



RADIO TEST REPORT

Report No.:STS2201069W02

Issued for

Shenzhen Mytron Technology Limited

Room 603, Block 4, Tongtai Times Center, Fuyong, Bao'an District, Shenzhen, Guangdong, China.

Product Name:	mobile phone
Brand Name:	DIGICEL
Model Name:	DL4
Series Model:	N/A
FCC ID:	2A35K-DL4
Test Standard:	47 CFR Part 2, 24(E), 27

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.



**TEST RESULT CERTIFICATION**

Applicant's Name: Shenzhen Mytron Technology Limited
Address: Room 603, Block 4, Tongtai Times Center, Fuyong, Bao'an District, Shenzhen, Guangdong, China.
Manufacturer's Name: Shenzhen Mytron Technology Limited
Address: Room 603, Block 4, Tongtai Times Center, Fuyong, Bao'an District, Shenzhen, Guangdong, China.

Product Description

Product Name: mobile phone
Brand Name: DIGICEL
Model Name: DL4
Series Model: N/A
Test Standards: 47 CFR Part 2, 24(E), 27
Test Procedure: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test:
Date of receipt of test item: 23 Jan. 2022
Date (s) of performance of tests ..: 23 Jan. 2022 ~ 15 Feb. 2022
Date of Issue: 15 Feb. 2022
Test Result: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





Table of Contents	Page
1. TEST FACTORY & MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	15
4. PEAK-TO-AVERAGE RATIO	38
5. OCCUPIED BANDWIDTH	40
6. CONDUCTED BAND EDGE	43
7. CONDUCTED SPURIOUS EMISSION	45
8. RADIATED SPURIOUS EMISSION	46
9. FREQUENCY STABILITY	69
APPENDIX-PHOTOS OF TEST SETUP	75

**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	15 Feb. 2022	STS2201069W02	ALL	Initial Issue





1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	mobile phone
Trade Name	DIGICEL
Model Name	DL4
Series Model	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: LTE FDD Band 2 LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 12 LTE FDD Band 13
SIM Card	Only support single SIM Card.
Antenna	PIFA
Antenna gain	0dBi
Battery parameter	Rated Voltage:3.8V Charge Limit Voltage: 4.35V Capacity: 2950mA
Adapter	Input: AC 100-240V 50/60Hz 200mA Output: DC 5.0V 1000mA
Extreme Vol. Limits	4.35V to 3.6V (Nominal 3.8V)
Extreme Temp. Tolerance	-30℃ to +50℃
Hardware version number	N/A
Software version number	N/A

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz
Rx Frequency	LTE Band 2:1930 ~1990MHz LTE Band 4:2110~2155MHz LTE Band 5:869~894MHz LTE Band 12:729~746MHz LTE Band 13:746~756MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz
Maximum Output Power	LTE Band 2: 23.96 dBm LTE Band 4: 23.85 dBm LTE Band 5: 23.59 dBm LTE Band 12: 24.02 dBm LTE Band 13: 22.68 dBm
Type of Modulation	QPSK /16QAM

RF Function	Band	UE Category UL	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
LTE	FDD:2/4/5/12/13	4	UL: QPSK, 16QAM DL: QPSK, 16QAM	3	0	PIFA	1 SIM 1 is used to tested.



2.1.3 EMISSION DESIGNATOR

LTE Band 2	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M11W7D
3	2M69G7D	2M69W7D
5	4M53G7D	4M53W7D
10	8M95G7D	8M95W7D
15	13M5G7D	13M5W7D
20	18M0G7D	18M0W7D
LTE Band 4	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M69G7D	2M69W7D
5	4M53G7D	4M53W7D
10	8M95G7D	8M95W7D
15	13M5G7D	13M5W7D
20	18M0G7D	18M0W7D
LTE Band 5	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M69G7D	2M69W7D
5	4M52G7D	4M52W7D
10	8M95G7D	8M94W7D
LTE Band 12	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M69G7D	2M69W7D
5	4M53G7D	4M54W7D
10	8M97G7D	8M96W7D
LTE Band 13	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M50G7D	4M53W7D
10	8M93G7D	8M93W7D



2.1.4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v	
Peak&Avera Ratio	2						v	v	v	v		v	v	v	v
	4						v	v	v	v		v	v	v	v
	5				v			v	v	v		v	v	v	v
	12				v			v	v	v		v	v	v	v
	13				v			v	v	v		v		v	
26dB&99% Bandwidth	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v			v	v			v	v	v	v
	12	v	v	v	v			v	v			v	v	v	v
	13			v	v			v	v			v		v	
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v		v	v	v	v
	4	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v			v	v	v		v	v	v	v
	12	v	v	v	v			v	v	v		v	v	v	v
	13			v	v			v	v	v		v		v	
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v			v	v	v			v	v	v
	12	v	v	v	v			v	v	v			v	v	v
	13			v	v			v	v	v				v	
Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v			v				v		v	
	12				v			v				v		v	
	13				v			v				v		v	



E.R.P.& E.I.R.P.	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v		
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v	v
	5	v	v	v	v			v		v			v	v	v	v
	12	v	v	v	v			v		v			v	v	v	v
	13			v	v			v		v				v		





2.1.5 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27.

2.1.6 SPECIAL ACCESSORIES

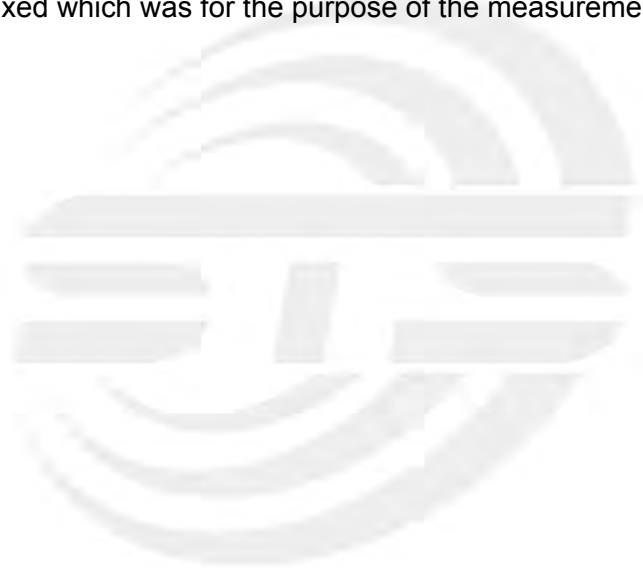
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.7 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.8 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.





2.1.9 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1
EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.1.10 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Signal Generator	Agilent	83752A	3610A02740	2021.09.30	2022.09.29
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	119907	2021.09.29	2022.09.28
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Signal Analyzer	Agilent	N9020A	MY52440124	2021.03.04	2022.03.03
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2021.10.08	2022.10.07
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Universal Radio communication tester	R&S	CMU200	119907	2021.09.29	2022.09.28
Test SW	FARAD	LZ-RF /LzRf-3A3			



2.1.11 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.



3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

CONDUCTED OUTPUT POWER:

A system simulator was used to establish communication with the eut. Its parameters were 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.

Configuration follows KDB 971168 D01 v03r01.

C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the 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 defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

(1) $ERP \text{ or } EIRP = P_{Meas} + GT$

$ERP = EIRP - 2.15$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

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

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a) $ERP = EIRP - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $EIRP = ERP + 2.15$, where ERP and EIRP are expressed in consistent units.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

1. The transmitter output port was connected to system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.1.4 TEST RESULTS

