

# FCC REPORT

## (LTE)

**Applicant:** SHENZHEN GOTRON ELECTRONIC CO., LTD

**Address of Applicant:** Rm 24B, Block C of Electronic & Technology Building, 2070  
ShenNan Middle Road, Shenzhen, China

**Equipment Under Test (EUT)**

Product Name: Ulefone Mobile Phone

Model No.: Armor 2, Armor 2X, Armor 2S

Trade mark: ulefone

**FCC ID:** SW9ARMOR2

**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 H

**Date of sample receipt:** 21 Jun., 2017

**Date of Test:** 21 Jun., to 12 Jul., 2017

**Date of report issued:** 12 Jul., 2017

**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          | 12 Jul., 2017 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested by:



Test Engineer

Date:

12 Jul., 2017

Reviewed by:



Project Engineer

Date:

12 Jul., 2017

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## 4. Test Summary

| Test Item                              | 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)(2)<br>Part 24.232 (c)<br>Part 27.50 (c)(10)<br>Part 27.50 (d)(4)<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                                   |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<br>Part 27.53(m)                | Pass                                   |
| Field Strength of Spurious Radiation   | 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(m)                | Pass                                   |
| Out of band emission, Band Edge        | Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<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)(1)(2)                                                     | Pass                                   |

Pass: The EUT complies with the essential requirements in the standard.

## 5. General Information

### 5.1 Client Information

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Applicant:               | SHENZHEN GOTRON ELECTRONIC CO., LTD                                                            |
| Address of Applicant:    | Rm 24B, Block C of Electronic & Technology Building, 2070 ShenNan Middle Road, Shenzhen, China |
| Manufacturer             | SHENZHEN GOTRON ELECTRONIC CO., LTD                                                            |
| Address of Manufacturer: | Rm 24B, Block C of Electronic & Technology Building, 2070 ShenNan Middle Road, Shenzhen, China |

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

|                            |                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:              | Ulefone Mobile Phone                                                                                                                                                                                                                                                                                                                  |
| Model No.:                 | Armor 2, Armor 2X, Armor 2S                                                                                                                                                                                                                                                                                                           |
| 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 17: TX: 704MHz -716MHz, RX: 734MHz-746MHz |
| Modulation type:           | QPSK, 16QAM                                                                                                                                                                                                                                                                                                                           |
| Antenna type:              | Internal Antenna                                                                                                                                                                                                                                                                                                                      |
| Antenna gain:              | LTE Band 2: 2.15dBi<br>LTE Band 4: 2.15dBi<br>LTE Band 5: 2.15dBi<br>LTE Band 7: 2.15dBi<br>LTE Band 12: 2.15dBi<br>LTE Band 17: 2.15dBi                                                                                                                                                                                              |
| Power supply:              | Rechargeable Li-ion Battery DC3.8V-4700mAh                                                                                                                                                                                                                                                                                            |
| AC adapter:                | Model: APS-KI018WU-G<br>Input: AC100-240V 50/60Hz 0.5A<br>Output: DC 5V/7V/9V, 2000mA,<br>DC 12V, 1500mA                                                                                                                                                                                                                              |
| Remark:                    | The No.: Armor 2, Armor 2X, Armor 2S were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.                                                                                                                                                        |

**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          |
| 20525              | 836.60          | 20525             | 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          |
| 20525              | 836.60          | 20525             | 836.60          |
| ...                | ...             | ...               | ...             |
| 20624              | 846.40          | 20599             | 843.90          |
| 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          |
| 23018               | 699.80          | 23026              | 700.60          |
| ....                | ....            | ....               | ....            |
| 23094               | 707.40          | 23094              | 707.40          |
| 23095               | 707.50          | 23095              | 707.50          |
| 23096               | 707.60          | 23096              | 707.60          |
| ...                 | ...             | ...                | ...             |
| 23174               | 715.20          | 23164              | 714.40          |
| 23175               | 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 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     | 23175 | 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 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 modes

|                                |                                                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data mode (LTE band 2(QPSK))   | Keep the EUT in data communicating mode on LTE band 2(QPSK).<br>(LTE band2(1.4MHz), LTE band2(3MHz), LTE band2(5MHz),<br>LTE band2(10MHz), LTE band2(15MHz), LTE band2(20MHz))        |
| Data mode (LTE band 2(16QAM))  | Keep the EUT in data communicating mode on LTE band 2(16QAM).<br>(LTE band2(1.4MHz), LTE band2(3MHz), LTE band2(5MHz),<br>LTE band2(10MHz), LTE band2(15MHz), LTE band2(20MHz))       |
| Data mode (LTE band 4(QPSK))   | Keep the EUT in data communicating mode on LTE band 4(QPSK).<br>(LTE band 4(1.4MHz), LTE band 4(3MHz), LTE band 4(5MHz),<br>LTE band 4(10MHz), LTE band 4(15MHz), LTE band 4(20MHz))  |
| Data mode (LTE band 4(16QAM))  | Keep the EUT in data communicating mode on LTE band 4(16QAM).<br>(LTE band 4(1.4MHz), LTE band 4(3MHz), LTE band 4(5MHz),<br>LTE band 4(10MHz), LTE band 4(15MHz), LTE band 4(20MHz)) |
| Data mode (LTE band 5(QPSK))   | Keep the EUT in data communicating mode on LTE band5(QPSK).<br>(LTE band5(1.4MHz), LTE band5(3MHz), LTE band5(5MHz),<br>LTE band5(10MHz))                                             |
| Data mode (LTE band 5(16QAM))  | Keep the EUT in data communicating mode on LTE band5(16QAM).<br>(LTE band5(1.4MHz), LTE band5(3MHz), LTE band5(5MHz),<br>LTE band5(10MHz))                                            |
| Data mode (LTE band 7(QPSK))   | Keep the EUT in data communicating mode on LTE band 7(QPSK).<br>(LTE band7(5MHz), LTE band 7(10MHz), LTE band 7(15MHz), LTE band<br>7(20MHz))                                         |
| Data mode (LTE band 7(16QAM))  | Keep the EUT in data communicating mode on LTE band<br>7(16QAM).(LTE band7(5MHz), LTE band7(10MHz), LTE band 7(15MHz),<br>LTE band 7(20MHz))                                          |
| Data mode (LTE band 12(QPSK))  | Keep the EUT in data communicating mode on LTE band 12(QPSK).<br>(LTE band12(1.4MHz), LTE band 12(3MHz), LTE band 12(5MHz), LTE band<br>12(10MHz))                                    |
| Data mode (LTE band 12(16QAM)) | Keep the EUT in data communicating mode on LTE band<br>12(16QAM).(LTE band12(1.4MHz), LTE band12(3MHz), LTE band<br>12(5MHz), LTE band 12(10MHz))                                     |
| Data mode (LTE band 17(QPSK))  | Keep the EUT in data communicating mode on LTE band17(QPSK).<br>(LTE band17(5MHz), LTE band17(10MHz))                                                                                 |
| Data mode (LTE band 17(16QAM)) | Keep the EUT in data communicating mode on LTE band<br>17(16QAM).(LTE band17(5MHz), LTE band17(10MHz))                                                                                |
| Remark :                       | Just the worst case data were shown in the report.                                                                                                                                    |

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

This submittal(s) (test report) is filing to comply with Section Part 22 Subpart H, Part 24 subpart E, Part 27 subpart L, Part 27 Subpart M and Part 27 subpart H of the FCC CFR 47 Rules.

### 5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47clause 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.6 Laboratory Facility

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

● **FCC - Registration No.: 817957**

Shenzhen ZhongjianNanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● **IC - Registration No.: 10106A-1**

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

● **CNAS - Registration No.: CNAS L6048**

Shenzhen ZhongjianNanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.7 Laboratory Location

Shenzhen ZhongjianNanfang Testing Co., Ltd.  
Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282  
Fax: +86-755-23116366  
Email: info@ccis-cb.com

## 5.8 Test Instruments list

| Test Equipment                       | Manufacturer                             | Model No.                   | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|--------------------------------------|------------------------------------------|-----------------------------|---------------|----------------------|--------------------------|
| 3m Semi- Anechoic Chamber            | SAEMC                                    | 9(L)*6(W)* 6(H)             | CCIS0001      | 08-23-2014           | 08-22-2017               |
| BiConiLog Antenna                    | SCHWARZBECK<br>MESS-ELEKTRONIK           | VULB9163                    | CCIS0005      | 02-25-2017           | 02-24-2018               |
| Double -ridged waveguide horn        | SCHWARZBECK<br>MESS-ELEKTRONIK           | BBHA9120D                   | CCIS0006      | 02-25-2017           | 02-24-2018               |
| EMI Test Software                    | AUDIX                                    | E3                          | N/A           | N/A                  | N/A                      |
| Amplifier (10kHz-1.3GHz)             | HP                                       | 8447D                       | CCIS0003      | 02-25-2017           | 02-24-2018               |
| Amplifier (1GHz-18GHz)               | Compliance Direction Systems Inc.        | PAP-1G18                    | CCIS0011      | 02-25-2017           | 02-24-2018               |
| Pre-amplifier (18-26GHz)             | Rohde & Schwarz                          | AFS33-18002<br>650-30-8P-44 | GTS218        | 02-25-2017           | 02-24-2018               |
| Horn Antenna                         | ETS-LINDGREN                             | 3160                        | GTS217        | 02-25-2017           | 02-24-2018               |
| Printer                              | HP                                       | HP LaserJet P1007           | N/A           | N/A                  | N/A                      |
| Positioning Controller               | UC                                       | UC3000                      | CCIS0015      | N/A                  | N/A                      |
| Spectrum analyzer 9k-30GHz           | Rohde & Schwarz                          | FSP 30                      | CCIS0023      | 02-25-2017           | 02-24-2018               |
| EMI Test Receiver                    | Rohde & Schwarz                          | ESPI                        | CCIS0022      | 02-25-2017           | 02-24-2018               |
| EMI Test Receiver                    | Rohde & Schwarz                          | ESRP7                       | CCIS0167      | 02-25-2017           | 02-24-2018               |
| Loop antenna                         | Laplace instrument                       | RF300                       | EMC0701       | 02-25-2017           | 02-24-2018               |
| Universal radio communication tester | Rhode & Schwarz                          | CMU200                      | CCIS0069      | 02-25-2017           | 02-24-2018               |
| Signal Analyzer                      | Rohde & Schwarz                          | FSIQ3                       | CCIS0088      | 02-25-2017           | 02-24-2018               |
| DC Power Supply                      | Shenzhen XinNuoEr Technologies Co., Ltd. | WYK-10020K                  | CCIS0201      | 10-31-2016           | 10-30-2017               |
| Temperature Humidity Chamber         | Fo Shan HengPu Electronics Co., Ltd.     | HPGDS-500                   | CCIS0240      | 11-18-2016           | 11-27-2017               |

## 6. System test configuration

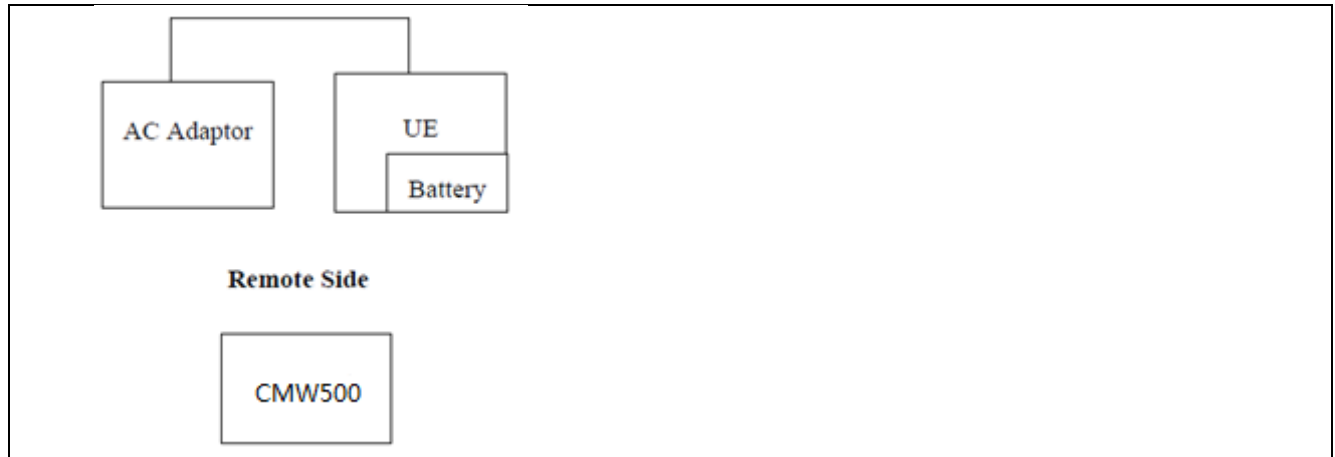
### 6.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

### 6.3 Configuration of Tested System



### 6.4 Description of Test Modes

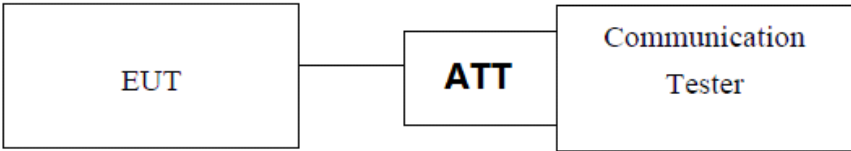
The EUT has been tested under operating condition.

EUT staying in 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 three modes (LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 7, LTE Band 12, LTE Band 17) with power adaptor, earphone and Data cable. The worst-case H mode for LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 7, LTE Band 12, LTE Band 17.



## 6.5 Conducted Output Power

|                   |                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCCPart 22.913 (a),Part 24.232 (c), part 27.50(c), part 27.50(d), Part 27.50 (h)                                                                                   |
| Test Method:      | FCC part2.1046                                                                                                                                                     |
| Limit:            | LTE Band2: 2W<br>LTE Band 4: 1W<br>LTE Band 5: 7W<br>LTE Band 7: 2W<br>LTE Band 12: 3W<br>LTE Band 17: 3W                                                          |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></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 5.8 for details                                                                                                                                   |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                   |
| Test results:     | Passed                                                                                                                                                             |

**Measurement Data:**  
**LTE Band 2 part**

| 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         | 21.33               | 21.27     | 21.12     |
|          |                 |            | 1       | 2         | 21.27               | 21.18     | 21.14     |
|          |                 |            | 1       | 5         | 21.29               | 21.17     | 21.10     |
|          |                 |            | 3       | 0         | 21.13               | 21.11     | 21.16     |
|          |                 |            | 3       | 1         | 21.18               | 21.15     | 21.01     |
|          |                 |            | 3       | 2         | 21.17               | 21.11     | 21.04     |
|          |                 |            | 6       | 0         | 20.98               | 20.86     | 21.00     |
|          |                 | 16QAM      | 1       | 0         | 21.19               | 20.88     | 20.76     |
|          |                 |            | 1       | 2         | 21.16               | 20.95     | 20.71     |
|          |                 |            | 1       | 5         | 21.02               | 20.96     | 20.97     |
|          |                 |            | 3       | 0         | 21.02               | 20.73     | 20.92     |
|          |                 |            | 3       | 1         | 21.04               | 20.84     | 20.89     |
|          |                 |            | 3       | 2         | 20.98               | 20.89     | 20.96     |
|          |                 |            | 6       | 0         | 20.00               | 19.79     | 19.94     |
| 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         | 21.10               | 21.33     | 21.23     |
|          |                 |            | 1       | 7         | 21.09               | 21.32     | 21.26     |
|          |                 |            | 1       | 14        | 21.08               | 21.40     | 21.24     |
|          |                 |            | 8       | 0         | 21.35               | 21.12     | 21.23     |
|          |                 |            | 8       | 4         | 21.20               | 21.22     | 21.19     |
|          |                 |            | 8       | 7         | 21.24               | 21.16     | 21.18     |
|          |                 |            | 15      | 0         | 20.32               | 20.51     | 20.66     |
|          |                 | 16QAM      | 1       | 0         | 20.52               | 20.59     | 20.83     |
|          |                 |            | 1       | 7         | 20.46               | 20.60     | 20.46     |
|          |                 |            | 1       | 14        | 20.48               | 20.60     | 20.67     |
|          |                 |            | 8       | 0         | 20.52               | 20.45     | 20.76     |
|          |                 |            | 8       | 4         | 20.37               | 20.65     | 20.81     |
|          |                 |            | 8       | 7         | 20.47               | 20.64     | 20.85     |
|          |                 |            | 15      | 0         | 19.37               | 19.59     | 19.73     |
| 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         | 21.11               | 21.22     | 21.10     |
|          |                 |            | 1       | 12        | 21.28               | 21.26     | 21.22     |
|          |                 |            | 1       | 24        | 21.18               | 21.21     | 21.16     |
|          |                 |            | 12      | 0         | 21.25               | 21.28     | 21.17     |
|          |                 |            | 12      | 6         | 21.20               | 21.24     | 21.14     |
|          |                 |            | 12      | 11        | 21.19               | 21.16     | 21.14     |
|          |                 |            | 25      | 0         | 20.44               | 20.58     | 20.69     |
|          |                 | 16QAM      | 1       | 0         | 20.56               | 20.62     | 20.72     |
|          |                 |            | 1       | 12        | 20.65               | 20.35     | 20.75     |
|          |                 |            | 1       | 24        | 20.57               | 20.65     | 20.34     |
|          |                 |            | 12      | 0         | 20.35               | 20.53     | 20.61     |
|          |                 |            | 12      | 6         | 20.47               | 20.43     | 21.14     |
|          |                 |            | 12      | 11        | 20.41               | 20.37     | 20.53     |
|          |                 |            | 25      | 0         | 19.46               | 19.49     | 19.68     |

| 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         | 21.27               | 21.21     | 21.21     |
|          |                 |            | 1       | 24        | 21.28               | 21.24     | 21.23     |
|          |                 |            | 1       | 49        | 21.30               | 21.25     | 21.27     |
|          |                 |            | 25      | 0         | 21.26               | 21.36     | 21.18     |
|          |                 |            | 25      | 12        | 21.27               | 21.37     | 21.22     |
|          |                 |            | 25      | 24        | 21.30               | 21.42     | 21.17     |
|          |                 |            | 50      | 0         | 20.37               | 20.48     | 20.62     |
|          |                 | 16QAM      | 1       | 0         | 20.42               | 20.44     | 20.45     |
|          |                 |            | 1       | 24        | 20.60               | 20.27     | 20.65     |
|          |                 |            | 1       | 49        | 20.55               | 20.63     | 20.80     |
|          |                 |            | 25      | 0         | 20.26               | 20.25     | 20.52     |
|          |                 |            | 25      | 12        | 20.35               | 20.46     | 20.43     |
|          |                 |            | 25      | 24        | 20.23               | 20.51     | 20.61     |
|          |                 |            | 50      | 0         | 19.31               | 19.43     | 19.65     |
| 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         | 21.03               | 21.04     | 21.27     |
|          |                 |            | 1       | 37        | 20.91               | 21.18     | 21.11     |
|          |                 |            | 1       | 74        | 20.71               | 21.19     | 21.26     |
|          |                 |            | 36      | 0         | 20.80               | 21.14     | 21.29     |
|          |                 |            | 36      | 16        | 20.69               | 21.04     | 21.25     |
|          |                 |            | 36      | 35        | 20.80               | 21.14     | 21.34     |
|          |                 |            | 75      | 0         | 19.73               | 20.07     | 20.32     |
|          |                 | 16QAM      | 1       | 0         | 20.46               | 20.23     | 20.43     |
|          |                 |            | 1       | 37        | 20.20               | 20.20     | 20.33     |
|          |                 |            | 1       | 74        | 20.69               | 20.47     | 20.20     |
|          |                 |            | 36      | 0         | 20.25               | 20.13     | 20.12     |
|          |                 |            | 36      | 16        | 20.16               | 20.01     | 20.34     |
|          |                 |            | 36      | 35        | 20.18               | 20.16     | 20.27     |
|          |                 |            | 75      | 0         | 19.08               | 19.08     | 19.11     |
| 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         | 21.12               | 21.12     | 21.03     |
|          |                 |            | 1       | 49        | 20.92               | 21.24     | 21.05     |
|          |                 |            | 1       | 99        | 20.97               | 21.41     | 21.28     |
|          |                 |            | 50      | 0         | 21.07               | 20.93     | 21.08     |
|          |                 |            | 50      | 24        | 20.99               | 20.47     | 20.94     |
|          |                 |            | 50      | 49        | 21.17               | 20.81     | 21.05     |
|          |                 |            | 100     | 0         | 20.25               | 19.70     | 19.95     |
|          |                 | 16QAM      | 1       | 0         | 20.62               | 19.75     | 20.69     |
|          |                 |            | 1       | 49        | 20.56               | 19.98     | 20.62     |
|          |                 |            | 1       | 99        | 20.35               | 20.25     | 20.58     |
|          |                 |            | 50      | 0         | 20.27               | 19.82     | 20.52     |
|          |                 |            | 50      | 24        | 20.53               | 19.63     | 20.29     |
|          |                 |            | 50      | 49        | 20.02               | 19.89     | 20.49     |
|          |                 |            | 100     | 0         | 20.05               | 18.64     | 18.97     |

## LTE Band 4 part

| 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         | 21.53               | 21.16     | 21.12     |
|          |                 |            | 1       | 2         | 21.49               | 21.28     | 21.22     |
|          |                 |            | 1       | 5         | 21.51               | 21.16     | 21.16     |
|          |                 |            | 3       | 0         | 21.55               | 21.28     | 21.26     |
|          |                 |            | 3       | 1         | 21.15               | 21.34     | 21.32     |
|          |                 |            | 3       | 2         | 21.56               | 21.48     | 21.25     |
|          |                 |            | 6       | 0         | 20.57               | 20.17     | 20.30     |
|          |                 | 16QAM      | 1       | 0         | 20.88               | 20.61     | 20.45     |
|          |                 |            | 1       | 2         | 20.78               | 20.54     | 20.53     |
|          |                 |            | 1       | 5         | 20.54               | 20.52     | 20.33     |
|          |                 |            | 3       | 0         | 20.46               | 20.21     | 20.28     |
|          |                 |            | 3       | 1         | 20.64               | 20.30     | 20.48     |
|          |                 |            | 3       | 2         | 20.63               | 20.60     | 20.27     |
|          |                 |            | 6       | 0         | 19.52               | 19.58     | 19.32     |
| 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         | 21.56               | 21.63     | 21.43     |
|          |                 |            | 1       | 7         | 21.53               | 21.43     | 21.37     |
|          |                 |            | 1       | 14        | 21.42               | 21.48     | 21.33     |
|          |                 |            | 8       | 0         | 20.60               | 20.54     | 20.49     |
|          |                 |            | 8       | 4         | 20.57               | 20.58     | 20.44     |
|          |                 |            | 8       | 7         | 20.57               | 20.51     | 20.42     |
|          |                 |            | 15      | 0         | 20.57               | 20.50     | 20.43     |
|          |                 | 16QAM      | 1       | 0         | 20.92               | 20.87     | 20.31     |
|          |                 |            | 1       | 7         | 20.54               | 20.84     | 20.65     |
|          |                 |            | 1       | 14        | 20.81               | 20.78     | 20.54     |
|          |                 |            | 8       | 0         | 19.58               | 19.80     | 19.65     |
|          |                 |            | 8       | 4         | 19.58               | 19.60     | 19.35     |
|          |                 |            | 8       | 7         | 19.58               | 19.63     | 19.46     |
|          |                 |            | 15      | 0         | 19.74               | 19.59     | 19.46     |
| 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         | 21.62               | 21.43     | 21.32     |
|          |                 |            | 1       | 12        | 21.56               | 21.46     | 21.39     |
|          |                 |            | 1       | 24        | 21.54               | 21.38     | 21.30     |
|          |                 |            | 12      | 0         | 20.62               | 20.47     | 20.46     |
|          |                 |            | 12      | 6         | 20.59               | 20.52     | 20.42     |
|          |                 |            | 12      | 11        | 20.58               | 20.43     | 20.53     |
|          |                 |            | 25      | 0         | 20.60               | 20.49     | 20.32     |
|          |                 | 16QAM      | 1       | 0         | 20.90               | 20.86     | 20.58     |
|          |                 |            | 1       | 12        | 20.88               | 20.92     | 20.63     |
|          |                 |            | 1       | 24        | 20.62               | 20.59     | 20.51     |
|          |                 |            | 12      | 0         | 19.65               | 19.60     | 19.50     |
|          |                 |            | 12      | 6         | 19.61               | 19.61     | 19.51     |
|          |                 |            | 12      | 11        | 19.53               | 19.52     | 19.51     |
|          |                 |            | 25      | 0         | 19.62               | 19.34     | 19.44     |

| 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         | 21.57               | 21.88     | 21.23     |
|          |                 |            | 1       | 24        | 21.48               | 21.86     | 21.25     |
|          |                 |            | 1       | 49        | 21.42               | 21.73     | 21.12     |
|          |                 |            | 25      | 0         | 20.54               | 20.85     | 20.68     |
|          |                 |            | 25      | 12        | 20.47               | 20.80     | 20.74     |
|          |                 |            | 25      | 24        | 20.44               | 20.73     | 20.52     |
|          |                 |            | 50      | 0         | 20.45               | 20.78     | 20.48     |
|          |                 | 16QAM      | 1       | 0         | 20.82               | 20.99     | 20.86     |
|          |                 |            | 1       | 24        | 20.53               | 20.69     | 20.71     |
|          |                 |            | 1       | 49        | 20.72               | 20.96     | 20.69     |
|          |                 |            | 25      | 0         | 19.54               | 19.96     | 19.81     |
|          |                 |            | 25      | 12        | 19.55               | 19.86     | 19.56     |
|          |                 |            | 25      | 24        | 19.57               | 19.84     | 19.81     |
|          |                 |            | 50      | 0         | 19.82               | 19.82     | 19.77     |
| 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         | 21.48               | 21.56     | 22.48     |
|          |                 |            | 1       | 37        | 21.43               | 21.47     | 22.41     |
|          |                 |            | 1       | 74        | 21.37               | 21.69     | 22.31     |
|          |                 |            | 36      | 0         | 20.96               | 20.85     | 21.48     |
|          |                 |            | 36      | 16        | 20.72               | 20.96     | 21.45     |
|          |                 |            | 36      | 35        | 20.81               | 21.00     | 21.41     |
|          |                 |            | 75      | 0         | 20.46               | 20.71     | 21.46     |
|          |                 | 16QAM      | 1       | 0         | 20.67               | 21.71     | 21.31     |
|          |                 |            | 1       | 37        | 20.81               | 21.76     | 21.57     |
|          |                 |            | 1       | 74        | 20.69               | 21.43     | 21.18     |
|          |                 |            | 36      | 0         | 19.63               | 20.51     | 20.51     |
|          |                 |            | 36      | 16        | 19.41               | 20.41     | 20.46     |
|          |                 |            | 36      | 35        | 19.44               | 20.38     | 20.61     |
|          |                 |            | 75      | 0         | 19.58               | 20.51     | 20.62     |
| 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         | 22.54               | 22.65     | 22.70     |
|          |                 |            | 1       | 49        | 22.63               | 22.77     | 22.44     |
|          |                 |            | 1       | 99        | 22.66               | 22.48     | 22.37     |
|          |                 |            | 50      | 0         | 21.73               | 21.68     | 21.56     |
|          |                 |            | 50      | 24        | 21.60               | 21.49     | 21.35     |
|          |                 |            | 50      | 49        | 21.55               | 21.40     | 21.38     |
|          |                 |            | 100     | 0         | 21.64               | 21.56     | 21.48     |
|          |                 | 16QAM      | 1       | 0         | 21.60               | 21.67     | 21.51     |
|          |                 |            | 1       | 49        | 21.55               | 21.45     | 21.52     |
|          |                 |            | 1       | 99        | 21.61               | 21.56     | 21.32     |
|          |                 |            | 50      | 0         | 20.78               | 20.73     | 20.56     |
|          |                 |            | 50      | 24        | 20.61               | 20.51     | 20.36     |
|          |                 |            | 50      | 49        | 20.60               | 20.39     | 20.42     |
|          |                 |            | 100     | 0         | 20.69               | 20.55     | 20.54     |

## LTE Band 5 part

| 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         | 22.25               | 22.40    | 22.65    |
|          |                 |            | 1       | 2         | 22.29               | 22.52    | 22.61    |
|          |                 |            | 1       | 5         | 22.25               | 22.41    | 22.57    |
|          |                 |            | 3       | 0         | 22.51               | 22.62    | 22.74    |
|          |                 |            | 3       | 1         | 22.55               | 22.62    | 22.74    |
|          |                 |            | 3       | 2         | 22.61               | 22.69    | 22.73    |
|          |                 |            | 6       | 0         | 21.25               | 21.65    | 21.83    |
|          |                 | 16QAM      | 1       | 0         | 21.78               | 21.41    | 22.12    |
|          |                 |            | 1       | 2         | 21.71               | 21.77    | 21.97    |
|          |                 |            | 1       | 5         | 21.46               | 21.42    | 21.48    |
|          |                 |            | 3       | 0         | 21.73               | 21.64    | 21.91    |
|          |                 |            | 3       | 1         | 21.67               | 21.69    | 21.87    |
|          |                 |            | 3       | 2         | 21.74               | 21.60    | 21.90    |
|          |                 |            | 6       | 0         | 20.67               | 20.57    | 20.69    |
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |          |          |
|          |                 |            |         |           | 20415               | 20525    | 20635    |
|          |                 |            |         |           | 825.5MHz            | 836.5MHz | 847.5MHz |
| 5        | 3               | QPSK       | 1       | 0         | 22.52               | 22.48    | 22.87    |
|          |                 |            | 1       | 7         | 22.61               | 22.81    | 22.91    |
|          |                 |            | 1       | 14        | 22.58               | 22.89    | 22.86    |
|          |                 |            | 8       | 0         | 21.65               | 21.87    | 22.11    |
|          |                 |            | 8       | 4         | 21.66               | 21.82    | 22.08    |
|          |                 |            | 8       | 7         | 21.63               | 21.86    | 22.06    |
|          |                 |            | 15      | 0         | 21.65               | 21.90    | 22.08    |
|          |                 | 16QAM      | 1       | 0         | 21.65               | 22.02    | 21.97    |
|          |                 |            | 1       | 7         | 21.44               | 22.78    | 22.04    |
|          |                 |            | 1       | 14        | 21.39               | 22.98    | 21.75    |
|          |                 |            | 8       | 0         | 20.78               | 20.95    | 20.99    |
|          |                 |            | 8       | 4         | 20.83               | 20.95    | 21.04    |
|          |                 |            | 8       | 7         | 20.67               | 20.95    | 21.21    |
|          |                 |            | 15      | 0         | 20.35               | 20.91    | 21.00    |
| 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         | 22.78               | 22.78    | 22.90    |
|          |                 |            | 1       | 12        | 22.78               | 22.83    | 22.98    |
|          |                 |            | 1       | 24        | 22.72               | 22.77    | 22.98    |
|          |                 |            | 12      | 0         | 21.81               | 21.75    | 21.94    |
|          |                 |            | 12      | 6         | 21.85               | 21.82    | 21.95    |
|          |                 |            | 12      | 11        | 21.75               | 21.79    | 21.98    |
|          |                 |            | 25      | 0         | 21.81               | 21.79    | 21.93    |
|          |                 | 16QAM      | 1       | 0         | 22.04               | 21.85    | 22.13    |
|          |                 |            | 1       | 12        | 21.81               | 21.56    | 22.30    |
|          |                 |            | 1       | 24        | 21.92               | 21.98    | 22.06    |
|          |                 |            | 12      | 0         | 20.92               | 20.83    | 20.96    |
|          |                 |            | 12      | 6         | 20.87               | 20.88    | 20.94    |
|          |                 |            | 12      | 11        | 20.77               | 20.81    | 20.99    |
|          |                 |            | 25      | 0         | 20.89               | 20.85    | 20.97    |

| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |          |        |
|----------|-----------------|------------|---------|-----------|---------------------|----------|--------|
|          |                 |            |         |           | 20450               | 20525    | 20600  |
|          |                 |            |         |           | 829MHz              | 836.5MHz | 844MHz |
| 5        | 10              | QPSK       | 1       | 0         | 22.89               | 22.82    | 22.76  |
|          |                 |            | 1       | 24        | 22.90               | 22.84    | 22.88  |
|          |                 |            | 1       | 49        | 22.81               | 22.81    | 22.87  |
|          |                 |            | 25      | 0         | 21.89               | 21.81    | 22.02  |
|          |                 |            | 25      | 12        | 21.80               | 21.83    | 21.89  |
|          |                 |            | 25      | 24        | 21.87               | 21.76    | 21.85  |
|          |                 |            | 50      | 0         | 21.92               | 21.77    | 21.96  |
|          |                 | 16QAM      | 1       | 0         | 21.81               | 21.68    | 21.63  |
|          |                 |            | 1       | 24        | 22.08               | 21.94    | 22.18  |
|          |                 |            | 1       | 49        | 21.84               | 21.89    | 21.75  |
|          |                 |            | 25      | 0         | 20.93               | 20.86    | 21.10  |
|          |                 |            | 25      | 12        | 20.82               | 20.79    | 20.98  |
|          |                 |            | 25      | 24        | 20.89               | 20.86    | 20.96  |
|          |                 |            | 50      | 0         | 20.90               | 20.77    | 20.97  |

