

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
X9 FDD-LTE Smartphone

ISSUED TO
TP-LINK Technologies Co., Ltd.

Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park,
Shennan Road, Nanshan District, Shenzhen City, Guangdong Province,
P.R. China



Tested by: Heng Aiping
Heng Aiping
(Engineer)

Date: Jun. 15, 2018

Approved by: Liao Jianming
Liao Jianming
(Technical Director)

Date: Jun. 15, 2018

Report No.: BL-SZ1840111-501

EUT Name: X9 FDD-LTE Smartphone

Model Name: TP913A(refer to section 2.4)

Brand Name: neffos

Test Standard: 47 CFR Part 2 (10-1-17 Edition)
47 CFR Part 22 (10-1-17 Edition)
47 CFR Part 24 (10-1-17 Edition)
47 CFR Part 27 (10-1-17 Edition)

FCC ID: TE7X9V1

Test Conclusion: Pass

Test Date: Apr. 17, 2018 ~ Jun. 15, 2018

Date of Issue: Jun. 15, 2018

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 05, 2018</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 15, 2018</u>	<u>Revised the EIRP(ERP) for EGPRS configuration in Annex A.1.2</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as an accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025. The accreditation certificate number is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20 °C to 35 °C
Ambient Relative Humidity	30 % to 60 %
Ambient Pressure	98 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.6.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TP-LINK Technologies Co., Ltd.
Address	Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

2.2 Manufacturer Information

Manufacturer	TP-LINK Technologies Co., Ltd.
Address	Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	X9 FDD-LTE Smartphone
Model Name Under Test	TP913A
Series Model Name	TP913A, TP913AXYZZ
Description of Model name differentiation	X = 5 or 6(5 indicates the color is Black,6 indicates the color is Silvery) Y = 6, indicates the memory is 3G RAM + 32G Flash Z = 'A' to 'Z', ZZ indicates different regions or customers
Hardware Version	1.0
Software Version	TP913Rxxxx
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	neffos
	Model No.	NBL-35B3000
	Serial No.	N/A
	Capacity	3000 mAh
	Rated Voltage	3.85 V
	Limit Charge Voltage	4.4 V
Ancillary Equipment 2	Adapter	
	Brand Name	neffos
	Model No.	A8A-050200U-US1
	Serial No.	N/A
	Rated Input	100-240 V~, 0.35 A, 50/60 Hz
	Rated Output	5 V= 2 A
Ancillary Equipment 3	USB Cable	
	Model No.	N/A
	Length (Approx.)	1 m
Ancillary Equipment 4	Earphone	
	Model No.	LYM165-093-001
	Length (Approx.)	1.2 m

2.6 Technical Information

All Network and Wireless connectivity for EUT	2G Network GSM/GPRS/EGPRS 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7 Bluetooth 4.1 (BR+EDR+BLE) WIFI 802.11a,802.11b, 802.11g and 802.11n (HT20/40) GPS, GLONASS, FM
About the Product	The equipment is X9 FDD-LTE Smartphone, intended for used with information technology equipment.
Note 1: The EUT is X9 FDD-LTE Smartphone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

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

Operating Bands	GSM/GPRS/EGPRS 850/ 1900 MHz WCDMA/HSDPA/HSUPA Band 2/ 4/ 5 FDD LTE Band 2/ 4/ 5/ 7	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	HSDPA	QPSK
	/HSUPA	16QAM
	LTE	QPSK 16QAM
TX Frequency Range	GSM/GPRS/EGPRS 850: 824 MHz ~ 849 MHz GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz WCDMA/HSDPA/HSUPA Band 2: 1850 MHz ~ 1910 MHz WCDMA/HSDPA/HSUPA Band 4: 1710 MHz ~ 1755 MHz WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz FDD LTE Band 2: 1850 MHz ~ 1910 MHz FDD LTE Band 4: 1710 MHz ~ 1755 MHz FDD LTE Band 5: 824 MHz ~ 849 MHz FDD LTE Band 7: 2500 MHz ~ 2570 MHz	
Rx Frequency Range	GSM/GPRS/EGPRS 850: 869 MHz ~ 894 MHz GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz WCDMA/HSDPA/HSUPA Band 2: 1930 MHz ~ 1990 MHz WCDMA/HSDPA/HSUPA Band 4: 2110 MHz ~ 2155 MHz WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz FDD LTE Band 2: 1930 MHz ~ 1990 MHz FDD LTE Band 4: 2110 MHz ~ 2155 MHz FDD LTE Band 5: 869 MHz ~ 894 MHz FDD LTE Band 7: 2620 MHz ~ 2690 MHz	

Power Class	GSM/GPRS 850: 4 GSM/GPRS 1900: 1 EGPRS 850/1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 4: 3 WCDMA/HSDPA/HSUPA Band 5: 3 FDD LTE Band 2: 3 FDD LTE Band 4: 3 FDD LTE Band 5: 3 FDD LTE Band 7: 3
Multislot Class	GPRS/EGPRS: 12
Antenna Type	PIFA Antenna

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-17 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H (10-1-17 Edition)	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E (10-1-17 Edition)	Broadband PCS
4	47 CFR Part 27 (10-1-17 Edition)	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 v03r01	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:

Test Voltage of the EUT	NV (Normal Voltage)	3.85 V
	LV (Low Voltage)	3.4 V
	HV (High Voltage)	4.4 V
Test Temperature of the EUT	NT (Normal Temperature)	+25 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+50 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Conducted Test System						
Test Software 1	R&S	CMUgo	N/A	V2.0.1	N/A	N/A
Test Software 2	R&S	CMWRun	N/A	V1.8.9	N/A	N/A
Test Software 3	BALUN	BL410R	N/A	V2.1.1.366	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2018.03.16	2019.03.15
Wireless Communications Test Set	R&S	CMW 500	102318	V3.2.71	2017.06.12	2018.06.11
Wireless Communications Test Set	R&S	CMW 500	127801	V3.5.137	2017.11.02	2018.11.01
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2017.06.12	2018.06.11
Spectrum Analyzer	AGILENT	E4440A	MY45304434	A.11.21	2017.11.02	2018.11.01
Spectrum Analyzer	AGILENT	E4440A	MY46181663	A.11.21	2017.11.02	2018.11.01
Temperature Chamber	AHK	SP20	1412	N/A	2017.07.20	2018.07.19
DC Power Supply	ITECH	IT6863A	60001401068 7210020	N/A	2017.06.12	2018.06.11
Power Sensor	AGILENT	E9304A H18	MY41497164	N/A	2017.11.02	2018.11.01
Power Splitter	KMW	DCPD-LDC	1305003215	N/A	N/A	N/A
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	N/A	N/A	N/A
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	N/A	N/A	N/A
Radiated Test System (10m)						
Test Software	BALUN	BL410_E	N/A	V16.921	N/A	N/A

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	N/A	2017.11.07	2019.11.08
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	N/A	2017.07.22	2019.07.21
Test Antenna-Biconical	SCHWARZBECK	VHBB9124	9124-594	N/A	2015.08.13	2018.08.12
Test Antenna-LPDA	SCHWARZBECK	VUSLP9111B	9111B-091	N/A	2015.08.13	2018.08.12
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1600	N/A	2016.07.12	2018.07.11
Test Antenna-Horn(18-40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2017.01.06	2019.01.05
Anechoic Chamber	EMC Electronic Co., Ltd	20.10m*11.60m*7.35m	N/A	N/A	2016.08.09	2018.08.08
EMI Receiver	AGILENT	E4440A	MY44020181	A.11.21	2018.03.16	2019.03.15
Wireless Communications Test Set	R&S	CMW 500	127794	V3.5.137	2017.11.02	2018.11.01

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
E.R.P/E.I.R.P	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
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
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

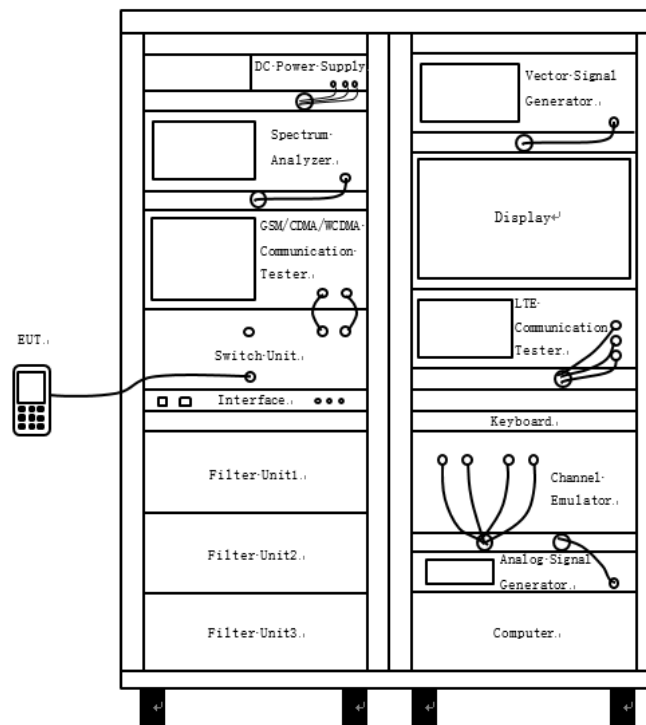
LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
E.R.P/E.I.R.P														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio														
2	--	--	--	--	--	v	v	v	v	--	v	v	v	v
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
Occupied Bandwidth														
2	v	v	v	v	v	v	v	v	--	--	v	v	v	v
4	v	v	v	v	v	v	v	v	--	--	v	v	v	v
5	v	v	v	v	n	n	v	v	--	--	v	v	v	v
7	n	n	v	v	v	v	v	v	--	--	v	v	v	v
Frequency Stability														
2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
2	v	v	v	v	v	v	v	v	v	--	--	v	v	v
4	v	v	v	v	v	v	v	v	v	--	--	v	v	v
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
2	v	v	v	v	v	v	v	v	v	--	v	v	--	v
4	v	v	v	v	v	v	v	v	v	--	v	v	--	v
5	v	v	v	v	n	n	v	v	v	--	v	v	--	v
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
2	v	v	v	v	v	v	v	--	v	--	--	--	v	--
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
Note 1: The mark "v" means that this configuration is chosen for testing.														
Note 2: The mark "n" means that this bandwidth is not supported.														

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Middle Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		15	21375	2562.5
		20	21350	2560

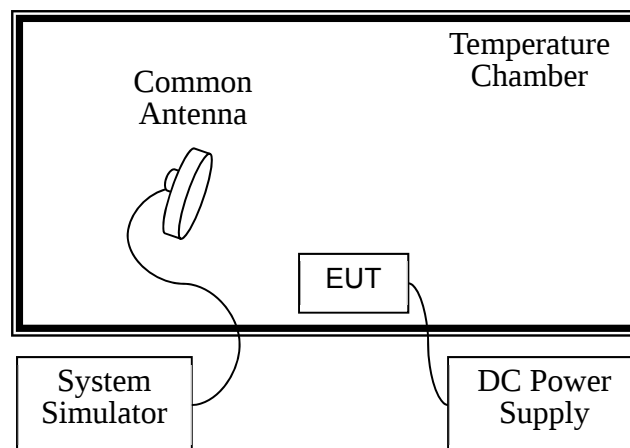
4.4 Test Setup

4.4.1 For Antenna Port Test



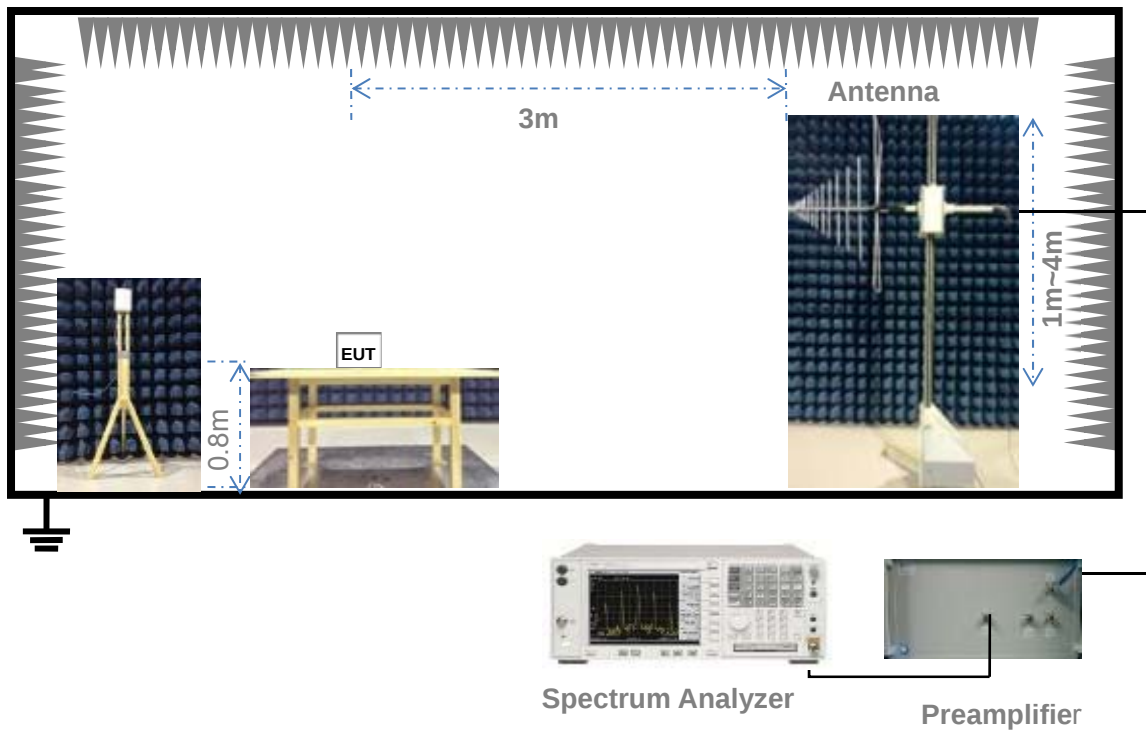
(Diagram 1)

4.4.2 For Frequency Stability Test



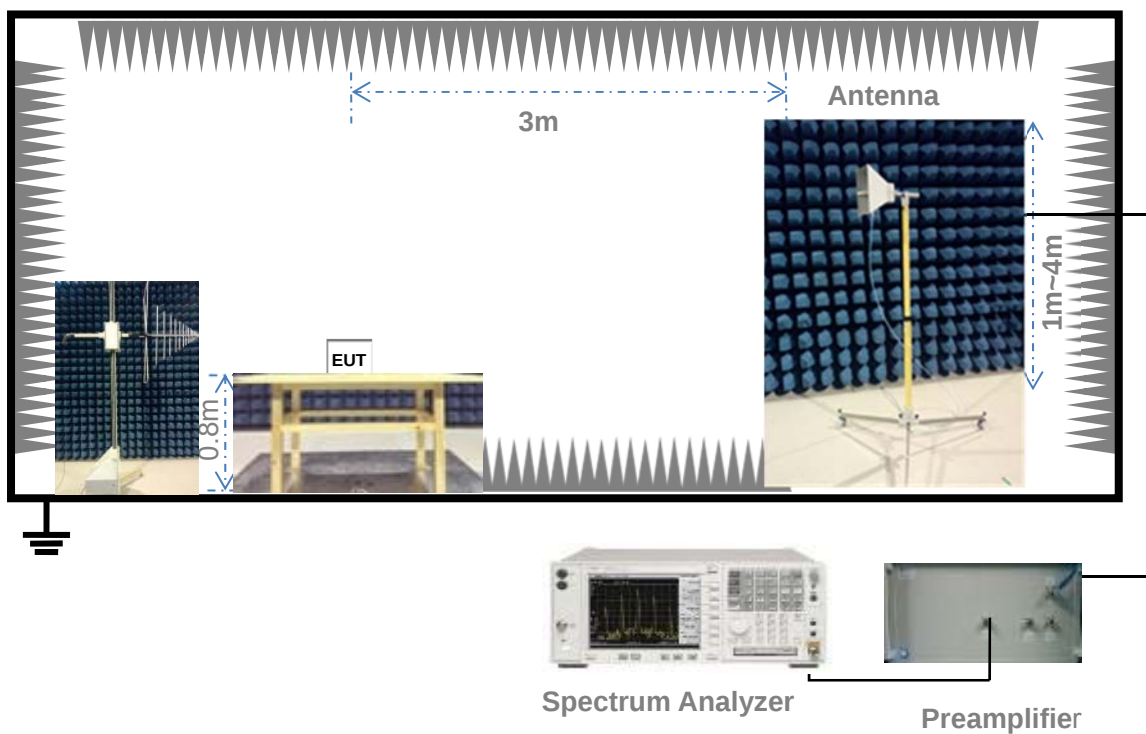
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

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

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

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

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

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

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

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

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

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

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

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

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

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

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

where:

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

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

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

dBd (ERP)=dBi (EIRP) -2.15 dB

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

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

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

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

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

where:

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

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

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

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

For example:

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

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

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

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

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

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

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

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

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

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one 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(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 below 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

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

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

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

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.5.2 Test Setup

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

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(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 below 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

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

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

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

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40 + 10 \log P$ dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.

