



TEST REPORT

No. I21Z70186-EMC13

for

Samsung Electronics Co., Ltd.

Notebook PC

XE315XDA

with

FCC ID: ZCAXE315XDA

Hardware Version: REV1.0

Software Version: Chrome

Issued Date: 2021-07-23

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z70186-EMC13	Rev.0	1 st edition	2021-07-14
I21Z70186-EMC13	Rev.1	Removed the 64QAM results for radiated power	2021-07-23
I21Z70186-EMC13	Rev.2	Removed LTE band17 results	2021-07-23

Note: the latest revision of the test report supersedes all previous versions.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 2: CTTL (Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China 100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2021-05-06

Testing End Date: 2021-07-12

1.5. Signature



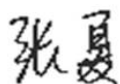
Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

Deputy Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

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Postal Code: /
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2.2. Manufacturer Information

Company Name: Samsung Electronics. Co., Ltd.
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Youngtong gu, Suwon city 443 742, Korea
City: /
Postal Code: /
Country: /
Contact: Sunghoon Cho
Email: ggobi.cho@samsung.com
Telephone: +82-10-2722-4159

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Notebook PC
Model Name	XE315XDA
FCC ID	ZCAXE315XDA

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT47a	2170186UT47a	REV1.0	Chrome
UT24a	2170186UT24a	REV1.0	Chrome

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-19 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-19 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-19 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01

5. Laboratory Environment

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber SAC-1 (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Fully-anechoic chamber FAC-3 (8.6 meters×6.1 meters×3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. Summary Of Test Result

LTE Band 2

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	24.232	P
2	Emission Limit	2.1051/24.238	P

LTE Band 4

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 5

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	22.913	P
2	Emission Limit	2.1051/22.917	P

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 12

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 13

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 30

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 38

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 41

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

LTE Band 66

Items	Test Name	Clause in FCC rules	Verdict
1	Radiated Power(ERP/EIRP)	27.50	P
2	Emission Limit	2.1051/27.53	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

Note:

There are two vendors of the antenna, SPEED and AWAN. Both antennas were tested separately

7. Test Equipments Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
EMI Antenna	9117	167	Schwarzbeck	2021-08-19	1 year
EMI Antenna	3117	00058889	ETS-Lindgren	2021-09-22	1 year
EMI Antenna	3117	00119021	ETS-Lindgren	2022-02-02	1 year
Test Receiver	E4440A	MY48250642	Agilent	2022-03-04	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2021-12-01	1 year
EMI Antenna	VULB9163	9163-301	Schwarzbeck	2021-08-04	1 year
Signal Generator	N5183A	MY49060065	Agilent	2021-07-29	1 year
Power Amplifier	5S1G4	0341863	AR	/	/

Annex A: Measurement Results

A.1 Radiated Power (ERP/EIRP)

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Description

This is the test for the maximum radiated power from the EUT.

FDD Band 2: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

FDD Band 4/66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

FDD Band 5 (824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

FDD Band 12: Part 27.50(c) (10) specifies "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

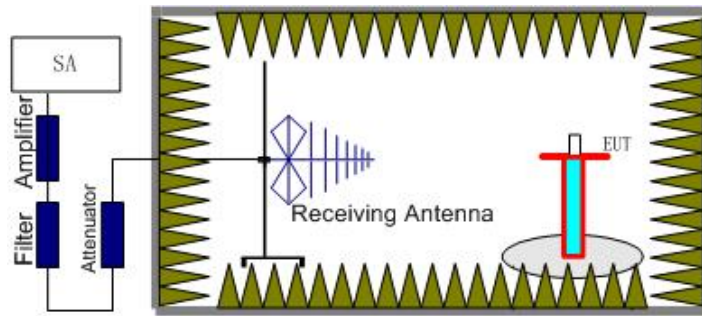
FDD Band 13: Part 27.50(b) specifies "Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP".

FDD Band 30: Rule Part 27.50(a)(3) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth."

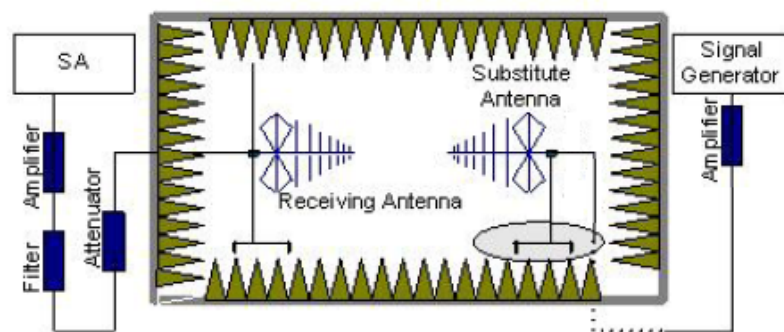
A.1.3 Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

1. EUT was placed on a 1.5-meter-high non-conductive stand at a 3-meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with rms detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.1.4 Measurement result

SPEED

LTE Band 2-EIRP

Limits: $\leq 33\text{dBm}$ (2W)

LTE Band 2_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-24.50	2.92	43.75	4.87	21.20	33.00	11.80	V
1880.00	-24.42	2.85	43.75	4.82	21.30	33.00	11.70	V
1909.30	-25.60	2.87	43.77	4.76	20.06	33.00	12.94	V

LTE Band 2_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-24.64	2.87	43.75	4.87	21.11	33.00	11.89	V
1880.00	-24.36	2.85	43.75	4.82	21.36	33.00	11.64	V
1908.50	-25.50	2.89	43.78	4.76	20.15	33.00	12.85	V

LTE Band 2_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-24.74	2.87	43.75	4.87	21.01	33.00	11.99	V
1880.00	-24.52	2.85	43.75	4.82	21.20	33.00	11.80	V
1907.50	-25.69	2.84	43.77	4.77	20.01	33.00	12.99	V

LTE Band 2_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-25.09	2.88	43.74	4.86	20.63	33.00	12.37	V
1880.00	-24.49	2.85	43.75	4.82	21.23	33.00	11.77	V
1905.00	-25.84	2.87	43.77	4.77	19.83	33.00	13.17	V

LTE Band 2_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-25.13	2.87	43.75	4.86	20.61	33.00	12.39	V
1880.00	-24.45	2.85	43.75	4.82	21.27	33.00	11.73	V
1902.50	-25.94	2.86	43.77	4.78	19.75	33.00	13.25	V

LTE Band 2_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-24.27	2.86	43.75	4.85	21.47	33.00	11.53	V
1880.00	-24.59	2.85	43.75	4.82	21.13	33.00	11.87	V
1900.00	-25.53	2.87	43.77	4.78	20.15	33.00	12.85	V

LTE Band 2_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-25.26	2.92	43.75	4.87	20.44	33.00	12.56	V
1880.00	-25.29	2.85	43.75	4.82	20.43	33.00	12.57	V
1909.30	-26.26	2.87	43.77	4.76	19.40	33.00	13.60	V

LTE Band 2_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-25.37	2.87	43.75	4.87	20.38	33.00	12.62	V
1880.00	-25.12	2.85	43.75	4.82	20.60	33.00	12.40	V
1908.50	-26.29	2.89	43.78	4.76	19.36	33.00	13.64	V

LTE Band 2_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-25.53	2.87	43.75	4.87	20.22	33.00	12.78	V
1880.00	-25.33	2.85	43.75	4.82	20.39	33.00	12.61	V
1907.50	-26.41	2.84	43.77	4.77	19.29	33.00	13.71	V

LTE Band 2_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-25.79	2.88	43.74	4.86	19.93	33.00	13.07	V
1880.00	-25.21	2.85	43.75	4.82	20.51	33.00	12.49	V
1905.00	-26.67	2.87	43.77	4.77	19.00	33.00	14.00	V

LTE Band 2_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-25.87	2.87	43.75	4.86	19.87	33.00	13.13	V
1880.00	-25.23	2.85	43.75	4.82	20.49	33.00	12.51	V
1902.50	-26.78	2.86	43.77	4.78	18.91	33.00	14.09	V

LTE Band 2_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-24.98	2.86	43.75	4.85	20.76	33.00	12.24	V
1880.00	-25.44	2.85	43.75	4.82	20.28	33.00	12.72	V
1900.00	-26.25	2.87	43.77	4.78	19.43	33.00	13.57	V

LTE Band 4- EIRP

Limits: ≤30dBm (1W)

LTE Band 4_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-24.77	3.17	44.10	5.12	21.28	30.00	8.72	H
1732.50	-24.56	3.33	44.14	5.08	21.33	30.00	8.67	H
1754.30	-22.76	3.76	44.14	5.04	22.66	30.00	7.34	H

LTE Band 4_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-24.48	3.40	44.10	5.12	21.34	30.00	8.66	H
1732.50	-24.62	3.33	44.14	5.08	21.27	30.00	8.73	H
1753.50	-22.74	3.80	44.13	5.04	22.63	30.00	7.37	H

LTE Band 4_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-24.08	3.66	44.10	5.12	21.48	30.00	8.52	H
1732.50	-24.60	3.33	44.14	5.08	21.29	30.00	8.71	H
1752.50	-22.83	3.82	44.14	5.05	22.54	30.00	7.46	H

LTE Band 4_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-23.97	3.56	44.10	5.11	21.68	30.00	8.32	H
1732.50	-24.59	3.33	44.14	5.08	21.30	30.00	8.70	H
1750.00	-23.87	3.00	44.15	5.05	22.33	30.00	7.67	H

LTE Band 4_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-24.11	3.47	44.11	5.11	21.64	30.00	8.36	H
1732.50	-24.59	3.33	44.14	5.08	21.30	30.00	8.70	H
1747.50	-23.85	3.34	44.15	5.05	22.01	30.00	7.99	H

LTE Band 4_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-24.15	3.37	44.11	5.10	21.69	30.00	8.31	H
1732.50	-24.57	3.33	44.14	5.08	21.32	30.00	8.68	H
1745.00	-23.61	3.68	44.16	5.06	21.93	30.00	8.07	H

LTE Band 4_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-25.56	3.17	44.10	5.12	20.49	30.00	9.51	H
1732.50	-25.33	3.33	44.14	5.08	20.56	30.00	9.44	H
1754.30	-23.53	3.76	44.14	5.04	21.89	30.00	8.11	H

LTE Band 4_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-25.25	3.40	44.10	5.12	20.57	30.00	9.43	H
1732.50	-25.41	3.33	44.14	5.08	20.48	30.00	9.52	H
1753.50	-23.54	3.80	44.13	5.04	21.83	30.00	8.17	H

LTE Band 4_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-24.88	3.66	44.10	5.12	20.68	30.00	9.32	H
1732.50	-25.38	3.33	44.14	5.08	20.51	30.00	9.49	H
1752.50	-23.61	3.82	44.14	5.05	21.76	30.00	8.24	H

