



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC TEST REPORT

FCC Part 22/Part 24/Part 27/Part 90

Report Reference No......: **GTS20251018009-1-09**

FCC ID.....: **2AYD5-I25M01**

Compiled by

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Date of issue.....: Mar.20, 2026

Representative Laboratory Name ..: **Shenzhen Global Test Service Co.,Ltd.**

Address: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name: **Imin Technology Pte Ltd**

Address: 11 Bishan Street 21 #03-05 Singapore 573943

Test specification

Standard: **FCC CFR Title 47 Part 2, Part 22H, Part 24E, Part 27, Part 90 EIA/TIA 603-E**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd..

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Test item description: **POS Device**

Trade Mark: **imin**

Manufacturer: Imin Technology Pte Ltd

Model/Type reference.....: I25M01

Listed Models: N/A

Modulation Type.....: QPSK, 16QAM

Hardware Version: N/A

Software Version: N/A

Rating: DC 3.85V by battery
Recharged by DC 9.0V

Result.....: **PASS**

TEST REPORT

Test Report No. :	GTS20251018009-1-09	Mar.20, 2026
		Date of issue

Equipment under Test : POS Device

Model /Type : I25M01

Listed model : N/A

Applicant : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Manufacturer : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 4.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 22](#) : PUBLIC MOBILE SERVICES

[FCC Part 24](#) : PERSONAL COMMUNICATIONS SERVICES

[FCC Part 27](#) : MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[FCC Part 90](#): Private Land Mobile Radio Services.

[TIA-603-E March 2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[47 CFR FCC Part 15 Subpart B](#): - Unintentional Radiators

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC KDB971168 D01](#) Power Meas License Digital Systems v03r01

[ANSI C63.4:2014](#): Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

2 GENERAL INFORMATION

2.1 General Remarks

Date of receipt of test sample	:	Jan.08, 2026
Testing commenced on	:	Jan.08, 2026
Testing concluded on	:	Mar.19, 2026

2.2 Product Description

Product Name:	POS Device
Trade Mark:	
Model/Type reference:	I25M01
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 3.85V by battery Recharged by DC 9.0V
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20251018009-1-S001-1# GTS20251018009-1-S001-2#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz IEEE 802.11ax HE20:2412-2462MHz IEEE 802.11ax HE40:2422-2452MHz
WLAN Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20) 7 Channel for IEEE 802.11n/ax (HT40)
Channel separation:	5MHz
WIFI(5.2G/5.3G/5.7G/5.8G Band)	
WLAN Operation frequency	5180-5250MHz/ 5250MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz

WLAN Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT160: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE160: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5775MHz) 1 channels for 160MHz bandwidth(5250MHz) 1 channels for 160MHz bandwidth(5570MHz)
Antenna Description	Two FPC antenna respectively. WLAN support 2*2MIMO technology. ANT1 used for BT&WIFI TX/RX, 2.41 dBi(Max.) for 2.4G Band and 2.75 dBi (Max.) for 5G Band. ANT2 used for WIFI TX/RX, 2.41 dBi(Max.) for 2.4G Band and 2.75 dBi (Max.) for 5G Band.
RFID(13.56MHz) (Optional)	
Frequency Range	13.56MHz
Channel Number	1
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.)
3G	
UMTS Operation Frequency Band	UMTS FDD Band 2(1850 MHz -1910MHz), UMTS FDD Band 4(1710 MHz -1755MHz), UMTS FDD Band 5(824 MHz -849MHz)
WCDMA Release Version	R7
HSDPA Release Version	Release 6
HSUPA Release Version	Release 8
HSPA+ Release Version	Release 8
Modulation Type	QPSK for UMTS
Antenna Description	FPC Antenna; 1.21dBi (max.) For WCDMA Band 2; 1.36dBi (max.) For WCDMA Band 4; -1.31dBi (max.) For WCDMA Band 5;
LTE	

LTE Operation Frequency Band	E-UTRA Band 2(1850 MHz -1910MHz) E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 12(699 MHz -716MHz) E-UTRA Band 13(777 MHz -787MHz) E-UTRA Band 14(788 MHz -798MHz) E-UTRA Band 66(1710 MHz -1780MHz) E-UTRA Band 71(663 MHz -698MHz)
LTE Release Version	R10
Type Of Modulation	QPSK/16QAM
Antenna Description	FPC Antenna; 1.21dBi (max.) For LTE Band 2; 1.36dBi (max.) For LTE Band 4; -1.31dBi (max.) For LTE Band 5; -1.68dBi (max.) For LTE Band 12; -1.97dBi (max.) For LTE Band 13; -2.26dBi (max.) For LTE Band 14; 1.36dBi (max.) For LTE Band 66; -1.59dBi (max.) For LTE Band 71;
GPS(RX)	Support
Remark:The I25M01 model has 2 versions, Both versions can be configured with eSIM, PSIM or without any configuration; Version A: With scanning head; Version B: No scanning head;	

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐	230V / 50 Hz	☐	120V / 60Hz
		☐	12 V DC	☐	24 V DC
		☒	Other (specified in blank below)		

DC 3.85V

2.4 Short description of the Equipment under Test (EUT)

This is a POS Device..For more details, refer to the user's manual of the EUT.

2.5 Environmental conditions

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

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

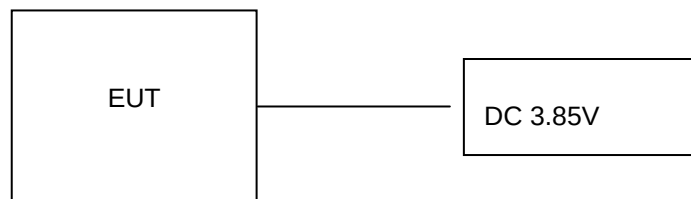
2.6 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
2. Test method and refer to 3GPP TS136521.

2.7 Block Diagram of Test Setup



2.8 Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPD-203A120167UF01	--	SDOC

2.9 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with of the FCC Part 22, Part 24, Part 27,Part 90 Rules.

2.10 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.4 (2014) and CISPR Publication 22.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1401.

FCC Registered Test Site Number is 684561.

3.3 Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5 Test Description

Test Item	Section in CFR 47	Test Sample	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50 Part 90.635	GTS20251018009-1-1#	Pass
Peak-to-Average Ratio	Part 2.1046 Part 24.232 Part 27.50(d)	GTS20251018009-1-1#	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049	GTS20251018009-1-1#	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 Part 27.53 Part 90.691	GTS20251018009-1-1#	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917(b) Part 24.238 Part 27.53 Part 90.691	GTS20251018009-1-1#	Pass
Out of band emission, Band Edge	Part 2.1051 Part 22.917(b) Part 22.917(b) Part 24.238 Part 27.53 Part 90.691	GTS20251018009-1-1#	Pass
Frequency stability	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213	GTS20251018009-1-1#	Pass

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (SAR Report).
5. We tested all test mode and recorded worst case in report

3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2025/07/07	2026/07/06
LISN	R&S	ESH2-Z5	893606/008	2025/07/07	2026/07/06
EMI Test Receiver	R&S	ESPI3	101841-cd	2025/07/04	2026/07/03
EMI Test Receiver	R&S	ESCI7	101102	2025/07/04	2026/07/03
Spectrum Analyzer	Agilent	N9020A	MY48010425	2025/07/04	2026/07/03
Spectrum Analyzer	R&S	FSV40-N	101800	2025/07/04	2026/07/03
Vector Signal generator	Agilent	N5181A	MY49060502	2025/07/15	2026/07/14
Signal generator	Agilent	N5182A	3610AO1069	2025/07/04	2026/07/03
Climate Chamber	ESPEC	EL-10KA	A20120523	2025/07/15	2026/07/14
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2025/12/01	2026/11/30
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2025/07/04	2026/07/03
Bilog Antenna	Schwarzbeck	VULB9163	000976	2025/07/15	2026/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2025/07/15	2026/07/14
Amplifier	SKET	LAPA_30M01G-32	SK20240104001	2025/12/01	2026/11/30
Amplifier	EMCI	EMC012645SE	980340	2025/12/01	2026/11/30
Amplifier	Schwarzbeck	BBV9179	9719-025	2025/12/01	2026/11/30
Temperature/Humidity Meter	Gangxing	CTH-608	02	2025/07/16	2026/07/15
High-Pass Filter	HUBER+SUHNER	RG214	RE01	2025/07/04	2026/07/03
High-Pass Filter	HUBER+SUHNER	RG214	RE02	2025/07/04	2026/07/03
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2025/07/15	2026/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2025/07/15	2026/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2025/07/15	2026/07/14
Power Sensor	Agilent	U2021XA	MY5365004	2025/07/04	2026/07/03
Test Control Unit	Tonscend	JS0806-1	178060067	2025/12/01	2026/11/30
Automated filter bank	Tonscend	JS0806-F	19F8060177	2025/12/01	2026/11/30
Wireless Communication Tester	Rohde&Schwarz	CMW500	125408	2025/12/01	2026/11/30
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4 TEST CONDITIONS AND RESULTS

4.1 Output Power

LIMIT

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 30 Watts for LTE Band 14.

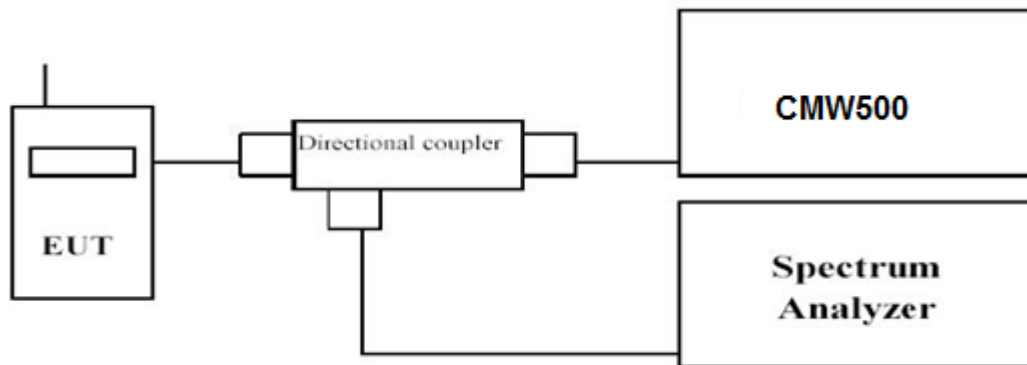
The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, LTE Band 13, LTE Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2.

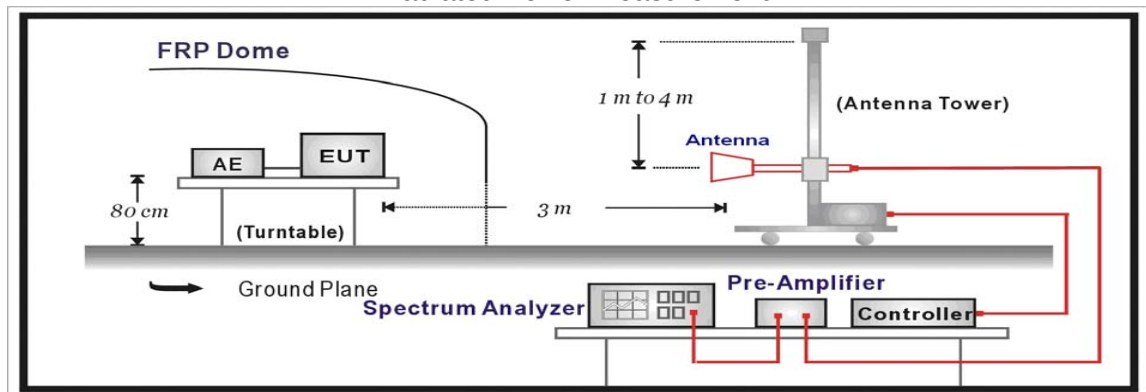
The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603-E

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the
- e. transmitter under test.
- f. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- g. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- h. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- i. The maximum signal level detected by the measuring receiver shall be noted.
- j. The transmitter shall be replaced by a substitution antenna.
- k. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- l. The substitution antenna shall be connected to a calibrated signal generator.
- m. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- n. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- o. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- p. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- q. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- r. Test site anechoic chamber refer to ANSI C63.26.

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

Conducted Measurement:

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

- 1.For E-UTRA Band 2, please refer to Appendix Band 2: Section A;
- 2.For E-UTRA Band 4, please refer to Appendix Band 4: Section A;
- 3.For E-UTRA Band 5, please refer to Appendix Band 5: Section A;
- 4.For E-UTRA Band 12, please refer to Appendix Band 12: Section A;
- 5.For E-UTRA Band 13, please refer to Appendix Band 13: Section A;
- 6.For E-UTRA Band 14, please refer to Appendix Band 14: Section A;
- 7.For E-UTRA Band 66, please refer to Appendix Band 66: Section A;
- 8.For E-UTRA Band 71, please refer to Appendix Band 71: Section A;

NOTE:We measured all modes and only recorded the worst case.

