



# TEST REPORT

**REPORT NUMBER: I21W00032-WWAN\_Rev2**

**ON**

**Type of Equipment:** Wireless Module  
**Type of Designation:** A7672SA/A7672SA miniPCIE  
**Brand Name:** SIMCom  
**Manufacturer:** SIMCom Wireless Solutions Limited  
**FCC ID:** 2AJYU-8BAE001

**ACCORDING TO**

**FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;  
GENERAL  
PART 22, PUBLIC MOBILE SERVICES, e-CFR, 2019  
PART 24, PERSONAL COMMUNICATIONS SERVICES, e-CFR, 2019  
PART 27, MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR, 2019  
ANSI C63.26-2015**

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

*Dec, 04, 2021*

*Signature*



**Xiang Luoyong**

**Director**

**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 Chongqing Academy of Information and Communications Technology.

**Revision Version**

| Report Number       | Revision | Date       | Memo                            |
|---------------------|----------|------------|---------------------------------|
| I21W00032-WWAN      | 00       | 2021-10-18 | Initial creation of test report |
| I21W00032-WWAN_Rev1 | 01       | 2021-11-12 | First modification test report  |
| I21W00032-WWAN_Rev2 | 02       | 2021-12-04 | Second modification test report |

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## 1. Test Laboratory

### 1.1. Testing Location

|                          |                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Name:                    | Chongqing Academy of Information and Communications Technology                                                                      |
| FCC Registration Number: | CN1239                                                                                                                              |
| Address:                 | Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China |
| Postal Code:             | 401336                                                                                                                              |
| Telephone:               | 0086-23-88069965                                                                                                                    |
| Fax:                     | 0086-23-88608777                                                                                                                    |

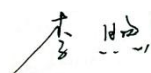
### 1.2. Testing Environment

|                     |         |
|---------------------|---------|
| Normal Temperature: | 15-35°C |
| Relative Humidity:  | 30-60%  |

### 1.3. Project data

|                     |            |
|---------------------|------------|
| Testing Start Date: | 2021-08-30 |
| Testing End Date:   | 2021-12-04 |

### 1.4. Signature



2021-12-04

**LiXu**  
(Prepared this test report)

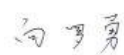
**Date**



2021-12-04

**ChenWen**  
(Reviewed this test report)

**Date**



2021-12-04

**XiangLuoYong**  
Director of the laboratory  
(Approved this test report)

**Date**

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## 2. Client Information

### 2.1. Applicant Information

|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Company Name:   | SIMCom Wireless Solutions Limited                                          |
| Address /Post:  | Building 3, No. 289, Linhong Road, Changning District, Shanghai, P.R.China |
| City:           | Shanghai                                                                   |
| Country:        | China                                                                      |
| Telephone:      | 15902149520                                                                |
| Fax:            | --                                                                         |
| Email:          | yue.hai@simcom.com                                                         |
| Contact Person: | Haiyue                                                                     |

### 2.2. Manufacturer Information(if different from applicant in section 2.1)

|                 |    |
|-----------------|----|
| Company Name:   | -- |
| Address /Post:  | -- |
| City:           | -- |
| Country:        | -- |
| Telephone:      | -- |
| Fax:            | -- |
| Email:          | -- |
| Contact Person: | -- |

### 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

|                      |                          |
|----------------------|--------------------------|
| EUT Description      | Wireless Module          |
| Model name           | A7672SA/A7672SA miniPCIE |
| Brand name           | SIMCom                   |
| GSM Frequency Band   | 850/1900                 |
| LTE Frequency Band   | 2/4/5/66                 |
| Type of modulation   | GMSK/8PSK/QPSK/16QAM     |
| Power Class          | 3                        |
| Extreme Temperature  | -40/+85°C                |
| Nominal Voltage      | 3.8                      |
| Extreme High Voltage | 4.2                      |
| Extreme Low Voltage  | 3.4                      |

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

#### 3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI      | HW Version | SW Version         | Date of receipt |
|---------|-----------------|------------|--------------------|-----------------|
| S1      | 860710050007536 | V1.01      | A011B01A7672M7_GPS | 2021-08-26      |
| S2      | 860710050012304 | V1.01      | A011B01A7672M7_GPS | 2021-08-26      |

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

#### 3.3. Outline of Equipment under Test

| Technology | Band    | UL Freq.(MHz) | DL Freq.(MHz) | Note |
|------------|---------|---------------|---------------|------|
| GSM        | GSM850  | 824 – 849     | 869 – 894     | --   |
|            | PCS1900 | 1850 – 1910   | 1930 – 1990   | --   |
| LTE        | B2      | 1850 – 1910   | 1930 – 1990   | --   |

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|           |     |             |             |    |
|-----------|-----|-------------|-------------|----|
|           | B4  | 1710 – 1755 | 2110 – 2155 | -- |
|           | B5  | 824 – 849   | 869 – 894   | -- |
|           | B66 | 1710-1780   | 2110-2200   | -- |
| BLUETOOTH | BLE | 2402-2480   |             | -- |

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

| AE ID* | Description | dB* |
|--------|-------------|-----|
| AE1    | RF cable    | --  |

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

dB\*: is provided customer.

## 4. Reference Documents

### 4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

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

| Reference        | Title                                                                                | Version |
|------------------|--------------------------------------------------------------------------------------|---------|
| FCC CFR Part 2   | FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR | 2019    |
| PART 22          | PUBLIC MOBILE SERVICES                                                               | 2019    |
| PART 24, 2019    | PERSONAL COMMUNICATIONS SERVICES, e-CFR                                              | 2019    |
| PART 27, 2019    | MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR                                | 2019    |
| ANSI C63.26-2015 | --                                                                                   | 2015    |



## 5. Test Equipments Utilized

### 5.1. RF Test System

| No. | Equipment                            | Model  | SN         | HW Version | SW Version | Manufacture | Cal.Due Date |
|-----|--------------------------------------|--------|------------|------------|------------|-------------|--------------|
| 1   | spectrum analyzer                    | FSQ 26 | 201137/026 | --         | --         | R&S         | 2022-06-11   |
| 2   | DC Power Supply                      | N6705B | MY50000919 | --         | --         | Agilent     | 2022-06-11   |
| 3   | Universal Radio Communication Tester | CMW500 | 152395     | --         | --         | R&S         | 2022-06-11   |
| 4   | Universal Radio Communication Tester | CMU200 | 122992     | --         | --         | R&S         | 2022-06-11   |

### 5.2. RSE Test System

| No. | Equipment                           | Model     | SN     | HW Version | SW Version | Manufacture | Cal.Due Date |
|-----|-------------------------------------|-----------|--------|------------|------------|-------------|--------------|
| 1   | EMI Test Receiver                   | ESU26     | 100367 | --         | 5.1-24-3   | R&S         | 2022-06-11   |
| 2   | Trilog super broadBand test antenna | VULB 9163 | 01392  | --         | --         | R&S         | 2023-03-04   |
| 3   | Double-Ridged Horn Antenna          | HF907     | 100357 | --         | --         | R&S         | 2023-02-10   |
| 4   | Trilog super broadBand test antenna | VULB 9163 | 00995  | --         | --         | R&S         | 2023-04-03   |
| 5   | Double-Ridged Horn Antenna          | HF907     | 100356 | --         | --         | R&S         | 2022-08-20   |

### 5.3. Climate Chamber

| No. | Name                   | Type            | SN       | Manufacture | Cal.Due Date |
|-----|------------------------|-----------------|----------|-------------|--------------|
| 1   | Climate chamber        | SH-241          | 92010759 | ESPEC       | 2022-06-11   |
| 2   | Fully-Anechoic Chamber | 11.8m×6.5m×6.3m | --       | ETS         | 2024-01-22   |

#### Anechoic chamber

Fully anechoic chamber by ETS-LINDGREN.

### 5.4. Test software

| No. | Name  | version | SN | Manufacture |
|-----|-------|---------|----|-------------|
| 1   | EMC32 | V8.51.0 | -- | R&S         |

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## 6. Test Results

### 6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

| FCC Rules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name of Test                                   | Result  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------|
| 2.1046,22.913(a),24.232(c),27.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Conducted RF Power Output                      | Pass    |
| 24.232(b),27.50(d),27.50(h)(2),27.50(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ERP and EIRP                                   | Pass    |
| 2.1049,22.917(b),24.238(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Occupied Bandwidth                             | *Note 1 |
| 2.1051,2.1053,24.238,22.917,27.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Conducted spurious emissions                   | Pass    |
| 2.1051,2.1053,24.238,22.917,27.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Radiated Spurious Emission                     | Pass    |
| 2.1051,2.1053,24.238,22.917,27.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Band Edge                                      | Pass    |
| 2.1055,22.355,24.235,27.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency Stability over Temperature Variation | Pass    |
| 2.1055,22.355,24.235,27.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency Stability over Voltage Variation     | Pass    |
| 24.232,27.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Peak to Average Ratio                          | Pass    |
| Note 1: No applicable performance criteria.<br>Note 2:The module Under 16QAM modulation mode, the maximum number of RB is 27<br>Note 3:A7672SA miniPCIE products are processed to the customer's ordinary PCIE board through the module patch of A7672SA. Since the performances of the two products are exactly the same, only one type of sample has been measured by RF. ERP /EIRP and RSE EMC tested the data of two models respectively, and both passed. Only one set of data is placed in this report. |                                                |         |

## 6.2. Conducted RF Power Output

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC Part 2.1046, 22.913(a), 24.232(c), 27.50                                        |
| <b>DUT Serial Number:</b> | 860710050007536                                                                     |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass                                                                                |

### Limit Level Construction:

**According to Part 22.913(a)**, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

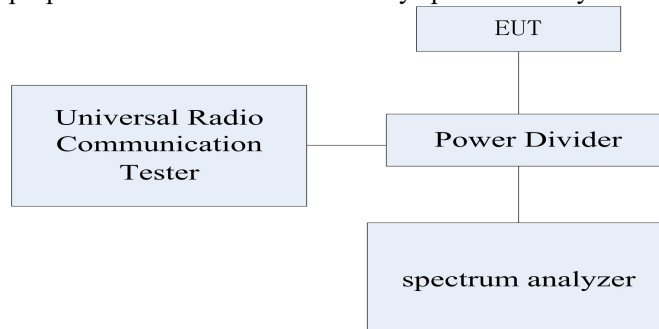
**According to Part 24.232(c)**, mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

**According to Part 27.50(c)**, 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.

**According to Part 27.50(d)**, fixed, mobile, and portable (hand-held) 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.

### Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



### Test Method:

- 1) The EUT was coupled to the spectrum analyzer and the Wireless Telecommunications Test Set through a power divider. The loss of the RF cables of the test system is calibrated to correct the readings.
- 2) For RMS power test, the spectrum analyzer was set to RMS Detector function and Maximum hold mode.
- 3) For Peak power test, the spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

**Note: --**

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### 6.1.1 GSM850 Conducted RF Power Output Results

#### GPRS GMSK Mode:

| Channel No.                     | Maximum output power(pk) [dBm] |      |      |      |
|---------------------------------|--------------------------------|------|------|------|
|                                 | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>128</b><br><b>(824.2MHz)</b> | 32.4                           | 32.2 | 30.5 | 28.4 |
| <b>190</b><br><b>(836.6MHz)</b> | 32.7                           | 32.4 | 30.8 | 28.6 |
| <b>251</b><br><b>(848.8MHz)</b> | 32.9                           | 32.7 | 31.1 | 28.9 |

| Channel No.                     | Maximum output power(avg) [dBm] |      |      |      |
|---------------------------------|---------------------------------|------|------|------|
|                                 | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>128</b><br><b>(824.2MHz)</b> | 32.2                            | 32.1 | 30.3 | 28.3 |
| <b>190</b><br><b>(836.6MHz)</b> | 32.5                            | 32.3 | 30.5 | 28.4 |
| <b>251</b><br><b>(848.8MHz)</b> | 32.7                            | 32.5 | 31.0 | 28.7 |

#### EGPRS GMSK Mode

| Channel No.                     | Maximum output power(pk) [dBm] |      |      |      |
|---------------------------------|--------------------------------|------|------|------|
|                                 | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>128</b><br><b>(824.2MHz)</b> | 34.1                           | 32.9 | 32.7 | 32.5 |
| <b>190</b><br><b>(836.6MHz)</b> | 33.8                           | 32.9 | 32.6 | 32.4 |
| <b>251</b><br><b>(848.8MHz)</b> | 33.3                           | 32.4 | 32.2 | 31.9 |

| Channel No.                     | Maximum output power(avg) [dBm] |      |      |      |
|---------------------------------|---------------------------------|------|------|------|
|                                 | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>128</b><br><b>(824.2MHz)</b> | 34.0                            | 32.8 | 32.5 | 32.4 |
| <b>190</b><br><b>(836.6MHz)</b> | 33.7                            | 32.7 | 32.5 | 32.2 |
| <b>251</b><br><b>(848.8MHz)</b> | 33.2                            | 32.3 | 32.1 | 31.8 |

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### EGPRS 8PSK Mode

| Channel No.              | Maximum output power(pk) [dBm] |      |      |      |
|--------------------------|--------------------------------|------|------|------|
|                          | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>128</b><br>(824.2MHz) | 30.4                           | 29.4 | 29.3 | 29.2 |
| <b>190</b><br>(836.6MHz) | 30.3                           | 29.2 | 29.1 | 29.0 |
| <b>251</b><br>(848.8MHz) | 30.0                           | 29.0 | 28.8 | 28.7 |

| Channel No.              | Maximum output power(avg) [dBm] |      |      |      |
|--------------------------|---------------------------------|------|------|------|
|                          | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>128</b><br>(824.2MHz) | 30.2                            | 29.2 | 29.2 | 29.0 |
| <b>190</b><br>(836.6MHz) | 30.2                            | 29.1 | 29.0 | 28.9 |
| <b>251</b><br>(848.8MHz) | 29.9                            | 28.9 | 28.6 | 28.6 |

### 6.1.2 PCS1900 Conducted RF Power Output Results

#### GPRS GMSK Mode

| Channel No.               | Maximum output power(pk) [dBm] |      |      |      |
|---------------------------|--------------------------------|------|------|------|
|                           | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 30.1                           | 30.0 | 28.4 | 26.8 |
| <b>661</b><br>(1880.0MHz) | 30.0                           | 29.8 | 28.1 | 26.6 |
| <b>810</b><br>(1909.8MHz) | 30.0                           | 29.9 | 28.4 | 26.4 |

| Channel No.               | Maximum output power(avg) [dBm] |      |      |      |
|---------------------------|---------------------------------|------|------|------|
|                           | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 30.0                            | 29.9 | 28.2 | 26.6 |
| <b>661</b><br>(1880.0MHz) | 29.8                            | 29.7 | 28.0 | 26.5 |
| <b>810</b><br>(1909.8MHz) | 29.8                            | 29.8 | 28.2 | 26.3 |

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### EGPRS GMSK Mode

| Channel No.               | Maximum output power(pk) [dBm] |      |      |      |
|---------------------------|--------------------------------|------|------|------|
|                           | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 30.9                           | 30.3 | 30.2 | 30.0 |
| <b>661</b><br>(1880.0MHz) | 31.1                           | 30.5 | 30.4 | 30.3 |
| <b>810</b><br>(1909.8MHz) | 30.7                           | 29.8 | 29.7 | 29.9 |

| Channel No.               | Maximum output power(avg) [dBm] |      |      |      |
|---------------------------|---------------------------------|------|------|------|
|                           | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 30.7                            | 30.1 | 30.1 | 29.8 |
| <b>661</b><br>(1880.0MHz) | 31.0                            | 30.4 | 30.3 | 30.1 |
| <b>810</b><br>(1909.8MHz) | 30.6                            | 29.7 | 29.5 | 29.8 |

### EGPRS 8PSK Mode

| Channel No.               | Maximum output power(pk) [dBm] |      |      |      |
|---------------------------|--------------------------------|------|------|------|
|                           | 1TS                            | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 29.5                           | 28.5 | 28.5 | 28.3 |
| <b>661</b><br>(1880.0MHz) | 29.7                           | 28.8 | 28.8 | 28.6 |
| <b>810</b><br>(1909.8MHz) | 29.4                           | 28.4 | 28.4 | 28.3 |

| Channel No.               | Maximum output power(avg) [dBm] |      |      |      |
|---------------------------|---------------------------------|------|------|------|
|                           | 1TS                             | 2TS  | 3TS  | 4TS  |
| <b>512</b><br>(1850.2MHz) | 29.4                            | 28.4 | 28.3 | 28.1 |
| <b>661</b><br>(1880.0MHz) | 29.5                            | 28.6 | 28.5 | 28.3 |
| <b>810</b><br>(1909.8MHz) | 29.3                            | 28.2 | 28.2 | 28.2 |

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### 6.1.3 LTE B2 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18607   | 1850.7          | 1     | 0        | QPSK       | 22.71          | 27.80          | 5.09 |
|         |                 | 1     | 2        |            | 22.66          | 27.91          | 5.25 |
|         |                 | 1     | 5        |            | 22.79          | 27.93          | 5.14 |
|         |                 | 6     | 0        |            | 21.43          | 27.22          | 5.79 |
|         |                 | 1     | 0        | 16QAM      | 21.62          | 26.64          | 5.02 |
|         |                 | 1     | 2        |            | 21.59          | 26.48          | 4.89 |
|         |                 | 1     | 5        |            | 21.62          | 26.59          | 4.97 |
|         |                 | 6     | 0        |            | 20.55          | 27.59          | 7.04 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.49          | 27.76          | 5.27 |
|         |                 | 1     | 2        |            | 22.38          | 27.71          | 5.33 |
|         |                 | 1     | 5        |            | 22.43          | 27.71          | 5.28 |
|         |                 | 6     | 0        |            | 21.42          | 27.85          | 6.43 |
|         |                 | 1     | 0        | 16QAM      | 21.66          | 27.22          | 5.56 |
|         |                 | 1     | 2        |            | 21.57          | 27.11          | 5.54 |
|         |                 | 1     | 5        |            | 21.64          | 27.12          | 5.48 |
|         |                 | 6     | 0        |            | 20.42          | 27.79          | 7.37 |
| 19193   | 1909.3          | 1     | 0        | QPSK       | 22.10          | 26.72          | 4.62 |
|         |                 | 1     | 2        |            | 21.97          | 26.55          | 4.58 |
|         |                 | 1     | 5        |            | 21.70          | 26.56          | 4.86 |
|         |                 | 6     | 0        |            | 21.02          | 26.76          | 5.74 |
|         |                 | 1     | 0        | 16QAM      | 21.33          | 26.09          | 4.76 |
|         |                 | 1     | 2        |            | 21.17          | 25.96          | 4.79 |
|         |                 | 1     | 5        |            | 21.03          | 25.96          | 4.93 |
|         |                 | 6     | 0        |            | 20.05          | 26.67          | 6.62 |

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## Test Data (3MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18615   | 1851.5          | 1     | 0        | QPSK       | 22.89          | 27.83          | 4.94 |
|         |                 | 1     | 8        |            | 22.84          | 27.86          | 5.02 |
|         |                 | 1     | 15       |            | 22.85          | 27.96          | 5.11 |
|         |                 | 15    | 0        |            | 21.35          | 27.79          | 6.43 |
|         |                 | 1     | 0        | 16QAM      | 22.03          | 27.66          | 5.63 |
|         |                 | 1     | 8        |            | 21.87          | 27.56          | 5.69 |
|         |                 | 1     | 15       |            | 21.98          | 27.68          | 5.70 |
|         |                 | 15    | 0        |            | 20.42          | 28.52          | 8.10 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.71          | 27.83          | 5.12 |
|         |                 | 1     | 8        |            | 22.48          | 27.58          | 5.10 |
|         |                 | 1     | 15       |            | 22.73          | 27.92          | 5.19 |
|         |                 | 15    | 0        |            | 21.43          | 27.49          | 6.06 |
|         |                 | 1     | 0        | 16QAM      | 21.70          | 27.70          | 6.00 |
|         |                 | 1     | 8        |            | 21.66          | 27.65          | 5.99 |
|         |                 | 1     | 15       |            | 21.73          | 27.80          | 6.07 |
|         |                 | 15    | 0        |            | 20.43          | 28.08          | 7.65 |
| 19185   | 1908.5          | 1     | 0        | QPSK       | 22.82          | 27.52          | 4.70 |
|         |                 | 1     | 8        |            | 22.30          | 27.12          | 4.82 |
|         |                 | 1     | 15       |            | 21.62          | 26.99          | 5.37 |
|         |                 | 15    | 0        |            | 21.19          | 27.14          | 5.95 |
|         |                 | 1     | 0        | 16QAM      | 21.92          | 26.85          | 4.93 |
|         |                 | 1     | 8        |            | 21.33          | 26.43          | 5.10 |
|         |                 | 1     | 15       |            | 20.66          | 26.20          | 5.54 |
|         |                 | 15    | 0        |            | 20.34          | 26.92          | 6.58 |

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## Test Data (5MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18625   | 1852.5          | 1     | 0        | QPSK       | 22.99          | 27.95          | 4.96 |
|         |                 | 1     | 13       |            | 22.82          | 27.89          | 5.07 |
|         |                 | 1     | 24       |            | 22.79          | 27.95          | 5.16 |
|         |                 | 25    | 0        |            | 21.37          | 28.02          | 6.65 |
|         |                 | 1     | 0        | 16QAM      | 22.03          | 27.63          | 5.60 |
|         |                 | 1     | 13       |            | 21.90          | 27.61          | 5.71 |
|         |                 | 1     | 24       |            | 21.96          | 27.73          | 5.77 |
|         |                 | 25    | 0        |            | 20.43          | 28.40          | 7.97 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.71          | 27.79          | 5.08 |
|         |                 | 1     | 13       |            | 22.49          | 27.59          | 5.10 |
|         |                 | 1     | 24       |            | 22.70          | 27.85          | 5.15 |
|         |                 | 25    | 0        |            | 21.41          | 27.31          | 5.90 |
|         |                 | 1     | 0        | 16QAM      | 21.77          | 27.73          | 5.96 |
|         |                 | 1     | 13       |            | 21.64          | 27.64          | 6.00 |
|         |                 | 1     | 24       |            | 21.71          | 27.77          | 6.06 |
|         |                 | 25    | 0        |            | 20.51          | 28.07          | 7.56 |
| 19175   | 1907.5          | 1     | 0        | QPSK       | 22.96          | 27.62          | 4.66 |
|         |                 | 1     | 13       |            | 22.57          | 27.25          | 4.68 |
|         |                 | 1     | 24       |            | 22.01          | 27.07          | 5.06 |
|         |                 | 25    | 0        |            | 21.43          | 27.29          | 5.86 |
|         |                 | 1     | 0        | 16QAM      | 21.94          | 26.90          | 4.96 |
|         |                 | 1     | 13       |            | 21.65          | 26.61          | 4.96 |
|         |                 | 1     | 24       |            | 21.11          | 26.40          | 5.29 |
|         |                 | 25    | 0        |            | 20.56          | 27.50          | 6.94 |

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## Test Data (10MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18650   | 1855            | 1     | 0        | QPSK       | 22.89          | 27.97          | 5.08 |
|         |                 | 1     | 25       |            | 22.74          | 28.04          | 5.30 |
|         |                 | 1     | 49       |            | 22.89          | 28.16          | 5.27 |
|         |                 | 50    | 0        |            | 21.27          | 27.63          | 6.36 |
|         |                 | 1     | 0        | 16QAM      | 21.97          | 26.81          | 4.84 |
|         |                 | 1     | 25       |            | 21.69          | 26.61          | 4.92 |
|         |                 | 1     | 49       |            | 21.85          | 26.86          | 5.01 |
|         |                 | 27    | 0        |            | 20.23          | 27.36          | 7.13 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.77          | 27.73          | 4.96 |
|         |                 | 1     | 25       |            | 22.43          | 27.56          | 5.13 |
|         |                 | 1     | 49       |            | 22.66          | 27.85          | 5.19 |
|         |                 | 50    | 0        |            | 21.19          | 27.28          | 6.09 |
|         |                 | 1     | 0        | 16QAM      | 21.77          | 26.56          | 4.79 |
|         |                 | 1     | 25       |            | 21.60          | 26.33          | 4.73 |
|         |                 | 1     | 49       |            | 21.61          | 26.55          | 4.94 |
|         |                 | 27    | 0        |            | 20.98          | 26.25          | 5.27 |
| 19150   | 1905            | 1     | 0        | QPSK       | 22.57          | 27.57          | 5.00 |
|         |                 | 1     | 25       |            | 22.85          | 27.17          | 4.32 |
|         |                 | 1     | 49       |            | 22.12          | 26.74          | 4.62 |
|         |                 | 50    | 0        |            | 21.47          | 27.25          | 5.78 |
|         |                 | 1     | 0        | 16QAM      | 21.72          | 26.79          | 5.07 |
|         |                 | 1     | 25       |            | 22.03          | 26.56          | 4.53 |
|         |                 | 1     | 49       |            | 21.43          | 26.21          | 4.78 |
|         |                 | 27    | 0        |            | 21.12          | 26.31          | 5.19 |

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**Test Data (15MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18675   | 1857.5          | 1     | 0        |            | 21.66          | 26.69          | 5.03 |
|         |                 | 1     | 38       |            | 22.84          | 27.97          | 5.13 |
|         |                 | 1     | 74       |            | 22.85          | 28.06          | 5.21 |
|         |                 | 75    | 0        |            | 21.31          | 28.20          | 6.89 |
|         |                 | 1     | 0        | 16QAMQPSK  | 21.85          | 26.73          | 4.88 |
|         |                 | 1     | 38       |            | 21.65          | 26.76          | 5.11 |
|         |                 | 1     | 74       |            | 21.73          | 26.72          | 4.99 |
|         |                 | 27    | 0        |            | 20.67          | 26.65          | 5.98 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.70          | 27.37          | 4.67 |
|         |                 | 1     | 38       |            | 22.53          | 27.25          | 4.72 |
|         |                 | 1     | 74       |            | 22.54          | 27.49          | 4.95 |
|         |                 | 75    | 0        |            | 21.28          | 27.86          | 6.58 |
|         |                 | 1     | 0        | 16QAM      | 22.26          | 27.03          | 4.77 |
|         |                 | 1     | 38       |            | 22.17          | 26.93          | 4.76 |
|         |                 | 1     | 74       |            | 22.0           | 27.04          | 5.04 |
|         |                 | 27    | 0        |            | 21.45          | 26.89          | 5.44 |
| 19125   | 1902.5          | 1     | 0        | QPSK       | 22.13          | 27.44          | 5.31 |
|         |                 | 1     | 38       |            | 22.75          | 27.21          | 4.46 |
|         |                 | 1     | 74       |            | 22.14          | 26.61          | 4.47 |
|         |                 | 75    | 0        |            | 21.41          | 28.02          | 6.61 |
|         |                 | 1     | 0        | 16QAM      | 21.78          | 28.28          | 6.50 |
|         |                 | 1     | 38       |            | 22.36          | 27.86          | 5.50 |
|         |                 | 1     | 74       |            | 21.78          | 27.03          | 5.25 |
|         |                 | 27    | 0        |            | 21.42          | 26.72          | 5.30 |

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## Test Data (20MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 18700   | 1860            | 1     | 0        | QPSK       | 22.97          | 27.71          | 4.74 |
|         |                 | 1     | 50       |            | 22.89          | 27.89          | 5.00 |
|         |                 | 1     | 99       |            | 22.88          | 27.68          | 4.80 |
|         |                 | 100   | 0        |            | 21.46          | 27.93          | 6.47 |
|         |                 | 1     | 0        | 16QAM      | 21.99          | 28.11          | 6.12 |
|         |                 | 1     | 50       |            | 21.94          | 28.37          | 6.43 |
|         |                 | 1     | 99       |            | 21.78          | 28.01          | 6.23 |
|         |                 | 27    | 0        |            | 21.34          | 27.97          | 6.63 |
| 18900   | 1880            | 1     | 0        | QPSK       | 22.69          | 27.72          | 5.03 |
|         |                 | 1     | 50       |            | 22.61          | 27.59          | 4.98 |
|         |                 | 1     | 99       |            | 22.52          | 27.94          | 5.42 |
|         |                 | 100   | 0        |            | 21.10          | 27.34          | 6.24 |
|         |                 | 1     | 0        | 16QAM      | 21.83          | 27.44          | 5.61 |
|         |                 | 1     | 50       |            | 21.94          | 27.36          | 5.42 |
|         |                 | 1     | 99       |            | 21.57          | 27.56          | 5.99 |
|         |                 | 27    | 0        |            | 21.48          | 26.68          | 5.20 |
| 19100   | 1900            | 1     | 0        | QPSK       | 22.38          | 27.61          | 5.23 |
|         |                 | 1     | 50       |            | 22.62          | 27.56          | 4.94 |
|         |                 | 1     | 99       |            | 22.35          | 26.74          | 4.39 |
|         |                 | 100   | 0        |            | 21.22          | 27.50          | 6.28 |
|         |                 | 1     | 0        | 16QAM      | 21.51          | 27.73          | 6.22 |
|         |                 | 1     | 50       |            | 21.73          | 28.03          | 6.30 |
|         |                 | 1     | 99       |            | 21.56          | 27.60          | 6.04 |
|         |                 | 27    | 0        |            | 20.77          | 26.89          | 6.12 |