LTE Band 4_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-24.84	3.56	44.10	5.11	20.81	30.00	9.19	H
1732.50	-25.44	3.33	44.14	5.08	20.45	30.00	9.55	V
1750.00	-24.71	3.00	44.15	5.05	21.49	30.00	8.51	H

LTE Band 4_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-24.92	3.47	44.11	5.11	20.83	30.00	9.17	H
1732.50	-25.37	3.33	44.14	5.08	20.52	30.00	9.48	H
1747.50	-24.68	3.34	44.15	5.05	21.18	30.00	8.82	H

LTE Band 4_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-24.99	3.37	44.11	5.10	20.85	30.00	9.15	H
1732.50	-25.42	3.33	44.14	5.08	20.47	30.00	9.53	H
1745.00	-24.44	3.68	44.16	5.06	21.10	30.00	8.90	H

LTE Band 5-ERP

Limits: ≤38.45dBm (7W)

LTE Band 5_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-22.03	2.26	45.79	0.95	2.15	20.30	38.45	18.15	H
836.50	-22.50	2.26	45.66	0.82	2.15	19.57	38.45	18.88	H
848.30	-22.36	2.27	45.55	0.80	2.15	19.57	38.45	18.88	H

LTE Band 5_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-22.07	2.26	45.79	0.94	2.15	20.25	38.45	18.20	H
836.50	-22.39	2.26	45.66	0.82	2.15	19.68	38.45	18.77	H
847.50	-22.25	2.27	45.56	0.81	2.15	19.70	38.45	18.75	H

LTE Band 5_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-22.08	2.25	45.77	0.93	2.15	20.22	38.45	18.23	H
836.50	-22.43	2.26	45.66	0.82	2.15	19.64	38.45	18.81	H
846.50	-22.31	2.26	45.56	0.82	2.15	19.66	38.45	18.79	H

LTE Band 5_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-22.14	2.25	45.77	0.90	2.15	20.13	38.45	18.32	H
836.50	-22.42	2.26	45.66	0.82	2.15	19.65	38.45	18.80	H
844.00	-22.59	2.26	45.59	0.82	2.15	19.41	38.45	19.04	H

LTE Band 5_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-22.77	2.26	45.79	0.95	2.15	19.56	38.45	18.89	H
836.50	-23.20	2.26	45.66	0.82	2.15	18.87	38.45	19.58	H
848.30	-23.08	2.27	45.55	0.80	2.15	18.85	38.45	19.60	H

LTE Band 5_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-22.74	2.26	45.79	0.94	2.15	19.58	38.45	18.87	H
836.50	-23.17	2.26	45.66	0.82	2.15	18.90	38.45	19.55	H
847.50	-22.95	2.27	45.56	0.81	2.15	19.00	38.45	19.45	H

LTE Band 5_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-22.84	2.25	45.77	0.93	2.15	19.46	38.45	18.99	H
836.50	-23.15	2.26	45.66	0.82	2.15	18.92	38.45	19.53	H
846.50	-23.06	2.26	45.56	0.82	2.15	18.91	38.45	19.54	H

LTE Band 5_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-22.95	2.25	45.77	0.90	2.15	19.32	38.45	19.13	H
836.50	-23.16	2.26	45.66	0.82	2.15	18.91	38.45	19.54	H
844.00	-23.30	2.26	45.59	0.82	2.15	18.70	38.45	19.75	H

LTE Band 7- EIRP

Limits: ≤ 33 dBm (2W)

LTE Band 7_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-21.92	3.58	45.68	6.10	26.28	33.00	6.72	H
2535.00	-20.92	3.63	44.82	6.16	26.43	33.00	6.57	H
2567.50	-22.42	3.65	44.92	6.22	25.07	33.00	7.93	H

LTE Band 7_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-21.77	3.59	45.64	6.11	26.39	33.00	6.61	H
2535.00	-20.97	3.63	44.82	6.16	26.38	33.00	6.62	H
2565.00	-22.41	3.65	44.97	6.22	25.13	33.00	7.87	H

LTE Band 7_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-20.96	3.59	44.92	6.11	26.48	33.00	6.52	H
2535.00	-20.95	3.63	44.82	6.16	26.40	33.00	6.60	H
2562.50	-23.06	3.65	45.67	6.21	25.17	33.00	7.83	H

LTE Band 7_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-21.44	3.58	45.36	6.12	26.46	33.00	6.54	H
2535.00	-20.97	3.63	44.82	6.16	26.38	33.00	6.62	H
2560.00	-23.25	3.64	45.98	6.21	25.30	33.00	7.70	H

LTE Band 7_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-22.67	3.58	45.68	6.10	25.53	33.00	7.47	H
2535.00	-21.74	3.63	44.82	6.16	25.61	33.00	7.39	H
2567.50	-23.13	3.65	44.92	6.22	24.36	33.00	8.64	H

LTE Band 7_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-22.50	3.59	45.64	6.11	25.66	33.00	7.34	H
2535.00	-21.69	3.63	44.82	6.16	25.66	33.00	7.34	H
2565.00	-23.19	3.65	44.97	6.22	24.35	33.00	8.65	H

LTE Band 7_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-21.75	3.59	44.92	6.11	25.69	33.00	7.31	H
2535.00	-21.79	3.63	44.82	6.16	25.56	33.00	7.44	H
2562.50	-23.78	3.65	45.67	6.21	24.45	33.00	8.55	H

LTE Band 7_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-22.20	3.58	45.36	6.12	25.70	33.00	7.30	H
2535.00	-21.76	3.63	44.82	6.16	25.59	33.00	7.41	H
2560.00	-24.04	3.64	45.98	6.21	24.51	33.00	8.49	H

LTE Band 12 - ERP

Limits: ≤34.77dBm (3W)

LTE Band 12_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-22.21	1.90	44.66	0.77	2.15	19.17	34.77	15.60	H
707.50	-22.13	1.91	44.94	0.62	2.15	19.37	34.77	15.40	H
715.30	-22.30	1.92	45.26	0.50	2.15	19.39	34.77	15.38	H

LTE Band 12_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-21.96	1.90	44.68	0.76	2.15	19.43	34.77	15.34	H
707.50	-22.04	1.91	44.94	0.62	2.15	19.46	34.77	15.31	H
714.50	-22.09	1.92	45.26	0.50	2.15	19.60	34.77	15.17	H

LTE Band 12_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-21.99	1.90	44.81	0.74	2.15	19.51	34.77	15.26	H
707.50	-22.01	1.91	44.94	0.62	2.15	19.49	34.77	15.28	H
713.50	-21.96	1.92	45.22	0.50	2.15	19.69	34.77	15.08	H

LTE Band 12_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-22.04	1.91	44.93	0.70	2.15	19.53	34.77	15.24	H
707.50	-22.06	1.91	44.94	0.62	2.15	19.44	34.77	15.33	H
711.00	-22.00	1.92	45.19	0.53	2.15	19.65	34.77	15.12	H

LTE Band 12_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-22.92	1.90	44.66	0.77	2.15	18.46	34.77	16.31	H
707.50	-22.81	1.91	44.94	0.62	2.15	18.69	34.77	16.08	H
715.30	-22.95	1.92	45.26	0.50	2.15	18.74	34.77	16.03	H

LTE Band 12_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-22.61	1.90	44.68	0.76	2.15	18.78	34.77	15.99	H
707.50	-22.69	1.91	44.94	0.62	2.15	18.81	34.77	15.96	H
714.50	-22.74	1.92	45.26	0.50	2.15	18.95	34.77	15.82	H

LTE Band 12_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-22.64	1.90	44.81	0.74	2.15	18.86	34.77	15.91	H
707.50	-22.69	1.91	44.94	0.62	2.15	18.81	34.77	15.96	H
713.50	-22.61	1.92	45.22	0.50	2.15	19.04	34.77	15.73	H

LTE Band 12_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-22.66	1.91	44.93	0.70	2.15	18.91	34.77	15.86	H
707.50	-22.74	1.91	44.94	0.62	2.15	18.76	34.77	16.01	H
711.00	-22.67	1.92	45.19	0.53	2.15	18.98	34.77	15.79	H

LTE Band 13- ERP

 Limits: ≤ 34.77 dBm (3W)

LTE Band 13_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.50	-20.75	2.01	45.64	0.04	2.15	20.77	34.77	14.00	H
782.00	-20.71	2.01	45.65	0.09	2.15	20.87	34.77	13.90	H
784.50	-20.71	2.01	45.67	0.16	2.15	20.96	34.77	13.81	H

LTE Band 13_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.00	-20.54	2.01	45.65	0.09	2.15	21.04	34.77	13.73	H

LTE Band 13_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.50	-21.49	2.01	45.64	0.04	2.15	20.03	34.77	14.74	H
782.00	-21.50	2.01	45.65	0.09	2.15	20.08	34.77	14.69	H
784.50	-21.43	2.01	45.67	0.16	2.15	20.24	34.77	14.53	H

LTE Band 13_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.00	-21.22	2.01	45.65	0.09	2.15	20.36	34.77	14.41	H

LTE Band 30- EIRP
Limits: ≤24 dBm (250mW)

LTE Band 30_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2307.50	-24.09	3.48	44.55	5.52	22.50	24.00	1.50	H
2310.00	-23.86	3.48	44.55	5.53	22.75	24.00	1.25	H
2312.50	-23.76	3.48	44.56	5.54	22.85	24.00	1.15	H

LTE Band 30_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2310.00	-23.90	3.48	44.55	5.53	22.71	24.00	1.29	H

LTE Band 30_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2307.50	-24.87	3.48	44.55	5.52	21.72	24.00	2.28	H
2310.00	-24.66	3.48	44.55	5.53	21.95	24.00	2.05	H
2312.50	-24.57	3.48	44.56	5.54	22.04	24.00	1.96	H

LTE Band 30_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2310.00	-24.68	3.48	44.55	5.53	21.93	24.00	2.07	H

LTE Band 38-EIRP
Limits: ≤33dBm (2W)

LTE Band 38_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2572.50	-26.59	3.66	44.92	6.23	20.90	33.00	12.10	H
2595.00	-26.59	3.69	44.91	6.27	20.90	33.00	12.10	H
2617.50	-26.50	3.68	44.94	6.31	21.07	33.00	11.93	H

LTE Band 38_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2575.00	-26.67	3.66	44.92	6.23	20.82	33.00	12.18	H
2595.00	-26.48	3.69	44.91	6.27	21.01	33.00	11.99	H
2615.00	-26.51	3.68	44.94	6.31	21.06	33.00	11.94	H

LTE Band 38_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2577.50	-26.67	3.66	44.92	6.23	20.82	33.00	12.18	H
2595.00	-26.56	3.69	44.91	6.27	20.93	33.00	12.07	H
2612.50	-26.53	3.68	44.94	6.30	21.03	33.00	11.97	H

