	21.97	-2.36	-4.51	17.46	0.056	7.00	Pass
	MCH	22.18	-2.36	-4.51	17.67	0.058	7.00	Pass
	HCH	22.27	-2.36	-4.51	17.76	0.060	7.00	Pass
HSUPA Band 5	LCH	22.00	-2.36	-4.51	17.49	0.056	7.00	Pass
	MCH	22.29	-2.36	-4.51	17.78	0.060	7.00	Pass
	HCH	22.35	-2.36	-4.51	17.84	0.061	7.00	Pass

Note 1: For the HSDPA and HSUPA mode, all subtests 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.

HSDPA Conducted Output Power

Band	Channel	Conducted Output Average Power							
		Subtest1		Subtest2		Subtest3		Subtest4	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSDPA Band 2	LCH	21.92	0.156	21.87	0.154	21.37	0.137	21.38	0.137
	MCH	21.85	0.153	21.85	0.153	21.35	0.136	21.37	0.137
	HCH	21.73	0.149	21.73	0.149	21.21	0.132	21.20	0.132
HSDPA Band 5	LCH	21.96	0.157	21.97	0.157	21.45	0.140	21.44	0.139
	MCH	22.18	0.165	22.15	0.164	21.67	0.147	21.68	0.147
	HCH	22.26	0.168	22.27	0.169	21.75	0.150	21.75	0.150

HSUPA Conducted Output Power

Band	Channel	Conducted Output Average Power									
		Subtest1		Subtest2		Subtest3		Subtest4		Subtest5	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSUPA Band 2	LCH	21.89	0.155	19.90	0.098	20.86	0.122	19.86	0.097	21.90	0.155
	MCH	21.85	0.153	19.80	0.095	20.86	0.122	19.84	0.096	21.84	0.153
	HCH	21.67	0.147	19.64	0.092	20.73	0.118	19.62	0.092	21.67	0.147
HSUPA Band 5	LCH	21.97	0.157	20.03	0.101	21.07	0.128	20.01	0.100	22.00	0.158
	MCH	22.24	0.167	20.22	0.105	21.25	0.133	20.24	0.106	22.29	0.169
	HCH	22.35	0.172	20.33	0.108	21.34	0.136	20.33	0.108	22.28	0.169