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### 6.1.4 LTE B4 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 19957   | 1710.7          | 1     | 0        | QPSK       | 22.88          | 27.95          | 5.07 |
|         |                 | 1     | 2        |            | 22.86          | 27.95          | 5.09 |
|         |                 | 1     | 5        |            | 22.96          | 28.05          | 5.09 |
|         |                 | 6     | 0        |            | 21.72          | 28.06          | 6.34 |
|         |                 | 1     | 0        | 16QAM      | 21.93          | 27.61          | 5.68 |
|         |                 | 1     | 2        |            | 21.99          | 27.58          | 5.59 |
|         |                 | 1     | 5        |            | 22.08          | 27.66          | 5.58 |
|         |                 | 6     | 0        |            | 20.91          | 28.38          | 7.47 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.26          | 27.86          | 5.60 |
|         |                 | 1     | 2        |            | 22.16          | 27.85          | 5.69 |
|         |                 | 1     | 5        |            | 22.21          | 27.89          | 5.68 |
|         |                 | 6     | 0        |            | 21.02          | 27.30          | 6.28 |
|         |                 | 1     | 0        | 16QAM      | 21.36          | 26.78          | 5.42 |
|         |                 | 1     | 2        |            | 21.35          | 26.68          | 5.33 |
|         |                 | 1     | 5        |            | 21.38          | 26.84          | 5.46 |
|         |                 | 6     | 0        |            | 20.35          | 27.69          | 7.34 |
| 20393   | 1754.3          | 1     | 0        | QPSK       | 22.96          | 27.92          | 4.96 |
|         |                 | 1     | 2        |            | 22.95          | 27.85          | 4.90 |
|         |                 | 1     | 5        |            | 22.87          | 27.86          | 4.99 |
|         |                 | 6     | 0        |            | 22.04          | 28.05          | 6.01 |
|         |                 | 1     | 0        | 16QAM      | 22.32          | 27.45          | 5.13 |
|         |                 | 1     | 2        |            | 22.37          | 27.41          | 5.04 |
|         |                 | 1     | 5        |            | 22.33          | 27.46          | 5.13 |
|         |                 | 6     | 0        |            | 21.20          | 28.16          | 6.96 |

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**Test Data (3MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 19965   | 1711.5          | 1     | 0        | QPSK       | 22.74          | 27.71          | 4.97 |
|         |                 | 1     | 8        |            | 22.89          | 27.76          | 4.87 |
|         |                 | 1     | 15       |            | 22.84          | 27.77          | 4.93 |
|         |                 | 15    | 0        |            | 21.76          | 28.53          | 6.77 |
|         |                 | 1     | 0        | 16QAM      | 22.02          | 27.18          | 5.16 |
|         |                 | 1     | 8        |            | 22.23          | 27.26          | 5.03 |
|         |                 | 1     | 15       |            | 22.17          | 27.36          | 5.19 |
|         |                 | 15    | 0        |            | 21.01          | 28.02          | 7.01 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.78          | 27.45          | 4.67 |
|         |                 | 1     | 8        |            | 22.88          | 27.52          | 4.64 |
|         |                 | 1     | 15       |            | 22.94          | 27.63          | 4.69 |
|         |                 | 15    | 0        |            | 21.73          | 28.18          | 6.45 |
|         |                 | 1     | 0        | 16QAM      | 22.30          | 27.77          | 5.47 |
|         |                 | 1     | 8        |            | 22.57          | 27.96          | 5.39 |
|         |                 | 1     | 15       |            | 22.54          | 28.07          | 5.53 |
|         |                 | 15    | 0        |            | 20.92          | 27.94          | 7.02 |
| 20385   | 1753.5          | 1     | 0        | QPSK       | 23.13          | 28.13          | 5.00 |
|         |                 | 1     | 8        |            | 23.07          | 27.97          | 4.90 |
|         |                 | 1     | 15       |            | 22.90          | 27.98          | 5.08 |
|         |                 | 15    | 0        |            | 22.08          | 28.24          | 6.16 |
|         |                 | 1     | 0        | 16QAM      | 22.25          | 27.29          | 5.04 |
|         |                 | 1     | 8        |            | 22.30          | 27.35          | 5.05 |
|         |                 | 1     | 15       |            | 22.05          | 27.13          | 5.08 |
|         |                 | 15    | 0        |            | 21.18          | 28.14          | 6.96 |

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**Test Data (5MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 19975   | 1712.5          | 1     | 0        | QPSK       | 23.01          | 28.22          | 5.21 |
|         |                 | 1     | 13       |            | 22.98          | 28.28          | 5.30 |
|         |                 | 1     | 24       |            | 23.08          | 28.42          | 5.34 |
|         |                 | 25    | 0        |            | 21.80          | 28.19          | 6.39 |
|         |                 | 1     | 0        | 16QAM      | 21.95          | 27.51          | 5.56 |
|         |                 | 1     | 13       |            | 22.15          | 27.63          | 5.48 |
|         |                 | 1     | 24       |            | 22.21          | 27.78          | 5.57 |
|         |                 | 25    | 0        |            | 21.04          | 28.59          | 7.55 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.40          | 27.92          | 5.52 |
|         |                 | 1     | 13       |            | 22.36          | 27.82          | 5.46 |
|         |                 | 1     | 24       |            | 22.39          | 27.89          | 5.50 |
|         |                 | 25    | 0        |            | 21.04          | 27.50          | 6.46 |
|         |                 | 1     | 0        | 16QAM      | 21.42          | 27.88          | 6.46 |
|         |                 | 1     | 13       |            | 21.32          | 27.84          | 6.52 |
|         |                 | 1     | 24       |            | 21.41          | 27.91          | 6.50 |
|         |                 | 25    | 0        |            | 20.21          | 28.45          | 8.24 |
| 20375   | 1752.5          | 1     | 0        | QPSK       | 23.09          | 28.58          | 5.49 |
|         |                 | 1     | 13       |            | 23.18          | 28.51          | 5.33 |
|         |                 | 1     | 24       |            | 23.02          | 28.51          | 5.49 |
|         |                 | 25    | 0        |            | 22.15          | 28.44          | 6.29 |
|         |                 | 1     | 0        | 16QAM      | 22.31          | 27.88          | 5.57 |
|         |                 | 1     | 13       |            | 22.36          | 27.80          | 5.44 |
|         |                 | 1     | 24       |            | 22.21          | 27.75          | 5.54 |
|         |                 | 25    | 0        |            | 21.25          | 27.79          | 6.54 |

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**Test Data (10MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20000   | 1715            | 1     | 0        | QPSK       | 23.16          | 27.91          | 4.75 |
|         |                 | 1     | 25       |            | 23.17          | 28.04          | 4.87 |
|         |                 | 1     | 49       |            | 22.76          | 27.94          | 5.18 |
|         |                 | 50    | 0        |            | 21.78          | 27.88          | 6.10 |
|         |                 | 1     | 0        | 16QAM      | 22.14          | 27.12          | 4.98 |
|         |                 | 1     | 25       |            | 22.36          | 27.24          | 4.88 |
|         |                 | 1     | 49       |            | 21.92          | 27.12          | 5.20 |
|         |                 | 27    | 0        |            | 21.78          | 26.64          | 4.86 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.42          | 27.72          | 5.30 |
|         |                 | 1     | 25       |            | 22.24          | 27.62          | 5.38 |
|         |                 | 1     | 49       |            | 22.53          | 27.76          | 5.23 |
|         |                 | 50    | 0        |            | 20.94          | 27.32          | 6.38 |
|         |                 | 1     | 0        | 16QAM      | 21.67          | 27.18          | 5.51 |
|         |                 | 1     | 25       |            | 21.50          | 27.03          | 5.53 |
|         |                 | 1     | 49       |            | 21.80          | 27.23          | 5.43 |
|         |                 | 27    | 0        |            | 20.93          | 26.49          | 5.56 |
| 20350   | 1750            | 1     | 0        | QPSK       | 22.97          | 27.89          | 4.92 |
|         |                 | 1     | 25       |            | 23.04          | 27.77          | 4.73 |
|         |                 | 1     | 49       |            | 22.95          | 27.76          | 4.81 |
|         |                 | 50    | 0        |            | 21.98          | 28.28          | 6.30 |
|         |                 | 1     | 0        | 16QAM      | 22.49          | 28.39          | 5.90 |
|         |                 | 1     | 25       |            | 22.85          | 28.40          | 5.55 |
|         |                 | 1     | 49       |            | 22.80          | 27.35          | 4.55 |
|         |                 | 27    | 0        |            | 21.32          | 26.72          | 5.40 |

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**Test Data (15MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20025   | 1717.5          | 1     | 0        | QPSK       | 22.99          | 27.69          | 4.70 |
|         |                 | 1     | 38       |            | 22.89          | 27.71          | 4.82 |
|         |                 | 1     | 74       |            | 22.51          | 27.58          | 5.07 |
|         |                 | 75    | 0        |            | 21.53          | 28.17          | 6.64 |
|         |                 | 1     | 0        | 16QAM      | 22.58          | 27.41          | 4.83 |
|         |                 | 1     | 38       |            | 22.67          | 27.58          | 4.91 |
|         |                 | 1     | 74       |            | 22.20          | 27.39          | 5.19 |
|         |                 | 27    | 0        |            | 21.89          | 27.21          | 5.32 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.37          | 27.56          | 5.19 |
|         |                 | 1     | 38       |            | 22.28          | 27.45          | 5.17 |
|         |                 | 1     | 74       |            | 22.73          | 27.71          | 4.98 |
|         |                 | 75    | 0        |            | 21.17          | 28.41          | 7.24 |
|         |                 | 1     | 0        | 16QAM      | 22.09          | 28.04          | 5.95 |
|         |                 | 1     | 38       |            | 22.01          | 28.10          | 6.09 |
|         |                 | 1     | 74       |            | 22.74          | 28.24          | 5.50 |
|         |                 | 27    | 0        |            | 21.87          | 27.72          | 5.85 |
| 20325   | 1747.5          | 1     | 0        | QPSK       | 23.00          | 28.10          | 5.10 |
|         |                 | 1     | 38       |            | 23.05          | 28.07          | 5.02 |
|         |                 | 1     | 74       |            | 23.10          | 28.01          | 4.91 |
|         |                 | 75    | 0        |            | 21.96          | 28.62          | 6.66 |
|         |                 | 1     | 0        | 16QAM      | 22.01          | 27.20          | 5.19 |
|         |                 | 1     | 38       |            | 22.32          | 27.33          | 5.01 |
|         |                 | 1     | 74       |            | 22.34          | 27.25          | 4.91 |
|         |                 | 27    | 0        |            | 21.96          | 27.71          | 5.75 |

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## Test Data (20MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20050   | 1720            | 1     | 0        | QPSK       | 23.16          | 27.89          | 4.73 |
|         |                 | 1     | 50       |            | 22.49          | 27.80          | 5.31 |
|         |                 | 1     | 99       |            | 22.39          | 27.79          | 5.40 |
|         |                 | 100   | 0        |            | 20.99          | 27.57          | 6.58 |
|         |                 | 1     | 0        | 16QAM      | 22.30          | 27.78          | 5.48 |
|         |                 | 1     | 50       |            | 21.98          | 27.76          | 5.78 |
|         |                 | 1     | 99       |            | 21.61          | 27.66          | 6.05 |
|         |                 | 27    | 0        |            | 21.14          | 27.21          | 6.07 |
| 20175   | 1732.5          | 1     | 0        | QPSK       | 22.63          | 27.73          | 5.10 |
|         |                 | 1     | 50       |            | 22.49          | 27.70          | 5.21 |
|         |                 | 1     | 99       |            | 23.01          | 27.96          | 4.95 |
|         |                 | 100   | 0        |            | 21.21          | 28.18          | 6.97 |
|         |                 | 1     | 0        | 16QAM      | 21.85          | 28.02          | 6.17 |
|         |                 | 1     | 50       |            | 21.66          | 28.04          | 6.38 |
|         |                 | 1     | 99       |            | 22.25          | 28.30          | 6.05 |
|         |                 | 27    | 0        |            | 21.11          | 27.78          | 6.67 |
| 20300   | 1745            | 1     | 0        | QPSK       | 22.45          | 27.82          | 5.37 |
|         |                 | 1     | 50       |            | 22.89          | 28.08          | 5.19 |
|         |                 | 1     | 99       |            | 23.01          | 28.00          | 4.99 |
|         |                 | 100   | 0        |            | 21.98          | 28.38          | 6.40 |
|         |                 | 1     | 0        | 16QAM      | 22.03          | 27.73          | 5.70 |
|         |                 | 1     | 50       |            | 22.41          | 27.96          | 5.55 |
|         |                 | 1     | 99       |            | 22.67          | 27.96          | 5.29 |
|         |                 | 27    | 0        |            | 21.34          | 27.56          | 6.22 |

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### 6.1.5 LTE B5 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20407   | 824.7           | 1     | 0        | QPSK       | 22.70          | 27.62          | 4.92 |
|         |                 | 1     | 2        |            | 22.76          | 27.66          | 4.90 |
|         |                 | 1     | 5        |            | 22.71          | 27.68          | 4.97 |
|         |                 | 6     | 0        |            | 21.76          | 27.65          | 5.89 |
|         |                 | 1     | 0        | 16QAM      | 22.03          | 27.09          | 5.06 |
|         |                 | 1     | 2        |            | 22.12          | 27.14          | 5.02 |
|         |                 | 1     | 5        |            | 22.12          | 27.16          | 5.04 |
|         |                 | 6     | 0        |            | 20.91          | 27.84          | 6.93 |
| 20525   | 836.5           | 1     | 0        | QPSK       | 22.69          | 27.96          | 5.27 |
|         |                 | 1     | 2        |            | 22.57          | 27.92          | 5.35 |
|         |                 | 1     | 5        |            | 22.60          | 27.95          | 5.35 |
|         |                 | 6     | 0        |            | 21.65          | 28.06          | 6.41 |
|         |                 | 1     | 0        | 16QAM      | 21.85          | 27.47          | 5.62 |
|         |                 | 1     | 2        |            | 21.83          | 27.52          | 5.69 |
|         |                 | 1     | 5        |            | 21.84          | 27.49          | 5.65 |
|         |                 | 6     | 0        |            | 20.75          | 28.11          | 7.36 |
| 20643   | 848.3           | 1     | 0        | QPSK       | 22.34          | 27.54          | 5.20 |
|         |                 | 1     | 2        |            | 22.31          | 27.45          | 5.14 |
|         |                 | 1     | 5        |            | 22.31          | 27.46          | 5.15 |
|         |                 | 6     | 0        |            | 21.30          | 27.11          | 5.81 |
|         |                 | 1     | 0        | 16QAM      | 21.47          | 26.46          | 4.99 |
|         |                 | 1     | 2        |            | 21.43          | 26.48          | 5.05 |
|         |                 | 1     | 5        |            | 21.42          | 26.40          | 4.98 |
|         |                 | 6     | 0        |            | 20.45          | 27.20          | 6.75 |

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## Test Data (3MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20415   | 825.5           | 1     | 0        | QPSK       | 22.89          | 27.07          | 4.18 |
|         |                 | 1     | 8        |            | 22.82          | 27.84          | 5.02 |
|         |                 | 1     | 15       |            | 22.82          | 27.83          | 5.01 |
|         |                 | 15    | 0        |            | 21.80          | 27.71          | 5.91 |
|         |                 | 1     | 0        | 16QAM      | 21.87          | 26.83          | 4.96 |
|         |                 | 1     | 8        |            | 21.98          | 26.87          | 4.89 |
|         |                 | 1     | 15       |            | 21.96          | 26.97          | 5.01 |
|         |                 | 15    | 0        |            | 21.96          | 28.38          | 6.42 |
| 20525   | 836.5           | 1     | 0        | QPSK       | 22.54          | 27.60          | 5.06 |
|         |                 | 1     | 8        |            | 22.59          | 27.55          | 4.96 |
|         |                 | 1     | 15       |            | 22.52          | 27.57          | 5.05 |
|         |                 | 15    | 0        |            | 21.61          | 28.73          | 7.12 |
|         |                 | 1     | 0        | 16QAM      | 21.87          | 27.02          | 5.15 |
|         |                 | 1     | 8        |            | 21.92          | 27.04          | 5.12 |
|         |                 | 1     | 15       |            | 21.84          | 26.95          | 5.11 |
|         |                 | 15    | 0        |            | 20.82          | 27.78          | 6.96 |
| 20635   | 847.5           | 1     | 0        | QPSK       | 22.28          | 27.21          | 4.93 |
|         |                 | 1     | 8        |            | 22.34          | 27.20          | 4.86 |
|         |                 | 1     | 15       |            | 22.18          | 27.11          | 4.93 |
|         |                 | 15    | 0        |            | 21.28          | 27.81          | 6.53 |
|         |                 | 1     | 0        | 16QAM      | 21.94          | 27.81          | 5.87 |
|         |                 | 1     | 8        |            | 22.02          | 27.81          | 5.79 |
|         |                 | 1     | 15       |            | 21.87          | 27.75          | 5.88 |
|         |                 | 15    | 0        |            | 20.44          | 27.39          | 6.95 |

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## Test Data (5MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20425   | 826.5           | 1     | 0        | QPSK       | 22.91          | 27.78          | 4.87 |
|         |                 | 1     | 13       |            | 22.93          | 27.83          | 4.90 |
|         |                 | 1     | 24       |            | 22.95          | 27.87          | 4.92 |
|         |                 | 25    | 0        |            | 21.80          | 28.33          | 6.53 |
|         |                 | 1     | 0        | 16QAM      | 22.21          | 27.72          | 5.51 |
|         |                 | 1     | 13       |            | 22.28          | 27.79          | 5.51 |
|         |                 | 1     | 24       |            | 22.31          | 27.85          | 5.54 |
|         |                 | 25    | 0        |            | 20.91          | 28.23          | 7.32 |
| 20525   | 836.5           | 1     | 0        | QPSK       | 22.62          | 28.24          | 5.62 |
|         |                 | 1     | 13       |            | 22.64          | 28.15          | 5.51 |
|         |                 | 1     | 24       |            | 22.58          | 28.22          | 5.64 |
|         |                 | 25    | 0        |            | 21.56          | 27.86          | 6.30 |
|         |                 | 1     | 0        | 16QAM      | 21.80          | 27.34          | 5.54 |
|         |                 | 1     | 13       |            | 21.78          | 27.28          | 5.50 |
|         |                 | 1     | 24       |            | 21.74          | 27.35          | 5.61 |
|         |                 | 25    | 0        |            | 20.74          | 28.24          | 7.50 |
| 20625   | 846.5           | 1     | 0        | QPSK       | 22.61          | 27.66          | 5.05 |
|         |                 | 1     | 13       |            | 22.48          | 27.47          | 4.99 |
|         |                 | 1     | 24       |            | 22.55          | 27.50          | 4.95 |
|         |                 | 25    | 0        |            | 21.30          | 28.04          | 6.74 |
|         |                 | 1     | 0        | 16QAM      | 21.84          | 27.49          | 5.65 |
|         |                 | 1     | 13       |            | 21.76          | 27.37          | 5.61 |
|         |                 | 1     | 24       |            | 21.71          | 27.34          | 5.63 |
|         |                 | 25    | 0        |            | 20.47          | 27.93          | 7.46 |

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## Test Data (10MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 20450   | 829             | 1     | 0        | QPSK       | 22.98          | 27.67          | 4.69 |
|         |                 | 1     | 25       |            | 22.82          | 27.61          | 4.79 |
|         |                 | 1     | 49       |            | 22.64          | 27.51          | 4.87 |
|         |                 | 50    | 0        |            | 21.66          | 27.65          | 5.99 |
|         |                 | 1     | 0        | 16QAM      | 22.47          | 28.04          | 5.57 |
|         |                 | 1     | 25       |            | 22.53          | 28.22          | 5.69 |
|         |                 | 1     | 49       |            | 22.39          | 28.16          | 5.77 |
|         |                 | 27    | 0        |            | 21.32          | 27.78          | 6.46 |
| 20525   | 836.5           | 1     | 0        | QPSK       | 22.85          | 27.88          | 5.03 |
|         |                 | 1     | 25       |            | 22.64          | 27.65          | 5.01 |
|         |                 | 1     | 49       |            | 22.70          | 27.83          | 5.13 |
|         |                 | 50    | 0        |            | 21.43          | 27.76          | 6.33 |
|         |                 | 1     | 0        | 16QAM      | 22.01          | 26.89          | 4.88 |
|         |                 | 1     | 25       |            | 21.83          | 26.76          | 4.93 |
|         |                 | 1     | 49       |            | 21.78          | 26.73          | 4.95 |
|         |                 | 27    | 0        |            | 21.56          | 26.21          | 4.65 |
| 20600   | 844             | 1     | 0        | QPSK       | 22.65          | 27.63          | 4.98 |
|         |                 | 1     | 25       |            | 22.50          | 27.46          | 4.96 |
|         |                 | 1     | 49       |            | 22.55          | 27.47          | 4.92 |
|         |                 | 50    | 0        |            | 21.26          | 27.09          | 5.83 |
|         |                 | 1     | 0        | 16QAM      | 21.85          | 26.97          | 5.12 |
|         |                 | 1     | 25       |            | 21.79          | 26.84          | 5.05 |
|         |                 | 1     | 49       |            | 21.64          | 26.69          | 5.05 |
|         |                 | 27    | 0        |            | 21.12          | 26.09          | 4.97 |

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### 6.1.6 LTE B66 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 131979  | 1710.7          | 1     | 0        | QPSK       | 23.02          | 28.02          | 5.00 |
|         |                 | 1     | 2        |            | 23.05          | 28.00          | 4.95 |
|         |                 | 1     | 5        |            | 23.22          | 28.10          | 4.88 |
|         |                 | 6     | 0        |            | 22.15          | 28.51          | 6.36 |
|         |                 | 1     | 0        | 16QAM      | 22.36          | 27.74          | 5.38 |
|         |                 | 1     | 2        |            | 22.40          | 27.71          | 5.31 |
|         |                 | 1     | 5        |            | 22.54          | 27.83          | 5.29 |
|         |                 | 6     | 0        |            | 21.30          | 28.54          | 7.24 |
| 132322  | 1745            | 1     | 0        | QPSK       | 22.91          | 28.15          | 5.24 |
|         |                 | 1     | 2        |            | 22.92          | 28.21          | 5.29 |
|         |                 | 1     | 5        |            | 23.04          | 28.23          | 5.19 |
|         |                 | 6     | 0        |            | 22.03          | 27.96          | 5.93 |
|         |                 | 1     | 0        | 16QAM      | 22.09          | 27.29          | 5.20 |
|         |                 | 1     | 2        |            | 22.17          | 27.21          | 5.04 |
|         |                 | 1     | 5        |            | 22.23          | 27.34          | 5.11 |
|         |                 | 6     | 0        |            | 21.26          | 28.30          | 7.04 |
| 132665  | 1779.3          | 1     | 0        | QPSK       | 23.26          | 27.90          | 4.64 |
|         |                 | 1     | 2        |            | 23.38          | 27.87          | 4.49 |
|         |                 | 1     | 5        |            | 23.38          | 27.88          | 4.50 |
|         |                 | 6     | 0        |            | 22.47          | 28.23          | 5.76 |
|         |                 | 1     | 0        | 16QAM      | 22.69          | 27.48          | 4.79 |
|         |                 | 1     | 2        |            | 22.71          | 27.48          | 4.77 |
|         |                 | 1     | 5        |            | 22.76          | 27.53          | 4.77 |
|         |                 | 6     | 0        |            | 21.69          | 28.70          | 7.01 |

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**Test Data (3MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 131987  | 1711.5          | 1     | 0        | QPSK       | 23.07          | 27.72          | 4.65 |
|         |                 | 1     | 8        |            | 23.16          | 27.70          | 4.54 |
|         |                 | 1     | 15       |            | 23.09          | 27.74          | 4.65 |
|         |                 | 15    | 0        |            | 22.13          | 28.08          | 5.95 |
|         |                 | 1     | 0        | 16QAM      | 22.74          | 27.98          | 5.24 |
|         |                 | 1     | 8        |            | 22.96          | 28.14          | 5.18 |
|         |                 | 1     | 15       |            | 22.92          | 28.21          | 5.29 |
|         |                 | 15    | 0        |            | 21.37          | 28.63          | 7.26 |
| 132322  | 1745            | 1     | 0        | QPSK       | 22.95          | 28.11          | 5.16 |
|         |                 | 1     | 8        |            | 23.08          | 28.05          | 4.97 |
|         |                 | 1     | 15       |            | 22.94          | 28.15          | 5.21 |
|         |                 | 15    | 0        |            | 21.92          | 27.88          | 5.96 |
|         |                 | 1     | 0        | 16QAM      | 22.16          | 27.24          | 5.08 |
|         |                 | 1     | 8        |            | 22.19          | 27.34          | 5.15 |
|         |                 | 1     | 15       |            | 22.22          | 27.31          | 5.09 |
|         |                 | 15    | 0        |            | 21.21          | 28.20          | 6.99 |
| 132657  | 1778.5          | 1     | 0        | QPSK       | 22.82          | 27.72          | 4.90 |
|         |                 | 1     | 8        |            | 23.25          | 27.81          | 4.56 |
|         |                 | 1     | 15       |            | 23.31          | 27.81          | 4.50 |
|         |                 | 15    | 0        |            | 22.30          | 28.78          | 6.48 |
|         |                 | 1     | 0        | 16QAM      | 22.33          | 27.31          | 4.98 |
|         |                 | 1     | 8        |            | 22.71          | 27.39          | 4.68 |
|         |                 | 1     | 15       |            | 22.78          | 27.51          | 4.73 |
|         |                 | 15    | 0        |            | 21.50          | 28.29          | 6.79 |

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**Test Data (5MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 131997  | 1712.5          | 1     | 0        | QPSK       | 23.25          | 27.75          | 4.50 |
|         |                 | 1     | 13       |            | 23.41          | 27.84          | 4.43 |
|         |                 | 1     | 24       |            | 23.37          | 27.92          | 4.55 |
|         |                 | 25    | 0        |            | 22.36          | 28.72          | 6.36 |
|         |                 | 1     | 0        | 16QAM      | 22.92          | 28.14          | 5.22 |
|         |                 | 1     | 13       |            | 23.15          | 28.25          | 5.10 |
|         |                 | 1     | 24       |            | 23.09          | 28.28          | 5.19 |
|         |                 | 25    | 0        |            | 21.54          | 28.75          | 7.21 |
| 132322  | 1745            | 1     | 0        | QPSK       | 23.09          | 28.55          | 5.46 |
|         |                 | 1     | 13       |            | 22.99          | 28.49          | 5.50 |
|         |                 | 1     | 24       |            | 23.15          | 28.61          | 5.46 |
|         |                 | 25    | 0        |            | 21.97          | 28.37          | 6.40 |
|         |                 | 1     | 0        | 16QAM      | 22.23          | 27.84          | 5.61 |
|         |                 | 1     | 13       |            | 22.21          | 27.76          | 5.55 |
|         |                 | 1     | 24       |            | 22.35          | 27.90          | 5.55 |
|         |                 | 25    | 0        |            | 21.25          | 28.84          | 7.59 |
| 132647  | 1777.5          | 1     | 0        | QPSK       | 22.86          | 27.87          | 5.01 |
|         |                 | 1     | 13       |            | 23.20          | 27.88          | 4.68 |
|         |                 | 1     | 24       |            | 23.56          | 27.98          | 4.42 |
|         |                 | 25    | 0        |            | 22.14          | 28.52          | 6.38 |
|         |                 | 1     | 0        | 16QAM      | 22.34          | 27.90          | 5.56 |
|         |                 | 1     | 13       |            | 22.67          | 27.91          | 5.24 |
|         |                 | 1     | 24       |            | 22.99          | 27.99          | 5.00 |
|         |                 | 25    | 0        |            | 21.37          | 28.17          | 6.80 |

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## Test Data (10MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 132022  | 1715            | 1     | 0        | QPSK       | 23.41          | 27.80          | 4.39 |
|         |                 | 1     | 25       |            | 23.44          | 27.87          | 4.43 |
|         |                 | 1     | 49       |            | 22.99          | 27.82          | 4.83 |
|         |                 | 50    | 0        |            | 22.22          | 28.36          | 6.14 |
|         |                 | 1     | 0        | 16QAM      | 23.00          | 28.11          | 5.11 |
|         |                 | 1     | 25       |            | 23.23          | 28.31          | 5.08 |
|         |                 | 1     | 49       |            | 22.70          | 28.24          | 5.54 |
|         |                 | 27    | 0        |            | 21.98          | 27.78          | 5.80 |
| 132322  | 1745            | 1     | 0        | QPSK       | 23.45          | 28.22          | 4.77 |
|         |                 | 1     | 25       |            | 23.10          | 28.17          | 5.07 |
|         |                 | 1     | 49       |            | 23.31          | 28.23          | 4.92 |
|         |                 | 50    | 0        |            | 22.06          | 28.23          | 6.17 |
|         |                 | 1     | 0        | 16QAM      | 22.62          | 27.51          | 4.89 |
|         |                 | 1     | 25       |            | 22.39          | 27.30          | 4.91 |
|         |                 | 1     | 49       |            | 22.57          | 27.48          | 4.91 |
|         |                 | 27    | 0        |            | 21.91          | 26.99          | 5.08 |
| 132622  | 1775            | 1     | 0        | QPSK       | 23.07          | 27.94          | 4.87 |
|         |                 | 1     | 25       |            | 22.88          | 27.75          | 4.87 |
|         |                 | 1     | 49       |            | 23.58          | 27.93          | 4.35 |
|         |                 | 50    | 0        |            | 21.82          | 28.00          | 6.18 |
|         |                 | 1     | 0        | 16QAM      | 22.24          | 27.47          | 5.23 |
|         |                 | 1     | 25       |            | 22.21          | 27.30          | 5.09 |
|         |                 | 1     | 49       |            | 22.91          | 27.58          | 4.67 |
|         |                 | 27    | 0        |            | 22.02          | 27.80          | 5.78 |

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## Test Data (15MHz bandwidth Mode)

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 132047  | 1717.5          | 1     | 0        | QPSK       | 22.90          | 27.64          | 4.74 |
|         |                 | 1     | 38       |            | 23.20          | 27.78          | 4.58 |
|         |                 | 1     | 74       |            | 22.69          | 27.67          | 4.98 |
|         |                 | 75    | 0        |            | 21.80          | 28.38          | 6.58 |
|         |                 | 1     | 0        | 16QAM      | 22.77          | 27.52          | 4.75 |
|         |                 | 1     | 38       |            | 22.94          | 27.71          | 4.77 |
|         |                 | 1     | 74       |            | 22.37          | 27.46          | 5.09 |
|         |                 | 27    | 0        |            | 21.98          | 27.17          | 5.19 |
| 132322  | 1745            | 1     | 0        | QPSK       | 22.91          | 27.81          | 4.90 |
|         |                 | 1     | 38       |            | 22.94          | 27.84          | 4.90 |
|         |                 | 1     | 74       |            | 23.45          | 28.02          | 4.57 |
|         |                 | 75    | 0        |            | 22.13          | 28.94          | 6.81 |
|         |                 | 1     | 0        | 16QAM      | 22.64          | 28.24          | 5.60 |
|         |                 | 1     | 38       |            | 22.85          | 28.49          | 5.64 |
|         |                 | 1     | 74       |            | 23.26          | 28.56          | 5.30 |
|         |                 | 27    | 0        |            | 21.86          | 27.78          | 5.92 |
| 132597  | 1772.5          | 1     | 0        | QPSK       | 22.55          | 27.89          | 5.34 |
|         |                 | 1     | 38       |            | 22.65          | 27.79          | 5.14 |
|         |                 | 1     | 74       |            | 23.40          | 28.00          | 4.60 |
|         |                 | 75    | 0        |            | 22.01          | 28.76          | 6.75 |
|         |                 | 1     | 0        | 16QAM      | 21.93          | 27.10          | 5.17 |
|         |                 | 1     | 38       |            | 21.96          | 27.05          | 5.09 |
|         |                 | 1     | 74       |            | 22.67          | 27.29          | 4.62 |
|         |                 | 27    | 0        |            | 21.23          | 27.73          | 6.50 |