LTE Band 38_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2580.00	-27.75	3.67	44.92	6.24	19.74	33.00	13.26	H
2595.00	-26.54	3.69	44.91	6.27	20.95	33.00	12.05	H
2610.00	-26.69	3.68	44.94	6.30	20.87	33.00	12.13	H

LTE Band 38_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2572.50	-27.14	3.66	44.92	6.23	20.35	33.00	12.65	H
2595.00	-27.18	3.69	44.91	6.27	20.31	33.00	12.69	H
2617.50	-27.12	3.68	44.94	6.31	20.45	33.00	12.55	H

LTE Band 38_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2575.00	-27.19	3.66	44.92	6.23	20.30	33.00	12.70	H
2595.00	-27.10	3.69	44.91	6.27	20.39	33.00	12.61	H
2615.00	-27.19	3.68	44.94	6.31	20.38	33.00	12.62	H

LTE Band 38_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2577.50	-27.26	3.66	44.92	6.23	20.23	33.00	12.77	H
2595.00	-27.12	3.69	44.91	6.27	20.37	33.00	12.63	H
2612.50	-27.28	3.68	44.94	6.30	20.28	33.00	12.72	H

LTE Band 38_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2580.00	-27.22	3.67	44.92	6.24	20.27	33.00	12.73	H
2595.00	-27.13	3.69	44.91	6.27	20.36	33.00	12.64	H
2610.00	-27.21	3.68	44.94	6.30	20.35	33.00	12.65	H

LTE band 41 - EIRP
Limits: ≤33dBm (2W)

LTE Band 41_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-26.79	3.58	45.59	6.10	21.32	33.00	11.68	H
2593.00	-26.50	3.69	44.93	6.27	21.01	33.00	11.99	H
2687.50	-32.13	3.73	44.98	6.44	15.56	33.00	17.44	H

LTE Band 41_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-26.59	3.58	45.65	6.10	21.58	33.00	11.42	H
2593.00	-26.50	3.69	44.93	6.27	21.01	33.00	11.99	H
2685.00	-31.70	3.73	44.98	6.43	15.98	33.00	17.02	H

LTE Band 41_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-26.33	3.58	45.65	6.11	21.85	33.00	11.15	H
2593.00	-26.43	3.69	44.93	6.27	21.08	33.00	11.92	H
2682.50	-31.39	3.73	44.98	6.43	16.29	33.00	16.71	H

LTE Band 41_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-25.80	3.59	45.15	6.11	21.87	33.00	11.13	H
2593.00	-26.47	3.69	44.93	6.27	21.04	33.00	11.96	H
2680.00	-31.02	3.73	44.97	6.42	16.64	33.00	16.36	H

LTE Band 41_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-27.43	3.58	45.59	6.10	20.68	33.00	12.32	H
2593.00	-26.97	3.69	44.93	6.27	20.54	33.00	12.46	H
2687.50	-32.78	3.73	44.98	6.44	14.91	33.00	18.09	H

LTE Band 41_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-27.24	3.58	45.65	6.10	20.93	33.00	12.07	H
2593.00	-26.95	3.69	44.93	6.27	20.56	33.00	12.44	H
2685.00	-32.27	3.73	44.98	6.43	15.41	33.00	17.59	H

LTE Band 41_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-26.97	3.58	45.65	6.11	21.21	33.00	11.79	H
2593.00	-27.07	3.69	44.93	6.27	20.44	33.00	12.56	H
2682.50	-32.02	3.73	44.98	6.43	15.66	33.00	17.34	H

LTE Band 41_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-26.34	3.59	45.15	6.11	21.33	33.00	11.67	H
2593.00	-26.97	3.69	44.93	6.27	20.54	33.00	12.46	H
2680.00	-31.54	3.73	44.97	6.42	16.12	33.00	16.88	H

LTE Band 66- EIRP

Limits: ≤30dBm (1W)

LTE Band 66_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-30.54	3.17	44.10	5.12	21.85	30.00	8.15	H
1745.00	-31.48	3.68	44.16	5.06	21.42	30.00	8.58	H
1779.30	-30.35	3.04	44.03	5.00	21.72	30.00	8.28	H

LTE Band 66_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-30.81	3.40	44.10	5.12	21.81	30.00	8.19	H
1745.00	-31.51	3.68	44.16	5.06	21.39	30.00	8.61	H
1778.50	-30.27	3.04	44.03	5.00	21.80	30.00	8.20	H

LTE Band 66_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-23.69	3.66	44.10	5.12	21.87	30.00	8.13	H
1745.00	-24.17	3.68	44.16	5.06	21.37	30.00	8.63	H
1777.50	-24.28	3.04	44.04	5.00	21.72	30.00	8.28	H

LTE Band 66_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-23.75	3.56	44.10	5.11	21.90	30.00	8.10	H
1745.00	-24.18	3.68	44.16	5.06	21.36	30.00	8.64	H
1775.00	-24.41	3.05	44.05	5.01	21.59	30.00	8.41	H

LTE Band 66_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-23.82	3.47	44.11	5.11	21.93	30.00	8.07	H
1745.00	-24.14	3.68	44.16	5.06	21.40	30.00	8.60	H
1772.50	-24.90	3.05	44.06	5.01	21.12	30.00	8.88	H

LTE Band 66_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-23.94	3.37	44.11	5.10	21.90	30.00	8.10	H
1745.00	-24.16	3.68	44.16	5.06	21.38	30.00	8.62	H
1770.00	-24.92	3.05	44.07	5.01	21.12	30.00	8.88	H

LTE Band 66_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-31.29	3.17	44.10	5.12	21.10	30.00	8.90	H
1745.00	-32.30	3.68	44.16	5.06	20.60	30.00	9.40	H
1779.30	-31.06	3.04	44.03	5.00	21.01	30.00	8.99	H

LTE Band 66_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-31.58	3.40	44.10	5.12	21.04	30.00	8.96	H
1745.00	-32.25	3.68	44.16	5.06	20.65	30.00	9.35	H
1778.50	-31.02	3.04	44.03	5.00	21.05	30.00	8.95	H

LTE Band 66_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-24.45	3.66	44.10	5.12	21.11	30.00	8.89	H
1745.00	-24.94	3.68	44.16	5.06	20.60	30.00	9.40	H
1777.50	-25.02	3.04	44.04	5.00	20.98	30.00	9.02	H

LTE Band 66_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-24.56	3.56	44.10	5.11	21.09	30.00	8.91	H
1745.00	-24.96	3.68	44.16	5.06	20.58	30.00	9.42	H
1775.00	-25.20	3.05	44.05	5.01	20.80	30.00	9.20	H

LTE Band 66_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-24.58	3.47	44.11	5.11	21.17	30.00	8.83	H
1745.00	-24.96	3.68	44.16	5.06	20.58	30.00	9.42	H
1772.50	-25.76	3.05	44.06	5.01	20.26	30.00	9.74	H

LTE Band 66_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-24.66	3.37	44.11	5.10	21.18	30.00	8.82	H
1745.00	-24.96	3.68	44.16	5.06	20.58	30.00	9.42	H
1770.00	-25.72	3.05	44.07	5.01	20.32	30.00	9.68	H

Note: Expanded measurement uncertainty is $U = 2.84$ dB, $k = 2$.

AWAN
LTE Band 2-EIRP

Limits: ≤33dBm (2W)

LTE Band 2_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-24.52	2.92	43.75	4.87	21.18	33.00	11.82	H
1880.00	-24.09	2.85	43.75	4.82	21.63	33.00	11.37	H
1909.30	-27.67	2.87	43.77	4.76	17.99	33.00	15.01	H

LTE Band 2_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-24.71	2.87	43.75	4.87	21.04	33.00	11.96	H
1880.00	-24.19	2.85	43.75	4.82	21.53	33.00	11.47	H
1908.50	-27.46	2.89	43.78	4.76	18.19	33.00	14.81	H

LTE Band 2_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-24.71	2.87	43.75	4.87	21.04	33.00	11.96	H
1880.00	-24.17	2.85	43.75	4.82	21.55	33.00	11.45	H
1907.50	-27.44	2.84	43.77	4.77	18.26	33.00	14.74	H

LTE Band 2_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-24.71	2.88	43.74	4.86	21.01	33.00	11.99	H
1880.00	-24.18	2.85	43.75	4.82	21.54	33.00	11.46	H
1905.00	-27.20	2.87	43.77	4.77	18.47	33.00	14.53	H

LTE Band 2_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-24.66	2.87	43.75	4.86	21.08	33.00	11.92	H
1880.00	-24.15	2.85	43.75	4.82	21.57	33.00	11.43	H
1902.50	-27.11	2.86	43.77	4.78	18.58	33.00	14.42	H

LTE Band 2_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-24.65	2.86	43.75	4.85	21.09	33.00	11.91	H
1880.00	-24.24	2.85	43.75	4.82	21.48	33.00	11.52	H
1900.00	-27.21	2.87	43.77	4.78	18.47	33.00	14.53	H

LTE Band 2_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-25.24	2.92	43.75	4.87	20.46	33.00	12.54	H
1880.00	-24.85	2.85	43.75	4.82	20.87	33.00	12.13	H
1909.30	-28.36	2.87	43.77	4.76	17.30	33.00	15.70	H

LTE Band 2_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-25.58	2.87	43.75	4.87	20.17	33.00	12.83	H
1880.00	-25.03	2.85	43.75	4.82	20.69	33.00	12.31	H
1908.50	-28.27	2.89	43.78	4.76	17.38	33.00	15.62	H

LTE Band 2_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-25.54	2.87	43.75	4.87	20.21	33.00	12.79	H
1880.00	-25.07	2.85	43.75	4.82	20.65	33.00	12.35	H
1907.50	-28.24	2.84	43.77	4.77	17.46	33.00	15.54	H

LTE Band 2_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-25.55	2.88	43.74	4.86	20.17	33.00	12.83	H
1880.00	-25.10	2.85	43.75	4.82	20.62	33.00	12.38	H
1905.00	-28.06	2.87	43.77	4.77	17.61	33.00	15.39	H

LTE Band 2_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-25.48	2.87	43.75	4.86	20.26	33.00	12.74	H
1880.00	-24.99	2.85	43.75	4.82	20.73	33.00	12.27	H
1902.50	-27.97	2.86	43.77	4.78	17.72	33.00	15.28	H

LTE Band 2_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-25.52	2.86	43.75	4.85	20.22	33.00	12.78	H
1880.00	-25.07	2.85	43.75	4.82	20.65	33.00	12.35	H
1900.00	-28.09	2.87	43.77	4.78	17.59	33.00	15.41	H

LTE Band 4- EIRP

Limits: ≤30dBm (1W)

LTE Band 4_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-26.56	3.17	44.10	5.12	19.49	30.00	10.51	V
1732.50	-26.23	3.33	44.14	5.08	19.66	30.00	10.34	V
1754.30	-24.47	3.76	44.14	5.04	20.95	30.00	9.05	H

