# FCC/ISED RFTESTREPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

# **TD191 LTE USB Dongle**

**ISSUED TO** JACS SOLUTIONS INC

8808 Centre Park Dr., Suite 305 Columbia, MD 21045, USA



Tested by: (Engineer) Approved by Wei Yanquan (Chief Engineer)

EUT Name:

Report No.: BL-SZ19A0286-501

TD191 LTE USB Dongle

Model Name: TD191

**JACS** 

Brand Name: Test Standard:

47 CFR Part 2 (10-1-18 Edition)

RSS-Gen (Issue 5, March 2019)

(Others refer to chapter 3.1)

FCC ID:

2AGCDJACSTD191

ISED Number: 25646-JACSTD191

Test Conclusion:

Pass

Test Date:

Oct. 21, 2019 ~ Nov. 06, 2019

Date of Issue: Dec. 06, 2019

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# **Revision History**

Version

Issue Date

**Revisions Content** 

Rev. 01 Dec. 06, 2019

Initial Issue

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# 1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

# 1.1 Identification of the Testing Laboratory

Company Name Shenzhen BALUN Technology Co., Ltd.	
Addross	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	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.
	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.
Accreditation Certificate	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.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe
Description	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 v2.5.
- (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	JACS SOLUTIONS INC	
Address	8808 Centre Park Dr., Suite 305 Columbia, MD 21045, USA	

## 2.2 Manufacturer Information

Manufacturer	JACS SOLUTIONS INC	
Address	8808 Centre Park Dr., Suite 305 Columbia, MD 21045, USA	

## 2.3 Factory Information

Factory	N/A
Address	N/A

# 2.4 General Description for Equipment under Test (EUT)

EUT Name	TD191 LTE USB Dongle	
Model Name Under Test	TD191	
Series Model Name	N/A	
Description of Model	N/A	
name differentiation	I IV/A	
Hardware Version	MBV1.0	
Software Version	TD191_JACS_V1.1.0	
Dimensions (Approx.)	N/A	
Weight (Approx.)	N/A	



## 2.5 Technical Information

All Network and Wireless connectivity for EUT	3G Network WCDMA/HSDPA/HSUPA Band 1/ 2/ 4/ 5/ 8; 4G Network FDD LTE Band 1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 14/ 17/ 20/ 66
About the Product	The equipment is TD191 LTE USB Dongle, intended for used with information technology equipment.

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

Operating Dands	WCDMA/HSDPA/HSUPA Band 2/ 4/ 5		
Operating Bands	FDD LTE Band 2/ 4/ 5/ 12/ 14/ 17/ 66		
	WCDMA	QPSK	
	HSDPA	QPSK	
Modulation Type	/HSUPA	16QAM	
		QPSK	
	LTE	16QAM	
	WCDMA/HSDF	PA/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	
TX Frequency Range	FDD LTE Band	4: 1710 MHz ~ 1755 MHz	
TX Trequency Nange	FDD LTE Band	5: 824 MHz ~ 849 MHz	
	FDD LTE Band	12: 699 MHz ~ 716 MHz	
	FDD LTE Band 14: 788 MHz ~ 798 MHz		
	FDD LTE Band 17: 704 MHz ~ 716 MHz		
	FDD LTE Band 66: 1710 MHz ~ 1780 MHz		
	WCDMA/HSDF	PA/HSUPA Band 2: 1930 MHz ~ 1990 MHz	
	WCDMA/HSDPA/HSUPA Band 4: 2110 MHz ~ 2155 MHz		
	WCDMA/HSDF	PA/HSUPA Band 5: 869 MHz ~ 894 MHz	
	FDD LTE Band	2: 1930 MHz ~ 1990 MHz	
Rx Frequency Range	FDD LTE Band	4: 2110 MHz ~ 2155 MHz	
TXT requeries range	FDD LTE Band	5: 869 MHz ~ 894 MHz	
	FDD LTE Band	12: 729 MHz ~ 746 MHz	
	FDD LTE Band	14: 758 MHz ~ 768 MHz	
	FDD LTE Band	17: 734 MHz ~ 746 MHz	
	FDD LTE Band	66: 2110 MHz ~ 2200 MHz	
	WCDMA/HSDF	PA/HSUPA Band 2: 3	
	WCDMA/HSDPA/HSUPA Band 4: 3		
	WCDMA/HSDPA/HSUPA Band 5: 3		
Power Class	FDD LTE Band 2: 3		
. 51101 51000	FDD LTE Band		
	FDD LTE Band		
	FDD LTE Band		
	FDD LTE Band	14: 3	



	FDD LTE Band 17: 3		
	FDD LTE Band 66: 3		
Antenna Type	enna Type PIFA Antenna		
	WCDMA/HSDPA/HSUPA Band 2: 1.7 dBi		
	WCDMA/HSDPA/HSUPA Band 4: 1.5 dBi		
	WCDMA/HSDPA/HSUPA Band 5: 0.5 dBi		
	FDD LTE Band 2: 1.7 dBi		
Antenna Gain	FDD LTE Band 4: 1.5 dBi		
7 interina Gain	FDD LTE Band 5: 0.5 dBi		
	FDD LTE Band 12: 0.6 dBi		
	FDD LTE Band 14: 0.7 dBi		
	FDD LTE Band 17: 0.7 dBi		
	FDD LTE Band 66: 1.5 dBi		
	WCDMA/HSDPA/HSUPA Band 2: 23.90 dBm		
	WCDMA/HSDPA/HSUPA Band 4: 23.23 dBm		
	WCDMA/HSDPA/HSUPA Band 5: 20.33 dBm		
	FDD LTE Band 2: 24.07 dBm		
The Max RF Output	FDD LTE Band 4: 24.17 dBm		
Power (EIRP/ERP)	FDD LTE Band 5: 21.06 dBm		
	FDD LTE Band 12: 22.00 dBm		
	FDD LTE Band 14: 21.05 dBm		
	FDD LTE Band 17: 21.31 dBm		
	FDD LTE Band 66: 24.29 dBm		

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



# **3 SUMMARY OF TEST RESULTS**

# 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters;
'	(10-1-18 Edition)	General Rules and Regulations
	47 CFR Part 22	
2	Subpart H	Cellular Radiotelephone Service
	(10-1-18 Edition)	
	47 CFR Part 24	
3	Subpart E	Broadband PCS
	(10-1-18 Edition)	
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
4	(10-1-18 Edition)	ivilscenarieous vvireiess Communications Services
	47 CFR Part 90	Regulations Governing Licensing and Use of Frequencies in
5	Subpart R	the 758-775 and 788-805 MHz Bands
	(10-1-18 Edition)	the 736-775 and 768-605 MHZ Dands
6	RSS-Gen Issue5	General Requirements and Information for the Certification of
	(March 2019)	Radio Apparatus
7	RSS-130 Issue2	Equipment Operating in the Frequency Bands 617-652 MHz,
	(February 2019)	663-698 MHz, 698-756 MHz and 777-787 MHz
8	RSS-132 Issue3	Cellular Telephone Systems Operating in the Bands 824-849
0	(January 2013)	MHz and 869-894 MHz
9	RSS-133 Issue6	2 GHz Personal Communications Services
9	(January 2018)	2 GHZ Fersonal Communications Services
10	RSS-139 Issue3	Advanced Wireless Services (AWS) Equipment Operating in
10	(July 2015)	the Bands 1710-1780 MHz and 2110-2180 MHz
11	RSS-140 Issue1	Equipment Operating in the Public Safety Broadband
- ' '	(April 2018)	Frequency Bands 758-768 MHz and 788-798 MHz
12	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment
12	ANOI/ HA-003-E-2010	Measurement and Performance Standards
13	KDB 971168	Measurement Guidance for Certification of Licensed Digital
13	D01 v03r01	Transmitters



## 3.2 Test Verdict

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict
1	Conducted RF Output Power	2.1046	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50 90.542(a)	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	ANNEX A.1	Pass
3	Peak to Average Radio	2.1046 24.232(d) 27.50(d)	RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53 90.209	RSS-Gen 6.7	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54 90.213	RSS-Gen 6.11 RSS-130 4.5 RSS-132 5.3 RSS-133 6.3 RSS-139 6.4 RSS-140 4.2	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53 90.543	RSS-Gen 6.13 RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-140 4.4	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53 90.543	RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-140 4.4	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	RSS-Gen 6.13 RSS-130 4.7 RSS-132 5.5 RSS-133 6.5	ANNEX A.7	Pass



No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict	
		90.543	RSS-139 6.6			
			RSS-140 4.4			
			RSS-Gen 7			
9	Receiver Spurious Emissions	N/A	RSS-132 5.6	ANNEX A.8	Pass	
			RSS-133 6.6			
10	AC Power-line Conducted	N/A	RSS-Gen 8.8	ANNEX A.9	Dana	
10	Emissions	IN/A	RSS-Gell 6.6	AININEA A.9	Pass	



# 4 GENERAL TEST CONFIGURATIONS

## 4.1 Test Environments

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

	NV (Normal Voltage)	5 V
Test Voltage of the EUT	LV (Low Voltage)	4.75 V
	HV (High Voltage)	5.25 V
	NT (Normal Temperature)	+25 °C
Test Temperature of the EUT	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+55 °C

# 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Conducted Test Sys	stem					
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	V2.1.1.38 7	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2019.02.28	2020.02.27
Wideband Radio Communication Tester	R&S	CMW 500	127794	V3.5.137	2019.06.13	2020.06.12
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.5.137	2019.02.28	2020.02.27
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2019.06.13	2020.06.12
Spectrum Analyzer	Agilent	E4440A	MY45304434	A.11.21	2019.10.30	2020.10.29
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2019.10.30	2020.10.29
Temperature Chamber	AHK	SP20	1412	N/A	2019.06.24	2020.06.23
DC Power Supply	ITECH	IT6863A	6000140106 87210020	N/A	2019.06.18	2020.06.17
Power Sensor	Agilent	E9304A H18	MY41497164	N/A	2019.10.30	2020.10.29
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



Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	N/A	N/A	N/A
Radiated Test Syste	em					
Test Software	BALUN	BL410_E	N/A	V16.921	N/A	N/A
Test Antenna- Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2018.08.22	2020.08.21
Test Antenna- Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	9120D-1600	N/A	2018.07.11	2020.07.10
Test Antenna- Horn(18-40 GHz)	A-INFO	LB- 180400KF	J211060273	N/A	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	N/A	2017.02.21	2020.02.20
Shielded Enclosure	ChangNing	CN- 130701	130703	N/A	N/A	N/A
EMI Receiver	KEYSIGHT	N9038A	MY53220118	A.14.16	2019.10.29	2020.10.28
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2019.06.13	2020.06.12
Wideband Radio Communication Tester	R&S	CMW 500	121551	V3.2.73	2019.02.28	2020.02.27



# 4.3 Test Configurations

Toot Itomo	Test Mode	Test Channel			
Test Items	rest wode	LCH	MCH	HCH	
	WCDMA Band 2	V	V	V	
	WCDMA Band 4	V	V	V	
	WCDMA Band 5	V	V	V	
Effective (lectronie) Dedicted	HSDPA Band 2	V	V	V	
Effective (Isotropic) Radiated Power	HSDPA Band 4	V	V	V	
Powei	HSDPA Band 5	V	V	V	
	HSUPA Band 2	V	V	V	
	HSUPA Band 4	V	V	V	
	HSUPA Band 5	V	V	V	
	WCDMA Band 2	V	V	V	
Peak to Average Ratio	WCDMA Band 4	V	V	V	
	WCDMA Band 5	V	V	V	
	WCDMA Band 2	V	V	V	
Occupied Bandwidth	WCDMA Band 4	V	V	V	
	WCDMA Band 5	V	V	V	
	WCDMA Band 2	V	V	V	
Frequency Stability	WCDMA Band 4	V	V	V	
	WCDMA Band 5	V	V	V	
Courieus Emission et Antonno	WCDMA Band 2	V	V	V	
Spurious Emission at Antenna Terminals	WCDMA Band 4	V	V	V	
Terminals	WCDMA Band 5	V	V	V	
	WCDMA Band 2	V		V	
Band Edge	WCDMA Band 4	V		V	
	WCDMA Band 5	٧		٧	
Field Strongth of Spurious	WCDMA Band 2	٧	V	٧	
Field Strength of Spurious  Radiation	WCDMA Band 4	V	V	V	
Raulation	WCDMA Band 5	V	V	V	
Note 1: The mark "v" means that	this configuration is chosen for	or testing.			

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
	Low Channel	9262	1852.4
WCDMA Band 2	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
	Low Channel	1312	1712.4
WCDMA Band 4	Middle Channel	1412	1732.4
	High Channel	1513	1752.6
	Low Channel	4132	826.4
WCDMA Band 5	Middle Channel	4182	836.4
	High Channel	4233	846.6



LTE		Bar	ndwid	th (Mł	Hz)		Modula	ition Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
					Effe	ctive	(Isotropic	) Radiated F	ower					
2	٧	٧	٧	٧	٧	٧	V	٧	V	٧	٧	٧	V	V
4	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V	V
5	٧	٧	٧	٧	n	n	V	٧	٧	٧	٧	٧	V	V
12	٧	٧	٧	٧	n	n	V	٧	٧	٧	٧	٧	V	V
14	n	n	V	٧	n	n	V	V	V	٧	٧	٧	V	V
17	n	n	٧	٧	n	n	V	V	٧	٧	٧	٧	V	V
66	٧	٧	V	٧	V	٧	V	V	V	٧	٧	V	V	V
						Pe	ak to Ave	rage Ratio						
2						٧	V	V	V		٧	٧	V	V
4						٧	V	V	V		٧	٧	V	V
5		-		V	n	n	V	V	V		V	V	٧	V
12		-		V	n	n	V	V	V		V	V	٧	V
14	n	n		V	n	n	V	V	V		V		V	
17	n	n		٧	n	n	V	V	V		٧	٧	V	V
66						٧	V	V	V		٧	V	V	V
			ı	T	T	0	ccupied E	Bandwidth	1		T	T	1	
2	٧	٧	٧	٧	٧	٧	V	V			٧	V	V	V
4	٧	٧	V	٧	V	V	V	V			V	V	V	V
5	٧	٧	٧	٧	n	n	V	V			٧	٧	V	V
12	٧	٧	٧	٧	n	n	V	V			٧	٧	V	V
14	n	n	٧	٧	n	n	V	V			٧	V	V	V
17	n	n	٧	٧	n	n	V	V			٧	٧	V	V
66	V	V	V	V	V	V	V	V			V	V	V	V
	ı		T	T	T	F	requency	_	I		T	T .		
2				V			V	V			V		V	
4				V			V	V			V		V	
5				V	n	n	V	V			V		V	
12				V	n	n	V	V			V		V	
14	n	n		V	n	n	V	V			V		V	
17	n	n		V	n	n	V	V			V		V	
66				۷		 	V	V Austriana T			V		V	
					·		l	Antenna To						
2	V	٧	V	V	V	V	V	V	V			V	V	V
4	V	٧	V	V	V	V	V	V	V			V	V	V
5	V	٧	V	V	n	n	V	V	V			V	V	V
12	٧	٧	V	V	n	n	V	V	V			V	V	V
14	n	n	V	٧	n	n	V	V	٧			V	V	V
17	n	n	V	V	n	n	V	V	V			V	V	V
66	V	V	V	V	V	V	V	V	V			V	V	V
0							Band I							,,
2	V	V	V	V	V	V	V	V	V		V	V		V



LTE		Bar	ndwid	th (MF	Hz)		Modula	ition Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
4	٧	٧	٧	٧	٧	٧	V	V	٧		٧	٧		٧
5	٧	٧	٧	٧	n	n	V	٧	٧		٧	٧		V
12	٧	٧	٧	٧	n	n	V	٧	٧		٧	٧		V
14	n	n	٧	٧	n	n	V	V	٧		٧	٧		V
17	n	n	٧	٧	n	n	V	٧	٧		٧	٧		V
66	<b>V</b>	٧	٧	٧	٧	٧	V	V	٧		٧	٧		V
					Field	d Stre	ngth of S	purious Rad	diation					
2	٧	٧	٧	٧	>	>	V	I	V		1		٧	
4	<b>V</b>	٧	٧	٧	٧	٧	V		٧				٧	
5	<b>V</b>	٧	٧	٧	n	n	V		٧				٧	
12	٧	٧	٧	٧	n	n	V	I	V		1		٧	
14	n	n	٧	٧	n	n	V	-	٧		1		٧	
17	n	n	٧	٧	n	n	V		٧		1		٧	
66	٧	٧	٧	٧	٧	٧	٧		٧				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)
		1.4	18607	1850.7
		3	18615	1851.5
	Low Pango	5	18625	1852.5
	Low Range	10	18650	1855
		15	18675	1857.5
		20	18700	1860
LTE Band 2	Middle Range	1.4/3/5/10/15/20	18900	1880
		1.4	19193	1909.3
		3	19185	1908.5
	High Dange	5	19175	1907.5
	High Range	10	19150	1905
		15	19125	1902.5
		20	19100	1900
		1.4	19957	1710.7
		3	19965	1711.5
	Low Range	5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
LTE Band 4	Middle Range	1.4/3/5/10/15/20	20175	1732.5
		1.4	20393	1754.3
		3	20385	1753.5
	High Range	5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
		1.4	20407	824.7
	Low Range	3	20415	825.5
	Low Range	5	20425	826.5
		10	20450	829
LTE Band 5	Middle Range	1.4/3/5/10	20525	836.5
		1.4	20643	848.3
	High Range	3	20635	847.5
	riigiritarige	5	20625	846.5
		10	20600	844
		1.4	23017	699.7
	Low Range	3	23025	700.5
	Low Mange	5	23035	701.5
LTE Band 12		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
	- Ingil Kalige	3	23165	714.5



Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		5	23155	713.5
		10	23130	711
	Low Pango	5	23305	790.5
	Low Range	10		
LTE Band 14	Middle Range	5/10	23330	793
	∐igh Dongo	5	23355	795.5
	High Range	10		
	Low Dongo	5	23755	706.5
	Low Range	10	23780	709
LTE Band 17	Middle Range	5/10	23790	710
	Lligh Dongo	5	23825	713.5
	High Range	10	23800	711
		1.4	131979	1710.7
		3	131987	1711.5
	Low Dongs	5	131997	1712.5
	Low Range	10	132022	1715
		15	132047	1717.5
		20	132072	1720
LTE Band 66	Middle Range	1.4/3/5/10/15/20	132322	1745
		1.4	132665,	1779.3
		3	132657	1778.5
	High Dongs	5	132647	1777.5
	High Range	10	132622	1775
		15	132597	1772.5
		20	132572	1770

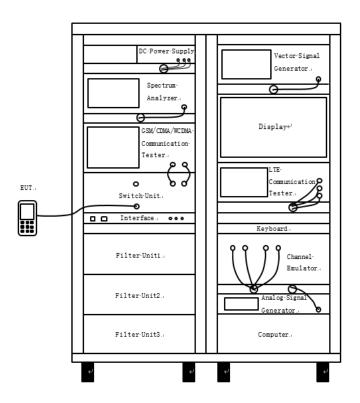
Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Receiver Spurious Emissions	LTE Band 2		V	
AC Power-line Conducted Emissions	LTE Band 2		V	

Note 1: The mark "v" means that this configuration is the worst test mode for Receiver Spurious Emissions and AC Power-line Conducted Emissions measurement.



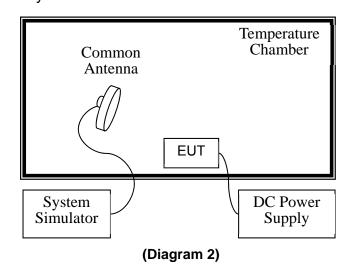
## 4.4 Test Setup

#### 4.4.1 For Antenna Port Test



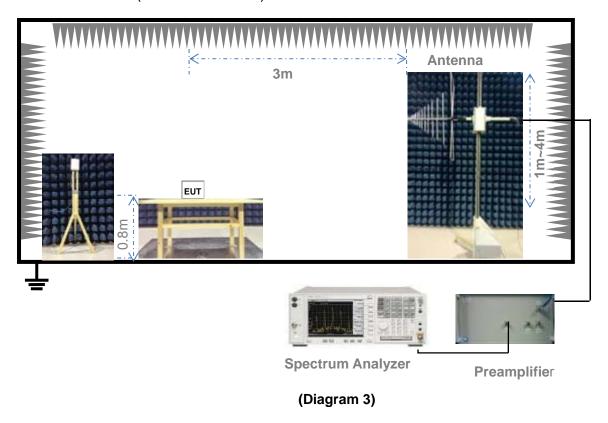
(Diagram 1)

## 4.4.2 For Frequency Stability Test

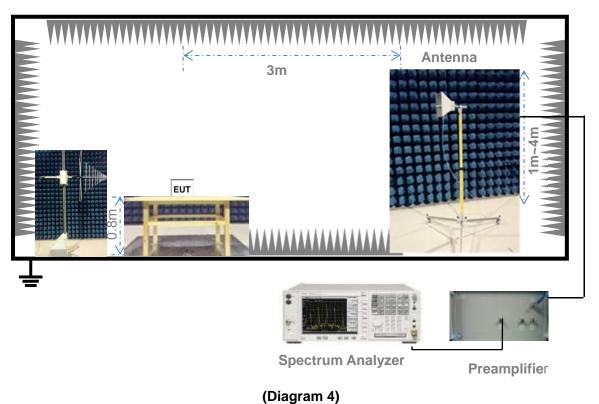




## 4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



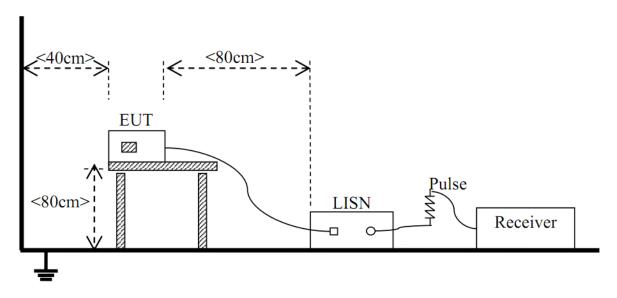
## 4.4.4 For Radiated Test (Above 1 GHz)



20/ 132



## 4.4.5 For AC Power-line Conducted Emissions



(Diagram 5)



## 5 TEST ITEMS

## 5.1 Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 90.542(a)

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

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

According to FCC section 27.50(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.

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

RSS-Gen § 6.12 & RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-140 § 4.3

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

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

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

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

According to RSS-140 § 4.3, the equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.



#### 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 Measu**rement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

#### where:

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

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

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

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

#### For example:

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

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 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:

ERP/EIRP = P<sub>Meas</sub> + GT - LC

#### where:

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

P<sub>Meas</sub> = 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<sub>Meas</sub> value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

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

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

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

#### where:

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

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

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

#### For example:

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

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

#### 5.1.4 Test Result

Please refer to ANNEX A.1.



## 5.2 Peak to Average Ratio

#### 5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-140 § 4.3

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 ≥ 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<sub>Pk</sub>. Use one of the applicable procedures presented 4.2 to measure the total average power and record as P<sub>Avg</sub>. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

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

#### 5.2.4 Test Result

Please refer to ANNEX A.2.



## 5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

RSS-Gen § 6.7

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

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

#### 5.3.2 Test Setup

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

#### 5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

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

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency.



The 99 % power bandwidth is the difference between these two frequencies.

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

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

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

- i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
- j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

#### 5.3.4 Test Result

Please refer to ANNEX A.3.



## 5.4 Frequency Stability

#### 5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213

RSS-Gen § 6.11 & RSS-130 § 4.5 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4 & RSS-140 § 4.2

FCC § 2.1055 & RSS-Gen § 6.11

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

- (1) The temperature is varied from -30 $^{\circ}$ C to +50 $^{\circ}$ 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)
(IVII IZ)		(ррііі)	(ррііі)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

#### FCC § 24.235

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



#### FCC § 27.54

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

FCC § 90.213

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

RSS-130 § 4.5

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

RSS-132 § 5.3

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

RSS-133 § 6.3

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

RSS-139 § 6.4

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

RSS-140 § 4.2

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

#### 5.4.2 Test Setup

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

#### 5.4.3 Test Procedure

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



5. Change supply voltage, and repeat measurement until extreme voltage is reached.

#### 5.4.4 Test Result

Please refer to ANNEX A.4.



## 5.5 Spurious Emission at Antenna Terminals

#### 5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 90.543

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-140 § 4.4

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

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

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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

#### FCC § 27.53(c)

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

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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

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



#### FCC § 27.53(f)

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

#### FCC § 27.53(g)

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

#### FCC § 27.53(h) (1) & RSS-139 § 6.6

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

#### FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.



#### RSS-130 § 4.7

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

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

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
  - (i) 76 + 10 log10 p (watts), dB, for base and fixed equipment and
  - (ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

#### RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

76 + 10 log (p), dB in a 6.25 kHz band for fixed and base station equipment

65 + 10 log (p), dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: 43 + 10 log (p), dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

#### 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 500hm; 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.
- 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(c) & 27.53(g) & 27.53(h) & 90.543

RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-140 § 4.4

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

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

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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

#### FCC § 27.53(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) & RSS-139 § 6.6

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

## FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

## RSS-130 § 4.7

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

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

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



- (i) 76 + 10 log10 p (watts), dB, for base and fixed equipment and
- (ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

## RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

- 76 + 10 log (p), dB in a 6.25 kHz band for fixed and base station equipment
- 65 + 10 log (p), dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: 43 + 10 log (p), dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

## 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 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- 3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. The center of the spectrum analyzer was set to block edge frequency.
- 5. Band edge are tested with 1%\*cBW (RBW), and sweep point number referred to following formula.

Sweep point number = 2\*Span/RBW



#### VBW=3RBW

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–806 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

10\*log(10 kHz / 6.25 kHz) = 2.04 dBLimit Line = -35 dBm + 2.04 dB = -32.96dBm

## 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(c) & 27.53(f) & 27.53(g) & 27.53(h) & 90.543

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-140 § 4.4

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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

#### FCC § 27.53(c)

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

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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

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

#### FCC § 27.53(f)

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



## FCC § 27.53(g)

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

## FCC § 27.53(h) (1) & RSS-139 § 6.6

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

## FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

## RSS-130 § 4.7

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



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

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
  - (i) 76 + 10 log10 p (watts), dB, for base and fixed equipment and
  - (ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

## RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

- 76 + 10 log (p), dB in a 6.25 kHz band for fixed and base station equipment
- 65 + 10 log (p), dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: 43 + 10 log (p), dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

## 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  $\sim$  849 MHz) or horn antenna (1 850  $\sim$  1 910 MHz) connected to a signal generator.
- 11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- 14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

## Final measurement calculation as below:

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

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

#### where:

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

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



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

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

## For example:

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

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

## 5.7.4 Test Result

Please refer to ANNEX A.7.



