TEST REPORT

No. B20N00042-RF-LTE

for

i.safe MOBILE GmbH

LTE SMARTPHONE

Model Name: M33A01

FCC ID: 2AACZ-M33A01

with

Hardware Version: V1.00

Software Version:

LA6925(IS330)_IS330_EEA_1.0.0.0.0_1_20200103_MultiDownload_2

02001101536_user

Issued Date: 2020-04-17

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 SAICT.

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REPORT HISTORY

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B20N00042-RF-LTE	Rev.0	1st edition	2020-04-17

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1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	LTE SMARTPHONE
Model Name	M33A01
Applicant's name	i.safe MOBILE GmbH
Manufacturer's Name	i.safe MOBILE GmbH

1.2. Test Standards

FCC Part 2/22/24/27/90/95/97/101	10-1-18 Edition
ANSI C63.26	2015
KDB971168 D01	v03r01

1.3. Test Result

All test items are pass. Please refer to "6 Summary Of Test Results" for detail.

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data

Testing Start Date:	2020-01-08
Testing End Date:	2020-04-15

1.6. Signature

Lai Minghua
(Prepared this test report)

Huang Qiuqin
(Reviewed this test report)

Zhang Hao
(Approved this test report)

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2. CLIENT INFORMATION

2.1. Applicant Information

Company Name:	i.safe MOBILE GmbH
Address /Post:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany
Contact Person:	Dirk Amann
Contact Email	dirk.amann@isafe-mobile.com
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2.2. Manufacturer Information

Company Name:	i.safe MOBILE GmbH
Address /Post:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany
Contact Person:	Dirk Amann
Contact Email	dirk.amann@isafe-mobile.com
Telephone:	+491703719004
Fax:	/

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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	LTE SMARTPHONE
Model Name	M33A01
FCC ID	2AACZ-M33A01
Frequency Bands	LTE Bands 2,4,5,7,12,13,14,17,25,26,30,38,41,66,CA_5B, CA_41C
Antenna	Integrated
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.8VDC)
Extreme temp. Tolerance	-10°C to +50°C
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Sample Arrival Date
UT08aa	351740110008840	V1.00	LA6925(IS330)_IS330_EEA_1.0.0.0.0_1_20200103_MultiDownload_202001101536_user	2020-01-08
UT01aa	351740110010341	V1.00	LA6925(IS330)_IS330_EEA_1.0.0.0.0_1_20200103_MultiDownload_202001101536_user	2020-01-08

*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
AE2	Charger

AE1

Model	MBP33A01
Manufacturer	Shenzhen 3Sun Electronics Co.,Ltd.
Capacitance	4050mAh
Nominal Voltage	3.7V

AE2

Model	ICP12-050-2000B
Manufacturer	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.

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

3.4. General Description

The Equipment Under Test (EUT) is a model LTE SMARTPHONE with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.

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4. REFERENCE DOCUMENTS

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

Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-18 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-18 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-18 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-18 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-18 Edition
FCC Part 95	PERSONAL RADIO SERVICES	10-1-18 Edition
FCC Part 97	AMATEUR RADIO SERVICE	10-1-18 Edition
FCC Part 101	FIXED MICROWAVE SERVICES	10-1-18 Edition
ANSI C63.26	American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio Service	2015
KDB971168 D01	Power Meas License Digital Systems	v03r01

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5. LABORATORY ENVIRONMENT

Shielded room did not exceed following limits along the RF testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz>60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio （VSWR）	≤ 6 dB, from 1 to 18 GHz，3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured
Location Column	A/B/C/D	The test is performed in test location A, B, C or D which are described in section 1.4 of this report

LTE Band 2

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/24.232	A.1	P
2	Field Strength of Spurious Radiation	2.1053/24.238	A.2	P
3	Frequency Stability	2.1055/24.235	A.3	P
4	Occupied Bandwidth	2.1049/24.238	A.4	P
5	Emission Bandwidth	2.1049/24.238	A.5	P
6	Band Edge Compliance	2.1051/24.238	A.6	P
7	Conducted Spurious Emission	2.1051/24.238	A.7	P
8	Peak-to-Average Power Ratio	24.232/ KDB971168 D01	A.8	P

LTE Band 4

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(d)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(h)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(h)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(h)	A.7	P
8	Peak-to-Average Power Ratio	27.50(d)/ KDB971168 D01	A.8	P

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LTE Band 5

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE Band 7

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 12

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(c)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(g)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(g)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(g)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

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LTE Band 13

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(b)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(c)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(c)	A.4	P
5	Emission Bandwidth	2.1049/27.53(c)	A.5	P
6	Band Edge Compliance	2.1051/27.53(c)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(c)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 14

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/90.542	A.1	P
2	Field Strength of Spurious Radiation	2.1053/90.543	A.2	P
3	Frequency Stability	2.1055/90.539	A.3	P
4	Occupied Bandwidth	2.1049/90.535	A.4	P
5	Emission Bandwidth	2.1049/90.535	A.5	P
6	Band Edge Compliance	2.1051/90.535	A.6	P
7	Conducted Spurious Emission	2.1051/90.535	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE Band 17

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(c)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(g)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(g)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(g)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

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LTE Band 25

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/24.232	A.1	P
2	Field Strength of Spurious Radiation	2.1053/24.238	A.2	P
3	Frequency Stability	2.1055/24.235	A.3	P
4	Occupied Bandwidth	2.1049/24.238	A.4	P
5	Emission Bandwidth	2.1049/24.238	A.5	P
6	Band Edge Compliance	2.1051/24.238	A.6	P
7	Conducted Spurious Emission	2.1051/24.238	A.7	P
8	Peak-to-Average Power Ratio	24.232/ KDB971168 D01	A.8	P

LTE Band 26(814MHz-824MHz)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/90.635	A.1	P
2	Field Strength of Spurious Radiation	2.1053/90.691	A.2	P
3	Frequency Stability	2.1055/90.213	A.3	P
4	Occupied Bandwidth	2.1049/90.1215	A.4	P
5	Emission Bandwidth	2.1049/90.1215	A.5	P
6	Band Edge Compliance	2.1051/90.691	A.6	P
7	Conducted Spurious Emission	2.1051/90.691	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE band 26(824MHz-849MHz)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

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LTE Band 30

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(a)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(a)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(a)	A.4	P
5	Emission Bandwidth	2.1049/27.53(a)	A.5	P
6	Band Edge Compliance	2.1051/27.53(a)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(a)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 38

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 41

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

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LTE Band 66

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(d)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(h)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(h)	A.4	P
5	Emission Bandwidth	2.1049/27.53(h)	A.5	P
6	Band Edge Compliance	2.1051/27.53(h)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(h)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band CA_5B

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE Band CA_41C

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

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7. STATEMENT

Since the information of samples in this report is provided by the client, the laboratory is not respo nsible for the authenticity of sample information.

This report takes measured values as criterion of test conclusion. The test conlusion meets the li mit requirements.

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8. TEST EQUIPMENTS UTILIZED

NO.	Description	Type	Manufacture	Series Number	Cal Due Date
1	Test Receiver	ESR7	R&S	101676	2020-11-27
2	BiLog Antenna	3142E	ETS	00224831	2021-05-17
3	Horn Antenna	3117	ETS-lindgren	00066577	2022-04-02
4	Antenna	BBHA 9120D	Schwarzbeck	1593	2022-12-05
5	Antenna	VUBA 9117	Schwarzbeck	207	2020-07-16
6	preamplifier	83017A	Agilent	MY39501110	/
7	Signal Generator	SMB100A	R&S	179725	2020-11-27
8	Fully Anechoic Chamber	FACT3-2.0	ETS-Lindgren	1285	2021-07-19
9	Spectrum Analyzer	FSV40	R&S	101192	2021-01-14
10	Universal Radio Communication Tester	CMW500	R&S	152499	2020-07-17
11	Horn Antenna	QSH-SL-18 -26-S-20	Q-par	17013	2023.01.06
12	Horn Antenna	QSH-SL-18 -40-K-SG	Q-par	15979	2023.01.06
13	Universal Radio Communication Tester	CMW500	R&S	129146	2020-04-24
14	Spectrum Analyzer	FSU	R&S	101506	2020-12-13
15	Temperature Chamber	SH-241	ESPECs	92007516	2020-10-15
16	DC Power Supply	U3606A	Agilent Technologies	MY50450012	2020-11-13

Test software

Item	Name	Vesion
Radiated	EMC32	Version 10.01.00

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ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

Reference

FCC: CFR Part 2.1046, 22.913, 24.232, 27.50, 90.542,90.635.

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/EIRP measurements for the EUT.

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

A.1.2.2 Measurement result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	22.52	21.54	21.34
		1880.0	22.55	21.77	21.52
		1850.7	22.57	21.83	21.59
	1 RB low	1909.3	22.51	21.52	21.26
		1880.0	22.57	21.79	21.52
		1850.7	22.62	21.85	21.57
	50% RB mid	1909.3	22.66	21.50	21.27
		1880.0	22.67	21.69	21.46
		1850.7	22.69	21.74	21.50
	100% RB	1909.3	21.66	20.68	20.47
		1880.0	21.66	20.79	20.58
		1850.7	21.66	20.83	20.59
3MHz	1 RB high	1908.5	22.49	21.57	21.28
		1880.0	22.68	21.89	21.62
		1851.5	22.60	21.81	21.61
	1 RB low	1908.5	22.56	21.69	21.41
		1880.0	22.65	21.84	21.60
		1851.5	22.64	21.84	21.60
	50% RB mid	1908.5	21.67	20.70	20.50
		1880.0	21.78	20.86	20.65
		1851.5	21.75	20.84	20.61

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	100% RB	1908.5	21.69	20.69	20.47
		1880.0	21.82	20.87	20.66
		1851.5	21.72	20.81	20.52
5MHz	1 RB high	1907.5	22.58	21.59	21.33
		1880.0	22.64	21.85	21.61
		1852.5	22.60	21.87	21.67
	1 RB low	1907.5	22.52	21.66	21.41
		1880.0	22.67	21.90	21.66
		1852.5	22.63	21.88	21.65
	50% RB mid	1907.5	21.65	20.70	20.43
		1880.0	21.79	20.84	20.55
		1852.5	21.73	20.82	20.56
	100% RB	1907.5	21.69	20.68	20.41
		1880.0	21.80	20.81	20.57
		1852.5	21.72	20.80	20.59
10MHz	1 RB high	1905.0	22.60	21.61	21.39
		1880.0	22.73	21.99	21.78
		1855.0	22.71	22.02	21.78
	1 RB low	1905.0	22.52	21.74	21.52
		1880.0	22.76	22.00	21.71
		1855.0	22.73	21.98	21.77
	50% RB mid	1905.0	21.66	20.72	20.46
		1880.0	21.80	20.86	20.57
		1855.0	21.78	20.82	20.58
	100% RB	1905.0	21.65	20.73	20.48
		1880.0	21.78	20.85	20.59
		1855.0	21.74	20.82	20.54
15MHz	1 RB high	1902.5	22.48	21.59	21.29
		1880.0	22.64	21.95	21.69
		1857.5	22.55	21.87	21.63
	1 RB low	1902.5	22.55	21.86	21.61
		1880.0	22.63	21.93	21.67
		1857.5	22.61	21.93	21.68
	50% RB mid	1902.5	21.61	20.70	20.49
		1880.0	21.77	20.86	20.63
		1857.5	21.74	20.86	20.57
	100% RB	1902.5	21.57	20.65	20.36
		1880.0	21.72	20.82	20.55
		1857.5	21.62	20.72	20.42

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20MHz	1 RB high	1900.0	22.53	21.58	21.37
		1880.0	22.69	21.99	21.72
		1860.0	22.58	21.93	21.72
	1 RB low	1900.0	22.56	21.88	21.63
		1880.0	22.67	22.00	21.77
		1860.0	22.65	21.91	21.67
	50% RB mid	1900.0	21.62	20.72	20.43
		1880.0	21.78	20.85	20.57
		1860.0	21.68	20.78	20.49
	100% RB	1900.0	21.58	20.70	20.40
		1880.0	21.79	20.82	20.62
		1860.0	21.63	20.70	20.46

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	22.36	21.64	20.65
		1732.5	22.39	21.74	20.75
		1710.7	22.28	21.50	20.51
	1 RB low	1754.3	22.36	21.66	20.67
		1732.5	22.40	21.74	20.76
		1710.7	22.29	21.55	20.56
	50% RB mid	1754.3	22.46	21.54	20.56
		1732.5	22.47	21.56	20.58
		1710.7	22.40	21.41	20.43
	100% RB	1754.3	21.44	20.65	19.66
		1732.5	21.47	20.65	19.67
		1710.7	21.39	20.54	19.56
3MHz	1 RB high	1753.5	22.39	21.71	20.73
		1732.5	22.45	21.79	20.80
		1711.5	22.31	21.60	20.61
	1 RB low	1753.5	22.41	21.74	20.75
		1732.5	22.46	21.72	20.73
		1711.5	22.37	21.58	20.60
	50% RB mid	1753.5	21.52	20.71	19.73
		1732.5	21.54	20.72	19.74
		1711.5	21.45	20.58	19.60
	100% RB	1753.5	21.50	20.60	19.62
		1732.5	21.55	20.66	19.67
		1711.5	21.45	20.57	19.59
5MHz	1 RB high	1752.5	22.38	21.74	20.76
		1732.5	22.43	21.76	20.77
		1712.5	22.33	21.57	20.58
	1 RB low	1752.5	22.41	21.69	20.70
		1732.5	22.47	21.78	20.80
		1712.5	22.35	21.64	20.65
	50% RB mid	1752.5	21.53	20.64	19.66
		1732.5	21.57	20.70	19.71
		1712.5	21.48	20.56	19.58
	100% RB	1752.5	21.49	20.60	19.61
		1732.5	21.54	20.64	19.65
		1712.5	21.44	20.50	19.52
10MHz	1 RB high	1750.0	22.41	21.65	20.67

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		1732.5	22.45	21.76	20.77
		1715.0	22.31	21.63	20.65
	1 RB low	1750.0	22.44	21.79	20.81
		1732.5	22.49	21.83	20.85
		1715.0	22.37	21.61	20.62
	50% RB mid	1750.0	21.52	20.61	19.62
		1732.5	21.54	20.67	19.68
		1715.0	21.47	20.55	19.56
	100% RB	1750.0	21.48	20.59	19.61
		1732.5	21.51	20.63	19.64
		1715.0	21.45	20.53	19.55
15MHz	1 RB high	1747.5	22.37	21.67	20.72
		1732.5	22.41	21.80	20.84
		1717.5	22.39	21.70	20.75
	1 RB low	1747.5	22.52	21.91	20.95
		1732.5	22.49	21.82	20.86
		1717.5	22.33	21.64	20.68
	50% RB mid	1747.5	21.48	20.61	19.65
		1732.5	21.56	20.67	19.72
		1717.5	21.53	20.62	19.66
	100% RB	1747.5	21.57	20.69	19.73
		1732.5	21.51	20.66	19.70
		1717.5	21.51	20.61	19.65
20MHz	1 RB high	1745.0	22.36	21.71	20.75
		1732.5	22.42	21.70	20.75
		1720.0	22.37	21.75	20.80
	1 RB low	1745.0	22.53	21.88	20.93
		1732.5	22.49	21.75	20.80
		1720.0	22.34	21.63	20.67
	50% RB mid	1745.0	21.56	20.69	19.73
		1732.5	21.54	20.67	19.71
		1720.0	21.54	20.65	19.69
	100% RB	1745.0	21.54	20.66	19.70
		1732.5	21.52	20.64	19.68
		1720.0	21.49	20.60	19.64

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	22.84	22.15	21.86
		836.5	22.87	22.20	21.94
		824.7	22.94	22.28	22.01
	1 RB low	848.3	22.88	22.17	21.95
		836.5	22.92	22.26	22.04
		824.7	22.98	22.33	22.03
	50% RB mid	848.3	22.93	22.01	21.71
		836.5	22.97	22.07	21.85
		824.7	23.07	22.15	21.91
	100% RB	848.3	21.92	21.07	20.81
		836.5	21.94	21.13	20.88
		824.7	22.00	21.19	20.90
3MHz	1 RB high	847.5	22.91	22.24	22.02
		836.5	23.05	22.46	22.16
		825.5	23.00	22.25	21.99
	1 RB low	847.5	22.95	22.29	22.06
		836.5	22.98	22.36	22.06
		825.5	23.06	22.37	22.17
	50% RB mid	847.5	22.01	21.15	20.88
		836.5	22.05	21.23	21.03
		825.5	22.06	21.20	20.97
	100% RB	847.5	21.99	21.11	20.84
		836.5	22.01	21.15	20.91
		825.5	22.07	21.15	20.92
5MHz	1 RB high	846.5	22.95	22.22	21.96
		836.5	23.09	22.42	22.13
		826.5	23.06	22.37	22.08
	1 RB low	846.5	22.95	22.15	21.90
		836.5	23.07	22.36	22.15
		826.5	23.08	22.43	22.19
	50% RB mid	846.5	21.95	21.05	20.82
		836.5	22.13	21.21	21.00
		826.5	22.21	21.30	21.01
	100% RB	846.5	21.95	21.03	20.74
		836.5	22.06	21.17	20.92
		826.5	22.19	21.29	21.05
10MHz	1 RB high	844.0	22.99	22.32	22.08

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		836.5	23.07	22.35	22.07
		829.0	23.15	22.44	22.24
	1 RB low	844.0	22.99	22.32	22.11
		836.5	23.04	22.36	22.14
		829.0	23.11	22.46	22.21
	50% RB mid	844.0	22.09	21.13	20.85
		836.5	22.15	21.22	21.01
		829.0	22.18	21.25	21.02
	100% RB	844.0	22.06	21.09	20.86
		836.5	22.12	21.19	20.95
		829.0	22.16	21.25	21.03

Note: Expanded measurement uncertainty is U = 0.488dB, k = 1.96

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LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	22.75	22.11	21.82
		2535.0	22.88	22.22	21.99
		2502.5	22.87	22.24	21.98
	1 RB low	2567.5	22.72	22.12	21.91
		2535.0	22.87	22.18	21.95
		2502.5	22.83	22.14	21.88
	50% RB mid	2567.5	21.83	20.93	20.68
		2535.0	21.94	21.02	20.76
		2502.5	21.86	20.98	20.69
	100% RB	2567.5	21.80	20.88	20.67
		2535.0	21.89	21.03	20.78
		2502.5	21.86	20.94	20.65
10MHz	1 RB high	2565.0	22.81	22.14	21.93
		2535.0	22.90	22.27	21.99
		2505.0	22.94	22.35	22.12
	1 RB low	2565.0	22.71	22.11	21.89
		2535.0	22.85	22.20	22.00
		2505.0	22.79	22.18	21.91
	50% RB mid	2565.0	21.80	20.93	20.72
		2535.0	21.94	21.02	20.77
		2505.0	21.96	21.09	20.88
	100% RB	2565.0	21.80	20.91	20.67
		2535.0	21.93	21.04	20.81
		2505.0	21.95	21.08	20.82
15MHz	1 RB high	2562.5	22.84	22.20	21.98
		2535.0	22.95	22.31	22.08
		2507.5	22.98	22.32	22.10
	1 RB low	2562.5	22.69	22.15	21.92
		2535.0	22.77	22.10	21.82
		2507.5	22.81	22.15	21.90
	50% RB mid	2562.5	21.82	21.00	20.77
		2535.0	21.95	21.03	20.75
		2507.5	21.95	21.08	20.84
	100% RB	2562.5	21.81	20.94	20.72
		2535.0	21.91	21.06	20.83
		2507.5	21.95	21.08	20.82

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20MHz	1 RB high	2560.0	22.87	22.24	21.95
		2535.0	22.90	22.28	22.02
		2510.0	23.06	22.39	22.16
	1 RB low	2560.0	22.72	22.13	21.91
		2535.0	22.81	22.12	21.89
		2510.0	22.83	22.18	21.97
	50% RB mid	2560.0	21.78	20.98	20.68
		2535.0	21.97	21.10	20.80
		2510.0	21.96	21.10	20.88
	100% RB	2560.0	21.80	20.96	20.67
		2535.0	21.96	21.06	20.76
		2510.0	21.96	21.09	20.85

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.04	22.32	22.03
		707.5	22.98	22.42	22.18
		699.7	22.91	22.28	22.04
	1 RB low	715.3	23.07	22.30	22.02
		707.5	23.00	22.41	22.17
		699.7	22.85	22.19	21.90
	50% RB mid	715.3	23.14	22.20	21.90
		707.5	23.07	22.19	21.95
		699.7	22.90	22.02	21.75
	100% RB	715.3	22.13	21.25	21.00
		707.5	21.99	21.19	20.96
		699.7	21.96	21.15	20.91
3MHz	1 RB high	714.5	23.13	22.42	22.15
		707.5	23.04	22.45	22.21
		700.5	22.95	22.31	22.04
	1 RB low	714.5	23.05	22.40	22.10
		707.5	23.02	22.42	22.20
		700.5	22.94	22.27	22.01
	50% RB mid	714.5	22.09	21.22	20.99
		707.5	22.12	21.33	21.04
		700.5	22.04	21.21	20.96
	100% RB	714.5	22.09	21.18	20.98
		707.5	22.09	21.24	20.95
		700.5	22.03	21.15	20.88
5MHz	1 RB high	713.5	23.18	22.42	22.19
		707.5	23.15	22.55	22.27
		701.5	23.04	22.38	22.18
	1 RB low	713.5	23.06	22.43	22.22
		707.5	23.04	22.40	22.18
		701.5	22.93	22.27	22.06
	50% RB mid	713.5	22.20	21.24	21.00
		707.5	22.17	21.32	21.08
		701.5	22.16	21.25	20.96
	100% RB	713.5	22.13	21.22	20.93
		707.5	22.13	21.22	20.94
		701.5	22.13	21.20	20.97
10MHz	1 RB high	711.0	23.28	22.50	22.26

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		707.5	23.17	22.48	22.21
		704.0	23.17	22.53	22.32
	1 RB low	711.0	23.07	22.44	22.18
		707.5	23.07	22.45	22.16
		704.0	22.93	22.25	21.96
	50% RB mid	711.0	22.21	21.29	21.03
		707.5	22.19	21.31	21.08
		704.0	22.21	21.29	21.05
	100% RB	711.0	22.20	21.27	20.97
		707.5	22.16	21.25	21.02
		704.0	22.18	21.29	21.07

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	22.98	22.34	22.08
		782.0	22.97	22.36	22.14
		779.5	23.04	22.24	21.98
	1 RB low	784.5	23.02	22.12	21.88
		782.0	23.00	22.39	22.13
		779.5	22.92	22.06	21.76
	50% RB mid	784.5	22.03	21.16	20.88
		782.0	22.10	21.09	20.79
		779.5	22.13	21.26	21.04
	100% RB	784.5	22.02	21.12	20.83
		782.0	22.14	21.17	20.87
		779.5	22.03	21.14	20.92
10MHz	1 RB high	782.0	23.03	22.41	22.13
	1 RB low	782.0	22.69	21.95	21.67
	50% RB mid	782.0	22.16	21.22	20.99
	100% RB	782.0	22.13	21.10	20.90

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 14

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	795.5	23.05	22.37	22.14
		793.0	23.06	22.47	22.25
		790.5	23.00	22.24	21.95
	1 RB low	795.5	23.02	22.33	22.10
		793.0	23.06	22.27	22.04
		790.5	23.04	22.39	22.12
	50% RB mid	795.5	22.06	21.17	20.93
		793.0	22.09	21.16	20.89
		790.5	22.15	21.24	21.00
	100% RB	795.5	22.02	21.12	20.86
		793.0	22.09	21.17	20.94
		790.5	22.19	21.22	20.93
10MHz	1 RB high	793.0	22.96	22.36	22.09
	1 RB low	793.0	23.02	22.36	22.11
	50% RB mid	793.0	22.10	21.14	20.90
	100% RB	793.0	22.05	21.18	20.95

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 17

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	713.5	23.18	22.42	22.19
		710.0	23.15	22.55	22.27
		706.5	23.04	22.38	22.18
	1 RB low	713.5	23.06	22.43	22.22
		710.0	23.04	22.40	22.18
		706.5	22.93	22.27	22.06
	50% RB mid	713.5	22.20	21.24	21.00
		710.0	22.17	21.32	21.08
		706.5	22.16	21.25	20.96
	100% RB	713.5	22.13	21.22	20.93
		710.0	22.13	21.22	20.94
		706.5	22.13	21.20	20.97
10MHz	1 RB high	711.0	23.28	22.50	22.26
		710.0	23.17	22.48	22.21
		709.0	23.17	22.53	22.32
	1 RB low	711.0	23.07	22.44	22.18
		710.0	23.07	22.45	22.16
		709.0	22.93	22.25	21.96
	50% RB mid	711.0	22.21	21.29	21.03
		710.0	22.19	21.31	21.08
		709.0	22.21	21.29	21.05
	100% RB	711.0	22.20	21.27	20.97
		710.0	22.16	21.25	21.02
		709.0	22.18	21.29	21.07

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	22.52	21.54	21.34
		1882.5	22.55	21.77	21.52
		1850.7	22.57	21.83	21.59
	1 RB low	1914.3	22.51	21.52	21.26
		1882.5	22.57	21.79	21.52
		1850.7	22.62	21.85	21.57
	50% RB mid	1914.3	22.66	21.50	21.27
		1882.5	22.67	21.69	21.46
		1850.7	22.69	21.74	21.50
	100% RB	1914.3	21.66	20.68	20.47
		1882.5	21.66	20.79	20.58
		1850.7	21.66	20.83	20.59
3MHz	1 RB high	1913.5	22.49	21.57	21.28
		1882.5	22.68	21.89	21.62
		1851.5	22.60	21.81	21.61
	1 RB low	1913.5	22.56	21.69	21.41
		1882.5	22.65	21.84	21.60
		1851.5	22.64	21.84	21.60
	50% RB mid	1913.5	21.67	20.70	20.50
		1882.5	21.78	20.86	20.65
		1851.5	21.75	20.84	20.61
	100% RB	1913.5	21.69	20.69	20.47
		1882.5	21.82	20.87	20.66
		1851.5	21.72	20.81	20.52
5MHz	1 RB high	1912.5	22.58	21.59	21.33
		1882.5	22.64	21.85	21.61
		1852.5	22.60	21.87	21.67
	1 RB low	1912.5	22.52	21.66	21.41
		1882.5	22.67	21.90	21.66
		1852.5	22.63	21.88	21.65
	50% RB mid	1912.5	21.65	20.70	20.43
		1882.5	21.79	20.84	20.55
		1852.5	21.73	20.82	20.56
	100% RB	1912.5	21.69	20.68	20.41
		1882.5	21.80	20.81	20.57
		1852.5	21.72	20.80	20.59
10MHz	1 RB high	1910.0	22.60	21.61	21.39

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		1882.5	22.73	21.99	21.78
		1855.0	22.71	22.02	21.78
	1 RB low	1910.0	22.52	21.74	21.52
		1882.5	22.76	22.00	21.71
		1855.0	22.73	21.98	21.77
	50% RB mid	1910.0	21.66	20.72	20.46
		1882.5	21.80	20.86	20.57
		1855.0	21.78	20.82	20.58
	100% RB	1910.0	21.65	20.73	20.48
		1882.5	21.78	20.85	20.59
		1855.0	21.74	20.82	20.54
15MHz	1 RB high	1907.5	22.48	21.59	21.29
		1882.5	22.64	21.95	21.69
		1857.5	22.55	21.87	21.63
	1 RB low	1907.5	22.55	21.86	21.61
		1882.5	22.63	21.93	21.67
		1857.5	22.61	21.93	21.68
	50% RB mid	1907.5	21.61	20.70	20.49
		1882.5	21.77	20.86	20.63
		1857.5	21.74	20.86	20.57
	100% RB	1907.5	21.57	20.65	20.36
		1882.5	21.72	20.82	20.55
		1857.5	21.62	20.72	20.42
20MHz	1 RB high	1905.0	22.53	21.58	21.37
		1882.5	22.69	21.99	21.72
		1860.0	22.58	21.93	21.72
	1 RB low	1905.0	22.56	21.88	21.63
		1882.5	22.67	22.00	21.77
		1860.0	22.65	21.91	21.67
	50% RB mid	1905.0	21.62	20.72	20.43
		1882.5	21.78	20.85	20.57
		1860.0	21.68	20.78	20.49
	100% RB	1905.0	21.58	20.70	20.40
		1882.5	21.79	20.82	20.62
		1860.0	21.63	20.70	20.46

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 26(814MHz-824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	22.79	22.12	21.91
		819.0	22.90	22.22	21.98
		814.7	23.01	22.25	21.98
	1 RB low	823.3	22.83	22.14	21.85
		819.0	22.91	22.25	21.97
		814.7	23.02	22.26	22.04
	50% RB mid	823.3	22.91	21.97	21.76
		819.0	22.98	22.10	21.89
		814.7	23.11	22.12	21.89
	100% RB	823.3	21.88	21.03	20.83
		819.0	21.95	21.14	20.87
		814.7	22.05	21.22	20.93
3MHz	1 RB high	822.5	22.85	22.15	21.87
		819.0	22.94	22.31	22.04
		815.5	22.52	21.79	21.50
	1 RB low	822.5	22.92	22.18	21.92
		819.0	22.94	22.29	22.04
		815.5	22.52	21.77	21.50
	50% RB mid	822.5	21.97	21.12	20.88
		819.0	22.05	21.19	20.97
		815.5	21.66	20.78	20.56
	100% RB	822.5	21.95	21.06	20.78
		819.0	22.02	21.15	20.87
		815.5	21.63	20.76	20.54
5MHz	1 RB high	821.5	22.88	22.14	21.87
		819.0	22.93	22.29	22.05
		816.5	23.08	22.43	22.18
	1 RB low	821.5	22.98	22.18	21.92
		819.0	22.91	22.20	21.99
		816.5	23.09	22.29	22.01
	50% RB mid	821.5	22.00	21.08	20.87
		819.0	22.03	21.13	20.90
		816.5	22.09	21.22	20.99
	100% RB	821.5	22.00	21.09	20.86
		819.0	22.04	21.13	20.90
		816.5	22.18	21.25	21.05
10MHz	1 RB high	819.0	23.02	22.40	22.14

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	1 RB low	819.0	22.93	22.28	21.99
	50% RB mid	819.0	22.09	21.18	20.91
	100% RB	819.0	22.08	21.16	20.94

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 26(824MHz-849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	22.79	22.12	21.91
		836.5	22.90	22.22	21.98
		824.7	23.01	22.25	21.98
	1 RB low	848.3	22.83	22.14	21.85
		836.5	22.91	22.25	21.97
		824.7	23.02	22.26	22.04
	50% RB mid	848.3	22.91	21.97	21.76
		836.5	22.98	22.10	21.89
		824.7	23.11	22.12	21.89
	100% RB	848.3	21.88	21.03	20.83
		836.5	21.95	21.14	20.87
		824.7	22.05	21.22	20.93
3MHz	1 RB high	847.5	22.85	22.15	21.87
		836.5	22.94	22.31	22.04
		825.5	22.52	21.79	21.50
	1 RB low	847.5	22.92	22.18	21.92
		836.5	22.94	22.29	22.04
		825.5	22.52	21.77	21.50
	50% RB mid	847.5	21.97	21.12	20.88
		836.5	22.05	21.19	20.97
		825.5	21.66	20.78	20.56
	100% RB	847.5	21.95	21.06	20.78
		836.5	22.02	21.15	20.87
		825.5	21.63	20.76	20.54
5MHz	1 RB high	846.5	22.88	22.14	21.87
		836.5	22.93	22.29	22.05
		826.5	23.08	22.43	22.18
	1 RB low	846.5	22.98	22.18	21.92
		836.5	22.91	22.20	21.99
		826.5	23.09	22.29	22.01
	50% RB mid	846.5	22.00	21.08	20.87
		836.5	22.03	21.13	20.90
		826.5	22.09	21.22	20.99
	100% RB	846.5	22.00	21.09	20.86
		836.5	22.04	21.13	20.90
		826.5	22.18	21.25	21.05
10MHz	1 RB high	844.0	22.90	22.21	22.00

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		836.5	23.02	22.40	22.14
		829.0	23.07	22.39	22.11
	1 RB low	844.0	23.00	22.29	21.99
		836.5	22.93	22.28	21.99
		829.0	23.04	22.36	22.13
	50% RB mid	844.0	22.01	21.07	20.84
		836.5	22.09	21.18	20.91
		829.0	22.09	21.25	20.95
	100% RB	844.0	21.98	21.08	20.80
		836.5	22.08	21.16	20.94
		829.0	22.20	21.31	21.06
15MHz	1 RB high	841.5	22.96	22.26	22.03
		836.5	23.02	22.43	22.14
		831.5	22.97	22.33	22.03
	1 RB low	841.5	23.04	22.42	22.14
		836.5	22.97	22.25	21.99
		831.5	22.94	22.27	21.99
	50% RB mid	841.5	21.93	21.01	20.80
		836.5	22.04	21.19	20.90
		831.5	22.05	21.17	20.94
	100% RB	841.5	21.89	21.01	20.76
		836.5	22.03	21.14	20.88
		831.5	22.02	21.13	20.83

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2312.5	22.81	22.06	22.06
		2310.0	22.91	22.16	22.16
		2307.5	22.72	21.97	21.97
	1 RB low	2312.5	22.73	21.98	22.03
		2310.0	22.83	22.08	22.13
		2307.5	22.64	21.89	21.94
	50% RB mid	2312.5	21.86	20.91	20.95
		2310.0	21.96	21.01	21.05
		2307.5	21.77	20.82	20.86
	100% RB	2312.5	21.84	20.89	20.93
		2310.0	21.94	20.99	21.03
		2307.5	21.75	20.80	20.84
10MHz	1 RB high	2310.0	22.93	22.18	22.18
	1 RB low	2310.0	22.85	22.10	22.15
	50% RB mid	2310.0	21.98	21.03	21.07
	100% RB	2310.0	21.96	21.01	21.05

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 38

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2617.5	22.81	21.89	21.47
		2595.0	22.77	21.78	21.39
		2572.5	22.66	21.78	21.39
	1 RB low	2617.5	22.77	21.90	21.48
		2595.0	22.58	21.77	21.38
		2572.5	22.65	21.78	21.39
	50% RB mid	2617.5	21.86	20.92	20.50
		2595.0	21.70	20.78	20.39
		2572.5	21.73	20.79	20.40
	100% RB	2617.5	21.82	20.93	20.51
		2595.0	21.64	20.79	20.40
		2572.5	21.70	20.82	20.43
10MHz	1 RB high	2615.0	22.80	21.99	21.60
		2595.0	22.75	21.90	21.51
		2575.0	22.68	21.83	21.41
	1 RB low	2615.0	22.79	21.96	21.57
		2595.0	22.69	21.88	21.49
		2575.0	22.74	21.87	21.45
	50% RB mid	2615.0	21.77	20.92	20.53
		2595.0	21.70	20.85	20.46
		2575.0	21.75	20.85	20.43
	100% RB	2615.0	21.80	20.88	20.49
		2595.0	21.72	20.83	20.44
		2575.0	21.74	20.84	20.42
15MHz	1 RB high	2612.5	22.89	22.09	21.67
		2595.0	22.82	22.09	21.70
		2577.5	22.86	22.06	21.67
	1 RB low	2612.5	22.71	21.99	21.57
		2595.0	22.79	21.97	21.58
		2577.5	22.76	21.94	21.55
	50% RB mid	2612.5	21.85	20.92	20.50
		2595.0	21.75	20.85	20.46
		2577.5	21.77	20.84	20.45
	100% RB	2612.5	21.84	20.97	20.55
		2595.0	21.77	20.90	20.51
		2577.5	21.90	20.97	20.58

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20MHz	1 RB high	2610.0	22.86	22.06	21.67
		2595.0	22.78	21.90	21.51
		2580.0	22.77	21.92	21.50
	1 RB low	2610.0	22.72	21.94	21.55
		2595.0	22.74	21.89	21.50
		2580.0	22.75	21.91	21.49
	50% RB mid	2610.0	21.81	20.88	20.49
		2595.0	21.75	20.87	20.48
		2580.0	21.85	20.98	20.56
	100% RB	2610.0	21.73	20.83	20.44
		2595.0	21.76	20.85	20.46
		2580.0	21.85	20.95	20.53

