# TEST REPORT

## No.I22N01222-RF-LTE

**for**

**TCL Communication Ltd.**

**GSM/UMTS/LTE/NR mobile phone**

**Model Name: T771A**

**FCC ID: 2ACCJH169**

**with**

**Hardware Version: 05**

**Software Version: HR1J-3**

**Issued Date: 2022-09-27**

**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.

**Test Laboratory:**

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# REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|---|---|---|---|
| I22N01222-RF-LTE | Rev.0 | 1st edition | 2022-09-27 |

# CONTENTS

# 1. SUMMARY OF TEST REPORT

## 1.1. Test Items

| | |
|---|---|
| Description | GSM/UMTS/LTE/NR mobile phone |
| Model Name | T771A |
| Brand Name | TCL |
| Applicant's name | TCL Communication Ltd. |
| Manufacturer's Name | TCL Communication Ltd. |

## 1.2. Test Standards

| | |
|---|---|
| FCC Part 2/22/24/27/90/96 | 10-1-20 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:2022-07-25 Testing End Date: 2022-09-25

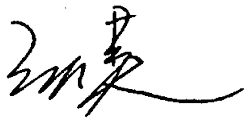
## 1.6. Signature

**Wang Ping**

**(Prepared this test report)**

**Huang Qiuqin**

**(Reviewed this test report)**



**Zhang Hao**

**(Approved this test report)**

# 2. CLIENT INFORMATION

## 2.1. Applicant Information

| | |
|---|---|
| Company Name: | TCL Communication Ltd. |
| Address /Post: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| Contact： | Annie Jiang |
| Email： | nianxiang.jiang@tcl.com |
| Telephone: | +86 755 3661 1621 |
| Fax: | +86 755 3661 2000-81722 |

## 2.2. Manufacturer Information

| | |
|---|---|
| Company Name: | TCL Communication Ltd. |
| Address /Post: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| Contact： | Annie Jiang |
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| Fax: | +86 755 3661 2000-81722 |

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

## 3.1. About EUT

| | |
|---|---|
| Description | GSM/UMTS/LTE/NR mobile phone |
| Model Name | T771A |
| FCC ID | 2ACCJH169 |
| Frequency Bands | LTE Bands 2/4/5/7/12/13/17/25/26/66/38/41/42/48 |
| Antenna | Integrated |
| Extreme vol. Limits | 3.60V to 4.40V (nominal: 3.85V) |
| 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 used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of receipt |
|---|---|---|---|---|
| UT06aa | 356613230200586 | 05 | HR1J-3 | 2022-07-25 |
| UT05aa | 356613230200628 | 05 | HR1J-3 | 2022-08-26 |

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

UT06aa are used for conduction test, UT05aa is used for radiation test.

## 3.3. Internal Identification of AE used during the test

| AE ID* | Description |
|---|---|
| AE1 | Battery |

AE1-1

| | |
|---|---|
| Model | TLp048A7 |
| Manufacturer | NINGBO VEKEN BATTERY CO., LTD |
| Capacity | Min4850mAh/typ 5000mAh |
| Nominal Voltage | 3.85 V |

AE1-2

| | |
|---|---|
| Model | TLp048A1 |
| Manufacturer | Shenzhen BYD lithium BATTERY CO., LTD |
| Capacity | Min4850mAh/typ 5000mAh |
| Nominal Voltage | 3.85 V |

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

## 3.4. General Description

The Equipment Under Test (EUT) is a model 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.

| Reference | Title | Version |
|---|---|---|
| FCC Part 22 | PUBLIC MOBILE SERVICES | 10-1-20 Edition |
| FCC Part 2 | FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS | 10-1-20 Edition |
| FCC Part 24 | PERSONAL COMMUNICATIONS SERVICES | 10-1-20 Edition |
| FCC Part 27 | MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES | 10-1-20 Edition |
| FCC Part 90 | PRIVATE LAND MOBILE RADIO SERVICES | 10-1-20 Edition |
| FCC Part 96 | CITIZENS BROADBAND RADIO SERVICE | 10-1-20 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 ℃, Max. = 35 ℃ |
| 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 ℃, Max. = 35 ℃ |
| 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 |
| Location Column | A/B/C/D | The test is performed in test location A, B, C or D which are described in section 1.4 of this report |

NOTE: As the frequency band range of LTE Band 25(1850 MHz -1915MHz) overlaps the range of LTE Band2(1850 MHz -1910MHz),LTE Band66(1710 MHz -1780 MHz) overlaps the range of LTE Band 4(1710 MHz -1755 MHz),LTE Band26(824 MHz -849 MHz) overlaps the range of LTE Band 5(824-849MHz),LTE Band 12(699 MH-716MHz) overlaps the range of LTE Band17(704 MHz-716MHz), LTE Band 41(2496 MH-2690MHz) overlaps the range of LTE Band38(2570 MHz-2620MHz),LTE Band 48(3550 MH-3600MHz) overlaps the range of LTE Band42(3550 MHz-3700MHz).

The channel bandwidth and other operating parameters for LTE Band 2 are fully supported by LTE Band 25, the channel bandwidth and other operating parameters for LTE Band 4 are fully supported by LTE Band 66, the channel bandwidth and other operating parameters for LTE Band 5 are fully supported by LTE Band 26(824 MHz -849 MHz),the channel bandwidth and other operating parameters for LTE Band 17 are fully supported by LTE Band 12, the channel bandwidth and other operating parameters for LTE Band 38 are fully supported by LTE Band 41,the channel bandwidth and other operating parameters for LTE Band 42(3550 MHz-3600MHz) are fully supported by LTE Band 48, we just need to test all the cases of LTE Band 12, LTE Band 25, LTE Band 26(824 MHz -849 MHz), LTE Band 41, LTE Band 48, LTE Band 66.

**LTE Band 7**

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

**LTE Band 12(LTE Band17)**

| 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(g) | 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 25(LTE Band2)**

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

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

| Items | Test Name | Clause in FCC rules | Section in this report | Verdict |
|---|---|---|---|---|
| 1 | Output Power | 2.1046/90.635 | A.1 | P |
| 2 | Field Strength of Spurious Radiation | 2.1053/90.691 | A.2 | P |
| 3 | Frequency Stability | 2.1055/90.213 | A.3 | P |
| 4 | Occupied Bandwidth | 2.1049/90.691 | A.4 | P |
| 5 | Emission Bandwidth | 2.1049/90.691 | 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) (LTE Band5)**

| 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 41**

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

**LTE Band 42(3450MHz-3550MHz)**

| Items | Test Name | Clause in FCC rules | Section in this report | Verdict |
|---|---|---|---|---|
| 1 | Output Power | 2.1046/27.50(k) | A.1 | P |
| 2 | Field Strength of Spurious Radiation | 2. 1053/27.53(n) | A.2 | P |
| 3 | Frequency Stability | 2.1055/27.54 | A.3 | P |
| 4 | Occupied Bandwidth | 2.1049/27.53(n) | A.4 | P |
| 5 | Emission Bandwidth | 2.1049/27.53(n) | A.5 | P |
| 6 | Band Edge Compliance | 2.1051/27.53(n) | A.6 | P |
| 7 | Conducted Spurious Emission | 2.1051/27.53(n) | A.7 | P |
| 8 | Peak-to-Average Power Ratio | 27.50(k)/ KDB971168 D01 | A.8 | P |

**LTE Band 48(LTE Band42 3550MHz-3600MHz)**

| Items | Test Name | Clause in FCC rules | Section in this report | Verdict |
|---|---|---|---|---|
| 1 | Output Power | 2.1046/96.41 | A.1 | P |
| 2 | Field Strength of Spurious Radiation | 2.1053/96.41 | A.2 | P |

**LTE Band 66(LTE Band4)**

| 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 conlusion meets the limit requirements.

# 8. TEST EQUIPMENTS UTILIZED

| NO. | Description | TYPE | Manufacture | series number | CAL DUE DATE |
|---|---|---|---|---|---|
| 1 | Test Receiver | ESR7 | R&S | 101676 | 2022-11-24 |
| 2 | BiLog Antenna | 3142E | ETS-Lindgren | 0224831 | 2024-05-27 |
| 3 | Horn Antenna | 3117 | ETS-Lindgren | 00066585 | 2025-03-15 |
| 4 | Horn Antenna | QSH-SL-18-26-S-20 | Q-par | 17013 | 2023-01-06 |
| 5 | Antenna | BBHA 9120D | Schwarzbeck | 1593 | 2022-12-05 |
| 6 | Antenna | VUBA 9117 | Schwarzbeck | 207 | 2023-07-15 |
| 7 | Antenna | QWH-SL-18-40-K-SG | Q-par | 15979 | 2023-01-06 |
| 8 | preamplifier | 83017A | Agilent | MY39501110 | / |
| 9 | Signal Generator | SMB100A | R&S | 179725 | 2022-11-24 |
| 10 | Fully Anechoic Chamber | FACT3-2.0 | ETS-Lindgren | 1285 | 2023-05-29 |
| 11 | Spectrum Analyzer | FSV40 | R&S | 101192 | 2023-01-12 |
| 12 | Universal Radio Communication Tester | CMW500 | R&S | 152499 | 2023-07-14 |
| 13 | Universal Radio Communication Tester | CMW500 | R&S | 129146 | 2023-04-24 |
| 14 | Spectrum Analyzer | FSU | R&S | 101506 | 2022-12-13 |
| 15 | Temperature Chamber | SH-241 | ESPEC | 92007516 | 2022-10-15 |
| 16 | DC Power Supply | U3606A | Agilent Technologies | MY50450012 | 2022-11-13 |
| 17 | Spectrum Analyzer | FSW26 | R&S | 102197 | 2022-11-24 |

**Test software**

| Item | Name | Vesion |
|---|---|---|
| Radiated | EMC32 | V10.50.40 |

# ANNEX A: MEASUREMENT RESULTS

## A.1 OUTPUT POWER

**Reference**

FCC: CFR Part 2.1046, 22.913, 24.232, 27.50, 90.635, 96.41.

**A.1.1 Summary**

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

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

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

**A.1.2 Conducted**

**A.1.2.1 Method of Measurements**

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

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

**A.1.2.2 Measurement result**

**LTE band 7**

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 2567.5 (21425) | 24.15 | 23.36 | 22.09 |
| | | 2535 (21100) | 23.79 | 22.99 | 21.80 |
| | | 2502.5 (20775) | 23.68 | 22.88 | 21.66 |
| | 1RB-Middle (12) | 2567.5 (21425) | 24.12 | 23.30 | 22.07 |
| | | 2535 (21100) | 23.72 | 22.97 | 21.71 |
| | | 2502.5 (20775) | 23.67 | 22.86 | 21.61 |
| | 1RB-Low (0) | 2567.5 (21425) | 24.05 | 23.24 | 21.98 |
| | | 2535 (21100) | 23.63 | 22.86 | 21.64 |
| | | 2502.5 (20775) | 23.52 | 22.75 | 21.50 |
| | 12RB-High (13) | 2567.5 (21425) | 23.09 | 22.07 | 20.99 |
| | | 2535 (21100) | 22.72 | 21.68 | 20.60 |
| | | 2502.5 (20775) | 22.63 | 21.60 | 20.49 |
| | 12RB-Middle (6) | 2567.5 (21425) | 23.08 | 22.07 | 20.96 |
| | | 2535 (21100) | 22.71 | 21.68 | 20.58 |
| | | 2502.5 (20775) | 22.60 | 21.57 | 20.45 |
| | 12RB-Low (0) | 2567.5 (21425) | 23.09 | 22.08 | 20.98 |
| | | 2535 (21100) | 22.68 | 21.64 | 20.57 |
| | | 2502.5 (20775) | 22.54 | 21.52 | 20.36 |
| | 25RB (0) | 2567.5 (21425) | 23.09 | 22.13 | 20.94 |
| | | 2535 (21100) | 22.69 | 21.72 | 20.55 |
| | | 2502.5 (20775) | 22.60 | 21.62 | 20.43 |
| 10MHz | 1RB-High (49) | 2565 (21400) | 24.12 | 23.36 | 22.11 |
| | | 2535 (21100) | 23.83 | 23.11 | 21.90 |

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 2505 (20800) | 23.72 | 22.98 | 21.73 |
| | 1RB-Middle (24) | 2565 (21400) | 24.02 | 23.23 | 22.01 |
| | | 2535 (21100) | 23.71 | 22.98 | 21.75 |
| | | 2505 (20800) | 23.61 | 22.87 | 21.65 |
| | 1RB-Low (0) | 2565 (21400) | 23.94 | 23.22 | 21.97 |
| | | 2535 (21100) | 23.54 | 22.79 | 21.58 |
| | | 2505 (20800) | 23.49 | 22.75 | 21.53 |
| | 25RB-High (25) | 2565 (21400) | 23.08 | 22.09 | 20.94 |
| | | 2535 (21100) | 22.76 | 21.80 | 20.65 |
| | | 2505 (20800) | 22.73 | 21.71 | 20.58 |
| | 25RB-Middle (12) | 2565 (21400) | 23.03 | 22.05 | 20.90 |
| | | 2535 (21100) | 22.70 | 21.68 | 20.55 |
| | | 2505 (20800) | 22.60 | 21.65 | 20.47 |
| | 25RB-Low (0) | 2565 (21400) | 23.05 | 22.05 | 20.89 |
| | | 2535 (21100) | 22.64 | 21.64 | 20.50 |
| | | 2505 (20800) | 22.57 | 21.57 | 20.41 |
| | 50RB (0) | 2565 (21400) | 23.09 | 22.08 | 20.92 |
| | | 2535 (21100) | 22.76 | 21.73 | 20.59 |
| | | 2505 (20800) | 22.64 | 21.60 | 20.48 |
| 15MHz | 1RB-High (74) | 2562.5 (21375) | 24.12 | 23.31 | 22.11 |
| | | 2535 (21100) | 23.91 | 23.13 | 21.86 |
| | | 2507.5 (20825) | 23.63 | 22.83 | 21.60 |
| | 1RB-Middle (37) | 2562.5 (21375) | 24.02 | 23.23 | 22.01 |
| | | 2535 (21100) | 23.69 | 22.96 | 21.66 |
| | | 2507.5 (20825) | 23.67 | 22.85 | 21.67 |
| | 1RB-Low (0) | 2562.5 (21375) | 23.91 | 23.10 | 21.92 |
| | | 2535 (21100) | 23.43 | 22.67 | 21.41 |
| | | 2507.5 (20825) | 23.45 | 22.64 | 21.43 |
| | 36RB-High (38) | 2562.5 (21375) | 23.04 | 22.07 | 20.96 |
| | | 2535 (21100) | 22.78 | 21.78 | 20.68 |
| | | 2507.5 (20825) | 22.69 | 21.73 | 20.58 |
| | 36RB-Middle (19) | 2562.5 (21375) | 22.99 | 22.03 | 20.90 |
| | | 2535 (21100) | 22.64 | 21.68 | 20.58 |
| | | 2507.5 (20825) | 22.65 | 21.64 | 20.52 |
| | 36RB-Low (0) | 2562.5 (21375) | 23.00 | 22.03 | 20.89 |
| | | 2535 (21100) | 22.61 | 21.57 | 20.49 |
| | | 2507.5 (20825) | 22.57 | 21.52 | 20.42 |
| | 75RB (0) | 2562.5 (21375) | 23.04 | 22.03 | 20.91 |
| | | 2535 (21100) | 22.69 | 21.66 | 20.55 |
| | | 2507.5 (20825) | 22.66 | 21.64 | 20.49 |

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 20MHz | 1RB-High (99) | 2560 (21350) | 24.04 | 23.25 | 22.13 |
| | | 2535 (21100) | 23.90 | 23.18 | 22.00 |
| | | 2510 (20850) | 23.54 | 22.84 | 21.51 |
| | 1RB-Middle (50) | 2560 (21350) | 23.94 | 23.15 | 22.04 |
| | | 2535 (21100) | 23.63 | 22.90 | 21.72 |
| | | 2510 (20850) | 23.65 | 22.92 | 21.62 |
| | 1RB-Low (0) | 2560 (21350) | 23.79 | 23.04 | 21.94 |
| | | 2535 (21100) | 23.28 | 22.60 | 21.36 |
| | | 2510 (20850) | 23.36 | 22.64 | 21.38 |
| | 50RB-High (50) | 2560 (21350) | 22.98 | 22.03 | 20.89 |
| | | 2535 (21100) | 22.84 | 21.86 | 20.74 |
| | | 2510 (20850) | 22.57 | 21.54 | 20.47 |
| | 50RB-Middle (25) | 2560 (21350) | 22.96 | 22.00 | 20.87 |
| | | 2535 (21100) | 22.70 | 21.69 | 20.57 |
| | | 2510 (20850) | 22.60 | 21.59 | 20.50 |
| | 50RB-Low (0) | 2560 (21350) | 22.95 | 21.96 | 20.83 |
| | | 2535 (21100) | 22.53 | 21.54 | 20.43 |
| | | 2510 (20850) | 22.54 | 21.54 | 20.41 |
| | 100RB (0) | 2560 (21350) | 23.01 | 22.00 | 20.90 |
| | | 2535 (21100) | 22.67 | 21.71 | 20.59 |
| | | 2510 (20850) | 22.56 | 21.50 | 20.40 |

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

**LTE band 12**

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 715.3 | 22.77 | 21.94 | 21.24 |
| | | 707.5 | 22.50 | 21.84 | 21.06 |
| | | 699.7 | 22.53 | 21.91 | 20.80 |
| | 1RB-Middle (3) | 715.3 | 22.55 | 21.93 | 21.21 |
| | | 707.5 | 22.61 | 21.93 | 20.93 |
| | | 699.7 | 22.59 | 21.90 | 20.80 |
| | 1RB-Low (0) | 715.3 | 22.52 | 21.89 | 21.20 |
| | | 707.5 | 22.56 | 21.92 | 20.94 |
| | | 699.7 | 22.49 | 21.87 | 20.85 |
| | 3RB-High (3) | 715.3 | 23.06 | 22.06 | 21.30 |
| | | 707.5 | 23.04 | 22.07 | 21.28 |
| | | 699.7 | 23.04 | 22.23 | 21.24 |
| | 3RB-Middle (1) | 715.3 | 23.05 | 22.09 | 21.25 |
| | | 707.5 | 23.05 | 22.08 | 21.33 |
| | | 699.7 | 23.06 | 22.21 | 21.25 |
| | 3RB-Low (0) | 715.3 | 23.07 | 22.07 | 21.29 |
| | | 707.5 | 23.06 | 22.08 | 21.31 |
| | | 699.7 | 23.00 | 22.18 | 21.20 |
| | 6RB (0) | 715.3 | 22.06 | 21.28 | 20.12 |
| | | 707.5 | 22.04 | 21.28 | 20.10 |
| | | 699.7 | 22.22 | 21.29 | 20.13 |
| 3MHz | 1RB-High (14) | 714.5 | 22.84 | 21.95 | 21.33 |
| | | 707.5 | 22.49 | 21.90 | 21.28 |
| | | 700.5 | 22.53 | 21.95 | 20.90 |
| | 1RB-Middle (7) | 714.5 | 22.57 | 21.90 | 21.28 |
| | | 707.5 | 22.61 | 21.97 | 21.28 |
| | | 700.5 | 22.56 | 21.98 | 20.90 |
| | 1RB-Low (0) | 714.5 | 22.45 | 21.86 | 21.23 |
| | | 707.5 | 22.50 | 21.92 | 21.04 |
| | | 700.5 | 22.47 | 21.95 | 20.86 |
| | 8RB-High (7) | 714.5 | 22.00 | 21.28 | 20.19 |
| | | 707.5 | 21.99 | 21.23 | 20.16 |
| | | 700.5 | 22.19 | 21.23 | 20.16 |
| | 8RB-Middle (4) | 714.5 | 21.97 | 21.23 | 20.12 |
| | | 707.5 | 22.00 | 21.24 | 20.18 |
| | | 700.5 | 22.18 | 21.26 | 20.19 |
| | 8RB-Low (0) | 714.5 | 21.95 | 21.19 | 20.11 |
| | | 707.5 | 21.99 | 21.24 | 20.15 |
| | | 700.5 | 22.17 | 21.24 | 20.18 |

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | 15RB (0) | 714.5 | 21.96 | 21.19 | 20.08 |
| | | 707.5 | 21.98 | 21.19 | 20.16 |
| | | 700.5 | 22.19 | 21.21 | 20.16 |
| 5MHz | 1RB-High (24) | 713.5 | 23.14 | 21.96 | 21.34 |
| | | 707.5 | 22.59 | 21.99 | 21.33 |
| | | 701.5 | 22.61 | 21.96 | 21.31 |
| | 1RB-Middle (12) | 713.5 | 22.52 | 21.87 | 21.22 |
| | | 707.5 | 22.62 | 22.03 | 21.36 |
| | | 701.5 | 22.58 | 21.93 | 21.22 |
| | 1RB-Low (0) | 713.5 | 22.44 | 21.84 | 21.20 |
| | | 707.5 | 22.50 | 21.91 | 21.27 |
| | | 701.5 | 22.55 | 21.91 | 21.22 |
| | 12RB-High (13) | 713.5 | 21.99 | 21.16 | 20.15 |
| | | 707.5 | 22.04 | 21.17 | 20.17 |
| | | 701.5 | 22.04 | 21.17 | 20.17 |
| | 12RB-Middle (6) | 713.5 | 21.94 | 21.10 | 20.11 |
| | | 707.5 | 22.03 | 21.18 | 20.17 |
| | | 701.5 | 22.22 | 21.18 | 20.18 |
| | 12RB-Low (0) | 713.5 | 21.97 | 21.08 | 20.07 |
| | | 707.5 | 22.05 | 21.18 | 20.21 |
| | | 701.5 | 22.20 | 21.15 | 20.16 |
| | 25RB (0) | 713.5 | 21.98 | 21.15 | 20.08 |
| | | 707.5 | 22.04 | 21.22 | 20.19 |
| | | 701.5 | 22.20 | 21.20 | 20.18 |
| 10MHz | 1RB-High (49) | 711 | 23.10 | 21.99 | 21.31 |
| | | 707.5 | 22.46 | 21.85 | 21.21 |
| | | 704 | 22.55 | 21.95 | 21.38 |
| | 1RB-Middle (24) | 711 | 22.99 | 21.89 | 21.24 |
| | | 707.5 | 22.68 | 22.00 | 21.36 |
| | | 704 | 22.57 | 21.96 | 21.35 |
| | 1RB-Low (0) | 711 | 23.00 | 21.85 | 21.26 |
| | | 707.5 | 22.48 | 21.85 | 21.22 |
| | | 704 | 22.49 | 21.87 | 21.24 |
| | 25RB-High (25) | 711 | 21.88 | 21.09 | 20.03 |
| | | 707.5 | 22.02 | 21.18 | 20.18 |
| | | 704 | 22.06 | 21.28 | 20.22 |
| | 25RB-Middle (12) | 711 | 21.97 | 21.16 | 20.10 |
| | | 707.5 | 22.04 | 21.25 | 20.14 |
| | | 704 | 22.05 | 21.22 | 20.18 |
| | 25RB-Low (0) | 711 | 21.97 | 21.17 | 20.09 |

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 707.5 | 21.99 | 21.21 | 20.14 |
| | | 704 | 22.17 | 21.16 | 20.13 |
| | 50RB (0) | 711 | 21.96 | 21.12 | 20.11 |
| | | 707.5 | 22.05 | 21.21 | 20.15 |
| | | 704 | 22.04 | 21.24 | 20.22 |

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

**LTE band 13**

| Bandwidth | Number of RBs | Frequency(MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 784.5 (23255) | 22.46 | 21.78 | 21.16 |
| | | 782 (23230) | 22.43 | 21.78 | 21.11 |
| | | 779.5 (23205) | 22.51 | 21.80 | 20.73 |
| | 1RB-Middle (12) | 784.5 (23255) | 22.42 | 21.73 | 21.16 |
| | | 782 (23230) | 22.51 | 21.84 | 21.15 |
| | | 779.5 (23205) | 22.50 | 21.74 | 20.67 |
| | 1RB-Low (0) | 784.5 (23255) | 22.42 | 21.81 | 21.19 |
| | | 782 (23230) | 22.51 | 21.87 | 20.94 |
| | | 779.5 (23205) | 22.38 | 21.77 | 20.64 |
| | 12RB-High (13) | 784.5 (23255) | 21.81 | 21.00 | 19.95 |
| | | 782 (23230) | 21.84 | 21.06 | 20.01 |
| | | 779.5 (23205) | 22.02 | 21.19 | 20.17 |
| | 12RB-Middle (6) | 784.5 (23255) | 21.87 | 21.02 | 20.00 |
| | | 782 (23230) | 21.90 | 21.08 | 20.08 |
| | | 779.5 (23205) | 21.90 | 21.08 | 20.06 |
| | 12RB-Low (0) | 784.5 (23255) | 21.92 | 21.10 | 20.10 |
| | | 782 (23230) | 21.87 | 21.04 | 20.05 |
| | | 779.5 (23205) | 21.79 | 20.98 | 19.97 |
| | 25RB (0) | 784.5 (23255) | 21.87 | 21.09 | 19.99 |
| | | 782 (23230) | 21.88 | 21.08 | 19.99 |
| | | 779.5 (23205) | 21.90 | 21.13 | 20.06 |
| 10MHz | 1RB-High (49) | 782 (23230) | 22.38 | 21.82 | 20.73 |
| | 1RB-Middle (24) | 782 (23230) | 22.51 | 21.83 | 20.74 |
| | 1RB-Low (0) | 782 (23230) | 22.36 | 21.77 | 20.65 |
| | 25RB-High (25) | 782 (23230) | 21.84 | 21.01 | 19.99 |
| | 25RB-Middle (12) | 782 (23230) | 21.90 | 21.13 | 20.03 |
| | 25RB-Low (0) | 782 (23230) | 21.73 | 20.92 | 19.87 |
| | 50RB (0) | 782 (23230) | 21.78 | 20.96 | 19.93 |

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

**LTE band 25**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1914.3 (26683) | 22.46 | 22.03 | 21.08 |
| | | 1882.5 (26365) | 23.03 | 22.29 | 20.97 |
| | | 1850.7 (26047) | 23.07 | 22.25 | 20.93 |
| | 1RB-Middle (3) | 1914.3 (26683) | 22.43 | 22.04 | 21.02 |
| | | 1882.5 (26365) | 23.03 | 22.27 | 20.94 |
| | | 1850.7 (26047) | 23.10 | 22.25 | 20.97 |
| | 1RB-Low (0) | 1914.3 (26683) | 22.43 | 22.09 | 21.12 |
| | | 1882.5 (26365) | 23.05 | 22.31 | 20.96 |
| | | 1850.7 (26047) | 23.09 | 22.28 | 20.97 |
| | 3RB-High (3) | 1914.3 (26683) | 22.37 | 22.04 | 21.03 |
| | | 1882.5 (26365) | 23.03 | 22.04 | 20.97 |
| | | 1850.7 (26047) | 23.06 | 22.09 | 20.92 |
| | 3RB-Middle (1) | 1914.3 (26683) | 22.35 | 22.05 | 21.10 |
| | | 1882.5 (26365) | 23.04 | 22.08 | 20.97 |
| | | 1850.7 (26047) | 23.10 | 22.13 | 20.95 |
| | 3RB-Low (0) | 1914.3 (26683) | 22.33 | 22.03 | 21.07 |
| | | 1882.5 (26365) | 23.05 | 22.04 | 20.98 |
| | | 1850.7 (26047) | 23.11 | 22.10 | 20.93 |
| | 6RB (0) | 1914.3 (26683) | 22.09 | 21.15 | 20.14 |
| | | 1882.5 (26365) | 22.05 | 21.08 | 19.81 |
| | | 1850.7 (26047) | 22.07 | 21.08 | 19.91 |
| 3MHz | 1RB-High (14) | 1913.5 (26675) | 22.49 | 22.02 | 21.09 |
| | | 1882.5 (26365) | 23.04 | 22.21 | 20.94 |
| | | 1851.5 (26055) | 23.05 | 22.19 | 20.95 |
| | 1RB-Middle (7) | 1913.5 (26675) | 22.54 | 22.08 | 21.16 |
| | | 1882.5 (26365) | 23.04 | 22.21 | 20.99 |
| | | 1851.5 (26055) | 23.06 | 22.19 | 20.94 |
| | 1RB-Low (0) | 1913.5 (26675) | 22.80 | 22.22 | 21.20 |
| | | 1882.5 (26365) | 22.99 | 22.19 | 20.90 |
| | | 1851.5 (26055) | 23.08 | 22.22 | 21.00 |
| | 8RB-High (7) | 1913.5 (26675) | 22.07 | 21.18 | 20.23 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 1882.5 (26365) | 22.00 | 21.04 | 19.84 |
| | | 1851.5 (26055) | 22.00 | 21.04 | 19.98 |
| | 8RB-Middle (4) | 1913.5 (26675) | 22.13 | 21.21 | 20.26 |
| | | 1882.5 (26365) | 21.99 | 21.05 | 19.84 |
| | | 1851.5 (26055) | 22.00 | 21.05 | 19.99 |
| | 8RB-Low (0) | 1913.5 (26675) | 22.19 | 21.27 | 20.26 |
| | | 1882.5 (26365) | 21.96 | 21.03 | 19.86 |
| | | 1851.5 (26055) | 22.03 | 21.07 | 19.99 |
| | 15RB (0) | 1913.5 (26675) | 22.12 | 21.24 | 20.22 |
| | | 1882.5 (26365) | 22.00 | 21.01 | 19.82 |
| | | 1851.5 (26055) | 22.02 | 20.99 | 19.91 |
| 5MHz | 1RB-High (24) | 1912.5 (26665) | 22.47 | 22.00 | 21.11 |
| | | 1882.5 (26365) | 23.05 | 22.21 | 21.00 |
| | | 1852.5 (26065) | 23.05 | 22.17 | 20.98 |
| | 1RB-Middle (12) | 1912.5 (26665) | 22.78 | 22.17 | 21.26 |
| | | 1882.5 (26365) | 23.06 | 22.30 | 21.03 |
| | | 1852.5 (26065) | 23.09 | 22.21 | 20.98 |
| | 1RB-Low (0) | 1912.5 (26665) | 23.26 | 22.31 | 21.23 |
| | | 1882.5 (26365) | 23.00 | 22.24 | 21.00 |
| | | 1852.5 (26065) | 23.13 | 22.28 | 20.98 |
| | 12RB-High (13) | 1912.5 (26665) | 22.05 | 21.05 | 20.16 |
| | | 1882.5 (26365) | 22.03 | 20.98 | 19.88 |
| | | 1852.5 (26065) | 22.00 | 20.95 | 19.98 |
| | 12RB-Middle (6) | 1912.5 (26665) | 22.22 | 21.22 | 20.28 |
| | | 1882.5 (26365) | 21.96 | 20.94 | 19.82 |
| | | 1852.5 (26065) | 21.99 | 20.94 | 19.94 |
| | 12RB-Low (0) | 1912.5 (26665) | 22.33 | 21.30 | 20.28 |
| | | 1882.5 (26365) | 21.99 | 20.96 | 19.86 |
| | | 1852.5 (26065) | 22.04 | 20.99 | 19.99 |
| | 25RB (0) | 1912.5 (26665) | 22.15 | 21.29 | 20.18 |
| | | 1882.5 (26365) | 22.02 | 21.00 | 19.82 |
| | | 1852.5 (26065) | 22.02 | 21.01 | 19.95 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 10MHz | 1RB-High (49) | 1910 (26640) | 22.59 | 21.98 | 21.10 |
| | | 1882.5 (26365) | 23.04 | 22.18 | 20.96 |
| | | 1855 (26090) | 22.92 | 22.09 | 20.86 |
| | 1RB-Middle (24) | 1910 (26640) | 23.25 | 22.31 | 21.14 |
| | | 1882.5 (26365) | 23.06 | 22.24 | 20.99 |
| | | 1855 (26090) | 23.02 | 22.22 | 20.90 |
| | 1RB-Low (0) | 1910 (26640) | 23.27 | 22.49 | 21.11 |
| | | 1882.5 (26365) | 22.97 | 22.18 | 20.92 |
| | | 1855 (26090) | 23.09 | 22.32 | 20.95 |
| | 25RB-High (25) | 1910 (26640) | 22.02 | 21.10 | 20.14 |
| | | 1882.5 (26365) | 22.08 | 21.12 | 19.92 |
| | | 1855 (26090) | 22.03 | 21.05 | 20.02 |
| | 25RB-Middle (12) | 1910 (26640) | 22.21 | 21.27 | 20.20 |
| | | 1882.5 (26365) | 21.95 | 20.96 | 19.80 |
| | | 1855 (26090) | 21.95 | 20.96 | 19.91 |
| | 25RB-Low (0) | 1910 (26640) | 22.17 | 21.18 | 20.14 |
| | | 1882.5 (26365) | 21.96 | 20.94 | 19.82 |
| | | 1855 (26090) | 21.97 | 20.95 | 19.97 |
| | 50RB (0) | 1910 (26640) | 22.09 | 21.12 | 20.17 |
| | | 1882.5 (26365) | 22.03 | 21.03 | 19.86 |
| | | 1855 (26090) | 22.03 | 20.99 | 20.01 |
| 15MHz | 1RB-High (74) | 1907.5 (26615) | 22.62 | 21.99 | 21.02 |
| | | 1882.5 (26365) | 22.89 | 22.09 | 20.93 |
| | | 1857.5 (26115) | 22.76 | 21.94 | 20.78 |
| | 1RB-Middle (37) | 1907.5 (26615) | 23.21 | 22.42 | 21.14 |
| | | 1882.5 (26365) | 22.95 | 22.20 | 21.02 |
| | | 1857.5 (26115) | 22.89 | 22.08 | 20.93 |
| | 1RB-Low (0) | 1907.5 (26615) | 23.08 | 22.24 | 20.97 |
| | | 1882.5 (26365) | 22.83 | 22.13 | 20.93 |
| | | 1857.5 (26115) | 22.99 | 22.23 | 20.97 |
| | 36RB-High (38) | 1907.5 (26615) | 22.09 | 21.14 | 20.14 |
| | | 1882.5 (26365) | 22.00 | 21.05 | 19.89 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 1857.5 (26115) | 21.90 | 20.92 | 19.90 |
| | 36RB-Middle (19) | 1907.5 (26615) | 22.17 | 21.15 | 20.13 |
| | | 1882.5 (26365) | 21.94 | 20.94 | 19.83 |
| | | 1857.5 (26115) | 21.86 | 20.89 | 19.91 |
| | 36RB-Low (0) | 1907.5 (26615) | 22.21 | 21.23 | 20.15 |
| | | 1882.5 (26365) | 21.92 | 20.93 | 19.80 |
| | | 1857.5 (26115) | 21.90 | 20.90 | 19.94 |
| | 75RB (0) | 1907.5 (26615) | 22.17 | 21.19 | 20.14 |
| | | 1882.5 (26365) | 21.98 | 20.94 | 19.81 |
| | | 1857.5 (26115) | 21.89 | 20.85 | 19.90 |
| 20MHz | 1RB-High (99) | 1905 (26590) | 22.51 | 22.02 | 20.89 |
| | | 1882.5 (26365) | 22.92 | 22.03 | 20.70 |
| | | 1860 (26140) | 22.67 | 21.90 | 20.62 |
| | 1RB-Middle (50) | 1905 (26590) | 23.22 | 22.40 | 20.96 |
| | | 1882.5 (26365) | 22.94 | 22.15 | 20.81 |
| | | 1860 (26140) | 22.83 | 21.98 | 20.82 |
| | 1RB-Low (0) | 1905 (26590) | 23.01 | 22.13 | 20.78 |
| | | 1882.5 (26365) | 22.75 | 21.97 | 20.60 |
| | | 1860 (26140) | 22.97 | 22.15 | 20.86 |
| | 50RB-High (50) | 1905 (26590) | 22.16 | 21.19 | 20.14 |
| | | 1882.5 (26365) | 22.10 | 21.08 | 19.91 |
| | | 1860 (26140) | 21.76 | 20.73 | 19.76 |
| | 50RB-Middle (25) | 1905 (26590) | 22.21 | 21.19 | 20.07 |
| | | 1882.5 (26365) | 21.95 | 20.89 | 19.81 |
| | | 1860 (26140) | 21.87 | 20.81 | 19.82 |
| | 50RB-Low (0) | 1905 (26590) | 22.33 | 21.36 | 20.10 |
| | | 1882.5 (26365) | 21.99 | 20.97 | 19.84 |
| | | 1860 (26140) | 21.79 | 20.75 | 19.75 |
| | 100RB (0) | 1905 (26590) | 22.23 | 21.25 | 20.19 |
| | | 1882.5 (26365) | 22.07 | 21.01 | 19.88 |
| | | 1860 (26140) | 21.74 | 20.72 | 19.76 |

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

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

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 814.7 (26697) | 23.21 | 22.47 | 21.38 |
| | | 819(26740) | 23.09 | 22.43 | 21.37 |
| | | 823.3(26783) | 23.45 | 22.59 | 21.68 |
| | 1RB-Middle (3) | 814.7 (26697) | 23.12 | 22.43 | 21.24 |
| | | 819(26740) | 22.98 | 22.50 | 21.14 |
| | | 823.3(26783) | 23.62 | 22.78 | 21.77 |
| | 1RB-Low (0) | 814.7 (26697) | 23.07 | 22.28 | 21.35 |
| | | 819(26740) | 23.02 | 22.44 | 21.27 |
| | | 823.3(26783) | 23.42 | 22.71 | 21.82 |
| | 3RB-High (3) | 814.7 (26697) | 23.24 | 22.23 | 21.39 |
| | | 819(26740) | 23.14 | 22.03 | 21.31 |
| | | 823.3(26783) | 23.44 | 22.44 | 21.67 |
| | 3RB-Middle (1) | 814.7 (26697) | 23.21 | 22.28 | 21.37 |
| | | 819(26740) | 23.15 | 22.20 | 21.18 |
| | | 823.3(26783) | 23.52 | 22.50 | 21.78 |
| | 3RB-Low (0) | 814.7 (26697) | 23.31 | 22.26 | 21.32 |
| | | 819(26740) | 23.16 | 22.20 | 21.16 |
| | | 823.3(26783) | 23.62 | 22.65 | 21.68 |
| | 6RB (0) | 814.7 (26697) | 22.32 | 21.55 | 20.12 |
| | | 819(26740) | 22.20 | 21.38 | 20.22 |
| | | 823.3(26783) | 22.45 | 21.80 | 20.42 |
| 3MHz | 1RB-High (14) | 815.5 (26705) | 23.19 | 22.29 | 21.22 |
| | | 819(26740) | 22.95 | 22.09 | 21.21 |
| | | 822.5(26775) | 23.40 | 22.49 | 21.72 |
| | 1RB-Middle (7) | 815.5 (26705) | 23.07 | 22.31 | 21.26 |
| | | 819(26740) | 23.04 | 22.26 | 21.26 |
| | | 822.5(26775) | 23.40 | 22.57 | 21.63 |
| | 1RB-Low (0) | 815.5 (26705) | 23.11 | 22.07 | 21.19 |
| | | 819(26740) | 23.16 | 22.36 | 21.26 |
| | | 822.5(26775) | 23.60 | 22.51 | 21.77 |
| | 8RB-High (7) | 815.5 (26705) | 22.07 | 21.35 | 20.14 |
| | | 819(26740) | 21.92 | 21.16 | 20.00 |
| | | 822.5(26775) | 22.54 | 21.60 | 20.63 |
| | 8RB-Middle (4) | 815.5 (26705) | 22.15 | 21.31 | 20.21 |
| | | 819(26740) | 22.08 | 21.31 | 20.05 |
| | | 822.5(26775) | 22.44 | 21.56 | 20.58 |
| | 8RB-Low (0) | 815.5 (26705) | 22.15 | 21.29 | 20.29 |
| | | 819(26740) | 22.15 | 21.23 | 20.13 |
| | | 822.5(26775) | 22.53 | 21.71 | 20.44 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | 15RB (0) | 815.5 (26705) | 22.03 | 21.31 | 20.11 |
| | | 819(26740) | 22.10 | 21.32 | 20.00 |
| | | 822.5(26775) | 22.41 | 21.75 | 20.58 |
| 5MHz | 1RB-High (24) | 816.5 (26715) | 23.40 | 22.33 | 21.51 |
| | | 819(26740) | 23.12 | 22.16 | 21.31 |
| | | 821.5(26765) | 23.37 | 22.69 | 21.59 |
| | 1RB-Middle (12) | 816.5 (26715) | 23.19 | 22.25 | 21.26 |
| | | 819(26740) | 23.27 | 22.34 | 21.36 |
| | | 821.5(26765) | 23.38 | 22.66 | 21.58 |
| | 1RB-Low (0) | 816.5 (26715) | 22.97 | 22.04 | 21.12 |
| | | 819(26740) | 23.13 | 22.40 | 21.21 |
| | | 821.5(26765) | 23.69 | 22.74 | 21.71 |
| | 12RB-High (13) | 816.5 (26715) | 22.19 | 21.23 | 20.11 |
| | | 819(26740) | 22.01 | 21.14 | 20.05 |
| | | 821.5(26765) | 22.37 | 21.64 | 20.54 |
| | 12RB-Middle (6) | 816.5 (26715) | 22.12 | 21.13 | 20.03 |
| | | 819(26740) | 22.18 | 21.34 | 20.01 |
| | | 821.5(26765) | 22.39 | 21.51 | 20.40 |
| | 12RB-Low (0) | 816.5 (26715) | 22.14 | 21.41 | 20.26 |
| | | 819(26740) | 22.09 | 21.30 | 20.12 |
| | | 821.5(26765) | 22.39 | 21.66 | 20.47 |
| | 25RB (0) | 816.5 (26715) | 22.10 | 21.36 | 20.19 |
| | | 819(26740) | 21.97 | 21.10 | 20.10 |
| | | 821.5(26765) | 22.36 | 21.60 | 20.40 |
| 10MHz | 1RB-High (49) | 819(26740) | 23.36 | 22.35 | 21.33 |
| | 1RB-Middle (24) | 819(26740) | 23.03 | 22.22 | 21.03 |
| | 1RB-Low (0) | 819(26740) | 23.35 | 22.57 | 21.38 |
| | 25RB-High (25) | 819(26740) | 23.13 | 22.33 | 21.16 |
| | 25RB-Middle (12) | 819(26740) | 23.23 | 22.35 | 21.40 |
| | 25RB-Low (0) | 819(26740) | 23.43 | 22.52 | 21.45 |
| | 50RB (0) | 819(26740) | 22.99 | 22.10 | 21.10 |

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 | 1RB-High (5) | 848.3 (20643) | 23.10 | 22.28 | 21.19 |
| | | 836.5 (20525) | 22.98 | 22.23 | 21.13 |
| | | 824.7 (20407) | 23.41 | 22.53 | 21.56 |
| | 1RB-Middle (3) | 848.3 (20643) | 23.11 | 22.27 | 21.17 |
| | | 836.5 (20525) | 22.98 | 22.26 | 21.13 |
| | | 824.7 (20407) | 23.43 | 22.56 | 21.59 |
| | 1RB-Low (0) | 848.3 (20643) | 23.05 | 22.21 | 21.14 |
| | | 836.5 (20525) | 23.01 | 22.23 | 21.14 |
| | | 824.7 (20407) | 23.41 | 22.54 | 21.62 |
| | 3RB-High (3) | 848.3 (20643) | 23.18 | 22.15 | 21.26 |
| | | 836.5 (20525) | 22.97 | 21.97 | 21.10 |
| | | 824.7 (20407) | 23.43 | 22.43 | 21.48 |
| | 3RB-Middle (1) | 848.3 (20643) | 23.14 | 22.17 | 21.24 |
| | | 836.5 (20525) | 23.02 | 22.03 | 21.13 |
| | | 824.7 (20407) | 23.45 | 22.47 | 21.53 |
| | 3RB-Low (0) | 848.3 (20643) | 23.15 | 22.16 | 21.25 |
| | | 836.5 (20525) | 23.01 | 21.98 | 21.10 |
| | | 824.7 (20407) | 23.46 | 22.46 | 21.52 |
| | 6RB (0) | 848.3 (20643) | 22.18 | 21.34 | 20.12 |
| | | 836.5 (20525) | 22.01 | 21.19 | 19.99 |
| | | 824.7 (20407) | 22.39 | 21.60 | 20.38 |
| 3MHz | 1RB-High (14) | 847.5 (20635) | 23.10 | 22.25 | 21.18 |
| | | 836.5 (20525) | 22.87 | 22.07 | 21.01 |
| | | 825.5 (20415) | 23.30 | 22.47 | 21.48 |
| | 1RB-Middle (7) | 847.5 (20635) | 23.06 | 22.18 | 21.14 |
| | | 836.5 (20525) | 23.00 | 22.14 | 21.14 |
| | | 825.5 (20415) | 23.34 | 22.48 | 21.52 |
| | 1RB-Low (0) | 847.5 (20635) | 22.94 | 22.04 | 21.02 |
| | | 836.5 (20525) | 22.94 | 22.15 | 21.11 |
| | | 825.5 (20415) | 23.36 | 22.51 | 21.55 |
| | 8RB-High (7) | 847.5 (20635) | 22.04 | 21.27 | 20.12 |
| | | 836.5 (20525) | 21.87 | 21.10 | 19.98 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 825.5 (20415) | 22.32 | 21.52 | 20.45 |
| | 8RB-Middle (4) | 847.5 (20635) | 22.03 | 21.27 | 20.10 |
| | | 836.5 (20525) | 21.91 | 21.12 | 20.00 |
| | | 825.5 (20415) | 22.29 | 21.50 | 20.43 |
| | 8RB-Low (0) | 847.5 (20635) | 22.01 | 21.24 | 20.10 |
| | | 836.5 (20525) | 21.93 | 21.19 | 20.05 |
| | | 825.5 (20415) | 22.31 | 21.52 | 20.42 |
| | 15RB (0) | 847.5 (20635) | 22.01 | 21.24 | 20.08 |
| | | 836.5 (20525) | 21.89 | 21.09 | 19.95 |
| | | 825.5 (20415) | 22.33 | 21.51 | 20.37 |
| 5MHz | 1RB-High (24) | 846.5 (20625) | 23.20 | 22.25 | 21.28 |
| | | 836.5 (20525) | 22.94 | 22.10 | 21.07 |
| | | 826.5 (20425) | 23.33 | 22.45 | 21.41 |
| | 1RB-Middle (12) | 846.5 (20625) | 23.03 | 22.06 | 21.12 |
| | | 836.5 (20525) | 23.02 | 22.20 | 21.15 |
| | | 826.5 (20425) | 23.37 | 22.47 | 21.47 |
| | 1RB-Low (0) | 846.5 (20625) | 22.87 | 22.00 | 20.99 |
| | | 836.5 (20525) | 23.02 | 22.21 | 21.17 |
| | | 826.5 (20425) | 23.49 | 22.57 | 21.54 |
| | 12RB-High (13) | 846.5 (20625) | 21.97 | 21.11 | 20.02 |
| | | 836.5 (20525) | 21.88 | 21.01 | 19.92 |
| | | 826.5 (20425) | 22.29 | 21.40 | 20.37 |
| | 12RB-Middle (6) | 846.5 (20625) | 21.95 | 21.10 | 20.01 |
| | | 836.5 (20525) | 21.96 | 21.09 | 20.01 |
| | | 826.5 (20425) | 22.31 | 21.45 | 20.36 |
| | 12RB-Low (0) | 846.5 (20625) | 22.03 | 21.16 | 20.08 |
| | | 836.5 (20525) | 21.99 | 21.11 | 20.05 |
| | | 826.5 (20425) | 22.35 | 21.50 | 20.42 |
| | 25RB (0) | 846.5 (20625) | 21.99 | 21.17 | 20.00 |
| | | 836.5 (20525) | 21.89 | 21.06 | 19.95 |
| | | 826.5 (20425) | 22.31 | 21.47 | 20.36 |
| | | 844 (20600) | 23.21 | 22.35 | 21.22 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 10MHz | 1RB-High (49) | 836.5 (20525) | 22.93 | 22.11 | 21.03 |
| | | 829 (20450) | 23.16 | 22.33 | 21.23 |
| | 1RB-Middle (24) | 844 (20600) | 22.93 | 22.08 | 21.00 |
| | | 836.5 (20525) | 23.05 | 22.19 | 21.21 |
| | | 829 (20450) | 23.26 | 22.39 | 21.40 |
| | 1RB-Low (0) | 844 (20600) | 22.88 | 22.05 | 20.91 |
| | | 836.5 (20525) | 23.08 | 22.27 | 21.19 |
| | | 829 (20450) | 23.38 | 22.52 | 21.47 |
| | 25RB-High (25) | 844 (20600) | 21.81 | 21.01 | 19.89 |
| | | 836.5 (20525) | 21.89 | 21.06 | 19.98 |
| | | 829 (20450) | 22.15 | 21.34 | 20.22 |
| | 25RB-Middle (12) | 844 (20600) | 21.82 | 21.02 | 19.89 |
| | | 836.5 (20525) | 21.93 | 21.09 | 20.02 |
| | | 829 (20450) | 22.20 | 21.32 | 20.28 |
| | 25RB-Low (0) | 844 (20600) | 21.82 | 21.00 | 19.90 |
| | | 836.5 (20525) | 21.99 | 21.13 | 20.05 |
| | | 829 (20450) | 22.27 | 21.43 | 20.36 |
| | 50RB (0) | 844 (20600) | 21.81 | 20.94 | 19.88 |
| | | 836.5 (20525) | 21.94 | 21.03 | 20.00 |
| | | 829 (20450) | 22.19 | 21.34 | 20.28 |
| 15MHz | 1RB-High (74) | 831.5(20525) | 23.02 | 22.26 | 21.24 |
| | | 836.5 (20525) | 22.87 | 22.06 | 21.08 |
| | | 841.5 (26965) | 23.06 | 22.21 | 21.23 |
| | 1RB-Middle (37) | 831.5(20525) | 22.82 | 22.05 | 21.03 |
| | | 836.5 (20525) | 23.01 | 22.18 | 21.22 |
| | | 841.5 (26965) | 23.16 | 22.29 | 21.31 |
| | 1RB-Low (0) | 831.5(20525) | 22.82 | 22.06 | 21.01 |
| | | 836.5 (20525) | 23.01 | 22.16 | 21.20 |
| | | 841.5 (26965) | 23.30 | 22.44 | 21.43 |
| | 36RB-High (38) | 831.5(20525) | 21.81 | 20.94 | 19.90 |
| | | 836.5 (20525) | 21.85 | 20.97 | 19.94 |
| | | 841.5 (26965) | 22.02 | 21.18 | 20.16 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | 36RB-Middle (19) | 831.5(20525) | 21.79 | 20.93 | 19.90 |
| | | 836.5 (20525) | 21.94 | 21.04 | 20.05 |
| | | 841.5 (26965) | 22.09 | 21.20 | 20.18 |
| | 36RB-Low (0) | 831.5(20525) | 21.80 | 20.93 | 19.88 |
| | | 836.5 (20525) | 22.00 | 21.11 | 20.11 |
| | | 841.5 (26965) | 22.19 | 21.31 | 20.29 |
| | 75RB (0) | 831.5(20525) | 21.80 | 20.93 | 19.88 |
| | | 836.5 (20525) | 21.91 | 21.02 | 20.00 |
| | | 841.5 (26965) | 22.13 | 21.20 | 20.23 |