Radiated Measurement:

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;
2. $ERP = EIRP - 2.15\text{dBi}$ as EIRP by subtracting the gain of the dipole.
3. The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
4. Absolute Level = Substituted Level - Cable loss + Antenna Gain
5. Margin = Limit-Absolute Level

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

LTE Band 2

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1850.70	1.4	QPSK	H	85.44	11.73	11.02	2.61	20.14	33.00	12.86
1850.70			V	85.11	12.68	11.02	2.61	21.10	33.00	11.90
1851.50	3		H	85.27	11.81	11.02	2.61	20.22	33.00	12.78
1851.50			V	84.64	12.40	11.02	2.61	20.82	33.00	12.18
1852.50	5		H	87.49	11.88	11.02	2.61	20.29	33.00	12.71
1852.50			V	86.31	13.00	11.02	2.61	21.41	33.00	11.59
1855.00	10		H	86.62	12.76	11.02	2.61	21.17	33.00	11.83
1855.00			V	85.56	13.50	11.02	2.61	21.91	33.00	11.09
1857.50	15		H	85.07	13.32	11.02	2.61	21.73	33.00	11.27
1857.50			V	86.98	12.45	11.02	2.61	20.86	33.00	12.14
1860.00	20		H	85.36	12.25	11.02	2.61	20.66	33.00	12.34
1860.00			V	87.09	13.07	11.02	2.61	21.48	33.00	11.52
1850.70	1.4	16QAM	H	86.08	12.97	11.02	2.61	21.38	33.00	11.62
1850.70			V	86.49	13.21	11.02	2.61	21.62	33.00	11.38
1851.50	3		H	86.84	11.66	11.02	2.61	20.07	33.00	12.93
1851.50			V	86.93	13.25	11.02	2.61	21.67	33.00	11.33
1852.50	5		H	87.41	12.76	11.02	2.61	21.17	33.00	11.83
1852.50			V	86.79	13.03	11.02	2.61	21.45	33.00	11.55
1855.00	10		H	86.07	13.17	11.02	2.61	21.58	33.00	11.42
1855.00			V	86.00	12.48	11.02	2.61	20.89	33.00	12.11
1857.50	15		H	87.46	12.51	11.02	2.61	20.92	33.00	12.08
1857.50			V	87.34	13.45	11.02	2.61	21.86	33.00	11.14
1860.00	20		H	86.70	13.32	11.02	2.61	21.73	33.00	11.27
1860.00			V	86.75	12.66	11.02	2.61	21.07	33.00	11.93

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1880.00	1.4	QPSK	H	85.73	12.73	11.35	1.97	22.12	33.00	10.88
1880.00			V	85.04	12.71	11.35	1.97	22.10	33.00	10.90
1880.00	3		H	86.71	11.82	11.35	1.97	21.21	33.00	11.79
1880.00			V	85.84	13.21	11.35	1.97	22.60	33.00	10.40
1880.00	5		H	85.91	13.14	11.35	1.97	22.53	33.00	10.47
1880.00			V	85.78	12.67	11.35	1.97	22.06	33.00	10.94
1880.00	10		H	85.54	13.23	11.35	1.97	22.62	33.00	10.38
1880.00			V	84.23	12.97	11.35	1.97	22.36	33.00	10.64
1880.00	15		H	85.30	12.36	11.35	1.97	21.75	33.00	11.25
1880.00			V	86.91	11.83	11.35	1.97	21.22	33.00	11.78
1880.00	20		H	86.52	13.36	11.35	1.97	22.75	33.00	10.25
1880.00			V	86.91	13.48	11.35	1.97	22.87	33.00	10.13
1880.00	1.4	16QAM	H	85.28	11.69	11.35	1.97	21.07	33.00	11.93
1880.00			V	86.92	12.17	11.35	1.97	21.56	33.00	11.44
1880.00	3		H	87.29	12.86	11.35	1.97	22.25	33.00	10.75
1880.00			V	85.73	12.43	11.35	1.97	21.82	33.00	11.18
1880.00	5		H	85.65	13.33	11.35	1.97	22.72	33.00	10.28
1880.00			V	87.52	12.01	11.35	1.97	21.40	33.00	11.60
1880.00	10		H	86.88	12.77	11.35	1.97	22.16	33.00	10.84
1880.00			V	86.89	12.49	11.35	1.97	21.88	33.00	11.12
1880.00	15		H	87.43	12.85	11.35	1.97	22.23	33.00	10.77
1880.00			V	87.70	12.58	11.35	1.97	21.97	33.00	11.03
1880.00	20		H	87.49	13.07	11.35	1.97	22.46	33.00	10.54
1880.00			V	87.73	13.29	11.35	1.97	22.68	33.00	10.32

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1909.30	1.4	QPSK	H	85.06	12.14	10.97	1.94	21.17	33.00	11.83
1909.30			V	84.70	12.53	10.97	1.94	21.56	33.00	11.44
1908.50	3		H	85.40	12.91	10.97	1.94	21.94	33.00	11.06
1908.50			V	84.27	12.84	10.97	1.94	21.87	33.00	11.13
1907.50	5		H	86.52	12.53	10.97	1.94	21.56	33.00	11.44
1907.50			V	86.50	12.86	10.97	1.94	21.89	33.00	11.11
1905.00	10		H	87.14	12.35	10.97	1.94	21.38	33.00	11.62
1905.00			V	85.12	13.01	10.97	1.94	22.04	33.00	10.96
1902.50	15		H	85.61	11.57	10.97	1.94	20.60	33.00	12.40
1902.50			V	86.06	12.46	10.97	1.94	21.49	33.00	11.51
1900.00	20		H	86.04	12.88	10.97	1.94	21.91	33.00	11.09
1900.00			V	86.63	13.16	10.97	1.94	22.19	33.00	10.81
1909.30	1.4	16QAM	H	86.87	11.78	10.97	1.94	20.81	33.00	12.19
1909.30			V	86.10	12.63	10.97	1.94	21.66	33.00	11.34
1908.50	3		H	86.29	12.87	10.97	1.94	21.90	33.00	11.10
1908.50			V	86.56	13.18	10.97	1.94	22.21	33.00	10.79
1907.50	5		H	86.20	11.87	10.97	1.94	20.90	33.00	12.10
1907.50			V	87.43	12.49	10.97	1.94	21.52	33.00	11.48
1905.00	10		H	86.34	13.19	10.97	1.94	22.22	33.00	10.78
1905.00			V	86.60	12.88	10.97	1.94	21.91	33.00	11.09
1902.50	15		H	86.69	12.23	10.97	1.94	21.26	33.00	11.74
1902.50			V	87.35	12.36	10.97	1.94	21.39	33.00	11.61
1900.00	20		H	86.27	12.22	10.97	1.94	21.25	33.00	11.75
1900.00			V	85.97	12.63	10.97	1.94	21.66	33.00	11.34

LTE Band 4

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1710.70	1.4	QPSK	H	86.51	12.87	11.28	1.85	22.30	30.00	7.70
1710.70			V	84.37	11.96	11.28	1.85	21.40	30.00	8.60
1711.50	3		H	85.77	13.16	11.28	1.85	22.59	30.00	7.41
1711.50			V	84.82	12.05	11.28	1.85	21.48	30.00	8.52
1712.50	5		H	86.78	12.85	11.28	1.85	22.28	30.00	7.72
1712.50			V	86.77	11.97	11.28	1.85	21.40	30.00	8.60
1715.00	10		H	86.08	11.93	11.28	1.85	21.36	30.00	8.64
1715.00			V	85.84	13.18	11.28	1.85	22.61	30.00	7.39
1707.50	15		H	86.37	12.45	11.28	1.85	21.88	30.00	8.12
1707.50			V	86.31	12.33	11.28	1.85	21.76	30.00	8.24
1720.00	20		H	86.00	13.12	11.28	1.85	22.55	30.00	7.45
1720.00			V	85.92	11.60	11.28	1.85	21.04	30.00	8.96
1710.70	1.4	16QAM	H	86.03	12.64	11.28	1.85	22.08	30.00	7.92
1710.70			V	86.19	12.23	11.28	1.85	21.66	30.00	8.34
1711.50	3		H	86.63	11.76	11.28	1.85	21.19	30.00	8.81
1711.50			V	86.19	13.28	11.28	1.85	22.72	30.00	7.28
1712.50	5		H	85.92	13.21	11.28	1.85	22.64	30.00	7.36
1712.50			V	87.54	11.67	11.28	1.85	21.10	30.00	8.90
1715.00	10		H	87.13	12.68	11.28	1.85	22.11	30.00	7.89
1715.00			V	85.82	12.21	11.28	1.85	21.64	30.00	8.36
1707.50	15		H	87.53	11.54	11.28	1.85	20.97	30.00	9.03
1707.50			V	86.72	13.14	11.28	1.85	22.58	30.00	7.42
1720.00	20		H	86.80	11.91	11.28	1.85	21.34	30.00	8.66
1720.00			V	87.64	12.98	11.28	1.85	22.41	30.00	7.59

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1732.50	1.4	QPSK	H	85.29	11.56	11.61	1.89	21.28	30.00	8.72
1732.50			V	84.18	12.49	11.61	1.89	22.20	30.00	7.80
1732.50	3		H	86.95	12.70	11.61	1.89	22.41	30.00	7.59
1732.50			V	84.69	12.94	11.61	1.89	22.65	30.00	7.35
1732.50	5		H	86.63	11.63	11.61	1.89	21.35	30.00	8.65
1732.50			V	85.56	12.96	11.61	1.89	22.68	30.00	7.32
1732.50	10		H	87.22	11.85	11.61	1.89	21.57	30.00	8.43
1732.50			V	85.71	11.50	11.61	1.89	21.22	30.00	8.78
1732.50	15		H	86.56	13.47	11.61	1.89	23.19	30.00	6.81
1732.50			V	85.29	12.53	11.61	1.89	22.25	30.00	7.75
1732.50	20		H	86.66	12.26	11.61	1.89	21.98	30.00	8.02
1732.50			V	85.95	12.71	11.61	1.89	22.43	30.00	7.57
1732.50	1.4	16QAM	H	86.19	11.86	11.61	1.89	21.58	30.00	8.42
1732.50			V	86.37	12.85	11.61	1.89	22.56	30.00	7.44
1732.50	3		H	85.69	12.85	11.61	1.89	22.56	30.00	7.44
1732.50			V	85.47	12.27	11.61	1.89	21.98	30.00	8.02
1732.50	5		H	86.02	13.41	11.61	1.89	23.12	30.00	6.88
1732.50			V	87.53	12.31	11.61	1.89	22.02	30.00	7.98
1732.50	10		H	86.76	12.42	11.61	1.89	22.13	30.00	7.87
1732.50			V	86.34	13.04	11.61	1.89	22.76	30.00	7.24
1732.50	15		H	86.22	12.54	11.61	1.89	22.25	30.00	7.75
1732.50			V	86.44	13.18	11.61	1.89	22.90	30.00	7.10
1732.50	20		H	86.34	13.44	11.61	1.89	23.15	30.00	6.85
1732.50			V	86.13	12.75	11.61	1.89	22.47	30.00	7.53

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1754.30	1.4	QPSK	H	84.98	13.30	11.80	2.17	22.92	30.00	7.08
1754.30			V	85.54	11.69	11.80	2.17	21.31	30.00	8.69
1753.50	3		H	86.60	11.78	11.80	2.17	21.41	30.00	8.59
1753.50			V	85.16	12.87	11.80	2.17	22.50	30.00	7.50
1752.50	5		H	87.52	12.90	11.80	2.17	22.52	30.00	7.48
1752.50			V	86.31	12.20	11.80	2.17	21.83	30.00	8.17
1750.00	10		H	86.32	13.35	11.80	2.17	22.97	30.00	7.03
1750.00			V	84.60	12.88	11.80	2.17	22.51	30.00	7.49
1747.50	15		H	85.97	12.22	11.80	2.17	21.85	30.00	8.15
1747.50			V	85.62	13.11	11.80	2.17	22.73	30.00	7.27
1745.00	20		H	85.92	12.32	11.80	2.17	21.95	30.00	8.05
1745.00			V	85.86	12.72	11.80	2.17	22.34	30.00	7.66
1754.30	1.4	16QAM	H	86.41	13.25	11.80	2.17	22.88	30.00	7.12
1754.30			V	85.92	13.13	11.80	2.17	22.76	30.00	7.24
1753.50	3		H	86.45	13.24	11.80	2.17	22.87	30.00	7.13
1753.50			V	85.72	12.37	11.80	2.17	21.99	30.00	8.01
1752.50	5		H	85.68	11.68	11.80	2.17	21.31	30.00	8.69
1752.50			V	86.25	13.10	11.80	2.17	22.72	30.00	7.28
1750.00	10		H	85.85	13.10	11.80	2.17	22.72	30.00	7.28
1750.00			V	86.13	11.61	11.80	2.17	21.24	30.00	8.76
1747.50	15		H	86.50	11.82	11.80	2.17	21.45	30.00	8.55
1747.50			V	86.20	12.77	11.80	2.17	22.40	30.00	7.60
1745.00	20		H	86.42	13.44	11.80	2.17	23.07	30.00	6.93
1745.00			V	86.05	13.33	11.80	2.17	22.95	30.00	7.05

LTE Band 5

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
824.70	1.4	QPSK	H	86.38	19.19	1.38	0.32	20.25	38.45	18.20
824.70			V	85.79	19.61	1.38	0.32	20.67	38.45	17.78
825.50	3		H	86.32	20.15	1.38	0.32	21.21	38.45	17.24
825.50			V	84.98	20.95	1.38	0.32	22.01	38.45	16.44
826.50	5		H	86.31	19.14	1.38	0.32	20.20	38.45	18.25
826.50			V	86.06	20.54	1.38	0.32	21.61	38.45	16.84
829.00	10		H	86.36	19.82	1.38	0.32	20.88	38.45	17.57
829.00			V	85.37	20.35	1.38	0.32	21.41	38.45	17.04
824.70	1.4	16QAM	H	85.69	19.91	1.38	0.32	20.97	38.45	17.48
824.70			V	86.84	20.98	1.38	0.32	22.04	38.45	16.41
825.50	3		H	86.56	19.83	1.38	0.32	20.89	38.45	17.56
825.50			V	87.20	20.43	1.38	0.32	21.49	38.45	16.96
826.50	5		H	87.13	20.26	1.38	0.32	21.32	38.45	17.13
826.50			V	86.94	20.36	1.38	0.32	21.42	38.45	17.03
829.00	10		H	86.72	19.35	1.38	0.32	20.41	38.45	18.04
829.00			V	87.32	19.94	1.38	0.32	21.00	38.45	17.45

