

# **FCC REPORT**

## **(LTE)**

**Applicant:** SWAGTEK

**Address of Applicant:** 10205 NW 19th St. Suite 101, Miami, FL, 33172

**Equipment Under Test (EUT)**

Product Name: 6.09 inch 4G Smart Phone

Model No.: L61, PRIME, UN61

Trade mark: LOGIC, iSWAG, UNONU

**FCC ID:** O55602520

**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 22 Subpart H  
FCC CFR Title 47 Part 24 Subpart E  
FCC CFR Title 47 Part 27 Subpart L  
FCC CFR Title 47 Part 27 Subpart M  
FCC CFR Title 47 Part 27 Subpart E  
FCC CFR Title 47 Part 27 Subpart H

**Date of sample receipt:** 22 Jun., 2020

**Date of Test:** 23 Jun., to 28 Jul., 2020

**Date of report issued:** 11 Aug., 2020

**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2. Version

| Version No. | Date          | Description          |
|-------------|---------------|----------------------|
| 00          | 30 Jul., 2020 | Original             |
| 01          | 11 Aug., 2020 | Update Page 146, 147 |
|             |               |                      |
|             |               |                      |
|             |               |                      |

Tested by: Mike.ou Date: 11 Aug., 2020  
Test Engineer

Reviewed by: Winner Zhang Date: 11 Aug., 2020  
Project Engineer

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#### 4. Test Summary

| Test Items                                                                                                                                                                                                                                                                                                  | Section in CFR 47                                                                                                                          | Result                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| RF Exposure (SAR)                                                                                                                                                                                                                                                                                           | Part 1.1307<br>Part 2.1093                                                                                                                 | Passed<br>(Please refer to SAR Report) |
| RF Output Power                                                                                                                                                                                                                                                                                             | Part 2.1046<br>Part 22.913 (a)(5)<br>Part 24.232 (c)<br>Part 27.50 (c)(10)<br>Part 27.50 (d)(4)<br>Part 27.50 (b)(10)<br>Part 27.50 (h)(2) | Pass                                   |
| Peak-to-Average Ratio                                                                                                                                                                                                                                                                                       | Part 24.232 (d)<br>Part 27.50(d)(5)                                                                                                        | Pass                                   |
| Modulation Characteristics                                                                                                                                                                                                                                                                                  | Part 2.1047                                                                                                                                | Pass                                   |
| 99% & -26 dB Occupied Bandwidth                                                                                                                                                                                                                                                                             | Part 2.1049<br>Part 22.917(b)<br>Part 24.238(b)<br>Part 27.53(g)<br>Part 27.53(h)<br>Part 27.53(m)                                         | Pass                                   |
| Out of band emission at antenna terminals                                                                                                                                                                                                                                                                   | Part 2.1053<br>Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<br>Part 27.53 (c)<br>Part 27.53(m)                    | Pass                                   |
| Field strength of spurious radiation                                                                                                                                                                                                                                                                        | Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<br>Part 27.53 (c)<br>Part 27.53(m)                                   | Pass                                   |
| Frequency stability vs. temperature                                                                                                                                                                                                                                                                         | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(a)(1)(b)                                                                           | Pass                                   |
| Frequency stability vs. voltage                                                                                                                                                                                                                                                                             | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(d)(2)                                                                              | Pass                                   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer). |                                                                                                                                            |                                        |
| <b>Test Method:</b>                                                                                                                                                                                                                                                                                         | ANSI/TIA-603-E-2016<br>ANSI C63.26-2015                                                                                                    |                                        |

## 5. General Information

### 5.1 Client Information

|                        |                                               |
|------------------------|-----------------------------------------------|
| Applicant:             | SWAGTEK                                       |
| Address:               | 10205 NW 19th St. Suite 101, Miami, FL, 33172 |
| Manufacturer/ Factory: | SWAGTEK                                       |
| Address:               | 10205 NW 19th St. Suite 101, Miami, FL, 33172 |

### 5.2 General Description of E.U.T.

|                            |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:              | 6.09 inch 4G Smart Phone                                                                                                                                                                                                                                                                                                                                                                |
| Model No.:                 | L61, PRIME, UN61                                                                                                                                                                                                                                                                                                                                                                        |
| Operation Frequency range: | LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz<br>LTE Band 4: TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz<br>LTE Band 5: TX: 824MHz-849MHz, RX: 869MHz-894MHz<br>LTE Band 7: TX: 2500MHz-2570MHz, RX: 2620MHz-2690MHz<br>LTE Band 12: TX: 699MHz-716MHz, RX: 729MHz-746MHz<br>LTE Band 13: TX: 777MHz-787MHz, RX: 746MHz-756MHz<br>LTE Band 17: TX: 704MHz-716MHz, RX: 734MHz-746MHz |
| Modulation type:           | QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                             |
| Antenna type:              | Internal Antenna                                                                                                                                                                                                                                                                                                                                                                        |
| Antenna gain:              | LTE Band 2: 0.56dBi<br>LTE Band 4: 0.92dBi<br>LTE Band 5: -1.08dBi<br>LTE Band 7: -1.10dBi<br>LTE Band 12: -1.43dBi<br>LTE Band 13: -1.35dBi<br>LTE Band 17: -1.28dBi                                                                                                                                                                                                                   |
| Power supply:              | Rechargeable Li-ion Battery DC3.8V, 2950mAh                                                                                                                                                                                                                                                                                                                                             |
| AC adapter:                | Model:MST-0501000F<br>Input: AC100-240V, 50/60Hz, 0.2A<br>Output: DC 5V, 1A                                                                                                                                                                                                                                                                                                             |
| Remark:                    | The Model No.: L61, PRIME, UN61 were identical inside, the electrical circuit design, layout, components used and internal wiring, The only difference between them is as follows:<br>The trademark LOGIC correspond model L61;<br>The trademark iSWAG correspond model PRIME;<br>The trademark UNONU correspond model UN61.                                                            |
| Test Sample Condition:     | The applicant provided engineering samples for staying in continuously transmitting for testing.                                                                                                                                                                                                                                                                                        |

## Operation Frequency List:

| LTE Band 2 (1.4MHz) |                 | LTE Band 2 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18607               | 1850.70         | 18615              | 1851.50         |
| 18608               | 1850.80         | 18616              | 1851.60         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19193               | 1909.20         | 19185              | 1908.40         |
| 19194               | 1909.30         | 19186              | 1908.50         |
| LTE Band 2 (5MHz)   |                 | LTE Band 2 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18625               | 1852.50         | 18650              | 1855.00         |
| 18626               | 1852.60         | 18651              | 1855.10         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19175               | 1907.40         | 19150              | 1904.90         |
| 19176               | 1907.50         | 19151              | 1905.00         |
| LTE Band 2 (15MHz)  |                 | LTE Band 2 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18675               | 1857.50         | 18700              | 1860.00         |
| 18676               | 1857.60         | 18701              | 1860.10         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19125               | 1902.40         | 19100              | 1899.90         |
| 19126               | 1902.50         | 19101              | 1900.00         |

| LTE Band 4 (1.4MHz) |                 | LTE Band 4 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 19957               | 1710.70         | 19965              | 1711.50         |
| 19958               | 1710.80         | 19966              | 1711.60         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20392               | 1754.20         | 20384              | 1753.40         |
| 20393               | 1754.30         | 20385              | 1753.50         |
| LTE Band 4 (5MHz)   |                 | LTE Band 4 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 19975               | 1712.50         | 20000              | 1715.00         |
| 19976               | 1712.60         | 20001              | 1715.10         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20374               | 1752.40         | 20349              | 1749.90         |
| 20375               | 1752.50         | 20350              | 1750.00         |
| LTE Band 4 (15MHz)  |                 | LTE Band 4 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20025               | 1717.50         | 20050              | 1720.00         |
| 20026               | 1717.60         | 20051              | 1720.10         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20324               | 1747.40         | 20299              | 1744.90         |
| 20325               | 1747.50         | 20300              | 1745.00         |

| LTE Band 5 (1.4MHz) |                 | LTE Band 5 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20407               | 824.70          | 20415              | 825.50          |
| 20408               | 824.80          | 20416              | 825.60          |
| ....                | ....            | ....               | ....            |
| 20524               | 836.40          | 20524              | 836.40          |
| 20525               | 836.50          | 20525              | 836.50          |
| 20526               | 836.60          | 20526              | 836.60          |
| ...                 | ...             | ...                | ...             |
| 20642               | 848.20          | 20634              | 847.40          |
| 20643               | 848.30          | 20635              | 847.50          |
| LTE Band 5 (5MHz)   |                 | LTE Band 5 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20425               | 826.50          | 20450              | 829.00          |
| 20426               | 826.60          | 20451              | 829.10          |
| ....                | ....            | ....               | ....            |
| 20524               | 836.40          | 20524              | 836.40          |
| 20525               | 836.50          | 20525              | 836.50          |
| 20526               | 836.60          | 20526              | 836.60          |
| ...                 | ...             | ...                | ...             |
| 20624               | 846.40          | 20599              | 839.90          |
| 20625               | 846.50          | 20600              | 844.00          |

| LTE Band 7 (5MHz)  |                 | LTE Band 7 (10MHz) |                 |
|--------------------|-----------------|--------------------|-----------------|
| Channel            | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20775              | 2502.50         | 20800              | 2505.00         |
| 20776              | 2502.60         | 20801              | 2502.10         |
| ....               | ....            | ....               | ....            |
| 21099              | 2534.90         | 21099              | 2534.90         |
| 21100              | 2535.00         | 21100              | 2535.00         |
| 21101              | 2535.20         | 21101              | 2535.20         |
| ...                | ...             | ...                | ...             |
| 21424              | 2567.40         | 21399              | 2564.90         |
| 21425              | 2567.50         | 21400              | 2565.00         |
| LTE Band 7 (15MHz) |                 | LTE Band 7 (20MHz) |                 |
| Channel            | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20825              | 2507.50         | 20850              | 2510.00         |
| 20826              | 2507.60         | 20851              | 2510.10         |
| ....               | ....            | ....               | ....            |
| 21099              | 2534.90         | 21099              | 2534.90         |
| 21100              | 2535.00         | 21100              | 2535.00         |
| 21101              | 2535.20         | 21101              | 2535.20         |
| ...                | ...             | ...                | ...             |
| 21374              | 2562.40         | 21349              | 2559.90         |
| 21375              | 2562.50         | 21350              | 2560.00         |



| LTE Band 12 (1.4MHz) |                 | LTE Band 12 (3MHz)  |                 |
|----------------------|-----------------|---------------------|-----------------|
| Channel              | Frequency (MHz) | Channel             | Frequency (MHz) |
| 23017                | 699.70          | 23025               | 700.50          |
| 23756                | 699.80          | 23026               | 700.60          |
| ....                 | ....            | ....                | ....            |
| 23094                | 707.40          | 23094               | 707.40          |
| 23095                | 707.50          | 23095               | 707.50          |
| 23096                | 707.60          | 23096               | 707.60          |
| ...                  | ...             | ...                 | ...             |
| 23172                | 715.20          | 23164               | 714.40          |
| 23173                | 715.30          | 23165               | 714.50          |
| LTE Band 12 (5MHz)   |                 | LTE Band 12 (10MHz) |                 |
| Channel              | Frequency (MHz) | Channel             | Frequency (MHz) |
| 23035                | 701.50          | 23060               | 704.00          |
| 23036                | 701.60          | 23061               | 704.10          |
| ....                 | ....            | ....                | ....            |
| 23094                | 707.40          | 23094               | 707.40          |
| 23095                | 707.50          | 23095               | 707.50          |
| 23096                | 707.60          | 23096               | 707.60          |
| ...                  | ...             | ...                 | ...             |
| 23154                | 713.40          | 23129               | 710.90          |
| 23155                | 713.50          | 23130               | 711.00          |

| LTE Band 13 (5MHz) |                 | LTE Band 13 (10MHz) |                 |
|--------------------|-----------------|---------------------|-----------------|
| Channel            | Frequency (MHz) | Channel             | Frequency (MHz) |
| 23205              | 779.50          | /                   | /               |
| 23206              | 779.60          | /                   | /               |
| ....               | ....            | /                   | /               |
| 23229              | 781.90          | /                   | /               |
| 23230              | 782.00          | 23230               | 782.00          |
| 23231              | 782.10          | /                   | /               |
| ...                | ...             | /                   | /               |
| 23255              | 784.50          | /                   | /               |
| 23256              | 784.60          | /                   | /               |

| LTE Band 17 (5MHz) |                 | LTE Band 17 (10MHz) |                 |
|--------------------|-----------------|---------------------|-----------------|
| Channel            | Frequency (MHz) | Channel             | Frequency (MHz) |
| 23755              | 706.50          | 23780               | 709.00          |
| 23756              | 706.60          | 23781               | 709.10          |
| ....               | ....            | ....                | ....            |
| 23789              | 709.90          | 23789               | 709.90          |
| 23790              | 710.00          | 23790               | 710.00          |
| 23791              | 710.10          | 23791               | 710.10          |
| ...                | ...             | ...                 | ...             |
| 23824              | 713.40          | 23799               | 710.90          |
| 23825              | 713.50          | 23800               | 711.00          |

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

| LTE Band 2 (1.4MHz) |       |                 | LTE Band 2 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18607 | 1850.70         | Lowest channel     | 18615 | 1851.50         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19193 | 1909.30         | Highest channel    | 19185 | 1908.50         |
| LTE Band 2 (5MHz)   |       |                 | LTE Band 2 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18625 | 1852.50         | Lowest channel     | 18650 | 1855.00         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19175 | 1907.50         | Highest channel    | 19150 | 1905.00         |
| LTE Band 2 (15MHz)  |       |                 | LTE Band 2 (20MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18675 | 1857.50         | Lowest channel     | 18700 | 1860.00         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19125 | 1902.50         | Highest channel    | 19100 | 1900.00         |

| LTE Band 4 (1.4MHz) |       |                 | LTE Band 4 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel:            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 19957 | 1710.70         | Lowest channel     | 19965 | 1711.50         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20393 | 1754.30         | Highest channel    | 20385 | 1753.50         |
| LTE Band 4 (5MHz)   |       |                 | LTE Band 4 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 19975 | 1712.50         | Lowest channel     | 20000 | 1715.00         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20375 | 1752.50         | Highest channel    | 20350 | 1750.00         |
| LTE Band 4 (15MHz)  |       |                 | LTE Band 4 (20MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20025 | 1717.50         | Lowest channel     | 20050 | 1720.00         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20325 | 1747.50         | Highest channel    | 20300 | 1745.00         |

| LTE Band 5 (1.4MHz) |       |                 | LTE Band 5 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel:            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20407 | 824.70          | Lowest channel     | 20415 | 825.50          |
| Middle channel      | 20525 | 836.50          | Middle channel     | 20525 | 836.50          |
| Highest channel     | 20643 | 848.30          | Highest channel    | 20635 | 847.50          |
| LTE Band 5 (5MHz)   |       |                 | LTE Band 5 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20425 | 826.50          | Lowest channel     | 20450 | 829.00          |
| Middle channel      | 20525 | 836.50          | Middle channel     | 20525 | 836.50          |
| Highest channel     | 20625 | 846.50          | Highest channel    | 20600 | 844.00          |

| LTE Band 7 (5MHz)  |       |                 | LTE Band 7 (10MHz) |       |                 |
|--------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel     | 20775 | 2502.50         | Lowest channel     | 20800 | 2505.00         |
| Middle channel     | 21100 | 2535.00         | Middle channel     | 21100 | 2535.00         |
| Highest channel    | 21425 | 2567.50         | Highest channel    | 21400 | 2565.00         |
| LTE Band 7 (15MHz) |       |                 | LTE Band 7 (20MHz) |       |                 |
| Channel            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel     | 20825 | 2507.50         | Lowest channel     | 20850 | 2510.00         |
| Middle channel     | 21100 | 2535.00         | Middle channel     | 21100 | 2535.00         |
| Highest channel    | 21375 | 2562.50         | Highest channel    | 21350 | 2560.00         |

| LTE Band 12(1.4MHz) |       |                 | LTE Band 12(3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 23017 | 699.70          | Lowest channel     | 23025 | 700.50          |
| Middle channel      | 23095 | 707.50          | Middle channel     | 23095 | 707.50          |
| Highest channel     | 23173 | 715.30          | Highest channel    | 23165 | 714.50          |
| LTE Band 12(5MHz)   |       |                 | LTE Band 12(10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 23035 | 701.50          | Lowest channel     | 23060 | 704.00          |
| Middle channel      | 23095 | 707.50          | Middle channel     | 23095 | 707.50          |
| Highest channel     | 23155 | 713.50          | Highest channel    | 23130 | 711.00          |

| LTE Band 13(5MHz) |       |                 | LTE Band 13(10MHz) |       |                 |
|-------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel           |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel    | 23205 | 779.5           | Lowest channel     | /     | /               |
| Middle channel    | 23230 | 782.0           | Middle channel     | 23230 | 782.00          |
| Highest channel   | 23255 | 784.5           | Highest channel    | /     | /               |

| LTE Band 17(5MHz) |       |                 | LTE Band 17(10MHz) |       |                 |
|-------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel           |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel    | 23755 | 706.50          | Lowest channel     | 23780 | 709.00          |
| Middle channel    | 23790 | 710.00          | Middle channel     | 23790 | 710.00          |
| Highest channel   | 23825 | 713.50          | Highest channel    | 23800 | 711.00          |

### 5.3 Test environment and mode, and test samples plans

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                           |                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                     | Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C                      |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                        | 20 % ~ 75 % RH                                                   |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                            | 1008 mbar                                                        |
| Voltage:                                                                                                                                                                                                                                                                                                                                                                         | Nominal: 3.8Vdc, Extreme: Low 3.5Vdc, High 4.35Vdc               |
| Test mode:                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |
| LTE QPSK mode                                                                                                                                                                                                                                                                                                                                                                    | Keep the EUT communication with simulated station in QPSK mode   |
| LTE 16-QAM mode                                                                                                                                                                                                                                                                                                                                                                  | Keep the EUT communication with simulated station in 16-QAM mode |
| Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. |                                                                  |

### 5.4 Description of Support Units

| Test Equipment    | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|------------|
| Simulated Station | Anritsu      | MT8820C   | 6201026545 |

### 5.5 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.16 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.20 dB (k=2)       |

### 5.6 Related Submittal(s) / Grant (s)

|                                                              |
|--------------------------------------------------------------|
| This is an original grant, no related submittals and grants. |
|--------------------------------------------------------------|

### 5.7 Additions to, deviations, or exclusions from the method

|    |
|----|
| No |
|----|

## 5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

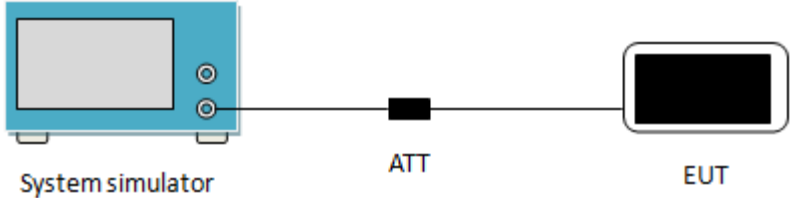
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.10 Test Instruments list

| Test Equipment               | Manufacturer    | Model No.     | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|------------------------------|-----------------|---------------|--------------------|----------------------|--------------------------|
| 3m SAC                       | SAEMC           | 9m*6m*6m      | 966                | 07-22-2017           | 07-21-2020               |
|                              |                 |               |                    | 07-22-2020           | 07-21-2023               |
| BiConiLog Antenna            | SCHWARZBECK     | VULB9163      | 497                | 03-18-2020           | 03-17-2021               |
| Biconical Antenna            | SCHWARZBECK     | VUBA9117      | 359                | 06-22-2017           | 06-21-2020               |
|                              |                 |               |                    | 06-22-2020           | 06-21-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 916                | 03-07-2020           | 03-06-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 1805               | 06-22-2017           | 06-21-2020               |
|                              |                 |               |                    | 06-22-2020           | 06-21-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-18-2019           | 11-17-2020               |
| EMI Test Software            | AUDIX           | E3            | Version: 6.110919b |                      |                          |
| Pre-amplifier                | HP              | 8447D         | 2944A09358         | 03-07-2020           | 03-06-2021               |
| Pre-amplifier                | CD              | PAP-1G18      | 11804              | 03-07-2020           | 03-06-2021               |
| Spectrum analyzer            | Rohde & Schwarz | FSP30         | 101454             | 03-05-2020           | 03-04-2021               |
| Spectrum analyzer            | Rohde & Schwarz | FSP40         | 100363             | 11-18-2019           | 11-17-2020               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-05-2020           | 03-04-2021               |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-18-2019           | 11-17-2020               |
| Signal Generator             | Rohde & Schwarz | SMX           | 835454/016         | 03-05-2020           | 03-04-2021               |
| Signal Generator             | R&S             | SMR20         | 1008100050         | 03-05-2020           | 03-04-2021               |
| RF Switch Unit               | MWRFTTEST       | MW200         | N/A                | N/A                  | N/A                      |
| Test Software                | MWRFTTEST       | MTS8200       | Version: 2.0.0.0   |                      |                          |
| Cable                        | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-07-2020           | 03-06-2021               |
| Cable                        | MICRO-COAX      | MFR64639      | K10742-5           | 03-07-2020           | 03-06-2021               |
| Cable                        | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-07-2020           | 03-06-2021               |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 09-25-2019           | 09-24-2020               |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 11-01-2019           | 11-31-2020               |
| Simulated Station            | Rohde & Schwarz | CMW500        | 140493             | 07-22-2019           | 07-21-2020               |
|                              |                 |               |                    | 07-22-2020           | 07-21-2021               |

## 6. Test results

### 6.1 Conducted Output Power, ERP and EIRP

|                   |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2), part 27.50(b)(10)                                                                                                                                                                                                                                                                |
| Limit:            | LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 7: 2W, LTE Band 12: 3W, LTE Band 17: 3W                                                                                                                                                                                                                                                                            |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left is a blue rectangular box labeled 'System simulator'. A line connects it to a small black square labeled 'ATT' (attenuator). Another line connects the 'ATT' to a black rectangular box labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.                                                                                                                                                                                                          |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                            |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                      |

## Measurement Data:

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|
|                                                              |                 |                     |         |           | 18607               | 18900     | 19193     |
|                                                              |                 |                     |         |           | 1850.7MHz           | 1880.0MHz | 1909.3MHz |
| 2                                                            | 1.4             | QPSK                | 1       | 0         | 22.54               | 22.52     | 22.21     |
|                                                              |                 |                     | 1       | 2         | 22.57               | 22.61     | 22.30     |
|                                                              |                 |                     | 1       | 5         | 22.55               | 22.54     | 22.22     |
|                                                              |                 |                     | 3       | 0         | 21.71               | 21.61     | 21.34     |
|                                                              |                 |                     | 3       | 1         | 21.69               | 21.71     | 21.27     |
|                                                              |                 |                     | 3       | 2         | 21.70               | 21.65     | 21.30     |
|                                                              |                 |                     | 6       | 0         | 21.62               | 21.55     | 21.35     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.56                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.17               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.15               | 21.91     | 21.55     |
|                                                              |                 |                     | 1       | 2         | 22.13               | 21.76     | 21.37     |
|                                                              |                 |                     | 1       | 5         | 22.12               | 21.81     | 21.35     |
|                                                              |                 |                     | 3       | 0         | 20.78               | 20.87     | 20.45     |
|                                                              |                 |                     | 3       | 1         | 20.75               | 20.83     | 20.55     |
|                                                              |                 |                     | 3       | 2         | 20.87               | 20.68     | 20.41     |
|                                                              |                 |                     | 6       | 0         | 20.67               | 20.82     | 20.37     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.56                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.71               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
|                                                              |                 |                     |         |           |                     |           |           |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|                                                              |                 |                     |         |           | 18615               | 18900     | 19185     |
|                                                              |                 |                     |         |           | 1851.5MHz           | 1880.0MHz | 1908.5MHz |
| 2                                                            | 3               | QPSK                | 1       | 0         | 22.63               | 22.58     | 22.30     |
|                                                              |                 |                     | 1       | 7         | 22.55               | 22.56     | 22.17     |
|                                                              |                 |                     | 1       | 14        | 22.64               | 22.56     | 22.18     |
|                                                              |                 |                     | 8       | 0         | 21.60               | 21.75     | 21.50     |
|                                                              |                 |                     | 8       | 4         | 21.69               | 21.74     | 21.27     |
|                                                              |                 |                     | 8       | 7         | 21.71               | 21.59     | 21.23     |
|                                                              |                 |                     | 15      | 0         | 21.62               | 21.55     | 21.35     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.56                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.20               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.05               | 21.92     | 21.81     |
|                                                              |                 |                     | 1       | 7         | 22.04               | 21.86     | 21.61     |
|                                                              |                 |                     | 1       | 14        | 21.75               | 21.53     | 21.72     |
|                                                              |                 |                     | 8       | 0         | 20.73               | 20.70     | 20.42     |
|                                                              |                 |                     | 8       | 4         | 20.66               | 20.66     | 20.51     |
|                                                              |                 |                     | 8       | 7         | 20.76               | 20.56     | 20.33     |
|                                                              |                 |                     | 15      | 0         | 20.84               | 20.77     | 20.58     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.56                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.61               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18625               | 18900     | 19175     |  |
|                                                              |                 |                     |         |           | 1852.5MHz           | 1880.0MHz | 1907.5MHz |  |
| 2                                                            | 5               | QPSK                | 1       | 0         | 22.58               | 22.49     | 22.37     |  |
|                                                              |                 |                     | 1       | 12        | 22.65               | 22.45     | 22.26     |  |
|                                                              |                 |                     | 1       | 24        | 22.56               | 22.60     | 22.19     |  |
|                                                              |                 |                     | 12      | 0         | 21.69               | 21.65     | 21.42     |  |
|                                                              |                 |                     | 12      | 6         | 21.68               | 21.66     | 21.46     |  |
|                                                              |                 |                     | 12      | 11        | 21.64               | 21.55     | 21.35     |  |
|                                                              |                 |                     | 25      | 0         | 21.76               | 21.60     | 21.41     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.21     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.82               | 22.04     | 21.91     |  |
|                                                              |                 |                     | 1       | 12        | 21.83               | 22.05     | 21.48     |  |
|                                                              |                 |                     | 1       | 24        | 22.07               | 21.77     | 21.41     |  |
|                                                              |                 |                     | 12      | 0         | 20.74               | 20.63     | 20.50     |  |
|                                                              |                 |                     | 12      | 6         | 20.71               | 20.66     | 20.37     |  |
|                                                              |                 |                     | 12      | 11        | 20.66               | 20.67     | 20.31     |  |
|                                                              |                 |                     | 25      | 0         | 20.69               | 20.69     | 20.39     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | 0.56      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 22.63     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18650               | 18900     | 19150     |  |
|                                                              |                 |                     |         |           | 1855.0MHz           | 1880.0MHz | 1905.0MHz |  |
| 2                                                            | 10              | QPSK                | 1       | 0         | 22.61               | 22.56     | 22.54     |  |
|                                                              |                 |                     | 1       | 24        | 22.54               | 22.53     | 22.44     |  |
|                                                              |                 |                     | 1       | 49        | 22.55               | 22.48     | 22.24     |  |
|                                                              |                 |                     | 25      | 0         | 21.74               | 21.55     | 21.56     |  |
|                                                              |                 |                     | 25      | 12        | 21.70               | 21.56     | 21.57     |  |
|                                                              |                 |                     | 25      | 24        | 21.60               | 21.54     | 21.32     |  |
|                                                              |                 |                     | 50      | 0         | 21.66               | 21.56     | 21.56     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.17     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.75               | 21.72     | 21.93     |  |
|                                                              |                 |                     | 1       | 24        | 21.85               | 21.73     | 21.89     |  |
|                                                              |                 |                     | 1       | 49        | 21.72               | 21.46     | 21.35     |  |
|                                                              |                 |                     | 25      | 0         | 20.72               | 20.74     | 20.72     |  |
|                                                              |                 |                     | 25      | 12        | 20.77               | 20.78     | 20.53     |  |
|                                                              |                 |                     | 25      | 24        | 20.78               | 20.80     | 20.37     |  |
|                                                              |                 |                     | 50      | 0         | 20.80               | 20.77     | 20.54     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | 0.56      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 22.49     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |



| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18675               | 18900     | 19125     |  |
|                                                              |                 |                     |         |           | 1857.5MHz           | 1880.0MHz | 1902.5MHz |  |
| 2                                                            | 15              | QPSK                | 1       | 0         | 22.51               | 22.49     | 22.57     |  |
|                                                              |                 |                     | 1       | 37        | 22.52               | 22.50     | 22.53     |  |
|                                                              |                 |                     | 1       | 74        | 22.53               | 22.42     | 22.23     |  |
|                                                              |                 |                     | 36      | 0         | 21.64               | 21.57     | 21.78     |  |
|                                                              |                 |                     | 36      | 16        | 21.50               | 21.65     | 21.62     |  |
|                                                              |                 |                     | 36      | 35        | 21.49               | 21.66     | 21.34     |  |
|                                                              |                 |                     | 75      | 0         | 21.55               | 21.75     | 21.54     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.13     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.09               | 22.01     | 22.11     |  |
|                                                              |                 |                     | 1       | 37        | 22.28               | 22.04     | 22.03     |  |
|                                                              |                 |                     | 1       | 74        | 22.27               | 21.93     | 21.99     |  |
|                                                              |                 |                     | 36      | 0         | 20.68               | 20.80     | 20.81     |  |
|                                                              |                 |                     | 36      | 16        | 20.60               | 20.77     | 20.75     |  |
|                                                              |                 |                     | 36      | 35        | 20.72               | 20.84     | 20.93     |  |
|                                                              |                 |                     | 75      | 0         | 20.71               | 20.79     | 20.69     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.84     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18700               | 18900     | 19100     |  |
|                                                              |                 |                     |         |           | 1860.0MHz           | 1880.0MHz | 1900.0MHz |  |
| 2                                                            | 20              | QPSK                | 1       | 0         | 22.65               | 22.68     | 22.58     |  |
|                                                              |                 |                     | 1       | 49        | 22.52               | 22.63     | 22.66     |  |
|                                                              |                 |                     | 1       | 99        | 22.48               | 22.62     | 22.15     |  |
|                                                              |                 |                     | 50      | 0         | 21.70               | 21.68     | 21.76     |  |
|                                                              |                 |                     | 50      | 24        | 21.69               | 21.64     | 21.81     |  |
|                                                              |                 |                     | 50      | 49        | 21.67               | 21.69     | 21.54     |  |
|                                                              |                 |                     | 100     | 0         | 21.62               | 21.68     | 21.74     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.24     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.24               | 21.90     | 22.13     |  |
|                                                              |                 |                     | 1       | 49        | 22.35               | 21.80     | 22.04     |  |
|                                                              |                 |                     | 1       | 99        | 22.40               | 21.52     | 22.74     |  |
|                                                              |                 |                     | 50      | 0         | 20.82               | 20.85     | 20.80     |  |
|                                                              |                 |                     | 50      | 24        | 20.80               | 20.78     | 20.78     |  |
|                                                              |                 |                     | 50      | 49        | 20.82               | 20.68     | 20.65     |  |
|                                                              |                 |                     | 100     | 0         | 20.72               | 20.72     | 20.83     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.56      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.30     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|
|                                                              |                 |                     |         |           | 19957               | 20175     | 20393     |
|                                                              |                 |                     |         |           | 1710.7MHz           | 1732.5MHz | 1754.3MHz |
| 4                                                            | 1.4             | QPSK                | 1       | 0         | 22.92               | 22.90     | 22.88     |
|                                                              |                 |                     | 1       | 2         | 22.93               | 22.85     | 23.00     |
|                                                              |                 |                     | 1       | 5         | 22.89               | 22.94     | 23.04     |
|                                                              |                 |                     | 3       | 0         | 22.00               | 22.06     | 22.15     |
|                                                              |                 |                     | 3       | 1         | 22.06               | 22.11     | 22.10     |
|                                                              |                 |                     | 3       | 2         | 22.03               | 22.01     | 22.17     |
|                                                              |                 |                     | 6       | 0         | 22.04               | 22.07     | 22.03     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.92                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.96               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.15               | 22.40     | 22.33     |
|                                                              |                 |                     | 1       | 2         | 22.18               | 22.36     | 22.49     |
|                                                              |                 |                     | 1       | 5         | 22.13               | 22.38     | 22.31     |
|                                                              |                 |                     | 3       | 0         | 21.01               | 21.06     | 21.31     |
|                                                              |                 |                     | 3       | 1         | 21.07               | 21.16     | 21.24     |
|                                                              |                 |                     | 3       | 2         | 21.12               | 21.09     | 21.22     |
|                                                              |                 |                     | 6       | 0         | 21.05               | 21.15     | 20.98     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.92                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.41               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 |                     |         |           |                     |           |           |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|                                                              |                 |                     |         |           | 19965               | 20175     | 20385     |
|                                                              |                 |                     |         |           | 1711.5MHz           | 1732.5MHz | 1753.5MHz |
| 4                                                            | 3               | QPSK                | 1       | 0         | 22.87               | 22.94     | 22.82     |
|                                                              |                 |                     | 1       | 7         | 22.85               | 22.91     | 22.84     |
|                                                              |                 |                     | 1       | 14        | 22.88               | 22.87     | 22.83     |
|                                                              |                 |                     | 8       | 0         | 22.07               | 22.05     | 22.04     |
|                                                              |                 |                     | 8       | 4         | 22.01               | 22.00     | 22.05     |
|                                                              |                 |                     | 8       | 7         | 22.00               | 22.01     | 22.00     |
|                                                              |                 |                     | 15      | 0         | 21.95               | 22.04     | 21.98     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.92                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.86               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.28               | 22.16     | 22.30     |
|                                                              |                 |                     | 1       | 7         | 22.04               | 22.14     | 22.63     |
|                                                              |                 |                     | 1       | 14        | 22.11               | 22.27     | 22.24     |
|                                                              |                 |                     | 8       | 0         | 21.15               | 21.17     | 21.11     |
|                                                              |                 |                     | 8       | 4         | 21.08               | 21.11     | 21.12     |
|                                                              |                 |                     | 8       | 7         | 21.11               | 21.02     | 21.04     |
|                                                              |                 |                     | 15      | 0         | 21.28               | 21.12     | 21.25     |
|                                                              |                 | Antenna Gain (dBi): |         |           | 0.92                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 23.55               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 19975               | 20175     | 20375     |  |
|                                                              |                 |                     |         |           | 1712.5MHz           | 1732.5MHz | 1752.5MHz |  |
| 4                                                            | 5               | QPSK                | 1       | 0         | 22.90               | 22.94     | 22.89     |  |
|                                                              |                 |                     | 1       | 12        | 22.97               | 22.95     | 22.91     |  |
|                                                              |                 |                     | 1       | 24        | 22.93               | 22.89     | 22.95     |  |
|                                                              |                 |                     | 12      | 0         | 22.10               | 22.05     | 22.02     |  |
|                                                              |                 |                     | 12      | 6         | 22.00               | 22.19     | 22.08     |  |
|                                                              |                 |                     | 12      | 11        | 22.11               | 22.14     | 22.10     |  |
|                                                              |                 |                     | 25      | 0         | 22.09               | 21.95     | 21.94     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.89     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.13               | 22.40     | 22.43     |  |
|                                                              |                 |                     | 1       | 12        | 22.26               | 22.43     | 22.22     |  |
|                                                              |                 |                     | 1       | 24        | 22.07               | 22.02     | 22.45     |  |
|                                                              |                 |                     | 12      | 0         | 21.05               | 21.06     | 21.08     |  |
|                                                              |                 |                     | 12      | 6         | 21.07               | 21.04     | 21.02     |  |
|                                                              |                 |                     | 12      | 11        | 21.01               | 21.02     | 21.05     |  |
|                                                              |                 |                     | 25      | 0         | 21.08               | 21.05     | 21.10     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.37     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20000               | 20175     | 20350     |  |
|                                                              |                 |                     |         |           | 1715.0MHz           | 1732.5MHz | 1750.0MHz |  |
| 4                                                            | 10              | QPSK                | 1       | 0         | 22.96               | 22.93     | 22.98     |  |
|                                                              |                 |                     | 1       | 24        | 22.92               | 22.92     | 22.99     |  |
|                                                              |                 |                     | 1       | 49        | 22.85               | 22.89     | 22.93     |  |
|                                                              |                 |                     | 25      | 0         | 22.01               | 22.04     | 22.10     |  |
|                                                              |                 |                     | 25      | 12        | 21.88               | 21.93     | 22.08     |  |
|                                                              |                 |                     | 25      | 24        | 21.99               | 21.95     | 22.03     |  |
|                                                              |                 |                     | 50      | 0         | 22.01               | 21.92     | 22.07     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.91     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.08               | 22.09     | 22.21     |  |
|                                                              |                 |                     | 1       | 24        | 22.09               | 22.43     | 22.02     |  |
|                                                              |                 |                     | 1       | 49        | 22.07               | 22.31     | 22.08     |  |
|                                                              |                 |                     | 25      | 0         | 21.07               | 21.10     | 21.35     |  |
|                                                              |                 |                     | 25      | 12        | 21.01               | 21.07     | 21.15     |  |
|                                                              |                 |                     | 25      | 24        | 21.22               | 21.01     | 21.34     |  |
|                                                              |                 |                     | 50      | 0         | 21.03               | 21.04     | 21.25     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.35     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20025               | 20175     | 20325     |  |
|                                                              |                 |                     |         |           | 1717.5MHz           | 1732.5MHz | 1747.5MHz |  |
| 4                                                            | 15              | QPSK                | 1       | 0         | 22.96               | 22.98     | 22.97     |  |
|                                                              |                 |                     | 1       | 37        | 22.85               | 22.94     | 22.94     |  |
|                                                              |                 |                     | 1       | 74        | 22.84               | 22.85     | 22.93     |  |
|                                                              |                 |                     | 36      | 0         | 22.13               | 22.06     | 22.03     |  |
|                                                              |                 |                     | 36      | 16        | 22.05               | 22.00     | 22.05     |  |
|                                                              |                 |                     | 36      | 35        | 22.02               | 21.91     | 22.01     |  |
|                                                              |                 |                     | 75      | 0         | 22.03               | 21.96     | 22.02     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.90     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.70               | 22.33     | 22.10     |  |
|                                                              |                 |                     | 1       | 37        | 22.38               | 22.60     | 22.20     |  |
|                                                              |                 |                     | 1       | 74        | 22.13               | 22.13     | 22.21     |  |
|                                                              |                 |                     | 36      | 0         | 21.12               | 21.13     | 21.26     |  |
|                                                              |                 |                     | 36      | 16        | 21.09               | 21.00     | 21.41     |  |
|                                                              |                 |                     | 36      | 35        | 21.07               | 21.01     | 21.30     |  |
|                                                              |                 |                     | 75      | 0         | 21.01               | 20.98     | 21.12     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | 0.92      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 23.62     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20050               | 20175     | 20300     |  |
|                                                              |                 |                     |         |           | 1720.0MHz           | 1732.5MHz | 1745.0MHz |  |
| 4                                                            | 20              | QPSK                | 1       | 0         | 23.03               | 22.97     | 23.03     |  |
|                                                              |                 |                     | 1       | 49        | 22.95               | 23.00     | 22.89     |  |
|                                                              |                 |                     | 1       | 99        | 22.87               | 22.79     | 22.82     |  |
|                                                              |                 |                     | 50      | 0         | 22.13               | 22.00     | 22.17     |  |
|                                                              |                 |                     | 50      | 24        | 22.08               | 21.95     | 22.05     |  |
|                                                              |                 |                     | 50      | 49        | 22.00               | 21.96     | 22.06     |  |
|                                                              |                 |                     | 100     | 0         | 22.04               | 22.01     | 22.04     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | 0.92      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.95     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.53               | 22.73     | 22.60     |  |
|                                                              |                 |                     | 1       | 49        | 22.85               | 22.66     | 22.38     |  |
|                                                              |                 |                     | 1       | 99        | 22.57               | 22.58     | 22.43     |  |
|                                                              |                 |                     | 50      | 0         | 21.30               | 21.22     | 21.17     |  |
|                                                              |                 |                     | 50      | 24        | 21.12               | 21.12     | 21.10     |  |
|                                                              |                 |                     | 50      | 49        | 21.16               | 21.00     | 21.11     |  |
|                                                              |                 |                     | 100     | 0         | 21.01               | 21.07     | 21.14     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | 0.92      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 23.77     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |           |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|-----------|--|
|                                                                                                      |                 |                    |         |           | 20407               | 20525    | 20643     |  |
|                                                                                                      |                 |                    |         |           | 824.7MHz            | 836.5MHz | 848.3MHz  |  |
| 5                                                                                                    | 1.4             | QPSK               | 1       | 0         | 22.77               | 22.78    | 22.75     |  |
|                                                                                                      |                 |                    | 1       | 2         | 22.80               | 22.84    | 22.83     |  |
|                                                                                                      |                 |                    | 1       | 5         | 22.85               | 22.89    | 22.87     |  |
|                                                                                                      |                 |                    | 3       | 0         | 21.95               | 22.05    | 21.89     |  |
|                                                                                                      |                 |                    | 3       | 1         | 22.01               | 22.11    | 22.08     |  |
|                                                                                                      |                 |                    | 3       | 2         | 21.96               | 22.02    | 22.01     |  |
|                                                                                                      |                 |                    | 6       | 0         | 21.84               | 21.97    | 21.88     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.66    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.03               | 21.92    | 21.87     |  |
|                                                                                                      |                 |                    | 1       | 2         | 22.02               | 21.63    | 22.05     |  |
|                                                                                                      |                 |                    | 1       | 5         | 21.94               | 21.75    | 22.02     |  |
|                                                                                                      |                 |                    | 3       | 0         | 21.12               | 21.15    | 21.11     |  |
|                                                                                                      |                 |                    | 3       | 1         | 21.04               | 21.28    | 21.24     |  |
|                                                                                                      |                 |                    | 3       | 2         | 21.05               | 21.02    | 21.11     |  |
|                                                                                                      |                 |                    | 6       | 0         | 21.01               | 21.12    | 21.06     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 18.82    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
|                                                                                                      |                 |                    |         |           |                     |          |           |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |           |  |
|                                                                                                      |                 |                    |         |           | 20415               | 20525    | 20635     |  |
|                                                                                                      |                 |                    |         |           | 825.5MHz            | 836.5MHz | 847.50MHz |  |
| 5                                                                                                    | 3               | QPSK               | 1       | 0         | 22.84               | 22.72    | 22.89     |  |
|                                                                                                      |                 |                    | 1       | 7         | 22.79               | 22.78    | 22.90     |  |
|                                                                                                      |                 |                    | 1       | 14        | 22.84               | 22.79    | 22.87     |  |
|                                                                                                      |                 |                    | 8       | 0         | 21.82               | 22.00    | 21.92     |  |
|                                                                                                      |                 |                    | 8       | 4         | 21.96               | 21.99    | 21.97     |  |
|                                                                                                      |                 |                    | 8       | 7         | 22.11               | 21.91    | 21.94     |  |
|                                                                                                      |                 |                    | 15      | 0         | 21.90               | 21.95    | 21.92     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.67    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.03               | 22.15    | 22.01     |  |
|                                                                                                      |                 |                    | 1       | 7         | 22.02               | 22.10    | 21.96     |  |
|                                                                                                      |                 |                    | 1       | 14        | 21.81               | 22.04    | 21.77     |  |
|                                                                                                      |                 |                    | 8       | 0         | 21.03               | 21.08    | 21.03     |  |
|                                                                                                      |                 |                    | 8       | 4         | 21.00               | 21.13    | 21.05     |  |
|                                                                                                      |                 |                    | 8       | 7         | 21.03               | 21.14    | 21.19     |  |
|                                                                                                      |                 |                    | 15      | 0         | 21.09               | 21.20    | 21.20     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 18.92    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |           |  |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|--|
|                                                                                                      |                 |                    |         |           | 20425               | 20525    | 20625    |  |
|                                                                                                      |                 |                    |         |           | 826.5MHz            | 836.5MHz | 846.5MHz |  |
| 5                                                                                                    | 5               | QPSK               | 1       | 0         | 22.93               | 23.05    | 22.94    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.99               | 23.01    | 22.88    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.01               | 22.96    | 22.91    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.81               | 21.94    | 22.12    |  |
|                                                                                                      |                 |                    | 12      | 6         | 22.10               | 22.04    | 22.01    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.89               | 21.84    | 21.98    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.96               | 21.92    | 21.97    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.82    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.13               | 22.44    | 22.46    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.23               | 22.01    | 22.39    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.27               | 22.31    | 22.15    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.17               | 21.02    | 21.36    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.24               | 21.24    | 21.00    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.23               | 21.43    | 21.10    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.25               | 21.28    | 21.03    |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.08     |                     |          |          |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 19.23     |                     |          |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 38.45     |                     |          |          |  |
|                                                                                                      |                 |                    |         |           |                     |          |          |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|                                                                                                      |                 |                    |         |           | 20450               | 20525    | 20600    |  |
|                                                                                                      |                 |                    |         |           | 829.0MHz            | 836.5MHz | 844.0MHz |  |
| 5                                                                                                    | 10              | QPSK               | 1       | 0         | 22.95               | 22.90    | 22.93    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.01               | 22.92    | 23.04    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.89               | 22.96    | 22.94    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.20               | 21.95    | 22.09    |  |
|                                                                                                      |                 |                    | 25      | 12        | 22.05               | 21.91    | 22.10    |  |
|                                                                                                      |                 |                    | 25      | 24        | 22.02               | 21.82    | 21.88    |  |
|                                                                                                      |                 |                    | 50      | 0         | 22.18               | 21.89    | 21.96    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.08    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.81    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.11               | 22.24    | 22.13    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.18               | 22.33    | 22.12    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.03               | 22.09    | 22.09    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.23               | 21.13    | 21.30    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.28               | 21.22    | 21.44    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.27               | 21.25    | 21.21    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.02               | 21.27    | 21.25    |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.08     |                     |          |          |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 19.10     |                     |          |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 38.45     |                     |          |          |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |          |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20775               | 21100     | 21425     |  |
|                                                              |                 |                     |         |           | 2502.5MHz           | 2535.0MHz | 2567.5MHz |  |
| 7                                                            | 5               | QPSK                | 1       | 0         | 21.61               | 21.49     | 21.58     |  |
|                                                              |                 |                     | 1       | 12        | 21.55               | 21.53     | 21.59     |  |
|                                                              |                 |                     | 1       | 24        | 21.59               | 21.45     | 21.66     |  |
|                                                              |                 |                     | 12      | 0         | 20.62               | 20.58     | 20.84     |  |
|                                                              |                 |                     | 12      | 6         | 20.84               | 20.70     | 20.91     |  |
|                                                              |                 |                     | 12      | 11        | 20.75               | 20.67     | 20.99     |  |
|                                                              |                 |                     | 25      | 0         | 20.71               | 20.57     | 20.83     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.10     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.56     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.12               | 20.92     | 21.06     |  |
|                                                              |                 |                     | 1       | 12        | 21.09               | 20.97     | 21.08     |  |
|                                                              |                 |                     | 1       | 24        | 21.08               | 20.90     | 21.11     |  |
|                                                              |                 |                     | 12      | 0         | 19.59               | 19.68     | 20.11     |  |
|                                                              |                 |                     | 12      | 6         | 19.73               | 19.93     | 20.18     |  |
|                                                              |                 |                     | 12      | 11        | 19.61               | 19.91     | 20.13     |  |
|                                                              |                 |                     | 25      | 0         | 19.82               | 19.92     | 20.10     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.10     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 20.02     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20800               | 21100     | 21400     |  |
|                                                              |                 |                     |         |           | 2505.0MHz           | 2535.0MHz | 2565.0MHz |  |
| 7                                                            | 10              | QPSK                | 1       | 0         | 21.70               | 21.42     | 21.53     |  |
|                                                              |                 |                     | 1       | 24        | 21.52               | 21.48     | 21.63     |  |
|                                                              |                 |                     | 1       | 49        | 21.40               | 21.62     | 21.75     |  |
|                                                              |                 |                     | 25      | 0         | 20.65               | 20.71     | 20.74     |  |
|                                                              |                 |                     | 25      | 12        | 20.68               | 20.70     | 20.81     |  |
|                                                              |                 |                     | 25      | 24        | 20.71               | 20.78     | 20.87     |  |
|                                                              |                 |                     | 50      | 0         | 20.64               | 20.73     | 20.80     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.10     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.65     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.04               | 20.85     | 21.06     |  |
|                                                              |                 |                     | 1       | 24        | 20.90               | 20.82     | 21.05     |  |
|                                                              |                 |                     | 1       | 49        | 21.15               | 21.03     | 21.17     |  |
|                                                              |                 |                     | 25      | 0         | 20.03               | 20.05     | 20.22     |  |
|                                                              |                 |                     | 25      | 12        | 20.08               | 20.01     | 20.06     |  |
|                                                              |                 |                     | 25      | 24        | 20.09               | 20.07     | 20.02     |  |
|                                                              |                 |                     | 50      | 0         | 19.94               | 19.97     | 20.01     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.10     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 20.07     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20825               | 21100     | 21375     |  |
|                                                              |                 |                     |         |           | 2507.5MHz           | 2535.0MHz | 2562.5MHz |  |
| 7                                                            | 15              | QPSK                | 1       | 0         | 21.63               | 21.57     | 21.70     |  |
|                                                              |                 |                     | 1       | 37        | 21.61               | 21.52     | 21.65     |  |
|                                                              |                 |                     | 1       | 74        | 21.57               | 21.65     | 21.88     |  |
|                                                              |                 |                     | 36      | 0         | 20.72               | 20.66     | 20.82     |  |
|                                                              |                 |                     | 36      | 16        | 20.71               | 20.71     | 20.89     |  |
|                                                              |                 |                     | 36      | 35        | 20.77               | 20.72     | 20.97     |  |
|                                                              |                 |                     | 75      | 0         | 20.66               | 20.85     | 20.91     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.10     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.78     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.01               | 21.04     | 21.16     |  |
|                                                              |                 |                     | 1       | 37        | 21.02               | 21.07     | 21.01     |  |
|                                                              |                 |                     | 1       | 74        | 21.04               | 21.06     | 21.06     |  |
|                                                              |                 |                     | 36      | 0         | 20.05               | 19.95     | 20.10     |  |
|                                                              |                 |                     | 36      | 16        | 20.09               | 19.96     | 20.09     |  |
|                                                              |                 |                     | 36      | 35        | 20.07               | 20.01     | 20.21     |  |
|                                                              |                 |                     | 75      | 0         | 20.00               | 19.93     | 20.06     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.10     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 20.06     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20850               | 21100     | 21350     |  |
|                                                              |                 |                     |         |           | 2510.0MHz           | 2535.0MHz | 2560.0MHz |  |
| 7                                                            | 20              | QPSK                | 1       | 0         | 21.72               | 21.47     | 21.80     |  |
|                                                              |                 |                     | 1       | 49        | 21.77               | 21.54     | 21.77     |  |
|                                                              |                 |                     | 1       | 99        | 21.67               | 21.65     | 21.88     |  |
|                                                              |                 |                     | 50      | 0         | 20.76               | 20.71     | 20.89     |  |
|                                                              |                 |                     | 50      | 24        | 20.70               | 20.55     | 20.98     |  |
|                                                              |                 |                     | 50      | 49        | 20.88               | 20.75     | 21.03     |  |
|                                                              |                 |                     | 100     | 0         | 20.79               | 20.62     | 20.89     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.10     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.78     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.03               | 21.22     | 21.23     |  |
|                                                              |                 |                     | 1       | 49        | 21.01               | 21.11     | 21.21     |  |
|                                                              |                 |                     | 1       | 99        | 21.03               | 21.21     | 21.24     |  |
|                                                              |                 |                     | 50      | 0         | 20.03               | 19.82     | 20.09     |  |
|                                                              |                 |                     | 50      | 24        | 20.00               | 19.87     | 20.00     |  |
|                                                              |                 |                     | 50      | 49        | 20.02               | 19.91     | 20.01     |  |
|                                                              |                 |                     | 100     | 0         | 19.90               | 19.93     | 20.04     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.10     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 20.14     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |



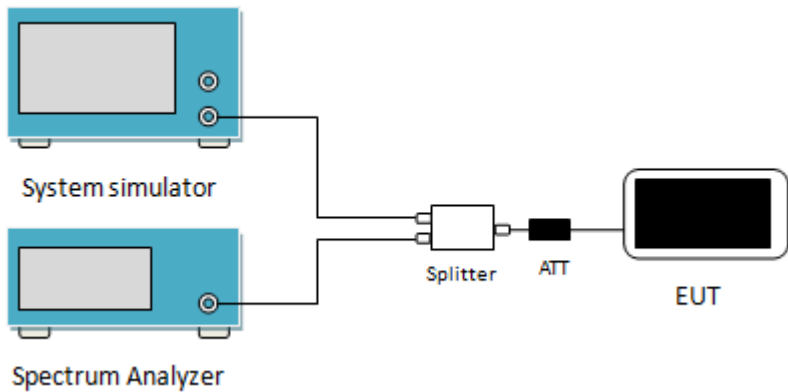
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|
|                                                                                                      |                 |                    |         |           | 23017               | 23095    | 23173    |
|                                                                                                      |                 |                    |         |           | 699.7MHz            | 707.5MHz | 715.3MHz |
| 12                                                                                                   | 1.4             | QPSK               | 1       | 0         | 22.60               | 22.48    | 22.80    |
|                                                                                                      |                 |                    | 1       | 2         | 22.74               | 22.52    | 22.88    |
|                                                                                                      |                 |                    | 1       | 5         | 22.66               | 22.51    | 22.73    |
|                                                                                                      |                 |                    | 3       | 0         | 21.79               | 21.74    | 21.76    |
|                                                                                                      |                 |                    | 3       | 1         | 21.60               | 21.79    | 22.00    |
|                                                                                                      |                 |                    | 3       | 2         | 21.63               | 21.69    | 21.97    |
|                                                                                                      |                 |                    | 6       | 0         | 21.91               | 21.82    | 21.93    |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.43               |          |          |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 19.30               |          |          |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 34.77               |          |          |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.72               | 22.14    | 21.83    |
|                                                                                                      |                 |                    | 1       | 2         | 22.25               | 22.08    | 22.05    |
|                                                                                                      |                 |                    | 1       | 5         | 22.19               | 22.02    | 21.92    |
|                                                                                                      |                 |                    | 3       | 0         | 20.98               | 21.04    | 20.89    |
|                                                                                                      |                 |                    | 3       | 1         | 20.87               | 20.97    | 21.00    |
|                                                                                                      |                 |                    | 3       | 2         | 21.00               | 21.04    | 21.14    |
|                                                                                                      |                 |                    | 6       | 0         | 21.01               | 20.65    | 20.84    |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.43               |          |          |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 18.67               |          |          |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 34.77               |          |          |
|                                                                                                      |                 |                    |         |           |                     |          |          |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |
|                                                                                                      |                 |                    |         |           | 23025               | 23095    | 23165    |
|                                                                                                      |                 |                    |         |           | 700.5MHz            | 707.5MHz | 714.5MHz |
| 12                                                                                                   | 3               | QPSK               | 1       | 0         | 22.60               | 22.62    | 22.73    |
|                                                                                                      |                 |                    | 1       | 7         | 22.75               | 22.70    | 22.83    |
|                                                                                                      |                 |                    | 1       | 14        | 22.68               | 22.60    | 22.81    |
|                                                                                                      |                 |                    | 8       | 0         | 21.80               | 21.80    | 21.86    |
|                                                                                                      |                 |                    | 8       | 4         | 21.79               | 21.67    | 21.78    |
|                                                                                                      |                 |                    | 8       | 7         | 21.73               | 21.83    | 21.77    |
|                                                                                                      |                 |                    | 15      | 0         | 21.81               | 21.79    | 21.93    |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.43               |          |          |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 19.25               |          |          |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 34.77               |          |          |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.17               | 21.96    | 22.13    |
|                                                                                                      |                 |                    | 1       | 7         | 22.19               | 22.02    | 22.00    |
|                                                                                                      |                 |                    | 1       | 14        | 22.05               | 21.66    | 22.09    |
|                                                                                                      |                 |                    | 8       | 0         | 20.71               | 21.10    | 20.65    |
|                                                                                                      |                 |                    | 8       | 4         | 20.88               | 20.85    | 20.77    |
|                                                                                                      |                 |                    | 8       | 7         | 20.85               | 20.93    | 20.82    |
|                                                                                                      |                 |                    | 15      | 0         | 21.12               | 20.70    | 20.86    |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.43               |          |          |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 18.61               |          |          |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 34.77               |          |          |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |          |

| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|--------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|--|
|                                                              |                 |                    |         |           | 23035               | 23095    | 23155    |  |
|                                                              |                 |                    |         |           | 701.5MHz            | 707.5MHz | 713.5MHz |  |
| 12                                                           | 5               | QPSK               | 1       | 0         | 22.72               | 22.51    | 22.79    |  |
|                                                              |                 |                    | 1       | 12        | 22.81               | 22.56    | 22.78    |  |
|                                                              |                 |                    | 1       | 24        | 22.72               | 22.69    | 22.94    |  |
|                                                              |                 |                    | 12      | 0         | 21.93               | 21.86    | 21.75    |  |
|                                                              |                 |                    | 12      | 6         | 21.83               | 21.72    | 21.93    |  |
|                                                              |                 |                    | 12      | 11        | 21.90               | 21.81    | 21.87    |  |
|                                                              |                 |                    | 25      | 0         | 21.84               | 21.84    | 21.85    |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.43    |          |  |
|                                                              |                 | Max. ERP (dBm):    |         |           |                     | 19.36    |          |  |
|                                                              |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                              |                 | 16QAM              | 1       | 0         | 22.26               | 22.04    | 22.14    |  |
|                                                              |                 |                    | 1       | 12        | 22.29               | 22.00    | 22.01    |  |
|                                                              |                 |                    | 1       | 24        | 22.24               | 21.86    | 22.11    |  |
|                                                              |                 |                    | 12      | 0         | 21.00               | 21.04    | 21.08    |  |
|                                                              |                 |                    | 12      | 6         | 21.08               | 20.89    | 21.01    |  |
|                                                              |                 |                    | 12      | 11        | 21.05               | 20.87    | 21.00    |  |
|                                                              |                 |                    | 25      | 0         | 21.07               | 20.86    | 20.95    |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.43    |          |  |
|                                                              |                 | Max. ERP (dBm):    |         |           |                     | 18.71    |          |  |
|                                                              |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                              |                 |                    |         |           |                     |          |          |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|                                                              |                 |                    |         |           | 23060               | 23095    | 23130    |  |
|                                                              |                 |                    |         |           | 704.0MHz            | 707.5MHz | 711.0MHz |  |
| 12                                                           | 10              | QPSK               | 1       | 0         | 22.49               | 22.66    | 22.54    |  |
|                                                              |                 |                    | 1       | 24        | 22.73               | 22.59    | 22.53    |  |
|                                                              |                 |                    | 1       | 49        | 22.53               | 22.68    | 22.74    |  |
|                                                              |                 |                    | 25      | 0         | 21.88               | 21.77    | 21.77    |  |
|                                                              |                 |                    | 25      | 12        | 21.80               | 21.66    | 21.71    |  |
|                                                              |                 |                    | 25      | 24        | 21.92               | 21.88    | 21.95    |  |
|                                                              |                 |                    | 50      | 0         | 21.89               | 21.77    | 21.66    |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.43    |          |  |
|                                                              |                 | Max. ERP (dBm):    |         |           |                     | 19.16    |          |  |
|                                                              |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.54               | 21.56    | 21.60    |  |
|                                                              |                 |                    | 1       | 24        | 21.93               | 21.36    | 21.75    |  |
|                                                              |                 |                    | 1       | 49        | 21.81               | 21.44    | 21.84    |  |
|                                                              |                 |                    | 25      | 0         | 21.21               | 21.05    | 20.78    |  |
|                                                              |                 |                    | 25      | 12        | 20.97               | 20.86    | 21.05    |  |
|                                                              |                 |                    | 25      | 24        | 21.04               | 21.20    | 20.99    |  |
|                                                              |                 |                    | 50      | 0         | 20.83               | 20.72    | 20.97    |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.43    |          |  |
|                                                              |                 | Max. ERP (dBm):    |         |           |                     | 18.35    |          |  |
|                                                              |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                    |         |           |                     |          |          |  |
| ERP (dBm ) = EIRP (dBm) - 2.15 (dB).                         |                 |                    |         |           |                     |          |          |  |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                                                                      |                 |                    |         |           | 23205               | 23230     | 23255     |  |
|                                                                                                      |                 |                    |         |           | 779.50MHz           | 782.00MHz | 784.50MHz |  |
| 13                                                                                                   | 5               | QPSK               | 1       | 0         | 22.68               | 22.76     | 22.70     |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.74               | 22.80     | 22.74     |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.72               | 22.77     | 22.80     |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.87               | 21.93     | 21.92     |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.79               | 21.84     | 21.76     |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.76               | 21.83     | 21.75     |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.77               | 21.78     | 21.95     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.35     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.30     |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77     |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.35               | 22.30     | 22.22     |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.27               | 22.27     | 22.15     |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.28               | 22.12     | 22.17     |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.05               | 21.09     | 21.07     |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.15               | 21.01     | 21.03     |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.19               | 21.11     | 21.01     |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.14               | 20.89     | 20.90     |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.35     |                     |           |           |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 18.85     |                     |           |           |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 34.77     |                     |           |           |  |
|                                                                                                      |                 |                    |         |           |                     |           |           |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                                                                      |                 |                    |         |           | /                   | 23230     | /         |  |
|                                                                                                      |                 |                    |         |           | /                   | 782.00MHz | /         |  |
| 13                                                                                                   | 10              | QPSK               | 1       | 0         | /                   | 22.75     | /         |  |
|                                                                                                      |                 |                    | 1       | 24        | /                   | 22.80     | /         |  |
|                                                                                                      |                 |                    | 1       | 49        | /                   | 22.67     | /         |  |
|                                                                                                      |                 |                    | 25      | 0         | /                   | 21.77     | /         |  |
|                                                                                                      |                 |                    | 25      | 12        | /                   | 21.78     | /         |  |
|                                                                                                      |                 |                    | 25      | 24        | /                   | 21.74     | /         |  |
|                                                                                                      |                 |                    | 50      | 0         | /                   | 21.85     | /         |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.35     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.30     |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77     |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | /                   | 22.24     | /         |  |
|                                                                                                      |                 |                    | 1       | 24        | /                   | 22.00     | /         |  |
|                                                                                                      |                 |                    | 1       | 49        | /                   | 22.18     | /         |  |
|                                                                                                      |                 |                    | 25      | 0         | /                   | 21.11     | /         |  |
|                                                                                                      |                 |                    | 25      | 12        | /                   | 21.05     | /         |  |
|                                                                                                      |                 |                    | 25      | 24        | /                   | 21.04     | /         |  |
|                                                                                                      |                 |                    | 50      | 0         | /                   | 20.91     | /         |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.35     |                     |           |           |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 18.74     |                     |           |           |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 34.77     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |           |           |  |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|--|
|                                                                                                      |                 |                    |         |           | 23755               | 23790    | 23825    |  |
|                                                                                                      |                 |                    |         |           | 706.5MHz            | 710.0MHz | 713.5MHz |  |
| 17                                                                                                   | 5               | QPSK               | 1       | 0         | 22.59               | 22.58    | 22.68    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.58               | 22.64    | 22.83    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.73               | 22.73    | 22.80    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.82               | 21.81    | 21.67    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.84               | 21.69    | 21.81    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.70               | 21.77    | 21.89    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.75               | 21.69    | 21.88    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.28    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.40    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.54               | 21.85    | 21.85    |  |
|                                                                                                      |                 |                    | 1       | 12        | 21.50               | 21.95    | 21.88    |  |
|                                                                                                      |                 |                    | 1       | 24        | 21.74               | 21.96    | 22.01    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.07               | 20.81    | 20.96    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.02               | 21.04    | 20.94    |  |
|                                                                                                      |                 |                    | 12      | 11        | 20.87               | 21.05    | 21.01    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.03               | 21.10    | 21.13    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.28    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 18.58    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                                                                      |                 |                    |         |           |                     |          |          |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|                                                                                                      |                 |                    |         |           | 23780               | 23790    | 23800    |  |
|                                                                                                      |                 |                    |         |           | 709.0MHz            | 710.0MHz | 711.0MHz |  |
| 17                                                                                                   | 10              | QPSK               | 1       | 0         | 22.53               | 22.56    | 22.54    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.69               | 22.60    | 22.52    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.75               | 22.74    | 22.73    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.76               | 21.79    | 21.83    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.81               | 21.68    | 21.70    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.67               | 21.70    | 21.91    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.66               | 21.81    | 21.80    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.28    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.32    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.09               | 22.02    | 21.66    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.06               | 21.77    | 21.48    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.17               | 21.93    | 21.64    |  |
|                                                                                                      |                 |                    | 25      | 0         | 20.80               | 20.83    | 20.81    |  |
|                                                                                                      |                 |                    | 25      | 12        | 20.73               | 21.05    | 21.01    |  |
|                                                                                                      |                 |                    | 25      | 24        | 20.85               | 21.08    | 21.02    |  |
|                                                                                                      |                 |                    | 50      | 0         | 20.70               | 21.00    | 20.99    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.28    |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 18.74    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |          |  |