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 | 1RB-High (24) | 2687.5 (41565) | 23.74 | 22.71 | 21.44 |
| | | 2640.3(41093) | 23.75 | 22.71 | 21.41 |
| | | 2593 (40620) | 23.68 | 22.66 | 21.35 |
| | | 2545.8(40148) | 23.99 | 22.97 | 21.63 |
| | | 2498.5 (39675) | 23.94 | 22.89 | 21.60 |
| | 1RB-Middle (12) | 2687.5 (41565) | 23.78 | 22.70 | 21.41 |
| | | 2640.3(41093) | 23.87 | 22.81 | 21.51 |
| | | 2593 (40620) | 23.78 | 22.68 | 21.40 |
| | | 2545.8(40148) | 23.99 | 22.94 | 21.65 |
| | | 2498.5 (39675) | 23.97 | 22.85 | 21.57 |
| | 1RB-Low (0) | 2687.5 (41565) | 23.75 | 22.69 | 21.42 |
| | | 2640.3(41093) | 23.88 | 22.82 | 21.54 |
| | | 2593 (40620) | 23.72 | 22.67 | 21.40 |
| | | 2545.8(40148) | 23.91 | 22.91 | 21.62 |
| | | 2498.5 (39675) | 23.88 | 22.80 | 21.54 |
| | 12RB-High (13) | 2687.5 (41565) | 22.66 | 21.60 | 20.70 |
| | | 2640.3(41093) | 22.69 | 21.61 | 20.57 |
| | | 2593 (40620) | 22.61 | 21.52 | 20.47 |
| | | 2545.8(40148) | 22.93 | 21.86 | 20.81 |
| | | 2498.5 (39675) | 22.85 | 21.78 | 20.73 |
| | 12RB-Middle (6) | 2687.5 (41565) | 22.67 | 21.60 | 20.70 |
| | | 2640.3(41093) | 22.74 | 21.67 | 20.64 |
| | | 2593 (40620) | 22.62 | 21.56 | 20.51 |
| | | 2545.8(40148) | 22.92 | 21.86 | 20.80 |
| | | 2498.5 (39675) | 22.86 | 21.78 | 20.72 |
| | 12RB-Low (0) | 2687.5 (41565) | 22.70 | 21.65 | 20.74 |
| | | 2640.3(41093) | 22.81 | 21.73 | 20.69 |
| | | 2593 (40620) | 22.67 | 21.61 | 20.58 |
| | | 2545.8(40148) | 22.95 | 21.88 | 20.83 |
| | | 2498.5 (39675) | 22.85 | 21.79 | 20.72 |
| | 25RB (0) | 2687.5 (41565) | 22.67 | 21.70 | 20.77 |
| | | 2640.3(41093) | 22.74 | 21.73 | 20.65 |
| | | 2593 (40620) | 22.67 | 21.65 | 20.56 |
| | | 2545.8(40148) | 22.95 | 21.94 | 20.85 |
| | | 2498.5 (39675) | 22.85 | 21.86 | 20.78 |
| 10MHz | 1RB-High (49) | 2685 (41540) | 23.70 | 22.69 | 21.38 |
| | | 2639(41080) | 23.71 | 22.66 | 21.35 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 2593 (40620) | 23.61 | 22.60 | 21.25 |
| | | 2547(40160) | 24.02 | 23.01 | 21.66 |
| | | 2501 (39700) | 24.01 | 22.95 | 21.65 |
| | 1RB-Middle (24) | 2685 (41540) | 23.70 | 22.69 | 21.34 |
| | | 2639(41080) | 23.81 | 22.78 | 21.47 |
| | | 2593 (40620) | 23.71 | 22.69 | 21.36 |
| | | 2547(40160) | 24.01 | 22.99 | 21.64 |
| | | 2501 (39700) | 23.93 | 22.90 | 21.56 |
| | 1RB-Low (0) | 2685 (41540) | 23.71 | 22.70 | 21.37 |
| | | 2639(41080) | 23.99 | 22.97 | 21.62 |
| | | 2593 (40620) | 23.75 | 22.74 | 21.39 |
| | | 2547(40160) | 23.92 | 22.90 | 21.55 |
| | | 2501 (39700) | 23.84 | 22.80 | 21.46 |
| | 25RB-High (25) | 2685 (41540) | 22.62 | 21.65 | 20.71 |
| | | 2639(41080) | 22.72 | 21.76 | 20.63 |
| | | 2593 (40620) | 22.62 | 21.64 | 20.54 |
| | | 2547(40160) | 22.98 | 21.99 | 20.90 |
| | | 2501 (39700) | 22.94 | 21.95 | 20.86 |
| | 25RB-Middle (12) | 2685 (41540) | 22.69 | 21.69 | 20.75 |
| | | 2639(41080) | 22.80 | 21.82 | 20.71 |
| | | 2593 (40620) | 22.66 | 21.67 | 20.55 |
| | | 2547(40160) | 22.98 | 21.97 | 20.88 |
| | | 2501 (39700) | 22.93 | 21.93 | 20.85 |
| | 25RB-Low (0) | 2685 (41540) | 22.70 | 21.74 | 20.79 |
| | | 2639(41080) | 22.83 | 21.87 | 20.75 |
| | | 2593 (40620) | 22.71 | 21.73 | 20.61 |
| | | 2547(40160) | 22.95 | 21.98 | 20.85 |
| | | 2501 (39700) | 22.87 | 21.88 | 20.77 |
| | 50RB (0) | 2685 (41540) | 22.70 | 21.70 | 20.72 |
| | | 2639(41080) | 22.83 | 21.82 | 20.69 |
| | | 2593 (40620) | 22.67 | 21.68 | 20.53 |
| | | 2547(40160) | 22.98 | 21.97 | 20.85 |
| | | 2501 (39700) | 22.91 | 21.89 | 20.76 |
| 15MHz | 1RB-High (74) | 2682.5 (41515) | 23.62 | 22.62 | 21.34 |
| | | 2637.8(41068) | 23.63 | 22.62 | 21.28 |
| | | 2593 (40620) | 23.55 | 22.53 | 21.21 |
| | | 2548.3(40173) | 23.93 | 22.91 | 21.59 |
| | | 2503.5 (39725) | 24.08 | 23.05 | 21.72 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | 1RB-Middle (37) | 2682.5 (41515) | 23.68 | 22.67 | 21.33 |
| | | 2637.8(41068) | 23.87 | 22.84 | 21.50 |
| | | 2593 (40620) | 23.71 | 22.70 | 21.35 |
| | | 2548.3(40173) | 24.01 | 22.98 | 21.65 |
| | | 2503.5 (39725) | 24.02 | 22.99 | 21.66 |
| | 1RB-Low (0) | 2682.5 (41515) | 23.61 | 22.60 | 21.25 |
| | | 2637.8(41068) | 23.83 | 22.81 | 21.48 |
| | | 2593 (40620) | 23.72 | 22.68 | 21.36 |
| | | 2548.3(40173) | 23.88 | 22.85 | 21.52 |
| | | 2503.5 (39725) | 23.83 | 22.78 | 21.47 |
| | 36RB-High (38) | 2682.5 (41515) | 22.61 | 21.59 | 20.67 |
| | | 2637.8(41068) | 22.68 | 21.66 | 20.57 |
| | | 2593 (40620) | 22.58 | 21.55 | 20.44 |
| | | 2548.3(40173) | 22.98 | 21.92 | 20.82 |
| | | 2503.5 (39725) | 23.04 | 21.99 | 20.89 |
| | 36RB-Middle (19) | 2682.5 (41515) | 22.61 | 21.59 | 20.63 |
| | | 2637.8(41068) | 22.79 | 21.74 | 20.67 |
| | | 2593 (40620) | 22.62 | 21.56 | 20.47 |
| | | 2548.3(40173) | 22.96 | 21.92 | 20.79 |
| | | 2503.5 (39725) | 22.96 | 21.93 | 20.83 |
| | 36RB-Low (0) | 2682.5 (41515) | 22.65 | 21.62 | 20.66 |
| | | 2637.8(41068) | 22.85 | 21.80 | 20.75 |
| | | 2593 (40620) | 22.68 | 21.64 | 20.55 |
| | | 2548.3(40173) | 22.93 | 21.90 | 20.78 |
| | | 2503.5 (39725) | 22.92 | 21.85 | 20.74 |
| | 75RB (0) | 2682.5 (41515) | 22.68 | 21.68 | 20.70 |
| | | 2637.8(41068) | 22.79 | 21.77 | 20.65 |
| | | 2593 (40620) | 22.64 | 21.63 | 20.48 |
| | | 2548.3(40173) | 22.99 | 21.98 | 20.84 |
| | | 2503.5 (39725) | 22.99 | 21.99 | 20.83 |
| 20MHz | 1RB-High (99) | 2680 (41490) | 23.67 | 22.60 | 21.33 |
| | | 2636.5(41055) | 23.64 | 22.57 | 21.27 |
| | | 2593 (40620) | 23.49 | 22.45 | 21.13 |
| | | 2549.5(40185) | 23.90 | 22.85 | 21.52 |
| | | 2506 (39750) | 23.93 | 22.88 | 21.55 |
| | 1RB-Middle (50) | 2680 (41490) | 23.73 | 22.67 | 21.36 |
| | | 2636.5(41055) | 23.94 | 22.88 | 21.53 |
| | | 2593 (40620) | 23.76 | 22.71 | 21.37 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 2549.5(40185) | 24.08 | 23.00 | 21.65 |
| | | 2506 (39750) | 24.07 | 23.01 | 21.68 |
| | 1RB-Low (0) | 2680 (41490) | 23.48 | 22.44 | 21.16 |
| | | 2636.5(41055) | 23.76 | 22.71 | 21.41 |
| | | 2593 (40620) | 23.73 | 22.70 | 21.35 |
| | | 2549.5(40185) | 23.88 | 22.84 | 21.48 |
| | | 2506 (39750) | 23.82 | 22.75 | 21.44 |
| | 50RB-High (50) | 2680 (41490) | 22.66 | 21.62 | 20.69 |
| | | 2636.5(41055) | 22.79 | 21.75 | 20.63 |
| | | 2593 (40620) | 22.62 | 21.60 | 20.44 |
| | | 2549.5(40185) | 22.99 | 21.98 | 20.82 |
| | | 2506 (39750) | 23.07 | 22.04 | 20.90 |
| | 50RB-Middle (25) | 2680 (41490) | 22.70 | 21.67 | 20.73 |
| | | 2636.5(41055) | 22.91 | 21.86 | 20.78 |
| | | 2593 (40620) | 22.71 | 21.70 | 20.60 |
| | | 2549.5(40185) | 23.05 | 22.05 | 20.90 |
| | | 2506 (39750) | 23.07 | 22.05 | 20.91 |
| | 50RB-Low (0) | 2680 (41490) | 22.69 | 21.66 | 20.72 |
| | | 2636.5(41055) | 22.87 | 21.87 | 20.76 |
| | | 2593 (40620) | 22.76 | 21.75 | 20.64 |
| | | 2549.5(40185) | 23.02 | 22.02 | 20.87 |
| | | 2506 (39750) | 22.97 | 21.94 | 20.83 |
| | 100RB (0) | 2680 (41490) | 22.65 | 21.61 | 20.67 |
| | | 2636.5(41055) | 22.84 | 21.79 | 20.70 |
| | | 2593 (40620) | 22.67 | 21.64 | 20.53 |
| | | 2549.5(40185) | 23.01 | 21.98 | 20.84 |
| | | 2506 (39750) | 23.00 | 21.98 | 20.83 |

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

**LTE band 42(3450MHz-3550MHz)**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 3547.5（43065） | 23.05 | 22.05 | 20.85 |
| | | 3500（42590） | 23.43 | 22.39 | 21.15 |
| | | 3452.5（42115） | 22.98 | 21.98 | 20.71 |
| | 1RB-Middle (12) | 3547.5（43065） | 23.12 | 22.08 | 20.88 |
| | | 3500（42590） | 23.49 | 22.44 | 21.19 |
| | | 3452.5（42115） | 23.02 | 22.02 | 20.71 |
| | 1RB-Low (0) | 3547.5（43065） | 23.10 | 22.06 | 20.85 |
| | | 3500（42590） | 23.42 | 22.36 | 21.10 |
| | | 3452.5（42115） | 23.06 | 22.02 | 20.77 |
| | 12RB-High (13) | 3547.5（43065） | 21.96 | 20.89 | 20.15 |
| | | 3500（42590） | 22.33 | 21.28 | 20.35 |
| | | 3452.5（42115） | 21.89 | 20.84 | 20.08 |
| | 12RB-Middle (6) | 3547.5（43065） | 21.98 | 20.91 | 20.16 |
| | | 3500（42590） | 22.32 | 21.24 | 20.43 |
| | | 3452.5（42115） | 21.94 | 20.88 | 20.05 |
| | 12RB-Low (0) | 3547.5（43065） | 22.05 | 20.98 | 20.21 |
| | | 3500（42590） | 22.34 | 21.25 | 20.48 |
| | | 3452.5（42115） | 21.99 | 20.91 | 20.13 |
| | 25RB (0) | 3547.5（43065） | 21.99 | 21.00 | 20.23 |
| | | 3500（42590） | 22.35 | 21.33 | 20.56 |
| | | 3452.5（42115） | 21.95 | 20.95 | 20.15 |
| 10MHz | 1RB-High (49) | 3545（43040） | 23.01 | 22.03 | 20.62 |
| | | 3500（42590） | 23.39 | 22.36 | 20.98 |
| | | 3455（42140） | 22.92 | 21.89 | 20.51 |
| | 1RB-Middle (24) | 3545（43040） | 23.04 | 22.09 | 20.68 |
| | | 3500（42590） | 23.45 | 22.46 | 21.03 |
| | | 3455（42140） | 23.00 | 22.03 | 20.60 |
| | 1RB-Low (0) | 3545（43040） | 23.04 | 22.03 | 20.64 |
| | | 3500（42590） | 23.36 | 22.33 | 20.96 |
| | | 3455（42140） | 23.05 | 22.02 | 20.63 |
| | 25RB-High (25) | 3545（43040） | 21.98 | 20.99 | 20.07 |
| | | 3500（42590） | 22.36 | 21.38 | 20.31 |
| | | 3455（42140） | 21.90 | 20.89 | 19.98 |
| | 25RB-Middle (12) | 3545（43040） | 21.97 | 20.98 | 20.07 |
| | | 3500（42590） | 22.31 | 21.31 | 20.37 |
| | | 3455（42140） | 21.93 | 20.95 | 20.04 |
| | 25RB-Low (0) | 3545（43040） | 21.99 | 21.01 | 20.10 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 3500（42590） | 22.32 | 21.32 | 20.38 |
| | | 3455（42140） | 21.93 | 20.94 | 20.00 |
| | 50RB (0) | 3545（43040） | 22.03 | 20.98 | 20.03 |
| | | 3500（42590） | 22.37 | 21.34 | 20.39 |
| | | 3455（42140） | 21.96 | 20.96 | 20.01 |
| 15MHz | 1RB-High (74) | 3542.5 (43015) | 22.97 | 22.00 | 20.57 |
| | | 3500 (42590) | 23.35 | 22.35 | 20.95 |
| | | 3457.5 (42165) | 22.80 | 21.84 | 20.41 |
| | 1RB-Middle (37) | 3542.5 (43015) | 23.06 | 22.05 | 20.64 |
| | | 3500 (42590) | 23.44 | 22.42 | 21.00 |
| | | 3457.5 (42165) | 22.94 | 21.93 | 20.50 |
| | 1RB-Low (0) | 3542.5 (43015) | 23.01 | 22.02 | 20.60 |
| | | 3500 (42590) | 23.35 | 22.29 | 20.91 |
| | | 3457.5 (42165) | 22.99 | 21.97 | 20.59 |
| | 36RB-High (38) | 3542.5 (43015) | 21.97 | 20.95 | 20.02 |
| | | 3500 (42590) | 22.38 | 21.27 | 20.19 |
| | | 3457.5 (42165) | 21.79 | 20.75 | 19.79 |
| | 36RB-Middle (19) | 3542.5 (43015) | 21.97 | 20.93 | 19.97 |
| | | 3500 (42590) | 22.35 | 21.26 | 20.33 |
| | | 3457.5 (42165) | 21.83 | 20.80 | 19.88 |
| | 36RB-Low (0) | 3542.5 (43015) | 21.98 | 20.90 | 20.03 |
| | | 3500 (42590) | 22.24 | 21.25 | 20.27 |
| | | 3457.5 (42165) | 21.92 | 20.83 | 19.94 |
| | 75RB (0) | 3542.5 (43015) | 21.98 | 21.00 | 20.03 |
| | | 3500 (42590) | 22.37 | 21.31 | 20.36 |
| | | 3457.5 (42165) | 21.89 | 20.85 | 19.91 |
| 20MHz | 1RB-High (99) | 3540 (42990) | 22.93 | 21.97 | 20.51 |
| | | 3500 (42590) | 23.43 | 22.34 | 20.91 |
| | | 3460 (42190) | 22.86 | 21.81 | 20.39 |
| | 1RB-Middle (50) | 3540 (42990) | 23.19 | 22.05 | 20.58 |
| | | 3500 (42590) | 23.53 | 22.44 | 21.00 |
| | | 3460 (42190) | 23.07 | 21.91 | 20.47 |
| | 1RB-Low (0) | 3540 (42990) | 23.17 | 22.07 | 20.64 |
| | | 3500 (42590) | 23.34 | 22.25 | 20.84 |
| | | 3460 (42190) | 23.03 | 21.96 | 20.55 |
| | 50RB-High (50) | 3540 (42990) | 22.17 | 21.01 | 19.95 |
| | | 3500 (42590) | 22.49 | 21.39 | 20.23 |

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) | | |
|---|---|---|---|---|---|
| | | | QPSK | 16QAM | 64QAM |
| | | 3460 (42190) | 21.99 | 20.86 | 19.85 |
| | 50RB-Middle (25) | 3540 (42990) | 22.15 | 21.01 | 20.06 |
| | | 3500 (42590) | 22.45 | 21.37 | 20.41 |
| | | 3460 (42190) | 21.93 | 20.93 | 19.92 |
| | 50RB-Low (0) | 3540 (42990) | 22.12 | 21.04 | 20.03 |
| | | 3500 (42590) | 22.39 | 21.33 | 20.38 |
| | | 3460 (42190) | 21.97 | 20.95 | 19.96 |
| | 100RB (0) | 3540 (42990) | 22.11 | 21.03 | 20.00 |
| | | 3500 (42590) | 22.38 | 21.32 | 20.33 |
| | | 3460 (42190) | 21.94 | 20.87 | 19.87 |

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 | 19.14 | 19.42 | 19.34 |
| | | 1745.0 | 19.26 | 19.52 | 19.46 |
| | | 1710.7 | 18.80 | 19.08 | 18.87 |
| | 1 RB low | 1779.3 | 19.13 | 19.41 | 19.31 |
| | | 1745.0 | 19.26 | 19.52 | 19.48 |
| | | 1710.7 | 18.78 | 19.12 | 18.87 |
| | 50% RB mid | 1779.3 | 19.13 | 19.35 | 19.33 |
| | | 1745.0 | 19.25 | 19.53 | 19.49 |
| | | 1710.7 | 18.77 | 19.05 | 18.86 |
| | 100% RB | 1779.3 | 19.13 | 19.16 | 19.26 |
| | | 1745.0 | 19.23 | 19.28 | 19.37 |
| | | 1710.7 | 18.79 | 18.84 | 18.88 |
| 3MHz | 1 RB high | 1778.5 | 19.10 | 19.12 | 19.21 |
| | | 1745.0 | 19.20 | 19.28 | 19.37 |
| | | 1711.5 | 18.76 | 18.81 | 18.84 |
| | 1 RB low | 1778.5 | 19.11 | 19.13 | 19.22 |
| | | 1745.0 | 19.21 | 19.27 | 19.33 |
| | | 1711.5 | 18.76 | 18.83 | 18.92 |
| | 50% RB mid | 1778.5 | 19.15 | 19.23 | 19.10 |
| | | 1745.0 | 19.25 | 19.34 | 19.22 |
| | | 1711.5 | 18.80 | 18.89 | 18.77 |
| | 100% RB | 1778.5 | 19.09 | 19.36 | 19.28 |
| | | 1745.0 | 19.21 | 19.60 | 19.41 |
| | | 1711.5 | 18.81 | 19.20 | 19.06 |
| 5MHz | 1 RB high | 1777.5 | 19.13 | 19.41 | 19.32 |
| | | 1745.0 | 19.22 | 19.63 | 19.49 |
| | | 1712.5 | 18.80 | 19.18 | 19.11 |
| | 1 RB low | 1777.5 | 19.02 | 19.34 | 19.22 |
| | | 1745.0 | 19.24 | 19.65 | 19.42 |
| | | 1712.5 | 18.72 | 19.15 | 19.01 |
| | 50% RB mid | 1777.5 | 19.10 | 19.15 | 19.22 |
| | | 1745.0 | 19.20 | 19.27 | 19.27 |
| | | 1712.5 | 18.84 | 18.94 | 18.90 |
| | 100% RB | 1777.5 | 19.08 | 19.16 | 19.14 |
| | | 1745.0 | 19.19 | 19.27 | 19.27 |
| | | 1712.5 | 18.82 | 18.92 | 18.86 |
| 10MHz | 1 RB high | 1775.0 | 19.09 | 19.13 | 19.14 |

| | | | | | |
|---|---|---|---|---|---|
| | | 1745.0 | 19.25 | 19.32 | 19.34 |
| | | 1715.0 | 18.80 | 18.90 | 18.82 |
| | 1 RB low | 1775.0 | 19.09 | 19.15 | 19.12 |
| | | 1745.0 | 19.20 | 19.29 | 19.29 |
| | | 1715.0 | 18.80 | 18.91 | 18.89 |
| | 50% RB mid | 1775.0 | 19.12 | 19.29 | 19.30 |
| | | 1745.0 | 19.23 | 19.41 | 19.34 |
| | | 1715.0 | 18.90 | 19.16 | 19.08 |
| | 100% RB | 1775.0 | 19.13 | 19.31 | 19.29 |
| | | 1745.0 | 19.29 | 19.47 | 19.38 |
| | | 1715.0 | 18.88 | 19.13 | 19.09 |
| 15MHz | 1 RB high | 1772.5 | 19.06 | 19.25 | 19.27 |
| | | 1745.0 | 19.29 | 19.50 | 19.41 |
| | | 1717.5 | 18.75 | 19.03 | 18.98 |
| | 1 RB low | 1772.5 | 19.09 | 19.13 | 19.13 |
| | | 1745.0 | 19.19 | 19.26 | 19.29 |
| | | 1717.5 | 18.89 | 18.89 | 18.98 |
| | 50% RB mid | 1772.5 | 19.11 | 19.15 | 19.18 |
| | | 1745.0 | 19.24 | 19.29 | 19.31 |
| | | 1717.5 | 18.85 | 18.91 | 18.93 |
| | 100% RB | 1772.5 | 19.10 | 19.16 | 19.18 |
| | | 1745.0 | 19.28 | 19.33 | 19.39 |
| | | 1717.5 | 18.80 | 18.78 | 18.84 |
| 20MHz | 1 RB high | 1770.0 | 19.12 | 19.15 | 19.14 |
| | | 1745.0 | 19.26 | 19.29 | 19.25 |
| | | 1720.0 | 18.88 | 18.92 | 18.90 |
| | 1 RB low | 1770.0 | 19.10 | 19.39 | 19.26 |
| | | 1745.0 | 19.23 | 19.48 | 19.42 |
| | | 1720.0 | 19.08 | 19.35 | 19.25 |
| | 50% RB mid | 1770.0 | 19.13 | 19.42 | 19.29 |
| | | 1745.0 | 19.28 | 19.59 | 19.49 |
| | | 1720.0 | 19.01 | 19.24 | 19.17 |
| | 100% RB | 1770.0 | 19.11 | 19.41 | 19.27 |
| | | 1745.0 | 19.38 | 19.68 | 19.57 |
| | | 1720.0 | 18.85 | 19.09 | 18.99 |

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

### A.1.3 Radiated

#### A.1.3.1 Description

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

LTE Band 2/25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

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

LTE Band 5/26(824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

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

LTE Band 12/17: Part 27.50(c)(10) specifies "Portable stations(hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"..

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

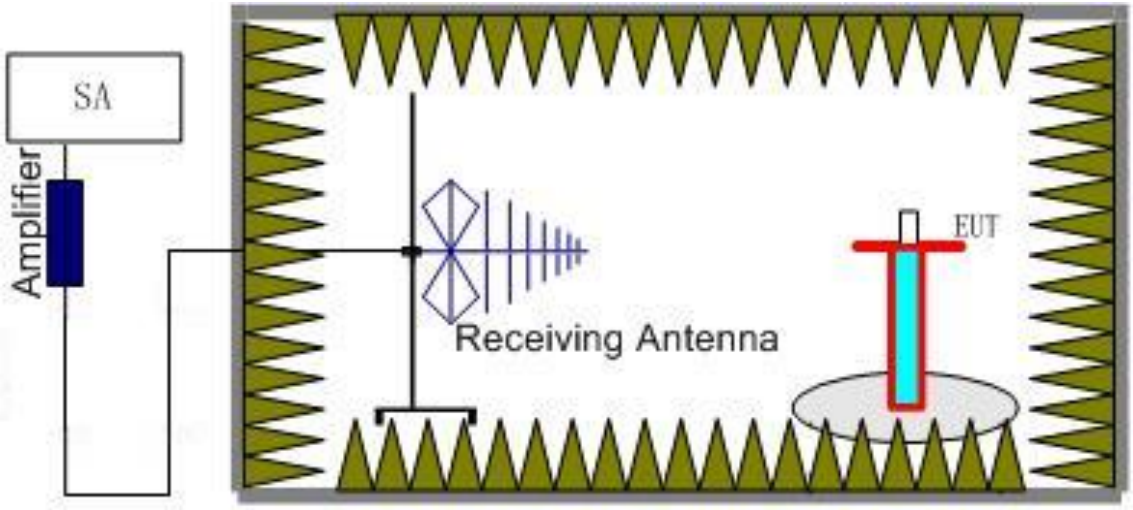
LTE Band 26(814MHz~824MHz): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

LTE Band 42(3450MHz-3550MHz): Part 27.50(k)(3) specifies "Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications".

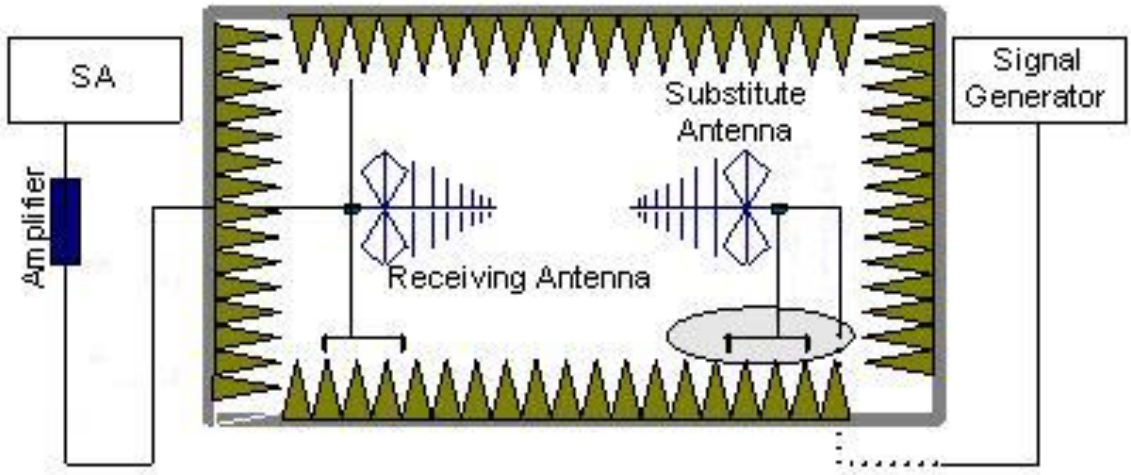
LTE Band 48/42(3450MHz-3550MHz): Part 96.41(b) specifies "The maximum EIRP of the end user device is 23(dBm/10MHz)".

#### 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:
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

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

**Limits:** ≤33 dBm (2W)

**LTE Band 7_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2502.50 | -19.48 | -28.70 | 10.70 | 19.92 | 33.00 | H |
| 2535.00 | -19.59 | -28.60 | 10.70 | 19.71 | 33.00 | H |
| 2567.50 | -19.63 | -28.60 | 10.70 | 19.67 | 33.00 | H |

**LTE Band 7_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2505.00 | -19.76 | -28.70 | 10.70 | 19.64 | 33.00 | H |
| 2535.00 | -19.25 | -28.60 | 10.70 | 20.05 | 33.00 | H |
| 2565.00 | -19.92 | -28.60 | 10.70 | 19.38 | 33.00 | H |

**LTE Band 7_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2507.50 | -19.41 | -28.70 | 10.70 | 19.99 | 33.00 | H |
| 2535.00 | -19.45 | -28.60 | 10.70 | 19.85 | 33.00 | H |
| 2562.50 | -19.48 | -28.60 | 10.70 | 19.82 | 33.00 | H |

**LTE Band 7_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2510.00 | -19.52 | -28.70 | 10.70 | 19.88 | 33.00 | H |
| 2535.00 | -20.09 | -28.60 | 10.70 | 19.21 | 33.00 | H |
| 2560.00 | -19.33 | -28.60 | 10.70 | 19.97 | 33.00 | H |

**LTE Band 7_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2502.50 | -20.18 | -28.70 | 10.70 | 19.22 | 33.00 | H |
| 2535.00 | -19.60 | -28.60 | 10.70 | 19.70 | 33.00 | H |
| 2567.50 | -20.14 | -28.60 | 10.70 | 19.16 | 33.00 | H |

**LTE Band 7_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2505.00 | -19.29 | -28.70 | 10.70 | 20.11 | 33.00 | H |
| 2535.00 | -19.59 | -28.60 | 10.70 | 19.71 | 33.00 | H |
| 2565.00 | -19.21 | -28.60 | 10.70 | 20.09 | 33.00 | H |

**LTE Band 7_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2507.50 | -20.05 | -28.70 | 10.70 | 19.35 | 33.00 | H |
| 2535.00 | -19.32 | -28.60 | 10.70 | 19.98 | 33.00 | H |
| 2562.50 | -19.18 | -28.60 | 10.70 | 20.12 | 33.00 | H |

**LTE Band 7_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2510.00 | -19.85 | -28.70 | 10.70 | 19.55 | 33.00 | H |
| 2535.00 | -20.10 | -28.60 | 10.70 | 19.20 | 33.00 | H |
| 2560.00 | -19.83 | -28.60 | 10.70 | 19.47 | 33.00 | H |

**LTE Band 7_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2502.50 | -19.48 | -28.70 | 10.70 | 19.92 | 33.00 | H |
| 2535.00 | -19.34 | -28.60 | 10.70 | 19.96 | 33.00 | H |
| 2567.50 | -19.56 | -28.60 | 10.70 | 19.74 | 33.00 | H |

**LTE Band 7_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2505.00 | -20.18 | -28.70 | 10.70 | 19.22 | 33.00 | H |
| 2535.00 | -19.28 | -28.60 | 10.70 | 20.02 | 33.00 | H |
| 2565.00 | -20.14 | -28.60 | 10.70 | 19.16 | 33.00 | H |

**LTE Band 7_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2507.50 | -20.19 | -28.70 | 10.70 | 19.21 | 33.00 | H |
| 2535.00 | -19.41 | -28.60 | 10.70 | 19.89 | 33.00 | H |
| 2562.50 | -19.80 | -28.60 | 10.70 | 19.50 | 33.00 | H |

**LTE Band 7_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2510.00 | -19.75 | -28.70 | 10.70 | 19.65 | 33.00 | H |
| 2535.00 | -19.80 | -28.60 | 10.70 | 19.50 | 33.00 | H |
| 2560.00 | -19.87 | -28.60 | 10.70 | 19.43 | 33.00 | H |

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

**Limits:** ≤34.77dBm (3W)

**LTE Band 12_1.4MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 699.70 | -12.91 | -34.80 | -0.93 | 2.15 | 18.81 | 34.77 | V |
| 707.50 | -12.91 | -34.70 | -0.91 | 2.15 | 18.73 | 34.77 | V |
| 715.30 | -13.44 | -34.70 | -0.68 | 2.15 | 18.43 | 34.77 | V |

**LTE Band 12_3MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 700.50 | -13.19 | -34.80 | -0.97 | 2.15 | 18.49 | 34.77 | V |
| 707.50 | -12.73 | -34.70 | -0.91 | 2.15 | 18.91 | 34.77 | V |
| 714.50 | -12.92 | -34.70 | -0.64 | 2.15 | 18.99 | 34.77 | V |

**LTE Band 12_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 701.50 | -12.73 | -34.80 | -0.97 | 2.15 | 18.95 | 34.77 | V |
| 707.50 | -12.72 | -34.70 | -0.91 | 2.15 | 18.92 | 34.77 | V |
| 713.50 | -12.95 | -34.70 | -0.64 | 2.15 | 18.96 | 34.77 | V |

**LTE Band 12_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 704.00 | -13.04 | -34.80 | -0.97 | 2.15 | 18.64 | 34.77 | V |
| 707.50 | -13.33 | -34.70 | -0.91 | 2.15 | 18.31 | 34.77 | V |
| 711.00 | -12.83 | -34.70 | -0.64 | 2.15 | 19.08 | 34.77 | V |

**LTE Band 12_1.4MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 699.70 | -13.54 | -34.80 | -0.93 | 2.15 | 18.18 | 34.77 | V |
| 707.50 | -13.36 | -34.70 | -0.91 | 2.15 | 18.28 | 34.77 | V |
| 715.30 | -13.66 | -34.70 | -0.68 | 2.15 | 18.21 | 34.77 | V |

**LTE Band 12_3MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 700.50 | -13.36 | -34.80 | -0.97 | 2.15 | 18.32 | 34.77 | V |
| 707.50 | -12.91 | -34.70 | -0.91 | 2.15 | 18.73 | 34.77 | V |
| 714.50 | -13.10 | -34.70 | -0.64 | 2.15 | 18.81 | 34.77 | V |

**LTE Band 12_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 701.50 | -12.96 | -34.80 | -0.97 | 2.15 | 18.72 | 34.77 | V |
| 707.50 | -12.90 | -34.70 | -0.91 | 2.15 | 18.74 | 34.77 | V |
| 713.50 | -13.10 | -34.70 | -0.64 | 2.15 | 18.81 | 34.77 | V |

**LTE Band 12_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 704.00 | -13.16 | -34.80 | -0.97 | 2.15 | 18.52 | 34.77 | V |
| 707.50 | -13.41 | -34.70 | -0.91 | 2.15 | 18.23 | 34.77 | V |
| 711.00 | -13.10 | -34.70 | -0.64 | 2.15 | 18.81 | 34.77 | V |

**LTE Band 12_1.4MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 699.70 | -13.66 | -34.80 | -0.93 | 2.15 | 18.06 | 34.77 | V |
| 707.50 | -13.37 | -34.70 | -0.91 | 2.15 | 18.27 | 34.77 | V |
| 715.30 | -13.74 | -34.70 | -0.68 | 2.15 | 18.13 | 34.77 | V |

**LTE Band 12_3MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 700.50 | -13.47 | -34.80 | -0.97 | 2.15 | 18.21 | 34.77 | V |
| 707.50 | -13.08 | -34.70 | -0.91 | 2.15 | 18.56 | 34.77 | V |
| 714.50 | -13.34 | -34.70 | -0.64 | 2.15 | 18.57 | 34.77 | V |

**LTE Band 12_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 701.50 | -13.05 | -34.80 | -0.97 | 2.15 | 18.63 | 34.77 | V |
| 707.50 | -12.99 | -34.70 | -0.91 | 2.15 | 18.65 | 34.77 | V |
| 713.50 | -13.17 | -34.70 | -0.64 | 2.15 | 18.74 | 34.77 | V |

**LTE Band 12_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 704.00 | -13.27 | -34.80 | -0.97 | 2.15 | 18.41 | 34.77 | V |
| 707.50 | -13.49 | -34.70 | -0.91 | 2.15 | 18.15 | 34.77 | V |
| 711.00 | -13.12 | -34.70 | -0.64 | 2.15 | 18.79 | 34.77 | V |

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

**Limits:** ≤34.77dBm (3W)

**LTE Band 13_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 779.50 | -12.95 | -34.00 | -0.08 | 2.15 | 18.82 | 34.77 | V |
| 782.00 | -13.09 | -34.00 | -0.13 | 2.15 | 18.63 | 34.77 | V |
| 784.50 | -13.35 | -34.00 | -0.13 | 2.15 | 18.37 | 34.77 | V |

**LTE Band 13_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 782.00 | -12.58 | -34.00 | -0.13 | 2.15 | 19.14 | 34.77 | V |

**LTE Band 13_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 779.50 | -13.04 | -34.00 | -0.08 | 2.15 | 18.73 | 34.77 | V |
| 782.00 | -13.20 | -34.00 | -0.13 | 2.15 | 18.52 | 34.77 | V |
| 784.50 | -13.57 | -34.00 | -0.13 | 2.15 | 18.15 | 34.77 | V |

**LTE Band 13_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 782.00 | -12.81 | -34.00 | -0.13 | 2.15 | 18.91 | 34.77 | V |

**LTE Band 13_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 779.50 | -13.26 | -34.00 | -0.08 | 2.15 | 18.51 | 34.77 | V |
| 782.00 | -13.35 | -34.00 | -0.13 | 2.15 | 18.37 | 34.77 | V |
| 784.50 | -13.63 | -34.00 | -0.13 | 2.15 | 18.09 | 34.77 | V |

**LTE Band 13_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 782.00 | -12.97 | -34.00 | -0.13 | 2.15 | 18.75 | 34.77 | V |

**LTE Band 25- ERP Part 27.50(b)(10)**

**Limits:** ≤33.00dBm (2W)

**LTE Band 25_1.4MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1850.70 | -13.10 | -29.30 | 8.10 | 24.30 | 33.00 | H |
| 1882.50 | -13.09 | -29.40 | 8.10 | 24.41 | 33.00 | H |
| 1914.30 | -13.06 | -29.30 | 8.10 | 24.34 | 33.00 | H |

**LTE Band 25_3MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1851.50 | -13.67 | -29.30 | 8.10 | 23.73 | 33.00 | H |
| 1882.50 | -13.39 | -29.40 | 8.10 | 24.11 | 33.00 | H |
| 1913.50 | -12.63 | -29.30 | 8.10 | 24.77 | 33.00 | H |

**LTE Band 25_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1852.50 | -14.81 | -29.30 | 8.10 | 22.59 | 33.00 | H |
| 1882.50 | -14.20 | -29.40 | 8.10 | 23.30 | 33.00 | H |
| 1912.50 | -14.13 | -29.30 | 8.10 | 23.27 | 33.00 | H |

**LTE Band 25_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1855.00 | -15.14 | -29.30 | 8.10 | 22.26 | 33.00 | H |
| 1882.00 | -15.46 | -29.40 | 8.10 | 22.04 | 33.00 | H |
| 1910.00 | -15.01 | -29.30 | 8.10 | 22.39 | 33.00 | H |

**LTE Band 25_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1857.50 | -16.26 | -29.30 | 8.10 | 21.14 | 33.00 | H |
| 1882.50 | -15.79 | -29.40 | 8.10 | 21.71 | 33.00 | H |
| 1907.50 | -15.61 | -29.30 | 8.10 | 21.79 | 33.00 | H |

**LTE Band 25_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1860.00 | -16.89 | -29.30 | 8.10 | 20.51 | 33.00 | H |
| 1882.50 | -16.61 | -29.40 | 8.10 | 20.89 | 33.00 | H |
| 1905.00 | -16.80 | -29.30 | 8.10 | 20.60 | 33.00 | H |

**LTE Band 25_1.4MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1850.70 | -12.27 | -29.30 | 8.10 | 25.13 | 33.00 | H |
| 1882.50 | -12.72 | -29.40 | 8.10 | 24.78 | 33.00 | H |
| 1914.30 | -12.79 | -29.30 | 8.10 | 24.61 | 33.00 | H |

**LTE Band 25_3MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1851.50 | -13.10 | -29.30 | 8.10 | 24.30 | 33.00 | H |
| 1882.50 | -12.88 | -29.40 | 8.10 | 24.62 | 33.00 | H |
| 1913.50 | -12.42 | -29.30 | 8.10 | 24.98 | 33.00 | H |

**LTE Band 25_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1852.50 | -13.87 | -29.30 | 8.10 | 23.53 | 33.00 | H |
| 1882.50 | -14.06 | -29.40 | 8.10 | 23.44 | 33.00 | H |
| 1912.50 | -14.05 | -29.30 | 8.10 | 23.35 | 33.00 | H |

**LTE Band 25_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1855.00 | -15.10 | -29.30 | 8.10 | 22.30 | 33.00 | H |
| 1882.00 | -15.38 | -29.40 | 8.10 | 22.12 | 33.00 | H |
| 1910.00 | -15.81 | -29.30 | 8.10 | 21.59 | 33.00 | H |

**LTE Band 25_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1857.50 | -16.14 | -29.30 | 8.10 | 21.26 | 33.00 | H |
| 1882.50 | -15.75 | -29.40 | 8.10 | 21.75 | 33.00 | H |
| 1907.50 | -15.66 | -29.30 | 8.10 | 21.74 | 33.00 | H |

**LTE Band 25_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1860.00 | -17.45 | -29.30 | 8.10 | 19.95 | 33.00 | H |
| 1882.50 | -17.13 | -29.40 | 8.10 | 20.37 | 33.00 | H |
| 1905.00 | -17.34 | -29.30 | 8.10 | 20.06 | 33.00 | H |

**LTE Band 25_1.4MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1850.70 | -12.77 | -29.30 | 8.10 | 24.63 | 33.00 | H |
| 1882.50 | -12.69 | -29.40 | 8.10 | 24.81 | 33.00 | H |
| 1914.30 | -12.62 | -29.30 | 8.10 | 24.78 | 33.00 | H |

**LTE Band 25_3MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1851.50 | -12.67 | -29.30 | 8.10 | 24.73 | 33.00 | H |
| 1882.50 | -13.01 | -29.40 | 8.10 | 24.49 | 33.00 | H |
| 1913.50 | -12.33 | -29.30 | 8.10 | 25.07 | 33.00 | H |

**LTE Band 25_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1852.50 | -13.95 | -29.30 | 8.10 | 23.45 | 33.00 | H |
| 1882.50 | -13.83 | -29.40 | 8.10 | 23.67 | 33.00 | H |
| 1912.50 | -13.30 | -29.30 | 8.10 | 24.10 | 33.00 | H |

**LTE Band 25_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1855.00 | -15.38 | -29.30 | 8.10 | 22.02 | 33.00 | H |
| 1882.00 | -15.42 | -29.40 | 8.10 | 22.08 | 33.00 | H |
| 1910.00 | -15.77 | -29.30 | 8.10 | 21.63 | 33.00 | H |

**LTE Band 25_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1857.50 | -16.18 | -29.30 | 8.10 | 21.22 | 33.00 | H |
| 1882.50 | -15.78 | -29.40 | 8.10 | 21.72 | 33.00 | H |
| 1907.50 | -15.70 | -29.30 | 8.10 | 21.70 | 33.00 | H |

**LTE Band 25_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1860.00 | -17.23 | -29.30 | 8.10 | 20.17 | 33.00 | H |
| 1882.50 | -17.10 | -29.40 | 8.10 | 20.40 | 33.00 | H |
| 1905.00 | -17.37 | -29.30 | 8.10 | 20.03 | 33.00 | H |

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

**Limits:** ≤38.45dBm (7W)

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

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 824.70 | -11.27 | -33.60 | -0.79 | 2.15 | 19.39 | 38.45 | H |
| 836.50 | -10.83 | -33.50 | -0.74 | 2.15 | 19.78 | 38.45 | H |
| 848.30 | -11.03 | -33.50 | -0.73 | 2.15 | 19.59 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_3MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 825.50 | -11.20 | -33.60 | -0.79 | 2.15 | 19.46 | 38.45 | H |
| 836.50 | -10.73 | -33.50 | -0.74 | 2.15 | 19.88 | 38.45 | H |
| 847.50 | -11.04 | -33.50 | -0.73 | 2.15 | 19.58 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 826.50 | -11.36 | -33.60 | -0.79 | 2.15 | 19.30 | 38.45 | H |
| 836.50 | -10.88 | -33.50 | -0.74 | 2.15 | 19.73 | 38.45 | H |
| 846.50 | -10.97 | -33.50 | -0.73 | 2.15 | 19.65 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 829.00 | -10.75 | -33.60 | -0.79 | 2.15 | 19.91 | 38.45 | H |
| 836.50 | -10.68 | -33.50 | -0.74 | 2.15 | 19.93 | 38.45 | H |
| 844.00 | -10.96 | -33.50 | -0.73 | 2.15 | 19.66 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 831.50 | -11.31 | -33.60 | -0.79 | 2.15 | 19.35 | 38.45 | H |
| 836.50 | -11.39 | -33.50 | -0.74 | 2.15 | 19.22 | 38.45 | H |
| 841.50 | -11.47 | -33.50 | -0.73 | 2.15 | 19.15 | 38.45 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 824.70 | -11.26 | -33.60 | -0.79 | 2.15 | 19.40 | 38.45 | H |
| 836.50 | -11.02 | -33.50 | -0.74 | 2.15 | 19.59 | 38.45 | H |
| 848.30 | -11.57 | -33.50 | -0.73 | 2.15 | 19.05 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_3MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 825.50 | -11.31 | -33.60 | -0.79 | 2.15 | 19.35 | 38.45 | H |
| 836.50 | -10.91 | -33.50 | -0.74 | 2.15 | 19.70 | 38.45 | H |
| 847.50 | -11.31 | -33.50 | -0.73 | 2.15 | 19.31 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 826.50 | -11.24 | -33.60 | -0.79 | 2.15 | 19.42 | 38.45 | H |
| 836.50 | -11.06 | -33.50 | -0.74 | 2.15 | 19.55 | 38.45 | H |
| 846.50 | -11.41 | -33.50 | -0.73 | 2.15 | 19.21 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 829.00 | -11.09 | -33.60 | -0.79 | 2.15 | 19.57 | 38.45 | H |
| 836.50 | -10.90 | -33.50 | -0.74 | 2.15 | 19.71 | 38.45 | H |
| 844.00 | -10.89 | -33.50 | -0.73 | 2.15 | 19.73 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 831.50 | -11.75 | -33.60 | -0.79 | 2.15 | 18.91 | 38.45 | H |
| 836.50 | -11.51 | -33.50 | -0.74 | 2.15 | 19.10 | 38.45 | H |
| 841.50 | -11.33 | -33.50 | -0.73 | 2.15 | 19.29 | 38.45 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 824.70 | -11.81 | -33.60 | -0.79 | 2.15 | 18.85 | 38.45 | H |
| 836.50 | -11.26 | -33.50 | -0.74 | 2.15 | 19.35 | 38.45 | H |
| 848.30 | -11.44 | -33.50 | -0.73 | 2.15 | 19.18 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_3MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 825.50 | -11.47 | -33.60 | -0.79 | 2.15 | 19.19 | 38.45 | H |
| 836.50 | -11.00 | -33.50 | -0.74 | 2.15 | 19.61 | 38.45 | H |
| 847.50 | -11.45 | -33.50 | -0.73 | 2.15 | 19.17 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 826.50 | -11.29 | -33.60 | -0.79 | 2.15 | 19.37 | 38.45 | H |
| 836.50 | -11.34 | -33.50 | -0.74 | 2.15 | 19.27 | 38.45 | H |
| 846.50 | -11.54 | -33.50 | -0.73 | 2.15 | 19.08 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 829.00 | -11.25 | -33.60 | -0.79 | 2.15 | 19.41 | 38.45 | H |
| 836.50 | -10.89 | -33.50 | -0.74 | 2.15 | 19.72 | 38.45 | H |
| 844.00 | -10.93 | -33.50 | -0.73 | 2.15 | 19.69 | 38.45 | H |

**LTE Band 26(824MHz-849MHz)_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 831.50 | -11.86 | -33.60 | -0.79 | 2.15 | 18.80 | 38.45 | H |
| 836.50 | -11.64 | -33.50 | -0.74 | 2.15 | 18.97 | 38.45 | H |
| 841.50 | -11.46 | -33.50 | -0.73 | 2.15 | 19.16 | 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) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 814.70 | -11.14 | -33.70 | -0.80 | 2.15 | 19.61 | 50.00 | H |
| 819.00 | -11.32 | -33.60 | -0.75 | 2.15 | 19.38 | 50.00 | H |
| 823.30 | -11.83 | -33.60 | -0.79 | 2.15 | 18.83 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_3MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 815.50 | -11.21 | -33.70 | -0.80 | 2.15 | 19.54 | 50.00 | H |
| 819.00 | -11.28 | -33.60 | -0.75 | 2.15 | 19.42 | 50.00 | H |
| 822.50 | -11.70 | -33.60 | -0.79 | 2.15 | 18.96 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 816.50 | -11.13 | -33.70 | -0.80 | 2.15 | 19.62 | 50.00 | H |
| 819.00 | -11.24 | -33.60 | -0.75 | 2.15 | 19.46 | 50.00 | H |
| 821.50 | -11.27 | -33.60 | -0.79 | 2.15 | 19.39 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 819.00 | -11.60 | -33.60 | -0.80 | 2.15 | 19.05 | 50.00 | H |
| 819.00 | -11.65 | -33.60 | -0.75 | 2.15 | 19.05 | 50.00 | H |
| 819.00 | -11.61 | -33.60 | -0.79 | 2.15 | 19.05 | 50.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 814.70 | -11.96 | -33.70 | -0.80 | 2.15 | 18.79 | 50.00 | H |
| 819.00 | -11.30 | -33.60 | -0.75 | 2.15 | 19.40 | 50.00 | H |
| 823.30 | -11.19 | -33.60 | -0.79 | 2.15 | 19.47 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_3MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 815.50 | -11.94 | -33.70 | -0.80 | 2.15 | 18.81 | 50.00 | H |
| 819.00 | -11.33 | -33.60 | -0.75 | 2.15 | 19.37 | 50.00 | H |
| 822.50 | -11.35 | -33.60 | -0.79 | 2.15 | 19.31 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 816.50 | -11.48 | -33.70 | -0.80 | 2.15 | 19.27 | 50.00 | H |
| 819.00 | -11.35 | -33.60 | -0.75 | 2.15 | 19.35 | 50.00 | H |
| 821.50 | -11.15 | -33.60 | -0.79 | 2.15 | 19.51 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 819.00 | -11.74 | -33.60 | -0.80 | 2.15 | 18.91 | 50.00 | H |
| 819.00 | -11.79 | -33.60 | -0.75 | 2.15 | 18.91 | 50.00 | H |
| 819.00 | -11.75 | -33.60 | -0.79 | 2.15 | 18.91 | 50.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 814.70 | -12.14 | -33.70 | -0.80 | 2.15 | 18.61 | 50.00 | H |
| 819.00 | -11.39 | -33.60 | -0.75 | 2.15 | 19.31 | 50.00 | H |
| 823.30 | -11.16 | -33.60 | -0.79 | 2.15 | 19.50 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_3MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 815.50 | -12.06 | -33.70 | -0.80 | 2.15 | 18.69 | 50.00 | H |
| 819.00 | -11.48 | -33.60 | -0.75 | 2.15 | 19.22 | 50.00 | H |
| 822.50 | -11.17 | -33.60 | -0.79 | 2.15 | 19.49 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 816.50 | -11.55 | -33.70 | -0.80 | 2.15 | 19.20 | 50.00 | H |
| 819.00 | -11.43 | -33.60 | -0.75 | 2.15 | 19.27 | 50.00 | H |
| 821.50 | -11.17 | -33.60 | -0.79 | 2.15 | 19.49 | 50.00 | H |

**LTE Band 26(814MHz-824MHz)_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|---|
| 819.00 | -11.76 | -33.60 | -0.80 | 2.15 | 18.89 | 50.00 | H |
| 819.00 | -11.81 | -33.60 | -0.75 | 2.15 | 18.89 | 50.00 | H |
| 819.00 | -11.77 | -33.60 | -0.79 | 2.15 | 18.89 | 50.00 | H |

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

**Limits:** ≤33dBm (2W)

**LTE Band 41_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2498.50 | -19.71 | -28.70 | 10.70 | 19.69 | 33.00 | H |
| 2593.00 | -20.01 | -28.60 | 10.70 | 19.29 | 33.00 | H |
| 2687.50 | -20.02 | -28.50 | 10.70 | 19.18 | 33.00 | H |

**LTE Band 41_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2501.00 | -19.98 | -28.70 | 10.70 | 19.42 | 33.00 | H |
| 2593.00 | -19.67 | -28.60 | 10.70 | 19.63 | 33.00 | H |
| 2685.00 | -19.31 | -28.50 | 10.70 | 19.89 | 33.00 | H |

**LTE Band 41_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2503.50 | -19.37 | -28.70 | 10.70 | 20.03 | 33.00 | H |
| 2593.00 | -19.89 | -28.60 | 10.70 | 19.41 | 33.00 | H |
| 2682.50 | -19.89 | -28.50 | 10.70 | 19.31 | 33.00 | H |

**LTE Band 41_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2506.00 | -19.74 | -28.70 | 10.70 | 19.66 | 33.00 | H |
| 2593.00 | -19.90 | -28.60 | 10.70 | 19.40 | 33.00 | H |
| 2680.00 | -19.52 | -28.50 | 10.70 | 19.68 | 33.00 | H |

**LTE Band 41_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2498.50 | -19.16 | -28.70 | 10.70 | 20.24 | 33.00 | H |
| 2593.00 | -19.58 | -28.60 | 10.70 | 19.72 | 33.00 | H |
| 2687.50 | -19.78 | -28.50 | 10.70 | 19.42 | 33.00 | H |

**LTE Band 41_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2501.00 | -19.43 | -28.70 | 10.70 | 19.97 | 33.00 | H |
| 2593.00 | -20.12 | -28.60 | 10.70 | 19.18 | 33.00 | H |
| 2685.00 | -19.61 | -28.50 | 10.70 | 19.59 | 33.00 | H |

**LTE Band 41_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2503.50 | -19.52 | -28.70 | 10.70 | 19.88 | 33.00 | H |
| 2593.00 | -19.38 | -28.60 | 10.70 | 19.92 | 33.00 | H |
| 2682.50 | -19.37 | -28.50 | 10.70 | 19.83 | 33.00 | H |

**LTE Band 41_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2506.00 | -20.11 | -28.70 | 10.70 | 19.29 | 33.00 | H |
| 2593.00 | -19.94 | -28.60 | 10.70 | 19.36 | 33.00 | H |
| 2680.00 | -20.03 | -28.50 | 10.70 | 19.17 | 33.00 | H |