Radiated Power (EIRP) for LTE Band 2 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	23.21	0	23.21	2.00	33.01	PASS
		1	2		23.09	0	23.09	2.00	33.01	PASS
		1	5		22.90	0	22.90	2.00	33.01	PASS
		3	0		22.79	0	22.79	2.00	33.01	PASS
		3	1		22.72	0	22.72	2.00	33.01	PASS
		3	2		22.67	0	22.67	2.00	33.01	PASS
		6	0		22.57	0	22.57	2.00	33.01	PASS
		1	0	16QAM	23.15	0	23.15	2.00	33.01	PASS
		1	2		22.99	0	22.99	2.00	33.01	PASS
		1	5		22.77	0	22.77	2.00	33.01	PASS
		3	0		22.64	0	22.64	2.00	33.01	PASS
		3	1		22.58	0	22.58	2.00	33.01	PASS
		3	2		22.59	0	22.59	2.00	33.01	PASS
		6	0		22.42	0	22.42	2.00	33.01	PASS
	Middle	1	0	QPSK	23.32	0	23.32	2.00	33.01	PASS
		1	2		23.31	0	23.31	2.00	33.01	PASS
		1	5		23.16	0	23.16	2.00	33.01	PASS
		3	0		23.11	0	23.11	2.00	33.01	PASS
		3	1		23.08	0	23.08	2.00	33.01	PASS
		3	2		22.89	0	22.89	2.00	33.01	PASS
		6	0		22.70	0	22.70	2.00	33.01	PASS
		1	0	16QAM	23.16	0	23.16	2.00	33.01	PASS
		1	2		23.20	0	23.20	2.00	33.01	PASS
		1	5		23.15	0	23.15	2.00	33.01	PASS
		3	0		23.01	0	23.01	2.00	33.01	PASS
		3	1		22.99	0	22.99	2.00	33.01	PASS
		3	2		22.77	0	22.77	2.00	33.01	PASS
		6	0		22.62	0	22.62	2.00	33.01	PASS
	Highest	1	0	QPSK	23.42	0	23.42	2.00	33.01	PASS
		1	2		23.28	0	23.28	2.00	33.01	PASS
		1	5		23.27	0	23.27	2.00	33.01	PASS
		3	0		23.23	0	23.23	2.00	33.01	PASS
		3	1		23.14	0	23.14	2.00	33.01	PASS
		3	2		22.96	0	22.96	2.00	33.01	PASS
		6	0		22.82	0	22.82	2.00	33.01	PASS
		1	0	16QAM	23.34	0	23.34	2.00	33.01	PASS
		1	2		23.27	0	23.27	2.00	33.01	PASS
		1	5		23.24	0	23.24	2.00	33.01	PASS
		3	0		23.22	0	23.22	2.00	33.01	PASS
		3	1		23.02	0	23.02	2.00	33.01	PASS
		3	2		22.79	0	22.79	2.00	33.01	PASS
		6	0		22.68	0	22.68	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	23.26	0	23.26	2.00	33.01	PASS
		1	7		23.08	0	23.08	2.00	33.01	PASS
		1	14		22.92	0	22.92	2.00	33.01	PASS
		8	0		22.76	0	22.76	2.00	33.01	PASS
		8	4		22.74	0	22.74	2.00	33.01	PASS
		8	7		22.56	0	22.56	2.00	33.01	PASS
		15	0		22.53	0	22.53	2.00	33.01	PASS
		1	0	16QAM	23.19	0	23.19	2.00	33.01	PASS
		1	7		23.08	0	23.08	2.00	33.01	PASS
		1	14		22.86	0	22.86	2.00	33.01	PASS
		8	0		22.61	0	22.61	2.00	33.01	PASS
		8	4		22.62	0	22.62	2.00	33.01	PASS
		8	7		22.44	0	22.44	2.00	33.01	PASS
		15	0		22.43	0	22.43	2.00	33.01	PASS
	Middle	1	0	QPSK	23.36	0	23.36	2.00	33.01	PASS
		1	7		23.33	0	23.33	2.00	33.01	PASS
		1	14		23.20	0	23.20	2.00	33.01	PASS
		8	0		23.15	0	23.15	2.00	33.01	PASS
		8	4		22.96	0	22.96	2.00	33.01	PASS
		8	7		22.90	0	22.90	2.00	33.01	PASS
		15	0		22.72	0	22.72	2.00	33.01	PASS
		1	0	16QAM	23.26	0	23.26	2.00	33.01	PASS
		1	7		23.21	0	23.21	2.00	33.01	PASS
		1	14		23.11	0	23.11	2.00	33.01	PASS
		8	0		23.14	0	23.14	2.00	33.01	PASS
		8	4		22.85	0	22.85	2.00	33.01	PASS
		8	7		22.75	0	22.75	2.00	33.01	PASS
		15	0		22.67	0	22.67	2.00	33.01	PASS
	Highest	1	0	QPSK	23.45	0	23.45	2.00	33.01	PASS
		1	7		23.44	0	23.44	2.00	33.01	PASS
		1	14		23.33	0	23.33	2.00	33.01	PASS
		8	0		23.26	0	23.26	2.00	33.01	PASS
		8	4		23.09	0	23.09	2.00	33.01	PASS
		8	7		23.03	0	23.03	2.00	33.01	PASS
		15	0		23.00	0	23.00	2.00	33.01	PASS
		1	0	16QAM	23.37	0	23.37	2.00	33.01	PASS
		1	7		23.38	0	23.38	2.00	33.01	PASS
		1	14		23.30	0	23.30	2.00	33.01	PASS
		8	0		23.25	0	23.25	2.00	33.01	PASS
		8	4		23.06	0	23.06	2.00	33.01	PASS
		8	7		22.87	0	22.87	2.00	33.01	PASS
		15	0		22.93	0	22.93	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	23.42	0	23.42	2.00	33.01	PASS
		1	12		23.24	0	23.24	2.00	33.01	PASS
		1	24		23.20	0	23.20	2.00	33.01	PASS
		12	0		23.11	0	23.11	2.00	33.01	PASS
		12	6		22.94	0	22.94	2.00	33.01	PASS
		12	11		22.78	0	22.78	2.00	33.01	PASS
		25	0		22.65	0	22.65	2.00	33.01	PASS
		1	0	16QAM	23.28	0	23.28	2.00	33.01	PASS
		1	12		23.21	0	23.21	2.00	33.01	PASS
		1	24		23.05	0	23.05	2.00	33.01	PASS
		12	0		23.09	0	23.09	2.00	33.01	PASS
		12	6		22.82	0	22.82	2.00	33.01	PASS
		12	11		22.58	0	22.58	2.00	33.01	PASS
		25	0		22.48	0	22.48	2.00	33.01	PASS
	Middle	1	0	QPSK	23.49	0	23.49	2.00	33.01	PASS
		1	12		23.36	0	23.36	2.00	33.01	PASS
		1	24		23.22	0	23.22	2.00	33.01	PASS
		12	0		23.19	0	23.19	2.00	33.01	PASS
		12	6		23.17	0	23.17	2.00	33.01	PASS
		12	11		23.13	0	23.13	2.00	33.01	PASS
		25	0		23.04	0	23.04	2.00	33.01	PASS
		1	0	16QAM	23.31	0	23.31	2.00	33.01	PASS
		1	12		23.22	0	23.22	2.00	33.01	PASS
		1	24		23.07	0	23.07	2.00	33.01	PASS
		12	0		23.03	0	23.03	2.00	33.01	PASS
		12	6		23.11	0	23.11	2.00	33.01	PASS
		12	11		23.10	0	23.10	2.00	33.01	PASS
		25	0		23.03	0	23.03	2.00	33.01	PASS
	Highest	1	0	QPSK	23.51	0	23.51	2.00	33.01	PASS
		1	12		23.50	0	23.50	2.00	33.01	PASS
		1	24		23.31	0	23.31	2.00	33.01	PASS
		12	0		23.24	0	23.24	2.00	33.01	PASS
		12	6		23.19	0	23.19	2.00	33.01	PASS
		12	11		23.00	0	23.00	2.00	33.01	PASS
		25	0		22.87	0	22.87	2.00	33.01	PASS
		1	0	16QAM	23.49	0	23.49	2.00	33.01	PASS
		1	12		23.47	0	23.47	2.00	33.01	PASS
		1	24		23.30	0	23.30	2.00	33.01	PASS
		12	0		23.11	0	23.11	2.00	33.01	PASS
		12	6		23.09	0	23.09	2.00	33.01	PASS
		12	11		22.87	0	22.87	2.00	33.01	PASS
		25	0		22.85	0	22.85	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	23.49	0	23.49	2.00	33.01	PASS
		1	24		23.37	0	23.37	2.00	33.01	PASS
		1	49		23.22	0	23.22	2.00	33.01	PASS
		25	0		23.07	0	23.07	2.00	33.01	PASS
		25	12		23.01	0	23.01	2.00	33.01	PASS
		25	24		22.86	0	22.86	2.00	33.01	PASS
		50	0		22.85	0	22.85	2.00	33.01	PASS
		1	0	16QAM	23.37	0	23.37	2.00	33.01	PASS
		1	24		23.28	0	23.28	2.00	33.01	PASS
		1	49		23.07	0	23.07	2.00	33.01	PASS
		25	0		22.90	0	22.90	2.00	33.01	PASS
		25	12		22.88	0	22.88	2.00	33.01	PASS
		25	24		22.73	0	22.73	2.00	33.01	PASS
		50	0		22.78	0	22.78	2.00	33.01	PASS
	Middle	1	0	QPSK	23.53	0	23.53	2.00	33.01	PASS
		1	24		23.47	0	23.47	2.00	33.01	PASS
		1	49		23.42	0	23.42	2.00	33.01	PASS
		25	0		23.33	0	23.33	2.00	33.01	PASS
		25	12		23.21	0	23.21	2.00	33.01	PASS
		25	24		23.13	0	23.13	2.00	33.01	PASS
		50	0		22.99	0	22.99	2.00	33.01	PASS
		1	0	16QAM	23.40	0	23.40	2.00	33.01	PASS
		1	24		23.36	0	23.36	2.00	33.01	PASS
		1	49		23.29	0	23.29	2.00	33.01	PASS
		25	0		23.13	0	23.13	2.00	33.01	PASS
		25	12		23.02	0	23.02	2.00	33.01	PASS
		25	24		23.10	0	23.10	2.00	33.01	PASS
		50	0		22.93	0	22.93	2.00	33.01	PASS
	Highest	1	0	QPSK	23.59	0	23.59	2.00	33.01	PASS
		1	24		23.56	0	23.56	2.00	33.01	PASS
		1	49		23.41	0	23.41	2.00	33.01	PASS
		25	0		23.40	0	23.40	2.00	33.01	PASS
		25	12		23.33	0	23.33	2.00	33.01	PASS
		25	24		23.21	0	23.21	2.00	33.01	PASS
		50	0		23.03	0	23.03	2.00	33.01	PASS
		1	0	16QAM	23.50	0	23.50	2.00	33.01	PASS
		1	24		23.49	0	23.49	2.00	33.01	PASS
		1	49		23.39	0	23.39	2.00	33.01	PASS
		25	0		23.24	0	23.24	2.00	33.01	PASS
		25	12		23.25	0	23.25	2.00	33.01	PASS
		25	24		23.03	0	23.03	2.00	33.01	PASS
		50	0		22.95	0	22.95	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	23.56	0	23.56	2.00	33.01	PASS
		1	37		23.38	0	23.38	2.00	33.01	PASS
		1	74		23.25	0	23.25	2.00	33.01	PASS
		36	0		23.10	0	23.10	2.00	33.01	PASS
		36	18		22.92	0	22.92	2.00	33.01	PASS
		36	39		22.75	0	22.75	2.00	33.01	PASS
		75	0		22.73	0	22.73	2.00	33.01	PASS
		1	0	16QAM	23.49	0	23.49	2.00	33.01	PASS
		1	37		23.19	0	23.19	2.00	33.01	PASS
		1	74		23.21	0	23.21	2.00	33.01	PASS
		36	0		23.06	0	23.06	2.00	33.01	PASS
		36	18		22.82	0	22.82	2.00	33.01	PASS
		36	39		22.58	0	22.58	2.00	33.01	PASS
		75	0		22.67	0	22.67	2.00	33.01	PASS
	Middle	1	0	QPSK	23.62	0	23.62	2.00	33.01	PASS
		1	37		23.59	0	23.59	2.00	33.01	PASS
		1	74		23.40	0	23.40	2.00	33.01	PASS
		36	0		23.22	0	23.22	2.00	33.01	PASS
		36	18		23.03	0	23.03	2.00	33.01	PASS
		36	39		22.83	0	22.83	2.00	33.01	PASS
		75	0		22.66	0	22.66	2.00	33.01	PASS
		1	0	16QAM	23.60	0	23.60	2.00	33.01	PASS
		1	37		23.44	0	23.44	2.00	33.01	PASS
		1	74		23.31	0	23.31	2.00	33.01	PASS
		36	0		23.09	0	23.09	2.00	33.01	PASS
		36	18		22.87	0	22.87	2.00	33.01	PASS
		36	39		22.68	0	22.68	2.00	33.01	PASS
		75	0		22.56	0	22.56	2.00	33.01	PASS
	Highest	1	0	QPSK	23.68	0	23.68	2.00	33.01	PASS
		1	37		23.66	0	23.66	2.00	33.01	PASS
		1	74		23.53	0	23.53	2.00	33.01	PASS
		36	0		23.36	0	23.36	2.00	33.01	PASS
		36	18		23.21	0	23.21	2.00	33.01	PASS
		36	39		23.19	0	23.19	2.00	33.01	PASS
		75	0		23.14	0	23.14	2.00	33.01	PASS
		1	0	16QAM	23.55	0	23.55	2.00	33.01	PASS
		1	37		23.50	0	23.50	2.00	33.01	PASS
		1	74		23.52	0	23.52	2.00	33.01	PASS
		36	0		23.32	0	23.32	2.00	33.01	PASS
		36	18		23.06	0	23.06	2.00	33.01	PASS
		36	39		23.02	0	23.02	2.00	33.01	PASS
		75	0		23.07	0	23.07	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	23.89	0	23.89	2.00	33.01	PASS
		1	49		23.76	0	23.76	2.00	33.01	PASS
		1	99		23.68	0	23.68	2.00	33.01	PASS
		50	0		23.63	0	23.63	2.00	33.01	PASS
		50	24		23.54	0	23.54	2.00	33.01	PASS
		50	49		23.45	0	23.45	2.00	33.01	PASS
		100	0		23.32	0	23.32	2.00	33.01	PASS
		1	0	16QAM	23.69	0	23.69	2.00	33.01	PASS
		1	49		23.72	0	23.72	2.00	33.01	PASS
		1	99		23.51	0	23.51	2.00	33.01	PASS
		50	0		23.58	0	23.58	2.00	33.01	PASS
		50	24		23.48	0	23.48	2.00	33.01	PASS
		50	49		23.42	0	23.42	2.00	33.01	PASS
		100	0		23.29	0	23.29	2.00	33.01	PASS
	Middle	1	0	QPSK	23.95	0	23.95	2.00	33.01	PASS
		1	49		23.89	0	23.89	2.00	33.01	PASS
		1	99		23.70	0	23.70	2.00	33.01	PASS
		50	0		23.64	0	23.64	2.00	33.01	PASS
		50	24		23.63	0	23.63	2.00	33.01	PASS
		50	49		23.46	0	23.46	2.00	33.01	PASS
		100	0		23.42	0	23.42	2.00	33.01	PASS
		1	0	16QAM	23.95	0	23.95	2.00	33.01	PASS
		1	49		23.85	0	23.85	2.00	33.01	PASS
		1	99		23.57	0	23.57	2.00	33.01	PASS
		50	0		23.56	0	23.56	2.00	33.01	PASS
		50	24		23.48	0	23.48	2.00	33.01	PASS
		50	49		23.40	0	23.40	2.00	33.01	PASS
		100	0		23.33	0	23.33	2.00	33.01	PASS
	Highest	1	0	QPSK	23.96	0	23.96	2.00	33.01	PASS
		1	49		23.85	0	23.85	2.00	33.01	PASS
		1	99		23.70	0	23.70	2.00	33.01	PASS
		50	0		23.51	0	23.51	2.00	33.01	PASS
		50	24		23.45	0	23.45	2.00	33.01	PASS
		50	49		23.31	0	23.31	2.00	33.01	PASS
		100	0		23.14	0	23.14	2.00	33.01	PASS
		1	0	16QAM	23.94	0	23.94	2.00	33.01	PASS
		1	49		23.70	0	23.70	2.00	33.01	PASS
		1	99		23.64	0	23.64	2.00	33.01	PASS
		50	0		23.34	0	23.34	2.00	33.01	PASS
		50	24		23.34	0	23.34	2.00	33.01	PASS
		50	49		23.12	0	23.12	2.00	33.01	PASS
		100	0		23.11	0	23.11	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 4 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	22.85	0	22.85	1.00	30.00	PASS
		1	2		22.81	0	22.81	1.00	30.00	PASS
		1	5		22.72	0	22.72	1.00	30.00	PASS
		3	0		22.53	0	22.53	1.00	30.00	PASS
		3	1		22.40	0	22.40	1.00	30.00	PASS
		3	2		22.23	0	22.23	1.00	30.00	PASS
		6	0		22.14	0	22.14	1.00	30.00	PASS
		1	0	16QAM	22.72	0	22.72	1.00	30.00	PASS
		1	2		22.77	0	22.77	1.00	30.00	PASS
		1	5		22.67	0	22.67	1.00	30.00	PASS
		3	0		22.42	0	22.42	1.00	30.00	PASS
		3	1		22.37	0	22.37	1.00	30.00	PASS
		3	2		22.17	0	22.17	1.00	30.00	PASS
		6	0		21.99	0	21.99	1.00	30.00	PASS
	Middle	1	0	QPSK	22.89	0	22.89	1.00	30.00	PASS
		1	2		22.85	0	22.85	1.00	30.00	PASS
		1	5		22.68	0	22.68	1.00	30.00	PASS
		3	0		22.51	0	22.51	1.00	30.00	PASS
		3	1		22.42	0	22.42	1.00	30.00	PASS
		3	2		22.35	0	22.35	1.00	30.00	PASS
		6	0		22.16	0	22.16	1.00	30.00	PASS
		1	0	16QAM	22.76	0	22.76	1.00	30.00	PASS
		1	2		22.82	0	22.82	1.00	30.00	PASS
		1	5		22.52	0	22.52	1.00	30.00	PASS
		3	0		22.36	0	22.36	1.00	30.00	PASS
		3	1		22.27	0	22.27	1.00	30.00	PASS
		3	2		22.32	0	22.32	1.00	30.00	PASS
		6	0		22.04	0	22.04	1.00	30.00	PASS
	Highest	1	0	QPSK	22.93	0	22.93	1.00	30.00	PASS
		1	2		22.86	0	22.86	1.00	30.00	PASS
		1	5		22.85	0	22.85	1.00	30.00	PASS
		3	0		22.70	0	22.70	1.00	30.00	PASS
		3	1		22.58	0	22.58	1.00	30.00	PASS
		3	2		22.48	0	22.48	1.00	30.00	PASS
		6	0		22.37	0	22.37	1.00	30.00	PASS
		1	0	16QAM	22.90	0	22.90	1.00	30.00	PASS
		1	2		22.79	0	22.79	1.00	30.00	PASS
		1	5		22.72	0	22.72	1.00	30.00	PASS
		3	0		22.56	0	22.56	1.00	30.00	PASS
		3	1		22.49	0	22.49	1.00	30.00	PASS
		3	2		22.46	0	22.46	1.00	30.00	PASS
		6	0		22.17	0	22.17	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.91	0	22.91	1.00	30.00	PASS
		1	7		22.80	0	22.80	1.00	30.00	PASS
		1	14		22.80	0	22.80	1.00	30.00	PASS
		8	0		22.75	0	22.75	1.00	30.00	PASS
		8	4		22.62	0	22.62	1.00	30.00	PASS
		8	7		22.56	0	22.56	1.00	30.00	PASS
		15	0		22.54	0	22.54	1.00	30.00	PASS
		1	0	16QAM	22.73	0	22.73	1.00	30.00	PASS
		1	7		22.61	0	22.61	1.00	30.00	PASS
		1	14		22.67	0	22.67	1.00	30.00	PASS
		8	0		22.64	0	22.64	1.00	30.00	PASS
		8	4		22.53	0	22.53	1.00	30.00	PASS
		8	7		22.45	0	22.45	1.00	30.00	PASS
		15	0		22.35	0	22.35	1.00	30.00	PASS
	Middle	1	0	QPSK	22.96	0	22.96	1.00	30.00	PASS
		1	7		22.87	0	22.87	1.00	30.00	PASS
		1	14		22.74	0	22.74	1.00	30.00	PASS
		8	0		22.64	0	22.64	1.00	30.00	PASS
		8	4		22.53	0	22.53	1.00	30.00	PASS
		8	7		22.34	0	22.34	1.00	30.00	PASS
		15	0		22.17	0	22.17	1.00	30.00	PASS
		1	0	16QAM	22.84	0	22.84	1.00	30.00	PASS
		1	7		22.85	0	22.85	1.00	30.00	PASS
		1	14		22.69	0	22.69	1.00	30.00	PASS
		8	0		22.50	0	22.50	1.00	30.00	PASS
		8	4		22.41	0	22.41	1.00	30.00	PASS
		8	7		22.19	0	22.19	1.00	30.00	PASS
		15	0		22.14	0	22.14	1.00	30.00	PASS
	Highest	1	0	QPSK	22.98	0	22.98	1.00	30.00	PASS
		1	7		22.98	0	22.98	1.00	30.00	PASS
		1	14		22.80	0	22.80	1.00	30.00	PASS
		8	0		22.61	0	22.61	1.00	30.00	PASS
		8	4		22.60	0	22.60	1.00	30.00	PASS
		8	7		22.48	0	22.48	1.00	30.00	PASS
		15	0		22.41	0	22.41	1.00	30.00	PASS
		1	0	16QAM	22.90	0	22.90	1.00	30.00	PASS
		1	7		22.97	0	22.97	1.00	30.00	PASS
		1	14		22.65	0	22.65	1.00	30.00	PASS
		8	0		22.57	0	22.57	1.00	30.00	PASS
		8	4		22.50	0	22.50	1.00	30.00	PASS
		8	7		22.34	0	22.34	1.00	30.00	PASS
		15	0		22.27	0	22.27	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.99	0	22.99	1.00	30.00	PASS
		1	12		22.87	0	22.87	1.00	30.00	PASS
		1	24		22.76	0	22.76	1.00	30.00	PASS
		12	0		22.64	0	22.64	1.00	30.00	PASS
		12	6		22.55	0	22.55	1.00	30.00	PASS
		12	11		22.47	0	22.47	1.00	30.00	PASS
		25	0		22.47	0	22.47	1.00	30.00	PASS
		1	0	16QAM	22.81	0	22.81	1.00	30.00	PASS
		1	12		22.76	0	22.76	1.00	30.00	PASS
		1	24		22.63	0	22.63	1.00	30.00	PASS
		12	0		22.51	0	22.51	1.00	30.00	PASS
		12	6		22.42	0	22.42	1.00	30.00	PASS
		12	11		22.37	0	22.37	1.00	30.00	PASS
		25	0		22.44	0	22.44	1.00	30.00	PASS
	Middle	1	0	QPSK	23.05	0	23.05	1.00	30.00	PASS
		1	12		22.99	0	22.99	1.00	30.00	PASS
		1	24		22.95	0	22.95	1.00	30.00	PASS
		12	0		22.80	0	22.80	1.00	30.00	PASS
		12	6		22.60	0	22.60	1.00	30.00	PASS
		12	11		22.52	0	22.52	1.00	30.00	PASS
		25	0		22.48	0	22.48	1.00	30.00	PASS
		1	0	16QAM	22.96	0	22.96	1.00	30.00	PASS
		1	12		22.95	0	22.95	1.00	30.00	PASS
		1	24		22.91	0	22.91	1.00	30.00	PASS
		12	0		22.60	0	22.60	1.00	30.00	PASS
		12	6		22.52	0	22.52	1.00	30.00	PASS
		12	11		22.40	0	22.40	1.00	30.00	PASS
		25	0		22.34	0	22.34	1.00	30.00	PASS
	Highest	1	0	QPSK	23.12	0	23.12	1.00	30.00	PASS
		1	12		22.94	0	22.94	1.00	30.00	PASS
		1	24		22.89	0	22.89	1.00	30.00	PASS
		12	0		22.87	0	22.87	1.00	30.00	PASS
		12	6		22.69	0	22.69	1.00	30.00	PASS
		12	11		22.64	0	22.64	1.00	30.00	PASS
		25	0		22.60	0	22.60	1.00	30.00	PASS
		1	0	16QAM	23.04	0	23.04	1.00	30.00	PASS
		1	12		22.82	0	22.82	1.00	30.00	PASS
		1	24		22.72	0	22.72	1.00	30.00	PASS
		12	0		22.69	0	22.69	1.00	30.00	PASS
		12	6		22.60	0	22.60	1.00	30.00	PASS
		12	11		22.50	0	22.50	1.00	30.00	PASS
		25	0		22.49	0	22.49	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	23.06	0	23.06	1.00	30.00	PASS
		1	24		22.91	0	22.91	1.00	30.00	PASS
		1	49		22.89	0	22.89	1.00	30.00	PASS
		25	0		22.70	0	22.70	1.00	30.00	PASS
		25	12		22.61	0	22.61	1.00	30.00	PASS
		25	24		22.50	0	22.50	1.00	30.00	PASS
		50	0		22.43	0	22.43	1.00	30.00	PASS
		1	0	16QAM	22.89	0	22.89	1.00	30.00	PASS
		1	24		22.77	0	22.77	1.00	30.00	PASS
		1	49		22.70	0	22.70	1.00	30.00	PASS
		25	0		22.56	0	22.56	1.00	30.00	PASS
		25	12		22.59	0	22.59	1.00	30.00	PASS
		25	24		22.45	0	22.45	1.00	30.00	PASS
		50	0		22.37	0	22.37	1.00	30.00	PASS
	Middle	1	0	QPSK	23.23	0	23.23	1.00	30.00	PASS
		1	24		23.22	0	23.22	1.00	30.00	PASS
		1	49		23.21	0	23.21	1.00	30.00	PASS
		25	0		23.19	0	23.19	1.00	30.00	PASS
		25	12		23.18	0	23.18	1.00	30.00	PASS
		25	24		23.09	0	23.09	1.00	30.00	PASS
		50	0		23.00	0	23.00	1.00	30.00	PASS
		1	0	16QAM	23.11	0	23.11	1.00	30.00	PASS
		1	24		23.03	0	23.03	1.00	30.00	PASS
		1	49		23.10	0	23.10	1.00	30.00	PASS
		25	0		23.11	0	23.11	1.00	30.00	PASS
		25	12		23.03	0	23.03	1.00	30.00	PASS
		25	24		23.07	0	23.07	1.00	30.00	PASS
		50	0		22.94	0	22.94	1.00	30.00	PASS
	Highest	1	0	QPSK	23.32	0	23.32	1.00	30.00	PASS
		1	24		23.29	0	23.29	1.00	30.00	PASS
		1	49		23.13	0	23.13	1.00	30.00	PASS
		25	0		22.94	0	22.94	1.00	30.00	PASS
		25	12		22.83	0	22.83	1.00	30.00	PASS
		25	24		22.70	0	22.70	1.00	30.00	PASS
		50	0		22.63	0	22.63	1.00	30.00	PASS
		1	0	16QAM	23.30	0	23.30	1.00	30.00	PASS
		1	24		23.10	0	23.10	1.00	30.00	PASS
		1	49		23.03	0	23.03	1.00	30.00	PASS
		25	0		22.86	0	22.86	1.00	30.00	PASS
		25	12		22.63	0	22.63	1.00	30.00	PASS
		25	24		22.51	0	22.51	1.00	30.00	PASS
		50	0		22.51	0	22.51	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	23.31	0	23.31	1.00	30.00	PASS
		1	37		23.14	0	23.14	1.00	30.00	PASS
		1	74		23.06	0	23.06	1.00	30.00	PASS
		36	0		22.96	0	22.96	1.00	30.00	PASS
		36	18		22.77	0	22.77	1.00	30.00	PASS
		36	39		22.61	0	22.61	1.00	30.00	PASS
		75	0		22.49	0	22.49	1.00	30.00	PASS
		1	0	16QAM	23.31	0	23.31	1.00	30.00	PASS
		1	37		23.10	0	23.10	1.00	30.00	PASS
		1	74		22.95	0	22.95	1.00	30.00	PASS
		36	0		22.87	0	22.87	1.00	30.00	PASS
		36	18		22.72	0	22.72	1.00	30.00	PASS
		36	39		22.49	0	22.49	1.00	30.00	PASS
		75	0		22.41	0	22.41	1.00	30.00	PASS
	Middle	1	0	QPSK	23.35	0	23.35	1.00	30.00	PASS
		1	37		23.21	0	23.21	1.00	30.00	PASS
		1	74		23.13	0	23.13	1.00	30.00	PASS
		36	0		23.08	0	23.08	1.00	30.00	PASS
		36	18		22.90	0	22.90	1.00	30.00	PASS
		36	39		22.79	0	22.79	1.00	30.00	PASS
		75	0		22.79	0	22.79	1.00	30.00	PASS
		1	0	16QAM	23.20	0	23.20	1.00	30.00	PASS
		1	37		23.19	0	23.19	1.00	30.00	PASS
		1	74		22.98	0	22.98	1.00	30.00	PASS
		36	0		22.92	0	22.92	1.00	30.00	PASS
		36	18		22.83	0	22.83	1.00	30.00	PASS
		36	39		22.62	0	22.62	1.00	30.00	PASS
		75	0		22.64	0	22.64	1.00	30.00	PASS
	Highest	1	0	QPSK	23.45	0	23.45	1.00	30.00	PASS
		1	37		23.41	0	23.41	1.00	30.00	PASS
		1	74		23.25	0	23.25	1.00	30.00	PASS
		36	0		23.17	0	23.17	1.00	30.00	PASS
		36	18		22.99	0	22.99	1.00	30.00	PASS
		36	39		22.97	0	22.97	1.00	30.00	PASS
		75	0		22.83	0	22.83	1.00	30.00	PASS
		1	0	16QAM	23.45	0	23.45	1.00	30.00	PASS
		1	37		23.39	0	23.39	1.00	30.00	PASS
		1	74		23.14	0	23.14	1.00	30.00	PASS
		36	0		23.01	0	23.01	1.00	30.00	PASS
		36	18		22.89	0	22.89	1.00	30.00	PASS
		36	39		22.93	0	22.93	1.00	30.00	PASS
		75	0		22.70	0	22.70	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	23.59	0	23.59	1.00	30.00	PASS
		1	49		23.46	0	23.46	1.00	30.00	PASS
		1	99		23.40	0	23.40	1.00	30.00	PASS
		50	0		23.23	0	23.23	1.00	30.00	PASS
		50	24		23.10	0	23.10	1.00	30.00	PASS
		50	49		22.98	0	22.98	1.00	30.00	PASS
		100	0		22.91	0	22.91	1.00	30.00	PASS
		1	0	16QAM	23.58	0	23.58	1.00	30.00	PASS
		1	49		23.40	0	23.40	1.00	30.00	PASS
		1	99		23.40	0	23.40	1.00	30.00	PASS
		50	0		23.15	0	23.15	1.00	30.00	PASS
		50	24		23.06	0	23.06	1.00	30.00	PASS
		50	49		22.92	0	22.92	1.00	30.00	PASS
		100	0		22.87	0	22.87	1.00	30.00	PASS
	Middle	1	0	QPSK	23.68	0	23.68	1.00	30.00	PASS
		1	49		23.51	0	23.51	1.00	30.00	PASS
		1	99		23.34	0	23.34	1.00	30.00	PASS
		50	0		23.24	0	23.24	1.00	30.00	PASS
		50	24		23.10	0	23.10	1.00	30.00	PASS
		50	49		22.95	0	22.95	1.00	30.00	PASS
		100	0		22.92	0	22.92	1.00	30.00	PASS
		1	0	16QAM	23.68	0	23.68	1.00	30.00	PASS
		1	49		23.43	0	23.43	1.00	30.00	PASS
		1	99		23.28	0	23.28	1.00	30.00	PASS
		50	0		23.13	0	23.13	1.00	30.00	PASS
		50	24		23.05	0	23.05	1.00	30.00	PASS
		50	49		22.92	0	22.92	1.00	30.00	PASS
		100	0		22.92	0	22.92	1.00	30.00	PASS
	Highest	1	0	QPSK	23.85	0	23.85	1.00	30.00	PASS
		1	49		23.79	0	23.79	1.00	30.00	PASS
		1	99		23.67	0	23.67	1.00	30.00	PASS
		50	0		23.54	0	23.54	1.00	30.00	PASS
		50	24		23.40	0	23.40	1.00	30.00	PASS
		50	49		23.39	0	23.39	1.00	30.00	PASS
		100	0		23.35	0	23.35	1.00	30.00	PASS
		1	0	16QAM	23.68	0	23.68	1.00	30.00	PASS
		1	49		23.76	0	23.76	1.00	30.00	PASS
		1	99		23.56	0	23.56	1.00	30.00	PASS
		50	0		23.37	0	23.37	1.00	30.00	PASS
		50	24		23.31	0	23.31	1.00	30.00	PASS
		50	49		23.27	0	23.27	1.00	30.00	PASS
		100	0		23.30	0	23.30	1.00	30.00	PASS