LTE Mode Test Data

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	22.72	-2.36	-4.51	18.21	0.066	7.00	Pass
			RB1#3	22.77	-2.36	-4.51	18.26	0.067	7.00	Pass
			RB1#5	22.77	-2.36	-4.51	18.26	0.067	7.00	Pass
			RB3#0	22.73	-2.36	-4.51	18.22	0.066	7.00	Pass
			RB3#2	22.76	-2.36	-4.51	18.25	0.067	7.00	Pass
			RB3#3	22.75	-2.36	-4.51	18.24	0.067	7.00	Pass
			RB6#0	21.69	-2.36	-4.51	17.18	0.052	7.00	Pass
		16-QAM	RB1#0	21.79	-2.36	-4.51	17.28	0.053	7.00	Pass
			RB1#3	21.9	-2.36	-4.51	17.39	0.055	7.00	Pass
			RB1#5	21.84	-2.36	-4.51	17.33	0.054	7.00	Pass
			RB3#0	21.74	-2.36	-4.51	17.23	0.053	7.00	Pass
			RB3#2	21.82	-2.36	-4.51	17.31	0.054	7.00	Pass
			RB3#3	21.79	-2.36	-4.51	17.28	0.053	7.00	Pass
			RB6#0	20.83	-2.36	-4.51	16.32	0.043	7.00	Pass
	MCH	QPSK	RB1#0	23.06	-2.36	-4.51	18.55	0.072	7.00	Pass
			RB1#3	23.1	-2.36	-4.51	18.59	0.072	7.00	Pass
			RB1#5	23.09	-2.36	-4.51	18.58	0.072	7.00	Pass
			RB3#0	23.06	-2.36	-4.51	18.55	0.072	7.00	Pass
			RB3#2	23.09	-2.36	-4.51	18.58	0.072	7.00	Pass
			RB3#3	23.06	-2.36	-4.51	18.55	0.072	7.00	Pass
			RB6#0	22.12	-2.36	-4.51	17.61	0.058	7.00	Pass
		16-QAM	RB1#0	22.45	-2.36	-4.51	17.94	0.062	7.00	Pass
			RB1#3	22.44	-2.36	-4.51	17.93	0.062	7.00	Pass
			RB1#5	22.42	-2.36	-4.51	17.91	0.062	7.00	Pass
			RB3#0	22.31	-2.36	-4.51	17.80	0.060	7.00	Pass
			RB3#2	22.36	-2.36	-4.51	17.85	0.061	7.00	Pass
			RB3#3	22.23	-2.36	-4.51	17.72	0.059	7.00	Pass
			RB6#0	21	-2.36	-4.51	16.49	0.045	7.00	Pass
	HCH	QPSK	RB1#0	23.11	-2.36	-4.51	18.60	0.072	7.00	Pass
			RB1#3	23.11	-2.36	-4.51	18.60	0.072	7.00	Pass
			RB1#5	23.13	-2.36	-4.51	18.62	0.073	7.00	Pass
			RB3#0	23.1	-2.36	-4.51	18.59	0.072	7.00	Pass
			RB3#2	23.15	-2.36	-4.51	18.64	0.073	7.00	Pass
			RB3#3	23.16	-2.36	-4.51	18.65	0.073	7.00	Pass
			RB6#0	22.09	-2.36	-4.51	17.58	0.057	7.00	Pass
		16-QAM	RB1#0	22.08	-2.36	-4.51	17.57	0.057	7.00	Pass
			RB1#3	22.15	-2.36	-4.51	17.64	0.058	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	22.13	-2.36	-4.51	17.62	0.058	7.00	Pass
			RB3#0	22.25	-2.36	-4.51	17.74	0.059	7.00	Pass
			RB3#2	22.29	-2.36	-4.51	17.78	0.060	7.00	Pass
			RB3#3	22.26	-2.36	-4.51	17.75	0.060	7.00	Pass
			RB6#0	21.28	-2.36	-4.51	16.77	0.048	7.00	Pass
	LCH	QPSK	RB1#0	22.7	-2.36	-4.51	18.19	0.066	7.00	Pass
			RB1#7	22.82	-2.36	-4.51	18.31	0.068	7.00	Pass
			RB1#14	22.76	-2.36	-4.51	18.25	0.067	7.00	Pass
			RB8#0	21.8	-2.36	-4.51	17.29	0.054	7.00	Pass
			RB8#4	21.85	-2.36	-4.51	17.34	0.054	7.00	Pass
			RB8#7	21.91	-2.36	-4.51	17.40	0.055	7.00	Pass
			RB15#0	21.88	-2.36	-4.51	17.37	0.055	7.00	Pass
		16-QAM	RB1#0	21.64	-2.36	-4.51	17.13	0.052	7.00	Pass
			RB1#7	21.78	-2.36	-4.51	17.27	0.053	7.00	Pass
			RB1#14	21.72	-2.36	-4.51	17.21	0.053	7.00	Pass
			RB8#0	20.9	-2.36	-4.51	16.39	0.044	7.00	Pass
			RB8#4	20.94	-2.36	-4.51	16.43	0.044	7.00	Pass
			RB8#7	20.96	-2.36	-4.51	16.45	0.044	7.00	Pass
			RB15#0	20.86	-2.36	-4.51	16.35	0.043	7.00	Pass
	MCH	QPSK	RB1#0	23.13	-2.36	-4.51	18.62	0.073	7.00	Pass
			RB1#7	23.13	-2.36	-4.51	18.62	0.073	7.00	Pass
			RB1#14	23.13	-2.36	-4.51	18.62	0.073	7.00	Pass
			RB8#0	22.12	-2.36	-4.51	17.61	0.058	7.00	Pass
			RB8#4	22.17	-2.36	-4.51	17.66	0.058	7.00	Pass
			RB8#7	22.13	-2.36	-4.51	17.62	0.058	7.00	Pass
			RB15#0	22.13	-2.36	-4.51	17.62	0.058	7.00	Pass
		16-QAM	RB1#0	22.46	-2.36	-4.51	17.95	0.062	7.00	Pass
			RB1#7	22.51	-2.36	-4.51	18.00	0.063	7.00	Pass
			RB1#14	22.5	-2.36	-4.51	17.99	0.063	7.00	Pass
			RB8#0	21.2	-2.36	-4.51	16.69	0.047	7.00	Pass
			RB8#4	21.22	-2.36	-4.51	16.71	0.047	7.00	Pass
			RB8#7	21.15	-2.36	-4.51	16.64	0.046	7.00	Pass
			RB15#0	21.13	-2.36	-4.51	16.62	0.046	7.00	Pass
	HCH	QPSK	RB1#0	23.01	-2.36	-4.51	18.50	0.071	7.00	Pass
			RB1#7	23.07	-2.36	-4.51	18.56	0.072	7.00	Pass
			RB1#14	23.05	-2.36	-4.51	18.54	0.071	7.00	Pass
			RB8#0	22.07	-2.36	-4.51	17.56	0.057	7.00	Pass
			RB8#4	22.09	-2.36	-4.51	17.58	0.057	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	22.05	-2.36	-4.51	17.54	0.057	7.00	Pass
			RB15#0	22.08	-2.36	-4.51	17.57	0.057	7.00	Pass
			RB1#0	22.06	-2.36	-4.51	17.55	0.057	7.00	Pass
			RB1#7	22.11	-2.36	-4.51	17.60	0.058	7.00	Pass
			RB1#14	22.08	-2.36	-4.51	17.57	0.057	7.00	Pass
			RB8#0	21.1	-2.36	-4.51	16.59	0.046	7.00	Pass
			RB8#4	21.15	-2.36	-4.51	16.64	0.046	7.00	Pass
			RB8#7	21.11	-2.36	-4.51	16.60	0.046	7.00	Pass
			RB15#0	21.08	-2.36	-4.51	16.57	0.045	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	22.83	-2.36	-4.51	18.32	0.068	7.00	Pass
			RB1#13	22.89	-2.36	-4.51	18.38	0.069	7.00	Pass
			RB1#24	22.97	-2.36	-4.51	18.46	0.070	7.00	Pass
			RB12#0	21.85	-2.36	-4.51	17.34	0.054	7.00	Pass
			RB12#6	21.86	-2.36	-4.51	17.35	0.054	7.00	Pass
			RB12#13	21.9	-2.36	-4.51	17.39	0.055	7.00	Pass
			RB25#0	21.83	-2.36	-4.51	17.32	0.054	7.00	Pass
		16-QAM	RB1#0	22.01	-2.36	-4.51	17.50	0.056	7.00	Pass
			RB1#13	22.05	-2.36	-4.51	17.54	0.057	7.00	Pass
			RB1#24	22.16	-2.36	-4.51	17.65	0.058	7.00	Pass
			RB12#0	20.96	-2.36	-4.51	16.45	0.044	7.00	Pass
			RB12#6	20.97	-2.36	-4.51	16.46	0.044	7.00	Pass
			RB12#13	21.01	-2.36	-4.51	16.50	0.045	7.00	Pass
			RB25#0	20.88	-2.36	-4.51	16.37	0.043	7.00	Pass
	MCH	QPSK	RB1#0	23.19	-2.36	-4.51	18.68	0.074	7.00	Pass
			RB1#13	23.21	-2.36	-4.51	18.70	0.074	7.00	Pass
			RB1#24	23.14	-2.36	-4.51	18.63	0.073	7.00	Pass
			RB12#0	22.16	-2.36	-4.51	17.65	0.058	7.00	Pass
			RB12#6	22.18	-2.36	-4.51	17.67	0.058	7.00	Pass
			RB12#13	22.15	-2.36	-4.51	17.64	0.058	7.00	Pass
			RB25#0	22.17	-2.36	-4.51	17.66	0.058	7.00	Pass
		16-QAM	RB1#0	22.65	-2.36	-4.51	18.14	0.065	7.00	Pass
			RB1#13	22.71	-2.36	-4.51	18.20	0.066	7.00	Pass
			RB1#24	22.62	-2.36	-4.51	18.11	0.065	7.00	Pass
			RB12#0	21.32	-2.36	-4.51	16.81	0.048	7.00	Pass
			RB12#6	21.3	-2.36	-4.51	16.79	0.048	7.00	Pass
			RB12#13	21.3	-2.36	-4.51	16.79	0.048	7.00	Pass
			RB25#0	21.23	-2.36	-4.51	16.72	0.047	7.00	Pass
	HCH	QPSK	RB1#0	23.09	-2.36	-4.51	18.58	0.072	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	23.1	-2.36	-4.51	18.59	0.072	7.00	Pass
			RB1#24	23.11	-2.36	-4.51	18.60	0.072	7.00	Pass
			RB12#0	22.06	-2.36	-4.51	17.55	0.057	7.00	Pass
			RB12#6	22.13	-2.36	-4.51	17.62	0.058	7.00	Pass
			RB12#13	22.14	-2.36	-4.51	17.63	0.058	7.00	Pass
			RB25#0	22.11	-2.36	-4.51	17.60	0.058	7.00	Pass
		16-QAM	RB1#0	22.2	-2.36	-4.51	17.69	0.059	7.00	Pass
			RB1#13	22.21	-2.36	-4.51	17.70	0.059	7.00	Pass
			RB1#24	22.2	-2.36	-4.51	17.69	0.059	7.00	Pass
			RB12#0	21.14	-2.36	-4.51	16.63	0.046	7.00	Pass
			RB12#6	21.18	-2.36	-4.51	16.67	0.046	7.00	Pass
			RB12#13	21.19	-2.36	-4.51	16.68	0.047	7.00	Pass
			RB25#0	21.06	-2.36	-4.51	16.55	0.045	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	22.98	-2.36	-4.51	18.47	0.070	7.00	Pass
			RB1#25	22.98	-2.36	-4.51	18.47	0.070	7.00	Pass
			RB1#49	23.45	-2.36	-4.51	18.94	0.078	7.00	Pass
			RB25#0	21.9	-2.36	-4.51	17.39	0.055	7.00	Pass
			RB25#13	22.09	-2.36	-4.51	17.58	0.057	7.00	Pass
			RB25#25	22.15	-2.36	-4.51	17.64	0.058	7.00	Pass
			RB50#0	22.09	-2.36	-4.51	17.58	0.057	7.00	Pass
		16-QAM	RB1#0	21.93	-2.36	-4.51	17.42	0.055	7.00	Pass
			RB1#25	21.91	-2.36	-4.51	17.40	0.055	7.00	Pass
			RB1#49	22.38	-2.36	-4.51	17.87	0.061	7.00	Pass
			RB25#0	20.93	-2.36	-4.51	16.42	0.044	7.00	Pass
			RB25#13	21.12	-2.36	-4.51	16.61	0.046	7.00	Pass
			RB25#25	21.21	-2.36	-4.51	16.70	0.047	7.00	Pass
			RB50#0	21.12	-2.36	-4.51	16.61	0.046	7.00	Pass
	MCH	QPSK	RB1#0	23.31	-2.36	-4.51	18.80	0.076	7.00	Pass
			RB1#25	23.11	-2.36	-4.51	18.60	0.072	7.00	Pass
			RB1#49	23.43	-2.36	-4.51	18.92	0.078	7.00	Pass
			RB25#0	22.13	-2.36	-4.51	17.62	0.058	7.00	Pass
			RB25#13	22.18	-2.36	-4.51	17.67	0.058	7.00	Pass
			RB25#25	22.27	-2.36	-4.51	17.76	0.060	7.00	Pass
			RB50#0	22.21	-2.36	-4.51	17.70	0.059	7.00	Pass
		16-QAM	RB1#0	22.68	-2.36	-4.51	18.17	0.066	7.00	Pass
			RB1#25	22.53	-2.36	-4.51	18.02	0.063	7.00	Pass
			RB1#49	22.86	-2.36	-4.51	18.35	0.068	7.00	Pass
			RB25#0	21.25	-2.36	-4.51	16.74	0.047	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
			RB25#13	21.29	-2.36	-4.51	16.78	0.048	7.00	Pass