## LTE Band 7 part

| 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         | 22.36               | 22.03     | 22.03     |
|          |                 |            | 1       | 12        | 22.06               | 22.12     | 22.07     |
|          |                 |            | 1       | 24        | 22.48               | 22.07     | 21.93     |
|          |                 |            | 12      | 0         | 21.22               | 21.15     | 21.28     |
|          |                 |            | 12      | 6         | 21.25               | 21.17     | 21.14     |
|          |                 |            | 12      | 11        | 21.19               | 21.05     | 21.02     |
|          |                 |            | 25      | 0         | 21.23               | 21.14     | 21.18     |
|          |                 | 16QAM      | 1       | 0         | 21.31               | 21.13     | 21.91     |
|          |                 |            | 1       | 12        | 21.43               | 21.03     | 21.21     |
|          |                 |            | 1       | 24        | 20.97               | 21.07     | 20.90     |
|          |                 |            | 12      | 0         | 20.20               | 20.14     | 20.21     |
|          |                 |            | 12      | 6         | 20.25               | 20.22     | 20.05     |
|          |                 |            | 12      | 11        | 20.31               | 20.16     | 19.94     |
|          |                 |            | 25      | 0         | 20.21               | 20.09     | 20.12     |
| 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         | 22.15               | 22.16     | 22.10     |
|          |                 |            | 1       | 24        | 22.26               | 22.13     | 22.25     |
|          |                 |            | 1       | 49        | 22.30               | 22.32     | 22.16     |
|          |                 |            | 25      | 0         | 21.35               | 21.29     | 21.33     |
|          |                 |            | 25      | 12        | 21.31               | 21.25     | 21.29     |
|          |                 |            | 25      | 24        | 21.30               | 21.17     | 21.06     |
|          |                 |            | 50      | 0         | 21.34               | 21.30     | 21.20     |
|          |                 | 16QAM      | 1       | 0         | 21.43               | 21.25     | 21.48     |
|          |                 |            | 1       | 24        | 21.15               | 21.13     | 21.11     |
|          |                 |            | 1       | 49        | 21.42               | 21.47     | 21.32     |
|          |                 |            | 25      | 0         | 20.41               | 20.22     | 20.25     |
|          |                 |            | 25      | 12        | 20.37               | 20.28     | 20.31     |
|          |                 |            | 25      | 24        | 20.36               | 20.12     | 20.04     |
|          |                 |            | 50      | 0         | 20.41               | 20.21     | 20.15     |
| 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         | 22.42               | 22.28     | 22.36     |
|          |                 |            | 1       | 37        | 22.37               | 22.21     | 22.29     |
|          |                 |            | 1       | 74        | 22.38               | 22.31     | 22.35     |
|          |                 |            | 36      | 0         | 21.50               | 21.36     | 21.28     |
|          |                 |            | 36      | 16        | 21.41               | 21.30     | 21.34     |
|          |                 |            | 36      | 35        | 21.47               | 21.23     | 21.21     |
|          |                 |            | 75      | 0         | 21.48               | 21.30     | 21.24     |
|          |                 | 16QAM      | 1       | 0         | 21.63               | 21.45     | 21.51     |
|          |                 |            | 1       | 37        | 21.71               | 21.25     | 21.44     |
|          |                 |            | 1       | 74        | 21.76               | 21.64     | 21.48     |
|          |                 |            | 36      | 0         | 20.49               | 20.35     | 20.31     |
|          |                 |            | 36      | 16        | 20.43               | 20.27     | 20.36     |
|          |                 |            | 36      | 35        | 20.47               | 20.24     | 20.18     |
|          |                 |            | 75      | 0         | 20.39               | 20.21     | 20.22     |



| 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         | 22.58               | 22.38     | 22.52     |
|          |                 |            | 1       | 49        | 22.39               | 22.20     | 22.27     |
|          |                 |            | 1       | 99        | 22.54               | 22.46     | 22.32     |
|          |                 |            | 50      | 0         | 21.61               | 21.41     | 21.34     |
|          |                 |            | 50      | 24        | 21.44               | 21.37     | 21.38     |
|          |                 |            | 50      | 49        | 21.58               | 21.23     | 21.28     |
|          |                 |            | 100     | 0         | 21.56               | 21.30     | 21.27     |
|          |                 | 16QAM      | 1       | 0         | 21.68               | 21.20     | 21.75     |
|          |                 |            | 1       | 49        | 21.31               | 21.15     | 21.54     |
|          |                 |            | 1       | 99        | 21.37               | 21.78     | 21.36     |
|          |                 |            | 50      | 0         | 20.53               | 20.40     | 20.50     |
|          |                 |            | 50      | 24        | 20.39               | 20.27     | 20.38     |
|          |                 |            | 50      | 49        | 20.54               | 20.14     | 20.28     |
|          |                 |            | 100     | 0         | 20.57               | 20.34     | 20.26     |

## LTE Band 12 part

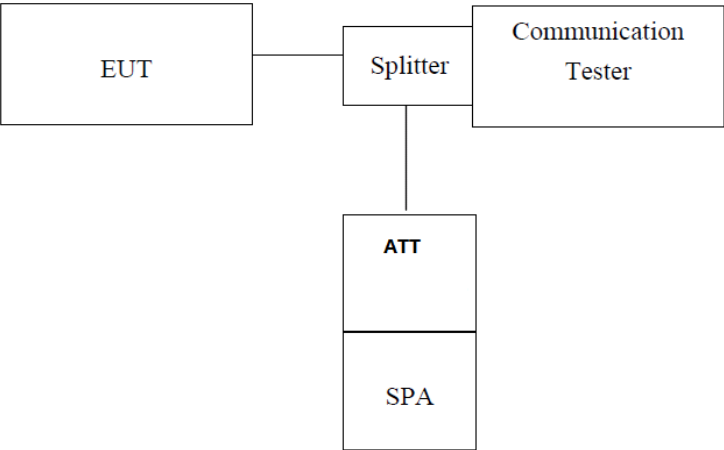
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |          |          |
|----------|-----------------|------------|---------|-----------|---------------------|----------|----------|
|          |                 |            |         |           | 23017               | 23095    | 23175    |
|          |                 |            |         |           | 699.7MHz            | 707.5MHz | 715.3MHz |
| 12       | 1.4             | QPSK       | 1       | 0         | 22.91               | 22.98    | 22.78    |
|          |                 |            | 1       | 2         | 23.06               | 22.96    | 22.83    |
|          |                 |            | 1       | 5         | 22.93               | 22.89    | 22.83    |
|          |                 |            | 3       | 0         | 23.13               | 23.06    | 22.91    |
|          |                 |            | 3       | 1         | 23.15               | 23.10    | 22.89    |
|          |                 |            | 3       | 2         | 23.15               | 23.04    | 22.91    |
|          |                 |            | 6       | 0         | 22.13               | 22.12    | 21.96    |
|          |                 | 16QAM      | 1       | 0         | 21.98               | 22.01    | 22.24    |
|          |                 |            | 1       | 2         | 22.05               | 22.45    | 21.71    |
|          |                 |            | 1       | 5         | 21.02               | 22.20    | 22.02    |
|          |                 |            | 3       | 0         | 22.02               | 22.27    | 22.14    |
|          |                 |            | 3       | 1         | 22.16               | 22.31    | 22.15    |
|          |                 |            | 3       | 2         | 22.22               | 22.26    | 22.28    |
|          |                 |            | 6       | 0         | 21.20               | 21.16    | 21.05    |
| 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         | 23.04               | 23.03    | 22.98    |
|          |                 |            | 1       | 7         | 23.10               | 22.98    | 23.03    |
|          |                 |            | 1       | 14        | 23.14               | 22.93    | 22.91    |
|          |                 |            | 8       | 0         | 22.17               | 22.13    | 22.01    |
|          |                 |            | 8       | 4         | 22.12               | 22.15    | 22.03    |
|          |                 |            | 8       | 7         | 22.20               | 22.10    | 22.00    |
|          |                 |            | 15      | 0         | 22.14               | 22.16    | 22.03    |
|          |                 | 16QAM      | 1       | 0         | 22.02               | 22.37    | 22.21    |
|          |                 |            | 1       | 7         | 22.15               | 22.23    | 22.26    |
|          |                 |            | 1       | 14        | 22.18               | 22.21    | 21.72    |
|          |                 |            | 8       | 0         | 21.37               | 21.21    | 21.18    |
|          |                 |            | 8       | 4         | 21.67               | 21.13    | 21.08    |
|          |                 |            | 8       | 7         | 21.17               | 21.20    | 21.00    |
|          |                 |            | 15      | 0         | 21.12               | 21.16    | 21.12    |
| 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         | 23.00               | 23.12    | 23.07    |
|          |                 |            | 1       | 12        | 23.18               | 23.07    | 22.86    |
|          |                 |            | 1       | 24        | 23.17               | 22.92    | 22.81    |
|          |                 |            | 12      | 0         | 22.07               | 22.02    | 22.03    |
|          |                 |            | 12      | 6         | 22.21               | 22.14    | 22.12    |
|          |                 |            | 12      | 11        | 22.16               | 22.03    | 22.11    |
|          |                 |            | 25      | 0         | 22.13               | 22.11    | 22.00    |
|          |                 | 16QAM      | 1       | 0         | 22.32               | 22.24    | 22.31    |
|          |                 |            | 1       | 12        | 22.20               | 22.13    | 22.05    |
|          |                 |            | 1       | 24        | 22.44               | 22.35    | 22.26    |
|          |                 |            | 12      | 0         | 21.05               | 21.02    | 21.01    |
|          |                 |            | 12      | 6         | 21.34               | 21.48    | 21.33    |
|          |                 |            | 12      | 11        | 21.13               | 21.24    | 21.15    |
|          |                 |            | 25      | 0         | 21.12               | 21.14    | 21.08    |

| 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         | 23.01               | 23.02    | 22.89    |
|          |                 |            | 1       | 24        | 22.25               | 22.37    | 22.41    |
|          |                 |            | 1       | 49        | 22.26               | 22.03    | 22.15    |
|          |                 |            | 25      | 0         | 22.41               | 22.19    | 22.06    |
|          |                 |            | 25      | 12        | 22.16               | 22.06    | 22.13    |
|          |                 |            | 25      | 24        | 22.14               | 22.32    | 22.24    |
|          |                 |            | 50      | 0         | 22.06               | 22.01    | 21.89    |
|          |                 | 16QAM      | 1       | 0         | 22.61               | 22.23    | 22.07    |
|          |                 |            | 1       | 24        | 22.46               | 21.85    | 21.96    |
|          |                 |            | 1       | 49        | 22.52               | 22.12    | 22.17    |
|          |                 |            | 25      | 0         | 21.89               | 21.78    | 21.68    |
|          |                 |            | 25      | 12        | 22.03               | 21.69    | 21.74    |
|          |                 |            | 25      | 24        | 22.12               | 22.07    | 22.01    |
|          |                 |            | 50      | 0         | 21.03               | 21.24    | 21.56    |

## LTE Band 17 part

| 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         | 22.89               | 22.79    | 22.76    |
|          |                 |            | 1       | 12        | 22.17               | 22.10    | 22.19    |
|          |                 |            | 1       | 24        | 22.01               | 22.04    | 22.11    |
|          |                 |            | 12      | 0         | 22.24               | 21.83    | 21.96    |
|          |                 |            | 12      | 6         | 22.20               | 22.15    | 22.04    |
|          |                 |            | 12      | 11        | 22.25               | 22.11    | 21.91    |
|          |                 |            | 25      | 0         | 22.26               | 22.01    | 21.95    |
|          |                 | 16QAM      | 1       | 0         | 22.05               | 21.93    | 21.90    |
|          |                 |            | 1       | 12        | 22.14               | 21.97    | 22.26    |
|          |                 |            | 1       | 24        | 22.28               | 22.02    | 22.20    |
|          |                 |            | 12      | 0         | 21.20               | 20.94    | 20.84    |
|          |                 |            | 12      | 6         | 21.16               | 21.11    | 21.05    |
|          |                 |            | 12      | 11        | 21.19               | 21.19    | 21.01    |
|          |                 |            | 25      | 0         | 21.29               | 21.09    | 20.98    |
| 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         | 22.87               | 22.89    | 22.92    |
|          |                 |            | 1       | 24        | 22.11               | 22.13    | 22.18    |
|          |                 |            | 1       | 49        | 22.09               | 22.11    | 22.06    |
|          |                 |            | 25      | 0         | 22.05               | 22.20    | 21.98    |
|          |                 |            | 25      | 12        | 22.15               | 22.19    | 22.07    |
|          |                 |            | 25      | 24        | 22.12               | 22.26    | 21.96    |
|          |                 |            | 50      | 0         | 22.14               | 22.27    | 22.01    |
|          |                 | 16QAM      | 1       | 0         | 22.55               | 22.36    | 22.05    |
|          |                 |            | 1       | 24        | 21.97               | 22.34    | 21.94    |
|          |                 |            | 1       | 49        | 22.05               | 21.37    | 22.27    |
|          |                 |            | 25      | 0         | 21.10               | 21.24    | 21.00    |
|          |                 |            | 25      | 12        | 21.20               | 21.14    | 21.06    |
|          |                 |            | 25      | 24        | 21.21               | 21.25    | 21.02    |
|          |                 |            | 50      | 0         | 21.17               | 21.30    | 21.07    |

## 6.6 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part 24.232(d) and part 27.50(d)(5)                                                                                                                                                                                                                                                                                                                                                                        |
| Limit:            | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.                                                                                                                                                                                                                                                                                                                                      |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></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, RBW <math>\geq</math> OBW,</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 5.8 for details                                                                                                                                                                                                                                                                                                                                                                               |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                               |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                         |

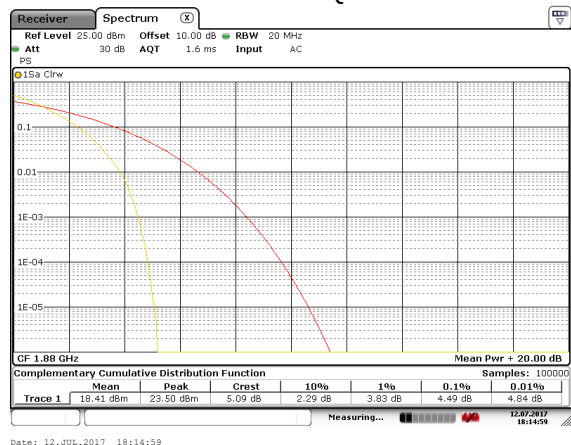
**Measurement Data:**

| BW(MHz)                      | Modulation | RB Size | RB Offset | PAPR |
|------------------------------|------------|---------|-----------|------|
| LTE Band 2 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 4.49 |
|                              | 16QAM      | 100     | 0         | 5.39 |
| LTE Band 4 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.65 |
|                              | 16QAM      | 100     | 0         | 5.68 |
| LTE Band 5 (Middle Channel)  |            |         |           |      |
| 10MHz                        | QPSK       | 100     | 0         | 5.07 |
|                              | 16QAM      | 100     | 0         | 5.83 |
| LTE Band 7 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 4.84 |
|                              | 16QAM      | 100     | 0         | 5.94 |
| LTE Band 12 (Middle Channel) |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.10 |
|                              | 16QAM      | 100     | 0         | 5.86 |
| LTE Band 17 (Middle Channel) |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.71 |
|                              | 16QAM      | 50      | 0         | 5.71 |

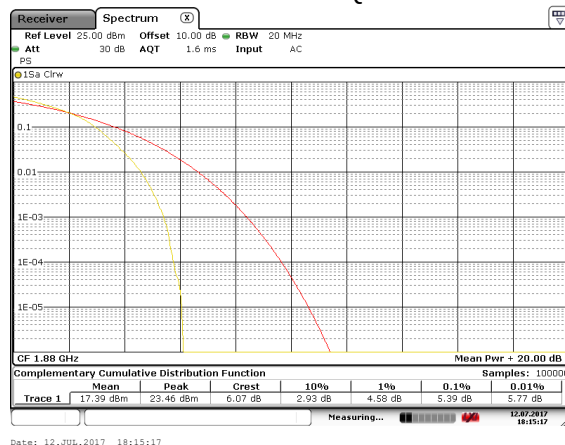
Test plots as below:

## LTE Band 2 Middle channel

Modulation: QPSK

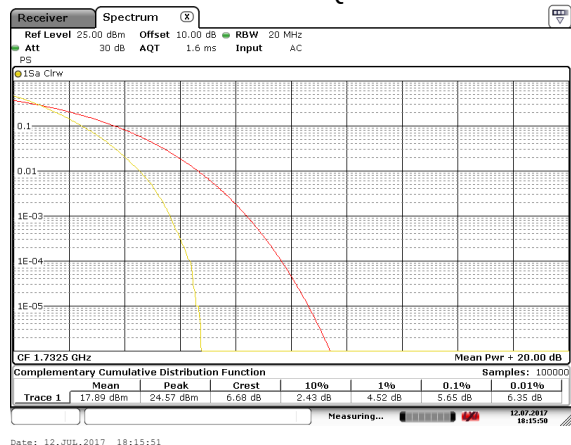


Modulation:16QAM

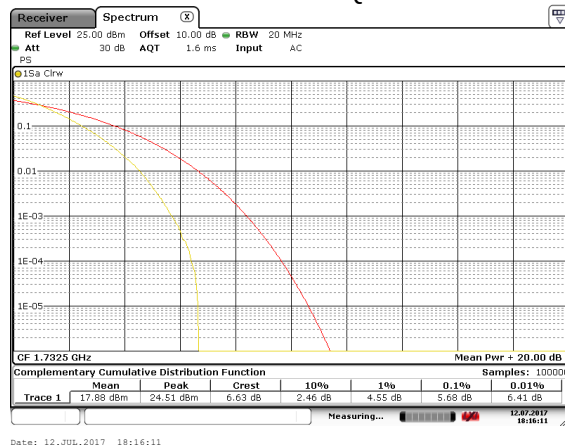


## LTE Band 4 Middle channel

Modulation: QPSK

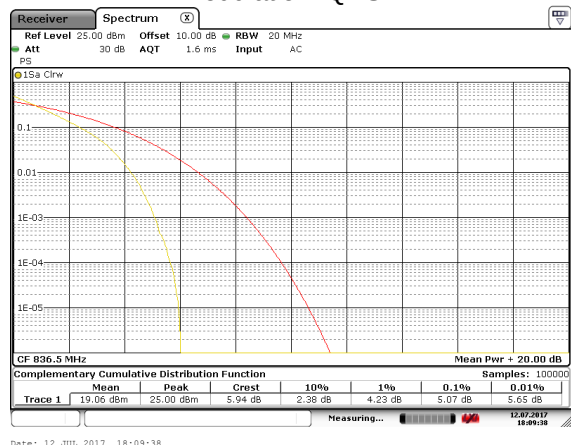


Modulation:16QAM

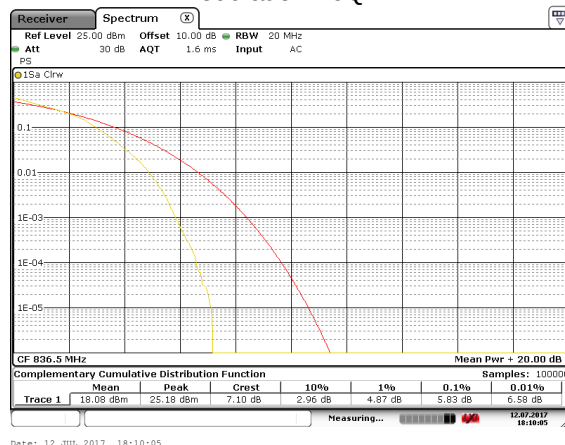


## LTE Band 5 Middle channel

Modulation: QPSK

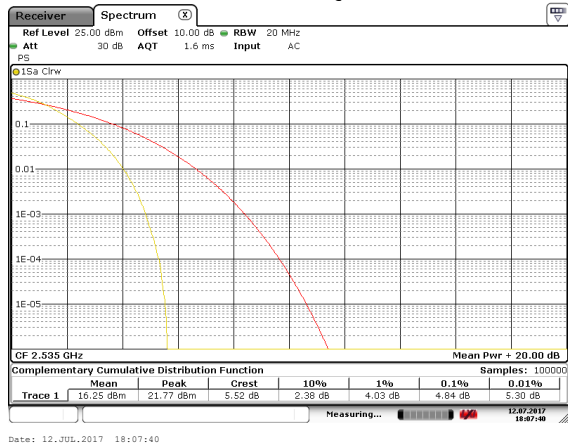


Modulation:16QAM

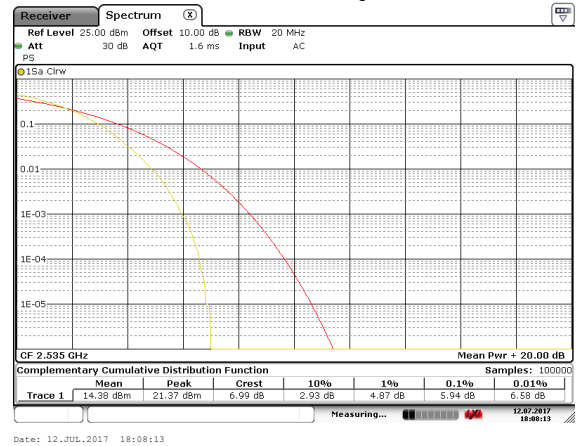


## LTE Band 7 Middle channel

Modulation: QPSK

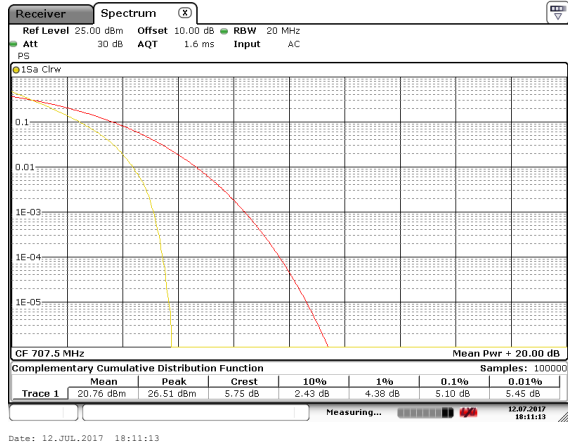


Modulation:16QAM

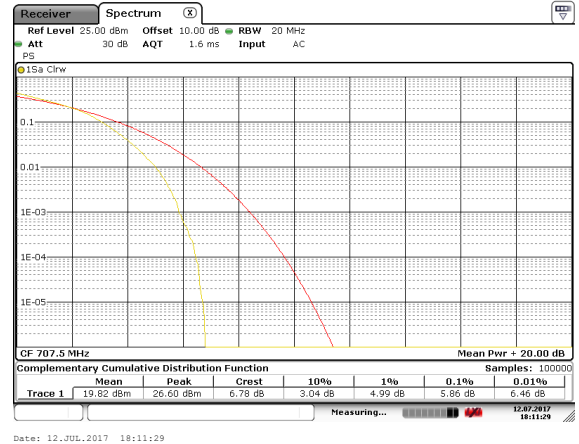


## LTE Band 12 Middle channel

Modulation: QPSK

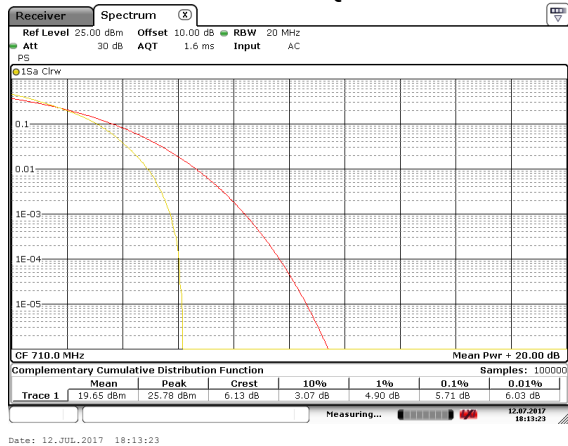


Modulation:16QAM

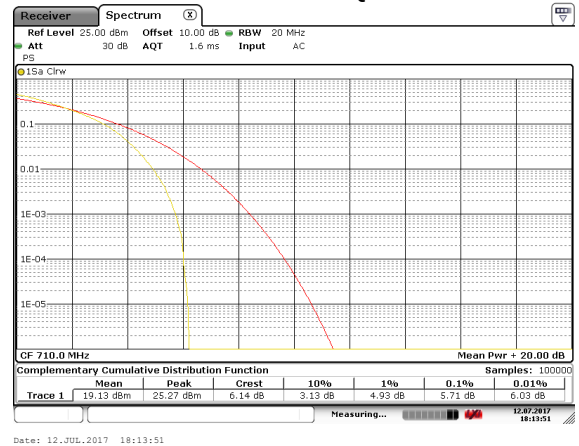


## LTE Band 17 Middle channel

Modulation: QPSK

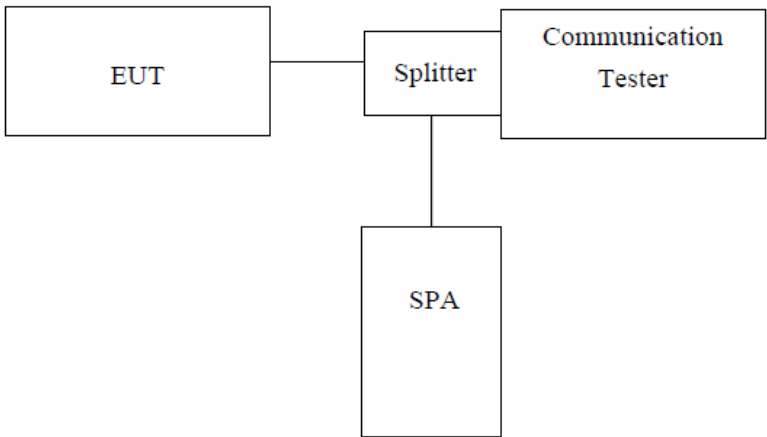


Modulation:16QAM





## 6.7 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 22.917(b), Part 24.238, part 27.53(g), part 27.53(h), Part 27.53(m)                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1049                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></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 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                              |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                              |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Measurement Data:**

**LTE Band 2 part:**

| EUT Mode | Channel | Frequency(MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
|----------|---------|----------------|------------|---------------|-----------------|
| 1.4MHz   | 18607   | 1850.70        | 16QAM      | 1092          | 1266            |
|          |         |                | QPSK       | 1092          | 1278            |
|          | 18900   | 1880.00        | 16QAM      | 1098          | 1254            |
|          |         |                | QPSK       | 1092          | 1278            |
|          | 19193   | 1909.30        | 16QAM      | 1098          | 1266            |
|          |         |                | QPSK       | 1098          | 1266            |
| 3MHz     | 18615   | 1851.50        | 16QAM      | 2736          | 3024            |
|          |         |                | QPSK       | 2736          | 3036            |
|          | 18900   | 1880.00        | 16QAM      | 2736          | 3024            |
|          |         |                | QPSK       | 2724          | 3048            |
|          | 19185   | 1908.50        | 16QAM      | 2736          | 3012            |
|          |         |                | QPSK       | 2736          | 3024            |
| 5MHz     | 18625   | 1852.50        | 16QAM      | 4520          | 4980            |
|          |         |                | QPSK       | 4520          | 5000            |
|          | 18900   | 1880.00        | 16QAM      | 4520          | 5020            |
|          |         |                | QPSK       | 4520          | 5000            |
|          | 19175   | 1907.50        | 16QAM      | 4520          | 5060            |
|          |         |                | QPSK       | 4540          | 4980            |
| 10MHz    | 18650   | 1855.00        | 16QAM      | 9120          | 10200           |
|          |         |                | QPSK       | 9120          | 10400           |
|          | 18900   | 1880.00        | 16QAM      | 9080          | 10160           |
|          |         |                | QPSK       | 9120          | 10280           |
|          | 19150   | 1905.00        | 16QAM      | 9080          | 10200           |
|          |         |                | QPSK       | 9080          | 10200           |
| 15MHz    | 18675   | 1857.50        | 16QAM      | 13620         | 15000           |
|          |         |                | QPSK       | 13620         | 15000           |
|          | 18900   | 1880.00        | 16QAM      | 13560         | 15000           |
|          |         |                | QPSK       | 13620         | 15060           |
|          | 19125   | 1902.50        | 16QAM      | 13560         | 14940           |
|          |         |                | QPSK       | 13560         | 14940           |
| 20MHz    | 18700   | 1860.00        | 16QAM      | 18000         | 19600           |
|          |         |                | QPSK       | 18000         | 19600           |
|          | 18900   | 1880.00        | 16QAM      | 18000         | 19360           |
|          |         |                | QPSK       | 18000         | 19760           |
|          | 19100   | 1900.00        | 16QAM      | 17920         | 19440           |
|          |         |                | QPSK       | 17920         | 19440           |

**LTE Band 4 part:**

| EUT Mode | Channel | Frequency(MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
|----------|---------|----------------|------------|---------------|-----------------|
| 1.4MHz   | 19957   | 1710.7         | 16QAM      | 1098          | 1266            |
|          |         |                | QPSK       | 1092          | 1272            |
|          | 20175   | 1732.5         | 16QAM      | 1098          | 1260            |
|          |         |                | QPSK       | 1092          | 1284            |
|          | 20393   | 1754.3         | 16QAM      | 1098          | 1260            |
|          |         |                | QPSK       | 1092          | 1272            |
| 3MHz     | 19965   | 1711.5         | 16QAM      | 2736          | 3036            |
|          |         |                | QPSK       | 2724          | 3048            |
|          | 20175   | 1732.5         | 16QAM      | 2736          | 3024            |
|          |         |                | QPSK       | 2736          | 3024            |
|          | 20385   | 1750.5         | 16QAM      | 2736          | 3024            |
|          |         |                | QPSK       | 2736          | 3024            |
| 5MHz     | 19975   | 1712.5         | 16QAM      | 4520          | 5040            |
|          |         |                | QPSK       | 4520          | 5120            |
|          | 20175   | 1732.5         | 16QAM      | 4520          | 5020            |
|          |         |                | QPSK       | 4500          | 5040            |
|          | 20375   | 1752.5         | 16QAM      | 4520          | 5000            |
|          |         |                | QPSK       | 4520          | 5060            |
| 10MHz    | 20000   | 1715.0         | 16QAM      | 9120          | 10200           |
|          |         |                | QPSK       | 9160          | 10240           |
|          | 20175   | 1732.5         | 16QAM      | 9080          | 10240           |
|          |         |                | QPSK       | 9120          | 10320           |
|          | 20350   | 1750.0         | 16QAM      | 9120          | 10280           |
|          |         |                | QPSK       | 9120          | 10360           |
| 15MHz    | 20025   | 1717.5         | 16QAM      | 13560         | 15060           |
|          |         |                | QPSK       | 13560         | 15000           |
|          | 20175   | 1732.5         | 16QAM      | 13560         | 14940           |
|          |         |                | QPSK       | 13560         | 15000           |
|          | 20325   | 1747.5         | 16QAM      | 13560         | 14940           |
|          |         |                | QPSK       | 13560         | 15120           |
| 20MHz    | 20050   | 1720.0         | 16QAM      | 18000         | 19520           |
|          |         |                | QPSK       | 18000         | 19440           |
|          | 20175   | 1732.5         | 16QAM      | 18000         | 19360           |
|          |         |                | QPSK       | 18000         | 19520           |
|          | 20300   | 1745.0         | 16QAM      | 18000         | 19600           |
|          |         |                | QPSK       | 18000         | 196000          |