## 5.8 Receiver Spurious Emissions

## 5.8.1 Limit

RSS-Gen § 7.3/4 & RSS-132 § 5.6 & RSS-133 § 6.6

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

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

#### **Receiver Radiated Limits**

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

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

Table 2 - Receiver radiated emissions limits

Frequency (MHz)	Field Strength (μV/m at 3 metres)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

#### **Receiver Conducted Limits**

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

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

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



## 5.8.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

## 5.8.3 Test Procedure

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

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

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

## 5.8.4 Test Result

Please refer to ANNEX A.8.



## 5.9 AC Power-line Conducted Emissions

## 5.9.1 Limit

RSS-Gen § 8.8

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

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

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

Table 3 –AC power-line conducted emissions limits

Frequency	Conducte (dBµ	
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56 <sup>Note1</sup>	56 to 46 Note1
0.5 - 5	56	46
5 - 30	60	50

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

## 5.9.2 Test Setup

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



## 5.9.3 Test Procedure

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

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

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

#### 5.9.4 Test Result

Please refer to ANNEX A.9.



# **ANNEX A TEST RESULTS**

# A.1 Transmitter Radiated Power (EIRP/ERP)

# WCDMA Mode Test Data

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA	LCH	21.96	1.7	23.66	0.232	2.00	Pass
Band 2	MCH	22.20	1.7	23.90	0.245	2.00	Pass
Dallu Z	HCH	21.91	1.7	23.61	0.230	2.00	Pass
HCDDA	LCH	21.29	1.7	22.99	0.199	2.00	Pass
HSDPA Band 2	MCH	21.33	1.7	23.03	0.201	2.00	Pass
Dallu Z	HCH	20.75	1.7	22.45	0.176	2.00	Pass
HSUPA	LCH	21.19	1.7	22.89	0.195	2.00	Pass
Band 2	MCH	21.11	1.7	22.81	0.191	2.00	Pass
Dailu Z	HCH	20.93	1.7	22.63	0.183	2.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA	LCH	21.44	1.5	22.94	0.197	1.00	Pass
Band 4	MCH	21.66	1.5	23.16	0.207	1.00	Pass
Danu 4	HCH	21.73	1.5	23.23	0.210	1.00	Pass
HSDPA	LCH	20.71	1.5	22.21	0.166	1.00	Pass
Band 4	MCH	20.92	1.5	22.42	0.175	1.00	Pass
Danu 4	HCH	20.85	1.5	22.35	0.172	1.00	Pass
LICLIDA	LCH	20.79	1.5	22.29	0.169	1.00	Pass
HSUPA Band 4	MCH	20.92	1.5	22.42	0.175	1.00	Pass
Dallu 4	HCH	21.08	1.5	22.58	0.181	1.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
WCDMA	LCH	21.81	0.5	-1.65	20.16	0.104	7.00	Pass
Band 5	MCH	21.93	0.5	-1.65	20.28	0.107	7.00	Pass
Danu 5	HCH	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
HSDPA	LCH	20.84	0.5	-1.65	19.19	0.083	7.00	Pass
Band 5	MCH	20.96	0.5	-1.65	19.31	0.085	7.00	Pass
Danu 3	HCH	20.90	0.5	-1.65	19.25	0.084	7.00	Pass
ЦСПВА	LCH	20.67	0.5	-1.65	19.02	0.080	7.00	Pass
HSUPA Band 5	MCH	20.89	0.5	-1.65	19.24	0.084	7.00	Pass
Dailu 5	HCH	20.89	0.5	-1.65	19.24	0.084	7.00	Pass



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

Note 2: ERP/EIRP = PMeas + GT - LC

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

PMeas = measured transmitter output power or PSD, in dBm or dBW;

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

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

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

## **HSDPA Conducted Output Power**

				Cond	ucted Outpu	ıt Average I	Power		
Band	Channel	Sub	test1	Sub	test2	Subt	est3	Subt	est4
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
LICDDA	LCH	21.20	0.132	21.29	0.135	20.77	0.119	20.84	0.121
HSDPA	MCH	21.32	0.136	21.33	0.136	20.89	0.123	20.91	0.123
Band 2	HCH	20.75	0.119	20.70	0.117	20.35	0.108	20.42	0.110
LICDDA	LCH	20.66	0.116	20.71	0.118	20.28	0.107	20.24	0.106
HSDPA Band 4	MCH	20.87	0.122	20.92	0.124	20.41	0.110	20.51	0.112
Danu 4	HCH	20.76	0.119	20.85	0.122	20.34	0.108	20.35	0.108
LICDDA	LCH	20.76	0.119	20.84	0.121	20.30	0.107	20.39	0.109
HSDPA Band 5	MCH	20.96	0.125	20.95	0.124	20.56	0.114	20.55	0.114
Danu 3	HCH	20.85	0.122	20.90	0.123	20.41	0.110	20.42	0.110

#### HSUPA Conducted Output Power

11001 A 0011	SOPA Conducted Output Power												
			Conducted Output Average Power										
Band	Channel	Subt	est1	Sub	test2	Subt	est3	Sub	test4	Sub	test5		
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
LICLIDA	LCH	20.62	0.115	20.22	0.105	19.83	0.096	20.37	0.109	21.19	0.132		
HSUPA Band 2	MCH	20.98	0.125	20.37	0.109	20.18	0.104	19.97	0.099	21.11	0.129		
Danu Z	HCH	20.84	0.121	19.69	0.093	19.87	0.097	19.97	0.099	20.93	0.124		
LICLIDA	LCH	20.58	0.114	19.41	0.087	19.19	0.083	19.71	0.094	20.79	0.120		
HSUPA	MCH	20.87	0.122	19.71	0.094	19.40	0.087	19.93	0.098	20.92	0.124		
Band 4	HCH	21.08	0.128	19.81	0.096	20.32	0.108	20.07	0.102	20.94	0.124		
HSUPA	LCH	20.66	0.116	19.39	0.087	19.52	0.090	20.24	0.106	20.67	0.117		
Band 5	MCH	20.43	0.110	19.43	0.088	19.68	0.093	20.24	0.106	20.89	0.123		
Dailu 3	HCH	20.66	0.116	19.43	0.088	19.50	0.089	20.42	0.110	20.89	0.123		



LTE Mode Test Data

LTE Mode	iesi Dala			O a made cata at					
Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	LTE BAND2					
			RB1#0	22.17	1.7	23.87	0.244	2.00	Pass
			RB1#3	22.17	1.7	23.87	0.244	2.00	Pass
			RB1#5	22.09	1.7	23.79	0.239	2.00	Pass
		QPSK	RB3#0	22.14	1.7	23.84	0.242	2.00	Pass
			RB3#2	22.16	1.7	23.86	0.243	2.00	Pass
			RB3#3	22.09	1.7	23.79	0.239	2.00	Pass
	LCH		RB6#0	20.99	1.7	22.69	0.186	2.00	Pass
	LON		RB1#0	20.75	1.7	22.45	0.176	2.00	Pass
			RB1#3	20.78	1.7	22.48	0.177	2.00	Pass
			RB1#5	20.72	1.7	22.42	0.175	2.00	Pass
		16-QAM	RB3#0	20.76	1.7	22.46	0.176	2.00	Pass
			RB3#2	20.86	1.7	22.56	0.180	2.00	Pass
			RB3#3	20.9	1.7	22.60	0.182	2.00	Pass
			RB6#0	19.84	1.7	21.54	0.143	2.00	Pass
			RB1#0	21.9	1.7	23.60	0.229	2.00	Pass
			RB1#3	21.86	1.7	23.56	0.227	2.00	Pass
			RB1#5	21.77	1.7	23.47	0.222	2.00	Pass
		QPSK	RB3#0	21.85	1.7	23.55	0.226	2.00	Pass
1.4 MH			RB3#2	21.86	1.7	23.56	0.227	2.00	Pass
			RB3#3	21.78	1.7	23.48	0.223	2.00	Pass
	MCH		RB6#0	20.85	1.7	22.55	0.180	2.00	Pass
			RB1#0	20.95	1.7	22.65	0.184	2.00	Pass
			RB1#3	20.93	1.7	22.63	0.183	2.00	Pass
			RB1#5	20.85	1.7	22.55	0.180	2.00	Pass
		16-QAM	RB3#0	20.7	1.7	22.40	0.174	2.00	Pass
			RB3#2	20.69	1.7	22.39	0.173	2.00	Pass
			RB3#3	20.6	1.7	22.30	0.170	2.00	Pass
			RB6#0	19.48	1.7	21.18	0.131	2.00	Pass
			RB1#0	21.85	1.7	23.55	0.226	2.00	Pass
			RB1#3	22.35	1.7	24.05	0.254	2.00	Pass
			RB1#5	22.15	1.7	23.85	0.243	2.00	Pass
		QPSK	RB3#0	22.08	1.7	23.78	0.239	2.00	Pass
	НСН		RB3#2	22.27	1.7	23.97	0.249	2.00	Pass
			RB3#3	22.15	1.7	23.85	0.243	2.00	Pass
			RB6#0	20.87	1.7	22.57	0.181	2.00	Pass
			RB1#0	20.87	1.7	22.57	0.181	2.00	Pass
		16-QAM	RB1#3	21.07	1.7	22.77	0.189	2.00	Pass
			RB1#5	21.04	1.7	22.74	0.188	2.00	Pass



Test	Test	Test	Test RB	Conducted Output AV	Antenna	EIRP	EIRP	Limit	Marabat
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
				(dBm)	(dBi)				
			I	TE BAND2					
			RB3#0	21.43	1.7	23.13	0.206	2.00	Pass
			RB3#2	21.36	1.7	23.06	0.202	2.00	Pass
			RB3#3	21.34	1.7	23.04	0.201	2.00	Pass
			RB6#0	19.96	1.7	21.66	0.147	2.00	Pass
			RB1#0	22.18	1.7	23.88	0.244	2.00	Pass
			RB1#7	22.01	1.7	23.71	0.235	2.00	Pass
			RB1#14	21.87	1.7	23.57	0.228	2.00	Pass
		QPSK	RB8#0	21.06	1.7	22.76	0.189	2.00	Pass
			RB8#4	21.08	1.7	22.78	0.190	2.00	Pass
			RB8#7	21	1.7	22.70	0.186	2.00	Pass
	LCH		RB15#0	21.01	1.7	22.71	0.187	2.00	Pass
	LOIT		RB1#0	20.97	1.7	22.67	0.185	2.00	Pass
			RB1#7	21	1.7	22.70	0.186	2.00	Pass
		16-QAM	RB1#14	20.96	1.7	22.66	0.185	2.00	Pass
			RB8#0	20.27	1.7	21.97	0.157	2.00	Pass
			RB8#4	20.27	1.7	21.97	0.157	2.00	Pass
			RB8#7	20.22	1.7	21.92	0.156	2.00	Pass
			RB15#0	19.91	1.7	21.61	0.145	2.00	Pass
			RB1#0	21.85	1.7	23.55	0.226	2.00	Pass
			RB1#7	21.89	1.7	23.59	0.229	2.00	Pass
			RB1#14	21.86	1.7	23.56	0.227	2.00	Pass
3 MH		QPSK	RB8#0	20.85	1.7	22.55	0.180	2.00	Pass
			RB8#4	20.83	1.7	22.53	0.179	2.00	Pass
			RB8#7	20.9	1.7	22.60	0.182	2.00	Pass
	MCH		RB15#0	20.91	1.7	22.61	0.182	2.00	Pass
			RB1#0	21.46	1.7	23.16	0.207	2.00	Pass
			RB1#7	21.52	1.7	23.22	0.210	2.00	Pass
			RB1#14	21.51	1.7	23.21	0.209	2.00	Pass
		16-QAM	RB8#0	19.82	1.7	21.52	0.142	2.00	Pass
			RB8#4	19.8	1.7	21.50	0.141	2.00	Pass
			RB8#7	19.84	1.7	21.54	0.143	2.00	Pass
			RB15#0	19.81	1.7	21.51	0.142	2.00	Pass
			RB1#0	22.03	1.7	23.73	0.236	2.00	Pass
			RB1#7	22.18	1.7	23.88	0.244	2.00	Pass
		_	RB1#14	21.83	1.7	23.53	0.225	2.00	Pass
	HCH	QPSK	RB8#0	20.98	1.7	22.68	0.185	2.00	Pass
			RB8#4	20.91	1.7	22.61	0.182	2.00	Pass
			RB8#7	20.89	1.7	22.59	0.182	2.00	Pass
			RB15#0	20.99	1.7	22.69	0.186	2.00	Pass



Test	Test	Test	Test RB	Conducted Output AV	Antenna Gain	EIRP	EIRP	Limit	Verdict
BW	Channel	Mode	(Size#Offset)	Power (dBm)	(dBi)	(dBm)	(W)	(W)	
				LTE BAND2					
			RB1#0	21.01	1.7	22.71	0.187	2.00	Pass
			RB1#7	21.07	1.7	22.77	0.189	2.00	Pass
			RB1#14	20.91	1.7	22.61	0.182	2.00	Pass
		16-QAM	RB8#0	19.91	1.7	21.61	0.145	2.00	Pass
			RB8#4	19.85	1.7	21.55	0.143	2.00	Pass
			RB8#7	19.75	1.7	21.45	0.140	2.00	Pass
			RB15#0	19.82	1.7	21.52	0.142	2.00	Pass
			RB1#0	21.85	1.7	23.55	0.226	2.00	Pass
			RB1#13	21.89	1.7	23.59	0.229	2.00	Pass
			RB1#24	21.91	1.7	23.61	0.230	2.00	Pass
		QPSK	RB12#0	21.03	1.7	22.73	0.187	2.00	Pass
			RB12#6	21.03	1.7	22.73	0.187	2.00	Pass
			RB12#13	20.97	1.7	22.67	0.185	2.00	Pass
	I CH	LCH	RB25#0	20.99	1.7	22.69	0.186	2.00	Pass
	LOH		RB1#0	20.8	1.7	22.50	0.178	2.00	Pass
			RB1#13	20.75	1.7	22.45	0.176	2.00	Pass
			RB1#24	20.65	1.7	22.35	0.172	2.00	Pass
		16-QAM	RB12#0	19.71	1.7	21.41	0.138	2.00	Pass
			RB12#6	19.81	1.7	21.51	0.142	2.00	Pass
			RB12#13	19.75	1.7	21.45	0.140	2.00	Pass
			RB25#0	19.82	1.7	21.52	0.142	2.00	Pass
			RB1#0	21.59	1.7	23.29	0.213	2.00	Pass
5 MHz			RB1#13	21.88	1.7	23.58	0.228	2.00	Pass
O WITTE			RB1#24	21.7	1.7	23.40	0.219	2.00	Pass
		QPSK	RB12#0	20.82	1.7	22.52	0.179	2.00	Pass
			RB12#6	20.78	1.7	22.48	0.177	2.00	Pass
			RB12#13	20.79	1.7	22.49	0.177	2.00	Pass
	MCH		RB25#0	20.85	1.7	22.55	0.180	2.00	Pass
			RB1#0	20.82	1.7	22.52	0.179	2.00	Pass
			RB1#13	20.79	1.7	22.49	0.177	2.00	Pass
			RB1#24	20.43	1.7	22.13	0.163	2.00	Pass
		16-QAM	RB12#0	19.74	1.7	21.44	0.139	2.00	Pass
			RB12#6	19.7	1.7	21.40	0.138	2.00	Pass
			RB12#13	19.72	1.7	21.42	0.139	2.00	Pass
			RB25#0	19.69	1.7	21.39	0.138	2.00	Pass
			RB1#0	21.64	1.7	23.34	0.216	2.00	Pass
	HCH	QPSK	RB1#13	21.61	1.7	23.31	0.214	2.00	Pass
			RB1#24	21.56	1.7	23.26	0.212	2.00	Pass
			RB12#0	20.92	1.7	22.62	0.183	2.00	Pass



Test	Test	Test	Test RB	Conducted Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
			(0.20.10.10)	(dBm)	(dBi)	(32)	(11)	(11)	
			l	TE BAND2					
			RB12#6	20.82	1.7	22.52	0.179	2.00	Pass
			RB12#13	20.79	1.7	22.49	0.177	2.00	Pass
			RB25#0	20.95	1.7	22.65	0.184	2.00	Pass
			RB1#0	21	1.7	22.70	0.186	2.00	Pass
			RB1#13	20.67	1.7	22.37	0.173	2.00	Pass
			RB1#24	20.2	1.7	21.90	0.155	2.00	Pass
		16-QAM	RB12#0	19.88	1.7	21.58	0.144	2.00	Pass
			RB12#6	19.78	1.7	21.48	0.141	2.00	Pass
			RB12#13	19.58	1.7	21.28	0.134	2.00	Pass
			RB25#0	19.74	1.7	21.44	0.139	2.00	Pass
			RB1#0	22.06	1.7	23.76	0.238	2.00	Pass
			RB1#25	22.24	1.7	23.94	0.248	2.00	Pass
			RB1#49	21.92	1.7	23.62	0.230	2.00	Pass
		QPSK	RB25#0	20.98	1.7	22.68	0.185	2.00	Pass
			RB25#13	21.03	1.7	22.73	0.187	2.00	Pass
			RB25#25	20.91	1.7	22.61	0.182	2.00	Pass
	LCH		RB50#0	20.89	1.7	22.59	0.182	2.00	Pass
	2011		RB1#0	20.97	1.7	22.67	0.185	2.00	Pass
			RB1#25	21.64	1.7	23.34	0.216	2.00	Pass
			RB1#49	20.86	1.7	22.56	0.180	2.00	Pass
		16-QAM	RB25#0	19.8	1.7	21.50	0.141	2.00	Pass
			RB25#13	19.94	1.7	21.64	0.146	2.00	Pass
			RB25#25	19.62	1.7	21.32	0.136	2.00	Pass
			RB50#0	19.69	1.7	21.39	0.138	2.00	Pass
10 MHz			RB1#0	21.81	1.7	23.51	0.224	2.00	Pass
			RB1#25	22.37	1.7	24.07	0.255	2.00	Pass
			RB1#49	21.79	1.7	23.49	0.223	2.00	Pass
		QPSK	RB25#0	20.86	1.7	22.56	0.180	2.00	Pass
			RB25#13	20.9	1.7	22.60	0.182	2.00	Pass
			RB25#25	20.83	1.7	22.53	0.179	2.00	Pass
	MCH		RB50#0	20.85	1.7	22.55	0.180	2.00	Pass
			RB1#0	20.95	1.7	22.65	0.184	2.00	Pass
			RB1#25	20.59	1.7	22.29	0.169	2.00	Pass
			RB1#49	20.13	1.7	21.83	0.152	2.00	Pass
		16-QAM	RB25#0	19.7	1.7	21.40	0.138	2.00	Pass
			RB25#13	20.05	1.7	21.75	0.150	2.00	Pass
			RB25#25	19.67	1.7	21.37	0.137	2.00	Pass
			RB50#0	19.7	1.7	21.40	0.138	2.00	Pass
	HCH	QPSK	RB1#0	22.13	1.7	23.83	0.242	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND2					
			RB1#25	22.23	1.7	23.93	0.247	2.00	Pass
			RB1#49	21.78	1.7	23.48	0.223	2.00	Pass
			RB25#0	20.86	1.7	22.56	0.180	2.00	Pass
			RB25#13	20.97	1.7	22.67	0.185	2.00	Pass
			RB25#25	20.84	1.7	22.54	0.179	2.00	Pass
			RB50#0	20.96	1.7	22.66	0.185	2.00	Pass
			RB1#0	20.92	1.7	22.62	0.183	2.00	Pass
			RB1#25	21.01	1.7	22.71	0.187	2.00	Pass
			RB1#49	20.54	1.7	22.24	0.167	2.00	Pass
		16-QAM	RB25#0	19.94	1.7	21.64	0.146	2.00	Pass
			RB25#13	20.05	1.7	21.75	0.150	2.00	Pass
			RB25#25	19.8	1.7	21.50	0.141	2.00	Pass
			RB50#0	19.66	1.7	21.36	0.137	2.00	Pass
			RB1#0	21.97	1.7	23.67	0.233	2.00	Pass
			RB1#38	22.04	1.7	23.74	0.237	2.00	Pass
			RB1#74	21.8	1.7	23.50	0.224	2.00	Pass
		QPSK	RB36#0	20.94	1.7	22.64	0.184	2.00	Pass
			RB36#19	20.95	1.7	22.65	0.184	2.00	Pass
			RB36#39	20.79	1.7	22.49	0.177	2.00	Pass
	LCH		RB75#0	20.85	1.7	22.55	0.180	2.00	Pass
	LOIT		RB1#0	20.96	1.7	22.66	0.185	2.00	Pass
			RB1#38	21.57	1.7	23.27	0.212	2.00	Pass
			RB1#74	20.72	1.7	22.42	0.175	2.00	Pass
		16-QAM	RB36#0	19.93	1.7	21.63	0.146	2.00	Pass
			RB36#19	19.85	1.7	21.55	0.143	2.00	Pass
15 MHz			RB36#39	19.67	1.7	21.37	0.137	2.00	Pass
13 11112			RB75#0	19.78	1.7	21.48	0.141	2.00	Pass
			RB1#0	21.91	1.7	23.61	0.230	2.00	Pass
			RB1#38	22.06	1.7	23.76	0.238	2.00	Pass
			RB1#74	21.72	1.7	23.42	0.220	2.00	Pass
		QPSK	RB36#0	20.94	1.7	22.64	0.184	2.00	Pass
			RB36#19	20.94	1.7	22.64	0.184	2.00	Pass
	MCH		RB36#39	20.77	1.7	22.47	0.177	2.00	Pass
			RB75#0	20.85	1.7	22.55	0.180	2.00	Pass
			RB1#0	20.98	1.7	22.68	0.185	2.00	Pass
			RB1#38	20.9	1.7	22.60	0.182	2.00	Pass
		16-QAM	RB1#74	20.35	1.7	22.05	0.160	2.00	Pass
			RB36#0	19.87	1.7	21.57	0.144	2.00	Pass
			RB36#19	19.89	1.7	21.59	0.144	2.00	Pass



Test	Test	Test	Test RB	Conducted Output AV	Antenna	EIRP	EIRP	Limit	Verdict
BW	Channel	Mode	(Size#Offset)	Power	Gain (dBi)	(dBm)	(W)	(W)	verdict
				(dBm)	(dDI)				
	T	T		TE BAND2			T		
			RB36#39	19.69	1.7	21.39	0.138	2.00	Pass
			RB75#0	19.79	1.7	21.49	0.141	2.00	Pass
			RB1#0	21.57	1.7	23.27	0.212	2.00	Pass
			RB1#38	21.77	1.7	23.47	0.222	2.00	Pass
		QPSK	RB1#74	21.73	1.7	23.43	0.220	2.00	Pass
			RB36#0	20.87	1.7	22.57	0.181	2.00	Pass
			RB36#19	20.92	1.7	22.62	0.183	2.00	Pass
			RB36#39	20.85	1.7	22.55	0.180	2.00	Pass
	НСН		RB75#0	20.87	1.7	22.57	0.181	2.00	Pass
			RB1#0	21.46	1.7	23.16	0.207	2.00	Pass
			RB1#38	21.37	1.7	23.07	0.203	2.00	Pass
		16-QAM	RB1#74	21.16	1.7	22.86	0.193	2.00	Pass
			RB36#0	19.81	1.7	21.51	0.142	2.00	Pass
			RB36#19	19.66	1.7	21.36	0.137	2.00	Pass
			RB36#39	19.61	1.7	21.31	0.135	2.00	Pass
			RB75#0	19.77	1.7	21.47	0.140	2.00	Pass
		QPSK	RB1#0	21.74	1.7	23.44	0.221	2.00	Pass
			RB1#50	22.28	1.7	23.98	0.250	2.00	Pass
			RB1#99	21.55	1.7	23.25	0.211	2.00	Pass
			RB50#0	20.97	1.7	22.67	0.185	2.00	Pass
			RB50#25	20.93	1.7	22.63	0.183	2.00	Pass
			RB50#50	20.78	1.7	22.48	0.177	2.00	Pass
	LCH		RB100#0	20.87	1.7	22.57	0.181	2.00	Pass
			RB1#0	21.31	1.7	23.01	0.200	2.00	Pass
			RB1#50	21.31	1.7	23.01	0.200	2.00	Pass
		40.0414	RB1#99	20.25	1.7	21.95	0.157	2.00	Pass
00.1411		16-QAM	RB50#0	19.9	1.7	21.60	0.145	2.00	Pass
20 MHz			RB50#25	19.95	1.7	21.65	0.146	2.00	Pass
			RB50#50	19.81	1.7	21.51	0.142	2.00	Pass
			RB100#0	19.82	1.7	21.52	0.142	2.00	Pass
			RB1#0	22.09	1.7	23.79	0.239	2.00	Pass
			RB1#50	22.34	1.7	24.04	0.254	2.00	Pass
		ODOK	RB1#99	22.05	1.7	23.75	0.237	2.00	Pass
	MOLL	QPSK	RB50#0	20.95	1.7	22.65	0.184	2.00	Pass
	MCH		RB50#25	20.91	1.7	22.61	0.182	2.00	Pass
			RB50#50	20.84	1.7	22.54	0.179	2.00	Pass
			RB100#0	20.88	1.7	22.58	0.181	2.00	Pass
		16-QAM	RB1#0	20.8	1.7	22.50	0.178	2.00	Pass
		16-QAM	RB1#50	20.8	1.7	22.50	0.178	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			I	TE BAND2					
			RB1#99	20.17	1.7	21.87	0.154	2.00	Pass
			RB50#0	19.79	1.7	21.49	0.141	2.00	Pass
		RB50#25	19.95	1.7	21.65	0.146	2.00	Pass	
		RB50#50	19.69	1.7	21.39	0.138	2.00	Pass	
		RB100#0	19.79	1.7	21.49	0.141	2.00	Pass	
			RB1#0	21.93	1.7	23.63	0.231	2.00	Pass
			RB1#50	22.11	1.7	23.81	0.240	2.00	Pass
			RB1#99	21.59	1.7	23.29	0.213	2.00	Pass
		QPSK	RB50#0	20.86	1.7	22.56	0.180	2.00	Pass
			RB50#25	20.89	1.7	22.59	0.182	2.00	Pass
			RB50#50	20.8	1.7	22.50	0.178	2.00	Pass
	HCH		RB100#0	20.84	1.7	22.54	0.179	2.00	Pass
	ПСП		RB1#0	20.6	1.7	22.30	0.170	2.00	Pass
			RB1#50	20.71	1.7	22.41	0.174	2.00	Pass
			RB1#99	20.66	1.7	22.36	0.172	2.00	Pass
	16-QAM	16-QAM	RB50#0	19.62	1.7	21.32	0.136	2.00	Pass
		RB50#25	19.74	1.7	21.44	0.139	2.00	Pass	
			RB50#50	19.33	1.7	21.03	0.127	2.00	Pass
			RB100#0	19.63	1.7	21.33	0.136	2.00	Pass