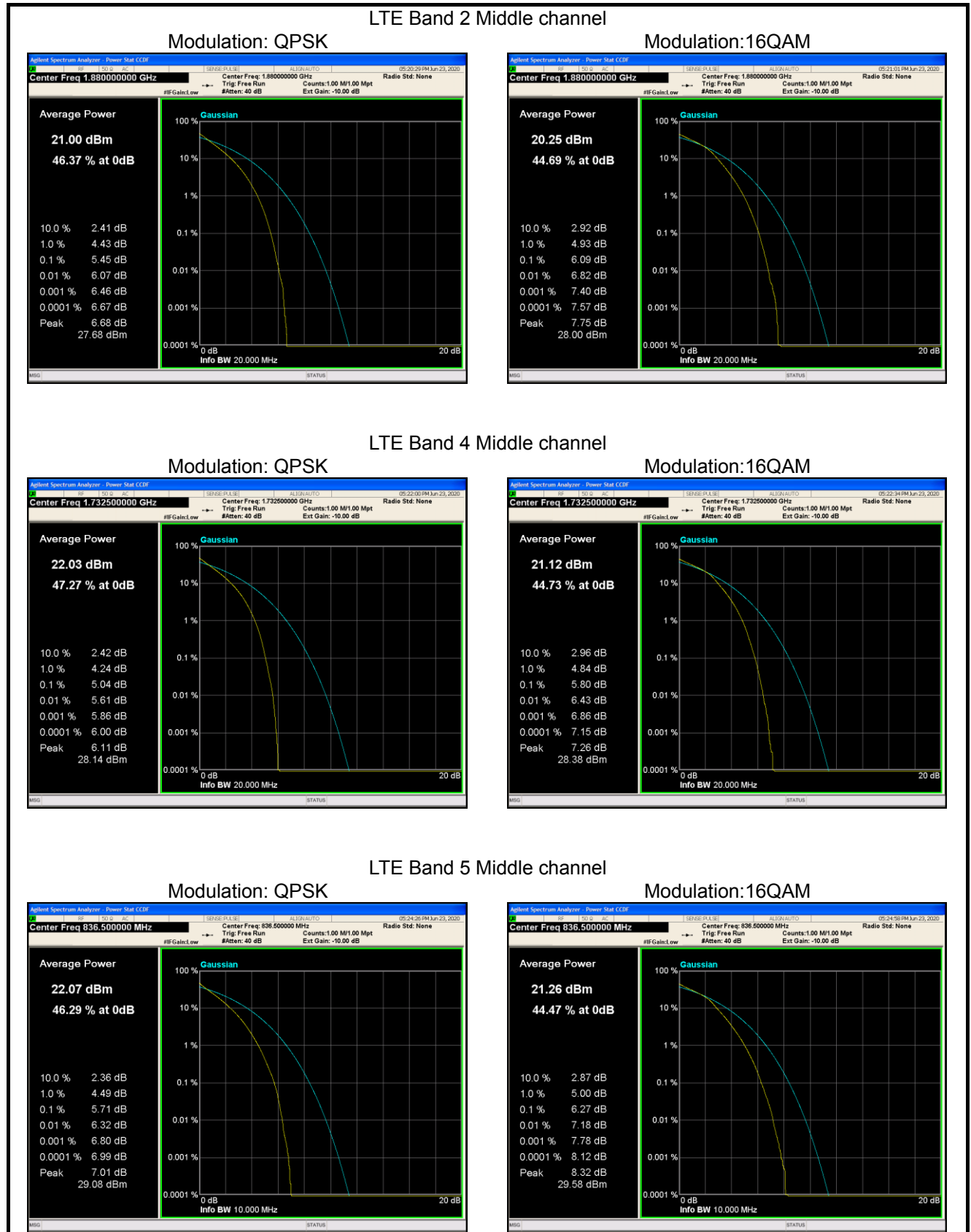
## 6.2 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 24.232 (d), Part 27.50(d)(5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Limit:            | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port is connected to a black rectangular unit labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 Set the CCDF option in spectrum analyzer, <math>RBW \geq OBW</math>,</li> <li>3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.</li> <li>4 Repeat step 1~3 at other frequency and modulations.</li> </ol>                                                                                                                                                                                                                                        |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data (Worst case):

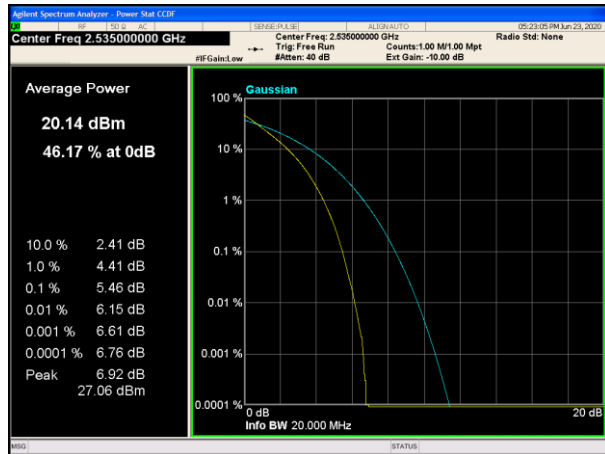
| Bandwidth                    | Modulation | RB Size | RB Offset | PAPR |
|------------------------------|------------|---------|-----------|------|
| LTE Band 2 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.45 |
|                              | 16QAM      | 100     | 0         | 6.09 |
| LTE Band 4 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.04 |
|                              | 16QAM      | 100     | 0         | 5.80 |
| LTE Band 5 (Middle Channel)  |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.71 |
|                              | 16QAM      | 50      | 0         | 6.27 |
| LTE Band 7 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.46 |
|                              | 16QAM      | 100     | 0         | 6.08 |
| LTE Band 12 (Middle Channel) |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.47 |
|                              | 16QAM      | 50      | 0         | 6.09 |
| LTE Band 13 (Middle Channel) |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.67 |
|                              | 16QAM      | 50      | 0         | 6.20 |
| LTE Band 17 (Middle Channel) |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.41 |
|                              | 16QAM      | 50      | 0         | 5.99 |

Test plots as below:

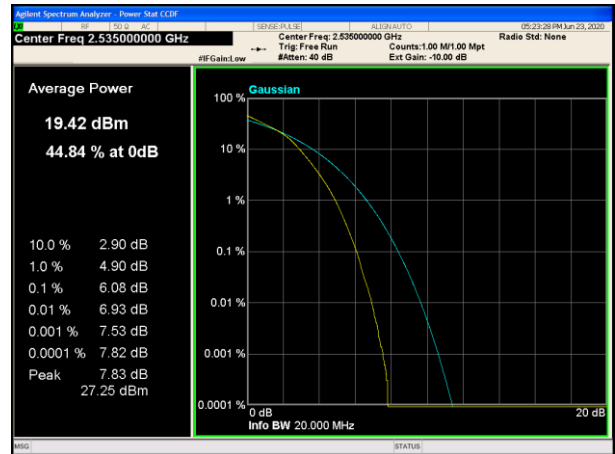


## LTE Band 7 Middle channel

Modulation: QPSK

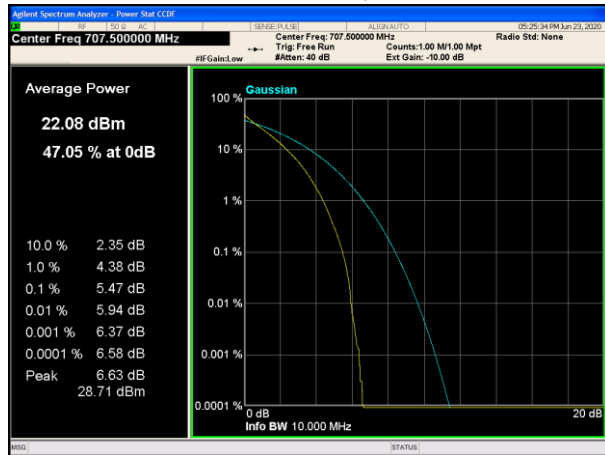


Modulation: 16QAM

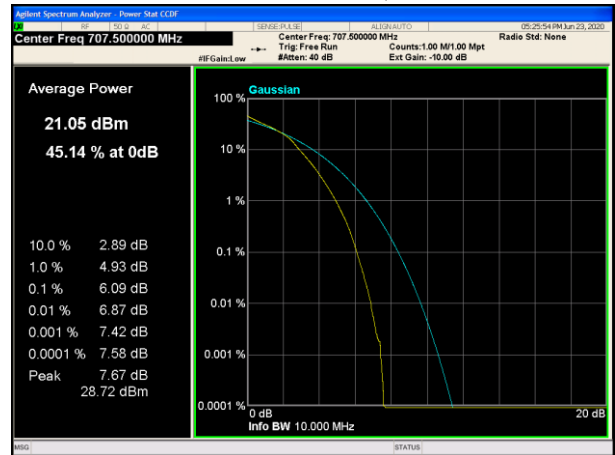


## LTE Band 12 Middle channel

Modulation: QPSK

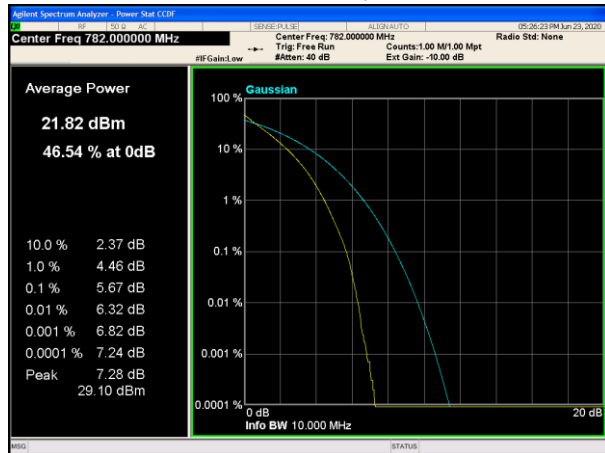


Modulation: 16QAM

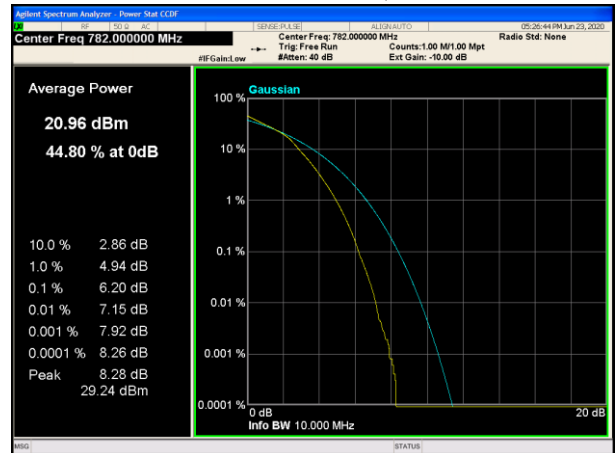


## LTE Band 13 Middle channel

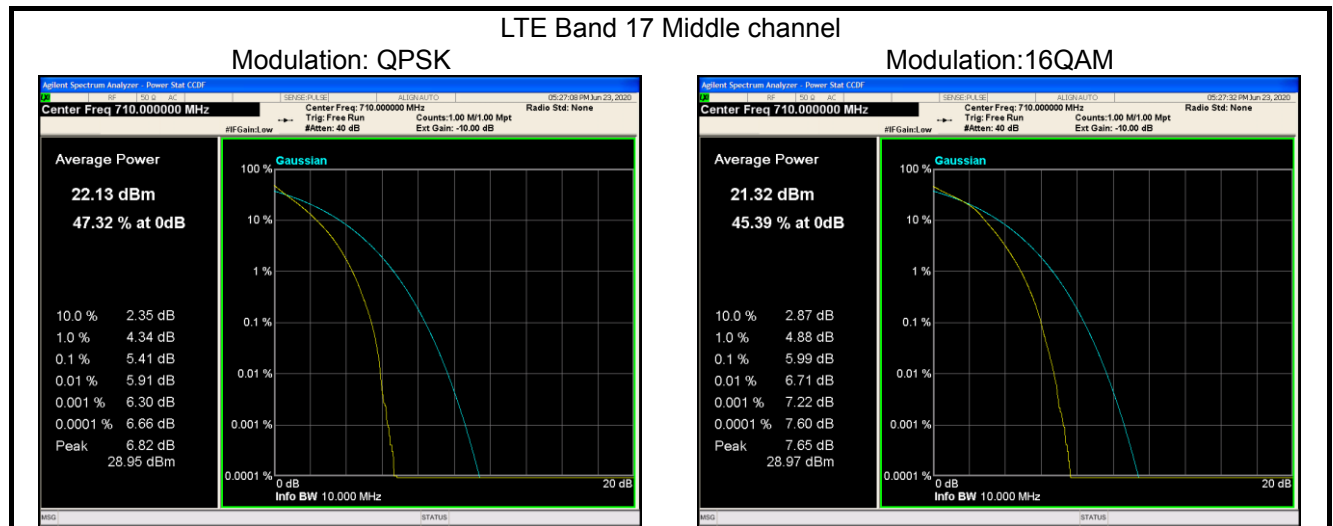
Modulation: QPSK



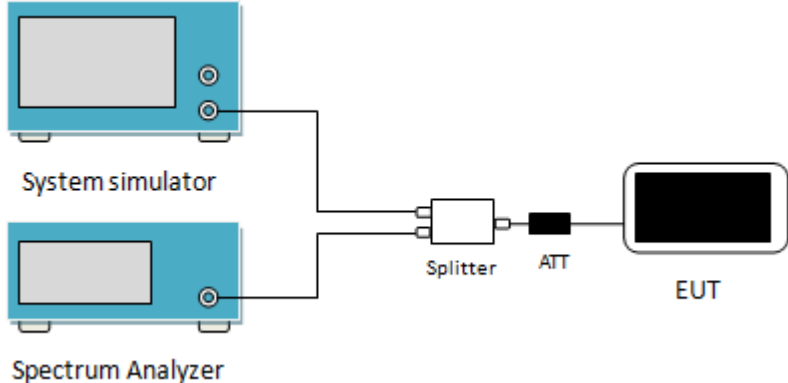
Modulation: 16QAM







### 6.3 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m), Part 27.53(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port is connected to a black rectangular unit labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol>                                                                                                                                                                                                                         |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data:

| LTE Band 2 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz     | 18607   | 1850.70         | 16QAM      | 1098          | 1278            |
|            |         |                 | QPSK       | 1104          | 1266            |
|            | 18900   | 1880.00         | 16QAM      | 1098          | 1278            |
|            |         |                 | QPSK       | 1104          | 1272            |
|            | 19193   | 1909.30         | 16QAM      | 1098          | 1248            |
|            |         |                 | QPSK       | 1104          | 1254            |
| 3MHz       | 18615   | 1851.50         | 16QAM      | 2748          | 3096            |
|            |         |                 | QPSK       | 2760          | 3144            |
|            | 18900   | 1880.00         | 16QAM      | 2736          | 3096            |
|            |         |                 | QPSK       | 2760          | 3180            |
|            | 19185   | 1908.50         | 16QAM      | 2736          | 3120            |
|            |         |                 | QPSK       | 2760          | 3132            |
| 5MHz       | 18625   | 1852.50         | 16QAM      | 4480          | 4900            |
|            |         |                 | QPSK       | 4520          | 4980            |
|            | 18900   | 1880.00         | 16QAM      | 4480          | 4920            |
|            |         |                 | QPSK       | 4520          | 4980            |
|            | 19175   | 1907.50         | 16QAM      | 4500          | 4940            |
|            |         |                 | QPSK       | 4520          | 5080            |
| 10MHz      | 18650   | 1855.00         | 16QAM      | 9120          | 10080           |
|            |         |                 | QPSK       | 9120          | 10360           |
|            | 18900   | 1880.00         | 16QAM      | 9160          | 10080           |
|            |         |                 | QPSK       | 9120          | 10200           |
|            | 19150   | 1905.00         | 16QAM      | 9120          | 10160           |
|            |         |                 | QPSK       | 9080          | 10240           |
| 15MHz      | 18675   | 1857.50         | 16QAM      | 13560         | 14520           |
|            |         |                 | QPSK       | 13500         | 15000           |
|            | 18900   | 1880.00         | 16QAM      | 13500         | 14880           |
|            |         |                 | QPSK       | 13500         | 15060           |
|            | 19125   | 1902.50         | 16QAM      | 13560         | 14820           |
|            |         |                 | QPSK       | 13560         | 15000           |
| 20MHz      | 18700   | 1860.00         | 16QAM      | 17840         | 19360           |
|            |         |                 | QPSK       | 18000         | 19760           |
|            | 18900   | 1880.00         | 16QAM      | 18000         | 19680           |
|            |         |                 | QPSK       | 18080         | 19600           |
|            | 19100   | 1900.00         | 16QAM      | 18000         | 19760           |
|            |         |                 | QPSK       | 18080         | 19680           |

| LTE Band 4 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz     | 19957   | 1710.7          | 16QAM      | 1098          | 1278            |
|            |         |                 | QPSK       | 1104          | 1260            |
|            | 20175   | 1732.5          | 16QAM      | 1104          | 1242            |
|            |         |                 | QPSK       | 1104          | 1272            |
|            | 20393   | 1754.3          | 16QAM      | 1098          | 1248            |
|            |         |                 | QPSK       | 1104          | 1272            |
| 3MHz       | 19965   | 1711.5          | 16QAM      | 2748          | 3060            |
|            |         |                 | QPSK       | 2772          | 3156            |
|            | 20175   | 1732.5          | 16QAM      | 2760          | 3048            |
|            |         |                 | QPSK       | 2772          | 3144            |
|            | 20385   | 1750.5          | 16QAM      | 2748          | 3108            |
|            |         |                 | QPSK       | 2784          | 3144            |
| 5MHz       | 19975   | 1712.5          | 16QAM      | 4500          | 4900            |
|            |         |                 | QPSK       | 4540          | 5040            |
|            | 20175   | 1732.5          | 16QAM      | 4520          | 4880            |
|            |         |                 | QPSK       | 4540          | 5000            |
|            | 20375   | 1752.5          | 16QAM      | 4520          | 4900            |
|            |         |                 | QPSK       | 4540          | 5040            |
| 10MHz      | 20000   | 1715.0          | 16QAM      | 9160          | 10280           |
|            |         |                 | QPSK       | 9120          | 10200           |
|            | 20175   | 1732.5          | 16QAM      | 9080          | 10120           |
|            |         |                 | QPSK       | 9080          | 10320           |
|            | 20350   | 1750.0          | 16QAM      | 9160          | 10280           |
|            |         |                 | QPSK       | 9160          | 10320           |
| 15MHz      | 20025   | 1717.5          | 16QAM      | 13500         | 14700           |
|            |         |                 | QPSK       | 13500         | 14940           |
|            | 20175   | 1732.5          | 16QAM      | 13560         | 14880           |
|            |         |                 | QPSK       | 13500         | 15060           |
|            | 20325   | 1747.5          | 16QAM      | 13560         | 15060           |
|            |         |                 | QPSK       | 13560         | 15060           |
| 20MHz      | 20050   | 1720.0          | 16QAM      | 18000         | 19520           |
|            |         |                 | QPSK       | 18000         | 19440           |
|            | 20175   | 1732.5          | 16QAM      | 18000         | 19440           |
|            |         |                 | QPSK       | 18080         | 19760           |
|            | 20300   | 1745.0          | 16QAM      | 17920         | 19440           |
|            |         |                 | QPSK       | 17920         | 19520           |

| TE Band 5 |         |                 |            |               |                 |
|-----------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz    | 20407   | 824.7           | 16QAM      | 1098          | 1278            |
|           |         |                 | QPSK       | 1098          | 1266            |
|           | 20525   | 836.5           | 16QAM      | 1098          | 1254            |
|           |         |                 | QPSK       | 1104          | 1260            |
|           | 20643   | 848.3           | 16QAM      | 1098          | 1272            |
|           |         |                 | QPSK       | 1098          | 1254            |
| 3MHz      | 20415   | 825.5           | 16QAM      | 2748          | 3108            |
|           |         |                 | QPSK       | 2760          | 3144            |
|           | 20525   | 836.50          | 16QAM      | 2736          | 3060            |
|           |         |                 | QPSK       | 2748          | 3084            |
|           | 20635   | 847.50          | 16QAM      | 2736          | 3060            |
|           |         |                 | QPSK       | 2772          | 3144            |
| 5MHz      | 20425   | 826.50          | 16QAM      | 4500          | 4940            |
|           |         |                 | QPSK       | 4520          | 4980            |
|           | 20525   | 836.50          | 16QAM      | 4500          | 4900            |
|           |         |                 | QPSK       | 4540          | 5000            |
|           | 20625   | 846.50          | 16QAM      | 4500          | 4940            |
|           |         |                 | QPSK       | 4500          | 5020            |
| 10MHz     | 20450   | 829.00          | 16QAM      | 9080          | 10120           |
|           |         |                 | QPSK       | 9120          | 10320           |
|           | 20525   | 836.50          | 16QAM      | 9120          | 10200           |
|           |         |                 | QPSK       | 9120          | 10160           |
|           | 20600   | 844.00          | 16QAM      | 9120          | 10080           |
|           |         |                 | QPSK       | 9080          | 10200           |

| LTE Band 7 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz       | 20775   | 2502.5          | 16QAM      | 4500          | 4960            |
|            |         |                 | QPSK       | 4540          | 5080            |
|            | 21100   | 2535.0          | 16QAM      | 4500          | 4900            |
|            |         |                 | QPSK       | 4520          | 4960            |
|            | 21425   | 2567.5          | 16QAM      | 4500          | 5000            |
|            |         |                 | QPSK       | 4540          | 4980            |
| 10MHz      | 20800   | 2505.0          | 16QAM      | 9080          | 10160           |
|            |         |                 | QPSK       | 9120          | 10560           |
|            | 21100   | 2535.0          | 16QAM      | 9080          | 10160           |
|            |         |                 | QPSK       | 9080          | 10160           |
|            | 21400   | 2565.0          | 16QAM      | 9120          | 10080           |
|            |         |                 | QPSK       | 9160          | 10360           |
| 15MHz      | 20825   | 2507.5          | 16QAM      | 13440         | 14880           |
|            |         |                 | QPSK       | 13500         | 15120           |
|            | 21100   | 2535.0          | 16QAM      | 13500         | 14820           |
|            |         |                 | QPSK       | 13500         | 15180           |
|            | 21375   | 2562.5          | 16QAM      | 13560         | 14880           |
|            |         |                 | QPSK       | 13560         | 14940           |
| 20MHz      | 20850   | 2510.0          | 16QAM      | 17920         | 19520           |
|            |         |                 | QPSK       | 17920         | 19600           |
|            | 21100   | 2535.0          | 16QAM      | 17920         | 19440           |
|            |         |                 | QPSK       | 18000         | 19840           |
|            | 21350   | 2560.0          | 16QAM      | 18000         | 19680           |
|            |         |                 | QPSK       | 18080         | 20000           |

| LTE Band 12 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz      | 23017   | 699.7           | 16QAM      | 1098          | 1272            |
|             |         |                 | QPSK       | 1098          | 1248            |
|             | 23095   | 707.5           | 16QAM      | 1104          | 1260            |
|             |         |                 | QPSK       | 1104          | 1254            |
|             | 23173   | 715.3           | 16QAM      | 1098          | 1248            |
|             |         |                 | QPSK       | 1098          | 1254            |
| 3MHz        | 23025   | 700.5           | 16QAM      | 2736          | 3000            |
|             |         |                 | QPSK       | 2748          | 3132            |
|             | 23095   | 707.5           | 16QAM      | 2736          | 3060            |
|             |         |                 | QPSK       | 2772          | 3108            |
|             | 23165   | 714.5           | 16QAM      | 2748          | 3096            |
|             |         |                 | QPSK       | 2760          | 3120            |
| 5MHz        | 23035   | 701.5           | 16QAM      | 4460          | 4900            |
|             |         |                 | QPSK       | 4540          | 4960            |
|             | 23095   | 707.5           | 16QAM      | 4520          | 4900            |
|             |         |                 | QPSK       | 4500          | 4920            |
|             | 23155   | 713.5           | 16QAM      | 4500          | 4920            |
|             |         |                 | QPSK       | 4520          | 5000            |
| 10MHz       | 23060   | 704.0           | 16QAM      | 9080          | 10160           |
|             |         |                 | QPSK       | 9080          | 10240           |
|             | 23095   | 707.5           | 16QAM      | 9080          | 10160           |
|             |         |                 | QPSK       | 9160          | 10360           |
|             | 23130   | 711.0           | 16QAM      | 9040          | 10080           |
|             |         |                 | QPSK       | 9080          | 10240           |

| LTE Band 13 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 23205   | 779.5           | 16QAM      | 4480          | 4960            |
|             |         |                 | QPSK       | 4520          | 4960            |
|             | 23230   | 782.0           | 16QAM      | 4500          | 4920            |
|             |         |                 | QPSK       | 4520          | 5040            |
|             | 23255   | 784.5           | 16QAM      | 4500          | 4920            |
|             |         |                 | QPSK       | 4520          | 5000            |
| 10MHz       | 23230   | 782.0           | 16QAM      | 9080          | 10120           |
|             |         |                 | QPSK       | 9080          | 10280           |

| LTE Band 17 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 23755   | 706.5           | 16QAM      | 4500          | 4940            |
|             |         |                 | QPSK       | 4520          | 5040            |
|             | 23790   | 710.0           | 16QAM      | 4500          | 4880            |
|             |         |                 | QPSK       | 4500          | 5000            |
|             | 23825   | 713.5           | 16QAM      | 4500          | 5000            |
|             |         |                 | QPSK       | 4520          | 5000            |
| 10MHz       | 23780   | 709.0           | 16QAM      | 9080          | 10000           |
|             |         |                 | QPSK       | 9120          | 10200           |
|             | 23790   | 710.0           | 16QAM      | 9080          | 10120           |
|             |         |                 | QPSK       | 9080          | 10160           |
|             | 23130   | 711.0           | 16QAM      | 9080          | 10000           |
|             |         |                 | QPSK       | 9080          | 10160           |

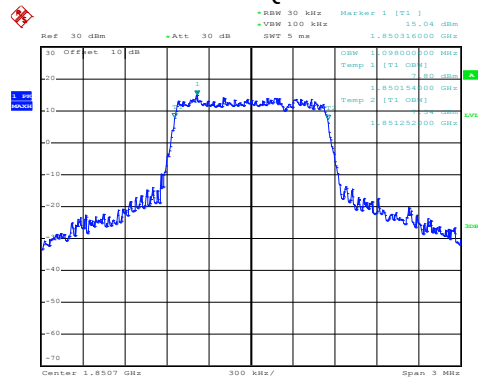


Test plot as follows:

LTE Band 2 part:

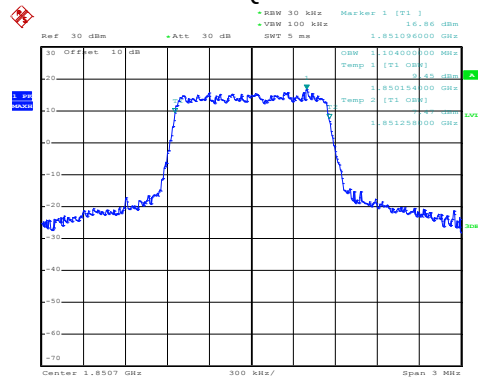
LTE Band 2: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 24.JUN.2020 15:11:13

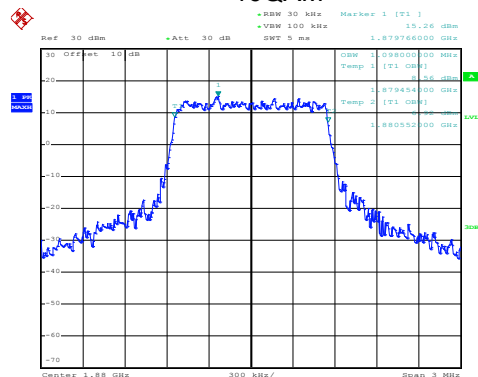
QPSK



Date: 24.JUN.2020 15:11:08

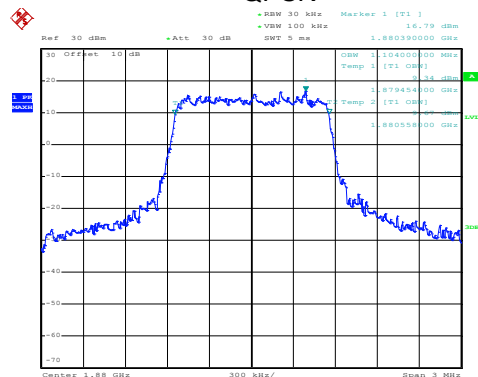
Lowest channel

16QAM



Date: 24.JUN.2020 15:11:26

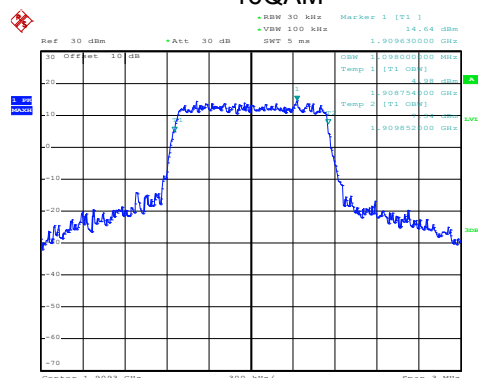
QPSK



Date: 24.JUN.2020 15:11:22

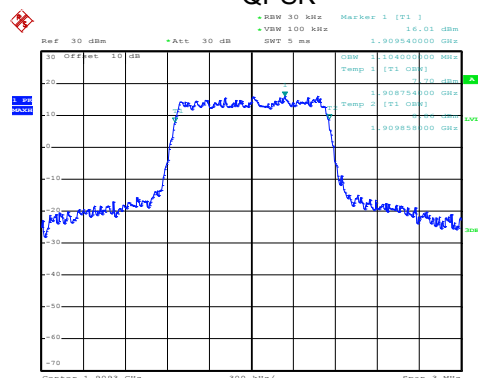
Middle channel

16QAM



Date: 24.JUN.2020 15:12:06

QPSK

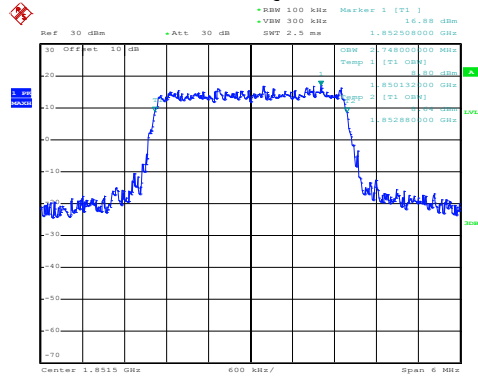


Date: 24.JUN.2020 15:12:02

Highest channel

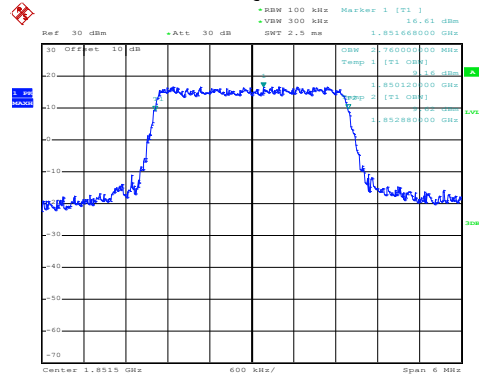
LTE Band 2: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 15:09:24

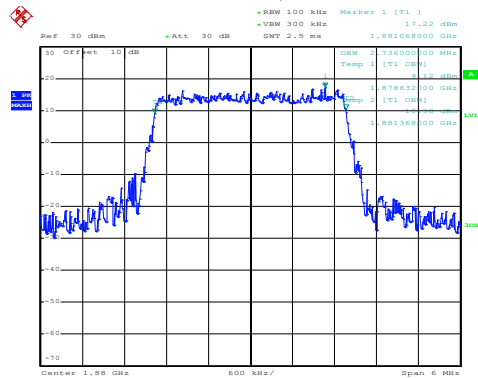
## QPSK



Date: 24.JUN.2020 15:09:20

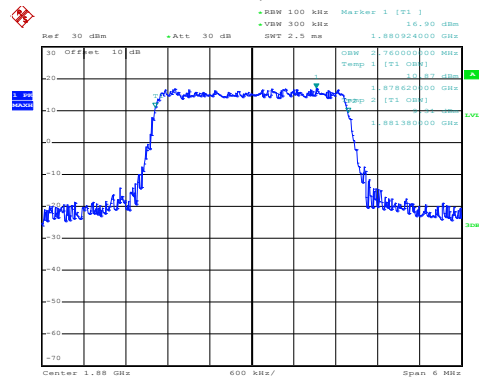
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:10:02

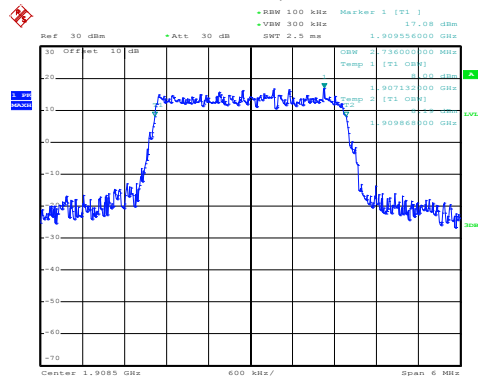
## QPSK



Date: 24.JUN.2020 15:09:58

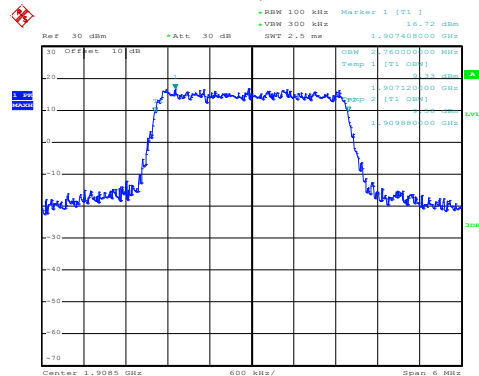
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:10:19

## QPSK

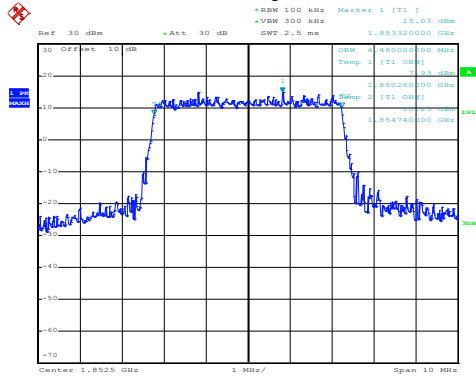


Date: 24.JUN.2020 15:10:15

## Highest channel

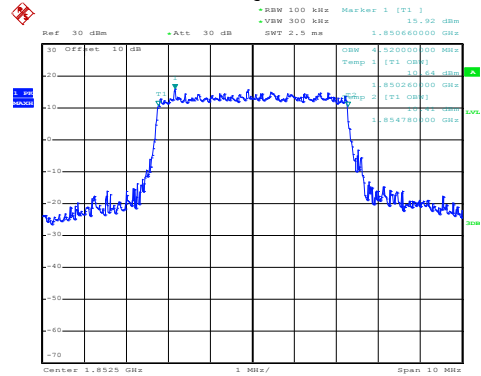
LTE Band 2: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 15:07:58

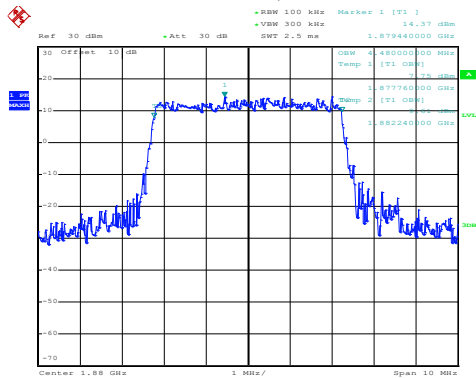
## QPSK



Date: 24.JUN.2020 15:07:54

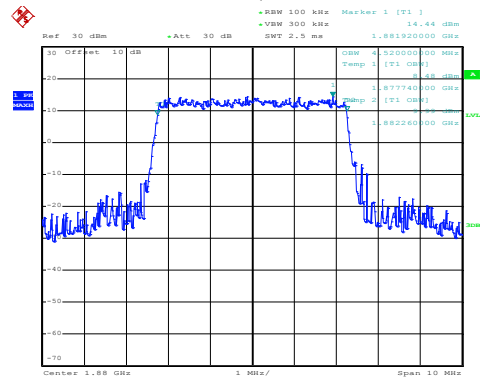
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:08:12

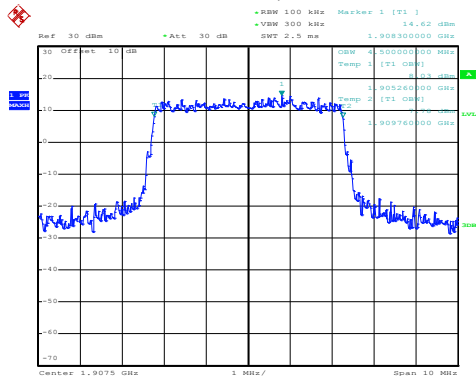
## QPSK



Date: 24.JUN.2020 15:08:08

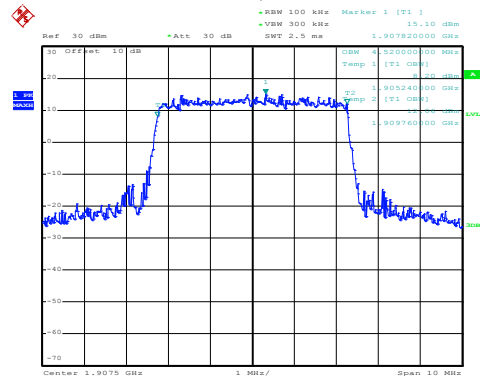
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:08:57

## QPSK



Date: 24.JUN.2020 15:08:52

## Highest channel

16QAM



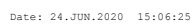
Date: 24.JUN.2020 15:05:22

## 16QAM



Date: 24.JUN.2020 15:05:53

## 16QAM

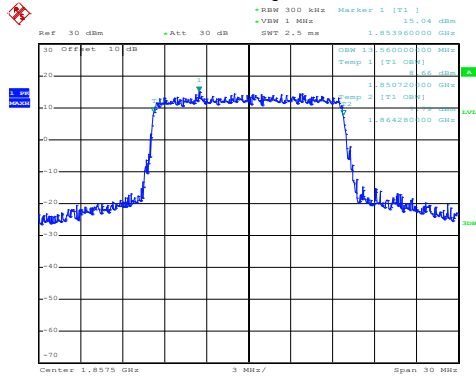


Date: 24.JUN.2020 15:06:21

## Page 44 of

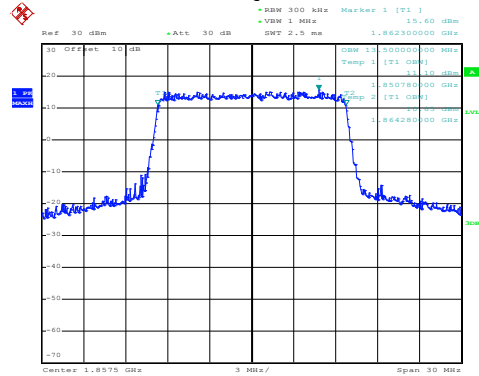
LTE Band 2: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 24.JUN.2020 15:04:00

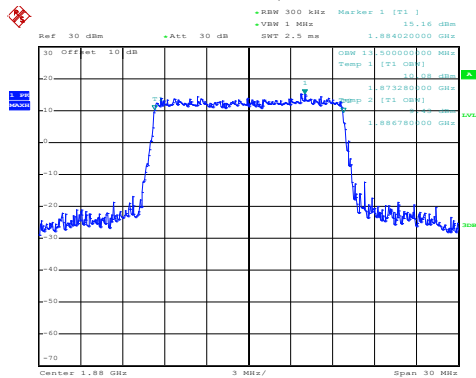
## QPSK



Date: 24.JUN.2020 15:03:55

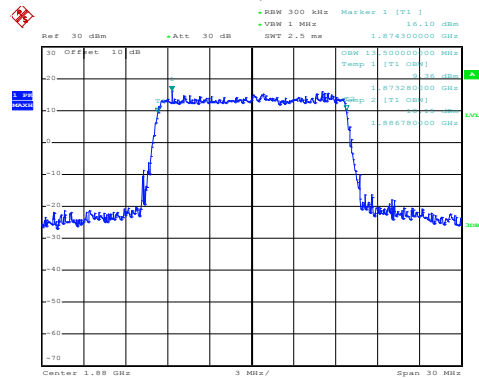
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:04:14

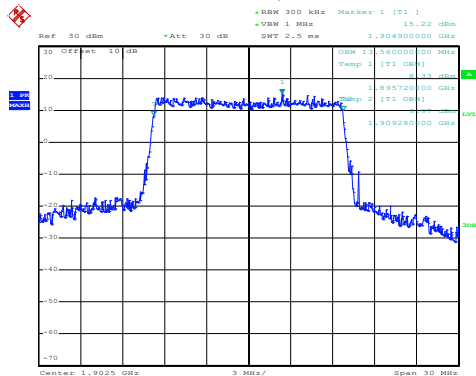
## QPSK



Date: 24.JUN.2020 15:04:10

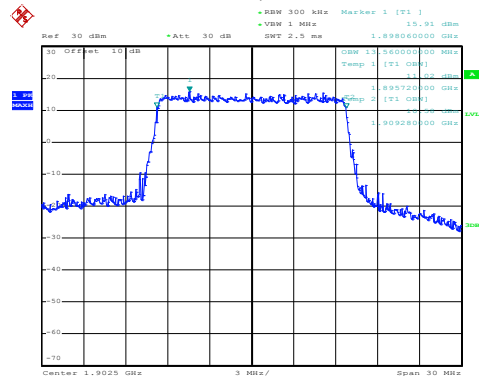
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:04:59

## QPSK

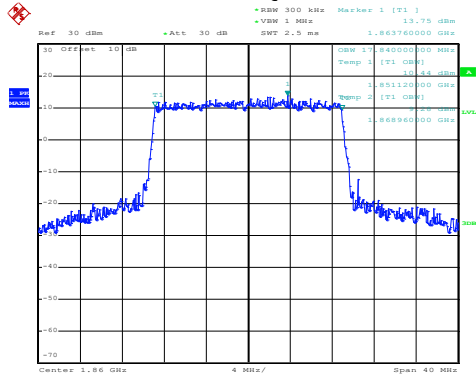


Date: 24.JUN.2020 15:04:55

## Highest channel

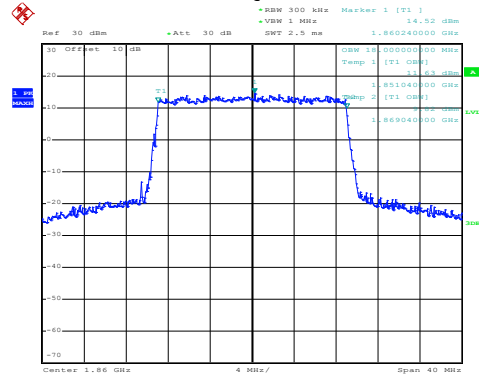
LTE Band 2: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 15:01:32

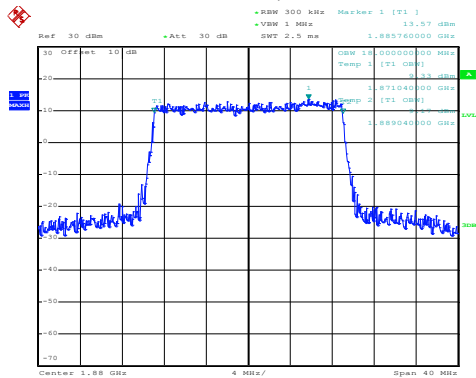
## QPSK



Date: 24.JUN.2020 15:01:29

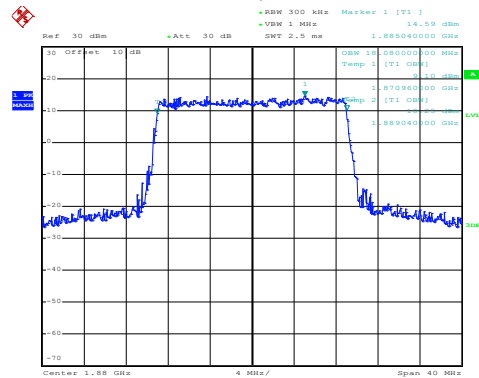
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:02:08

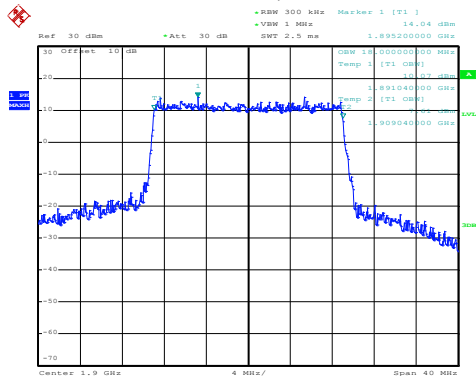
## QPSK



Date: 24.JUN.2020 15:02:04

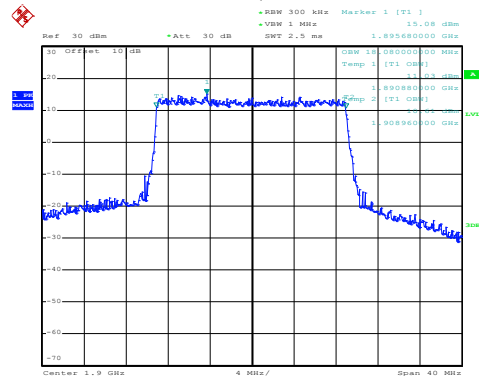
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:02:23

## QPSK

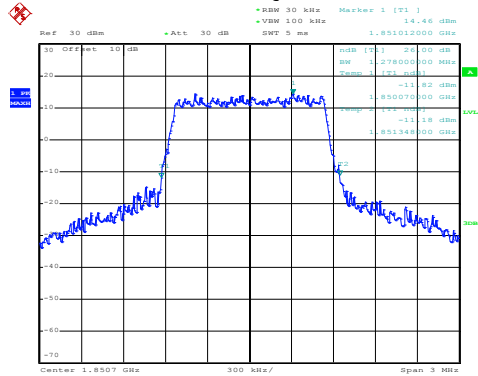


Date: 24.JUN.2020 15:02:19

## Highest channel

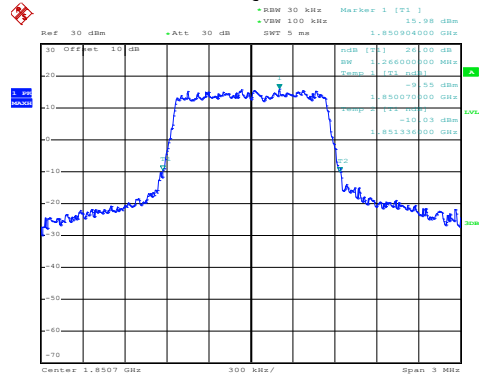
LTE Band 2: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 24.JUN.2020 15:11:00

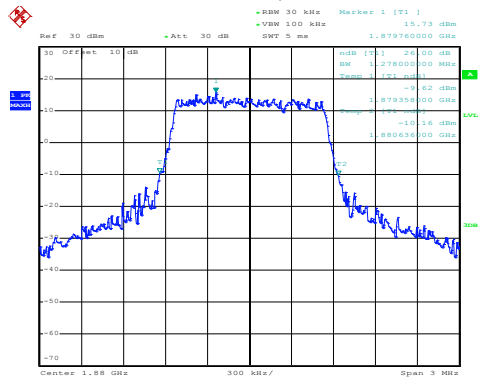
## QPSK



Date: 24.JUN.2020 15:10:56

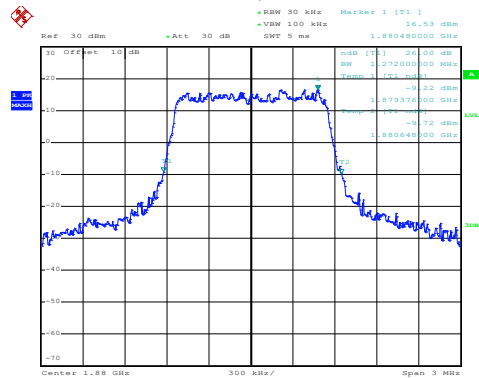
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:11:38

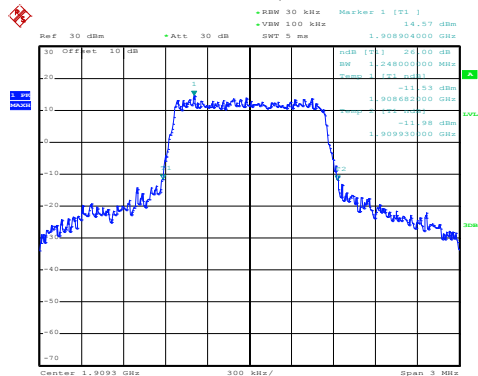
## QPSK



Date: 24.JUN.2020 15:11:34

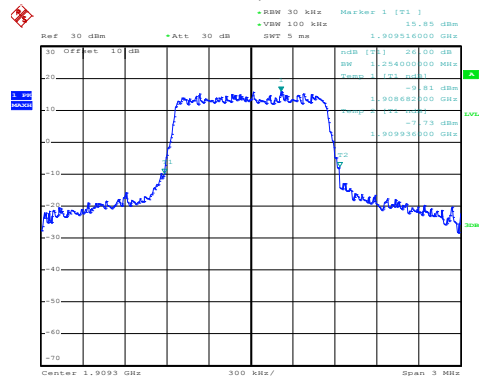
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:11:55

## QPSK

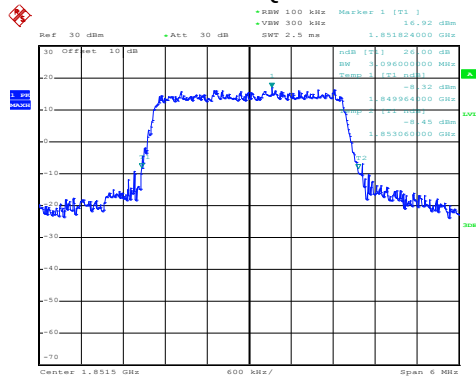


Date: 24.JUN.2020 15:11:51

## Highest channel

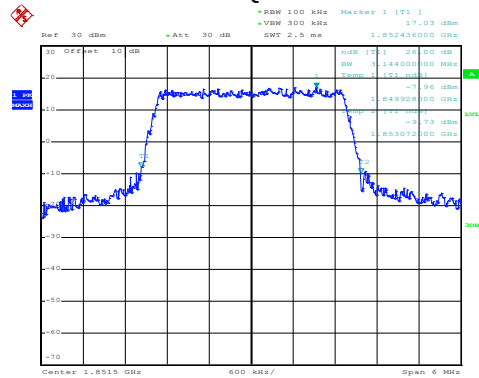
LTE Band 2: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 15:09:36

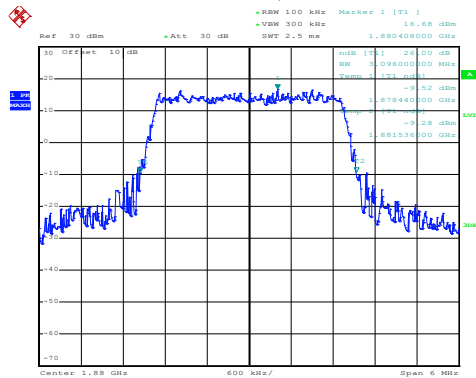
## QPSK



Date: 24.JUN.2020 15:09:31

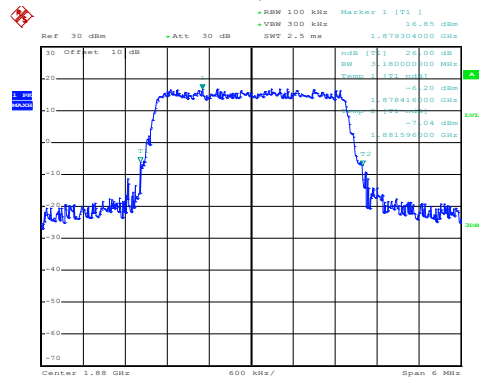
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:09:51

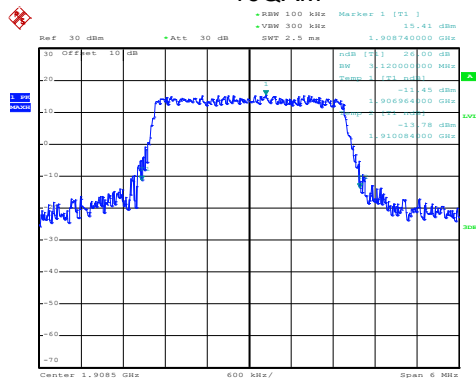
## QPSK



Date: 24.JUN.2020 15:09:47

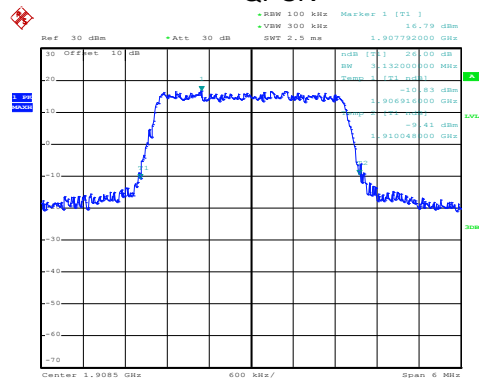
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:10:31

## QPSK



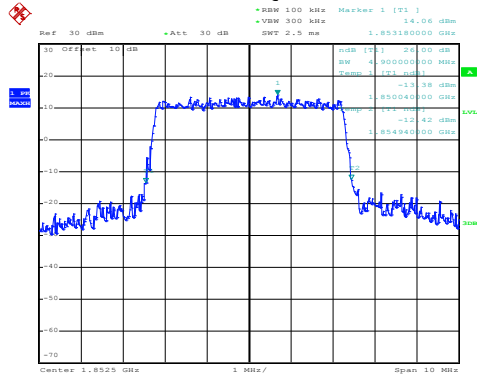
Date: 24.JUN.2020 15:10:27

## Highest channel



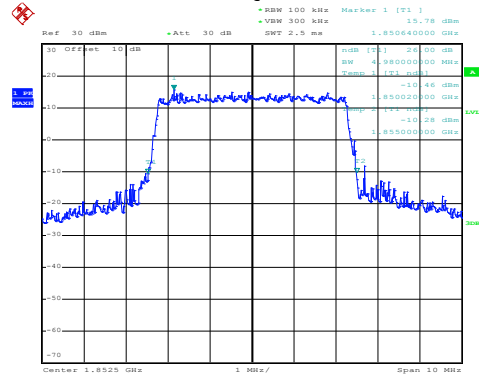
LTE Band 2: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 15:07:46

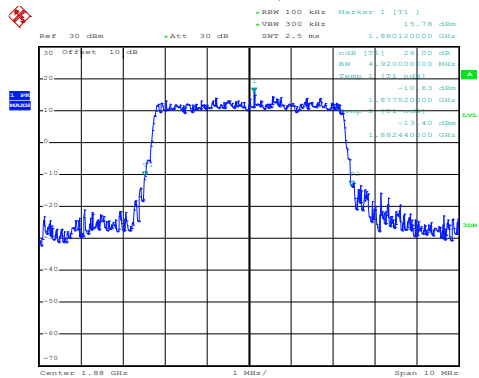
## QPSK



Date: 24.JUN.2020 15:07:42

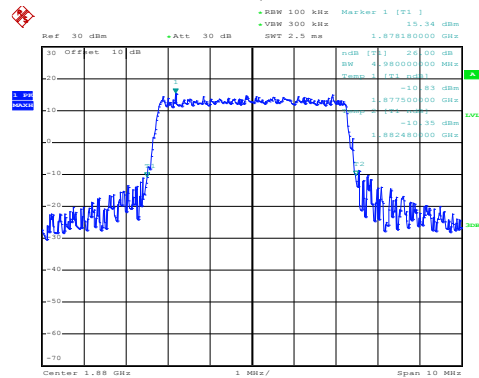
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:08:25

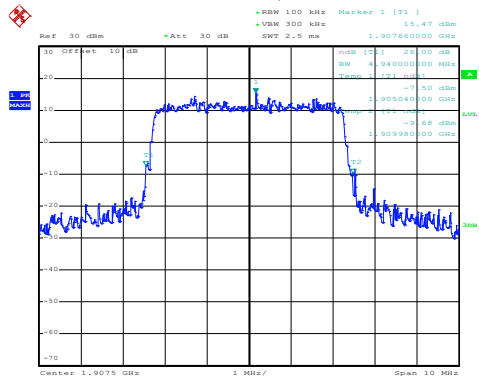
## QPSK



Date: 24.JUN.2020 15:08:20

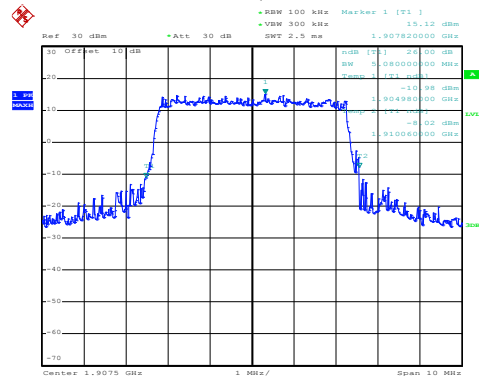
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:08:45