Radiated Power (ERP) for LTE Band 5 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	22.89	0	20.74	7.00	38.45	PASS
		1	2		22.84	0	20.69	7.00	38.45	PASS
		1	5		22.66	0	20.51	7.00	38.45	PASS
		3	0		22.64	0	20.49	7.00	38.45	PASS
		3	1		22.48	0	20.33	7.00	38.45	PASS
		3	2		22.29	0	20.14	7.00	38.45	PASS
		6	0		22.18	0	20.03	7.00	38.45	PASS
		1	0	16QAM	22.74	0	20.59	7.00	38.45	PASS
		1	2		22.75	0	20.60	7.00	38.45	PASS
		1	5		22.50	0	20.35	7.00	38.45	PASS
		3	0		22.60	0	20.45	7.00	38.45	PASS
		3	1		22.41	0	20.26	7.00	38.45	PASS
		3	2		22.17	0	20.02	7.00	38.45	PASS
		6	0		22.12	0	19.97	7.00	38.45	PASS
	Middle	1	0	QPSK	22.92	0	20.77	7.00	38.45	PASS
		1	2		22.91	0	20.76	7.00	38.45	PASS
		1	5		22.71	0	20.56	7.00	38.45	PASS
		3	0		22.53	0	20.38	7.00	38.45	PASS
		3	1		22.37	0	20.22	7.00	38.45	PASS
		3	2		22.19	0	20.04	7.00	38.45	PASS
		6	0		22.07	0	19.92	7.00	38.45	PASS
		1	0	16QAM	22.83	0	20.68	7.00	38.45	PASS
		1	2		22.91	0	20.76	7.00	38.45	PASS
		1	5		22.63	0	20.48	7.00	38.45	PASS
		3	0		22.46	0	20.31	7.00	38.45	PASS
		3	1		22.29	0	20.14	7.00	38.45	PASS
		3	2		22.04	0	19.89	7.00	38.45	PASS
		6	0		21.99	0	19.84	7.00	38.45	PASS
	Highest	1	0	QPSK	22.93	0	20.78	7.00	38.45	PASS
		1	2		22.75	0	20.60	7.00	38.45	PASS
		1	5		22.70	0	20.55	7.00	38.45	PASS
		3	0		22.69	0	20.54	7.00	38.45	PASS
		3	1		22.53	0	20.38	7.00	38.45	PASS
		3	2		22.43	0	20.28	7.00	38.45	PASS
		6	0		22.31	0	20.16	7.00	38.45	PASS
		1	0	16QAM	22.89	0	20.74	7.00	38.45	PASS
		1	2		22.60	0	20.45	7.00	38.45	PASS
		1	5		22.53	0	20.38	7.00	38.45	PASS
		3	0		22.52	0	20.37	7.00	38.45	PASS
		3	1		22.44	0	20.29	7.00	38.45	PASS
		3	2		22.27	0	20.12	7.00	38.45	PASS
		6	0		22.29	0	20.14	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.92	0	20.77	7.00	38.45	PASS
		1	7		22.82	0	20.67	7.00	38.45	PASS
		1	14		22.76	0	20.61	7.00	38.45	PASS
		8	0		22.56	0	20.41	7.00	38.45	PASS
		8	4		22.42	0	20.27	7.00	38.45	PASS
		8	7		22.27	0	20.12	7.00	38.45	PASS
		15	0		22.22	0	20.07	7.00	38.45	PASS
		1	0	16QAM	22.79	0	20.64	7.00	38.45	PASS
		1	7		22.68	0	20.53	7.00	38.45	PASS
		1	14		22.57	0	20.42	7.00	38.45	PASS
		8	0		22.46	0	20.31	7.00	38.45	PASS
		8	4		22.30	0	20.15	7.00	38.45	PASS
		8	7		22.11	0	19.96	7.00	38.45	PASS
		15	0		22.05	0	19.90	7.00	38.45	PASS
	Middle	1	0	QPSK	22.95	0	20.80	7.00	38.45	PASS
		1	7		22.76	0	20.61	7.00	38.45	PASS
		1	14		22.75	0	20.60	7.00	38.45	PASS
		8	0		22.64	0	20.49	7.00	38.45	PASS
		8	4		22.45	0	20.30	7.00	38.45	PASS
		8	7		22.27	0	20.12	7.00	38.45	PASS
		15	0		22.09	0	19.94	7.00	38.45	PASS
		1	0	16QAM	22.83	0	20.68	7.00	38.45	PASS
		1	7		22.71	0	20.56	7.00	38.45	PASS
		1	14		22.61	0	20.46	7.00	38.45	PASS
		8	0		22.59	0	20.44	7.00	38.45	PASS
		8	4		22.35	0	20.20	7.00	38.45	PASS
		8	7		22.13	0	19.98	7.00	38.45	PASS
		15	0		22.00	0	19.85	7.00	38.45	PASS
	Highest	1	0	QPSK	22.96	0	20.81	7.00	38.45	PASS
		1	7		22.83	0	20.68	7.00	38.45	PASS
		1	14		22.81	0	20.66	7.00	38.45	PASS
		8	0		22.65	0	20.50	7.00	38.45	PASS
		8	4		22.46	0	20.31	7.00	38.45	PASS
		8	7		22.42	0	20.27	7.00	38.45	PASS
		15	0		22.40	0	20.25	7.00	38.45	PASS
		1	0	16QAM	22.92	0	20.77	7.00	38.45	PASS
		1	7		22.81	0	20.66	7.00	38.45	PASS
		1	14		22.74	0	20.59	7.00	38.45	PASS
		8	0		22.63	0	20.48	7.00	38.45	PASS
		8	4		22.30	0	20.15	7.00	38.45	PASS
		8	7		22.42	0	20.27	7.00	38.45	PASS
		15	0		22.24	0	20.09	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.98	0	20.83	7.00	38.45	PASS
		1	12		22.95	0	20.80	7.00	38.45	PASS
		1	24		22.78	0	20.63	7.00	38.45	PASS
		12	0		22.69	0	20.54	7.00	38.45	PASS
		12	6		22.54	0	20.39	7.00	38.45	PASS
		12	11		22.38	0	20.23	7.00	38.45	PASS
		25	0		22.34	0	20.19	7.00	38.45	PASS
		1	0	16QAM	22.78	0	20.63	7.00	38.45	PASS
		1	12		22.79	0	20.64	7.00	38.45	PASS
		1	24		22.76	0	20.61	7.00	38.45	PASS
		12	0		22.64	0	20.49	7.00	38.45	PASS
		12	6		22.46	0	20.31	7.00	38.45	PASS
		12	11		22.30	0	20.15	7.00	38.45	PASS
		25	0		22.26	0	20.11	7.00	38.45	PASS
	Middle	1	0	QPSK	23.03	0	20.88	7.00	38.45	PASS
		1	12		22.96	0	20.81	7.00	38.45	PASS
		1	24		22.89	0	20.74	7.00	38.45	PASS
		12	0		22.89	0	20.74	7.00	38.45	PASS
		12	6		22.76	0	20.61	7.00	38.45	PASS
		12	11		22.69	0	20.54	7.00	38.45	PASS
		25	0		22.55	0	20.40	7.00	38.45	PASS
		1	0	16QAM	22.94	0	20.79	7.00	38.45	PASS
		1	12		22.85	0	20.70	7.00	38.45	PASS
		1	24		22.75	0	20.60	7.00	38.45	PASS
		12	0		22.79	0	20.64	7.00	38.45	PASS
		12	6		22.71	0	20.56	7.00	38.45	PASS
		12	11		22.54	0	20.39	7.00	38.45	PASS
		25	0		22.35	0	20.20	7.00	38.45	PASS
	Highest	1	0	QPSK	23.12	0	20.97	7.00	38.45	PASS
		1	12		23.01	0	20.86	7.00	38.45	PASS
		1	24		22.87	0	20.72	7.00	38.45	PASS
		12	0		22.81	0	20.66	7.00	38.45	PASS
		12	6		22.78	0	20.63	7.00	38.45	PASS
		12	11		22.72	0	20.57	7.00	38.45	PASS
		25	0		22.66	0	20.51	7.00	38.45	PASS
		1	0	16QAM	22.96	0	20.81	7.00	38.45	PASS
		1	12		22.93	0	20.78	7.00	38.45	PASS
		1	24		22.72	0	20.57	7.00	38.45	PASS
		12	0		22.81	0	20.66	7.00	38.45	PASS
		12	6		22.60	0	20.45	7.00	38.45	PASS
		12	11		22.59	0	20.44	7.00	38.45	PASS
		25	0		22.51	0	20.36	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	23.26	0	21.11	7.00	38.45	PASS
		1	24		23.17	0	21.02	7.00	38.45	PASS
		1	49		22.98	0	20.83	7.00	38.45	PASS
		25	0		22.93	0	20.78	7.00	38.45	PASS
		25	12		22.81	0	20.66	7.00	38.45	PASS
		25	24		22.77	0	20.62	7.00	38.45	PASS
		50	0		22.63	0	20.48	7.00	38.45	PASS
		1	0	16QAM	23.08	0	20.93	7.00	38.45	PASS
		1	24		22.99	0	20.84	7.00	38.45	PASS
		1	49		22.97	0	20.82	7.00	38.45	PASS
		25	0		22.89	0	20.74	7.00	38.45	PASS
		25	12		22.75	0	20.60	7.00	38.45	PASS
		25	24		22.62	0	20.47	7.00	38.45	PASS
		50	0		22.48	0	20.33	7.00	38.45	PASS
	Middle	1	0	QPSK	23.45	0	21.30	7.00	38.45	PASS
		1	24		23.39	0	21.24	7.00	38.45	PASS
		1	49		23.19	0	21.04	7.00	38.45	PASS
		25	0		23.13	0	20.98	7.00	38.45	PASS
		25	12		23.09	0	20.94	7.00	38.45	PASS
		25	24		23.01	0	20.86	7.00	38.45	PASS
		50	0		23.01	0	20.86	7.00	38.45	PASS
		1	0	16QAM	23.30	0	21.15	7.00	38.45	PASS
		1	24		23.32	0	21.17	7.00	38.45	PASS
		1	49		23.08	0	20.93	7.00	38.45	PASS
		25	0		23.08	0	20.93	7.00	38.45	PASS
		25	12		23.06	0	20.91	7.00	38.45	PASS
		25	24		22.86	0	20.71	7.00	38.45	PASS
		50	0		22.99	0	20.84	7.00	38.45	PASS
	Highest	1	0	QPSK	23.59	0	21.44	7.00	38.45	PASS
		1	24		23.44	0	21.29	7.00	38.45	PASS
		1	49		23.27	0	21.12	7.00	38.45	PASS
		25	0		23.14	0	20.99	7.00	38.45	PASS
		25	12		23.05	0	20.90	7.00	38.45	PASS
		25	24		23.00	0	20.85	7.00	38.45	PASS
		50	0		22.87	0	20.72	7.00	38.45	PASS
		1	0	16QAM	23.41	0	21.26	7.00	38.45	PASS
		1	24		23.43	0	21.28	7.00	38.45	PASS
		1	49		23.20	0	21.05	7.00	38.45	PASS
		25	0		22.97	0	20.82	7.00	38.45	PASS
		25	12		22.98	0	20.83	7.00	38.45	PASS
		25	24		22.95	0	20.80	7.00	38.45	PASS
		50	0		22.83	0	20.68	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 12 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	23.52	0	21.37	3.00	34.77	PASS
		1	2		23.42	0	21.27	3.00	34.77	PASS
		1	5		23.23	0	21.08	3.00	34.77	PASS
		3	0		23.14	0	20.99	3.00	34.77	PASS
		3	1		23.11	0	20.96	3.00	34.77	PASS
		3	2		23.06	0	20.91	3.00	34.77	PASS
		6	0		23.02	0	20.87	3.00	34.77	PASS
		1	0	16QAM	23.50	0	21.35	3.00	34.77	PASS
		1	2		23.35	0	21.20	3.00	34.77	PASS
		1	5		23.05	0	20.90	3.00	34.77	PASS
		3	0		22.95	0	20.80	3.00	34.77	PASS
		3	1		23.06	0	20.91	3.00	34.77	PASS
		3	2		23.06	0	20.91	3.00	34.77	PASS
		6	0		22.86	0	20.71	3.00	34.77	PASS
	Middle	1	0	QPSK	23.62	0	21.47	3.00	34.77	PASS
		1	2		23.59	0	21.44	3.00	34.77	PASS
		1	5		23.40	0	21.25	3.00	34.77	PASS
		3	0		23.27	0	21.12	3.00	34.77	PASS
		3	1		23.25	0	21.10	3.00	34.77	PASS
		3	2		23.07	0	20.92	3.00	34.77	PASS
		6	0		22.89	0	20.74	3.00	34.77	PASS
		1	0	16QAM	23.48	0	21.33	3.00	34.77	PASS
		1	2		23.53	0	21.38	3.00	34.77	PASS
		1	5		23.30	0	21.15	3.00	34.77	PASS
		3	0		23.22	0	21.07	3.00	34.77	PASS
		3	1		23.14	0	20.99	3.00	34.77	PASS
		3	2		23.02	0	20.87	3.00	34.77	PASS
		6	0		22.87	0	20.72	3.00	34.77	PASS
	Highest	1	0	QPSK	23.68	0	21.53	3.00	34.77	PASS
		1	2		23.50	0	21.35	3.00	34.77	PASS
		1	5		23.32	0	21.17	3.00	34.77	PASS
		3	0		23.30	0	21.15	3.00	34.77	PASS
		3	1		23.28	0	21.13	3.00	34.77	PASS
		3	2		23.20	0	21.05	3.00	34.77	PASS
		6	0		23.02	0	20.87	3.00	34.77	PASS
		1	0	16QAM	23.51	0	21.36	3.00	34.77	PASS
		1	2		23.43	0	21.28	3.00	34.77	PASS
		1	5		23.29	0	21.14	3.00	34.77	PASS
		3	0		23.16	0	21.01	3.00	34.77	PASS
		3	1		23.22	0	21.07	3.00	34.77	PASS
		3	2		23.05	0	20.90	3.00	34.77	PASS
		6	0		22.96	0	20.81	3.00	34.77	PASS



