



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.....: GTS20210805012-1-4

FCC ID..... : 2APYR-LVTR4

Compiled by

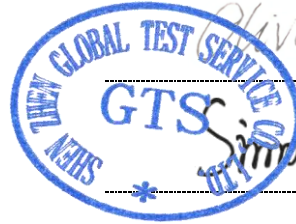
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Date of issue.....: Aug.19, 2021

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: LaView Eagle-Eye Technology Inc.

Address: 17333 Freedom Way, City of Industry, CA, 91748

Test specification

Standard: **FCC CFR Title 47 Part 2, Part 22H, Part 24E,Part 27,Part 90
TIA-603-E March 2016
FCC KDB971168 D01 Power Meas License Digital Systems
v03r01**

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

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Test item description Tracker

Trade Mark: LaView

Manufacturer: LaView Eagle-Eye Technology Inc.

Model/Type reference.....: LVTR4

Listed Models: TK312

Modulation Type: QPSK, 16QAM

Hardware Version: N/A

Software Version: N/A

Rating: DC 3.7V by battery
Recharged by DC 12.0V

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

TEST REPORT

Test Report No. : GTS20210805012-1-4	Aug.19, 2021 Date of issue
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Equipment under Test : Tracker

Model /Type : LVTR4

Listed model : G92, L1030, L1040, L1048, L1049, L1050, L1051, L1052, L1053

Applicant : **LaView Eagle-Eye Technology Inc.**

Address : 17333 Freedom Way, City of Industry, CA, 91748

Manufacturer : **LaView Eagle-Eye Technology Inc.**

Address : 17333 Freedom Way, City of Industry, CA, 91748

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.

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

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

[ANSI C63.26:2015](#):American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

2 GENERAL INFORMATION

2.1 General Remarks

Date of receipt of test sample	:	Aug.01, 2021
Testing commenced on	:	Aug.01, 2021
Testing concluded on	:	Aug.19, 2021

2.2 Product Description

Product Name	Tracker
Trade Mark	LaView
Model/Type reference	LVTR4
List Models	TK312
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different , So no additional models were tested.
Power supply:	DC 3.7V by battery Recharged by DC 12.0V
Sample ID	GTS20210805012-1-1# & GTS20210805012-1-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	40 channels for Bluetooth (DTS)
Channel Spacing	2MHz for Bluetooth (DTS)
Modulation Type	GFSK for Bluetooth (DTS)
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 Channel for 40MHz bandwidth(2422~2452MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM
Antenna Description	FPC Antenna, 0dBi(Max.) for 2.4G Band
2G	
Support Band	GSM850/PCS1900/GPRS850/GPRS1900/EDGE850/EDGE1900
Release Version	R99
GPRS Class	Class 12
EGPRS Class	Class 12
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
Type Of Modulation	GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description	FPC Antenna; 0dBi (max.) For GSM 850; 0dBi (max.) For PCS 1900;
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 13(777 MHz -787MHz) E-UTRA Band 25(1850 MHz -1915MHz) E-UTRA Band 26(814 MHz -824MHz)

	E-UTRA Band 26(824 MHz -849MHz)
LTE Release Version	R9
Type Of Modulation	QPSK/16QAM
Antenna Description	FPC Antenna; 0dBi (max.) For LTE Band 2; 0dBi (max.) For LTE Band 4; 0dBi (max.) For LTE Band 5; 0dBi (max.) For LTE Band 13; 0dBi (max.) For LTE Band 25; 0dBi (max.) For LTE Band 26(814 MHz -824MHz); 0dBi (max.) For LTE Band 26(824 MHz -849MHz);

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 3.7V

2.4 Short description of the Equipment under Test (EUT)

This is a Tracker.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 resulton 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
FLYPOWER	Adapter	PH06S	--	SDOC

Note: The Adapter is only used for auxiliary testing.

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 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 CN1234.

FCC Registered Test Site Number is165725.

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	GTS20210805012-1-1#	Pass
Peak-to-Average Ratio	Part 2.1046 Part 24.232 Part 27.50(d)	GTS20210805012-1-1#	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049	GTS20210805012-1-1#	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 Part 27.53 Part 90.691	GTS20210805012-1-1#	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917(b) Part 24.238 Part 27.53 Part 90.691	GTS20210805012-1-1#	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	GTS20210805012-1-1#	Pass
Frequency stability	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213	GTS20210805012-1-1#	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	2021/07/23	2022/07/22
LISN	R&S	ESH2-Z5	893606/008	2021/07/23	2022/07/22
EMI Test Receiver	R&S	ESPI3	101841-cd	2021/07/23	2022/07/22
EMI Test Receiver	R&S	ESC17	101102	2020/09/20	2021/09/19
Spectrum Analyzer	Agilent	N9020A	MY48010425	2020/09/20	2021/09/19
Spectrum Analyzer	R&S	FSV40	100019	2021/07/23	2022/07/22
Vector Signal generator	Agilent	N5181A	MY49060502	2021/07/23	2022/07/22
Signal generator	Agilent	N5182A	3610AO1069	2020/09/20	2021/09/19
Climate Chamber	ESPEC	EL-10KA	A20120523	2020/09/20	2021/09/19
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2020/11/08	2021/11/07
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2020/10/11	2021/10/10
Bilog Antenna	Schwarzbeck	VULB9163	000976	2021/07/23	2022/07/22
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020/11/08	2021/11/07
Amplifier	Schwarzbeck	BBV 9743	#202	2021/07/23	2022/07/22
Amplifier	Schwarzbeck	BBV9179	9719-025	2021/07/23	2022/07/22
Amplifier	EMCI	EMC051845 B	980355	2021/07/23	2022/07/22
Temperature/Humidity Meter	Gangxing	CTH-608	02	2021/07/23	2022/07/22
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2021/07/23	2022/07/22
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2021/07/23	2022/07/22
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2021/07/23	2022/07/22
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2021/07/23	2022/07/22
Data acquisition card	Agilent	U2531A	TW53323507	2021/07/23	2022/07/22
Power Sensor	Agilent	U2021XA	MY5365004	2021/07/23	2022/07/22
Test Control Unit	Tonscend	JS0806-1	178060067	2021/07/23	2022/07/22
Automated filter bank	Tonscend	JS0806-F	19F8060177	2021/07/23	2022/07/22
Radio Communication Tester	Rohde&Schwarz	CMW500	115406	2021/07/23	2022/07/22
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 50 Watts for LTE Band 26.

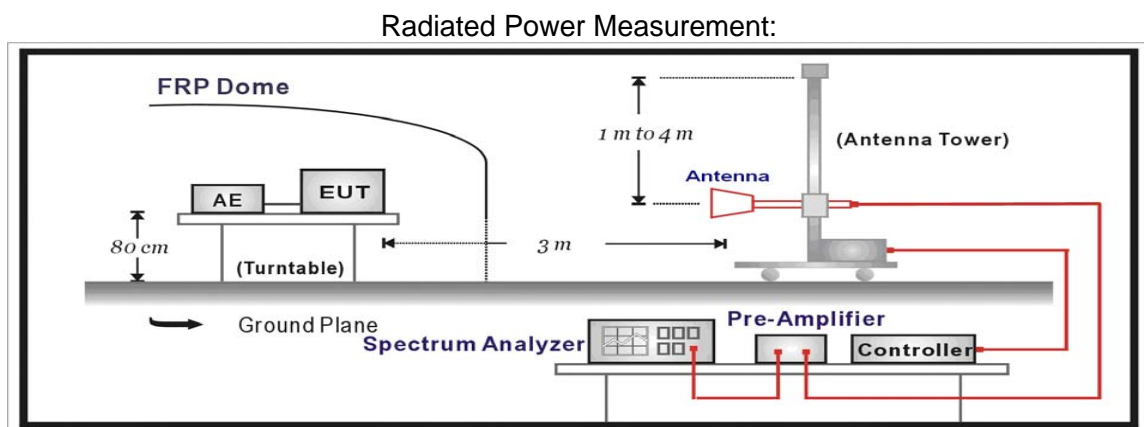
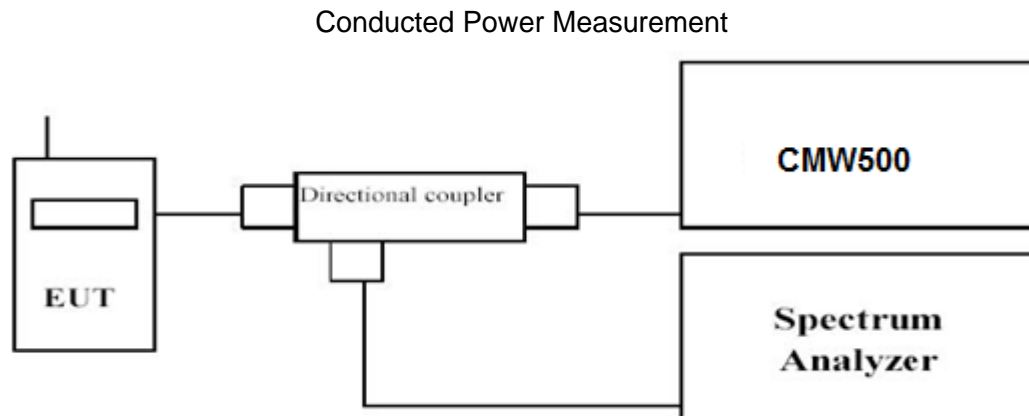
The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, LTE Band 26.

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, LTE Band 25.

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

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

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:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- The output of the test antenna shall be connected to the measuring receiver.
- 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. Test site anechoic chamber refer to ANSI C63.26.

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Oliver Ou	Configurations	LTE

Conducted Measurement:

LTE FDD Band 2				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	1850.70	22.79	21.99
		1880.00	22.68	21.38
		1909.30	23.01	22.27
	1 RB high	1850.70	22.51	22.10
		1880.00	22.70	21.66
		1909.30	22.78	21.70
	50% RB mid	1850.70	22.60	21.81
		1880.00	22.70	22.18
		1909.30	23.04	21.44
	100% RB	1850.70	23.22	21.39
		1880.00	23.13	21.43
		1909.30	23.22	21.74
3 MHz	1 RB low	1851.50	23.49	21.45
		1880.00	23.35	21.74
		1908.50	22.61	21.76
	1 RB high	1851.50	22.63	22.19
		1880.00	22.87	21.90
		1908.50	23.17	22.24
	50% RB mid	1851.50	23.01	21.65
		1880.00	23.27	22.01
		1908.50	23.06	21.93
	100% RB	1851.50	22.14	21.24
		1880.00	21.80	20.39
		1908.50	22.22	20.62
5 MHz	1 RB low	1852.50	22.24	20.85
		1880.00	21.79	21.04

	1 RB high	1907.50	22.36	21.25
		1852.50	22.43	21.26
		1880.00	22.49	20.48
	50% RB mid	1907.50	21.67	21.06
		1852.50	21.67	20.68
		1880.00	22.36	21.10
	100% RB	1907.50	22.09	20.62
		1852.50	21.64	20.89
		1880.00	22.46	21.05
10 MHz	1 RB low	1907.50	21.90	21.12
		1852.50	21.64	20.89
		1880.00	22.46	21.05
	1 RB high	1855.00	21.79	21.23
		1880.00	21.61	20.39
		1905.00	21.87	20.54
	50% RB mid	1855.00	21.68	20.53
		1880.00	21.96	20.71
		1905.00	21.96	20.67
	100% RB	1855.00	21.55	20.42
		1880.00	22.13	21.23
		1905.00	22.21	21.00
15 MHz	1 RB low	1855.00	21.91	21.06
		1880.00	22.06	20.35
		1905.00	21.69	21.00
	1 RB high	1857.50	22.31	20.53
		1880.00	22.17	20.50
		1902.50	21.97	20.38
	50% RB mid	1857.50	22.28	20.84
		1880.00	22.30	20.97
		1902.50	22.32	21.20
	100% RB	1857.50	21.75	21.00
		1880.00	21.66	20.83
		1902.50	21.97	20.43
20 MHz	1 RB low	1857.50	22.03	20.39
		1880.00	22.14	20.77
		1902.50	22.32	20.89
	1 RB high	1860.00	22.18	21.30
		1880.00	21.75	21.04
		1900.00	21.59	21.09
	50% RB mid	1860.00	21.54	21.14
		1880.00	21.71	20.33
		1900.00	22.36	21.08
	100% RB	1860.00	22.20	21.03
		1880.00	21.93	20.64
		1900.00	22.29	20.43
		1860.00	22.37	20.34
		1880.00	21.92	21.07
		1900.00	21.74	21.28

LTE FDD Band 4				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	1710.70	22.92	21.37
		1732.50	22.65	21.43
		1754.30	22.73	21.65
	1 RB high	1710.70	22.69	21.89
		1732.50	22.90	22.06
		1754.30	23.44	22.01
	50% RB mid	1710.70	23.25	22.10
		1732.50	23.17	21.46
		1754.30	23.08	22.18
	100% RB	1710.70	23.28	22.04
		1732.50	22.56	21.92
		1754.30	23.37	21.58
3 MHz	1 RB low	1711.50	22.84	21.43
		1732.50	22.78	21.87
		1753.50	22.99	21.76
	1 RB high	1711.50	23.38	21.92
		1732.50	23.27	22.08
		1753.50	23.24	21.75
	50% RB mid	1711.50	22.77	21.32
		1732.50	23.31	21.36
		1753.50	22.54	21.93
	100% RB	1711.50	22.19	20.43
		1732.50	22.26	21.11
		1753.50	22.41	20.68
5 MHz	1 RB low	1712.50	22.40	20.97
		1732.50	22.48	20.47
		1752.50	21.93	21.28
	1 RB high	1712.50	21.71	21.14
		1732.50	22.04	21.07
		1752.50	21.96	21.01
	50% RB mid	1712.50	21.76	20.55
		1732.50	21.58	20.40
		1752.50	22.31	20.50
	100% RB	1712.50	22.49	20.37
		1732.50	22.05	21.21
		1752.50	21.70	20.75
10 MHz	1 RB low	1715.00	21.81	21.25
		1732.50	21.79	20.76
		1750.00	22.41	20.91
	1 RB high	1715.00	22.02	20.33
		1732.50	21.76	21.27
		1750.00	21.89	21.03
	50% RB mid	1715.00	21.78	20.52
		1732.50	21.70	20.98
		1750.00	21.62	20.85
	100% RB	1715.00	22.34	21.12
		1732.50	21.99	21.26
		1750.00	22.44	20.55
15 MHz	1 RB low	1707.50	21.88	20.86
		1732.50	22.39	20.46
		1747.50	22.17	20.41
	1 RB high	1707.50	21.98	20.61
		1732.50	22.39	20.39
		1747.50	21.91	20.80
	50% RB mid	1707.50	22.02	20.48
		1732.50	22.46	21.19
		1747.50	21.72	20.40
	100% RB	1707.50	22.20	20.73

