



# TEST REPORT

No.I23N01711-RF LTE

for

**Realme Chongqing Mobile Telecommunications Corp., Ltd.**

**Mobile Phone**

**Model Name: RMX3840**

**FCC ID: 2AUYFRMX3370**

with

**Hardware Version: 11**

**Software Version: realme UI 5.0**

**Issued Date: 2023-12-12**

**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**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I23N01711-RF LTE	Rev.0	1st edition	2023-12-12

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## 1. SUMMARY OF TEST REPORT

### 1.1. Test Items

Description	Mobile Phone
Model Name	RMX3840
Brand Name	realme
Applicant's name	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer's Name	Realme Chongqing Mobile Telecommunications Corp., Ltd.

### 1.2. Test Standards

FCC Part 22/24/27/90	10-1-22 Edition
FCC Part 2	10-1-21 Edition
ANSI C63.26	2015
KDB971168 D01	v03r01

### 1.3. Test Result

All test items are passed. 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 518000

### 1.5. Project Data

Testing Start Date: 2023-10-19

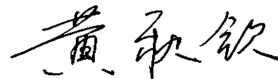
Testing End Date: 2023-12-06

### 1.6. Signature



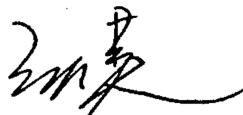
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Wang Ping  
(Prepared this test report)



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Huang Qiuqin  
(Reviewed this test report)



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Zhang Hao  
(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Realme Chongqing Mobile Telecommunications Corp., Ltd.  
Address /Post: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
Contact: Yang LiangPing  
Email: ylp@realme.net  
Telephone: (86)13798864426  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Realme Chongqing Mobile Telecommunications Corp., Ltd.  
Address /Post: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
Contact: Yang LiangPing  
Email: ylp@realme.net  
Telephone: (86)13798864426  
Fax: /

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT**

#### **(AE)**

#### **3.1. About EUT**

Description	Mobile Phone
Model Name	RMX3840
FCC ID	2AUYFRMX3370
Frequency Bands	LTE B2/4/5/7/12/13/17/26/38/41/66; CA_7C/CA_38C/CA_41C;
Antenna	Integrated
Extreme vol. Limits	3.60V to 4.48V (nominal: 3.89V)
Condition of EUT as received	No abnormality in appearance

Note1: Components list, please refer to documents of the manufacturer; it is also included in the original test record of SAICT.

#### **3.2. Internal Identification of EUT**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Date of receipt</b>
UT01aa	863994060022837	11	realme UI 5.0	2023-10-16
	863994060022829			
UT05aa	867815060019653	11	realme UI 5.0	2023-10-19
	867815060019646			

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

UT01aa are used for conduction test, UT05aa is used for radiation test.

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>
AE1	Battery
AE2	Charger
AE3	USB Cable

##### **AE1**

Model	BLPA35
Manufacturer	Sunwoda Electronic Co.,Ltd.
Capacity	4880mAh
Nominal Voltage	3.91 V

##### **AE2**

Model	VCB70AUH
Manufacturer	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Specification	American Standard Charger

##### **AE3**

Model	DL129
Manufacturer	/

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

AE: ancillary equipment



### **3.4. General Description**

The Equipment Under Test (EUT) is a model Mobile Phone 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.



#### **4. REFERENCE DOCUMENTS**

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

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-22 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-21 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-22 Edition
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB971168 D01	Power Meas License Digital Systems	v03r01



## 5. LABORATORY ENVIRONMENT

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, 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 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, 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

## 6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured

### 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

**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(CA\_7C)**

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

**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 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

**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

**LTE Band 38(CA\_38C)**

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(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



## 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



## **7. STATEMENT**

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

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

## 8. TEST EQUIPMENTS UTILIZED

No.	Description	Type	Manufacture	Series Number	Cal Due Date
1	Test Receiver	ESR7	R&S	101676	2024-11-22
2	BiLog Antenna	3142E	ETS-Lindgren	0224831	2024-05-27
3	Horn Antenna	3117	ETS-Lindgren	00066577	2025-04-17
4	Horn Antenna	QSH-SL-18-2 6-S-20	Q-par	17013	2026-02-01
5	Horn Antenna	QSH-SL-26- 40-K-20	Q-par	17014	2026-01-30
6	Antenna	BBHA 9120D	Schwarzbeck	1593	2025-10-24
7	Antenna	QWH-SL-18-4 0-K-SG	Q-par	15979	2026-01-30
8	preamplifier	83017A	Agilent	MY39501110	/
9	Signal Generator	SMB100A	R&S	179725	2024-11-22
10	Anechoic Chamber	FACT3-2.0	ETS-Lindgren	1285	2025-05-28
11	Spectrum Analyzer	FSV40	R&S	101192	2024-01-11
12	Universal Radio Communication Tester	CMU200	R&S	114545	2024-01-11
13	Universal Radio Communication Tester	CMW500	R&S	152499	2024-07-13
14	Universal Radio Communication Tester	CMW500	R&S	168719	2024-03-23
15	Universal Radio Communication Tester	E7515B	Keysight	MY59322022	2024-02-13
16	Universal Radio Communication Tester	CMW500	R&S	129146	2024-04-24
17	Spectrum Analyzer	FSW26	R&S	102197	2024-11-24
18	Temperature Chamber	SH-241	ESPEC	92007516	2024-10-15
19	DC Power Supply	U3606A	Agilent Technologies	MY50450012	2024-11-13

### Test software

Item	Name	Version
Radiated	EMC32	V10.50.40



## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 OUTPUT POWER**

#### **A.1.1 Summary**

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

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

#### **A.1.2 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	22.34	21.72	20.67
		1880.0	22.23	21.54	20.51
		1850.7	22.55	21.89	20.73
	1 RB low	1909.3	22.30	21.74	20.62
		1880.0	22.20	21.71	20.50
		1850.7	22.55	21.99	20.76
	50% RB mid	1909.3	22.39	21.56	20.64
		1880.0	22.32	21.44	20.32
		1850.7	22.59	21.80	20.78
	100% RB	1909.3	21.41	20.54	19.48
		1880.0	21.26	20.44	19.38
		1850.7	21.62	20.73	19.70
3MHz	1 RB high	1908.5	22.34	21.76	20.46
		1880.0	22.24	21.51	20.41
		1851.5	22.53	21.94	20.73
	1 RB low	1908.5	22.36	21.73	20.53
		1880.0	22.22	21.56	20.38
		1851.5	22.55	21.93	20.85
	50% RB mid	1908.5	21.52	20.62	19.61
		1880.0	21.37	20.42	19.36
		1851.5	21.58	20.66	19.62
	100% RB	1908.5	21.46	20.54	19.54
		1880.0	21.30	20.32	19.32
		1851.5	21.56	20.58	19.62
5MHz	1 RB high	1907.5	22.38	21.77	20.66
		1880.0	22.21	21.63	20.27



Bandwidth	RB size/offset	Frequency(MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	
	1 RB low	1852.5	22.53	21.94	20.78	
		1907.5	22.36	21.74	20.75	
		1880.0	22.28	21.66	20.41	
	50% RB mid	1852.5	22.53	22.04	20.94	
		1907.5	21.53	20.59	19.58	
		1880.0	21.39	20.41	19.39	
	100% RB	1852.5	21.60	20.71	19.60	
		1907.5	21.47	20.50	19.52	
		1880.0	21.32	20.40	19.38	
	10MHz	1 RB high	1852.5	21.57	20.59	19.58
			1907.5	21.32	20.40	19.38
			1880.0	21.39	20.41	19.39
1 RB low		1905.0	21.53	20.59	19.58	
		1880.0	21.39	20.41	19.39	
		1855.0	22.45	21.95	20.78	
50% RB mid		1905.0	22.35	21.68	20.55	
		1880.0	22.22	21.50	20.33	
		1855.0	22.62	21.86	20.79	
100% RB		1905.0	21.55	20.57	19.55	
		1880.0	21.35	20.38	19.38	
		1855.0	21.63	20.67	19.66	
15MHz	1 RB high	1905.0	21.45	20.45	19.41	
		1880.0	21.34	20.36	19.32	
		1855.0	21.56	20.56	19.53	
	1 RB low	1902.5	22.22	21.38	20.58	
		1880.0	22.03	21.29	20.19	
		1857.5	22.22	21.57	20.26	
	50% RB mid	1902.5	21.82	21.30	19.97	
		1880.0	21.99	21.19	20.24	
		1857.5	22.41	21.71	20.65	
	100% RB	1902.5	21.30	20.29	19.27	
		1880.0	21.29	20.25	19.21	
		1857.5	21.46	20.47	19.49	
20MHz	1 RB high	1902.5	21.23	20.27	19.27	
		1880.0	21.25	20.19	19.21	
		1857.5	21.46	20.46	19.46	
	1 RB low	1900.0	22.28	21.67	20.47	
		1880.0	21.95	21.21	20.11	
		1860.0	22.04	21.51	20.09	
	50% RB mid	1900.0	22.26	21.29	20.05	
		1880.0	21.96	21.24	20.11	
		1860.0	22.43	21.72	20.56	
		1900.0	21.32	20.35	19.30	



Bandwidth	RB size/offset	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		1880.0	21.25	20.27	19.22
		1860.0	21.44	20.41	19.45
		1900.0	21.26	20.27	19.25
	100% RB	1880.0	21.23	20.20	19.19
		1860.0	21.44	20.45	19.44

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	22.20	21.54	20.42
		1732.5	22.22	21.53	20.34
		1710.7	22.19	21.53	20.44
	1 RB low	1754.3	22.23	21.64	20.39
		1732.5	22.22	21.66	20.53
		1710.7	22.18	21.52	20.38
	50% RB mid	1754.3	22.30	21.45	20.40
		1732.5	22.26	21.35	20.35
		1710.7	22.22	21.37	20.32
	100% RB	1754.3	21.27	20.37	19.37
		1732.5	21.27	20.32	19.37
		1710.7	21.17	20.32	19.35
3MHz	1 RB high	1753.5	22.11	21.63	20.59
		1732.5	22.54	21.52	20.45
		1711.5	22.15	21.59	20.18
	1 RB low	1753.5	22.16	21.61	20.64
		1732.5	22.21	21.65	20.51
		1711.5	22.15	21.58	20.43
	50% RB mid	1753.5	22.25	20.39	19.43
		1732.5	21.33	20.33	19.42
		1711.5	21.26	20.42	19.35
	100% RB	1753.5	22.20	20.36	19.34
		1732.5	21.31	20.32	19.33
		1711.5	21.23	20.32	19.34
5MHz	1 RB high	1752.5	22.23	21.53	20.32
		1732.5	22.29	21.52	20.46
		1712.5	22.22	21.55	20.38
	1 RB low	1752.5	22.27	21.61	20.55
		1732.5	22.17	21.58	20.51
		1712.5	22.15	21.54	20.61
	50% RB mid	1752.5	21.34	20.43	19.40
		1732.5	21.35	20.45	19.35
		1712.5	21.31	20.37	19.34
	100% RB	1752.5	21.33	20.34	19.32
		1732.5	21.25	20.30	19.28
		1712.5	21.24	20.27	19.27
10MHz	1 RB high	1750.0	22.27	21.67	20.55
		1732.5	22.30	21.73	20.46
		1715.0	22.19	21.67	20.32
	1 RB low	1750.0	22.27	21.70	20.37



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	
		1732.5	22.28	21.81	20.47	
		1715.0	22.24	21.47	20.50	
		1750.0	21.30	20.35	19.34	
	50% RB mid		1732.5	21.27	20.31	19.25
			1715.0	21.33	20.31	19.37
			1750.0	21.32	20.30	19.30
	100% RB		1732.5	21.28	20.30	19.29
			1715.0	21.30	20.31	19.30
			1750.0	21.32	20.30	19.30
	15MHz	1 RB high	1747.5	22.09	21.75	20.44
			1732.5	22.20	21.45	20.38
			1717.5	22.15	21.57	20.37
1 RB low			1747.5	22.14	21.54	20.15
			1732.5	22.13	21.28	20.30
			1717.5	22.06	21.64	20.04
50% RB mid			1747.5	21.20	20.21	19.22
			1732.5	21.12	20.11	19.16
			1717.5	21.12	20.21	19.21
100% RB			1747.5	21.24	20.27	19.17
			1732.5	21.16	20.11	19.14
			1717.5	21.14	20.20	19.18
20MHz	1 RB high	1745.0	22.17	21.44	20.32	
		1732.5	22.18	21.55	20.36	
		1720.0	22.10	21.56	20.29	
	1 RB low		1745.0	22.19	21.45	20.50
			1732.5	22.18	21.49	20.23
			1720.0	22.11	21.38	20.24
	50% RB mid		1745.0	21.22	20.25	19.23
			1732.5	21.12	20.15	19.13
			1720.0	21.20	20.22	19.19
	100% RB		1745.0	21.27	20.26	19.24
			1732.5	21.14	20.10	19.15
			1720.0	21.20	20.19	19.18

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



LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.66	22.63	21.63
		836.5	23.55	22.80	21.75
		824.7	23.63	22.84	21.87
	1 RB low	848.3	23.54	22.81	21.62
		836.5	23.38	22.88	21.75
		824.7	23.51	23.08	21.78
	50% RB mid	848.3	23.48	22.62	21.49
		836.5	23.67	22.74	21.72
		824.7	23.55	22.77	21.75
	100% RB	848.3	22.55	21.51	20.64
		836.5	22.51	21.69	20.71
		824.7	22.62	21.66	20.68
3MHz	1 RB high	847.5	23.39	22.74	21.48
		836.5	23.34	22.77	21.67
		825.5	23.43	23.53	21.72
	1 RB low	847.5	23.47	22.85	21.81
		836.5	23.42	22.77	21.73
		825.5	23.46	23.60	21.88
	50% RB mid	847.5	22.49	21.72	20.63
		836.5	22.57	21.70	20.61
		825.5	22.65	21.79	20.68
	100% RB	847.5	22.46	21.54	20.57
		836.5	22.48	21.54	20.47
		825.5	22.50	21.65	20.61
5MHz	1 RB high	846.5	23.44	22.83	21.80
		836.5	23.37	22.83	21.71
		826.5	23.45	22.89	21.70
	1 RB low	846.5	23.44	22.78	21.79
		836.5	23.40	22.72	21.76
		826.5	23.53	22.64	21.75
	50% RB mid	846.5	22.53	21.52	20.70
		836.5	22.54	21.66	20.58
		826.5	22.54	21.60	20.74
	100% RB	846.5	22.46	21.52	20.60
		836.5	22.48	21.45	20.62
		826.5	22.52	21.48	20.63
10MHz	1 RB high	844.0	23.54	22.70	-35.66
		836.5	23.41	22.95	21.88
		829.0	23.45	22.85	21.64
	1 RB low	844.0	23.54	22.81	21.87



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	
		836.5	23.45	22.83	21.74	
		829.0	23.50	22.87	21.80	
		844.0	22.46	21.43	20.56	
	50% RB mid		836.5	22.44	21.47	20.57
			829.0	22.55	21.53	20.66
			844.0	22.33	21.33	20.62
	100% RB		836.5	22.42	21.39	20.54
			829.0	22.63	21.59	20.70
			844.0	22.33	21.33	20.62

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



LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	21.83	21.21	20.10
		2535.0	21.84	21.06	20.06
		2502.5	21.81	21.19	19.92
	1 RB low	2567.5	21.79	21.02	20.15
		2535.0	21.83	21.01	20.15
		2502.5	21.83	20.97	20.04
	50% RB mid	2567.5	20.89	19.94	18.84
		2535.0	20.95	19.95	18.90
		2502.5	20.87	19.84	18.87
	100% RB	2567.5	20.89	19.92	18.83
		2535.0	20.81	19.84	18.79
		2502.5	20.81	19.83	18.79
10MHz	1 RB high	2565.0	21.83	21.07	20.16
		2535.0	21.84	21.46	20.01
		2505.0	21.85	21.10	19.98
	1 RB low	2565.0	21.80	21.13	20.01
		2535.0	21.79	21.00	19.85
		2505.0	21.77	21.14	19.90
	50% RB mid	2565.0	20.91	19.98	18.87
		2535.0	20.86	19.85	18.84
		2505.0	20.84	19.90	18.81
	100% RB	2565.0	20.92	19.90	18.89
		2535.0	20.83	19.84	18.79
		2505.0	20.81	19.88	18.79
15MHz	1 RB high	2562.5	21.66	21.12	20.11
		2535.0	21.76	21.05	20.02
		2507.5	21.81	21.02	19.86
	1 RB low	2562.5	21.61	20.73	19.71
		2535.0	21.59	20.90	19.86
		2507.5	21.58	20.95	19.88
	50% RB mid	2562.5	20.79	19.83	18.76
		2535.0	20.69	19.70	18.68
		2507.5	20.73	19.77	18.76
	100% RB	2562.5	20.79	19.82	18.76
		2535.0	20.70	19.70	18.66
		2507.5	20.74	19.79	18.70
20MHz	1 RB high	2560.0	21.74	21.14	19.95





Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		2535.0	21.72	21.08	19.90
		2510.0	21.73	21.05	19.91
	1 RB low	2560.0	21.59	20.87	19.93
		2535.0	21.57	20.82	19.77
		2510.0	21.51	20.80	19.52
	50% RB mid	2560.0	20.78	19.82	18.79
		2535.0	20.69	19.73	18.73
		2510.0	20.74	19.76	18.80
	100% RB	2560.0	20.77	19.78	18.75
		2535.0	20.73	19.70	18.66
		2510.0	20.75	19.74	18.74

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



LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.12	22.60	21.57
		707.5	23.19	22.57	21.48
		699.7	23.16	22.48	21.16
	1 RB low	715.3	23.18	22.46	21.62
		707.5	23.18	22.53	21.58
		699.7	23.10	22.44	21.39
	50% RB mid	715.3	23.17	22.38	21.46
		707.5	23.23	22.40	21.42
		699.7	23.16	22.31	21.28
	100% RB	715.3	22.24	21.33	20.38
		707.5	22.17	21.18	20.29
		699.7	22.13	21.19	20.30
3MHz	1 RB high	714.5	23.16	22.65	21.55
		707.5	23.24	22.41	21.36
		700.5	23.12	22.39	21.44
	1 RB low	714.5	23.16	22.46	21.39
		707.5	23.17	22.50	21.50
		700.5	23.05	22.35	21.30
	50% RB mid	714.5	22.33	21.38	20.49
		707.5	22.26	21.27	20.32
		700.5	22.26	21.31	20.33
	100% RB	714.5	22.18	21.21	20.29
		707.5	22.26	21.25	20.31
		700.5	22.17	21.22	20.25
5MHz	1 RB high	713.5	23.17	22.85	21.50
		707.5	23.22	22.49	21.37
		701.5	23.17	22.57	21.41
	1 RB low	713.5	23.20	22.59	21.34
		707.5	23.19	22.46	21.46
		701.5	23.11	22.59	21.49
	50% RB mid	713.5	22.34	21.36	20.44
		707.5	22.30	21.36	20.42
		701.5	22.31	21.36	20.34
	100% RB	713.5	22.28	21.30	20.40
		707.5	22.27	21.24	20.29
		701.5	22.29	21.27	20.34
10MHz	1 RB high	711.0	23.31	22.65	21.49



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		707.5	23.28	22.60	21.69
		704.0	23.29	22.77	21.39
	1 RB low	711.0	23.24	22.61	21.52
		707.5	23.18	22.58	21.62
		704.0	23.17	22.38	21.48
	50% RB mid	711.0	22.29	21.32	20.37
		707.5	22.35	21.33	20.41
		704.0	22.33	21.36	20.42
	100% RB	711.0	22.34	21.32	20.42
		707.5	22.30	21.31	20.36
		704.0	22.34	21.34	20.39

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

## LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	23.34	22.69	21.53
		782.0	23.34	22.75	21.74
		779.5	23.3	22.67	21.58
	1 RB low	784.5	23.33	22.61	21.69
		782.0	23.32	22.79	21.71
		779.5	23.24	22.71	21.55
	50% RB mid	784.5	22.32	21.37	20.45
		782.0	22.38	21.41	20.41
		779.5	22.37	21.39	20.43
	100% RB	784.5	22.29	21.32	20.39
		782.0	22.33	21.33	20.44
		779.5	22.35	21.37	20.46
10MHz	1 RB high	782.0	23.36	22.67	21.54
	1 RB low	782.0	23.29	22.65	21.78
	50% RB mid	782.0	22.36	21.38	20.46
	100% RB	782.0	22.32	21.35	20.42

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

## LTE band 17

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	713.5	23.87	22.99	22.05
		710.0	23.83	22.99	22.09
		706.5	23.83	22.92	22.10
	1RB-Low (0)	713.5	23.78	22.90	21.98
		710.0	23.75	22.84	22.06
		706.5	23.77	22.93	22.09
	12RB-Middle (6)	713.5	22.71	21.90	20.90
		710.0	22.73	21.89	20.91
		706.5	22.77	21.96	20.94
	25RB (0)	713.5	22.77	21.92	20.91
		710.0	22.76	21.91	20.90
		706.5	22.79	21.94	20.94
10MHz	1RB-High (49)	711.0	23.92	23.07	22.22
		710.0	23.88	23.03	22.09
		709.0	23.92	23.02	22.08
	1RB-Low (0)	711.0	23.79	23.01	22.12
		710.0	23.81	22.97	22.01
		709.0	23.76	22.90	21.91
	25RB-Middle (12)	711.0	22.78	21.97	20.90
		710.0	22.78	21.95	20.96
		709.0	22.79	21.93	20.90
	50RB (0)	711.0	22.75	21.92	20.88
		710.0	22.73	21.95	20.89
		709.0	22.71	21.90	20.87

 Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 26(814MHz-824MHz)**

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.57	22.66	21.72
		819.0	23.63	22.71	21.81
		814.7	23.46	22.87	21.82
	1 RB low	823.3	23.59	22.65	21.64
		819.0	23.42	22.91	21.85
		814.7	23.51	22.98	21.78
	50% RB mid	823.3	23.55	22.61	21.50
		819.0	23.60	22.77	21.72
		814.7	23.67	22.76	21.78
	100% RB	823.3	22.61	21.58	20.62
		819.0	22.67	21.67	20.67
		814.7	22.68	21.67	20.60
3MHz	1 RB high	822.5	23.39	22.89	21.48
		819.0	23.44	22.86	21.63
		815.5	23.54	23.54	21.73
	1 RB low	822.5	23.37	22.90	21.85
		819.0	23.36	22.79	21.73
		815.5	23.48	23.57	21.89
	50% RB mid	822.5	22.47	21.67	20.64
		819.0	22.64	21.74	20.64
		815.5	22.66	21.78	20.63
	100% RB	822.5	22.53	21.67	20.57
		819.0	22.48	21.59	20.56
		815.5	22.54	21.67	20.56
5MHz	1 RB high	821.5	23.51	22.91	21.73
		819.0	23.55	22.92	21.66
		816.5	23.39	22.83	21.78
	1 RB low	821.5	23.48	22.78	21.79
		819.0	23.47	22.80	21.76
		816.5	23.51	22.66	21.76
	50% RB mid	821.5	22.45	21.45	20.70
		819.0	22.58	21.50	20.58
		816.5	22.63	21.55	20.76
	100% RB	821.5	22.55	21.54	20.66
		819.0	22.48	21.46	20.55
		816.5	22.63	21.65	20.63



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
10MHz	1 RB high	819.0	23.58	22.71	-35.60
		819.0	23.36	22.87	21.98
		819.0	23.42	22.84	21.65
	1 RB low	819.0	23.45	22.75	21.86
		821.5	23.46	22.81	21.74
		819.0	23.49	22.80	21.87
	50% RB mid	816.5	22.39	21.41	20.56
		821.5	22.45	21.47	20.52
		819.0	22.63	21.63	20.59
	100% RB	816.5	22.46	21.39	20.61
		821.5	22.46	21.48	20.64
		819.0	22.57	21.51	20.63

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



**LTE band 26(824MHz-849MHz)**

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.56	22.66	21.62
		836.5	23.55	22.79	21.81
		824.7	23.53	22.91	21.88
	1 RB low	848.3	23.53	22.72	21.61
		836.5	23.46	22.87	21.76
		824.7	23.50	23.04	21.79
	50% RB mid	848.3	23.54	22.66	21.56
		836.5	23.59	22.77	21.71
		824.7	23.59	22.76	21.77
	100% RB	848.3	22.53	21.58	20.63
		836.5	22.59	21.65	20.67
		824.7	22.60	21.68	20.59
3MHz	1 RB high	847.5	23.39	22.79	21.54
		836.5	23.42	22.85	21.66
		825.5	23.48	23.53	21.72
	1 RB low	847.5	23.38	22.84	21.77
		836.5	23.40	22.85	21.72
		825.5	23.47	23.56	21.89
	50% RB mid	847.5	22.47	21.69	20.65
		836.5	22.56	21.70	20.63
		825.5	22.65	21.78	20.65
	100% RB	847.5	22.47	21.57	20.64
		836.5	22.47	21.53	20.55
		825.5	22.54	21.67	20.60
5MHz	1 RB high	846.5	23.43	22.82	21.81
		836.5	23.45	22.91	21.69
		826.5	23.44	22.89	21.76
	1 RB low	846.5	23.38	22.77	21.78
		836.5	23.46	22.80	21.75
		826.5	23.45	22.67	21.74
	50% RB mid	846.5	22.52	21.50	20.69
		836.5	22.48	21.56	20.58
		826.5	22.54	21.59	20.72
	100% RB	846.5	22.46	21.51	20.60
		836.5	22.47	21.44	20.55
		826.5	22.56	21.55	20.64
10MHz	1 RB high	844.0	23.48	22.75	20.58





Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	
		836.5	23.40	22.86	21.88	
		829.0	23.45	22.84	21.65	
		844.0	23.44	22.83	21.85	
	1 RB low	836.5	23.45	22.74	21.74	
		829.0	23.50	22.80	21.85	
		844.0	22.45	21.42	20.55	
	50% RB mid	836.5	22.48	21.46	20.56	
		829.0	22.53	21.59	20.66	
		844.0	22.40	21.39	20.55	
	100% RB	836.5	22.46	21.47	20.58	
		829.0	22.53	21.53	20.66	
		841.5	23.21	22.73	21.68	
	15MHz	1 RB high	836.5	23.23	22.54	21.86
			831.5	23.30	22.66	21.69
			841.5	23.27	22.34	21.58
1 RB low		836.5	23.19	22.54	21.51	
		831.5	23.18	22.47	21.83	
		841.5	22.25	21.29	20.38	
50% RB mid		836.5	22.35	21.31	20.43	
		831.5	22.41	21.40	20.51	
		841.5	22.33	21.31	20.45	
100% RB		836.5	22.28	21.38	20.44	
		831.5	22.39	21.46	20.51	

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



LTE band 38

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2617.5	22.95	22.05	21.07
		2595.0	22.99	21.92	20.96
		2572.5	22.86	21.83	20.75
	1 RB low	2617.5	22.93	22.01	21.06
		2595.0	22.88	22.12	21.17
		2572.5	22.87	21.93	20.91
	50% RB mid	2617.5	22.01	20.95	20.06
		2595.0	21.99	21.03	20.14
		2572.5	21.97	20.98	20.05
	100% RB	2617.5	21.96	20.97	20.09
		2595.0	21.98	21.01	20.08
		2572.5	21.94	20.81	20.00
10MHz	1 RB high	2615.0	22.95	21.96	21.20
		2595.0	22.99	21.99	21.11
		2575.0	22.91	21.91	21.03
	1 RB low	2615.0	22.98	21.87	20.89
		2595.0	22.88	21.98	20.87
		2575.0	22.83	21.88	20.84
	50% RB mid	2615.0	22.00	20.98	20.11
		2595.0	22.00	21.05	20.15
		2575.0	21.94	20.94	20.08
	100% RB	2615.0	22.00	21.00	20.07
		2595.0	21.92	20.93	20.04
		2575.0	21.93	20.93	20.06
15MHz	1 RB high	2612.5	22.78	21.86	20.72
		2595.0	22.71	22.02	20.79
		2577.5	22.65	21.77	20.71
	1 RB low	2612.5	22.78	21.95	20.65
		2595.0	22.68	21.74	21.01
		2577.5	22.74	21.85	20.64
	50% RB mid	2612.5	21.88	20.85	19.95
		2595.0	21.78	20.80	19.88
		2577.5	21.81	20.84	19.91
	100% RB	2612.5	21.87	20.91	19.97
		2595.0	21.79	20.81	19.92
		2577.5	21.84	20.85	19.94



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
20MHz	1 RB high	2610.0	22.73	21.86	20.67
		2595.0	22.75	21.78	20.97
		2580.0	22.73	21.77	20.73
	1 RB low	2610.0	22.81	21.90	20.83
		2595.0	22.69	21.68	20.76
		2580.0	22.81	21.71	20.74
	50% RB mid	2610.0	21.91	20.89	20.00
		2595.0	21.80	20.83	19.89
		2580.0	21.84	20.88	19.97
	100% RB	2610.0	21.88	20.88	20.02
		2595.0	21.84	20.82	19.92
		2580.0	21.87	20.85	19.93

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



LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	23.25	22.27	21.32
		2593.0	23.43	22.49	21.51
		2498.5	23.39	22.48	21.34
	1 RB low	2687.5	23.41	22.50	21.46
		2593.0	23.35	22.47	21.30
		2498.5	23.27	22.21	21.42
	50% RB mid	2687.5	23.38	22.32	21.40
		2593.0	23.42	22.33	21.35
		2498.5	23.36	22.37	21.39
	100% RB	2687.5	23.39	22.34	21.30
		2593.0	22.37	21.35	20.54
		2498.5	22.53	21.50	20.64
10MHz	1 RB high	2685.0	22.47	21.50	20.55
		2593.0	22.54	21.48	20.64
		2501.0	22.47	21.47	20.50
	1 RB low	2685.0	22.32	21.41	20.51
		2593.0	22.51	21.56	20.60
		2501.0	22.40	21.38	20.53
	50% RB mid	2685.0	22.51	21.52	20.62
		2593.0	22.37	21.41	20.49
		2501.0	23.32	22.33	21.40
	100% RB	2685.0	23.47	22.58	21.52
		2593.0	23.35	22.34	21.53
		2501.0	23.54	22.57	21.55
15MHz	1 RB high	2682.5	23.32	22.31	21.51
		2593.0	23.28	22.33	21.29
		2503.5	23.41	22.50	21.46
	1 RB low	2682.5	23.35	22.37	21.35
		2593.0	23.38	22.48	21.40
		2503.5	23.40	22.36	21.34
	50% RB mid	2682.5	22.27	21.33	20.49
		2593.0	22.53	21.51	20.65
		2503.5	22.45	21.48	20.61
	100% RB	2682.5	22.55	21.50	20.66



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
20MHz		2593.0	22.46	21.50	20.53
		2503.5	22.28	21.36	20.39
		2680.0	22.53	21.52	20.67
	1 RB high	2593.0	22.43	21.49	20.59
		2506.0	22.50	21.55	20.63
		2680.0	22.42	21.48	20.60
	1 RB low	2593.0	23.26	22.14	21.26
		2506.0	23.36	22.39	21.44
		2680.0	23.25	22.23	21.15
	50% RB mid	2593.0	23.31	22.45	21.45
		2506.0	23.17	22.18	21.17
		2680.0	23.20	22.24	21.35
	100% RB	2593.0	23.27	22.40	21.22
		2506.0	23.28	22.14	21.41

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



LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	22.75	22.22	20.98
		1745.0	22.79	22.19	21.30
		1710.7	22.72	22.13	20.96
	1 RB low	1779.3	22.82	22.09	21.06
		1745.0	22.80	22.26	21.06
		1710.7	22.65	22.06	21.11
	50% RB mid	1779.3	22.82	21.92	21.07
		1745.0	22.82	22.01	21.11
		1710.7	22.73	21.94	21.02
	100% RB	1779.3	21.85	20.95	19.94
		1745.0	21.84	20.92	20.00
		1710.7	21.79	20.86	19.92
3MHz	1 RB high	1778.5	22.79	22.19	21.28
		1745.0	22.84	22.09	21.21
		1711.5	22.74	22.06	20.95
	1 RB low	1778.5	22.77	22.15	21.04
		1745.0	22.76	22.07	21.30
		1711.5	22.74	21.97	20.99
	50% RB mid	1778.5	21.88	21.00	20.00
		1745.0	21.94	21.05	20.04
		1711.5	21.88	20.86	20.01
	100% RB	1778.5	21.85	20.91	19.96
		1745.0	21.86	20.92	19.97
		1711.5	21.78	20.85	19.90
5MHz	1 RB high	1777.5	22.83	22.15	21.04
		1745.0	22.85	22.17	21.16
		1712.5	22.74	22.03	21.05
	1 RB low	1777.5	22.75	22.19	21.18
		1745.0	22.85	22.18	21.04
		1712.5	22.74	22.17	21.09
	50% RB mid	1777.5	21.93	20.97	20.02
		1745.0	21.94	20.99	20.00
		1712.5	21.85	20.85	19.93
	100% RB	1777.5	21.80	20.81	19.85
		1745.0	21.80	20.82	19.88
		1712.5	21.84	20.85	19.90
10MHz	1 RB high	1775.0	22.86	22.20	21.21



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	
		1745.0	22.79	22.24	21.08	
		1715.0	22.80	22.17	21.15	
		1775.0	22.84	22.24	21.20	
	1 RB low	1745.0	22.82	22.00	21.18	
		1715.0	22.86	22.07	20.99	
		1775.0	21.93	20.97	20.04	
	50% RB mid	1745.0	21.86	20.87	19.90	
		1715.0	21.85	20.91	19.98	
		1775.0	21.91	20.93	20.00	
	100% RB	1745.0	21.84	20.88	19.87	
		1715.0	21.82	20.86	19.87	
		1775.0	22.69	21.92	21.06	
	15MHz	1 RB high	1745.0	22.76	22.05	20.99
			1717.5	22.73	21.93	21.13
			1772.5	22.75	21.95	21.09
1 RB low		1745.0	22.70	21.87	20.93	
		1717.5	22.63	21.99	20.86	
		1772.5	21.79	20.84	19.90	
50% RB mid		1745.0	21.71	20.77	19.77	
		1717.5	21.76	20.72	19.78	
		1772.5	21.81	20.85	19.87	
100% RB		1745.0	21.71	20.75	19.79	
		1717.5	21.70	20.72	19.82	
		1770.0	22.67	22.02	21.09	
20MHz		1 RB high	1745.0	22.74	21.89	20.99
			1720.0	22.70	22.02	20.96
			1770.0	22.77	22.08	21.17
	1 RB low	1745.0	22.79	22.14	21.06	
		1720.0	22.71	22.03	20.79	
		1770.0	21.73	20.75	19.79	
	50% RB mid	1745.0	21.76	20.75	19.80	
		1720.0	21.72	20.74	19.79	
		1770.0	21.76	20.76	19.77	
	100% RB	1745.0	21.73	20.72	19.72	
		1720.0	21.72	20.81	19.80	

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



LTE CA\_7C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)
				Size	Offset	Size	Offset	
10MHz/20M Hz	2525.6	2540.0	QPSK	1	49	1	0	23.49
			QPSK	50	0	100	0	21.56
			16QAM	1	49	1	0	22.43
			16QAM	50	0	100	0	20.58
			64QAM	1	49	1	0	21.47
			64QAM	50	0	100	0	19.59
15MHz/10M Hz	2530.1	2542.1	QPSK	1	74	1	0	21.56
			QPSK	75	0	50	0	19.62
			16QAM	1	74	1	0	21.51
			16QAM	75	0	50	0	19.64
			64QAM	1	74	1	0	21.56
			64QAM	75	0	50	0	19.63
15MHz/15M Hz	2527.5	2542.5	QPSK	1	74	1	0	21.67
			QPSK	75	0	75	0	19.65
			16QAM	1	74	1	0	21.62
			16QAM	75	0	75	0	19.65
			64QAM	1	74	1	0	21.60
			64QAM	75	0	75	0	19.64
15MHz/20M Hz	2525.3	2542.4	QPSK	1	74	1	0	23.55
			QPSK	75	0	100	0	21.63
			16QAM	1	74	1	0	22.54
			16QAM	75	0	100	0	20.64
			64QAM	1	74	1	0	22.56
			64QAM	75	0	100	0	20.63
20MHz/10M Hz	2530.1	2544.5	QPSK	1	99	1	0	23.58
			QPSK	100	0	50	0	21.66
			16QAM	1	99	1	0	22.48
			16QAM	100	0	50	0	20.65
			64QAM	1	99	1	0	22.67
			64QAM	100	0	50	0	20.65
20MHz/15M Hz	2527.6	2544.7	QPSK	1	99	1	0	23.57
			QPSK	100	0	75	0	21.65
			16QAM	1	99	1	0	22.51
			16QAM	100	0	75	0	20.64
			64QAM	1	99	1	0	22.62
			64QAM	100	0	75	0	20.65
20MHz/20M Hz	2525.1	2544.9	QPSK	1	99	1	0	23.60
			QPSK	100	0	100	0	21.64





			16QAM	1	99	1	0	22.46
			16QAM	100	0	100	0	20.65
			64QAM	1	99	1	0	22.60
			64QAM	100	0	100	0	20.64

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

**LTE CA\_38C**

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)
				Size	Offset	Size	Offset	
15MHz/15M Hz	2587.5	2602.5	QPSK	1	74	1	0	23.56
			QPSK	75	0	75	0	21.69
			16QAM	1	74	1	0	22.54
			16QAM	75	0	75	0	20.71
			64QAM	1	74	1	0	21.55
			64QAM	75	0	75	0	19.72
20MHz/20M Hz	2585.1	2604.9	QPSK	1	99	1	0	23.61
			QPSK	100	0	100	0	21.74
			16QAM	1	99	1	0	22.48
			16QAM	100	0	100	0	20.72
			64QAM	1	99	1	0	21.62
			64QAM	100	0	100	0	19.74

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



LTE CA\_41C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2602.2	QPSK	1	24	1	0	24.07
			QPSK	25	0	100	0	22.09
			16QAM	1	24	1	0	23.06
			16QAM	25	0	100	0	21.10
			64QAM	1	24	1	0	22.06
			64QAM	25	0	100	0	20.10
10MHz/15MHz	2585.9	2600.1	QPSK	1	49	1	0	24.06
			QPSK	50	0	75	0	22.14
			16QAM	1	49	1	0	23.10
			16QAM	50	0	75	0	21.14
			64QAM	1	49	1	0	22.00
			64QAM	50	0	75	0	20.13
10MHz/20MHz	2583.6	2602.5	QPSK	1	49	1	0	24.03
			QPSK	50	0	100	0	22.15
			16QAM	1	49	1	0	23.02
			16QAM	50	0	100	0	21.14
			64QAM	1	49	1	0	21.98
			64QAM	50	0	100	0	20.16
15MHz/10MHz	2588.1	2597.9	QPSK	1	74	1	0	24.16
			QPSK	75	0	50	0	22.18
			16QAM	1	74	1	0	23.09
			16QAM	75	0	50	0	21.19
			64QAM	1	74	1	0	22.07
			64QAM	75	0	50	0	20.19
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	24.12
			QPSK	75	0	75	0	22.18
			16QAM	1	74	1	0	23.07
			16QAM	75	0	75	0	21.18
			64QAM	1	74	1	0	22.06
			64QAM	75	0	75	0	20.22
15MHz/20MHz	2583.3	2602.7	QPSK	1	74	1	0	24.11
			QPSK	75	0	100	0	22.17
			16QAM	1	74	1	0	22.98
			16QAM	75	0	100	0	21.20
			64QAM	1	74	1	0	22.08
			64QAM	75	0	100	0	20.17
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	24.11
			QPSK	100	0	25	0	22.22



			16QAM	1	99	1	0	23.17
			16QAM	100	0	25	0	21.21
			64QAM	1	99	1	0	22.13
			64QAM	100	0	25	0	20.23
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	24.15
			QPSK	100	0	50	0	22.21
			16QAM	1	99	1	0	23.01
			16QAM	100	0	50	0	21.23
			64QAM	1	99	1	0	22.17
			64QAM	100	0	50	0	20.25
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	24.22
			QPSK	100	0	75	0	22.25
			16QAM	1	99	1	0	23.15
			16QAM	100	0	75	0	21.25
			64QAM	1	99	1	0	22.12
			64QAM	100	0	75	0	20.23
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.14
			QPSK	100	0	100	0	22.23
			16QAM	1	99	1	0	23.07
			16QAM	100	0	100	0	21.24
			64QAM	1	99	1	0	22.16
			64QAM	100	0	100	0	20.22

### A.1.3 Radiated

#### A.1.3.1 Description

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

For B2: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."

For B4/66: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".

For B5/26(824MHz-849MHz) :Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

For B7/38/41:Rule Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

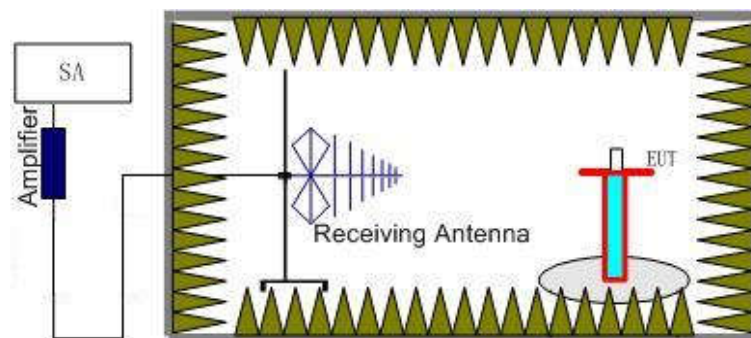
For B12/17:Rule Part 27.50(c) specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

For B13Rule :Part 27.50(b) specifies "Portable stations (hand-held devices) transmitting in the 776–788 MHz bands are limited to 3 watts ERP."

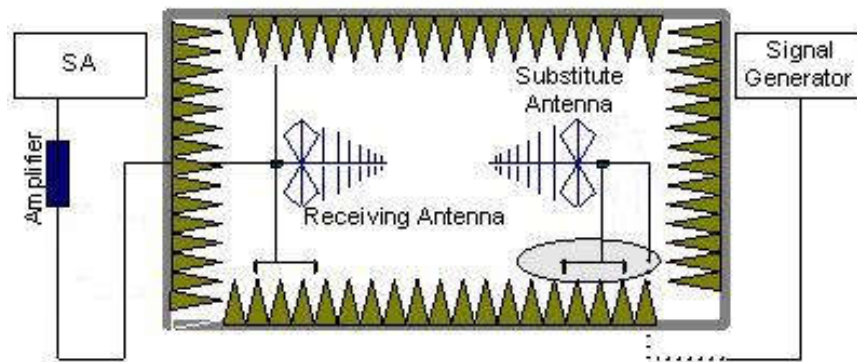
For B26(814MHz-824MHz) :Rule Part 90.635 specifies "The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ."

