

# FCC Test Report

Product Name : Module  
Trade Name :   
Model No. : LE910C1-LA, LE910C4-LA  
FCC ID : RI7LE910CXLA

Applicant : Telit Communications S.p.A.

Address : Viale Stazione di Prosecco, 5/B, 34010 Sgonico TRIESTE – ITALY

Date of Receipt : Jul. 15, 2019  
Issued Date : Jul. 25, 2019  
Report No. : 1970268R-HPUSP55V00  
Report Version : V1.0



The test results relate only to the samples tested.

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# Test Report Certification

Issued Date : Jul. 25, 2019

Report No. : 1970268R-HPUSP55V00



Product Name : Module  
 Applicant : Telit Communications S.p.A.  
 Address : Viale Stazione di Prosecco, 5/B, 34010 Sgonico TRIESTE – ITALY  
 Manufacturer : Telit Communications S.p.A.  
 Address : Via Stazione di Prosecco, 5/B, 34010 Sgonico TRIESTE – ITALY  
 Trade name :   
 Model No. : LE910C1-LA, LE910C4-LA  
 FCC ID : RI7LE910CXLA  
 EUT Voltage : DC 3.8V  
 Testing Voltage : DC 3.8V  
 Applicable Standard : FCC CFR Title 47 Part 22 Subpart H  
 FCC CFR Title 47 Part 24 Subpart E  
 FCC CFR Title 47 Part 27 Subpart L, Subpart M  
 ANSI/TIA-603  
 KDB 971168 D01 Power Meas License Digital Systems v03  
 Test Lab : Hsin Chu Laboratory  
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 TEL: +886-3-582-8001 / FAX: +886-3-582-8958  
 Test Result : Complied

Documented By :   
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 ( Fonbo Fang / Engineering Adm. Specialist )

Tested By :   
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 ( Clemens Fang / Senior Engineer )

Approved By :   
 \_\_\_\_\_  
 ( Louis Hsu / Deputy Manager )

**Revision History**

| <b>Report No.</b>   | <b>Version</b> | <b>Description</b>      | <b>Issued Date</b> |
|---------------------|----------------|-------------------------|--------------------|
| 1970268R-HPUSP55V00 | V1.0           | Initial issue of report | Jul. 25, 2019      |
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## 1. General Information

### 1.1. EUT Description

|                                |  |
|--------------------------------|--|
| Product Name                   | Module   |
| Trade Name                     |           |
| Model No.                      | LE910C1-LA, LE910C4-LA   |
| Uplink Frequency Range (MHz)   | Band 2: 1850~1910MHz<br>Band 4: 1710~1755MHz<br>Band 5: 824~849MHz<br>Band 7: 2500~2570MHz |
| Downlink Frequency Range (MHz) | Band 2: 1930~1990MHz<br>Band 4: 2110~2155MHz<br>Band 5: 869~894MHz<br>Band 7: 2620~2690MHz |
| Modulation                     | QPSK /16QAM  |
| HW Version                     | 1.0  |
| Firmware Version               | 25.20.272-B024   |

| Accessories Information |       |
|-------------------------|-------|
| Antenna                 | 1 pcs |

| Antenna Information |  |
|---------------------|--|
| MFR. / Model        | Hankook / WE14-LF-07   |
| Antenna Type        | Dipole Antenna   |
| Antenna Gain        | LTE Band 2/4: 3.5dBi<br>LTE Band 5: 1.5dBi<br>LTE Band 7: 3dBi |

Note:

1. This device support GSM 850, PCS 1900, WCDMA Band 2/4/5 and LTE Band 2/4/5/7.
2. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
3. For customer needs, reuse the LE910C1-LA test data from original report 1930357R and add one model LE910C4-LA to apply for a new FCC ID. Please find the declaration in attachment 4, the difference between LE910C1-LA and LE910C4-LA is replace a baseband chip, two of baseband Qualcomm chip has different capability. The different of each model is shown as below:

| Report Number | Model Name                                       | Description   |
|---------------|--|---|
| 1930357R      | LE910C1-LA<br>(FCC ID: RI7LE910C1LA)             | LE910C1-LA: Qualcomm (MDM9207-1) support DL speed for category 1. |
| 1970268R      | LE910C1-LA, LE910C4-LA<br>(FCC ID: RI7LE910CXLA) | LE910C4-LA: Qualcomm (MDM9207-0) support DL speed for category 4. |

After the evaluation, this change does not affect the RF function, so no verification is required. In addition to the above information, this device is identical with original project.

## 1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode          |
|--------------------|
| Mode 1: LTE Band 2 |
| Mode 2: LTE Band 4 |
| Mode 3: LTE Band 5 |
| Mode 4: LTE Band 7 |

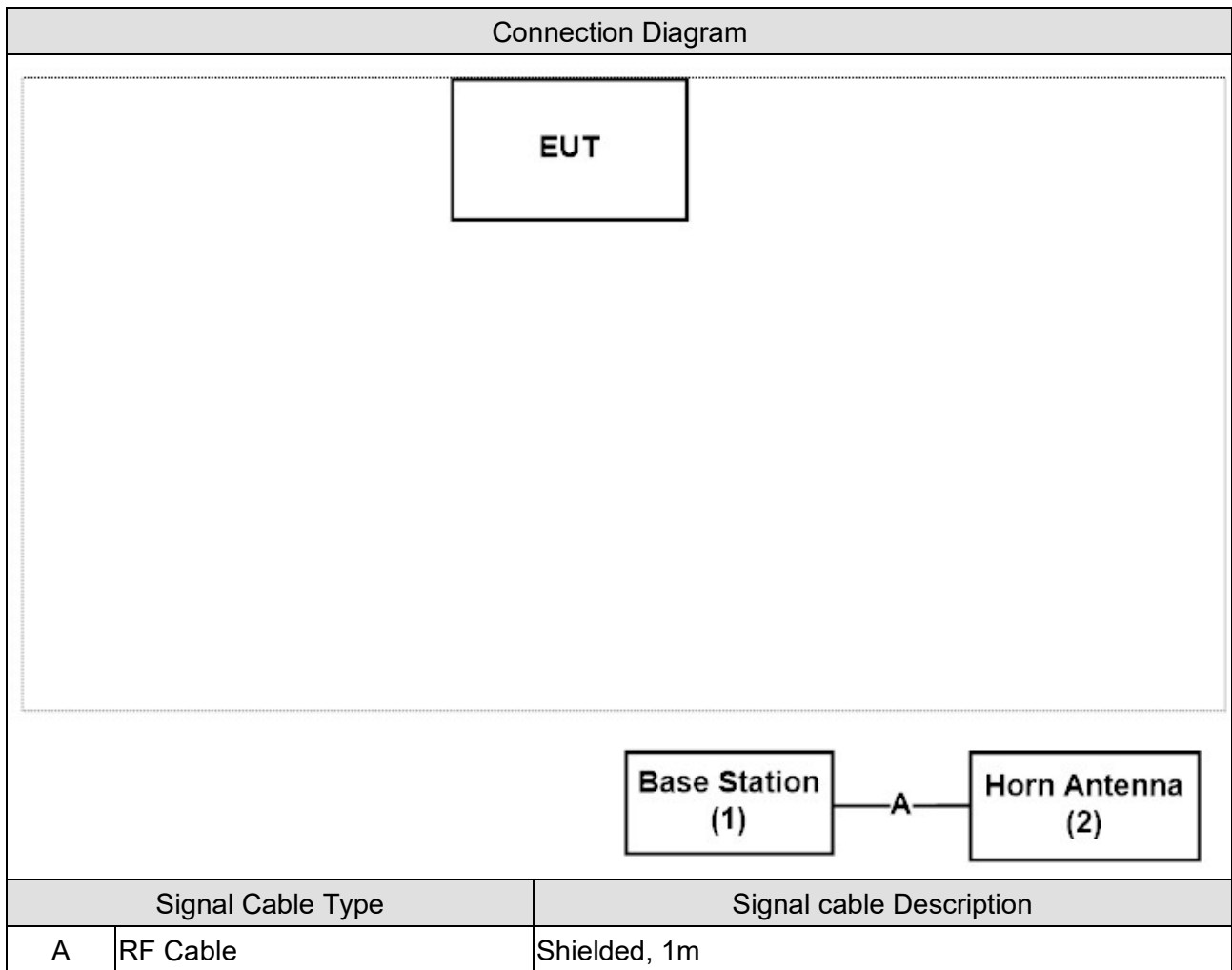


### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product        | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord        |
|----------------|--------------|-----------|------------|--------|-------------------|
| 1 Base Station | R&S          | CMW500    | 106071     | DoC    | Non-Shielded, 2m. |
| 2 Horn Antenna | schwahnbeck  | BBHA9120B | 639        | DoC    | --                |

### 1.4. Configuration of Tested System



### 1.5. EUT Exercise Software

|   |   |
|---|---|
| 1 | Setup the EUT and simulators as shown on 1.4.                           |
| 2 | Turn on the power of all equipment. Horn link with base station.        |
| 3 | The EUT link with base station and it will continue receive the signal. |
| 4 | Repeat the above procedure.   |

**2. Technical Test**

**2.1. Summary of Test Result**

B2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

| LTE B2                                  |                               |           |        |
|---|-------------------------------|-----------|--------|
| FCC Part 24 Subpart E                   |                               |           |        |
| Test item                               | FCC Reference section         | FCC Limit | Result |
| RF Output Power                         | §2.1033<br>§2.1046<br>§24.232 | <2 Watts  | Pass   |
| Occupied Bandwidth                      | §2.1049                       | N/A       | Pass   |
| Peak-to-average power ratio             | §24.232                       | <13 dB    | Pass   |
| Spurious Emissions                      | §2.1053<br>§24.238            | <-13dBm   | Pass   |
| Spurious Emissions at Antenna Terminals | §27.238                       | <-13dBm   | Pass   |
| Frequency Stability                     | §2.1055<br>§24.235            | <±2.5 ppm | Pass   |

B4

Uplink: 1710-1755MHz

Downlink: 2110-2155MHz

| LTE B4                                  |                              |           |        |
|---|------------------------------|-----------|--------|
| FCC Part 27 Subpart L                   |                              |           |        |
| Test item                               | FCC Reference section        | FCC Limit | Result |
| RF Output Power                         | §2.1033<br>§2.1046<br>§27.50 | <1 Watt   | Pass   |
| Occupied Bandwidth                      | §2.1049                      | N/A       | Pass   |
| Peak-to-average power ratio             | §27.50                       | <13 dB    | Pass   |
| Spurious Emissions                      | §2.1053<br>§27.53            | <-13dBm   | Pass   |
| Spurious Emissions at Antenna Terminals | §27.53                       | <-13dBm   | Pass   |
| Frequency Stability                     | §2.1055<br>§27.54            | <2.5 ppm  | Pass   |

B5

Uplink: 824-849MHz

Downlink: 869-894MHz

| LTE B5                                  |                               |           |        |
|---|-------------------------------|-----------|--------|
| FCC Part 22 Subpart H                   |                               |           |        |
| Test item                               | FCC Reference section         | FCC Limit | Result |
| RF Output Power                         | §2.1033<br>§2.1046<br>§22.913 | <7 Watts  | Pass   |
| Occupied Bandwidth                      | §2.1049                       | N/A       | Pass   |
| Peak-to-average power ratio             | §22.913                       | <13 dB    | Pass   |
| Spurious Emissions                      | §2.1053<br>§22.917            | <-13dBm   | Pass   |
| Spurious Emissions at Antenna Terminals | §22.917                       | <-13dBm   | Pass   |
| Frequency Stability                     | §2.1055<br>§22.335            | <±2.5 ppm | Pass   |

B7

Uplink: 2500-2570MHz

Downlink: 2620-2690MHz

| LTE B7                                  |                              |  |        |
|---|------------------------------|--|--------|
| FCC Part 27 Subpart M                   |                              |  |        |
| Test item                               | FCC Reference section        | FCC Limit  | Result |
| RF Output Power                         | §2.1033<br>§2.1046<br>§27.50 | <2 Watts   | Pass   |
| Occupied Bandwidth                      | §2.1049                      | N/A  | Pass   |
| Peak-to-average power ratio             | §27.50                       | <13 dB   | Pass   |
| Spurious Emissions                      | §2.1053<br>§27.53            | <-25dBm  | Pass   |
| Spurious Emissions at Antenna Terminals | §27.53                       | <5MHz:-10dBm<br>5MHz-X<br>MHz:-13dBm>X<br>MHz:-25dBm | Pass   |
| Frequency Stability                     | §2.1055<br>§27.54            | <±2.5 ppm  | Pass   |

## 2.2. Test Environment

| Items                      | Required (IEC 68-1) | Actual   | Test Site |
|----------------------------|---------------------|----------|-----------|
| Temperature (°C)           | 15-35               | 23       | 2 & 3     |
| Humidity (%RH)             | 25-75               | 52       |           |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |           |

Note: Test site information refers to Laboratory Information.

## 2.3. Laboratory Information

**USA** : **FCC Registration Number: TW3024**  
**Canada** : **IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : [http://www.dekra.com.tw/index\\_en.aspx](http://www.dekra.com.tw/index_en.aspx)

If you have any comments, please don't hesitate to contact us. Our test sites as below:

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 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : [info.tw@dekra.com](mailto:info.tw@dekra.com)
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 TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : [info.tw@dekra.com](mailto:info.tw@dekra.com)

## 2.4. List of Test Equipment

### RF Output Power / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

### Occupied Bandwidth / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

### Peak To Average Ratio / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

### Conducted Spurious Emissions / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

Radiated Spurious Emissions / CB2-H

| Instrument                          | Manufacturer | Model No.                       | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|---------------------------------|------------|------------|----------------|
| Horn Antenna                        | Schwarzbeck  | BBHA 9120D                      | 639        | 2018/06/01 | 2019/05/31     |
| Bilog Antenna                       | Teseq        | CBL6112D                        | 23191      | 2018/06/26 | 2019/06/25     |
| Signal & Spectrum Analyzer          | R&S          | FSV40                           | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A                          | MY51440132 | 2019/03/15 | 2020/03/14     |
| Signal Analyzer                     | R&S          | FSVA40                          | 101455     | 2018/11/05 | 2019/11/04     |
| Horn Antenna                        | Schwarzbeck  | BBHA 9170                       | 202        | 2019/01/16 | 2020/01/15     |
| Pre-Amplifier                       | Dekra        | AP-400C                         | 201801231  | 2018/12/05 | 2019/12/04     |
| Pre-Amplifier                       | EMCI         | EMC11830I                       | 980366     | 2018/12/21 | 2019/12/20     |
| Horn Antenna                        | Schwarzbeck  | BBHA 9120D                      | 01656      | 2018/10/17 | 2019/10/16     |
| Pre-Amplifier                       | Dekra        | AP-025C                         | 201801236  | 2019/02/18 | 2020/02/17     |
| Signal Analyzer                     | R&S          | FSV40                           | 101435     | 2018/07/19 | 2019/07/18     |
| Wideband Radio Communication Tester | R&S          | CMW500                          | 106071     | 2019/01/16 | 2020/01/15     |
| Wireless Conn. Tseter               | R&S          | CMW500                          | 157118     | 2018/08/16 | 2019/08/15     |
| Coaxial Cable                       | Huber+Suhner | SF104_SF104_SF104_SF104 (16.0m) | CB2-H      | 2018/08/21 | 2019/08/20     |

Spurious Emissions at Antenna Terminals / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

Frequency Stability / SR10-H

| Instrument                          | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer          | R&S          | FSV40     | 101049     | 2018/12/21 | 2019/12/20     |
| EXA Signal Analyzer                 | Keysight     | N9010A    | MY51440132 | 2019/03/15 | 2020/03/14     |
| Spectrum Analyzer                   | Keysight     | N9030B    | MY57140404 | 2018/06/26 | 2019/06/25     |
| Spectrum Analyzer                   | Keysight     | N9010B    | MY57110159 | 2018/05/25 | 2019/05/24     |
| Wireless Conn. Tseter               | R&S          | CMW500    | 157118     | 2018/08/16 | 2019/08/15     |
| Wideband Radio Communication Tester | R&S          | CMW500    | 106071     | 2019/01/16 | 2020/01/15     |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

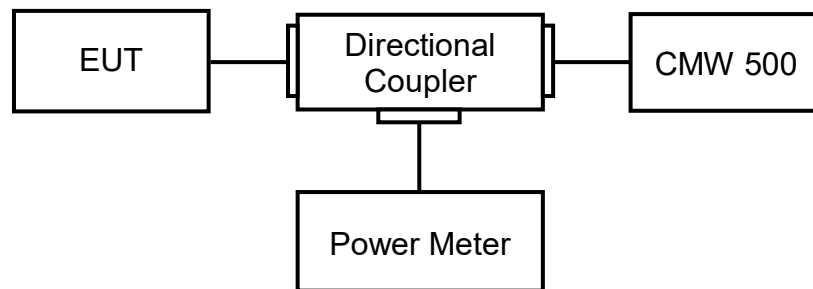


## 2.5. Uncertainty

| Test Item                               | Uncertainty  |
|---|--|
| RF Output Power                         | $\pm 1.27$ dB  |
| Occupied Bandwidth                      | $\pm 10$ Hz  |
| Peak To Average Ratio                   | not exceed 13 dB   |
| Spurious Emissions                      | $\pm 1.27$ dB for Conducted Measurement<br>$\pm 3.2$ dB for Radiated Measurement |
| Spurious Emissions at Antenna Terminals | $\pm 3.2$ dB   |
| Frequency Stability                     | $\pm 10$ Hz  |

### 3. RF Output Power

#### 3.1. Test Setup



#### 3.2. Test Procedure

- a) The RF output of the transmitter was connected to base station simulator.
- b) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement..
- c) Set EUT at maximum average power by base station simulator.
- d) Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

#### 3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.2.4

ANSI C63.26: 2015 Sub-clause 5.2.4.2

### 3.4. Test Result

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 2 / 1.4MHz | CH 18607 1850.7MHz  | QPSK       | 1      | 0         | 0     | 23.40                        | 0.490                    | 2              |
|                 |                     |            |        | 2         |       | 23.33                        | 0.482                    | 2              |
|                 |                     |            |        | 5         |       | 23.32                        | 0.481                    | 2              |
|                 |                     |            | 3      | 0         | 0     | 22.95                        | 0.442                    | 2              |
|                 |                     |            |        | 1         |       | 22.84                        | 0.431                    | 2              |
|                 |                     |            |        | 3         |       | 22.89                        | 0.436                    | 2              |
|                 |                     | 6          | 0      | 1         | 22.45 | 0.394                        | 2                        |                |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.41                        | 0.390                    | 2              |
|                 |                     |            |        | 2         |       | 22.38                        | 0.387                    | 2              |
|                 |                     |            |        | 5         |       | 22.31                        | 0.381                    | 2              |
|                 |                     |            | 3      | 0         | 1     | 21.97                        | 0.352                    | 2              |
|                 |                     |            |        | 1         |       | 21.90                        | 0.347                    | 2              |
|                 | 3                   |            |        | 21.92     |       | 0.348                        | 2                        |                |
|                 | 6                   | 0          | 2      | 21.64     | 0.327 | 2                            |                          |                |
|                 | CH 18900 1880MHz    | QPSK       | 1      | 0         | 0     | 23.37                        | 0.486                    | 2              |
|                 |                     |            |        | 2         |       | 23.35                        | 0.484                    | 2              |
|                 |                     |            |        | 5         |       | 23.31                        | 0.480                    | 2              |
|                 |                     |            | 3      | 0         | 0     | 22.94                        | 0.441                    | 2              |
|                 |                     |            |        | 1         |       | 22.88                        | 0.435                    | 2              |
|                 |                     |            |        | 3         |       | 22.86                        | 0.433                    | 2              |
|                 |                     | 6          | 0      | 1         | 22.30 | 0.380                        | 2                        |                |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.38                        | 0.387                    | 2              |
|                 |                     |            |        | 2         |       | 22.35                        | 0.385                    | 2              |
|                 |                     |            |        | 5         |       | 22.30                        | 0.380                    | 2              |
| 3               |                     |            | 0      | 1         | 21.91 | 0.348                        | 2                        |                |
|                 |                     |            | 1      |           | 21.82 | 0.340                        | 2                        |                |
|                 | 3                   |            | 21.85  |           | 0.343 | 2                            |                          |                |
| 6               | 0                   | 2          | 21.46  | 0.313     | 2     |                              |                          |                |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 2 / 1.4MHz | CH 19193 1909.3MHz  | QPSK       | 1      | 0         | 0     | 23.18                        | 0.466                    | 2              |   |
|                 |                     |            |        | 2         |       | 23.12                        | 0.459                    | 2              |   |
|                 |                     |            |        | 5         |       | 23.04                        | 0.451                    | 2              |   |
|                 |                     |            | 3      | 0         | 0     | 22.74                        | 0.421                    | 2              |   |
|                 |                     |            |        | 1         |       | 22.68                        | 0.415                    | 2              |   |
|                 |                     |            |        | 3         |       | 22.66                        | 0.413                    | 2              |   |
|                 |                     |            | 6      | 0         | 1     | 22.47                        | 0.395                    | 2              |   |
|                 |                     |            | 16-QAM | 1         | 1     | 0                            | 22.36                    | 0.385          | 2 |
|                 |                     |            |        |           |       | 2                            | 22.30                    | 0.380          | 2 |
|                 |                     | 5          |        |           |       | 22.15                        | 0.367                    | 2              |   |
|                 |                     | 3          |        | 1         | 0     | 21.89                        | 0.346                    | 2              |   |
|                 |                     |            |        |           | 1     | 21.80                        | 0.339                    | 2              |   |
|                 |                     |            |        |           | 3     | 21.77                        | 0.337                    | 2              |   |
|                 |                     | 6          | 0      | 2         | 21.37 | 0.307                        | 2                        |                |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 2 / 3MHz | CH 18615 1851.5MHz  | QPSK       | 1      | 0         | 0     | 23.36                        | 0.485                    | 2              |
|               |                     |            |        | 7         |       | 23.28                        | 0.476                    | 2              |
|               |                     |            |        | 14        |       | 23.25                        | 0.473                    | 2              |
|               |                     |            | 7      | 0         | 1     | 22.95                        | 0.442                    | 2              |
|               |                     |            |        | 4         |       | 22.90                        | 0.437                    | 2              |
|               |                     |            |        | 8         |       | 22.88                        | 0.435                    | 2              |
|               |                     | 15         | 0      | 1         | 22.52 | 0.400                        | 2                        |                |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.52                        | 0.400                    | 2              |
|               |                     |            |        | 7         |       | 22.50                        | 0.398                    | 2              |
|               |                     |            |        | 14        |       | 22.48                        | 0.396                    | 2              |
|               |                     |            | 7      | 0         | 2     | 21.94                        | 0.350                    | 2              |
|               |                     |            |        | 4         |       | 21.80                        | 0.339                    | 2              |
|               | 8                   |            |        | 21.77     |       | 0.337                        | 2                        |                |
|               | 15                  | 0          | 2      | 21.32     | 0.303 | 2                            |                          |                |
|               | CH 18900 1880MHz    | QPSK       | 1      | 0         | 0     | 23.28                        | 0.476                    | 2              |
|               |                     |            |        | 7         |       | 23.26                        | 0.474                    | 2              |
|               |                     |            |        | 14        |       | 23.25                        | 0.473                    | 2              |
|               |                     |            | 7      | 0         | 1     | 22.82                        | 0.429                    | 2              |
|               |                     |            |        | 4         |       | 22.74                        | 0.421                    | 2              |
|               |                     |            |        | 8         |       | 22.66                        | 0.413                    | 2              |
|               |                     | 15         | 0      | 1         | 22.36 | 0.385                        | 2                        |                |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.64                        | 0.411                    | 2              |
|               |                     |            |        | 7         |       | 22.45                        | 0.394                    | 2              |
|               |                     |            |        | 14        |       | 22.29                        | 0.379                    | 2              |
| 7             |                     |            | 0      | 2         | 22.10 | 0.363                        | 2                        |                |
|               |                     |            | 4      |           | 22.05 | 0.359                        | 2                        |                |
|               | 8                   |            | 21.98  |           | 0.353 | 2                            |                          |                |
| 15            | 0                   | 2          | 21.72  | 0.333     | 2     |                              |                          |                |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 2 / 3MHz | CH 19185 1908.5MHz  | QPSK       | 1      | 0         | 0     | 23.33                        | 0.482                    | 2              |   |
|               |                     |            |        | 7         |       | 23.25                        |                          |                |   |
|               |                     |            |        | 14        |       | 23.01                        |                          |                |   |
|               |                     |            | 7      | 0         | 1     | 22.76                        | 0.423                    | 2              |   |
|               |                     |            |        | 4         |       | 22.55                        |                          |                |   |
|               |                     |            |        | 8         |       | 22.48                        |                          |                |   |
|               |                     |            | 15     | 0         | 1     | 22.20                        | 0.372                    | 2              |   |
|               |                     |            | 16-QAM | 1         | 0     | 1                            | 22.45                    | 0.394          | 2 |
|               |                     |            |        |           | 7     |                              | 22.41                    |                |   |
|               |                     | 14         |        |           | 22.40 |                              |                          |                |   |
|               |                     | 7          |        | 0         | 2     | 21.85                        | 0.343                    | 2              |   |
|               |                     |            |        | 4         |       | 21.72                        |                          |                |   |
|               |                     |            |        | 8         |       | 21.64                        |                          |                |   |
|               |                     | 15         | 0      | 2         | 21.40 | 0.309                        | 2                        |                |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 2 / 5MHz | CH 18625 1852.5MHz  | QPSK       | 1      | 0         | 0     | 23.39                        | 0.489                    | 2              |
|               |                     |            |        | 12        |       | 23.30                        | 0.479                    | 2              |
|               |                     |            |        | 24        |       | 23.27                        | 0.475                    | 2              |
|               |                     |            | 12     | 1         | 0     | 22.89                        | 0.436                    | 2              |
|               |                     |            |        |           | 6     | 22.80                        | 0.427                    | 2              |
|               |                     |            |        |           | 13    | 22.69                        | 0.416                    | 2              |
|               |                     | 25         | 0      | 22.38     | 0.387 | 2                            |                          |                |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.57                        | 0.405                    | 2              |
|               |                     |            |        |           | 12    | 22.52                        | 0.400                    | 2              |
|               |                     |            |        |           | 24    | 22.51                        | 0.399                    | 2              |
|               |                     |            | 12     | 2         | 0     | 21.88                        | 0.345                    | 2              |
|               |                     |            |        |           | 6     | 21.75                        | 0.335                    | 2              |
|               | 13                  |            |        |           | 21.66 | 0.328                        | 2                        |                |
|               | 25                  | 0          | 21.26  | 0.299     | 2     |                              |                          |                |
|               | CH 18900 1880MHz    | QPSK       | 1      | 0         | 0     | 23.37                        | 0.486                    | 2              |
|               |                     |            |        | 12        |       | 23.32                        | 0.481                    | 2              |
|               |                     |            |        | 24        |       | 23.28                        | 0.476                    | 2              |
|               |                     |            | 12     | 1         | 0     | 22.88                        | 0.435                    | 2              |
|               |                     |            |        |           | 6     | 22.79                        | 0.426                    | 2              |
|               |                     |            |        |           | 13    | 22.70                        | 0.417                    | 2              |
|               |                     | 25         | 0      | 22.34     | 0.384 | 2                            |                          |                |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.41                        | 0.390                    | 2              |
|               |                     |            |        |           | 12    | 22.37                        | 0.386                    | 2              |
|               |                     |            |        |           | 24    | 22.36                        | 0.385                    | 2              |
| 12            |                     |            | 2      | 0         | 21.89 | 0.346                        | 2                        |                |
|               |                     |            |        | 6         | 21.80 | 0.339                        | 2                        |                |
|               | 13                  |            |        | 21.67     | 0.329 | 2                            |                          |                |
| 25            | 0                   | 21.22      | 0.296  | 2         |       |                              |                          |                |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |       |   |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|-------|---|
| Band 2 / 5MHz | CH 19175 1907.5MHz  | QPSK       | 1      | 0         | 0     | 23.21                        | 0.469                    | 2              |       |   |
|               |                     |            |        | 12        |       | 23.19                        |                          |                |       |   |
|               |                     |            |        | 24        |       | 23.16                        |                          |                |       |   |
|               |                     |            | 12     | 0         | 1     | 22.80                        | 0.427                    | 2              |       |   |
|               |                     |            |        | 6         |       | 22.72                        |                          |                |       |   |
|               |                     |            |        | 13        |       | 22.59                        |                          |                |       |   |
|               |                     |            | 25     | 0         |       | 22.26                        | 0.377                    | 2              |       |   |
|               |                     |            | 16-QAM | 1         | 1     | 0                            | 1                        | 22.50          | 0.398 | 2 |
|               |                     |            |        |           |       | 12                           |                          | 22.44          |       |   |
|               |                     | 24         |        |           |       | 22.41                        |                          |                |       |   |
|               |                     | 12         |        | 2         | 0     | 2                            | 21.92                    | 0.348          | 2     |   |
|               |                     |            |        |           | 6     |                              | 21.80                    |                |       |   |
|               |                     |            |        |           | 13    |                              | 21.68                    |                |       |   |
|               |                     | 25         | 0      |           | 21.28 | 0.301                        | 2                        |                |       |   |