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**Test Data (20MHz bandwidth Mode)**

| Channel | Frequency (MHz) | No.RB | RB START | Modulation | Max Power(RMS) | Max Power (PK) | PAR  |
|---------|-----------------|-------|----------|------------|----------------|----------------|------|
| 132072  | 1720            | 1     | 0        | QPSK       | 23.29          | 27.90          | 4.61 |
|         |                 | 1     | 50       |            | 22.85          | 27.91          | 5.06 |
|         |                 | 1     | 99       |            | 22.61          | 27.84          | 5.23 |
|         |                 | 100   | 0        |            | 21.25          | 27.70          | 6.45 |
|         |                 | 1     | 0        | 16QAM      | 22.56          | 27.83          | 5.27 |
|         |                 | 1     | 50       |            | 22.36          | 27.88          | 5.52 |
|         |                 | 1     | 99       |            | 21.88          | 27.79          | 5.91 |
|         |                 | 27    | 0        |            | 21.62          | 27.03          | 5.41 |
| 132322  | 1745            | 1     | 0        | QPSK       | 22.76          | 27.78          | 5.02 |
|         |                 | 1     | 50       |            | 23.16          | 28.01          | 4.85 |
|         |                 | 1     | 99       |            | 23.68          | 28.10          | 4.42 |
|         |                 | 100   | 0        |            | 22.19          | 28.53          | 6.34 |
|         |                 | 1     | 0        | 16QAM      | 22.06          | 28.10          | 6.04 |
|         |                 | 1     | 50       |            | 22.49          | 28.44          | 5.95 |
|         |                 | 1     | 99       |            | 23.05          | 28.49          | 5.44 |
|         |                 | 27    | 0        |            | 22.29          | 27.76          | 5.47 |
| 132572  | 1770            | 1     | 0        | QPSK       | 22.58          | 27.79          | 5.21 |
|         |                 | 1     | 50       |            | 22.95          | 28.03          | 5.08 |
|         |                 | 1     | 99       |            | 23.25          | 27.95          | 4.70 |
|         |                 | 100   | 0        |            | 22.29          | 28.67          | 6.38 |
|         |                 | 1     | 0        | 16QAM      | 22.27          | 27.74          | 5.47 |
|         |                 | 1     | 50       |            | 22.59          | 27.93          | 5.34 |
|         |                 | 1     | 99       |            | 22.89          | 27.92          | 5.03 |
|         |                 | 27    | 0        |            | 22.01          | 27.18          | 5.17 |

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### 6.3. ERP and EIRP

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC Part 22.913(a), 24.232(b)                                                       |
| <b>DUT Serial Number:</b> | 860710050012304                                                                     |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass                                                                                |

#### Limit Level Construction:

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

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

**According to 22.913(a),** The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

**According to Part 27.50(d),** "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

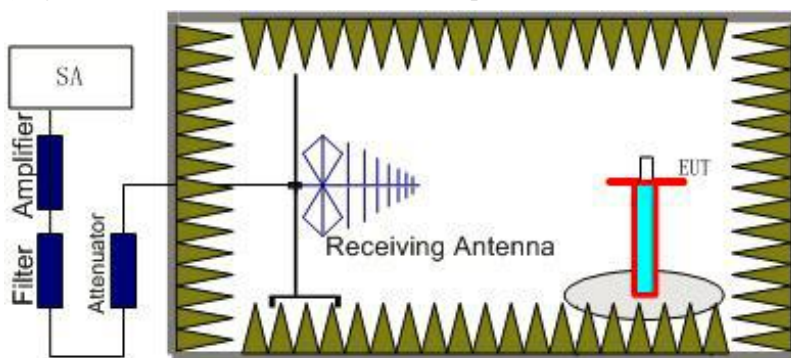
**According to Part 27.50(h)(2)** "Mobile stations are limited to 2.0 watts EIRP".

**According to Part 27.50(c),**specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

#### Method of Measurement

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

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

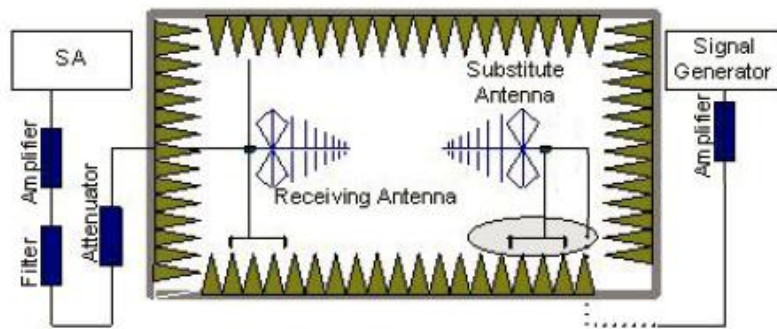


2. The EUT is then put into continuously transmitting mode at its maximum power level duringthe test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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In the chamber, an substitution antenna for the frequency band of interest is placed at thereference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interferewith the radiation pattern of the antenna. A power (PMea) is applied to the input of thesubstitution antenna, and adjust the level of the signal generator output until the value of thereceiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. Thetest should be performed by rotating the test item and adjusting the receiving antennapolarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should beconnect between the Amplifier and the Substitution Antenna.

The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should berecorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = \text{PMea} + \text{PAg} - \text{Pcl} + \text{Ga}$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,

$$\text{ERP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

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### 6.3.1 GSM 850 Measurement result

#### GPRS GMSK Mode

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | ERP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------|----------------------------------|
| 824.2              | 27.8                                           | 3.4                | 8.0                  | 32.4         | V                                |
| 836.6              | 28.6                                           | 3.4                | 6.6                  | 31.8         | V                                |
| 848.8              | 28.4                                           | 3.4                | 7.2                  | 32.2         | V                                |

#### EGPRS 8PSK Mode

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | ERP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------|----------------------------------|
| 824.2              | 26.5                                           | 3.4                | 8.0                  | 31.1         | V                                |
| 836.6              | 27.6                                           | 3.4                | 6.6                  | 30.8         | V                                |
| 848.8              | 26.5                                           | 3.4                | 7.2                  | 30.3         | V                                |

### 6.3.2 PCS 1900 Measurement result

#### GPRS GMSK Mode

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
| 1850.2             | 26.1                                           | 5.0                | 7.2                  | 28.3          | V                                |
| 1880.0             | 26.3                                           | 5.0                | 7.2                  | 28.5          | V                                |
| 1909.8             | 27.3                                           | 5.1                | 6.8                  | 29.0          | V                                |

#### EGPRS 8PSK Mode

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
|--------------------|------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|

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|        | [dBm] |     |     |      |   |
|--------|-------|-----|-----|------|---|
| 1850.2 | 25.3  | 3.4 | 7.2 | 29.1 | V |
| 1880.0 | 25.3  | 3.4 | 7.2 | 29.1 | V |
| 1909.8 | 25.3  | 3.4 | 6.8 | 28.7 | V |

### 6.3.3 LTE Band 2 Measurement result

#### LTE Band 2\_20 MHz\_QPSK

| Frequency<br>[MHz] | Generator<br>output<br>power(P <sub>g</sub> )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|--------------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
| 1860.0             | 18.32                                                  | 5.0                | 7.2                  | 20.52         | V                                |
| 1880.0             | 18.44                                                  | 5.0                | 7.2                  | 20.64         | V                                |
| 1900.0             | 18.98                                                  | 5.1                | 6.8                  | 20.68         | V                                |

#### LTE Band 2\_20 MHz\_16QAM

| Frequency<br>[MHz] | Generator<br>output<br>power(P <sub>g</sub> )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|--------------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
| 1860.0             | 18.01                                                  | 5.0                | 7.2                  | 20.21         | V                                |
| 1880.0             | 18.17                                                  | 5.0                | 7.2                  | 20.37         | V                                |
| 1900.0             | 18.74                                                  | 5.1                | 6.8                  | 20.44         | V                                |

### 6.3.4 LTE Band 4 Measurement result

#### LTE Band 4\_20MHz\_QPSK

| Frequency<br>[MHz] | Generator<br>output<br>power(P <sub>g</sub> )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|--------------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
| 1720.0             | 18.21                                                  | 4.8                | 7.9                  | 21.31         | V                                |

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|        |       |     |     |       |   |
|--------|-------|-----|-----|-------|---|
| 1732.5 | 17.99 | 4.9 | 8.1 | 21.19 | V |
| 1745.0 | 18.04 | 4.9 | 8.1 | 21.24 | V |

**LTE Band 4\_20MHz\_16QAM**

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | EIRP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|---------------|----------------------------------|
| 1720.0             | 17.70                                          | 4.8                | 7.9                  | 20.80         | V                                |
| 1732.5             | 17.54                                          | 4.9                | 8.1                  | 20.74         | V                                |
| 1745.0             | 17.59                                          | 4.9                | 8.1                  | 20.79         | V                                |

**6.3.5 LTE Band 5 Measurement result**
**LTE Band 5\_10MHz\_QPSK**

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | ERP<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------|----------------------------------|
| 829.0              | 17.49                                          | 3.4                | 7.3                  | 21.39        | V                                |
| 836.4              | 18.37                                          | 3.4                | 6.6                  | 21.57        | V                                |
| 844.0              | 18.30                                          | 3.4                | 6.6                  | 21.50        | V                                |

**LTE Band 5\_10MHz\_16QAM**

| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | Spurious<br>Emission<br>Power ( $P_d$ )<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------------------------------------------|----------------------------------|
| 829.0              | 16.80                                          | 3.4                | 7.3                  | 20.70                                            | V                                |
| 836.4              | 17.71                                          | 3.4                | 6.6                  | 20.91                                            | V                                |
| 844.0              | 17.63                                          | 3.4                | 6.6                  | 20.83                                            | V                                |

**6.3.6 LTE Band 66 Measurement result**
**LTE Band 66\_20MHz\_QPSK**
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| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | Spurious<br>Emission<br>Power ( $P_d$ )<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------------------------------------------|----------------------------------|
| 1720               | 14.43                                          | 3.1                | 9.1                  | 20.43                                            | V                                |
| 1745               | 14.51                                          | 3.1                | 9.1                  | 20.51                                            | V                                |
| 1769.9             | 14.86                                          | 3.2                | 8.8                  | 20.46                                            | V                                |

**LTE Band 66\_20MHz\_16QAM**

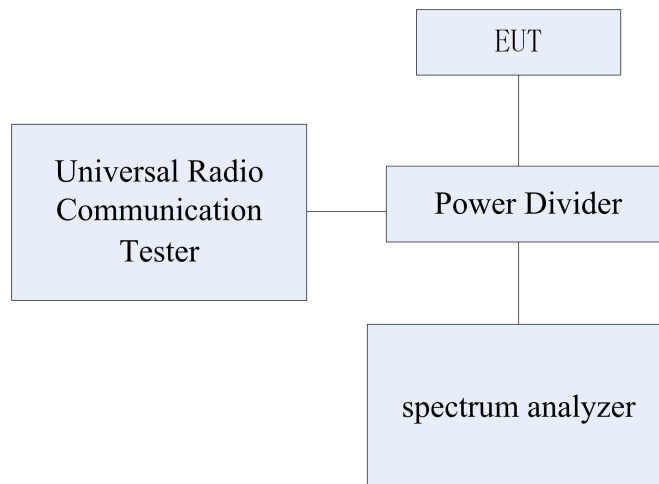
| Frequency<br>[MHz] | Generator<br>output<br>power( $P_g$ )<br>[dBm] | Cable loss<br>[dB] | Antenna<br>Gain [dB] | Spurious<br>Emission<br>Power ( $P_d$ )<br>[dBm] | Antenna<br>Polarization<br>[H/V] |
|--------------------|------------------------------------------------|--------------------|----------------------|--------------------------------------------------|----------------------------------|
| 1720               | 14.27                                          | 3.1                | 9.1                  | 20.27                                            | V                                |
| 1745               | 14.22                                          | 3.1                | 9.1                  | 20.22                                            | V                                |
| 1769.9             | 14.74                                          | 3.2                | 8.8                  | 20.34                                            | V                                |

#### 6.4. Occupied Bandwidth

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC Part 2.1049, 22.917(b), 24.238(b)                                               |
| <b>DUT Serial Number:</b> | 860710050007536                                                                     |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                  |

#### Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



#### Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

**Note:** --

#### 6.4.1 GSM Mode Occupied Bandwidth Results

| Band    | EUT channel No. | Mode | 99% OBW (MHz) | -26dBc OBW (MHz) |
|---------|-----------------|------|---------------|------------------|
| GSM850  | 128             | GMSK | 0.24          | 0.31             |
|         |                 | 8PSK | 0.24          | 0.29             |
|         | 190             | GMSK | 0.24          | 0.31             |
|         |                 | 8PSK | 0.25          | 0.30             |
|         | 251             | GMSK | 0.24          | 0.30             |
|         |                 | 8PSK | 0.24          | 0.29             |
| PCS1900 | 512             | GMSK | 0.24          | 0.30             |
|         |                 | 8PSK | 0.24          | 0.32             |
|         | 661             | GMSK | 0.24          | 0.30             |
|         |                 | 8PSK | 0.25          | 0.31             |
|         | 810             | GMSK | 0.24          | 0.31             |
|         |                 | 8PSK | 0.25          | 0.31             |

### 6.4.2 LTE B2 occupied bandwidth Results

| Mode  | EUT channel No.    | bandwidth | No. RB | RB offset | 99% occupied bandwidth [MHz] | -26dBc occupied bandwidth [MHz] |
|-------|--------------------|-----------|--------|-----------|------------------------------|---------------------------------|
| QPSK  | 18900<br>(1880MHz) | 1.4MHz    | 6      | 0         | 1.10                         | 1.26                            |
|       |                    | 3MHz      | 15     |           | 2.68                         | 2.88                            |
|       |                    | 5MHz      | 25     |           | 4.51                         | 4.93                            |
|       |                    | 10MHz     | 50     |           | 8.97                         | 9.51                            |
|       |                    | 15MHz     | 75     |           | 13.36                        | 14.13                           |
|       |                    | 20MHz     | 100    |           | 17.93                        | 18.99                           |
| 16QAM |                    | 1.4MHz    | 6      |           | 1.09                         | 1.26                            |
|       |                    | 3MHz      | 15     |           | 2.68                         | 2.89                            |
|       |                    | 5MHz      | 25     |           | 4.50                         | 4.87                            |
|       |                    | 10MHz     | 27     |           | 4.83                         | 5.67                            |
|       |                    | 15MHz     | 27     |           | 4.85                         | 5.72                            |
|       |                    | 20MHz     | 27     |           | 4.87                         | 5.96                            |

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### 6.4.3 LTE B4 occupied bandwidth Results

| Mode  | EUT channel No.      | bandwidth | No. RB | RB offset | 99% occupied bandwidth [MHz] | -26dBc occupied bandwidth [MHz] |
|-------|----------------------|-----------|--------|-----------|------------------------------|---------------------------------|
| QPSK  | 20175<br>(1732.5MHz) | 1.4MHz    | 6      | 0         | 1.10                         | 1.26                            |
|       |                      | 3MHz      | 15     |           | 2.69                         | 2.87                            |
|       |                      | 5MHz      | 25     |           | 4.51                         | 4.95                            |
|       |                      | 10MHz     | 50     |           | 8.97                         | 9.55                            |
|       |                      | 15MHz     | 75     |           | 13.55                        | 14.61                           |
|       |                      | 20MHz     | 100    |           | 18.01                        | 19.03                           |
| 16QAM |                      | 1.4MHz    | 6      |           | 1.09                         | 1.29                            |
|       |                      | 3MHz      | 15     |           | 2.68                         | 2.87                            |
|       |                      | 5MHz      | 25     |           | 4.50                         | 4.90                            |
|       |                      | 10MHz     | 27     |           | 4.83                         | 5.70                            |
|       |                      | 15MHz     | 27     |           | 4.90                         | 5.67                            |
|       |                      | 20MHz     | 27     |           | 4.87                         | 5.08                            |

#### 6.4.4 LTE B5 occupied bandwidth Results

| Mode  | EUT channel No.     | bandwidth | No. RB | RB offset | 99% occupied bandwidth [MHz] | -26dBc occupied bandwidth [MHz] |
|-------|---------------------|-----------|--------|-----------|------------------------------|---------------------------------|
| QPSK  | 20525<br>(836.5MHz) | 1.4MHz    | 6      | 0         | 1.09                         | 1.25                            |
|       |                     | 3MHz      | 15     |           | 2.68                         | 2.88                            |
|       |                     | 5MHz      | 25     |           | 4.51                         | 4.91                            |
|       |                     | 10MHz     | 50     |           | 8.97                         | 9.58                            |
| 16QAM |                     | 1.4MHz    | 6      |           | 1.10                         | 1.26                            |
|       |                     | 3MHz      | 15     |           | 2.68                         | 2.85                            |
|       |                     | 5MHz      | 25     |           | 4.50                         | 4.91                            |
|       |                     | 10MHz     | 27     |           | 4.83                         | 5.51                            |

### 6.4.5 LTE B66 occupied bandwidth Results

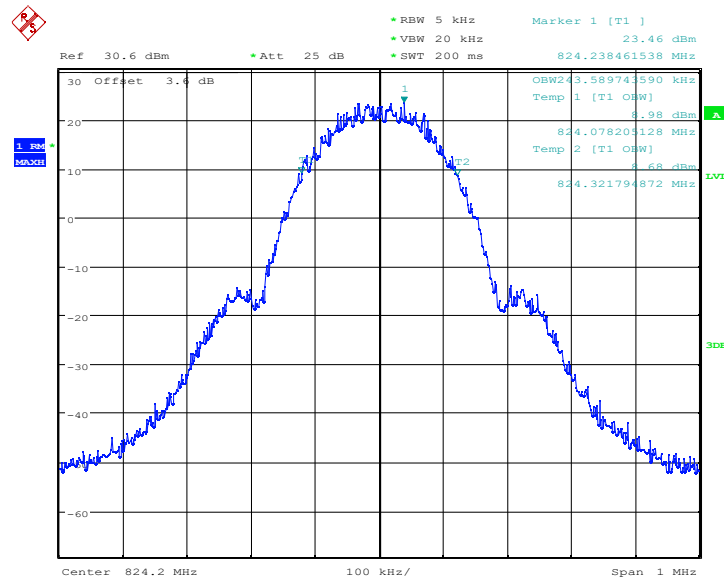
| Mode  | EUT channel No.  | bandwidth | No. RB | RB offset | 99% occupied bandwidth [MHz] | -26dBc occupied bandwidth [MHz] |
|-------|------------------|-----------|--------|-----------|------------------------------|---------------------------------|
| QPSK  | 132322(1745M Hz) | 1.4MHz    | 6      | 0         | 1.09                         | 1.27                            |
|       |                  | 3MHz      | 15     |           | 2.68                         | 2.87                            |
|       |                  | 5MHz      | 25     |           | 4.53                         | 4.93                            |
|       |                  | 10MHz     | 50     |           | 8.94                         | 9.51                            |
|       |                  | 15MHz     | 75     |           | 13.55                        | 14.56                           |
|       |                  | 20MHz     | 100    |           | 18.01                        | 18.97                           |
| 16QAM |                  | 1.4MHz    | 6      |           | 1.09                         | 1.27                            |
|       |                  | 3MHz      | 15     |           | 2.68                         | 2.87                            |
|       |                  | 5MHz      | 25     |           | 4.50                         | 4.88                            |
|       |                  | 10MHz     | 27     |           | 4.83                         | 5.35                            |
|       |                  | 15MHz     | 27     |           | 4.86                         | 5.33                            |
|       |                  | 20MHz     | 27     |           | 4.87                         | 5.32                            |

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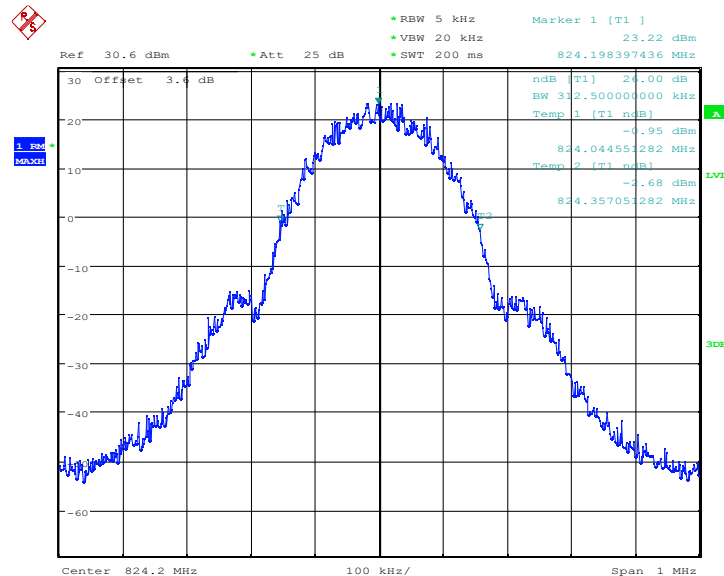


## Graphical results for GSM850:



Date: 2.SEP.2021 20:16:43

## GMSK 99% Channel 128

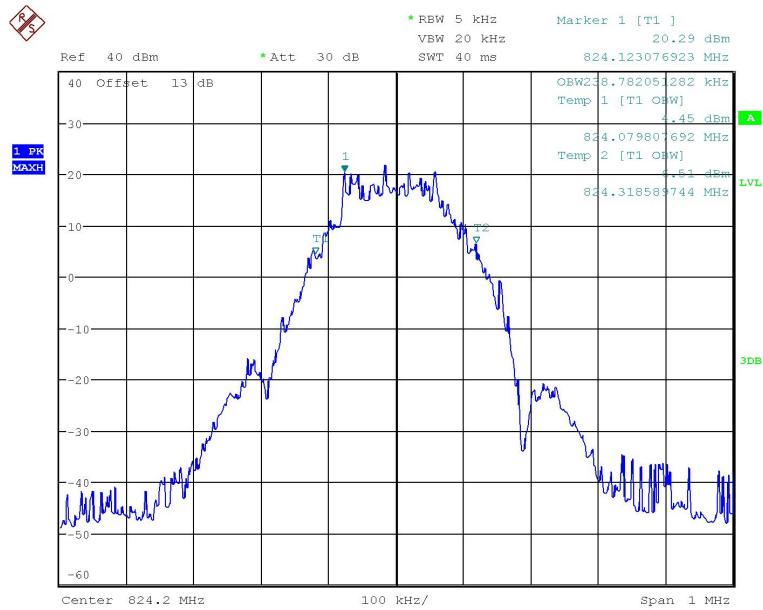


Date: 2.SEP.2021 20:17:09

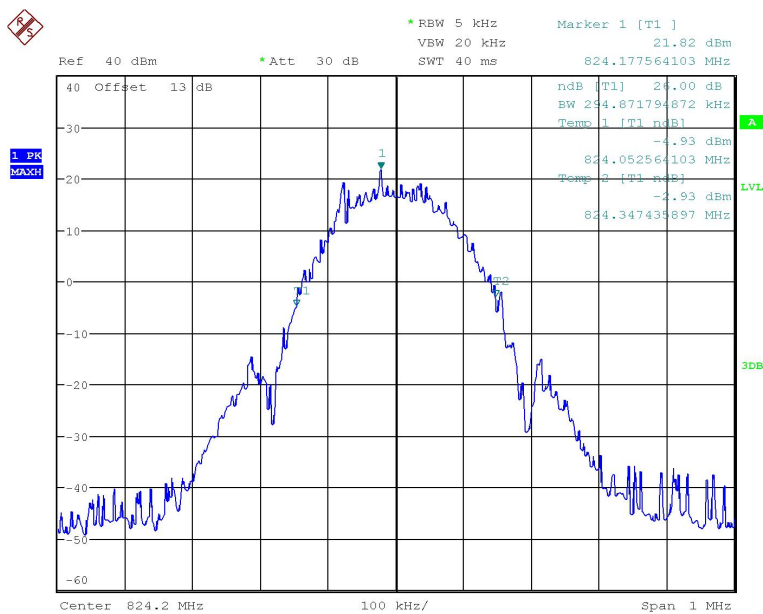
## GMSK -26dBc Channel 128

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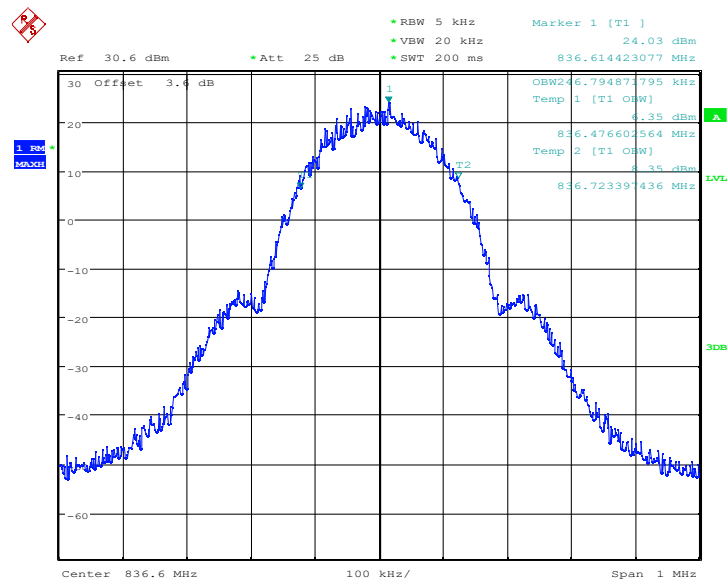
### 8PSK 99% Channel 128



### 8PSK -26dBc Channel 128

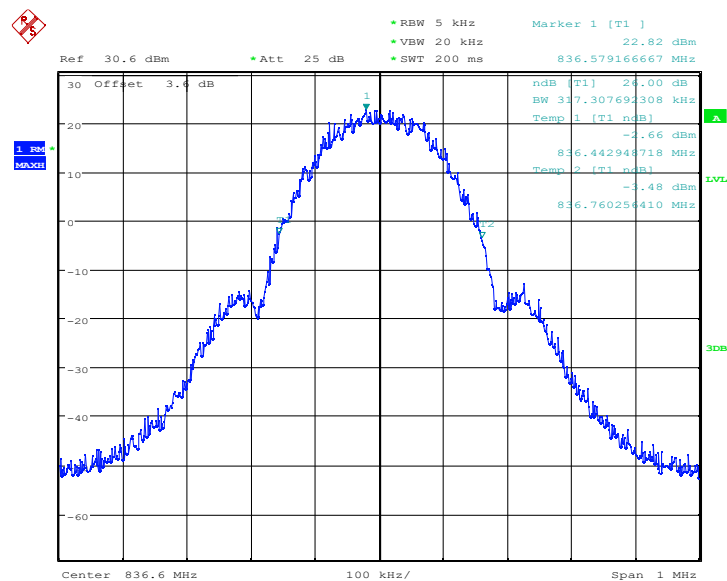
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Date: 2.SEP.2021 20:19:02

### GMSK 99% Channel 190

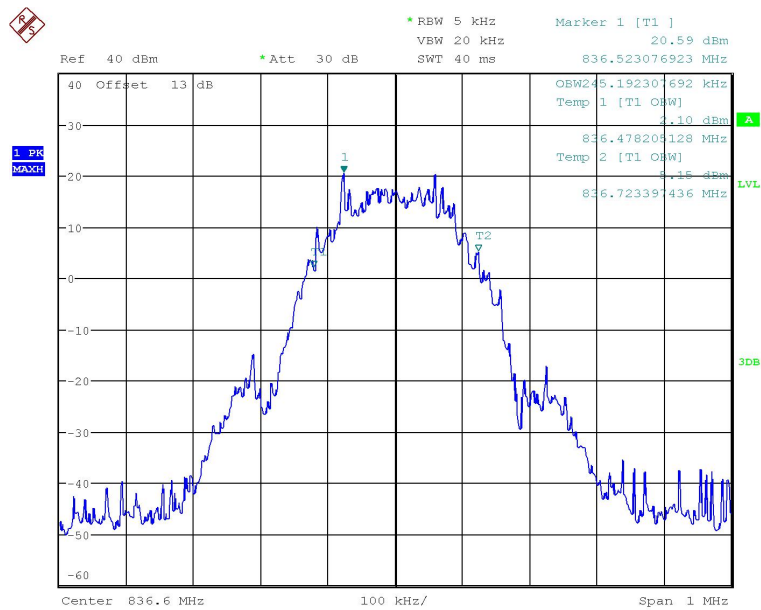


Date: 2.SEP.2021 20:18:27

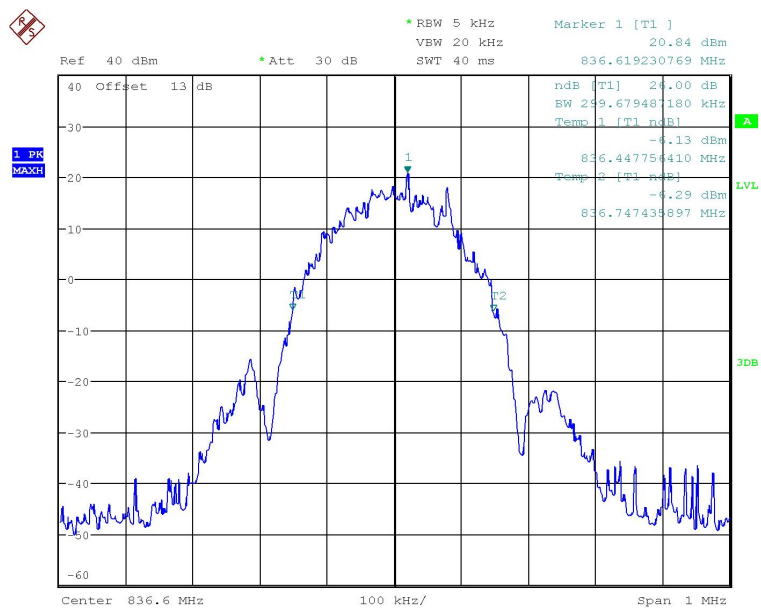
### GMSK -26dBc Channel 190

## Chongqing Academy of Information and Communication Technology

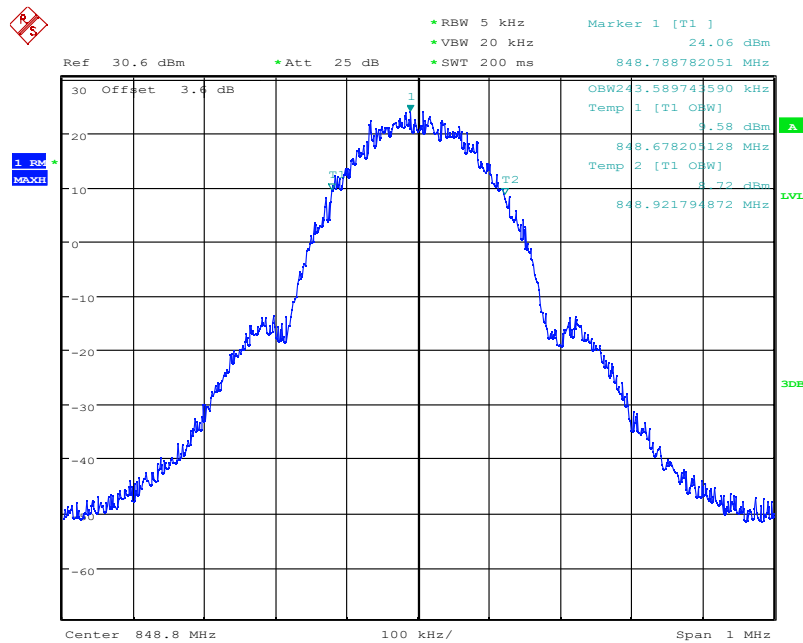
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### 8PSK 99% Channel 190