20 MHz	1 RB low	1732.50	21.69	21.20
		1747.50	22.38	21.11
		1720.00	22.33	20.60
	1 RB high	1732.50	21.62	20.51
		1745.00	21.83	21.21
		1720.00	22.08	21.06
	50% RB mid	1732.50	21.68	20.56
		1745.00	22.01	20.94
		1720.00	21.57	20.76
	100% RB	1732.50	22.39	20.45
		1745.00	22.16	20.31
		1720.00	21.75	20.95
		1732.50	22.09	20.37
		1745.00	22.46	20.75

LTE FDD Band 5				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	824.70	22.37	21.40
		836.50	22.33	21.47
		848.30	22.36	21.32
	1 RB high	824.70	23.01	21.42
		836.50	23.18	21.19
		848.30	22.70	22.00
	50% RB mid	824.70	22.73	21.48
		836.50	23.26	21.77
		848.30	22.95	21.51
	100% RB	824.70	23.30	21.87
		836.50	22.66	21.71
		848.30	22.57	21.66
3 MHz	1 RB low	825.50	22.63	21.21
		836.50	22.38	21.14
		847.50	23.25	21.66
	1 RB high	825.50	22.62	21.98
		836.50	22.77	21.98
		847.50	22.37	22.10
	50% RB mid	825.50	23.26	21.56
		836.50	23.14	21.31
		847.50	22.34	21.66
	100% RB	825.50	21.97	20.89
		836.50	21.48	20.46
		847.50	22.09	20.63
5 MHz	1 RB low	826.50	22.09	20.86
		836.50	21.28	20.49
		846.50	22.20	20.59
	1 RB high	826.50	21.62	20.01
		836.50	21.74	20.70
		846.50	22.09	20.92
	50% RB mid	826.50	22.07	20.23
		836.50	22.16	20.91
		846.50	21.86	20.08
	100% RB	826.50	21.56	20.21
		836.50	21.62	20.65
		846.50	21.54	20.76
10 MHz	1 RB low	829.00	21.96	20.11
		836.50	21.63	20.43
		844.00	22.01	20.63
	1 RB high	829.00	21.99	20.43
		836.50	21.43	20.76
		844.00	22.13	20.93

	50% RB mid	829.00	22.13	20.32
		836.50	22.20	20.92
		844.00	21.46	20.44
	100% RB	829.00	21.98	20.81
		836.50	21.56	20.58
		844.00	22.36	20.95

LTE FDD Band 13				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
5 MHz	1 RB low	779.50	22.67	22.74
		782.00	23.00	22.51
		784.50	22.51	22.69
	1 RB high	779.50	22.68	22.98
		782.00	23.27	22.54
		784.50	23.03	22.59
	50% RB mid	779.50	23.13	22.90
		782.00	23.47	22.62
		784.50	23.06	22.54
	100% RB	779.50	23.28	22.74
		782.00	22.91	22.52
		784.50	22.84	23.27
10 MHz	1 RB low	782.00	22.70	23.22
	1 RB high	782.00	22.65	22.66
	50% RB mid	782.00	23.43	22.90
	100% RB	782.00	22.53	22.37

LTE FDD Band 25				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	1850.70	23.03	22.06
		1882.50	23.41	21.52
		1914.30	23.23	21.89
	1 RB high	1850.70	22.61	22.19
		1882.50	22.76	21.46
		1914.30	23.22	21.79
	50% RB mid	1850.70	22.63	21.95
		1882.50	23.22	21.95
		1914.30	23.02	21.36
	100% RB	1850.70	22.97	21.88
		1882.50	22.75	21.64
		1914.30	23.20	21.62
3 MHz	1 RB low	1851.50	23.13	21.83
		1882.50	23.17	22.26
		1913.50	23.05	22.09
	1 RB high	1851.50	23.39	21.92
		1882.50	22.94	22.10
		1913.50	23.45	22.10
	50% RB mid	1851.50	23.13	21.48
		1882.50	22.74	21.83
		1913.50	22.79	21.43
	100% RB	1851.50	21.86	20.46
		1882.50	21.66	20.90
		1913.50	21.81	21.10
5 MHz	1 RB low	1852.50	22.34	20.48
		1882.50	21.61	20.36
		1912.50	21.88	20.32
	1 RB high	1852.50	22.01	20.56
		1882.50	21.66	21.07
		1912.50	21.51	20.95
	50% RB mid	1852.50	21.54	20.40
		1882.50	22.30	20.64
		1912.50	21.81	21.18
	100% RB	1852.50	22.18	20.51
		1882.50	21.70	21.25
		1912.50	22.17	20.57
10 MHz	1 RB low	1855.00	22.38	21.22
		1882.50	21.58	20.53
		1910.00	22.08	20.91
	1 RB high	1855.00	22.35	20.42
		1882.50	21.53	20.47
		1910.00	21.83	20.85
	50% RB mid	1855.00	21.72	21.19
		1882.50	21.80	21.23
		1910.00	21.57	21.18
	100% RB	1855.00	21.93	20.66
		1882.50	21.99	20.64
		1910.00	21.52	20.49
15 MHz	1 RB low	1857.50	22.43	21.03
		1882.50	22.13	20.46
		1907.50	22.15	20.91
	1 RB high	1857.50	21.91	20.90
		1882.50	22.28	21.25
		1907.50	21.92	20.98
	50% RB mid	1857.50	22.45	20.31
		1882.50	22.13	20.46
		1907.50	22.16	20.69
	100% RB	1857.50	21.71	21.15

		1882.50	21.96	20.40
		1907.50	22.01	20.67
20 MHz	1 RB low	1860.00	21.75	21.16
		1882.50	22.05	20.50
		1905.00	22.43	20.41
	1 RB high	1860.00	22.23	20.48
		1882.50	21.81	21.19
		1905.00	21.79	20.63
	50% RB mid	1860.00	21.94	20.57
		1882.50	22.45	20.91
		1905.00	22.14	20.42
	100% RB	1860.00	21.82	21.17
		1882.50	21.72	21.21
		1905.00	22.42	21.11

LTE FDD Band 26(814-824MHz)				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	814.70	22.54	21.68
		819.00	22.99	21.89
		823.30	22.47	21.59
	1 RB high	814.70	22.49	21.82
		819.00	22.60	21.71
		823.30	22.98	21.40
	50% RB mid	814.70	22.87	21.89
		819.00	22.93	21.17
		823.30	23.18	21.16
	100% RB	814.70	22.65	21.78
		819.00	22.46	21.38
		823.30	22.77	21.45
3 MHz	1 RB low	815.50	22.64	21.40
		819.00	22.81	22.04
		822.50	22.56	21.99
	1 RB high	815.50	22.75	21.27
		819.00	23.09	21.98
		822.50	22.55	21.67
	50% RB mid	815.50	23.24	21.22
		819.00	23.11	21.98
		822.50	22.95	21.75
	100% RB	815.50	21.52	20.20
		819.00	22.10	20.47
		822.50	21.41	20.93
5 MHz	1 RB low	816.50	21.38	20.48
		819.00	22.03	20.82
		821.50	21.79	20.86
	1 RB high	816.50	21.63	20.87
		819.00	22.11	20.00
		821.50	21.84	20.07
	50% RB mid	816.50	21.95	20.14
		819.00	21.94	20.89
		821.50	21.66	20.47
	100% RB	816.50	21.45	20.44
		819.00	22.15	20.51
		821.50	21.75	20.56
10 MHz	1 RB low	819.00	22.01	20.55
	1 RB high	819.00	22.03	20.18
	50% RB mid	819.00	21.66	20.01
	100% RB	819.00	22.07	20.67

LTE FDD Band 26(824-849MHz)				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	824.70	22.17	20.96
		836.50	22.63	21.28
		848.30	21.90	21.16
	1 RB high	824.70	22.31	21.24
		836.50	22.51	21.27
		848.30	22.59	21.05
	50% RB mid	824.70	22.66	21.30
		836.50	22.37	21.00
		848.30	22.84	21.33
	100% RB	824.70	22.19	21.61
		836.50	22.64	20.91
		848.30	22.19	20.90
3 MHz	1 RB low	825.50	22.86	21.10
		836.50	22.05	20.93
		847.50	22.84	20.96
	1 RB high	825.50	22.42	21.65
		836.50	22.72	21.00
		847.50	22.67	21.58
	50% RB mid	825.50	22.62	20.81
		836.50	22.08	20.72
		847.50	22.02	21.58
	100% RB	825.50	21.88	20.63
		836.50	21.03	20.23
		847.50	21.10	20.39
5 MHz	1 RB low	826.50	21.41	20.11
		836.50	20.93	20.36
		846.50	21.60	20.64
	1 RB high	826.50	21.64	20.56
		836.50	21.66	20.50
		846.50	20.93	20.45
	50% RB mid	826.50	21.77	20.65
		836.50	21.87	20.17
		846.50	21.53	20.28
	100% RB	826.50	21.44	20.69
		836.50	21.31	20.43
		846.50	21.74	20.57
10 MHz	1 RB low	829.00	21.56	19.83
		836.50	21.74	20.07
		844.00	21.87	19.82
	1 RB high	829.00	21.05	20.64
		836.50	21.21	20.26
		844.00	21.81	20.06
	50% RB mid	829.00	21.69	20.29
		836.50	21.89	20.23
		844.00	21.64	20.00
	100% RB	829.00	21.01	20.01
		836.50	21.71	20.38
		844.00	21.64	20.08
15 MHz	1 RB low	831.50	21.70	20.14
		836.50	21.02	20.52
		841.50	21.05	20.32
	1 RB high	831.50	21.66	20.13
		836.50	20.94	19.77
		841.50	21.38	20.21
	50% RB mid	831.50	21.07	20.60
		836.50	21.52	19.95
		841.50	21.14	20.50

	100% RB	831.50	21.34	20.57
		836.50	20.97	19.86
		841.50	21.54	20.55

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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.
2. ERP = EIRP – 2.15dBi 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	Oliver Ou	Configurations	LTE

LTE Band 2

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 Gain (dBd/dBi)	Cable Loss (dB)				
1850.70	1.4	QPSK	H	86.13	14.12	11.04	1.71	23.46	33.00	9.54	
1850.70			V	85.68	12.63	11.04	1.71	21.97	33.00	11.03	
1851.50	3		H	85.66	12.49	11.04	1.71	21.83	33.00	11.17	
1851.50			V	85.50	12.82	11.04	1.71	22.16	33.00	10.84	
1852.50	5		H	87.47	14.41	11.04	1.71	23.75	33.00	9.25	
1852.50			V	86.73	12.43	11.04	1.71	21.77	33.00	11.23	
1855.00	10		H	85.97	12.25	11.04	1.71	21.59	33.00	11.41	
1855.00			V	85.48	12.62	11.04	1.71	21.96	33.00	11.04	
1857.50	15		H	86.93	11.87	11.04	1.71	21.21	33.00	11.79	
1857.50			V	87.07	12.92	11.04	1.71	22.26	33.00	10.74	
1860.00	20		H	86.92	12.01	11.04	1.71	21.35	33.00	11.65	
1860.00			V	87.16	12.52	11.04	1.71	21.85	33.00	11.15	
1850.70	1.4		16QAM	H	86.76	12.52	11.04	1.71	21.86	33.00	11.14
1850.70				V	85.47	13.43	11.04	1.71	22.77	33.00	10.23
1851.50	3	H		86.39	13.34	11.04	1.71	22.68	33.00	10.32	
1851.50		V		87.09	13.94	11.04	1.71	23.27	33.00	9.73	
1852.50	5	H		87.35	11.23	11.04	1.71	20.57	33.00	12.43	
1852.50		V		87.25	12.53	11.04	1.71	21.86	33.00	11.14	
1855.00	10	H		87.19	12.50	11.04	1.71	21.83	33.00	11.17	
1855.00		V		86.24	13.85	11.04	1.71	23.19	33.00	9.81	
1857.50	15	H		86.23	12.22	11.04	1.71	21.55	33.00	11.45	
1857.50		V		87.16	12.41	11.04	1.71	21.75	33.00	11.25	
1860.00	20	H		87.54	13.59	11.04	1.71	22.93	33.00	10.07	
1860.00		V		87.52	12.75	11.04	1.71	22.08	33.00	10.92	