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	22.62	21.81	21.56
		2593.0	22.61	21.76	21.49
		2498.5	22.68	21.74	21.51
	1 RB low	2687.5	22.58	21.72	21.51
		2593.0	22.62	21.71	21.49
		2498.5	22.63	21.72	21.50
	50% RB mid	2687.5	21.71	20.77	20.54
		2593.0	21.68	20.73	20.53
		2498.5	21.74	20.77	20.50
	100% RB	2687.5	21.71	20.82	20.60
		2593.0	21.62	20.73	20.50
		2498.5	21.66	20.75	20.52
10MHz	1 RB high	2685.0	22.71	21.86	21.58
		2593.0	22.62	21.73	21.46
		2501.0	22.63	21.77	21.48
	1 RB low	2685.0	22.64	21.77	21.53
		2593.0	22.66	21.78	21.49
		2501.0	22.65	21.81	21.58
	50% RB mid	2685.0	21.73	20.89	20.62
		2593.0	21.68	20.78	20.52
		2501.0	21.67	20.77	20.52
	100% RB	2685.0	21.75	20.89	20.65
		2593.0	21.66	20.78	20.57
		2501.0	21.68	20.79	20.54
15MHz	1 RB high	2682.5	22.77	21.95	21.74
		2593.0	22.75	21.88	21.62
		2503.5	22.82	21.92	21.70
	1 RB low	2682.5	22.75	21.90	21.63
		2593.0	22.66	21.84	21.59
		2503.5	22.70	21.80	21.56
	50% RB mid	2682.5	21.71	20.76	20.50
		2593.0	21.69	20.75	20.46
		2503.5	21.71	20.74	20.51
	100% RB	2682.5	21.79	20.90	20.66
		2593.0	21.79	20.86	20.65
		2503.5	21.81	20.89	20.68

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20MHz	1 RB high	2680.0	22.71	21.91	21.62
		2593.0	22.74	21.87	21.63
		2506.0	22.76	21.90	21.67
	1 RB low	2680.0	22.71	21.89	21.67
		2593.0	22.72	21.92	21.64
		2506.0	22.73	21.85	21.60
	50% RB mid	2680.0	21.72	20.83	20.59
		2593.0	21.71	20.79	20.58
		2506.0	21.81	20.89	20.67
	100% RB	2680.0	21.81	20.96	20.70
		2593.0	21.81	20.90	20.62
		2506.0	21.84	20.93	20.71

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	22.36	21.64	20.65
		1745.0	22.39	21.74	20.75
		1710.7	22.28	21.50	20.51
	1 RB low	1779.3	22.36	21.66	20.67
		1745.0	22.40	21.74	20.76
		1710.7	22.29	21.55	20.56
	50% RB mid	1779.3	22.46	21.54	20.56
		1745.0	22.47	21.56	20.58
		1710.7	22.40	21.41	20.43
	100% RB	1779.3	21.44	20.65	19.66
		1745.0	21.47	20.65	19.67
		1710.7	21.39	20.54	19.56
3MHz	1 RB high	1778.5	22.39	21.71	20.73
		1745.0	22.45	21.79	20.80
		1711.5	22.31	21.60	20.61
	1 RB low	1778.5	22.41	21.74	20.75
		1745.0	22.46	21.72	20.73
		1711.5	22.37	21.58	20.60
	50% RB mid	1778.5	21.52	20.71	19.73
		1745.0	21.54	20.72	19.74
		1711.5	21.45	20.58	19.60
	100% RB	1778.5	21.50	20.60	19.62
		1745.0	21.55	20.66	19.67
		1711.5	21.45	20.57	19.59
5MHz	1 RB high	1777.5	22.38	21.74	20.76
		1745.0	22.43	21.76	20.77
		1712.5	22.33	21.57	20.58
	1 RB low	1777.5	22.41	21.69	20.70
		1745.0	22.47	21.78	20.80
		1712.5	22.35	21.64	20.65
	50% RB mid	1777.5	21.53	20.64	19.66
		1745.0	21.57	20.70	19.71
		1712.5	21.48	20.56	19.58
	100% RB	1777.5	21.49	20.60	19.61
		1745.0	21.54	20.64	19.65
		1712.5	21.44	20.50	19.52
10MHz	1 RB high	1775.0	22.41	21.65	20.67

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		1745.0	22.45	21.76	20.77
		1715.0	22.31	21.63	20.65
	1 RB low	1775.0	22.44	21.79	20.81
		1745.0	22.49	21.83	20.85
		1715.0	22.37	21.61	20.62
	50% RB mid	1775.0	21.52	20.61	19.62
		1745.0	21.54	20.67	19.68
		1715.0	21.47	20.55	19.56
	100% RB	1775.0	21.48	20.59	19.61
		1745.0	21.51	20.63	19.64
		1715.0	21.45	20.53	19.55
15MHz	1 RB high	1772.5	22.37	21.67	20.72
		1745.0	22.41	21.80	20.84
		1717.5	22.39	21.70	20.75
	1 RB low	1772.5	22.52	21.91	20.95
		1745.0	22.49	21.82	20.86
		1717.5	22.33	21.64	20.68
	50% RB mid	1772.5	21.48	20.61	19.65
		1745.0	21.56	20.67	19.72
		1717.5	21.53	20.62	19.66
	100% RB	1772.5	21.57	20.69	19.73
		1745.0	21.51	20.66	19.70
		1717.5	21.51	20.61	19.65
20MHz	1 RB high	1770.0	22.36	21.71	20.75
		1745.0	22.42	21.70	20.75
		1720.0	22.37	21.75	20.80
	1 RB low	1770.0	22.53	21.88	20.93
		1745.0	22.49	21.75	20.80
		1720.0	22.34	21.63	20.67
	50% RB mid	1770.0	21.56	20.69	19.73
		1745.0	21.54	20.67	19.71
		1720.0	21.54	20.65	19.69
	100% RB	1770.0	21.54	20.66	19.70
		1745.0	21.52	20.64	19.68
		1720.0	21.49	20.60	19.64

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band CA-5B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/10MHz	836.8	844.0	QPSK	1	24	1	0	22.91
				25	0	100	0	20.91
			16QAM	1	24	1	0	21.85
				25	0	100	0	20.01
			64QAM	1	24	1	0	21.08
				25	0	100	0	19.11
	831.8	839.0	QPSK	1	24	1	0	22.70
				25	0	100	0	20.88
			16QAM	1	24	1	0	22.07
				25	0	100	0	19.98
			64QAM	1	24	1	0	21.16
				25	0	100	0	19.12
	826.8	834.0	QPSK	1	24	1	0	22.82
				25	0	100	0	20.95
			16QAM	1	24	1	0	21.89
				25	0	100	0	20.02
			64QAM	1	24	1	0	20.98
				25	0	100	0	19.18
10MHz/5MHz	839.0	846.2	QPSK	1	99	1	0	22.91
				100	0	25	0	20.95
			16QAM	1	99	1	0	22.01
				100	0	25	0	19.96
			64QAM	1	99	1	0	21.06
				100	0	25	0	19.06
	834.0	841.2	QPSK	1	99	1	0	22.94
				100	0	25	0	20.93
			16QAM	1	99	1	0	22.09
				100	0	25	0	20.01
			64QAM	1	99	1	0	21.21
				100	0	25	0	19.15
	829.0	836.2	QPSK	1	99	1	0	22.92
				100	0	25	0	20.88
			16QAM	1	99	1	0	21.87
				100	0	25	0	19.99
			64QAM	1	99	1	0	20.94
				100	0	25	0	19.11
10MHz/10MHz	834.1	844.0	QPSK	1	49	1	0	22.77
				50	0	75	0	20.99

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			16QAM	1	49	1	0	21.98
				50	0	75	0	20.00
			64QAM	1	49	1	0	21.09
				50	0	75	0	19.03
	831.6	841.5	QPSK	1	49	1	0	22.84
				50	0	75	0	20.94
			16QAM	1	49	1	0	21.96
				50	0	75	0	20.01
			64QAM	1	49	1	0	21.13
				50	0	75	0	19.07
	829.0	838.9	QPSK	1	49	1	0	22.85
				50	0	75	0	20.84
			16QAM	1	49	1	0	21.81
				50	0	75	0	19.98
			64QAM	1	49	1	0	20.91
				50	0	75	0	19.01

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

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LTE band CA-41C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2668.3	2680.0	QPSK	1	24	1	0	21.25
				25	0	100	0	20.17
			16QAM	1	24	1	0	20.67
				25	0	100	0	19.81
			64QAM	1	24	1	0	20.17
				25	0	100	0	19.36
	2583.8	2595.5	QPSK	1	24	1	0	20.98
				25	0	100	0	20.30
			16QAM	1	24	1	0	20.18
				25	0	100	0	19.45
			64QAM	1	24	1	0	19.94
				25	0	100	0	19.25
	2499.3	2511.0	QPSK	1	24	1	0	20.96
				25	0	100	0	20.35
			16QAM	1	24	1	0	20.12
				25	0	100	0	19.37
			64QAM	1	24	1	0	20.01
				25	0	100	0	19.24
20MHz/5MHz	2675.0	2686.7	QPSK	1	99	1	0	20.95
				100	0	25	0	20.24
			16QAM	1	99	1	0	19.98
				100	0	25	0	19.22
			64QAM	1	99	1	0	19.76
				100	0	25	0	19.18
	2590.5	2602.2	QPSK	1	99	1	0	21.20
				100	0	25	0	20.45
			16QAM	1	99	1	0	20.43
				100	0	25	0	19.80
			64QAM	1	99	1	0	19.88
				100	0	25	0	19.16
	2506.0	2517.7	QPSK	1	99	1	0	21.12
				100	0	25	0	20.27
			16QAM	1	99	1	0	19.95
				100	0	25	0	19.22
			64QAM	1	99	1	0	19.64
				100	0	25	0	19.15
10MHz/15	2670.5	2682.5	QPSK	1	49	1	0	21.15

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MHz				50	0	75	0	20.17
			16QAM	1	49	1	0	20.36
				50	0	75	0	19.54
			64QAM	1	49	1	0	20.06
				50	0	75	0	19.22
	2585.9	2597.9	QPSK	1	49	1	0	20.98
				50	0	75	0	20.32
			16QAM	1	49	1	0	20.09
				50	0	75	0	19.22
			64QAM	1	49	1	0	19.59
				50	0	75	0	19.01
	2501.3	2513.3	QPSK	1	49	1	0	20.98
				50	0	75	0	20.22
			16QAM	1	49	1	0	19.93
				50	0	75	0	19.11
			64QAM	1	49	1	0	19.49
				50	0	75	0	18.96
15MHz/10 MHz	2672.7	2684.7	QPSK	1	74	1	0	21.06
				75	0	50	0	20.24
			16QAM	1	74	1	0	19.96
				75	0	50	0	19.11
			64QAM	1	74	1	0	19.56
				75	0	50	0	19.03
	2588.1	2600.1	QPSK	1	74	1	0	21.17
				75	0	50	0	20.40
			16QAM	1	74	1	0	20.29
				75	0	50	0	19.53
			64QAM	1	74	1	0	19.83
				75	0	50	0	19.12
	2503.5	2515.5	QPSK	1	74	1	0	21.03
				75	0	50	0	20.32
			16QAM	1	74	1	0	20.36
				75	0	50	0	19.56
			64QAM	1	74	1	0	20.08
				75	0	50	0	19.27
10MHz/20 MHz	2665.6	2680.0	QPSK	1	49	1	0	21.18
				50	0	100	0	20.28
			16QAM	1	49	1	0	20.34
				50	0	100	0	19.51
			64QAM	1	49	1	0	20.03
				50	0	100	0	19.16

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	2583.6	2598.0	QPSK	1	49	1	0	20.94
				50	0	100	0	19.92
			16QAM	1	49	1	0	20.03
				50	0	100	0	19.13
			64QAM	1	49	1	0	19.64
				50	0	100	0	19.16
	2501.5	2515.9	QPSK	1	49	1	0	20.97
				50	0	100	0	19.93
			16QAM	1	49	1	0	20.20
				50	0	100	0	19.45
			64QAM	1	49	1	0	19.98
				50	0	100	0	19.11
20MHz/10 MHz	2670.1	2684.5	QPSK	1	99	1	0	21.04
				100	0	50	0	20.22
			16QAM	1	99	1	0	20.25
				100	0	50	0	19.25
			64QAM	1	99	1	0	19.64
				100	0	50	0	18.89
	2588.1	2602.5	QPSK	1	99	1	0	21.17
				100	0	50	0	20.38
			16QAM	1	99	1	0	20.21
				100	0	50	0	19.64
			64QAM	1	99	1	0	19.96
				100	0	50	0	19.11
	2506.0	2520.4	QPSK	1	99	1	0	21.02
				100	0	50	0	20.20
			16QAM	1	99	1	0	20.16
				100	0	50	0	19.27
			64QAM	1	99	1	0	19.68
				100	0	50	0	18.99
15MHz/15 MHz	2667.5	2682.5	QPSK	1	74	1	0	21.19
				75	0	75	0	20.36
			16QAM	1	74	1	0	20.26
				75	0	75	0	19.37
			64QAM	1	74	1	0	19.96
				75	0	75	0	19.06
	2585.5	2600.5	QPSK	1	74	1	0	21.07
				75	0	75	0	20.20
			16QAM	1	74	1	0	20.24
				75	0	75	0	19.27
			64QAM	1	74	1	0	19.96

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				75	0	75	0	19.12
	2503.5	2518.5	QPSK	1	74	1	0	21.07
				75	0	75	0	20.16
			16QAM	1	74	1	0	20.31
				75	0	75	0	19.43
			64QAM	1	74	1	0	20.11
				75	0	75	0	19.26
15MHz/20 MHz	2662.9	2680.0	QPSK	1	74	1	0	21.21
				75	0	100	0	20.27
			16QAM	1	74	1	0	20.47
				75	0	100	0	19.48
			64QAM	1	74	1	0	20.08
				75	0	100	0	19.16
	2583.3	2600.4	QPSK	1	74	1	0	21.06
				75	0	100	0	20.16
			16QAM	1	74	1	0	20.28
				75	0	100	0	19.39
			64QAM	1	74	1	0	19.98
				75	0	100	0	19.08
	2503.8	2520.9	QPSK	1	74	1	0	20.99
				75	0	100	0	20.16
			16QAM	1	74	1	0	20.11
				75	0	100	0	19.41
			64QAM	1	74	1	0	19.89
				75	0	100	0	19.02
20MHz/15 MHz	2665.1	2682.2	QPSK	1	99	1	0	21.06
				100	0	75	0	20.18
			16QAM	1	99	1	0	20.28
				100	0	75	0	19.31
			64QAM	1	99	1	0	19.88
				100	0	75	0	19.03
	2585.6	2602.7	QPSK	1	99	1	0	21.11
				100	0	75	0	20.32
			16QAM	1	99	1	0	20.18
				100	0	75	0	19.20
			64QAM	1	99	1	0	19.93
				100	0	75	0	19.01
	2506.0	2523.1	QPSK	1	99	1	0	20.99
				100	0	75	0	20.14
			16QAM	1	99	1	0	20.09
				100	0	75	0	19.18

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			64QAM	1	99	1	0	19.97
				100	0	75	0	19.14
20MHz/20 MHz	2660.2	2680.0	QPSK	1	99	1	0	21.11
				100	0	100	0	20.08
			16QAM	1	99	1	0	20.23
				100	0	100	0	19.24
			64QAM	1	99	1	0	19.95
				100	0	100	0	19.03
	2583.1	2602.9	QPSK	1	99	1	0	20.94
				100	0	100	0	20.09
			16QAM	1	99	1	0	19.99
				100	0	100	0	19.14
			64QAM	1	99	1	0	19.64
				100	0	100	0	18.98
	2506.0	2525.8	QPSK	1	99	1	0	20.98
				100	0	100	0	20.10
			16QAM	1	99	1	0	20.00
				100	0	100	0	19.19
			64QAM	1	99	1	0	19.66
				100	0	100	0	18.88

Note: Expanded measurement uncertainty is U = 0.49 dB, k = 1.96

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A.1.3 Radiated

A.1.3.1 Description

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

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 27.50(d) specifies “Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”.

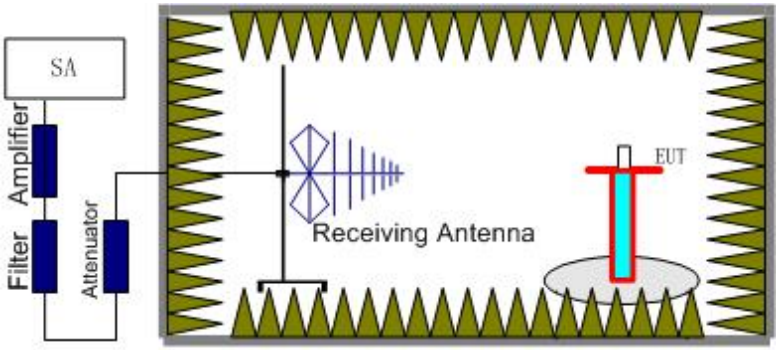
Rule Part 27.50(h)(2) specifies “Mobile stations are limited to 2.0 watts EIRP.”.

Rule Part 27.50(c) specifies “Portable stations (hand-held de-vices) are limited to 3 watts ERP.”.

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.” Rule Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).”

A.1.3.2 Method of Measurement

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. 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 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 (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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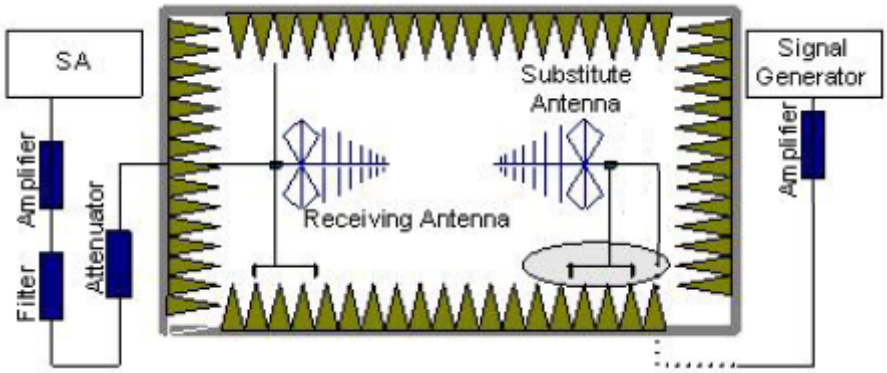

In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern 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 reaches 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(dBi) (G_a) and the amplifier Gain (P_{Ag}) should be recorded after test.
   The measurement results are obtained as described below:
   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 (unit dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dB.

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A.1.3.3 Measurement result

LTE Band 2- EIRP Part 24. 232(b)

Limits: ≤33dBm (2W)

LTE Band 2_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-19.31	-29.30	9.80	19.79	33.00	H
1880.00	-18.66	-29.40	9.80	20.54	33.00	H
1909.30	-18.46	-29.30	9.80	20.64	33.00	H

LTE Band 2_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-19.25	-29.30	9.80	19.85	33.00	H
1880.00	-18.40	-29.40	9.80	20.80	33.00	H
1908.50	-18.65	-29.30	9.80	20.45	33.00	H

LTE Band 2_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-19.30	-29.30	9.80	19.80	33.00	H
1880.00	-18.19	-29.40	9.80	21.01	33.00	H
1907.50	-18.65	-29.30	9.80	20.45	33.00	H

LTE Band 2_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-18.56	-29.30	9.80	20.54	33.00	H
1880.00	**-17.67**	**-29.40**	**9.80**	**21.53**	**33.00**	**H**
1905.00	-18.48	-29.30	9.80	20.62	33.00	H

LTE Band 2_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-18.79	-29.30	9.80	20.31	33.00	H
1880.00	-18.07	-29.40	9.80	21.13	33.00	H
1902.50	-18.76	-29.30	9.80	20.34	33.00	H

LTE Band 2_20 MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-18.77	-29.30	9.80	20.33	33.00	H
1880.00	-18.05	-29.40	9.80	21.15	33.00	H
1900.00	-18.43	-29.30	9.80	20.67	33.00	H

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LTE Band 2_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-19.07	-29.30	9.80	20.03	33.00	H
1880.00	-17.96	-29.40	9.80	21.24	33.00	H
1909.30	-19.43	-29.30	9.80	19.67	33.00	H

LTE Band 2_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-18.77	-29.30	9.80	20.33	33.00	H
1880.00	-17.68	-29.40	9.80	21.52	33.00	H
1908.50	-19.20	-29.30	9.80	19.90	33.00	H

LTE Band 2_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-18.85	-29.30	9.80	20.25	33.00	H
1880.00	-17.76	-29.40	9.80	21.44	33.00	H
1907.50	-19.16	-29.30	9.80	19.94	33.00	H

LTE Band 2_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-18.53	-29.30	9.80	20.57	33.00	H
1880.00	-17.78	-29.40	9.80	21.42	33.00	H
1905.00	-18.68	-29.30	9.80	20.42	33.00	H

LTE Band 2_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-18.89	-29.30	9.80	20.21	33.00	H
1880.00	-17.93	-29.40	9.80	21.27	33.00	H
1902.50	-18.81	-29.30	9.80	20.29	33.00	H

LTE Band 2_20 MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-18.55	-29.30	9.80	20.55	33.00	H
1880.00	-18.24	-29.40	9.80	20.96	33.00	H
1900.00	-18.52	-29.30	9.80	20.58	33.00	H

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LTE Band 2_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-19.89	-29.30	9.80	19.21	33.00	H
1880.00	-18.64	-29.40	9.80	20.56	33.00	H
1909.30	-20.23	-29.30	9.80	18.87	33.00	H

LTE Band 2_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-19.38	-29.30	9.80	19.72	33.00	H
1880.00	-18.74	-29.40	9.80	20.46	33.00	H
1908.50	-20.04	-29.30	9.80	19.06	33.00	H

LTE Band 2_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-19.69	-29.30	9.80	19.41	33.00	H
1880.00	-18.48	-29.40	9.80	20.72	33.00	H
1907.50	-19.58	-29.30	9.80	19.52	33.00	H

LTE Band 2_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-19.53	-29.30	9.80	19.57	33.00	H
1880.00	-18.54	-29.40	9.80	20.66	33.00	H
1905.00	-19.59	-29.30	9.80	19.51	33.00	H

LTE Band 2_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-19.54	-29.30	9.80	19.56	33.00	H
1880.00	-18.79	-29.40	9.80	20.41	33.00	H
1902.50	-19.42	-29.30	9.80	19.68	33.00	H

LTE Band 2_20 MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-19.66	-29.30	9.80	19.44	33.00	H
1880.00	-19.20	-29.40	9.80	20.00	33.00	H
1900.00	-19.07	-29.30	9.80	20.03	33.00	H

Peak EIRP (dBm)=P_{Mea}(-17.67dBm)-(P_{cl}+P_{Ag})(-29.40dB)+G_a(9.80dB) =21.53dBm

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LTE Band 4- EIRP Part 27.50(d)

Limits: ≤30dBm (1W)

LTE Band 4_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.83	-29.60	8.10	18.87	30.00	H
1732.50	-17.30	-29.60	8.10	20.40	30.00	H
1754.30	**-15.26**	**-29.50**	**8.10**	**22.34**	**30.00**	**H**

LTE Band 4_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.63	-29.60	8.10	19.07	30.00	H
1732.50	-17.52	-29.60	8.10	20.18	30.00	H
1753.50	-15.50	-29.50	8.10	22.10	30.00	H

LTE Band 4_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.53	-29.60	8.10	19.17	30.00	H
1732.50	-17.82	-29.60	8.10	19.88	30.00	H
1752.50	-15.92	-29.50	8.10	21.68	30.00	H

LTE Band 4_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.39	-29.60	8.10	19.31	30.00	H
1732.50	-17.53	-29.60	8.10	20.17	30.00	H
1750.00	-16.35	-29.50	8.10	21.25	30.00	H

LTE Band 4_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.53	-29.60	8.10	19.17	30.00	H
1732.50	-18.09	-29.60	8.10	19.61	30.00	H
1747.50	-16.78	-29.50	8.10	20.82	30.00	H

LTE Band 4_20MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.50	-29.60	8.10	19.20	30.00	H
1732.50	-18.00	-29.60	8.10	19.70	30.00	H
1745.00	-16.87	-29.50	8.10	20.73	30.00	H

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LTE Band 4_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.79	-29.60	8.10	18.91	30.00	H
1732.50	-17.41	-29.60	8.10	20.29	30.00	H
1754.30	-15.71	-29.50	8.10	21.89	30.00	H

LTE Band 4_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-19.02	-29.60	8.10	18.68	30.00	H
1732.50	-17.41	-29.60	8.10	20.29	30.00	H
1753.50	-15.74	-29.50	8.10	21.86	30.00	H

LTE Band 4_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.83	-29.60	8.10	18.87	30.00	H
1732.50	-17.51	-29.60	8.10	20.19	30.00	H
1752.50	-16.08	-29.50	8.10	21.52	30.00	H

LTE Band 4_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.88	-29.60	8.10	18.82	30.00	H
1732.50	-17.79	-29.60	8.10	19.91	30.00	H
1750.00	-16.61	-29.50	8.10	20.99	30.00	H

LTE Band 4_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.69	-29.60	8.10	19.01	30.00	H
1732.50	-18.21	-29.60	8.10	19.49	30.00	H
1747.50	-16.61	-29.50	8.10	20.99	30.00	H

LTE Band 4_20MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.69	-29.60	8.10	19.01	30.00	H
1732.50	-18.34	-29.60	8.10	19.36	30.00	H
1745.00	-17.05	-29.50	8.10	20.55	30.00	H

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LTE Band 4_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-19.44	-29.60	8.10	18.26	30.00	H
1732.50	-17.78	-29.60	8.10	19.92	30.00	H
1754.30	-15.91	-29.50	8.10	21.69	30.00	H

LTE Band 4_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.60	-29.60	8.10	19.10	30.00	H
1732.50	-17.92	-29.60	8.10	19.78	30.00	H
1753.50	-16.16	-29.50	8.10	21.44	30.00	H

LTE Band 4_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-19.00	-29.60	8.10	18.70	30.00	H
1732.50	-17.87	-29.60	8.10	19.83	30.00	H
1752.50	-16.64	-29.50	8.10	20.96	30.00	H

LTE Band 4_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.65	-29.60	8.10	19.05	30.00	H
1732.50	-17.75	-29.60	8.10	19.95	30.00	H
1750.00	-17.12	-29.50	8.10	20.48	30.00	H

LTE Band 4_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.76	-29.60	8.10	18.94	30.00	H
1732.50	-17.84	-29.60	8.10	19.86	30.00	H
1747.50	-16.99	-29.50	8.10	20.61	30.00	H

LTE Band 4_20MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-19.00	-29.60	8.10	18.70	30.00	H
1732.50	-18.02	-29.60	8.10	19.68	30.00	H
1745.00	-17.14	-29.50	8.10	20.46	30.00	H

Peak EIRP (dBm)=P_{Mea}(-15.26dBm)-(P_{cl}+P_{Ag})(-29.50dB)+G_a(8.10dB) =22.34dBm

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LTE Band 5- ERP Part 22.913(a)

Limits: ≤38.45dBm (7W)

LTE Band 5_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-13.36	-33.60	-0.30	2.15	17.79	38.45	V
836.50	-12.39	-33.50	-0.30	2.15	18.66	38.45	V
848.30	-12.73	-33.50	-0.30	2.15	18.32	38.45	V

LTE Band 5_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-13.22	-33.60	-0.30	2.15	17.93	38.45	V
836.50	-12.30	-33.50	-0.30	2.15	18.75	38.45	V
847.50	-12.36	-33.50	-0.30	2.15	18.69	38.45	V

LTE Band 5_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-13.12	-33.60	-0.30	2.15	18.03	38.45	V
836.50	-12.25	-33.50	-0.30	2.15	18.80	38.45	V
846.50	-12.59	-33.50	-0.30	2.15	18.46	38.45	V

LTE Band 5_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-13.27	-33.60	-0.30	2.15	17.88	38.45	V
836.50	**-12.21**	**-33.50**	**-0.30**	**2.15**	**18.84**	**38.45**	**V**
844.00	-12.39	-33.50	-0.30	2.15	18.66	38.45	V

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LTE Band 5_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-13.54	-33.60	-0.30	2.15	17.61	38.45	V
836.50	-12.26	-33.50	-0.30	2.15	18.79	38.45	V
848.30	-12.81	-33.50	-0.30	2.15	18.24	38.45	V

LTE Band 5_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-13.34	-33.60	-0.30	2.15	17.81	38.45	V
836.50	-12.29	-33.50	-0.30	2.15	18.76	38.45	V
847.50	-12.40	-33.50	-0.30	2.15	18.65	38.45	V

LTE Band 5_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-13.32	-33.60	-0.30	2.15	17.83	38.45	V
836.50	-12.25	-33.50	-0.30	2.15	18.80	38.45	V
846.50	-12.88	-33.50	-0.30	2.15	18.17	38.45	V

LTE Band 5_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-13.52	-33.60	-0.30	2.15	17.63	38.45	V
836.50	-12.24	-33.50	-0.30	2.15	18.81	38.45	V
844.00	-12.30	-33.50	-0.30	2.15	18.75	38.45	V

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LTE Band 5_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-14.62	-33.60	-0.30	2.15	16.53	38.45	V
836.50	-13.39	-33.50	-0.30	2.15	17.66	38.45	V
848.30	-13.79	-33.50	-0.30	2.15	17.26	38.45	V

LTE Band 5_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-14.52	-33.60	-0.30	2.15	16.63	38.45	V
836.50	-13.48	-33.50	-0.30	2.15	17.57	38.45	V
847.50	-13.58	-33.50	-0.30	2.15	17.47	38.45	V

LTE Band 5_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-14.39	-33.60	-0.30	2.15	16.76	38.45	V
836.50	-13.24	-33.50	-0.30	2.15	17.81	38.45	V
846.50	-13.69	-33.50	-0.30	2.15	17.36	38.45	V

LTE Band 5_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-14.50	-33.60	-0.30	2.15	16.65	38.45	V
836.50	-13.45	-33.50	-0.30	2.15	17.60	38.45	V
844.00	-13.42	-33.50	-0.30	2.15	17.63	38.45	V

Peak ERP (dBm)=P_{Mea}(-12.21dBm)-(P_{cl}+P_{Ag})(-33.50dB)+G_a(-0.30dB) -2.15dB =18.84dBm

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LTE Band 7- EIRP Part 27.50(h)(2)

Limits: ≤33 dBm (2W)

LTE Band 7_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-18.98	-28.70	10.70	20.42	33.00	V
2535.00	-18.28	-28.60	10.70	21.02	33.00	V
2567.50	-19.52	-28.60	10.70	19.78	33.00	V

LTE Band 7_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-18.98	-28.70	10.70	20.42	33.00	V
2535.00	-18.28	-28.60	10.70	21.02	33.00	V
2565.00	-19.52	-28.60	10.70	19.78	33.00	V

LTE Band 7_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-18.64	-28.70	10.70	20.76	33.00	V
2535.00	-17.99	-28.60	10.70	21.31	33.00	V
2562.50	-19.45	-28.60	10.70	19.85	33.00	V

LTE Band 7_20MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-18.78	-28.70	10.70	20.62	33.00	V
2535.00	-17.87	-28.60	10.70	21.43	33.00	V
2560.00	-19.19	-28.60	10.70	20.11	33.00	V

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LTE Band 7_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-18.88	-28.70	10.70	20.52	33.00	V
2535.00	-17.88	-28.60	10.70	21.42	33.00	V
2567.50	-19.29	-28.60	10.70	20.01	33.00	V

LTE Band 7_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-18.39	-28.70	10.70	21.01	33.00	V
2535.00	**-17.26**	**-28.60**	**10.70**	**22.04**	**33.00**	**V**
2565.00	-19.53	-28.60	10.70	19.77	33.00	V

LTE Band 7_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-18.32	-28.70	10.70	21.08	33.00	V
2535.00	-17.67	-28.60	10.70	21.63	33.00	V
2562.50	-18.70	-28.60	10.70	20.60	33.00	V

LTE Band 7_20MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-18.28	-28.70	10.70	21.12	33.00	V
2535.00	-17.40	-28.60	10.70	21.90	33.00	V
2560.00	-19.00	-28.60	10.70	20.30	33.00	V

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LTE Band 7_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-19.62	-28.70	10.70	19.78	33.00	V
2535.00	-18.68	-28.60	10.70	20.62	33.00	V
2567.50	-20.43	-28.60	10.70	18.87	33.00	V

LTE Band 7_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-19.50	-28.70	10.70	19.90	33.00	V
2535.00	-18.92	-28.60	10.70	20.38	33.00	V
2565.00	-20.82	-28.60	10.70	18.48	33.00	V

LTE Band 7_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-19.42	-28.70	10.70	19.98	33.00	V
2535.00	-18.53	-28.60	10.70	20.77	33.00	V
2562.50	-20.23	-28.60	10.70	19.07	33.00	V

LTE Band 7_20MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	G_a Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-19.62	-28.70	10.70	19.78	33.00	V
2535.00	-18.62	-28.60	10.70	20.68	33.00	V
2560.00	-19.75	-28.60	10.70	19.55	33.00	V

Peak EIRP (dBm)=P_{Mea}(-17.26dBm)-(P_{cl}+P_{Ag})(-28.60dB)+G_a(10.70dB) =22.04dBm

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LTE Band 12 - ERP Part 27.50(c)(10)

Limits: ≤34.77dBm (3W)

LTE Band 12_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-12.36	-34.80	-0.80	2.15	19.49	34.77	V
707.50	-11.09	-34.70	-0.80	2.15	20.66	34.77	V
715.30	-10.59	-34.70	-0.80	2.15	21.16	34.77	V

LTE Band 12_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-12.41	-34.80	-0.80	2.15	19.44	34.77	V
707.50	-11.41	-34.70	-0.80	2.15	20.34	34.77	V
714.50	-10.67	-34.70	-0.80	2.15	21.08	34.77	V

LTE Band 12_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-12.25	-34.80	-0.80	2.15	19.60	34.77	V
707.50	-11.35	-34.70	-0.80	2.15	20.40	34.77	V
713.50	-10.78	-34.70	-0.80	2.15	20.97	34.77	V

LTE Band 12_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-12.33	-34.80	-0.80	2.15	19.52	34.77	V
707.50	-11.82	-34.70	-0.80	2.15	19.93	34.77	V
711.00	-11.12	-34.70	-0.80	2.15	20.63	34.77	V

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LTE Band 12_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-12.28	-34.80	-0.80	2.15	19.57	34.77	V
707.50	-10.95	-34.70	-0.80	2.15	20.80	34.77	V
715.30	**-10.18**	**-34.70**	**-0.80**	**2.15**	**21.57**	**34.77**	**V**

LTE Band 12_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-12.17	-34.80	-0.80	2.15	19.68	34.77	V
707.50	-11.06	-34.70	-0.80	2.15	20.69	34.77	V
714.50	-10.50	-34.70	-0.80	2.15	21.25	34.77	V

LTE Band 12_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-12.30	-34.80	-0.80	2.15	19.55	34.77	V
707.50	-10.96	-34.70	-0.80	2.15	20.79	34.77	V
713.50	-10.48	-34.70	-0.80	2.15	21.27	34.77	V

LTE Band 12_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-12.12	-34.80	-0.80	2.15	19.73	34.77	V
707.50	-11.45	-34.70	-0.80	2.15	20.30	34.77	V
711.00	-10.78	-34.70	-0.80	2.15	20.97	34.77	V

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LTE Band 12_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-13.41	-34.80	-0.80	2.15	18.44	34.77	V
707.50	-11.92	-34.70	-0.80	2.15	19.83	34.77	V
715.30	-11.25	-34.70	-0.80	2.15	20.50	34.77	V