|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 2 / 10MHz | 18650 1855 MHz      | QPSK       | 1      | 0         | 0     | 23.22                        | 0.470                    | 2              |
|                |                     |            |        | 24        |       | 23.13                        | 0.460                    | 2              |
|                |                     |            |        | 49        |       | 23.05                        | 0.452                    | 2              |
|                |                     |            | 25     | 0         | 1     | 22.80                        | 0.427                    | 2              |
|                |                     |            |        | 12        |       | 22.69                        | 0.416                    | 2              |
|                |                     |            |        | 25        |       | 22.60                        | 0.407                    | 2              |
|                |                     | 50         | 0      | 1         | 22.28 | 0.378                        | 2                        |                |
|                |                     |            | 1      |           | 0     | 22.31                        | 0.381                    | 2              |
|                |                     |            |        |           | 24    | 22.20                        | 0.372                    | 2              |
|                |                     | 49         |        | 0         | 1     | 22.13                        | 0.366                    | 2              |
|                |                     |            | 27     | 0         |       | 21.46                        | 0.313                    | 2              |
|                |                     |            |        | 12        |       | 21.42                        | 0.310                    | 2              |
|                | 23                  | 0          |        | 2         | 21.32 | 0.303                        | 2                        |                |
|                |                     | 1          | 0      |           | 23.20 | 0.468                        | 2                        |                |
|                |                     |            | 24     |           | 23.15 | 0.462                        | 2                        |                |
|                | 49                  |            | 0      | 0         | 23.04 | 0.451                        | 2                        |                |
|                |                     | 25         | 0      |           | 22.78 | 0.425                        | 2                        |                |
|                |                     |            | 12     |           | 22.70 | 0.417                        | 2                        |                |
|                | 25                  |            | 0      | 1         | 22.58 | 0.406                        | 2                        |                |
|                |                     | 50         | 0      |           | 22.22 | 0.373                        | 2                        |                |
|                |                     |            | 1      |           | 0     | 22.08                        | 0.361                    | 2              |
|                | 24                  |            |        | 0         | 1     | 21.94                        | 0.350                    | 2              |
|                |                     | 49         |        | 21.88     |       | 0.345                        | 2                        |                |
|                |                     | 27         | 0      | 2         |       | 21.25                        | 0.299                    | 2              |
| 12             | 21.23               |            | 0.297  |           | 2     |                              |                          |                |
| 23             | 21.14               |            | 0.291  |           | 2     |                              |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 2 / 10MHz | CH 19150 1905 MHz   | QPSK       | 1      | 0         | 0   | 23.12                        | 0.459                    | 2              |   |
|                |                     |            |        | 24        |     | 23.10                        | 0.457                    | 2              |   |
|                |                     |            |        | 49        |     | 23.07                        | 0.454                    | 2              |   |
|                |                     |            | 25     | 0         | 1   | 22.77                        | 0.424                    | 2              |   |
|                |                     |            |        | 12        |     | 22.66                        | 0.413                    | 2              |   |
|                |                     |            |        | 25        |     | 22.52                        | 0.400                    | 2              |   |
|                |                     |            | 50     | 0         |     | 22.19                        | 0.371                    | 2              |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 22.09                    | 0.362          | 2 |
|                |                     |            |        |           |     | 24                           | 22.05                    | 0.359          | 2 |
|                |                     | 49         |        |           |     | 21.97                        | 0.352                    | 2              |   |
|                |                     | 27         |        | 2         | 0   | 21.35                        | 0.305                    | 2              |   |
|                |                     |            |        |           | 12  | 21.30                        | 0.302                    | 2              |   |
|                |                     |            |        |           | 23  | 21.22                        | 0.296                    | 2              |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |       |   |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|-------|---|
| Band 2 / 15MHz | 18675<br>1857.5 MHz | QPSK       | 1      | 0         | 0     | 23.22                        | 0.470                    | 2              |       |   |
|                |                     |            |        | 37        |       | 23.18                        | 0.466                    | 2              |       |   |
|                |                     |            |        | 74        |       | 23.11                        | 0.458                    | 2              |       |   |
|                |                     |            | 37     | 0         | 1     | 22.82                        | 0.429                    | 2              |       |   |
|                |                     |            |        | 19        |       | 22.76                        | 0.423                    | 2              |       |   |
|                |                     |            |        | 38        |       | 22.68                        | 0.415                    | 2              |       |   |
|                |                     | 75         | 0      | 1         | 22.21 | 0.372                        | 2                        |                |       |   |
|                |                     |            | 1      |           | 0     | 1                            | 22.31                    | 0.381          | 2     |   |
|                |                     |            |        |           | 37    |                              | 23.25                    | 0.473          | 2     |   |
|                |                     | 74         |        | 22.14     | 0.366 |                              | 2                        |                |       |   |
|                |                     | 16-QAM     | 27     | 0         | 2     | 21.44                        | 0.312                    | 2              |       |   |
|                |                     |            |        |           |       | 24                           | 21.41                    | 0.310          | 2     |   |
|                | 48                  |            |        |           |       | 21.36                        | 0.306                    | 2              |       |   |
|                | 1                   |            | 0      | 0         | 23.14 | 0.461                        | 2                        |                |       |   |
|                |                     |            |        |           | 37    | 23.05                        | 0.452                    | 2              |       |   |
|                |                     |            |        |           | 74    | 23.02                        | 0.449                    | 2              |       |   |
|                | QPSK                | 37         | 0      | 1         | 22.65 | 0.412                        | 2                        |                |       |   |
|                |                     |            |        |           | 19    | 22.52                        | 0.400                    | 2              |       |   |
|                |                     |            |        |           | 38    | 22.45                        | 0.394                    | 2              |       |   |
|                |                     | 75         | 0      | 1         | 22.14 | 0.366                        | 2                        |                |       |   |
|                |                     |            |        |           | 1     | 0                            | 1                        | 22.23          | 0.374 | 2 |
|                |                     |            |        |           |       | 37                           |                          | 22.18          | 0.370 | 2 |
|                | 74                  | 22.15      | 0.367  | 2         |       |                              |                          |                |       |   |
|                | 16-QAM              | 27         | 0      | 2         | 21.44 | 0.312                        | 2                        |                |       |   |
| 24             |                     |            |        |           | 21.40 | 0.309                        | 2                        |                |       |   |
| 48             |                     |            |        |           | 21.31 | 0.303                        | 2                        |                |       |   |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 2 / 15MHz | 19125<br>1902.5 MHz | QPSK       | 1      | 0         | 0   | 23.18                        | 0.466                    | 2              |   |
|                |                     |            |        | 37        |     | 23.15                        | 0.462                    | 2              |   |
|                |                     |            |        | 74        |     | 23.08                        | 0.455                    | 2              |   |
|                |                     |            | 37     | 0         | 1   | 22.71                        | 0.418                    | 2              |   |
|                |                     |            |        | 19        |     | 22.65                        | 0.412                    | 2              |   |
|                |                     |            |        | 38        |     | 22.49                        | 0.397                    | 2              |   |
|                |                     |            | 75     | 0         |     | 22.19                        | 0.371                    | 2              |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 22.09                    | 0.362          | 2 |
|                |                     |            |        |           |     | 37                           | 22.02                    | 0.356          | 2 |
|                |                     | 74         |        |           |     | 21.94                        | 0.350                    | 2              |   |
|                |                     | 27         |        | 2         | 0   | 21.32                        | 0.303                    | 2              |   |
|                |                     |            |        |           | 24  | 21.29                        | 0.301                    | 2              |   |
|                |                     |            |        |           | 48  | 21.20                        | 0.295                    | 2              |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 2 / 20MHz | 18700<br>1860 MHz   | QPSK       | 1      | 0         | 0     | 23.20                        | 0.468                    | 2              |
|                |                     |            |        | 49        |       | 23.15                        | 0.462                    | 2              |
|                |                     |            |        | 99        |       | 23.14                        | 0.461                    | 2              |
|                |                     |            | 50     | 0         | 1     | 22.88                        | 0.435                    | 2              |
|                |                     |            |        | 25        |       | 22.80                        | 0.427                    | 2              |
|                |                     |            |        | 50        |       | 22.68                        | 0.415                    | 2              |
|                |                     | 100        | 0      |           | 22.35 | 0.385                        | 2                        |                |
|                |                     | 16-QAM     | 1      | 1         | 0     | 22.42                        | 0.391                    | 2              |
|                |                     |            |        |           | 49    | 22.37                        | 0.386                    | 2              |
|                |                     |            |        |           | 99    | 22.35                        | 0.385                    | 2              |
|                |                     |            | 27     | 2         | 0     | 21.43                        | 0.311                    | 2              |
|                |                     |            |        |           | 36    | 21.40                        | 0.309                    | 2              |
|                | 73                  |            |        |           | 21.33 | 0.304                        | 2                        |                |
|                | 18900<br>1880 MHz   | QPSK       | 1      | 0         | 0     | 23.16                        | 0.463                    | 2              |
|                |                     |            |        | 49        |       | 23.13                        | 0.460                    | 2              |
|                |                     |            |        | 99        |       | 23.09                        | 0.456                    | 2              |
|                |                     |            | 50     | 1         | 0     | 22.75                        | 0.422                    | 2              |
|                |                     |            |        |           | 25    | 22.68                        | 0.415                    | 2              |
|                |                     |            |        |           | 50    | 22.56                        | 0.404                    | 2              |
|                |                     | 100        | 0      |           | 22.18 | 0.370                        | 2                        |                |
|                |                     | 16-QAM     | 1      | 1         | 0     | 22.13                        | 0.366                    | 2              |
|                |                     |            |        |           | 49    | 22.10                        | 0.363                    | 2              |
|                |                     |            |        |           | 99    | 22.05                        | 0.359                    | 2              |
|                |                     |            | 27     | 2         | 0     | 21.38                        | 0.308                    | 2              |
| 36             |                     |            |        |           | 21.35 | 0.305                        | 2                        |                |
| 73             | 21.29               |            |        |           | 0.301 | 2                            |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 2 / 20MHz | 19100<br>1900 MHz   | QPSK       | 1      | 0         | 0   | 23.17                        | 0.465                    | 2              |   |
|                |                     |            |        | 49        |     | 23.10                        | 0.457                    | 2              |   |
|                |                     |            |        | 99        |     | 23.05                        | 0.452                    | 2              |   |
|                |                     |            | 50     | 0         | 1   | 22.68                        | 0.415                    | 2              |   |
|                |                     |            |        | 25        |     | 22.60                        | 0.407                    | 2              |   |
|                |                     |            |        | 50        |     | 22.49                        | 0.397                    | 2              |   |
|                |                     |            | 100    | 0         |     | 22.03                        | 0.357                    | 2              |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 22.30                    | 0.380          | 2 |
|                |                     |            |        |           |     | 49                           | 22.22                    | 0.373          | 2 |
|                |                     | 99         |        |           |     | 22.15                        | 0.367                    | 2              |   |
|                |                     | 27         |        | 2         | 0   | 21.40                        | 0.309                    | 2              |   |
|                |                     |            |        |           | 36  | 21.37                        | 0.307                    | 2              |   |
|                |                     |            |        |           | 73  | 21.30                        | 0.302                    | 2              |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 4 / 1.4MHz | 19957 1710.7 MHz    | QPSK       | 1      | 0         | 0     | 22.98                        | 0.445                    | 1              |
|                 |                     |            |        | 2         |       | 22.90                        | 0.437                    | 1              |
|                 |                     |            |        | 5         |       | 22.86                        | 0.433                    | 1              |
|                 |                     |            | 3      | 0         | 0     | 22.45                        | 0.394                    | 1              |
|                 |                     |            |        | 1         |       | 22.40                        | 0.389                    | 1              |
|                 |                     |            |        | 3         |       | 22.32                        | 0.382                    | 1              |
|                 |                     | 6          | 0      | 1         | 22.01 | 0.356                        | 1                        |                |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.06                        | 0.360                    | 1              |
|                 |                     |            |        | 2         |       | 21.95                        | 0.351                    | 1              |
|                 |                     |            |        | 5         |       | 21.84                        | 0.342                    | 1              |
|                 |                     |            | 3      | 0         | 1     | 21.32                        | 0.303                    | 1              |
|                 |                     |            |        | 1         |       | 21.25                        | 0.299                    | 1              |
|                 | 3                   |            |        | 21.22     |       | 0.296                        | 1                        |                |
|                 | 6                   | 0          | 2      | 20.99     | 0.281 | 1                            |                          |                |
|                 | 20175 1732.5 MHz    | QPSK       | 1      | 0         | 0     | 23.02                        | 0.449                    | 1              |
|                 |                     |            |        | 2         |       | 22.99                        | 0.446                    | 1              |
|                 |                     |            |        | 5         |       | 22.98                        | 0.445                    | 1              |
|                 |                     |            | 3      | 0         | 0     | 22.55                        | 0.403                    | 1              |
|                 |                     |            |        | 1         |       | 22.50                        | 0.398                    | 1              |
|                 |                     |            |        | 3         |       | 22.42                        | 0.391                    | 1              |
|                 |                     | 6          | 0      | 1         | 22.03 | 0.357                        | 1                        |                |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.17                        | 0.369                    | 1              |
|                 |                     |            |        | 2         |       | 22.15                        | 0.367                    | 1              |
|                 |                     |            |        | 5         |       | 22.14                        | 0.366                    | 1              |
| 3               |                     |            | 0      | 1         | 21.63 | 0.326                        | 1                        |                |
|                 |                     |            | 1      |           | 21.57 | 0.321                        | 1                        |                |
|                 | 3                   |            | 21.49  |           | 0.316 | 1                            |                          |                |
| 6               | 0                   | 2          | 21.30  | 0.302     | 1     |                              |                          |                |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 4 / 1.4MHz | 20393 1754.3 MHz    | QPSK       | 1      | 0         | 0     | 23.00                        | 0.447                    | 1              |   |
|                 |                     |            |        | 2         |       | 22.95                        | 0.442                    | 1              |   |
|                 |                     |            |        | 5         |       | 22.96                        | 0.443                    | 1              |   |
|                 |                     |            | 3      | 0         | 0     | 22.41                        | 0.390                    | 1              |   |
|                 |                     |            |        | 1         |       | 22.30                        | 0.380                    | 1              |   |
|                 |                     |            |        | 3         |       | 22.25                        | 0.376                    | 1              |   |
|                 |                     |            | 6      | 0         | 1     | 21.82                        | 0.340                    | 1              |   |
|                 |                     |            | 16-QAM | 1         | 0     | 1                            | 22.10                    | 0.363          | 1 |
|                 |                     |            |        |           | 2     |                              | 22.07                    | 0.361          | 1 |
|                 |                     | 5          |        |           | 22.06 |                              | 0.360                    | 1              |   |
|                 |                     | 3          |        | 0         | 1     | 21.65                        | 0.327                    | 1              |   |
|                 |                     |            |        | 1         |       | 21.51                        | 0.317                    | 1              |   |
|                 |                     |            |        | 3         |       | 21.39                        | 0.308                    | 1              |   |
|                 |                     | 6          | 0      | 2         | 20.84 | 0.272                        | 1                        |                |   |



|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 4 / 3MHz | 19965 1711.5 MHz    | QPSK       | 1      | 0         | 0     | 22.99                        | 0.446                    | 1              |
|               |                     |            |        | 7         |       | 22.94                        | 0.441                    | 1              |
|               |                     |            |        | 14        |       | 22.88                        | 0.435                    | 1              |
|               |                     |            | 7      | 0         | 1     | 22.41                        | 0.390                    | 1              |
|               |                     |            |        | 4         |       | 22.35                        | 0.385                    | 1              |
|               |                     |            |        | 8         |       | 22.28                        | 0.378                    | 1              |
|               |                     | 15         | 0      | 1         | 22.00 | 0.355                        | 1                        |                |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.04                        | 0.358                    | 1              |
|               |                     |            |        | 7         |       | 22.01                        | 0.356                    | 1              |
|               |                     |            |        | 14        |       | 21.96                        | 0.352                    | 1              |
|               |                     |            | 7      | 0         | 2     | 21.45                        | 0.313                    | 1              |
|               |                     |            |        | 4         |       | 21.39                        | 0.308                    | 1              |
|               | 8                   |            |        | 21.30     |       | 0.302                        | 1                        |                |
|               | 15                  | 0          | 2      | 21.01     | 0.282 | 1                            |                          |                |
|               | 20175 1732.5 MHz    | QPSK       | 1      | 0         | 0     | 23.05                        | 0.452                    | 1              |
|               |                     |            |        | 7         |       | 23.02                        | 0.449                    | 1              |
|               |                     |            |        | 14        |       | 23.01                        | 0.448                    | 1              |
|               |                     |            | 7      | 0         | 1     | 22.52                        | 0.400                    | 1              |
|               |                     |            |        | 4         |       | 22.45                        | 0.394                    | 1              |
|               |                     |            |        | 8         |       | 22.36                        | 0.385                    | 1              |
|               |                     | 15         | 0      | 1         | 22.00 | 0.355                        | 1                        |                |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.04                        | 0.358                    | 1              |
|               |                     |            |        | 7         |       | 21.98                        | 0.353                    | 1              |
|               |                     |            |        | 14        |       | 21.90                        | 0.347                    | 1              |
| 7             |                     |            | 0      | 2         | 22.62 | 0.409                        | 1                        |                |
|               |                     |            | 4      |           | 22.50 | 0.398                        | 1                        |                |
|               | 8                   |            | 22.46  |           | 0.394 | 1                            |                          |                |
| 15            | 0                   | 2          | 21.04  | 0.284     | 1     |                              |                          |                |