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 Gain (dBd/dBi)	Cable Loss (dB)				
1880.000	1.4	QPSK	H	85.87	14.19	11.17	2.07	23.29	33.00	9.71	
1880.000			V	85.16	12.43	11.17	2.07	21.53	33.00	11.47	
1880.000	3		H	86.39	13.25	11.17	2.07	22.35	33.00	10.65	
1880.000			V	85.53	12.99	11.17	2.07	22.09	33.00	10.91	
1880.000	5		H	86.82	14.37	11.17	2.07	23.47	33.00	9.53	
1880.000			V	86.40	11.87	11.17	2.07	20.97	33.00	12.03	
1880.000	10		H	85.68	12.00	11.17	2.07	21.10	33.00	11.90	
1880.000			V	85.29	12.20	11.17	2.07	21.29	33.00	11.71	
1880.000	15		H	85.14	11.52	11.17	2.07	20.62	33.00	12.38	
1880.000			V	86.28	13.16	11.17	2.07	22.26	33.00	10.74	
1880.000	20		H	86.62	13.10	11.17	2.07	22.20	33.00	10.80	
1880.000			V	86.64	13.44	11.17	2.07	22.54	33.00	10.46	
1880.000	1.4		16QAM	H	85.48	11.38	11.17	2.07	20.48	33.00	12.52
1880.000				V	85.67	14.60	11.17	2.07	23.70	33.00	9.30
1880.000	3			H	85.52	13.02	11.17	2.07	22.12	33.00	10.88
1880.000				V	87.07	12.37	11.17	2.07	21.47	33.00	11.53
1880.000	5			H	86.71	13.10	11.17	2.07	22.20	33.00	10.80
1880.000				V	86.01	13.37	11.17	2.07	22.47	33.00	10.53
1880.000	10			H	86.82	11.77	11.17	2.07	20.87	33.00	12.13
1880.000				V	86.41	13.66	11.17	2.07	22.76	33.00	10.24
1880.000	15	H		86.76	13.58	11.17	2.07	22.68	33.00	10.32	
1880.000		V		86.93	12.49	11.17	2.07	21.59	33.00	11.41	
1880.000	20	H		87.32	13.55	11.17	2.07	22.65	33.00	10.35	
1880.000		V		86.32	11.90	11.17	2.07	21.00	33.00	12.00	

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 Gain (dBd/dBi)	Cable Loss (dB)				
1909.30	1.4	QPSK	H	86.00	12.24	11.87	2.60	21.52	33.00	11.48	
1909.30			V	85.60	11.75	11.87	2.60	21.02	33.00	11.98	
1908.50	3		H	86.38	12.95	11.87	2.60	22.23	33.00	10.77	
1908.50			V	84.65	11.42	11.87	2.60	20.69	33.00	12.31	
1907.50	5		H	85.92	13.12	11.87	2.60	22.39	33.00	10.61	
1907.50			V	86.88	12.85	11.87	2.60	22.13	33.00	10.87	
1905.00	10		H	86.11	12.07	11.87	2.60	21.34	33.00	11.66	
1905.00			V	85.79	13.53	11.87	2.60	22.80	33.00	10.20	
1902.50	15		H	85.16	12.25	11.87	2.60	21.52	33.00	11.48	
1902.50			V	86.83	12.46	11.87	2.60	21.73	33.00	11.27	
1900.00	20		H	86.58	12.51	11.87	2.60	21.79	33.00	11.21	
1900.00			V	86.45	13.58	11.87	2.60	22.85	33.00	10.15	
1909.30	1.4		16QAM	H	85.55	13.09	11.87	2.60	22.36	33.00	10.64
1909.30				V	86.69	14.64	11.87	2.60	23.91	33.00	9.09
1908.50	3	H		86.00	12.93	11.87	2.60	22.21	33.00	10.79	
1908.50		V		85.77	12.63	11.87	2.60	21.91	33.00	11.09	
1907.50	5	H		86.85	12.08	11.87	2.60	21.35	33.00	11.65	
1907.50		V		86.32	13.30	11.87	2.60	22.57	33.00	10.43	
1905.00	10	H		87.34	12.17	11.87	2.60	21.44	33.00	11.56	
1905.00		V		86.85	14.33	11.87	2.60	23.60	33.00	9.40	
1902.50	15	H		85.73	12.47	11.87	2.60	21.75	33.00	11.25	
1902.50		V		87.29	12.14	11.87	2.60	21.41	33.00	11.59	
1900.00	20	H		87.33	13.35	11.87	2.60	22.62	33.00	10.38	
1900.00		V		87.18	11.99	11.87	2.60	21.26	33.00	11.74	

LTE Band 4

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 Gain (dBd/dBi)	Cable Loss (dB)			
1710.70	1.4	QPSK	H	86.18	12.89	11.04	1.79	22.15	30.00	7.85
1710.70			V	84.64	12.50	11.04	1.79	21.75	30.00	8.25
1710.70	3		H	86.90	13.04	11.04	1.79	22.30	30.00	7.70
1710.70			V	85.88	11.87	11.04	1.79	21.12	30.00	8.88
1710.70	5		H	85.99	12.78	11.04	1.79	22.04	30.00	7.96
1710.70			V	87.11	12.75	11.04	1.79	22.00	30.00	8.00
1710.70	10		H	85.85	13.27	11.04	1.79	22.53	30.00	7.47
1710.70			V	85.90	13.61	11.04	1.79	22.86	30.00	7.14
1710.70	15		H	85.58	11.40	11.04	1.79	20.65	30.00	9.35
1710.70			V	85.84	13.06	11.04	1.79	22.31	30.00	7.69
1710.70	20		H	86.77	11.39	11.04	1.79	20.65	30.00	9.35
1710.70			V	85.75	13.05	11.04	1.79	22.30	30.00	7.70
1710.70	1.4	16QAM	H	86.98	11.38	11.04	1.79	20.64	30.00	9.36
1710.70			V	85.71	14.64	11.04	1.79	23.90	30.00	6.10
1710.70	3		H	86.79	13.29	11.04	1.79	22.55	30.00	7.45
1710.70			V	86.08	12.27	11.04	1.79	21.53	30.00	8.47
1710.70	5		H	86.36	12.58	11.04	1.79	21.83	30.00	8.17
1710.70			V	86.31	13.78	11.04	1.79	23.04	30.00	6.96
1710.70	10		H	86.14	12.58	11.04	1.79	21.84	30.00	8.16
1710.70			V	85.65	14.32	11.04	1.79	23.58	30.00	6.42
1710.70	15		H	86.00	11.95	11.04	1.79	21.20	30.00	8.80
1710.70			V	85.92	13.64	11.04	1.79	22.90	30.00	7.10
1710.70	20		H	86.20	13.58	11.04	1.79	22.84	30.00	7.16
1710.70			V	86.73	13.12	11.04	1.79	22.38	30.00	7.62

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 Gain (dBd/dBi)	Cable Loss (dB)				
1732.500	1.4	QPSK	H	84.84	13.74	11.22	2.07	22.88	30.00	7.12	
1732.500			V	85.35	12.70	11.22	2.07	21.85	30.00	8.15	
1732.500	3		H	86.19	12.46	11.22	2.07	21.61	30.00	8.39	
1732.500			V	84.29	12.16	11.22	2.07	21.31	30.00	8.69	
1732.500	5		H	87.45	14.37	11.22	2.07	23.52	30.00	6.48	
1732.500			V	87.21	11.87	11.22	2.07	21.02	30.00	8.98	
1732.500	10		H	86.63	13.84	11.22	2.07	22.99	30.00	7.01	
1732.500			V	85.52	12.21	11.22	2.07	21.36	30.00	8.64	
1732.500	15		H	86.87	13.00	11.22	2.07	22.14	30.00	7.86	
1732.500			V	86.86	13.94	11.22	2.07	23.09	30.00	6.91	
1732.500	20		H	85.43	12.31	11.22	2.07	21.46	30.00	8.54	
1732.500			V	85.22	12.76	11.22	2.07	21.91	30.00	8.09	
1732.500	1.4		16QAM	H	86.21	11.65	11.22	2.07	20.80	30.00	9.20
1732.500				V	85.69	14.48	11.22	2.07	23.62	30.00	6.38
1732.500	3			H	87.11	13.04	11.22	2.07	22.19	30.00	7.81
1732.500				V	85.91	12.26	11.22	2.07	21.41	30.00	8.59
1732.500	5	H		86.89	11.33	11.22	2.07	20.48	30.00	9.52	
1732.500		V		86.26	13.35	11.22	2.07	22.50	30.00	7.50	
1732.500	10	H		85.86	13.21	11.22	2.07	22.36	30.00	7.64	
1732.500		V		87.60	13.40	11.22	2.07	22.55	30.00	7.45	
1732.500	15	H		87.39	12.83	11.22	2.07	21.98	30.00	8.02	
1732.500		V		87.68	12.37	11.22	2.07	21.52	30.00	8.48	
1732.500	20	H		87.41	13.68	11.22	2.07	22.82	30.00	7.18	
1732.500		V		87.42	12.96	11.22	2.07	22.11	30.00	7.89	

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 Gain (dBd/dBi)	Cable Loss (dB)				
1754.30	1.4	QPSK	H	86.00	12.76	11.46	2.12	22.11	30.00	7.89	
1754.30			V	85.25	12.57	11.46	2.12	21.92	30.00	8.08	
1754.30	3		H	86.36	12.34	11.46	2.12	21.68	30.00	8.32	
1754.30			V	84.54	11.54	11.46	2.12	20.88	30.00	9.12	
1754.30	5		H	85.91	13.28	11.46	2.12	22.63	30.00	7.37	
1754.30			V	87.24	12.95	11.46	2.12	22.29	30.00	7.71	
1754.30	10		H	86.79	12.54	11.46	2.12	21.89	30.00	8.11	
1754.30			V	84.91	13.70	11.46	2.12	23.04	30.00	6.96	
1754.30	15		H	86.94	13.14	11.46	2.12	22.49	30.00	7.51	
1754.30			V	86.98	14.11	11.46	2.12	23.46	30.00	6.54	
1754.30	20		H	86.90	11.23	11.46	2.12	20.57	30.00	9.43	
1754.30			V	86.44	14.13	11.46	2.12	23.47	30.00	6.53	
1754.30	1.4		16QAM	H	86.48	12.67	11.46	2.12	22.01	30.00	7.99
1754.30				V	86.21	13.85	11.46	2.12	23.19	30.00	6.81
1754.30	3	H		87.08	12.01	11.46	2.12	21.35	30.00	8.65	
1754.30		V		86.00	13.94	11.46	2.12	23.29	30.00	6.71	
1754.30	5	H		86.41	11.23	11.46	2.12	20.57	30.00	9.43	
1754.30		V		85.76	13.22	11.46	2.12	22.56	30.00	7.44	
1754.30	10	H		87.51	12.91	11.46	2.12	22.25	30.00	7.75	
1754.30		V		86.86	12.82	11.46	2.12	22.16	30.00	7.84	
1754.30	15	H		86.28	11.69	11.46	2.12	21.03	30.00	8.97	
1754.30		V		87.18	13.63	11.46	2.12	22.98	30.00	7.02	
1754.30	20	H		87.19	12.46	11.46	2.12	21.80	30.00	8.20	
1754.30		V		86.04	12.76	11.46	2.12	22.10	30.00	7.90	

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	86.53	20.84	1.09	0.41	21.52	38.45	16.93
824.70			V	84.82	19.62	1.09	0.41	20.30	38.45	18.15
825.50	3		H	86.58	20.00	1.09	0.41	20.68	38.45	17.77
825.50			V	84.28	20.69	1.09	0.41	21.37	38.45	17.08
826.50	5		H	86.62	19.36	1.09	0.41	20.04	38.45	18.41
826.50			V	87.11	20.28	1.09	0.41	20.96	38.45	17.49
829.00	10		H	85.84	20.12	1.09	0.41	20.80	38.45	17.65
829.00			V	84.41	20.70	1.09	0.41	21.38	38.45	17.07
824.70	1.4	16QAM	H	85.90	19.86	1.09	0.41	20.54	38.45	17.91
824.70			V	86.82	20.07	1.09	0.41	20.75	38.45	17.70
825.50	3		H	86.94	19.20	1.09	0.41	19.87	38.45	18.58
825.50			V	85.40	19.32	1.09	0.41	20.00	38.45	18.45
826.50	5		H	86.38	19.61	1.09	0.41	20.29	38.45	18.16
826.50			V	87.20	20.07	1.09	0.41	20.74	38.45	17.71
829.00	10		H	86.67	20.01	1.09	0.41	20.69	38.45	17.76
829.00			V	85.96	19.68	1.09	0.41	20.36	38.45	18.09

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	85.41	20.77	1.14	0.57	21.34	38.45	17.11
836.50			V	85.73	20.85	1.14	0.57	21.41	38.45	17.04
836.50	3		H	86.49	19.45	1.14	0.57	20.02	38.45	18.43
836.50			V	84.49	19.06	1.14	0.57	19.62	38.45	18.83
836.50	5		H	87.02	19.49	1.14	0.57	20.05	38.45	18.40
836.50			V	86.65	20.27	1.14	0.57	20.83	38.45	17.62
836.50	10		H	86.51	19.78	1.14	0.57	20.35	38.45	18.10
836.50			V	86.17	20.00	1.14	0.57	20.56	38.45	17.89
836.50	1.4	16QAM	H	86.38	19.01	1.14	0.57	19.58	38.45	18.87
836.50			V	86.03	19.06	1.14	0.57	19.63	38.45	18.82
836.50	3		H	86.98	20.49	1.14	0.57	21.05	38.45	17.40
836.50			V	86.98	20.61	1.14	0.57	21.17	38.45	17.28
836.50	5		H	86.43	20.76	1.14	0.57	21.33	38.45	17.12
836.50			V	85.53	19.65	1.14	0.57	20.22	38.45	18.23
836.50	10		H	85.54	20.21	1.14	0.57	20.78	38.45	17.67
836.50			V	87.09	19.17	1.14	0.57	19.74	38.45	18.71

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 Gain (dBd/dBi)	Cable Loss (dB)			
848.30	1.4	QPSK	H	84.87	19.15	1.62	0.65	20.12	38.45	18.33
848.30			V	84.78	19.37	1.62	0.65	20.34	38.45	18.11
847.50	3		H	86.93	20.20	1.62	0.65	21.17	38.45	17.28
847.50			V	84.28	20.08	1.62	0.65	21.04	38.45	17.41
846.50	5		H	86.90	19.18	1.62	0.65	20.14	38.45	18.31
846.50			V	86.24	20.52	1.62	0.65	21.49	38.45	16.96
844.00	10		H	86.22	19.60	1.62	0.65	20.57	38.45	17.88
844.00			V	84.35	20.31	1.62	0.65	21.28	38.45	17.17
848.30	1.4	16QAM	H	86.83	19.63	1.62	0.65	20.60	38.45	17.85
848.30			V	86.92	19.72	1.62	0.65	20.68	38.45	17.77
847.50	3		H	85.66	20.54	1.62	0.65	21.51	38.45	16.94
847.50			V	87.13	20.72	1.62	0.65	21.68	38.45	16.77
846.50	5		H	86.57	20.03	1.62	0.65	21.00	38.45	17.45
846.50			V	85.53	19.35	1.62	0.65	20.32	38.45	18.13
844.00	10		H	85.50	19.92	1.62	0.65	20.89	38.45	17.56
844.00			V	86.18	20.87	1.62	0.65	21.84	38.45	16.61