LTE Band 12_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-13.09	-34.80	-0.80	2.15	18.76	34.77	V
707.50	-12.01	-34.70	-0.80	2.15	19.74	34.77	V
714.50	-11.52	-34.70	-0.80	2.15	20.23	34.77	V

LTE Band 12_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-13.01	-34.80	-0.80	2.15	18.84	34.77	V
707.50	-11.95	-34.70	-0.80	2.15	19.80	34.77	V
713.50	-11.61	-34.70	-0.80	2.15	20.14	34.77	V

LTE Band 12_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-13.18	-34.80	-0.80	2.15	18.67	34.77	V
707.50	-12.29	-34.70	-0.80	2.15	19.46	34.77	V
711.00	-11.55	-34.70	-0.80	2.15	20.20	34.77	V

Peak ERP (dBm)=P_{Mea}(-10.18Bm)-(P_{cl}+P_{Ag})(-34.70dB)+G_a(-0.80dB) -2.15dB =21.57dBm

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LTE Band 13- ERP Part 27.50(b)(10)

Limits: ≤34.77dBm (3W)

LTE Band 13_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-11.10	-34.00	-0.30	2.15	20.45	34.77	V
782.00	-10.81	-34.00	-0.30	2.15	20.74	34.77	V
784.50	-11.11	-34.00	-0.30	2.15	20.44	34.77	V

LTE Band 13_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-11.52	-34.00	-0.30	2.15	20.03	34.77	V

LTE Band 13_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-11.07	-34.00	-0.30	2.15	20.48	34.77	V
782.00	**-10.63**	**-34.00**	**-0.30**	**2.15**	**20.92**	**34.77**	**V**
784.50	-11.46	-34.00	-0.30	2.15	20.09	34.77	V

LTE Band 13_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-11.61	-34.00	-0.30	2.15	19.94	34.77	V

LTE Band 13_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-12.04	-34.00	-0.30	2.15	19.51	34.77	V
782.00	-11.64	-34.00	-0.30	2.15	19.91	34.77	V
784.50	-12.28	-34.00	-0.30	2.15	19.27	34.77	V

LTE Band 13_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-12.45	-34.00	-0.30	2.15	19.10	34.77	V

Peak ERP (dBm)=P_{Mea}(-10.63dBm)-(P_{cl}+P_{Ag})(-34.00dB)+G_a(-0.30dB) -2.15dB =20.92dBm

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LTE Band 14- ERP 90.542(a)(7)

Limits: ≤34.77dBm (3W)

LTE Band 14_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
790.50	-12.07	-34.00	-0.30	2.15	19.48	34.77	V
793.00	-12.43	-33.90	-0.30	2.15	19.02	34.77	V
795.50	-13.12	-33.90	-0.30	2.15	18.33	34.77	V

LTE Band 14_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-12.01	-33.90	-0.30	2.15	19.44	34.77	V

LTE Band 14_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
790.50	-11.84	-34.00	-0.30	2.15	19.71	34.77	V
793.00	-12.83	-33.90	-0.30	2.15	18.62	34.77	V
795.50	-13.12	-33.90	-0.30	2.15	18.33	34.77	V

LTE Band 14_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
793.00	**-11.70**	**-33.90**	**-0.30**	**2.15**	**19.75**	**34.77**	**V**

LTE Band 14_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
790.50	-12.89	-34.00	-0.30	2.15	18.66	34.77	V
793.00	-13.34	-33.90	-0.30	2.15	18.11	34.77	V
795.50	-14.15	-33.90	-0.30	2.15	17.30	34.77	V

LTE Band 14_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
793.00	-12.83	-33.90	-0.30	2.15	18.62	34.77	V

Peak ERP (dBm)=P_{Mea}(-12.01dBm)-(P_{cl}+P_{Ag})(-33.90dB)+G_a(-0.30)-2.15dB =19.75dBm

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LTE Band 17 - ERP Part 27.50(c)(10)

Limits: ≤34.77dBm (3W)

LTE Band 17_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-32.13	-34.70	-0.80	2.15	20.69	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	21.36	34.77	V
713.50	**-32.21**	**-34.70**	**-0.80**	**2.15**	**21.66**	**34.77**	**V**

LTE Band 17_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-32.13	-34.70	-0.80	2.15	20.71	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	21.01	34.77	V
711.00	-32.11	-34.70	-0.80	2.15	21.11	34.77	V

LTE Band 17_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-32.13	-34.70	-0.80	2.15	20.84	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	21.64	34.77	V
713.50	-32.21	-34.70	-0.80	2.15	21.52	34.77	V

LTE Band 17_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-32.13	-34.70	-0.80	2.15	21.43	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	21.50	34.77	V
711.00	-32.11	-34.70	-0.80	2.15	21.59	34.77	V

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LTE Band 17_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-32.13	-34.70	-0.80	2.15	19.77	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	20.48	34.77	V
713.50	-32.21	-34.70	-0.80	2.15	20.89	34.77	V

LTE Band 17_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-32.13	-34.70	-0.80	2.15	19.88	34.77	V
710.00	-32.10	-34.70	-0.80	2.15	20.23	34.77	V
711.00	-32.11	-34.70	-0.80	2.15	20.29	34.77	V

Peak ERP (dBm)=P_{Mea}(-32.21dBm)-(P_{cl}+P_{Ag})(-34.70dB)+G_a(-0.80dB) -2.15dB =21.66dBm

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LTE Band 25- EIRP Part 24. 232(c)

Limits: ≤33dBm (2W)

LTE Band 25_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.14	-29.30	9.80	21.96	33.00	H
1882.50	-16.65	-29.40	9.80	22.55	33.00	H
1914.30	-17.75	-29.30	9.80	21.35	33.00	H

LTE Band 25_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.00	-29.30	9.80	22.10	33.00	H
1882.50	-16.34	-29.40	9.80	22.86	33.00	H
1913.50	-17.52	-29.30	9.80	21.58	33.00	H

LTE Band 25_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.09	-29.30	9.80	22.01	33.00	H
1882.50	-16.20	-29.40	9.80	23.00	33.00	H
1912.50	-17.48	-29.30	9.80	21.62	33.00	H

LTE Band 25_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.11	-29.30	9.80	21.99	33.00	H
1882.00	-16.00	-29.40	9.80	23.20	33.00	H
1910.00	-17.44	-29.30	9.80	21.66	33.00	H

LTE Band 25_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.20	-29.30	9.80	21.90	33.00	H
1882.50	-16.28	-29.40	9.80	22.92	33.00	H
1907.50	-17.29	-29.30	9.80	21.81	33.00	H

LTE Band 25_20 MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.12	-29.30	9.80	21.98	33.00	H
1882.50	-16.15	-29.40	9.80	23.05	33.00	H
1905.00	-17.09	-29.30	9.80	22.01	33.00	H

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LTE Band 25_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.27	-29.30	9.80	21.83	33.00	H
1882.50	-16.20	-29.40	9.80	23.00	33.00	H
1914.30	-18.11	-29.30	9.80	20.99	33.00	H

LTE Band 25_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.22	-29.30	9.80	21.88	33.00	H
1882.50	-16.30	-29.40	9.80	22.90	33.00	H
1913.50	-17.92	-29.30	9.80	21.18	33.00	H

LTE Band 25_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.28	-29.30	9.80	21.82	33.00	H
1882.50	-16.25	-29.40	9.80	22.95	33.00	H
1912.50	-17.90	-29.30	9.80	21.20	33.00	H

LTE Band 25_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-16.96	-29.30	9.80	22.14	33.00	H
1882.00	**-15.90**	**-29.40**	**9.80**	**23.30**	**33.00**	**H**
1910.00	-17.66	-29.30	9.80	21.44	33.00	H

LTE Band 25_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.02	-29.30	9.80	22.08	33.00	H
1882.50	-16.18	-29.40	9.80	23.02	33.00	H
1907.50	-17.17	-29.30	9.80	21.93	33.00	H

LTE Band 25_20 MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.07	-29.30	9.80	22.03	33.00	H
1882.50	-16.63	-29.40	9.80	22.57	33.00	H
1905.00	-17.13	-29.30	9.80	21.97	33.00	H

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LTE Band 25_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-18.01	-29.30	9.80	21.09	33.00	H
1882.50	-17.23	-29.40	9.80	21.97	33.00	H
1914.30	-18.93	-29.30	9.80	20.17	33.00	H

LTE Band 25_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-18.11	-29.30	9.80	20.99	33.00	H
1882.50	-17.33	-29.40	9.80	21.87	33.00	H
1913.50	-18.70	-29.30	9.80	20.40	33.00	H

LTE Band 25_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.92	-29.30	9.80	21.18	33.00	H
1882.50	-17.32	-29.40	9.80	21.88	33.00	H
1912.50	-18.62	-29.30	9.80	20.48	33.00	H

LTE Band 25_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.96	-29.30	9.80	21.14	33.00	H
1882.00	-16.86	-29.40	9.80	22.34	33.00	H
1910.00	-18.54	-29.30	9.80	20.56	33.00	H

LTE Band 25_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.62	-29.30	9.80	21.48	33.00	H
1882.50	-17.12	-29.40	9.80	22.08	33.00	H
1907.50	-18.24	-29.30	9.80	20.86	33.00	H

LTE Band 25_20 MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-18.00	-29.30	9.80	21.10	33.00	H
1882.50	-17.41	-29.40	9.80	21.79	33.00	H
1905.00	-17.84	-29.30	9.80	21.26	33.00	H

Peak EIRP (dBm)=P_{Mea}(-15.90dBm)-(P_{cl}+P_{Ag})(-29.40dB)+G_a(9.80dB) =23.30dBm

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LTE band 26(814MHz-824MHz)- ERP Part 90.635(b)

Limits: ≤50.00dBm (100W)

LTE band 26(814MHz-824MHz)_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	**-13.31**	**-33.70**	**-0.30**	**2.15**	**17.94**	**50.00**	**V**
819.00	-14.42	-33.60	-0.30	2.15	16.73	50.00	V
823.30	-13.81	-33.60	-0.30	2.15	17.34	50.00	V

LTE band 26(814MHz-824MHz)_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-13.53	-33.70	-0.30	2.15	17.72	50.00	V
819.00	-14.43	-33.60	-0.30	2.15	16.72	50.00	V
822.50	-13.81	-33.60	-0.30	2.15	17.34	50.00	V

LTE band 26(814MHz-824MHz)_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-14.29	-33.70	-0.30	2.15	16.96	50.00	V
819.00	-14.19	-33.60	-0.30	2.15	16.96	50.00	V
821.50	-13.87	-33.60	-0.30	2.15	17.28	50.00	V

LTE band 26(814MHz-824MHz)_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-13.86	-33.60	-0.30	2.15	17.29	50.00	V
819.00	-13.86	-33.60	-0.30	2.15	17.29	50.00	V
819.00	-13.86	-33.60	-0.30	2.15	17.29	50.00	V

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LTE band 26(814MHz-824MHz)_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-13.42	-33.70	-0.30	2.15	17.83	50.00	V
819.00	-14.37	-33.60	-0.30	2.15	16.78	50.00	V
823.30	-14.13	-33.60	-0.30	2.15	17.02	50.00	V

LTE band 26(814MHz-824MHz)_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-13.32	-33.70	-0.30	2.15	17.93	50.00	V
819.00	-14.28	-33.60	-0.30	2.15	16.87	50.00	V
822.50	-14.02	-33.60	-0.30	2.15	17.13	50.00	V

LTE band 26(814MHz-824MHz)_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-14.03	-33.70	-0.30	2.15	17.22	50.00	V
819.00	-14.07	-33.60	-0.30	2.15	17.08	50.00	V
821.50	-13.87	-33.60	-0.30	2.15	17.28	50.00	V

LTE band 26(814MHz-824MHz)_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-14.02	-33.60	-0.30	2.15	17.13	50.00	V
819.00	-14.02	-33.60	-0.30	2.15	17.13	50.00	V
819.00	-14.02	-33.60	-0.30	2.15	17.13	50.00	V

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LTE band 26(814MHz-824MHz)_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-14.22	-33.70	-0.30	2.15	17.03	50.00	V
819.00	-15.55	-33.60	-0.30	2.15	15.60	50.00	V
823.30	-15.12	-33.60	-0.30	2.15	16.03	50.00	V

LTE band 26(814MHz-824MHz)_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-14.37	-33.70	-0.30	2.15	16.88	50.00	V
819.00	-15.40	-33.60	-0.30	2.15	15.75	50.00	V
822.50	-15.11	-33.60	-0.30	2.15	16.04	50.00	V

LTE band 26(814MHz-824MHz)_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-15.13	-33.70	-0.30	2.15	16.12	50.00	V
819.00	-14.99	-33.60	-0.30	2.15	16.16	50.00	V
821.50	-15.09	-33.60	-0.30	2.15	16.06	50.00	V

LTE band 26(814MHz-824MHz)_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-15.01	-33.60	-0.30	2.15	16.14	50.00	V
819.00	-15.01	-33.60	-0.30	2.15	16.14	50.00	V
819.00	-15.01	-33.60	-0.30	2.15	16.14	50.00	V

Peak ERP (dBm)=P_{Mea}(-13.31dBm)-(P_{cl}+P_{Ag})(-33.70dB)+G_a(-0.30dB) -2.15 =17.94dBm

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LTE band 26(824MHz-849MHz)- ERP Part 22.913(a)

Limits: ≤38.45dBm (7W)

LTE band 26(824MHz-849MHz)_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-13.23	-33.60	-0.30	2.15	17.92	38.45	V
836.50	-12.98	-33.50	-0.30	2.15	18.07	38.45	V
848.30	-14.11	-33.50	-0.30	2.15	16.94	38.45	V

LTE band 26(824MHz-849MHz)_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-12.99	-33.60	-0.30	2.15	18.16	38.45	V
836.50	-12.82	-33.50	-0.30	2.15	18.23	38.45	V
847.50	-14.03	-33.50	-0.30	2.15	17.02	38.45	V

LTE band 26(824MHz-849MHz)_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-12.85	-33.60	-0.30	2.15	18.30	38.45	V
836.50	-12.95	-33.50	-0.30	2.15	18.10	38.45	V
846.50	-13.92	-33.50	-0.30	2.15	17.13	38.45	V

LTE band 26(824MHz-849MHz)_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-12.90	-33.60	-0.30	2.15	18.25	38.45	V
836.50	-12.75	-33.50	-0.30	2.15	18.30	38.45	V
844.00	-13.76	-33.50	-0.30	2.15	17.29	38.45	V

LTE band 26(824MHz-849MHz)_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-12.84	-33.60	-0.30	2.15	18.31	38.45	V
836.50	-12.77	-33.50	-0.30	2.15	18.28	38.45	V
841.50	-13.78	-33.50	-0.30	2.15	17.27	38.45	V

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LTE band 26(824MHz-849MHz)_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-13.14	-33.60	-0.30	2.15	18.01	38.45	V
836.50	-12.86	-33.50	-0.30	2.15	18.19	38.45	V
848.30	-14.12	-33.50	-0.30	2.15	16.93	38.45	V

LTE band 26(824MHz-849MHz)_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-12.85	-33.60	-0.30	2.15	18.30	38.45	V
836.50	-12.85	-33.50	-0.30	2.15	18.20	38.45	V
847.50	-14.01	-33.50	-0.30	2.15	17.04	38.45	V

LTE band 26(824MHz-849MHz)_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-13.14	-33.60	-0.30	2.15	18.01	38.45	V
836.50	-12.84	-33.50	-0.30	2.15	18.21	38.45	V
846.50	-13.78	-33.50	-0.30	2.15	17.27	38.45	V

LTE band 26(824MHz-849MHz)_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	**-12.82**	**-33.60**	**-0.30**	**2.15**	**18.33**	**38.45**	**V**
836.50	-12.74	-33.50	-0.30	2.15	18.31	38.45	V
844.00	-13.91	-33.50	-0.30	2.15	17.14	38.45	V

LTE band 26(824MHz-849MHz)_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-12.61	-33.60	-0.30	2.15	18.54	38.45	V
836.50	-12.94	-33.50	-0.30	2.15	18.11	38.45	V
841.50	-14.01	-33.50	-0.30	2.15	17.04	38.45	V

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LTE band 26(824MHz-849MHz)_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-14.20	-33.60	-0.30	2.15	16.95	38.45	V
836.50	-14.00	-33.50	-0.30	2.15	17.05	38.45	V
848.30	-14.94	-33.50	-0.30	2.15	16.11	38.45	V

LTE band 26(824MHz-849MHz)_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-13.84	-33.60	-0.30	2.15	17.31	38.45	V
836.50	-13.85	-33.50	-0.30	2.15	17.20	38.45	V
847.50	-15.04	-33.50	-0.30	2.15	16.01	38.45	V

LTE band 26(824MHz-849MHz)_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-14.05	-33.60	-0.30	2.15	17.10	38.45	V
836.50	-13.76	-33.50	-0.30	2.15	17.29	38.45	V
846.50	-14.86	-33.50	-0.30	2.15	16.19	38.45	V

LTE band 26(824MHz-849MHz)_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-13.86	-33.60	-0.30	2.15	17.29	38.45	V
836.50	-13.85	-33.50	-0.30	2.15	17.20	38.45	V
844.00	-14.86	-33.50	-0.30	2.15	16.19	38.45	V

LTE band 26(824MHz-849MHz)_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-13.67	-33.60	-0.30	2.15	17.48	38.45	V
836.50	-13.80	-33.50	-0.30	2.15	17.25	38.45	V
841.50	-14.93	-33.50	-0.30	2.15	16.12	38.45	V

Peak ERP (dBm)=P_{Mea}(-12.82dBm)-(P_{cl}+P_{Ag})(-33.60dB)+G_a(-0.30dB) -2.15=18.33dBm

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LTE Band 30 - EIRP Part27.50(a)(3)

Limits: ≤23.98dBm (0.25W)

LTE Band 30_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2307.50	-32.13	-28.80	9.80	18.66	23.98	H
2310.00	-32.10	-28.80	9.80	18.49	23.98	H
2312.50	-32.21	-28.80	9.80	18.56	23.98	H

LTE Band 30_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2310.00	-32.13	-28.80	9.80	18.83	23.98	H

LTE Band 30_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2307.50	-32.13	-28.80	9.80	18.21	23.98	H
2310.00	-32.10	-28.80	9.80	18.46	23.98	H
2312.50	-32.21	-28.80	9.80	18.43	23.98	H

LTE Band 30_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2310.00	**-32.13**	**-28.80**	**9.80**	**19.44**	**23.98**	**H**

LTE Band 30_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2307.50	-32.13	-28.80	9.80	17.80	23.98	H
2310.00	-32.10	-28.80	9.80	17.46	23.98	H
2312.50	-32.21	-28.80	9.80	17.53	23.98	H

LTE Band 30_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2310.00	-32.13	-28.80	9.80	18.05	23.98	H

Peak EIRP (dBm)=P_{Mea}(-32.13dBm)-(P_{cl}+P_{Ag}) (-28.80dB)+G_a(9.80dB) =19.44dBm

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LTE Band 38 - EIRP Part 27.50(h)(2)

Limits: ≤33dBm (2W)

LTE Band 38_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-19.26	-28.60	10.70	20.04	33.00	H
2595.00	**-18.25**	**-28.60**	**10.70**	**21.05**	**33.00**	**H**
2617.50	-18.33	-28.60	10.70	20.97	33.00	H

LTE Band 38_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-19.70	-28.60	10.70	19.60	33.00	H
2595.00	-19.46	-28.60	10.70	19.84	33.00	H
2615.00	-19.35	-28.60	10.70	19.95	33.00	H

LTE Band 38_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-20.13	-28.60	10.70	19.17	33.00	H
2595.00	-19.17	-28.60	10.70	20.13	33.00	H
2612.50	-18.81	-28.60	10.70	20.49	33.00	H

LTE Band 38_20MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-20.39	-28.60	10.70	18.91	33.00	H
2595.00	-19.67	-28.60	10.70	19.63	33.00	H
2610.00	-19.38	-28.60	10.70	19.92	33.00	H

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LTE Band 38_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-19.26	-28.60	10.70	20.04	33.00	H
2595.00	**-18.25**	**-28.60**	**10.70**	**21.05**	**33.00**	**H**
2617.50	-18.33	-28.60	10.70	20.97	33.00	H

LTE Band 38_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-19.70	-28.60	10.70	19.60	33.00	H
2595.00	-19.46	-28.60	10.70	19.84	33.00	H
2615.00	-19.35	-28.60	10.70	19.95	33.00	H

LTE Band 38_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-20.13	-28.60	10.70	19.17	33.00	H
2595.00	-19.17	-28.60	10.70	20.13	33.00	H
2612.50	-18.81	-28.60	10.70	20.49	33.00	H

LTE Band 38_20 MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-20.39	-28.60	10.70	18.91	33.00	H
2595.00	-19.67	-28.60	10.70	19.63	33.00	H
2610.00	-19.38	-28.60	10.70	19.92	33.00	H

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LTE Band 38_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-20.49	-28.60	10.70	18.81	33.00	H
2595.00	-20.70	-28.60	10.70	18.60	33.00	H
2617.50	-20.25	-28.60	10.70	19.05	33.00	H

LTE Band 38_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-20.37	-28.60	10.70	18.93	33.00	H
2595.00	-20.14	-28.60	10.70	19.16	33.00	H
2615.00	-19.26	-28.60	10.70	20.04	33.00	H

LTE Band 38_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-20.41	-28.60	10.70	18.89	33.00	H
2595.00	-20.83	-28.60	10.70	18.47	33.00	H
2612.50	-21.04	-28.60	10.70	18.26	33.00	H

LTE Band 38_20 MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-21.28	-28.60	10.70	18.02	33.00	H
2595.00	-21.10	-28.60	10.70	18.20	33.00	H
2610.00	-20.92	-28.60	10.70	18.38	33.00	H

Peak EIRP (dBm)=P_{Mea}(-18.25dBm)-(P_{cl}+P_{Ag}) (-28.60dB)+G_a(10.70dB) =21.05dBm

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LTE Band 41 - EIRP Part 27.50(h)(2)

Limits: ≤33dBm (2W)

LTE Band 41_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-20.79	-28.70	10.70	18.61	33.00	V
2593.00	-21.90	-28.60	10.70	17.40	33.00	V
2687.50	-18.31	-28.50	10.70	20.89	33.00	V

LTE Band 41_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-20.89	-28.70	10.70	18.51	33.00	V
2593.00	-21.73	-28.60	10.70	17.57	33.00	V
2685.00	-18.31	-28.50	10.70	20.89	33.00	V

LTE Band 41_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.00	-20.89	-28.70	10.70	18.51	33.00	V
2593.00	-22.26	-28.60	10.70	17.04	33.00	V
2682.50	-18.98	-28.50	10.70	20.22	33.00	V

LTE Band 41_20MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-21.01	-28.70	10.70	18.39	33.00	V
2593.00	-22.16	-28.60	10.70	17.14	33.00	V
2680.00	-19.94	-28.50	10.70	19.26	33.00	V

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LTE Band 41_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-19.78	-28.70	10.70	19.62	33.00	V
2593.00	-21.39	-28.60	10.70	17.91	33.00	V
2687.50	-18.71	-28.50	10.70	20.49	33.00	V

LTE Band 41_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-20.28	-28.70	10.70	19.12	33.00	V
2593.00	-21.83	-28.60	10.70	17.47	33.00	V
2685.00	-18.03	-28.50	10.70	21.17	33.00	V

LTE Band 41_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.00	-19.83	-28.70	10.70	19.57	33.00	V
2593.00	-21.55	-28.60	10.70	17.75	33.00	V
2682.50	**-17.46**	**-28.50**	**10.70**	**21.74**	**33.00**	**V**

LTE Band 41_20 MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-19.91	-28.70	10.70	19.49	33.00	V
2593.00	-21.11	-28.60	10.70	18.19	33.00	V
2680.00	-18.96	-28.50	10.70	20.24	33.00	V

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LTE Band 41_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-19.99	-28.70	10.70	19.41	33.00	V
2593.00	-21.02	-28.60	10.70	18.28	33.00	V
2687.50	-18.16	-28.50	10.70	21.04	33.00	V

LTE Band 41_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-20.10	-28.70	10.70	19.30	33.00	V
2593.00	-20.90	-28.60	10.70	18.40	33.00	V
2685.00	-24.99	-28.50	10.70	14.21	33.00	V

LTE Band 41_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.00	-21.37	-28.70	10.70	18.03	33.00	V
2593.00	-22.29	-28.60	10.70	17.01	33.00	V
2682.50	-19.41	-28.50	10.70	19.79	33.00	V

LTE Band 41_20 MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-21.94	-28.70	10.70	17.46	33.00	V
2593.00	-21.98	-28.60	10.70	17.32	33.00	V
2680.00	-19.99	-28.50	10.70	19.21	33.00	V

Peak EIRP (dBm)=P_{Mea}(-17.46dBm)-(P_{cl}+P_{Ag}) (-28.50dB)+G_a(10.70dB) =21.74dBm

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LTE Band 66- EIRP Part 27.50(d)

Limits: ≤30dBm (1W)

LTE Band 66_1.4MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.94	-29.60	8.10	18.76	30.00	H
1745.00	-16.55	-29.50	8.10	21.05	30.00	H
1779.30	-15.32	-29.50	8.10	22.28	30.00	H

LTE Band 66_3MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.99	-29.60	8.10	18.71	30.00	H
1745.00	-16.61	-29.50	8.10	20.99	30.00	H
1778.50	-15.02	-29.50	8.10	22.58	30.00	H

LTE Band 66_5MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.99	-29.60	8.10	18.71	30.00	H
1745.00	-16.72	-29.50	8.10	20.88	30.00	H
1777.50	-15.00	-29.50	8.10	22.60	30.00	H

LTE Band 66_10MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.78	-29.60	8.10	18.92	30.00	H
1745.00	-16.66	-29.50	8.10	20.94	30.00	H
1775.00	-14.90	-29.50	8.10	22.70	30.00	H

LTE Band 66_15MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.88	-29.60	8.10	18.82	30.00	H
1745.00	-16.66	-29.50	8.10	20.94	30.00	H
1772.53	-15.02	-29.50	8.10	22.58	30.00	H

LTE Band 66_20MHz_QPSK

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.66	-29.60	8.10	19.04	30.00	H
1745.00	-17.21	-29.50	8.10	20.39	30.00	H
1770.00	-14.91	-29.50	8.10	22.69	30.00	H

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LTE Band 66_1.4MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.52	-29.60	8.10	19.18	30.00	H
1745.00	-16.49	-29.50	8.10	21.11	30.00	H
1779.30	-14.96	-29.50	8.10	22.64	30.00	H

LTE Band 66_3MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.48	-29.60	8.10	19.22	30.00	H
1745.00	-16.82	-29.50	8.10	20.78	30.00	H
1778.50	-14.95	-29.50	8.10	22.65	30.00	H

LTE Band 66_5MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.66	-29.60	8.10	19.04	30.00	H
1745.00	-16.72	-29.50	8.10	20.88	30.00	H
1777.50	-15.10	-29.50	8.10	22.50	30.00	H

LTE Band 66_10MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.48	-29.60	8.10	19.22	30.00	H
1745.00	-16.08	-29.50	8.10	21.52	30.00	H
1775.00	-14.75	-29.50	8.10	22.85	30.00	H

LTE Band 66_15MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.68	-29.60	8.10	19.02	30.00	H
1745.00	-16.52	-29.50	8.10	21.08	30.00	H
1772.53	**-14.34**	**-29.50**	**8.10**	**23.26**	**30.00**	**H**

LTE Band 66_20MHz_16QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.41	-29.60	8.10	19.29	30.00	H
1745.00	-16.85	-29.50	8.10	20.75	30.00	H
1770.00	-14.46	-29.50	8.10	23.14	30.00	H

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LTE Band 66_1.4MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-19.44	-29.60	8.10	18.26	30.00	H
1745.00	-16.49	-29.50	8.10	21.11	30.00	H
1779.30	-15.97	-29.50	8.10	21.63	30.00	H

LTE Band 66_3MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-19.44	-29.60	8.10	18.26	30.00	H
1745.00	-17.52	-29.50	8.10	20.08	30.00	H
1778.50	-15.80	-29.50	8.10	21.80	30.00	H

LTE Band 66_5MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-19.28	-29.60	8.10	18.42	30.00	H
1745.00	-17.43	-29.50	8.10	20.17	30.00	H
1777.50	-16.00	-29.50	8.10	21.60	30.00	H

LTE Band 66_10MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-19.34	-29.60	8.10	18.36	30.00	H
1745.00	-17.37	-29.50	8.10	20.23	30.00	H
1775.00	-16.03	-29.50	8.10	21.57	30.00	H

LTE Band 66_15MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-19.06	-29.60	8.10	18.64	30.00	H
1745.00	-17.21	-29.50	8.10	20.39	30.00	H
1772.53	-15.69	-29.50	8.10	21.91	30.00	H

LTE Band 66_20MHz_64QAM

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-19.24	-29.60	8.10	18.46	30.00	H
1745.00	-17.67	-29.50	8.10	19.93	30.00	H
1770.00	-15.58	-29.50	8.10	22.02	30.00	H

Peak EIRP (dBm)=P_{Mea}(-14.34dBm)-(P_{cl}+P_{Ag})(-29.50dB)+G_a(8.10dB) =23.26dBm

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LTE Band CA_5B - ERP Part 22.913(a)

Limits: ≤38.45dBm (7W)

LTE Band CA_5B _5MHz+10MHz _QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.80	834.00	-10.84	-33.50	-0.30	2.15	20.21	38.45	H
831.80	838.00	-11.13	-33.50	-0.30	2.15	19.92	38.45	H
836.80	846.50	-10.85	-33.50	-0.30	2.15	20.20	38.45	H

LTE Band CA_5B _10MHz+5MHz _QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	**836.20**	**-10.72**	**-33.50**	**-0.30**	**2.15**	**20.33**	**38.45**	**H**
834.00	841.20	-11.12	-33.50	-0.30	2.15	19.93	38.45	H
839.00	846.20	-11.31	-33.50	-0.30	2.15	19.74	38.45	H

LTE Band CA_5B _10MHz+10MHz _QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	838.90	-11.55	-33.50	-0.30	2.15	19.50	38.45	H
831.60	841.50	-11.56	-33.50	-0.30	2.15	19.49	38.45	H
834.10	844.00	-11.33	-33.50	-0.30	2.15	19.72	38.45	H

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LTE Band CA_5B _5MHz+10MHz _16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.80	834.00	-11.87	-33.50	-0.30	2.15	19.18	38.45	H
831.80	838.00	-12.09	-33.50	-0.30	2.15	18.96	38.45	H
836.80	846.50	-11.91	-33.50	-0.30	2.15	19.14	38.45	H

LTE Band CA_5B _10MHz+5MHz _16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	836.20	-11.71	-33.50	-0.30	2.15	19.34	38.45	H
834.00	841.20	-12.03	-33.50	-0.30	2.15	19.02	38.45	H
839.00	846.20	-12.40	-33.50	-0.30	2.15	18.65	38.45	H

LTE Band CA_5B _10MHz+10MHz _16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	838.90	-12.56	-33.50	-0.30	2.15	18.49	38.45	H
831.60	841.50	-12.60	-33.50	-0.30	2.15	18.45	38.45	H
834.10	844.00	-12.40	-33.50	-0.30	2.15	18.65	38.45	H

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LTE Band CA_5B _5MHz+10MHz _64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.80	834.00	-12.91	-33.50	-0.30	2.15	18.14	38.45	H
831.80	838.00	-13.04	-33.50	-0.30	2.15	18.01	38.45	H
836.80	846.50	-12.95	-33.50	-0.30	2.15	18.10	38.45	H

LTE Band CA_5B _10MHz+5MHz _64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	836.20	-12.77	-33.50	-0.30	2.15	18.28	38.45	H
834.00	841.20	-13.11	-33.50	-0.30	2.15	17.94	38.45	H
839.00	846.20	-13.38	-33.50	-0.30	2.15	17.67	38.45	H

LTE Band CA_5B _10MHz+10MHz _64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	838.90	-13.53	-33.50	-0.30	2.15	17.52	38.45	H
831.60	841.50	-13.49	-33.50	-0.30	2.15	17.56	38.45	H
834.10	844.00	-13.53	-33.50	-0.30	2.15	17.52	38.45	H

Peak ERP (dBm)=P_{Mea}(-10.72dBm)-(P_{cl}+P_{Ag})(-33.50dB)+G_a(-0.30dB) -2.15=20.33dBm

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LTE Band CA_41C - EIRP Part 27.50(h)(2)

Limits: ≤33dBm (2W)

LTE Band CA_41C _5MHz+20MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-17.68	-28.70	10.70	21.72	33.00	H
2583.80	**2595.50**	**-17.48**	**-28.60**	**10.70**	**21.82**	**33.00**	**H**
2668.30	2680.00	-17.66	-28.50	10.70	21.54	33.00	H

LTE Band CA_41C _10MHz+20MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-17.84	-28.70	10.70	21.56	33.00	H
2583.60	2598.00	-17.65	-28.60	10.70	21.65	33.00	H
2665.60	2680.00	-17.77	-28.60	10.70	21.53	33.00	H

LTE Band 41_15MHz+20MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-18.43	-28.70	10.70	20.97	33.00	H
2583.30	2600.40	-17.78	-28.60	10.70	21.52	33.00	H
2662.90	2680.00	-17.96	-28.60	10.70	21.34	33.00	H

LTE Band CA_41C _20MHz+5MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-18.42	-28.70	10.70	20.98	33.00	H
2590.50	2602.20	-18.08	-28.60	10.70	21.22	33.00	H
2675.00	2686.70	-17.72	-28.60	10.70	21.58	33.00	H

LTE Band CA_41C _20MHz+10MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-18.43	-28.70	10.70	20.97	33.00	H
2588.10	2602.50	-18.43	-28.60	10.70	20.87	33.00	H
2670.10	2684.50	-18.61	-28.60	10.70	20.69	33.00	H

LTE Band CA_41C _20MHz+15MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-18.49	-28.70	10.70	20.91	33.00	H
2585.60	2602.70	-18.62	-28.60	10.70	20.68	33.00	H
2665.10	2682.20	-18.82	-28.60	10.70	20.48	33.00	H

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LTE Band CA_41C _15MHz+15MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-18.23	-28.70	10.70	21.17	33.00	H
2585.50	2600.50	-18.71	-28.60	10.70	20.59	33.00	H
2667.50	2682.50	-18.97	-28.60	10.70	20.33	33.00	H

LTE Band CA_41C _20MHz+20MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-20.08	-28.70	10.70	19.32	33.00	H
2583.10	2602.90	-19.82	-28.60	10.70	19.48	33.00	H
2660.20	2680.00	-20.10	-28.60	10.70	19.20	33.00	H

LTE Band CA_41C _15MHz+10MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-19.20	-28.70	10.70	20.20	33.00	H
2588.10	2600.10	-18.96	-28.60	10.70	20.34	33.00	H
2672.70	2684.70	-19.46	-28.60	10.70	19.84	33.00	H

LTE Band CA_41C _10MHz+15MHz_QPSK

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-18.39	-28.70	10.70	21.01	33.00	H
2585.90	2597.90	-17.78	-28.60	10.70	21.52	33.00	H
2670.50	2682.50	-18.25	-28.60	10.70	21.05	33.00	H

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LTE Band CA_41C _5MHz+20MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-19.00	-28.70	10.70	20.40	33.00	H
2583.80	2595.50	-18.72	-28.60	10.70	20.58	33.00	H
2668.30	2680.00	-19.02	-28.50	10.70	20.18	33.00	H

LTE Band CA_41C _10MHz+20MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-19.17	-28.70	10.70	20.23	33.00	H
2583.60	2598.00	-19.15	-28.60	10.70	20.15	33.00	H
2665.60	2680.00	-19.26	-28.60	10.70	20.04	33.00	H

LTE Band CA_41C _15MHz+20MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-19.66	-28.70	10.70	19.74	33.00	H
2583.30	2600.40	-19.31	-28.60	10.70	19.99	33.00	H
2662.90	2680.00	-19.55	-28.60	10.70	19.75	33.00	H

LTE Band CA_41C _20MHz+5MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-19.70	-28.70	10.70	19.70	33.00	H
2590.50	2602.20	-19.25	-28.60	10.70	20.05	33.00	H
2675.00	2686.70	-18.95	-28.60	10.70	20.35	33.00	H

LTE Band CA_41C _20MHz+10MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-19.49	-28.70	10.70	19.91	33.00	H
2588.10	2602.50	-19.52	-28.60	10.70	19.78	33.00	H
2670.10	2684.50	-19.36	-28.60	10.70	19.94	33.00	H

LTE Band CA_41C _20MHz+15MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-19.43	-28.70	10.70	19.97	33.00	H
2585.60	2602.70	-19.55	-28.60	10.70	19.75	33.00	H
2665.10	2682.20	-19.90	-28.60	10.70	19.40	33.00	H

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LTE Band CA_41C _15MHz+15MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-19.37	-28.70	10.70	20.03	33.00	H
2585.50	2600.50	-19.49	-28.60	10.70	19.81	33.00	H
2667.50	2682.50	-19.69	-28.60	10.70	19.61	33.00	H

LTE Band CA_41C _20MHz+20MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-21.06	-28.70	10.70	18.34	33.00	H
2583.10	2602.90	-20.74	-28.60	10.70	18.56	33.00	H
2660.20	2680.00	-21.25	-28.60	10.70	18.05	33.00	H

LTE Band CA_41C _15MHz+10MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-20.21	-28.70	10.70	19.19	33.00	H
2588.10	2600.10	-19.93	-28.60	10.70	19.37	33.00	H
2672.70	2684.70	-20.40	-28.60	10.70	18.90	33.00	H

LTE Band CA_41C _10MHz+15MHz_16QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-19.41	-28.70	10.70	19.99	33.00	H
2585.90	2597.90	-18.91	-28.60	10.70	20.39	33.00	H
2670.50	2682.50	-19.28	-28.60	10.70	20.02	33.00	H

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LTE Band CA_41C _5MHz+20MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-20.12	-28.70	10.70	19.28	33.00	H
2583.80	2595.50	-19.68	-28.60	10.70	19.62	33.00	H
2668.30	2680.00	-19.94	-28.50	10.70	19.26	33.00	H

LTE Band CA_41C _10MHz+20MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-20.09	-28.70	10.70	19.31	33.00	H
2583.60	2598.00	-20.20	-28.60	10.70	19.10	33.00	H
2665.60	2680.00	-20.32	-28.60	10.70	18.98	33.00	H

LTE Band CA_41C _15MHz+20MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-20.59	-28.70	10.70	18.81	33.00	H
2583.30	2600.40	-20.32	-28.60	10.70	18.98	33.00	H
2662.90	2680.00	-20.61	-28.60	10.70	18.69	33.00	H

LTE Band CA_41C _20MHz+5MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-20.65	-28.70	10.70	18.75	33.00	H
2590.50	2602.20	-20.34	-28.60	10.70	18.96	33.00	H
2675.00	2686.70	-19.89	-28.60	10.70	19.41	33.00	H

LTE Band CA_41C _20MHz+10MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-20.50	-28.70	10.70	18.90	33.00	H
2588.10	2602.50	-20.54	-28.60	10.70	18.76	33.00	H
2670.10	2684.50	-20.43	-28.60	10.70	18.87	33.00	H

LTE Band CA_41C _20MHz+15MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-20.45	-28.70	10.70	18.95	33.00	H
2585.60	2602.70	-20.57	-28.60	10.70	18.73	33.00	H
2665.10	2682.20	-20.99	-28.60	10.70	18.31	33.00	H

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LTE Band CA_41C _15MHz+15MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-20.34	-28.70	10.70	19.06	33.00	H
2585.50	2600.50	-20.51	-28.60	10.70	18.79	33.00	H
2667.50	2682.50	-20.75	-28.60	10.70	18.55	33.00	H

LTE Band CA_41C _20MHz+20MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-21.55	-28.70	10.70	17.85	33.00	H
2583.10	2602.90	-21.48	-28.60	10.70	17.82	33.00	H
2660.20	2680.00	-21.71	-28.60	10.70	17.59	33.00	H

LTE Band CA_41C _15MHz+10MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-21.11	-28.70	10.70	18.29	33.00	H
2588.10	2600.10	-20.78	-28.60	10.70	18.52	33.00	H
2672.70	2684.70	-21.06	-28.60	10.70	18.24	33.00	H

LTE Band CA_41C _10MHz+15MHz_64QAM

Frequency(MHz)	Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)+ P_{Ag}(dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-20.46	-28.70	10.70	18.94	33.00	H
2585.90	2597.90	-19.97	-28.60	10.70	19.33	33.00	H
2670.50	2682.50	-20.20	-28.60	10.70	19.10	33.00	H

Peak EIRP (dBm)=P_{Mea}(-17.48dBm)-(P_{cl}+P_{Ag}) (-28.60dB)+G_a(10.70dB) =21.82dBm

ANALYZER SETTINGS:

RBW = VBW = 8MHz for occupied bandwidths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz), k = 2

Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

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A.2 FIELD STRENGTH OF SPURIOUS RADIATION

Reference

FCC: CFR 2.1053, 22.917, 24.238, 27.53, 90.543(e),90.691.