## LTE Band 5 part:

| EUT Mode | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dB EBW (kHz) |
|----------|---------|-----------------|------------|---------------|-----------------|
| 1.4MHz   | 20407   | 824.70          | 16QAM      | 1098          | 1260            |
|          |         |                 | QPSK       | 1098          | 1272            |
|          | 20525   | 836.50          | 16QAM      | 1098          | 1260            |
|          |         |                 | QPSK       | 1098          | 1260            |
|          | 20643   | 848.30          | 16QAM      | 1098          | 1272            |
|          |         |                 | QPSK       | 1092          | 1278            |
| 3MHz     | 20415   | 825.50          | 16QAM      | 2736          | 3036            |
|          |         |                 | QPSK       | 2736          | 3024            |
|          | 20525   | 836.50          | 16QAM      | 2724          | 3036            |
|          |         |                 | QPSK       | 2736          | 3036            |
|          | 20635   | 847.50          | 16QAM      | 2736          | 3036            |
|          |         |                 | QPSK       | 2736          | 3036            |
| 5MHz     | 20425   | 826.50          | 16QAM      | 4500          | 5000            |
|          |         |                 | QPSK       | 4520          | 4980            |
|          | 20525   | 836.50          | 16QAM      | 4520          | 5060            |
|          |         |                 | QPSK       | 4520          | 5040            |
|          | 20625   | 846.50          | 16QAM      | 4500          | 5040            |
|          |         |                 | QPSK       | 4520          | 4960            |
| 10MHz    | 20450   | 829.00          | 16QAM      | 9120          | 10240           |
|          |         |                 | QPSK       | 9120          | 10320           |
|          | 20525   | 836.50          | 16QAM      | 9080          | 10200           |
|          |         |                 | QPSK       | 9120          | 10240           |
|          | 20600   | 844.00          | 16QAM      | 9120          | 10160           |
|          |         |                 | QPSK       | 9120          | 10240           |

## LTE Band 7 part:

| EUT Mode | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dB EBW (kHz) |
|----------|---------|-----------------|------------|---------------|-----------------|
| 5MHz     | 20775   | 2502.5          | 16QAM      | 4500          | 4960            |
|          |         |                 | QPSK       | 4520          | 5040            |
|          | 21100   | 2535.0          | 16QAM      | 4500          | 5060            |
|          |         |                 | QPSK       | 4540          | 5040            |
|          | 21425   | 2567.5          | 16QAM      | 4520          | 5000            |
|          |         |                 | QPSK       | 4500          | 5000            |
| 10MHz    | 20800   | 2505.0          | 16QAM      | 9160          | 10160           |
|          |         |                 | QPSK       | 9120          | 10280           |
|          | 21100   | 2535.0          | 16QAM      | 9080          | 10160           |
|          |         |                 | QPSK       | 9120          | 10200           |
|          | 21400   | 2565.0          | 16QAM      | 9040          | 10160           |
|          |         |                 | QPSK       | 9080          | 10200           |
| 15MHz    | 20825   | 2507.5          | 16QAM      | 13560         | 14940           |
|          |         |                 | QPSK       | 13560         | 15000           |
|          | 21100   | 2535.0          | 16QAM      | 13500         | 14820           |
|          |         |                 | QPSK       | 13500         | 15000           |
|          | 21375   | 2562.5          | 16QAM      | 13440         | 14880           |
|          |         |                 | QPSK       | 13440         | 14820           |
| 20MHz    | 20850   | 2510.0          | 16QAM      | 18080         | 19520           |
|          |         |                 | QPSK       | 18000         | 19680           |
|          | 21100   | 2535.0          | 16QAM      | 17920         | 19440           |
|          |         |                 | QPSK       | 18000         | 19520           |
|          | 21350   | 2560.0          | 16QAM      | 17920         | 19200           |
|          |         |                 | QPSK       | 17840         | 19360           |

**LTE Band 12 part:**

| EUT Mode | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dB EBW (kHz) |
|----------|---------|-----------------|------------|---------------|-----------------|
| 1.4MHz   | 23017   | 699.70          | 16QAM      | 1104          | 1254            |
|          |         |                 | QPSK       | 1098          | 1254            |
|          | 23095   | 707.50          | 16QAM      | 1098          | 1272            |
|          |         |                 | QPSK       | 1104          | 1266            |
|          | 23175   | 715.30          | 16QAM      | 1104          | 1266            |
|          |         |                 | QPSK       | 1104          | 1278            |
| 3MHz     | 23025   | 700.50          | 16QAM      | 2724          | 3012            |
|          |         |                 | QPSK       | 2736          | 3024            |
|          | 23095   | 707.50          | 16QAM      | 2724          | 3012            |
|          |         |                 | QPSK       | 2736          | 3036            |
|          | 23165   | 714.50          | 16QAM      | 2724          | 3024            |
|          |         |                 | QPSK       | 2724          | 3036            |
| 5MHz     | 23035   | 701.50          | 16QAM      | 4480          | 4980            |
|          |         |                 | QPSK       | 4500          | 4940            |
|          | 23095   | 707.50          | 16QAM      | 4540          | 5020            |
|          |         |                 | QPSK       | 4520          | 4980            |
|          | 23155   | 713.50          | 16QAM      | 4520          | 5020            |
|          |         |                 | QPSK       | 4520          | 4980            |
| 10MHz    | 23060   | 704.00          | 16QAM      | 9080          | 10240           |
|          |         |                 | QPSK       | 9120          | 10320           |
|          | 23095   | 707.50          | 16QAM      | 9160          | 10280           |
|          |         |                 | QPSK       | 9200          | 10360           |
|          | 23130   | 711.00          | 16QAM      | 9040          | 10200           |
|          |         |                 | QPSK       | 9080          | 10280           |

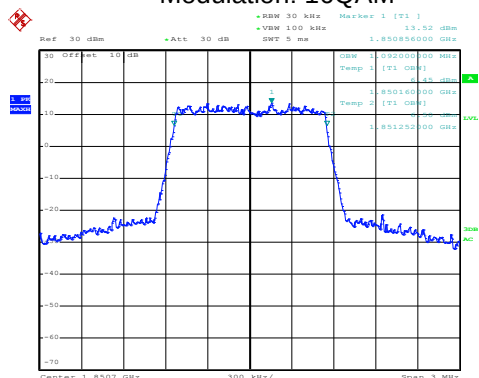
**LTE Band 17 part:**

| EUT Mode | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dB EBW (kHz) |
|----------|---------|-----------------|------------|---------------|-----------------|
| 5MHz     | 23755   | 706.5           | 16QAM      | 4520          | 5000            |
|          |         |                 | QPSK       | 4520          | 5040            |
|          | 23790   | 710.0           | 16QAM      | 4500          | 5020            |
|          |         |                 | QPSK       | 4540          | 5040            |
|          | 23825   | 713.5           | 16QAM      | 4520          | 5000            |
|          |         |                 | QPSK       | 4520          | 4980            |
| 10MHz    | 23780   | 709.0           | 16QAM      | 9120          | 10240           |
|          |         |                 | QPSK       | 9120          | 10200           |
|          | 23790   | 710.0           | 16QAM      | 9120          | 10240           |
|          |         |                 | QPSK       | 9120          | 10280           |
|          | 23800   | 711.0           | 16QAM      | 9040          | 10160           |
|          |         |                 | QPSK       | 9120          | 10240           |

Test plot as follows:  
LTE Band 2 part

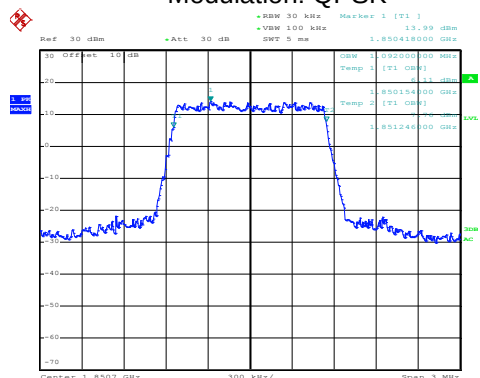
Test Item: 99% Occupancy bandwidth  
BW: 1.4MHz

Modulation: 16QAM



Date: 5.JUL.2017 10:41:07

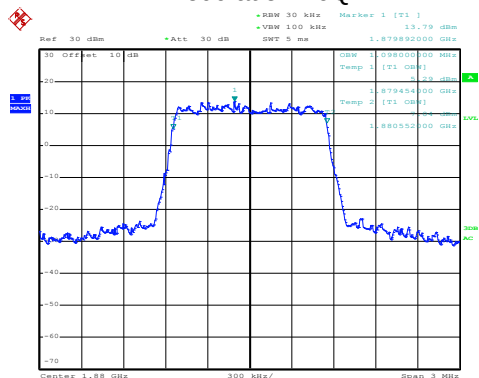
Modulation: QPSK



Date: 5.JUL.2017 10:40:46

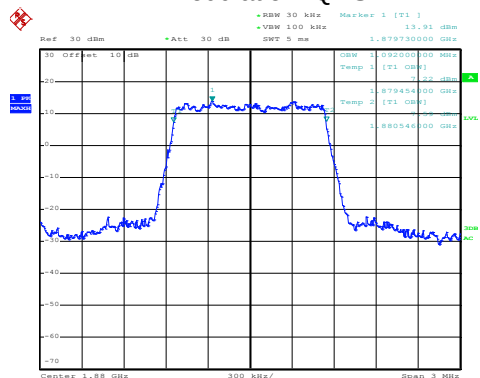
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 10:42:01

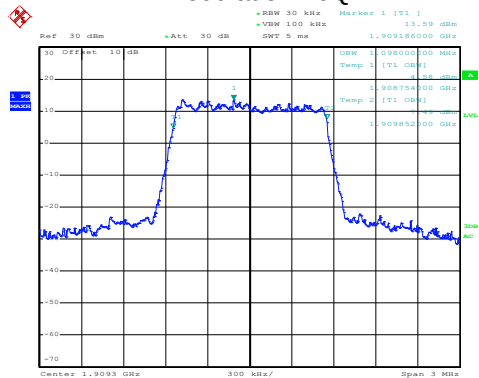
Modulation: QPSK



Date: 5.JUL.2017 10:41:50

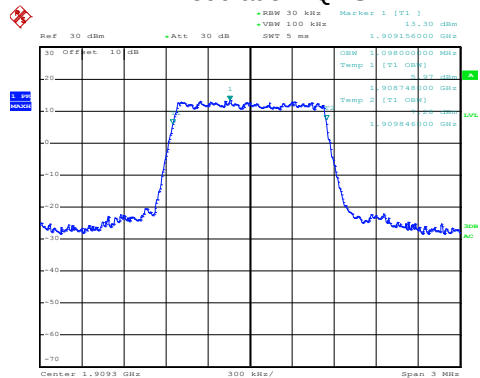
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 10:42:59

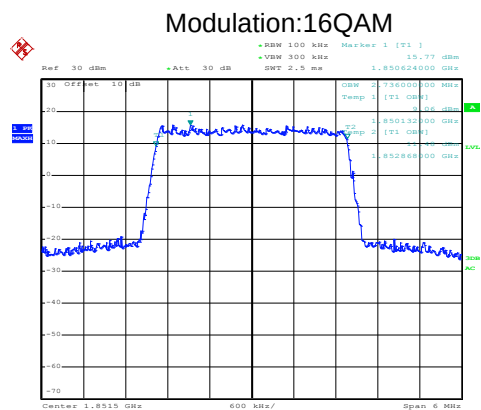
Modulation: QPSK



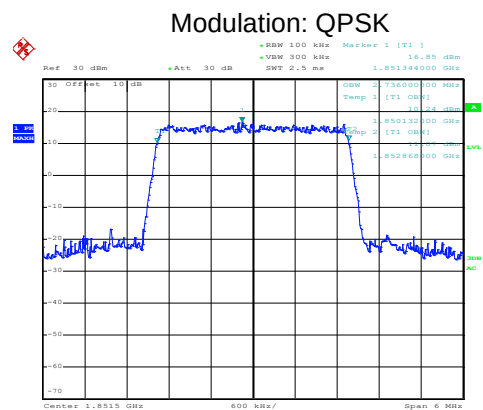
Date: 5.JUL.2017 10:43:12

Highest channel

Test Item:99% Occupy bandwidth  
BW: 3MHz

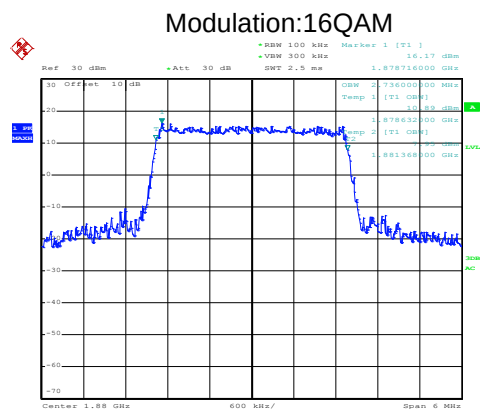


Date: 5.JUL.2017 10:50:53

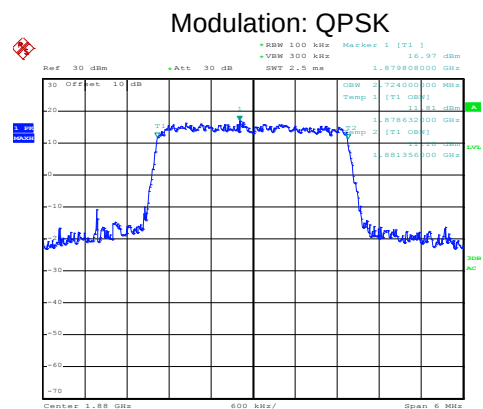


Date: 5.JUL.2017 10:50:41

Lowest channel

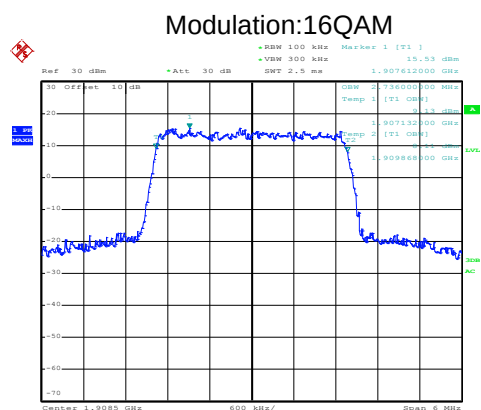


Date: 5.JUL.2017 10:52:07

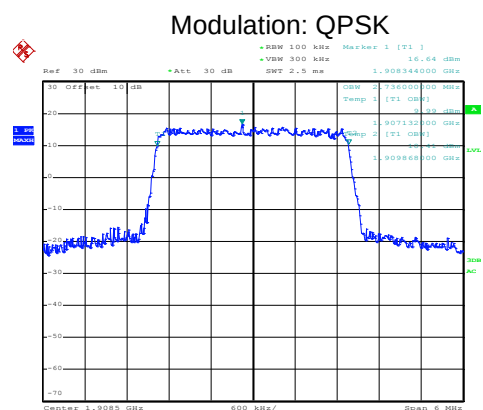


Date: 5.JUL.2017 10:51:51

Middle channel



Date: 5.JUL.2017 10:52:55

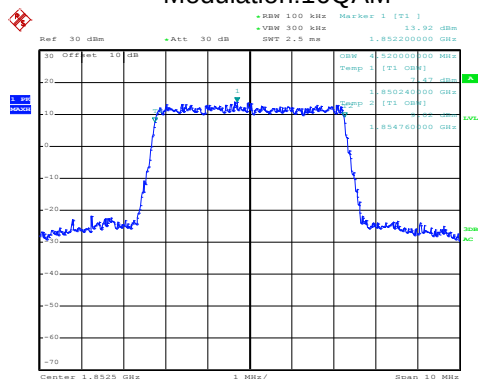


Date: 5.JUL.2017 10:53:06

Highest channel

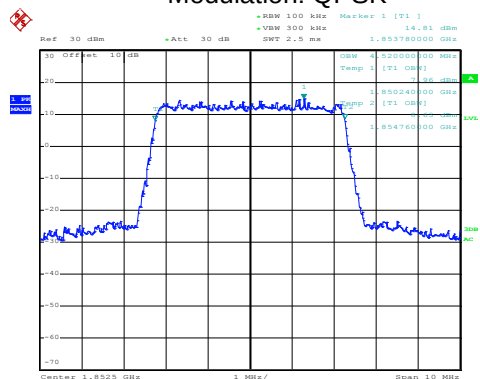
Test Item: 99% Occupancy bandwidth  
BW: 5MHz

Modulation: 16QAM



Date: 5.JUL.2017 11:10:47

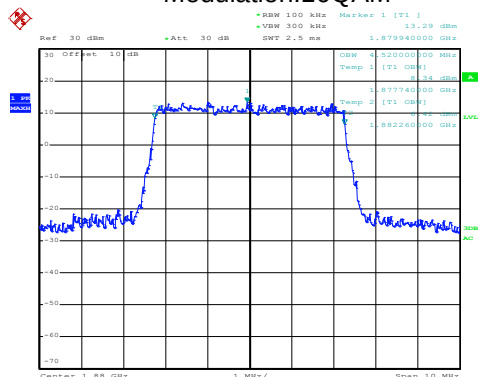
Modulation: QPSK



Date: 5.JUL.2017 11:10:35

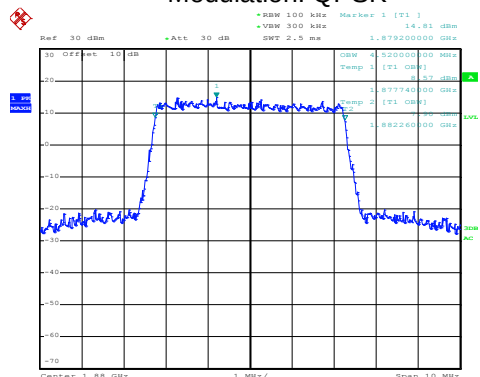
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 11:12:12

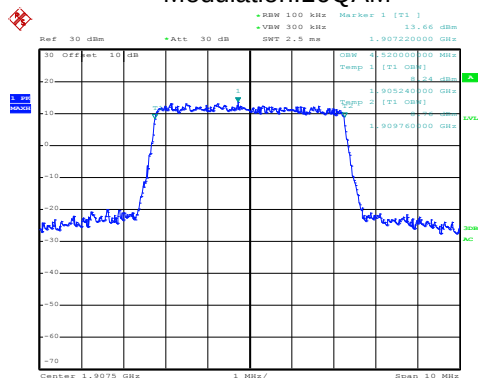
Modulation: QPSK



Date: 5.JUL.2017 11:12:01

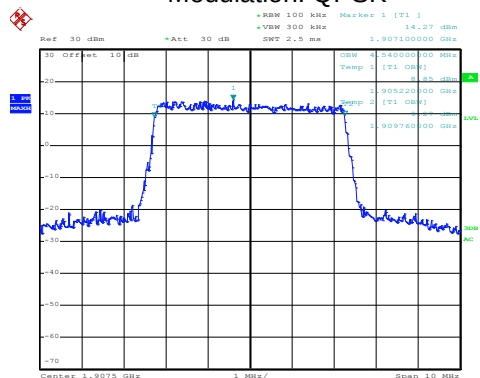
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 11:13:27

Modulation: QPSK



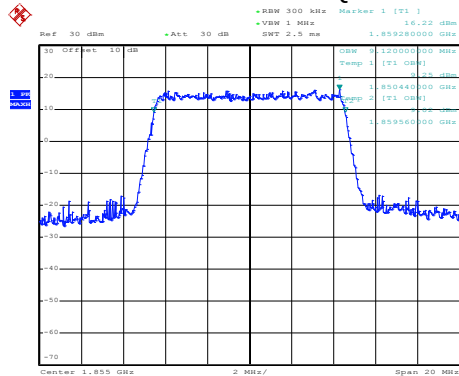
Date: 5.JUL.2017 11:13:09

Highest channel



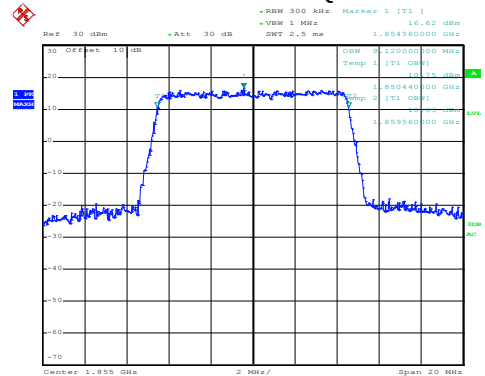
Test Item: 99% Occupancy bandwidth  
BW: 10MHz

Modulation: 16QAM



Date: 5.JUL.2017 11:17:50

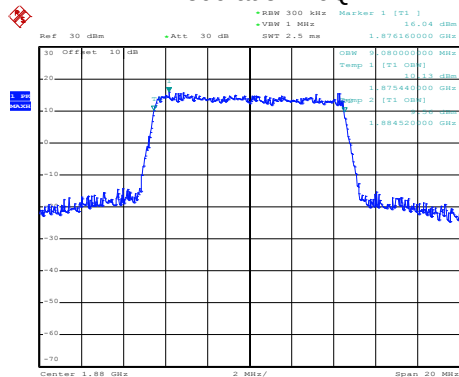
Modulation: QPSK



Date: 5.JUL.2017 11:17:36

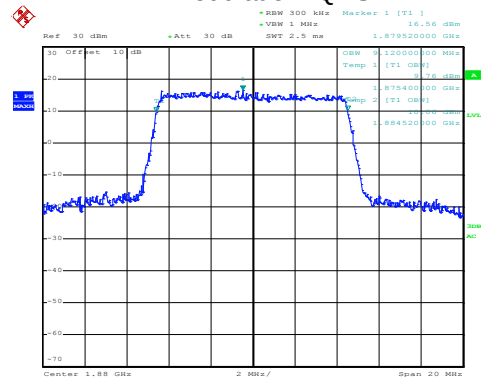
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 11:18:51

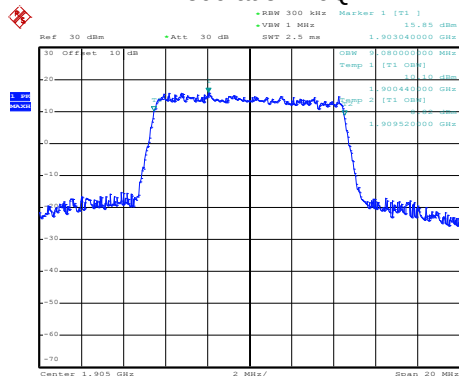
Modulation: QPSK



Date: 5.JUL.2017 11:18:38

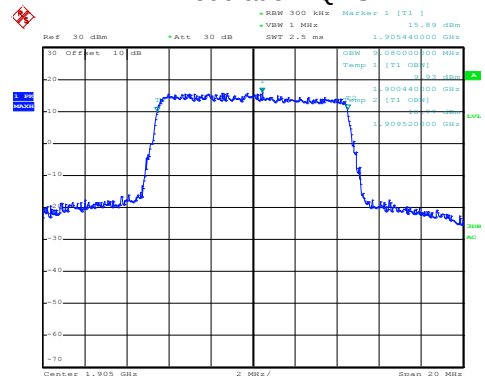
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 11:22:02

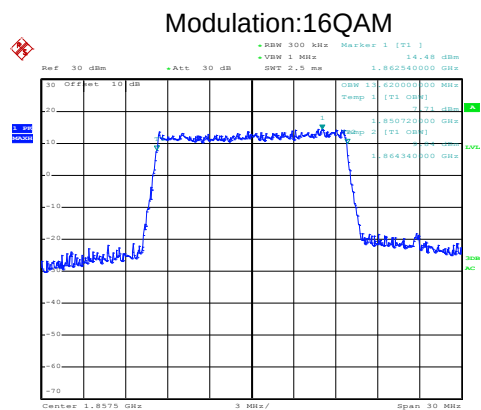
Modulation: QPSK



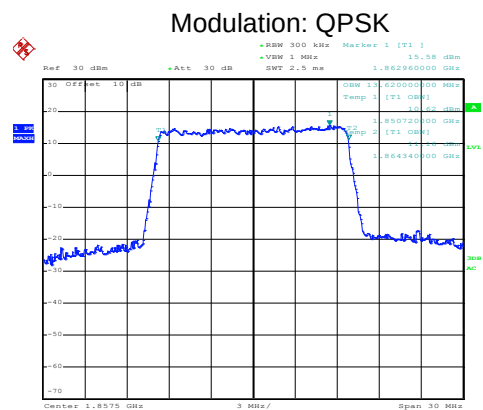
Date: 5.JUL.2017 11:22:35

Highest channel

Test Item:99% Occupy bandwidth  
BW: 15MHz

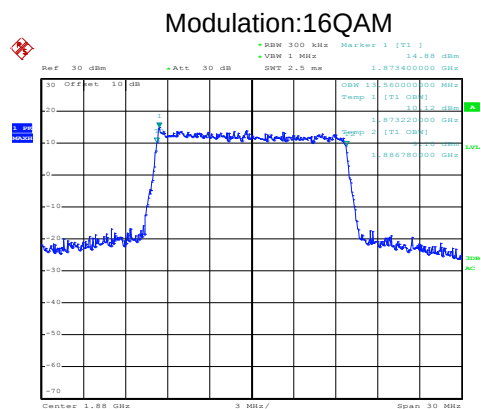


Date: 5.JUL.2017 11:25:44

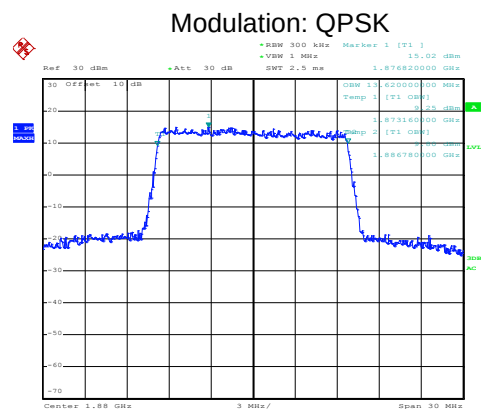


Date: 5.JUL.2017 11:25:11

Lowest channel

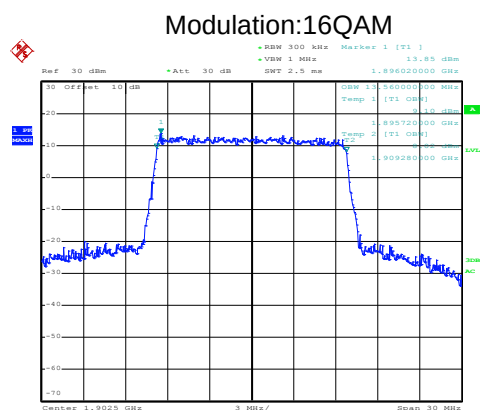


Date: 5.JUL.2017 11:29:53

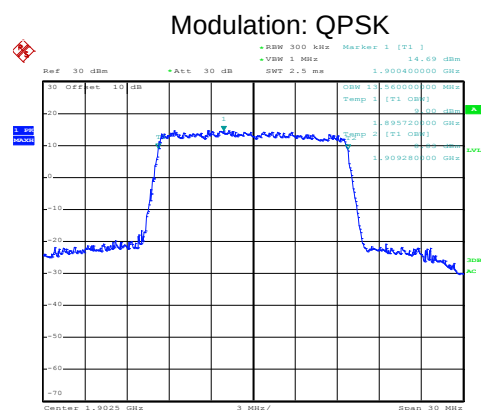


Date: 5.JUL.2017 11:29:18

Middle channel



Date: 5.JUL.2017 11:28:56

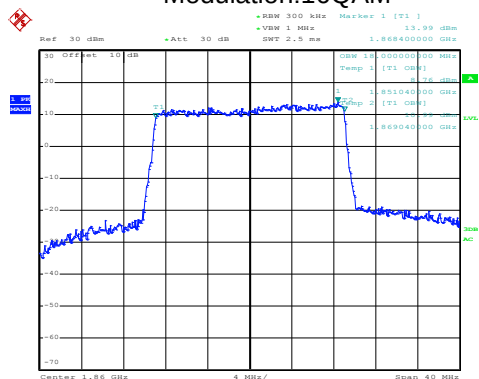


Date: 5.JUL.2017 11:27:28

Highest channel

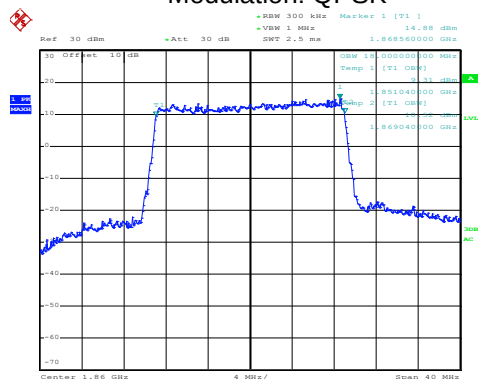
Test Item: 99% Occupancy bandwidth  
BW: 20MHz

Modulation: 16QAM



Date: 5.JUL.2017 11:32:07

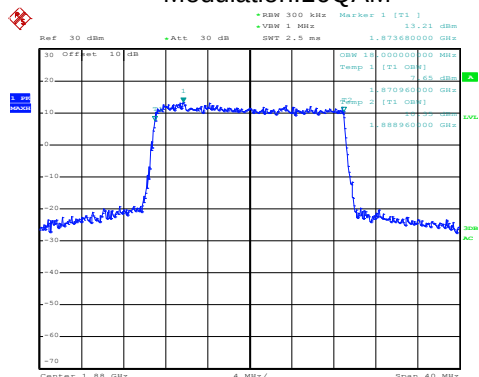
Modulation: QPSK



Date: 5.JUL.2017 11:31:19

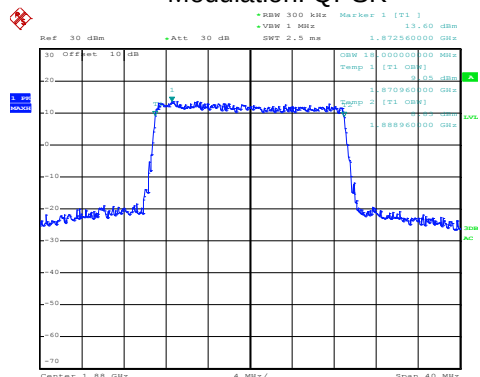
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 11:33:16

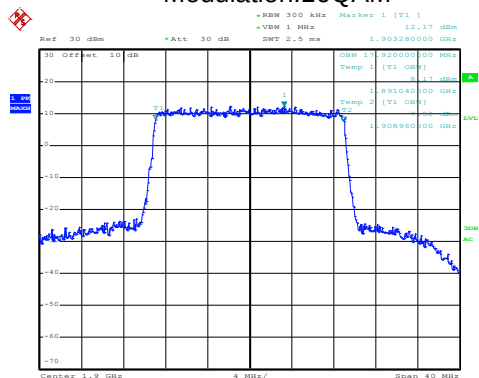
Modulation: QPSK



Date: 5.JUL.2017 11:33:00

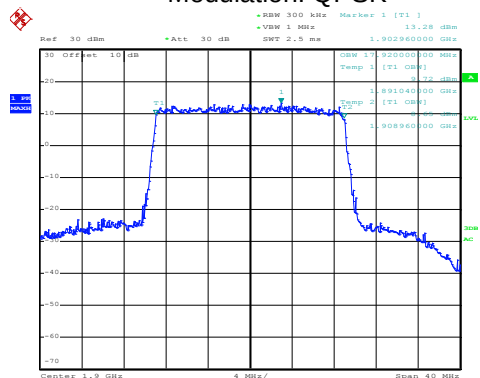
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 11:34:08