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	84.89	19.91	0.95	0.50	20.36	34.77	14.41
779.50			V	85.88	19.67	0.95	0.50	20.12	34.77	14.65
779.50	10		H	85.42	19.22	0.95	0.50	19.67	34.77	15.10
779.50			V	85.04	19.61	0.95	0.50	20.06	34.77	14.71
779.50	5	16QAM	H	87.39	19.45	0.95	0.50	19.90	34.77	14.87
779.50			V	85.99	20.94	0.95	0.50	21.39	34.77	13.38
779.50	10		H	85.92	20.72	0.95	0.50	21.17	34.77	13.60
779.50			V	84.37	20.53	0.95	0.50	20.98	34.77	13.79

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	85.53	20.05	1.35	0.61	20.79	34.77	13.98
782.00			V	85.63	20.95	1.35	0.61	21.69	34.77	13.08
782.00	10		H	86.82	20.31	1.35	0.61	21.05	34.77	13.72
782.00			V	85.60	20.79	1.35	0.61	21.52	34.77	13.25
782.00	5	16QAM	H	87.48	20.22	1.35	0.61	20.95	34.77	13.82
782.00			V	86.77	20.90	1.35	0.61	21.64	34.77	13.13
782.00	10		H	86.03	20.35	1.35	0.61	21.09	34.77	13.68
782.00			V	84.65	20.85	1.35	0.61	21.58	34.77	13.19

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	85.38	20.08	1.69	0.67	21.10	34.77	13.67
784.50			V	84.44	20.03	1.69	0.67	21.05	34.77	13.72
784.50	10		H	85.32	20.63	1.69	0.67	21.65	34.77	13.12
784.50			V	84.63	20.73	1.69	0.67	21.75	34.77	13.02
784.50	5	16QAM	H	85.86	20.69	1.69	0.67	21.71	34.77	13.06
784.50			V	86.58	19.24	1.69	0.67	20.26	34.77	14.51
784.50	10		H	85.79	20.23	1.69	0.67	21.25	34.77	13.52
784.50			V	85.63	20.33	1.69	0.67	21.35	34.77	13.42

LTE Band 25

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 Gain (dBd/dBi)	Cable Loss (dB)				
1850.70	1.4	QPSK	H	85.58	13.03	11.01	1.76	22.29	33.00	10.71	
1850.70			V	84.20	11.95	11.01	1.76	21.20	33.00	11.80	
1850.70	3		H	85.75	13.24	11.01	1.76	22.49	33.00	10.51	
1850.70			V	85.83	12.97	11.01	1.76	22.22	33.00	10.78	
1850.70	5		H	87.37	13.57	11.01	1.76	22.82	33.00	10.18	
1850.70			V	86.38	11.92	11.01	1.76	21.17	33.00	11.83	
1850.70	10		H	85.85	12.50	11.01	1.76	21.75	33.00	11.25	
1850.70			V	84.30	12.07	11.01	1.76	21.32	33.00	11.68	
1850.70	15		H	86.21	12.63	11.01	1.76	21.88	33.00	11.12	
1850.70			V	85.89	13.62	11.01	1.76	22.87	33.00	10.13	
1850.70	20		H	86.37	12.15	11.01	1.76	21.40	33.00	11.60	
1850.70			V	86.57	12.87	11.01	1.76	22.12	33.00	10.88	
1850.70	1.4		16QAM	H	85.87	13.27	11.01	1.76	22.53	33.00	10.47
1850.70				V	86.06	13.72	11.01	1.76	22.97	33.00	10.03
1850.70	3	H		85.63	12.02	11.01	1.76	21.28	33.00	11.72	
1850.70		V		86.58	14.18	11.01	1.76	23.43	33.00	9.57	
1850.70	5	H		86.66	12.69	11.01	1.76	21.94	33.00	11.06	
1850.70		V		87.24	14.27	11.01	1.76	23.52	33.00	9.48	
1850.70	10	H		86.70	12.57	11.01	1.76	21.83	33.00	11.17	
1850.70		V		86.50	14.19	11.01	1.76	23.45	33.00	9.55	
1850.70	15	H		87.08	12.59	11.01	1.76	21.84	33.00	11.16	
1850.70		V		87.43	13.11	11.01	1.76	22.37	33.00	10.63	
1850.70	20	H		87.02	12.48	11.01	1.76	21.73	33.00	11.27	
1850.70		V		86.82	12.81	11.01	1.76	22.07	33.00	10.93	

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 Gain (dBd/dBi)	Cable Loss (dB)				
1882.50	1.4	QPSK	H	86.62	12.44	11.23	2.16	21.51	33.00	11.49	
1882.50			V	84.50	12.86	11.23	2.16	21.93	33.00	11.07	
1882.50	3		H	85.70	14.10	11.23	2.16	23.16	33.00	9.84	
1882.50			V	84.52	12.14	11.23	2.16	21.21	33.00	11.79	
1882.50	5		H	87.48	13.47	11.23	2.16	22.54	33.00	10.46	
1882.50			V	86.89	12.44	11.23	2.16	21.50	33.00	11.50	
1882.50	10		H	86.41	13.24	11.23	2.16	22.31	33.00	10.69	
1882.50			V	84.81	13.70	11.23	2.16	22.77	33.00	10.23	
1882.50	15		H	86.60	11.88	11.23	2.16	20.95	33.00	12.05	
1882.50			V	85.56	14.16	11.23	2.16	23.22	33.00	9.78	
1882.50	20		H	85.42	12.02	11.23	2.16	21.09	33.00	11.91	
1882.50			V	86.31	13.35	11.23	2.16	22.42	33.00	10.58	
1882.50	1.4		16QAM	H	86.34	11.53	11.23	2.16	20.60	33.00	12.40
1882.50				V	87.09	13.69	11.23	2.16	22.76	33.00	10.24
1882.50	3			H	86.36	12.85	11.23	2.16	21.91	33.00	11.09
1882.50				V	87.20	12.34	11.23	2.16	21.41	33.00	11.59
1882.50	5	H		85.78	12.89	11.23	2.16	21.96	33.00	11.04	
1882.50		V		86.02	14.15	11.23	2.16	23.21	33.00	9.79	
1882.50	10	H		86.47	12.99	11.23	2.16	22.05	33.00	10.95	
1882.50		V		87.25	13.42	11.23	2.16	22.49	33.00	10.51	
1882.50	15	H		86.71	12.51	11.23	2.16	21.58	33.00	11.42	
1882.50		V		86.62	12.06	11.23	2.16	21.12	33.00	11.88	
1882.50	20	H		87.21	12.30	11.23	2.16	21.37	33.00	11.63	
1882.50		V		86.62	12.04	11.23	2.16	21.11	33.00	11.89	

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 Gain (dBd/dBi)	Cable Loss (dB)				
1914.30	1.4	QPSK	H	85.62	12.63	11.94	2.59	21.98	33.00	11.02	
1914.30			V	85.76	11.80	11.94	2.59	21.15	33.00	11.85	
1914.30	3		H	86.23	14.11	11.94	2.59	23.46	33.00	9.54	
1914.30			V	85.73	13.12	11.94	2.59	22.47	33.00	10.53	
1914.30	5		H	87.37	12.82	11.94	2.59	22.17	33.00	10.83	
1914.30			V	85.75	12.28	11.94	2.59	21.62	33.00	11.38	
1914.30	10		H	85.81	13.07	11.94	2.59	22.41	33.00	10.59	
1914.30			V	85.31	12.93	11.94	2.59	22.27	33.00	10.73	
1914.30	15		H	86.87	11.76	11.94	2.59	21.10	33.00	11.90	
1914.30			V	85.26	12.77	11.94	2.59	22.12	33.00	10.88	
1914.30	20		H	85.59	12.43	11.94	2.59	21.78	33.00	11.22	
1914.30			V	86.89	13.37	11.94	2.59	22.72	33.00	10.28	
1914.30	1.4		16QAM	H	85.52	12.23	11.94	2.59	21.58	33.00	11.42
1914.30				V	86.82	14.37	11.94	2.59	23.72	33.00	9.28
1914.30	3	H		85.50	13.27	11.94	2.59	22.61	33.00	10.39	
1914.30		V		86.19	12.86	11.94	2.59	22.21	33.00	10.79	
1914.30	5	H		86.64	12.20	11.94	2.59	21.54	33.00	11.46	
1914.30		V		86.13	13.28	11.94	2.59	22.62	33.00	10.38	
1914.30	10	H		86.32	12.52	11.94	2.59	21.87	33.00	11.13	
1914.30		V		87.34	13.71	11.94	2.59	23.05	33.00	9.95	
1914.30	15	H		87.11	13.31	11.94	2.59	22.66	33.00	10.34	
1914.30		V		85.97	12.16	11.94	2.59	21.50	33.00	11.50	
1914.30	20	H		87.19	13.76	11.94	2.59	23.11	33.00	9.89	
1914.30		V		87.54	12.83	11.94	2.59	22.17	33.00	10.83	

LTE Band 26(814-824MHz)

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)				
814.70	1.4	QPSK	H	86.61	19.68	1.29	0.29	20.68	50.00	29.32	
814.70			V	85.40	20.95	1.29	0.29	21.94	50.00	28.06	
814.70	3		H	85.12	21.03	1.29	0.29	22.02	50.00	27.98	
814.70			V	84.17	19.66	1.29	0.29	20.65	50.00	29.35	
814.70	5		H	87.14	20.10	1.29	0.29	21.10	50.00	28.90	
814.70			V	86.23	20.97	1.29	0.29	21.96	50.00	28.04	
814.70	10		H	87.22	20.17	1.29	0.29	21.16	50.00	28.84	
814.70			V	84.44	19.46	1.29	0.29	20.45	50.00	29.55	
814.70	1.4		16QAM	H	86.21	20.85	1.29	0.29	21.85	50.00	28.15
814.70				V	87.09	20.58	1.29	0.29	21.58	50.00	28.42
814.70	3			H	86.46	20.56	1.29	0.29	21.55	50.00	28.45
814.70				V	85.29	20.67	1.29	0.29	21.67	50.00	28.33
814.70	5			H	86.95	19.64	1.29	0.29	20.64	50.00	29.36
814.70				V	86.23	19.30	1.29	0.29	20.29	50.00	29.71
814.70	10	H		85.86	21.11	1.29	0.29	22.10	50.00	27.90	
814.70		V		87.14	20.90	1.29	0.29	21.89	50.00	28.11	

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)			
819.00	1.4	QPSK	H	86.64	19.51	1.41	0.32	20.60	50.00	29.40
819.00			V	84.43	19.49	1.41	0.32	20.58	50.00	29.42
819.00	3		H	86.30	20.65	1.41	0.32	21.74	50.00	28.26
819.00			V	84.88	20.05	1.41	0.32	21.14	50.00	28.86
819.00	5		H	85.98	20.71	1.41	0.32	21.80	50.00	28.20
819.00			V	86.80	19.80	1.41	0.32	20.89	50.00	29.11
819.00	10		H	87.06	19.68	1.41	0.32	20.77	50.00	29.23
819.00			V	85.39	19.62	1.41	0.32	20.71	50.00	29.29
819.00	1.4	16QAM	H	85.11	19.19	1.41	0.32	20.28	50.00	29.72
819.00			V	86.71	19.30	1.41	0.32	20.39	50.00	29.61
819.00	3		H	86.73	20.76	1.41	0.32	21.85	50.00	28.15
819.00			V	85.68	21.13	1.41	0.32	22.22	50.00	27.78
819.00	5		H	87.15	20.43	1.41	0.32	21.52	50.00	28.48
819.00			V	86.03	21.04	1.41	0.32	22.13	50.00	27.87
819.00	10		H	86.43	19.69	1.41	0.32	20.78	50.00	29.22
819.00			V	85.55	20.56	1.41	0.32	21.65	50.00	28.35

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)			
823.30	1.4	QPSK	H	85.06	20.66	1.94	0.54	22.06	50.00	27.94
823.30			V	84.57	19.35	1.94	0.54	20.75	50.00	29.25
823.30	3		H	86.05	20.17	1.94	0.54	21.57	50.00	28.43
823.30			V	85.52	20.68	1.94	0.54	22.08	50.00	27.92
823.30	5		H	87.19	20.63	1.94	0.54	22.03	50.00	27.97
823.30			V	86.26	19.64	1.94	0.54	21.04	50.00	28.96
823.30	10		H	86.76	20.93	1.94	0.54	22.33	50.00	27.67
823.30			V	84.55	20.69	1.94	0.54	22.09	50.00	27.91
823.30	1.4	16QAM	H	86.57	20.91	1.94	0.54	22.31	50.00	27.69
823.30			V	86.19	19.68	1.94	0.54	21.08	50.00	28.92
823.30	3		H	85.33	20.50	1.94	0.54	21.90	50.00	28.10
823.30			V	85.71	20.24	1.94	0.54	21.65	50.00	28.35
823.30	5		H	87.22	19.75	1.94	0.54	21.15	50.00	28.85
823.30			V	85.90	19.49	1.94	0.54	20.90	50.00	29.10
823.30	10		H	85.47	20.85	1.94	0.54	22.26	50.00	27.74
823.30			V	86.54	19.87	1.94	0.54	21.28	50.00	28.72

LTE Band 26(824-849MHz)