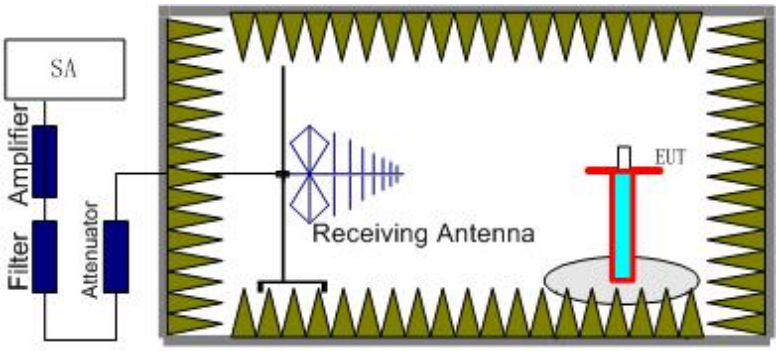
A.2.1 Measurement Method

This measurement is carried out in fully-anechoic chamber FAC-3.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.53(h) and 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the LTE Bands 2,4,5,7,12,13,14,17,25,26,30,38,41,66,CA_5B,CA_41C.

The procedure of radiated spurious emissions is as follows:

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. 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 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 (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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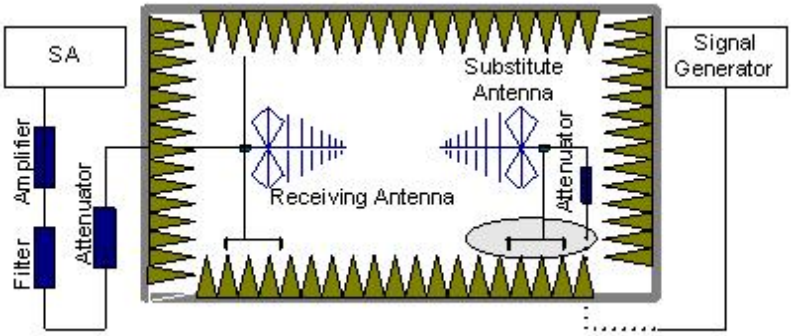

In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern 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 reaches 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(dBi) (G_a) should be recorded after test.
   An 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:
   Power (EIRP)=P_{Mea} - P_{pl} + G_a
5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dB.

A.2.2 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the LTE Bands 2,4,5,7,12,13,14,17,25,26,30,38,41,66,CA_5B,CA_41C. 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 the LTE Bands 2,4,5,7,12,13,14,17,25,26,30,38,41,66,CA_5B,CA_41C 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. Only worst case result is given below.

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LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2979.47	-47.72	1.00	11.50	-37.22	-13.00	H
5551.00	-55.72	1.40	13.10	-44.02	-13.00	H
7401.00	-43.98	1.90	11.30	-34.58	-13.00	H
11101.50	-55.61	1.80	11.30	-46.11	-13.00	V
12952.00	-54.06	2.50	13.30	-43.26	-13.00	V
14802.00	-50.90	2.70	12.40	-41.20	-13.00	V

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2962.93	-48.09	1.00	11.50	-37.59	-13.00	H
5638.50	-54.88	1.30	13.10	-43.08	-13.00	H
7518.00	-47.09	1.80	11.30	-37.59	-13.00	V
9397.50	-55.46	2.10	11.20	-46.36	-13.00	V
13157.00	-55.63	2.40	13.30	-44.73	-13.00	V
15037.00	-51.32	2.40	12.40	-41.32	-13.00	V

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2980.53	-47.54	1.00	11.50	-37.04	-13.00	V
5726.50	-45.12	1.50	13.10	-33.52	-13.00	H
7635.00	-44.30	1.80	11.30	-34.80	-13.00	V
9544.00	-50.02	2.10	11.20	-40.92	-13.00	V
13362.00	-47.89	2.50	12.40	-37.99	-13.00	V
17180.00	-47.48	2.90	14.50	-35.88	-13.00	V

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LTE Band 2, 1.4MHz, 16QAM, Channel 18607

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2916.53	-47.25	1.00	11.50	-36.75	-13.00	H
5550.50	-54.70	1.40	13.10	-43.00	-13.00	H
7401.00	-43.86	1.90	11.30	-34.46	-13.00	H
11101.50	-52.60	2.50	10.50	-44.60	-13.00	V
12952.00	-52.83	2.50	13.30	-42.03	-13.00	V
14802.00	-50.09	2.70	12.40	-40.39	-13.00	V

LTE Band 2, 1.4MHz, 16QAM, Channel 18900

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2996.80	-47.45	1.00	11.50	-36.95	-13.00	H
5638.50	-53.76	1.30	13.10	-41.96	-13.00	H
7518.00	-45.89	1.80	11.30	-36.39	-13.00	H
11277.50	-52.99	2.60	10.50	-45.09	-13.00	V
13157.00	-54.73	2.40	13.30	-43.83	-13.00	V
15036.50	-52.12	2.40	12.40	-42.12	-13.00	V

LTE Band 2, 1.4MHz, 16QAM, Channel 19193

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2985.60	-48.27	1.00	11.50	-37.77	-13.00	H
5726.50	-44.54	1.50	13.10	-32.94	-13.00	H
7635.50	-43.26	1.80	11.30	-33.76	-13.00	V
11453.00	-47.77	2.60	11.00	-39.37	-13.00	V
13362.00	-48.17	2.30	12.40	-38.07	-13.00	V
17180.00	-47.03	2.90	14.50	-35.43	-13.00	V

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LTE Band 2, 1.4MHz, 64QAM, Channel 18607

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2974.67	-47.47	1.00	11.50	-36.97	-13.00	H
5550.50	-55.00	1.40	13.10	-43.30	-13.00	H
7401.00	-44.27	1.90	11.30	-34.87	-13.00	H
11101.50	-53.14	2.50	10.50	-45.14	-13.00	V
12952.50	-53.03	2.50	13.30	-42.23	-13.00	V
14801.50	-50.57	2.70	12.40	-40.87	-13.00	V

LTE Band 2, 1.4MHz, 64QAM, Channel 18900

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2994.40	-47.77	1.00	11.50	-37.27	-13.00	H
5638.50	-53.02	1.30	13.10	-41.22	-13.00	H
7518.00	-46.38	1.80	11.30	-36.88	-13.00	H
11277.50	-53.15	2.60	10.50	-45.25	-13.00	V
13157.00	-54.61	2.40	13.30	-43.71	-13.00	V
15036.50	-52.08	2.40	12.40	-42.08	-13.00	V

LTE Band 2, 1.4MHz, 64QAM, Channel 19193

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2961.87	-47.19	1.00	11.50	-36.69	-13.00	H
5726.50	-44.37	1.50	13.10	-32.77	-13.00	H
7635.50	-44.95	1.80	11.30	-35.45	-13.00	V
9544.00	-49.66	2.10	11.20	-40.56	-13.00	V
13362.50	-48.18	2.30	12.40	-38.08	-13.00	V
17180.00	-47.56	2.90	14.50	-35.96	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 4, 1.4MHz QPSK, Channel 19957

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2967.73	-47.86	1.00	11.50	-37.36	-13.00	H
6840.50	-47.45	1.80	12.00	-37.25	-13.00	H
11972.00	-49.64	2.60	12.60	-39.64	-13.00	V
13682.00	-52.01	2.50	12.40	-42.11	-13.00	V
15392.50	-57.14	2.40	15.60	-43.94	-13.00	V
17103.00	-53.62	2.90	14.50	-42.02	-13.00	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2983.73	-47.95	1.00	11.50	-37.45	-13.00	V
6927.50	-46.02	1.80	12.00	-35.82	-13.00	H
12124.50	-47.62	2.60	12.60	-37.62	-13.00	V
13856.50	-50.49	2.20	11.90	-40.79	-13.00	V
15588.50	-55.12	2.70	15.60	-42.22	-13.00	V
17321.00	-47.33	2.90	12.80	-37.43	-13.00	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2963.20	-47.66	1.00	11.50	-37.16	-13.00	H
5261.50	-56.33	1.60	13.10	-44.83	-13.00	V
7015.50	-46.00	1.80	12.00	-35.80	-13.00	H
12277.50	-51.51	2.60	13.80	-40.31	-13.00	V
14031.00	-48.39	2.50	11.90	-38.99	-13.00	V
17538.50	-48.73	3.30	12.80	-39.23	-13.00	V

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LTE Band 4, 1.4MHz, 16QAM, Channel 19957

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2928.27	-47.58	1.00	11.50	-37.08	-13.00	V
6841.00	-46.39	1.80	12.00	-36.19	-13.00	H
11971.50	-48.27	2.60	12.60	-38.27	-13.00	V
13682.00	-50.05	2.50	12.40	-40.15	-13.00	V
15392.50	-54.74	2.40	15.60	-41.54	-13.00	V
17102.50	-52.30	2.90	14.50	-40.70	-13.00	V

LTE Band 4, 1.4MHz, 16QAM, Channel 20175

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2899.73	-46.68	1.00	11.50	-36.18	-13.00	V
6928.00	-44.14	1.80	12.00	-33.94	-13.00	H
12124.50	-46.98	2.60	12.60	-36.98	-13.00	V
13856.50	-49.75	2.20	11.90	-40.05	-13.00	V
15588.50	-55.40	2.70	15.60	-42.50	-13.00	V
17320.50	-47.37	2.90	12.80	-37.47	-13.00	V

LTE Band 4, 1.4MHz, 16QAM, Channel 20393

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2956.80	-47.98	1.00	11.50	-37.48	-13.00	H
5261.00	-55.87	1.60	13.10	-44.37	-13.00	V
7015.00	-46.56	1.80	12.00	-36.36	-13.00	H
12277.00	-52.70	2.60	13.80	-41.50	-13.00	V
14031.00	-47.78	2.50	11.90	-38.38	-13.00	V
17539.50	-50.87	3.30	12.80	-41.37	-13.00	V

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LTE Band 4, 1.4MHz, 64QAM, Channel 19957

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2967.73	-47.86	1.00	11.50	-37.36	-13.00	H
5130.50	-54.99	1.30	12.50	-43.79	-13.00	H
6841.00	-46.40	1.80	12.00	-36.20	-13.00	H
11972.00	-50.02	2.60	12.60	-40.02	-13.00	V
13682.00	-50.27	2.50	12.40	-40.37	-13.00	V
17102.50	-51.78	2.90	14.50	-40.18	-13.00	V

LTE Band 4, 1.4MHz, 64QAM, Channel 20175

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2983.73	-47.95	1.00	11.50	-37.45	-13.00	V
5196.00	-53.38	1.60	12.50	-42.48	-13.00	H
6928.00	-44.15	1.80	12.00	-33.95	-13.00	H
12124.50	-47.32	2.60	12.60	-37.32	-13.00	V
13856.00	-50.73	2.20	11.90	-41.03	-13.00	V
17320.50	-47.78	2.90	12.80	-37.88	-13.00	V

LTE Band 4, 1.4MHz, 64QAM, Channel 20393

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2961.60	-47.51	1.00	11.50	-37.01	-13.00	2961.60
5261.00	-56.29	1.60	13.10	-44.79	-13.00	5261.00
7015.50	-46.58	1.80	12.00	-36.38	-13.00	7015.50
12277.00	-52.74	2.60	13.80	-41.54	-13.00	12277.00
14030.50	-48.69	2.50	11.90	-39.29	-13.00	14030.50
17538.50	-49.14	3.30	12.80	-39.64	-13.00	17538.50

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2942.67	-47.29	1.00	11.50	-38.94	-13.00	H
3297.00	-61.80	1.10	12.20	-52.85	-13.00	V
4121.00	-62.32	1.20	12.40	-53.27	-13.00	H
4945.00	-62.51	1.30	12.50	-53.46	-13.00	H
7418.00	-59.30	1.90	11.30	-52.05	-13.00	H
9267.00	-60.28	2.00	11.20	-53.23	-13.00	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2975.73	-46.49	1.00	11.50	-38.14	-13.00	V
3344.50	-61.01	1.10	12.20	-52.06	-13.00	V
4180.00	-60.09	1.20	12.40	-51.04	-13.00	H
5016.50	-61.69	1.30	12.50	-52.64	-13.00	H
5852.50	-59.57	1.50	13.10	-50.12	-13.00	H
9197.00	-58.35	2.10	11.20	-51.40	-13.00	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2995.47	-47.41	1.00	11.50	-39.06	-13.00	V
3391.50	-62.20	1.10	12.20	-53.25	-13.00	V
4239.50	-63.30	1.20	12.40	-54.25	-13.00	V
5934.50	-59.79	1.50	13.10	-50.34	-13.00	H
7268.00	-61.90	1.90	12.00	-53.95	-13.00	V
9326.00	-59.17	2.10	11.20	-52.22	-13.00	V

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LTE Band 5, 1.4MHz, 16QAM, Channel 20407

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2934.93	-46.07	1.00	11.50	-37.72	-13.00	H
3297.00	-59.57	1.10	12.20	-50.62	-13.00	V
4121.00	-61.00	1.20	12.40	-51.95	-13.00	V
6488.50	-63.10	1.70	12.40	-54.55	-13.00	V
8314.50	-62.21	1.80	12.00	-54.16	-13.00	V
9356.50	-60.61	2.10	11.20	-53.66	-13.00	H

LTE Band 5, 1.4MHz, 16QAM, Channel 20525

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2953.60	-47.33	1.00	11.50	-38.98	-13.00	H
3344.50	-61.11	1.10	12.20	-52.16	-13.00	H
4180.00	-61.13	1.20	12.40	-52.08	-13.00	H
5852.50	-58.65	1.50	13.10	-49.20	-13.00	H
7940.50	-61.54	1.90	11.30	-54.29	-13.00	V
9623.50	-51.34			-53.49	-13.00	H

LTE Band 5, 1.4MHz, 16QAM, Channel 20643

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2924.53	-46.90	1.00	11.50	-38.55	-13.00	H
3391.00	-61.95	1.10	12.20	-53.00	-13.00	V
4239.00	-62.89	1.20	12.40	-53.84	-13.00	V
5935.00	-59.47	1.50	13.10	-50.02	-13.00	H
8308.50	-62.17	1.80	12.00	-54.12	-13.00	V
9441.50	-61.17	2.10	11.20	-54.22	-13.00	V

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LTE Band 5, 1.4MHz, 64QAM, Channel 20407

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2987.47	-47.21	1.00	11.50	-38.86	-13.00	V
3297.00	-60.08	1.10	12.20	-51.13	-13.00	V
4121.00	-60.77	1.20	12.40	-51.72	-13.00	H
6634.00	-63.40	1.80	12.40	-54.95	-13.00	H
8046.50	-60.96	2.00	11.30	-53.81	-13.00	V
9582.50	-60.63	2.10	11.20	-53.68	-13.00	H

LTE Band 5, 1.4MHz, 64QAM, Channel 20525

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2984.80	-47.53	1.00	11.50	-39.18	-13.00	V
3344.00	-61.12	1.10	12.20	-52.17	-13.00	V
4180.00	-61.57	1.20	12.40	-52.52	-13.00	H
5852.00	-60.35	1.50	13.10	-50.90	-13.00	H
7491.50	-62.05	1.90	11.30	-54.80	-13.00	V
9181.00	-60.55	2.10	11.20	-53.60	-13.00	V

LTE Band 5, 1.4MHz, 64QAM, Channel 20643

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2938.13	-47.28	1.00	11.50	-38.93	-13.00	H
3391.00	-61.35	1.20	12.20	-52.50	-13.00	V
4239.00	-61.91	1.20	12.40	-52.86	-13.00	H
5935.00	-60.42	1.50	13.10	-50.97	-13.00	H
7912.00	-61.13	1.90	11.30	-53.88	-13.00	V
9326.50	-56.75	2.10	11.20	-49.80	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2916.27	-46.86	1.00	11.50	-36.36	-25.00	V
7501.00	-54.12	1.80	11.30	-44.62	-25.00	V
10001.50	-52.63	2.00	11.30	-43.33	-25.00	V
12502.00	-56.38	2.40	13.80	-44.98	-25.00	H
14635.50	-55.86	2.50	11.20	-47.16	-25.00	V
17156.00	-55.75	2.90	14.50	-44.15	-25.00	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2985.87	-47.78	1.00	11.50	-37.28	-25.00	V
7598.50	-54.91	1.80	11.30	-45.41	-25.00	H
10131.50	-52.98	2.20	11.30	-43.88	-25.00	V
12664.00	-55.82	2.60	13.80	-44.62	-25.00	V
15197.00	-54.82	2.50	12.40	-44.92	-25.00	H
16756.50	-58.23	2.90	16.50	-44.63	-25.00	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2986.13	-47.79	1.00	11.50	-37.29	-25.00	V
7696.00	-56.02	1.80	11.30	-46.52	-25.00	V
10261.50	-52.75	2.10	10.80	-44.05	-25.00	V
11974.00	-58.26	2.60	12.60	-48.26	-25.00	V
12827.00	-56.46	2.50	13.30	-45.66	-25.00	V
17605.00	-54.23	3.30	12.80	-44.73	-25.00	V

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LTE Band 7, 5 MHz, 16QAM, Channel 20775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2942.93	-47.52	1.00	11.50	-37.02	-25.00	H
7501.00	-52.71	1.80	11.30	-43.21	-25.00	V
10001.50	-50.89	2.00	11.30	-41.59	-25.00	V
12502.00	-55.06	2.40	13.80	-43.66	-25.00	V
14926.50	-56.29	2.40	12.40	-46.29	-25.00	H
16940.00	-56.09	2.90	14.50	-44.49	-25.00	V

LTE Band 7, 5 MHz, 16QAM, Channel 21100

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2985.87	-47.22	1.00	11.50	-36.72	-25.00	V
7598.50	-54.86	1.80	11.30	-45.36	-25.00	H
10131.50	-51.94	2.20	11.30	-42.84	-25.00	V
12012.50	-58.17	2.70	12.60	-48.27	-25.00	V
12664.00	-56.03	2.60	13.80	-44.83	-25.00	H
16780.50	-58.53	2.90	16.50	-44.93	-25.00	H

LTE Band 7, 5 MHz, 16QAM, Channel 21425

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2965.33	-48.07	1.00	11.50	-37.57	-25.00	H
7696.00	-55.09	1.80	11.30	-45.59	-25.00	V
10261.00	-52.51	2.10	10.80	-43.81	-25.00	V
11573.50	-56.84	2.60	11.00	-48.44	-25.00	H
12827.00	-56.55	2.50	13.30	-45.75	-25.00	V
16581.50	-58.78	2.60	16.50	-44.88	-25.00	H

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LTE Band 7, 5 MHz, 64QAM, Channel 20775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2949.60	-47.32	1.00	11.50	-36.82	-25.00	H
7500.50	-53.42	1.80	11.30	-43.92	-25.00	V
10001.50	-50.67	2.00	11.30	-41.37	-25.00	V
12501.50	-54.98	2.40	13.80	-43.58	-25.00	H
14931.00	-56.68	2.40	12.40	-46.68	-25.00	V
17022.50	-55.54	2.90	14.50	-43.94	-25.00	V

LTE Band 7, 5 MHz, 64QAM, Channel 21100

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2970.67	-47.63	1.00	11.50	-37.13	-25.00	V
7598.50	-53.72	1.80	11.30	-44.22	-25.00	H
10131.50	-51.08	2.20	11.30	-41.98	-25.00	V
12664.00	-55.69	2.60	13.80	-44.49	-25.00	H
15054.00	-57.18	2.40	12.40	-47.18	-25.00	V
17094.50	-56.17	2.90	14.50	-44.57	-25.00	H

LTE Band 7, 5 MHz, 64QAM, Channel 21425

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2929.60	-48.09	1.00	11.50	-37.59	-25.00	H
7696.00	-55.14	1.80	11.30	-45.64	-25.00	V
10261.50	-52.26	2.10	10.80	-43.56	-25.00	V
11655.50	-56.92	2.60	11.00	-48.52	-25.00	V
12827.00	-56.60	2.70	13.30	-46.00	-25.00	V
17182.50	-56.32	2.90	14.50	-44.72	-25.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2965.07	-47.43	1.00	11.50	-39.08	-13.00	V
6684.00	-62.10	1.70	12.40	-53.55	-13.00	V
7107.50	-61.86	1.90	12.00	-53.91	-13.00	V
8109.50	-60.89	2.20	11.30	-53.94	-13.00	V
8646.50	-61.54	2.00	12.00	-53.69	-13.00	V
9476.50	-59.79	2.10	11.20	-52.84	-13.00	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2957.87	-47.27	1.00	11.50	-38.92	-13.00	H
6147.50	-64.06	1.60	13.10	-54.71	-13.00	H
6400.50	-62.63	1.60	12.40	-53.98	-13.00	V
7268.50	-61.79	1.90	12.00	-53.84	-13.00	H
7983.50	-60.06	1.90	11.30	-52.81	-13.00	V
9228.50	-60.92	2.00	11.20	-53.87	-13.00	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2975.47	-47.61	1.00	11.50	-39.26	-13.00	V
6440.00	-62.90	1.60	12.40	-54.25	-13.00	V
7240.00	-61.03	1.90	12.00	-53.08	-13.00	V
8341.00	-61.74	1.80	12.00	-53.69	-13.00	V
8967.00	-60.99	2.00	11.60	-53.54	-13.00	V
9663.50	-59.71	2.20	11.20	-52.86	-13.00	V

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LTE Band 12, 1.4MHz, 16QAM, Channel 23017

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2951.73	-48.26	1.00	11.50	-39.91	-13.00	H
6363.00	-62.13	1.60	12.40	-53.48	-13.00	H
7533.00	-61.16	1.80	11.30	-53.81	-13.00	H
8344.50	-61.91	1.80	12.00	-53.86	-13.00	V
8736.50	-60.43	1.90	11.60	-52.88	-13.00	V
9509.00	-60.21	2.10	11.20	-53.26	-13.00	V

LTE Band 12, 1.4MHz 16QAM, Channel 23095

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2926.13	-47.41	1.00	11.50	-39.06	-13.00	H
6425.50	-61.84	1.60	12.40	-53.19	-13.00	H
7145.50	-62.30	1.80	12.00	-54.25	-13.00	V
7984.00	-60.81	1.90	11.30	-53.56	-13.00	V
8770.00	-61.12	1.90	11.60	-53.57	-13.00	V
9193.00	-60.01	2.10	11.20	-53.06	-13.00	V

LTE Band 12, 1.4MHz, 16QAM, Channel 23173

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2966.67	-47.15	1.00	11.50	-38.80	-13.00	H
6461.00	-62.69	1.70	12.40	-54.14	-13.00	V
6882.00	-62.31	1.80	12.00	-54.26	-13.00	H
7899.00	-60.82	1.70	11.30	-53.37	-13.00	V
8695.50	-62.14	2.00	12.00	-54.29	-13.00	V
9712.50	-59.59	2.30	11.30	-52.74	-13.00	H

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LTE Band 12, 1.4MHz, 64QAM, Channel 23017

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2944.27	-47.38	1.00	11.50	-39.03	-13.00	H
5526.00	-65.53	1.40	13.10	-55.98	-13.00	V
6518.00	-62.70	1.70	12.40	-54.15	-13.00	H
7247.50	-61.83	1.90	12.00	-53.88	-13.00	V
7999.00	-61.11	2.00	11.30	-53.96	-13.00	V
9197.50	-60.59	2.10	11.20	-53.64	-13.00	H

LTE Band 12, 1.4MHz 64QAM, Channel 23095

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2970.13	-47.20	1.00	11.50	-38.85	-13.00	H
5845.50	-65.01	1.50	13.10	-55.56	-13.00	H
6325.50	-64.25	1.60	12.40	-55.60	-13.00	H
6694.00	-63.96	1.70	12.40	-55.41	-13.00	H
8020.00	-61.98	2.00	11.30	-54.83	-13.00	V
9410.00	-60.81	2.10	11.20	-53.86	-13.00	V

LTE Band 12, 1.4MHz, 64QAM, Channel 23173

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2472.27	-46.11	0.90	10.70	-38.46	-13.00	V
5414.00	-65.68	1.30	13.10	-56.03	-13.00	V
6068.00	-64.56	1.60	13.10	-55.21	-13.00	V
7434.50	-60.98	1.90	11.30	-53.73	-13.00	H
8384.50	-62.76	1.80	12.00	-54.71	-13.00	V
9504.00	-60.98	2.10	11.20	-54.03	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 13, 5 MHz, QPSK, Channel 23205

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1579.30	-54.14	0.70	8.10	-48.89	-40.00	V
6541.50	-63.36	1.70	12.40	-54.81	-13.00	H
7375.00	-61.16	1.90	11.30	-53.91	-13.00	V
7990.50	-61.05	2.00	11.30	-53.90	-13.00	V
8747.50	-61.25	1.90	11.60	-53.70	-13.00	V
9289.50	-60.36	2.00	11.20	-53.31	-13.00	V

LTE Band 13, 5 MHz, QPSK, Channel 23230

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1582.40	-56.28	0.70	8.10	-51.03	-40.00	V
6511.50	-62.51	1.70	12.40	-53.96	-13.00	V
7807.00	-61.10	1.70	11.30	-53.65	-13.00	H
8383.50	-61.94	1.80	12.00	-53.89	-13.00	V
9059.50	-60.34	2.20	11.60	-53.09	-13.00	V
9351.00	-59.30	2.10	11.20	-52.35	-13.00	V

LTE Band 13, 5 MHz, QPSK, Channel 23255

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1594.30	-56.02	0.70	8.10	-50.77	-40.00	V
6486.00	-62.36	1.70	12.40	-53.81	-13.00	V
7930.50	-60.55	1.90	11.30	-53.30	-13.00	V
8046.50	-60.62	1.80	11.30	-53.27	-13.00	V
8299.00	-60.39	1.90	11.30	-53.14	-13.00	H
8921.50	-60.50	2.00	11.60	-53.05	-13.00	V

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LTE Band 13, 5 MHz, 16QAM, Channel 23205

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1603.70	-53.47	0.70	8.10	-48.22	-40.00	H
7360.50	-60.86	1.90	11.30	-53.61	-13.00	V
7903.00	-61.23	1.90	11.30	-53.98	-13.00	V
8062.00	-60.78	1.80	11.30	-53.43	-13.00	V
8765.50	-61.44	1.90	11.60	-53.89	-13.00	V
9462.00	-59.42	2.10	11.20	-52.47	-13.00	V

LTE Band 13, 5 MHz, 16QAM, Channel 23230

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1587.90	-56.49	0.70	8.10	-51.24	-40.00	H
7212.00	-62.28	1.90	12.00	-54.33	-13.00	H
7547.50	-61.53	1.80	11.30	-54.18	-13.00	V
7895.00	-60.72	1.70	11.30	-53.27	-13.00	V
8668.50	-62.12	2.00	12.00	-54.27	-13.00	V
9163.50	-59.16	2.10	11.20	-52.21	-13.00	V

LTE Band 13, 5 MHz, 16QAM, Channel 23255

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1589.60	-57.01	0.70	8.10	-51.76	-40.00	V
7311.50	-61.39	1.70	11.30	-53.94	-13.00	H
7732.50	-60.93	1.80	11.30	-53.58	-13.00	V
8213.50	-61.14	1.90	11.30	-53.89	-13.00	V
9094.50	-60.17	2.20	11.60	-52.92	-13.00	V
9245.00	-59.46	2.00	11.20	-52.41	-13.00	H

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LTE Band 13, 5 MHz, 64QAM, Channel 23205

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1576.93	-59.91	1.00	11.50	-51.56	-40.00	V
6310.50	-63.13	1.60	12.40	-54.48	-13.00	V
7118.00	-61.64	1.80	12.00	-53.59	-13.00	V
7649.00	-61.30	1.80	11.30	-53.95	-13.00	V
8642.50	-61.53	2.00	12.00	-53.68	-13.00	V
9320.00	-60.66	2.10	11.20	-53.71	-13.00	H

LTE Band 13, 5 MHz, 64QAM, Channel 23230

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1597.40	-57.49	1.00	11.50	-49.14	-40.00	H
3899.00	-62.28	1.30	12.40	-53.33	-13.00	H
4679.00	-62.65	1.30	12.50	-53.60	-13.00	V
7278.50	-61.86	1.90	12.00	-53.91	-13.00	V
8339.50	-61.84	1.80	12.00	-53.79	-13.00	V
9465.00	-60.00	2.10	11.20	-53.05	-13.00	V

LTE Band 13, 5 MHz, 64QAM, Channel 23255

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1600.30	-56.58	1.00	11.50	-48.23	-40.00	V
6160.00	-63.44	1.60	13.10	-54.09	-13.00	H
6329.50	-62.48	1.60	12.40	-53.83	-13.00	H
7332.50	-61.30	1.70	11.30	-53.85	-13.00	V
7967.00	-60.66	1.90	11.30	-53.41	-13.00	H
9182.50	-59.69	2.10	11.20	-52.74	-13.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 14, 5MHz, QPSK, Channel 23305

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1576.67	-54.03	0.70	8.10	-48.78	-40.00	V
6333.50	-74.98	1.60	12.40	-66.33	-40.00	H
7255.50	-73.48	1.90	12.00	-65.53	-40.00	H
7985.50	-72.76	1.90	11.30	-65.51	-40.00	V
8708.50	-73.23	1.90	11.60	-65.68	-40.00	V
9551.00	-72.30	2.10	11.20	-65.35	-40.00	V

LTE Band 14, 5MHz, QPSK, Channel 23330

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1581.80	-57.87	0.70	8.10	-52.62	-40.00	V
6550.00	-74.74	1.70	12.40	-66.19	-40.00	V
7291.00	-73.79	1.90	12.00	-65.84	-40.00	V
8088.50	-72.86	1.80	11.30	-65.51	-40.00	V
9097.50	-73.07	2.20	11.60	-65.82	-40.00	V
9461.00	-71.89	2.10	11.20	-64.94	-40.00	V

LTE Band 14, 5MHz, QPSK, Channel 23355

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1586.57	-55.52	0.70	8.10	-50.27	-40.00	V
5450.00	-77.28	1.40	13.10	-67.73	-40.00	H
6333.50	-74.88	1.60	12.40	-66.23	-40.00	H
7015.50	-74.66	1.80	12.00	-66.61	-40.00	V
8065.50	-72.51	1.80	11.30	-65.16	-40.00	V
9689.50	-72.26	2.20	11.20	-65.41	-40.00	V

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LTE Band 14, 5MHz, 16QAM, Channel 23305

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1576.67	-54.60	0.70	8.10	-49.35	-40.00	V
3153.00	-71.60	1.00	11.50	-63.25	-40.00	V
3941.50	-74.20	1.20	12.40	-65.15	-40.00	H
5518.50	-74.79	1.40	13.10	-65.24	-40.00	V
7095.00	-71.10	1.80	12.00	-63.05	-40.00	H
9459.50	-71.23	2.10	11.20	-64.28	-40.00	V