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
836.50	1.4	QPSK	H	85.51	20.44	1.95	0.62	21.77	38.45	16.68
836.50			V	85.06	20.09	1.95	0.62	21.43	38.45	17.02
836.50	3		H	86.69	20.76	1.95	0.62	22.10	38.45	16.35
836.50			V	85.48	19.74	1.95	0.62	21.07	38.45	17.38
836.50	5		H	86.98	20.88	1.95	0.62	22.21	38.45	16.24
836.50			V	86.73	20.12	1.95	0.62	21.45	38.45	17.00
836.50	10		H	86.05	20.95	1.95	0.62	22.28	38.45	16.17
836.50			V	84.37	19.11	1.95	0.62	20.44	38.45	18.01
836.50	1.4	16QAM	H	85.19	19.73	1.95	0.62	21.07	38.45	17.38
836.50			V	86.72	19.33	1.95	0.62	20.66	38.45	17.79
836.50	3		H	85.35	19.36	1.95	0.62	20.69	38.45	17.76
836.50			V	86.93	20.46	1.95	0.62	21.79	38.45	16.66
836.50	5		H	87.10	20.30	1.95	0.62	21.63	38.45	16.82
836.50			V	87.13	20.87	1.95	0.62	22.20	38.45	16.25
836.50	10		H	86.92	19.73	1.95	0.62	21.06	38.45	17.39
836.50			V	85.66	20.67	1.95	0.62	22.00	38.45	16.45

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
848.30	1.4	QPSK	H	86.49	19.81	1.61	0.43	20.98	38.45	17.47
848.30			V	85.26	20.77	1.61	0.43	21.95	38.45	16.50
847.50	3		H	85.22	19.28	1.61	0.43	20.46	38.45	17.99
847.50			V	86.02	19.07	1.61	0.43	20.25	38.45	18.20
846.50	5		H	86.21	19.45	1.61	0.43	20.62	38.45	17.83
846.50			V	87.12	20.50	1.61	0.43	21.67	38.45	16.78
844.00	10		H	86.26	20.87	1.61	0.43	22.04	38.45	16.41
844.00			V	84.33	20.81	1.61	0.43	21.98	38.45	16.47
848.30	1.4	16QAM	H	85.16	20.67	1.61	0.43	21.85	38.45	16.60
848.30			V	85.62	19.04	1.61	0.43	20.21	38.45	18.24
847.50	3		H	86.42	19.43	1.61	0.43	20.60	38.45	17.85
847.50			V	86.16	20.73	1.61	0.43	21.90	38.45	16.55
846.50	5		H	87.07	20.96	1.61	0.43	22.14	38.45	16.31
846.50			V	87.06	20.48	1.61	0.43	21.66	38.45	16.79
844.00	10		H	87.11	19.54	1.61	0.43	20.71	38.45	17.74
844.00			V	86.87	19.88	1.61	0.43	21.05	38.45	17.40

LTE Band 12

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
699.70	1.4	QPSK	H	85.01	19.68	1.37	0.56	20.49	34.77	14.28
699.70			V	84.51	20.85	1.37	0.56	21.66	34.77	13.11
700.50	3		H	85.05	20.89	1.37	0.56	21.70	34.77	13.07
700.50			V	86.10	19.88	1.37	0.56	20.69	34.77	14.08
701.50	5		H	86.74	20.88	1.37	0.56	21.69	34.77	13.08
701.50			V	86.79	20.03	1.37	0.56	20.84	34.77	13.93
704.50	10		H	86.17	19.66	1.37	0.56	20.47	34.77	14.30
704.50			V	84.63	20.31	1.37	0.56	21.12	34.77	13.65
699.70	1.4	16QAM	H	85.25	20.20	1.37	0.56	21.01	34.77	13.76
699.70			V	86.75	20.04	1.37	0.56	20.85	34.77	13.92
700.50	3		H	86.09	20.52	1.37	0.56	21.33	34.77	13.44
700.50			V	87.07	19.14	1.37	0.56	19.95	34.77	14.82
701.50	5		H	86.15	20.22	1.37	0.56	21.03	34.77	13.74
701.50			V	86.60	19.52	1.37	0.56	20.33	34.77	14.44
704.50	10		H	86.29	20.08	1.37	0.56	20.89	34.77	13.88
704.50			V	85.79	21.11	1.37	0.56	21.92	34.77	12.85

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
707.50	1.4	QPSK	H	85.00	19.25	1.91	0.51	20.64	34.77	14.13
707.50			V	86.08	21.04	1.91	0.51	22.43	34.77	12.34
707.50	3		H	86.49	21.07	1.91	0.51	22.46	34.77	12.31
707.50			V	85.64	19.18	1.91	0.51	20.58	34.77	14.19
707.50	5		H	85.90	20.83	1.91	0.51	22.22	34.77	12.55
707.50			V	86.69	21.06	1.91	0.51	22.45	34.77	12.32
707.50	10		H	85.97	20.83	1.91	0.51	22.22	34.77	12.55
707.50			V	86.11	19.90	1.91	0.51	21.30	34.77	13.47
707.50	1.4	16QAM	H	86.02	20.19	1.91	0.51	21.58	34.77	13.19
707.50			V	85.47	20.87	1.91	0.51	22.26	34.77	12.51
707.50	3		H	86.56	20.84	1.91	0.51	22.24	34.77	12.53
707.50			V	86.51	20.77	1.91	0.51	22.16	34.77	12.61
707.50	5		H	85.80	19.51	1.91	0.51	20.90	34.77	13.87
707.50			V	86.43	19.71	1.91	0.51	21.11	34.77	13.66
707.50	10		H	86.20	19.58	1.91	0.51	20.97	34.77	13.80
707.50			V	85.63	20.17	1.91	0.51	21.56	34.77	13.21

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
715.30	1.4	QPSK	H	84.92	20.22	1.47	0.39	21.31	34.77	13.46
715.30			V	85.05	20.55	1.47	0.39	21.64	34.77	13.13
714.50	3		H	86.46	20.32	1.47	0.39	21.41	34.77	13.36
714.50			V	85.35	19.53	1.47	0.39	20.61	34.77	14.16
713.50	5		H	86.62	19.67	1.47	0.39	20.75	34.77	14.02
713.50			V	85.74	20.24	1.47	0.39	21.32	34.77	13.45
711.00	10		H	85.91	19.96	1.47	0.39	21.05	34.77	13.72
711.00			V	84.98	19.86	1.47	0.39	20.94	34.77	13.83
715.30	1.4	16QAM	H	85.99	19.98	1.47	0.39	21.06	34.77	13.71
715.30			V	87.06	19.49	1.47	0.39	20.58	34.77	14.19
714.50	3		H	85.78	20.42	1.47	0.39	21.50	34.77	13.27
714.50			V	86.74	20.21	1.47	0.39	21.29	34.77	13.48
713.50	5		H	86.91	20.90	1.47	0.39	21.98	34.77	12.79
713.50			V	85.87	21.08	1.47	0.39	22.17	34.77	12.60
711.00	10		H	85.55	20.90	1.47	0.39	21.98	34.77	12.79
711.00			V	85.74	19.43	1.47	0.39	20.52	34.77	14.25

LTE Band 13

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
779.50	5	QPSK	H	85.30	20.13	1.34	0.57	20.90	34.77	13.87
779.50			V	85.81	19.40	1.34	0.57	20.17	34.77	14.60
782.00	10		H	85.92	21.02	1.34	0.57	21.79	34.77	12.98
782.00			V	85.15	20.28	1.34	0.57	21.05	34.77	13.72
779.50	5	16QAM	H	86.37	19.98	1.34	0.57	20.75	34.77	14.02
779.50			V	86.95	20.13	1.34	0.57	20.90	34.77	13.87
782.00	10		H	86.77	19.79	1.34	0.57	20.56	34.77	14.21
782.00			V	85.37	19.85	1.34	0.57	20.62	34.77	14.15

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
782.00	5	QPSK	H	86.13	19.18	1.51	0.54	20.15	34.77	14.62
782.00			V	84.69	19.30	1.51	0.54	20.26	34.77	14.51
782.00	10		H	85.92	19.19	1.51	0.54	20.16	34.77	14.61
782.00			V	85.82	19.41	1.51	0.54	20.38	34.77	14.39
782.00	5	16QAM	H	85.76	20.17	1.51	0.54	21.14	34.77	13.63
782.00			V	86.01	20.98	1.51	0.54	21.95	34.77	12.82
782.00	10		H	86.53	19.87	1.51	0.54	20.84	34.77	13.93
782.00			V	86.11	19.33	1.51	0.54	20.30	34.77	14.47

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
784.50	5	QPSK	H	85.84	20.25	1.08	0.37	20.96	34.77	13.81
784.50			V	85.47	19.68	1.08	0.37	20.39	34.77	14.38
782.00	10		H	85.64	19.16	1.08	0.37	19.88	34.77	14.89
782.00			V	85.09	20.76	1.08	0.37	21.47	34.77	13.30
784.50	5	16QAM	H	87.37	19.67	1.08	0.37	20.38	34.77	14.39
784.50			V	85.49	21.12	1.08	0.37	21.83	34.77	12.94
782.00	10		H	85.99	20.50	1.08	0.37	21.21	34.77	13.56
782.00			V	84.91	20.01	1.08	0.37	20.72	34.77	14.05

LTE Band 14

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
790.50	5	QPSK	H	86.23	18.55	1.77	0.57	19.75	44.77	25.02
790.50			V	86.03	19.13	1.77	0.57	20.32	44.77	24.45
793.00	10		H	85.26	19.47	1.77	0.57	20.66	44.77	24.11
793.00			V	84.37	19.16	1.77	0.57	20.35	44.77	24.42
790.50	5	16QAM	H	85.84	18.97	1.77	0.57	20.16	44.77	24.61
790.50			V	86.92	18.75	1.77	0.57	19.95	44.77	24.82
793.00	10		H	85.51	19.16	1.77	0.57	20.35	44.77	24.42
793.00			V	84.37	19.16	1.77	0.57	20.36	44.77	24.41

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
793.00	5	QPSK	H	86.60	18.36	1.25	0.63	18.97	44.77	25.80
793.00			V	84.64	19.30	1.25	0.63	19.92	44.77	24.85
793.00	10		H	85.36	19.77	1.25	0.63	20.39	44.77	24.38
793.00			V	85.38	19.79	1.25	0.63	20.40	44.77	24.37
793.00	5	16QAM	H	87.24	19.34	1.25	0.63	19.95	44.77	24.82
793.00			V	87.28	18.53	1.25	0.63	19.15	44.77	25.62
793.00	10		H	87.00	18.45	1.25	0.63	19.06	44.77	25.71
793.00			V	84.68	18.29	1.25	0.63	18.91	44.77	25.86

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
795.50	5	QPSK	H	85.61	19.25	1.48	0.30	20.43	44.77	24.34
795.50			V	84.22	18.15	1.48	0.30	19.33	44.77	25.44
793.00	10		H	86.35	19.87	1.48	0.30	21.05	44.77	23.72
793.00			V	85.10	18.02	1.48	0.30	19.20	44.77	25.57
795.50	5	16QAM	H	87.22	18.72	1.48	0.30	19.90	44.77	24.87
795.50			V	85.96	18.95	1.48	0.30	20.13	44.77	24.64
793.00	10		H	86.32	18.30	1.48	0.30	19.48	44.77	25.29
793.00			V	86.21	19.00	1.48	0.30	20.18	44.77	24.59

LTE Band 66

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level EIRP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/dBi)	Cable Loss (dB)			
1710.70	1.4	QPSK	H	85.19	12.84	11.38	2.23	21.99	33.00	11.01
1710.70			V	84.56	13.28	11.38	2.23	22.43	33.00	10.57
1711.50	3		H	86.16	12.72	11.38	2.23	21.87	33.00	11.13
1711.50			V	86.10	11.69	11.38	2.23	20.84	33.00	12.16
1712.50	5		H	86.65	11.83	11.38	2.23	20.98	33.00	12.02
1712.70			V	85.93	12.78	11.38	2.23	21.93	33.00	11.07
1715.00	10		H	86.44	12.12	11.38	2.23	21.27	33.00	11.73
1715.00			V	84.41	12.87	11.38	2.23	22.01	33.00	10.99
1717.50	15		H	85.35	12.91	11.38	2.23	22.06	33.00	10.94
1717.50			V	85.48	13.13	11.38	2.23	22.27	33.00	10.73
1720.00	20		H	85.97	12.55	11.38	2.23	21.69	33.00	11.31
1720.00			V	86.09	12.48	11.38	2.23	21.63	33.00	11.37
1710.70	1.4	16QAM	H	86.56	11.72	11.38	2.23	20.87	33.00	12.13
1710.70			V	86.82	13.15	11.38	2.23	22.29	33.00	10.71
1711.50	3		H	86.54	12.05	11.38	2.23	21.19	33.00	11.81
1711.50			V	86.41	11.56	11.38	2.23	20.70	33.00	12.30
1712.50	5		H	85.97	12.31	11.38	2.23	21.45	33.00	11.55
1712.70			V	85.67	11.71	11.38	2.23	20.86	33.00	12.14
1715.00	10		H	85.78	12.31	11.38	2.23	21.46	33.00	11.54
1715.00			V	87.04	12.46	11.38	2.23	21.60	33.00	11.40
1717.50	15		H	87.19	13.29	11.38	2.23	22.44	33.00	10.56
1717.50			V	87.32	12.81	11.38	2.23	21.96	33.00	11.04
1720.00	20		H	87.06	13.20	11.38	2.23	22.34	33.00	10.66
1720.00			V	86.56	11.71	11.38	2.23	20.85	33.00	12.15