| Band          | Channel Freq. (MHz)    | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|---------------|------------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 4 / 3MHz | 20385<br>1753.5<br>MHz | QPSK       | 1      | 0         | 0     | 22.90                        | 0.437                    | 1              |   |
|               |                        |            |        | 7         |       | 22.82                        | 0.429                    | 1              |   |
|               |                        |            |        | 14        |       | 22.75                        | 0.422                    | 1              |   |
|               |                        |            | 7      | 0         | 1     | 22.30                        | 0.380                    | 1              |   |
|               |                        |            |        | 4         |       | 22.25                        | 0.376                    | 1              |   |
|               |                        |            |        | 8         |       | 22.19                        | 0.371                    | 1              |   |
|               |                        |            | 15     | 0         | 1     | 22.15                        | 0.367                    | 1              |   |
|               |                        |            | 16-QAM | 1         | 0     | 1                            | 22.13                    | 0.366          | 1 |
|               |                        |            |        |           | 7     |                              | 22.10                    | 0.363          | 1 |
|               |                        | 14         |        |           | 22.09 |                              | 0.362                    | 1              |   |
|               |                        | 7          |        | 0         | 2     | 21.60                        | 0.324                    | 1              |   |
|               |                        |            |        | 4         |       | 21.52                        | 0.318                    | 1              |   |
|               |                        |            |        | 8         |       | 21.44                        | 0.312                    | 1              |   |
|               |                        | 15         | 0      | 2         | 21.28 | 0.301                        | 1                        |                |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 4 / 5MHz | 19975<br>1712.5 MHz | QPSK       | 1      | 0         | 0     | 22.98                        | 0.445                    | 1              |
|               |                     |            |        | 12        |       | 22.96                        | 0.443                    | 1              |
|               |                     |            |        | 24        |       | 22.95                        | 0.442                    | 1              |
|               |                     |            | 12     | 1         | 0     | 22.35                        | 0.385                    | 1              |
|               |                     |            |        |           | 6     | 22.30                        | 0.380                    | 1              |
|               |                     |            |        |           | 13    | 22.18                        | 0.370                    | 1              |
|               |                     | 25         | 0      | 21.97     | 0.352 | 1                            |                          |                |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.20                        | 0.372                    | 1              |
|               |                     |            |        |           | 12    | 22.14                        | 0.366                    | 1              |
|               |                     |            |        |           | 24    | 22.08                        | 0.361                    | 1              |
|               |                     |            | 12     | 2         | 0     | 21.56                        | 0.321                    | 1              |
|               |                     |            |        |           | 6     | 21.45                        | 0.313                    | 1              |
|               | 13                  |            |        |           | 21.40 | 0.309                        | 1                        |                |
|               | 25                  | 0          | 21.00  | 0.282     | 1     |                              |                          |                |
|               | 20175<br>1732.5 MHz | QPSK       | 1      | 0         | 0     | 23.11                        | 0.458                    | 1              |
|               |                     |            |        | 12        |       | 23.05                        | 0.452                    | 1              |
|               |                     |            |        | 24        |       | 22.98                        | 0.445                    | 1              |
|               |                     |            | 12     | 1         | 0     | 22.58                        | 0.406                    | 1              |
|               |                     |            |        |           | 6     | 22.45                        | 0.394                    | 1              |
|               |                     |            |        |           | 13    | 22.38                        | 0.387                    | 1              |
|               |                     | 25         | 0      | 22.10     | 0.363 | 1                            |                          |                |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.05                        | 0.359                    | 1              |
|               |                     |            |        |           | 12    | 22.02                        | 0.356                    | 1              |
|               |                     |            |        |           | 24    | 22.01                        | 0.356                    | 1              |
| 12            |                     |            | 2      | 0         | 21.49 | 0.316                        | 1                        |                |
|               |                     |            |        | 6         | 21.41 | 0.310                        | 1                        |                |
|               | 13                  |            |        | 21.32     | 0.303 | 1                            |                          |                |
| 25            | 0                   | 20.97      | 0.280  | 1         |       |                              |                          |                |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 4 / 5MHz | 20375<br>1752.5 MHz | QPSK       | 1      | 0         | 0     | 23.00                        | 0.447                    | 1              |   |
|               |                     |            |        | 12        |       | 22.98                        | 0.445                    | 1              |   |
|               |                     |            |        | 24        |       | 22.95                        | 0.442                    | 1              |   |
|               |                     |            | 12     | 0         | 1     | 22.49                        | 0.397                    | 1              |   |
|               |                     |            |        | 6         |       | 22.35                        | 0.385                    | 1              |   |
|               |                     |            |        | 13        |       | 22.22                        | 0.373                    | 1              |   |
|               |                     |            | 25     | 0         |       | 22.03                        | 0.357                    | 1              |   |
|               |                     |            | 16-QAM | 1         | 1     | 0                            | 22.05                    | 0.359          | 1 |
|               |                     |            |        |           |       | 12                           | 22.02                    | 0.356          | 1 |
|               |                     | 24         |        |           |       | 21.96                        | 0.352                    | 1              |   |
|               |                     | 12         |        | 2         | 0     | 21.49                        | 0.316                    | 1              |   |
|               |                     |            |        |           | 6     | 21.41                        | 0.310                    | 1              |   |
|               |                     |            |        |           | 13    | 21.28                        | 0.301                    | 1              |   |
|               |                     | 25         | 0      |           | 21.05 | 0.285                        | 1                        |                |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 4 / 10MHz | 20000 1715 MHz      | QPSK       | 1      | 0         | 0   | 22.98                        | 0.445                    | 1              |
|                |                     |            |        | 24        |     | 22.95                        | 0.442                    | 1              |
|                |                     |            |        | 49        |     | 22.94                        | 0.441                    | 1              |
|                |                     |            | 25     | 0         | 1   | 22.41                        | 0.390                    | 1              |
|                |                     |            |        | 12        |     | 22.35                        | 0.385                    | 1              |
|                |                     |            |        | 25        |     | 22.30                        | 0.380                    | 1              |
|                |                     | 16-QAM     | 1      | 0         | 1   | 22.19                        | 0.371                    | 1              |
|                |                     |            |        | 24        |     | 22.12                        | 0.365                    | 1              |
|                |                     |            |        | 49        |     | 22.06                        | 0.360                    | 1              |
|                |                     |            | 27     | 0         | 2   | 21.67                        | 0.329                    | 1              |
|                |                     |            |        | 12        |     | 21.61                        | 0.324                    | 1              |
|                |                     |            |        | 23        |     | 21.53                        | 0.318                    | 1              |
|                | 20175 1732.5 MHz    | QPSK       | 1      | 0         | 0   | 23.06                        | 0.453                    | 1              |
|                |                     |            |        | 24        |     | 22.95                        | 0.442                    | 1              |
|                |                     |            |        | 49        |     | 22.91                        | 0.438                    | 1              |
|                |                     |            | 25     | 0         | 1   | 22.48                        | 0.396                    | 1              |
|                |                     |            |        | 12        |     | 22.40                        | 0.389                    | 1              |
|                |                     |            |        | 25        |     | 22.28                        | 0.378                    | 1              |
|                |                     | 16-QAM     | 1      | 0         | 1   | 22.14                        | 0.366                    | 1              |
|                |                     |            |        | 24        |     | 22.08                        | 0.361                    | 1              |
|                |                     |            |        | 49        |     | 22.01                        | 0.356                    | 1              |
|                |                     |            | 27     | 0         | 2   | 21.56                        | 0.321                    | 1              |
|                |                     |            |        | 12        |     | 21.47                        | 0.314                    | 1              |
|                |                     |            |        | 23        |     | 21.33                        | 0.304                    | 1              |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 4 / 10MHz | 20350 1750 MHz      | QPSK       | 1      | 0         | 0     | 23.03                        | 0.450                    | 1              |   |
|                |                     |            |        | 24        |       | 22.95                        | 0.442                    | 1              |   |
|                |                     |            |        | 49        |       | 22.80                        | 0.427                    | 1              |   |
|                |                     |            | 25     | 0         | 1     | 22.51                        | 0.399                    | 1              |   |
|                |                     |            |        | 12        |       | 22.43                        | 0.392                    | 1              |   |
|                |                     |            |        | 25        |       | 22.30                        | 0.380                    | 1              |   |
|                |                     |            | 50     | 0         | 22.08 | 0.361                        | 1                        |                |   |
|                |                     |            | 16-QAM | 1         | 0     | 1                            | 22.18                    | 0.370          | 1 |
|                |                     |            |        |           | 24    |                              | 22.10                    | 0.363          | 1 |
|                |                     | 49         |        |           | 22.03 |                              | 0.357                    | 1              |   |
|                |                     | 27         |        | 0         | 2     | 21.61                        | 0.324                    | 1              |   |
|                |                     |            |        | 12        |       | 21.52                        | 0.318                    | 1              |   |
|                |                     |            |        | 23        |       | 21.38                        | 0.308                    | 1              |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 4 / 15MHz | 20025<br>1717.5 MHz | QPSK       | 1      | 0         | 0     | 23.08                        | 0.455                    | 1              |
|                |                     |            |        | 37        |       | 22.98                        | 0.445                    | 1              |
|                |                     |            |        | 74        |       | 22.93                        | 0.440                    | 1              |
|                |                     |            | 37     | 0         | 1     | 22.46                        | 0.394                    | 1              |
|                |                     |            |        | 19        |       | 22.40                        | 0.389                    | 1              |
|                |                     |            |        | 38        |       | 22.28                        | 0.378                    | 1              |
|                |                     | 75         | 0      | 22.09     | 0.362 | 1                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 21.93                        | 0.349                    | 1              |
|                |                     |            |        | 37        |       | 21.88                        | 0.345                    | 1              |
|                |                     |            |        | 74        |       | 21.85                        | 0.343                    | 1              |
|                |                     |            | 27     | 0         | 2     | 21.31                        | 0.303                    | 1              |
|                |                     |            |        | 24        |       | 21.25                        | 0.299                    | 1              |
|                | 48                  |            |        | 21.24     |       | 0.298                        | 1                        |                |
|                | 20175<br>1732.5 MHz | QPSK       | 1      | 0         | 0     | 23.13                        | 0.460                    | 1              |
|                |                     |            |        | 37        |       | 23.04                        | 0.451                    | 1              |
|                |                     |            |        | 74        |       | 22.98                        | 0.445                    | 1              |
|                |                     |            | 37     | 0         | 1     | 22.49                        | 0.397                    | 1              |
|                |                     |            |        | 19        |       | 22.42                        | 0.391                    | 1              |
|                |                     |            |        | 38        |       | 22.34                        | 0.384                    | 1              |
|                |                     | 75         | 0      | 22.16     | 0.368 | 1                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.13                        | 0.366                    | 1              |
|                |                     |            |        | 37        |       | 22.10                        | 0.363                    | 1              |
|                |                     |            |        | 74        |       | 22.07                        | 0.361                    | 1              |
|                |                     |            | 27     | 0         | 2     | 21.42                        | 0.310                    | 1              |
| 24             |                     |            |        | 21.35     |       | 0.305                        | 1                        |                |
| 48             | 21.24               |            |        | 0.298     |       | 1                            |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |       |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|-------|---|
| Band 4 / 15MHz | 20325<br>1747.5 MHz | QPSK       | 1      | 0         | 0   | 23.07                        | 0.454                    | 1              |       |   |
|                |                     |            |        | 37        |     | 23.05                        |                          |                |       |   |
|                |                     |            |        | 74        |     | 23.01                        |                          |                |       |   |
|                |                     |            | 37     | 0         | 1   | 22.41                        | 0.390                    | 1              |       |   |
|                |                     |            |        | 19        |     | 22.32                        |                          |                |       |   |
|                |                     |            |        | 38        |     | 22.29                        |                          |                |       |   |
|                |                     |            | 75     | 0         |     | 21.92                        | 0.348                    | 1              |       |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 1                        | 22.29          | 0.379 | 1 |
|                |                     |            |        |           |     | 37                           |                          | 22.27          |       |   |
|                |                     | 74         |        |           |     | 22.22                        |                          |                |       |   |
|                |                     | 27         |        | 2         | 0   | 2                            | 21.69                    | 0.330          | 1     |   |
|                |                     |            |        |           | 24  |                              | 21.60                    |                |       |   |
|                |                     |            |        |           | 48  |                              | 21.53                    |                |       |   |



|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 4 / 20MHz | 20050 1720 MHz      | QPSK       | 1      | 0         | 0     | 23.17                        | 0.465                    | 1              |
|                |                     |            |        | 49        |       | 22.95                        | 0.442                    | 1              |
|                |                     |            |        | 99        |       | 22.87                        | 0.434                    | 1              |
|                |                     |            | 50     | 0         | 1     | 22.55                        | 0.403                    | 1              |
|                |                     |            |        | 25        |       | 22.48                        | 0.396                    | 1              |
|                |                     |            |        | 50        |       | 22.4                         | 0.389                    | 1              |
|                |                     | 100        | 0      | 22.06     | 0.360 | 1                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.28                        | 0.378                    | 1              |
|                |                     |            |        | 49        |       | 22.09                        | 0.362                    | 1              |
|                |                     |            |        | 99        |       | 21.92                        | 0.348                    | 1              |
|                |                     |            | 27     | 0         | 2     | 21.66                        | 0.328                    | 1              |
|                |                     |            |        | 36        |       | 21.60                        | 0.324                    | 1              |
|                | 73                  |            |        | 21.48     |       | 0.315                        | 1                        |                |
|                | 20175 1732.5 MHz    | QPSK       | 1      | 0         | 0     | 23.20                        | 0.468                    | 1              |
|                |                     |            |        | 49        |       | 23.12                        | 0.459                    | 1              |
|                |                     |            |        | 99        |       | 23.05                        | 0.452                    | 1              |
|                |                     |            | 50     | 0         | 1     | 22.58                        | 0.406                    | 1              |
|                |                     |            |        | 25        |       | 22.44                        | 0.393                    | 1              |
|                |                     |            |        | 50        |       | 22.32                        | 0.382                    | 1              |
|                |                     | 100        | 0      | 22.04     | 0.358 | 1                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.24                        | 0.375                    | 1              |
|                |                     |            |        | 49        |       | 22.22                        | 0.373                    | 1              |
|                |                     |            |        | 99        |       | 22.18                        | 0.370                    | 1              |
|                |                     |            | 27     | 0         | 2     | 21.53                        | 0.318                    | 1              |
| 36             |                     |            |        | 21.48     |       | 0.315                        | 1                        |                |
| 73             | 21.35               |            |        | 0.305     |       | 1                            |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 4 / 20MHz | 20300<br>1745 MHz   | QPSK       | 1      | 0         | 0     | 23.11                        | 0.458                    | 1              |   |
|                |                     |            |        | 49        |       | 23.05                        | 0.452                    | 1              |   |
|                |                     |            |        | 99        |       | 23.07                        | 0.454                    | 1              |   |
|                |                     |            | 50     | 0         | 1     | 22.54                        | 0.402                    | 1              |   |
|                |                     |            |        | 25        |       | 22.42                        | 0.391                    | 1              |   |
|                |                     |            |        | 50        |       | 22.35                        | 0.385                    | 1              |   |
|                |                     |            | 100    | 0         |       | 22.07                        | 0.361                    | 1              |   |
|                |                     |            | 16-QAM | 1         | 0     | 1                            | 22.20                    | 0.372          | 1 |
|                |                     |            |        |           | 49    |                              | 22.16                    | 0.368          | 1 |
|                |                     | 99         |        |           | 22.14 |                              | 0.366                    | 1              |   |
|                |                     | 27         |        | 0         | 2     | 21.68                        | 0.330                    | 1              |   |
|                |                     |            |        | 36        |       | 21.60                        | 0.324                    | 1              |   |
|                |                     |            |        | 73        |       | 21.55                        | 0.320                    | 1              |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 1.4MHz | 20407<br>824.7 MHz  | QPSK       | 1      | 0         | 0     | 23.32                        | 0.185                   | 7             |
|                 |                     |            |        | 2         |       | 23.26                        | 0.182                   | 7             |
|                 |                     |            |        | 5         |       | 23.12                        | 0.177                   | 7             |
|                 |                     |            | 3      | 0         | 0     | 22.62                        | 0.157                   | 7             |
|                 |                     |            |        | 1         |       | 22.55                        | 0.155                   | 7             |
|                 |                     |            |        | 3         |       | 22.39                        | 0.149                   | 7             |
|                 |                     | 6          | 0      | 1         | 22.14 | 0.141                        | 7                       |               |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.19                        | 0.143                   | 7             |
|                 |                     |            |        | 2         |       | 22.11                        | 0.140                   | 7             |
|                 |                     |            |        | 5         |       | 22.02                        | 0.137                   | 7             |
|                 |                     |            | 3      | 0         | 1     | 21.66                        | 0.126                   | 7             |
|                 |                     |            |        | 1         |       | 21.58                        | 0.124                   | 7             |
|                 | 3                   |            |        | 21.50     |       | 0.122                        | 7                       |               |
|                 | 6                   | 0          | 2      | 21.33     | 0.117 | 7                            |                         |               |
|                 | 20525<br>836.5 MHz  | QPSK       | 1      | 0         | 0     | 23.24                        | 0.182                   | 7             |
|                 |                     |            |        | 2         |       | 23.19                        | 0.179                   | 7             |
|                 |                     |            |        | 5         |       | 23.18                        | 0.179                   | 7             |
|                 |                     |            | 3      | 0         | 0     | 22.59                        | 0.156                   | 7             |
|                 |                     |            |        | 1         |       | 22.48                        | 0.152                   | 7             |
|                 |                     |            |        | 3         |       | 22.41                        | 0.150                   | 7             |
|                 |                     | 6          | 0      | 1         | 22.24 | 0.144                        | 7                       |               |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.30                        | 0.146                   | 7             |
|                 |                     |            |        | 2         |       | 22.27                        | 0.145                   | 7             |
|                 |                     |            |        | 5         |       | 22.25                        | 0.145                   | 7             |
| 3               |                     |            | 0      | 1         | 21.75 | 0.129                        | 7                       |               |
|                 |                     |            | 1      |           | 21.63 | 0.125                        | 7                       |               |
|                 | 3                   |            | 21.55  |           | 0.123 | 7                            |                         |               |
| 6               | 0                   | 2          | 21.22  | 0.114     | 7     |                              |                         |               |

| Band            | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|-----------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 1.4MHz | 20643 848.3 MHz     | QPSK       | 1      | 0         | 0     | 23.49                        | 0.192                   | 7             |
|                 |                     |            |        | 2         |       | 23.47                        |                         |               |
|                 |                     |            |        | 5         |       | 23.43                        |                         |               |
|                 |                     |            | 3      | 0         | 0     | 22.88                        | 0.167                   | 7             |
|                 |                     |            |        | 1         |       | 22.76                        |                         |               |
|                 |                     |            |        | 3         |       | 22.72                        |                         |               |
|                 |                     | 6          | 0      | 1         | 22.47 | 0.152                        | 7                       |               |
|                 |                     | 16-QAM     | 1      | 0         | 1     | 22.60                        | 0.157                   | 7             |
|                 |                     |            |        | 2         |       | 22.56                        |                         |               |
|                 |                     |            |        | 5         |       | 22.53                        |                         |               |
|                 |                     |            | 3      | 0         | 1     | 21.99                        | 0.136                   | 7             |
|                 |                     |            |        | 1         |       | 21.91                        |                         |               |
|                 |                     |            |        | 3         |       | 21.79                        |                         |               |
|                 |                     |            | 6      | 0         | 2     | 21.42                        | 0.119                   | 7             |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 3MHz | 20415<br>825.5 MHz  | QPSK       | 1      | 0         | 0     | 23.20                        | 0.180                   | 7             |
|               |                     |            |        | 7         |       | 23.17                        | 0.179                   | 7             |
|               |                     |            |        | 14        |       | 23.15                        | 0.178                   | 7             |
|               |                     |            | 7      | 0         | 1     | 22.68                        | 0.160                   | 7             |
|               |                     |            |        | 4         |       | 22.60                        | 0.157                   | 7             |
|               |                     |            |        | 8         |       | 22.51                        | 0.153                   | 7             |
|               |                     | 15         | 0      | 1         | 22.29 | 0.146                        | 7                       |               |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.29                        | 0.146                   | 7             |
|               |                     |            |        | 7         |       | 22.23                        | 0.144                   | 7             |
|               |                     |            |        | 14        |       | 22.12                        | 0.140                   | 7             |
|               |                     |            | 7      | 0         | 2     | 21.68                        | 0.127                   | 7             |
|               |                     |            |        | 4         |       | 21.61                        | 0.125                   | 7             |
|               | 8                   |            |        | 21.53     |       | 0.122                        | 7                       |               |
|               | 15                  | 0          | 2      | 21.27     | 0.115 | 7                            |                         |               |
|               | 20525<br>836.5 MHz  | QPSK       | 1      | 0         | 0     | 23.22                        | 0.181                   | 7             |
|               |                     |            |        | 7         |       | 23.18                        | 0.179                   | 7             |
|               |                     |            |        | 14        |       | 23.15                        | 0.178                   | 7             |
|               |                     |            | 7      | 0         | 1     | 22.75                        | 0.162                   | 7             |
|               |                     |            |        | 4         |       | 22.61                        | 0.157                   | 7             |
|               |                     |            |        | 8         |       | 22.49                        | 0.153                   | 7             |
|               |                     | 15         | 0      | 1         | 22.28 | 0.146                        | 7                       |               |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.26                        | 0.145                   | 7             |
|               |                     |            |        | 7         |       | 22.22                        | 0.144                   | 7             |
|               |                     |            |        | 14        |       | 22.20                        | 0.143                   | 7             |
| 7             |                     |            | 0      | 2         | 21.70 | 0.127                        | 7                       |               |
|               |                     |            | 4      |           | 21.62 | 0.125                        | 7                       |               |
|               | 8                   |            | 21.54  |           | 0.123 | 7                            |                         |               |
| 15            | 0                   | 2          | 21.30  | 0.116     | 7     |                              |                         |               |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 3MHz | 20635 847.5 MHz     | QPSK       | 1      | 0         | 0     | 23.31                        | 0.185                   | 7             |
|               |                     |            |        | 7         |       | 23.24                        | 0.182                   | 7             |
|               |                     |            |        | 14        |       | 23.17                        | 0.179                   | 7             |
|               |                     |            | 7      | 0         | 1     | 22.78                        | 0.163                   | 7             |
|               |                     |            |        | 4         |       | 22.66                        | 0.159                   | 7             |
|               |                     |            |        | 8         |       | 22.48                        | 0.152                   | 7             |
|               |                     | 15         | 0      | 1         | 22.32 | 0.147                        | 7                       |               |
|               |                     | 16-QAM     | 1      | 0         | 1     | 22.08                        | 0.139                   | 7             |
|               |                     |            |        | 7         |       | 22.01                        | 0.137                   | 7             |
|               |                     |            |        | 14        |       | 21.95                        | 0.135                   | 7             |
|               |                     |            | 7      | 0         | 2     | 21.48                        | 0.121                   | 7             |
|               |                     |            |        | 4         |       | 21.40                        | 0.119                   | 7             |
|               |                     |            |        | 8         |       | 21.36                        | 0.118                   | 7             |
|               |                     | 15         | 0      | 2         | 21.24 | 0.115                        | 7                       |               |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 5MHz | 20425<br>826.5 MHz  | QPSK       | 1      | 0         | 0     | 23.36                        | 0.187                   | 7             |
|               |                     |            |        | 12        |       | 23.22                        | 0.181                   | 7             |
|               |                     |            |        | 24        |       | 23.11                        | 0.176                   | 7             |
|               |                     |            | 12     | 1         | 0     | 22.81                        | 0.164                   | 7             |
|               |                     |            |        |           | 6     | 22.68                        | 0.160                   | 7             |
|               |                     |            |        |           | 13    | 22.60                        | 0.157                   | 7             |
|               |                     | 25         | 0      | 22.31     | 0.147 | 7                            |                         |               |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.28                        | 0.146                   | 7             |
|               |                     |            |        |           | 12    | 22.19                        | 0.143                   | 7             |
|               |                     |            |        |           | 24    | 22.13                        | 0.141                   | 7             |
|               |                     |            | 12     | 2         | 0     | 21.66                        | 0.126                   | 7             |
|               |                     |            |        |           | 6     | 21.50                        | 0.122                   | 7             |
|               | 13                  |            |        |           | 21.46 | 0.121                        | 7                       |               |
|               | 25                  | 0          | 21.24  | 0.115     | 7     |                              |                         |               |
|               | 20525<br>836.5 MHz  | QPSK       | 1      | 0         | 0     | 23.28                        | 0.183                   | 7             |
|               |                     |            |        | 12        |       | 23.25                        | 0.182                   | 7             |
|               |                     |            |        | 24        |       | 23.23                        | 0.181                   | 7             |
|               |                     |            | 12     | 1         | 0     | 22.69                        | 0.160                   | 7             |
|               |                     |            |        |           | 6     | 22.60                        | 0.157                   | 7             |
|               |                     |            |        |           | 13    | 22.47                        | 0.152                   | 7             |
|               |                     | 25         | 0      | 22.29     | 0.146 | 7                            |                         |               |
|               |                     | 16-QAM     | 1      | 1         | 0     | 22.34                        | 0.148                   | 7             |
|               |                     |            |        |           | 12    | 22.32                        | 0.147                   | 7             |
|               |                     |            |        |           | 24    | 22.28                        | 0.146                   | 7             |
| 12            |                     |            | 2      | 0         | 21.82 | 0.131                        | 7                       |               |
|               |                     |            |        | 6         | 21.68 | 0.127                        | 7                       |               |
|               | 13                  |            |        | 21.54     | 0.123 | 7                            |                         |               |
| 25            | 0                   | 21.37      | 0.118  | 7         |       |                              |                         |               |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |   |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|---|
| Band 5 / 5MHz | 20625 846.5 MHz     | QPSK       | 1      | 0         | 0     | 23.29                        | 0.184                   | 7             |   |
|               |                     |            |        | 12        |       | 23.24                        |                         |               |   |
|               |                     |            |        | 24        |       | 23.20                        |                         |               |   |
|               |                     |            | 12     | 0         | 1     | 22.75                        | 0.162                   | 7             |   |
|               |                     |            |        | 6         |       | 22.68                        |                         |               |   |
|               |                     |            |        | 13        |       | 22.60                        |                         |               |   |
|               |                     |            | 25     | 0         |       | 22.44                        | 0.151                   | 7             |   |
|               |                     |            | 16-QAM | 1         | 0     | 1                            | 22.58                   | 0.156         | 7 |
|               |                     |            |        |           | 12    |                              | 22.44                   |               |   |
|               |                     | 24         |        |           | 22.32 |                              |                         |               |   |
|               |                     | 12         |        | 0         | 2     | 21.94                        | 0.135                   | 7             |   |
|               |                     |            |        | 6         |       | 21.86                        |                         |               |   |
|               |                     |            |        | 13        |       | 21.77                        |                         |               |   |
|               |                     | 25         | 0      |           | 21.42 | 0.119                        | 7                       |               |   |