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	86.60	20.78	0.97	0.29	21.45	38.45	17.00
824.70			V	85.65	20.28	0.97	0.29	20.95	38.45	17.50
824.70	3		H	86.17	21.52	0.97	0.29	22.20	38.45	16.25
824.70			V	84.80	20.90	0.97	0.29	21.58	38.45	16.87
824.70	5		H	86.52	21.12	0.97	0.29	21.80	38.45	16.65
824.70			V	86.63	21.09	0.97	0.29	21.77	38.45	16.68
824.70	10		H	86.09	21.05	0.97	0.29	21.73	38.45	16.72
824.70			V	84.95	20.58	0.97	0.29	21.26	38.45	17.19
836.50	15		H	86.05	20.30	0.97	0.29	20.98	38.45	17.47
824.70			V	86.23	20.17	0.97	0.29	20.85	38.45	17.60
824.70	1.4	16QAM	H	87.02	20.50	0.97	0.29	21.18	38.45	17.27
824.70			V	86.03	20.11	0.97	0.29	20.79	38.45	17.66
824.70	3		H	86.20	19.83	0.97	0.29	20.51	38.45	17.94
824.70			V	86.97	20.99	0.97	0.29	21.67	38.45	16.78
824.70	5		H	87.29	21.27	0.97	0.29	21.95	38.45	16.50
824.70			V	86.19	20.70	0.97	0.29	21.38	38.45	17.07
824.70	10		H	87.31	20.46	0.97	0.29	21.14	38.45	17.31
824.70			V	86.89	19.66	0.97	0.29	20.34	38.45	18.11
824.70	15		H	87.35	19.67	0.97	0.29	20.35	38.45	18.10
824.70			V	86.07	19.62	0.97	0.29	20.30	38.45	18.15

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)				
836.50	1.4	QPSK	H	86.49	20.62	1.32	0.53	21.42	38.45	17.03	
836.50			V	85.73	20.57	1.32	0.53	21.37	38.45	17.08	
836.50	3		H	85.70	21.52	1.32	0.53	22.31	38.45	16.14	
836.50			V	84.99	20.52	1.32	0.53	21.31	38.45	17.14	
836.50	5		H	86.69	19.86	1.32	0.53	20.66	38.45	17.79	
836.50			V	85.74	20.23	1.32	0.53	21.03	38.45	17.42	
836.50	10		H	85.82	21.01	1.32	0.53	21.80	38.45	16.65	
836.50			V	84.77	19.64	1.32	0.53	20.44	38.45	18.01	
836.50	15		H	86.68	20.00	1.32	0.53	20.79	38.45	17.66	
1882.50			V	85.89	21.08	1.32	0.53	21.88	38.45	16.57	
836.50	1.4		16QAM	H	86.16	21.13	1.32	0.53	21.92	38.45	16.53
836.50				V	87.01	21.05	1.32	0.53	21.84	38.45	16.61
836.50	3			H	86.84	20.84	1.32	0.53	21.64	38.45	16.81
836.50				V	86.64	21.10	1.32	0.53	21.89	38.45	16.56
836.50	5			H	86.84	21.33	1.32	0.53	22.13	38.45	16.32
836.50				V	87.17	20.44	1.32	0.53	21.23	38.45	17.22
836.50	10	H		86.86	21.22	1.32	0.53	22.02	38.45	16.43	
836.50		V		87.44	21.32	1.32	0.53	22.12	38.45	16.33	
836.50	15	H		87.38	20.61	1.32	0.53	21.41	38.45	17.04	
836.50		V		87.24	20.59	1.32	0.53	21.39	38.45	17.06	

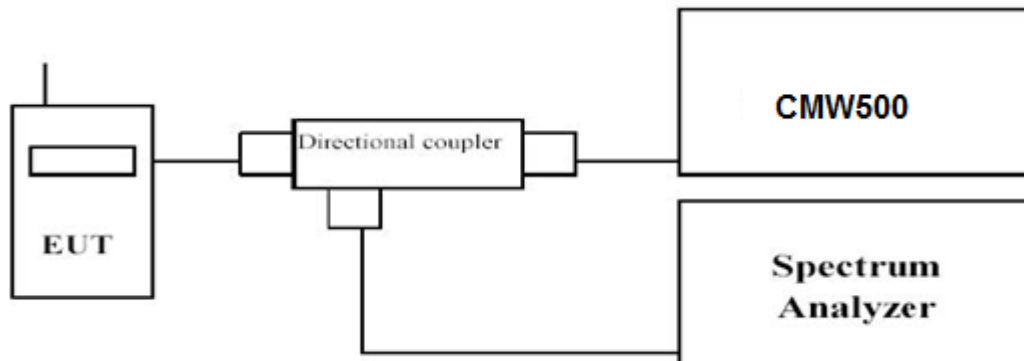
Frequency (MHz)	BW (MHz)	Modulation	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level ERP (dBm)	Limit (dBm)	Margin (dB)
					Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
848.30	1.4	QPSK	H	86.59	20.26	1.61	0.55	21.32	38.45	17.13
848.30			V	85.25	19.81	1.61	0.55	20.86	38.45	17.59
848.30	3		H	85.81	21.03	1.61	0.55	22.09	38.45	16.36
848.30			V	84.53	20.19	1.61	0.55	21.25	38.45	17.20
848.30	5		H	86.78	19.63	1.61	0.55	20.69	38.45	17.76
848.30			V	86.93	20.49	1.61	0.55	21.55	38.45	16.90
848.30	10		H	86.86	19.88	1.61	0.55	20.94	38.45	17.51
848.30			V	85.20	20.05	1.61	0.55	21.11	38.45	17.34
848.30	15		H	86.27	21.30	1.61	0.55	22.35	38.45	16.10
848.30			V	86.50	20.21	1.61	0.55	21.27	38.45	17.18
848.30	1.4	16QAM	H	85.56	21.30	1.61	0.55	22.36	38.45	16.09
848.30			V	86.82	19.74	1.61	0.55	20.80	38.45	17.65
848.30	3		H	86.25	21.38	1.61	0.55	22.44	38.45	16.01
848.30			V	85.86	20.60	1.61	0.55	21.65	38.45	16.80
848.30	5		H	85.57	21.16	1.61	0.55	22.22	38.45	16.23
848.30			V	86.48	20.69	1.61	0.55	21.75	38.45	16.70
848.30	10		H	85.86	21.48	1.61	0.55	22.54	38.45	15.91
848.30			V	86.46	19.90	1.61	0.55	20.95	38.45	17.50
848.30	15		H	86.33	20.32	1.61	0.55	21.38	38.45	17.07
848.30			V	86.69	20.56	1.61	0.55	21.62	38.45	16.83

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 timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Oliver Ou	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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

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 13, please refer to Appendix Band 13: Section A;
5. For E-UTRA Band 25, please refer to Appendix Band 25: Section A;
6. For E-UTRA Band 26(814MHz~824MHz), please refer to Appendix Band 26(814MHz~824MHz): Section A;
7. For E-UTRA Band 26(824MHz~849MHz), please refer to Appendix Band 26(824MHz~849MHz): Section A;

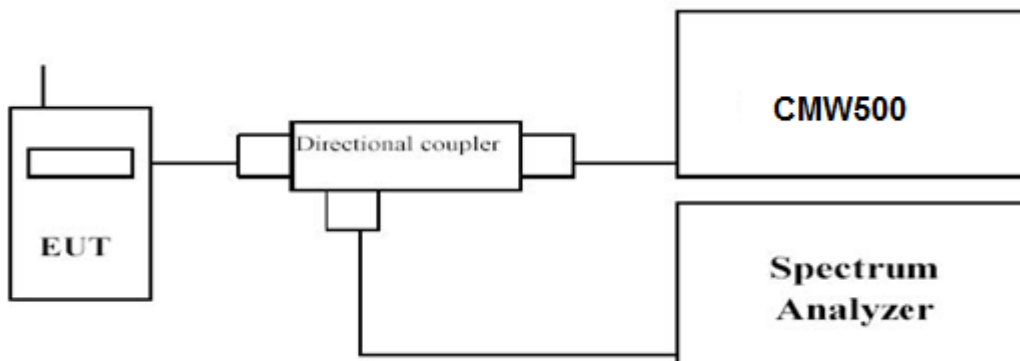
NOTE:We measured all modes and only recorded the worst case.

4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

FCC §2.1049, §22.917, §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≥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	Oliver Ou	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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

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 13, please refer to Appendix Band 13: Section B;
5. For E-UTRA Band 25, please refer to Appendix Band 25: Section B;
6. For E-UTRA Band 26(814MHz~824MHz), please refer to Appendix Band 26(814MHz~824MHz): Section B;
7. For E-UTRA Band 26(824MHz~849MHz), please refer to Appendix Band 26(824MHz~849MHz): Section B;

Remark:

1. Test results including cable loss;
2. Please refer to following plots;

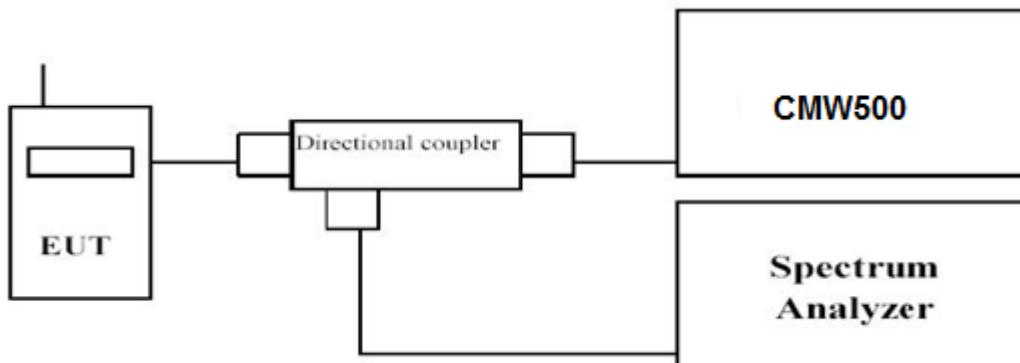
NOTE:We measured all modes and only recorded the worst case.

4.4 Band Edge compliance

LIMIT

FCC § 2.1053, §22.917, § 24.238, § 27.53 and §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	Oliver Ou	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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

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 13, please refer to Appendix Band 13: Section C;
5. For E-UTRA Band 25, please refer to Appendix Band 25: Section C;
6. For E-UTRA Band 26(814MHz~824MHz), please refer to Appendix Band 26(814MHz~824MHz): Section C;
7. For E-UTRA Band 26(824MHz~849MHz), please refer to Appendix Band 26(824MHz~849MHz): Section C;

Remark:

1. Test results including cable loss;
2. Please refer to following plots;

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

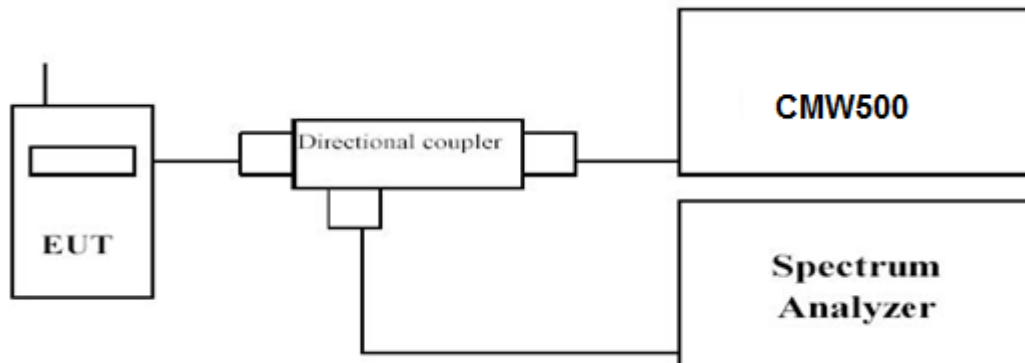
4.5 Spurious Emission

LIMIT

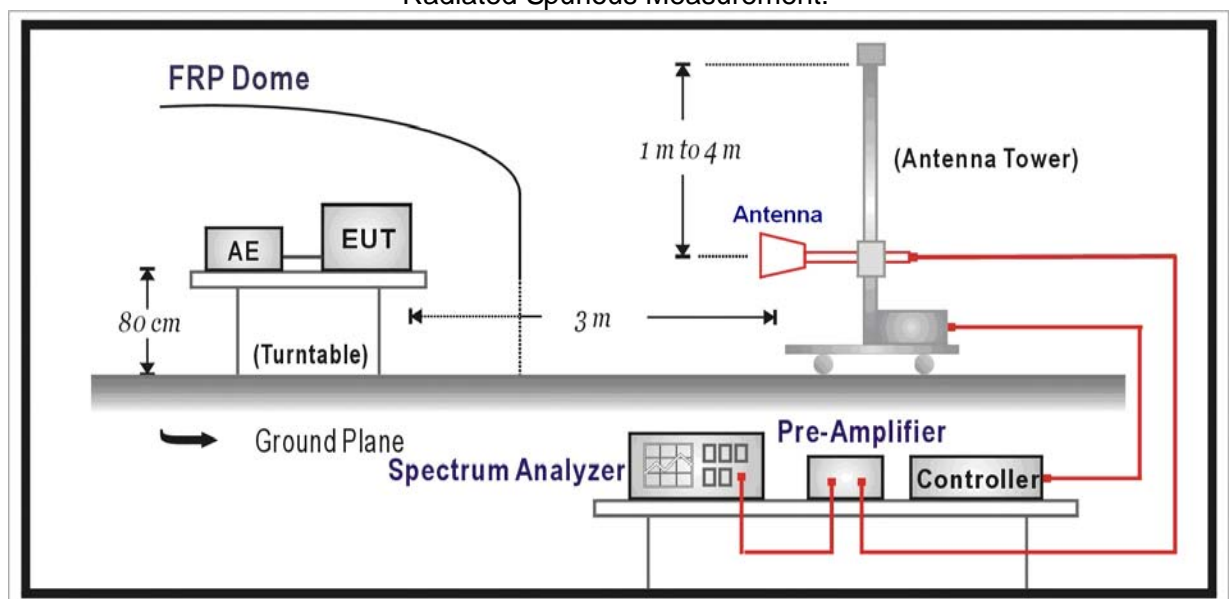
FCC § 2.1053, §22.917, § 24.238, § 27.53 and §90.691.