LTE Band 14, 5MHz 16QAM, Channel 23330

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1581.80	-58.52	0.70	8.10	-53.27	-40.00	V
3163.00	-73.91	1.00	11.50	-65.56	-40.00	V
3954.00	-74.65	1.20	12.40	-65.60	-40.00	H
7117.50	-71.90	1.90	12.00	-63.95	-40.00	H
8166.50	-72.92	2.20	11.30	-65.97	-40.00	V
9357.50	-72.28	2.10	11.20	-65.33	-40.00	V

LTE Band 14, 5MHz, 16QAM, Channel 23355

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1586.57	-56.54	0.70	8.10	-51.29	-40.00	V
3173.00	-74.73	1.00	11.50	-66.38	-40.00	V
5666.00	-76.78	1.30	13.10	-67.13	-40.00	V
7140.00	-73.69	1.80	12.00	-65.64	-40.00	H
8328.50	-73.26	1.80	12.00	-65.21	-40.00	V
9206.50	-71.88	2.10	11.20	-64.93	-40.00	V

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LTE Band 14, 5MHz, 64QAM, Channel 23305

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1576.67	-55.72	0.70	8.10	-50.47	-40.00	V
3153.00	-72.78	1.00	11.50	-64.43	-40.00	V
3941.50	-74.43	1.20	12.40	-65.38	-40.00	H
5518.00	-75.48	1.40	13.10	-65.93	-40.00	V
7095.00	-72.44	1.80	12.00	-64.39	-40.00	H
9250.50	-72.39	2.00	11.20	-65.34	-40.00	V

LTE Band 14, 5MHz 64QAM, Channel 23330

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1581.80	-59.66	0.70	8.10	-54.41	-40.00	V
5974.00	-76.28	1.50	13.10	-66.83	-40.00	H
6541.50	-74.65	1.70	12.40	-66.10	-40.00	V
7182.00	-74.81	1.80	12.00	-66.76	-40.00	V
8076.00	-72.61	1.80	11.30	-65.26	-40.00	V
9444.00	-72.37	2.10	11.20	-65.42	-40.00	V

LTE Band 14, 5MHz, 64QAM, Channel 23355

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
1586.93	-58.49	0.70	8.10	-53.24	-40.00	V
4666.00	-76.49	1.30	12.50	-67.44	-40.00	V
6509.00	-74.55	1.70	12.40	-66.00	-40.00	V
7270.50	-73.58	1.90	12.00	-65.63	-40.00	V
8067.00	-72.59	1.80	11.30	-65.24	-40.00	V
9476.00	-72.33	2.10	11.20	-65.38	-40.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 17, 5MHz, QPSK, Channel 23755

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2971.73	-47.26	1.00	11.50	-38.91	-13.00	H
6867.00	-62.58	1.80	12.00	-54.53	-13.00	H
7383.00	-61.40	1.90	11.30	-54.15	-13.00	V
8411.50	-61.61	1.80	12.00	-53.56	-13.00	V
8781.50	-61.36	1.90	11.60	-53.81	-13.00	V
9445.50	-59.93	2.10	11.20	-52.98	-13.00	V

LTE Band 17, 5MHz, QPSK, Channel 23790

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2464.80	-46.52	0.90	10.70	-38.87	-13.00	H
6792.00	-61.68	1.80	12.00	-53.63	-13.00	V
7236.50	-61.91	1.90	12.00	-53.96	-13.00	V
7835.00	-61.43	1.70	11.30	-53.98	-13.00	H
8762.50	-61.09	1.90	11.60	-53.54	-13.00	V
9677.00	-60.66	2.20	11.20	-53.81	-13.00	V

LTE Band 17, 5MHz, QPSK, Channel 23825

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2409.87	-43.99	0.90	10.70	-36.34	-13.00	V
4907.00	-63.42	1.30	12.50	-54.37	-13.00	V
6432.00	-62.00	1.60	12.40	-53.35	-13.00	H
7161.50	-62.83	1.80	12.00	-54.78	-13.00	V
8046.00	-60.09	2.00	11.30	-52.94	-13.00	V
9377.00	-60.91	2.10	11.20	-53.96	-13.00	H

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LTE Band 17, 5MHz, 16QAM, Channel 23755

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2901.07	-47.14	1.00	11.50	-38.79	-13.00	V
6879.50	-62.23	1.80	12.00	-54.18	-13.00	H
7970.00	-60.72	1.90	11.30	-53.47	-13.00	H
8420.50	-61.51	1.80	12.00	-53.46	-13.00	V
8835.50	-61.48	1.90	11.60	-53.93	-13.00	H
9459.00	-60.07	2.10	11.20	-53.12	-13.00	V

LTE Band 17, 5MHz 16QAM, Channel 23790

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2927.73	-47.70	1.00	11.50	-39.35	-13.00	V
6814.00	-61.84	1.80	12.00	-53.79	-13.00	V
7640.50	-60.90	1.80	11.30	-53.55	-13.00	V
7932.00	-61.12	1.90	11.30	-53.87	-13.00	V
8693.50	-61.27	2.00	12.00	-53.42	-13.00	V
9453.50	-59.99	2.10	11.20	-53.04	-13.00	H

LTE Band 17, 5MHz, 16QAM, Channel 23825

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2944.00	-47.06	1.00	11.50	-38.71	-13.00	H
6833.50	-61.75	1.80	12.00	-53.70	-13.00	V
7957.00	-60.78	1.90	11.30	-53.53	-13.00	V
8341.00	-61.49	1.80	12.00	-53.44	-13.00	V
9144.00	-59.33	2.10	11.20	-52.38	-13.00	V
9549.00	-60.39	2.10	11.20	-53.44	-13.00	H

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LTE Band 17, 5MHz, 64QAM, Channel 23755

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2971.20	-47.27	1.00	11.50	-38.92	-13.00	H
7257.50	-61.92	1.90	12.00	-53.97	-13.00	H
8072.50	-60.77	1.80	11.30	-53.42	-13.00	V
8728.50	-60.50	1.90	11.60	-52.95	-13.00	V
9452.00	-59.64	2.10	11.20	-52.69	-13.00	H
9743.50	-59.14	2.30	11.30	-52.29	-13.00	H

LTE Band 17, 5MHz 64QAM, Channel 23790

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2956.00	-46.99	1.00	11.50	-38.64	-13.00	H
6490.00	-62.15	1.70	12.40	-53.60	-13.00	H
7277.00	-61.61	1.90	12.00	-53.66	-13.00	V
8067.50	-60.69	1.80	11.30	-53.34	-13.00	V
8349.00	-61.17	1.80	12.00	-53.12	-13.00	V
9185.50	-59.86	2.10	11.20	-52.91	-13.00	V

LTE Band 17, 5MHz, 64QAM, Channel 23825

Frequency(MHz)	PMea(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2921.60	-46.76	1.00	11.50	-38.41	-13.00	H
6455.00	-62.07	1.60	12.40	-53.42	-13.00	H
6865.00	-61.61	1.80	12.00	-53.56	-13.00	V
8343.00	-61.52	1.80	12.00	-53.47	-13.00	V
8914.50	-60.39	2.00	11.60	-52.94	-13.00	V
9421.50	-60.21	2.10	11.20	-53.26	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2934.40	-47.52	1.00	11.50	-37.02	-13.00	H
5550.50	-57.29	1.40	13.10	-45.59	-13.00	H
7401.00	-42.03	1.90	11.30	-32.63	-13.00	V
11101.50	-52.14	2.50	10.50	-44.14	-13.00	H
12952.00	-53.54	2.50	13.30	-42.74	-13.00	H
14802.50	-47.88	2.70	12.40	-38.18	-13.00	H

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2725.60	-47.59	1.00	10.70	-37.89	-13.00	V
5646.00	-55.93	1.30	13.10	-44.13	-13.00	V
7528.00	-46.39	1.80	11.30	-36.89	-13.00	V
9410.00	-51.55	2.10	11.20	-42.45	-13.00	V
13174.50	-51.99	2.40	13.30	-41.09	-13.00	H
15056.50	-49.29	2.40	12.40	-39.29	-13.00	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2903.47	-47.95	1.00	11.50	-37.45	-13.00	V
5741.00	-47.77	1.50	13.10	-36.17	-13.00	H
7655.50	-46.36	1.80	11.30	-36.86	-13.00	V
9569.50	-48.86	2.10	11.20	-39.76	-13.00	V
13397.00	-46.47	2.50	12.40	-36.57	-13.00	H
15310.50	-43.80	2.70	12.40	-34.10	-13.00	H

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LTE Band 25, 1.4MHz, 16QAM, Channel 26047

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2893.33	-47.62	1.00	11.50	-37.12	-13.00	H
5551.00	-53.78	1.40	13.10	-42.08	-13.00	V
7401.00	-43.18	1.90	11.30	-33.78	-13.00	V
11101.50	-50.66	2.50	10.50	-42.66	-13.00	H
12951.50	-52.09	2.50	13.30	-41.29	-13.00	H
14802.00	-46.04	2.70	12.40	-36.34	-13.00	H

LTE Band 25, 1.4MHz, 16QAM, Channel 26365

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2902.93	-47.24	1.00	11.50	-36.74	-13.00	H
5646.00	-54.72	1.30	13.10	-42.92	-13.00	V
7528.00	-46.55	1.80	11.30	-37.05	-13.00	V
9410.50	-50.13	2.10	11.20	-41.03	-13.00	H
13174.50	-54.28	2.40	13.30	-43.38	-13.00	H
15056.50	-52.13	2.40	12.40	-42.13	-13.00	H

LTE Band 25, 1.4MHz, 16QAM, Channel 26683

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2823.73	-47.87	1.00	11.50	-37.37	-13.00	H
5741.50	-46.54	1.50	13.10	-34.94	-13.00	H
7655.50	-44.91	1.80	11.30	-35.41	-13.00	V
9569.00	-51.21	2.10	11.20	-42.11	-13.00	V
13397.00	-46.54	2.50	12.40	-36.64	-13.00	H
15311.00	-42.44	2.70	12.40	-32.74	-13.00	H

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LTE Band 25, 1.4MHz, 64QAM, Channel 26047

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2974.13	-48.26	1.00	11.50	-37.76	-13.00	V
5551.00	-56.91	1.40	13.10	-45.21	-13.00	H
7401.00	-41.78	1.90	11.30	-32.38	-13.00	V
11101.50	-52.29	2.50	10.50	-44.29	-13.00	H
12952.00	-53.75	2.50	13.30	-42.95	-13.00	H
14802.50	-47.58	2.70	12.40	-37.88	-13.00	H

LTE Band 25, 1.4MHz, 64QAM, Channel 26365

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2889.60	-48.18	1.00	11.50	-37.68	-13.00	V
5646.00	-54.06	1.30	13.10	-42.26	-13.00	V
7528.50	-45.38	1.80	11.30	-35.88	-13.00	V
9410.50	-51.46	2.10	11.20	-42.36	-13.00	V
13175.00	-51.90	2.40	13.30	-41.00	-13.00	H
15057.00	-49.96	2.40	12.40	-39.96	-13.00	H

LTE Band 25, 1.4MHz, 64QAM, Channel 26683

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2924.00	-47.48	1.00	11.50	-36.98	-13.00	H
5741.50	-47.54	1.50	13.10	-35.94	-13.00	H
7655.50	-44.08	1.80	11.30	-34.58	-13.00	V
9569.00	-52.17	2.10	11.20	-43.07	-13.00	H
13397.00	-47.68	2.30	12.40	-37.58	-13.00	H
15311.00	-42.12	2.70	12.40	-32.42	-13.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26783

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2996.53	-46.51	1.00	11.50	-38.16	-13.00	H
3291.00	-61.45	1.10	12.20	-52.50	-13.00	V
4114.50	-59.69	1.20	12.40	-50.64	-13.00	H
4937.00	-62.21	1.30	12.50	-53.16	-13.00	V
7405.50	-58.73	1.90	11.30	-51.48	-13.00	V
9223.50	-61.01	2.00	11.20	-53.96	-13.00	V

LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26740

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2957.07	-47.44	1.00	11.50	-39.09	-13.00	H
3274.50	-60.38	1.10	12.20	-51.43	-13.00	V
4092.50	-60.30	1.20	12.40	-51.25	-13.00	H
5730.00	-63.16	1.50	13.10	-53.71	-13.00	H
7539.00	-60.09	1.80	11.30	-52.74	-13.00	V
9331.00	-60.07	2.10	11.20	-53.12	-13.00	H

LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26697

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2950.67	-46.76	1.00	11.50	-38.41	-13.00	H
4071.00	-62.98	1.30	12.40	-54.03	-13.00	V
5739.50	-63.82	1.50	13.10	-54.37	-13.00	H
7327.50	-61.15	1.70	11.30	-53.70	-13.00	V
7964.50	-59.88	1.90	11.30	-52.63	-13.00	V
9382.00	-59.79	2.10	11.20	-52.84	-13.00	H

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LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26783

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2996.80	-47.16	1.00	11.50	-38.81	-13.00	H
6404.50	-62.18	1.60	12.40	-53.53	-13.00	V
6760.00	-62.64	1.60	12.00	-54.39	-13.00	V
7291.00	-62.03	1.90	12.00	-54.08	-13.00	V
8367.50	-61.84	1.80	12.00	-53.79	-13.00	V
9609.50	-59.97	2.20	11.20	-53.12	-13.00	V

LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26740

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2920.27	-47.53	1.00	11.50	-39.18	-13.00	V
6090.50	-63.62	1.60	13.10	-54.27	-13.00	H
6509.50	-62.75	1.70	12.40	-54.20	-13.00	H
7269.50	-61.78	1.90	12.00	-53.83	-13.00	V
8378.00	-61.72	1.80	12.00	-53.67	-13.00	V
9372.00	-59.77	2.10	11.20	-52.82	-13.00	V

LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26697

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2925.07	-46.72	1.00	11.50	-38.37	-13.00	H
6525.50	-62.38	1.70	12.40	-53.83	-13.00	H
7281.50	-61.64	1.90	12.00	-53.69	-13.00	H
8013.00	-61.01	2.00	11.30	-53.86	-13.00	H
8783.00	-61.40	1.90	11.60	-53.85	-13.00	V
9281.00	-60.39	2.00	11.20	-53.34	-13.00	V

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LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26783

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2530.67	-46.28	0.90	10.70	-38.63	-13.00	H
3291.50	-62.01	1.10	12.20	-53.06	-13.00	H
4114.00	-61.28	1.20	12.40	-52.23	-13.00	H
4937.00	-63.01	1.30	12.50	-53.96	-13.00	V
7406.00	-59.63	1.90	11.30	-52.38	-13.00	V
9255.50	-59.94	2.00	11.20	-52.89	-13.00	V

LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26740

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2976.53	-47.27	1.00	11.50	-38.92	-13.00	V
3274.50	-60.71	1.10	12.20	-51.76	-13.00	V
4092.50	-59.83	1.30	12.40	-50.88	-13.00	V
7259.50	-61.04	1.90	12.00	-53.09	-13.00	V
7925.00	-60.58	1.90	11.30	-53.33	-13.00	H
9004.00	-59.97	2.20	11.60	-52.72	-13.00	H

LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26697

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit （dBm）	Polarization
2956.80	-46.75	1.00	11.50	-38.40	-13.00	H
3297.00	-60.79	1.10	12.20	-51.84	-13.00	V
4121.00	-62.01	1.20	12.40	-52.96	-13.00	H
5299.50	-64.09	1.60	13.10	-54.74	-13.00	H
7418.50	-58.45	1.90	11.30	-51.20	-13.00	V
9385.50	-59.91	2.10	11.20	-52.96	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 4.92dB(30MHz-3GHz)/4.88dB(3GHz-18GHz)/5.66dB(18GHz-40GHz), k = 2

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LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 27033

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2905.07	-46.49	1.00	11.50	-38.14	-13.00	V
3391.50	-62.40	1.10	12.20	-53.45	-13.00	H
4239.50	-62.81	1.20	12.40	-53.76	-13.00	V
5934.50	-59.26	1.50	13.10	-49.81	-13.00	H
7949.50	-60.70	1.90	11.30	-53.45	-13.00	H
9326.00	-59.11	2.10	11.20	-52.16	-13.00	H

LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26915

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2942.67	-47.03	1.00	11.50	-38.68	-13.00	H
3343.50	-62.43	1.10	12.20	-53.48	-13.00	V
4180.00	-61.81	1.20	12.40	-52.76	-13.00	V
5852.00	-61.10	1.50	13.10	-51.65	-13.00	H
8354.00	-61.15	1.80	12.00	-53.10	-13.00	V
9214.50	-60.06	2.00	11.20	-53.01	-13.00	V

LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26797

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2930.40	-47.16	1.00	11.50	-38.81	-13.00	H
3296.50	-60.52	1.10	12.20	-51.57	-13.00	V
3665.50	-63.46	1.20	12.20	-54.61	-13.00	V
4121.00	-61.84	1.20	12.40	-52.79	-13.00	H
7419.00	-60.40	1.90	11.30	-53.15	-13.00	V
9197.50	-59.78	2.10	11.20	-52.83	-13.00	V

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LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 27033

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2999.20	-46.58	1.00	11.50	-38.23	-13.00	H
3391.50	-62.38	1.20	12.20	-53.53	-13.00	H
4239.00	-63.14	1.20	12.40	-54.09	-13.00	V
5087.00	-62.52	1.20	12.50	-53.37	-13.00	V
5935.00	-58.91	1.50	13.10	-49.46	-13.00	H
9326.50	-58.70	2.10	11.20	-51.75	-13.00	V

LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26915

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2969.07	-47.57	1.00	11.50	-39.22	-13.00	H
3343.50	-60.86	1.10	12.20	-51.91	-13.00	V
4180.00	-61.99	1.20	12.40	-52.94	-13.00	V
5852.50	-59.44	1.50	13.10	-49.99	-13.00	H
8038.00	-60.95	1.80	11.30	-53.60	-13.00	V
9196.50	-58.67	2.10	11.20	-51.72	-13.00	V

LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26797

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2979.20	-47.07	1.00	11.50	-38.72	-13.00	V
5183.50	-63.02	1.60	12.50	-54.27	-13.00	V
6668.00	-63.33	1.70	12.40	-54.78	-13.00	H
7339.00	-62.46	1.70	11.30	-55.01	-13.00	V
8083.00	-60.86	1.80	11.30	-53.51	-13.00	V
9296.50	-61.04	2.00	11.20	-53.99	-13.00	V

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LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 27033

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2928.53	-47.25	1.00	11.50	-38.90	-13.00	H
3392.00	-60.23	1.20	12.20	-51.38	-13.00	V
4240.00	-64.25	1.20	12.40	-55.20	-13.00	H
5934.50	-60.04	1.50	13.10	-50.59	-13.00	H
7224.00	-60.99	1.90	12.00	-53.04	-13.00	V
9392.50	-59.99	2.10	11.20	-53.04	-13.00	V

LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26915

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2948.80	-46.93	1.00	11.50	-38.58	-13.00	H
3344.00	-62.12	1.10	12.20	-53.17	-13.00	H
4180.50	-61.86	1.20	12.40	-52.81	-13.00	H
5852.50	-60.84	1.50	13.10	-51.39	-13.00	H
8080.50	-61.06	1.80	11.30	-53.71	-13.00	V
9557.00	-58.88	2.10	11.20	-51.93	-13.00	V

LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26797

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2950.40	-47.27	1.00	11.50	-38.92	-13.00	H
3297.00	-60.79	1.10	12.20	-51.84	-13.00	V
4121.00	-62.01	1.20	12.40	-52.96	-13.00	H
5299.50	-64.09	1.60	13.10	-54.74	-13.00	H
7418.50	-58.45	1.90	11.30	-51.20	-13.00	V
9385.50	-59.91	2.10	11.20	-52.96	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2839.47	-57.02	1.00	11.50	-46.52	-40.00	V
6916.00	-63.54	1.80	12.00	-53.34	-40.00	H
9221.50	-58.49	2.00	11.20	-49.29	-40.00	V
11527.00	-56.68	2.60	11.00	-48.28	-40.00	V
13832.00	-61.95	2.20	11.90	-52.25	-40.00	V
16137.50	-70.66	2.60	17.40	-55.86	-40.00	V

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2934.93	-56.70	1.00	11.50	-46.20	-40.00	H
6923.50	-63.35	1.80	12.00	-53.15	-40.00	H
9231.50	-57.80	2.60	11.00	-49.40	-40.00	V
11539.50	-57.16	2.20	11.90	-47.46	-40.00	V
13847.00	-67.58	2.60	17.40	-52.78	-40.00	V
16155.00	-64.87	2.00	11.20	-55.67	-40.00	V

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2961.60	-56.56	1.00	11.50	-46.06	-40.00	H
4620.50	-65.32	1.80	12.00	-55.12	-40.00	V
6931.00	-61.87	2.60	11.00	-53.47	-40.00	H
9241.50	-59.53	2.20	11.90	-49.83	-40.00	V
11552.00	-56.87	2.00	11.20	-47.67	-40.00	V
13862.00	-64.83	1.30	12.50	-53.63	-40.00	V

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LTE Band 30, 5MHz, 16QAM, Channel 27685

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2955.47	-56.55	1.00	11.50	-46.05	-40.00	H
6916.00	-63.62	1.80	12.00	-53.42	-40.00	H
9221.50	-59.18	2.00	11.20	-49.98	-40.00	V
11527.00	-57.54	2.60	11.00	-49.14	-40.00	V
13832.00	-62.98	2.20	11.90	-53.28	-40.00	V
16137.50	-71.11	2.60	17.40	-56.31	-40.00	V

LTE Band 30, 5MHz, 16QAM, Channel 27710

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2913.33	-56.61	1.00	11.50	-46.11	-40.00	H
6923.50	-63.06	1.80	12.00	-52.86	-40.00	H
9231.50	-58.40	2.00	11.20	-49.20	-40.00	V
11539.50	-56.73	2.60	11.00	-48.33	-40.00	V
13847.00	-67.81	2.60	17.40	-53.01	-40.00	V
16155.00	-70.83	2.60	17.40	-56.03	-40.00	V

LTE Band 30, 5MHz, 16QAM, Channel 27735

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2910.13	-56.52	1.00	11.50	-46.02	-40.00	H
4620.50	-66.99	1.30	12.50	-55.79	-40.00	V
6931.00	-63.76	1.80	12.00	-53.56	-40.00	H
9241.50	-59.32	2.00	11.20	-50.12	-40.00	V
11552.00	-55.64	2.60	11.00	-47.24	-40.00	V
13862.00	-63.07	2.20	11.90	-53.37	-40.00	V

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LTE Band 30, 5MHz, 64QAM, Channel 27685

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2918.67	-56.53	1.00	11.50	-46.03	-40.00	H
6916.00	-66.06	1.80	12.00	-55.86	-40.00	H
9221.50	-60.41	2.00	11.20	-51.21	-40.00	V
11527.00	-58.73	2.60	11.00	-50.33	-40.00	V
13832.00	-63.69	2.20	11.90	-53.99	-40.00	V
17103.50	-68.04	2.90	14.50	-56.44	-40.00	V

LTE Band 30, 5MHz, 64QAM, Channel 27710

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2898.40	-56.54	1.00	11.50	-46.04	-40.00	V
6923.50	-65.02	1.80	12.00	-54.82	-40.00	H
9231.50	-60.53	2.00	11.20	-51.33	-40.00	V
11539.50	-57.89	2.60	11.00	-49.49	-40.00	V
13847.00	-63.83	2.20	11.90	-54.13	-40.00	V
17095.00	-68.10	2.90	14.50	-56.50	-40.00	V

LTE Band 30, 5MHz, 64QAM, Channel 27735

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2903.73	-56.53	1.00	11.50	-46.03	-40.00	H
6931.00	-64.82	1.80	12.00	-54.62	-40.00	H
9241.50	-60.74	2.00	11.20	-51.54	-40.00	V
11552.00	-58.19	2.60	11.00	-49.79	-40.00	V
13862.00	-64.39	2.20	11.90	-54.69	-40.00	V
17110.00	-68.12	2.90	14.50	-56.52	-40.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 38, 5MHz, QPSK, Channel 37775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2958.13	-56.57	1.00	11.50	-46.07	-25.00	H
7711.00	-64.14	1.80	11.30	-54.64	-25.00	H
10281.50	-66.48	2.10	10.80	-57.78	-25.00	V
12077.50	-70.32	2.70	12.60	-60.42	-25.00	V
14840.50	-68.48	2.70	12.40	-58.78	-25.00	V
17104.50	-68.08	2.90	14.50	-56.48	-25.00	V

LTE Band 38, 5MHz, QPSK, Channel 38000

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2943.73	-56.74	1.00	11.50	-46.24	-25.00	H
5185.50	-73.47	1.60	12.50	-62.57	-25.00	V
7778.00	-66.78	1.80	11.30	-57.28	-25.00	H
10371.50	-68.70	2.30	10.80	-60.20	-25.00	H
12964.50	-65.12	2.50	13.30	-54.32	-25.00	V
17103.00	-68.13	2.90	14.50	-56.53	-25.00	V

LTE Band 38, 5MHz, QPSK, Channel 38225

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2949.33	-56.68	1.00	11.50	-46.18	-25.00	H
5230.50	-69.27	1.80	12.50	-58.57	-25.00	H
10461.50	-67.58	2.30	10.80	-59.08	-25.00	V
11996.50	-69.69	2.60	12.60	-59.69	-25.00	V
13077.00	-68.94	2.30	13.30	-57.94	-25.00	V
17084.00	-67.59	2.90	14.50	-55.99	-25.00	V

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LTE Band 38, 5MHz, 16QAM, Channel 37775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2978.40	-57.02	1.00	11.50	-46.52	-25.00	V
7711.50	-65.56	1.80	11.30	-56.06	-25.00	H
10281.50	-66.48	2.10	10.80	-57.78	-25.00	V
12090.00	-69.90	2.70	12.60	-60.00	-25.00	V
14506.00	-66.88	2.60	11.20	-58.28	-25.00	V
17099.00	-67.57	2.90	14.50	-55.97	-25.00	H

LTE Band 38, 5MHz, 16QAM, Channel 38000

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2966.67	-56.76	1.00	11.50	-46.26	-25.00	H
7778.50	-65.42	1.80	11.30	-55.92	-25.00	H
10371.50	-68.94	2.30	10.80	-60.44	-25.00	H
12106.00	-69.85	2.60	12.60	-59.85	-25.00	V
12964.50	-65.80	2.50	13.30	-55.00	-25.00	V
17099.00	-67.38	2.90	14.50	-55.78	-25.00	V

LTE Band 38, 5MHz, 16QAM, Channel 38225

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2946.40	-56.74	1.00	11.50	-46.24	-25.00	H
5230.50	-61.24	1.80	12.50	-61.24	-25.00	V
10461.50	-60.26	2.30	10.80	-60.26	-25.00	H
12085.00	-59.95	2.70	12.60	-59.95	-25.00	V
13076.50	-58.05	2.30	13.30	-58.05	-25.00	V
17096.50	-56.00	2.90	14.50	-56.00	-25.00	V

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LTE Band 38, 5MHz, 64QAM, Channel 37775

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2963.73	-56.73	1.00	11.50	-46.23	-25.00	H
5140.50	-73.65	1.60	12.50	-62.75	-25.00	V
7711.00	-67.03	1.80	11.30	-57.53	-25.00	H
10281.50	-67.97	2.10	10.80	-59.27	-25.00	H
12852.00	-68.75	2.50	13.30	-57.95	-25.00	V
17051.00	-67.60	2.90	14.50	-56.00	-25.00	V

LTE Band 38, 5MHz, 64QAM, Channel 38000

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2975.47	-56.97	1.00	11.50	-46.47	-25.00	H
7778.50	-70.80	1.80	11.30	-61.30	-25.00	H
10371.00	-68.95	2.30	10.80	-60.45	-25.00	V
12504.00	-71.24	2.40	13.80	-59.84	-25.00	V
14827.00	-68.07	2.70	12.40	-58.37	-25.00	V
17083.50	-67.69	2.90	14.50	-56.09	-25.00	V

LTE Band 38, 5MHz, 64QAM, Channel 38225

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2963.73	-56.73	1.00	11.50	-46.23	-25.00	H
3720.50	-77.13	1.10	12.20	-66.03	-25.00	V
5230.50	-70.85	1.80	12.50	-60.15	-25.00	H
6517.50	-74.58	1.70	12.40	-63.88	-25.00	H
7846.00	-63.83	1.70	11.30	-54.23	-25.00	H
10462.00	-67.98	2.30	10.80	-59.48	-25.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 41, 5MHz, QPSK, Channel 40165

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2874.13	-48.06	1.00	11.50	-37.56	-25.00	V
4369.50	-65.63	1.30	12.50	-54.43	-25.00	V
7489.00	-58.70	1.80	11.30	-49.20	-25.00	V
9985.50	-54.22	2.20	11.30	-45.12	-25.00	V
12481.50	-59.16	2.60	13.80	-47.96	-25.00	V
17475.00	-52.36	2.90	12.80	-42.46	-25.00	V

LTE Band 41, 5MHz, QPSK, Channel 40690

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2904.00	-47.58	1.00	11.50	-37.08	-25.00	V
3342.00	-66.89	1.10	12.20	-55.79	-25.00	H
4047.00	-65.90	1.30	12.40	-54.80	-25.00	V
5693.00	-65.67	1.30	13.10	-53.87	-25.00	H
7772.50	-60.14	1.80	11.30	-50.64	-25.00	V
10200.50	-57.93	2.10	10.80	-49.23	-25.00	V

LTE Band 41, 5MHz, QPSK, Channel 41215

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2941.60	-47.44	1.00	11.50	-36.94	-25.00	H
3821.50	-64.47	1.20	12.40	-53.27	-25.00	H
5370.50	-62.45	1.20	13.10	-50.55	-25.00	V
8056.50	-59.61	1.80	11.30	-50.11	-25.00	H
10225.00	-58.32	2.10	10.80	-49.62	-25.00	V
12403.00	-59.88	2.60	13.80	-48.68	-25.00	H

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LTE Band 41, 5MHz, 16QAM, Channel 40165

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2900.00	-48.14	1.00	11.50	-37.64	-25.00	V
3659.00	-65.51	1.20	12.20	-54.51	-25.00	V
5692.50	-65.32	1.30	13.10	-53.52	-25.00	V
7489.00	-57.35	1.90	11.30	-47.95	-25.00	V
9985.50	-53.10	2.20	11.30	-44.00	-25.00	V
12481.50	-59.36	2.40	13.80	-47.96	-25.00	V

LTE Band 41, 5MHz, 16QAM, Channel 40690

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2833.07	-48.25	1.00	11.50	-37.75	-25.00	V
4353.00	-64.55	1.30	12.50	-53.35	-25.00	V
5949.50	-65.37	1.50	13.10	-53.77	-25.00	H
7772.50	-59.68	1.80	11.30	-50.18	-25.00	V
10363.50	-57.95	2.30	10.80	-49.45	-25.00	V
12954.00	-57.71	2.50	13.30	-46.91	-25.00	V

LTE Band 41, 5MHz, 16QAM, Channel 41215

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2921.33	-47.66	1.00	11.50	-37.16	-25.00	V
3706.00	-65.88	1.10	12.20	-54.78	-25.00	H
5371.00	-60.30	1.20	13.10	-48.40	-25.00	V
8056.00	-54.08	1.80	11.30	-44.58	-25.00	H
9862.50	-61.20	2.20	11.30	-52.10	-25.00	V
12550.50	-59.48	2.40	13.80	-48.08	-25.00	H

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LTE Band 41, 5MHz, 64QAM, Channel 40165

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2898.40	-47.76	1.00	11.50	-37.26	-25.00	H
3451.00	-65.70	1.10	12.20	-54.60	-25.00	V
4964.50	-64.12	1.30	12.50	-52.92	-25.00	H
7489.00	-56.98	1.90	11.30	-47.58	-25.00	H
9986.00	-57.96	2.20	11.30	-48.86	-25.00	H
12135.00	-58.68	2.60	12.60	-48.68	-25.00	V

LTE Band 41, 5MHz, 64QAM, Channel 40690

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2900.53	-47.56	1.00	11.50	-37.06	-25.00	V
3773.50	-66.19	1.20	12.40	-54.99	-25.00	V
5512.00	-65.65	1.40	13.10	-53.95	-25.00	H
7772.50	-56.38	1.80	11.30	-46.88	-25.00	H
10426.00	-57.48	2.30	10.80	-48.98	-25.00	V
11981.50	-58.63	2.60	12.60	-48.63	-25.00	H

LTE Band 41, 5MHz, 64QAM, Channel 41215

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2952.00	-46.72	1.00	11.50	-36.22	-25.00	H
3900.50	-66.17	1.30	12.40	-55.07	-25.00	V
5370.50	-62.24	1.20	13.10	-50.34	-25.00	V
8056.00	-57.64	1.80	11.30	-48.14	-25.00	H
10173.00	-58.58	2.20	11.30	-49.48	-25.00	H
11853.00	-59.03	2.50	12.60	-48.93	-25.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2904.80	-47.12	1.00	11.50	-36.62	-13.00	H
3420.50	-57.56	1.10	12.20	-46.46	-13.00	V
5130.50	-56.47	1.30	12.50	-45.27	-13.00	H
6840.50	-49.02	1.80	12.00	-38.82	-13.00	H
11971.00	-54.85	2.60	12.60	-44.85	-13.00	V
13682.00	-51.11	2.50	12.40	-41.21	-13.00	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2786.40	-47.38	1.00	11.50	-36.88	-13.00	H
5233.50	-59.71	1.60	13.10	-48.21	-13.00	H
6978.00	-47.31	1.80	12.00	-37.11	-13.00	H
11734.50	-27.39	2.50	12.60	-17.29	-13.00	H
12211.50	-53.77	2.60	13.80	-42.57	-13.00	H
13956.50	-46.46	2.50	11.90	-37.06	-13.00	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2553.07	-47.50	1.00	10.70	-37.80	-13.00	V
3557.50	-60.57	1.10	12.20	-49.47	-13.00	V
5336.50	-54.59	1.30	13.10	-42.79	-13.00	H
7115.00	-42.80	1.90	12.00	-32.70	-13.00	H
12451.50	-54.50	2.60	13.80	-43.30	-13.00	H
14231.50	-45.76	2.60	11.90	-36.46	-13.00	V

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LTE Band 66, 1.4MHz, 16QAM, Channel 131979

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2912.53	-48.22	1.00	11.50	-37.72	-13.00	V
3420.00	-58.71	1.10	12.20	-47.61	-13.00	V
5130.50	-57.33	1.30	12.50	-46.13	-13.00	H
6840.50	-48.35	1.80	12.00	-38.15	-13.00	H
11972.00	-51.63	2.60	12.60	-41.63	-13.00	H
13682.00	-49.87	2.50	12.40	-39.97	-13.00	V

LTE Band 66, 1.4MHz, 16QAM, Channel 132322

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2902.67	-48.20	1.00	11.50	-37.70	-13.00	H
3489.00	-61.30	1.10	12.20	-50.20	-13.00	V
6978.00	-46.89	1.80	12.00	-36.69	-13.00	H
12212.00	-53.10	2.60	13.80	-41.90	-13.00	H
13956.00	-46.29	2.50	11.90	-36.89	-13.00	V
17446.00	-48.72	2.90	12.80	-38.82	-13.00	V

LTE Band 66, 1.4MHz, 16QAM, Channel 132665

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2897.07	-47.31	1.00	11.50	-36.81	-13.00	V
3557.50	-60.61	1.10	12.20	-49.51	-13.00	V
5336.50	-55.92	1.30	13.10	-44.12	-13.00	H
7115.00	-42.41	1.90	12.00	-32.31	-13.00	H
12452.00	-54.15	2.60	13.80	-42.95	-13.00	H
14231.00	-45.80	2.60	11.90	-36.50	-13.00	V

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LTE Band 66, 1.4MHz, 64QAM, Channel 131979

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2893.87	-47.68	1.00	11.50	-37.18	-13.00	V
3420.00	-58.84	1.10	12.20	-47.74	-13.00	H
5131.00	-57.16	1.30	12.50	-45.96	-13.00	V
6841.00	-49.18	1.80	12.00	-38.98	-13.00	H
11971.50	-51.91	2.60	12.60	-41.91	-13.00	H
13682.00	-52.26	2.50	12.40	-42.36	-13.00	V