LTE Band 4_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-26.22	3.40	44.10	5.12	19.60	30.00	10.40	V
1732.50	-26.54	3.33	44.14	5.08	19.35	30.00	10.65	V
1753.50	-24.35	3.80	44.13	5.04	21.02	30.00	8.98	H

LTE Band 4_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-25.95	3.66	44.10	5.12	19.61	30.00	10.39	V
1732.50	-26.60	3.33	44.14	5.08	19.29	30.00	10.71	V
1752.50	-24.55	3.82	44.14	5.05	20.82	30.00	9.18	H

LTE Band 4_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-25.79	3.56	44.10	5.11	19.86	30.00	10.14	V
1732.50	-26.57	3.33	44.14	5.08	19.32	30.00	10.68	V
1750.00	-25.66	3.00	44.15	5.05	20.54	30.00	9.46	H

LTE Band 4_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-25.86	3.47	44.11	5.11	19.89	30.00	10.11	V
1732.50	-26.53	3.33	44.14	5.08	19.36	30.00	10.64	V
1747.50	-25.80	3.34	44.15	5.05	20.06	30.00	9.94	H

LTE Band 4_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-25.97	3.37	44.11	5.10	19.87	30.00	10.13	V
1732.50	-26.49	3.33	44.14	5.08	19.40	30.00	10.60	V
1745.00	-25.67	3.68	44.16	5.06	19.87	30.00	10.13	V

LTE Band 4_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-27.33	3.17	44.10	5.12	18.72	30.00	11.28	V
1732.50	-27.01	3.33	44.14	5.08	18.88	30.00	11.12	V
1754.30	-25.24	3.76	44.14	5.04	20.18	30.00	9.82	H

LTE Band 4_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-27.07	3.40	44.10	5.12	18.75	30.00	11.25	V
1732.50	-27.28	3.33	44.14	5.08	18.61	30.00	11.39	V
1753.50	-25.09	3.80	44.13	5.04	20.28	30.00	9.72	H

LTE Band 4_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-26.74	3.66	44.10	5.12	18.82	30.00	11.18	V
1732.50	-27.33	3.33	44.14	5.08	18.56	30.00	11.44	V
1752.50	-25.38	3.82	44.14	5.05	19.99	30.00	10.01	H

LTE Band 4_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-26.75	3.56	44.10	5.11	18.90	30.00	11.10	V
1732.50	-27.29	3.33	44.14	5.08	18.60	30.00	11.40	V
1750.00	-26.57	3.00	44.15	5.05	19.63	30.00	10.37	H

LTE Band 4_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-26.75	3.47	44.11	5.11	19.00	30.00	11.00	V
1732.50	-27.34	3.33	44.14	5.08	18.55	30.00	11.45	V
1747.50	-26.68	3.34	44.15	5.05	19.18	30.00	10.82	H

LTE Band 4_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-26.81	3.37	44.11	5.10	19.03	30.00	10.97	V
1732.50	-26.66	3.33	44.14	5.08	19.23	30.00	10.77	V
1745.00	-26.50	3.68	44.16	5.06	19.04	30.00	10.96	V

LTE Band 5-ERP

Limits: ≤38.45dBm (7W)

LTE Band 5_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-21.79	2.26	45.79	0.95	2.15	20.54	38.45	17.91	H
836.50	-21.86	2.26	45.66	0.82	2.15	20.21	38.45	18.24	H
848.30	-23.04	2.27	45.55	0.80	2.15	18.89	38.45	19.56	H

LTE Band 5_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-21.81	2.26	45.79	0.94	2.15	20.51	38.45	17.94	H
836.50	-21.74	2.26	45.66	0.82	2.15	20.33	38.45	18.12	H
847.50	-22.89	2.27	45.56	0.81	2.15	19.06	38.45	19.39	H

LTE Band 5_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-21.76	2.25	45.77	0.93	2.15	20.54	38.45	17.91	H
836.50	-21.69	2.26	45.66	0.82	2.15	20.38	38.45	18.07	H
846.50	-22.74	2.26	45.56	0.82	2.15	19.23	38.45	19.22	H

LTE Band 5_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-21.81	2.25	45.77	0.90	2.15	20.46	38.45	17.99	H
836.50	-21.66	2.26	45.66	0.82	2.15	20.41	38.45	18.04	H
844.00	-22.40	2.26	45.59	0.82	2.15	19.60	38.45	18.85	H

LTE Band 5_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-22.55	2.26	45.79	0.95	2.15	19.78	38.45	18.67	H
836.50	-22.46	2.26	45.66	0.82	2.15	19.61	38.45	18.84	H
848.30	-23.78	2.27	45.55	0.80	2.15	18.15	38.45	20.30	H

LTE Band 5_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-22.54	2.26	45.79	0.94	2.15	19.78	38.45	18.67	H
836.50	-22.53	2.26	45.66	0.82	2.15	19.54	38.45	18.91	H
847.50	-23.64	2.27	45.56	0.81	2.15	18.31	38.45	20.14	H

LTE Band 5_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-22.52	2.25	45.77	0.93	2.15	19.78	38.45	18.67	H
836.50	-22.47	2.26	45.66	0.82	2.15	19.60	38.45	18.85	H
846.50	-23.50	2.26	45.56	0.82	2.15	18.47	38.45	19.98	H

LTE Band 5_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-22.58	2.25	45.77	0.90	2.15	19.69	38.45	18.76	H
836.50	-22.41	2.26	45.66	0.82	2.15	19.66	38.45	18.79	H
844.00	-23.14	2.26	45.59	0.82	2.15	18.86	38.45	19.59	H

LTE Band 7- EIRP

Limits: ≤ 33 dBm (2W)

LTE Band 7_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-25.03	3.58	45.68	6.10	23.17	33.00	9.83	H
2535.00	-26.07	3.63	44.82	6.16	21.28	33.00	11.72	H
2567.50	-28.93	3.65	44.92	6.22	18.56	33.00	14.44	H

LTE Band 7_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-25.32	3.59	45.64	6.11	22.84	33.00	10.16	H
2535.00	-26.18	3.63	44.82	6.16	21.17	33.00	11.83	H
2565.00	-28.94	3.65	44.97	6.22	18.60	33.00	14.40	H

LTE Band 7_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-24.64	3.59	44.92	6.11	22.80	33.00	10.20	H
2535.00	-26.12	3.63	44.82	6.16	21.23	33.00	11.77	H
2562.50	-29.60	3.65	45.67	6.21	18.63	33.00	14.37	H

LTE Band 7_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-25.44	3.58	45.36	6.12	22.46	33.00	10.54	H
2535.00	-26.18	3.63	44.82	6.16	21.17	33.00	11.83	H
2560.00	-29.68	3.64	45.98	6.21	18.87	33.00	14.13	H

LTE Band 7_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-25.81	3.58	45.68	6.10	22.39	33.00	10.61	H
2535.00	-26.86	3.63	44.82	6.16	20.49	33.00	12.51	H
2567.50	-29.69	3.65	44.92	6.22	17.80	33.00	15.20	H

LTE Band 7_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-26.09	3.59	45.64	6.11	22.07	33.00	10.93	H
2535.00	-27.00	3.63	44.82	6.16	20.35	33.00	12.65	H
2565.00	-29.74	3.65	44.97	6.22	17.80	33.00	15.20	H

LTE Band 7_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-25.41	3.59	44.92	6.11	22.03	33.00	10.97	H
2535.00	-26.91	3.63	44.82	6.16	20.44	33.00	12.56	H
2562.50	-30.32	3.65	45.67	6.21	17.91	33.00	15.09	H

LTE Band 7_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-26.22	3.58	45.36	6.12	21.68	33.00	11.32	H
2535.00	-26.92	3.63	44.82	6.16	20.43	33.00	12.57	H
2560.00	-30.53	3.64	45.98	6.21	18.02	33.00	14.98	H

LTE Band 12 - ERP

Limits: ≤34.77dBm (3W)

LTE Band 12_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-21.97	1.90	44.66	0.77	2.15	19.41	34.77	15.36	H
707.50	-21.97	1.91	44.94	0.62	2.15	19.53	34.77	15.24	H
715.30	-21.84	1.92	45.26	0.50	2.15	19.85	34.77	14.92	H

LTE Band 12_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-22.03	1.90	44.68	0.76	2.15	19.36	34.77	15.41	H
707.50	-21.85	1.91	44.94	0.62	2.15	19.65	34.77	15.12	H
714.50	-21.88	1.92	45.26	0.50	2.15	19.81	34.77	14.96	H

LTE Band 12_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-21.99	1.90	44.81	0.74	2.15	19.51	34.77	15.26	H
707.50	-21.84	1.91	44.94	0.62	2.15	19.66	34.77	15.11	H
713.50	-21.74	1.92	45.22	0.50	2.15	19.91	34.77	14.86	H

LTE Band 12_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-22.01	1.91	44.93	0.70	2.15	19.56	34.77	15.21	H
707.50	-21.85	1.91	44.94	0.62	2.15	19.65	34.77	15.12	H
711.00	-21.83	1.92	45.19	0.53	2.15	19.82	34.77	14.95	H

LTE Band 12_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-22.64	1.90	44.66	0.77	2.15	18.74	34.77	16.03	H
707.50	-22.60	1.91	44.94	0.62	2.15	18.90	34.77	15.87	H
715.30	-22.48	1.92	45.26	0.50	2.15	19.21	34.77	15.56	H

LTE Band 12_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-22.70	1.90	44.68	0.76	2.15	18.69	34.77	16.08	H
707.50	-22.54	1.91	44.94	0.62	2.15	18.96	34.77	15.81	H
714.50	-22.58	1.92	45.26	0.50	2.15	19.11	34.77	15.66	H

LTE Band 12_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-22.74	1.90	44.81	0.74	2.15	18.76	34.77	16.01	H
707.50	-22.57	1.91	44.94	0.62	2.15	18.93	34.77	15.84	H
713.50	-22.45	1.92	45.22	0.50	2.15	19.20	34.77	15.57	H

LTE Band 12_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-22.69	1.91	44.93	0.70	2.15	18.88	34.77	15.89	H
707.50	-22.55	1.91	44.94	0.62	2.15	18.95	34.77	15.82	H
711.00	-22.50	1.92	45.19	0.53	2.15	19.15	34.77	15.62	H

LTE Band 13- ERP

 Limits: ≤ 34.77 dBm (3W)

LTE Band 13_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.50	-20.12	2.01	45.64	0.04	2.15	21.40	34.77	13.37	H
782.00	-20.22	2.01	45.65	0.09	2.15	21.36	34.77	13.41	H
784.50	-20.47	2.01	45.67	0.16	2.15	21.20	34.77	13.57	H

LTE Band 13_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.00	-20.31	2.01	45.65	0.09	2.15	21.27	34.77	13.50	H