			RB25#25	21.34	-2.36	-4.51	16.83	0.048	7.00	Pass
			RB50#0	21.3	-2.36	-4.51	16.79	0.048	7.00	Pass
	HCH	QPSK	RB1#0	23.45	-2.36	-4.51	18.94	0.078	7.00	Pass
			RB1#25	23.06	-2.36	-4.51	18.55	0.072	7.00	Pass
			RB1#49	23.48	-2.36	-4.51	18.97	0.079	7.00	Pass
			RB25#0	22.12	-2.36	-4.51	17.61	0.058	7.00	Pass
			RB25#13	22.15	-2.36	-4.51	17.64	0.058	7.00	Pass
			RB25#25	22.21	-2.36	-4.51	17.70	0.059	7.00	Pass
			RB50#0	22.17	-2.36	-4.51	17.66	0.058	7.00	Pass
		16-QAM	RB1#0	22.39	-2.36	-4.51	17.88	0.061	7.00	Pass
			RB1#25	22.06	-2.36	-4.51	17.55	0.057	7.00	Pass
			RB1#49	22.47	-2.36	-4.51	17.96	0.063	7.00	Pass
			RB25#0	21.27	-2.36	-4.51	16.76	0.047	7.00	Pass
			RB25#13	21.25	-2.36	-4.51	16.74	0.047	7.00	Pass
			RB25#25	21.27	-2.36	-4.51	16.76	0.047	7.00	Pass
			RB50#0	21.22	-2.36	-4.51	16.71	0.047	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	21.11	1.78	22.89	0.195	2.00	Pass
			RB1#13	21.06	1.78	22.84	0.192	2.00	Pass
			RB1#24	20.98	1.78	22.76	0.189	2.00	Pass
			RB12#0	20.06	1.78	21.84	0.153	2.00	Pass
			RB12#6	20.05	1.78	21.83	0.152	2.00	Pass
			RB12#13	19.93	1.78	21.71	0.148	2.00	Pass
			RB25#0	20.04	1.78	21.82	0.152	2.00	Pass
		16-QAM	RB1#0	20.58	1.78	22.36	0.172	2.00	Pass
			RB1#13	20.57	1.78	22.35	0.172	2.00	Pass
			RB1#24	20.48	1.78	22.26	0.168	2.00	Pass
			RB12#0	19.2	1.78	20.98	0.125	2.00	Pass
			RB12#6	19.2	1.78	20.98	0.125	2.00	Pass
			RB12#13	19.08	1.78	20.86	0.122	2.00	Pass
			RB25#0	19.13	1.78	20.91	0.123	2.00	Pass
	MCH	QPSK	RB1#0	21.2	1.78	22.98	0.199	2.00	Pass
			RB1#13	21.1	1.78	22.88	0.194	2.00	Pass
			RB1#24	21.05	1.78	22.83	0.192	2.00	Pass
			RB12#0	20.18	1.78	21.96	0.157	2.00	Pass
			RB12#6	20.17	1.78	21.95	0.157	2.00	Pass
			RB12#13	20.07	1.78	21.85	0.153	2.00	Pass
			RB25#0	20.13	1.78	21.91	0.155	2.00	Pass
		16-QAM	RB1#0	20.31	1.78	22.09	0.162	2.00	Pass
			RB1#13	20.28	1.78	22.06	0.161	2.00	Pass
			RB1#24	20.17	1.78	21.95	0.157	2.00	Pass
			RB12#0	19.22	1.78	21.00	0.126	2.00	Pass
			RB12#6	19.17	1.78	20.95	0.124	2.00	Pass
			RB12#13	19.14	1.78	20.92	0.124	2.00	Pass
			RB25#0	19.08	1.78	20.86	0.122	2.00	Pass
	HCH	QPSK	RB1#0	21	1.78	22.78	0.190	2.00	Pass
			RB1#13	20.87	1.78	22.65	0.184	2.00	Pass
			RB1#24	20.78	1.78	22.56	0.180	2.00	Pass
			RB12#0	19.87	1.78	21.65	0.146	2.00	Pass
			RB12#6	19.82	1.78	21.60	0.145	2.00	Pass
			RB12#13	19.8	1.78	21.58	0.144	2.00	Pass
			RB25#0	19.85	1.78	21.63	0.146	2.00	Pass
		16-QAM	RB1#0	20.1	1.78	21.88	0.154	2.00	Pass
			RB1#13	20.02	1.78	21.80	0.151	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	19.96	1.78	21.74	0.149	2.00	Pass
			RB12#0	18.94	1.78	20.72	0.118	2.00	Pass
			RB12#6	18.89	1.78	20.67	0.117	2.00	Pass
			RB12#13	18.84	1.78	20.62	0.115	2.00	Pass
			RB25#0	18.81	1.78	20.59	0.115	2.00	Pass
	LCH	QPSK	RB1#0	21.22	1.78	23.00	0.200	2.00	Pass
			RB1#25	20.92	1.78	22.70	0.186	2.00	Pass
			RB1#49	21.07	1.78	22.85	0.193	2.00	Pass
			RB25#0	20.09	1.78	21.87	0.154	2.00	Pass
			RB25#13	19.98	1.78	21.76	0.150	2.00	Pass
			RB25#25	19.97	1.78	21.75	0.150	2.00	Pass
			RB50#0	20.01	1.78	21.79	0.151	2.00	Pass
		16-QAM	RB1#0	20.2	1.78	21.98	0.158	2.00	Pass
			RB1#25	19.82	1.78	21.60	0.145	2.00	Pass
			RB1#49	20.03	1.78	21.81	0.152	2.00	Pass
			RB25#0	19.11	1.78	20.89	0.123	2.00	Pass
			RB25#13	19	1.78	20.78	0.120	2.00	Pass
			RB25#25	19.01	1.78	20.79	0.120	2.00	Pass
			RB50#0	18.95	1.78	20.73	0.118	2.00	Pass
	MCH	QPSK	RB1#0	21.46	1.78	23.24	0.211	2.00	Pass
			RB1#25	21.08	1.78	22.86	0.193	2.00	Pass
			RB1#49	21.2	1.78	22.98	0.199	2.00	Pass
			RB25#0	20.14	1.78	21.92	0.156	2.00	Pass
			RB25#13	20.08	1.78	21.86	0.153	2.00	Pass
			RB25#25	20.06	1.78	21.84	0.153	2.00	Pass
			RB50#0	20.11	1.78	21.89	0.155	2.00	Pass
		16-QAM	RB1#0	20.79	1.78	22.57	0.181	2.00	Pass
			RB1#25	20.46	1.78	22.24	0.167	2.00	Pass
			RB1#49	20.56	1.78	22.34	0.171	2.00	Pass
			RB25#0	19.18	1.78	20.96	0.125	2.00	Pass
			RB25#13	19.11	1.78	20.89	0.123	2.00	Pass
			RB25#25	19.04	1.78	20.82	0.121	2.00	Pass
			RB50#0	19.16	1.78	20.94	0.124	2.00	Pass
	HCH	QPSK	RB1#0	21.14	1.78	22.92	0.196	2.00	Pass
			RB1#25	20.82	1.78	22.60	0.182	2.00	Pass
			RB1#49	20.87	1.78	22.65	0.184	2.00	Pass
			RB25#0	19.94	1.78	21.72	0.149	2.00	Pass
			RB25#13	19.88	1.78	21.66	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									
			RB25#25	19.82	1.78	21.60	0.145	2.00	Pass
			RB50#0	19.89	1.78	21.67	0.147	2.00	Pass
		16-QAM	RB1#0	20.2	1.78	21.98	0.158	2.00	Pass
			RB1#25	19.83	1.78	21.61	0.145	2.00	Pass
			RB1#49	19.92	1.78	21.70	0.148	2.00	Pass
			RB25#0	19.02	1.78	20.80	0.120	2.00	Pass
			RB25#13	18.9	1.78	20.68	0.117	2.00	Pass
			RB25#25	18.87	1.78	20.65	0.116	2.00	Pass
			RB50#0	18.89	1.78	20.67	0.117	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	21	1.78	22.78	0.190	2.00	Pass
			RB1#38	20.87	1.78	22.65	0.184	2.00	Pass
			RB1#74	20.84	1.78	22.62	0.183	2.00	Pass
			RB36#0	19.95	1.78	21.73	0.149	2.00	Pass
			RB36#19	20.01	1.78	21.79	0.151	2.00	Pass
			RB36#39	19.91	1.78	21.69	0.148	2.00	Pass
			RB75#0	19.97	1.78	21.75	0.150	2.00	Pass
		16-QAM	RB1#0	19.95	1.78	21.73	0.149	2.00	Pass
			RB1#38	19.87	1.78	21.65	0.146	2.00	Pass
			RB1#74	19.75	1.78	21.53	0.142	2.00	Pass
			RB36#0	19	1.78	20.78	0.120	2.00	Pass
			RB36#19	19.02	1.78	20.80	0.120	2.00	Pass
			RB36#39	18.93	1.78	20.71	0.118	2.00	Pass
			RB75#0	19	1.78	20.78	0.120	2.00	Pass
	MCH	QPSK	RB1#0	21.17	1.78	22.95	0.197	2.00	Pass
			RB1#38	21.02	1.78	22.80	0.191	2.00	Pass
			RB1#74	20.95	1.78	22.73	0.187	2.00	Pass
			RB36#0	20.17	1.78	21.95	0.157	2.00	Pass
			RB36#19	20.11	1.78	21.89	0.155	2.00	Pass
			RB36#39	20.1	1.78	21.88	0.154	2.00	Pass
			RB75#0	20.04	1.78	21.82	0.152	2.00	Pass
		16-QAM	RB1#0	20.53	1.78	22.31	0.170	2.00	Pass
			RB1#38	20.4	1.78	22.18	0.165	2.00	Pass
			RB1#74	20.3	1.78	22.08	0.161	2.00	Pass
			RB36#0	19.16	1.78	20.94	0.124	2.00	Pass
			RB36#19	19.1	1.78	20.88	0.122	2.00	Pass
			RB36#39	19.09	1.78	20.87	0.122	2.00	Pass
			RB75#0	19.03	1.78	20.81	0.121	2.00	Pass
	HCH	QPSK	RB1#0	21.01	1.78	22.79	0.190	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#38	20.8	1.78	22.58	0.181	2.00	Pass
			RB1#74	20.69	1.78	22.47	0.177	2.00	Pass
			RB36#0	19.95	1.78	21.73	0.149	2.00	Pass
			RB36#19	19.89	1.78	21.67	0.147	2.00	Pass
			RB36#39	19.81	1.78	21.59	0.144	2.00	Pass
			RB75#0	19.89	1.78	21.67	0.147	2.00	Pass
		16-QAM	RB1#0	20.47	1.78	22.25	0.168	2.00	Pass
			RB1#38	20.29	1.78	22.07	0.161	2.00	Pass
			RB1#74	20.15	1.78	21.93	0.156	2.00	Pass
			RB36#0	18.94	1.78	20.72	0.118	2.00	Pass
			RB36#19	18.94	1.78	20.72	0.118	2.00	Pass
			RB36#39	18.82	1.78	20.60	0.115	2.00	Pass
			RB75#0	18.93	1.78	20.71	0.118	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	21.16	1.78	22.94	0.197	2.00	Pass
			RB1#50	21.05	1.78	22.83	0.192	2.00	Pass
			RB1#99	21.08	1.78	22.86	0.193	2.00	Pass
			RB50#0	20.06	1.78	21.84	0.153	2.00	Pass
			RB50#25	20.07	1.78	21.85	0.153	2.00	Pass
			RB50#50	20.03	1.78	21.81	0.152	2.00	Pass
			RB100#0	20.1	1.78	21.88	0.154	2.00	Pass
		16-QAM	RB1#0	20.62	1.78	22.40	0.174	2.00	Pass
			RB1#50	20.55	1.78	22.33	0.171	2.00	Pass
			RB1#99	20.55	1.78	22.33	0.171	2.00	Pass
			RB50#0	19.12	1.78	20.90	0.123	2.00	Pass
			RB50#25	19.09	1.78	20.87	0.122	2.00	Pass
			RB50#50	19.08	1.78	20.86	0.122	2.00	Pass
			RB100#0	19.13	1.78	20.91	0.123	2.00	Pass
	MCH	QPSK	RB1#0	21.29	1.78	23.07	0.203	2.00	Pass
			RB1#50	21.13	1.78	22.91	0.195	2.00	Pass
			RB1#99	21.14	1.78	22.92	0.196	2.00	Pass
			RB50#0	20.24	1.78	22.02	0.159	2.00	Pass
			RB50#25	20.15	1.78	21.93	0.156	2.00	Pass
			RB50#50	19.99	1.78	21.77	0.150	2.00	Pass
			RB100#0	20.11	1.78	21.89	0.155	2.00	Pass
		16-QAM	RB1#0	20.73	1.78	22.51	0.178	2.00	Pass
			RB1#50	20.6	1.78	22.38	0.173	2.00	Pass
			RB1#99	20.6	1.78	22.38	0.173	2.00	Pass
			RB50#0	19.22	1.78	21.00	0.126	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									
			RB50#25	19.14	1.78	20.92	0.124	2.00	Pass
			RB50#50	18.97	1.78	20.75	0.119	2.00	Pass
			RB100#0	19.09	1.78	20.87	0.122	2.00	Pass
	HCH	QPSK	RB1#0	21.12	1.78	22.90	0.195	2.00	Pass
			RB1#50	20.91	1.78	22.69	0.186	2.00	Pass
