

# TEST REPORT

**Applicant:** Xiaomi Communications Co., Ltd.  
**Address:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,  
Haidian District, Beijing, China, 100085  
**Equipment Type:** Mobile Phone  
**Model Name:** 2209116AG  
**Brand Name:** Redmi  
**FCC ID:** 2AFZZ16AG  
**Test Standard:** 47 CFR Part 2  
(Others refer section 3.1)  
**Test Date:** Aug. 09, 2022 - Aug. 19, 2022  
**Date of Issue:** Sep. 07, 2022

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Huang Jinsheng    **Checked by:** Wu Huihui    **Approved by:** Wei Yanquan  
(Chief Engineer)

*Huang Jinsheng*

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*Wu Huihui*

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<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 07, 2022</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

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

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.3 Factory Information

Factory	N/A
Address	N/A

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	2209116AG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P1.1
Software Version	MIUI 13
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.5 Technical Information

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

All Network and Wireless connectivity for EUT	<p>2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8</p> <p>4G Network LTE FDD Band 1/2/3/4/5/7/8/20/28/66 LTE TDD Band 38/40/41</p> <p>LTE CA Uplink (UL): CA_3C, CA_7C, CA_38C, CA_40C, CA_41C</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, FM receiver, NFC</p>
About the Product	The equipment is Mobile Phone, intended for used with information technology equipment.
IMEI	<p>S33: IMEI1#: 862244060089233; IMEI2#: 862244060089241</p> <p>S35: IMEI1#: 862244060089035; IMEI2#: 862244060089043</p>
<p>Note 1:</p> <p>The EUT is a mobile phone, 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.</p>	

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

Operating Bands	<p>GSM/GPRS/EGPRS 850/ 1900 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 2/4/5</p> <p>LTE FDD Band 2/4/5/7/66</p> <p>LTE TDD Band 38/41</p> <p>CA_7C, CA_38C, CA_41C</p>	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	HSDPA /HSUPA	QPSK
		16QAM
	LTE	QPSK
16QAM		
TX Frequency Range	<p>GSM/GPRS/EGPRS 850: 824 MHz ~ 849 MHz</p> <p>GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 2: 1850 MHz ~ 1910 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 4: 1710 MHz ~ 1755 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz</p> <p>FDD LTE Band 2: 1850 MHz ~ 1910 MHz</p> <p>FDD LTE Band 4: 1710 MHz ~ 1755 MHz</p> <p>FDD LTE Band 5: 824 MHz ~ 849 MHz</p>	

	<p>FDD LTE Band 7: 2500 MHz ~ 2570 MHz</p> <p>FDD LTE Band 66: 1710 MHz ~ 1780 MHz</p> <p>TDD LTE Band 38: 2570 MHz ~ 2620 MHz</p> <p>TDD LTE Band 41: 2496 MHz ~ 2690 MHz</p>
Rx Frequency Range	<p>GSM/GPRS/EGPRS 850: 869 MHz ~ 894 MHz</p> <p>GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 2: 1930 MHz ~ 1990 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 4: 2110 MHz ~ 2155 MHz</p> <p>WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz</p> <p>FDD LTE Band 2: 1930 MHz ~ 1990 MHz</p> <p>FDD LTE Band 4: 2110 MHz ~ 2155 MHz</p> <p>FDD LTE Band 5: 869 MHz ~ 894 MHz</p> <p>FDD LTE Band 7: 2620 MHz ~ 2690 MHz</p> <p>FDD LTE Band 66: 2110 MHz ~ 2200 MHz</p> <p>TDD LTE Band 38: 2570 MHz ~ 2620 MHz</p> <p>TDD LTE Band 41: 2496 MHz ~ 2690 MHz</p>
Power Class	<p>GSM/GPRS 850: 4</p> <p>GSM/GPRS 1900: 1</p> <p>EGPRS 850/1900: E2</p> <p>WCDMA/HSDPA/HSUPA Band 2: 3</p> <p>WCDMA/HSDPA/HSUPA Band 4: 3</p> <p>WCDMA/HSDPA/HSUPA Band 5: 3</p> <p>FDD LTE Band 2: 3</p> <p>FDD LTE Band 4: 3</p> <p>FDD LTE Band 5: 3</p> <p>FDD LTE Band 7: 3</p> <p>FDD LTE Band 66: 3</p> <p>FDD LTE Band 38: 3</p> <p>FDD LTE Band 41: 3</p>
Multislot Class	GPRS/EGPRS: 33
Antenna Type	PIFA Antenna
Antenna Gain	<p>GSM/GPRS/EGPRS 850: -5.27 dBi(ANT0), -5.5 dBi(ANT4)</p> <p>GSM/GPRS/EGPRS 1900: -1.85 dBi(ANT0), -2.25 dBi(ANT4)</p> <p>WCDMA/HSDPA/HSUPA Band 2: -1.85 dBi(ANT0), -2.25 dBi(ANT4)</p> <p>WCDMA/HSDPA/HSUPA Band 4: -2.85 dBi(ANT0), -6.0 dBi(ANT4)</p> <p>WCDMA/HSDPA/HSUPA Band 5: -5.27 dBi(ANT0), -5.5 dBi(ANT4)</p> <p>FDD LTE Band 2: -1.85 dBi(ANT0), -2.25 dBi(ANT4)</p> <p>FDD LTE Band 4: -2.85 dBi(ANT0), -6.0 dBi(ANT4)</p> <p>FDD LTE Band 5: -5.27 dBi(ANT0), -5.5 dBi(ANT4)</p> <p>FDD LTE Band 7: -3.7 dBi(ANT0), -1.7 dBi(ANT4)</p> <p>FDD LTE Band 66: -2.85 dBi(ANT0), -6.0 dBi(ANT4)</p> <p>FDD LTE Band 38: -3.7 dBi(ANT0), -1.7 dBi(ANT4)</p> <p>FDD LTE Band 41: -3.7 dBi(ANT0), -1.7 dBi(ANT4)</p> <p>CA_7C: -3.7 dBi(ANT0), -1.7 dBi(ANT4)</p>

	CA_38C: -3.7 dBi(ANT0), -1.7 dBi(ANT4) CA_41C: -3.7 dBi(ANT0), -1.7 dBi(ANT4)
The Max RF Output Power (EIRP/ERP)	GSM/GPRS/EGPRS 850: 26.12 dBm GSM/GPRS/EGPRS 1900: 27.45 dBm WCDMA/HSDPA/HSUPA Band 2: 22.26 dBm WCDMA/HSDPA/HSUPA Band 4: 21.13 dBm WCDMA/HSDPA/HSUPA Band 5: 16.84 dBm FDD LTE Band 2: 22.49 dBm FDD LTE Band 4: 21.25 dBm FDD LTE Band 5: 17.05 dBm FDD LTE Band 7: 22.39 dBm FDD LTE Band 66: 21.34 dBm TDD LTE Band 38: 22.48 dBm TDD LTE Band 41: 22.56 dBm CA_7C: 22.67 dBm CA_38C: 22.57 dBm CA_41C: 22.58 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.

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

### 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)	3.87 V
	LV (Low Voltage)	3.60 V
	HV (High Voltage)	4.45 V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+55 °C

### 4.1 Test Equipment and Test Software List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
<b>2/3/4/5G RF Test System</b>						
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
<b>Radiated Test System</b>						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V19.918	N/A	N/A

Amplifier	KMW	ZT30-1000MHz	N/A	N/A	2022.06.16	2023.06.15
Amplifier	KMW	LSCX-LNA1-12G-01	N/A	N/A	2022.06.16	2023.06.15
Amplifier	KMW	XKu_LNA7-18G-01	N/A	N/A	2022.06.16	2023.06.15
Amplifier	KMW	DLAN-18000-40000-02	N/A	N/A	2022.06.16	2023.06.15
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
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 4	v	v	v
	HSDPA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 4	v	v	v
	HSUPA Band 5	v	v	v
Peak to Average Ratio	WCDMA Band 2	v	v	v
	WCDMA Band 4	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
	WCDMA Band 2	v	v	v
	WCDMA Band 4	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
	WCDMA Band 2	v	v	v
	WCDMA Band 4	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
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
	WCDMA Band 4	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
	WCDMA Band 2	v	--	v
	WCDMA Band 4	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
	WCDMA Band 2	v	v	v
	WCDMA Band 4	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
WCDMA Band 2	Low Channel	9262	1852.4
	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
WCDMA Band 4	Low Channel	1312	1712.4
	Middle Channel	1412	1732.4
	High Channel	1513	1752.6
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
<b>Effective (Isotropic) Radiated Power</b>														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
66	v	v	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
<b>Peak to Average Ratio</b>														
2	--	--	--	--	--	v	v	v	v	--	v	v	v	v
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
66	--	--	--	--	--	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
<b>Occupied Bandwidth</b>														
2	v	v	v	v	v	v	v	v	--	--	v	v	v	v
4	v	v	v	v	v	v	v	v	--	--	v	v	v	v
5	v	v	v	v	n	n	v	v	--	--	v	v	v	v
7	n	n	v	v	v	v	v	v	--	--	v	v	v	v
66	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
41	n	n	v	v	v	v	v	v	--	--	v	v	v	v
<b>Frequency Stability</b>														
2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
66	--	--	--	v	--	--	v	v	--	--	v	--	v	--
38	n	n	--	v	--	--	v	v	--	--	v	--	v	--
41	n	n	--	v	--	--	v	v	--	--	v	--	v	--
<b>Spurious Emission at Antenna Terminals</b>														
2	v	v	v	v	v	v	v	v	v	--	--	v	v	v
4	v	v	v	v	v	v	v	v	v	--	--	v	v	v
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
66	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

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
41	n	n	v	v	v	v	v	v	v	--	--	v	v	v
<b>Band Edge</b>														
2	v	v	v	v	v	v	v	v	v	--	v	v	--	v
4	v	v	v	v	v	v	v	v	v	--	v	v	--	v
5	v	v	v	v	n	n	v	v	v	--	v	v	--	v
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
66	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
41	n	n	v	v	v	v	v	v	v	--	v	v	--	v
<b>Field Strength of Spurious Radiation</b>														
2	v	v	v	v	v	v	v	--	v	--	--	--	v	--
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
66	v	v	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	--
<p>Note 1: The mark “v” means that this configuration is chosen for testing.</p> <p>Note 2: The mark “n” means that this bandwidth is not supported.</p>														

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)	
LTE Band 2	Low Range	1.4	18607	1850.7	
		3	18615	1851.5	
		5	18625	1852.5	
		10	18650	1855	
		15	18675	1857.5	
		20	18700	1860	
	Middle Range	1.4/3/5/10/15/20	18900	1880	
	High Range	1.4	19193	1909.3	
		3	19185	1908.5	
		5	19175	1907.5	
		10	19150	1905	
		15	19125	1902.5	
		20	19100	1900	
	LTE Band 4	Low Range	1.4	19957	1710.7
			3	19965	1711.5
5			19975	1712.5	
10			20000	1715	
15			20025	1717.5	
20			20050	1720	
Middle Range		1.4/3/5/10/15/20	20175	1732.5	
High Range		1.4	20393	1754.3	
		3	20385	1753.5	
		5	20375	1752.5	
		10	20350	1750	
		15	20325	1747.5	
		20	20300	1745	
LTE Band 5		Low Range	1.4	20407	824.7
			3	20415	825.5
	5		20425	826.5	
	10		20450	829	
	Middle Range	1.4/3/5/10	20525	836.5	
	High Range	1.4	20643	848.3	
		3	20635	847.5	
		5	20625	846.5	
		10	20600	844	
	LTE Band 7	Low Range	5	20775	2502.5
10			20800	2505	
15			20825	2507.5	
20			20850	2510	
Middle Range		5/10/15/20	21100	2535	
High Range		5	21425	2567.5	

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		10	21400	2565
		15	21375	2562.5
		20	21350	2560
LTE Band 66	Low Range	1.4	131979	1710.7
		3	131987	1711.5
		5	131997	1712.5
		10	132022	1715
		15	132047	1717.5
		20	132072	1720
	Middle Range	1.4/3/5/10/15/20	132322	1745
	High Range	1.4	132665	1779.3
		3	132657	1778.5
		5	132647	1777.5
		10	132622	1775
		15	132597	1772.5
		20	132572	1770
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	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Middle Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
20		41490	2680	

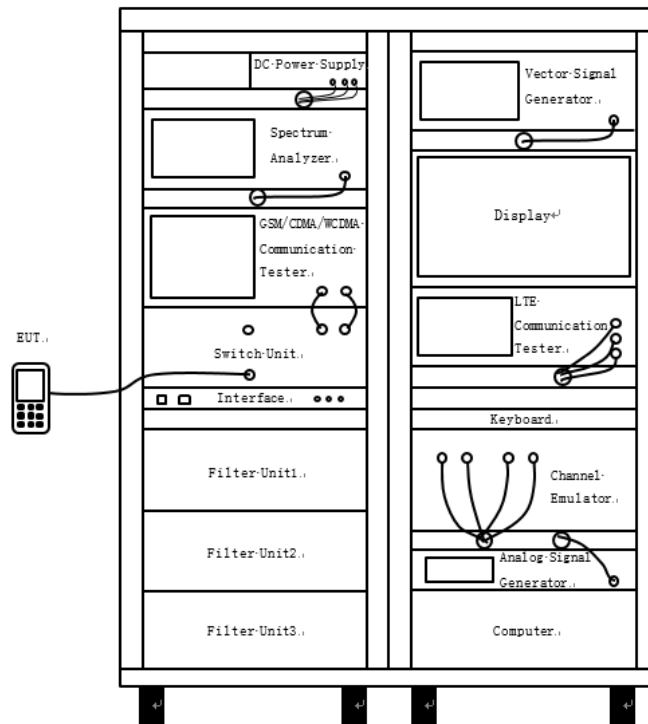
Test frequencies for CA_7C											
Range	CC-Combo / NRB_agg [RB]	CC1					CC2				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680	

Test frequencies for CA_38C							
Range	CC-Combo / NRB_agg [RB]	CC1			CC2		
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610

Test frequencies for CA_41C (2496-2690MHz)							
Range	CC-Combo / NRB_agg [RB]	CC1			CC2		
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
		100	39750	2506	75	39921	2523.1
	100+100	100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
		100	40546	2585.6	75	40717	2602.7
	100+100	100	40521	2583.1	100	40719	2602.9
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
		100	41341	2665.1	75	41512	2682.2
	100+100	100	41292	2660.2	100	41490	2680

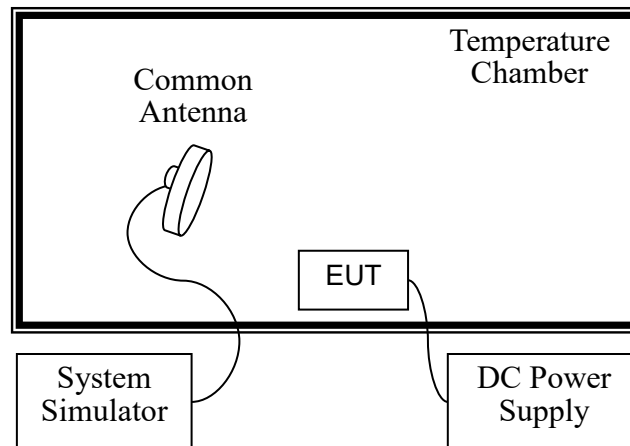
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



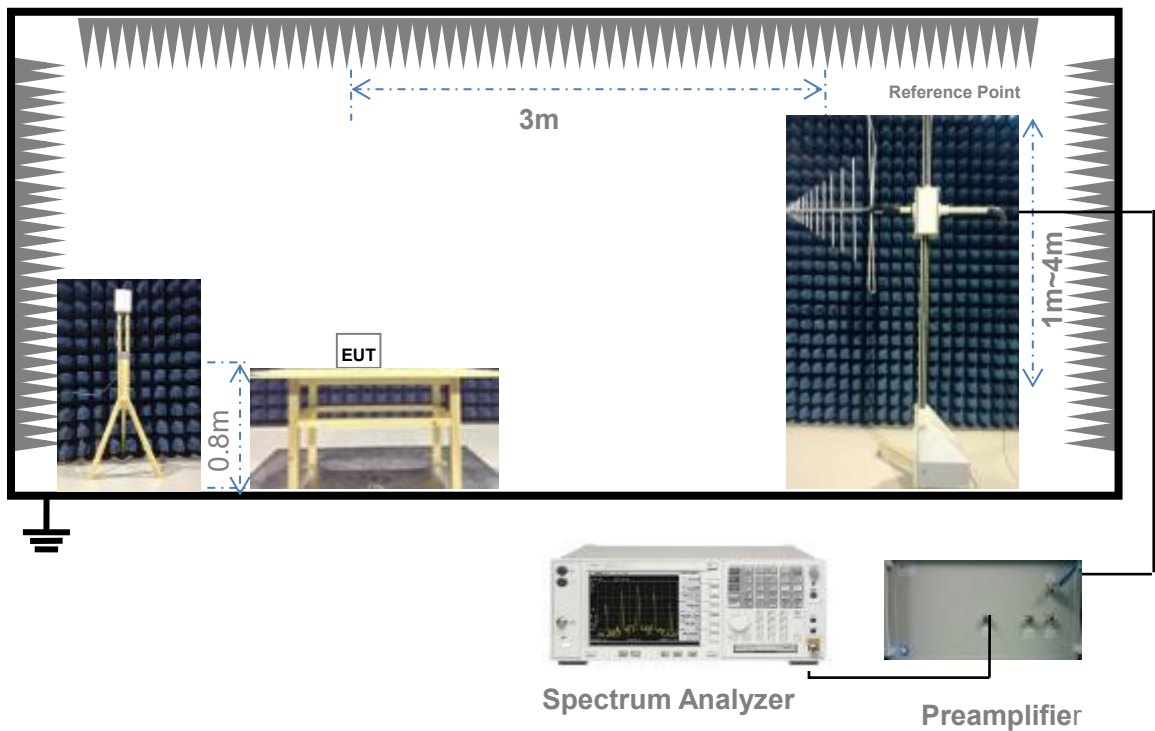
(Diagram 1)

### 4.4.2 For Frequency Stability Test



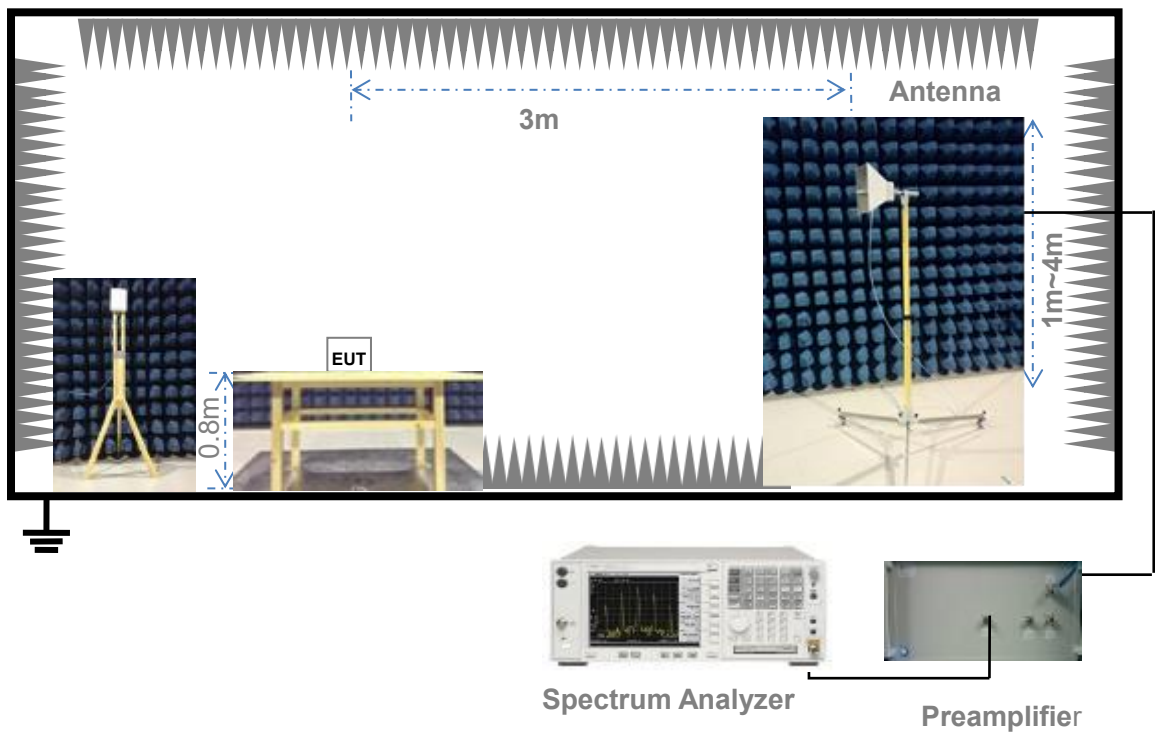
(Diagram 2)

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  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = 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  $P_{\text{Meas}}$  value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

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

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

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

where:

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

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

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

For example:

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

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

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Peak to Average Ratio

### 5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

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

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

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

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

### 5.2.2 Test Setup

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

### 5.2.3 Test Procedure

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

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

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  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  $10\log(\text{OBW} / \text{RBW})$  below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) 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  $50\Omega$ ; 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  $43 + 10 \cdot \log(P)$  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 that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service

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

## 5.6.2 Test Setup

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

## 5.6.3 Test Procedure

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

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. The center of the spectrum analyzer was set to block edge frequency.
5. Band edge are tested with 1%\*cBW (RBW), and sweep point number referred to following formula.

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

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

6. Record the frequencies and levels of spurious emissions.

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

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

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

## 5.6.4 Test Result

Please refer to ANNEX A.6.

## 5.7 Field Strength of Spurious Radiation

### 5.7.1 Limit

FCC § 2.1053 & 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	33.31	-5.27	-7.42	25.89	0.388	7.00	Pass
	MCH	33.30	-5.27	-7.42	25.88	0.387	7.00	Pass
	HCH	33.54	-5.27	-7.42	26.12	0.409	7.00	Pass
GPRS 850	LCH	33.29	-5.27	-7.42	25.87	0.386	7.00	Pass
	MCH	33.39	-5.27	-7.42	25.97	0.395	7.00	Pass
	HCH	33.54	-5.27	-7.42	26.12	0.409	7.00	Pass
EGPRS 850	LCH	29.95	-5.27	-7.42	22.53	0.179	7.00	Pass
	MCH	29.65	-5.27	-7.42	22.23	0.167	7.00	Pass
	HCH	29.66	-5.27	-7.42	22.24	0.167	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	29.30	-1.85	27.45	0.556	2.00	Pass
	MCH	28.96	-1.85	27.11	0.514	2.00	Pass
	HCH	28.83	-1.85	26.98	0.499	2.00	Pass
GPRS 1900	LCH	29.22	-1.85	27.37	0.546	2.00	Pass
	MCH	28.91	-1.85	27.06	0.508	2.00	Pass
	HCH	28.89	-1.85	27.04	0.506	2.00	Pass
EGPRS 1900	LCH	28.80	-1.85	26.95	0.495	2.00	Pass
	MCH	28.55	-1.85	26.70	0.468	2.00	Pass
	HCH	28.39	-1.85	26.54	0.451	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	33.29	2.133	30.85	1.215	28.90	0.776	27.20	0.525
	MCH	33.39	2.183	30.96	1.246	28.90	0.777	27.15	0.518
	HCH	33.54	2.259	31.08	1.282	29.04	0.802	27.40	0.550
GPRS 1900	LCH	29.22	0.836	27.67	0.585	26.05	0.402	24.41	0.276
	MCH	28.91	0.778	27.55	0.569	25.94	0.392	24.19	0.263
	HCH	28.89	0.774	27.51	0.564	25.83	0.383	24.05	0.254

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	29.95	0.989	27.20	0.524	25.18	0.330	24.04	0.254
	MCH	29.65	0.923	26.85	0.484	25.01	0.317	23.62	0.230
	HCH	29.66	0.925	26.70	0.468	24.77	0.300	23.37	0.217
EGPRS 1900	LCH	28.80	0.759	25.87	0.386	24.10	0.257	22.58	0.181
	MCH	28.55	0.716	25.79	0.379	23.82	0.241	22.25	0.168
	HCH	28.39	0.690	25.67	0.369	23.51	0.224	22.33	0.171

## 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	23.71	-1.85	21.86	0.153	2.00	Pass
	MCH	24.11	-1.85	22.26	0.168	2.00	Pass
	HCH	23.99	-1.85	22.14	0.164	2.00	Pass
HSDPA Band 2	LCH	22.69	-1.85	20.84	0.121	2.00	Pass
	MCH	23.08	-1.85	21.23	0.133	2.00	Pass
	HCH	22.98	-1.85	21.13	0.130	2.00	Pass
HSUPA Band 2	LCH	22.72	-1.85	20.87	0.122	2.00	Pass
	MCH	23.16	-1.85	21.31	0.135	2.00	Pass
	HCH	23.00	-1.85	21.15	0.130	2.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 4	LCH	23.77	-2.85	20.92	0.124	1.00	Pass
	MCH	23.80	-2.85	20.95	0.124	1.00	Pass
	HCH	23.98	-2.85	21.13	0.130	1.00	Pass
HSDPA Band 4	LCH	22.83	-2.85	19.98	0.100	1.00	Pass
	MCH	22.86	-2.85	20.01	0.100	1.00	Pass
	HCH	23.06	-2.85	20.21	0.105	1.00	Pass
HSUPA Band 4	LCH	22.84	-2.85	19.99	0.100	1.00	Pass
	MCH	22.82	-2.85	19.97	0.099	1.00	Pass
	HCH	23.05	-2.85	20.20	0.105	1.00	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	24.21	-5.27	-7.42	16.79	0.048	7.00	Pass
	MCH	24.26	-5.27	-7.42	16.84	0.048	7.00	Pass
	HCH	24.22	-5.27	-7.42	16.80	0.048	7.00	Pass
HSDPA Band 5	LCH	23.29	-5.27	-7.42	15.87	0.039	7.00	Pass
	MCH	23.32	-5.27	-7.42	15.90	0.039	7.00	Pass
	HCH	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
HSUPA Band 5	LCH	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
	MCH	23.36	-5.27	-7.42	15.94	0.039	7.00	Pass
	HCH	23.18	-5.27	-7.42	15.76	0.038	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	22.69	0.186	22.67	0.185	22.18	0.165	22.20	0.166
	MCH	23.08	0.203	23.07	0.203	22.58	0.181	22.63	0.183
	HCH	22.98	0.199	22.97	0.198	22.46	0.176	22.48	0.177
HSDPA Band 4	LCH	22.78	0.190	22.83	0.192	22.31	0.170	22.35	0.172
	MCH	22.85	0.193	22.86	0.193	22.33	0.171	22.34	0.171
	HCH	23.02	0.200	23.06	0.202	22.56	0.180	22.52	0.179
HSDPA Band 5	LCH	23.22	0.210	23.29	0.213	22.78	0.190	22.79	0.190
	MCH	23.29	0.213	23.32	0.215	22.85	0.193	22.83	0.192
	HCH	23.24	0.211	23.26	0.212	22.78	0.190	22.76	0.189

#### 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	22.70	0.186	20.73	0.118	21.83	0.152	20.67	0.117	22.72	0.187
	MCH	23.15	0.207	21.11	0.129	22.10	0.162	21.13	0.130	23.16	0.207
	HCH	22.95	0.197	21.03	0.127	21.97	0.157	20.97	0.125	23.00	0.200
HSUPA Band 4	LCH	22.84	0.192	20.82	0.121	21.76	0.150	20.88	0.122	22.73	0.187
	MCH	22.77	0.189	20.89	0.123	21.90	0.155	20.86	0.122	22.82	0.191
	HCH	23.05	0.202	21.04	0.127	22.02	0.159	20.95	0.124	22.98	0.199
HSUPA Band 5	LCH	23.26	0.212	21.30	0.135	22.27	0.169	21.31	0.135	23.24	0.211
	MCH	23.33	0.215	21.32	0.136	22.36	0.172	21.24	0.133	23.36	0.217
	HCH	23.18	0.208	21.20	0.132	22.25	0.168	21.28	0.134	23.17	0.207

## LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND2</b>									
1.4 MHz	LCH	QPSK	RB1#0	23.78	-1.85	21.93	0.156	2.00	Pass
			RB1#3	23.86	-1.85	22.01	0.159	2.00	Pass
			RB1#5	23.77	-1.85	21.92	0.156	2.00	Pass
			RB3#0	23.72	-1.85	21.87	0.154	2.00	Pass
			RB3#2	23.82	-1.85	21.97	0.157	2.00	Pass
			RB3#3	23.75	-1.85	21.90	0.155	2.00	Pass
		RB6#0	22.68	-1.85	20.83	0.121	2.00	Pass	
		16-QAM	RB1#0	22.85	-1.85	21.00	0.126	2.00	Pass
			RB1#3	22.93	-1.85	21.08	0.128	2.00	Pass
			RB1#5	22.89	-1.85	21.04	0.127	2.00	Pass
			RB3#0	22.85	-1.85	21.00	0.126	2.00	Pass
			RB3#2	22.9	-1.85	21.05	0.127	2.00	Pass
	RB3#3		22.87	-1.85	21.02	0.126	2.00	Pass	
	RB6#0	21.91	-1.85	20.06	0.101	2.00	Pass		
	MCH	QPSK	RB1#0	24.16	-1.85	22.31	0.170	2.00	Pass
			RB1#3	24.28	-1.85	22.43	0.175	2.00	Pass
			RB1#5	24.19	-1.85	22.34	0.171	2.00	Pass
			RB3#0	24.16	-1.85	22.31	0.170	2.00	Pass
			RB3#2	24.28	-1.85	22.43	0.175	2.00	Pass
			RB3#3	24.19	-1.85	22.34	0.171	2.00	Pass
		RB6#0	23.15	-1.85	21.30	0.135	2.00	Pass	
		16-QAM	RB1#0	23.57	-1.85	21.72	0.149	2.00	Pass
			RB1#3	23.63	-1.85	21.78	0.151	2.00	Pass
			RB1#5	23.58	-1.85	21.73	0.149	2.00	Pass
			RB3#0	23.45	-1.85	21.60	0.145	2.00	Pass
			RB3#2	23.48	-1.85	21.63	0.146	2.00	Pass
	RB3#3		23.4	-1.85	21.55	0.143	2.00	Pass	
	RB6#0	22.13	-1.85	20.28	0.107	2.00	Pass		
	HCH	QPSK	RB1#0	24.08	-1.85	22.23	0.167	2.00	Pass
			RB1#3	24.12	-1.85	22.27	0.169	2.00	Pass
			RB1#5	24.11	-1.85	22.26	0.168	2.00	Pass
			RB3#0	23.94	-1.85	22.09	0.162	2.00	Pass
			RB3#2	24.02	-1.85	22.17	0.165	2.00	Pass
			RB3#3	23.9	-1.85	22.05	0.160	2.00	Pass
		RB6#0	23	-1.85	21.15	0.130	2.00	Pass	
		16-QAM	RB1#0	22.95	-1.85	21.10	0.129	2.00	Pass
RB1#3	22.95	-1.85	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
<b>LTE BAND2</b>									
3 MHz			RB1#5	22.96	-1.85	21.11	0.129	2.00	Pass
			RB3#0	23.09	-1.85	21.24	0.133	2.00	Pass
			RB3#2	23.14	-1.85	21.29	0.135	2.00	Pass
			RB3#3	23.08	-1.85	21.23	0.133	2.00	Pass
			RB6#0	22.2	-1.85	20.35	0.108	2.00	Pass
	LCH	QPSK	RB1#0	23.77	-1.85	21.92	0.156	2.00	Pass
			RB1#7	23.78	-1.85	21.93	0.156	2.00	Pass
			RB1#14	23.74	-1.85	21.89	0.155	2.00	Pass
			RB8#0	22.82	-1.85	20.97	0.125	2.00	Pass
			RB8#4	22.82	-1.85	20.97	0.125	2.00	Pass
			RB8#7	22.8	-1.85	20.95	0.124	2.00	Pass
		RB15#0	22.79	-1.85	20.94	0.124	2.00	Pass	
		16-QAM	RB1#0	22.64	-1.85	20.79	0.120	2.00	Pass
			RB1#7	22.71	-1.85	20.86	0.122	2.00	Pass
			RB1#14	22.64	-1.85	20.79	0.120	2.00	Pass
			RB8#0	21.97	-1.85	20.12	0.103	2.00	Pass
			RB8#4	21.99	-1.85	20.14	0.103	2.00	Pass
			RB8#7	21.97	-1.85	20.12	0.103	2.00	Pass
	RB15#0	21.89	-1.85	20.04	0.101	2.00	Pass		
	MCH	QPSK	RB1#0	24.21	-1.85	22.36	0.172	2.00	Pass
			RB1#7	24.22	-1.85	22.37	0.173	2.00	Pass
			RB1#14	24.19	-1.85	22.34	0.171	2.00	Pass
			RB8#0	23.23	-1.85	21.38	0.137	2.00	Pass
			RB8#4	23.25	-1.85	21.40	0.138	2.00	Pass
			RB8#7	23.25	-1.85	21.40	0.138	2.00	Pass
		RB15#0	23.22	-1.85	21.37	0.137	2.00	Pass	
		16-QAM	RB1#0	23.59	-1.85	21.74	0.149	2.00	Pass
			RB1#7	23.62	-1.85	21.77	0.150	2.00	Pass
RB1#14			23.61	-1.85	21.76	0.150	2.00	Pass	
RB8#0			22.37	-1.85	20.52	0.113	2.00	Pass	
RB8#4			22.38	-1.85	20.53	0.113	2.00	Pass	
RB8#7	22.38		-1.85	20.53	0.113	2.00	Pass		
RB15#0	22.34	-1.85	20.49	0.112	2.00	Pass			
HCH	QPSK	RB1#0	24.12	-1.85	22.27	0.169	2.00	Pass	
		RB1#7	24.17	-1.85	22.32	0.171	2.00	Pass	
		RB1#14	24.08	-1.85	22.23	0.167	2.00	Pass	
		RB8#0	23.08	-1.85	21.23	0.133	2.00	Pass	
		RB8#4	23.12	-1.85	21.27	0.134	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		
<b>LTE BAND2</b>											
		16-QAM	RB8#7	23.05	-1.85	21.20	0.132	2.00	Pass		
			RB15#0	23.08	-1.85	21.23	0.133	2.00	Pass		
			RB1#0	23.04	-1.85	21.19	0.132	2.00	Pass		
			RB1#7	22.99	-1.85	21.14	0.130	2.00	Pass		
			RB1#14	22.98	-1.85	21.13	0.130	2.00	Pass		
			RB8#0	22.13	-1.85	20.28	0.107	2.00	Pass		
			RB8#4	22.19	-1.85	20.34	0.108	2.00	Pass		
			RB8#7	22.12	-1.85	20.27	0.106	2.00	Pass		
					RB15#0	22.09	-1.85	20.24	0.106	2.00	Pass
		5 MHz	LCH	QPSK	RB1#0	23.79	-1.85	21.94	0.156	2.00	Pass
					RB1#13	23.89	-1.85	22.04	0.160	2.00	Pass
					RB1#24	23.72	-1.85	21.87	0.154	2.00	Pass
					RB12#0	22.79	-1.85	20.94	0.124	2.00	Pass
					RB12#6	22.8	-1.85	20.95	0.124	2.00	Pass
					RB12#13	22.78	-1.85	20.93	0.124	2.00	Pass
					RB25#0	22.78	-1.85	20.93	0.124	2.00	Pass
				16-QAM	RB1#0	22.93	-1.85	21.08	0.128	2.00	Pass
					RB1#13	23.05	-1.85	21.20	0.132	2.00	Pass
					RB1#24	22.97	-1.85	21.12	0.129	2.00	Pass
					RB12#0	21.94	-1.85	20.09	0.102	2.00	Pass
					RB12#6	21.97	-1.85	20.12	0.103	2.00	Pass
			RB12#13		21.98	-1.85	20.13	0.103	2.00	Pass	
				RB25#0	21.93	-1.85	20.08	0.102	2.00	Pass	
	MCH		QPSK	RB1#0	24.21	-1.85	22.36	0.172	2.00	Pass	
					RB1#13	24.34	-1.85	22.49	0.177	2.00	Pass
					RB1#24	24.23	-1.85	22.38	0.173	2.00	Pass
					RB12#0	23.22	-1.85	21.37	0.137	2.00	Pass
					RB12#6	23.25	-1.85	21.40	0.138	2.00	Pass
					RB12#13	23.2	-1.85	21.35	0.136	2.00	Pass
					RB25#0	23.2	-1.85	21.35	0.136	2.00	Pass
				16-QAM	RB1#0	23.71	-1.85	21.86	0.153	2.00	Pass
					RB1#13	23.8	-1.85	21.95	0.157	2.00	Pass
					RB1#24	23.7	-1.85	21.85	0.153	2.00	Pass
			RB12#0		22.46	-1.85	20.61	0.115	2.00	Pass	
			RB12#6		22.45	-1.85	20.60	0.115	2.00	Pass	
		RB12#13	22.46		-1.85	20.61	0.115	2.00	Pass		
			RB25#0	22.39	-1.85	20.54	0.113	2.00	Pass		
	HCH	QPSK	RB1#0	24.1	-1.85	22.25	0.168	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
<b>LTE BAND2</b>									
			RB1#13	24.19	-1.85	22.34	0.171	2.00	Pass
			RB1#24	24.12	-1.85	22.27	0.169	2.00	Pass
			RB12#0	23.07	-1.85	21.22	0.132	2.00	Pass
			RB12#6	23.1	-1.85	21.25	0.133	2.00	Pass
			RB12#13	23.09	-1.85	21.24	0.133	2.00	Pass
			RB25#0	23.03	-1.85	21.18	0.131	2.00	Pass
		16-QAM	RB1#0	23.13	-1.85	21.28	0.134	2.00	Pass
			RB1#13	23.17	-1.85	21.32	0.136	2.00	Pass
			RB1#24	23.11	-1.85	21.26	0.134	2.00	Pass
			RB12#0	22.19	-1.85	20.34	0.108	2.00	Pass
			RB12#6	22.21	-1.85	20.36	0.109	2.00	Pass
			RB12#13	22.15	-1.85	20.30	0.107	2.00	Pass
			RB25#0	22.05	-1.85	20.20	0.105	2.00	Pass
			10 MHz	LCH	QPSK	RB1#0	23.92	-1.85	22.07
RB1#25	23.82	-1.85				21.97	0.157	2.00	Pass
RB1#49	23.97	-1.85				22.12	0.163	2.00	Pass
RB25#0	22.76	-1.85				20.91	0.123	2.00	Pass
RB25#13	22.81	-1.85				20.96	0.125	2.00	Pass
RB25#25	22.88	-1.85				21.03	0.127	2.00	Pass
16-QAM	RB50#0	22.88			-1.85	21.03	0.127	2.00	Pass
	RB1#0	22.77			-1.85	20.92	0.124	2.00	Pass
	RB1#25	22.76			-1.85	20.91	0.123	2.00	Pass
	RB1#49	22.88			-1.85	21.03	0.127	2.00	Pass
	RB25#0	21.9			-1.85	20.05	0.101	2.00	Pass
	RB25#13	21.97			-1.85	20.12	0.103	2.00	Pass
	RB25#25	21.98			-1.85	20.13	0.103	2.00	Pass
	RB50#0	21.99			-1.85	20.14	0.103	2.00	Pass
10 MHz	MCH	QPSK	RB1#0	24.31	-1.85	22.46	0.176	2.00	Pass
			RB1#25	24.26	-1.85	22.41	0.174	2.00	Pass
			RB1#49	24.3	-1.85	22.45	0.176	2.00	Pass
			RB25#0	23.22	-1.85	21.37	0.137	2.00	Pass
			RB25#13	23.25	-1.85	21.40	0.138	2.00	Pass
			RB25#25	23.2	-1.85	21.35	0.136	2.00	Pass
		16-QAM	RB50#0	23.2	-1.85	21.35	0.136	2.00	Pass
			RB1#0	23.63	-1.85	21.78	0.151	2.00	Pass
			RB1#25	23.63	-1.85	21.78	0.151	2.00	Pass
			RB1#49	23.65	-1.85	21.80	0.151	2.00	Pass
			RB25#0	22.35	-1.85	20.50	0.112	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	
<b>LTE BAND2</b>										
15 MHz	HCH	QPSK	RB25#13	22.41	-1.85	20.56	0.114	2.00	Pass	
			RB25#25	22.36	-1.85	20.51	0.112	2.00	Pass	
			RB50#0	22.29	-1.85	20.44	0.111	2.00	Pass	
		16-QAM	QPSK	RB1#0	24.19	-1.85	22.34	0.171	2.00	Pass
				RB1#25	24.15	-1.85	22.30	0.170	2.00	Pass
				RB1#49	23.92	-1.85	22.07	0.161	2.00	Pass
			16-QAM	RB25#0	23.13	-1.85	21.28	0.134	2.00	Pass
				RB25#13	23.05	-1.85	21.20	0.132	2.00	Pass
				RB25#25	23.06	-1.85	21.21	0.132	2.00	Pass
	RB50#0			23.16	-1.85	21.31	0.135	2.00	Pass	
	RB1#0			23.14	-1.85	21.29	0.135	2.00	Pass	
	RB1#25			23.02	-1.85	21.17	0.131	2.00	Pass	
	LCH	QPSK	RB1#49	22.93	-1.85	21.08	0.128	2.00	Pass	
			RB25#0	22.29	-1.85	20.44	0.111	2.00	Pass	
			RB25#13	22.2	-1.85	20.35	0.108	2.00	Pass	
			RB25#25	22.2	-1.85	20.35	0.108	2.00	Pass	
			RB50#0	22.25	-1.85	20.40	0.110	2.00	Pass	
			RB1#0	23.75	-1.85	21.90	0.155	2.00	Pass	
		16-QAM	RB1#38	23.75	-1.85	21.90	0.155	2.00	Pass	
			RB1#74	23.85	-1.85	22.00	0.158	2.00	Pass	
			RB36#0	22.74	-1.85	20.89	0.123	2.00	Pass	
RB36#19			22.91	-1.85	21.06	0.128	2.00	Pass		
RB36#39			22.89	-1.85	21.04	0.127	2.00	Pass		
RB75#0			22.86	-1.85	21.01	0.126	2.00	Pass		
MCH	QPSK	RB1#0	22.66	-1.85	20.81	0.121	2.00	Pass		
		RB1#38	22.75	-1.85	20.90	0.123	2.00	Pass		
		RB1#74	22.79	-1.85	20.94	0.124	2.00	Pass		
		RB36#0	21.85	-1.85	20.00	0.100	2.00	Pass		
		RB36#19	22.03	-1.85	20.18	0.104	2.00	Pass		
		RB36#39	22	-1.85	20.15	0.104	2.00	Pass		
		RB75#0	22.03	-1.85	20.18	0.104	2.00	Pass		
		RB1#0	24.16	-1.85	22.31	0.170	2.00	Pass		
		RB1#38	24.18	-1.85	22.33	0.171	2.00	Pass		
RB1#74	24.17	-1.85	22.32	0.171	2.00	Pass				
RB36#0	23.14	-1.85	21.29	0.135	2.00	Pass				
RB36#19	23.19	-1.85	21.34	0.136	2.00	Pass				
RB36#39	23.18	-1.85	21.33	0.136	2.00	Pass				
RB75#0	23.21	-1.85	21.36	0.137	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
<b>LTE BAND2</b>									
20 MHz	HCH	16-QAM	RB1#0	23.53	-1.85	21.68	0.147	2.00	Pass
			RB1#38	23.57	-1.85	21.72	0.149	2.00	Pass
			RB1#74	23.56	-1.85	21.71	0.148	2.00	Pass
			RB36#0	22.31	-1.85	20.46	0.111	2.00	Pass
			RB36#19	22.39	-1.85	20.54	0.113	2.00	Pass
			RB36#39	22.34	-1.85	20.49	0.112	2.00	Pass
			RB75#0	22.35	-1.85	20.50	0.112	2.00	Pass
		QPSK	RB1#0	24.15	-1.85	22.30	0.170	2.00	Pass
			RB1#38	24.06	-1.85	22.21	0.166	2.00	Pass
			RB1#74	23.77	-1.85	21.92	0.156	2.00	Pass
			RB36#0	23.09	-1.85	21.24	0.133	2.00	Pass
			RB36#19	23.16	-1.85	21.31	0.135	2.00	Pass
			RB36#39	23.07	-1.85	21.22	0.132	2.00	Pass
			RB75#0	23.14	-1.85	21.29	0.135	2.00	Pass
	16-QAM	RB1#0	23.43	-1.85	21.58	0.144	2.00	Pass	
		RB1#38	23.35	-1.85	21.50	0.141	2.00	Pass	
		RB1#74	23.17	-1.85	21.32	0.136	2.00	Pass	
		RB36#0	22.19	-1.85	20.34	0.108	2.00	Pass	
		RB36#19	22.26	-1.85	20.41	0.110	2.00	Pass	
		RB36#39	22.13	-1.85	20.28	0.107	2.00	Pass	
		RB75#0	22.26	-1.85	20.41	0.110	2.00	Pass	
	LCH	QPSK	RB1#0	23.8	-1.85	21.95	0.157	2.00	Pass
			RB1#50	23.92	-1.85	22.07	0.161	2.00	Pass
			RB1#99	23.92	-1.85	22.07	0.161	2.00	Pass
			RB50#0	22.9	-1.85	21.05	0.127	2.00	Pass
			RB50#25	22.93	-1.85	21.08	0.128	2.00	Pass
			RB50#50	22.93	-1.85	21.08	0.128	2.00	Pass
			RB100#0	22.91	-1.85	21.06	0.128	2.00	Pass
16-QAM		RB1#0	23.3	-1.85	21.45	0.140	2.00	Pass	
		RB1#50	23.46	-1.85	21.61	0.145	2.00	Pass	
		RB1#99	23.51	-1.85	21.66	0.147	2.00	Pass	
		RB50#0	22.06	-1.85	20.21	0.105	2.00	Pass	
		RB50#25	22.12	-1.85	20.27	0.106	2.00	Pass	
		RB50#50	22.06	-1.85	20.21	0.105	2.00	Pass	
		RB100#0	22.07	-1.85	20.22	0.105	2.00	Pass	
MCH	QPSK	RB1#0	24.11	-1.85	22.26	0.168	2.00	Pass	
		RB1#50	24.25	-1.85	22.40	0.174	2.00	Pass	
		RB1#99	24.17	-1.85	22.32	0.171	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		
<b>LTE BAND2</b>											
			RB50#0	23.17	-1.85	21.32	0.136	2.00	Pass		
			RB50#25	23.22	-1.85	21.37	0.137	2.00	Pass		
			RB50#50	23.23	-1.85	21.38	0.137	2.00	Pass		
			RB100#0	23.24	-1.85	21.39	0.138	2.00	Pass		
		16-QAM	RB1#0	23.48	-1.85	21.63	0.146	2.00	Pass		
			RB1#50	23.65	-1.85	21.80	0.151	2.00	Pass		
			RB1#99	23.54	-1.85	21.69	0.148	2.00	Pass		
			RB50#0	22.31	-1.85	20.46	0.111	2.00	Pass		
			RB50#25	22.38	-1.85	20.53	0.113	2.00	Pass		
			RB50#50	22.36	-1.85	20.51	0.112	2.00	Pass		
			RB100#0	22.33	-1.85	20.48	0.112	2.00	Pass		
			HCH	QPSK	RB1#0	24.05	-1.85	22.20	0.166	2.00	Pass
					RB1#50	24.11	-1.85	22.26	0.168	2.00	Pass
					RB1#99	23.66	-1.85	21.81	0.152	2.00	Pass
	RB50#0	23.14			-1.85	21.29	0.135	2.00	Pass		
	RB50#25	23.17			-1.85	21.32	0.136	2.00	Pass		
	RB50#50	23.15			-1.85	21.30	0.135	2.00	Pass		
	RB100#0	23.08			-1.85	21.23	0.133	2.00	Pass		
	16-QAM	RB1#0	23.46	-1.85	21.61	0.145	2.00	Pass			
		RB1#50	23.46	-1.85	21.61	0.145	2.00	Pass			
		RB1#99	23.09	-1.85	21.24	0.133	2.00	Pass			
		RB50#0	22.14	-1.85	20.29	0.107	2.00	Pass			
		RB50#25	22.19	-1.85	20.34	0.108	2.00	Pass			
		RB50#50	22.2	-1.85	20.35	0.108	2.00	Pass			
		RB100#0	22.17	-1.85	20.32	0.108	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
<b>LTE BAND4</b>									
1.4 MHz	LCH	QPSK	RB1#0	23.66	-2.85	20.81	0.121	1.00	Pass
			RB1#3	23.73	-2.85	20.88	0.122	1.00	Pass
			RB1#5	23.66	-2.85	20.81	0.121	1.00	Pass
			RB3#0	23.82	-2.85	20.97	0.125	1.00	Pass
			RB3#2	23.89	-2.85	21.04	0.127	1.00	Pass
			RB3#3	23.73	-2.85	20.88	0.122	1.00	Pass
		RB6#0	22.54	-2.85	19.69	0.093	1.00	Pass	
		16-QAM	RB1#0	22.82	-2.85	19.97	0.099	1.00	Pass
			RB1#3	22.92	-2.85	20.07	0.102	1.00	Pass
			RB1#5	22.84	-2.85	19.99	0.100	1.00	Pass
			RB3#0	22.93	-2.85	20.08	0.102	1.00	Pass
			RB3#2	23	-2.85	20.15	0.104	1.00	Pass
	RB3#3		22.96	-2.85	20.11	0.103	1.00	Pass	
	RB6#0	21.88	-2.85	19.03	0.080	1.00	Pass		
	MCH	QPSK	RB1#0	23.88	-2.85	21.03	0.127	1.00	Pass
			RB1#3	23.93	-2.85	21.08	0.128	1.00	Pass
			RB1#5	23.87	-2.85	21.02	0.126	1.00	Pass
			RB3#0	23.93	-2.85	21.08	0.128	1.00	Pass
			RB3#2	23.99	-2.85	21.14	0.130	1.00	Pass
			RB3#3	23.9	-2.85	21.05	0.127	1.00	Pass
		RB6#0	22.82	-2.85	19.97	0.099	1.00	Pass	
		16-QAM	RB1#0	23.3	-2.85	20.45	0.111	1.00	Pass
			RB1#3	23.35	-2.85	20.50	0.112	1.00	Pass
			RB1#5	23.28	-2.85	20.43	0.110	1.00	Pass
			RB3#0	23.23	-2.85	20.38	0.109	1.00	Pass
			RB3#2	23.29	-2.85	20.44	0.111	1.00	Pass
	RB3#3		23.21	-2.85	20.36	0.109	1.00	Pass	
	RB6#0	21.88	-2.85	19.03	0.080	1.00	Pass		
	HCH	QPSK	RB1#0	23.93	-2.85	21.08	0.128	1.00	Pass
			RB1#3	23.99	-2.85	21.14	0.130	1.00	Pass
RB1#5			23.93	-2.85	21.08	0.128	1.00	Pass	
RB3#0			24.04	-2.85	21.19	0.132	1.00	Pass	
RB3#2			24.1	-2.85	21.25	0.133	1.00	Pass	
RB3#3			24.09	-2.85	21.24	0.133	1.00	Pass	
RB6#0		22.85	-2.85	20.00	0.100	1.00	Pass		
16-QAM		RB1#0	23.06	-2.85	20.21	0.105	1.00	Pass	
RB1#3	23.13	-2.85	20.28	0.107	1.00	Pass			

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND4</b>									
3 MHz			RB1#5	23.07	-2.85	20.22	0.105	1.00	Pass
			RB3#0	23.28	-2.85	20.43	0.110	1.00	Pass
			RB3#2	23.35	-2.85	20.50	0.112	1.00	Pass
			RB3#3	23.31	-2.85	20.46	0.111	1.00	Pass
			RB6#0	22.2	-2.85	19.35	0.086	1.00	Pass
	LCH	QPSK	RB1#0	23.61	-2.85	20.76	0.119	1.00	Pass
			RB1#7	23.66	-2.85	20.81	0.121	1.00	Pass
			RB1#14	23.6	-2.85	20.75	0.119	1.00	Pass
			RB8#0	22.73	-2.85	19.88	0.097	1.00	Pass
			RB8#4	22.74	-2.85	19.89	0.097	1.00	Pass
			RB8#7	22.71	-2.85	19.86	0.097	1.00	Pass
		16-QAM	RB15#0	22.76	-2.85	19.91	0.098	1.00	Pass
			RB1#0	22.72	-2.85	19.87	0.097	1.00	Pass
			RB1#7	22.74	-2.85	19.89	0.097	1.00	Pass
			RB1#14	22.69	-2.85	19.84	0.096	1.00	Pass
			RB8#0	22.01	-2.85	19.16	0.082	1.00	Pass
			RB8#4	22.01	-2.85	19.16	0.082	1.00	Pass
		MCH	QPSK	RB8#7	22.01	-2.85	19.16	0.082	1.00
	RB15#0			21.9	-2.85	19.05	0.080	1.00	Pass
	RB1#0			23.92	-2.85	21.07	0.128	1.00	Pass
	RB1#7			23.92	-2.85	21.07	0.128	1.00	Pass
	RB1#14			23.85	-2.85	21.00	0.126	1.00	Pass
	RB8#0			22.97	-2.85	20.12	0.103	1.00	Pass
	16-QAM		RB8#4	22.97	-2.85	20.12	0.103	1.00	Pass
			RB8#7	22.93	-2.85	20.08	0.102	1.00	Pass
			RB15#0	22.97	-2.85	20.12	0.103	1.00	Pass
			RB1#0	23.37	-2.85	20.52	0.113	1.00	Pass
			RB1#7	23.31	-2.85	20.46	0.111	1.00	Pass
RB1#14			23.31	-2.85	20.46	0.111	1.00	Pass	
HCH	QPSK	RB8#0	22.13	-2.85	19.28	0.085	1.00	Pass	
		RB8#4	22.18	-2.85	19.33	0.086	1.00	Pass	
		RB8#7	22.08	-2.85	19.23	0.084	1.00	Pass	
		RB15#0	22.12	-2.85	19.27	0.085	1.00	Pass	
		RB1#0	23.87	-2.85	21.02	0.126	1.00	Pass	
			RB1#7	23.99	-2.85	21.14	0.130	1.00	Pass
			RB1#14	23.96	-2.85	21.11	0.129	1.00	Pass
			RB8#0	22.92	-2.85	20.07	0.102	1.00	Pass
			RB8#4	22.97	-2.85	20.12	0.103	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
<b>LTE BAND4</b>											
		16-QAM	RB8#7	22.98	-2.85	20.13	0.103	1.00	Pass		
			RB15#0	22.96	-2.85	20.11	0.103	1.00	Pass		
			RB1#0	23.06	-2.85	20.21	0.105	1.00	Pass		
			RB1#7	23.13	-2.85	20.28	0.107	1.00	Pass		
			RB1#14	23.13	-2.85	20.28	0.107	1.00	Pass		
			RB8#0	22.12	-2.85	19.27	0.085	1.00	Pass		
			RB8#4	22.15	-2.85	19.30	0.085	1.00	Pass		
			RB8#7	22.13	-2.85	19.28	0.085	1.00	Pass		
					RB15#0	22.06	-2.85	19.21	0.083	1.00	Pass
		5 MHz	LCH	QPSK	RB1#0	23.58	-2.85	20.73	0.118	1.00	Pass
					RB1#13	23.73	-2.85	20.88	0.122	1.00	Pass
					RB1#24	23.73	-2.85	20.88	0.122	1.00	Pass
					RB12#0	22.75	-2.85	19.90	0.098	1.00	Pass
					RB12#6	22.78	-2.85	19.93	0.098	1.00	Pass
					RB12#13	22.84	-2.85	19.99	0.100	1.00	Pass
							RB25#0	22.89	-2.85	20.04	0.101
				16-QAM	RB1#0	22.92	-2.85	20.07	0.102	1.00	Pass
					RB1#13	23.04	-2.85	20.19	0.104	1.00	Pass
					RB1#24	23.04	-2.85	20.19	0.104	1.00	Pass
					RB12#0	21.96	-2.85	19.11	0.081	1.00	Pass
					RB12#6	22.02	-2.85	19.17	0.083	1.00	Pass
			RB12#13		22.08	-2.85	19.23	0.084	1.00	Pass	
				RB25#0	22.04	-2.85	19.19	0.083	1.00	Pass	
	MCH		QPSK	RB1#0	24.02	-2.85	21.17	0.131	1.00	Pass	
					RB1#13	24.01	-2.85	21.16	0.131	1.00	Pass
					RB1#24	23.92	-2.85	21.07	0.128	1.00	Pass
					RB12#0	23	-2.85	20.15	0.104	1.00	Pass
					RB12#6	23.01	-2.85	20.16	0.104	1.00	Pass
					RB12#13	22.95	-2.85	20.10	0.102	1.00	Pass
					RB25#0	22.97	-2.85	20.12	0.103	1.00	Pass
				16-QAM	RB1#0	23.56	-2.85	20.71	0.118	1.00	Pass
					RB1#13	23.6	-2.85	20.75	0.119	1.00	Pass
					RB1#24	23.53	-2.85	20.68	0.117	1.00	Pass
			RB12#0		22.3	-2.85	19.45	0.088	1.00	Pass	
			RB12#6		22.27	-2.85	19.42	0.087	1.00	Pass	
		RB12#13	22.19		-2.85	19.34	0.086	1.00	Pass		
			RB25#0	22.16	-2.85	19.31	0.085	1.00	Pass		
	HCH	QPSK	RB1#0	24	-2.85	21.15	0.130	1.00	Pass		