**LTE Band 41_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2498.50 | -19.04 | -28.70 | 10.70 | 20.36 | 33.00 | H |
| 2593.00 | -19.10 | -28.60 | 10.70 | 20.20 | 33.00 | H |
| 2687.50 | -19.51 | -28.50 | 10.70 | 19.69 | 33.00 | H |

**LTE Band 41_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2501.00 | -19.70 | -28.70 | 10.70 | 19.70 | 33.00 | H |
| 2593.00 | -19.30 | -28.60 | 10.70 | 20.00 | 33.00 | H |
| 2685.00 | -19.22 | -28.50 | 10.70 | 19.98 | 33.00 | H |

**LTE Band 41_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2503.50 | -19.72 | -28.70 | 10.70 | 19.68 | 33.00 | H |
| 2593.00 | -19.35 | -28.60 | 10.70 | 19.95 | 33.00 | H |
| 2682.50 | -19.60 | -28.50 | 10.70 | 19.60 | 33.00 | H |

**LTE Band 41_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2506.00 | -19.42 | -28.70 | 10.70 | 19.98 | 33.00 | H |
| 2593.00 | -20.14 | -28.60 | 10.70 | 19.16 | 33.00 | H |
| 2680.00 | -19.67 | -28.50 | 10.70 | 19.53 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)- EIRP 27.50(k)(3)**

**Limits:** ≤33dBm (2W)

**LTE Band 42(3450MHz-3550MHz)_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3452.50 | -19.47 | -28.70 | 10.70 | 19.93 | 33.00 | H |
| 3500.00 | -19.59 | -28.60 | 10.70 | 19.71 | 33.00 | H |
| 3547.50 | -19.72 | -28.50 | 10.70 | 19.48 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3455.00 | -19.94 | -28.70 | 10.70 | 19.46 | 33.00 | H |
| 3500.00 | -19.64 | -28.60 | 10.70 | 19.66 | 33.00 | H |
| 3545.00 | -19.22 | -28.50 | 10.70 | 19.98 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3457.50 | -19.44 | -28.70 | 10.70 | 19.96 | 33.00 | H |
| 3500.00 | -19.92 | -28.60 | 10.70 | 19.38 | 33.00 | H |
| 3542.50 | -19.83 | -28.50 | 10.70 | 19.37 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3460.00 | -19.61 | -28.70 | 10.70 | 19.79 | 33.00 | H |
| 3500.00 | -19.77 | -28.60 | 10.70 | 19.53 | 33.00 | H |
| 3540.00 | -19.84 | -28.50 | 10.70 | 19.36 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3452.50 | -19.60 | -28.70 | 10.70 | 19.80 | 33.00 | H |
| 3500.00 | -19.64 | -28.60 | 10.70 | 19.66 | 33.00 | H |
| 3547.50 | -19.75 | -28.50 | 10.70 | 19.45 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3455.00 | -19.87 | -28.70 | 10.70 | 19.53 | 33.00 | H |
| 3500.00 | -19.73 | -28.60 | 10.70 | 19.57 | 33.00 | H |
| 3545.00 | -19.28 | -28.50 | 10.70 | 19.92 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3457.50 | -19.50 | -28.70 | 10.70 | 19.90 | 33.00 | H |
| 3500.00 | -19.95 | -28.60 | 10.70 | 19.35 | 33.00 | H |
| 3542.50 | -19.90 | -28.50 | 10.70 | 19.30 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3460.00 | -19.65 | -28.70 | 10.70 | 19.75 | 33.00 | H |
| 3500.00 | -19.84 | -28.60 | 10.70 | 19.46 | 33.00 | H |
| 3540.00 | -19.87 | -28.50 | 10.70 | 19.33 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3452.50 | -19.74 | -28.70 | 10.70 | 19.66 | 33.00 | H |
| 3500.00 | -19.71 | -28.60 | 10.70 | 19.59 | 33.00 | H |
| 3547.50 | -19.87 | -28.50 | 10.70 | 19.33 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3455.00 | -19.93 | -28.70 | 10.70 | 19.47 | 33.00 | H |
| 3500.00 | -19.68 | -28.60 | 10.70 | 19.62 | 33.00 | H |
| 3545.00 | -19.48 | -28.50 | 10.70 | 19.72 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3457.50 | -19.67 | -28.70 | 10.70 | 19.73 | 33.00 | H |
| 3500.00 | -20.00 | -28.60 | 10.70 | 19.30 | 33.00 | H |
| 3542.50 | -19.95 | -28.50 | 10.70 | 19.25 | 33.00 | H |

**LTE Band 42(3450MHz-3550MHz)_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3460.00 | -19.74 | -28.70 | 10.70 | 19.66 | 33.00 | H |
| 3500.00 | -19.80 | -28.60 | 10.70 | 19.50 | 33.00 | H |
| 3540.00 | -19.94 | -28.50 | 10.70 | 19.26 | 33.00 | H |

**LTE Band 48- Part 96.41(b)**

**Limits:** ≤23dBm

**LTE Band 48_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3552.50 | -19.41 | -28.70 | 10.70 | 19.99 | 23.00 | H |
| 3625.00 | -19.86 | -28.60 | 10.70 | 19.44 | 23.00 | H |
| 3697.50 | -19.87 | -28.50 | 10.70 | 19.33 | 23.00 | H |

**LTE Band 48_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3555.00 | -19.93 | -28.70 | 10.70 | 19.47 | 23.00 | H |
| 3625.00 | -19.66 | -28.60 | 10.70 | 19.64 | 23.00 | H |
| 3695.00 | -19.27 | -28.50 | 10.70 | 19.93 | 23.00 | H |

**LTE Band 48_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3557.50 | -19.48 | -28.70 | 10.70 | 19.92 | 23.00 | H |
| 3625.00 | -19.90 | -28.60 | 10.70 | 19.40 | 23.00 | H |
| 3692.50 | -19.78 | -28.50 | 10.70 | 19.42 | 23.00 | H |

**LTE Band 48_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3560.00 | -19.67 | -28.70 | 10.70 | 19.73 | 23.00 | H |
| 3625.00 | -19.73 | -28.60 | 10.70 | 19.57 | 23.00 | H |
| 3690.00 | -19.66 | -28.50 | 10.70 | 19.54 | 23.00 | H |

**LTE Band 48_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3552.50 | -19.44 | -28.70 | 10.70 | 19.96 | 23.00 | H |
| 3625.00 | -19.94 | -28.60 | 10.70 | 19.36 | 23.00 | H |
| 3697.50 | -19.90 | -28.50 | 10.70 | 19.30 | 23.00 | H |

**LTE Band 48_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3555.00 | -19.97 | -28.70 | 10.70 | 19.43 | 23.00 | H |
| 3625.00 | -19.69 | -28.60 | 10.70 | 19.61 | 23.00 | H |
| 3695.00 | -19.51 | -28.50 | 10.70 | 19.69 | 23.00 | H |

**LTE Band 48_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3557.50 | -19.52 | -28.70 | 10.70 | 19.88 | 23.00 | H |
| 3625.00 | -19.87 | -28.60 | 10.70 | 19.43 | 23.00 | H |
| 3692.50 | -19.84 | -28.50 | 10.70 | 19.36 | 23.00 | H |

**LTE Band 48_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3560.00 | -19.74 | -28.70 | 10.70 | 19.66 | 23.00 | H |
| 3625.00 | -19.75 | -28.60 | 10.70 | 19.55 | 23.00 | H |
| 3690.00 | -19.72 | -28.50 | 10.70 | 19.48 | 23.00 | H |

**LTE Band 48_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3552.50 | -19.48 | -28.70 | 10.70 | 19.92 | 23.00 | H |
| 3625.00 | -19.90 | -28.60 | 10.70 | 19.40 | 23.00 | H |
| 3697.50 | -19.88 | -28.50 | 10.70 | 19.32 | 23.00 | H |

**LTE Band 48_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3555.00 | -19.95 | -28.70 | 10.70 | 19.45 | 23.00 | H |
| 3625.00 | -19.65 | -28.60 | 10.70 | 19.65 | 23.00 | H |
| 3695.00 | -19.49 | -28.50 | 10.70 | 19.71 | 23.00 | H |

**LTE Band 48_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3557.50 | -19.59 | -28.70 | 10.70 | 19.81 | 23.00 | H |
| 3625.00 | -19.62 | -28.60 | 10.70 | 19.68 | 23.00 | H |
| 3692.50 | -19.34 | -28.50 | 10.70 | 19.86 | 23.00 | H |

**LTE Band 48_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3560.00 | -19.82 | -28.70 | 10.70 | 19.58 | 23.00 | H |
| 3625.00 | -19.78 | -28.60 | 10.70 | 19.52 | 23.00 | H |
| 3690.00 | -19.84 | -28.50 | 10.70 | 19.36 | 23.00 | H |

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

**Limits:** ≤30dBm (1W)

**LTE Band 66_1.4MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1710.70 | -12.59 | -29.60 | 8.10 | 25.11 | 30.00 | H |
| 1745.00 | -13.19 | -29.50 | 8.10 | 24.41 | 30.00 | H |
| 1779.30 | -13.14 | -29.50 | 8.10 | 24.46 | 30.00 | H |

**LTE Band 66_3MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1711.50 | -14.83 | -29.60 | 8.10 | 22.87 | 30.00 | H |
| 1745.00 | -16.15 | -29.50 | 8.10 | 21.45 | 30.00 | H |
| 1778.50 | -13.91 | -29.50 | 8.10 | 23.69 | 30.00 | H |

**LTE Band 66_5MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1712.50 | -15.77 | -29.60 | 8.10 | 21.93 | 30.00 | H |
| 1745.00 | -16.89 | -29.50 | 8.10 | 20.71 | 30.00 | H |
| 1777.50 | -15.54 | -29.50 | 8.10 | 22.06 | 30.00 | H |

**LTE Band 66_10MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1715.00 | -17.72 | -29.60 | 8.10 | 19.98 | 30.00 | H |
| 1745.00 | -17.54 | -29.50 | 8.10 | 20.06 | 30.00 | H |
| 1775.00 | -16.57 | -29.50 | 8.10 | 21.03 | 30.00 | H |

**LTE Band 66_15MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1717.50 | -17.76 | -29.60 | 8.10 | 19.94 | 30.00 | H |
| 1745.00 | -18.18 | -29.50 | 8.10 | 19.42 | 30.00 | H |
| 1772.53 | -17.27 | -29.50 | 8.10 | 20.33 | 30.00 | H |

**LTE Band 66_20MHz_QPSK**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1720.00 | -18.49 | -29.60 | 8.10 | 19.21 | 30.00 | H |
| 1745.00 | -18.29 | -29.50 | 8.10 | 19.31 | 30.00 | H |
| 1770.00 | -17.82 | -29.50 | 8.10 | 19.78 | 30.00 | H |

**LTE Band 66_1.4MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1710.70 | -13.38 | -29.60 | 8.10 | 24.32 | 30.00 | H |
| 1745.00 | -13.11 | -29.50 | 8.10 | 24.49 | 30.00 | H |
| 1779.30 | -12.88 | -29.50 | 8.10 | 24.72 | 30.00 | H |

**LTE Band 66_3MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1711.50 | -14.41 | -29.60 | 8.10 | 23.29 | 30.00 | H |
| 1745.00 | -15.56 | -29.50 | 8.10 | 22.04 | 30.00 | H |
| 1778.50 | -14.28 | -29.50 | 8.10 | 23.32 | 30.00 | H |

**LTE Band 66_5MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1712.50 | -15.43 | -29.60 | 8.10 | 22.27 | 30.00 | H |
| 1745.00 | -16.33 | -29.50 | 8.10 | 21.27 | 30.00 | H |
| 1777.50 | -14.89 | -29.50 | 8.10 | 22.71 | 30.00 | H |

**LTE Band 66_10MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1715.00 | -17.58 | -29.60 | 8.10 | 20.12 | 30.00 | H |
| 1745.00 | -17.20 | -29.50 | 8.10 | 20.40 | 30.00 | H |
| 1775.00 | -17.04 | -29.50 | 8.10 | 20.56 | 30.00 | H |

**LTE Band 66_15MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1717.50 | -17.73 | -29.60 | 8.10 | 19.97 | 30.00 | H |
| 1745.00 | -17.75 | -29.50 | 8.10 | 19.85 | 30.00 | H |
| 1772.53 | -16.84 | -29.50 | 8.10 | 20.76 | 30.00 | H |

**LTE Band 66_20MHz_16QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1720.00 | -18.24 | -29.60 | 8.10 | 19.46 | 30.00 | H |
| 1745.00 | -18.18 | -29.50 | 8.10 | 19.42 | 30.00 | H |
| 1770.00 | -17.46 | -29.50 | 8.10 | 20.14 | 30.00 | H |

**LTE Band 66_1.4MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1710.70 | -13.23 | -29.60 | 8.10 | 24.47 | 30.00 | H |
| 1745.00 | -13.44 | -29.50 | 8.10 | 24.16 | 30.00 | H |
| 1779.30 | -12.48 | -29.50 | 8.10 | 25.12 | 30.00 | H |

**LTE Band 66_3MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1711.50 | -14.57 | -29.60 | 8.10 | 23.13 | 30.00 | H |
| 1745.00 | -14.92 | -29.50 | 8.10 | 22.68 | 30.00 | H |
| 1778.50 | -13.88 | -29.50 | 8.10 | 23.72 | 30.00 | H |

**LTE Band 66_5MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1712.50 | -15.35 | -29.60 | 8.10 | 22.35 | 30.00 | H |
| 1745.00 | -15.91 | -29.50 | 8.10 | 21.69 | 30.00 | H |
| 1777.50 | -15.11 | -29.50 | 8.10 | 22.49 | 30.00 | H |

**LTE Band 66_10MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1715.00 | -17.55 | -29.60 | 8.10 | 20.15 | 30.00 | H |
| 1745.00 | -18.04 | -29.50 | 8.10 | 19.56 | 30.00 | H |
| 1775.00 | -16.44 | -29.50 | 8.10 | 21.16 | 30.00 | H |

**LTE Band 66_15MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1717.50 | -18.45 | -29.60 | 8.10 | 19.25 | 30.00 | H |
| 1745.00 | -17.37 | -29.50 | 8.10 | 20.23 | 30.00 | H |
| 1772.53 | -16.96 | -29.50 | 8.10 | 20.64 | 30.00 | H |

**LTE Band 66_20MHz_64QAM**

| Frequency(MHz) | $P_{Mea}$(dBm) | $P_{cl}$(dB)+ $P_{Ag}$(dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1720.00 | -18.44 | -29.60 | 8.10 | 19.26 | 30.00 | H |
| 1745.00 | -18.14 | -29.50 | 8.10 | 19.46 | 30.00 | H |
| 1770.00 | -18.25 | -29.50 | 8.10 | 19.35 | 30.00 | 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 = 2.87dB(30MHz-3GHz)/3.35dB(3GHz-18GHz), 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, 27.50, 27.53, 90.691, 96.41.

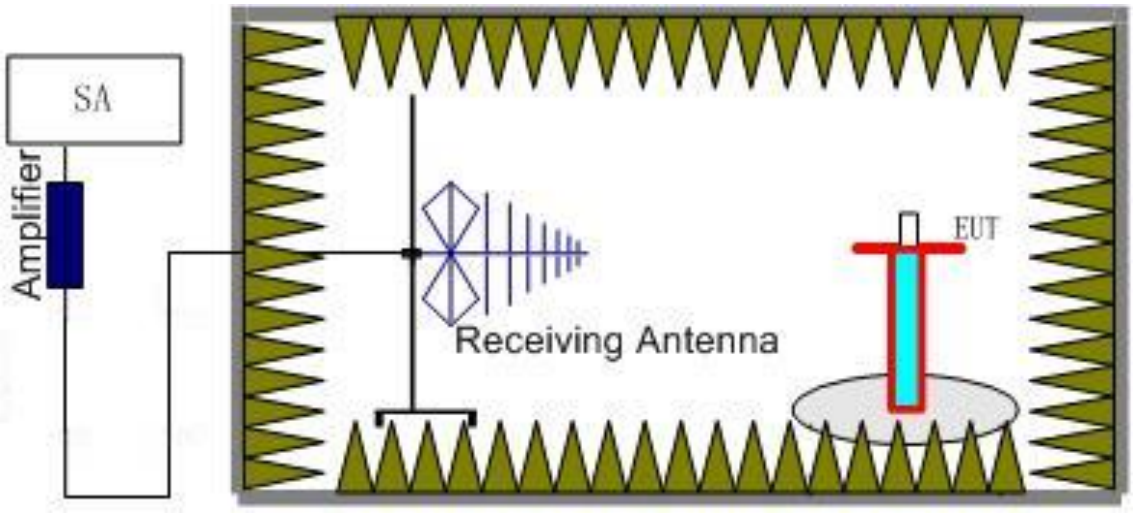
**A.2.1 Measurement Method**

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

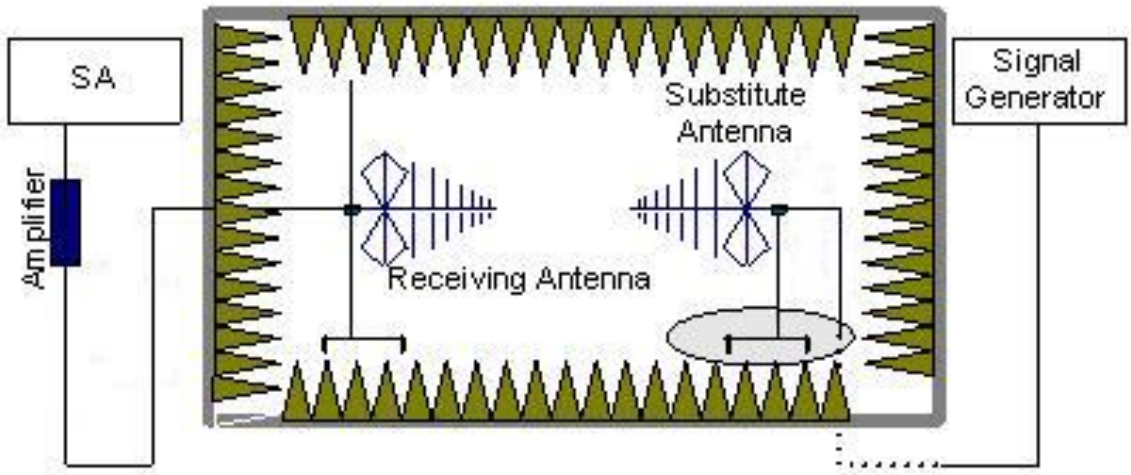
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.50, 27.53, 90.691, 96.41. The spectrum was scanned with the mobile station transmitting 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 (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.




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

4. The Path loss ($P_{pl}$) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain(dBi) ($G_a$) should be recorded after test.
   An amplifier should be connected in for the test.
   The Path loss ($P_{pl}$) is the summation of the cable loss and the gain of the amplifier.
   The measurement results are obtained as described below:
   Power (EIRP)=$P_{Mea}$ - $P_{pl}$ + $G_a$
5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dB.

**A.2.2 Measurement Results**

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

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5000.80 | -66.65 | 1.30 | 12.50 | -55.45 | -25.00 | H |
| 7500.50 | -64.29 | 1.90 | 11.30 | -54.89 | -25.00 | H |
| 9836.90 | -61.96 | 2.30 | 11.20 | -53.06 | -25.00 | H |
| 11632.10 | -58.51 | 2.60 | 11.00 | -50.11 | -25.00 | V |
| 14783.60 | -56.06 | 2.50 | 11.20 | -47.36 | -25.00 | H |
| 17901.00 | -55.39 | 3.60 | 12.80 | -46.19 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5065.60 | -66.60 | 1.20 | 12.50 | -55.30 | -25.00 | H |
| 7598.40 | -61.91 | 1.80 | 11.30 | -52.41 | -25.00 | H |
| 9779.70 | -62.81 | 2.30 | 11.20 | -53.91 | -25.00 | V |
| 11659.60 | -57.04 | 2.60 | 11.00 | -48.64 | -25.00 | V |
| 14833.10 | -55.48 | 2.70 | 11.20 | -46.98 | -25.00 | H |
| 17948.30 | -55.37 | 3.20 | 12.80 | -45.77 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5130.80 | -69.28 | 1.30 | 12.50 | -58.08 | -25.00 | H |
| 7262.90 | -66.11 | 1.90 | 12.00 | -56.01 | -25.00 | V |
| 11634.30 | -58.26 | 2.60 | 11.00 | -49.86 | -25.00 | V |
| 13410.80 | -61.02 | 2.30 | 13.30 | -50.02 | -25.00 | V |
| 14759.40 | -56.20 | 2.50 | 11.20 | -47.50 | -25.00 | V |
| 17950.50 | -56.12 | 3.20 | 12.80 | -46.52 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5000.40 | -66.55 | 1.30 | 12.50 | -55.35 | -25.00 | H |
| 7500.50 | -63.25 | 1.90 | 11.30 | -53.85 | -25.00 | V |
| 10229.60 | -61.87 | 2.20 | 11.30 | -52.77 | -25.00 | V |
| 11660.70 | -58.80 | 2.60 | 11.00 | -50.40 | -25.00 | V |
| 14759.40 | -56.68 | 2.50 | 11.20 | -47.98 | -25.00 | H |
| 17950.50 | -56.18 | 3.20 | 12.80 | -46.58 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5065.60 | -68.85 | 1.20 | 12.50 | -57.55 | -25.00 | H |
| 7598.40 | -61.78 | 1.80 | 11.30 | -52.28 | -25.00 | H |
| 10246.10 | -62.35 | 2.20 | 11.30 | -53.25 | -25.00 | V |
| 11670.60 | -58.78 | 2.60 | 11.00 | -50.38 | -25.00 | V |
| 14764.90 | -56.55 | 2.50 | 11.20 | -47.85 | -25.00 | H |
| 17998.90 | -55.76 | 3.20 | 12.80 | -46.16 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5130.80 | -68.53 | 1.30 | 12.50 | -57.33 | -25.00 | H |
| 7007.70 | -66.76 | 1.80 | 12.00 | -56.56 | -25.00 | H |
| 8920.60 | -65.65 | 1.90 | 12.00 | -55.55 | -25.00 | H |
| 11700.30 | -58.30 | 2.60 | 11.00 | -49.90 | -25.00 | V |
| 14761.60 | -56.02 | 2.50 | 11.20 | -47.32 | -25.00 | H |
| 17946.10 | -56.17 | 3.20 | 12.80 | -46.57 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5000.80 | -66.49 | 1.30 | 12.50 | -55.29 | -25.00 | H |
| 7500.50 | -62.20 | 1.90 | 11.30 | -52.80 | -25.00 | V |
| 9297.90 | -63.94 | 2.00 | 11.60 | -54.34 | -25.00 | H |
| 11365.90 | -58.63 | 2.50 | 10.50 | -50.63 | -25.00 | V |
| 15087.20 | -57.36 | 2.40 | 12.40 | -47.36 | -25.00 | H |
| 17950.50 | -55.81 | 3.20 | 12.80 | -46.21 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5066.00 | -67.48 | 1.20 | 12.50 | -56.18 | -25.00 | H |
| 7598.40 | -59.65 | 1.80 | 11.30 | -50.15 | -25.00 | V |
| 10237.30 | -61.59 | 2.20 | 11.30 | -52.49 | -25.00 | V |
| 11656.30 | -58.83 | 2.60 | 11.00 | -50.43 | -25.00 | V |
| 14753.90 | -56.59 | 2.50 | 11.20 | -47.89 | -25.00 | H |
| 17997.80 | -56.09 | 3.20 | 12.80 | -46.49 | -25.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5130.80 | -67.21 | 1.30 | 12.50 | -56.01 | -25.00 | H |
| 7695.20 | -63.76 | 1.80 | 11.30 | -54.26 | -25.00 | V |
| 10262.60 | -62.49 | 2.10 | 11.30 | -53.29 | -25.00 | V |
| 11649.70 | -58.83 | 2.60 | 11.00 | -50.43 | -25.00 | V |
| 14920.00 | -56.57 | 2.70 | 11.20 | -48.07 | -25.00 | H |
| 17998.90 | -55.79 | 3.20 | 12.80 | -46.19 | -25.00 | H |

**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1188.00 | -59.39 | 0.60 | 6.00 | -53.99 | -13.00 | V |
| 1398.40 | -46.34 | 0.70 | 6.00 | -41.04 | -13.00 | V |
| 2016.00 | -64.43 | 0.80 | 9.80 | -55.43 | -13.00 | H |
| 2830.80 | -61.11 | 1.00 | 10.70 | -51.41 | -13.00 | V |
| 3918.00 | -73.54 | 1.30 | 12.20 | -62.64 | -13.00 | H |
| 5013.20 | -71.38 | 1.30 | 12.50 | -60.18 | -13.00 | H |

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1187.60 | -59.24 | 0.60 | 6.00 | -53.84 | -13.00 | V |
| 1414.00 | -47.67 | 0.70 | 6.00 | -42.37 | -13.00 | V |
| 1710.40 | -66.39 | 0.80 | 8.10 | -59.09 | -13.00 | V |
| 2458.80 | -62.05 | 0.90 | 9.80 | -53.15 | -13.00 | H |
| 2794.00 | -61.23 | 1.00 | 10.70 | -51.53 | -13.00 | V |
| 4885.20 | -72.10 | 1.40 | 12.50 | -61.00 | -13.00 | H |

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1429.60 | -44.63 | 0.70 | 6.00 | -39.33 | -13.00 | V |
| 2005.20 | -64.51 | 0.80 | 9.80 | -55.51 | -13.00 | H |
| 2797.60 | -61.27 | 1.00 | 10.70 | -51.57 | -13.00 | V |
| 3104.40 | -73.29 | 1.00 | 11.50 | -62.79 | -13.00 | H |
| 3894.40 | -73.77 | 1.20 | 12.20 | -62.77 | -13.00 | H |
| 4975.60 | -71.60 | 1.30 | 12.50 | -60.40 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1188.00 | -59.78 | 0.60 | 6.00 | -54.38 | -13.00 | V |
| 1398.00 | -48.05 | 0.70 | 6.00 | -42.75 | -13.00 | V |
| 2047.20 | -64.75 | 0.80 | 9.80 | -55.75 | -13.00 | H |
| 2774.80 | -61.43 | 1.00 | 10.70 | -51.73 | -13.00 | H |
| 3372.80 | -73.08 | 1.10 | 11.50 | -62.68 | -13.00 | V |
| 5010.40 | -72.37 | 1.30 | 12.50 | -61.17 | -13.00 | H |

**LTE Band 12, 1.4MHz, 16QAM, Channel 23095**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1188.00 | -59.62 | 0.60 | 6.00 | -54.22 | -13.00 | V |
| 1414.00 | -47.15 | 0.70 | 6.00 | -41.85 | -13.00 | V |
| 2091.60 | -64.94 | 0.90 | 9.80 | -56.04 | -13.00 | H |
| 2813.20 | -61.13 | 1.00 | 10.70 | -51.43 | -13.00 | V |
| 3530.80 | -73.56 | 1.10 | 12.20 | -62.46 | -13.00 | H |
| 4758.40 | -72.07 | 1.30 | 12.50 | -60.87 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1429.60 | -44.15 | 0.70 | 6.00 | -38.85 | -13.00 | V |
| 2015.20 | -64.90 | 0.80 | 9.80 | -55.90 | -13.00 | H |
| 2773.60 | -61.39 | 1.00 | 10.70 | -51.69 | -13.00 | V |
| 3569.20 | -73.55 | 1.20 | 12.20 | -62.55 | -13.00 | H |
| 4543.60 | -72.88 | 1.30 | 12.50 | -61.68 | -13.00 | H |
| 5668.00 | -71.97 | 1.30 | 13.10 | -60.17 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1188.00 | -59.76 | 0.60 | 6.00 | -54.36 | -13.00 | V |
| 1398.40 | -48.19 | 0.70 | 6.00 | -42.89 | -13.00 | V |
| 2788.40 | -61.28 | 1.00 | 10.70 | -51.58 | -13.00 | V |
| 3429.60 | -74.10 | 1.20 | 11.50 | -63.80 | -13.00 | V |
| 4501.60 | -73.21 | 1.20 | 12.50 | -61.91 | -13.00 | H |
| 5856.40 | -72.12 | 1.40 | 13.10 | -60.42 | -13.00 | H |

**LTE Band 12, 1.4MHz, 64QAM, Channel 23095**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1188.00 | -60.00 | 0.60 | 6.00 | -54.60 | -13.00 | V |
| 1414.00 | -46.38 | 0.70 | 6.00 | -41.08 | -13.00 | H |
| 2326.00 | -62.49 | 0.90 | 9.80 | -53.59 | -13.00 | V |
| 2796.40 | -61.05 | 1.00 | 10.70 | -51.35 | -13.00 | V |
| 3834.00 | -73.64 | 1.20 | 12.20 | -62.64 | -13.00 | V |
| 4541.20 | -72.54 | 1.30 | 12.50 | -61.34 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1429.60 | -46.76 | 0.70 | 6.00 | -41.46 | -13.00 | V |
| 1923.60 | -63.78 | 0.80 | 8.10 | -56.48 | -13.00 | V |
| 2398.00 | -62.44 | 0.90 | 9.80 | -53.54 | -13.00 | H |
| 2797.20 | -61.20 | 1.00 | 10.70 | -51.50 | -13.00 | H |
| 3569.20 | -72.83 | 1.20 | 12.20 | -61.83 | -13.00 | H |
| 4910.40 | -71.61 | 1.40 | 12.50 | -60.51 | -13.00 | V |

**LTE Band 13, 5MHz, QPSK, Channel 23205**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1559.60 | -52.19 | 0.70 | 8.10 | -44.79 | -40.00 | V |
| 2306.00 | -63.12 | 0.90 | 9.80 | -54.22 | -13.00 | H |
| 2775.60 | -61.09 | 1.00 | 10.70 | -51.39 | -13.00 | V |
| 3404.00 | -73.57 | 1.20 | 11.50 | -63.27 | -13.00 | V |
| 4502.80 | -72.89 | 1.20 | 12.50 | -61.59 | -13.00 | V |
| 6089.20 | -71.39 | 1.60 | 13.10 | -59.89 | -13.00 | H |

**LTE Band 13, 5MHz, QPSK, Channel 23230**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1564.80 | -53.40 | 0.70 | 8.10 | -46.00 | -40.00 | V |
| 2003.60 | -64.62 | 0.80 | 9.80 | -55.62 | -13.00 | H |
| 2636.00 | -62.44 | 1.00 | 10.70 | -52.74 | -13.00 | V |
| 2910.00 | -61.36 | 1.00 | 10.70 | -51.66 | -13.00 | H |
| 3252.80 | -73.83 | 1.10 | 11.50 | -63.43 | -13.00 | H |
| 4813.20 | -71.69 | 1.30 | 12.50 | -60.49 | -13.00 | H |

**LTE Band 13, 5MHz, QPSK, Channel 23255**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1570.00 | -56.11 | 0.70 | 8.10 | -48.71 | -40.00 | V |
| 2270.80 | -62.76 | 0.90 | 9.80 | -53.86 | -13.00 | H |
| 2815.60 | -61.40 | 1.00 | 10.70 | -51.70 | -13.00 | V |
| 3215.20 | -73.97 | 1.10 | 11.50 | -63.57 | -13.00 | V |
| 4170.00 | -73.38 | 1.20 | 12.40 | -62.18 | -13.00 | H |
| 5670.00 | -72.39 | 1.30 | 13.10 | -60.59 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1559.60 | -55.53 | 0.70 | 8.10 | -48.13 | -40.00 | V |
| 1996.00 | -62.36 | 0.80 | 8.10 | -55.06 | -13.00 | H |
| 2865.20 | -61.36 | 1.00 | 10.70 | -51.66 | -13.00 | V |
| 3254.00 | -74.05 | 1.10 | 11.50 | -63.65 | -13.00 | V |
| 4424.00 | -72.51 | 1.30 | 12.40 | -61.41 | -13.00 | H |
| 6071.20 | -70.57 | 1.60 | 13.10 | -59.07 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1564.40 | -52.78 | 0.70 | 8.10 | -45.38 | -40.00 | V |
| 1994.00 | -63.39 | 0.80 | 8.10 | -56.09 | -13.00 | H |
| 2873.60 | -60.89 | 1.00 | 10.70 | -51.19 | -13.00 | H |
| 3565.20 | -74.12 | 1.20 | 12.20 | -63.12 | -13.00 | H |
| 4890.00 | -72.08 | 1.40 | 12.50 | -60.98 | -13.00 | V |
| 6077.60 | -70.40 | 1.60 | 13.10 | -58.90 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1569.60 | -55.98 | 0.70 | 8.10 | -48.58 | -40.00 | V |
| 2268.00 | -63.01 | 0.90 | 9.80 | -54.11 | -13.00 | V |
| 2787.60 | -60.85 | 1.00 | 10.70 | -51.15 | -13.00 | V |
| 3251.60 | -73.17 | 1.10 | 11.50 | -62.77 | -13.00 | V |
| 3912.80 | -73.24 | 1.30 | 12.20 | -62.34 | -13.00 | H |
| 4978.80 | -72.08 | 1.30 | 12.50 | -60.88 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1560.00 | -55.16 | 0.70 | 8.10 | -47.76 | -40.00 | V |
| 2042.00 | -65.28 | 0.80 | 9.80 | -56.28 | -13.00 | H |
| 2624.80 | -61.99 | 0.90 | 10.70 | -52.19 | -13.00 | H |
| 3468.80 | -73.37 | 1.10 | 11.50 | -62.97 | -13.00 | V |
| 4532.00 | -72.98 | 1.20 | 12.50 | -61.68 | -13.00 | H |
| 5604.00 | -72.35 | 1.30 | 13.10 | -60.55 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1565.20 | -52.49 | 0.70 | 8.10 | -45.09 | -40.00 | V |
| 2215.60 | -63.37 | 0.90 | 9.80 | -54.47 | -13.00 | V |
| 2787.20 | -60.83 | 1.00 | 10.70 | -51.13 | -13.00 | V |
| 3530.40 | -74.06 | 1.10 | 12.20 | -62.96 | -13.00 | H |
| 4427.60 | -73.14 | 1.30 | 12.40 | -62.04 | -13.00 | H |
| 5074.00 | -72.56 | 1.20 | 12.50 | -61.26 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1569.60 | -53.34 | 0.70 | 8.10 | -45.94 | -40.00 | V |
| 2012.80 | -64.48 | 0.80 | 9.80 | -55.48 | -13.00 | H |
| 2637.60 | -61.65 | 1.00 | 10.70 | -51.95 | -13.00 | H |
| 3419.20 | -74.06 | 1.20 | 11.50 | -63.76 | -13.00 | H |
| 3915.60 | -73.66 | 1.30 | 12.20 | -62.76 | -13.00 | H |
| 4823.60 | -72.43 | 1.30 | 12.50 | -61.23 | -13.00 | H |

**LTE Band 25, 1.4MHz, QPSK, Channel 26047**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2809.60 | -60.87 | 1.00 | 10.70 | -51.17 | -13.00 | V |
| 5550.80 | -65.26 | 1.40 | 13.10 | -53.56 | -13.00 | H |
| 7313.50 | -66.34 | 1.90 | 12.00 | -56.24 | -13.00 | H |
| 9251.70 | -60.40 | 2.10 | 11.60 | -50.90 | -13.00 | H |
| 11480.30 | -57.60 | 2.60 | 10.50 | -49.70 | -13.00 | V |
| 14774.80 | -56.51 | 2.50 | 11.20 | -47.81 | -13.00 | V |

**LTE Band 25, 1.4MHz, QPSK, Channel 26365**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2830.00 | -61.65 | 1.00 | 10.70 | -51.95 | -13.00 | V |
| 5640.80 | -65.36 | 1.30 | 13.10 | -53.56 | -13.00 | V |
| 9401.30 | -55.15 | 2.10 | 11.60 | -45.65 | -13.00 | H |
| 11517.70 | -58.47 | 2.60 | 11.00 | -50.07 | -13.00 | V |
| 14761.60 | -56.70 | 2.50 | 11.20 | -48.00 | -13.00 | H |
| 17948.30 | -56.35 | 3.20 | 12.80 | -46.75 | -13.00 | H |

**LTE Band 25, 1.4MHz, QPSK, Channel 26683**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2850.40 | -61.07 | 1.00 | 10.70 | -51.37 | -13.00 | H |
| 3824.40 | -73.44 | 1.20 | 12.20 | -62.44 | -13.00 | V |
| 4934.40 | -71.86 | 1.30 | 12.50 | -60.66 | -13.00 | V |
| 6295.20 | -70.89 | 1.60 | 13.10 | -59.39 | -13.00 | H |
| 8146.20 | -65.70 | 1.80 | 11.30 | -56.20 | -13.00 | V |
| 10232.90 | -61.99 | 2.20 | 11.30 | -52.89 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2801.60 | -60.81 | 1.00 | 10.70 | -51.11 | -13.00 | H |
| 3960.40 | -73.19 | 1.20 | 12.20 | -62.19 | -13.00 | H |
| 5550.80 | -63.03 | 1.40 | 13.10 | -51.33 | -13.00 | H |
| 9251.70 | -62.22 | 2.10 | 11.60 | -52.72 | -13.00 | V |
| 11700.30 | -58.79 | 2.60 | 11.00 | -50.39 | -13.00 | V |
| 14756.10 | -56.34 | 2.50 | 11.20 | -47.64 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2794.80 | -61.10 | 1.00 | 10.70 | -51.40 | -13.00 | H |
| 5641.20 | -58.89 | 1.30 | 13.10 | -47.09 | -13.00 | H |
| 9401.30 | -58.67 | 2.10 | 11.60 | -49.17 | -13.00 | H |
| 11680.50 | -58.67 | 2.60 | 11.00 | -50.27 | -13.00 | V |
| 14830.90 | -56.49 | 2.70 | 11.20 | -47.99 | -13.00 | H |
| 18000.00 | -49.34 | 3.20 | 6.20 | -46.34 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2967.60 | -61.22 | 1.00 | 10.70 | -51.52 | -13.00 | H |
| 3702.00 | -74.30 | 1.20 | 12.20 | -63.30 | -13.00 | H |
| 5731.20 | -68.72 | 1.50 | 13.10 | -57.12 | -13.00 | H |
| 7640.20 | -62.55 | 1.80 | 11.30 | -53.05 | -13.00 | H |
| 9550.90 | -60.60 | 2.10 | 11.20 | -51.50 | -13.00 | H |
| 11679.40 | -58.22 | 2.60 | 11.00 | -49.82 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2782.40 | -60.82 | 1.00 | 10.70 | -51.12 | -13.00 | H |
| 5551.20 | -57.59 | 1.40 | 13.10 | -45.89 | -13.00 | H |
| 7630.30 | -65.64 | 1.80 | 11.30 | -56.14 | -13.00 | H |
| 9251.70 | -60.96 | 2.10 | 11.60 | -51.46 | -13.00 | V |
| 11456.10 | -58.46 | 2.60 | 10.50 | -50.56 | -13.00 | V |
| 15098.20 | -57.21 | 2.40 | 12.40 | -47.21 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2807.60 | -61.24 | 1.00 | 10.70 | -51.54 | -13.00 | V |
| 5641.20 | -58.59 | 1.30 | 13.10 | -46.79 | -13.00 | H |
| 9401.30 | -54.89 | 2.10 | 11.60 | -45.39 | -13.00 | H |
| 11569.40 | -59.03 | 2.60 | 11.00 | -50.63 | -13.00 | V |
| 12792.60 | -60.85 | 2.70 | 13.80 | -49.75 | -13.00 | V |
| 14764.90 | -56.68 | 2.50 | 11.20 | -47.98 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2865.60 | -61.15 | 1.00 | 10.70 | -51.45 | -13.00 | H |
| 3699.20 | -73.86 | 1.20 | 12.20 | -62.86 | -13.00 | H |
| 4814.80 | -71.89 | 1.30 | 12.50 | -60.69 | -13.00 | H |
| 5731.20 | -68.79 | 1.50 | 13.10 | -57.19 | -13.00 | H |
| 7641.30 | -65.05 | 1.80 | 11.30 | -55.55 | -13.00 | H |
| 9550.90 | -57.82 | 2.10 | 11.20 | -48.72 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1648.40 | -40.90 | 0.80 | 8.10 | -33.60 | -13.00 | V |
| 2472.80 | -58.58 | 0.90 | 9.80 | -49.68 | -13.00 | V |
| 3580.80 | -74.87 | 1.10 | 12.20 | -63.77 | -13.00 | H |
| 4672.80 | -72.78 | 1.30 | 12.50 | -61.58 | -13.00 | H |
| 5860.40 | -71.39 | 1.40 | 13.10 | -59.69 | -13.00 | V |
| 7284.90 | -66.45 | 1.90 | 12.00 | -56.35 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2508.40 | -54.53 | 0.90 | 10.70 | -44.73 | -13.00 | V |
| 2896.00 | -60.87 | 1.00 | 10.70 | -51.17 | -13.00 | V |
| 3510.40 | -74.43 | 1.10 | 12.20 | -63.33 | -13.00 | V |
| 4684.80 | -73.14 | 1.30 | 12.50 | -61.94 | -13.00 | H |
| 5947.20 | -72.25 | 1.50 | 13.10 | -60.65 | -13.00 | H |
| 7254.10 | -66.31 | 1.90 | 12.00 | -56.21 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1695.60 | -47.00 | 0.80 | 8.10 | -39.70 | -13.00 | V |
| 2543.60 | -48.40 | 0.90 | 10.70 | -38.60 | -13.00 | H |
| 3391.20 | -71.42 | 1.10 | 11.50 | -61.02 | -13.00 | V |
| 4390.40 | -73.63 | 1.30 | 12.40 | -62.53 | -13.00 | V |
| 5860.40 | -71.89 | 1.40 | 13.10 | -60.19 | -13.00 | H |
| 8621.40 | -66.21 | 2.00 | 12.00 | -56.21 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1648.40 | -43.25 | 0.80 | 8.10 | -35.95 | -13.00 | V |
| 2472.80 | -60.06 | 0.90 | 9.80 | -51.16 | -13.00 | V |
| 3576.40 | -73.61 | 1.10 | 12.20 | -62.51 | -13.00 | H |
| 4541.20 | -73.00 | 1.30 | 12.50 | -61.80 | -13.00 | H |
| 6095.20 | -70.69 | 1.60 | 13.10 | -59.19 | -13.00 | H |
| 7254.10 | -66.95 | 1.90 | 12.00 | -56.85 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1672.00 | -46.64 | 0.80 | 8.10 | -39.34 | -13.00 | V |
| 2508.40 | -53.20 | 0.90 | 10.70 | -43.40 | -13.00 | V |
| 3344.00 | -71.14 | 1.10 | 11.50 | -60.74 | -13.00 | V |
| 4174.40 | -73.41 | 1.20 | 12.40 | -62.21 | -13.00 | H |
| 6092.40 | -71.34 | 1.60 | 13.10 | -59.84 | -13.00 | H |
| 8325.50 | -65.59 | 1.90 | 11.30 | -56.19 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1695.60 | -45.40 | 0.80 | 8.10 | -38.10 | -13.00 | V |
| 2543.60 | -47.83 | 0.90 | 10.70 | -38.03 | -13.00 | H |
| 3390.80 | -72.20 | 1.10 | 11.50 | -61.80 | -13.00 | H |
| 3878.80 | -73.09 | 1.20 | 12.20 | -62.09 | -13.00 | H |
| 4534.00 | -72.46 | 1.20 | 12.50 | -61.16 | -13.00 | H |
| 7292.60 | -67.47 | 1.90 | 12.00 | -57.37 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1648.40 | -42.46 | 0.80 | 8.10 | -35.16 | -13.00 | V |
| 2473.20 | -56.73 | 0.90 | 9.80 | -47.83 | -13.00 | V |
| 3400.00 | -73.86 | 1.10 | 11.50 | -63.46 | -13.00 | H |
| 4623.60 | -73.58 | 1.30 | 12.50 | -62.38 | -13.00 | H |
| 5996.40 | -71.78 | 1.50 | 13.10 | -60.18 | -13.00 | H |
| 8081.30 | -65.57 | 2.00 | 11.30 | -56.27 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1672.00 | -46.95 | 0.80 | 8.10 | -39.65 | -13.00 | V |
| 2508.00 | -54.28 | 0.90 | 10.70 | -44.48 | -13.00 | V |
| 3544.40 | -74.24 | 1.20 | 12.20 | -63.24 | -13.00 | H |
| 4466.80 | -73.09 | 1.20 | 12.40 | -61.89 | -13.00 | H |
| 5549.20 | -71.96 | 1.40 | 13.10 | -60.26 | -13.00 | H |
| 7266.20 | -66.26 | 1.90 | 12.00 | -56.16 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1695.60 | -46.71 | 0.80 | 8.10 | -39.41 | -13.00 | V |
| 2543.60 | -47.94 | 0.90 | 10.70 | -38.14 | -13.00 | H |
| 3391.60 | -70.10 | 1.10 | 11.50 | -59.70 | -13.00 | V |
| 4166.40 | -73.45 | 1.20 | 12.40 | -62.25 | -13.00 | V |
| 5856.40 | -72.21 | 1.40 | 13.10 | -60.51 | -13.00 | H |
| 7280.50 | -66.58 | 1.90 | 12.00 | -56.48 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1628.40 | -41.52 | 0.80 | 8.10 | -34.22 | -13.00 | V |
| 2014.40 | -57.74 | 0.80 | 9.80 | -48.74 | -13.00 | H |
| 2849.60 | -61.31 | 1.00 | 10.70 | -51.61 | -13.00 | V |
| 3568.40 | -74.58 | 1.20 | 12.20 | -63.58 | -13.00 | H |
| 4860.00 | -72.53 | 1.30 | 12.50 | -61.33 | -13.00 | H |
| 7559.90 | -65.58 | 1.80 | 11.30 | -56.08 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1636.80 | -39.41 | 0.80 | 8.10 | -32.11 | -13.00 | H |
| 1938.40 | -61.77 | 0.80 | 8.10 | -54.47 | -13.00 | V |
| 2455.60 | -58.01 | 0.90 | 9.80 | -49.11 | -13.00 | V |
| 3374.80 | -73.45 | 1.10 | 11.50 | -63.05 | -13.00 | V |
| 4680.00 | -72.46 | 1.30 | 12.50 | -61.26 | -13.00 | H |
| 6100.00 | -71.03 | 1.60 | 13.10 | -59.53 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1645.60 | -40.17 | 0.80 | 8.10 | -32.87 | -13.00 | V |
| 2021.20 | -64.17 | 0.80 | 9.80 | -55.17 | -13.00 | H |
| 2468.80 | -57.89 | 0.90 | 9.80 | -48.99 | -13.00 | V |
| 3952.40 | -73.51 | 1.20 | 12.20 | -62.51 | -13.00 | H |
| 4858.00 | -72.74 | 1.30 | 12.50 | -61.54 | -13.00 | H |
| 7008.80 | -67.09 | 1.80 | 12.00 | -56.89 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1628.40 | -42.71 | 0.80 | 8.10 | -35.41 | -13.00 | V |
| 2274.00 | -62.96 | 0.90 | 9.80 | -54.06 | -13.00 | V |
| 2884.40 | -61.14 | 1.00 | 10.70 | -51.44 | -13.00 | V |
| 3788.40 | -74.14 | 1.10 | 12.20 | -63.04 | -13.00 | H |
| 4506.40 | -72.86 | 1.20 | 12.50 | -61.56 | -13.00 | H |
| 5551.60 | -72.81 | 1.40 | 13.10 | -61.11 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1637.20 | -43.14 | 0.80 | 8.10 | -35.84 | -13.00 | V |
| 1982.40 | -62.94 | 0.80 | 8.10 | -55.64 | -13.00 | H |
| 2455.60 | -61.49 | 0.90 | 9.80 | -52.59 | -13.00 | V |
| 3833.20 | -73.59 | 1.20 | 12.20 | -62.59 | -13.00 | H |
| 4952.00 | -71.86 | 1.30 | 12.50 | -60.66 | -13.00 | H |
| 6904.40 | -68.01 | 1.80 | 12.40 | -57.41 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1645.20 | -45.15 | 0.80 | 8.10 | -37.85 | -13.00 | V |
| 2793.60 | -61.35 | 1.00 | 10.70 | -51.65 | -13.00 | V |
| 3418.80 | -73.65 | 1.20 | 11.50 | -63.35 | -13.00 | V |
| 3913.20 | -73.85 | 1.30 | 12.20 | -62.95 | -13.00 | H |
| 4726.00 | -73.15 | 1.30 | 12.50 | -61.95 | -13.00 | H |
| 7193.60 | -67.45 | 1.80 | 12.00 | -57.25 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1628.40 | -38.57 | 0.80 | 8.10 | -31.27 | -13.00 | H |
| 2442.80 | -59.93 | 0.90 | 9.80 | -51.03 | -13.00 | H |
| 2774.00 | -60.89 | 1.00 | 10.70 | -51.19 | -13.00 | V |
| 3256.80 | -67.46 | 1.10 | 11.50 | -57.06 | -13.00 | H |
| 4686.80 | -72.17 | 1.30 | 12.50 | -60.97 | -13.00 | H |
| 7267.30 | -65.89 | 1.90 | 12.00 | -55.79 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1637.20 | -45.39 | 0.80 | 8.10 | -38.09 | -13.00 | V |
| 2455.60 | -61.32 | 0.90 | 9.80 | -52.42 | -13.00 | V |
| 2961.20 | -61.26 | 1.00 | 10.70 | -51.56 | -13.00 | H |
| 4503.60 | -74.07 | 1.20 | 12.50 | -62.77 | -13.00 | V |
| 6143.60 | -72.94 | 1.60 | 13.10 | -61.44 | -13.00 | H |
| 8048.30 | -65.68 | 2.00 | 11.30 | -56.38 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 1645.60 | -45.39 | 0.80 | 8.10 | -38.09 | -13.00 | V |
| 2468.80 | -61.32 | 0.90 | 9.80 | -52.42 | -13.00 | V |
| 2978.00 | -61.26 | 1.00 | 10.70 | -51.56 | -13.00 | H |
| 3963.20 | -73.77 | 1.20 | 12.20 | -62.77 | -13.00 | H |
| 5497.60 | -72.54 | 1.40 | 12.50 | -61.44 | -13.00 | H |
| 7195.80 | -66.58 | 1.80 | 12.00 | -56.38 | -13.00 | H |

**LTE Band 41, 5MHz, QPSK, Channel 39675**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2913.60 | -61.89 | 1.00 | 10.70 | -52.19 | -25.00 | H |
| 3579.20 | -74.52 | 1.10 | 12.20 | -63.42 | -25.00 | H |
| 4992.80 | -68.46 | 1.30 | 12.50 | -57.26 | -25.00 | V |
| 6110.40 | -70.84 | 1.60 | 13.10 | -59.34 | -25.00 | H |
| 7489.50 | -63.04 | 1.90 | 12.00 | -52.94 | -25.00 | V |
| 11560.60 | -59.46 | 2.60 | 11.00 | -51.06 | -25.00 | V |

**LTE Band 41, 5MHz, QPSK, Channel 40620**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2817.20 | -61.26 | 1.00 | 10.70 | -51.56 | -25.00 | H |
| 3821.60 | -74.12 | 1.20 | 12.20 | -63.12 | -25.00 | H |
| 5181.60 | -67.46 | 1.60 | 12.50 | -56.56 | -25.00 | H |
| 7259.60 | -66.55 | 1.90 | 12.00 | -56.45 | -25.00 | V |
| 9828.10 | -62.57 | 2.30 | 11.20 | -53.67 | -25.00 | V |
| 14715.40 | -56.85 | 2.50 | 11.20 | -48.15 | -25.00 | V |

**LTE Band 41, 5MHz, QPSK, Channel 41565**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2923.20 | -61.52 | 1.00 | 10.70 | -51.82 | -25.00 | H |
| 3707.60 | -73.71 | 1.20 | 12.20 | -62.71 | -25.00 | H |
| 4815.60 | -71.97 | 1.30 | 12.50 | -60.77 | -25.00 | H |
| 7258.50 | -66.58 | 1.90 | 12.00 | -56.48 | -25.00 | H |
| 8056.00 | -59.67 | 2.00 | 11.30 | -50.37 | -25.00 | V |
| 11602.40 | -58.83 | 2.60 | 11.00 | -50.43 | -25.00 | V |

**LTE Band 41, 5MHz, 16QAM, Channel 39675**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2935.20 | -61.16 | 1.00 | 10.70 | -51.46 | -25.00 | H |
| 3905.20 | -74.52 | 1.20 | 12.20 | -63.52 | -25.00 | H |
| 4993.20 | -67.49 | 1.30 | 12.50 | -56.29 | -25.00 | V |
| 6343.60 | -70.36 | 1.60 | 13.10 | -58.86 | -25.00 | H |
| 7488.40 | -62.94 | 1.90 | 12.00 | -52.84 | -25.00 | V |
| 14751.70 | -56.14 | 2.50 | 11.20 | -47.44 | -25.00 | V |