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	Oliver Ou	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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

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 13, please refer to Appendix Band 13: Section D;
5. For E-UTRA Band 25, please refer to Appendix Band 25: Section D;
6. For E-UTRA Band 26(814MHz~824MHz), please refer to Appendix Band 26(814MHz~824MHz): Section D;
7. For E-UTRA Band 26(824MHz~849MHz), please refer to Appendix Band 26(824MHz~849MHz): Section D;

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 7	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. Please refer to following plots;
3. 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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Oliver Ou	Configurations	LTE

For Less than 1 GHZ:*LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.70	-46.03	3.91	3.00	8.66	-41.28	-13.00	-28.28	H
235.39	-45.89	4.12	3.00	7.02	-42.98	-13.00	-29.98	H
552.60	-41.93	3.71	3.00	8.62	-37.03	-13.00	-24.03	V
898.25	-43.54	4.24	3.00	7.07	-40.72	-13.00	-27.72	V

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
148.41	-46.12	3.66	3.00	8.51	-41.27	-13.00	-28.27	H
240.59	-46.58	4.36	3.00	6.83	-44.11	-13.00	-31.11	H
559.28	-42.58	3.98	3.00	8.56	-37.99	-13.00	-24.99	V
904.16	-44.63	4.44	3.00	7.15	-41.91	-13.00	-28.91	V

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.14	-47.46	4.01	3.00	8.37	-43.11	-13.00	-30.11	H
241.78	-45.67	4.35	3.00	6.94	-43.08	-13.00	-30.08	H
555.73	-44.32	3.90	3.00	8.62	-39.60	-13.00	-26.60	V
902.45	-44.98	4.09	3.00	6.98	-42.09	-13.00	-29.09	V

LTE FDD Band 2_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
149.25	-46.00	3.68	3.00	8.50	-41.18	-13.00	-28.18	H
234.29	-45.73	4.25	3.00	6.87	-43.11	-13.00	-30.11	H
559.23	-41.67	3.75	3.00	8.61	-36.81	-13.00	-23.81	V
900.79	-43.68	4.47	3.00	6.84	-41.31	-13.00	-28.31	V

LTE FDD Band 2_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.73	-46.01	3.81	3.00	8.48	-41.34	-13.00	-28.34	H
239.80	-46.78	4.46	3.00	6.94	-44.31	-13.00	-31.31	H
557.02	-42.89	3.89	3.00	8.58	-38.19	-13.00	-25.19	V
906.23	-44.44	4.14	3.00	6.83	-41.74	-13.00	-28.74	V

LTE FDD Band 2_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
148.55	-47.61	3.80	3.00	8.39	-43.01	-13.00	-30.01	H
234.28	-45.69	4.26	3.00	7.18	-42.77	-13.00	-29.77	H
558.27	-44.50	3.86	3.00	8.55	-39.80	-13.00	-26.80	V
897.52	-44.97	4.46	3.00	6.87	-42.56	-13.00	-29.56	V

LTE FDD Band 4_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
149.34	-45.75	3.91	3.00	8.49	-41.18	-13.00	-28.18	H
239.97	-45.76	4.29	3.00	7.04	-43.01	-13.00	-30.01	H
552.26	-41.95	3.73	3.00	8.75	-36.93	-13.00	-23.93	V
906.65	-43.42	4.36	3.00	7.12	-40.66	-13.00	-27.66	V

LTE FDD Band 4_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
149.17	-45.91	4.01	3.00	8.42	-41.49	-13.00	-28.49	H
233.62	-46.70	4.44	3.00	7.01	-44.13	-13.00	-31.13	H
553.75	-42.64	3.75	3.00	8.36	-38.03	-13.00	-25.03	V
900.03	-44.47	4.30	3.00	6.93	-41.85	-13.00	-28.85	V

LTE FDD Band 4_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
154.78	-47.70	3.73	3.00	8.38	-43.05	-13.00	-30.05	H
235.68	-45.79	4.17	3.00	7.14	-42.82	-13.00	-29.82	H
554.78	-44.53	3.71	3.00	8.41	-39.83	-13.00	-26.83	V
904.32	-45.20	4.25	3.00	6.81	-42.64	-13.00	-29.64	V

LTE FDD Band 4_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
151.73	-45.85	3.88	3.00	8.59	-41.14	-13.00	-28.14	H
234.05	-45.82	4.48	3.00	7.07	-43.24	-13.00	-30.24	H
556.14	-41.92	3.87	3.00	8.36	-37.42	-13.00	-24.42	V
904.83	-43.36	4.16	3.00	6.82	-40.70	-13.00	-27.70	V

LTE FDD Band 4_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
148.78	-45.94	3.66	3.00	8.59	-41.01	-13.00	-28.01	H
241.14	-46.60	4.36	3.00	6.82	-44.15	-13.00	-31.15	H
552.08	-42.66	3.99	3.00	8.44	-38.21	-13.00	-25.21	V
898.98	-44.73	4.49	3.00	6.99	-42.23	-13.00	-29.23	V

LTE FDD Band 4_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
152.73	-47.45	4.06	3.00	8.40	-43.10	-13.00	-30.10	H
240.78	-45.81	4.15	3.00	6.90	-43.06	-13.00	-30.06	H
556.82	-44.62	3.73	3.00	8.54	-39.81	-13.00	-26.81	V
899.74	-45.28	4.10	3.00	7.17	-42.21	-13.00	-29.21	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
148.84	-45.68	3.69	3.00	8.52	-40.85	-13.00	-27.85	H
240.25	-46.03	4.41	3.00	6.92	-43.51	-13.00	-30.51	H
553.82	-41.68	3.87	3.00	8.64	-36.91	-13.00	-23.91	V
898.63	-43.69	4.31	3.00	7.10	-40.89	-13.00	-27.89	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
156.36	-45.81	3.71	3.00	8.52	-41.01	-13.00	-28.01	H
241.26	-46.48	4.29	3.00	6.92	-43.84	-13.00	-30.84	H
559.48	-42.90	3.99	3.00	8.75	-38.13	-13.00	-25.13	V
899.34	-44.67	4.37	3.00	7.04	-42.00	-13.00	-29.00	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
153.21	-47.54	3.85	3.00	8.68	-42.71	-13.00	-29.71	H
235.98	-45.69	4.31	3.00	6.98	-43.01	-13.00	-30.01	H
555.99	-44.53	3.73	3.00	8.49	-39.76	-13.00	-26.76	V
902.76	-45.13	4.30	3.00	7.07	-42.35	-13.00	-29.35	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
151.18	-45.89	4.04	3.00	8.58	-41.35	-13.00	-28.35	H
241.79	-45.84	4.27	3.00	6.98	-43.13	-13.00	-30.13	H
560.63	-41.95	3.89	3.00	8.63	-37.21	-13.00	-24.21	V
903.97	-43.43	4.22	3.00	7.10	-40.55	-13.00	-27.55	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
156.84	-46.08	3.72	3.00	8.55	-41.25	-13.00	-28.25	H
241.68	-46.64	4.15	3.00	6.81	-43.98	-13.00	-30.98	H
553.14	-42.80	3.68	3.00	8.66	-37.81	-13.00	-24.81	V
904.38	-44.48	4.26	3.00	7.05	-41.70	-13.00	-28.70	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
157.39	-47.41	3.97	3.00	8.47	-42.91	-13.00	-29.91	H
233.70	-45.85	4.43	3.00	6.81	-43.47	-13.00	-30.47	H
555.30	-44.46	3.93	3.00	8.37	-40.02	-13.00	-27.02	V
897.29	-45.11	4.23	3.00	6.99	-42.35	-13.00	-29.35	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
154.57	-45.65	3.99	3.00	8.73	-40.92	-13.00	-27.92	H
238.29	-45.72	4.48	3.00	6.98	-43.21	-13.00	-30.21	H
558.83	-42.03	3.69	3.00	8.49	-37.22	-13.00	-24.22	V
899.17	-43.63	4.36	3.00	7.05	-40.94	-13.00	-27.94	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
151.13	-45.87	3.79	3.00	8.42	-41.25	-13.00	-28.25	H
243.09	-46.44	4.13	3.00	6.98	-43.60	-13.00	-30.60	H
556.44	-42.68	3.68	3.00	8.64	-37.72	-13.00	-24.72	V
904.23	-44.64	4.17	3.00	7.12	-41.69	-13.00	-28.69	V

LTE FDD Band 25_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
149.45	-47.41	3.83	3.00	8.54	-42.69	-13.00	-29.69	H
233.53	-45.67	4.23	3.00	6.86	-43.04	-13.00	-30.04	H
558.45	-44.50	3.83	3.00	8.39	-39.95	-13.00	-26.95	V
901.16	-45.20	4.31	3.00	7.03	-42.47	-13.00	-29.47	V

LTE FDD Band 25_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
153.16	-45.88	3.74	3.00	8.44	-41.18	-13.00	-28.18	H
242.36	-45.79	4.44	3.00	6.82	-43.40	-13.00	-30.40	H
561.00	-42.00	3.87	3.00	8.37	-37.50	-13.00	-24.50	V
898.31	-43.34	4.39	3.00	6.78	-40.95	-13.00	-27.95	V

LTE FDD Band 25_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
148.63	-45.78	3.84	3.00	8.73	-40.89	-13.00	-27.89	H
240.54	-46.68	4.41	3.00	6.94	-44.15	-13.00	-31.15	H
557.14	-42.61	4.02	3.00	8.57	-38.06	-13.00	-25.06	V
899.88	-44.46	4.36	3.00	6.84	-41.98	-13.00	-28.98	V

LTE FDD Band 25_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
155.49	-47.56	3.95	3.00	8.40	-43.12	-13.00	-30.12	H
235.43	-45.89	4.26	3.00	7.11	-43.04	-13.00	-30.04	H
556.02	-44.31	3.91	3.00	8.51	-39.70	-13.00	-26.70	V
902.56	-45.23	4.44	3.00	6.89	-42.78	-13.00	-29.78	V

LTE FDD Band 25_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
150.88	-45.90	3.68	3.00	8.73	-40.86	-13.00	-27.86	H
243.31	-46.02	4.17	3.00	6.86	-43.33	-13.00	-30.33	H
553.59	-41.82	3.92	3.00	8.65	-37.09	-13.00	-24.09	V
900.18	-43.54	4.33	3.00	6.91	-40.97	-13.00	-27.97	V

LTE FDD Band 25_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
154.68	-45.99	3.83	3.00	8.67	-41.15	-13.00	-28.15	H
240.23	-46.59	4.32	3.00	6.95	-43.97	-13.00	-30.97	H
559.94	-42.74	3.71	3.00	8.74	-37.70	-13.00	-24.70	V
897.81	-44.53	4.20	3.00	7.01	-41.72	-13.00	-28.72	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
150.69	-47.37	3.67	3.00	8.68	-42.36	-13.00	-29.36	H
236.39	-45.77	4.33	3.00	7.05	-43.06	-13.00	-30.06	H
553.47	-44.42	3.83	3.00	8.41	-39.84	-13.00	-26.84	V
897.70	-45.32	4.44	3.00	6.91	-42.86	-13.00	-29.86	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
154.25	-46.01	3.77	3.00	8.39	-41.39	-13.00	-28.39	H
238.94	-45.81	4.23	3.00	7.12	-42.93	-13.00	-29.93	H
556.39	-41.99	3.84	3.00	8.50	-37.34	-13.00	-24.34	V
900.62	-43.51	4.34	3.00	6.93	-40.92	-13.00	-27.92	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
151.43	-46.04	3.82	3.00	8.66	-41.21	-13.00	-28.21	H
240.57	-46.68	4.18	3.00	6.81	-44.05	-13.00	-31.05	H
557.96	-42.68	3.87	3.00	8.52	-38.02	-13.00	-25.02	V
900.03	-44.55	4.47	3.00	7.06	-41.95	-13.00	-28.95	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
150.72	-47.40	3.74	3.00	8.42	-42.72	-13.00	-29.72	H
235.04	-45.61	4.36	3.00	6.98	-42.99	-13.00	-29.99	H
554.25	-44.57	4.01	3.00	8.75	-39.83	-13.00	-26.83	V
900.84	-45.10	4.15	3.00	7.16	-42.10	-13.00	-29.10	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
152.52	-45.66	3.95	3.00	8.69	-40.91	-13.00	-27.91	H
236.47	-45.76	4.18	3.00	7.16	-42.78	-13.00	-29.78	H
559.79	-41.71	4.00	3.00	8.51	-37.20	-13.00	-24.20	V
906.00	-43.59	4.14	3.00	7.12	-40.62	-13.00	-27.62	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
148.98	-45.82	3.93	3.00	8.75	-41.00	-13.00	-28.00	H
237.34	-46.55	4.27	3.00	6.79	-44.03	-13.00	-31.03	H
555.07	-42.93	3.70	3.00	8.48	-38.15	-13.00	-25.15	V
899.58	-44.65	4.46	3.00	7.15	-41.97	-13.00	-28.97	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
154.05	-47.55	3.81	3.00	8.65	-42.70	-13.00	-29.70	H
243.15	-45.94	4.41	3.00	6.85	-43.50	-13.00	-30.50	H
552.82	-44.31	3.91	3.00	8.73	-39.49	-13.00	-26.49	V
902.30	-45.04	4.20	3.00	6.81	-42.43	-13.00	-29.43	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
151.85	-45.83	4.00	3.00	8.54	-41.29	-13.00	-28.29	H
240.75	-45.99	4.44	3.00	6.89	-43.55	-13.00	-30.55	H
561.16	-41.90	3.97	3.00	8.65	-37.22	-13.00	-24.22	V
900.94	-43.35	4.38	3.00	7.03	-40.69	-13.00	-27.69	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
149.90	-45.94	3.98	3.00	8.64	-41.27	-13.00	-28.27	H
234.90	-46.51	4.21	3.00	6.79	-43.93	-13.00	-30.93	H
557.39	-42.71	3.86	3.00	8.69	-37.88	-13.00	-24.88	V
902.30	-44.54	4.33	3.00	7.14	-41.73	-13.00	-28.73	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
156.51	-47.70	3.83	3.00	8.72	-42.81	-13.00	-29.81	H
237.57	-45.76	4.36	3.00	7.13	-42.98	-13.00	-29.98	H
558.70	-44.58	3.90	3.00	8.48	-40.00	-13.00	-27.00	V
905.66	-45.23	4.10	3.00	7.11	-42.22	-13.00	-29.22	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
151.14	-45.85	3.71	3.00	8.49	-41.07	-13.00	-28.07	H
243.14	-45.72	4.18	3.00	6.80	-43.09	-13.00	-30.09	H
551.88	-41.74	4.02	3.00	8.48	-37.28	-13.00	-24.28	V
898.82	-43.38	4.20	3.00	7.10	-40.47	-13.00	-27.47	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
156.91	-45.87	3.90	3.00	8.73	-41.04	-13.00	-28.04	H
238.17	-46.62	4.12	3.00	6.81	-43.93	-13.00	-30.93	H
553.39	-42.60	3.74	3.00	8.42	-37.92	-13.00	-24.92	V
899.46	-44.49	4.26	3.00	7.03	-41.72	-13.00	-28.72	V