			RB1#99	20.79	1.78	22.57	0.181	2.00	Pass
			RB50#0	20.01	1.78	21.79	0.151	2.00	Pass
			RB50#25	19.95	1.78	21.73	0.149	2.00	Pass
			RB50#50	19.86	1.78	21.64	0.146	2.00	Pass
			RB100#0	19.98	1.78	21.76	0.150	2.00	Pass
		16-QAM	RB1#0	20.54	1.78	22.32	0.171	2.00	Pass
			RB1#50	20.3	1.78	22.08	0.161	2.00	Pass
			RB1#99	20.21	1.78	21.99	0.158	2.00	Pass
			RB50#0	19.03	1.78	20.81	0.121	2.00	Pass
			RB50#25	18.95	1.78	20.73	0.118	2.00	Pass
			RB50#50	18.88	1.78	20.66	0.116	2.00	Pass
			RB100#0	18.99	1.78	20.77	0.119	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 BAND38									
5 MHz	LCH	QPSK	RB1#0	20.33	1.6	21.93	0.156	2.00	Pass
			RB1#13	20.22	1.6	21.82	0.152	2.00	Pass
			RB1#24	20.16	1.6	21.76	0.150	2.00	Pass
			RB12#0	19.26	1.6	20.86	0.122	2.00	Pass
			RB12#6	19.14	1.6	20.74	0.119	2.00	Pass
			RB12#13	19.13	1.6	20.73	0.118	2.00	Pass
			RB25#0	19.22	1.6	20.82	0.121	2.00	Pass
		16-QAM	RB1#0	19.72	1.6	21.32	0.136	2.00	Pass
			RB1#13	19.62	1.6	21.22	0.132	2.00	Pass
			RB1#24	19.54	1.6	21.14	0.130	2.00	Pass
			RB12#0	18.36	1.6	19.96	0.099	2.00	Pass
			RB12#6	18.33	1.6	19.93	0.098	2.00	Pass
			RB12#13	18.22	1.6	19.82	0.096	2.00	Pass
			RB25#0	18.18	1.6	19.78	0.095	2.00	Pass
	MCH	QPSK	RB1#0	20.22	1.6	21.82	0.152	2.00	Pass
			RB1#13	20.19	1.6	21.79	0.151	2.00	Pass
			RB1#24	20.12	1.6	21.72	0.149	2.00	Pass
			RB12#0	19.13	1.6	20.73	0.118	2.00	Pass
			RB12#6	19.13	1.6	20.73	0.118	2.00	Pass
			RB12#13	19.09	1.6	20.69	0.117	2.00	Pass
			RB25#0	19.11	1.6	20.71	0.118	2.00	Pass
		16-QAM	RB1#0	19.44	1.6	21.04	0.127	2.00	Pass
			RB1#13	19.37	1.6	20.97	0.125	2.00	Pass
			RB1#24	19.38	1.6	20.98	0.125	2.00	Pass
			RB12#0	18.24	1.6	19.84	0.096	2.00	Pass
			RB12#6	18.17	1.6	19.77	0.095	2.00	Pass
			RB12#13	18.15	1.6	19.75	0.094	2.00	Pass
			RB25#0	18.11	1.6	19.71	0.094	2.00	Pass
	HCH	QPSK	RB1#0	20.27	1.6	21.87	0.154	2.00	Pass
			RB1#13	20.16	1.6	21.76	0.150	2.00	Pass
			RB1#24	20.08	1.6	21.68	0.147	2.00	Pass
			RB12#0	19.16	1.6	20.76	0.119	2.00	Pass
			RB12#6	19.12	1.6	20.72	0.118	2.00	Pass
			RB12#13	19.1	1.6	20.70	0.117	2.00	Pass
			RB25#0	19.18	1.6	20.78	0.120	2.00	Pass
		16-QAM	RB1#0	19.55	1.6	21.15	0.130	2.00	Pass
			RB1#13	19.5	1.6	21.10	0.129	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 BAND38									
10 MHz			RB1#24	19.42	1.6	21.02	0.126	2.00	Pass
			RB12#0	18.18	1.6	19.78	0.095	2.00	Pass
			RB12#6	18.14	1.6	19.74	0.094	2.00	Pass
			RB12#13	18.05	1.6	19.65	0.092	2.00	Pass
			RB25#0	18.15	1.6	19.75	0.094	2.00	Pass
	LCH	QPSK	RB1#0	20.42	1.6	22.02	0.159	2.00	Pass
			RB1#25	20.18	1.6	21.78	0.151	2.00	Pass
			RB1#49	20.39	1.6	21.99	0.158	2.00	Pass
			RB25#0	19.18	1.6	20.78	0.120	2.00	Pass
			RB25#13	19.11	1.6	20.71	0.118	2.00	Pass
			RB25#25	19.18	1.6	20.78	0.120	2.00	Pass
			RB50#0	19.15	1.6	20.75	0.119	2.00	Pass
		16-QAM	RB1#0	19.73	1.6	21.33	0.136	2.00	Pass
			RB1#25	19.47	1.6	21.07	0.128	2.00	Pass
			RB1#49	19.73	1.6	21.33	0.136	2.00	Pass
			RB25#0	18.22	1.6	19.82	0.096	2.00	Pass
			RB25#13	18.14	1.6	19.74	0.094	2.00	Pass
			RB25#25	18.21	1.6	19.81	0.096	2.00	Pass
			RB50#0	18.23	1.6	19.83	0.096	2.00	Pass
	MCH	QPSK	RB1#0	20.28	1.6	21.88	0.154	2.00	Pass
			RB1#25	20.09	1.6	21.69	0.148	2.00	Pass
			RB1#49	20.35	1.6	21.95	0.157	2.00	Pass
			RB25#0	19.11	1.6	20.71	0.118	2.00	Pass
			RB25#13	19.1	1.6	20.70	0.117	2.00	Pass
			RB25#25	19.15	1.6	20.75	0.119	2.00	Pass
			RB50#0	19.15	1.6	20.75	0.119	2.00	Pass
		16-QAM	RB1#0	19.52	1.6	21.12	0.129	2.00	Pass
			RB1#25	19.37	1.6	20.97	0.125	2.00	Pass
			RB1#49	19.69	1.6	21.29	0.135	2.00	Pass
			RB25#0	18.11	1.6	19.71	0.094	2.00	Pass
			RB25#13	18.12	1.6	19.72	0.094	2.00	Pass
			RB25#25	18.17	1.6	19.77	0.095	2.00	Pass
			RB50#0	18.13	1.6	19.73	0.094	2.00	Pass
	HCH	QPSK	RB1#0	20.37	1.6	21.97	0.157	2.00	Pass
			RB1#25	20.16	1.6	21.76	0.150	2.00	Pass
			RB1#49	20.38	1.6	21.98	0.158	2.00	Pass
			RB25#0	19.18	1.6	20.78	0.120	2.00	Pass
			RB25#13	19.13	1.6	20.73	0.118	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 BAND38									
		16-QAM	RB25#25	19.16	1.6	20.76	0.119	2.00	Pass
			RB50#0	19.17	1.6	20.77	0.119	2.00	Pass
			RB1#0	19.78	1.6	21.38	0.137	2.00	Pass
			RB1#25	19.58	1.6	21.18	0.131	2.00	Pass
			RB1#49	19.79	1.6	21.39	0.138	2.00	Pass
			RB25#0	18.16	1.6	19.76	0.095	2.00	Pass
			RB25#13	18.08	1.6	19.68	0.093	2.00	Pass
			RB25#25	18.1	1.6	19.70	0.093	2.00	Pass
			RB50#0	18.2	1.6	19.80	0.095	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	20.2	1.6	21.80	0.151	2.00	Pass
			RB1#38	20.09	1.6	21.69	0.148	2.00	Pass
			RB1#74	20.08	1.6	21.68	0.147	2.00	Pass
			RB36#0	19.13	1.6	20.73	0.118	2.00	Pass
			RB36#19	19.15	1.6	20.75	0.119	2.00	Pass
			RB36#39	19.11	1.6	20.71	0.118	2.00	Pass
			RB75#0	19.14	1.6	20.74	0.119	2.00	Pass
		16-QAM	RB1#0	19.43	1.6	21.03	0.127	2.00	Pass
			RB1#38	19.39	1.6	20.99	0.126	2.00	Pass
			RB1#74	19.33	1.6	20.93	0.124	2.00	Pass
			RB36#0	18.1	1.6	19.70	0.093	2.00	Pass
			RB36#19	18.13	1.6	19.73	0.094	2.00	Pass
			RB36#39	18.12	1.6	19.72	0.094	2.00	Pass
			RB75#0	18.14	1.6	19.74	0.094	2.00	Pass
	MCH	QPSK	RB1#0	20.11	1.6	21.71	0.148	2.00	Pass
			RB1#38	20.14	1.6	21.74	0.149	2.00	Pass
			RB1#74	20.23	1.6	21.83	0.152	2.00	Pass
			RB36#0	19.11	1.6	20.71	0.118	2.00	Pass
			RB36#19	19.17	1.6	20.77	0.119	2.00	Pass
			RB36#39	19.19	1.6	20.79	0.120	2.00	Pass
			RB75#0	19.15	1.6	20.75	0.119	2.00	Pass
		16-QAM	RB1#0	19.5	1.6	21.10	0.129	2.00	Pass
			RB1#38	19.63	1.6	21.23	0.133	2.00	Pass
			RB1#74	19.66	1.6	21.26	0.134	2.00	Pass
			RB36#0	18.09	1.6	19.69	0.093	2.00	Pass
			RB36#19	18.15	1.6	19.75	0.094	2.00	Pass
			RB36#39	18.15	1.6	19.75	0.094	2.00	Pass
			RB75#0	18.14	1.6	19.74	0.094	2.00	Pass
	HCH	QPSK	RB1#0	20.12	1.6	21.72	0.149	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 BAND38									
			RB1#38	20.13	1.6	21.73	0.149	2.00	Pass
			RB1#74	20.13	1.6	21.73	0.149	2.00	Pass
			RB36#0	19.11	1.6	20.71	0.118	2.00	Pass
			RB36#19	19.15	1.6	20.75	0.119	2.00	Pass
			RB36#39	19.1	1.6	20.70	0.117	2.00	Pass
			RB75#0	19.1	1.6	20.70	0.117	2.00	Pass
		16-QAM	RB1#0	19.41	1.6	21.01	0.126	2.00	Pass
			RB1#38	19.42	1.6	21.02	0.126	2.00	Pass
			RB1#74	19.38	1.6	20.98	0.125	2.00	Pass
			RB36#0	18.14	1.6	19.74	0.094	2.00	Pass
			RB36#19	18.18	1.6	19.78	0.095	2.00	Pass
			RB36#39	18.15	1.6	19.75	0.094	2.00	Pass
			RB75#0	18.15	1.6	19.75	0.094	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	20.26	1.6	21.86	0.153	2.00	Pass
			RB1#50	20.2	1.6	21.80	0.151	2.00	Pass
			RB1#99	20.3	1.6	21.90	0.155	2.00	Pass
			RB50#0	19.19	1.6	20.79	0.120	2.00	Pass
			RB50#25	19.2	1.6	20.80	0.120	2.00	Pass
			RB50#50	19.15	1.6	20.75	0.119	2.00	Pass
			RB100#0	19.23	1.6	20.83	0.121	2.00	Pass
		16-QAM	RB1#0	19.6	1.6	21.20	0.132	2.00	Pass
			RB1#50	19.55	1.6	21.15	0.130	2.00	Pass
			RB1#99	19.62	1.6	21.22	0.132	2.00	Pass
			RB50#0	18.13	1.6	19.73	0.094	2.00	Pass
			RB50#25	18.17	1.6	19.77	0.095	2.00	Pass
			RB50#50	18.13	1.6	19.73	0.094	2.00	Pass
			RB100#0	18.19	1.6	19.79	0.095	2.00	Pass
	MCH	QPSK	RB1#0	20.19	1.6	21.79	0.151	2.00	Pass
			RB1#50	20.21	1.6	21.81	0.152	2.00	Pass
			RB1#99	20.34	1.6	21.94	0.156	2.00	Pass
			RB50#0	19.19	1.6	20.79	0.120	2.00	Pass
			RB50#25	19.24	1.6	20.84	0.121	2.00	Pass
			RB50#50	19.29	1.6	20.89	0.123	2.00	Pass
			RB100#0	19.24	1.6	20.84	0.121	2.00	Pass
		16-QAM	RB1#0	19.37	1.6	20.97	0.125	2.00	Pass
			RB1#50	19.39	1.6	20.99	0.126	2.00	Pass
			RB1#99	19.59	1.6	21.19	0.132	2.00	Pass
			RB50#0	18.16	1.6	19.76	0.095	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 BAND38									
			RB50#25	18.24	1.6	19.84	0.096	2.00	Pass
			RB50#50	18.26	1.6	19.86	0.097	2.00	Pass
			RB100#0	18.23	1.6	19.83	0.096	2.00	Pass
	HCH	QPSK	RB1#0	20.39	1.6	21.99	0.158	2.00	Pass
			RB1#50	20.32	1.6	21.92	0.156	2.00	Pass
			RB1#99	20.33	1.6	21.93	0.156	2.00	Pass
			RB50#0	19.18	1.6	20.78	0.120	2.00	Pass
			RB50#25	19.18	1.6	20.78	0.120	2.00	Pass
			RB50#50	19.2	1.6	20.80	0.120	2.00	Pass
			RB100#0	19.21	1.6	20.81	0.121	2.00	Pass
		16-QAM	RB1#0	19.76	1.6	21.36	0.137	2.00	Pass
			RB1#50	19.65	1.6	21.25	0.133	2.00	Pass