LTE Band 13_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.50	-20.84	2.01	45.64	0.04	2.15	20.68	34.77	14.09	H
782.00	-20.97	2.01	45.65	0.09	2.15	20.61	34.77	14.16	H
784.50	-21.18	2.01	45.67	0.16	2.15	20.49	34.77	14.28	H

LTE Band 13_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.00	-21.06	2.01	45.65	0.09	2.15	20.52	34.77	14.25	H

LTE Band 30- EIRP
Limits: ≤24 dBm (250mW)

LTE Band 30_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2307.50	-24.94	3.48	44.55	5.52	21.65	24.00	2.35	H
2310.00	-25.08	3.48	44.55	5.53	21.53	24.00	2.47	H
2312.50	-25.15	3.48	44.56	5.54	21.46	24.00	2.54	H

LTE Band 30_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2310.00	-25.10	3.48	44.55	5.53	21.51	24.00	2.49	H

LTE Band 30_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2307.50	-25.65	3.48	44.55	5.52	20.94	24.00	3.06	H
2310.00	-25.78	3.48	44.55	5.53	20.83	24.00	3.17	H
2312.50	-25.94	3.48	44.56	5.54	20.67	24.00	3.33	H

LTE Band 30_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2310.00	-25.80	3.48	44.55	5.53	20.81	24.00	3.19	H

LTE Band 38-EIRP
Limits: ≤33dBm (2W)

LTE Band 38_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2572.50	-32.66	3.66	44.92	6.23	14.83	33.00	18.17	H
2595.00	-33.25	3.69	44.91	6.27	14.24	33.00	18.76	H
2617.50	-33.62	3.68	44.94	6.31	13.95	33.00	19.05	H

LTE Band 38_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2575.00	-32.71	3.66	44.92	6.23	14.78	33.00	18.22	H
2595.00	-33.30	3.69	44.91	6.27	14.19	33.00	18.81	H
2615.00	-33.72	3.68	44.94	6.31	13.85	33.00	19.15	H

LTE Band 38_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2577.50	-32.72	3.66	44.92	6.23	14.77	33.00	18.23	H
2595.00	-33.25	3.69	44.91	6.27	14.24	33.00	18.76	H
2612.50	-33.80	3.68	44.94	6.30	13.76	33.00	19.24	H

LTE Band 38_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2580.00	-32.71	3.67	44.92	6.24	14.78	33.00	18.22	H
2595.00	-33.26	3.69	44.91	6.27	14.23	33.00	18.77	H
2610.00	-33.88	3.68	44.94	6.30	13.68	33.00	19.32	H

LTE Band 38_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2572.50	-33.17	3.66	44.92	6.23	14.32	33.00	18.68	H
2595.00	-33.90	3.69	44.91	6.27	13.59	33.00	19.41	H
2617.50	-34.32	3.68	44.94	6.31	13.25	33.00	19.75	H

LTE Band 38_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2575.00	-33.13	3.66	44.92	6.23	14.36	33.00	18.64	H
2595.00	-33.88	3.69	44.91	6.27	13.61	33.00	19.39	H
2615.00	-34.42	3.68	44.94	6.31	13.15	33.00	19.85	H

LTE Band 38_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2577.50	-33.37	3.66	44.92	6.23	14.12	33.00	18.88	H
2595.00	-33.79	3.69	44.91	6.27	13.70	33.00	19.30	H
2612.50	-34.60	3.68	44.94	6.30	12.96	33.00	20.04	H

LTE Band 38_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2580.00	-33.24	3.67	44.92	6.24	14.25	33.00	18.75	H
2595.00	-33.83	3.69	44.91	6.27	13.66	33.00	19.34	H
2610.00	-34.57	3.68	44.94	6.30	12.99	33.00	20.01	H

LTE band 41 - EIRP
Limits: ≤33dBm (2W)

LTE Band 41_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-28.92	3.58	45.59	6.10	19.19	33.00	13.81	H
2593.00	-33.14	3.69	44.93	6.27	14.37	33.00	18.63	H
2687.50	-33.48	3.73	44.98	6.44	14.21	33.00	18.79	H

LTE Band 41_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-29.12	3.58	45.65	6.10	19.05	33.00	13.95	H
2593.00	-33.03	3.69	44.93	6.27	14.48	33.00	18.52	H
2685.00	-33.42	3.73	44.98	6.43	14.26	33.00	18.74	H

LTE Band 41_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-29.34	3.58	45.65	6.11	18.84	33.00	14.16	H
2593.00	-32.83	3.69	44.93	6.27	14.68	33.00	18.32	H
2682.50	-33.70	3.73	44.98	6.43	13.98	33.00	19.02	H

LTE Band 41_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-29.10	3.59	45.15	6.11	18.57	33.00	14.43	H
2593.00	-32.85	3.69	44.93	6.27	14.66	33.00	18.34	H
2680.00	-33.62	3.73	44.97	6.42	14.04	33.00	18.96	H

LTE Band 41_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-29.65	3.58	45.59	6.10	18.46	33.00	14.54	H
2593.00	-33.64	3.69	44.93	6.27	13.87	33.00	19.13	H
2687.50	-34.14	3.73	44.98	6.44	13.55	33.00	19.45	H

LTE Band 41_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-29.90	3.58	45.65	6.10	18.27	33.00	14.73	H
2593.00	-33.79	3.69	44.93	6.27	13.72	33.00	19.28	H
2685.00	-34.21	3.73	44.98	6.43	13.47	33.00	19.53	H

LTE Band 41_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-30.10	3.58	45.65	6.11	18.08	33.00	14.92	H
2593.00	-33.60	3.69	44.93	6.27	13.91	33.00	19.09	H
2682.50	-34.48	3.73	44.98	6.43	13.20	33.00	19.80	H

LTE Band 41_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-29.87	3.59	45.15	6.11	17.80	33.00	15.20	H
2593.00	-33.60	3.69	44.93	6.27	13.91	33.00	19.09	H
2680.00	-34.42	3.73	44.97	6.42	13.24	33.00	19.76	H

LTE Band 66- EIRP

Limits: ≤30dBm (1W)

LTE Band 66_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-32.21	3.17	44.10	5.12	20.18	30.00	9.82	H
1745.00	-32.16	3.68	44.16	5.06	20.74	30.00	9.26	H
1779.30	-30.48	3.04	44.03	5.00	21.59	30.00	8.41	H

LTE Band 66_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-32.31	3.40	44.10	5.12	20.31	30.00	9.69	H
1745.00	-32.08	3.68	44.16	5.06	20.82	30.00	9.18	H
1778.50	-29.96	3.04	44.03	5.00	22.11	30.00	7.89	H

LTE Band 66_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-25.19	3.66	44.10	5.12	20.37	30.00	9.63	H
1745.00	-24.74	3.68	44.16	5.06	20.80	30.00	9.20	H
1777.50	-23.89	3.04	44.04	5.00	22.11	30.00	7.89	H

LTE Band 66_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-25.30	3.56	44.10	5.11	20.35	30.00	9.65	H
1745.00	-24.77	3.68	44.16	5.06	20.77	30.00	9.23	H
1775.00	-23.97	3.05	44.05	5.01	22.03	30.00	7.97	H

LTE Band 66_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-25.34	3.47	44.11	5.11	20.41	30.00	9.59	H
1745.00	-24.73	3.68	44.16	5.06	20.81	30.00	9.19	H
1772.50	-24.41	3.05	44.06	5.01	21.61	30.00	8.39	H

LTE Band 66_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-25.51	3.37	44.11	5.10	20.33	30.00	9.67	H
1745.00	-24.83	3.68	44.16	5.06	20.71	30.00	9.29	H
1770.00	-24.11	3.05	44.07	5.01	21.93	30.00	8.07	H

LTE Band 66_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-32.83	3.17	44.10	5.12	19.56	30.00	10.44	H
1745.00	-32.88	3.68	44.16	5.06	20.02	30.00	9.98	H
1779.30	-31.19	3.04	44.03	5.00	20.88	30.00	9.12	H

LTE Band 66_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-33.06	3.40	44.10	5.12	19.56	30.00	10.44	H
1745.00	-32.84	3.68	44.16	5.06	20.06	30.00	9.94	H
1778.50	-30.65	3.04	44.03	5.00	21.42	30.00	8.58	H

LTE Band 66_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-25.99	3.66	44.10	5.12	19.57	30.00	10.43	H
1745.00	-25.49	3.68	44.16	5.06	20.05	30.00	9.95	H
1777.50	-24.56	3.04	44.04	5.00	21.44	30.00	8.56	H

LTE Band 66_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-26.09	3.56	44.10	5.11	19.56	30.00	10.44	H
1745.00	-25.60	3.68	44.16	5.06	19.94	30.00	10.06	H
1775.00	-24.74	3.05	44.05	5.01	21.26	30.00	8.74	H

LTE Band 66_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-26.20	3.47	44.11	5.11	19.55	30.00	10.45	H
1745.00	-25.57	3.68	44.16	5.06	19.97	30.00	10.03	H
1772.50	-25.24	3.05	44.06	5.01	20.78	30.00	9.22	H

LTE Band 66_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-26.25	3.37	44.11	5.10	19.59	30.00	10.41	H
1745.00	-25.58	3.68	44.16	5.06	19.96	30.00	10.04	H
1770.00	-24.87	3.05	44.07	5.01	21.17	30.00	8.83	H

Note: Expanded measurement uncertainty is $U = 2.84$ dB, $k = 2$.

A.2 Emission Limit

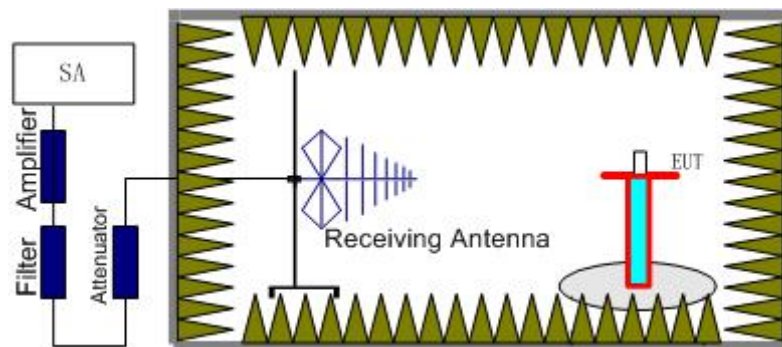
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

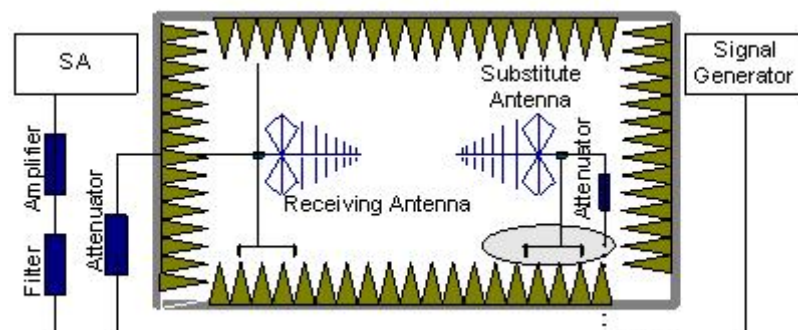
The spectrum was scanned from 9 kHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5-meter-high non-conductive stand at a 3-meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

FDD Band 2: Part 24.238 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 4/66: Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 5 (824MHz~849MHz): Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 7/TDD Band 38/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FDD Band 12: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FDD Band 30: Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies

between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

All mode of operation were investigated and the worst case configuration results are reported in this section.