Test	Test	Test	Test RB	Conducted Output AV	Antenna Gain	EIRP	EIRP	Limit	Verdict
BW	Channel	Mode	(Size#Offset)	Power	(dBi)	(dBm)	(W)	(W)	Verdict
				(dBm)	(42.)				
		T		LTE BAND4					
			RB1#0	22.5	1.5	24.00	0.251	1.00	Pass
			RB1#3	22.52	1.5	24.02	0.252	1.00	Pass
			RB1#5	22.47	1.5	23.97	0.249	1.00	Pass
		QPSK	RB3#0	22.36	1.5	23.86	0.243	1.00	Pass
			RB3#2	22.39	1.5	23.89	0.245	1.00	Pass
			RB3#3	22.34	1.5	23.84	0.242	1.00	Pass
	LCH		RB6#0	21.32	1.5	22.82	0.191	1.00	Pass
			RB1#0	21.04	1.5	22.54	0.179	1.00	Pass
			RB1#3	20.99	1.5	22.49	0.177	1.00	Pass
			RB1#5	20.94	1.5	22.44	0.175	1.00	Pass
		16-QAM	RB3#0	21.07	1.5	22.57	0.181	1.00	Pass
			RB3#2	21.11	1.5	22.61	0.182	1.00	Pass
			RB3#3	21.08	1.5	22.58	0.181	1.00	Pass
			RB6#0	20.1	1.5	21.60	0.145	1.00	Pass
		QPSK	RB1#0	21.9	1.5	23.40	0.219	1.00	Pass
			RB1#3	22.03	1.5	23.53	0.225	1.00	Pass
			RB1#5	21.99	1.5	23.49	0.223	1.00	Pass
			RB3#0	22.04	1.5	23.54	0.226	1.00	Pass
4 4 5 41 1			RB3#2	22.2	1.5	23.70	0.234	1.00	Pass
1.4 MH			RB3#3	22.15	1.5	23.65	0.232	1.00	Pass
	MCH		RB6#0	21.09	1.5	22.59	0.182	1.00	Pass
			RB1#0	21.25	1.5	22.75	0.188	1.00	Pass
			RB1#3	21.24	1.5	22.74	0.188	1.00	Pass
		40 0 4 4	RB1#5	21.2	1.5	22.70	0.186	1.00	Pass
		16-QAM	RB3#0	20.99	1.5	22.49	0.177	1.00	Pass
			RB3#2	21.04	1.5	22.54	0.179	1.00	Pass
			RB3#3	21.01	1.5	22.51	0.178	1.00	Pass
			RB6#0	19.91 21.88	1.5	21.41	0.138	1.00	Pass
			RB1#0		1.5	23.38	0.218	1.00	Pass
			RB1#3	22.02	1.5	23.52	0.225	1.00	Pass
		QPSK	RB1#5 RB3#0	21.94 22.06	1.5 1.5	23.44	0.221	1.00	Pass Pass
		W C S N	RB3#0 RB3#2	22.06	1.5	23.56	0.227	1.00	Pass
	HCH		RB3#3	22.11	1.5	23.56	0.230	1.00	Pass
	ПОП		RB6#0	21.11	1.5	22.61	0.227	1.00	Pass
			RB0#0 RB1#0	20.98	1.5	22.48	0.102	1.00	Pass
			RB1#3	21.04	1.5	22.40	0.177	1.00	Pass
		16-QAM —	RB1#5	21.04	1.5	22.54	0.179	1.00	Pass
			RB3#0	21.41	1.5	22.91	0.178	1.00	Pass
			KD3#U	Z1.41	1.0	22.91	0.195	1.00	Fa55



Test	Test	Test	Test RB	Conducted Output AV	Antenna Gain	EIRP	EIRP	Limit	Verdict
BW	Channel	Mode	(Size#Offset)	Power	(dBi)	(dBm)	(W)	(W)	
				(dBm) _TE BAND4					
			RB3#2	21.54	1.5	23.04	0.201	1.00	Pass
			RB3#3	21.4	1.5	22.90	0.195	1.00	Pass
			RB6#0	20.43	1.5	21.93	0.156	1.00	Pass
			RB1#0	22.45	1.5	23.95	0.248	1.00	Pass
			RB1#7	22.49	1.5	23.99	0.251	1.00	Pass
			RB1#14	22.38	1.5	23.88	0.244	1.00	Pass
		QPSK	RB8#0	21.35	1.5	22.85	0.193	1.00	Pass
			RB8#4	21.38	1.5	22.88	0.194	1.00	Pass
			RB8#7	21.31	1.5	22.81	0.191	1.00	Pass
	1.04		RB15#0	21.41	1.5	22.91	0.195	1.00	Pass
	LCH		RB1#0	21.14	1.5	22.64	0.184	1.00	Pass
			RB1#7	20.9	1.5	22.40	0.174	1.00	Pass
			RB1#14	21.17	1.5	22.67	0.185	1.00	Pass
		16-QAM	RB8#0	20.79	1.5	22.29	0.169	1.00	Pass
			RB8#4	20.54	1.5	22.04	0.160	1.00	Pass
			RB8#7	20.5	1.5	22.00	0.158	1.00	Pass
			RB15#0	20.36	1.5	21.86	0.153	1.00	Pass
			RB1#0	21.92	1.5	23.42	0.220	1.00	Pass
			RB1#7	21.88	1.5	23.38	0.218	1.00	Pass
			RB1#14	21.89	1.5	23.39	0.218	1.00	Pass
3 MH		QPSK	RB8#0	21.15	1.5	22.65	0.184	1.00	Pass
J IVII I			RB8#4	21.21	1.5	22.71	0.187	1.00	Pass
			RB8#7	21.16	1.5	22.66	0.185	1.00	Pass
	MCH		RB15#0	21.14	1.5	22.64	0.184	1.00	Pass
	IVIOIT		RB1#0	21.19	1.5	22.69	0.186	1.00	Pass
			RB1#7	21.2	1.5	22.70	0.186	1.00	Pass
			RB1#14	21.19	1.5	22.69	0.186	1.00	Pass
		16-QAM	RB8#0	20.03	1.5	21.53	0.142	1.00	Pass
			RB8#4	19.96	1.5	21.46	0.140	1.00	Pass
			RB8#7	20.2	1.5	21.70	0.148	1.00	Pass
			RB15#0	20.17	1.5	21.67	0.147	1.00	Pass
			RB1#0	22.03	1.5	23.53	0.225	1.00	Pass
			RB1#7	22.07	1.5	23.57	0.228	1.00	Pass
			RB1#14	22.08	1.5	23.58	0.228	1.00	Pass
	HCH	QPSK	RB8#0	20.97	1.5	22.47	0.177	1.00	Pass
			RB8#4	21.02	1.5	22.52	0.179	1.00	Pass
			RB8#7	20.98	1.5	22.48	0.177	1.00	Pass
		40.0	RB15#0	20.98	1.5	22.48	0.177	1.00	Pass
		16-QAM	RB1#0	21.08	1.5	22.58	0.181	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				TE BAND4					
			RB1#7	21	1.5	22.50	0.178	1.00	Pass
			RB1#14	21.05	1.5	22.55	0.180	1.00	Pass
			RB8#0	19.75	1.5	21.25	0.133	1.00	Pass
			RB8#4	19.8	1.5	21.30	0.135	1.00	Pass
			RB8#7	19.78	1.5	21.28	0.134	1.00	Pass
			RB15#0	19.78	1.5	21.28	0.134	1.00	Pass
			RB1#0	22.16	1.5	23.66	0.232	1.00	Pass
			RB1#13	22.23	1.5	23.73	0.236	1.00	Pass
			RB1#24	22.15	1.5	23.65	0.232	1.00	Pass
		QPSK	RB12#0	21.28	1.5	22.78	0.190	1.00	Pass
			RB12#6	21.28	1.5	22.78	0.190	1.00	Pass
			RB12#13	21.26	1.5	22.76	0.189	1.00	Pass
	1.011		RB25#0	21.31	1.5	22.81	0.191	1.00	Pass
	LCH	16-QAM	RB1#0	21.23	1.5	22.73	0.187	1.00	Pass
			RB1#13	21.32	1.5	22.82	0.191	1.00	Pass
			RB1#24	21.28	1.5	22.78	0.190	1.00	Pass
			RB12#0	20.34	1.5	21.84	0.153	1.00	Pass
			RB12#6	20.35	1.5	21.85	0.153	1.00	Pass
			RB12#13	20.33	1.5	21.83	0.152	1.00	Pass
			RB25#0	20.44	1.5	21.94	0.156	1.00	Pass
			RB1#0	21.98	1.5	23.48	0.223	1.00	Pass
			RB1#13	22.12	1.5	23.62	0.230	1.00	Pass
5 MHz			RB1#24	21.83	1.5	23.33	0.215	1.00	Pass
		QPSK	RB12#0	21.08	1.5	22.58	0.181	1.00	Pass
			RB12#6	21.17	1.5	22.67	0.185	1.00	Pass
			RB12#13	21.08	1.5	22.58	0.181	1.00	Pass
	MCH		RB25#0	21.08	1.5	22.58	0.181	1.00	Pass
	Wiori		RB1#0	21.18	1.5	22.68	0.185	1.00	Pass
			RB1#13	21.22	1.5	22.72	0.187	1.00	Pass
			RB1#24	21.13	1.5	22.63	0.183	1.00	Pass
		16-QAM	RB12#0	20.11	1.5	21.61	0.145	1.00	Pass
			RB12#6	20.11	1.5	21.61	0.145	1.00	Pass
			RB12#13	20.04	1.5	21.54	0.143	1.00	Pass
			RB25#0	19.97	1.5	21.47	0.140	1.00	Pass
			RB1#0	22.09	1.5	23.59	0.229	1.00	Pass
			RB1#13	22.28	1.5	23.78	0.239	1.00	Pass
	HCH	QPSK	RB1#24	22.23	1.5	23.73	0.236	1.00	Pass
			RB12#0	21.14	1.5	22.64	0.184	1.00	Pass
			RB12#6	21.18	1.5	22.68	0.185	1.00	Pass



Test BW	Test Channel	Test Test RB Mode (Size#Offset		Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				TE BAND4					
			RB12#13	21.17	1.5	22.67	0.185	1.00	Pass
			RB25#0	21.14	1.5	22.64	0.184	1.00	Pass
			RB1#0	20.67	1.5	22.17	0.165	1.00	Pass
			RB1#13	20.58	1.5	22.08	0.161	1.00	Pass
			RB1#24	20.52	1.5	22.02	0.159	1.00	Pass
		16-QAM	RB12#0	19.93	1.5	21.43	0.139	1.00	Pass
			RB12#6	20.18	1.5	21.68	0.147	1.00	Pass
			RB12#13	20.06	1.5	21.56	0.143	1.00	Pass
			RB25#0	20.05	1.5	21.55	0.143	1.00	Pass
			RB1#0	22.28	1.5	23.78	0.239	1.00	Pass
			RB1#25	22.47	1.5	23.97	0.249	1.00	Pass
			RB1#49	22.31	1.5	23.81	0.240	1.00	Pass
		QPSK	RB25#0	21.33	1.5	22.83	0.192	1.00	Pass
			RB25#13	21.42	1.5	22.92	0.196	1.00	Pass
			RB25#25	21.35	1.5	22.85	0.193	1.00	Pass
	LCH		RB50#0	21.4	1.5	22.90	0.195	1.00	Pass
	LOIT		RB1#0	21.24	1.5	22.74	0.188	1.00	Pass
		16-QAM	RB1#25	22.03	1.5	23.53	0.225	1.00	Pass
			RB1#49	21.3	1.5	22.80	0.191	1.00	Pass
			RB25#0	20.5	1.5	22.00	0.158	1.00	Pass
			RB25#13	20.45	1.5	21.95	0.157	1.00	Pass
			RB25#25	20.29	1.5	21.79	0.151	1.00	Pass
			RB50#0	20.35	1.5	21.85	0.153	1.00	Pass
10 MHz			RB1#0	22.01	1.5	23.51	0.224	1.00	Pass
10 10112			RB1#25	22.57	1.5	24.07	0.255	1.00	Pass
			RB1#49	21.98	1.5	23.48	0.223	1.00	Pass
		QPSK	RB25#0	21.07	1.5	22.57	0.181	1.00	Pass
			RB25#13	21.15	1.5	22.65	0.184	1.00	Pass
			RB25#25	21.06	1.5	22.56	0.180	1.00	Pass
	MCH		RB50#0	21.12	1.5	22.62	0.183	1.00	Pass
			RB1#0	21.22	1.5	22.72	0.187	1.00	Pass
			RB1#25	21.19	1.5	22.69	0.186	1.00	Pass
			RB1#49	20.44	1.5	21.94	0.156	1.00	Pass
		16-QAM	RB25#0	20.19	1.5	21.69	0.148	1.00	Pass
			RB25#13	20.35	1.5	21.85	0.153	1.00	Pass
			RB25#25	20.35	1.5	21.85	0.153	1.00	Pass
			RB50#0	20.13	1.5	21.63	0.146	1.00	Pass
	HCH	QPSK	RB1#0	22.28	1.5	23.78	0.239	1.00	Pass
		QPSK -	RB1#25	22.38	1.5	23.88	0.244	1.00	Pass



Test BW	Test Channel	Test Test RB Mode (Size#Offset)		Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND4					
			RB1#49	21.98	1.5	23.48	0.223	1.00	Pass
			RB25#0	21.24	1.5	22.74	0.188	1.00	Pass
			RB25#13	21.19	1.5	22.69	0.186	1.00	Pass
			RB25#25	21.12	1.5	22.62	0.183	1.00	Pass
			RB50#0	21.22	1.5	22.72	0.187	1.00	Pass
			RB1#0	21.35	1.5	22.85	0.193	1.00	Pass
			RB1#25	21.32	1.5	22.82	0.191	1.00	Pass
			RB1#49	20.82	1.5	22.32	0.171	1.00	Pass
		16-QAM	RB25#0	20.17	1.5	21.67	0.147	1.00	Pass
			RB25#13	20.41	1.5	21.91	0.155	1.00	Pass
			RB25#25	20.23	1.5	21.73	0.149	1.00	Pass
			RB50#0	20.2	1.5	21.70	0.148	1.00	Pass
			RB1#0	22.25	1.5	23.75	0.237	1.00	Pass
		QPSK	RB1#38	22.38	1.5	23.88	0.244	1.00	Pass
			RB1#74	22.29	1.5	23.79	0.239	1.00	Pass
			RB36#0	21.42	1.5	22.92	0.196	1.00	Pass
	LCH		RB36#19	21.42	1.5	22.92	0.196	1.00	Pass
			RB36#39	21.32	1.5	22.82	0.191	1.00	Pass
			RB75#0	21.36	1.5	22.86	0.193	1.00	Pass
			RB1#0	21.33	1.5	22.83	0.192	1.00	Pass
			RB1#38	21.94	1.5	23.44	0.221	1.00	Pass
			RB1#74	21.24	1.5	22.74	0.188	1.00	Pass
		16-QAM	RB36#0	20.34	1.5	21.84	0.153	1.00	Pass
			RB36#19	20.44	1.5	21.94	0.156	1.00	Pass
			RB36#39	20.25	1.5	21.75	0.150	1.00	Pass
15 MHz			RB75#0	20.41	1.5	21.91	0.155	1.00	Pass
			RB1#0	22.17	1.5	23.67	0.233	1.00	Pass
			RB1#38	22.35	1.5	23.85	0.243	1.00	Pass
			RB1#74	21.94	1.5	23.44	0.221	1.00	Pass
		QPSK	RB36#0	21.14	1.5	22.64	0.184	1.00	Pass
			RB36#19	21.22	1.5	22.72	0.187	1.00	Pass
			RB36#39	21.07	1.5	22.57	0.181	1.00	Pass
	MCH		RB75#0	21.17	1.5	22.67	0.185	1.00	Pass
			RB1#0	21.25	1.5	22.75	0.188	1.00	Pass
			RB1#38	21.15	1.5	22.65	0.184	1.00	Pass
		16-QAM	RB1#74	20.59	1.5	22.09	0.162	1.00	Pass
		16-QAM —	RB36#0	20.16	1.5	21.66	0.147	1.00	Pass
			RB36#19	20.26	1.5	21.76	0.150	1.00	Pass
			RB36#39	20.11	1.5	21.61	0.145	1.00	Pass