|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|-------------------------|---------------|
| Band 5 / 10MHz | 20450 829 MHz       | QPSK       | 1      | 0         | 0     | 23.30                        | 0.184                   | 7             |
|                |                     |            |        | 24        |       | 23.28                        | 0.183                   | 7             |
|                |                     |            |        | 49        |       | 23.24                        | 0.182                   | 7             |
|                |                     |            | 25     | 0         | 1     | 22.78                        | 0.163                   | 7             |
|                |                     |            |        | 12        |       | 22.70                        | 0.160                   | 7             |
|                |                     |            |        | 25        |       | 22.58                        | 0.156                   | 7             |
|                |                     | 50         | 0      | 22.30     | 0.146 | 7                            |                         |               |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.20                        | 0.143                   | 7             |
|                |                     |            |        | 24        |       | 22.17                        | 0.142                   | 7             |
|                |                     |            |        | 49        |       | 22.16                        | 0.142                   | 7             |
|                |                     |            | 27     | 0         | 2     | 21.82                        | 0.131                   | 7             |
|                |                     |            |        | 12        |       | 21.71                        | 0.128                   | 7             |
|                | 23                  |            |        | 21.66     |       | 0.126                        | 7                       |               |
|                | 20525 836.5 MHz     | QPSK       | 1      | 0         | 0     | 23.23                        | 0.181                   | 7             |
|                |                     |            |        | 24        |       | 23.16                        | 0.178                   | 7             |
|                |                     |            |        | 49        |       | 23.12                        | 0.177                   | 7             |
|                |                     |            | 25     | 0         | 1     | 22.72                        | 0.161                   | 7             |
|                |                     |            |        | 12        |       | 22.66                        | 0.159                   | 7             |
|                |                     |            |        | 25        |       | 22.54                        | 0.155                   | 7             |
|                |                     | 50         | 0      | 22.22     | 0.144 | 7                            |                         |               |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.16                        | 0.142                   | 7             |
|                |                     |            |        | 24        |       | 22.11                        | 0.140                   | 7             |
|                |                     |            |        | 49        |       | 22.08                        | 0.139                   | 7             |
|                |                     |            | 27     | 0         | 2     | 21.49                        | 0.121                   | 7             |
| 12             |                     |            |        | 21.42     |       | 0.119                        | 7                       |               |
| 23             | 21.33               |            |        | 0.117     |       | 7                            |                         |               |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |       |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|-------|---|
| Band 5 / 10MHz | 20600 844 MHz       | QPSK       | 1      | 0         | 0   | 23.21                        | 0.180                   | 7             |       |   |
|                |                     |            |        | 24        |     | 23.15                        |                         |               |       |   |
|                |                     |            |        | 49        |     | 23.12                        |                         |               |       |   |
|                |                     |            | 25     | 0         | 1   | 22.66                        | 0.159                   | 7             |       |   |
|                |                     |            |        | 12        |     | 22.51                        |                         |               |       |   |
|                |                     |            |        | 25        |     | 22.42                        |                         |               |       |   |
|                |                     |            | 50     | 0         |     | 22.23                        | 0.144                   | 7             |       |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 1                       | 22.13         | 0.141 | 7 |
|                |                     |            |        |           |     | 24                           |                         | 22.08         |       |   |
|                |                     | 49         |        |           |     | 22.04                        |                         |               |       |   |
|                |                     | 27         |        | 2         | 0   | 2                            | 21.66                   | 0.126         | 7     |   |
|                |                     |            |        |           | 12  |                              | 21.53                   |               |       |   |
|                |                     |            |        |           | 23  |                              | 21.42                   |               |       |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR    | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |       |       |   |
|---------------|---------------------|------------|--------|-----------|--------|------------------------------|--------------------------|----------------|-------|-------|---|
| Band 7 / 5MHz | 20775<br>2502.5 MHz | QPSK       | 1      | 0         | 0      | 22.77                        | 0.378                    | 2              |       |       |   |
|               |                     |            |        | 12        |        | 22.73                        | 0.374                    | 2              |       |       |   |
|               |                     |            |        | 24        |        | 22.64                        | 0.366                    | 2              |       |       |   |
|               |                     |            | 12     | 0         | 1      | 21.88                        | 0.308                    | 2              |       |       |   |
|               |                     |            |        | 6         |        | 21.82                        | 0.303                    | 2              |       |       |   |
|               |                     |            |        | 13        |        | 21.69                        | 0.294                    | 2              |       |       |   |
|               |                     | 25         | 0      | 1         | 21.59  | 0.288                        | 2                        |                |       |       |   |
|               |                     |            | 0      |           | 1      | 21.53                        | 0.284                    | 2              |       |       |   |
|               |                     |            | 12     |           |        | 21.50                        | 0.282                    | 2              |       |       |   |
|               |                     | 16-QAM     | 1      | 1         | 24     | 21.47                        | 0.280                    | 2              |       |       |   |
|               |                     |            |        |           | 12     | 2                            | 0                        | 20.96          | 0.249 | 2     |   |
|               |                     |            |        |           |        |                              | 6                        | 20.92          | 0.247 | 2     |   |
|               | 13                  |            | 20.88  | 0.244     |        |                              | 2                        |                |       |       |   |
|               | 25                  |            | 2      | 0         | 20.78  | 0.239                        | 2                        |                |       |       |   |
|               |                     |            |        | QPSK      | 1      | 0                            | 23.44                    | 0.441          | 2     |       |   |
|               |                     | 12         |        |           |        |                              | 23.31                    | 0.428          | 2     |       |   |
|               | 24                  | 23.19      | 0.416  |           |        |                              | 2                        |                |       |       |   |
|               | 21100<br>2535 MHz   | QPSK       | 12     | 0         | 1      | 22.84                        | 0.384                    | 2              |       |       |   |
|               |                     |            |        | 6         |        | 22.77                        | 0.378                    | 2              |       |       |   |
|               |                     |            |        | 13        |        | 22.65                        | 0.367                    | 2              |       |       |   |
|               |                     |            | 25     | 1         | 0      | 22.33                        | 0.341                    | 2              |       |       |   |
|               |                     |            |        |           | 16-QAM | 1                            | 1                        | 0              | 22.17 | 0.329 | 2 |
|               |                     |            |        |           |        |                              |                          | 12             | 22.13 | 0.326 | 2 |
|               |                     | 24         | 22.08  | 0.322     |        |                              |                          | 2              |       |       |   |
| 12            |                     | 2          | 0      | 21.45     | 0.279  | 2                            |                          |                |       |       |   |
|               |                     |            |        | 6         | 21.39  | 0.275                        | 2                        |                |       |       |   |
|               |                     |            |        | 13        | 21.33  | 0.271                        | 2                        |                |       |       |   |
|               |                     | 25         | 2      | 0         | 21.25  | 0.266                        | 2                        |                |       |       |   |

| Band          | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|---------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 7 / 5MHz | 21425 2567.5 MHz    | QPSK       | 1      | 0         | 0     | 23.04                        | 0.402                    | 2              |   |
|               |                     |            |        | 12        |       | 22.98                        | 0.396                    | 2              |   |
|               |                     |            |        | 24        |       | 22.96                        | 0.394                    | 2              |   |
|               |                     |            | 12     | 0         | 1     | 22.36                        | 0.344                    | 2              |   |
|               |                     |            |        | 6         |       | 22.30                        | 0.339                    | 2              |   |
|               |                     |            |        | 13        |       | 22.19                        | 0.330                    | 2              |   |
|               |                     |            | 25     | 0         | 22.06 | 0.321                        | 2                        |                |   |
|               |                     |            | 16-QAM | 1         | 0     | 1                            | 22.14                    | 0.327          | 2 |
|               |                     |            |        |           | 12    |                              | 22.03                    | 0.318          | 2 |
|               |                     | 24         |        |           | 21.89 |                              | 0.308                    | 2              |   |
|               |                     | 12         |        | 0         | 2     | 21.38                        | 0.274                    | 2              |   |
|               |                     |            |        | 6         |       | 21.24                        | 0.265                    | 2              |   |
|               |                     |            |        | 13        |       | 21.22                        | 0.264                    | 2              |   |
|               |                     | 25         | 0      | 21.04     | 0.254 | 2                            |                          |                |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|
| Band 7 / 10MHz | 20800<br>2505 MHz   | QPSK       | 1      | 0         | 0     | 22.83                        | 0.383                    | 2              |
|                |                     |            |        | 24        |       | 22.80                        | 0.380                    | 2              |
|                |                     |            |        | 49        |       | 22.78                        | 0.378                    | 2              |
|                |                     |            | 25     | 0         | 1     | 22.38                        | 0.345                    | 2              |
|                |                     |            |        | 12        |       | 22.30                        | 0.339                    | 2              |
|                |                     |            |        | 25        |       | 22.18                        | 0.330                    | 2              |
|                |                     | 50         | 0      | 21.87     | 0.307 | 2                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 21.85                        | 0.305                    | 2              |
|                |                     |            |        | 24        |       | 21.80                        | 0.302                    | 2              |
|                |                     |            |        | 49        |       | 21.76                        | 0.299                    | 2              |
|                |                     |            | 27     | 0         | 2     | 21.44                        | 0.278                    | 2              |
|                |                     |            |        | 12        |       | 21.39                        | 0.275                    | 2              |
|                | 23                  |            |        | 21.33     |       | 0.271                        | 2                        |                |
|                | 21100<br>2535 MHz   | QPSK       | 1      | 0         | 0     | 23.27                        | 0.424                    | 2              |
|                |                     |            |        | 24        |       | 23.16                        | 0.413                    | 2              |
|                |                     |            |        | 49        |       | 23.04                        | 0.402                    | 2              |
|                |                     |            | 25     | 0         | 1     | 22.55                        | 0.359                    | 2              |
|                |                     |            |        | 12        |       | 22.48                        | 0.353                    | 2              |
|                |                     |            |        | 25        |       | 22.42                        | 0.348                    | 2              |
|                |                     | 50         | 0      | 22.36     | 0.344 | 2                            |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1     | 22.45                        | 0.351                    | 2              |
|                |                     |            |        | 24        |       | 22.28                        | 0.337                    | 2              |
|                |                     |            |        | 49        |       | 22.14                        | 0.327                    | 2              |
|                |                     |            | 27     | 0         | 2     | 21.69                        | 0.294                    | 2              |
| 12             |                     |            |        | 21.58     |       | 0.287                        | 2                        |                |
| 23             | 21.46               |            |        | 0.279     |       | 2                            |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |       |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|-------|---|
| Band 7 / 10MHz | 21400 2565 MHz      | QPSK       | 1      | 0         | 0   | 23.23                        | 0.420                    | 2              |       |   |
|                |                     |            |        | 24        |     | 23.15                        | 0.412                    | 2              |       |   |
|                |                     |            |        | 49        |     | 23.06                        | 0.404                    | 2              |       |   |
|                |                     |            | 25     | 0         | 1   | 22.66                        | 0.368                    | 2              |       |   |
|                |                     |            |        | 12        |     | 22.59                        | 0.362                    | 2              |       |   |
|                |                     |            |        | 25        |     | 22.47                        | 0.352                    | 2              |       |   |
|                |                     |            | 50     | 0         |     | 22.20                        | 0.331                    | 2              |       |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 1                        | 22.21          | 0.332 | 2 |
|                |                     |            |        |           |     | 24                           |                          | 22.07          | 0.321 | 2 |
|                |                     | 49         |        |           |     | 21.99                        |                          | 0.316          | 2     |   |
|                |                     | 27         |        | 2         | 0   | 2                            | 21.68                    | 0.294          | 2     |   |
|                |                     |            |        |           | 12  |                              | 21.55                    | 0.285          | 2     |   |
|                |                     |            |        |           | 23  |                              | 21.42                    | 0.277          | 2     |   |

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 7 / 15MHz | 20825<br>2507.5 MHz | QPSK       | 1      | 0         | 0     | 22.99                        | 0.397                    | 2              |   |
|                |                     |            |        | 37        |       | 22.95                        |                          |                |   |
|                |                     |            |        | 74        |       | 22.90                        |                          |                |   |
|                |                     |            | 37     | 0         | 1     | 22.40                        | 0.347                    | 2              |   |
|                |                     |            |        | 19        |       | 22.36                        |                          |                |   |
|                |                     |            |        | 38        |       | 22.24                        |                          |                |   |
|                |                     | 75         | 0      | 1         | 21.86 | 0.306                        | 2                        |                |   |
|                |                     |            | 37     |           | 22.22 |                              |                          |                |   |
|                |                     |            | 74     |           | 21.99 |                              |                          |                |   |
|                |                     | 16-QAM     | 1      | 1         | 0     | 1                            | 22.10                    | 0.324          | 2 |
|                |                     |            |        |           | 74    |                              | 21.99                    |                |   |
|                |                     |            |        |           | 0     |                              | 21.73                    |                |   |
|                | 27                  |            | 2      | 24        | 2     | 21.66                        | 0.292                    | 2              |   |
|                |                     |            |        | 48        |       | 21.58                        |                          |                |   |
|                |                     |            |        | 0         |       | 21.73                        |                          |                |   |
|                | 21100<br>2535 MHz   | QPSK       | 1      | 0         | 0     | 23.42                        | 0.439                    | 2              |   |
|                |                     |            |        | 37        |       | 23.34                        |                          |                |   |
|                |                     |            |        | 74        |       | 23.26                        |                          |                |   |
|                |                     |            | 37     | 0         | 1     | 22.86                        | 0.385                    | 2              |   |
|                |                     |            |        | 19        |       | 22.74                        |                          |                |   |
|                |                     |            |        | 38        |       | 22.70                        |                          |                |   |
|                |                     | 75         | 0      | 1         | 22.51 | 0.356                        | 2                        |                |   |
|                |                     |            | 37     |           | 22.11 |                              |                          |                |   |
|                |                     |            | 74     |           | 21.92 |                              |                          |                |   |
| 16-QAM         |                     | 1          | 1      | 0         | 1     | 22.03                        | 0.318                    | 2              |   |
|                |                     |            |        | 74        |       | 21.92                        |                          |                |   |
|                |                     |            |        | 0         |       | 21.44                        |                          |                |   |
|                | 27                  | 2          | 24     | 2         | 21.39 | 0.275                        | 2                        |                |   |
|                |                     |            | 48     |           | 21.25 |                              |                          |                |   |
|                |                     |            | 0      |           | 21.44 |                              |                          |                |   |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR   | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-------|------------------------------|--------------------------|----------------|---|
| Band 7 / 15MHz | 21375 2562.5 MHz    | QPSK       | 1      | 0         | 0     | 23.40                        | 0.437                    | 2              |   |
|                |                     |            |        | 37        |       | 23.34                        | 0.431                    | 2              |   |
|                |                     |            |        | 74        |       | 23.17                        | 0.414                    | 2              |   |
|                |                     |            | 37     | 0         | 1     | 22.88                        | 0.387                    | 2              |   |
|                |                     |            |        | 19        |       | 22.71                        | 0.372                    | 2              |   |
|                |                     |            |        | 38        |       | 22.63                        | 0.366                    | 2              |   |
|                |                     |            | 75     | 0         | 22.43 | 0.349                        | 2                        |                |   |
|                |                     |            | 16-QAM | 1         | 1     | 0                            | 22.40                    | 0.347          | 2 |
|                |                     |            |        |           |       | 37                           | 22.28                    | 0.337          | 2 |
|                |                     | 74         |        |           |       | 22.01                        | 0.317                    | 2              |   |
|                |                     | 27         |        | 2         | 0     | 21.65                        | 0.292                    | 2              |   |
|                |                     |            |        |           | 24    | 21.59                        | 0.288                    | 2              |   |
|                |                     |            |        |           | 48    | 21.52                        | 0.283                    | 2              |   |



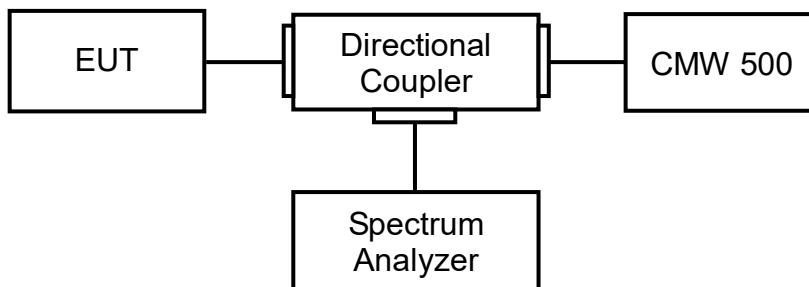
|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | RF Output Power    |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/25         | Test Site | SR10-H |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 7 / 20MHz | 20850 2510 MHz      | QPSK       | 1      | 0         | 0   | 23.18                        | 0.415                    | 2              |
|                |                     |            |        | 49        |     | 23.10                        |                          |                |
|                |                     |            |        | 99        |     | 22.98                        |                          |                |
|                |                     |            | 50     | 0         | 1   | 22.50                        |                          |                |
|                |                     |            |        | 25        |     | 22.33                        |                          |                |
|                |                     |            |        | 50        |     | 22.25                        |                          |                |
|                |                     | 100        | 0      | 22.09     |     |                              |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1   | 22.16                        |                          |                |
|                |                     |            |        | 49        |     | 22.05                        |                          |                |
|                |                     |            |        | 99        |     | 21.89                        |                          |                |
|                |                     |            | 27     | 0         | 2   | 21.49                        |                          |                |
|                |                     |            |        | 36        |     | 21.42                        |                          |                |
|                | 73                  |            |        | 21.28     |     |                              |                          |                |
|                | 21100 2535 MHz      | QPSK       | 1      | 0         | 0   | 23.48                        | 0.445                    | 2              |
|                |                     |            |        | 49        |     | 23.40                        |                          |                |
|                |                     |            |        | 99        |     | 23.33                        |                          |                |
|                |                     |            | 50     | 0         | 1   | 22.88                        |                          |                |
|                |                     |            |        | 25        |     | 22.71                        |                          |                |
|                |                     |            |        | 50        |     | 22.60                        |                          |                |
|                |                     | 100        | 0      | 22.41     |     |                              |                          |                |
|                |                     | 16-QAM     | 1      | 0         | 1   | 22.50                        |                          |                |
|                |                     |            |        | 49        |     | 22.35                        |                          |                |
|                |                     |            |        | 99        |     | 22.26                        |                          |                |
|                |                     |            | 27     | 0         | 2   | 21.89                        |                          |                |
| 36             |                     |            |        | 21.83     |     |                              |                          |                |
| 73             | 21.74               |            |        |           |     |                              |                          |                |

| Band           | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |   |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 7 / 20MHz | 21350 2560 MHz      | QPSK       | 1      | 0         | 0   | 23.46                        | 0.443                    | 2              |   |
|                |                     |            |        | 49        |     | 23.29                        | 0.426                    | 2              |   |
|                |                     |            |        | 99        |     | 23.15                        | 0.412                    | 2              |   |
|                |                     |            | 50     | 0         | 1   | 22.84                        | 0.384                    | 2              |   |
|                |                     |            |        | 25        |     | 22.68                        | 0.370                    | 2              |   |
|                |                     |            |        | 50        |     | 22.53                        | 0.357                    | 2              |   |
|                |                     |            | 100    | 0         |     | 22.40                        | 0.347                    | 2              |   |
|                |                     |            | 16-QAM | 1         | 1   | 0                            | 22.51                    | 0.356          | 2 |
|                |                     |            |        |           |     | 49                           | 22.29                    | 0.338          | 2 |
|                |                     | 99         |        |           |     | 22.20                        | 0.331                    | 2              |   |
|                |                     | 27         |        | 2         | 0   | 21.89                        | 0.308                    | 2              |   |
|                |                     |            |        |           | 36  | 21.74                        | 0.298                    | 2              |   |
|                |                     |            |        |           | 73  | 21.63                        | 0.290                    | 2              |   |

#### 4. Occupied Bandwidth

##### 4.1. Test Setup



##### 4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

##### 4.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3  
ANSI C63.26: 2015 Sub-clause 5.4.3 & 5.4.4

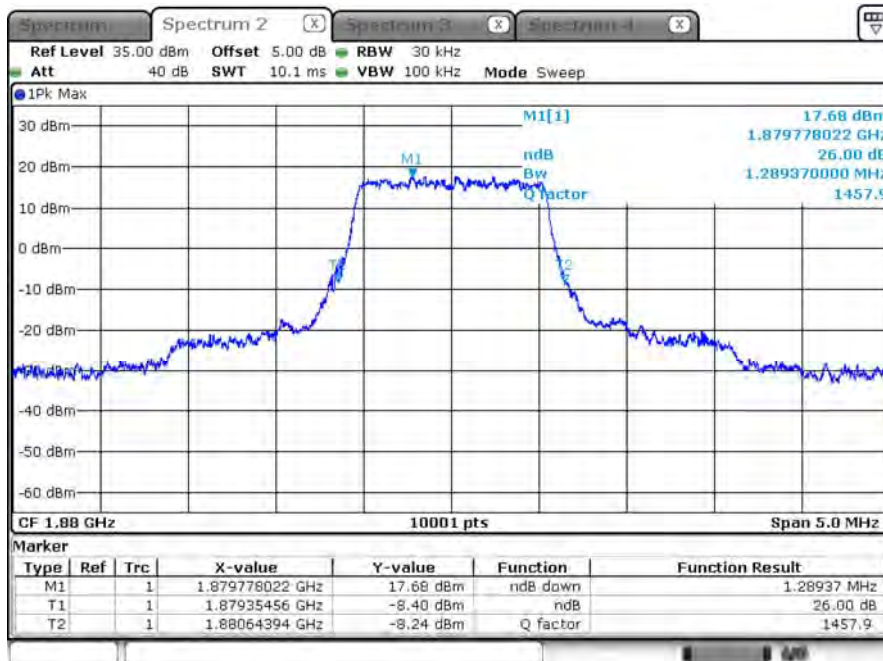
**4.4. Test Result**

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 1.4M_QPSK       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 1.289                        | 1.098                      | N/A         |

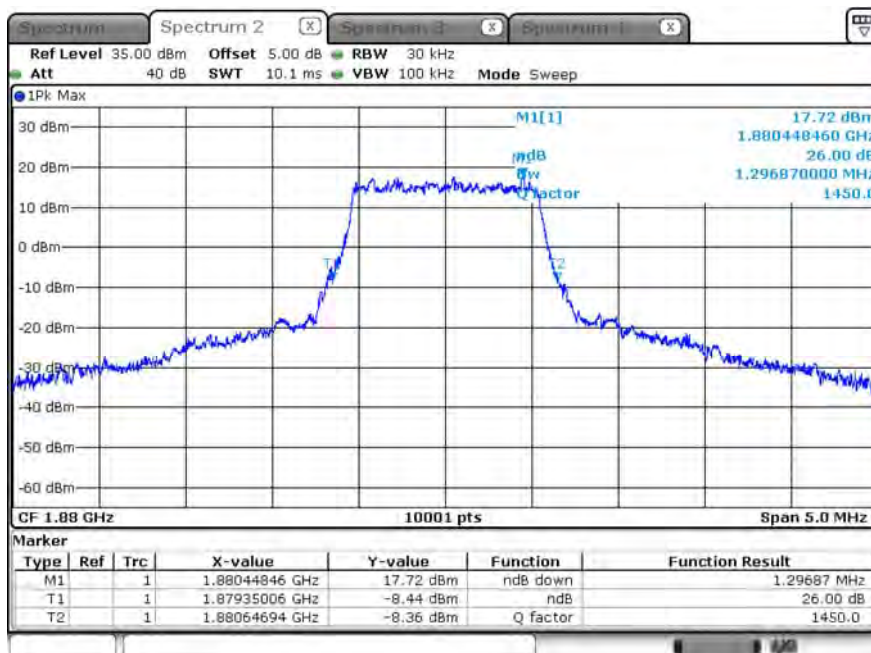
| 1.4M_16-QAM     |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 1.296                        | 1.104                      | N/A         |