The range of evaluated frequency is from 9 kHz to 26GHz. Measurement value show only up to 6 maximum emissions noted.

A.2.4 Measurement Results Table

SPEED

LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3702.02	-53.75	6.42	8.48	-51.69	-13.00	38.69	H
5556.02	-53.76	7.19	10.59	-50.36	-13.00	37.36	V
7410.01	-47.06	8.14	12.09	-43.11	-13.00	30.11	V
9231.01	-53.04	9.00	13.24	-48.80	-13.00	35.80	H
11130.01	-50.93	9.71	13.17	-47.47	-13.00	34.47	H
12908.01	-48.52	10.50	13.44	-45.58	-13.00	32.58	H

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-55.38	6.26	8.56	-53.08	-13.00	40.08	V
5680.02	-54.71	7.28	10.56	-51.43	-13.00	38.43	V
7526.01	-49.43	8.28	12.22	-45.49	-13.00	32.49	H
9410.01	-46.90	9.09	13.35	-42.64	-13.00	29.64	V
11247.01	-50.68	9.68	13.15	-47.21	-13.00	34.21	V
13184.01	-48.27	10.57	13.76	-45.08	-13.00	32.08	V

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3819.02	-55.97	6.08	8.65	-53.40	-13.00	40.40	V
5728.02	-52.42	7.30	10.55	-49.17	-13.00	36.17	V
7642.01	-41.53	8.16	12.31	-37.38	-13.00	24.38	H
9557.01	-47.65	9.34	13.34	-43.65	-13.00	30.65	H
11457.01	-50.36	9.92	13.11	-47.17	-13.00	34.17	V
13397.01	-47.23	10.57	14.06	-43.74	-13.00	30.74	H

LTE Band 4, 1.4MHz, QPSK, Channel 19957

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-61.19	5.38	8.01	-58.56	-13.00	45.56	H
5136.02	-64.33	6.86	10.09	-61.10	-13.00	48.10	V
6844.01	-56.66	7.83	11.41	-53.08	-13.00	40.08	H
8557.01	-63.73	8.57	13.01	-59.29	-13.00	46.29	V
10270.01	-51.06	9.54	13.01	-47.59	-13.00	34.59	H
12022.01	-60.11	10.12	13.01	-57.22	-13.00	44.22	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3465.02	-61.35	5.46	8.12	-58.69	-13.00	45.69	H
5204.02	-64.82	6.97	10.19	-61.60	-13.00	48.60	V
6935.01	-58.67	7.80	11.52	-54.95	-13.00	41.95	H
8669.01	-64.22	8.40	13.03	-59.59	-13.00	46.59	V
10414.01	-57.93	9.78	13.07	-54.64	-13.00	41.64	V
12157.01	-59.75	10.18	13.06	-56.87	-13.00	43.87	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3509.02	-55.81	5.54	8.21	-53.14	-13.00	40.14	H
5267.02	-61.09	6.99	10.27	-57.81	-13.00	44.81	V
7022.01	-48.37	8.27	11.63	-45.01	-13.00	32.01	V
8776.01	-63.48	8.59	13.06	-59.01	-13.00	46.01	V
10537.01	-53.60	9.51	13.11	-50.00	-13.00	37.00	V
12246.01	-59.91	10.03	13.10	-56.84	-13.00	43.84	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1650.01	-52.58	3.57	5.23	2.15	-53.07	-13.00	40.07	V
2475.00	-51.63	4.60	6.03	2.15	-52.35	-13.00	39.35	V
3295.02	-54.73	5.29	7.71	2.15	-54.46	-13.00	41.46	V
4130.02	-54.03	6.05	9.03	2.15	-53.20	-13.00	40.20	H
4961.01	-48.68	6.67	9.86	2.15	-47.64	-13.00	34.64	H
5783.01	-53.54	7.22	10.54	2.15	-52.37	-13.00	39.37	H

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1673.01	-51.37	3.58	5.19	2.15	-51.91	-13.00	38.91	V
2510.00	-50.11	4.63	6.12	2.15	-50.77	-13.00	37.77	H
3350.02	-54.11	5.32	7.84	2.15	-53.74	-13.00	40.74	H
4170.02	-54.67	6.14	9.07	2.15	-53.89	-13.00	40.89	V
5032.01	-54.55	6.58	9.94	2.15	-53.34	-13.00	40.34	H
5858.01	-52.24	7.26	10.53	2.15	-51.12	-13.00	38.12	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1697.01	-48.95	3.60	5.15	2.15	-49.55	-13.00	36.55	V
2545.00	-48.21	4.66	6.18	2.15	-48.84	-13.00	35.84	H
3380.02	-55.33	5.34	7.91	2.15	-54.91	-13.00	41.91	V
4247.02	-55.10	6.24	9.15	2.15	-54.34	-13.00	41.34	H
5103.01	-53.77	6.78	10.04	2.15	-52.66	-13.00	39.66	V
5943.01	-51.59	7.47	10.51	2.15	-50.70	-13.00	37.70	H

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4998.02	-55.83	6.61	9.90	-52.54	-25.00	27.54	H
7510.01	-54.06	8.35	12.21	-50.20	-25.00	25.20	H
10016.01	-52.78	9.23	12.91	-49.10	-25.00	24.10	V
12517.01	-49.06	10.22	13.21	-46.07	-25.00	21.07	H
15003.00	-46.48	11.22	14.00	-43.70	-25.00	18.70	H
17499.00	-44.10	12.72	14.90	-41.92	-25.00	16.92	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5065.02	-56.12	6.67	9.99	-52.80	-25.00	27.80	V
7607.01	-49.58	8.00	12.29	-45.29	-25.00	20.29	H
10144.01	-44.82	9.39	12.96	-41.25	-25.00	16.25	V
12682.01	-40.93	10.33	13.31	-37.95	-25.00	12.95	V
15213.00	-31.90	11.38	13.87	-29.41	-25.00	4.41	V
17738.00	-44.46	12.39	15.23	-41.62	-25.00	16.62	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5137.02	-56.10	6.86	10.09	-52.87	-25.00	27.87	H
7703.01	-53.43	8.42	12.36	-49.49	-25.00	24.49	V
10274.01	-46.35	9.55	13.01	-42.89	-25.00	17.89	V
12846.01	-46.68	10.65	13.41	-43.92	-25.00	18.92	H
15417.00	-36.60	11.42	13.75	-34.27	-25.00	9.27	H
17985.00	-44.77	12.90	15.58	-42.09	-25.00	17.09	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1403.01	-48.90	3.24	5.00	2.15	-49.29	-13.00	36.29	V
2099.00	-26.33	4.19	4.90	2.15	-27.77	-13.00	14.77	H
2812.00	-52.92	4.93	6.66	2.15	-53.34	-13.00	40.34	V
3511.02	-53.47	5.54	8.22	2.15	-52.94	-13.00	39.94	H
4189.02	-54.16	6.18	9.09	2.15	-53.40	-13.00	40.40	V
4904.01	-53.94	6.73	9.80	2.15	-53.02	-13.00	40.02	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1415.01	-55.50	3.25	5.06	2.15	-55.84	-13.00	42.84	H
2123.00	-28.02	4.21	4.97	2.15	-29.41	-13.00	16.41	H
2838.00	-52.82	4.95	6.71	2.15	-53.21	-13.00	40.21	H
3527.02	-54.82	5.59	8.24	2.15	-54.32	-13.00	41.32	V
4240.02	-54.76	6.25	9.14	2.15	-54.02	-13.00	41.02	V
4965.01	-53.83	6.66	9.87	2.15	-52.77	-13.00	39.77	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1431.01	-55.30	3.28	5.14	2.15	-55.59	-13.00	42.59	V
2146.00	-31.13	4.24	5.04	2.15	-32.48	-13.00	19.48	H
2858.00	-51.94	4.96	6.74	2.15	-52.31	-13.00	39.31	V
3569.02	-53.22	6.02	8.30	2.15	-53.09	-13.00	40.09	V
4288.02	-54.78	6.21	9.19	2.15	-53.95	-13.00	40.95	H
4998.01	-52.05	6.61	9.90	2.15	-50.91	-13.00	37.91	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1560.01	-50.40	3.47	5.39	2.15	-50.63	-40.00	10.63	H
2339.00	-36.95	4.44	5.62	2.15	-37.92	-13.00	24.92	V
3129.02	-52.44	5.40	7.31	2.15	-52.68	-13.00	39.68	H
3906.02	-53.91	6.11	8.77	2.15	-53.40	-13.00	40.40	V
4678.02	-53.04	6.49	9.58	2.15	-52.10	-13.00	39.10	V
5470.01	-53.57	6.95	10.56	2.15	-52.11	-13.00	39.11	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1560.01	-54.02	3.47	5.39	2.15	-54.25	-40.00	14.25	H
2347.00	-37.53	4.45	5.64	2.15	-38.49	-13.00	25.49	V
3133.02	-52.78	5.39	7.32	2.15	-53.00	-13.00	40.00	H
3900.02	-54.60	6.11	8.76	2.15	-54.10	-13.00	41.10	V
4677.02	-53.84	6.49	9.58	2.15	-52.90	-13.00	39.90	V
5485.01	-54.31	7.00	10.58	2.15	-52.88	-13.00	39.88	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1569.01	-55.71	3.48	5.38	2.15	-55.96	-40.00	15.96	H
2354.00	-39.31	4.46	5.66	2.15	-40.26	-13.00	27.26	V
3132.02	-52.42	5.39	7.32	2.15	-52.64	-13.00	39.64	V
3917.02	-54.58	6.12	8.78	2.15	-54.07	-13.00	41.07	V
4704.02	-54.06	6.51	9.60	2.15	-53.12	-13.00	40.12	H
5504.01	-53.79	7.08	10.60	2.15	-52.42	-13.00	39.42	V

LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4620.02	-60.55	6.45	9.52	-57.48	-40.00	17.48	H
6928.01	-58.19	7.74	11.51	-54.42	-40.00	14.42	V
9239.01	-53.59	9.02	13.24	-49.37	-40.00	9.37	V
11557.01	-59.05	9.81	13.09	-55.77	-40.00	15.77	V
13847.01	-57.31	10.70	14.41	-53.60	-40.00	13.60	V
16150.00	-53.70	11.79	13.67	-51.82	-40.00	11.82	H