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level EIRP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/dBi)	Cable Loss (dB)			
1745.00	1.4	QPSK	H	85.57	12.93	11.85	2.26	22.52	33.00	10.48
1745.00			V	84.91	12.39	11.85	2.26	21.98	33.00	11.02
1745.00	3		H	86.61	12.66	11.85	2.26	22.25	33.00	10.75
1745.00			V	84.23	12.34	11.85	2.26	21.93	33.00	11.07
1745.00	5		H	86.10	12.32	11.85	2.26	21.91	33.00	11.09
1745.00			V	86.52	13.17	11.85	2.26	22.76	33.00	10.24
1745.00	10		H	86.12	12.08	11.85	2.26	21.67	33.00	11.33
1745.00			V	85.17	13.21	11.85	2.26	22.81	33.00	10.19
1745.00	15		H	86.34	12.26	11.85	2.26	21.85	33.00	11.15
1745.00			V	85.87	13.19	11.85	2.26	22.79	33.00	10.21
1745.00	20		H	86.28	12.14	11.85	2.26	21.73	33.00	11.27
1745.00			V	85.94	11.66	11.85	2.26	21.25	33.00	11.75
1745.00	1.4	16QAM	H	85.99	12.93	11.85	2.26	22.52	33.00	10.48
1745.00			V	86.17	12.45	11.85	2.26	22.04	33.00	10.96
1745.00	3		H	85.49	12.88	11.85	2.26	22.48	33.00	10.52
1745.00			V	86.52	12.26	11.85	2.26	21.85	33.00	11.15
1745.00	5		H	85.87	12.41	11.85	2.26	22.01	33.00	10.99
1745.00			V	87.30	11.81	11.85	2.26	21.40	33.00	11.60
1745.00	10		H	87.04	12.06	11.85	2.26	21.65	33.00	11.35
1745.00			V	86.09	12.67	11.85	2.26	22.26	33.00	10.74
1745.00	15		H	85.90	12.40	11.85	2.26	21.99	33.00	11.01
1745.00			V	86.93	11.81	11.85	2.26	21.40	33.00	11.60
1745.00	20		H	85.86	12.54	11.85	2.26	22.13	33.00	10.87
1745.00			V	86.10	11.58	11.85	2.26	21.17	33.00	11.83

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level EIRP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/dBi)	Cable Loss (dB)			
1779.30	1.4	QPSK	H	85.39	13.19	11.73	2.31	22.60	33.00	10.40
1779.30			V	85.31	13.44	11.73	2.31	22.85	33.00	10.15
1778.50	3		H	85.74	12.06	11.73	2.31	21.47	33.00	11.53
1778.50			V	85.78	12.60	11.73	2.31	22.01	33.00	10.99
1777.50	5		H	87.30	12.04	11.73	2.31	21.45	33.00	11.55
1777.50			V	86.00	13.34	11.73	2.31	22.75	33.00	10.25
1775.00	10		H	86.55	12.47	11.73	2.31	21.88	33.00	11.12
1775.00			V	85.28	12.45	11.73	2.31	21.87	33.00	11.13
1772.50	15		H	85.42	11.75	11.73	2.31	21.16	33.00	11.84
1772.50			V	86.58	12.04	11.73	2.31	21.45	33.00	11.55
1770.00	20		H	85.72	13.06	11.73	2.31	22.48	33.00	10.52
1770.00			V	86.46	12.56	11.73	2.31	21.98	33.00	11.02
1779.30	1.4	16QAM	H	87.24	11.67	11.73	2.31	21.08	33.00	11.92
1779.30			V	86.42	13.14	11.73	2.31	22.56	33.00	10.44
1778.50	3		H	85.93	12.23	11.73	2.31	21.65	33.00	11.35
1778.50			V	86.01	11.72	11.73	2.31	21.13	33.00	11.87
1777.50	5		H	86.36	13.15	11.73	2.31	22.56	33.00	10.44
1777.50			V	86.03	11.74	11.73	2.31	21.15	33.00	11.85
1775.00	10		H	85.61	12.74	11.73	2.31	22.15	33.00	10.85
1775.00			V	85.73	11.63	11.73	2.31	21.04	33.00	11.96
1772.50	15		H	86.73	11.99	11.73	2.31	21.40	33.00	11.60
1772.50			V	87.58	11.64	11.73	2.31	21.06	33.00	11.94
1770.00	20		H	86.41	12.08	11.73	2.31	21.49	33.00	11.51
1770.00			V	86.45	12.90	11.73	2.31	22.31	33.00	10.69

LTE Band 71

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/d Bi)	Cable Loss (dB)			
665.50	5	QPSK	H	84.81	20.59	1.52	0.66	21.46	34.77	13.31
665.50			V	84.83	19.26	1.52	0.66	20.13	34.77	14.64
668.00	10		H	85.50	19.85	1.52	0.66	20.72	34.77	14.05
668.00			V	85.90	19.97	1.52	0.66	20.84	34.77	13.93
670.50	15		H	85.94	20.87	1.52	0.66	21.74	34.77	13.03
670.50			V	86.43	19.67	1.52	0.66	20.54	34.77	14.23
673.00	20		H	85.69	20.99	1.52	0.66	21.86	34.77	12.91
673.00			V	85.08	19.87	1.52	0.66	20.74	34.77	14.03
665.50	5	16QAM	H	85.28	20.27	1.52	0.66	21.14	34.77	13.63
665.50			V	85.85	19.20	1.52	0.66	20.07	34.77	14.70
668.00	10		H	85.49	19.54	1.52	0.66	20.41	34.77	14.36
668.00			V	86.09	20.20	1.52	0.66	21.07	34.77	13.70
670.50	15		H	85.44	20.15	1.52	0.66	21.02	34.77	13.75
670.50			V	86.14	20.74	1.52	0.66	21.61	34.77	13.16
673.00	20		H	86.17	19.75	1.52	0.66	20.62	34.77	14.15
673.00			V	85.50	19.84	1.52	0.66	20.71	34.77	14.06

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/d Bi)	Cable Loss (dB)			
680.50	5	QPSK	H	85.90	19.27	1.48	0.52	20.23	34.77	14.54
680.50			V	85.55	19.54	1.48	0.52	20.50	34.77	14.27
680.50	10		H	85.12	20.94	1.48	0.52	21.90	34.77	12.87
680.50			V	85.26	19.19	1.48	0.52	20.15	34.77	14.62
680.50	15		H	86.49	20.58	1.48	0.52	21.54	34.77	13.23
680.50			V	86.06	19.65	1.48	0.52	20.61	34.77	14.16
680.50	20		H	85.99	19.55	1.48	0.52	20.50	34.77	14.27
680.50			V	85.22	20.98	1.48	0.52	21.93	34.77	12.84
680.50	5	16QAM	H	85.38	20.99	1.48	0.52	21.94	34.77	12.83
680.50			V	85.58	19.28	1.48	0.52	20.24	34.77	14.53
680.50	10		H	86.59	20.13	1.48	0.52	21.09	34.77	13.68
680.50			V	86.24	19.57	1.48	0.52	20.53	34.77	14.24
680.50	15		H	85.42	19.19	1.48	0.52	20.15	34.77	14.62
680.50			V	86.69	20.91	1.48	0.52	21.87	34.77	12.90
680.50	20		H	87.09	21.01	1.48	0.52	21.97	34.77	12.80
680.50			V	87.37	20.18	1.48	0.52	21.14	34.77	13.63

Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna G ain (dBd/d Bi)	Cable Loss (dB)			
695.50	5	QPSK	H	86.06	20.49	1.24	0.36	21.37	34.77	13.40
695.50			V	85.09	20.23	1.24	0.36	21.11	34.77	13.66
693.00	10		H	85.63	19.15	1.24	0.36	20.03	34.77	14.74
693.00			V	84.18	20.66	1.24	0.36	21.54	34.77	13.23
691.50	15		H	87.09	19.52	1.24	0.36	20.40	34.77	14.37
691.50			V	85.72	20.81	1.24	0.36	21.69	34.77	13.08
688.00	20		H	86.85	20.35	1.24	0.36	21.24	34.77	13.53
688.00			V	84.69	19.41	1.24	0.36	20.30	34.77	14.47
695.50	5	16QAM	H	85.51	20.60	1.24	0.36	21.49	34.77	13.28
695.50			V	87.10	19.15	1.24	0.36	20.03	34.77	14.74
693.00	10		H	86.89	20.32	1.24	0.36	21.20	34.77	13.57
693.00			V	87.18	20.53	1.24	0.36	21.41	34.77	13.36
691.50	15		H	87.11	19.71	1.24	0.36	20.60	34.77	14.17
691.50			V	86.76	20.46	1.24	0.36	21.34	34.77	13.43
688.00	20		H	87.02	19.24	1.24	0.36	20.12	34.77	14.65
688.00			V	86.51	20.05	1.24	0.36	20.93	34.77	13.84

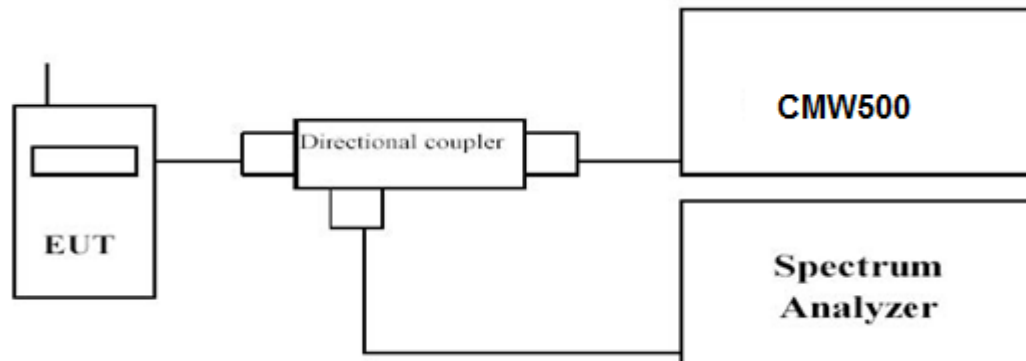
NOTE: We measured all modes and only recorded the worst case.

4.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

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

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

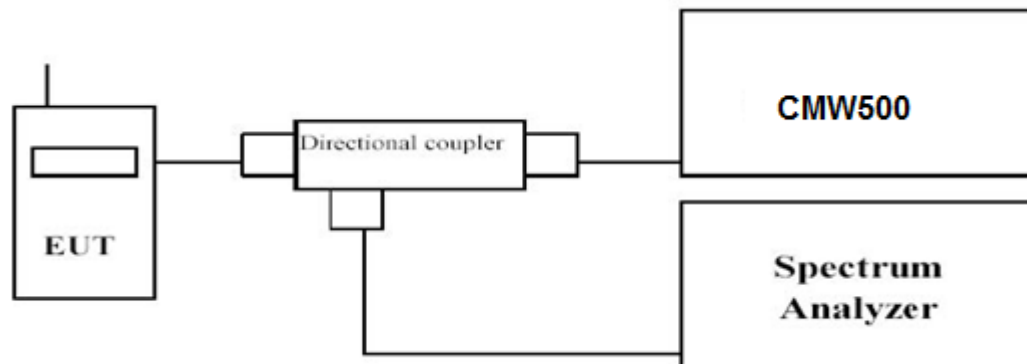
- 1.For E-UTRA Band 2, please refer to Appendix Band 2: Section B;
 - 2.For E-UTRA Band 4, please refer to Appendix Band 4: Section B;
 - 3.For E-UTRA Band 5, please refer to Appendix Band 5: Section B;
 - 4.For E-UTRA Band 12, please refer to Appendix Band 12: Section B;
 - 5.For E-UTRA Band 13, please refer to Appendix Band 13: Section B;
 - 6.For E-UTRA Band 14, please refer to Appendix Band 14: Section B;
 - 7.For E-UTRA Band 66, please refer to Appendix Band 66: Section B;
 - 8.For E-UTRA Band 71, please refer to Appendix Band 71: Section B;
- NOTE:We measured all modes and only recorded the worst case.