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND4</b>									
			RB1#13	24.1	-2.85	21.25	0.133	1.00	Pass
			RB1#24	24.05	-2.85	21.20	0.132	1.00	Pass
			RB12#0	23.08	-2.85	20.23	0.105	1.00	Pass
			RB12#6	23.1	-2.85	20.25	0.106	1.00	Pass
			RB12#13	23.04	-2.85	20.19	0.104	1.00	Pass
			RB25#0	23.06	-2.85	20.21	0.105	1.00	Pass
		16-QAM	RB1#0	23.24	-2.85	20.39	0.109	1.00	Pass
			RB1#13	23.3	-2.85	20.45	0.111	1.00	Pass
			RB1#24	23.25	-2.85	20.40	0.110	1.00	Pass
			RB12#0	22.31	-2.85	19.46	0.088	1.00	Pass
			RB12#6	22.28	-2.85	19.43	0.088	1.00	Pass
			RB12#13	22.27	-2.85	19.42	0.087	1.00	Pass
			RB25#0	22.17	-2.85	19.32	0.086	1.00	Pass
			10 MHz	LCH	QPSK	RB1#0	23.76	-2.85	20.91
RB1#25	23.88	-2.85				21.03	0.127	1.00	Pass
RB1#49	23.77	-2.85				20.92	0.124	1.00	Pass
RB25#0	22.95	-2.85				20.10	0.102	1.00	Pass
RB25#13	22.98	-2.85				20.13	0.103	1.00	Pass
RB25#25	22.89	-2.85				20.04	0.101	1.00	Pass
16-QAM	RB50#0	22.95			-2.85	20.10	0.102	1.00	Pass
	RB1#0	22.82			-2.85	19.97	0.099	1.00	Pass
	RB1#25	22.88			-2.85	20.03	0.101	1.00	Pass
	RB1#49	22.8			-2.85	19.95	0.099	1.00	Pass
	RB25#0	22.16			-2.85	19.31	0.085	1.00	Pass
	RB25#13	22.13			-2.85	19.28	0.085	1.00	Pass
	RB25#25	22.09			-2.85	19.24	0.084	1.00	Pass
	RB50#0	22.1			-2.85	19.25	0.084	1.00	Pass
10 MHz	MCH	QPSK	RB1#0	23.95	-2.85	21.10	0.129	1.00	Pass
			RB1#25	23.9	-2.85	21.05	0.127	1.00	Pass
			RB1#49	23.89	-2.85	21.04	0.127	1.00	Pass
			RB25#0	23.07	-2.85	20.22	0.105	1.00	Pass
			RB25#13	23.01	-2.85	20.16	0.104	1.00	Pass
			RB25#25	22.94	-2.85	20.09	0.102	1.00	Pass
		16-QAM	RB50#0	23.02	-2.85	20.17	0.104	1.00	Pass
			RB1#0	23.35	-2.85	20.50	0.112	1.00	Pass
			RB1#25	23.33	-2.85	20.48	0.112	1.00	Pass
			RB1#49	23.34	-2.85	20.49	0.112	1.00	Pass
			RB25#0	22.2	-2.85	19.35	0.086	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND4</b>									
15 MHz	HCH	QPSK	RB25#13	22.16	-2.85	19.31	0.085	1.00	Pass
			RB25#25	22.09	-2.85	19.24	0.084	1.00	Pass
			RB50#0	22.14	-2.85	19.29	0.085	1.00	Pass
		16-QAM	RB1#0	23.89	-2.85	21.04	0.127	1.00	Pass
			RB1#25	23.91	-2.85	21.06	0.128	1.00	Pass
			RB1#49	23.99	-2.85	21.14	0.130	1.00	Pass
			RB25#0	22.93	-2.85	20.08	0.102	1.00	Pass
			RB25#13	22.91	-2.85	20.06	0.101	1.00	Pass
			RB25#25	22.98	-2.85	20.13	0.103	1.00	Pass
		16-QAM	RB50#0	22.89	-2.85	20.04	0.101	1.00	Pass
			RB1#0	23.03	-2.85	20.18	0.104	1.00	Pass
			RB1#25	23.05	-2.85	20.20	0.105	1.00	Pass
			RB1#49	23.07	-2.85	20.22	0.105	1.00	Pass
			RB25#0	22.16	-2.85	19.31	0.085	1.00	Pass
			RB25#13	22.16	-2.85	19.31	0.085	1.00	Pass
	LCH	QPSK	RB25#25	22.17	-2.85	19.32	0.086	1.00	Pass
			RB50#0	22.09	-2.85	19.24	0.084	1.00	Pass
			RB1#0	23.73	-2.85	20.88	0.122	1.00	Pass
			RB1#38	23.81	-2.85	20.96	0.125	1.00	Pass
			RB1#74	23.75	-2.85	20.90	0.123	1.00	Pass
			RB36#0	22.91	-2.85	20.06	0.101	1.00	Pass
RB36#19			22.91	-2.85	20.06	0.101	1.00	Pass	
16-QAM		RB36#39	22.94	-2.85	20.09	0.102	1.00	Pass	
		RB75#0	22.83	-2.85	19.98	0.100	1.00	Pass	
		RB1#0	22.8	-2.85	19.95	0.099	1.00	Pass	
		RB1#38	22.86	-2.85	20.01	0.100	1.00	Pass	
		RB1#74	22.74	-2.85	19.89	0.097	1.00	Pass	
		RB36#0	22.03	-2.85	19.18	0.083	1.00	Pass	
		RB36#19	22	-2.85	19.15	0.082	1.00	Pass	
		RB36#39	22.06	-2.85	19.21	0.083	1.00	Pass	
MCH	QPSK	RB75#0	22	-2.85	19.15	0.082	1.00	Pass	
		RB1#0	23.97	-2.85	21.12	0.129	1.00	Pass	
		RB1#38	23.9	-2.85	21.05	0.127	1.00	Pass	
		RB1#74	23.87	-2.85	21.02	0.126	1.00	Pass	
		RB36#0	23.04	-2.85	20.19	0.104	1.00	Pass	
		RB36#19	22.96	-2.85	20.11	0.103	1.00	Pass	
		RB36#39	22.88	-2.85	20.03	0.101	1.00	Pass	
RB75#0	22.98	-2.85	20.13	0.103	1.00	Pass			

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND4</b>									
20 MHz	HCH	16-QAM	RB1#0	23.4	-2.85	20.55	0.114	1.00	Pass
			RB1#38	23.32	-2.85	20.47	0.111	1.00	Pass
			RB1#74	23.36	-2.85	20.51	0.112	1.00	Pass
			RB36#0	22.23	-2.85	19.38	0.087	1.00	Pass
			RB36#19	22.16	-2.85	19.31	0.085	1.00	Pass
			RB36#39	22.02	-2.85	19.17	0.083	1.00	Pass
			RB75#0	22.15	-2.85	19.30	0.085	1.00	Pass
		QPSK	RB1#0	23.89	-2.85	21.04	0.127	1.00	Pass
			RB1#38	23.94	-2.85	21.09	0.129	1.00	Pass
			RB1#74	24.01	-2.85	21.16	0.131	1.00	Pass
			RB36#0	22.96	-2.85	20.11	0.103	1.00	Pass
			RB36#19	23.02	-2.85	20.17	0.104	1.00	Pass
			RB36#39	22.94	-2.85	20.09	0.102	1.00	Pass
			RB75#0	23.01	-2.85	20.16	0.104	1.00	Pass
	16-QAM	RB1#0	23.35	-2.85	20.50	0.112	1.00	Pass	
		RB1#38	23.4	-2.85	20.55	0.114	1.00	Pass	
		RB1#74	23.51	-2.85	20.66	0.116	1.00	Pass	
		RB36#0	22.06	-2.85	19.21	0.083	1.00	Pass	
		RB36#19	22.16	-2.85	19.31	0.085	1.00	Pass	
		RB36#39	22.04	-2.85	19.19	0.083	1.00	Pass	
		RB75#0	22.13	-2.85	19.28	0.085	1.00	Pass	
	LCH	QPSK	RB1#0	23.72	-2.85	20.87	0.122	1.00	Pass
			RB1#50	23.79	-2.85	20.94	0.124	1.00	Pass
			RB1#99	23.73	-2.85	20.88	0.122	1.00	Pass
			RB50#0	22.95	-2.85	20.10	0.102	1.00	Pass
			RB50#25	22.99	-2.85	20.14	0.103	1.00	Pass
			RB50#50	22.9	-2.85	20.05	0.101	1.00	Pass
			RB100#0	22.97	-2.85	20.12	0.103	1.00	Pass
16-QAM		RB1#0	23.41	-2.85	20.56	0.114	1.00	Pass	
		RB1#50	23.42	-2.85	20.57	0.114	1.00	Pass	
		RB1#99	23.34	-2.85	20.49	0.112	1.00	Pass	
		RB50#0	22.11	-2.85	19.26	0.084	1.00	Pass	
		RB50#25	22.13	-2.85	19.28	0.085	1.00	Pass	
		RB50#50	22.04	-2.85	19.19	0.083	1.00	Pass	
		RB100#0	22.11	-2.85	19.26	0.084	1.00	Pass	
MCH	QPSK	RB1#0	24.05	-2.85	21.20	0.132	1.00	Pass	
		RB1#50	23.91	-2.85	21.06	0.128	1.00	Pass	
		RB1#99	23.91	-2.85	21.06	0.128	1.00	Pass	

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
<b>LTE BAND4</b>										
			RB50#0	23.14	-2.85	20.29	0.107	1.00	Pass	
			RB50#25	23.07	-2.85	20.22	0.105	1.00	Pass	
			RB50#50	23.01	-2.85	20.16	0.104	1.00	Pass	
			RB100#0	23.02	-2.85	20.17	0.104	1.00	Pass	
		16-QAM	RB1#0	23.54	-2.85	20.69	0.117	1.00	Pass	
			RB1#50	23.37	-2.85	20.52	0.113	1.00	Pass	
			RB1#99	23.37	-2.85	20.52	0.113	1.00	Pass	
			RB50#0	22.28	-2.85	19.43	0.088	1.00	Pass	
			RB50#25	22.18	-2.85	19.33	0.086	1.00	Pass	
			RB50#50	22.15	-2.85	19.30	0.085	1.00	Pass	
			RB100#0	22.13	-2.85	19.28	0.085	1.00	Pass	
			QPSK	RB1#0	23.74	-2.85	20.89	0.123	1.00	Pass
				RB1#50	23.74	-2.85	20.89	0.123	1.00	Pass
				RB1#99	23.91	-2.85	21.06	0.128	1.00	Pass
	RB50#0	22.87		-2.85	20.02	0.100	1.00	Pass		
	RB50#25	22.96		-2.85	20.11	0.103	1.00	Pass		
	RB50#50	22.9		-2.85	20.05	0.101	1.00	Pass		
	RB100#0	22.89		-2.85	20.04	0.101	1.00	Pass		
	16-QAM	RB1#0	23.28	-2.85	20.43	0.110	1.00	Pass		
		RB1#50	23.24	-2.85	20.39	0.109	1.00	Pass		
		RB1#99	23.45	-2.85	20.60	0.115	1.00	Pass		
		RB50#0	22.03	-2.85	19.18	0.083	1.00	Pass		
		RB50#25	22.09	-2.85	19.24	0.084	1.00	Pass		
		RB50#50	22.04	-2.85	19.19	0.083	1.00	Pass		
		RB100#0	21.98	-2.85	19.13	0.082	1.00	Pass		

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
<b>LTE BAND5</b>										
1.4 MHz	LCH	QPSK	RB1#0	24.11	-5.27	-7.42	16.69	0.047	7.00	Pass
			RB1#3	24.15	-5.27	-7.42	16.73	0.047	7.00	Pass
			RB1#5	24.12	-5.27	-7.42	16.70	0.047	7.00	Pass
			RB3#0	23.97	-5.27	-7.42	16.55	0.045	7.00	Pass
			RB3#2	24.05	-5.27	-7.42	16.63	0.046	7.00	Pass
			RB3#3	23.96	-5.27	-7.42	16.54	0.045	7.00	Pass
			RB6#0	23.11	-5.27	-7.42	15.69	0.037	7.00	Pass
		16-QAM	RB1#0	23.15	-5.27	-7.42	15.73	0.037	7.00	Pass
			RB1#3	23.2	-5.27	-7.42	15.78	0.038	7.00	Pass
			RB1#5	23.13	-5.27	-7.42	15.71	0.037	7.00	Pass
			RB3#0	23.07	-5.27	-7.42	15.65	0.037	7.00	Pass
			RB3#2	23.14	-5.27	-7.42	15.72	0.037	7.00	Pass
			RB3#3	23.03	-5.27	-7.42	15.61	0.036	7.00	Pass
			RB6#0	22.31	-5.27	-7.42	14.89	0.031	7.00	Pass
	MCH	QPSK	RB1#0	24.14	-5.27	-7.42	16.72	0.047	7.00	Pass
			RB1#3	24.18	-5.27	-7.42	16.76	0.047	7.00	Pass
			RB1#5	24.15	-5.27	-7.42	16.73	0.047	7.00	Pass
			RB3#0	24.05	-5.27	-7.42	16.63	0.046	7.00	Pass
			RB3#2	24.17	-5.27	-7.42	16.75	0.047	7.00	Pass
			RB3#3	24.04	-5.27	-7.42	16.62	0.046	7.00	Pass
			RB6#0	23.18	-5.27	-7.42	15.76	0.038	7.00	Pass
		16-QAM	RB1#0	23.45	-5.27	-7.42	16.03	0.040	7.00	Pass
			RB1#3	23.49	-5.27	-7.42	16.07	0.040	7.00	Pass
			RB1#5	23.48	-5.27	-7.42	16.06	0.040	7.00	Pass
			RB3#0	23.27	-5.27	-7.42	15.85	0.038	7.00	Pass
			RB3#2	23.36	-5.27	-7.42	15.94	0.039	7.00	Pass
			RB3#3	23.25	-5.27	-7.42	15.83	0.038	7.00	Pass
			RB6#0	22.12	-5.27	-7.42	14.70	0.030	7.00	Pass
	HCH	QPSK	RB1#0	24.3	-5.27	-7.42	16.88	0.049	7.00	Pass
			RB1#3	24.34	-5.27	-7.42	16.92	0.049	7.00	Pass
RB1#5			24.32	-5.27	-7.42	16.90	0.049	7.00	Pass	
RB3#0			24.13	-5.27	-7.42	16.71	0.047	7.00	Pass	
RB3#2			24.25	-5.27	-7.42	16.83	0.048	7.00	Pass	
RB3#3			24.17	-5.27	-7.42	16.75	0.047	7.00	Pass	
RB6#0			23.31	-5.27	-7.42	15.89	0.039	7.00	Pass	
16-QAM		RB1#0	23.19	-5.27	-7.42	15.77	0.038	7.00	Pass	
		RB1#3	23.23	-5.27	-7.42	15.81	0.038	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
<b>LTE BAND5</b>										
3 MHz			RB1#5	23.2	-5.27	-7.42	15.78	0.038	7.00	Pass
			RB3#0	23.28	-5.27	-7.42	15.86	0.039	7.00	Pass
			RB3#2	23.36	-5.27	-7.42	15.94	0.039	7.00	Pass
			RB3#3	23.27	-5.27	-7.42	15.85	0.038	7.00	Pass
			RB6#0	22.46	-5.27	-7.42	15.04	0.032	7.00	Pass
	LCH	QPSK	RB1#0	24.24	-5.27	-7.42	16.82	0.048	7.00	Pass
			RB1#7	24.18	-5.27	-7.42	16.76	0.047	7.00	Pass
			RB1#14	24.14	-5.27	-7.42	16.72	0.047	7.00	Pass
			RB8#0	23.21	-5.27	-7.42	15.79	0.038	7.00	Pass
			RB8#4	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
			RB8#7	23.17	-5.27	-7.42	15.75	0.038	7.00	Pass
		RB15#0	23.15	-5.27	-7.42	15.73	0.037	7.00	Pass	
		16-QAM	RB1#0	23.03	-5.27	-7.42	15.61	0.036	7.00	Pass
			RB1#7	23.03	-5.27	-7.42	15.61	0.036	7.00	Pass
			RB1#14	23	-5.27	-7.42	15.58	0.036	7.00	Pass
			RB8#0	22.34	-5.27	-7.42	14.92	0.031	7.00	Pass
			RB8#4	22.3	-5.27	-7.42	14.88	0.031	7.00	Pass
			RB8#7	22.31	-5.27	-7.42	14.89	0.031	7.00	Pass
	RB15#0	22.24	-5.27	-7.42	14.82	0.030	7.00	Pass		
	MCH	QPSK	RB1#0	24.23	-5.27	-7.42	16.81	0.048	7.00	Pass
			RB1#7	24.17	-5.27	-7.42	16.75	0.047	7.00	Pass
			RB1#14	24.2	-5.27	-7.42	16.78	0.048	7.00	Pass
			RB8#0	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
			RB8#4	23.31	-5.27	-7.42	15.89	0.039	7.00	Pass
			RB8#7	23.23	-5.27	-7.42	15.81	0.038	7.00	Pass
		RB15#0	23.22	-5.27	-7.42	15.80	0.038	7.00	Pass	
		16-QAM	RB1#0	23.55	-5.27	-7.42	16.13	0.041	7.00	Pass
			RB1#7	23.5	-5.27	-7.42	16.08	0.041	7.00	Pass
RB1#14			23.53	-5.27	-7.42	16.11	0.041	7.00	Pass	
RB8#0			22.35	-5.27	-7.42	14.93	0.031	7.00	Pass	
RB8#4			22.33	-5.27	-7.42	14.91	0.031	7.00	Pass	
RB8#7	22.32		-5.27	-7.42	14.90	0.031	7.00	Pass		
RB15#0	22.31	-5.27	-7.42	14.89	0.031	7.00	Pass			
HCH	QPSK	RB1#0	24.39	-5.27	-7.42	16.97	0.050	7.00	Pass	
		RB1#7	24.38	-5.27	-7.42	16.96	0.050	7.00	Pass	
		RB1#14	24.38	-5.27	-7.42	16.96	0.050	7.00	Pass	
		RB8#0	23.33	-5.27	-7.42	15.91	0.039	7.00	Pass	
		RB8#4	23.4	-5.27	-7.42	15.98	0.040	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	
<b>LTE BAND5</b>											
5 MHz	LCH	16-QAM	RB8#7	23.34	-5.27	-7.42	15.92	0.039	7.00	Pass	
			RB15#0	23.35	-5.27	-7.42	15.93	0.039	7.00	Pass	
			RB1#0	23.32	-5.27	-7.42	15.90	0.039	7.00	Pass	
			RB1#7	23.23	-5.27	-7.42	15.81	0.038	7.00	Pass	
			RB1#14	23.27	-5.27	-7.42	15.85	0.038	7.00	Pass	
			RB8#0	22.42	-5.27	-7.42	15.00	0.032	7.00	Pass	
			RB8#4	22.45	-5.27	-7.42	15.03	0.032	7.00	Pass	
			RB8#7	22.37	-5.27	-7.42	14.95	0.031	7.00	Pass	
	5 MHz	LCH	QPSK	RB1#0	24.17	-5.27	-7.42	16.75	0.047	7.00	Pass
				RB1#13	24.25	-5.27	-7.42	16.83	0.048	7.00	Pass
				RB1#24	24.13	-5.27	-7.42	16.71	0.047	7.00	Pass
				RB12#0	23.21	-5.27	-7.42	15.79	0.038	7.00	Pass
				RB12#6	23.19	-5.27	-7.42	15.77	0.038	7.00	Pass
				RB12#13	23.13	-5.27	-7.42	15.71	0.037	7.00	Pass
				RB25#0	23.17	-5.27	-7.42	15.75	0.038	7.00	Pass
				MCH	16-QAM	RB1#0	23.29	-5.27	-7.42	15.87	0.039
RB1#13		23.35	-5.27			-7.42	15.93	0.039	7.00	Pass	
RB1#24		23.27	-5.27			-7.42	15.85	0.038	7.00	Pass	
RB12#0		22.29	-5.27			-7.42	14.87	0.031	7.00	Pass	
RB12#6		22.27	-5.27			-7.42	14.85	0.031	7.00	Pass	
RB12#13		22.24	-5.27			-7.42	14.82	0.030	7.00	Pass	
RB25#0		22.2	-5.27			-7.42	14.78	0.030	7.00	Pass	
MCH		QPSK	RB1#0			24.24	-5.27	-7.42	16.82	0.048	7.00
			RB1#13	24.29	-5.27	-7.42	16.87	0.049	7.00	Pass	
	RB1#24		24.2	-5.27	-7.42	16.78	0.048	7.00	Pass		
	RB12#0		23.23	-5.27	-7.42	15.81	0.038	7.00	Pass		
	RB12#6		23.25	-5.27	-7.42	15.83	0.038	7.00	Pass		
	RB12#13		23.23	-5.27	-7.42	15.81	0.038	7.00	Pass		
	RB25#0		23.2	-5.27	-7.42	15.78	0.038	7.00	Pass		
	MCH		16-QAM	RB1#0	23.68	-5.27	-7.42	16.26	0.042	7.00	Pass
RB1#13		23.75		-5.27	-7.42	16.33	0.043	7.00	Pass		
RB1#24		23.66		-5.27	-7.42	16.24	0.042	7.00	Pass		
RB12#0		22.41		-5.27	-7.42	14.99	0.032	7.00	Pass		
RB12#6		22.44		-5.27	-7.42	15.02	0.032	7.00	Pass		
RB12#13		22.35		-5.27	-7.42	14.93	0.031	7.00	Pass		
RB25#0		22.34		-5.27	-7.42	14.92	0.031	7.00	Pass		
HCH		QPSK		RB1#0	24.27	-5.27	-7.42	16.85	0.048	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
<b>LTE BAND5</b>										
			RB1#13	24.47	-5.27	-7.42	17.05	0.051	7.00	Pass
			RB1#24	24.34	-5.27	-7.42	16.92	0.049	7.00	Pass
			RB12#0	23.33	-5.27	-7.42	15.91	0.039	7.00	Pass
			RB12#6	23.39	-5.27	-7.42	15.97	0.040	7.00	Pass
			RB12#13	23.37	-5.27	-7.42	15.95	0.039	7.00	Pass
			RB25#0	23.25	-5.27	-7.42	15.83	0.038	7.00	Pass
		16-QAM	RB1#0	23.34	-5.27	-7.42	15.92	0.039	7.00	Pass
			RB1#13	23.45	-5.27	-7.42	16.03	0.040	7.00	Pass
			RB1#24	23.4	-5.27	-7.42	15.98	0.040	7.00	Pass
			RB12#0	22.33	-5.27	-7.42	14.91	0.031	7.00	Pass
			RB12#6	22.42	-5.27	-7.42	15.00	0.032	7.00	Pass
			RB12#13	22.41	-5.27	-7.42	14.99	0.032	7.00	Pass
			RB25#0	22.26	-5.27	-7.42	14.84	0.030	7.00	Pass
			10 MHz	LCH	QPSK	RB1#0	24.22	-5.27	-7.42	16.80
RB1#25	24.14	-5.27				-7.42	16.72	0.047	7.00	Pass
RB1#49	24.22	-5.27				-7.42	16.80	0.048	7.00	Pass
RB25#0	23.13	-5.27				-7.42	15.71	0.037	7.00	Pass
RB25#13	23.29	-5.27				-7.42	15.87	0.039	7.00	Pass
RB25#25	23.27	-5.27				-7.42	15.85	0.038	7.00	Pass
RB50#0	23.27	-5.27				-7.42	15.85	0.038	7.00	Pass
16-QAM	RB1#0	23.06			-5.27	-7.42	15.64	0.037	7.00	Pass
	RB1#25	23.01			-5.27	-7.42	15.59	0.036	7.00	Pass
	RB1#49	23.06			-5.27	-7.42	15.64	0.037	7.00	Pass
	RB25#0	22.25			-5.27	-7.42	14.83	0.030	7.00	Pass
	RB25#13	22.33			-5.27	-7.42	14.91	0.031	7.00	Pass
	RB25#25	22.25			-5.27	-7.42	14.83	0.030	7.00	Pass
	RB50#0	22.25			-5.27	-7.42	14.83	0.030	7.00	Pass
MCH	QPSK	RB1#0	24.23	-5.27	-7.42	16.81	0.048	7.00	Pass	
		RB1#25	24.2	-5.27	-7.42	16.78	0.048	7.00	Pass	
		RB1#49	24.24	-5.27	-7.42	16.82	0.048	7.00	Pass	
		RB25#0	23.28	-5.27	-7.42	15.86	0.039	7.00	Pass	
		RB25#13	23.29	-5.27	-7.42	15.87	0.039	7.00	Pass	
		RB25#25	23.23	-5.27	-7.42	15.81	0.038	7.00	Pass	
		RB50#0	23.25	-5.27	-7.42	15.83	0.038	7.00	Pass	
	16-QAM	RB1#0	23.54	-5.27	-7.42	16.12	0.041	7.00	Pass	
		RB1#25	23.52	-5.27	-7.42	16.10	0.041	7.00	Pass	
		RB1#49	23.6	-5.27	-7.42	16.18	0.041	7.00	Pass	
		RB25#0	22.33	-5.27	-7.42	14.91	0.031	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
<b>LTE BAND5</b>										
		QPSK	RB25#13	22.34	-5.27	-7.42	14.92	0.031	7.00	Pass
			RB25#25	22.26	-5.27	-7.42	14.84	0.030	7.00	Pass
			RB50#0	22.24	-5.27	-7.42	14.82	0.030	7.00	Pass
			RB1#0	24.35	-5.27	-7.42	16.93	0.049	7.00	Pass
			RB1#25	24.28	-5.27	-7.42	16.86	0.049	7.00	Pass
			RB1#49	24.35	-5.27	-7.42	16.93	0.049	7.00	Pass
			RB25#0	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
			RB25#13	23.26	-5.27	-7.42	15.84	0.038	7.00	Pass
			RB25#25	23.25	-5.27	-7.42	15.83	0.038	7.00	Pass
		RB50#0	23.24	-5.27	-7.42	15.82	0.038	7.00	Pass	
		16-QAM	RB1#0	23.28	-5.27	-7.42	15.86	0.039	7.00	Pass
			RB1#25	23.21	-5.27	-7.42	15.79	0.038	7.00	Pass
			RB1#49	23.2	-5.27	-7.42	15.78	0.038	7.00	Pass
			RB25#0	22.41	-5.27	-7.42	14.99	0.032	7.00	Pass
			RB25#13	22.4	-5.27	-7.42	14.98	0.031	7.00	Pass
			RB25#25	22.32	-5.27	-7.42	14.90	0.031	7.00	Pass
			RB50#0	22.34	-5.27	-7.42	14.92	0.031	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
<b>LTE BAND7</b>									
5 MHz	LCH	QPSK	RB1#0	23.8	-1.7	22.10	0.162	2.00	Pass
			RB1#13	23.91	-1.7	22.21	0.166	2.00	Pass
			RB1#24	23.8	-1.7	22.10	0.162	2.00	Pass
			RB12#0	22.87	-1.7	21.17	0.131	2.00	Pass
			RB12#6	22.89	-1.7	21.19	0.132	2.00	Pass
			RB12#13	22.86	-1.7	21.16	0.131	2.00	Pass
			RB25#0	22.86	-1.7	21.16	0.131	2.00	Pass
		16-QAM	RB1#0	23.05	-1.7	21.35	0.136	2.00	Pass
			RB1#13	23.13	-1.7	21.43	0.139	2.00	Pass
			RB1#24	23.1	-1.7	21.40	0.138	2.00	Pass
			RB12#0	22.03	-1.7	20.33	0.108	2.00	Pass
			RB12#6	22.07	-1.7	20.37	0.109	2.00	Pass
			RB12#13	22.05	-1.7	20.35	0.108	2.00	Pass
			RB25#0	21.98	-1.7	20.28	0.107	2.00	Pass
	MCH	QPSK	RB1#0	24.02	-1.7	22.32	0.171	2.00	Pass
			RB1#13	24.09	-1.7	22.39	0.173	2.00	Pass
			RB1#24	24.02	-1.7	22.32	0.171	2.00	Pass
			RB12#0	22.98	-1.7	21.28	0.134	2.00	Pass
			RB12#6	23.01	-1.7	21.31	0.135	2.00	Pass
			RB12#13	22.96	-1.7	21.26	0.134	2.00	Pass
			RB25#0	22.94	-1.7	21.24	0.133	2.00	Pass
		16-QAM	RB1#0	23.46	-1.7	21.76	0.150	2.00	Pass
			RB1#13	23.52	-1.7	21.82	0.152	2.00	Pass
			RB1#24	23.48	-1.7	21.78	0.151	2.00	Pass
			RB12#0	22.16	-1.7	20.46	0.111	2.00	Pass
			RB12#6	22.17	-1.7	20.47	0.111	2.00	Pass
			RB12#13	22.19	-1.7	20.49	0.112	2.00	Pass
			RB25#0	22.08	-1.7	20.38	0.109	2.00	Pass
	HCH	QPSK	RB1#0	23.68	-1.7	21.98	0.158	2.00	Pass
			RB1#13	23.74	-1.7	22.04	0.160	2.00	Pass
			RB1#24	23.72	-1.7	22.02	0.159	2.00	Pass
			RB12#0	22.76	-1.7	21.06	0.128	2.00	Pass
			RB12#6	22.78	-1.7	21.08	0.128	2.00	Pass
			RB12#13	22.75	-1.7	21.05	0.127	2.00	Pass
			RB25#0	22.75	-1.7	21.05	0.127	2.00	Pass
		16-QAM	RB1#0	22.88	-1.7	21.18	0.131	2.00	Pass
RB1#13			22.95	-1.7	21.25	0.133	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	
<b>LTE BAND7</b>										
10 MHz			RB1#24	22.91	-1.7	21.21	0.132	2.00	Pass	
			RB12#0	21.89	-1.7	20.19	0.104	2.00	Pass	
			RB12#6	21.92	-1.7	20.22	0.105	2.00	Pass	
			RB12#13	21.88	-1.7	20.18	0.104	2.00	Pass	
			RB25#0	21.8	-1.7	20.10	0.102	2.00	Pass	
	LCH	QPSK	RB1#0	23.86	-1.7	22.16	0.164	2.00	Pass	
			RB1#25	23.79	-1.7	22.09	0.162	2.00	Pass	
			RB1#49	23.82	-1.7	22.12	0.163	2.00	Pass	
			RB25#0	22.87	-1.7	21.17	0.131	2.00	Pass	
			RB25#13	22.92	-1.7	21.22	0.132	2.00	Pass	
			RB25#25	22.9	-1.7	21.20	0.132	2.00	Pass	
			RB50#0	22.92	-1.7	21.22	0.132	2.00	Pass	
		16-QAM	RB1#0	22.79	-1.7	21.09	0.129	2.00	Pass	
			RB1#25	22.82	-1.7	21.12	0.129	2.00	Pass	
			RB1#49	22.81	-1.7	21.11	0.129	2.00	Pass	
			RB25#0	21.99	-1.7	20.29	0.107	2.00	Pass	
			RB25#13	22.02	-1.7	20.32	0.108	2.00	Pass	
			RB25#25	22.03	-1.7	20.33	0.108	2.00	Pass	
		MCH	QPSK	RB1#0	24.01	-1.7	22.31	0.170	2.00	Pass
				RB1#25	23.99	-1.7	22.29	0.169	2.00	Pass
	RB1#49			24	-1.7	22.30	0.170	2.00	Pass	
	RB25#0			23.01	-1.7	21.31	0.135	2.00	Pass	
	RB25#13			22.99	-1.7	21.29	0.135	2.00	Pass	
	RB25#25			22.98	-1.7	21.28	0.134	2.00	Pass	
	RB50#0			22.97	-1.7	21.27	0.134	2.00	Pass	
	16-QAM		RB1#0	23.33	-1.7	21.63	0.146	2.00	Pass	
			RB1#25	23.28	-1.7	21.58	0.144	2.00	Pass	
			RB1#49	23.31	-1.7	21.61	0.145	2.00	Pass	
			RB25#0	22.06	-1.7	20.36	0.109	2.00	Pass	
			RB25#13	22.11	-1.7	20.41	0.110	2.00	Pass	
RB25#25			22.04	-1.7	20.34	0.108	2.00	Pass		
RB50#0			22.04	-1.7	20.34	0.108	2.00	Pass		
HCH			QPSK	RB1#0	23.75	-1.7	22.05	0.160	2.00	Pass
	RB1#25	23.71		-1.7	22.01	0.159	2.00	Pass		
	RB1#49	23.77		-1.7	22.07	0.161	2.00	Pass		
	RB25#0	22.75		-1.7	21.05	0.127	2.00	Pass		
	RB25#13	22.8		-1.7	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		
<b>LTE BAND7</b>											
		16-QAM	RB25#25	22.74	-1.7	21.04	0.127	2.00	Pass		
			RB50#0	22.79	-1.7	21.09	0.129	2.00	Pass		
			RB1#0	22.81	-1.7	21.11	0.129	2.00	Pass		
			RB1#25	22.76	-1.7	21.06	0.128	2.00	Pass		
			RB1#49	22.78	-1.7	21.08	0.128	2.00	Pass		
			RB25#0	21.97	-1.7	20.27	0.106	2.00	Pass		
			RB25#13	21.97	-1.7	20.27	0.106	2.00	Pass		
			RB25#25	21.96	-1.7	20.26	0.106	2.00	Pass		
					RB50#0	21.93	-1.7	20.23	0.105	2.00	Pass
		15 MHz	LCH	QPSK	RB1#0	23.85	-1.7	22.15	0.164	2.00	Pass
					RB1#38	23.77	-1.7	22.07	0.161	2.00	Pass
					RB1#74	23.84	-1.7	22.14	0.164	2.00	Pass
					RB36#0	22.85	-1.7	21.15	0.130	2.00	Pass
					RB36#19	22.92	-1.7	21.22	0.132	2.00	Pass
					RB36#39	22.84	-1.7	21.14	0.130	2.00	Pass
					RB75#0	22.85	-1.7	21.15	0.130	2.00	Pass
				16-QAM	RB1#0	22.85	-1.7	21.15	0.130	2.00	Pass
					RB1#38	22.78	-1.7	21.08	0.128	2.00	Pass
					RB1#74	22.84	-1.7	21.14	0.130	2.00	Pass
					RB36#0	21.99	-1.7	20.29	0.107	2.00	Pass
					RB36#19	22	-1.7	20.30	0.107	2.00	Pass
					RB36#39	21.99	-1.7	20.29	0.107	2.00	Pass
					RB75#0	21.98	-1.7	20.28	0.107	2.00	Pass
	MCH		QPSK	RB1#0	24	-1.7	22.30	0.170	2.00	Pass	
					RB1#38	23.98	-1.7	22.28	0.169	2.00	Pass
					RB1#74	23.98	-1.7	22.28	0.169	2.00	Pass
					RB36#0	23.02	-1.7	21.32	0.136	2.00	Pass
					RB36#19	23.02	-1.7	21.32	0.136	2.00	Pass
					RB36#39	23.01	-1.7	21.31	0.135	2.00	Pass
					RB75#0	23	-1.7	21.30	0.135	2.00	Pass
				16-QAM	RB1#0	23.38	-1.7	21.68	0.147	2.00	Pass
					RB1#38	23.26	-1.7	21.56	0.143	2.00	Pass
					RB1#74	23.33	-1.7	21.63	0.146	2.00	Pass
		RB36#0	22.14		-1.7	20.44	0.111	2.00	Pass		
		RB36#19	22.13		-1.7	20.43	0.110	2.00	Pass		
		RB36#39	22.12		-1.7	20.42	0.110	2.00	Pass		
		RB75#0	22.11		-1.7	20.41	0.110	2.00	Pass		
	HCH	QPSK	RB1#0	23.82	-1.7	22.12	0.163	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	
<b>LTE BAND7</b>										
			RB1#38	23.73	-1.7	22.03	0.160	2.00	Pass	
			RB1#74	23.75	-1.7	22.05	0.160	2.00	Pass	
			RB36#0	22.79	-1.7	21.09	0.129	2.00	Pass	
			RB36#19	22.8	-1.7	21.10	0.129	2.00	Pass	
			RB36#39	22.74	-1.7	21.04	0.127	2.00	Pass	
			RB75#0	22.81	-1.7	21.11	0.129	2.00	Pass	
		16-QAM	RB1#0	23.23	-1.7	21.53	0.142	2.00	Pass	
			RB1#38	23.14	-1.7	21.44	0.139	2.00	Pass	
			RB1#74	23.13	-1.7	21.43	0.139	2.00	Pass	
			RB36#0	21.85	-1.7	20.15	0.104	2.00	Pass	
			RB36#19	21.88	-1.7	20.18	0.104	2.00	Pass	
			RB36#39	21.86	-1.7	20.16	0.104	2.00	Pass	
			RB75#0	21.85	-1.7	20.15	0.104	2.00	Pass	
			20 MHz	LCH	QPSK	RB1#0	23.97	-1.7	22.27	0.169
RB1#50	23.87	-1.7				22.17	0.165	2.00	Pass	
RB1#99	24.03	-1.7				22.33	0.171	2.00	Pass	
RB50#0	23.04	-1.7				21.34	0.136	2.00	Pass	
RB50#25	23.03	-1.7				21.33	0.136	2.00	Pass	
RB50#50	23.1	-1.7				21.40	0.138	2.00	Pass	
16-QAM	RB100#0	23.07			-1.7	21.37	0.137	2.00	Pass	
	RB1#0	23.54			-1.7	21.84	0.153	2.00	Pass	
	RB1#50	23.48			-1.7	21.78	0.151	2.00	Pass	
	RB1#99	23.58			-1.7	21.88	0.154	2.00	Pass	
	RB50#0	22.16			-1.7	20.46	0.111	2.00	Pass	
	RB50#25	22.16			-1.7	20.46	0.111	2.00	Pass	
MCH	QPSK	RB50#50			22.22	-1.7	20.52	0.113	2.00	Pass
		RB100#0			22.21	-1.7	20.51	0.112	2.00	Pass
		RB1#0	24.04	-1.7	22.34	0.171	2.00	Pass		
		RB1#50	23.99	-1.7	22.29	0.169	2.00	Pass		
		RB1#99	23.97	-1.7	22.27	0.169	2.00	Pass		
		RB50#0	23	-1.7	21.30	0.135	2.00	Pass		
	16-QAM	RB50#25	23.05	-1.7	21.35	0.136	2.00	Pass		
		RB50#50	23	-1.7	21.30	0.135	2.00	Pass		
RB100#0		23	-1.7	21.30	0.135	2.00	Pass			
RB1#0		23.45	-1.7	21.75	0.150	2.00	Pass			
			RB1#50	23.34	-1.7	21.64	0.146	2.00	Pass	
			RB1#99	23.35	-1.7	21.65	0.146	2.00	Pass	
			RB50#0	22.15	-1.7	20.45	0.111	2.00	Pass	