### -26dB BW\_CH18900\_1.4M\_QPSK\_6RB0



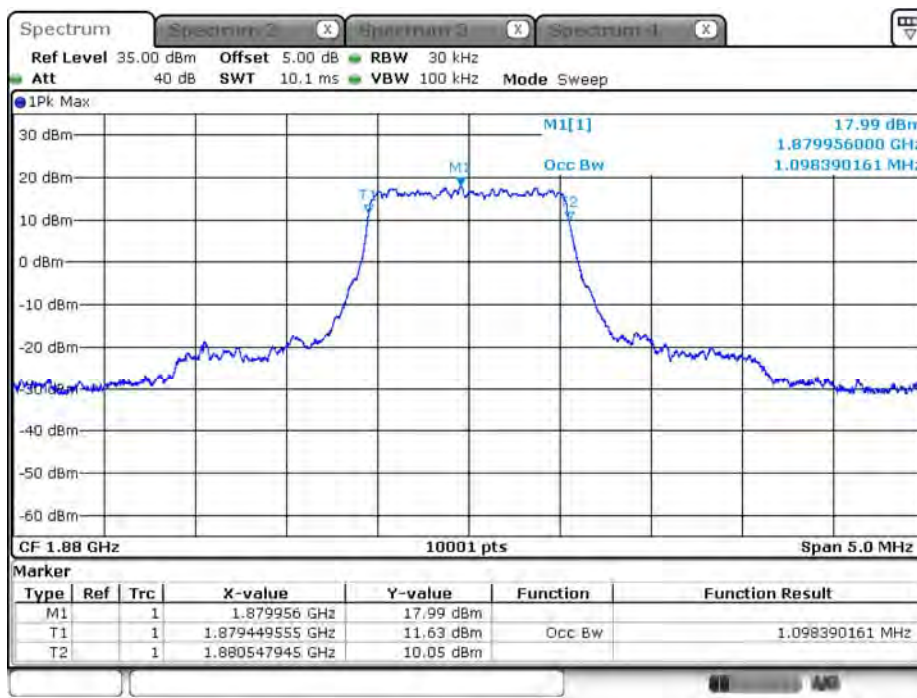
Date: 9.APR.2019 12:56:15

### -26dB BW\_CH18900\_1.4M\_16-QAM\_6RB0



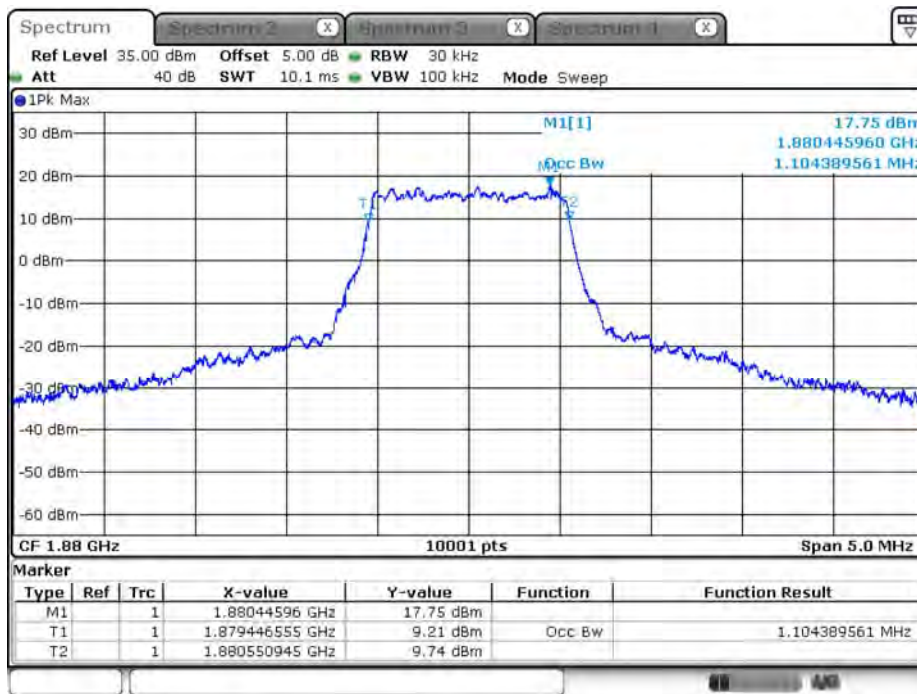
Date: 9.APR.2019 15:02:59

### 99% BW\_CH18900\_1.4M\_QPSK\_6RB0



Date: 9.APR.2019 12:55:16

### 99% BW\_CH18900\_1.4M\_16-QAM\_6RB0



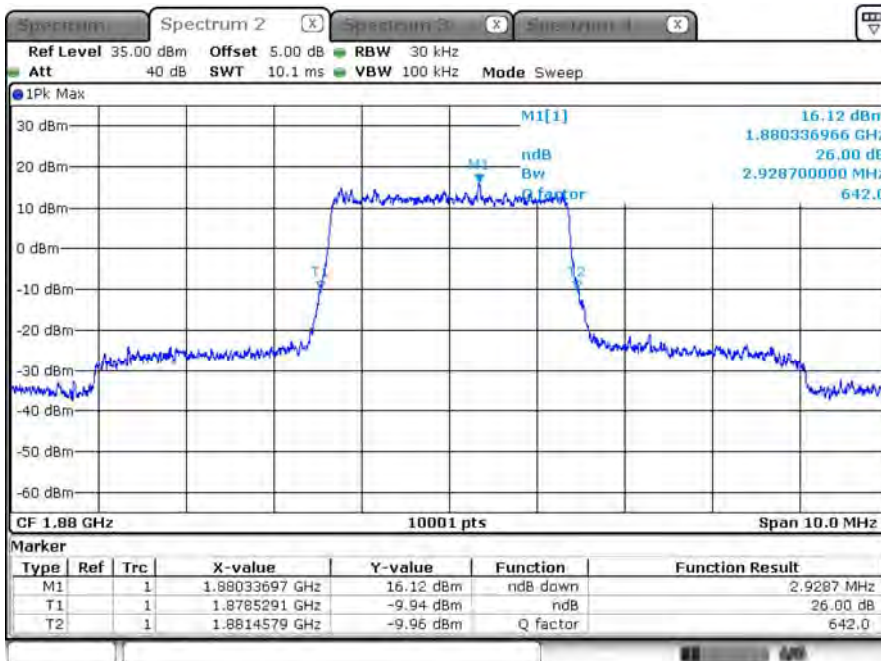
Date: 9.APR.2019 15:02:35

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 3M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 2.928                        | 2.684                      | N/A         |

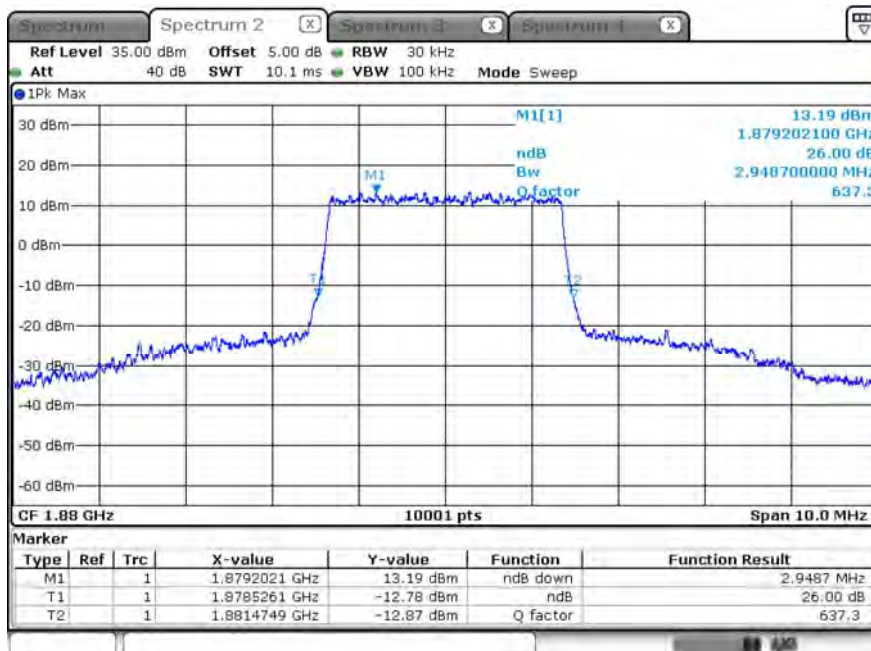
| 3M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 2.948                        | 2.687                      | N/A         |

### -26dB BW\_CH18900\_3M\_QPSK\_15RB0



Date: 9.APR.2019 13:00:02

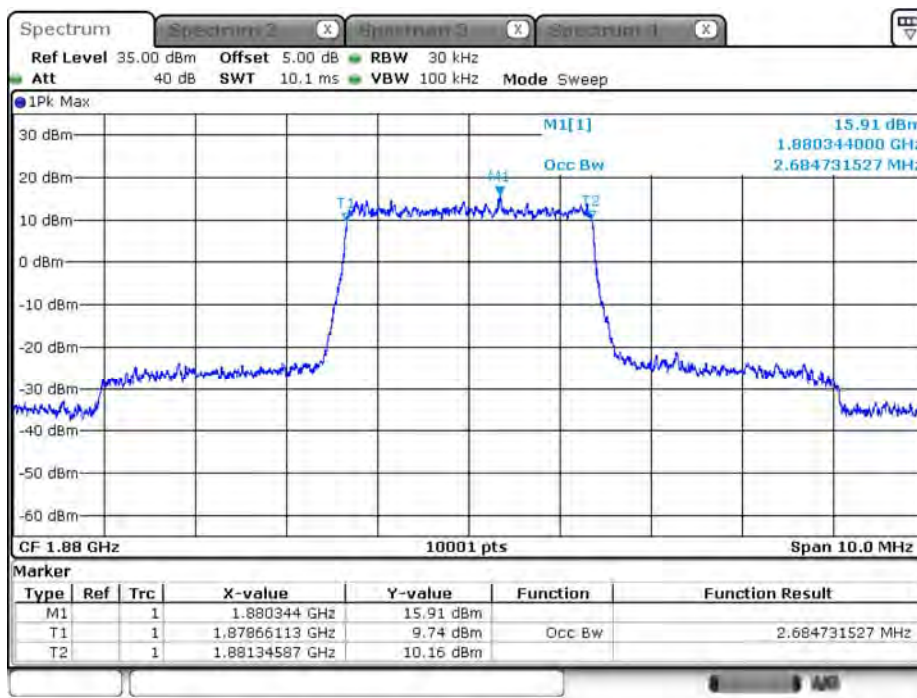
### -26dB BW\_CH18900\_3M\_16-QAM\_15RB0



Date: 9.APR.2019 15:00:12

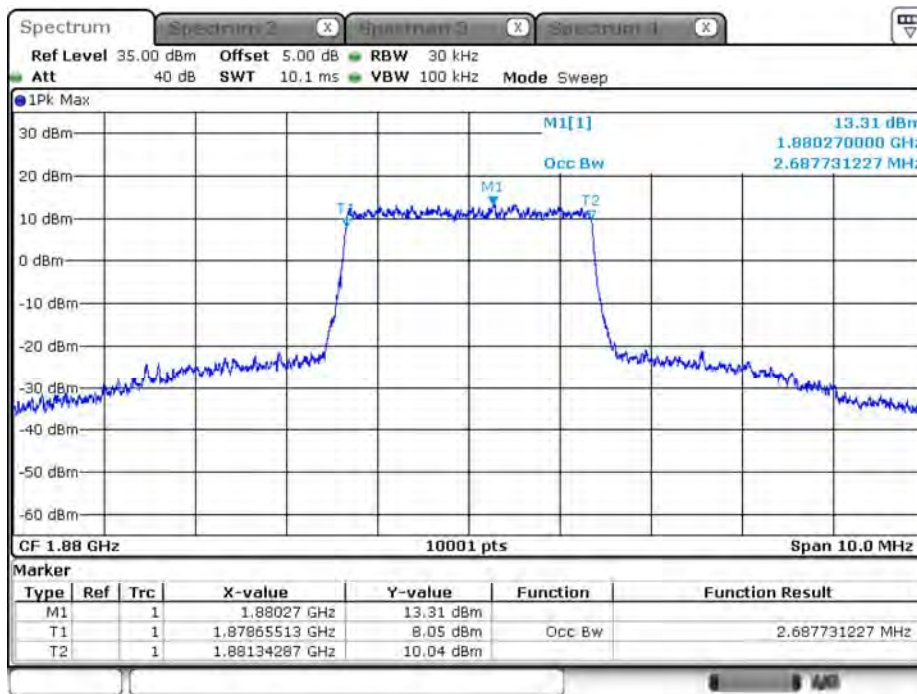


### 99% BW\_CH18900\_3M\_QPSK\_15RB0



Date: 9.APR.2019 12:59:13

### 99% BW\_CH18900\_3M\_16-QAM\_15RB0



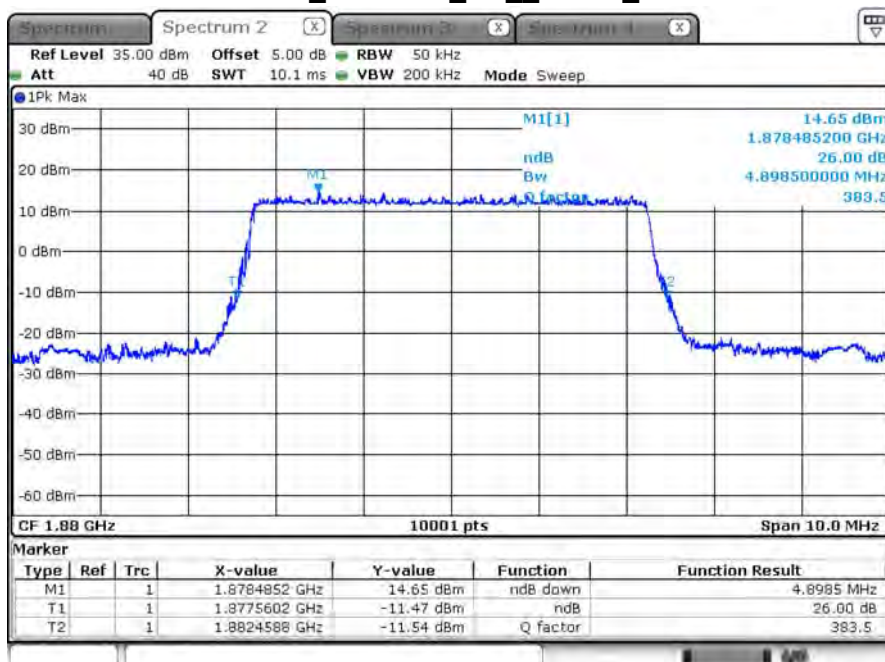
Date: 9.APR.2019 14:59:12

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 5M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 4.898                        | 4.495                      | N/A         |

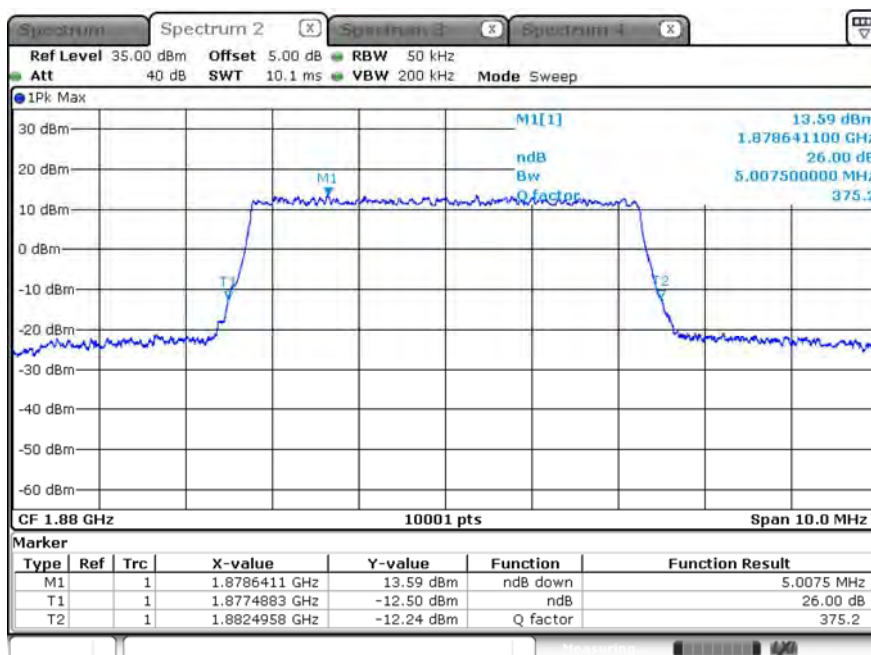
| 5M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 5.007                        | 4.481                      | N/A         |

### -26dB BW\_CH18900\_5M\_QPSK\_25RB0



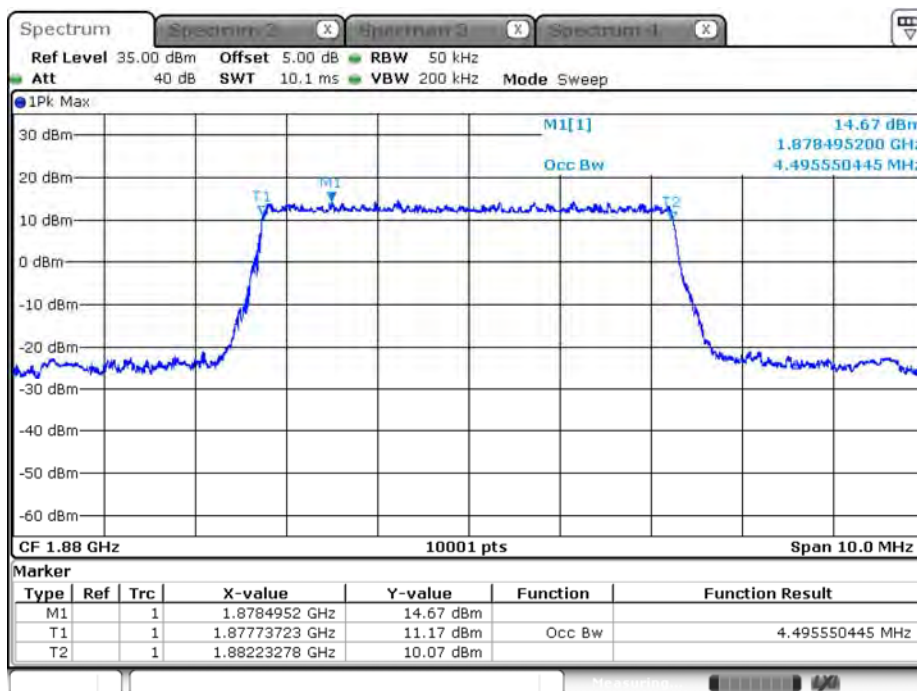
Date: 9 APR 2019 13:02:45

### -26dB BW\_CH18900\_5M\_16-QAM\_25RB0



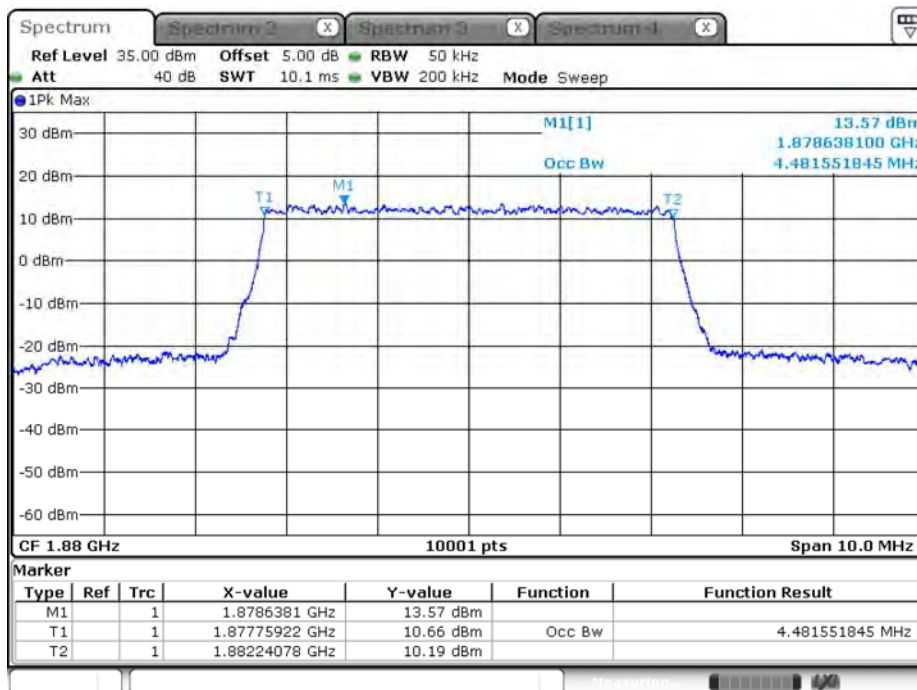
Date: 9 APR 2019 14:57:25

### 99% BW\_CH18900\_5M\_QPSK\_25RB0



Date: 9.APR.2019 13:01:32

### 99% BW\_CH18900\_5M\_16-QAM\_25RB0



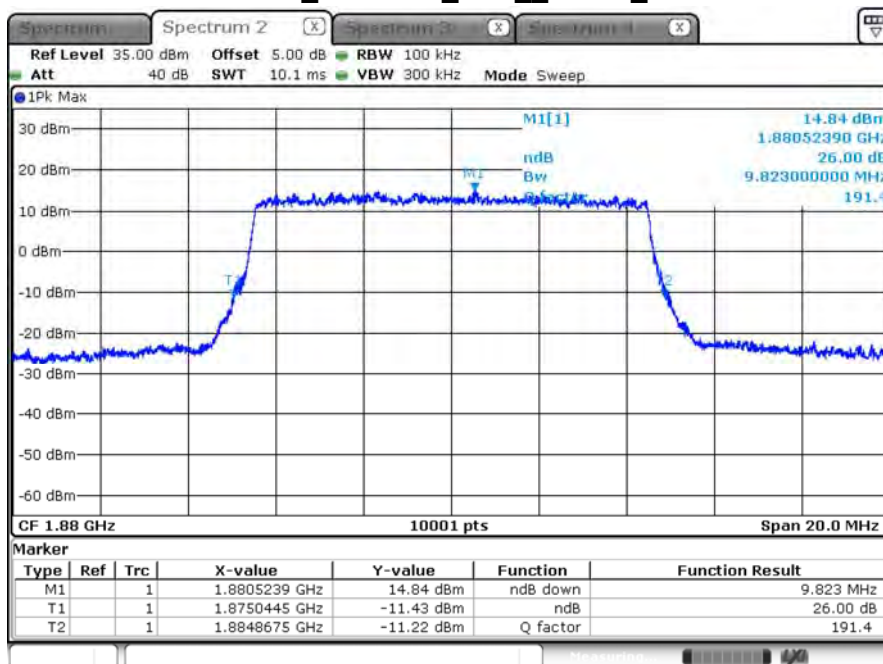
Date: 9.APR.2019 14:54:42

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 10M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 9.823                        | 8.929                      | N/A         |

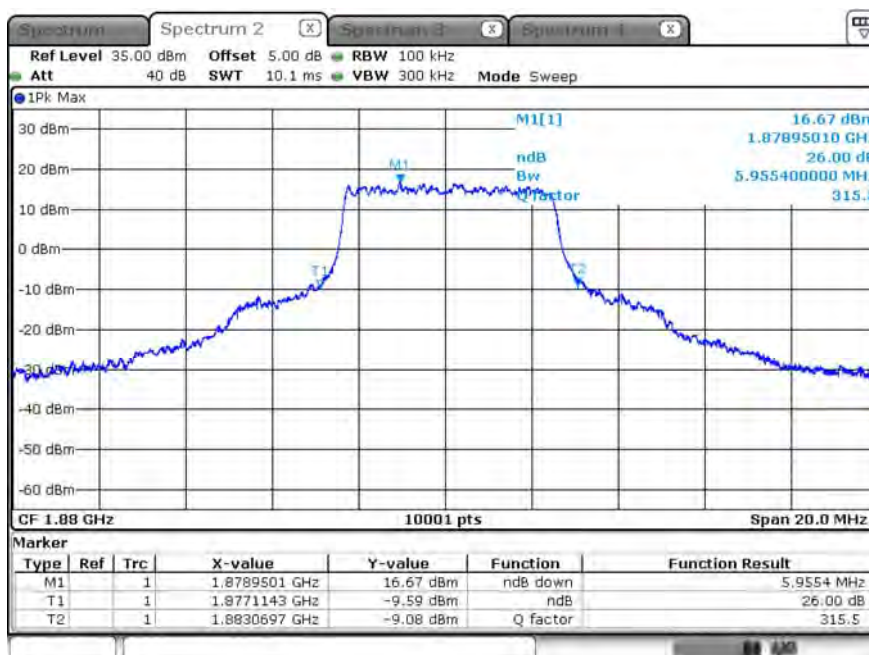
| 10M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 5.955                        | 4.917                      | N/A         |