4. The center of the spectrum analyzer was set to block edge frequency.

5. Band edge are tested with $1\% \times \text{cBW (RBW)}$, and sweep point number referred to following formula.

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

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

6. Record the frequencies and levels of spurious emissions.

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(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 below 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

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

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

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

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of

measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

- $40+10\log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.7.2 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 Output Power

A.1.1 Transmitter Conducted Output Power

GSM Mode Test Data

Test Band	Test Channel	PCL	Conducted Output Peak Power (dBm)	Conducted Output Peak Power (W)
GSM 850	LCH	5	31.09	1.29
	MCH	5	31.19	1.32
	HCH	5	31.11	1.29
GPRS 850	LCH	5	31.45	1.40
	MCH	5	31.55	1.43
	HCH	5	31.52	1.42
EGPRS 850	LCH	8	27.97	0.63
	MCH	8	27.94	0.62
	HCH	8	28.06	0.64

Test Band	Test Channel	PCL	Conducted Output Peak Power (dBm)	Conducted Output Peak Power (W)
GSM 1900	LCH	0	28.44	0.70
	MCH	0	28.46	0.70
	HCH	0	28.51	0.71
GPRS 1900	LCH	0	28.91	0.78
	MCH	0	28.96	0.79
	HCH	0	29.05	0.80
EGPRS 1900	LCH	2	27.64	0.58
	MCH	2	27.76	0.60
	HCH	2	27.79	0.60

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

Note 2: 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							
		Slot 1 (dBm)	Slot 1 (W)	Slot 2 (dBm)	Slot 2 (W)	Slot 3 (dBm)	Slot 3 (W)	Slot 4 (dBm)	Slot 4 (W)
GPRS 850	LCH	31.45	1.40	30.86	1.22	29.3	0.85	28.19	0.66
	MCH	31.55	1.43	30.96	1.25	29.39	0.87	28.34	0.68
	HCH	31.52	1.42	30.93	1.24	29.41	0.87	28.35	0.68
GPRS 1900	LCH	28.91	0.78	28.18	0.66	26.5	0.45	25.43	0.35
	MCH	28.96	0.79	28.23	0.67	26.51	0.45	25.43	0.35
	HCH	29.05	0.80	28.34	0.68	26.72	0.47	25.68	0.37

EGPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		Slot 1 (dBm)	Slot 1 (W)	Slot 2 (dBm)	Slot 2 (W)	Slot 3 (dBm)	Slot 3 (W)	Slot 4 (dBm)	Slot 4 (W)
EGPRS 850	LCH	27.97	0.63	26.91	0.49	25.11	0.32	23.94	0.25
	MCH	27.94	0.62	26.96	0.50	24.96	0.31	23.83	0.24
	HCH	28.06	0.64	27.04	0.51	25.06	0.32	23.84	0.24
EGPRS 1900	LCH	27.64	0.58	26.91	0.49	25.21	0.33	24.41	0.28
	MCH	27.76	0.60	26.98	0.50	25.36	0.34	24.59	0.29
	HCH	27.79	0.60	26.96	0.50	25.38	0.35	24.6	0.29

WCDMA Mode Test Data

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 2	LCH	22.09	0.16
	MCH	22.09	0.16
	HCH	22.01	0.16
HSDPA Band 2	LCH	21.14	0.13
	MCH	21.17	0.13
	HCH	21.10	0.13
HSUPA Band 2	LCH	20.11	0.10
	MCH	20.08	0.10
	HCH	20.50	0.11

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 4	LCH	22.01	0.16
	MCH	22.04	0.16
	HCH	22.06	0.16
HSDPA Band 4	LCH	21.02	0.13
	MCH	21.14	0.13
	HCH	21.14	0.13
HSUPA Band 4	LCH	20.08	0.10
	MCH	20.14	0.10
	HCH	20.12	0.10

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 5	LCH	22.90	0.19
	MCH	22.91	0.20
	HCH	22.91	0.20
HSDPA Band 5	LCH	21.94	0.16
	MCH	22.00	0.16
	HCH	21.93	0.16
HSUPA Band 5	LCH	20.98	0.13
	MCH	20.95	0.12
	HCH	20.93	0.12

Note 1: For the HSDPA and HSUPA mode, all subtests were tested and just the worst data were recorded in this table.

HSDPA Conducted Output Power

Band	Channel	Conducted Output Average Power							
		Subtest1		Subtest2		Subtest3		Subtest4	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSDPA Band 2	LCH	21.09	0.13	21.14	0.13	20.68	0.12	20.64	0.12
	MCH	21.17	0.13	21.17	0.13	20.70	0.12	20.67	0.12
	HCH	21.05	0.13	21.10	0.13	20.55	0.11	20.52	0.11
HSDPA Band 4	LCH	20.98	0.13	21.02	0.13	20.54	0.11	20.50	0.11
	MCH	21.14	0.13	21.04	0.13	20.59	0.11	20.57	0.11
	HCH	21.14	0.13	21.07	0.13	20.60	0.11	20.58	0.11
HSDPA Band 5	LCH	21.92	0.16	21.94	0.16	21.44	0.14	21.41	0.14
	MCH	22.00	0.16	21.91	0.16	21.43	0.14	21.47	0.14
	HCH	21.90	0.15	21.93	0.16	21.48	0.14	21.46	0.14

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	19.08	0.08	19.08	0.08	20.11	0.10	18.60	0.07	20.06	0.10
	MCH	19.08	0.08	19.12	0.08	20.08	0.10	18.63	0.07	20.00	0.10
	HCH	19.04	0.08	19.03	0.08	20.50	0.11	18.56	0.07	20.02	0.10
HSUPA Band 4	LCH	19.10	0.08	19.03	0.08	20.08	0.10	18.57	0.07	19.99	0.10
	MCH	19.13	0.08	19.15	0.08	20.14	0.10	18.66	0.07	20.06	0.10
	HCH	19.10	0.08	19.21	0.08	20.12	0.10	18.69	0.07	20.04	0.10
HSUPA Band 5	LCH	19.95	0.10	19.95	0.10	20.98	0.13	19.57	0.09	20.88	0.12
	MCH	20.01	0.10	19.92	0.10	20.94	0.12	19.44	0.09	20.95	0.12
	HCH	19.95	0.10	19.92	0.10	20.93	0.12	19.47	0.09	20.91	0.12

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
1.4 MHz	LCH	QPSK	RB1#0	22.17	0.16
			RB1#3	22.14	0.16
			RB1#5	22.18	0.17
			RB3#0	22.13	0.16
			RB3#2	22.17	0.16
			RB3#3	22.19	0.17
			RB6#0	21.17	0.13
		16-QAM	RB1#0	21.19	0.13
			RB1#3	21.13	0.13
			RB1#5	21.23	0.13
			RB3#0	21.26	0.13
			RB3#2	21.23	0.13
			RB3#3	21.21	0.13
			RB6#0	20.22	0.11
	MCH	QPSK	RB1#0	22.26	0.17
			RB1#3	22.27	0.17
			RB1#5	22.27	0.17
			RB3#0	22.30	0.17
			RB3#2	22.33	0.17
			RB3#3	22.35	0.17
			RB6#0	21.20	0.13
		16-QAM	RB1#0	21.60	0.14
			RB1#3	21.52	0.14
			RB1#5	21.61	0.14
			RB3#0	21.55	0.14
			RB3#2	21.51	0.14
			RB3#3	21.55	0.14
			RB6#0	20.11	0.10
	HCH	QPSK	RB1#0	21.68	0.15
			RB1#3	21.71	0.15
			RB1#5	21.71	0.15
			RB3#0	21.80	0.15
			RB3#2	21.73	0.15
			RB3#3	21.68	0.15
			RB6#0	20.67	0.12
		16-QAM	RB1#0	20.69	0.12
			RB1#3	20.61	0.12
			RB1#5	20.70	0.12

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
3 MHz			RB3#0	20.91	0.12
			RB3#2	20.94	0.12
			RB3#3	20.97	0.13
			RB6#0	19.75	0.09
	LCH	QPSK	RB1#0	22.19	0.17
			RB1#7	22.12	0.16
			RB1#14	22.19	0.17
			RB8#0	21.30	0.13
			RB8#4	21.34	0.14
			RB8#7	21.30	0.13
			RB15#0	21.25	0.13
		16-QAM	RB1#0	20.98	0.13
			RB1#7	20.92	0.12
			RB1#14	20.94	0.12
			RB8#0	20.34	0.11
			RB8#4	20.39	0.11
			RB8#7	20.38	0.11
			RB15#0	20.26	0.11
	MCH	QPSK	RB1#0	22.25	0.17
			RB1#7	22.24	0.17
			RB1#14	22.29	0.17
			RB8#0	21.35	0.14
			RB8#4	21.35	0.14
			RB8#7	21.40	0.14
			RB15#0	21.30	0.13
		16-QAM	RB1#0	21.55	0.14
			RB1#7	21.48	0.14
			RB1#14	21.54	0.14
			RB8#0	20.41	0.11
			RB8#4	20.40	0.11
			RB8#7	20.42	0.11
			RB15#0	20.34	0.11
	HCH	QPSK	RB1#0	21.80	0.15
			RB1#7	21.71	0.15
			RB1#14	21.78	0.15
			RB8#0	20.83	0.12
			RB8#4	20.86	0.12
			RB8#7	20.85	0.12
			RB15#0	20.82	0.12

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
		16-QAM	RB1#0	20.69	0.12
			RB1#7	20.57	0.11
			RB1#14	20.63	0.12
			RB8#0	19.82	0.10
			RB8#4	19.85	0.10
			RB8#7	19.85	0.10
			RB15#0	19.74	0.09
5 MHz	LCH	QPSK	RB1#0	22.17	0.16
			RB1#13	22.12	0.16
			RB1#24	22.14	0.16
			RB12#0	21.23	0.13
			RB12#6	21.19	0.13
			RB12#13	21.16	0.13
			RB25#0	21.13	0.13
		16-QAM	RB1#0	21.25	0.13
			RB1#13	21.19	0.13
			RB1#24	21.23	0.13
			RB12#0	20.26	0.11
			RB12#6	20.27	0.11
			RB12#13	20.25	0.11
			RB25#0	20.19	0.10
	MCH	QPSK	RB1#0	22.28	0.17
			RB1#13	22.25	0.17
			RB1#24	22.28	0.17
			RB12#0	21.25	0.13
			RB12#6	21.28	0.13
			RB12#13	21.25	0.13
			RB25#0	21.22	0.13
		16-QAM	RB1#0	21.68	0.15
			RB1#13	21.64	0.15
			RB1#24	21.64	0.15
			RB12#0	20.43	0.11
			RB12#6	20.45	0.11
			RB12#13	20.41	0.11
			RB25#0	20.32	0.11
	HCH	QPSK	RB1#0	22.24	0.17
			RB1#13	21.68	0.15
			RB1#24	21.68	0.15
			RB12#0	20.78	0.12

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB12#6	20.79	0.12
			RB12#13	20.70	0.12
			RB25#0	20.72	0.12
		16-QAM	RB1#0	21.20	0.13
			RB1#13	20.69	0.12
			RB1#24	20.71	0.12
			RB12#0	19.81	0.10
			RB12#6	19.79	0.10
			RB12#13	19.73	0.09
			RB25#0	19.65	0.09
10 MHz	LCH	QPSK	RB1#0	22.38	0.17
			RB1#25	22.29	0.17
			RB1#49	22.30	0.17
			RB25#0	21.25	0.13
			RB25#13	21.20	0.13
			RB25#25	21.17	0.13
			RB50#0	21.19	0.13
		16-QAM	RB1#0	21.14	0.13
			RB1#25	21.07	0.13
			RB1#49	21.13	0.13
			RB25#0	20.31	0.11
			RB25#13	20.27	0.11
			RB25#25	20.24	0.11
			RB50#0	20.23	0.11
	MCH	QPSK	RB1#0	22.43	0.17
			RB1#25	22.36	0.17
			RB1#49	22.37	0.17
			RB25#0	21.31	0.14
			RB25#13	21.28	0.13
			RB25#25	21.24	0.13
			RB50#0	21.26	0.13
		16-QAM	RB1#0	21.68	0.15
			RB1#25	21.59	0.14
			RB1#49	21.59	0.14
			RB25#0	20.38	0.11
			RB25#13	20.34	0.11
			RB25#25	20.32	0.11
			RB50#0	20.31	0.11
	HCH	QPSK	RB1#0	22.45	0.18

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#25	22.41	0.17
			RB1#49	21.86	0.15
			RB25#0	21.30	0.13
			RB25#13	20.77	0.12
			RB25#25	20.67	0.12
			RB50#0	20.75	0.12
		16-QAM	RB1#0	21.28	0.13
			RB1#25	21.19	0.13
			RB1#49	20.70	0.12
			RB25#0	20.41	0.11
			RB25#13	19.87	0.10
			RB25#25	19.77	0.09
			RB50#0	19.77	0.09
15 MHz	LCH	QPSK	RB1#0	22.46	0.18
			RB1#38	22.27	0.17
			RB1#74	22.36	0.17
			RB36#0	21.42	0.14
			RB36#19	21.35	0.14
			RB36#39	21.36	0.14
			RB75#0	21.40	0.14
		16-QAM	RB1#0	21.20	0.13
			RB1#38	21.09	0.13
			RB1#74	21.20	0.13
			RB36#0	20.38	0.11
			RB36#19	20.33	0.11
			RB36#39	20.35	0.11
			RB75#0	20.38	0.11
	MCH	QPSK	RB1#0	22.52	0.18
			RB1#38	22.39	0.17
			RB1#74	22.42	0.17
			RB36#0	21.43	0.14
			RB36#19	21.42	0.14
			RB36#39	21.43	0.14
			RB75#0	21.45	0.14
		16-QAM	RB1#0	21.79	0.15
			RB1#38	21.62	0.15
			RB1#74	21.63	0.15
			RB36#0	20.47	0.11
			RB36#19	20.44	0.11