Test BW	Test Channel	Test Test RB Mode (Size#Offset)		Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			I	TE BAND4					
			RB75#0	20.11	1.5	21.61	0.145	1.00	Pass
			RB1#0	22.32	1.5	23.82	0.241	1.00	Pass
			RB1#38	22.29	1.5	23.79	0.239	1.00	Pass
			RB1#74	21.94	1.5	23.44	0.221	1.00	Pass
		QPSK	RB36#0	21.3	1.5	22.80	0.191	1.00	Pass
			RB36#19	21.23	1.5	22.73	0.187	1.00	Pass
			RB36#39	21.13	1.5	22.63	0.183	1.00	Pass
	HCH		RB75#0	21.27	1.5	22.77	0.189	1.00	Pass
	11011		RB1#0	21.98	1.5	23.48	0.223	1.00	Pass
		16-QAM	RB1#38	22.09	1.5	23.59	0.229	1.00	Pass
			RB1#74	21.65	1.5	23.15	0.207	1.00	Pass
			RB36#0	20.39	1.5	21.89	0.155	1.00	Pass
			RB36#19	20.25	1.5	21.75	0.150	1.00	Pass
			RB36#39	20.14	1.5	21.64	0.146	1.00	Pass
			RB75#0	20.32	1.5	21.82	0.152	1.00	Pass
			RB1#0	22.05	1.5	23.55	0.226	1.00	Pass
			RB1#50	22.67	1.5	24.17	0.261	1.00	Pass
		QPSK	RB1#99	21.94	1.5	23.44	0.221	1.00	Pass
			RB50#0	21.33	1.5	22.83	0.192	1.00	Pass
			RB50#25	21.37	1.5	22.87	0.194	1.00	Pass
			RB50#50	21.19	1.5	22.69	0.186	1.00	Pass
	LCH		RB100#0	21.31	1.5	22.81	0.191	1.00	Pass
	LOTT		RB1#0	21.62	1.5	23.12	0.205	1.00	Pass
			RB1#50	21.48	1.5	22.98	0.199	1.00	Pass
			RB1#99	20.65	1.5	22.15	0.164	1.00	Pass
		16-QAM	RB50#0	20.39	1.5	21.89	0.155	1.00	Pass
20 MHz			RB50#25	20.54	1.5	22.04	0.160	1.00	Pass
			RB50#50	20.17	1.5	21.67	0.147	1.00	Pass
			RB100#0	20.31	1.5	21.81	0.152	1.00	Pass
			RB1#0	22.38	1.5	23.88	0.244	1.00	Pass
			RB1#50	22.56	1.5	24.06	0.255	1.00	Pass
			RB1#99	22.22	1.5	23.72	0.236	1.00	Pass
		QPSK	RB50#0	21.16	1.5	22.66	0.185	1.00	Pass
	MCH		RB50#25	21.26	1.5	22.76	0.189	1.00	Pass
			RB50#50	21.2	1.5	22.70	0.186	1.00	Pass
			RB100#0	21.15	1.5	22.65	0.184	1.00	Pass
		16-QAM	RB1#0	21.24	1.5	22.74	0.188	1.00	Pass
			RB1#50	21.15	1.5	22.65	0.184	1.00	Pass
			RB1#99	20.9	1.5	22.40	0.174	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			I	TE BAND4					
			RB50#0	20.15	1.5	21.65	0.146	1.00	Pass
			RB50#25	20.4	1.5	21.90	0.155	1.00	Pass
			RB50#50	20.12	1.5	21.62	0.145	1.00	Pass
			RB100#0	20.1	1.5	21.60	0.145	1.00	Pass
			RB1#0	22.15	1.5	23.65	0.232	1.00	Pass
		QPSK	RB1#50	22.54	1.5	24.04	0.254	1.00	Pass
			RB1#99	22.02	1.5	23.52	0.225	1.00	Pass
			RB50#0	21.35	1.5	22.85	0.193	1.00	Pass
			RB50#25	21.25	1.5	22.75	0.188	1.00	Pass
			RB50#50	21.11	1.5	22.61	0.182	1.00	Pass
	HCH		RB100#0	21.3	1.5	22.80	0.191	1.00	Pass
	ПСП		RB1#0	21.21	1.5	22.71	0.187	1.00	Pass
			RB1#50	21.13	1.5	22.63	0.183	1.00	Pass
			RB1#99	20.97	1.5	22.47	0.177	1.00	Pass
		16-QAM	RB50#0	20.39	1.5	21.89	0.155	1.00	Pass
			RB50#25	20.29	1.5	21.79	0.151	1.00	Pass
		RB50#50	20.05	1.5	21.55	0.143	1.00	Pass	
			RB100#0	20.21	1.5	21.71	0.148	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				,	AND5					
			RB1#0	22.18	0.5	-1.65	20.53	0.113	7.00	Pass
			RB1#3	22.22	0.5	-1.65	20.57	0.114	7.00	Pass
			RB1#5	22.23	0.5	-1.65	20.58	0.114	7.00	Pass
		QPSK	RB3#0	22.07	0.5	-1.65	20.42	0.110	7.00	Pass
			RB3#2	22.17	0.5	-1.65	20.52	0.113	7.00	Pass
			RB3#3	22.16	0.5	-1.65	20.51	0.112	7.00	Pass
	LCH		RB6#0	21.17	0.5	-1.65	19.52	0.090	7.00	Pass
	LON		RB1#0	21.17	0.5	-1.65	19.52	0.090	7.00	Pass
			RB1#3	21.05	0.5	-1.65	19.40	0.087	7.00	Pass
		16-	RB1#5	21.08	0.5	-1.65	19.43	0.088	7.00	Pass
			RB3#0	20.75	0.5	-1.65	19.10	0.081	7.00	Pass
		QAM	RB3#2	20.87	0.5	-1.65	19.22	0.084	7.00	Pass
			RB3#3	20.87	0.5	-1.65	19.22	0.084	7.00	Pass
			RB6#0	20.17	0.5	-1.65	18.52	0.071	7.00	Pass
			RB1#0	22.04	0.5	-1.65	20.39	0.109	7.00	Pass
			RB1#3	22.16	0.5	-1.65	20.51	0.112	7.00	Pass
			RB1#5	22.1	0.5	-1.65	20.45	0.111	7.00	Pass
		QPSK	RB3#0	22.08	0.5	-1.65	20.43	0.110	7.00	Pass
1.4			RB3#2	22.23	0.5	-1.65	20.58	0.114	7.00	Pass
MHz			RB3#3	22.26	0.5	-1.65	20.61	0.115	7.00	Pass
11112	MCH		RB6#0	21.29	0.5	-1.65	19.64	0.092	7.00	Pass
	WIGHT		RB1#0	21.51	0.5	-1.65	19.86	0.097	7.00	Pass
			RB1#3	21.42	0.5	-1.65	19.77	0.095	7.00	Pass
		16-	RB1#5	21.32	0.5	-1.65	19.67	0.093	7.00	Pass
		QAM	RB3#0	20.98	0.5	-1.65	19.33	0.086	7.00	Pass
		Q,	RB3#2	21.16	0.5	-1.65	19.51	0.089	7.00	Pass
			RB3#3	21.03	0.5	-1.65	19.38	0.087	7.00	Pass
			RB6#0	19.98	0.5	-1.65	18.33	0.068	7.00	Pass
			RB1#0	22.41	0.5	-1.65	20.76	0.119	7.00	Pass
			RB1#3	22.23	0.5	-1.65	20.58	0.114	7.00	Pass
			RB1#5	22.16	0.5	-1.65	20.51	0.112	7.00	Pass
		QPSK	RB3#0	22.42	0.5	-1.65	20.77	0.119	7.00	Pass
			RB3#2	22.36	0.5	-1.65	20.71	0.118	7.00	Pass
	HCH		RB3#3	22.34	0.5	-1.65	20.69	0.117	7.00	Pass
			RB6#0	21.3	0.5	-1.65	19.65	0.092	7.00	Pass
			RB1#0	21.39	0.5	-1.65	19.74	0.094	7.00	Pass
		16-	RB1#3	21.44	0.5	-1.65	19.79	0.095	7.00	Pass
		QAM	RB1#5	21.39	0.5	-1.65	19.74	0.094	7.00	Pass
			RB3#0	21.54	0.5	-1.65	19.89	0.097	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB3#2	21.49	0.5	-1.65	19.84	0.096	7.00	Pass
			RB3#3	21.39	0.5	-1.65	19.74	0.094	7.00	Pass
			RB6#0	20.23	0.5	-1.65	18.58	0.072	7.00	Pass
			RB1#0	21.95	0.5	-1.65	20.30	0.107	7.00	Pass
			RB1#7	22.23	0.5	-1.65	20.58	0.114	7.00	Pass
			RB1#14	22.29	0.5	-1.65	20.64	0.116	7.00	Pass
		QPSK	RB8#0	21.07	0.5	-1.65	19.42	0.087	7.00	Pass
			RB8#4	21.15	0.5	-1.65	19.50	0.089	7.00	Pass
	LCH		RB8#7	21.17	0.5	-1.65	19.52	0.090	7.00	Pass
			RB15#0	21.06	0.5	-1.65	19.41	0.087	7.00	Pass
			RB1#0	21.14	0.5	-1.65	19.49	0.089	7.00	Pass
		16- QAM	RB1#7	21.06	0.5	-1.65	19.41	0.087	7.00	Pass
			RB1#14	21.05	0.5	-1.65	19.40	0.087	7.00	Pass
			RB8#0	20.1	0.5	-1.65	18.45	0.070	7.00	Pass
			RB8#4	20.15	0.5	-1.65	18.50	0.071	7.00	Pass
			RB8#7	20.16	0.5	-1.65	18.51	0.071	7.00	Pass
			RB15#0	20.05	0.5	-1.65	18.40	0.069	7.00	Pass
			RB1#0	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
			RB1#7	22.2	0.5	-1.65	20.55	0.114	7.00	Pass
			RB1#14	22.14	0.5	-1.65	20.49	0.112	7.00	Pass
3 MHz		QPSK	RB8#0	21.35	0.5	-1.65	19.70	0.093	7.00	Pass
O WII IZ			RB8#4	21.26	0.5	-1.65	19.61	0.091	7.00	Pass
			RB8#7	21.21	0.5	-1.65	19.56	0.090	7.00	Pass
	MCH		RB15#0	21.22	0.5	-1.65	19.57	0.091	7.00	Pass
			RB1#0	21.24	0.5	-1.65	19.59	0.091	7.00	Pass
			RB1#7	21.23	0.5	-1.65	19.58	0.091	7.00	Pass
		16-	RB1#14	21.27	0.5	-1.65	19.62	0.092	7.00	Pass
		QAM	RB8#0	20.28	0.5	-1.65	18.63	0.073	7.00	Pass
			RB8#4	20.5	0.5	-1.65	18.85	0.077	7.00	Pass
			RB8#7	20.44	0.5	-1.65	18.79	0.076	7.00	Pass
			RB15#0	20.34	0.5	-1.65	18.69	0.074	7.00	Pass
			RB1#0	22.31	0.5	-1.65	20.66	0.116	7.00	Pass
			RB1#7	22.44	0.5	-1.65	20.79	0.120	7.00	Pass
			RB1#14	22.26	0.5	-1.65	20.61	0.115	7.00	Pass
	HCH	QPSK	RB8#0	21.32	0.5	-1.65	19.67	0.093	7.00	Pass
			RB8#4	21.32	0.5	-1.65	19.67	0.093	7.00	Pass
			RB8#7	21.31	0.5	-1.65	19.66	0.092	7.00	Pass
			RB15#0	21.42	0.5	-1.65	19.77	0.095	7.00	Pass
			RB1#0	21.46	0.5	-1.65	19.81	0.096	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB1#7	21.49	0.5	-1.65	19.84	0.096	7.00	Pass
		16-	RB1#14	21.42	0.5	-1.65	19.77	0.095	7.00	Pass
		QAM	RB8#0	20.4	0.5	-1.65	18.75	0.075	7.00	Pass
			RB8#4	20.37	0.5	-1.65	18.72	0.074	7.00	Pass
			RB8#7	20.2	0.5	-1.65	18.55	0.072	7.00	Pass
			RB15#0	20.4	0.5	-1.65	18.75	0.075	7.00	Pass
			RB1#0	21.92	0.5	-1.65	20.27	0.106	7.00	Pass
			RB1#13	21.87	0.5	-1.65	20.22	0.105	7.00	Pass
			RB1#24	21.79	0.5	-1.65	20.14	0.103	7.00	Pass
		QPSK	RB12#0	20.95	0.5	-1.65	19.30	0.085	7.00	Pass
			RB12#6	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
			RB12#13	21.2	0.5	-1.65	19.55	0.090	7.00	Pass
	LCH		RB25#0	21.02	0.5	-1.65	19.37	0.086	7.00	Pass
	LOIT		RB1#0	20.57	0.5	-1.65	18.92	0.078	7.00	Pass
		16- QAM	RB1#13	20.74	0.5	-1.65	19.09	0.081	7.00	Pass
			RB1#24	20.71	0.5	-1.65	19.06	0.081	7.00	Pass
			RB12#0	19.86	0.5	-1.65	18.21	0.066	7.00	Pass
			RB12#6	20.13	0.5	-1.65	18.48	0.070	7.00	Pass
			RB12#13	20.22	0.5	-1.65	18.57	0.072	7.00	Pass
			RB25#0	20.09	0.5	-1.65	18.44	0.070	7.00	Pass
			RB1#0	21.8	0.5	-1.65	20.15	0.104	7.00	Pass
			RB1#13	22	0.5	-1.65	20.35	0.108	7.00	Pass
5 MHz			RB1#24	21.75	0.5	-1.65	20.10	0.102	7.00	Pass
		QPSK	RB12#0	21.18	0.5	-1.65	19.53	0.090	7.00	Pass
			RB12#6	21.28	0.5	-1.65	19.63	0.092	7.00	Pass
			RB12#13	21.17	0.5	-1.65	19.52	0.090	7.00	Pass
	MCH		RB25#0	21.22	0.5	-1.65	19.57	0.091	7.00	Pass
	WOII		RB1#0	21.2	0.5	-1.65	19.55	0.090	7.00	Pass
			RB1#13	21.33	0.5	-1.65	19.68	0.093	7.00	Pass
		16-	RB1#24	20.97	0.5	-1.65	19.32	0.086	7.00	Pass
		QAM	RB12#0	20.11	0.5	-1.65	18.46	0.070	7.00	Pass
			RB12#6	20.11	0.5	-1.65	18.46	0.070	7.00	Pass
			RB12#13	20.08	0.5	-1.65	18.43	0.070	7.00	Pass
			RB25#0	20.17	0.5	-1.65	18.52	0.071	7.00	Pass
			RB1#0	22.1	0.5	-1.65	20.45	0.111	7.00	Pass
			RB1#13	22.07	0.5	-1.65	20.42	0.110	7.00	Pass
	HCH	QPSK	RB1#24	22.26	0.5	-1.65	20.61	0.115	7.00	Pass
			RB12#0	21.34	0.5	-1.65	19.69	0.093	7.00	Pass
			RB12#6	21.3	0.5	-1.65	19.65	0.092	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict	
LTE BAND5											
			RB12#13	21.29	0.5	-1.65	19.64	0.092	7.00	Pass	
			RB25#0	21.32	0.5	-1.65	19.67	0.093	7.00	Pass	
			RB1#0	21.25	0.5	-1.65	19.60	0.091	7.00	Pass	
			RB1#13	21.03	0.5	-1.65	19.38	0.087	7.00	Pass	
		40	RB1#24	20.63	0.5	-1.65	18.98	0.079	7.00	Pass	
		16-	RB12#0	20.37	0.5	-1.65	18.72	0.074	7.00	Pass	
		QAM	RB12#6	20.35	0.5	-1.65	18.70	0.074	7.00	Pass	
			RB12#13	20.27	0.5	-1.65	18.62	0.073	7.00	Pass	
			RB25#0	20.29	0.5	-1.65	18.64	0.073	7.00	Pass	
			RB1#0	21.95	0.5	-1.65	20.30	0.107	7.00	Pass	
			RB1#25	22.3	0.5	-1.65	20.65	0.116	7.00	Pass	
	LCH	QPSK	RB1#49	21.99	0.5	-1.65	20.34	0.108	7.00	Pass	
			RB25#0	21.08	0.5	-1.65	19.43	0.088	7.00	Pass	
			RB25#13	21.22	0.5	-1.65	19.57	0.091	7.00	Pass	
			RB25#25	21.07	0.5	-1.65	19.42	0.087	7.00	Pass	
			RB50#0	21.14	0.5	-1.65	19.49	0.089	7.00	Pass	
		16- QAM	RB1#0	21.08	0.5	-1.65	19.43	0.088	7.00	Pass	
			RB1#25	21.85	0.5	-1.65	20.20	0.105	7.00	Pass	
			RB1#49	21.32	0.5	-1.65	19.67	0.093	7.00	Pass	
			RB25#0	20.03	0.5	-1.65	18.38	0.069	7.00	Pass	
			RB25#13	20.27	0.5	-1.65	18.62	0.073	7.00	Pass	
			RB25#25	20.06	0.5	-1.65	18.41	0.069	7.00	Pass	
			RB50#0	20.18	0.5	-1.65	18.53	0.071	7.00	Pass	
10			RB1#0	21.76	0.5	-1.65	20.11	0.103	7.00	Pass	
MHz			RB1#25	22.41	0.5	-1.65	20.76	0.119	7.00	Pass	
			RB1#49	22.12	0.5	-1.65	20.47	0.111	7.00	Pass	
		QPSK	RB25#0	21.31	0.5	-1.65	19.66	0.092	7.00	Pass	
			RB25#13	21.32	0.5	-1.65	19.67	0.093	7.00	Pass	
			RB25#25	21.32	0.5	-1.65	19.67	0.093	7.00	Pass	
	MCH		RB50#0	21.29	0.5	-1.65	19.64	0.092	7.00	Pass	
	IVIOIT		RB1#0	21.13	0.5	-1.65	19.48	0.089	7.00	Pass	
			RB1#25	21.44	0.5	-1.65	19.79	0.095	7.00	Pass	
		16-	RB1#49	20.75	0.5	-1.65	19.10	0.081	7.00	Pass	
		QAM	RB25#0	20.21	0.5	-1.65	18.56	0.072	7.00	Pass	
			RB25#13	20.49	0.5	-1.65	18.84	0.077	7.00	Pass	
			RB25#25	20.39	0.5	-1.65	18.74	0.075	7.00	Pass	
		<u></u> _	RB50#0	20.12	0.5	-1.65	18.47	0.070	7.00	Pass	
	HCH	QPSK	RB1#0	22.27	0.5	-1.65	20.62	0.115	7.00	Pass	
	ПОП	QP5K	RB1#25	22.71	0.5	-1.65	21.06	0.128	7.00	Pass	



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB1#49	22.15	0.5	-1.65	20.50	0.112	7.00	Pass
			RB25#0	21.29	0.5	-1.65	19.64	0.092	7.00	Pass
			RB25#13	21.42	0.5	-1.65	19.77	0.095	7.00	Pass
			RB25#25	21.28	0.5	-1.65	19.63	0.092	7.00	Pass
			RB50#0	21.38	0.5	-1.65	19.73	0.094	7.00	Pass
			RB1#0	21.26	0.5	-1.65	19.61	0.091	7.00	Pass
			RB1#25	21.38	0.5	-1.65	19.73	0.094	7.00	Pass
		16-	RB1#49	21.05	0.5	-1.65	19.40	0.087	7.00	Pass
		QAM	RB25#0	20.33	0.5	-1.65	18.68	0.074	7.00	Pass
	QAIVI	QAIVI	RB25#13	20.55	0.5	-1.65	18.90	0.078	7.00	Pass
			RB25#25	20.42	0.5	-1.65	18.77	0.075	7.00	Pass
		RB50#0	20.33	0.5	-1.65	18.68	0.074	7.00	Pass	



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict	
LTE BAND12											
			RB1#0	23.31	0.6	-1.55	21.76	0.150	3.00	Pass	
			RB1#3	23.35	0.6	-1.55	21.80	0.151	3.00	Pass	
			RB1#5	23.27	0.6	-1.55	21.72	0.149	3.00	Pass	
		QPSK	RB3#0	23.35	0.6	-1.55	21.80	0.151	3.00	Pass	
			RB3#2	23.42	0.6	-1.55	21.87	0.154	3.00	Pass	
			RB3#3	23.3	0.6	-1.55	21.75	0.150	3.00	Pass	
	1.011		RB6#0	22.39	0.6	-1.55	20.84	0.121	3.00	Pass	
	LCH		RB1#0	22.34	0.6	-1.55	20.79	0.120	3.00	Pass	
			RB1#3	22.36	0.6	-1.55	20.81	0.121	3.00	Pass	
		16-	RB1#5	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
		QAM	RB3#0	22.42	0.6	-1.55	20.87	0.122	3.00	Pass	
		QAM	RB3#2	22.45	0.6	-1.55	20.90	0.123	3.00	Pass	
			RB3#3	22.46	0.6	-1.55	20.91	0.123	3.00	Pass	
			RB6#0	21.66	0.6	-1.55	20.11	0.103	3.00	Pass	
	МСН	QPSK	RB1#0	22.98	0.6	-1.55	21.43	0.139	3.00	Pass	
			RB1#3	23.02	0.6	-1.55	21.47	0.140	3.00	Pass	
			RB1#5	22.85	0.6	-1.55	21.30	0.135	3.00	Pass	
			RB3#0	23.01	0.6	-1.55	21.46	0.140	3.00	Pass	
1.4			RB3#2	23.11	0.6	-1.55	21.56	0.143	3.00	Pass	
MHz			RB3#3	23.13	0.6	-1.55	21.58	0.144	3.00	Pass	
1011 12			RB6#0	22.21	0.6	-1.55	20.66	0.116	3.00	Pass	
		16- QAM	RB1#0	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
			RB1#3	22.39	0.6	-1.55	20.84	0.121	3.00	Pass	
			RB1#5	22.22	0.6	-1.55	20.67	0.117	3.00	Pass	
			RB3#0	21.95	0.6	-1.55	20.40	0.110	3.00	Pass	
		Q,	RB3#2	22.14	0.6	-1.55	20.59	0.115	3.00	Pass	
			RB3#3	21.98	0.6	-1.55	20.43	0.110	3.00	Pass	
			RB6#0	20.94	0.6	-1.55	19.39	0.087	3.00	Pass	
			RB1#0	22.72	0.6	-1.55	21.17	0.131	3.00	Pass	
			RB1#3	22.71	0.6	-1.55	21.16	0.131	3.00	Pass	
			RB1#5	22.7	0.6	-1.55	21.15	0.130	3.00	Pass	
		QPSK	RB3#0	22.8	0.6	-1.55	21.25	0.133	3.00	Pass	
			RB3#2	22.93	0.6	-1.55	21.38	0.137	3.00	Pass	
	HCH		RB3#3	22.82	0.6	-1.55	21.27	0.134	3.00	Pass	
			RB6#0	21.89	0.6	-1.55	20.34	0.108	3.00	Pass	
			RB1#0	21.82	0.6	-1.55	20.27	0.106	3.00	Pass	
		16-	RB1#3	21.78	0.6	-1.55	20.23	0.105	3.00	Pass	
		QAM	RB1#5	21.94	0.6	-1.55	20.39	0.109	3.00	Pass	
			RB3#0	22.04	0.6	-1.55	20.49	0.112	3.00	Pass	



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict	
LTE BAND12											
			RB3#2	22.02	0.6	-1.55	20.47	0.111	3.00	Pass	
			RB3#3	21.96	0.6	-1.55	20.41	0.110	3.00	Pass	
			RB6#0	21.04	0.6	-1.55	19.49	0.089	3.00	Pass	
			RB1#0	23.37	0.6	-1.55	21.82	0.152	3.00	Pass	
			RB1#7	23.44	0.6	-1.55	21.89	0.155	3.00	Pass	
			RB1#14	23.26	0.6	-1.55	21.71	0.148	3.00	Pass	
		QPSK	RB8#0	22.44	0.6	-1.55	20.89	0.123	3.00	Pass	
			RB8#4	22.39	0.6	-1.55	20.84	0.121	3.00	Pass	
			RB8#7	22.35	0.6	-1.55	20.80	0.120	3.00	Pass	
	LCH		RB15#0	22.38	0.6	-1.55	20.83	0.121	3.00	Pass	
	LCH		RB1#0	22.25	0.6	-1.55	20.70	0.117	3.00	Pass	
			RB1#7	22.28	0.6	-1.55	20.73	0.118	3.00	Pass	
		16- QAM	RB1#14	22.24	0.6	-1.55	20.69	0.117	3.00	Pass	
			RB8#0	21.76	0.6	-1.55	20.21	0.105	3.00	Pass	
			RB8#4	21.79	0.6	-1.55	20.24	0.106	3.00	Pass	
			RB8#7	21.67	0.6	-1.55	20.12	0.103	3.00	Pass	
			RB15#0	21.37	0.6	-1.55	19.82	0.096	3.00	Pass	
	мсн	QPSK	RB1#0	23.05	0.6	-1.55	21.50	0.141	3.00	Pass	
			RB1#7	23.08	0.6	-1.55	21.53	0.142	3.00	Pass	
			RB1#14	23.12	0.6	-1.55	21.57	0.144	3.00	Pass	
3 MHz			RB8#0	22.25	0.6	-1.55	20.70	0.117	3.00	Pass	
3 1011 12			RB8#4	22.27	0.6	-1.55	20.72	0.118	3.00	Pass	
			RB8#7	22.29	0.6	-1.55	20.74	0.119	3.00	Pass	
			RB15#0	22.32	0.6	-1.55	20.77	0.119	3.00	Pass	
		16- QAM	RB1#0	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
			RB1#7	22.28	0.6	-1.55	20.73	0.118	3.00	Pass	
			RB1#14	22.33	0.6	-1.55	20.78	0.120	3.00	Pass	
			RB8#0	21.19	0.6	-1.55	19.64	0.092	3.00	Pass	
		ζ,	RB8#4	21.51	0.6	-1.55	19.96	0.099	3.00	Pass	
			RB8#7	21.32	0.6	-1.55	19.77	0.095	3.00	Pass	
			RB15#0	21.41	0.6	-1.55	19.86	0.097	3.00	Pass	
			RB1#0	22.87	0.6	-1.55	21.32	0.136	3.00	Pass	
			RB1#7	22.74	0.6	-1.55	21.19	0.132	3.00	Pass	
		_	RB1#14	22.69	0.6	-1.55	21.14	0.130	3.00	Pass	
	HCH	QPSK	RB8#0	22.02	0.6	-1.55	20.47	0.111	3.00	Pass	
			RB8#4	21.87	0.6	-1.55	20.32	0.108	3.00	Pass	
			RB8#7	21.85	0.6	-1.55	20.30	0.107	3.00	Pass	
			RB15#0	22.08	0.6	-1.55	20.53	0.113	3.00	Pass	
			RB1#0	22.17	0.6	-1.55	20.62	0.115	3.00	Pass	



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict	
LTE BAND12											
			RB1#7	21.94	0.6	-1.55	20.39	0.109	3.00	Pass	
		16-	RB1#14	21.94	0.6	-1.55	20.39	0.109	3.00	Pass	
		QAM	RB8#0	21.03	0.6	-1.55	19.48	0.089	3.00	Pass	
			RB8#4	20.97	0.6	-1.55	19.42	0.087	3.00	Pass	
			RB8#7	20.76	0.6	-1.55	19.21	0.083	3.00	Pass	
			RB15#0	21.1	0.6	-1.55	19.55	0.090	3.00	Pass	
			RB1#0	22.97	0.6	-1.55	21.42	0.139	3.00	Pass	
			RB1#13	23.05	0.6	-1.55	21.50	0.141	3.00	Pass	
			RB1#24	23.1	0.6	-1.55	21.55	0.143	3.00	Pass	
		QPSK	RB12#0	22.35	0.6	-1.55	20.80	0.120	3.00	Pass	
			RB12#6	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
	LCH		RB12#13	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
			RB25#0	22.37	0.6	-1.55	20.82	0.121	3.00	Pass	
		16- QAM	RB1#0	22.21	0.6	-1.55	20.66	0.116	3.00	Pass	
			RB1#13	22.3	0.6	-1.55	20.75	0.119	3.00	Pass	
			RB1#24	21.9	0.6	-1.55	20.35	0.108	3.00	Pass	
			RB12#0	21.46	0.6	-1.55	19.91	0.098	3.00	Pass	
			RB12#6	21.42	0.6	-1.55	19.87	0.097	3.00	Pass	
			RB12#13	21.34	0.6	-1.55	19.79	0.095	3.00	Pass	
			RB25#0	21.46	0.6	-1.55	19.91	0.098	3.00	Pass	
		QPSK	RB1#0	22.83	0.6	-1.55	21.28	0.134	3.00	Pass	
			RB1#13	22.94	0.6	-1.55	21.39	0.138	3.00	Pass	
5 MHz			RB1#24	22.79	0.6	-1.55	21.24	0.133	3.00	Pass	
			RB12#0	22.26	0.6	-1.55	20.71	0.118	3.00	Pass	
			RB12#6	22.36	0.6	-1.55	20.81	0.121	3.00	Pass	
			RB12#13	22.33	0.6	-1.55	20.78	0.120	3.00	Pass	
	MCH		RB25#0	22.19	0.6	-1.55	20.64	0.116	3.00	Pass	
			RB1#0	22.21	0.6	-1.55	20.66	0.116	3.00	Pass	
			RB1#13	22.35	0.6	-1.55	20.80	0.120	3.00	Pass	
		16-	RB1#24	22.13	0.6	-1.55	20.58	0.114	3.00	Pass	
		QAM	RB12#0	21.09	0.6	-1.55	19.54	0.090	3.00	Pass	
			RB12#6	21.08	0.6	-1.55	19.53	0.090	3.00	Pass	
			RB12#13	21.13	0.6	-1.55	19.58	0.091	3.00	Pass	
			RB25#0	21.18	0.6	-1.55	19.63	0.092	3.00	Pass	
			RB1#0	22.85	0.6	-1.55	21.30	0.135	3.00	Pass	
			RB1#13	22.79	0.6	-1.55	21.24	0.133	3.00	Pass	
	HCH	QPSK	RB1#24	22.51	0.6	-1.55	20.96	0.125	3.00	Pass	
			RB12#0	22.08	0.6	-1.55	20.53	0.113	3.00	Pass	
			RB12#6	21.93	0.6	-1.55	20.38	0.109	3.00	Pass	