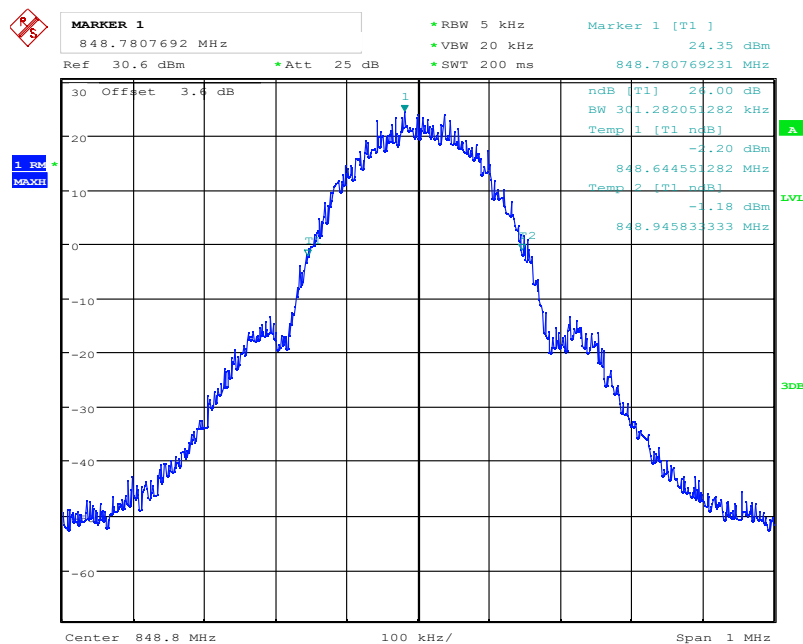


### 8PSK -26dBc Channel 190



Date: 2.SEP.2021 20:20:05

### GSM 99% Channel 251

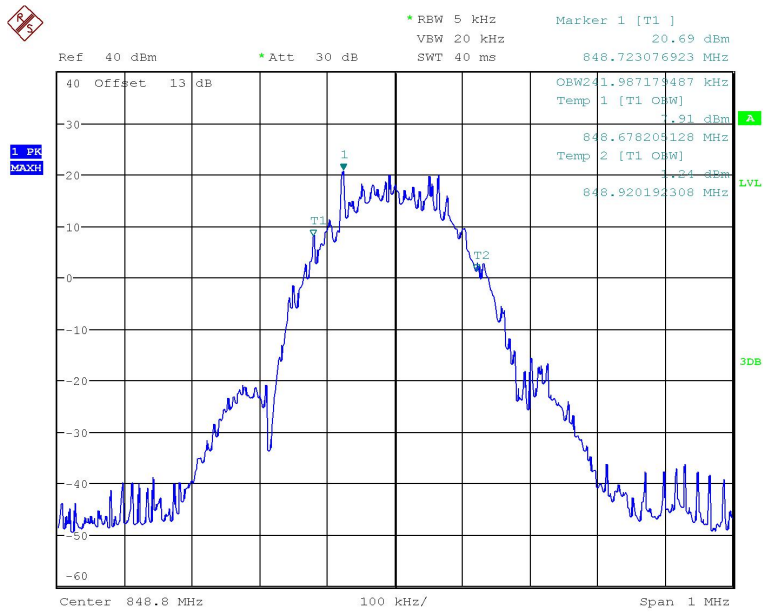


Date: 2.SEP.2021 20:20:37

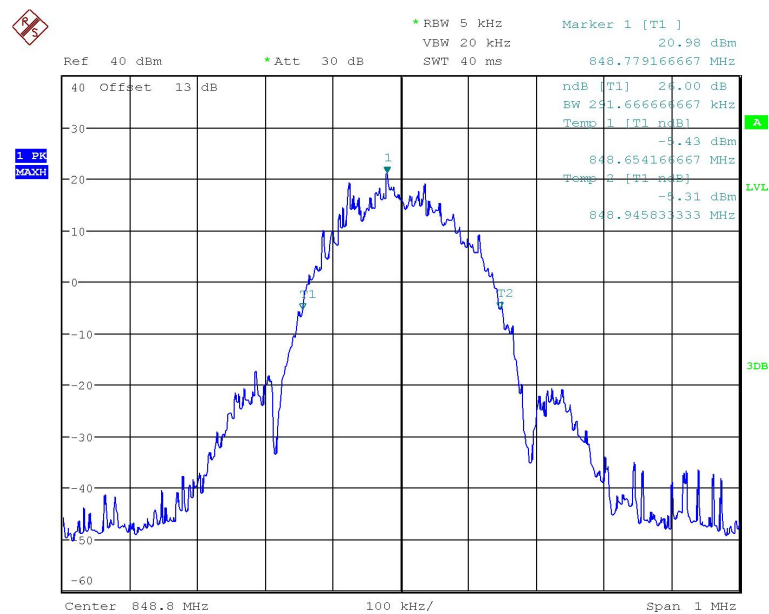
### GSM -26dBc Channel 251

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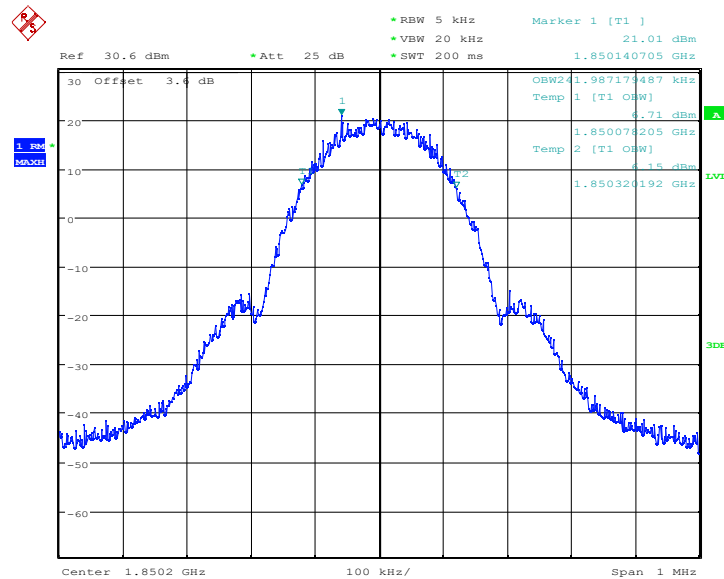


### 8PSK 99% Channel 251



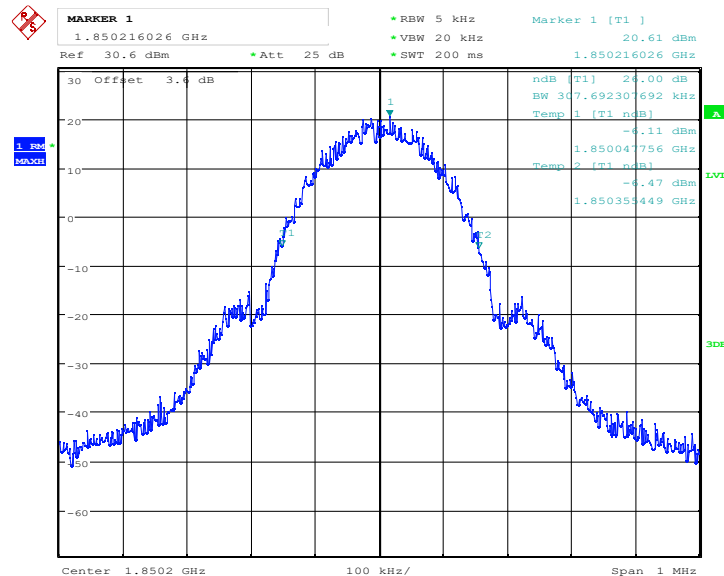
### 8PSK -26dBc Channel 251

## Graphical results for GSM1900:



Date: 2.SEP.2021 20:51:37

## GMSK 99% Channel 512

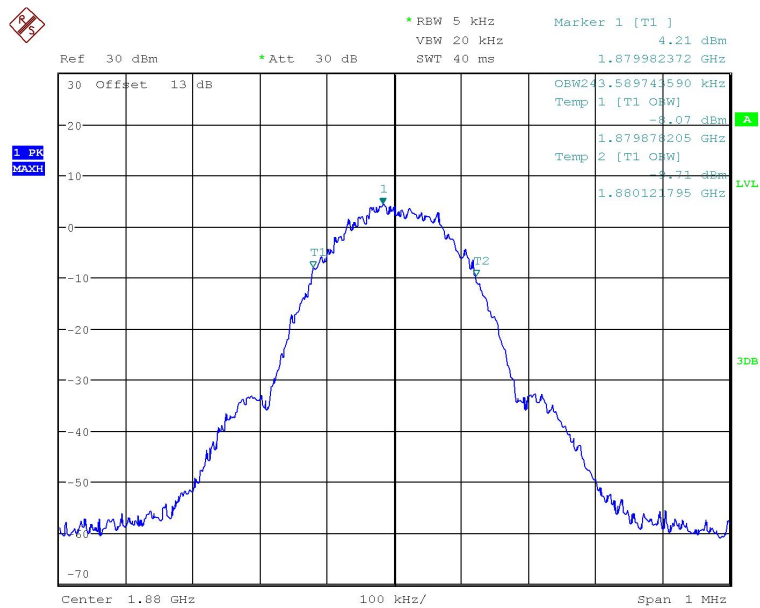


Date: 2.SEP.2021 20:51:58

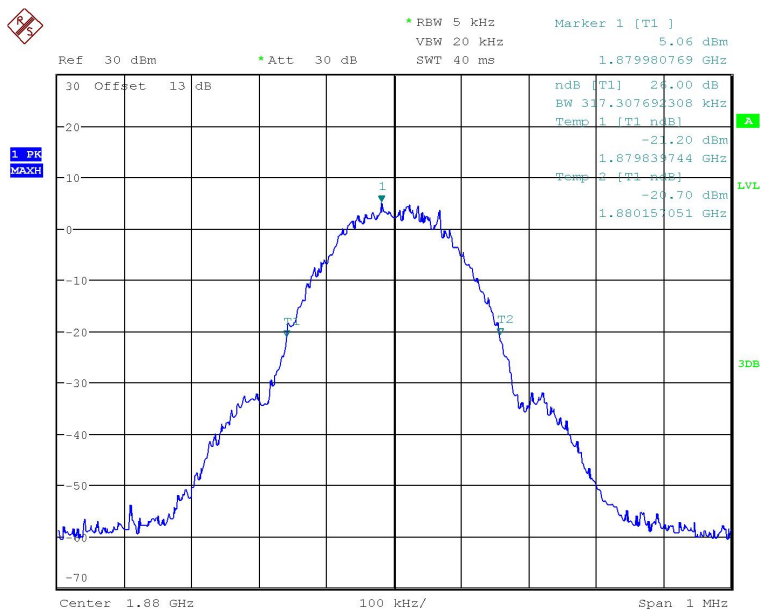
## GMSK -26dBc Channel 512

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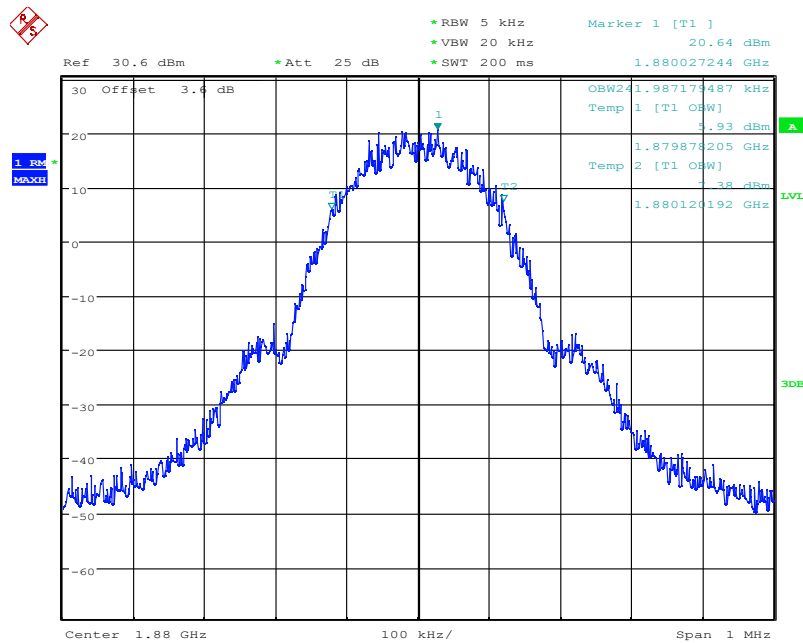


8PSK 99% Channel 512



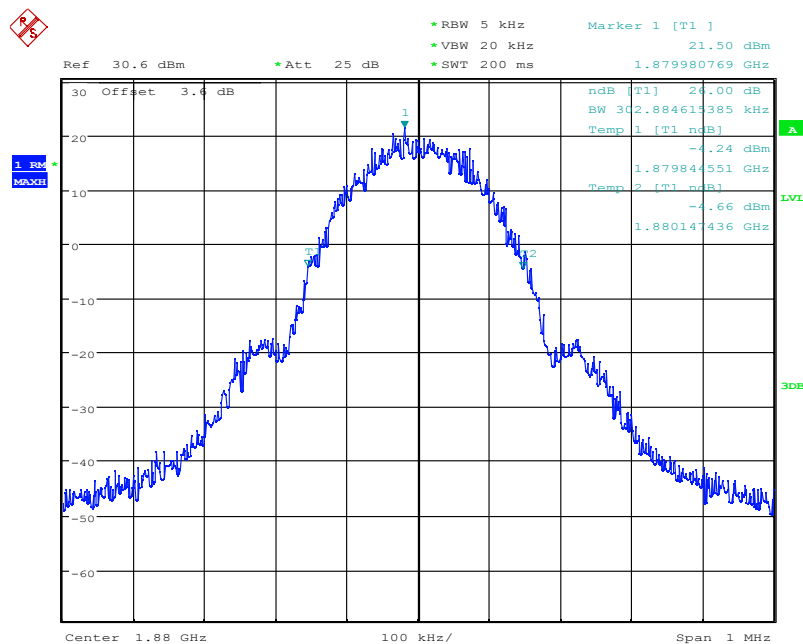
8PSK -26dBc Channel 512





Date: 2.SEP.2021 20:52:56

### GSM 99% Channel 661

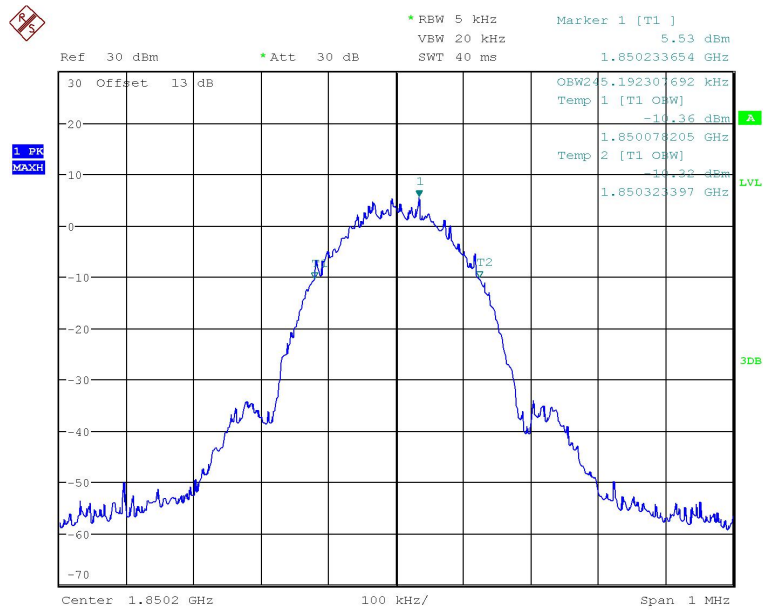


Date: 2.SEP.2021 20:52:36

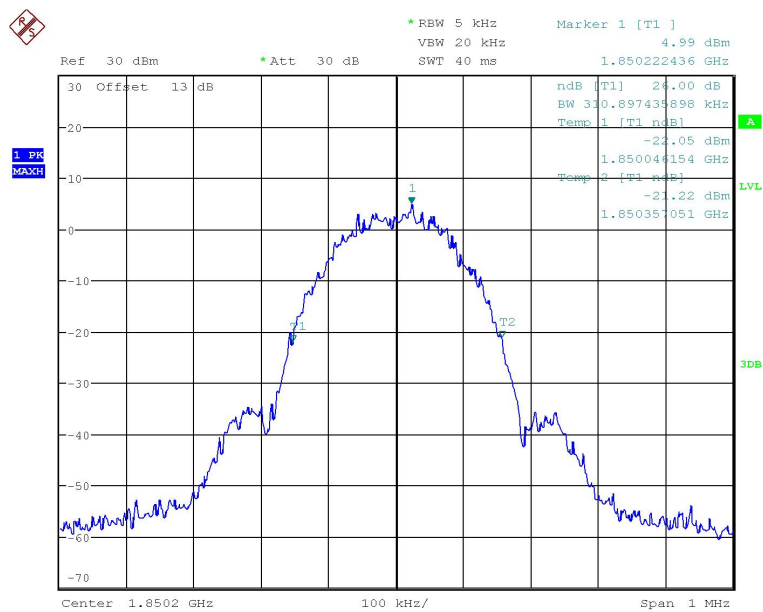
### GSM -26dBc Channel 661

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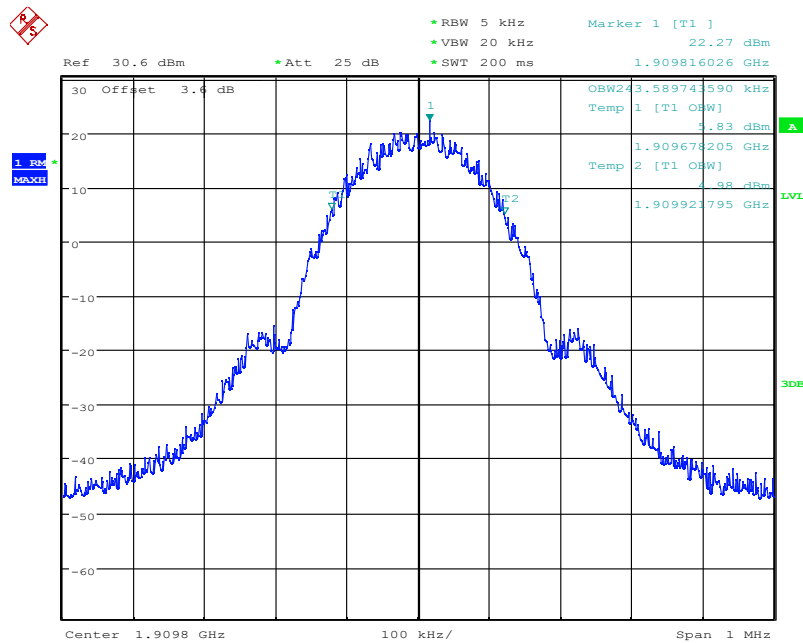
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### 8PSK 99% Channel 661

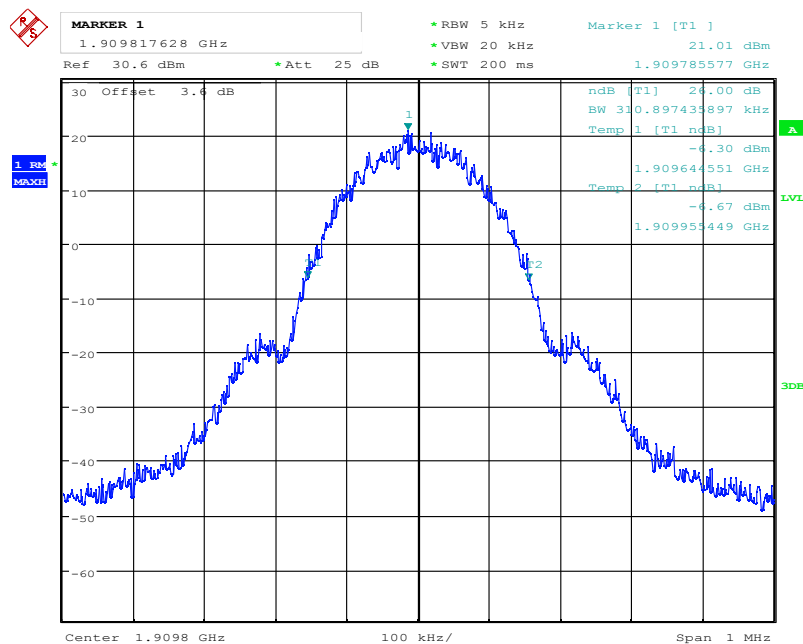


### 8PSK -26dBc Channel 661



Date: 2.SEP.2021 20:53:46

### GMSK 99% Channel 810

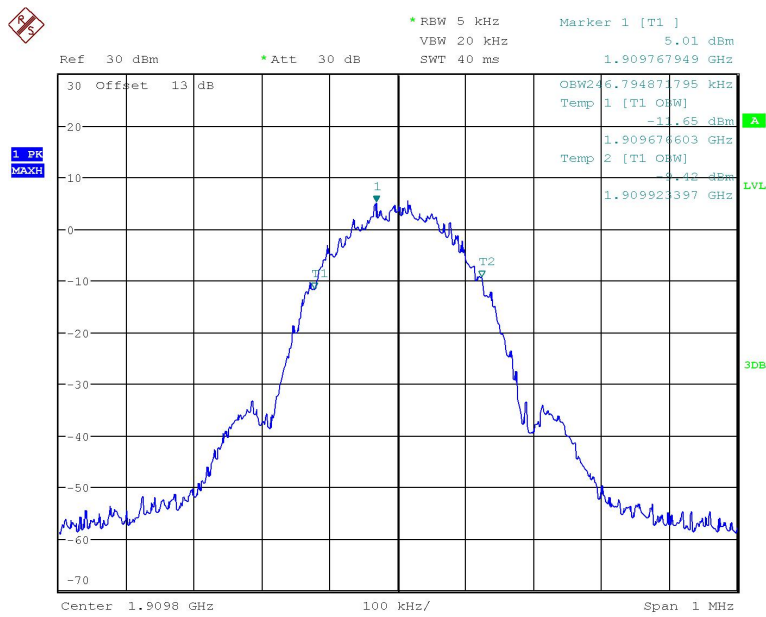


Date: 2.SEP.2021 20:54:07

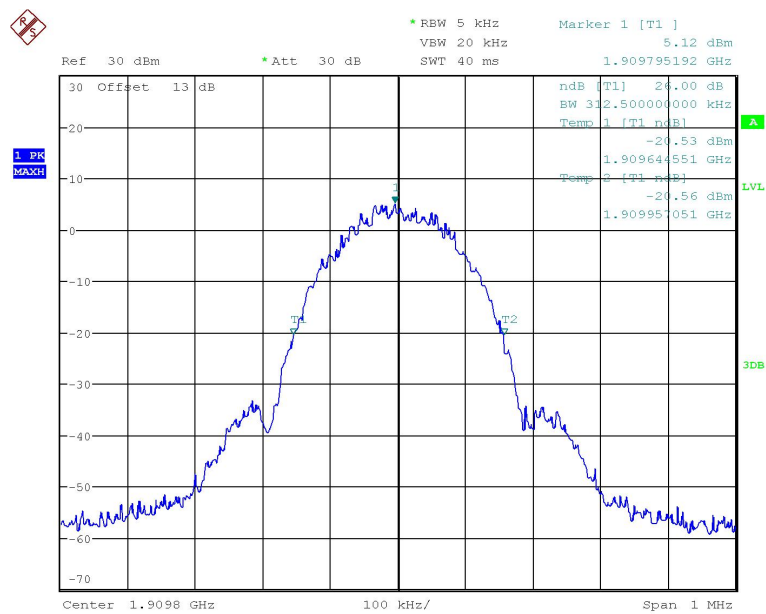
### GMSK -26dBc Channel 810

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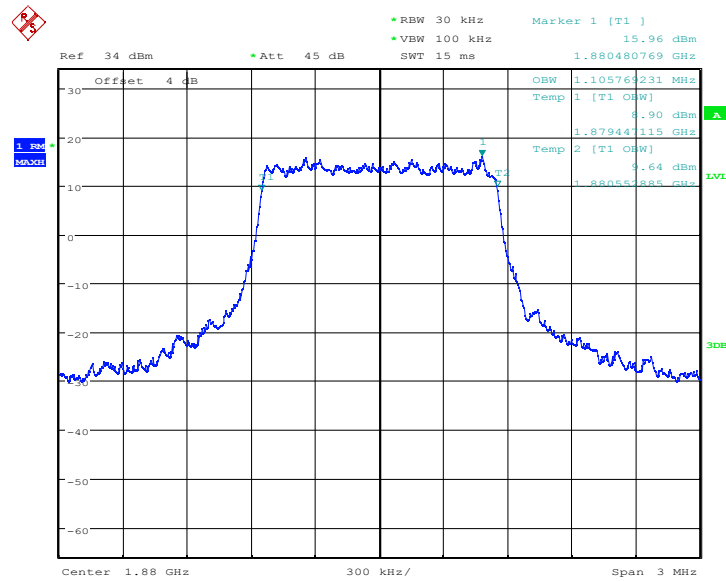


### 8PSK 99% Channel 810



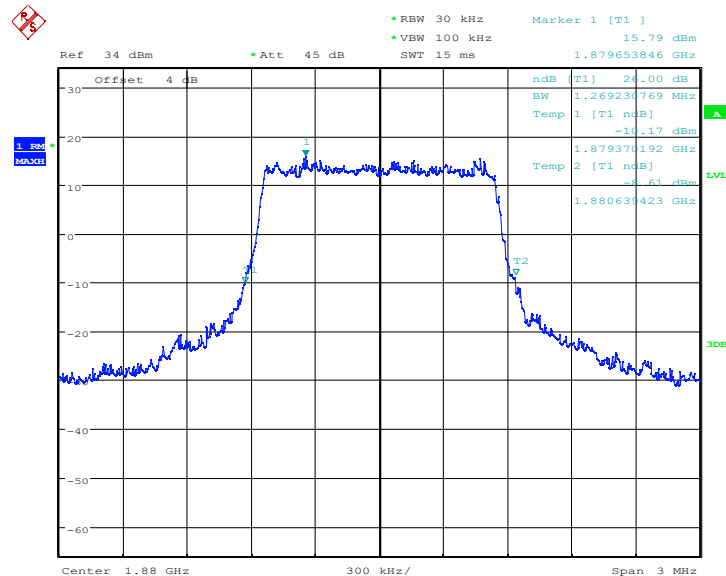
### 8PSK -26dBc Channel 810

## Graphical results for LTE B2:



Date: 1.SEP.2021 20:29:40

LTE Band2 QPSK 99% Channel 18900 BW=1.4MHz RB=6 RB Offset=0

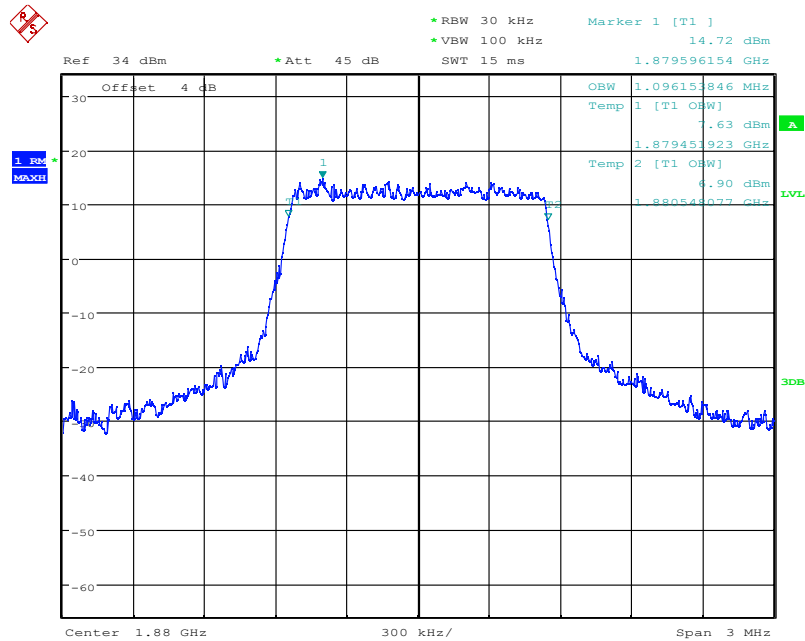


Date: 1.SEP.2021 20:29:59

LTE Band2 QPSK -26dBc Channel 18900 BW=1.4MHz RB=6 RB Offset=0

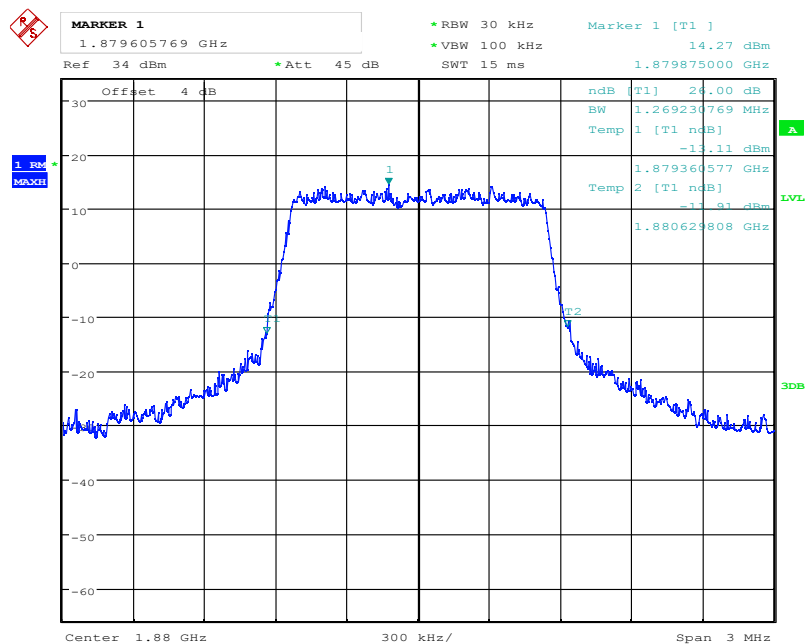
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Date: 1.SEP.2021 20:40:13