Radiated Power (ERP) for LTE Band 12 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	23.65	0	21.50	3.00	34.77	PASS
		1	7		23.56	0	21.41	3.00	34.77	PASS
		1	14		23.49	0	21.34	3.00	34.77	PASS
		8	0		23.36	0	21.21	3.00	34.77	PASS
		8	4		23.32	0	21.17	3.00	34.77	PASS
		8	7		23.27	0	21.12	3.00	34.77	PASS
		15	0		23.10	0	20.95	3.00	34.77	PASS
		1	0	16QAM	23.52	0	21.37	3.00	34.77	PASS
		1	7		23.47	0	21.32	3.00	34.77	PASS
		1	14		23.35	0	21.20	3.00	34.77	PASS
		8	0		23.29	0	21.14	3.00	34.77	PASS
		8	4		23.14	0	20.99	3.00	34.77	PASS
		8	7		23.11	0	20.96	3.00	34.77	PASS
		15	0		22.97	0	20.82	3.00	34.77	PASS
	Middle	1	0	QPSK	23.75	0	21.60	3.00	34.77	PASS
		1	7		23.59	0	21.44	3.00	34.77	PASS
		1	14		23.45	0	21.30	3.00	34.77	PASS
		8	0		23.25	0	21.10	3.00	34.77	PASS
		8	4		23.15	0	21.00	3.00	34.77	PASS
		8	7		23.06	0	20.91	3.00	34.77	PASS
		15	0		22.99	0	20.84	3.00	34.77	PASS
		1	0	16QAM	23.72	0	21.57	3.00	34.77	PASS
		1	7		23.52	0	21.37	3.00	34.77	PASS
		1	14		23.45	0	21.30	3.00	34.77	PASS
		8	0		23.16	0	21.01	3.00	34.77	PASS
		8	4		23.07	0	20.92	3.00	34.77	PASS
		8	7		22.89	0	20.74	3.00	34.77	PASS
		15	0		22.80	0	20.65	3.00	34.77	PASS
	Highest	1	0	QPSK	23.81	0	21.66	3.00	34.77	PASS
		1	7		23.63	0	21.48	3.00	34.77	PASS
		1	14		23.47	0	21.32	3.00	34.77	PASS
		8	0		23.28	0	21.13	3.00	34.77	PASS
		8	4		23.23	0	21.08	3.00	34.77	PASS
		8	7		23.08	0	20.93	3.00	34.77	PASS
		15	0		22.96	0	20.81	3.00	34.77	PASS
		1	0	16QAM	23.64	0	21.49	3.00	34.77	PASS
		1	7		23.48	0	21.33	3.00	34.77	PASS
		1	14		23.45	0	21.30	3.00	34.77	PASS
		8	0		23.25	0	21.10	3.00	34.77	PASS
		8	4		23.17	0	21.02	3.00	34.77	PASS
		8	7		22.96	0	20.81	3.00	34.77	PASS
		15	0		22.87	0	20.72	3.00	34.77	PASS