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4625.02	-61.23	6.44	9.53	-58.14	-40.00	18.14	H
6936.01	-58.32	7.80	11.52	-54.60	-40.00	14.60	V
9245.01	-55.39	9.03	13.25	-51.17	-40.00	11.17	V
11551.01	-58.53	9.81	13.09	-55.25	-40.00	15.25	V
13862.01	-56.87	10.73	14.42	-53.18	-40.00	13.18	V
16163.00	-53.81	11.78	13.67	-51.92	-40.00	11.92	H

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4631.02	-61.75	6.45	9.53	-58.67	-40.00	18.67	V
6941.01	-58.40	7.84	11.53	-54.71	-40.00	14.71	V
9255.01	-55.40	9.05	13.25	-51.20	-40.00	11.20	V
11564.01	-57.67	9.80	13.09	-54.38	-40.00	14.38	V
13877.01	-56.44	10.76	14.43	-52.77	-40.00	12.77	V
16179.00	-53.90	11.76	13.66	-52.00	-40.00	12.00	H

LTE Band 38, 5MHz, QPSK, Channel 37775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5145.02	-52.24	6.87	10.10	-49.01	-25.00	24.01	H
7719.01	-40.21	8.40	12.38	-36.23	-25.00	11.23	V
10299.01	-52.40	9.64	13.02	-49.02	-25.00	24.02	V
12872.01	-48.33	10.58	13.42	-45.49	-25.00	20.49	V
15449.00	-44.34	11.46	13.73	-42.07	-25.00	17.07	V
17984.00	-45.13	12.90	15.58	-42.45	-25.00	17.45	V

LTE Band 38, 5MHz, QPSK, Channel 38000

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5193.02	-48.02	6.95	10.17	-44.80	-25.00	19.80	V
7790.01	-35.08	8.30	12.43	-30.95	-25.00	5.95	V
9059.01	-53.40	9.04	13.14	-49.30	-25.00	24.30	V
10360.01	-50.87	9.74	13.04	-47.57	-25.00	22.57	V
11643.01	-50.20	9.72	13.07	-46.85	-25.00	21.85	H
13004.01	-47.52	10.48	13.51	-44.49	-25.00	19.49	V

LTE Band 38, 5MHz, QPSK, Channel 38225

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5236.02	-48.39	7.00	10.23	-45.16	-25.00	20.16	V
7854.01	-41.29	8.36	12.48	-37.17	-25.00	12.17	V
9131.01	-53.57	8.93	13.18	-49.32	-25.00	24.32	V
10471.01	-50.40	9.70	13.09	-47.01	-25.00	22.01	V
11744.01	-50.06	9.83	13.05	-46.84	-25.00	21.84	V
13093.01	-45.68	10.90	13.63	-42.95	-25.00	17.95	V

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4998.02	-51.31	6.61	9.90	-48.02	-25.00	23.02	V
7498.01	-36.59	8.39	12.20	-32.78	-25.00	7.78	V
9998.01	-37.63	9.18	12.90	-33.91	-25.00	8.91	V
12494.01	-49.48	10.19	13.20	-46.47	-25.00	21.47	V
14987.00	-46.21	11.21	14.01	-43.41	-25.00	18.41	H
17489.00	-44.68	12.70	14.88	-42.50	-25.00	17.50	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5186.02	-50.83	6.94	10.16	-47.61	-25.00	22.61	H
7782.01	-40.11	8.31	12.43	-35.99	-25.00	10.99	V
10383.01	-51.58	9.77	13.05	-48.30	-25.00	23.30	V
12969.01	-40.21	10.48	13.48	-37.21	-25.00	12.21	V
15562.00	-44.09	11.50	13.70	-41.89	-25.00	16.89	V
16846.00	-42.54	12.06	13.74	-40.86	-25.00	15.86	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5375.02	-49.55	6.88	10.43	-46.00	-25.00	21.00	H
8065.01	-37.68	8.32	12.65	-33.35	-25.00	8.35	V
10757.01	-49.18	9.44	13.15	-45.47	-25.00	20.47	V
13449.01	-43.80	10.61	14.13	-40.28	-25.00	15.28	H
16114.00	-43.09	11.84	13.68	-41.25	-25.00	16.25	H
17491.00	-45.23	12.70	14.88	-43.05	-25.00	18.05	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-61.25	5.38	8.01	-58.62	-13.00	45.62	H
5139.02	-64.24	6.86	10.09	-61.01	-13.00	48.01	V
6847.01	-56.75	7.83	11.42	-53.16	-13.00	40.16	H
8560.01	-64.14	8.56	13.01	-59.69	-13.00	46.69	V
10279.01	-50.20	9.57	13.01	-46.76	-13.00	33.76	V
12024.01	-60.01	10.12	13.01	-57.12	-13.00	44.12	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3490.02	-57.22	5.50	8.18	-54.54	-13.00	41.54	H
5239.02	-60.99	7.00	10.23	-57.76	-13.00	44.76	V
6985.01	-46.78	8.18	11.58	-43.38	-13.00	30.38	H
8731.01	-64.37	8.45	13.05	-59.77	-13.00	46.77	V
10484.01	-50.88	9.68	13.09	-47.47	-13.00	34.47	H
12181.01	-59.61	10.11	13.07	-56.65	-13.00	43.65	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3559.02	-51.66	5.92	8.28	-49.30	-13.00	36.30	V
5342.02	-59.57	6.95	10.38	-56.14	-13.00	43.14	V
7123.01	-49.35	8.16	11.75	-45.76	-13.00	32.76	V
8902.01	-64.19	8.85	13.08	-59.96	-13.00	46.96	V
10692.01	-58.25	9.30	13.14	-54.41	-13.00	41.41	H
12478.01	-59.43	10.23	13.19	-56.47	-13.00	43.47	V

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 5.16$ dB, $k = 2$.

AWAN
LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3746.02	-56.02	6.31	8.54	-53.79	-13.00	40.79	V
5557.02	-48.74	7.19	10.59	-45.34	-13.00	32.34	H
7408.01	-43.50	8.14	12.09	-39.55	-13.00	26.55	H
9254.01	-40.98	9.05	13.25	-36.78	-13.00	23.78	H
11076.01	-50.50	9.88	13.18	-47.20	-13.00	34.20	V
12970.01	-48.67	10.48	13.48	-45.67	-13.00	32.67	V

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-54.73	6.26	8.56	-52.43	-13.00	39.43	H
5643.02	-44.69	7.27	10.57	-41.39	-13.00	28.39	V
7527.01	-42.92	8.28	12.22	-38.98	-13.00	25.98	V
9413.01	-43.20	9.10	13.35	-38.95	-13.00	25.95	V
11262.01	-50.54	9.77	13.15	-47.16	-13.00	34.16	V
13115.01	-47.39	10.87	13.66	-44.60	-13.00	31.60	H

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3868.02	-56.39	6.09	8.72	-53.76	-13.00	40.76	V
5730.02	-49.70	7.29	10.55	-46.44	-13.00	33.44	V
7639.01	-47.44	8.15	12.31	-43.28	-13.00	30.28	H
9559.01	-44.77	9.33	13.34	-40.76	-13.00	27.76	V
11480.01	-49.89	9.86	13.10	-46.65	-13.00	33.65	V
13378.01	-47.74	10.57	14.03	-44.28	-13.00	31.28	H

LTE Band 4, 1.4MHz, QPSK, Channel 19957

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-60.90	5.38	8.01	-58.27	-13.00	45.27	H
5133.02	-64.63	6.86	10.09	-61.40	-13.00	48.40	V
6847.01	-61.29	7.83	11.42	-57.70	-13.00	44.70	V
8558.01	-61.30	8.57	13.01	-56.86	-13.00	43.86	V
10265.01	-56.61	9.52	13.01	-53.12	-13.00	40.12	V
12016.01	-60.03	10.10	13.01	-57.12	-13.00	44.12	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3465.02	-55.29	5.46	8.12	-52.63	-13.00	39.63	H
5204.02	-64.20	6.97	10.19	-60.98	-13.00	47.98	V
6931.01	-51.52	7.77	11.52	-47.77	-13.00	34.77	H
8669.01	-60.99	8.40	13.03	-56.36	-13.00	43.36	V
10397.01	-51.67	9.80	13.06	-48.41	-13.00	35.41	H
12145.01	-59.61	10.22	13.06	-56.77	-13.00	43.77	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3509.02	-55.80	5.54	8.21	-53.13	-13.00	40.13	H
5268.02	-60.81	6.99	10.28	-57.52	-13.00	44.52	H
7020.01	-52.63	8.27	11.62	-49.28	-13.00	36.28	V
8774.01	-63.56	8.58	13.05	-59.09	-13.00	46.09	V
10538.01	-52.67	9.51	13.11	-49.07	-13.00	36.07	H
12248.01	-59.78	10.03	13.10	-56.71	-13.00	43.71	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1649.01	-48.08	3.56	5.23	2.15	-48.56	-13.00	35.56	H
2474.00	-34.84	4.60	6.02	2.15	-35.57	-13.00	22.57	V
3285.02	-54.27	5.28	7.68	2.15	-54.02	-13.00	41.02	H
4125.02	-46.97	6.04	9.03	2.15	-46.13	-13.00	33.13	V
4952.01	-53.00	6.69	9.85	2.15	-51.99	-13.00	38.99	V
5772.01	-53.91	7.23	10.55	2.15	-52.74	-13.00	39.74	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1673.01	-48.10	3.58	5.19	2.15	-48.64	-13.00	35.64	H
2510.00	-31.95	4.63	6.12	2.15	-32.61	-13.00	19.61	V
3337.02	-54.05	5.31	7.81	2.15	-53.70	-13.00	40.70	H
4184.02	-44.61	6.17	9.08	2.15	-43.85	-13.00	30.85	V
5006.01	-52.17	6.59	9.91	2.15	-51.00	-13.00	38.00	H
5859.01	-50.73	7.26	10.53	2.15	-49.61	-13.00	36.61	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1697.01	-48.96	3.60	5.15	2.15	-49.56	-13.00	36.56	V
2545.00	-33.42	4.66	6.18	2.15	-34.05	-13.00	21.05	H
3387.02	-54.71	5.35	7.93	2.15	-54.28	-13.00	41.28	V
4243.02	-43.67	6.25	9.14	2.15	-42.93	-13.00	29.93	V
5090.01	-53.90	6.74	10.03	2.15	-52.76	-13.00	39.76	V
5944.01	-48.51	7.47	10.51	2.15	-47.62	-13.00	34.62	H