## QPSK

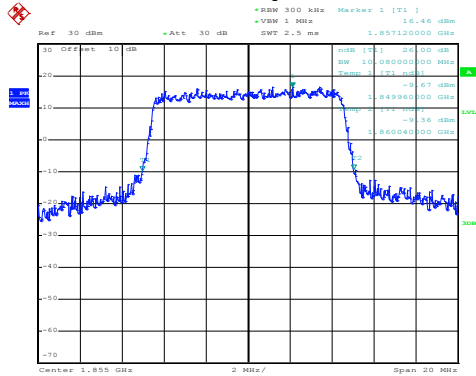


Date: 24.JUN.2020 15:08:41

## Highest channel

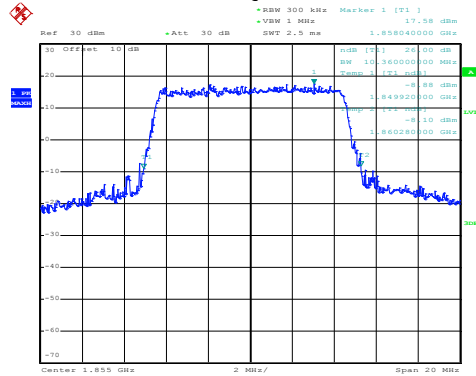
LTE Band 2: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 15:05:36

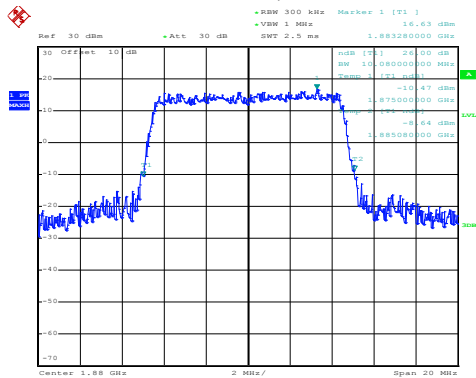
## QPSK



Date: 24.JUN.2020 15:05:32

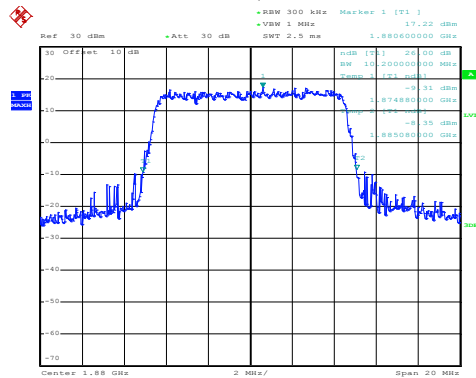
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:05:47

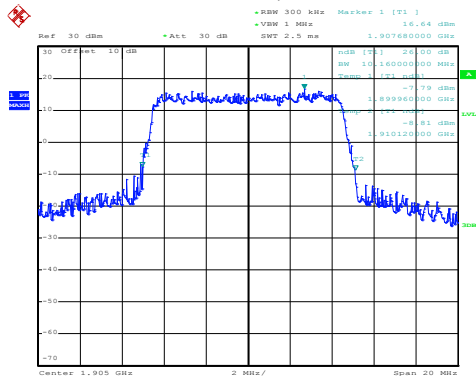
## QPSK



Date: 24.JUN.2020 15:05:43

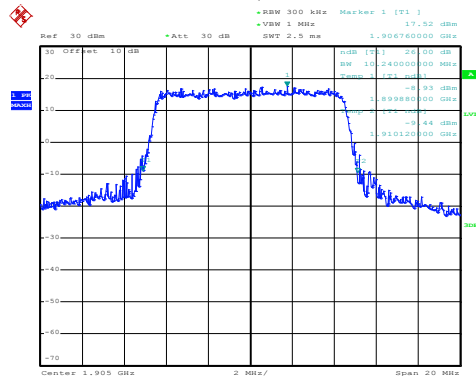
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:06:36

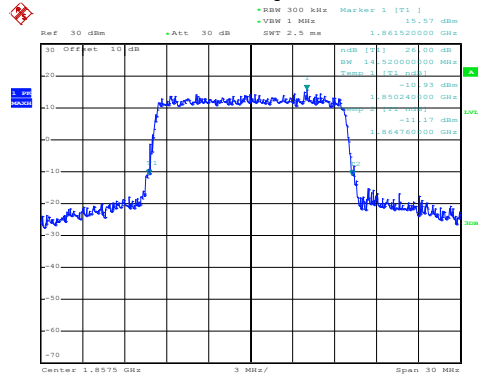
## QPSK



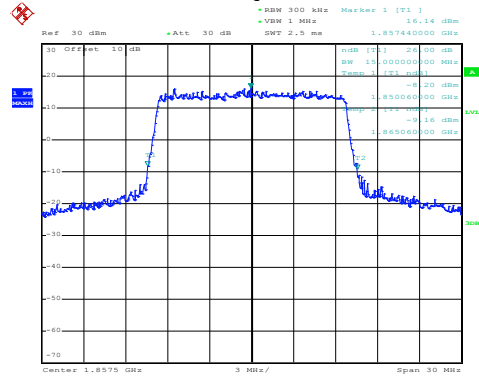
Date: 24.JUN.2020 15:06:32

## Highest channel

QPSK



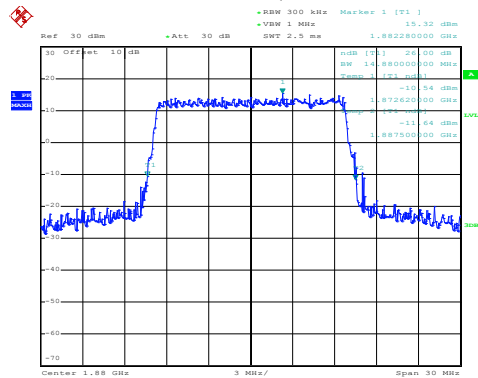
Date: 24.JUN.2020 15:03:48



Date: 24.JUN.2020 15:03:44

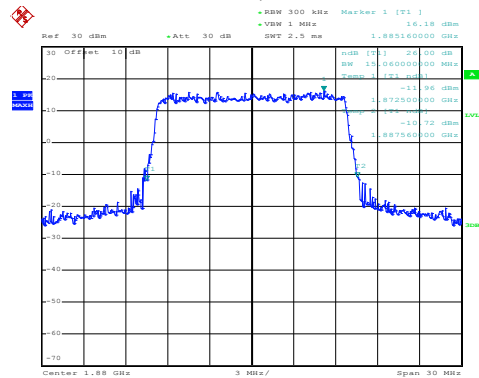
Lowest channel

16QAM



Date: 24.JUN.2020 15:04:27

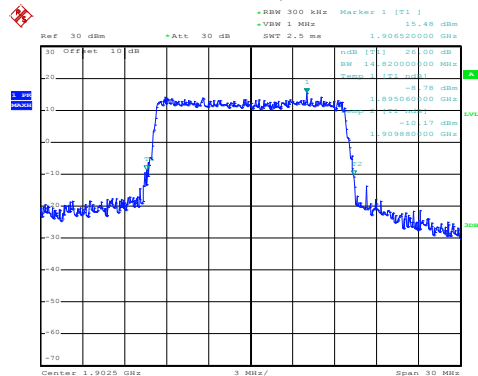
QPSK



Date: 24.JUN.2020 15:04:23

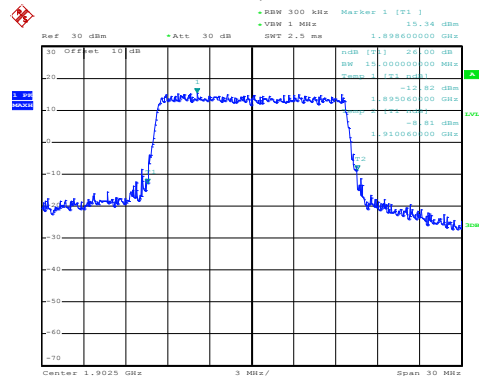
Middle channel

16QAM



Date: 24.JUN.2020 15:04:47

QPSK

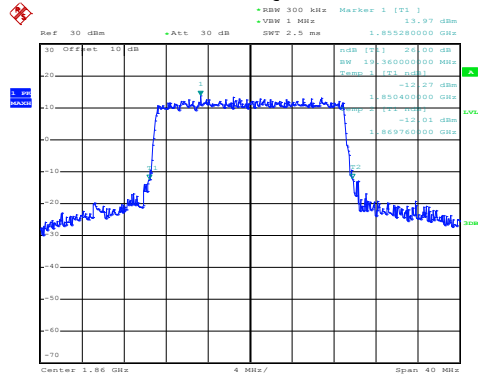


Date: 24.JUN.2020 15:04:44

Highest channel

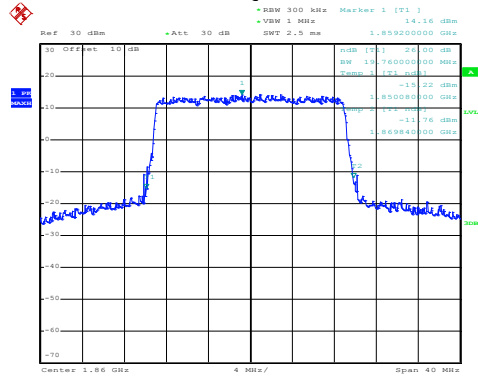
LTE Band 2: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 15:01:46

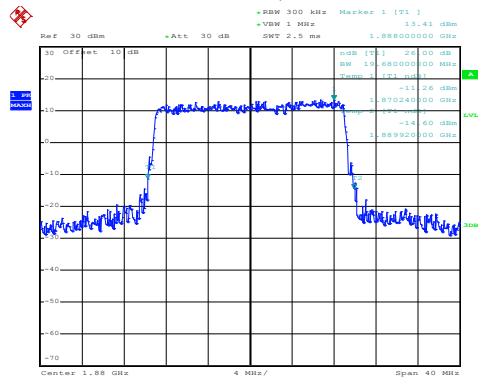
## QPSK



Date: 24.JUN.2020 15:01:41

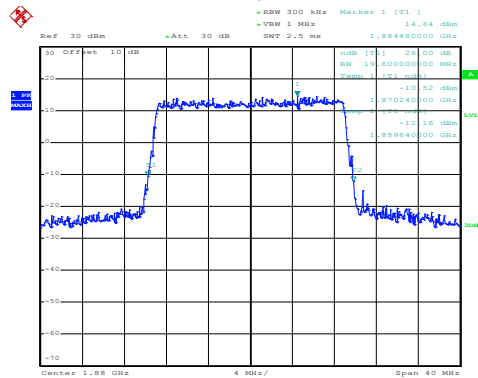
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:01:58

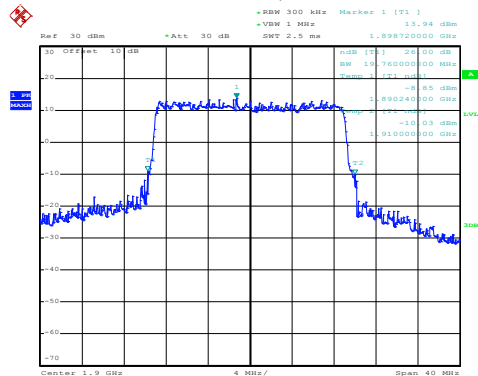
## QPSK



Date: 24.JUN.2020 15:01:54

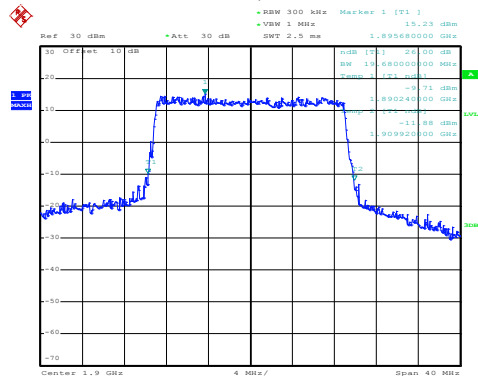
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:02:40

## QPSK



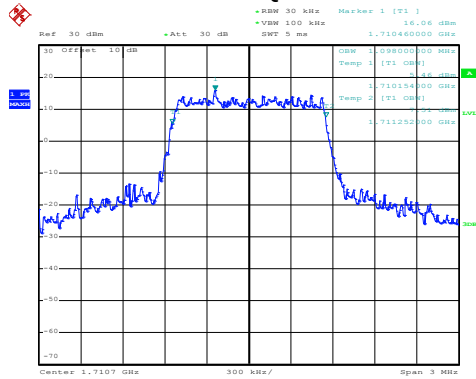
Date: 24.JUN.2020 15:02:35

## Highest channel

## LTE Band 4 part:

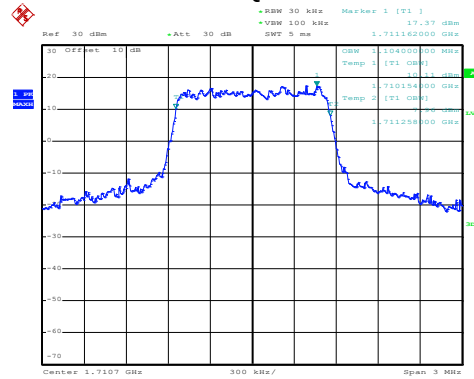
LTE Band 4: 99% Occupancy bandwidth  
BW: 1.4MHz

## 16QAM



Date: 24.JUN.2020 14:51:18

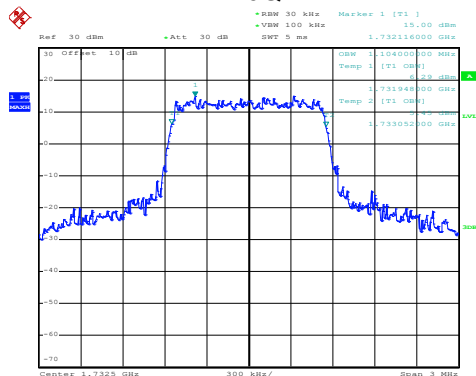
## QPSK



Date: 24.JUN.2020 14:51:15

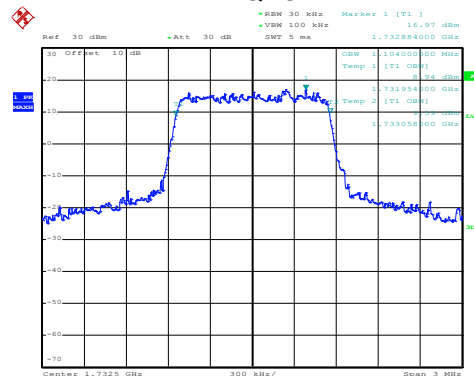
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:51:54

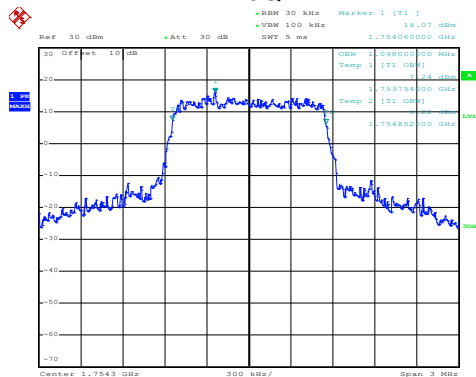
## QPSK



Date: 24.JUN.2020 14:51:50

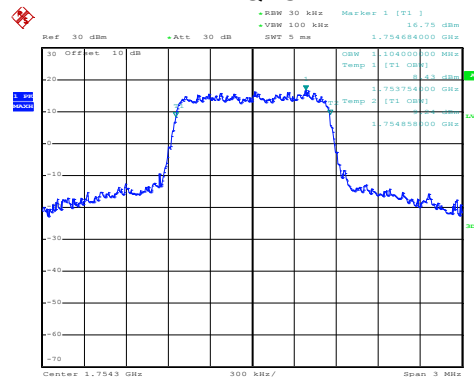
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:52:09

## QPSK

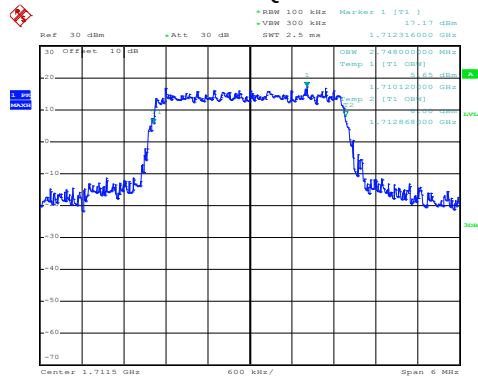


Date: 24.JUN.2020 14:52:06

## Highest channel

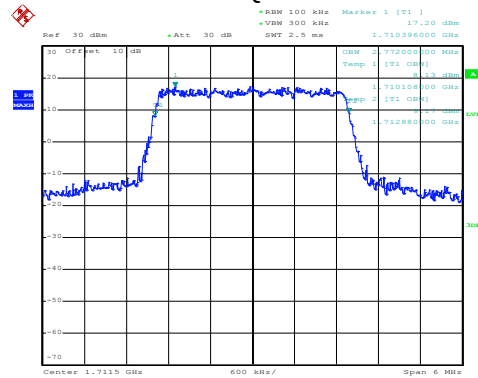
LTE Band 4: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 14:53:12

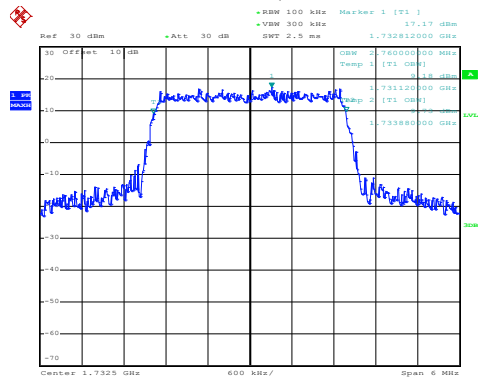
## QPSK



Date: 24.JUN.2020 14:53:08

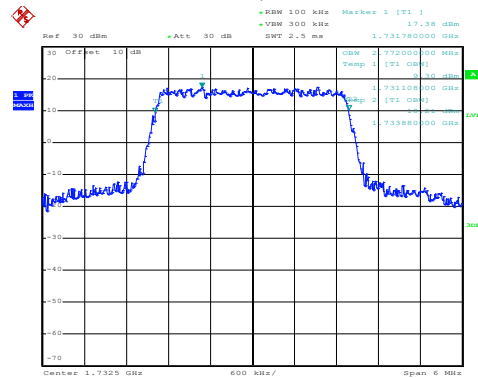
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:53:31

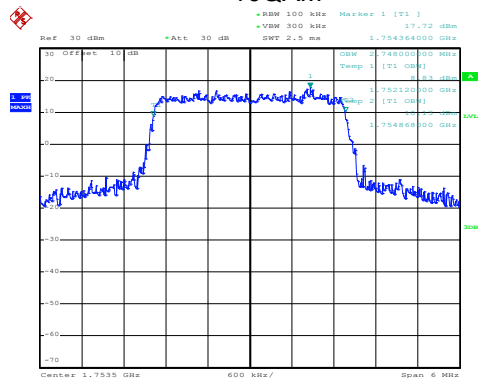
## QPSK



Date: 24.JUN.2020 14:53:27

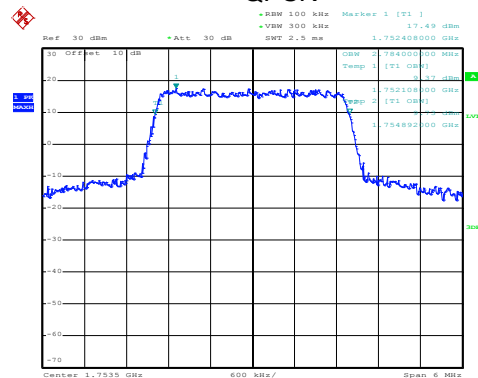
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:54:17

## QPSK

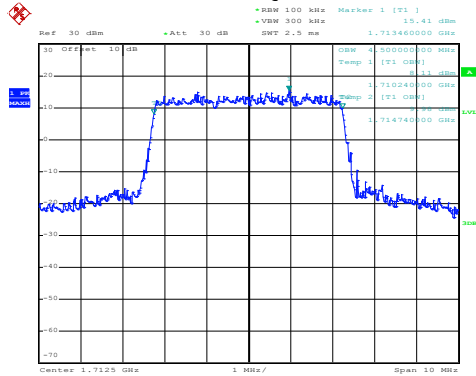


Date: 24.JUN.2020 14:54:13

## Highest channel

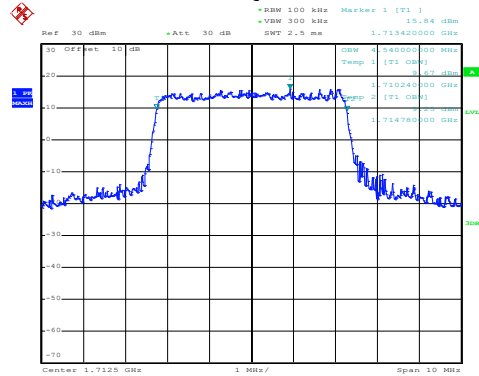
LTE Band 4: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 14:54:48

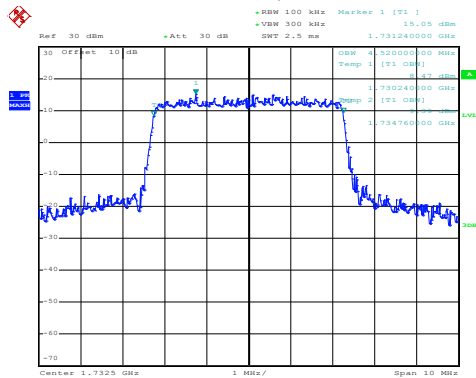
## QPSK



Date: 24.JUN.2020 14:54:43

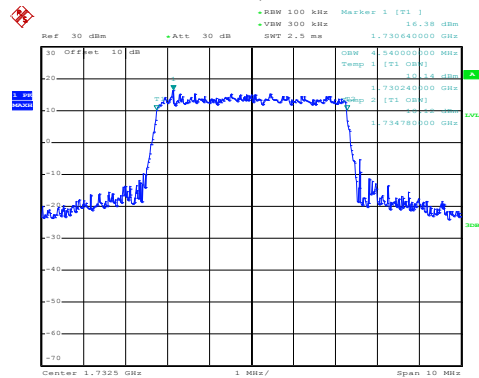
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:55:27

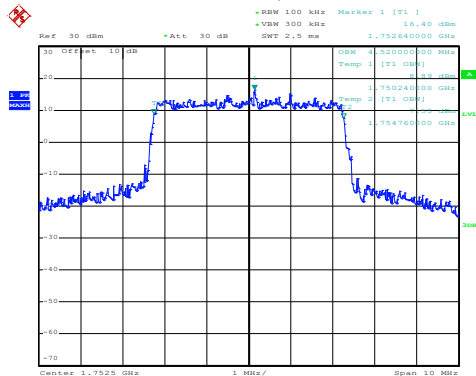
## QPSK



Date: 24.JUN.2020 14:55:21

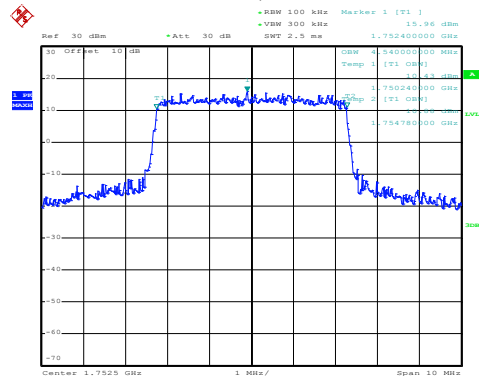
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:55:41

## QPSK

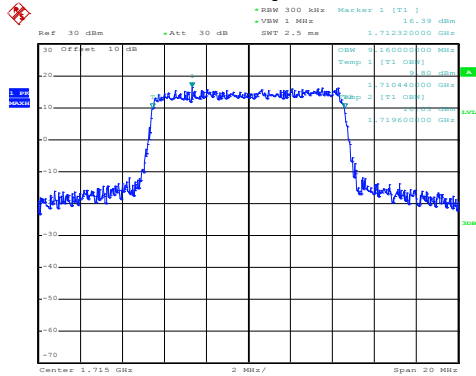


Date: 24.JUN.2020 14:55:37

## Highest channel

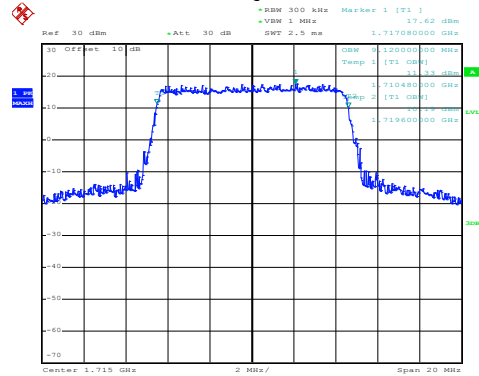
LTE Band 4: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 14:56:50

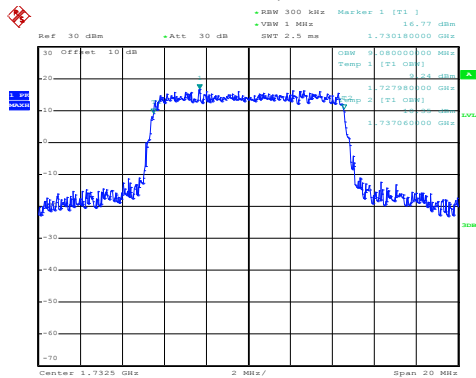
## QPSK



Date: 24.JUN.2020 14:56:47

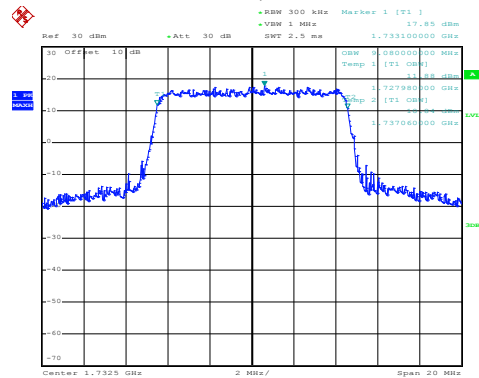
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:57:05

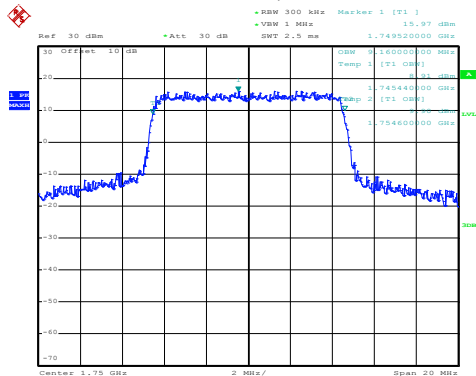
## QPSK



Date: 24.JUN.2020 14:57:02

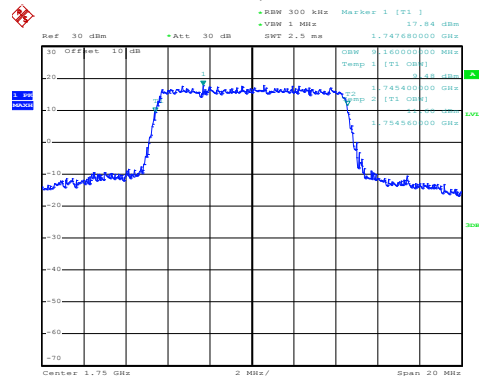
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:57:55

## QPSK



Date: 24.JUN.2020 14:57:51

## Highest channel



16QAM



## Date: 24.JUN.2020 14:58:14

16QAM



Date: 24.JUN.2020 14:58:49

16QAM

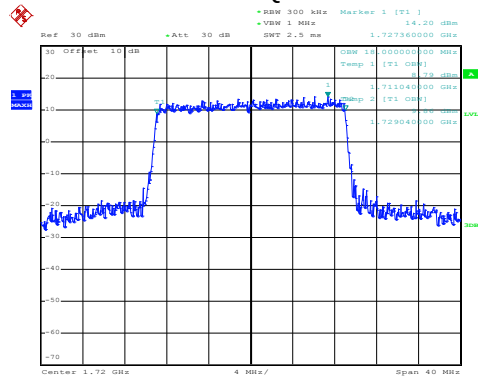


Date: 24.JUN.2020 14:59:32

## Page 57 of

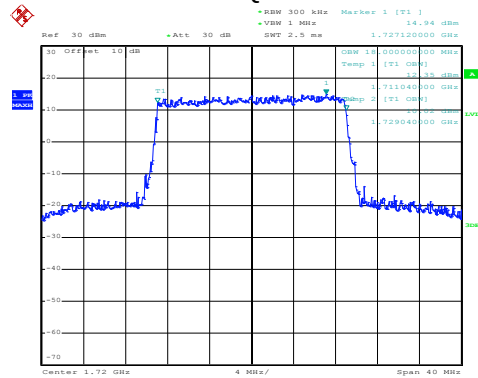
LTE Band 4: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 15:00:28

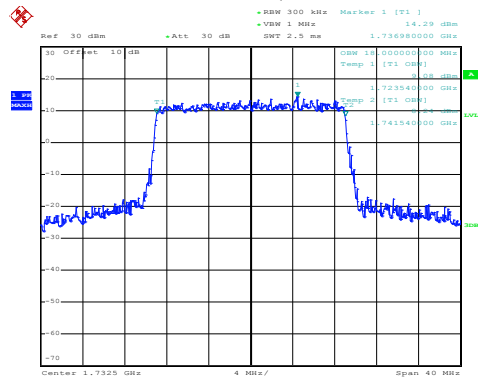
## QPSK



Date: 24.JUN.2020 15:00:25

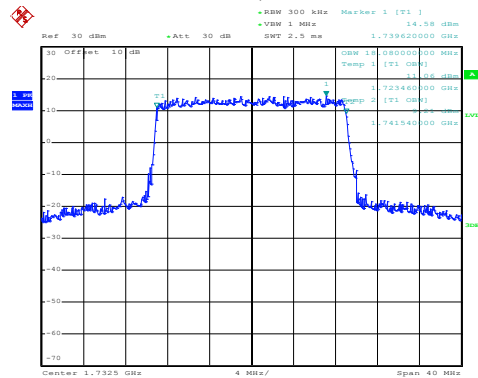
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:00:41