**LTE Band 41, 5MHz, 16QAM, Channel 40620**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2956.80 | -60.86 | 1.00 | 10.70 | -51.16 | -25.00 | H |
| 3834.40 | -74.03 | 1.20 | 12.20 | -63.03 | -25.00 | H |
| 5182.00 | -69.38 | 1.60 | 12.50 | -58.48 | -25.00 | V |
| 7017.60 | -66.89 | 1.80 | 12.00 | -56.69 | -25.00 | H |
| 7772.20 | -63.87 | 1.80 | 11.30 | -54.37 | -25.00 | H |
| 10243.90 | -62.15 | 2.20 | 11.30 | -53.05 | -25.00 | V |

**LTE Band 41, 5MHz, 16QAM, Channel 41565**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2952.00 | -61.19 | 1.00 | 10.70 | -51.49 | -25.00 | H |
| 3829.60 | -73.63 | 1.20 | 12.20 | -62.63 | -25.00 | H |
| 5370.40 | -70.18 | 1.30 | 12.50 | -58.98 | -25.00 | H |
| 7249.70 | -66.08 | 1.90 | 12.00 | -55.98 | -25.00 | H |
| 8056.00 | -60.21 | 2.00 | 11.30 | -50.91 | -25.00 | V |
| 11646.40 | -58.52 | 2.60 | 11.00 | -50.12 | -25.00 | V |

**LTE Band 41, 5MHz, 64QAM, Channel 39675**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2796.80 | -60.79 | 1.00 | 10.70 | -51.09 | -25.00 | V |
| 3828.00 | -74.12 | 1.20 | 12.20 | -63.12 | -25.00 | H |
| 4992.40 | -64.91 | 1.30 | 12.50 | -53.71 | -25.00 | H |
| 6296.80 | -70.83 | 1.60 | 13.10 | -59.33 | -25.00 | H |
| 7488.40 | -61.66 | 1.90 | 12.00 | -51.56 | -25.00 | V |
| 12797.00 | -60.35 | 2.70 | 13.80 | -49.25 | -25.00 | V |

**LTE Band 41, 5MHz, 64QAM, Channel 40620**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2961.60 | -61.30 | 1.00 | 10.70 | -51.60 | -25.00 | H |
| 3916.80 | -73.25 | 1.30 | 12.20 | -62.35 | -25.00 | H |
| 5182.00 | -68.71 | 1.60 | 12.50 | -57.81 | -25.00 | V |
| 7284.90 | -66.94 | 1.90 | 12.00 | -56.84 | -25.00 | H |
| 7772.20 | -64.93 | 1.80 | 11.30 | -55.43 | -25.00 | H |
| 10229.60 | -61.45 | 2.20 | 11.30 | -52.35 | -25.00 | V |

**LTE Band 41, 5MHz, 64QAM, Channel 41565**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2929.60 | -61.90 | 1.00 | 10.70 | -52.20 | -25.00 | V |
| 3563.60 | -74.01 | 1.20 | 12.20 | -63.01 | -25.00 | H |
| 4887.20 | -70.92 | 1.40 | 12.50 | -59.82 | -25.00 | H |
| 8056.00 | -62.26 | 2.00 | 11.30 | -52.96 | -25.00 | H |
| 10227.40 | -62.11 | 2.20 | 11.30 | -53.01 | -25.00 | V |
| 14838.60 | -56.96 | 2.70 | 11.20 | -48.46 | -25.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, QPSK, Channel 42115**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5498.40 | -56.78 | 1.40 | 12.50 | -45.68 | -13.00 | H |
| 6800.80 | -37.11 | 1.60 | 12.40 | -26.31 | -13.00 | V |
| 9159.30 | -65.04 | 2.10 | 11.60 | -55.54 | -13.00 | H |
| 11043.60 | -59.08 | 2.30 | 10.50 | -50.88 | -13.00 | H |
| 14772.60 | -57.09 | 2.50 | 11.20 | -48.39 | -13.00 | H |
| 16467.70 | -63.20 | 2.70 | 17.40 | -48.50 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, QPSK, Channel 42590**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 4958.40 | -58.13 | 1.30 | 12.50 | -46.93 | -13.00 | V |
| 6995.60 | -35.44 | 1.80 | 12.40 | -24.84 | -13.00 | V |
| 8137.40 | -65.70 | 1.80 | 11.30 | -56.20 | -13.00 | V |
| 11664.00 | -58.48 | 2.60 | 11.00 | -50.08 | -13.00 | V |
| 14774.80 | -56.37 | 2.50 | 11.20 | -47.67 | -13.00 | H |
| 17950.50 | -55.58 | 3.20 | 12.80 | -45.98 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, QPSK, Channel 43065**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5485.60 | -57.86 | 1.40 | 12.50 | -46.76 | -13.00 | V |
| 6916.40 | -53.51 | 1.80 | 12.40 | -42.91 | -13.00 | H |
| 8144.00 | -65.16 | 1.80 | 11.30 | -55.66 | -13.00 | H |
| 9343.00 | -64.77 | 2.00 | 11.60 | -55.17 | -13.00 | V |
| 11026.00 | -59.55 | 2.30 | 10.50 | -51.35 | -13.00 | V |
| 14747.30 | -56.64 | 2.50 | 11.20 | -47.94 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 16QAM, Channel 42115**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5502.40 | -57.29 | 1.40 | 13.10 | -45.59 | -13.00 | H |
| 6800.80 | -38.08 | 1.60 | 12.40 | -27.28 | -13.00 | V |
| 8215.50 | -65.20 | 2.20 | 11.30 | -56.10 | -13.00 | V |
| 10238.40 | -61.65 | 2.20 | 11.30 | -52.55 | -13.00 | H |
| 12253.60 | -59.99 | 2.60 | 12.60 | -49.99 | -13.00 | V |
| 14834.20 | -55.89 | 2.70 | 11.20 | -47.39 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 16QAM, Channel 42590**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 6022.80 | -56.63 | 1.50 | 13.10 | -45.03 | -13.00 | H |
| 6996.00 | -37.65 | 1.80 | 12.40 | -27.05 | -13.00 | V |
| 9004.20 | -64.78 | 2.00 | 11.60 | -55.18 | -13.00 | H |
| 11645.30 | -58.31 | 2.60 | 11.00 | -49.91 | -13.00 | V |
| 14649.40 | -56.23 | 2.60 | 11.20 | -47.63 | -13.00 | V |
| 17696.40 | -56.78 | 3.30 | 12.80 | -47.28 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 16QAM, Channel 43065**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5502.40 | -57.27 | 1.40 | 13.10 | -45.57 | -13.00 | H |
| 6933.20 | -53.22 | 1.80 | 12.40 | -42.62 | -13.00 | H |
| 9014.10 | -65.00 | 2.00 | 11.60 | -55.40 | -13.00 | H |
| 11060.10 | -59.35 | 2.30 | 10.50 | -51.15 | -13.00 | H |
| 13318.40 | -61.23 | 2.30 | 13.30 | -50.23 | -13.00 | V |
| 14703.30 | -56.74 | 2.50 | 11.20 | -48.04 | -13.00 | V |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 64QAM, Channel 42115**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5504.80 | -57.63 | 1.40 | 13.10 | -45.93 | -13.00 | H |
| 6800.80 | -37.94 | 1.60 | 12.40 | -27.14 | -13.00 | V |
| 8104.40 | -64.92 | 1.80 | 11.30 | -55.42 | -13.00 | H |
| 10136.10 | -63.26 | 2.00 | 11.30 | -53.96 | -13.00 | V |
| 14639.50 | -57.08 | 2.60 | 11.20 | -48.48 | -13.00 | H |
| 17411.50 | -58.72 | 2.90 | 14.50 | -47.12 | -13.00 | H |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 64QAM, Channel 42590**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 4988.00 | -58.25 | 1.30 | 12.50 | -47.05 | -13.00 | H |
| 6996.40 | -49.26 | 1.80 | 12.40 | -38.66 | -13.00 | V |
| 8112.10 | -65.50 | 1.80 | 11.30 | -56.00 | -13.00 | V |
| 10220.80 | -62.21 | 2.20 | 11.30 | -53.11 | -13.00 | V |
| 12358.10 | -60.21 | 2.60 | 12.60 | -50.21 | -13.00 | V |
| 14757.20 | -55.76 | 2.50 | 11.20 | -47.06 | -13.00 | V |

**LTE Band 42(3450MHz-3550MHz), 5MHz, 64QAM, Channel 43065**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5502.80 | -57.01 | 1.40 | 13.10 | -45.31 | -13.00 | H |
| 6948.80 | -53.54 | 1.80 | 12.40 | -42.94 | -13.00 | H |
| 8119.80 | -66.14 | 1.80 | 11.30 | -56.64 | -13.00 | H |
| 10232.90 | -62.01 | 2.20 | 11.30 | -52.91 | -13.00 | V |
| 12681.50 | -61.39 | 2.60 | 13.80 | -50.19 | -13.00 | V |
| 14762.70 | -56.39 | 2.50 | 11.20 | -47.69 | -13.00 | H |

**LTE Band 48, 5MHz, QPSK, Channel 55265**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5512.40 | -57.20 | 1.40 | 13.10 | -45.50 | -40.00 | H |
| 6934.80 | -53.34 | 1.80 | 12.40 | -42.74 | -40.00 | H |
| 8285.90 | -64.98 | 1.90 | 11.30 | -55.58 | -40.00 | V |
| 11654.10 | -57.91 | 2.60 | 11.00 | -49.51 | -40.00 | V |
| 14693.40 | -57.17 | 2.50 | 11.20 | -48.47 | -40.00 | V |
| 17408.20 | -60.12 | 2.90 | 14.50 | -48.52 | -40.00 | H |

**LTE Band 48, 5MHz, QPSK, Channel 55990**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 6020.00 | -56.72 | 1.50 | 13.10 | -45.12 | -40.00 | H |
| 6997.60 | -52.74 | 1.80 | 12.40 | -42.14 | -40.00 | H |
| 9829.20 | -61.94 | 2.30 | 11.20 | -53.04 | -40.00 | V |
| 11521.00 | -58.84 | 2.60 | 11.00 | -50.44 | -40.00 | V |
| 14767.10 | -55.95 | 2.50 | 11.20 | -47.25 | -40.00 | H |
| 17035.30 | -60.33 | 2.90 | 14.50 | -48.73 | -40.00 | H |

**LTE Band 48, 5MHz, QPSK, Channel 56714**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 4903.60 | -58.25 | 1.40 | 12.50 | -47.15 | -40.00 | V |
| 6376.40 | -55.65 | 1.60 | 13.10 | -44.15 | -40.00 | H |
| 6967.60 | -53.29 | 1.80 | 12.40 | -42.69 | -40.00 | H |
| 8084.60 | -65.72 | 1.80 | 11.30 | -56.22 | -40.00 | V |
| 11672.80 | -57.84 | 2.60 | 11.00 | -49.44 | -40.00 | V |
| 14756.10 | -55.34 | 2.50 | 11.20 | -46.64 | -40.00 | H |

**LTE Band 48, 5MHz, 16QAM, Channel 55265**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5497.20 | -57.48 | 1.40 | 12.50 | -46.38 | -40.00 | H |
| 6939.60 | -53.37 | 1.80 | 12.40 | -42.77 | -40.00 | H |
| 8090.10 | -65.62 | 1.80 | 11.30 | -56.12 | -40.00 | V |
| 10224.10 | -62.30 | 2.20 | 11.30 | -53.20 | -40.00 | V |
| 11645.30 | -58.48 | 2.60 | 11.00 | -50.08 | -40.00 | V |
| 14641.70 | -56.89 | 2.60 | 11.20 | -48.29 | -40.00 | V |

**LTE Band 48, 5MHz, 16QAM, Channel 55990**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5492.00 | -57.35 | 1.40 | 12.50 | -46.25 | -40.00 | H |
| 6910.00 | -53.29 | 1.80 | 12.40 | -42.69 | -40.00 | H |
| 8227.60 | -65.22 | 2.20 | 11.30 | -56.12 | -40.00 | V |
| 9838.00 | -62.32 | 2.30 | 11.20 | -53.42 | -40.00 | V |
| 11490.20 | -58.62 | 2.60 | 10.50 | -50.72 | -40.00 | V |
| 14638.40 | -56.46 | 2.60 | 11.20 | -47.86 | -40.00 | H |

**LTE Band 48, 5MHz, 16QAM, Channel 56714**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 4968.80 | -57.60 | 1.30 | 12.50 | -46.40 | -40.00 | H |
| 6406.00 | -56.59 | 1.60 | 13.10 | -45.09 | -40.00 | H |
| 6988.00 | -53.20 | 1.80 | 12.40 | -42.60 | -40.00 | H |
| 8091.20 | -65.14 | 1.80 | 11.30 | -55.64 | -40.00 | V |
| 11683.80 | -58.65 | 2.60 | 11.00 | -50.25 | -40.00 | V |
| 14777.00 | -56.11 | 2.50 | 11.20 | -47.41 | -40.00 | H |

**LTE Band 48, 5MHz, 64QAM, Channel 55265**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5502.80 | -57.73 | 1.40 | 13.10 | -46.03 | -40.00 | V |
| 6983.20 | -53.40 | 1.80 | 12.40 | -42.80 | -40.00 | H |
| 8149.50 | -65.56 | 1.80 | 11.30 | -56.06 | -40.00 | H |
| 9609.20 | -63.08 | 2.10 | 11.20 | -53.98 | -40.00 | V |
| 11670.60 | -58.75 | 2.60 | 11.00 | -50.35 | -40.00 | V |
| 15099.30 | -57.74 | 2.40 | 12.40 | -47.74 | -40.00 | H |

**LTE Band 48, 5MHz, 64QAM, Channel 55990**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 4779.60 | -58.17 | 1.30 | 12.50 | -46.97 | -40.00 | H |
| 6998.40 | -53.01 | 1.80 | 12.40 | -42.41 | -40.00 | H |
| 8098.90 | -65.22 | 1.80 | 11.30 | -55.72 | -40.00 | V |
| 9787.40 | -62.37 | 2.30 | 11.20 | -53.47 | -40.00 | V |
| 11337.30 | -58.51 | 2.50 | 10.50 | -50.51 | -40.00 | V |
| 14775.90 | -56.93 | 2.50 | 11.20 | -48.23 | -40.00 | H |

**LTE Band 48, 5MHz, 64QAM, Channel 56714**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 5494.80 | -57.56 | 1.40 | 12.50 | -46.46 | -40.00 | H |
| 6990.00 | -53.35 | 1.80 | 12.40 | -42.75 | -40.00 | H |
| 8280.40 | -65.41 | 1.90 | 11.30 | -56.01 | -40.00 | V |
| 10003.00 | -62.91 | 2.20 | 11.30 | -53.81 | -40.00 | V |
| 11618.90 | -58.90 | 2.60 | 11.00 | -50.50 | -40.00 | V |
| 14991.50 | -57.47 | 2.40 | 11.20 | -48.67 | -40.00 | V |

**LTE Band 66, 1.4MHz, QPSK, Channel 131979**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3415.60 | -60.58 | 1.20 | 11.50 | -50.28 | -13.00 | H |
| 5130.80 | -62.88 | 1.30 | 12.50 | -51.68 | -13.00 | H |
| 7212.30 | -66.97 | 1.80 | 12.00 | -56.77 | -13.00 | H |
| 10261.50 | -61.54 | 2.10 | 11.30 | -52.34 | -13.00 | H |
| 11688.20 | -58.45 | 2.60 | 11.00 | -50.05 | -13.00 | V |
| 14751.70 | -56.10 | 2.50 | 11.20 | -47.40 | -13.00 | H |

**LTE Band 66, 1.4MHz, QPSK, Channel 132322**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2798.80 | -61.21 | 1.00 | 10.70 | -51.51 | -13.00 | V |
| 3484.80 | -68.01 | 1.10 | 11.50 | -57.61 | -13.00 | V |
| 5233.60 | -56.30 | 1.80 | 12.50 | -45.60 | -13.00 | H |
| 7025.30 | -67.33 | 1.80 | 12.00 | -57.13 | -13.00 | H |
| 9156.00 | -64.15 | 2.10 | 11.60 | -54.65 | -13.00 | H |
| 12799.20 | -60.55 | 2.70 | 13.80 | -49.45 | -13.00 | V |

**LTE Band 66, 1.4MHz, QPSK, Channel 132665**

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3552.80 | -71.26 | 1.20 | 12.20 | -60.26 | -13.00 | V |
| 5336.80 | -57.39 | 1.30 | 12.50 | -46.19 | -13.00 | V |
| 7400.40 | -66.24 | 1.90 | 12.00 | -56.14 | -13.00 | H |
| 10246.10 | -61.59 | 2.20 | 11.30 | -52.49 | -13.00 | H |
| 11700.30 | -58.50 | 2.60 | 11.00 | -50.10 | -13.00 | V |
| 14744.00 | -55.93 | 2.50 | 11.20 | -47.23 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3416.00 | -61.56 | 1.20 | 11.50 | -51.26 | -13.00 | V |
| 5130.80 | -62.11 | 1.30 | 12.50 | -50.91 | -13.00 | V |
| 6181.20 | -71.15 | 1.60 | 13.10 | -59.65 | -13.00 | H |
| 7024.20 | -66.42 | 1.80 | 12.00 | -56.22 | -13.00 | H |
| 10271.40 | -62.10 | 2.10 | 11.30 | -52.90 | -13.00 | V |
| 12787.10 | -60.55 | 2.70 | 13.80 | -49.45 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2786.40 | -61.34 | 1.00 | 10.70 | -51.64 | -13.00 | V |
| 3485.20 | -69.68 | 1.10 | 11.50 | -59.28 | -13.00 | V |
| 5233.60 | -59.74 | 1.80 | 12.50 | -49.04 | -13.00 | H |
| 7249.70 | -66.12 | 1.90 | 12.00 | -56.02 | -13.00 | V |
| 11660.70 | -58.86 | 2.60 | 11.00 | -50.46 | -13.00 | V |
| 14640.60 | -56.40 | 2.60 | 11.20 | -47.80 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3553.20 | -69.52 | 1.20 | 12.20 | -58.52 | -13.00 | V |
| 5336.80 | -58.31 | 1.30 | 12.50 | -47.11 | -13.00 | H |
| 6119.20 | -70.86 | 1.60 | 13.10 | -59.36 | -13.00 | H |
| 7671.00 | -65.51 | 1.80 | 11.30 | -56.01 | -13.00 | H |
| 10229.60 | -61.77 | 2.20 | 11.30 | -52.67 | -13.00 | H |
| 12406.50 | -59.87 | 2.60 | 12.60 | -49.87 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 3416.00 | -62.14 | 1.20 | 11.50 | -51.84 | -13.00 | V |
| 5130.80 | -63.89 | 1.30 | 12.50 | -52.69 | -13.00 | V |
| 7001.10 | -66.66 | 1.80 | 12.00 | -56.46 | -13.00 | H |
| 9828.10 | -62.48 | 2.30 | 11.20 | -53.58 | -13.00 | V |
| 11207.50 | -58.31 | 2.50 | 10.50 | -50.31 | -13.00 | V |
| 14639.50 | -56.50 | 2.60 | 11.20 | -47.90 | -13.00 | V |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2764.00 | -61.36 | 1.00 | 10.70 | -51.66 | -13.00 | V |
| 3484.40 | -69.82 | 1.10 | 11.50 | -59.42 | -13.00 | V |
| 5234.00 | -56.58 | 1.80 | 12.50 | -45.88 | -13.00 | V |
| 7652.30 | -65.96 | 1.80 | 11.30 | -56.46 | -13.00 | H |
| 11659.60 | -58.74 | 2.60 | 11.00 | -50.34 | -13.00 | V |
| 14836.40 | -56.27 | 2.70 | 11.20 | -47.77 | -13.00 | H |

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

| Frequency(MHz) | $P_{Mea}$(dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|---|---|---|---|---|---|---|
| 2921.20 | -60.74 | 1.00 | 10.70 | -51.04 | -13.00 | H |
| 3553.20 | -72.44 | 1.20 | 12.20 | -61.44 | -13.00 | V |
| 5336.80 | -56.77 | 1.30 | 12.50 | -45.57 | -13.00 | H |
| 7556.60 | -66.00 | 1.80 | 11.30 | -56.50 | -13.00 | V |
| 11023.80 | -59.13 | 2.30 | 10.50 | -50.93 | -13.00 | H |
| 14762.70 | -56.18 | 2.50 | 11.20 | -47.48 | -13.00 | V |

Note: The maximum value of expanded measurement uncertainty for this test item is
U = 2.72dB(30MHz-3GHz)/3.60dB(3GHz-18GHz)/3.58dB(18GHz-40GHz), k = 2

## A.3 FREQUENCY STABILITY

**Reference**

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

**A.3.1 Method of Measurement**

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

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

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 7, 20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 2500.980 | 2569.380 | -1.36 | 0.0005 |
| 50 | | | | 2.89 | 0.0011 |
| 40 | | | | 0.32 | 0.0001 |
| 30 | | | | 2.22 | 0.0009 |
| 10 | | | | 3.31 | 0.0013 |
| 0 | | | | 1.13 | 0.0004 |
| -10 | | | | 1.60 | 0.0006 |
| -20 | | | | 1.97 | 0.0008 |
| -30 | | | | | |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 2500.980 | 2569.380 | 1.86 | 0.0007 |
| 4.40 | | | | 1.27 | 0.0005 |

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

**LTE Band 12, 10MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 699.580 | 715.760 | | |
| 50 | | | | -0.63 | 0.0009 |
| 40 | | | | 0.29 | 0.0004 |
| 30 | | | | -0.46 | 0.0006 |
| 10 | | | | -1.60 | 0.0023 |
| 0 | | | | -0.76 | 0.0011 |
| -10 | | | | -0.72 | 0.0010 |
| -20 | | | | -0.50 | 0.0007 |
| -30 | | | | -1.27 | 0.0018 |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 699.580 | 715.760 | -2.13 | 0.0030 |
| 4.40 | | | | -1.23 | 0.0017 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 13, 10MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 777.280 | 787.650 | | |
| 50 | | | | -0.46 | 0.0006 |
| 40 | | | | 0.36 | 0.0005 |
| 30 | | | | 0.33 | 0.0004 |
| 10 | | | | -0.96 | 0.0012 |
| 0 | | | | -0.54 | 0.0007 |
| -10 | | | | 0.01 | 0.0000 |
| -20 | | | | -0.01 | 0.0000 |
| -30 | | | | -1.20 | 0.0015 |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 777.280 | 787.650 | -0.82 | 0.0010 |
| 4.40 | | | | 0.79 | 0.0010 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 25, 20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 50 | 3.85 | 1850.860 | 1914.860 | | |
| 40 | | | | -6.13 | 0.0033 |
| 30 | | | | 0.81 | 0.0004 |
| 20 | | | | 0.70 | 0.0004 |
| 10 | | | | 0.16 | 0.0001 |
| 0 | | | | -0.81 | 0.0004 |
| -10 | | | | -1.21 | 0.0006 |
| -20 | | | | 0.20 | 0.0001 |
| -30 | | | | 1.46 | 0.0008 |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 1850.860 | 1914.860 | 1.98 | 0.0011 |
| 4.40 | | | | -1.11 | 0.0006 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 26(814MHz-824MHz), 10MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 814.760 | 823.840 | | |
| 50 | | | | 0.39 | 0.0005 |
| 40 | | | | 0.47 | 0.0006 |
| 30 | | | | 0.04 | 0.0001 |
| 10 | | | | 1.67 | 0.0020 |
| 0 | | | | -0.70 | 0.0009 |
| -10 | | | | 1.27 | 0.0016 |
| -20 | | | | 0.89 | 0.0011 |
| -30 | | | | 0.92 | 0.0011 |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 814.760 | 823.840 | 0.14 | 0.0002 |
| 4.40 | | | | 0.03 | 0.0000 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE band 26(824MHz-849MHz), 15MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 824.670 | 848.580 | 0.00 | 0.0000 |
| 50 | | | | 0.73 | 0.0009 |
| 40 | | | | 0.57 | 0.0007 |
| 30 | | | | 0.69 | 0.0008 |
| 10 | | | | 0.66 | 0.0008 |
| 0 | | | | 0.53 | 0.0006 |
| -10 | | | | 1.49 | 0.0018 |
| -20 | | | | 0.33 | 0.0004 |
| -30 | | | | | |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 824.670 | 848.580 | 1.15 | 0.0014 |
| 4.40 | | | | 1.77 | 0.0021 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 41, 20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 50 | 3.85 | 2496.820 | 2689.120 | -0.16 | 0.0001 |
| 40 | | | | -1.10 | 0.0004 |
| 30 | | | | 0.13 | 0.0000 |
| 20 | | | | -0.66 | 0.0003 |
| 10 | | | | -0.57 | 0.0002 |
| 0 | | | | -0.83 | 0.0003 |
| -10 | | | | -0.36 | 0.0001 |
| -20 | | | | 2.52 | 0.0010 |
| -30 | | | | | |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 2496.820 | 2689.120 | 0.52 | 0.0002 |
| 4.40 | | | | -0.56 | 0.0002 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 42(3450MHz-3550MHz), 20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 3450.260 | 3549.780 | | |
| 50 | | | | 1.67 | 0.0005 |
| 40 | | | | -0.30 | 0.0001 |
| 30 | | | | 1.21 | 0.0003 |
| 10 | | | | 0.26 | 0.0001 |
| 0 | | | | 1.17 | 0.0003 |
| -10 | | | | 2.33 | 0.0007 |
| -20 | | | | 0.64 | 0.0002 |
| -30 | | | | 0.89 | 0.0003 |

**Frequency Error vs Voltage**

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 3450.260 | 3549.780 | 1.35 | 0.0004 |
| 4.40 | | | | 0.62 | 0.0002 |

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

**LTE Band 66, 20MHz bandwidth (worst case of all bandwidths)**

**Frequency Error vs Temperature**

| Temperature(℃) | Voltage(V) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 20 | 3.85 | 1710.580 | 1779.610 | | |
| 50 | | | | 2.48 | 0.0014 |
| 40 | | | | -0.30 | 0.0002 |
| 30 | | | | 2.74 | 0.0016 |
| 10 | | | | 0.26 | 0.0002 |
| 0 | | | | -2.23 | 0.0013 |
| -10 | | | | 1.14 | 0.0007 |
| -20 | | | | -0.04 | 0.0000 |
| -30 | | | | 3.05 | 0.0017 |

Frequency Error vs Voltage

| Voltage(V) | Temperature(℃) | FL(MHz) | FH(MHz) | Offset(Hz) | Frequency error(ppm) |
|---|---|---|---|---|---|
| 3.60 | 20 | 1710.580 | 1779.610 | 3.39 | 0.0019 |
| 4.40 | | | | 2.88 | 0.0016 |

Expanded measurement uncertainty is 10Hz, k = 2

## A.4 OCCUPIED BANDWIDTH

**Reference**

FCC: CFR Part 2.1053, 22.917, 24.238, 27.53, 90.691, 96.41.

### A.4.1 Occupied Bandwidth Results

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

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

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

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

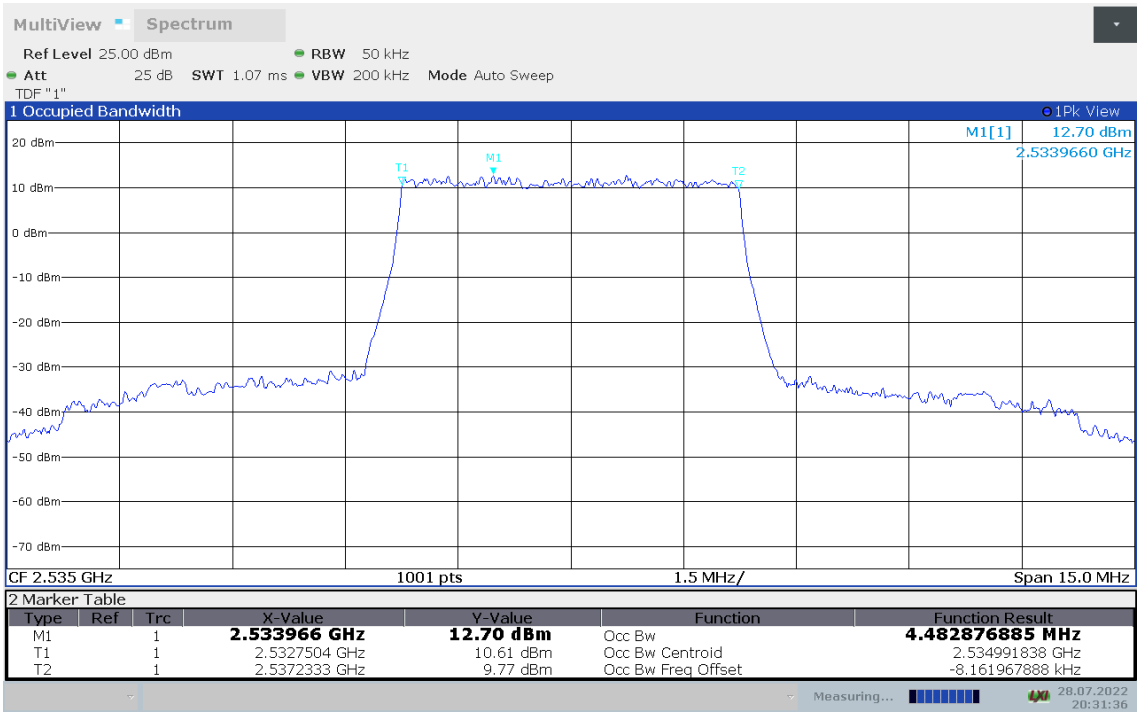
d) Set the detection mode to peak, and the trace mode to max hold.

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

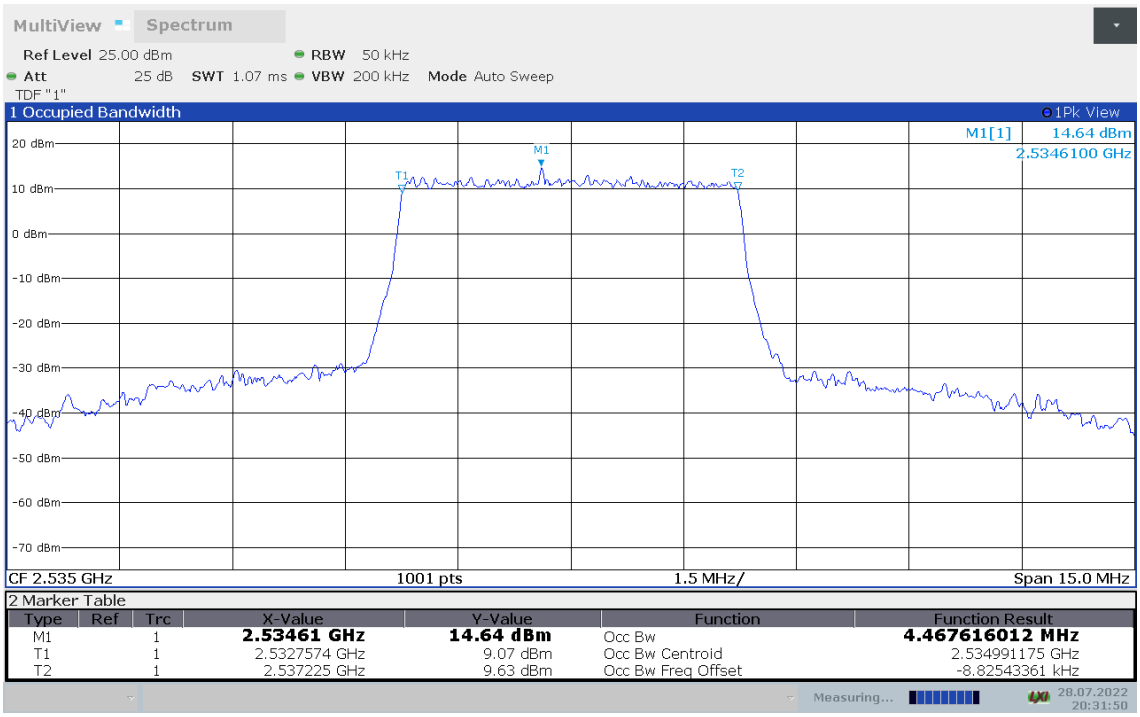
**LTE band 7, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2535.0 | QPSK | 16QAM | 64QAM |
| | 4.483 | 4.468 | 4.468 |

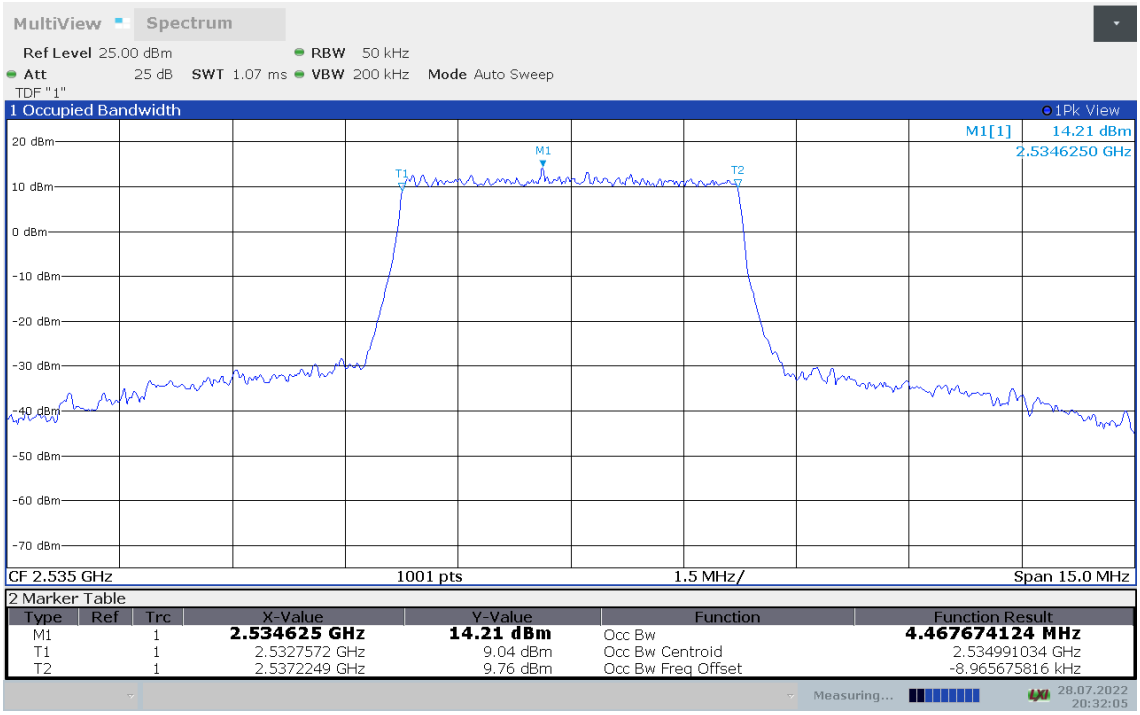
**LTE band 7, 5MHz Bandwidth, QPSK (99% BW)**



## LTE band 7, 5MHz Bandwidth,16QAM (99% BW)



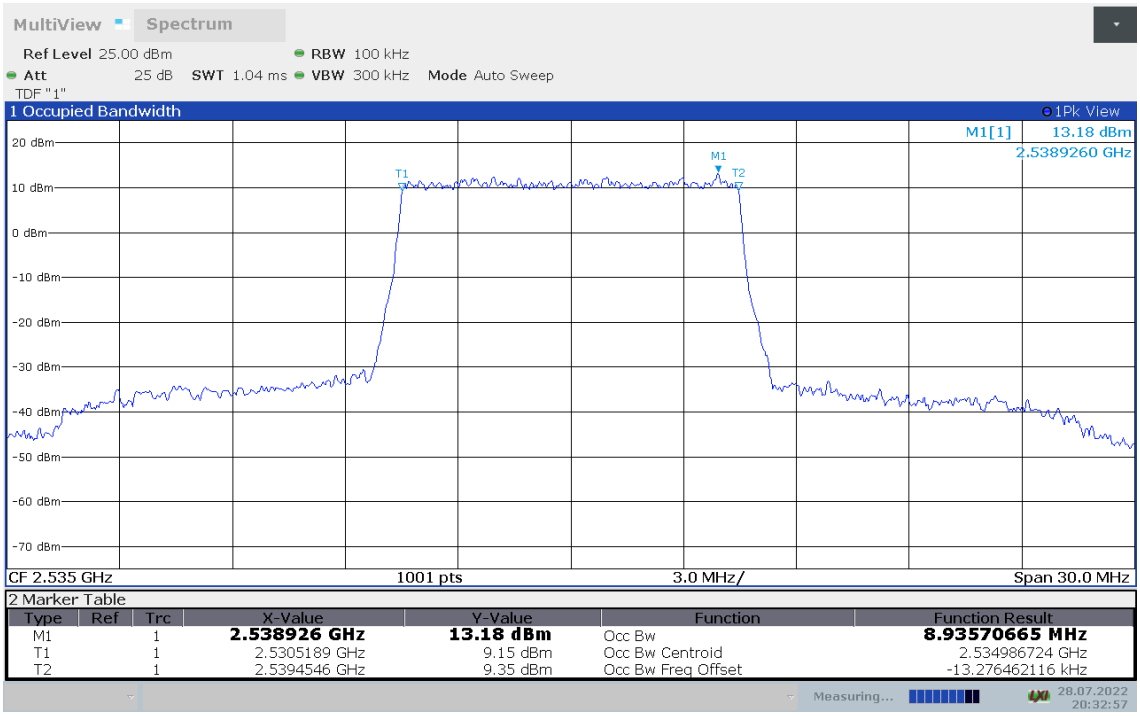

## LTE Band 7, 5MHz Bandwidth,64QAM (99% BW)



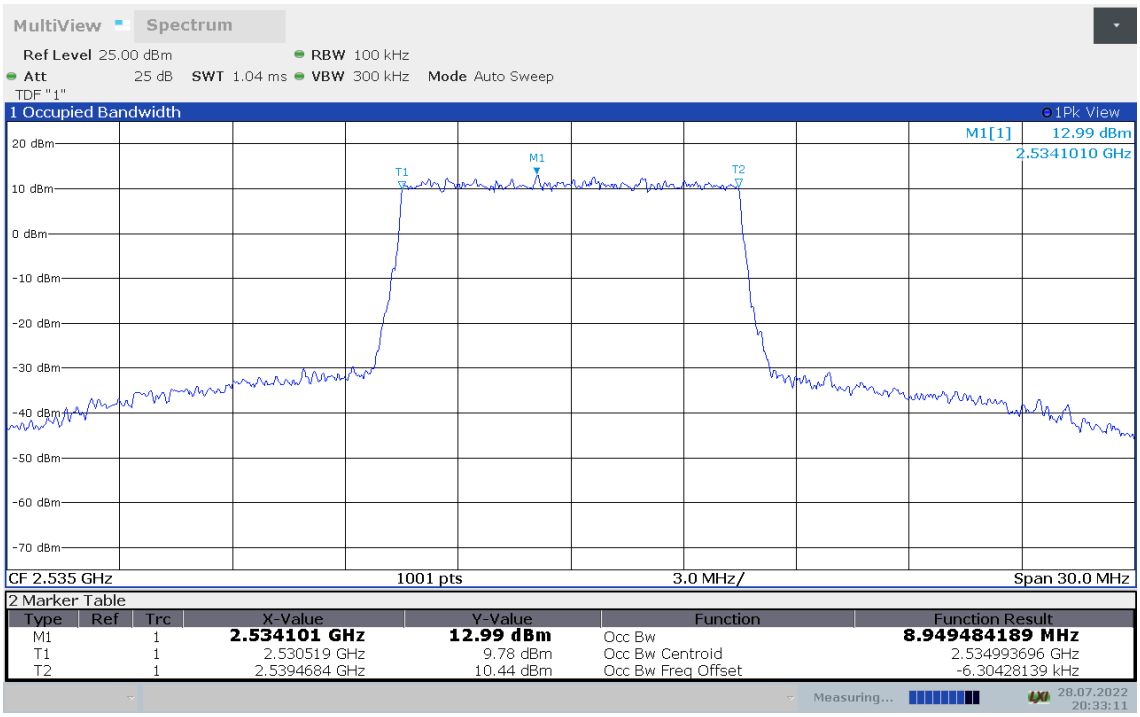
**LTE band 7, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| | QPSK | 16QAM | 64QAM |
| 2535.0 | 8.936 | 8.949 | 8.949 |

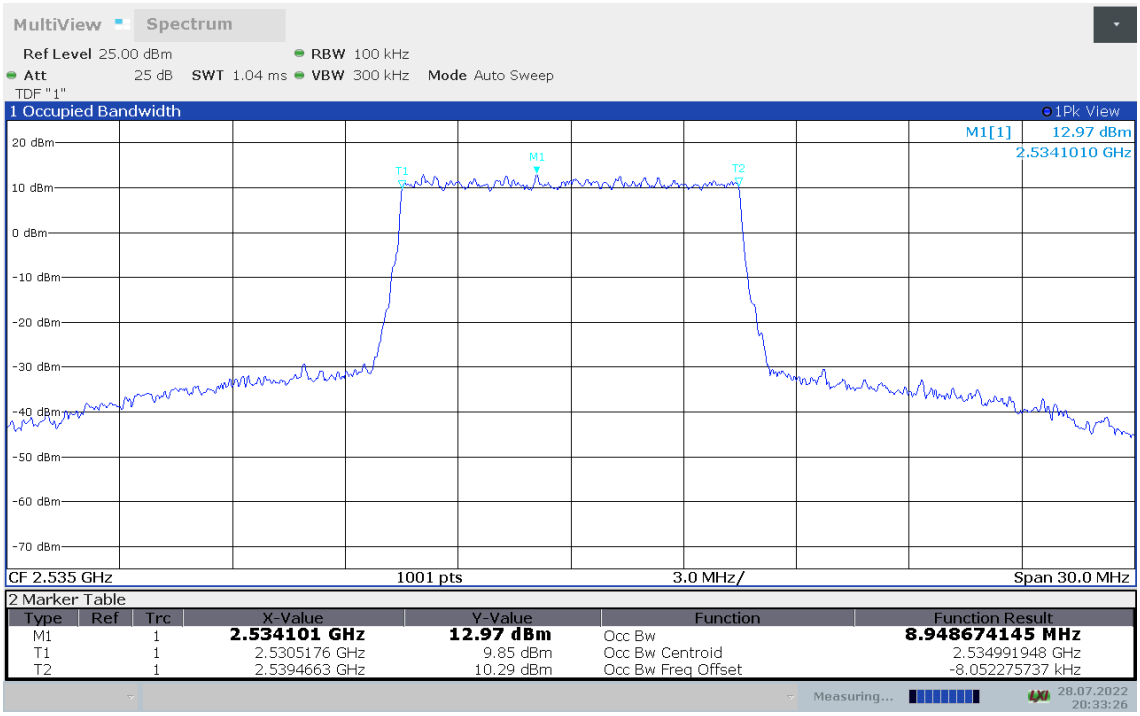
**LTE band 7, 10MHz Bandwidth, QPSK (99% BW)**




**LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)**



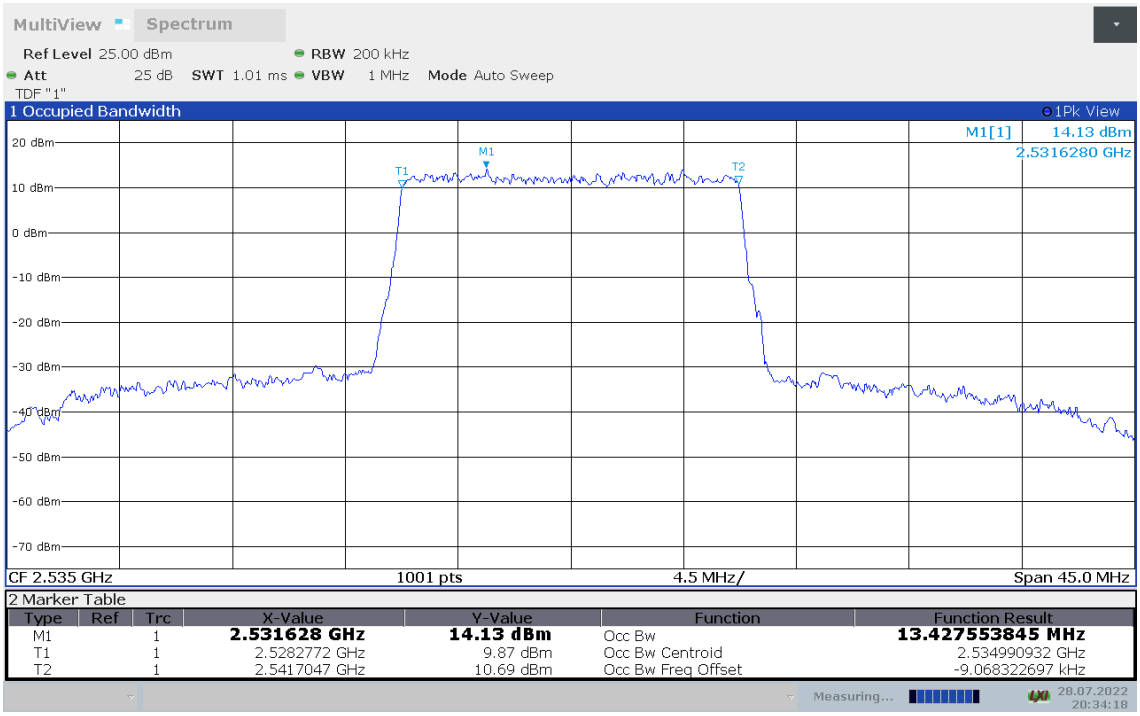
**LTE Band 7, 10MHz Bandwidth, 64QAM (99% BW)**



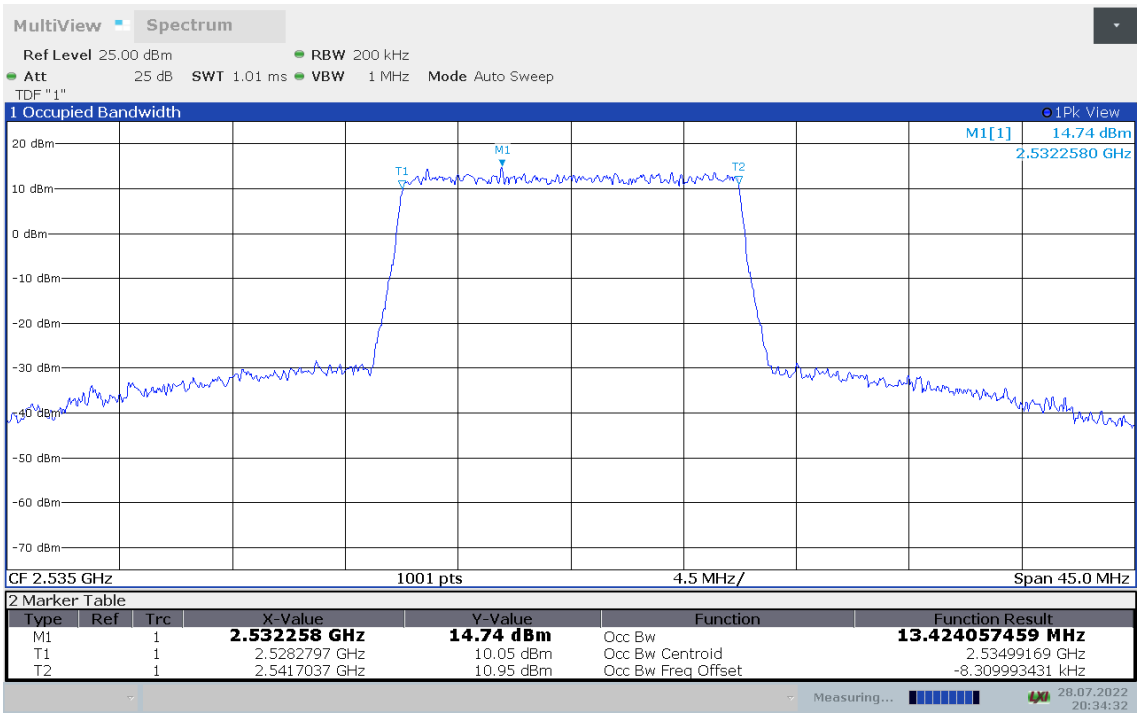
**LTE band 7, 15MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2535.0 | QPSK | 16QAM | 64QAM |
| | 13.427 | 13.424 | 13.424 |

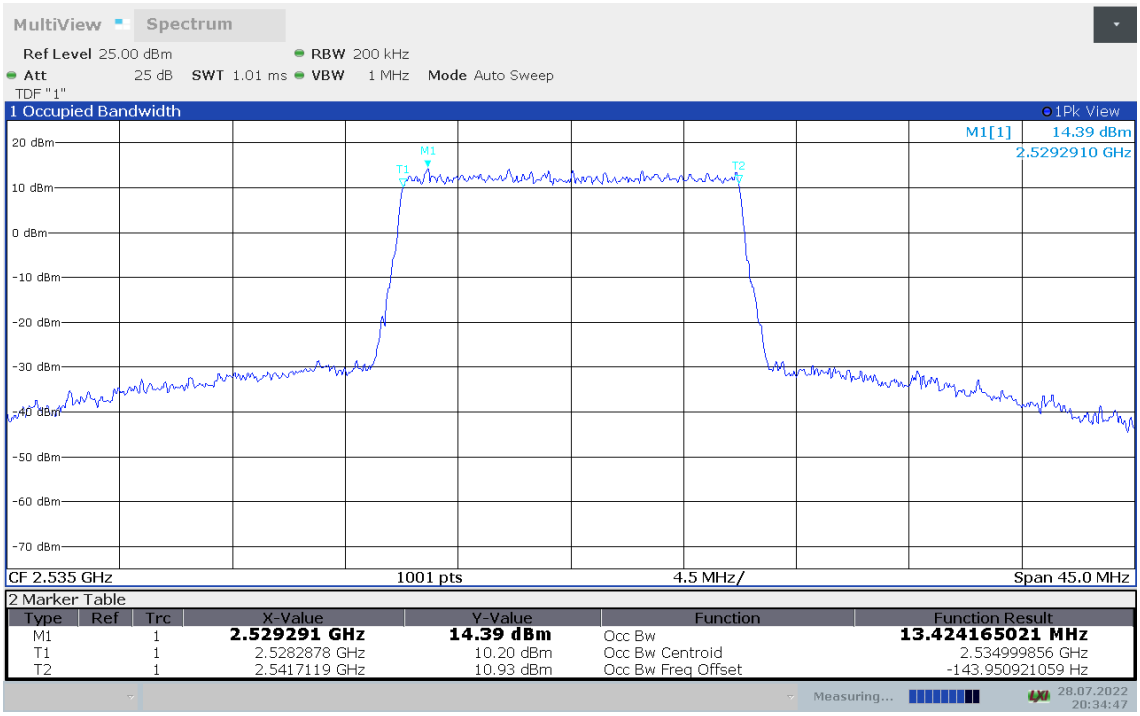
**LTE band 7, 15MHz Bandwidth, QPSK (99% BW)**




**LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)**



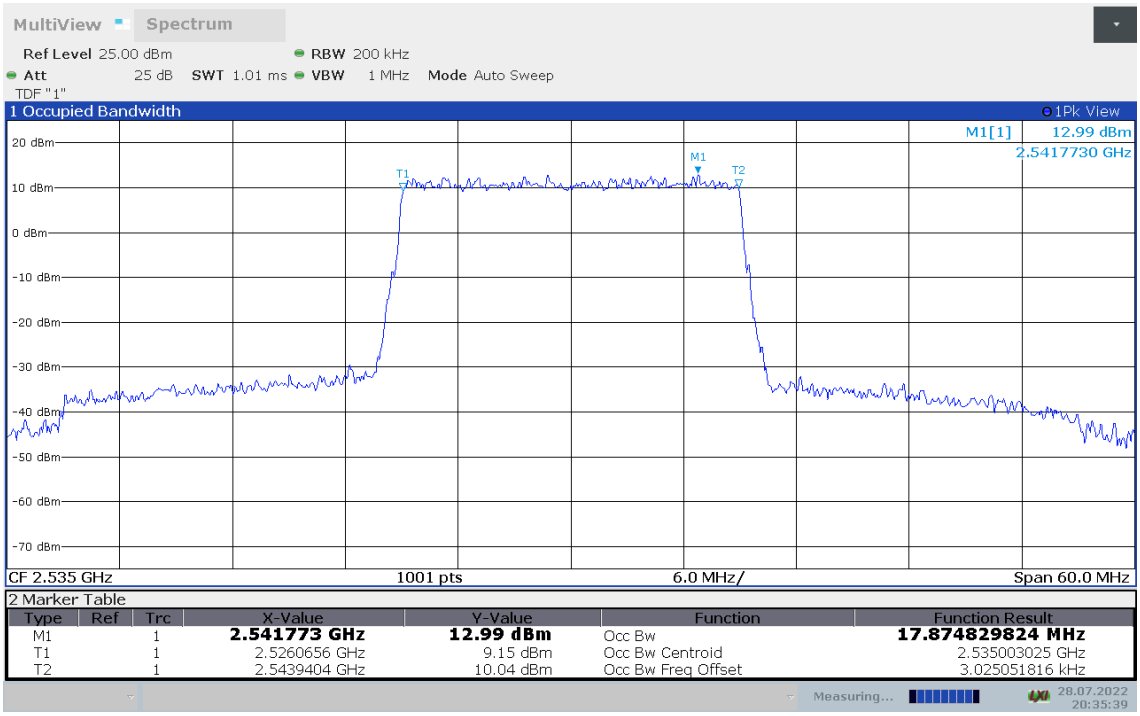
**LTE Band 7, 15MHz Bandwidth, 64QAM (99% BW)**