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND12					
			RB12#13	21.9	0.6	-1.55	20.35	0.108	3.00	Pass
			RB25#0	21.95	0.6	-1.55	20.40	0.110	3.00	Pass
			RB1#0	22.02	0.6	-1.55	20.47	0.111	3.00	Pass
			RB1#13	21.83	0.6	-1.55	20.28	0.107	3.00	Pass
		16-	RB1#24	21.17	0.6	-1.55	19.62	0.092	3.00	Pass
		QAM	RB12#0	21.19	0.6	-1.55	19.64	0.092	3.00	Pass
		QAM	RB12#6	20.99	0.6	-1.55	19.44	0.088	3.00	Pass
			RB12#13	20.85	0.6	-1.55	19.30	0.085	3.00	Pass
			RB25#0	20.9	0.6	-1.55	19.35	0.086	3.00	Pass
			RB1#0	23.19	0.6	-1.55	21.64	0.146	3.00	Pass
			RB1#25	23.46	0.6	-1.55	21.91	0.155	3.00	Pass
			RB1#49	23.14	0.6	-1.55	21.59	0.144	3.00	Pass
		QPSK	RB25#0	22.44	0.6	-1.55	20.89	0.123	3.00	Pass
			RB25#13	22.3	0.6	-1.55	20.75	0.119	3.00	Pass
			RB25#25	22.31	0.6	-1.55	20.76	0.119	3.00	Pass
	LCH		RB50#0	22.37	0.6	-1.55	20.82	0.121	3.00	Pass
	LOH	16-	RB1#0	22.34	0.6	-1.55	20.79	0.120	3.00	Pass
			RB1#25	22.74	0.6	-1.55	21.19	0.132	3.00	Pass
			RB1#49	22.14	0.6	-1.55	20.59	0.115	3.00	Pass
		QAM	RB25#0	21.37	0.6	-1.55	19.82	0.096	3.00	Pass
		QAIVI	RB25#13	21.34	0.6	-1.55	19.79	0.095	3.00	Pass
			RB25#25	21.35	0.6	-1.55	19.80	0.095	3.00	Pass
			RB50#0	21.29	0.6	-1.55	19.74	0.094	3.00	Pass
10			RB1#0	23.05	0.6	-1.55	21.50	0.141	3.00	Pass
MHz			RB1#25	23.55	0.6	-1.55	22.00	0.158	3.00	Pass
			RB1#49	22.81	0.6	-1.55	21.26	0.134	3.00	Pass
		QPSK	RB25#0	22.2	0.6	-1.55	20.65	0.116	3.00	Pass
			RB25#13	22.34	0.6	-1.55	20.79	0.120	3.00	Pass
			RB25#25	22.31	0.6	-1.55	20.76	0.119	3.00	Pass
	MCH		RB50#0	22.25	0.6	-1.55	20.70	0.117	3.00	Pass
	IVIOIT		RB1#0	22.29	0.6	-1.55	20.74	0.119	3.00	Pass
			RB1#25	22.44	0.6	-1.55	20.89	0.123	3.00	Pass
		16-	RB1#49	21.58	0.6	-1.55	20.03	0.101	3.00	Pass
		QAM	RB25#0	21.29	0.6	-1.55	19.74	0.094	3.00	Pass
		G, IIVI	RB25#13	21.53	0.6	-1.55	19.98	0.100	3.00	Pass
			RB25#25	21.47	0.6	-1.55	19.92	0.098	3.00	Pass
			RB50#0	21.25	0.6	-1.55	19.70	0.093	3.00	Pass
	НСН	QPSK	RB1#0	23.23	0.6	-1.55	21.68	0.147	3.00	Pass
	. 1011	<u> </u>	RB1#25	23.45	0.6	-1.55	21.90	0.155	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND12					
			RB1#49	22.68	0.6	-1.55	21.13	0.130	3.00	Pass
			RB25#0	22.4	0.6	-1.55	20.85	0.122	3.00	Pass
			RB25#13	22.33	0.6	-1.55	20.78	0.120	3.00	Pass
			RB25#25	21.98	0.6	-1.55	20.43	0.110	3.00	Pass
			RB50#0	22.07	0.6	-1.55	20.52	0.113	3.00	Pass
			RB1#0	22.23	0.6	-1.55	20.68	0.117	3.00	Pass
			RB1#25	22.2	0.6	-1.55	20.65	0.116	3.00	Pass
		16-	RB1#49	21.55	0.6	-1.55	20.00	0.100	3.00	Pass
		QAM	RB25#0	21.64	0.6	-1.55	20.09	0.102	3.00	Pass
		QAW	RB25#13	21.32	0.6	-1.55	19.77	0.095	3.00	Pass
			RB25#25	20.94	0.6	-1.55	19.39	0.087	3.00	Pass
			RB50#0	21.09	0.6	-1.55	19.54	0.090	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND14					
			RB1#0	22.13	0.7	-1.45	20.68	0.117	3.00	Pass
			RB1#13	22.19	0.7	-1.45	20.74	0.119	3.00	Pass
			RB1#24	22.12	0.7	-1.45	20.67	0.117	3.00	Pass
		QPSK	RB12#0	21.47	0.7	-1.45	20.02	0.100	3.00	Pass
			RB12#6	21.52	0.7	-1.45	20.07	0.102	3.00	Pass
			RB12#13	21.44	0.7	-1.45	19.99	0.100	3.00	Pass
	LCH		RB25#0	21.49	0.7	-1.45	20.04	0.101	3.00	Pass
	LCH		RB1#0	21.15	0.7	-1.45	19.70	0.093	3.00	Pass
			RB1#13	21.29	0.7	-1.45	19.84	0.096	3.00	Pass
		16-	RB1#24	21.01	0.7	-1.45	19.56	0.090	3.00	Pass
		QAM	RB12#0	20.36	0.7	-1.45	18.91	0.078	3.00	Pass
		QAIVI	RB12#6	20.53	0.7	-1.45	19.08	0.081	3.00	Pass
			RB12#13	20.49	0.7	-1.45	19.04	0.080	3.00	Pass
			RB25#0	20.45	0.7	-1.45	19.00	0.079	3.00	Pass
			RB1#0	22.25	0.7	-1.45	20.80	0.120	3.00	Pass
		QPSK	RB1#13	22.48	0.7	-1.45	21.03	0.127	3.00	Pass
			RB1#24	22.33	0.7	-1.45	20.88	0.122	3.00	Pass
			RB12#0	21.45	0.7	-1.45	20.00	0.100	3.00	Pass
			RB12#6	21.51	0.7	-1.45	20.06	0.101	3.00	Pass
5 MHz			RB12#13	21.39	0.7	-1.45	19.94	0.099	3.00	Pass
	MCH		RB25#0	21.4	0.7	-1.45	19.95	0.099	3.00	Pass
	WOTT		RB1#0	21.55	0.7	-1.45	20.10	0.102	3.00	Pass
			RB1#13	21.54	0.7	-1.45	20.09	0.102	3.00	Pass
		16-	RB1#24	21.19	0.7	-1.45	19.74	0.094	3.00	Pass
		QAM	RB12#0	20.38	0.7	-1.45	18.93	0.078	3.00	Pass
		Q,	RB12#6	20.44	0.7	-1.45	18.99	0.079	3.00	Pass
			RB12#13	20.46	0.7	-1.45	19.01	0.080	3.00	Pass
			RB25#0	20.48	0.7	-1.45	19.03	0.080	3.00	Pass
			RB1#0	22.43	0.7	-1.45	20.98	0.125	3.00	Pass
			RB1#13	22.5	0.7	-1.45	21.05	0.127	3.00	Pass
			RB1#24	22.24	0.7	-1.45	20.79	0.120	3.00	Pass
		QPSK	RB12#0	21.4	0.7	-1.45	19.95	0.099	3.00	Pass
			RB12#6	21.5	0.7	-1.45	20.05	0.101	3.00	Pass
	HCH		RB12#13	21.44	0.7	-1.45	19.99	0.100	3.00	Pass
			RB25#0	21.5	0.7	-1.45	20.05	0.101	3.00	Pass
			RB1#0	21.28	0.7	-1.45	19.83	0.096	3.00	Pass
		16-	RB1#13	20.66	0.7	-1.45	19.21	0.083	3.00	Pass
		QAM	RB1#24	20.77	0.7	-1.45	19.32	0.086	3.00	Pass
			RB12#0	20.38	0.7	-1.45	18.93	0.078	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND14					
			RB12#6	20.36	0.7	-1.45	18.91	0.078	3.00	Pass
			RB12#13	20.31	0.7	-1.45	18.86	0.077	3.00	Pass
			RB25#0	20.55	0.7	-1.45	19.10	0.081	3.00	Pass
			RB1#0	22.33	0.7	-1.45	20.88	0.122	3.00	Pass
			RB1#25	22.5	0.7	-1.45	21.05	0.127	3.00	Pass
		QPSK	RB1#49	22.46	0.7	-1.45	21.01	0.126	3.00	Pass
			QPSK	RB25#0	21.54	0.7	-1.45	20.09	0.102	3.00
			RB25#13	21.64	0.7	-1.45	20.19	0.104	3.00	Pass
			RB25#25	21.52	0.7	-1.45	20.07	0.102	3.00	Pass
10	MCH		RB50#0	21.57	0.7	-1.45	20.12	0.103	3.00	Pass
MHz	IVICH		RB1#0	21.41	0.7	-1.45	19.96	0.099	3.00	Pass
			RB1#25	22.25	0.7	-1.45	20.80	0.120	3.00	Pass
		16	RB1#49	21.58	0.7	-1.45	20.13	0.103	3.00	Pass
		16- QAM	RB25#0	20.54	0.7	-1.45	19.09	0.081	3.00	Pass
		QAIVI	RB25#13	20.55	0.7	-1.45	19.10	0.081	3.00	Pass
			RB25#25	20.53	0.7	-1.45	19.08	0.081	3.00	Pass
			RB50#0	20.59	0.7	-1.45	19.14	0.082	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				,	AND17					
			RB1#0	22.3	0.7	-1.45	20.85	0.122	3.00	Pass
			RB1#13	22.42	0.7	-1.45	20.97	0.125	3.00	Pass
			RB1#24	22.19	0.7	-1.45	20.74	0.119	3.00	Pass
		QPSK	RB12#0	21.5	0.7	-1.45	20.05	0.101	3.00	Pass
			RB12#6	21.63	0.7	-1.45	20.18	0.104	3.00	Pass
			RB12#13	21.54	0.7	-1.45	20.09	0.102	3.00	Pass
	1.011		RB25#0	21.51	0.7	-1.45	20.06	0.101	3.00	Pass
	LCH		RB1#0	21.58	0.7	-1.45	20.13	0.103	3.00	Pass
			RB1#13	21.63	0.7	-1.45	20.18	0.104	3.00	Pass
		16	RB1#24	21.43	0.7	-1.45	19.98	0.100	3.00	Pass
		16- QAM	RB12#0	20.39	0.7	-1.45	18.94	0.078	3.00	Pass
		QAIVI	RB12#6	20.53	0.7	-1.45	19.08	0.081	3.00	Pass
			RB12#13	20.63	0.7	-1.45	19.18	0.083	3.00	Pass
			RB25#0	20.59	0.7	-1.45	19.14	0.082	3.00	Pass
			RB1#0	22.29	0.7	-1.45	20.84	0.121	3.00	Pass
		QPSK	RB1#13	22.28	0.7	-1.45	20.83	0.121	3.00	Pass
			RB1#24	22.25	0.7	-1.45	20.80	0.120	3.00	Pass
			RB12#0	21.5	0.7	-1.45	20.05	0.101	3.00	Pass
			RB12#6	21.45	0.7	-1.45	20.00	0.100	3.00	Pass
5 MHz			RB12#13	21.33	0.7	-1.45	19.88	0.097	3.00	Pass
	MCH		RB25#0	21.43	0.7	-1.45	19.98	0.100	3.00	Pass
	IVICIT		RB1#0	21.44	0.7	-1.45	19.99	0.100	3.00	Pass
			RB1#13	21.46	0.7	-1.45	20.01	0.100	3.00	Pass
		16-	RB1#24	21.03	0.7	-1.45	19.58	0.091	3.00	Pass
		QAM	RB12#0	20.4	0.7	-1.45	18.95	0.079	3.00	Pass
		QAIVI	RB12#6	20.49	0.7	-1.45	19.04	0.080	3.00	Pass
			RB12#13	20.47	0.7	-1.45	19.02	0.080	3.00	Pass
			RB25#0	20.61	0.7	-1.45	19.16	0.082	3.00	Pass
			RB1#0	22.03	0.7	-1.45	20.58	0.114	3.00	Pass
			RB1#13	22.05	0.7	-1.45	20.60	0.115	3.00	Pass
			RB1#24	22.08	0.7	-1.45	20.63	0.116	3.00	Pass
		QPSK	RB12#0	21.39	0.7	-1.45	19.94	0.099	3.00	Pass
			RB12#6	21.4	0.7	-1.45	19.95	0.099	3.00	Pass
	HCH		RB12#13	21.3	0.7	-1.45	19.85	0.097	3.00	Pass
			RB25#0	21.45	0.7	-1.45	20.00	0.100	3.00	Pass
			RB1#0	21.65	0.7	-1.45	20.20	0.105	3.00	Pass
		16-	RB1#13	21.43	0.7	-1.45	19.98	0.100	3.00	Pass
		QAM	RB1#24	20.84	0.7	-1.45	19.39	0.087	3.00	Pass
			RB12#0	20.45	0.7	-1.45	19.00	0.079	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND17					
			RB12#6	20.24	0.7	-1.45	18.79	0.076	3.00	Pass
			RB12#13	20.22	0.7	-1.45	18.77	0.075	3.00	Pass
			RB25#0	20.47	0.7	-1.45	19.02	0.080	3.00	Pass
			RB1#0	22.54	0.7	-1.45	21.09	0.129	3.00	Pass
			RB1#25	22.56	0.7	-1.45	21.11	0.129	3.00	Pass
			RB1#49	22.38	0.7	-1.45	20.93	0.124	3.00	Pass
		QPSK	RB25#0	21.73	0.7	-1.45	20.28	0.107	3.00	Pass
			RB25#13	21.64	0.7	-1.45	20.19	0.104	3.00	Pass
			RB25#25	21.52	0.7	-1.45	20.07	0.102	3.00	Pass
	LCH		RB50#0	21.63	0.7	-1.45	20.18	0.104	3.00	Pass
	LON		RB1#0	21.74	0.7	-1.45	20.29	0.107	3.00	Pass
			RB1#25	22.27	0.7	-1.45	20.82	0.121	3.00	Pass
		16-	RB1#49	21.48	0.7	-1.45	20.03	0.101	3.00	Pass
		QAM	RB25#0	20.67	0.7	-1.45	19.22	0.084	3.00	Pass
		QAW	RB25#13	20.47	0.7	-1.45	19.02	0.080	3.00	Pass
			RB25#25	20.58	0.7	-1.45	19.13	0.082	3.00	Pass
			RB50#0	20.57	0.7	-1.45	19.12	0.082	3.00	Pass
			RB1#0	22.47	0.7	-1.45	21.02	0.126	3.00	Pass
			RB1#25	22.64	0.7	-1.45	21.19	0.132	3.00	Pass
			RB1#49	22.31	0.7	-1.45	20.86	0.122	3.00	Pass
10		QPSK	RB25#0	21.52	0.7	-1.45	20.07	0.102	3.00	Pass
MHz			RB25#13	21.49	0.7	-1.45	20.04	0.101	3.00	Pass
			RB25#25	21.34	0.7	-1.45	19.89	0.097	3.00	Pass
	MCH		RB50#0	21.48	0.7	-1.45	20.03	0.101	3.00	Pass
			RB1#0	21.61	0.7	-1.45	20.16	0.104	3.00	Pass
			RB1#25	21.57	0.7	-1.45	20.12	0.103	3.00	Pass
		16-	RB1#49	20.69	0.7	-1.45	19.24	0.084	3.00	Pass
		QAM	RB25#0	20.7	0.7	-1.45	19.25	0.084	3.00	Pass
			RB25#13	20.69	0.7	-1.45	19.24	0.084	3.00	Pass
			RB25#25	20.42	0.7	-1.45	18.97	0.079	3.00	Pass
			RB50#0	20.56	0.7	-1.45	19.11	0.081	3.00	Pass
			RB1#0	22.57	0.7	-1.45	21.12	0.129	3.00	Pass
			RB1#25	22.76	0.7	-1.45	21.31	0.135	3.00	Pass
			RB1#49	22.4	0.7	-1.45	20.95	0.124	3.00	Pass
	HCH	QPSK	RB25#0	21.52	0.7	-1.45	20.07	0.102	3.00	Pass
			RB25#13	21.42	0.7	-1.45	19.97	0.099	3.00	Pass
			RB25#25	21.45	0.7	-1.45	20.00	0.100	3.00	Pass
			RB50#0	21.59	0.7	-1.45	20.14	0.103	3.00	Pass
			RB1#0	21.7	0.7	-1.45	20.25	0.106	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND17					
			RB1#25	21.59	0.7	-1.45	20.14	0.103	3.00	Pass
		16-	RB1#49	21.45	0.7	-1.45	20.00	0.100	3.00	Pass
		QAM	RB25#0	20.83	0.7	-1.45	19.38	0.087	3.00	Pass
			RB25#13	20.58	0.7	-1.45	19.13	0.082	3.00	Pass
			RB25#25	20.46	0.7	-1.45	19.01	0.080	3.00	Pass
			RB50#0	20.57	0.7	-1.45	19.12	0.082	3.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND66					
			RB1#0	22.76	1.5	24.26	0.267	1.00	Pass
			RB1#3	22.79	1.5	24.29	0.269	1.00	Pass
			RB1#5	22.65	1.5	24.15	0.260	1.00	Pass
		QPSK	RB3#0	22.51	1.5	24.01	0.252	1.00	Pass
			RB3#2	22.55	1.5	24.05	0.254	1.00	Pass
			RB3#3	22.71	1.5	24.21	0.264	1.00	Pass
	1.011		RB6#0	21.56	1.5	23.06	0.202	1.00	Pass
	LCH		RB1#0	21.54	1.5	23.04	0.201	1.00	Pass
			RB1#3	21.52	1.5	23.02	0.200	1.00	Pass
		16-QAM	RB1#5	21.51	1.5	23.01	0.200	1.00	Pass
			RB3#0	21.49	1.5	22.99	0.199	1.00	Pass
			RB3#2	21.55	1.5	23.05	0.202	1.00	Pass
			RB3#3	21.62	1.5	23.12	0.205	1.00	Pass
			RB6#0	20.67	1.5	22.17	0.165	1.00	Pass
			RB1#0	22.17	1.5	23.67	0.233	1.00	Pass
		QPSK	RB1#3	22.28	1.5	23.78	0.239	1.00	Pass
			RB1#5	22.22	1.5	23.72	0.236	1.00	Pass
			RB3#0	22.29	1.5	23.79	0.239	1.00	Pass
			RB3#2	22.34	1.5	23.84	0.242	1.00	Pass
1.4 MH			RB3#3	22.29	1.5	23.79	0.239	1.00	Pass
	MCH		RB6#0	21.26	1.5	22.76	0.189	1.00	Pass
	IVIOIT		RB1#0	21.44	1.5	22.94	0.197	1.00	Pass
			RB1#3	21.39	1.5	22.89	0.195	1.00	Pass
			RB1#5	21.35	1.5	22.85	0.193	1.00	Pass
		16-QAM	RB3#0	20.88	1.5	22.38	0.173	1.00	Pass
			RB3#2	21.04	1.5	22.54	0.179	1.00	Pass
			RB3#3	21.15	1.5	22.65	0.184	1.00	Pass
			RB6#0	20.03	1.5	21.53	0.142	1.00	Pass
			RB1#0	22.42	1.5	23.92	0.247	1.00	Pass
			RB1#3	22.76	1.5	24.26	0.267	1.00	Pass
			RB1#5	22.67	1.5	24.17	0.261	1.00	Pass
		QPSK	RB3#0	22.27	1.5	23.77	0.238	1.00	Pass
			RB3#2	22.57	1.5	24.07	0.255	1.00	Pass
	HCH		RB3#3	22.55	1.5	24.05	0.254	1.00	Pass
			RB6#0	21.5	1.5	23.00	0.200	1.00	Pass
			RB1#0	21.56	1.5	23.06	0.202	1.00	Pass
		16-QAM	RB1#3	21.65	1.5	23.15	0.207	1.00	Pass
			RB1#5	21.61	1.5	23.11	0.205	1.00	Pass
			RB3#0	21.9	1.5	23.40	0.219	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				(dBm)	(ubi)				
	1	T	L	TE BAND66	T		<u> </u>		
			RB3#2	21.82	1.5	23.32	0.215	1.00	Pass
			RB3#3	21.79	1.5	23.29	0.213	1.00	Pass
			RB6#0	20.55	1.5	22.05	0.160	1.00	Pass
			RB1#0	22.46	1.5	23.96	0.249	1.00	Pass
			RB1#7	22.39	1.5	23.89	0.245	1.00	Pass
			RB1#14	22.41	1.5	23.91	0.246	1.00	Pass
		QPSK	RB8#0	21.48	1.5	22.98	0.199	1.00	Pass
			RB8#4	21.45	1.5	22.95	0.197	1.00	Pass
			RB8#7	21.43	1.5	22.93	0.196	1.00	Pass
	LCH		RB15#0	21.5	1.5	23.00	0.200	1.00	Pass
			RB1#0	21.31	1.5	22.81	0.191	1.00	Pass
			RB1#7	21.53	1.5	23.03	0.201	1.00	Pass
			RB1#14	21.55	1.5	23.05	0.202	1.00	Pass
		16-QAM	RB8#0	20.93	1.5	22.43	0.175	1.00	Pass
			RB8#4	20.99	1.5	22.49	0.177	1.00	Pass
			RB8#7	20.86	1.5	22.36	0.172	1.00	Pass
			RB15#0	20.68	1.5	22.18	0.165	1.00	Pass
			RB1#0	22.33	1.5	23.83	0.242	1.00	Pass
			RB1#7	22.46	1.5	23.96	0.249	1.00	Pass
			RB1#14	22.36	1.5	23.86	0.243	1.00	Pass
3 MH		QPSK	RB8#0	21.38	1.5	22.88	0.194	1.00	Pass
			RB8#4	21.4	1.5	22.90	0.195	1.00	Pass
			RB8#7	21.37	1.5	22.87	0.194	1.00	Pass
	MCH		RB15#0	21.36	1.5	22.86	0.193	1.00	Pass
			RB1#0	21.44	1.5	22.94	0.197	1.00	Pass
			RB1#7	21.11	1.5	22.61	0.182	1.00	Pass
			RB1#14	21.15	1.5	22.65	0.184	1.00	Pass
		16-QAM	RB8#0	20.22	1.5	21.72	0.149	1.00	Pass
			RB8#4	20.3	1.5	21.80	0.151	1.00	Pass
			RB8#7	20.31	1.5	21.81	0.152	1.00	Pass
			RB15#0	20.37	1.5	21.87	0.154	1.00	Pass
			RB1#0	22.55	1.5	24.05	0.254	1.00	Pass
			RB1#7	22.46	1.5	23.96	0.249	1.00	Pass
		0500	RB1#14	22.58	1.5	24.08	0.256	1.00	Pass
	HCH	QPSK	RB8#0	21.41	1.5	22.91	0.195	1.00	Pass
			RB8#4	21.48	1.5	22.98	0.199	1.00	Pass
			RB8#7	21.44	1.5	22.94	0.197	1.00	Pass
			RB15#0	21.49	1.5	22.99	0.199	1.00	Pass
		16-QAM	RB1#0	21.54	1.5	23.04	0.201	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				TE BAND66					
			RB1#7	21.39	1.5	22.89	0.195	1.00	Pass
			RB1#14	21.59	1.5	23.09	0.204	1.00	Pass
			RB8#0	20.75	1.5	22.25	0.168	1.00	Pass
			RB8#4	20.59	1.5	22.09	0.162	1.00	Pass
			RB8#7	20.47	1.5	21.97	0.157	1.00	Pass
			RB15#0	20.33	1.5	21.83	0.152	1.00	Pass
			RB1#0	22.29	1.5	23.79	0.239	1.00	Pass
			RB1#13	22.37	1.5	23.87	0.244	1.00	Pass
			RB1#24	22.25	1.5	23.75	0.237	1.00	Pass
		QPSK	RB12#0	21.42	1.5	22.92	0.196	1.00	Pass
			RB12#6	21.51	1.5	23.01	0.200	1.00	Pass
			RB12#13	21.47	1.5	22.97	0.198	1.00	Pass
	1.011		RB25#0	21.45	1.5	22.95	0.197	1.00	Pass
	LCH		RB1#0	21.29	1.5	22.79	0.190	1.00	Pass
		16-QAM	RB1#13	20.94	1.5	22.44	0.175	1.00	Pass
			RB1#24	20.89	1.5	22.39	0.173	1.00	Pass
			RB12#0	20.26	1.5	21.76	0.150	1.00	Pass
			RB12#6	20.54	1.5	22.04	0.160	1.00	Pass
			RB12#13	20.43	1.5	21.93	0.156	1.00	Pass
			RB25#0	20.64	1.5	22.14	0.164	1.00	Pass
			RB1#0	22.02	1.5	23.52	0.225	1.00	Pass
			RB1#13	22.14	1.5	23.64	0.231	1.00	Pass
5 MHz			RB1#24	21.95	1.5	23.45	0.221	1.00	Pass
		QPSK	RB12#0	21.4	1.5	22.90	0.195	1.00	Pass
			RB12#6	21.42	1.5	22.92	0.196	1.00	Pass
			RB12#13	21.26	1.5	22.76	0.189	1.00	Pass
	MCH		RB25#0	21.38	1.5	22.88	0.194	1.00	Pass
	WICH		RB1#0	21.36	1.5	22.86	0.193	1.00	Pass
			RB1#13	21.41	1.5	22.91	0.195	1.00	Pass
			RB1#24	21.23	1.5	22.73	0.187	1.00	Pass
		16-QAM	RB12#0	20.12	1.5	21.62	0.145	1.00	Pass
			RB12#6	20.42	1.5	21.92	0.156	1.00	Pass
			RB12#13	20.37	1.5	21.87	0.154	1.00	Pass
			RB25#0	20.32	1.5	21.82	0.152	1.00	Pass
			RB1#0	22.19	1.5	23.69	0.234	1.00	Pass
			RB1#13	22.18	1.5	23.68	0.233	1.00	Pass
	HCH	QPSK	RB1#24	22.07	1.5	23.57	0.228	1.00	Pass
			RB12#0	21.48	1.5	22.98	0.199	1.00	Pass
			RB12#6	21.45	1.5	22.95	0.197	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND66					
			RB12#13	21.49	1.5	22.99	0.199	1.00	Pass
			RB25#0	21.39	1.5	22.89	0.195	1.00	Pass
			RB1#0	21.44	1.5	22.94	0.197	1.00	Pass
			RB1#13	21.1	1.5	22.60	0.182	1.00	Pass
			RB1#24	20.97	1.5	22.47	0.177	1.00	Pass
		16-QAM	RB12#0	20.49	1.5	21.99	0.158	1.00	Pass
			RB12#6	20.46	1.5	21.96	0.157	1.00	Pass
			RB12#13	20.29	1.5	21.79	0.151	1.00	Pass
			RB25#0	20.46	1.5	21.96	0.157	1.00	Pass
			RB1#0	22.42	1.5	23.92	0.247	1.00	Pass
			RB1#25	22.62	1.5	24.12	0.258	1.00	Pass
			RB1#49	22.46	1.5	23.96	0.249	1.00	Pass
		QPSK	RB25#0	21.5	1.5	23.00	0.200	1.00	Pass
			RB25#13	21.57	1.5	23.07	0.203	1.00	Pass
			RB25#25	21.47	1.5	22.97	0.198	1.00	Pass
	LCH		RB50#0	21.45	1.5	22.95	0.197	1.00	Pass
	LOTT		RB1#0	21.55	1.5	23.05	0.202	1.00	Pass
			RB1#25	22.27	1.5	23.77	0.238	1.00	Pass
			RB1#49	21.61	1.5	23.11	0.205	1.00	Pass
		16-QAM	RB25#0	20.68	1.5	22.18	0.165	1.00	Pass
			RB25#13	20.65	1.5	22.15	0.164	1.00	Pass
			RB25#25	20.55	1.5	22.05	0.160	1.00	Pass
			RB50#0	20.5	1.5	22.00	0.158	1.00	Pass
10 MHz			RB1#0	22.42	1.5	23.92	0.247	1.00	Pass
			RB1#25	22.66	1.5	24.16	0.261	1.00	Pass
			RB1#49	22.21	1.5	23.71	0.235	1.00	Pass
		QPSK	RB25#0	21.38	1.5	22.88	0.194	1.00	Pass
			RB25#13	21.37	1.5	22.87	0.194	1.00	Pass
			RB25#25	21.27	1.5	22.77	0.189	1.00	Pass
	MCH		RB50#0	21.32	1.5	22.82	0.191	1.00	Pass
			RB1#0	21.43	1.5	22.93	0.196	1.00	Pass
			RB1#25	21.42	1.5	22.92	0.196	1.00	Pass
			RB1#49	21.19	1.5	22.69	0.186	1.00	Pass
		16-QAM	RB25#0	20.47	1.5	21.97	0.157	1.00	Pass
			RB25#13	20.55	1.5	22.05	0.160	1.00	Pass
			RB25#25	20.35	1.5	21.85	0.153	1.00	Pass
			RB50#0	20.48	1.5	21.98	0.158	1.00	Pass
	HCH	QPSK	RB1#0	22.49	1.5	23.99	0.251	1.00	Pass
		=,. 5	RB1#25	22.73	1.5	24.23	0.265	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				(dBm)	(ubi)				
			L	TE BAND66					
			RB1#49	22.23	1.5	23.73	0.236	1.00	Pass
			RB25#0	21.43	1.5	22.93	0.196	1.00	Pass
			RB25#13	21.46	1.5	22.96	0.198	1.00	Pass
			RB25#25	21.46	1.5	22.96	0.198	1.00	Pass
			RB50#0	21.45	1.5	22.95	0.197	1.00	Pass
			RB1#0	21.57	1.5	23.07	0.203	1.00	Pass
			RB1#25	21.5	1.5	23.00	0.200	1.00	Pass
			RB1#49	21.44	1.5	22.94	0.197	1.00	Pass
		16-QAM	RB25#0	20.73	1.5	22.23	0.167	1.00	Pass
			RB25#13	20.77	1.5	22.27	0.169	1.00	Pass
			RB25#25	20.42	1.5	21.92	0.156	1.00	Pass
			RB50#0	20.53	1.5	22.03	0.160	1.00	Pass
			RB1#0	22.36	1.5	23.86	0.243	1.00	Pass
			RB1#38	22.51	1.5	24.01	0.252	1.00	Pass
			RB1#74	22.37	1.5	23.87	0.244	1.00	Pass
		.CH QPSK	RB36#0	21.48	1.5	22.98	0.199	1.00	Pass
			RB36#19	21.5	1.5	23.00	0.200	1.00	Pass
			RB36#39	21.4	1.5	22.90	0.195	1.00	Pass
	LCH		RB75#0	21.4	1.5	22.90	0.195	1.00	Pass
	LCH		RB1#0	21.46	1.5	22.96	0.198	1.00	Pass
			RB1#38	22.17	1.5	23.67	0.233	1.00	Pass
			RB1#74	21.33	1.5	22.83	0.192	1.00	Pass
		16-QAM	RB36#0	20.52	1.5	22.02	0.159	1.00	Pass
			RB36#19	20.55	1.5	22.05	0.160	1.00	Pass
			RB36#39	20.37	1.5	21.87	0.154	1.00	Pass
15 MHz			RB75#0	20.38	1.5	21.88	0.154	1.00	Pass
			RB1#0	22.5	1.5	24.00	0.251	1.00	Pass
			RB1#38	22.44	1.5	23.94	0.248	1.00	Pass
			RB1#74	22.14	1.5	23.64	0.231	1.00	Pass
		QPSK	RB36#0	21.43	1.5	22.93	0.196	1.00	Pass
			RB36#19	21.35	1.5	22.85	0.193	1.00	Pass
			RB36#39	21.21	1.5	22.71	0.187	1.00	Pass
	MCH		RB75#0	21.33	1.5	22.83	0.192	1.00	Pass
			RB1#0	21.69	1.5	23.19	0.208	1.00	Pass
			RB1#38	21.45	1.5	22.95	0.197	1.00	Pass
		16-QAM	RB1#74	21.27	1.5	22.77	0.189	1.00	Pass
			RB36#0	20.35	1.5	21.85	0.153	1.00	Pass
			RB36#19	20.55	1.5	22.05	0.160	1.00	Pass
			RB36#39	20.31	1.5	21.81	0.152	1.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict			
LTE BAND66												
			RB75#0	20.29	1.5	21.79	0.151	1.00	Pass			
			RB1#0	22.36	1.5	23.86	0.243	1.00	Pass			
			RB1#38	22.32	1.5	23.82	0.241	1.00	Pass			
	НСН		RB1#74	22.21	1.5	23.71	0.235	1.00	Pass			
		QPSK	RB36#0	21.47	1.5	22.97	0.198	1.00	Pass			
			RB36#19	21.49	1.5	22.99	0.199	1.00	Pass			
			RB36#39	21.37	1.5	22.87	0.194	1.00	Pass			
			RB75#0	21.48	1.5	22.98	0.199	1.00	Pass			
	ПСП		RB1#0	22.08	1.5	23.58	0.228	1.00	Pass			
			RB1#38	22.17	1.5	23.67	0.233	1.00	Pass			
			RB1#74	22.03	1.5	23.53	0.225	1.00	Pass			
		16-QAM	RB36#0	20.54	1.5	22.04	0.160	1.00	Pass			
			RB36#19	20.48	1.5	21.98	0.158	1.00	Pass			
			RB36#39	20.27	1.5	21.77	0.150	1.00	Pass			
			RB75#0	20.42	1.5	21.92	0.156	1.00	Pass			
			RB1#0	22.3	1.5	23.80	0.240	1.00	Pass			
			RB1#50	22.72	1.5	24.22	0.264	1.00	Pass			
		QPSK	RB1#99	22.04	1.5	23.54	0.226	1.00	Pass			
			RB50#0	21.5	1.5	23.00	0.200	1.00	Pass			
			RB50#25	21.57	1.5	23.07	0.203	1.00	Pass			
			RB50#50	21.39	1.5	22.89	0.195	1.00	Pass			
	LCH		RB100#0	21.45	1.5	22.95	0.197	1.00	Pass			
	2011		RB1#0	21.71	1.5	23.21	0.209	1.00	Pass			
			RB1#50	21.64	1.5	23.14	0.206	1.00	Pass			
			RB1#99	20.85	1.5	22.35	0.172	1.00	Pass			
		16-QAM	RB50#0	20.38	1.5	21.88	0.154	1.00	Pass			
20 MHz			RB50#25	20.55	1.5	22.05	0.160	1.00	Pass			
			RB50#50	20.18	1.5	21.68	0.147	1.00	Pass			
			RB100#0	20.44	1.5	21.94	0.156	1.00	Pass			
			RB1#0	22.52	1.5	24.02	0.252	1.00	Pass			
			RB1#50	22.74	1.5	24.24	0.265	1.00	Pass			
			RB1#99	22.1	1.5	23.60	0.229	1.00	Pass			
		QPSK	RB50#0	21.44	1.5	22.94	0.197	1.00	Pass			
	MCH		RB50#25	21.36	1.5	22.86	0.193	1.00	Pass			
			RB50#50	21.33	1.5	22.83	0.192	1.00	Pass			
			RB100#0	21.49	1.5	22.99	0.199	1.00	Pass			
		40.0	RB1#0	21.9	1.5	23.40	0.219	1.00	Pass			
		16-QAM	RB1#50	21.09	1.5	22.59	0.182	1.00	Pass			
			RB1#99	20.88	1.5	22.38	0.173	1.00	Pass			