LTE Band 66, 1.4MHz, 64QAM, Channel 132322

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2914.67	-47.95	1.00	11.50	-37.45	-13.00	V
5233.50	-60.01	1.80	12.50	-49.31	-13.00	H
6978.00	-47.07	1.80	12.00	-36.87	-13.00	H
12211.50	-54.56	2.60	13.80	-43.36	-13.00	H
13956.50	-46.72	2.50	11.90	-37.32	-13.00	V
17446.00	-48.95	2.90	12.80	-39.05	-13.00	V

LTE Band 66, 1.4MHz, 64QAM, Channel 132665

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2858.13	-47.74	1.00	11.50	-37.24	-13.00	V
3557.50	-59.94	1.10	12.20	-48.84	-13.00	V
5336.50	-55.11	1.20	13.10	-43.21	-13.00	H
7115.50	-42.83	1.80	12.00	-32.63	-13.00	H
14231.00	-45.78	2.60	11.90	-36.48	-13.00	V
17788.50	-47.86	3.60	12.80	-38.66	-13.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band CA_5B, 10MHz+5MHz, QPSK, CH20450+CH20522

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2784.50	-50.64	1.00	11.50	-42.29	-13.00	H
2884.00	-50.60	1.00	11.50	-42.25	-13.00	V
2916.00	-51.01	1.00	11.50	-42.66	-13.00	V
2994.50	-50.18	1.00	11.50	-41.83	-13.00	H
8395.50	-50.93	1.80	12.00	-42.88	-13.00	H
9419.00	-49.70	2.10	11.20	-42.75	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, QPSK, CH20500+CH20572

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2762.00	-51.14	1.00	11.50	-42.79	-13.00	H
2878.00	-50.77	1.00	11.50	-42.42	-13.00	H
2935.00	-50.63	1.00	11.50	-42.28	-13.00	H
2980.50	-50.34	1.00	11.50	-41.99	-13.00	H
8646.00	-54.89	2.00	12.00	-47.04	-13.00	H
9424.50	-53.51	2.10	11.20	-46.56	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, QPSK, CH20550+CH20622

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2774.50	-50.94	1.00	11.50	-42.59	-13.00	H
2868.50	-50.39	1.00	11.50	-42.04	-13.00	H
2901.50	-50.78	1.00	11.50	-42.43	-13.00	H
2997.50	-50.43	1.00	11.50	-42.08	-13.00	V
8350.00	-55.16	1.80	12.00	-47.11	-13.00	H
9428.00	-53.69	2.10	11.20	-46.74	-13.00	H

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LTE Band CA_5B, 10MHz+5MHz, 16QAM, CH20450+CH20522

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2758.50	-51.10	1.00	11.50	-42.75	-13.00	H
2821.50	-50.86	1.00	11.50	-42.51	-13.00	V
2942.00	-50.40	1.00	11.50	-42.05	-13.00	H
2992.50	-50.76	1.00	11.50	-42.41	-13.00	H
7205.50	-55.83	1.90	12.00	-47.88	-13.00	H
9444.50	-52.71	2.10	11.20	-45.76	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, 16QAM, CH20500+CH20572

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2780.50	-50.97	1.00	11.50	-42.62	-13.00	H
2883.00	-51.20	1.00	11.50	-42.85	-13.00	H
2928.50	-50.84	1.00	11.50	-42.49	-13.00	H
2999.50	-50.63	1.00	11.50	-42.28	-13.00	V
9099.50	-52.70	2.10	11.60	-45.35	-13.00	H
9422.00	-52.91	2.10	11.20	-45.96	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, 16QAM, CH20550+CH20622

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2767.50	-50.51	1.00	11.50	-42.16	-13.00	H
2876.00	-50.74	1.00	11.50	-42.39	-13.00	V
2915.50	-50.73	1.00	11.50	-42.38	-13.00	V
2995.50	-50.21	1.00	11.50	-41.86	-13.00	H
7308.00	-55.14	1.70	11.30	-47.69	-13.00	H
9429.50	-52.82	2.10	11.20	-45.87	-13.00	H

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LTE Band CA_5B, 10MHz+5MHz, 64QAM, CH20450+CH20522

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2782.50	-50.81	1.00	11.50	-42.46	-13.00	H
2829.50	-50.16	1.00	11.50	-41.81	-13.00	H
2937.50	-50.64	1.00	11.50	-42.29	-13.00	H
2998.50	-50.50	1.00	11.50	-42.15	-13.00	H
7125.00	-55.52	1.90	12.00	-47.57	-13.00	H
9418.50	-52.74	2.10	11.20	-45.79	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, 64QAM, CH20500+CH20572

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2814.00	-50.87	1.00	11.50	-42.52	-13.00	H
2831.50	-51.23	1.00	11.50	-42.88	-13.00	H
2915.50	-50.86	1.00	11.50	-42.51	-13.00	H
2974.50	-50.84	1.00	11.50	-42.49	-13.00	H
9299.50	-52.89	2.00	11.20	-45.84	-13.00	H
9421.00	-52.31	2.10	11.20	-45.36	-13.00	H

LTE Band CA_5B, 10MHz+5MHz, 64QAM, CH20550+CH20622

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2785.00	-50.62	1.00	11.50	-42.27	-13.00	H
2851.00	-51.05	1.00	11.50	-42.70	-13.00	H
2916.50	-50.51	1.00	11.50	-42.16	-13.00	H
2998.00	-49.99	1.00	11.50	-41.64	-13.00	V
7156.50	-56.03	1.80	12.00	-47.98	-13.00	H
9421.50	-52.54	2.10	11.20	-45.59	-13.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band CA_5B, 10MHz+10MHz, QPSK, CH20450+CH20549

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2931.25	-52.20	1.00	11.50	-43.85	-13.00	H
6314.00	-56.47	1.60	12.40	-47.82	-13.00	V
7211.27	-55.26	1.90	12.00	-47.31	-13.00	H
7958.62	-52.97	1.90	11.30	-45.72	-13.00	H
8798.38	-52.63	1.90	11.60	-45.08	-13.00	V
9991.58	-51.75	2.20	11.30	-44.80	-13.00	V

LTE Band CA_5B, 10MHz+10MHz, QPSK, CH20476+CH20575

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2928.00	-52.51	1.00	11.50	-44.16	-13.00	H
7217.85	-55.49	1.90	12.00	-47.54	-13.00	V
7601.85	-54.24	1.80	11.30	-46.89	-13.00	H
8444.27	-54.15	1.80	12.00	-46.10	-13.00	V
9117.19	-53.44	2.10	11.60	-46.09	-13.00	V
9924.65	-52.34	2.20	11.30	-45.39	-13.00	V

LTE Band CA_5B, 10MHz+10MHz, QPSK, CH20501+CH20600

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2933.25	-52.44	1.00	11.50	-44.09	-13.00	H
6406.00	-57.44	1.60	12.40	-48.79	-13.00	V
7239.88	-54.95	1.90	12.00	-47.00	-13.00	H
8177.04	-54.39	2.20	11.30	-47.44	-13.00	V
8818.23	-54.35	1.90	11.60	-46.80	-13.00	V
9907.46	-52.96	2.20	11.30	-46.01	-13.00	H

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LTE Band CA_5B, 10MHz+10MHz, 16QAM, CH20450+CH20549

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2933.75	-52.40	1.00	11.50	-44.05	-13.00	H
6877.50	-56.04	1.80	12.00	-47.99	-13.00	H
7594.92	-54.21	1.80	11.30	-46.86	-13.00	H
8301.54	-55.44	1.80	12.00	-47.39	-13.00	H
9061.81	-54.16	2.20	11.60	-46.91	-13.00	V
9902.50	-51.70	2.20	11.30	-44.75	-13.00	V

LTE Band CA_5B, 10MHz+10MHz, 16QAM, CH20476+CH20575

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2927.25	-52.12	1.00	11.50	-43.77	-13.00	H
7216.00	-55.08	1.90	12.00	-47.13	-13.00	H
7585.23	-53.43	1.80	11.30	-46.08	-13.00	H
8780.38	-53.74	1.90	11.60	-46.19	-13.00	H
9063.19	-53.99	2.20	11.60	-46.74	-13.00	V
9852.19	-52.93	2.20	11.30	-45.98	-13.00	H

LTE Band CA_5B, 10MHz+10MHz, 16QAM, CH20501+CH20600

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2925.00	-52.08	1.00	11.50	-43.73	-13.00	H
6587.00	-55.90	1.70	12.40	-47.35	-13.00	H
7382.04	-55.35	1.90	11.30	-48.10	-13.00	H
7973.96	-53.27	2.00	11.30	-46.12	-13.00	H
8810.62	-53.78	1.90	11.60	-46.23	-13.00	V
9910.58	-52.42	2.20	11.30	-45.47	-13.00	H

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LTE Band CA_5B, 10MHz+10MHz, 64QAM, CH20450+CH20549

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2935.50	-52.19	1.00	11.50	-43.84	-13.00	H
5834.75	-58.18	1.40	13.10	-48.63	-13.00	V
6816.00	-54.22	1.80	12.00	-46.17	-13.00	H
7956.42	-53.36	1.90	11.30	-46.11	-13.00	H
8767.81	-54.24	1.90	11.60	-46.69	-13.00	V
9939.88	-52.38	2.20	11.30	-45.43	-13.00	H

LTE Band CA_5B, 10MHz+10MHz, 64QAM, CH20476+CH20575

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2932.00	-51.05	1.00	11.50	-42.70	-13.00	H
6409.00	-56.93	1.60	12.40	-48.28	-13.00	V
7022.27	-55.38	1.80	12.00	-47.33	-13.00	H
7844.73	-53.49	1.70	11.30	-46.04	-13.00	V
8955.88	-54.19	2.00	11.60	-46.74	-13.00	H
9931.00	-52.20	2.20	11.30	-45.25	-13.00	H

LTE Band CA_5B, 10MHz+10MHz, 64QAM, CH20501+CH20600

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit(dBm)	Polarization
2936.50	-52.35	1.00	11.50	-44.00	-13.00	H
6852.75	-55.97	1.80	12.00	-47.92	-13.00	H
7572.08	-53.29	1.80	11.30	-45.94	-13.00	V
7978.81	-52.77	2.00	11.30	-45.62	-13.00	H
8756.38	-53.63	1.90	11.60	-46.08	-13.00	V
9893.50	-52.80	2.20	11.30	-45.85	-13.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band CA_41C, 20MHz+5MHz, QPSK, CH39750+CH39867

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2942.75	-52.59	1.00	11.50	-42.09	-25.00	H
10279.69	-50.70	2.10	10.80	-42.00	-25.00	V
11632.69	-50.84	2.60	11.00	-42.44	-25.00	H
13379.15	-51.21	2.50	12.40	-41.31	-25.00	V
15633.73	-52.19	2.70	15.60	-39.29	-25.00	H
17035.81	-50.80	2.90	14.50	-39.20	-25.00	V

LTE Band CA_41C, 20MHz+5MHz, QPSK, CH40595+CH40712

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2930.75	-51.09	1.00	11.50	-40.59	-25.00	H
7959.96	-53.44	1.90	11.30	-44.04	-25.00	H
11204.12	-50.60	2.60	10.50	-42.70	-25.00	V
13941.42	-50.64	2.50	11.90	-41.24	-25.00	H
15651.08	-51.36	2.70	15.60	-38.46	-25.00	H
16665.62	-52.06	2.90	16.50	-38.46	-25.00	V

LTE Band CA_41C, 20MHz+5MHz, QPSK, CH41440+CH41557

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2920.25	-53.14	1.00	11.50	-42.64	-25.00	H
9322.69	-53.22	2.00	11.20	-44.02	-25.00	V
12070.58	-52.28	2.70	12.60	-42.38	-25.00	V
13873.31	-50.36	2.20	11.90	-40.66	-25.00	H
15651.50	-51.00	2.70	15.60	-38.10	-25.00	V
17494.85	-49.45	3.30	12.80	-39.95	-25.00	V

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LTE Band CA_41C, 20MHz+5MHz, 16QAM, CH39750+CH39867

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2927.75	-52.36	1.00	11.50	-41.86	-25.00	H
8438.04	-53.54	2.10	12.00	-43.64	-25.00	V
13079.19	-52.63	2.30	13.30	-41.63	-25.00	V
15644.31	-51.46	2.70	15.60	-38.56	-25.00	V
17491.46	-49.17	3.30	12.80	-39.67	-25.00	V
17895.92	-42.93	3.20	6.20	-39.93	-25.00	H

LTE Band CA_41C, 20MHz+5MHz, 16QAM, CH40595+CH40712

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2931.50	-52.83	1.00	11.50	-42.33	-25.00	H
7992.96	-53.76	2.00	11.30	-44.46	-25.00	H
12786.00	-51.63	2.70	13.30	-41.03	-25.00	V
15650.65	-51.43	2.70	15.60	-38.53	-25.00	V
16690.15	-50.15	2.90	14.50	-38.55	-25.00	V
17484.69	-49.46	3.30	12.80	-39.96	-25.00	V

LTE Band CA_41C, 20MHz+5MHz, 16QAM, CH41440+CH41557

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2930.50	-52.36	1.00	11.50	-41.86	-25.00	H
7596.12	-53.46	1.80	11.30	-43.96	-25.00	H
13880.08	-49.54	2.20	11.90	-39.84	-25.00	V
15649.81	-51.47	2.70	15.60	-38.57	-25.00	V
17069.23	-48.91	2.90	14.50	-37.31	-25.00	V
17494.85	-49.10	3.30	12.80	-39.60	-25.00	V

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LTE Band CA_41C, 20MHz+5MHz, 64QAM, CH39750+CH39867

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2923.75	-53.39	1.00	11.50	-42.89	-25.00	H
12417.50	-52.51	2.60	13.80	-41.31	-25.00	V
14660.23	-49.12	2.50	11.20	-40.42	-25.00	V
15655.73	-51.71	2.70	15.60	-38.81	-25.00	V
17498.23	-49.36	3.30	12.80	-39.86	-25.00	V
17888.31	-49.26	3.60	12.80	-40.06	-25.00	H

LTE Band CA_41C, 20MHz+5MHz, 64QAM, CH40595+CH40712

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2932.50	-51.96	1.00	11.50	-41.46	-25.00	H
9149.65	-53.25	2.10	11.20	-44.15	-25.00	V
12377.73	-53.05	2.60	13.80	-41.85	-25.00	H
14328.12	-48.87	2.60	11.20	-40.27	-25.00	V
15654.04	-51.24	2.70	15.60	-38.34	-25.00	V
17030.73	-51.44	2.90	14.50	-39.84	-25.00	H

LTE Band CA_41C, 20MHz+5MHz, 64QAM, CH41440+CH41557

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2937.25	-52.52	1.00	11.50	-42.02	-25.00	H
11073.81	-50.75	2.30	10.50	-42.55	-25.00	H
13469.69	-51.08	2.50	12.40	-41.18	-25.00	H
15644.73	-51.50	2.70	15.60	-38.60	-25.00	V
16669.00	-52.85	2.90	16.50	-39.25	-25.00	V
17886.62	-43.63	3.20	6.20	-40.63	-25.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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LTE Band CA_41C, 20MHz+20MHz, QPSK, CH39750+CH39948

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2939.50	-52.56	1.00	11.50	-42.06	-25.00	H
7969.27	-52.35	1.90	11.30	-42.95	-25.00	H
13924.08	-49.25	2.50	11.90	-39.85	-25.00	H
15651.08	-51.09	2.40	15.60	-37.89	-25.00	H
17481.31	-48.73	3.30	12.80	-39.23	-25.00	V
17886.19	-49.37	3.30	12.80	-39.87	-25.00	V

LTE Band CA_41C, 20MHz+20MHz, QPSK, CH40521+CH40719

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2931.75	-52.48	1.00	11.50	-41.98	-25.00	H
11141.08	-49.93	2.50	10.50	-41.93	-25.00	V
13941.00	-50.44	2.50	11.90	-41.04	-25.00	H
15692.12	-51.48	2.40	15.60	-38.28	-25.00	H
17471.58	-48.46	3.30	12.80	-38.96	-25.00	V
17872.23	-42.86	3.20	6.20	-39.86	-25.00	H

LTE Band CA_41C, 20MHz+20MHz, QPSK, CH41292+CH41490

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2929.50	-52.30	1.00	11.50	-41.80	-25.00	H
8826.00	-53.76	1.90	11.60	-44.06	-25.00	V
12898.54	-51.99	2.50	13.30	-41.19	-25.00	H
15651.08	-51.45	2.40	15.60	-38.25	-25.00	V
16705.38	-51.71	2.90	16.50	-38.11	-25.00	H
17478.77	-48.65	3.30	12.80	-39.15	-25.00	V

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LTE Band CA_41C, 20MHz+20MHz, 16QAM, CH39750+CH39948

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2933.75	-52.09	1.00	11.50	-41.59	-25.00	H
7974.77	-53.39	1.90	11.30	-43.99	-25.00	H
12454.73	-52.44	2.60	13.80	-41.24	-25.00	V
14525.69	-48.82	2.60	11.20	-40.22	-25.00	V
15650.65	-51.41	2.70	15.60	-38.51	-25.00	V
17485.96	9.50	2.90	12.80	19.40	-25.00	V

LTE Band CA_41C, 20MHz+20MHz, 16QAM, CH40521+CH40719

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2928.50	-51.27	1.00	11.50	-40.77	-25.00	H
7962.08	-53.00	1.90	11.30	-43.60	-25.00	H
15621.46	-51.11	2.70	15.60	-38.21	-25.00	H
17037.50	-49.72	2.90	14.50	-38.12	-25.00	V
17495.69	-49.33	3.30	12.80	-39.83	-25.00	V
17892.12	-43.11	3.20	6.20	-40.11	-25.00	V

LTE Band CA_41C, 20MHz+20MHz, 16QAM, CH41292+CH41490

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2932.50	-51.34	1.00	11.50	-40.84	-25.00	H
9298.58	-53.31	2.00	11.20	-44.11	-25.00	H
11140.23	-48.38	2.50	10.50	-40.38	-25.00	V
15663.35	-51.66	2.40	15.60	-38.46	-25.00	V
16663.92	-52.33	2.60	16.50	-38.43	-25.00	H
17067.54	-50.12	2.90	14.50	-38.52	-25.00	H

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LTE Band CA_41C, 20MHz+20MHz, 64QAM, CH39750+CH39948

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2932.25	-51.91	1.00	11.50	-41.41	-25.00	H
8793.42	-53.78	1.90	11.60	-44.08	-25.00	V
13861.88	-50.36	2.20	11.90	-40.66	-25.00	H
15667.15	-51.39	2.70	15.60	-38.49	-25.00	V
16628.81	-52.28	2.60	16.50	-38.38	-25.00	H
17868.85	-42.72	3.20	6.20	-39.72	-25.00	V

LTE Band CA_41C, 20MHz+20MHz, 64QAM, CH40521+CH40719

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2936.50	-51.99	1.00	11.50	-41.49	-25.00	H
7970.12	-53.62	2.00	11.30	-44.32	-25.00	H
11160.96	-49.98	2.50	10.50	-41.98	-25.00	V
13939.73	-50.63	2.50	11.90	-41.23	-25.00	H
15660.81	-51.27	2.70	15.60	-38.37	-25.00	V
17491.88	-49.49	2.90	12.80	-39.59	-25.00	V

LTE Band CA_41C, 20MHz+20MHz, 64QAM, CH41292+CH41490

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Polarization
2931.50	-52.57	1.00	11.50	-42.07	-25.00	H
9422.54	-53.23	2.10	11.20	-44.13	-25.00	V
11180.42	-48.69	2.50	10.50	-40.69	-25.00	H
13480.27	-51.12	2.50	12.40	-41.22	-25.00	H
15657.85	-50.83	2.70	15.60	-37.93	-25.00	V
17031.15	-51.40	2.90	14.50	-39.80	-25.00	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.90dB(30MHz-3GHz)/3.50dB(3GHz-18GHz)/3.90dB(18GHz-40GHz), k = 2

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A.3 FREQUENCY STABILITY

Reference

FCC: CFR Part 2.1055, 22.355, 24.235, 27.54, 90.213.

A.3.1 Method of Measurement

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

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

A.3.2 Measurement Limit

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d) (2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.35VDC, with a nominal voltage of 3.8VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance from -5.4% to 10.8%. For the purposes of measuring frequency stability these voltage limits are to be used.

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A.3.3 Measurement results

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	22	12	7	0.012	0.006	0.004
3.8	13	8	11	0.007	0.004	0.006
4.35	9	5	4	0.005	0.003	0.002

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	26	15	21	0.014	0.008	0.011
0	15	3	15	0.008	0.002	0.008
10	28	6	14	0.015	0.003	0.007
20	14	17	3	0.007	0.009	0.002
30	7	18	9	0.004	0.010	0.005
40	9	22	18	0.005	0.012	0.010
50	13	9	7	0.007	0.005	0.004

Expanded measurement uncertainty is 10 Hz, k = 2

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	16	12	6	0.009	0.007	0.003
3.8	25	14	5	0.014	0.008	0.003
4.35	22	7	11	0.013	0.004	0.006

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	11	11	14	0.006	0.006	0.008
0	21	2	12	0.012	0.001	0.007
10	14	4	5	0.008	0.002	0.003
20	8	17	8	0.005	0.010	0.005
30	5	15	17	0.003	0.009	0.010
40	3	13	26	0.002	0.008	0.015
50	2	6	23	0.001	0.003	0.013

Expanded measurement uncertainty is 10Hz, k = 2

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	23	21	16	0.027	0.025	0.019
3.8	25	25	36	0.030	0.030	0.043
4.35	18	33	9	0.022	0.039	0.011

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	22	15	19	0.026	0.018	0.023
0	15	25	17	0.018	0.030	0.020
10	24	11	15	0.029	0.013	0.018
20	32	14	28	0.038	0.017	0.033
30	18	34	7	0.022	0.041	0.008
40	9	36	16	0.011	0.043	0.019
50	25	28	33	0.030	0.033	0.039

Expanded measurement uncertainty is 10Hz, k = 2

LTE Band 7, 5MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	23	26	15	0.009	0.010	0.006
3.8	5	8	19	0.002	0.003	0.007
4.35	16	7	28	0.006	0.003	0.011

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	14	33	22	0.006	0.013	0.009
0	18	26	15	0.007	0.010	0.006
10	29	25	26	0.011	0.010	0.010
20	37	8	35	0.015	0.003	0.014
30	14	18	39	0.006	0.007	0.015
40	8	17	17	0.003	0.007	0.007
50	26	24	28	0.010	0.009	0.011

Expanded measurement uncertainty is 10 Hz, k = 2

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LTE Band 12, 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	22	13	22	0.031	0.018	0.031
3.8	16	15	24	0.023	0.021	0.034
4.35	28	26	16	0.040	0.037	0.023

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	16	23	8	0.023	0.033	0.011
0	15	25	5	0.021	0.035	0.007
10	28	16	15	0.040	0.023	0.021
20	8	18	11	0.011	0.025	0.016
30	5	17	12	0.007	0.024	0.017
40	13	4	21	0.018	0.006	0.030
50	22	9	29	0.031	0.013	0.041

Expanded measurement uncertainty is 10Hz, k = 2

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	13	22	9	0.017	0.028	0.012
3.8	26	15	15	0.033	0.019	0.019
4.35	25	26	3	0.032	0.033	0.004

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	1	22	44	0.001	0.028	0.056
0	2	16	26	0.003	0.020	0.033
10	8	13	8	0.010	0.017	0.010
20	15	11	3	0.019	0.014	0.004
30	3	4	7	0.004	0.005	0.009
40	7	7	19	0.009	0.009	0.024
50	9	6	6	0.012	0.008	0.008

Expanded measurement uncertainty is 10Hz, k = 2

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	9	13	11	0.012	0.017	0.014
3.8	8	4	2	0.010	0.005	0.003
4.35	15	8	8	0.019	0.010	0.010

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	1	9	13	0.001	0.012	0.017
0	4	4	16	0.005	0.005	0.020
10	15	8	12	0.019	0.010	0.015
20	28	11	14	0.036	0.014	0.018
30	16	12	17	0.020	0.015	0.022
40	13	11	9	0.017	0.014	0.012
50	11	17	12	0.014	0.022	0.015

Expanded measurement uncertainty is 10Hz, k = 2

LTE Band 17, 5MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	22	26	33	0.028	0.033	0.042
3.8	32	28	29	0.041	0.036	0.037
4.35	15	38	36	0.019	0.049	0.046

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	44	38	37	0.056	0.049	0.047
0	43	26	42	0.055	0.033	0.054
10	46	29	45	0.059	0.037	0.058
20	38	34	43	0.049	0.043	0.055
30	32	45	29	0.041	0.058	0.037
40	33	43	38	0.042	0.055	0.049
50	35	36	35	0.045	0.046	0.045

Expanded measurement uncertainty is 10Hz, k = 2

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LTE Band 25, 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	22	45	24	0.012	0.024	0.013
3.8	26	9	37	0.014	0.005	0.020
4.35	43	15	16	0.023	0.008	0.008

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	26	46	44	0.014	0.024	0.023
0	35	49	36	0.019	0.026	0.019
10	14	25	22	0.007	0.013	0.012
20	18	38	24	0.010	0.020	0.013
30	29	47	17	0.015	0.025	0.009
40	33	43	39	0.018	0.023	0.021
50	35	41	46	0.019	0.022	0.024

Expanded measurement uncertainty is 10Hz, k = 2

LTE Band 26(814MHz-824MHz), 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	26	18	26	0.032	0.022	0.032
3.8	35	25	35	0.043	0.031	0.043
4.35	9	38	33	0.011	0.046	0.040

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	36	42	44	0.044	0.051	0.054
0	35	43	35	0.043	0.053	0.043
10	29	25	33	0.035	0.031	0.040
20	18	8	26	0.022	0.010	0.032
30	27	16	27	0.033	0.020	0.033
40	23	39	24	0.028	0.048	0.029
50	31	42	38	0.038	0.051	0.046

Expanded measurement uncertainty is 10Hz, k = 2

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LTE band 26(824MHz-849MHz), 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	19	22	9	0.023	0.026	0.011
3.8	26	35	16	0.031	0.042	0.019
4.35	35	18	3	0.042	0.022	0.004

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	34	26	26	0.041	0.031	0.031
0	48	24	38	0.057	0.029	0.045
10	15	28	15	0.018	0.033	0.018
20	36	35	22	0.043	0.042	0.026
30	29	31	15	0.035	0.037	0.018
40	38	42	42	0.045	0.050	0.050
50	26	49	26	0.031	0.059	0.031

Expanded measurement uncertainty is 10Hz, k = 2

LTE Band 30, 5MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	26	18	11	0.014	0.010	0.006
3.8	35	26	11	0.019	0.014	0.006
4.35	8	13	25	0.004	0.007	0.013

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	36	14	30	0.019	0.007	0.016
0	12	24	12	0.006	0.013	0.006
10	15	9	24	0.008	0.005	0.013
20	28	8	26	0.015	0.004	0.014
30	16	16	28	0.008	0.008	0.015
40	35	35	19	0.019	0.019	0.010
50	22	26	8	0.012	0.014	0.004

Expanded measurement uncertainty is 10 Hz, *k* = 2

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LTE Band 38, 5MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	26	16	23	0.010	0.006	0.009
3.8	35	8	16	0.013	0.003	0.006
4.35	14	17	8	0.005	0.007	0.003

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	21	13	14	0.008	0.005	0.005
0	14	15	17	0.005	0.006	0.007
10	13	18	18	0.005	0.007	0.007
20	11	16	29	0.004	0.006	0.011
30	11	35	11	0.004	0.013	0.004
40	15	19	9	0.006	0.007	0.003
50	17	21	27	0.007	0.008	0.010

Expanded measurement uncertainty is 10 Hz, k = 2

LTE Band 41, 5MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	5	8	12	0.002	0.003	0.005
3.8	16	15	11	0.006	0.006	0.004
4.35	8	16	18	0.003	0.006	0.007

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	9	14	21	0.003	0.005	0.008
0	11	7	23	0.004	0.003	0.009
10	5	2	24	0.002	0.001	0.009
20	8	16	8	0.003	0.006	0.003
30	21	3	19	0.008	0.001	0.007
40	1	18	15	0.000	0.007	0.006
50	9	23	17	0.003	0.009	0.007

Expanded measurement uncertainty is 10 Hz, k = 2

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

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	28	25	11	0.016	0.014	0.006
3.8	25	23	24	0.014	0.013	0.014
4.35	16	16	9	0.009	0.009	0.005

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	18	18	26	0.010	0.010	0.015
0	5	15	17	0.003	0.009	0.010
10	21	17	14	0.012	0.010	0.008
20	14	21	16	0.008	0.012	0.009
30	19	16	25	0.011	0.009	0.014
40	22	34	8	0.013	0.019	0.005
50	13	9	13	0.007	0.005	0.007

Expanded measurement uncertainty is 10Hz, k = 2

LTE Band CA_5B, 5MHz+0MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	16	15	3	0.024	0.022	0.004
3.8	24	12	5	0.035	0.018	0.007
4.35	8	13	18	0.012	0.019	0.026

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	21	16	8	0.031	0.024	0.012
0	23	22	16	0.034	0.032	0.024
10	16	15	5	0.024	0.022	0.007
20	18	17	17	0.026	0.025	0.025
30	7	8	24	0.010	0.012	0.035
40	14	13	29	0.021	0.019	0.043
50	21	22	33	0.031	0.032	0.048

Expanded measurement uncertainty is 10Hz, k = 2

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LTE Band CA_41C, 5MHz+20MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage (V)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3.5	19	35	26	0.007	0.013	0.010
3.8	26	41	15	0.010	0.016	0.006
4.35	35	8	35	0.013	0.003	0.013

Frequency Error vs Temperature

Temperature (℃)	Frequency error (Hz)			Frequency error (ppm)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
-10	33	28	26	0.013	0.011	0.010
0	16	15	15	0.006	0.006	0.006
10	24	36	17	0.009	0.014	0.007
20	29	22	28	0.011	0.008	0.011
30	17	24	14	0.007	0.009	0.005
40	27	19	34	0.010	0.007	0.013
50	9	16	15	0.003	0.006	0.006

Expanded measurement uncertainty is 10 Hz, k = 2

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A.4 OCCUPIED BANDWIDTH

Reference

FCC: CFR Part 2.1049, 22.917, 24.238, 27.53, 90.1215.

A.4.1 Occupied Bandwidth Results

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the US Cellular/PCS frequency bands. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.

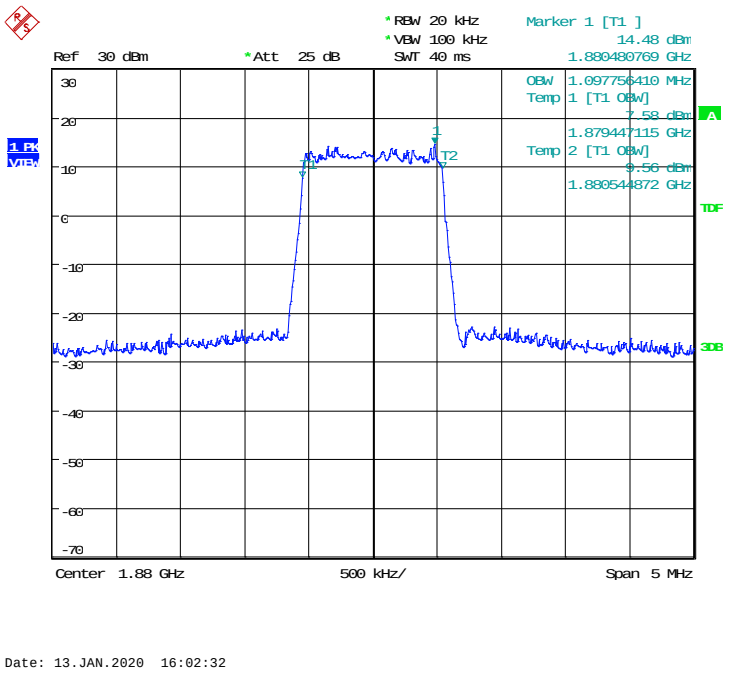
d) Set the detection mode to peak, and the trace mode to max hold.

e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

LTE band 2, 1.4MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	1097.76	1089.74	1097.76

LTE band 2, 1.4MHz Bandwidth, QPSK (99% BW)



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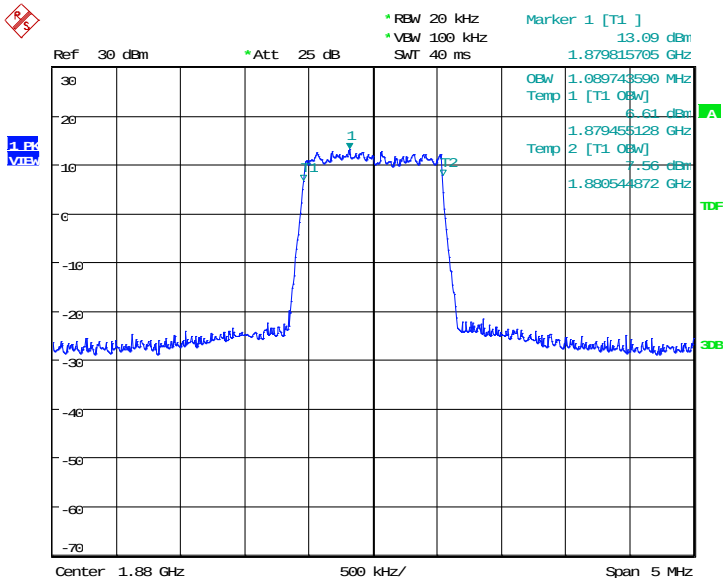
LTE band 2, 1.4MHz Bandwidth, 16QAM (99% BW)



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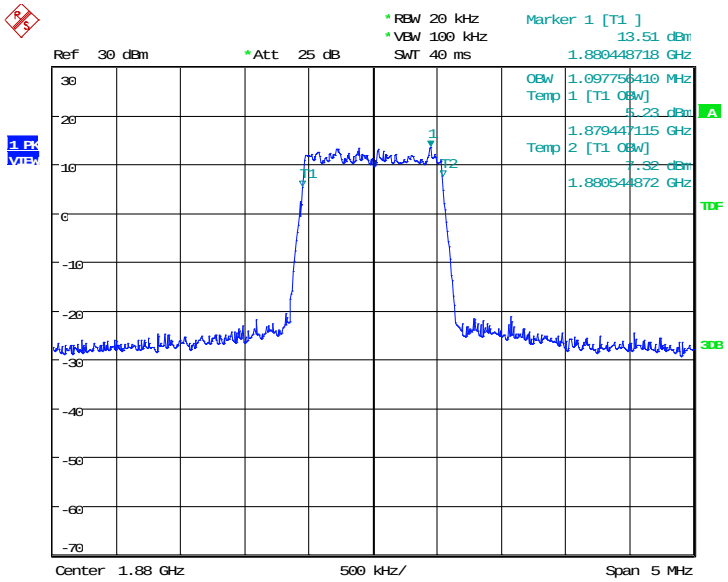
LTE band 2, 1.4MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 08:46:23

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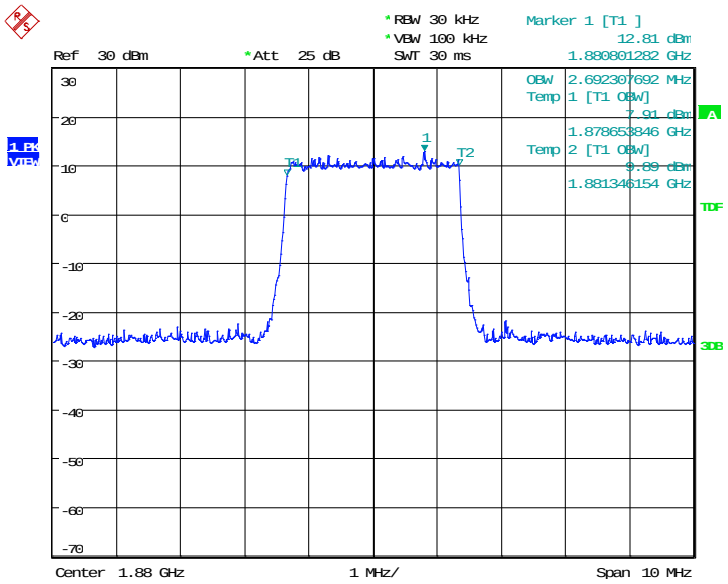
LTE band 2, 3MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	2692.31	2692.31	2692.31