For More than 1 GHZ:*LTE FDD Band 2_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
3715.0	-42.64	5.26	3.00	9.88	-38.02	-13.00	-25.02	H
5572.5	-49.05	6.11	3.00	11.36	-43.80	-13.00	-30.80	H
3715.0	-46.56	5.26	3.00	9.88	-41.94	-13.00	-28.94	V
5572.5	-51.63	6.11	3.00	11.36	-46.38	-13.00	-33.38	V

LTE FDD Band 2_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
3720.0	-43.68	5.32	3.00	10.03	-38.97	-13.00	-25.97	H
5580.0	-47.90	6.19	3.00	11.41	-42.68	-13.00	-29.68	H
3720.0	-47.30	5.32	3.00	10.03	-42.59	-13.00	-29.59	V
5580.0	-50.89	6.19	3.00	11.41	-45.67	-13.00	-32.67	V

LTE FDD Band 2_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
3800.0	-42.95	5.36	3.00	9.62	-38.69	-13.00	-25.69	H
5700.0	-46.26	6.24	3.00	11.46	-41.04	-13.00	-28.04	H
3800.0	-46.92	5.36	3.00	9.62	-42.66	-13.00	-29.66	V
5700.0	-51.21	6.24	3.00	11.46	-45.99	-13.00	-32.99	V

LTE FDD Band 2_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
3715.0	-42.97	5.26	3.00	9.88	-38.35	-13.00	-25.35	H
5572.5	-49.20	6.11	3.00	11.36	-43.95	-13.00	-30.95	H
3715.0	-46.84	5.26	3.00	9.88	-42.22	-13.00	-29.22	V
5572.5	-51.50	6.11	3.00	11.36	-46.25	-13.00	-33.25	V

LTE FDD Band 2_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
3720.0	-43.55	5.32	3.00	10.03	-38.84	-13.00	-25.84	H
5580.0	-47.84	6.19	3.00	11.41	-42.62	-13.00	-29.62	H
3720.0	-47.02	5.32	3.00	10.03	-42.31	-13.00	-29.31	V
5580.0	-51.09	6.19	3.00	11.41	-45.87	-13.00	-32.87	V

LTE FDD Band 2_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
3800.0	-42.91	5.36	3.00	9.62	-38.65	-13.00	-25.65	H
5700.0	-46.18	6.24	3.00	11.46	-40.96	-13.00	-27.96	H
3800.0	-46.61	5.36	3.00	9.62	-42.35	-13.00	-29.35	V
5700.0	-51.16	6.24	3.00	11.46	-45.94	-13.00	-32.94	V

LTE FDD Band 4_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	-48.35	4.62	3.00	9.81	-43.16	-13.00	-30.16	H
5160.0	-52.18	5.94	3.00	10.86	-47.26	-13.00	-34.26	H
3440.0	-52.42	4.62	3.00	9.81	-47.23	-13.00	-34.23	V
5160.0	-54.72	5.94	3.00	10.86	-49.80	-13.00	-36.80	V

LTE FDD Band 4_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
3465.0	-48.90	4.63	3.00	9.84	-43.69	-13.00	-30.69	H
5197.5	-52.33	5.94	3.00	10.86	-47.41	-13.00	-34.41	H
3465.0	-52.77	4.63	3.00	9.84	-47.56	-13.00	-34.56	V
5197.5	-55.25	5.94	3.00	10.86	-50.33	-13.00	-37.33	V

LTE FDD Band 4_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
3490.0	-52.04	4.65	3.00	9.9	-46.79	-13.00	-33.79	H
5235.0	-53.34	5.95	3.00	10.91	-48.38	-13.00	-35.38	H
3490.0	-54.88	4.65	3.00	9.9	-49.63	-13.00	-36.63	V
5235.0	-56.14	5.95	3.00	10.91	-51.18	-13.00	-38.18	V

LTE FDD Band 4_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	-48.25	4.62	3.00	9.81	-43.06	-13.00	-30.06	H
5160.0	-51.85	5.94	3.00	10.86	-46.93	-13.00	-33.93	H
3440.0	-52.63	4.62	3.00	9.81	-47.44	-13.00	-34.44	V
5160.0	-54.86	5.94	3.00	10.86	-49.94	-13.00	-36.94	V

LTE FDD Band 4_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
3465.0	-48.89	4.63	3.00	9.84	-43.68	-13.00	-30.68	H
5197.5	-52.26	5.94	3.00	10.86	-47.34	-13.00	-34.34	H
3465.0	-52.71	4.63	3.00	9.84	-47.50	-13.00	-34.50	V
5197.5	-55.31	5.94	3.00	10.86	-50.39	-13.00	-37.39	V

LTE FDD Band 4_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
3490.0	-52.31	4.65	3.00	9.9	-47.06	-13.00	-34.06	H
5235.0	-53.26	5.95	3.00	10.91	-48.30	-13.00	-35.30	H
3490.0	-55.09	4.65	3.00	9.9	-49.84	-13.00	-36.84	V
5235.0	-55.93	5.95	3.00	10.91	-50.97	-13.00	-37.97	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	-40.93	4.74	3.00	10.45	-35.22	-13.00	-22.22	H
2487.00	-46.70	5.65	3.00	12.32	-40.03	-13.00	-27.03	H
1658.00	-44.22	4.74	3.00	10.45	-38.51	-13.00	-25.51	V
2487.00	-49.62	5.65	3.00	12.32	-42.95	-13.00	-29.95	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	-39.82	5.98	3.00	11.12	-34.68	-13.00	-21.68	H
2509.50	-47.04	6.45	3.00	12.02	-41.47	-13.00	-28.47	H
1673.00	-42.82	5.98	3.00	11.12	-37.68	-13.00	-24.68	V
2509.50	-47.76	6.45	3.00	12.02	-42.19	-13.00	-29.19	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	-41.01	5.95	3.00	9.98	-36.98	-13.00	-23.98	H
2532.00	-47.00	6.63	3.00	11.66	-41.97	-13.00	-28.97	H
1688.00	-43.68	5.95	3.00	9.98	-39.65	-13.00	-26.65	V
2532.00	-49.33	6.63	3.00	11.66	-44.30	-13.00	-31.30	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	-40.55	4.74	3.00	10.45	-34.84	-13.00	-21.84	H
2487.00	-46.74	5.65	3.00	12.32	-40.07	-13.00	-27.07	H
1658.00	-44.33	4.74	3.00	10.45	-38.62	-13.00	-25.62	V
2487.00	-49.69	5.65	3.00	12.32	-43.02	-13.00	-30.02	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	-46.99	6.45	3.00	12.02	-41.42	-13.00	-28.42	H
1673.00	-43.06	5.98	3.00	11.12	-37.92	-13.00	-24.92	V
2509.50	-47.69	6.45	3.00	12.02	-42.12	-13.00	-29.12	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	-41.07	5.95	3.00	9.98	-37.04	-13.00	-24.04	H
2532.00	-47.02	6.63	3.00	11.66	-41.99	-13.00	-28.99	H
1688.00	-43.70	5.95	3.00	9.98	-39.67	-13.00	-26.67	V
2532.00	-49.21	6.63	3.00	11.66	-44.18	-13.00	-31.18	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	-50.05	4.92	3.00	10.45	-44.52	-13.00	-31.52	H
2346.0	-47.19	5.78	3.00	12.32	-40.65	-13.00	-27.65	H
1564.0	-51.19	4.92	3.00	10.45	-45.66	-13.00	-32.66	V
2346.0	-50.15	5.78	3.00	12.32	-43.61	-13.00	-30.61	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	-52.02	5.12	3.00	9.98	-47.16	-13.00	-34.16	H
2346.0	-45.45	5.93	3.00	11.66	-39.72	-13.00	-26.72	H
1564.0	-53.49	5.12	3.00	9.98	-48.63	-13.00	-35.63	V
2346.0	-50.61	5.93	3.00	11.66	-44.88	-13.00	-31.88	V

LTE FDD Band 25_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
3715.00	-42.97	5.26	3.00	9.88	-38.35	-13.00	-25.35	H
5572.50	-49.20	6.11	3.00	11.36	-43.95	-13.00	-30.95	H
3715.00	-46.72	5.26	3.00	9.88	-42.10	-13.00	-29.10	V
5572.50	-51.87	6.11	3.00	11.36	-46.62	-13.00	-33.62	V

LTE FDD Band 25_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
3765.00	-43.62	5.32	3.00	10.03	-38.91	-13.00	-25.91	H
5647.50	-47.77	6.19	3.00	11.41	-42.55	-13.00	-29.55	H
3765.00	-47.07	5.32	3.00	10.03	-42.36	-13.00	-29.36	V
5647.50	-51.20	6.19	3.00	11.41	-45.98	-13.00	-32.98	V

LTE FDD Band 25_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
3810.00	-42.76	5.36	3.00	9.62	-38.50	-13.00	-25.50	H
5715.00	-46.18	6.24	3.00	11.46	-40.96	-13.00	-27.96	H
3810.00	-46.61	5.36	3.00	9.62	-42.35	-13.00	-29.35	V
5715.00	-51.44	6.24	3.00	11.46	-46.22	-13.00	-33.22	V

LTE FDD Band 25_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
3715.00	-42.95	5.26	3.00	9.88	-38.33	-13.00	-25.33	H
5572.50	-49.31	6.11	3.00	11.36	-44.06	-13.00	-31.06	H
3715.00	-46.78	5.26	3.00	9.88	-42.16	-13.00	-29.16	V
5572.50	-51.97	6.11	3.00	11.36	-46.72	-13.00	-33.72	V

LTE FDD Band 25_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
3765.00	-43.52	5.32	3.00	10.03	-38.81	-13.00	-25.81	H
5647.50	-47.98	6.19	3.00	11.41	-42.76	-13.00	-29.76	H
3765.00	-47.23	5.32	3.00	10.03	-42.52	-13.00	-29.52	V
5647.50	-51.22	6.19	3.00	11.41	-46.00	-13.00	-33.00	V

LTE FDD Band 25_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
3810.00	-42.93	5.36	3.00	9.62	-38.67	-13.00	-25.67	H
5715.00	-46.23	6.24	3.00	11.46	-41.01	-13.00	-28.01	H
3810.00	-46.86	5.36	3.00	9.62	-42.60	-13.00	-29.60	V
5715.00	-51.45	6.24	3.00	11.46	-46.23	-13.00	-33.23	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1633.00	-41.35	4.62	3.00	9.81	-36.16	-13.00	-23.16	H
2449.50	-47.37	5.94	3.00	10.86	-42.45	-13.00	-29.45	H
1633.00	-43.73	4.62	3.00	9.81	-38.54	-13.00	-25.54	V
2449.50	-50.12	5.94	3.00	10.86	-45.20	-13.00	-32.20	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1638.00	-40.00	4.63	3.00	9.84	-34.79	-13.00	-21.79	H
2457.00	-46.95	5.94	3.00	10.86	-42.03	-13.00	-29.03	H
1638.00	-43.18	4.63	3.00	9.84	-37.97	-13.00	-24.97	V
2457.00	-47.32	5.94	3.00	10.86	-42.40	-13.00	-29.40	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1643.00	-41.11	4.65	3.00	9.90	-35.86	-13.00	-22.86	H
2464.50	-47.08	5.95	3.00	10.91	-42.12	-13.00	-29.12	H
1643.00	-43.85	4.65	3.00	9.90	-38.60	-13.00	-25.60	V
2464.50	-49.33	5.95	3.00	10.91	-44.37	-13.00	-31.37	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1633.00	-41.26	4.62	3.00	9.81	-36.07	-13.00	-23.07	H
2449.50	-47.50	5.94	3.00	10.86	-42.58	-13.00	-29.58	H
1633.00	-43.68	4.62	3.00	9.81	-38.49	-13.00	-25.49	V
2449.50	-50.32	5.94	3.00	10.86	-45.40	-13.00	-32.40	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1638.00	-39.75	4.63	3.00	9.84	-34.54	-13.00	-21.54	H
2457.00	-46.88	5.94	3.00	10.86	-41.96	-13.00	-28.96	H
1638.00	-43.20	4.63	3.00	9.84	-37.99	-13.00	-24.99	V
2457.00	-47.61	5.94	3.00	10.86	-42.69	-13.00	-29.69	V