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
<b>LTE BAND7</b>										
			RB50#25	22.12	-1.7	20.42	0.110	2.00	Pass	
			RB50#50	22.07	-1.7	20.37	0.109	2.00	Pass	
			RB100#0	22.08	-1.7	20.38	0.109	2.00	Pass	
	HCH	QPSK	RB1#0	23.77	-1.7	22.07	0.161	2.00	Pass	
			RB1#50	23.68	-1.7	21.98	0.158	2.00	Pass	
			RB1#99	23.7	-1.7	22.00	0.158	2.00	Pass	
			RB50#0	22.83	-1.7	21.13	0.130	2.00	Pass	
			RB50#25	22.86	-1.7	21.16	0.131	2.00	Pass	
			RB50#50	22.82	-1.7	21.12	0.129	2.00	Pass	
			RB100#0	22.81	-1.7	21.11	0.129	2.00	Pass	
			16-QAM	RB1#0	23.25	-1.7	21.55	0.143	2.00	Pass
				RB1#50	23.17	-1.7	21.47	0.140	2.00	Pass
		RB1#99		23.13	-1.7	21.43	0.139	2.00	Pass	
		RB50#0		21.95	-1.7	20.25	0.106	2.00	Pass	
		RB50#25		21.91	-1.7	20.21	0.105	2.00	Pass	
		RB50#50	21.84	-1.7	20.14	0.103	2.00	Pass		
		RB100#0	21.9	-1.7	20.20	0.105	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
<b>LTE BAND66</b>									
1.4 MHz	LCH	QPSK	RB1#0	23.74	-2.85	20.89	0.123	1.00	Pass
			RB1#3	23.73	-2.85	20.88	0.122	1.00	Pass
			RB1#5	23.66	-2.85	20.81	0.121	1.00	Pass
			RB3#0	23.82	-2.85	20.97	0.125	1.00	Pass
			RB3#2	23.88	-2.85	21.03	0.127	1.00	Pass
			RB3#3	23.86	-2.85	21.01	0.126	1.00	Pass
		RB6#0	22.65	-2.85	19.80	0.095	1.00	Pass	
		16-QAM	RB1#0	22.92	-2.85	20.07	0.102	1.00	Pass
			RB1#3	23.02	-2.85	20.17	0.104	1.00	Pass
			RB1#5	22.94	-2.85	20.09	0.102	1.00	Pass
			RB3#0	23.01	-2.85	20.16	0.104	1.00	Pass
			RB3#2	23.04	-2.85	20.19	0.104	1.00	Pass
	RB3#3		22.99	-2.85	20.14	0.103	1.00	Pass	
	RB6#0	21.93	-2.85	19.08	0.081	1.00	Pass		
	MCH	QPSK	RB1#0	23.89	-2.85	21.04	0.127	1.00	Pass
			RB1#3	23.97	-2.85	21.12	0.129	1.00	Pass
			RB1#5	23.88	-2.85	21.03	0.127	1.00	Pass
			RB3#0	23.99	-2.85	21.14	0.130	1.00	Pass
			RB3#2	24	-2.85	21.15	0.130	1.00	Pass
			RB3#3	23.95	-2.85	21.10	0.129	1.00	Pass
		RB6#0	22.9	-2.85	20.05	0.101	1.00	Pass	
		16-QAM	RB1#0	23.38	-2.85	20.53	0.113	1.00	Pass
			RB1#3	23.44	-2.85	20.59	0.115	1.00	Pass
			RB1#5	23.34	-2.85	20.49	0.112	1.00	Pass
			RB3#0	23.27	-2.85	20.42	0.110	1.00	Pass
			RB3#2	23.32	-2.85	20.47	0.111	1.00	Pass
	RB3#3		23.27	-2.85	20.42	0.110	1.00	Pass	
	RB6#0	21.93	-2.85	19.08	0.081	1.00	Pass		
	HCH	QPSK	RB1#0	23.99	-2.85	21.14	0.130	1.00	Pass
			RB1#3	24.16	-2.85	21.31	0.135	1.00	Pass
RB1#5			24.14	-2.85	21.29	0.135	1.00	Pass	
RB3#0			24.11	-2.85	21.26	0.134	1.00	Pass	
RB3#2			24.16	-2.85	21.31	0.135	1.00	Pass	
RB3#3			24.13	-2.85	21.28	0.134	1.00	Pass	
RB6#0		23.06	-2.85	20.21	0.105	1.00	Pass		
16-QAM		RB1#0	23.05	-2.85	20.20	0.105	1.00	Pass	
RB1#3	23.17	-2.85	20.32	0.108	1.00	Pass			

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND66</b>									
3 MHz			RB1#5	23.15	-2.85	20.30	0.107	1.00	Pass
			RB3#0	23.3	-2.85	20.45	0.111	1.00	Pass
			RB3#2	23.39	-2.85	20.54	0.113	1.00	Pass
			RB3#3	23.35	-2.85	20.50	0.112	1.00	Pass
			RB6#0	22.27	-2.85	19.42	0.087	1.00	Pass
	LCH	QPSK	RB1#0	23.82	-2.85	20.97	0.125	1.00	Pass
			RB1#7	23.78	-2.85	20.93	0.124	1.00	Pass
			RB1#14	23.76	-2.85	20.91	0.123	1.00	Pass
			RB8#0	22.8	-2.85	19.95	0.099	1.00	Pass
			RB8#4	22.86	-2.85	20.01	0.100	1.00	Pass
			RB8#7	22.84	-2.85	19.99	0.100	1.00	Pass
			RB15#0	22.83	-2.85	19.98	0.100	1.00	Pass
		16-QAM	RB1#0	22.81	-2.85	19.96	0.099	1.00	Pass
			RB1#7	22.8	-2.85	19.95	0.099	1.00	Pass
			RB1#14	22.81	-2.85	19.96	0.099	1.00	Pass
			RB8#0	22.08	-2.85	19.23	0.084	1.00	Pass
			RB8#4	22.08	-2.85	19.23	0.084	1.00	Pass
			RB8#7	22.08	-2.85	19.23	0.084	1.00	Pass
	MCH	QPSK	RB1#0	23.99	-2.85	21.14	0.130	1.00	Pass
			RB1#7	23.96	-2.85	21.11	0.129	1.00	Pass
			RB1#14	23.93	-2.85	21.08	0.128	1.00	Pass
			RB8#0	23.04	-2.85	20.19	0.104	1.00	Pass
			RB8#4	23.07	-2.85	20.22	0.105	1.00	Pass
			RB8#7	23.02	-2.85	20.17	0.104	1.00	Pass
			RB15#0	23.05	-2.85	20.20	0.105	1.00	Pass
		16-QAM	RB1#0	23.44	-2.85	20.59	0.115	1.00	Pass
			RB1#7	23.43	-2.85	20.58	0.114	1.00	Pass
			RB1#14	23.38	-2.85	20.53	0.113	1.00	Pass
RB8#0			22.24	-2.85	19.39	0.087	1.00	Pass	
RB8#4			22.25	-2.85	19.40	0.087	1.00	Pass	
RB8#7	22.21		-2.85	19.36	0.086	1.00	Pass		
HCH	QPSK	RB1#0	24.01	-2.85	21.16	0.131	1.00	Pass	
		RB1#7	24.08	-2.85	21.23	0.133	1.00	Pass	
		RB1#14	24.19	-2.85	21.34	0.136	1.00	Pass	
		RB8#0	23.07	-2.85	20.22	0.105	1.00	Pass	
		RB8#4	23.18	-2.85	20.33	0.108	1.00	Pass	

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
<b>LTE BAND66</b>											
		16-QAM	RB8#7	23.12	-2.85	20.27	0.106	1.00	Pass		
			RB15#0	23.12	-2.85	20.27	0.106	1.00	Pass		
			RB1#0	23.09	-2.85	20.24	0.106	1.00	Pass		
			RB1#7	23.12	-2.85	20.27	0.106	1.00	Pass		
			RB1#14	23.16	-2.85	20.31	0.107	1.00	Pass		
			RB8#0	22.21	-2.85	19.36	0.086	1.00	Pass		
			RB8#4	22.27	-2.85	19.42	0.087	1.00	Pass		
			RB8#7	22.25	-2.85	19.40	0.087	1.00	Pass		
					RB15#0	22.2	-2.85	19.35	0.086	1.00	Pass
		5 MHz	LCH	QPSK	RB1#0	23.76	-2.85	20.91	0.123	1.00	Pass
					RB1#13	23.86	-2.85	21.01	0.126	1.00	Pass
					RB1#24	23.7	-2.85	20.85	0.122	1.00	Pass
					RB12#0	22.81	-2.85	19.96	0.099	1.00	Pass
					RB12#6	22.87	-2.85	20.02	0.100	1.00	Pass
					RB12#13	22.83	-2.85	19.98	0.100	1.00	Pass
					RB25#0	22.86	-2.85	20.01	0.100	1.00	Pass
				16-QAM	RB1#0	23.01	-2.85	20.16	0.104	1.00	Pass
					RB1#13	23.12	-2.85	20.27	0.106	1.00	Pass
					RB1#24	23.04	-2.85	20.19	0.104	1.00	Pass
					RB12#0	22.07	-2.85	19.22	0.084	1.00	Pass
					RB12#6	22.11	-2.85	19.26	0.084	1.00	Pass
			RB12#13		22.02	-2.85	19.17	0.083	1.00	Pass	
				RB25#0	22.02	-2.85	19.17	0.083	1.00	Pass	
	MCH		QPSK	RB1#0	24	-2.85	21.15	0.130	1.00	Pass	
					RB1#13	24.04	-2.85	21.19	0.132	1.00	Pass
					RB1#24	23.96	-2.85	21.11	0.129	1.00	Pass
					RB12#0	23.11	-2.85	20.26	0.106	1.00	Pass
					RB12#6	23.1	-2.85	20.25	0.106	1.00	Pass
					RB12#13	23.04	-2.85	20.19	0.104	1.00	Pass
					RB25#0	23.07	-2.85	20.22	0.105	1.00	Pass
				16-QAM	RB1#0	23.61	-2.85	20.76	0.119	1.00	Pass
					RB1#13	23.66	-2.85	20.81	0.121	1.00	Pass
					RB1#24	23.54	-2.85	20.69	0.117	1.00	Pass
			RB12#0		22.37	-2.85	19.52	0.090	1.00	Pass	
			RB12#6		22.33	-2.85	19.48	0.089	1.00	Pass	
		RB12#13	22.29		-2.85	19.44	0.088	1.00	Pass		
			RB25#0	22.27	-2.85	19.42	0.087	1.00	Pass		
	HCH	QPSK	RB1#0	23.87	-2.85	21.02	0.126	1.00	Pass		

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND66</b>									
			RB1#13	24.12	-2.85	21.27	0.134	1.00	Pass
			RB1#24	24.15	-2.85	21.30	0.135	1.00	Pass
			RB12#0	23.07	-2.85	20.22	0.105	1.00	Pass
			RB12#6	23.13	-2.85	20.28	0.107	1.00	Pass
			RB12#13	23.12	-2.85	20.27	0.106	1.00	Pass
			RB25#0	23.1	-2.85	20.25	0.106	1.00	Pass
		16-QAM	RB1#0	23.09	-2.85	20.24	0.106	1.00	Pass
			RB1#13	23.25	-2.85	20.40	0.110	1.00	Pass
			RB1#24	23.27	-2.85	20.42	0.110	1.00	Pass
			RB12#0	22.18	-2.85	19.33	0.086	1.00	Pass
			RB12#6	22.27	-2.85	19.42	0.087	1.00	Pass
			RB12#13	22.29	-2.85	19.44	0.088	1.00	Pass
			RB25#0	22.15	-2.85	19.30	0.085	1.00	Pass
			10 MHz	LCH	QPSK	RB1#0	23.76	-2.85	20.91
RB1#25	23.76	-2.85				20.91	0.123	1.00	Pass
RB1#49	23.78	-2.85				20.93	0.124	1.00	Pass
RB25#0	22.85	-2.85				20.00	0.100	1.00	Pass
RB25#13	22.88	-2.85				20.03	0.101	1.00	Pass
RB25#25	22.91	-2.85				20.06	0.101	1.00	Pass
16-QAM	RB50#0	22.98			-2.85	20.13	0.103	1.00	Pass
	RB1#0	22.8			-2.85	19.95	0.099	1.00	Pass
	RB1#25	22.81			-2.85	19.96	0.099	1.00	Pass
	RB1#49	22.8			-2.85	19.95	0.099	1.00	Pass
	RB25#0	22.04			-2.85	19.19	0.083	1.00	Pass
	RB25#13	22			-2.85	19.15	0.082	1.00	Pass
	RB25#25	22.07			-2.85	19.22	0.084	1.00	Pass
	RB50#0	22.08			-2.85	19.23	0.084	1.00	Pass
10 MHz	MCH	QPSK	RB1#0	24.01	-2.85	21.16	0.131	1.00	Pass
			RB1#25	23.97	-2.85	21.12	0.129	1.00	Pass
			RB1#49	23.89	-2.85	21.04	0.127	1.00	Pass
			RB25#0	23.16	-2.85	20.31	0.107	1.00	Pass
			RB25#13	23.11	-2.85	20.26	0.106	1.00	Pass
			RB25#25	23.06	-2.85	20.21	0.105	1.00	Pass
		16-QAM	RB50#0	23.08	-2.85	20.23	0.105	1.00	Pass
			RB1#0	23.46	-2.85	20.61	0.115	1.00	Pass
			RB1#25	23.42	-2.85	20.57	0.114	1.00	Pass
			RB1#49	23.34	-2.85	20.49	0.112	1.00	Pass
			RB25#0	22.34	-2.85	19.49	0.089	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
<b>LTE BAND66</b>										
15 MHz	HCH	QPSK	RB25#13	22.27	-2.85	19.42	0.087	1.00	Pass	
			RB25#25	22.22	-2.85	19.37	0.086	1.00	Pass	
			RB50#0	22.26	-2.85	19.41	0.087	1.00	Pass	
		16-QAM	QPSK	RB1#0	23.8	-2.85	20.95	0.124	1.00	Pass
				RB1#25	23.95	-2.85	21.10	0.129	1.00	Pass
				RB1#49	24.16	-2.85	21.31	0.135	1.00	Pass
			16-QAM	RB25#0	22.92	-2.85	20.07	0.102	1.00	Pass
				RB25#13	23	-2.85	20.15	0.104	1.00	Pass
				RB25#25	23.1	-2.85	20.25	0.106	1.00	Pass
	RB50#0			23.04	-2.85	20.19	0.104	1.00	Pass	
	RB1#0			22.93	-2.85	20.08	0.102	1.00	Pass	
	RB1#25			23.01	-2.85	20.16	0.104	1.00	Pass	
	LCH	QPSK	RB1#49	23.13	-2.85	20.28	0.107	1.00	Pass	
			RB25#0	22.13	-2.85	19.28	0.085	1.00	Pass	
			RB25#13	22.22	-2.85	19.37	0.086	1.00	Pass	
			RB25#25	22.27	-2.85	19.42	0.087	1.00	Pass	
			RB50#0	22.16	-2.85	19.31	0.085	1.00	Pass	
			RB1#0	23.72	-2.85	20.87	0.122	1.00	Pass	
		16-QAM	RB1#38	23.68	-2.85	20.83	0.121	1.00	Pass	
			RB1#74	23.77	-2.85	20.92	0.124	1.00	Pass	
			RB36#0	22.8	-2.85	19.95	0.099	1.00	Pass	
RB36#19			22.89	-2.85	20.04	0.101	1.00	Pass		
RB36#39			22.82	-2.85	19.97	0.099	1.00	Pass		
RB75#0			22.87	-2.85	20.02	0.100	1.00	Pass		
MCH	QPSK	RB1#0	22.81	-2.85	19.96	0.099	1.00	Pass		
		RB1#38	22.76	-2.85	19.91	0.098	1.00	Pass		
		RB1#74	22.74	-2.85	19.89	0.097	1.00	Pass		
		RB36#0	21.92	-2.85	19.07	0.081	1.00	Pass		
		RB36#19	22.01	-2.85	19.16	0.082	1.00	Pass		
		RB36#39	21.97	-2.85	19.12	0.082	1.00	Pass		
		RB75#0	21.99	-2.85	19.14	0.082	1.00	Pass		
RB1#0	24	-2.85	21.15	0.130	1.00	Pass				
RB1#38	23.95	-2.85	21.10	0.129	1.00	Pass				
RB1#74	23.78	-2.85	20.93	0.124	1.00	Pass				
RB36#0	23.14	-2.85	20.29	0.107	1.00	Pass				
RB36#19	23.1	-2.85	20.25	0.106	1.00	Pass				
RB36#39	23	-2.85	20.15	0.104	1.00	Pass				
RB75#0	23.04	-2.85	20.19	0.104	1.00	Pass				

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND66</b>									
20 MHz	HCH	16-QAM	RB1#0	23.44	-2.85	20.59	0.115	1.00	Pass
			RB1#38	23.44	-2.85	20.59	0.115	1.00	Pass
			RB1#74	23.3	-2.85	20.45	0.111	1.00	Pass
			RB36#0	22.33	-2.85	19.48	0.089	1.00	Pass
			RB36#19	22.23	-2.85	19.38	0.087	1.00	Pass
			RB36#39	22.18	-2.85	19.33	0.086	1.00	Pass
			RB75#0	22.21	-2.85	19.36	0.086	1.00	Pass
		QPSK	RB1#0	23.64	-2.85	20.79	0.120	1.00	Pass
			RB1#38	23.82	-2.85	20.97	0.125	1.00	Pass
			RB1#74	24.1	-2.85	21.25	0.133	1.00	Pass
			RB36#0	22.78	-2.85	19.93	0.098	1.00	Pass
			RB36#19	22.95	-2.85	20.10	0.102	1.00	Pass
			RB36#39	23.01	-2.85	20.16	0.104	1.00	Pass
			RB75#0	22.89	-2.85	20.04	0.101	1.00	Pass
	16-QAM	RB1#0	23.19	-2.85	20.34	0.108	1.00	Pass	
		RB1#38	23.27	-2.85	20.42	0.110	1.00	Pass	
		RB1#74	23.45	-2.85	20.60	0.115	1.00	Pass	
		RB36#0	21.86	-2.85	19.01	0.080	1.00	Pass	
		RB36#19	21.99	-2.85	19.14	0.082	1.00	Pass	
		RB36#39	22.08	-2.85	19.23	0.084	1.00	Pass	
		RB75#0	21.99	-2.85	19.14	0.082	1.00	Pass	
	LCH	QPSK	RB1#0	23.83	-2.85	20.98	0.125	1.00	Pass
			RB1#50	23.84	-2.85	20.99	0.126	1.00	Pass
			RB1#99	23.84	-2.85	20.99	0.126	1.00	Pass
			RB50#0	23.05	-2.85	20.20	0.105	1.00	Pass
			RB50#25	23.04	-2.85	20.19	0.104	1.00	Pass
			RB50#50	22.98	-2.85	20.13	0.103	1.00	Pass
			RB100#0	22.92	-2.85	20.07	0.102	1.00	Pass
16-QAM		RB1#0	23.5	-2.85	20.65	0.116	1.00	Pass	
		RB1#50	23.44	-2.85	20.59	0.115	1.00	Pass	
		RB1#99	23.44	-2.85	20.59	0.115	1.00	Pass	
		RB50#0	22.25	-2.85	19.40	0.087	1.00	Pass	
		RB50#25	22.17	-2.85	19.32	0.086	1.00	Pass	
		RB50#50	22.13	-2.85	19.28	0.085	1.00	Pass	
		RB100#0	22.12	-2.85	19.27	0.085	1.00	Pass	
MCH	QPSK	RB1#0	24	-2.85	21.15	0.130	1.00	Pass	
		RB1#50	23.95	-2.85	21.10	0.129	1.00	Pass	
		RB1#99	23.84	-2.85	20.99	0.126	1.00	Pass	