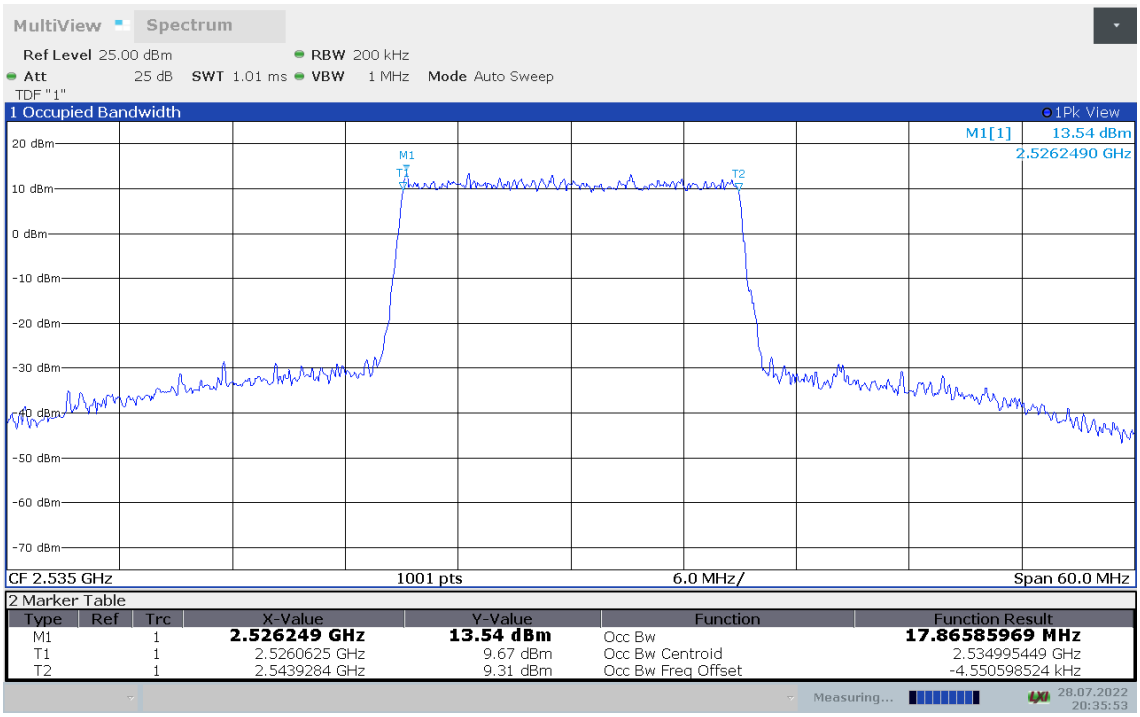
**LTE band 7, 20MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2535.0 | QPSK | 16QAM | 64QAM |
| | 17.875 | 17.866 | 17.897 |

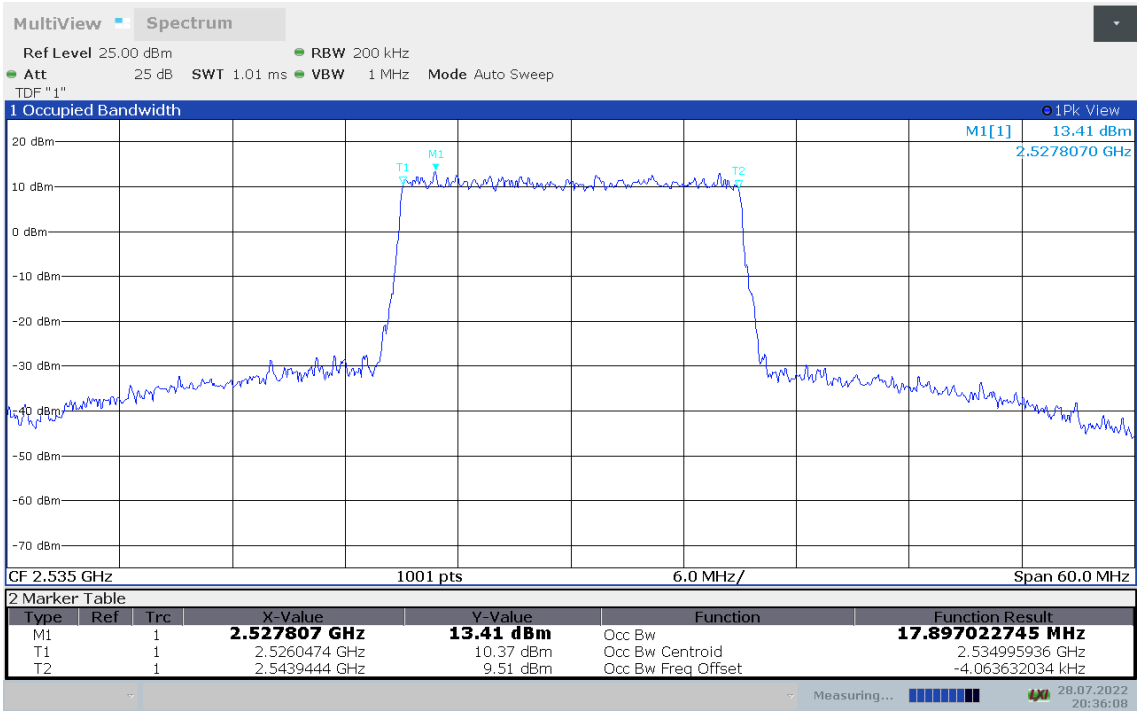
**LTE band 7, 20MHz Bandwidth, QPSK (99% BW)**




**LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)**



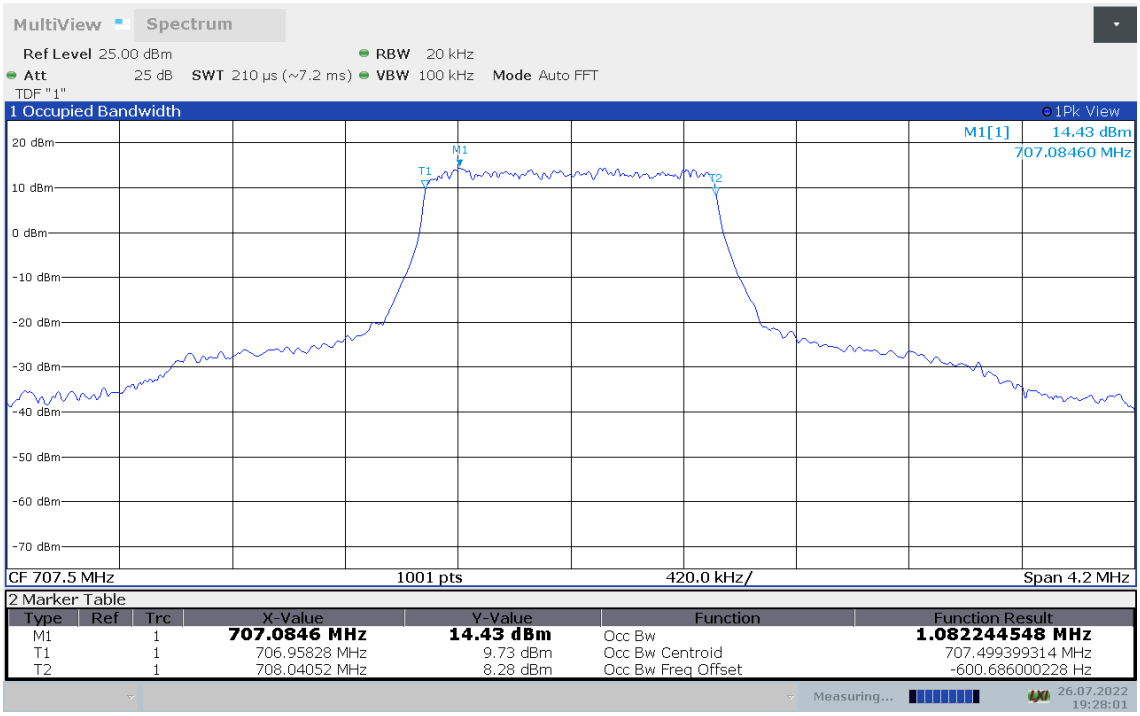
**LTE Band 7, 20MHz Bandwidth, 64QAM (99% BW)**



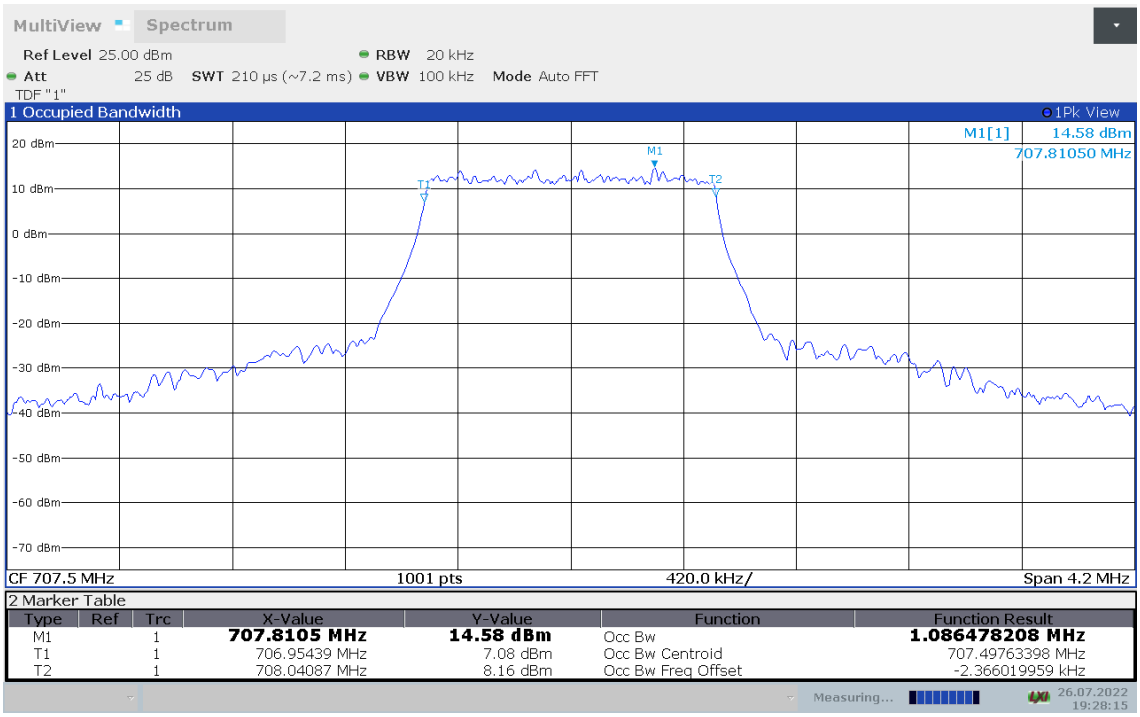
**LTE band 12, 1.4MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 707.5 | QPSK | 16QAM | 64QAM |
| | 1.082 | 1.086 | 1.089 |

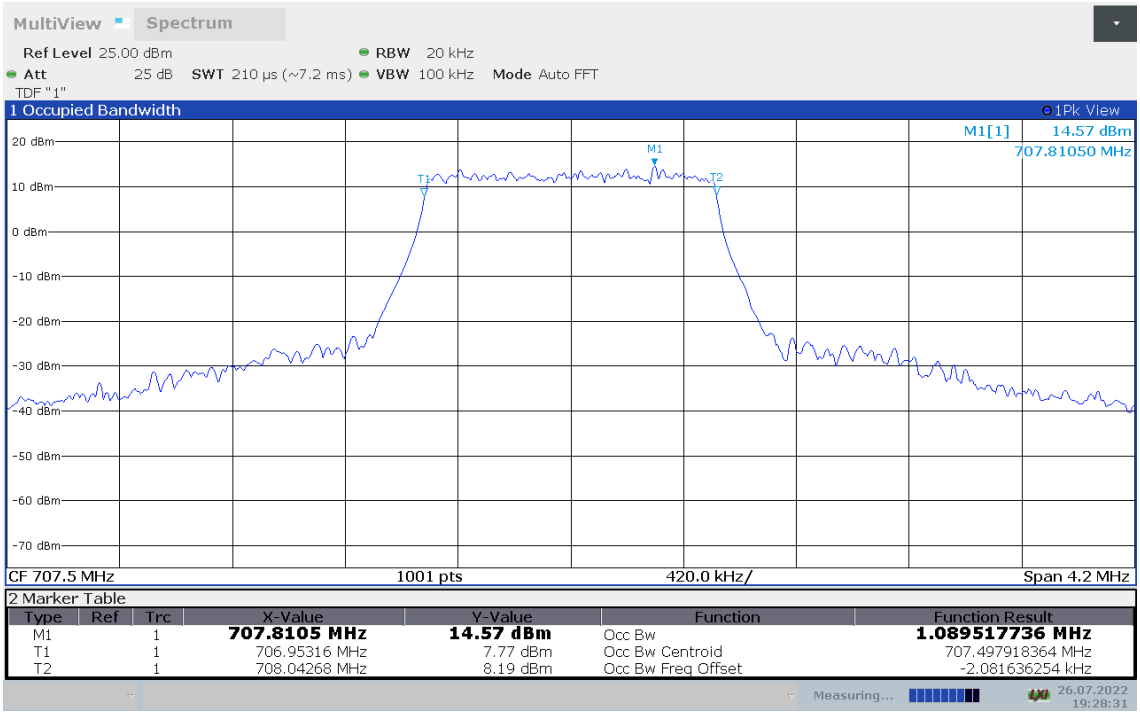
**LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)**




**LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)**



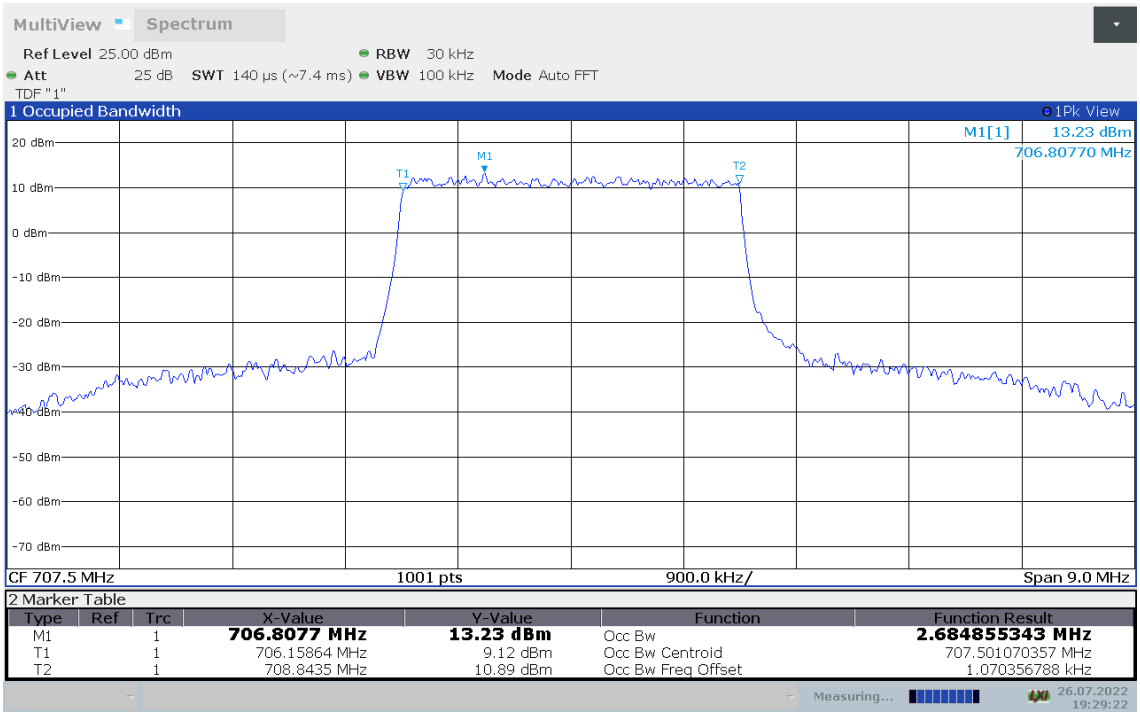
**LTE Band 12, 1.4MHz Bandwidth, 64QAM (99% BW)**



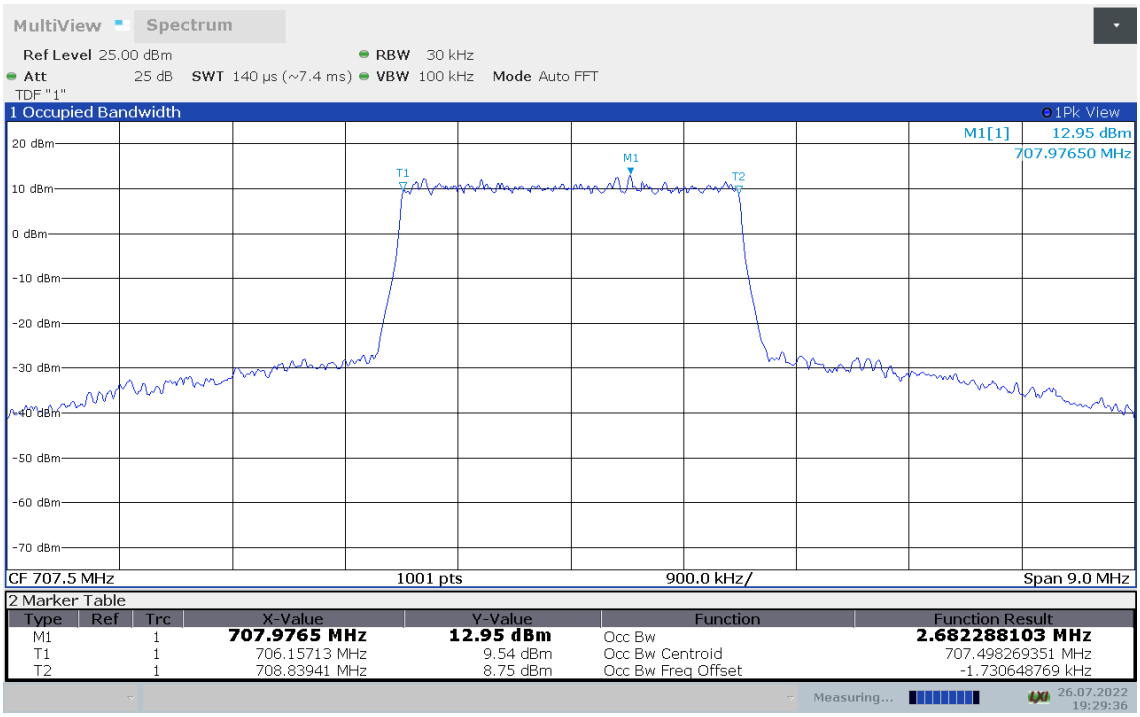
**LTE band 12, 3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 707.5 | QPSK | 16QAM | 64QAM |
| | 2.685 | 2.682 | 2.683 |

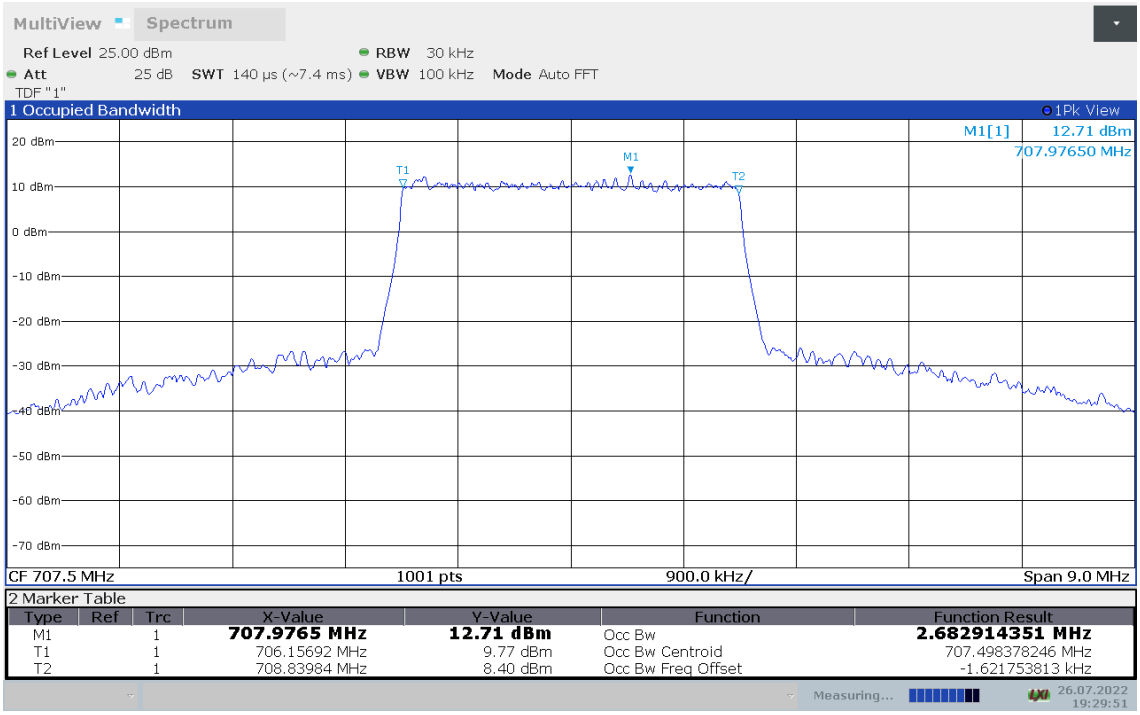
**LTE band 12, 3MHz Bandwidth, QPSK (99% BW)**




**LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)**



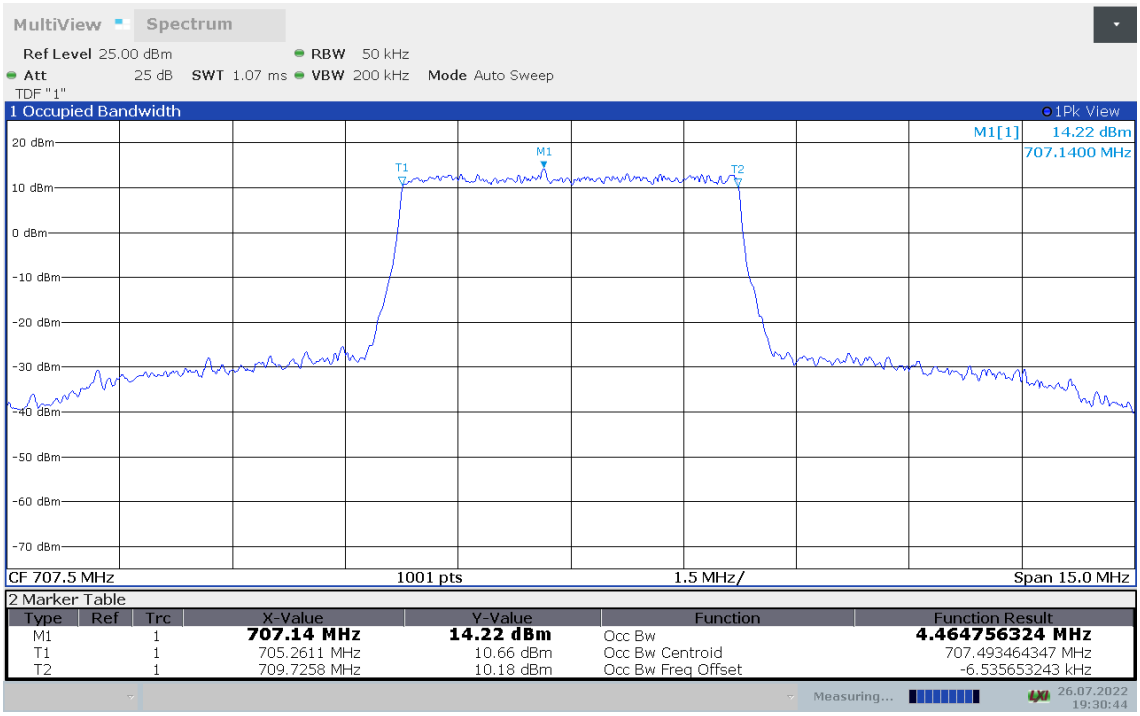
## LTE Band 12, 3MHz Bandwidth, 64QAM (99% BW)



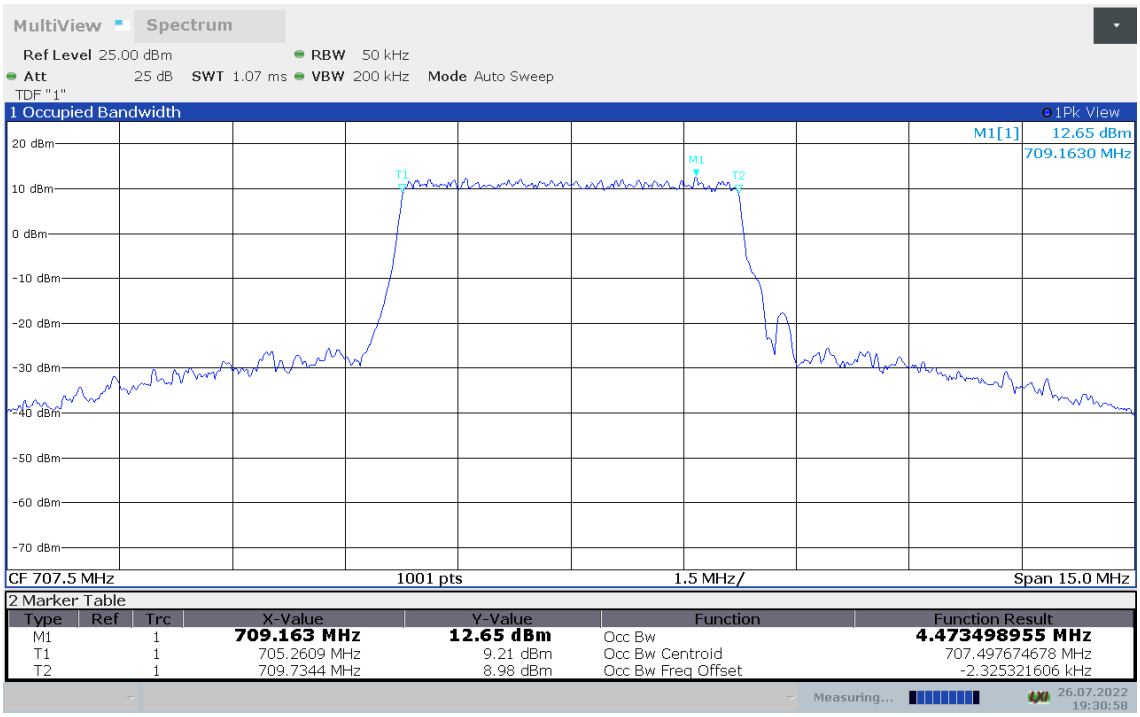
**LTE band 12, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 707.5 | QPSK | 16QAM | 64QAM |
| | 4.465 | 4.473 | 4.471 |

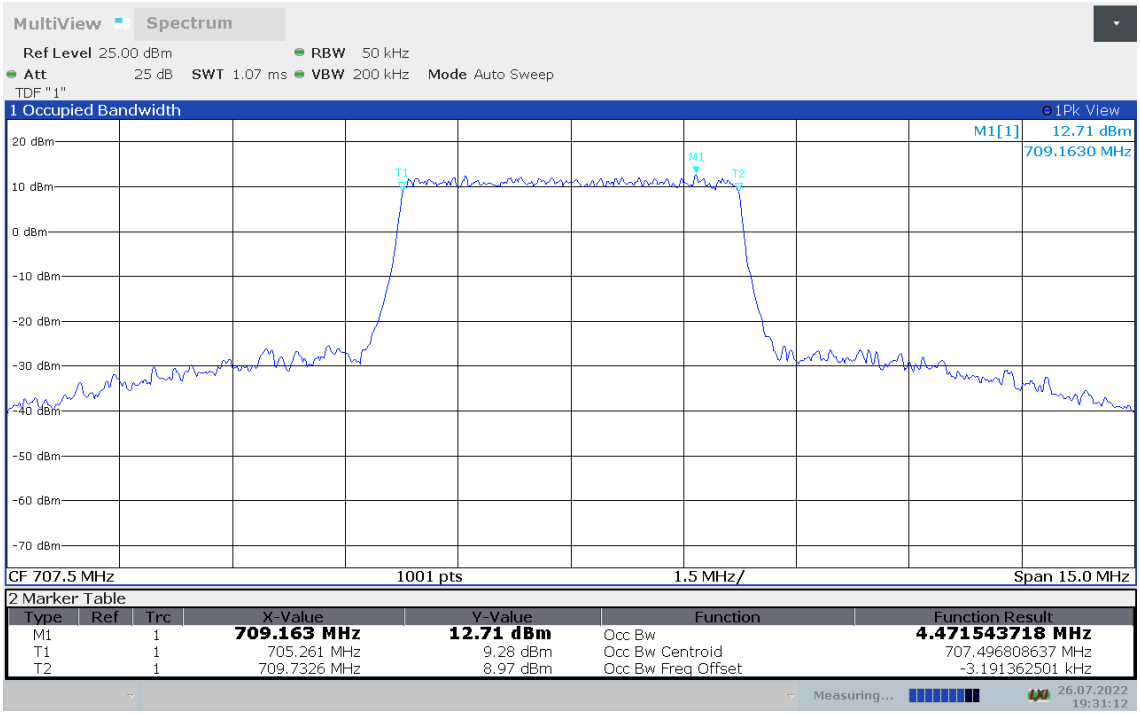
**LTE band 12, 5MHz Bandwidth, QPSK (99% BW)**




**LTE band 12, 5MHz Bandwidth,16QAM (99% BW)**



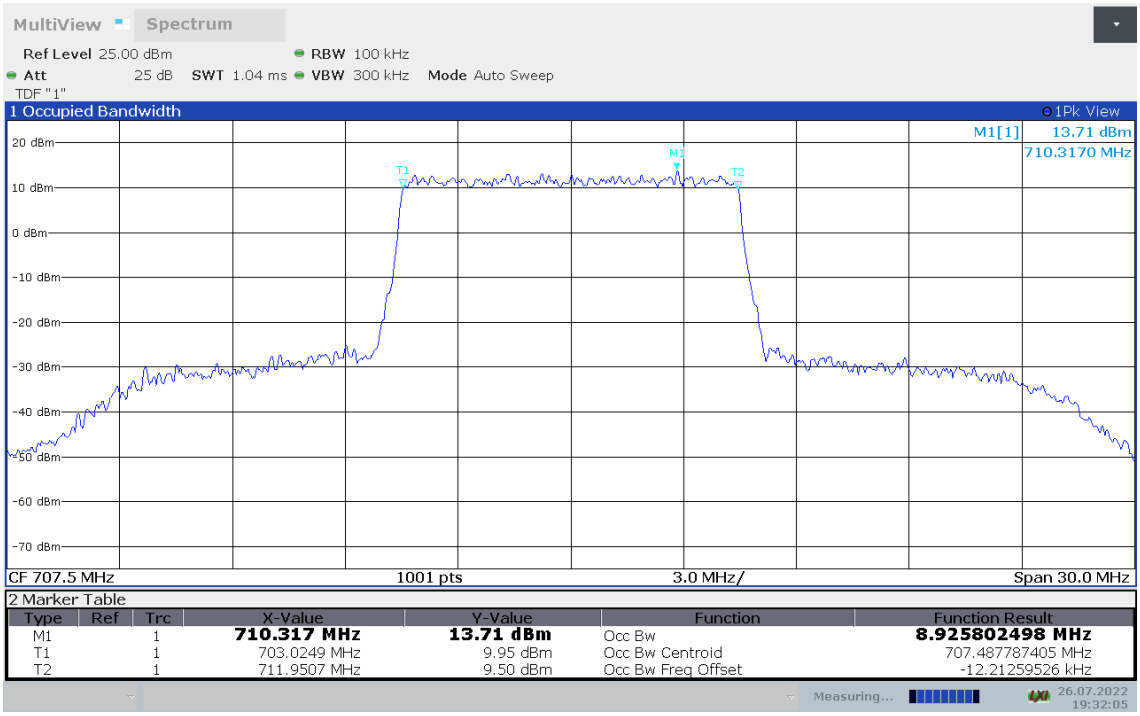
**LTE Band 12, 5MHz Bandwidth, 64QAM (99% BW)**



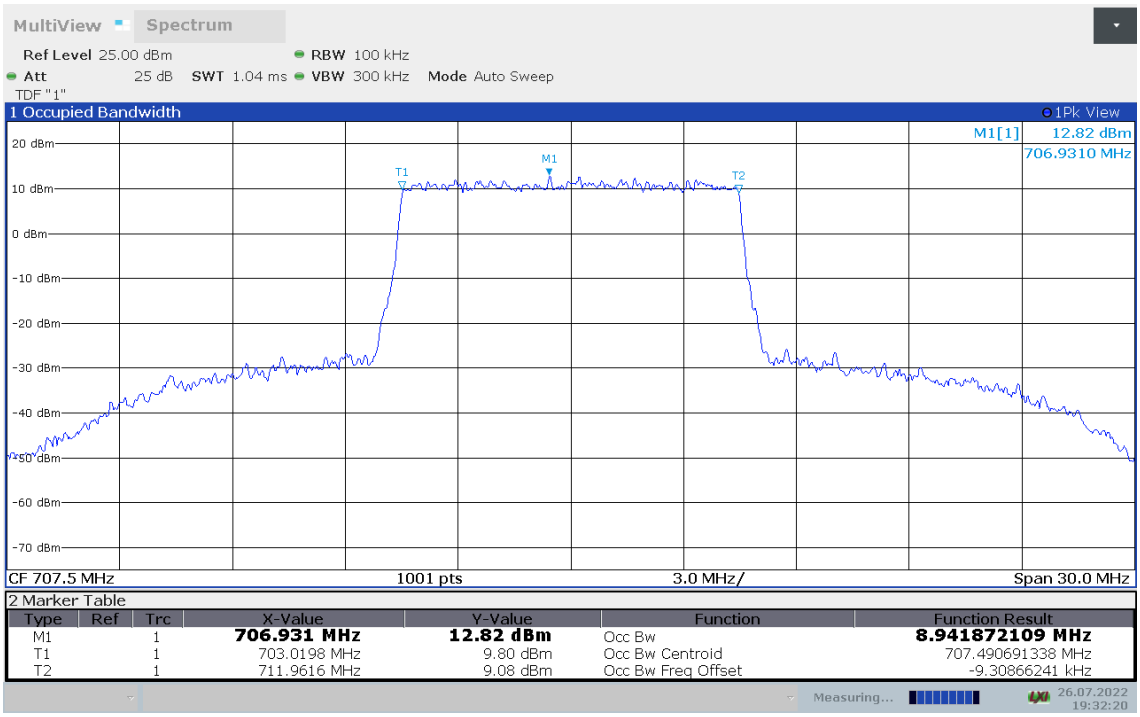
**LTE band 12, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 707.5 | QPSK | 16QAM | 64QAM |
| | 8.926 | 8.942 | 8.944 |

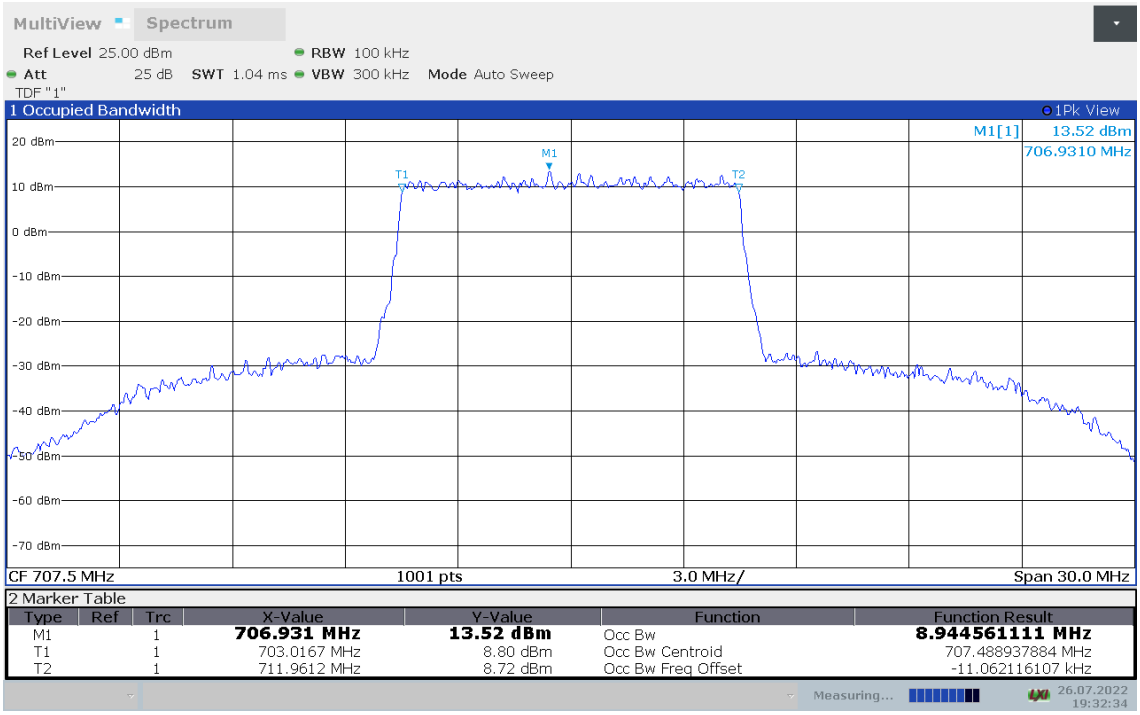
**LTE band 12, 10MHz Bandwidth, QPSK (99% BW)**




**LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)**



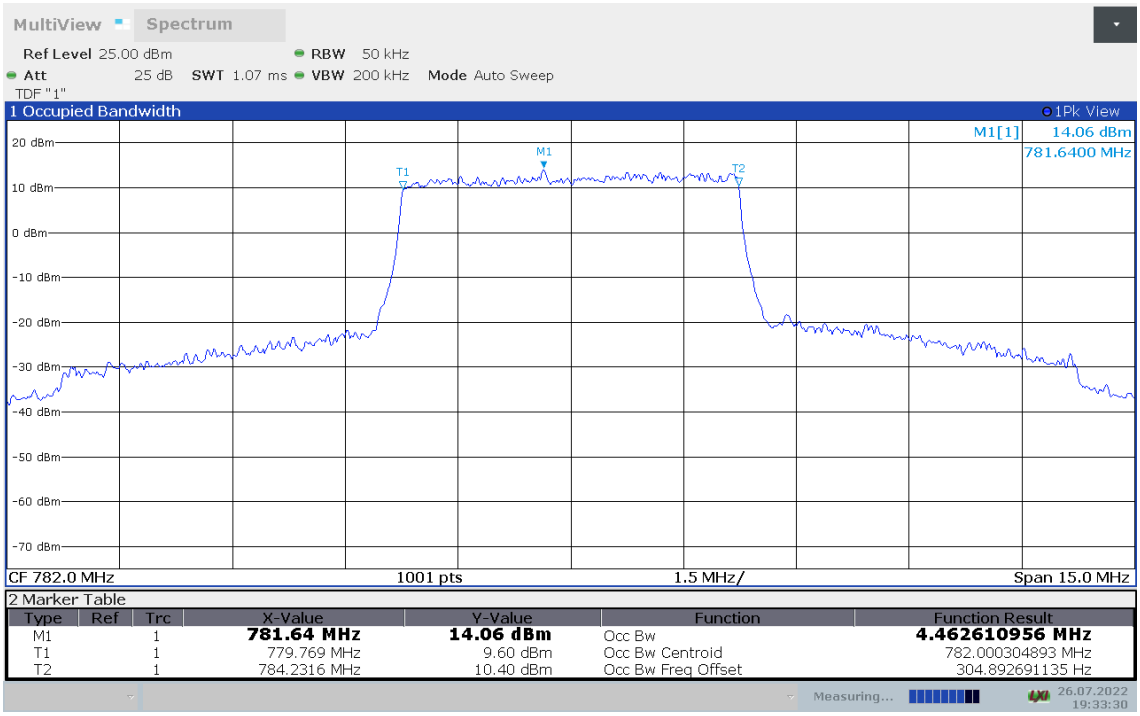
**LTE Band 12, 10MHz Bandwidth, 64QAM (99% BW)**



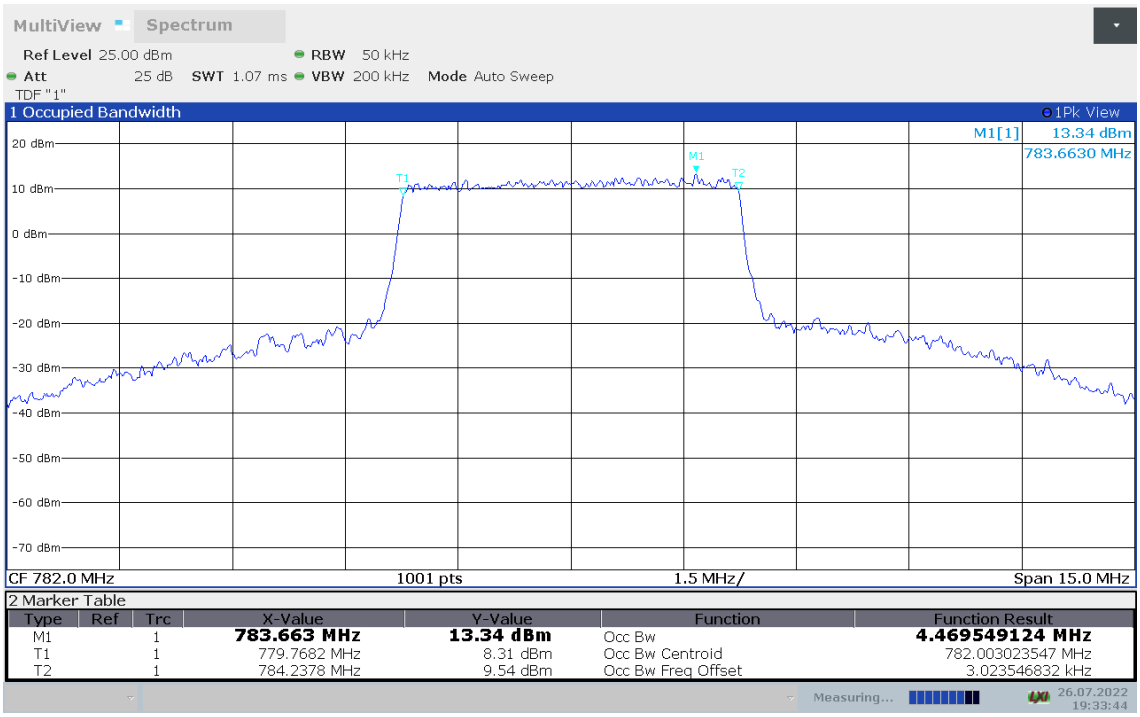
**LTE band 13, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 782.0 | QPSK | 16QAM | 64QAM |
| | 4.463 | 4.470 | 4.468 |

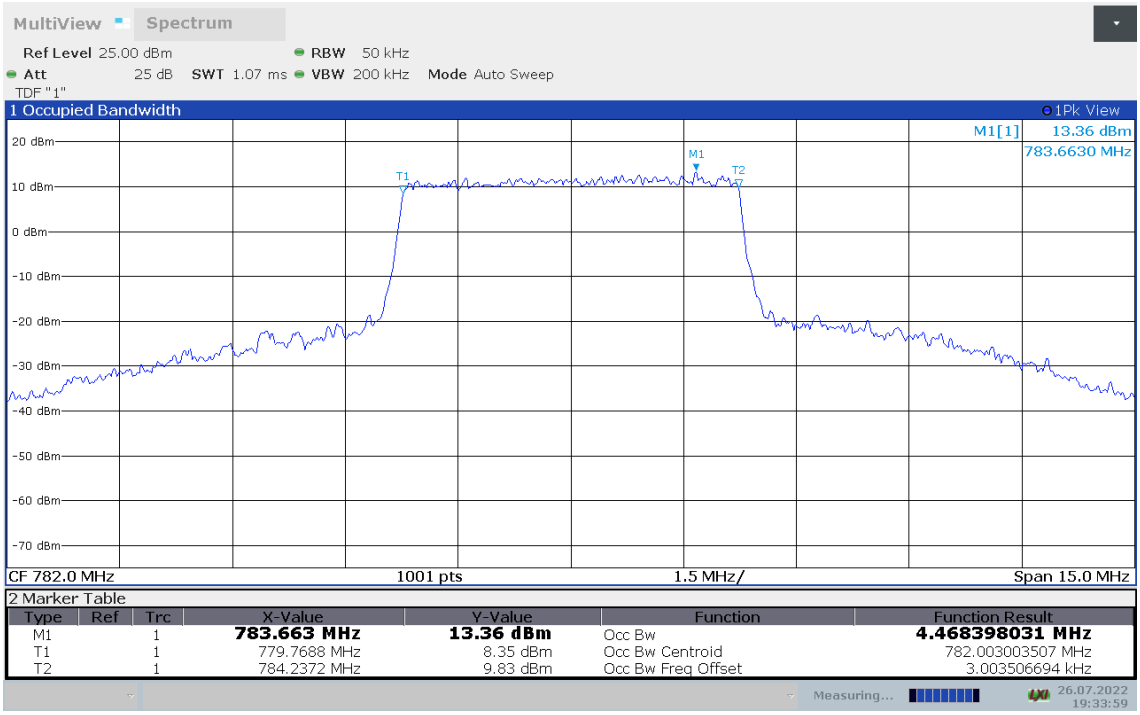
**LTE band 13, 5MHz Bandwidth, QPSK (99% BW)**




**LTE band 13, 5MHz Bandwidth,16QAM (99% BW)**



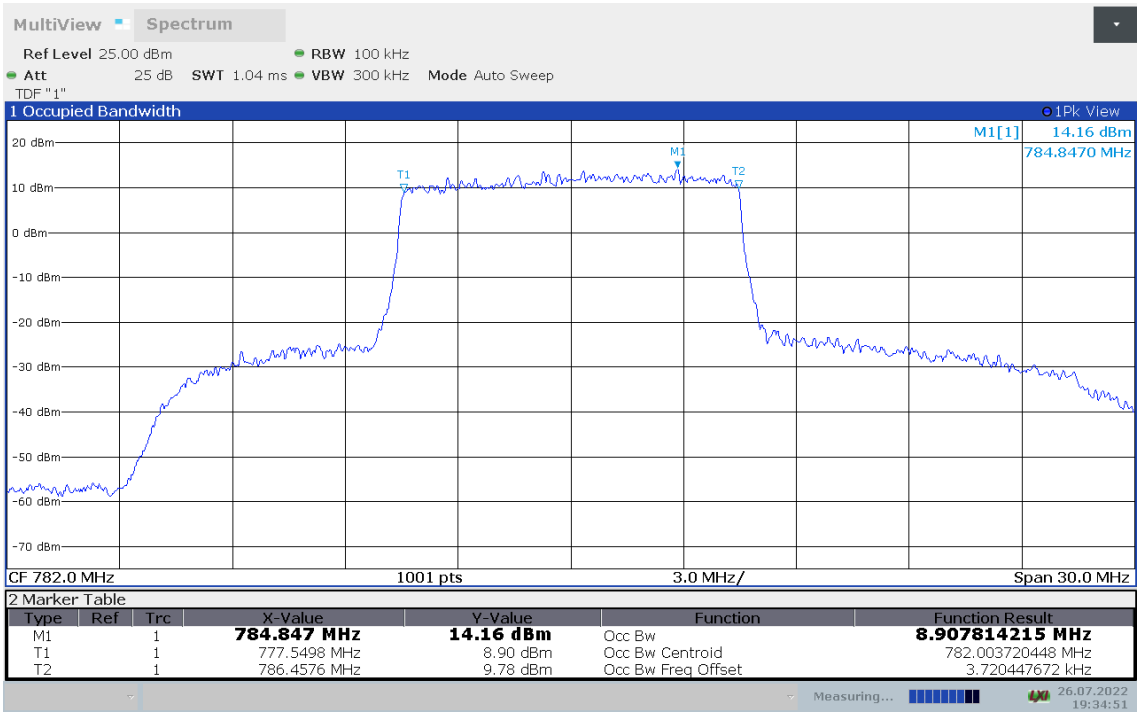
**LTE Band 13, 5MHz Bandwidth, 64QAM (99% BW)**



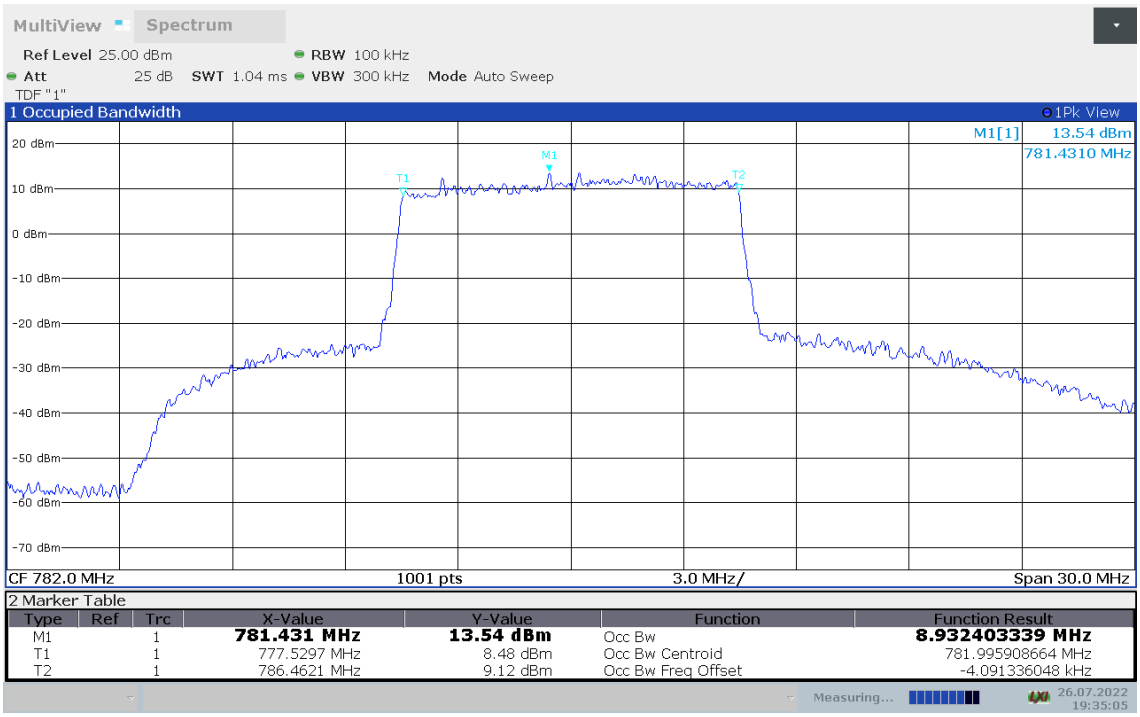
**LTE band 13, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 782.0 | QPSK | 16QAM | 64QAM |
| | 8.908 | 8.932 | 8.926 |

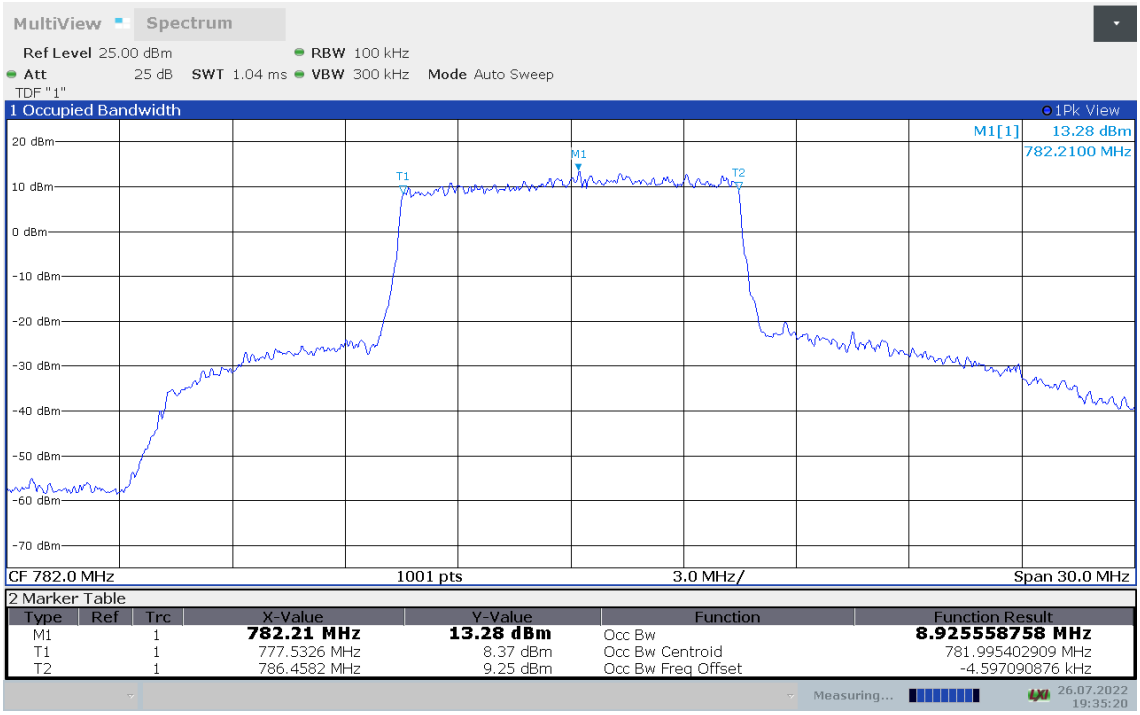
**LTE band 13, 10MHz Bandwidth, QPSK (99% BW)**