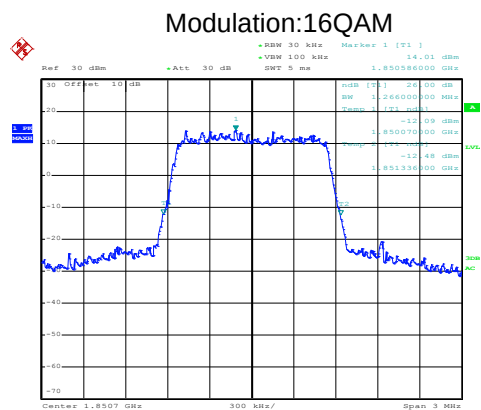
Modulation: QPSK



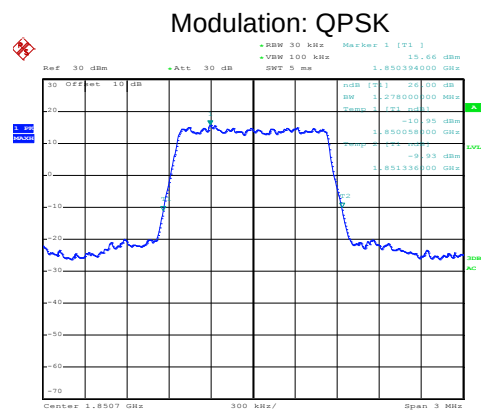
Date: 5.JUL.2017 11:33:57

Highest channel

Test Item:-26dBc bandwidth  
BW: 1.4MHz

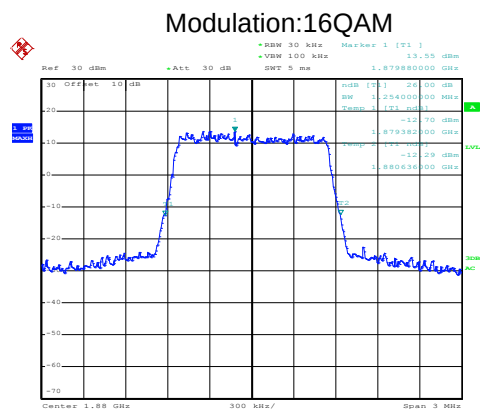


Date: 5.JUL.2017 10:41:17

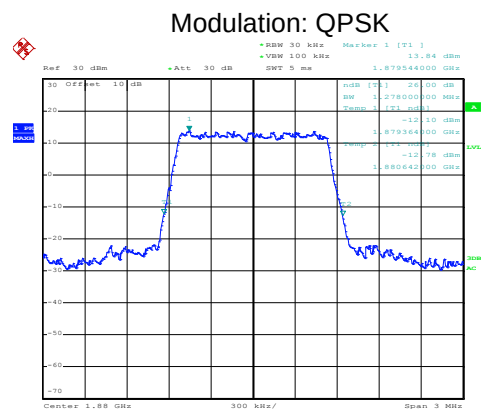


Date: 5.JUL.2017 10:40:34

Lowest channel

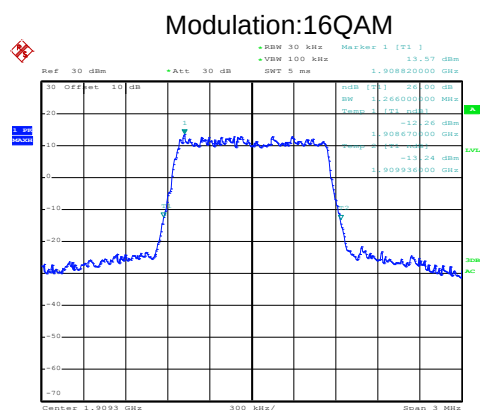


Date: 5.JUL.2017 10:42:10

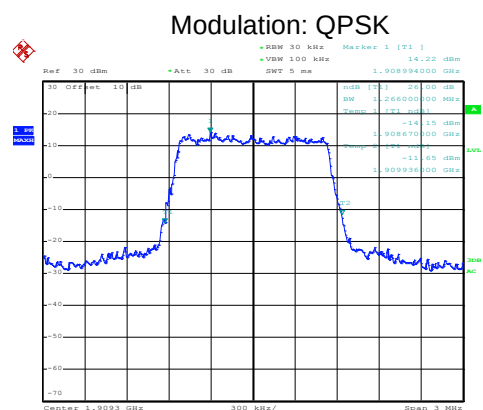


Date: 5.JUL.2017 10:41:41

Middle channel



Date: 5.JUL.2017 10:42:45

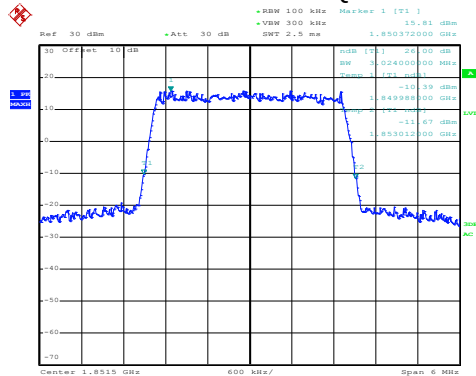


Date: 5.JUL.2017 10:43:22

Highest channel

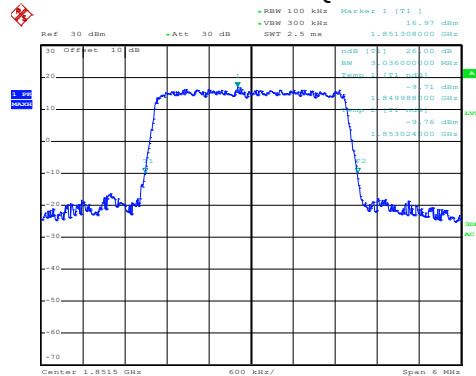
Test Item:-26dBc bandwidth  
BW: 3MHz

Modulation:16QAM



Date: 5.JUL.2017 10:51:05

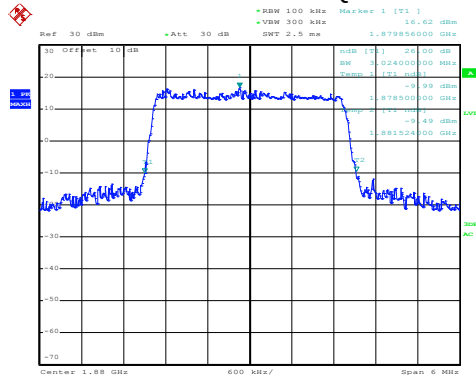
Modulation: QPSK



Date: 5.JUL.2017 10:50:32

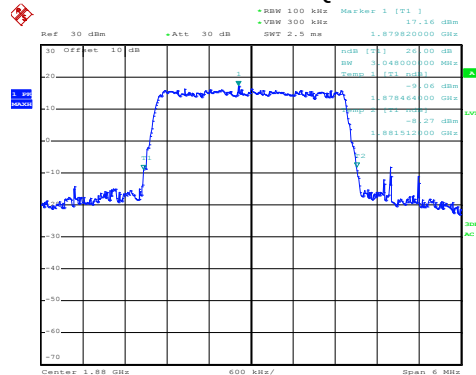
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 10:52:17

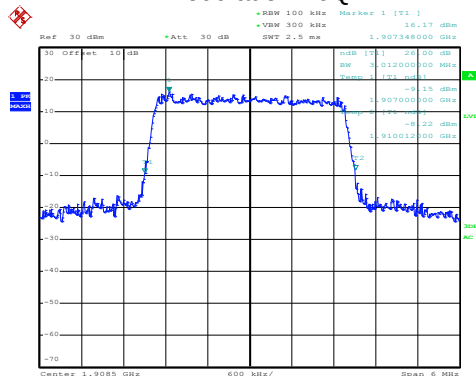
Modulation: QPSK



Date: 5.JUL.2017 10:51:42

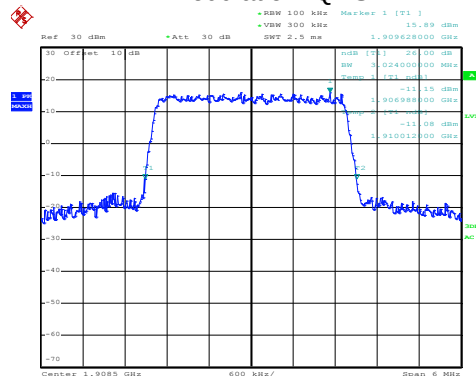
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 10:52:45

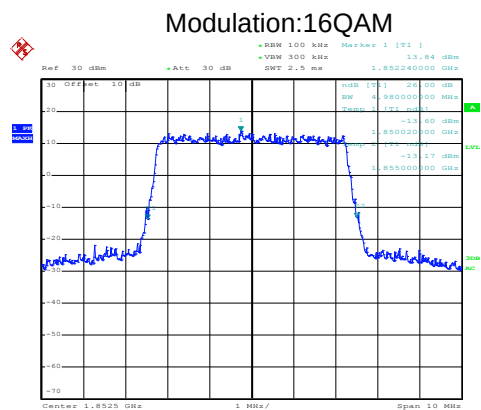
Modulation: QPSK



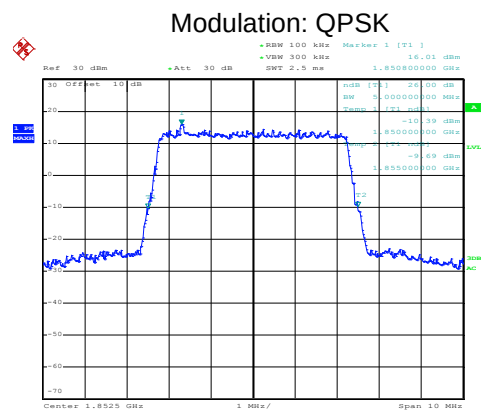
Date: 5.JUL.2017 10:53:15

Highest channel

Test Item:-26dBc bandwidth  
BW: 5MHz

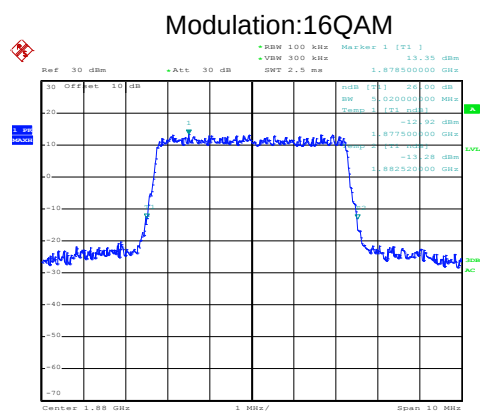


Date: 5.JUL.2017 11:10:56

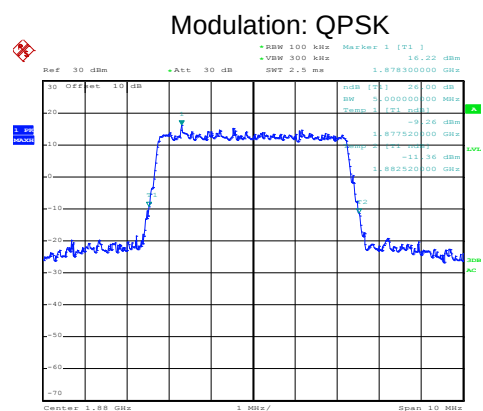


Date: 5.JUL.2017 11:10:22

Lowest channel

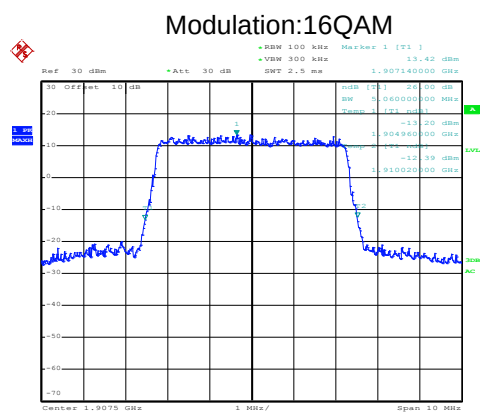


Date: 5.JUL.2017 11:12:23

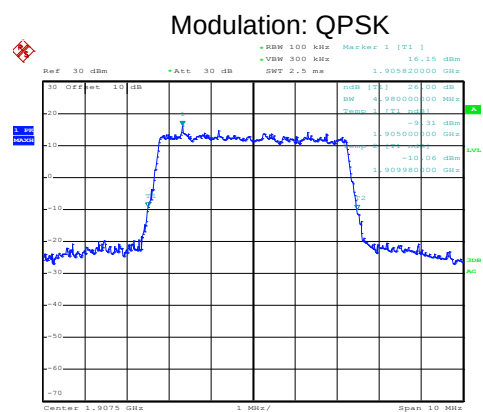


Date: 5.JUL.2017 11:11:51

Middle channel



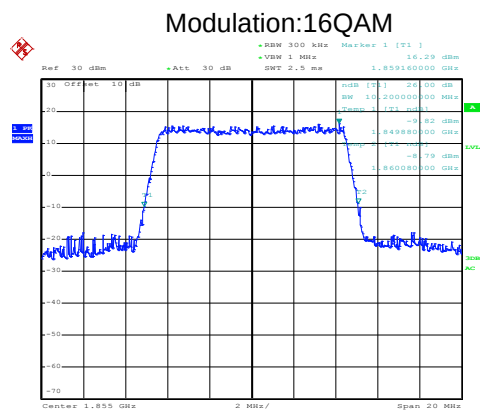
Date: 5.JUL.2017 11:13:41



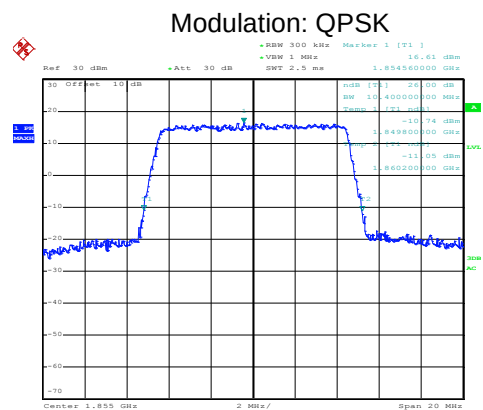
Date: 5.JUL.2017 11:12:56

Highest channel

Test Item:-26dBc bandwidth  
BW: 10MHz

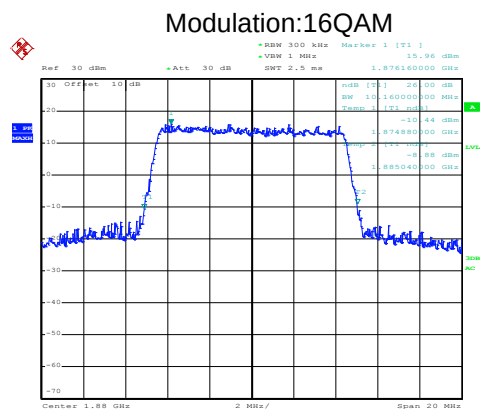


Date: 5.JUL.2017 11:18:00

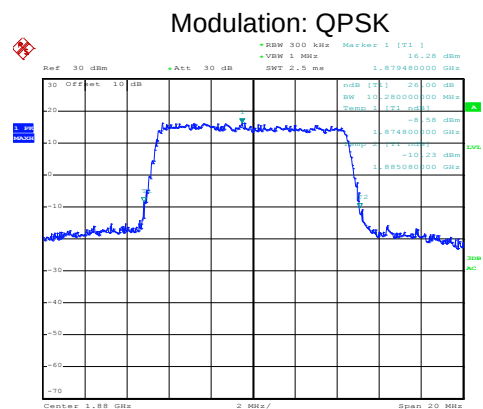


Date: 5.JUL.2017 11:17:22

Lowest channel

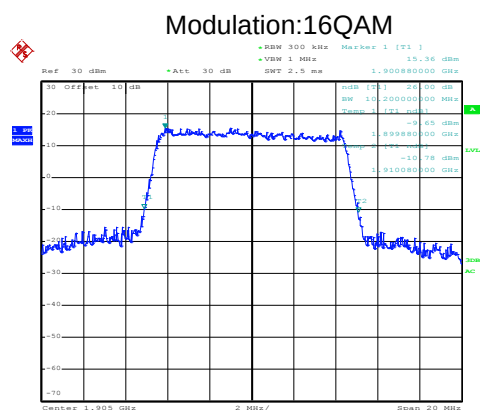


Date: 5.JUL.2017 11:19:03

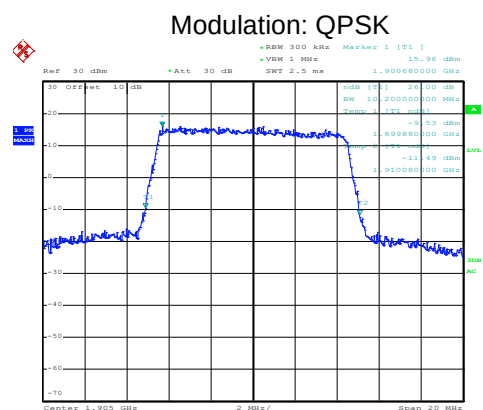


Date: 5.JUL.2017 11:18:27

Middle channel



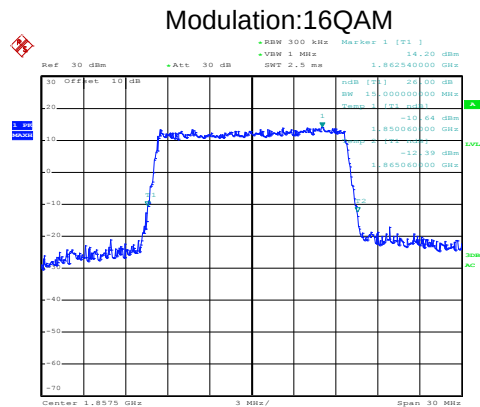
Date: 5.JUL.2017 11:22:13



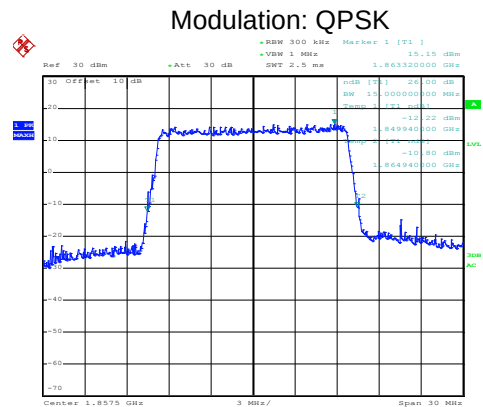
Date: 5.JUL.2017 11:22:26

Highest channel

Test Item:-26dBc bandwidth  
BW: 15MHz

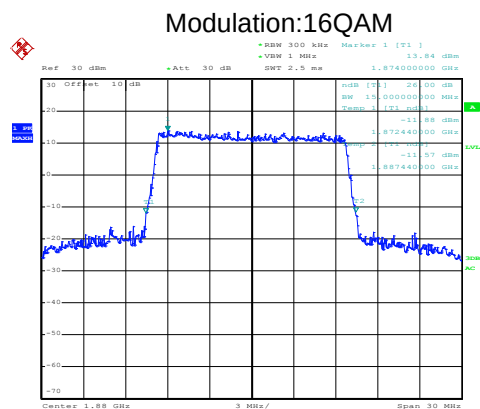


Date: 5.JUL.2017 11:25:34

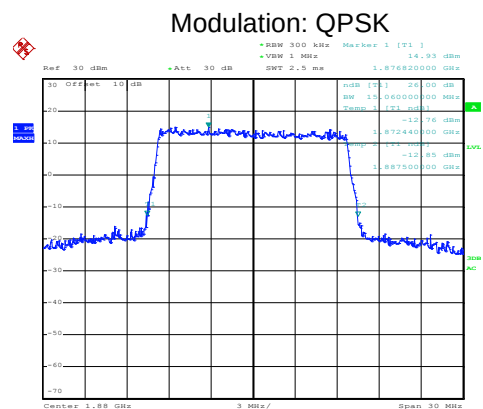


Date: 5.JUL.2017 11:25:22

Lowest channel

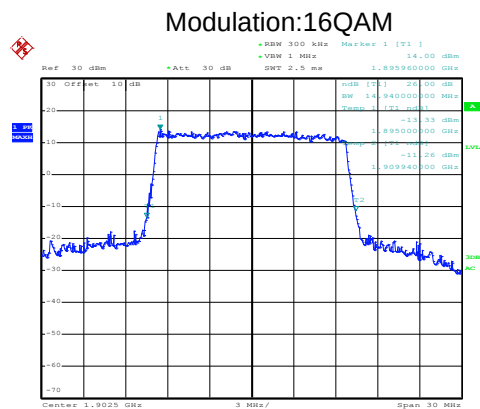


Date: 5.JUL.2017 11:29:40

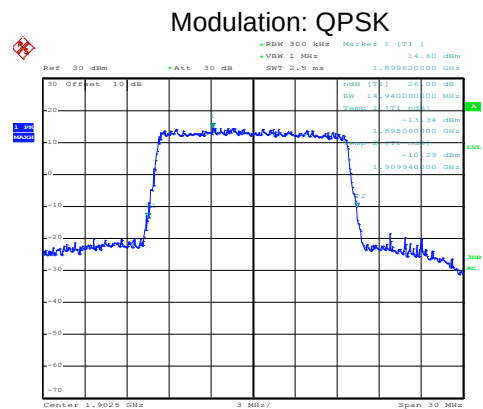


Date: 5.JUL.2017 11:29:29

Middle channel



Date: 5.JUL.2017 11:28:45



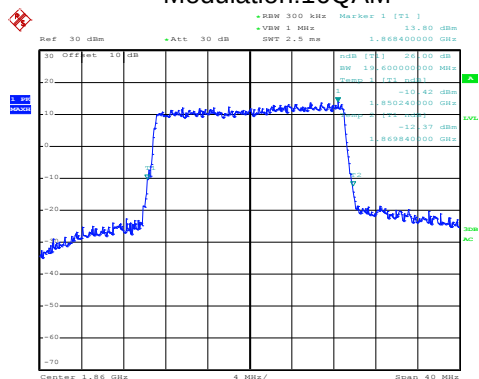
Date: 5.JUL.2017 11:27:43

Highest channel



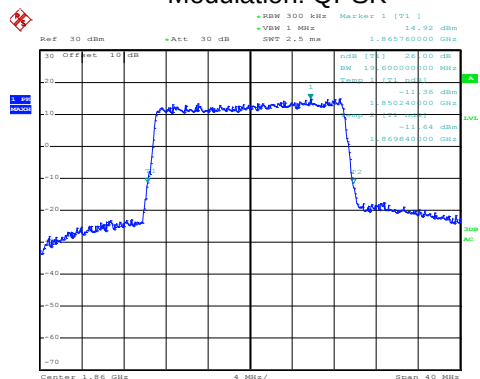
Test Item:-26dBc bandwidth  
BW: 20MHz

Modulation:16QAM



Date: 5.JUL.2017 11:32:19

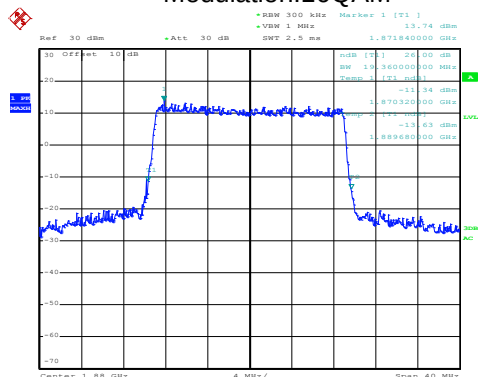
Modulation: QPSK



Date: 5.JUL.2017 11:31:38

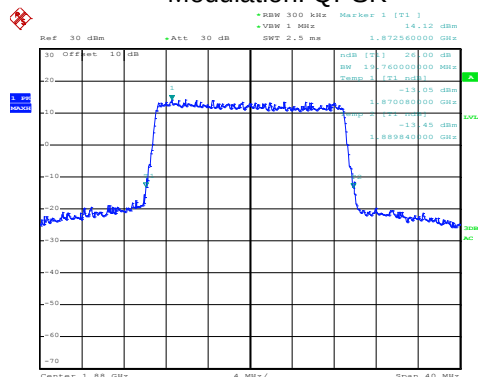
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:33:25

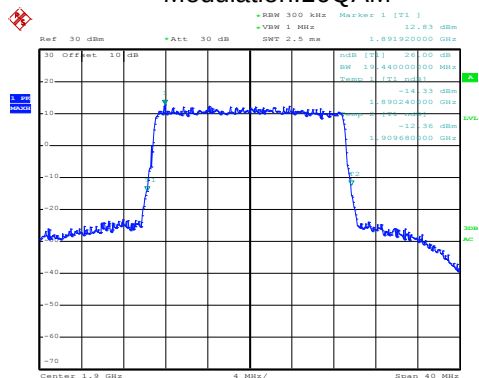
Modulation: QPSK



Date: 5.JUL.2017 11:32:49

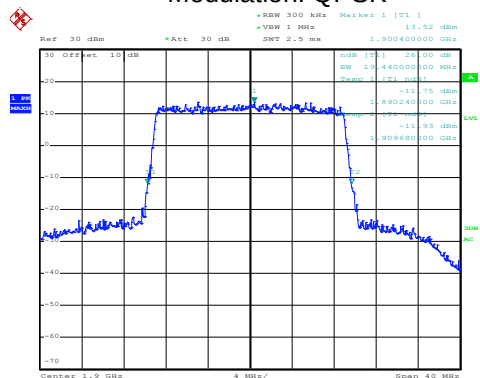
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:34:21

Modulation: QPSK



Date: 5.JUL.2017 11:33:47

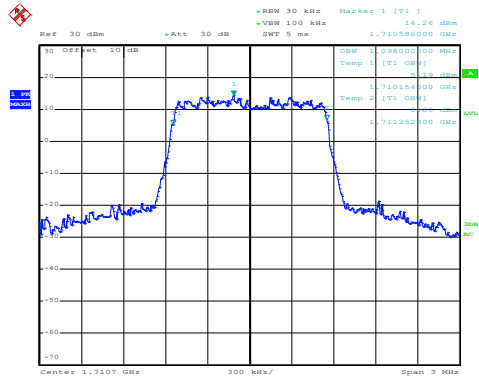
Highest channel

## LTE Band 4 part

Test Item:99% Occupy bandwidth

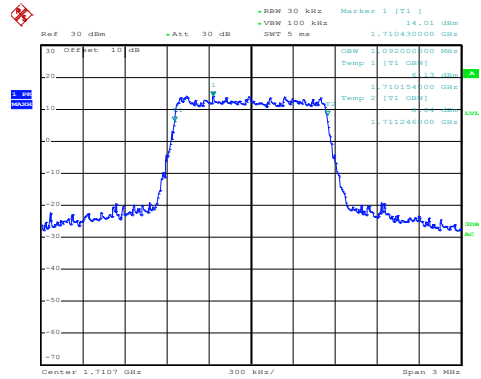
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 11:44:48

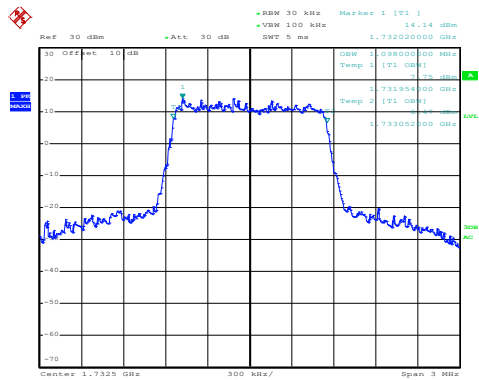
Modulation: QPSK



Date: 5.JUL.2017 11:44:35

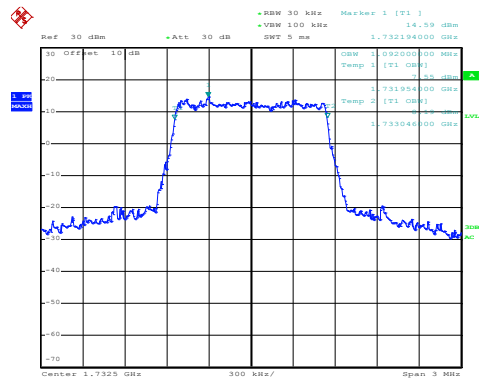
## Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:45:35

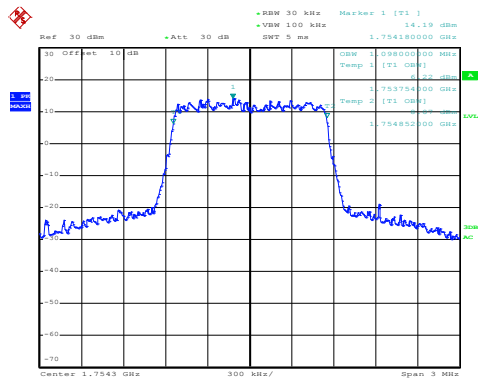
Modulation: QPSK



Date: 5.JUL.2017 11:45:45

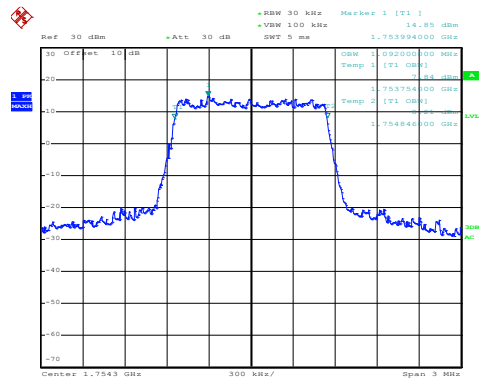
## Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:46:42

Modulation: QPSK

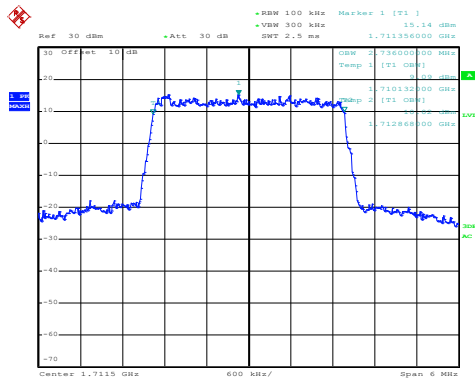


Date: 5.JUL.2017 11:46:32

## Highest channel

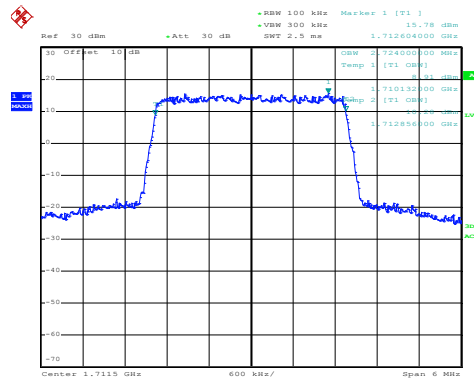
Test Item:99% Occupy bandwidth  
BW: 3MHz

Modulation:16QAM



Date: 5.JUL.2017 11:48:39

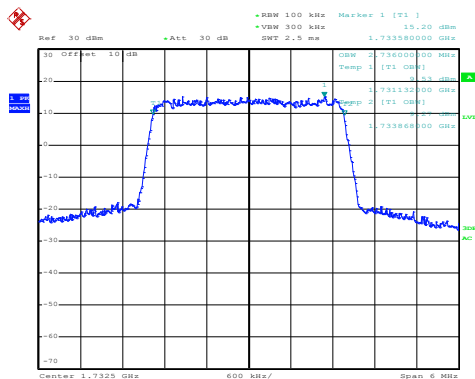
Modulation: QPSK



Date: 5.JUL.2017 11:48:28

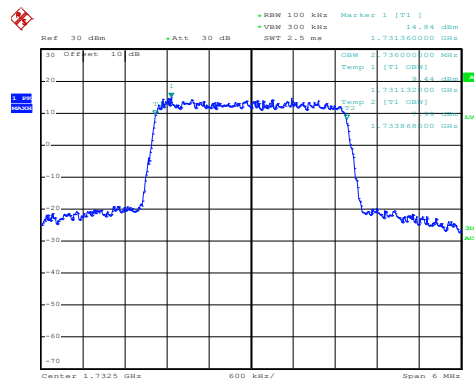
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:49:37

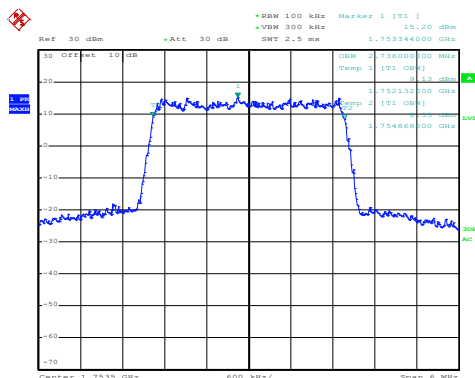
Modulation: QPSK



Date: 5.JUL.2017 11:49:27

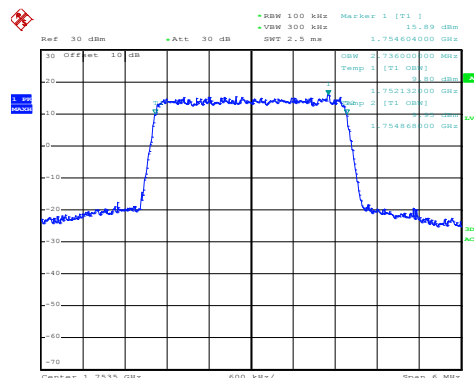
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:50:32