			RB1#99	19.72	1.6	21.32	0.136	2.00	Pass
			RB50#0	18.22	1.6	19.82	0.096	2.00	Pass
			RB50#25	18.25	1.6	19.85	0.097	2.00	Pass
			RB50#50	18.24	1.6	19.84	0.096	2.00	Pass
			RB100#0	18.21	1.6	19.81	0.096	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 BAND41									
5 MHz	LCH	QPSK	RB1#0	23.19	1.6	24.79	0.301	2.00	Pass
			RB1#13	23.07	1.6	24.67	0.293	2.00	Pass
			RB1#24	23.04	1.6	24.64	0.291	2.00	Pass
			RB12#0	22.12	1.6	23.72	0.236	2.00	Pass
			RB12#6	22.03	1.6	23.63	0.231	2.00	Pass
			RB12#13	21.97	1.6	23.57	0.228	2.00	Pass
			RB25#0	22.02	1.6	23.62	0.230	2.00	Pass
		16-QAM	RB1#0	22.53	1.6	24.13	0.259	2.00	Pass
			RB1#13	22.45	1.6	24.05	0.254	2.00	Pass
			RB1#24	22.33	1.6	23.93	0.247	2.00	Pass
			RB12#0	21.22	1.6	22.82	0.191	2.00	Pass
			RB12#6	21.2	1.6	22.80	0.191	2.00	Pass
			RB12#13	21.11	1.6	22.71	0.187	2.00	Pass
			RB25#0	21	1.6	22.60	0.182	2.00	Pass
	MCH	QPSK	RB1#0	23.2	1.6	24.80	0.302	2.00	Pass
			RB1#13	23.01	1.6	24.61	0.289	2.00	Pass
			RB1#24	23.04	1.6	24.64	0.291	2.00	Pass
			RB12#0	22	1.6	23.60	0.229	2.00	Pass
			RB12#6	22.03	1.6	23.63	0.231	2.00	Pass
			RB12#13	22.07	1.6	23.67	0.233	2.00	Pass
			RB25#0	21.98	1.6	23.58	0.228	2.00	Pass
		16-QAM	RB1#0	22.36	1.6	23.96	0.249	2.00	Pass
			RB1#13	22.31	1.6	23.91	0.246	2.00	Pass
			RB1#24	22.27	1.6	23.87	0.244	2.00	Pass
			RB12#0	21.11	1.6	22.71	0.187	2.00	Pass
			RB12#6	21.16	1.6	22.76	0.189	2.00	Pass
			RB12#13	21.1	1.6	22.70	0.186	2.00	Pass
			RB25#0	21.05	1.6	22.65	0.184	2.00	Pass
	HCH	QPSK	RB1#0	23.33	1.6	24.93	0.311	2.00	Pass
			RB1#13	23.12	1.6	24.72	0.296	2.00	Pass
			RB1#24	23.13	1.6	24.73	0.297	2.00	Pass
			RB12#0	22.2	1.6	23.80	0.240	2.00	Pass
			RB12#6	22.15	1.6	23.75	0.237	2.00	Pass
			RB12#13	22.22	1.6	23.82	0.241	2.00	Pass
			RB25#0	22.19	1.6	23.79	0.239	2.00	Pass
		16-QAM	RB1#0	22.59	1.6	24.19	0.262	2.00	Pass
			RB1#13	22.41	1.6	24.01	0.252	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 BAND41									
10 MHz			RB1#24	22.36	1.6	23.96	0.249	2.00	Pass
			RB12#0	21.23	1.6	22.83	0.192	2.00	Pass
			RB12#6	21.07	1.6	22.67	0.185	2.00	Pass
			RB12#13	21.2	1.6	22.80	0.191	2.00	Pass
			RB25#0	21.14	1.6	22.74	0.188	2.00	Pass
	LCH	QPSK	RB1#0	23.17	1.6	24.77	0.300	2.00	Pass
			RB1#25	22.89	1.6	24.49	0.281	2.00	Pass
			RB1#49	23.12	1.6	24.72	0.296	2.00	Pass
			RB25#0	22.05	1.6	23.65	0.232	2.00	Pass
			RB25#13	21.95	1.6	23.55	0.226	2.00	Pass
			RB25#25	21.98	1.6	23.58	0.228	2.00	Pass
			RB50#0	21.98	1.6	23.58	0.228	2.00	Pass
		16-QAM	RB1#0	22.43	1.6	24.03	0.253	2.00	Pass
			RB1#25	22.17	1.6	23.77	0.238	2.00	Pass
			RB1#49	22.37	1.6	23.97	0.249	2.00	Pass
			RB25#0	21.04	1.6	22.64	0.184	2.00	Pass
			RB25#13	21	1.6	22.60	0.182	2.00	Pass
			RB25#25	20.97	1.6	22.57	0.181	2.00	Pass
			RB50#0	21	1.6	22.60	0.182	2.00	Pass
	MCH	QPSK	RB1#0	23.23	1.6	24.83	0.304	2.00	Pass
			RB1#25	22.99	1.6	24.59	0.288	2.00	Pass
			RB1#49	23.22	1.6	24.82	0.303	2.00	Pass
			RB25#0	22.09	1.6	23.69	0.234	2.00	Pass
			RB25#13	22.07	1.6	23.67	0.233	2.00	Pass
			RB25#25	22.1	1.6	23.70	0.234	2.00	Pass
			RB50#0	22.04	1.6	23.64	0.231	2.00	Pass
		16-QAM	RB1#0	22.7	1.6	24.30	0.269	2.00	Pass
			RB1#25	22.5	1.6	24.10	0.257	2.00	Pass
			RB1#49	22.73	1.6	24.33	0.271	2.00	Pass
			RB25#0	21.1	1.6	22.70	0.186	2.00	Pass
			RB25#13	21.05	1.6	22.65	0.184	2.00	Pass
			RB25#25	21.09	1.6	22.69	0.186	2.00	Pass
			RB50#0	21.08	1.6	22.68	0.185	2.00	Pass
	HCH	QPSK	RB1#0	23.39	1.6	24.99	0.316	2.00	Pass
			RB1#25	23.16	1.6	24.76	0.299	2.00	Pass
			RB1#49	23.38	1.6	24.98	0.315	2.00	Pass
			RB25#0	22.26	1.6	23.86	0.243	2.00	Pass
			RB25#13	22.23	1.6	23.83	0.242	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 BAND41									
		16-QAM	RB25#25	22.18	1.6	23.78	0.239	2.00	Pass
			RB50#0	22.21	1.6	23.81	0.240	2.00	Pass
			RB1#0	22.73	1.6	24.33	0.271	2.00	Pass
			RB1#25	22.54	1.6	24.14	0.259	2.00	Pass
			RB1#49	22.74	1.6	24.34	0.272	2.00	Pass
			RB25#0	21.22	1.6	22.82	0.191	2.00	Pass
			RB25#13	21.19	1.6	22.79	0.190	2.00	Pass
			RB25#25	21.15	1.6	22.75	0.188	2.00	Pass
15 MHz	LCH	QPSK	RB50#0	21.25	1.6	22.85	0.193	2.00	Pass
			RB1#0	23.24	1.6	24.84	0.305	2.00	Pass
			RB1#38	22.83	1.6	24.43	0.277	2.00	Pass
			RB1#74	23.1	1.6	24.70	0.295	2.00	Pass
			RB36#0	22.01	1.6	23.61	0.230	2.00	Pass
			RB36#19	21.95	1.6	23.55	0.226	2.00	Pass
			RB36#39	21.93	1.6	23.53	0.225	2.00	Pass
			RB75#0	22.01	1.6	23.61	0.230	2.00	Pass
		16-QAM	RB1#0	22.48	1.6	24.08	0.256	2.00	Pass
			RB1#38	22.09	1.6	23.69	0.234	2.00	Pass
			RB1#74	22.35	1.6	23.95	0.248	2.00	Pass
			RB36#0	21.04	1.6	22.64	0.184	2.00	Pass
			RB36#19	20.95	1.6	22.55	0.180	2.00	Pass
			RB36#39	20.94	1.6	22.54	0.179	2.00	Pass
			RB75#0	21.06	1.6	22.66	0.185	2.00	Pass
	MCH	QPSK	RB1#0	23.28	1.6	24.88	0.308	2.00	Pass
			RB1#38	22.94	1.6	24.54	0.284	2.00	Pass
			RB1#74	23.1	1.6	24.70	0.295	2.00	Pass
			RB36#0	22.19	1.6	23.79	0.239	2.00	Pass
			RB36#19	22.02	1.6	23.62	0.230	2.00	Pass
			RB36#39	22.08	1.6	23.68	0.233	2.00	Pass
			RB75#0	22.15	1.6	23.75	0.237	2.00	Pass
		16-QAM	RB1#0	22.64	1.6	24.24	0.265	2.00	Pass
			RB1#38	22.33	1.6	23.93	0.247	2.00	Pass
			RB1#74	22.51	1.6	24.11	0.258	2.00	Pass
			RB36#0	21.17	1.6	22.77	0.189	2.00	Pass
			RB36#19	20.99	1.6	22.59	0.182	2.00	Pass
			RB36#39	21.06	1.6	22.66	0.185	2.00	Pass
			RB75#0	21.12	1.6	22.72	0.187	2.00	Pass
	HCH	QPSK	RB1#0	23.47	1.6	25.07	0.321	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 BAND41									
			RB1#38	23.21	1.6	24.81	0.303	2.00	Pass
			RB1#74	23.38	1.6	24.98	0.315	2.00	Pass
			RB36#0	22.41	1.6	24.01	0.252	2.00	Pass
			RB36#19	22.27	1.6	23.87	0.244	2.00	Pass
			RB36#39	22.3	1.6	23.90	0.245	2.00	Pass
			RB75#0	22.36	1.6	23.96	0.249	2.00	Pass
		16-QAM	RB1#0	22.76	1.6	24.36	0.273	2.00	Pass
			RB1#38	22.49	1.6	24.09	0.256	2.00	Pass
			RB1#74	22.69	1.6	24.29	0.269	2.00	Pass
			RB36#0	21.46	1.6	23.06	0.202	2.00	Pass
			RB36#19	21.3	1.6	22.90	0.195	2.00	Pass
			RB36#39	21.36	1.6	22.96	0.198	2.00	Pass
			RB75#0	21.35	1.6	22.95	0.197	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	23.03	1.6	24.63	0.290	2.00	Pass
			RB1#50	22.82	1.6	24.42	0.277	2.00	Pass
			RB1#99	23.11	1.6	24.71	0.296	2.00	Pass
			RB50#0	22.06	1.6	23.66	0.232	2.00	Pass
			RB50#25	21.96	1.6	23.56	0.227	2.00	Pass
			RB50#50	22.06	1.6	23.66	0.232	2.00	Pass
			RB100#0	22.03	1.6	23.63	0.231	2.00	Pass
		16-QAM	RB1#0	22.36	1.6	23.96	0.249	2.00	Pass
			RB1#50	22.15	1.6	23.75	0.237	2.00	Pass
			RB1#99	22.4	1.6	24.00	0.251	2.00	Pass
			RB50#0	21.06	1.6	22.66	0.185	2.00	Pass
			RB50#25	20.92	1.6	22.52	0.179	2.00	Pass
			RB50#50	21.1	1.6	22.70	0.186	2.00	Pass
			RB100#0	21.05	1.6	22.65	0.184	2.00	Pass
	MCH	QPSK	RB1#0	23.01	1.6	24.61	0.289	2.00	Pass
			RB1#50	22.95	1.6	24.55	0.285	2.00	Pass
			RB1#99	22.98	1.6	24.58	0.287	2.00	Pass
			RB50#0	22.14	1.6	23.74	0.237	2.00	Pass
			RB50#25	21.97	1.6	23.57	0.228	2.00	Pass
			RB50#50	22.02	1.6	23.62	0.230	2.00	Pass
			RB100#0	22.11	1.6	23.71	0.235	2.00	Pass
		16-QAM	RB1#0	22.14	1.6	23.74	0.237	2.00	Pass
			RB1#50	22.02	1.6	23.62	0.230	2.00	Pass
			RB1#99	22.09	1.6	23.69	0.234	2.00	Pass
			RB50#0	21.21	1.6	22.81	0.191	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 BAND41									
			RB50#25	21.03	1.6	22.63	0.183	2.00	Pass
			RB50#50	21.01	1.6	22.61	0.182	2.00	Pass
			RB100#0	21.17	1.6	22.77	0.189	2.00	Pass
	HCH	QPSK	RB1#0	23.28	1.6	24.88	0.308	2.00	Pass
			RB1#50	23.3	1.6	24.90	0.309	2.00	Pass
			RB1#99	23.35	1.6	24.95	0.313	2.00	Pass
			RB50#0	22.33	1.6	23.93	0.247	2.00	Pass
			RB50#25	22.32	1.6	23.92	0.247	2.00	Pass
			RB50#50	22.31	1.6	23.91	0.246	2.00	Pass
			RB100#0	22.41	1.6	24.01	0.252	2.00	Pass
		16-QAM	RB1#0	22.59	1.6	24.19	0.262	2.00	Pass
			RB1#50	22.55	1.6	24.15	0.260	2.00	Pass
			RB1#99	22.71	1.6	24.31	0.270	2.00	Pass
			RB50#0	21.42	1.6	23.02	0.200	2.00	Pass
			RB50#25	21.33	1.6	22.93	0.196	2.00	Pass
			RB50#50	21.3	1.6	22.90	0.195	2.00	Pass
			RB100#0	21.34	1.6	22.94	0.197	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 GSM, 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-SZ2270322-501 Data Part 1.pdf”.

CDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
CDMA BC0	LCH	4.31	13	1.1	Pass
	MCH	4.31	13	2.1	Pass
	HCH	4.12	13	3.1	Pass
EVDO BC0	LCH	4.83	13	4.1	Pass
	MCH	4.92	13	5.1	Pass
	HCH	4.59	13	6.1	Pass

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
Band 2	LCH	2.95	13	7.1	Pass
	MCH	2.95	13	7.2	Pass
	HCH	2.91	13	7.3	Pass
Band 5	LCH	2.86	13	8.1	Pass
	MCH	2.86	13	8.2	Pass
	HCH	2.86	13	8.3	Pass

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 5	10 MHz	LCH	QPSK	RB1#0	5.25	13	9.1	Pass
				RB50#0	5.58	13	9.2	Pass
			16-QAM	RB1#0	6.14	13	9.3	Pass
				RB50#0	6.23	13	9.4	Pass
		MCH	QPSK	RB1#0	5.30	13	9.5	Pass
				RB50#0	5.53	13	9.6	Pass
			16-QAM	RB1#0	6.23	13	9.7	Pass
				RB50#0	6.28	13	9.8	Pass
		HCH	QPSK	RB1#0	5.06	13	9.9	Pass
				RB50#0	5.53	13	9.10	Pass
			16-QAM	RB1#0	5.67	13	9.11	Pass
				RB50#0	6.28	13	9.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	4.59	13	10.1	Pass
				RB100#0	5.30	13	10.2	Pass
			16-QAM	RB1#0	5.16	13	10.3	Pass
				RB100#0	6.05	13	10.4	Pass
		MCH	QPSK	RB1#0	4.55	13	10.5	Pass
				RB100#0	5.30	13	10.6	Pass
			16-QAM	RB1#0	5.53	13	10.7	Pass
				RB100#0	6	13	10.8	Pass
		HCH	QPSK	RB1#0	4.36	13	10.9	Pass
				RB100#0	5.16	13	10.10	Pass
			16-QAM	RB1#0	5.39	13	10.11	Pass
				RB100#0	5.91	13	10.12	Pass
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	8.91	13	11.1	Pass
				RB100#0	9.05	13	11.2	Pass
			16-QAM	RB1#0	9.56	13	11.3	Pass
				RB100#0	9.7	13	11.4	Pass
		MCH	QPSK	RB1#0	8.58	13	11.5	Pass
				RB100#0	9	13	11.6	Pass
			16-QAM	RB1#0	9.23	13	11.7	Pass
				RB100#0	9.7	13	11.8	Pass
		HCH	QPSK	RB1#0	8.72	13	11.9	Pass
				RB100#0	9	13	11.10	Pass
			16-QAM	RB1#0	9.37	13	11.11	Pass
				RB100#0	9.66	13	11.12	Pass
LTE Band 41	20 MHz	LCH	QPSK	RB1#0	8.62	13	12.1	Pass
				RB100#0	9	13	12.2	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	9.28	13	12.3	Pass
				RB100#0	9.7	13	12.4	Pass
		MCH	QPSK	RB1#0	8.62	13	12.5	Pass
				RB100#0	8.91	13	12.6	Pass
			16-QAM	RB1#0	9.28	13	12.7	Pass
				RB100#0	9.66	13	12.8	Pass
		HCH	QPSK	RB1#0	8.53	13	12.9	Pass
				RB100#0	8.95	13	12.10	Pass
			16-QAM	RB1#0	9.28	13	12.11	Pass
				RB100#0	9.61	13	12.12	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-SZ2270322-501 Data Part 2.pdf”.

GSM and WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
GSM 850	LCH	0.245	0.311	1.1
	MCH	0.245	0.313	1.2
	HCH	0.243	0.31	1.3
GSM 1900	LCH	0.245	0.306	2.1
	MCH	0.245	0.311	2.2
	HCH	0.245	0.31	2.3
EGPRS 850	LCH	0.245	0.306	3.1
	MCH	0.245	0.305	3.2
	HCH	0.245	0.3	3.3
EGPRS 1900	LCH	0.243	0.308	4.1
	MCH	0.245	0.306	4.2
	HCH	0.245	0.306	4.3
CDMA BC0	LCH	1.27193	1.423789	5.1
	MCH	1.272723	1.426502	6.1
	HCH	1.278815	1.434299	7.1
EVDO BC0	LCH	1.268815	1.423572	8.1
	MCH	1.269579	1.427479	9.1
	HCH	1.270526	1.429465	10.1
WCDMA Band 2	LCH	4.134	4.73	11.1
	MCH	4.135	4.731	11.2
	HCH	4.127	4.734	11.3
WCDMA Band 5	LCH	4.126	4.746	12.1
	MCH	4.128	4.743	12.2
	HCH	4.127	4.743	12.3

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 5	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.281	13.1
			16-QAM	RB6#0	1.091	1.288	13.2
		MCH	QPSK	RB6#0	1.089	1.307	13.3
			16-QAM	RB6#0	1.085	1.275	13.4
		HCH	QPSK	RB6#0	1.093	1.283	13.5
			16-QAM	RB6#0	1.09	1.286	13.6
	3 MHz	LCH	QPSK	RB15#0	2.704	2.986	13.7
			16-QAM	RB15#0	2.699	2.993	13.8
		MCH	QPSK	RB15#0	2.704	2.978	13.9
			16-QAM	RB15#0	2.699	2.997	13.10
		HCH	QPSK	RB15#0	2.707	2.987	13.11
			16-QAM	RB15#0	2.697	2.994	13.12
	5 MHz	LCH	QPSK	RB25#0	4.508	4.999	13.13
			16-QAM	RB25#0	4.499	4.987	13.14
		MCH	QPSK	RB25#0	4.493	4.987	13.15
			16-QAM	RB25#0	4.504	5.018	13.16
		HCH	QPSK	RB25#0	4.497	4.994	13.17
			16-QAM	RB25#0	4.507	5.016	13.18
	10 MHz	LCH	QPSK	RB50#0	8.988	10.018	13.19
			16-QAM	RB50#0	8.973	9.909	13.20
		MCH	QPSK	RB50#0	8.951	9.916	13.21
			16-QAM	RB50#0	8.944	9.877	13.22
		HCH	QPSK	RB50#0	8.97	9.9	13.23
			16-QAM	RB50#0	8.954	9.888	13.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 7	5 MHz	LCH	QPSK	RB25#0	4.509	4.997	14.1
			16-QAM	RB25#0	4.499	5.019	14.2
		MCH	QPSK	RB25#0	4.498	5.012	14.3
			16-QAM	RB25#0	4.503	5.025	14.4
		HCH	QPSK	RB25#0	4.49	4.961	14.5
			16-QAM	RB25#0	4.5	5.029	14.6
	10 MHz	LCH	QPSK	RB50#0	8.976	9.982	14.7
			16-QAM	RB50#0	8.965	9.838	14.8
		MCH	QPSK	RB50#0	8.944	9.833	14.9
			16-QAM	RB50#0	8.957	9.846	14.10
		HCH	QPSK	RB50#0	8.965	9.889	14.11
			16-QAM	RB50#0	8.965	9.935	14.12
	15 MHz	LCH	QPSK	RB75#0	13.453	14.83	14.13
			16-QAM	RB75#0	13.467	14.706	14.14
		MCH	QPSK	RB75#0	13.43	14.691	14.15
			16-QAM	RB75#0	13.464	14.775	14.16
		HCH	QPSK	RB75#0	13.427	14.808	14.17
			16-QAM	RB75#0	13.454	14.808	14.18
	20 MHz	LCH	QPSK	RB100#0	17.92	19.491	14.19
			16-QAM	RB100#0	17.929	19.422	14.20
		MCH	QPSK	RB100#0	17.935	19.531	14.21
			16-QAM	RB100#0	17.919	19.635	14.22
		HCH	QPSK	RB100#0	17.896	19.578	14.23
			16-QAM	RB100#0	17.886	19.461	14.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 38	5 MHz	LCH	QPSK	RB25#0	4.507	5.178	15.1
			16-QAM	RB25#0	4.506	5.073	15.2
		MCH	QPSK	RB25#0	4.509	5.012	15.3
			16-QAM	RB25#0	4.495	5.013	15.4
		HCH	QPSK	RB25#0	4.5	5.269	15.5
			16-QAM	RB25#0	4.504	5.025	15.6
	10 MHz	LCH	QPSK	RB50#0	8.993	9.956	15.7
			16-QAM	RB50#0	8.974	10.193	15.8
		MCH	QPSK	RB50#0	8.982	9.999	15.9
			16-QAM	RB50#0	8.982	9.863	15.10
		HCH	QPSK	RB50#0	8.978	10.009	15.11
			16-QAM	RB50#0	8.937	9.865	15.12
	15 MHz	LCH	QPSK	RB75#0	13.436	15.178	15.13
			16-QAM	RB75#0	13.499	14.91	15.14
		MCH	QPSK	RB75#0	13.495	14.933	15.15
			16-QAM	RB75#0	13.473	15.008	15.16
		HCH	QPSK	RB75#0	13.427	14.768	15.17
			16-QAM	RB75#0	13.514	15.087	15.18
	20 MHz	LCH	QPSK	RB100#0	17.961	20.169	15.19
			16-QAM	RB100#0	17.957	20.787	15.20
		MCH	QPSK	RB100#0	18.001	20.258	15.21
			16-QAM	RB100#0	17.942	19.846	15.22
		HCH	QPSK	RB100#0	17.919	19.701	15.23
			16-QAM	RB100#0	17.943	19.936	15.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 41	5 MHz	LCH	QPSK	RB25#0	4.501	5.007	16.1
			16-QAM	RB25#0	4.496	5.041	16.2
		MCH	QPSK	RB25#0	4.503	5.276	16.3
			16-QAM	RB25#0	4.505	5.026	16.4
		HCH	QPSK	RB25#0	4.503	5.127	16.5
			16-QAM	RB25#0	4.507	5.092	16.6
	10 MHz	LCH	QPSK	RB50#0	8.975	9.981	16.7
			16-QAM	RB50#0	8.98	9.842	16.8
		MCH	QPSK	RB50#0	8.963	10.056	16.9
			16-QAM	RB50#0	8.941	9.849	16.10
		HCH	QPSK	RB50#0	8.994	9.902	16.11
			16-QAM	RB50#0	8.977	10.121	16.12
	15 MHz	LCH	QPSK	RB75#0	13.495	15.116	16.13
			16-QAM	RB75#0	13.477	15.135	16.14
		MCH	QPSK	RB75#0	13.429	14.767	16.15
			16-QAM	RB75#0	13.51	15.09	16.16
		HCH	QPSK	RB75#0	13.421	15.118	16.17
			16-QAM	RB75#0	13.494	14.935	16.18
	20 MHz	LCH	QPSK	RB100#0	17.992	20.156	16.19
			16-QAM	RB100#0	17.937	19.722	16.20
		MCH	QPSK	RB100#0	17.926	19.713	16.21
			16-QAM	RB100#0	17.955	19.861	16.22
		HCH	QPSK	RB100#0	17.97	20.312	16.23
			16-QAM	RB100#0	17.937	19.911	16.24