**LTE band 13, 10MHz Bandwidth, 16QAM (99% BW)**



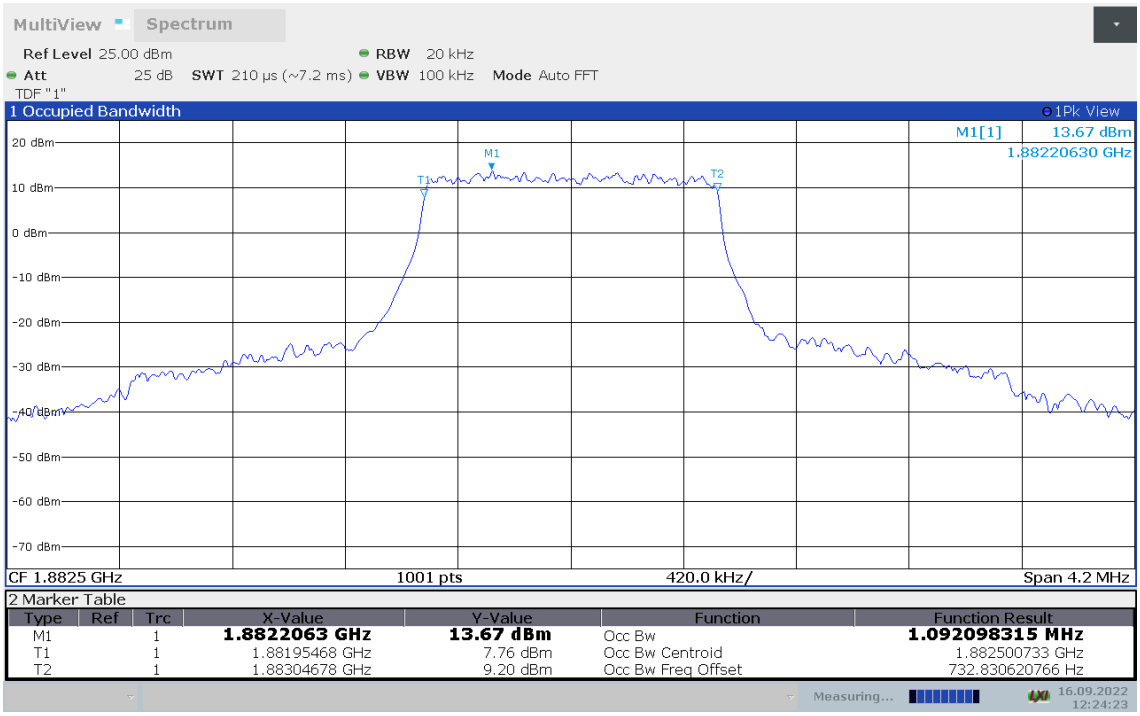
**LTE Band 13, 10MHz Bandwidth, 64QAM (99% BW)**



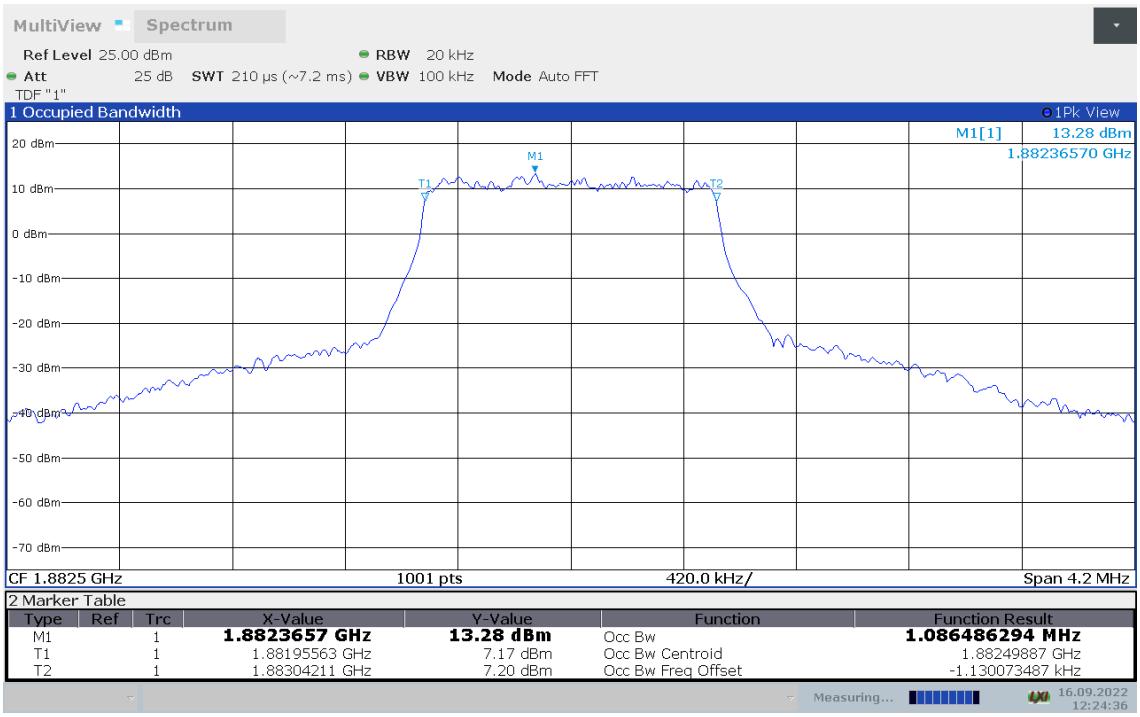
**LTE band 25,1.4MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 1.092 | 1.086 | 1.087 |

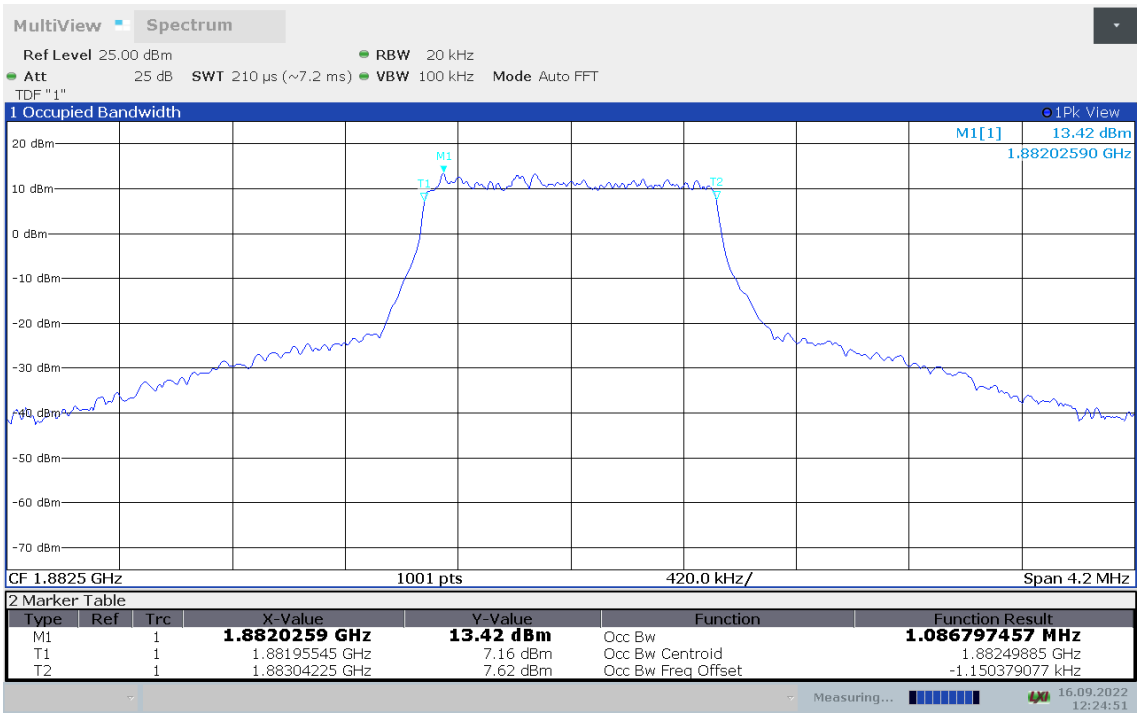
**LTE band 25,1.4MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,1.4MHz Bandwidth, 16QAM (99% BW)**



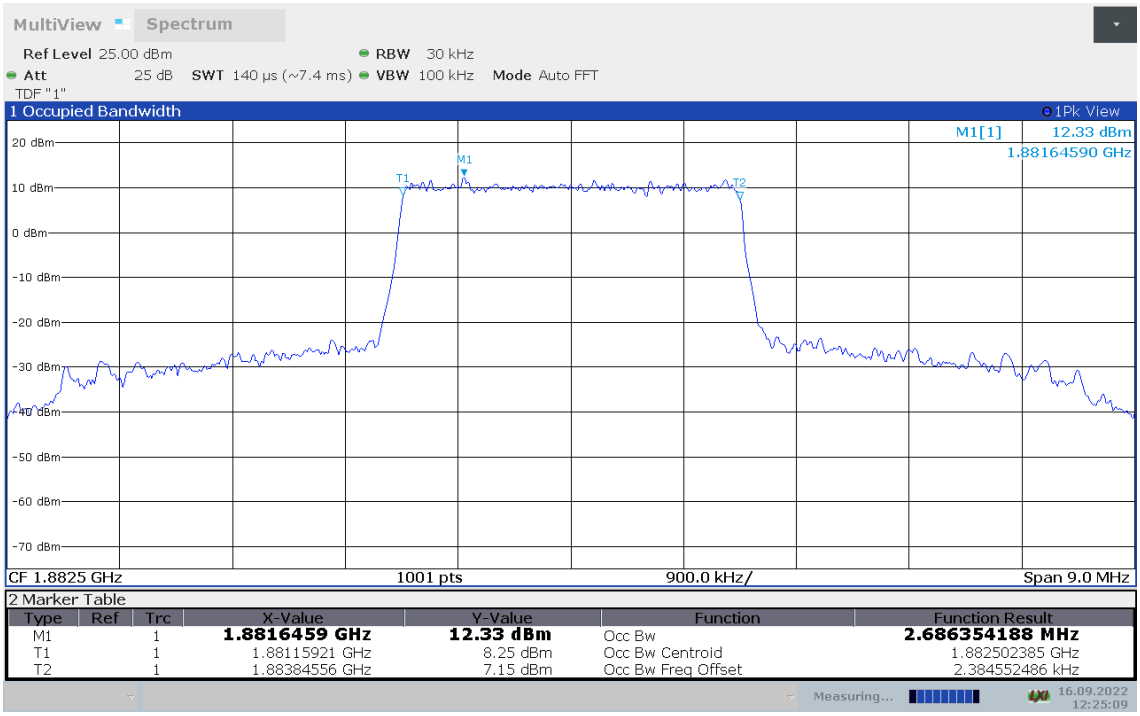
**LTE band 25,1.4MHz Bandwidth, 64QAM (99% BW)**



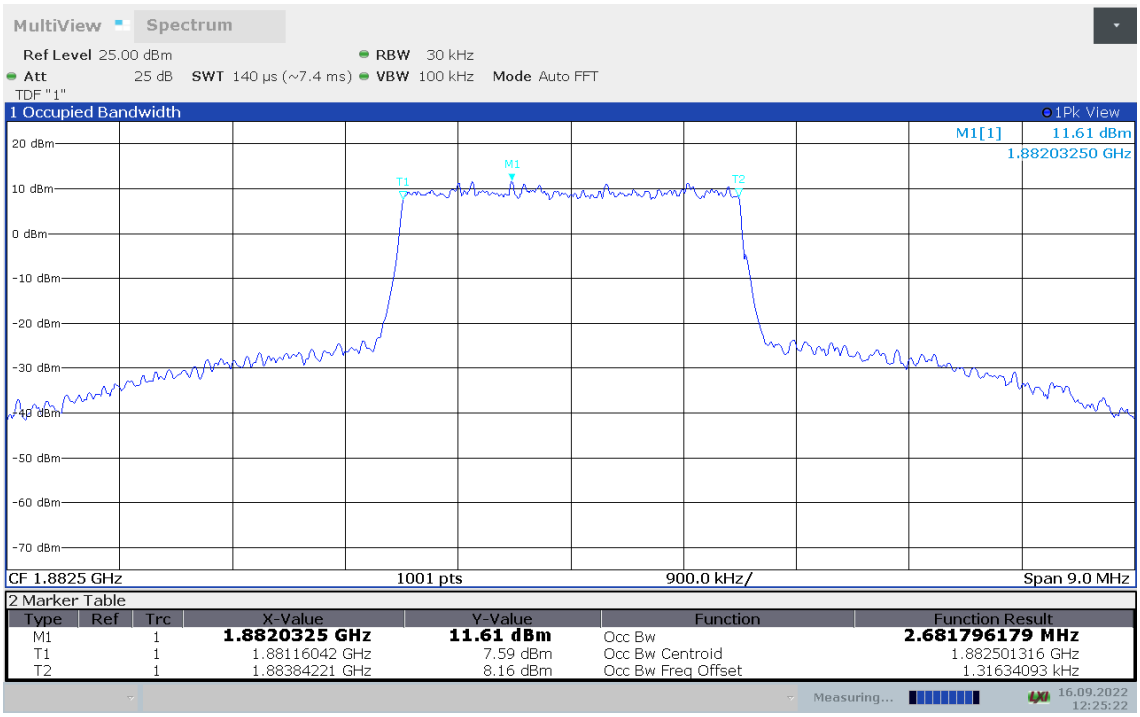
**LTE band 25,3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 2.686 | 2.682 | 2.680 |

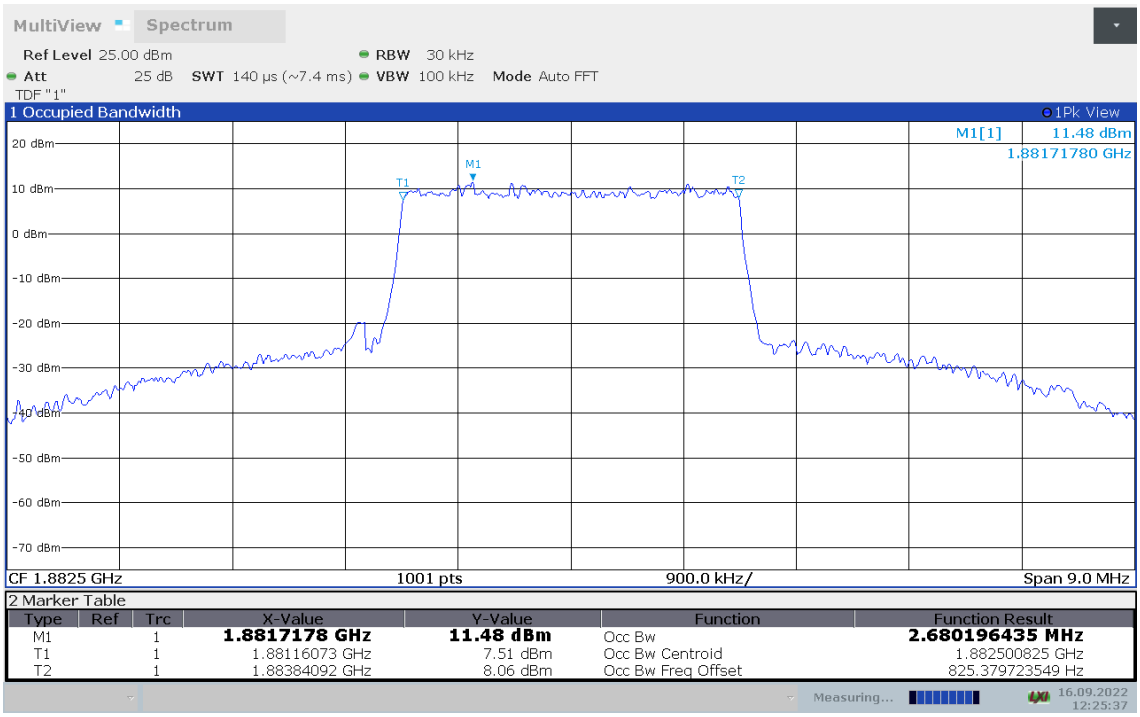
**LTE band 25,3MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,3MHz Bandwidth, 16QAM (99% BW)**



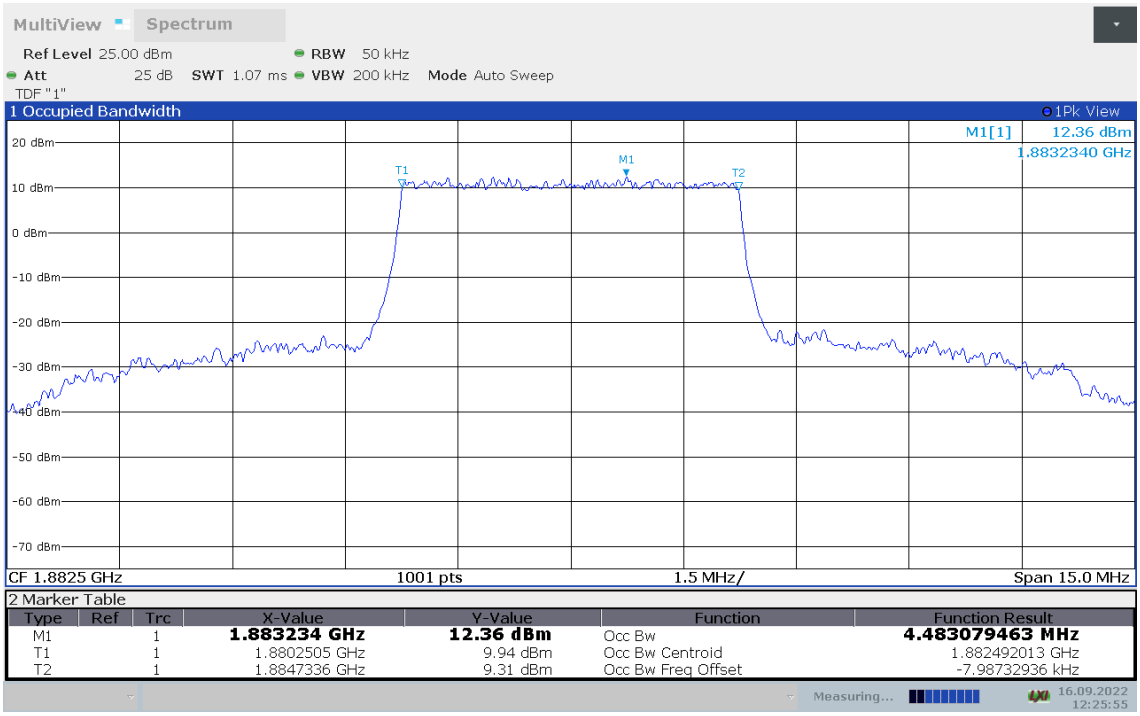
**LTE band 25,3MHz Bandwidth, 64QAM (99% BW)**



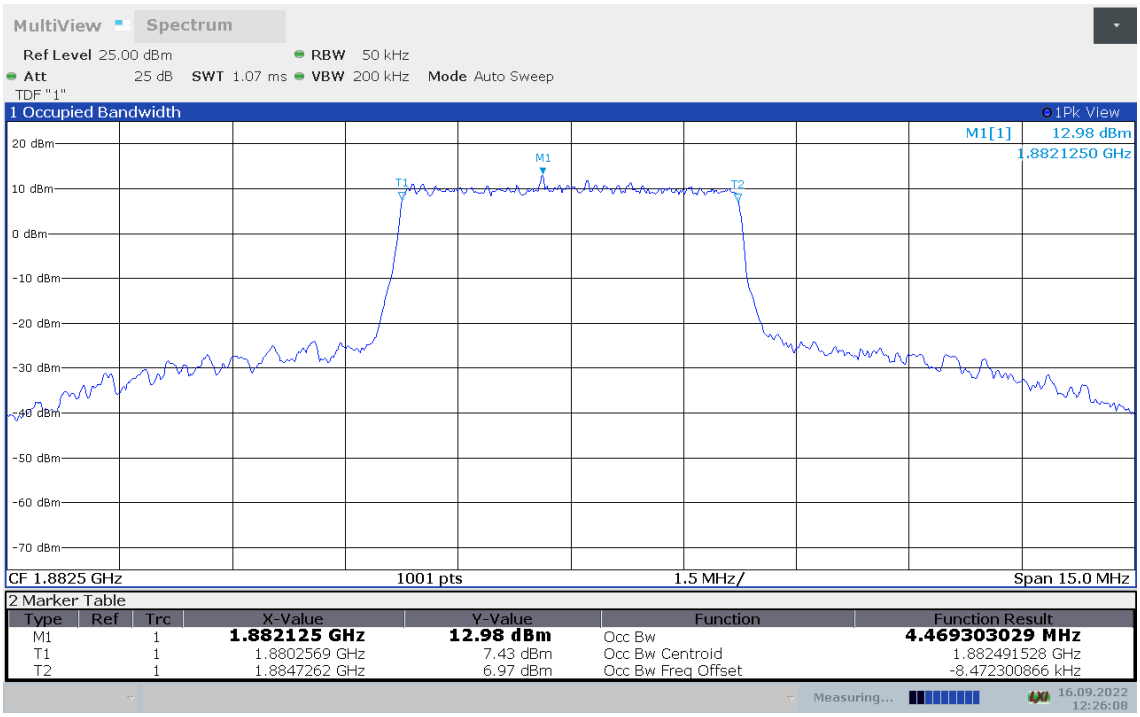
**LTE band 25,5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 4.483 | 4.469 | 4.469 |

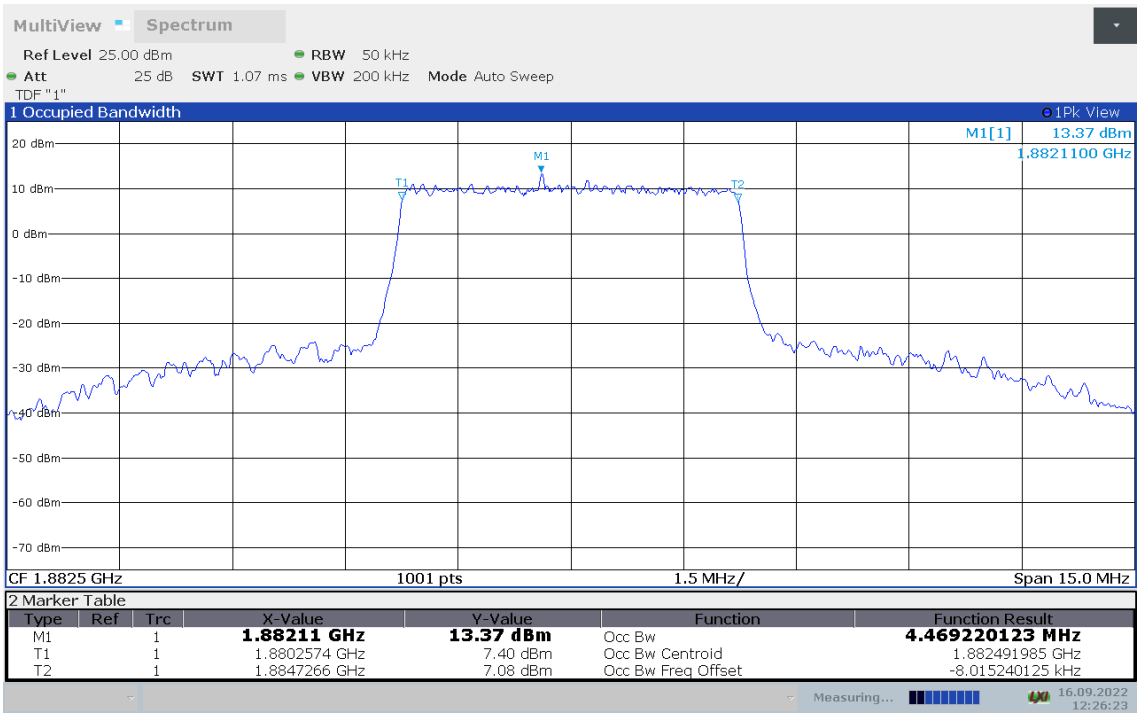
**LTE band 25,5MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,5MHz Bandwidth, 16QAM (99% BW)**



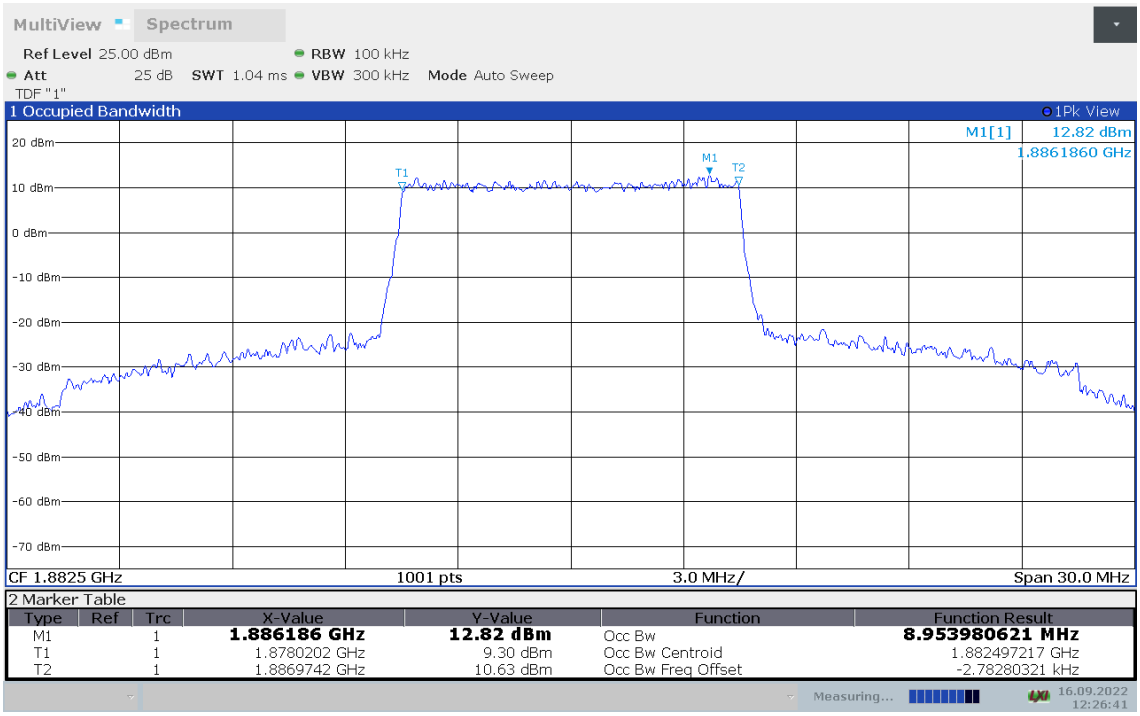
**LTE band 25,5MHz Bandwidth, 64QAM (99% BW)**



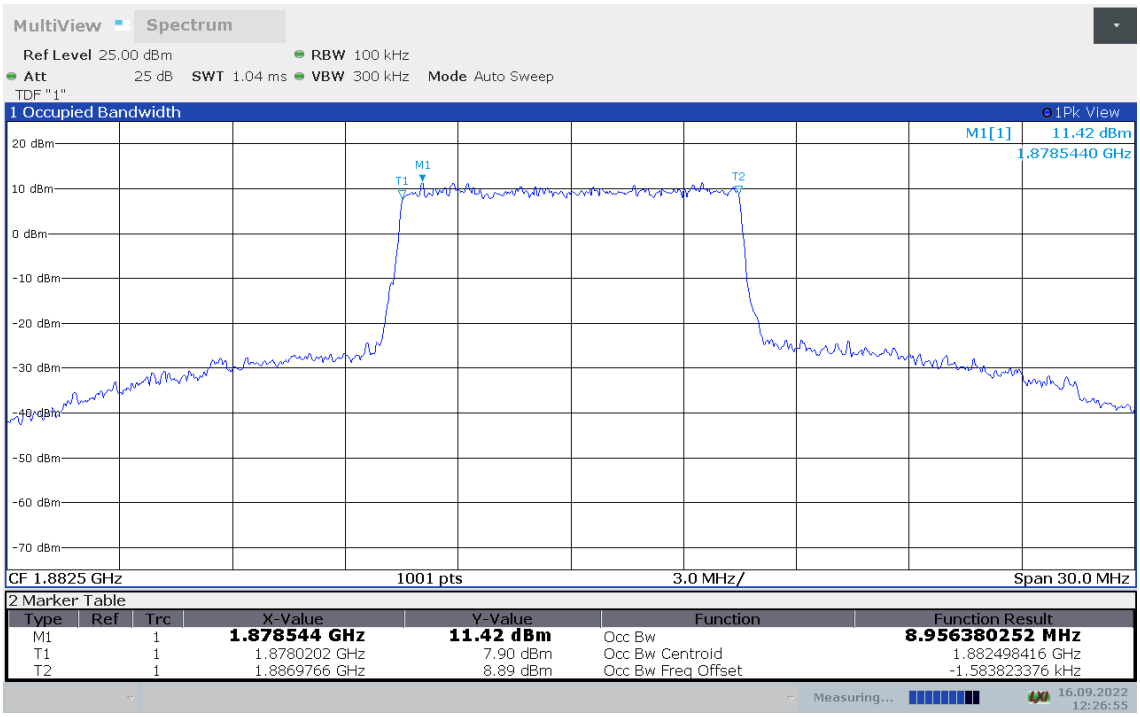
**LTE band 25,10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 8.954 | 8.956 | 8.960 |

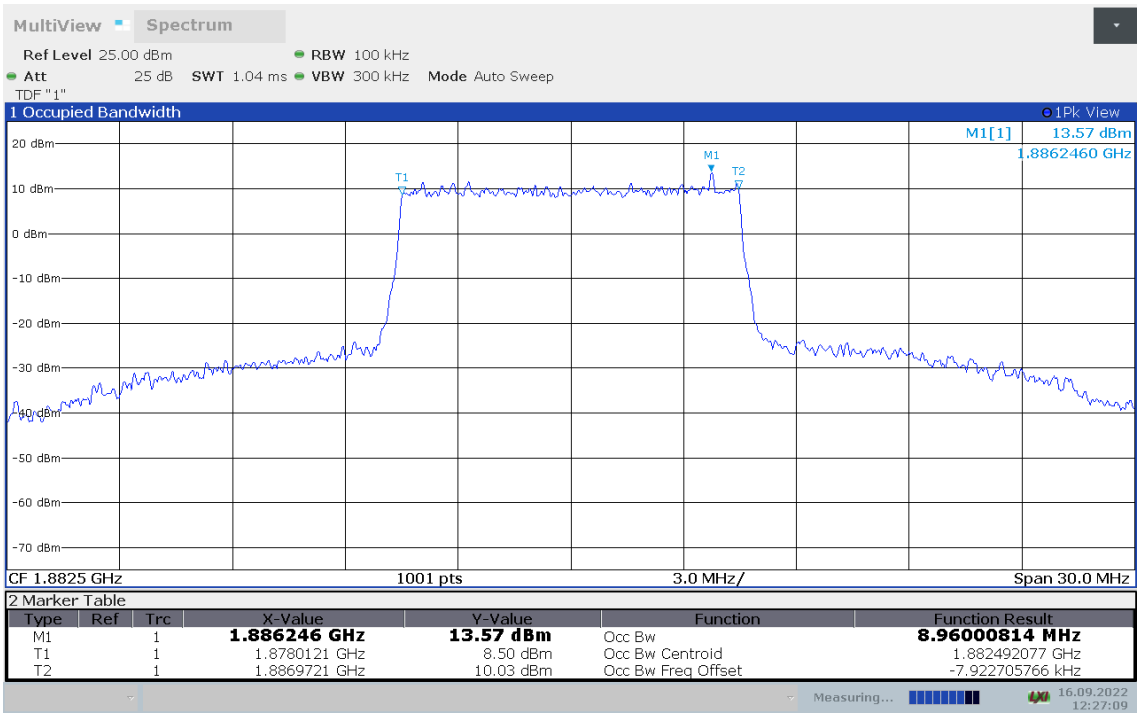
**LTE band 25,10MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,10MHz Bandwidth, 16QAM (99% BW)**



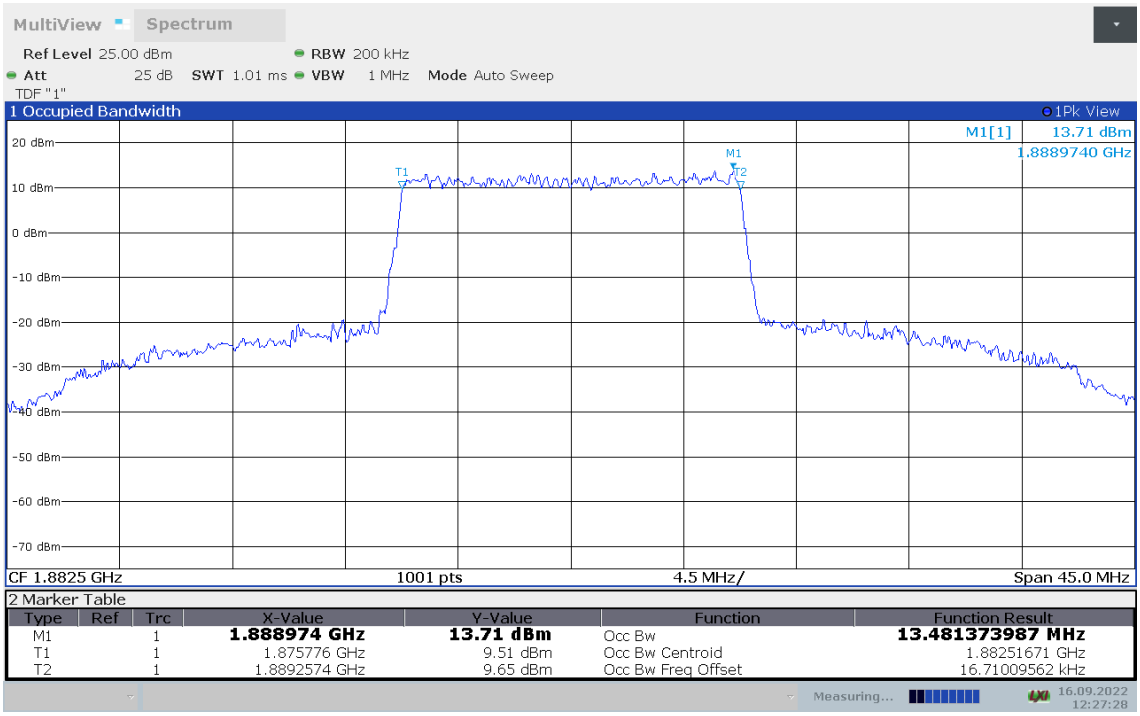
**LTE band 25,10MHz Bandwidth, 64QAM (99% BW)**



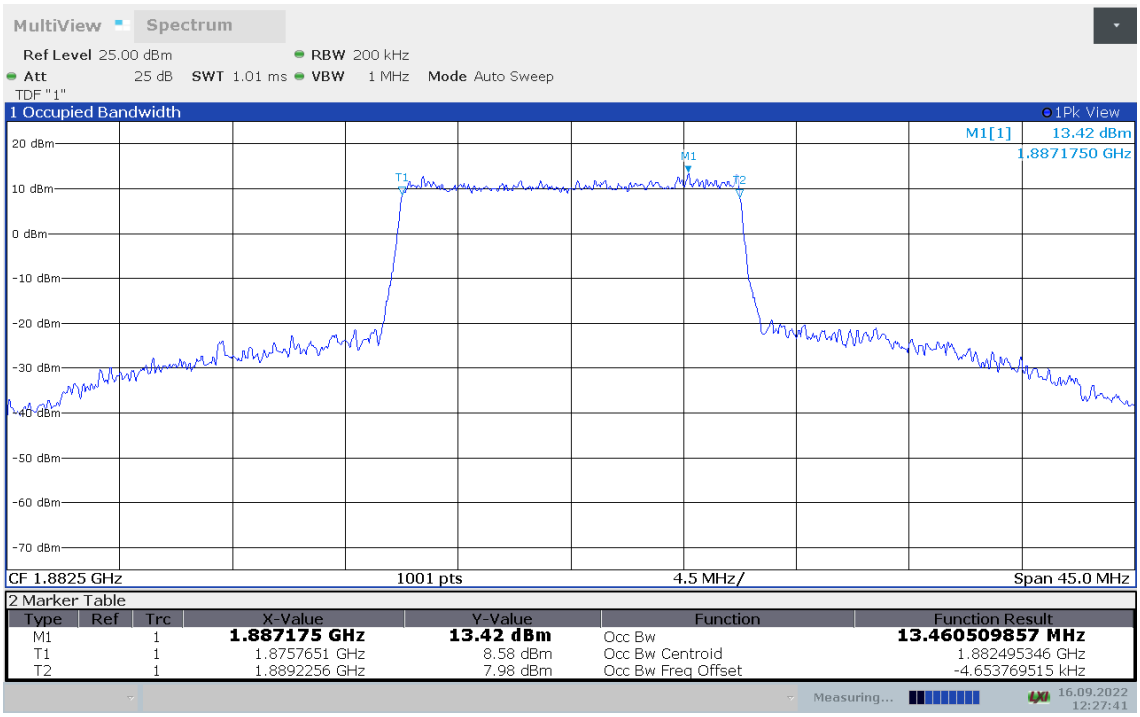
**LTE band 25,15MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 13.481 | 13.461 | 13.464 |

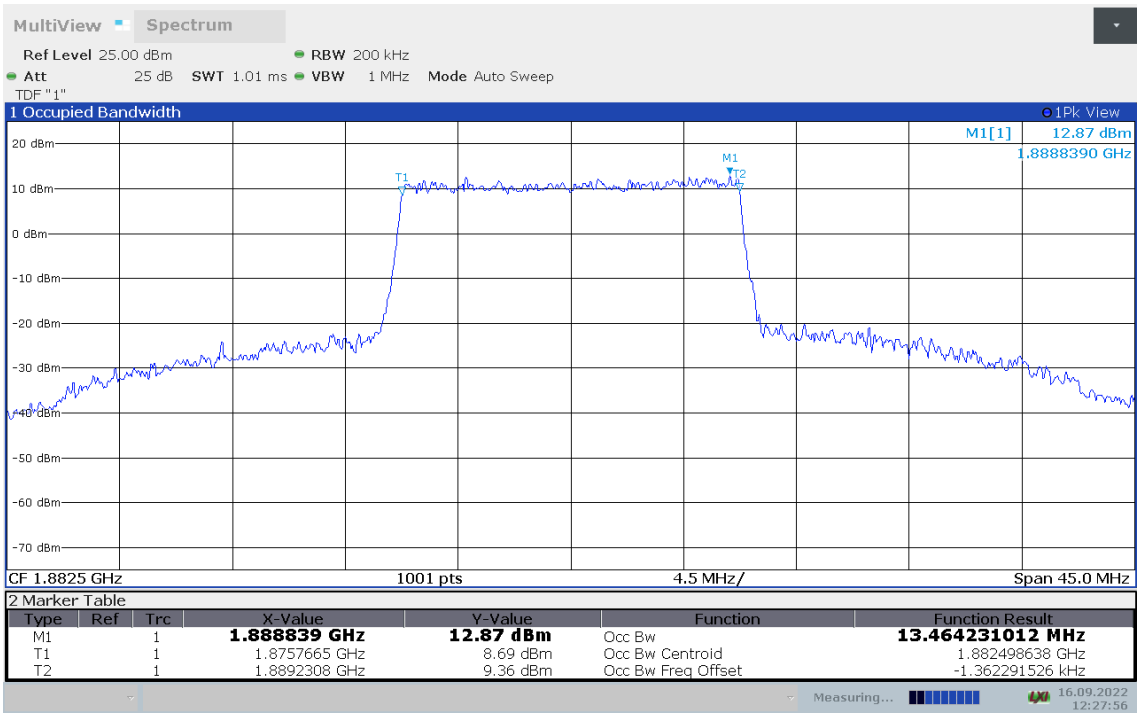
**LTE band 25,15MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,15MHz Bandwidth, 16QAM (99% BW)**



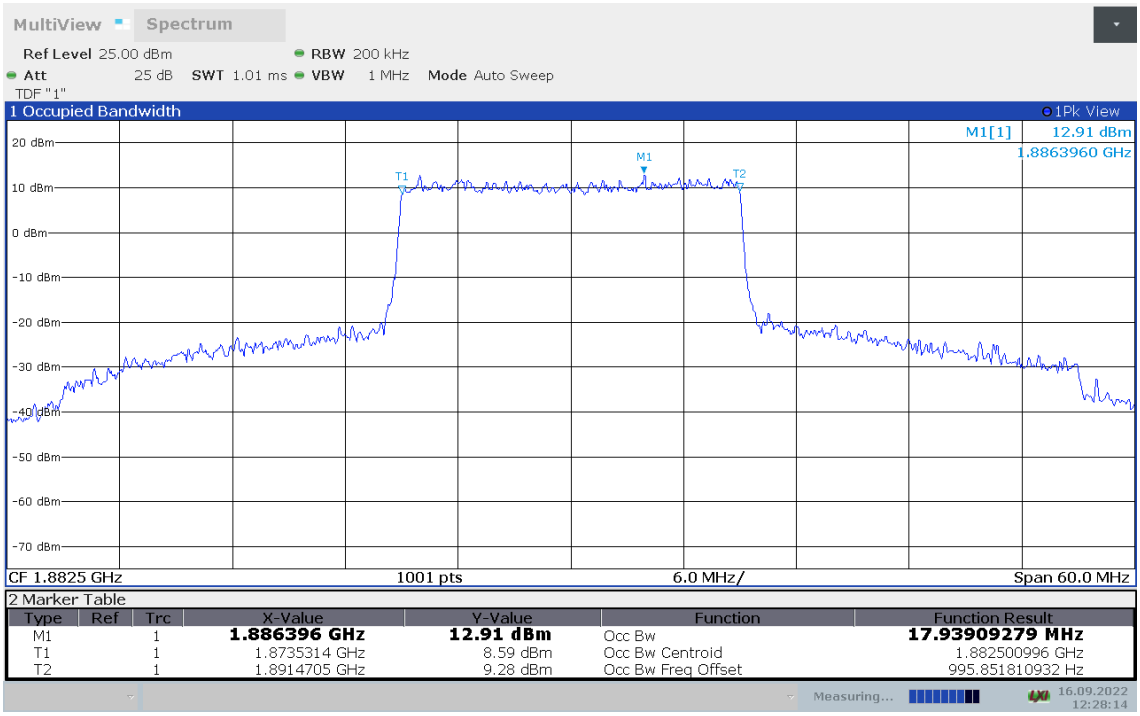
**LTE band 25,15MHz Bandwidth, 64QAM (99% BW)**



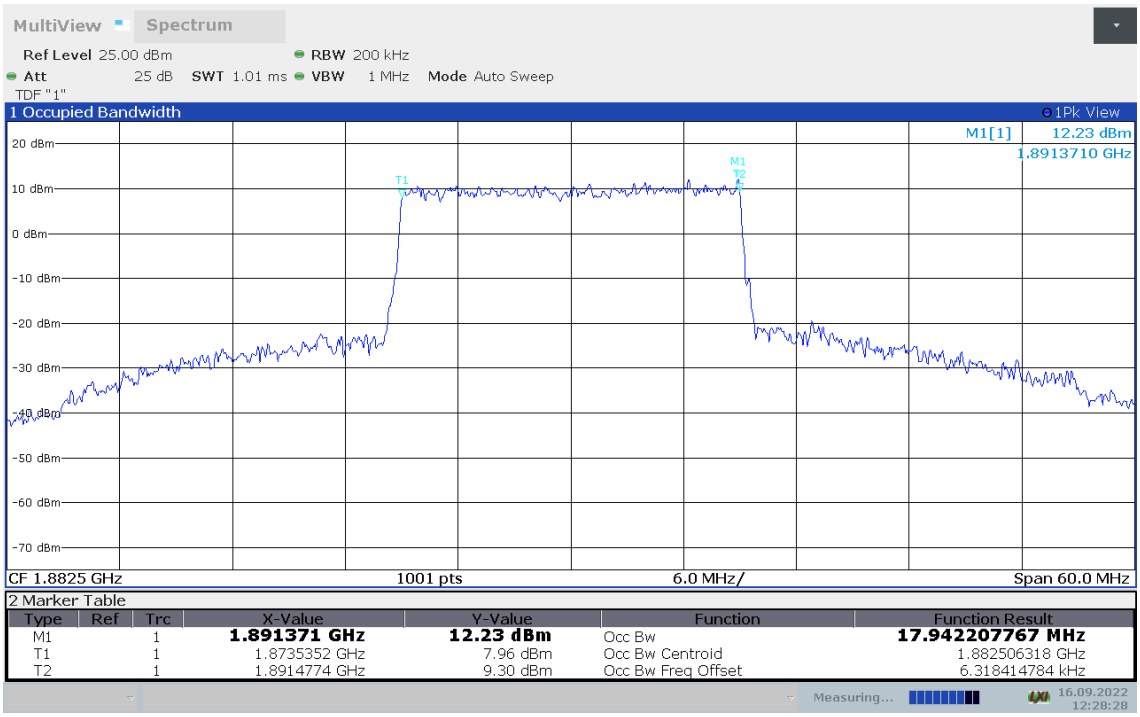
**LTE band 25,20MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 1882.5 | QPSK | 16QAM | 64QAM |
| | 17.939 | 17.942 | 17.918 |

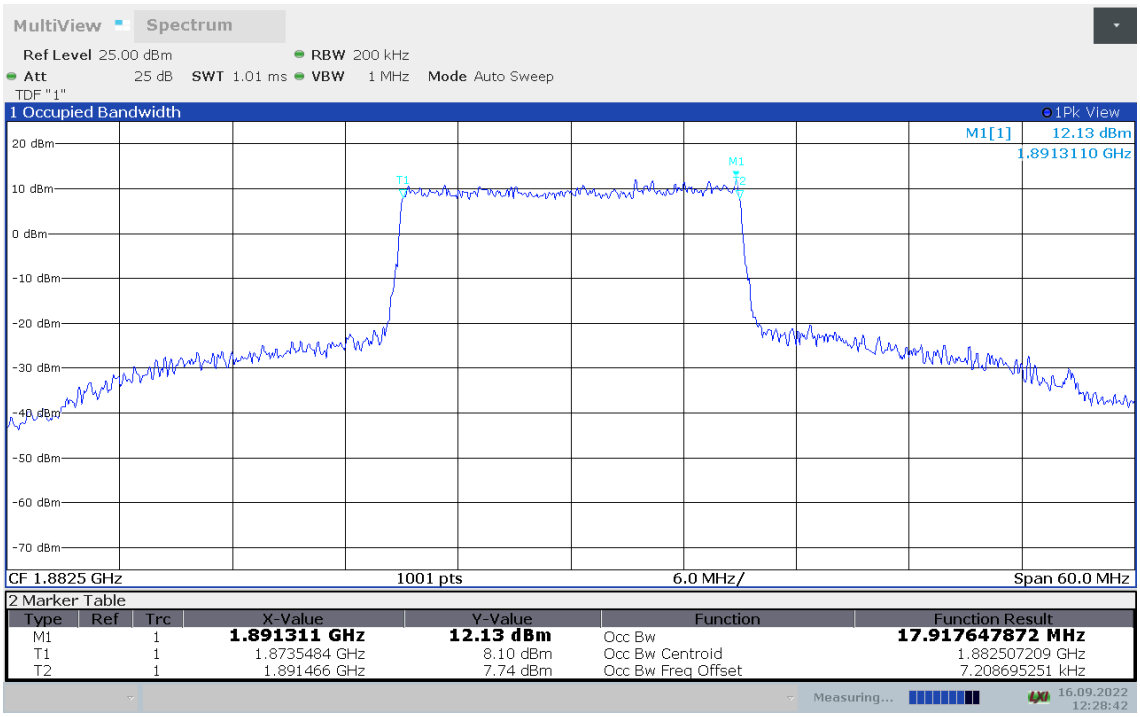
**LTE band 25,20MHz Bandwidth, QPSK (99% BW)**




**LTE band 25,20MHz Bandwidth, 16QAM (99% BW)**



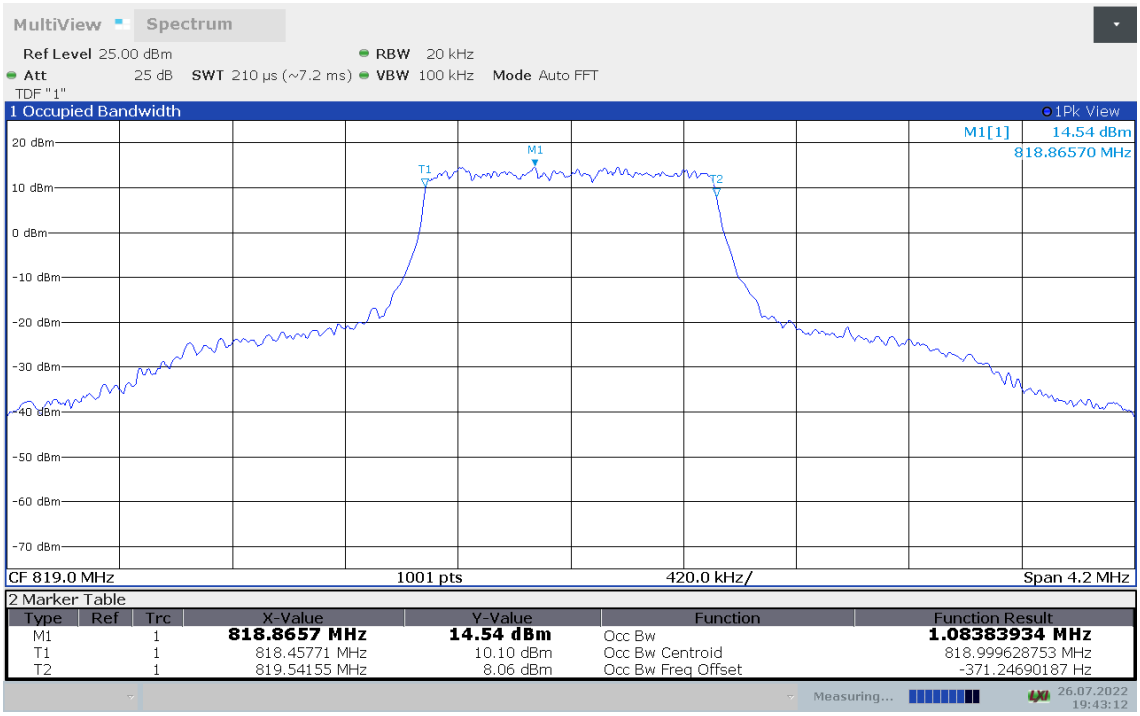
**LTE band 25,20MHz Bandwidth, 64QAM (99% BW)**



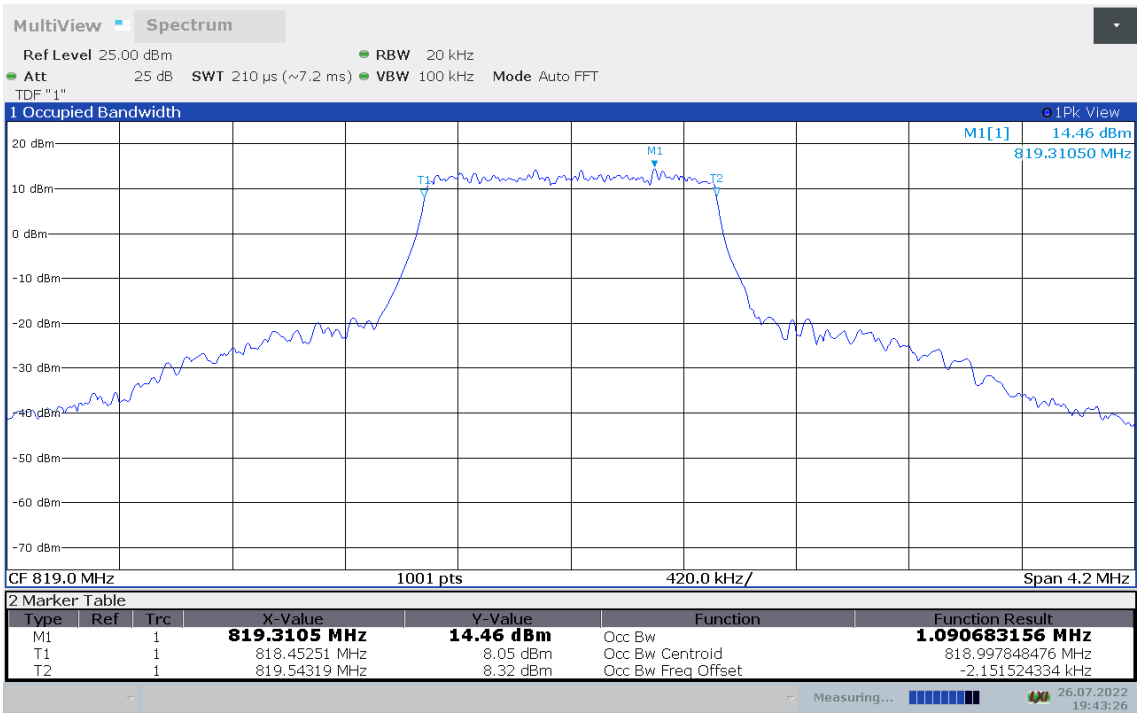
**LTE band 26(814MHz-824MHz ), 1.4MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 819.0 | QPSK | 16QAM | 64QAM |
| | 1.084 | 1.091 | 1.091 |