Radiated Power (ERP) for LTE Band 12 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	23.86	0	21.71	3.00	34.77	PASS
		1	12		23.79	0	21.64	3.00	34.77	PASS
		1	24		23.64	0	21.49	3.00	34.77	PASS
		12	0		23.44	0	21.29	3.00	34.77	PASS
		12	6		23.37	0	21.22	3.00	34.77	PASS
		12	11		23.28	0	21.13	3.00	34.77	PASS
		25	0		23.09	0	20.94	3.00	34.77	PASS
		1	0	16QAM	23.82	0	21.67	3.00	34.77	PASS
		1	12		23.78	0	21.63	3.00	34.77	PASS
		1	24		23.52	0	21.37	3.00	34.77	PASS
		12	0		23.33	0	21.18	3.00	34.77	PASS
		12	6		23.30	0	21.15	3.00	34.77	PASS
		12	11		23.13	0	20.98	3.00	34.77	PASS
		25	0		22.93	0	20.78	3.00	34.77	PASS
	Middle	1	0	QPSK	23.88	0	21.73	3.00	34.77	PASS
		1	12		23.80	0	21.65	3.00	34.77	PASS
		1	24		23.78	0	21.63	3.00	34.77	PASS
		12	0		23.77	0	21.62	3.00	34.77	PASS
		12	6		23.72	0	21.57	3.00	34.77	PASS
		12	11		23.63	0	21.48	3.00	34.77	PASS
		25	0		23.49	0	21.34	3.00	34.77	PASS
		1	0	16QAM	23.71	0	21.56	3.00	34.77	PASS
		1	12		23.74	0	21.59	3.00	34.77	PASS
		1	24		23.69	0	21.54	3.00	34.77	PASS
		12	0		23.63	0	21.48	3.00	34.77	PASS
		12	6		23.55	0	21.40	3.00	34.77	PASS
		12	11		23.51	0	21.36	3.00	34.77	PASS
		25	0		23.31	0	21.16	3.00	34.77	PASS
	Highest	1	0	QPSK	23.89	0	21.74	3.00	34.77	PASS
		1	12		23.81	0	21.66	3.00	34.77	PASS
		1	24		23.69	0	21.54	3.00	34.77	PASS
		12	0		23.55	0	21.40	3.00	34.77	PASS
		12	6		23.46	0	21.31	3.00	34.77	PASS
		12	11		23.31	0	21.16	3.00	34.77	PASS
		25	0		23.26	0	21.11	3.00	34.77	PASS
		1	0	16QAM	23.76	0	21.61	3.00	34.77	PASS
		1	12		23.65	0	21.50	3.00	34.77	PASS
		1	24		23.51	0	21.36	3.00	34.77	PASS
		12	0		23.50	0	21.35	3.00	34.77	PASS
		12	6		23.31	0	21.16	3.00	34.77	PASS
		12	11		23.19	0	21.04	3.00	34.77	PASS
		25	0		23.09	0	20.94	3.00	34.77	PASS



Radiated Power (ERP) for LTE Band 12 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	23.95	0	21.80	3.00	34.77	PASS
		1	24		23.85	0	21.70	3.00	34.77	PASS
		1	49		23.74	0	21.59	3.00	34.77	PASS
		25	0		23.65	0	21.50	3.00	34.77	PASS
		25	12		23.52	0	21.37	3.00	34.77	PASS
		25	24		23.47	0	21.32	3.00	34.77	PASS
		50	0		23.45	0	21.30	3.00	34.77	PASS
		1	0	16QAM	23.89	0	21.74	3.00	34.77	PASS
		1	24		23.68	0	21.53	3.00	34.77	PASS
		1	49		23.58	0	21.43	3.00	34.77	PASS
		25	0		23.48	0	21.33	3.00	34.77	PASS
		25	12		23.38	0	21.23	3.00	34.77	PASS
		25	24		23.43	0	21.28	3.00	34.77	PASS
		50	0		23.32	0	21.17	3.00	34.77	PASS
	Middle	1	0	QPSK	23.98	0	21.83	3.00	34.77	PASS
		1	24		23.83	0	21.68	3.00	34.77	PASS
		1	49		23.79	0	21.64	3.00	34.77	PASS
		25	0		23.59	0	21.44	3.00	34.77	PASS
		25	12		23.41	0	21.26	3.00	34.77	PASS
		25	24		23.32	0	21.17	3.00	34.77	PASS
		50	0		23.12	0	20.97	3.00	34.77	PASS
		1	0	16QAM	23.96	0	21.81	3.00	34.77	PASS
		1	24		23.75	0	21.60	3.00	34.77	PASS
		1	49		23.64	0	21.49	3.00	34.77	PASS
		25	0		23.55	0	21.40	3.00	34.77	PASS
		25	12		23.29	0	21.14	3.00	34.77	PASS
		25	24		23.17	0	21.02	3.00	34.77	PASS
		50	0		23.01	0	20.86	3.00	34.77	PASS
	Highest	1	0	QPSK	24.02	0	21.87	3.00	34.77	PASS
		1	24		23.87	0	21.72	3.00	34.77	PASS
		1	49		23.76	0	21.61	3.00	34.77	PASS
		25	0		23.72	0	21.57	3.00	34.77	PASS
		25	12		23.68	0	21.53	3.00	34.77	PASS
		25	24		23.49	0	21.34	3.00	34.77	PASS
		50	0		23.40	0	21.25	3.00	34.77	PASS
		1	0	16QAM	23.93	0	21.78	3.00	34.77	PASS
		1	24		23.83	0	21.68	3.00	34.77	PASS
		1	49		23.67	0	21.52	3.00	34.77	PASS
		25	0		23.72	0	21.57	3.00	34.77	PASS
		25	12		23.63	0	21.48	3.00	34.77	PASS
		25	24		23.33	0	21.18	3.00	34.77	PASS
		50	0		23.38	0	21.23	3.00	34.77	PASS



Radiated Power (ERP) for LTE Band 13 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.32	0	20.17	3.00	34.77	PASS
		1	12		22.14	0	19.99	3.00	34.77	PASS
		1	24		22.07	0	19.92	3.00	34.77	PASS
		12	0		22.01	0	19.86	3.00	34.77	PASS
		12	6		21.95	0	19.80	3.00	34.77	PASS
		12	11		21.88	0	19.73	3.00	34.77	PASS
		25	0		21.68	0	19.53	3.00	34.77	PASS
		1	0	16QAM	22.14	0	19.99	3.00	34.77	PASS
		1	12		22.12	0	19.97	3.00	34.77	PASS
		1	24		22.00	0	19.85	3.00	34.77	PASS
		12	0		21.83	0	19.68	3.00	34.77	PASS
		12	6		21.85	0	19.70	3.00	34.77	PASS
		12	11		21.81	0	19.66	3.00	34.77	PASS
		25	0		21.66	0	19.51	3.00	34.77	PASS
	Middle	1	0	QPSK	22.35	0	20.20	3.00	34.77	PASS
		1	12		22.23	0	20.08	3.00	34.77	PASS
		1	24		22.07	0	19.92	3.00	34.77	PASS
		12	0		21.89	0	19.74	3.00	34.77	PASS
		12	6		21.74	0	19.59	3.00	34.77	PASS
		12	11		21.71	0	19.56	3.00	34.77	PASS
		25	0		21.69	0	19.54	3.00	34.77	PASS
		1	0	16QAM	22.29	0	20.14	3.00	34.77	PASS
		1	12		22.12	0	19.97	3.00	34.77	PASS
		1	24		21.88	0	19.73	3.00	34.77	PASS
		12	0		21.79	0	19.64	3.00	34.77	PASS
		12	6		21.55	0	19.40	3.00	34.77	PASS
		12	11		21.61	0	19.46	3.00	34.77	PASS
		25	0		21.63	0	19.48	3.00	34.77	PASS
	Highest	1	0	QPSK	22.42	0	20.27	3.00	34.77	PASS
		1	12		22.31	0	20.16	3.00	34.77	PASS
		1	24		22.16	0	20.01	3.00	34.77	PASS
		12	0		22.05	0	19.90	3.00	34.77	PASS
		12	6		21.99	0	19.84	3.00	34.77	PASS
		12	11		21.85	0	19.70	3.00	34.77	PASS
		25	0		21.76	0	19.61	3.00	34.77	PASS
		1	0	16QAM	22.40	0	20.25	3.00	34.77	PASS
		1	12		22.12	0	19.97	3.00	34.77	PASS
		1	24		22.14	0	19.99	3.00	34.77	PASS
		12	0		21.97	0	19.82	3.00	34.77	PASS
		12	6		21.93	0	19.78	3.00	34.77	PASS
		12	11		21.71	0	19.56	3.00	34.77	PASS
		25	0		21.66	0	19.51	3.00	34.77	PASS



Radiated Power (ERP) for LTE Band 13 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Middle	1	0	QPSK	22.68	0	20.53	3.00	34.77	PASS
		1	24		22.51	0	20.36	3.00	34.77	PASS
		1	49		22.51	0	20.36	3.00	34.77	PASS
		25	0		22.42	0	20.27	3.00	34.77	PASS
		25	12		22.27	0	20.12	3.00	34.77	PASS
		25	24		22.10	0	19.95	3.00	34.77	PASS
		50	0		22.05	0	19.90	3.00	34.77	PASS
		1	0	16QAM	22.52	0	20.37	3.00	34.77	PASS
		1	24		22.35	0	20.20	3.00	34.77	PASS
		1	49		22.46	0	20.31	3.00	34.77	PASS
		25	0		22.28	0	20.13	3.00	34.77	PASS
		25	12		22.11	0	19.96	3.00	34.77	PASS
		25	24		21.93	0	19.78	3.00	34.77	PASS
		50	0		21.97	0	19.82	3.00	34.77	PASS



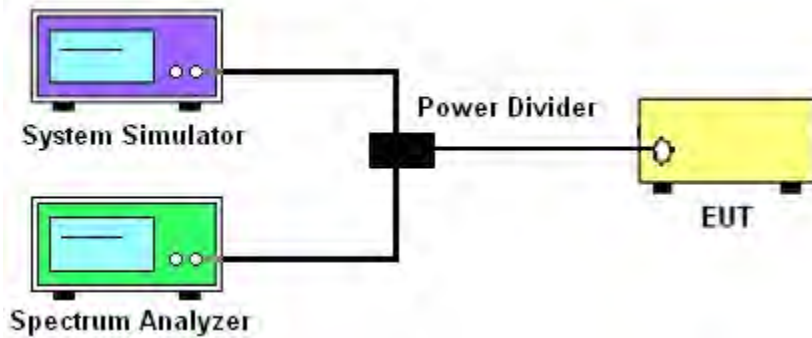
4. PEAK-TO-AVERAGE RATIO

4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:
 $PAPR (dB) = PPK (dBm) - PAvg (dBm)$.

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto



4.1.4 TEST RESULTS

LTE Band 2 PAR [dBm]					
BW [MHz]	RB Size	Modulation	Lowest	Middle	Highest
			P-A	P-A	P-A
20	1	QPSK	4.38	3.95	3.47
20	100		5.42	5.43	5.21
20	1	16-QAM	5.27	5.28	4.33
20	100		6.14	6.16	5.87
Limit			≤13dB		

LTE Band 4 PAR [dBm]					
BW [MHz]	RB Size	Modulation	Lowest	Middle	Highest
			P-A	P-A	P-A
20	1	QPSK	3.98	3.61	4.5
20	100		5.54	5.17	5.17
20	1	16-QAM	4.79	4.24	5.22
20	100		6.17	6	6.01
Limit			≤13dB		

LTE Band 5 PAR [dBm]					
BW [MHz]	RB Size	Modulation	Lowest	Middle	Highest
			P-A	P-A	P-A
10	1	QPSK	4.88	5.08	5.17
10	50		5.36	5.57	5.4
10	1	16-QAM	5.89	5.61	6.64
10	50		6.21	6.33	6.12
Limit			≤13dB		

LTE Band 12 PAR [dBm]					
BW [MHz]	RB Size	Modulation	Lowest	Middle	Highest
			P-A	P-A	P-A
10	1	QPSK	4.13	4.56	3.34
10	50		4.38	4.99	5.1
10	1	16-QAM	4.38	5.82	4.3
10	50		5.92	5.83	5.76
Limit			≤13dB		

LTE Band 13 PAR [dBm]			
BW [MHz]	RB Size	Modulation	Middle
			P-A
10	1	QPSK	5.06
10	50		5.23
10	1	16-QAM	6.41
10	50		5.87
Limit			≤13dB

Note: Test chart See Appendix D

5. OCCUPIED BANDWIDTH

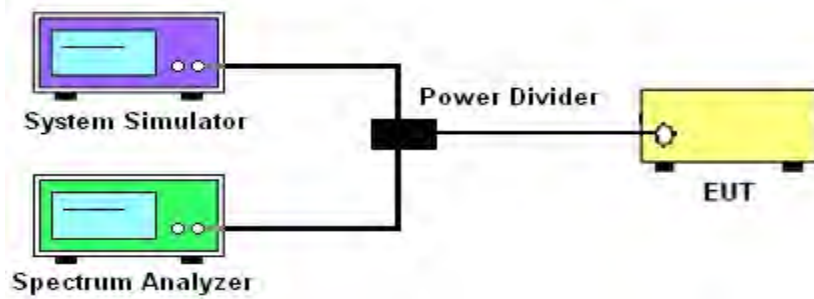
5.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

5.1.1 MEASUREMENT METHOD

1.The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

5.1.2 TEST SETUP



5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto



5.1.4 MEASUREMENT RESULT

LTE Band 2 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.098	1.249	1.095	1.249	1.0967	1.252
1.4	16-QAM	1.091	1.244	1.1	1.248	1.105	1.257
3	QPSK	2.684	2.998	2.693	2.972	2.6852	2.992
3	16-QAM	2.686	2.995	2.6858	2.989	2.684	2.981
5	QPSK	4.526	4.967	4.507	4.993	4.498	4.955
5	16-QAM	4.527	4.997	4.513	4.975	4.522	4.976
10	QPSK	8.927	9.704	8.949	9.738	8.945	9.761
10	16-QAM	8.941	9.766	8.946	9.75	8.9436	9.793
15	QPSK	13.46	14.87	13.49	15.01	13.492	14.96
15	16-QAM	13.491	14.93	13.492	14.98	13.503	14.94
20	QPSK	17.914	19.39	17.974	19.67	17.924	19.39
20	16-QAM	17.965	19.47	17.971	19.72	17.936	19.63
LTE Band 4 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.095	1.256	1.0972	1.243	1.0951	1.246
1.4	16-QAM	1.099	1.248	1.1008	1.248	1.104	1.255
3	QPSK	2.691	2.992	2.6879	2.989	2.686	2.974
3	16-QAM	2.685	2.997	2.684	2.98	2.688	2.999
5	QPSK	4.5	4.982	4.5259	4.969	4.509	4.998
5	16-QAM	4.532	5.001	4.534	4.99	4.51	4.995
10	QPSK	8.94	9.739	8.951	9.775	8.935	9.718
10	16-QAM	8.948	9.781	8.947	9.804	8.936	9.69
15	QPSK	13.465	14.92	13.489	15	13.498	14.95
15	16-QAM	13.488	14.93	13.492	15.04	13.503	14.97
20	QPSK	17.939	19.48	17.96	19.7	17.958	19.37
20	16-QAM	17.983	19.53	17.931	19.56	17.945	19.63
LTE Band 5 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.098	1.251	1.1005	1.247	1.0926	1.251
1.4	16-QAM	1.104	1.253	1.0903	1.244	1.1	1.254
3	QPSK	2.6858	2.97	2.6894	2.984	2.689	2.991
3	16-QAM	2.685	2.989	2.683	2.97	2.6877	2.995
5	QPSK	4.506	4.993	4.5	4.994	4.523	4.979
5	16-QAM	4.505	4.979	4.522	5.008	4.512	4.985
10	QPSK	8.952	9.733	8.932	9.709	8.932	9.672
10	16-QAM	8.941	9.727	8.942	9.65	8.928	9.669