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
<b>LTE BAND66</b>										
			RB50#0	23.18	-2.85	20.33	0.108	1.00	Pass	
			RB50#25	23.14	-2.85	20.29	0.107	1.00	Pass	
			RB50#50	23.03	-2.85	20.18	0.104	1.00	Pass	
			RB100#0	23.09	-2.85	20.24	0.106	1.00	Pass	
		16-QAM	RB1#0	23.45	-2.85	20.60	0.115	1.00	Pass	
			RB1#50	23.44	-2.85	20.59	0.115	1.00	Pass	
			RB1#99	23.36	-2.85	20.51	0.112	1.00	Pass	
			RB50#0	22.31	-2.85	19.46	0.088	1.00	Pass	
			RB50#25	22.28	-2.85	19.43	0.088	1.00	Pass	
			RB50#50	22.14	-2.85	19.29	0.085	1.00	Pass	
		RB100#0	22.18	-2.85	19.33	0.086	1.00	Pass		
		HCH	QPSK	RB1#0	23.66	-2.85	20.81	0.121	1.00	Pass
				RB1#50	23.75	-2.85	20.90	0.123	1.00	Pass
				RB1#99	24.15	-2.85	21.30	0.135	1.00	Pass
	RB50#0			22.89	-2.85	20.04	0.101	1.00	Pass	
	RB50#25			22.94	-2.85	20.09	0.102	1.00	Pass	
	RB50#50			23.03	-2.85	20.18	0.104	1.00	Pass	
	RB100#0		22.93	-2.85	20.08	0.102	1.00	Pass		
	16-QAM	RB1#0	23.22	-2.85	20.37	0.109	1.00	Pass		
		RB1#50	23.28	-2.85	20.43	0.110	1.00	Pass		
		RB1#99	23.57	-2.85	20.72	0.118	1.00	Pass		
		RB50#0	21.93	-2.85	19.08	0.081	1.00	Pass		
		RB50#25	22.03	-2.85	19.18	0.083	1.00	Pass		
		RB50#50	22.11	-2.85	19.26	0.084	1.00	Pass		
		RB100#0	22.06	-2.85	19.21	0.083	1.00	Pass		

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
<b>LTE BAND38</b>									
5 MHz	LCH	QPSK	RB1#0	23.96	-1.7	22.26	0.168	2.00	Pass
			RB1#13	24.03	-1.7	22.33	0.171	2.00	Pass
			RB1#24	23.96	-1.7	22.26	0.168	2.00	Pass
			RB12#0	22.95	-1.7	21.25	0.133	2.00	Pass
			RB12#6	22.99	-1.7	21.29	0.135	2.00	Pass
			RB12#13	22.98	-1.7	21.28	0.134	2.00	Pass
			RB25#0	22.96	-1.7	21.26	0.134	2.00	Pass
		16-QAM	RB1#0	23.25	-1.7	21.55	0.143	2.00	Pass
			RB1#13	23.36	-1.7	21.66	0.147	2.00	Pass
			RB1#24	23.24	-1.7	21.54	0.143	2.00	Pass
			RB12#0	22.04	-1.7	20.34	0.108	2.00	Pass
			RB12#6	22.12	-1.7	20.42	0.110	2.00	Pass
			RB12#13	22.07	-1.7	20.37	0.109	2.00	Pass
			RB25#0	22.1	-1.7	20.40	0.110	2.00	Pass
	MCH	QPSK	RB1#0	24.09	-1.7	22.39	0.173	2.00	Pass
			RB1#13	24.11	-1.7	22.41	0.174	2.00	Pass
			RB1#24	24.1	-1.7	22.40	0.174	2.00	Pass
			RB12#0	23.05	-1.7	21.35	0.136	2.00	Pass
			RB12#6	23.04	-1.7	21.34	0.136	2.00	Pass
			RB12#13	23.06	-1.7	21.36	0.137	2.00	Pass
			RB25#0	23.01	-1.7	21.31	0.135	2.00	Pass
		16-QAM	RB1#0	23.46	-1.7	21.76	0.150	2.00	Pass
			RB1#13	23.48	-1.7	21.78	0.151	2.00	Pass
			RB1#24	23.48	-1.7	21.78	0.151	2.00	Pass
			RB12#0	22.2	-1.7	20.50	0.112	2.00	Pass
			RB12#6	22.3	-1.7	20.60	0.115	2.00	Pass
			RB12#13	22.24	-1.7	20.54	0.113	2.00	Pass
			RB25#0	22.15	-1.7	20.45	0.111	2.00	Pass
	HCH	QPSK	RB1#0	24.01	-1.7	22.31	0.170	2.00	Pass
			RB1#13	24.06	-1.7	22.36	0.172	2.00	Pass
			RB1#24	23.99	-1.7	22.29	0.169	2.00	Pass
			RB12#0	23.03	-1.7	21.33	0.136	2.00	Pass
			RB12#6	23.06	-1.7	21.36	0.137	2.00	Pass
			RB12#13	23.05	-1.7	21.35	0.136	2.00	Pass
			RB25#0	23	-1.7	21.30	0.135	2.00	Pass
		16-QAM	RB1#0	23.21	-1.7	21.51	0.142	2.00	Pass
RB1#13			23.24	-1.7	21.54	0.143	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
<b>LTE BAND38</b>									
10 MHz			RB1#24	23.16	-1.7	21.46	0.140	2.00	Pass
			RB12#0	22.09	-1.7	20.39	0.109	2.00	Pass
			RB12#6	22.13	-1.7	20.43	0.110	2.00	Pass
			RB12#13	22.17	-1.7	20.47	0.111	2.00	Pass
			RB25#0	22.09	-1.7	20.39	0.109	2.00	Pass
	LCH	QPSK	RB1#0	23.9	-1.7	22.20	0.166	2.00	Pass
			RB1#25	23.88	-1.7	22.18	0.165	2.00	Pass
			RB1#49	23.88	-1.7	22.18	0.165	2.00	Pass
			RB25#0	22.92	-1.7	21.22	0.132	2.00	Pass
			RB25#13	23.01	-1.7	21.31	0.135	2.00	Pass
			RB25#25	22.92	-1.7	21.22	0.132	2.00	Pass
		16-QAM	RB50#0	22.95	-1.7	21.25	0.133	2.00	Pass
			RB1#0	23.23	-1.7	21.53	0.142	2.00	Pass
			RB1#25	23.23	-1.7	21.53	0.142	2.00	Pass
			RB1#49	23.24	-1.7	21.54	0.143	2.00	Pass
			RB25#0	22.06	-1.7	20.36	0.109	2.00	Pass
			RB25#13	22.08	-1.7	20.38	0.109	2.00	Pass
		MCH	QPSK	RB25#25	22.08	-1.7	20.38	0.109	2.00
	RB50#0			22.05	-1.7	20.35	0.108	2.00	Pass
	RB1#0			24.12	-1.7	22.42	0.175	2.00	Pass
	RB1#25			24.01	-1.7	22.31	0.170	2.00	Pass
	RB1#49			24.1	-1.7	22.40	0.174	2.00	Pass
	RB25#0			23.13	-1.7	21.43	0.139	2.00	Pass
	16-QAM		RB25#13	23.1	-1.7	21.40	0.138	2.00	Pass
			RB25#25	23.1	-1.7	21.40	0.138	2.00	Pass
			RB50#0	23.14	-1.7	21.44	0.139	2.00	Pass
			RB1#0	23.5	-1.7	21.80	0.151	2.00	Pass
			RB1#25	23.44	-1.7	21.74	0.149	2.00	Pass
RB1#49			23.5	-1.7	21.80	0.151	2.00	Pass	
HCH	QPSK		RB25#0	22.21	-1.7	20.51	0.112	2.00	Pass
		RB25#13	22.17	-1.7	20.47	0.111	2.00	Pass	
		RB25#25	22.16	-1.7	20.46	0.111	2.00	Pass	
		RB50#0	22.2	-1.7	20.50	0.112	2.00	Pass	
		RB1#0	24.1	-1.7	22.40	0.174	2.00	Pass	
			RB1#25	24.06	-1.7	22.36	0.172	2.00	Pass
			RB1#49	24.03	-1.7	22.33	0.171	2.00	Pass
			RB25#0	23.08	-1.7	21.38	0.137	2.00	Pass
			RB25#13	23.07	-1.7	21.37	0.137	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		
<b>LTE BAND38</b>											
		16-QAM	RB25#25	23.05	-1.7	21.35	0.136	2.00	Pass		
			RB50#0	23.03	-1.7	21.33	0.136	2.00	Pass		
			RB1#0	23.37	-1.7	21.67	0.147	2.00	Pass		
			RB1#25	23.3	-1.7	21.60	0.145	2.00	Pass		
			RB1#49	23.31	-1.7	21.61	0.145	2.00	Pass		
			RB25#0	22.12	-1.7	20.42	0.110	2.00	Pass		
			RB25#13	22.1	-1.7	20.40	0.110	2.00	Pass		
			RB25#25	22.1	-1.7	20.40	0.110	2.00	Pass		
		15 MHz	LCH	QPSK	RB1#0	23.98	-1.7	22.28	0.169	2.00	Pass
					RB1#38	23.9	-1.7	22.20	0.166	2.00	Pass
					RB1#74	24.03	-1.7	22.33	0.171	2.00	Pass
					RB36#0	22.98	-1.7	21.28	0.134	2.00	Pass
					RB36#19	23	-1.7	21.30	0.135	2.00	Pass
					RB36#39	23.07	-1.7	21.37	0.137	2.00	Pass
					RB75#0	23.03	-1.7	21.33	0.136	2.00	Pass
				16-QAM	RB1#0	23.28	-1.7	21.58	0.144	2.00	Pass
RB1#38	23.21				-1.7	21.51	0.142	2.00	Pass		
RB1#74	23.35				-1.7	21.65	0.146	2.00	Pass		
RB36#0	22.06				-1.7	20.36	0.109	2.00	Pass		
RB36#19	22.09				-1.7	20.39	0.109	2.00	Pass		
RB36#39	22.16				-1.7	20.46	0.111	2.00	Pass		
RB75#0	22.16				-1.7	20.46	0.111	2.00	Pass		
MCH	QPSK			RB1#0	24.16	-1.7	22.46	0.176	2.00	Pass	
				RB1#38	24.01	-1.7	22.31	0.170	2.00	Pass	
		RB1#74	24.15	-1.7	22.45	0.176	2.00	Pass			
		RB36#0	23.16	-1.7	21.46	0.140	2.00	Pass			
		RB36#19	23.13	-1.7	21.43	0.139	2.00	Pass			
		RB36#39	23.12	-1.7	21.42	0.139	2.00	Pass			
		RB75#0	23.14	-1.7	21.44	0.139	2.00	Pass			
	16-QAM	RB1#0	23.6	-1.7	21.90	0.155	2.00	Pass			
		RB1#38	23.45	-1.7	21.75	0.150	2.00	Pass			
		RB1#74	23.56	-1.7	21.86	0.153	2.00	Pass			
		RB36#0	22.22	-1.7	20.52	0.113	2.00	Pass			
		RB36#19	22.18	-1.7	20.48	0.112	2.00	Pass			
		RB36#39	22.21	-1.7	20.51	0.112	2.00	Pass			
		RB75#0	22.21	-1.7	20.51	0.112	2.00	Pass			
HCH	QPSK	RB1#0	24.18	-1.7	22.48	0.177	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	
<b>LTE BAND38</b>										
			RB1#38	24.12	-1.7	22.42	0.175	2.00	Pass	
			RB1#74	24.1	-1.7	22.40	0.174	2.00	Pass	
			RB36#0	23.14	-1.7	21.44	0.139	2.00	Pass	
			RB36#19	23.11	-1.7	21.41	0.138	2.00	Pass	
			RB36#39	22.99	-1.7	21.29	0.135	2.00	Pass	
			RB75#0	23.01	-1.7	21.31	0.135	2.00	Pass	
		16-QAM	RB1#0	23.33	-1.7	21.63	0.146	2.00	Pass	
			RB1#38	23.25	-1.7	21.55	0.143	2.00	Pass	
			RB1#74	23.22	-1.7	21.52	0.142	2.00	Pass	
			RB36#0	22.14	-1.7	20.44	0.111	2.00	Pass	
			RB36#19	22.12	-1.7	20.42	0.110	2.00	Pass	
			RB36#39	22.1	-1.7	20.40	0.110	2.00	Pass	
			RB75#0	22.1	-1.7	20.40	0.110	2.00	Pass	
			20 MHz	LCH	QPSK	RB1#0	24.02	-1.7	22.32	0.171
RB1#50	23.92	-1.7				22.22	0.167	2.00	Pass	
RB1#99	24.05	-1.7				22.35	0.172	2.00	Pass	
RB50#0	23.06	-1.7				21.36	0.137	2.00	Pass	
RB50#25	23.13	-1.7				21.43	0.139	2.00	Pass	
RB50#50	23.05	-1.7				21.35	0.136	2.00	Pass	
16-QAM	RB100#0	23.01			-1.7	21.31	0.135	2.00	Pass	
	RB1#0	23.23			-1.7	21.53	0.142	2.00	Pass	
	RB1#50	23.15			-1.7	21.45	0.140	2.00	Pass	
	RB1#99	23.32			-1.7	21.62	0.145	2.00	Pass	
	RB50#0	21.97			-1.7	20.27	0.106	2.00	Pass	
	RB50#25	22.11			-1.7	20.41	0.110	2.00	Pass	
MCH	QPSK	RB50#50			22.13	-1.7	20.43	0.110	2.00	Pass
		RB100#0			22.08	-1.7	20.38	0.109	2.00	Pass
		RB1#0	24.18	-1.7	22.48	0.177	2.00	Pass		
		RB1#50	23.97	-1.7	22.27	0.169	2.00	Pass		
		RB1#99	24.01	-1.7	22.31	0.170	2.00	Pass		
		RB50#0	23.09	-1.7	21.39	0.138	2.00	Pass		
	16-QAM	RB50#25	23.06	-1.7	21.36	0.137	2.00	Pass		
		RB50#50	23.07	-1.7	21.37	0.137	2.00	Pass		
RB100#0		23.11	-1.7	21.41	0.138	2.00	Pass			
RB1#0		23.32	-1.7	21.62	0.145	2.00	Pass			
			RB1#50	23.15	-1.7	21.45	0.140	2.00	Pass	
			RB1#99	23.18	-1.7	21.48	0.141	2.00	Pass	
			RB50#0	22.19	-1.7	20.49	0.112	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		
<b>LTE BAND38</b>											
			RB50#25	22.18	-1.7	20.48	0.112	2.00	Pass		
			RB50#50	22.18	-1.7	20.48	0.112	2.00	Pass		
			RB100#0	22.21	-1.7	20.51	0.112	2.00	Pass		
	HCH	QPSK	RB1#0	24.16	-1.7	22.46	0.176	2.00	Pass		
			RB1#50	24.05	-1.7	22.35	0.172	2.00	Pass		
			RB1#99	24	-1.7	22.30	0.170	2.00	Pass		
			RB50#0	23.06	-1.7	21.36	0.137	2.00	Pass		
			RB50#25	23.02	-1.7	21.32	0.136	2.00	Pass		
			RB50#50	22.98	-1.7	21.28	0.134	2.00	Pass		
			RB100#0	23.03	-1.7	21.33	0.136	2.00	Pass		
			16-QAM	RB1#0	23.48	-1.7	21.78	0.151	2.00	Pass	
				RB1#50	23.37	-1.7	21.67	0.147	2.00	Pass	
		RB1#99		23.34	-1.7	21.64	0.146	2.00	Pass		
		RB50#0		22.16	-1.7	20.46	0.111	2.00	Pass		
		RB50#25		22.15	-1.7	20.45	0.111	2.00	Pass		
					RB50#50	22.07	-1.7	20.37	0.109	2.00	Pass
					RB100#0	22.07	-1.7	20.37	0.109	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
<b>LTE BAND41</b>									
5 MHz	LCH	QPSK	RB1#0	24	-1.7	22.30	0.170	2.00	Pass
			RB1#13	24.1	-1.7	22.40	0.174	2.00	Pass
			RB1#24	24.04	-1.7	22.34	0.171	2.00	Pass
			RB12#0	23.02	-1.7	21.32	0.136	2.00	Pass
			RB12#6	22.99	-1.7	21.29	0.135	2.00	Pass
			RB12#13	23.07	-1.7	21.37	0.137	2.00	Pass
			RB25#0	23.02	-1.7	21.32	0.136	2.00	Pass
		16-QAM	RB1#0	23.28	-1.7	21.58	0.144	2.00	Pass
			RB1#13	23.38	-1.7	21.68	0.147	2.00	Pass
			RB1#24	23.35	-1.7	21.65	0.146	2.00	Pass
			RB12#0	22.06	-1.7	20.36	0.109	2.00	Pass
			RB12#6	22.19	-1.7	20.49	0.112	2.00	Pass
			RB12#13	22.11	-1.7	20.41	0.110	2.00	Pass
			RB25#0	22.19	-1.7	20.49	0.112	2.00	Pass
	MCH	QPSK	RB1#0	24.04	-1.7	22.34	0.171	2.00	Pass
			RB1#13	24.05	-1.7	22.35	0.172	2.00	Pass
			RB1#24	24.03	-1.7	22.33	0.171	2.00	Pass
			RB12#0	23.13	-1.7	21.43	0.139	2.00	Pass
			RB12#6	23.07	-1.7	21.37	0.137	2.00	Pass
			RB12#13	23.11	-1.7	21.41	0.138	2.00	Pass
			RB25#0	23.05	-1.7	21.35	0.136	2.00	Pass
		16-QAM	RB1#0	23.29	-1.7	21.59	0.144	2.00	Pass
			RB1#13	23.34	-1.7	21.64	0.146	2.00	Pass
			RB1#24	23.27	-1.7	21.57	0.144	2.00	Pass
			RB12#0	22.23	-1.7	20.53	0.113	2.00	Pass
			RB12#6	22.23	-1.7	20.53	0.113	2.00	Pass
			RB12#13	22.18	-1.7	20.48	0.112	2.00	Pass
			RB25#0	22.16	-1.7	20.46	0.111	2.00	Pass
	HCH	QPSK	RB1#0	23.89	-1.7	22.19	0.166	2.00	Pass
			RB1#13	23.94	-1.7	22.24	0.167	2.00	Pass
			RB1#24	23.92	-1.7	22.22	0.167	2.00	Pass
			RB12#0	22.95	-1.7	21.25	0.133	2.00	Pass
			RB12#6	23	-1.7	21.30	0.135	2.00	Pass
			RB12#13	23.01	-1.7	21.31	0.135	2.00	Pass
			RB25#0	22.9	-1.7	21.20	0.132	2.00	Pass
		16-QAM	RB1#0	23.27	-1.7	21.57	0.144	2.00	Pass
RB1#13			23.3	-1.7	21.60	0.145	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
<b>LTE BAND41</b>									
10 MHz			RB1#24	23.26	-1.7	21.56	0.143	2.00	Pass
			RB12#0	22.04	-1.7	20.34	0.108	2.00	Pass
			RB12#6	22.11	-1.7	20.41	0.110	2.00	Pass
			RB12#13	22.04	-1.7	20.34	0.108	2.00	Pass
			RB25#0	21.94	-1.7	20.24	0.106	2.00	Pass
	LCH	QPSK	RB1#0	23.92	-1.7	22.22	0.167	2.00	Pass
			RB1#25	23.94	-1.7	22.24	0.167	2.00	Pass
			RB1#49	23.98	-1.7	22.28	0.169	2.00	Pass
			RB25#0	23.07	-1.7	21.37	0.137	2.00	Pass
			RB25#13	23.01	-1.7	21.31	0.135	2.00	Pass
			RB25#25	22.96	-1.7	21.26	0.134	2.00	Pass
			RB50#0	22.96	-1.7	21.26	0.134	2.00	Pass
		16-QAM	RB1#0	23.16	-1.7	21.46	0.140	2.00	Pass
			RB1#25	23.2	-1.7	21.50	0.141	2.00	Pass
			RB1#49	23.21	-1.7	21.51	0.142	2.00	Pass
			RB25#0	22.01	-1.7	20.31	0.107	2.00	Pass
			RB25#13	22.05	-1.7	20.35	0.108	2.00	Pass
			RB25#25	22.05	-1.7	20.35	0.108	2.00	Pass
			RB50#0	22.1	-1.7	20.40	0.110	2.00	Pass
	MCH	QPSK	RB1#0	24.16	-1.7	22.46	0.176	2.00	Pass
			RB1#25	24.03	-1.7	22.33	0.171	2.00	Pass
			RB1#49	24.1	-1.7	22.40	0.174	2.00	Pass
			RB25#0	23.08	-1.7	21.38	0.137	2.00	Pass
			RB25#13	23.09	-1.7	21.39	0.138	2.00	Pass
			RB25#25	23.06	-1.7	21.36	0.137	2.00	Pass
			RB50#0	23.08	-1.7	21.38	0.137	2.00	Pass
		16-QAM	RB1#0	23.51	-1.7	21.81	0.152	2.00	Pass
			RB1#25	23.42	-1.7	21.72	0.149	2.00	Pass
			RB1#49	23.46	-1.7	21.76	0.150	2.00	Pass
			RB25#0	22.2	-1.7	20.50	0.112	2.00	Pass
RB25#13			22.2	-1.7	20.50	0.112	2.00	Pass	
RB25#25			22.17	-1.7	20.47	0.111	2.00	Pass	
RB50#0			22.17	-1.7	20.47	0.111	2.00	Pass	
HCH	QPSK	RB1#0	23.91	-1.7	22.21	0.166	2.00	Pass	
		RB1#25	23.82	-1.7	22.12	0.163	2.00	Pass	
		RB1#49	23.83	-1.7	22.13	0.163	2.00	Pass	
		RB25#0	22.92	-1.7	21.22	0.132	2.00	Pass	
		RB25#13	22.97	-1.7	21.27	0.134	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		
<b>LTE BAND41</b>											
		16-QAM	RB25#25	22.95	-1.7	21.25	0.133	2.00	Pass		
			RB50#0	22.95	-1.7	21.25	0.133	2.00	Pass		
			RB1#0	23.29	-1.7	21.59	0.144	2.00	Pass		
			RB1#25	23.29	-1.7	21.59	0.144	2.00	Pass		
			RB1#49	23.28	-1.7	21.58	0.144	2.00	Pass		
			RB25#0	22.01	-1.7	20.31	0.107	2.00	Pass		
			RB25#13	21.98	-1.7	20.28	0.107	2.00	Pass		
			RB25#25	21.97	-1.7	20.27	0.106	2.00	Pass		
		15 MHz	LCH	QPSK	RB1#0	24.07	-1.7	22.37	0.173	2.00	Pass
					RB1#38	24.04	-1.7	22.34	0.171	2.00	Pass
					RB1#74	23.96	-1.7	22.26	0.168	2.00	Pass
					RB36#0	23.01	-1.7	21.31	0.135	2.00	Pass
					RB36#19	23.07	-1.7	21.37	0.137	2.00	Pass
					RB36#39	22.99	-1.7	21.29	0.135	2.00	Pass
					RB75#0	22.98	-1.7	21.28	0.134	2.00	Pass
				16-QAM	RB1#0	23.25	-1.7	21.55	0.143	2.00	Pass
RB1#38	23.26	-1.7	21.56		0.143	2.00	Pass				
RB1#74	23.25	-1.7	21.55		0.143	2.00	Pass				
RB36#0	22.12	-1.7	20.42		0.110	2.00	Pass				
RB36#19	22.11	-1.7	20.41		0.110	2.00	Pass				
RB36#39	22.09	-1.7	20.39		0.109	2.00	Pass				
RB75#0	22.12	-1.7	20.42		0.110	2.00	Pass				
MCH	QPSK	RB1#0	24.17	-1.7	22.47	0.177	2.00	Pass			
		RB1#38	24.09	-1.7	22.39	0.173	2.00	Pass			
		RB1#74	24.18	-1.7	22.48	0.177	2.00	Pass			
		RB36#0	23.16	-1.7	21.46	0.140	2.00	Pass			
		RB36#19	23.13	-1.7	21.43	0.139	2.00	Pass			
		RB36#39	23.13	-1.7	21.43	0.139	2.00	Pass			
		RB75#0	23.14	-1.7	21.44	0.139	2.00	Pass			
	16-QAM	RB1#0	23.52	-1.7	21.82	0.152	2.00	Pass			
		RB1#38	23.4	-1.7	21.70	0.148	2.00	Pass			
		RB1#74	23.43	-1.7	21.73	0.149	2.00	Pass			
		RB36#0	22.27	-1.7	20.57	0.114	2.00	Pass			
		RB36#19	22.25	-1.7	20.55	0.114	2.00	Pass			
		RB36#39	22.22	-1.7	20.52	0.113	2.00	Pass			
		RB75#0	22.22	-1.7	20.52	0.113	2.00	Pass			
HCH	QPSK	RB1#0	23.89	-1.7	22.19	0.166	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	
<b>LTE BAND41</b>										
			RB1#38	23.87	-1.7	22.17	0.165	2.00	Pass	
			RB1#74	23.89	-1.7	22.19	0.166	2.00	Pass	
			RB36#0	22.9	-1.7	21.20	0.132	2.00	Pass	
			RB36#19	22.99	-1.7	21.29	0.135	2.00	Pass	
			RB36#39	22.92	-1.7	21.22	0.132	2.00	Pass	
			RB75#0	22.94	-1.7	21.24	0.133	2.00	Pass	
		16-QAM	RB1#0	23.38	-1.7	21.68	0.147	2.00	Pass	
			RB1#38	23.31	-1.7	21.61	0.145	2.00	Pass	
			RB1#74	23.29	-1.7	21.59	0.144	2.00	Pass	
			RB36#0	22.01	-1.7	20.31	0.107	2.00	Pass	
			RB36#19	21.97	-1.7	20.27	0.106	2.00	Pass	
			RB36#39	21.97	-1.7	20.27	0.106	2.00	Pass	
			RB75#0	22.05	-1.7	20.35	0.108	2.00	Pass	
			20 MHz	LCH	QPSK	RB1#0	24.03	-1.7	22.33	0.171
RB1#50	23.86	-1.7				22.16	0.164	2.00	Pass	
RB1#99	24.02	-1.7				22.32	0.171	2.00	Pass	
RB50#0	23.03	-1.7				21.33	0.136	2.00	Pass	
RB50#25	22.99	-1.7				21.29	0.135	2.00	Pass	
RB50#50	23	-1.7				21.30	0.135	2.00	Pass	
16-QAM	RB100#0	23.06			-1.7	21.36	0.137	2.00	Pass	
	RB1#0	23.2			-1.7	21.50	0.141	2.00	Pass	
	RB1#50	23.2			-1.7	21.50	0.141	2.00	Pass	
	RB1#99	23.27			-1.7	21.57	0.144	2.00	Pass	
	RB50#0	22.04			-1.7	20.34	0.108	2.00	Pass	
	RB50#25	22.03			-1.7	20.33	0.108	2.00	Pass	
MCH	QPSK	RB50#50			22.09	-1.7	20.39	0.109	2.00	Pass
		RB100#0			22.12	-1.7	20.42	0.110	2.00	Pass
		RB1#0	24.26	-1.7	22.56	0.180	2.00	Pass		
		RB1#50	24.1	-1.7	22.40	0.174	2.00	Pass		
		RB1#99	24.19	-1.7	22.49	0.177	2.00	Pass		
		RB50#0	23.22	-1.7	21.52	0.142	2.00	Pass		
	16-QAM	RB50#25	23.16	-1.7	21.46	0.140	2.00	Pass		
		RB50#50	23.15	-1.7	21.45	0.140	2.00	Pass		
RB100#0		23.16	-1.7	21.46	0.140	2.00	Pass			
RB1#0		23.58	-1.7	21.88	0.154	2.00	Pass			
			RB1#50	23.49	-1.7	21.79	0.151	2.00	Pass	
			RB1#99	23.51	-1.7	21.81	0.152	2.00	Pass	
			RB50#0	22.33	-1.7	20.63	0.116	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		
<b>LTE BAND41</b>											
			RB50#25	22.25	-1.7	20.55	0.114	2.00	Pass		
			RB50#50	22.24	-1.7	20.54	0.113	2.00	Pass		
			RB100#0	22.22	-1.7	20.52	0.113	2.00	Pass		
		HCH	QPSK	RB1#0	23.86	-1.7	22.16	0.164	2.00	Pass	
				RB1#50	23.87	-1.7	22.17	0.165	2.00	Pass	
				RB1#99	23.87	-1.7	22.17	0.165	2.00	Pass	
				RB50#0	22.9	-1.7	21.20	0.132	2.00	Pass	
				RB50#25	22.97	-1.7	21.27	0.134	2.00	Pass	
				RB50#50	22.93	-1.7	21.23	0.133	2.00	Pass	
				RB100#0	22.84	-1.7	21.14	0.130	2.00	Pass	
				16-QAM	RB1#0	23.07	-1.7	21.37	0.137	2.00	Pass
					RB1#50	23.04	-1.7	21.34	0.136	2.00	Pass
			RB1#99		23.06	-1.7	21.36	0.137	2.00	Pass	
			RB50#0		21.9	-1.7	20.20	0.105	2.00	Pass	
			RB50#25		22.05	-1.7	20.35	0.108	2.00	Pass	
			RB50#50		22	-1.7	20.30	0.107	2.00	Pass	
			RB100#0	21.96	-1.7	20.26	0.106	2.00	Pass		