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB36#39	20.43	0.11
			RB75#0	20.44	0.11
	HCH	QPSK	RB1#0	22.53	0.18
			RB1#38	22.40	0.17
			RB1#74	21.94	0.16
			RB36#0	21.47	0.14
			RB36#19	20.93	0.12
			RB36#39	20.87	0.12
			RB75#0	20.97	0.13
		16-QAM	RB1#0	21.70	0.15
			RB1#38	21.56	0.14
			RB1#74	21.08	0.13
			RB36#0	20.40	0.11
			RB36#19	19.85	0.10
			RB36#39	19.79	0.10
			RB75#0	19.88	0.10
20 MHz	LCH	QPSK	RB1#0	22.56	0.18
			RB1#50	22.34	0.17
			RB1#99	22.55	0.18
			RB50#0	21.40	0.14
			RB50#25	21.29	0.13
			RB50#50	21.37	0.14
			RB100#0	21.40	0.14
		16-QAM	RB1#0	21.89	0.15
			RB1#50	21.77	0.15
			RB1#99	21.98	0.16
			RB50#0	20.45	0.11
			RB50#25	20.36	0.11
			RB50#50	20.43	0.11
			RB100#0	20.45	0.11
	MCH	QPSK	RB1#0	22.64	0.18
			RB1#50	22.43	0.17
			RB1#99	22.59	0.18
			RB50#0	21.38	0.14
			RB50#25	21.32	0.14
			RB50#50	21.30	0.13
			RB100#0	21.34	0.14
		16-QAM	RB1#0	21.95	0.16
			RB1#50	21.67	0.15

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#99	21.78	0.15
			RB50#0	20.43	0.11
			RB50#25	20.36	0.11
			RB50#50	20.33	0.11
			RB100#0	20.35	0.11
	HCH	QPSK	RB1#0	22.57	0.18
			RB1#50	22.36	0.17
			RB1#99	22.00	0.16
			RB50#0	21.44	0.14
			RB50#25	21.29	0.13
			RB50#50	20.75	0.12
			RB100#0	20.89	0.12
		16-QAM	RB1#0	21.77	0.15
			RB1#50	21.62	0.15
			RB1#99	21.20	0.13
			RB50#0	20.44	0.11
			RB50#25	20.31	0.11
			RB50#50	19.74	0.09
			RB100#0	19.89	0.10

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
1.4 MHz	LCH	QPSK	RB1#0	22.22	0.17
			RB1#3	22.22	0.17
			RB1#5	22.22	0.17
			RB3#0	22.30	0.17
			RB3#2	22.24	0.17
			RB3#3	22.21	0.17
			RB6#0	21.18	0.13
		16-QAM	RB1#0	21.19	0.13
			RB1#3	21.13	0.13
			RB1#5	21.23	0.13
			RB3#0	21.42	0.14
			RB3#2	21.45	0.14
			RB3#3	21.49	0.14
			RB6#0	20.26	0.11
	MCH	QPSK	RB1#0	22.26	0.17
			RB1#3	22.25	0.17
			RB1#5	22.28	0.17
			RB3#0	22.21	0.17
			RB3#2	22.27	0.17
			RB3#3	22.27	0.17
			RB6#0	21.28	0.13
		16-QAM	RB1#0	21.30	0.13
			RB1#3	21.23	0.13
			RB1#5	21.31	0.14
			RB3#0	21.38	0.14
			RB3#2	21.33	0.14
			RB3#3	21.30	0.13
			RB6#0	20.32	0.11
	HCH	QPSK	RB1#0	22.17	0.16
			RB1#3	22.18	0.17
			RB1#5	22.18	0.17
			RB3#0	22.24	0.17
			RB3#2	22.28	0.17
			RB3#3	22.31	0.17
			RB6#0	21.20	0.13
		16-QAM	RB1#0	21.58	0.14
			RB1#3	21.50	0.14
			RB1#5	21.60	0.14
			RB3#0	21.52	0.14

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
3 MHz			RB3#2	21.50	0.14
			RB3#3	21.58	0.14
			RB6#0	20.07	0.10
	LCH	QPSK	RB1#0	22.23	0.17
			RB1#7	22.13	0.16
			RB1#14	22.17	0.16
			RB8#0	21.34	0.14
			RB8#4	21.36	0.14
			RB8#7	21.36	0.14
			RB15#0	21.29	0.13
		16-QAM	RB1#0	21.02	0.13
			RB1#7	20.95	0.12
			RB1#14	21.02	0.13
			RB8#0	20.38	0.11
			RB8#4	20.42	0.11
			RB8#7	20.41	0.11
			RB15#0	20.31	0.11
	MCH	QPSK	RB1#0	22.29	0.17
			RB1#7	22.23	0.17
			RB1#14	22.32	0.17
			RB8#0	21.41	0.14
			RB8#4	21.43	0.14
			RB8#7	21.47	0.14
			RB15#0	21.35	0.14
		16-QAM	RB1#0	21.56	0.14
			RB1#7	21.47	0.14
			RB1#14	21.54	0.14
			RB8#0	20.40	0.11
			RB8#4	20.41	0.11
			RB8#7	20.43	0.11
			RB15#0	20.34	0.11
	HCH	QPSK	RB1#0	22.22	0.17
			RB1#7	22.15	0.16
			RB1#14	22.26	0.17
			RB8#0	21.29	0.13
			RB8#4	21.33	0.14
			RB8#7	21.36	0.14
			RB15#0	21.31	0.14
		16-QAM	RB1#0	21.22	0.13

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB1#7	21.10	0.13
			RB1#14	21.18	0.13
			RB8#0	20.31	0.11
			RB8#4	20.35	0.11
			RB8#7	20.36	0.11
			RB15#0	20.25	0.11
5 MHz	LCH	QPSK	RB1#0	22.17	0.16
			RB1#13	22.12	0.16
			RB1#24	22.12	0.16
			RB12#0	21.23	0.13
			RB12#6	21.24	0.13
			RB12#13	21.19	0.13
			RB25#0	21.17	0.13
		16-QAM	RB1#0	21.27	0.13
			RB1#13	21.25	0.13
			RB1#24	21.28	0.13
			RB12#0	20.27	0.11
			RB12#6	20.30	0.11
			RB12#13	20.26	0.11
			RB25#0	20.20	0.10
	MCH	QPSK	RB1#0	22.28	0.17
			RB1#13	22.26	0.17
			RB1#24	22.28	0.17
			RB12#0	21.25	0.13
			RB12#6	21.30	0.13
			RB12#13	21.27	0.13
			RB25#0	21.22	0.13
		16-QAM	RB1#0	21.67	0.15
			RB1#13	21.63	0.15
			RB1#24	21.65	0.15
			RB12#0	20.37	0.11
			RB12#6	20.40	0.11
			RB12#13	20.37	0.11
			RB25#0	20.28	0.11
	HCH	QPSK	RB1#0	22.17	0.16
			RB1#13	22.15	0.16
			RB1#24	22.18	0.17
			RB12#0	21.28	0.13
			RB12#6	21.28	0.13

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB12#13	21.24	0.13
			RB25#0	21.22	0.13
		16-QAM	RB1#0	21.28	0.13
			RB1#13	21.22	0.13
			RB1#24	21.26	0.13
			RB12#0	20.33	0.11
			RB12#6	20.35	0.11
			RB12#13	20.30	0.11
			RB25#0	20.21	0.10
10 MHz	LCH	QPSK	RB1#0	22.38	0.17
			RB1#25	22.24	0.17
			RB1#49	22.24	0.17
			RB25#0	21.29	0.13
			RB25#13	21.25	0.13
			RB25#25	21.20	0.13
			RB50#0	21.23	0.13
		16-QAM	RB1#0	21.15	0.13
			RB1#25	21.13	0.13
			RB1#49	21.14	0.13
			RB25#0	20.32	0.11
			RB25#13	20.29	0.11
			RB25#25	20.24	0.11
			RB50#0	20.25	0.11
	MCH	QPSK	RB1#0	22.41	0.17
			RB1#25	22.36	0.17
			RB1#49	22.38	0.17
			RB25#0	21.28	0.13
			RB25#13	21.30	0.13
			RB25#25	21.28	0.13
			RB50#0	21.22	0.13
		16-QAM	RB1#0	21.67	0.15
			RB1#25	21.57	0.14
			RB1#49	21.58	0.14
			RB25#0	20.28	0.11
			RB25#13	20.30	0.11
			RB25#25	20.26	0.11
			RB50#0	20.25	0.11
	HCH	QPSK	RB1#0	22.34	0.17
			RB1#25	22.29	0.17

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB1#49	22.32	0.17
			RB25#0	21.37	0.14
			RB25#13	21.25	0.13
			RB25#25	21.19	0.13
			RB50#0	21.26	0.13
		16-QAM	RB1#0	21.30	0.13
			RB1#25	21.24	0.13
			RB1#49	21.22	0.13
			RB25#0	20.48	0.11
			RB25#13	20.37	0.11
			RB25#25	20.31	0.11
			RB50#0	20.32	0.11
15 MHz	LCH	QPSK	RB1#0	22.47	0.18
			RB1#38	22.23	0.17
			RB1#74	22.31	0.17
			RB36#0	21.43	0.14
			RB36#19	21.34	0.14
			RB36#39	21.35	0.14
			RB75#0	21.41	0.14
		16-QAM	RB1#0	21.23	0.13
			RB1#38	21.13	0.13
			RB1#74	21.16	0.13
			RB36#0	20.39	0.11
			RB36#19	20.31	0.11
			RB36#39	20.32	0.11
			RB75#0	20.38	0.11
	MCH	QPSK	RB1#0	22.52	0.18
			RB1#38	22.36	0.17
			RB1#74	22.38	0.17
			RB36#0	21.45	0.14
			RB36#19	21.45	0.14
			RB36#39	21.46	0.14
			RB75#0	21.45	0.14
		16-QAM	RB1#0	21.79	0.15
			RB1#38	21.58	0.14
			RB1#74	21.59	0.14
		16-QAM	RB36#0	20.43	0.11
			RB36#19	20.41	0.11
			RB36#39	20.41	0.11

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
	HCH	QPSK	RB75#0	20.38	0.11
			RB1#0	22.49	0.18
			RB1#38	22.29	0.17
			RB1#74	22.37	0.17
			RB36#0	21.49	0.14
			RB36#19	21.35	0.14
			RB36#39	21.33	0.14
			RB75#0	21.44	0.14
		16-QAM	RB1#0	21.66	0.15
			RB1#38	21.63	0.15
			RB1#74	21.62	0.15
			RB36#0	20.41	0.11
			RB36#19	20.30	0.11
			RB36#39	20.27	0.11
			RB75#0	20.37	0.11
20 MHz	LCH	QPSK	RB1#0	22.57	0.18
			RB1#50	22.29	0.17
			RB1#99	22.48	0.18
			RB50#0	21.45	0.14
			RB50#25	21.30	0.13
			RB50#50	21.31	0.14
			RB100#0	21.39	0.14
		16-QAM	RB1#0	21.92	0.16
			RB1#50	21.77	0.15
			RB1#99	21.83	0.15
			RB50#0	20.50	0.11
			RB50#25	20.34	0.11
			RB50#50	20.36	0.11
			RB100#0	20.43	0.11
	MCH	QPSK	RB1#0	22.63	0.18
			RB1#50	22.40	0.17
			RB1#99	22.55	0.18
			RB50#0	21.38	0.14
			RB50#25	21.31	0.14
			RB50#50	21.30	0.13
			RB100#0	21.33	0.14
		16-QAM	RB1#0	21.93	0.16
			RB1#50	21.61	0.14
			RB1#99	21.75	0.15

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB50#0	20.38	0.11
			RB50#25	20.31	0.11
			RB50#50	20.29	0.11
			RB100#0	20.29	0.11
	HCH	QPSK	RB1#0	22.59	0.18
			RB1#50	22.27	0.17
			RB1#99	22.45	0.18
			RB50#0	21.45	0.14
			RB50#25	21.31	0.14
			RB50#50	21.21	0.13
			RB100#0	21.39	0.14
		16-QAM	RB1#0	21.76	0.15
			RB1#50	21.63	0.15
			RB1#99	21.74	0.15
			RB50#0	20.43	0.11
			RB50#25	20.29	0.11
			RB50#50	20.20	0.10
			RB100#0	20.37	0.11

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
1.4 MHz	LCH	QPSK	RB1#0	22.50	0.18
			RB1#3	22.55	0.18
			RB1#5	22.50	0.18
			RB3#0	22.42	0.17
			RB3#2	22.50	0.18
			RB3#3	22.51	0.18
			RB6#0	21.45	0.14
		16-QAM	RB1#0	21.47	0.14
			RB1#3	21.39	0.14
			RB1#5	21.48	0.14
			RB3#0	21.53	0.14
			RB3#2	21.47	0.14
			RB3#3	21.46	0.14
			RB6#0	20.48	0.11
	MCH	QPSK	RB1#0	22.31	0.17
			RB1#3	22.43	0.17
			RB1#5	22.38	0.17
			RB3#0	22.48	0.18
			RB3#2	22.54	0.18
			RB3#3	22.53	0.18
			RB6#0	21.36	0.14
		16-QAM	RB1#0	21.91	0.16
			RB1#3	21.79	0.15
			RB1#5	21.87	0.15
			RB3#0	21.83	0.15
			RB3#2	21.77	0.15
			RB3#3	21.84	0.15
			RB6#0	20.31	0.11
	HCH	QPSK	RB1#0	22.30	0.17
			RB1#3	22.41	0.17
			RB1#5	22.33	0.17
			RB3#0	22.50	0.18
			RB3#2	22.40	0.17
			RB3#3	22.36	0.17
			RB6#0	21.31	0.14
		16-QAM	RB1#0	21.38	0.14
			RB1#3	21.29	0.13
			RB1#5	21.39	0.14
			RB3#0	21.63	0.15

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
3 MHz			RB3#2	21.64	0.15
			RB3#3	21.69	0.15
			RB6#0	20.44	0.11
	LCH	QPSK	RB1#0	22.47	0.18
			RB1#7	22.38	0.17
			RB1#14	22.40	0.17
			RB8#0	21.55	0.14
			RB8#4	21.57	0.14
			RB8#7	21.56	0.14
			RB15#0	21.48	0.14
		16-QAM	RB1#0	21.23	0.13
			RB1#7	21.15	0.13
			RB1#14	21.19	0.13
			RB8#0	20.56	0.11
			RB8#4	20.59	0.11
			RB8#7	20.58	0.11
			RB15#0	20.47	0.11
	MCH	QPSK	RB1#0	22.36	0.17
			RB1#7	22.37	0.17
			RB1#14	22.42	0.17
			RB8#0	21.52	0.14
			RB8#4	21.57	0.14
			RB8#7	21.60	0.14
			RB15#0	21.53	0.14
		16-QAM	RB1#0	21.79	0.15
			RB1#7	21.74	0.15
			RB1#14	21.77	0.15
			RB8#0	20.61	0.12
			RB8#4	20.64	0.12
			RB8#7	20.66	0.12
			RB15#0	20.55	0.11
	HCH	QPSK	RB1#0	22.36	0.17
			RB1#7	22.30	0.17
			RB1#14	22.38	0.17
			RB8#0	21.46	0.14
			RB8#4	21.50	0.14
			RB8#7	21.48	0.14
			RB15#0	21.45	0.14
		16-QAM	RB1#0	21.38	0.14