LTE Band 12 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.098	1.249	1.099	1.249	1.104	1.254
1.4	16-QAM	1.104	1.25	1.0924	1.242	1.102	1.41
3	QPSK	2.6877	2.976	2.692	2.983	2.691	2.972
3	16-QAM	2.69	3	2.686	2.993	2.686	2.978
5	QPSK	4.515	5.007	4.49	4.983	4.531	4.991
5	16-QAM	4.54	5.022	4.527	4.975	4.521	4.993
10	QPSK	8.923	9.692	8.906	9.682	8.968	9.707
10	16-QAM	8.937	9.746	8.909	9.704	8.959	9.717
LTE Band 13 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
5	QPSK	4.498	4.973	4.501	4.95	4.501	4.983
5	16-QAM	4.52	4.984	4.501	4.977	4.5305	4.995
10	QPSK	N/A	N/A	8.93	9.718	N/A	N/A
10	16-QAM	N/A	N/A	8.926	9.706	N/A	N/A

Note: Test chart See Appendix A



6. CONDUCTED BAND EDGE

6.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

6.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, 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

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

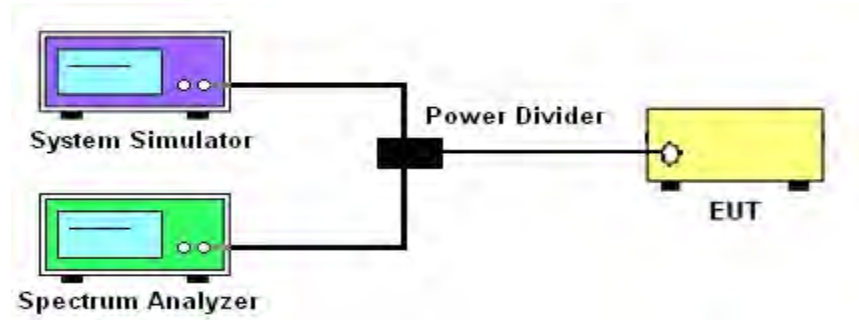
4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

6.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix B

7. CONDUCTED SPURIOUS EMISSION

7.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

7.1.1 MEASUREMENT METHOD

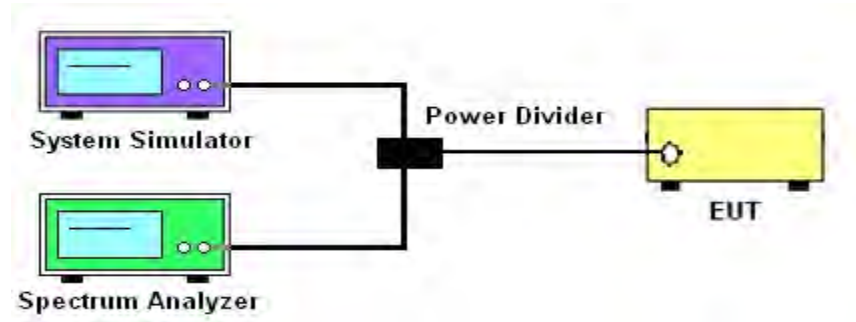
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	Auto	Auto	Auto	Auto	Auto	Auto
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max

7.1.4 TEST RESULTS

Note: Test chart See Appendix C

8. RADIATED SPURIOUS EMISSION

8.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

8.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx (dBuV) + CL (dB) + SA (dB) + Gain (dBi) - 107 (dBuV \text{ to } dBm)$ The SA is calibrated using following setup.

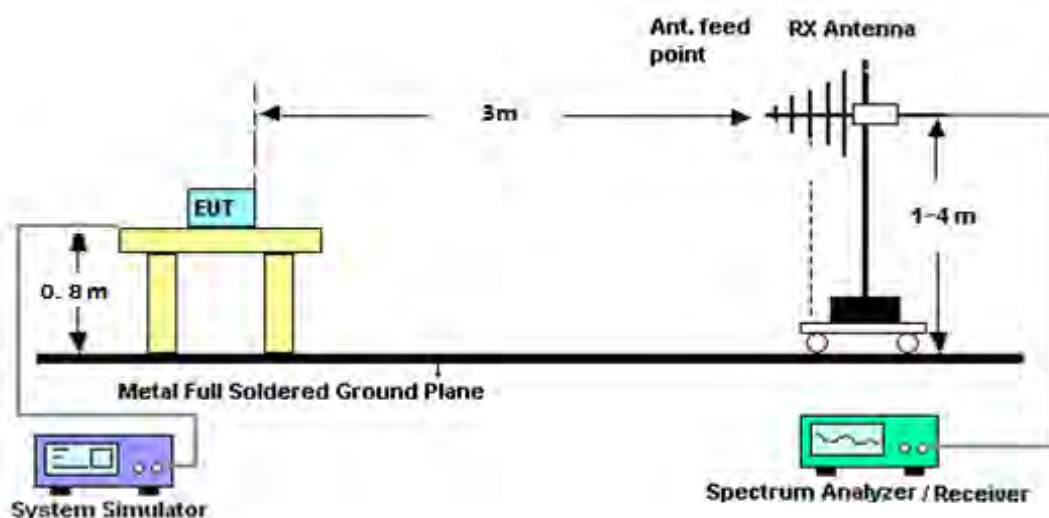
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

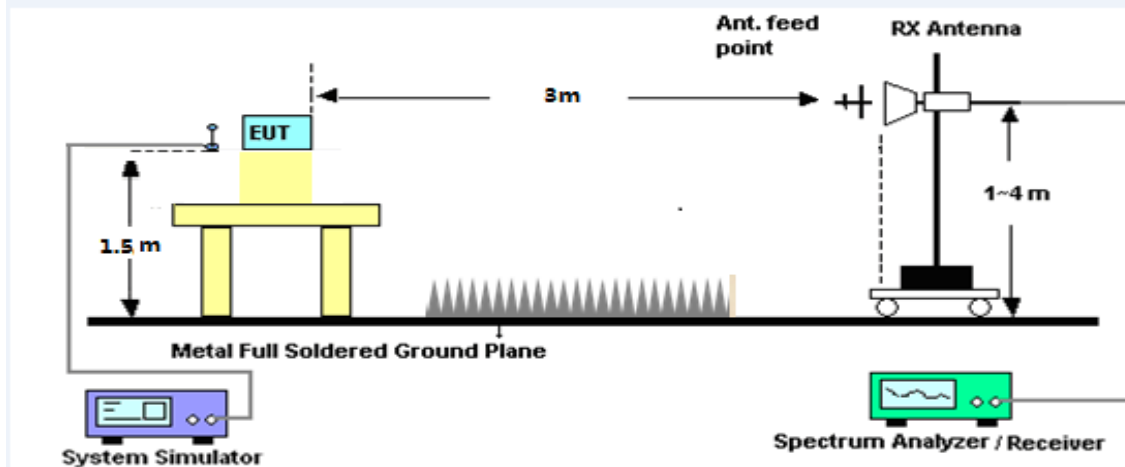
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power=PMea+ARpl

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm

$P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{Mea} - \text{Limit}.$



8.1.4 TEST RESULTS

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.37	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5552.06	-34.15	13.10	17.11	-38.16	-13.00	-25.16	H
7402.76	-32.43	11.50	22.20	-43.13	-13.00	-30.13	H
3701.37	-34.80	12.60	12.93	-35.13	-13.00	-22.13	V
5552.06	-34.04	13.10	17.11	-38.05	-13.00	-25.05	V
7402.76	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.99	-34.55	12.60	12.93	-34.88	-13.00	-21.88	H
5639.83	-34.20	13.10	17.11	-38.21	-13.00	-25.21	H
7519.94	-33.56	11.50	22.20	-44.26	-13.00	-31.26	H
3759.99	-35.10	12.60	12.93	-35.43	-13.00	-22.43	V
5639.83	-34.84	13.10	17.11	-38.85	-13.00	-25.85	V
7519.94	-32.75	11.50	22.20	-43.45	-13.00	-30.45	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.42	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5727.50	-34.77	13.10	17.11	-38.78	-13.00	-25.78	H
7636.89	-32.20	11.50	22.20	-42.90	-13.00	-29.90	H
3818.42	-35.55	12.60	12.93	-35.88	-13.00	-22.88	V
5727.50	-34.00	13.10	17.11	-38.01	-13.00	-25.01	V
7636.89	-31.94	11.50	22.20	-42.64	-13.00	-29.64	V



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3702.98	-34.81	12.60	12.93	-35.14	-13.00	-22.14	H
5554.17	-34.95	13.10	17.11	-38.96	-13.00	-25.96	H
7406.04	-32.76	11.50	22.20	-43.46	-13.00	-30.46	H
3702.98	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5554.17	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7406.04	-32.43	11.50	22.20	-43.13	-13.00	-30.13	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.93	-33.73	12.60	12.93	-34.06	-13.00	-21.06	H
5640.17	-34.74	13.10	17.11	-38.75	-13.00	-25.75	H
7520.09	-33.10	11.50	22.20	-43.80	-13.00	-30.80	H
3759.93	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5640.17	-35.18	13.10	17.11	-39.19	-13.00	-26.19	V
7520.09	-33.15	11.50	22.20	-43.85	-13.00	-30.85	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3816.99	-34.61	12.60	12.93	-34.94	-13.00	-21.94	H
5725.50	-34.08	13.10	17.11	-38.09	-13.00	-25.09	H
7634.03	-32.59	11.50	22.20	-43.29	-13.00	-30.29	H
3816.99	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5725.50	-33.80	13.10	17.11	-37.81	-13.00	-24.81	V
7634.03	-32.15	11.50	22.20	-42.85	-13.00	-29.85	V



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3705.12	-33.67	12.60	12.93	-34.00	-13.00	-21.00	H
5557.12	-35.20	13.10	17.11	-39.21	-13.00	-26.21	H
7410.14	-33.28	11.50	22.20	-43.98	-13.00	-30.98	H
3705.12	-35.86	12.60	12.93	-36.19	-13.00	-23.19	V
5557.12	-33.81	13.10	17.11	-37.82	-13.00	-24.82	V
7410.14	-33.14	11.50	22.20	-43.84	-13.00	-30.84	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.84	-34.88	12.60	12.93	-35.21	-13.00	-22.21	H
5640.28	-34.22	13.10	17.11	-38.23	-13.00	-25.23	H
7519.81	-32.56	11.50	22.20	-43.26	-13.00	-30.26	H
3759.84	-35.13	12.60	12.93	-35.46	-13.00	-22.46	V
5640.28	-33.81	13.10	17.11	-37.82	-13.00	-24.82	V
7519.81	-32.85	11.50	22.20	-43.55	-13.00	-30.55	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3815.35	-33.65	12.60	12.93	-33.98	-13.00	-20.98	H
5722.18	-34.14	13.10	17.11	-38.15	-13.00	-25.15	H
7630.17	-32.82	11.50	22.20	-43.52	-13.00	-30.52	H
3815.35	-35.71	12.60	12.93	-36.04	-13.00	-23.04	V
5722.18	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7630.17	-32.89	11.50	22.20	-43.59	-13.00	-30.59	V



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.24	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5565.09	-34.25	13.10	17.11	-38.26	-13.00	-25.26	H
7420.07	-32.83	11.50	22.20	-43.53	-13.00	-30.53	H
3710.24	-35.82	12.60	12.93	-36.15	-13.00	-23.15	V
5565.09	-34.42	13.10	17.11	-38.43	-13.00	-25.43	V
7420.07	-31.95	11.50	22.20	-42.65	-13.00	-29.65	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.87	-34.02	12.60	12.93	-34.35	-13.00	-21.35	H
5639.93	-34.49	13.10	17.11	-38.50	-13.00	-25.50	H
7519.89	-33.06	11.50	22.20	-43.76	-13.00	-30.76	H
3759.87	-35.51	12.60	12.93	-35.84	-13.00	-22.84	V
5639.93	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7519.89	-32.27	11.50	22.20	-42.97	-13.00	-29.97	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3810.06	-34.86	12.60	12.93	-35.19	-13.00	-22.19	H
5715.10	-34.33	13.10	17.11	-38.34	-13.00	-25.34	H
7620.28	-32.58	11.50	22.20	-43.28	-13.00	-30.28	H
3810.06	-35.98	12.60	12.93	-36.31	-13.00	-23.31	V
5715.10	-34.69	13.10	17.11	-38.70	-13.00	-25.70	V
7620.28	-32.49	11.50	22.20	-43.19	-13.00	-30.19	V



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3714.98	-33.95	12.60	12.93	-34.28	-13.00	-21.28	H
5572.41	-34.78	13.10	17.11	-38.79	-13.00	-25.79	H
7430.57	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3714.98	-35.38	12.60	12.93	-35.71	-13.00	-22.71	V
5572.41	-34.73	13.10	17.11	-38.74	-13.00	-25.74	V
7430.57	-33.00	11.50	22.20	-43.70	-13.00	-30.70	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.03	-34.12	12.60	12.93	-34.45	-13.00	-21.45	H
5639.81	-35.30	13.10	17.11	-39.31	-13.00	-26.31	H
7520.15	-32.80	11.50	22.20	-43.50	-13.00	-30.50	H
3760.03	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5639.81	-34.13	13.10	17.11	-38.14	-13.00	-25.14	V
7520.15	-32.05	11.50	22.20	-42.75	-13.00	-29.75	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3805.32	-34.86	12.60	12.93	-35.19	-13.00	-22.19	H
5707.46	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7610.30	-32.66	11.50	22.20	-43.36	-13.00	-30.36	H
3805.32	-35.57	12.60	12.93	-35.90	-13.00	-22.90	V
5707.46	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7610.30	-32.36	11.50	22.20	-43.06	-13.00	-30.06	V