A.4 Frequency Stability

GSM 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)	
3.85	-30	11.95	±2060.5	16.21	±2091.5	10.43	±2122	Pass
	-20	10.91		13.08		13.11		
	-10	12.3		11.53		13.01		
	0	13.01		14.27		9.46		
	10	10.85		13.2		15.34		
	20	9.01		15.72		14.3		
	25	9.88		12.66		13.3		
	30	9.78		13.27		12.46		
	40	11.59		15.76		15.43		
	50	10.27		13.5		10.72		
4.4	25	9.33		11.46		12.07		
3.4	25	10.91		17.98		12.2		

GSM 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)	
3.85	-30	30.74	±4625.5	22.63	±4700.0	26.7	±4774.5	Pass
	-20	30.8		16.85		24.67		
	-10	30.74		12.75		25.31		
	0	28.86		15.37		20.86		
	10	34.38		21.24		18.5		
	20	29.57		27.28		22.24		
	25	34.19		20.66		23.54		
	30	30.19		16.92		22.76		
	40	26.02		22.41		22.86		
	50	38.71		19.27		24.02		
4.4	25	30.64		21.31		26.31		
3.4	25	33.06		18.53		24.54		

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)	
3.85	-30	47.88	±2060.5	20.15	±2091.5	26.51	±2122	Pass
	-20	23.18		19.63		26.51		
	-10	22.02		24.5		25.47		
	0	21.34		18.79		28.48		
	10	22.7		21.28		25.18		
	20	51.59		17.47		24.38		
	25	24.6		25.09		58.82		
	30	22.76		21.63		25.31		
	40	24.5		26.64		23.57		
	50	23.96		19.92		24.8		
4.4	25	21.08		28.57		26.47		
3.4	25	25.73		19.18		24.73		

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)	
3.85	-30	38.68	±4625.5	34.97	±4700.0	32.64	±4774.5	Pass
	-20	39.49		39.42		23.96		
	-10	39.74		35.9		31.64		
	0	37.81		37.16		24.8		
	10	45.43		38.58		26.47		
	20	35.61		37.84		31.51		
	25	43.17		41.62		32.16		
	30	43.81		42.26		29.38		
	40	44.46		41.16		29.06		
	50	39.74		38.16		26.96		
4.4	25	39.94		42.23		28.9		
3.4	25	39.87		36.13		30.03		

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)	
3.85	-30	31.28	±2060.5	32.12	±2091.5	33.64	±2122	Pass
	-20	28.06		31.87		36.74		
	-10	28.22		34.48		28.31		
	0	26.09		29.44		31.61		
	10	28.31		31.51		29.06		
	20	28.35		34.16		30.03		
	25	32.03		31.64		32.06		
	30	30.09		35.87		32.93		
	40	27.38		32.58		27.77		
	50	29.22		31.96		27.54		
4.4	25	28.54	±2060.5	28.73	±2091.5	27.15	±2122	Pass
3.4	25	28.48		30.67		26.6		

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)	
3.85	-30	37.68	±4625.5	36.32	±4700.0	27.38	±4774.5	Pass
	-20	38.68		39.39		24.6		
	-10	40.36		41.26		29.67		
	0	41.87		42.36		27.96		
	10	39.81		39.84		31.64		
	20	41.68		43.3		25.57		
	25	43		43.55		27.73		
	30	39.74		41.62		32.38		
	40	39.78		32.35		33.93		
	50	39.91		40.49		24.92		
4.4	25	41.65		41.39		30.09		
3.4	25	40.45		40.87		25.63		

CDMA BC0

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.70 MHz		MCH 836.52 MHz		HCH 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	0.81	±2061.75	-1.98	±2091.3	-0.66	±2120.775	Pass
	-20	0.88		-1.54		1.98		
	-10	-2.05		-0.51		1.76		
	0	-0.88		-1.32		-0.07		
	10	1.54		-0.95		1.17		
	20	-0.66		-3.74		2.49		
	25	-1.34		-0.59		2.11		
	30	1.90		-1.03		1.76		
	40	1.68		-3.15		-1.17		
	50	-3.08		-0.95		-1.03		
4.4	25	-1.10		-0.73		1.32		
3.4	25	-0.81		-0.07		-0.88		

EVDO BC0

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.70 MHz		MCH 836.52 MHz		HCH 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	-0.59	±2061.75	-0.59	±2091.3	-2.49	±2120.775	Pass
	-20	0.29		0.29		-1.9		
	-10	-0.4		-0.73		-1.17		
	0	-1.39		-1.98		-1.32		
	10	-1.68		0.44		-1.17		
	20	-0.44		-0.59		-1.76		
	25	-0.93		-1.37		-1.96		
	30	0.88		-2.12		-0.73		
	40	-1.46		-0.44		-2.34		
	50	-0.29		0.07		-1.32		
4.4	25	0.15		-1.46		-2.05		
3.4	25	-0.95		-1.25		-0.29		

WCDMA Band 2

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.4 MHz		MCH 1880 MHz		HCH 1907.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	-0.09	±4631	-2.65	±4700	-8.88	±4769	Pass
	-20	-0.93		-2.85		-8.56		
	-10	-1.43		-3.77		-9.86		
	0	-1.28		-3.38		-8.46		
	10	-1.7		-3.65		-8.55		
	20	-2.87		-3.31		-9.31		
	25	-1.45		-3.55		-9.09		
	30	-2.17		-3.76		-9.42		
	40	-2.77		-3.54		-9.03		
	50	-1.29		-3.61		-8.08		
4.4	25	-0.89		-4.22		-8.66		
3.4	25	-1.26		-4.18		-8.48		

WCDMA Band B5

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.4 MHz		MCH 836.4 MHz		HCH 846.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	-0.69	±2066	-0.51	±2091	-2.83	±2116.5	Pass
	-20	-0.28		-0.89		-3.43		
	-10	-0.34		-0.89		-2.77		
	0	-0.77		-1.85		-2.63		
	10	-0.36		-1.47		-3.88		
	20	0.36		-0.62		-2.78		
	25	-0.51		-0.43		-3.18		
	30	-1.07		-0.38		-2.68		
	40	-0.61		-1.4		-2.35		
	50	-0.26		-1.07		-2.4		
4.4	25	-1.32		-0.68		-2.7		
3.4	25	-0.34		-0.4		-2.52		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	0.03	±2091.25	Pass
	-20	1.1		
	-10	1.73		
	0	0.1		
	10	1.73		
	20	1.24		
	25	1.9		
	30	0.94		
	40	0.47		
	50	0.79		
4.4	25	-1.04	±2091.25	Pass
3.4	25	-0.56		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	0.23	±2091.25	Pass
	-20	1.5		
	-10	0.53		
	0	1.02		
	10	-0.03		
	20	-0.16		
	25	0.54		
	30	0.19		
	40	-0.72		
	50	-0.04		
4.4	25	-0.26	±2091.25	Pass
3.4	25	-1.95		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-1.44	±6337.5	Pass
	-20	-2.22		
	-10	-0.11		
	0	-0.92		
	10	-1.5		
	20	-1.24		
	25	0.3		
	30	-1.09		
	40	-1.73		
	50	0.37		
4.4	25	-2.29		
3.4	25	-0.74		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-2.76	±6337.5	Pass
	-20	-1.04		
	-10	-1.12		
	0	-2.07		
	10	-2.78		
	20	-1.22		
	25	-2.26		
	30	-3.03		
	40	-2.49		
	50	-1.43		
4.4	25	-1.85		
3.4	25	-1.13		

LTE Band 38 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2595 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-3.72	±6487.5	Pass
	-20	-5.36		
	-10	-3.73		
	0	-5.89		
	10	-5.45		
	20	-4.75		
	25	-6.11		
	30	-5.76		
	40	-4.76		
	50	-5.46		
4.4	25	-4.56		
3.4	25	-4.65		

LTE Band 38 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2595 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-4.94	±6487.5	Pass
	-20	-4.63		
	-10	-5.82		
	0	-6.39		
	10	-4.62		
	20	-5.54		
	25	-5.26		
	30	-4.35		
	40	-4.85		
	50	-3.95		
4.4	25	-2.83		
3.4	25	-2.63		

LTE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	2.53	±6512.5	Pass
	-20	-0.41		
	-10	2.82		
	0	3.58		
	10	4.01		
	20	4.13		
	25	1.96		
	30	5.66		
	40	1.2		
	50	3.69		
4.4	25	3.55		
3.4	25	4.42		

LTE Band 41 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	2.45	±6512.5	Pass
	-20	-2.42		
	-10	5.79		
	0	2.39		
	10	1.99		
	20	3.3		
	25	2.76		
	30	-0.1		
	40	2.12		
	50	1.72		
4.4	25	-1.7		
3.4	25	-0.72		

A.5 Spurious Emission at Antenna Terminals

Note 1: GSM 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-SZ2270322-501 Data Part 3.pdf".

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 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
CDMA BC0	LCH	5.1	Pass
	MCH	6.1	Pass
	HCH	7.1	Pass
EVDO BC0	LCH	8.1	Pass
	MCH	9.1	Pass
	HCH	10.1	Pass
WCDMA Band 2	LCH	11.1	Pass
	MCH	11.2	Pass
	HCH	11.3	Pass
WCDMA Band 5	LCH	12.1	Pass
	MCH	12.2	Pass
	HCH	12.3	Pass