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB1#7	21.26	0.13
			RB1#14	21.33	0.14
			RB8#0	20.49	0.11
			RB8#4	20.54	0.11
			RB8#7	20.52	0.11
			RB15#0	20.40	0.11
5 MHz	LCH	QPSK	RB1#0	22.43	0.17
			RB1#13	22.31	0.17
			RB1#24	22.31	0.17
			RB12#0	21.41	0.14
			RB12#6	21.41	0.14
			RB12#13	21.39	0.14
			RB25#0	21.36	0.14
		16-QAM	RB1#0	21.46	0.14
			RB1#13	21.43	0.14
			RB1#24	21.46	0.14
			RB12#0	20.46	0.11
			RB12#6	20.46	0.11
			RB12#13	20.42	0.11
			RB25#0	20.37	0.11
	MCH	QPSK	RB1#0	22.36	0.17
			RB1#13	22.38	0.17
			RB1#24	22.38	0.17
			RB12#0	21.41	0.14
			RB12#6	21.45	0.14
			RB12#13	21.47	0.14
			RB25#0	21.46	0.14
		16-QAM	RB1#0	21.85	0.15
			RB1#13	21.84	0.15
			RB1#24	21.83	0.15
			RB12#0	20.60	0.11
			RB12#6	20.63	0.12
			RB12#13	20.65	0.12
			RB25#0	20.53	0.11
	HCH	QPSK	RB1#0	22.26	0.17
			RB1#13	22.27	0.17
			RB1#24	22.26	0.17
			RB12#0	21.43	0.14
			RB12#6	21.42	0.14

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB12#13	21.31	0.14
			RB25#0	21.37	0.14
		16-QAM	RB1#0	21.35	0.14
			RB1#13	21.35	0.14
			RB1#24	21.36	0.14
			RB12#0	20.46	0.11
			RB12#6	20.45	0.11
			RB12#13	20.37	0.11
			RB25#0	20.33	0.11
10 MHz	LCH	QPSK	RB1#0	22.57	0.18
			RB1#25	22.46	0.18
			RB1#49	22.48	0.18
			RB25#0	21.44	0.14
			RB25#13	21.41	0.14
			RB25#25	21.36	0.14
			RB50#0	21.42	0.14
		16-QAM	RB1#0	21.30	0.13
			RB1#25	21.31	0.14
			RB1#49	21.40	0.14
			RB25#0	20.47	0.11
			RB25#13	20.45	0.11
			RB25#25	20.39	0.11
			RB50#0	20.40	0.11
	MCH	QPSK	RB1#0	22.43	0.17
			RB1#25	22.49	0.18
			RB1#49	22.51	0.18
			RB25#0	21.50	0.14
			RB25#13	21.49	0.14
			RB25#25	21.50	0.14
			RB50#0	21.50	0.14
		16-QAM	RB1#0	21.81	0.15
			RB1#25	21.85	0.15
			RB1#49	21.78	0.15
			RB25#0	20.54	0.11
			RB25#13	20.54	0.11
			RB25#25	20.53	0.11
			RB50#0	20.50	0.11
	HCH	QPSK	RB1#0	22.48	0.18
			RB1#25	22.45	0.18

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB1#49	22.46	0.18
			RB25#0	21.40	0.14
			RB25#13	21.40	0.14
			RB25#25	21.29	0.13
			RB50#0	21.32	0.14
		16-QAM	RB1#0	21.39	0.14
			RB1#25	21.36	0.14
			RB1#49	21.39	0.14
			RB25#0	20.49	0.11
			RB25#13	20.46	0.11
			RB25#25	20.35	0.11
			RB50#0	20.36	0.11

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
5 MHz	LCH	QPSK	RB1#0	21.41	0.14
			RB1#13	21.38	0.14
			RB1#24	21.91	0.16
			RB12#0	20.43	0.11
			RB12#6	20.43	0.11
			RB12#13	20.41	0.11
			RB25#0	20.39	0.11
		16-QAM	RB1#0	20.47	0.11
			RB1#13	20.45	0.11
			RB1#24	20.96	0.12
			RB12#0	19.49	0.09
			RB12#6	19.51	0.09
			RB12#13	19.48	0.09
			RB25#0	19.44	0.09
	MCH	QPSK	RB1#0	22.06	0.16
			RB1#13	22.04	0.16
			RB1#24	22.09	0.16
			RB12#0	21.07	0.13
			RB12#6	21.10	0.13
			RB12#13	21.06	0.13
			RB25#0	21.07	0.13
		16-QAM	RB1#0	21.46	0.14
			RB1#13	21.46	0.14
			RB1#24	21.47	0.14
			RB12#0	20.19	0.10
			RB12#6	20.22	0.11
			RB12#13	20.20	0.10
			RB25#0	20.12	0.10
	HCH	QPSK	RB1#0	22.04	0.16
			RB1#13	21.53	0.14
			RB1#24	21.55	0.14
			RB12#0	20.60	0.11
			RB12#6	20.61	0.12
			RB12#13	20.58	0.11
			RB25#0	20.59	0.11
		16-QAM	RB1#0	21.06	0.13
			RB1#13	20.56	0.11
			RB1#24	20.59	0.11
			RB12#0	19.68	0.09

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
10 MHz			RB12#6	19.70	0.09
			RB12#13	19.67	0.09
			RB25#0	19.58	0.09
	LCH	QPSK	RB1#0	21.56	0.14
			RB1#25	22.06	0.16
			RB1#49	22.11	0.16
			RB25#0	20.43	0.11
			RB25#13	20.43	0.11
			RB25#25	20.93	0.12
			RB50#0	20.43	0.11
		16-QAM	RB1#0	20.33	0.11
			RB1#25	20.79	0.12
			RB1#49	20.86	0.12
			RB25#0	19.47	0.09
			RB25#13	19.47	0.09
			RB25#25	19.94	0.10
			RB50#0	19.45	0.09
	MCH	QPSK	RB1#0	22.15	0.16
			RB1#25	22.17	0.16
			RB1#49	22.22	0.17
			RB25#0	21.12	0.13
			RB25#13	21.11	0.13
			RB25#25	21.12	0.13
			RB50#0	21.10	0.13
		16-QAM	RB1#0	21.42	0.14
			RB1#25	21.41	0.14
			RB1#49	21.46	0.14
			RB25#0	20.13	0.10
			RB25#13	20.12	0.10
			RB25#25	20.14	0.10
			RB50#0	20.12	0.10
	HCH	QPSK	RB1#0	22.23	0.17
			RB1#25	22.20	0.17
			RB1#49	21.74	0.15
			RB25#0	21.13	0.13
			RB25#13	20.60	0.11
			RB25#25	20.58	0.11
			RB50#0	20.61	0.12
		16-QAM	RB1#0	21.09	0.13

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#25	21.04	0.13
			RB1#49	20.60	0.11
			RB25#0	20.20	0.10
			RB25#13	19.73	0.09
			RB25#25	19.70	0.09
			RB50#0	19.69	0.09
15 MHz	LCH	QPSK	RB1#0	21.69	0.15
			RB1#38	22.05	0.16
			RB1#74	22.16	0.16
			RB36#0	20.61	0.12
			RB36#19	21.09	0.13
			RB36#39	21.11	0.13
		16-QAM	RB75#0	20.59	0.11
			RB1#0	20.44	0.11
			RB1#38	20.80	0.12
			RB1#74	20.92	0.12
			RB36#0	19.55	0.09
			RB36#19	20.00	0.10
			RB36#39	20.03	0.10
			RB75#0	19.57	0.09
	MCH	QPSK	RB1#0	22.25	0.17
			RB1#38	22.16	0.16
			RB1#74	22.25	0.17
			RB36#0	21.23	0.13
			RB36#19	21.20	0.13
			RB36#39	21.25	0.13
		16-QAM	RB75#0	21.24	0.13
			RB1#0	21.52	0.14
			RB1#38	21.42	0.14
			RB1#74	21.48	0.14
			RB36#0	20.22	0.11
			RB36#19	20.20	0.10
			RB36#39	20.23	0.11
			RB75#0	20.21	0.10
	HCH	QPSK	RB1#0	22.36	0.17
			RB1#38	22.17	0.16
			RB1#74	21.77	0.15
			RB36#0	21.30	0.13
			RB36#19	20.67	0.12

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB36#39	20.69	0.12
			RB75#0	20.74	0.12
		16-QAM	RB1#0	21.51	0.14
			RB1#38	21.36	0.14
			RB1#74	20.97	0.13
			RB36#0	20.20	0.10
			RB36#19	19.64	0.09
			RB36#39	19.65	0.09
			RB75#0	19.72	0.09
20 MHz	LCH	QPSK	RB1#0	21.78	0.15
			RB1#50	22.09	0.16
			RB1#99	22.32	0.17
			RB50#0	20.57	0.11
			RB50#25	21.00	0.13
			RB50#50	20.99	0.13
			RB100#0	20.53	0.11
		16-QAM	RB1#0	21.14	0.13
			RB1#50	21.46	0.14
			RB1#99	21.70	0.15
			RB50#0	19.59	0.09
			RB50#25	20.00	0.10
			RB50#50	20.00	0.10
			RB100#0	19.59	0.09
	MCH	QPSK	RB1#0	22.36	0.17
			RB1#50	22.22	0.17
			RB1#99	22.42	0.17
			RB50#0	21.23	0.13
			RB50#25	21.15	0.13
			RB50#50	21.20	0.13
			RB100#0	21.21	0.13
		16-QAM	RB1#0	21.62	0.15
			RB1#50	21.47	0.14
			RB1#99	21.63	0.15
			RB50#0	20.24	0.11
			RB50#25	20.16	0.10
			RB50#50	20.20	0.10
			RB100#0	20.21	0.10
	HCH	QPSK	RB1#0	22.39	0.17
			RB1#50	22.13	0.16

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#99	21.81	0.15
			RB50#0	21.30	0.13
			RB50#25	21.13	0.13
			RB50#50	20.62	0.12
			RB100#0	20.72	0.12
		16-QAM	RB1#0	21.61	0.14
			RB1#50	21.41	0.14
			RB1#99	21.09	0.13
			RB50#0	20.27	0.11
			RB50#25	20.09	0.10
			RB50#50	19.62	0.09
			RB100#0	19.75	0.09

A.1.2 Transmitter Radiated Output Power (EIRP/ERP)

GSM Mode Test Data

Test Band	Channel	PCL	Measured ERP		Limit (W)	Verdict
			ERP (dBm)	ERP (W)		
GSM 850	LCH	5	28.921	0.78	7	Pass
	MCH	5	27.703	0.59		Pass
	HCH	5	26.697	0.47		Pass
GPRS 850	LCH	5	28.687	0.74		Pass
	MCH	5	27.417	0.55		Pass
	HCH	5	26.190	0.42		Pass
EGPRS 850	LCH	8	25.803	0.38		Pass
	MCH	8	25.639	0.37		Pass
	HCH	8	23.458	0.22		Pass

Test Band	Channel	PCL	Measured EIRP		Limit (W)	Verdict
			EIRP (dBm)	EIRP (W)		
GSM 1900	LCH	0	28.574	0.72	2	Pass
	MCH	0	27.347	0.54		Pass
	HCH	0	26.756	0.47		Pass
GPRS 1900	LCH	0	28.532	0.71		Pass
	MCH	0	27.541	0.57		Pass
	HCH	0	26.953	0.50		Pass
EGPRS 1900	LCH	2	26.373	0.43		Pass
	MCH	2	26.942	0.49		Pass
	HCH	2	25.659	0.37		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: $ERP/EIRP = SA \text{ Read Value} + \text{Correction Factor}$

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;

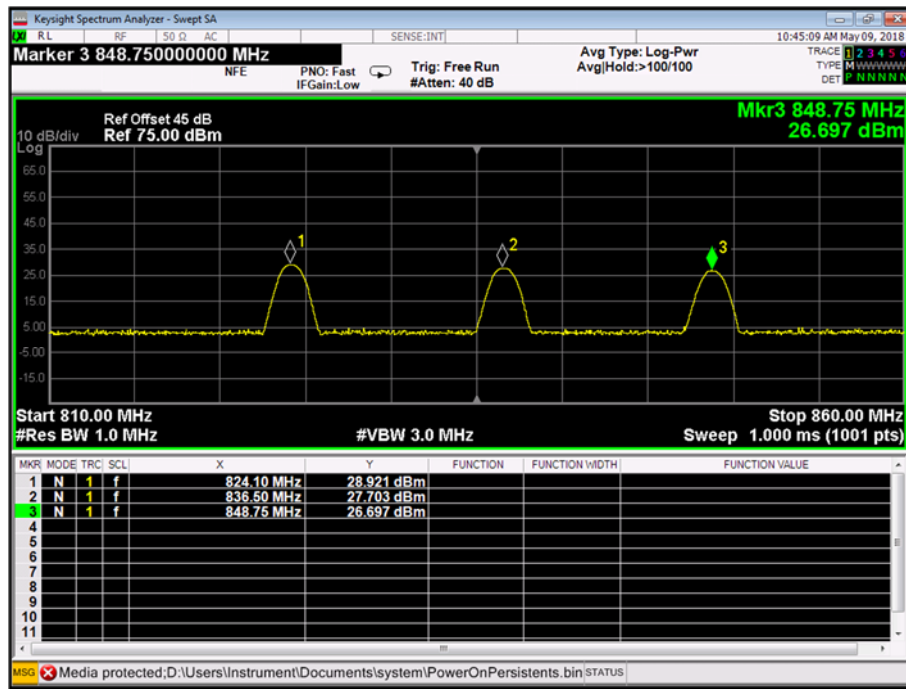
Correction Factor = total correction factor including cable loss, in dB;

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

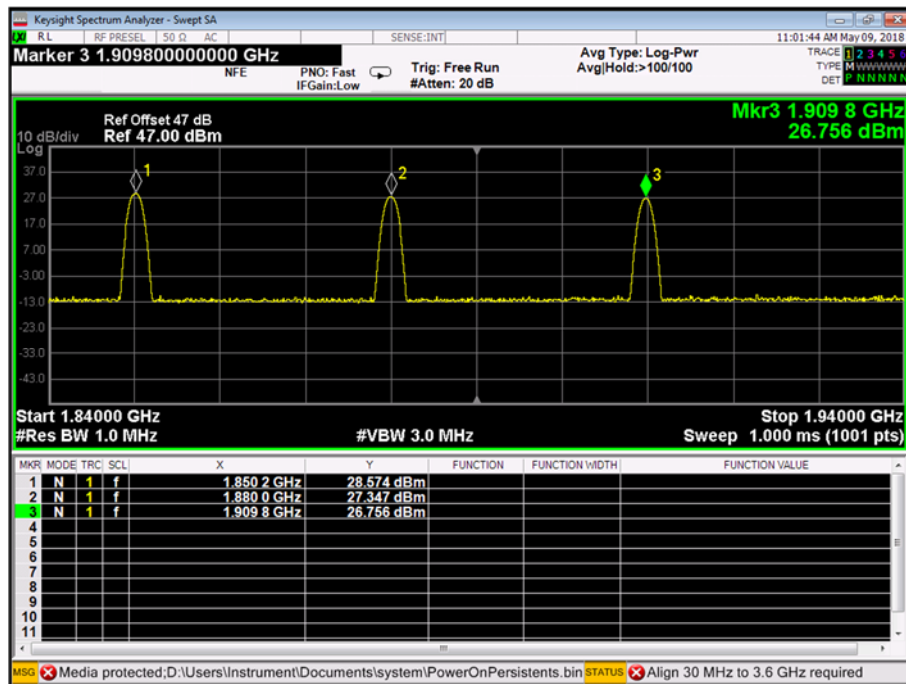
Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