#### 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.



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:

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

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (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.1.3.3 Measurement result**

**Upper antenna**

**LTE Band 2- EIRP Part 24. 232(c)**

**Limits:** ≤33dBm (2W)

**LTE Band 2\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-15.56	-29.30	8.10	21.84	33.00	H
1880.00	-15.95	-29.40	8.10	21.55	33.00	H
1909.30	-15.66	-29.30	8.10	21.74	33.00	H

**LTE Band 2\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-16.18	-29.30	8.10	21.22	33.00	H
1880.00	-16.13	-29.40	8.10	21.37	33.00	H
1908.50	-15.91	-29.30	8.10	21.49	33.00	H

**LTE Band 2\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-15.81	-29.30	8.10	21.59	33.00	H
1880.00	-16.25	-29.40	8.10	21.25	33.00	H
1907.50	-16.07	-29.30	8.10	21.33	33.00	H

**LTE Band 2\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-15.60	-29.30	8.10	21.80	33.00	H
1880.00	-15.81	-29.40	8.10	21.69	33.00	H
1905.00	-15.77	-29.30	8.10	21.63	33.00	H

**LTE Band 2\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-15.70	-29.30	8.10	21.70	33.00	H
1880.00	-15.66	-29.40	8.10	21.84	33.00	H
1902.50	-15.85	-29.30	8.10	21.55	33.00	H

**LTE Band 2\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-15.66	-29.30	8.10	21.74	33.00	H
1880.00	-15.67	-29.40	8.10	21.83	33.00	H
1900.00	-15.41	-29.30	8.10	21.99	33.00	H

**LTE Band 2\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.08	-29.30	8.10	20.32	33.00	H
1880.00	-17.04	-29.40	8.10	20.46	33.00	H
1909.30	-16.91	-29.30	8.10	20.49	33.00	H

**LTE Band 2\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.16	-29.30	8.10	20.24	33.00	H
1880.00	-17.25	-29.40	8.10	20.25	33.00	H
1908.50	-17.09	-29.30	8.10	20.31	33.00	H

**LTE Band 2\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-16.46	-29.30	8.10	20.94	33.00	H
1880.00	-16.42	-29.40	8.10	21.07	33.00	H
1907.50	-16.36	-29.30	8.10	21.04	33.00	H

**LTE Band 2\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-16.53	-29.30	8.10	20.87	33.00	H
1880.00	-16.54	-29.40	8.10	20.96	33.00	H
1905.00	-16.31	-29.30	8.10	21.09	33.00	H

**LTE Band 2\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-16.72	-29.30	8.10	20.68	33.00	H
1880.00	-16.78	-29.40	8.10	20.72	33.00	H
1902.50	-16.46	-29.30	8.10	20.94	33.00	H

**LTE Band 2\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-16.86	-29.30	8.10	20.54	33.00	H
1880.00	-16.92	-29.40	8.10	20.58	33.00	H
1900.00	-16.61	-29.30	8.10	20.79	33.00	H

**LTE Band 2\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.30	-29.30	8.10	20.10	33.00	H
1880.00	-17.14	-29.40	8.10	20.36	33.00	H
1909.30	-16.94	-29.30	8.10	20.46	33.00	H

**LTE Band 2\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.54	-29.30	8.10	19.86	33.00	H
1880.00	-17.63	-29.40	8.10	19.87	33.00	H
1908.50	-17.26	-29.30	8.10	20.14	33.00	H

**LTE Band 2\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.79	-29.30	8.10	19.61	33.00	H
1880.00	-17.75	-29.40	8.10	19.75	33.00	H
1907.50	-17.69	-29.30	8.10	19.71	33.00	H

**LTE Band 2\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.91	-29.30	8.10	19.49	33.00	H
1880.00	-17.92	-29.40	8.10	19.58	33.00	H
1905.00	-17.78	-29.30	8.10	19.62	33.00	H

**LTE Band 2\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-18.01	-29.30	8.10	19.39	33.00	H
1880.00	-18.07	-29.40	8.10	19.43	33.00	H
1902.50	-17.95	-29.30	8.10	19.45	33.00	H

**LTE Band 2\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-18.20	-29.30	8.10	19.20	33.00	H
1880.00	-18.26	-29.40	8.10	19.24	33.00	H
1900.00	-18.15	-29.30	8.10	19.25	33.00	H



**LTE Band 4- EIRP Part 27.50(d)(4)**

Limits: ≤30dBm (1W)

**LTE Band 4\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.23	-29.60	8.10	21.47	30.00	H
1732.50	-16.45	-29.60	8.10	21.25	30.00	H
1754.30	-15.89	-29.50	8.10	21.71	30.00	H

**LTE Band 4\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.44	-29.60	8.10	21.26	30.00	H
1732.50	-15.62	-29.60	8.10	22.08	30.00	H
1753.50	-16.14	-29.50	8.10	21.46	30.00	H

**LTE Band 4\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-15.78	-29.60	8.10	21.92	30.00	H
1732.50	-15.74	-29.60	8.10	21.96	30.00	H
1752.50	-16.30	-29.50	8.10	21.30	30.00	H

**LTE Band 4\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-15.76	-29.60	8.10	21.94	30.00	H
1732.50	-15.90	-29.60	8.10	21.80	30.00	H
1750.00	-16.40	-29.50	8.10	21.20	30.00	H

**LTE Band 4\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-15.77	-29.60	8.10	21.93	30.00	H
1732.50	-16.06	-29.60	8.10	21.64	30.00	H
1747.50	-15.88	-29.50	8.10	21.72	30.00	H

**LTE Band 4\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-15.93	-29.60	8.10	21.77	30.00	H
1732.50	-16.16	-29.60	8.10	21.54	30.00	H
1745.00	-15.64	-29.50	8.10	21.96	30.00	H

**LTE Band 4\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.35	-29.60	8.10	21.35	30.00	H
1732.50	-16.54	-29.60	8.10	21.16	30.00	H
1754.30	-16.14	-29.50	8.10	21.46	30.00	H

**LTE Band 4\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.43	-29.60	8.10	21.27	30.00	H
1732.50	-16.75	-29.60	8.10	20.95	30.00	H
1753.50	-16.32	-29.50	8.10	21.28	30.00	H

**LTE Band 4\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-16.73	-29.60	8.10	20.97	30.00	H
1732.50	-16.92	-29.60	8.10	20.78	30.00	H
1752.50	-16.59	-29.50	8.10	21.01	30.00	H

**LTE Band 4\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-16.80	-29.60	8.10	20.90	30.00	H
1732.50	-17.04	-29.60	8.10	20.66	30.00	H
1750.00	-16.54	-29.50	8.10	21.06	30.00	H

**LTE Band 4\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-16.98	-29.60	8.10	20.72	30.00	H
1732.50	-17.27	-29.60	8.10	20.43	30.00	H
1747.50	-16.69	-29.50	8.10	20.91	30.00	H

**LTE Band 4\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.12	-29.60	8.10	20.58	30.00	H
1732.50	-17.41	-29.60	8.10	20.29	30.00	H
1745.00	-16.84	-29.50	8.10	20.76	30.00	H

**LTE Band 4\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-17.57	-29.60	8.10	20.13	30.00	H
1732.50	-17.64	-29.60	8.10	20.06	30.00	H
1754.30	-17.16	-29.50	8.10	20.43	30.00	H

**LTE Band 4\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-17.81	-29.60	8.10	19.89	30.00	H
1732.50	-18.12	-29.60	8.10	19.57	30.00	H
1753.50	-17.49	-29.50	8.10	20.11	30.00	H

**LTE Band 4\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.05	-29.60	8.10	19.64	30.00	H
1732.50	-18.25	-29.60	8.10	19.45	30.00	H
1752.50	-17.91	-29.50	8.10	19.68	30.00	H

**LTE Band 4\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.18	-29.60	8.10	19.52	30.00	H
1732.50	-18.41	-29.60	8.10	19.29	30.00	H
1750.00	-18.01	-29.50	8.10	19.59	30.00	H

**LTE Band 4\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.28	-29.60	8.10	19.42	30.00	H
1732.50	-18.57	-29.60	8.10	19.13	30.00	H
1747.50	-18.18	-29.50	8.10	19.42	30.00	H

**LTE Band 4\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.47	-29.60	8.10	19.23	30.00	H
1732.50	-18.76	-29.60	8.10	18.94	30.00	H
1745.00	-18.38	-29.50	8.10	19.22	30.00	H

**LTE Band 5- ERP Part 22.913(a)****Limits:** ≤38.45dBm (7W)**LTE Band 5\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.42	-33.60	-0.79	2.15	21.23	38.45	V
836.50	-9.19	-33.50	-0.74	2.15	21.43	38.45	V
848.30	-8.97	-33.50	-0.73	2.15	21.65	38.45	V

**LTE Band 5\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.55	-33.60	-0.84	2.15	21.06	38.45	V
836.50	-9.36	-33.50	-0.74	2.15	21.25	38.45	V
847.50	-9.17	-33.50	-0.73	2.15	21.44	38.45	V

**LTE Band 5\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-8.63	-33.60	-0.84	2.15	21.98	38.45	V
836.50	-9.48	-33.50	-0.74	2.15	21.14	38.45	V
846.50	-9.28	-33.50	-0.73	2.15	21.34	38.45	V

**LTE Band 5\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-8.71	-33.60	-0.84	2.15	21.90	38.45	V
836.50	-9.55	-33.50	-0.74	2.15	21.07	38.45	V
844.00	-9.33	-33.50	-0.78	2.15	21.24	38.45	V

**LTE Band 5\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-10.44	-33.60	-0.79	2.15	20.21	38.45	V
836.50	-10.20	-33.50	-0.74	2.15	20.41	38.45	V
848.30	-10.12	-33.50	-0.73	2.15	20.50	38.45	V

**LTE Band 5\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-10.54	-33.60	-0.84	2.15	20.07	38.45	V
836.50	-10.39	-33.50	-0.74	2.15	20.23	38.45	V
847.50	-10.25	-33.50	-0.73	2.15	20.37	38.45	V

**LTE Band 5\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.67	-33.60	-0.84	2.15	20.93	38.45	V
836.50	-10.55	-33.50	-0.74	2.15	20.06	38.45	V
846.50	-10.28	-33.50	-0.73	2.15	20.33	38.45	V

**LTE Band 5\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.74	-33.60	-0.84	2.15	20.86	38.45	V
836.50	-10.58	-33.50	-0.74	2.15	20.03	38.45	V
844.00	-10.36	-33.50	-0.78	2.15	20.21	38.45	V

**LTE Band 5\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-11.46	-33.60	-0.79	2.15	19.20	38.45	V
836.50	-11.30	-33.50	-0.74	2.15	19.31	38.45	V
848.30	-11.14	-33.50	-0.73	2.15	19.48	38.45	V

**LTE Band 5\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-11.52	-33.60	-0.84	2.15	19.09	38.45	V
836.50	-11.40	-33.50	-0.74	2.15	19.22	38.45	V
847.50	-11.13	-33.50	-0.73	2.15	19.49	38.45	V

**LTE Band 5\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-10.70	-33.60	-0.84	2.15	19.91	38.45	V
836.50	-11.58	-33.50	-0.74	2.15	19.04	38.45	V
846.50	-11.21	-33.50	-0.73	2.15	19.41	38.45	V

**LTE Band 5\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-10.82	-33.60	-0.84	2.15	19.79	38.45	V
836.50	-10.66	-33.50	-0.74	2.15	19.96	38.45	V
844.00	-11.44	-33.50	-0.78	2.15	19.13	38.45	V

**LTE Band 7- EIRP Part 27.50(h)(2)****Limits:** ≤33 dBm (2W)**LTE Band 7\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-17.67	-28.70	10.70	21.73	33.00	H
2535.00	-18.00	-28.60	10.70	21.30	33.00	H
2567.50	-17.86	-28.60	10.70	21.44	33.00	H

**LTE Band 7\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-17.58	-28.70	10.70	21.82	33.00	H
2535.00	-17.42	-28.60	10.70	21.88	33.00	H
2565.00	-17.56	-28.60	10.70	21.74	33.00	H

**LTE Band 7\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-17.66	-28.70	10.70	21.74	33.00	H
2535.00	-17.41	-28.60	10.70	21.89	33.00	H
2562.50	-17.38	-28.60	10.70	21.92	33.00	H

**LTE Band 7\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-17.96	-28.70	10.70	21.44	33.00	H
2535.00	-17.56	-28.60	10.70	21.74	33.00	H
2560.00	-17.52	-28.60	10.70	21.78	33.00	H

**LTE Band 7\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-18.34	-28.70	10.70	21.06	33.00	H
2535.00	-19.14	-28.60	10.70	20.16	33.00	H
2567.50	-18.77	-28.60	10.70	20.53	33.00	H

**LTE Band 7\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-18.75	-28.70	10.70	20.65	33.00	H
2535.00	-18.45	-28.60	10.70	20.85	33.00	H
2565.00	-18.44	-28.60	10.70	20.86	33.00	H

**LTE Band 7\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-18.40	-28.70	10.70	21.00	33.00	H
2535.00	-18.30	-28.60	10.70	21.00	33.00	H
2562.50	-18.16	-28.60	10.70	21.14	33.00	H

**LTE Band 7\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-18.93	-28.70	10.70	20.47	33.00	H
2535.00	-18.61	-28.60	10.70	20.69	33.00	H
2560.00	-18.49	-28.60	10.70	20.81	33.00	H



**LTE Band 7\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-19.24	-28.70	10.70	20.16	33.00	H
2535.00	-19.05	-28.60	10.70	20.25	33.00	H
2567.50	-18.73	-28.60	10.70	20.57	33.00	H

**LTE Band 7\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-19.62	-28.70	10.70	19.78	33.00	H
2535.00	-19.36	-28.60	10.70	19.94	33.00	H
2565.00	-19.23	-28.60	10.70	20.07	33.00	H

**LTE Band 7\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-19.50	-28.70	10.70	19.90	33.00	H
2535.00	-19.47	-28.60	10.70	19.83	33.00	H
2562.50	-19.41	-28.60	10.70	19.89	33.00	H

**LTE Band 7\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-19.82	-28.70	10.70	19.58	33.00	H
2535.00	-19.31	-28.60	10.70	19.99	33.00	H
2560.00	-19.50	-28.60	10.70	19.80	33.00	H

**LTE Band 12 - ERP Part 27.50(c)(10)****Limits:** ≤34.77dBm (3W)**LTE Band 12\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-10.58	-34.80	-0.93	2.15	21.14	34.77	V
707.50	-10.01	-34.70	-0.91	2.15	21.63	34.77	V
715.30	-10.35	-34.70	-0.68	2.15	21.51	34.77	V

**LTE Band 12\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-9.72	-34.80	-0.97	2.15	21.96	34.77	V
707.50	-10.19	-34.70	-0.91	2.15	21.45	34.77	V
714.50	-10.60	-34.70	-0.64	2.15	21.30	34.77	V

**LTE Band 12\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-9.80	-34.80	-0.97	2.15	21.89	34.77	V
707.50	-10.30	-34.70	-0.91	2.15	21.34	34.77	V
713.50	-10.70	-34.70	-0.64	2.15	21.20	34.77	V

**LTE Band 12\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-9.88	-34.80	-0.97	2.15	21.80	34.77	V
707.50	-10.37	-34.70	-0.91	2.15	21.27	34.77	V
711.00	-10.80	-34.70	-0.64	2.15	21.10	34.77	V



**LTE Band 12\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-11.60	-34.80	-0.93	2.15	20.12	34.77	V
707.50	-11.03	-34.70	-0.91	2.15	20.62	34.77	V
715.30	-11.51	-34.70	-0.68	2.15	20.36	34.77	V

**LTE Band 12\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-11.71	-34.80	-0.97	2.15	19.98	34.77	V
707.50	-11.22	-34.70	-0.91	2.15	20.43	34.77	V
714.50	-11.68	-34.70	-0.64	2.15	20.23	34.77	V

**LTE Band 12\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-11.84	-34.80	-0.97	2.15	19.84	34.77	V
707.50	-11.38	-34.70	-0.91	2.15	20.27	34.77	V
713.50	-11.71	-34.70	-0.64	2.15	20.20	34.77	V

**LTE Band 12\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-10.91	-34.80	-0.97	2.15	20.77	34.77	V
707.50	-11.41	-34.70	-0.91	2.15	20.24	34.77	V
711.00	-11.84	-34.70	-0.64	2.15	20.07	34.77	V

**LTE Band 12\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-12.62	-34.80	-0.93	2.15	19.10	34.77	V
707.50	-12.13	-34.70	-0.91	2.15	19.52	34.77	V
715.30	-12.53	-34.70	-0.68	2.15	19.34	34.77	V

**LTE Band 12\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-12.08	-34.80	-0.97	2.15	19.60	34.77	V
707.50	-12.22	-34.70	-0.91	2.15	19.42	34.77	V
714.50	-12.56	-34.70	-0.64	2.15	19.35	34.77	V

**LTE Band 12\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-11.87	-34.80	-0.97	2.15	19.81	34.77	V
707.50	-12.40	-34.70	-0.91	2.15	19.24	34.77	V
713.50	-12.64	-34.70	-0.64	2.15	19.27	34.77	V

**LTE Band 12\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-11.99	-34.80	-0.97	2.15	19.69	34.77	V
707.50	-12.48	-34.70	-0.91	2.15	19.16	34.77	V
711.00	-11.92	-34.70	-0.64	2.15	19.99	34.77	V



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

**Limits:** ≤34.77dBm (3W)

**LTE Band 13\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-10.18	-34.00	-0.08	2.15	21.59	34.77	V
782.00	-9.94	-34.00	-0.13	2.15	21.78	34.77	V
784.50	-10.12	-34.00	-0.13	2.15	21.60	34.77	V

**LTE Band 13\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-10.35	-34.00	-0.13	2.15	21.37	34.77	V

**LTE Band 13\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-11.27	-34.00	-0.08	2.15	20.50	34.77	V
782.00	-11.13	-34.00	-0.13	2.15	20.59	34.77	V
784.50	-11.26	-34.00	-0.13	2.15	20.46	34.77	V

**LTE Band 13\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-11.22	-34.00	-0.13	2.15	20.50	34.77	V

**LTE Band 13\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-12.14	-34.00	-0.08	2.15	19.63	34.77	V
782.00	-12.00	-34.00	-0.13	2.15	19.72	34.77	V
784.50	-12.13	-34.00	-0.13	2.15	19.59	34.77	V

**LTE Band 13\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-12.11	-34.00	-0.13	2.15	19.61	34.77	V



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

**Limits:** ≤34.77dBm (3W)

**LTE Band 17\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-9.90	-34.70	-0.91	2.15	21.75	34.77	V
710.00	-10.90	-34.70	-0.64	2.15	21.00	34.77	V
713.50	-10.10	-34.70	-0.64	2.15	21.81	34.77	V

**LTE Band 17\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-10.07	-34.70	-0.91	2.15	21.57	34.77	V
710.00	-10.08	-34.70	-0.64	2.15	21.82	34.77	V
711.00	-10.30	-34.70	-0.64	2.15	21.60	34.77	V

**LTE Band 17\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-10.92	-34.70	-0.91	2.15	20.73	34.77	V
710.00	-10.92	-34.70	-0.64	2.15	20.99	34.77	V
713.50	-11.25	-34.70	-0.64	2.15	20.66	34.77	V

**LTE Band 17\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.06	-34.70	-0.91	2.15	20.58	34.77	V
710.00	-11.11	-34.70	-0.64	2.15	20.80	34.77	V
711.00	-11.38	-34.70	-0.64	2.15	20.52	34.77	V

**LTE Band 17\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.94	-34.70	-0.91	2.15	19.71	34.77	V
710.00	-12.02	-34.70	-0.64	2.15	19.89	34.77	V
713.50	-12.27	-34.70	-0.64	2.15	19.64	34.77	V

**LTE Band 17\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-12.04	-34.70	-0.91	2.15	19.61	34.77	V
710.00	-12.11	-34.70	-0.64	2.15	19.79	34.77	V
711.00	-12.26	-34.70	-0.64	2.15	19.65	34.77	V

**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 <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.47	-33.60	-0.79	2.15	21.19	38.45	H
836.50	-9.18	-33.50	-0.74	2.15	21.43	38.45	H
848.30	-9.57	-33.50	-0.73	2.15	21.05	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.64	-33.60	-0.79	2.15	21.01	38.45	H
836.50	-9.36	-33.50	-0.74	2.15	21.25	38.45	H
847.50	-8.78	-33.50	-0.73	2.15	21.84	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-8.72	-33.60	-0.79	2.15	21.94	38.45	H
836.50	-9.47	-33.50	-0.74	2.15	21.14	38.45	H
846.50	-8.88	-33.50	-0.73	2.15	21.74	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-8.80	-33.60	-0.79	2.15	21.85	38.45	H
836.50	-9.54	-33.50	-0.74	2.15	21.07	38.45	H
844.00	-8.98	-33.50	-0.73	2.15	21.64	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-8.91	-33.60	-0.79	2.15	21.75	38.45	H
836.50	-9.02	-33.50	-0.74	2.15	21.60	38.45	H
841.50	-9.05	-33.50	-0.73	2.15	21.56	38.45	H



**LTE Band 26(824MHz-849MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-10.49	-33.60	-0.79	2.15	20.17	38.45	H
836.50	-10.20	-33.50	-0.74	2.15	20.42	38.45	H
848.30	-9.72	-33.50	-0.73	2.15	20.90	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-10.63	-33.60	-0.79	2.15	20.03	38.45	H
836.50	-10.38	-33.50	-0.74	2.15	20.23	38.45	H
847.50	-9.85	-33.50	-0.73	2.15	20.76	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.77	-33.60	-0.79	2.15	20.89	38.45	H
836.50	-10.55	-33.50	-0.74	2.15	20.07	38.45	H
846.50	-9.89	-33.50	-0.73	2.15	20.73	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.84	-33.60	-0.79	2.15	20.82	38.45	H
836.50	-10.58	-33.50	-0.74	2.15	20.04	38.45	H
844.00	-10.01	-33.50	-0.73	2.15	20.60	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-10.02	-33.60	-0.79	2.15	20.64	38.45	H
836.50	-9.73	-33.50	-0.74	2.15	20.89	38.45	H
841.50	-10.17	-33.50	-0.73	2.15	20.45	38.45	H



**LTE Band 26(824MHz-849MHz)\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-11.51	-33.60	-0.79	2.15	19.15	38.45	H
836.50	-11.30	-33.50	-0.74	2.15	19.32	38.45	H
848.30	-10.74	-33.50	-0.73	2.15	19.88	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-11.61	-33.60	-0.79	2.15	19.05	38.45	H
836.50	-11.39	-33.50	-0.74	2.15	19.22	38.45	H
847.50	-10.73	-33.50	-0.73	2.15	19.89	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-10.79	-33.60	-0.79	2.15	19.86	38.45	H
836.50	-11.57	-33.50	-0.74	2.15	19.04	38.45	H
846.50	-10.81	-33.50	-0.73	2.15	19.80	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-10.91	-33.60	-0.79	2.15	19.74	38.45	H
836.50	-10.65	-33.50	-0.74	2.15	19.96	38.45	H
844.00	-11.09	-33.50	-0.73	2.15	19.53	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-11.03	-33.60	-0.79	2.15	19.63	38.45	H
836.50	-10.73	-33.50	-0.74	2.15	19.88	38.45	H
841.50	-11.17	-33.50	-0.73	2.15	19.45	38.45	H



**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 <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-8.93	-33.70	-0.80	2.15	21.82	50.00	H
819.00	-9.12	-33.60	-0.75	2.15	21.59	50.00	H
823.30	-9.42	-33.60	-0.79	2.15	21.24	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-9.10	-33.70	-0.80	2.15	21.65	50.00	H
819.00	-9.29	-33.60	-0.75	2.15	21.41	50.00	H
822.50	-9.63	-33.60	-0.79	2.15	21.03	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-9.18	-33.70	-0.80	2.15	21.57	50.00	H
819.00	-9.40	-33.60	-0.75	2.15	21.30	50.00	H
821.50	-8.73	-33.60	-0.79	2.15	21.93	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-9.16	-33.60	-0.80	2.15	21.49	50.00	H
819.00	-9.47	-33.60	-0.75	2.15	21.23	50.00	H
819.00	-8.83	-33.60	-0.79	2.15	21.83	50.00	H



**LTE Band 26(814MHz-824MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-9.95	-33.70	-0.80	2.15	20.80	50.00	H
819.00	-10.13	-33.60	-0.75	2.15	20.57	50.00	H
823.30	-10.57	-33.60	-0.79	2.15	20.09	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-10.09	-33.70	-0.80	2.15	20.66	50.00	H
819.00	-10.32	-33.60	-0.75	2.15	20.39	50.00	H
822.50	-9.70	-33.60	-0.79	2.15	20.95	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-10.23	-33.70	-0.80	2.15	20.52	50.00	H
819.00	-10.48	-33.60	-0.75	2.15	20.22	50.00	H
821.50	-9.73	-33.60	-0.79	2.15	20.92	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-10.20	-33.60	-0.80	2.15	20.45	50.00	H
819.00	-10.51	-33.60	-0.75	2.15	20.20	50.00	H
819.00	-9.86	-33.60	-0.79	2.15	20.79	50.00	H

**LTE Band 26(814MHz-824MHz)\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-10.97	-33.70	-0.80	2.15	19.78	50.00	H
819.00	-11.23	-33.60	-0.75	2.15	19.48	50.00	H
823.30	-12.59	-33.60	-0.79	2.15	18.07	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-12.07	-33.70	-0.80	2.15	18.68	50.00	H
819.00	-12.33	-33.60	-0.75	2.15	18.38	50.00	H
822.50	-12.58	-33.60	-0.79	2.15	18.08	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-12.25	-33.70	-0.80	2.15	18.50	50.00	H
819.00	-12.51	-33.60	-0.75	2.15	18.20	50.00	H
821.50	-12.66	-33.60	-0.79	2.15	18.00	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-12.27	-33.60	-0.80	2.15	18.38	50.00	H
819.00	-12.59	-33.60	-0.75	2.15	18.12	50.00	H
819.00	-12.94	-33.60	-0.79	2.15	17.72	50.00	H

**LTE Band 38 - EIRP Part 27.50(h)(2)****Limits:** ≤33dBm (2W)**LTE Band 38\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-17.92	-28.60	10.70	21.38	33.00	H
2595.00	-17.62	-28.60	10.70	21.68	33.00	H
2617.50	-17.66	-28.60	10.70	21.64	33.00	H

**LTE Band 38\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-17.44	-28.60	10.70	21.86	33.00	H
2595.00	-17.90	-28.60	10.70	21.40	33.00	H
2615.00	-17.96	-28.60	10.70	21.34	33.00	H

**LTE Band 38\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-17.33	-28.60	10.70	21.97	33.00	H
2595.00	-17.37	-28.60	10.70	21.93	33.00	H
2612.50	-17.35	-28.60	10.70	21.95	33.00	H

**LTE Band 38\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-17.61	-28.60	10.70	21.69	33.00	H
2595.00	-17.48	-28.60	10.70	21.82	33.00	H
2610.00	-17.42	-28.60	10.70	21.88	33.00	H

**LTE Band 38\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-18.99	-28.60	10.70	20.31	33.00	H
2595.00	-18.76	-28.60	10.70	20.54	33.00	H
2617.50	-18.57	-28.60	10.70	20.73	33.00	H

**LTE Band 38\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-18.41	-28.60	10.70	20.89	33.00	H
2595.00	-19.13	-28.60	10.70	20.17	33.00	H
2615.00	-18.25	-28.60	10.70	21.05	33.00	H

**LTE Band 38\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-19.07	-28.60	10.70	20.23	33.00	H
2595.00	-18.96	-28.60	10.70	20.34	33.00	H
2612.50	-19.13	-28.60	10.70	20.17	33.00	H

**LTE Band 38\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-18.58	-28.60	10.70	20.72	33.00	H
2595.00	-18.73	-28.60	10.70	20.57	33.00	H
2610.00	-18.29	-28.60	10.70	21.01	33.00	H

**LTE Band 38\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-19.89	-28.60	10.70	19.41	33.00	H
2595.00	-19.67	-28.60	10.70	19.63	33.00	H
2617.50	-19.53	-28.60	10.70	19.77	33.00	H

**LTE Band 38\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-19.28	-28.60	10.70	20.02	33.00	H
2595.00	-20.04	-28.60	10.70	19.26	33.00	H
2615.00	-20.04	-28.60	10.70	19.26	33.00	H

**LTE Band 38\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-19.17	-28.60	10.70	20.13	33.00	H
2595.00	-19.14	-28.60	10.70	20.16	33.00	H
2612.50	-19.38	-28.60	10.70	19.92	33.00	H

**LTE Band 38\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-19.47	-28.60	10.70	19.83	33.00	H
2595.00	-19.63	-28.60	10.70	19.67	33.00	H
2610.00	-19.10	-28.60	10.70	20.20	33.00	H

**LTE Band 41- EIRP Part 27.50(d)(2)**Limits:  $\leq 33\text{dBm}$  (2W)**LTE Band 41\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-17.89	-28.70	10.70	21.51	33.00	H
2593.00	-17.72	-28.60	10.70	21.58	33.00	H
2687.50	-17.62	-28.60	10.70	21.68	33.00	H

**LTE Band 41\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-18.17	-28.70	10.70	21.23	33.00	H
2593.00	-17.93	-28.60	10.70	21.37	33.00	H
2685.00	-17.94	-28.60	10.70	21.36	33.00	H

**LTE Band 41\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-17.58	-28.70	10.70	21.82	33.00	H
2593.00	-17.63	-28.60	10.70	21.67	33.00	H
2682.50	-17.66	-28.60	10.70	21.64	33.00	H

**LTE Band 41\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-17.56	-28.70	10.70	21.84	33.00	H
2593.00	-17.48	-28.60	10.70	21.82	33.00	H
2680.00	-17.33	-28.60	10.70	21.97	33.00	H



**LTE Band 41\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-19.06	-28.70	10.70	20.34	33.00	H
2593.00	-18.79	-28.60	10.70	20.51	33.00	H
2687.50	-18.59	-28.60	10.70	20.71	33.00	H

**LTE Band 41\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-18.46	-28.70	10.70	20.94	33.00	H
2593.00	-19.12	-28.60	10.70	20.18	33.00	H
2685.00	-19.15	-28.60	10.70	20.15	33.00	H

**LTE Band 41\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-18.27	-28.70	10.70	21.13	33.00	H
2593.00	-18.19	-28.60	10.70	21.11	33.00	H
2682.50	-18.99	-28.60	10.70	20.31	33.00	H

**LTE Band 41\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-18.67	-28.70	10.70	20.73	33.00	H
2593.00	-18.49	-28.60	10.70	20.81	33.00	H
2680.00	-18.52	-28.60	10.70	20.78	33.00	H

**LTE Band 41\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-18.99	-28.70	10.70	20.41	33.00	H
2593.00	-18.79	-28.60	10.70	20.51	33.00	H
2687.50	-18.50	-28.60	10.70	20.80	33.00	H

**LTE Band 41\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-19.23	-28.70	10.70	20.17	33.00	H
2593.00	-19.09	-28.60	10.70	20.21	33.00	H
2685.00	-19.10	-28.60	10.70	20.20	33.00	H

**LTE Band 41\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-19.37	-28.70	10.70	20.03	33.00	H
2593.00	-19.40	-28.60	10.70	19.90	33.00	H
2682.50	-19.34	-28.60	10.70	19.96	33.00	H

**LTE Band 41\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-19.58	-28.70	10.70	19.82	33.00	H
2593.00	-19.48	-28.60	10.70	19.82	33.00	H
2680.00	-19.36	-28.60	10.70	19.94	33.00	H

**LTE Band 66- EIRP Part 27.50(d)(4)**

Limits: ≤30dBm (1W)

**LTE Band 66\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.33	-29.60	8.10	21.37	30.00	H
1745.00	-15.88	-29.50	8.10	21.72	30.00	H
1779.30	-16.35	-29.50	8.10	21.25	30.00	H

**LTE Band 66\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.54	-29.60	8.10	21.16	30.00	H
1745.00	-16.06	-29.50	8.10	21.54	30.00	H
1778.50	-15.60	-29.50	8.10	22.00	30.00	H

**LTE Band 66\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-15.68	-29.60	8.10	22.02	30.00	H
1745.00	-16.18	-29.50	8.10	21.42	30.00	H
1777.50	-15.76	-29.50	8.10	21.84	30.00	H

**LTE Band 66\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-15.76	-29.60	8.10	21.94	30.00	H
1745.00	-16.34	-29.50	8.10	21.26	30.00	H
1775.00	-15.86	-29.50	8.10	21.74	30.00	H

**LTE Band 66\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-15.87	-29.60	8.10	21.83	30.00	H
1745.00	-15.50	-29.50	8.10	22.10	30.00	H
1772.53	-15.94	-29.50	8.10	21.66	30.00	H

**LTE Band 66\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-16.03	-29.60	8.10	21.67	30.00	H
1745.00	-15.80	-29.50	8.10	21.80	30.00	H
1770.00	-16.11	-29.50	8.10	21.49	30.00	H

**LTE Band 66\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.45	-29.60	8.10	21.25	30.00	H
1745.00	-15.97	-29.50	8.10	21.62	30.00	H
1779.30	-16.61	-29.50	8.10	20.99	30.00	H

**LTE Band 66\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.53	-29.60	8.10	21.17	30.00	H
1745.00	-16.18	-29.50	8.10	21.42	30.00	H
1778.50	-16.78	-29.50	8.10	20.82	30.00	H

**LTE Band 66\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-16.83	-29.60	8.10	20.87	30.00	H
1745.00	-16.36	-29.50	8.10	21.24	30.00	H
1777.50	-17.05	-29.50	8.10	20.55	30.00	H

**LTE Band 66\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-16.90	-29.60	8.10	20.80	30.00	H
1745.00	-16.48	-29.50	8.10	21.12	30.00	H
1775.00	-17.00	-29.50	8.10	20.60	30.00	H

**LTE Band 66\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-17.08	-29.60	8.10	20.62	30.00	H
1745.00	-16.71	-29.50	8.10	20.89	30.00	H
1772.53	-17.15	-29.50	8.10	20.45	30.00	H

**LTE Band 66\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.22	-29.60	8.10	20.48	30.00	H
1745.00	-16.85	-29.50	8.10	20.75	30.00	H
1770.00	-17.30	-29.50	8.10	20.30	30.00	H

**LTE Band 66\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-17.66	-29.60	8.10	20.04	30.00	H
1745.00	-17.08	-29.50	8.10	20.52	30.00	H
1779.30	-17.63	-29.50	8.10	19.97	30.00	H

**LTE Band 66\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-17.91	-29.60	8.10	19.79	30.00	H
1745.00	-17.56	-29.50	8.10	20.04	30.00	H
1778.50	-17.95	-29.50	8.10	19.64	30.00	H

**LTE Band 66\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.15	-29.60	8.10	19.55	30.00	H
1745.00	-17.68	-29.50	8.10	19.92	30.00	H
1777.50	-18.38	-29.50	8.10	19.22	30.00	H

**LTE Band 66\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.27	-29.60	8.10	19.43	30.00	H
1745.00	-17.85	-29.50	8.10	19.75	30.00	H
1775.00	-18.47	-29.50	8.10	19.13	30.00	H

**LTE Band 66\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.37	-29.60	8.10	19.33	30.00	H
1745.00	-18.00	-29.50	8.10	19.60	30.00	H
1772.53	-18.65	-29.50	8.10	18.95	30.00	H

**LTE Band 66\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.56	-29.60	8.10	19.14	30.00	H
1745.00	-18.19	-29.50	8.10	19.41	30.00	H
1770.00	-18.84	-29.50	8.10	18.76	30.00	H



**LTE Band CA\_7C - EIRP Part 27.50(h)(2)**

**Limits:** ≤33 dBm (2W)

**LTE Band CA\_7C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-18.04	-28.70	10.70	21.36	33.00	V
2525.60	2501.00	-16.77	-28.60	10.70	22.53	33.00	V
2545.60	2560.00	-17.22	-28.60	10.70	22.08	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-18.14	-28.70	10.70	21.26	33.00	H
2530.10	2542.10	-16.88	-28.60	10.70	22.42	33.00	H
2552.70	2564.70	-17.32	-28.60	10.70	21.98	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-18.14	-28.70	10.70	21.26	33.00	H
2527.50	2503.50	-16.88	-28.60	10.70	22.42	33.00	H
2547.50	2562.50	-17.32	-28.60	10.70	21.98	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-18.20	-28.70	10.70	21.20	33.00	H
2525.30	2542.40	-16.93	-28.60	10.70	22.37	33.00	H
2542.90	2560.00	-17.38	-28.60	10.70	21.92	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-18.07	-28.70	10.70	21.33	33.00	H
2530.10	2544.50	-16.80	-28.60	10.70	22.50	33.00	H
2550.10	2564.50	-17.25	-28.60	10.70	22.05	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-18.10	-28.70	10.70	21.30	33.00	H
2527.60	2544.70	-16.83	-28.60	10.70	22.47	33.00	H
2545.10	2562.20	-17.28	-28.60	10.70	22.02	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-18.11	-28.70	10.70	21.29	33.00	H
2525.10	2544.90	-16.84	-28.60	10.70	22.46	33.00	H
2540.20	2560.00	-17.29	-28.60	10.70	22.01	33.00	H

**LTE Band CA\_7C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-19.15	-28.70	10.70	20.25	33.00	V
2525.60	2501.00	-17.88	-28.60	10.70	21.42	33.00	V
2545.60	2560.00	-18.33	-28.60	10.70	20.97	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-19.20	-28.70	10.70	20.20	33.00	H
2530.10	2542.10	-17.93	-28.60	10.70	21.37	33.00	H
2552.70	2564.70	-18.38	-28.60	10.70	20.92	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-19.16	-28.70	10.70	20.24	33.00	H
2527.50	2503.50	-17.90	-28.60	10.70	21.40	33.00	H
2547.50	2562.50	-18.34	-28.60	10.70	20.96	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-19.24	-28.70	10.70	20.16	33.00	H
2525.30	2542.40	-17.97	-28.60	10.70	21.33	33.00	H
2542.90	2560.00	-18.42	-28.60	10.70	20.88	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-19.14	-28.70	10.70	20.26	33.00	H
2530.10	2544.50	-17.87	-28.60	10.70	21.43	33.00	H
2550.10	2564.50	-18.32	-28.60	10.70	20.98	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-19.17	-28.70	10.70	20.23	33.00	H
2527.60	2544.70	-17.90	-28.60	10.70	21.40	33.00	H
2545.10	2562.20	-18.34	-28.60	10.70	20.96	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-19.17	-28.70	10.70	20.23	33.00	H
2525.10	2544.90	-17.90	-28.60	10.70	21.40	33.00	H
2540.20	2560.00	-18.35	-28.60	10.70	20.95	33.00	H

**LTE Band CA\_7C\_10MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-20.20	-28.70	10.70	19.20	33.00	V
2525.60	2501.00	-18.93	-28.60	10.70	20.37	33.00	V
2545.60	2560.00	-19.38	-28.60	10.70	19.92	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-20.26	-28.70	10.70	19.14	33.00	H
2530.10	2542.10	-18.99	-28.60	10.70	20.31	33.00	H
2552.70	2564.70	-19.44	-28.60	10.70	19.86	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-20.19	-28.70	10.70	19.21	33.00	H
2527.50	2503.50	-18.92	-28.60	10.70	20.38	33.00	H
2547.50	2562.50	-19.37	-28.60	10.70	19.93	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-20.28	-28.70	10.70	19.12	33.00	H
2525.30	2542.40	-19.01	-28.60	10.70	20.29	33.00	H
2542.90	2560.00	-19.46	-28.60	10.70	19.84	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-20.21	-28.70	10.70	19.19	33.00	H
2530.10	2544.50	-18.95	-28.60	10.70	20.35	33.00	H
2550.10	2564.50	-19.39	-28.60	10.70	19.91	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-20.31	-28.70	10.70	19.09	33.00	H
2527.60	2544.70	-19.04	-28.60	10.70	20.26	33.00	H
2545.10	2562.20	-19.49	-28.60	10.70	19.81	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-20.23	-28.70	10.70	19.17	33.00	H
2525.10	2544.90	-18.96	-28.60	10.70	20.34	33.00	H
2540.20	2560.00	-19.41	-28.60	10.70	19.89	33.00	H





**LTE CA\_38C - EIRP Part 27.50(h)(2)**

**Limits:** ≤33dBm (2W)

**LTE Band CA\_38C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-17.70	-28.70	10.70	21.70	33.00	V
2587.50	2602.50	-17.19	-28.60	10.70	22.11	33.00	V
2597.50	2612.50	-17.63	-28.50	10.70	21.57	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-17.84	-28.70	10.70	21.56	33.00	V
2585.10	2604.90	-17.33	-28.60	10.70	21.97	33.00	V
2590.20	2610.00	-17.87	-28.60	10.70	21.43	33.00	V

**LTE Band CA\_38C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-18.75	-28.70	10.70	20.65	33.00	V
2587.50	2602.50	-18.24	-28.60	10.70	21.06	33.00	V
2597.50	2612.50	-18.68	-28.50	10.70	20.52	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-18.90	-28.70	10.70	20.50	33.00	V
2585.10	2604.90	-18.39	-28.60	10.70	20.91	33.00	V
2590.20	2610.00	-18.93	-28.60	10.70	20.37	33.00	V

**LTE Band CA\_38C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-19.89	-28.70	10.70	19.51	33.00	V
2587.50	2602.50	-19.38	-28.60	10.70	19.92	33.00	V
2597.50	2612.50	-19.82	-28.50	10.70	19.38	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-20.07	-28.70	10.70	19.33	33.00	V
2585.10	2604.90	-19.56	-28.60	10.70	19.74	33.00	V
2590.20	2610.00	-20.10	-28.60	10.70	19.20	33.00	V



**LTE Band CA\_41C - EIRP Part 27.50(d)(2)**

**Limits:** ≤33dBm (2W)

**LTE Band CA\_41C\_5MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-18.28	-28.70	10.70	21.12	33.00	V
2585.80	2597.50	-17.49	-28.60	10.70	21.81	33.00	V
2633.30	2680.00	-17.01	-28.50	10.70	22.19	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-18.55	-28.70	10.70	20.85	33.00	V
2587.90	2599.90	-17.84	-28.60	10.70	21.46	33.00	V
2635.50	2682.50	-17.47	-28.60	10.70	21.83	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-18.31	-28.70	10.70	21.09	33.00	V
2585.60	2600.00	-17.52	-28.60	10.70	21.78	33.00	V
2630.60	2680.00	-17.14	-28.60	10.70	22.16	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-18.53	-28.70	10.70	20.87	33.00	H
2590.10	2602.10	-17.82	-28.60	10.70	21.48	33.00	H
2637.70	2649.70	-17.45	-28.60	10.70	21.85	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-18.46	-28.70	10.70	20.94	33.00	H
2587.50	2602.50	-17.75	-28.60	10.70	21.55	33.00	H
2632.50	2682.50	-17.37	-28.60	10.70	21.93	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-18.30	-28.70	10.70	21.10	33.00	H
2585.30	2602.40	-17.51	-28.60	10.70	21.79	33.00	H
2627.90	2680.00	-17.14	-28.60	10.70	22.16	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-18.42	-28.70	10.70	20.98	33.00	H
2592.50	2604.20	-17.63	-28.60	10.70	21.67	33.00	H
2640.00	2651.70	-17.26	-28.60	10.70	22.04	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-18.39	-28.70	10.70	21.01	33.00	H
2590.10	2604.50	-17.59	-28.60	10.70	21.71	33.00	H
2635.10	2649.50	-17.22	-28.60	10.70	22.08	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-18.41	-28.70	10.70	20.99	33.00	H
2587.60	2604.70	-17.61	-28.60	10.70	21.69	33.00	H
2630.10	2647.20	-17.24	-28.60	10.70	22.06	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-18.48	-28.70	10.70	20.92	33.00	H
2585.10	2604.90	-17.76	-28.60	10.70	21.54	33.00	H
2625.20	2680.00	-17.39	-28.60	10.70	21.91	33.00	H

**LTE Band CA\_41C\_5MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-19.33	-28.70	10.70	20.07	33.00	V
2585.80	2597.50	-18.53	-28.60	10.70	20.77	33.00	V
2633.30	2680.00	-18.06	-28.50	10.70	21.14	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-19.60	-28.70	10.70	19.80	33.00	V
2587.90	2599.90	-18.89	-28.60	10.70	20.41	33.00	V
2635.50	2682.50	-18.51	-28.60	10.70	20.79	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-19.36	-28.70	10.70	20.04	33.00	V
2585.60	2600.00	-18.56	-28.60	10.70	20.74	33.00	V
2630.60	2680.00	-18.19	-28.60	10.70	21.11	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-19.57	-28.70	10.70	19.83	33.00	H
2590.10	2602.10	-18.86	-28.60	10.70	20.44	33.00	H
2637.70	2649.70	-18.48	-28.60	10.70	20.82	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-19.50	-28.70	10.70	19.90	33.00	H
2587.50	2602.50	-18.79	-28.60	10.70	20.51	33.00	H
2632.50	2682.50	-18.42	-28.60	10.70	20.88	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-19.36	-28.70	10.70	20.04	33.00	H
2585.30	2602.40	-18.56	-28.60	10.70	20.74	33.00	H
2627.90	2680.00	-18.19	-28.60	10.70	21.11	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-19.52	-28.70	10.70	19.88	33.00	H
2592.50	2604.20	-18.72	-28.60	10.70	20.58	33.00	H
2640.00	2651.70	-18.35	-28.60	10.70	20.95	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-19.43	-28.70	10.70	19.97	33.00	H
2590.10	2604.50	-18.63	-28.60	10.70	20.67	33.00	H
2635.10	2649.50	-18.26	-28.60	10.70	21.04	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-19.52	-28.70	10.70	19.88	33.00	H
2587.60	2604.70	-18.72	-28.60	10.70	20.58	33.00	H
2630.10	2647.20	-18.34	-28.60	10.70	20.96	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-19.52	-28.70	10.70	19.88	33.00	H
2585.10	2604.90	-18.81	-28.60	10.70	20.49	33.00	H
2625.20	2680.00	-18.44	-28.60	10.70	20.86	33.00	H

**LTE Band CA\_41C\_5MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-20.37	-28.70	10.70	19.03	33.00	V
2585.80	2597.50	-19.57	-28.60	10.70	19.73	33.00	V
2633.30	2680.00	-19.10	-28.50	10.70	20.10	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-20.64	-28.70	10.70	18.76	33.00	V
2587.90	2599.90	-19.94	-28.60	10.70	19.36	33.00	V
2635.50	2682.50	-19.56	-28.60	10.70	19.74	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-20.41	-28.70	10.70	18.99	33.00	V
2585.60	2600.00	-19.61	-28.60	10.70	19.69	33.00	V
2630.60	2680.00	-19.24	-28.60	10.70	20.06	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-20.61	-28.70	10.70	18.79	33.00	H
2590.10	2602.10	-19.90	-28.60	10.70	19.40	33.00	H
2637.70	2649.70	-19.52	-28.60	10.70	19.78	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-20.55	-28.70	10.70	18.85	33.00	H
2587.50	2602.50	-19.84	-28.60	10.70	19.46	33.00	H
2632.50	2682.50	-19.46	-28.60	10.70	19.84	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-20.42	-28.70	10.70	18.98	33.00	H
2585.30	2602.40	-19.62	-28.60	10.70	19.68	33.00	H
2627.90	2680.00	-19.25	-28.60	10.70	20.05	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-20.61	-28.70	10.70	18.79	33.00	H
2592.50	2604.20	-19.81	-28.60	10.70	19.49	33.00	H
2640.00	2651.70	-19.44	-28.60	10.70	19.86	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-20.47	-28.70	10.70	18.93	33.00	H
2590.10	2604.50	-19.67	-28.60	10.70	19.63	33.00	H
2635.10	2649.50	-19.30	-28.60	10.70	20.00	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-19.62	-28.70	10.70	19.78	33.00	H
2587.60	2604.70	-19.76	-28.60	10.70	19.54	33.00	H
2630.10	2647.20	-19.44	-28.60	10.70	19.86	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-20.57	-28.70	10.70	18.83	33.00	H
2585.10	2604.90	-19.86	-28.60	10.70	19.44	33.00	H
2625.20	2680.00	-19.48	-28.60	10.70	19.82	33.00	H

**Lower antenna****LTE Band 2- EIRP Part 24. 232(c)**

Limits: ≤33dBm (2W)

**LTE Band 2\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-16.03	-29.30	8.10	21.37	33.00	H
1880.00	-15.95	-29.40	8.10	21.55	33.00	H
1909.30	-15.61	-29.30	8.10	21.79	33.00	H

**LTE Band 2\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-16.24	-29.30	8.10	21.16	33.00	H
1880.00	-16.12	-29.40	8.10	21.38	33.00	H
1908.50	-15.85	-29.30	8.10	21.55	33.00	H

**LTE Band 2\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-15.38	-29.30	8.10	22.02	33.00	H
1880.00	-16.25	-29.40	8.10	21.25	33.00	H
1907.50	-16.02	-29.30	8.10	21.38	33.00	H

**LTE Band 2\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-15.46	-29.30	8.10	21.94	33.00	H
1880.00	-15.41	-29.40	8.10	22.09	33.00	H
1905.00	-16.12	-29.30	8.10	21.28	33.00	H

**LTE Band 2\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-15.57	-29.30	8.10	21.83	33.00	H
1880.00	-15.56	-29.40	8.10	21.94	33.00	H
1902.50	-16.19	-29.30	8.10	21.21	33.00	H

**LTE Band 2\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-15.73	-29.30	8.10	21.67	33.00	H
1880.00	-15.66	-29.40	8.10	21.84	33.00	H
1900.00	-15.36	-29.30	8.10	22.04	33.00	H



**LTE Band 2\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-16.15	-29.30	8.10	21.25	33.00	H
1880.00	-16.04	-29.40	8.10	21.46	33.00	H
1909.30	-15.86	-29.30	8.10	21.54	33.00	H

**LTE Band 2\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-16.23	-29.30	8.10	21.17	33.00	H
1880.00	-16.25	-29.40	8.10	21.25	33.00	H
1908.50	-16.03	-29.30	8.10	21.37	33.00	H