4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

FCC \$2.1049, \$22.917, \$22.905, \$24.238, \$27.53 and \$90.209

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

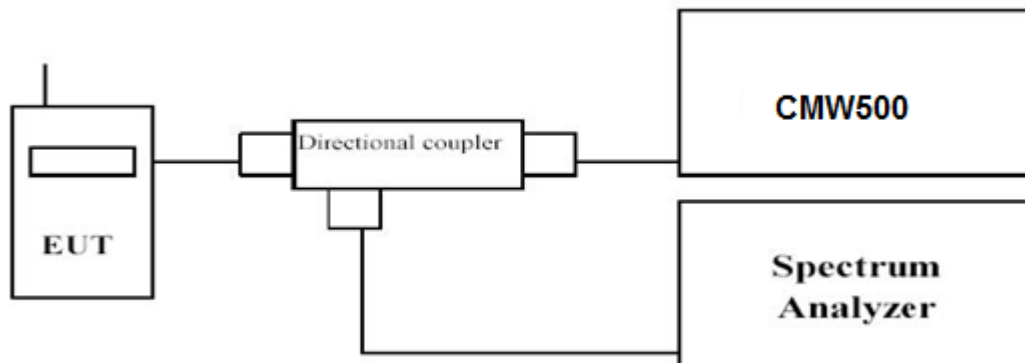
- 1.For E-UTRA Band 2, please refer to Appendix Band 2: Section C;
 - 2.For E-UTRA Band 4, please refer to Appendix Band 4: Section C;
 - 3.For E-UTRA Band 5, please refer to Appendix Band 5: Section C;
 - 4.For E-UTRA Band 12, please refer to Appendix Band 12: Section C;
 - 5.For E-UTRA Band 13, please refer to Appendix Band 13: Section C;
 - 6.For E-UTRA Band 14, please refer to Appendix Band 14: Section C;
 - 7.For E-UTRA Band 66, please refer to Appendix Band 66: Section C;
 - 8.For E-UTRA Band 71, please refer to Appendix Band 71: Section C;
- NOTE:We measured all modes and only recorded the worst case.

4.4 Band Edge compliance

LIMIT

FCC § 2.1053, §22.917, § 24.238 and § 27.53& §90.691.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71

- 1.For E-UTRA Band 2, please refer to Appendix Band 2: Section D;
- 2.For E-UTRA Band 4, please refer to Appendix Band 4: Section D;
- 3.For E-UTRA Band 5, please refer to Appendix Band 5: Section D;
- 4.For E-UTRA Band 12, please refer to Appendix Band 12: Section D;
- 5.For E-UTRA Band 13, please refer to Appendix Band 13: Section D;
- 6.For E-UTRA Band 14, please refer to Appendix Band 14: Section D;
- 7.For E-UTRA Band 66, please refer to Appendix Band 66: Section D;
- 8.For E-UTRA Band 71, please refer to Appendix Band 71: Section D;

NOTE:We measured all modes and only recorded the worst case.

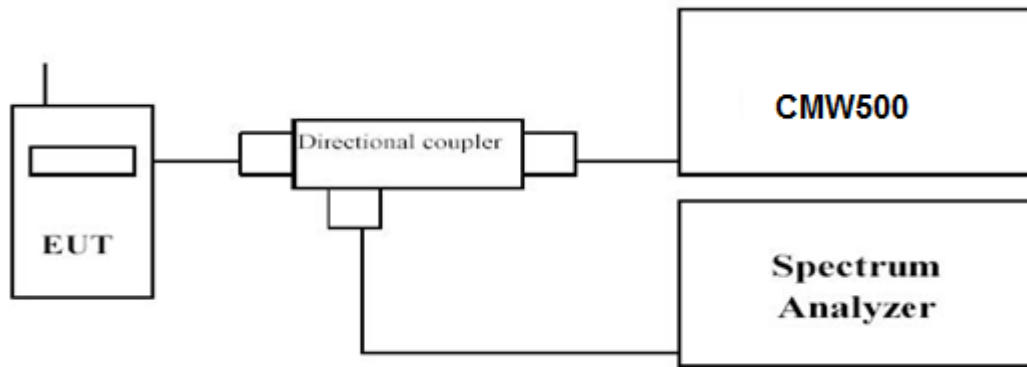
4.5 Spurious Emission

LIMIT

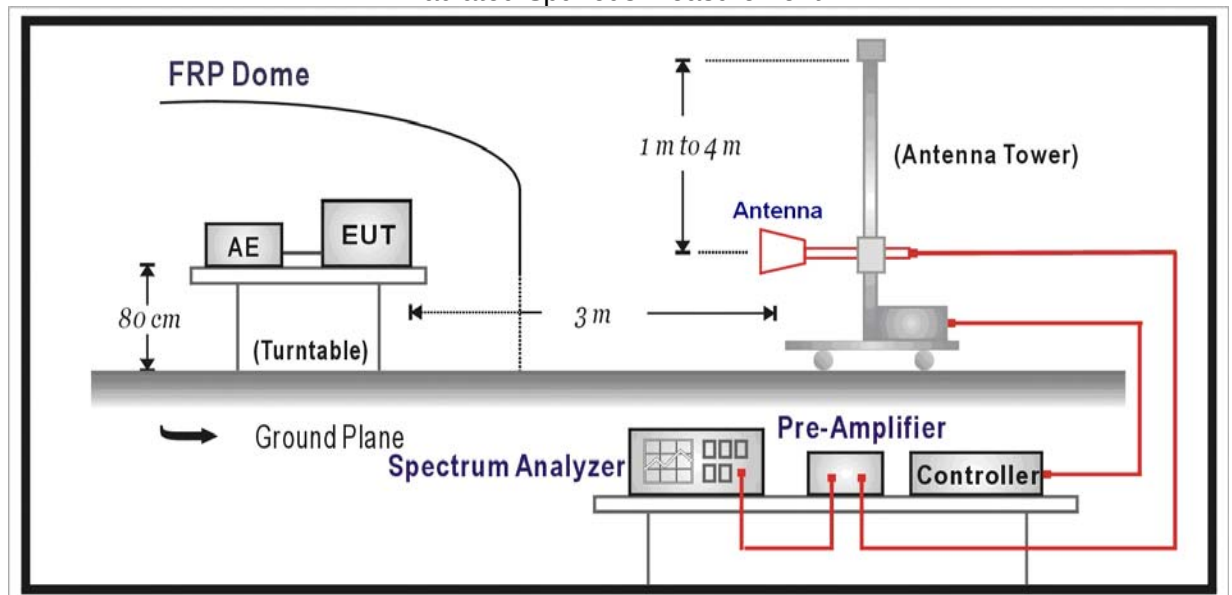
FCC § 2.1053, §22.917, § 24.238 and § 27.53&§90.691.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603-E

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Coupler.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.
- Please refer to following tables for test antenna conducted emissions.

Radiated Spurious Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- r. Test site anechoic chamber refer to ANSI C63.4:2014.

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

Conducted Measurement:

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

- 1.For E-UTRA Band 2, please refer to Appendix Band 2: Section E;
 - 2.For E-UTRA Band 4, please refer to Appendix Band 4: Section E;
 - 3.For E-UTRA Band 5, please refer to Appendix Band 5: Section E;
 - 4.For E-UTRA Band 12, please refer to Appendix Band 12: Section E;
 - 5.For E-UTRA Band 13, please refer to Appendix Band 13: Section E;
 - 6.For E-UTRA Band 14, please refer to Appendix Band 14: Section E;
 - 7.For E-UTRA Band 66, please refer to Appendix Band 66: Section E;
 - 8.For E-UTRA Band 71, please refer to Appendix Band 71: Section E;
- NOTE:We measured all modes and only recorded the worst case.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE FDD Band 2	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 4	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 5	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 12	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 13	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 14	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 66	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto
LTE FDD Band 71	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26	1 MHz	3 MHz	Auto

Remark:

1. Test results including cable loss;
2. We measured all modes and only recorded the worst case.

Radiated Measurement:

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

For Less than 1 GHz:*LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.50	-45.69	3.72	3.00	8.51	-40.90	-13.00	-27.90	H
237.58	-46.11	4.18	3.00	6.98	-43.31	-13.00	-30.31	H
557.72	-41.90	3.90	3.00	8.55	-37.25	-13.00	-24.25	V
907.05	-43.44	4.24	3.00	6.87	-40.81	-13.00	-27.81	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.09	-45.91	3.79	3.00	8.49	-41.21	-13.00	-28.21	H
241.21	-46.79	4.11	3.00	6.98	-43.91	-13.00	-30.91	H
555.96	-42.71	3.82	3.00	8.57	-37.97	-13.00	-24.97	V
898.99	-44.47	4.11	3.00	6.88	-41.70	-13.00	-28.70	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.33	-47.62	3.69	3.00	8.43	-42.87	-13.00	-29.87	H
240.80	-45.82	4.32	3.00	6.93	-43.21	-13.00	-30.21	H
553.67	-44.51	3.73	3.00	8.49	-39.75	-13.00	-26.75	V
899.71	-45.35	4.34	3.00	6.84	-42.85	-13.00	-29.85	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.68	-45.68	3.90	3.00	8.61	-40.96	-13.00	-27.96	H
237.92	-46.04	4.25	3.00	7.15	-43.14	-13.00	-30.14	H
560.59	-41.76	3.81	3.00	8.71	-36.87	-13.00	-23.87	V
903.57	-43.51	4.14	3.00	6.94	-40.71	-13.00	-27.71	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.85	-46.13	3.90	3.00	8.38	-41.66	-13.00	-28.66	H
235.77	-46.47	4.37	3.00	6.96	-43.88	-13.00	-30.88	H
558.15	-42.61	3.95	3.00	8.45	-38.11	-13.00	-25.11	V
907.03	-44.53	4.13	3.00	6.94	-41.72	-13.00	-28.72	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
148.79	-47.68	3.88	3.00	8.56	-43.00	-13.00	-30.00	H
233.80	-45.86	4.36	3.00	7.00	-43.22	-13.00	-30.22	H
556.75	-44.55	3.74	3.00	8.54	-39.75	-13.00	-26.75	V
901.66	-45.05	4.32	3.00	7.06	-42.30	-13.00	-29.30	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
156.09	-45.73	3.73	3.00	8.49	-40.97	-13.00	-27.97	H
239.82	-45.76	4.26	3.00	6.91	-43.11	-13.00	-30.11	H
561.28	-41.89	3.98	3.00	8.44	-37.43	-13.00	-24.43	V
899.73	-43.53	4.16	3.00	6.88	-40.81	-13.00	-27.81	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.07	-45.90	4.06	3.00	8.59	-41.38	-13.00	-28.38	H
242.62	-46.51	4.15	3.00	6.81	-43.84	-13.00	-30.84	H
559.55	-42.81	3.78	3.00	8.56	-38.03	-13.00	-25.03	V
899.85	-44.55	4.38	3.00	7.15	-41.77	-13.00	-28.77	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
156.35	-47.44	3.87	3.00	8.54	-42.77	-13.00	-29.77	H
240.85	-45.64	4.13	3.00	7.17	-42.60	-13.00	-29.60	H
555.47	-44.41	3.76	3.00	8.47	-39.71	-13.00	-26.71	V
898.41	-44.98	4.47	3.00	6.87	-42.59	-13.00	-29.59	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
155.87	-45.88	3.86	3.00	8.65	-41.09	-13.00	-28.09	H
235.52	-45.97	4.15	3.00	6.88	-43.23	-13.00	-30.23	H
551.93	-41.84	3.96	3.00	8.73	-37.07	-13.00	-24.07	V
905.57	-43.55	4.47	3.00	7.08	-40.94	-13.00	-27.94	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.82	-45.89	3.89	3.00	8.75	-41.04	-13.00	-28.04	H
233.95	-46.58	4.25	3.00	6.82	-44.01	-13.00	-31.01	H
561.10	-42.63	3.67	3.00	8.68	-37.62	-13.00	-24.62	V
900.62	-44.38	4.44	3.00	6.86	-41.96	-13.00	-28.96	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
155.92	-47.61	3.94	3.00	8.66	-42.88	-13.00	-29.88	H
239.72	-45.91	4.37	3.00	6.86	-43.42	-13.00	-30.42	H
558.42	-44.32	3.95	3.00	8.58	-39.69	-13.00	-26.69	V
907.04	-44.97	4.35	3.00	6.96	-42.36	-13.00	-29.36	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.23	-45.94	3.83	3.00	8.49	-41.28	-13.00	-28.28	H
242.76	-45.96	4.26	3.00	6.94	-43.28	-13.00	-30.28	H
557.14	-41.85	3.75	3.00	8.55	-37.06	-13.00	-24.06	V
907.01	-43.64	4.47	3.00	7.06	-41.06	-13.00	-28.06	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
155.79	-46.01	3.68	3.00	8.66	-41.02	-13.00	-28.02	H
235.35	-46.52	4.16	3.00	6.98	-43.71	-13.00	-30.71	H
554.08	-42.79	3.86	3.00	8.70	-37.96	-13.00	-24.96	V
903.52	-44.52	4.34	3.00	6.91	-41.94	-13.00	-28.94	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
155.83	-47.65	3.82	3.00	8.39	-43.07	-13.00	-30.07	H
243.20	-45.60	4.24	3.00	6.96	-42.88	-13.00	-29.88	H
560.66	-44.26	3.66	3.00	8.52	-39.40	-13.00	-26.40	V
900.85	-45.32	4.28	3.00	6.86	-42.74	-13.00	-29.74	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.43	-45.95	4.03	3.00	8.55	-41.43	-13.00	-28.43	H
236.81	-45.74	4.40	3.00	7.07	-43.06	-13.00	-30.06	H
555.62	-41.74	3.92	3.00	8.51	-37.16	-13.00	-24.16	V
905.35	-43.52	4.27	3.00	6.79	-41.00	-13.00	-28.00	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.51	-46.08	3.94	3.00	8.59	-41.43	-13.00	-28.43	H
243.40	-46.59	4.34	3.00	6.82	-44.11	-13.00	-31.11	H
556.90	-42.90	4.00	3.00	8.39	-38.52	-13.00	-25.52	V
902.67	-44.72	4.27	3.00	6.98	-42.01	-13.00	-29.01	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.27	-47.58	3.72	3.00	8.64	-42.66	-13.00	-29.66	H
235.53	-45.74	4.27	3.00	6.90	-43.12	-13.00	-30.12	H
556.01	-44.63	3.76	3.00	8.62	-39.78	-13.00	-26.78	V
901.20	-45.07	4.24	3.00	6.98	-42.34	-13.00	-29.34	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.28	-46.04	3.95	3.00	8.45	-41.54	-13.00	-28.54	H
234.92	-46.03	4.22	3.00	7.02	-43.23	-13.00	-30.23	H
558.43	-41.78	3.68	3.00	8.56	-36.90	-13.00	-23.90	V
903.61	-43.65	4.29	3.00	6.78	-41.16	-13.00	-28.16	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.11	-46.01	3.89	3.00	8.71	-41.19	-13.00	-28.19	H
240.54	-46.54	4.43	3.00	7.15	-43.83	-13.00	-30.83	H
552.37	-42.86	3.98	3.00	8.51	-38.33	-13.00	-25.33	V
901.11	-44.77	4.40	3.00	7.02	-42.15	-13.00	-29.15	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.71	-47.65	3.74	3.00	8.50	-42.89	-13.00	-29.89	H
239.07	-45.76	4.28	3.00	6.89	-43.15	-13.00	-30.15	H
558.73	-44.38	3.75	3.00	8.71	-39.42	-13.00	-26.42	V
901.62	-45.10	4.48	3.00	6.88	-42.70	-13.00	-29.70	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.24	-45.68	3.73	3.00	8.60	-40.81	-13.00	-27.81	H
237.43	-45.80	4.38	3.00	6.99	-43.20	-13.00	-30.20	H
553.14	-41.97	4.03	3.00	8.37	-37.63	-13.00	-24.63	V
899.53	-43.62	4.31	3.00	7.04	-40.88	-13.00	-27.88	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
148.27	-45.77	3.88	3.00	8.59	-41.06	-13.00	-28.06	H
242.90	-46.79	4.47	3.00	7.03	-44.23	-13.00	-31.23	H
558.86	-42.62	3.80	3.00	8.71	-37.71	-13.00	-24.71	V
903.03	-44.54	4.28	3.00	6.81	-42.01	-13.00	-29.01	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.53	-47.55	3.85	3.00	8.45	-42.96	-13.00	-29.96	H
234.94	-45.70	4.30	3.00	7.11	-42.89	-13.00	-29.89	H
556.90	-44.60	3.69	3.00	8.51	-39.78	-13.00	-26.78	V
904.61	-45.24	4.26	3.00	7.13	-42.36	-13.00	-29.36	V

LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
148.27	-45.89	3.67	3.00	8.75	-40.81	-13.00	-27.81	H
241.44	-45.74	4.42	3.00	6.80	-43.35	-13.00	-30.35	H
556.78	-41.75	3.94	3.00	8.36	-37.33	-13.00	-24.33	V
900.30	-43.46	4.12	3.00	6.81	-40.77	-13.00	-27.77	V

LTE FDD Band 13_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.35	-45.97	3.68	3.00	8.48	-41.17	-13.00	-28.17	H
239.87	-46.59	4.34	3.00	7.03	-43.91	-13.00	-30.91	H
553.33	-42.70	3.87	3.00	8.51	-38.06	-13.00	-25.06	V
901.49	-44.65	4.12	3.00	7.12	-41.65	-13.00	-28.65	V

LTE FDD Band 14_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
152.17	-45.71	3.69	3.00	8.65	-40.74	-13.00	-27.74	H
235.00	-46.11	4.26	3.00	7.15	-43.22	-13.00	-30.22	H
559.50	-42.02	3.74	3.00	8.64	-37.12	-13.00	-24.12	V
901.59	-43.55	4.17	3.00	7.08	-40.63	-13.00	-27.63	V

LTE FDD Band 14_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
152.74	-45.93	3.73	3.00	8.51	-41.15	-13.00	-28.15	H
234.33	-45.98	4.18	3.00	6.85	-43.30	-13.00	-30.30	H
552.25	-41.68	3.89	3.00	8.52	-37.05	-13.00	-24.05	V
900.34	-43.72	4.45	3.00	7.03	-41.14	-13.00	-28.14	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.87	-45.67	3.95	3.00	8.66	-40.96	-13.00	-27.96	H
233.75	-45.94	4.15	3.00	7.10	-42.99	-13.00	-29.99	H
556.27	-41.79	3.72	3.00	8.69	-36.82	-13.00	-23.82	V
905.38	-43.40	4.10	3.00	6.81	-40.69	-13.00	-27.69	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
151.11	-45.83	3.76	3.00	8.68	-40.91	-13.00	-27.91	H
238.59	-46.59	4.20	3.00	7.05	-43.74	-13.00	-30.74	H
553.10	-42.87	4.03	3.00	8.48	-38.42	-13.00	-25.42	V
905.31	-44.75	4.17	3.00	7.01	-41.91	-13.00	-28.91	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.64	-47.40	3.77	3.00	8.65	-42.52	-13.00	-29.52	H
235.63	-45.59	4.18	3.00	7.02	-42.75	-13.00	-29.75	H
557.44	-44.38	3.89	3.00	8.65	-39.62	-13.00	-26.62	V
903.20	-45.26	4.09	3.00	7.12	-42.23	-13.00	-29.23	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.59	-45.95	3.77	3.00	8.53	-41.20	-13.00	-28.20	H
237.31	-46.02	4.41	3.00	7.00	-43.44	-13.00	-30.44	H
554.03	-41.80	3.69	3.00	8.73	-36.75	-13.00	-23.75	V
899.71	-43.41	4.35	3.00	6.85	-40.91	-13.00	-27.91	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
152.14	-45.81	3.91	3.00	8.51	-41.21	-13.00	-28.21	H
237.51	-46.67	4.15	3.00	6.91	-43.91	-13.00	-30.91	H
554.79	-42.68	3.81	3.00	8.52	-37.97	-13.00	-24.97	V
903.13	-44.55	4.29	3.00	7.11	-41.73	-13.00	-28.73	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.66	-47.60	3.78	3.00	8.49	-42.89	-13.00	-29.89	H
233.99	-45.74	4.12	3.00	7.10	-42.75	-13.00	-29.75	H
558.93	-44.46	3.83	3.00	8.74	-39.55	-13.00	-26.55	V
903.55	-45.05	4.20	3.00	6.87	-42.38	-13.00	-29.38	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.86	-45.97	3.95	3.00	8.54	-41.38	-13.00	-28.38	H
234.90	-45.85	4.47	3.00	6.83	-43.49	-13.00	-30.49	H
555.07	-41.89	3.73	3.00	8.59	-37.03	-13.00	-24.03	V
904.65	-43.70	4.27	3.00	7.10	-40.87	-13.00	-27.87	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.19	-46.04	3.79	3.00	8.64	-41.20	-13.00	-28.20	H
243.13	-46.61	4.10	3.00	7.12	-43.60	-13.00	-30.60	H
553.89	-42.54	3.68	3.00	8.54	-37.68	-13.00	-24.68	V
898.05	-44.59	4.16	3.00	7.14	-41.61	-13.00	-28.61	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.99	-47.52	3.78	3.00	8.40	-42.91	-13.00	-29.91	H
241.61	-45.84	4.38	3.00	7.09	-43.13	-13.00	-30.13	H
552.71	-44.47	3.80	3.00	8.58	-39.69	-13.00	-26.69	V
906.25	-45.06	4.26	3.00	6.82	-42.50	-13.00	-29.50	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
149.44	-46.01	3.73	3.00	8.68	-41.06	-13.00	-28.06	H
236.85	-45.77	4.36	3.00	6.88	-43.26	-13.00	-30.26	H
557.57	-41.74	3.72	3.00	8.49	-36.97	-13.00	-23.97	V
903.04	-43.60	4.43	3.00	6.97	-41.06	-13.00	-28.06	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.97	-45.91	3.70	3.00	8.64	-40.97	-13.00	-27.97	H
237.11	-46.48	4.38	3.00	6.91	-43.95	-13.00	-30.95	H
556.60	-42.64	3.80	3.00	8.36	-38.08	-13.00	-25.08	V
898.97	-44.41	4.42	3.00	6.95	-41.88	-13.00	-28.88	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.11	-47.73	4.00	3.00	8.70	-43.04	-13.00	-30.04	H
234.24	-45.61	4.41	3.00	6.89	-43.13	-13.00	-30.13	H
552.57	-44.62	3.80	3.00	8.53	-39.89	-13.00	-26.89	V
898.09	-45.10	4.21	3.00	6.84	-42.47	-13.00	-29.47	V

For More than 1 GHZ:*LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3704.80	-42.91	5.26	3.00	9.88	-38.29	-13.00	-25.29	H
5557.20	-48.91	6.11	3.00	11.36	-43.66	-13.00	-30.66	H
3704.80	-46.63	5.26	3.00	9.88	-42.01	-13.00	-29.01	V
5557.20	-51.66	6.11	3.00	11.36	-46.41	-13.00	-33.41	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-43.65	5.32	3.00	10.03	-38.94	-13.00	-25.94	H
5640.00	-47.72	6.19	3.00	11.41	-42.50	-13.00	-29.50	H
3760.00	-47.10	5.32	3.00	10.03	-42.39	-13.00	-29.39	V
5640.00	-51.11	6.19	3.00	11.41	-45.89	-13.00	-32.89	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-42.85	5.36	3.00	9.62	-38.59	-13.00	-25.59	H
5640.00	-46.08	6.24	3.00	11.46	-40.86	-13.00	-27.86	H
3760.00	-46.92	5.36	3.00	9.62	-42.66	-13.00	-29.66	V
5640.00	-51.29	6.24	3.00	11.46	-46.07	-13.00	-33.07	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3704.80	-42.63	5.26	3.00	9.88	-38.01	-13.00	-25.01	H
5557.20	-48.99	6.11	3.00	11.36	-43.74	-13.00	-30.74	H
3704.80	-46.64	5.26	3.00	9.88	-42.02	-13.00	-29.02	V
5557.20	-51.73	6.11	3.00	11.36	-46.48	-13.00	-33.48	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-43.64	5.32	3.00	10.03	-38.93	-13.00	-25.93	H
5640.00	-47.81	6.19	3.00	11.41	-42.59	-13.00	-29.59	H
3760.00	-47.34	5.32	3.00	10.03	-42.63	-13.00	-29.63	V
5640.00	-50.87	6.19	3.00	11.41	-45.65	-13.00	-32.65	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.20	-42.92	5.36	3.00	9.62	-38.66	-13.00	-25.66	H
5722.80	-46.30	6.24	3.00	11.46	-41.08	-13.00	-28.08	H
3815.20	-46.69	5.36	3.00	9.62	-42.43	-13.00	-29.43	V
5722.80	-51.19	6.24	3.00	11.46	-45.97	-13.00	-32.97	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3424.80	-48.24	4.62	3.00	9.81	-43.05	-13.00	-30.05	H
5137.20	-51.84	5.94	3.00	10.86	-46.92	-13.00	-33.92	H
3424.80	-52.67	4.62	3.00	9.81	-47.48	-13.00	-34.48	V
5137.20	-54.77	5.94	3.00	10.86	-49.85	-13.00	-36.85	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.20	-48.77	4.63	3.00	9.84	-43.56	-13.00	-30.56	H
5197.80	-52.45	5.94	3.00	10.86	-47.53	-13.00	-34.53	H
3465.20	-52.91	4.63	3.00	9.84	-47.70	-13.00	-34.70	V
5197.80	-55.31	5.94	3.00	10.86	-50.39	-13.00	-37.39	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3505.20	-52.25	4.65	3.00	9.9	-47.00	-13.00	-34.00	H
5257.80	-53.43	5.95	3.00	10.91	-48.47	-13.00	-35.47	H
3505.20	-54.85	4.65	3.00	9.9	-49.60	-13.00	-36.60	V
5257.80	-55.93	5.95	3.00	10.91	-50.97	-13.00	-37.97	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3424.80	-48.35	4.62	3.00	9.81	-43.16	-13.00	-30.16	H
5137.20	-52.15	5.94	3.00	10.86	-47.23	-13.00	-34.23	H
3424.80	-52.65	4.62	3.00	9.81	-47.46	-13.00	-34.46	V
5137.20	-54.92	5.94	3.00	10.86	-50.00	-13.00	-37.00	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.20	-48.90	4.63	3.00	9.84	-43.69	-13.00	-30.69	H
5197.80	-52.23	5.94	3.00	10.86	-47.31	-13.00	-34.31	H
3465.20	-52.84	4.63	3.00	9.84	-47.63	-13.00	-34.63	V
5197.80	-55.48	5.94	3.00	10.86	-50.56	-13.00	-37.56	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3505.20	-52.18	4.65	3.00	9.9	-46.93	-13.00	-33.93	H
5257.80	-53.52	5.95	3.00	10.91	-48.56	-13.00	-35.56	H
3505.20	-55.08	4.65	3.00	9.9	-49.83	-13.00	-36.83	V
5257.80	-56.04	5.95	3.00	10.91	-51.08	-13.00	-38.08	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1658.00	-40.94	4.74	3.00	10.45	-35.23	-13.00	-22.23	H
2487.00	-46.47	5.65	3.00	12.32	-39.80	-13.00	-26.80	H
1658.00	-44.23	4.74	3.00	10.45	-38.52	-13.00	-25.52	V
2487.00	-49.70	5.65	3.00	12.32	-43.03	-13.00	-30.03	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-39.86	5.98	3.00	11.12	-34.72	-13.00	-21.72	H
2509.50	-46.97	6.45	3.00	12.02	-41.40	-13.00	-28.40	H
1673.00	-43.00	5.98	3.00	11.12	-37.86	-13.00	-24.86	V
2509.50	-47.62	6.45	3.00	12.02	-42.05	-13.00	-29.05	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1688.00	-41.11	5.95	3.00	9.98	-37.08	-13.00	-24.08	H
2532.00	-46.82	6.63	3.00	11.66	-41.79	-13.00	-28.79	H
1688.00	-43.89	5.95	3.00	9.98	-39.86	-13.00	-26.86	V
2532.00	-49.32	6.63	3.00	11.66	-44.29	-13.00	-31.29	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1658.00	-40.66	4.74	3.00	10.45	-34.95	-13.00	-21.95	H
2487.00	-46.68	5.65	3.00	12.32	-40.01	-13.00	-27.01	H
1658.00	-44.22	4.74	3.00	10.45	-38.51	-13.00	-25.51	V
2487.00	-49.85	5.65	3.00	12.32	-43.18	-13.00	-30.18	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-39.87	5.98	3.00	11.12	-34.73	-13.00	-21.73	H
2509.50	-46.85	6.45	3.00	12.02	-41.28	-13.00	-28.28	H
1673.00	-43.02	5.98	3.00	11.12	-37.88	-13.00	-24.88	V
2509.50	-47.78	6.45	3.00	12.02	-42.21	-13.00	-29.21	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1688.00	-41.18	5.95	3.00	9.98	-37.15	-13.00	-24.15	H
2532.00	-46.81	6.63	3.00	11.66	-41.78	-13.00	-28.78	H
1688.00	-43.75	5.95	3.00	9.98	-39.72	-13.00	-26.72	V
2532.00	-49.41	6.63	3.00	11.66	-44.38	-13.00	-31.38	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.00	-41.13	4.73	3.00	10.42	-35.44	-13.00	-22.44	H
2112.00	-47.59	5.64	3.00	12.30	-40.93	-13.00	-27.93	H
1408.00	-43.71	4.73	3.00	10.42	-38.02	-13.00	-25.02	V
2112.00	-50.25	5.64	3.00	12.30	-43.59	-13.00	-30.59	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-39.90	4.75	3.00	10.44	-34.21	-13.00	-21.21	H
2122.50	-44.29	5.66	3.00	12.33	-37.62	-13.00	-24.62	H
1415.00	-43.87	4.75	3.00	10.44	-38.18	-13.00	-25.18	V
2122.50	-47.97	5.66	3.00	12.33	-41.30	-13.00	-28.30	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-39.36	4.77	3.00	10.45	-33.68	-13.00	-20.68	H
2133.00	-44.59	5.69	3.00	12.36	-37.92	-13.00	-24.92	H
1422.00	-44.61	4.77	3.00	10.45	-38.93	-13.00	-25.93	V
2133.00	-50.11	5.69	3.00	12.36	-43.44	-13.00	-30.44	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.00	-41.18	4.73	3.00	10.42	-35.49	-13.00	-22.49	H
2112.00	-47.66	5.64	3.00	12.30	-41.00	-13.00	-28.00	H
1408.00	-43.83	4.73	3.00	10.42	-38.14	-13.00	-25.14	V
2112.00	-50.46	5.64	3.00	12.30	-43.80	-13.00	-30.80	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-39.92	4.75	3.00	10.44	-34.23	-13.00	-21.23	H
2122.50	-44.17	5.66	3.00	12.33	-37.50	-13.00	-24.50	H
1415.00	-44.00	4.75	3.00	10.44	-38.31	-13.00	-25.31	V
2122.50	-47.82	5.66	3.00	12.33	-41.15	-13.00	-28.15	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-39.50	4.77	3.00	10.45	-33.82	-13.00	-20.82	H
2133.00	-44.56	5.69	3.00	12.36	-37.89	-13.00	-24.89	H
1422.00	-44.54	4.77	3.00	10.45	-38.86	-13.00	-25.86	V
2133.00	-50.30	5.69	3.00	12.36	-43.63	-13.00	-30.63	V

LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-42.62	5.26	3.00	9.88	-38.00	-13.00	-25.00	H
2346.0	-48.94	6.11	3.00	11.36	-43.69	-13.00	-30.69	H
1564.0	-46.67	5.26	3.00	9.88	-42.05	-13.00	-29.05	V
2346.0	-51.78	6.11	3.00	11.36	-46.53	-13.00	-33.53	V

LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-43.72	5.32	3.00	10.03	-39.01	-13.00	-26.01	H
2346.0	-47.86	6.19	3.00	11.41	-42.64	-13.00	-29.64	H
1564.0	-47.23	5.32	3.00	10.03	-42.52	-13.00	-29.52	V
2346.0	-51.03	6.19	3.00	11.41	-45.81	-13.00	-32.81	V

LTE FDD Band 13_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-42.76	5.36	3.00	9.62	-38.50	-13.00	-25.50	H
2346.0	-46.23	6.24	3.00	11.46	-41.01	-13.00	-28.01	H
1564.0	-46.91	5.36	3.00	9.62	-42.65	-13.00	-29.65	V
2346.0	-51.55	6.24	3.00	11.46	-46.33	-13.00	-33.33	V

LTE FDD Band 14_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1586.0	-41.18	4.73	3.00	10.42	-35.49	-13.00	-22.49	H
2379.0	-47.87	5.64	3.00	12.30	-41.21	-13.00	-28.21	H
1586.0	-43.73	4.73	3.00	10.42	-38.04	-13.00	-25.04	V
2379.0	-50.16	5.64	3.00	12.30	-43.50	-13.00	-30.50	V

LTE FDD Band 14_Channel Bandwidth 10MHz_16QAM_ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1586.0	-39.96	4.75	3.00	10.44	-34.27	-13.00	-21.27	H
2379.0	-44.11	5.66	3.00	12.33	-37.44	-13.00	-24.44	H
1586.0	-44.13	4.75	3.00	10.44	-38.44	-13.00	-25.44	V
2379.0	-47.93	5.66	3.00	12.33	-41.26	-13.00	-28.26	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-40.08	6.23	3.00	9.35	-36.96	-13.00	-23.96	H
5160.0	-45.28	7.48	3.00	10.72	-42.04	-13.00	-29.04	H
3440.0	-42.59	6.23	3.00	9.35	-39.47	-13.00	-26.47	V
5160.0	-47.30	7.48	3.00	10.72	-44.06	-13.00	-31.06	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-40.09	6.37	3.00	9.45	-37.01	-13.00	-24.01	H
5235.0	-45.25	7.54	3.00	10.81	-41.98	-13.00	-28.98	H
3490.0	-43.83	6.37	3.00	9.45	-40.75	-13.00	-27.75	V
5235.0	-47.60	7.54	3.00	10.81	-44.33	-13.00	-31.33	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540.0	-42.04	6.55	3.00	9.51	-39.08	-13.00	-26.08	H
5310.0	-45.43	7.63	3.00	10.93	-42.13	-13.00	-29.13	H
3540.0	-42.79	6.55	3.00	9.51	-39.83	-13.00	-26.83	V
5310.0	-47.83	7.63	3.00	10.93	-44.53	-13.00	-31.53	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-40.01	6.23	3.00	9.35	-36.89	-13.00	-23.89	H
5160.0	-45.27	7.48	3.00	10.72	-42.03	-13.00	-29.03	H
3440.0	-42.35	6.23	3.00	9.35	-39.23	-13.00	-26.23	V
5160.0	-47.40	7.48	3.00	10.72	-44.16	-13.00	-31.16	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-40.30	6.37	3.00	9.45	-37.22	-13.00	-24.22	H
5235.0	-45.06	7.54	3.00	10.81	-41.79	-13.00	-28.79	H
3490.0	-44.06	6.37	3.00	9.45	-40.98	-13.00	-27.98	V
5235.0	-47.70	7.54	3.00	10.81	-44.43	-13.00	-31.43	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540.0	-42.00	6.55	3.00	9.51	-39.04	-13.00	-26.04	H
5310.0	-45.40	7.63	3.00	10.93	-42.10	-13.00	-29.10	H
3540.0	-42.75	6.55	3.00	9.51	-39.79	-13.00	-26.79	V
5310.0	-47.69	7.63	3.00	10.93	-44.39	-13.00	-31.39	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346.0	-54.86	3.57	3.00	9.11	-49.32	-13.00	-36.32	H
2019.0	-60.54	4.12	3.00	8.76	-55.90	-13.00	-42.90	H
1346.0	-50.10	3.57	3.00	9.11	-44.56	-13.00	-31.56	V
2019.0	-55.92	4.12	3.00	8.76	-51.28	-13.00	-38.28	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.0	-54.12	3.64	3.00	9.35	-48.41	-13.00	-35.41	H
2041.5	-59.04	4.22	3.00	8.79	-54.47	-13.00	-41.47	H
1361.0	-49.14	3.64	3.00	9.35	-43.43	-13.00	-30.43	V
2041.5	-54.25	4.22	3.00	8.79	-49.68	-13.00	-36.68	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376.0	-55.34	3.78	3.00	9.45	-49.67	-13.00	-36.67	H
2064.0	-58.83	4.30	3.00	8.87	-54.26	-13.00	-41.26	H
1376.0	-51.66	3.78	3.00	9.45	-45.99	-13.00	-32.99	V
2064.0	-53.94	4.30	3.00	8.87	-49.37	-13.00	-36.37	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346.0	-55.00	3.57	3.00	9.11	-49.46	-13.00	-36.46	H
2019.0	-60.53	4.12	3.00	8.76	-55.89	-13.00	-42.89	H
1346.0	-49.99	3.57	3.00	9.11	-44.45	-13.00	-31.45	V
2019.0	-55.92	4.12	3.00	8.76	-51.28	-13.00	-38.28	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.0	-54.16	3.64	3.00	9.35	-48.45	-13.00	-35.45	H
2041.5	-59.16	4.22	3.00	8.79	-54.59	-13.00	-41.59	H
1361.0	-49.08	3.64	3.00	9.35	-43.37	-13.00	-30.37	V
2041.5	-54.35	4.22	3.00	8.79	-49.78	-13.00	-36.78	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376.0	-55.35	3.78	3.00	9.45	-49.68	-13.00	-36.68	H
2064.0	-58.85	4.30	3.00	8.87	-54.28	-13.00	-41.28	H
1376.0	-51.62	3.78	3.00	9.45	-45.95	-13.00	-32.95	V
2064.0	-53.71	4.30	3.00	8.87	-49.14	-13.00	-36.14	V

Notes:

1. All channel bandwidth were tested, the report recorded the worst data.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$
3. $ERP = EIRP - 2.15dBi$ as EIRP by subtracting the gain of the dipole.
4. $Margin = EIRP - Limit$
5. We measured all modes and only recorded the worst case.

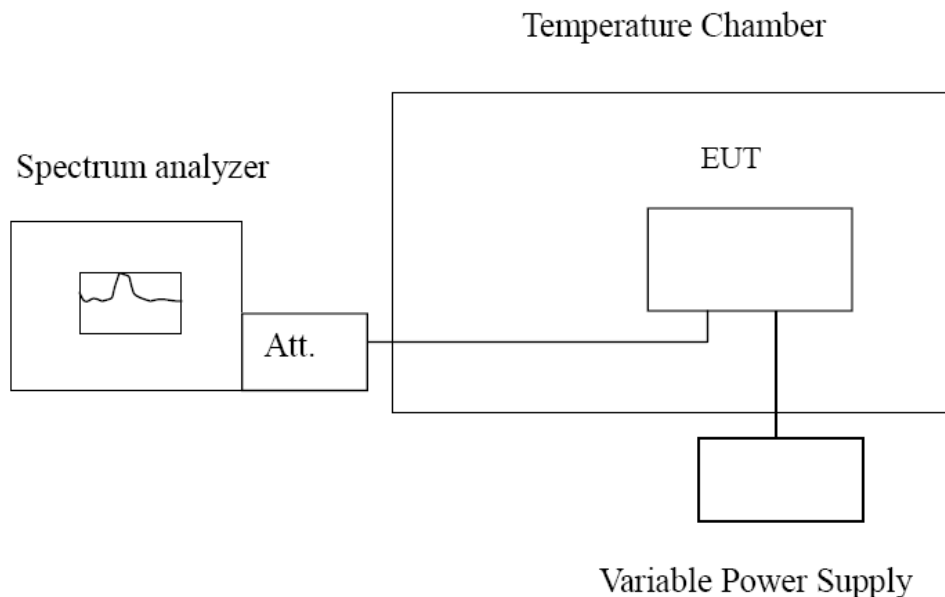
NOTE: All the modes have been tested and recorded worst mode in the report(Version A).