Modulation	PCC RB		SCC RB		Conducted Output AV Power (dBm)			Antenna Gain (dBi)	EIRP (W)			Limit (W)
	Size	Offset	Size	Offset	LCH	MCH	HCH		LCH	MCH	HCH	
<b>CA_7C</b>												
10MHz+20MHz												
QPSK	1	49	1	0	24.2	24.37	24.28	-1.7	0.178	0.185	0.181	2.000
	50	0	100	0	22.2	22.22	22.17	-1.7	0.112	0.113	0.111	2.000
16-QAM	1	49	1	0	22.88	23.09	23.4	-1.7	0.131	0.138	0.148	2.000
	50	0	100	0	21.2	21.23	21.34	-1.7	0.089	0.090	0.092	2.000
20MHz+10MHz												
QPSK	1	0	0	0	24.16	24.2	24.16	-1.7	0.176	0.178	0.176	2.000
	50	0	0	0	23.17	23.35	23.27	-1.7	0.140	0.146	0.144	2.000
	100	0	0	0	22.3	22.41	22.42	-1.7	0.115	0.118	0.118	2.000
	1	99	1	0	24	24.11	24.17	-1.7	0.170	0.174	0.177	2.000
	100	0	50	0	22.12	22.14	22.12	-1.7	0.110	0.111	0.110	2.000
16-QAM	1	0	0	0	23.25	23.35	23.27	-1.7	0.143	0.146	0.144	2.000
	50	0	0	0	21.93	22.01	22	-1.7	0.105	0.107	0.107	2.000
	100	0	0	0	21.05	21.16	21.15	-1.7	0.086	0.088	0.088	2.000
	1	99	1	0	22.87	22.95	22.98	-1.7	0.131	0.133	0.134	2.000
	100	0	50	0	21.18	21.28	21.3	-1.7	0.089	0.091	0.091	2.000
15MHz+15MHz												
QPSK	1	74	1	0	24.01	24.1	24.08	-1.7	0.170	0.174	0.173	2.000
	75	0	75	0	22.08	22.14	22.1	-1.7	0.109	0.111	0.110	2.000
16-QAM	1	74	1	0	22.71	22.78	22.81	-1.7	0.126	0.128	0.129	2.000
	75	0	75	0	21.21	21.28	21.29	-1.7	0.089	0.091	0.091	2.000
15MHz+20MHz												
QPSK	1	74	1	0	24.16	24.21	24.25	-1.7	0.176	0.178	0.180	2.000
	75	0	100	0	22.12	22.21	22.23	-1.7	0.110	0.112	0.113	2.000
16-QAM	1	74	1	0	23.39	23.33	23.42	-1.7	0.148	0.146	0.149	2.000
	75	0	100	0	21.21	21.3	21.35	-1.7	0.089	0.091	0.092	2.000
20MHz+15MHz												
QPSK	1	99	1	0	24.16	24.19	24.27	-1.7	0.176	0.177	0.181	2.000
	100	0	75	0	22.19	22.24	22.26	-1.7	0.112	0.113	0.114	2.000
16-QAM	1	99	1	0	22.98	23.22	23.16	-1.7	0.134	0.142	0.140	2.000
	100	0	75	0	21.26	21.28	21.31	-1.7	0.090	0.091	0.091	2.000
20MHz+20MHz												
QPSK	1	0	0	0	24.17	24.28	24.27	-1.7	0.177	0.181	0.181	2.000
	50	0	0	0	23.24	23.27	23.28	-1.7	0.143	0.144	0.144	2.000
	100	0	0	0	23.33	23.26	23.25	-1.7	0.146	0.143	0.143	2.000
	1	99	1	0	24.21	24.35	24.31	-1.7	0.178	0.184	0.182	2.000

Modulation	PCC RB		SCC RB		Conducted Output AV Power (dBm)			Antenna Gain (dBi)	EIRP (W)			Limit (W)
	Size	Offset	Size	Offset	LCH	MCH	HCH		LCH	MCH	HCH	
<b>CA_7C</b>												
	100	0	100	0	22.25	22.25	22.23	-1.7	0.114	0.114	0.113	2.000
16-QAM	1	0	0	0	23.32	23.4	23.17	-1.7	0.145	0.148	0.140	2.000
	50	0	0	0	22.21	22.24	22.27	-1.7	0.112	0.113	0.114	2.000
	100	0	0	0	22.41	22.43	22.35	-1.7	0.118	0.118	0.116	2.000
	1	99	1	0	23.32	23.47	23.15	-1.7	0.145	0.150	0.140	2.000
	100	0	100	0	21.32	21.34	21.27	-1.7	0.092	0.092	0.091	2.000

Modulation	PCC RB		SCC RB		Conducted Output AV Power (dBm)			Antenna Gain (dBi)	EIRP (W)			Limit (W)
	Size	Offset	Size	Offset	LCH	MCH	HCH		LCH	MCH	HCH	
<b>CA_38C</b>												
<b>15MHz+15MHz</b>												
QPSK	1	0	0	0	24.05	24.21	24.13	-1.7	0.172	0.178	0.175	2.000
	36	0	0	0	23.01	23.13	23.01	-1.7	0.135	0.139	0.135	2.000
	75	0	0	0	23.08	23.13	23.11	-1.7	0.137	0.139	0.138	2.000
	1	74	1	0	24.19	24.26	24.23	-1.7	0.177	0.180	0.179	2.000
	75	0	75	0	22.08	22.03	22.01	-1.7	0.109	0.108	0.107	2.000
16-QAM	1	0	0	0	23.01	23.22	23.12	-1.7	0.135	0.142	0.139	2.000
	36	0	0	0	22.16	22.11	22.14	-1.7	0.111	0.110	0.111	2.000
	75	0	0	0	22.22	22.22	22.21	-1.7	0.113	0.113	0.112	2.000
	1	74	1	0	23.19	23.27	23.21	-1.7	0.141	0.144	0.142	2.000
	75	0	75	0	21.2	21.21	21.14	-1.7	0.089	0.089	0.088	2.000
<b>20MHz+20MHz</b>												
QPSK	1	0	0	0	24.1	24.01	24.08	-1.7	0.174	0.170	0.173	2.000
	50	0	0	0	23.03	23.18	23.17	-1.7	0.136	0.141	0.140	2.000
	100	0	0	0	23.12	23.18	23.17	-1.7	0.139	0.141	0.140	2.000
	1	99	1	0	24.21	24.16	24.27	-1.7	0.178	0.176	0.181	2.000
	100	0	100	0	22.19	22.14	22.12	-1.7	0.112	0.111	0.110	2.000
16-QAM	1	0	0	0	22.89	22.59	22.82	-1.7	0.132	0.123	0.129	2.000
	50	0	0	0	22.13	22.31	22.28	-1.7	0.110	0.115	0.114	2.000
	100	0	0	0	22.2	22.23	22.22	-1.7	0.112	0.113	0.113	2.000
	1	99	1	0	23.07	22.81	22.99	-1.7	0.137	0.129	0.135	2.000
	100	0	100	0	21.18	21.19	21.15	-1.7	0.089	0.089	0.088	2.000

Modulation	PCC RB		SCC RB		Conducted Output Power (dBm)			Antenna Gain (dBi)	EIRP (W)			Limit (W)
	Size	Offset	Size	Offset	LCH	MCH	HCH		LCH	MCH	HCH	
<b>CA_41C</b>												
<b>5MHz+20MHz</b>												
QPSK	1	24	1	0	24.15	24.13	23.85	-1.7	0.176	0.175	0.164	2.000
	25	0	100	0	22.02	22.09	21.84	-1.7	0.108	0.109	0.103	2.000
16QAM	1	24	1	0	22.84	23.11	22.78	-1.7	0.130	0.138	0.128	2.000
	25	0	100	0	21.08	21.16	20.94	-1.7	0.087	0.088	0.084	2.000
<b>20MHz+5MHz</b>												
QPSK	1	0	0	0	24.05	24.02	23.91	-1.7	0.172	0.171	0.166	2.000
	50	0	0	0	22.03	22.17	21.88	-1.7	0.108	0.111	0.104	2.000
	100	0	0	0	22.06	22.09	21.87	-1.7	0.109	0.109	0.104	2.000
	1	99	1	0	24.04	24.13	24.05	-1.7	0.171	0.175	0.172	2.000
	100	0	25	0	22.01	22.04	21.87	-1.7	0.107	0.108	0.104	2.000
16-QAM	1	0	0	0	22.77	22.66	22.97	-1.7	0.128	0.125	0.134	2.000
	50	0	0	0	21.13	21.24	20.97	-1.7	0.088	0.090	0.085	2.000
	100	0	0	0	21.18	21.14	20.91	-1.7	0.089	0.088	0.083	2.000
	1	99	1	0	22.89	22.77	22.71	-1.7	0.132	0.128	0.126	2.000
	100	0	25	0	21.03	21.09	20.91	-1.7	0.086	0.087	0.083	2.000
<b>10MHz+20MHz</b>												
QPSK	1	49	1	0	24.04	24.28	23.93	-1.7	0.171	0.181	0.167	2.000
	50	0	100	0	22.01	22.07	21.84	-1.7	0.107	0.109	0.103	2.000
16-QAM	1	49	1	0	22.96	22.96	23.07	-1.7	0.134	0.134	0.137	2.000
	50	0	100	0	21.06	21.13	20.91	-1.7	0.086	0.088	0.083	2.000
<b>20MHz+10MHz</b>												
QPSK	1	99	1	0	24	24.1	24.03	-1.7	0.170	0.174	0.171	2.000
	100	0	50	0	21.99	22.05	21.88	-1.7	0.107	0.108	0.104	2.000
16-QAM	1	99	1	0	22.87	22.75	22.75	-1.7	0.131	0.127	0.127	2.000
	100	0	50	0	21.1	21.14	20.96	-1.7	0.087	0.088	0.084	2.000
<b>15MHz+15MHz</b>												
QPSK	1	74	1	0	23.98	24.12	24.02	-1.7	0.169	0.175	0.171	2.000
	75	0	75	0	21.94	22.05	21.84	-1.7	0.106	0.108	0.103	2.000
16-QAM	1	74	1	0	22.9	23.15	23.12	-1.7	0.132	0.140	0.139	2.000
	75	0	75	0	21.02	21.13	20.96	-1.7	0.086	0.088	0.084	2.000
<b>15MHz+20MHz</b>												
QPSK	1	74	1	0	24.01	24.24	23.96	-1.7	0.170	0.179	0.168	2.000
	75	0	100	0	21.96	22.06	21.82	-1.7	0.106	0.109	0.103	2.000
16-QAM	1	74	1	0	22.97	23.25	23.06	-1.7	0.134	0.143	0.137	2.000
	75	0	100	0	21.05	21.13	20.92	-1.7	0.086	0.088	0.084	2.000
<b>20MHz+15MHz</b>												

Modulation	PCC RB		SCC RB		Conducted Output AV Power (dBm)			Antenna Gain (dBi)	EIRP (W)			Limit (W)
	Size	Offset	Size	Offset	LCH	MCH	HCH		LCH	MCH	HCH	
<b>CA_41C</b>												
QPSK	1	99	1	0	23.99	24.01	24.04	-1.7	0.169	0.170	0.171	2.000
	100	0	75	0	22.01	22.08	21.89	-1.7	0.107	0.109	0.104	2.000
16-QAM	1	99	1	0	22.87	22.67	22.75	-1.7	0.131	0.125	0.127	2.000
	100	0	75	0	21.07	21.14	20.96	-1.7	0.086	0.088	0.084	2.000
<b>20MHz+20MHz</b>												
QPSK	1	0	0	0	24.02	23.91	23.94	-1.7	0.171	0.166	0.167	2.000
	50	0	0	0	23.02	23.15	22.94	-1.7	0.136	0.140	0.133	2.000
	100	0	0	0	23.1	23.18	22.88	-1.7	0.138	0.141	0.131	2.000
	1	99	1	0	24.07	24.14	24	-1.7	0.173	0.175	0.170	2.000
	100	0	100	0	22.04	22.11	21.85	-1.7	0.108	0.110	0.104	2.000
16-QAM	1	0	0	0	22.75	22.59	22.95	-1.7	0.127	0.123	0.133	2.000
	50	0	0	0	22.16	22.26	22.01	-1.7	0.111	0.114	0.107	2.000
	100	0	0	0	22.19	22.25	21.92	-1.7	0.112	0.114	0.105	2.000
	1	99	1	0	22.94	22.81	22.75	-1.7	0.133	0.129	0.127	2.000
	100	0	100	0	21.07	21.18	20.9	-1.7	0.086	0.089	0.083	2.000

## 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-SZ2270591-501 Data Part 1.pdf”.

### WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
Band 2	LCH	3.0	13	1.1	Pass
	MCH	2.95	13	1.2	Pass
	HCH	2.77	13	1.3	Pass
Band 4	LCH	3.09	13	2.1	Pass
	MCH	3.0	13	2.2	Pass
	HCH	3.09	13	2.3	Pass
Band 5	LCH	2.72	13	3.1	Pass
	MCH	2.77	13	3.2	Pass
	HCH	2.67	13	3.3	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 <sup>Note2</sup>	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	3.14	13	4.1	Pass
				RB100#0	4.73	13	4.2	Pass
			16-QAM	RB1#0	4.41	13	4.3	Pass
				RB100#0	5.91	13	4.4	Pass
		MCH	QPSK	RB1#0	3.23	13	4.5	Pass
				RB100#0	4.55	13	4.6	Pass
			16-QAM	RB1#0	4.78	13	4.7	Pass
				RB100#0	5.77	13	4.8	Pass
		HCH	QPSK	RB1#0	3.14	13	4.9	Pass
				RB100#0	4.5	13	4.10	Pass
			16-QAM	RB1#0	4.73	13	4.11	Pass
				RB100#0	5.67	13	4.12	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	3.52	13	5.1	Pass
				RB100#0	4.78	13	5.2	Pass
			16-QAM	RB1#0	5.25	13	5.3	Pass
				RB100#0	6	13	5.4	Pass
		MCH	QPSK	RB1#0	3.33	13	5.5	Pass
				RB100#0	4.69	13	5.6	Pass
			16-QAM	RB1#0	4.83	13	5.7	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
		HCH	QPSK	RB100#0	5.91	13	5.8	Pass
				RB1#0	3.37	13	5.9	Pass
				RB100#0	4.87	13	5.10	Pass
				RB1#0	4.92	13	5.11	Pass
				RB100#0	6	13	5.12	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	2.86	13	6.1	Pass
				RB50#0	4.41	13	6.2	Pass
			16-QAM	RB1#0	4.22	13	6.3	Pass
				RB50#0	5.48	13	6.4	Pass
		MCH	QPSK	RB1#0	2.86	13	6.5	Pass
				RB50#0	4.55	13	6.6	Pass
			16-QAM	RB1#0	4.36	13	6.7	Pass
				RB50#0	5.62	13	6.8	Pass
		HCH	QPSK	RB1#0	3	13	6.9	Pass
				RB50#0	4.45	13	6.10	Pass
			16-QAM	RB1#0	4.5	13	6.11	Pass
				RB50#0	5.53	13	6.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	3.14	13	7.1	Pass
				RB100#0	4.64	13	7.2	Pass
			16-QAM	RB1#0	4.45	13	7.3	Pass
				RB100#0	5.77	13	7.4	Pass
		MCH	QPSK	RB1#0	3.09	13	7.5	Pass
				RB100#0	4.45	13	7.6	Pass
			16-QAM	RB1#0	4.64	13	7.7	Pass
				RB100#0	5.58	13	7.8	Pass
		HCH	QPSK	RB1#0	3.23	13	7.9	Pass
				RB100#0	4.69	13	7.10	Pass
			16-QAM	RB1#0	4.78	13	7.11	Pass
				RB100#0	5.86	13	7.12	Pass
LTE Band 66	20 MHz	LCH	QPSK	RB1#0	3.56	13	8.1	Pass
				RB100#0	4.78	13	8.2	Pass
			16-QAM	RB1#0	5.2	13	8.3	Pass
				RB100#0	6	13	8.4	Pass
		MCH	QPSK	RB1#0	3.33	13	8.5	Pass
				RB100#0	4.78	13	8.6	Pass
			16-QAM	RB1#0	4.69	13	8.7	Pass
				RB100#0	6	13	8.8	Pass
		HCH	QPSK	RB1#0	3.52	13	8.9	Pass
				RB100#0	4.69	13	8.10	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
			16-QAM	RB1#0	5.3	13	8.11	Pass
				RB100#0	5.91	13	8.12	Pass
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	7.36	13	9.1	Pass
				RB100#0	8.39	13	9.2	Pass
			16-QAM	RB1#0	8.81	13	9.3	Pass
				RB100#0	9.56	13	9.4	Pass
		MCH	QPSK	RB1#0	7.27	13	9.5	Pass
				RB100#0	8.3	13	9.6	Pass
			16-QAM	RB1#0	8.72	13	9.7	Pass
				RB100#0	9.37	13	9.8	Pass
		HCH	QPSK	RB1#0	6.98	13	9.9	Pass
				RB100#0	8.16	13	9.10	Pass
			16-QAM	RB1#0	8.39	13	9.11	Pass
				RB100#0	9.23	13	9.12	Pass
LTE Band 41	20 MHz	LCH	QPSK	RB1#0	7.22	13	10.1	Pass
				RB100#0	8.44	13	10.2	Pass
			16-QAM	RB1#0	8.67	13	10.3	Pass
				RB100#0	9.52	13	10.4	Pass
		MCH	QPSK	RB1#0	7.27	13	10.5	Pass
				RB100#0	8.2	13	10.6	Pass
			16-QAM	RB1#0	8.58	13	10.7	Pass
				RB100#0	9.33	13	10.8	Pass
		HCH	QPSK	RB1#0	7.31	13	10.9	Pass
				RB100#0	8.25	13	10.10	Pass
			16-QAM	RB1#0	8.81	13	10.11	Pass
				RB100#0	9.42	13	10.12	Pass

Test Channel	Modulation	PCC RB		SCC RB		Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note 2</sup>	Verdict
		Size	Offset	Size	Offset				
<b>CA_7C</b>									
10MHz+20MHz									
Mid	QPSK	50	0	100	0	5.77	13	11.1	Pass
	16-QAM	50	0	100	0	6.61	13	11.2	Pass
20MHz+10MHz									
Mid	QPSK	100	0	50	0	5.81	13	11.3	Pass
	16-QAM	100	0	50	0	6.56	13	11.4	Pass
15MHz+15MHz									
Mid	QPSK	75	0	75	0	6.05	13	11.5	Pass
	16-QAM	75	0	75	0	6.7	13	11.6	Pass
15MHz+20MHz									
Mid	QPSK	75	0	100	0	5.77	13	11.7	Pass
	16-QAM	75	0	100	0	6.56	13	11.8	Pass
20MHz+15MHz									
Mid	QPSK	100	0	75	0	5.72	13	11.9	Pass
	16-QAM	100	0	75	0	6.52	13	11.10	Pass
20MHz+20MHz									
Mid	QPSK	100	0	100	0	5.95	13	11.11	Pass
	16-QAM	100	0	100	0	6.7	13	11.12	Pass

Test Channel	Modulation	PCC RB		SCC RB		Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note 2</sup>	Verdict
		Size	Offset	Size	Offset				
<b>CA_38C</b>									
15MHz+15MHz									
Mid	QPSK	75	0	75	0	9.8	13	12.1	Pass
	16-QAM	75	0	75	0	10.41	13	12.2	Pass
20MHz+20MHz									
Mid	QPSK	100	0	100	0	9.7	13	12.3	Pass
	16-QAM	100	0	100	0	10.41	13	12.4	Pass

Test Channel	Modulation	PCC RB		SCC RB		Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note 2</sup>	Verdict
		Size	Offset	Size	Offset				
<b>CA_41C</b>									
5MHz+20MHz									
Mid	QPSK	25	0	100	0	9.61	13	13.1	Pass
	16-QAM	25	0	100	0	10.41	13	13.2	Pass
20MHz+5MHz									
Mid	QPSK	100	0	25	0	9.56	13	13.3	Pass
	16-QAM	100	0	25	0	10.27	13	13.4	Pass
10MHz+20MHz									
Mid	QPSK	50	0	100	0	9.56	13	13.5	Pass
	16-QAM	50	0	100	0	10.36	13	13.6	Pass
20MHz+10MHz									
Mid	QPSK	100	0	50	0	9.61	13	13.7	Pass
	16-QAM	100	0	50	0	10.31	13	13.8	Pass
15MHz+15MHz									
Mid	QPSK	75	0	75	0	9.8	13	13.9	Pass
	16-QAM	75	0	75	0	10.45	13	13.10	Pass
15MHz+20MHz									
Mid	QPSK	75	0	100	0	9.52	13	13.11	Pass
	16-QAM	75	0	100	0	10.17	13	13.12	Pass
20MHz+15MHz									
Mid	QPSK	100	0	75	0	9.56	13	13.13	Pass
	16-QAM	100	0	75	0	10.22	13	13.14	Pass
20MHz+20MHz									
Mid	QPSK	100	0	100	0	9.7	13	13.15	Pass
	16-QAM	100	0	100	0	10.45	13	13.16	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-SZ2270591-501 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 <sup>Note2</sup>
GSM 850	LCH	0.246	0.312	1.1
	MCH	0.246	0.312	1.2
	HCH	0.245	0.313	1.3
GSM 1900	LCH	0.242	0.311	2.1
	MCH	0.243	0.314	2.2
	HCH	0.243	0.309	2.3
EGPRS 850	LCH	0.246	0.305	3.1
	MCH	0.242	0.308	3.2
	HCH	0.247	0.31	3.3
EGPRS 1900	LCH	0.246	0.312	4.1
	MCH	0.247	0.309	4.2
	HCH	0.248	0.316	4.3
WCDMA Band 2	LCH	4.118	4.712	5.1
	MCH	4.121	4.715	5.2
	HCH	4.122	4.713	5.3
WCDMA Band 4	LCH	4.114	4.71	6.1
	MCH	4.111	4.715	6.2
	HCH	4.122	4.701	6.3
WCDMA Band 5	LCH	4.127	4.749	7.1
	MCH	4.135	4.739	7.2
	HCH	4.128	4.743	7.3

## 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 <sup>Note2</sup>
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.085	1.231	8.1
			16-QAM	RB6#0	1.09	1.236	8.2
		MCH	QPSK	RB6#0	1.084	1.232	8.3
			16-QAM	RB6#0	1.084	1.216	8.4
		HCH	QPSK	RB6#0	1.09	1.229	8.5
			16-QAM	RB6#0	1.09	1.24	8.6
	3 MHz	LCH	QPSK	RB15#0	2.703	2.996	8.7
			16-QAM	RB15#0	2.699	2.988	8.8
		MCH	QPSK	RB15#0	2.71	3.011	8.9
			16-QAM	RB15#0	2.702	3.003	8.10
		HCH	QPSK	RB15#0	2.704	3.011	8.11
			16-QAM	RB15#0	2.699	3.01	8.12
	5 MHz	LCH	QPSK	RB25#0	4.51	4.959	8.13
			16-QAM	RB25#0	4.497	4.933	8.14
		MCH	QPSK	RB25#0	4.499	4.998	8.15
			16-QAM	RB25#0	4.514	4.979	8.16
		HCH	QPSK	RB25#0	4.493	4.951	8.17
			16-QAM	RB25#0	4.503	4.995	8.18
	10 MHz	LCH	QPSK	RB50#0	8.969	9.842	8.19
			16-QAM	RB50#0	8.955	9.829	8.20
		MCH	QPSK	RB50#0	8.961	9.836	8.21
			16-QAM	RB50#0	8.953	9.778	8.22
		HCH	QPSK	RB50#0	8.94	9.821	8.23
			16-QAM	RB50#0	8.932	9.83	8.24
	15 MHz	LCH	QPSK	RB75#0	13.452	14.75	8.25
			16-QAM	RB75#0	13.448	14.711	8.26
		MCH	QPSK	RB75#0	13.395	14.657	8.27
			16-QAM	RB75#0	13.436	14.665	8.28
		HCH	QPSK	RB75#0	13.364	14.677	8.29
			16-QAM	RB75#0	13.392	14.62	8.30
	20 MHz	LCH	QPSK	RB100#0	17.919	19.46	8.31
			16-QAM	RB100#0	17.947	19.58	8.32
		MCH	QPSK	RB100#0	17.877	19.355	8.33
			16-QAM	RB100#0	17.86	19.491	8.34
		HCH	QPSK	RB100#0	17.861	19.461	8.35
			16-QAM	RB100#0	17.822	19.395	8.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.087	1.236	9.1
			16-QAM	RB6#0	1.091	1.227	9.2
		MCH	QPSK	RB6#0	1.085	1.231	9.3
			16-QAM	RB6#0	1.086	1.22	9.4
		HCH	QPSK	RB6#0	1.087	1.223	9.5
			16-QAM	RB6#0	1.09	1.239	9.6
	3 MHz	LCH	QPSK	RB15#0	2.708	2.996	9.7
			16-QAM	RB15#0	2.703	3.006	9.8
		MCH	QPSK	RB15#0	2.704	3.017	9.9
			16-QAM	RB15#0	2.703	3.008	9.10
		HCH	QPSK	RB15#0	2.707	3.025	9.11
			16-QAM	RB15#0	2.7	3	9.12
	5 MHz	LCH	QPSK	RB25#0	4.514	4.974	9.13
			16-QAM	RB25#0	4.499	4.959	9.14
		MCH	QPSK	RB25#0	4.503	4.997	9.15
			16-QAM	RB25#0	4.509	4.968	9.16
		HCH	QPSK	RB25#0	4.501	4.945	9.17
			16-QAM	RB25#0	4.513	5.01	9.18
	10 MHz	LCH	QPSK	RB50#0	8.972	9.844	9.19
			16-QAM	RB50#0	8.965	9.847	9.20
		MCH	QPSK	RB50#0	8.946	9.762	9.21
			16-QAM	RB50#0	8.973	9.799	9.22
		HCH	QPSK	RB50#0	8.972	9.839	9.23
			16-QAM	RB50#0	8.97	9.873	9.24
	15 MHz	LCH	QPSK	RB75#0	13.433	14.649	9.25
			16-QAM	RB75#0	13.436	14.73	9.26
		MCH	QPSK	RB75#0	13.413	14.666	9.27
			16-QAM	RB75#0	13.454	14.678	9.28
		HCH	QPSK	RB75#0	13.447	14.669	9.29
			16-QAM	RB75#0	13.473	14.654	9.30
	20 MHz	LCH	QPSK	RB100#0	17.889	19.338	9.31
			16-QAM	RB100#0	17.925	19.483	9.32
		MCH	QPSK	RB100#0	17.893	19.368	9.33
			16-QAM	RB100#0	17.887	19.543	9.34
		HCH	QPSK	RB100#0	17.923	19.54	9.35
			16-QAM	RB100#0	17.906	19.509	9.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.086	1.237	10.1
			16-QAM	RB6#0	1.089	1.236	10.2
		MCH	QPSK	RB6#0	1.084	1.237	10.3
			16-QAM	RB6#0	1.085	1.227	10.4
		HCH	QPSK	RB6#0	1.093	1.227	10.5
			16-QAM	RB6#0	1.087	1.22	10.6
	3 MHz	LCH	QPSK	RB15#0	2.704	3.001	10.7
			16-QAM	RB15#0	2.695	3.032	10.8
		MCH	QPSK	RB15#0	2.703	3.026	10.9
			16-QAM	RB15#0	2.702	3.005	10.10
		HCH	QPSK	RB15#0	2.704	3.016	10.11
			16-QAM	RB15#0	2.695	3.033	10.12
	5 MHz	LCH	QPSK	RB25#0	4.507	4.984	10.13
			16-QAM	RB25#0	4.5	4.906	10.14
		MCH	QPSK	RB25#0	4.499	4.993	10.15
			16-QAM	RB25#0	4.519	4.981	10.16
		HCH	QPSK	RB25#0	4.491	4.955	10.17
			16-QAM	RB25#0	4.507	4.989	10.18
	10 MHz	LCH	QPSK	RB50#0	8.958	9.877	10.19
			16-QAM	RB50#0	8.966	9.778	10.20
		MCH	QPSK	RB50#0	8.95	9.831	10.21
			16-QAM	RB50#0	8.967	9.842	10.22
		HCH	QPSK	RB50#0	8.947	9.824	10.23
			16-QAM	RB50#0	8.946	9.843	10.24