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict				
	LTE BAND66												
			RB50#0	20.3	1.5	21.80	0.151	1.00	Pass				
			RB50#25	20.61	1.5	22.11	0.163	1.00	Pass				
			RB50#50	20.22	1.5	21.72	0.149	1.00	Pass				
			RB100#0	20.38	1.5	21.88	0.154	1.00	Pass				
			RB1#0	22.12	1.5	23.62	0.230	1.00	Pass				
			RB1#50	22.51	1.5	24.01	0.252	1.00	Pass				
			RB1#99	22.67	1.5	24.17	0.261	1.00	Pass				
		QPSK	RB50#0	21.38	1.5	22.88	0.194	1.00	Pass				
			RB50#25	21.43	1.5	22.93	0.196	1.00	Pass				
			RB50#50	21.44	1.5	22.94	0.197	1.00	Pass				
	HCH		RB100#0	21.4	1.5	22.90	0.195	1.00	Pass				
	11011		RB1#0	21.22	1.5	22.72	0.187	1.00	Pass				
			RB1#50	21.24	1.5	22.74	0.188	1.00	Pass				
			RB1#99	21.2	1.5	22.70	0.186	1.00	Pass				
		16-QAM	RB50#0	20.25	1.5	21.75	0.150	1.00	Pass				
			RB50#25	20.41	1.5	21.91	0.155	1.00	Pass				
			RB50#50	20.14	1.5	21.64	0.146	1.00	Pass				
			RB100#0	20.25	1.5	21.75	0.150	1.00	Pass				



# A.2 Peak to Average Ratio

Note 1: Test plots please refer to the document "Annex No.: BL-SZ19A0286-501 Data Part 1.pdf".

#### WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note1</sup>	Verdict
	LCH	2.87	13	1.1	Pass
Band 2	MCH	3.04	13	1.2	Pass
	HCH	2.99	13	1.3	Pass
	LCH	3.13	13	2.1	Pass
Band 4	MCH	3.3	13	2.2	Pass
	HCH	3.39	13	2.3	Pass
	LCH	3.13	13	3.1	Pass
Band 5	MCH	3.04	13	3.2	Pass
	HCH	2.81	13	3.3	Pass



# LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict	
			QPSK	RB1#0	4.17	13	4.1	Pass	
		LCH	QPSK	RB100#0	5.07	13	4.2	Pass	
		LCH	16 OAM	RB1#0	5.04	13	4.3	Pass	
			16-QAM	RB100#0	6.09	13	4.4	Pass	
			QPSK	RB1#0	4.75	13	4.5	Pass	
LTE	20 MHz	МСП	QPSK	RB100#0	5.13	13	4.6	Pass	
Band 2	ZU IVITZ	MCH	16 OAM	RB1#0	5.88	13	4.7	Pass	
			16-QAM	RB100#0	6.2	13	4.8	Pass	
			ODCK	RB1#0	4.64	13	4.9	Pass	
		LICH	QPSK	RB100#0	5.25	13	4.10	Pass	
			HCH	16 OAM	RB1#0	5.59	13	4.11	Pass
			16-QAM	RB100#0	6.38	13	4.12	Pass	
			ODOK	RB1#0	4.41	13	5.1	Pass	
		1.011	QPSK	RB100#0	5.04	13	5.2	Pass	
		LCH	LCH	40.0414	RB1#0	5.33	13	5.3	Pass
			16-QAM	RB100#0	6.03	13	5.4	Pass	
			ODOK	RB1#0	4.96	13	5.5	Pass	
LTE	00 1411	MCH	QPSK	RB100#0	4.78	13	5.6	Pass	
Band 4	20 MHz		40.0414	RB1#0	5.74	13	5.7	Pass	
			16-QAM	RB100#0	5.8	13	5.8	Pass	
			11011	ODOK	RB1#0	4.43	13	5.9	Pass
				QPSK	RB100#0	4.96	13	5.10	Pass
		HCH	40.0414	RB1#0	5.42	13	5.11	Pass	
			16-QAM	RB100#0	5.88	13	5.12	Pass	
			ODOK	RB1#0	4.55	13	6.1	Pass	
		1.011	QPSK	RB50#0	4.64	13	6.2	Pass	
		LCH	40.0414	RB1#0	5.36	13	6.3	Pass	
			16-QAM	RB50#0	5.62	13	6.4	Pass	
			ODOK	RB1#0	3.88	13	6.5	Pass	
LTE	40 141	MOLL	QPSK	RB50#0	4.75	13	6.6	Pass	
Band 5	10 MHz	MCH	40.0414	RB1#0	4.7	13	6.7	Pass	
			16-QAM	RB50#0	5.77	13	6.8	Pass	
			00014	RB1#0	4.61	13	6.9	Pass	
		11011	QPSK	RB50#0	4.38	13	6.10	Pass	
		HCH	40.0414	RB1#0	5.42	13	6.11	Pass	
			16-QAM	RB50#0	5.51	13	6.12	Pass	
			ODOK	RB1#0	4.14	13	7.1	Pass	
LTE	10 MHz	LCH	QPSK	RB50#0	4.67	13	7.2	Pass	
Band 12			16-QAM	RB1#0	5.13	13	7.3	Pass	



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict	
				RB50#0	5.74	13	7.4	Pass	
			0.0014	RB1#0	4.43	13	7.5	Pass	
			QPSK	RB50#0	4.49	13	7.6	Pass	
		MCH	40.0414	RB1#0	5.22	13	7.7	Pass	
			16-QAM	RB50#0	5.57	13	7.8	Pass	
			ODCK	RB1#0	4.49	13	7.9	Pass	
		LICH	QPSK	RB50#0	4.46	13	7.10	Pass	
		HCH	16 OAM	RB1#0	5.28	13	7.11	Pass	
			16-QAM	RB50#0	5.51	13	7.12	Pass	
			ODCK	RB1#0	4.41	13	8.1	Pass	
LTE	10 MII-	MOLL	QPSK	RB50#0	5.19	13	8.2	Pass	
Band 14	10 MHz	MCH	16 OAM	RB1#0	4.99	13	8.3	Pass	
			16-QAM	RB50#0	6.23	13	8.4	Pass	
				QPSK	RB1#0	4.72	13	9.1	Pass
		I CH	LCH QF3K	RB50#0	4.81	13	9.2	Pass	
		LCH	16-QAM	RB1#0	5.54	13	9.3	Pass	
			16-QAIVI	RB50#0	5.86	13	9.4	Pass	
			ODCK	RB1#0	4.7	13	9.5	Pass	
LTE	10 MI I-	MHz MCH	MCH	QPSK	RB50#0	4.84	13	9.6	Pass
Band 17	IU MITZ		16 OAM	RB1#0	5.42	13	9.7	Pass	
			16-QAM	RB50#0	5.86	13	9.8	Pass	
			ODCK	RB1#0	4.7	13	9.9	Pass	
		LICH	QPSK	RB50#0	4.84	13	9.10	Pass	
		HCH	16 OAM	RB1#0	5.57	13	9.11	Pass	
			16-QAM	RB50#0	5.86	13	9.12	Pass	
			QPSK	RB1#0	3.94	13	10.1	Pass	
		LCH	QFSK	RB100#0	4.43	13	10.2	Pass	
		LON	16-QAM	RB1#0	4.67	13	10.3	Pass	
			10-QAM	RB100#0	5.39	13	10.4	Pass	
			ODSK	RB1#0	4	13	10.5	Pass	
LTE	20 MHz	MCH	QPSK	RB100#0	4.52	13	10.6	Pass	
Band 66	ZU IVITZ	IVICH	16-QAM	RB1#0	4.9	13	10.7	Pass	
			10-QAIVI	RB100#0	5.57	13	10.8	Pass	
			OBSIA	RB1#0	4.12	13	10.9	Pass	
		ПСП	QPSK	RB100#0	4.61	13	10.10	Pass	
		HCH	16 0 4 14	RB1#0	4.72	13	10.11	Pass	
			16-QAM	RB100#0	5.71	13	10.12	Pass	



#### A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document "Annex No.: BL-SZ19A0286-501 Data Part 2.pdf".

#### WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
	LCH	4.12	4.74	1.1
WCDMA Band 2	MCH	4.12	4.72	1.2
	HCH	4.12	4.71	1.3
	LCH	4.14	4.73	2.1
WCDMA Band 4	MCH	4.12	4.7	2.2
	HCH	4.12	4.7	2.3
	LCH	4.14	4.74	3.1
WCDMA Band 5	MCH	4.14	4.74	3.2
	HCH	4.15	4.74	3.3



# LTE Mode Test Data

I E Mode Te	<u> </u>				Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>
Barra	Danawiatii	Onamici	Mode	(OIZOII OIIOCI)	(MHz)	(MHz)	1 100
			QPSK	RB6#0	1.09	1.28	4.1
		LCH	16-QAM	RB6#0	1.09	1.3	4.2
			QPSK	RB6#0	1.09	1.3	4.3
	1.4 MHz	MCH	16-QAM	RB6#0	1.09	1.27	4.4
		HCH	QPSK	RB6#0	1.1	1.27	4.5
			16-QAM	RB6#0	1.09	1.27	4.6
			QPSK	RB15#0	2.71	2.99	4.7
		LCH	16-QAM	RB15#0	2.7	2.95	4.8
			QPSK	RB15#0	2.71	2.99	4.9
	3 MHz	MCH	16-QAM	RB15#0	2.7	2.99	4.10
			QPSK	RB15#0	2.7	3	4.11
		HCH	16-QAM	RB15#0	2.7	3	4.12
			QPSK	RB25#0	4.5	5	4.13
		LCH	16-QAM	RB25#0	4.5	5.04	4.14
		Hz MCH	QPSK	RB25#0	4.52	4.99	4.15
	5 MHz		16-QAM	RB25#0	4.5	4.99	4.16
		НСН	QPSK	RB25#0	4.5	5	4.17
Dando			16-QAM	RB25#0	4.51	5.02	4.18
Band 2		LCH	QPSK	RB50#0	8.97	9.94	4.19
			16-QAM	RB50#0	8.97	9.82	4.20
	10 MHz	MCH	QPSK	RB50#0	8.95	9.9	4.21
	I O IVITZ	IVICT	16-QAM	RB50#0	8.95	9.84	4.22
		HCH	QPSK	RB50#0	8.96	9.9	4.23
		ПОП	16-QAM	RB50#0	8.95	9.87	4.24
		LCH	QPSK	RB75#0	13.44	14.8	4.25
		LON	16-QAM	RB75#0	13.42	14.61	4.26
	15 MHz	MCH	QPSK	RB75#0	13.4	14.68	4.27
	13 IVII IZ	IVICIT	16-QAM	RB75#0	13.4	14.75	4.28
		HCH	QPSK	RB75#0	13.4	14.67	4.29
		11011	16-QAM	RB75#0	13.42	14.77	4.30
		LCH	QPSK	RB100#0	17.88	19.42	4.31
		LOIT	16-QAM	RB100#0	17.87	19.46	4.32
	20 MHz	MCH	QPSK	RB100#0	17.86	19.33	4.33
	20 IVII IZ	IVIOII	16-QAM	RB100#0	17.86	19.42	4.34
		HCH	QPSK	RB100#0	17.88	19.62	4.35
		11011	16-QAM	RB100#0	17.86	19.42	4.36



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>
Dana	Danaman	onamo.	mode	(0.2011 011001)	(MHz)	(MHz)	1 100
			QPSK	RB6#0	1.09	1.31	5.1
		LCH	16-QAM	RB6#0	1.09	1.29	5.2
			QPSK	RB6#0	1.09	1.31	5.3
	1.4 MHz	MCH	16-QAM	RB6#0	1.09	1.28	5.4
			QPSK	RB6#0	1.09	1.28	5.5
		HCH	16-QAM	RB6#0	1.09	1.28	5.6
			QPSK	RB15#0	2.7	2.98	5.7
		LCH	16-QAM	RB15#0	2.7	3.01	5.8
			QPSK	RB15#0	2.7	2.99	5.9
	3 MHz	MCH	16-QAM	RB15#0	2.7	2.99	5.10
			QPSK	RB15#0	2.7	3	5.11
		HCH	16-QAM	RB15#0	2.7	2.99	5.12
		1.011	QPSK	RB25#0	4.51	5	5.13
		LCH	16-QAM	RB25#0	4.5	4.99	5.14
	- N		QPSK	RB25#0	4.49	5.01	5.15
	5 MHz	MCH	16-QAM	RB25#0	4.5	5.02	5.16
		НСН	QPSK	RB25#0	4.49	5	5.17
David 4			16-QAM	RB25#0	4.51	5.04	5.18
Band 4		LCH	QPSK	RB50#0	8.97	9.95	5.19
			16-QAM	RB50#0	8.95	9.85	5.20
	10 MHz	MCII	QPSK	RB50#0	8.95	9.87	5.21
	I U WITZ	MCH	16-QAM	RB50#0	8.95	9.91	5.22
		HCH	QPSK	RB50#0	8.96	9.88	5.23
		пСп	16-QAM	RB50#0	8.95	9.86	5.24
		LCH	QPSK	RB75#0	13.42	14.73	5.25
		LON	16-QAM	RB75#0	13.44	14.72	5.26
	15 MHz	MCH	QPSK	RB75#0	13.37	14.67	5.27
	I D IVITZ	IVICH	16-QAM	RB75#0	13.41	14.69	5.28
		HCH	QPSK	RB75#0	13.43	14.7	5.29
		ПСП	16-QAM	RB75#0	13.44	14.77	5.30
		LCH	QPSK	RB100#0	17.9	19.4	5.31
		LON	16-QAM	RB100#0	17.91	19.48	5.32
	20 MHz	MCH	QPSK	RB100#0	17.81	19.38	5.33
	∠U IVI⊓∠	IVICIT	16-QAM	RB100#0	17.85	19.54	5.34
		HCH	QPSK	RB100#0	17.91	19.65	5.35
		11011	16-QAM	RB100#0	17.87	19.52	5.36



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>
					(MHz)	(MHz)	
		LCU	QPSK	RB6#0	1.09	1.27	6.1
		LCH	16-QAM	RB6#0	1.09	1.3	6.2
	1.4 MHz	MCH	QPSK	RB6#0	1.09	1.29	6.3
	1.4 IVITZ	IVICH	16-QAM	RB6#0	1.08	1.27	6.4
		HCH	QPSK	RB6#0	1.1	1.3	6.5
		ПСП	16-QAM	RB6#0	1.09	1.33	6.6
		LCH	QPSK	RB15#0	2.7	2.99	6.7
		LCH	16-QAM	RB15#0	2.69	2.96	6.8
	3 MHz	MCH	QPSK	RB15#0	2.71	3	6.9
	3 IVITZ		16-QAM	RB15#0	2.7	2.99	6.10
		НСН	QPSK	RB15#0	2.71	2.99	6.11
Band 5			16-QAM	RB15#0	2.7	3	6.12
Danu 3		LCH	QPSK	RB25#0	4.52	4.99	6.13
		LCH	16-QAM	RB25#0	4.49	5	6.14
	5 MHz	MCH	QPSK	RB25#0	4.49	5.01	6.15
	O IVITZ	IVICH	16-QAM	RB25#0	4.51	5.02	6.16
		HCH	QPSK	RB25#0	4.49	5.03	6.17
		пСп	16-QAM	RB25#0	4.51	5.02	6.18
		LCII	QPSK	RB50#0	8.95	9.93	6.19
		LCH	16-QAM	RB50#0	8.96	9.8	6.20
	40 141	MCII	QPSK	RB50#0	8.96	9.89	6.21
	10 MHz	MCH	16-QAM	RB50#0	8.94	9.83	6.22
		LICLI	QPSK	RB50#0	8.94	9.87	6.23
		HCH	16-QAM	RB50#0	8.95	9.83	6.24



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>
					(MHz)	(MHz)	
		LCH	QPSK	RB6#0	1.09	1.28	7.1
			16-QAM	RB6#0	1.09	1.3	7.2
	1.4 MHz	MCH	QPSK	RB6#0	1.09	1.3	7.3
	1.4 IVITZ	IVICH	16-QAM	RB6#0	1.09	1.28	7.4
		HCH	QPSK	RB6#0	1.09	1.27	7.5
		ПОП	16-QAM	RB6#0	1.09	1.28	7.6
		LCH	QPSK	RB15#0	2.7	2.98	7.7
		LCH	16-QAM	RB15#0	2.7	3.01	7.8
	3 MHz	MCH	QPSK	RB15#0	2.7	2.97	7.9
	3 IVITZ		16-QAM	RB15#0	2.7	2.99	7.10
		НСН	QPSK	RB15#0	2.7	2.98	7.11
Band			16-QAM	RB15#0	2.7	3	7.12
12		LCH	QPSK	RB25#0	4.51	4.99	7.13
			16-QAM	RB25#0	4.49	4.99	7.14
	5 MHz	MCH	QPSK	RB25#0	4.49	4.97	7.15
	3 IVITZ	IVICH	16-QAM	RB25#0	4.51	5.01	7.16
		HCH	QPSK	RB25#0	4.5	4.99	7.17
		пСп	16-QAM	RB25#0	4.5	5.01	7.18
		1.011	QPSK	RB50#0	8.96	9.95	7.19
	40.111	LCH	16-QAM	RB50#0	8.97	9.83	7.20
		MCII	QPSK	RB50#0	8.92	9.79	7.21
	10 MHz	MCH	16-QAM	RB50#0	8.93	9.85	7.22
		LICLI	QPSK	RB50#0	8.92	9.84	7.23
		HCH	16-QAM	RB50#0	8.91	9.82	7.24



					Measured 99%	Measured -26															
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to														
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>														
					(MHz)	(MHz)															
		LCH	QPSK	RB25#0	4.5	5.03	8.1														
		LON	16-QAM	RB25#0	4.5	4.97	8.2														
	<b>5 M</b> □→	MHz MCH	QPSK	RB25#0	4.5	5.02	8.3														
Band	3 IVITZ		16-QAM	RB25#0	4.51	5.01	8.4														
14	14															ПСП	QPSK	RB25#0	4.5	4.99	8.5
		HCH	16-QAM	RB25#0	4.5	5.03	8.6														
	40 MH	МСП	QPSK	RB50#0	8.97	9.91	8.7														
	10 MHz	MCH	16-QAM	RB50#0	8.97	9.82	8.8														

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
		LCH	QPSK	RB25#0	4.51	5.01	9.1
		LCH	16-QAM	RB25#0	4.5	4.98	9.2
	5 MHz	MCH	QPSK	RB25#0	4.49	4.98	9.3
	O IVITZ	IVICH	16-QAM	RB25#0	4.5	5.01	9.4
		НСН	QPSK	RB25#0	4.49	4.98	9.5
Band			16-QAM	RB25#0	4.5	5.02	9.6
17		LCH	QPSK	RB50#0	8.95	9.89	9.7
		LCH	16-QAM	RB50#0	8.96	9.79	9.8
	10 MHz	MCLI	QPSK	RB50#0	8.92	9.8	9.9
		MCH	16-QAM	RB50#0	8.92	9.84	9.10
		HCH	QPSK	RB50#0	8.93	9.84	9.11
		поп	16-QAM	RB50#0	8.92	9.84	9.12



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot <sup>Note2</sup>
					(MHz)	(MHz)	
		LCH	QPSK	RB6#0	1.09	1.29	10.1
		LON	16-QAM	RB6#0	1.1	1.3	10.2
	1.4 MHz	MCH	QPSK	RB6#0	1.09	1.29	10.3
	1.4 IVITZ	IVICH	16-QAM	RB6#0	1.09	1.29	10.4
		HCH	QPSK	RB6#0	1.09	1.31	10.5
		11011	16-QAM	RB6#0	1.09	1.3	10.6
		LCH	QPSK	RB15#0	2.7	2.98	10.7
		LOIT	16-QAM	RB15#0	2.7	2.97	10.8
	3 MHz	MCH	QPSK	RB15#0	2.7	2.99	10.9
	J IVII IZ	IVICIT	16-QAM	RB15#0	2.7	2.99	10.10
		HCH	QPSK	RB15#0	2.71	2.99	10.11
		ПОП	16-QAM	RB15#0	2.7	3	10.12
		LCH	QPSK	RB25#0	4.52	5	10.13
	5 MHz	LCIT	16-QAM	RB25#0	4.5	5	10.14
		MCH	QPSK	RB25#0	4.5	4.99	10.15
			16-QAM	RB25#0	4.5	5.03	10.16
		НСН	QPSK	RB25#0	4.49	5.01	10.17
Band			16-QAM	RB25#0	4.5	5.03	10.18
66		LCH	QPSK	RB50#0	8.95	10	10.19
		LON	16-QAM	RB50#0	8.98	9.86	10.20
	10 MHz	MCH	QPSK	RB50#0	8.93	9.91	10.21
	TO MITZ	MCH	16-QAM	RB50#0	8.95	9.86	10.22
		HCH	QPSK	RB50#0	8.96	9.85	10.23
		ПОП	16-QAM	RB50#0	8.94	9.88	10.24
		LCH	QPSK	RB75#0	13.43	14.77	10.25
		LOT	16-QAM	RB75#0	13.44	14.72	10.26
	15 MU-	MCH	QPSK	RB75#0	13.38	14.67	10.27
	15 MHz	MCH	16-QAM	RB75#0	13.42	14.68	10.28
		ПСП	QPSK	RB75#0	13.38	14.78	10.29
		HCH	16-QAM	RB75#0	13.4	14.72	10.30
		LCU	QPSK	RB100#0	17.88	19.33	10.31
		LCH	16-QAM	RB100#0	17.85	19.39	10.32
	20 141 -	MOLL	QPSK	RB100#0	17.83	19.41	10.33
	20 MHz	MCH	16-QAM	RB100#0	17.85	19.45	10.34
		LICLI	QPSK	RB100#0	17.85	19.47	10.35
		HCH	16-QAM	RB100#0	17.83	19.51	10.36