LTE Mode Test Verdict

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	13.1	Pass
			16-QAM	RB1#0	13.2	Pass
		MCH	QPSK	RB1#0	13.3	Pass
			16-QAM	RB1#0	13.4	Pass
		HCH	QPSK	RB1#0	13.5	Pass
			16-QAM	RB1#0	13.6	Pass
	3 MHz	LCH	QPSK	RB1#0	13.7	Pass
			16-QAM	RB1#0	13.8	Pass
		MCH	QPSK	RB1#0	13.9	Pass
			16-QAM	RB1#0	13.10	Pass
		HCH	QPSK	RB1#0	13.11	Pass
			16-QAM	RB1#0	13.12	Pass
	5 MHz	LCH	QPSK	RB1#0	13.13	Pass
			16-QAM	RB1#0	13.14	Pass
		MCH	QPSK	RB1#0	13.15	Pass
			16-QAM	RB1#0	13.16	Pass
		HCH	QPSK	RB1#0	13.17	Pass
			16-QAM	RB1#0	13.18	Pass
	10 MHz	LCH	QPSK	RB1#0	13.19	Pass
			16-QAM	RB1#0	13.20	Pass
		MCH	QPSK	RB1#0	13.21	Pass
			16-QAM	RB1#0	13.22	Pass
		HCH	QPSK	RB1#0	13.23	Pass
			16-QAM	RB1#0	13.24	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	14.1	Pass
			16-QAM	RB1#0	14.2	Pass
		MCH	QPSK	RB1#0	14.3	Pass
			16-QAM	RB1#0	14.4	Pass
		HCH	QPSK	RB1#0	14.5	Pass
			16-QAM	RB1#0	14.6	Pass
	10 MHz	LCH	QPSK	RB1#0	14.7	Pass
			16-QAM	RB1#0	14.8	Pass
		MCH	QPSK	RB1#0	14.9	Pass
			16-QAM	RB1#0	14.10	Pass
		HCH	QPSK	RB1#0	14.11	Pass
			16-QAM	RB1#0	14.12	Pass
	15 MHz	LCH	QPSK	RB1#0	14.13	Pass
			16-QAM	RB1#0	14.14	Pass
		MCH	QPSK	RB1#0	14.15	Pass
			16-QAM	RB1#0	14.16	Pass
		HCH	QPSK	RB1#0	14.17	Pass
			16-QAM	RB1#0	14.18	Pass
	20 MHz	LCH	QPSK	RB1#0	14.19	Pass
			16-QAM	RB1#0	14.20	Pass
		MCH	QPSK	RB1#0	14.21	Pass
			16-QAM	RB1#0	14.22	Pass
		HCH	QPSK	RB1#0	14.23	Pass
			16-QAM	RB1#0	14.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 38	5 MHz	LCH	QPSK	RB1#0	15.1	Pass
			16-QAM	RB1#0	15.2	Pass
		MCH	QPSK	RB1#0	15.3	Pass
			16-QAM	RB1#0	15.4	Pass
		HCH	QPSK	RB1#0	15.5	Pass
			16-QAM	RB1#0	15.6	Pass
	10 MHz	LCH	QPSK	RB1#0	15.7	Pass
			16-QAM	RB1#0	15.8	Pass
		MCH	QPSK	RB1#0	15.9	Pass
			16-QAM	RB1#0	15.10	Pass
		HCH	QPSK	RB1#0	15.11	Pass
			16-QAM	RB1#0	15.12	Pass
	15 MHz	LCH	QPSK	RB1#0	15.13	Pass
			16-QAM	RB1#0	15.14	Pass
		MCH	QPSK	RB1#0	15.15	Pass
			16-QAM	RB1#0	15.16	Pass
		HCH	QPSK	RB1#0	15.17	Pass
			16-QAM	RB1#0	15.18	Pass
	20 MHz	LCH	QPSK	RB1#0	15.19	Pass
			16-QAM	RB1#0	15.20	Pass
		MCH	QPSK	RB1#0	15.21	Pass
			16-QAM	RB1#0	15.22	Pass
		HCH	QPSK	RB1#0	15.23	Pass
			16-QAM	RB1#0	15.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	16.1	Pass
			16-QAM	RB1#0	16.2	Pass
		MCH	QPSK	RB1#0	16.3	Pass
			16-QAM	RB1#0	16.4	Pass
		HCH	QPSK	RB1#0	16.5	Pass
			16-QAM	RB1#0	16.6	Pass
	10 MHz	LCH	QPSK	RB1#0	16.7	Pass
			16-QAM	RB1#0	16.8	Pass
		MCH	QPSK	RB1#0	16.9	Pass
			16-QAM	RB1#0	16.10	Pass
		HCH	QPSK	RB1#0	16.11	Pass
			16-QAM	RB1#0	16.12	Pass
	15 MHz	LCH	QPSK	RB1#0	16.13	Pass
			16-QAM	RB1#0	16.14	Pass
		MCH	QPSK	RB1#0	16.15	Pass
			16-QAM	RB1#0	16.16	Pass
		HCH	QPSK	RB1#0	16.17	Pass
			16-QAM	RB1#0	16.18	Pass
	20 MHz	LCH	QPSK	RB1#0	16.19	Pass
			16-QAM	RB1#0	16.20	Pass
		MCH	QPSK	RB1#0	16.21	Pass
			16-QAM	RB1#0	16.22	Pass
		HCH	QPSK	RB1#0	16.23	Pass
			16-QAM	RB1#0	16.24	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-SZ2270322-501 Data Part 4.pdf”.

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note1}	Verdict
GSM 850	LCH	1.1	Pass
	HCH	1.2	Pass
GSM 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
CDMA BC0	LCH	5.1	Pass
	HCH	6.1	Pass
EVDO BC0	LCH	7.1	Pass
	HCH	8.1	Pass
WCDMA Band 2	LCH	9.1	Pass
	HCH	9.2	Pass
WCDMA Band 5	LCH	10.1	Pass
	HCH	10.2	Pass

LTE Mode Test Verdict

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	11.1	Pass
				RB6#0	11.2	Pass
			16-QAM	RB1#0	11.3	Pass
				RB6#0	11.4	Pass
		HCH	QPSK	RB1#5	11.5	Pass
				RB6#0	11.6	Pass
			16-QAM	RB1#5	11.7	Pass
				RB6#0	11.8	Pass
	3 MHz	LCH	QPSK	RB1#0	11.9	Pass
				RB15#0	11.10	Pass
			16-QAM	RB1#0	11.11	Pass
				RB15#0	11.12	Pass
		HCH	QPSK	RB1#14	11.13	Pass
				RB15#0	11.14	Pass
			16-QAM	RB1#14	11.15	Pass
				RB15#0	11.16	Pass
	5 MHz	LCH	QPSK	RB1#0	11.17	Pass
				RB25#0	11.18	Pass
			16-QAM	RB1#0	11.19	Pass
				RB25#0	11.20	Pass
		HCH	QPSK	RB1#24	11.21	Pass
				RB25#0	11.22	Pass
			16-QAM	RB1#24	11.23	Pass
				RB25#0	11.24	Pass
	10 MHz	LCH	QPSK	RB1#0	11.25	Pass
				RB50#0	11.26	Pass
			16-QAM	RB1#0	11.27	Pass
				RB50#0	11.28	Pass
		HCH	QPSK	RB1#49	11.29	Pass
				RB50#0	11.30	Pass
			16-QAM	RB1#49	11.31	Pass
				RB50#0	11.32	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	12.1	Pass
				RB25#0	12.2	Pass
			16-QAM	RB1#0	12.3	Pass
				RB25#0	12.4	Pass
		HCH	QPSK	RB1#24	12.5	Pass
				RB25#0	12.6	Pass
			16-QAM	RB1#24	12.7	Pass
				RB25#0	12.8	Pass
	10 MHz	LCH	QPSK	RB1#0	12.9	Pass
				RB50#0	12.10	Pass
			16-QAM	RB1#0	12.11	Pass
				RB50#0	12.12	Pass
		HCH	QPSK	RB1#49	12.13	Pass
				RB50#0	12.14	Pass
			16-QAM	RB1#49	12.15	Pass
				RB50#0	12.16	Pass
	15 MHz	LCH	QPSK	RB1#0	12.17	Pass
				RB75#0	12.18	Pass
			16-QAM	RB1#0	12.19	Pass
				RB75#0	12.20	Pass
		HCH	QPSK	RB1#74	12.21	Pass
				RB75#0	12.22	Pass
			16-QAM	RB1#74	12.23	Pass
				RB75#0	12.24	Pass
	20 MHz	LCH	QPSK	RB1#0	12.25	Pass
				RB100#0	12.26	Pass
			16-QAM	RB1#0	12.27	Pass
				RB100#0	12.28	Pass
		HCH	QPSK	RB1#99	12.29	Pass
				RB100#0	12.30	Pass
			16-QAM	RB1#99	12.31	Pass
				RB100#0	12.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 38	5 MHz	LCH	QPSK	RB1#0	13.1	Pass
				RB25#0	13.2	Pass
			16-QAM	RB1#0	13.3	Pass
				RB25#0	13.4	Pass
		HCH	QPSK	RB1#24	13.5	Pass
				RB25#0	13.6	Pass
			16-QAM	RB1#24	13.7	Pass
				RB25#0	13.8	Pass
	10 MHz	LCH	QPSK	RB1#0	13.9	Pass
				RB50#0	13.10	Pass
			16-QAM	RB1#0	13.11	Pass
				RB50#0	13.12	Pass
		HCH	QPSK	RB1#49	13.13	Pass
				RB50#0	13.14	Pass
			16-QAM	RB1#49	13.15	Pass
				RB50#0	13.16	Pass
	15 MHz	LCH	QPSK	RB1#0	13.17	Pass
				RB75#0	13.18	Pass
			16-QAM	RB1#0	13.19	Pass
				RB75#0	13.20	Pass
		HCH	QPSK	RB1#74	13.21	Pass
				RB75#0	13.22	Pass
			16-QAM	RB1#74	13.23	Pass
				RB75#0	13.24	Pass
	20 MHz	LCH	QPSK	RB1#0	13.25	Pass
				RB100#0	13.26	Pass
			16-QAM	RB1#0	13.27	Pass
				RB100#0	13.28	Pass
		HCH	QPSK	RB1#99	13.29	Pass
				RB100#0	13.30	Pass
			16-QAM	RB1#99	13.31	Pass
				RB100#0	13.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	14.1	Pass
				RB25#0	14.2	Pass
			16-QAM	RB1#0	14.3	Pass
				RB25#0	14.4	Pass
		HCH	QPSK	RB1#24	14.5	Pass
				RB25#0	14.6	Pass
			16-QAM	RB1#24	14.7	Pass
				RB25#0	14.8	Pass
	10 MHz	LCH	QPSK	RB1#0	14.9	Pass
				RB50#0	14.10	Pass
			16-QAM	RB1#0	14.11	Pass
				RB50#0	14.12	Pass
		HCH	QPSK	RB1#49	14.13	Pass
				RB50#0	14.14	Pass
			16-QAM	RB1#49	14.15	Pass
				RB50#0	14.16	Pass
	15 MHz	LCH	QPSK	RB1#0	14.17	Pass
				RB75#0	14.18	Pass
			16-QAM	RB1#0	14.19	Pass
				RB75#0	14.20	Pass
		HCH	QPSK	RB1#74	14.21	Pass
				RB75#0	14.22	Pass
			16-QAM	RB1#74	14.23	Pass
				RB75#0	14.24	Pass
	20 MHz	LCH	QPSK	RB1#0	14.25	Pass
				RB100#0	14.26	Pass
			16-QAM	RB1#0	14.27	Pass
				RB100#0	14.28	Pass
		HCH	QPSK	RB1#99	14.29	Pass
				RB100#0	14.30	Pass
			16-QAM	RB1#99	14.31	Pass
				RB100#0	14.32	Pass

A.7 Field Strength of Spurious Radiation

Note 1: GSM and EGPRS modes have been verified, only the worst data with different transmit bandwidth for LTE are shown here.

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

Note 3: Test plots please refer to the document "Annex No.:BL-SZ2270322-501 Data Part 5.pdf".

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 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
CDMA BC0	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
EVDO BC0	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 2	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass
WCDMA Band 5	LCH	8.1	Pass
	MCH	8.2	Pass
	HCH	8.3	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 5	1.4 MHz	MCH	QPSK	RB1#0	9.1	Pass
	3 MHz	MCH	QPSK	RB1#0	9.2	Pass
	5 MHz	MCH	QPSK	RB1#0	9.3	Pass
	10 MHz	MCH	QPSK	RB1#0	9.4	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	10.1	Pass
	10 MHz	MCH	QPSK	RB1#0	10.2	Pass
	15 MHz	MCH	QPSK	RB1#0	10.3	Pass
	20 MHz	MCH	QPSK	RB1#0	10.4	Pass
Band 38	5 MHz	MCH	QPSK	RB1#0	11.1	Pass
	10 MHz	MCH	QPSK	RB1#0	11.2	Pass
	15 MHz	MCH	QPSK	RB1#0	11.3	Pass
	20 MHz	MCH	QPSK	RB1#0	11.4	Pass
Band 41	5 MHz	MCH	QPSK	RB1#0	12.1	Pass
	10 MHz	MCH	QPSK	RB1#0	12.2	Pass
	15 MHz	MCH	QPSK	RB1#0	12.3	Pass
	20 MHz	MCH	QPSK	RB1#0	12.4	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “BL-SZ2270322-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “BL-SZ2270322-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “BL-SZ2270322-AI.PDF”.

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