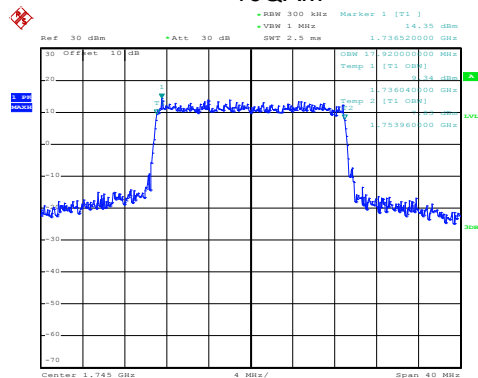
## QPSK



Date: 24.JUN.2020 15:00:37

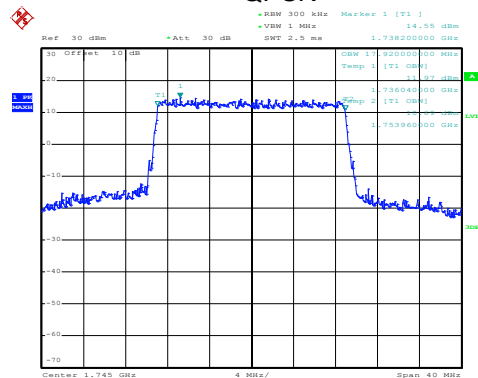
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:01:15

## QPSK

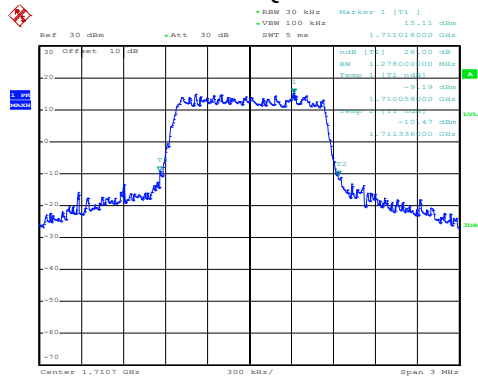


Date: 24.JUN.2020 15:01:11

## Highest channel

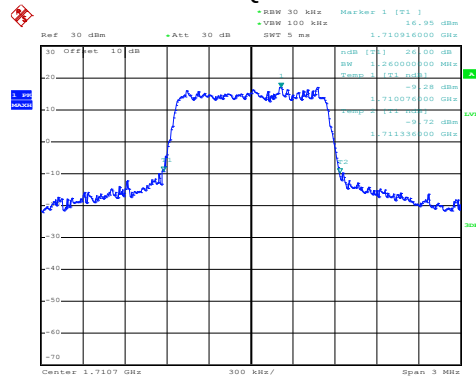
LTE Band 4: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 24.JUN.2020 14:51:30

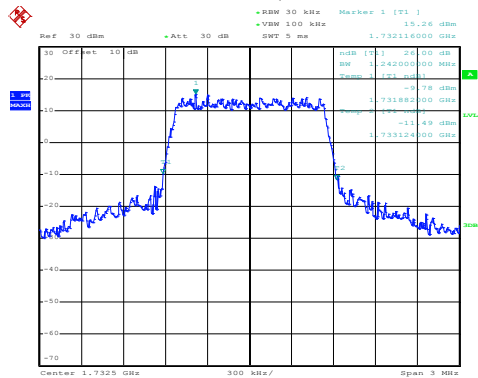
## QPSK



Date: 24.JUN.2020 14:51:27

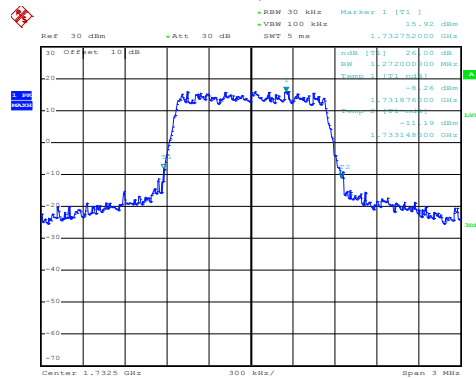
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:51:43

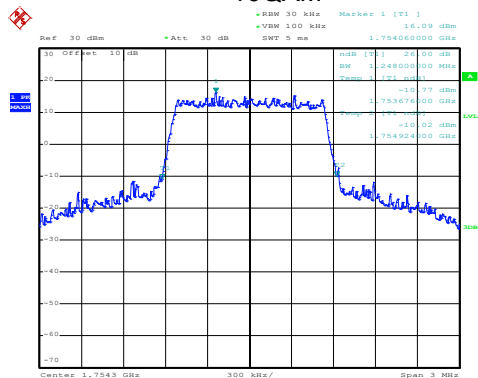
## QPSK



Date: 24.JUN.2020 14:51:39

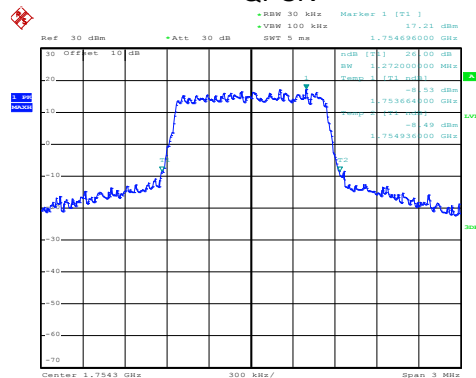
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:52:20

## QPSK

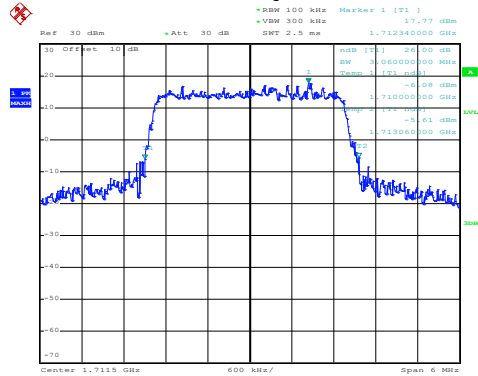


Date: 24.JUN.2020 14:52:16

## Highest channel

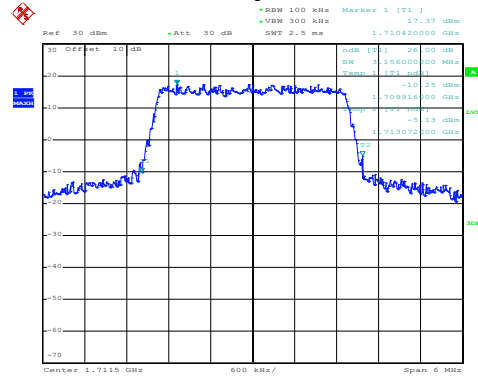
LTE Band 4: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 14:53:02

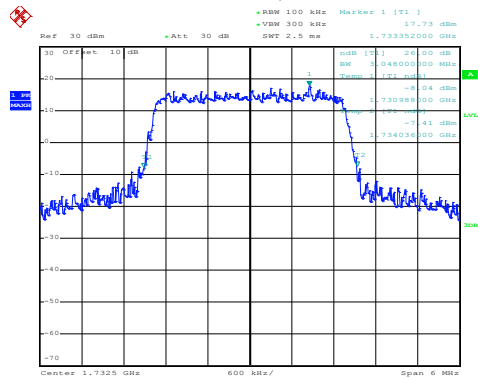
## QPSK



Date: 24.JUN.2020 14:52:58

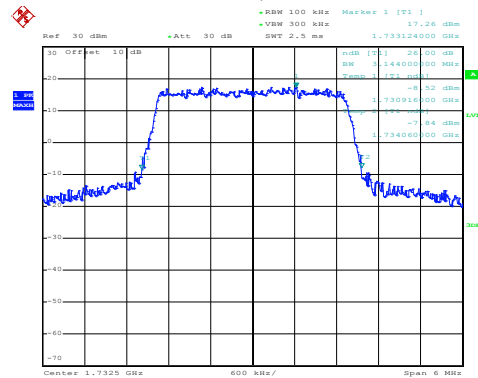
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:53:41

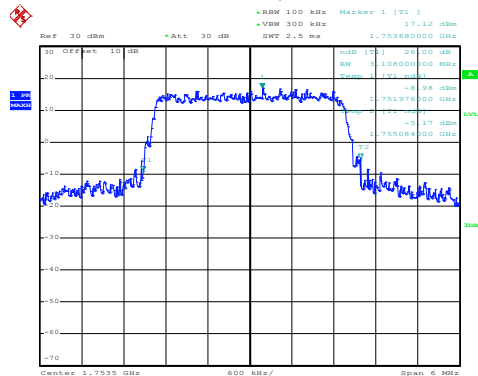
## QPSK



Date: 24.JUN.2020 14:53:38

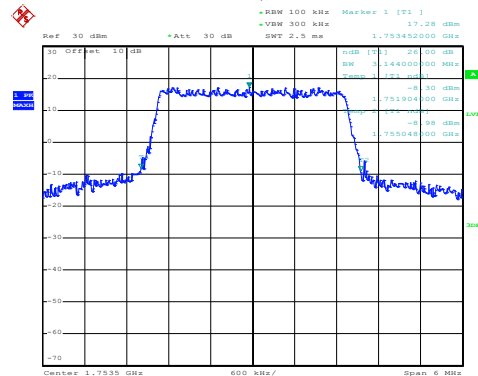
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:54:04

## QPSK



Date: 24.JUN.2020 14:54:01

## Highest channel

16QAM



QPSK



## 16QAM



QPSK



16QAM



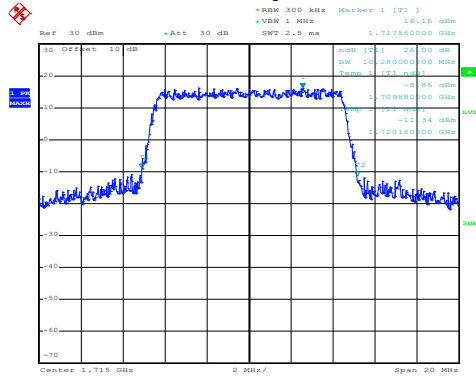
QPSK



## Highest channel

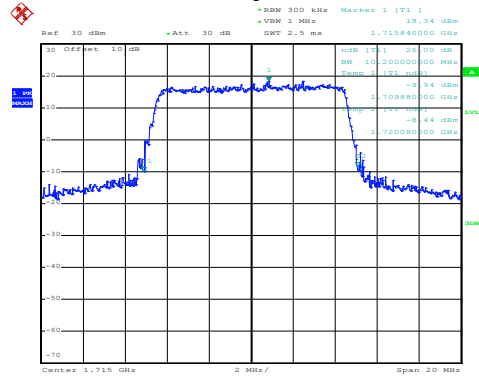
LTE Band 4: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 14:56:40

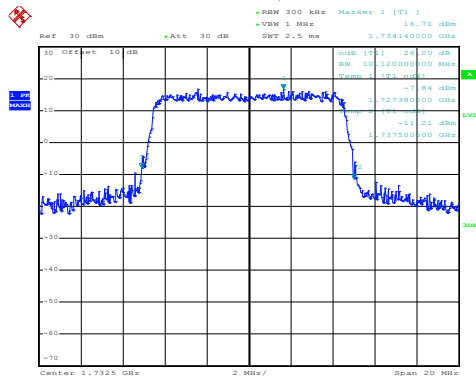
## QPSK



Date: 24.JUN.2020 14:56:37

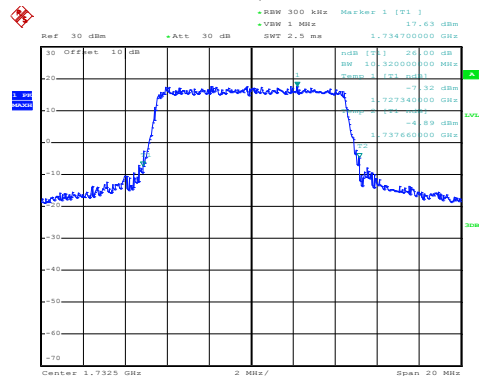
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:57:17

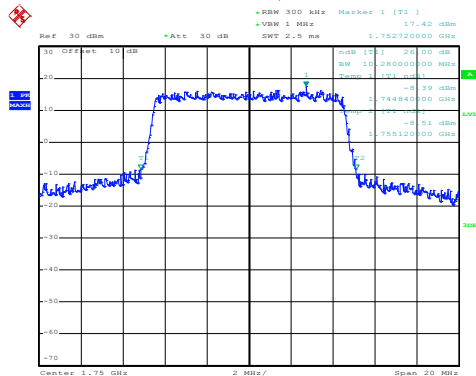
## QPSK



Date: 24.JUN.2020 14:57:14

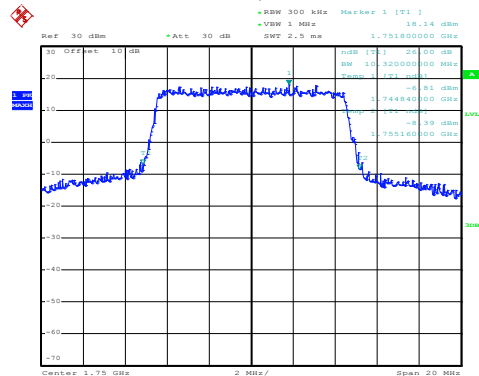
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:57:42

## QPSK

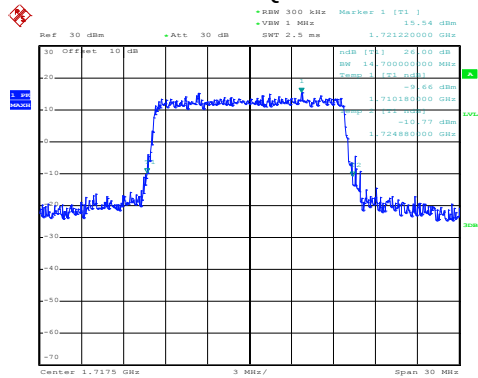


Date: 24.JUN.2020 14:57:38

## Highest channel

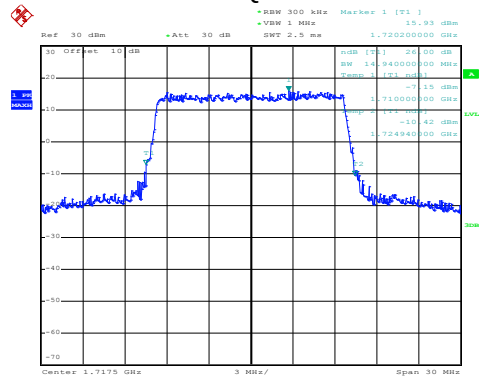
LTE Band 4: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 24.JUN.2020 14:58:27

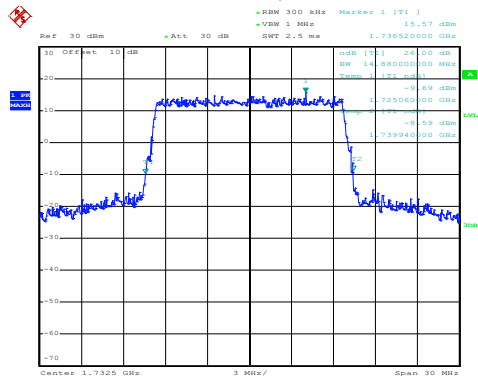
## QPSK



Date: 24.JUN.2020 14:58:24

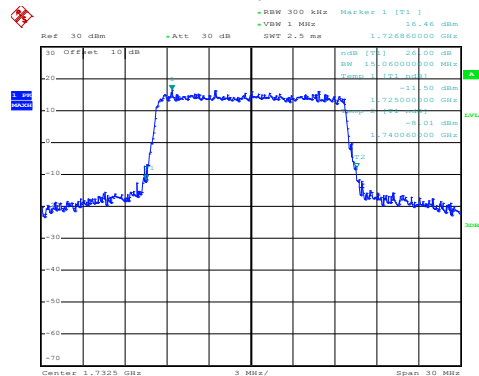
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:58:43

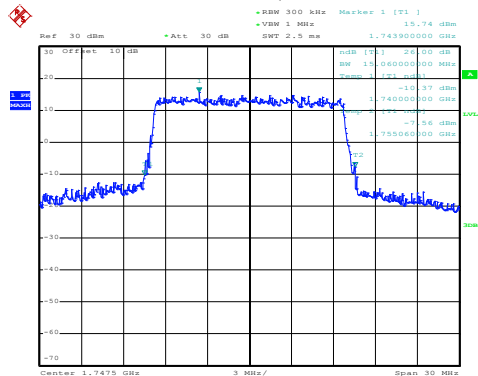
## QPSK



Date: 24.JUN.2020 14:58:39

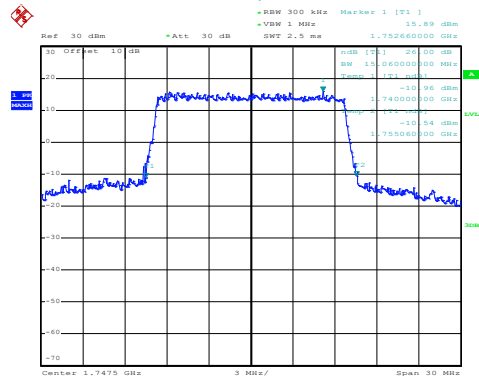
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:59:48

## QPSK

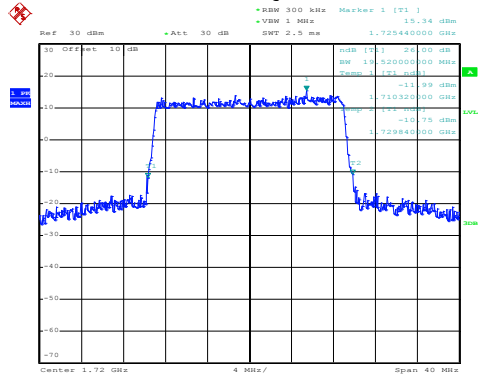


Date: 24.JUN.2020 14:59:44

## Highest channel

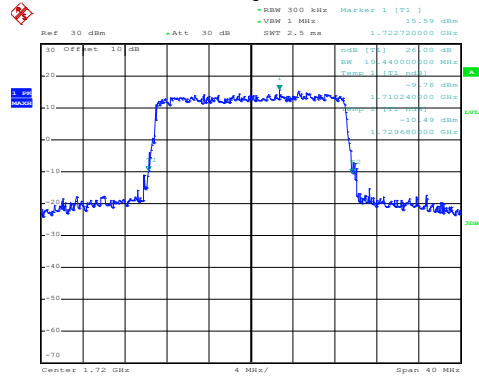
LTE Band 4: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 15:00:18

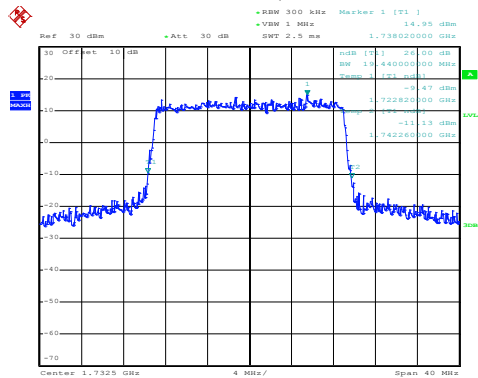
## QPSK



Date: 24.JUN.2020 15:00:13

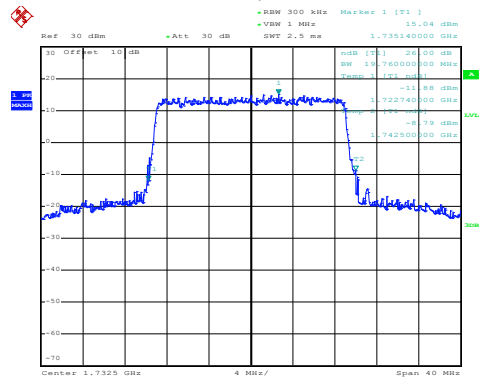
## Lowest channel

## 16QAM



Date: 24.JUN.2020 15:00:53

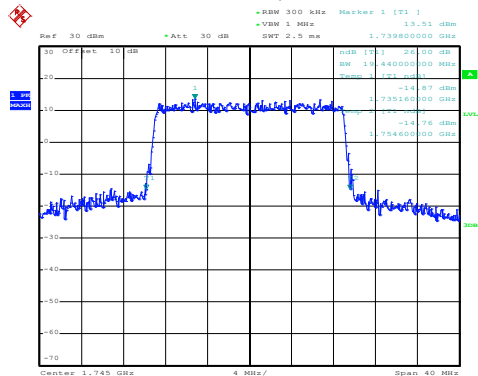
## QPSK



Date: 24.JUN.2020 15:00:48

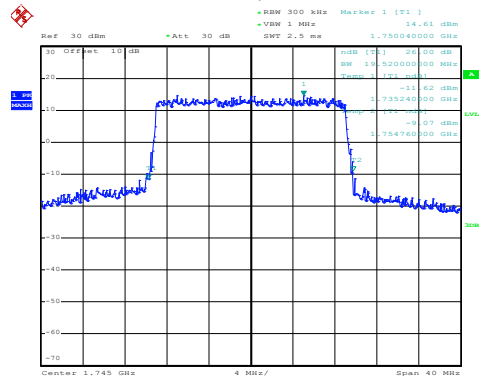
## Middle channel

## 16QAM



Date: 24.JUN.2020 15:01:05

## QPSK



Date: 24.JUN.2020 15:01:02

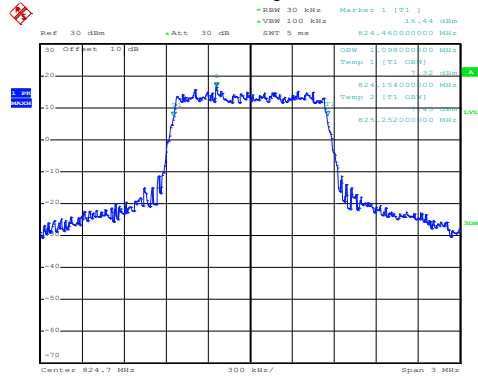
## Highest channel



## LTE Band 5 part:

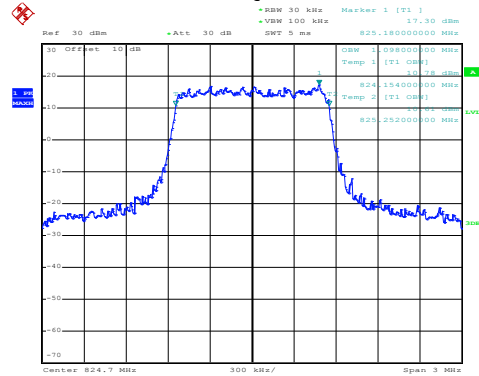
LTE Band 5: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 24.JUN.2020 14:48:51

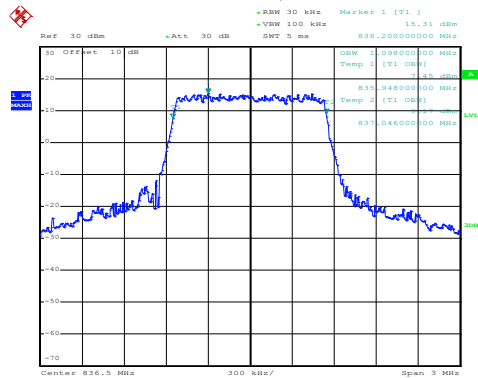
QPSK



Date: 24.JUN.2020 14:48:47

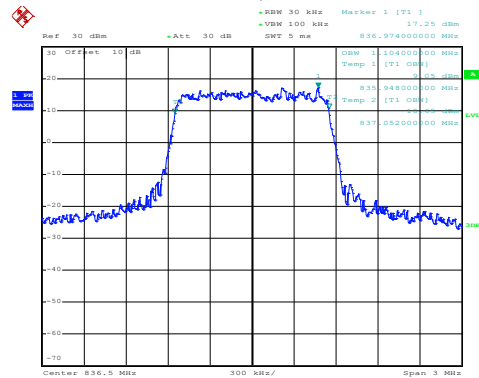
Lowest channel

16QAM



Date: 24.JUN.2020 14:49:08

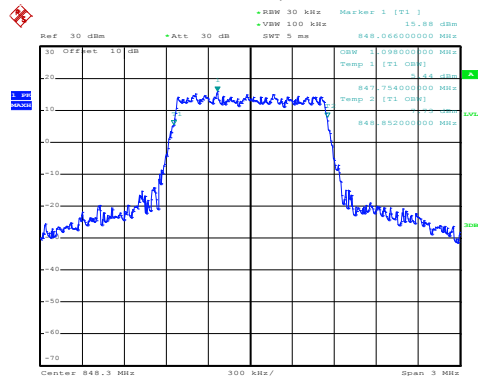
QPSK



Date: 24.JUN.2020 14:49:01

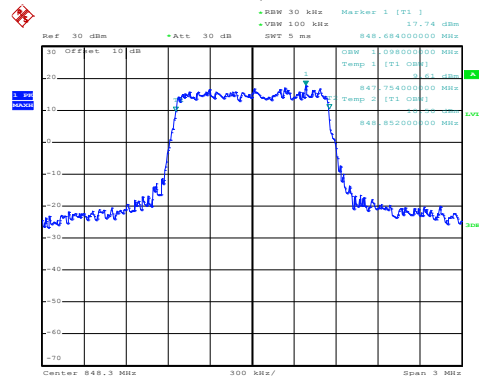
Middle channel

16QAM



Date: 24.JUN.2020 14:49:49

QPSK

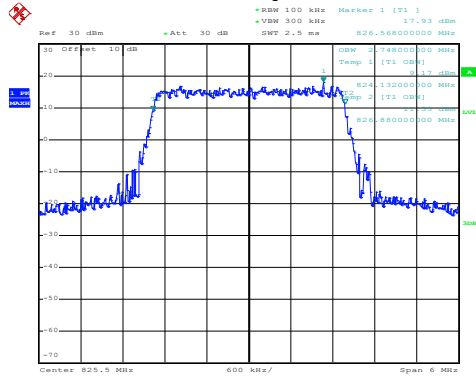


Date: 24.JUN.2020 14:49:45

Highest channel

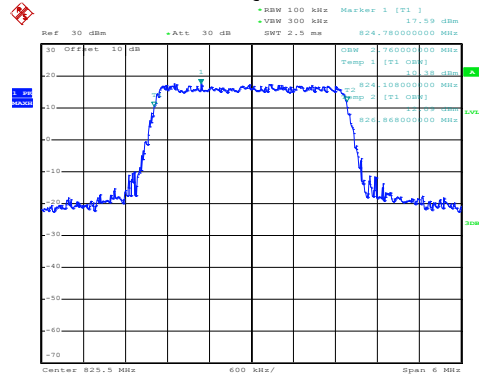
LTE Band 5: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 14:46:49

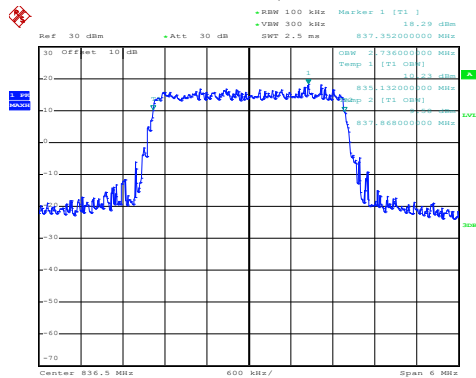
## QPSK



Date: 24.JUN.2020 14:46:45

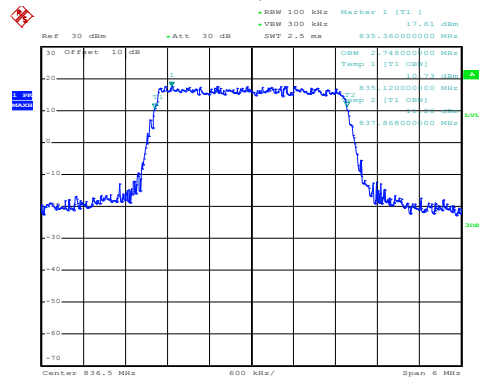
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:47:28

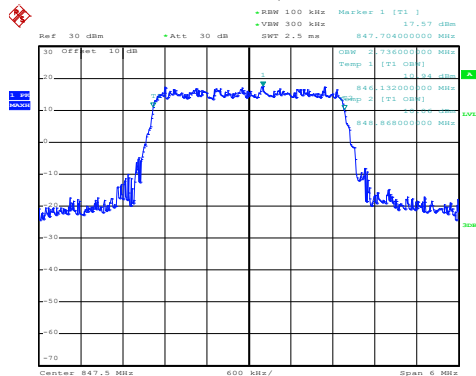
## QPSK



Date: 24.JUN.2020 14:47:24

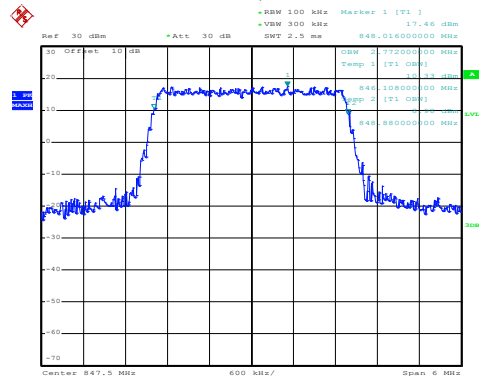
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:47:54

## QPSK

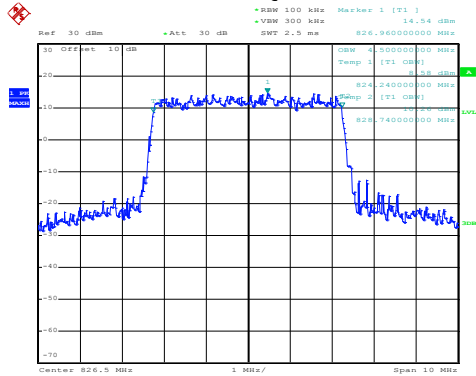


Date: 24.JUN.2020 14:47:48

## Highest channel

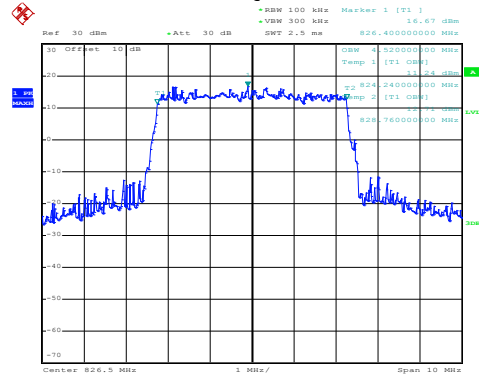
LTE Band 5: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 14:44:41