4.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54 & §90.213

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 5, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE FDD Band 66, LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 14, LTE TDD Band 66, LTE FDD Band 71;

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Evan Ouyang	Configurations	LTE

LTE Band 2, QPSK, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 2					
DC Power	Temperature (℃)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	24	0.013	±2.50	PASS
DC 3.30V	20	74	0.039	±2.50	PASS
DC 3.85V	20	81	0.043	±2.50	PASS
DC 3.85V	-30	59	0.031	±2.50	PASS
DC 3.85V	-20	63	0.034	±2.50	PASS
DC 3.85V	-10	39	0.021	±2.50	PASS
DC 3.85V	0	86	0.046	±2.50	PASS
DC 3.85V	10	63	0.034	±2.50	PASS
DC 3.85V	20	5	0.003	±2.50	PASS
DC 3.85V	30	80	0.043	±2.50	PASS
DC 3.85V	40	90	0.048	±2.50	PASS
DC 3.85V	50	21	0.011	±2.50	PASS

LTE Band 2, 16QAM, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 2					
DC Power	Temperature (℃)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	4	0.002	±2.50	PASS
DC 3.30V	20	20	0.011	±2.50	PASS
DC 3.85V	20	62	0.033	±2.50	PASS
DC 3.85V	-30	89	0.047	±2.50	PASS
DC 3.85V	-20	14	0.007	±2.50	PASS
DC 3.85V	-10	67	0.036	±2.50	PASS
DC 3.85V	0	58	0.031	±2.50	PASS
DC 3.85V	10	2	0.001	±2.50	PASS
DC 3.85V	20	36	0.019	±2.50	PASS
DC 3.85V	30	98	0.052	±2.50	PASS
DC 3.85V	40	99	0.053	±2.50	PASS
DC 3.85V	50	51	0.027	±2.50	PASS

LTE Band 4, QPSK, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 4					
DC Power	Temperature (℃)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	92	0.053	±2.50	PASS
DC 3.30V	20	43	0.025	±2.50	PASS
DC 3.85V	20	37	0.021	±2.50	PASS
DC 3.85V	-30	95	0.054	±2.50	PASS
DC 3.85V	-20	22	0.013	±2.50	PASS
DC 3.85V	-10	4	0.002	±2.50	PASS
DC 3.85V	0	87	0.050	±2.50	PASS
DC 3.85V	10	5	0.003	±2.50	PASS
DC 3.85V	20	24	0.014	±2.50	PASS
DC 3.85V	30	30	0.017	±2.50	PASS
DC 3.85V	40	5	0.003	±2.50	PASS
DC 3.85V	50	65	0.037	±2.50	PASS

LTE Band 4, 16QAM, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 4					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	81	0.046	±2.50	PASS
DC 3.30V	20	65	0.037	±2.50	PASS
DC 3.85V	20	7	0.004	±2.50	PASS
DC 3.85V	-30	63	0.036	±2.50	PASS
DC 3.85V	-20	12	0.007	±2.50	PASS
DC 3.85V	-10	95	0.054	±2.50	PASS
DC 3.85V	0	76	0.043	±2.50	PASS
DC 3.85V	10	63	0.036	±2.50	PASS
DC 3.85V	20	79	0.045	±2.50	PASS
DC 3.85V	30	43	0.025	±2.50	PASS
DC 3.85V	40	75	0.043	±2.50	PASS
DC 3.85V	50	68	0.039	±2.50	PASS

LTE Band 5, QPSK, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 5					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	44	0.053	±2.50	PASS
DC 3.30V	20	5	0.006	±2.50	PASS
DC 3.85V	20	94	0.114	±2.50	PASS
DC 3.85V	-30	96	0.116	±2.50	PASS
DC 3.85V	-20	1	0.001	±2.50	PASS
DC 3.85V	-10	48	0.058	±2.50	PASS
DC 3.85V	0	51	0.062	±2.50	PASS
DC 3.85V	10	35	0.042	±2.50	PASS
DC 3.85V	20	50	0.061	±2.50	PASS
DC 3.85V	30	96	0.116	±2.50	PASS
DC 3.85V	40	42	0.051	±2.50	PASS
DC 3.85V	50	22	0.027	±2.50	PASS

LTE Band 5, 16QAM, 1.4MHz bandwidth(worst case of all bandwidths)

LTE FDD Band 5					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	50	0.061	±2.50	PASS
DC 3.30V	20	24	0.029	±2.50	PASS
DC 3.85V	20	44	0.053	±2.50	PASS
DC 3.85V	-30	78	0.095	±2.50	PASS
DC 3.85V	-20	22	0.027	±2.50	PASS
DC 3.85V	-10	56	0.068	±2.50	PASS
DC 3.85V	0	56	0.068	±2.50	PASS
DC 3.85V	10	27	0.033	±2.50	PASS
DC 3.85V	20	69	0.084	±2.50	PASS
DC 3.85V	30	8	0.010	±2.50	PASS
DC 3.85V	40	37	0.045	±2.50	PASS
DC 3.85V	50	58	0.070	±2.50	PASS

LTE Band 12, QPSK, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 12					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	20	0.028	±2.50	PASS
DC 3.30V	20	38	0.054	±2.50	PASS
DC 3.85V	20	47	0.066	±2.50	PASS
DC 3.85V	-30	39	0.055	±2.50	PASS
DC 3.85V	-20	35	0.049	±2.50	PASS
DC 3.85V	-10	67	0.095	±2.50	PASS
DC 3.85V	0	92	0.130	±2.50	PASS
DC 3.85V	10	31	0.044	±2.50	PASS
DC 3.85V	20	98	0.139	±2.50	PASS
DC 3.85V	30	69	0.098	±2.50	PASS
DC 3.85V	40	77	0.109	±2.50	PASS
DC 3.85V	50	39	0.055	±2.50	PASS

LTE Band 12, 16QAM, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 12					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	96	0.136	±2.50	PASS
DC 3.30V	20	52	0.073	±2.50	PASS
DC 3.85V	20	57	0.081	±2.50	PASS
DC 3.85V	-30	55	0.078	±2.50	PASS
DC 3.85V	-20	40	0.057	±2.50	PASS
DC 3.85V	-10	9	0.013	±2.50	PASS
DC 3.85V	0	60	0.085	±2.50	PASS
DC 3.85V	10	7	0.010	±2.50	PASS
DC 3.85V	20	68	0.096	±2.50	PASS
DC 3.85V	30	97	0.137	±2.50	PASS
DC 3.85V	40	98	0.139	±2.50	PASS
DC 3.85V	50	34	0.048	±2.50	PASS

LTE Band 13, 5MHz bandwidth, QPSK (worst case of all bandwidths)

<i>LTE FDD Band 13</i>					
<i>DC Power</i>	<i>Temperature (°C)</i>	<i>Frequency error(Hz)</i>	<i>Frequency error(ppm)</i>	<i>Limit (ppm)</i>	<i>Verdict</i>
DC 4.40V	20	78	0.100	2.50	PASS
DC 3.30V	20	98	0.125	2.50	PASS
DC 3.85V	20	5	0.006	2.50	PASS
DC 3.85V	-30	17	0.022	2.50	PASS
DC 3.85V	-20	67	0.086	2.50	PASS
DC 3.85V	-10	63	0.081	2.50	PASS
DC 3.85V	0	75	0.096	2.50	PASS
DC 3.85V	10	61	0.078	2.50	PASS
DC 3.85V	20	0	0.000	2.50	PASS
DC 3.85V	30	38	0.049	2.50	PASS
DC 3.85V	40	46	0.059	2.50	PASS
DC 3.85V	50	24	0.031	2.50	PASS

LTE Band 13, 5MHz bandwidth, 16QAM (worst case of all bandwidths)

<i>LTE FDD Band 13</i>					
<i>DC Power</i>	<i>Temperature (°C)</i>	<i>Frequency error(Hz)</i>	<i>Frequency error(ppm)</i>	<i>Limit (ppm)</i>	<i>Verdict</i>
DC 4.40V	20	34	0.043	2.50	PASS
DC 3.30V	20	58	0.074	2.50	PASS
DC 3.85V	20	84	0.107	2.50	PASS
DC 3.85V	-30	79	0.101	2.50	PASS
DC 3.85V	-20	23	0.029	2.50	PASS
DC 3.85V	-10	58	0.074	2.50	PASS
DC 3.85V	0	1	0.001	2.50	PASS
DC 3.85V	10	58	0.074	2.50	PASS
DC 3.85V	20	49	0.063	2.50	PASS
DC 3.85V	30	17	0.022	2.50	PASS
DC 3.85V	40	21	0.027	2.50	PASS
DC 3.85V	50	26	0.033	2.50	PASS

LTE Band 14, 5MHz bandwidth, QPSK (worst case of all bandwidths)

<i>LTE FDD Band 14</i>					
<i>DC Power</i>	<i>Temperature (°C)</i>	<i>Frequency error(Hz)</i>	<i>Frequency error(ppm)</i>	<i>Limit (ppm)</i>	<i>Verdict</i>
DC 4.40V	20	19	0.024	2.50	PASS
DC 3.30V	20	37	0.047	2.50	PASS
DC 3.85V	20	29	0.037	2.50	PASS
DC 3.85V	-30	15	0.019	2.50	PASS
DC 3.85V	-20	58	0.073	2.50	PASS
DC 3.85V	-10	55	0.069	2.50	PASS
DC 3.85V	0	51	0.064	2.50	PASS
DC 3.85V	10	30	0.038	2.50	PASS
DC 3.85V	20	56	0.071	2.50	PASS
DC 3.85V	30	3	0.004	2.50	PASS
DC 3.85V	40	93	0.117	2.50	PASS
DC 3.85V	50	78	0.098	2.50	PASS

LTE Band 14, 5MHz bandwidth, 16QAM (worst case of all bandwidths)

LTE FDD Band 14					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	46	0.058	2.50	PASS
DC 3.30V	20	43	0.054	2.50	PASS
DC 3.85V	20	38	0.048	2.50	PASS
DC 3.85V	-30	15	0.019	2.50	PASS
DC 3.85V	-20	20	0.025	2.50	PASS
DC 3.85V	-10	66	0.083	2.50	PASS
DC 3.85V	0	95	0.120	2.50	PASS
DC 3.85V	10	83	0.105	2.50	PASS
DC 3.85V	20	36	0.045	2.50	PASS
DC 3.85V	30	56	0.071	2.50	PASS
DC 3.85V	40	41	0.052	2.50	PASS
DC 3.85V	50	76	0.096	2.50	PASS

LTE Band 66, 1.4MHz bandwidth, QPSK (worst case of all bandwidths)

LTE FDD Band 66					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	77	0.044	2.50	PASS
DC 3.30V	20	70	0.040	2.50	PASS
DC 3.85V	20	62	0.036	2.50	PASS
DC 3.85V	-30	49	0.028	2.50	PASS
DC 3.85V	-20	29	0.017	2.50	PASS
DC 3.85V	-10	41	0.023	2.50	PASS
DC 3.85V	0	65	0.037	2.50	PASS
DC 3.85V	10	46	0.026	2.50	PASS
DC 3.85V	20	82	0.047	2.50	PASS
DC 3.85V	30	66	0.038	2.50	PASS
DC 3.85V	40	81	0.046	2.50	PASS
DC 3.85V	50	62	0.036	2.50	PASS

LTE Band 66, 1.4MHz bandwidth, 16QAM (worst case of all bandwidths)

LTE FDD Band 66					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	33	0.019	2.50	PASS
DC 3.30V	20	14	0.008	2.50	PASS
DC 3.85V	20	31	0.018	2.50	PASS
DC 3.85V	-30	32	0.018	2.50	PASS
DC 3.85V	-20	70	0.040	2.50	PASS
DC 3.85V	-10	62	0.036	2.50	PASS
DC 3.85V	0	50	0.029	2.50	PASS
DC 3.85V	10	69	0.040	2.50	PASS
DC 3.85V	20	60	0.034	2.50	PASS
DC 3.85V	30	54	0.031	2.50	PASS
DC 3.85V	40	94	0.054	2.50	PASS
DC 3.85V	50	72	0.041	2.50	PASS

LTE Band 71, 5MHz bandwidth, QPSK (worst case of all bandwidths)

LTE FDD Band 71					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	71	0.104	2.50	PASS
DC 3.30V	20	46	0.068	2.50	PASS
DC 3.85V	20	45	0.066	2.50	PASS
DC 3.85V	-30	70	0.103	2.50	PASS
DC 3.85V	-20	22	0.032	2.50	PASS
DC 3.85V	-10	16	0.024	2.50	PASS
DC 3.85V	0	0	0.000	2.50	PASS
DC 3.85V	10	83	0.122	2.50	PASS
DC 3.85V	20	34	0.050	2.50	PASS
DC 3.85V	30	42	0.062	2.50	PASS
DC 3.85V	40	37	0.054	2.50	PASS
DC 3.85V	50	11	0.016	2.50	PASS

LTE Band 71, 5MHz bandwidth, 16QAM (worst case of all bandwidths)

LTE FDD Band 71					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 4.40V	20	80	0.118	2.50	PASS
DC 3.30V	20	17	0.025	2.50	PASS
DC 3.85V	20	9	0.013	2.50	PASS
DC 3.85V	-30	53	0.078	2.50	PASS
DC 3.85V	-20	78	0.115	2.50	PASS
DC 3.85V	-10	54	0.079	2.50	PASS
DC 3.85V	0	7	0.010	2.50	PASS
DC 3.85V	10	33	0.048	2.50	PASS
DC 3.85V	20	51	0.075	2.50	PASS
DC 3.85V	30	79	0.116	2.50	PASS
DC 3.85V	40	48	0.071	2.50	PASS
DC 3.85V	50	50	0.073	2.50	PASS

NOTE:We measured all modes and only recorded the worst case.

5 TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: GTS20251018009-1-08.

6 EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: GTS20251018009-1-02.

.....End of Report.....