# A.4 Frequency Stability

# WCDMA Band 2

Test	Conditions		Frequency Deviation					
		L	LCH M		ICH	CH HC		
Power	Temperature	1852	.4 MHz	1880	) MHz	1907	'.6 MHz	Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	7.95		-0.84		-7.29		
	-20	6.13		0.15		-8.1		
	-10	7.58		0.52		-7.32		
	0	7.16		0.09		-8.74		
	10	6.67		-1.39		-8.33		
5	20	7.7		0.54		-7		
	25	8.41	±4631	-0.3	±4700	-8.49	±4769	Pass
	30	6.95		0.24		-8.08		
	40	6.41		0.26		-6.9		
	50	6.22		0.64		-7.73		
	55	8.44		-1.17		-8.6		
4.75	25	7.4		-0.94		-6.79		
5.25	25	5.25		-0.6		-7.75		

# WCDMA Band 4

Test	Conditions			Frequenc	y Deviation			
		L	СН	M	ICH	F	НСН	
Power	Temperature	1712	.4 MHz	1732	.4 MHz	1752	2.6 MHz	Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	30.39		-1.07		-27.86		
	-20	29.5		-0.04		-26.94		
	-10	29.35		-1.04		-26.2		
	0	28.96		-0.36		-25.8		
	10	28.59		-0.39		-26.83		
5	20	28.67		-0.54		-25.48		
	25	27.1	$\pm$ 4281	-0.62	$\pm$ 4331	-25.17	±4381.5	Pass
	30	27.64		-0.97		-24.51		
	40	27.04		-0.55		-23.45		
	50	26.55		-1.85		-23.5		
	55	25.81		-1.12		-24.28		
4.75	25	25.91		-0.22		-24.79		
5.25	25	23.6		-1.13		-20.87		



## WCDMA Band B5

Test	Conditions			Frequenc	y Deviation			
		LCH		MCH		HCH		
Power	Temperature	826.	4 MHz	836.	4 MHz	846	.6 MHz	Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	3.96		0.23		-3.46		
	-20	4.55		0.82		-3.5		
	-10	4.15		0.59		-3.5		
	0	3.5		-0.07		-4.14		
	10	3.98		0.16		-3.71		
5	20	3.87		0.16		-3.53		
	25	3.78	±2066	-0.12	±2091	-3.51	±2116.5	Pass
	30	3.91		0.43		-3.58		
	40	3.23		0.81		-3.9		
	50	3.4		0.13		-2.78		
	55	3.29		-0.09		-3.63		
4.75	25	3.06		-0.07		-3.84		
5.25	25	1.87		-0.78		-2.68		



## LTE Band 2 QPSK 10 MHz

Test Conditions		Frequen	cy Deviation	
Davier (MDC)	Tamas anatura (%C)		MCH 80 MHz	Verdict
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-4.26		
	-20	-4.19		
	-10	-3.4		
	0	-4.61		
	10	-2.1		
5	20	-4.96		
	25	-3.33	±4700	Pass
	30	-3.5		
	40	-2.95		
	50	-1.67		
	55	-2.88		
4.75	25	-2.69	1	
5.25	25	-3.72		

# LTE Band 2 16QAM 10 MHz

Test Conditions		Frequen	cy Deviation	
D (1/D 0)	T (00)		MCH 1880 MHz	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-3.95		
	-20	-2.93		
	-10	-3.92		Pass
	0	-4.42		
	10	-3.86		
5	20	-4.01		
	25	-4.12	±4700	
	30	-2.25		
	40	-2.73		
	50	-3.72		
	55	-3.4		
4.75	25	-2.98		
5.25	25	-4.69		



## LTE Band 4 QPSK 10 MHz

Test Conditions		Frequen	cy Deviation		
Davis (1/DO)	T (%O)		MCH 1732.5 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-0.36			
	-20	0.23			
	-10	0.11			
	0	-1.22			
	10	-0.69			
5	20	0.69			
	25	-0.44	±4331.25	Pass	
	30	0.87			
	40	-0.37			
	50	0.44			
	55	-1.73			
4.75	25	0.09			
5.25	25	-1.37			

# LTE Band 4 16QAM 10 MHz

Test Conditions		Frequen	cy Deviation	
D (1/DO)	T(00)		MCH 2.5 MHz	Verdict
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	0.6		
	-20	0.96		
	-10	0.03		
	0	1.14		
	10	0		
5	20	-0.4		Pass
	25	1.2	±4331.25	
	30	0.2		
	40	-0.63		
	50	-0.93		
	55	-0.49		
4.75	25	1.93		
5.25	25	0.77		



## LTE Band 5 QPSK 10 MHz

Test Conditions		Frequen	cy Deviation	
Davis (1/DO)	T (%O)	MCH 836.5 MHz		Verdict
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-0.94		
	-20	-0.77		
	-10	-2.25		Pass
	0	-1.29		
	10	-0.11		
5	20	-1.33		
	25	-0.89	±2091.25	
	30	-1.12		
	40	0.1		
	50	-2.1		
	55	-1.5		
4.75	25	-0.57		
5.25	25	-0.37		

# LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		
		N		
Power (VDC)	Temperature (°C)	836	.5 MHz	Verdict
1 ower (VDO)	remperature ( °C)	Value	Limits (Hz)	
		(Hz)	Liffits (FIZ)	
	-30	-1.27		
	-20	-1.43		
	-10	-2.29		Pass
	0	-1.26		
	10	-0.33		
5	20	-1.46		
	25	-0.79	±2091.25	
	30	-0.73		
	40	-0.89		
	50	-1.83		
	55	-0.63		
4.75	25	-0.97		
5.25	25	-0.49		



## LTE Band 12 QPSK 10 MHz

Test Conditions		Frequen	cy Deviation	
			MCH	
Power (VDC)	Temperature (°C)	707	.5 MHz	Verdict
1 OWCI (VDO)	remperature ( 0)	Value	Limita (LI=)	
		(Hz)	Limits (Hz)	
	-30	-1.87		
	-20	-0.27		
	-10	-0.82		Pass
	0	0.41		
	10	0.09		
5	20	-1.82		
	25	-1.22	±1768.75	
	30	-1.72		
	40	-0.27		
	50	-0.51		
	55	-0.8		
4.75	25	0.01	1	
5.25	25	-1.1		

# LTE Band 12 16QAM10 MHz

Test Conditions		Frequen	cy Deviation	
		N		
Power (VDC)	Temperature (°C)	707	.5 MHz	Verdict
1 OWEI (VDO)	remperature ( 0)	Value	Limito (Lla)	
		(Hz)	Limits (Hz)	
	-30	-1.06		
	-20	-0.93		
	-10	-1.4		Pass
	0	0.41		
	10	-0.17		
5	20	-1.67		
	25	-0.79	±1768.75	
	30	-1.44		
	40	-0.04		
	50	-1.5		
	55	0.2		
4.75	25	0.8		
5.25	25	-0.6		



## LTE Band 14 QPSK 10 MHz

Test Conditions		Frequen	Frequency Deviation	
2 4 5 6			MCH 793 MHz	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-1.93		
	-20	-1.95		Pass
	-10	-1.07	±1982.5	
	0	0.14		
	10	-0.46		
5	20	1.14		
	25	-1.3		
	30	-0.93		
	40	-1.53		
	50	-1.65		
	55	-1.26		
4.75	25	-0.44		
5.25	25	-1.09		

# LTE Band 14 16QAM10 MHz

Test Conditions		Frequency Deviation			
		MCH		Verdict	
Power (VDC)	Temperature (°C)	79	793 MHz		
1 OWEI (VDO)	remperature ( O)	Value			
		(Hz)	Limits (Hz)		
	-30	-0.4			
	-20	-2.05		Pass	
	-10	-2.62	±1982.5		
	0	-0.13			
	10	-0.63			
5	20	-0.01			
	25	-0.63			
	30	-0.13			
	40	1.09			
	50	-0.94	]		
	55	0.21			
4.75	25	0.49			
5.25	25	-0.34			



## LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		
2 4 5 2		71	Verdict	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	0.11		
	-20	0.51		Pass
	-10	-0.64	±1775	
	0	0.46		
	10	0.3		
5	20	-0.46		
	25	-1.5		
	30	-0.24		
	40	0.74		
	50	-0.14		
	55	-0.86		
4.75	25	-0.31		
5.25	25	-0.89		

# LTE Band 17 16QAM10 MHz

Test Conditions		Frequency Deviation			
		MCH			
Power (VDC)	Temperature (°C)	71	0 MHz	Verdict	
1 owel (VDO)	remperature ( 0)	Value	Limits (Hz)		
		(Hz)	Lillius (112)		
	-30	0.01			
	-20	0.66		Pass	
	-10	-0.17	±1775		
	0	-0.4			
	10	0			
5	20	-1.27			
	25	-0.56			
	30	0.86			
	40	0.84			
	50	-0.33			
	55	-0.27			
4.75	25	0.16			
5.25	25	1.36			



## LTE Band 66 QPSK 10 MHz

Test Conditions		Frequen	Frequency Deviation		
2 4 5 6	_		MCH 1745 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-3.42			
	-20	-4.09		Pass	
	-10	-3.75	±4362.5		
	0	-2.4			
	10	-3.52			
5	20	-2.92			
	25	-3.38			
	30	-3.82			
	40	-2.46			
	50	-1.44			
	55	-3.69			
4.75	25	-1.89			
5.25	25	-3.39			

# LTE Band 66 16QAM10 MHz

Test Conditions		Frequency Deviation			
		MCH		Verdict	
Power (VDC)	Temperature (°C)	174	1745 MHz		
1 OWEI (VDO)	remperature ( 0)	Value	Limits (Hz)		
		(Hz)	Lillius (FIZ)		
	-30	-2.88			
	-20	-3.59		Pass	
	-10	-2.27	±4362.5		
	0	-2.47			
	10	-3.75			
5	20	-1.57			
	25	-2.37			
	30	-2.09			
	40	-2.65			
	50	-2.02	]		
	55	-3.25			
4.75	25	-2.69			
5.25	25	-1.75			



#### A.5 Spurious Emission at Antenna Terminals

Note 1: Only the worst data with different bandwidth for LTE are shown here.

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

Note 3: Test plots please refer to the document "Annex No.: BL-SZ19A0286-501 Data Part 3.pdf".

#### WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	Verdict
	LCH	1.1	Pass
WCDMA Band 2	MCH	1.2	Pass
	HCH	1.3	Pass
WCDMA Band 4	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
	LCH	3.1	Pass
WCDMA Band 5	MCH	3.2	Pass
	HCH	3.3	Pass



# LTE Mode Test Verdict

Test	Test	Test	Test	Test RB	Refer to	Manaliat
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note3</sup>	Verdict
			QPSK	RB1#0	4.1	Pass
		LCH	16-QAM	RB1#0	4.2	Pass
	4 4 14 1-	MCII	QPSK	RB1#0	4.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	4.4	Pass
		11611	QPSK	RB1#0	4.5	Pass
		HCH	16-QAM	RB1#0	4.6	Pass
		LCH	QPSK	RB1#0	4.7	Pass
		LCH	16-QAM	RB1#0	4.8	Pass
	3 MHz	MCH	QPSK	RB1#0	4.9	Pass
	3 IVITIZ	IVICH	16-QAM	RB1#0	4.10	Pass
		НСН	QPSK	RB1#0	4.11	Pass
		ПОП	16-QAM	RB1#0	4.12	Pass
		LCH	QPSK	RB1#0	4.13	Pass
		LCH	16-QAM	RB1#0	4.14	Pass
	5 MHz	MCH	QPSK	RB1#0	4.15	Pass
	3 MI⊓2	MCH	16-QAM	RB1#0	4.16	Pass
		НСН	QPSK	RB1#0	4.17	Pass
Band 2			16-QAM	RB1#0	4.18	Pass
Danu Z		LCH	QPSK	RB1#0	4.19	Pass
			16-QAM	RB1#0	4.20	Pass
	10 MHz	MCH	QPSK	RB1#0	4.21	Pass
	10 1011 12		16-QAM	RB1#0	4.22	Pass
		HCH	QPSK	RB1#0	4.23	Pass
		11011	16-QAM	RB1#0	4.24	Pass
		LCH	QPSK	RB1#0	4.25	Pass
		LOIT	16-QAM	RB1#0	4.26	Pass
	15 MHz	MCH	QPSK	RB1#0	4.27	Pass
	13 1011 12	IVICIT	16-QAM	RB1#0	4.28	Pass
		HCH	QPSK	RB1#0	4.29	Pass
		11011	16-QAM	RB1#0	4.30	Pass
		LCH	QPSK	RB1#0	4.31	Pass
		LON	16-QAM	RB1#0	4.32	Pass
	20 MHz	MCH	QPSK	RB1#0	4.33	Pass
	ZU IVITZ	IVICH	16-QAM	RB1#0	4.34	Pass
		НСН	QPSK	RB1#0	4.35	Pass
		11011	16-QAM	RB1#0	4.36	Pass



Test	Test	Test	Test	Test RB	Refer to	Mandat
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note3</sup>	Verdict
		LCH	QPSK	RB1#0	5.1	Pass
			16-QAM	RB1#0	5.2	Pass
	4 4 1 1 1 -	MOLL	QPSK	RB1#0	5.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	5.4	Pass
		11011	QPSK	RB1#0	5.5	Pass
		HCH	16-QAM	RB1#0	5.6	Pass
		1 (11	QPSK	RB1#0	5.7	Pass
		LCH	16-QAM	RB1#0	5.8	Pass
	2 MILL	MCII	QPSK	RB1#0	5.9	Pass
	3 MHz	MCH	16-QAM	RB1#0	5.10	Pass
		ПСП	QPSK	RB1#0	5.11	Pass
		HCH	16-QAM	RB1#0	5.12	Pass
		I CH	QPSK	RB1#0	5.13	Pass
		LCH	16-QAM	RB1#0	5.14	Pass
	E N41.1-	MCH	QPSK	RB1#0	5.15	Pass
	5 MHz		16-QAM	RB1#0	5.16	Pass
		HCH	QPSK	RB1#0	5.17	Pass
Band 4			16-QAM	RB1#0	5.18	Pass
Danu 4		LCH	QPSK	RB1#0	5.19	Pass
			16-QAM	RB1#0	5.20	Pass
	10 MHz	MCH	QPSK	RB1#0	5.21	Pass
	10 MHZ		16-QAM	RB1#0	5.22	Pass
		HCH	QPSK	RB1#0	5.23	Pass
		ПСП	16-QAM	RB1#0	5.24	Pass
	LCH	I CH	QPSK	RB1#0	5.25	Pass
		LOTT	16-QAM	RB1#0	5.26	Pass
	15 MHz	MCH	QPSK	RB1#0	5.27	Pass
	13 1011 12	IVICIT	16-QAM	RB1#0	5.28	Pass
		HCH	QPSK	RB1#0	5.29	Pass
		11011	16-QAM	RB1#0	5.30	Pass
		LCH	QPSK	RB1#0	5.31	Pass
		LOIT	16-QAM	RB1#0	5.32	Pass
	20 MHz	MCH	QPSK	RB1#0	5.33	Pass
	ZU IVITZ	IVICH	16-QAM	RB1#0	5.34	Pass
		НСН	QPSK	RB1#0	5.35	Pass
			16-QAM	RB1#0	5.36	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
		1.011	QPSK	RB1#0	6.1	Pass
		LCH	16-QAM	RB1#0	6.2	Pass
	4 4 1 1 1 -	MOLL	QPSK	RB1#0	6.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	6.4	Pass
		ПСП	QPSK	RB1#0	6.5	Pass
		HCH	16-QAM	RB1#0	6.6	Pass
		LCU	QPSK	RB1#0	6.7	Pass
		LCH	16-QAM	RB1#0	6.8	Pass
	3 MHz	MCH	QPSK	RB1#0	6.9	Pass
	3 IVITZ	IVICH	16-QAM	RB1#0	6.10	Pass
		HCH	QPSK	RB1#0	6.11	Pass
Band 5		пСп	16-QAM	RB1#0	6.12	Pass
Band 5		LCH	QPSK	RB1#0	6.13	Pass
		LCH	16-QAM	RB1#0	6.14	Pass
	5 MHz	MCH	QPSK	RB1#0	6.15	Pass
	5 IVITZ	IVICH	16-QAM	RB1#0	6.16	Pass
		HCH	QPSK	RB1#0	6.17	Pass
		пСп	16-QAM	RB1#0	6.18	Pass
		LCH	QPSK	RB1#0	6.19	Pass
		LCH	16-QAM	RB1#0	6.20	Pass
	10 MHz	MCH	QPSK	RB1#0	6.21	Pass
	IU IVIDZ	IVICH	16-QAM	RB1#0	6.22	Pass
		ПСП	QPSK	RB1#0	6.23	Pass
		HCH	16-QAM	RB1#0	6.24	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to	Verdict
Dana	Danawiatii	Onamici	QPSK	RB1#0	7.1	Pass
		LCH	16-QAM	RB1#0	7.2	Pass
			QPSK	RB1#0	7.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	7.4	Pass
			QPSK	RB1#0	7.5	Pass
		HCH	16-QAM	RB1#0	7.6	Pass
			QPSK	RB1#0	7.7	Pass
		LCH	16-QAM	RB1#0	7.8	Pass
			QPSK	RB1#0	7.9	Pass
	3 MHz	MCH	16-QAM	RB1#0	7.10	Pass
			QPSK	RB1#0	7.11	Pass
		HCH	16-QAM	RB1#0	7.12	Pass
Band 12			QPSK	RB1#0	7.13	Pass
		LCH	16-QAM	RB1#0	7.14	Pass
	5 NALL	MOLL	QPSK	RB1#0	7.15	Pass
	5 MHz	MCH	16-QAM	RB1#0	7.16	Pass
		11011	QPSK	RB1#0	7.17	Pass
		HCH	16-QAM	RB1#0	7.18	Pass
		1 (11	QPSK	RB1#0	7.19	Pass
		LCH	16-QAM	RB1#0	7.20	Pass
	10 MH-	MCII	QPSK	RB1#0	7.21	Pass
	10 MHz	MCH	16-QAM	RB1#0	7.22	Pass
		LICIT	QPSK	RB1#0	7.23	Pass
		HCH	16-QAM	RB1#0	7.24	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note3</sup>	verdict
		LCH	QPSK	RB1#0	8.1	Pass
		LCH	16-QAM	RB1#0	8.2	Pass
	5 MHz	MCH	QPSK	RB1#0	8.3	Pass
Band 14	O IVITZ	IVICH	16-QAM	RB1#0	8.4	Pass
Dallu 14		HCH	QPSK	RB1#0	8.5	Pass
		пСп	16-QAM	RB1#0	8.6	Pass
	10 MHz	MCH	QPSK	RB1#0	8.7	Pass
	I I VITZ	IVICH	16-QAM	RB1#0	8.8	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
		LCH	QPSK	RB1#0	9.1	Pass
		LCH	16-QAM	RB1#0	9.2	Pass
	5 MHz	MCH	QPSK	RB1#0	9.3	Pass
	O IVITZ	IVICH	16-QAM	RB1#0	9.4	Pass
		HCH	QPSK	RB1#0	9.5	Pass
Band 17		пСп	16-QAM	RB1#0	9.6	Pass
Dallu 17		LCH	QPSK	RB1#0	9.7	Pass
		LCH	16-QAM	RB1#0	9.8	Pass
	10 MH I=	MCH	QPSK	RB1#0	9.9	Pass
	10 MHz	IVICH	16-QAM	RB1#0	9.10	Pass
		ПСП	QPSK	RB1#0	9.11	Pass
		HCH	16-QAM	RB1#0	9.12	Pass



Test	Test	Test	Test	Test RB	Refer to	Manaliat
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note3</sup>	Verdict
		1.011	QPSK	RB1#0	10.1	Pass
		LCH	16-QAM	RB1#0	10.2	Pass
	4 4 14 14	MCII	QPSK	RB1#0	10.3	Pass
	1.4 MHz	MCH	16-QAM	RB1#0	10.4	Pass
		11011	QPSK	RB1#0	10.5	Pass
		HCH	16-QAM	RB1#0	10.6	Pass
		LCH	QPSK	RB1#0	10.7	Pass
		LCH	16-QAM	RB1#0	10.8	Pass
	3 MHz	MCH	QPSK	RB1#0	10.9	Pass
	3 IVITZ	IVICT	16-QAM	RB1#0	10.10	Pass
		HCH	QPSK	RB1#0	10.11	Pass
		ПОП	16-QAM	RB1#0	10.12	Pass
		LCH	QPSK	RB1#0	10.13	Pass
		LOT	16-QAM	RB1#0	10.14	Pass
	5 MHz	MCH	QPSK	RB1#0	10.15	Pass
	3 MITZ	IVICH	16-QAM	RB1#0	10.16	Pass
		НСН	QPSK	RB1#0	10.17	Pass
Band 66		ПОП	16-QAM	RB1#0	10.18	Pass
Dallu 00		LCH	QPSK	RB1#0	10.19	Pass Pass
			16-QAM	RB1#0	10.20	Pass
	10 MHz	MCH	QPSK	RB1#0	10.21	Pass
	10 1011 12	IVICIT	16-QAM	RB1#0	10.22	Pass
		HCH	QPSK	RB1#0	10.23	Pass
		11011	16-QAM	RB1#0	10.24	Pass
		LCH	QPSK	RB1#0	10.25	Pass
		LOIT	16-QAM	RB1#0	10.26	Pass
	15 MHz	MCH	QPSK	RB1#0	10.27	Pass
	13 1011 12	IVIOIT	16-QAM	RB1#0	10.28	Pass
		HCH	QPSK	RB1#0	10.29	Pass
		11011	16-QAM	RB1#0	10.30	Pass
		LCH	QPSK	RB1#0	10.31	Pass
		LOIT	16-QAM	RB1#0	10.32	Pass
	20 MHz	MCH	QPSK	RB1#0	10.33	Pass
	ZU IVII IZ	IVICII	16-QAM	RB1#0	10.34	Pass
		НСН	QPSK	RB1#0	10.35	Pass
		11011	16-QAM	RB1#0	10.36	Pass



### A.6 Band Edge

Note 1: Test plots please refer to the document "Annex No.: BL-SZ19A0286-501 Data Part 4.pdf".

# WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note1</sup>	Verdict
WCDMA Band 2	LCH	1.1	Pass
WODIVIA Ballu Z	HCH	1.2	Pass
WCDMA Dand 4	LCH	2.1	Pass
WCDMA Band 4	HCH	2.2	Pass
WCDMA Dond C	LCH	3.1	Pass
WCDMA Band 5	HCH	3.2	Pass



### LTE Mode Test Verdict

Test	Test	Test	Test	Test RB	Refer to	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note1</sup>	Verdict
			0.0014	RB1#0	4.1	Pass
			QPSK	RB6#0	4.2	Pass Pass Pass Pass Pass Pass Pass Pass
		LCH		RB1#0	4.3	Pass
			16-QAM	RB6#0	4.4	Pass
	1.4 MHz		0.0014	RB1#5	4.5	Pass
			QPSK	RB6#0	4.6	Pass
		HCH	40.0414	RB1#5	4.7	Pass
			16-QAM	RB6#0	4.8	Pass
			o Dolé	RB1#0	4.9	Pass
			QPSK	RB15#0	4.10	Pass
		LCH	40.0414	RB1#0	4.11	Pass
	0.1411		16-QAM	RB15#0	4.12	Pass
	3 MHz		o Dolé	RB1#14	4.13	Pass
		11011	QPSK	RB15#0	4.14	Pass
		HCH	40.0414	RB1#14	4.15	Pass
			16-QAM	RB15#0	4.16	Pass
			ODOK	RB1#0	4.17	Pass
		1.011	QPSK	RB25#0	4.18	Pass
		LCH	40.0004	RB1#0	4.19	Pass
	5 NALI-		16-QAM	RB25#0	4.20	Pass
Band 2	5 MHz		ODCK	RB1#24	4.21	Pass
		ПСП	QPSK	RB25#0	4.22	Pass
		HCH	40 0 4 14	RB1#24	4.23	Pass
			16-QAM	RB25#0	4.24	Pass
			O DOL	RB1#0	4.25	Pass
		1.011	QPSK	RB50#0	4.26	Pass
		LCH	16 OAM	RB1#0	4.27	Pass
	10 MH I=		16-QAM	RB50#0	4.28	Pass
	10 MHz		ODCK	RB1#49	4.29	Pass
		ПСП	QPSK	RB50#0	4.30	Pass
		HCH	16 OAM	RB1#49	4.31	Pass
			16-QAM	RB50#0	4.32	Pass
			ODSIA	RB1#0	4.33	Pass
		LCH	QPSK	RB75#0	4.34	Pass
		LON	16 0 14	RB1#0	4.35	Pass
	15 MHz		16-QAM	RB75#0	4.36	Pass
	I S IVITZ		QPSK	RB1#74	4.37	Pass
		псп	Uron	RB75#0	4.38	Pass
		HCH	16 0 0 0 0 0	RB1#74	4.39	Pass
			16-QAM	RB75#0	4.40	Pass
	20 MHz	LCH	QPSK	RB1#0	4.41	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Danu	Daridwidti	Charine	Wode	,		Dana
				RB100#0	4.42	Pass
			4C OAM	RB1#0	4.43	Pass
			16-QAM	RB100#0	4.44	Pass
			QPSK	RB1#99	4.45	Pass
		ПСП	QPSK	RB100#0	4.46	Pass
		HCH	16 OAM	RB1#99	4.47	Pass
			16-QAM	RB100#0	4.48	Pass



Test	Test	Test	Test	Test RB	Refer to	
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note1</sup>	Verdict
				RB1#0	5.1	Pass
			QPSK	RB6#0	5.2	Pass
		LCH		RB1#0	5.3	Pass
			16-QAM	RB6#0	5.4	Pass
	1.4 MHz			RB1#5	5.5	Pass
			QPSK	RB6#0	5.6	Pass
		HCH	40.0414	RB1#5	5.7	Pass Pass Pass Pass
			16-QAM	RB6#0	5.8	Pass
			0.0014	RB1#0	5.9	Pass
			QPSK	RB15#0	5.10	Pass
		LCH	10.011	RB1#0	5.11	Pass
			16-QAM	RB15#0	5.12	Pass
	3 MHz		0.0014	RB1#14	5.13	Pass
			QPSK	RB15#0	5.14	Pass
		HCH		RB1#14	5.15	Pass
			16-QAM	RB15#0	5.16	Pass
				RB1#0	5.17	
			QPSK	RB25#0	5.18	Pass
		LCH		RB1#0	5.19	Pass
			16-QAM	RB25#0	5.20	Pass
	5 MHz		0.0014	RB1#24	5.21	Pass
Band 4			QPSK	RB25#0	5.22	Pass
		HCH	10.011	RB1#24	5.23	Pass
			16-QAM	RB25#0	5.24	Pass
			0.0014	RB1#0	5.25	Pass
		1.011	QPSK	RB50#0	5.26	Pass Pass Pass Pass Pass Pass Pass Pass
		LCH	40.0414	RB1#0	5.27	Pass
	40.841.1		16-QAM	RB50#0	5.28	Pass
	10 MHz		O DOL	RB1#49	5.29	Pass
		11011	QPSK	RB50#0	5.30	Pass
		HCH	40.0414	RB1#49	5.31	Pass
			16-QAM	RB50#0	5.32	Pass
			O DOL	RB1#0	5.33	Pass
			QPSK	RB75#0	5.34	Pass
		LCH	40.0414	RB1#0	5.35	Pass
	45.41.		16-QAM	RB75#0	5.36	Pass
	15 MHz		00011	RB1#74	5.37	Pass
		11011	QPSK	RB75#0	5.38	Pass
		HCH	40.04.	RB1#74	5.39	Pass
			16-QAM	RB75#0	5.40	Pass
	00.1411	1.01.	00011	RB1#0	5.41	Pass
	20 MHz	LCH	QPSK	RB100#0	5.42	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
			16-QAM	RB1#0	5.43	Pass
			10-QAIVI	RB100#0	5.44	Pass
			ODSK	RB1#99		Pass
		ПСП	QPSK	RB100#0	5.46	Pass
		HCH	16 0 4 14	RB1#99	5.47	Pass
			16-QAM	RB100#0	5.48	Pass



Test	Test	Test	Test	Test RB	Refer to	Vardiet
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note1</sup>	Verdict
			ODOK	RB1#0	6.1	Pass
		1.011	QPSK	RB6#0	6.2	Pass
		LCH	4C OAM	RB1#0	6.3	Pass
	1.4 MHz		16-QAM	RB6#0	6.4	Pass
	1.4 IVIDZ		QPSK	RB1#5	6.5	Pass
		НСН	QP3K	RB6#0	6.6	Pass
		пСп	16-QAM	RB1#5	6.7	Pass Pass Pass Pass Pass Pass Pass Pass
			10-QAW	RB6#0	6.8	Pass
			QPSK	RB1#0	6.9	Pass
		LCH	QPSK	RB15#0	6.10	Pass
		LCH	16-QAM	RB1#0	6.11	Pass
	3 MHz		10-QAW	RB15#0	6.12	Pass
	3 IVITZ		QPSK	RB1#14	6.13	Pass
		НСН	QPSK	RB15#0	6.14	Pass
		поп	16-QAM	RB1#14	6.15	Pass
Band 5			10-QAW	RB15#0	6.16	Pass
Danu 3			QPSK	RB1#0	6.17	Pass
		LCH	QFSK	RB25#0	6.18	Pass
		LOH	16-QAM	RB1#0	6.19	Pass
	5 MHz		10-QAW	RB25#0	6.20	Pass
	J IVII IZ		QPSK	RB1#24	6.21	Pass
		НСН	QFSK	RB25#0	6.22	Pass
		11011	16-QAM	RB1#24	6.23	Pass
			10-QAIVI	RB25#0	6.24	Pass
			QPSK	RB1#0	6.25	Pass
		LCH	QF3N	RB50#0	6.26	Pass
		LOIT	16-QAM	RB1#0	6.27	Pass
	10 MHz		IO-QAIVI	RB50#0	6.28	Pass
	I O IVII IZ		QPSK	RB1#49	6.29	Pass
		НСН	QF3N	RB50#0	6.30	Pass
		ПОП	16-QAM	RB1#49	6.31	Pass
				6.32	Pass	



Test	Test	Test	Test	Test RB	Refer to	Manaliat
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note1</sup>	Verdict
			07011	RB1#0	7.1	Pass
			QPSK	RB6#0	7.2	Pass Pass Pass Pass Pass Pass Pass Pass
		LCH	40.0414	RB1#0	7.3	
	4 4 5 4 1		16-QAM	RB6#0	7.4	Pass
	1.4 MHz		ODOK	RB1#5	7.5	Pass
		11011	QPSK	RB6#0	7.6	Pass Pass Pass Pass Pass Pass Pass Pass
		HCH	4C OAM	RB1#5	7.7	Pass
			16-QAM	RB6#0	7.8	Pass
			QPSK	RB1#0	7.9	Pass
		LCH	QP3K	RB15#0	7.10	Pass
		LCH	16 OAM	RB1#0	7.11	Pass
	3 MHz		16-QAM	RB15#0	7.12	Pass
	3 IVITZ		QPSK	RB1#14	7.13	Pass
		HCH	QPSK	RB15#0	7.14	Pass
		ПСП	16-QAM	RB1#14	7.15	Pass
Band			10-QAW	RB15#0	7.16	Pass
12			QPSK	RB1#0	7.17	Pass
		LCH	QFSK	RB25#0	7.18	Pass
		LOIT	16-QAM	RB1#0	7.19	Pass
	5 MHz		10-QAW	RB25#0	7.20	Pass
	J WII IZ		QPSK	RB1#24	7.21	Pass
		HCH	QFSK	RB25#0	7.22	Pass
		11011	16-QAM	RB1#24	7.23	Pass
			10-QAIVI	RB25#0	7.24	Pass
			QPSK	RB1#0	7.25	Pass
		LCH	Qi Si	RB50#0	7.26	Pass
		LOIT	16-QAM	RB1#0	7.27	Pass
	10 MHz		IO QAIVI	RB50#0	7.28	Pass
	I O IVII IZ		QPSK	RB1#49	7.29	Pass
		HCH	Qi Oit	RB50#0	7.30	Pass
		11011	16-QAM	RB1#49	7.31	Pass
			IO-QAIVI	RB50#0	7.32	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
			ODOK	RB1#0	8.1	Pass
		1.011	QPSK	RB25#0	8.2	Pass
		LCH	16 OAM	RB1#0	8.3	Pass
	5 MHz		16-QAM	RB25#0	8.4	Pass
	O IVITZ		QPSK	RB1#24	8.5	Pass
		НСН	QP3K	RB25#0	8.6	Pass
		пСп	16-QAM	RB1#24	8.7	Pass
Band			10-QAW	RB25#0	8.8	Pass
14			QPSK	RB1#0	8.9	Pass
		MCH	QFSK	RB50#0	8.10	Pass
		IVICH	16-QAM	RB1#0	8.11	Pass
	10 M⊔→		10-QAW	RB50#0	8.12	Pass
	10 MHz		QPSK	RB1#49	8.13	Pass
		МСП	QF3K	RB50#0	8.14	Pass
		MCH	16-QAM	RB1#49	8.15	Pass
			IU-QAW	RB50#0	8.16	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
			ODSK	RB1#0	9.1	Pass
		LCH	QPSK	RB25#0	9.2	Pass
		LCH	16-QAM	RB1#0	9.3	Pass
	5 MHz		10-QAIVI	RB25#0	9.4	Pass
	O IVITZ		QPSK	RB1#24	9.5	Pass
		HCH	QP3K	RB25#0	9.6	Pass
		поп	16-QAM	RB1#24	9.7	Pass
Band			10-QAIVI	RB25#0	9.8	Pass
17			QPSK	RB1#0	9.9	Pass
		LCH	QFSK	RB50#0	9.10	Pass
		LOH	16-QAM	RB1#0	9.11	Pass
	10 MHz		10-QAIVI	RB50#0	9.12	Pass
	I O IVITIZ		QPSK	RB1#49	9.13	Pass
		HCH	QF3K	RB50#0	9.14	Pass
		ПСП	16-QAM	RB1#49	9.15	Pass
			IO-QAIVI	RB50#0	9.16	Pass



Test	Test	Test	Test	Test RB	Refer to				
Band	Bandwidth	Channel	Mode		Plot <sup>Note1</sup>	Verdict			
				RB1#0	10.1	Pass			
			QPSK	RB6#0	10.2	Pass			
		LCH		RB1#0	10.3	Pass			
			16-QAM	RB6#0	10.4	Pass			
	1.4 MHz			RB1#5	10.5	Pass			
			QPSK	RB6#0	10.6	Pass			
		HCH	40.0414	RB1#5	10.7	Pass			
			16-QAM	RB6#0	10.8	Pass			
			0.0014	RB1#0	10.9	Pass			
			QPSK	RB15#0	10.10	Pass			
		LCH	10.011	RB1#0	10.11	Pass			
			16-QAM	RB15#0					
	3 MHz		O DOL	RB1#14	10.13	Pass			
		11011	QPSK	RB15#0	10.14	Pass			
		HCH	10.011	RB1#0 10.1 FRB6#0 10.2 FRB1#0 10.3 FRB6#0 10.4 FRB6#0 10.4 FRB6#0 10.6 FRB1#5 10.5 FRB6#0 10.6 FRB1#5 10.7 FRB6#0 10.8 FRB1#0 10.9 FRB15#0 10.10 FRB1#14 10.13 FRB1#14 10.13 FRB1#14 10.15 FRB1#14 10.15 FRB1#14 10.15 FRB1#14 10.15 FRB1#14 10.17 FRB1#14 10.17 FRB1#14 10.18 FRB1#14 10.19 FRB1#14 10.19 FRB1#14 10.19 FRB1#14 10.19 FRB1#14 10.19 FRB1#14 10.19 FRB1#14 10.20 FRB1#14 10.21 FRB1#14 10.21 FRB1#14 10.22 FRB1#24 10.22 FRB1#24 10.22 FRB1#24 10.23 FRB1#24 10.23 FRB1#24 10.23 FRB1#24 10.25 FRB1#14 10.35 FRB1#14 10.33 FRB1#14 10.34 FRB1#14 10.					
			16-QAM	RB15#0	10.16	Pass			
			0.0014	RB1#0	0.17 Pass				
			QPSK	RB25#0	10.18	Pass			
		LCH	10.011	RB1#0	10.19	Pass			
			16-QAM	RB25#0	10.20	Pass			
Band	5 MHz		O DOL	RB1#24	10.21	Pass Pass Pass Pass Pass Pass Pass			
66		11011	QPSK	RB25#0	10.22	Pass			
		HCH	40.0414	RB1#24	10.23	Pass			
			16-QAM	RB25#0	10.24	Pass			
			ODOK	RB1#0	10.25	Pass			
		1.011	QPSK	RB50#0	10.26	Pass			
		LCH	40.0004	RB1#0	10.27	Pass			
	40 MH		16-QAM	RB50#0	10.28	Pass			
	10 MHz		ODOK	RB1#49	10.29	Pass			
		11011	QPSK	RB50#0	10.30	Pass			
		HCH	4C OAM	RB1#49	10.31	Pass			
			16-QAM	RB50#0	10.32	Pass			
			ODOK	RB1#0	10.33	Pass			
		1.011	QPSK	RB75#0	10.34	Pass			
		LCH	40.0414	RB1#0	10.35	Pass			
	15 MHz -		16-QAM	RB75#0	10.36	Pass			
			ODOK	RB1#74	10.37	Pass			
		LICH	QPSK	RB75#0	10.38	Pass			
		HCH	40.044	RB1#74	10.39	Pass			
			16-QAM	RB75#0	10.40	Pass			
	20 MI	1.011	ODOK	RB1#0	10.41	Pass			
	20 MHz	LCH	QPSK	RB100#0	10.42	Pass			



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
			16 OAM	RB1#0	10.43	Pass
			16-QAM	RB100#0	10.44	Pass
			QPSK	RB1#99	10.45	Pass
		HCH	QPSK	RB100#0	10.46	Pass
		поп	16 OAM	RB1#99	10.47	Pass
			16-QAM	RB100#0	10.48	Pass



			Emission N	Mask		
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
			QPSK	RB1#0	11.1	Pass
		LCH	QPSK	RB25#0	11.2	Pass
		LOH	16-QAM	RB1#0	11.3	Pass
	5 MHz		10-QAW	RB25#0	11.4	Pass
5 IVINZ	O IVITIZ		QPSK	RB1#24	11.5	Pass
		HCH	QFSK	RB25#0	11.6	Pass
		11011	16-QAM	RB1#24	11.7	Pass
Band			10-QAW	RB25#0	11.8	Pass
14			QPSK	RB1#0	11.9	Pass
		MCH	QFSK	RB50#0	11.10	Pass
		(left)	16-QAM	RB1#0	11.11	Pass
	10 MHz		10-QAW	RB50#0	11.12	Pass
	IU IVIITZ		QPSK	RB1#49	11.13	Pass
		MCH	QF3N	RB50#0	11.14	Pass
		(right)	16-QAM	RB1#49	11.15	Pass
			IO-QAIVI	RB50#0	11.16	Pass



### A.7 Field Strength of Spurious Radiation

- Note 1: 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-SZ19A0286-501 Data Part 5.pdf".

### WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	Verdict
	LCH	1.1	Pass
WCDMA Band 2	MCH	1.2	Pass
	HCH	1.3	Pass
	LCH	2.1	Pass
WCDMA Band 4	MCH	2.2	Pass
	HCH	2.3	Pass
	LCH	3.1	Pass
WCDMA Band 5	MCH	3.2	Pass
	HCH	3.3	Pass



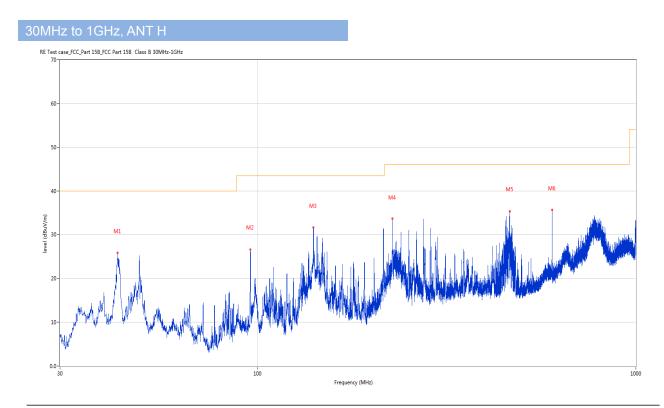
### LTE Mode Test Verdict

Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot <sup>Note3</sup>	verdict
	1.4 MHz	MCH	QPSK	RB1#0	4.1	Pass
	3 MHz	MCH	QPSK	RB1#0	4.2	Pass
Dond O	5 MHz	MCH	QPSK	RB1#0	4.3	Pass
Band 2	10 MHz	MCH	QPSK	RB1#0	4.4	Pass
	15 MHz	MCH	QPSK	RB1#0	4.5	Pass
	20 MHz	MCH	QPSK	RB1#0	4.6	Pass
	1.4 MHz	MCH	QPSK	RB1#0	5.1	Pass
	3 MHz	MCH	QPSK	RB1#0	5.2	Pass
Dond 4	5 MHz	MCH	QPSK	RB1#0	5.3	Pass
Band 4	10 MHz	MCH	QPSK	RB1#0	5.4	Pass
	15 MHz	MCH	QPSK	RB1#0	5.5	Pass
	20 MHz	MCH	QPSK	RB1#0	5.6	Pass
	1.4 MHz	MCH	QPSK	RB1#0	6.1	Pass
Band 5	3 MHz	MCH	QPSK	RB1#0	6.2	Pass
Danu 3	5 MHz	MCH	QPSK	RB1#0	6.3	Pass
	10 MHz	MCH	QPSK	RB1#0	6.4	Pass
	1.4 MHz	MCH	QPSK	RB1#0	7.1	Pass
Band 12	3 MHz	MCH	QPSK	RB1#0	7.2	Pass
Dallu 12	5 MHz	MCH	QPSK	RB1#0	7.3	Pass
	10 MHz	MCH	QPSK	RB1#0	7.4	Pass
Band 14	5 MHz	MCH	QPSK	RB1#0	8.1	Pass
Dallu 14	10 MHz	MCH	QPSK	RB1#0	8.2	Pass
Band 17	5 MHz	MCH	QPSK	RB1#0	9.1	Pass
Band 17	10 MHz	MCH	QPSK	RB1#0	9.2	Pass
	1.4 MHz	MCH	QPSK	RB1#0	10.1	Pass
	3 MHz	MCH	QPSK	RB1#0	10.2	Pass
Dond 66	5 MHz	MCH	QPSK	RB1#0	10.3	Pass
Band 66	10 MHz	MCH	QPSK	RB1#0	10.4	Pass
	15 MHz	MCH	QPSK	RB1#0	10.5	Pass
	20 MHz	MCH	QPSK	RB1#0	10.6	Pass



## A.8 Receiver Spurious Emissions

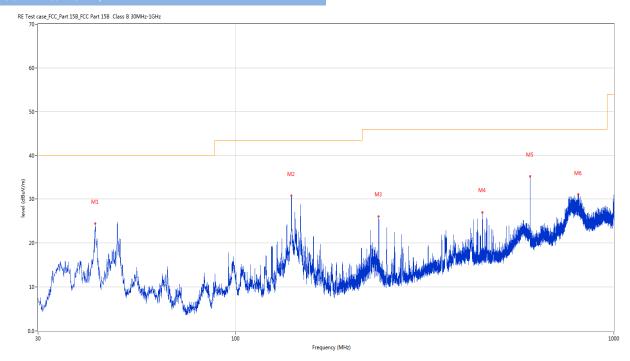
Note: Only the worst test results were recorded in this report.



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	42.610	25.78	-23.20	40.0	-14.22	Peak	266.20	200	Horizontal	Pass
2	95.669	26.53	-24.85	43.5	-16.97	Peak	278.80	200	Horizontal	Pass
3	140.289	31.62	-27.60	43.5	-11.88	Peak	257.80	200	Horizontal	Pass
4	226.958	33.55	-23.99	46.0	-12.45	Peak	277.80	100	Horizontal	Pass
5	463.881	35.40	-17.07	46.0	-10.60	Peak	360.00	200	Horizontal	Pass
6	600.020	35.73	-14.52	46.0	-10.27	Peak	257.80	200	Horizontal	Pass



#### 30MHz to 1GHz. ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	42.513	24.43	-23.22	40.0	-15.57	Peak	0.00	200	Vertical	Pass
2	140.386	30.77	-27.58	43.5	-12.73	Peak	360.00	100	Vertical	Pass
3	238.841	26.02	-23.19	46.0	-19.98	Peak	0.00	200	Vertical	Pass
4	448.555	26.94	-17.56	46.0	-19.06	Peak	344.80	100	Vertical	Pass
5	600.020	35.23	-14.52	46.0	-10.77	Peak	0.00	200	Vertical	Pass
6	805.903	31.05	-10.73	46.0	-14.95	Peak	149.50	100	Vertical	Pass



#### 1GHz to 12.75GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1404.300	36.08	-17.77	74.0	-37.92	Peak	270.50	100	Horizontal	Pass
1**	1404.300	27.36	-17.77	54.0	-26.64	AV	270.50	100	Horizontal	Pass
2	2640.300	39.76	-12.65	74.0	-34.24	Peak	360.00	100	Horizontal	Pass
2**	2640.300	31.56	-12.65	54.0	-22.44	AV	360.00	100	Horizontal	Pass
3	3573.400	42.44	-8.40	74.0	-31.56	Peak	36.40	100	Horizontal	Pass
3**	3573.400	34.08	-8.40	54.0	-19.92	AV	36.40	100	Horizontal	Pass
4	4986.000	44.71	-5.55	74.0	-29.29	Peak	344.10	100	Horizontal	Pass
4**	4986.000	35.40	-5.55	54.0	-18.60	AV	344.10	100	Horizontal	Pass
5	6507.200	46.15	-4.78	74.0	-27.85	Peak	83.10	100	Horizontal	Pass
5**	6507.200	36.70	-4.78	54.0	-17.30	AV	83.10	100	Horizontal	Pass
6	9419.312	46.12	17.46	74.0	-27.88	Peak	249.40	100	Horizontal	Pass
6**	9419.312	38.18	17.46	54.0	-15.82	AV	249.40	100	Horizontal	Pass



#### 1GHz to 12.75GHz, ANT V

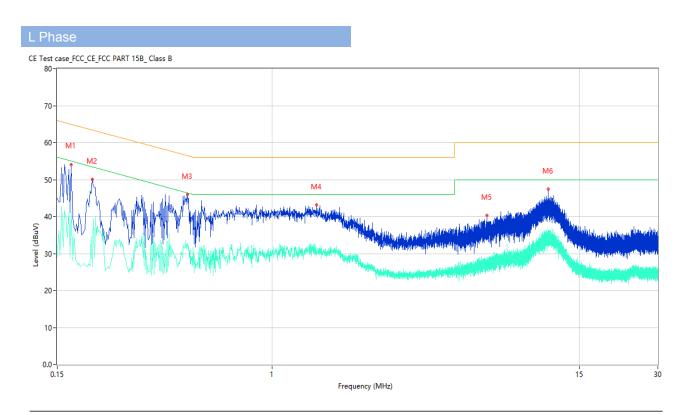


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1495.400	35.38	-18.20	74.0	-38.62	Peak	87.60	100	Vertical	Pass
1**	1495.400	27.22	-18.20	54.0	-26.78	AV	87.60	100	Vertical	Pass
2	2492.000	39.55	-13.26	74.0	-34.45	Peak	12.30	100	Vertical	Pass
2**	2492.000	31.20	-13.26	54.0	-22.80	AV	12.30	100	Vertical	Pass
3	3548.600	42.32	-8.48	74.0	-31.68	Peak	240.30	100	Vertical	Pass
3**	3548.600	33.74	-8.48	54.0	-20.26	AV	240.30	100	Vertical	Pass
4	5366.000	44.04	-5.21	74.0	-29.96	Peak	194.10	100	Vertical	Pass
4**	5366.000	35.44	-5.21	54.0	-18.56	AV	194.10	100	Vertical	Pass
5	7432.975	44.36	13.93	74.0	-29.64	Peak	5.20	100	Vertical	Pass
5**	7432.975	35.29	13.93	54.0	-18.71	AV	5.20	100	Vertical	Pass
6	9326.451	46.42	17.55	74.0	-27.58	Peak	50.40	100	Vertical	Pass
6**	9326.451	37.57	17.55	54.0	-16.43	AV	50.40	100	Vertical	Pass



### A.9 AC Power-line Conducted Emissions

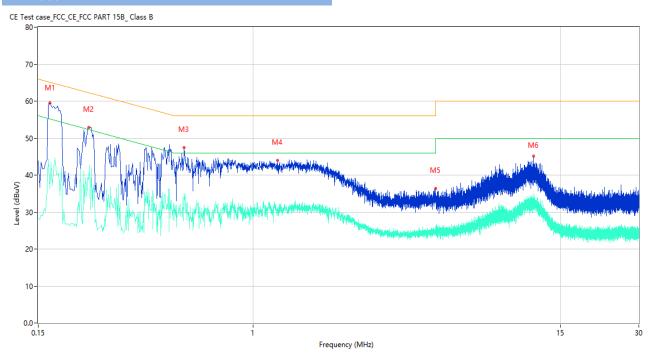
Note: Only the worst test results were recorded in this report.



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.170	54.12	10.40	64.96	-10.84	Peak	L	Pass
1**	0.170	41.33	10.40	54.96	-13.63	AV	L	Pass
2	0.204	50.07	10.38	63.45	-13.38	Peak	L	Pass
2**	0.204	26.38	10.38	53.45	-27.07	AV	L	Pass
3	0.474	45.92	10.30	56.44	-10.52	Peak	L	Pass
3**	0.474	32.81	10.30	46.44	-13.63	AV	L	Pass
4	1.482	43.12	10.25	56.00	-12.88	Peak	L	Pass
4**	1.482	29.21	10.25	46.00	-16.79	AV	L	Pass
5	6.660	40.40	10.34	60.00	-19.60	Peak	L	Pass
5**	6.660	28.46	10.34	50.00	-21.54	AV	L	Pass
6	11.430	47.46	10.38	60.00	-12.54	Peak	L	Pass
6**	11.430	35.19	10.38	50.00	-14.81	AV	L	Pass



#### N Phase



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.166	59.58	10.40	65.16	-5.58	Peak	N	Pass
1**	0.166	36.39	10.40	55.16	-18.77	AV	N	Pass
2	0.234	52.93	10.35	62.31	-9.38	Peak	N	Pass
2**	0.234	38.85	10.35	52.31	-13.46	AV	N	Pass
3	0.544	47.47	10.29	56.00	-8.53	Peak	N	Pass
3**	0.544	32.36	10.29	46.00	-13.64	AV	N	Pass
4	1.238	43.93	10.25	56.00	-12.07	Peak	N	Pass
4**	1.238	30.87	10.25	46.00	-15.13	AV	N	Pass
5	4.998	36.41	10.31	56.00	-19.59	Peak	N	Pass
5**	4.998	25.39	10.31	46.00	-20.61	AV	N	Pass
6	11.874	45.09	10.38	60.00	-14.91	Peak	N	Pass
6**	11.874	33.22	10.38	50.00	-16.78	AV	N	Pass



## ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ19A0286-AR.PDF".

## ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ19A0286-AW.PDF".

## ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-SZ19A0286-AI.PDF".

--END OF REPORT--