GSM Mode Test Plots

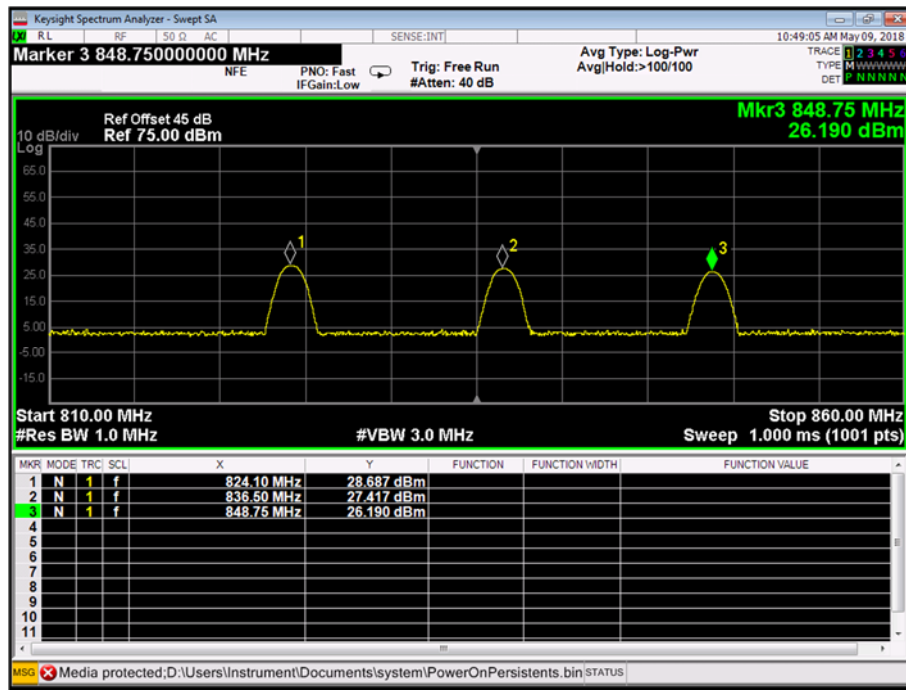
GSM850



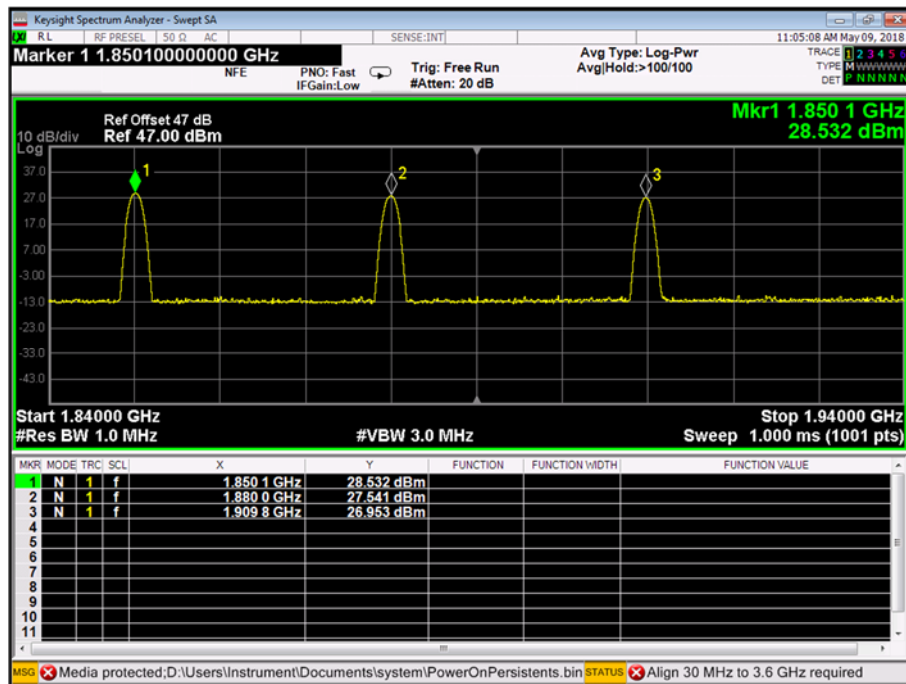
GSM1900



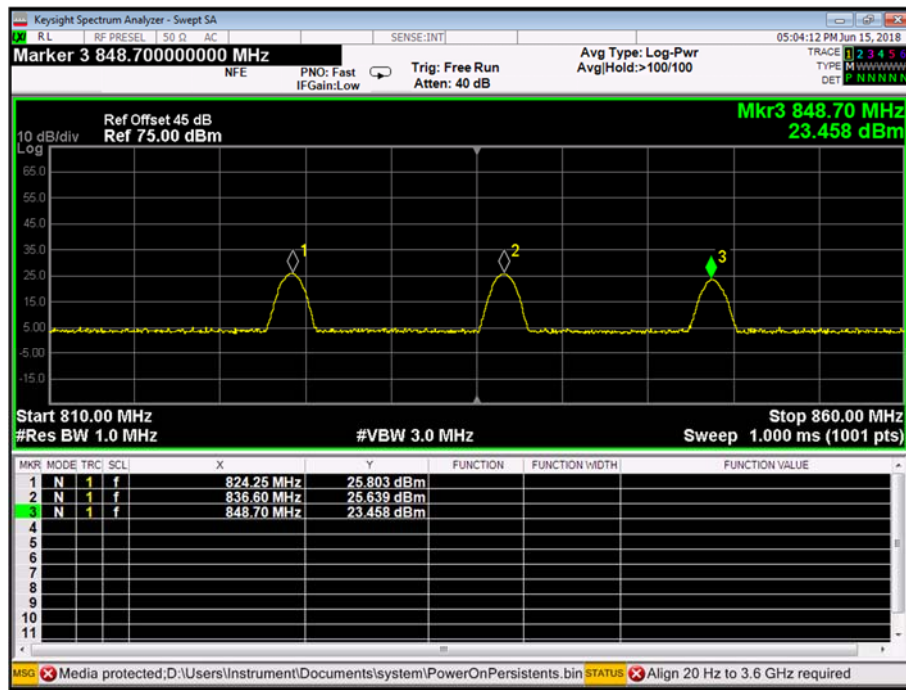
GPRS850



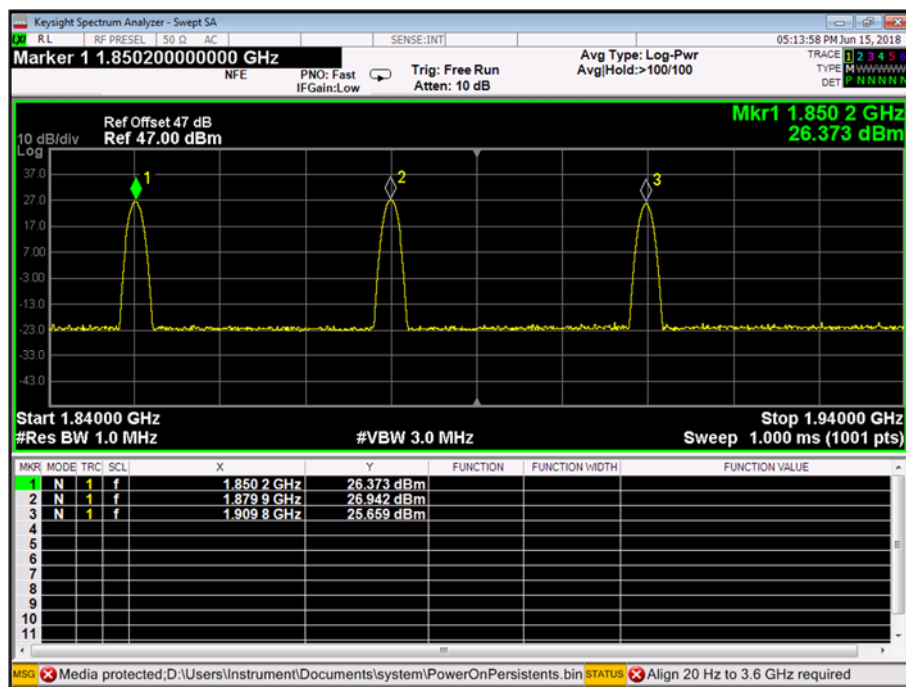
GPRS1900



EGPRS850



EGPRS1900



WCDMA Mode Test Data

Test Band	Channel	Measured EIRP		Limit (W)	Verdict
		EIRP (dBm)	EIRP (W)		
WCDMA B2	LCH	17.03	0.05	2	Pass
	MCH	16.95	0.05		Pass
	HCH	16.83	0.05		Pass
HSDPA B2	LCH	16.05	0.04		Pass
	MCH	16.67	0.05		Pass
	HCH	16.19	0.04		Pass
HSUPA B2	LCH	16.47	0.04		Pass
	MCH	16.30	0.04		Pass
	HCH	16.20	0.04		Pass

Test Band	Channel	Measured EIRP		Limit (W)	Verdict
		EIRP (dBm)	EIRP (W)		
WCDMA B4	LCH	17.92	0.06	1	Pass
	MCH	17.92	0.06		Pass
	HCH	18.58	0.07		Pass
HSDPA B4	LCH	16.86	0.05		Pass
	MCH	16.84	0.05		Pass
	HCH	17.47	0.06		Pass
HSUPA B4	LCH	17.15	0.05		Pass
	MCH	16.59	0.05		Pass
	HCH	17.45	0.06		Pass

Test Band	Channel	Measured ERP		Limit (W)	Verdict
		ERP (dBm)	ERP (W)		
WCDMA B5	LCH	18.14	0.07	7	Pass
	MCH	17.53	0.06		Pass
	HCH	17.08	0.05		Pass
HSDPA B5	LCH	18.03	0.06		Pass
	MCH	17.38	0.05		Pass
	HCH	17.42	0.06		Pass
HSUPA B5	LCH	18.29	0.07		Pass
	MCH	17.97	0.06		Pass
	HCH	17.29	0.05		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: $ERP/EIRP = SA \text{ Read Value} + \text{Correction Factor}$

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;