**LTE Band 2\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-16.53	-29.30	8.10	20.87	33.00	H
1880.00	-16.42	-29.40	8.10	21.08	33.00	H
1907.50	-16.30	-29.30	8.10	21.10	33.00	H

**LTE Band 2\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-16.60	-29.30	8.10	20.80	33.00	H
1880.00	-16.54	-29.40	8.10	20.96	33.00	H
1905.00	-16.25	-29.30	8.10	21.15	33.00	H

**LTE Band 2\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-16.78	-29.30	8.10	20.62	33.00	H
1880.00	-16.77	-29.40	8.10	20.73	33.00	H
1902.50	-16.41	-29.30	8.10	20.99	33.00	H

**LTE Band 2\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-16.92	-29.30	8.10	20.48	33.00	H
1880.00	-16.91	-29.40	8.10	20.59	33.00	H
1900.00	-16.55	-29.30	8.10	20.85	33.00	H

**LTE Band 2\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.37	-29.30	8.10	20.03	33.00	H
1880.00	-17.14	-29.40	8.10	20.36	33.00	H
1909.30	-16.88	-29.30	8.10	20.52	33.00	H

**LTE Band 2\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.61	-29.30	8.10	19.79	33.00	H
1880.00	-17.63	-29.40	8.10	19.87	33.00	H
1908.50	-17.21	-29.30	8.10	20.19	33.00	H

**LTE Band 2\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.86	-29.30	8.10	19.54	33.00	H
1880.00	-17.75	-29.40	8.10	19.75	33.00	H
1907.50	-17.63	-29.30	8.10	19.77	33.00	H

**LTE Band 2\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.98	-29.30	8.10	19.42	33.00	H
1880.00	-17.92	-29.40	8.10	19.58	33.00	H
1905.00	-17.73	-29.30	8.10	19.67	33.00	H

**LTE Band 2\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-18.08	-29.30	8.10	19.32	33.00	H
1880.00	-18.07	-29.40	8.10	19.43	33.00	H
1902.50	-17.90	-29.30	8.10	19.50	33.00	H

**LTE Band 2\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-18.27	-29.30	8.10	19.13	33.00	H
1880.00	-18.26	-29.40	8.10	19.24	33.00	H
1900.00	-18.10	-29.30	8.10	19.30	33.00	H

**LTE Band 4- EIRP Part 27.50(d)(4)**

Limits: ≤30dBm (1W)

**LTE Band 4\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.41	-29.60	8.10	21.29	30.00	H
1732.50	-16.19	-29.60	8.10	21.51	30.00	H
1754.30	-16.23	-29.50	8.10	21.37	30.00	H

**LTE Band 4\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-15.62	-29.60	8.10	22.08	30.00	H
1732.50	-16.37	-29.60	8.10	21.33	30.00	H
1753.50	-15.48	-29.50	8.10	22.12	30.00	H

**LTE Band 4\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-15.76	-29.60	8.10	21.94	30.00	H
1732.50	-16.49	-29.60	8.10	21.21	30.00	H
1752.50	-15.65	-29.50	8.10	21.95	30.00	H

**LTE Band 4\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-15.84	-29.60	8.10	21.86	30.00	H
1732.50	-15.65	-29.60	8.10	22.05	30.00	H
1750.00	-15.75	-29.50	8.10	21.85	30.00	H

**LTE Band 4\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-15.95	-29.60	8.10	21.75	30.00	H
1732.50	-15.81	-29.60	8.10	21.89	30.00	H
1747.50	-15.82	-29.50	8.10	21.78	30.00	H

**LTE Band 4\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-16.11	-29.60	8.10	21.59	30.00	H
1732.50	-15.91	-29.60	8.10	21.79	30.00	H
1745.00	-15.99	-29.50	8.10	21.61	30.00	H

**LTE Band 4\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.53	-29.60	8.10	21.17	30.00	H
1732.50	-16.29	-29.60	8.10	21.41	30.00	H
1754.30	-16.49	-29.50	8.10	21.11	30.00	H

**LTE Band 4\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.61	-29.60	8.10	21.09	30.00	H
1732.50	-16.50	-29.60	8.10	21.20	30.00	H
1753.50	-16.66	-29.50	8.10	20.94	30.00	H

**LTE Band 4\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-16.91	-29.60	8.10	20.79	30.00	H
1732.50	-16.67	-29.60	8.10	21.03	30.00	H
1752.50	-16.93	-29.50	8.10	20.67	30.00	H

**LTE Band 4\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-16.98	-29.60	8.10	20.72	30.00	H
1732.50	-16.79	-29.60	8.10	20.91	30.00	H
1750.00	-16.88	-29.50	8.10	20.72	30.00	H

**LTE Band 4\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-17.16	-29.60	8.10	20.54	30.00	H
1732.50	-17.02	-29.60	8.10	20.68	30.00	H
1747.50	-17.03	-29.50	8.10	20.57	30.00	H

**LTE Band 4\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.30	-29.60	8.10	20.40	30.00	H
1732.50	-17.16	-29.60	8.10	20.54	30.00	H
1745.00	-17.18	-29.50	8.10	20.42	30.00	H

**LTE Band 4\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-17.74	-29.60	8.10	19.96	30.00	H
1732.50	-17.39	-29.60	8.10	20.31	30.00	H
1754.30	-17.51	-29.50	8.10	20.09	30.00	H

**LTE Band 4\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-17.99	-29.60	8.10	19.71	30.00	H
1732.50	-17.87	-29.60	8.10	19.83	30.00	H
1753.50	-17.84	-29.50	8.10	19.76	30.00	H

**LTE Band 4\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.23	-29.60	8.10	19.47	30.00	H
1732.50	-18.00	-29.60	8.10	19.70	30.00	H
1752.50	-18.26	-29.50	8.10	19.34	30.00	H

**LTE Band 4\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.35	-29.60	8.10	19.35	30.00	H
1732.50	-18.16	-29.60	8.10	19.54	30.00	H
1750.00	-18.36	-29.50	8.10	19.24	30.00	H

**LTE Band 4\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.45	-29.60	8.10	19.25	30.00	H
1732.50	-18.31	-29.60	8.10	19.39	30.00	H
1747.50	-18.53	-29.50	8.10	19.07	30.00	H

**LTE Band 4\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.64	-29.60	8.10	19.06	30.00	H
1732.50	-18.51	-29.60	8.10	19.20	30.00	H
1745.00	-18.73	-29.50	8.10	18.88	30.00	H

**LTE Band 5- ERP Part 22.913(a)****Limits:** ≤38.45dBm (7W)**LTE Band 5\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.04	-33.60	-0.79	2.15	21.61	38.45	V
836.50	-9.18	-33.50	-0.74	2.15	21.43	38.45	V
848.30	-9.39	-33.50	-0.73	2.15	21.23	38.45	V

**LTE Band 5\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.17	-33.60	-0.84	2.15	21.44	38.45	V
836.50	-9.36	-33.50	-0.74	2.15	21.26	38.45	V
847.50	-9.60	-33.50	-0.73	2.15	21.02	38.45	V

**LTE Band 5\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.25	-33.60	-0.84	2.15	21.36	38.45	V
836.50	-9.47	-33.50	-0.74	2.15	21.15	38.45	V
846.50	-9.70	-33.50	-0.73	2.15	20.92	38.45	V

**LTE Band 5\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.33	-33.60	-0.84	2.15	21.28	38.45	V
836.50	-9.54	-33.50	-0.74	2.15	21.08	38.45	V
844.00	-9.75	-33.50	-0.78	2.15	20.82	38.45	V

**LTE Band 5\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-10.06	-33.60	-0.79	2.15	20.59	38.45	V
836.50	-10.19	-33.50	-0.74	2.15	20.42	38.45	V
848.30	-10.54	-33.50	-0.73	2.15	20.08	38.45	V

**LTE Band 5\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-10.16	-33.60	-0.84	2.15	20.45	38.45	V
836.50	-10.38	-33.50	-0.74	2.15	20.23	38.45	V
847.50	-10.67	-33.50	-0.73	2.15	19.94	38.45	V

**LTE Band 5\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-10.29	-33.60	-0.84	2.15	20.32	38.45	V
836.50	-10.54	-33.50	-0.74	2.15	20.07	38.45	V
846.50	-10.71	-33.50	-0.73	2.15	19.91	38.45	V

**LTE Band 5\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-10.36	-33.60	-0.84	2.15	20.25	38.45	V
836.50	-10.57	-33.50	-0.74	2.15	20.04	38.45	V
844.00	-10.78	-33.50	-0.78	2.15	19.78	38.45	V

**LTE Band 5\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-11.08	-33.60	-0.79	2.15	19.58	38.45	V
836.50	-11.29	-33.50	-0.74	2.15	19.32	38.45	V
848.30	-11.56	-33.50	-0.73	2.15	19.05	38.45	V

**LTE Band 5\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-11.13	-33.60	-0.84	2.15	19.48	38.45	V
836.50	-11.39	-33.50	-0.74	2.15	19.23	38.45	V
847.50	-11.55	-33.50	-0.73	2.15	19.07	38.45	V

**LTE Band 5\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-11.32	-33.60	-0.84	2.15	19.29	38.45	V
836.50	-11.57	-33.50	-0.74	2.15	19.04	38.45	V
846.50	-11.63	-33.50	-0.73	2.15	18.98	38.45	V

**LTE Band 5\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-11.44	-33.60	-0.84	2.15	19.17	38.45	V
836.50	-11.65	-33.50	-0.74	2.15	18.96	38.45	V
844.00	-11.86	-33.50	-0.78	2.15	18.71	38.45	V



**LTE Band 7- EIRP Part 27.50(h)(2)**Limits:  $\leq 33$  dBm (2W)**LTE Band 7\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-18.23	-28.70	10.70	21.17	33.00	H
2535.00	-18.01	-28.60	10.70	21.29	33.00	H
2567.50	-17.75	-28.60	10.70	21.55	33.00	H

**LTE Band 7\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-17.54	-28.70	10.70	21.86	33.00	H
2535.00	-17.23	-28.60	10.70	22.07	33.00	H
2565.00	-18.05	-28.60	10.70	21.25	33.00	H

**LTE Band 7\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-17.62	-28.70	10.70	21.78	33.00	H
2535.00	-17.42	-28.60	10.70	21.88	33.00	H
2562.50	-18.07	-28.60	10.70	21.23	33.00	H

**LTE Band 7\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-17.92	-28.70	10.70	21.48	33.00	H
2535.00	-17.57	-28.60	10.70	21.73	33.00	H
2560.00	-17.41	-28.60	10.70	21.89	33.00	H

**LTE Band 7\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-18.30	-28.70	10.70	21.10	33.00	H
2535.00	-18.15	-28.60	10.70	21.15	33.00	H
2567.50	-17.66	-28.60	10.70	21.64	33.00	H

**LTE Band 7\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-18.71	-28.70	10.70	20.69	33.00	H
2535.00	-18.46	-28.60	10.70	20.84	33.00	H
2565.00	-18.33	-28.60	10.70	20.97	33.00	H

**LTE Band 7\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-18.36	-28.70	10.70	21.04	33.00	H
2535.00	-18.31	-28.60	10.70	20.99	33.00	H
2562.50	-18.05	-28.60	10.70	21.25	33.00	H

**LTE Band 7\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-18.89	-28.70	10.70	20.51	33.00	H
2535.00	-18.62	-28.60	10.70	20.68	33.00	H
2560.00	-18.38	-28.60	10.70	20.92	33.00	H

**LTE Band 7\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-19.20	-28.70	10.70	20.20	33.00	H
2535.00	-19.06	-28.60	10.70	20.24	33.00	H
2567.50	-18.62	-28.60	10.70	20.68	33.00	H

**LTE Band 7\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-19.58	-28.70	10.70	19.82	33.00	H
2535.00	-19.37	-28.60	10.70	19.93	33.00	H
2565.00	-19.12	-28.60	10.70	20.18	33.00	H

**LTE Band 7\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-19.46	-28.70	10.70	19.94	33.00	H
2535.00	-19.48	-28.60	10.70	19.82	33.00	H
2562.50	-19.30	-28.60	10.70	20.00	33.00	H

**LTE Band 7\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-19.78	-28.70	10.70	19.62	33.00	H
2535.00	-19.32	-28.60	10.70	19.98	33.00	H
2560.00	-18.99	-28.60	10.70	20.31	33.00	H

**LTE Band 12 - ERP Part 27.50(c)(10)****Limits:** ≤34.77dBm (3W)**LTE Band 12\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-10.59	-34.80	-0.93	2.15	21.12	34.77	V
707.50	-9.77	-34.70	-0.91	2.15	21.87	34.77	V
715.30	-10.22	-34.70	-0.68	2.15	21.65	34.77	V

**LTE Band 12\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-9.73	-34.80	-0.97	2.15	21.95	34.77	V
707.50	-9.95	-34.70	-0.91	2.15	21.69	34.77	V
714.50	-10.46	-34.70	-0.64	2.15	21.44	34.77	V

**LTE Band 12\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-9.81	-34.80	-0.97	2.15	21.87	34.77	V
707.50	-10.06	-34.70	-0.91	2.15	21.58	34.77	V
713.50	-10.57	-34.70	-0.64	2.15	21.34	34.77	V

**LTE Band 12\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-9.89	-34.80	-0.97	2.15	21.79	34.77	V
707.50	-10.13	-34.70	-0.91	2.15	21.51	34.77	V
711.00	-10.67	-34.70	-0.64	2.15	21.24	34.77	V

**LTE Band 12\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-11.61	-34.80	-0.93	2.15	20.11	34.77	V
707.50	-11.79	-34.70	-0.91	2.15	19.86	34.77	V
715.30	-11.37	-34.70	-0.68	2.15	20.50	34.77	V

**LTE Band 12\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-11.72	-34.80	-0.97	2.15	19.96	34.77	V
707.50	-11.98	-34.70	-0.91	2.15	19.67	34.77	V
714.50	-11.54	-34.70	-0.64	2.15	20.36	34.77	V

**LTE Band 12\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-11.85	-34.80	-0.97	2.15	19.83	34.77	V
707.50	-11.14	-34.70	-0.91	2.15	20.51	34.77	V
713.50	-11.57	-34.70	-0.64	2.15	20.33	34.77	V

**LTE Band 12\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-11.92	-34.80	-0.97	2.15	19.76	34.77	V
707.50	-11.17	-34.70	-0.91	2.15	20.48	34.77	V
711.00	-11.70	-34.70	-0.64	2.15	20.20	34.77	V

**LTE Band 12\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-12.63	-34.80	-0.93	2.15	19.09	34.77	V
707.50	-12.89	-34.70	-0.91	2.15	18.76	34.77	V
715.30	-13.39	-34.70	-0.68	2.15	18.48	34.77	V

**LTE Band 12\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-12.70	-34.80	-0.97	2.15	18.99	34.77	V
707.50	-12.98	-34.70	-0.91	2.15	18.66	34.77	V
714.50	-13.42	-34.70	-0.64	2.15	18.49	34.77	V

**LTE Band 12\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-12.88	-34.80	-0.97	2.15	18.80	34.77	V
707.50	-13.16	-34.70	-0.91	2.15	18.48	34.77	V
713.50	-13.50	-34.70	-0.64	2.15	18.41	34.77	V

**LTE Band 12\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-13.00	-34.80	-0.97	2.15	18.68	34.77	V
707.50	-13.24	-34.70	-0.91	2.15	18.40	34.77	V
711.00	-13.78	-34.70	-0.64	2.15	18.13	34.77	V



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

**Limits:** ≤34.77dBm (3W)

**LTE Band 13\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-10.18	-34.00	-0.08	2.15	21.59	34.77	V
782.00	-10.03	-34.00	-0.13	2.15	21.69	34.77	V
784.50	-9.99	-34.00	-0.13	2.15	21.74	34.77	V

**LTE Band 13\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-10.14	-34.00	-0.13	2.15	21.58	34.77	V

**LTE Band 13\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-11.57	-34.00	-0.08	2.15	20.20	34.77	V
782.00	-11.32	-34.00	-0.13	2.15	20.40	34.77	V
784.50	-11.13	-34.00	-0.13	2.15	20.60	34.77	V

**LTE Band 13\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-11.41	-34.00	-0.13	2.15	20.31	34.77	V

**LTE Band 13\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
779.50	-12.84	-34.00	-0.08	2.15	18.93	34.77	V
782.00	-12.79	-34.00	-0.13	2.15	18.93	34.77	V
784.50	-13.00	-34.00	-0.13	2.15	18.73	34.77	V

**LTE Band 13\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
782.00	-12.90	-34.00	-0.13	2.15	18.82	34.77	V



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

**Limits:** ≤34.77dBm (3W)

**LTE Band 17\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.45	-34.70	-0.91	2.15	20.19	34.77	V
710.00	-11.60	-34.70	-0.64	2.15	20.30	34.77	V
713.50	-11.62	-34.70	-0.64	2.15	20.29	34.77	V

**LTE Band 17\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.62	-34.70	-0.91	2.15	20.02	34.77	V
710.00	-11.78	-34.70	-0.64	2.15	20.12	34.77	V
711.00	-11.83	-34.70	-0.64	2.15	20.08	34.77	V

**LTE Band 17\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.47	-34.70	-0.91	2.15	20.17	34.77	V
710.00	-11.62	-34.70	-0.64	2.15	20.29	34.77	V
713.50	-11.77	-34.70	-0.64	2.15	20.14	34.77	V

**LTE Band 17\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.61	-34.70	-0.91	2.15	20.03	34.77	V
710.00	-11.81	-34.70	-0.64	2.15	20.10	34.77	V
711.00	-11.90	-34.70	-0.64	2.15	20.00	34.77	V

**LTE Band 17\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-13.49	-34.70	-0.91	2.15	18.16	34.77	V
710.00	-13.72	-34.70	-0.64	2.15	18.19	34.77	V
713.50	-13.79	-34.70	-0.64	2.15	18.11	34.77	V

**LTE Band 17\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-13.59	-34.70	-0.91	2.15	18.05	34.77	V
710.00	-13.81	-34.70	-0.64	2.15	18.09	34.77	V
711.00	-13.78	-34.70	-0.64	2.15	18.12	34.77	V



**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 <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.29	-33.60	-0.79	2.15	21.37	38.45	H
836.50	-9.63	-33.50	-0.74	2.15	20.98	38.45	H
848.30	-9.46	-33.50	-0.73	2.15	21.16	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.46	-33.60	-0.79	2.15	21.19	38.45	H
836.50	-9.81	-33.50	-0.74	2.15	20.80	38.45	H
847.50	-9.67	-33.50	-0.73	2.15	20.95	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.54	-33.60	-0.79	2.15	21.11	38.45	H
836.50	-9.92	-33.50	-0.74	2.15	20.69	38.45	H
846.50	-9.77	-33.50	-0.73	2.15	20.85	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.62	-33.60	-0.79	2.15	21.03	38.45	H
836.50	-9.99	-33.50	-0.74	2.15	20.62	38.45	H
844.00	-9.87	-33.50	-0.73	2.15	20.75	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-9.73	-33.60	-0.79	2.15	20.93	38.45	H
836.50	-10.07	-33.50	-0.74	2.15	20.55	38.45	H
841.50	-9.94	-33.50	-0.73	2.15	20.67	38.45	H

**LTE Band 26(824MHz-849MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-10.31	-33.60	-0.79	2.15	20.35	38.45	H
836.50	-10.65	-33.50	-0.74	2.15	19.97	38.45	H
848.30	-10.61	-33.50	-0.73	2.15	20.01	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-10.45	-33.60	-0.79	2.15	20.20	38.45	H
836.50	-10.84	-33.50	-0.74	2.15	19.78	38.45	H
847.50	-10.74	-33.50	-0.73	2.15	19.87	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-10.59	-33.60	-0.79	2.15	20.07	38.45	H
836.50	-11.00	-33.50	-0.74	2.15	19.62	38.45	H
846.50	-10.78	-33.50	-0.73	2.15	19.84	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-10.66	-33.60	-0.79	2.15	20.00	38.45	H
836.50	-11.03	-33.50	-0.74	2.15	19.59	38.45	H
844.00	-10.90	-33.50	-0.73	2.15	19.71	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-10.84	-33.60	-0.79	2.15	19.81	38.45	H
836.50	-11.18	-33.50	-0.74	2.15	19.43	38.45	H
841.50	-11.06	-33.50	-0.73	2.15	19.56	38.45	H



**LTE Band 26(824MHz-849MHz)\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-11.33	-33.60	-0.79	2.15	19.33	38.45	H
836.50	-11.75	-33.50	-0.74	2.15	18.87	38.45	H
848.30	-11.63	-33.50	-0.73	2.15	18.98	38.45	H

**LTE Band 26(824MHz-849MHz)\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-11.43	-33.60	-0.79	2.15	19.23	38.45	H
836.50	-11.84	-33.50	-0.74	2.15	18.77	38.45	H
847.50	-11.62	-33.50	-0.73	2.15	19.00	38.45	H

**LTE Band 26(824MHz-849MHz)\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-11.62	-33.60	-0.79	2.15	19.04	38.45	H
836.50	-12.02	-33.50	-0.74	2.15	18.59	38.45	H
846.50	-11.70	-33.50	-0.73	2.15	18.91	38.45	H

**LTE Band 26(824MHz-849MHz)\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-11.74	-33.60	-0.79	2.15	18.92	38.45	H
836.50	-12.10	-33.50	-0.74	2.15	18.51	38.45	H
844.00	-11.98	-33.50	-0.73	2.15	18.64	38.45	H

**LTE Band 26(824MHz-849MHz)\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-11.85	-33.60	-0.79	2.15	18.81	38.45	H
836.50	-12.18	-33.50	-0.74	2.15	18.43	38.45	H
841.50	-12.06	-33.50	-0.73	2.15	18.56	38.45	H

**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 <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-9.46	-33.70	-0.80	2.15	21.29	50.00	H
819.00	-9.68	-33.60	-0.75	2.15	21.02	50.00	H
823.30	-9.78	-33.60	-0.79	2.15	20.87	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-9.64	-33.70	-0.80	2.15	21.11	50.00	H
819.00	-9.86	-33.60	-0.75	2.15	20.85	50.00	H
822.50	-9.99	-33.60	-0.79	2.15	20.66	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-9.72	-33.70	-0.80	2.15	21.03	50.00	H
819.00	-9.97	-33.60	-0.75	2.15	20.74	50.00	H
821.50	-10.09	-33.60	-0.79	2.15	20.56	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-9.70	-33.60	-0.80	2.15	20.95	50.00	H
819.00	-10.04	-33.60	-0.75	2.15	20.67	50.00	H
819.00	-10.19	-33.60	-0.79	2.15	20.46	50.00	H

**LTE Band 26(814MHz-824MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-10.48	-33.70	-0.80	2.15	20.27	50.00	H
819.00	-10.69	-33.60	-0.75	2.15	20.01	50.00	H
823.30	-10.94	-33.60	-0.79	2.15	19.72	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-10.63	-33.70	-0.80	2.15	20.12	50.00	H
819.00	-10.88	-33.60	-0.75	2.15	19.82	50.00	H
822.50	-11.07	-33.60	-0.79	2.15	19.59	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-10.76	-33.70	-0.80	2.15	19.99	50.00	H
819.00	-11.04	-33.60	-0.75	2.15	19.66	50.00	H
821.50	-11.10	-33.60	-0.79	2.15	19.56	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-10.73	-33.60	-0.80	2.15	19.92	50.00	H
819.00	-11.07	-33.60	-0.75	2.15	19.63	50.00	H
819.00	-11.23	-33.60	-0.79	2.15	19.43	50.00	H

**LTE Band 26(814MHz-824MHz)\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-11.50	-33.70	-0.80	2.15	19.25	50.00	H
819.00	-11.79	-33.60	-0.75	2.15	18.91	50.00	H
823.30	-11.96	-33.60	-0.79	2.15	18.70	50.00	H

**LTE Band 26(814MHz-824MHz)\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-11.60	-33.70	-0.80	2.15	19.15	50.00	H
819.00	-11.89	-33.60	-0.75	2.15	18.82	50.00	H
822.50	-11.95	-33.60	-0.79	2.15	18.71	50.00	H

**LTE Band 26(814MHz-824MHz)\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-11.79	-33.70	-0.80	2.15	18.96	50.00	H
819.00	-12.07	-33.60	-0.75	2.15	18.63	50.00	H
821.50	-12.03	-33.60	-0.79	2.15	18.63	50.00	H

**LTE Band 26(814MHz-824MHz)\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-11.81	-33.60	-0.80	2.15	18.84	50.00	H
819.00	-12.15	-33.60	-0.75	2.15	18.55	50.00	H
819.00	-12.31	-33.60	-0.79	2.15	18.35	50.00	H

**LTE Band 38 - EIRP Part 27.50(h)(2)****Limits:** ≤33dBm (2W)**LTE Band 38\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-17.61	-28.60	10.70	21.69	33.00	H
2595.00	-17.55	-28.60	10.70	21.75	33.00	H
2617.50	-17.90	-28.60	10.70	21.40	33.00	H

**LTE Band 38\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-17.93	-28.60	10.70	21.37	33.00	H
2595.00	-17.83	-28.60	10.70	21.47	33.00	H
2615.00	-17.20	-28.60	10.70	22.10	33.00	H

**LTE Band 38\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-18.02	-28.60	10.70	21.28	33.00	H
2595.00	-18.00	-28.60	10.70	21.30	33.00	H
2612.50	-17.39	-28.60	10.70	21.91	33.00	H

**LTE Band 38\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-17.50	-28.60	10.70	21.80	33.00	H
2595.00	-17.41	-28.60	10.70	21.89	33.00	H
2610.00	-17.66	-28.60	10.70	21.64	33.00	H

**LTE Band 38\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-18.68	-28.60	10.70	20.62	33.00	H
2595.00	-18.69	-28.60	10.70	20.61	33.00	H
2617.50	-18.81	-28.60	10.70	20.49	33.00	H

**LTE Band 38\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-18.10	-28.60	10.70	21.20	33.00	H
2595.00	-18.06	-28.60	10.70	21.24	33.00	H
2615.00	-18.48	-28.60	10.70	20.82	33.00	H

**LTE Band 38\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-17.76	-28.60	10.70	21.54	33.00	H
2595.00	-17.89	-28.60	10.70	21.41	33.00	H
2612.50	-18.37	-28.60	10.70	20.93	33.00	H

**LTE Band 38\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-18.27	-28.60	10.70	21.03	33.00	H
2595.00	-18.66	-28.60	10.70	20.64	33.00	H
2610.00	-18.53	-28.60	10.70	20.77	33.00	H



**LTE Band 38\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-19.58	-28.60	10.70	19.72	33.00	H
2595.00	-19.60	-28.60	10.70	19.70	33.00	H
2617.50	-19.77	-28.60	10.70	19.53	33.00	H

**LTE Band 38\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-19.97	-28.60	10.70	19.33	33.00	H
2595.00	-19.97	-28.60	10.70	19.33	33.00	H
2615.00	-19.27	-28.60	10.70	20.03	33.00	H

**LTE Band 38\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-19.86	-28.60	10.70	19.44	33.00	H
2595.00	-20.06	-28.60	10.70	19.24	33.00	H
2612.50	-19.62	-28.60	10.70	19.68	33.00	H

**LTE Band 38\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-19.16	-28.60	10.70	20.14	33.00	H
2595.00	-19.56	-28.60	10.70	19.74	33.00	H
2610.00	-19.34	-28.60	10.70	19.96	33.00	H

**LTE Band 41- EIRP Part 27.50(d)(2)**Limits:  $\leq 33\text{dBm}$  (2W)**LTE Band 41\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-17.80	-28.70	10.70	21.60	33.00	H
2593.00	-18.01	-28.60	10.70	21.29	33.00	H
2687.50	-18.14	-28.60	10.70	21.16	33.00	H

**LTE Band 41\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-18.08	-28.70	10.70	21.32	33.00	H
2593.00	-17.22	-28.60	10.70	22.08	33.00	H
2685.00	-17.46	-28.60	10.70	21.84	33.00	H

**LTE Band 41\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-18.19	-28.70	10.70	21.21	33.00	H
2593.00	-17.52	-28.60	10.70	21.78	33.00	H
2682.50	-17.58	-28.60	10.70	21.72	33.00	H

**LTE Band 41\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-17.47	-28.70	10.70	21.93	33.00	H
2593.00	-17.77	-28.60	10.70	21.53	33.00	H
2680.00	-17.85	-28.60	10.70	21.45	33.00	H

**LTE Band 41\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-17.97	-28.70	10.70	21.43	33.00	H
2593.00	-18.08	-28.60	10.70	21.22	33.00	H
2687.50	-18.11	-28.60	10.70	21.19	33.00	H

**LTE Band 41\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-18.37	-28.70	10.70	21.03	33.00	H
2593.00	-18.41	-28.60	10.70	20.89	33.00	H
2685.00	-18.67	-28.60	10.70	20.63	33.00	H

**LTE Band 41\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-18.18	-28.70	10.70	21.22	33.00	H
2593.00	-18.48	-28.60	10.70	20.82	33.00	H
2682.50	-18.51	-28.60	10.70	20.79	33.00	H

**LTE Band 41\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-18.58	-28.70	10.70	20.82	33.00	H
2593.00	-18.78	-28.60	10.70	20.52	33.00	H
2680.00	-19.04	-28.60	10.70	20.26	33.00	H

**LTE Band 41\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-18.90	-28.70	10.70	20.50	33.00	H
2593.00	-19.08	-28.60	10.70	20.22	33.00	H
2687.50	-19.02	-28.60	10.70	20.28	33.00	H

**LTE Band 41\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-19.14	-28.70	10.70	20.26	33.00	H
2593.00	-19.38	-28.60	10.70	19.92	33.00	H
2685.00	-19.62	-28.60	10.70	19.68	33.00	H

**LTE Band 41\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-19.28	-28.70	10.70	20.12	33.00	H
2593.00	-19.69	-28.60	10.70	19.61	33.00	H
2682.50	-19.86	-28.60	10.70	19.44	33.00	H

**LTE Band 41\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-19.49	-28.70	10.70	19.91	33.00	H
2593.00	-19.77	-28.60	10.70	19.53	33.00	H
2680.00	-19.88	-28.60	10.70	19.42	33.00	H

**LTE Band 66- EIRP Part 27.50(d)(4)**

Limits: ≤30dBm (1W)

**LTE Band 66\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.45	-29.60	8.10	21.25	30.00	H
1745.00	-15.91	-29.50	8.10	21.69	30.00	H
1779.30	-16.12	-29.50	8.10	21.47	30.00	H

**LTE Band 66\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-15.66	-29.60	8.10	22.04	30.00	H
1745.00	-16.09	-29.50	8.10	21.51	30.00	H
1778.50	-16.37	-29.50	8.10	21.23	30.00	H

**LTE Band 66\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-15.80	-29.60	8.10	21.90	30.00	H
1745.00	-16.21	-29.50	8.10	21.39	30.00	H
1777.50	-15.54	-29.50	8.10	22.06	30.00	H

**LTE Band 66\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-15.88	-29.60	8.10	21.82	30.00	H
1745.00	-16.37	-29.50	8.10	21.23	30.00	H
1775.00	-15.64	-29.50	8.10	21.96	30.00	H

**LTE Band 66\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-15.99	-29.60	8.10	21.71	30.00	H
1745.00	-15.52	-29.50	8.10	22.08	30.00	H
1772.53	-15.71	-29.50	8.10	21.89	30.00	H

**LTE Band 66\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-16.15	-29.60	8.10	21.55	30.00	H
1745.00	-15.62	-29.50	8.10	21.98	30.00	H
1770.00	-15.88	-29.50	8.10	21.72	30.00	H

**LTE Band 66\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-16.57	-29.60	8.10	21.13	30.00	H
1745.00	-16.00	-29.50	8.10	21.60	30.00	H
1779.30	-16.38	-29.50	8.10	21.22	30.00	H

**LTE Band 66\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-16.65	-29.60	8.10	21.05	30.00	H
1745.00	-16.21	-29.50	8.10	21.39	30.00	H
1778.50	-16.55	-29.50	8.10	21.05	30.00	H

**LTE Band 66\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-16.95	-29.60	8.10	20.75	30.00	H
1745.00	-16.38	-29.50	8.10	21.22	30.00	H
1777.50	-16.82	-29.50	8.10	20.78	30.00	H

**LTE Band 66\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-17.02	-29.60	8.10	20.68	30.00	H
1745.00	-16.50	-29.50	8.10	21.10	30.00	H
1775.00	-16.77	-29.50	8.10	20.83	30.00	H

**LTE Band 66\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-17.20	-29.60	8.10	20.50	30.00	H
1745.00	-16.73	-29.50	8.10	20.86	30.00	H
1772.53	-16.93	-29.50	8.10	20.67	30.00	H

**LTE Band 66\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.34	-29.60	8.10	20.36	30.00	H
1745.00	-16.88	-29.50	8.10	20.72	30.00	H
1770.00	-17.07	-29.50	8.10	20.53	30.00	H

**LTE Band 66\_1.4MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-17.78	-29.60	8.10	19.92	30.00	H
1745.00	-17.10	-29.50	8.10	20.50	30.00	H
1779.30	-17.40	-29.50	8.10	20.20	30.00	H

**LTE Band 66\_3MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.03	-29.60	8.10	19.67	30.00	H
1745.00	-17.59	-29.50	8.10	20.01	30.00	H
1778.50	-17.73	-29.50	8.10	19.87	30.00	H

**LTE Band 66\_5MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.27	-29.60	8.10	19.43	30.00	H
1745.00	-17.71	-29.50	8.10	19.89	30.00	H
1777.50	-18.15	-29.50	8.10	19.45	30.00	H

**LTE Band 66\_10MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.39	-29.60	8.10	19.31	30.00	H
1745.00	-17.88	-29.50	8.10	19.72	30.00	H
1775.00	-18.25	-29.50	8.10	19.35	30.00	H

**LTE Band 66\_15MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.49	-29.60	8.10	19.21	30.00	H
1745.00	-18.03	-29.50	8.10	19.57	30.00	H
1772.53	-18.42	-29.50	8.10	19.18	30.00	H

**LTE Band 66\_20MHz\_64QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.68	-29.60	8.10	19.02	30.00	H
1745.00	-18.22	-29.50	8.10	19.38	30.00	H
1770.00	-18.62	-29.50	8.10	18.98	30.00	H

**LTE Band CA\_7C - EIRP Part 27.50(h)(2)**

Limits: ≤33 dBm (2W)

**LTE Band CA\_7C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-17.53	-28.70	10.70	21.87	33.00	V
2525.60	2501.00	-17.06	-28.60	10.70	22.24	33.00	V
2545.60	2560.00	-17.81	-28.60	10.70	21.49	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-17.63	-28.70	10.70	21.77	33.00	H
2530.10	2542.10	-17.17	-28.60	10.70	22.13	33.00	H
2552.70	2564.70	-17.30	-28.60	10.70	22.00	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-17.63	-28.70	10.70	21.77	33.00	H
2527.50	2503.50	-17.17	-28.60	10.70	22.13	33.00	H
2547.50	2562.50	-17.30	-28.60	10.70	22.00	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-17.69	-28.70	10.70	21.71	33.00	H
2525.30	2542.40	-17.58	-28.60	10.70	21.72	33.00	H
2542.90	2560.00	-17.36	-28.60	10.70	21.94	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-17.56	-28.70	10.70	21.84	33.00	H
2530.10	2544.50	-17.09	-28.60	10.70	22.21	33.00	H
2550.10	2564.50	-17.84	-28.60	10.70	21.46	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-17.59	-28.70	10.70	21.81	33.00	H
2527.60	2544.70	-17.12	-28.60	10.70	22.18	33.00	H
2545.10	2562.20	-17.25	-28.60	10.70	22.05	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-17.60	-28.70	10.70	21.80	33.00	H
2525.10	2544.90	-17.13	-28.60	10.70	22.17	33.00	H
2540.20	2560.00	-17.27	-28.60	10.70	22.03	33.00	H



**LTE Band CA\_7C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-19.00	-28.70	10.70	20.40	33.00	V
2525.60	2501.00	-18.54	-28.60	10.70	20.76	33.00	V
2545.60	2560.00	-18.64	-28.60	10.70	20.66	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-19.05	-28.70	10.70	20.35	33.00	H
2530.10	2542.10	-18.59	-28.60	10.70	20.71	33.00	H
2552.70	2564.70	-18.69	-28.60	10.70	20.61	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-19.02	-28.70	10.70	20.38	33.00	H
2527.50	2503.50	-18.55	-28.60	10.70	20.75	33.00	H
2547.50	2562.50	-18.66	-28.60	10.70	20.64	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-19.09	-28.70	10.70	20.31	33.00	H
2525.30	2542.40	-18.62	-28.60	10.70	20.68	33.00	H
2542.90	2560.00	-18.73	-28.60	10.70	20.57	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-18.99	-28.70	10.70	20.41	33.00	H
2530.10	2544.50	-18.52	-28.60	10.70	20.78	33.00	H
2550.10	2564.50	-18.63	-28.60	10.70	20.67	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-19.02	-28.70	10.70	20.38	33.00	H
2527.60	2544.70	-18.55	-28.60	10.70	20.75	33.00	H
2545.10	2562.20	-18.66	-28.60	10.70	20.64	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-19.02	-28.70	10.70	20.38	33.00	H
2525.10	2544.90	-18.55	-28.60	10.70	20.75	33.00	H
2540.20	2560.00	-18.66	-28.60	10.70	20.64	33.00	H

**LTE Band CA\_7C\_10MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-19.27	-28.70	10.70	20.13	33.00	V
2525.60	2501.00	-18.80	-28.60	10.70	20.50	33.00	V
2545.60	2560.00	-18.97	-28.60	10.70	20.33	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-19.33	-28.70	10.70	20.07	33.00	H
2530.10	2542.10	-18.86	-28.60	10.70	20.44	33.00	H
2552.70	2564.70	-19.03	-28.60	10.70	20.27	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-19.26	-28.70	10.70	20.14	33.00	H
2527.50	2503.50	-18.79	-28.60	10.70	20.51	33.00	H
2547.50	2562.50	-18.96	-28.60	10.70	20.34	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-19.35	-28.70	10.70	20.05	33.00	H
2525.30	2542.40	-18.88	-28.60	10.70	20.42	33.00	H
2542.90	2560.00	-19.05	-28.60	10.70	20.25	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-19.29	-28.70	10.70	20.11	33.00	H
2530.10	2544.50	-18.82	-28.60	10.70	20.48	33.00	H
2550.10	2564.50	-18.99	-28.60	10.70	20.31	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-19.39	-28.70	10.70	20.01	33.00	H
2527.60	2544.70	-18.92	-28.60	10.70	20.38	33.00	H
2545.10	2562.20	-19.09	-28.60	10.70	20.21	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-19.31	-28.70	10.70	20.09	33.00	H
2525.10	2544.90	-18.84	-28.60	10.70	20.46	33.00	H
2540.20	2560.00	-19.01	-28.60	10.70	20.29	33.00	H

**LTE Band CA\_38C - EIRP Part 27.50(h)(2)****Limits:** ≤33dBm (2W)**LTE Band CA\_38C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-18.27	-28.70	10.70	21.13	33.00	V
2587.50	2602.50	-17.92	-28.60	10.70	21.38	33.00	V
2597.50	2612.50	-17.92	-28.50	10.70	21.28	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-17.65	-28.70	10.70	21.75	33.00	V
2585.10	2604.90	-18.06	-28.60	10.70	21.24	33.00	V
2590.20	2610.00	-18.16	-28.60	10.70	21.14	33.00	V

**LTE Band CA\_38C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-19.31	-28.70	10.70	20.09	33.00	V
2587.50	2602.50	-19.74	-28.60	10.70	19.56	33.00	V
2597.50	2612.50	-19.74	-28.50	10.70	19.46	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-19.47	-28.70	10.70	19.93	33.00	V
2585.10	2604.90	-19.89	-28.60	10.70	19.41	33.00	V
2590.20	2610.00	-19.22	-28.60	10.70	20.08	33.00	V

**LTE Band CA\_38C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-17.87	-28.70	10.70	21.53	33.00	V
2587.50	2602.50	-18.25	-28.60	10.70	21.05	33.00	V
2597.50	2612.50	-18.25	-28.50	10.70	20.95	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-18.04	-28.70	10.70	21.36	33.00	V
2585.10	2604.90	-18.42	-28.60	10.70	20.88	33.00	V
2590.20	2610.00	-18.51	-28.60	10.70	20.79	33.00	V



**LTE Band CA\_41C - EIRP Part 27.50(d)(2)**

**Limits:** ≤33dBm (2W)

**LTE Band CA\_41C\_5MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-17.82	-28.70	10.70	21.58	33.00	V
2585.80	2597.50	-18.25	-28.60	10.70	21.05	33.00	V
2633.30	2680.00	-18.19	-28.50	10.70	21.01	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-18.08	-28.70	10.70	21.32	33.00	V
2587.90	2599.90	-17.92	-28.60	10.70	21.38	33.00	V
2635.50	2682.50	-17.94	-28.60	10.70	21.36	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-17.86	-28.70	10.70	21.54	33.00	V
2585.60	2600.00	-18.29	-28.60	10.70	21.01	33.00	V
2630.60	2680.00	-17.61	-28.60	10.70	21.69	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-18.07	-28.70	10.70	21.33	33.00	H
2590.10	2602.10	-17.90	-28.60	10.70	21.40	33.00	H
2637.70	2649.70	-17.92	-28.60	10.70	21.38	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-17.28	-28.70	10.70	22.12	33.00	H
2587.50	2602.50	-17.83	-28.60	10.70	21.47	33.00	H
2632.50	2682.50	-17.85	-28.60	10.70	21.45	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-17.85	-28.70	10.70	21.55	33.00	H
2585.30	2602.40	-18.28	-28.60	10.70	21.02	33.00	H
2627.90	2680.00	-18.32	-28.60	10.70	20.98	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-17.97	-28.70	10.70	21.43	33.00	H
2592.50	2604.20	-17.70	-28.60	10.70	21.60	33.00	H
2640.00	2651.70	-17.72	-28.60	10.70	21.58	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-17.93	-28.70	10.70	21.47	33.00	H
2590.10	2604.50	-17.66	-28.60	10.70	21.64	33.00	H
2635.10	2649.50	-17.68	-28.60	10.70	21.62	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-17.95	-28.70	10.70	21.45	33.00	H
2587.60	2604.70	-17.68	-28.60	10.70	21.62	33.00	H
2630.10	2647.20	-17.70	-28.60	10.70	21.60	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-18.02	-28.70	10.70	21.38	33.00	H
2585.10	2604.90	-17.85	-28.60	10.70	21.45	33.00	H
2625.20	2680.00	-17.87	-28.60	10.70	21.43	33.00	H

**LTE Band CA\_41C\_5MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-18.58	-28.70	10.70	20.82	33.00	V
2585.80	2597.50	-18.85	-28.60	10.70	20.45	33.00	V
2633.30	2680.00	-18.76	-28.50	10.70	20.44	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-18.87	-28.70	10.70	20.53	33.00	V
2587.90	2599.90	-18.41	-28.60	10.70	20.89	33.00	V
2635.50	2682.50	-18.41	-28.60	10.70	20.89	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-18.62	-28.70	10.70	20.78	33.00	V
2585.60	2600.00	-18.88	-28.60	10.70	20.42	33.00	V
2630.60	2680.00	-18.90	-28.60	10.70	20.40	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-18.83	-28.70	10.70	20.57	33.00	H
2590.10	2602.10	-18.37	-28.60	10.70	20.93	33.00	H
2637.70	2649.70	-18.37	-28.60	10.70	20.93	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-18.77	-28.70	10.70	20.63	33.00	H
2587.50	2602.50	-18.31	-28.60	10.70	20.99	33.00	H
2632.50	2682.50	-19.12	-28.60	10.70	20.18	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-18.62	-28.70	10.70	20.78	33.00	H
2585.30	2602.40	-18.88	-28.60	10.70	20.42	33.00	H
2627.90	2680.00	-18.90	-28.60	10.70	20.40	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-18.78	-28.70	10.70	20.62	33.00	H
2592.50	2604.20	-18.25	-28.60	10.70	21.05	33.00	H
2640.00	2651.70	-19.05	-28.60	10.70	20.25	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-18.69	-28.70	10.70	20.71	33.00	H
2590.10	2604.50	-18.95	-28.60	10.70	20.35	33.00	H
2635.10	2649.50	-18.96	-28.60	10.70	20.34	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-18.57	-28.70	10.70	20.83	33.00	H
2587.60	2604.70	-19.04	-28.60	10.70	20.26	33.00	H
2630.10	2647.20	-19.05	-28.60	10.70	20.25	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-18.79	-28.70	10.70	20.61	33.00	H
2585.10	2604.90	-18.33	-28.60	10.70	20.97	33.00	H
2625.20	2680.00	-19.14	-28.60	10.70	20.16	33.00	H



**LTE Band CA\_41C\_5MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2538.30	2550.00	-19.92	-28.70	10.70	19.48	33.00	V
2585.80	2597.50	-20.35	-28.60	10.70	18.95	33.00	V
2633.30	2680.00	-20.29	-28.50	10.70	18.91	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.30	2552.30	-20.18	-28.70	10.70	19.22	33.00	V
2587.90	2599.90	-20.01	-28.60	10.70	19.29	33.00	V
2635.50	2682.50	-19.27	-28.60	10.70	20.03	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2540.50	2554.90	-19.94	-28.70	10.70	19.46	33.00	V
2585.60	2600.00	-20.37	-28.60	10.70	18.93	33.00	V
2630.60	2680.00	-20.41	-28.60	10.70	18.89	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2554.50	-20.14	-28.70	10.70	19.26	33.00	H
2590.10	2602.10	-19.98	-28.60	10.70	19.32	33.00	H
2637.70	2649.70	-19.22	-28.60	10.70	20.08	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2557.50	-20.09	-28.70	10.70	19.31	33.00	H
2587.50	2602.50	-19.92	-28.60	10.70	19.38	33.00	H
2632.50	2682.50	-19.94	-28.60	10.70	19.36	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2542.80	2559.90	-19.96	-28.70	10.70	19.44	33.00	H
2585.30	2602.40	-20.39	-28.60	10.70	18.91	33.00	H
2627.90	2680.00	-20.43	-28.60	10.70	18.87	33.00	H



**LTE Band CA\_41C\_20MHz+5MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2556.70	-20.15	-28.70	10.70	19.25	33.00	H
2592.50	2604.20	-19.88	-28.60	10.70	19.42	33.00	H
2640.00	2651.70	-19.90	-28.60	10.70	19.40	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2559.40	-20.01	-28.70	10.70	19.39	33.00	H
2590.10	2604.50	-20.44	-28.60	10.70	18.86	33.00	H
2635.10	2649.50	-20.48	-28.60	10.70	18.82	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2562.10	-19.91	-28.70	10.70	19.49	33.00	H
2587.60	2604.70	-20.56	-28.60	10.70	18.74	33.00	H
2630.10	2647.20	-20.68	-28.60	10.70	18.62	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2564.80	-20.10	-28.70	10.70	19.30	33.00	H
2585.10	2604.90	-19.94	-28.60	10.70	19.36	33.00	H
2625.20	2680.00	-19.96	-28.60	10.70	19.34	33.00	H

**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  $U = 2.82\text{dB}(30\text{MHz}-3\text{GHz})/3.06\text{dB}(3\text{GHz}-18\text{GHz})/2.40\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

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

## **A.2 FIELD STRENGTH OF SPURIOUS RADIATION**

### **Reference**

FCC: CFR 2.1053, 22.917, 24.238, 27.53,90.691.