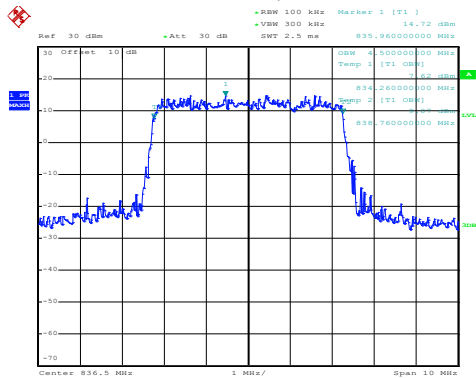
## QPSK



Date: 24.JUN.2020 14:44:37

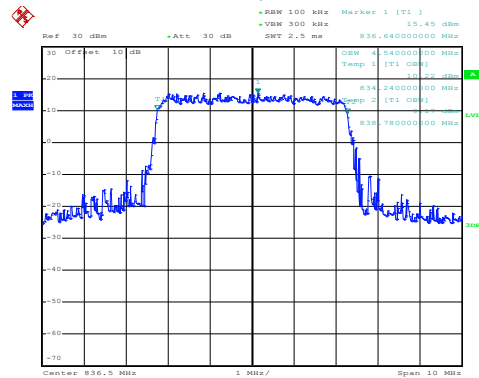
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:44:54

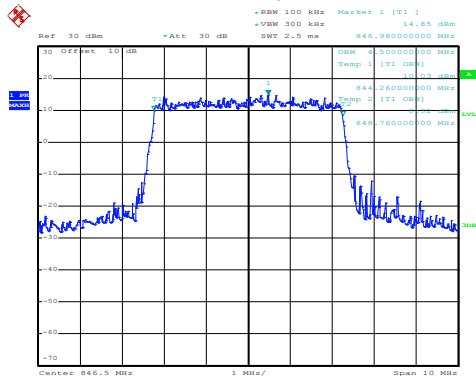
## QPSK



Date: 24.JUN.2020 14:44:50

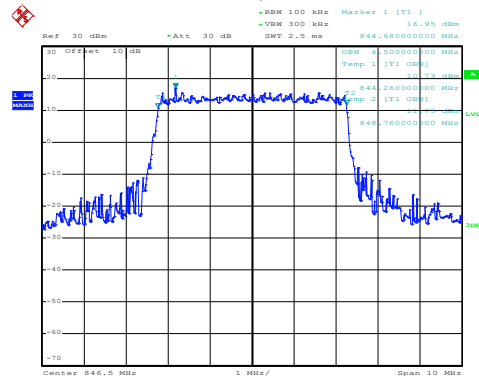
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:45:40

## QPSK

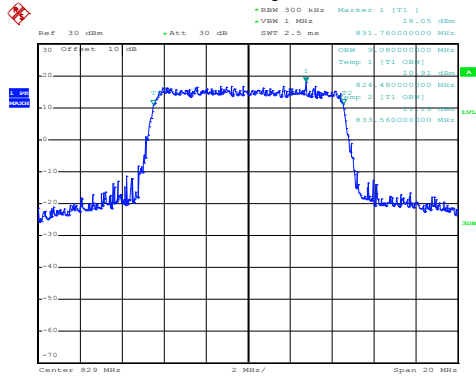


Date: 24.JUN.2020 14:45:36

## Highest channel

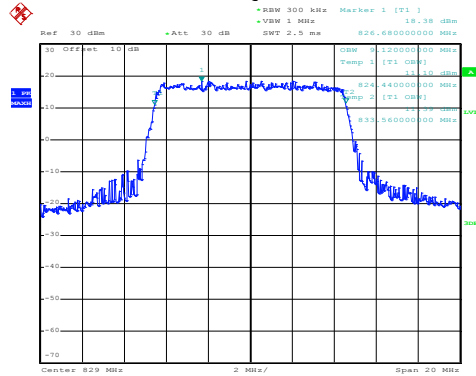
LTE Band 5: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 14:42:36

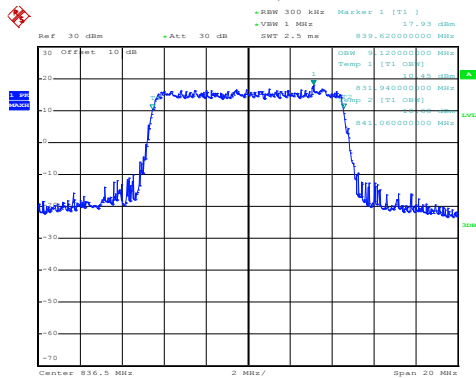
## QPSK



Date: 24.JUN.2020 14:42:31

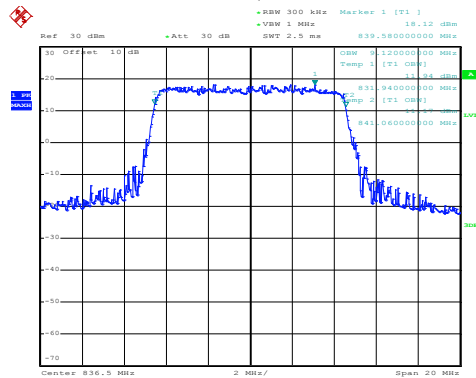
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:43:14

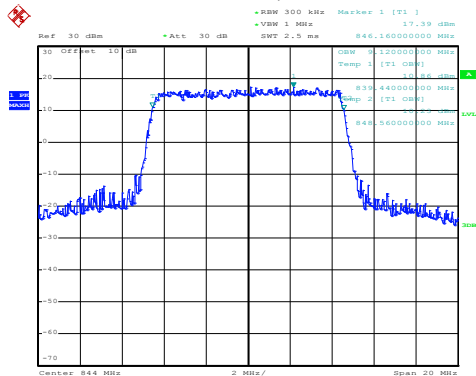
## QPSK



Date: 24.JUN.2020 14:43:10

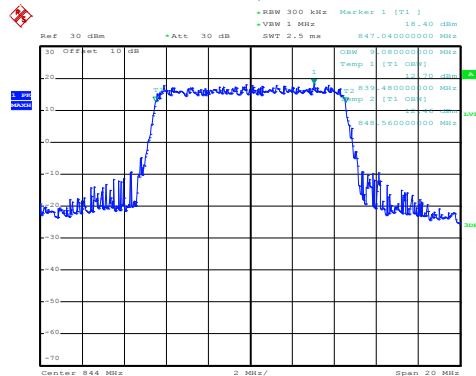
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:43:34

## QPSK

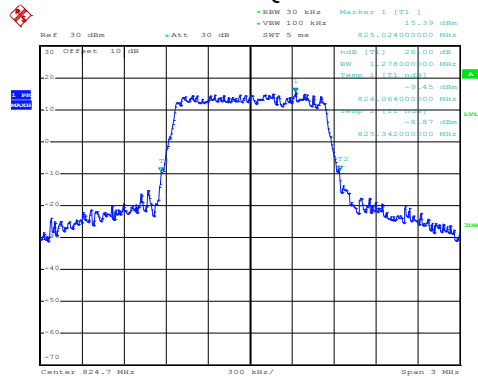


Date: 24.JUN.2020 14:43:29

## Highest channel

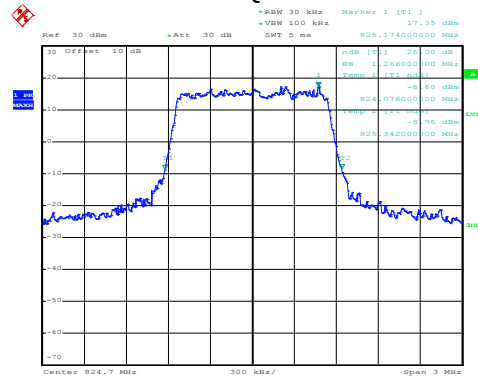
LTE Band 5: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 24.JUN.2020 14:48:38

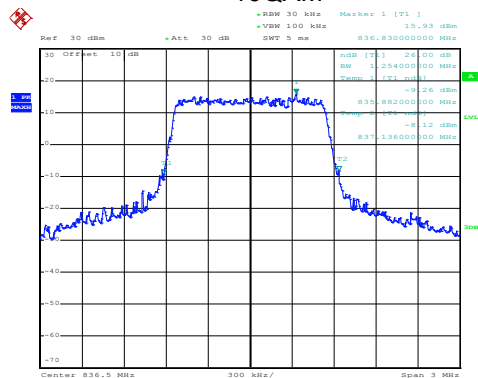
## QPSK



Date: 24.JUN.2020 14:48:34

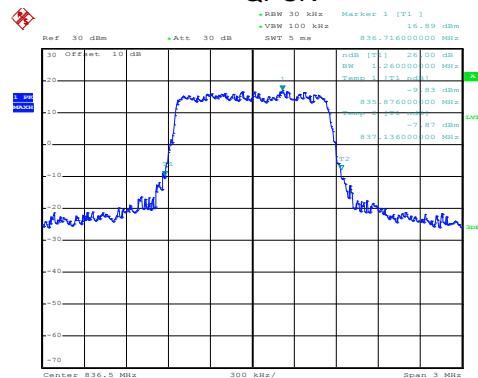
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:49:20

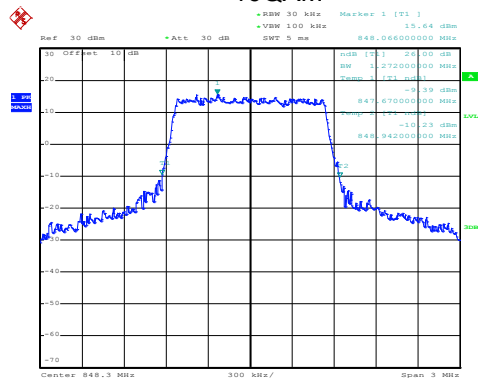
## QPSK



Date: 24.JUN.2020 14:49:15

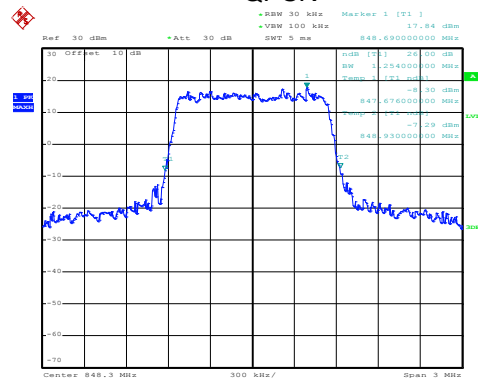
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:49:39

## QPSK

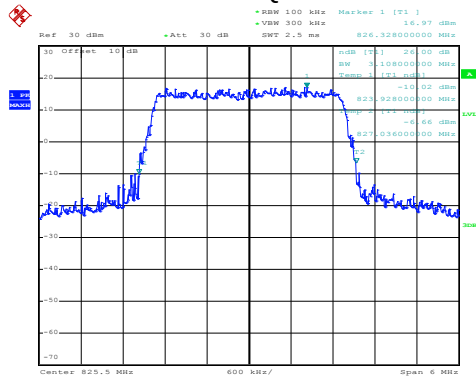


Date: 24.JUN.2020 14:49:32

## Highest channel

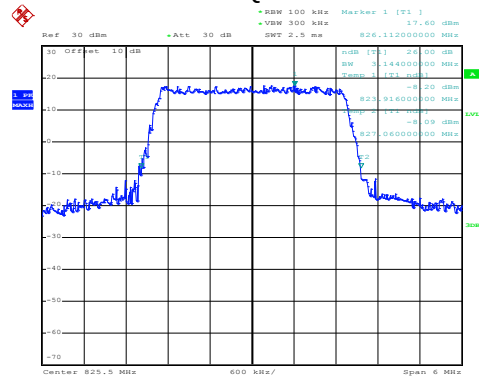
LTE Band 5: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 14:46:59

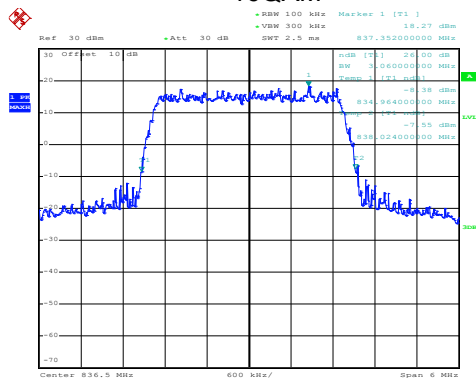
## QPSK



Date: 24.JUN.2020 14:46:55

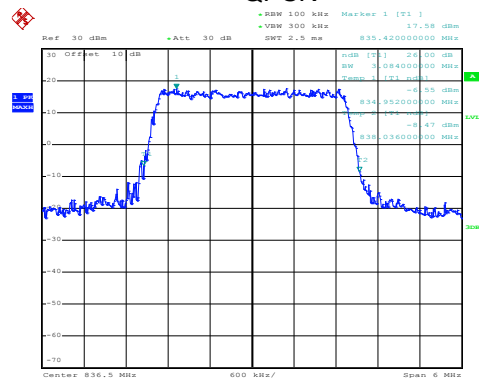
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:47:17

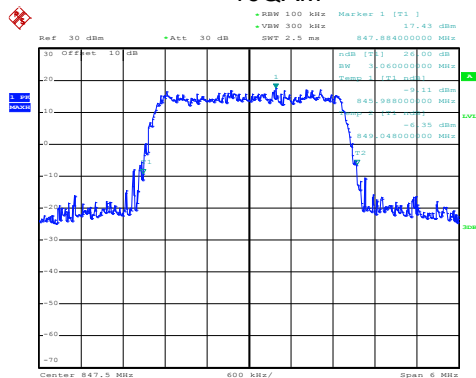
## QPSK



Date: 24.JUN.2020 14:47:13

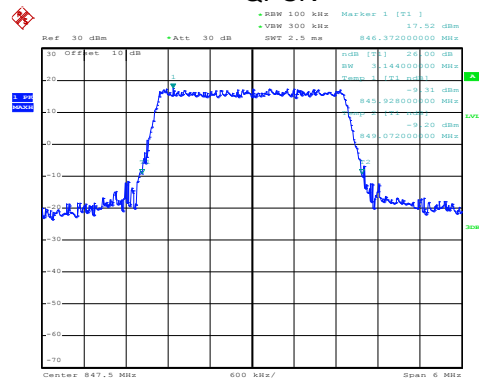
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:48:04

## QPSK

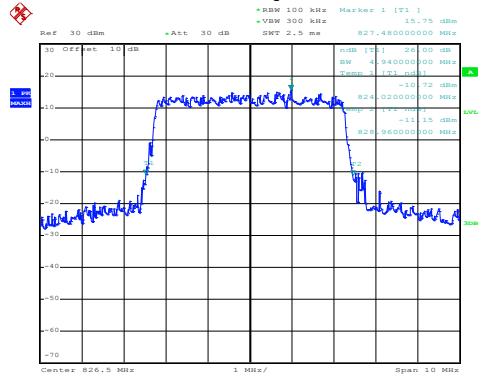


Date: 24.JUN.2020 14:48:01

## Highest channel

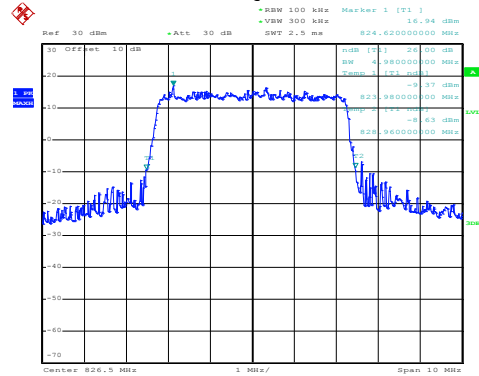
LTE Band 5: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 14:44:31

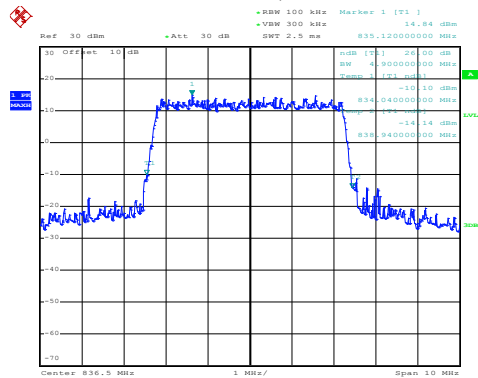
## QPSK



Date: 24.JUN.2020 14:44:26

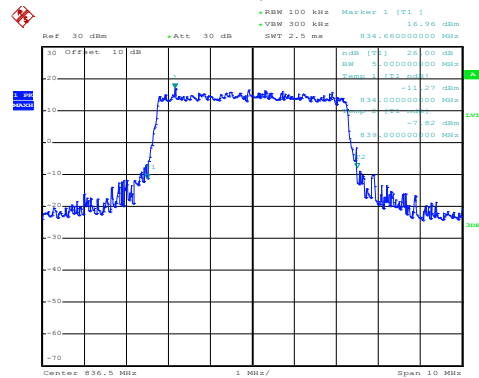
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:45:09

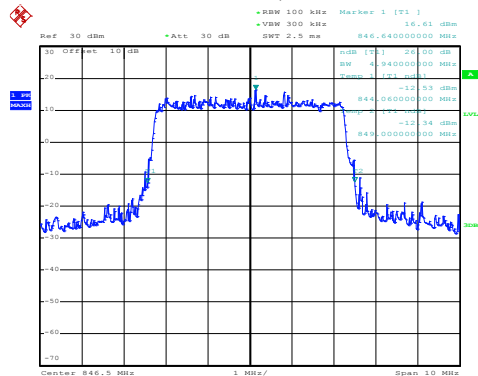
## QPSK



Date: 24.JUN.2020 14:45:06

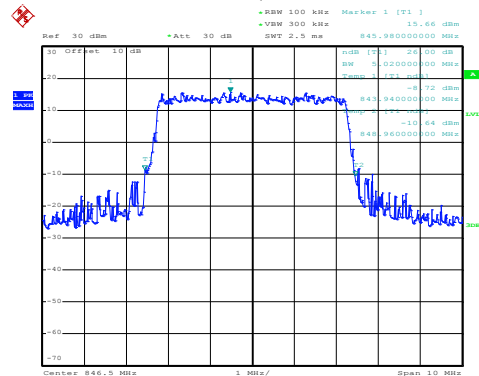
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:45:30

## QPSK

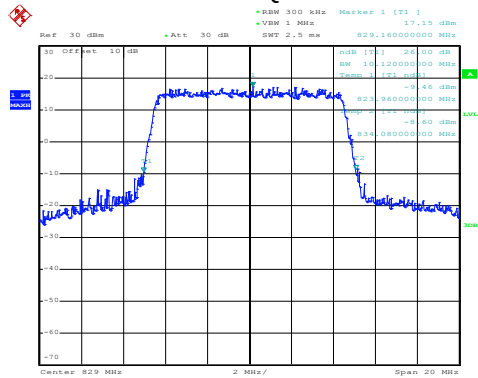


Date: 24.JUN.2020 14:45:26

## Highest channel

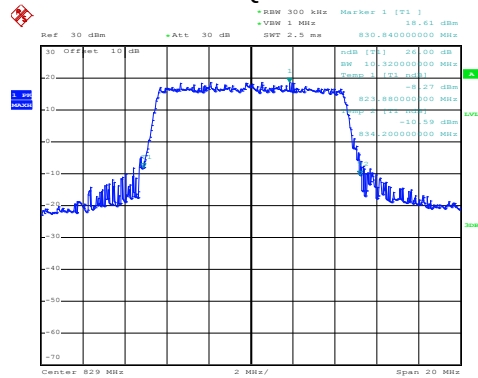
LTE Band 5: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 14:42:46

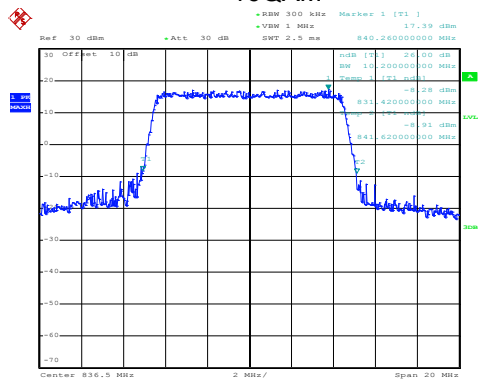
## QPSK



Date: 24.JUN.2020 14:42:42

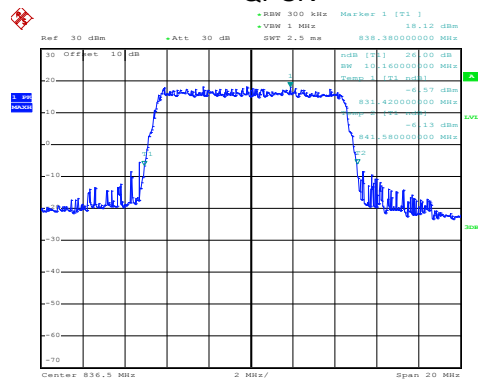
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:43:02

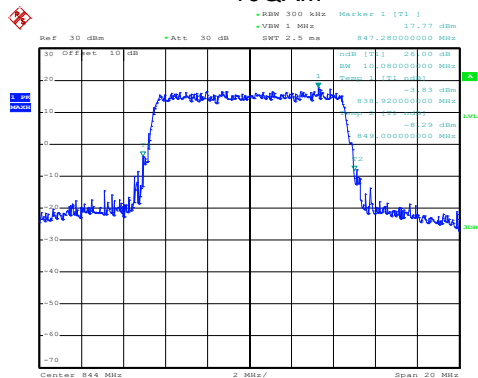
## QPSK



Date: 24.JUN.2020 14:42:57

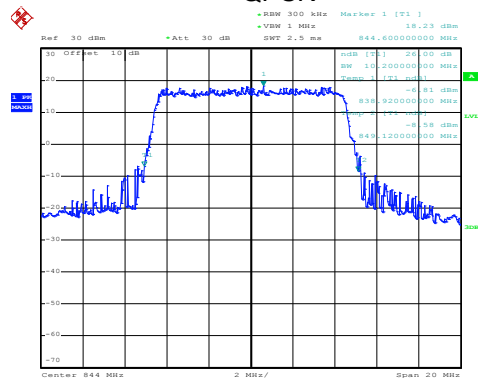
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:43:44

## QPSK



Date: 24.JUN.2020 14:43:41

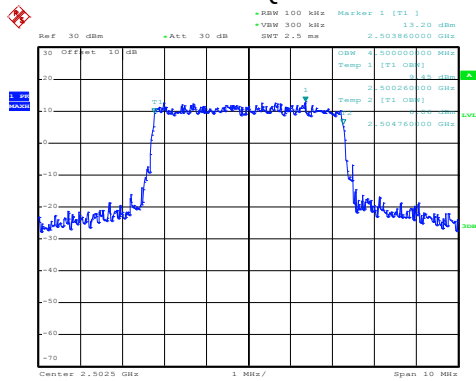
## Highest channel



## LTE-Band 7 part:

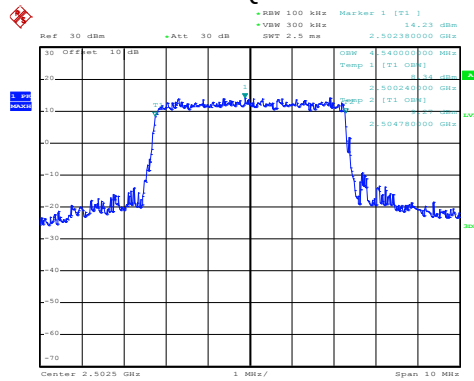
LTE Band 7: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 12:52:05

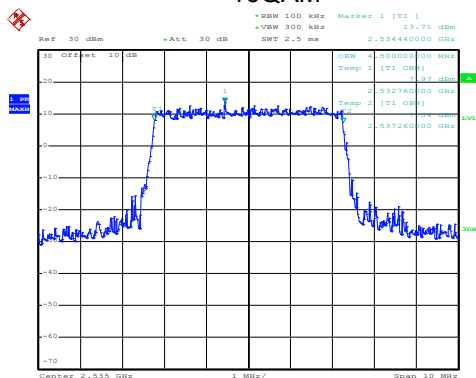
## QPSK



Date: 24.JUN.2020 12:52:02

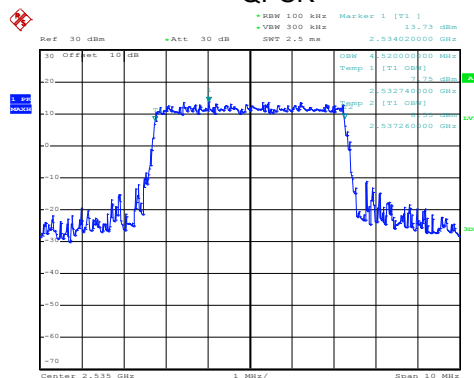
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:52:19

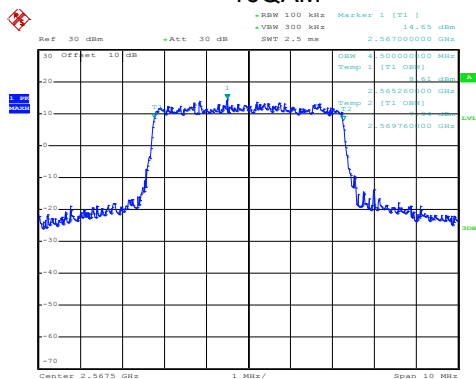
## QPSK



Date: 24.JUN.2020 12:52:15

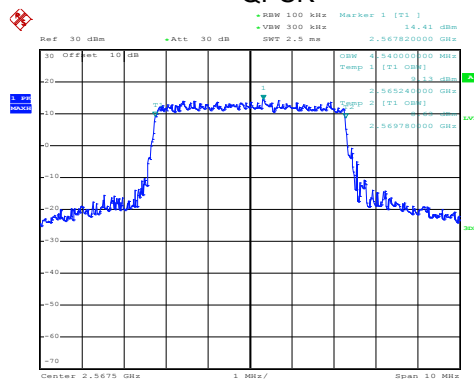
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:53:03

## QPSK



Date: 24.JUN.2020 12:52:56

## Highest channel

16QAM



Date: 24.JUN.2020 12:50:08

## 16QAM



Date: 24.JUN.2020 12:50:50

16QAM

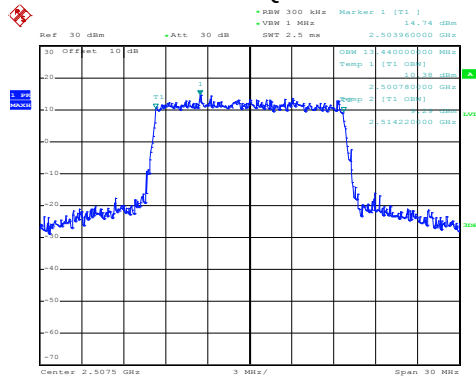


Date: 24.JUN.2020 12:51:03

## Page 74 of

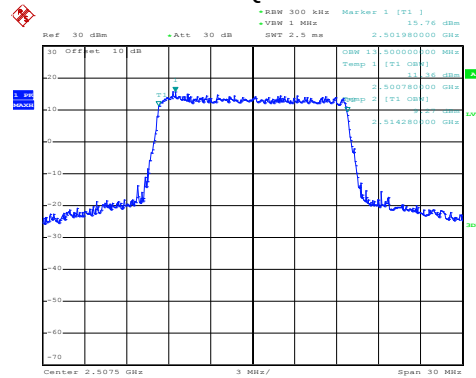
LTE Band 7: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 24.JUN.2020 12:48:49

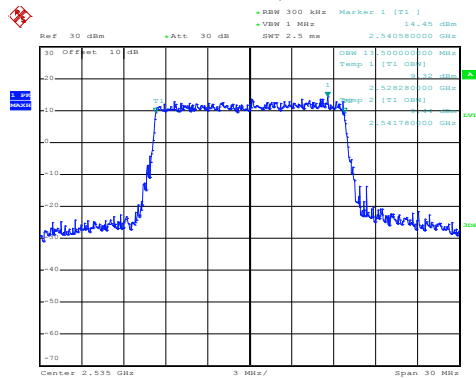
## QPSK



Date: 24.JUN.2020 12:48:46

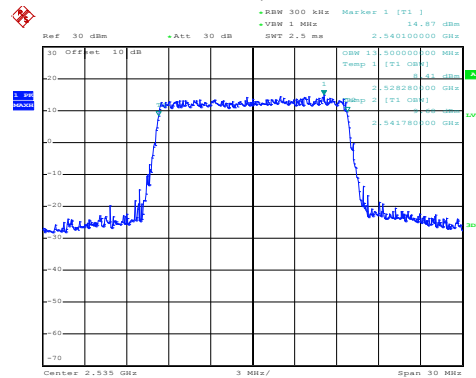
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:49:03

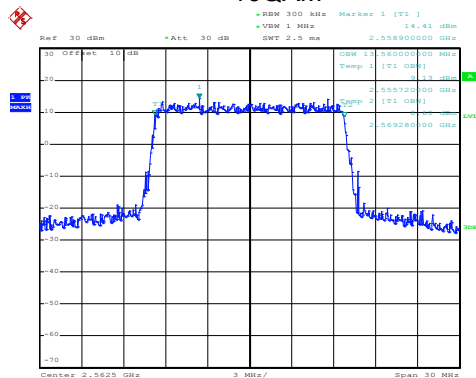
## QPSK



Date: 24.JUN.2020 12:48:59

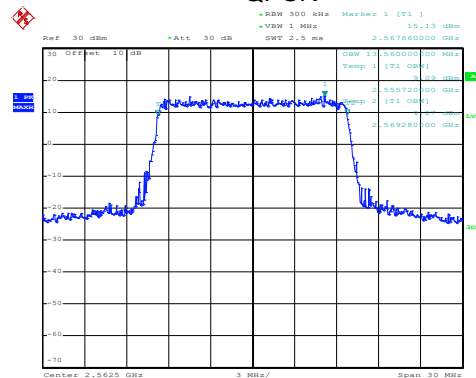
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:49:47

## QPSK

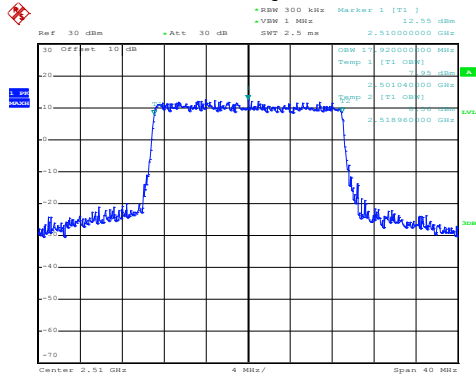


Date: 24.JUN.2020 12:49:44

## Highest channel

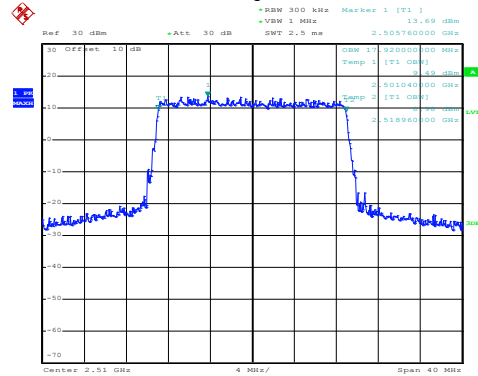
LTE Band 7: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 12:47:58