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2							
1.4 MHz	LCH	QPSK	RB1#0	16.87	0.05	2.00	Pass
			RB6#0	16.92	0.05	2.00	Pass
		16-QAM	RB1#0	17.03	0.05	2.00	Pass
			RB6#0	17.08	0.05	2.00	Pass
	MCH	QPSK	RB1#0	17.99	0.06	2.00	Pass
			RB6#0	17.63	0.06	2.00	Pass
		16-QAM	RB1#0	17.59	0.06	2.00	Pass
			RB6#0	17.86	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.69	0.06	2.00	Pass
			RB6#0	17.52	0.06	2.00	Pass
		16-QAM	RB1#0	17.33	0.05	2.00	Pass
			RB6#0	17.29	0.05	2.00	Pass
3 MHz	LCH	QPSK	RB1#0	17.83	0.06	2.00	Pass
			RB15#0	17.28	0.05	2.00	Pass
		16-QAM	RB1#0	17.59	0.06	2.00	Pass
			RB15#0	17.53	0.06	2.00	Pass
	MCH	QPSK	RB1#0	17.48	0.06	2.00	Pass
			RB15#0	17.62	0.06	2.00	Pass
		16-QAM	RB1#0	17.59	0.06	2.00	Pass
			RB15#0	17.42	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.89	0.06	2.00	Pass
			RB15#0	17.65	0.06	2.00	Pass
		16-QAM	RB1#0	17.39	0.05	2.00	Pass
			RB15#0	17.58	0.06	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	17.45	0.06	2.00	Pass
			RB25#0	17.28	0.05	2.00	Pass
		16-QAM	RB1#0	17.33	0.05	2.00	Pass
			RB25#0	17.24	0.05	2.00	Pass
	MCH	QPSK	RB1#0	17.99	0.06	2.00	Pass
			RB25#0	18.06	0.06	2.00	Pass
		16-QAM	RB1#0	18.04	0.06	2.00	Pass
			RB25#0	17.97	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.81	0.06	2.00	Pass
			RB25#0	17.88	0.06	2.00	Pass
		16-QAM	RB1#0	17.90	0.06	2.00	Pass
			RB25#0	17.86	0.06	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	17.84	0.06	2.00	Pass
			RB50#0	17.95	0.06	2.00	Pass
		16-QAM	RB1#0	17.38	0.05	2.00	Pass
			RB50#0	17.57	0.06	2.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2							
	MCH	QPSK	RB1#0	17.75	0.06	2.00	Pass
			RB50#0	17.11	0.05	2.00	Pass
		16-QAM	RB1#0	17.28	0.05	2.00	Pass
			RB50#0	17.47	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.63	0.06	2.00	Pass
			RB50#0	17.82	0.06	2.00	Pass
		16-QAM	RB1#0	17.44	0.06	2.00	Pass
			RB50#0	17.64	0.06	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	17.83	0.06	2.00	Pass
			RB75#0	17.32	0.05	2.00	Pass
		16-QAM	RB1#0	17.59	0.06	2.00	Pass
			RB75#0	17.84	0.06	2.00	Pass
	MCH	QPSK	RB1#0	17.89	0.06	2.00	Pass
			RB75#0	17.18	0.05	2.00	Pass
		16-QAM	RB1#0	17.58	0.06	2.00	Pass
			RB75#0	17.46	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.82	0.06	2.00	Pass
			RB75#0	17.86	0.06	2.00	Pass
		16-QAM	RB1#0	17.54	0.06	2.00	Pass
			RB75#0	17.87	0.06	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	17.43	0.06	2.00	Pass
			RB100#0	17.29	0.05	2.00	Pass
		16-QAM	RB1#0	17.68	0.06	2.00	Pass
			RB100#0	17.54	0.06	2.00	Pass
	MCH	QPSK	RB1#0	17.28	0.05	2.00	Pass
			RB100#0	17.19	0.05	2.00	Pass
		16-QAM	RB1#0	17.24	0.05	2.00	Pass
			RB100#0	17.46	0.06	2.00	Pass
	HCH	QPSK	RB1#0	17.58	0.06	2.00	Pass
			RB100#0	17.83	0.06	2.00	Pass
		16-QAM	RB1#0	17.36	0.05	2.00	Pass
			RB100#0	17.42	0.06	2.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4							
1.4 MHz	LCH	QPSK	RB1#0	18.22	0.07	1.00	Pass
			RB6#0	18.63	0.07	1.00	Pass
		16-QAM	RB1#0	18.59	0.07	1.00	Pass
			RB6#0	18.54	0.07	1.00	Pass
	MCH	QPSK	RB1#0	18.41	0.07	1.00	Pass
			RB6#0	18.47	0.07	1.00	Pass
		16-QAM	RB1#0	18.59	0.07	1.00	Pass
			RB6#0	18.88	0.08	1.00	Pass
	HCH	QPSK	RB1#0	18.67	0.07	1.00	Pass
			RB6#0	18.49	0.07	1.00	Pass
		16-QAM	RB1#0	18.66	0.07	1.00	Pass
			RB6#0	18.74	0.07	1.00	Pass
3 MHz	LCH	QPSK	RB1#0	18.36	0.07	1.00	Pass
			RB15#0	18.46	0.07	1.00	Pass
		16-QAM	RB1#0	18.84	0.08	1.00	Pass
			RB15#0	18.39	0.07	1.00	Pass
	MCH	QPSK	RB1#0	18.62	0.07	1.00	Pass
			RB15#0	18.77	0.08	1.00	Pass
		16-QAM	RB1#0	18.76	0.08	1.00	Pass
			RB15#0	18.26	0.07	1.00	Pass
	HCH	QPSK	RB1#0	18.94	0.08	1.00	Pass
			RB15#0	18.71	0.07	1.00	Pass
		16-QAM	RB1#0	18.28	0.07	1.00	Pass
			RB15#0	18.37	0.07	1.00	Pass
5 MHz	LCH	QPSK	RB1#0	18.26	0.07	1.00	Pass
			RB25#0	18.55	0.07	1.00	Pass
		16-QAM	RB1#0	18.07	0.06	1.00	Pass
			RB25#0	18.21	0.07	1.00	Pass
	MCH	QPSK	RB1#0	18.09	0.06	1.00	Pass
			RB25#0	18.26	0.07	1.00	Pass
		16-QAM	RB1#0	18.04	0.06	1.00	Pass
			RB25#0	18.66	0.07	1.00	Pass
	HCH	QPSK	RB1#0	18.37	0.07	1.00	Pass
			RB25#0	18.44	0.07	1.00	Pass
		16-QAM	RB1#0	18.51	0.07	1.00	Pass
			RB25#0	18.58	0.07	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	18.12	0.06	1.00	Pass
			RB50#0	18.24	0.07	1.00	Pass
		16-QAM	RB1#0	18.19	0.07	1.00	Pass
			RB50#0	18.01	0.06	1.00	Pass
	MCH	QPSK	RB1#0	17.73	0.06	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4							
		16-QAM	RB50#0	17.98	0.06	1.00	Pass
			RB1#0	18.06	0.06	1.00	Pass
		QPSK	RB50#0	17.96	0.06	1.00	Pass
			RB1#0	17.83	0.06	1.00	Pass
	HCH	16-QAM	RB50#0	18.10	0.06	1.00	Pass
			RB1#0	17.94	0.06	1.00	Pass
		QPSK	RB50#0	17.88	0.06	1.00	Pass
			RB1#0	17.88	0.06	1.00	Pass
15 MHz	LCH	QPSK	RB1#0	18.69	0.07	1.00	Pass
			RB75#0	18.12	0.06	1.00	Pass
		16-QAM	RB1#0	18.17	0.07	1.00	Pass
			RB75#0	18.23	0.07	1.00	Pass
	MCH	QPSK	RB1#0	18.10	0.06	1.00	Pass
			RB75#0	18.11	0.06	1.00	Pass
		16-QAM	RB1#0	18.06	0.06	1.00	Pass
			RB75#0	18.24	0.07	1.00	Pass
	HCH	QPSK	RB1#0	18.30	0.07	1.00	Pass
			RB75#0	18.26	0.07	1.00	Pass
		16-QAM	RB1#0	18.76	0.08	1.00	Pass
			RB75#0	18.81	0.08	1.00	Pass
20 MHz	LCH	QPSK	RB1#0	18.54	0.07	1.00	Pass
			RB100#0	18.66	0.07	1.00	Pass
		16-QAM	RB1#0	18.49	0.07	1.00	Pass
			RB100#0	18.52	0.07	1.00	Pass
	MCH	QPSK	RB1#0	18.27	0.07	1.00	Pass
			RB100#0	18.37	0.07	1.00	Pass
		16-QAM	RB1#0	18.40	0.07	1.00	Pass
			RB100#0	18.22	0.07	1.00	Pass
	HCH	QPSK	RB1#0	18.31	0.07	1.00	Pass
			RB100#0	18.28	0.07	1.00	Pass
		16-QAM	RB1#0	18.31	0.07	1.00	Pass
			RB100#0	18.26	0.07	1.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5							
1.4 MHz	LCH	QPSK	RB1#0	17.76	0.06	7.00	Pass
			RB6#0	17.79	0.06	7.00	Pass
		16-QAM	RB1#0	17.62	0.06	7.00	Pass
			RB6#0	17.77	0.06	7.00	Pass
	MCH	QPSK	RB1#0	17.82	0.06	7.00	Pass
			RB6#0	17.93	0.06	7.00	Pass
		16-QAM	RB1#0	17.87	0.06	7.00	Pass
			RB6#0	17.71	0.06	7.00	Pass
	HCH	QPSK	RB1#0	17.76	0.06	7.00	Pass
			RB6#0	17.58	0.06	7.00	Pass
		16-QAM	RB1#0	17.84	0.06	7.00	Pass
			RB6#0	17.35	0.05	7.00	Pass
3 MHz	LCH	QPSK	RB1#0	17.48	0.06	7.00	Pass
			RB15#0	17.56	0.06	7.00	Pass
		16-QAM	RB1#0	17.58	0.06	7.00	Pass
			RB15#0	17.66	0.06	7.00	Pass
	MCH	QPSK	RB1#0	17.85	0.06	7.00	Pass
			RB15#0	17.89	0.06	7.00	Pass
		16-QAM	RB1#0	17.76	0.06	7.00	Pass
			RB15#0	17.73	0.06	7.00	Pass
	HCH	QPSK	RB1#0	17.81	0.06	7.00	Pass
			RB15#0	17.69	0.06	7.00	Pass
		16-QAM	RB1#0	17.75	0.06	7.00	Pass
			RB15#0	17.66	0.06	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	17.81	0.06	7.00	Pass
			RB25#0	17.36	0.05	7.00	Pass
		16-QAM	RB1#0	17.46	0.06	7.00	Pass
			RB25#0	17.67	0.06	7.00	Pass
	MCH	QPSK	RB1#0	17.40	0.05	7.00	Pass
			RB25#0	17.71	0.06	7.00	Pass
		16-QAM	RB1#0	17.59	0.06	7.00	Pass
			RB25#0	17.88	0.06	7.00	Pass
	HCH	QPSK	RB1#0	17.07	0.05	7.00	Pass
			RB25#0	17.76	0.06	7.00	Pass
		16-QAM	RB1#0	17.68	0.06	7.00	Pass
			RB25#0	17.59	0.06	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	17.67	0.06	7.00	Pass
			RB50#0	17.82	0.06	7.00	Pass
		16-QAM	RB1#0	17.65	0.06	7.00	Pass
			RB50#0	17.57	0.06	7.00	Pass
	MCH	QPSK	RB1#0	17.44	0.06	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5							
		16-QAM	RB50#0	17.73	0.06	7.00	Pass
			RB1#0	17.76	0.06	7.00	Pass
			RB50#0	17.85	0.06	7.00	Pass
	HCH	QPSK	RB1#0	17.82	0.06	7.00	Pass
			RB50#0	17.88	0.06	7.00	Pass
		16-QAM	RB1#0	17.76	0.06	7.00	Pass
			RB50#0	17.69	0.06	7.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7							
5 MHz	LCH	QPSK	RB1#0	21.36	0.14	2.00	Pass
			RB25#0	21.56	0.14	2.00	Pass
		16-QAM	RB1#0	21.79	0.15	2.00	Pass
			RB25#0	21.68	0.15	2.00	Pass
	MCH	QPSK	RB1#0	21.77	0.15	2.00	Pass
			RB25#0	21.73	0.15	2.00	Pass
		16-QAM	RB1#0	21.91	0.16	2.00	Pass
			RB25#0	21.86	0.15	2.00	Pass
	HCH	QPSK	RB1#0	21.48	0.14	2.00	Pass
			RB25#0	21.50	0.14	2.00	Pass
		16-QAM	RB1#0	21.62	0.15	2.00	Pass
			RB25#0	21.57	0.14	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	21.66	0.15	2.00	Pass
			RB50#0	21.52	0.14	2.00	Pass
		16-QAM	RB1#0	21.88	0.15	2.00	Pass
			RB50#0	21.84	0.15	2.00	Pass
	MCH	QPSK	RB1#0	21.98	0.16	2.00	Pass
			RB50#0	21.87	0.15	2.00	Pass
		16-QAM	RB1#0	21.83	0.15	2.00	Pass
			RB50#0	21.79	0.15	2.00	Pass
	HCH	QPSK	RB1#0	21.82	0.15	2.00	Pass
			RB50#0	21.77	0.15	2.00	Pass
		16-QAM	RB1#0	21.64	0.15	2.00	Pass
			RB50#0	21.58	0.14	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	21.73	0.15	2.00	Pass
			RB75#0	21.69	0.15	2.00	Pass
		16-QAM	RB1#0	21.72	0.15	2.00	Pass
			RB75#0	21.58	0.14	2.00	Pass
	MCH	QPSK	RB1#0	22.07	0.16	2.00	Pass
			RB75#0	21.98	0.16	2.00	Pass
		16-QAM	RB1#0	22.11	0.16	2.00	Pass
			RB75#0	22.07	0.16	2.00	Pass
	HCH	QPSK	RB1#0	22.16	0.16	2.00	Pass
			RB75#0	22.20	0.17	2.00	Pass
		16-QAM	RB1#0	22.05	0.16	2.00	Pass
			RB75#0	21.96	0.16	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	22.36	0.17	2.00	Pass
			RB100#0	22.06	0.16	2.00	Pass
		16-QAM	RB1#0	22.18	0.17	2.00	Pass
			RB100#0	22.23	0.17	2.00	Pass
	MCH	QPSK	RB1#0	22.34	0.17	2.00	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7							
		16-QAM	RB100#0	22.29	0.17	2.00	Pass
			RB1#0	22.30	0.17	2.00	Pass
			RB100#0	22.27	0.17	2.00	Pass
	HCH	QPSK	RB1#0	22.19	0.17	2.00	Pass
			RB100#0	22.21	0.17	2.00	Pass
		16-QAM	RB1#0	22.37	0.17	2.00	Pass
			RB100#0	22.16	0.16	2.00	Pass

A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document "Annex No.:BL-SZ1840111-501 Data Part 1.pdf".

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
Band 2	LCH	2.90	13	1.1	Pass
	MCH	3.04	13	1.2	Pass
	HCH	2.75	13	1.3	Pass
Band 4	LCH	2.75	13	1.4	Pass
	MCH	2.64	13	1.5	Pass
	HCH	3.13	13	1.6	Pass
Band 5	LCH	2.72	13	1.7	Pass
	MCH	3.16	13	1.8	Pass
	HCH	2.96	13	1.9	Pass

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	3.16	13	1.10	Pass
				RB100#0	4.78	13	1.11	Pass
			16-QAM	RB1#0	4.12	13	1.12	Pass
				RB100#0	5.74	13	1.13	Pass
		MCH	QPSK	RB1#0	3.88	13	1.14	Pass
				RB100#0	4.81	13	1.15	Pass
			16-QAM	RB1#0	4.90	13	1.16	Pass
				RB100#0	5.71	13	1.17	Pass
		HCH	QPSK	RB1#0	3.36	13	1.18	Pass
				RB100#0	4.72	13	1.19	Pass
			16-QAM	RB1#0	4.46	13	1.20	Pass
				RB100#0	5.71	13	1.21	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	3.01	13	1.22	Pass
				RB100#0	5.07	13	1.23	Pass
			16-QAM	RB1#0	4.06	13	1.24	Pass
				RB100#0	6.09	13	1.25	Pass
		MCH	QPSK	RB1#0	4.17	13	1.26	Pass
				RB100#0	4.75	13	1.27	Pass
			16-QAM	RB1#0	4.96	13	1.28	Pass
				RB100#0	5.71	13	1.29	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
		HCH	QPSK	RB1#0	3.01	13	1.30	Pass
				RB100#0	4.87	13	1.31	Pass
			16-QAM	RB1#0	4.03	13	1.32	Pass
				RB100#0	5.88	13	1.33	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	3.36	13	1.34	Pass
				RB50#0	4.96	13	1.35	Pass
			16-QAM	RB1#0	4.38	13	1.36	Pass
				RB50#0	5.94	13	1.37	Pass
		MCH	QPSK	RB1#0	4.78	13	1.38	Pass
				RB50#0	5.19	13	1.39	Pass
			16-QAM	RB1#0	5.62	13	1.40	Pass
				RB50#0	6.14	13	1.41	Pass
		HCH	QPSK	RB1#0	3.86	13	1.42	Pass
				RB50#0	4.81	13	1.43	Pass
			16-QAM	RB1#0	4.67	13	1.44	Pass
				RB50#0	5.86	13	1.45	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	3.68	13	1.46	Pass
				RB100#0	5.07	13	1.47	Pass
			16-QAM	RB1#0	4.52	13	1.48	Pass
				RB100#0	6.03	13	1.49	Pass
		MCH	QPSK	RB1#0	3.83	13	1.50	Pass
				RB100#0	5.13	13	1.51	Pass
			16-QAM	RB1#0	4.81	13	1.52	Pass
				RB100#0	6.06	13	1.53	Pass
		HCH	QPSK	RB1#0	3.48	13	1.54	Pass
				RB100#0	5.16	13	1.55	Pass
			16-QAM	RB1#0	4.58	13	1.56	Pass
				RB100#0	6.09	13	1.57	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-SZ1840111-501 Data Part 2.pdf”.

GSM and WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
GSM 850	LCH	0.25	0.31	1.1
	MCH	0.25	0.31	1.2
	HCH	0.25	0.31	1.3
GSM 1900	LCH	0.25	0.31	1.4
	MCH	0.25	0.31	1.5
	HCH	0.25	0.31	1.6
EGPRS 850	LCH	0.25	0.31	1.7
	MCH	0.25	0.31	1.8
	HCH	0.25	0.31	1.9
EGPRS 1900	LCH	0.26	0.33	1.10
	MCH	0.26	0.33	1.11
	HCH	0.26	0.33	1.12
WCDMA Band 2	LCH	4.14	4.67	1.13
	MCH	4.15	4.67	1.14
	HCH	4.16	4.67	1.15
WCDMA Band 4	LCH	4.15	4.67	1.16
	MCH	4.15	4.69	1.17
	HCH	4.14	4.66	1.18
WCDMA Band 5	LCH	4.15	4.67	1.19
	MCH	4.15	4.66	1.20
	HCH	4.14	4.66	1.21

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.22	1.22
			16-QAM	RB6#0	1.08	1.21	1.23
		MCH	QPSK	RB6#0	1.07	1.22	1.24
			16-QAM	RB6#0	1.07	1.20	1.25
		HCH	QPSK	RB6#0	1.08	1.22	1.26
			16-QAM	RB6#0	1.08	1.22	1.27
	3 MHz	LCH	QPSK	RB15#0	2.68	2.89	1.28
			16-QAM	RB15#0	2.68	2.90	1.29
		MCH	QPSK	RB15#0	2.68	2.89	1.30
			16-QAM	RB15#0	2.67	2.91	1.31
		HCH	QPSK	RB15#0	2.68	2.92	1.32
			16-QAM	RB15#0	2.67	2.91	1.33
	5 MHz	LCH	QPSK	RB25#0	4.46	4.92	1.34
			16-QAM	RB25#0	4.47	4.86	1.35
		MCH	QPSK	RB25#0	4.46	4.92	1.36
			16-QAM	RB25#0	4.47	4.92	1.37
		HCH	QPSK	RB25#0	4.46	4.94	1.38
			16-QAM	RB25#0	4.47	4.92	1.39
	10 MHz	LCH	QPSK	RB50#0	8.94	9.82	1.40
			16-QAM	RB50#0	8.93	9.64	1.41
		MCH	QPSK	RB50#0	8.93	9.69	1.42
			16-QAM	RB50#0	8.93	9.71	1.43
		HCH	QPSK	RB50#0	8.94	9.67	1.44
			16-QAM	RB50#0	8.92	9.72	1.45
	15 MHz	LCH	QPSK	RB75#0	13.40	14.58	1.46
			16-QAM	RB75#0	13.40	14.64	1.47
		MCH	QPSK	RB75#0	13.38	14.53	1.48
			16-QAM	RB75#0	13.40	14.51	1.49
		HCH	QPSK	RB75#0	13.37	14.59	1.50
			16-QAM	RB75#0	13.40	14.54	1.51
	20 MHz	LCH	QPSK	RB100#0	17.85	19.14	1.52
			16-QAM	RB100#0	17.85	19.21	1.53
		MCH	QPSK	RB100#0	17.83	19.22	1.54
			16-QAM	RB100#0	17.86	19.30	1.55
		HCH	QPSK	RB100#0	17.84	19.27	1.56
			16-QAM	RB100#0	17.83	19.23	1.57