Modulation: QPSK

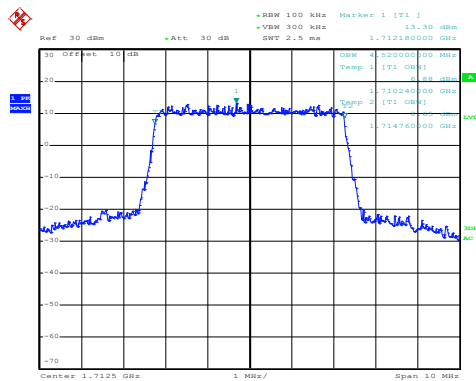


Date: 5.JUL.2017 11:50:22

Highest channel

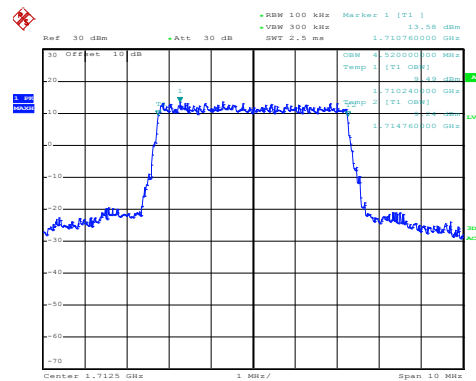
Test Item:99% Occupy bandwidth  
BW: 5MHz

Modulation:16QAM



Date: 5.JUL.2017 11:52:55

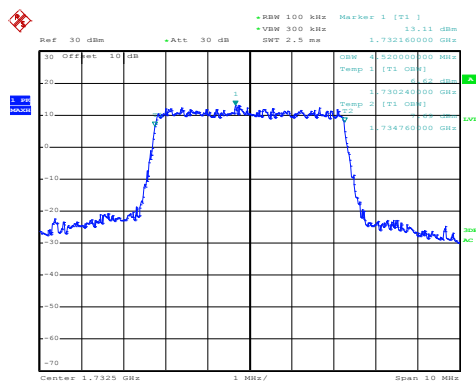
Modulation: QPSK



Date: 5.JUL.2017 11:52:42

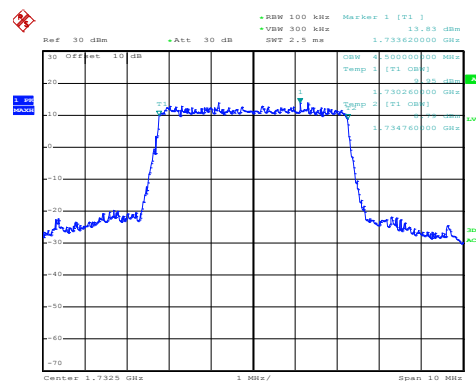
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:55:40

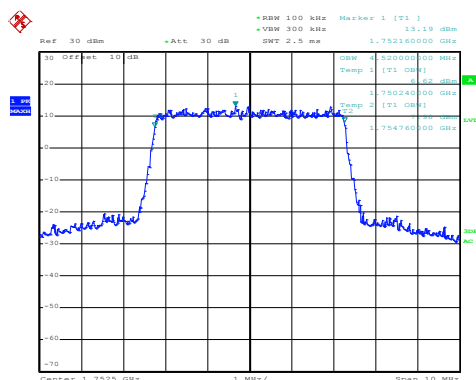
Modulation: QPSK



Date: 5.JUL.2017 11:56:16

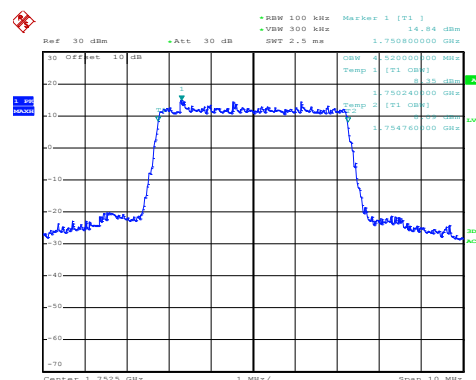
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:55:18

Modulation: QPSK



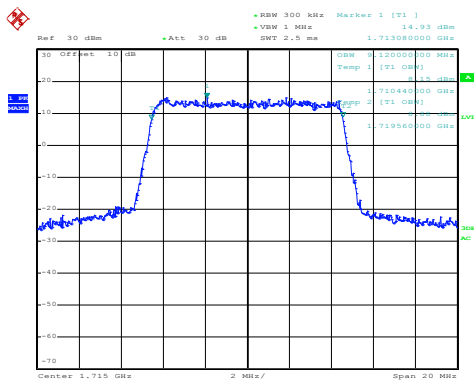
Date: 5.JUL.2017 11:54:33

Highest channel

Test Item:99% Occupy bandwidth

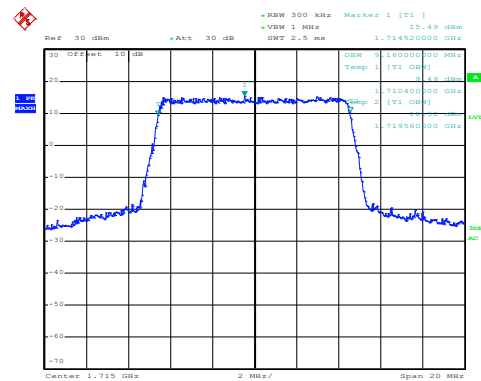
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 11:57:56

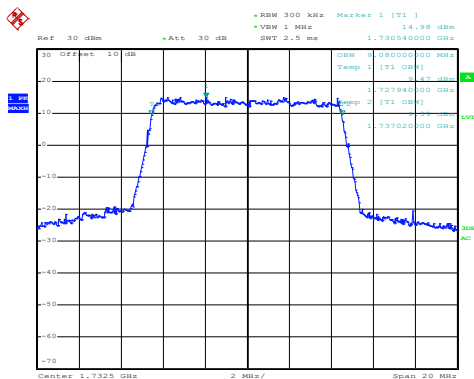
Modulation: QPSK



Date: 5.JUL.2017 11:57:20

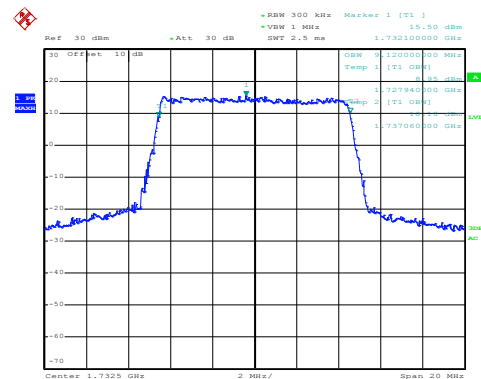
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:58:36

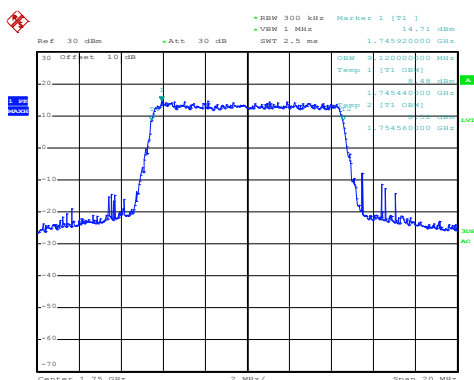
Modulation: QPSK



Date: 5.JUL.2017 11:59:23

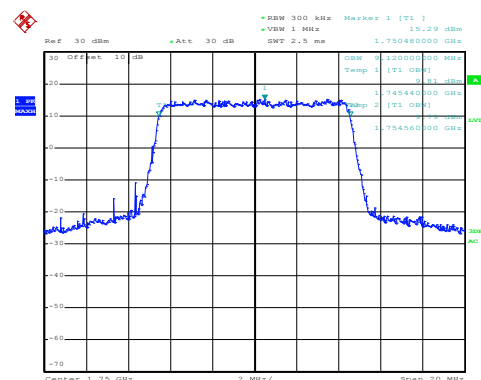
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:00:31

Modulation: QPSK



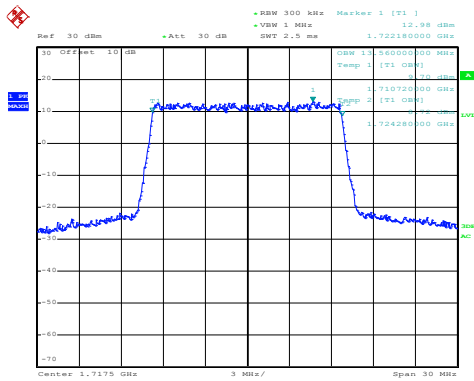
Date: 5.JUL.2017 11:59:55

Highest channel

Test Item:99% Occupy bandwidth

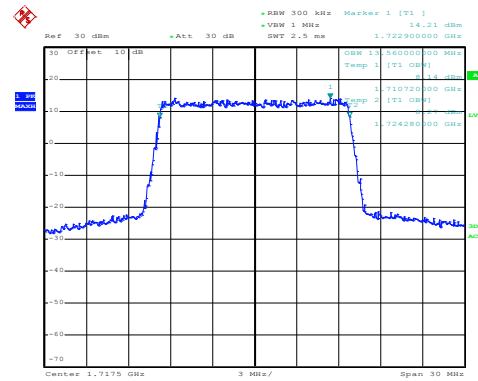
BW: 15MHz

Modulation:16QAM



Date: 5.JUL.2017 12:02:22

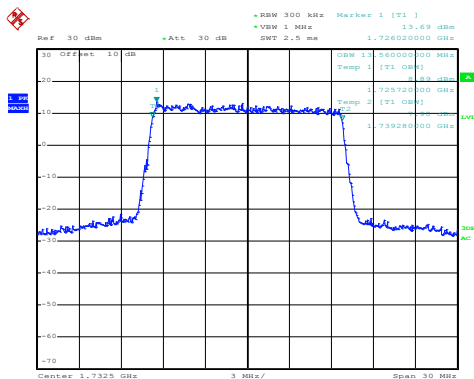
Modulation: QPSK



Date: 5.JUL.2017 12:01:34

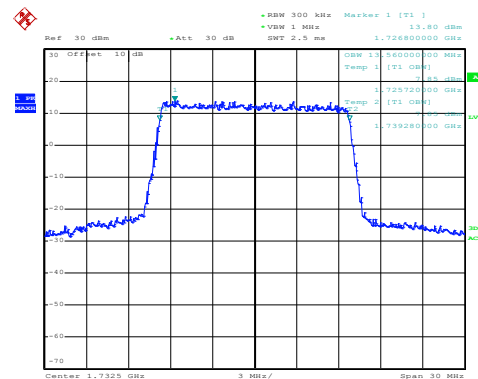
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 12:02:49

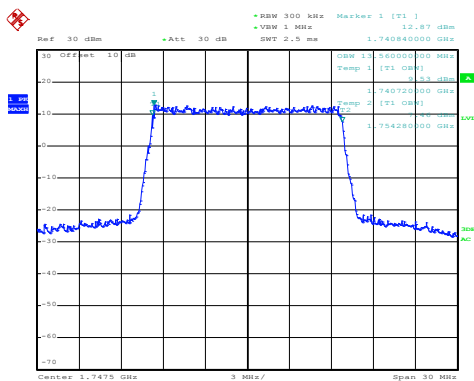
Modulation: QPSK



Date: 5.JUL.2017 12:03:21

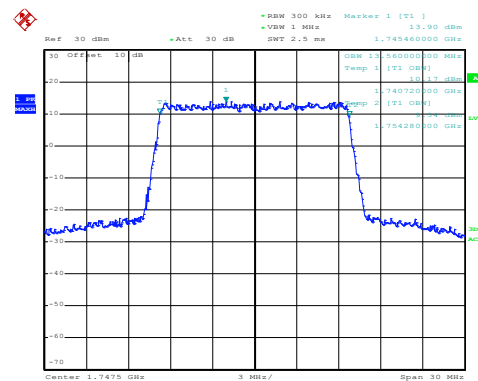
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:05:05

Modulation: QPSK

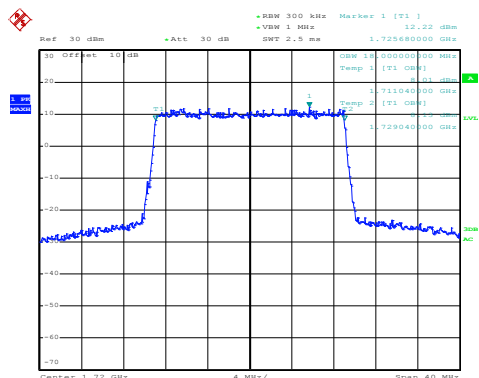


Date: 5.JUL.2017 12:04:10

Highest channel

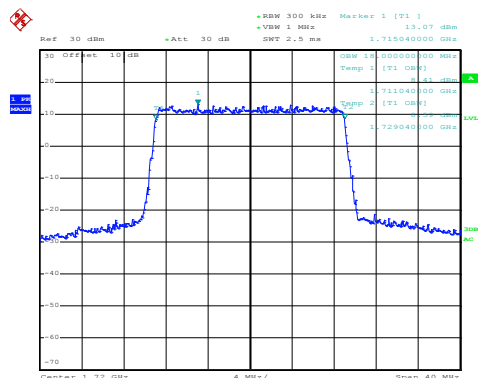
Test Item:99% Occupy bandwidth  
BW: 20MHz

Modulation:16QAM



Date: 5.JUL.2017 12:12:18

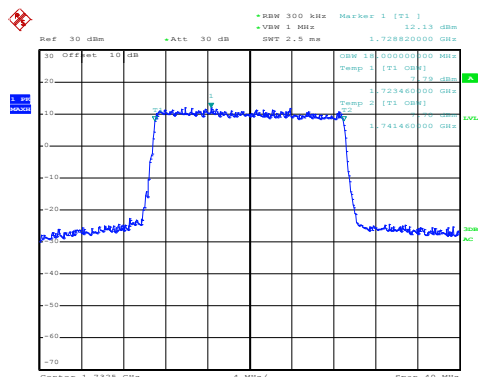
Modulation: QPSK



Date: 5.JUL.2017 12:11:43

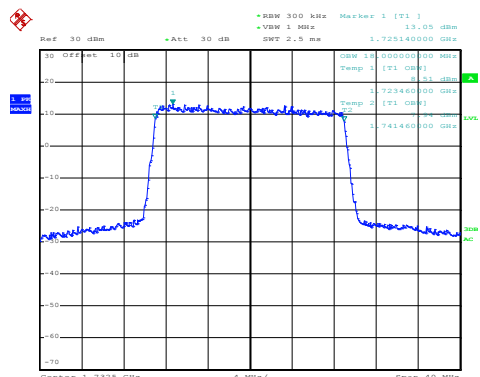
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 12:13:25

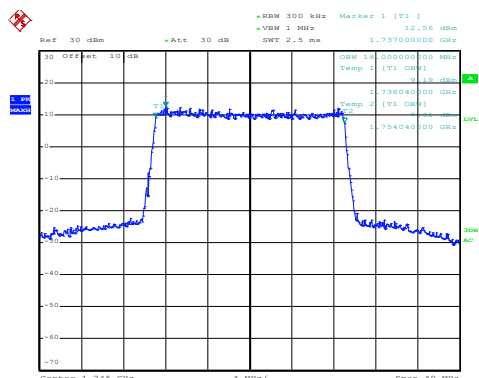
Modulation: QPSK



Date: 5.JUL.2017 12:12:47

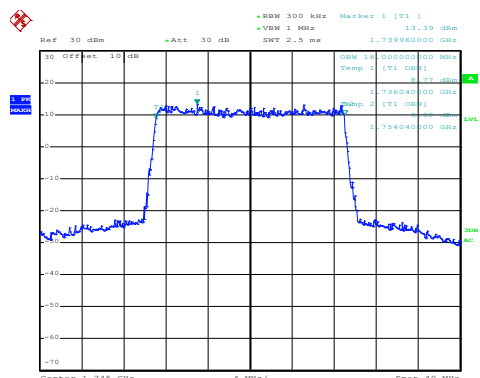
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:13:50

Modulation: QPSK

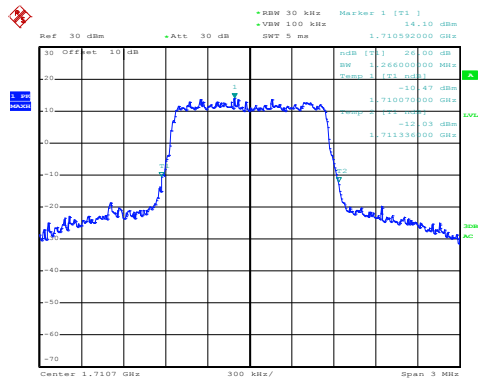


Date: 5.JUL.2017 12:14:21

Highest channel

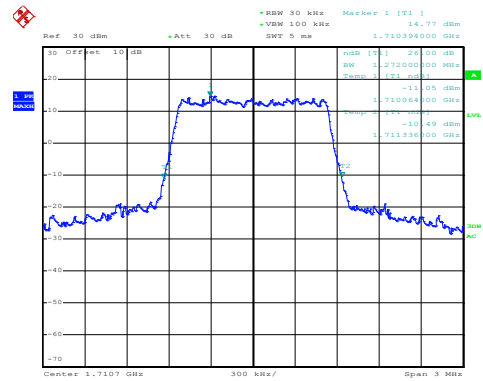
Test Item:-26dBc bandwidth  
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 11:44:56

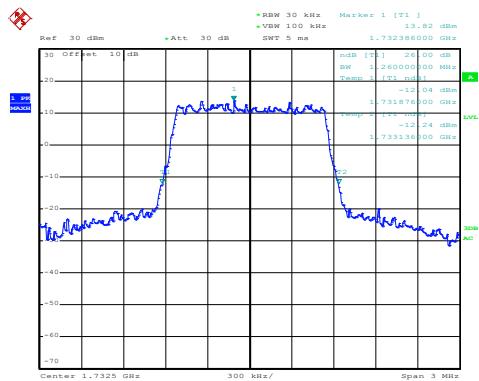
Modulation: QPSK



Date: 5.JUL.2017 11:44:26

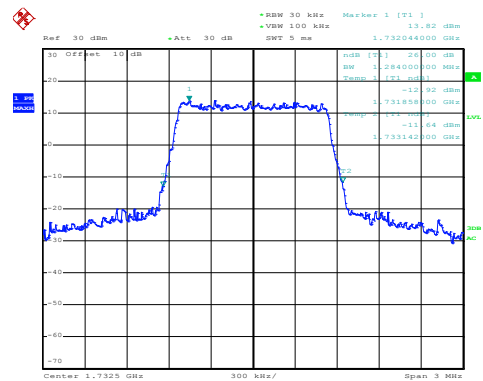
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:45:27

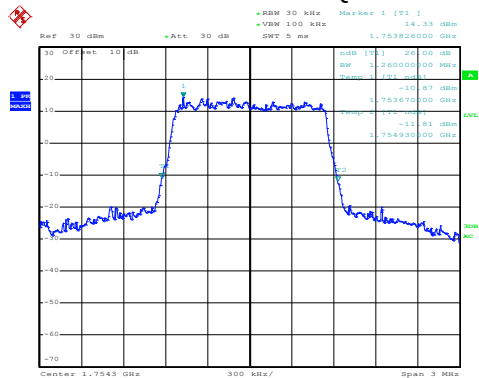
Modulation: QPSK



Date: 5.JUL.2017 11:45:55

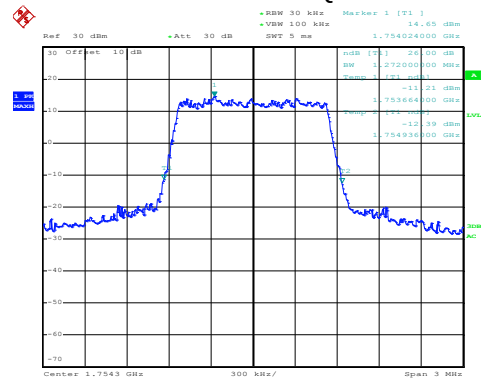
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:46:53

Modulation: QPSK



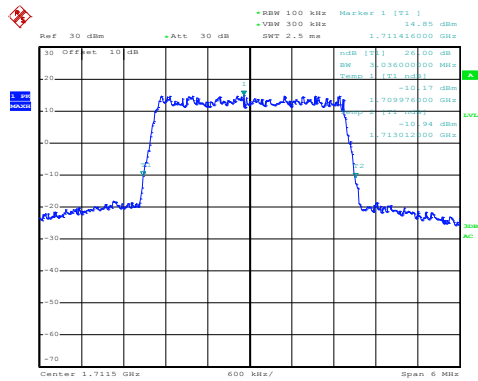
Date: 5.JUL.2017 11:46:24

Highest channel



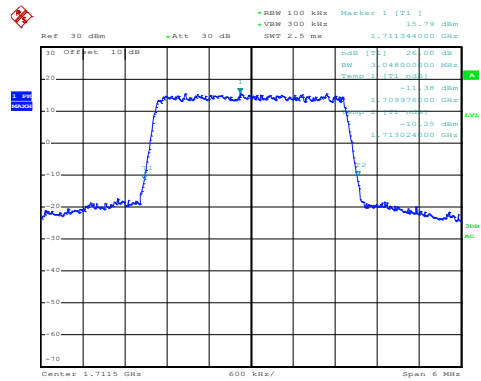
Test Item:-26dBc bandwidth  
BW: 3MHz

Modulation:16QAM



Date: 5.JUL.2017 11:48:50

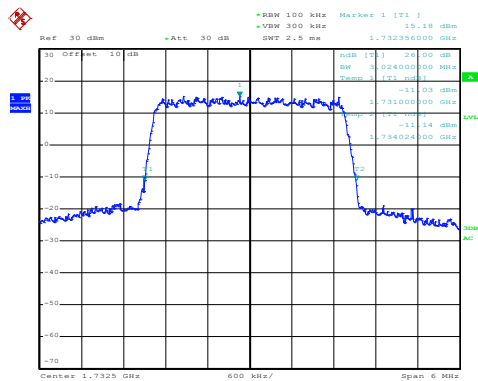
Modulation: QPSK



Date: 5.JUL.2017 11:48:17

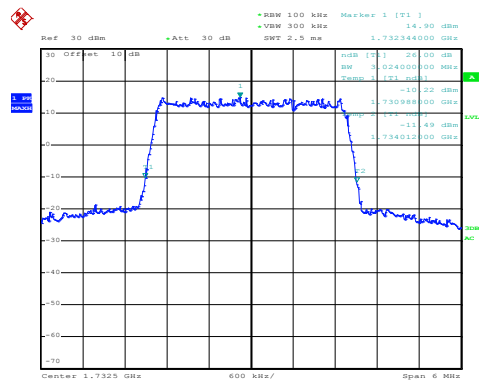
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:49:45

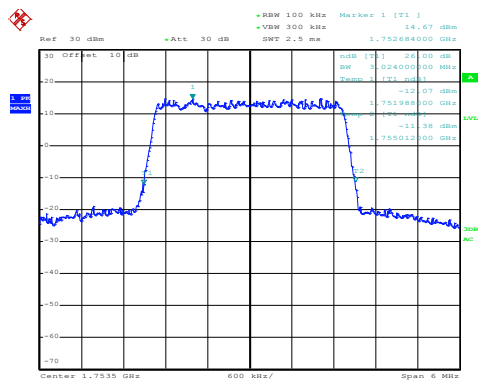
Modulation: QPSK



Date: 5.JUL.2017 11:49:18

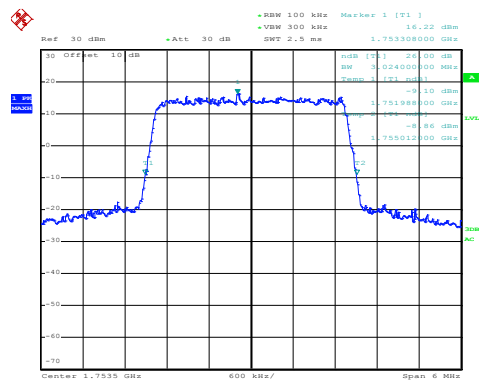
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:50:40

Modulation: QPSK



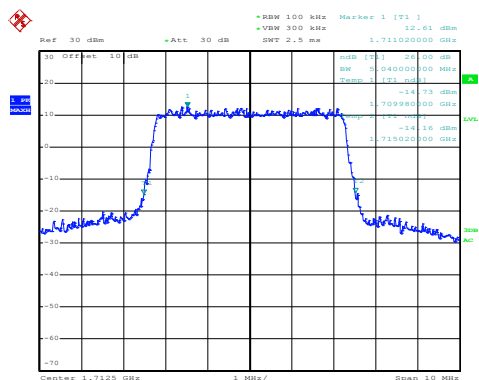
Date: 5.JUL.2017 11:50:09

Highest channel

Test Item:-26dBc bandwidth

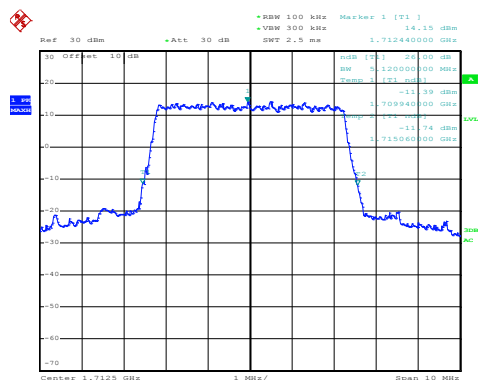
BW: 5MHz

Modulation:16QAM



Date: 5.JUL.2017 11:53:04

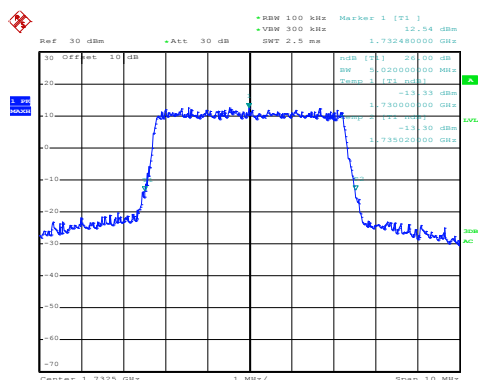
Modulation: QPSK



Date: 5.JUL.2017 11:52:32

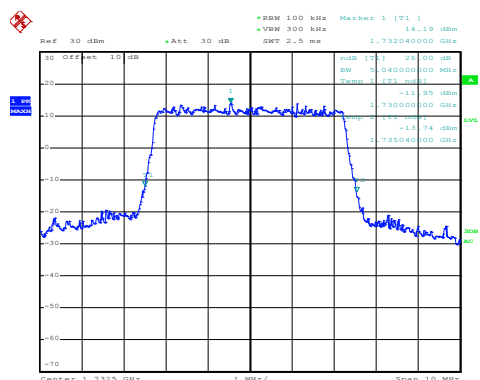
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:55:50

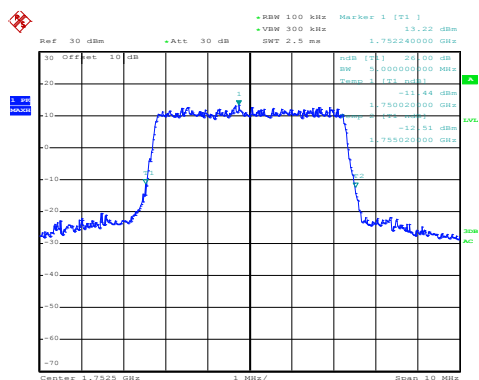
Modulation: QPSK



Date: 5.JUL.2017 11:56:06

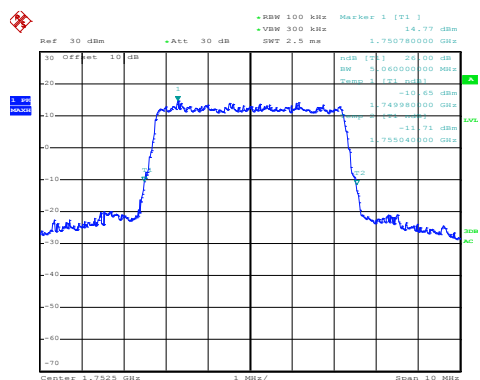
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 11:55:08

Modulation: QPSK



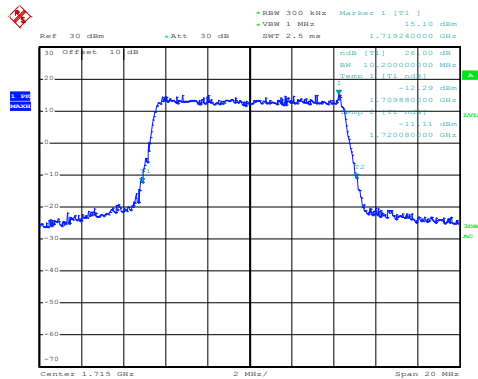
Date: 5.JUL.2017 11:54:55

Highest channel

Test Item:-26dBc bandwidth

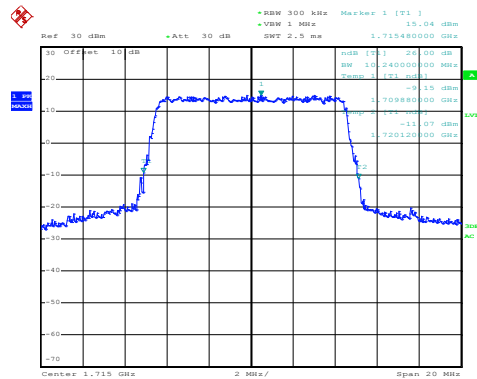
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 11:57:44

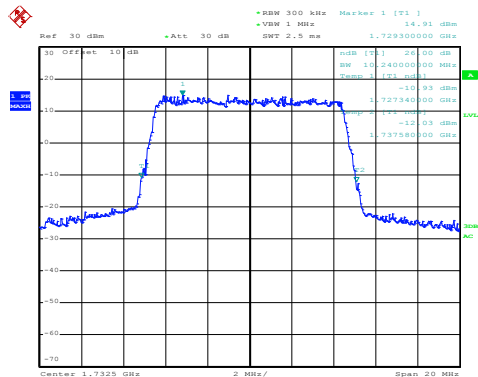
Modulation: QPSK



Date: 5.JUL.2017 11:57:31

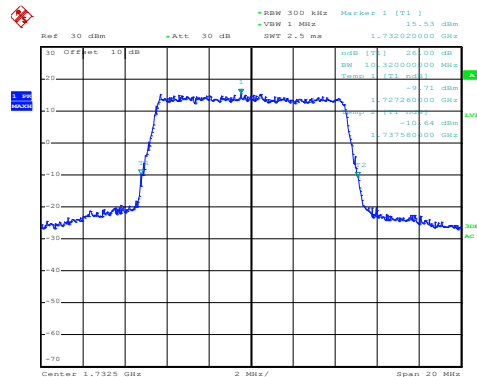
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 11:58:46

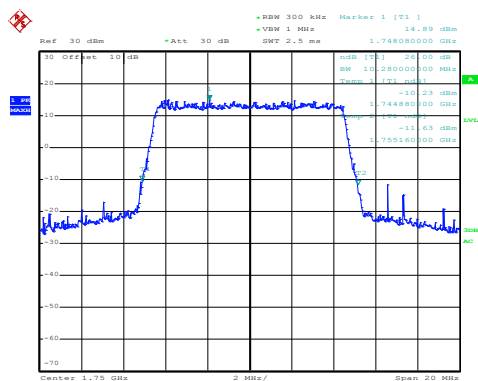
Modulation: QPSK



Date: 5.JUL.2017 11:59:00

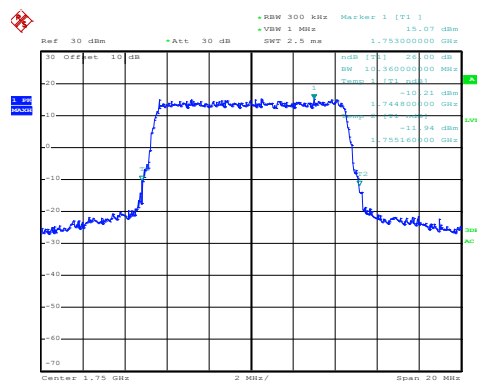
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:00:16