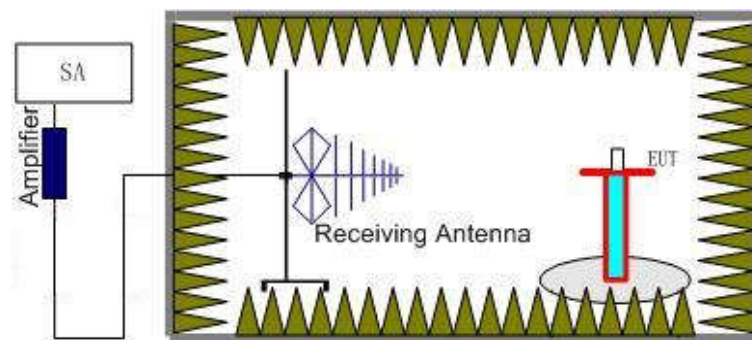
### **A.2.1 Measurement Method**

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

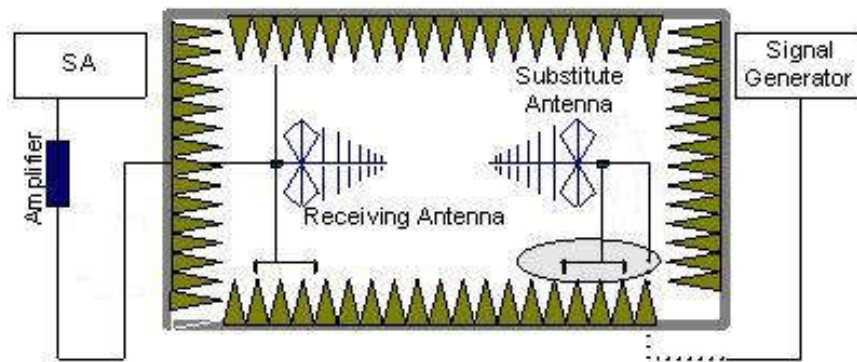
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.53(h) and 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the all LTE Bands

### **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 ( $P_r$ ).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



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

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

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

### A.2.2 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the test LTE Bands. 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 test LTE Bands. 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.

**Upper antenna**

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16936.50	-43.51	2.90	16.50	-29.91	-13.00	H
17101.50	-43.36	2.90	14.50	-31.76	-13.00	H
17363.00	-42.51	3.20	14.50	-31.21	-13.00	H
17418.00	-41.19	2.90	14.50	-29.59	-13.00	H
17578.50	-39.26	3.30	12.80	-29.76	-13.00	H
17777.50	-39.89	3.60	12.80	-30.69	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16994.00	-44.39	2.90	16.50	-30.79	-13.00	H
17123.50	-42.67	2.90	14.50	-31.07	-13.00	H
17342.00	-42.43	3.20	14.50	-31.13	-13.00	H
17464.50	-41.28	2.90	14.50	-29.68	-13.00	H
17571.00	-39.67	3.30	12.80	-30.17	-13.00	H
17766.00	-38.84	3.60	12.80	-29.64	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16984.50	-44.78	2.90	16.50	-31.18	-13.00	H
17171.00	-43.34	2.90	14.50	-31.74	-13.00	H
17339.00	-42.35	3.20	14.50	-31.05	-13.00	H
17458.50	-41.80	2.90	14.50	-30.20	-13.00	H
17571.50	-38.95	3.30	12.80	-29.45	-13.00	H
17821.00	-39.63	3.60	12.80	-30.43	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16973.00	-44.73	2.90	16.50	-31.13	-13.00	H
17202.00	-43.32	2.90	14.50	-31.72	-13.00	H
17283.00	-42.53	3.20	14.50	-31.23	-13.00	H
17497.00	-41.28	2.90	14.50	-29.68	-13.00	H
17591.50	-39.21	3.30	12.80	-29.71	-13.00	H
17818.50	-39.37	3.60	12.80	-30.17	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.50	-44.41	2.90	16.50	-30.81	-13.00	H
17137.00	-43.09	2.90	14.50	-31.49	-13.00	H
17265.50	-43.18	3.20	14.50	-31.88	-13.00	H
17503.00	-39.67	2.90	12.80	-29.77	-13.00	H
17530.50	-39.79	2.90	12.80	-29.89	-13.00	H
17766.50	-39.97	3.60	12.80	-30.77	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
17049.00	-42.57	2.90	14.50	-30.97	-13.00	H
17109.50	-42.86	2.90	14.50	-31.26	-13.00	H
17358.00	-42.45	3.20	14.50	-31.15	-13.00	H
17421.50	-41.43	2.90	14.50	-29.83	-13.00	H
17615.50	-38.63	3.30	12.80	-29.13	-13.00	H
17837.50	-38.79	3.60	12.80	-29.59	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.50	-44.75	2.90	16.50	-31.15	-13.00	H
17162.50	-43.65	2.90	14.50	-32.05	-13.00	H
17363.50	-43.04	3.20	14.50	-31.74	-13.00	H
17474.00	-41.33	2.90	14.50	-29.73	-13.00	H
17582.00	-39.46	3.30	12.80	-29.96	-13.00	H
17801.50	-39.48	3.60	12.80	-30.28	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.50	-44.92	2.90	16.50	-31.32	-13.00	H
17196.50	-43.15	2.90	14.50	-31.55	-13.00	H
17300.00	-42.74	3.20	14.50	-31.44	-13.00	H
17438.00	-41.53	2.90	14.50	-29.93	-13.00	H
17595.00	-38.92	3.30	12.80	-29.42	-13.00	H
17808.50	-39.85	3.60	12.80	-30.65	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.50	-44.64	2.90	16.50	-31.04	-13.00	H
17204.00	-43.42	2.90	14.50	-31.82	-13.00	H
17364.00	-42.79	3.20	14.50	-31.49	-13.00	H
17525.00	-39.51	2.90	12.80	-29.61	-13.00	H
17527.00	-39.77	2.90	12.80	-29.87	-13.00	H
17774.50	-39.66	3.60	12.80	-30.46	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16938.00	-43.20	2.90	16.50	-29.60	-13.00	H
17190.00	-41.07	2.90	14.50	-29.47	-13.00	H
17300.00	-41.11	3.20	14.50	-29.81	-13.00	H
17449.00	-40.19	2.90	14.50	-28.59	-13.00	H
17616.00	-37.68	3.30	12.80	-28.18	-13.00	H
17773.50	-37.65	3.60	12.80	-28.45	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16984.50	-44.34	2.90	16.50	-30.74	-13.00	H
17115.50	-43.25	2.90	14.50	-31.65	-13.00	H
17268.50	-42.79	3.20	14.50	-31.49	-13.00	H
17425.50	-41.12	2.90	14.50	-29.52	-13.00	H
17615.50	-38.91	3.30	12.80	-29.41	-13.00	H
17822.50	-39.12	3.60	12.80	-29.92	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16493.50	-46.09	2.70	17.40	-31.39	-13.00	H
16982.00	-44.39	2.90	16.50	-30.79	-13.00	H
17291.00	-42.40	3.20	14.50	-31.10	-13.00	H
17447.00	-40.67	2.90	14.50	-29.07	-13.00	H
17624.50	-38.54	3.30	12.80	-29.04	-13.00	H
17813.00	-39.76	3.60	12.80	-30.56	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16986.00	-44.76	2.90	16.50	-31.16	-13.00	H
17126.00	-42.94	2.90	14.50	-31.34	-13.00	H
17266.00	-42.35	3.20	14.50	-31.05	-13.00	H
17517.00	-38.85	2.90	12.80	-28.95	-13.00	H
17615.50	-38.92	3.30	12.80	-29.42	-13.00	H
17826.00	-38.12	3.60	12.80	-28.92	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16931.00	-44.00	2.90	16.50	-30.40	-13.00	H
17172.50	-43.07	2.90	14.50	-31.47	-13.00	H
17367.50	-41.58	3.20	14.50	-30.28	-13.00	H
17502.00	-39.47	2.90	12.80	-29.57	-13.00	H
17634.00	-39.43	3.30	12.80	-29.93	-13.00	H
17825.50	-39.37	3.60	12.80	-30.17	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16952.50	-44.70	2.90	16.50	-31.10	-13.00	H
17165.00	-43.26	2.90	14.50	-31.66	-13.00	H
17368.00	-42.29	3.20	14.50	-30.99	-13.00	H
17451.50	-40.83	2.90	14.50	-29.23	-13.00	H
17592.50	-39.90	3.30	12.80	-30.40	-13.00	H
17818.50	-39.95	3.60	12.80	-30.75	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16951.00	-44.19	2.90	16.50	-30.59	-13.00	H
17203.50	-43.28	2.90	14.50	-31.68	-13.00	H
17249.00	-42.69	3.20	14.50	-31.39	-13.00	H
17482.50	-41.11	2.90	14.50	-29.51	-13.00	H
17630.50	-38.55	3.30	12.80	-29.05	-13.00	H
17836.50	-38.51	3.60	12.80	-29.31	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16950.00	-44.94	2.90	16.50	-31.34	-13.00	H
17208.00	-43.41	2.90	14.50	-31.81	-13.00	H
17308.50	-43.00	3.20	14.50	-31.70	-13.00	H
17409.50	-41.38	2.90	14.50	-29.78	-13.00	H
17536.50	-39.81	2.90	12.80	-29.91	-13.00	H
17837.50	-39.39	3.60	12.80	-30.19	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16936.50	-44.30	2.90	16.50	-30.70	-13.00	H
17185.50	-43.70	2.90	14.50	-32.10	-13.00	H
17289.00	-42.54	3.20	14.50	-31.24	-13.00	H
17460.50	-41.32	2.90	14.50	-29.72	-13.00	H
17608.50	-38.96	3.30	12.80	-29.46	-13.00	H
17837.00	-39.66	3.60	12.80	-30.46	-13.00	H

**LTE Band 5, 1.4MHz, QPSK, Channel 20407**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8432.25	-52.06	1.80	11.30	-44.71	-13.00	H
9166.00	-51.92	2.10	11.60	-44.57	-13.00	H
9223.75	-51.01	2.10	11.60	-43.66	-13.00	H
9300.50	-51.65	2.00	11.60	-44.20	-13.00	H
9367.50	-52.27	2.00	11.60	-44.82	-13.00	H
9474.50	-51.82	2.10	11.60	-44.47	-13.00	V

**LTE Band 5, 1.4MHz, QPSK, Channel 20525**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8722.25	-52.54	2.00	12.00	-44.69	-13.00	H
8797.75	-52.52	1.90	12.00	-44.57	-13.00	V
9225.00	-51.51	2.10	11.60	-44.16	-13.00	H
9298.75	-51.17	2.00	11.60	-43.72	-13.00	H
9422.50	-51.58	2.10	11.60	-44.23	-13.00	H
9477.25	-51.97	2.10	11.60	-44.62	-13.00	V

**LTE Band 5, 1.4MHz, QPSK, Channel 20643**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8417.75	-51.97	1.80	11.30	-44.62	-13.00	H
9097.25	-52.20	2.20	11.60	-44.95	-13.00	H
9103.75	-51.96	2.20	11.60	-44.71	-13.00	H
9225.25	-51.28	2.10	11.60	-43.93	-13.00	H
9301.25	-51.37	2.00	11.60	-43.92	-13.00	H
9471.75	-51.81	2.10	11.60	-44.46	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8751.25	-52.30	1.90	12.00	-44.35	-13.00	H
9102.50	-52.05	2.20	11.60	-44.80	-13.00	H
9225.50	-50.91	2.10	11.60	-43.56	-13.00	H
9299.75	-51.14	2.00	11.60	-43.69	-13.00	H
9420.50	-51.75	2.10	11.60	-44.40	-13.00	H
9474.75	-51.33	2.10	11.60	-43.98	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8427.25	-51.88	1.80	11.30	-44.53	-13.00	H
8741.75	-52.71	2.00	12.00	-44.86	-13.00	V
9148.25	-52.09	2.10	11.60	-44.74	-13.00	H
9226.25	-50.53	2.10	11.60	-43.18	-13.00	H
9297.00	-50.61	2.00	11.60	-43.16	-13.00	H
9476.50	-51.13	2.10	11.60	-43.78	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9098.00	-52.43	2.20	11.60	-45.18	-13.00	H
9121.00	-51.95	2.10	11.60	-44.60	-13.00	V
9222.00	-51.82	2.10	11.60	-44.47	-13.00	H
9300.50	-51.35	2.00	11.60	-43.90	-13.00	H
9369.25	-51.74	2.00	11.60	-44.29	-13.00	V
9476.00	-51.37	2.10	11.60	-44.02	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9095.50	-51.63	2.20	11.60	-44.38	-13.00	H
9099.75	-51.76	2.20	11.60	-44.51	-13.00	H
9226.25	-51.50	2.10	11.60	-44.15	-13.00	H
9302.50	-51.02	2.00	11.60	-43.57	-13.00	H
9425.00	-51.28	2.10	11.60	-43.93	-13.00	H
9472.50	-51.63	2.10	11.60	-44.28	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9109.00	-52.00	2.10	11.60	-44.65	-13.00	H
9223.75	-50.80	2.10	11.60	-43.45	-13.00	H
9308.25	-50.62	2.00	11.60	-43.17	-13.00	H
9426.00	-51.44	2.10	11.60	-44.09	-13.00	H
9473.00	-51.08	2.10	11.60	-43.73	-13.00	V
9714.25	-51.60	2.20	11.20	-44.75	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8414.00	-51.95	1.80	11.30	-44.60	-13.00	H
9149.00	-52.00	2.10	11.60	-44.65	-13.00	H
9227.00	-51.16	2.10	11.60	-43.81	-13.00	H
9297.50	-51.56	2.00	11.60	-44.11	-13.00	H
9363.50	-51.92	2.00	11.60	-44.47	-13.00	V
9470.75	-50.99	2.10	11.60	-43.64	-13.00	V

**LTE Band 7, 5MHz, QPSK, Channel 20775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16989.00	-54.82	2.90	16.50	-41.22	-25.00	H
17141.00	-53.53	2.90	14.50	-41.93	-25.00	H
17300.00	-52.65	3.20	14.50	-41.35	-25.00	H
17500.50	-49.68	2.90	12.80	-39.78	-25.00	H
17618.50	-49.33	3.30	12.80	-39.83	-25.00	H
17839.00	-48.95	3.60	12.80	-39.75	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21100**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.00	-54.82	2.90	16.50	-41.22	-25.00	H
17112.50	-53.58	2.90	14.50	-41.98	-25.00	H
17364.50	-52.73	3.20	14.50	-41.43	-25.00	H
17455.00	-51.40	2.90	14.50	-39.80	-25.00	H
17525.50	-49.42	2.90	12.80	-39.52	-25.00	H
17839.00	-49.25	3.60	12.80	-40.05	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21425**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16996.00	-54.54	2.90	16.50	-40.94	-25.00	H
17096.50	-53.42	2.90	14.50	-41.82	-25.00	H
17369.00	-52.62	3.20	14.50	-41.32	-25.00	H
17506.50	-49.69	2.90	12.80	-39.79	-25.00	H
17617.00	-49.14	3.30	12.80	-39.64	-25.00	H
17840.00	-49.10	3.60	12.80	-39.90	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16966.50	-54.61	2.90	16.50	-41.01	-25.00	H
17120.00	-53.60	2.90	14.50	-42.00	-25.00	H
17364.00	-52.69	3.20	14.50	-41.39	-25.00	H
17464.00	-51.40	2.90	14.50	-39.80	-25.00	H
17601.00	-49.24	3.30	12.80	-39.74	-25.00	H
17838.00	-49.53	3.60	12.80	-40.33	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.00	-54.96	2.90	16.50	-41.36	-25.00	H
17180.50	-53.34	2.90	14.50	-41.74	-25.00	H
17363.00	-52.83	3.20	14.50	-41.53	-25.00	H
17524.00	-49.17	2.90	12.80	-39.27	-25.00	H
17529.50	-49.74	2.90	12.80	-39.84	-25.00	H
17828.00	-49.19	3.60	12.80	-39.99	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16962.50	-54.79	2.90	16.50	-41.19	-25.00	H
17184.50	-53.56	2.90	14.50	-41.96	-25.00	H
17296.50	-52.78	3.20	14.50	-41.48	-25.00	H
17522.00	-49.68	2.90	12.80	-39.78	-25.00	H
17575.50	-49.24	3.30	12.80	-39.74	-25.00	H
17831.50	-49.51	3.60	12.80	-40.31	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16985.50	-54.63	2.90	16.50	-41.03	-25.00	H
17197.50	-53.54	2.90	14.50	-41.94	-25.00	H
17366.50	-52.71	3.20	14.50	-41.41	-25.00	H
17503.50	-49.62	2.90	12.80	-39.72	-25.00	H
17624.00	-49.46	3.30	12.80	-39.96	-25.00	H
17839.50	-49.70	3.60	12.80	-40.50	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16943.50	-54.41	2.90	16.50	-40.81	-25.00	H
17142.00	-53.11	2.90	14.50	-41.51	-25.00	H
17281.00	-52.78	3.20	14.50	-41.48	-25.00	H
17455.00	-51.50	2.90	14.50	-39.90	-25.00	H
17576.00	-49.09	3.30	12.80	-39.59	-25.00	H
17839.50	-49.10	3.60	12.80	-39.90	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.50	-54.54	2.90	16.50	-40.94	-25.00	H
17120.00	-53.44	2.90	14.50	-41.84	-25.00	H
17364.50	-52.44	3.20	14.50	-41.14	-25.00	H
17499.00	-51.49	2.90	14.50	-39.89	-25.00	H
17590.50	-49.16	3.30	12.80	-39.66	-25.00	H
17840.00	-49.53	3.60	12.80	-40.33	-25.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8655.75	-52.84	2.00	12.00	-44.99	-13.00	V
9096.50	-51.18	2.20	11.60	-43.93	-13.00	H
9224.00	-51.15	2.10	11.60	-43.80	-13.00	H
9231.25	-51.43	2.10	11.60	-44.08	-13.00	H
9346.00	-51.34	2.00	11.60	-43.89	-13.00	V
9476.50	-51.07	2.10	11.60	-43.72	-13.00	V

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9099.25	-52.15	2.20	11.60	-44.90	-13.00	H
9225.50	-50.28	2.10	11.60	-42.93	-13.00	H
9295.25	-50.76	2.00	11.60	-43.31	-13.00	H
9431.75	-51.47	2.10	11.60	-44.12	-13.00	H
9475.25	-51.39	2.10	11.60	-44.04	-13.00	V
9734.25	-51.28	2.20	11.20	-44.43	-13.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7188.75	-52.57	1.80	12.00	-44.52	-13.00	V
9096.75	-51.54	2.20	11.60	-44.29	-13.00	H
9223.50	-50.53	2.10	11.60	-43.18	-13.00	H
9302.25	-50.94	2.00	11.60	-43.49	-13.00	H
9473.50	-51.63	2.10	11.60	-44.28	-13.00	V
9743.75	-51.36	2.20	11.20	-44.51	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9099.00	-51.88	2.20	11.60	-44.63	-13.00	H
9216.00	-50.86	2.10	11.60	-43.51	-13.00	H
9300.75	-50.13	2.00	11.60	-42.68	-13.00	H
9427.75	-51.33	2.10	11.60	-43.98	-13.00	H
9476.00	-51.29	2.10	11.60	-43.94	-13.00	V
9771.25	-50.77	2.30	11.20	-44.02	-13.00	H

**LTE Band 12, 1.4MHz, 16QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8852.00	-52.74	1.90	12.00	-44.79	-13.00	H
9100.00	-51.61	2.20	11.60	-44.36	-13.00	H
9224.75	-51.27	2.10	11.60	-43.92	-13.00	H
9292.25	-51.50	2.00	11.60	-44.05	-13.00	H
9477.75	-51.29	2.10	11.60	-43.94	-13.00	V
9721.25	-51.07	2.20	11.20	-44.22	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8422.50	-52.50	1.80	11.30	-45.15	-13.00	V
9104.00	-51.58	2.20	11.60	-44.33	-13.00	H
9224.25	-49.93	2.10	11.60	-42.58	-13.00	H
9299.00	-51.05	2.00	11.60	-43.60	-13.00	H
9427.25	-51.33	2.10	11.60	-43.98	-13.00	H
9473.50	-50.89	2.10	11.60	-43.54	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8067.75	-51.77	2.00	11.30	-44.62	-13.00	H
9105.50	-51.22	2.20	11.60	-43.97	-13.00	H
9222.00	-50.96	2.10	11.60	-43.61	-13.00	H
9298.00	-50.56	2.00	11.60	-43.11	-13.00	H
9422.50	-51.18	2.10	11.60	-43.83	-13.00	H
9474.00	-51.18	2.10	11.60	-43.83	-13.00	V

**LTE Band 12, 1.4MHz, 64QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8420.50	-52.04	1.80	11.30	-44.69	-13.00	V
9096.75	-52.18	2.20	11.60	-44.93	-13.00	H
9225.50	-50.88	2.10	11.60	-43.53	-13.00	H
9295.50	-50.84	2.00	11.60	-43.39	-13.00	H
9416.25	-51.63	2.10	11.60	-44.28	-13.00	H
9474.75	-51.48	2.10	11.60	-44.13	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8432.00	-51.81	1.80	11.30	-44.46	-13.00	H
9101.75	-51.62	2.20	11.60	-44.37	-13.00	H
9223.50	-50.20	2.10	11.60	-42.85	-13.00	H
9302.75	-51.41	2.00	11.60	-43.96	-13.00	H
9426.75	-52.04	2.10	11.60	-44.69	-13.00	H
9475.75	-51.37	2.10	11.60	-44.02	-13.00	V

**LTE Band 13, 5MHz, QPSK, Channel 23205**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1569.00	-59.45	0.70	8.10	-54.20	-40.00	V
9104.25	-51.69	2.20	11.60	-44.44	-13.00	H
9298.00	-50.95	2.00	11.60	-43.50	-13.00	H
9475.12	-50.98	2.10	11.60	-43.63	-13.00	V
9758.00	-51.01	2.20	11.20	-44.16	-13.00	H
9785.50	-50.98	2.30	11.20	-44.23	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23230**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1565.00	-59.09	0.70	8.10	-53.84	-40.00	V
9107.12	-51.81	2.10	11.60	-44.46	-13.00	H
9299.62	-50.89	2.00	11.60	-43.44	-13.00	H
9475.00	-51.06	2.10	11.60	-43.71	-13.00	V
9729.62	-51.05	2.20	11.20	-44.20	-13.00	H
9795.00	-50.78	2.30	11.20	-44.03	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23255**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1569.00	-59.63	0.70	8.10	-54.38	-40.00	V
8454.00	-51.22	1.80	11.30	-43.87	-13.00	H
9101.88	-51.23	2.20	11.60	-43.98	-13.00	H
9303.50	-50.44	2.00	11.60	-42.99	-13.00	H
9474.88	-50.53	2.10	11.60	-43.18	-13.00	V
9754.75	-50.70	2.20	11.20	-43.85	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1569.50	-59.63	0.70	8.10	-54.38	-40.00	V
9098.88	-51.41	2.20	11.60	-44.16	-13.00	H
9225.50	-50.40	2.10	11.60	-43.05	-13.00	H
9473.25	-51.30	2.10	11.60	-43.95	-13.00	V
9740.88	-50.75	2.20	11.20	-43.90	-13.00	H
9791.88	-51.29	2.30	11.20	-44.54	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1562.50	-59.68	0.70	8.10	-54.43	-40.00	V
8421.75	-51.98	1.80	11.30	-44.63	-13.00	H
9229.62	-51.13	2.10	11.60	-43.78	-13.00	H
9475.62	-51.11	2.10	11.60	-43.76	-13.00	V
9734.00	-50.93	2.20	11.20	-44.08	-13.00	H
9795.38	-51.17	2.30	11.20	-44.42	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1562.50	-59.64	0.70	8.10	-54.39	-40.00	V
9106.00	-50.69	2.20	11.60	-43.44	-13.00	H
9295.75	-50.44	2.00	11.60	-42.99	-13.00	H
9364.88	-50.21	2.00	11.60	-42.76	-13.00	V
9715.25	-50.77	2.20	11.20	-43.92	-13.00	H
9783.62	-51.11	2.30	11.20	-44.36	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1564.50	-58.88	0.70	8.10	-53.63	-40.00	V
9097.75	-52.03	2.20	11.60	-44.78	-13.00	H
9299.88	-50.01	2.00	11.60	-42.56	-13.00	H
9475.88	-50.98	2.10	11.60	-43.63	-13.00	V
9740.75	-51.08	2.20	11.20	-44.23	-13.00	H
9795.00	-50.99	2.30	11.20	-44.24	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1564.00	-59.61	0.70	8.10	-54.36	-40.00	V
1587.00	-60.66	0.70	8.10	-55.41	-13.00	V
9099.38	-51.69	2.20	11.60	-44.44	-13.00	H
9301.12	-50.77	2.00	11.60	-43.32	-13.00	H
9478.50	-50.81	2.10	11.60	-43.46	-13.00	V
9667.38	-50.98	2.20	11.20	-44.13	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1571.00	-59.68	0.70	8.10	-54.43	-40.00	V
8475.75	-51.74	1.80	11.30	-44.39	-13.00	H
9106.88	-51.62	2.10	11.60	-44.27	-13.00	H
9299.00	-49.89	2.00	11.60	-42.44	-13.00	H
9475.50	-51.01	2.10	11.60	-43.66	-13.00	V
9759.50	-50.73	2.20	11.20	-43.88	-13.00	H

**LTE Band 17, 1.4MHz, QPSK, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9098.75	-51.61	2.20	11.60	-44.36	-13.00	H
9100.50	-51.49	2.20	11.60	-44.24	-13.00	H
9223.75	-51.11	2.10	11.60	-43.76	-13.00	H
9299.75	-50.28	2.00	11.60	-42.83	-13.00	H
9433.25	-51.78	2.10	11.60	-44.43	-13.00	H
9474.50	-50.83	2.10	11.60	-43.48	-13.00	V

**LTE Band 17, 1.4MHz, QPSK, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8474.00	-52.33	1.80	11.30	-44.98	-13.00	H
9093.75	-51.42	2.20	11.60	-44.17	-13.00	H
9219.00	-51.01	2.10	11.60	-43.66	-13.00	H
9303.25	-51.48	2.00	11.60	-44.03	-13.00	H
9363.75	-51.61	2.00	11.60	-44.16	-13.00	V
9476.25	-51.31	2.10	11.60	-43.96	-13.00	V

**LTE Band 17, 1.4MHz, QPSK, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9088.25	-51.64	2.20	11.60	-44.39	-13.00	H
9157.00	-51.68	2.10	11.60	-44.33	-13.00	H
9226.50	-51.41	2.10	11.60	-44.06	-13.00	H
9300.00	-50.61	2.00	11.60	-43.16	-13.00	H
9367.25	-52.06	2.00	11.60	-44.61	-13.00	V
9474.75	-51.23	2.10	11.60	-43.88	-13.00	V

**LTE Band 17, 1.4MHz, 16QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8430.25	-51.77	1.80	11.30	-44.42	-13.00	H
8472.25	-52.15	1.80	11.30	-44.80	-13.00	H
9100.50	-51.07	2.20	11.60	-43.82	-13.00	H
9227.00	-50.75	2.10	11.60	-43.40	-13.00	H
9300.00	-51.28	2.00	11.60	-43.83	-13.00	H
9469.75	-51.76	2.10	11.60	-44.41	-13.00	V

**LTE Band 17, 1.4MHz, 16QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8467.75	-51.93	1.80	11.30	-44.58	-13.00	H
9097.75	-51.60	2.20	11.60	-44.35	-13.00	H
9227.50	-50.94	2.10	11.60	-43.59	-13.00	H
9299.50	-50.35	2.00	11.60	-42.90	-13.00	H
9418.75	-51.15	2.10	11.60	-43.80	-13.00	H
9478.50	-51.61	2.10	11.60	-44.26	-13.00	V

**LTE Band 17, 1.4MHz, 16QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8428.25	-52.13	1.80	11.30	-44.78	-13.00	H
8470.00	-51.98	1.80	11.30	-44.63	-13.00	H
9102.25	-51.71	2.20	11.60	-44.46	-13.00	H
9226.25	-51.13	2.10	11.60	-43.78	-13.00	H
9299.25	-51.18	2.00	11.60	-43.73	-13.00	H
9423.50	-51.98	2.10	11.60	-44.63	-13.00	H

**LTE Band 17, 1.4MHz, 64QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9086.00	-51.77	2.20	11.60	-44.52	-13.00	H
9106.50	-51.79	2.10	11.60	-44.44	-13.00	H
9222.75	-50.60	2.10	11.60	-43.25	-13.00	H
9299.25	-50.93	2.00	11.60	-43.48	-13.00	H
9424.25	-52.12	2.10	11.60	-44.77	-13.00	H
9473.75	-51.50	2.10	11.60	-44.15	-13.00	V

**LTE Band 17, 1.4MHz, 64QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8379.25	-52.38	1.80	11.30	-45.03	-13.00	H
9100.25	-51.54	2.20	11.60	-44.29	-13.00	H
9226.25	-51.38	2.10	11.60	-44.03	-13.00	H
9299.50	-50.88	2.00	11.60	-43.43	-13.00	H
9417.25	-51.65	2.10	11.60	-44.30	-13.00	H
9472.00	-52.42	2.10	11.60	-45.07	-13.00	V

**LTE Band 17, 1.4MHz, 64QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9063.33	-50.78	2.20	11.60	-43.53	-13.00	H
9152.50	-51.82	2.10	11.60	-44.47	-13.00	H
9226.50	-50.97	2.10	11.60	-43.62	-13.00	H
9300.50	-51.66	2.00	11.60	-44.21	-13.00	H
9476.25	-51.67	2.10	11.60	-44.32	-13.00	V
9734.50	-50.99	2.20	11.20	-44.14	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8430.25	-52.47	1.80	11.30	-45.12	-13.00	H
9226.25	-52.06	2.10	11.60	-44.71	-13.00	H
9302.00	-50.63	2.00	11.60	-43.18	-13.00	H
9367.00	-51.95	2.00	11.60	-44.50	-13.00	V
9477.25	-50.85	2.10	11.60	-43.50	-13.00	V
9726.25	-50.79	2.20	11.20	-43.94	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9091.50	-51.68	2.20	11.60	-44.43	-13.00	H
9104.25	-51.66	2.20	11.60	-44.41	-13.00	H
9224.50	-50.25	2.10	11.60	-42.90	-13.00	H
9299.75	-51.12	2.00	11.60	-43.67	-13.00	H
9424.75	-51.42	2.10	11.60	-44.07	-13.00	H
9474.75	-51.72	2.10	11.60	-44.37	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7198.00	-52.23	1.80	12.00	-44.18	-13.00	V
9154.00	-51.60	2.10	11.60	-44.25	-13.00	H
9222.75	-50.87	2.10	11.60	-43.52	-13.00	H
9299.50	-51.29	2.00	11.60	-43.84	-13.00	H
9415.75	-52.01	2.10	11.60	-44.66	-13.00	H
9473.00	-51.40	2.10	11.60	-44.05	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7203.50	-52.63	1.80	12.00	-44.58	-13.00	V
8470.75	-51.45	1.80	11.30	-44.10	-13.00	H
9150.00	-51.81	2.10	11.60	-44.46	-13.00	H
9220.50	-50.69	2.10	11.60	-43.34	-13.00	H
9303.25	-50.85	2.00	11.60	-43.40	-13.00	H
9478.75	-51.31	2.10	11.60	-43.96	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9092.00	-51.61	2.20	11.60	-44.36	-13.00	H
9100.75	-51.04	2.20	11.60	-43.79	-13.00	H
9225.00	-51.31	2.10	11.60	-43.96	-13.00	H
9302.00	-51.49	2.00	11.60	-44.04	-13.00	H
9368.00	-51.99	2.00	11.60	-44.54	-13.00	V
9475.25	-50.82	2.10	11.60	-43.47	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9101.50	-51.88	2.20	11.60	-44.63	-13.00	H
9231.75	-51.11	2.10	11.60	-43.76	-13.00	H
9300.50	-50.85	2.00	11.60	-43.40	-13.00	H
9423.50	-51.65	2.10	11.60	-44.30	-13.00	H
9472.50	-50.71	2.10	11.60	-43.36	-13.00	V
9715.25	-51.48	2.20	11.20	-44.63	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8419.50	-52.14	1.80	11.30	-44.79	-13.00	H
9100.00	-51.36	2.20	11.60	-44.11	-13.00	H
9220.25	-50.28	2.10	11.60	-42.93	-13.00	H
9301.00	-50.94	2.00	11.60	-43.49	-13.00	H
9375.00	-51.93	2.00	11.60	-44.48	-13.00	V
9475.25	-51.26	2.10	11.60	-43.91	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8474.50	-51.94	1.80	11.30	-44.59	-13.00	H
9146.00	-51.96	2.10	11.60	-44.61	-13.00	H
9221.50	-51.63	2.10	11.60	-44.28	-13.00	H
9296.75	-50.97	2.00	11.60	-43.52	-13.00	H
9422.00	-51.62	2.10	11.60	-44.27	-13.00	H
9475.25	-51.12	2.10	11.60	-43.77	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9096.25	-51.71	2.20	11.60	-44.46	-13.00	H
9105.75	-51.71	2.20	11.60	-44.46	-13.00	H
9225.25	-51.42	2.10	11.60	-44.07	-13.00	H
9305.75	-50.66	2.00	11.60	-43.21	-13.00	H
9427.75	-52.07	2.10	11.60	-44.72	-13.00	H
9475.25	-50.97	2.10	11.60	-43.62	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9097.00	-51.31	2.20	11.60	-44.06	-13.00	H
9099.50	-51.90	2.20	11.60	-44.65	-13.00	H
9226.75	-51.13	2.10	11.60	-43.78	-13.00	H
9300.25	-51.15	2.00	11.60	-43.70	-13.00	H
9427.00	-51.81	2.10	11.60	-44.46	-13.00	H
9473.75	-51.80	2.10	11.60	-44.45	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9091.25	-51.82	2.20	11.60	-44.57	-13.00	H
9158.00	-51.93	2.10	11.60	-44.58	-13.00	H
9226.50	-50.82	2.10	11.60	-43.47	-13.00	H
9302.75	-50.82	2.00	11.60	-43.37	-13.00	H
9475.00	-51.82	2.10	11.60	-44.47	-13.00	V
9711.75	-51.18	2.20	11.20	-44.33	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9098.50	-51.77	2.20	11.60	-44.52	-13.00	H
9103.75	-51.91	2.20	11.60	-44.66	-13.00	H
9223.00	-51.24	2.10	11.60	-43.89	-13.00	H
9298.75	-50.28	2.00	11.60	-42.83	-13.00	H
9425.25	-52.03	2.10	11.60	-44.68	-13.00	H
9475.75	-51.19	2.10	11.60	-43.84	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8805.00	-52.68	1.90	12.00	-44.73	-13.00	V
9097.25	-51.75	2.20	11.60	-44.50	-13.00	H
9100.25	-51.12	2.20	11.60	-43.87	-13.00	H
9225.00	-51.04	2.10	11.60	-43.69	-13.00	H
9300.25	-50.81	2.00	11.60	-43.36	-13.00	H
9425.00	-52.14	2.10	11.60	-44.79	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8640.00	-52.88	2.00	12.00	-45.03	-13.00	H
9102.00	-51.84	2.20	11.60	-44.59	-13.00	H
9225.00	-51.26	2.10	11.60	-43.91	-13.00	H
9299.25	-50.71	2.00	11.60	-43.26	-13.00	H
9428.25	-52.16	2.10	11.60	-44.81	-13.00	H
9476.00	-50.78	2.10	11.60	-43.43	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9095.75	-51.82	2.20	11.60	-44.57	-13.00	H
9155.25	-51.84	2.10	11.60	-44.49	-13.00	H
9223.00	-50.98	2.10	11.60	-43.63	-13.00	H
9299.25	-51.24	2.00	11.60	-43.79	-13.00	H
9426.00	-51.05	2.10	11.60	-43.70	-13.00	H
9473.75	-50.93	2.10	11.60	-43.58	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8459.25	-52.03	1.80	11.30	-44.68	-13.00	H
9098.25	-51.79	2.20	11.60	-44.54	-13.00	H
9102.25	-51.40	2.20	11.60	-44.15	-13.00	H
9225.25	-51.11	2.10	11.60	-43.76	-13.00	H
9301.25	-51.22	2.00	11.60	-43.77	-13.00	H
9363.25	-51.49	2.00	11.60	-44.04	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8645.75	-52.78	2.00	12.00	-44.93	-13.00	H
9144.50	-52.34	2.10	11.60	-44.99	-13.00	H
9222.25	-50.93	2.10	11.60	-43.58	-13.00	H
9300.25	-50.68	2.00	11.60	-43.23	-13.00	H
9425.50	-51.99	2.10	11.60	-44.64	-13.00	H
9475.75	-51.31	2.10	11.60	-43.96	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9153.50	-52.23	2.10	11.60	-44.88	-13.00	H
9224.50	-51.13	2.10	11.60	-43.78	-13.00	H
9297.50	-50.72	2.00	11.60	-43.27	-13.00	H
9423.25	-51.49	2.10	11.60	-44.14	-13.00	H
9473.50	-51.44	2.10	11.60	-44.09	-13.00	V
9715.75	-51.97	2.20	11.20	-45.12	-13.00	H

**LTE Band 38, 5MHz, QPSK, Channel 37775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16990.00	-54.83	2.90	16.50	-41.23	-25.00	H
17190.50	-53.46	2.90	14.50	-41.86	-25.00	H
17299.00	-52.72	3.20	14.50	-41.42	-25.00	H
17458.50	-51.47	2.90	14.50	-39.87	-25.00	H
17623.50	-49.35	3.30	12.80	-39.85	-25.00	H
17839.00	-49.79	3.60	12.80	-40.59	-25.00	H

**LTE Band 38, 5MHz, QPSK, Channel 38000**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16956.00	-54.87	2.90	16.50	-41.27	-25.00	H
17215.00	-53.81	2.90	14.50	-42.21	-25.00	H
17365.00	-52.75	3.20	14.50	-41.45	-25.00	H
17458.00	-51.54	2.90	14.50	-39.94	-25.00	H
17572.00	-49.62	3.30	12.80	-40.12	-25.00	H
17838.50	-49.66	3.60	12.80	-40.46	-25.00	H

**LTE Band 38, 5MHz, QPSK, Channel 38225**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-54.77	2.90	16.50	-41.17	-25.00	H
17215.00	-53.45	2.90	14.50	-41.85	-25.00	H
17297.00	-52.46	3.20	14.50	-41.16	-25.00	H
17437.50	-51.35	2.90	14.50	-39.75	-25.00	H
17622.00	-49.44	3.30	12.80	-39.94	-25.00	H
17838.50	-49.67	3.60	12.80	-40.47	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16985.50	-54.81	2.90	16.50	-41.21	-25.00	H
17185.50	-53.40	2.90	14.50	-41.80	-25.00	H
17363.50	-52.88	3.20	14.50	-41.58	-25.00	H
17522.50	-49.80	2.90	12.80	-39.90	-25.00	H
17596.00	-49.45	3.30	12.80	-39.95	-25.00	H
17833.50	-49.69	3.60	12.80	-40.49	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16981.00	-54.73	2.90	16.50	-41.13	-25.00	H
17170.50	-53.58	2.90	14.50	-41.98	-25.00	H
17273.00	-52.96	3.20	14.50	-41.66	-25.00	H
17408.00	-51.54	2.90	14.50	-39.94	-25.00	H
17604.00	-49.13	3.30	12.80	-39.63	-25.00	H
17825.00	-49.73	3.60	12.80	-40.53	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.50	-54.66	2.90	16.50	-41.06	-25.00	H
17125.00	-53.57	2.90	14.50	-41.97	-25.00	H
17297.50	-52.89	3.20	14.50	-41.59	-25.00	H
17522.50	-49.82	2.90	12.80	-39.92	-25.00	H
17567.50	-49.22	3.30	12.80	-39.72	-25.00	H
17838.00	-49.81	3.60	12.80	-40.61	-25.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.50	-54.80	2.90	16.50	-41.20	-25.00	H
17136.50	-53.37	2.90	14.50	-41.77	-25.00	H
17366.50	-52.88	3.20	14.50	-41.58	-25.00	H
17452.50	-51.33	2.90	14.50	-39.73	-25.00	H
17596.00	-49.55	3.30	12.80	-40.05	-25.00	H
17839.00	-49.76	3.60	12.80	-40.56	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16951.50	-54.78	2.90	16.50	-41.18	-25.00	H
17188.50	-53.56	2.90	14.50	-41.96	-25.00	H
17298.50	-52.94	3.20	14.50	-41.64	-25.00	H
17435.50	-50.98	2.90	14.50	-39.38	-25.00	H
17593.50	-49.41	3.30	12.80	-39.91	-25.00	H
17839.50	-49.58	3.60	12.80	-40.38	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16937.00	-54.73	2.90	16.50	-41.13	-25.00	H
17170.50	-53.37	2.90	14.50	-41.77	-25.00	H
17301.00	-52.92	3.20	14.50	-41.62	-25.00	H
17515.50	-49.80	2.90	12.80	-39.90	-25.00	H
17619.50	-49.38	3.30	12.80	-39.88	-25.00	H
17839.00	-49.21	3.60	12.80	-40.01	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16998.00	-54.83	2.90	16.50	-41.23	-25.00	H
17115.50	-53.54	2.90	14.50	-41.94	-25.00	H
17367.00	-52.69	3.20	14.50	-41.39	-25.00	H
17457.50	-51.12	2.90	14.50	-39.52	-25.00	H
17617.00	-49.39	3.30	12.80	-39.89	-25.00	H
17840.00	-48.98	3.60	12.80	-39.78	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16939.50	-54.90	2.90	16.50	-41.30	-25.00	H
17211.00	-53.48	2.90	14.50	-41.88	-25.00	H
17278.50	-52.79	3.20	14.50	-41.49	-25.00	H
17521.00	-49.65	2.90	12.80	-39.75	-25.00	H
17620.00	-49.43	3.30	12.80	-39.93	-25.00	H
17836.50	-49.53	3.60	12.80	-40.33	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 41215**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16935.50	-54.14	2.90	16.50	-40.54	-25.00	H
17212.50	-52.67	2.90	14.50	-41.07	-25.00	H
17359.50	-51.70	3.20	14.50	-40.40	-25.00	H
17453.50	-50.89	2.90	14.50	-39.29	-25.00	H
17619.50	-48.25	3.30	12.80	-38.75	-25.00	H
17837.00	-48.89	3.60	12.80	-39.69	-25.00	H

**LTE Band 41, 5MHz, 16QAM, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16963.50	-54.83	2.90	16.50	-41.23	-25.00	H
17213.50	-53.37	2.90	14.50	-41.77	-25.00	H
17364.50	-52.70	3.20	14.50	-41.40	-25.00	H
17455.00	-51.56	2.90	14.50	-39.96	-25.00	H
17592.00	-49.30	3.30	12.80	-39.80	-25.00	H
17839.50	-49.50	3.60	12.80	-40.30	-25.00	H

**LTE Band 41, 5MHz, 16QAM, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16935.50	-54.52	2.90	16.50	-40.92	-25.00	H
17191.00	-53.35	2.90	14.50	-41.75	-25.00	H
17285.00	-52.82	3.20	14.50	-41.52	-25.00	H
17524.50	-49.81	2.90	12.80	-39.91	-25.00	H
17625.00	-49.05	3.30	12.80	-39.55	-25.00	H
17771.50	-49.02	3.60	12.80	-39.82	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16995.50	-54.81	2.90	16.50	-41.21	-25.00	H
17122.50	-53.59	2.90	14.50	-41.99	-25.00	H
17361.00	-53.09	3.20	14.50	-41.79	-25.00	H
17456.50	-51.67	2.90	14.50	-40.07	-25.00	H
17618.50	-49.36	3.30	12.80	-39.86	-25.00	H
17820.50	-49.42	3.60	12.80	-40.22	-25.00	H

**LTE Band 41, 5MHz, 64QAM, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
17002.00	-52.73	2.90	14.50	-41.13	-25.00	H
17181.50	-53.49	2.90	14.50	-41.89	-25.00	H
17301.00	-52.80	3.20	14.50	-41.50	-25.00	H
17454.00	-51.58	2.90	14.50	-39.98	-25.00	H
17618.00	-49.30	3.30	12.80	-39.80	-25.00	H
17839.00	-49.02	3.60	12.80	-39.82	-25.00	H