LTE band 2, 3MHz Bandwidth, QPSK (99% BW)



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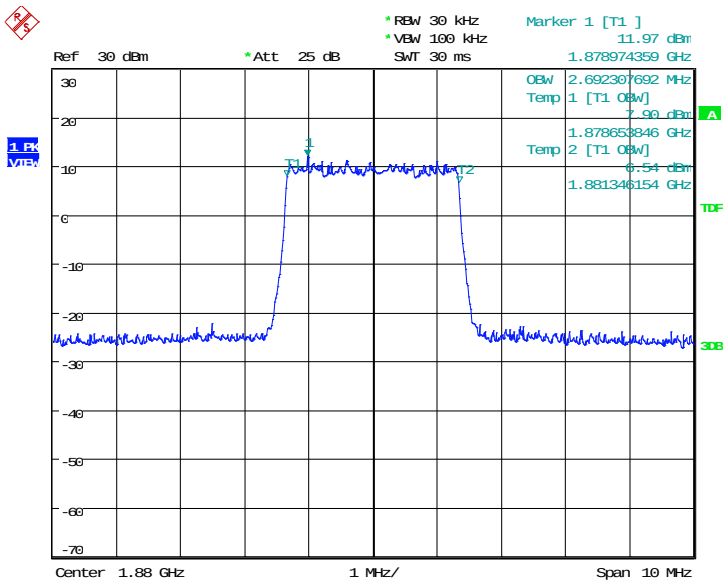
LTE band 2, 3MHz Bandwidth, 16QAM (99% BW)



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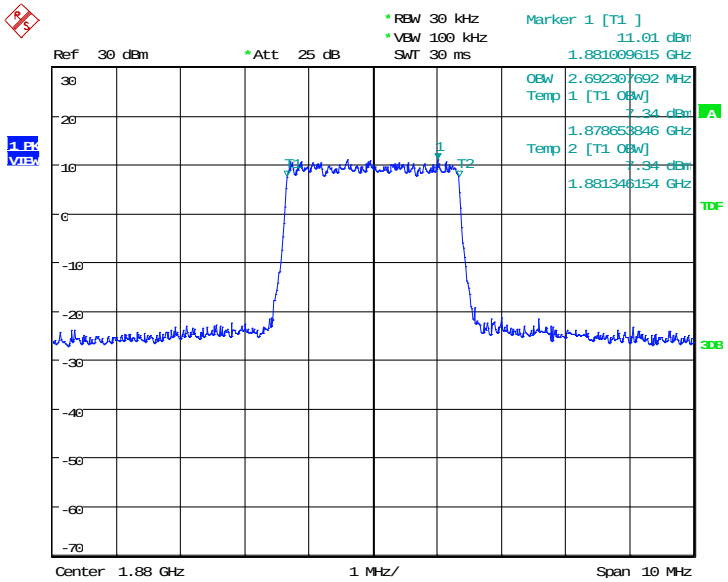
LTE band 2, 3MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 08:49:50

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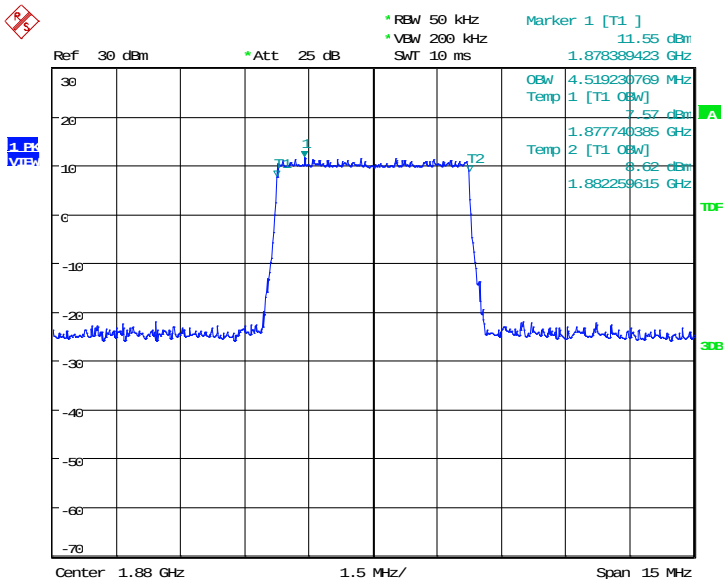
LTE band 2, 5MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	4519.23	4471.15	4495.19

LTE band 2, 5MHz Bandwidth, QPSK (99% BW)



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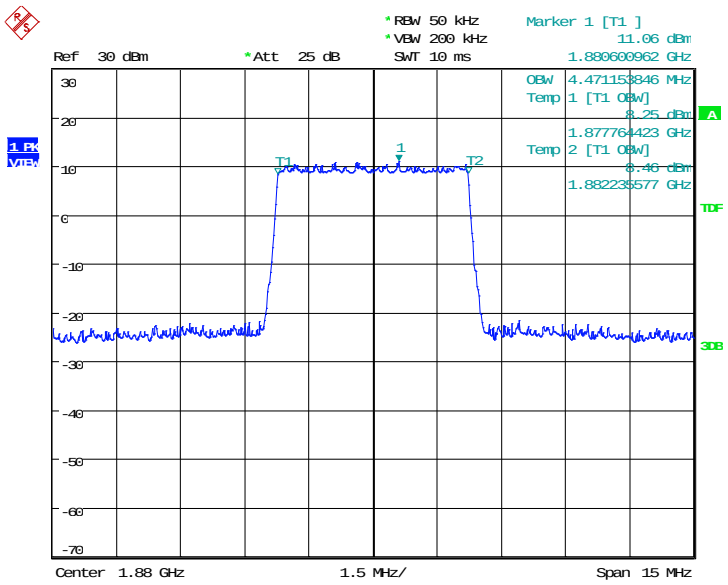
LTE band 2, 5MHz Bandwidth,16QAM (99% BW)



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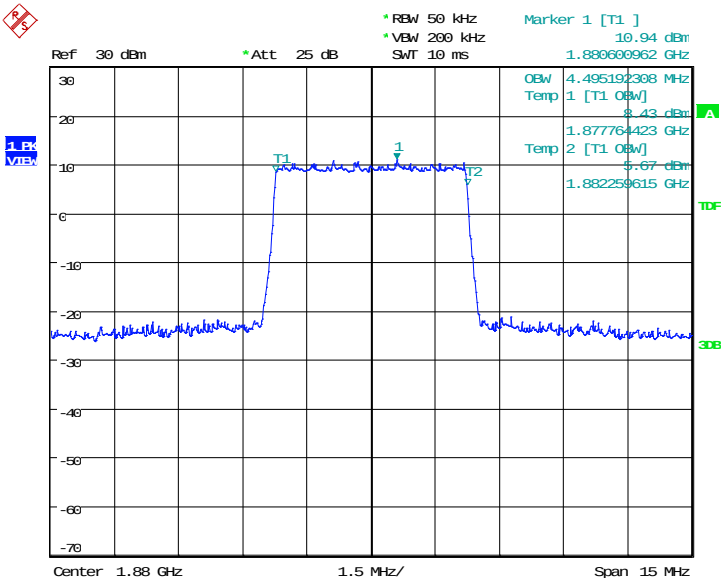
LTE band 2, 5MHz Bandwidth,64QAM (99% BW)



Date: 15.JAN.2020 08:53:17

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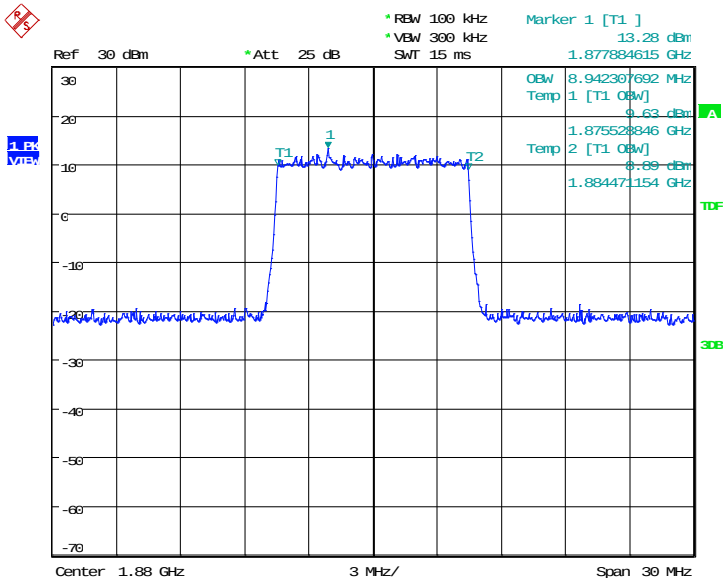
LTE band 2, 10MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	8942.31	8942.31	8990.38

LTE band 2, 10MHz Bandwidth, QPSK (99% BW)



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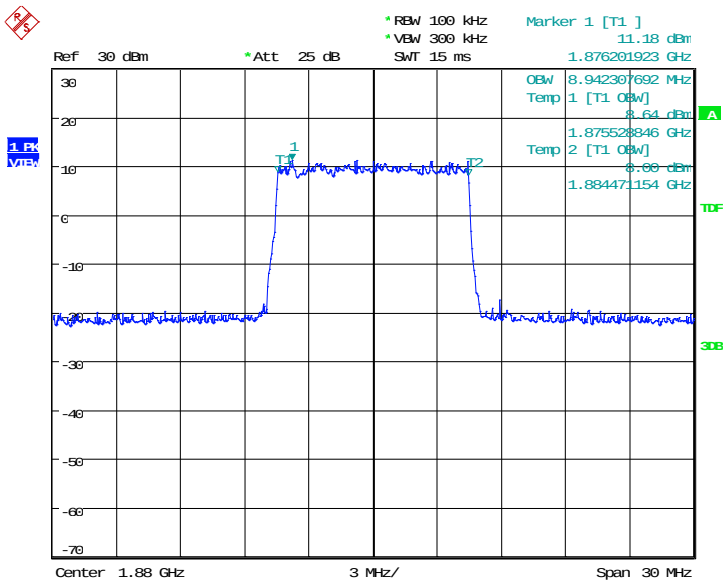
LTE band 2, 10MHz Bandwidth, 16QAM (99% BW)



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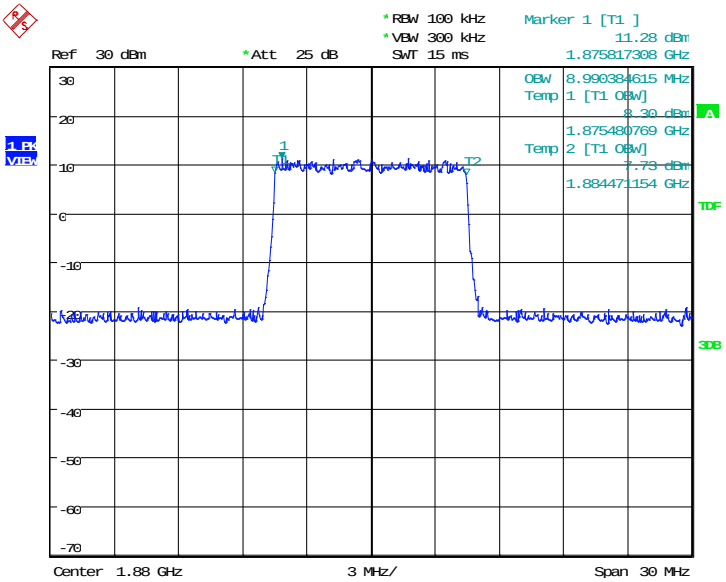
LTE band 2, 10MHz Bandwidth, 64QAM (99% BW)



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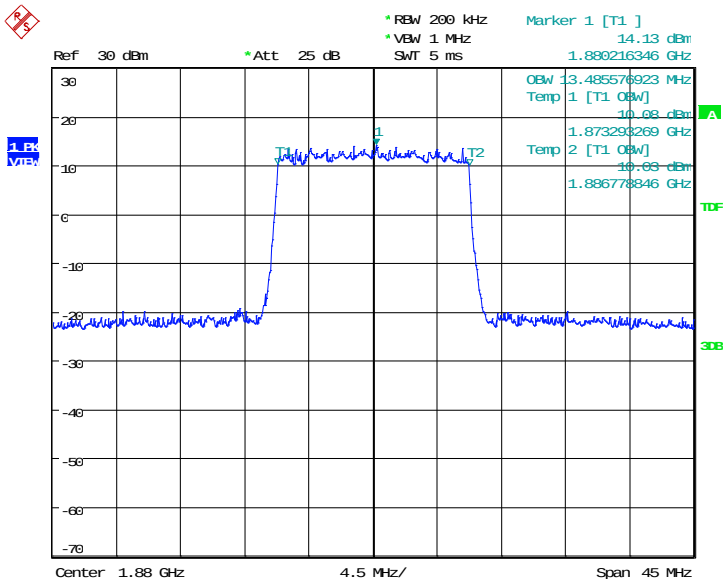
LTE band 2, 15MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	13485.58	13485.58	13485.58

LTE band 2, 15MHz Bandwidth, QPSK (99% BW)



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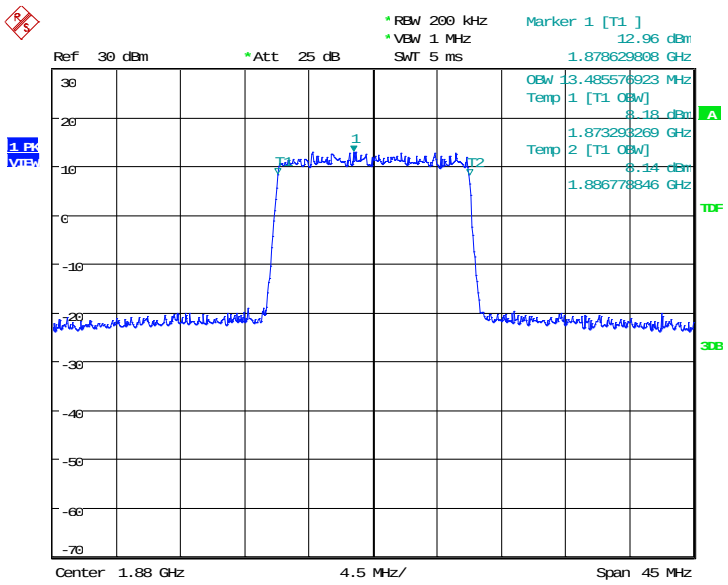
LTE band 2, 15MHz Bandwidth, 16QAM (99% BW)



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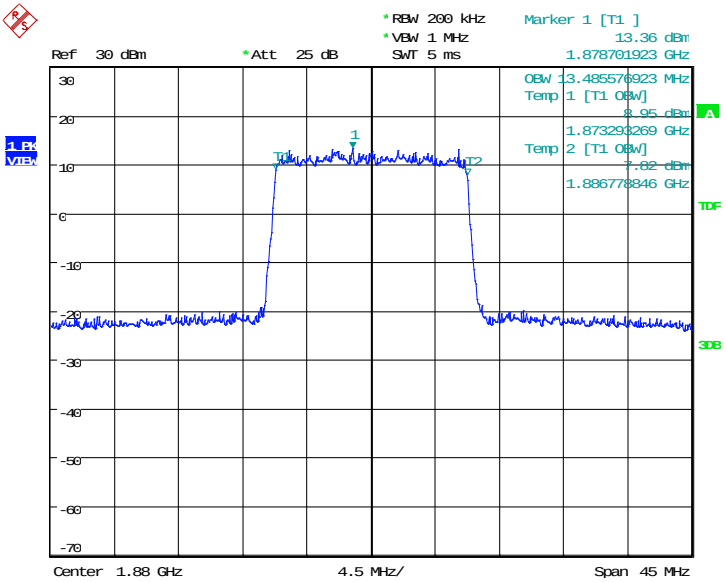
LTE band 2, 15MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:00:41

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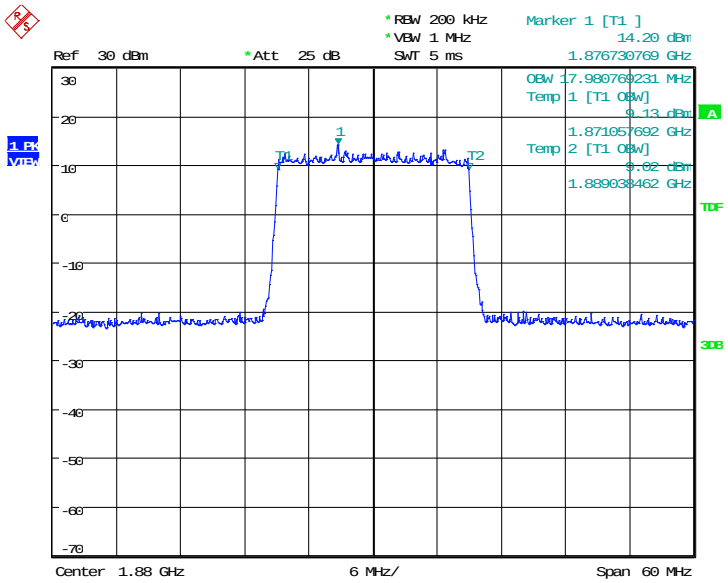
LTE band 2, 20MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	17980.77	17884.62	17884.62

LTE band 2, 20MHz Bandwidth, QPSK (99% BW)



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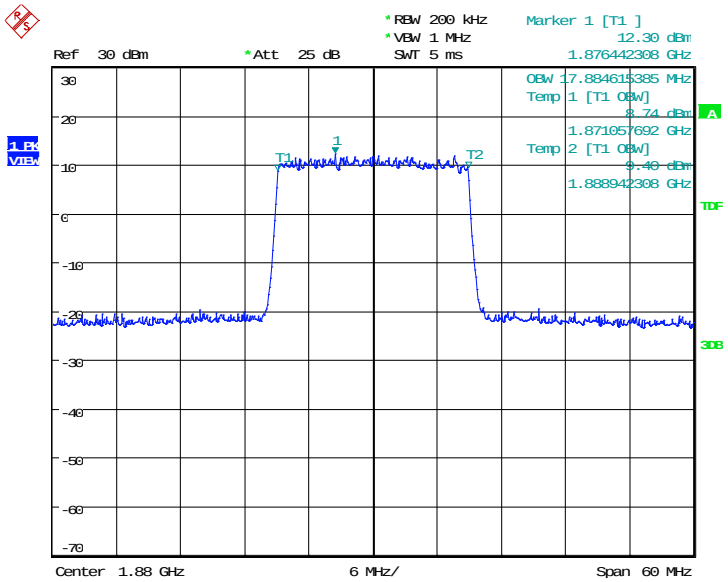
LTE band 2, 20MHz Bandwidth, 16QAM (99% BW)



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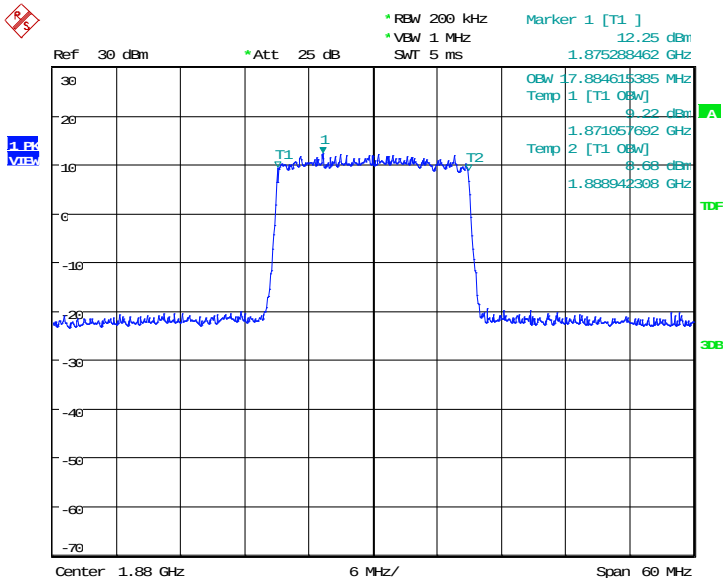
LTE band 2, 20MHz Bandwidth, 64QAM (99% BW)



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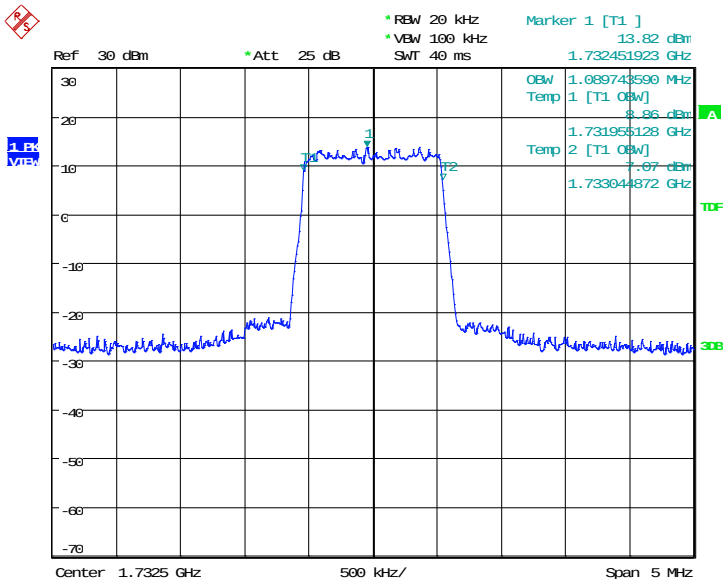
LTE band 4, 1.4MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	1089.74	1097.76	1089.74

LTE band 4, 1.4MHz Bandwidth, QPSK (99% BW)



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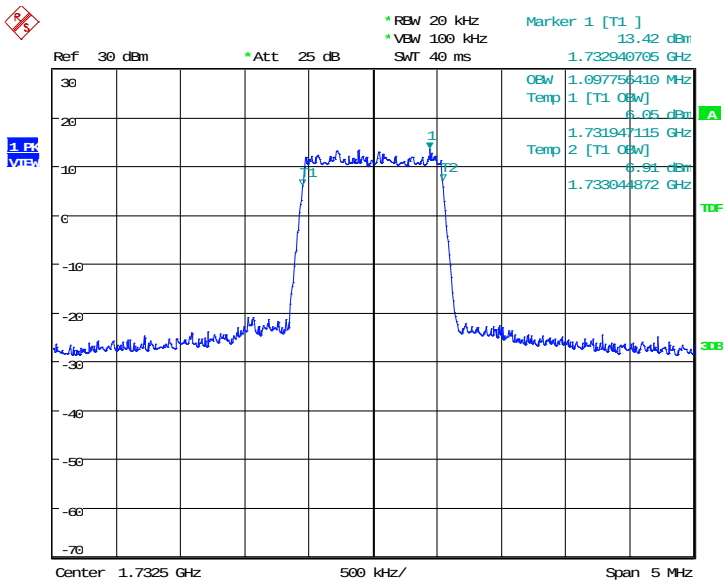
LTE band 4, 1.4MHz Bandwidth, 16QAM (99% BW)



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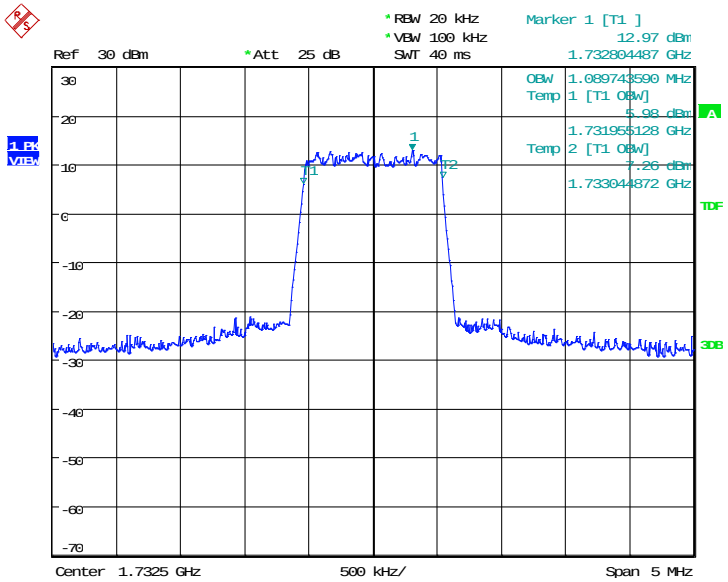
LTE band 4, 1.4MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:07:38

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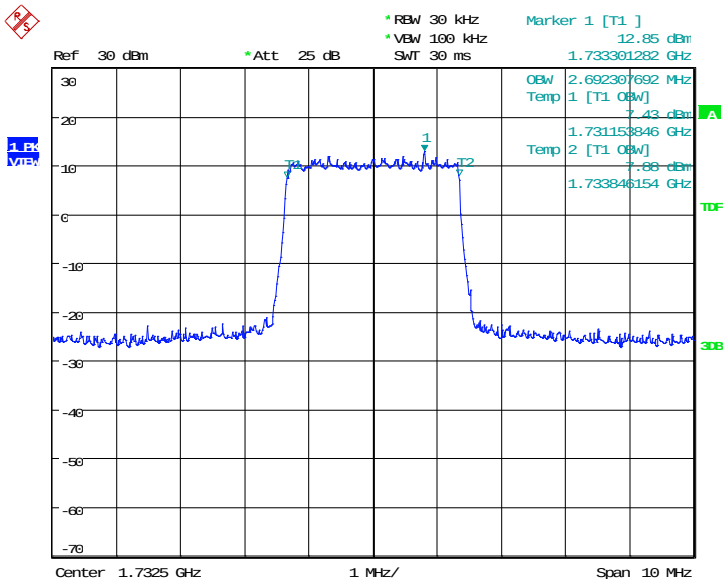
LTE band 4, 3MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	2692.31	2692.31	2708.33

LTE band 4, 3MHz Bandwidth, QPSK (99% BW)



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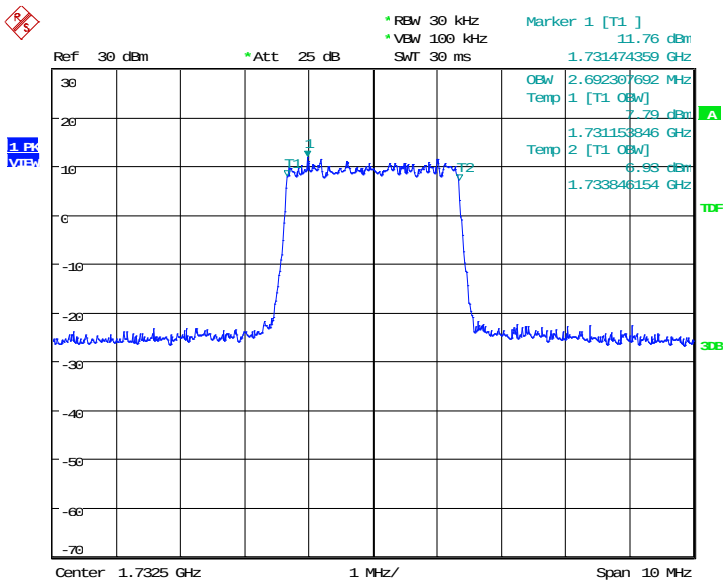
LTE band 4, 3MHz Bandwidth, 16QAM (99% BW)



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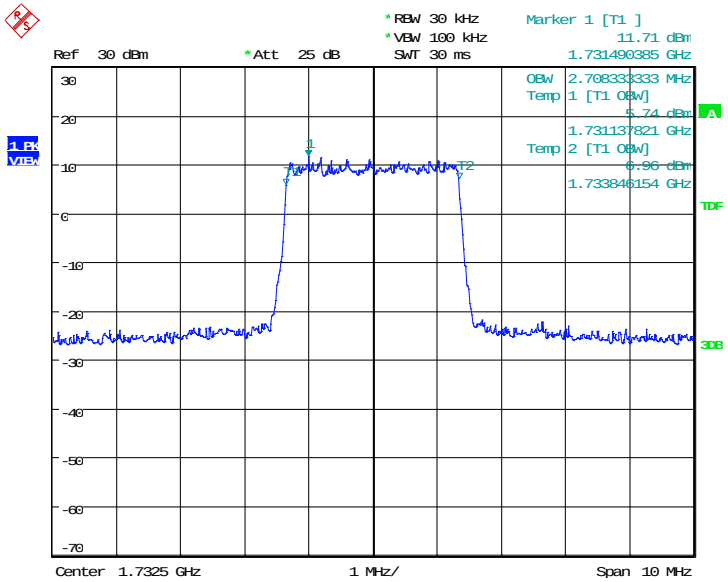
LTE band 4, 3MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:11:06

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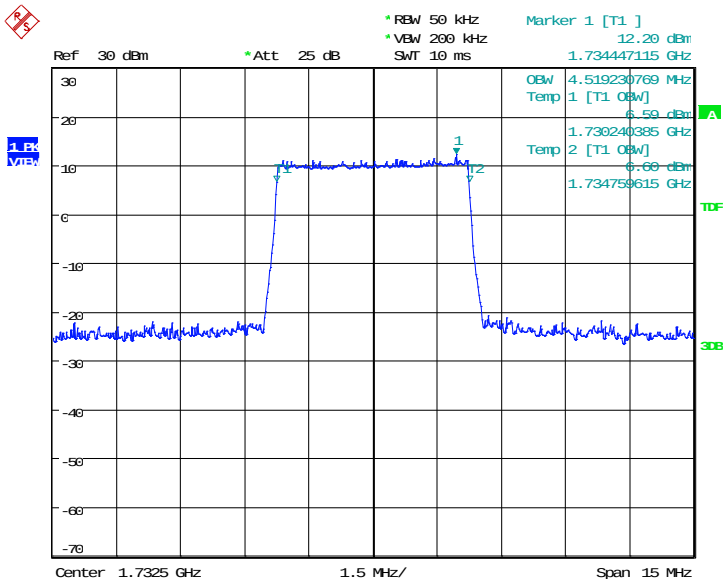
LTE band 4, 5MHz (99% BW)

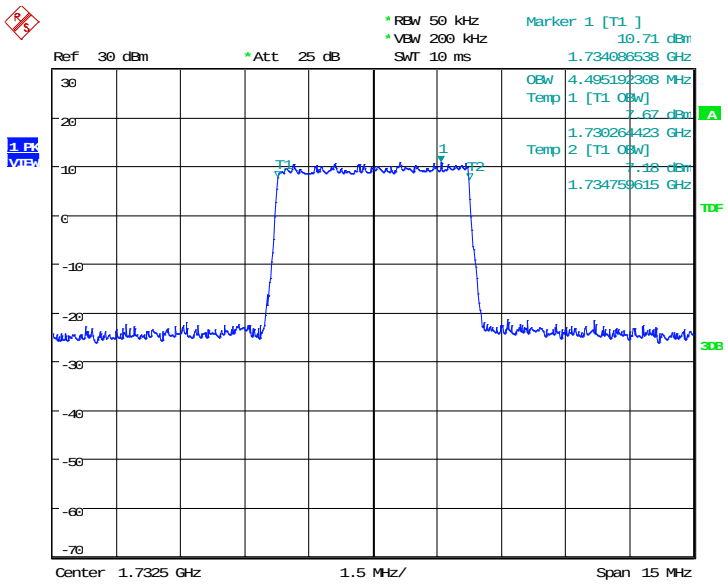
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	4519.23	4495.19	4495.19

LTE band 4, 5MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 16:46:17

LTE band 4, 5MHz Bandwidth,16QAM (99% BW)



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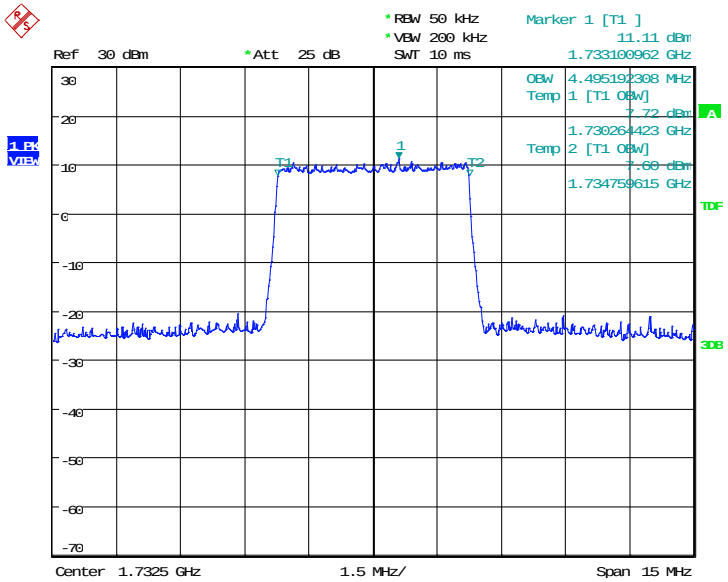
LTE band 4, 5MHz Bandwidth,64QAM (99% BW)



Date: 15.JAN.2020 09:14:33

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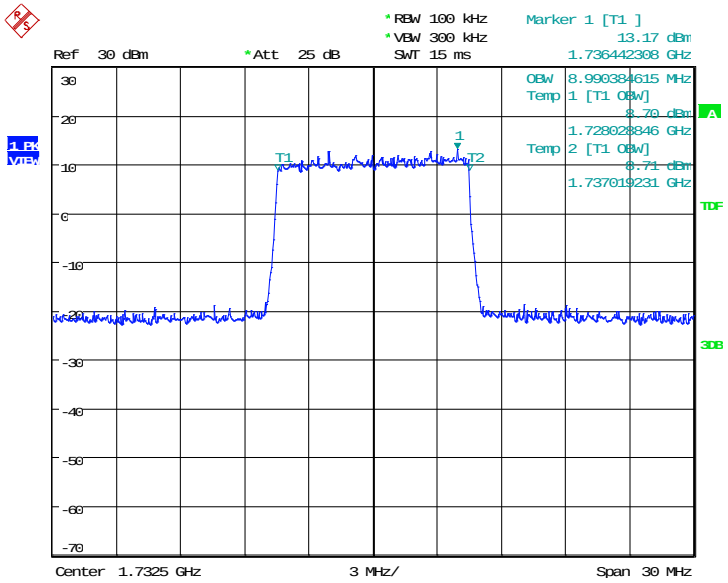
LTE band 4, 10MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	8990.38	8990.38	8990.38

LTE band 4, 10MHz Bandwidth, QPSK (99% BW)



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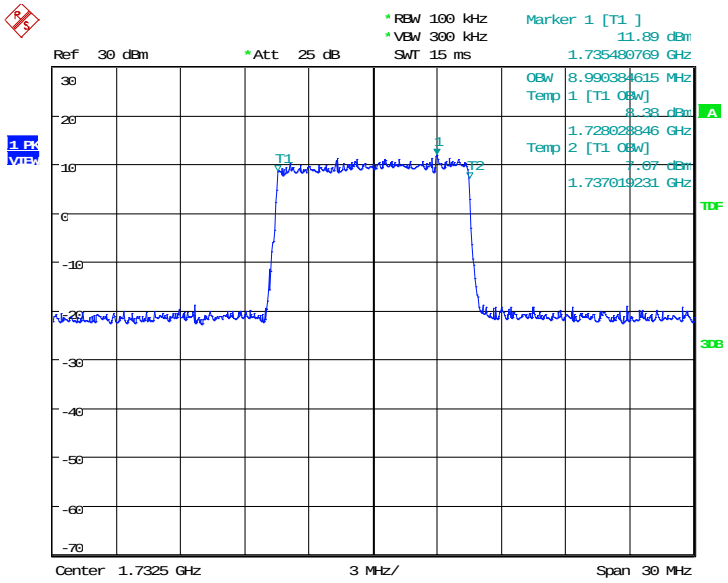
LTE band 4, 10MHz Bandwidth, 16QAM (99% BW)