### -26dB BW\_CH18900\_10M\_QPSK\_50RB0



Date: 9.APR.2019 13:08:25

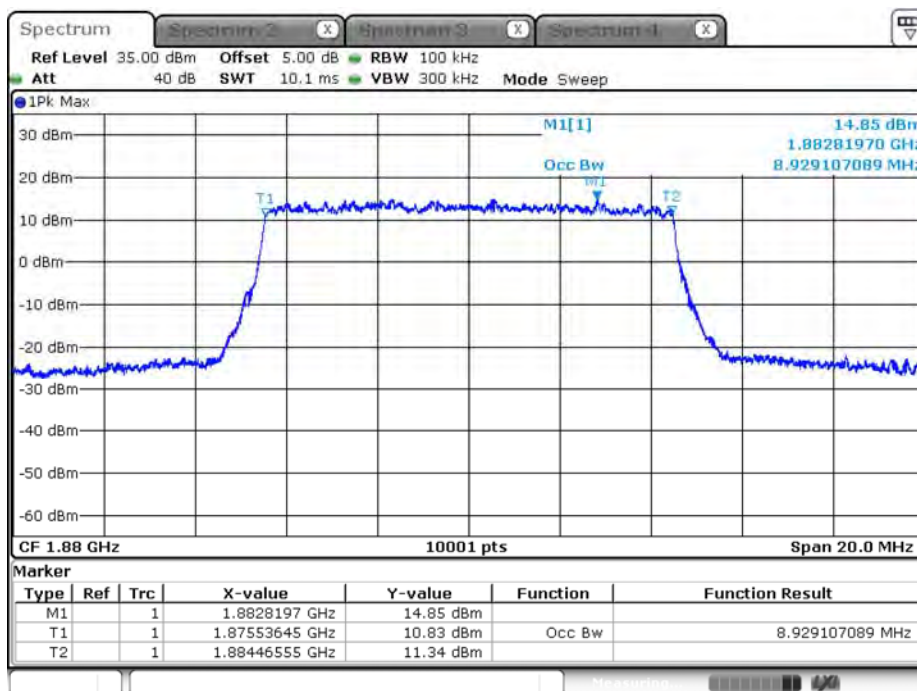
### -26dB BW\_CH18900\_10M\_16-QAM\_27RB12



Date: 9.APR.2019 14:49:32

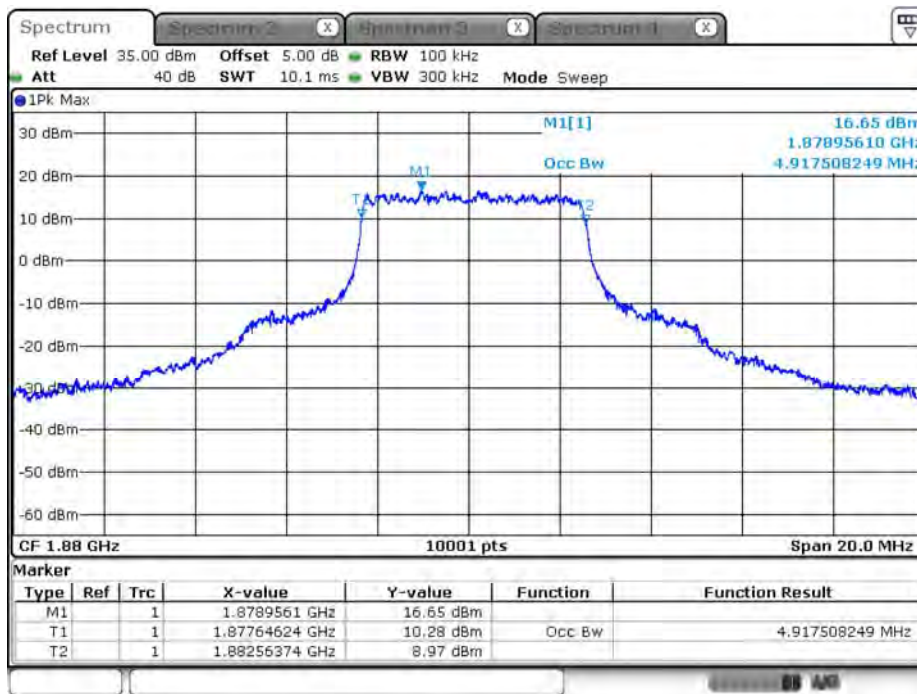


### 99% BW\_CH18900\_10M\_QPSK\_50RB0



Date: 9.APR.2019 13:07:24

### 99% BW\_CH18900\_10M\_16-QAM\_27RB12



Date: 9.APR.2019 14:46:36

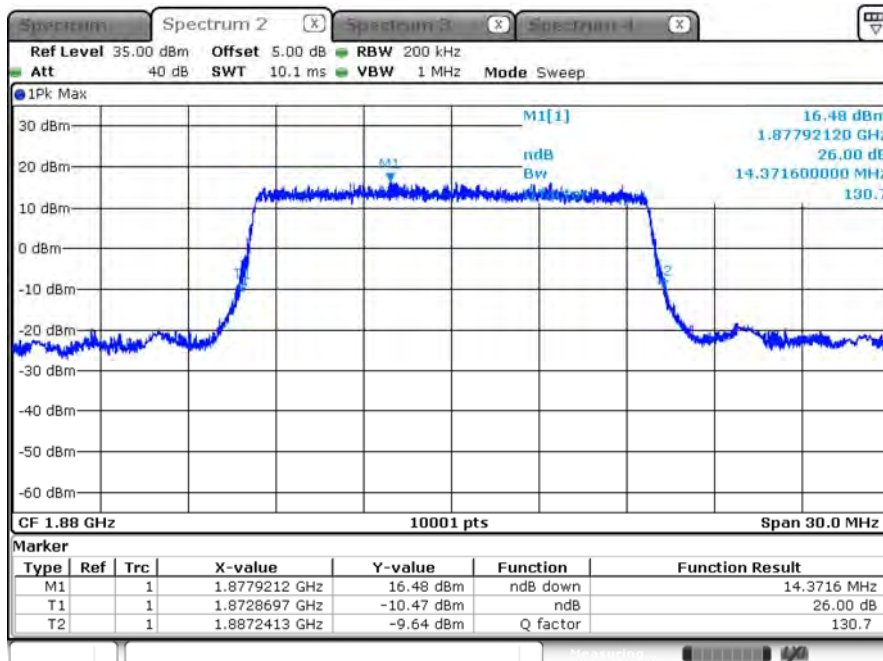
|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 15M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 14.371                       | 13.426                     | N/A         |

| 15M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 7.341                        | 5.197                      | N/A         |



### -26dB BW\_CH18900\_15M\_QPSK\_75RB0



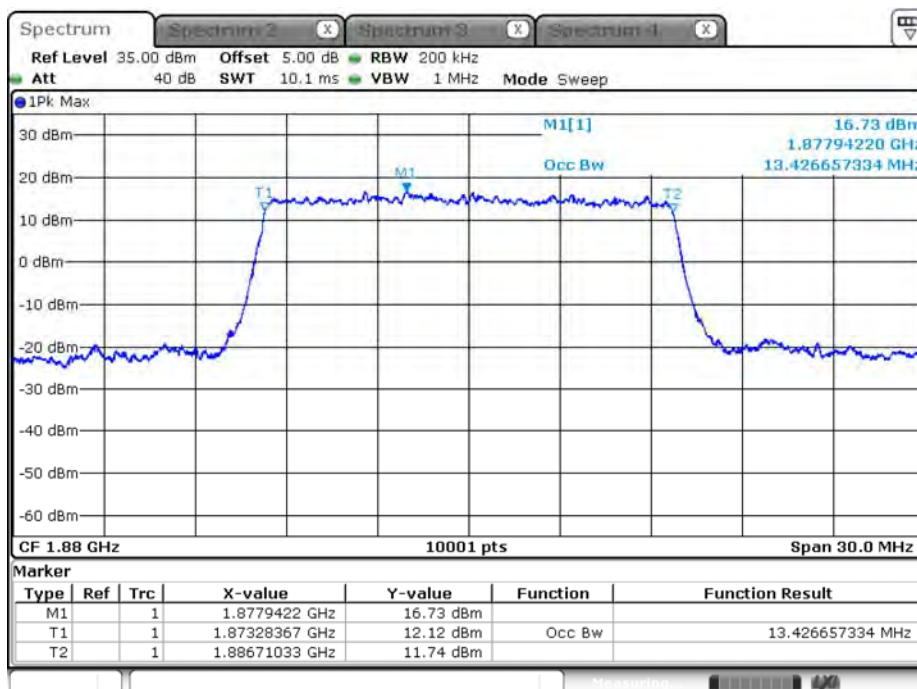
Date: 9.APR.2019 13:15:04

### -26dB BW\_CH18900\_15M\_16-QAM\_27RB24



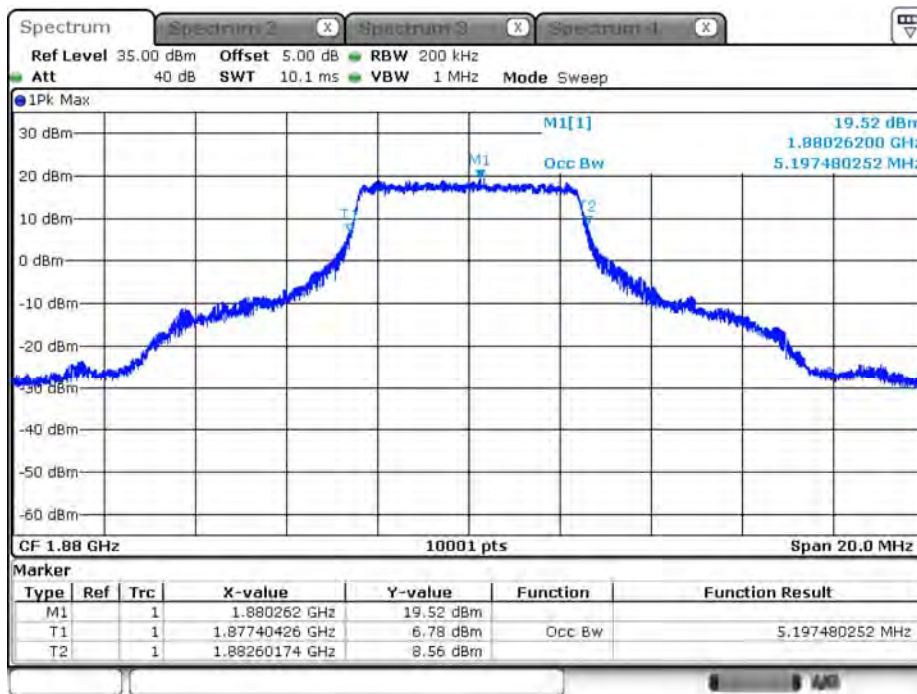
Date: 9.APR.2019 14:36:35

### 99% BW\_CH18900\_15M\_\_QPSK\_75RB0



Date: 9.APR.2019 13:14:28

### 99% BW\_CH18900\_15M\_16-QAM\_27RB24



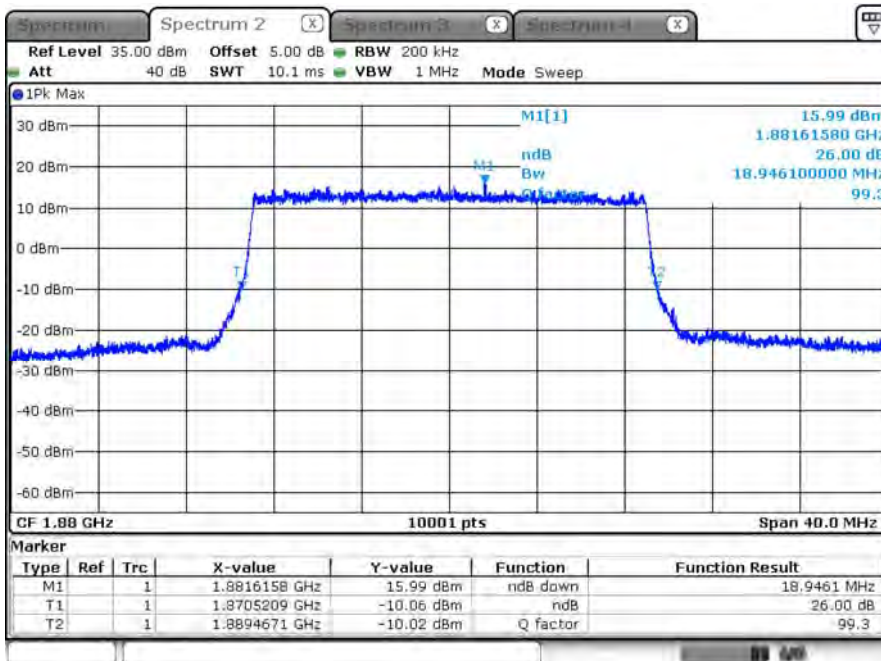
Date: 9.APR.2019 14:33:13

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 1: LTE Band 2 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 20M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 18.946                       | 17.842                     | N/A         |

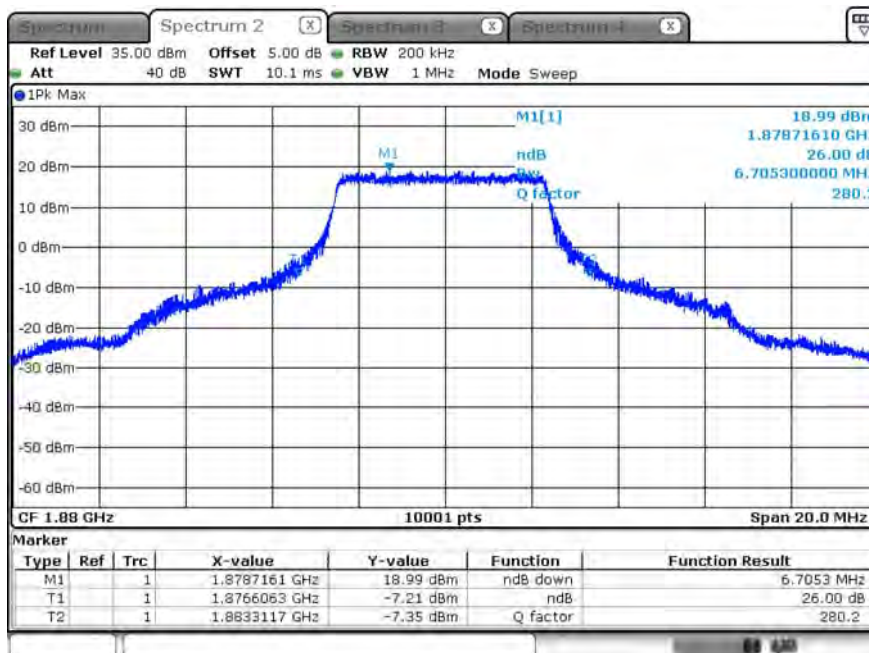
| 20M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1880            | 6.705                        | 5.259                      | N/A         |

### -26dB BW\_CH18900\_20M\_QPSK\_100RB0



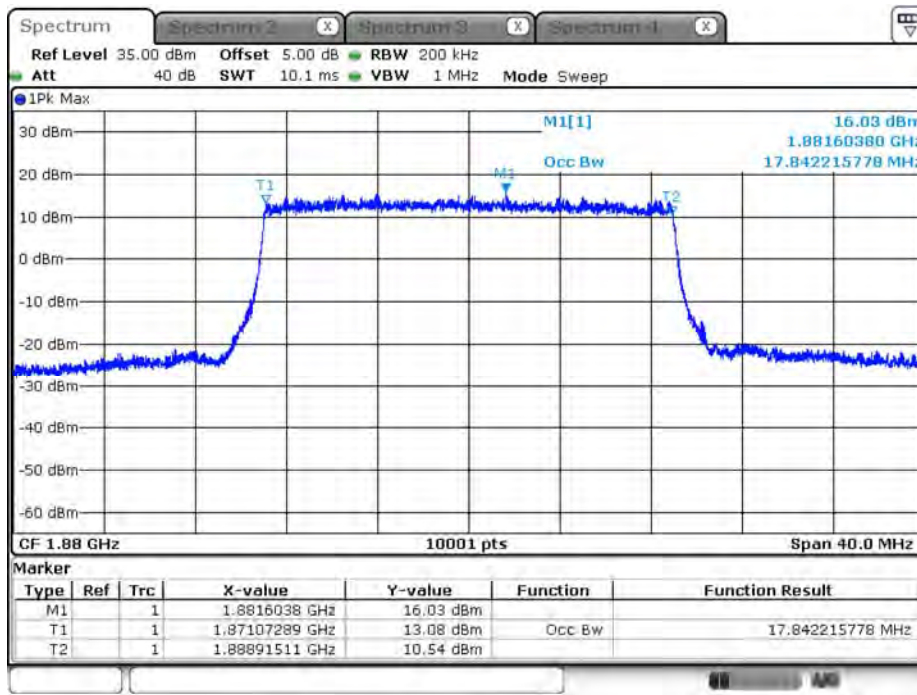
Date: 9 APR 2019 13:16:57

### -26dB BW\_CH18900\_20M\_16-QAM\_27RB36



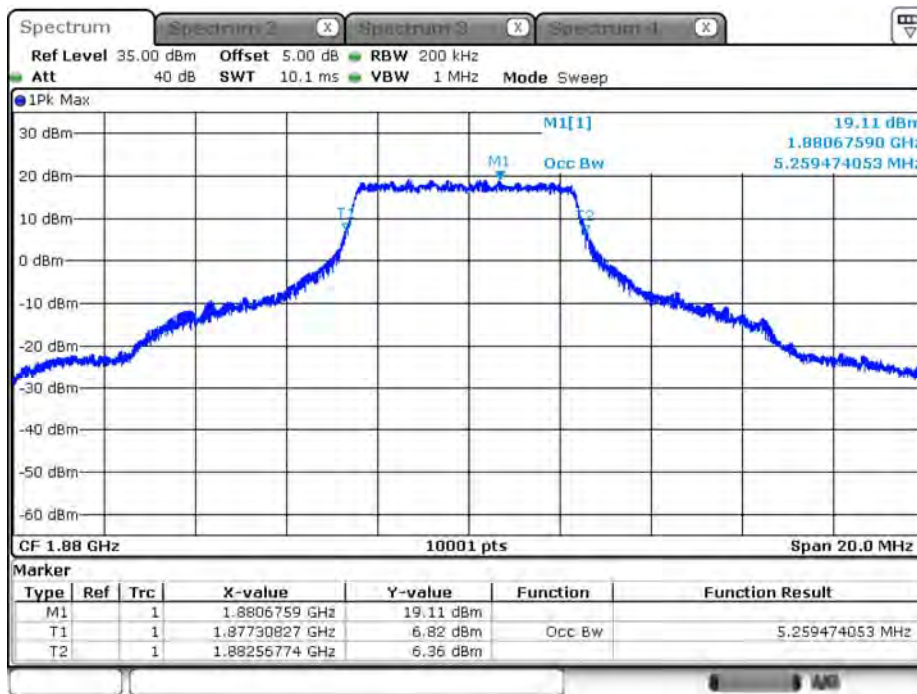
Date: 9 APR 2019 14:31:51

### 99% BW\_CH18900\_20M\_QPSK\_100RB0



Date: 9 APR 2019 13:16:05

### 99% BW\_CH18900\_20M\_16-QAM\_27RB36



Date: 9 APR 2019 14:31:08

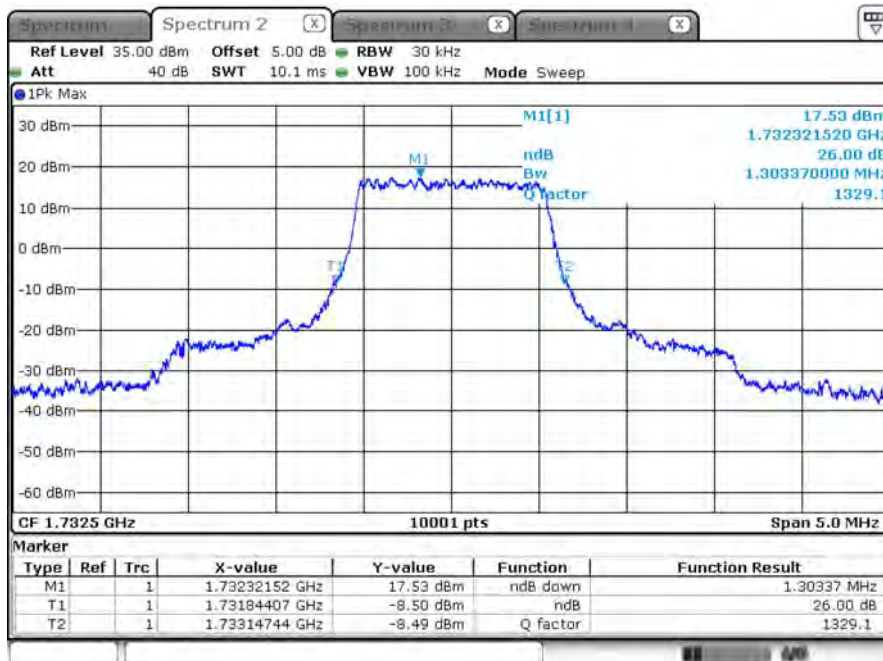


|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 1.4M_QPSK       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 1.303                        | 1.093                      | N/A         |

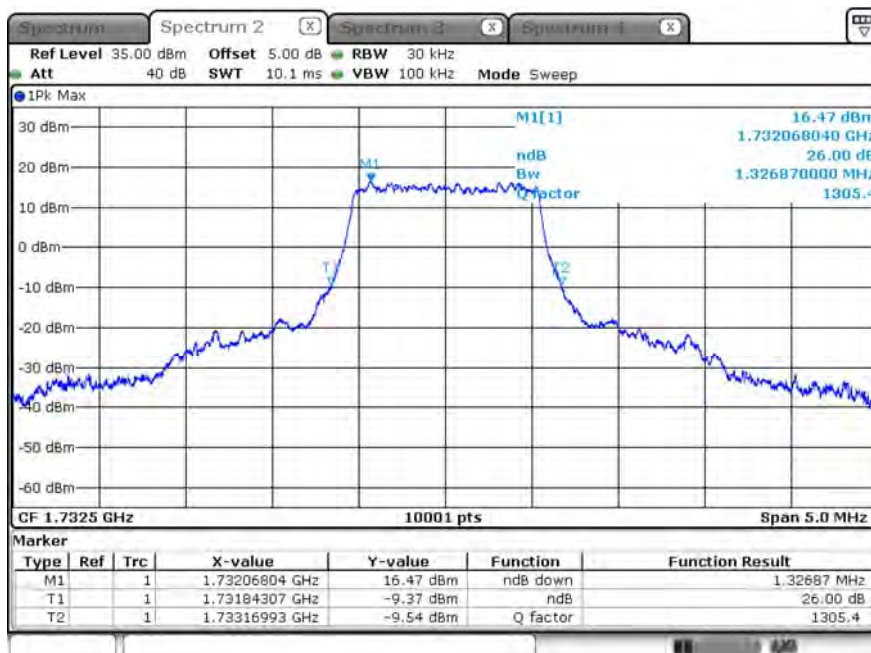
| 1.4M_16-QAM     |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 1.326                        | 1.095                      | N/A         |