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3720.49	-34.41	12.60	12.93	-34.74	-13.00	-21.74	H
5580.31	-34.16	13.10	17.11	-38.17	-13.00	-25.17	H
7439.88	-32.21	11.50	22.20	-42.91	-13.00	-29.91	H
3720.49	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5580.31	-33.94	13.10	17.11	-37.95	-13.00	-24.95	V
7439.88	-33.03	11.50	22.20	-43.73	-13.00	-30.73	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.19	-33.77	12.60	12.93	-34.10	-13.00	-21.10	H
5640.14	-34.61	13.10	17.11	-38.62	-13.00	-25.62	H
7520.14	-32.37	11.50	22.20	-43.07	-13.00	-30.07	H
3760.19	-35.63	12.60	12.93	-35.96	-13.00	-22.96	V
5640.14	-34.85	13.10	17.11	-38.86	-13.00	-25.86	V
7520.14	-31.82	11.50	22.20	-42.52	-13.00	-29.52	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3800.00	-34.86	12.60	12.93	-35.19	-13.00	-22.19	H
5700.12	-34.88	13.10	17.11	-38.89	-13.00	-25.89	H
7600.04	-33.25	11.50	22.20	-43.95	-13.00	-30.95	H
3800.00	-35.58	12.60	12.93	-35.91	-13.00	-22.91	V
5700.12	-34.57	13.10	17.11	-38.58	-13.00	-25.58	V
7600.04	-31.91	11.50	22.20	-42.61	-13.00	-29.61	V



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.24	-33.73	12.90	12.56	-33.39	-13.00	-20.39	H
5131.86	-34.45	13.10	16.32	-37.67	-13.00	-24.67	H
6842.73	-32.51	12.33	21.13	-41.31	-13.00	-28.31	H
3421.24	-35.94	12.90	12.56	-35.60	-13.00	-22.60	V
5131.86	-34.05	13.10	16.32	-37.27	-13.00	-24.27	V
6842.73	-32.74	12.33	21.13	-41.54	-13.00	-28.54	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.91	-34.13	12.90	12.56	-33.79	-13.00	-20.79	H
5196.87	-34.81	13.10	16.32	-38.03	-13.00	-25.03	H
6930.18	-32.73	12.33	21.13	-41.53	-13.00	-28.53	H
3464.91	-35.18	12.90	12.56	-34.84	-13.00	-21.84	V
5196.87	-34.42	13.10	16.32	-37.64	-13.00	-24.64	V
6930.18	-32.56	12.33	21.13	-41.36	-13.00	-28.36	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.41	-34.76	12.90	12.56	-34.42	-13.00	-21.42	H
5262.40	-34.88	13.10	16.32	-38.10	-13.00	-25.10	H
7015.72	-32.99	12.33	21.13	-41.79	-13.00	-28.79	H
3508.41	-35.07	12.90	12.56	-34.73	-13.00	-21.73	V
5262.40	-34.14	13.10	16.32	-37.36	-13.00	-24.36	V
7015.72	-31.77	12.33	21.13	-40.57	-13.00	-27.57	V



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3423.77	-33.48	12.90	12.56	-33.14	-13.00	-20.14	H
5136.22	-34.15	13.10	16.32	-37.37	-13.00	-24.37	H
6848.52	-32.94	12.33	21.13	-41.74	-13.00	-28.74	H
3423.77	-35.57	12.90	12.56	-35.23	-13.00	-22.23	V
5136.22	-34.31	13.10	16.32	-37.53	-13.00	-24.53	V
6848.52	-31.81	12.33	21.13	-40.61	-13.00	-27.61	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.75	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5196.86	-34.41	13.10	16.32	-37.63	-13.00	-24.63	H
6930.03	-32.49	12.33	21.13	-41.29	-13.00	-28.29	H
3464.75	-35.81	12.90	12.56	-35.47	-13.00	-22.47	V
5196.86	-34.83	13.10	16.32	-38.05	-13.00	-25.05	V
6930.03	-33.20	12.33	21.13	-42.00	-13.00	-29.00	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.06	-33.63	12.90	12.56	-33.29	-13.00	-20.29	H
5261.88	-34.86	13.10	16.32	-38.08	-13.00	-25.08	H
7012.42	-33.03	12.33	21.13	-41.83	-13.00	-28.83	H
3506.06	-35.84	12.90	12.56	-35.50	-13.00	-22.50	V
5261.88	-33.83	13.10	16.32	-37.05	-13.00	-24.05	V
7012.42	-32.95	12.33	21.13	-41.75	-13.00	-28.75	V



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.63	-34.77	12.90	12.56	-34.43	-13.00	-21.43	H
5137.31	-35.01	13.10	16.32	-38.23	-13.00	-25.23	H
6849.70	-33.25	12.33	21.13	-42.05	-13.00	-29.05	H
3424.63	-35.79	12.90	12.56	-35.45	-13.00	-22.45	V
5137.31	-34.49	13.10	16.32	-37.71	-13.00	-24.71	V
6849.70	-32.20	12.33	21.13	-41.00	-13.00	-28.00	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.57	-34.04	12.90	12.56	-33.70	-13.00	-20.70	H
5196.62	-35.34	13.10	16.32	-38.56	-13.00	-25.56	H
6929.86	-32.84	12.33	21.13	-41.64	-13.00	-28.64	H
3464.57	-34.73	12.90	12.56	-34.39	-13.00	-21.39	V
5196.62	-34.27	13.10	16.32	-37.49	-13.00	-24.49	V
6929.86	-32.08	12.33	21.13	-40.88	-13.00	-27.88	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3504.99	-34.56	12.90	12.56	-34.22	-13.00	-21.22	H
5257.15	-34.08	13.10	16.32	-37.30	-13.00	-24.30	H
7010.21	-32.16	12.33	21.13	-40.96	-13.00	-27.96	H
3504.99	-35.84	12.90	12.56	-35.50	-13.00	-22.50	V
5257.15	-34.36	13.10	16.32	-37.58	-13.00	-24.58	V
7010.21	-32.44	12.33	21.13	-41.24	-13.00	-28.24	V



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3430.20	-34.04	12.90	12.56	-33.70	-13.00	-20.70	H
5145.44	-34.62	13.10	16.32	-37.84	-13.00	-24.84	H
6860.39	-33.50	12.33	21.13	-42.30	-13.00	-29.30	H
3430.20	-35.83	12.90	12.56	-35.49	-13.00	-22.49	V
5145.44	-33.90	13.10	16.32	-37.12	-13.00	-24.12	V
6860.39	-32.66	12.33	21.13	-41.46	-13.00	-28.46	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.82	-34.65	12.90	12.56	-34.31	-13.00	-21.31	H
5196.38	-34.24	13.10	16.32	-37.46	-13.00	-24.46	H
6929.72	-33.38	12.33	21.13	-42.18	-13.00	-29.18	H
3464.82	-35.24	12.90	12.56	-34.90	-13.00	-21.90	V
5196.38	-34.02	13.10	16.32	-37.24	-13.00	-24.24	V
6929.72	-31.78	12.33	21.13	-40.58	-13.00	-27.58	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.13	-33.74	12.90	12.56	-33.40	-13.00	-20.40	H
5250.15	-34.61	13.10	16.32	-37.83	-13.00	-24.83	H
7000.13	-33.27	12.33	21.13	-42.07	-13.00	-29.07	H
3500.13	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5250.15	-35.01	13.10	16.32	-38.23	-13.00	-25.23	V
7000.13	-32.14	12.33	21.13	-40.94	-13.00	-27.94	V



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3434.72	-34.23	12.90	12.56	-33.89	-13.00	-20.89	H
5152.29	-34.31	13.10	16.32	-37.53	-13.00	-24.53	H
6870.43	-32.42	12.33	21.13	-41.22	-13.00	-28.22	H
3434.72	-35.51	12.90	12.56	-35.17	-13.00	-22.17	V
5152.29	-34.24	13.10	16.32	-37.46	-13.00	-24.46	V
6870.43	-31.72	12.33	21.13	-40.52	-13.00	-27.52	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.02	-33.89	12.90	12.56	-33.55	-13.00	-20.55	H
5196.58	-35.29	13.10	16.32	-38.51	-13.00	-25.51	H
6930.09	-32.23	12.33	21.13	-41.03	-13.00	-28.03	H
3465.02	-34.56	12.90	12.56	-34.22	-13.00	-21.22	V
5196.58	-33.95	13.10	16.32	-37.17	-13.00	-24.17	V
6930.09	-32.53	12.33	21.13	-41.33	-13.00	-28.33	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.19	-33.80	12.90	12.56	-33.46	-13.00	-20.46	H
5242.19	-35.40	13.10	16.32	-38.62	-13.00	-25.62	H
6990.21	-32.99	12.33	21.13	-41.79	-13.00	-28.79	H
3495.19	-35.42	12.90	12.56	-35.08	-13.00	-22.08	V
5242.19	-34.18	13.10	16.32	-37.40	-13.00	-24.40	V
6990.21	-31.97	12.33	21.13	-40.77	-13.00	-27.77	V



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.01	-33.97	12.90	12.56	-33.63	-13.00	-20.63	H
5160.33	-34.97	13.10	16.32	-38.19	-13.00	-25.19	H
6880.69	-33.26	12.33	21.13	-42.06	-13.00	-29.06	H
3440.01	-35.40	12.90	12.56	-35.06	-13.00	-22.06	V
5160.33	-35.10	13.10	16.32	-38.32	-13.00	-25.32	V
6880.69	-31.74	12.33	21.13	-40.54	-13.00	-27.54	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.99	-33.63	12.90	12.56	-33.29	-13.00	-20.29	H
5196.76	-34.17	13.10	16.32	-37.39	-13.00	-24.39	H
6929.85	-32.75	12.33	21.13	-41.55	-13.00	-28.55	H
3464.99	-35.75	12.90	12.56	-35.41	-13.00	-22.41	V
5196.76	-33.91	13.10	16.32	-37.13	-13.00	-24.13	V
6929.85	-32.48	12.33	21.13	-41.28	-13.00	-28.28	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.52	-33.62	12.90	12.56	-33.28	-13.00	-20.28	H
5235.20	-34.93	13.10	16.32	-38.15	-13.00	-25.15	H
6979.61	-33.42	12.33	21.13	-42.22	-13.00	-29.22	H
3490.52	-35.14	12.90	12.56	-34.80	-13.00	-21.80	V
5235.20	-34.08	13.10	16.32	-37.30	-13.00	-24.30	V
6979.61	-32.35	12.33	21.13	-41.15	-13.00	-28.15	V



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.59	-33.78	9.56	9.72	-33.94	-13.00	-20.94	H
2473.70	-34.12	10.50	10.86	-34.48	-13.00	-21.48	H
3298.54	-32.31	12.78	11.57	-31.10	-13.00	-18.10	H
1648.59	-35.32	9.56	9.72	-35.48	-13.00	-22.48	V
2473.70	-34.35	10.50	10.86	-34.71	-13.00	-21.71	V
3298.54	-32.33	12.78	11.57	-31.12	-13.00	-18.12	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.63	-34.78	9.56	9.72	-34.94	-13.00	-21.94	H
2509.10	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3345.60	-32.65	12.78	11.57	-31.44	-13.00	-18.44	H
1672.63	-35.56	9.56	9.72	-35.72	-13.00	-22.72	V
2509.10	-33.91	10.50	10.86	-34.27	-13.00	-21.27	V
3345.60	-32.09	12.78	11.57	-30.88	-13.00	-17.88	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.17	-33.95	9.56	9.72	-34.11	-13.00	-21.11	H
2544.51	-34.58	10.50	10.86	-34.94	-13.00	-21.94	H
3392.74	-32.34	12.78	11.57	-31.13	-13.00	-18.13	H
1696.17	-35.97	9.56	9.72	-36.13	-13.00	-23.13	V
2544.51	-33.75	10.50	10.86	-34.11	-13.00	-21.11	V
3392.74	-32.92	12.78	11.57	-31.71	-13.00	-18.71	V



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1650.33	-34.53	9.56	9.72	-34.69	-13.00	-21.69	H
2476.14	-34.84	10.50	10.86	-35.20	-13.00	-22.20	H
3301.39	-32.49	12.78	11.57	-31.28	-13.00	-18.28	H
1650.33	-35.04	9.56	9.72	-35.20	-13.00	-22.20	V
2476.14	-34.60	10.50	10.86	-34.96	-13.00	-21.96	V
3301.39	-33.18	12.78	11.57	-31.97	-13.00	-18.97	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.51	-34.69	9.56	9.72	-34.85	-13.00	-21.85	H
2509.07	-34.70	10.50	10.86	-35.06	-13.00	-22.06	H
3345.85	-32.64	12.78	11.57	-31.43	-13.00	-18.43	H
1672.51	-35.64	9.56	9.72	-35.80	-13.00	-22.80	V
2509.07	-34.16	10.50	10.86	-34.52	-13.00	-21.52	V
3345.85	-31.78	12.78	11.57	-30.57	-13.00	-17.57	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1694.42	-34.38	9.56	9.72	-34.54	-13.00	-21.54	H
2541.89	-34.16	10.50	10.86	-34.52	-13.00	-21.52	H
3389.12	-33.24	12.78	11.57	-32.03	-13.00	-19.03	H
1694.42	-34.56	9.56	9.72	-34.72	-13.00	-21.72	V
2541.89	-34.89	10.50	10.86	-35.25	-13.00	-22.25	V
3389.12	-32.37	12.78	11.57	-31.16	-13.00	-18.16	V



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.62	-34.03	9.56	9.72	-34.19	-13.00	-21.19	H
2478.84	-35.13	10.50	10.86	-35.49	-13.00	-22.49	H
3305.55	-33.33	12.78	11.57	-32.12	-13.00	-19.12	H
1652.62	-36.01	9.56	9.72	-36.17	-13.00	-23.17	V
2478.84	-34.10	10.50	10.86	-34.46	-13.00	-21.46	V
3305.55	-31.94	12.78	11.57	-30.73	-13.00	-17.73	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.13	-34.70	9.56	9.72	-34.86	-13.00	-21.86	H
2509.00	-34.73	10.50	10.86	-35.09	-13.00	-22.09	H
3345.45	-32.20	12.78	11.57	-30.99	-13.00	-17.99	H
1672.13	-34.56	9.56	9.72	-34.72	-13.00	-21.72	V
2509.00	-34.06	10.50	10.86	-34.42	-13.00	-21.42	V
3345.45	-32.49	12.78	11.57	-31.28	-13.00	-18.28	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.43	-34.47	9.56	9.72	-34.63	-13.00	-21.63	H
2538.81	-34.93	10.50	10.86	-35.29	-13.00	-22.29	H
3385.61	-32.30	12.78	11.57	-31.09	-13.00	-18.09	H
1692.43	-35.12	9.56	9.72	-35.28	-13.00	-22.28	V
2538.81	-35.15	10.50	10.86	-35.51	-13.00	-22.51	V
3385.61	-32.96	12.78	11.57	-31.75	-13.00	-18.75	V