LTE Band2 16QAM 99% Channel 18900 BW=1.4MHz RB=6 RB Offset=0

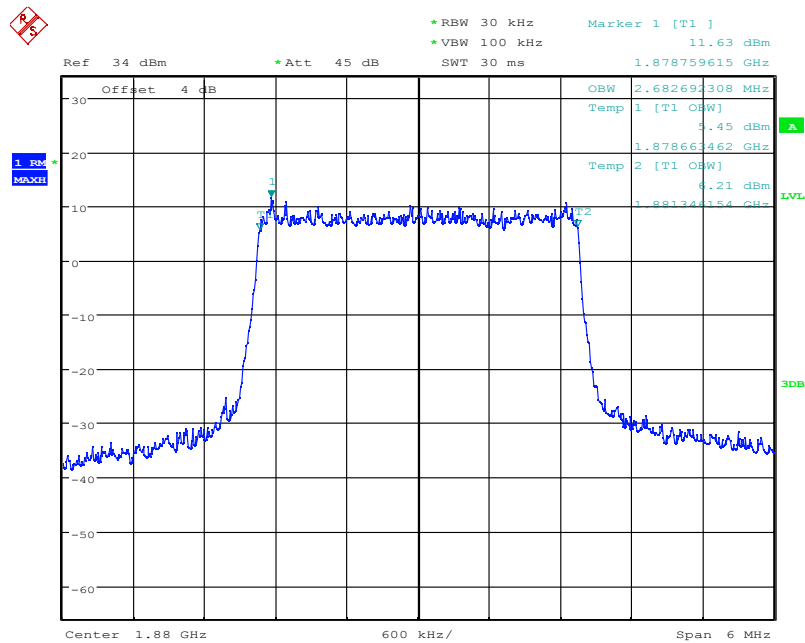


Date: 1.SEP.2021 20:40:43

LTE Band2 16QAM -26dBc Channel 18900 BW=1.4MHz RB=6 RB Offset=0

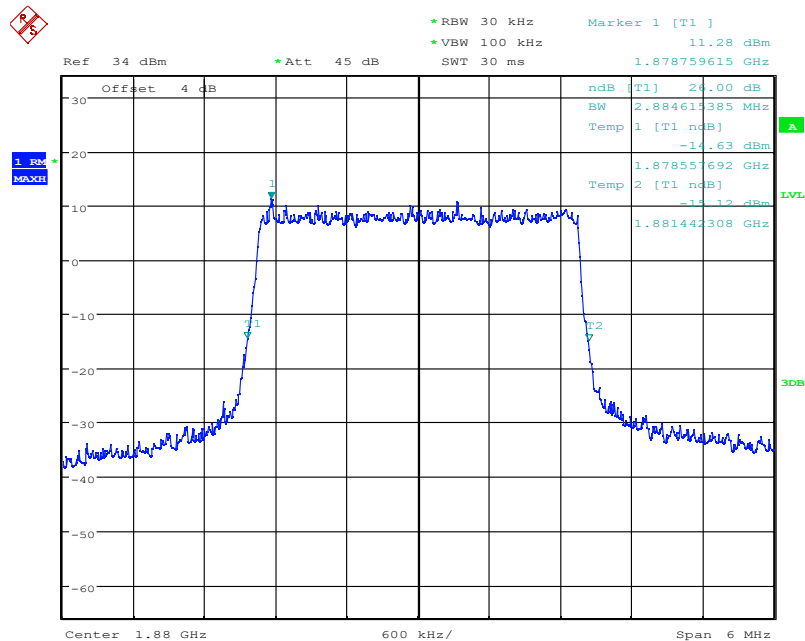
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Date: 1.SEP.2021 20:30:56

LTE Band2 QPSK 99% Channel 18900 BW=3MHz RB=15 RB Offset=0



Date: 1.SEP.2021 20:30:39

LTE Band2 QPSK -26dBc Channel 18900 BW=3MHz RB=15 RB Offset=0

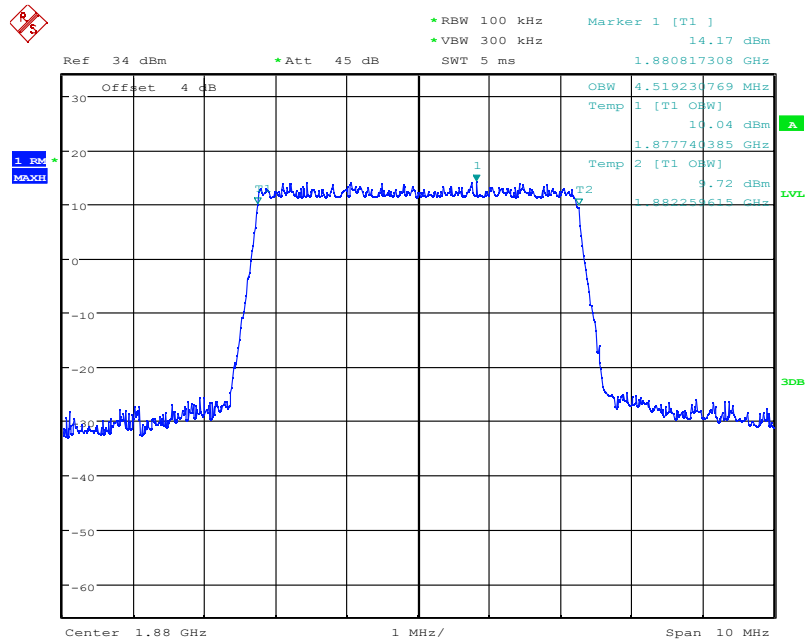
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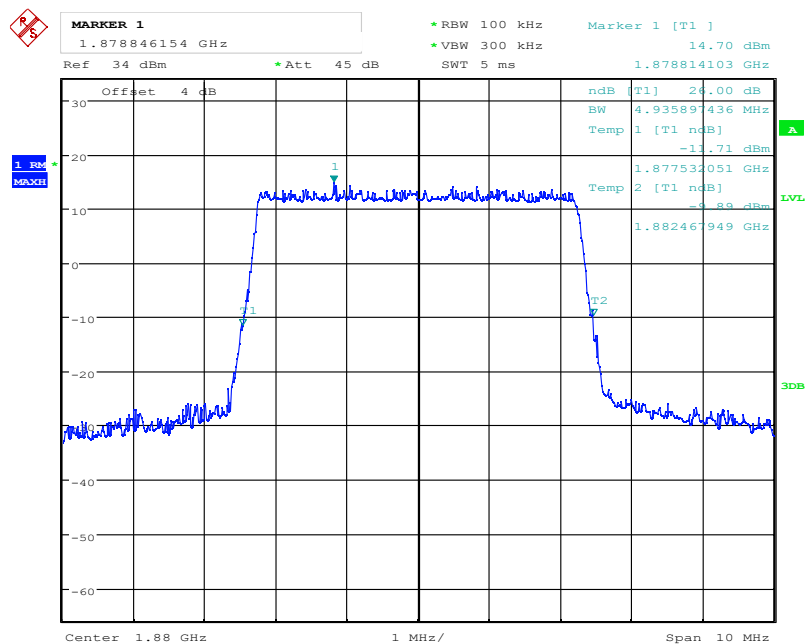
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Date: 1.SEP.2021 20:34:00

LTE Band2 QPSK 99% Channel 18900 BW=5MHz RB=25 RB Offset=0

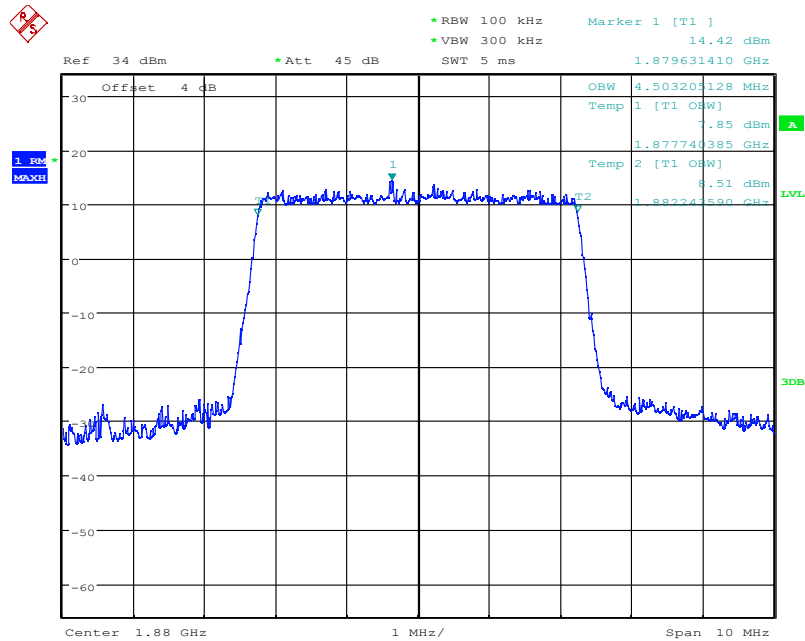


Date: 1.SEP.2021 20:34:20

LTE Band2 QPSK -26dBc Channel 18900 BW=5MHz RB=25 RB Offset=0

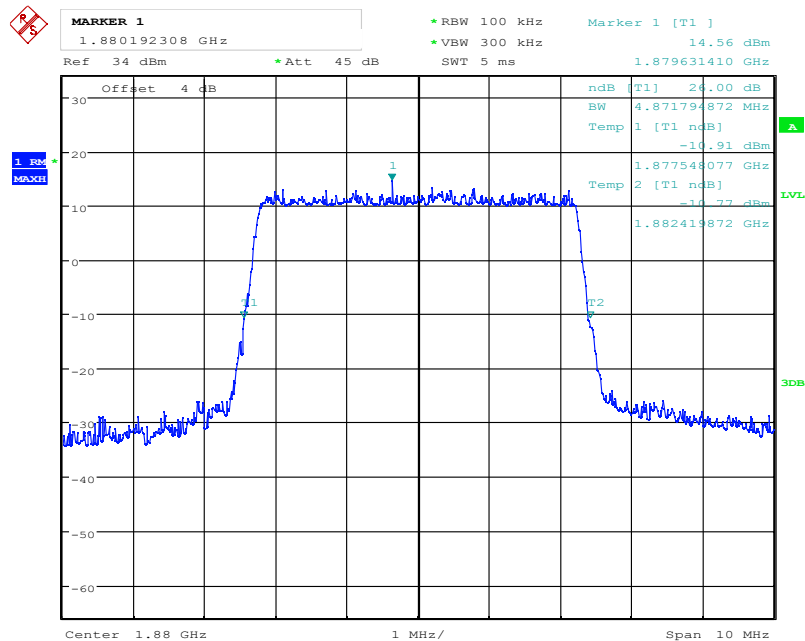
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Date: 1.SEP.2021 20:42:27

LTE Band2 16QAM 99% Channel 18900 BW=5MHz RB=25 RB Offset=0

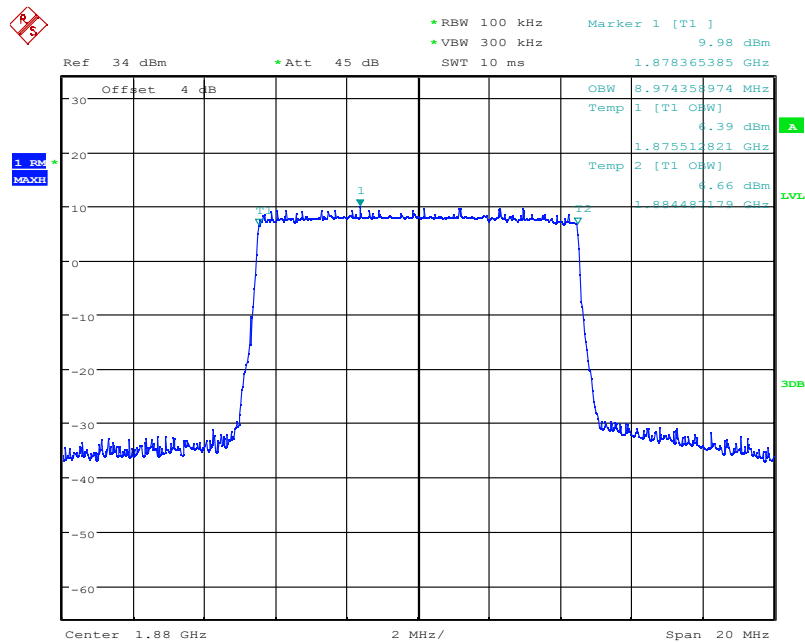


Date: 1.SEP.2021 20:42:43

LTE Band2 16QAM -26dBc Channel 18900 BW=5MHz RB=25 RB Offset=0

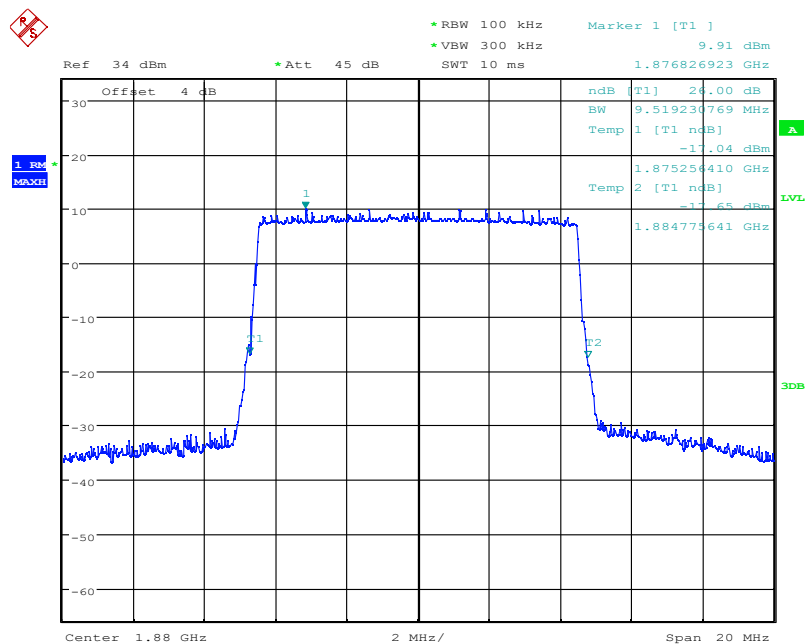
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Date: 1.SEP.2021 20:35:22

LTE Band2 QPSK 99% Channel 18900 BW=10MHz RB=50 RB Offset=0



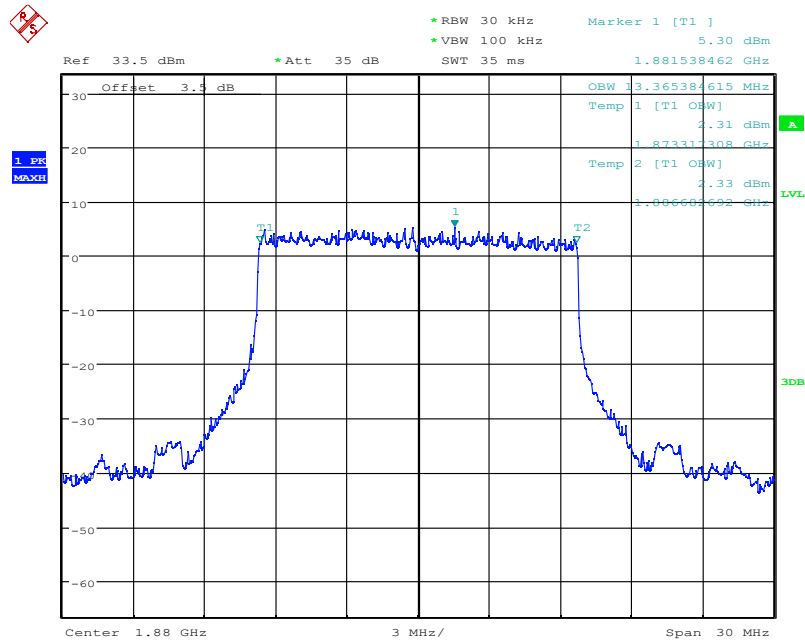
Date: 1.SEP.2021 20:34:58

LTE Band2 QPSK -26dBc Channel 18900 BW=10MHz RB=50 RB Offset=0

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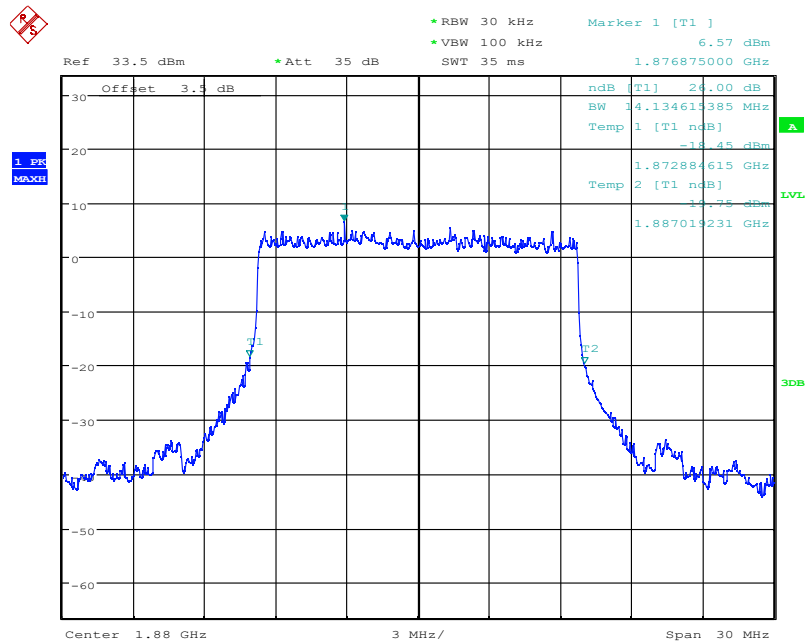
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Date: 8.SEP.2021 20:18:06

LTE Band2 QPSK 99% Channel 18900 BW=15MHz RB=75 RB Offset=0

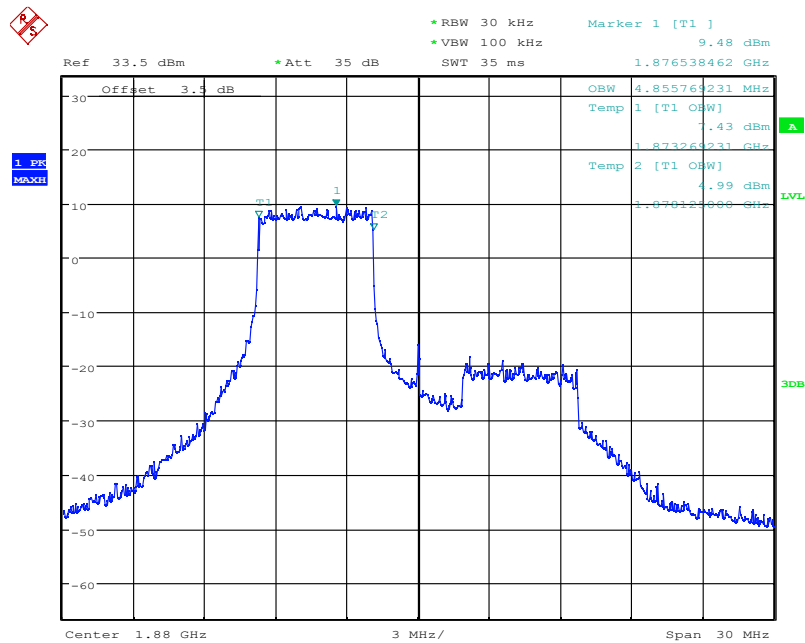


Date: 8.SEP.2021 20:18:15

LTE Band2 QPSK -26dBc Channel 18900 BW=15MHz RB=75 RB Offset=0

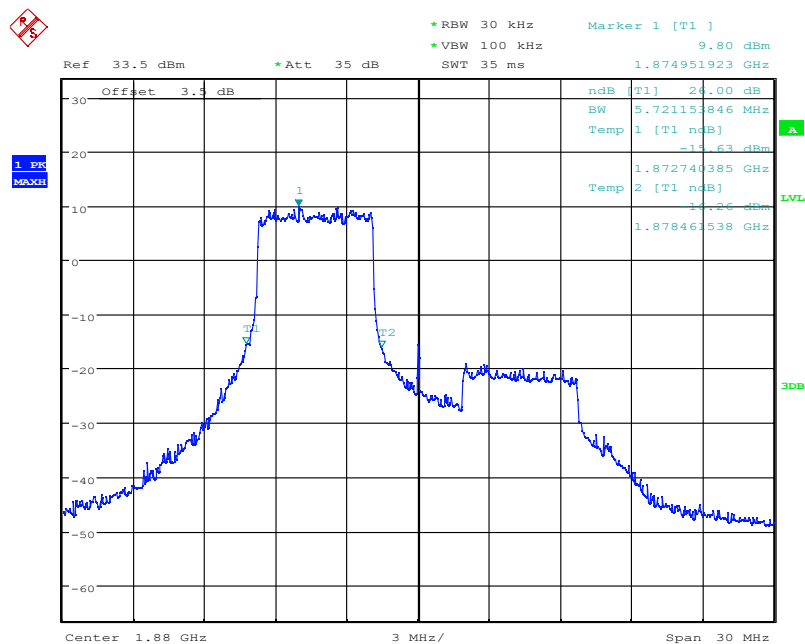
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Date: 8.SEP.2021 20:17:46

LTE Band2 16QAM 99% Channel 18900 BW=15MHz RB=27 RB Offset=0

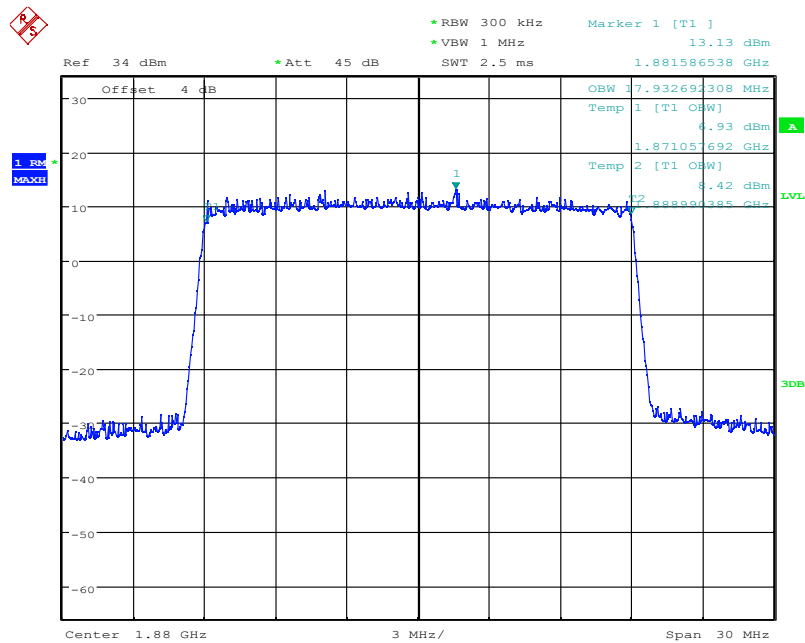


Date: 8.SEP.2021 20:17:27

LTE Band2 16QAM -26dBc Channel 18900 BW=15MHz RB=27 RB Offset=0

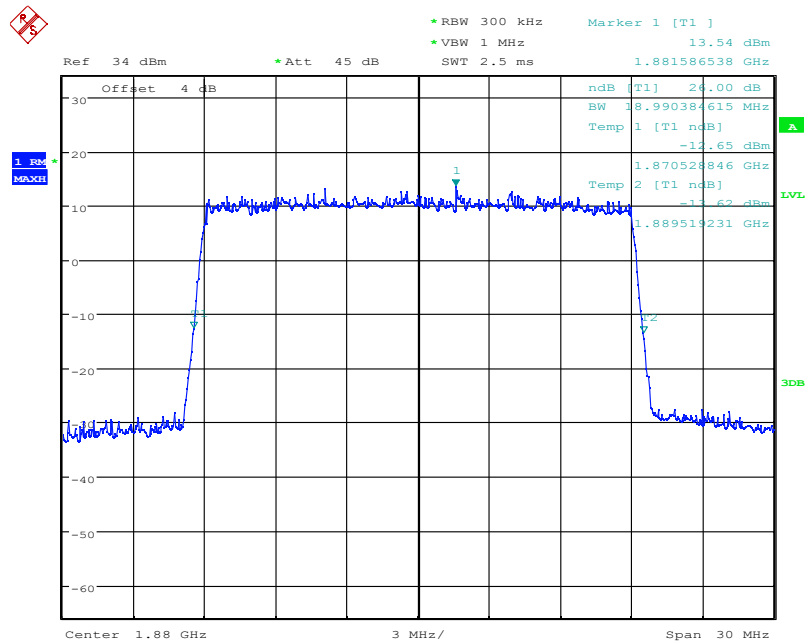
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Date: 1.SEP.2021 20:38:37

LTE Band2 QPSK 99% Channel 18900 BW=20MHz RB=100 RB Offset=0

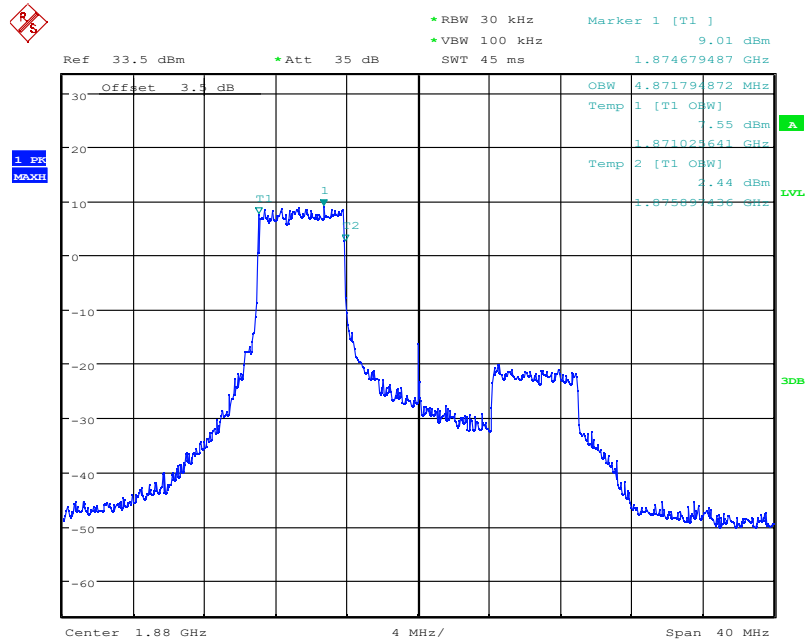


Date: 1.SEP.2021 20:38:22

LTE Band2 QPSK -26dBc Channel 18900 BW=20MHz RB=100 RB Offset=0

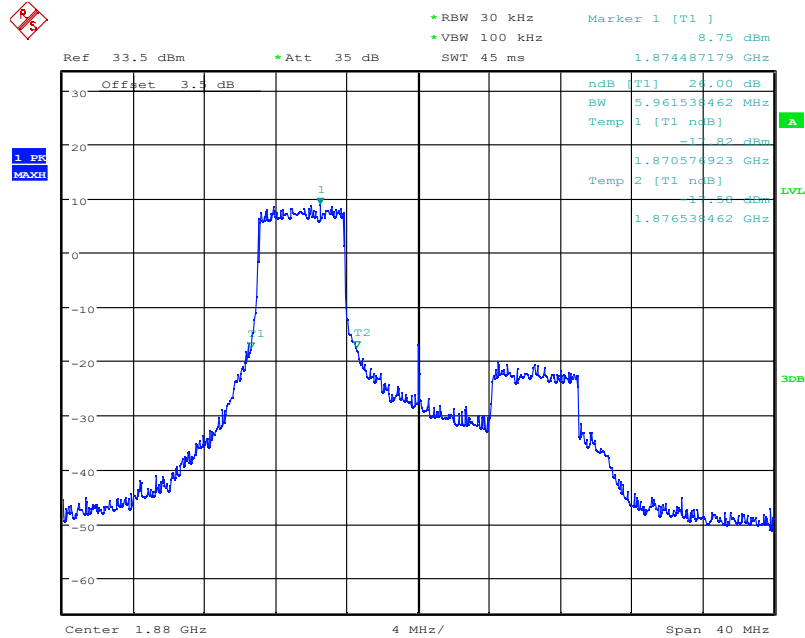
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Date: 8.SEP.2021 20:16:45