### -26dB BW\_CH20175\_1.4M\_QPSK\_6RB0



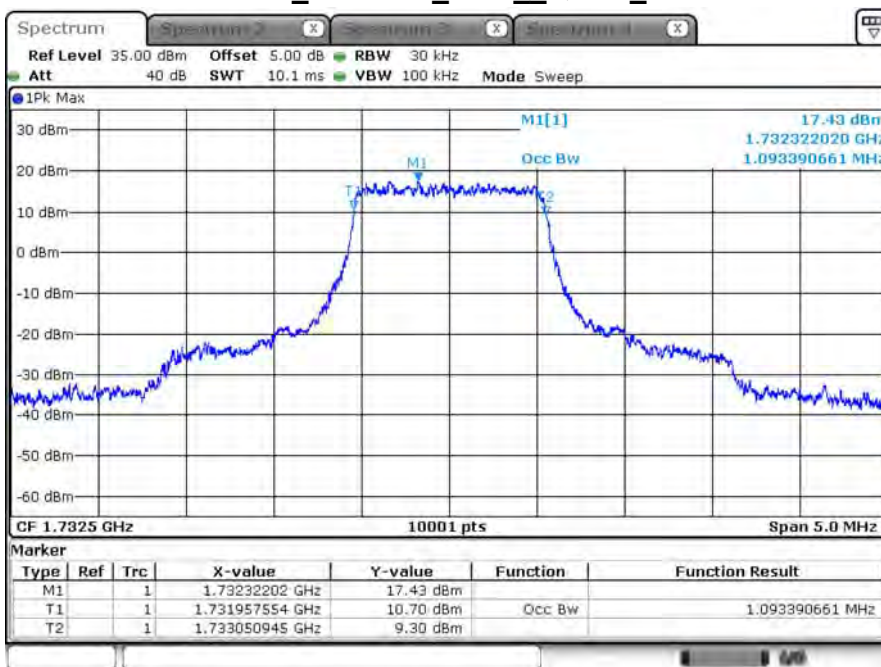
Date: 9 APR 2019 15:30:19

### -26dB BW\_CH20175\_1.4M\_16-QAM\_6RB0



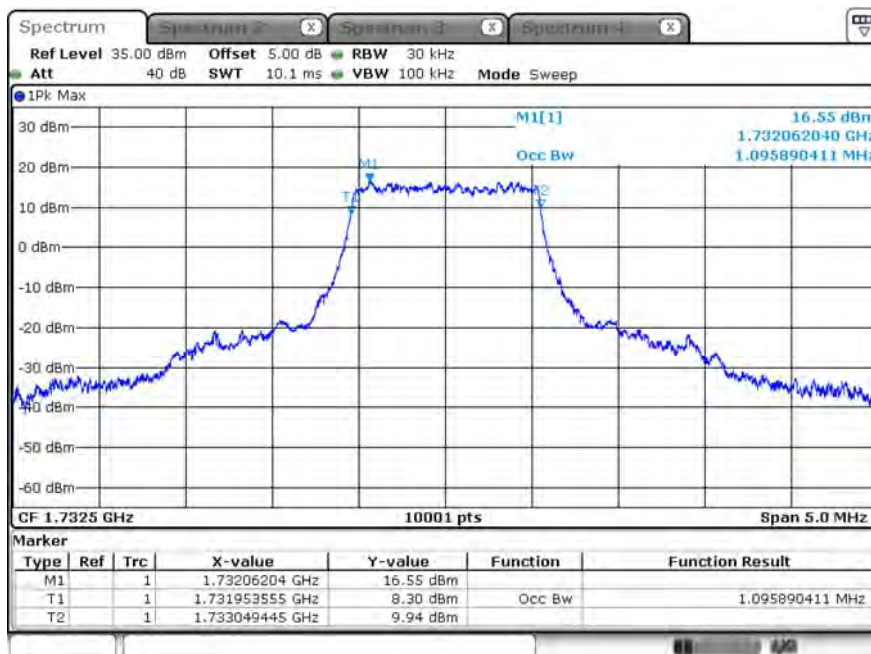
Date: 9 APR 2019 15:29:42

### 99% BW\_CH20175\_1.4M\_QPSK\_6RB0



Date: 9.APR.2019 15:24:00

### 99% BW\_CH20175\_1.4M\_16-QAM\_6RB0



Date: 9.APR.2019 15:24:42

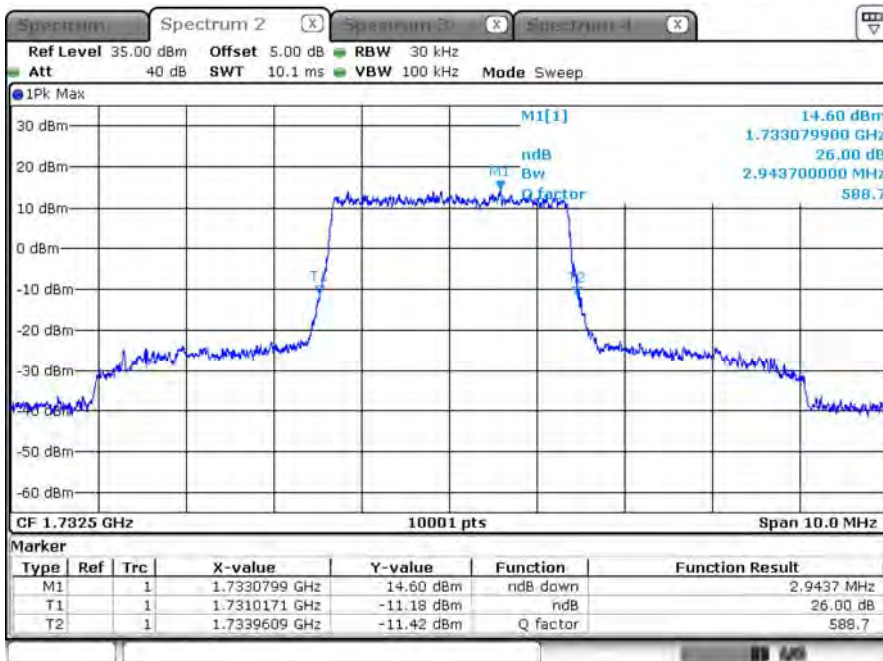


|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 3M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 2.943                        | 2.684                      | N/A         |

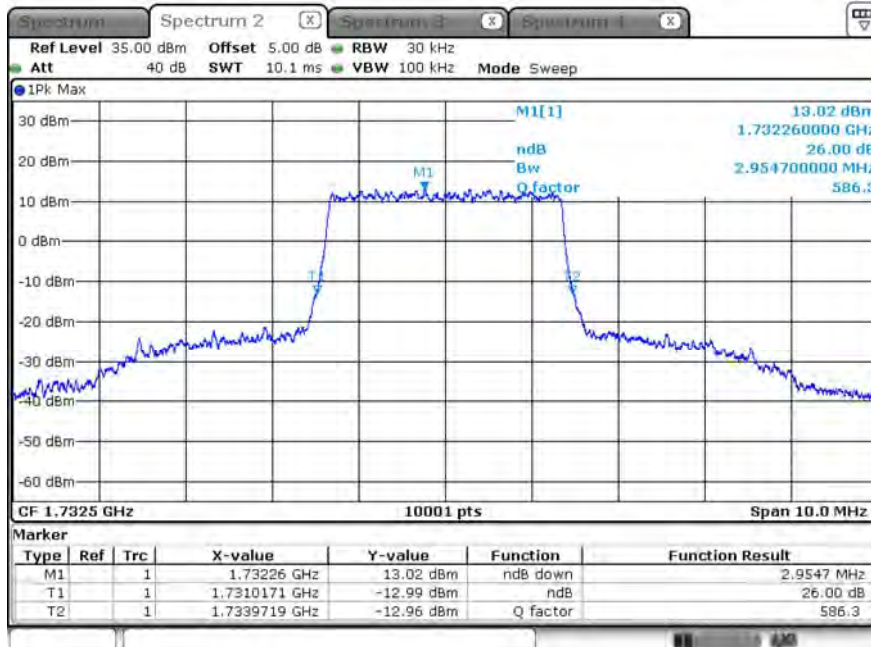
| 3M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 2.954                        | 2.683                      | N/A         |

### -26dB BW\_CH20175\_3M\_QPSK\_6RB0



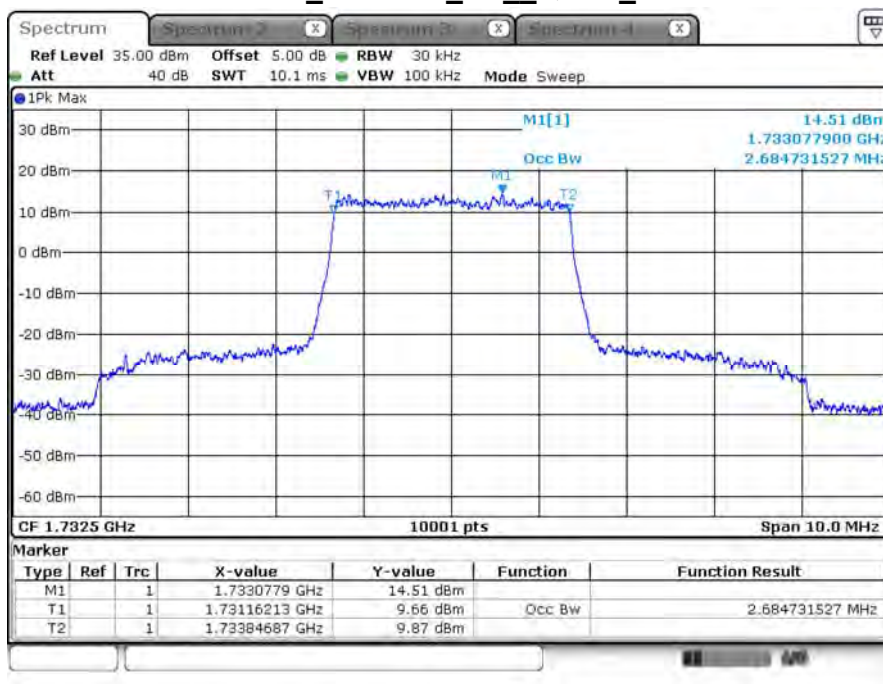
Date: 9.APR.2019 16:13:28

### -26dB BW\_CH20175\_3M\_16-QAM\_6RB0



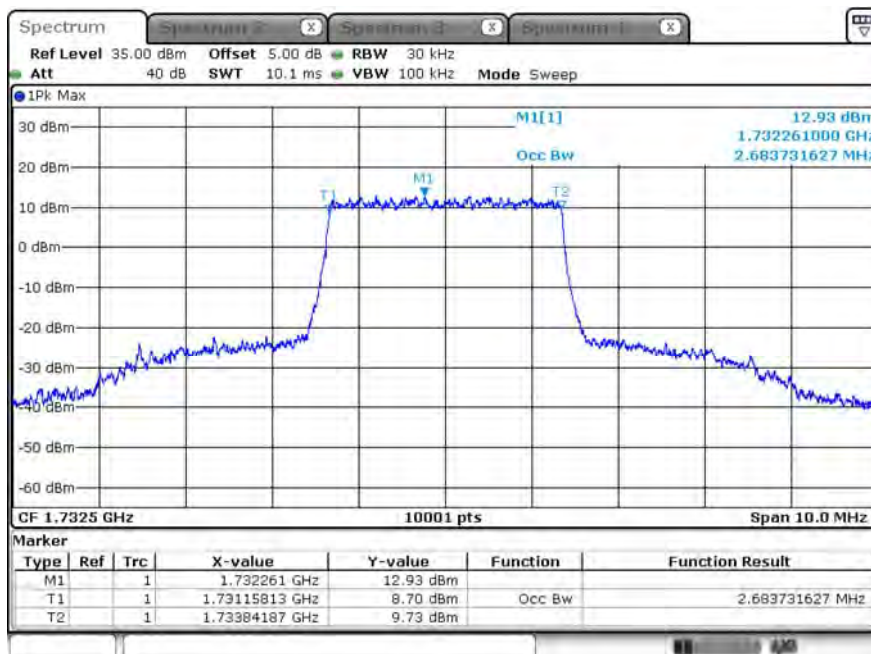
Date: 9.APR.2019 16:12:56

### 99% BW\_CH20175\_3M\_QPSK\_6RB0



Date: 9.APR.2019 15:35:04

### 99% BW\_CH20175\_3M\_16-QAM\_6RB0



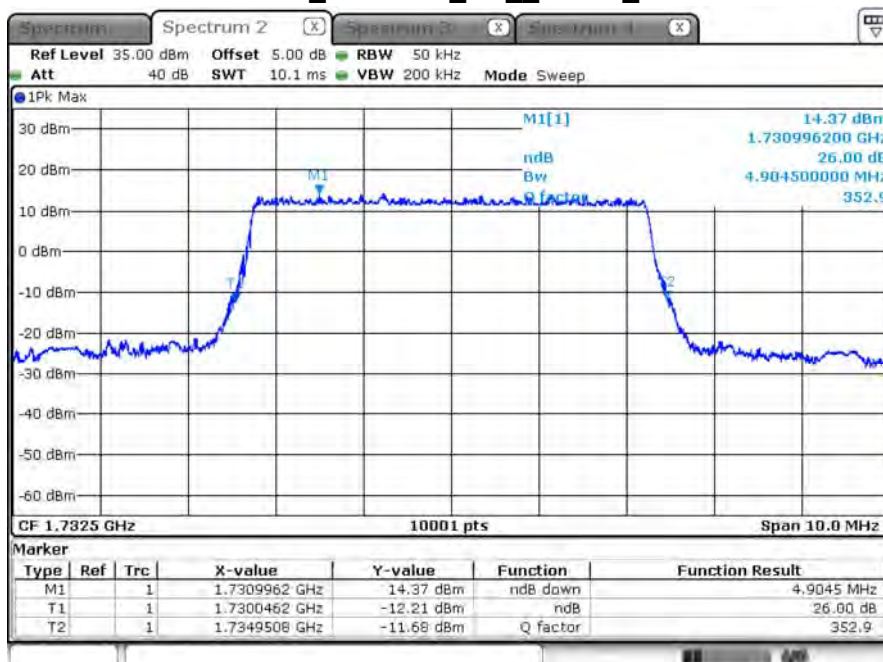
Date: 9.APR.2019 15:36:01

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 5M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 4.904                        | 4.497                      | N/A         |

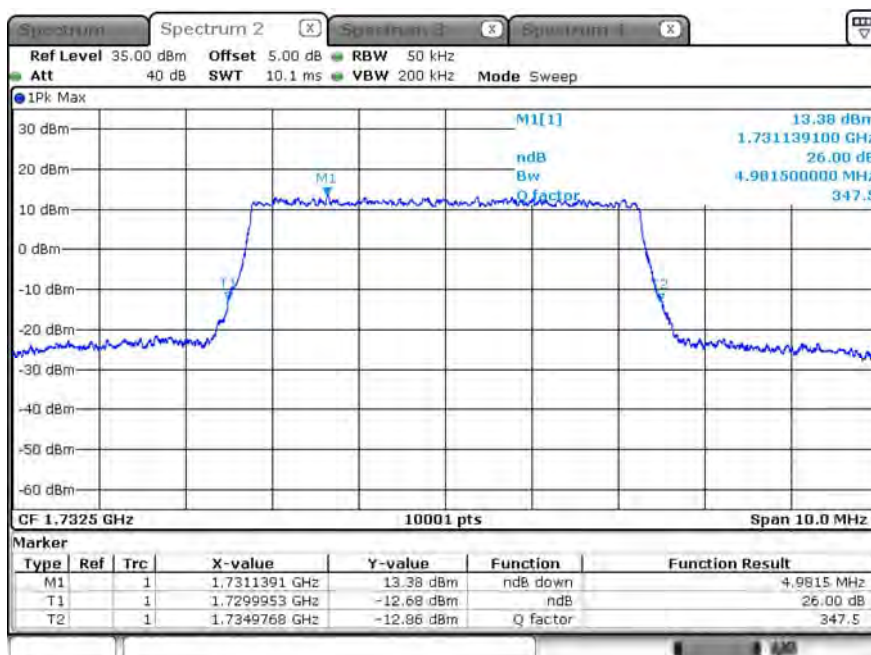
| 5M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 4.981                        | 4.480                      | N/A         |

### -26dB BW\_CH20175\_5M\_QPSK\_25RB0



Date: 9.APR.2019 16:22:11

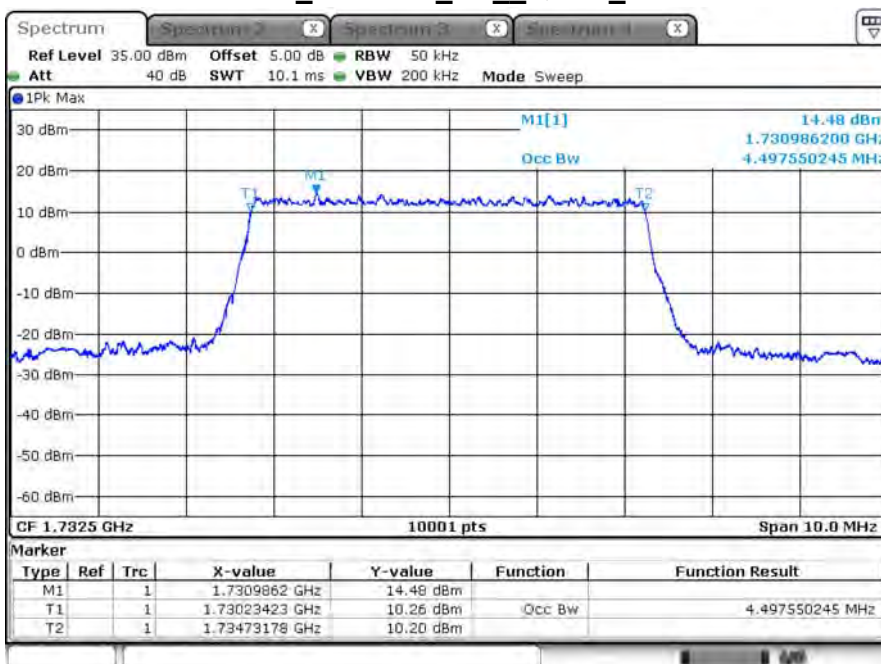
### -26dB BW\_CH20175\_5M\_16-QAM\_25RB0



Date: 9.APR.2019 16:21:30

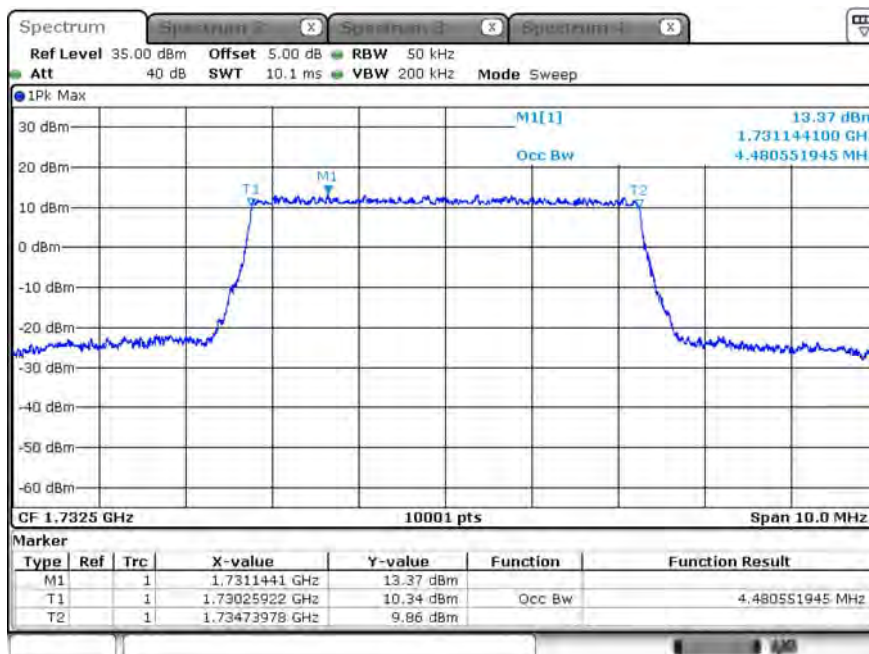


### 99% BW\_CH20175\_5M\_QPSK\_25RB0



Date: 9.APR.2019 16:16:57

### 99% BW\_CH20175\_5M\_16-QAM\_25RB0



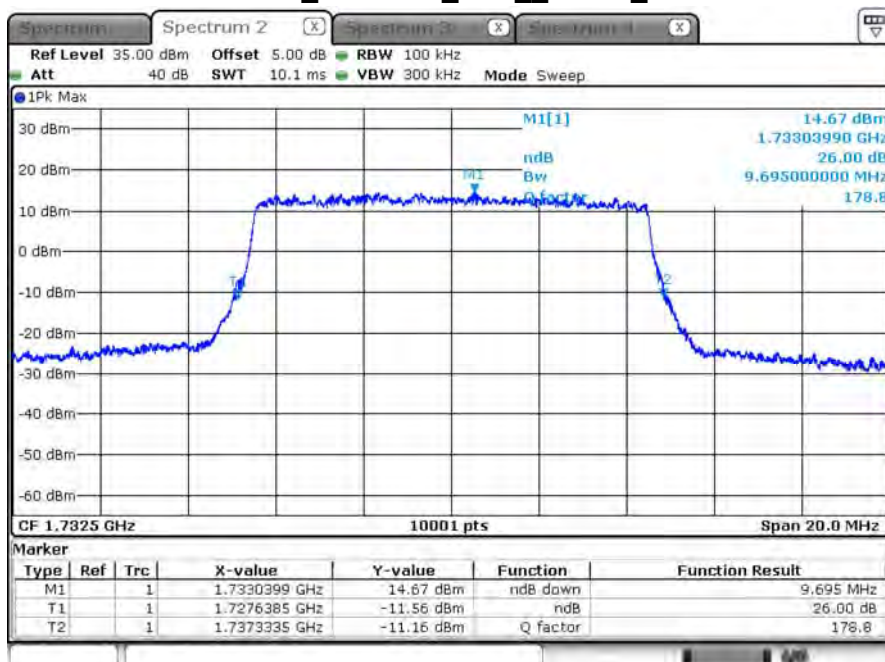
Date: 9.APR.2019 16:17:55

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 10M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 9.695                        | 8.921                      | N/A         |

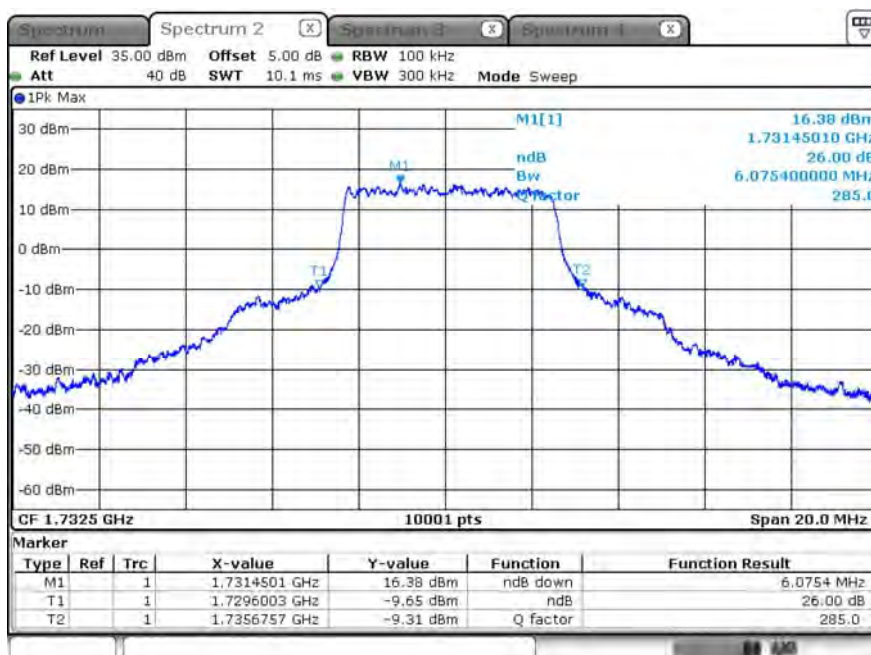
| 10M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 6.075                        | 4.907                      | N/A         |

### -26dB BW\_CH20175\_10M\_QPSK\_50RB0



Date: 9 APR 2019 16:33:01

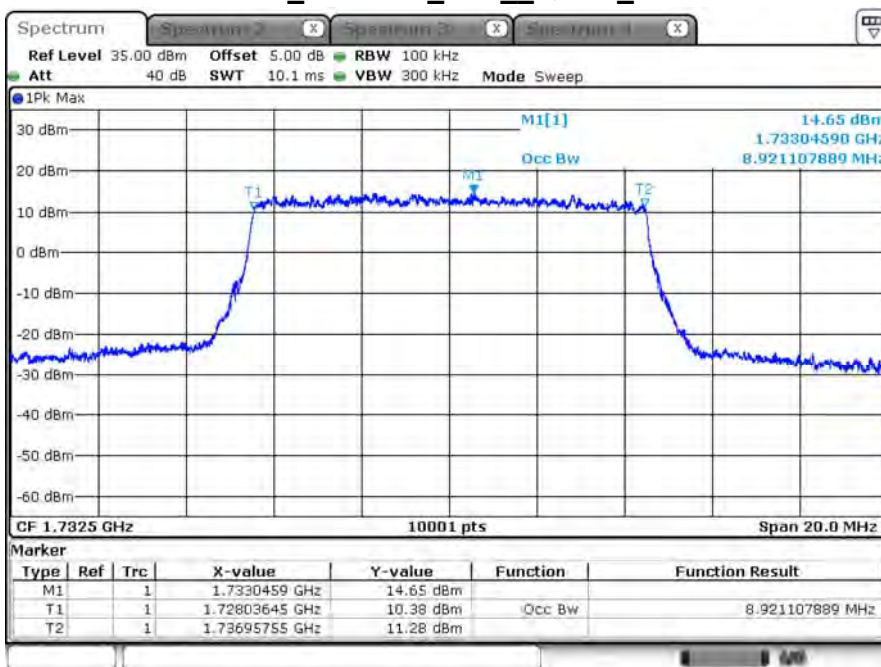
### -26dB BW\_CH20175\_10M\_16-QAM\_27RB12