LTE FDD Band 26(814-824MHz)_Channel Bandwidth 5MHz_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
1643.00	-41.13	4.65	3.00	9.90	-35.88	-13.00	-22.88	H
2464.50	-47.00	5.95	3.00	10.91	-42.04	-13.00	-29.04	H
1643.00	-43.60	4.65	3.00	9.90	-38.35	-13.00	-25.35	V
2464.50	-49.37	5.95	3.00	10.91	-44.41	-13.00	-31.41	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
1663.00	-41.22	4.62	3.00	9.81	-36.03	-13.00	-23.03	H
2494.50	-47.19	5.94	3.00	10.86	-42.27	-13.00	-29.27	H
1663.00	-43.90	4.62	3.00	9.81	-38.71	-13.00	-25.71	V
2494.50	-50.39	5.94	3.00	10.86	-45.47	-13.00	-32.47	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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	-39.75	4.63	3.00	9.84	-34.54	-13.00	-21.54	H
2509.50	-47.27	5.94	3.00	10.86	-42.35	-13.00	-29.35	H
1673.00	-43.25	4.63	3.00	9.84	-38.04	-13.00	-25.04	V
2509.50	-47.42	5.94	3.00	10.86	-42.50	-13.00	-29.50	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
1683.00	-40.95	4.65	3.00	9.90	-35.70	-13.00	-22.70	H
2524.50	-46.91	5.95	3.00	10.91	-41.95	-13.00	-28.95	H
1683.00	-43.79	4.65	3.00	9.90	-38.54	-13.00	-25.54	V
2524.50	-49.32	5.95	3.00	10.91	-44.36	-13.00	-31.36	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
1663.00	-41.13	4.62	3.00	9.81	-35.94	-13.00	-22.94	H
2494.50	-47.38	5.94	3.00	10.86	-42.46	-13.00	-29.46	H
1663.00	-43.89	4.62	3.00	9.81	-38.70	-13.00	-25.70	V
2494.50	-50.38	5.94	3.00	10.86	-45.46	-13.00	-32.46	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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	-39.97	4.63	3.00	9.84	-34.76	-13.00	-21.76	H
2509.50	-47.27	5.94	3.00	10.86	-42.35	-13.00	-29.35	H
1673.00	-43.24	4.63	3.00	9.84	-38.03	-13.00	-25.03	V
2509.50	-47.31	5.94	3.00	10.86	-42.39	-13.00	-29.39	V

LTE FDD Band 26(824-849MHz)_Channel Bandwidth 15MHz_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
1683.00	-41.09	4.65	3.00	9.90	-35.84	-13.00	-22.84	H
2524.50	-46.99	5.95	3.00	10.91	-42.03	-13.00	-29.03	H
1683.00	-43.65	4.65	3.00	9.90	-38.40	-13.00	-25.40	V
2524.50	-49.48	5.95	3.00	10.91	-44.52	-13.00	-31.52	V

Notes:

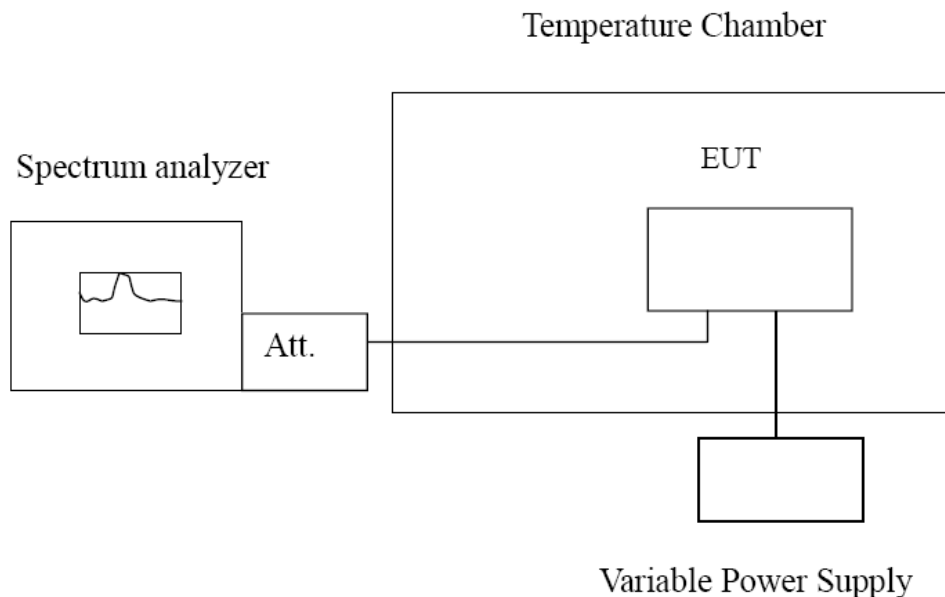
1. All channel bandwidth were tested, the report recorded the worst data.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$
3. $ERP = EIRP - 2.15dBi$ as EIRP by subtracting the gain of the dipole.
4. Margin = EIRP – Limit
5. We measured all modes and only recorded the worst case.

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 ($\pm 15\%$) 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 13, LTE FDD Band 25, LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 13, LTE FDD Band 25, LTE FDD Band 26.

Temperature	24.5°C	Humidity	53.7%
Test Engineer	Oliver Ou	Configurations	LTE

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

<i>LTE FDD Band 2</i>					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	81	0.043	±2.50	PASS
3.7	20	93	0.049	±2.50	PASS
4.2	20	61	0.032	±2.50	PASS
3.7	-30	94	0.050	±2.50	PASS
3.7	-20	29	0.015	±2.50	PASS
3.7	-10	79	0.042	±2.50	PASS
3.7	0	81	0.043	±2.50	PASS
3.7	10	57	0.030	±2.50	PASS
3.7	20	65	0.035	±2.50	PASS
3.7	30	50	0.027	±2.50	PASS
3.7	40	88	0.047	±2.50	PASS
3.7	50	7	0.004	±2.50	PASS

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

<i>LTE FDD Band 2</i>					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	53	0.028	±2.50	PASS
3.7	20	2	0.001	±2.50	PASS
4.2	20	69	0.037	±2.50	PASS
3.7	-30	19	0.010	±2.50	PASS
3.7	-20	53	0.028	±2.50	PASS
3.7	-10	79	0.042	±2.50	PASS
3.7	0	30	0.016	±2.50	PASS
3.7	10	71	0.038	±2.50	PASS
3.7	20	64	0.034	±2.50	PASS
3.7	30	65	0.035	±2.50	PASS
3.7	40	81	0.043	±2.50	PASS
3.7	50	63	0.034	±2.50	PASS

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

<i>LTE FDD Band 4</i>					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	6	0.003	±2.50	PASS
3.7	20	51	0.029	±2.50	PASS
4.2	20	62	0.035	±2.50	PASS
3.7	-30	84	0.048	±2.50	PASS
3.7	-20	66	0.038	±2.50	PASS
3.7	-10	63	0.036	±2.50	PASS
3.7	0	69	0.039	±2.50	PASS
3.7	10	89	0.051	±2.50	PASS
3.7	20	21	0.012	±2.50	PASS
3.7	30	47	0.027	±2.50	PASS
3.7	40	26	0.015	±2.50	PASS
3.7	50	47	0.027	±2.50	PASS

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

<i>LTE FDD Band 4</i>					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	54	0.031	±2.50	PASS
3.7	20	74	0.042	±2.50	PASS
4.2	20	45	0.026	±2.50	PASS
3.7	-30	52	0.030	±2.50	PASS
3.7	-20	85	0.049	±2.50	PASS
3.7	-10	7	0.004	±2.50	PASS
3.7	0	70	0.040	±2.50	PASS
3.7	10	99	0.057	±2.50	PASS
3.7	20	81	0.046	±2.50	PASS
3.7	30	49	0.028	±2.50	PASS
3.7	40	4	0.002	±2.50	PASS
3.7	50	6	0.003	±2.50	PASS

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

<i>LTE FDD Band 5</i>					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	59	0.072	±2.50	PASS
3.7	20	60	0.073	±2.50	PASS
4.2	20	42	0.051	±2.50	PASS
3.7	-30	37	0.045	±2.50	PASS
3.7	-20	19	0.023	±2.50	PASS
3.7	-10	1	0.001	±2.50	PASS
3.7	0	57	0.069	±2.50	PASS
3.7	10	74	0.090	±2.50	PASS
3.7	20	4	0.005	±2.50	PASS
3.7	30	58	0.070	±2.50	PASS
3.7	40	77	0.093	±2.50	PASS
3.7	50	28	0.034	±2.50	PASS

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

<i>LTE FDD Band 5</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>
3.4	20	48	0.058	±2.50	PASS
3.7	20	13	0.016	±2.50	PASS
4.2	20	3	0.004	±2.50	PASS
3.7	-30	9	0.011	±2.50	PASS
3.7	-20	75	0.091	±2.50	PASS
3.7	-10	60	0.073	±2.50	PASS
3.7	0	64	0.078	±2.50	PASS
3.7	10	79	0.096	±2.50	PASS
3.7	20	89	0.108	±2.50	PASS
3.7	30	92	0.112	±2.50	PASS
3.7	40	75	0.091	±2.50	PASS
3.7	50	51	0.062	±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>
3.4	20	25	0.032	2.50	PASS
3.7	20	11	0.014	2.50	PASS
4.2	20	60	0.077	2.50	PASS
3.7	-30	47	0.060	2.50	PASS
3.7	-20	62	0.079	2.50	PASS
3.7	-10	65	0.083	2.50	PASS
3.7	0	35	0.045	2.50	PASS
3.7	10	2	0.003	2.50	PASS
3.7	20	26	0.033	2.50	PASS
3.7	30	92	0.118	2.50	PASS
3.7	40	90	0.115	2.50	PASS
3.7	50	96	0.123	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>
3.4	20	50	0.064	2.50	PASS
3.7	20	54	0.069	2.50	PASS
4.2	20	22	0.028	2.50	PASS
3.7	-30	51	0.065	2.50	PASS
3.7	-20	37	0.047	2.50	PASS
3.7	-10	23	0.029	2.50	PASS
3.7	0	50	0.064	2.50	PASS
3.7	10	9	0.012	2.50	PASS
3.7	20	80	0.102	2.50	PASS
3.7	30	94	0.120	2.50	PASS
3.7	40	19	0.024	2.50	PASS
3.7	50	68	0.087	2.50	PASS

LTE Band 25, QPSK, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 25					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	35	0.019	±2.50	PASS
3.7	20	90	0.048	±2.50	PASS
4.2	20	40	0.021	±2.50	PASS
3.7	-30	53	0.028	±2.50	PASS
3.7	-20	99	0.053	±2.50	PASS
3.7	-10	4	0.002	±2.50	PASS
3.7	0	46	0.024	±2.50	PASS
3.7	10	92	0.049	±2.50	PASS
3.7	20	90	0.048	±2.50	PASS
3.7	30	9	0.005	±2.50	PASS
3.7	40	22	0.012	±2.50	PASS
3.7	50	15	0.008	±2.50	PASS

LTE Band 25, 16QAM, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 25					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	52	0.028	±2.50	PASS
3.7	20	41	0.022	±2.50	PASS
4.2	20	87	0.046	±2.50	PASS
3.7	-30	39	0.021	±2.50	PASS
3.7	-20	35	0.019	±2.50	PASS
3.7	-10	30	0.016	±2.50	PASS
3.7	0	35	0.019	±2.50	PASS
3.7	10	51	0.027	±2.50	PASS
3.7	20	43	0.023	±2.50	PASS
3.7	30	48	0.025	±2.50	PASS
3.7	40	35	0.019	±2.50	PASS
3.7	50	62	0.033	±2.50	PASS

LTE Band 26<814 – 824 MHz>, QPSK, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 26					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	37	0.045	±2.50	PASS
3.7	20	20	0.024	±2.50	PASS
4.2	20	92	0.112	±2.50	PASS
3.7	-30	52	0.063	±2.50	PASS
3.7	-20	80	0.098	±2.50	PASS
3.7	-10	2	0.002	±2.50	PASS
3.7	0	39	0.048	±2.50	PASS
3.7	10	52	0.063	±2.50	PASS
3.7	20	79	0.096	±2.50	PASS
3.7	30	36	0.044	±2.50	PASS
3.7	40	73	0.089	±2.50	PASS
3.7	50	16	0.020	±2.50	PASS

LTE Band 26<814 – 824 MHz>, 16QAM, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 26					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	57	0.070	±2.50	PASS
3.7	20	15	0.018	±2.50	PASS
4.2	20	6	0.007	±2.50	PASS
3.7	-30	17	0.021	±2.50	PASS
3.7	-20	44	0.054	±2.50	PASS
3.7	-10	17	0.021	±2.50	PASS
3.7	0	61	0.074	±2.50	PASS
3.7	10	70	0.085	±2.50	PASS
3.7	20	25	0.031	±2.50	PASS
3.7	30	66	0.081	±2.50	PASS
3.7	40	15	0.018	±2.50	PASS
3.7	50	66	0.081	±2.50	PASS

LTE Band 26<824 – 849 MHz >, QPSK, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 26					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	88	0.105	±2.50	PASS
3.7	20	14	0.017	±2.50	PASS
4.2	20	30	0.036	±2.50	PASS
3.7	-30	67	0.080	±2.50	PASS
3.7	-20	26	0.031	±2.50	PASS
3.7	-10	84	0.100	±2.50	PASS
3.7	0	84	0.100	±2.50	PASS
3.7	10	37	0.044	±2.50	PASS
3.7	20	99	0.118	±2.50	PASS
3.7	30	48	0.057	±2.50	PASS
3.7	40	44	0.053	±2.50	PASS
3.7	50	82	0.098	±2.50	PASS

LTE Band 26<824 – 849 MHz >, 16QAM, 1.4MHz bandwidth (worst case of all bandwidths and modulation type)

LTE FDD Band 26					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.4	20	30	0.036	±2.50	PASS
3.7	20	39	0.047	±2.50	PASS
4.2	20	90	0.108	±2.50	PASS
3.7	-30	16	0.019	±2.50	PASS
3.7	-20	62	0.074	±2.50	PASS
3.7	-10	76	0.091	±2.50	PASS
3.7	0	33	0.039	±2.50	PASS
3.7	10	79	0.094	±2.50	PASS
3.7	20	77	0.092	±2.50	PASS
3.7	30	13	0.016	±2.50	PASS
3.7	40	97	0.116	±2.50	PASS
3.7	50	63	0.075	±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: GTS20210805012-1-3.

6 EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: GTS20210805012-1-1.

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