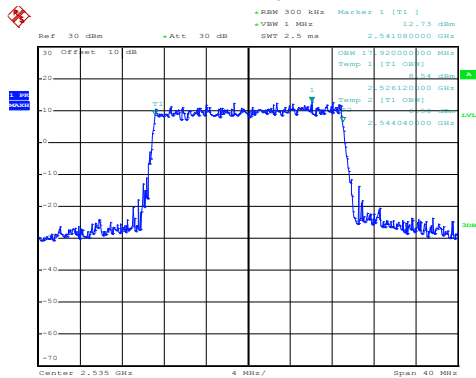
## QPSK



Date: 24.JUN.2020 12:47:54

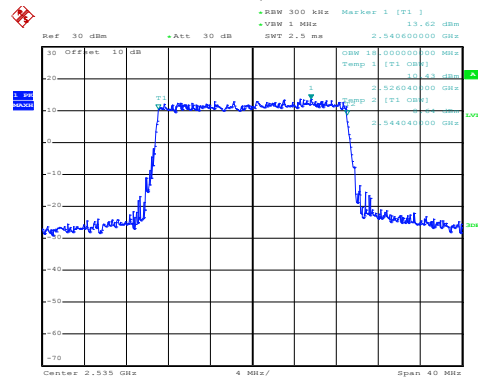
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:47:35

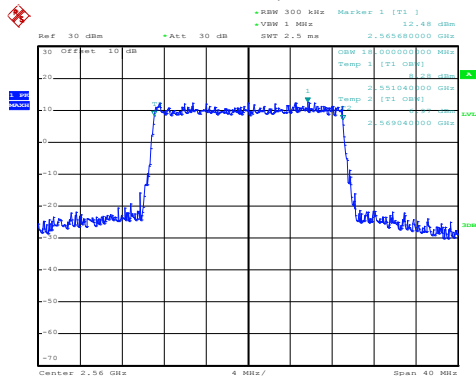
## QPSK



Date: 24.JUN.2020 12:47:32

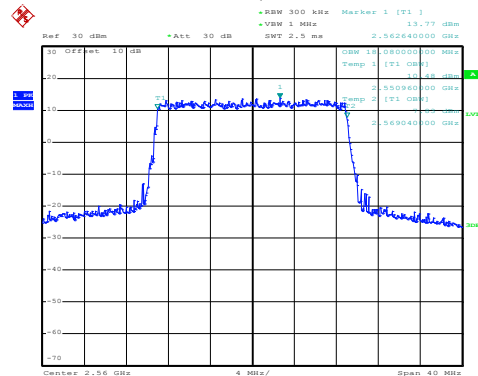
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:46:49

## QPSK

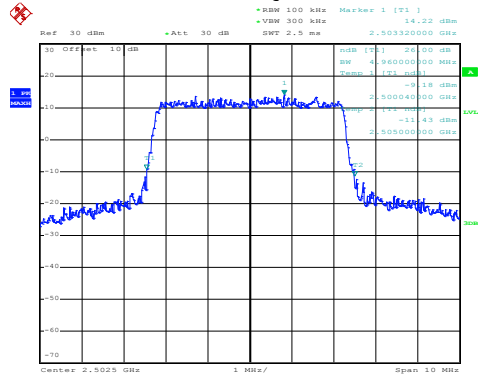


Date: 24.JUN.2020 12:46:45

## Highest channel

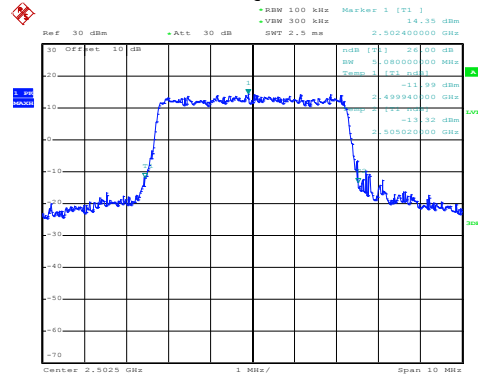
LTE Band 7: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 12:51:56

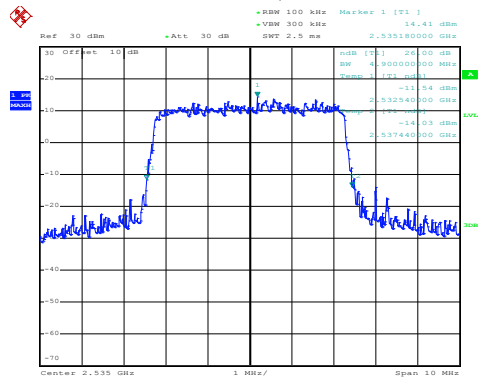
## QPSK



Date: 24.JUN.2020 12:51:49

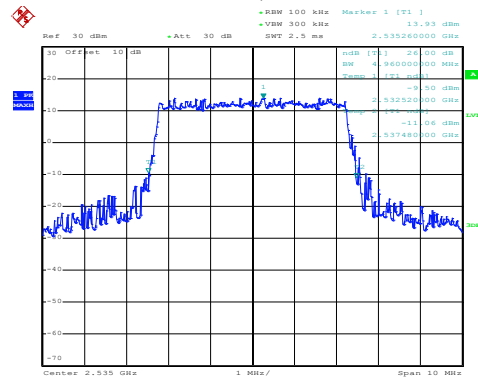
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:52:30

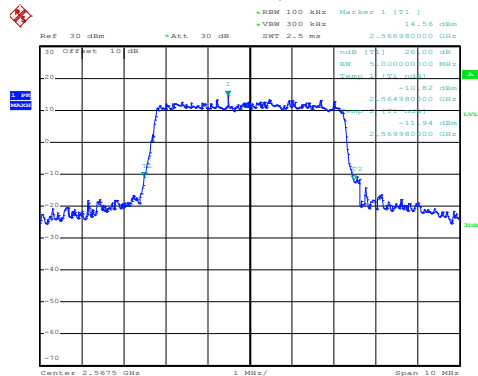
## QPSK



Date: 24.JUN.2020 12:52:26

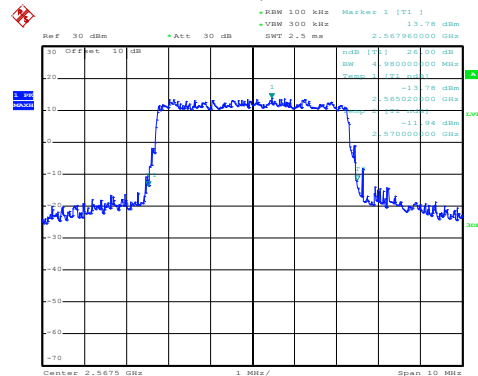
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:52:49

## QPSK

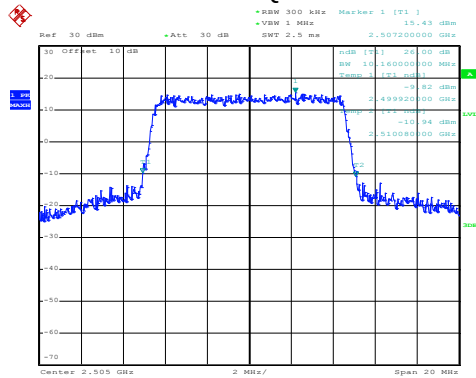


Date: 24.JUN.2020 12:52:42

## Highest channel

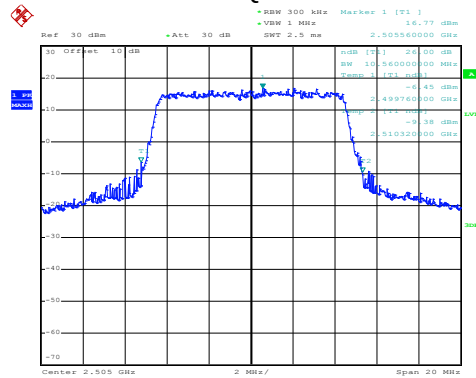
LTE Band 7: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 24.JUN.2020 12:50:26

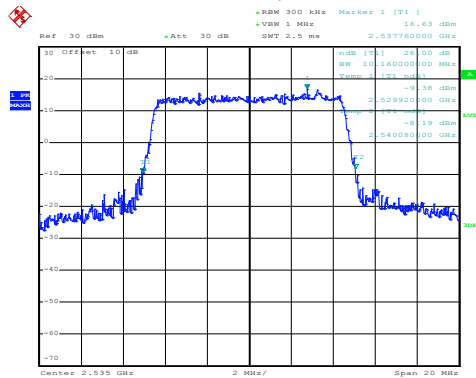
## QPSK



Date: 24.JUN.2020 12:50:22

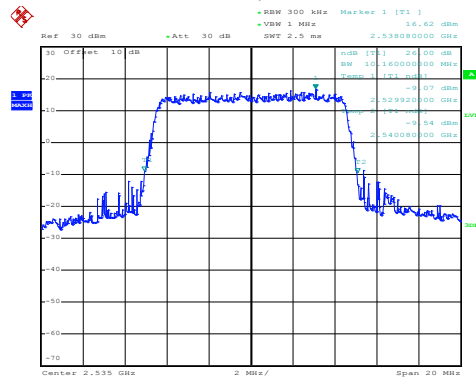
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:50:43

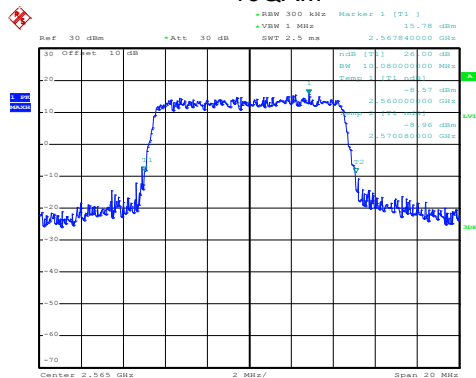
## QPSK



Date: 24.JUN.2020 12:50:36

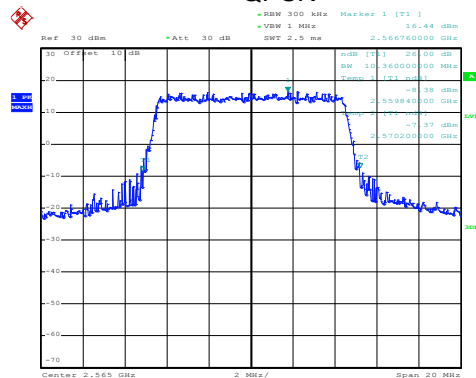
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:51:17

## QPSK

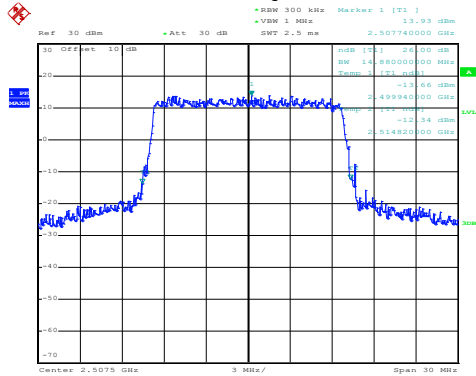


Date: 24.JUN.2020 12:51:14

## Highest channel

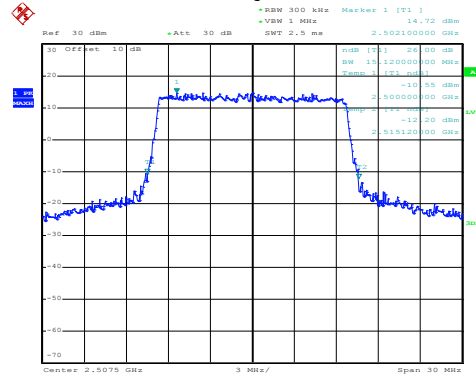
LTE Band 7: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 24.JUN.2020 12:48:38

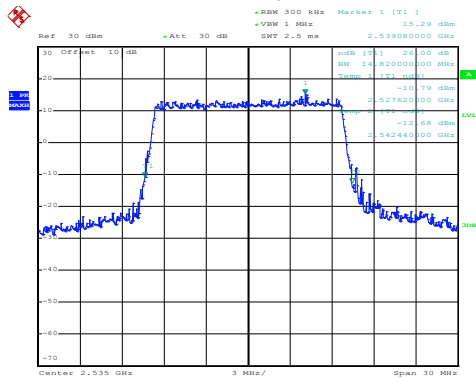
## QPSK



Date: 24.JUN.2020 12:48:34

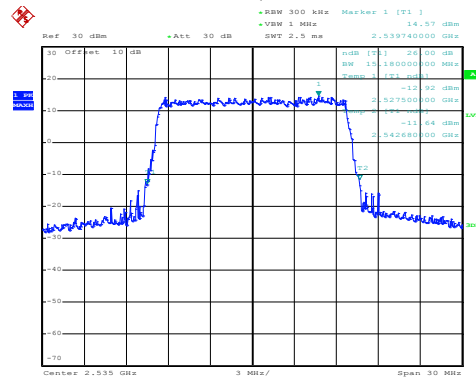
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:49:19

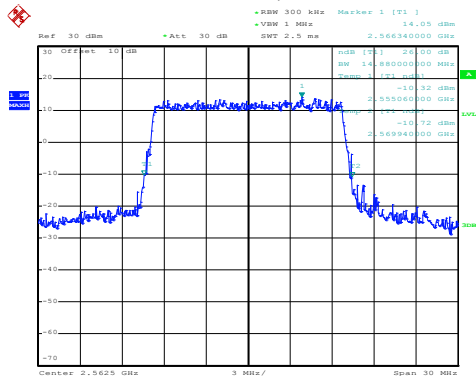
## QPSK



Date: 24.JUN.2020 12:49:11

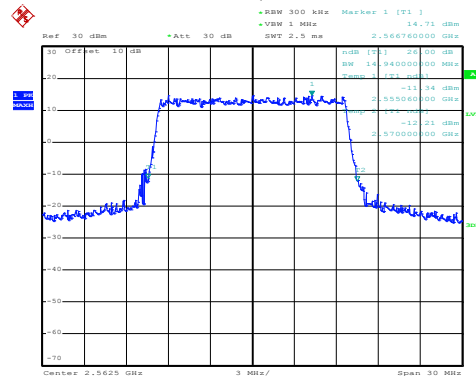
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:49:36

## QPSK

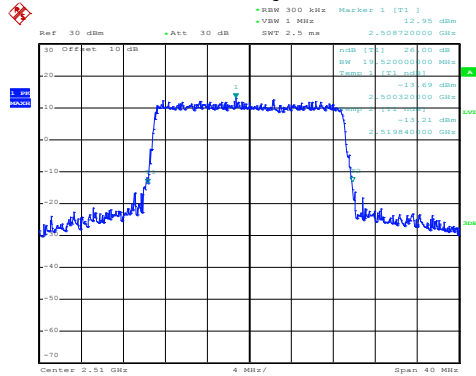


Date: 24.JUN.2020 12:49:32

## Highest channel

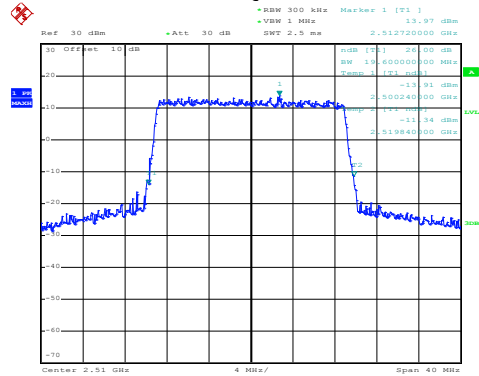
LTE Band 7: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 24.JUN.2020 12:48:10

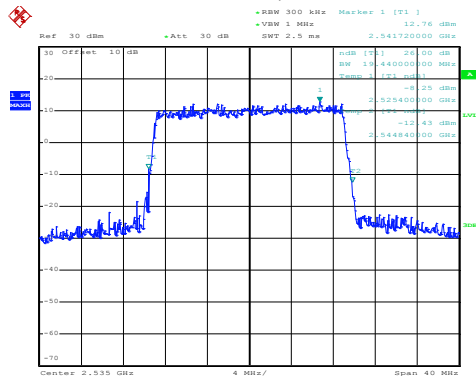
## QPSK



Date: 24.JUN.2020 12:48:05

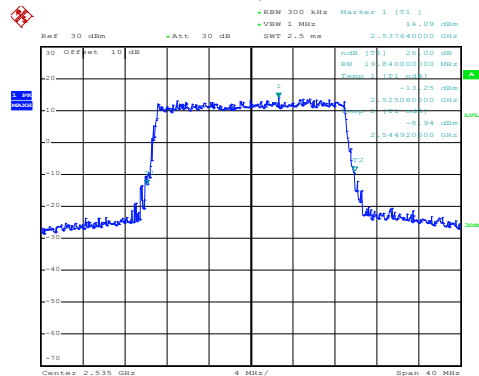
## Lowest channel

## 16QAM



Date: 24.JUN.2020 12:47:24

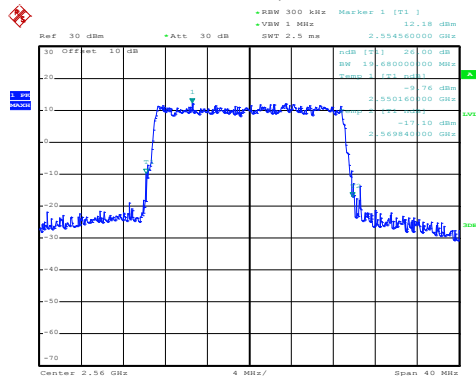
## QPSK



Date: 24.JUN.2020 12:47:21

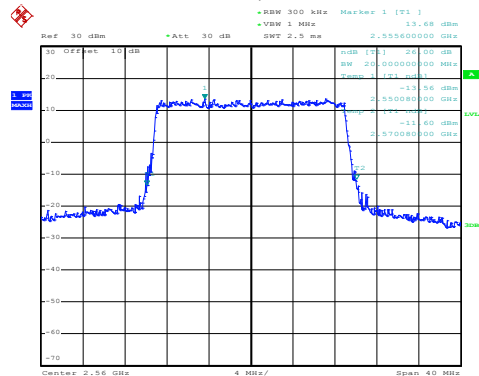
## Middle channel

## 16QAM



Date: 24.JUN.2020 12:47:07

## QPSK

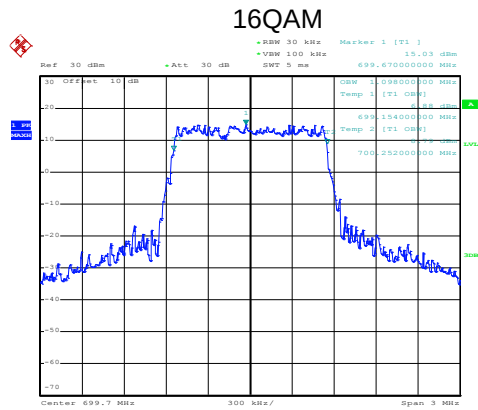


Date: 24.JUN.2020 12:47:04

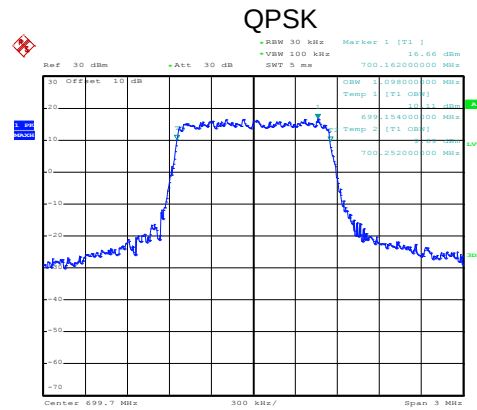
## Highest channel



## LTE Band 12 part:

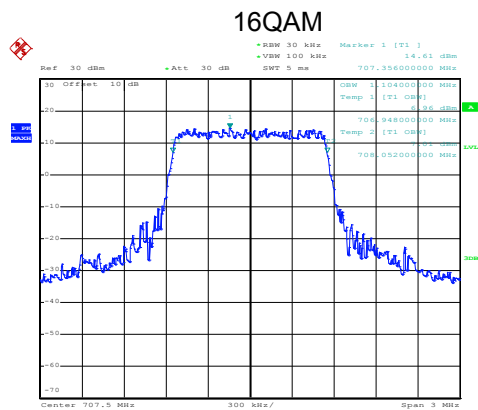
LTE Band 12: 99% Occupy bandwidth  
BW: 1.4MHz

Date: 24.JUN.2020 14:35:48

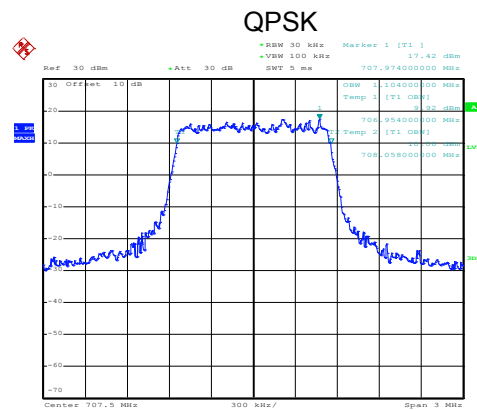


Date: 24.JUN.2020 14:35:43

## Lowest channel

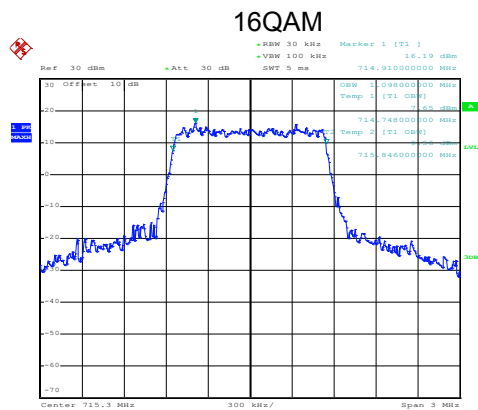


Date: 24.JUN.2020 14:36:35

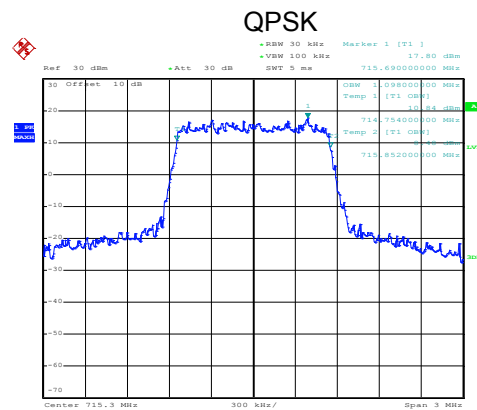


Date: 24.JUN.2020 14:36:32

## Middle channel



Date: 24.JUN.2020 14:36:53

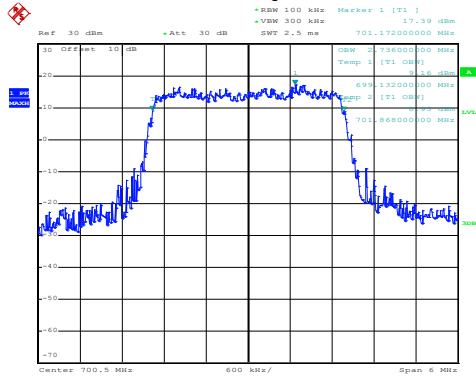


Date: 24.JUN.2020 14:36:49

## Highest channel

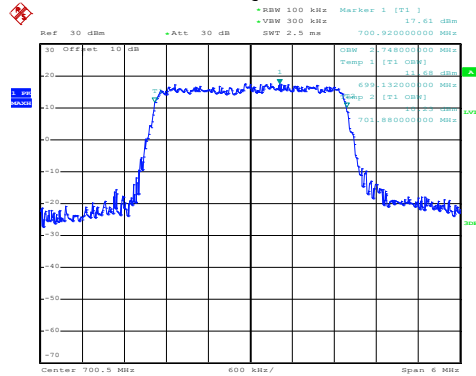
LTE Band 12: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 24.JUN.2020 14:37:57

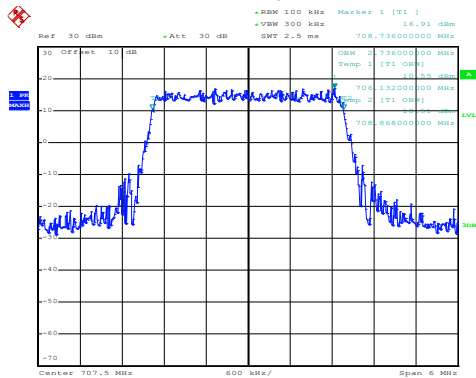
## QPSK



Date: 24.JUN.2020 14:37:53

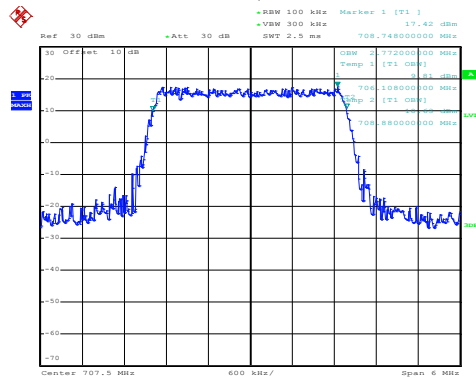
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:38:09

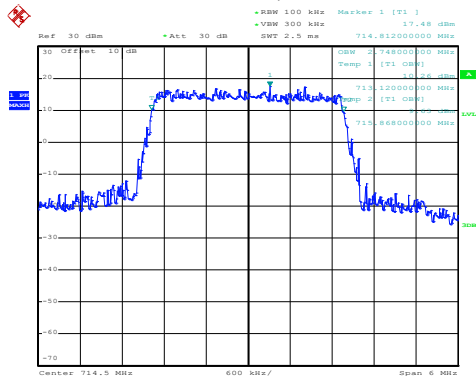
## QPSK



Date: 24.JUN.2020 14:38:06

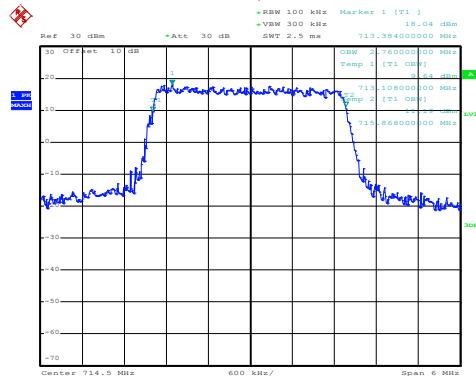
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:38:51

## QPSK

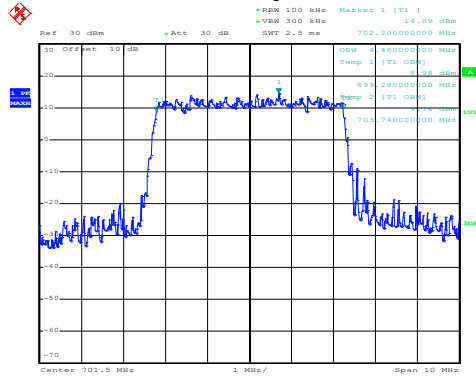


Date: 24.JUN.2020 14:38:45

## Highest channel

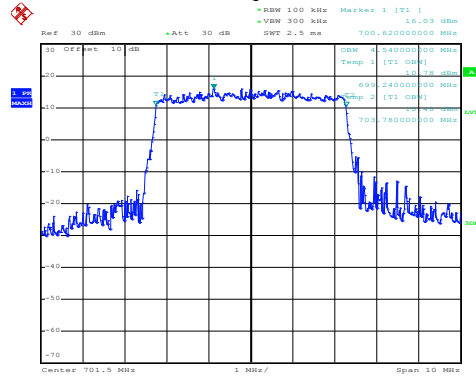
LTE Band 12: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 24.JUN.2020 14:39:16

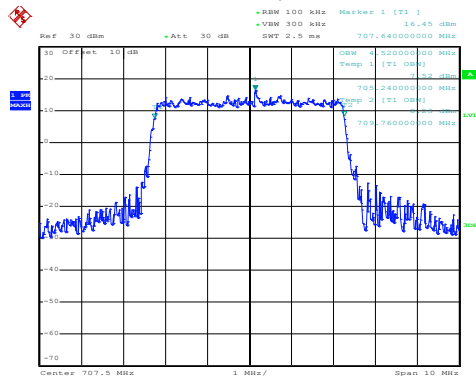
## QPSK



Date: 24.JUN.2020 14:39:13

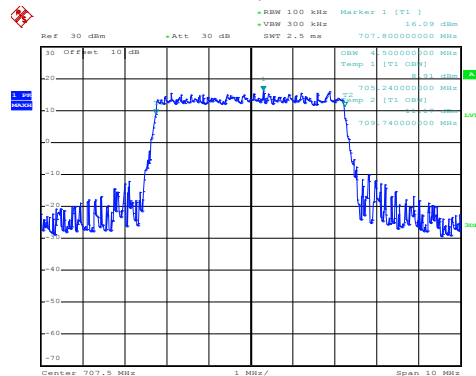
## Lowest channel

## 16QAM



Date: 24.JUN.2020 14:39:55

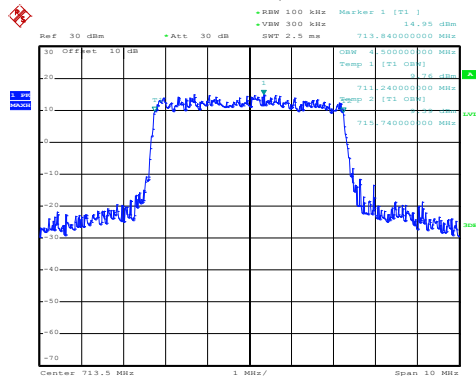
## QPSK



Date: 24.JUN.2020 14:39:48

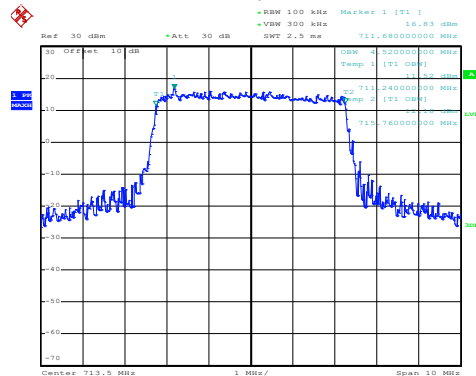
## Middle channel

## 16QAM



Date: 24.JUN.2020 14:40:15

## QPSK



Date: 24.JUN.2020 14:40:11

## Highest channel