**LTE Band 41, 5MHz, 64QAM, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-54.53	2.90	16.50	-40.93	-25.00	H
17118.50	-53.32	2.90	14.50	-41.72	-25.00	H
17299.00	-52.56	3.20	14.50	-41.26	-25.00	H
17456.50	-51.35	2.90	14.50	-39.75	-25.00	H
17569.00	-49.29	3.30	12.80	-39.79	-25.00	H
17839.00	-49.49	3.60	12.80	-40.29	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16989.00	-54.86	2.90	16.50	-41.26	-25.00	H
17187.50	-53.61	2.90	14.50	-42.01	-25.00	H
17277.00	-52.78	3.20	14.50	-41.48	-25.00	H
17455.00	-51.34	2.90	14.50	-39.74	-25.00	H
17585.00	-49.46	3.30	12.80	-39.96	-25.00	H
17839.50	-49.67	3.60	12.80	-40.47	-25.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 131979**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16943.50	-44.52	2.90	16.50	-30.92	-13.00	H
17189.00	-42.07	2.90	14.50	-30.47	-13.00	H
17300.50	-42.01	3.20	14.50	-30.71	-13.00	H
17440.50	-40.84	2.90	14.50	-29.24	-13.00	H
17583.50	-39.11	3.30	12.80	-29.61	-13.00	H
17838.50	-39.49	3.60	12.80	-30.29	-13.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 132322**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16942.50	-48.69	2.90	16.50	-35.09	-13.00	V
17079.00	-46.47	2.90	14.50	-34.87	-13.00	V
17286.00	-46.51	3.20	14.50	-35.21	-13.00	V
17450.00	-46.08	2.90	14.50	-34.48	-13.00	V
17631.50	-43.37	3.30	12.80	-33.87	-13.00	H
17778.50	-43.74	3.60	12.80	-34.54	-13.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 132665**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16938.50	-44.77	2.90	16.50	-31.17	-13.00	H
17189.50	-43.02	2.90	14.50	-31.42	-13.00	H
17347.00	-42.86	3.20	14.50	-31.56	-13.00	H
17444.00	-41.24	2.90	14.50	-29.64	-13.00	H
17606.00	-38.74	3.30	12.80	-29.24	-13.00	H
17815.00	-40.05	3.60	12.80	-30.85	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16971.50	-44.12	2.90	16.50	-30.52	-13.00	H
17187.50	-42.73	2.90	14.50	-31.13	-13.00	H
17299.00	-41.98	3.20	14.50	-30.68	-13.00	H
17466.00	-41.29	2.90	14.50	-29.69	-13.00	H
17627.00	-38.17	3.30	12.80	-28.67	-13.00	H
17838.50	-39.69	3.60	12.80	-30.49	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16942.50	-43.90	2.90	16.50	-30.30	-13.00	H
17140.50	-42.44	2.90	14.50	-30.84	-13.00	H
17360.50	-42.28	3.20	14.50	-30.98	-13.00	H
17450.50	-41.05	2.90	14.50	-29.45	-13.00	H
17618.50	-39.23	3.30	12.80	-29.73	-13.00	H
17822.50	-39.30	3.60	12.80	-30.10	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16944.00	-44.18	2.90	16.50	-30.58	-13.00	H
17117.50	-43.15	2.90	14.50	-31.55	-13.00	H
17354.00	-42.70	3.20	14.50	-31.40	-13.00	H
17450.00	-40.27	2.90	14.50	-28.67	-13.00	H
17595.00	-39.20	3.30	12.80	-29.70	-13.00	H
17779.50	-40.00	3.60	12.80	-30.80	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16980.00	-45.02	2.90	16.50	-31.42	-13.00	H
17214.50	-43.81	2.90	14.50	-32.21	-13.00	H
17278.00	-42.92	3.20	14.50	-31.62	-13.00	H
17505.50	-39.88	2.90	12.80	-29.98	-13.00	H
17571.50	-38.91	3.30	12.80	-29.41	-13.00	H
17837.50	-39.03	3.60	12.80	-29.83	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16946.00	-44.79	2.90	16.50	-31.19	-13.00	H
17131.50	-43.40	2.90	14.50	-31.80	-13.00	H
17297.50	-41.30	3.20	14.50	-30.00	-13.00	H
17507.50	-40.00	2.90	12.80	-30.10	-13.00	H
17622.50	-38.97	3.30	12.80	-29.47	-13.00	H
17825.00	-39.42	3.60	12.80	-30.22	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16949.50	-44.97	2.90	16.50	-31.37	-13.00	H
17204.00	-43.32	2.90	14.50	-31.72	-13.00	H
17296.50	-42.60	3.20	14.50	-31.30	-13.00	H
17524.00	-39.27	2.90	12.80	-29.37	-13.00	H
17571.00	-39.01	3.30	12.80	-29.51	-13.00	H
17817.50	-40.09	3.60	12.80	-30.89	-13.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16983.00	-54.76	2.90	16.50	-43.31	-25.00	H
17136.50	-53.45	2.90	14.50	-44.00	-25.00	H
17275.00	-52.78	3.20	14.50	-43.63	-25.00	H
17459.50	-50.97	2.90	14.50	-41.52	-25.00	H
17572.50	-49.58	3.30	12.80	-42.23	-25.00	H
17833.50	-49.36	3.60	12.80	-42.31	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16998.00	-54.57	2.90	16.50	-43.12	-25.00	H
17185.50	-53.47	2.90	14.50	-44.02	-25.00	H
17282.50	-52.75	3.20	14.50	-43.60	-25.00	H
17505.00	-49.74	2.90	12.80	-41.99	-25.00	H
17527.00	-49.54	2.90	12.80	-41.79	-25.00	H
17839.00	-49.57	3.60	12.80	-42.52	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16945.50	-54.74	2.90	16.50	-43.29	-25.00	H
17188.00	-53.48	2.90	14.50	-44.03	-25.00	H
17273.00	-52.76	3.20	14.50	-43.61	-25.00	H
17459.50	-51.60	2.90	14.50	-42.15	-25.00	H
17582.50	-49.47	3.30	12.80	-42.12	-25.00	H
17840.00	-49.50	3.60	12.80	-42.45	-25.00	H



**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16984.00	-54.72	2.90	16.50	-43.27	-25.00	H
17204.50	-53.32	2.90	14.50	-43.87	-25.00	H
17363.00	-52.58	3.20	14.50	-43.43	-25.00	H
17506.50	-49.62	2.90	12.80	-41.87	-25.00	H
17606.50	-49.49	3.30	12.80	-42.14	-25.00	H
17840.00	-49.58	3.60	12.80	-42.53	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16968.00	-55.06	2.90	16.50	-43.61	-25.00	H
17170.50	-53.16	2.90	14.50	-43.71	-25.00	H
17298.00	-52.80	3.20	14.50	-43.65	-25.00	H
17458.50	-51.50	2.90	14.50	-42.05	-25.00	H
17606.50	-49.29	3.30	12.80	-41.94	-25.00	H
17830.50	-49.88	3.60	12.80	-42.83	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16983.00	-54.70	2.90	16.50	-43.25	-25.00	H
17125.50	-53.50	2.90	14.50	-44.05	-25.00	H
17297.00	-52.87	3.20	14.50	-43.72	-25.00	H
17521.00	-50.08	2.90	12.80	-42.33	-25.00	H
17527.00	-49.26	2.90	12.80	-41.51	-25.00	H
17838.50	-49.28	3.60	12.80	-42.23	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16993.50	-54.94	2.90	16.50	-43.49	-25.00	H
17185.50	-53.37	2.90	14.50	-43.92	-25.00	H
17361.50	-52.83	3.20	14.50	-43.68	-25.00	H
17457.50	-51.66	2.90	14.50	-42.21	-25.00	H
17570.50	-49.40	3.30	12.80	-42.05	-25.00	H
17832.50	-49.68	3.60	12.80	-42.63	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16979.50	-54.65	2.90	16.50	-43.20	-25.00	H
17175.50	-53.63	2.90	14.50	-44.18	-25.00	H
17302.50	-52.81	3.20	14.50	-43.66	-25.00	H
17506.50	-49.72	2.90	12.80	-41.97	-25.00	H
17608.00	-49.30	3.30	12.80	-41.95	-25.00	H
17840.00	-49.65	3.60	12.80	-42.60	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16950.50	-54.75	2.90	16.50	-43.30	-25.00	H
17163.00	-53.44	2.90	14.50	-43.99	-25.00	H
17346.50	-52.79	3.20	14.50	-43.64	-25.00	H
17454.50	-51.73	2.90	14.50	-42.28	-25.00	H
17617.00	-49.31	3.30	12.80	-41.96	-25.00	H
17840.00	-49.75	3.60	12.80	-42.70	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16950.50	-54.50	2.90	16.50	-40.90	-25.00	H
17203.00	-53.35	2.90	14.50	-41.75	-25.00	H
17283.00	-52.57	3.20	14.50	-41.27	-25.00	H
17461.00	-51.35	2.90	14.50	-39.75	-25.00	H
17578.50	-49.51	3.30	12.80	-40.01	-25.00	H
17831.50	-49.51	3.60	12.80	-40.31	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16991.50	-54.86	2.90	16.50	-41.26	-25.00	H
17120.00	-53.63	2.90	14.50	-42.03	-25.00	H
17291.00	-53.07	3.20	14.50	-41.77	-25.00	H
17455.00	-51.58	2.90	14.50	-39.98	-25.00	H
17612.00	-49.40	3.30	12.80	-39.90	-25.00	H
17838.00	-49.52	3.60	12.80	-40.32	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16982.50	-54.69	2.90	16.50	-41.09	-25.00	H
17182.00	-53.58	2.90	14.50	-41.98	-25.00	H
17364.50	-52.80	3.20	14.50	-41.50	-25.00	H
17459.50	-51.35	2.90	14.50	-39.75	-25.00	H
17622.00	-49.51	3.30	12.80	-40.01	-25.00	H
17822.00	-49.44	3.60	12.80	-40.24	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16944.50	-54.71	2.90	16.50	-41.11	-25.00	H
17139.50	-53.49	2.90	14.50	-41.89	-25.00	H
17281.50	-52.76	3.20	14.50	-41.46	-25.00	H
17505.00	-49.80	2.90	12.80	-39.90	-25.00	H
17579.00	-49.48	3.30	12.80	-39.98	-25.00	H
17838.50	-49.59	3.60	12.80	-40.39	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.50	-54.77	2.90	16.50	-41.17	-25.00	H
17205.50	-53.35	2.90	14.50	-41.75	-25.00	H
17366.00	-52.83	3.20	14.50	-41.53	-25.00	H
17505.00	-49.66	2.90	12.80	-39.76	-25.00	H
17613.00	-49.40	3.30	12.80	-39.90	-25.00	H
17839.00	-49.39	3.60	12.80	-40.19	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16932.00	-54.95	2.90	16.50	-41.35	-25.00	H
17140.50	-53.66	2.90	14.50	-42.06	-25.00	H
17285.50	-52.85	3.20	14.50	-41.55	-25.00	H
17453.00	-51.51	2.90	14.50	-39.91	-25.00	H
17576.00	-49.15	3.30	12.80	-39.65	-25.00	H
17840.00	-49.54	3.60	12.80	-40.34	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-54.05	2.90	16.50	-40.45	-25.00	H
17209.00	-53.32	2.90	14.50	-41.72	-25.00	H
17301.00	-52.61	3.20	14.50	-41.31	-25.00	H
17459.50	-51.12	2.90	14.50	-39.52	-25.00	H
17592.00	-49.34	3.30	12.80	-39.84	-25.00	H
17840.00	-49.86	3.60	12.80	-40.66	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16951.50	-54.70	2.90	16.50	-41.10	-25.00	H
17163.00	-53.25	2.90	14.50	-41.65	-25.00	H
17298.50	-52.99	3.20	14.50	-41.69	-25.00	H
17455.00	-51.60	2.90	14.50	-40.00	-25.00	H
17572.50	-49.23	3.30	12.80	-39.73	-25.00	H
17839.50	-49.40	3.60	12.80	-40.20	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16964.50	-54.66	2.90	16.50	-41.06	-25.00	H
17193.00	-53.71	2.90	14.50	-42.11	-25.00	H
17277.00	-52.47	3.20	14.50	-41.17	-25.00	H
17458.00	-51.53	2.90	14.50	-39.93	-25.00	H
17590.50	-49.00	3.30	12.80	-39.50	-25.00	H
17832.50	-49.65	3.60	12.80	-40.45	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16959.00	-54.66	2.90	16.50	-41.06	-25.00	H
17367.00	-52.85	3.20	14.50	-41.55	-25.00	H
17453.00	-51.40	2.90	14.50	-39.80	-25.00	H
17623.50	-49.32	3.30	12.80	-39.82	-25.00	H
17838.00	-49.44	3.60	12.80	-40.24	-25.00	H
17937.50	-47.39	3.20	12.80	-37.79	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16936.50	-54.71	2.90	16.50	-41.11	-25.00	H
17301.50	-52.90	3.20	14.50	-41.60	-25.00	H
17456.50	-51.30	2.90	14.50	-39.70	-25.00	H
17592.00	-49.49	3.30	12.80	-39.99	-25.00	H
17835.50	-49.58	3.60	12.80	-40.38	-25.00	H
17984.00	-47.47	3.20	12.80	-37.87	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16991.00	-54.48	2.90	16.50	-40.88	-25.00	H
17279.50	-52.77	3.20	14.50	-41.47	-25.00	H
17509.50	-49.61	2.90	12.80	-39.71	-25.00	H
17618.50	-49.38	3.30	12.80	-39.88	-25.00	H
17839.50	-49.40	3.60	12.80	-40.20	-25.00	H
17981.50	-47.31	3.20	12.80	-37.71	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16934.00	-54.70	2.90	16.50	-41.10	-25.00	H
17275.00	-52.83	3.20	14.50	-41.53	-25.00	H
17458.00	-51.46	2.90	14.50	-39.86	-25.00	H
17596.00	-49.38	3.30	12.80	-39.88	-25.00	H
17840.00	-49.55	3.60	12.80	-40.35	-25.00	H
17977.50	-47.13	3.20	12.80	-37.53	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16986.00	-54.71	2.90	16.50	-41.11	-25.00	H
17298.00	-52.84	3.20	14.50	-41.54	-25.00	H
17449.00	-51.36	2.90	14.50	-39.76	-25.00	H
17590.50	-49.28	3.30	12.80	-39.78	-25.00	H
17839.50	-49.32	3.60	12.80	-40.12	-25.00	H
17939.50	-47.33	3.20	12.80	-37.73	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16981.50	-54.04	2.90	16.50	-40.44	-25.00	H
17297.00	-52.63	3.20	14.50	-41.33	-25.00	H
17447.00	-51.52	2.90	14.50	-39.92	-25.00	H
17577.00	-49.37	3.30	12.80	-39.87	-25.00	H
17835.50	-49.43	3.60	12.80	-40.23	-25.00	H
17988.00	-47.36	3.20	12.80	-37.76	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16986.50	-54.71	2.90	16.50	-41.11	-25.00	H
17297.00	-52.59	3.20	14.50	-41.29	-25.00	H
17500.50	-49.66	2.90	12.80	-39.76	-25.00	H
17627.50	-49.36	3.30	12.80	-39.86	-25.00	H
17837.00	-49.65	3.60	12.80	-40.45	-25.00	H
17999.00	-47.30	3.20	12.80	-37.70	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16939.50	-54.90	2.90	16.50	-41.30	-25.00	H
17296.00	-52.51	3.20	14.50	-41.21	-25.00	H
17514.50	-49.88	2.90	12.80	-39.98	-25.00	H
17590.50	-49.16	3.30	12.80	-39.66	-25.00	H
17840.00	-49.34	3.60	12.80	-40.14	-25.00	H
17940.50	-47.37	3.20	12.80	-37.77	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.00	-54.63	2.90	16.50	-41.03	-25.00	H
17211.50	-53.36	2.90	14.50	-41.76	-25.00	H
17299.00	-52.49	3.20	14.50	-41.19	-25.00	H
17506.50	-49.72	2.90	12.80	-39.82	-25.00	H
17581.00	-48.98	3.30	12.80	-39.48	-25.00	H
17826.00	-49.53	3.60	12.80	-40.33	-25.00	H



**Lower antenna**

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.00	-44.57	2.90	16.50	-30.97	-13.00	H
17197.50	-43.12	2.90	14.50	-31.52	-13.00	H
17342.00	-42.78	3.20	14.50	-31.48	-13.00	H
17521.50	-39.65	2.90	12.80	-29.75	-13.00	H
17545.00	-39.39	2.90	12.80	-29.49	-13.00	H
17833.00	-39.41	3.60	12.80	-30.21	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16949.50	-44.40	2.90	16.50	-30.80	-13.00	H
17199.00	-43.51	2.90	14.50	-31.91	-13.00	H
17346.50	-42.62	3.20	14.50	-31.32	-13.00	H
17430.50	-41.09	2.90	14.50	-29.49	-13.00	H
17619.50	-39.19	3.30	12.80	-29.69	-13.00	H
17819.00	-39.79	3.60	12.80	-30.59	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16471.50	-46.53	2.70	17.40	-31.83	-13.00	H
16992.50	-43.82	2.90	16.50	-30.22	-13.00	H
17284.50	-42.74	3.20	14.50	-31.44	-13.00	H
17456.50	-40.95	2.90	14.50	-29.35	-13.00	H
17622.50	-38.44	3.30	12.80	-28.94	-13.00	H
17837.00	-38.66	3.60	12.80	-29.46	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16948.00	-44.63	2.90	16.50	-31.03	-13.00	H
17210.00	-41.90	2.90	14.50	-30.30	-13.00	H
17364.00	-42.76	3.20	14.50	-31.46	-13.00	H
17514.50	-39.45	2.90	12.80	-29.55	-13.00	H
17529.00	-38.26	2.90	12.80	-28.36	-13.00	H
17836.00	-39.35	3.60	12.80	-30.15	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16989.50	-44.97	2.90	16.50	-31.37	-13.00	H
17172.00	-43.45	2.90	14.50	-31.85	-13.00	H
17304.00	-42.47	3.20	14.50	-31.17	-13.00	H
17502.50	-39.33	2.90	12.80	-29.43	-13.00	H
17526.00	-39.65	2.90	12.80	-29.75	-13.00	H
17825.50	-39.10	3.60	12.80	-29.90	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16939.00	-44.87	2.90	16.50	-31.27	-13.00	H
17211.00	-42.86	2.90	14.50	-31.26	-13.00	H
17265.00	-42.57	3.20	14.50	-31.27	-13.00	H
17443.00	-41.29	2.90	14.50	-29.69	-13.00	H
17629.50	-39.37	3.30	12.80	-29.87	-13.00	H
17827.50	-39.76	3.60	12.80	-30.56	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16957.50	-44.51	2.90	16.50	-30.91	-13.00	H
17106.00	-43.15	2.90	14.50	-31.55	-13.00	H
17297.50	-42.21	3.20	14.50	-30.91	-13.00	H
17457.50	-41.09	2.90	14.50	-29.49	-13.00	H
17531.00	-39.82	2.90	12.80	-29.92	-13.00	H
17838.50	-38.71	3.60	12.80	-29.51	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16930.50	-44.99	2.90	16.50	-31.39	-13.00	H
17127.00	-43.72	2.90	14.50	-32.12	-13.00	H
17240.00	-42.02	3.20	14.50	-30.72	-13.00	H
17455.50	-41.51	2.90	14.50	-29.91	-13.00	H
17528.00	-39.57	2.90	12.80	-29.67	-13.00	H
17808.00	-39.97	3.60	12.80	-30.77	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16940.50	-45.07	2.90	16.50	-31.47	-13.00	H
17210.00	-42.42	2.90	14.50	-30.82	-13.00	H
17364.50	-42.78	3.20	14.50	-31.48	-13.00	H
17445.00	-41.27	2.90	14.50	-29.67	-13.00	H
17550.00	-38.91	2.90	12.80	-29.01	-13.00	H
17819.00	-39.47	3.60	12.80	-30.27	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16952.00	-44.06	2.90	16.50	-30.46	-13.00	H
17208.00	-42.82	2.90	14.50	-31.22	-13.00	H
17273.00	-42.89	3.20	14.50	-31.59	-13.00	H
17419.00	-41.05	2.90	14.50	-29.45	-13.00	H
17581.50	-39.38	3.30	12.80	-29.88	-13.00	H
17839.50	-39.22	3.60	12.80	-30.02	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
17002.00	-42.73	2.90	14.50	-31.13	-13.00	H
17169.50	-43.03	2.90	14.50	-31.43	-13.00	H
17295.00	-41.96	3.20	14.50	-30.66	-13.00	H
17430.50	-41.45	2.90	14.50	-29.85	-13.00	H
17600.50	-39.41	3.30	12.80	-29.91	-13.00	H
17757.50	-39.59	3.60	12.80	-30.39	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16941.50	-44.26	2.90	16.50	-30.66	-13.00	H
17112.00	-43.31	2.90	14.50	-31.71	-13.00	H
17245.00	-42.75	3.20	14.50	-31.45	-13.00	H
17404.50	-40.92	2.90	14.50	-29.32	-13.00	H
17531.00	-39.51	2.90	12.80	-29.61	-13.00	H
17785.00	-39.52	3.60	12.80	-30.32	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16945.50	-44.25	2.90	16.50	-30.65	-13.00	H
17182.00	-42.27	2.90	14.50	-30.67	-13.00	H
17361.50	-42.52	3.20	14.50	-31.22	-13.00	H
17456.00	-40.48	2.90	14.50	-28.88	-13.00	H
17548.50	-39.69	2.90	12.80	-29.79	-13.00	H
17731.50	-40.14	3.30	12.80	-30.64	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16965.00	-44.27	2.90	16.50	-30.67	-13.00	H
17187.00	-42.24	2.90	14.50	-30.64	-13.00	H
17230.50	-42.79	3.20	14.50	-31.49	-13.00	H
17450.00	-41.20	2.90	14.50	-29.60	-13.00	H
17525.50	-39.64	2.90	12.80	-29.74	-13.00	H
17790.50	-39.36	3.60	12.80	-30.16	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16943.50	-44.66	2.90	16.50	-31.06	-13.00	H
17191.00	-43.59	2.90	14.50	-31.99	-13.00	H
17237.50	-42.11	3.20	14.50	-30.81	-13.00	H
17436.50	-40.79	2.90	14.50	-29.19	-13.00	H
17601.00	-39.61	3.30	12.80	-30.11	-13.00	H
17820.00	-39.93	3.60	12.80	-30.73	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16985.00	-44.23	2.90	16.50	-30.63	-13.00	H
17184.00	-43.38	2.90	14.50	-31.78	-13.00	H
17356.50	-42.10	3.20	14.50	-30.80	-13.00	H
17467.50	-39.84	2.90	14.50	-28.24	-13.00	H
17535.50	-39.51	2.90	12.80	-29.61	-13.00	H
17756.00	-39.36	3.60	12.80	-30.16	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.00	-44.88	2.90	16.50	-31.28	-13.00	H
17175.50	-43.54	2.90	14.50	-31.94	-13.00	H
17267.50	-42.80	3.20	14.50	-31.50	-13.00	H
17464.00	-41.53	2.90	14.50	-29.93	-13.00	H
17577.50	-39.29	3.30	12.80	-29.79	-13.00	H
17775.00	-39.60	3.60	12.80	-30.40	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16958.50	-44.43	2.90	16.50	-30.83	-13.00	H
17206.00	-43.17	2.90	14.50	-31.57	-13.00	H
17279.50	-42.60	3.20	14.50	-31.30	-13.00	H
17484.00	-41.40	2.90	14.50	-29.80	-13.00	H
17606.50	-38.89	3.30	12.80	-29.39	-13.00	H
17828.00	-39.72	3.60	12.80	-30.52	-13.00	H

**LTE Band 5, 1.4MHz, QPSK, Channel 20407**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8471.50	-52.23	1.80	11.30	-44.88	-13.00	H
9102.00	-52.04	2.20	11.60	-44.79	-13.00	H
9226.25	-50.85	2.10	11.60	-43.50	-13.00	H
9299.50	-50.76	2.00	11.60	-43.31	-13.00	H
9433.25	-51.93	2.10	11.60	-44.58	-13.00	H
9474.75	-51.88	2.10	11.60	-44.53	-13.00	V

**LTE Band 5, 1.4MHz, QPSK, Channel 20525**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7019.25	-53.24	1.80	12.00	-45.19	-13.00	V
8825.50	-53.11	1.90	12.00	-45.16	-13.00	V
9125.50	-52.57	2.10	11.60	-45.22	-13.00	V
9352.75	-51.56	2.00	11.60	-44.11	-13.00	V
9368.50	-52.28	2.00	11.60	-44.83	-13.00	V
9474.75	-51.13	2.10	11.60	-43.78	-13.00	V

**LTE Band 5, 1.4MHz, QPSK, Channel 20643**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8438.00	-51.57	1.80	11.30	-44.22	-13.00	H
9225.25	-50.93	2.10	11.60	-43.58	-13.00	H
9305.75	-50.90	2.00	11.60	-43.45	-13.00	H
9424.75	-51.39	2.10	11.60	-44.04	-13.00	H
9477.75	-51.77	2.10	11.60	-44.42	-13.00	V
9692.75	-51.02	2.20	11.20	-44.17	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9096.00	-52.05	2.20	11.60	-44.80	-13.00	H
9102.25	-52.05	2.20	11.60	-44.80	-13.00	H
9222.00	-50.39	2.10	11.60	-43.04	-13.00	H
9295.50	-51.05	2.00	11.60	-43.60	-13.00	H
9423.25	-51.76	2.10	11.60	-44.41	-13.00	H
9474.75	-51.45	2.10	11.60	-44.10	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9144.25	-51.04	2.10	11.60	-43.69	-13.00	H
9225.25	-51.11	2.10	11.60	-43.76	-13.00	H
9310.25	-50.96	2.00	11.60	-43.51	-13.00	H
9366.50	-51.81	2.00	11.60	-44.36	-13.00	V
9472.50	-51.17	2.10	11.60	-43.82	-13.00	V
9676.25	-51.41	2.20	11.20	-44.56	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7909.50	-52.01	1.70	11.30	-44.56	-13.00	H
9099.25	-51.50	2.20	11.60	-44.25	-13.00	H
9225.25	-51.75	2.10	11.60	-44.40	-13.00	H
9305.50	-51.46	2.00	11.60	-44.01	-13.00	H
9476.00	-51.30	2.10	11.60	-43.95	-13.00	V
9707.75	-51.51	2.20	11.20	-44.66	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9100.00	-51.80	2.20	11.60	-44.55	-13.00	H
9225.25	-50.62	2.10	11.60	-43.27	-13.00	H
9301.25	-51.10	2.00	11.60	-43.65	-13.00	H
9373.50	-52.23	2.00	11.60	-44.78	-13.00	V
9477.75	-50.43	2.10	11.60	-43.08	-13.00	V
9754.75	-51.13	2.20	11.20	-44.28	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8422.50	-51.48	1.80	11.30	-44.13	-13.00	H
9104.25	-51.60	2.20	11.60	-44.35	-13.00	H
9223.75	-50.46	2.10	11.60	-43.11	-13.00	H
9304.50	-50.64	2.00	11.60	-43.19	-13.00	H
9424.25	-51.56	2.10	11.60	-44.21	-13.00	H
9475.25	-50.73	2.10	11.60	-43.38	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8475.25	-51.52	1.80	11.30	-44.17	-13.00	H
9221.25	-51.44	2.10	11.60	-44.09	-13.00	H
9299.75	-51.41	2.00	11.60	-43.96	-13.00	H
9419.75	-52.09	2.10	11.60	-44.74	-13.00	H
9475.00	-51.05	2.10	11.60	-43.70	-13.00	V
9739.50	-51.02	2.20	11.20	-44.17	-13.00	H

**LTE Band 7, 5MHz, QPSK, Channel 20775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.50	-54.76	2.90	16.50	-41.16	-25.00	H
17183.50	-53.55	2.90	14.50	-41.95	-25.00	H
17295.00	-52.69	3.20	14.50	-41.39	-25.00	H
17461.00	-51.49	2.90	14.50	-39.89	-25.00	H
17597.00	-49.49	3.30	12.80	-39.99	-25.00	H
17838.00	-49.59	3.60	12.80	-40.39	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21100**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.50	-54.71	2.90	16.50	-41.11	-25.00	H
17168.00	-53.50	2.90	14.50	-41.90	-25.00	H
17297.50	-52.74	3.20	14.50	-41.44	-25.00	H
17453.00	-51.56	2.90	14.50	-39.96	-25.00	H
17580.50	-49.26	3.30	12.80	-39.76	-25.00	H
17840.00	-49.23	3.60	12.80	-40.03	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21425**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16944.00	-54.33	2.90	16.50	-40.73	-25.00	H
17186.50	-53.39	2.90	14.50	-41.79	-25.00	H
17295.00	-52.76	3.20	14.50	-41.46	-25.00	H
17447.00	-51.25	2.90	14.50	-39.65	-25.00	H
17578.00	-49.40	3.30	12.80	-39.90	-25.00	H
17838.00	-49.32	3.60	12.80	-40.12	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16945.50	-54.68	2.90	16.50	-41.08	-25.00	H
17120.00	-53.25	2.90	14.50	-41.65	-25.00	H
17366.00	-52.64	3.20	14.50	-41.34	-25.00	H
17503.50	-49.68	2.90	12.80	-39.78	-25.00	H
17526.50	-49.71	2.90	12.80	-39.81	-25.00	H
17835.00	-49.69	3.60	12.80	-40.49	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16987.00	-54.68	2.90	16.50	-41.08	-25.00	H
17207.00	-53.10	2.90	14.50	-41.50	-25.00	H
17363.00	-52.79	3.20	14.50	-41.49	-25.00	H
17436.00	-51.45	2.90	14.50	-39.85	-25.00	H
17591.50	-49.30	3.30	12.80	-39.80	-25.00	H
17839.00	-49.44	3.60	12.80	-40.24	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16985.50	-54.77	2.90	16.50	-41.17	-25.00	H
17180.50	-53.50	2.90	14.50	-41.90	-25.00	H
17279.00	-52.48	3.20	14.50	-41.18	-25.00	H
17456.50	-51.46	2.90	14.50	-39.86	-25.00	H
17576.50	-49.53	3.30	12.80	-40.03	-25.00	H
17839.00	-49.44	3.60	12.80	-40.24	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16977.50	-54.78	2.90	16.50	-41.18	-25.00	H
17200.00	-53.59	2.90	14.50	-41.99	-25.00	H
17279.50	-52.93	3.20	14.50	-41.63	-25.00	H
17515.50	-49.77	2.90	12.80	-39.87	-25.00	H
17620.00	-49.54	3.30	12.80	-40.04	-25.00	H
17831.50	-49.12	3.60	12.80	-39.92	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16989.50	-54.43	2.90	16.50	-40.83	-25.00	H
17172.50	-53.27	2.90	14.50	-41.67	-25.00	H
17367.50	-52.62	3.20	14.50	-41.32	-25.00	H
17447.00	-51.66	2.90	14.50	-40.06	-25.00	H
17573.00	-49.37	3.30	12.80	-39.87	-25.00	H
17840.00	-49.32	3.60	12.80	-40.12	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16965.00	-54.74	2.90	16.50	-41.14	-25.00	H
17117.00	-53.57	2.90	14.50	-41.97	-25.00	H
17258.00	-52.83	3.20	14.50	-41.53	-25.00	H
17435.50	-51.38	2.90	14.50	-39.78	-25.00	H
17582.50	-49.48	3.30	12.80	-39.98	-25.00	H
17840.00	-49.48	3.60	12.80	-40.28	-25.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8375.75	-51.62	1.80	11.30	-44.27	-13.00	H
9092.25	-51.84	2.20	11.60	-44.59	-13.00	H
9225.00	-50.82	2.10	11.60	-43.47	-13.00	H
9296.50	-51.30	2.00	11.60	-43.85	-13.00	H
9425.75	-51.67	2.10	11.60	-44.32	-13.00	H
9476.50	-50.86	2.10	11.60	-43.51	-13.00	V

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9099.25	-52.11	2.20	11.60	-44.86	-13.00	H
9227.00	-51.57	2.10	11.60	-44.22	-13.00	H
9300.00	-51.24	2.00	11.60	-43.79	-13.00	H
9431.50	-51.53	2.10	11.60	-44.18	-13.00	H
9473.25	-50.79	2.10	11.60	-43.44	-13.00	V
9752.00	-51.18	2.20	11.20	-44.33	-13.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7170.75	-52.66	1.90	12.00	-44.71	-13.00	V
7849.00	-52.15	1.70	11.30	-44.70	-13.00	H
9095.25	-51.39	2.20	11.60	-44.14	-13.00	H
9223.00	-51.50	2.10	11.60	-44.15	-13.00	H
9296.50	-50.37	2.00	11.60	-42.92	-13.00	H
9422.75	-51.39	2.10	11.60	-44.04	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8438.75	-52.18	1.80	11.30	-44.83	-13.00	H
9226.00	-50.61	2.10	11.60	-43.26	-13.00	H
9292.75	-51.26	2.00	11.60	-43.81	-13.00	H
9424.25	-51.19	2.10	11.60	-43.84	-13.00	H
9474.75	-51.22	2.10	11.60	-43.87	-13.00	V
9737.00	-51.00	2.20	11.20	-44.15	-13.00	H

**LTE Band 12, 1.4MHz, 16QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8413.00	-52.34	1.80	11.30	-44.99	-13.00	H
8524.75	-52.57	2.10	12.00	-44.82	-13.00	V
9097.75	-52.05	2.20	11.60	-44.80	-13.00	H
9223.25	-51.08	2.10	11.60	-43.73	-13.00	H
9287.00	-51.44	2.10	11.60	-44.09	-13.00	H
9474.00	-50.84	2.10	11.60	-43.49	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7326.75	-52.80	1.70	12.00	-44.65	-13.00	V
9099.00	-50.95	2.20	11.60	-43.70	-13.00	H
9224.00	-51.34	2.10	11.60	-43.99	-13.00	H
9298.25	-51.19	2.00	11.60	-43.74	-13.00	H
9425.50	-51.86	2.10	11.60	-44.51	-13.00	H
9473.25	-51.60	2.10	11.60	-44.25	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9101.50	-51.60	2.20	11.60	-44.35	-13.00	H
9225.00	-50.32	2.10	11.60	-42.97	-13.00	H
9306.00	-50.79	2.00	11.60	-43.34	-13.00	H
9432.75	-51.72	2.10	11.60	-44.37	-13.00	H
9470.00	-50.91	2.10	11.60	-43.56	-13.00	V
9734.00	-51.50	2.20	11.20	-44.65	-13.00	H

**LTE Band 12, 1.4MHz, 64QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9094.50	-51.83	2.20	11.60	-44.58	-13.00	H
9226.75	-50.50	2.10	11.60	-43.15	-13.00	H
9300.00	-50.50	2.00	11.60	-43.05	-13.00	H
9428.50	-51.73	2.10	11.60	-44.38	-13.00	H
9477.00	-51.11	2.10	11.60	-43.76	-13.00	V
9650.75	-51.76	2.10	11.20	-44.81	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8480.75	-52.29	1.80	11.30	-44.94	-13.00	H
9104.50	-51.26	2.20	11.60	-44.01	-13.00	H
9225.00	-51.17	2.10	11.60	-43.82	-13.00	H
9305.50	-51.14	2.00	11.60	-43.69	-13.00	H
9340.50	-52.14	2.00	11.60	-44.69	-13.00	V
9477.75	-51.60	2.10	11.60	-44.25	-13.00	V

**LTE Band 13, 5MHz, QPSK, Channel 23205**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1569.00	-58.97	0.70	8.10	-53.72	-40.00	V
1602.00	-61.03	0.70	8.10	-55.78	-13.00	H
9097.00	-51.24	2.20	11.60	-43.99	-13.00	H
9219.62	-50.61	2.10	11.60	-43.26	-13.00	H
9475.75	-51.46	2.10	11.60	-44.11	-13.00	V
9740.25	-50.79	2.20	11.20	-43.94	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23230**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1566.00	-59.71	0.70	8.10	-54.46	-40.00	V
8048.62	-51.16	2.00	11.30	-44.01	-13.00	H
9100.50	-51.02	2.20	11.60	-43.77	-13.00	H
9302.50	-51.03	2.00	11.60	-43.58	-13.00	H
9470.75	-51.04	2.10	11.60	-43.69	-13.00	V
9734.62	-50.64	2.20	11.20	-43.79	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23255**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1564.00	-59.80	0.70	8.10	-54.55	-40.00	V
8648.25	-52.89	2.00	12.00	-45.04	-13.00	H
9093.75	-51.45	2.20	11.60	-44.20	-13.00	H
9301.50	-50.27	2.00	11.60	-42.82	-13.00	H
9425.38	-51.25	2.10	11.60	-43.90	-13.00	H
9727.12	-51.08	2.20	11.20	-44.23	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1559.00	-59.67	0.70	8.10	-54.42	-40.00	V
2332.00	-51.45	0.90	9.80	-44.70	-13.00	V
9110.38	-52.08	2.10	11.60	-44.73	-13.00	H
9226.00	-50.44	2.10	11.60	-43.09	-13.00	H
9473.25	-51.40	2.10	11.60	-44.05	-13.00	V
9735.88	-50.68	2.20	11.20	-43.83	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1566.50	-58.70	0.70	8.10	-53.45	-40.00	H
1601.00	-61.09	0.70	8.10	-55.84	-13.00	H
9100.00	-51.70	2.20	11.60	-44.45	-13.00	H
9217.25	-50.70	2.10	11.60	-43.35	-13.00	H
9470.38	-51.22	2.10	11.60	-43.87	-13.00	V
9747.00	-51.12	2.20	11.20	-44.27	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1563.50	-59.22	0.70	8.10	-53.97	-40.00	V
8422.12	-52.41	1.80	11.30	-45.06	-13.00	H
9101.00	-52.20	2.20	11.60	-44.95	-13.00	H
9301.62	-50.39	2.00	11.60	-42.94	-13.00	H
9472.88	-51.47	2.10	11.60	-44.12	-13.00	V
9727.62	-51.50	2.20	11.20	-44.65	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1564.00	-59.21	0.70	8.10	-53.96	-40.00	V
9099.50	-51.58	2.20	11.60	-44.33	-13.00	H
9291.25	-50.67	2.00	11.60	-43.22	-13.00	H
9477.12	-51.15	2.10	11.60	-43.80	-13.00	V
9733.12	-51.21	2.20	11.20	-44.36	-13.00	H
9795.00	-50.65	2.30	11.20	-43.90	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1567.50	-59.59	0.70	8.10	-54.34	-40.00	V
8704.12	-52.57	2.00	12.00	-44.72	-13.00	H
9106.88	-51.75	2.10	11.60	-44.40	-13.00	H
9304.62	-50.26	2.00	11.60	-42.81	-13.00	H
9473.50	-50.57	2.10	11.60	-43.22	-13.00	V
9747.62	-51.26	2.20	11.20	-44.41	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1564.50	-59.26	0.70	8.10	-54.01	-40.00	V
9091.38	-51.92	2.20	11.60	-44.67	-13.00	H
9290.50	-50.97	2.00	11.60	-43.52	-13.00	H
9474.12	-51.01	2.10	11.60	-43.66	-13.00	V
9737.00	-50.94	2.20	11.20	-44.09	-13.00	H
9851.62	-51.26	2.30	11.20	-44.51	-13.00	H

**LTE Band 17, 1.4MHz, QPSK, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7200.00	-52.99	1.80	12.00	-44.94	-13.00	V
9102.50	-51.19	2.20	11.60	-43.94	-13.00	H
9222.25	-50.63	2.10	11.60	-43.28	-13.00	H
9229.75	-51.17	2.10	11.60	-43.82	-13.00	H
9375.50	-51.72	2.00	11.60	-44.27	-13.00	V
9473.00	-51.08	2.10	11.60	-43.73	-13.00	V

**LTE Band 17, 1.4MHz, QPSK, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9105.25	-51.95	2.20	11.60	-44.70	-13.00	H
9225.25	-51.02	2.10	11.60	-43.67	-13.00	H
9300.25	-51.26	2.00	11.60	-43.81	-13.00	H
9424.25	-52.07	2.10	11.60	-44.72	-13.00	H
9475.75	-51.28	2.10	11.60	-43.93	-13.00	V
9733.00	-51.55	2.20	11.20	-44.70	-13.00	H

**LTE Band 17, 1.4MHz, QPSK, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8476.75	-51.69	1.80	11.30	-44.34	-13.00	H
9097.50	-51.60	2.20	11.60	-44.35	-13.00	H
9225.75	-50.52	2.10	11.60	-43.17	-13.00	H
9290.25	-51.32	2.00	11.60	-43.87	-13.00	H
9431.25	-51.09	2.10	11.60	-43.74	-13.00	H
9476.25	-51.68	2.10	11.60	-44.33	-13.00	V

**LTE Band 17, 1.4MHz, 16QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9102.25	-51.30	2.20	11.60	-44.05	-13.00	H
9221.50	-50.95	2.10	11.60	-43.60	-13.00	H
9229.50	-51.46	2.10	11.60	-44.11	-13.00	H
9427.25	-52.27	2.10	11.60	-44.92	-13.00	H
9475.25	-51.05	2.10	11.60	-43.70	-13.00	V
9745.00	-51.14	2.20	11.20	-44.29	-13.00	H

**LTE Band 17, 1.4MHz, 16QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7214.00	-52.76	1.80	12.00	-44.71	-13.00	V
9095.00	-51.94	2.20	11.60	-44.69	-13.00	H
9225.25	-51.56	2.10	11.60	-44.21	-13.00	H
9296.50	-51.03	2.00	11.60	-43.58	-13.00	H
9422.75	-52.40	2.10	11.60	-45.05	-13.00	H
9472.50	-51.12	2.10	11.60	-43.77	-13.00	V

**LTE Band 17, 1.4MHz, 16QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7278.75	-52.85	1.90	12.00	-44.90	-13.00	H
9103.25	-52.17	2.20	11.60	-44.92	-13.00	H
9228.50	-50.91	2.10	11.60	-43.56	-13.00	H
9301.00	-51.34	2.00	11.60	-43.89	-13.00	H
9366.50	-51.59	2.00	11.60	-44.14	-13.00	V
9475.75	-51.67	2.10	11.60	-44.32	-13.00	V

**LTE Band 17, 1.4MHz, 64QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8426.75	-51.68	1.80	11.30	-44.33	-13.00	H
9100.50	-52.07	2.20	11.60	-44.82	-13.00	H
9225.75	-51.07	2.10	11.60	-43.72	-13.00	H
9302.00	-51.18	2.00	11.60	-43.73	-13.00	H
9348.00	-51.99	2.00	11.60	-44.54	-13.00	V
9473.25	-51.50	2.10	11.60	-44.15	-13.00	V

**LTE Band 17, 1.4MHz, 64QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9102.25	-52.17	2.20	11.60	-44.92	-13.00	H
9224.75	-51.36	2.10	11.60	-44.01	-13.00	H
9295.00	-51.10	2.00	11.60	-43.65	-13.00	H
9419.00	-52.19	2.10	11.60	-44.84	-13.00	H
9474.50	-51.00	2.10	11.60	-43.65	-13.00	V
9720.50	-51.13	2.20	11.20	-44.28	-13.00	H

**LTE Band 17, 1.4MHz, 64QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9116.75	-51.56	2.10	11.60	-44.21	-13.00	V
9228.00	-50.96	2.10	11.60	-43.61	-13.00	H
9301.75	-50.93	2.00	11.60	-43.48	-13.00	H
9420.25	-51.76	2.10	11.60	-44.41	-13.00	H
9474.25	-51.21	2.10	11.60	-43.86	-13.00	V
9802.50	-51.41	2.30	11.20	-44.66	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8010.25	-52.31	2.00	11.30	-45.16	-13.00	V
9100.50	-51.71	2.20	11.60	-44.46	-13.00	H
9228.00	-50.96	2.10	11.60	-43.61	-13.00	H
9305.00	-50.36	2.00	11.60	-42.91	-13.00	H
9428.00	-51.60	2.10	11.60	-44.25	-13.00	H
9476.75	-51.73	2.10	11.60	-44.38	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8721.00	-52.47	2.00	12.00	-44.62	-13.00	V
9097.50	-52.12	2.20	11.60	-44.87	-13.00	H
9226.25	-51.42	2.10	11.60	-44.07	-13.00	H
9294.25	-50.05	2.00	11.60	-42.60	-13.00	H
9434.00	-52.13	2.10	11.60	-44.78	-13.00	H
9469.25	-51.20	2.10	11.60	-43.85	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8397.00	-52.00	1.80	11.30	-44.65	-13.00	H
8499.00	-51.80	2.10	11.30	-44.75	-13.00	H
9102.00	-51.82	2.20	11.60	-44.57	-13.00	H
9219.75	-51.24	2.10	11.60	-43.89	-13.00	H
9299.25	-51.05	2.00	11.60	-43.60	-13.00	H
9475.00	-51.38	2.10	11.60	-44.03	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9101.50	-51.63	2.20	11.60	-44.38	-13.00	H
9225.75	-50.35	2.10	11.60	-43.00	-13.00	H
9299.50	-51.20	2.00	11.60	-43.75	-13.00	H
9421.00	-51.94	2.10	11.60	-44.59	-13.00	H
9471.00	-51.11	2.10	11.60	-43.76	-13.00	V
9733.50	-50.60	2.20	11.20	-43.75	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8438.75	-51.93	1.80	11.30	-44.58	-13.00	H
9100.00	-51.79	2.20	11.60	-44.54	-13.00	H
9227.25	-50.46	2.10	11.60	-43.11	-13.00	H
9300.00	-50.44	2.00	11.60	-42.99	-13.00	H
9425.25	-52.03	2.10	11.60	-44.68	-13.00	H
9467.50	-50.49	2.10	11.60	-43.14	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8700.75	-52.38	2.00	12.00	-44.53	-13.00	H
9102.25	-51.24	2.20	11.60	-43.99	-13.00	H
9222.75	-50.94	2.10	11.60	-43.59	-13.00	H
9302.50	-50.99	2.00	11.60	-43.54	-13.00	H
9421.00	-52.03	2.10	11.60	-44.68	-13.00	H
9475.25	-51.36	2.10	11.60	-44.01	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8379.75	-52.38	1.80	11.30	-45.03	-13.00	H
9151.75	-51.51	2.10	11.60	-44.16	-13.00	H
9226.75	-50.37	2.10	11.60	-43.02	-13.00	H
9301.00	-50.87	2.00	11.60	-43.42	-13.00	H
9423.25	-51.71	2.10	11.60	-44.36	-13.00	H
9479.75	-51.21	2.10	11.60	-43.86	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9099.00	-52.20	2.20	11.60	-44.95	-13.00	H
9105.50	-51.87	2.20	11.60	-44.62	-13.00	H
9222.00	-51.26	2.10	11.60	-43.91	-13.00	H
9301.00	-51.46	2.00	11.60	-44.01	-13.00	H
9422.50	-51.96	2.10	11.60	-44.61	-13.00	H
9470.75	-51.35	2.10	11.60	-44.00	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8458.75	-52.04	1.80	11.30	-44.69	-13.00	H
9223.75	-51.43	2.10	11.60	-44.08	-13.00	H
9303.25	-50.89	2.00	11.60	-43.44	-13.00	H
9415.50	-51.97	2.10	11.60	-44.62	-13.00	H
9473.50	-51.80	2.10	11.60	-44.45	-13.00	V
9716.00	-51.52	2.20	11.20	-44.67	-13.00	H