LTE Band2 16QAM 99% Channel 18900 BW=20MHz RB=27 RB Offset=0



Date: 8.SEP.2021 20:16:54

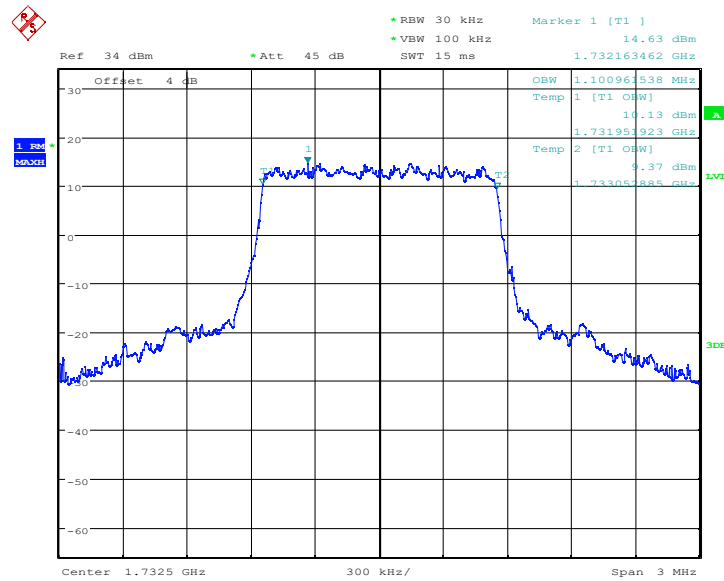
LTE Band2 16QAM -26dBc Channel 18900 BW=20MHz RB=27 RB Offset=0

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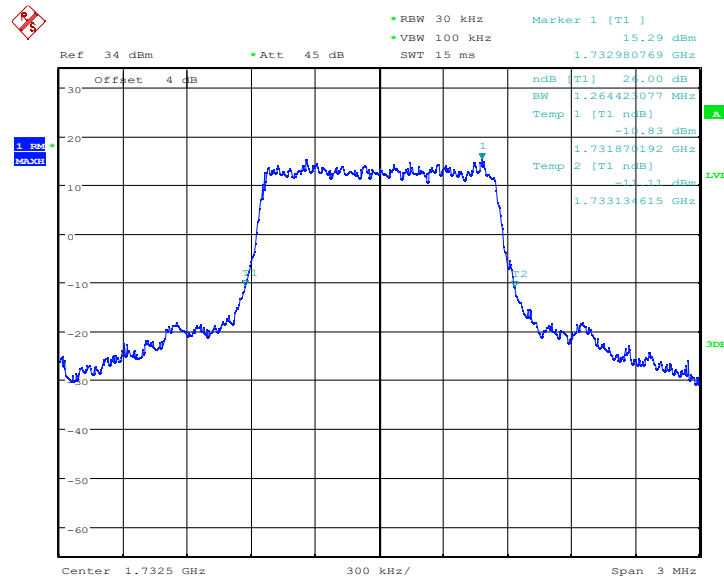


## Graphical results for LTE B4



Date: 1.SEP.2021 20:44:54

LTE Band4 QPSK 99% Channel 20175 BW=1.4MHz RB=6 RB Offset=0

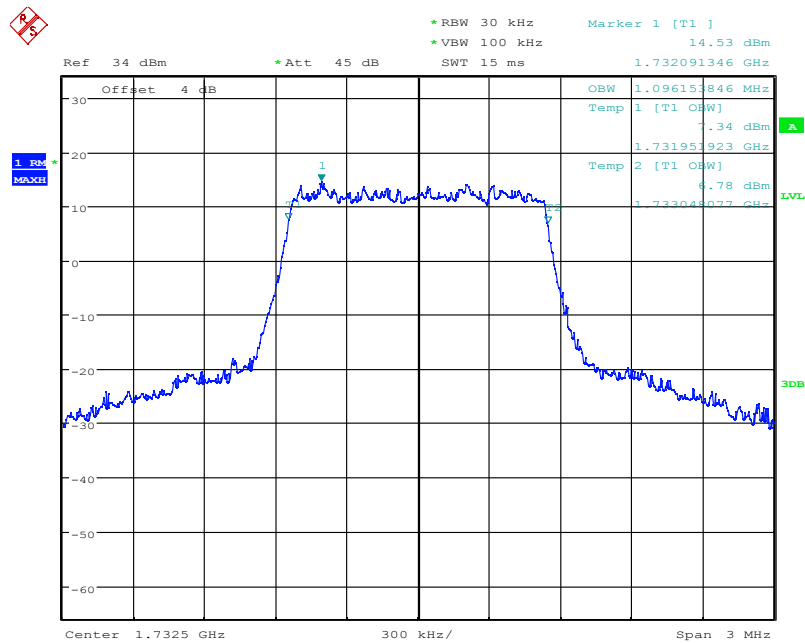


Date: 1.SEP.2021 20:44:27

LTE Band4 QPSK -26dBc Channel 20175 BW=1.4MHz RB=6 RB Offset=0

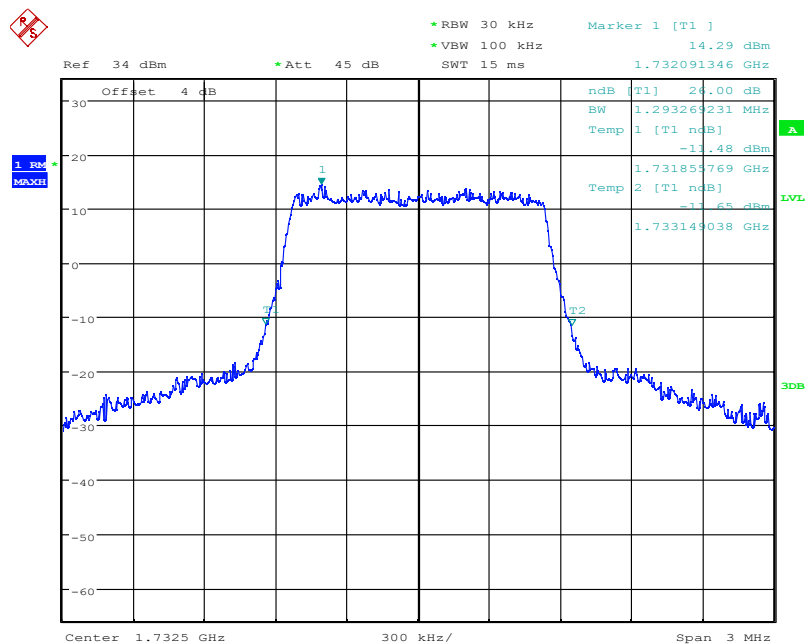
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Date: 1.SEP.2021 20:53:03

LTE Band4 16QAM 99% Channel 20175 BW=1.4MHz RB=6 RB Offset=0

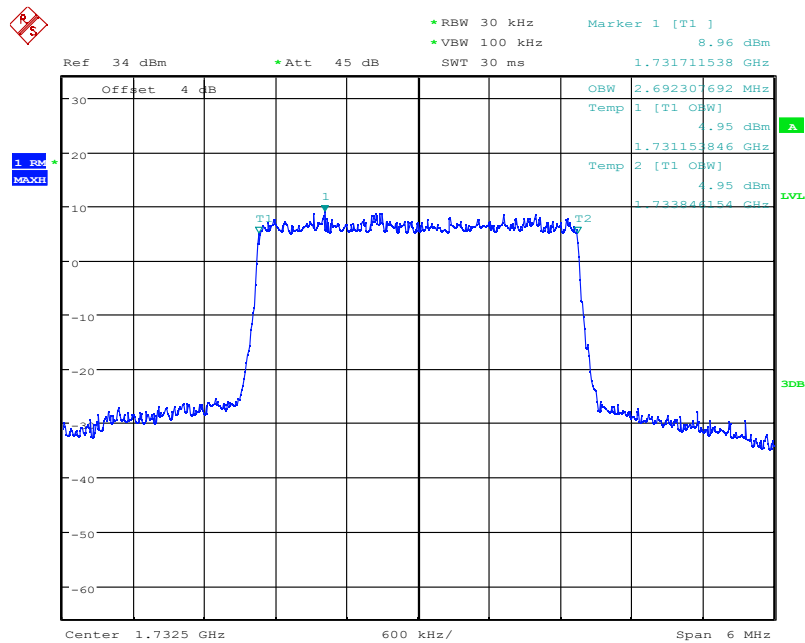


Date: 1.SEP.2021 20:52:33

LTE Band4 16QAM -26dBc Channel 20175 BW=1.4MHz RB=6 RB Offset=0

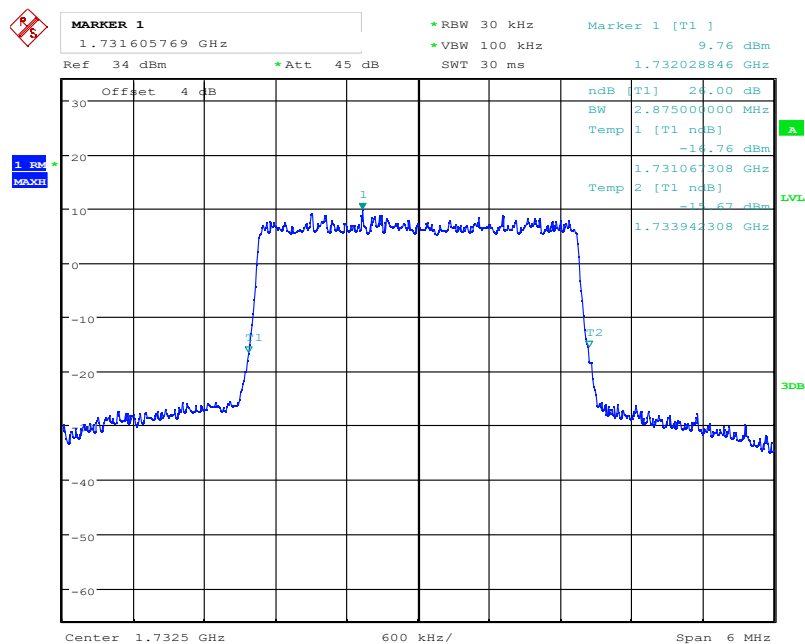
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Date: 1.SEP.2021 20:45:37

LTE Band4 QPSK 99% Channel 20175 BW=3MHz RB=15 RB Offset=0

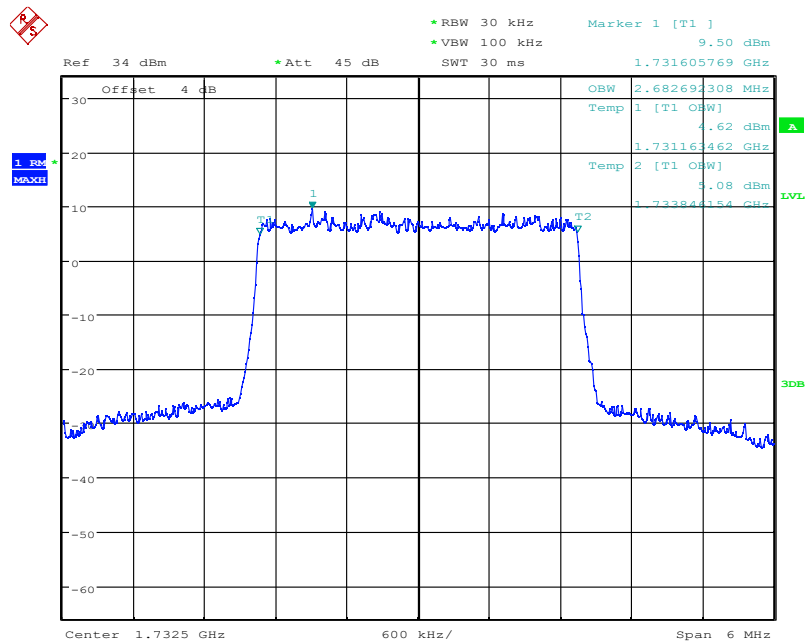


Date: 1.SEP.2021 20:46:05

LTE Band4 QPSK -26dBc Channel 20175 BW=3MHz RB=15 RB Offset=0

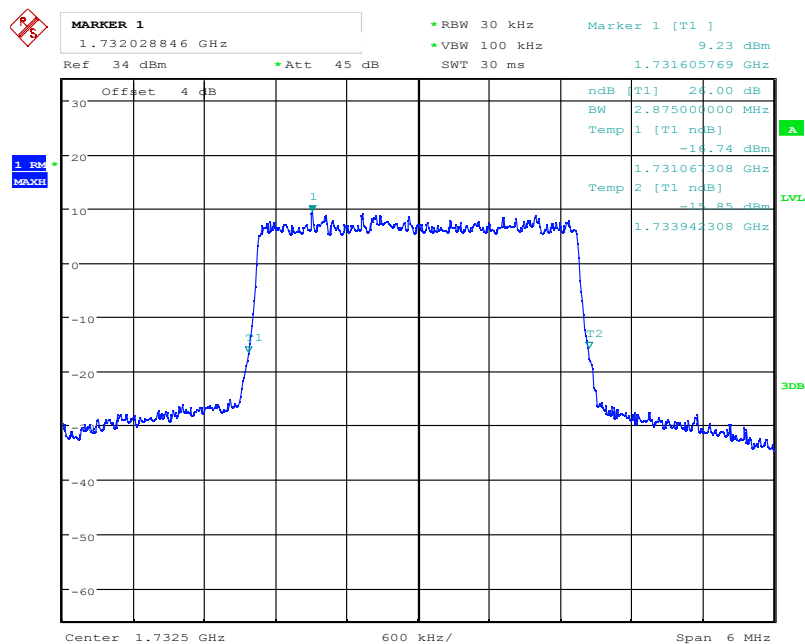
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Date: 1.SEP.2021 20:53:41

LTE Band4 16QAM 99% Channel 20175 BW=3MHz RB=15 RB Offset=0

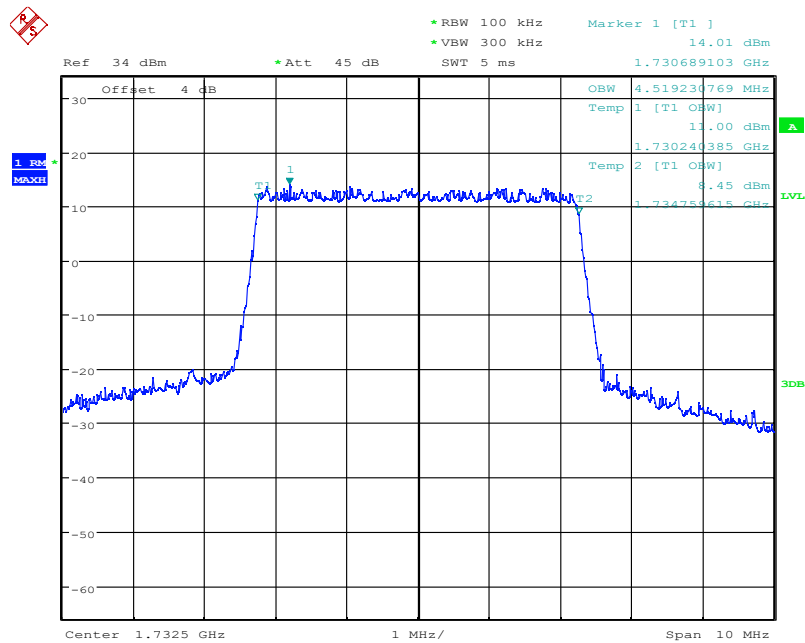


Date: 1.SEP.2021 20:54:09

LTE Band4 16QAM -26dBc Channel 20175 BW=3MHz RB=15 RB Offset=0

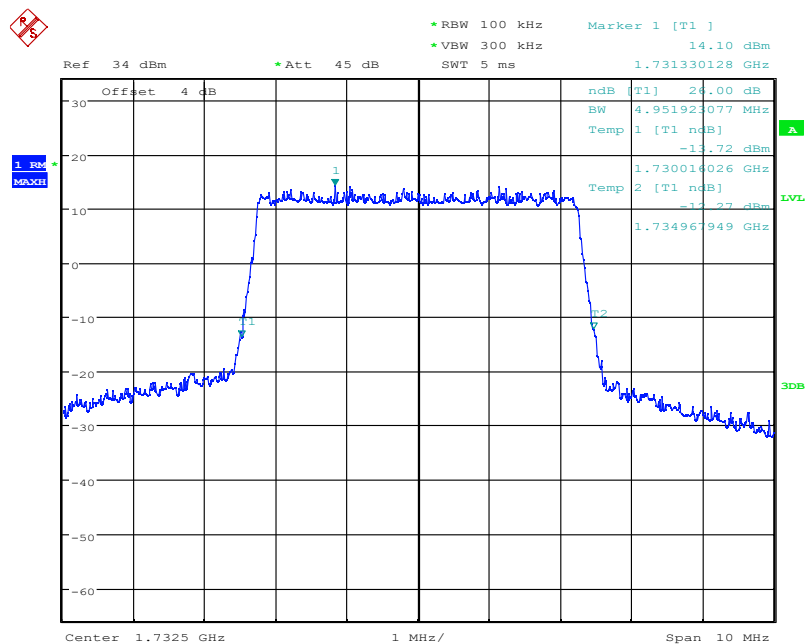
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Date: 1.SEP.2021 20:47:08

LTE Band4 QPSK 99% Channel 20175 BW=5MHz RB=25 RB Offset=0

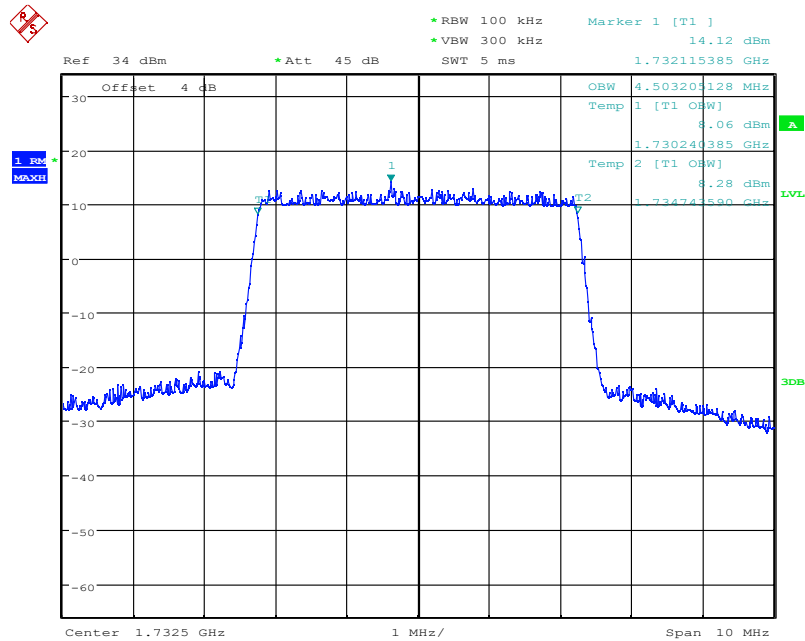


Date: 1.SEP.2021 20:46:48

LTE Band4 QPSK -26dBc Channel 20175 BW=5MHz RB=25 RB Offset=0

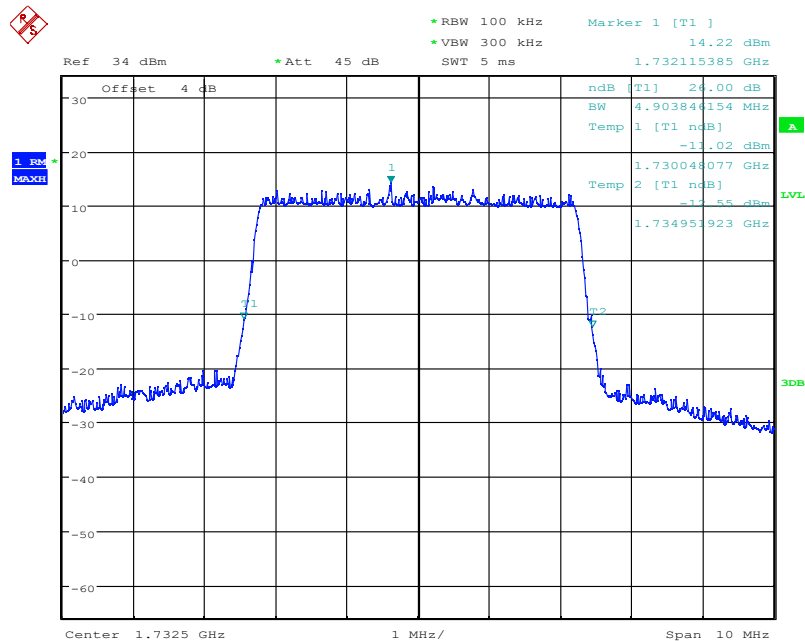
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Date: 1.SEP.2021 20:54:56

LTE Band4 16QAM 99% Channel 20175 BW=5MHz RB=25 RB Offset=0

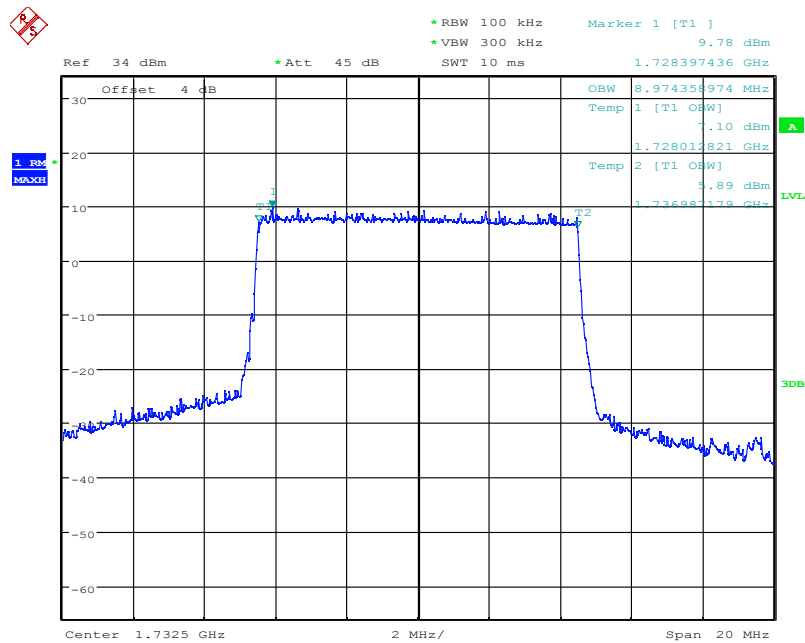


Date: 1.SEP.2021 20:54:40

LTE Band4 16QAM -26dBc Channel 20175 BW=5MHz RB=25 RB Offset=0

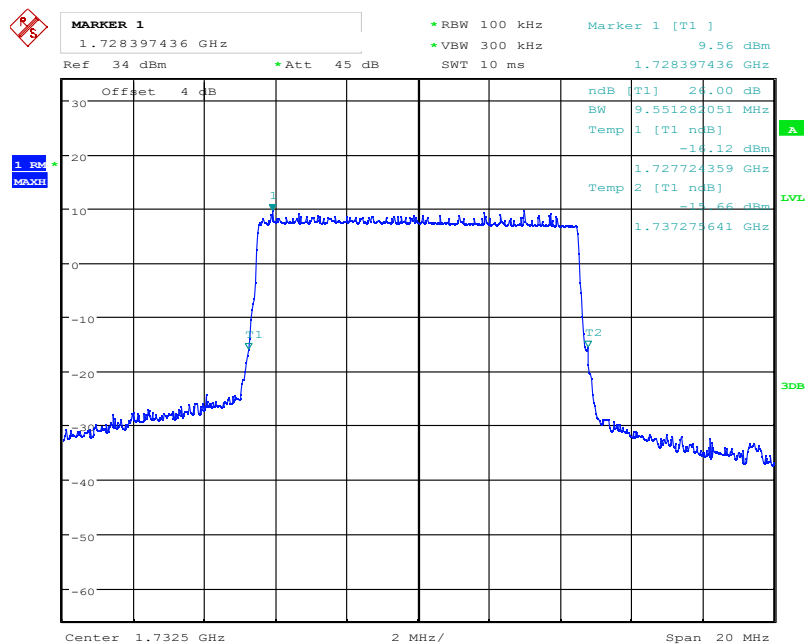
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Date: 1.SEP.2021 20:48:23

LTE Band4 QPSK 99% Channel 20175 BW=10MHz RB=50 RB Offset=0

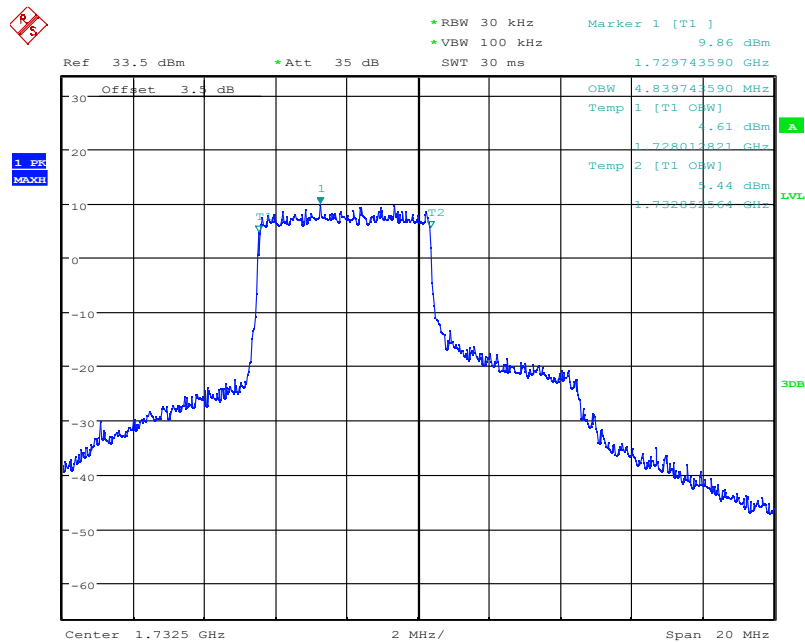


Date: 1.SEP.2021 20:48:47

LTE Band4 QPSK -26dBc Channel 20175 BW=10MHz RB=50 RB Offset=0

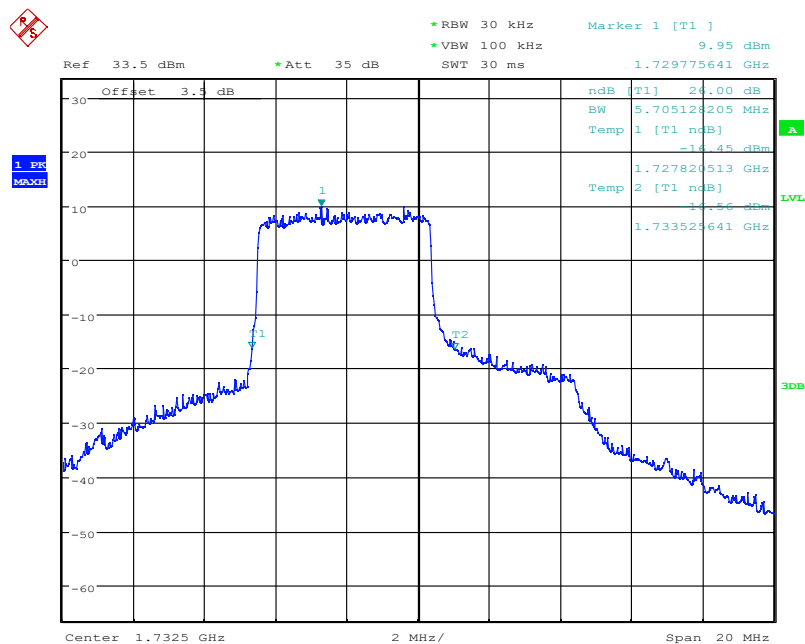
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Date: 8.SEP.2021 20:20:21

LTE Band4 16QAM 99% Channel 20175 BW=10MHz RB=27 RB Offset=0



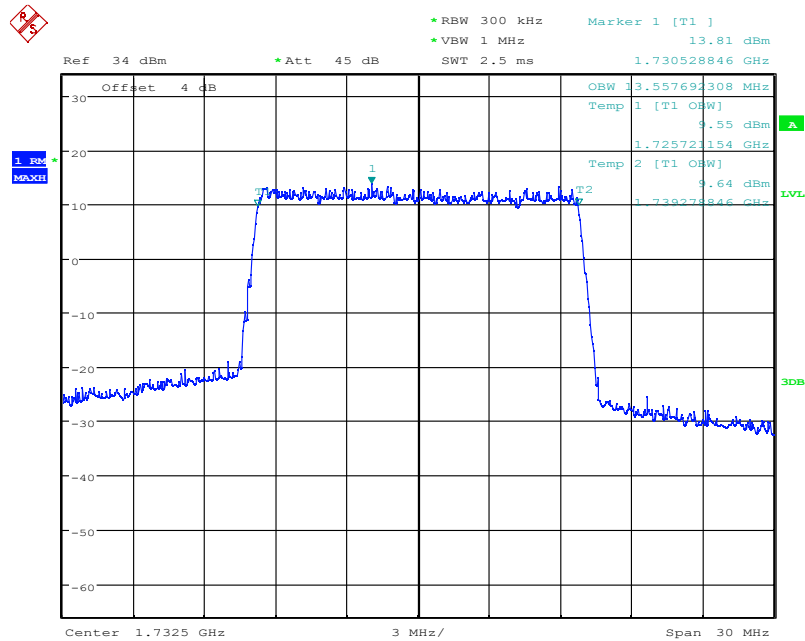
Date: 8.SEP.2021 20:20:13

LTE Band4 16QAM -26dBc Channel 20175 BW=10MHz RB=27 RB Offset=0

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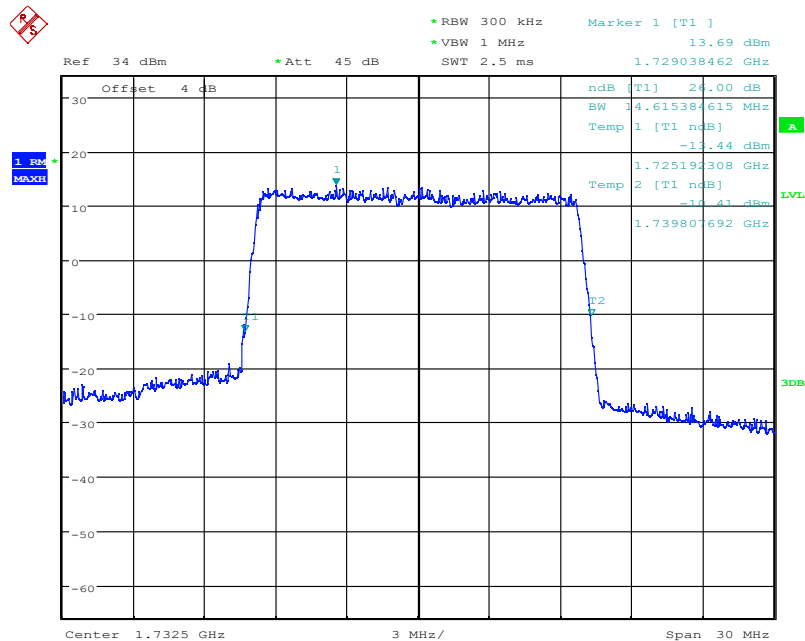
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Date: 1.SEP.2021 20:49:55