Modulation: QPSK



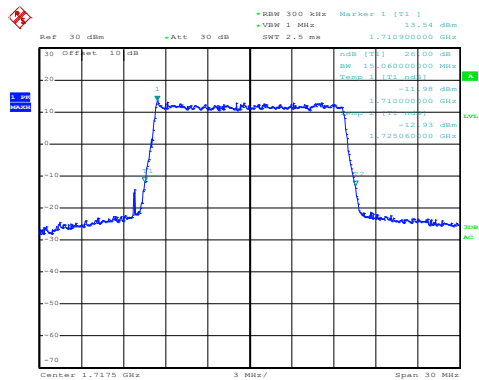
Date: 5.JUL.2017 12:00:05

Highest channel

Test Item:-26dBc bandwidth

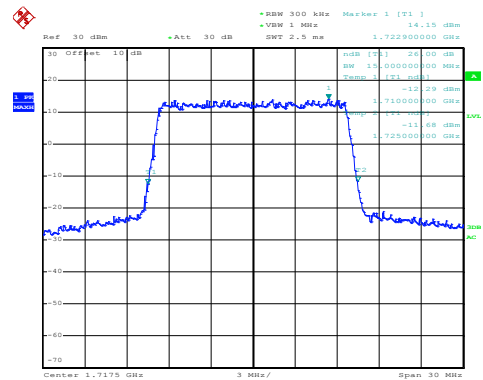
BW: 15MHz

Modulation:16QAM



Date: 5.JUL.2017 12:02:08

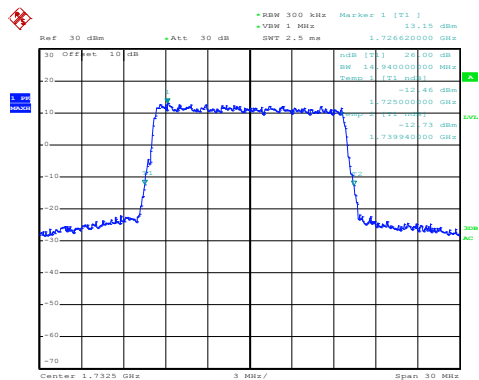
Modulation: QPSK



Date: 5.JUL.2017 12:01:45

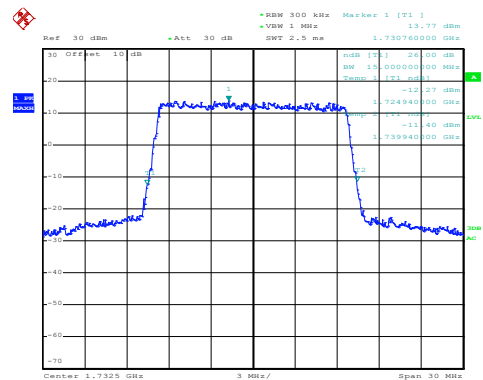
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 12:03:00

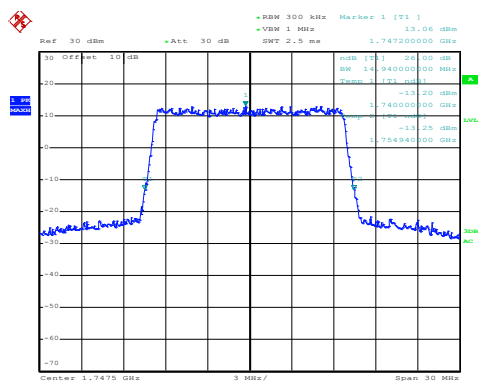
Modulation: QPSK



Date: 5.JUL.2017 12:03:11

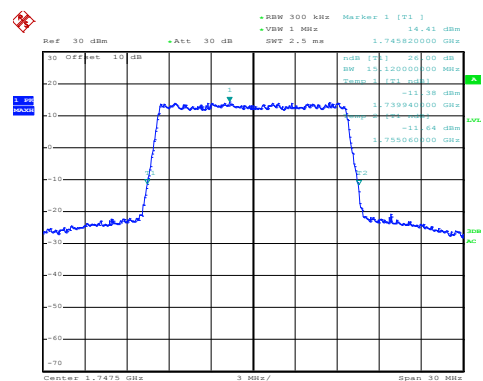
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:04:55

Modulation: QPSK



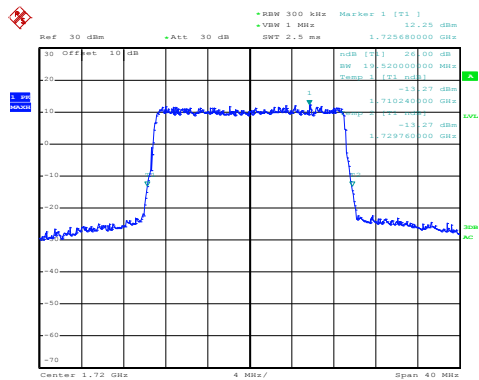
Date: 5.JUL.2017 12:04:43

Highest channel

Test Item:-26dBc bandwidth

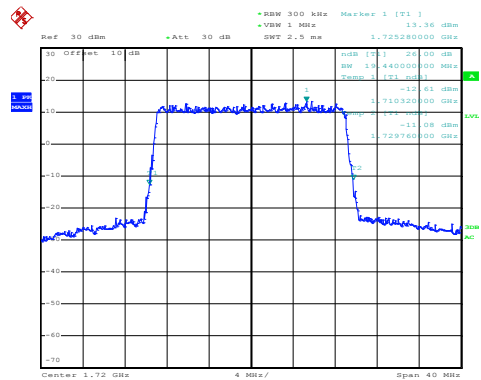
BW: 20MHz

Modulation:16QAM



Date: 5.JUL.2017 12:12:07

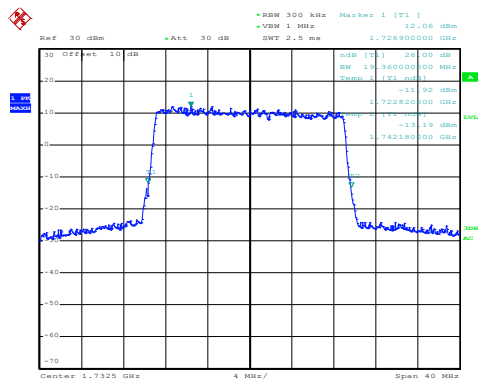
Modulation: QPSK



Date: 5.JUL.2017 12:11:53

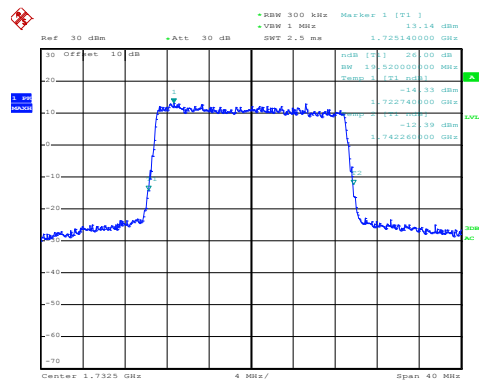
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 12:13:13

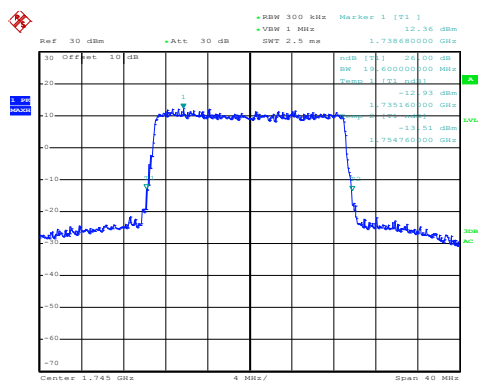
Modulation: QPSK



Date: 5.JUL.2017 12:12:59

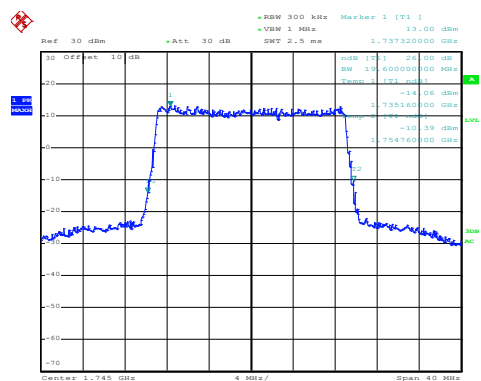
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 12:13:59

Modulation: QPSK



Date: 5.JUL.2017 12:14:11

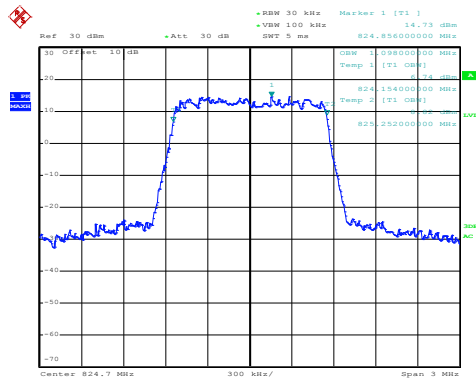
Highest channel

## LTE-Band 5 part

Test Item:99% Occupy bandwidth

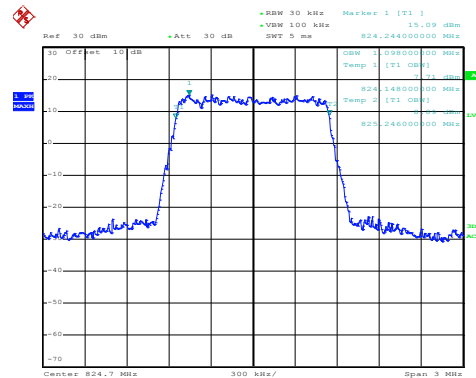
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 14:03:09

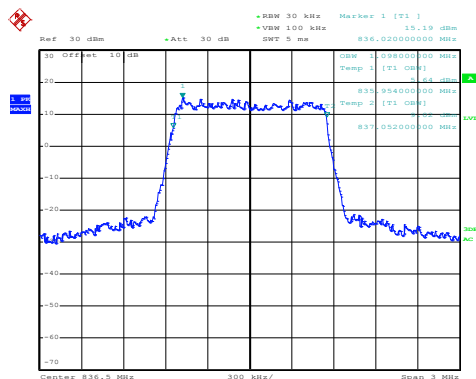
Modulation: QPSK



Date: 5.JUL.2017 14:02:56

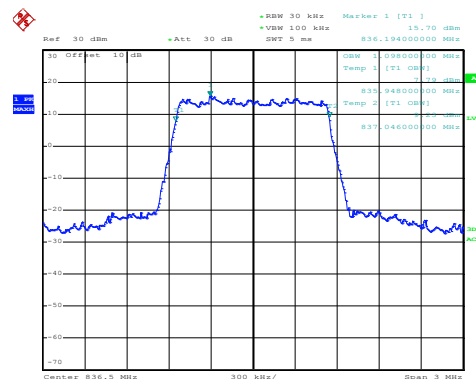
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:04:07

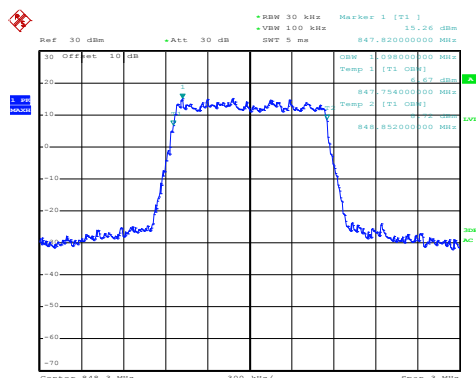
Modulation: QPSK



Date: 5.JUL.2017 14:08:26

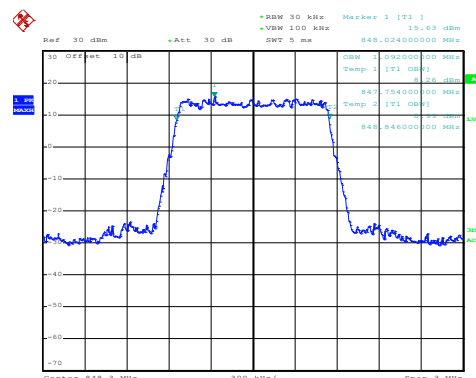
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:13:04

Modulation: QPSK

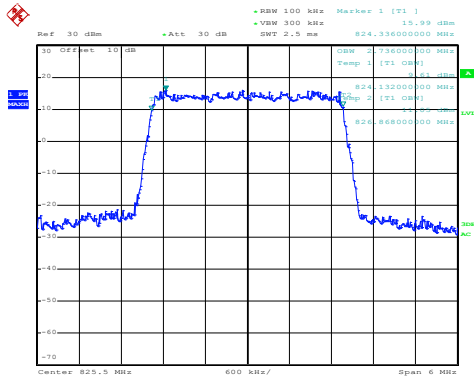


Date: 5.JUL.2017 14:12:52

## Highest channel

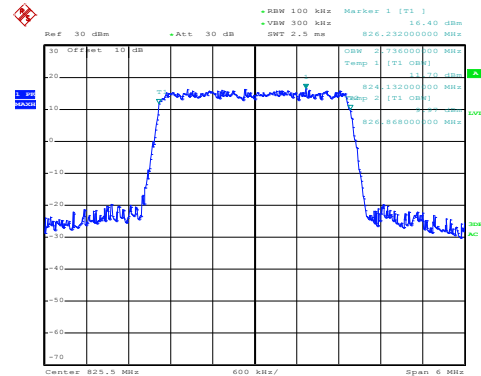
Test Item:99% Occupy bandwidth  
BW: 3MHz

Modulation:16QAM



Date: 5.JUL.2017 14:15:15

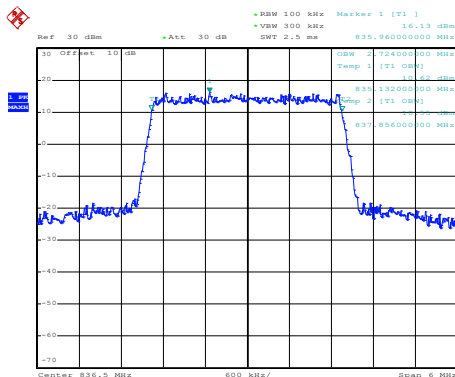
Modulation: QPSK



Date: 5.JUL.2017 14:15:05

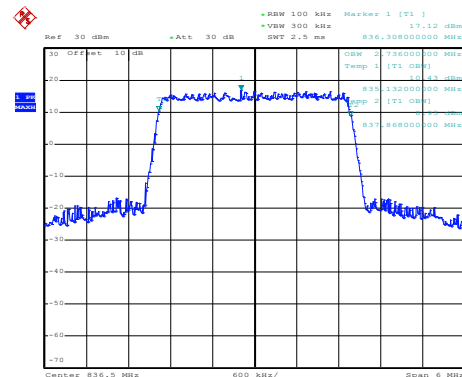
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:16:36

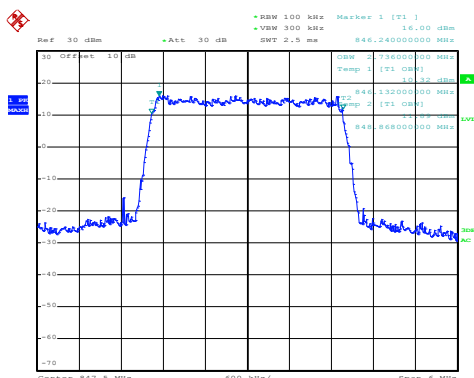
Modulation: QPSK



Date: 5.JUL.2017 14:16:46

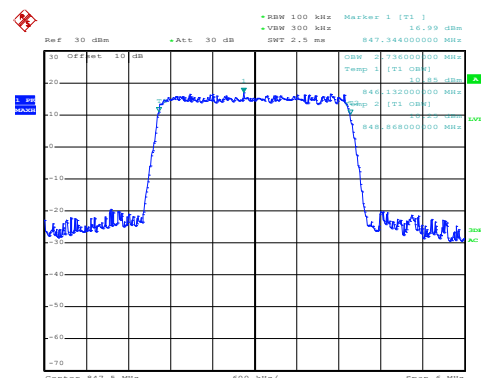
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:19:34

Modulation: QPSK



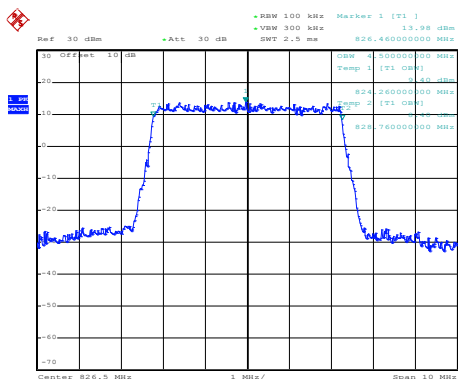
Date: 5.JUL.2017 14:18:55

Highest channel

Test Item: 99% Occupancy bandwidth

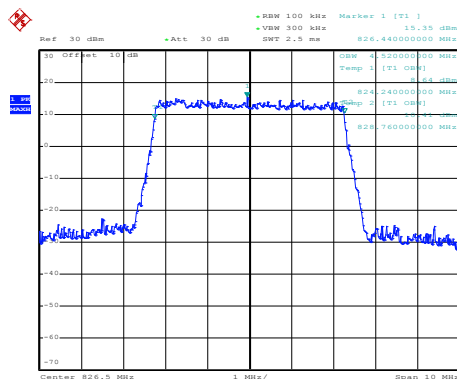
BW: 5MHz

Modulation: 16QAM



Date: 5.JUL.2017 14:21:24

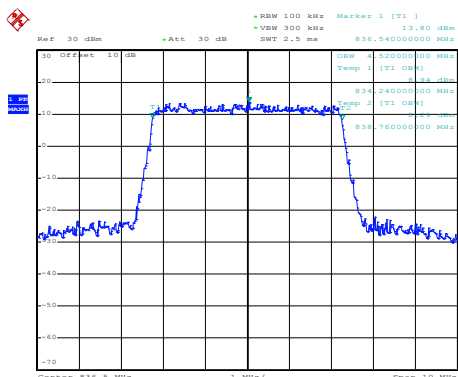
Modulation: QPSK



Date: 5.JUL.2017 14:20:48

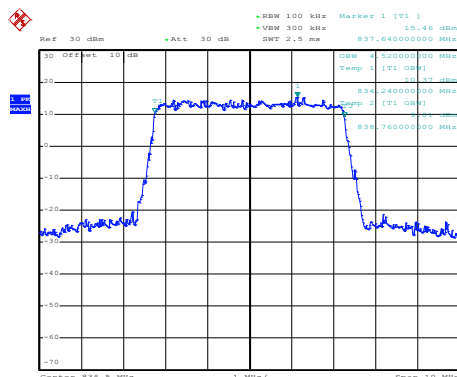
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 14:33:24

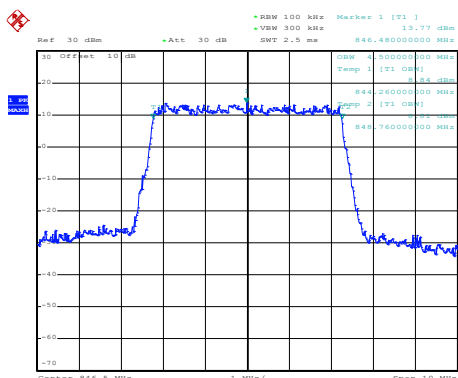
Modulation: QPSK



Date: 5.JUL.2017 14:32:50

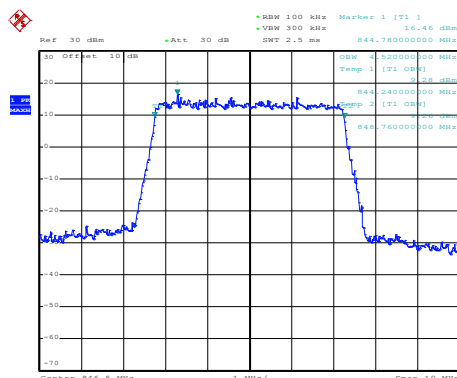
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 14:34:31

Modulation: QPSK



Date: 5.JUL.2017 14:33:54

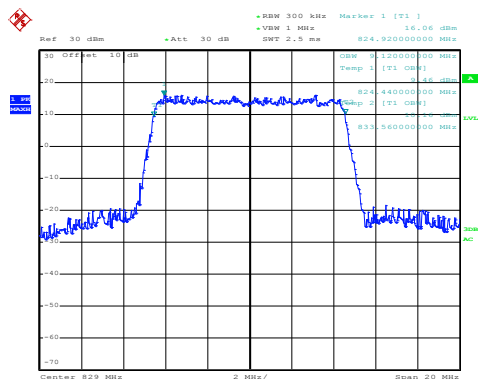
Highest channel



Test Item:99% Occupy bandwidth

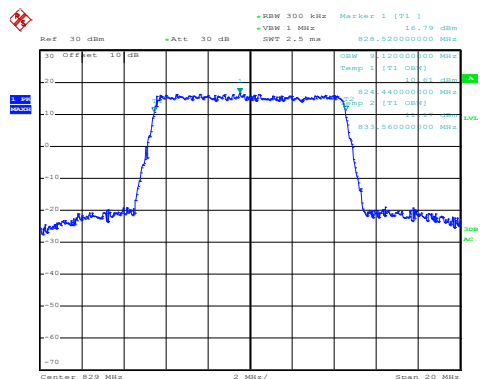
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 14:37:26

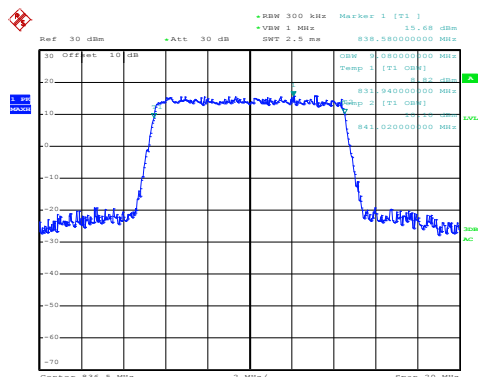
Modulation: QPSK



Date: 5.JUL.2017 14:36:51

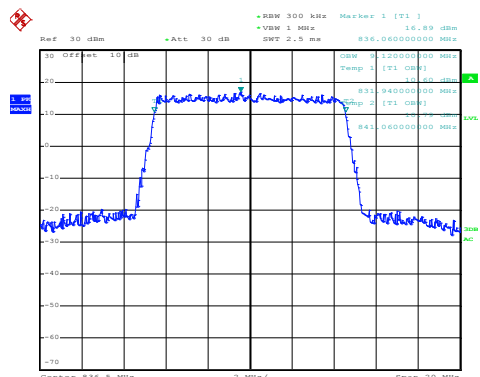
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:37:48

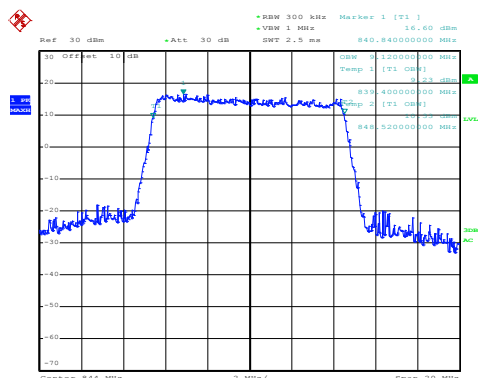
Modulation: QPSK



Date: 5.JUL.2017 14:38:19

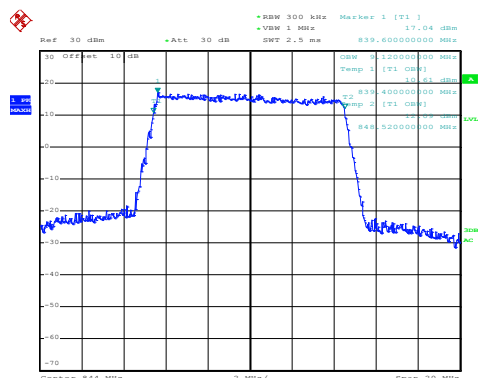
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:39:49

Modulation: QPSK

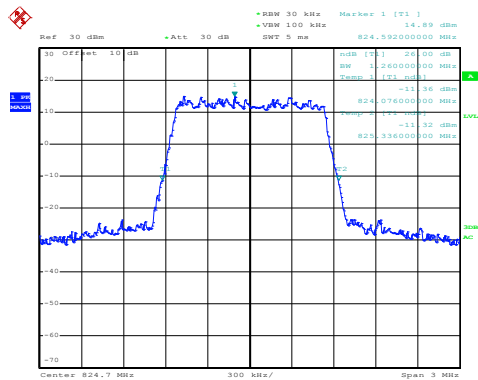


Date: 5.JUL.2017 14:39:17

Highest channel

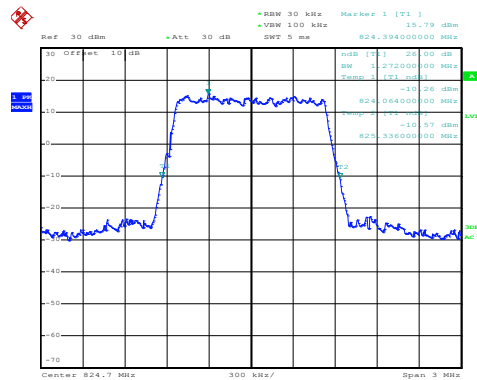
Test Item:-26dBc bandwidth  
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 14:03:19

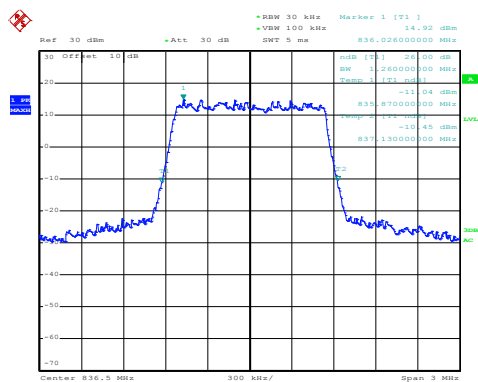
Modulation: QPSK



Date: 5.JUL.2017 14:02:46

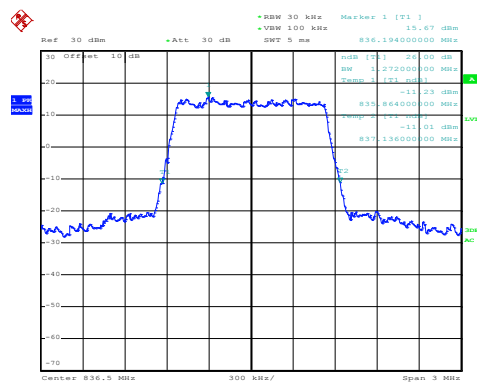
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:03:53

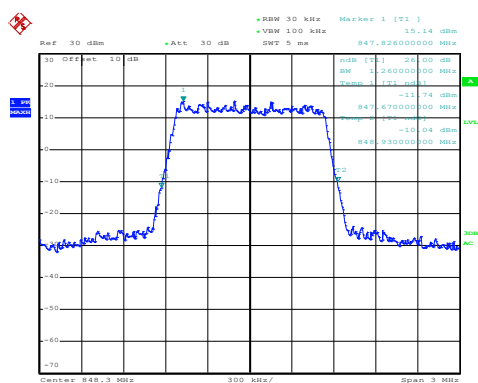
Modulation: QPSK



Date: 5.JUL.2017 14:08:40

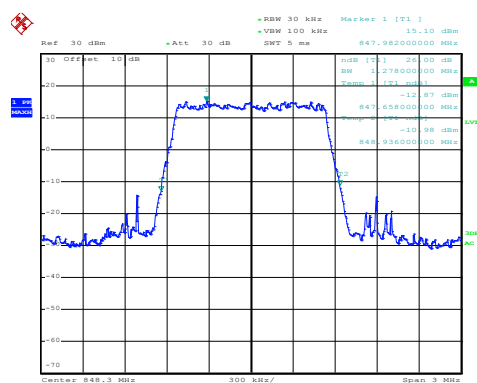
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:13:14

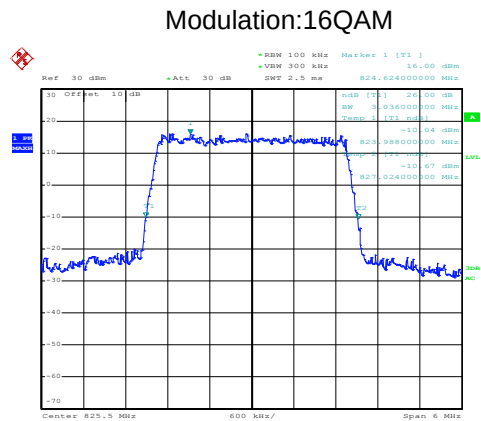
Modulation: QPSK



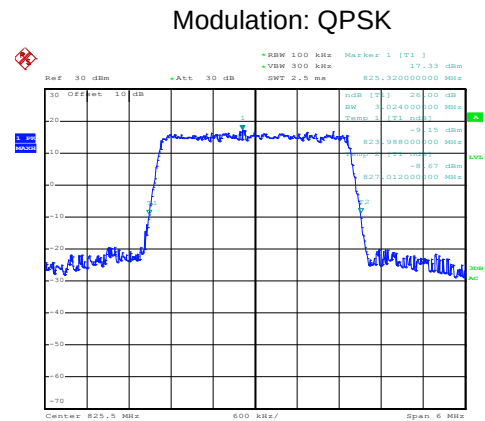
Date: 5.JUL.2017 14:12:40

Highest channel

Test Item:-26dBc bandwidth  
BW: 3MHz

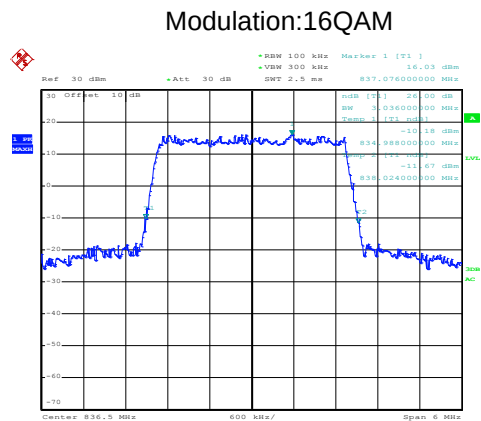


Date: 5.JUL.2017 14:15:26

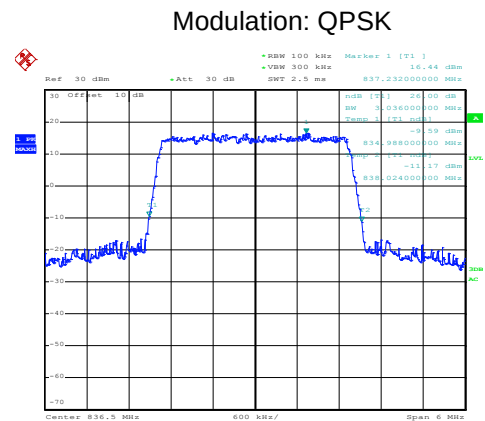


Date: 5.JUL.2017 14:14:56

Lowest channel

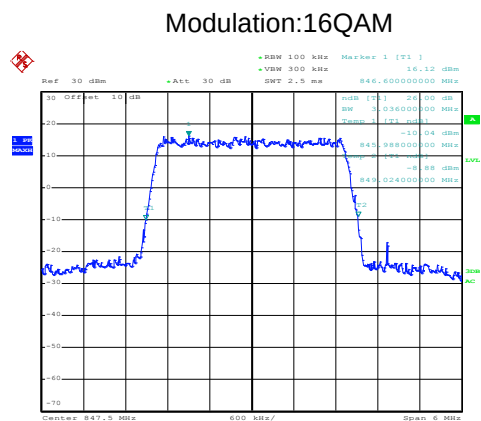


Date: 5.JUL.2017 14:16:27

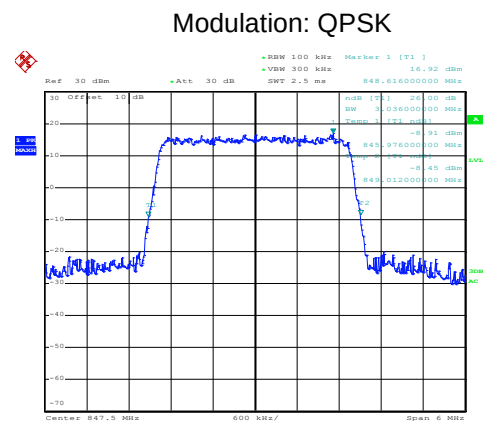


Date: 5.JUL.2017 14:16:55

Middle channel



Date: 5.JUL.2017 14:19:22



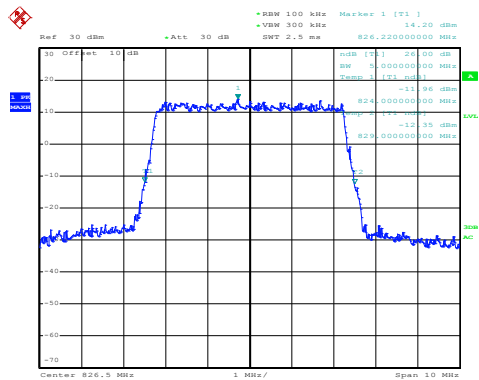
Date: 5.JUL.2017 14:19:05

Highest channel

Test Item:-26dBc bandwidth

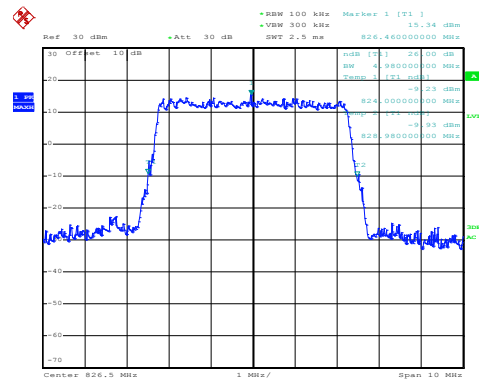
BW: 5MHz

Modulation:16QAM



Date: 5.JUL.2017 14:21:10

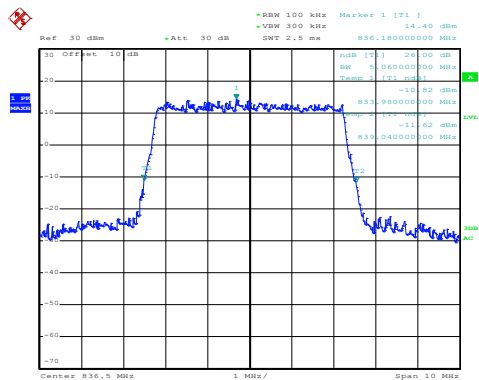
Modulation: QPSK



Date: 5.JUL.2017 14:20:58

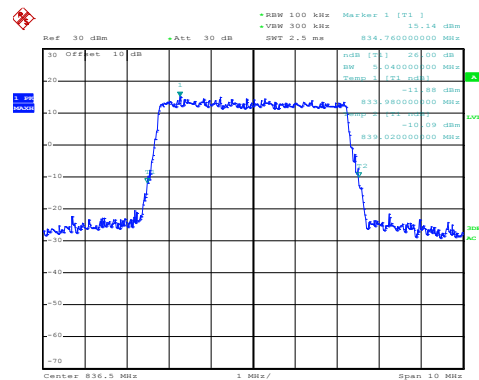
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:33:14