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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9098.50	-52.08	2.20	11.60	-44.83	-13.00	H
9162.50	-51.83	2.10	11.60	-44.48	-13.00	H
9223.50	-51.59	2.10	11.60	-44.24	-13.00	H
9299.25	-50.23	2.00	11.60	-42.78	-13.00	H
9424.25	-52.22	2.10	11.60	-44.87	-13.00	H
9474.25	-50.93	2.10	11.60	-43.58	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8739.75	-52.60	2.00	12.00	-44.75	-13.00	V
9100.00	-51.75	2.20	11.60	-44.50	-13.00	H
9233.25	-50.27	2.10	11.60	-42.92	-13.00	H
9301.75	-50.65	2.00	11.60	-43.20	-13.00	H
9382.50	-52.03	2.10	11.60	-44.68	-13.00	V
9478.25	-51.04	2.10	11.60	-43.69	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8411.25	-52.16	1.80	11.30	-44.81	-13.00	H
9100.00	-51.62	2.20	11.60	-44.37	-13.00	H
9228.50	-50.92	2.10	11.60	-43.57	-13.00	H
9296.00	-51.79	2.00	11.60	-44.34	-13.00	H
9407.50	-52.09	2.10	11.60	-44.74	-13.00	H
9476.50	-51.65	2.10	11.60	-44.30	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
9096.50	-52.23	2.20	11.60	-44.98	-13.00	H
9156.50	-51.98	2.10	11.60	-44.63	-13.00	H
9225.25	-51.29	2.10	11.60	-43.94	-13.00	H
9300.50	-50.87	2.00	11.60	-43.42	-13.00	H
9423.75	-51.79	2.10	11.60	-44.44	-13.00	H
9477.25	-51.18	2.10	11.60	-43.83	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8478.00	-51.87	1.80	11.30	-44.52	-13.00	H
9134.50	-51.69	2.10	11.60	-44.34	-13.00	V
9226.25	-51.03	2.10	11.60	-43.68	-13.00	H
9298.00	-50.41	2.00	11.60	-42.96	-13.00	H
9426.00	-52.09	2.10	11.60	-44.74	-13.00	H
9476.00	-50.99	2.10	11.60	-43.64	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8432.50	-52.24	1.80	11.30	-44.89	-13.00	H
9097.25	-51.95	2.20	11.60	-44.70	-13.00	H
9164.75	-52.13	2.10	11.60	-44.78	-13.00	H
9227.00	-50.64	2.10	11.60	-43.29	-13.00	H
9293.00	-50.90	2.00	11.60	-43.45	-13.00	H
9476.75	-51.45	2.10	11.60	-44.10	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8431.75	-52.47	1.80	11.30	-45.12	-13.00	H
9153.25	-51.78	2.10	11.60	-44.43	-13.00	H
9223.75	-50.85	2.10	11.60	-43.50	-13.00	H
9302.25	-51.35	2.00	11.60	-43.90	-13.00	H
9425.50	-51.51	2.10	11.60	-44.16	-13.00	H
9472.25	-51.00	2.10	11.60	-43.65	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7323.50	-52.74	1.70	12.00	-44.59	-13.00	H
9103.50	-51.36	2.20	11.60	-44.11	-13.00	H
9229.75	-51.42	2.10	11.60	-44.07	-13.00	H
9306.00	-51.17	2.00	11.60	-43.72	-13.00	H
9427.75	-51.95	2.10	11.60	-44.60	-13.00	H
9473.00	-51.30	2.10	11.60	-43.95	-13.00	V

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8371.50	-51.93	1.80	11.30	-44.58	-13.00	H
9149.50	-52.33	2.10	11.60	-44.98	-13.00	H
9223.00	-50.48	2.10	11.60	-43.13	-13.00	H
9295.00	-51.30	2.00	11.60	-43.85	-13.00	H
9420.50	-52.33	2.10	11.60	-44.98	-13.00	H
9475.00	-51.85	2.10	11.60	-44.50	-13.00	V

**LTE Band 38, 5MHz, QPSK, Channel 37775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16938.50	-54.64	2.90	16.50	-41.04	-25.00	H
17182.50	-53.64	2.90	14.50	-42.04	-25.00	H
17352.00	-52.36	3.20	14.50	-41.06	-25.00	H
17456.50	-51.64	2.90	14.50	-40.04	-25.00	H
17615.50	-49.28	3.30	12.80	-39.78	-25.00	H
17840.00	-49.42	3.60	12.80	-40.22	-25.00	H

**LTE Band 38, 5MHz, QPSK, Channel 38000**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-55.00	2.90	16.50	-41.40	-25.00	H
17175.50	-53.53	2.90	14.50	-41.93	-25.00	H
17297.00	-52.79	3.20	14.50	-41.49	-25.00	H
17520.00	-49.68	2.90	12.80	-39.78	-25.00	H
17589.50	-49.47	3.30	12.80	-39.97	-25.00	H
17773.50	-49.71	3.60	12.80	-40.51	-25.00	H

**LTE Band 38, 5MHz, QPSK, Channel 38225**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16950.50	-55.03	2.90	16.50	-41.43	-25.00	H
17118.50	-53.70	2.90	14.50	-42.10	-25.00	H
17297.00	-53.11	3.20	14.50	-41.81	-25.00	H
17464.00	-51.57	2.90	14.50	-39.97	-25.00	H
17627.50	-49.25	3.30	12.80	-39.75	-25.00	H
17777.00	-49.88	3.60	12.80	-40.68	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16947.00	-54.90	2.90	16.50	-41.30	-25.00	H
17207.00	-53.51	2.90	14.50	-41.91	-25.00	H
17368.00	-52.77	3.20	14.50	-41.47	-25.00	H
17453.00	-51.40	2.90	14.50	-39.80	-25.00	H
17594.50	-49.27	3.30	12.80	-39.77	-25.00	H
17839.50	-49.64	3.60	12.80	-40.44	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.00	-54.77	2.90	16.50	-41.17	-25.00	H
17204.50	-53.51	2.90	14.50	-41.91	-25.00	H
17291.00	-52.76	3.20	14.50	-41.46	-25.00	H
17443.50	-51.39	2.90	14.50	-39.79	-25.00	H
17614.50	-49.18	3.30	12.80	-39.68	-25.00	H
17833.50	-49.17	3.60	12.80	-39.97	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16964.00	-54.80	2.90	16.50	-41.20	-25.00	H
17214.00	-53.56	2.90	14.50	-41.96	-25.00	H
17299.50	-52.77	3.20	14.50	-41.47	-25.00	H
17508.00	-49.71	2.90	12.80	-39.81	-25.00	H
17576.00	-49.35	3.30	12.80	-39.85	-25.00	H
17840.00	-49.56	3.60	12.80	-40.36	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16935.00	-54.56	2.90	16.50	-40.96	-25.00	H
17121.50	-53.49	2.90	14.50	-41.89	-25.00	H
17289.00	-52.92	3.20	14.50	-41.62	-25.00	H
17511.50	-49.76	2.90	12.80	-39.86	-25.00	H
17621.00	-49.31	3.30	12.80	-39.81	-25.00	H
17838.00	-49.46	3.60	12.80	-40.26	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16947.00	-54.86	2.90	16.50	-41.26	-25.00	H
17185.50	-53.60	2.90	14.50	-42.00	-25.00	H
17369.00	-52.82	3.20	14.50	-41.52	-25.00	H
17459.50	-51.48	2.90	14.50	-39.88	-25.00	H
17596.00	-49.40	3.30	12.80	-39.90	-25.00	H
17840.00	-49.68	3.60	12.80	-40.48	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16963.50	-54.80	2.90	16.50	-41.20	-25.00	H
17122.50	-53.57	2.90	14.50	-41.97	-25.00	H
17294.50	-52.78	3.20	14.50	-41.48	-25.00	H
17458.00	-51.34	2.90	14.50	-39.74	-25.00	H
17595.00	-49.38	3.30	12.80	-39.88	-25.00	H
17840.00	-49.80	3.60	12.80	-40.60	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-54.78	2.90	16.50	-41.18	-25.00	H
17120.00	-53.04	2.90	14.50	-41.44	-25.00	H
17294.00	-52.80	3.20	14.50	-41.50	-25.00	H
17505.50	-49.46	2.90	12.80	-39.56	-25.00	H
17598.50	-49.28	3.30	12.80	-39.78	-25.00	H
17840.00	-49.48	3.60	12.80	-40.28	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16980.50	-54.64	2.90	16.50	-41.04	-25.00	H
17186.00	-53.73	2.90	14.50	-42.13	-25.00	H
17274.50	-52.91	3.20	14.50	-41.61	-25.00	H
17509.50	-49.35	2.90	12.80	-39.45	-25.00	H
17594.50	-49.49	3.30	12.80	-39.99	-25.00	H
17838.00	-49.38	3.60	12.80	-40.18	-25.00	H

**LTE Band 41, 5MHz, QPSK, Channel 41215**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16940.00	-54.79	2.90	16.50	-41.19	-25.00	H
17188.00	-53.55	2.90	14.50	-41.95	-25.00	H
17366.50	-52.86	3.20	14.50	-41.56	-25.00	H
17517.00	-49.50	2.90	12.80	-39.60	-25.00	H
17601.50	-49.27	3.30	12.80	-39.77	-25.00	H
17824.00	-49.56	3.60	12.80	-40.36	-25.00	H

**LTE Band 41, 5MHz, 16QAM, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16936.50	-54.55	2.90	16.50	-40.95	-25.00	H
17211.50	-53.38	2.90	14.50	-41.78	-25.00	H
17299.00	-52.83	3.20	14.50	-41.53	-25.00	H
17462.50	-51.36	2.90	14.50	-39.76	-25.00	H
17572.50	-49.37	3.30	12.80	-39.87	-25.00	H
17839.00	-49.16	3.60	12.80	-39.96	-25.00	H

**LTE Band 41, 5MHz, 16QAM, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.00	-54.94	2.90	16.50	-41.34	-25.00	H
17116.00	-53.30	2.90	14.50	-41.70	-25.00	H
17279.00	-52.84	3.20	14.50	-41.54	-25.00	H
17455.00	-51.20	2.90	14.50	-39.60	-25.00	H
17597.00	-49.47	3.30	12.80	-39.97	-25.00	H
17773.50	-49.79	3.60	12.80	-40.59	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16950.50	-54.53	2.90	16.50	-40.93	-25.00	H
17211.00	-53.26	2.90	14.50	-41.66	-25.00	H
17296.50	-52.65	3.20	14.50	-41.35	-25.00	H
17522.50	-49.81	2.90	12.80	-39.91	-25.00	H
17602.50	-49.37	3.30	12.80	-39.87	-25.00	H
17823.00	-49.57	3.60	12.80	-40.37	-25.00	H



**LTE Band 41, 5MHz, 64QAM, Channel 40065**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16979.50	-54.75	2.90	16.50	-41.15	-25.00	H
17210.50	-53.72	2.90	14.50	-42.12	-25.00	H
17303.00	-52.88	3.20	14.50	-41.58	-25.00	H
17455.00	-51.33	2.90	14.50	-39.73	-25.00	H
17618.50	-49.40	3.30	12.80	-39.90	-25.00	H
17826.00	-49.43	3.60	12.80	-40.23	-25.00	H

**LTE Band 41, 5MHz, 64QAM, Channel 40640**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16975.50	-54.79	2.90	16.50	-41.19	-25.00	H
17115.00	-53.39	2.90	14.50	-41.79	-25.00	H
17368.00	-52.56	3.20	14.50	-41.26	-25.00	H
17459.50	-51.45	2.90	14.50	-39.85	-25.00	H
17623.50	-49.19	3.30	12.80	-39.69	-25.00	H
17835.50	-49.33	3.60	12.80	-40.13	-25.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16945.50	-54.71	2.90	16.50	-41.11	-25.00	H
17213.50	-53.53	2.90	14.50	-41.93	-25.00	H
17357.50	-52.60	3.20	14.50	-41.30	-25.00	H
17458.00	-51.13	2.90	14.50	-39.53	-25.00	H
17581.00	-49.47	3.30	12.80	-39.97	-25.00	H
17837.50	-49.59	3.60	12.80	-40.39	-25.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 131979**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16954.00	-44.14	2.90	16.50	-30.54	-13.00	H
17098.50	-42.96	2.90	14.50	-31.36	-13.00	H
17293.00	-42.78	3.20	14.50	-31.48	-13.00	H
17506.00	-39.37	2.90	12.80	-29.47	-13.00	H
17586.00	-39.14	3.30	12.80	-29.64	-13.00	H
17822.50	-39.35	3.60	12.80	-30.15	-13.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 132322**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16962.50	-44.90	2.90	16.50	-31.30	-13.00	H
17213.00	-43.70	2.90	14.50	-32.10	-13.00	H
17328.00	-42.82	3.20	14.50	-31.52	-13.00	H
17464.50	-40.72	2.90	14.50	-29.12	-13.00	H
17620.50	-39.53	3.30	12.80	-30.03	-13.00	H
17826.00	-39.32	3.60	12.80	-30.12	-13.00	H

**LTE Band 66, 1.4MHz, QPSK, Channel 132665**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
17009.00	-43.14	2.90	14.50	-31.54	-13.00	H
17107.50	-42.66	2.90	14.50	-31.06	-13.00	H
17301.00	-42.27	3.20	14.50	-30.97	-13.00	H
17520.00	-40.02	2.90	12.80	-30.12	-13.00	H
17581.00	-39.15	3.30	12.80	-29.65	-13.00	H
17828.00	-39.48	3.60	12.80	-30.28	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16969.50	-44.89	2.90	16.50	-31.29	-13.00	H
17192.00	-43.75	2.90	14.50	-32.15	-13.00	H
17299.00	-42.95	3.20	14.50	-31.65	-13.00	H
17464.00	-41.80	2.90	14.50	-30.20	-13.00	H
17586.00	-39.01	3.30	12.80	-29.51	-13.00	H
17830.00	-39.97	3.60	12.80	-30.77	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.50	-43.43	2.90	16.50	-29.83	-13.00	H
17119.00	-41.74	2.90	14.50	-30.14	-13.00	H
17304.50	-41.37	3.20	14.50	-30.07	-13.00	H
17448.50	-39.47	2.90	14.50	-27.87	-13.00	H
17613.50	-37.49	3.30	12.80	-27.99	-13.00	H
17823.00	-37.81	3.60	12.80	-28.61	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16478.00	-46.74	2.70	17.40	-32.04	-13.00	H
16984.00	-44.45	2.90	16.50	-30.85	-13.00	H
17286.00	-42.54	3.20	14.50	-31.24	-13.00	H
17525.00	-39.81	2.90	12.80	-29.91	-13.00	H
17644.50	-38.91	3.30	12.80	-29.41	-13.00	H
17755.50	-38.80	3.60	12.80	-29.60	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.00	-44.62	2.90	16.50	-31.02	-13.00	H
17183.00	-43.40	2.90	14.50	-31.80	-13.00	H
17236.50	-42.53	3.20	14.50	-31.23	-13.00	H
17422.50	-41.41	2.90	14.50	-29.81	-13.00	H
17560.50	-39.35	2.90	12.80	-29.45	-13.00	H
17802.50	-39.57	3.60	12.80	-30.37	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16876.50	-44.67	2.90	16.50	-31.07	-13.00	H
16979.50	-43.83	2.90	16.50	-30.23	-13.00	H
17360.00	-41.78	3.20	14.50	-30.48	-13.00	H
17454.50	-40.32	2.90	14.50	-28.72	-13.00	H
17587.00	-38.24	3.30	12.80	-28.74	-13.00	H
17837.50	-38.62	3.60	12.80	-29.42	-13.00	H

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

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16996.50	-44.82	2.90	16.50	-31.22	-13.00	H
17211.50	-42.93	2.90	14.50	-31.33	-13.00	H
17285.50	-42.85	3.20	14.50	-31.55	-13.00	H
17499.50	-41.63	2.90	14.50	-30.03	-13.00	H
17530.00	-39.44	2.90	12.80	-29.54	-13.00	H
17839.50	-39.26	3.60	12.80	-30.06	-13.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16981.50	-54.78	2.90	16.50	-43.33	-25.00	H
17209.00	-53.54	2.90	14.50	-44.09	-25.00	H
17297.00	-52.77	3.20	14.50	-43.62	-25.00	H
17461.00	-51.40	2.90	14.50	-41.95	-25.00	H
17582.50	-49.30	3.30	12.80	-41.95	-25.00	H
17838.00	-49.19	3.60	12.80	-42.14	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16941.50	-54.79	2.90	16.50	-43.34	-25.00	H
17209.50	-53.61	2.90	14.50	-44.16	-25.00	H
17301.50	-52.82	3.20	14.50	-43.67	-25.00	H
17451.50	-51.46	2.90	14.50	-42.01	-25.00	H
17592.50	-49.55	3.30	12.80	-42.20	-25.00	H
17820.50	-49.50	3.60	12.80	-42.45	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, QPSK, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16949.50	-54.76	2.90	16.50	-43.31	-25.00	H
17211.50	-53.35	2.90	14.50	-43.90	-25.00	H
17295.00	-52.65	3.20	14.50	-43.50	-25.00	H
17500.50	-49.59	2.90	12.80	-41.84	-25.00	H
17571.50	-49.33	3.30	12.80	-41.98	-25.00	H
17838.00	-49.61	3.60	12.80	-42.56	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16950.00	-54.91	2.90	16.50	-43.46	-25.00	H
17185.50	-53.58	2.90	14.50	-44.13	-25.00	H
17301.00	-52.79	3.20	14.50	-43.64	-25.00	H
17414.50	-51.51	2.90	14.50	-42.06	-25.00	H
17622.00	-49.44	3.30	12.80	-42.09	-25.00	H
17840.00	-49.59	3.60	12.80	-42.54	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16940.50	-54.86	2.90	16.50	-43.41	-25.00	H
17204.50	-53.44	2.90	14.50	-43.99	-25.00	H
17276.50	-52.82	3.20	14.50	-43.67	-25.00	H
17454.50	-51.64	2.90	14.50	-42.19	-25.00	H
17595.50	-49.49	3.30	12.80	-42.14	-25.00	H
17825.00	-49.73	3.60	12.80	-42.68	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 16QAM, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16992.50	-54.87	2.90	16.50	-43.42	-25.00	H
17179.00	-53.70	2.90	14.50	-44.25	-25.00	H
17300.00	-52.61	3.20	14.50	-43.46	-25.00	H
17454.00	-51.52	2.90	14.50	-42.07	-25.00	H
17591.50	-49.25	3.30	12.80	-41.90	-25.00	H
17836.50	-49.60	3.60	12.80	-42.55	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 20850+21048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16991.50	-54.52	2.90	16.50	-43.07	-25.00	H
17122.50	-53.45	2.90	14.50	-44.00	-25.00	H
17303.50	-52.80	3.20	14.50	-43.65	-25.00	H
17463.50	-51.57	2.90	14.50	-42.12	-25.00	H
17589.50	-49.53	3.30	12.80	-42.18	-25.00	H
17839.50	-49.43	3.60	12.80	-42.38	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 21001+21199**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16979.50	-54.68	2.90	16.50	-43.23	-25.00	H
17212.00	-53.45	2.90	14.50	-44.00	-25.00	H
17368.00	-52.71	3.20	14.50	-43.56	-25.00	H
17437.50	-51.70	2.90	14.50	-42.25	-25.00	H
17573.00	-49.25	3.30	12.80	-41.90	-25.00	H
17839.00	-49.29	3.60	12.80	-42.24	-25.00	H

**LTE Band CA\_7C, 20MHz+20MHz, 64QAM, Channel 21152+21350**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16992.00	-54.72	2.90	16.50	-43.27	-25.00	H
17212.50	-53.21	2.90	14.50	-43.76	-25.00	H
17289.00	-52.91	3.20	14.50	-43.76	-25.00	H
17414.50	-51.58	2.90	14.50	-42.13	-25.00	H
17597.50	-49.45	3.30	12.80	-42.10	-25.00	H
17835.50	-49.79	3.60	12.80	-42.74	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16981.00	-54.64	2.90	16.50	-41.04	-25.00	H
17197.00	-53.28	2.90	14.50	-41.68	-25.00	H
17366.50	-52.61	3.20	14.50	-41.31	-25.00	H
17454.50	-51.41	2.90	14.50	-39.81	-25.00	H
17619.00	-49.48	3.30	12.80	-39.98	-25.00	H
17838.50	-49.67	3.60	12.80	-40.47	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16983.00	-53.60	2.90	16.50	-40.00	-25.00	H
17204.50	-52.27	2.90	14.50	-40.67	-25.00	H
17279.50	-51.69	3.20	14.50	-40.39	-25.00	H
17507.50	-48.82	2.90	12.80	-38.92	-25.00	H
17619.50	-47.99	3.30	12.80	-38.49	-25.00	H
17821.00	-48.34	3.60	12.80	-39.14	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, QPSK, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16942.00	-54.67	2.90	16.50	-41.07	-25.00	H
17117.50	-53.62	2.90	14.50	-42.02	-25.00	H
17346.50	-52.59	3.20	14.50	-41.29	-25.00	H
17448.00	-51.58	2.90	14.50	-39.98	-25.00	H
17576.00	-49.31	3.30	12.80	-39.81	-25.00	H
17839.00	-49.37	3.60	12.80	-40.17	-25.00	H



**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16959.50	-54.70	2.90	16.50	-41.10	-25.00	H
17165.50	-53.26	2.90	14.50	-41.66	-25.00	H
17289.00	-52.75	3.20	14.50	-41.45	-25.00	H
17458.50	-51.63	2.90	14.50	-40.03	-25.00	H
17576.00	-49.50	3.30	12.80	-40.00	-25.00	H
17840.00	-49.37	3.60	12.80	-40.17	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16991.50	-54.39	2.90	16.50	-40.79	-25.00	H
17206.50	-53.23	2.90	14.50	-41.63	-25.00	H
17368.50	-52.06	3.20	14.50	-40.76	-25.00	H
17453.00	-51.06	2.90	14.50	-39.46	-25.00	H
17608.00	-48.70	3.30	12.80	-39.20	-25.00	H
17837.00	-49.02	3.60	12.80	-39.82	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 16QAM, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16965.00	-54.70	2.90	16.50	-41.10	-25.00	H
17185.50	-53.30	2.90	14.50	-41.70	-25.00	H
17368.00	-52.83	3.20	14.50	-41.53	-25.00	H
17460.00	-51.43	2.90	14.50	-39.83	-25.00	H
17526.00	-49.53	2.90	12.80	-39.63	-25.00	H
17829.50	-49.10	3.60	12.80	-39.90	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37850+38048**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.00	-54.91	2.90	16.50	-41.31	-25.00	H
17192.00	-53.71	2.90	14.50	-42.11	-25.00	H
17277.00	-52.80	3.20	14.50	-41.50	-25.00	H
17524.00	-49.77	2.90	12.80	-39.87	-25.00	H
17526.50	-49.73	2.90	12.80	-39.83	-25.00	H
17840.00	-49.54	3.60	12.80	-40.34	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37901+38099**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.50	-54.87	2.90	16.50	-41.27	-25.00	H
17208.50	-53.76	2.90	14.50	-42.16	-25.00	H
17296.00	-52.78	3.20	14.50	-41.48	-25.00	H
17505.00	-49.85	2.90	12.80	-39.95	-25.00	H
17592.00	-49.36	3.30	12.80	-39.86	-25.00	H
17840.00	-49.73	3.60	12.80	-40.53	-25.00	H

**LTE Band CA\_38C, 20MHz+20MHz, 64QAM, Channel 37952+38150**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16960.50	-53.72	2.90	16.50	-40.12	-25.00	H
17188.00	-51.95	2.90	14.50	-40.35	-25.00	H
17280.50	-51.08	3.20	14.50	-39.78	-25.00	H
17449.00	-49.87	2.90	14.50	-38.27	-25.00	H
17615.50	-47.81	3.30	12.80	-38.31	-25.00	H
17840.00	-47.59	3.60	12.80	-38.39	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16965.00	-54.34	2.90	16.50	-40.74	-25.00	H
17214.00	-53.65	2.90	14.50	-42.05	-25.00	H
17299.00	-52.81	3.20	14.50	-41.51	-25.00	H
17459.50	-51.19	2.90	14.50	-39.59	-25.00	H
17594.00	-49.20	3.30	12.80	-39.70	-25.00	H
17839.00	-49.64	3.60	12.80	-40.44	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16982.50	-54.97	2.90	16.50	-41.37	-25.00	H
17189.00	-53.64	2.90	14.50	-42.04	-25.00	H
17364.50	-52.82	3.20	14.50	-41.52	-25.00	H
17450.00	-51.39	2.90	14.50	-39.79	-25.00	H
17584.00	-49.28	3.30	12.80	-39.78	-25.00	H
17838.00	-49.53	3.60	12.80	-40.33	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, QPSK, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16951.50	-54.78	2.90	16.50	-41.18	-25.00	H
17117.00	-52.80	2.90	14.50	-41.20	-25.00	H
17437.50	-51.36	2.90	14.50	-39.76	-25.00	H
17625.00	-49.31	3.30	12.80	-39.81	-25.00	H
17838.00	-49.44	3.60	12.80	-40.24	-25.00	H
17968.00	-47.50	3.20	12.80	-37.90	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16962.00	-54.70	2.90	16.50	-41.10	-25.00	H
17213.50	-53.63	2.90	14.50	-42.03	-25.00	H
17279.00	-52.54	3.20	14.50	-41.24	-25.00	H
17461.00	-51.18	2.90	14.50	-39.58	-25.00	H
17526.50	-49.83	2.90	12.80	-39.93	-25.00	H
17840.00	-49.35	3.60	12.80	-40.15	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16978.50	-54.49	2.90	16.50	-40.89	-25.00	H
17123.00	-53.70	2.90	14.50	-42.10	-25.00	H
17279.50	-52.75	3.20	14.50	-41.45	-25.00	H
17508.00	-49.75	2.90	12.80	-39.85	-25.00	H
17622.00	-49.17	3.30	12.80	-39.67	-25.00	H
17839.00	-49.52	3.60	12.80	-40.32	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 16QAM, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16985.50	-54.80	2.90	16.50	-41.20	-25.00	H
17358.50	-53.06	3.20	14.50	-41.76	-25.00	H
17457.50	-51.47	2.90	14.50	-39.87	-25.00	H
17623.50	-49.49	3.30	12.80	-39.99	-25.00	H
17840.00	-49.28	3.60	12.80	-40.08	-25.00	H
17984.50	-47.65	3.20	12.80	-38.05	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40140+40338**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16987.50	-54.86	2.90	16.50	-41.26	-25.00	H
17214.00	-53.34	2.90	14.50	-41.74	-25.00	H
17285.00	-52.86	3.20	14.50	-41.56	-25.00	H
17455.50	-51.47	2.90	14.50	-39.87	-25.00	H
17615.50	-49.30	3.30	12.80	-39.80	-25.00	H
17838.00	-49.41	3.60	12.80	-40.21	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40541+40739**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16959.50	-54.87	2.90	16.50	-41.27	-25.00	H
17180.00	-53.58	2.90	14.50	-41.98	-25.00	H
17304.00	-52.81	3.20	14.50	-41.51	-25.00	H
17458.50	-51.41	2.90	14.50	-39.81	-25.00	H
17529.00	-50.02	2.90	12.80	-40.12	-25.00	H
17824.00	-49.73	3.60	12.80	-40.53	-25.00	H

**LTE Band CA\_41C, 20MHz+20MHz, 64QAM, Channel 40942+41140**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16955.50	-54.61	2.90	16.50	-41.01	-25.00	H
17165.50	-53.60	2.90	14.50	-42.00	-25.00	H
17364.50	-52.91	3.20	14.50	-41.61	-25.00	H
17456.50	-51.51	2.90	14.50	-39.91	-25.00	H
17565.00	-49.37	3.30	12.80	-39.87	-25.00	H
17835.50	-49.52	3.60	12.80	-40.32	-25.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.82\text{dB}(30\text{MHz}-3\text{GHz})/3.06\text{dB}(3\text{GHz}-18\text{GHz})/2.40\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

### **A.3 FREQUENCY STABILITY**

#### **A.3.1 Method of Measurement**

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as  $F_L$  and  $F_H$  respectively.

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 CMW500

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

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 the lower, higher and nominal voltage. 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.

**A.3.2 Measurement results**
**LTE Band 2, 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	1850.790	1909.200		
50				-0.14	0.0001
40				-0.46	0.0002
30				0.33	0.0002
10				-0.23	0.0001
0				-0.03	0.0000
-10				0.80	0.0004
-20				0.29	0.0002
-30				0.40	0.0002

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1850.790	1909.200	1.10	0.0006
4.48				0.01	0.0000

 Expanded measurement uncertainty is 10 Hz,  $k = 2$ 
**LTE Band 4, 10MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
50	3.89	1710.790	1754.230		
40				-0.07	0.0000
30				-0.21	0.0001
20				-0.10	0.0001
10				0.53	0.0003
0				-0.29	0.0002
-10				-0.17	0.0001
-20				0.39	0.0002
-30				0.44	0.0003

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1710.790	1754.230	0.39	0.0002
4.48				-0.09	0.0000

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

**LTE Band 5, 5MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
50	3.89	824.370	848.620		
40				0.04	0.0001
30				-0.32	0.0004
20				-0.56	0.0007
10				-0.30	0.0004
0				-0.36	0.0004
-10				0.00	0.0000
-20				0.07	0.0001
-30				0.11	0.0001

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	824.370	848.620	-0.40	0.0005
4.48				-0.20	0.0002

 Expanded measurement uncertainty is 10 Hz,  $k = 2$ 
**LTE Band 7, 5MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2500.500	2569.520		
50				-0.49	0.0002
40				0.22	0.0001
30				-0.62	0.0002
10				-0.69	0.0003
0				-0.10	0.0000
-10				-0.92	0.0004
-20				-0.76	0.0003
-30				0.16	0.0001

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2500.500	2569.520	0.14	0.0001
4.48				0.40	0.0002

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



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

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	699.450	715.550		
50				0.20	0.0003
40				0.29	0.0004
30				0.47	0.0007
10				-0.29	0.0004
0				-0.09	0.0001
-10				0.66	0.0009
-20				-0.03	0.0000
-30				0.24	0.0003

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	699.450	715.550	0.29	0.0004
4.48				0.00	0.0000

Expanded measurement uncertainty is 10Hz, k = 2

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

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	777.465	786.536		
50				0.27	0.0003
40				0.92	0.0012
30				0.13	0.0002
10				0.13	0.0002
0				0.06	0.0001
-10				0.13	0.0002
-20				-0.60	0.0008
-30				0.56	0.0007

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	777.465	786.536	1.50	0.0019
4.48				0.63	0.0008

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 17, 10MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
50	3.89	704.370	715.630		
40				-0.04	0.0001
30				-0.33	0.0005
20				-0.73	0.0010
10				0.20	0.0003
0				-0.46	0.0006
-10				-0.40	0.0006
-20				-0.42	0.0006
-30				-0.10	0.0001

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	704.370	715.630	-0.06	0.0001
4.48				0.01	0.0000

Expanded measurement uncertainty is 10Hz, k = 2

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

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	814.370	823.680		
50				1.10	0.0013
40				1.37	0.0017
30				-0.30	0.0004
10				0.59	0.0007
0				1.56	0.0019
-10				1.39	0.0017
-20				1.17	0.0014
-30				0.40	0.0005

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	814.370	823.680	-0.72	0.0009
4.48				0.26	0.0003

Expanded measurement uncertainty is 10Hz, k = 2

**LTE band 26(824MHz-849MHz), 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	824.490	848.470		
50				-0.64	0.0008
40				-0.32	0.0004
30				1.09	0.0013
10				1.53	0.0018
0				1.40	0.0017
-10				0.99	0.0012
-20				2.49	0.0030
-30				1.37	0.0016

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	824.490	848.470	1.07	0.0013
4.48				0.33	0.0004

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 38, 5MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2570.520	2619.480		
50				-0.29	0.0001
40				-0.36	0.0001
30				-0.64	0.0002
10				0.53	0.0002
0				-0.39	0.0001
-10				-1.23	0.0005
-20				0.69	0.0003
-30				-0.77	0.0003

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2570.520	2619.480	-0.79	0.0003
4.48				-0.54	0.0002

Expanded measurement uncertainty is 10 Hz, k = 2

**LTE band 41, 20MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2496.460	2689.440		
50				-0.43	0.0002
40				0.44	0.0002
30				-0.53	0.0002
10				-0.09	0.0000
0				-0.67	0.0003
-10				0.36	0.0001
-20				-0.36	0.0001
-30				-1.02	0.0004

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2496.460	2689.440	0.27	0.0001
4.48				-0.70	0.0003

Expanded measurement uncertainty is 10 Hz, k = 2

**LTE Band 66, 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	1710.780	1779.240		
50				-0.09	0.0000
40				0.29	0.0002
30				0.00	0.0000
10				0.32	0.0002
0				-0.26	0.0001
-10				-0.60	0.0003
-20				-0.59	0.0003
-30				-0.23	0.0001

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1710.780	1779.240	-0.30	0.0002
4.48				0.67	0.0004

Expanded measurement uncertainty is 10Hz, k = 2



**LTE CA\_7C, 20MHz+20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2500.520	2569.500		
50				0.45	0.0002
40				-1.17	0.0005
30				-0.30	0.0001
10				-0.27	0.0001
0				-0.28	0.0001
-10				0.85	0.0003
-20				-0.17	0.0001
-30				0.79	0.0003

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2500.520	2569.500	1.65	0.0007
4.48				2.05	0.0008

Expanded measurement uncertainty is 10Hz, k = 2

**LTE CA\_38C, 20MHz+20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2570.580	2619.420		
50				-0.03	0.0000
40				0.39	0.0001
30				1.10	0.0004
10				0.64	0.0002
0				1.38	0.0005
-10				0.53	0.0002
-20				0.35	0.0001
-30				0.65	0.0003

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2570.580	2619.420	1.01	0.0004
4.48				1.77	0.0007

Expanded measurement uncertainty is 10Hz, k = 2



**LTE CA\_41C, 20MHz+20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.89	2496.530	2689.250		
50				-0.19	0.0001
40				-0.17	0.0001
30				0.08	0.0000
10				0.99	0.0004
0				0.48	0.0002
-10				1.11	0.0004
-20				1.99	0.0008
-30				0.12	0.0000

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2496.530	2689.250	2.05	0.0008
4.48				0.70	0.0003

Expanded measurement uncertainty is 10Hz, k = 2

#### **A.4 OCCUPIED BANDWIDTH**

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 frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

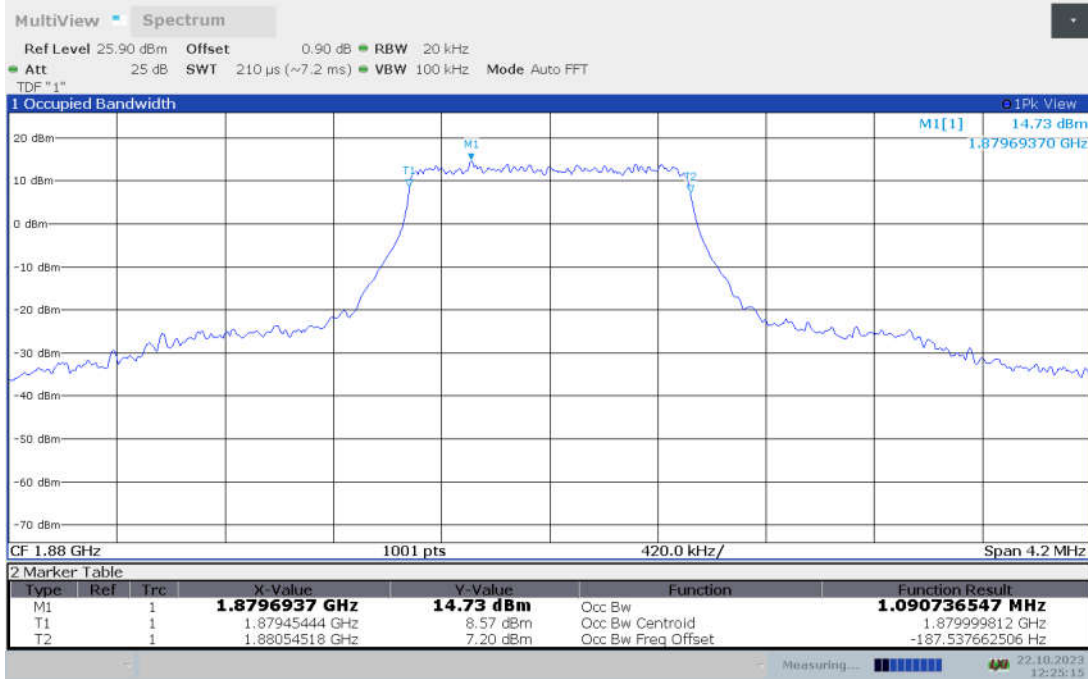
The measurement method is from ANSI C63.26:

- 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.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set  $\geq 3 \times$  RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

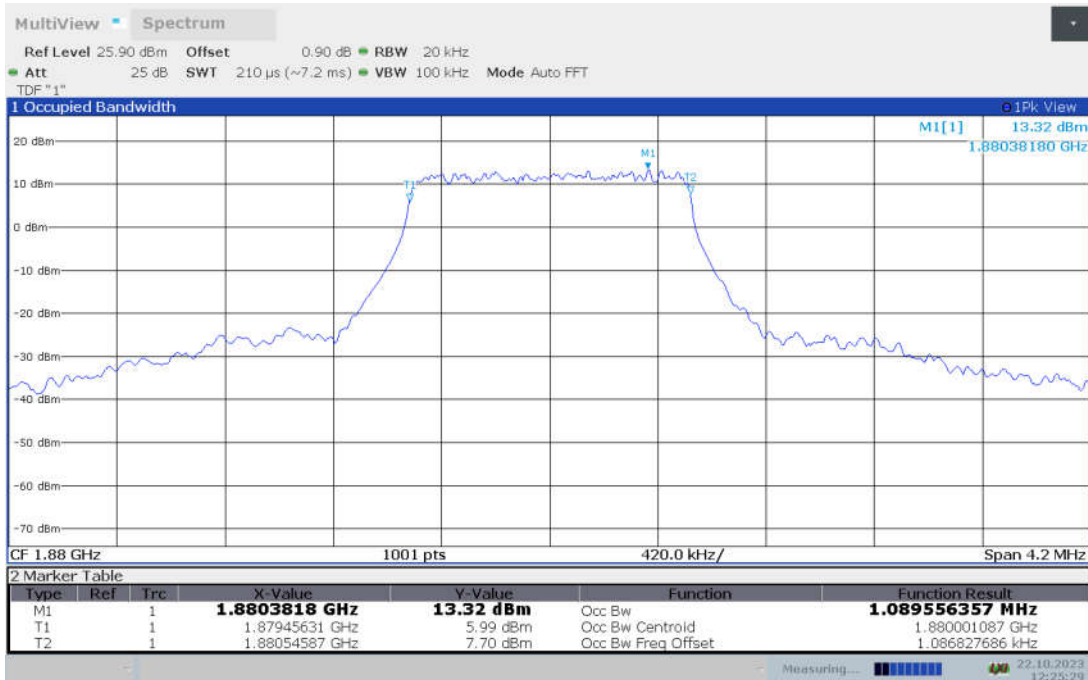
**LTE band 2,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	1.091	1.090

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



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



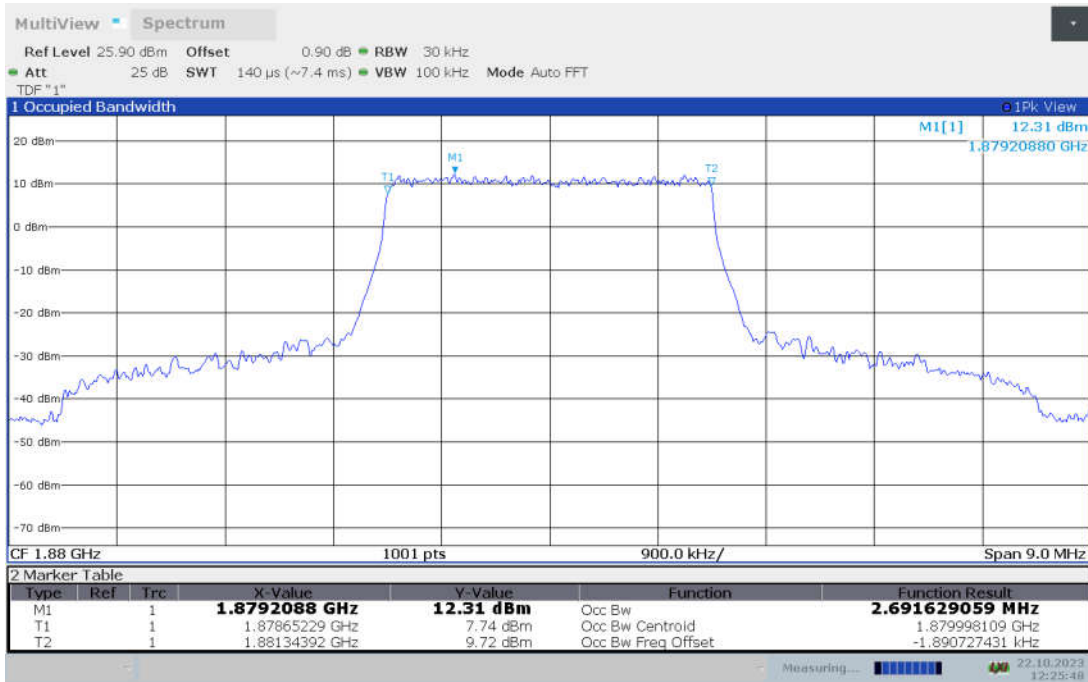




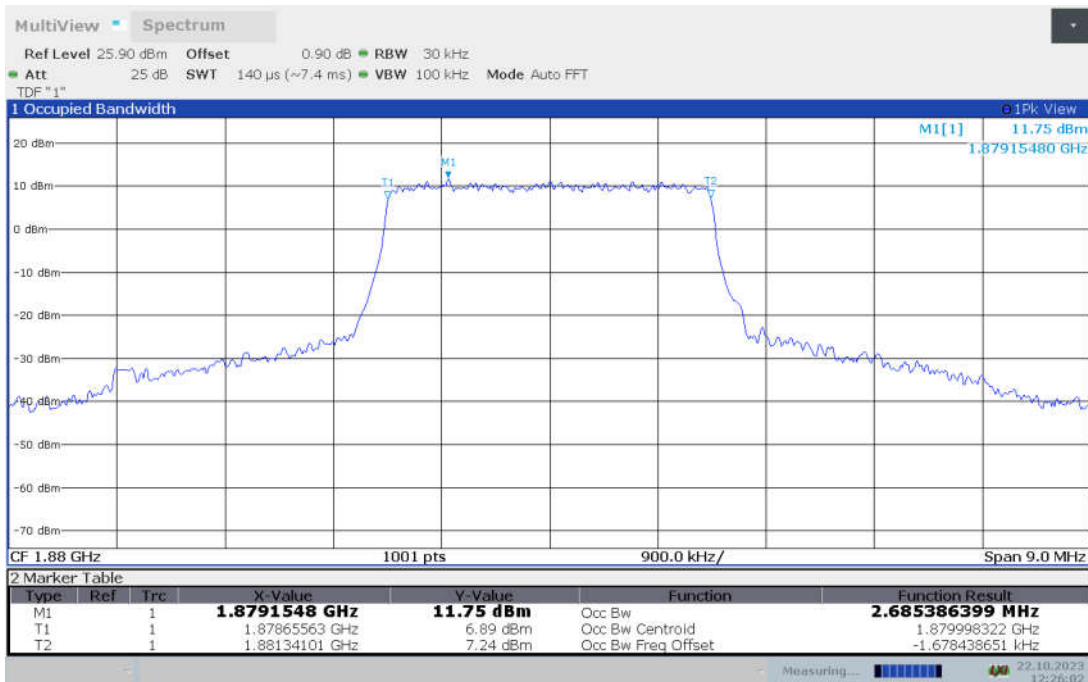
**LTE band 2,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	2.692	2.685

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



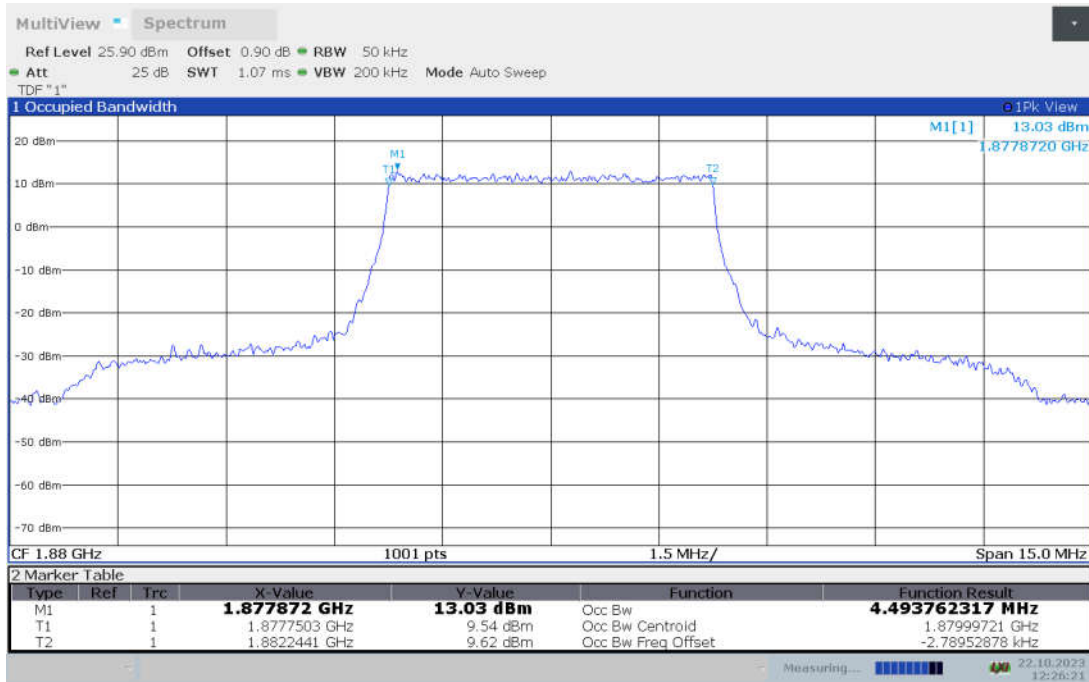
**LTE band 2 , 3MHz Bandwidth, MID, 16QAM (99% BW)**