LTE Band4 QPSK 99% Channel 20175 BW=15MHz RB=75 RB Offset=0

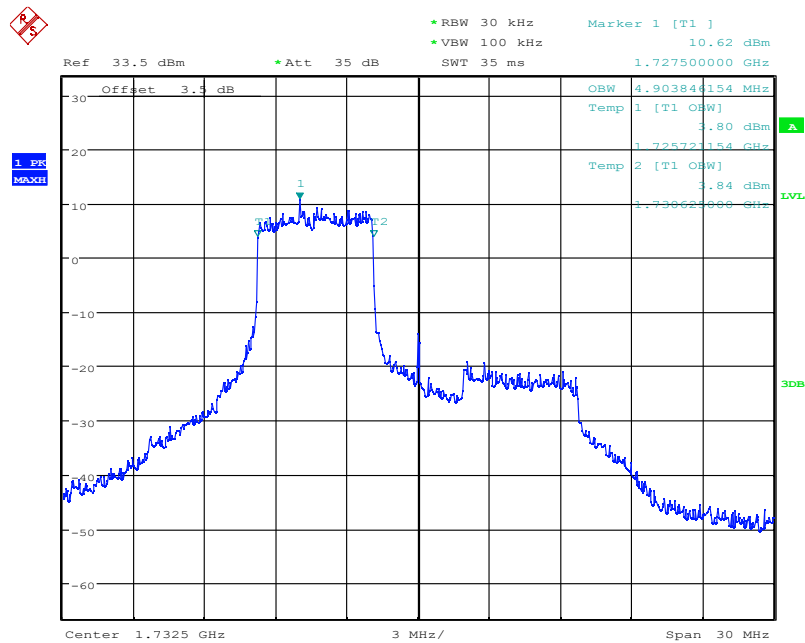


Date: 1.SEP.2021 20:49:24

LTE Band4 QPSK -26dBc Channel 20175 BW=15MHz RB=75 RB Offset=0

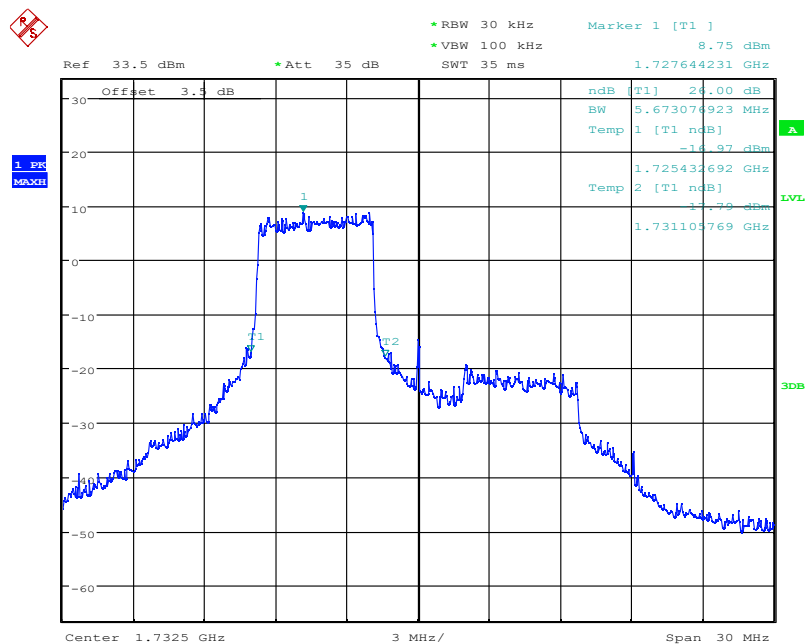
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Date: 8.SEP.2021 20:20:47

LTE Band4 16QAM 99% Channel 20175 BW=15MHz RB=27 RB Offset=0

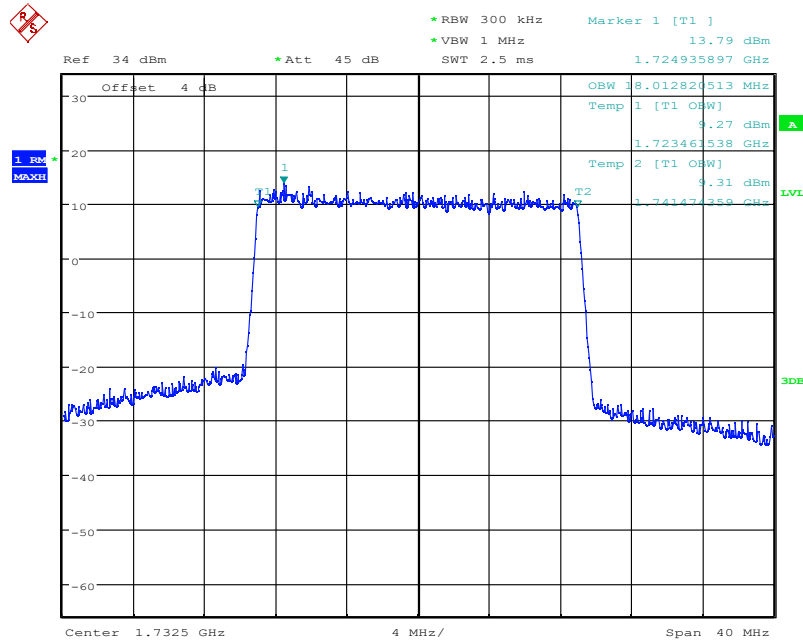


Date: 8.SEP.2021 20:20:55

LTE Band4 16QAM -26dBc Channel 20175 BW=15MHz RB=27 RB Offset=0

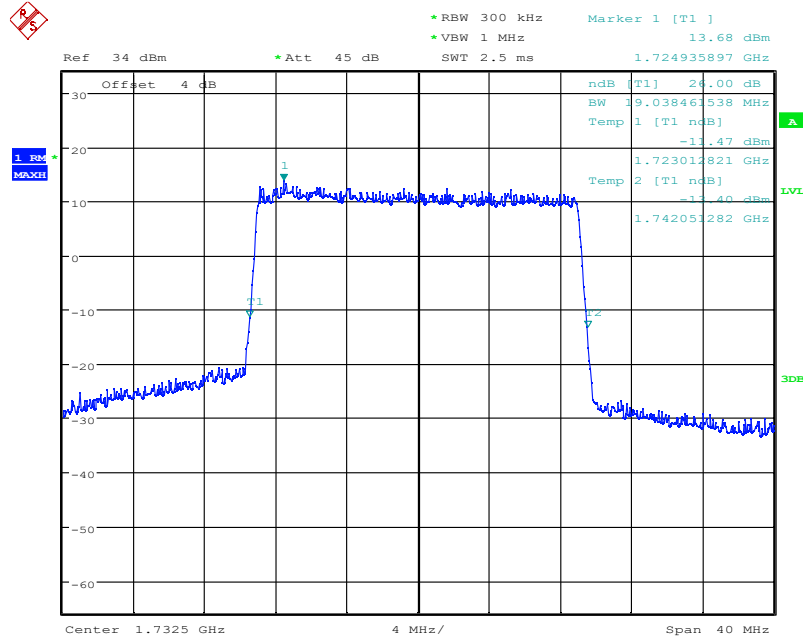
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Date: 1.SEP.2021 20:51:19

LTE Band4 QPSK 99% Channel 20175 BW=20MHz RB=100 RB Offset=0

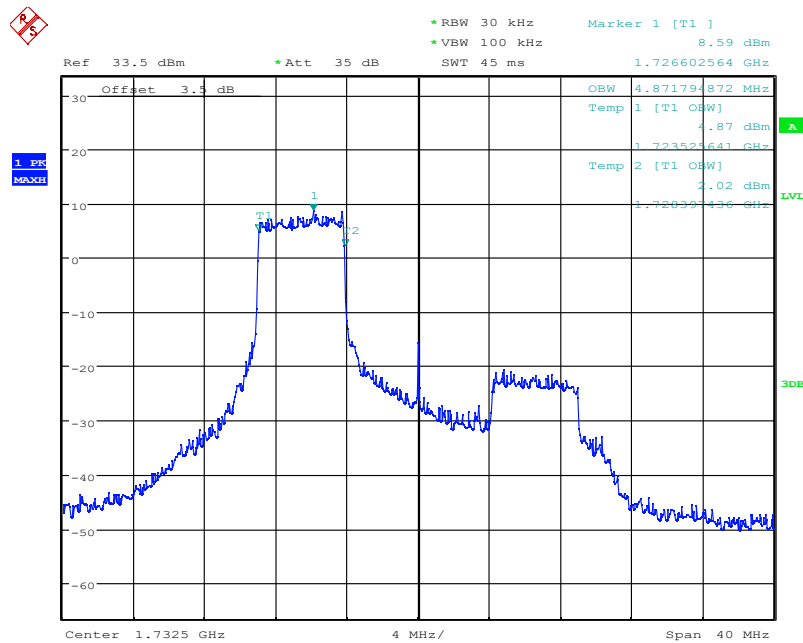


Date: 1.SEP.2021 20:51:50

LTE Band4 QPSK -26dBc Channel 20175 BW=20MHz RB=100 RB Offset=0

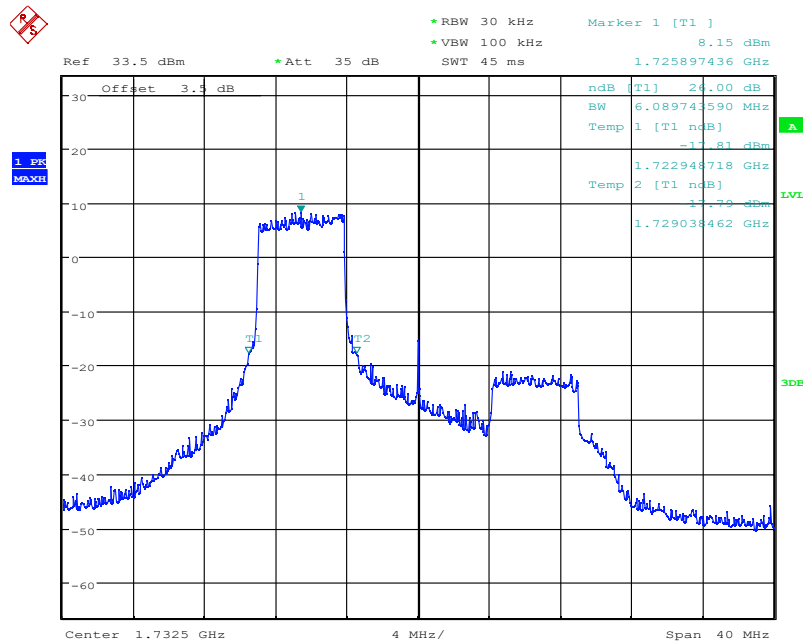
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Date: 8.SEP.2021 20:21:23

LTE Band4 16QAM 99% Channel 20175 BW=20MHz RB=27 RB Offset=0



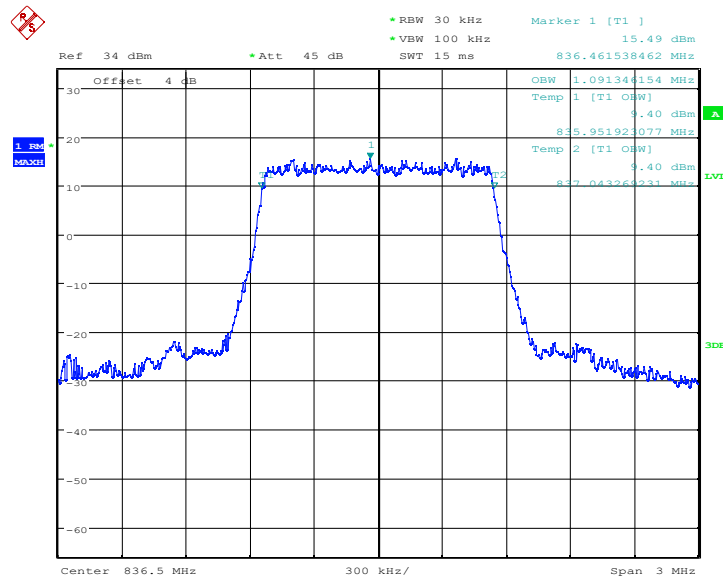
Date: 8.SEP.2021 20:21:15

LTE Band4 16QAM -26dBc Channel 20175 BW=20MHz RB=27 RB Offset=0

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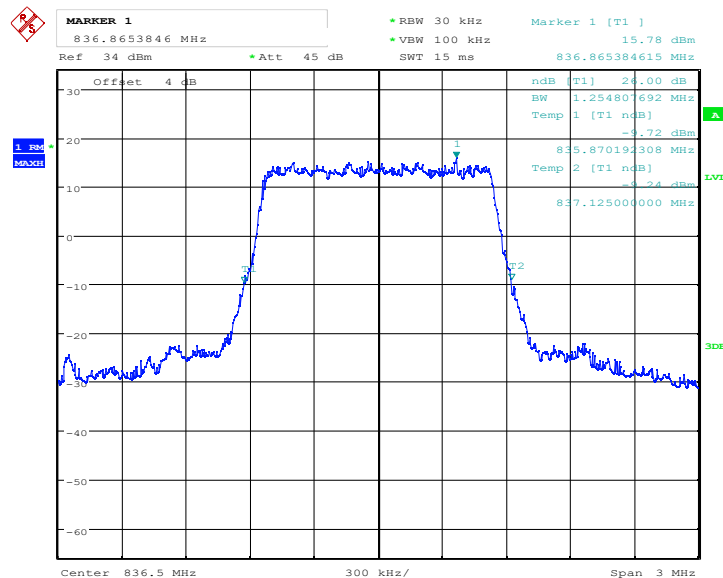
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## Graphical results for LTE B5:



Date: 1.SEP.2021 20:57:17

LTE Band5 QPSK 99% Channel 20525 BW=1.4MHz RB=6 RB Offset=0

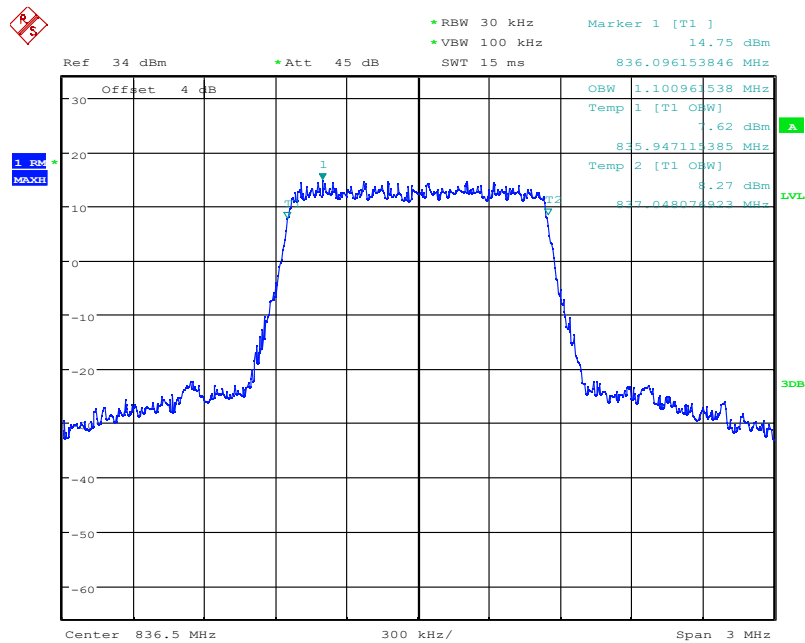


Date: 1.SEP.2021 20:57:38

LTE Band5 QPSK -26dBc Channel 20525 BW=1.4MHz RB=6 RB Offset=0

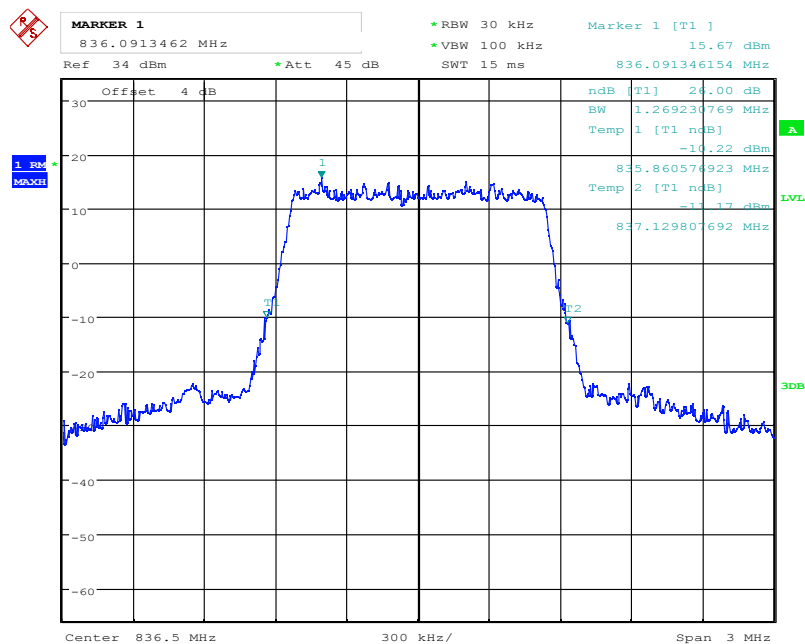
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Date: 1.SEP.2021 21:02:41

LTE Band5 16QAM 99% Channel 20525 BW=1.4MHz RB=6 RB Offset=0

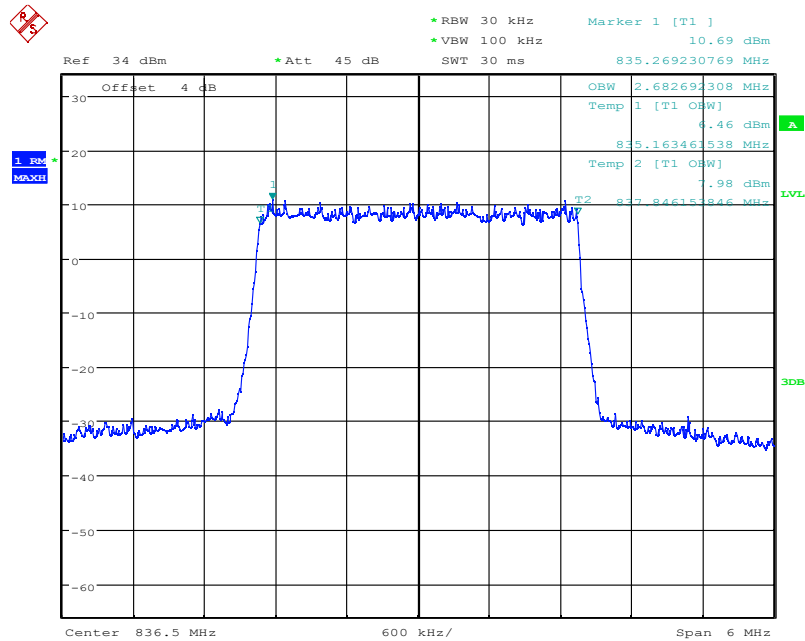


Date: 1.SEP.2021 21:03:09

LTE Band5 16QAM -26dBc Channel 20525 BW=1.4MHz RB=6 RB Offset=0

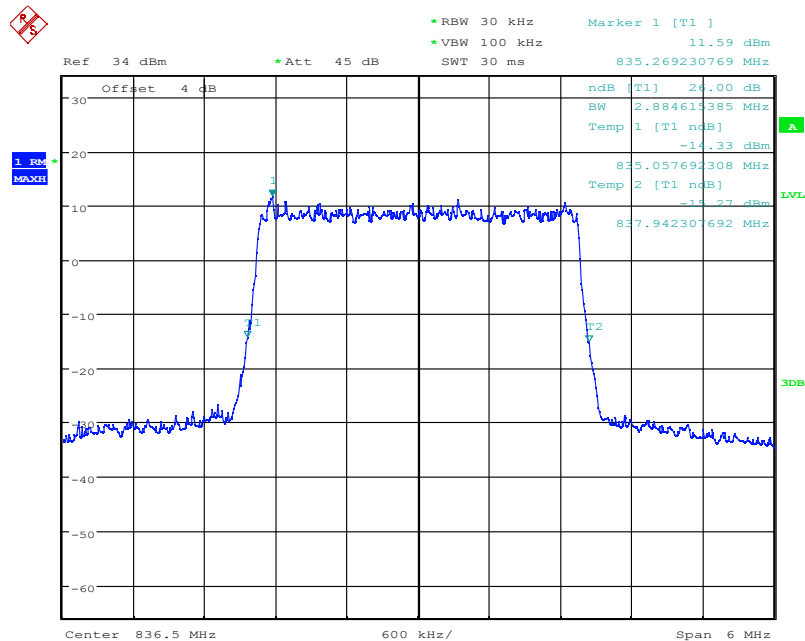
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Date: 1.SEP.2021 20:59:32

LTE Band5 QPSK 99% Channel 20525 BW=3MHz RB=15 RB Offset=0

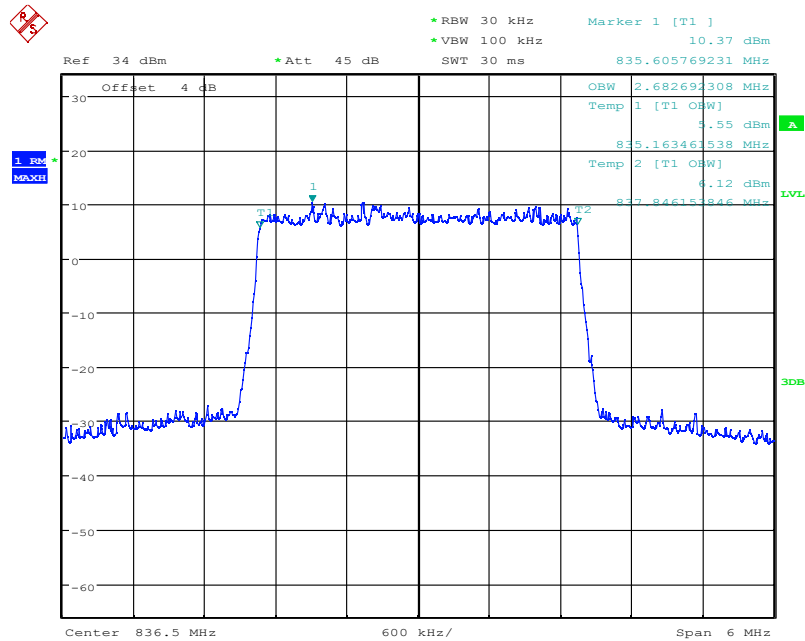


Date: 1.SEP.2021 20:58:30

LTE Band5 QPSK 16dBc Channel 20525 BW=3MHz RB=15 RB Offset=0

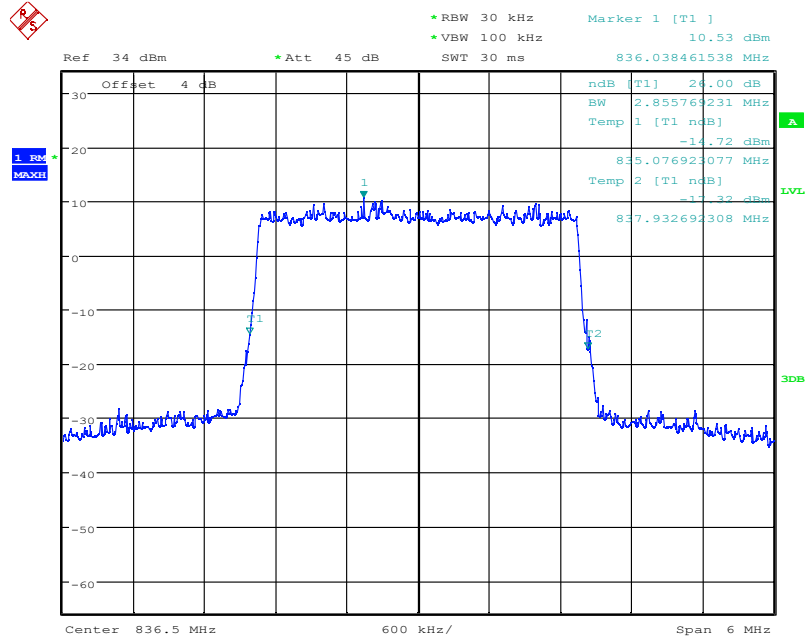
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Date: 1.SEP.2021 21:06:55

LTE Band5 16QAM 99% Channel 20525 BW=3MHz RB=15 RB Offset=0



Date: 1.SEP.2021 21:03:45

LTE Band5 16QAM -26dBc Channel 20525 BW=3MHz RB=15 RB Offset=0

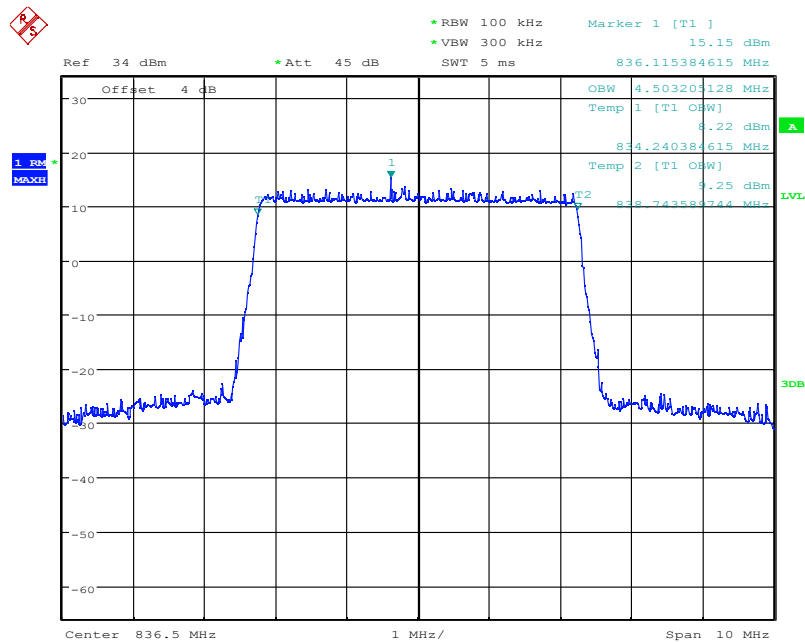
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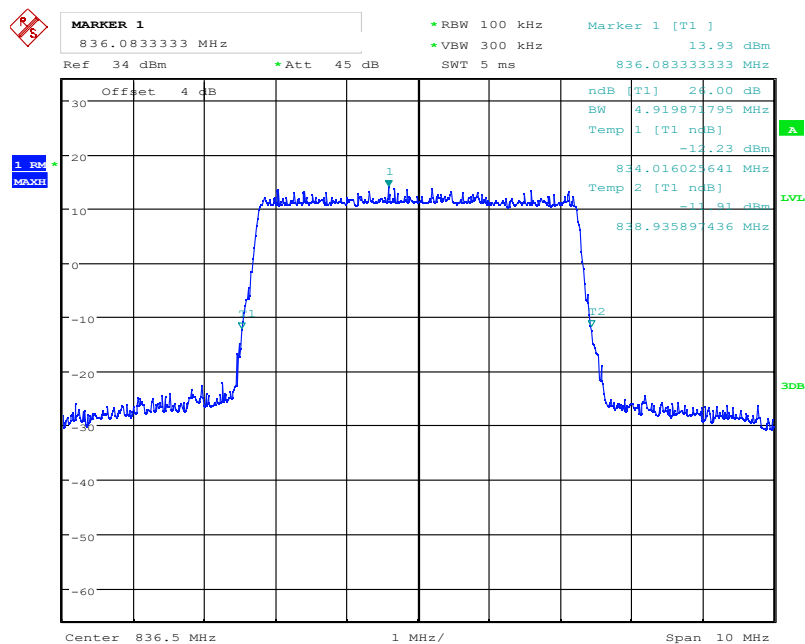