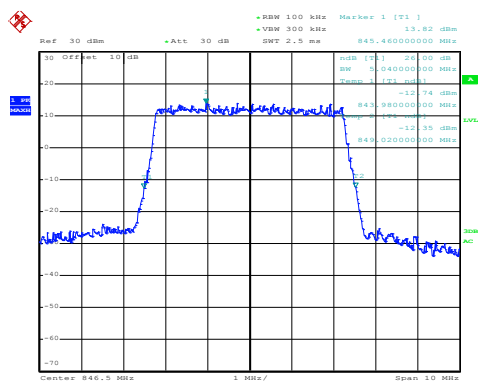
Modulation: QPSK



Date: 5.JUL.2017 14:33:01

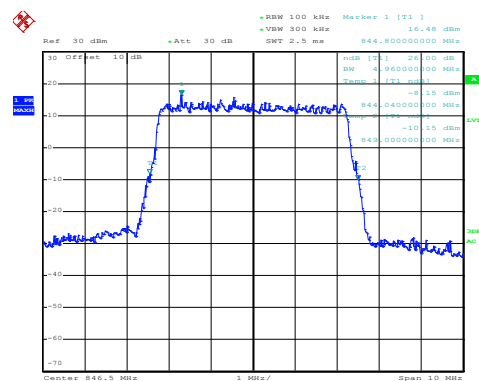
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:34:13

Modulation: QPSK

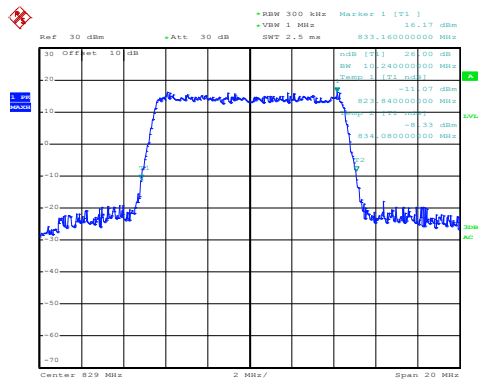


Date: 5.JUL.2017 14:34:03

Highest channel

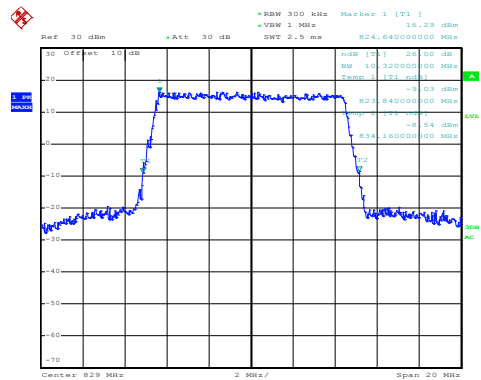
Test Item:-26dBc bandwidth  
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 14:37:14

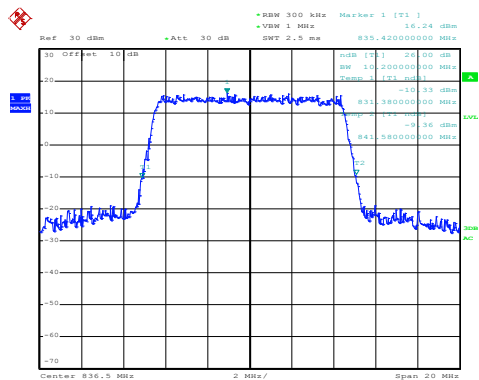
Modulation: QPSK



Date: 5.JUL.2017 14:37:02

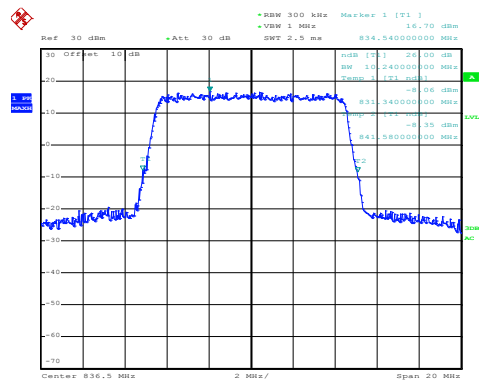
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:37:58

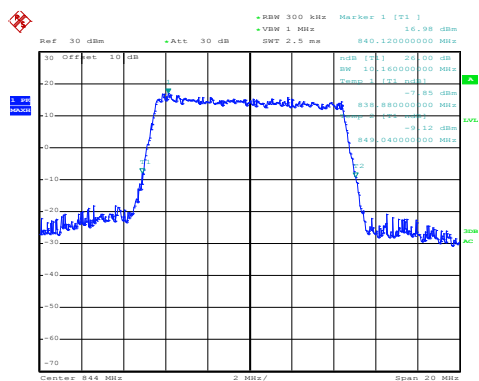
Modulation: QPSK



Date: 5.JUL.2017 14:38:10

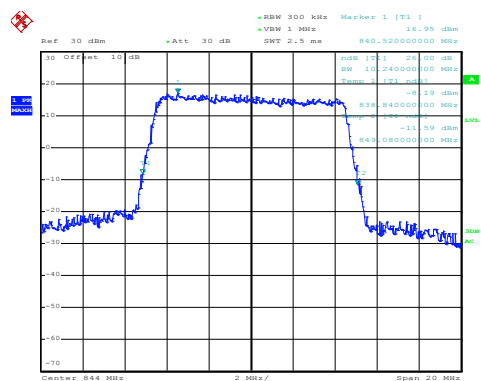
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:39:39

Modulation: QPSK



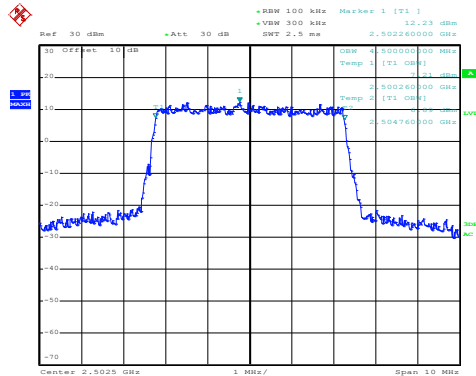
Date: 5.JUL.2017 14:39:27

Highest channel

## LTE-Band 7 part

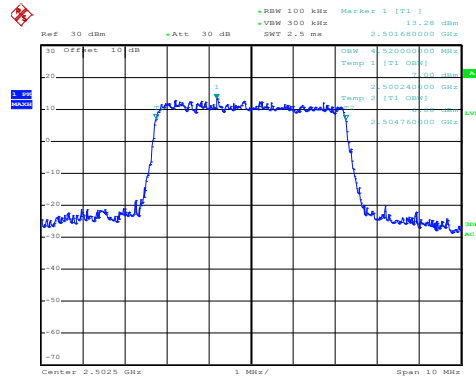
Test Item:99% Occupancy bandwidth  
BW: 5MHz

Modulation:16QAM



Date: 5.JUL.2017 15:23:55

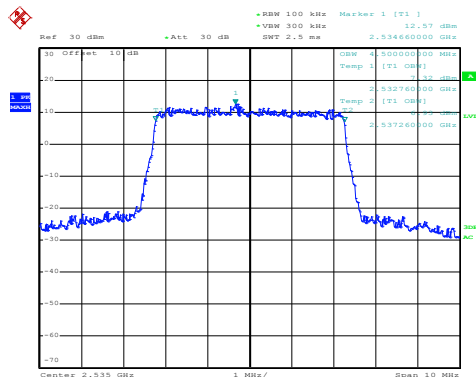
Modulation:QPSK



Date: 5.JUL.2017 15:23:44

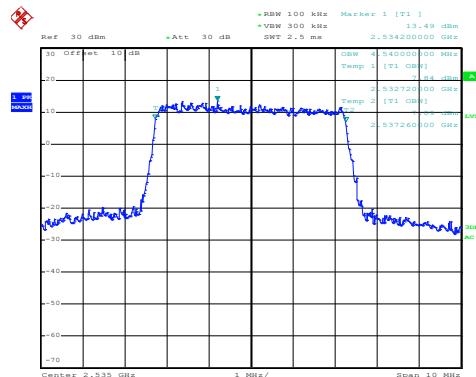
## Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:24:53

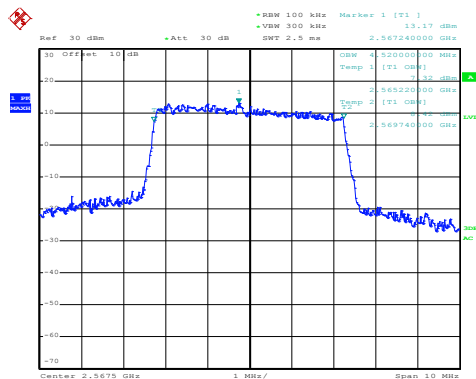
Modulation:QPSK



Date: 5.JUL.2017 15:24:41

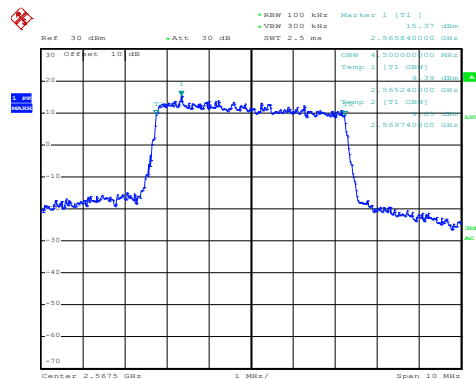
## Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:25:51

Modulation: QPSK

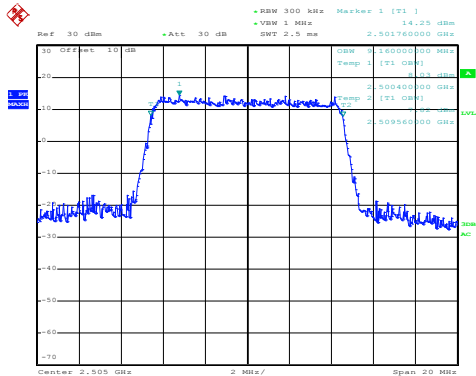


Date: 5.JUL.2017 15:26:03

## Highest channel

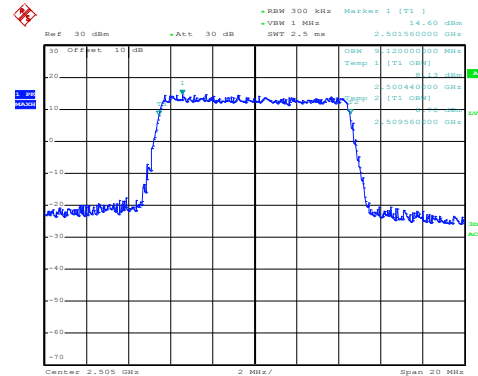
Test Item: 99% Occupancy bandwidth  
BW: 10MHz

Modulation: 16QAM



Date: 5.JUL.2017 15:27:18

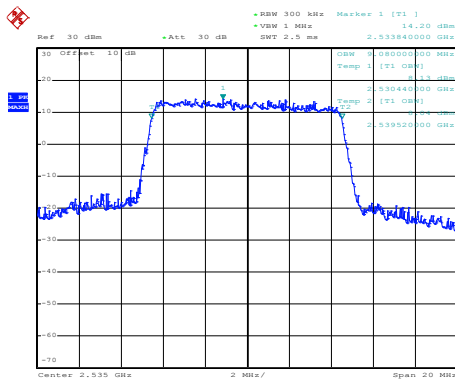
Modulation: QPSK



Date: 5.JUL.2017 15:27:07

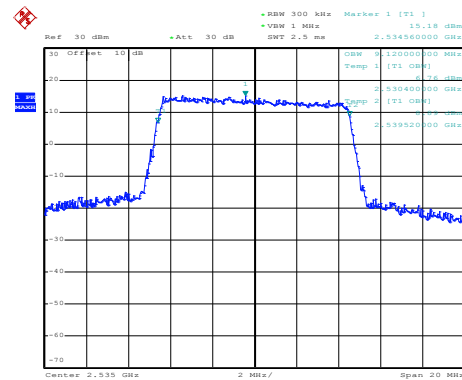
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 15:27:58

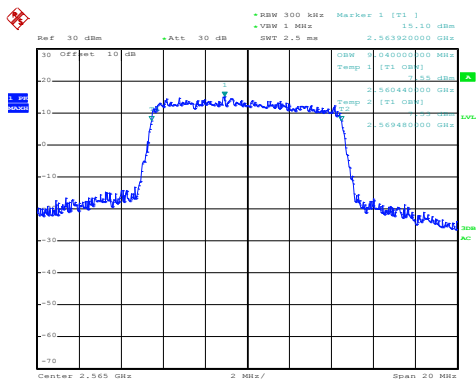
Modulation: QPSK



Date: 5.JUL.2017 15:28:11

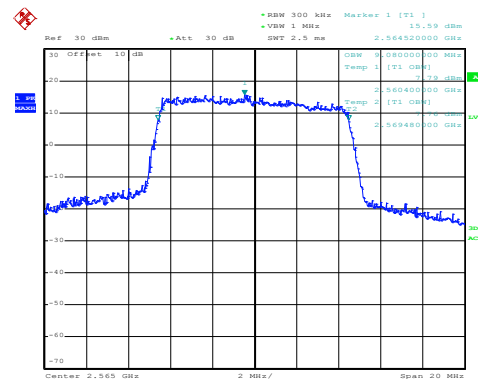
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 15:29:33

Modulation: QPSK



Date: 5.JUL.2017 15:29:23

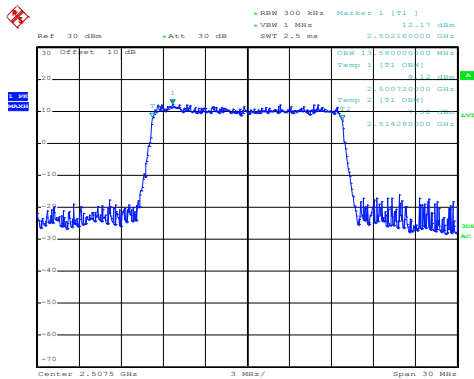
Highest channel





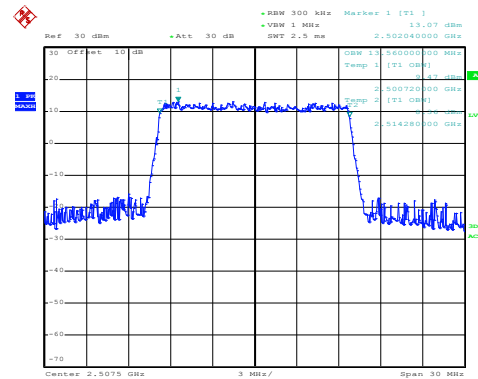
Test Item: 99% Occupancy bandwidth  
BW: 15MHz

Modulation: 16QAM



Date: 5.JUL.2017 15:31:08

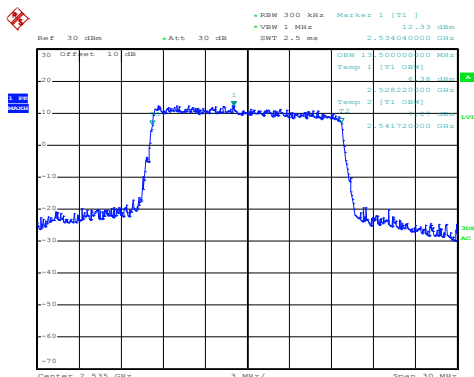
Modulation: QPSK



Date: 5.JUL.2017 15:30:56

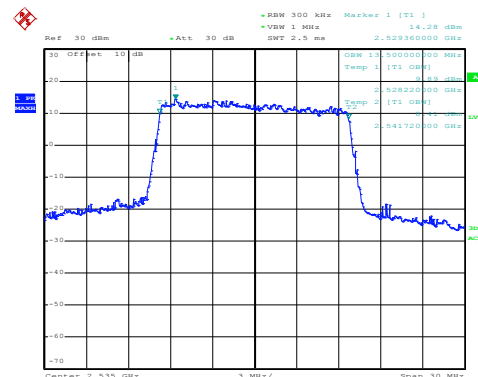
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 15:31:49

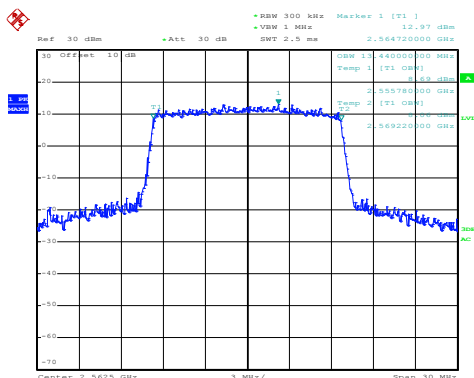
Modulation: QPSK



Date: 5.JUL.2017 15:32:21

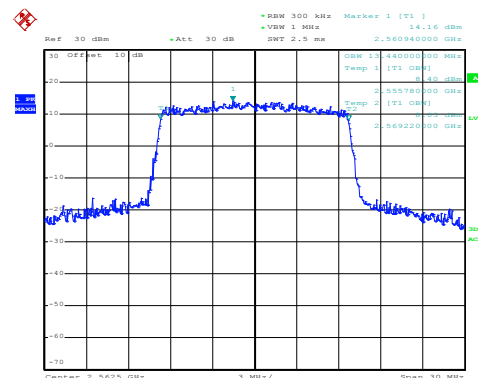
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 15:33:29

Modulation: QPSK



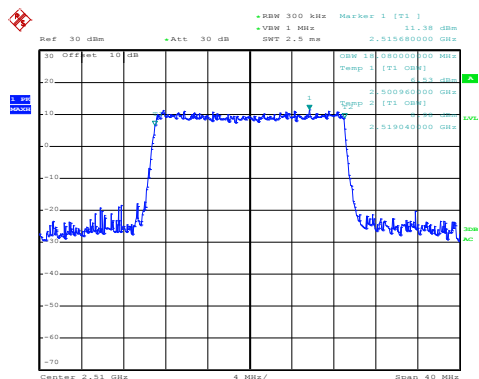
Date: 5.JUL.2017 15:33:19

Highest channel

Test Item:99% Occupy bandwidth

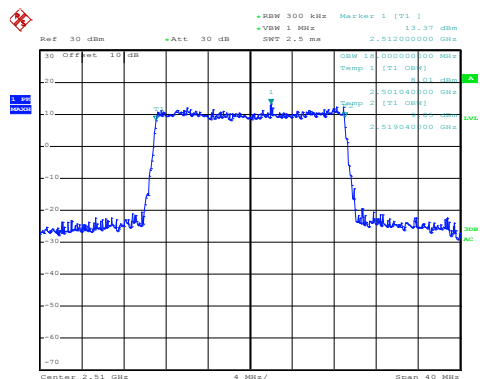
BW: 20MHz

Modulation:16QAM



Date: 5.JUL.2017 15:35:39

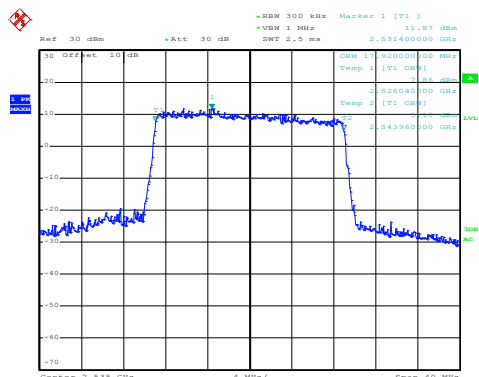
Modulation:QPSK



Date: 5.JUL.2017 15:35:24

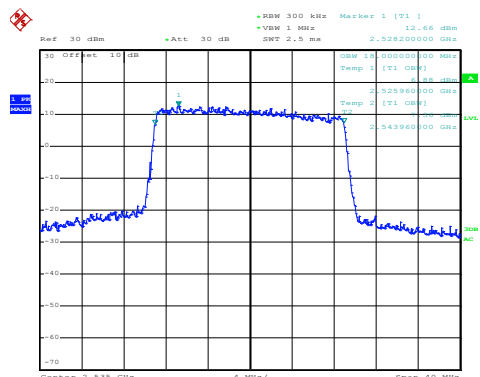
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:36:25

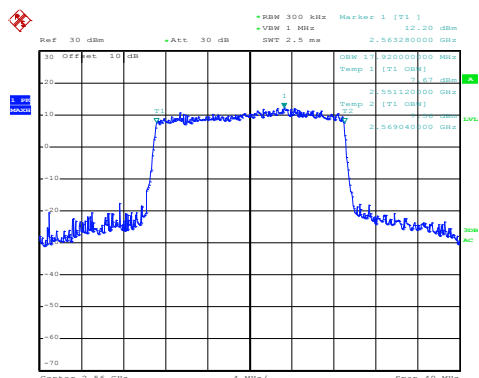
Modulation:QPSK



Date: 5.JUL.2017 15:36:41

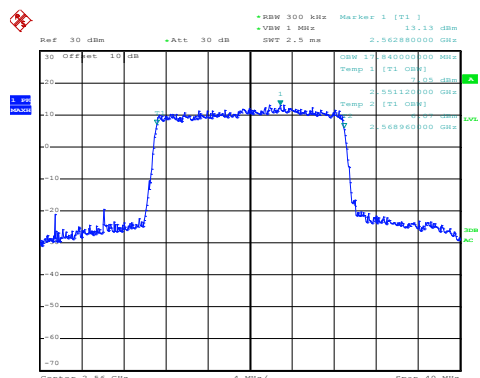
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:41:01

Modulation:QPSK

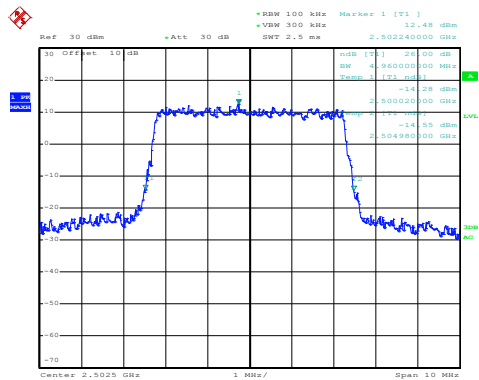


Date: 5.JUL.2017 15:40:49

Highest channel

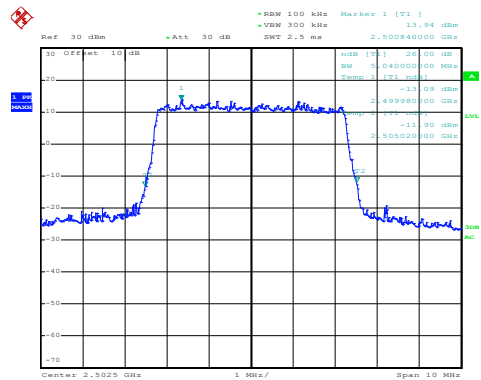
Test Item:-26dBc bandwidth  
BW: 5MHz

Modulation:16QAM



Date: 5.JUL.2017 15:24:05

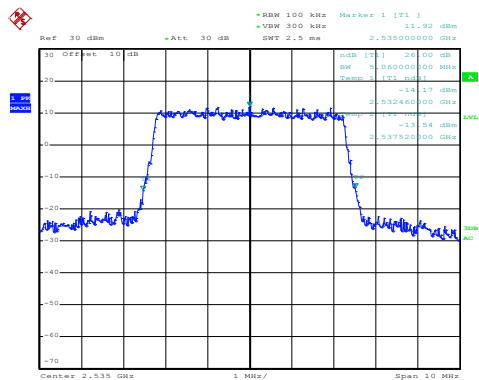
Modulation:QPSK



Date: 5.JUL.2017 15:23:33

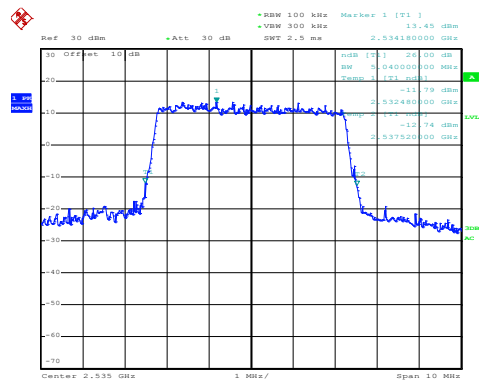
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:25:02

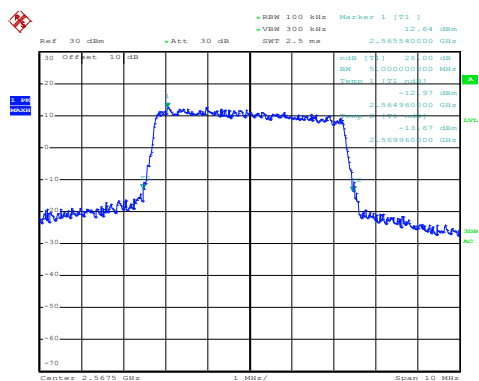
Modulation:QPSK



Date: 5.JUL.2017 15:24:32

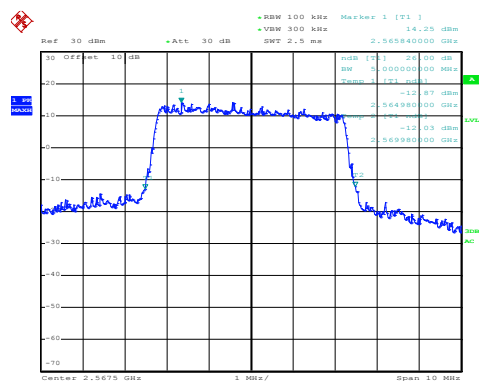
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:25:25

Modulation:QPSK



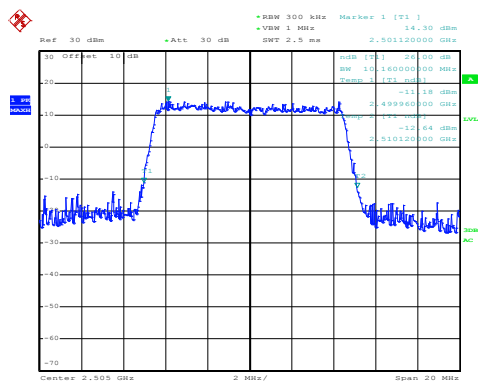
Date: 5.JUL.2017 15:26:12

Highest channel

Test Item:-26dBc bandwidth

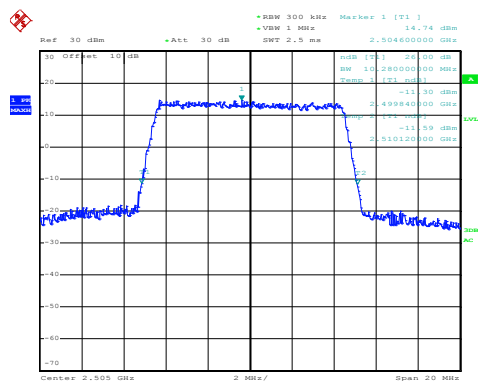
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 15:27:28

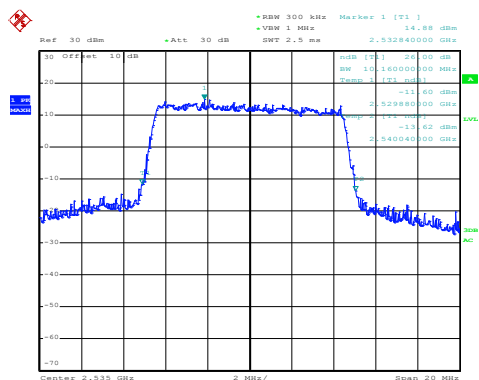
Modulation:QPSK



Date: 5.JUL.2017 15:26:59

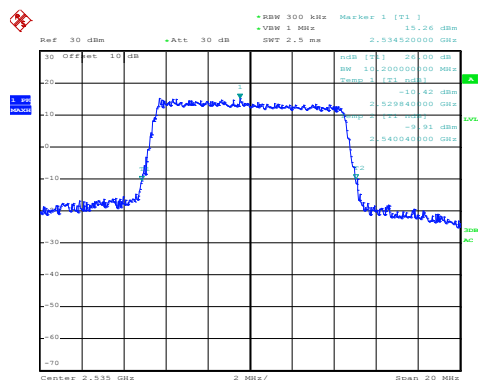
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:27:49

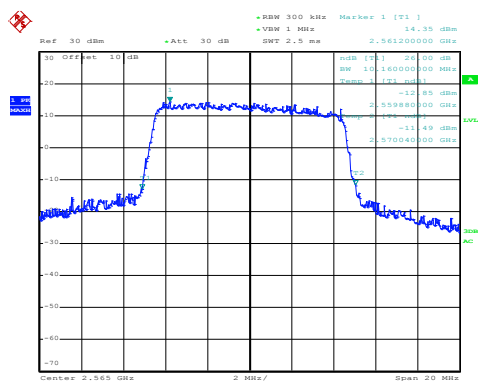
Modulation:QPSK



Date: 5.JUL.2017 15:28:20

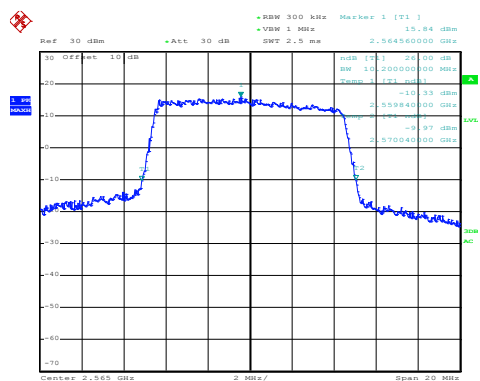
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:29:43