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.22	1.58
			16-QAM	RB6#0	1.08	1.22	1.59
		MCH	QPSK	RB6#0	1.07	1.22	1.60
			16-QAM	RB6#0	1.07	1.20	1.61
		HCH	QPSK	RB6#0	1.08	1.21	1.62
			16-QAM	RB6#0	1.08	1.21	1.63
	3 MHz	LCH	QPSK	RB15#0	2.68	2.91	1.64
			16-QAM	RB15#0	2.68	2.90	1.65
		MCH	QPSK	RB15#0	2.68	2.89	1.66
			16-QAM	RB15#0	2.68	2.93	1.67
		HCH	QPSK	RB15#0	2.68	2.91	1.68
			16-QAM	RB15#0	2.67	2.87	1.69
	5 MHz	LCH	QPSK	RB25#0	4.47	4.90	1.70
			16-QAM	RB25#0	4.46	4.85	1.71
		MCH	QPSK	RB25#0	4.46	4.92	1.72
			16-QAM	RB25#0	4.47	4.95	1.73
		HCH	QPSK	RB25#0	4.46	4.92	1.74
			16-QAM	RB25#0	4.46	4.93	1.75
	10 MHz	LCH	QPSK	RB50#0	8.94	9.71	1.76
			16-QAM	RB50#0	8.92	9.61	1.77
		MCH	QPSK	RB50#0	8.92	9.63	1.78
			16-QAM	RB50#0	8.94	9.76	1.79
		HCH	QPSK	RB50#0	8.94	9.75	1.80
			16-QAM	RB50#0	8.94	9.70	1.81
	15 MHz	LCH	QPSK	RB75#0	13.42	14.57	1.82
			16-QAM	RB75#0	13.40	14.54	1.83
		MCH	QPSK	RB75#0	13.38	14.41	1.84
			16-QAM	RB75#0	13.39	14.50	1.85
		HCH	QPSK	RB75#0	13.39	14.56	1.86
			16-QAM	RB75#0	13.40	14.41	1.87
	20 MHz	LCH	QPSK	RB100#0	17.86	19.18	1.88
			16-QAM	RB100#0	17.87	19.25	1.89
		MCH	QPSK	RB100#0	17.84	19.19	1.90
			16-QAM	RB100#0	17.87	19.30	1.91
		HCH	QPSK	RB100#0	17.86	19.29	1.92
			16-QAM	RB100#0	17.82	19.18	1.93

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.21	1.94
			16-QAM	RB6#0	1.07	1.24	1.95
		MCH	QPSK	RB6#0	1.07	1.22	1.96
			16-QAM	RB6#0	1.07	1.21	1.97
		HCH	QPSK	RB6#0	1.08	1.20	1.98
			16-QAM	RB6#0	1.07	1.21	1.99
	3 MHz	LCH	QPSK	RB15#0	2.68	2.90	1.100
			16-QAM	RB15#0	2.67	2.90	1.101
		MCH	QPSK	RB15#0	2.68	2.90	1.102
			16-QAM	RB15#0	2.68	2.91	1.103
		HCH	QPSK	RB15#0	2.68	2.90	1.104
			16-QAM	RB15#0	2.67	2.91	1.105
	5 MHz	LCH	QPSK	RB25#0	4.46	4.92	1.106
			16-QAM	RB25#0	4.46	4.90	1.107
		MCH	QPSK	RB25#0	4.46	4.90	1.108
			16-QAM	RB25#0	4.46	4.92	1.109
		HCH	QPSK	RB25#0	4.45	4.89	1.110
			16-QAM	RB25#0	4.46	4.92	1.111
	10 MHz	LCH	QPSK	RB50#0	8.93	9.72	1.112
			16-QAM	RB50#0	8.92	9.63	1.113
		MCH	QPSK	RB50#0	8.93	9.66	1.114
			16-QAM	RB50#0	8.94	9.70	1.115
		HCH	QPSK	RB50#0	8.91	9.74	1.116
			16-QAM	RB50#0	8.93	9.66	1.117

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 7	5 MHz	LCH	QPSK	RB25#0	4.47	4.96	1.118
			16-QAM	RB25#0	4.47	4.94	1.119
		MCH	QPSK	RB25#0	4.46	4.92	1.120
			16-QAM	RB25#0	4.46	4.96	1.121
		HCH	QPSK	RB25#0	4.46	4.96	1.122
			16-QAM	RB25#0	4.46	4.96	1.123
	10 MHz	LCH	QPSK	RB50#0	8.94	9.77	1.124
			16-QAM	RB50#0	8.93	9.64	1.125
		MCH	QPSK	RB50#0	8.93	9.70	1.126
			16-QAM	RB50#0	8.93	9.60	1.127
		HCH	QPSK	RB50#0	8.93	9.70	1.128
			16-QAM	RB50#0	8.93	9.71	1.129
	15 MHz	LCH	QPSK	RB75#0	13.39	14.56	1.130
			16-QAM	RB75#0	13.40	14.50	1.131
		MCH	QPSK	RB75#0	13.40	14.54	1.132
			16-QAM	RB75#0	13.40	14.49	1.133
		HCH	QPSK	RB75#0	13.40	14.48	1.134
			16-QAM	RB75#0	13.39	14.42	1.135
	20 MHz	LCH	QPSK	RB100#0	17.85	19.14	1.136
			16-QAM	RB100#0	17.85	19.22	1.137
		MCH	QPSK	RB100#0	17.84	19.23	1.138
			16-QAM	RB100#0	17.88	19.33	1.139
		HCH	QPSK	RB100#0	17.85	19.19	1.140
			16-QAM	RB100#0	17.82	19.19	1.141

A.4 Frequency Stability

GSM 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	10.56	±2060.5	10.40	±2091.5	14.40	±2122	Pass
	-20	10.23		10.88		12.11		
	-10	12.82		13.46		14.66		
	0	6.62		12.66		13.85		
	+10	8.39		10.14		8.01		
	+20	12.33		12.14		9.78		
	+30	9.17		9.98		15.56		
	+40	13.92		14.08		12.33		
	+50	9.40		11.98		13.27		
3.4	+25	9.20		7.39		13.50		
4.4	+25	17.34		16.14		13.66		

GSM 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	28.61	±4625.5	31.22	±4700.0	40.26	±4774.5	Pass
	-20	29.38		20.44		33.90		
	-10	31.38		15.34		32.90		
	0	33.67		39.42		39.10		
	+10	27.60		30.45		32.00		
	+20	24.96		27.96		28.22		
	+30	38.71		31.77		34.71		
	+40	34.61		33.45		33.51		
	+50	32.93		31.67		33.13		
3.4	+25	34.74		29.93		23.92		
4.4	+25	33.19		23.50		24.15		

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	8.94	±2060.5	9.40	±2091.5	9.65	±2122	Pass
	-20	6.75		6.94		7.91		
	-10	10.11		6.39		6.26		
	0	7.97		8.20		7.20		
	+10	8.01		6.84		7.01		
	+20	9.30		7.04		7.07		
	+30	9.62		8.01		9.10		
	+40	9.75		10.17		8.39		
	+50	9.85		8.46		6.01		
3.4	+25	10.30		8.65		9.23		
4.4	+25	7.81		8.43		8.46		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	22.89	±4625.5	26.93	±4700.0	27.57	±4774.5	Pass
	-20	20.31		17.37		17.66		
	-10	13.75		15.30		22.02		
	0	19.27		15.46		22.70		
	+10	15.46		24.44		20.15		
	+20	17.76		21.73		23.50		
	+30	18.37		27.67		32.22		
	+40	18.66		22.89		23.50		
	+50	25.99		28.83		23.70		
3.4	+25	30.12		22.60		20.92		
4.4	+25	21.47		22.66		19.11		

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	3.23	±2060.5	2.94	±2091.5	3.16	±2122	Pass
	-20	4.55		5.29		2.23		
	-10	6.13		2.29		1.94		
	0	5.46		1.45		-1.36		
	+10	5.13		-1.65		2.65		
	+20	8.10		1.00		0.32		
	+30	2.52		1.03		4.46		
	+40	6.39		6.81		5.52		
	+50	6.01		0.90		-1.23		
3.4	+25	3.68		-0.48		0.06		
4.4	+25	5.17		0.39		5.10		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	5.81	±4625.5	20.15	±4700.0	18.34	±4774.5	Pass
	-20	17.21		21.41		17.31		
	-10	13.37		14.27		13.85		
	0	12.30		10.20		12.56		
	+10	11.72		18.53		15.82		
	+20	8.65		17.43		18.02		
	+30	11.75		14.69		16.43		
	+40	25.02		17.43		22.37		
	+50	13.01		11.01		8.52		
3.4	+25	10.69		17.50		9.33		
4.4	+25	15.88		11.20		4.88		

WCDMA Band 2

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.4 MHz		MCH 1880 MHz		HCH 1907.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	-5.81	±4631	-4.79	±4700	-2.11	±4769	Pass
	-20	-1.40		-5.24		-0.99		
	-10	-3.40		-4.83		-1.77		
	0	-5.32		-1.90		-1.46		
	+10	-5.76		-1.78		-4.01		
	+20	-3.18		-3.62		-3.36		
	+30	-4.72		-1.60		0.54		
	+40	-3.11		-5.79		-5.24		
	+50	-6.07		0.14		-2.73		
3.4	+25	-2.95		-0.06		-0.29		
4.4	+25	-4.71		-2.74		-3.19		

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)	
3.85	-30	-6.36	±4281	-3.12	±4331	-3.55	±4381.5	Pass
	-20	-4.40		-2.74		-5.01		
	-10	-6.03		-4.91		-2.87		
	0	-3.76		-3.33		-2.46		
	+10	-6.51		-0.48		-5.82		
	+20	-3.83		-1.31		-5.81		
	+30	-7.93		0.99		-2.14		
	+40	-7.80		0.14		-1.40		
	+50	-9.62		-2.26		-3.98		
3.4	+25	-7.06		-3.83		-3.43		
4.4	+25	-3.18		-1.02		-4.12		

WCDMA Band B5

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.4 MHz		MCH 836.4 MHz		HCH 846.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.85	-30	-3.03	±2066	-1.51	±2091	-2.32	±2116.5	Pass
	-20	-2.19		-2.55		-2.78		
	-10	-3.91		-2.90		-0.46		
	0	-1.56		-4.01		-1.98		
	+10	-0.77		-1.02		-4.00		
	+20	0.42		-2.91		-3.85		
	+30	-1.08		-2.71		-0.56		
	+40	-0.77		-2.23		-2.37		
	+50	-1.97		-1.78		-0.70		
3.4	+25	-2.23		-0.98		-3.76		
4.4	+25	-2.33		-1.96		-0.97		

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	0	±4700	Pass
	-20	-3		
	-10	-0.74		
	0	0.11		
	+10	-1.12		
	+20	0.13		
	+30	-3.09		
	+40	-6.44		
	+50	-1.73		
3.4	+25	-4.61	±4700	Pass
4.4	+25	-3.82		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	0	±4700	Pass
	-20	-0.83		
	-10	-1.32		
	0	-1.04		
	+10	0.36		
	+20	-3.08		
	+30	-2.99		
	+40	-4.92		
	+50	-4.61		
3.4	+25	-3.86	±4700	Pass
4.4	+25	-3.16		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-2.33	±4331.25	Pass
	-20	-0.39		
	-10	1.34		
	0	-2.6		
	+10	-0.77		
	+20	1.1		
	+30	-0.83		
	+40	-0.47		
	+50	-2.12		
3.4	+25	-0.37	±4331.25	Pass
4.4	+25	-1.63		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-1.73	±4331.25	Pass
	-20	-1.47		
	-10	-1.33		
	0	-1.6		
	+10	-1.7		
	+20	-1.16		
	+30	-2.09		
	+40	-1.75		
	+50	-1.3		
3.4	+25	-2.75	±4331.25	Pass
4.4	+25	-1.59		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-1.59	±2091.25	Pass
	-20	-0.49		
	-10	1.65		
	0	0.39		
	+10	-0.46		
	+20	-1.06		
	+30	-0.41		
	+40	-0.44		
	+50	-0.97		
3.4	+25	1.09	±2091.25	Pass
4.4	+25	0.14		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	-0.44	±2091.25	Pass
	-20	-0.74		
	-10	-1.69		
	0	0.36		
	+10	-0.29		
	+20	-0.64		
	+30	-0.4		
	+40	-0.57		
	+50	0.93		
3.4	+25	1.07	±2091.25	Pass
4.4	+25	1.12		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	2.42	±6337.5	Pass
	-20	0.97		
	-10	3.18		
	0	4.43		
	+10	5.02		
	+20	5.06		
	+30	2.22		
	+40	2.00		
	+50	2.39		
3.4	+25	2.3		
4.4	+25	3.38		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.85	-30	1.97	±6337.5	Pass
	-20	3.03		
	-10	2.27		
	0	3.22		
	+10	6.08		
	+20	3.56		
	+30	2.42		
	+40	4.52		
	+50	3.46		
3.4	+25	4.19		
4.4	+25	2.90		

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-SZ1840111-501 Data Part 3.pdf".