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.78	-34.03	9.56	9.72	-34.19	-13.00	-21.19	H
2486.27	-35.03	10.50	10.86	-35.39	-13.00	-22.39	H
3315.48	-32.96	12.78	11.57	-31.75	-13.00	-18.75	H
1657.78	-35.06	9.56	9.72	-35.22	-13.00	-22.22	V
2486.27	-34.44	10.50	10.86	-34.80	-13.00	-21.80	V
3315.48	-32.27	12.78	11.57	-31.06	-13.00	-18.06	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.17	-34.40	9.56	9.72	-34.56	-13.00	-21.56	H
2508.78	-34.16	10.50	10.86	-34.52	-13.00	-21.52	H
3345.12	-32.89	12.78	11.57	-31.68	-13.00	-18.68	H
1672.17	-34.91	9.56	9.72	-35.07	-13.00	-22.07	V
2508.78	-33.92	10.50	10.86	-34.28	-13.00	-21.28	V
3345.12	-33.11	12.78	11.57	-31.90	-13.00	-18.90	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.37	-33.73	9.56	9.72	-33.89	-13.00	-20.89	H
2531.31	-34.61	10.50	10.86	-34.97	-13.00	-21.97	H
3375.59	-33.38	12.78	11.57	-32.17	-13.00	-19.17	H
1687.37	-34.63	9.56	9.72	-34.79	-13.00	-21.79	V
2531.31	-33.90	10.50	10.86	-34.26	-13.00	-21.26	V
3375.59	-32.70	12.78	11.57	-31.49	-13.00	-18.49	V



LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1398.92	-33.70	8.17	9.34	-34.87	-13.00	-21.87	H
2098.97	-34.83	9.53	10.42	-35.72	-13.00	-22.72	H
2798.76	-32.69	11.27	11.12	-32.54	-13.00	-19.54	H
1398.92	-34.85	8.17	9.34	-36.02	-13.00	-23.02	V
2098.97	-34.80	9.53	10.42	-35.69	-13.00	-22.69	V
2798.76	-33.00	11.27	11.12	-32.85	-13.00	-19.85	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.62	-33.87	8.17	9.34	-35.04	-13.00	-22.04	H
2122.35	-35.13	9.53	10.42	-36.02	-13.00	-23.02	H
2829.87	-32.41	11.27	11.12	-32.26	-13.00	-19.26	H
1414.62	-35.60	8.17	9.34	-36.77	-13.00	-23.77	V
2122.35	-34.56	9.53	10.42	-35.45	-13.00	-22.45	V
2829.87	-33.21	11.27	11.12	-33.06	-13.00	-20.06	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.26	-34.22	8.17	9.34	-35.39	-13.00	-22.39	H
2145.83	-34.62	9.53	10.42	-35.51	-13.00	-22.51	H
2860.94	-33.13	11.27	11.12	-32.98	-13.00	-19.98	H
1430.26	-35.46	8.17	9.34	-36.63	-13.00	-23.63	V
2145.83	-35.16	9.53	10.42	-36.05	-13.00	-23.05	V
2860.94	-32.76	11.27	11.12	-32.61	-13.00	-19.61	V



LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1400.60	-34.71	8.17	9.34	-35.88	-13.00	-22.88	H
2101.13	-34.04	9.53	10.42	-34.93	-13.00	-21.93	H
2801.52	-32.77	11.27	11.12	-32.62	-13.00	-19.62	H
1400.60	-35.39	8.17	9.34	-36.56	-13.00	-23.56	V
2101.13	-35.12	9.53	10.42	-36.01	-13.00	-23.01	V
2801.52	-33.14	11.27	11.12	-32.99	-13.00	-19.99	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.66	-34.87	8.17	9.34	-36.04	-13.00	-23.04	H
2122.16	-34.31	9.53	10.42	-35.20	-13.00	-22.20	H
2829.82	-33.04	11.27	11.12	-32.89	-13.00	-19.89	H
1414.66	-35.31	8.17	9.34	-36.48	-13.00	-23.48	V
2122.16	-34.63	9.53	10.42	-35.52	-13.00	-22.52	V
2829.82	-32.84	11.27	11.12	-32.69	-13.00	-19.69	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1428.62	-33.70	8.17	9.34	-34.87	-13.00	-21.87	H
2143.01	-34.55	9.53	10.42	-35.44	-13.00	-22.44	H
2857.99	-33.59	11.27	11.12	-33.44	-13.00	-20.44	H
1428.62	-35.53	8.17	9.34	-36.70	-13.00	-23.70	V
2143.01	-34.08	9.53	10.42	-34.97	-13.00	-21.97	V
2857.99	-33.00	11.27	11.12	-32.85	-13.00	-19.85	V



LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1402.57	-34.05	8.17	9.34	-35.22	-13.00	-22.22	H
2104.42	-34.54	9.53	10.42	-35.43	-13.00	-22.43	H
2805.98	-32.17	11.27	11.12	-32.02	-13.00	-19.02	H
1402.57	-35.34	8.17	9.34	-36.51	-13.00	-23.51	V
2104.42	-34.78	9.53	10.42	-35.67	-13.00	-22.67	V
2805.98	-31.91	11.27	11.12	-31.76	-13.00	-18.76	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.90	-33.73	8.17	9.34	-34.90	-13.00	-21.90	H
2122.06	-34.62	9.53	10.42	-35.51	-13.00	-22.51	H
2829.71	-32.73	11.27	11.12	-32.58	-13.00	-19.58	H
1414.90	-35.94	8.17	9.34	-37.11	-13.00	-24.11	V
2122.06	-34.06	9.53	10.42	-34.95	-13.00	-21.95	V
2829.71	-32.69	11.27	11.12	-32.54	-13.00	-19.54	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.98	-34.17	8.17	9.34	-35.34	-13.00	-22.34	H
2140.19	-35.16	9.53	10.42	-36.05	-13.00	-23.05	H
2853.82	-33.53	11.27	11.12	-33.38	-13.00	-20.38	H
1426.98	-35.32	8.17	9.34	-36.49	-13.00	-23.49	V
2140.19	-33.81	9.53	10.42	-34.70	-13.00	-21.70	V
2853.82	-32.57	11.27	11.12	-32.42	-13.00	-19.42	V



LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1407.87	-33.57	8.17	9.34	-34.74	-13.00	-21.74	H
2111.75	-34.48	9.53	10.42	-35.37	-13.00	-22.37	H
2815.83	-32.16	11.27	11.12	-32.01	-13.00	-19.01	H
1407.87	-35.42	8.17	9.34	-36.59	-13.00	-23.59	V
2111.75	-34.27	9.53	10.42	-35.16	-13.00	-22.16	V
2815.83	-32.11	11.27	11.12	-31.96	-13.00	-18.96	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.66	-33.94	8.17	9.34	-35.11	-13.00	-22.11	H
2122.25	-35.17	9.53	10.42	-36.06	-13.00	-23.06	H
2829.70	-33.37	11.27	11.12	-33.22	-13.00	-20.22	H
1414.66	-35.99	8.17	9.34	-37.16	-13.00	-24.16	V
2122.25	-34.76	9.53	10.42	-35.65	-13.00	-22.65	V
2829.70	-31.94	11.27	11.12	-31.79	-13.00	-18.79	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.65	-33.84	8.17	9.34	-35.01	-13.00	-22.01	H
2132.92	-34.61	9.53	10.42	-35.50	-13.00	-22.50	H
2843.94	-32.47	11.27	11.12	-32.32	-13.00	-19.32	H
1421.65	-35.92	8.17	9.34	-37.09	-13.00	-24.09	V
2132.92	-34.16	9.53	10.42	-35.05	-13.00	-22.05	V
2843.94	-32.80	11.27	11.12	-32.65	-13.00	-19.65	V



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1559.57	-47.90	9.56	9.72	-48.06	-40.00	-8.06	H
2338.38	-47.00	10.50	10.86	-47.36	-13.00	-34.36	H
3117.94	-45.75	12.78	11.57	-44.54	-13.00	-31.54	H
1559.57	-48.21	9.56	9.72	-48.37	-40.00	-8.37	V
2338.38	-46.41	10.50	10.86	-46.77	-13.00	-33.77	V
3117.94	-46.23	12.78	11.57	-45.02	-13.00	-32.02	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.04	-47.83	9.56	9.72	-47.99	-40.00	-7.99	H
2345.92	-47.06	10.50	10.86	-47.42	-13.00	-34.42	H
3127.81	-46.41	12.78	11.57	-45.20	-13.00	-32.20	H
1564.04	-48.51	9.56	9.72	-48.67	-40.00	-8.67	V
2345.92	-46.92	10.50	10.86	-47.28	-13.00	-34.28	V
3127.81	-46.60	12.78	11.57	-45.39	-13.00	-32.39	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1568.86	-47.49	9.56	9.72	-47.65	-40.00	-7.65	H
2353.32	-47.21	10.50	10.86	-47.57	-13.00	-34.57	H
3138.30	-45.42	12.78	11.57	-44.21	-13.00	-31.21	H
1568.86	-47.77	9.56	9.72	-47.93	-40.00	-7.93	V
2353.32	-46.24	10.50	10.86	-46.60	-13.00	-33.60	V
3138.30	-46.57	12.78	11.57	-45.36	-13.00	-32.36	V

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1563.77	-48.04	9.56	9.72	-48.20	-40.00	-8.20	H
2346.22	-46.65	10.50	10.86	-47.01	-13.00	-34.01	H
3128.03	-45.83	12.78	11.57	-44.62	-13.00	-31.62	H
1563.77	-47.87	9.56	9.72	-48.03	-40.00	-8.03	V
2346.22	-46.43	10.50	10.86	-46.79	-13.00	-33.79	V
3128.03	-46.25	12.78	11.57	-45.04	-13.00	-32.04	V

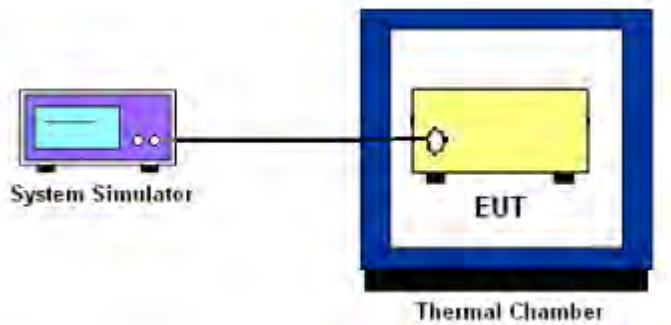
9. FREQUENCY STABILITY

9.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

9.1.2 TEST SETUP



9.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

9.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



9.1.5 TEST RESULTS

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	18.65	0.010	2.5ppm	PASS
40		22.68	0.012		
30		15.48	0.008		
20		27.80	0.015		
10		22.89	0.012		
0		17.63	0.009		
-10		35.90	0.019		
-20		32.69	0.017		
-30		14.58	0.008		
20	Maximum Voltage	16.55	0.009		
20	BEP	29.23	0.016		

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	16.19	0.009	2.5ppm	PASS
40		30.34	0.016		
30		19.03	0.010		
20		11.90	0.006		
10		29.11	0.015		
0		20.68	0.011		
-10		18.48	0.010		
-20		34.40	0.018		
-30		30.43	0.016		
20	Maximum Voltage	24.58	0.013		
20	BEP	16.44	0.009		



LTE Band 4 (QPSK) / 1733MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.37	0.015	2.5ppm	PASS
40		12.09	0.007		
30		18.62	0.011		
20		35.42	0.020		
10		35.08	0.020		
0		23.72	0.014		
-10		17.57	0.010		
-20		16.27	0.009		
-30		23.72	0.014		
20	Maximum Voltage	29.38	0.017		
20	BEP	34.82	0.020		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.07	0.015	2.5ppm	PASS
40		35.87	0.021		
30		32.48	0.019		
20		32.68	0.019		
10		32.13	0.019		
0		19.65	0.011		
-10		17.38	0.010		
-20		29.34	0.017		
-30		14.16	0.008		
20	Maximum Voltage	16.56	0.010		
20	BEP	14.47	0.008		



LTE Band 5 (QPSK) / 836.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	31.99	0.045	2.5ppm	PASS
40		34.51	0.049		
30		13.04	0.018		
20		14.90	0.021		
10		28.43	0.040		
0		19.01	0.027		
-10		19.97	0.003		
-20		32.43	0.046		
-30		26.28	0.037		
20	Maximum Voltage	31.04	0.044		
20	BEP	22.25	0.031		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	32.08	0.045	2.5ppm	PASS
40		15.06	0.021		
30		25.69	0.036		
20		11.65	0.016		
10		22.32	0.031		
0		22.41	0.032		
-10		23.53	0.003		
-20		13.03	0.018		
-30		26.05	0.037		
20	Maximum Voltage	29.28	0.041		
20	BEP	24.77	0.035		



LTE Band 12 (QPSK) / 707.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	34.47	0.049	2.5ppm	PASS
40		28.49	0.040		
30		16.24	0.023		
20		21.49	0.030		
10		23.63	0.033		
0		19.22	0.027		
-10		12.00	0.002		
-20		35.65	0.050		
-30		25.50	0.036		
20	Maximum Voltage	15.40	0.022		
20	BEP	12.00	0.017		

LTE Band 12 (QPSK) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.18	0.050	2.5ppm	PASS
40		24.23	0.034		
30		13.95	0.020		
20		20.85	0.029		
10		14.75	0.021		
0		31.15	0.044		
-10		17.53	0.002		
-20		23.09	0.033		
-30		27.18	0.038		
20	Maximum Voltage	29.40	0.041		
20	BEP	13.10	0.018		



LTE Band 13 (QPSK) / 782MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.56	0.022	2.5ppm	PASS
40		32.50	0.046		
30		30.63	0.043		
20		20.43	0.029		
10		29.18	0.041		
0		25.03	0.035		
-10		11.88	0.002		
-20		25.80	0.036		
-30		20.43	0.029		
20	Maximum Voltage	31.44	0.044		
20	BEP	28.05	0.040		

LTE Band 13 (QPSK) / 782MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.26	0.051	2.5ppm	PASS
40		21.41	0.030		
30		13.09	0.018		
20		35.45	0.050		
10		31.27	0.044		
0		18.49	0.026		
-10		33.71	0.005		
-20		34.26	0.048		
-30		30.36	0.043		
20	Maximum Voltage	12.74	0.018		
20	BEP	25.54	0.036		



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