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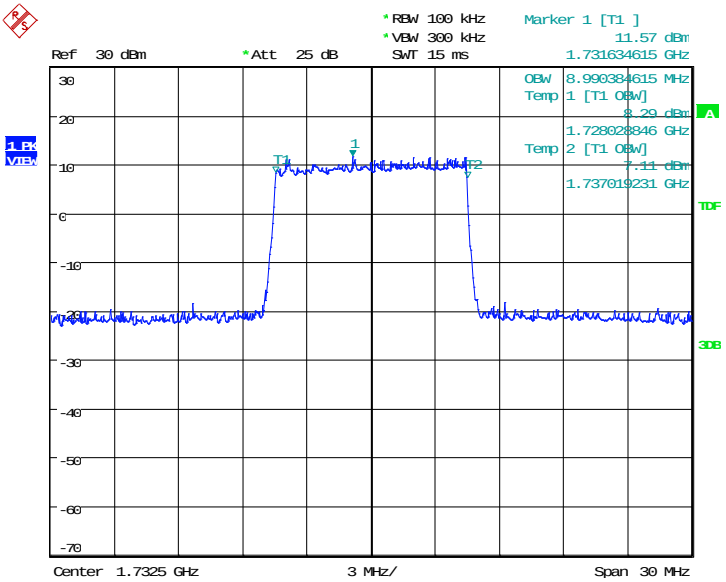
LTE band 4, 10MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:18:00

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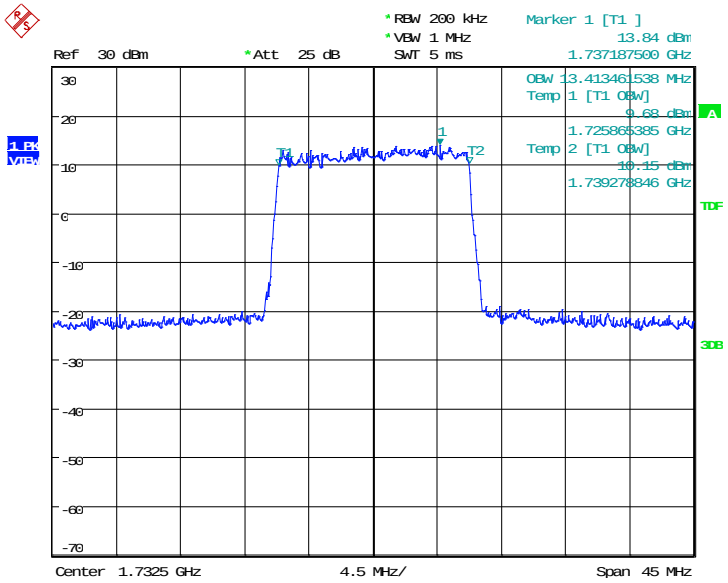
LTE band 4, 15MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	13413.46	13485.58	13485.58

LTE band 4, 15MHz Bandwidth, QPSK (99% BW)



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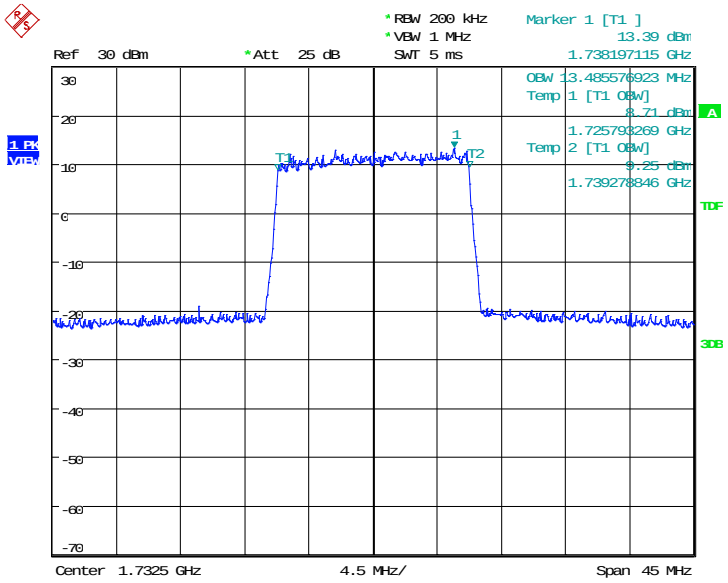
LTE band 4, 15MHz Bandwidth, 16QAM (99% BW)



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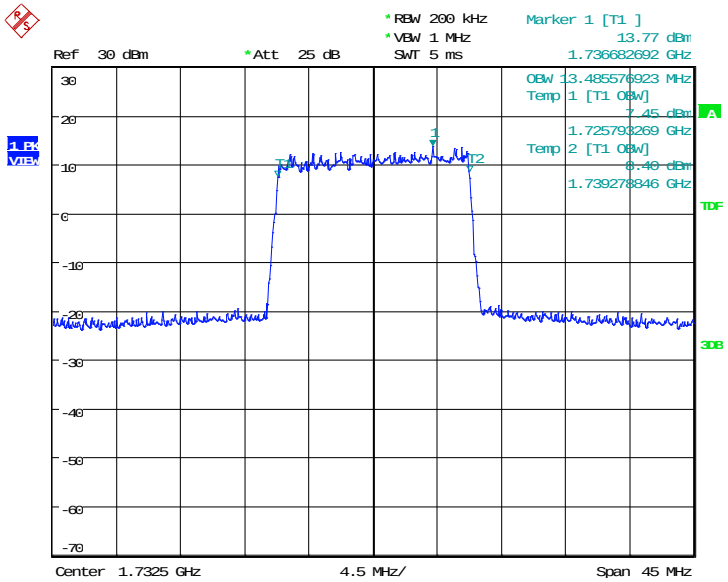
LTE band 4, 15MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:21:27

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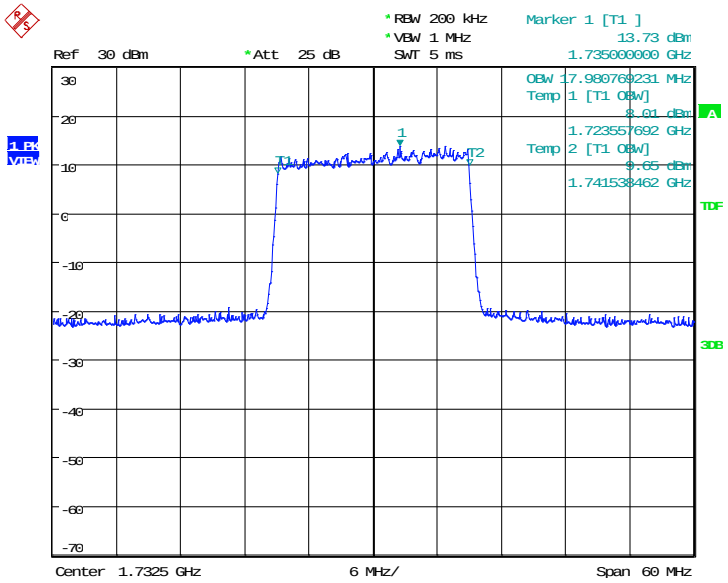
LTE band 4, 20MHz (99% BW)

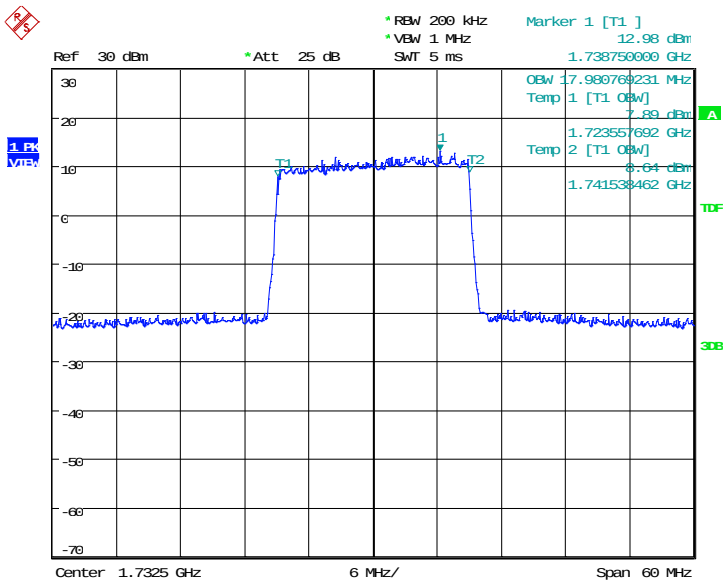
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	17980.77	17980.77	17980.77

LTE band 4, 20MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 17:02:40

LTE band 4, 20MHz Bandwidth, 16QAM (99% BW)



Date: 13.JAN.2020 17:02:53

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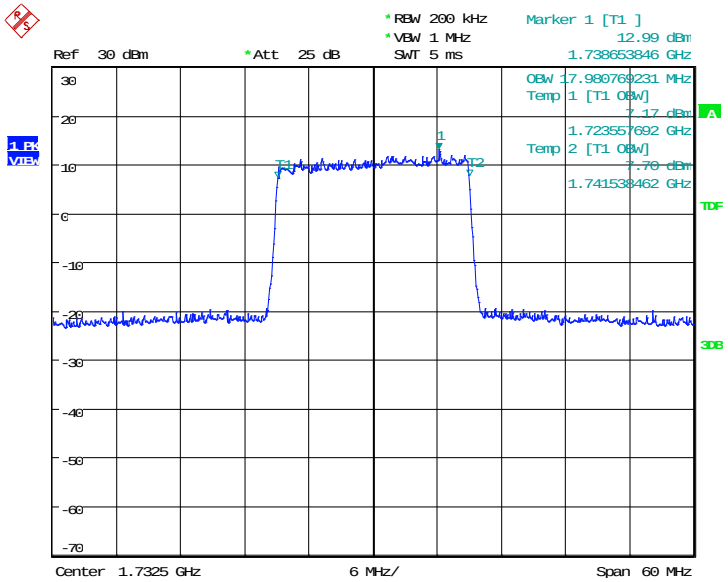
LTE band 4, 20MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 09:24:55

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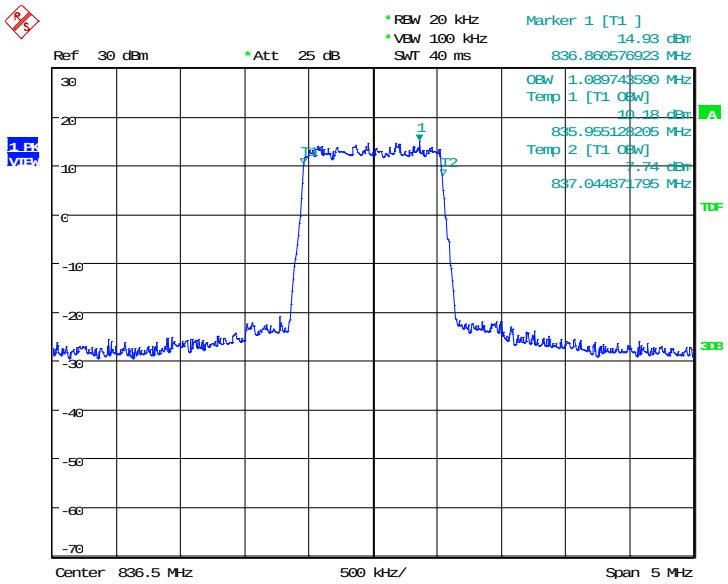
LTE band 5, 1.4MHz (99% BW)

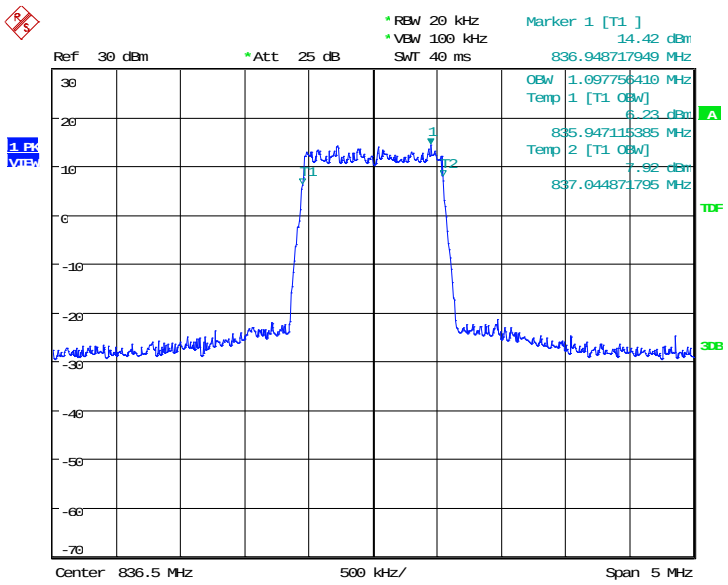
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	1089.74	1097.76	1097.76

LTE band 5, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 15:40:39

LTE band 5, 1.4MHz Bandwidth, 16QAM (99% BW)



Date: 13.JAN.2020 15:40:53

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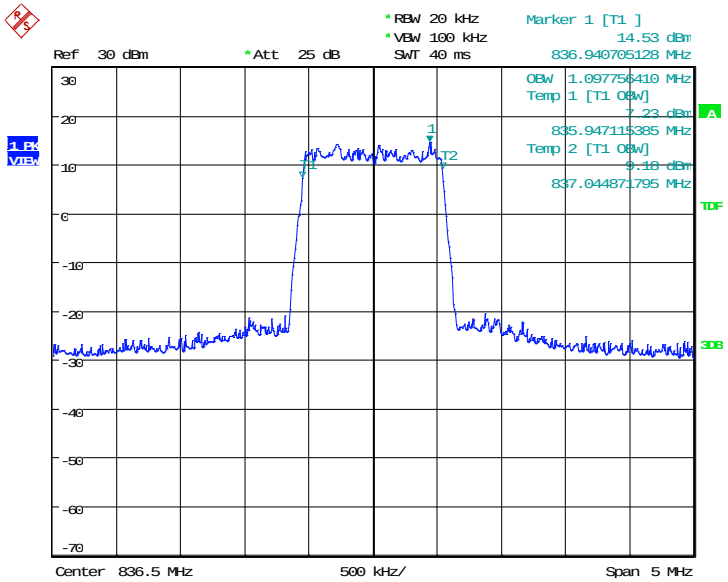
LTE band 5, 1.4MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 08:32:30

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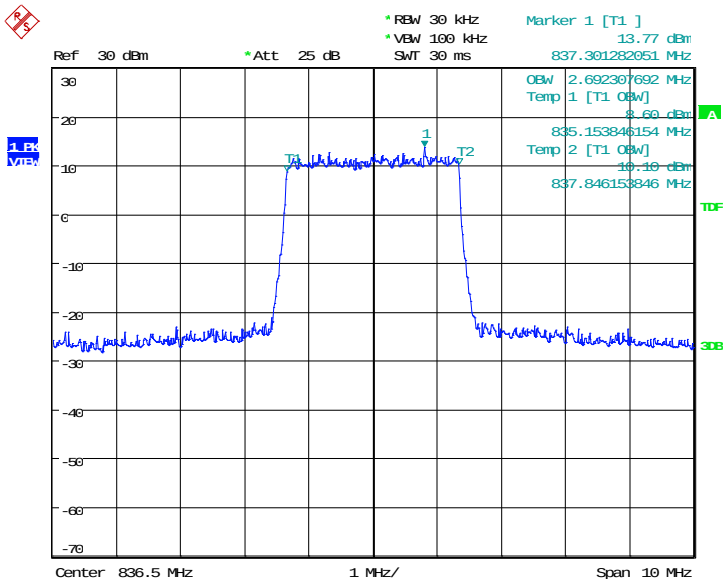
LTE band 5, 3MHz (99% BW)

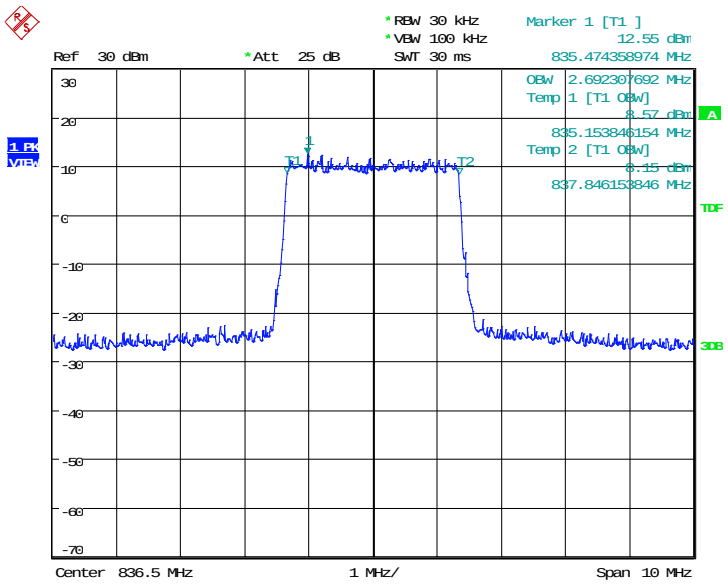
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	2692.31	2692.31	2692.31

LTE band 5, 3MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 15:46:06

LTE band 5, 3MHz Bandwidth, 16QAM (99% BW)



Date: 13.JAN.2020 15:46:20

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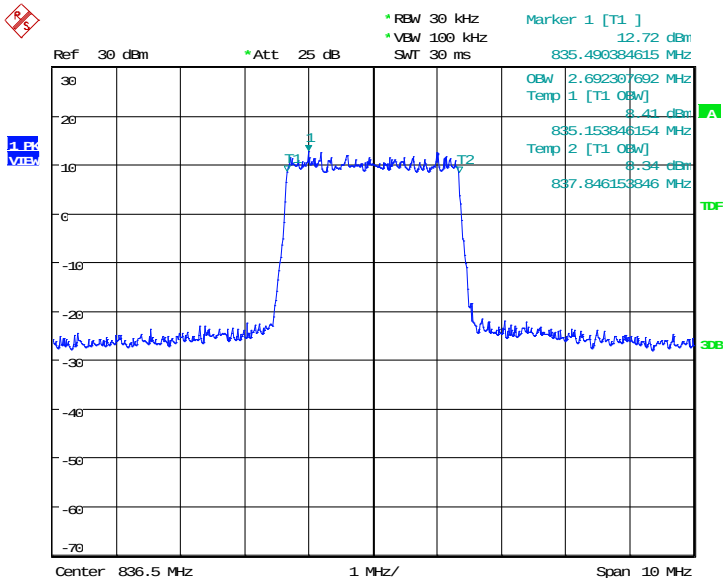
LTE band 5, 3MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 08:35:57

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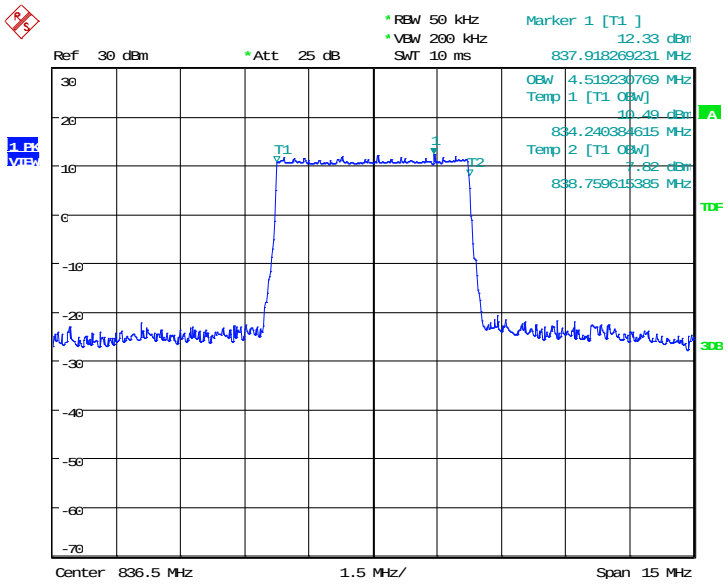
LTE band 5, 5MHz (99% BW)

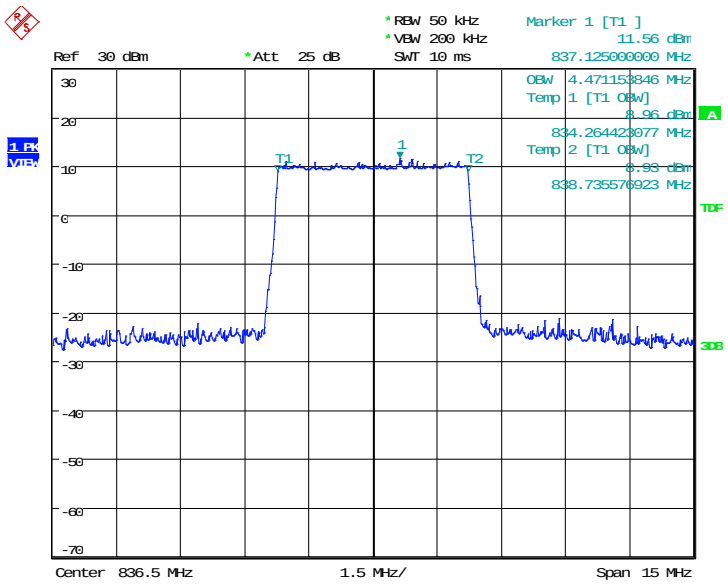
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	4519.23	4471.15	4495.19

LTE band 5, 5MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 15:51:34

LTE band 5, 5MHz Bandwidth,16QAM (99% BW)



Date: 13.JAN.2020 15:51:48

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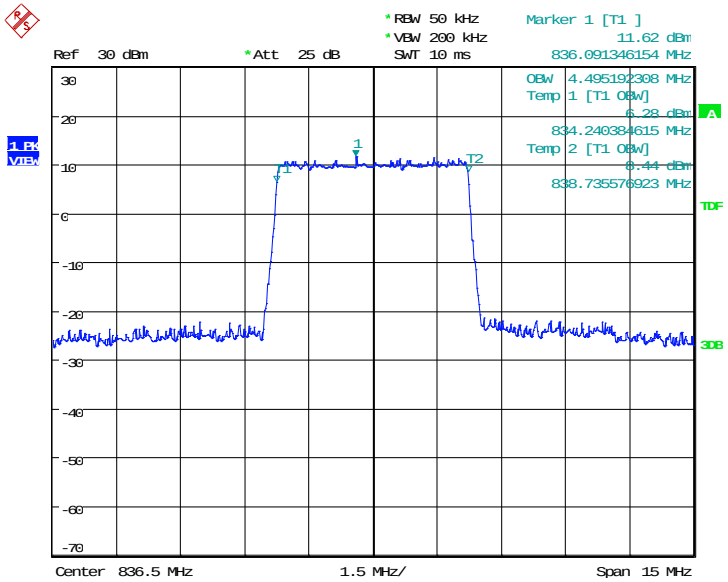
LTE band 5, 5MHz Bandwidth,64QAM (99% BW)



Date: 15.JAN.2020 08:39:25

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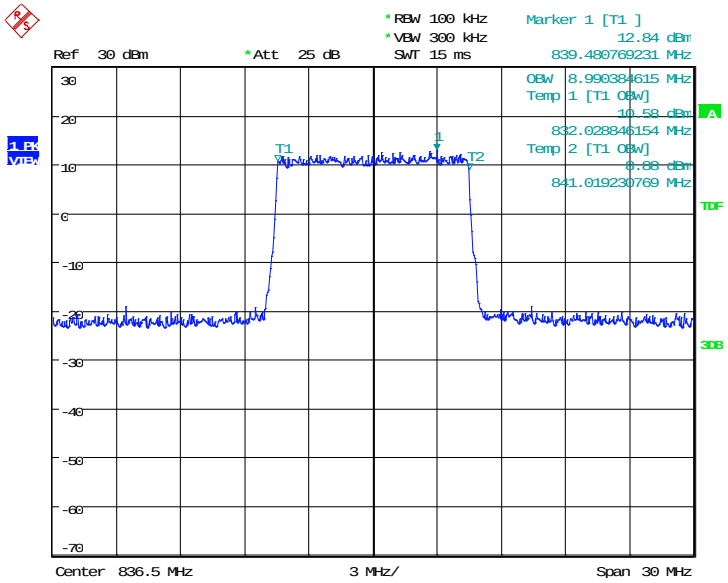
LTE band 5, 10MHz (99% BW)

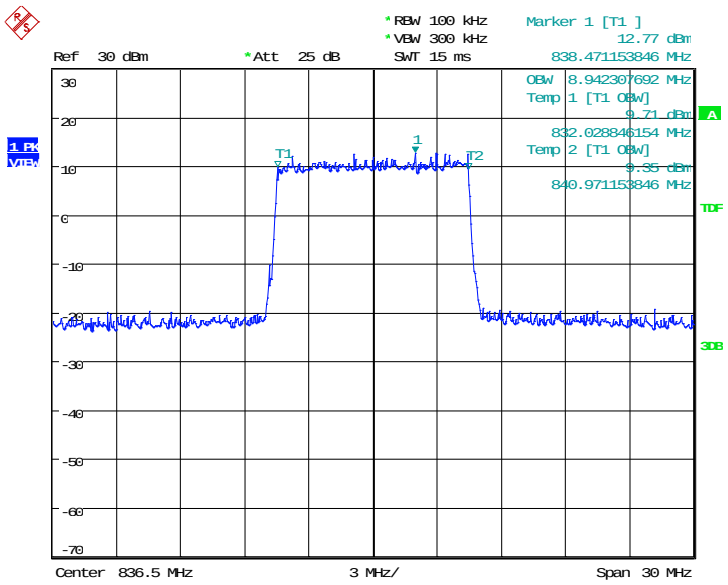
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	8990.38	8942.31	8990.38

LTE band 5, 10MHz Bandwidth, QPSK (99% BW)



Date: 13.JAN.2020 15:57:01

LTE band 5, 10MHz Bandwidth, 16QAM (99% BW)



Date: 13.JAN.2020 15:57:15

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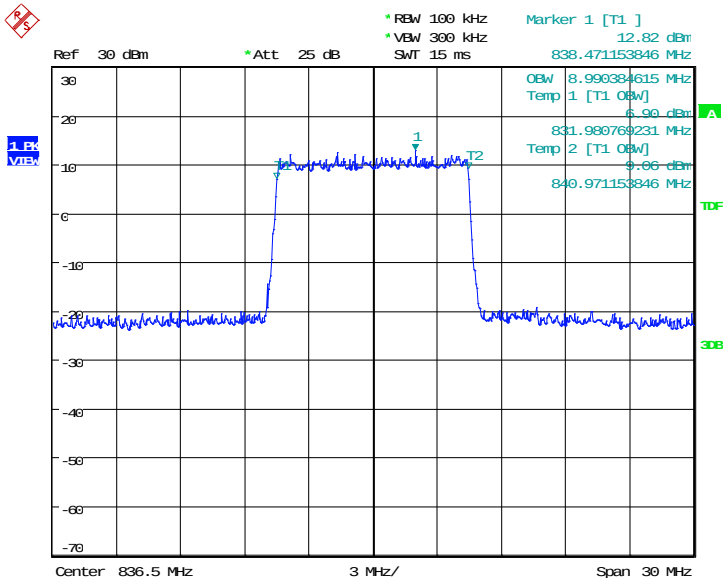
LTE band 5, 10MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 08:42:52

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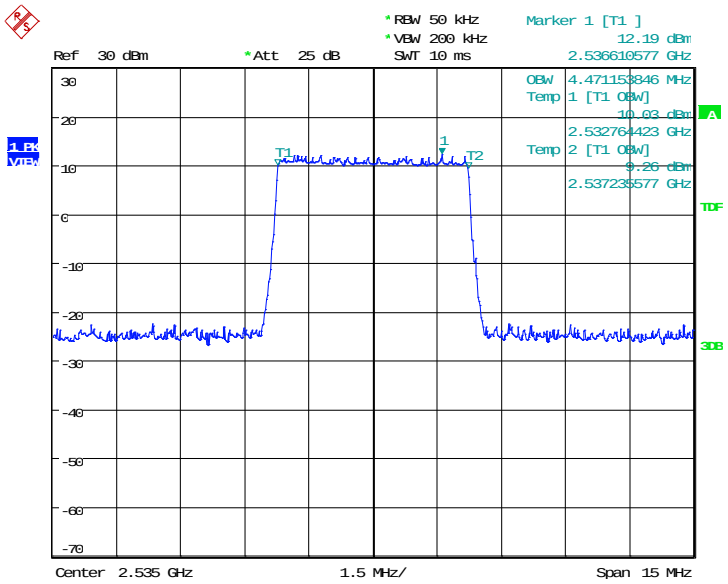
LTE band 7, 5MHz (99% BW)

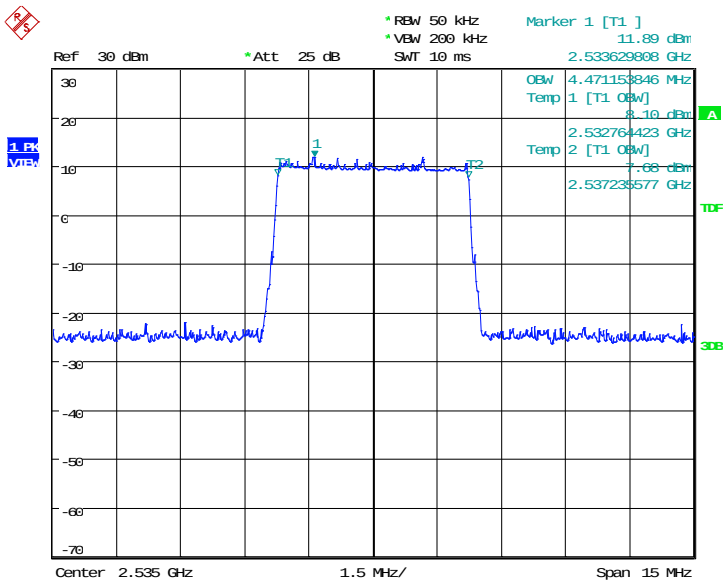
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	4471.15	4471.15	4519.23

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



Date: 14.JAN.2020 11:03:36

LTE band 7, 5MHz Bandwidth,16QAM (99% BW)



Date: 14.JAN.2020 11:03:50

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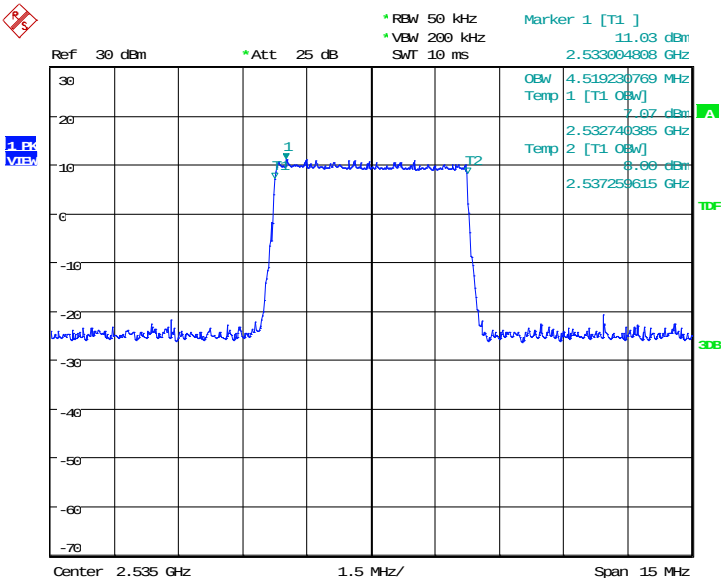
LTE band 7, 5MHz Bandwidth,64QAM (99% BW)



Date: 15.JAN.2020 07:05:58

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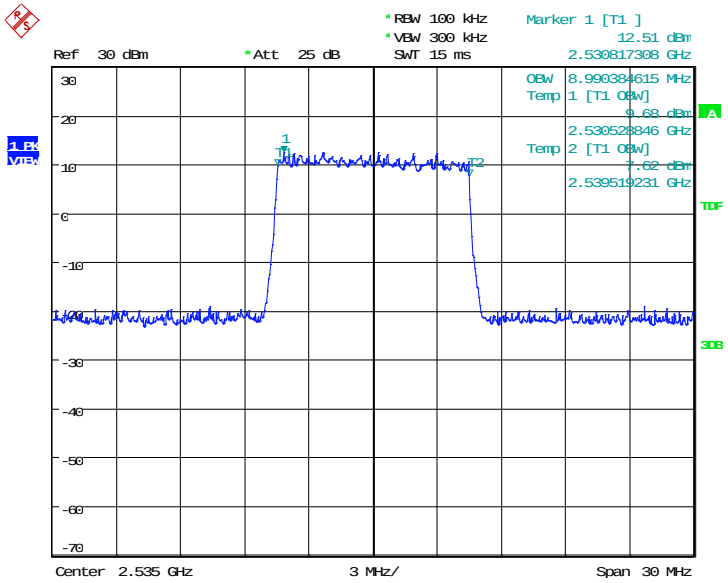
LTE band 7, 10MHz (99% BW)

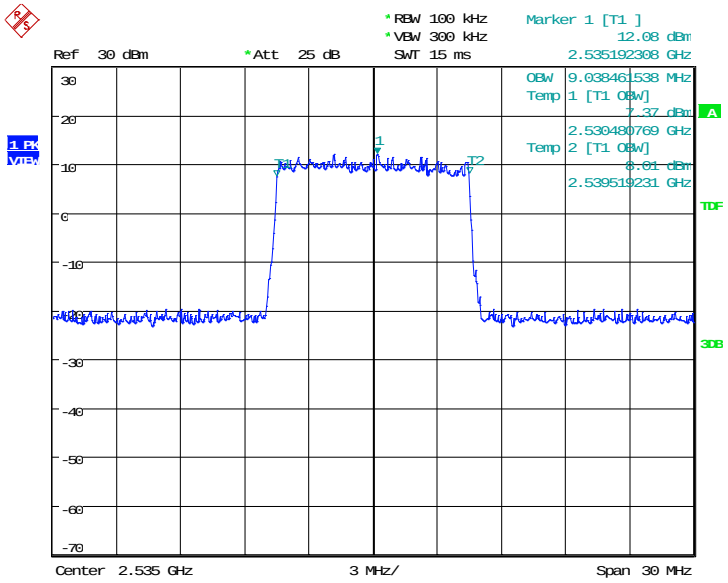
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	8990.38	9038.46	8990.38

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



Date: 15.JAN.2020 06:36:17

LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)



Date: 15.JAN.2020 06:36:30

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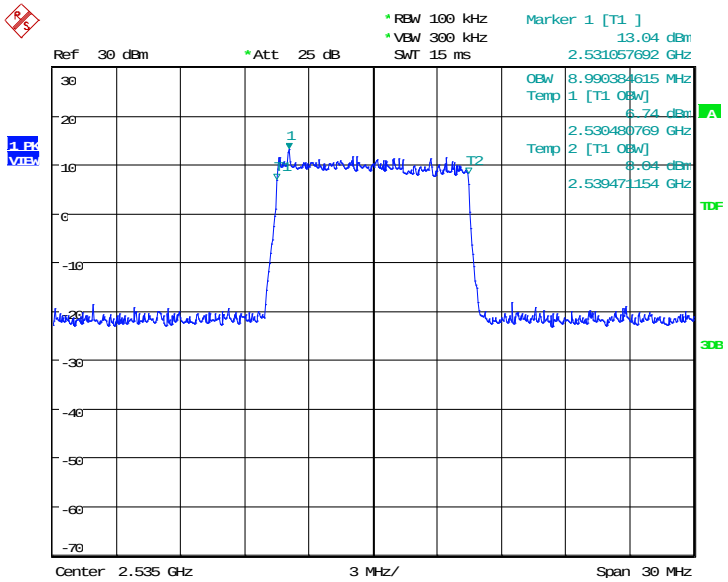
LTE band 7, 10MHz Bandwidth, 64QAM (99% BW)



Date: 15.JAN.2020 07:09:25

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