Modulation:QPSK



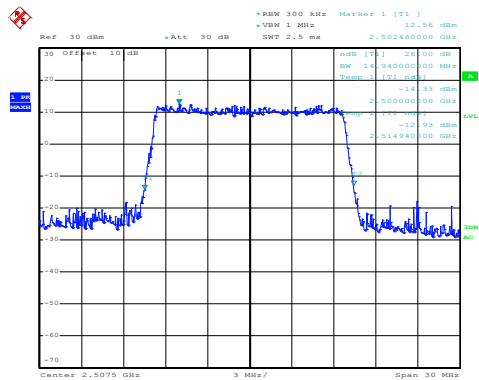
Date: 5.JUL.2017 15:29:14

Highest channel

Test Item:-26dBc bandwidth

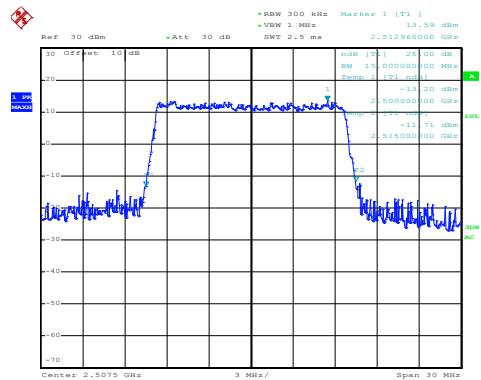
BW: 15MHz

Modulation:16QAM



Date: 5.JUL.2017 15:31:17

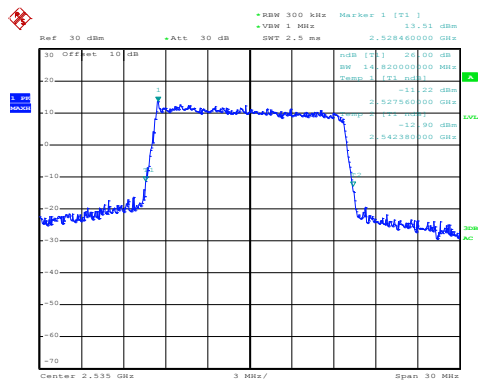
Modulation:QPSK



Date: 5.JUL.2017 15:30:47

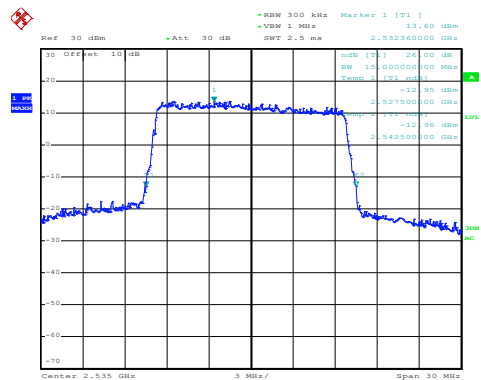
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:31:39

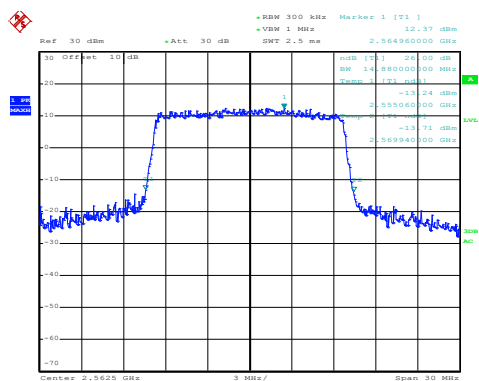
Modulation:QPSK



Date: 5.JUL.2017 15:32:36

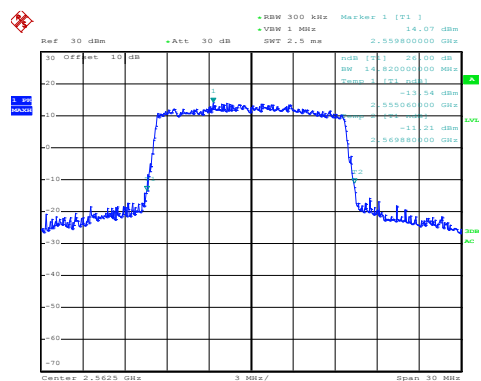
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:33:39

Modulation:QPSK



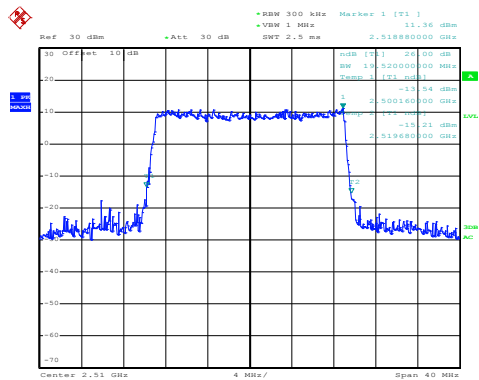
Date: 5.JUL.2017 15:33:10

Highest channel

Test Item:-26dBc bandwidth

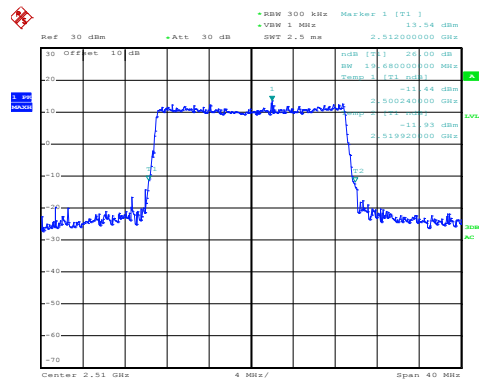
BW: 20MHz

Modulation:16QAM



Date: 5.JUL.2017 15:35:48

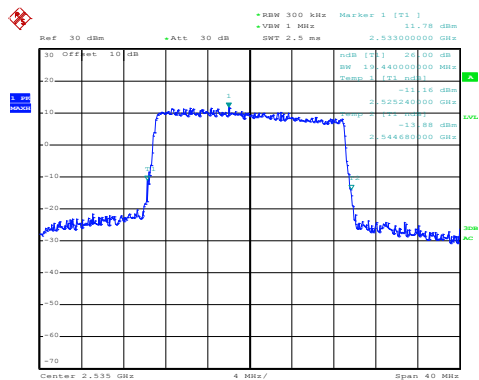
Modulation:QPSK



Date: 5.JUL.2017 15:35:15

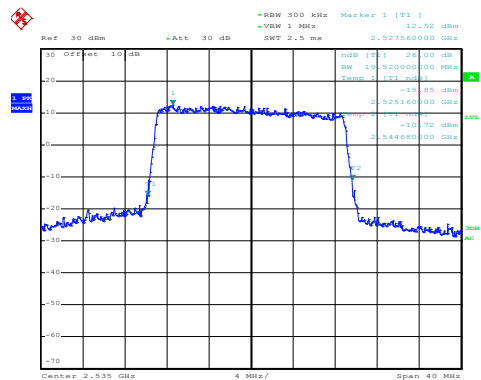
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:36:13

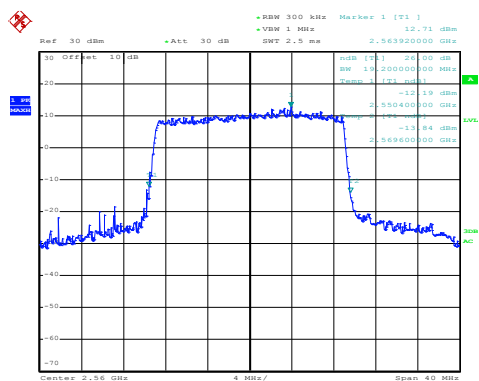
Modulation:QPSK



Date: 5.JUL.2017 15:36:54

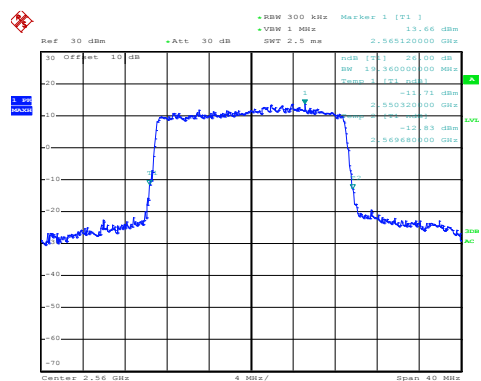
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:41:11

Modulation:QPSK



Date: 5.JUL.2017 15:40:39

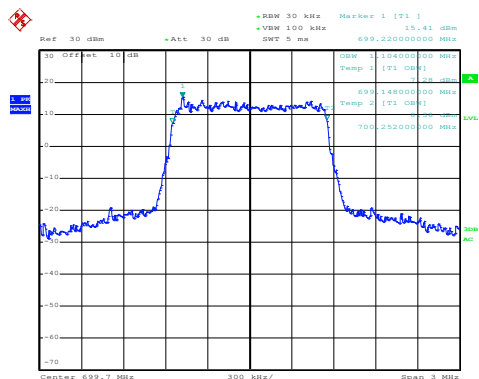
Highest channel

## LTE-Band 12 part

Test Item:99% Occupy bandwidth

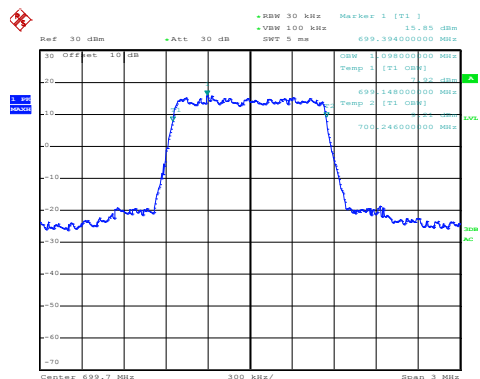
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 14:44:53

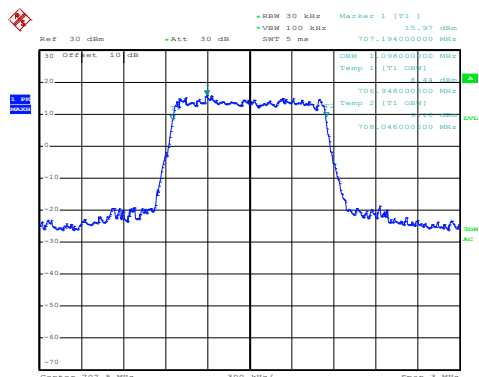
Modulation: QPSK



Date: 5.JUL.2017 14:44:18

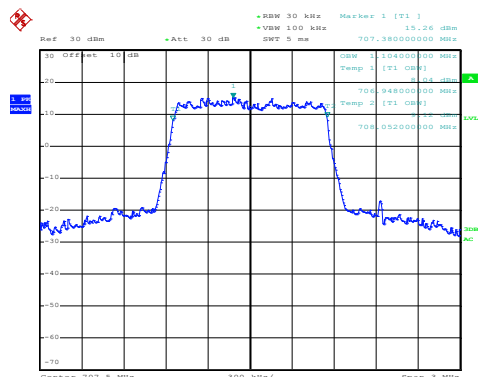
## Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:46:23

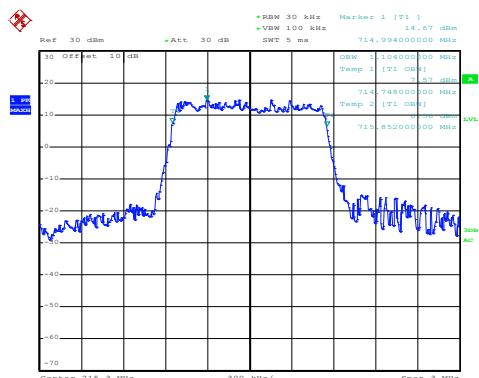
Modulation: QPSK



Date: 5.JUL.2017 14:45:46

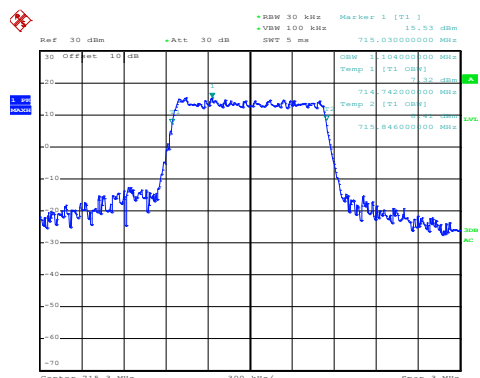
## Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:48:01

Modulation: QPSK

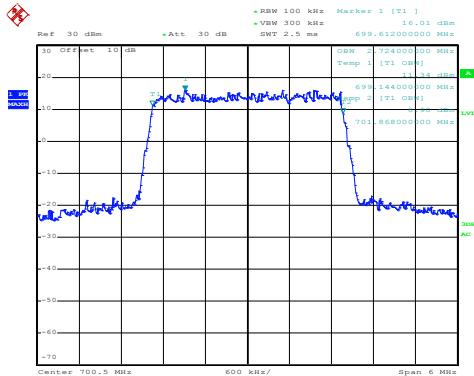


Date: 5.JUL.2017 14:47:48

## Highest channel

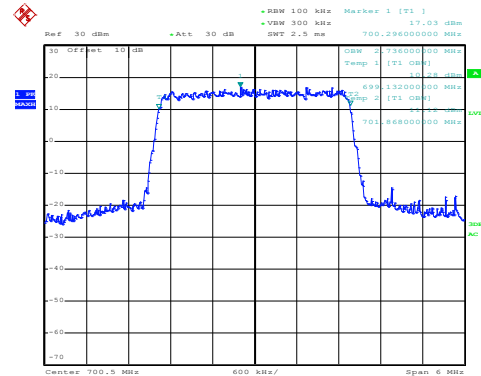
Test Item: 99% Occupancy bandwidth  
BW: 3MHz

Modulation: 16QAM



Date: 5.JUL.2017 15:08:32

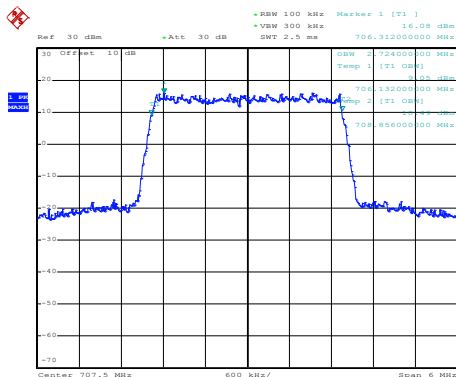
Modulation: QPSK



Date: 5.JUL.2017 15:08:21

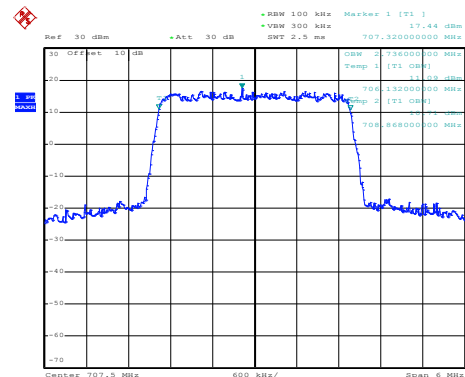
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 15:09:17

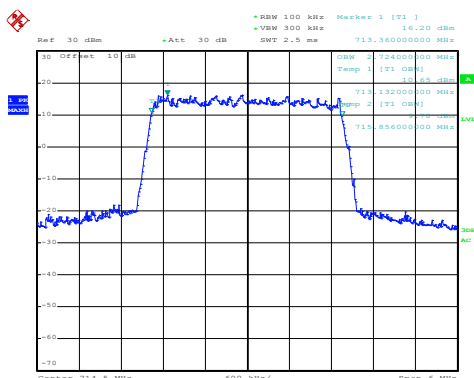
Modulation: QPSK



Date: 5.JUL.2017 15:09:28

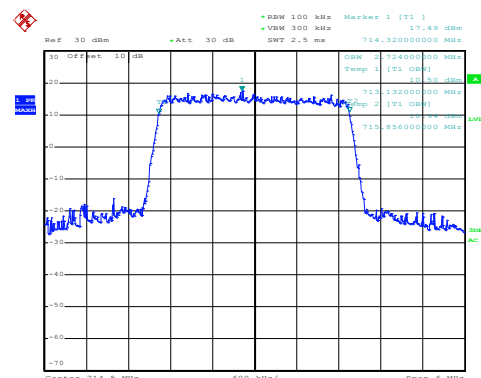
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 15:10:32

Modulation: QPSK



Date: 5.JUL.2017 15:10:22

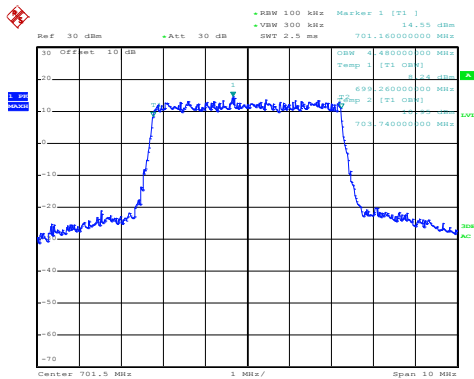
Highest channel





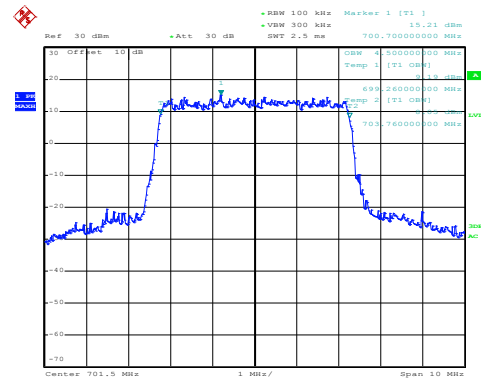
Test Item: 99% Occupancy bandwidth  
BW: 5MHz

Modulation: 16QAM



Date: 5.JUL.2017 15:11:50

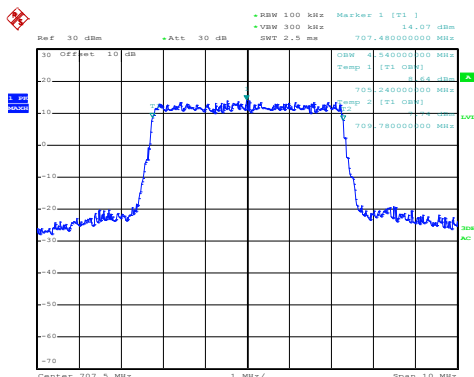
Modulation: QPSK



Date: 5.JUL.2017 15:11:39

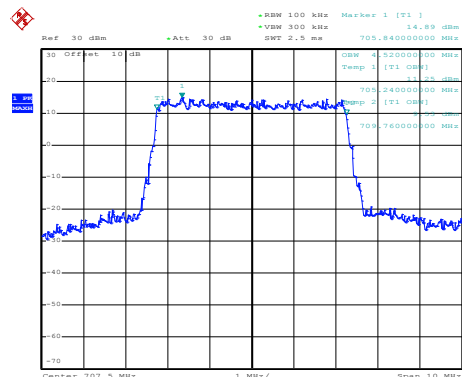
Lowest channel

Modulation: 16QAM



Date: 5.JUL.2017 15:12:47

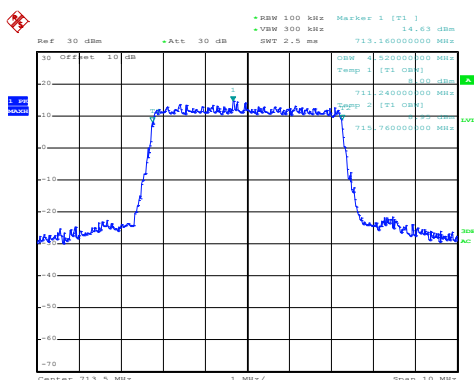
Modulation: QPSK



Date: 5.JUL.2017 15:12:58

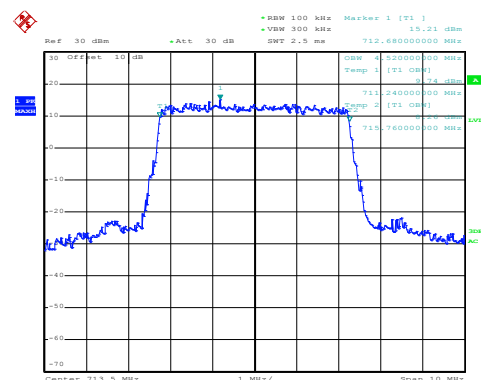
Middle channel

Modulation: 16QAM



Date: 5.JUL.2017 15:13:52

Modulation: QPSK



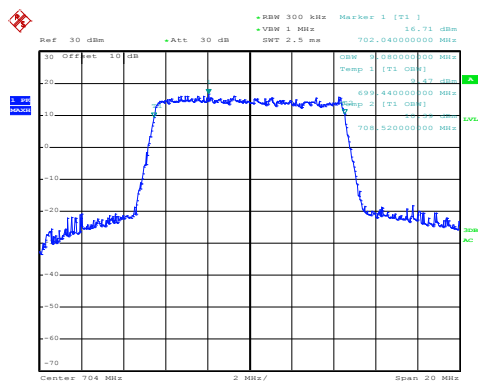
Date: 5.JUL.2017 15:13:40

Highest channel

Test Item:99% Occupy bandwidth

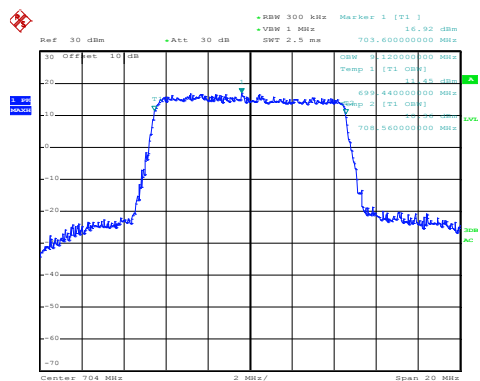
BW: 10MHz

Modulation:16QAM



Date: 5.JUL.2017 15:16:39

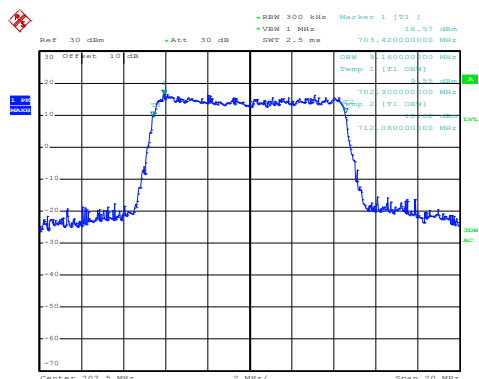
Modulation: QPSK



Date: 5.JUL.2017 15:16:03

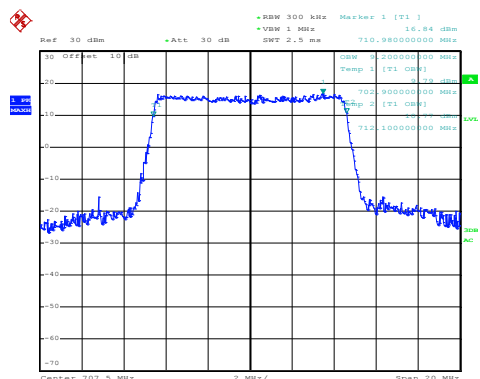
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:17:41

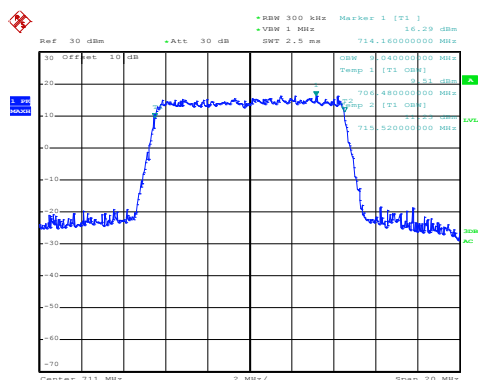
Modulation: QPSK



Date: 5.JUL.2017 15:17:27

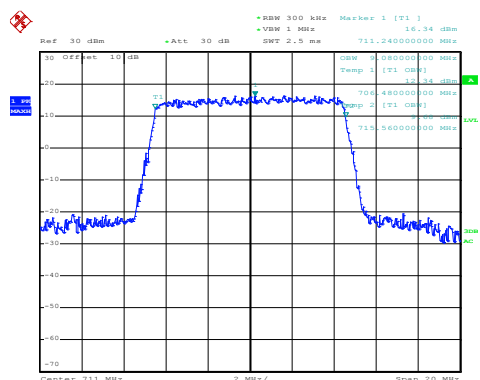
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:18:41

Modulation: QPSK



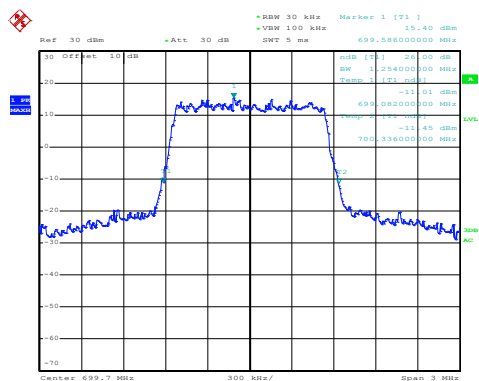
Date: 5.JUL.2017 15:18:29

Highest channel

Test Item:-26dBc bandwidth

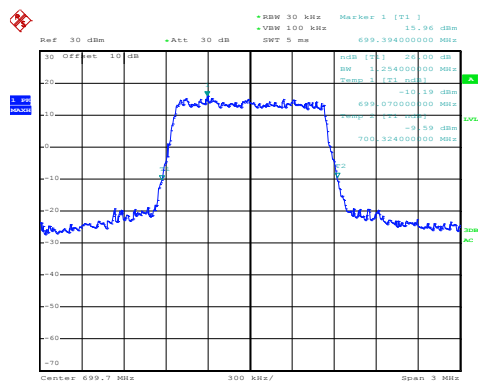
BW: 1.4MHz

Modulation:16QAM



Date: 5.JUL.2017 14:44:40

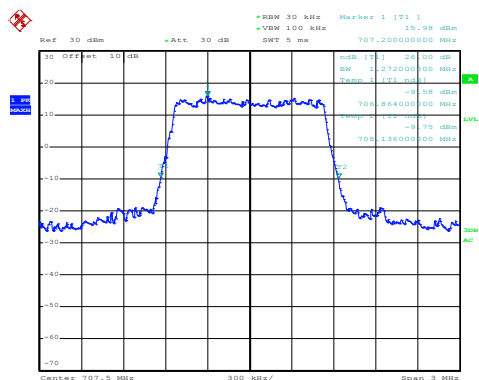
Modulation: QPSK



Date: 5.JUL.2017 14:44:29

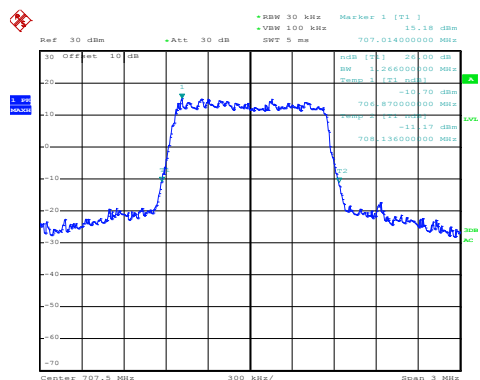
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 14:46:13

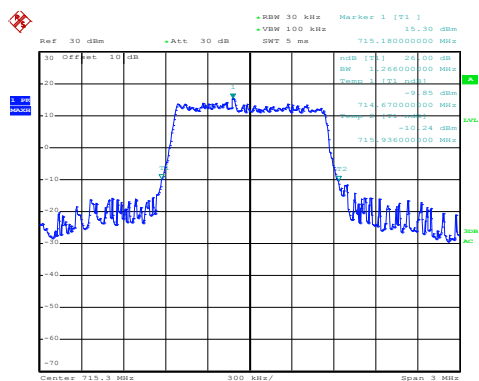
Modulation: QPSK



Date: 5.JUL.2017 14:45:58

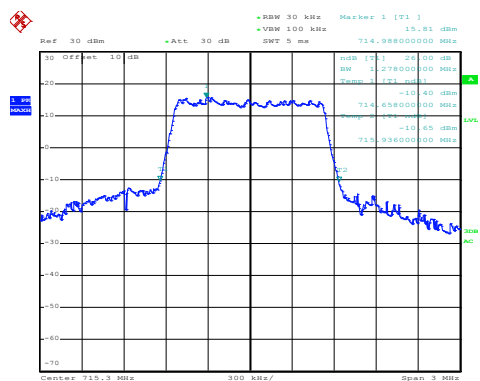
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 14:48:11

Modulation: QPSK



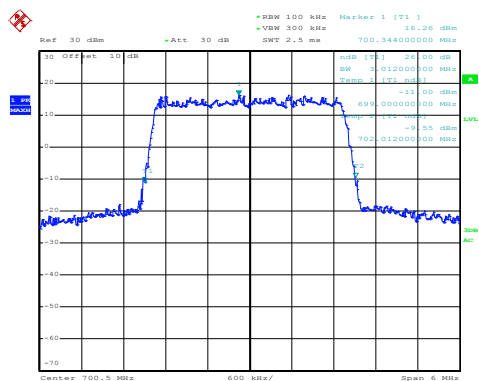
Date: 5.JUL.2017 14:47:34

Highest channel

Test Item:-26dBc bandwidth

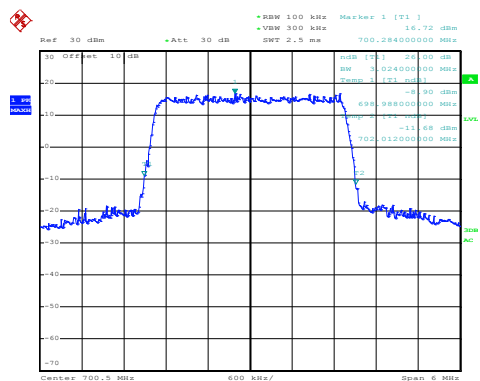
BW: 3MHz

Modulation:16QAM



Date: 5.JUL.2017 15:08:41

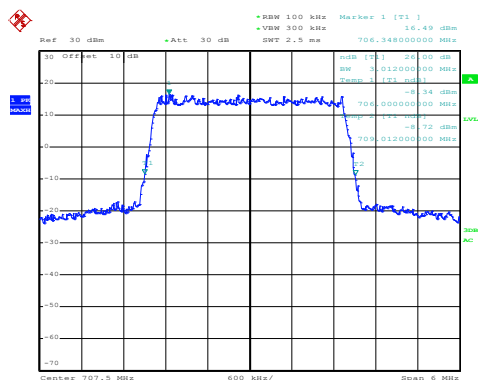
Modulation: QPSK



Date: 5.JUL.2017 15:08:10

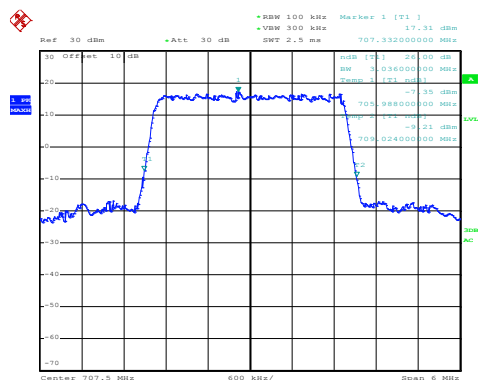
Lowest channel

Modulation:16QAM



Date: 5.JUL.2017 15:09:07

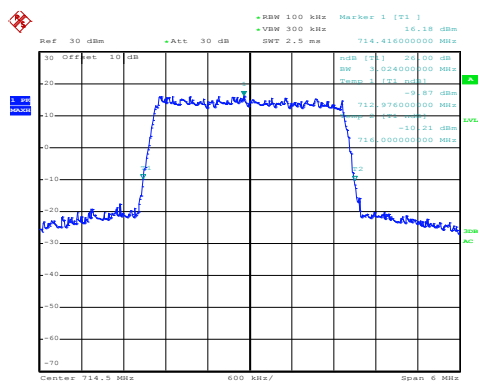
Modulation: QPSK



Date: 5.JUL.2017 15:09:52

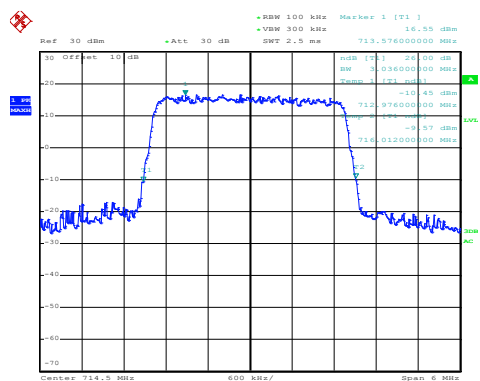
Middle channel

Modulation:16QAM



Date: 5.JUL.2017 15:10:42

Modulation: QPSK



Date: 5.JUL.2017 15:10:12

Highest channel