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 <sup>Note2</sup>
Band 7	5 MHz	LCH	QPSK	RB25#0	4.507	4.984	11.1
			16-QAM	RB25#0	4.495	4.931	11.2
		MCH	QPSK	RB25#0	4.494	4.996	11.3
			16-QAM	RB25#0	4.52	4.982	11.4
		HCH	QPSK	RB25#0	4.49	4.944	11.5
			16-QAM	RB25#0	4.507	4.984	11.6
	10 MHz	LCH	QPSK	RB50#0	8.966	9.895	11.7
			16-QAM	RB50#0	8.974	9.766	11.8
		MCH	QPSK	RB50#0	8.958	9.859	11.9
			16-QAM	RB50#0	8.958	9.82	11.10
		HCH	QPSK	RB50#0	8.967	9.776	11.11
			16-QAM	RB50#0	8.961	9.851	11.12
	15 MHz	LCH	QPSK	RB75#0	13.431	14.718	11.13
			16-QAM	RB75#0	13.423	14.695	11.14
		MCH	QPSK	RB75#0	13.403	14.646	11.15
			16-QAM	RB75#0	13.416	14.664	11.16
		HCH	QPSK	RB75#0	13.414	14.774	11.17
			16-QAM	RB75#0	13.456	14.755	11.18
	20 MHz	LCH	QPSK	RB100#0	17.902	19.367	11.19
			16-QAM	RB100#0	17.934	19.5	11.20
		MCH	QPSK	RB100#0	17.882	19.432	11.21
			16-QAM	RB100#0	17.883	19.55	11.22
		HCH	QPSK	RB100#0	17.888	19.494	11.23
			16-QAM	RB100#0	17.892	19.439	11.24

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 <sup>Note2</sup>
Band 66	1.4 MHz	LCH	QPSK	RB6#0	1.088	1.229	12.1
			16-QAM	RB6#0	1.091	1.231	12.2
		MCH	QPSK	RB6#0	1.086	1.237	12.3
			16-QAM	RB6#0	1.083	1.218	12.4
		HCH	QPSK	RB6#0	1.088	1.233	12.5
			16-QAM	RB6#0	1.089	1.237	12.6
	3 MHz	LCH	QPSK	RB15#0	2.708	2.996	12.7
			16-QAM	RB15#0	2.7	2.984	12.8
		MCH	QPSK	RB15#0	2.703	2.984	12.9
			16-QAM	RB15#0	2.703	3.009	12.10
		HCH	QPSK	RB15#0	2.703	3.01	12.11
			16-QAM	RB15#0	2.7	2.991	12.12
	5 MHz	LCH	QPSK	RB25#0	4.508	4.986	12.13
			16-QAM	RB25#0	4.499	4.951	12.14
		MCH	QPSK	RB25#0	4.504	4.967	12.15
			16-QAM	RB25#0	4.512	4.976	12.16
		HCH	QPSK	RB25#0	4.496	4.939	12.17
			16-QAM	RB25#0	4.505	5.009	12.18
	10 MHz	LCH	QPSK	RB50#0	8.99	9.846	12.19
			16-QAM	RB50#0	8.963	9.837	12.20
		MCH	QPSK	RB50#0	8.975	9.802	12.21
			16-QAM	RB50#0	8.971	9.803	12.22
		HCH	QPSK	RB50#0	8.956	9.841	12.23
			16-QAM	RB50#0	8.953	9.783	12.24
	15 MHz	LCH	QPSK	RB75#0	13.446	14.728	12.25
			16-QAM	RB75#0	13.429	14.713	12.26
		MCH	QPSK	RB75#0	13.428	14.654	12.27
			16-QAM	RB75#0	13.454	14.677	12.28
		HCH	QPSK	RB75#0	13.39	14.729	12.29
			16-QAM	RB75#0	13.439	14.61	12.30
	20 MHz	LCH	QPSK	RB100#0	17.898	19.43	12.31
			16-QAM	RB100#0	17.923	19.469	12.32
		MCH	QPSK	RB100#0	17.886	19.437	12.33
			16-QAM	RB100#0	17.93	19.534	12.34
		HCH	QPSK	RB100#0	17.859	19.512	12.35
			16-QAM	RB100#0	17.862	19.372	12.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 38	5 MHz	LCH	QPSK	RB25#0	4.495	4.938	13.1
			16-QAM	RB25#0	4.502	4.982	13.2
		MCH	QPSK	RB25#0	4.499	4.992	13.3
			16-QAM	RB25#0	4.505	4.986	13.4
		HCH	QPSK	RB25#0	4.504	4.957	13.5
			16-QAM	RB25#0	4.498	4.963	13.6
	10 MHz	LCH	QPSK	RB50#0	8.982	9.906	13.7
			16-QAM	RB50#0	8.977	9.79	13.8
		MCH	QPSK	RB50#0	8.963	9.939	13.9
			16-QAM	RB50#0	8.946	9.767	13.10
		HCH	QPSK	RB50#0	8.992	9.862	13.11
			16-QAM	RB50#0	8.973	9.831	13.12
	15 MHz	LCH	QPSK	RB75#0	13.468	14.754	13.13
			16-QAM	RB75#0	13.455	14.735	13.14
		MCH	QPSK	RB75#0	13.416	14.731	13.15
			16-QAM	RB75#0	13.484	14.735	13.16
		HCH	QPSK	RB75#0	13.4	14.744	13.17
			16-QAM	RB75#0	13.476	14.728	13.18
	20 MHz	LCH	QPSK	RB100#0	17.939	19.424	13.19
			16-QAM	RB100#0	17.895	19.535	13.20
		MCH	QPSK	RB100#0	17.884	19.427	13.21
			16-QAM	RB100#0	17.904	19.48	13.22
		HCH	QPSK	RB100#0	17.917	19.648	13.23
			16-QAM	RB100#0	17.901	19.536	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 <sup>Note2</sup>
Band 41	5 MHz	LCH	QPSK	RB25#0	4.507	5.113	14.1
			16-QAM	RB25#0	4.505	5.015	14.2
		MCH	QPSK	RB25#0	4.502	4.942	14.3
			16-QAM	RB25#0	4.497	4.966	14.4
		HCH	QPSK	RB25#0	4.494	4.963	14.5
			16-QAM	RB25#0	4.508	5.088	14.6
	10 MHz	LCH	QPSK	RB50#0	8.979	9.896	14.7
			16-QAM	RB50#0	8.976	9.8	14.8
		MCH	QPSK	RB50#0	8.964	9.922	14.9
			16-QAM	RB50#0	8.938	9.767	14.10
		HCH	QPSK	RB50#0	8.989	9.824	14.11
			16-QAM	RB50#0	8.962	9.815	14.12
	15 MHz	LCH	QPSK	RB75#0	13.468	14.722	14.13
			16-QAM	RB75#0	13.433	14.742	14.14
		MCH	QPSK	RB75#0	13.404	14.708	14.15
			16-QAM	RB75#0	13.475	14.76	14.16
		HCH	QPSK	RB75#0	13.385	14.713	14.17
			16-QAM	RB75#0	13.46	14.711	14.18
	20 MHz	LCH	QPSK	RB100#0	17.92	19.389	14.19
			16-QAM	RB100#0	17.896	19.534	14.20
		MCH	QPSK	RB100#0	17.868	19.432	14.21
			16-QAM	RB100#0	17.89	19.472	14.22
		HCH	QPSK	RB100#0	17.853	19.395	14.23
			16-QAM	RB100#0	17.835	19.375	14.24

Test Channel	Modulation	PCC RB		SCC RB		Measured 99% Occupied Bandwidth (MHz)	Measured - 26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
		Size	Offset	Size	Offset			
<b>CA_7C</b>								
10MHz+20MHz								
Mid	QPSK	50	0	100	0	27.76	29.66	15.1
	16-QAM	50	0	100	0	27.73	29.54	15.2
20MHz+10MHz								
Mid	QPSK	100	0	50	0	27.76	29.58	15.3
	16-QAM	100	0	50	0	27.74	29.5	15.4
15MHz+15MHz								
Mid	QPSK	75	0	75	0	28.33	30.34	15.5
	16-QAM	75	0	75	0	28.41	30.31	15.6
15MHz+20MHz								
Mid	QPSK	75	0	100	0	32.65	34.81	15.7
	16-QAM	75	0	100	0	32.59	34.77	15.8
20MHz+15MHz								
Mid	QPSK	100	0	75	0	32.58	34.77	15.9
	16-QAM	100	0	75	0	32.61	34.71	15.10
20MHz+20MHz								
Mid	QPSK	100	0	100	0	37.53	39.95	15.11
	16-QAM	100	0	100	0	37.47	40.03	15.12

Test Channel	Modulation	PCC RB		SCC RB		Measured 99% Occupied Bandwidth (MHz)	Measured - 26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
		Size	Offset	Size	Offset			
<b>CA_38C</b>								
15MHz+15MHz								
Mid	QPSK	75	0	75	0	28.41	30.19	16.1
	16-QAM	75	0	75	0	28.45	30.4	16.2
20MHz+20MHz								
Mid	QPSK	100	0	100	0	37.62	40.11	16.3
	16-QAM	100	0	100	0	37.56	39.95	16.4

Test Channel	Modulation	PCC RB		SCC RB		Measured 99% Occupied Bandwidth (MHz)	Measured - 26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
		Size	Offset	Size	Offset			
<b>CA_41C</b>								
5MHz+20MHz								
Mid	QPSK	25	0	100	0	22.91	24.27	17.1
	16-QAM	25	0	100	0	22.9	24.32	17.2
20MHz+5MHz								
Mid	QPSK	100	0	25	0	22.9	24.26	17.3
	16-QAM	100	0	25	0	22.88	24.25	17.4
10MHz+20MHz								
Mid	QPSK	50	0	100	0	27.81	29.7	17.5
	16-QAM	50	0	100	0	27.76	29.48	17.6
20MHz+10MHz								
Mid	QPSK	100	0	50	0	27.75	29.51	17.7
	16-QAM	100	0	50	0	27.73	29.53	17.8
15MHz+15MHz								
Mid	QPSK	75	0	75	0	28.35	30.19	17.9
	16-QAM	75	0	75	0	28.42	30.39	17.10
15MHz+20MHz								
Mid	QPSK	75	0	100	0	32.67	34.74	17.11
	16-QAM	75	0	100	0	32.61	34.73	17.12
20MHz+15MHz								
Mid	QPSK	100	0	75	0	32.66	34.72	17.13
	16-QAM	100	0	75	0	32.64	34.8	17.14
20MHz+20MHz								
Mid	QPSK	100	0	100	0	37.58	39.93	17.15
	16-QAM	100	0	100	0	37.56	40.05	17.16

## 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)	
3.87	-30	7.81	±2060.5	9.01	±2091.5	11.3	±2122	Pass
	-20	9.62		5.17		4.33		
	-10	10.4		-2.29		9.07		
	0	4.29		6.46		13.14		
	+10	9.4		-4.33		9.75		
	+20	11.95		5.17		13.33		
	+25	9.65		11.85		11.62		
	+30	11.3		5.84		11.27		
	+40	5.17		8.46		5.17		
	+50	12.72		6.17		10.46		
4.45	+25	7.65		11.49		7.75		
3.6	+25	9.01		11.53		10.75		
				1.9		7.75		

## 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)	
3.87	-30	9.94	±4625.5	-12.95	±4700.0	15.53	±4774.5	Pass
	-20	17.05		8.3		19.27		
	-10	20.82		14.08		18.92		
	0	11.01		-5.33		10.17		
	+10	20.37		7.52		16.85		
	+20	14.4		-3.58		8.17		
	+25	25.86		-5.84		6.68		
	+30	22.6		11.17		18.14		
	+40	13.2		-5		2.71		
	+50	22.86		10.53		4		
4.45	+25	11.82		9.1		13.46		
3.6	+25	-2.52		-4.71		4.13		
				9.75		18.37		

## 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)	
3.87	-30	17.95	±2060.5	13.3	±2091.5	12.56	±2122	Pass
	-20	15.98		18.24		9.2		
	-10	10.82		18.73		12.88		
	0	17.24		17.18		11.27		
	+10	18.14		14.3		14.37		
	+20	14.11		13.3		16.79		
	+25	19.44		18.89		27.22		
	+30	19.63		17.14		9.75		
	+40	11.78		17.82		11.2		
	+50	19.92		17.72		12.14		
	+55	11.85	19.86	13.14				
4.45	+25	15.21		16.76		16.14		
3.6	+25	15.56		12.46		17.24		

## 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)	
3.87	-30	12.14	±4625.5	14.79	±4700.0	-8.1	±4774.5	Pass
	-20	14.85		15.24		-4.68		
	-10	6.94		15.34		4.29		
	0	11.36		19.11		6.01		
	+10	14.11		18.02		5.65		
	+20	22.02		23.67		6.72		
	+25	20.4		23.83		9.17		
	+30	22.96		9.17		14.43		
	+40	10.36		10.56		12.82		
	+50	12.14		13.72		14.43		
	+55	21.24	23.73	9.2				
4.45	+25	16.34		18.69		-2.87		
3.6	+25	14.08		19.15		-3.36		

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)	
3.87	-30	34.19	±2060.5	11.62	±2091.5	18.24	±2122	Pass
	-20	59.02		20.76		22.66		
	-10	38.23		39.13		15.3		
	0	41.52		21.02		16.85		
	+10	56.31		15.85		38.48		
	+20	23.25		55.24		21.99		
	+25	20.86		28.73		19.92		
	+30	23.41		29.22		49.53		
	+40	15.34		17.05		17.11		
	+50	30.9		18.47		38.78		
	+55	21.37	34.71	23.25				
4.45	+25	28.02		47.94		47.75		
3.6	+25	50.43		17.47		48.17		

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)	
3.87	-30	18.82	±4625.5	19.4	±4700.0	37.52	±4774.5	Pass
	-20	26.28		47.72		33		
	-10	18.85		123.49		91.76		
	0	50.69		118.52		101.83		
	+10	23.6		51.01		80.04		
	+20	80.55		12.72		104.03		
	+25	71.71		119.04		17.76		
	+30	20.5		81.81		41.87		
	+40	85.43		4.26		91.89		
	+50	17.31		132.21		5.17		
	+55	63.8	72.32	41.81				
4.45	+25	99.41		114.26		83.36		
3.6	+25	34.19		48.72		-18.56		

## 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)	
3.87	-30	6.65	±4631	7.56	±4700	2.78	±4769	Pass
	-20	6.87		6.34		2.78		
	-10	7.53		7.08		1.98		
	0	8.26		6.79		2.16		
	+10	8.47		6.5		2.08		
	+20	6.7		7.25		1.65		
	+25	6.44		5.84		1.82		
	+30	8.55		7.05		1.71		
	+40	8.01		5.7		1.8		
	+50	9.16		6.7		1.27		
	+55	6.28	7.01	1.44				
4.45	+25	6.79		6.17		0.82		
3.6	+25	8.07		6.97		1.12		

## WCDMA Band 4

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1712.4 MHz		MCH 1732.4 MHz		HCH 1752.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.87	-30	17.96	±4281	1.26	±4331	-16.92	±4381.5	Pass
	-20	17.34		1.83		-17.94		
	-10	17.19		0.99		-17.22		
	0	18.29		0.69		-17.14		
	+10	18.67		0.24		-16.95		
	+20	18.89		0.73		-17.55		
	+25	17.37		1.22		-17.09		
	+30	17.31		1.2		-17.12		
	+40	18.33		0.89		-16.47		
	+50	17.31		-0.13		-17.37		
	+55	17.41	1.22	-17.28				
4.45	+25	17.56		0.85		-16.59		
3.6	+25	18		0.7		-17.51		

## 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)	
3.87	-30	-1.08	±2066	-3.19	±2091	-4.21	±2116.5	Pass
	-20	-0.27		-3.66		-4.66		
	-10	-0.84		-3.86		-4.63		
	0	-0.54		-3.86		-4.63		
	+10	-1.26		-3.9		-4.78		
	+20	-0.59		-4.2		-4.46		
	+25	-1.08		-3.54		-4.96		
	+30	-1.92		-3.86		-4.83		
	+40	-0.94		-3.88		-4.84		
	+50	-0.82		-3.59		-4.78		
	+55	-1.18		-4.2		-4.36		
4.45	+25	-0.92		-3.78		-4.72		
3.6	+25	-0.19		-3.71		-5.2		

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	2.53	±4700	Pass
	-20	5.69		
	-10	7.32		
	0	5.76		
	+10	1.39		
	+20	6.59		
	+25	2.75		
	+30	-1.89		
	+40	6.85		
	+50	9.73		
4.45	+25	3.91		
3.6	+25	6.78		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	4.56	±4700	Pass
	-20	3.69		
	-10	3.63		
	0	2.7		
	+10	4.05		
	+20	0.39		
	+25	10.64		
	+30	2.59		
	+40	3.75		
	+50	-2.4		
4.45	+25	10.9		
3.6	+25	1.44		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	-1.6	±4331.25	Pass
	-20	-3.02		
	-10	3.46		
	0	13.49		
	+10	4.31		
	+20	1.02		
	+25	-0.59		
	+30	9.47		
	+40	0.19		
	+50	8.65		
4.45	+25	-2.16		
3.6	+25	10.66		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	0.56	±4331.25	Pass
	-20	0.1		
	-10	5.12		
	0	1.4		
	+10	6.95		
	+20	3.75		
	+25	7.21		
	+30	7.85		
	+40	5.98		
	+50	8.81		
4.45	+25	1.56		
3.6	+25	-0.59		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	1.63	±2091.25	Pass
	-20	-3.18		
	-10	-5.97		
	0	-3.75		
	+10	-4.29		
	+20	-0.43		
	+25	-3.03		
	+30	-6.05		
	+40	-6.95		
	+50	-1.22		
4.45	+25	-3.05		
3.6	+25	-6.01		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	-3.63	±2091.25	Pass
	-20	-1.1		
	-10	-2.25		
	0	-5.54		
	+10	-6.68		
	+20	-3.43		
	+25	-5.09		
	+30	-1.24		
	+40	-2.68		
	+50	-7.67		
4.45	+25	-1.92		
3.6	+25	-0.26		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	-1.7	±6337.5	Pass
	-20	6.71		
	-10	4.66		
	0	-1.24		
	+10	5.76		
	+20	2.05		
	+25	-0.37		
	+30	-6.32		
	+40	4.26		
	+50	-2.56		
4.45	+25	-4.26		
3.6	+25	-6.48		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	0.92	±6337.5	Pass
	-20	-1.42		
	-10	2.72		
	0	0.44		
	+10	6.07		
	+20	-6.61		
	+25	1.33		
	+30	-6.18		
	+40	3.18		
	+50	4.23		
4.45	+25	1.47		
3.6	+25	5.75		

## LTE Band 66 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1745 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	0.49	±4362.5	Pass
	-20	-0.16		
	-10	1.59		
	0	-6.37		
	+10	-6.17		
	+20	3.58		
	+25	-3.58		
	+30	-2.3		
	+40	-1.16		
	+50	6.32		
4.45	+25	-4.41		
3.6	+25	-4.39		

## LTE Band 66 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1745 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	-0.41	±4362.5	Pass
	-20	2.29		
	-10	6.35		
	0	-6.38		
	+10	-8.11		
	+20	-7.97		
	+25	0.01		
	+30	-10.29		
	+40	6.55		
	+50	-6.79		
4.45	+25	-4.22		
3.6	+25	-0.46		

LTE Band 38 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2595 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	-6.18	±6487.5	Pass
	-20	-3.23		
	-10	-0.51		
	0	0.83		
	+10	-6.54		
	+20	-8.3		
	+25	-7.08		
	+30	4.11		
	+40	-5.92		
	+50	-1.2		
4.45	+25	-2.72		
3.6	+25	-5.58		

LTE Band 38 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2595 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	0.23	±6487.5	Pass
	-20	-2.56		
	-10	-0.73		
	0	-6.01		
	+10	3.46		
	+20	-4.18		
	+25	-4.25		
	+30	-3.4		
	+40	-0.62		
	+50	0.59		
4.45	+25	-6.84		
3.6	+25	2.62		

LTE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2593 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	1.33	±6482.5	Pass
	-20	-3.1		
	-10	9.66		
	0	-2.22		
	+10	-1.42		
	+20	7.32		
	+25	11.49		
	+30	9.77		
	+40	5.02		
	+50	0.03		
4.45	+25	-2.09		
3.6	+25	6.59		

LTE Band 41 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2593 MHz		
		Value (Hz)	Limits (Hz)	
3.87	-30	1.96	±6482.5	Pass
	-20	-1.62		
	-10	7.14		
	0	0.4		
	+10	-1.02		
	+20	10.03		
	+25	0.97		
	+30	7.37		
	+40	3.4		
	+50	8.5		
4.45	+25	-0.31		
3.6	+25	2.49		

## CA\_7C\_QPSK\_20MHz+10MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2530.1 MHz		SCC MCH 2544.5 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	12.39	±6,325.25	-13.39	±6,361.25	Pass
	-20	19		-14.42		
	-10	15.11		-16.52		
	0	20.84		-15.29		
	+10	15.75		-19.03		
	+20	14.03		-14.02		
	+25	17.01		-16.05		
	+30	15.29		-16.69		
	+40	15.94		-19.97		
	+50	16.52		-14.72		
	+55	17.91		-16.73		
4.45	+25	21.51		-15.68		
3.6	+25	14.48		-18.63		

## CA\_7C\_16QAM\_20MHz+10MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2530.1 MHz		SCC MCH 2544.5 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	14.13	±6,325.25	-13.54	±6,361.25	Pass
	-20	16.04		-17		
	-10	13.15		-12.36		
	0	12.35		-18.88		
	+10	20.74		-20.27		
	+20	22.56		-14.15		
	+25	23.66		-12.26		
	+30	24.09		-8.74		
	+40	12.12		-12.17		
	+50	10.94		-16.26		
	+55	13.76		-8.99		
4.45	+25	11.7		-21.29		
3.6	+25	12.22		-11.59		

## CA\_7C\_QPSK\_20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2525.1 MHz		SCC MCH 2544.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	25.11	±6,312.75	-21.6	±6,362.25	Pass
	-20	26.19		-20.71		
	-10	24		-21.16		
	0	26.95		-20.91		
	+10	24.33		-22.51		
	+20	26.91		21.62		
	+25	28.71		-22.27		
	+30	25.56		-19.97		
	+40	25.68		-20.53		
	+50	24.45		-19.53		
	+55	25.65		-17.63		
4.45	+25	26.72		-21.94		
3.6	+25	24.09		-20.44		

## CA\_7C\_16QAM\_20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2525.1 MHz		SCC MCH 2544.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	17.4	±6,312.75	-24.23	±6,362.25	Pass
	-20	18.71		-26.05		
	-10	20.28		-27.7		
	0	24.5		-23.09		
	+10	24.13		-29.31		
	+20	19.77		-24.65		
	+25	23.12		-23.6		
	+30	26.05		-24.36		
	+40	26.36		-24.75		
	+50	24.3		-26.27		
	+55	20.91		-24.74		
4.45	+25	27.17		-27.79		
3.6	+25	19.21		-30.04		

## CA\_38C QPSK 15MHz+15MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2587.5 MHz		SCC MCH 2602.5 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	10.16	±6,468.75	-12.89	±6,506.25	Pass
	-20	15.62		-14.12		
	-10	14.02		-17.28		
	0	16.67		-17.51		
	+10	16.45		-18.54		
	+20	11.26		-16.12		
	+25	12.13		-9.14		
	+30	9.57		-16.39		
	+40	12.27		-14.13		
	+50	11.6		-8.41		
	+55	13.53		-9.18		
4.45	+25	11.71		-8.37		
3.6	+25	12.67		-13.88		

## CA\_38C 16QAM 15MHz+15MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2587.5 MHz		SCC MCH 2602.5 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	11.7	±6,468.75	-11.03	±6,506.25	Pass
	-20	14.73		-15.05		
	-10	14.18		-19.07		
	0	12.43		-12.9		
	+10	14.99		-10.5		
	+20	8.01		-10.12		
	+25	11.2		-9.47		
	+30	10.89		-15.51		
	+40	11.47		-11.43		
	+50	13.19		-11.23		
	+55	12.53		-13.24		
4.45	+25	12.29		-12.9		
3.6	+25	8.43		-16.62		

## CA\_38C QPSK 20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2585.1 MHz		SCC MCH 2604.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	12.22	±6,462.75	-16.99	±6,512.25	Pass
	-20	13.45		-14.13		
	-10	15.44		-15.05		
	0	15.41		-13.46		
	+10	16.81		-18.71		
	+20	17.71		-15.78		
	+25	14.98		-16.16		
	+30	18.77		-11.19		
	+40	18.87		-15.06		
	+50	17.04		-14.23		
	+55	16.88		-13.8		
4.45	+25	19.05		-14.06		
3.6	+25	12.07		-14		

## CA\_38C 16QAM 20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2585.1 MHz		SCC MCH 2604.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	17.27	±6,462.75	-17.27	±6,512.25	Pass
	-20	18.45		-14.75		
	-10	15.65		-19.25		
	0	20.06		-14.91		
	+10	16.01		-14.66		
	+20	15.23		-15.74		
	+25	20.01		-17.67		
	+30	21.55		-15.16		
	+40	17.7		-16.32		
	+50	16.06		-14.19		
	+55	15.44		-13.87		
4.45	+25	18.23		-14.36		
3.6	+25	21.06		-13.56		

## CA\_41C QPSK 20MHz+5MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2590.5 MHz		SCC MCH 2602.2 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	3.58	±6,476.25	-20.57	±6,505.5	Pass
	-20	3.81		-13.33		
	-10	4.31		-14.92		
	0	0.89		-23.37		
	+10	-1.13		-13.02		
	+20	2.85		-18.6		
	+25	1.47		-11.93		
	+30	-3.88		-16.05		
	+40	-5.31		-21.97		
	+50	-4.13		-12.45		
	+55	1.54		-15.86		
4.45	+25	-3.78		-21.94		
3.6	+25	3.72		-11.42		

## CA\_41C 16QAM 20MHz+5MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2590.5 MHz		SCC MCH 2602.2 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	3.16	±6,476.25	-22.27	±6,505.5	Pass
	-20	1.73		-19.13		
	-10	2.89		-16.35		
	0	2.83		-20.01		
	+10	4.75		-21.54		
	+20	5.04		-17.15		
	+25	0.29		-22.44		
	+30	-0.09		-29.08		
	+40	6.65		-26.12		
	+50	1.96		-17.91		
	+55	1.09		-18.41		
4.45	+25	-0.94		-21.04		
3.6	+25	6.42		-23.76		

## CA\_41C QPSK 20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2583.1 MHz		SCC MCH 2602.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	25.59	±6,457.75	-8.33	±6,507.25	Pass
	-20	26.01		-9.04		
	-10	24.12		-8.91		
	0	26.82		-8.18		
	+10	28.71		-7.61		
	+20	23.16		-15.08		
	+25	19.07		-10.16		
	+30	17.38		-11.64		
	+40	20.37		-7.75		
	+50	27.77		-11.99		
	+55	23.54		-9.89		
4.45	+25	26.08		-6.59		
3.6	+25	21.23		-13.28		

## CA\_41C 16QAM 20MHz+20MHz

Test Conditions		Frequency Deviation				Verdict
Power (VDC)	Temperature (°C)	PCC MCH 2583.1 MHz		SCC MCH 2602.9 MHz		
		Value(Hz)	Limits (Hz)	Value(Hz)	Limits (Hz)	
3.87	-30	19.77	±6,457.75	-11.67	±6,507.25	Pass
	-20	21.77		-11.52		
	-10	17.41		-10.82		
	0	15.25		-9.41		
	+10	20.53		-7.75		
	+20	15.65		-9.53		
	+25	21.3		-9.94		
	+30	16.14		-10.39		
	+40	18.95		-9.74		
	+50	22.57		-12.09		
	+55	18.9		-10.17		
4.45	+25	15.31		-9.17		
3.6	+25	15.69		-7.27		

## 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-SZ2270591-501 Data Part 3.pdf".

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	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
WCDMA Band 2	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
WCDMA Band 4	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 5	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass

### LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	8.1	Pass
			16-QAM	RB1#0	8.2	Pass
		MCH	QPSK	RB1#0	8.3	Pass
			16-QAM	RB1#0	8.4	Pass
		HCH	QPSK	RB1#0	8.5	Pass
			16-QAM	RB1#0	8.6	Pass
	3 MHz	LCH	QPSK	RB1#0	8.7	Pass
			16-QAM	RB1#0	8.8	Pass
		MCH	QPSK	RB1#0	8.9	Pass
			16-QAM	RB1#0	8.10	Pass
		HCH	QPSK	RB1#0	8.11	Pass
			16-QAM	RB1#0	8.12	Pass
	5 MHz	LCH	QPSK	RB1#0	8.13	Pass
			16-QAM	RB1#0	8.14	Pass
		MCH	QPSK	RB1#0	8.15	Pass
			16-QAM	RB1#0	8.16	Pass
		HCH	QPSK	RB1#0	8.17	Pass
			16-QAM	RB1#0	8.18	Pass
	10 MHz	LCH	QPSK	RB1#0	8.19	Pass
			16-QAM	RB1#0	8.20	Pass
		MCH	QPSK	RB1#0	8.21	Pass
			16-QAM	RB1#0	8.22	Pass
		HCH	QPSK	RB1#0	8.23	Pass
			16-QAM	RB1#0	8.24	Pass
	15 MHz	LCH	QPSK	RB1#0	8.25	Pass
			16-QAM	RB1#0	8.26	Pass
		MCH	QPSK	RB1#0	8.27	Pass
			16-QAM	RB1#0	8.28	Pass
		HCH	QPSK	RB1#0	8.29	Pass
			16-QAM	RB1#0	8.30	Pass
	20 MHz	LCH	QPSK	RB1#0	8.31	Pass
			16-QAM	RB1#0	8.32	Pass
		MCH	QPSK	RB1#0	8.33	Pass
			16-QAM	RB1#0	8.34	Pass
		HCH	QPSK	RB1#0	8.35	Pass
			16-QAM	RB1#0	8.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	9.1	Pass
			16-QAM	RB1#0	9.2	Pass
		MCH	QPSK	RB1#0	9.3	Pass
			16-QAM	RB1#0	9.4	Pass
		HCH	QPSK	RB1#0	9.5	Pass
			16-QAM	RB1#0	9.6	Pass
	3 MHz	LCH	QPSK	RB1#0	9.7	Pass
			16-QAM	RB1#0	9.8	Pass
		MCH	QPSK	RB1#0	9.9	Pass
			16-QAM	RB1#0	9.10	Pass
		HCH	QPSK	RB1#0	9.11	Pass
			16-QAM	RB1#0	9.12	Pass
	5 MHz	LCH	QPSK	RB1#0	9.13	Pass
			16-QAM	RB1#0	9.14	Pass
		MCH	QPSK	RB1#0	9.15	Pass
			16-QAM	RB1#0	9.16	Pass
		HCH	QPSK	RB1#0	9.17	Pass
			16-QAM	RB1#0	9.18	Pass
	10 MHz	LCH	QPSK	RB1#0	9.19	Pass
			16-QAM	RB1#0	9.20	Pass
		MCH	QPSK	RB1#0	9.21	Pass
			16-QAM	RB1#0	9.22	Pass
		HCH	QPSK	RB1#0	9.23	Pass
			16-QAM	RB1#0	9.24	Pass
	15 MHz	LCH	QPSK	RB1#0	9.25	Pass
			16-QAM	RB1#0	9.26	Pass
		MCH	QPSK	RB1#0	9.27	Pass
			16-QAM	RB1#0	9.28	Pass
		HCH	QPSK	RB1#0	9.29	Pass
			16-QAM	RB1#0	9.30	Pass
	20 MHz	LCH	QPSK	RB1#0	9.31	Pass
			16-QAM	RB1#0	9.32	Pass
		MCH	QPSK	RB1#0	9.33	Pass
			16-QAM	RB1#0	9.34	Pass
		HCH	QPSK	RB1#0	9.35	Pass
			16-QAM	RB1#0	9.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
			16-QAM	RB1#0	10.2	Pass
		MCH	QPSK	RB1#0	10.3	Pass
			16-QAM	RB1#0	10.4	Pass
		HCH	QPSK	RB1#0	10.5	Pass
			16-QAM	RB1#0	10.6	Pass
	3 MHz	LCH	QPSK	RB1#0	10.7	Pass
			16-QAM	RB1#0	10.8	Pass
		MCH	QPSK	RB1#0	10.9	Pass
			16-QAM	RB1#0	10.10	Pass
		HCH	QPSK	RB1#0	10.11	Pass
			16-QAM	RB1#0	10.12	Pass
	5 MHz	LCH	QPSK	RB1#0	10.13	Pass
			16-QAM	RB1#0	10.14	Pass
		MCH	QPSK	RB1#0	10.15	Pass
			16-QAM	RB1#0	10.16	Pass
		HCH	QPSK	RB1#0	10.17	Pass
			16-QAM	RB1#0	10.18	Pass
	10 MHz	LCH	QPSK	RB1#0	10.19	Pass
			16-QAM	RB1#0	10.20	Pass
		MCH	QPSK	RB1#0	10.21	Pass
			16-QAM	RB1#0	10.22	Pass
		HCH	QPSK	RB1#0	10.23	Pass
			16-QAM	RB1#0	10.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	11.1	Pass
			16-QAM	RB1#0	11.2	Pass
		MCH	QPSK	RB1#0	11.3	Pass
			16-QAM	RB1#0	11.4	Pass
		HCH	QPSK	RB1#0	11.5	Pass
			16-QAM	RB1#0	11.6	Pass
	10 MHz	LCH	QPSK	RB1#0	11.7	Pass
			16-QAM	RB1#0	11.8	Pass
		MCH	QPSK	RB1#0	11.9	Pass
			16-QAM	RB1#0	11.10	Pass
		HCH	QPSK	RB1#0	11.11	Pass
			16-QAM	RB1#0	11.12	Pass
	15 MHz	LCH	QPSK	RB1#0	11.13	Pass
			16-QAM	RB1#0	11.14	Pass
		MCH	QPSK	RB1#0	11.15	Pass
			16-QAM	RB1#0	11.16	Pass
		HCH	QPSK	RB1#0	11.17	Pass
			16-QAM	RB1#0	11.18	Pass
	20 MHz	LCH	QPSK	RB1#0	11.19	Pass
			16-QAM	RB1#0	11.20	Pass
		MCH	QPSK	RB1#0	11.21	Pass
			16-QAM	RB1#0	11.22	Pass
		HCH	QPSK	RB1#0	11.23	Pass
			16-QAM	RB1#0	11.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 66	1.4 MHz	LCH	QPSK	RB1#0	12.1	Pass
			16-QAM	RB1#0	12.2	Pass
		MCH	QPSK	RB1#0	12.3	Pass
			16-QAM	RB1#0	12.4	Pass
		HCH	QPSK	RB1#0	12.5	Pass
			16-QAM	RB1#0	12.6	Pass
	3 MHz	LCH	QPSK	RB1#0	12.7	Pass
			16-QAM	RB1#0	12.8	Pass
		MCH	QPSK	RB1#0	12.9	Pass
			16-QAM	RB1#0	12.10	Pass
		HCH	QPSK	RB1#0	12.11	Pass
			16-QAM	RB1#0	12.12	Pass
	5 MHz	LCH	QPSK	RB1#0	12.13	Pass
			16-QAM	RB1#0	12.14	Pass
		MCH	QPSK	RB1#0	12.15	Pass
			16-QAM	RB1#0	12.16	Pass
		HCH	QPSK	RB1#0	12.17	Pass
			16-QAM	RB1#0	12.18	Pass
	10 MHz	LCH	QPSK	RB1#0	12.19	Pass
			16-QAM	RB1#0	12.20	Pass
		MCH	QPSK	RB1#0	12.21	Pass
			16-QAM	RB1#0	12.22	Pass
		HCH	QPSK	RB1#0	12.23	Pass
			16-QAM	RB1#0	12.24	Pass
	15 MHz	LCH	QPSK	RB1#0	12.25	Pass
			16-QAM	RB1#0	12.26	Pass
		MCH	QPSK	RB1#0	12.27	Pass
			16-QAM	RB1#0	12.28	Pass
		HCH	QPSK	RB1#0	12.29	Pass
			16-QAM	RB1#0	12.30	Pass
	20 MHz	LCH	QPSK	RB1#0	12.31	Pass
			16-QAM	RB1#0	12.32	Pass
		MCH	QPSK	RB1#0	12.33	Pass
			16-QAM	RB1#0	12.34	Pass
		HCH	QPSK	RB1#0	12.35	Pass
			16-QAM	RB1#0	12.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 38	5 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
	10 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
	15 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
	20 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 <sup>Note3</sup>	Verdict
Band 41	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 Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_7C</b>							
20MHz+10MHz							
Low	QPSK	1	0	1	49	15.1	Pass
		100	0	50	0	15.2	Pass
	16QAM	1	0	1	49	15.3	Pass
		100	0	50	0	15.4	Pass
Mid	QPSK	1	0	1	49	15.5	Pass
		100	0	50	0	15.6	Pass
	16QAM	1	0	1	49	15.7	Pass
		100	0	50	0	15.8	Pass
High	QPSK	1	0	1	49	15.9	Pass
		100	0	50	0	15.10	Pass
	16QAM	1	0	1	49	15.11	Pass
		100	0	50	0	15.12	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	99	15.13	Pass
		100	0	100	0	15.14	Pass
	16QAM	1	0	1	99	15.15	Pass
		100	0	100	0	15.16	Pass
Mid	QPSK	1	0	1	99	15.17	Pass
		100	0	100	0	15.18	Pass
	16QAM	1	0	1	99	15.19	Pass
		100	0	100	0	15.20	Pass
High	QPSK	1	0	1	99	15.21	Pass
		100	0	100	0	15.22	Pass
	16QAM	1	0	1	99	15.23	Pass
		100	0	100	0	15.24	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_38C</b>							
15MHz+15MHz							
Low	QPSK	1	0	1	74	16.1	Pass
		75	0	75	0	16.2	Pass
	16QAM	1	0	1	74	16.3	Pass
		75	0	75	0	16.4	Pass
Mid	QPSK	1	0	1	74	16.5	Pass
		75	0	75	0	16.6	Pass
	16QAM	1	0	1	74	16.7	Pass
		75	0	75	0	16.8	Pass
High	QPSK	1	0	1	74	16.9	Pass
		75	0	75	0	16.10	Pass
	16QAM	1	0	1	74	16.11	Pass
		75	0	75	0	16.12	Pass
20MHz+20MHz							
Low	QPSK	1	99	1	0	16.13	Pass
		100	0	100	0	16.14	Pass
	16QAM	1	99	1	0	16.15	Pass
		100	0	100	0	16.16	Pass
Mid	QPSK	1	99	1	0	16.17	Pass
		100	0	100	0	16.18	Pass
	16QAM	1	99	1	0	16.19	Pass
		100	0	100	0	16.20	Pass
High	QPSK	1	99	1	0	16.21	Pass
		100	0	100	0	16.22	Pass
	16QAM	1	99	1	0	16.23	Pass
		100	0	100	0	16.24	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_41C</b>							
<b>20MHz+5MHz</b>							
Low	QPSK	1	0	1	24	17.1	Pass
		100	0	25	0	17.2	Pass
	16QAM	1	0	1	24	17.3	Pass
		100	0	25	0	17.4	Pass
Mid	QPSK	1	0	1	24	17.5	Pass
		100	0	25	0	17.6	Pass
	16QAM	1	0	1	24	17.7	Pass
		100	0	25	0	17.8	Pass
High	QPSK	1	0	1	24	17.9	Pass
		100	0	25	0	17.10	Pass
	16QAM	1	0	1	24	17.11	Pass
		100	0	25	0	17.12	Pass
<b>20MHz+20MHz</b>							
Low	QPSK	1	0	1	99	17.13	Pass
		100	0	100	0	17.14	Pass
	16QAM	1	0	1	99	17.15	Pass
		100	0	100	0	17.16	Pass
Mid	QPSK	1	0	1	99	17.17	Pass
		100	0	100	0	17.18	Pass
	16QAM	1	0	1	99	17.19	Pass
		100	0	100	0	17.20	Pass
High	QPSK	1	0	1	99	17.21	Pass
		100	0	100	0	17.22	Pass
	16QAM	1	0	1	99	17.23	Pass
		100	0	100	0	17.24	Pass

## A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-SZ2270591-501 Data Part 4.pdf”.

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note1</sup>	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
WCDMA Band 2	LCH	5.1	Pass
	HCH	5.2	Pass
WCDMA Band 4	LCH	6.1	Pass
	HCH	6.2	Pass
WCDMA Band 5	LCH	7.1	Pass
	HCH	7.2	Pass

## LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	8.1	Pass
				RB6#0	8.2	Pass
			16-QAM	RB1#0	8.3	Pass
				RB6#0	8.4	Pass
		HCH	QPSK	RB1#5	8.5	Pass
				RB6#0	8.6	Pass
			16-QAM	RB1#5	8.7	Pass
				RB6#0	8.8	Pass
	3 MHz	LCH	QPSK	RB1#0	8.9	Pass
				RB15#0	8.10	Pass
			16-QAM	RB1#0	8.11	Pass
				RB15#0	8.12	Pass
		HCH	QPSK	RB1#14	8.13	Pass
				RB15#0	8.14	Pass
			16-QAM	RB1#14	8.15	Pass
				RB15#0	8.16	Pass
	5 MHz	LCH	QPSK	RB1#0	8.17	Pass
				RB25#0	8.18	Pass
			16-QAM	RB1#0	8.19	Pass
				RB25#0	8.20	Pass
		HCH	QPSK	RB1#24	8.21	Pass
				RB25#0	8.22	Pass
			16-QAM	RB1#24	8.23	Pass
				RB25#0	8.24	Pass
	10 MHz	LCH	QPSK	RB1#0	8.25	Pass
				RB50#0	8.26	Pass
			16-QAM	RB1#0	8.27	Pass
				RB50#0	8.28	Pass
		HCH	QPSK	RB1#49	8.29	Pass
				RB50#0	8.30	Pass
			16-QAM	RB1#49	8.31	Pass
				RB50#0	8.32	Pass
	15 MHz	LCH	QPSK	RB1#0	8.33	Pass
				RB75#0	8.34	Pass
			16-QAM	RB1#0	8.35	Pass
				RB75#0	8.36	Pass
		HCH	QPSK	RB1#74	8.37	Pass
				RB75#0	8.38	Pass
			16-QAM	RB1#74	8.39	Pass
RB75#0				8.39	Pass	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
				RB75#0	8.40	Pass
	20 MHz	LCH	QPSK	RB1#0	8.41	Pass
RB100#0				8.42	Pass	
RB1#0			8.43	Pass		
RB100#0			8.44	Pass		
		HCH	QPSK	RB1#99	8.45	Pass
RB100#0				8.46	Pass	
RB1#99			8.47	Pass		
RB100#0			8.48	Pass		

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	9.1	Pass
				RB6#0	9.2	Pass
			16-QAM	RB1#0	9.3	Pass
				RB6#0	9.4	Pass
		HCH	QPSK	RB1#5	9.5	Pass
				RB6#0	9.6	Pass
			16-QAM	RB1#5	9.7	Pass
				RB6#0	9.8	Pass
	3 MHz	LCH	QPSK	RB1#0	9.9	Pass
				RB15#0	9.10	Pass
			16-QAM	RB1#0	9.11	Pass
				RB15#0	9.12	Pass
		HCH	QPSK	RB1#14	9.13	Pass
				RB15#0	9.14	Pass
			16-QAM	RB1#14	9.15	Pass
				RB15#0	9.16	Pass
	5 MHz	LCH	QPSK	RB1#0	9.17	Pass
				RB25#0	9.18	Pass
			16-QAM	RB1#0	9.19	Pass
				RB25#0	9.20	Pass
		HCH	QPSK	RB1#24	9.21	Pass
				RB25#0	9.22	Pass
			16-QAM	RB1#24	9.23	Pass
				RB25#0	9.24	Pass
	10 MHz	LCH	QPSK	RB1#0	9.25	Pass
				RB50#0	9.26	Pass
			16-QAM	RB1#0	9.27	Pass
				RB50#0	9.28	Pass
		HCH	QPSK	RB1#49	9.29	Pass
				RB50#0	9.30	Pass
			16-QAM	RB1#49	9.31	Pass
				RB50#0	9.32	Pass
	15 MHz	LCH	QPSK	RB1#0	9.33	Pass
				RB75#0	9.34	Pass
			16-QAM	RB1#0	9.35	Pass
				RB75#0	9.36	Pass
		HCH	QPSK	RB1#74	9.37	Pass
				RB75#0	9.38	Pass
			16-QAM	RB1#74	9.39	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
				RB75#0	9.40	Pass
	20 MHz	LCH	QPSK	RB1#0	9.41	Pass
				RB100#0	9.42	Pass
			16-QAM	RB1#0	9.43	Pass
				RB100#0	9.44	Pass
		HCH	QPSK	RB1#99	9.45	Pass
				RB100#0	9.46	Pass
			16-QAM	RB1#99	9.47	Pass
				RB100#0	9.48	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
				RB6#0	10.2	Pass
			16-QAM	RB1#0	10.3	Pass
				RB6#0	10.4	Pass
		HCH	QPSK	RB1#5	10.5	Pass
				RB6#0	10.6	Pass
			16-QAM	RB1#5	10.7	Pass
				RB6#0	10.8	Pass
	3 MHz	LCH	QPSK	RB1#0	10.9	Pass
				RB15#0	10.10	Pass
			16-QAM	RB1#0	10.11	Pass
				RB15#0	10.12	Pass
		HCH	QPSK	RB1#14	10.13	Pass
				RB15#0	10.14	Pass
			16-QAM	RB1#14	10.15	Pass
				RB15#0	10.16	Pass
	5 MHz	LCH	QPSK	RB1#0	10.17	Pass
				RB25#0	10.18	Pass
			16-QAM	RB1#0	10.19	Pass
				RB25#0	10.20	Pass
		HCH	QPSK	RB1#24	10.21	Pass
				RB25#0	10.22	Pass
			16-QAM	RB1#24	10.23	Pass
				RB25#0	10.24	Pass
	10 MHz	LCH	QPSK	RB1#0	10.25	Pass
				RB50#0	10.26	Pass
			16-QAM	RB1#0	10.27	Pass
				RB50#0	10.28	Pass
		HCH	QPSK	RB1#49	10.29	Pass
				RB50#0	10.30	Pass
			16-QAM	RB1#49	10.31	Pass
				RB50#0	10.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	11.1	Pass
				RB25#0	11.2	Pass
			16-QAM	RB1#0	11.3	Pass
				RB25#0	11.4	Pass
		HCH	QPSK	RB1#24	11.5	Pass
				RB25#0	11.6	Pass
			16-QAM	RB1#24	11.7	Pass
				RB25#0	11.8	Pass
	10 MHz	LCH	QPSK	RB1#0	11.9	Pass
				RB50#0	11.10	Pass
			16-QAM	RB1#0	11.11	Pass
				RB50#0	11.12	Pass
		HCH	QPSK	RB1#49	11.13	Pass
				RB50#0	11.14	Pass
			16-QAM	RB1#49	11.15	Pass
				RB50#0	11.16	Pass
	15 MHz	LCH	QPSK	RB1#0	11.17	Pass
				RB75#0	11.18	Pass
			16-QAM	RB1#0	11.19	Pass
				RB75#0	11.20	Pass
		HCH	QPSK	RB1#74	11.21	Pass
				RB75#0	11.22	Pass
			16-QAM	RB1#74	11.23	Pass
				RB75#0	11.24	Pass
	20 MHz	LCH	QPSK	RB1#0	11.25	Pass
				RB100#0	11.26	Pass
			16-QAM	RB1#0	11.27	Pass
				RB100#0	11.28	Pass
		HCH	QPSK	RB1#99	11.29	Pass
				RB100#0	11.30	Pass
			16-QAM	RB1#99	11.31	Pass
				RB100#0	11.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 66	1.4 MHz	LCH	QPSK	RB1#0	12.1	Pass
				RB6#0	12.2	Pass
			16-QAM	RB1#0	12.3	Pass
				RB6#0	12.4	Pass
		HCH	QPSK	RB1#5	12.5	Pass
				RB6#0	12.6	Pass
			16-QAM	RB1#5	12.7	Pass
				RB6#0	12.8	Pass
	3 MHz	LCH	QPSK	RB1#0	12.9	Pass
				RB15#0	12.10	Pass
			16-QAM	RB1#0	12.11	Pass
				RB15#0	12.12	Pass
		HCH	QPSK	RB1#14	12.13	Pass
				RB15#0	12.14	Pass
			16-QAM	RB1#14	12.15	Pass
				RB15#0	12.16	Pass
	5 MHz	LCH	QPSK	RB1#0	12.17	Pass
				RB25#0	12.18	Pass
			16-QAM	RB1#0	12.19	Pass
				RB25#0	12.20	Pass
		HCH	QPSK	RB1#24	12.21	Pass
				RB25#0	12.22	Pass
			16-QAM	RB1#24	12.23	Pass
				RB25#0	12.24	Pass
	10 MHz	LCH	QPSK	RB1#0	12.25	Pass
				RB50#0	12.26	Pass
			16-QAM	RB1#0	12.27	Pass
				RB50#0	12.28	Pass
		HCH	QPSK	RB1#49	12.29	Pass
				RB50#0	12.30	Pass
			16-QAM	RB1#49	12.31	Pass
				RB50#0	12.32	Pass
15 MHz	LCH	QPSK	RB1#0	12.33	Pass	
			RB75#0	12.34	Pass	
		16-QAM	RB1#0	12.35	Pass	
			RB75#0	12.36	Pass	
	HCH	QPSK	RB1#74	12.37	Pass	
			RB75#0	12.38	Pass	
		16-QAM	RB1#74	12.39	Pass	
			RB75#0	12.40	Pass	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
	20 MHz	LCH	QPSK	RB1#0	12.41	Pass
				RB100#0	12.42	Pass
			16-QAM	RB1#0	12.43	Pass
				RB100#0	12.44	Pass
		HCH	QPSK	RB1#99	12.45	Pass
				RB100#0	12.46	Pass
			16-QAM	RB1#99	12.47	Pass
				RB100#0	12.48	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	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 <sup>Note1</sup>	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

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_7C</b>							
20MHz+10MHz							
Low	QPSK	1	0	1	0	15.1	Pass
		1	0	1	49	15.2	Pass
		100	0	50	0	15.3	Pass
	16-QAM	1	0	1	0	15.4	Pass
		1	0	1	49	15.5	Pass
		100	0	50	0	15.6	Pass
High	QPSK	1	0	1	49	15.7	Pass
		1	99	1	49	15.8	Pass
		100	0	50	0	15.9	Pass
	16-QAM	1	0	1	49	15.10	Pass
		1	99	1	49	15.11	Pass
		100	0	50	0	15.12	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	0	15.13	Pass
		1	0	1	99	15.14	Pass
		100	0	100	0	15.15	Pass
	16-QAM	1	0	1	0	15.16	Pass
		1	0	1	99	15.17	Pass
		100	0	100	0	15.18	Pass
High	QPSK	1	0	1	99	15.19	Pass
		1	99	1	99	15.20	Pass
		100	0	100	0	15.21	Pass
	16-QAM	1	0	1	99	15.22	Pass
		1	99	1	99	15.23	Pass
		100	0	100	0	15.24	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_38C</b>							
15MHz+15MHz							
Low	QPSK	1	0	1	0	16.1	Pass
		1	0	1	74	16.2	Pass
		75	0	75	0	16.3	Pass
	16-QAM	1	0	1	0	16.4	Pass
		1	0	1	74	16.5	Pass
		75	0	75	0	16.6	Pass
High	QPSK	1	0	1	74	16.7	Pass
		1	74	1	74	16.8	Pass
		75	0	75	0	16.9	Pass
	16-QAM	1	0	1	74	16.10	Pass
		1	74	1	74	16.11	Pass
		75	0	75	0	16.12	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	0	16.13	Pass
		1	0	1	99	16.14	Pass
		100	0	100	0	16.15	Pass
	16-QAM	1	0	1	0	16.16	Pass
		1	0	1	99	16.17	Pass
		100	0	100	0	16.18	Pass
High	QPSK	1	0	1	99	16.19	Pass
		1	99	1	99	16.20	Pass
		100	0	100	0	16.21	Pass
	16-QAM	1	0	1	99	16.22	Pass
		1	99	1	99	16.23	Pass
		100	0	100	0	16.24	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_41C</b>							
20MHz+5MHz							
Low	QPSK	1	0	1	0	17.1	Pass
		1	0	1	24	17.2	Pass
		100	0	25	0	17.3	Pass
	16-QAM	1	0	1	0	17.4	Pass
		1	0	1	24	17.5	Pass
		100	0	25	0	17.6	Pass
High	QPSK	1	0	1	24	17.7	Pass
		1	99	1	24	17.8	Pass
		100	0	25	0	17.9	Pass
	16-QAM	1	0	1	24	17.10	Pass
		1	99	1	24	17.11	Pass
		100	0	25	0	17.12	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	0	17.13	Pass
		1	0	1	99	17.14	Pass
		100	0	100	0	17.15	Pass
	16-QAM	1	0	1	0	17.16	Pass
		1	0	1	99	17.17	Pass
		100	0	100	0	17.18	Pass
High	QPSK	1	0	1	99	17.19	Pass
		1	99	1	99	17.20	Pass
		100	0	100	0	17.21	Pass
	16-QAM	1	0	1	99	17.22	Pass
		1	99	1	99	17.23	Pass
		100	0	100	0	17.24	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-SZ2270591-501 Data Part 5.pdf".

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	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
WCDMA Band 2	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
WCDMA Band 4	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 5	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass

### LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	8.1	Pass
	3 MHz	MCH	QPSK	RB1#0	8.2	Pass
	5 MHz	MCH	QPSK	RB1#0	8.3	Pass
	10 MHz	MCH	QPSK	RB1#0	8.4	Pass
	15 MHz	MCH	QPSK	RB1#0	8.5	Pass
	20 MHz	MCH	QPSK	RB1#0	8.6	Pass
Band 4	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
	15 MHz	MCH	QPSK	RB1#0	9.5	Pass
	20 MHz	MCH	QPSK	RB1#0	9.6	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	10.1	Pass
	3 MHz	MCH	QPSK	RB1#0	10.2	Pass
	5 MHz	MCH	QPSK	RB1#0	10.3	Pass
	10 MHz	MCH	QPSK	RB1#0	10.4	Pass
Band 7	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 66	1.4 MHz	MCH	QPSK	RB1#0	12.1	Pass
	3 MHz	MCH	QPSK	RB1#0	12.2	Pass
	5 MHz	MCH	QPSK	RB1#0	12.3	Pass
	10 MHz	MCH	QPSK	RB1#0	12.4	Pass
	15 MHz	MCH	QPSK	RB1#0	12.5	Pass
	20 MHz	MCH	QPSK	RB1#0	12.6	Pass
Band 38	5 MHz	MCH	QPSK	RB1#0	13.1	Pass
	10 MHz	MCH	QPSK	RB1#0	13.2	Pass
	15 MHz	MCH	QPSK	RB1#0	13.3	Pass
	20 MHz	MCH	QPSK	RB1#0	13.4	Pass
Band 41	5 MHz	MCH	QPSK	RB1#0	14.1	Pass
	10 MHz	MCH	QPSK	RB1#0	14.2	Pass
	15 MHz	MCH	QPSK	RB1#0	14.3	Pass
	20 MHz	MCH	QPSK	RB1#0	14.4	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_7C</b>							
20MHz+10MHz							
Low	QPSK	1	0	1	49	15.1	Pass
Mid	QPSK	1	0	1	49	15.2	Pass
High	QPSK	1	0	1	49	15.3	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	99	15.4	Pass
Mid	QPSK	1	0	1	99	15.5	Pass
High	QPSK	1	0	1	99	15.6	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_38C</b>							
15MHz+15MHz							
Low	QPSK	1	0	1	74	16.1	Pass
Mid	QPSK	1	0	1	74	16.2	Pass
High	QPSK	1	0	1	74	16.3	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	99	16.4	Pass
Mid	QPSK	1	0	1	99	16.5	Pass
High	QPSK	1	0	1	99	16.6	Pass

Test Channel	Modulation	PCC RB		SCC RB		Refer to Plot <sup>Note2</sup>	Verdict
		Size	Offset	Size	Offset		
<b>CA_41C</b>							
20MHz+5MHz							
Low	QPSK	1	0	1	24	17.1	Pass
Mid	QPSK	1	0	1	24	17.2	Pass
High	QPSK	1	0	1	24	17.3	Pass
20MHz+20MHz							
Low	QPSK	1	0	1	99	17.4	Pass
Mid	QPSK	1	0	1	99	17.5	Pass
High	QPSK	1	0	1	99	17.6	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document “BL-SZ2270591-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document “BL-SZ2270591-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document “BL-SZ2270591-AI.PDF”.

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