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4998.02	-53.82	6.61	9.90	-50.53	-25.00	25.53	H
7512.01	-53.78	8.34	12.21	-49.91	-25.00	24.91	H
10025.01	-44.22	9.25	12.91	-40.56	-25.00	15.56	H
12527.01	-49.27	10.25	13.22	-46.30	-25.00	21.30	V
15015.00	-45.22	11.24	13.99	-42.47	-25.00	17.47	H
17513.00	-44.02	12.77	14.92	-41.87	-25.00	16.87	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5089.02	-54.56	6.74	10.02	-51.28	-25.00	26.28	H
7609.01	-49.69	8.01	12.29	-45.41	-25.00	20.41	V
10157.01	-45.79	9.37	12.96	-42.20	-25.00	17.20	V
12681.01	-41.70	10.33	13.31	-38.72	-25.00	13.72	V
15228.00	-34.63	11.37	13.86	-32.14	-25.00	7.14	V
17752.00	-43.32	12.47	15.25	-40.54	-25.00	15.54	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5146.02	-55.69	6.88	10.10	-52.47	-25.00	27.47	V
7665.01	-54.43	8.27	12.33	-50.37	-25.00	25.37	V
10288.01	-49.56	9.60	13.02	-46.14	-25.00	21.14	H
12836.01	-47.78	10.67	13.40	-45.05	-25.00	20.05	V
15433.00	-37.57	11.44	13.74	-35.27	-25.00	10.27	H
17985.00	-44.06	12.90	15.58	-41.38	-25.00	16.38	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1392.01	-51.18	3.23	4.94	2.15	-51.62	-13.00	38.62	V
2099.00	-42.51	4.19	4.90	2.15	-43.95	-13.00	30.95	V
2808.00	-52.89	4.92	6.65	2.15	-53.31	-13.00	40.31	H
3504.02	-54.94	5.53	8.21	2.15	-54.41	-13.00	41.41	V
4189.02	-54.22	6.18	9.09	2.15	-53.46	-13.00	40.46	V
4907.01	-53.15	6.73	9.81	2.15	-52.22	-13.00	39.22	H

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1416.01	-51.66	3.26	5.06	2.15	-52.01	-13.00	39.01	V
2123.00	-49.03	4.21	4.97	2.15	-50.42	-13.00	37.42	H
2837.00	-52.37	4.95	6.71	2.15	-52.76	-13.00	39.76	H
3524.02	-54.60	5.56	8.23	2.15	-54.08	-13.00	41.08	V
4255.02	-54.55	6.24	9.16	2.15	-53.78	-13.00	40.78	H
4962.01	-54.01	6.67	9.86	2.15	-52.97	-13.00	39.97	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1431.01	-50.22	3.28	5.14	2.15	-50.51	-13.00	37.51	V
2146.00	-44.99	4.24	5.04	2.15	-46.34	-13.00	33.34	V
2847.00	-52.22	4.96	6.72	2.15	-52.61	-13.00	39.61	H
3573.02	-54.14	6.06	8.30	2.15	-54.05	-13.00	41.05	V
4296.02	-54.53	6.20	9.20	2.15	-53.68	-13.00	40.68	H
4993.01	-52.15	6.62	9.89	2.15	-51.03	-13.00	38.03	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1560.01	-50.27	3.47	5.39	2.15	-50.50	-13.00	37.50	V
2339.00	-32.76	4.44	5.62	2.15	-33.73	-13.00	20.73	V
3125.02	-53.04	5.40	7.30	2.15	-53.29	-13.00	40.29	V
3899.02	-47.50	6.11	8.76	2.15	-47.00	-13.00	34.00	H
4674.02	-54.40	6.48	9.57	2.15	-53.46	-13.00	40.46	V
5459.01	-54.61	6.90	10.54	2.15	-53.12	-13.00	40.12	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1552.01	-45.89	3.46	5.41	2.15	-46.09	-13.00	33.09	V
2346.00	-34.25	4.45	5.64	2.15	-35.21	-13.00	22.21	V
3137.02	-52.08	5.39	7.33	2.15	-52.29	-13.00	39.29	H
3911.02	-47.76	6.12	8.78	2.15	-47.25	-13.00	34.25	H
4680.02	-53.69	6.49	9.58	2.15	-52.75	-13.00	39.75	H
5474.01	-54.24	6.96	10.56	2.15	-52.79	-13.00	39.79	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1570.01	-51.19	3.48	5.37	2.15	-51.45	-13.00	38.45	H
2354.00	-33.03	4.46	5.66	2.15	-33.98	-13.00	20.98	V
3128.02	-52.95	5.40	7.31	2.15	-53.19	-13.00	40.19	V
3924.02	-45.86	6.12	8.79	2.15	-45.34	-13.00	32.34	H
4692.02	-54.15	6.50	9.59	2.15	-53.21	-13.00	40.21	V
5481.01	-54.26	6.99	10.57	2.15	-52.83	-13.00	39.83	H

LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4616.02	-63.07	6.45	9.52	-60.00	-40.00	20.00	V
6924.01	-61.32	7.72	11.51	-57.53	-40.00	17.53	V
9231.01	-56.77	9.00	13.24	-52.53	-40.00	12.53	V
11542.01	-58.34	9.81	13.09	-55.06	-40.00	15.06	V
13846.01	-56.71	10.70	14.41	-53.00	-40.00	13.00	V
16160.00	-53.88	11.78	13.67	-51.99	-40.00	11.99	H

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4627.02	-60.88	6.45	9.53	-57.80	-40.00	17.80	V
6937.01	-57.76	7.81	11.52	-54.05	-40.00	14.05	V
9251.01	-57.07	9.04	13.25	-52.86	-40.00	12.86	V
11551.01	-56.83	9.81	13.09	-53.55	-40.00	13.55	V
13862.01	-55.86	10.73	14.42	-52.17	-40.00	12.17	V
16152.00	-53.72	11.79	13.67	-51.84	-40.00	11.84	H

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4624.02	-63.20	6.45	9.52	-60.13	-40.00	20.13	V
6937.01	-59.38	7.81	11.52	-55.67	-40.00	15.67	V
9249.01	-57.05	9.04	13.25	-52.84	-40.00	12.84	V
11562.01	-55.92	9.80	13.09	-52.63	-40.00	12.63	V
13875.01	-55.42	10.75	14.43	-51.74	-40.00	11.74	V
16189.00	-53.86	11.74	13.66	-51.94	-40.00	11.94	H

LTE Band 38, 5MHz, QPSK, Channel 37775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5147.02	-47.85	6.88	10.11	-44.62	-25.00	19.62	V
7722.01	-37.91	8.40	12.38	-33.93	-25.00	8.93	V
10297.01	-50.14	9.63	13.02	-46.75	-25.00	21.75	V
12889.01	-47.57	10.54	13.43	-44.68	-25.00	19.68	V
15440.00	-43.73	11.45	13.74	-41.44	-25.00	16.44	H
17985.00	-43.98	12.90	15.58	-41.30	-25.00	16.30	V

LTE Band 38, 5MHz, QPSK, Channel 38000

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5192.02	-50.86	6.95	10.17	-47.64	-25.00	22.64	V
7790.01	-33.58	8.30	12.43	-29.45	-25.00	4.45	V
10394.01	-43.43	9.79	13.06	-40.16	-25.00	15.16	V
12999.01	-38.24	10.47	13.50	-35.21	-25.00	10.21	V
15540.00	-44.08	11.51	13.70	-41.89	-25.00	16.89	H
16850.00	-42.50	12.06	13.74	-40.82	-25.00	15.82	V

LTE Band 38, 5MHz, QPSK, Channel 38225

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5237.02	-48.94	7.00	10.23	-45.71	-25.00	20.71	V
7856.01	-35.76	8.37	12.48	-31.65	-25.00	6.65	V
10471.01	-48.01	9.70	13.09	-44.62	-25.00	19.62	V
13098.01	-44.48	10.93	13.64	-41.77	-25.00	16.77	V
15732.00	-44.01	11.62	13.70	-41.93	-25.00	16.93	V
16992.00	-42.75	12.34	13.80	-41.29	-25.00	16.29	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4998.02	-47.62	6.61	9.90	-44.33	-25.00	19.33	V
7500.01	-38.67	8.39	12.20	-34.86	-25.00	9.86	V
9995.01	-44.46	9.18	12.90	-40.74	-25.00	15.74	V
12493.01	-49.60	10.19	13.20	-46.59	-25.00	21.59	V
14995.00	-46.73	11.21	14.00	-43.94	-25.00	18.94	H
17488.00	-44.63	12.70	14.87	-42.46	-25.00	17.46	V

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5187.02	-48.37	6.94	10.16	-45.15	-25.00	20.15	V
7783.01	-36.49	8.31	12.43	-32.37	-25.00	7.37	V
10391.01	-42.85	9.79	13.06	-39.58	-25.00	14.58	V
12976.01	-41.55	10.48	13.49	-38.54	-25.00	13.54	V
15578.00	-44.15	11.49	13.70	-41.94	-25.00	16.94	H
16866.00	-42.55	12.04	13.75	-40.84	-25.00	15.84	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5376.02	-45.14	6.88	10.43	-41.59	-25.00	16.59	V
8065.01	-38.61	8.32	12.65	-34.28	-25.00	9.28	V
10754.01	-38.94	9.44	13.15	-35.23	-25.00	10.23	V
13463.01	-36.67	10.62	14.15	-33.14	-25.00	8.14	V
16144.00	-43.37	11.80	13.67	-41.50	-25.00	16.50	H
17487.00	-44.38	12.69	14.87	-42.20	-25.00	17.20	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-60.51	5.38	8.01	-57.88	-13.00	44.88	H
5137.02	-65.11	6.86	10.09	-61.88	-13.00	48.88	H
6849.01	-60.74	7.83	11.42	-57.15	-13.00	44.15	V
8560.01	-60.88	8.56	13.01	-56.43	-13.00	43.43	V
10281.01	-55.10	9.58	13.01	-51.67	-13.00	38.67	V
12026.01	-59.84	10.13	13.01	-56.96	-13.00	43.96	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3490.02	-59.55	5.50	8.18	-56.87	-13.00	43.87	H
5240.02	-66.25	7.00	10.24	-63.01	-13.00	50.01	H
6986.01	-58.51	8.19	11.58	-55.12	-13.00	42.12	V
8731.01	-63.80	8.45	13.05	-59.20	-13.00	46.20	V
10472.01	-57.03	9.69	13.09	-53.63	-13.00	40.63	H
12250.01	-59.74	10.03	13.10	-56.67	-13.00	43.67	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3559.02	-54.00	5.92	8.28	-51.64	-13.00	38.64	V
5344.02	-60.17	6.95	10.38	-56.74	-13.00	43.74	V
7124.01	-49.53	8.17	11.75	-45.95	-13.00	32.95	V
8903.01	-59.71	8.86	13.08	-55.49	-13.00	42.49	V
10677.01	-53.86	9.30	13.14	-50.02	-13.00	37.02	V
12475.01	-59.43	10.24	13.19	-56.48	-13.00	43.48	V

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 5.16$ dB, $k = 2$.

*****END OF REPORT*****