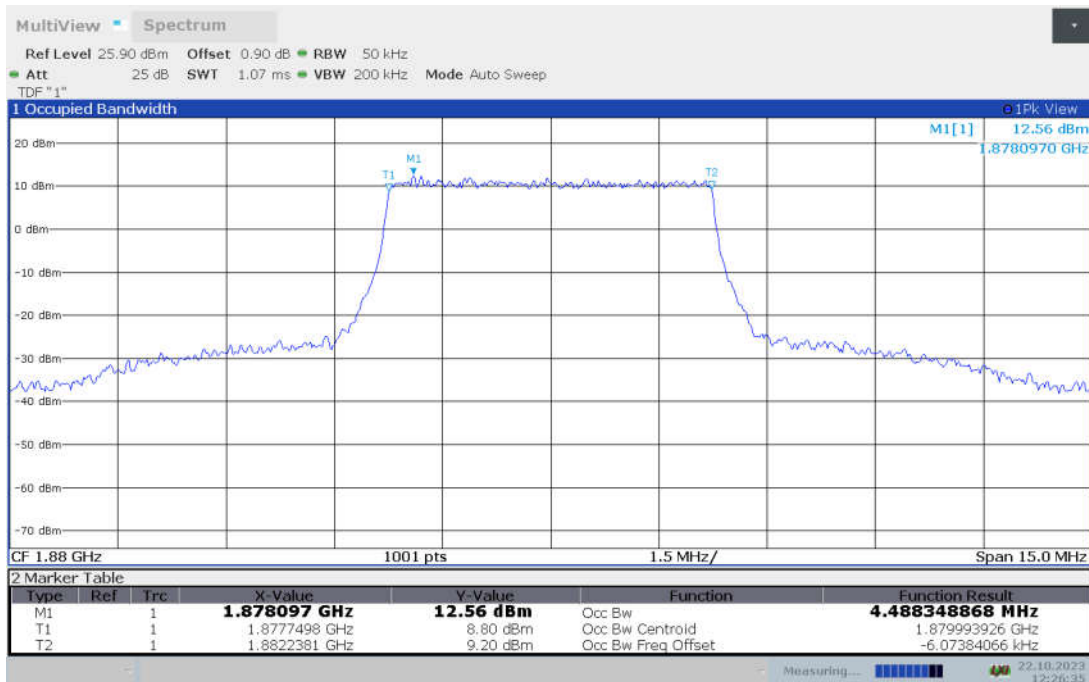
**LTE band 2,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	4.494	4.488

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



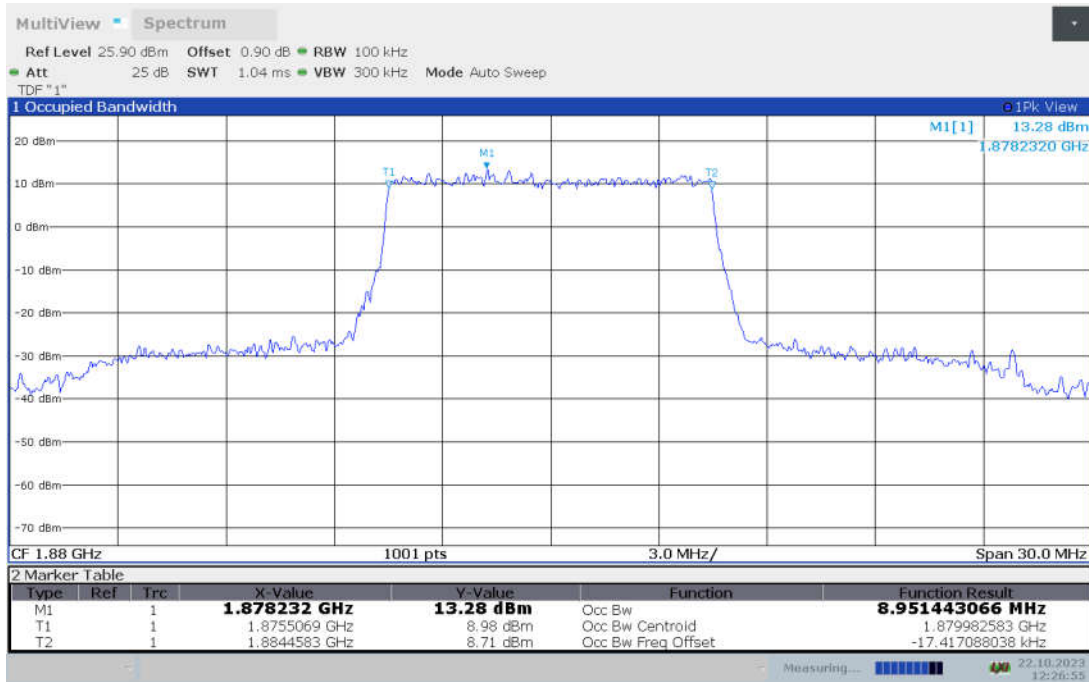
**LTE band 2 , 5MHz Bandwidth, MID, 16QAM (99% BW)**



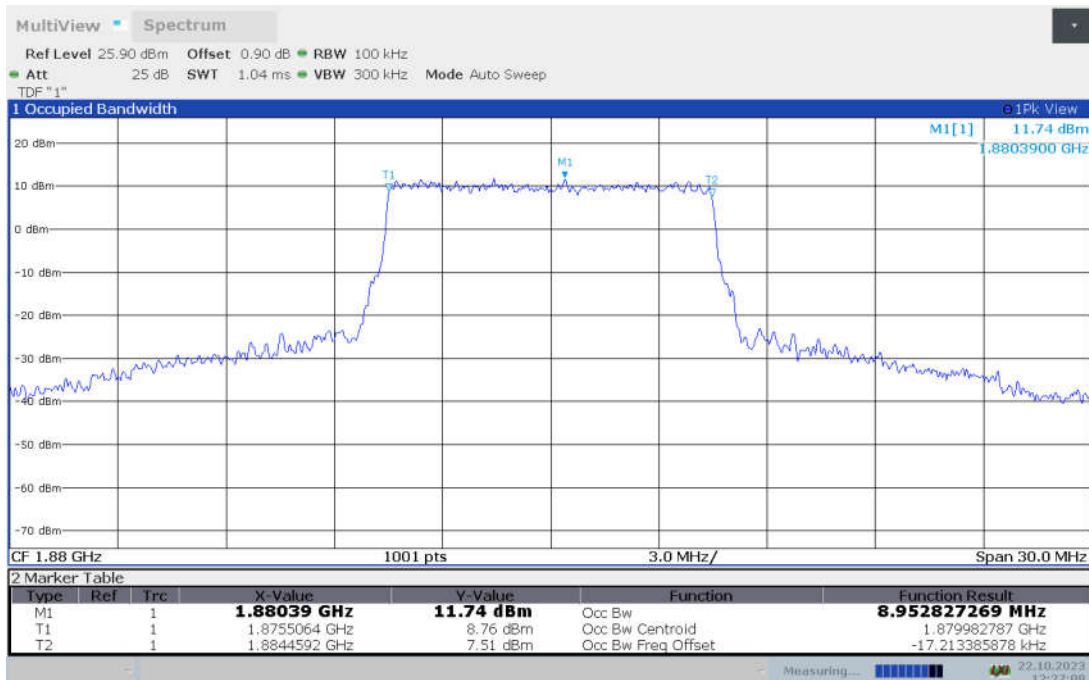
**LTE band 2,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	8.951	8.953

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



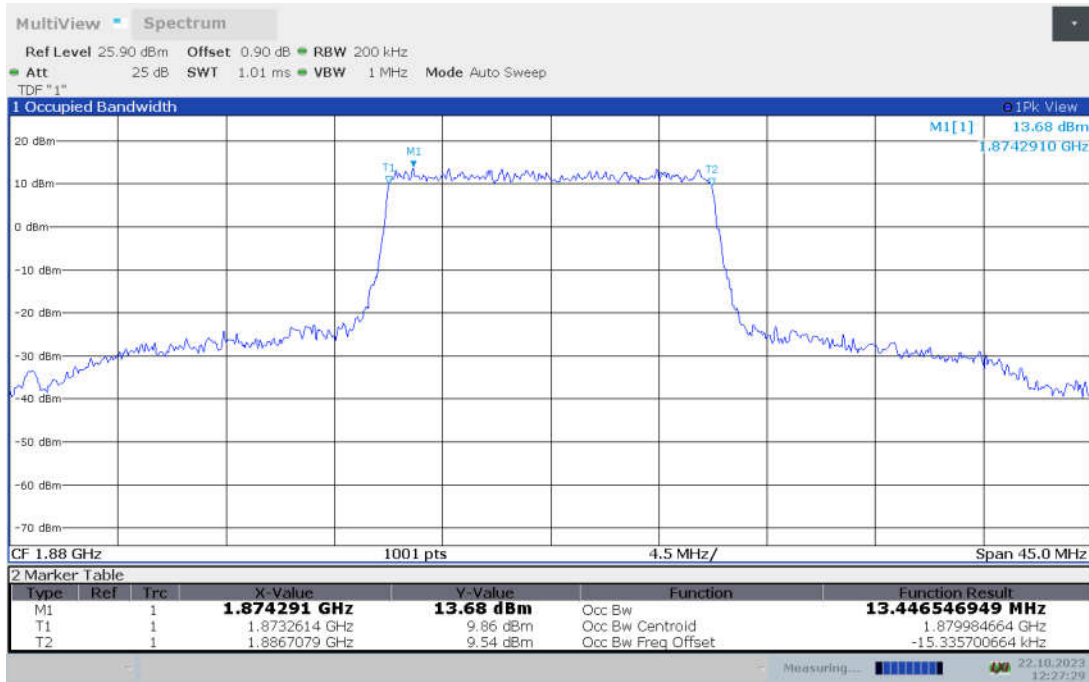
**LTE band 2 , 10MHz Bandwidth, MID, 16QAM (99% BW)**



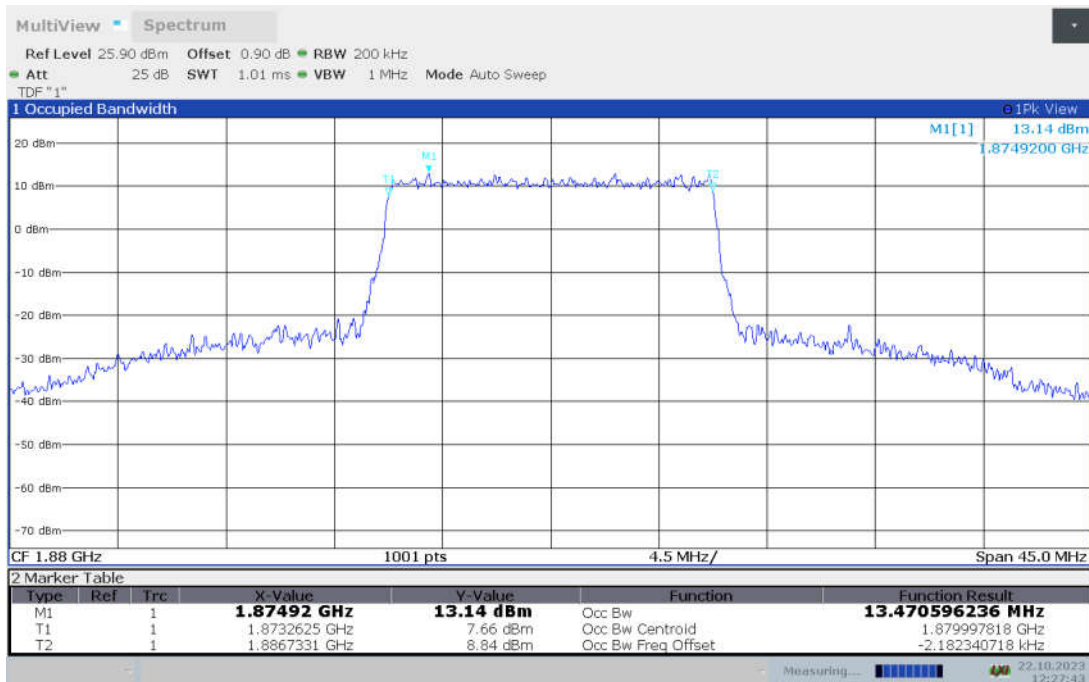
**LTE band 2,15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	13.447	13.471

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



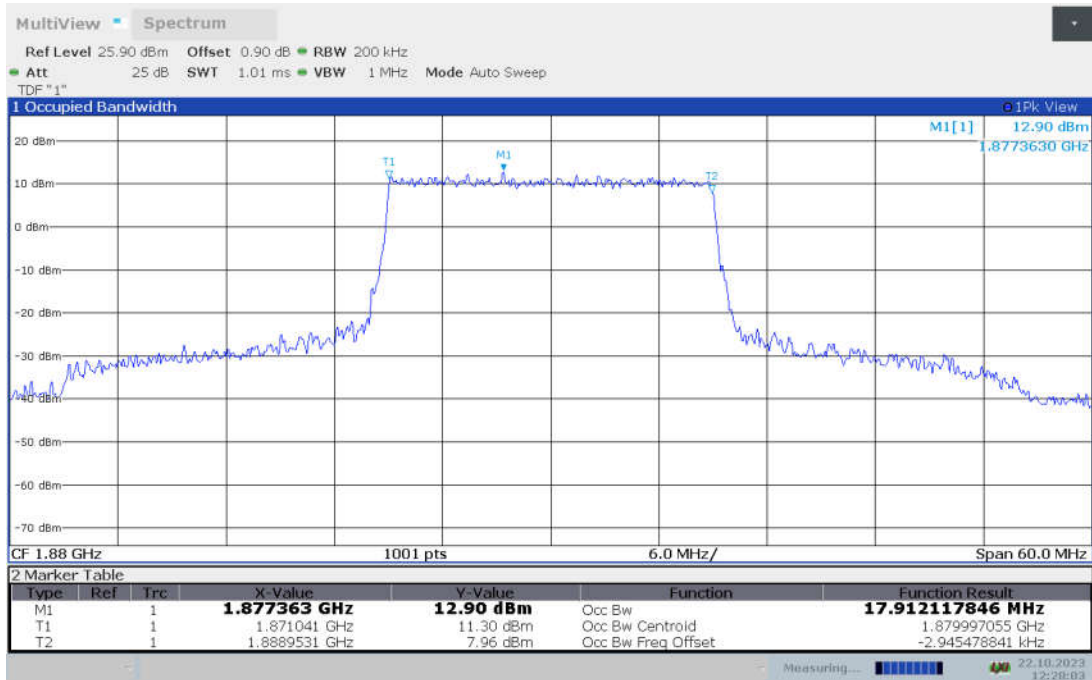
**LTE band 2 , 15MHz Bandwidth, MID, 16QAM (99% BW)**



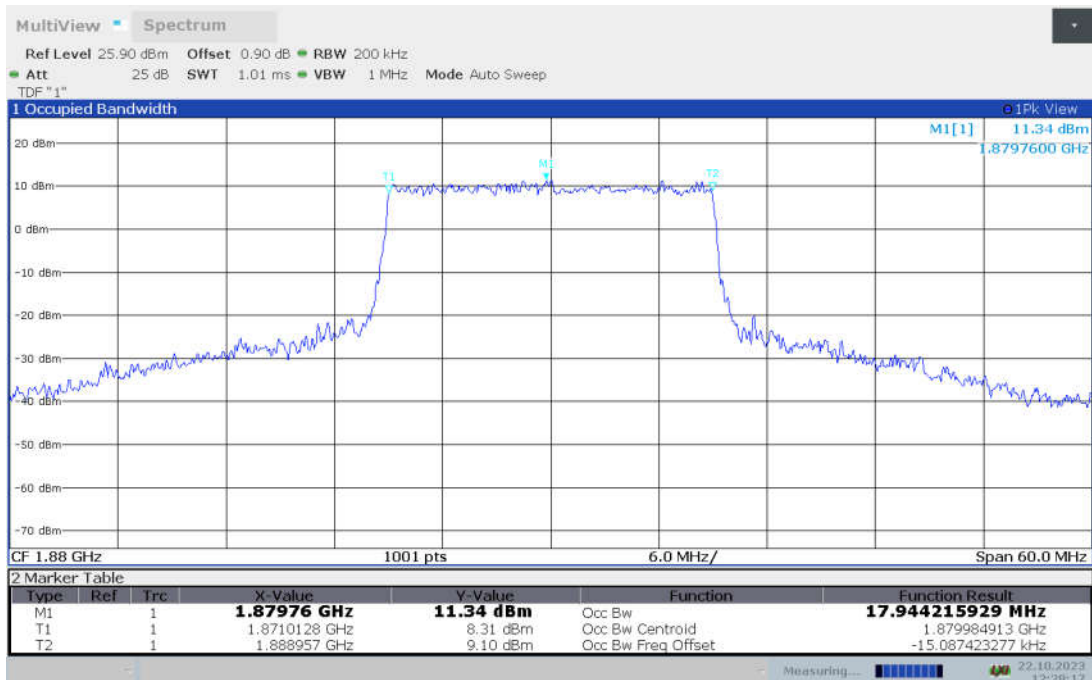
**LTE band 2,20MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1880	17.912	17.944

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



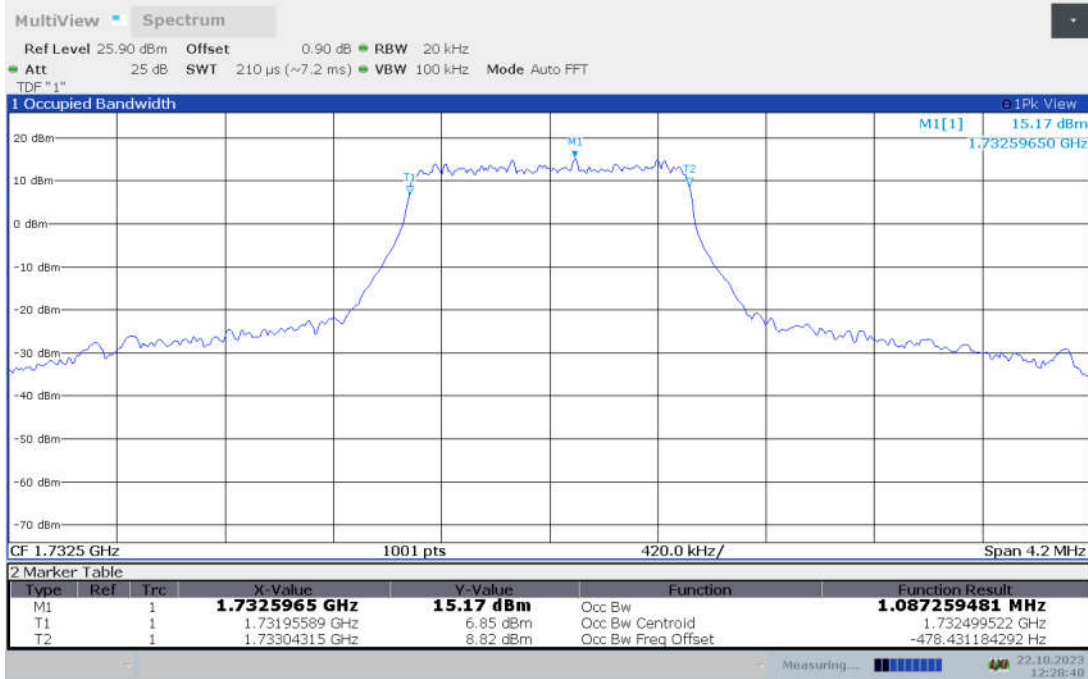
**LTE band 2 , 20MHz Bandwidth, MID, 16QAM (99% BW)**



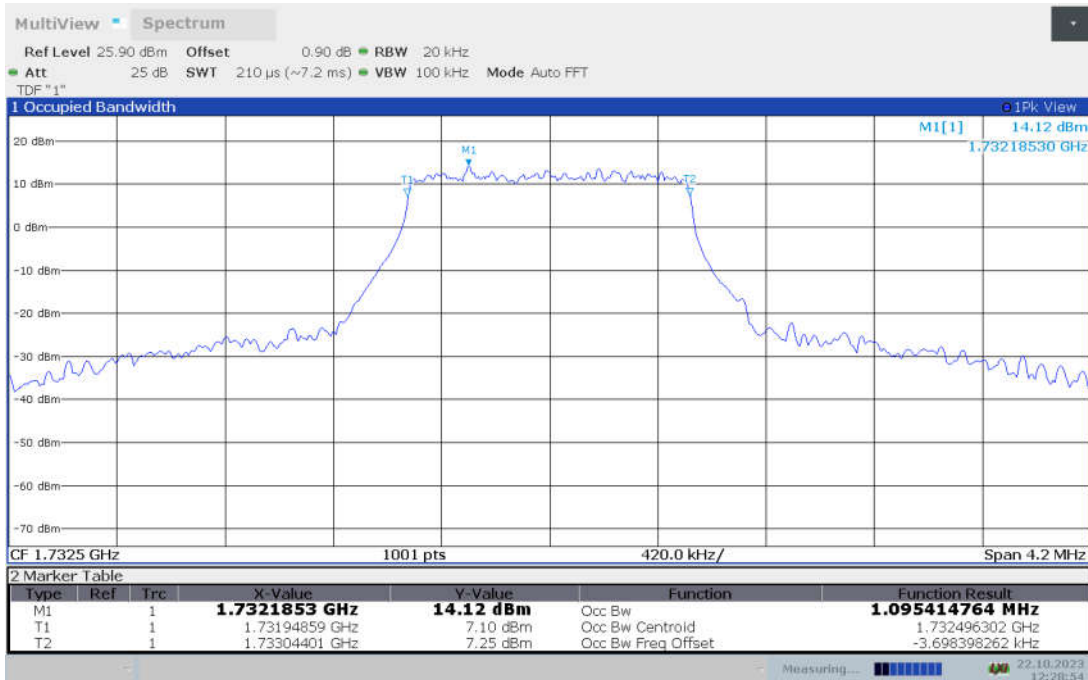
**LTE band 4,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	1.087	1.095

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



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

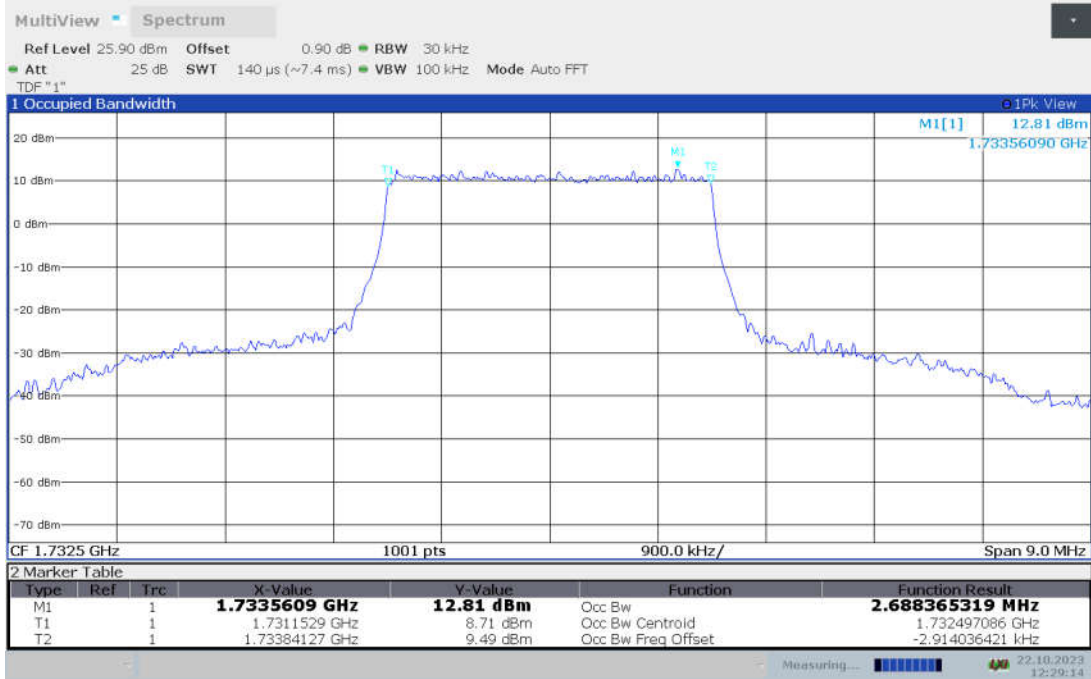




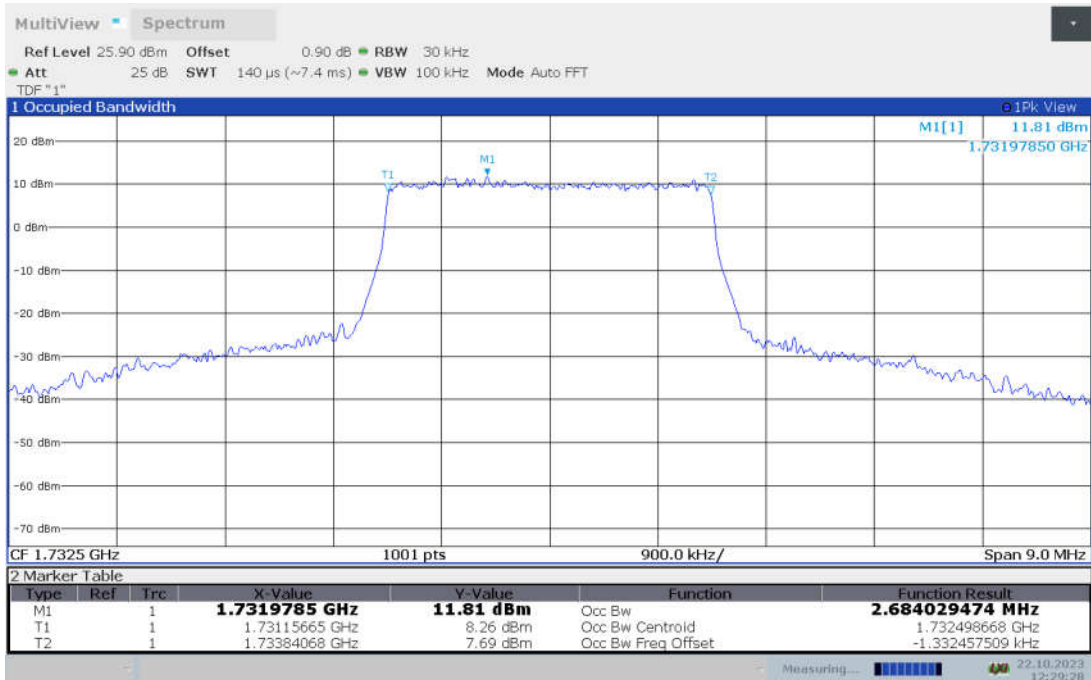
**LTE band 4,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	2.688	2.684

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



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

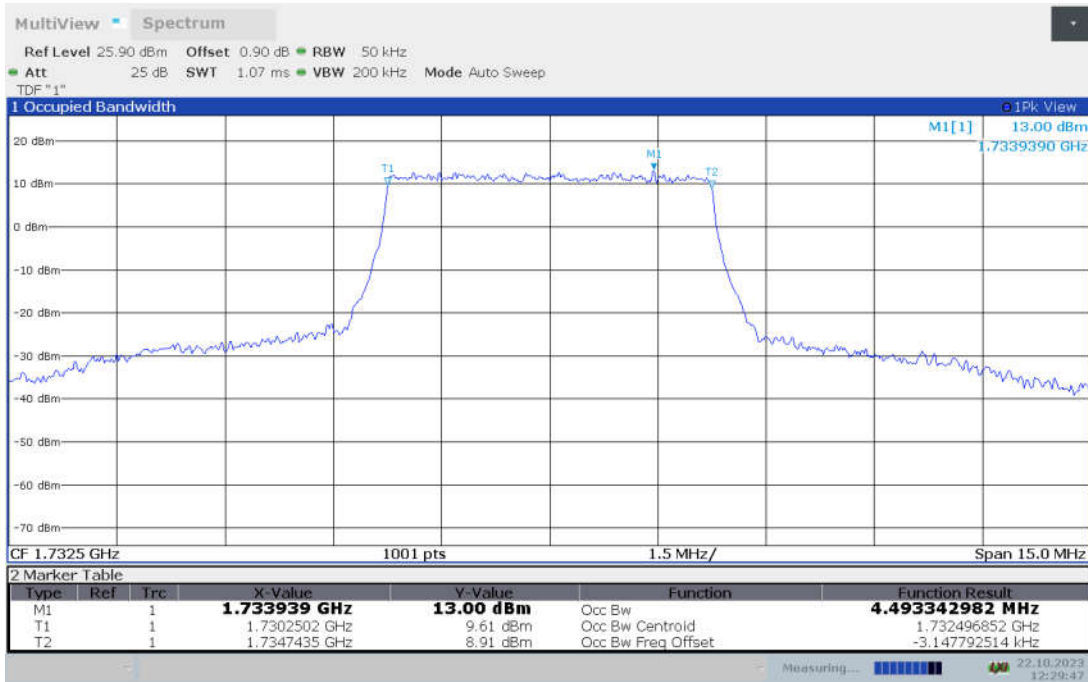




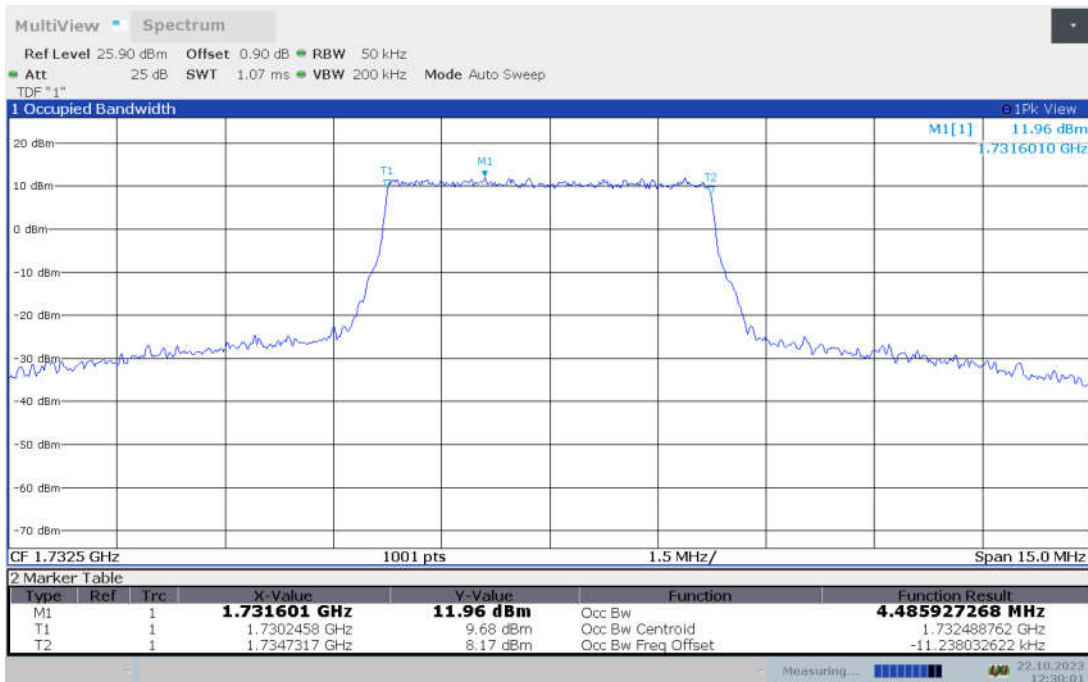
**LTE band 4,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	4.493	4.486

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



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



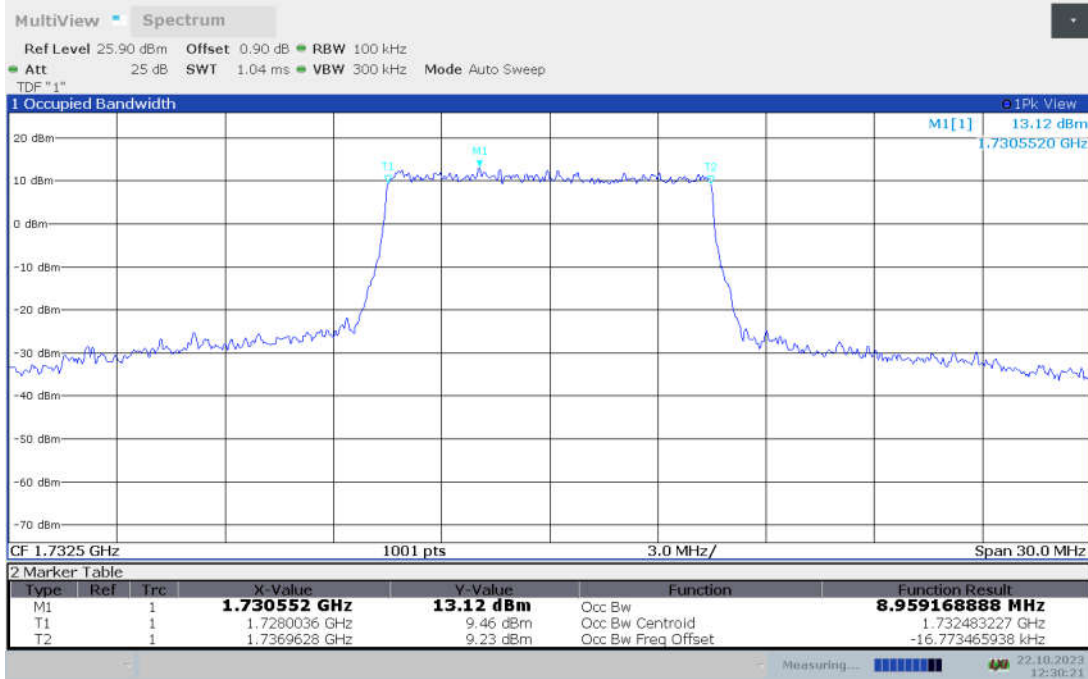




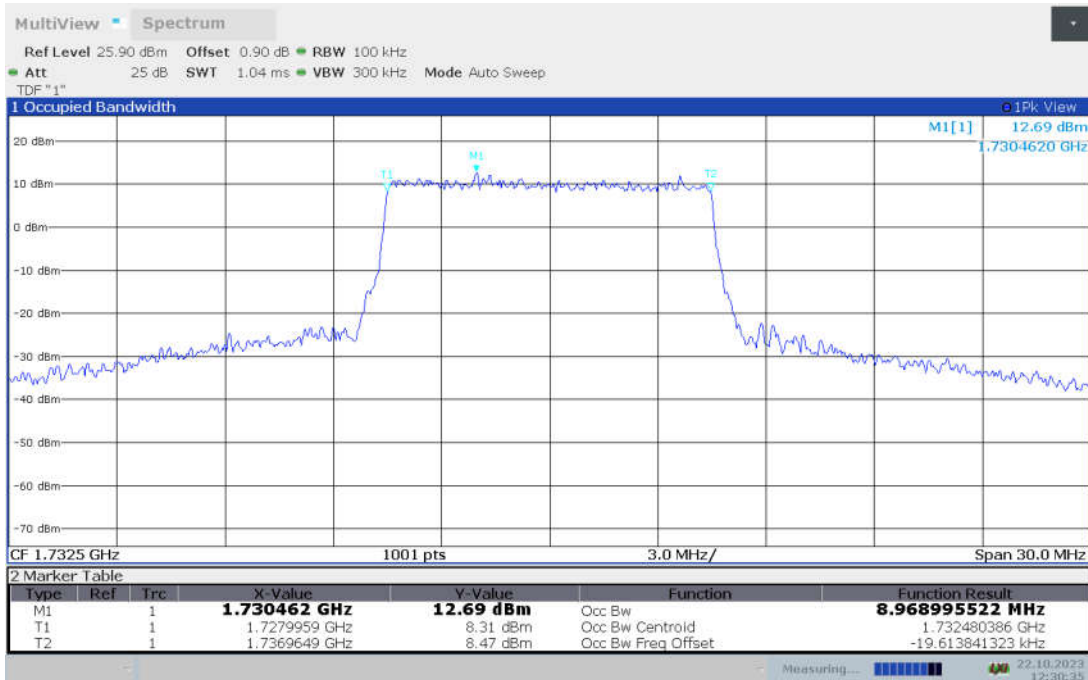
**LTE band 4,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	8.959	8.969

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



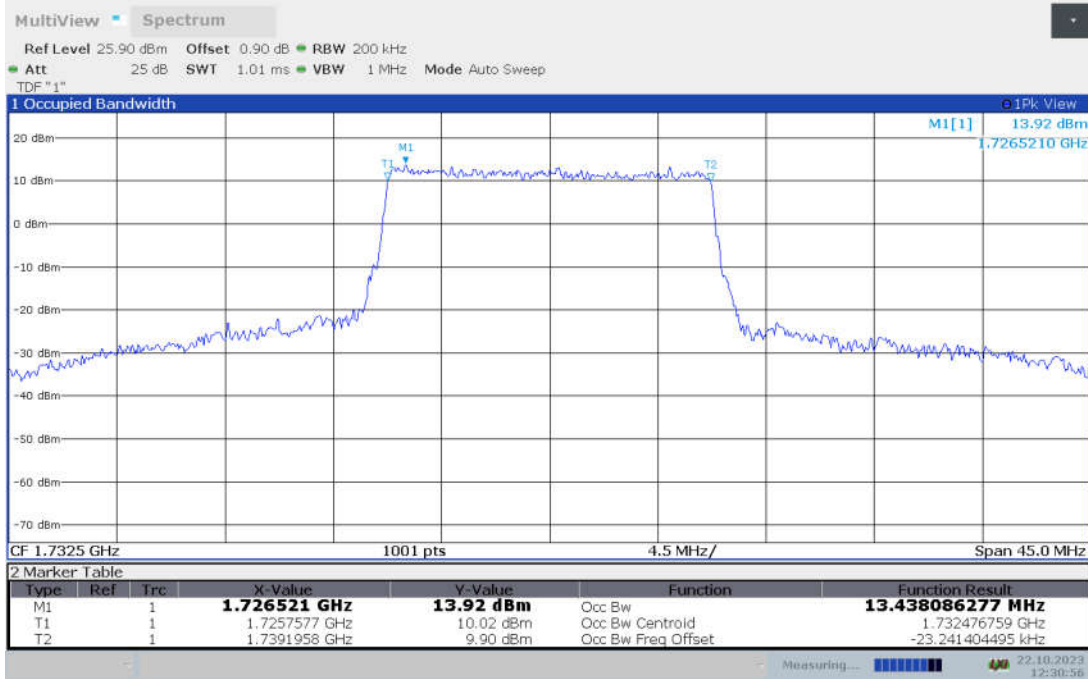
**LTE band 4 , 10MHz Bandwidth, MID, 16QAM (99% BW)**



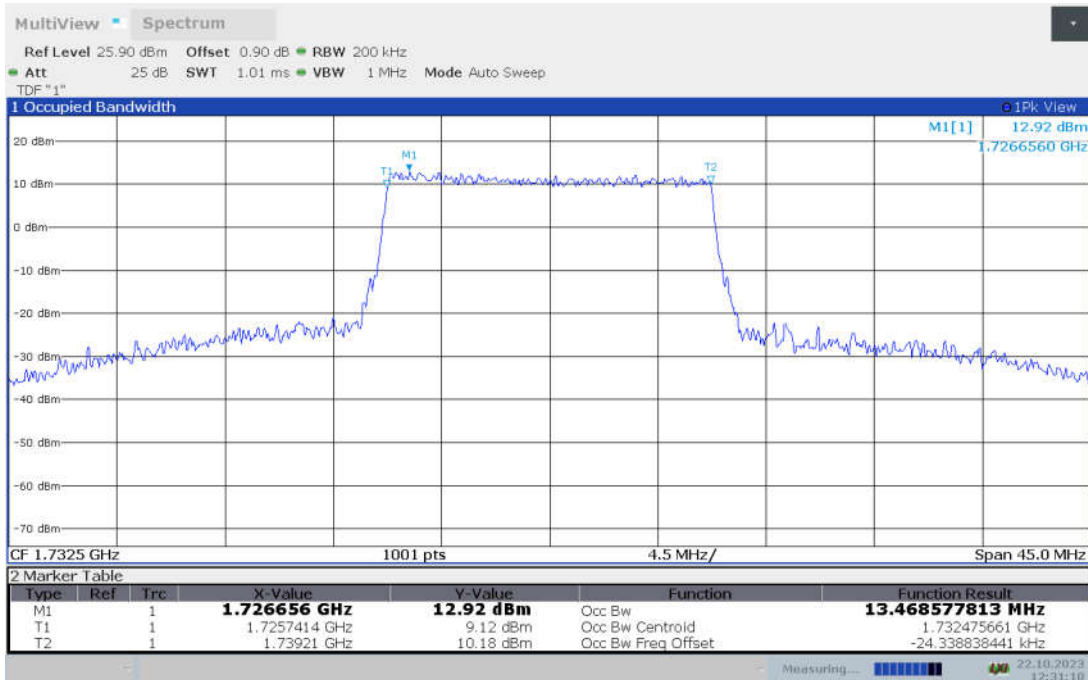
**LTE band 4,15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	13.438	13.469

**LTE band 4 , 15MHz Bandwidth, MID, QPSK (99% BW)**



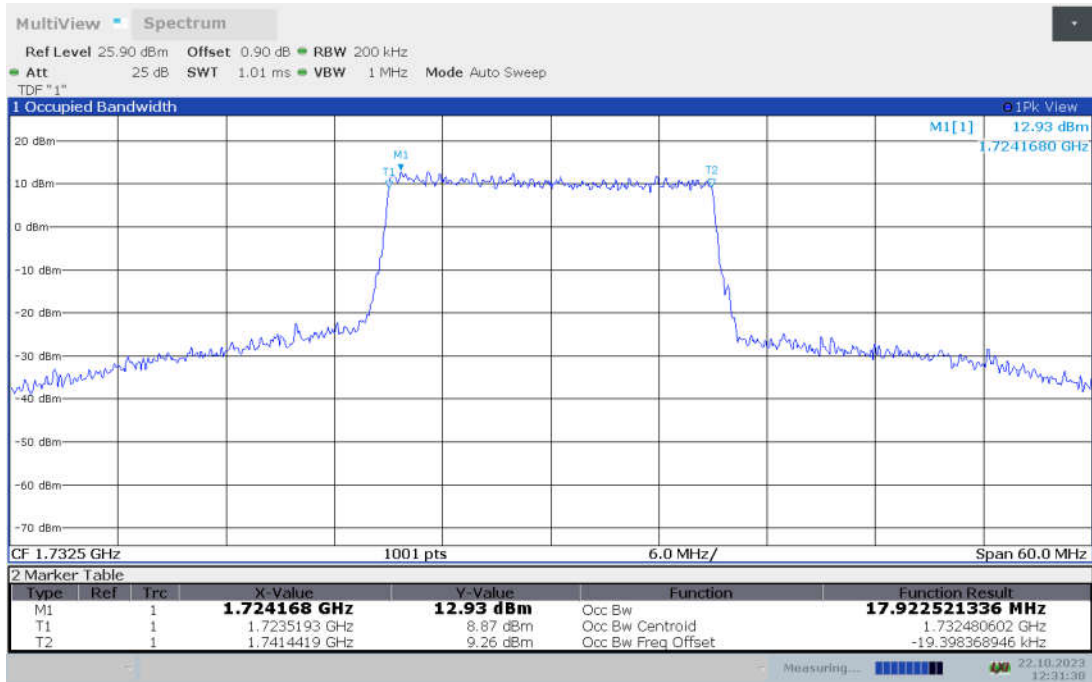
**LTE band 4 , 15MHz Bandwidth, MID, 16QAM (99% BW)**



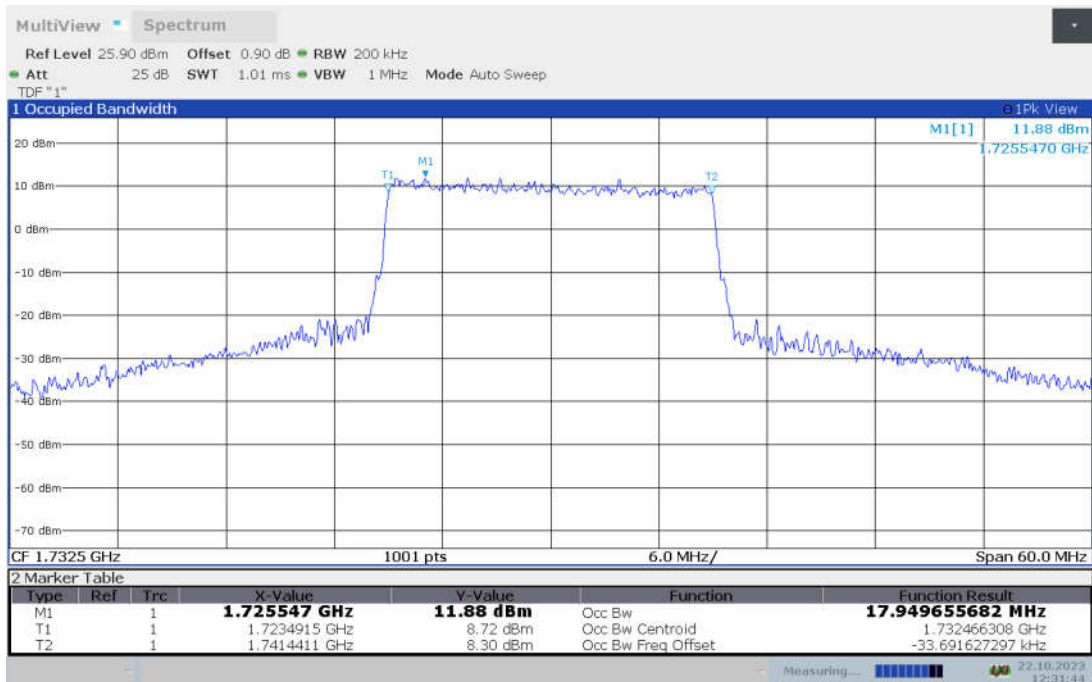
**LTE band 4,20MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1732.5	17.923	17.950