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	1.4	Pass
	MCH	1.5	Pass
	HCH	1.6	Pass
EGPRS 850	LCH	1.7	Pass
	MCH	1.8	Pass
	HCH	1.9	Pass
EGPRS 1900	LCH	1.10	Pass
	MCH	1.11	Pass
	HCH	1.12	Pass
WCDMA Band 2	LCH	1.13	Pass
	MCH	1.14	Pass
	HCH	1.15	Pass
WCDMA Band 4	LCH	1.16	Pass
	MCH	1.17	Pass
	HCH	1.18	Pass
WCDMA Band 5	LCH	1.19	Pass
	MCH	1.20	Pass
	HCH	1.21	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	1.22	Pass
			16-QAM	RB1#0	1.23	Pass
		MCH	QPSK	RB1#0	1.24	Pass
			16-QAM	RB1#0	1.25	Pass
		HCH	QPSK	RB1#0	1.26	Pass
			16-QAM	RB1#0	1.27	Pass
	3 MHz	LCH	QPSK	RB1#0	1.28	Pass
			16-QAM	RB1#0	1.29	Pass
		MCH	QPSK	RB1#0	1.30	Pass
			16-QAM	RB1#0	1.31	Pass
		HCH	QPSK	RB1#0	1.32	Pass
			16-QAM	RB1#0	1.33	Pass
	5 MHz	LCH	QPSK	RB1#0	1.34	Pass
			16-QAM	RB1#0	1.35	Pass
		MCH	QPSK	RB1#0	1.36	Pass
			16-QAM	RB1#0	1.37	Pass
		HCH	QPSK	RB1#0	1.38	Pass
			16-QAM	RB1#0	1.39	Pass
	10 MHz	LCH	QPSK	RB1#0	1.40	Pass
			16-QAM	RB1#0	1.41	Pass
		MCH	QPSK	RB1#0	1.42	Pass
			16-QAM	RB1#0	1.43	Pass
		HCH	QPSK	RB1#0	1.44	Pass
			16-QAM	RB1#0	1.45	Pass
	15 MHz	LCH	QPSK	RB1#0	1.46	Pass
			16-QAM	RB1#0	1.47	Pass
		MCH	QPSK	RB1#0	1.48	Pass
			16-QAM	RB1#0	1.49	Pass
		HCH	QPSK	RB1#0	1.50	Pass
			16-QAM	RB1#0	1.51	Pass
	20 MHz	LCH	QPSK	RB1#0	1.52	Pass
			16-QAM	RB1#0	1.53	Pass
		MCH	QPSK	RB1#0	1.54	Pass
			16-QAM	RB1#0	1.55	Pass
		HCH	QPSK	RB1#0	1.56	Pass
			16-QAM	RB1#0	1.57	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	1.58	Pass
			16-QAM	RB1#0	1.59	Pass
		MCH	QPSK	RB1#0	1.60	Pass
			16-QAM	RB1#0	1.61	Pass
		HCH	QPSK	RB1#0	1.62	Pass
			16-QAM	RB1#0	1.63	Pass
	3 MHz	LCH	QPSK	RB1#0	1.64	Pass
			16-QAM	RB1#0	1.65	Pass
		MCH	QPSK	RB1#0	1.66	Pass
			16-QAM	RB1#0	1.67	Pass
		HCH	QPSK	RB1#0	1.68	Pass
			16-QAM	RB1#0	1.69	Pass
	5 MHz	LCH	QPSK	RB1#0	1.70	Pass
			16-QAM	RB1#0	1.71	Pass
		MCH	QPSK	RB1#0	1.72	Pass
			16-QAM	RB1#0	1.73	Pass
		HCH	QPSK	RB1#0	1.74	Pass
			16-QAM	RB1#0	1.75	Pass
	10 MHz	LCH	QPSK	RB1#0	1.76	Pass
			16-QAM	RB1#0	1.77	Pass
		MCH	QPSK	RB1#0	1.78	Pass
			16-QAM	RB1#0	1.79	Pass
		HCH	QPSK	RB1#0	1.80	Pass
			16-QAM	RB1#0	1.81	Pass
	15 MHz	LCH	QPSK	RB1#0	1.82	Pass
			16-QAM	RB1#0	1.83	Pass
		MCH	QPSK	RB1#0	1.84	Pass
			16-QAM	RB1#0	1.85	Pass
		HCH	QPSK	RB1#0	1.86	Pass
			16-QAM	RB1#0	1.87	Pass
	20 MHz	LCH	QPSK	RB1#0	1.88	Pass
			16-QAM	RB1#0	1.89	Pass
		MCH	QPSK	RB1#0	1.90	Pass
			16-QAM	RB1#0	1.91	Pass
		HCH	QPSK	RB1#0	1.92	Pass
			16-QAM	RB1#0	1.93	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	1.94	Pass
			16-QAM	RB1#0	1.95	Pass
		MCH	QPSK	RB1#0	1.96	Pass
			16-QAM	RB1#0	1.97	Pass
		HCH	QPSK	RB1#0	1.98	Pass
			16-QAM	RB1#0	1.99	Pass
	3 MHz	LCH	QPSK	RB1#0	1.100	Pass
			16-QAM	RB1#0	1.101	Pass
		MCH	QPSK	RB1#0	1.102	Pass
			16-QAM	RB1#0	1.103	Pass
		HCH	QPSK	RB1#0	1.104	Pass
			16-QAM	RB1#0	1.105	Pass
	5 MHz	LCH	QPSK	RB1#0	1.106	Pass
			16-QAM	RB1#0	1.107	Pass
		MCH	QPSK	RB1#0	1.108	Pass
			16-QAM	RB1#0	1.109	Pass
		HCH	QPSK	RB1#0	1.110	Pass
			16-QAM	RB1#0	1.111	Pass
	10 MHz	LCH	QPSK	RB1#0	1.112	Pass
			16-QAM	RB1#0	1.113	Pass
		MCH	QPSK	RB1#0	1.114	Pass
			16-QAM	RB1#0	1.115	Pass
		HCH	QPSK	RB1#0	1.116	Pass
			16-QAM	RB1#0	1.117	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	1.118	Pass
			16-QAM	RB1#0	1.119	Pass
		MCH	QPSK	RB1#0	1.120	Pass
			16-QAM	RB1#0	1.121	Pass
		HCH	QPSK	RB1#0	1.122	Pass
			16-QAM	RB1#0	1.123	Pass
	10 MHz	LCH	QPSK	RB1#0	1.124	Pass
			16-QAM	RB1#0	1.125	Pass
		MCH	QPSK	RB1#0	1.126	Pass
			16-QAM	RB1#0	1.127	Pass
		HCH	QPSK	RB1#0	1.128	Pass
			16-QAM	RB1#0	1.129	Pass
	15 MHz	LCH	QPSK	RB1#0	1.130	Pass
			16-QAM	RB1#0	1.131	Pass
		MCH	QPSK	RB1#0	1.132	Pass
			16-QAM	RB1#0	1.133	Pass
		HCH	QPSK	RB1#0	1.134	Pass
			16-QAM	RB1#0	1.135	Pass
	20 MHz	LCH	QPSK	RB1#0	1.136	Pass
			16-QAM	RB1#0	1.137	Pass
		MCH	QPSK	RB1#0	1.138	Pass
			16-QAM	RB1#0	1.139	Pass
		HCH	QPSK	RB1#0	1.140	Pass
			16-QAM	RB1#0	1.141	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-SZ1840111-501 Data Part 4.pdf”.

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note1}	Verdict
GSM 850	LCH	1.1	Pass
	HCH	1.2	Pass
GSM 1900	LCH	1.3	Pass
	HCH	1.4	Pass
EGPRS 850	LCH	1.5	Pass
	HCH	1.6	Pass
EGPRS 1900	LCH	1.7	Pass
	HCH	1.8	Pass
WCDMA Band 2	LCH	1.9	Pass
	HCH	1.10	Pass
WCDMA Band 4	LCH	1.11	Pass
	HCH	1.12	Pass
WCDMA Band 5	LCH	1.13	Pass
	HCH	1.14	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	1.15	Pass
				RB6#0	1.16	Pass
			16-QAM	RB1#0	1.17	Pass
				RB6#0	1.18	Pass
		HCH	QPSK	RB1#5	1.19	Pass
				RB6#0	1.20	Pass
			16-QAM	RB1#5	1.21	Pass
				RB6#0	1.22	Pass
	3 MHz	LCH	QPSK	RB1#0	1.23	Pass
				RB15#0	1.24	Pass
			16-QAM	RB1#0	1.25	Pass
				RB15#0	1.26	Pass
		HCH	QPSK	RB1#14	1.27	Pass
				RB15#0	1.28	Pass
			16-QAM	RB1#14	1.29	Pass
				RB15#0	1.30	Pass
	5 MHz	LCH	QPSK	RB1#0	1.31	Pass
				RB25#0	1.32	Pass
			16-QAM	RB1#0	1.33	Pass
				RB25#0	1.34	Pass
		HCH	QPSK	RB1#24	1.35	Pass
				RB25#0	1.36	Pass
			16-QAM	RB1#24	1.37	Pass
				RB25#0	1.38	Pass
	10 MHz	LCH	QPSK	RB1#0	1.39	Pass
				RB50#0	1.40	Pass
			16-QAM	RB1#0	1.41	Pass
				RB50#0	1.42	Pass
		HCH	QPSK	RB1#49	1.43	Pass
				RB50#0	1.44	Pass
			16-QAM	RB1#49	1.45	Pass
				RB50#0	1.46	Pass
	15 MHz	LCH	QPSK	RB1#0	1.47	Pass
				RB75#0	1.48	Pass
			16-QAM	RB1#0	1.49	Pass
				RB75#0	1.50	Pass
		HCH	QPSK	RB1#74	1.51	Pass
				RB75#0	1.52	Pass
			16-QAM	RB1#74	1.53	Pass
				RB75#0	1.54	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
	20 MHz	LCH	QPSK	RB1#0	1.55	Pass
				RB100#0	1.56	Pass
			16-QAM	RB1#0	1.57	Pass
				RB100#0	1.58	Pass
		HCH	QPSK	RB1#99	1.59	Pass
				RB100#0	1.60	Pass
			16-QAM	RB1#99	1.61	Pass
				RB100#0	1.62	Pass
Band 4	1.4 MHz	LCH	QPSK	RB1#0	1.63	Pass
				RB6#0	1.64	Pass
			16-QAM	RB1#0	1.65	Pass
				RB6#0	1.66	Pass
		HCH	QPSK	RB1#5	1.67	Pass
				RB6#0	1.68	Pass
			16-QAM	RB1#5	1.69	Pass
				RB6#0	1.70	Pass
	3 MHz	LCH	QPSK	RB1#0	1.71	Pass
				RB15#0	1.72	Pass
			16-QAM	RB1#0	1.73	Pass
				RB15#0	1.74	Pass
		HCH	QPSK	RB1#14	1.75	Pass
				RB15#0	1.76	Pass
			16-QAM	RB1#14	1.77	Pass
				RB15#0	1.78	Pass
	5 MHz	LCH	QPSK	RB1#0	1.79	Pass
				RB25#0	1.80	Pass
			16-QAM	RB1#0	1.81	Pass
				RB25#0	1.82	Pass
		HCH	QPSK	RB1#24	1.83	Pass
				RB25#0	1.84	Pass
			16-QAM	RB1#24	1.85	Pass
				RB25#0	1.86	Pass
	10 MHz	LCH	QPSK	RB1#0	1.87	Pass
				RB50#0	1.88	Pass
			16-QAM	RB1#0	1.89	Pass
				RB50#0	1.90	Pass
		HCH	QPSK	RB1#49	1.91	Pass
				RB50#0	1.92	Pass
			16-QAM	RB1#49	1.93	Pass
				RB50#0	1.94	Pass
	15 MHz	LCH	QPSK	RB1#0	1.95	Pass
				RB75#0	1.96	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
			16-QAM	RB1#0	1.97	Pass
				RB75#0	1.98	Pass
		HCH	QPSK	RB1#74	1.99	Pass
				RB75#0	1.100	Pass
			16-QAM	RB1#74	1.101	Pass
				RB75#0	1.102	Pass
	20 MHz	LCH	QPSK	RB1#0	1.103	Pass
				RB100#0	1.104	Pass
			16-QAM	RB1#0	1.105	Pass
				RB100#0	1.106	Pass
		HCH	QPSK	RB1#99	1.107	Pass
				RB100#0	1.108	Pass
			16-QAM	RB1#99	1.109	Pass
				RB100#0	1.110	Pass
Band 5	1.4 MHz	LCH	QPSK	RB1#0	1.111	Pass
				RB6#0	1.112	Pass
			16-QAM	RB1#0	1.113	Pass
				RB6#0	1.114	Pass
		HCH	QPSK	RB1#5	1.115	Pass
				RB6#0	1.116	Pass
			16-QAM	RB1#5	1.117	Pass
				RB6#0	1.118	Pass
	3 MHz	LCH	QPSK	RB1#0	1.119	Pass
				RB15#0	1.120	Pass
			16-QAM	RB1#0	1.121	Pass
				RB15#0	1.122	Pass
		HCH	QPSK	RB1#14	1.123	Pass
				RB15#0	1.124	Pass
			16-QAM	RB1#14	1.125	Pass
				RB15#0	1.126	Pass
	5 MHz	LCH	QPSK	RB1#0	1.127	Pass
				RB25#0	1.128	Pass
			16-QAM	RB1#0	1.129	Pass
				RB25#0	1.130	Pass
		HCH	QPSK	RB1#24	1.131	Pass
				RB25#0	1.132	Pass
			16-QAM	RB1#24	1.133	Pass
				RB25#0	1.134	Pass
	10 MHz	LCH	QPSK	RB1#0	1.135	Pass
				RB50#0	1.136	Pass
			16-QAM	RB1#0	1.137	Pass
				RB50#0	1.138	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
		HCH	QPSK	RB1#49	1.139	Pass
				RB50#0	1.140	Pass
16-QAM			RB1#49	1.141	Pass	
			RB50#0	1.142	Pass	
Band 7	5 MHz	LCH	QPSK	RB1#0	1.143	Pass
				RB25#0	1.144	Pass
			16-QAM	RB1#0	1.145	Pass
				RB25#0	1.146	Pass
		HCH	QPSK	RB1#24	1.147	Pass
				RB25#0	1.148	Pass
			16-QAM	RB1#24	1.149	Pass
				RB25#0	1.150	Pass
	10 MHz	LCH	QPSK	RB1#0	1.151	Pass
				RB50#0	1.152	Pass
			16-QAM	RB1#0	1.153	Pass
				RB50#0	1.154	Pass
		HCH	QPSK	RB1#49	1.155	Pass
				RB50#0	1.156	Pass
			16-QAM	RB1#49	1.157	Pass
				RB50#0	1.158	Pass
	15 MHz	LCH	QPSK	RB1#0	1.159	Pass
				RB75#0	1.160	Pass
			16-QAM	RB1#0	1.161	Pass
				RB75#0	1.162	Pass
		HCH	QPSK	RB1#74	1.163	Pass
				RB75#0	1.164	Pass
			16-QAM	RB1#74	1.165	Pass
				RB75#0	1.166	Pass
	20 MHz	LCH	QPSK	RB1#0	1.167	Pass
				RB100#0	1.168	Pass
			16-QAM	RB1#0	1.169	Pass
				RB100#0	1.170	Pass
		HCH	QPSK	RB1#99	1.171	Pass
				RB100#0	1.172	Pass
			16-QAM	RB1#99	1.173	Pass
				RB100#0	1.174	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-SZ1840111-501 Data Part 5.pdf".

GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	1.4	Pass
	MCH	1.5	Pass
	HCH	1.6	Pass
EGPRS 850	LCH	1.7	Pass
	MCH	1.8	Pass
	HCH	1.9	Pass
EGPRS 1900	LCH	1.10	Pass
	MCH	1.11	Pass
	HCH	1.12	Pass
WCDMA Band 2	LCH	1.13	Pass
	MCH	1.14	Pass
	HCH	1.15	Pass
WCDMA Band 4	LCH	1.16	Pass
	MCH	1.17	Pass
	HCH	1.18	Pass
WCDMA Band 5	LCH	1.19	Pass
	MCH	1.20	Pass
	HCH	1.21	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	1.22	Pass
	3 MHz	MCH	QPSK	RB1#0	1.23	Pass
	5 MHz	MCH	QPSK	RB1#0	1.24	Pass
	10 MHz	MCH	QPSK	RB1#0	1.25	Pass
	15 MHz	MCH	QPSK	RB1#0	1.26	Pass
	20 MHz	MCH	QPSK	RB1#0	1.27	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	1.28	Pass
	3 MHz	MCH	QPSK	RB1#0	1.29	Pass
	5 MHz	MCH	QPSK	RB1#0	1.30	Pass
	10 MHz	MCH	QPSK	RB1#0	1.31	Pass
	15 MHz	MCH	QPSK	RB1#0	1.32	Pass
	20 MHz	MCH	QPSK	RB1#0	1.33	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	1.34	Pass
	3 MHz	MCH	QPSK	RB1#0	1.35	Pass
	5 MHz	MCH	QPSK	RB1#0	1.36	Pass
	10 MHz	MCH	QPSK	RB1#0	1.37	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	1.38	Pass
	10 MHz	MCH	QPSK	RB1#0	1.39	Pass
	15 MHz	MCH	QPSK	RB1#0	1.40	Pass
	20 MHz	MCH	QPSK	RB1#0	1.41	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “BL-SZ1840111-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “BL-SZ1840111-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “BL-SZ1840111-AI.PDF”.

--END OF REPORT--