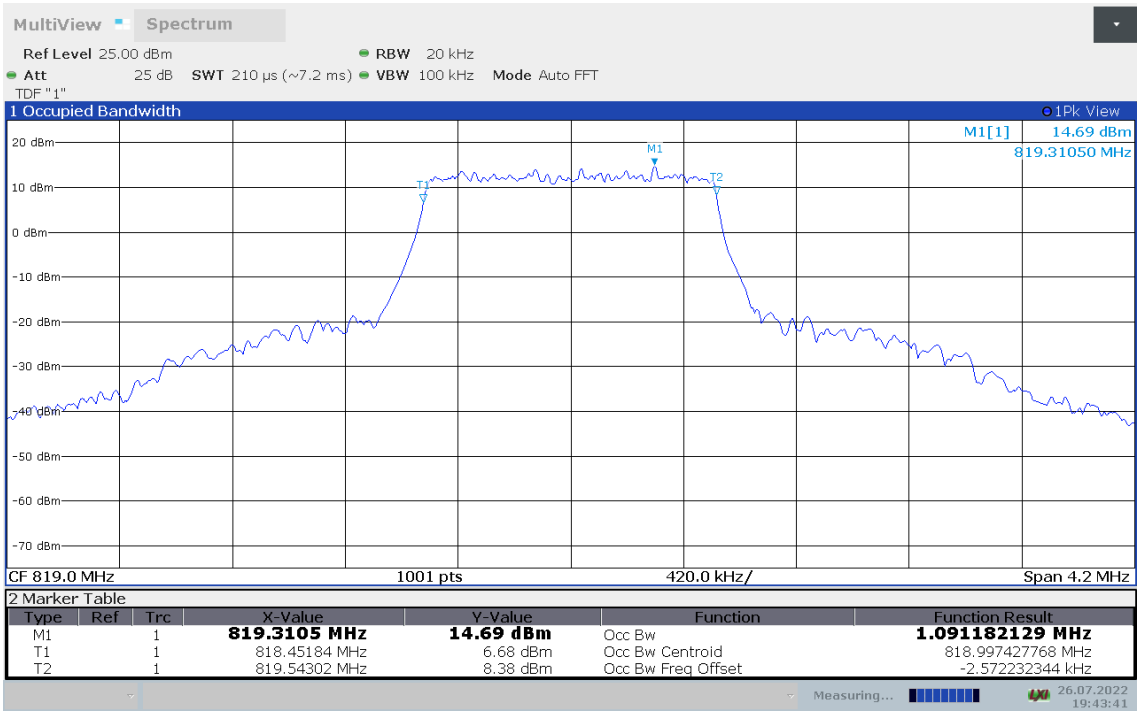
**LTE band 26(814MHz-824MHz), 1.4MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(814MHz-824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)**



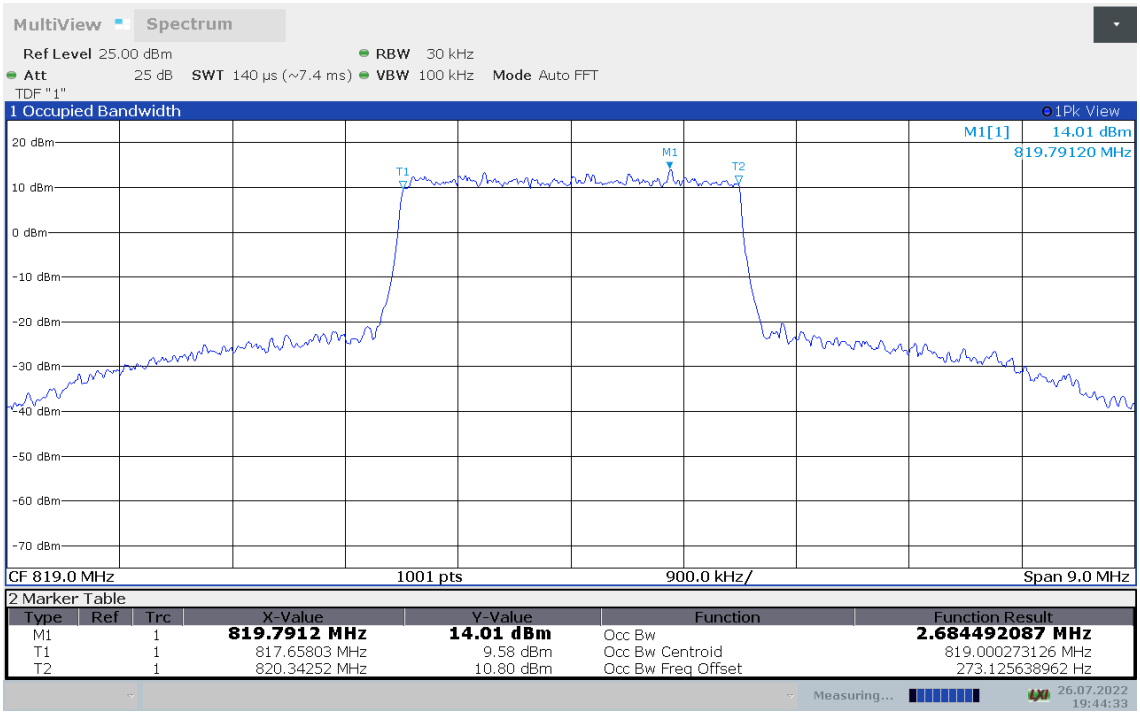
**LTE Band 26(814MHz-824MHz), 1.4MHz Bandwidth, 64QAM (99% BW)**



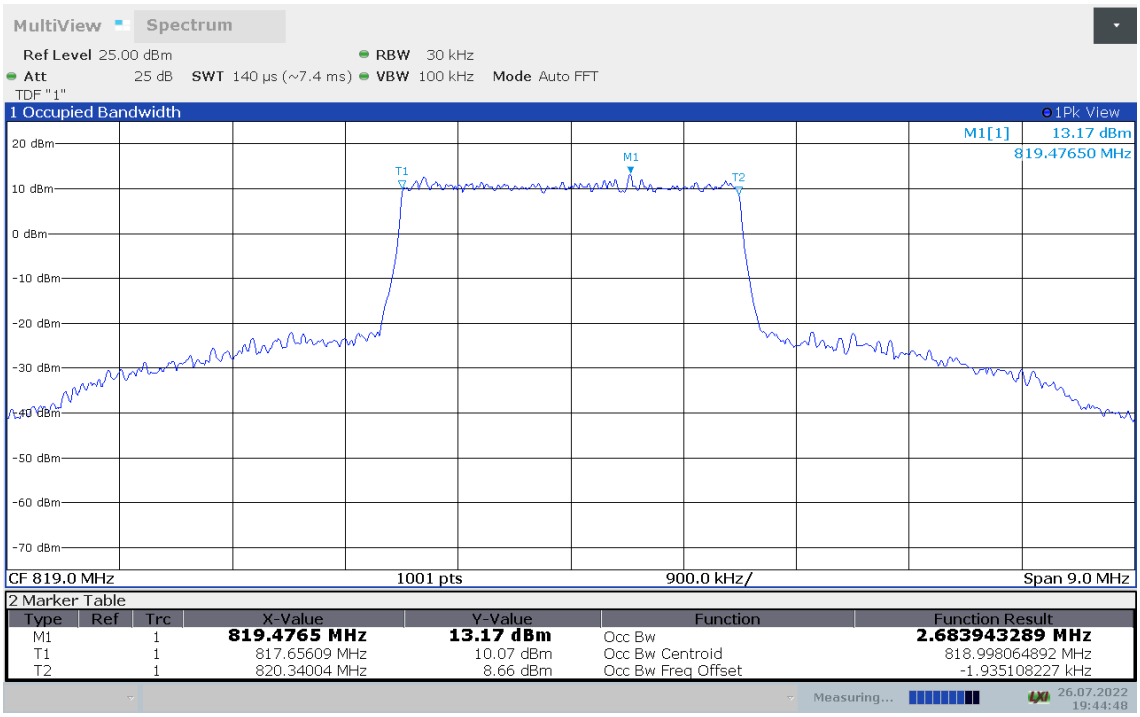
**LTE band 26(814MHz-824MHz), 3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 819.0 | QPSK | 16QAM | 64QAM |
| | 2.684 | 2.684 | 2.683 |

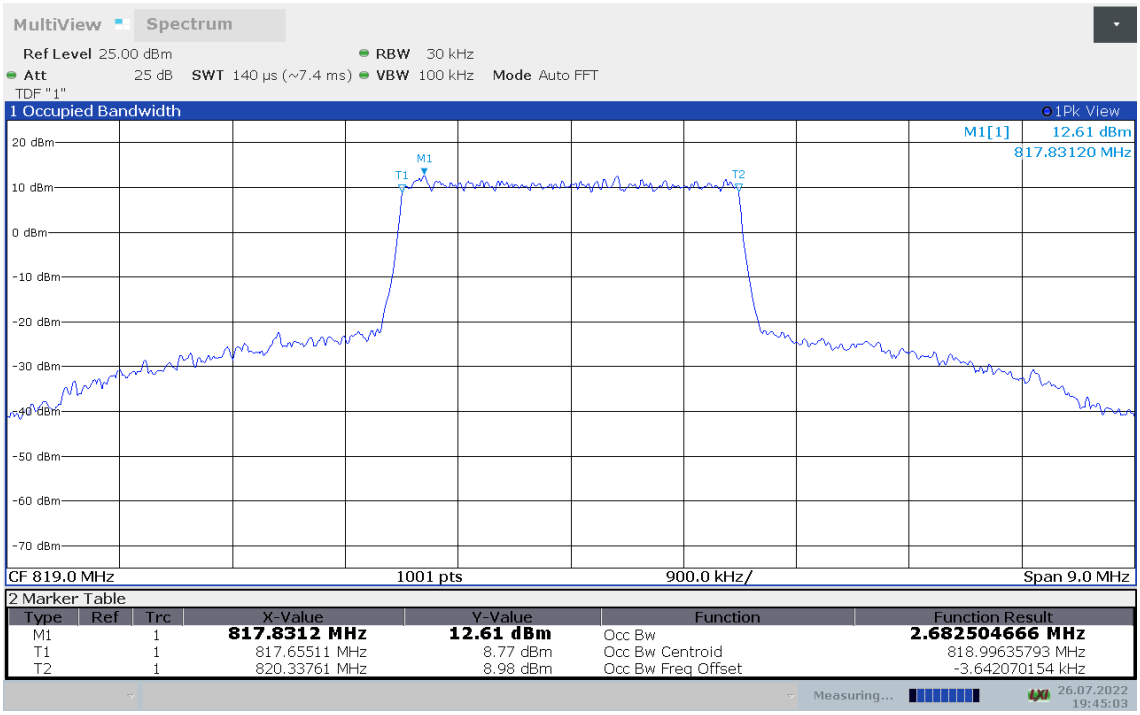
**LTE band 26(814MHz-824MHz), 3MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(814MHz-824MHz), 3MHz Bandwidth, 16QAM (99% BW)**



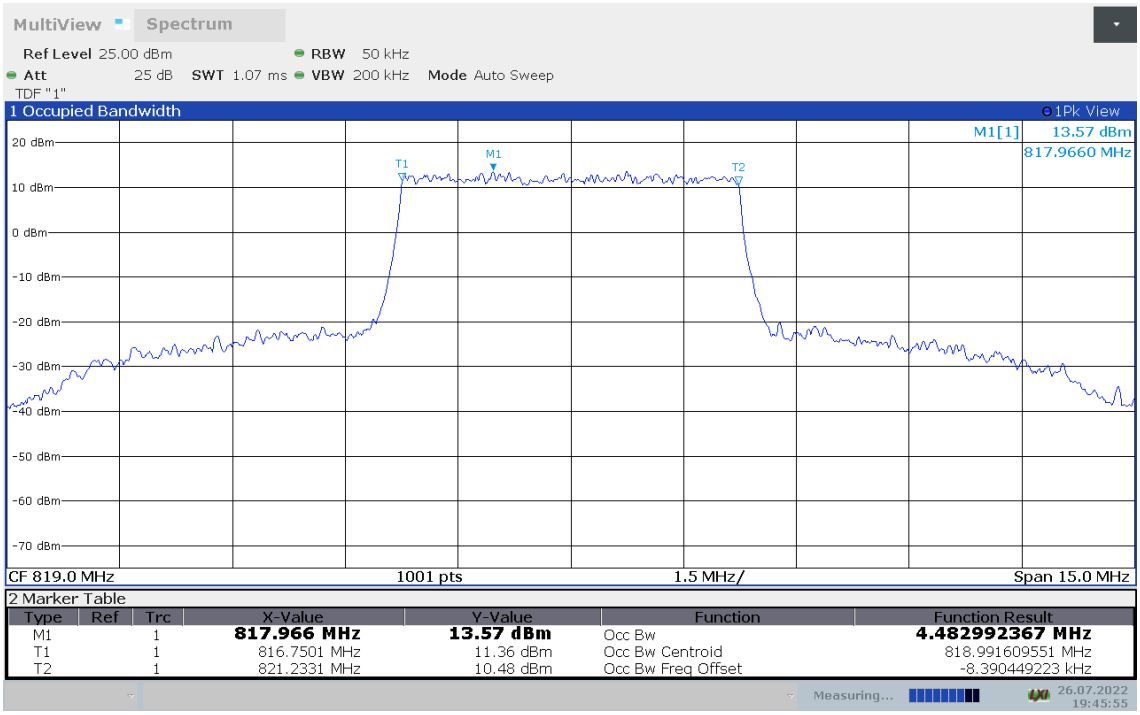
**LTE Band 26(814MHz-824MHz), 3MHz Bandwidth, 64QAM (99% BW)**



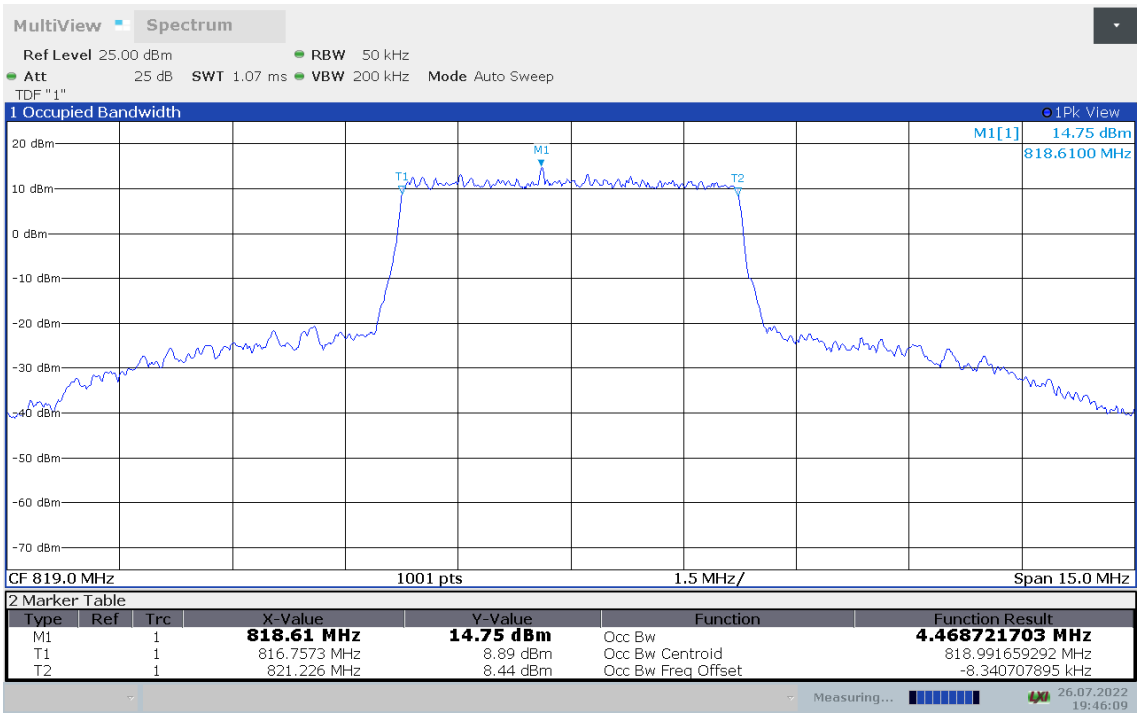
**LTE band 26(814MHz-824MHz), 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 819.0 | QPSK | 16QAM | 64QAM |
| | 4.483 | 4.469 | 4.468 |

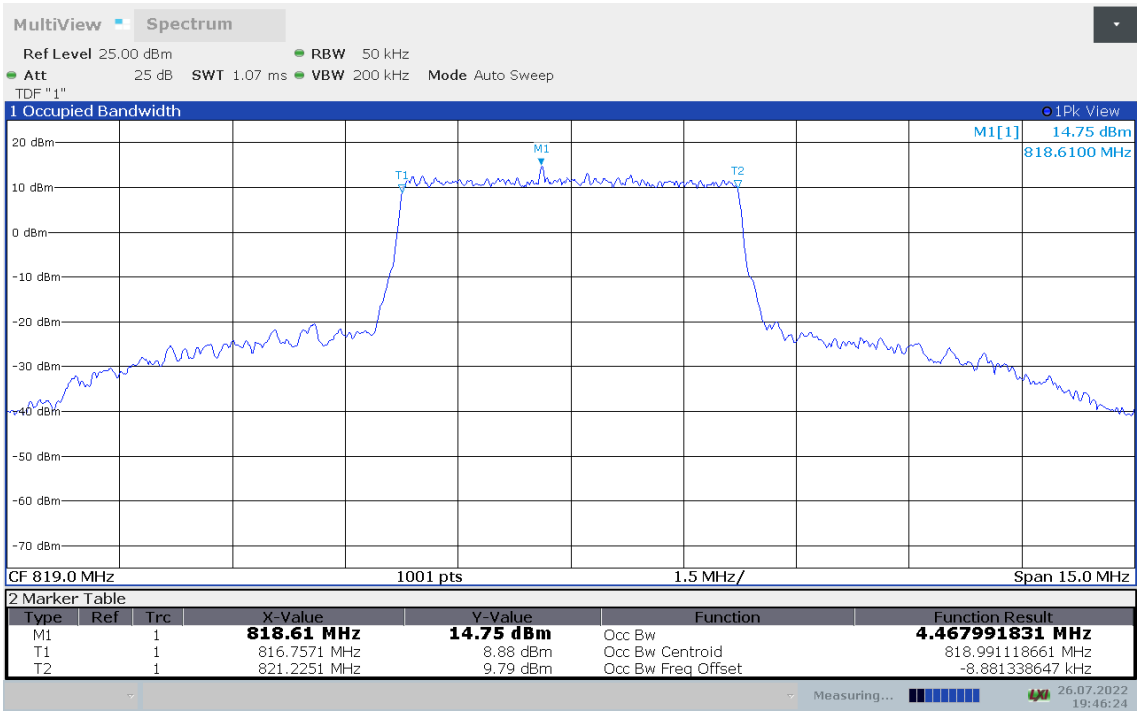
**LTE band 26(814MHz-824MHz), 5MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(814MHz-824MHz), 5MHz Bandwidth,16QAM (99% BW)**



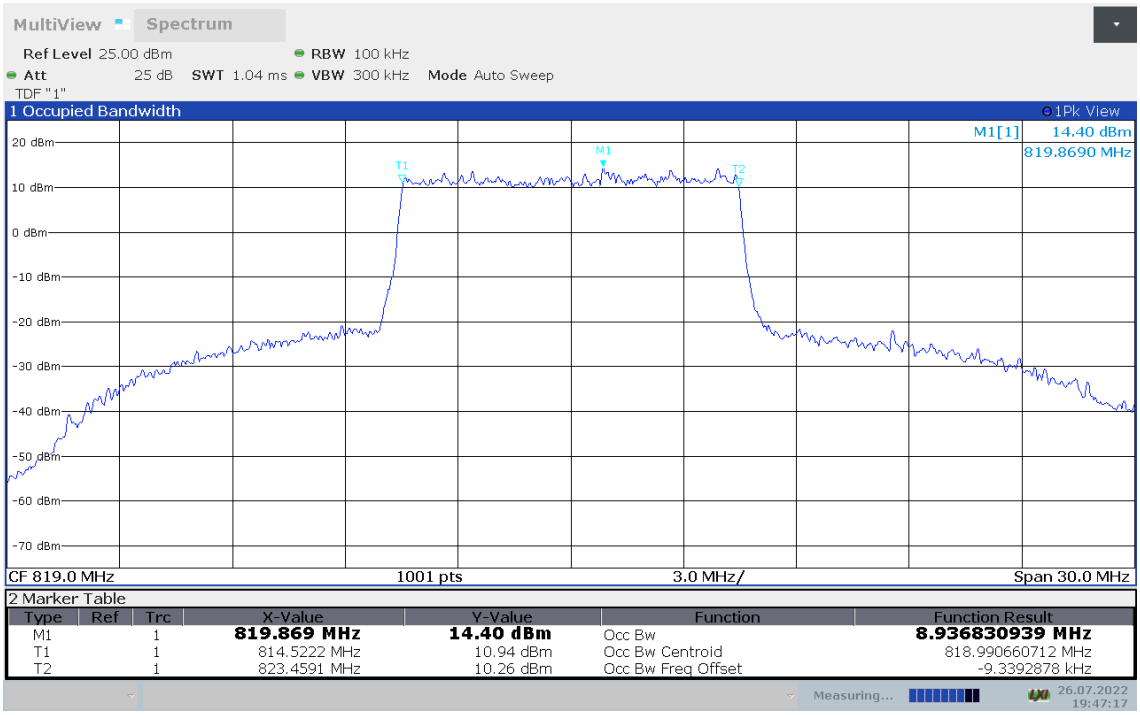
**LTE Band 26(814MHz-824MHz), 5MHz Bandwidth,64QAM (99% BW)**



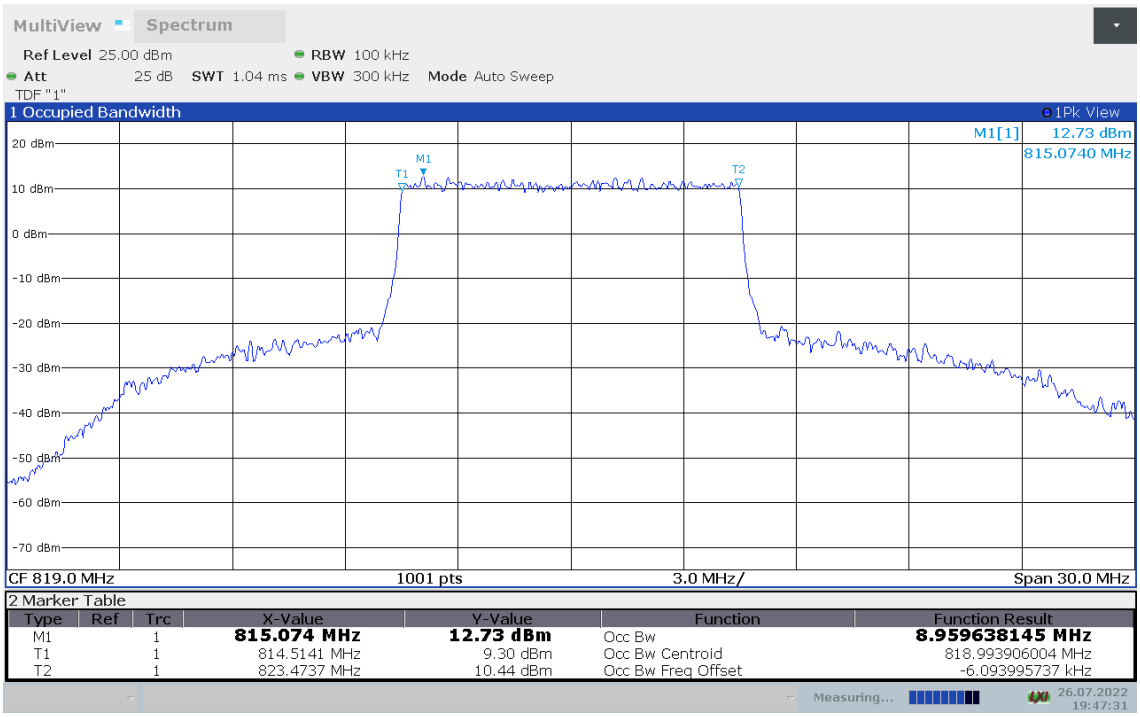
**LTE band 26(814MHz-824MHz), 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 819.0 | QPSK | 16QAM | 64QAM |
| | 8.937 | 8.960 | 8.951 |

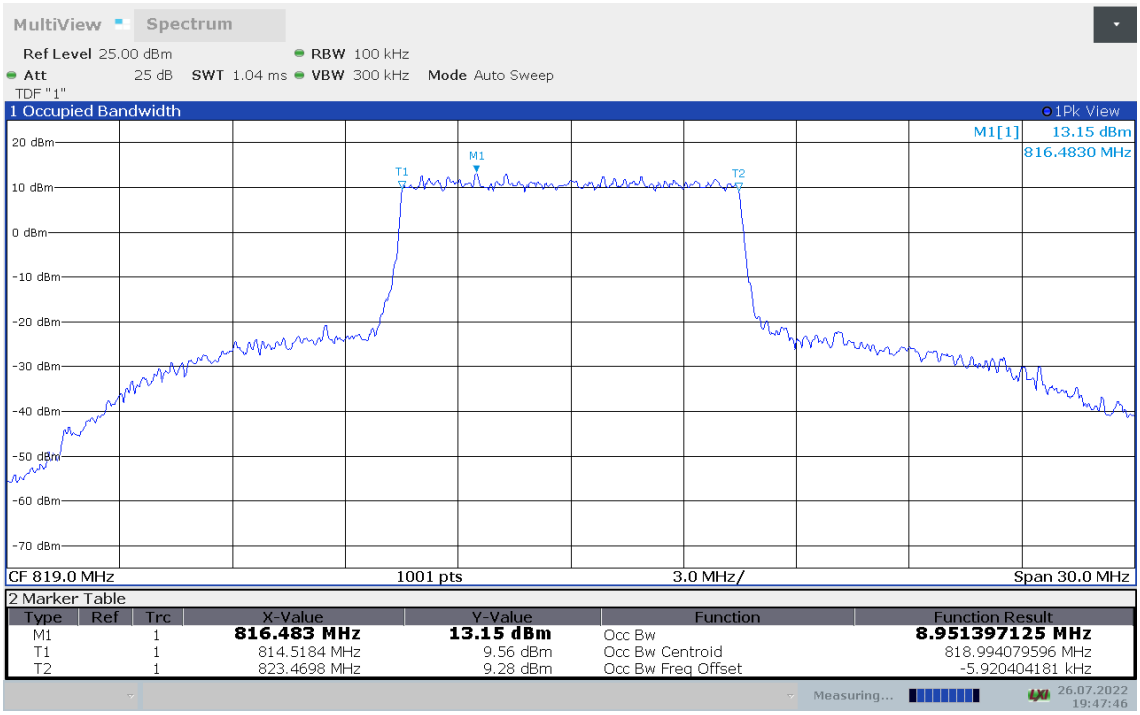
**LTE band 26(814MHz-824MHz), 10MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(814MHz-824MHz), 10MHz Bandwidth, 16QAM (99% BW)**



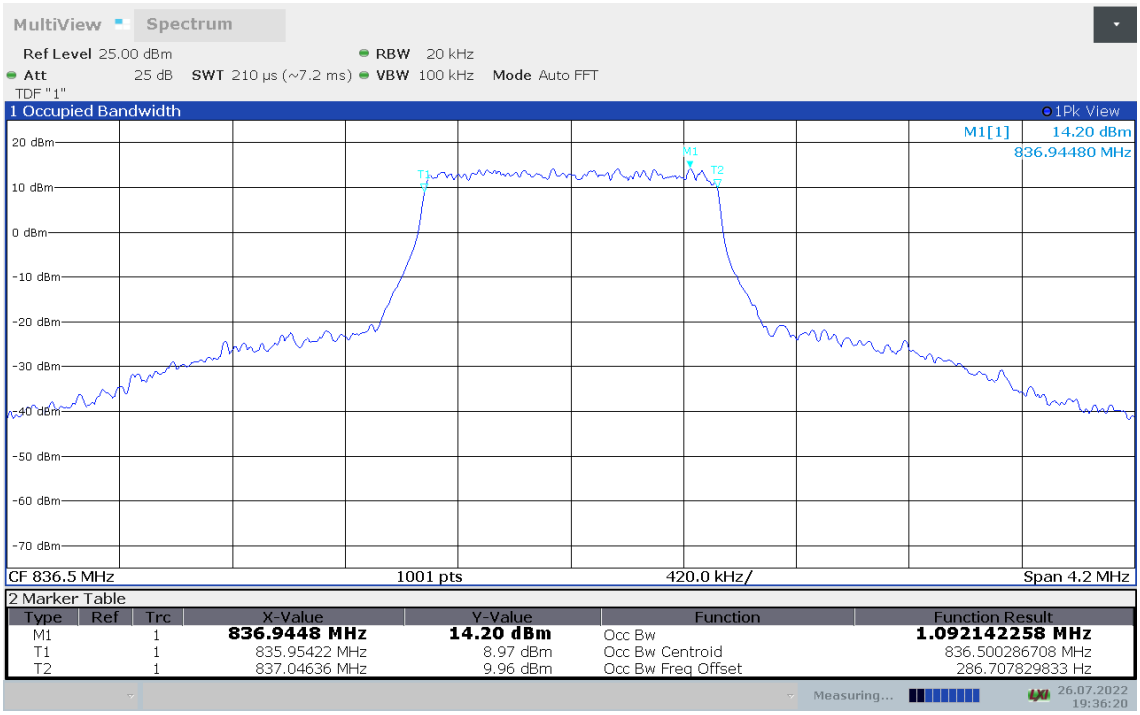
**LTE Band 26(814MHz-824MHz), 10MHz Bandwidth, 64QAM (99% BW)**



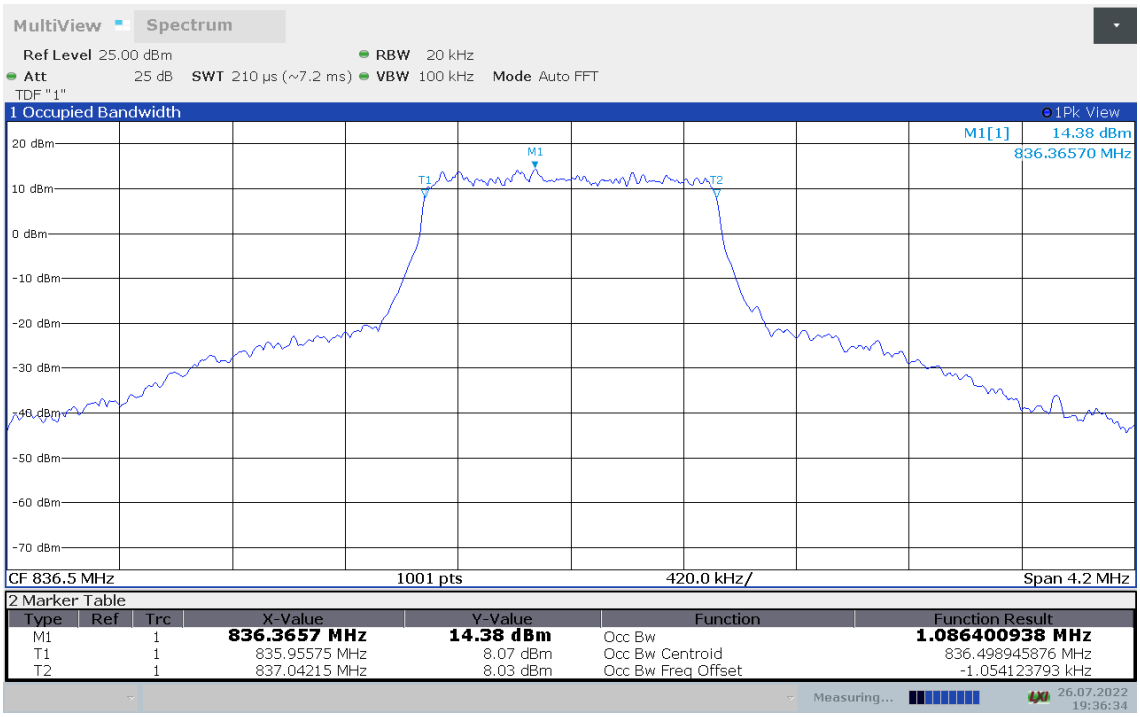
**LTE band 26(824MHz-849MHz), 1.4MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 836.5 | QPSK | 16QAM | 64QAM |
| | 1.092 | 1.086 | 1.087 |

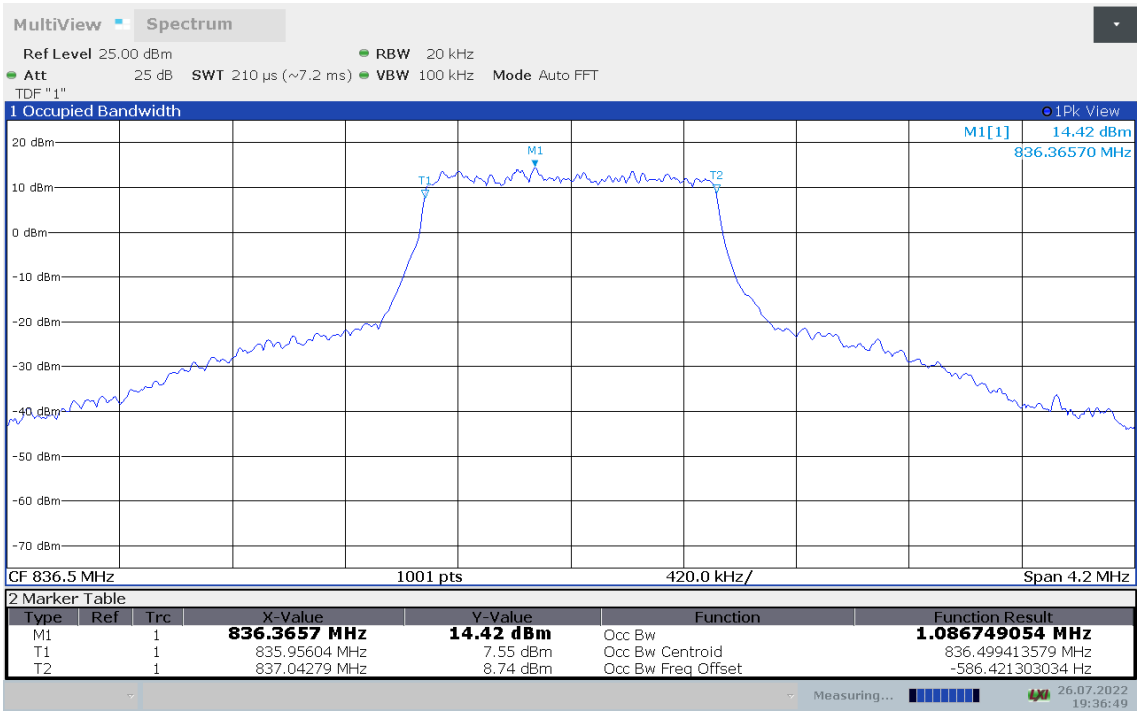
**LTE band 26(824MHz-849MHz), 1.4MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(824MHz-849MHz), 1.4MHz Bandwidth, 16QAM (99% BW)**



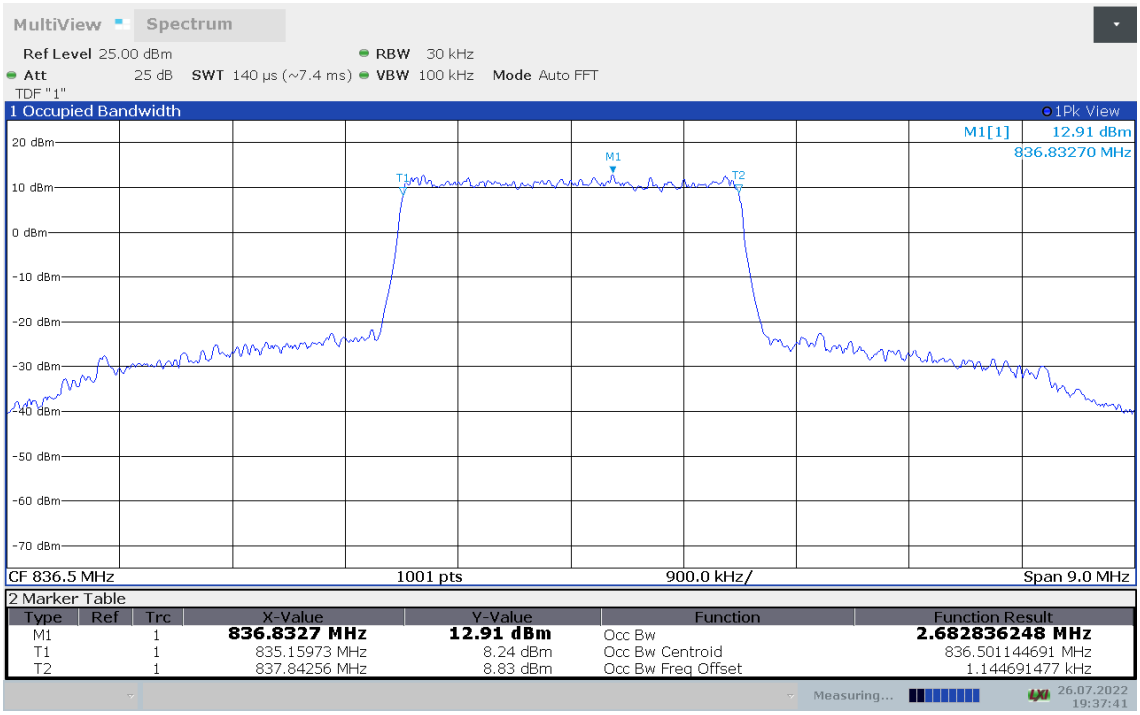
## LTE Band 26(824MHz-849MHz), 1.4MHz Bandwidth, 64QAM (99% BW)



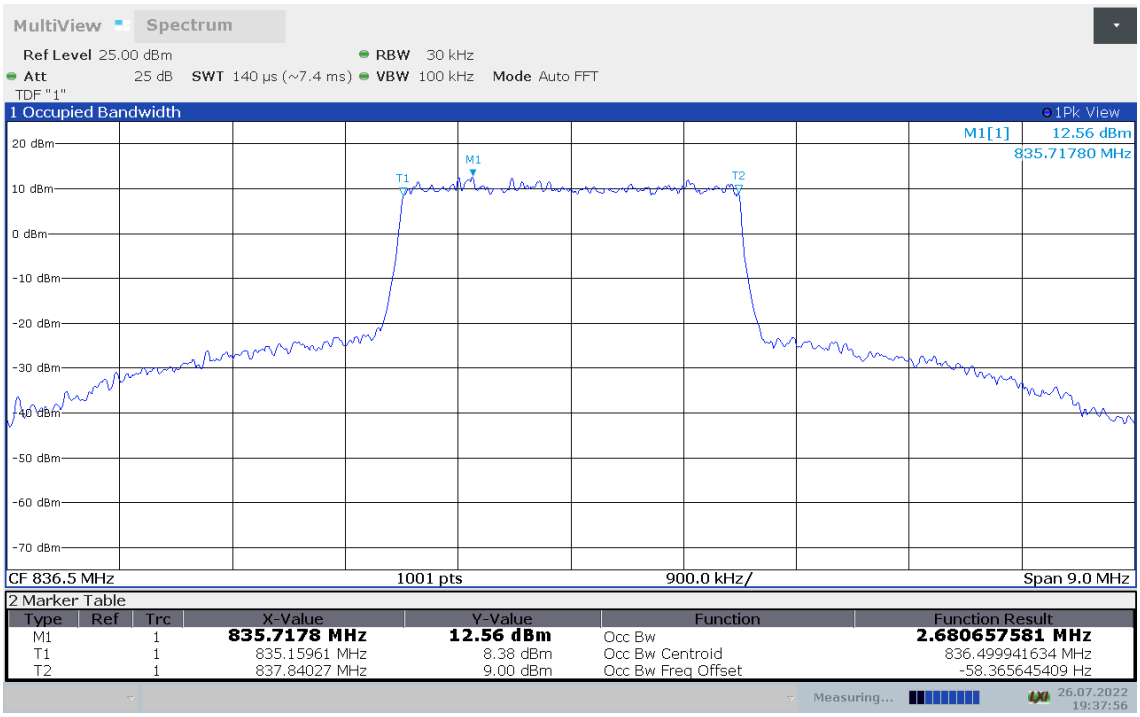
**LTE band 26(824MHz-849MHz), 3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 836.5 | QPSK | 16QAM | 64QAM |
| | 2.683 | 2.681 | 2.681 |

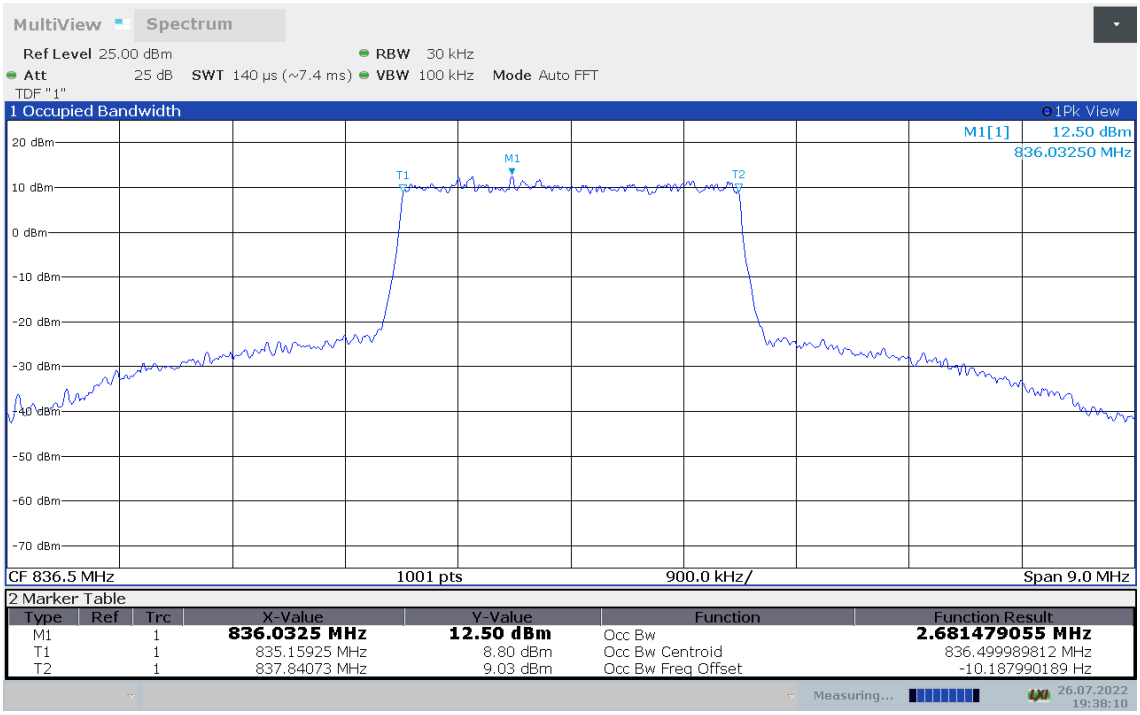
**LTE band 26(824MHz-849MHz), 3MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(824MHz-849MHz), 3MHz Bandwidth, 16QAM (99% BW)**



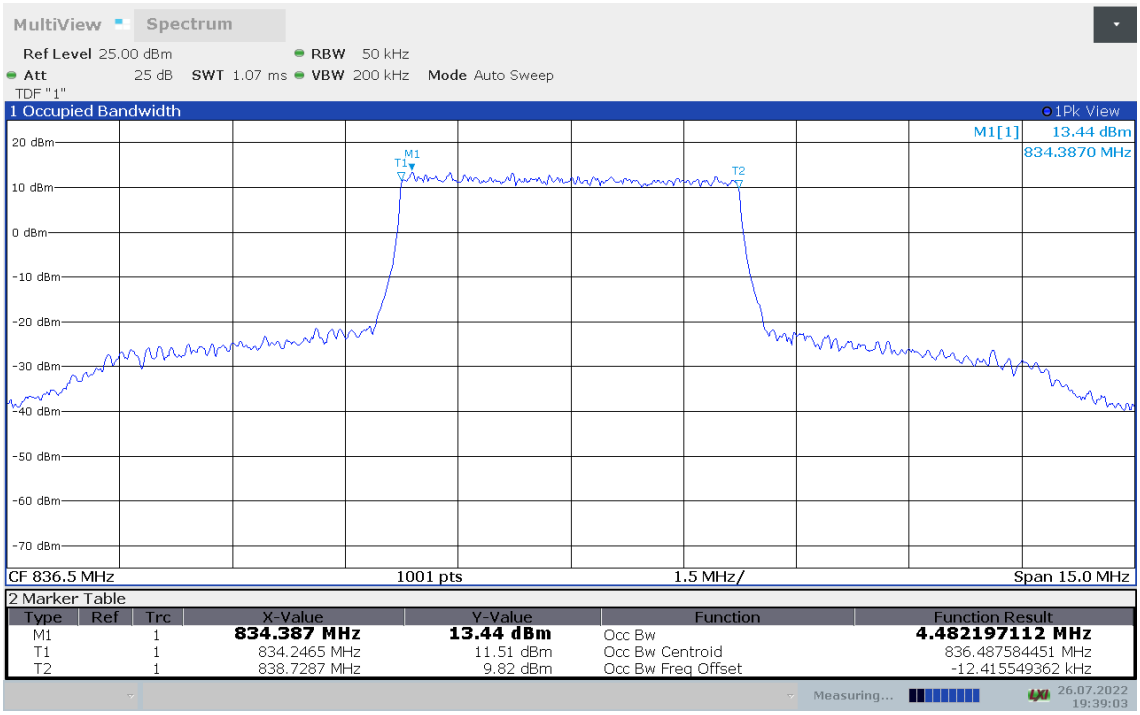
**LTE Band 26(824MHz-849MHz), 3MHz Bandwidth, 64QAM (99% BW)**



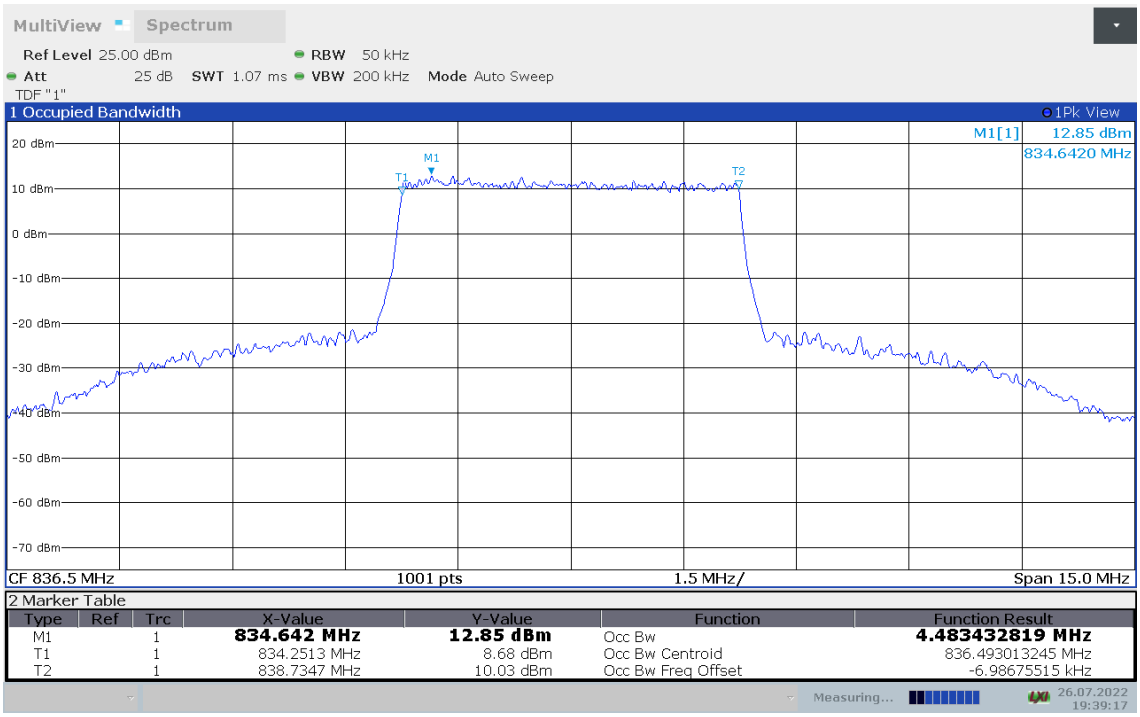
**LTE band 26(824MHz-849MHz), 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 836.5 | QPSK | 16QAM | 64QAM |
| | 4.482 | 4.483 | 4.483 |

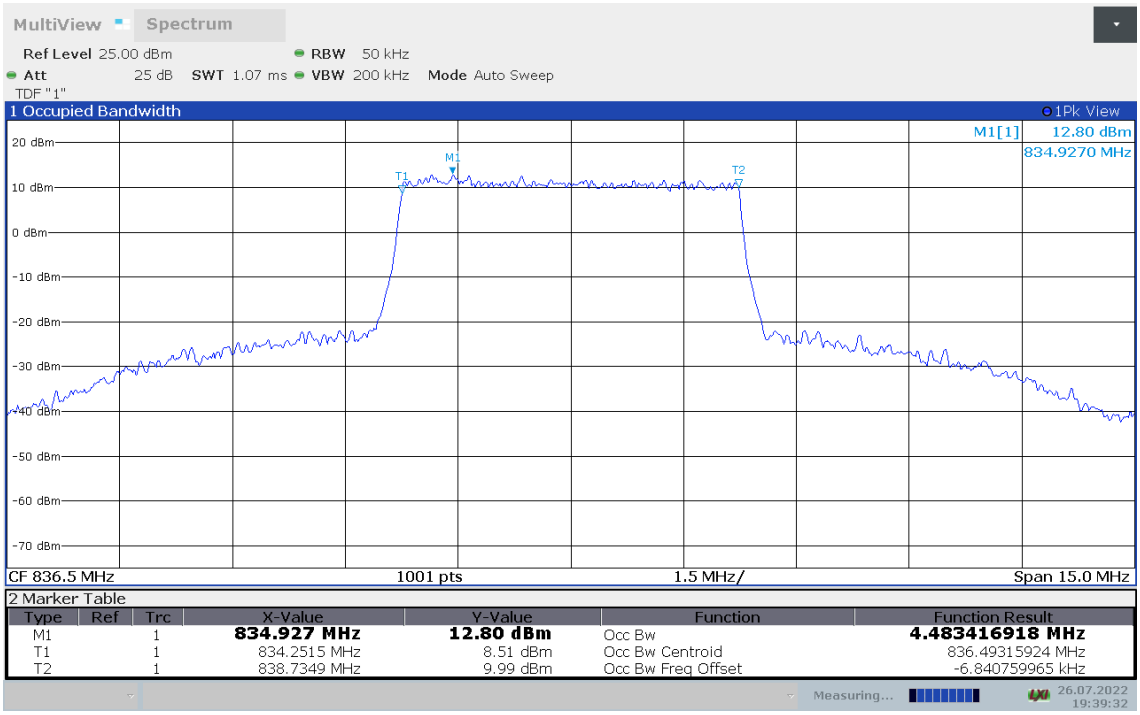
**LTE band 26(824MHz-849MHz), 5MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(824MHz-849MHz), 5MHz Bandwidth,16QAM (99% BW)**