**LTE band 4 , 20MHz Bandwidth, MID, QPSK (99% BW)**



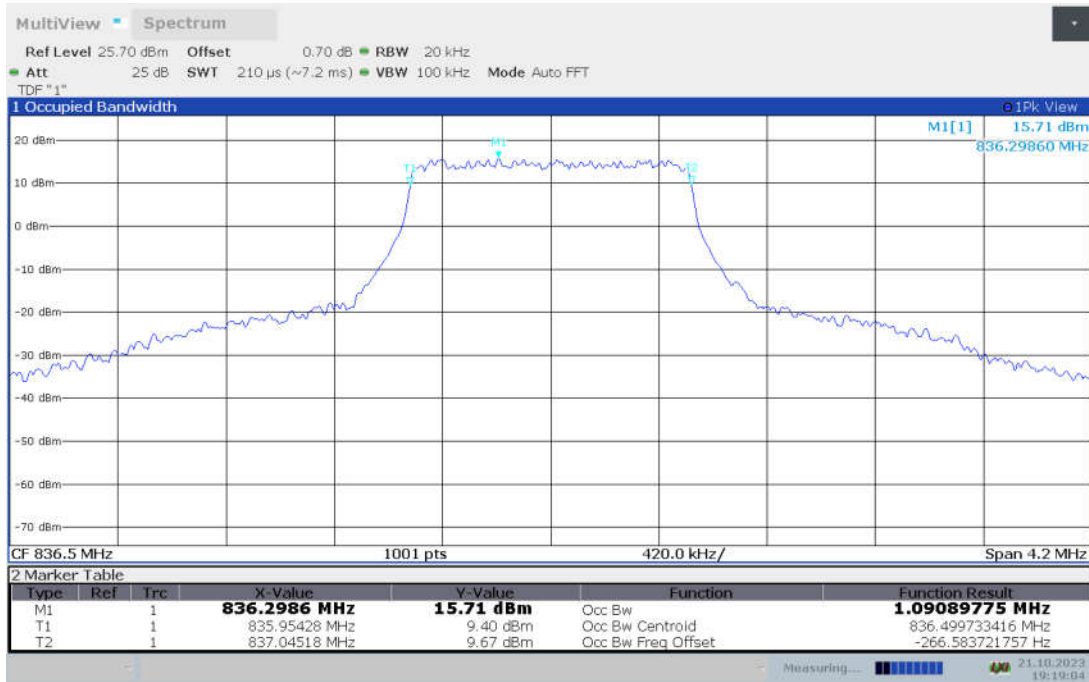
**LTE band 4 , 20MHz Bandwidth, MID, 16QAM (99% BW)**



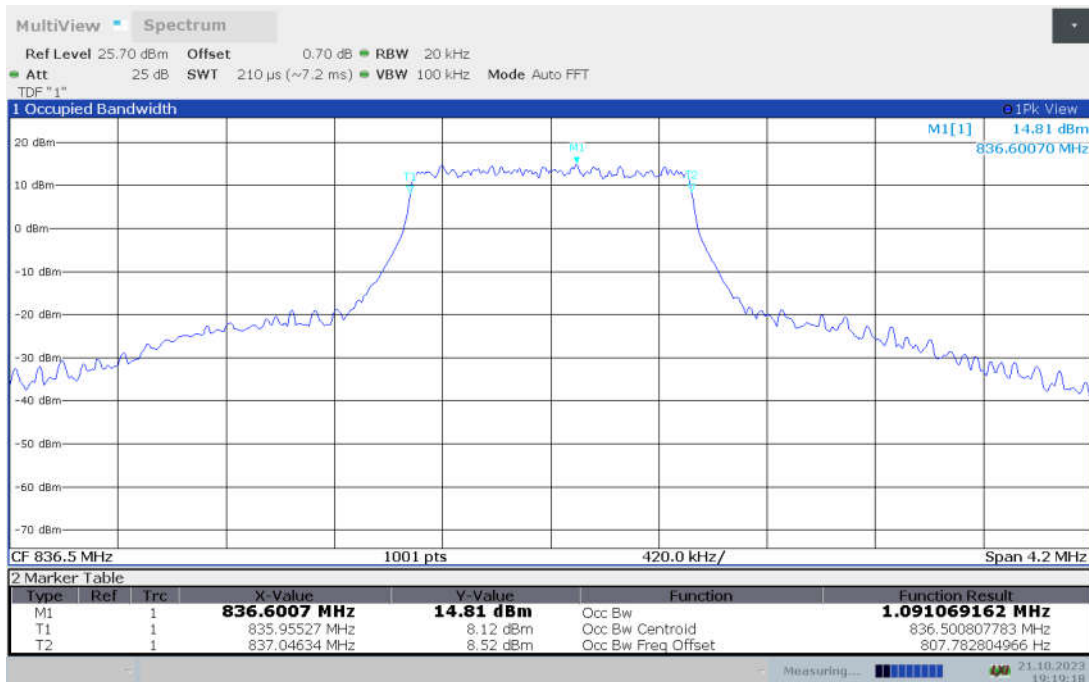
**LTE band 5,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
836.5	1.091	1.091

**LTE band 5 , 1.4MHz Bandwidth, MID, QPSK (99% BW)**



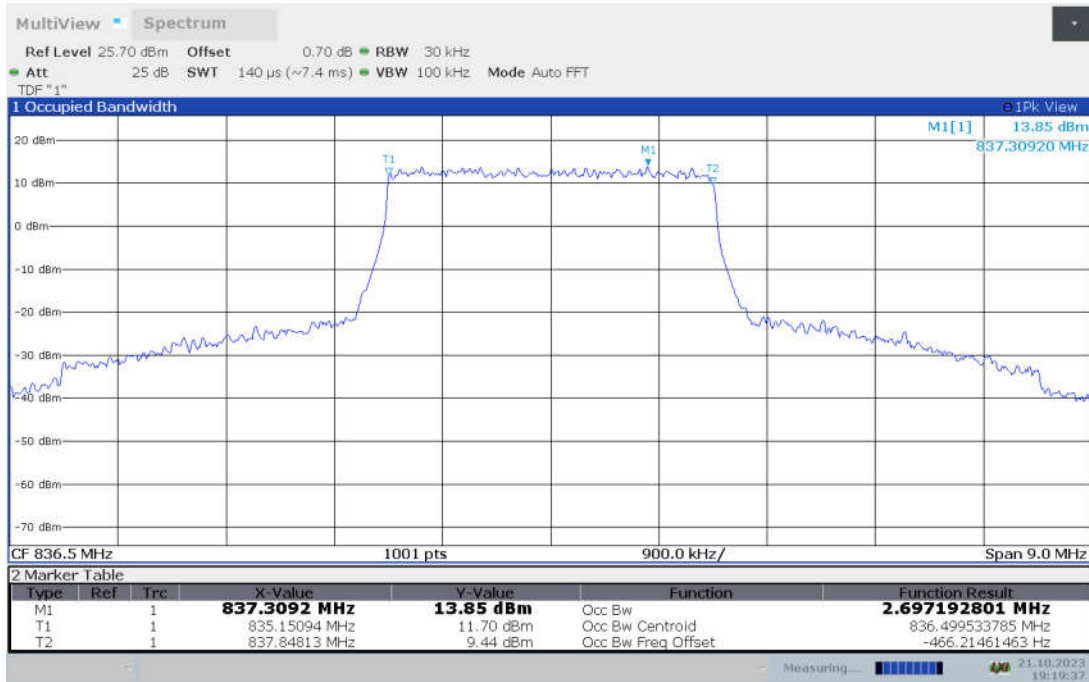
**LTE band 5 , 1.4MHz Bandwidth, MID, 16QAM (99% BW)**



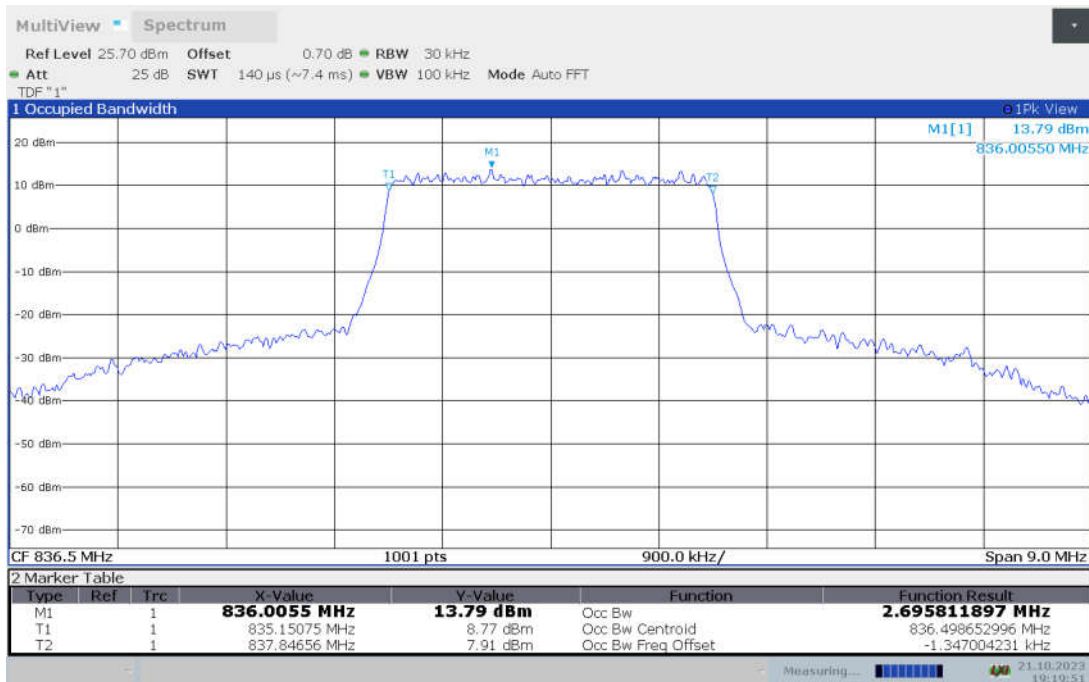
**LTE band 5,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
836.5	2.697	2.696

**LTE band 5 , 3MHz Bandwidth, MID, QPSK (99% BW)**



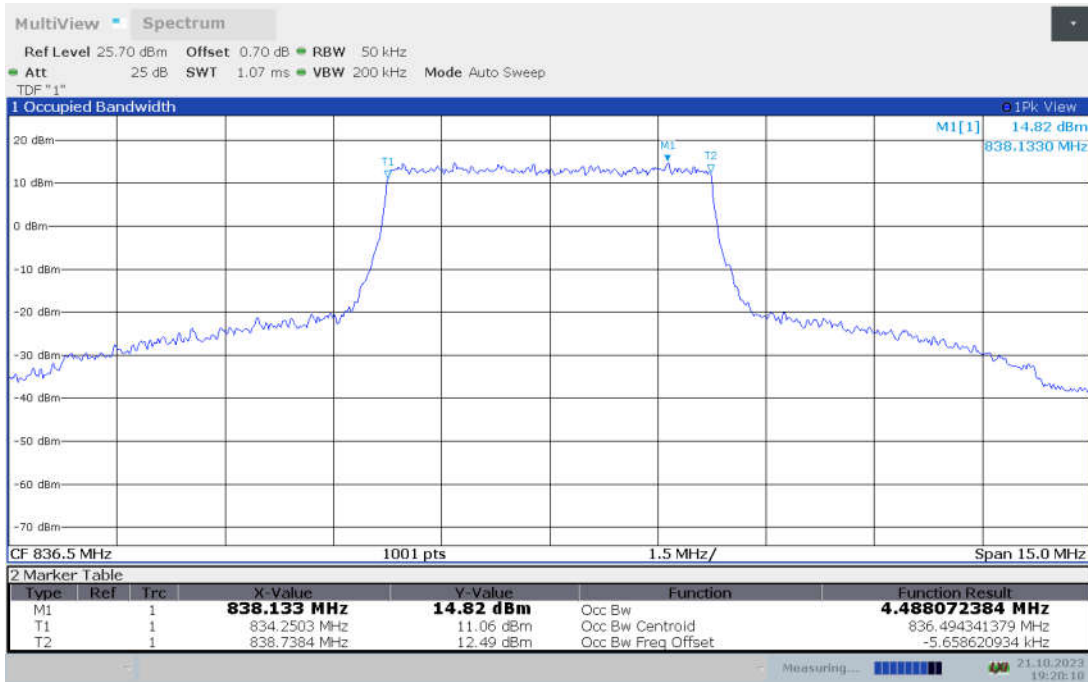
**LTE band 5 , 3MHz Bandwidth, MID, 16QAM (99% BW)**



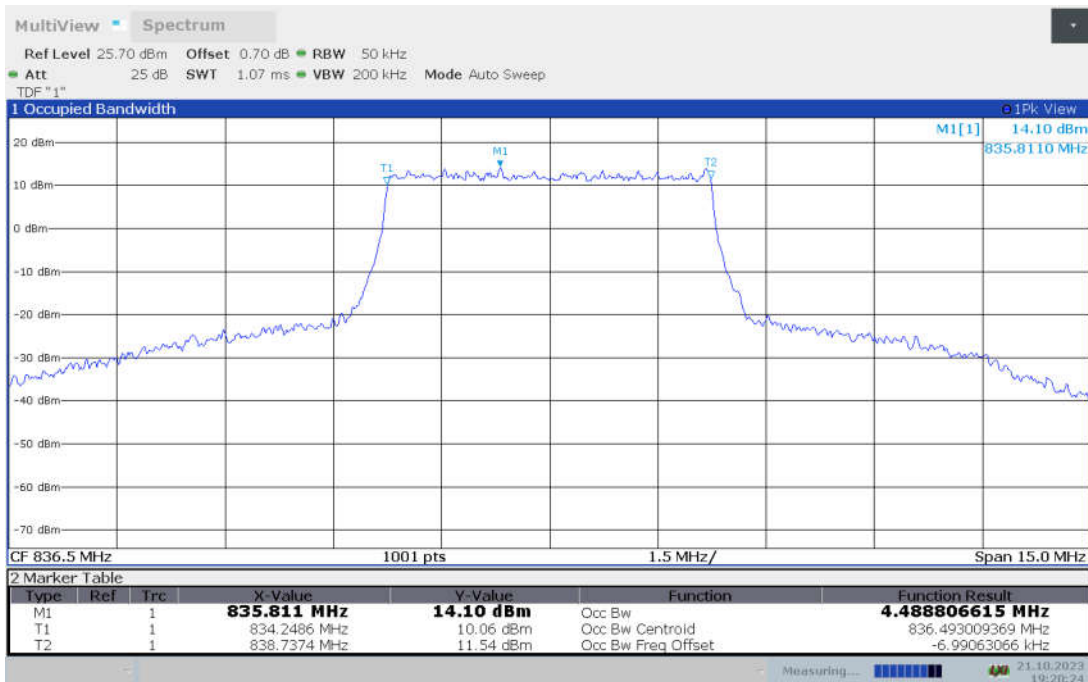
**LTE band 5,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
836.5	4.488	4.489

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



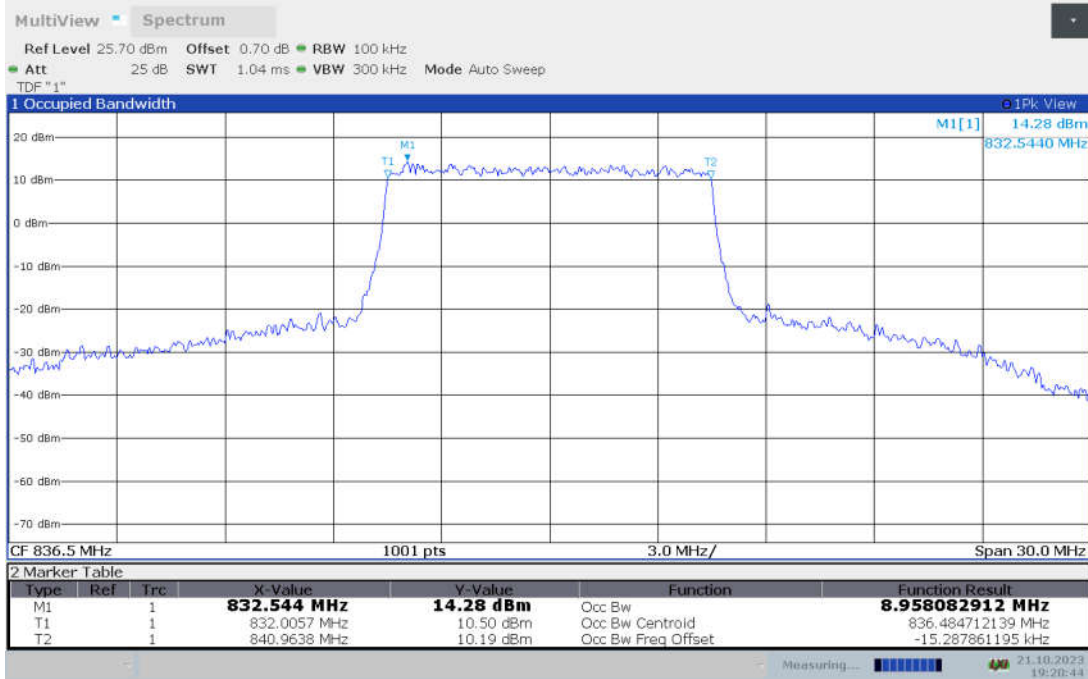
**LTE band 5 , 5MHz Bandwidth, MID, 16QAM (99% BW)**



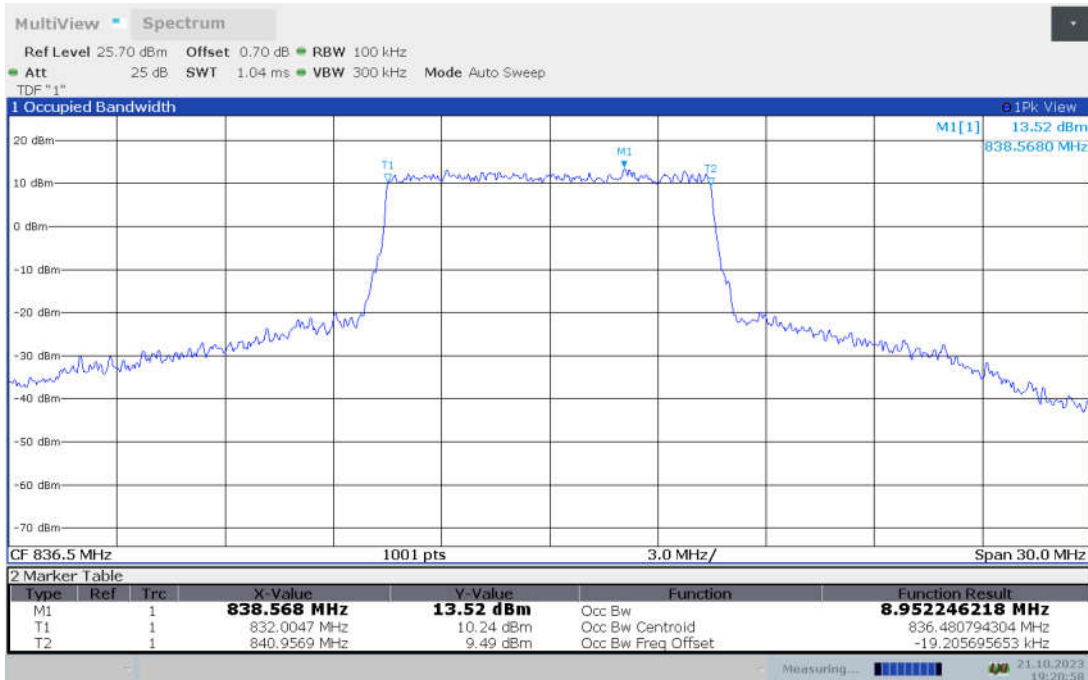
**LTE band 5,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
836.5	8.958	8.952

**LTE band 5 , 10MHz Bandwidth, MID, QPSK (99% BW)**



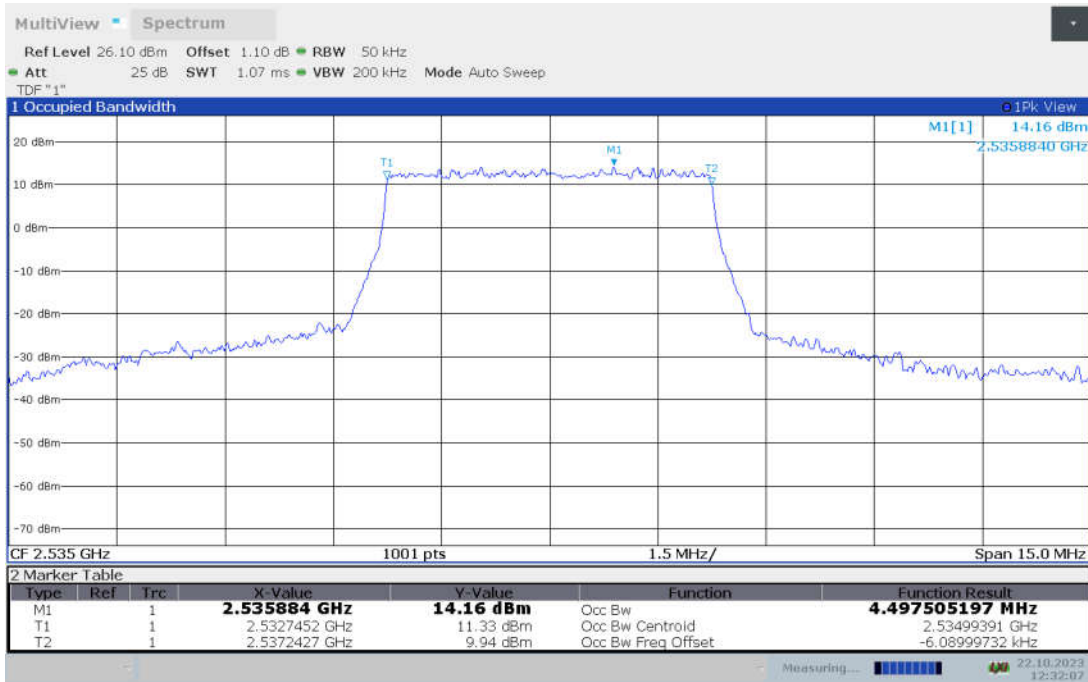
**LTE band 5 , 10MHz Bandwidth, MID, 16QAM (99% BW)**



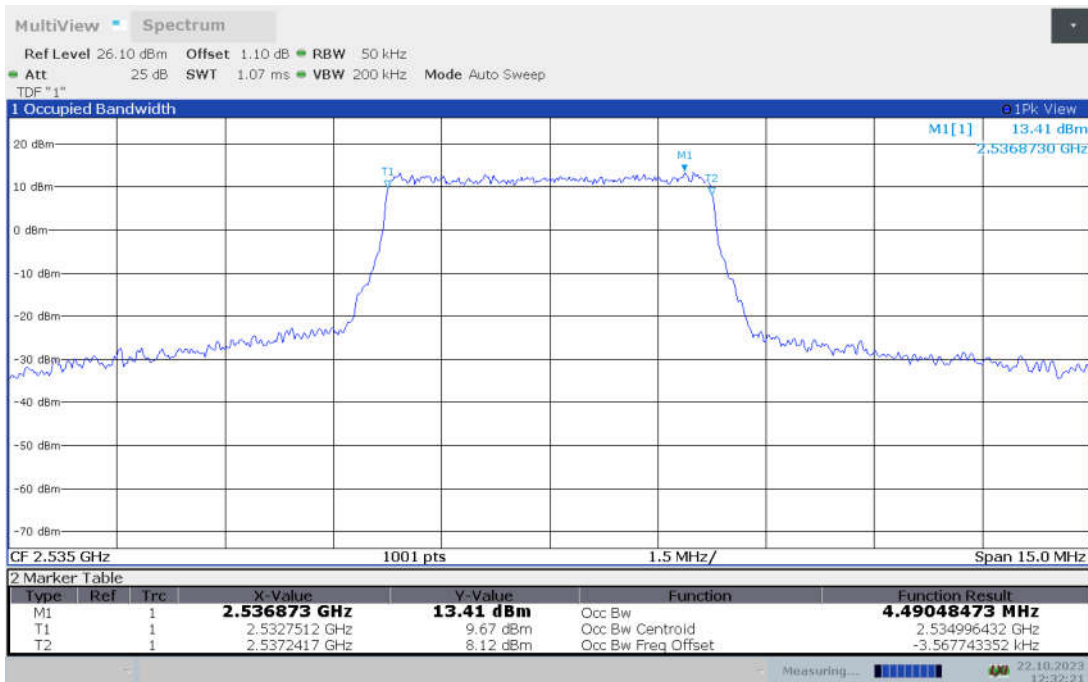
**LTE band 7,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
2535	4.498	4.490

**LTE band 7 , 5MHz Bandwidth, MID, QPSK (99% BW)**



**LTE band 7 , 5MHz Bandwidth, MID, 16QAM (99% BW)**



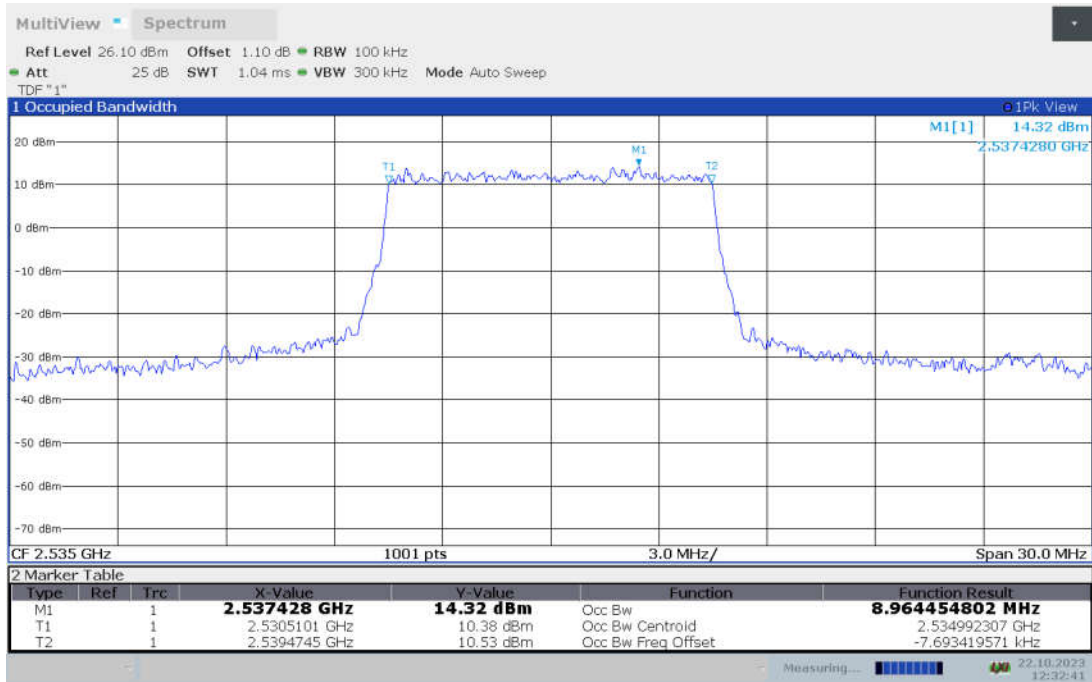




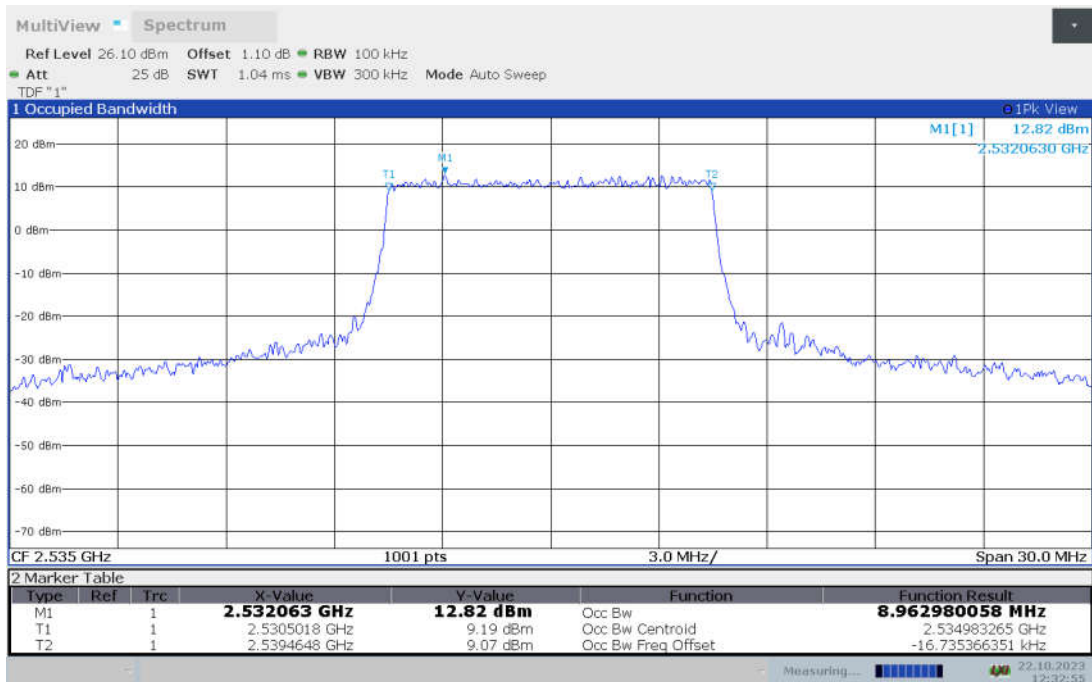
**LTE band 7,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
2535	8.964	8.963

**LTE band 7 , 10MHz Bandwidth, MID, QPSK (99% BW)**



**LTE band 7 , 10MHz Bandwidth, MID, 16QAM (99% BW)**

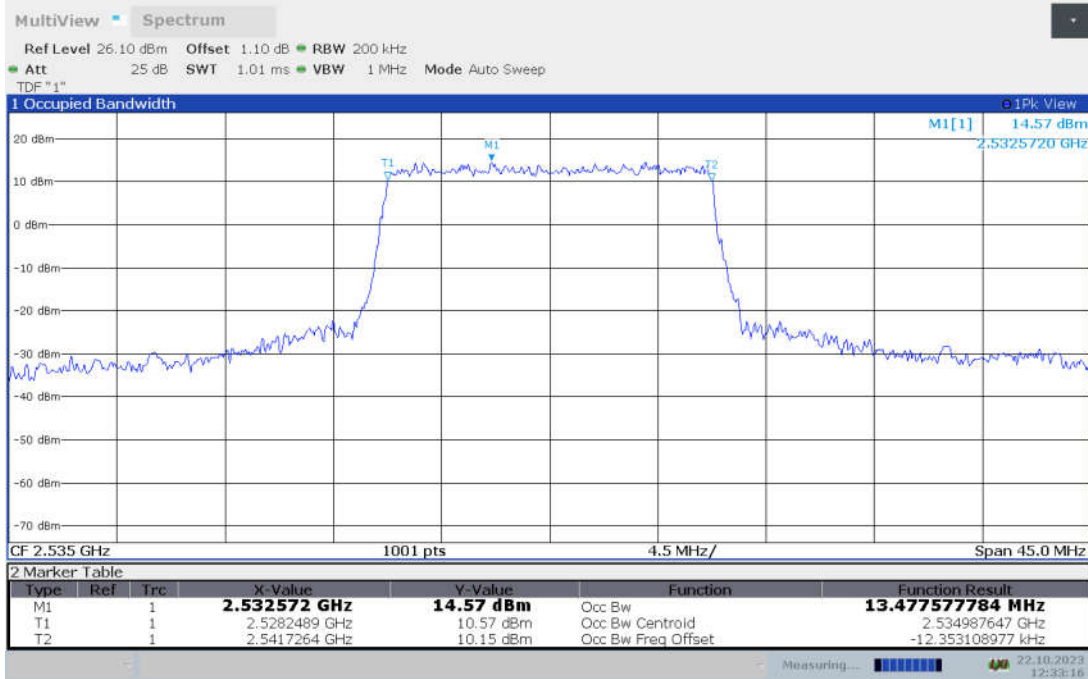




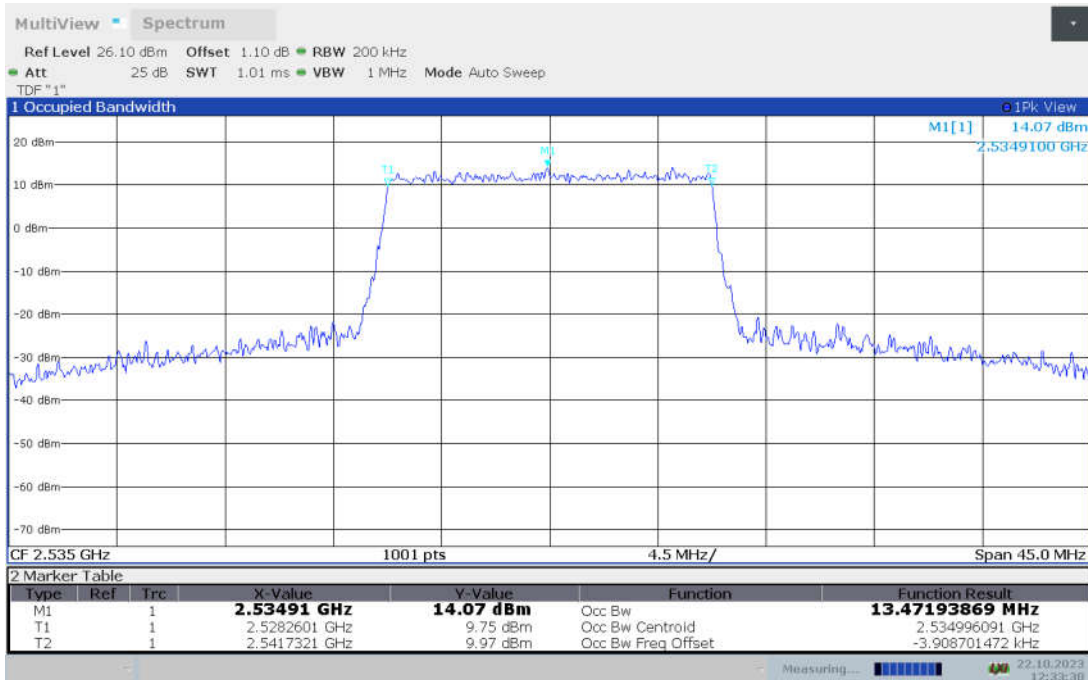
**LTE band 7,15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
2535	13.478	13.472

**LTE band 7 , 15MHz Bandwidth, MID, QPSK (99% BW)**



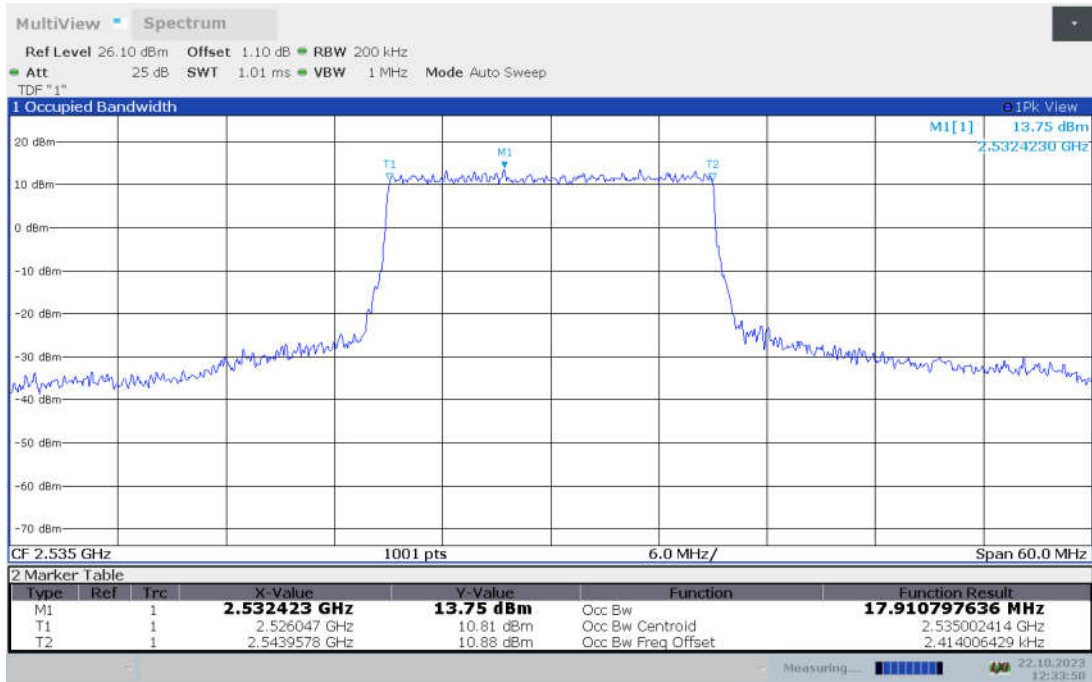
**LTE band 7 , 15MHz Bandwidth, MID, 16QAM (99% BW)**



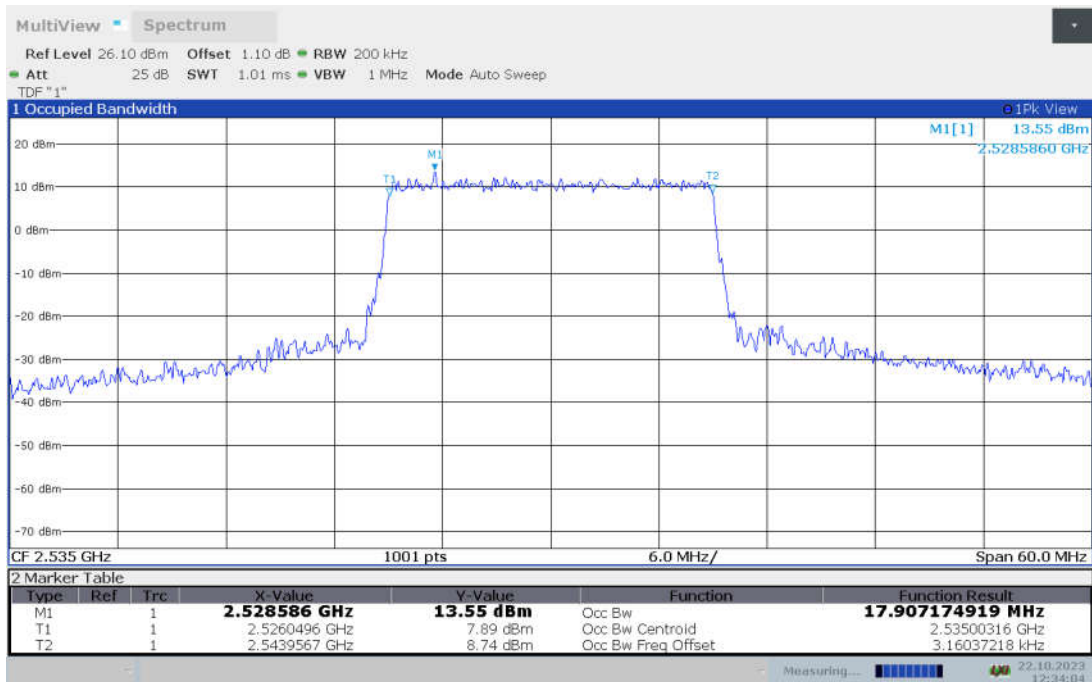
**LTE band 7,20MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
2535	17.911	17.907

**LTE band 7 , 20MHz Bandwidth, MID, QPSK (99% BW)**



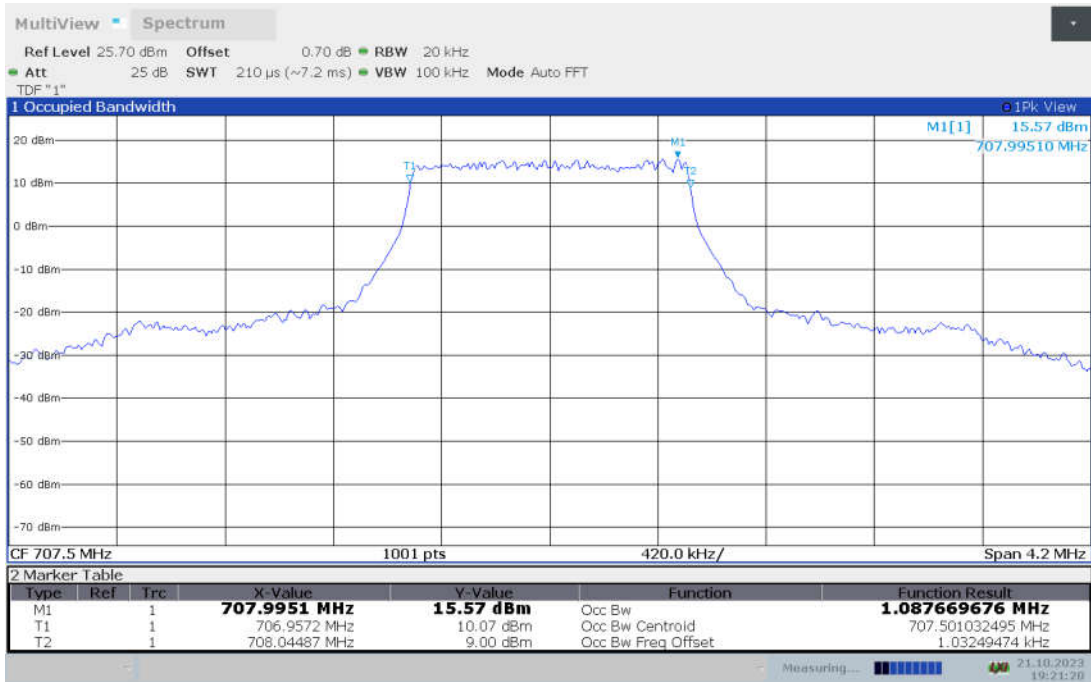
**LTE band 7 , 20MHz Bandwidth, MID, 16QAM (99% BW)**



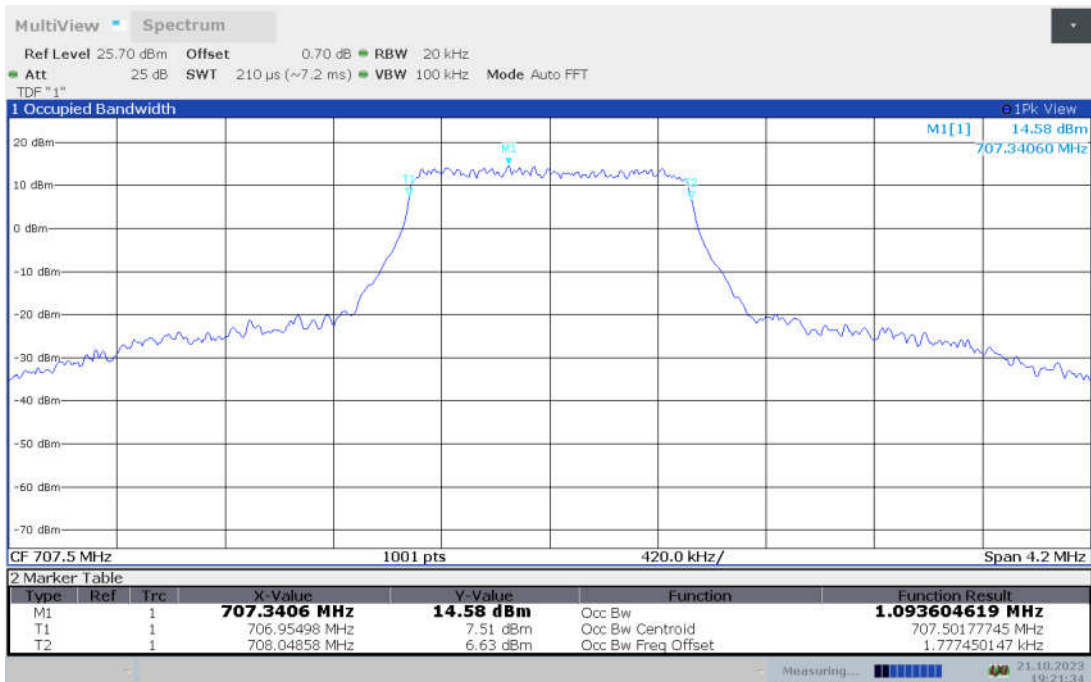
**LTE band 12,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
707.5	1.088	1.094

**LTE band 12 , 1.4MHz Bandwidth, MID, QPSK (99% BW)**



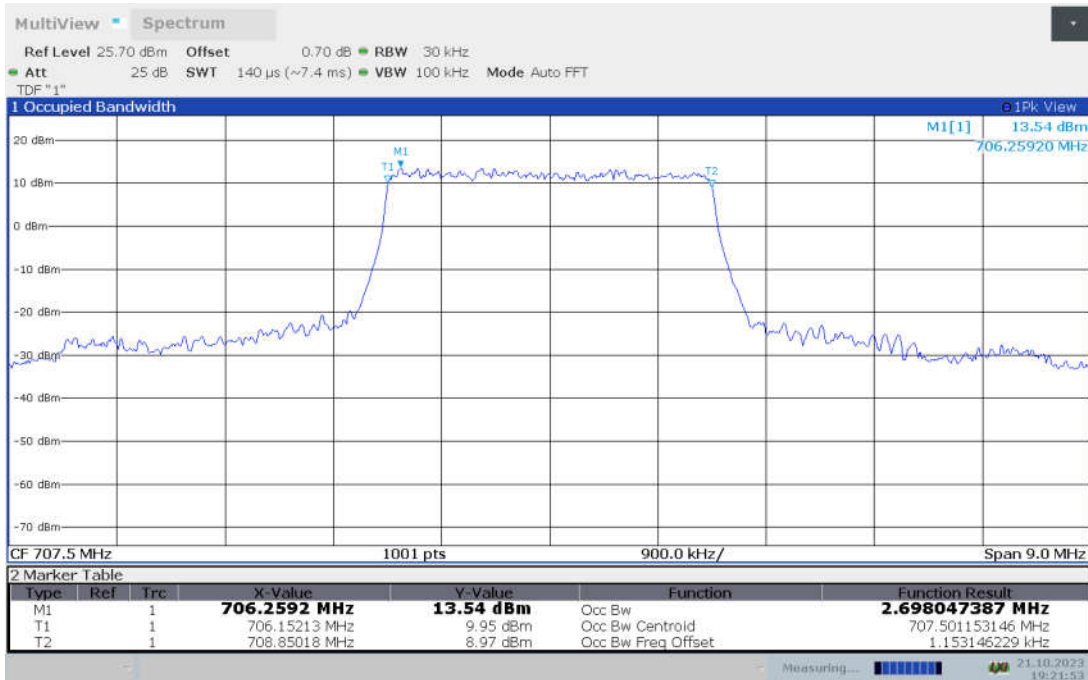
**LTE band 12 , 1.4MHz Bandwidth, MID, 16QAM (99% BW)**



**LTE band 12,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
707.5	2.698	2.692

**LTE band 12 , 3MHz Bandwidth, MID, QPSK (99% BW)**



**LTE band 12 , 3MHz Bandwidth, MID, 16QAM (99% BW)**