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Date: 1.SEP.2021 21:07:50

LTE Band5 16QAM 99% Channel 20525 BW=5MHz RB=25 RB Offset=0

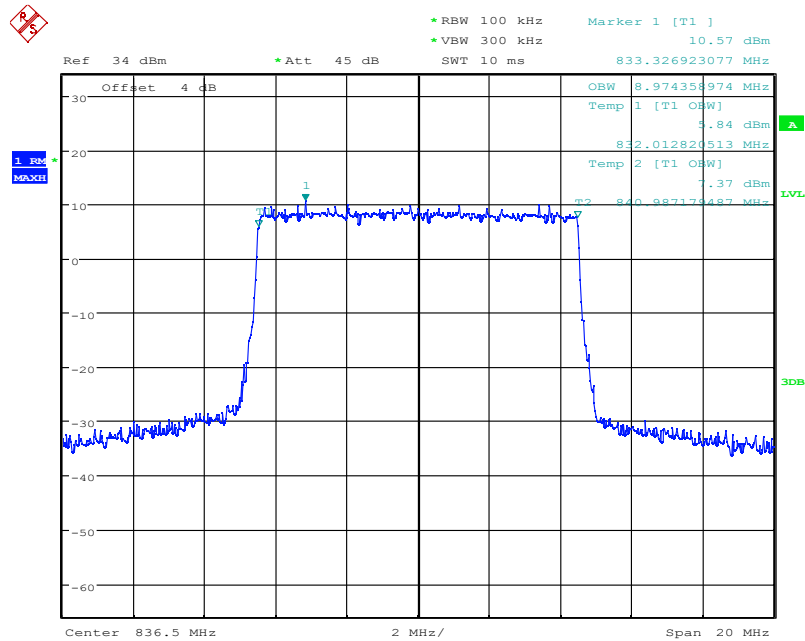


Date: 1.SEP.2021 21:08:15

LTE Band5 16QAM -26dBc Channel 20525 BW=5MHz RB=25 RB Offset=0

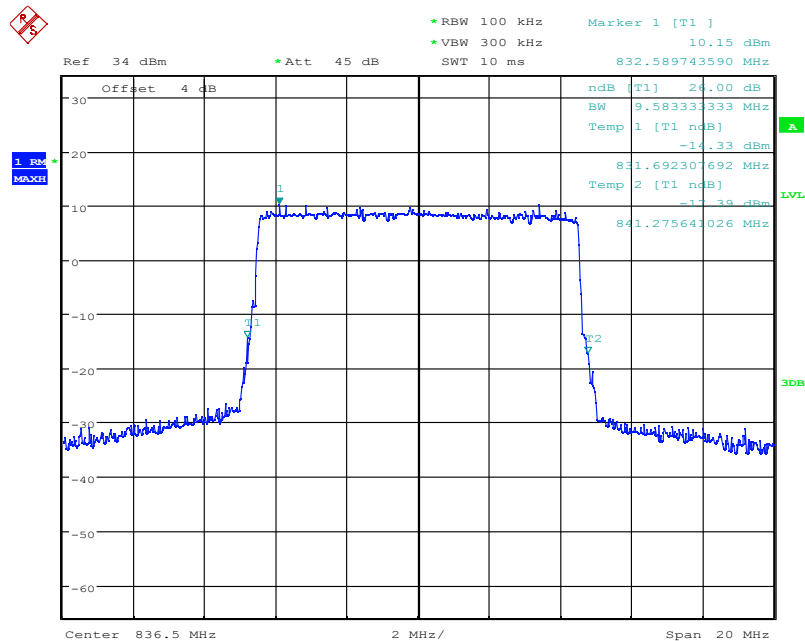
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Date: 1.SEP.2021 21:01:33

LTE Band5 QPSK 99% Channel 20525 BW=10MHz RB=50 RB Offset=0

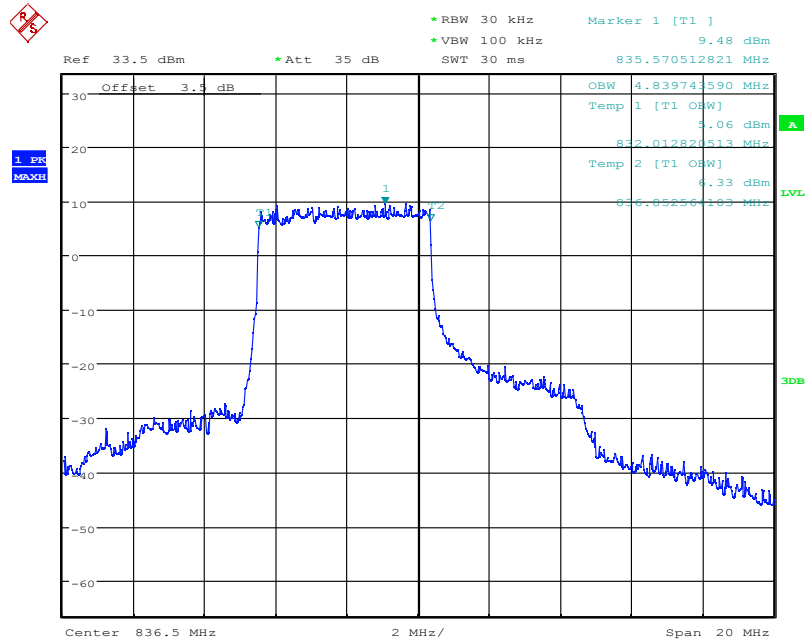


Date: 1.SEP.2021 21:01:14

LTE Band5 QPSK -26dBc Channel 20525 BW=10MHz RB=50 RB Offset=0

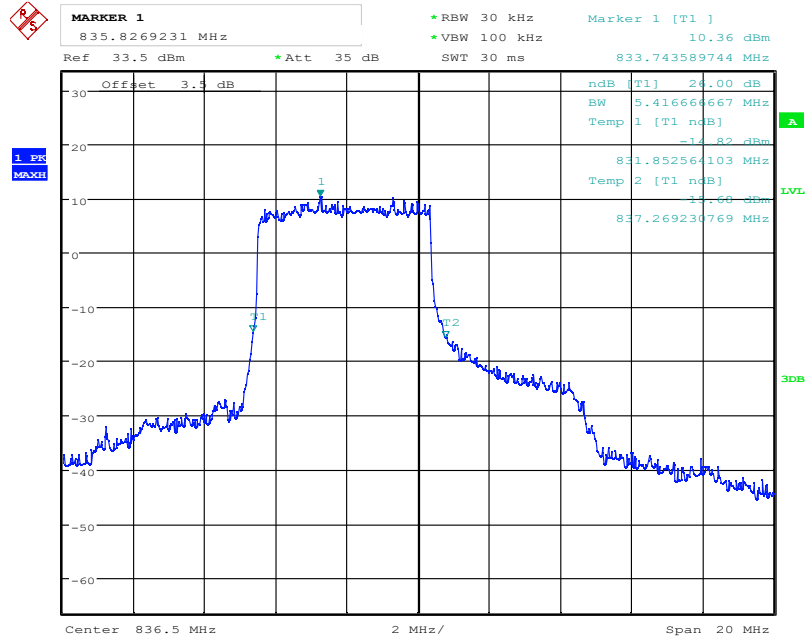
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Date: 8.SEP.2021 20:23:20

LTE Band5 16QAM 99% Channel 20525 BW=10MHz RB=27 RB Offset=0



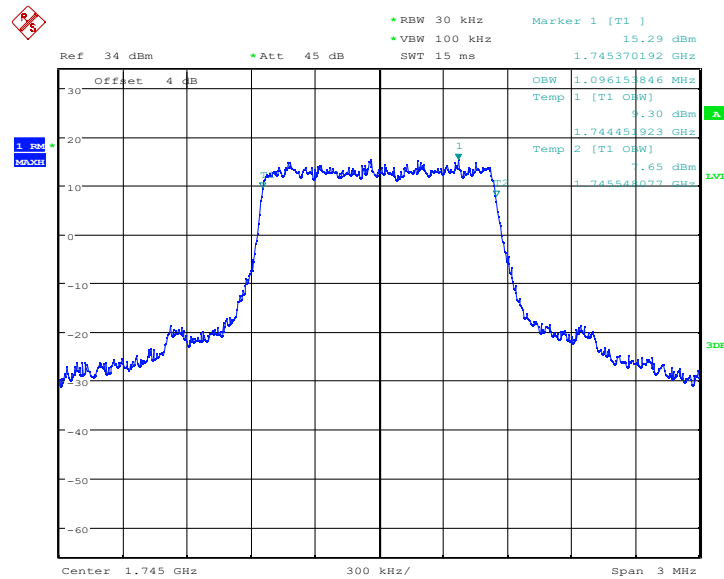
Date: 8.SEP.2021 20:23:32

LTE Band5 16QAM -26dBc Channel 20525 BW=10MHz RB=27 RB Offset=0

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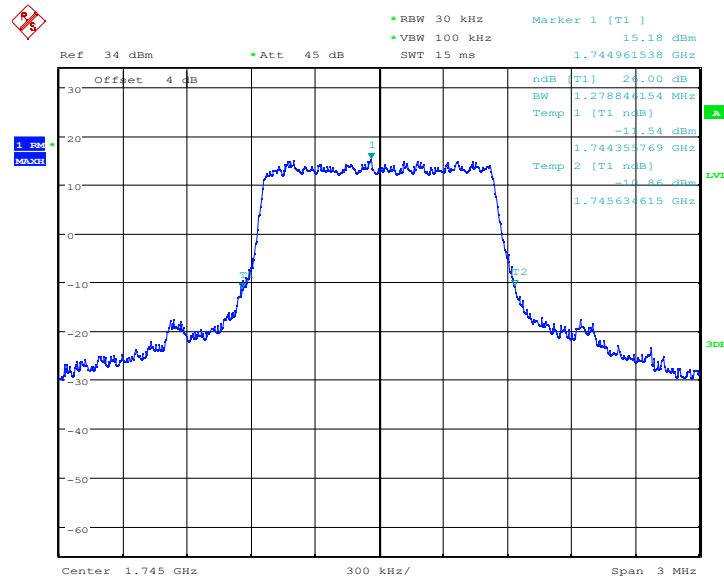
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## Graphical results for LTE B66:



Date: 1.SEP.2021 21:14:54

LTE Band66 QPSK 99% Channel 132322 BW=1.4MHz RB=6 RB Offset=0

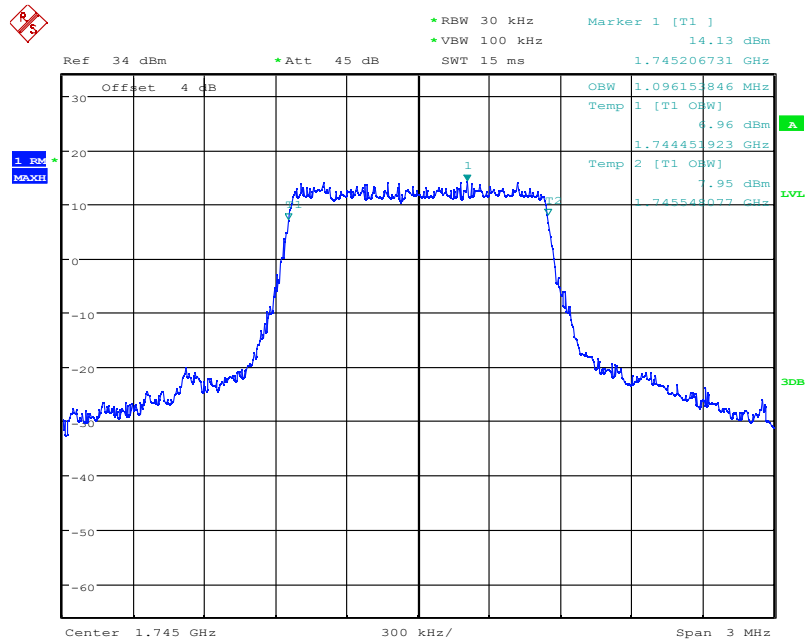


Date: 1.SEP.2021 21:14:30

LTE Band66 QPSK -26dBc Channel 132322 BW=1.4MHz RB=6 RB Offset=0

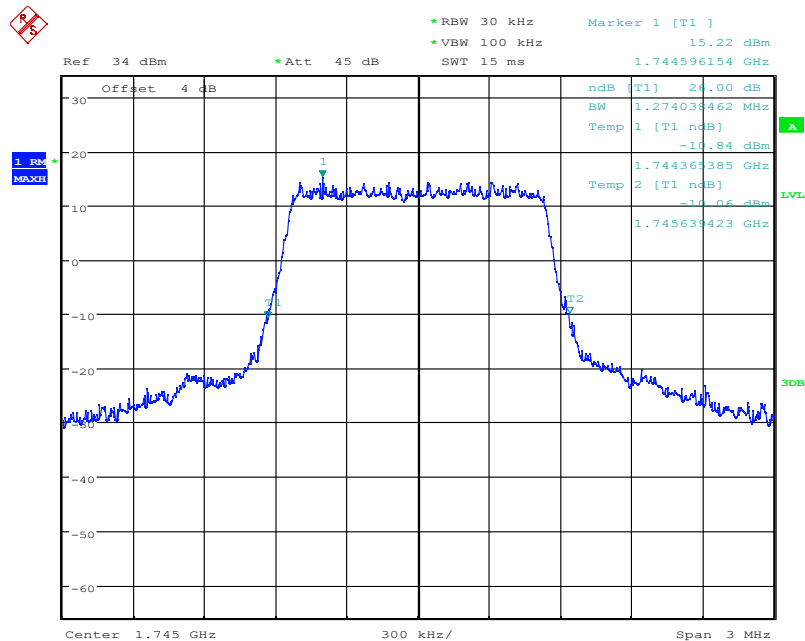
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Date: 1.SEP.2021 21:22:43

LTE Band66 16QAM 99% Channel 132322 BW=1.4MHz RB=6 RB Offset=0

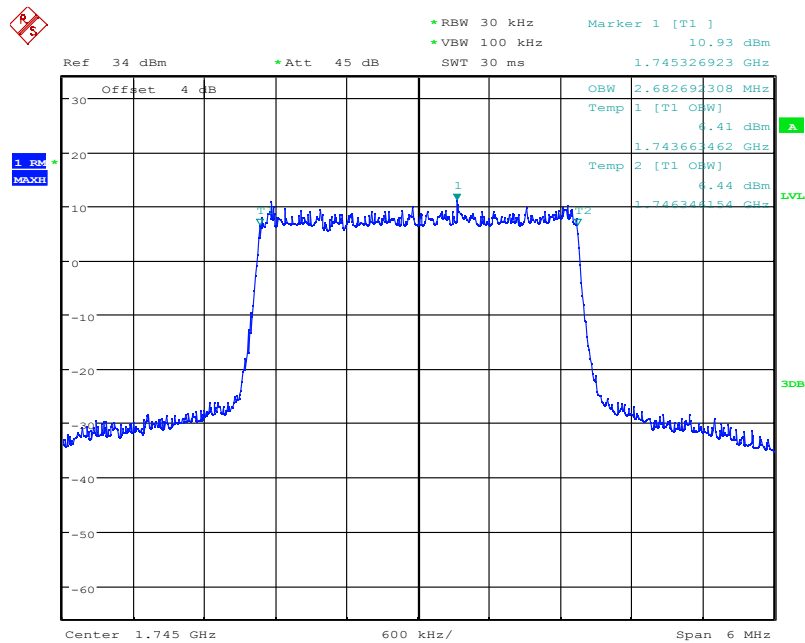


Date: 1.SEP.2021 21:22:24

LTE Band66 16QAM -26dBc Channel 132322 BW=1.4MHz RB=6 RB Offset=0

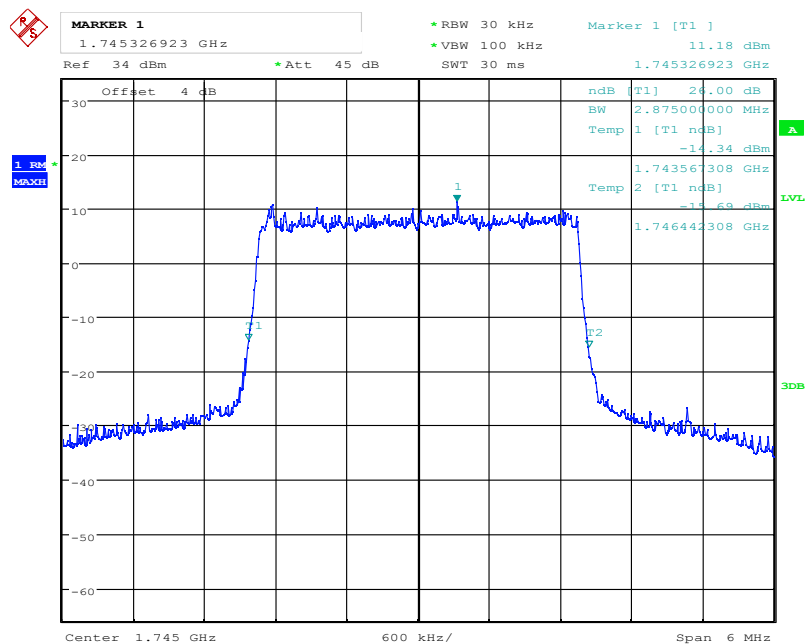
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Date: 1.SEP.2021 21:15:30

LTE Band66 QPSK 99% Channel 132322 BW=3MHz RB=15 RB Offset=0

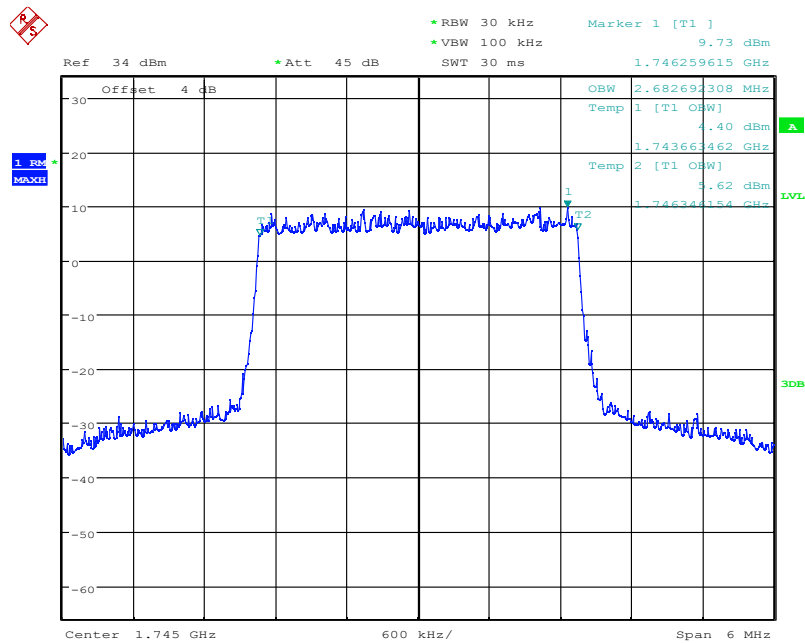


Date: 1.SEP.2021 21:15:57

LTE Band66 QPSK 26dBc Channel 132322 BW=3MHz RB=15 RB Offset=0

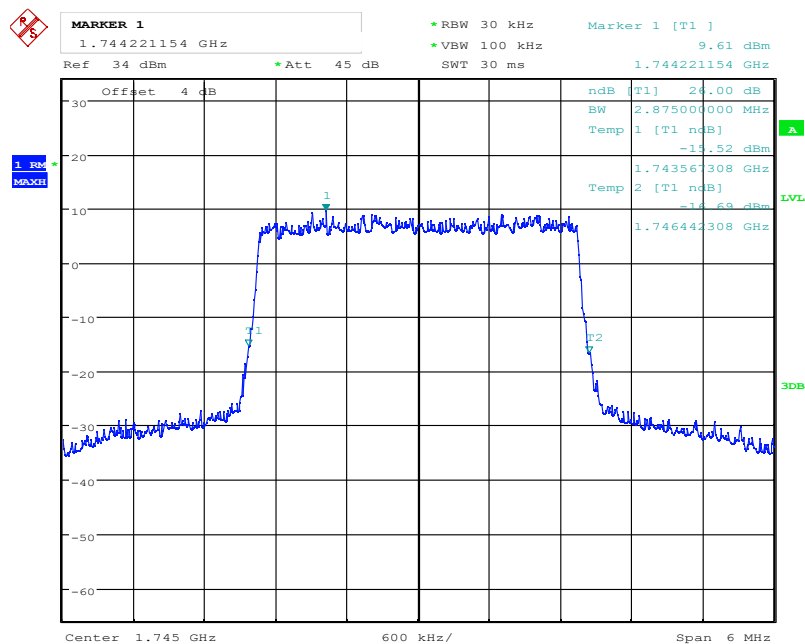
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Date: 1.SEP.2021 21:23:06

LTE Band66 16QAM 99% Channel 132322 BW=3MHz RB=15 RB Offset=0



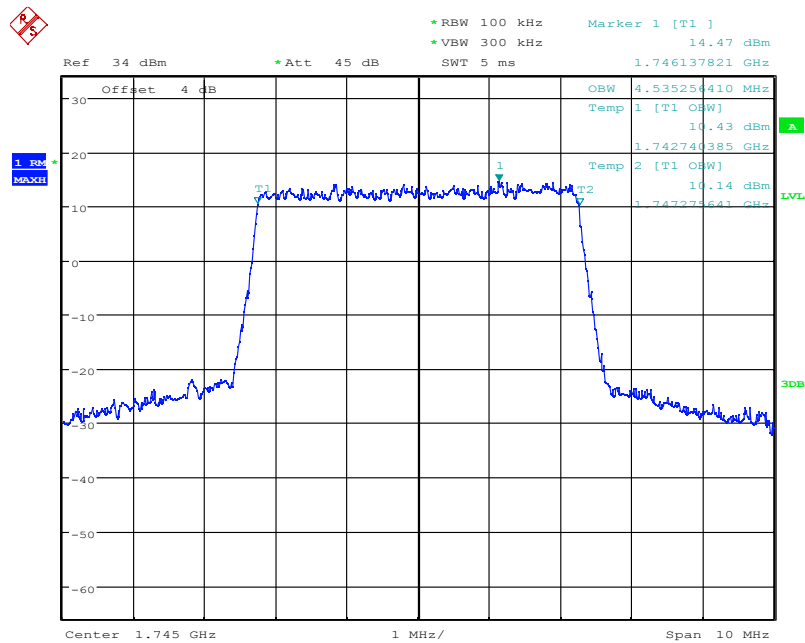
Date: 1.SEP.2021 21:23:22

LTE Band66 16QAM -26dBc Channel 132322 BW=3MHz RB=15 RB Offset=0

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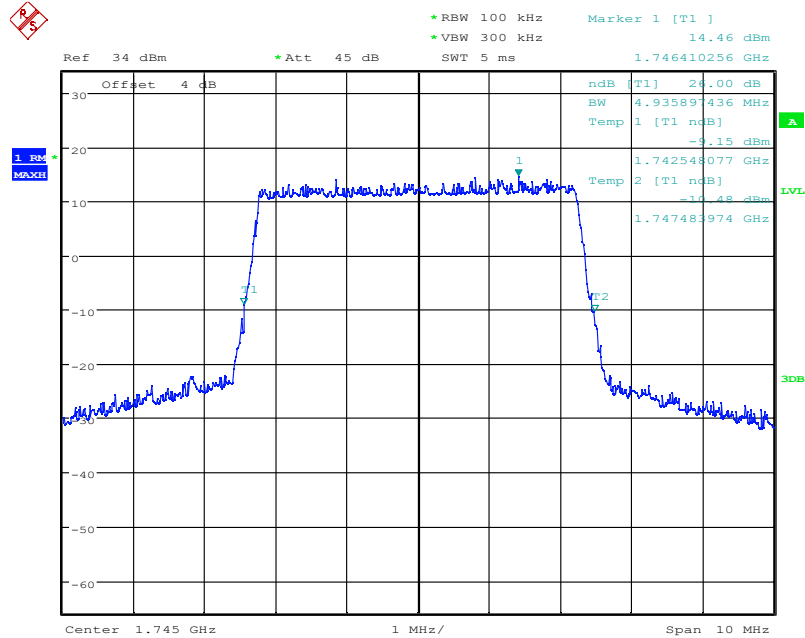
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Date: 1.SEP.2021 21:18:18

LTE Band66 QPSK 99% Channel 132322 BW=5MHz RB=25 RB Offset=0



Date: 1.SEP.2021 21:16:42

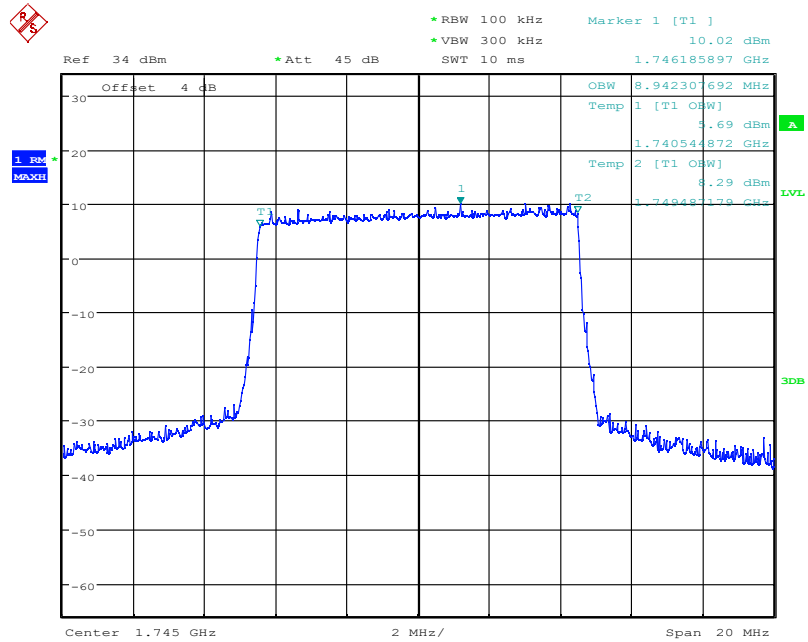
LTE Band66 QPSK -26dBc Channel 132322 BW=5MHz RB=25 RB Offset=0

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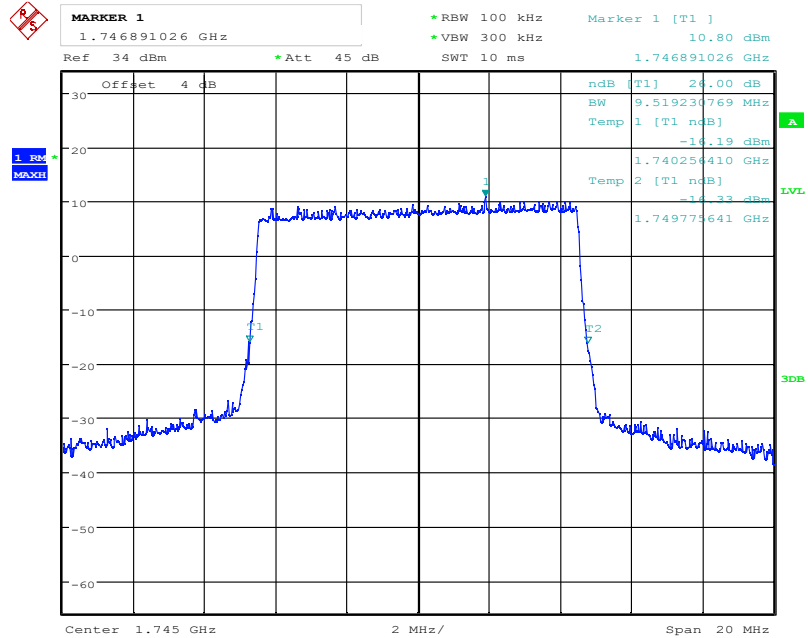


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Date: 1.SEP.2021 21:18:48

LTE Band66 QPSK 99% Channel 132322 BW=10MHz RB=50 RB Offset=0

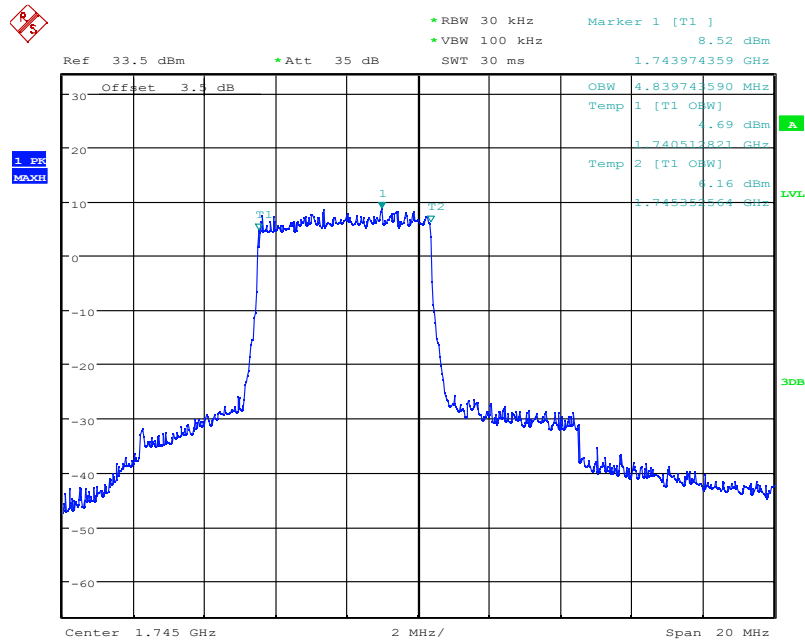


Date: 1.SEP.2021 21:19:17

LTE Band66 QPSK -26dBc Channel 132322 BW=10MHz RB=50 RB Offset=0

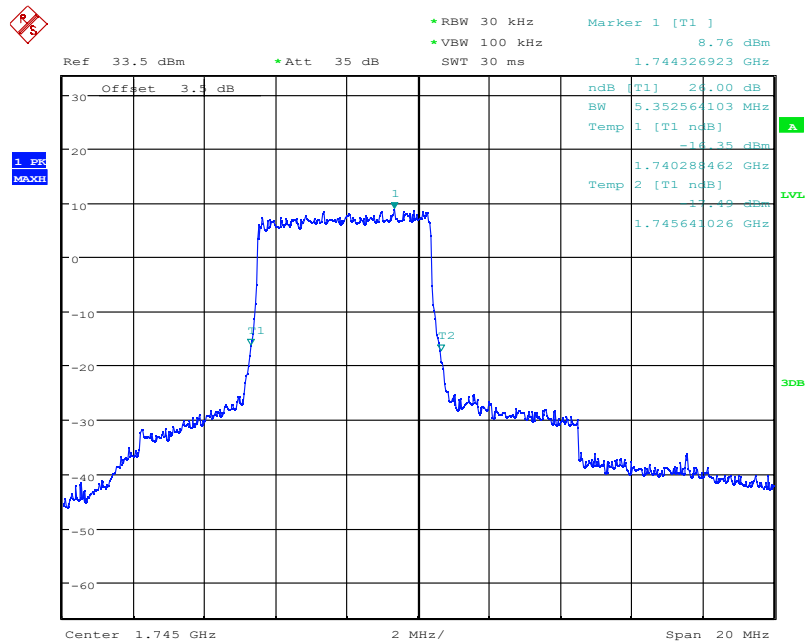
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Date: 8.SEP.2021 20:27:08

LTE Band66 16QAM 99% Channel 132322 BW=10MHz RB=27 RB Offset=0



Date: 8.SEP.2021 20:26:59

LTE Band66 16QAM -26dBc Channel 132322 BW=10MHz RB=27 RB Offset=0

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