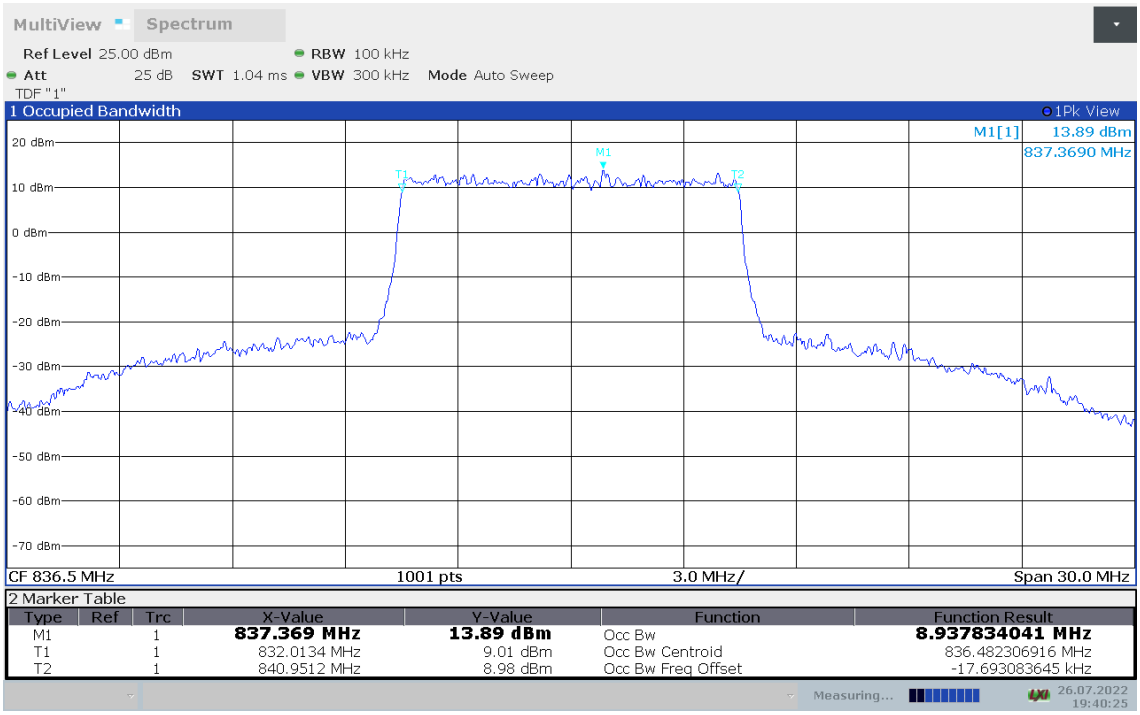
**LTE Band 26(824MHz-849MHz), 5MHz Bandwidth,64QAM (99% BW)**



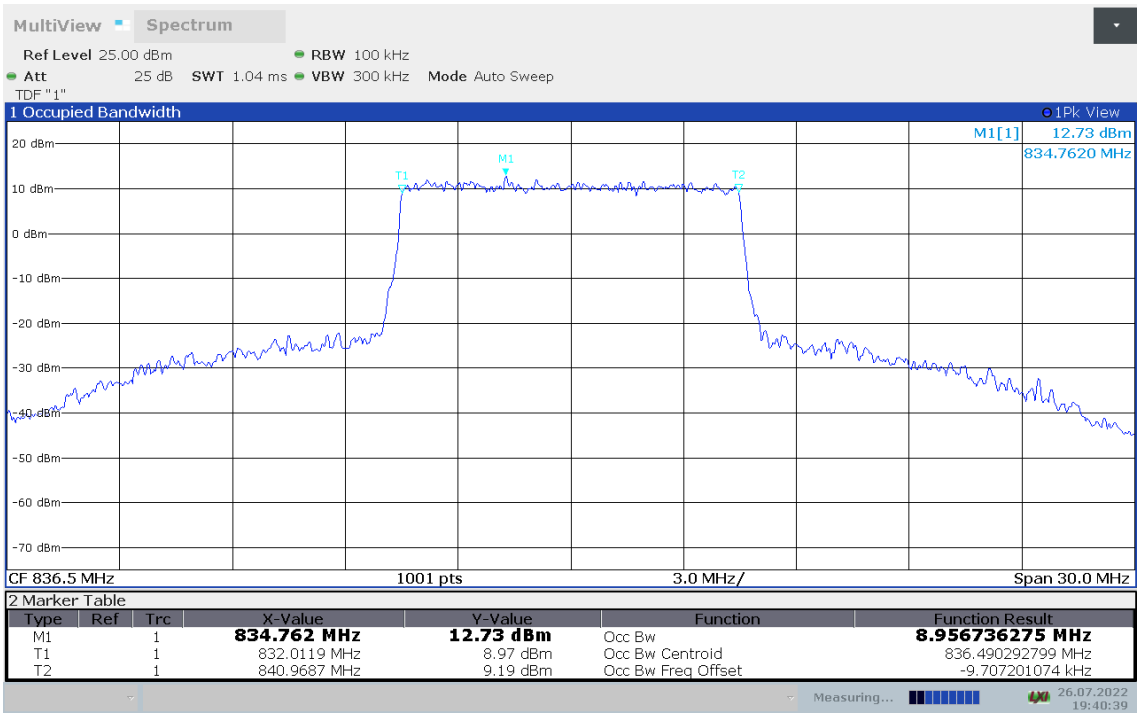
**LTE band 26(824MHz-849MHz), 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 836.5 | QPSK | 16QAM | 64QAM |
| | 8.938 | 8.957 | 8.948 |

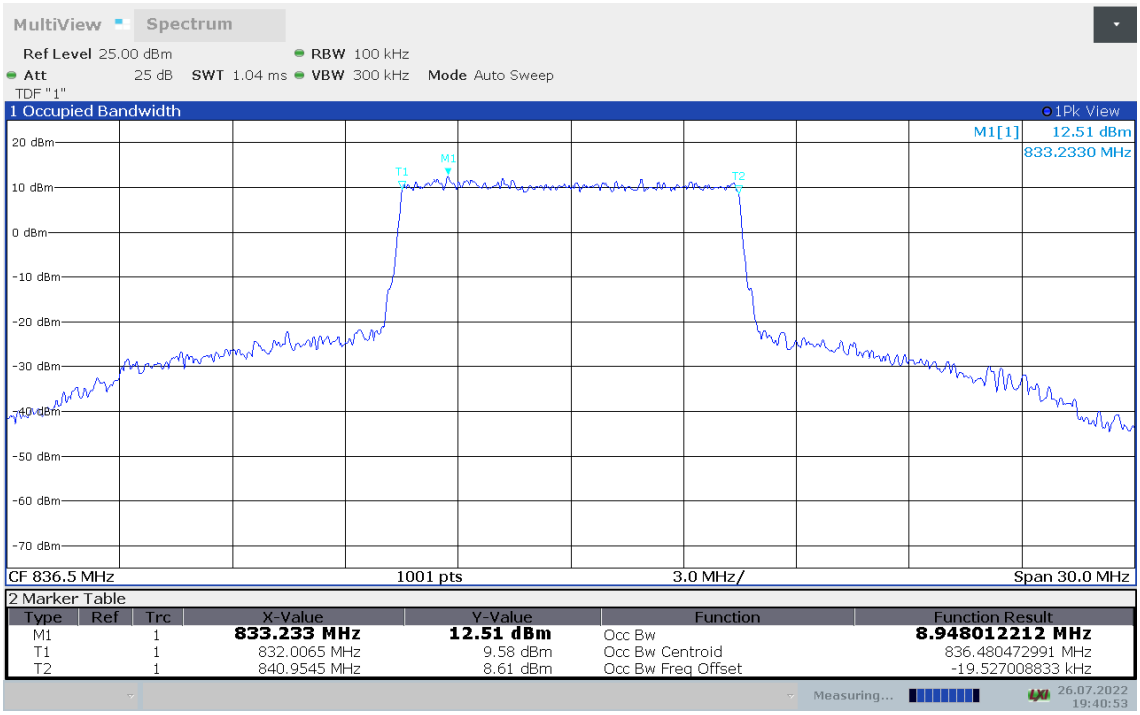
**LTE band 26(824MHz-849MHz), 10MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(824MHz-849MHz), 10MHz Bandwidth, 16QAM (99% BW)**



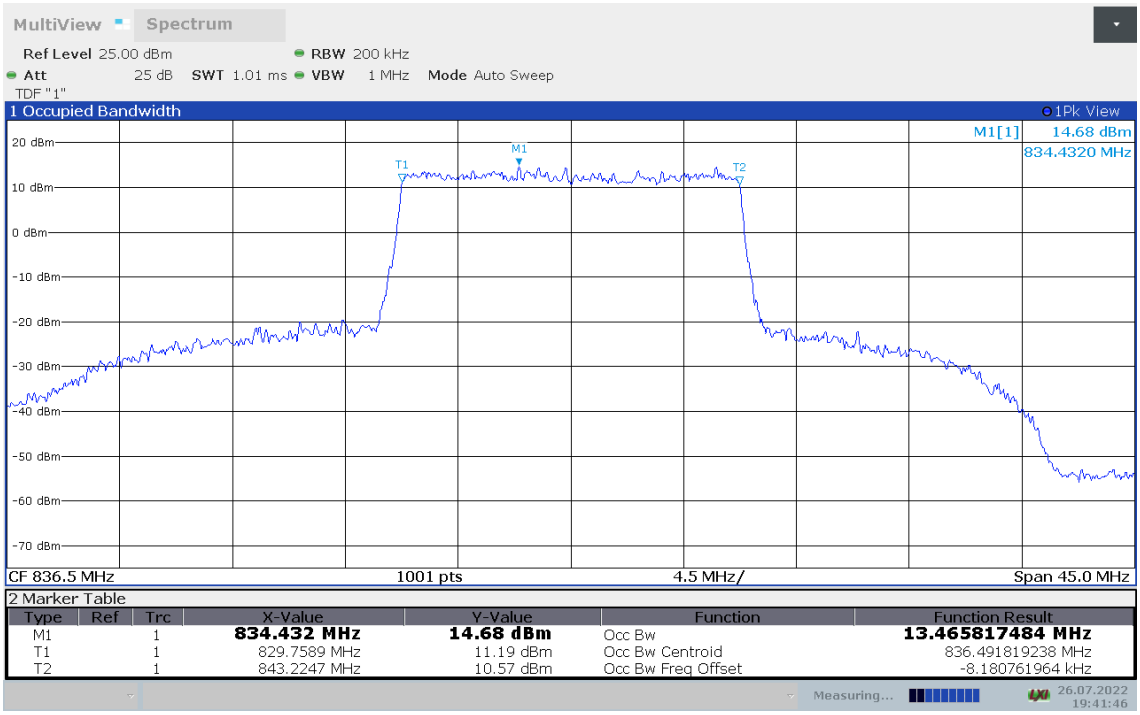
**LTE Band 26(824MHz-849MHz), 10MHz Bandwidth, 64QAM (99% BW)**



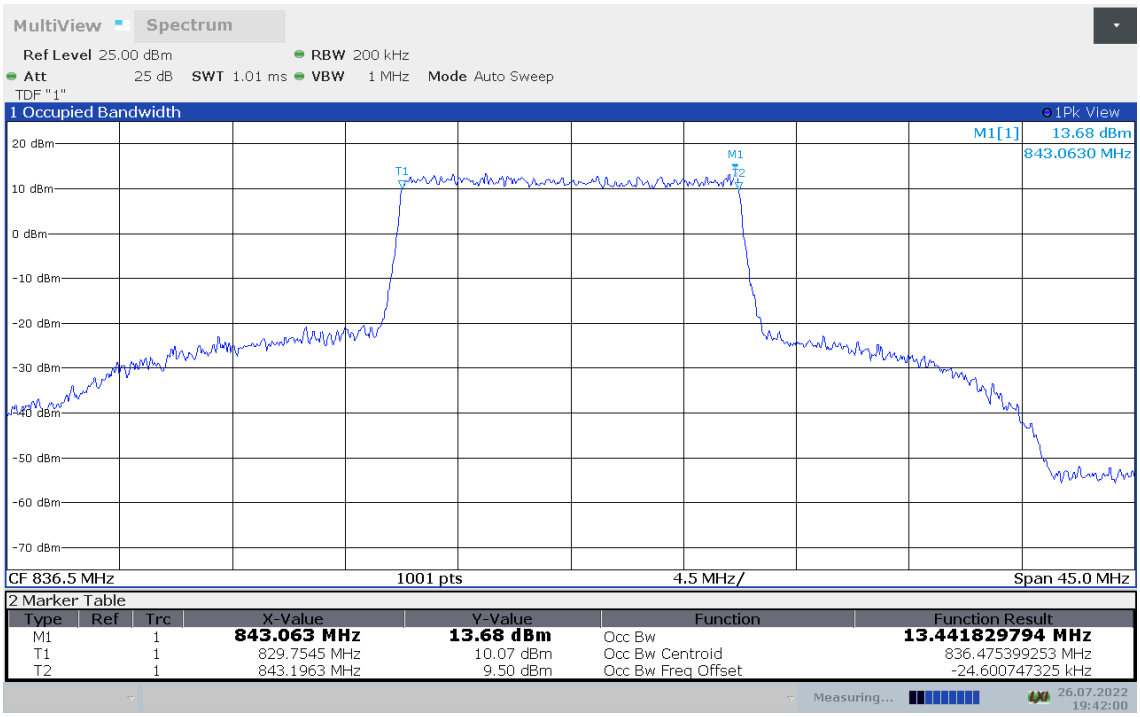
**LTE band 26(824MHz-849MHz), 15MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 836.5 | QPSK | 16QAM | 64QAM |
| | 13.466 | 13.442 | 13.442 |

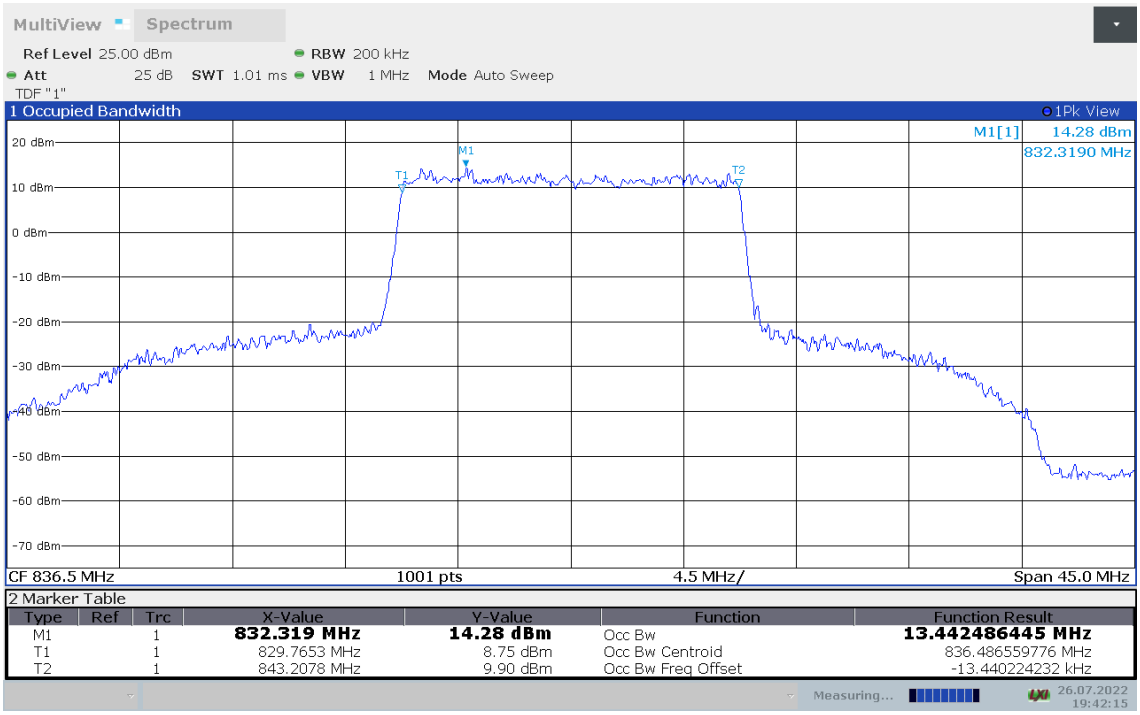
**LTE band 26(824MHz-849MHz), 15MHz Bandwidth, QPSK (99% BW)**




**LTE band 26(824MHz-849MHz), 15MHz Bandwidth, 16QAM (99% BW)**



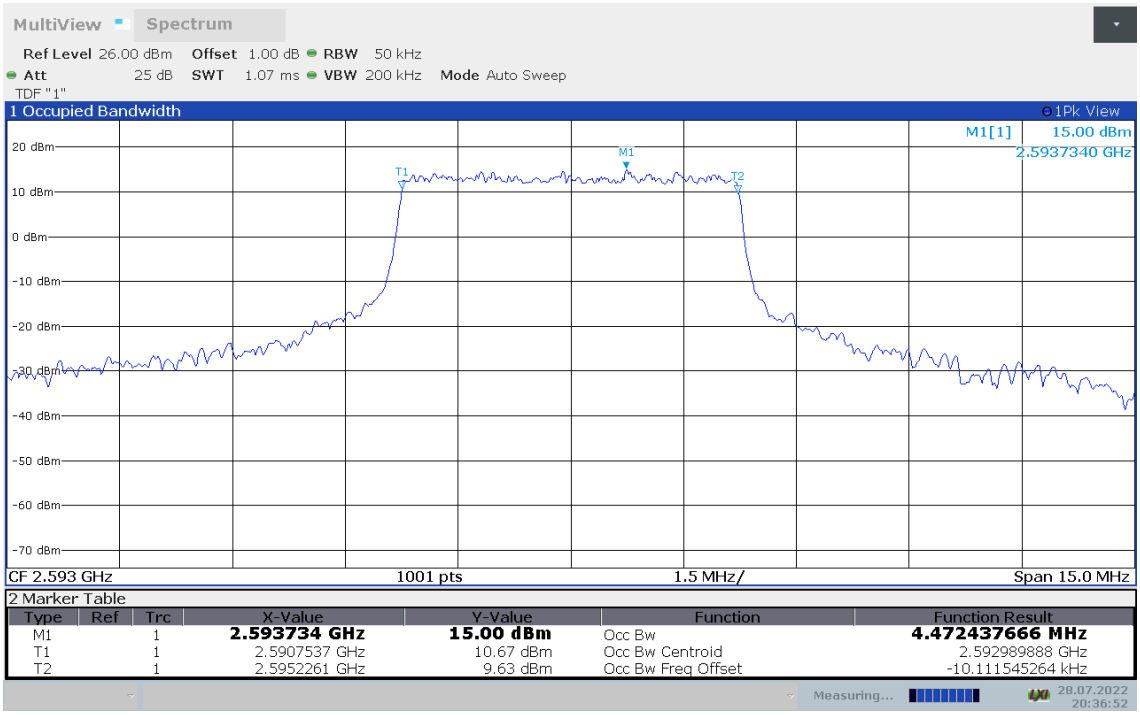
**LTE Band 26(824MHz-849MHz), 15MHz Bandwidth, 64QAM (99% BW)**



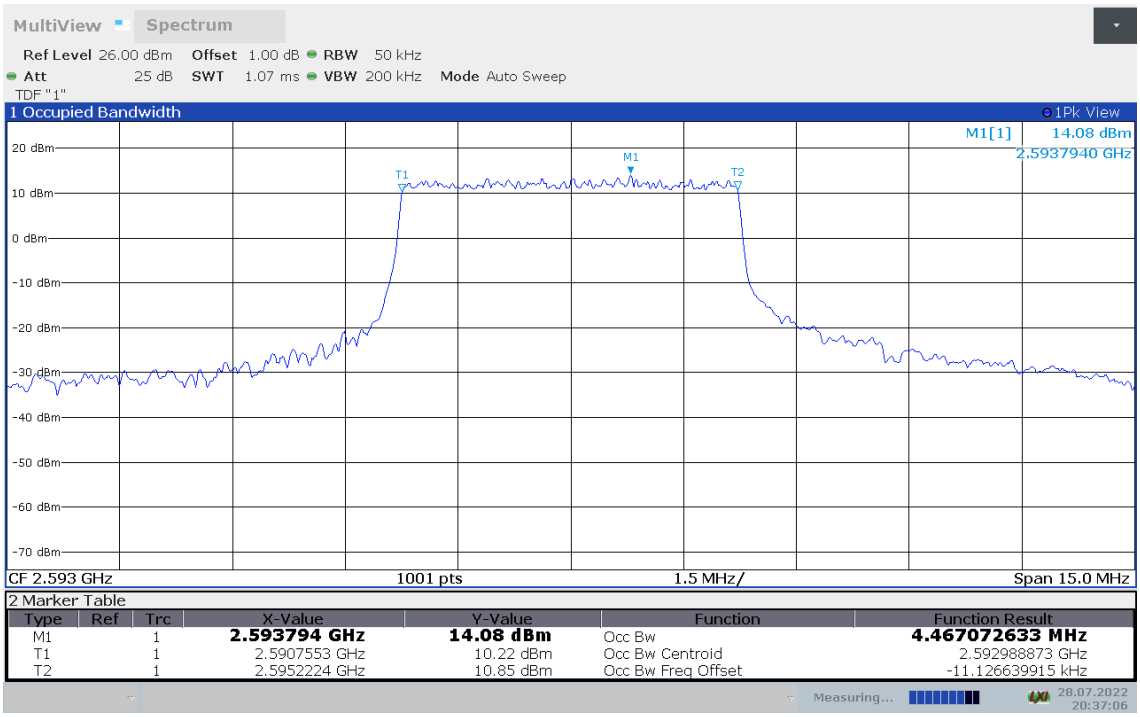
**LTE band 41,5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2593 | QPSK | 16QAM | 64QAM |
| | 4.472 | 4.467 | 4.466 |

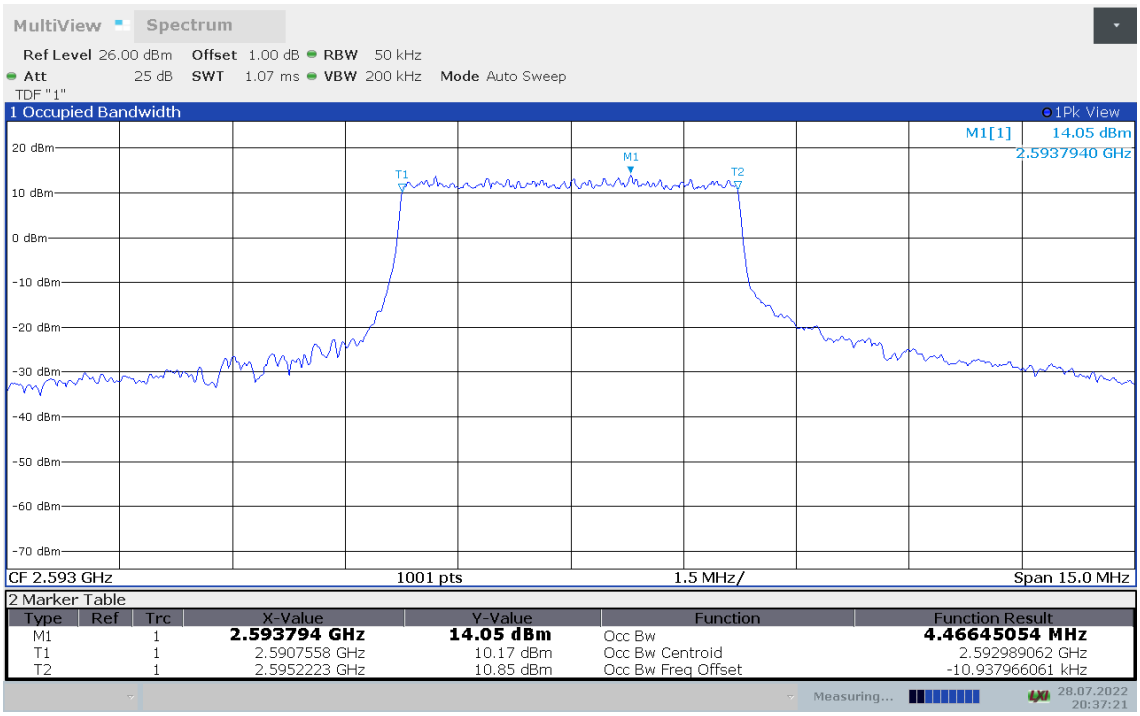
**LTE band 41,5MHz Bandwidth, QPSK (99% BW)**




**LTE band 41,5MHz Bandwidth,16QAM (99% BW)**



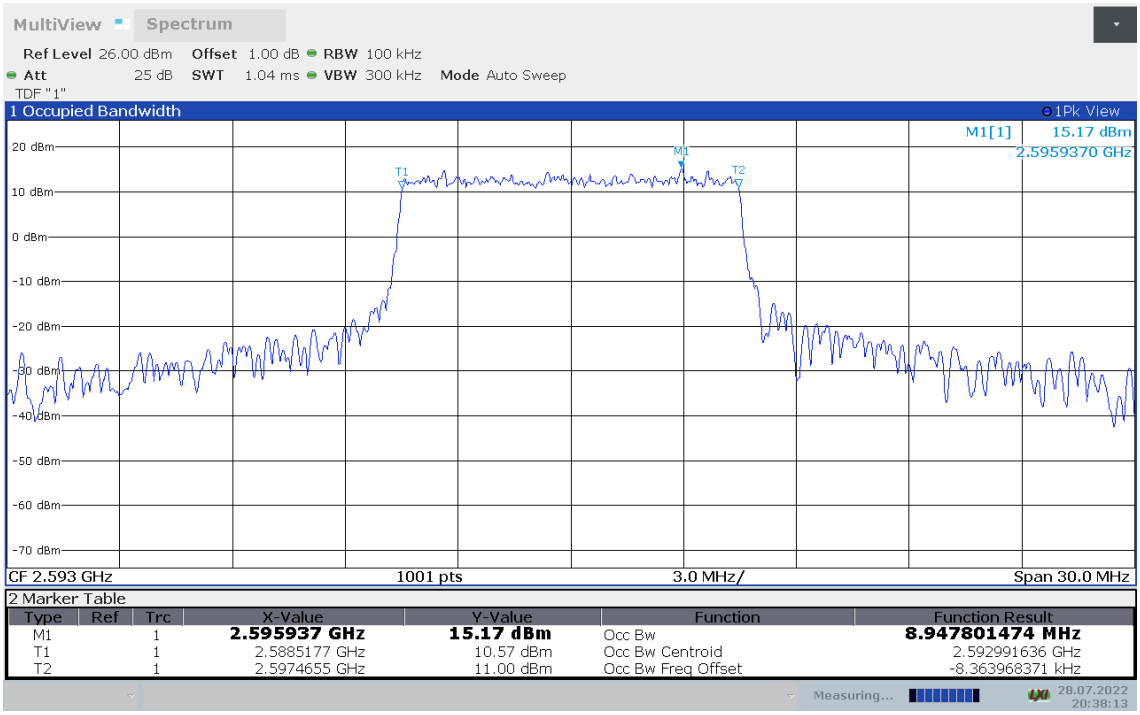
**LTE band 41,5MHz Bandwidth,64QAM (99% BW)**



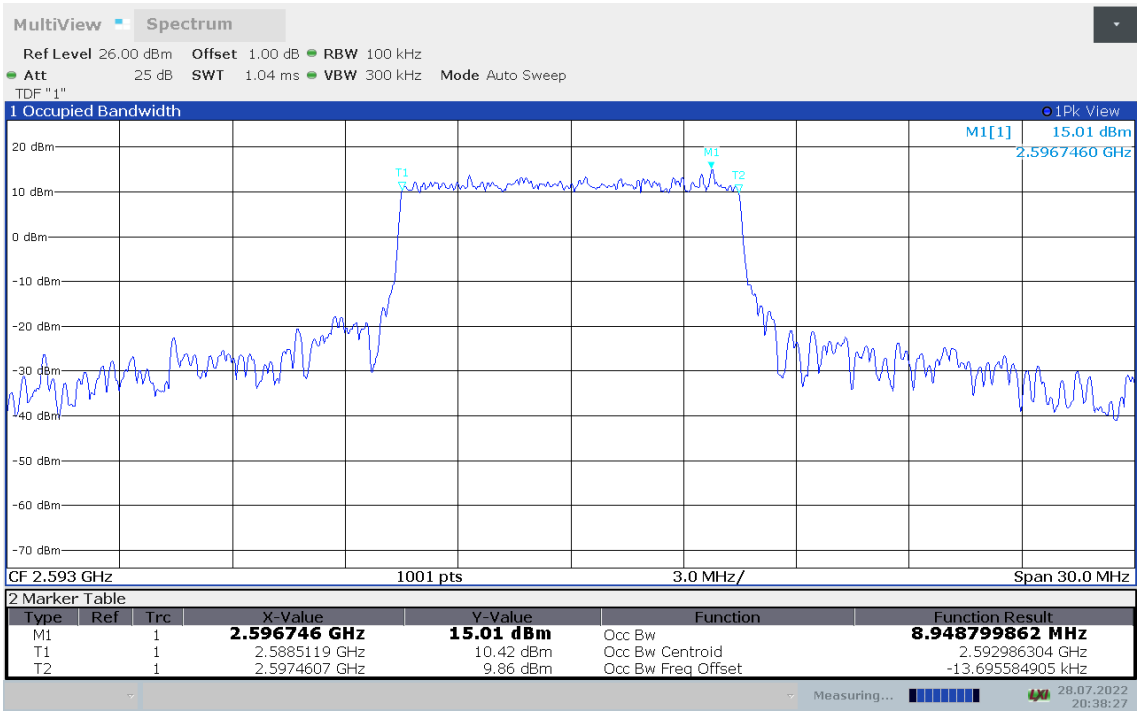
**LTE band 41,10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2593 | QPSK | 16QAM | 64QAM |
| | 8.948 | 8.949 | 8.949 |

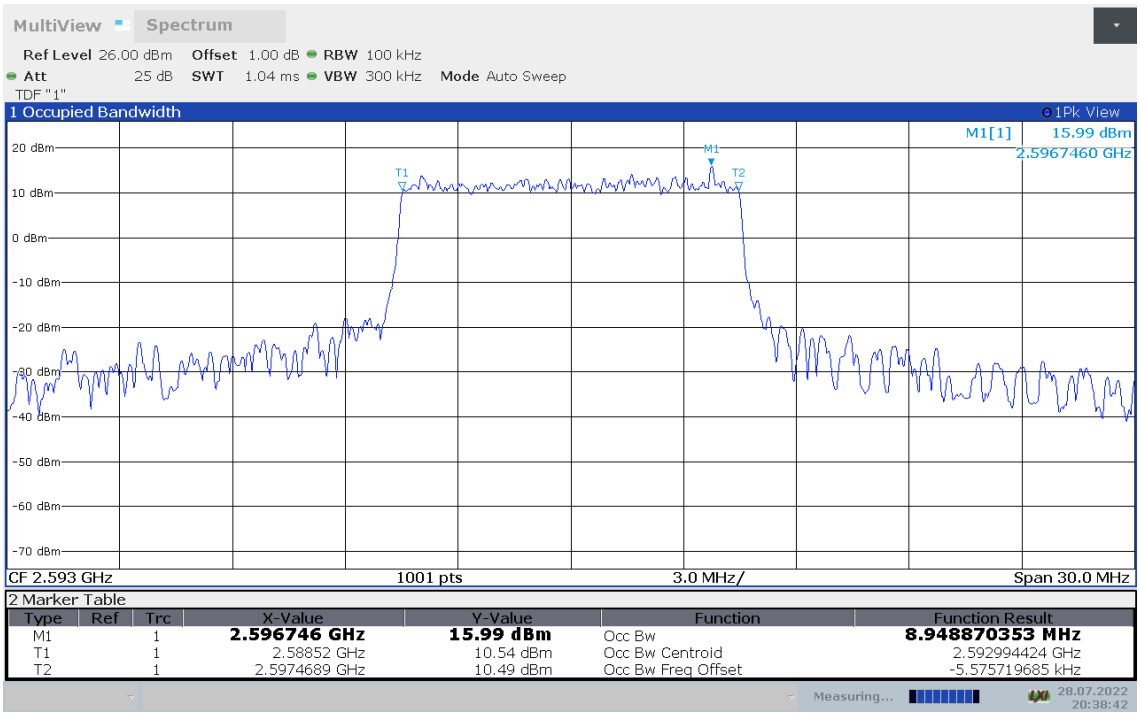
**LTE band 41,10MHz Bandwidth, QPSK (99% BW)**




**LTE band 41,10MHz Bandwidth, 16QAM (99% BW)**



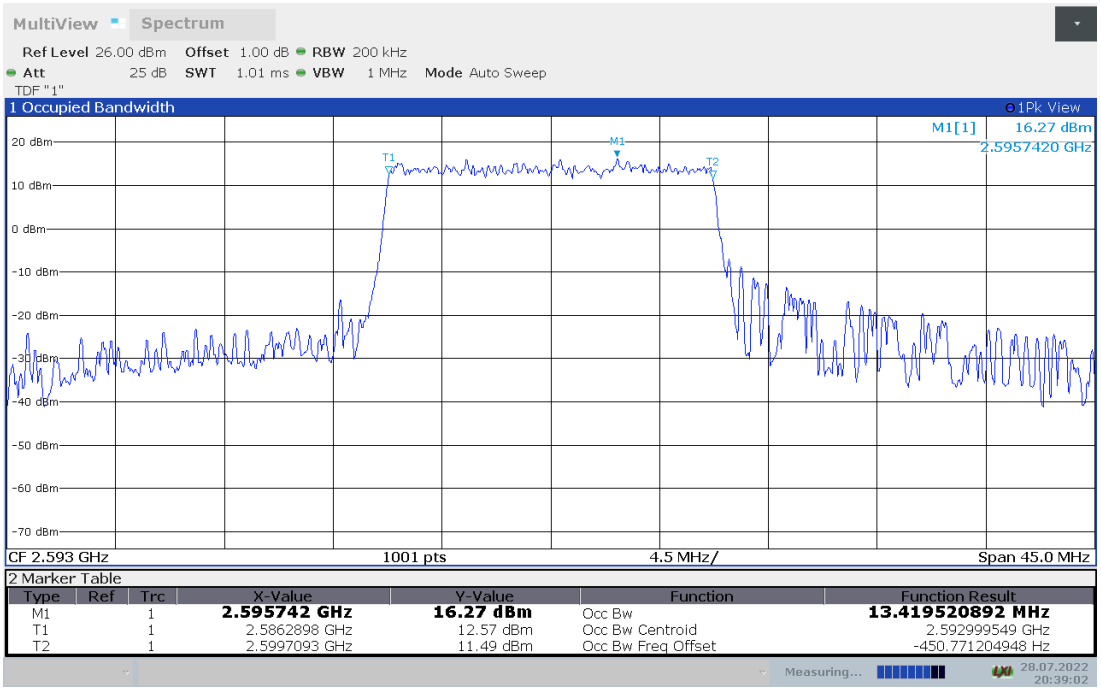
**LTE band 41,10MHz Bandwidth, 64QAM (99% BW)**



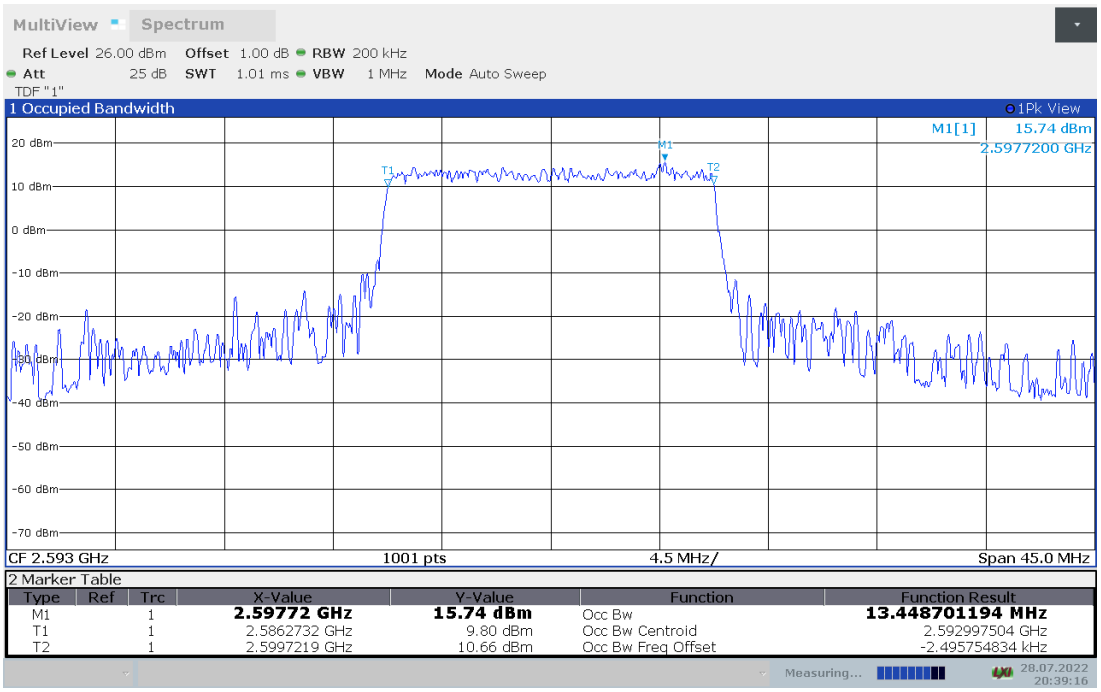
**LTE band 41,15MHz(99%)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2593 | QPSK | 16QAM | 64QAM |
| | 13.420 | 13.449 | 13.415 |

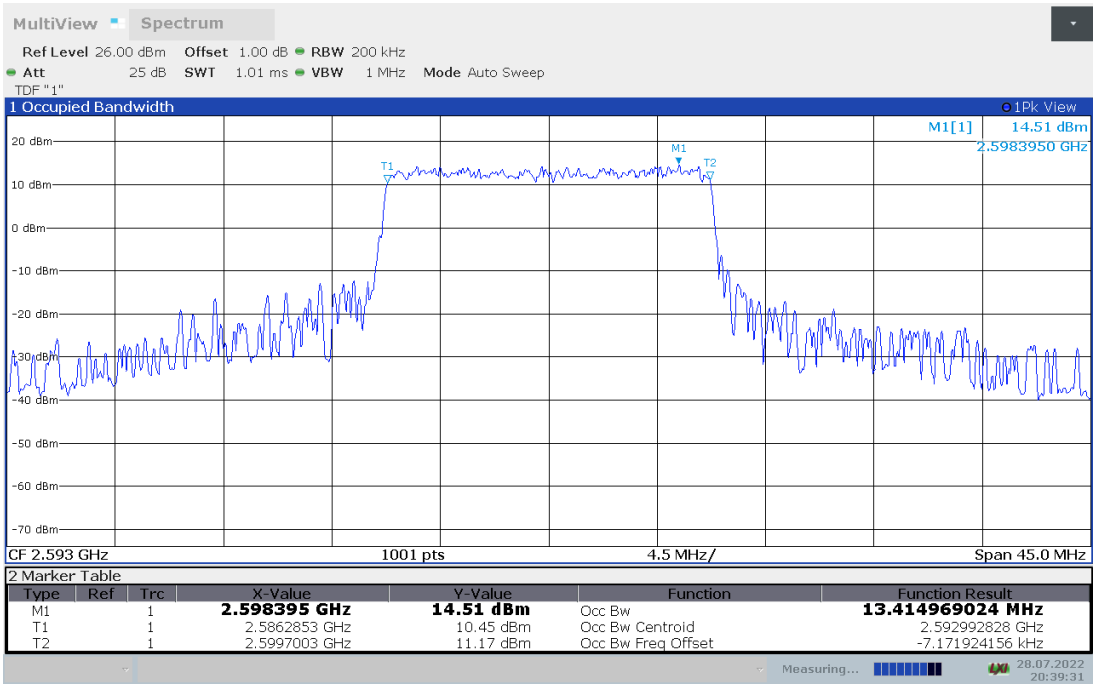
**LTE band 41 , 15MHz Bandwidth,QPSK (99% BW)**




**LTE band 41 , 15MHz Bandwidth,16QAM (99% BW)**



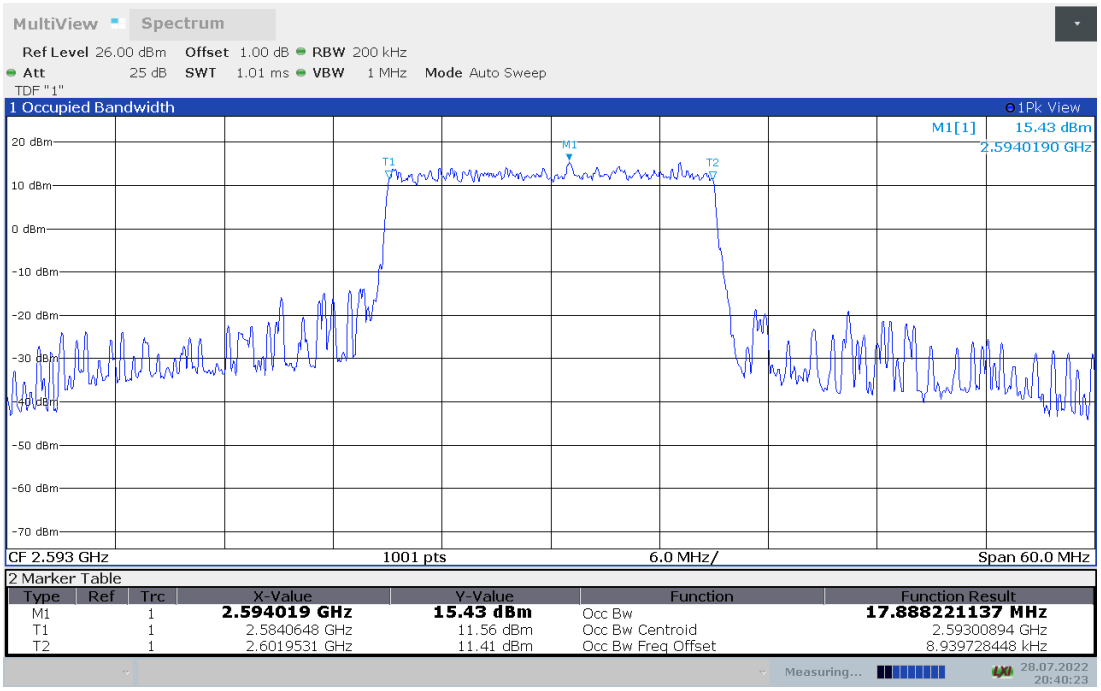
**LTE band 41 , 15MHz Bandwidth,64QAM (99% BW)**



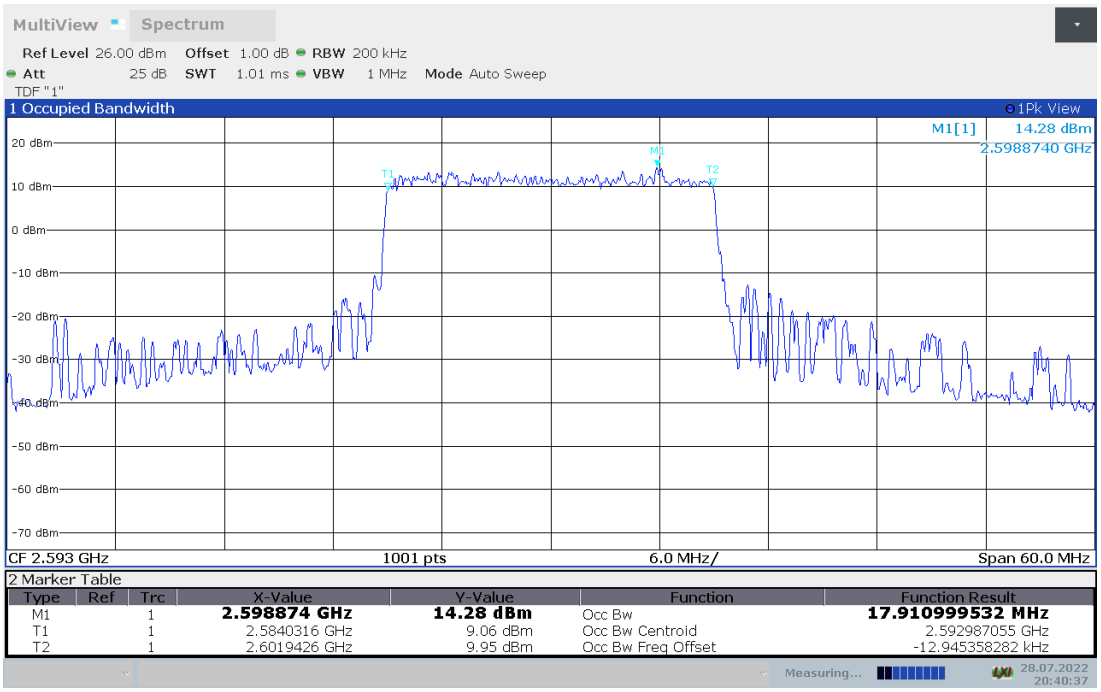
**LTE band 41,20MHz(99%)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 2593 | QPSK | 16QAM | 64QAM |
| | 17.888 | 17.911 | 17.884 |

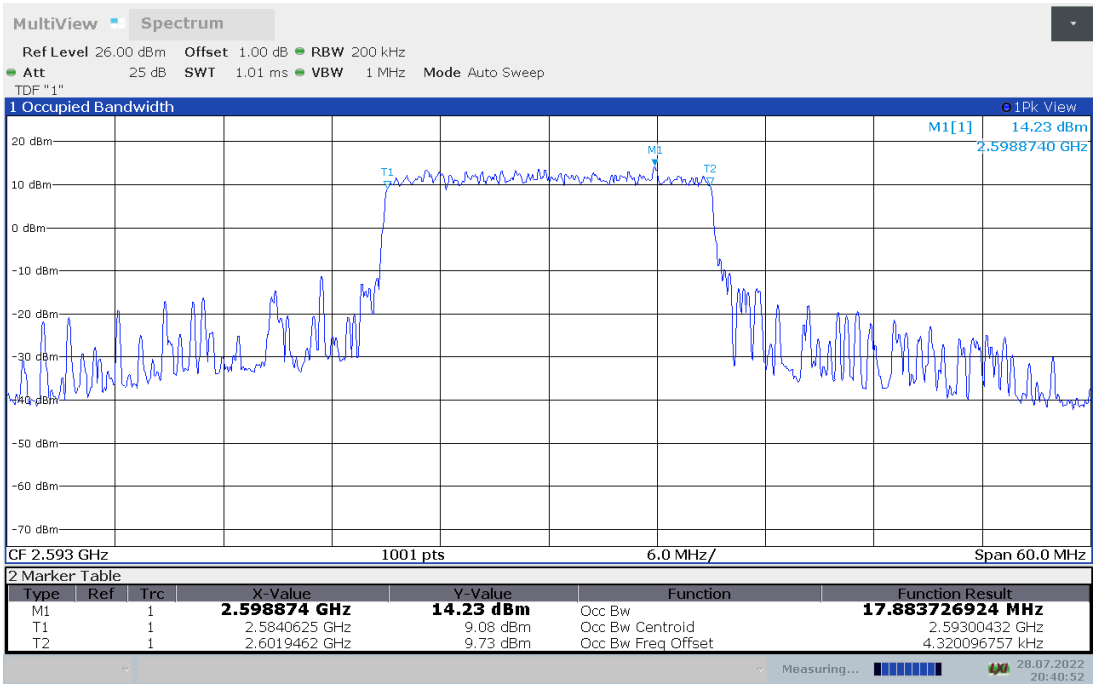
**LTE band 41 , 20MHz Bandwidth,QPSK (99% BW)**




**LTE band 41 , 20MHz Bandwidth,16QAM (99% BW)**



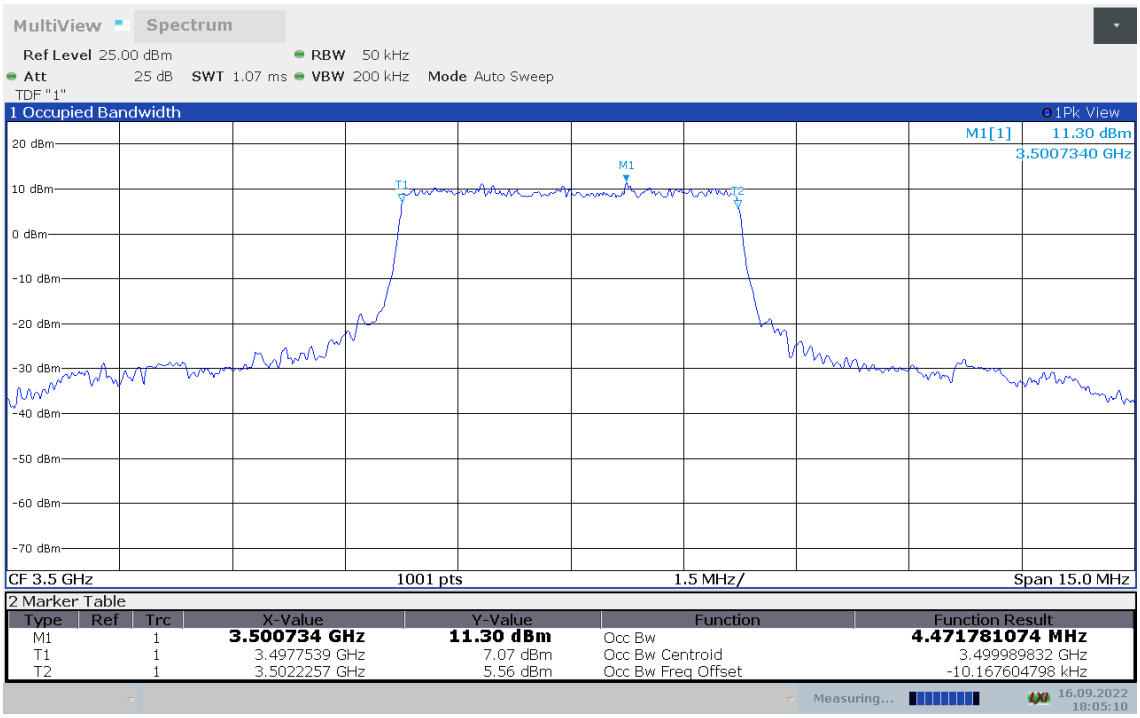
**LTE band 41 , 20MHz Bandwidth,64QAM (99% BW)**



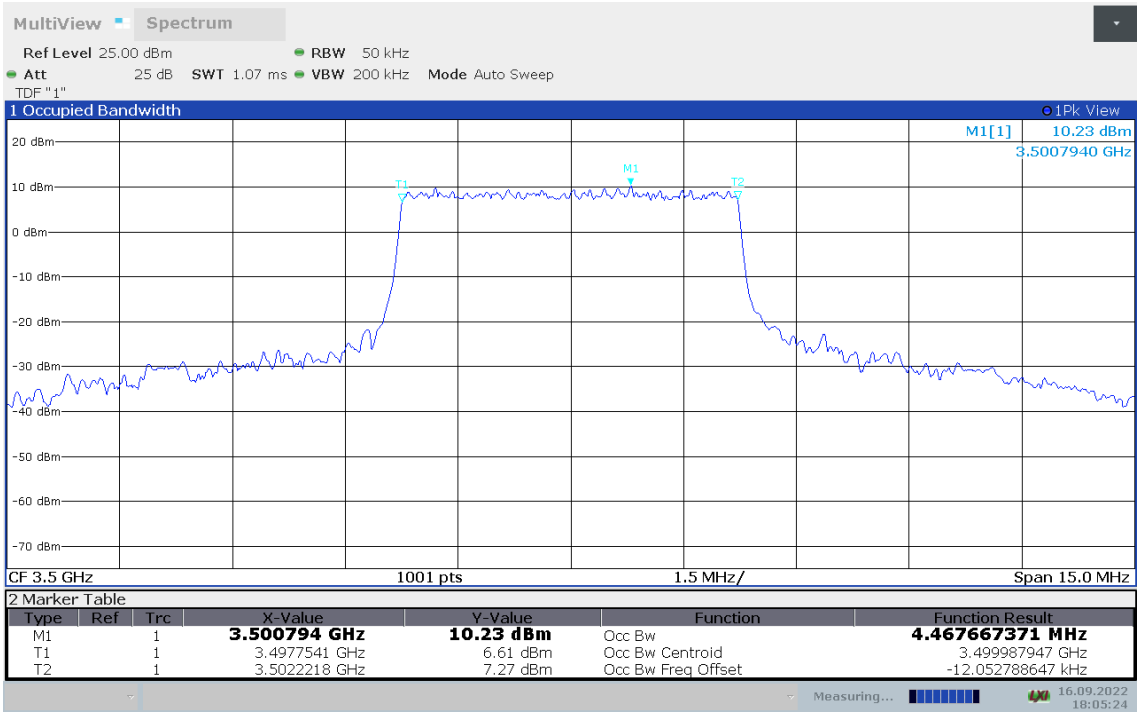
**LTE band 42(3450MHz-3550MHz), 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(MHz) | | |
|---|---|---|---|
| 3500 | QPSK | 16QAM | 64QAM |
| | 4.472 | 4.468 | 4.468 |

**LTE band 42(3450MHz-3550MHz), 5MHz Bandwidth, QPSK (99% BW)**




**LTE band 42(3450MHz-3550MHz), 5MHz Bandwidth,16QAM (99% BW)**



**LTE Band 42(3450MHz-3550MHz), 5MHz Bandwidth,64QAM (99% BW)**