Date: 9 APR 2019 16:31:23

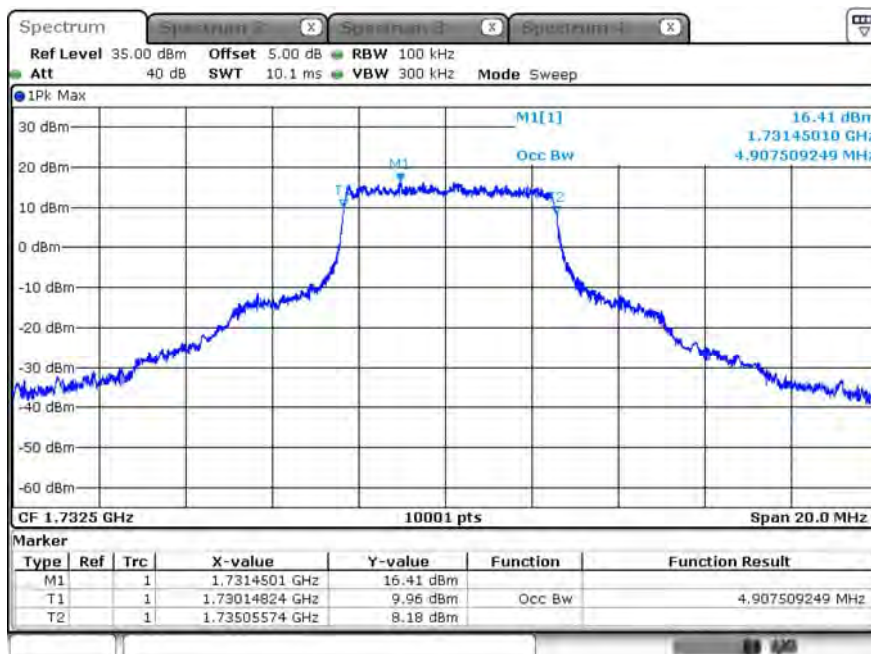


### 99% BW\_CH20175\_10M\_QPSK\_50RB0



Date: 9 APR 2019 16:26:16

### 99% BW\_CH20175\_10M\_16-QAM\_27RB12



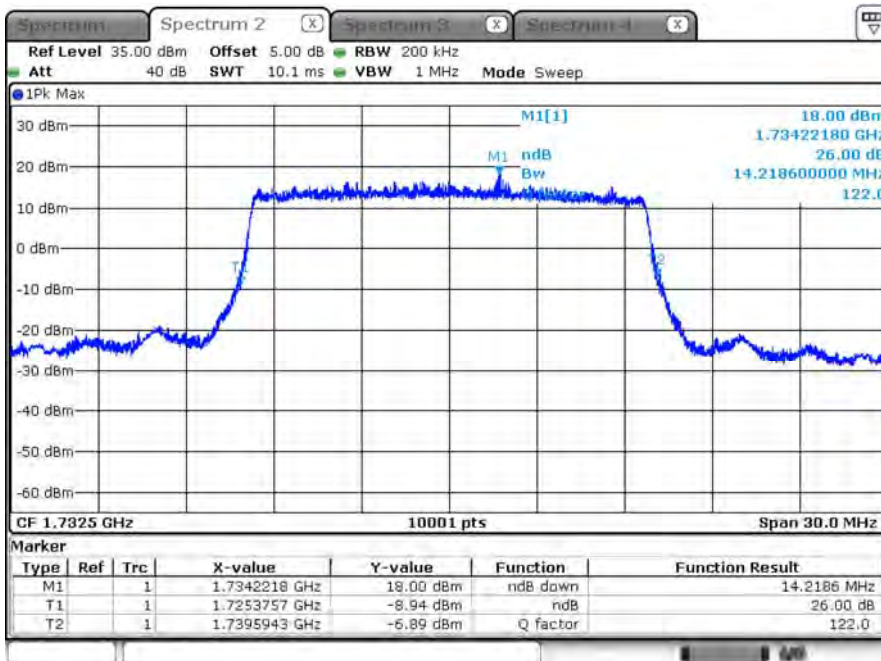
Date: 9 APR 2019 16:27:50

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 15M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 14.218                       | 13.390                     | N/A         |

| 15M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 7.111                        | 5.171                      | N/A         |

### -26dB BW\_CH20175\_15M\_QPSK\_75RB0



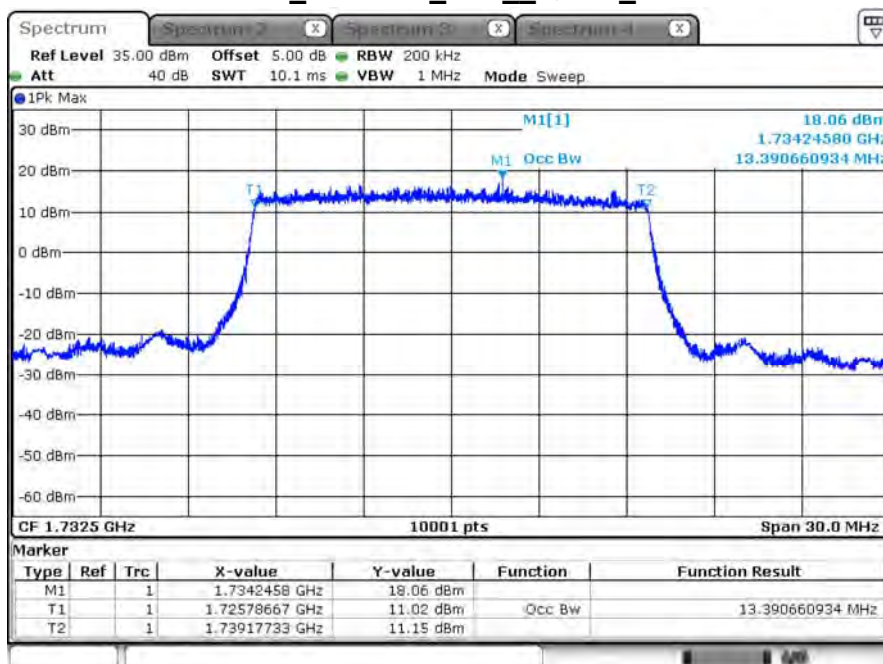
Date: 9 APR 2019 16:39:49

### -26dB BW\_CH20175\_15M\_16-QAM\_27RB24



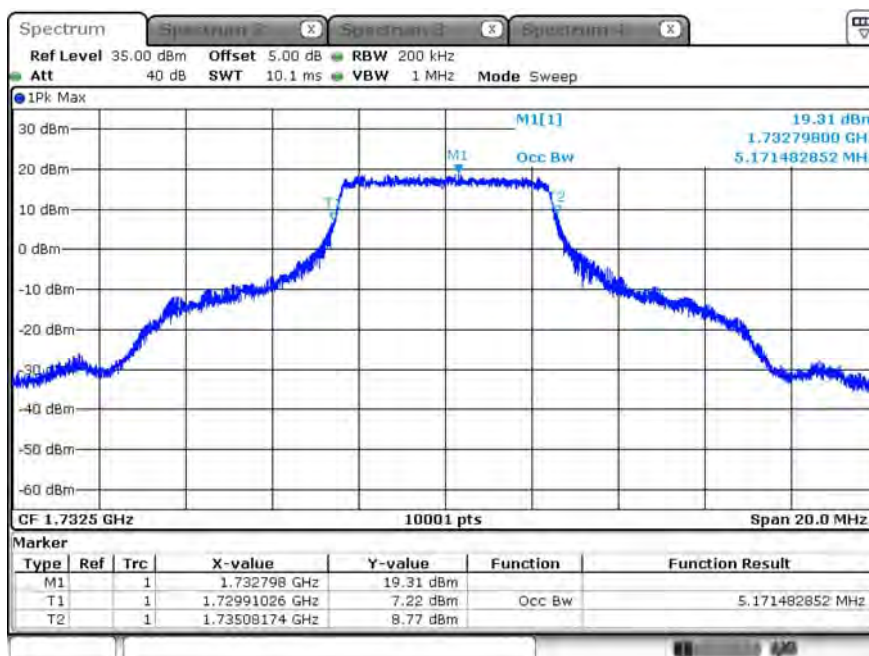
Date: 9 APR 2019 16:39:05

### 99% BW\_CH20175\_15M\_QPSK\_75RB0



Date: 9 APR 2019 16:35:49

### 99% BW\_CH20175\_15M\_16-QAM\_27RB24



Date: 9 APR 2019 16:36:52

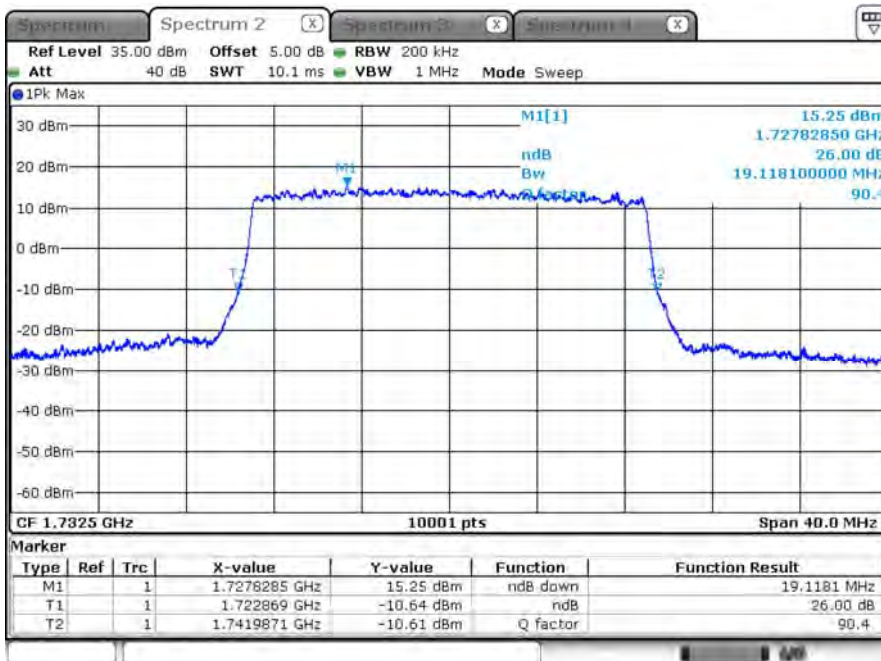
|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 2: LTE Band 4 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 20M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 19.118                       | 17.810                     | N/A         |

| 20M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 1732.5          | 7.593                        | 5.251                      | N/A         |

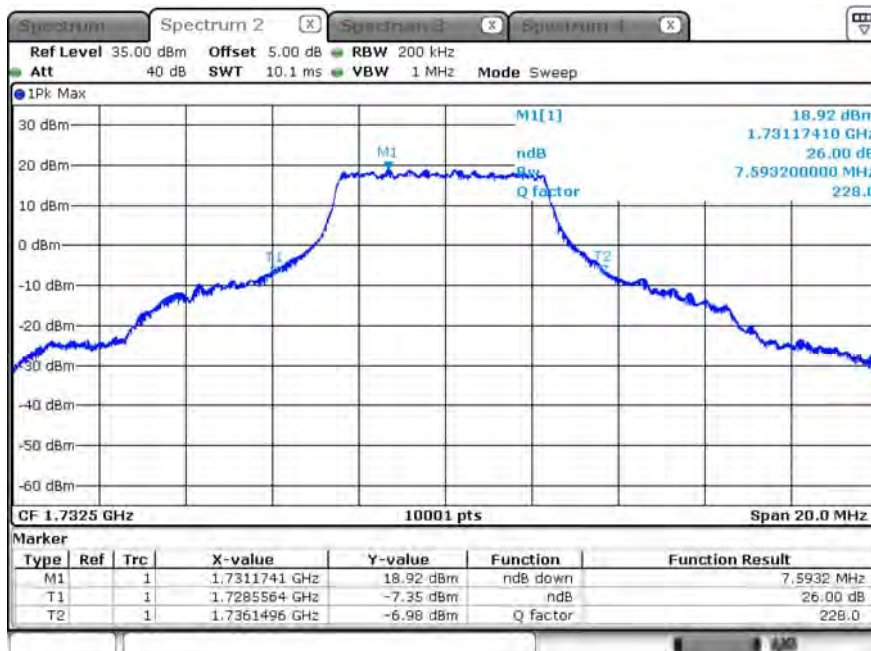


### -26dB BW\_CH20175\_20M\_QPSK\_100RB0



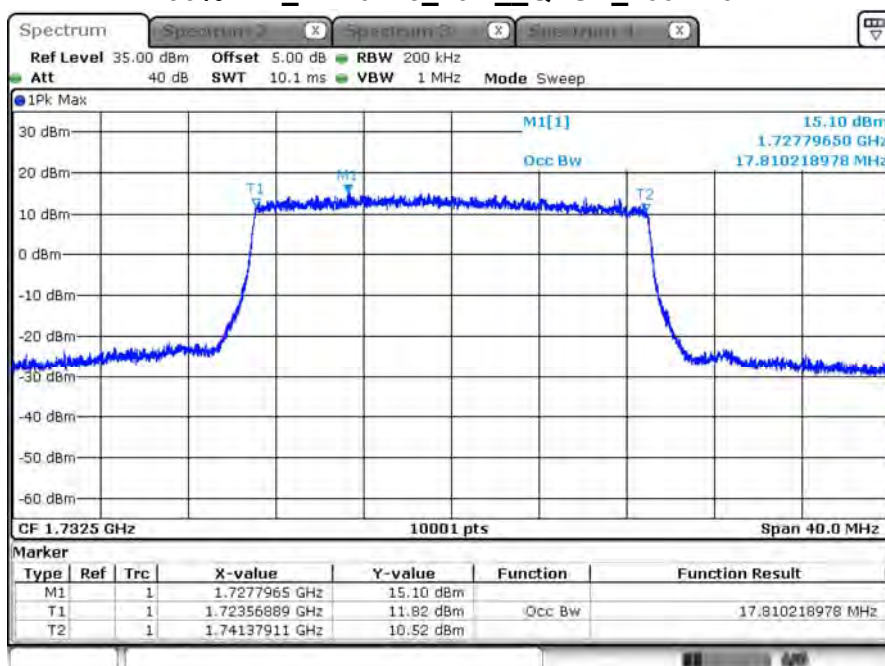
Date: 9.APR.2019 16:44:32

### -26dB BW\_CH20175\_20M\_16-QAM\_27RB36



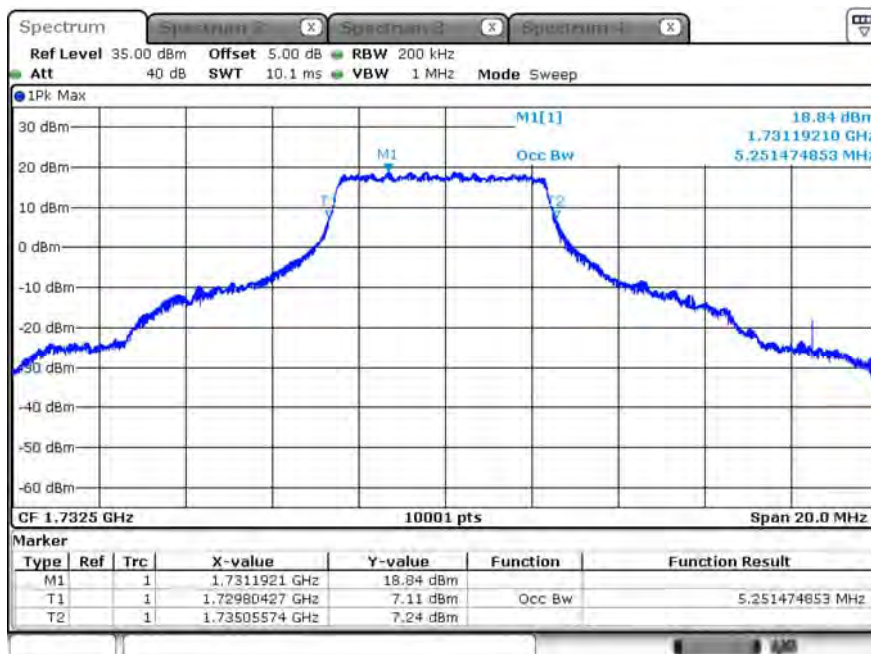
Date: 9.APR.2019 16:53:57

### 99% BW\_CH20175\_20M\_QPSK\_100RB0



Date: 9.APR.2019 16:45:19

### 99% BW\_CH20175\_20M\_16-QAM\_27RB36



Date: 9.APR.2019 16:47:41

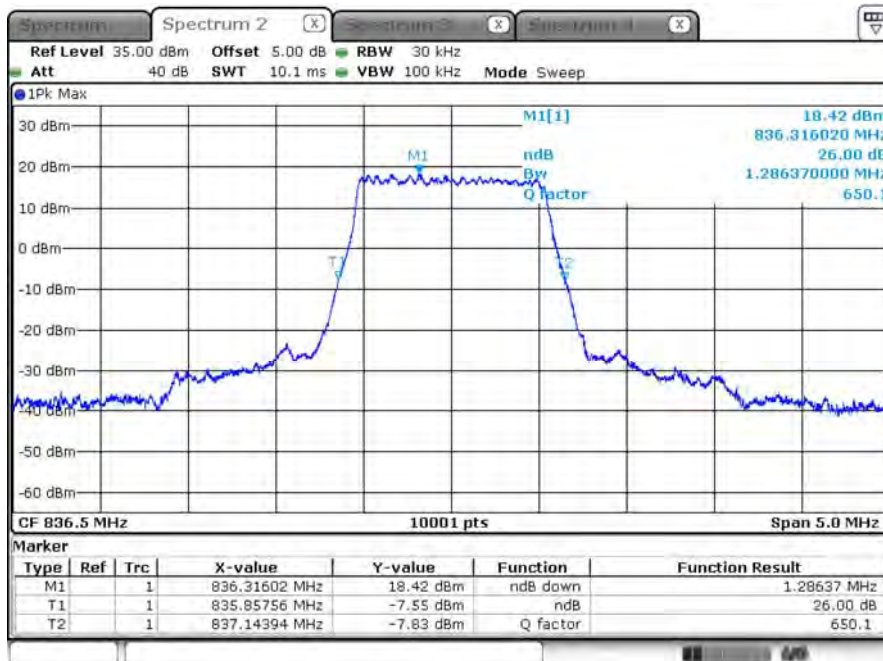
|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 1.4M_QPSK       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 1.286                        | 1.088                      | N/A         |

| 1.4M_16-QAM     |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 1.293                        | 1.093                      | N/A         |

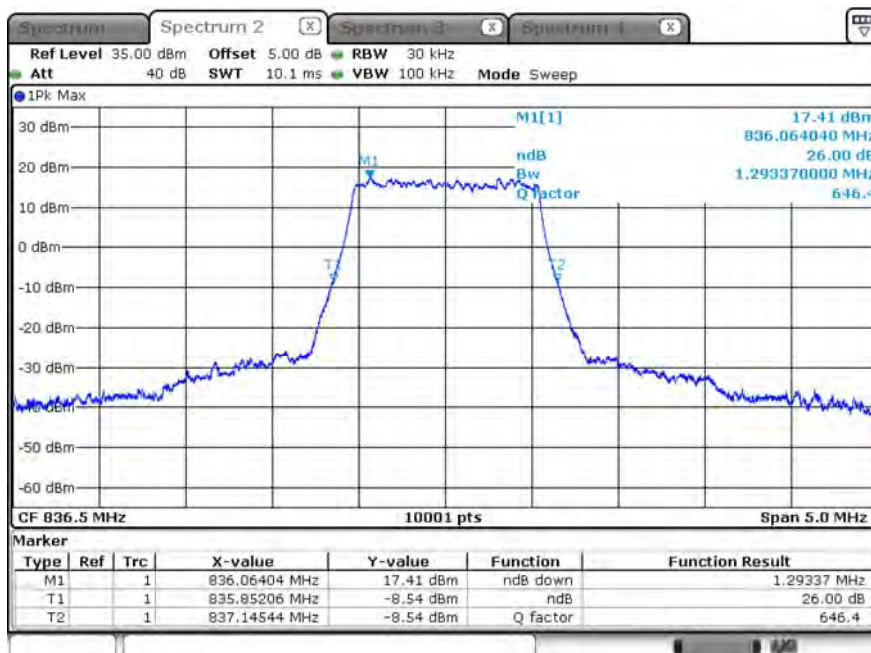


### -26dB BW\_CH20525\_1.4M\_QPSK\_6RB0



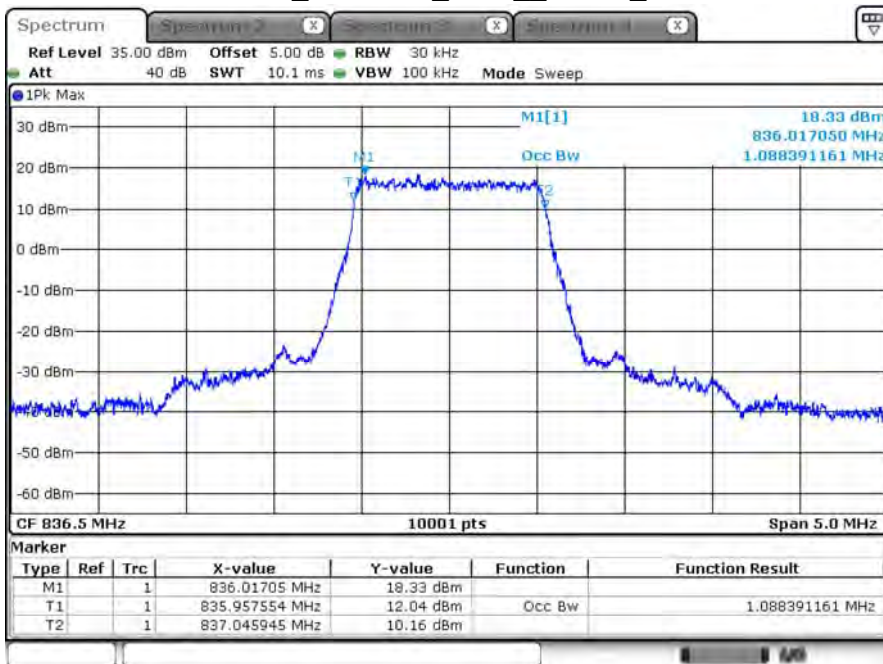
Date: 9.APR.2019 17:09:25

### -26dB BW\_CH20525\_1.4M\_16-QAM\_6RB0



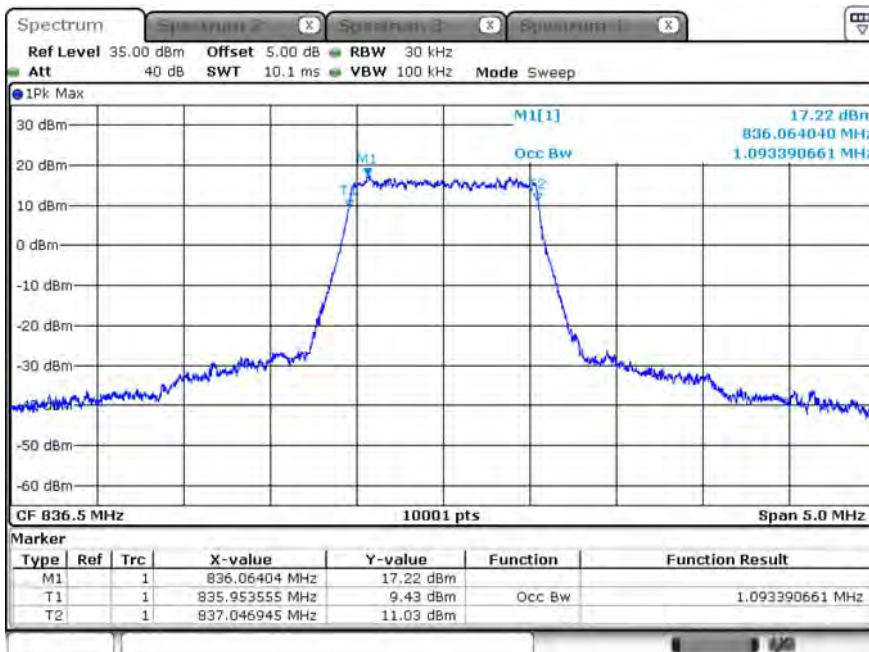
Date: 9.APR.2019 17:08:22

### 99% BW\_CH20525\_1.4M\_QPSK\_6RB0



Date: 9.APR.2019 17:03:34

### 99% BW\_CH20525\_1.4M\_16-QAM\_6RB0



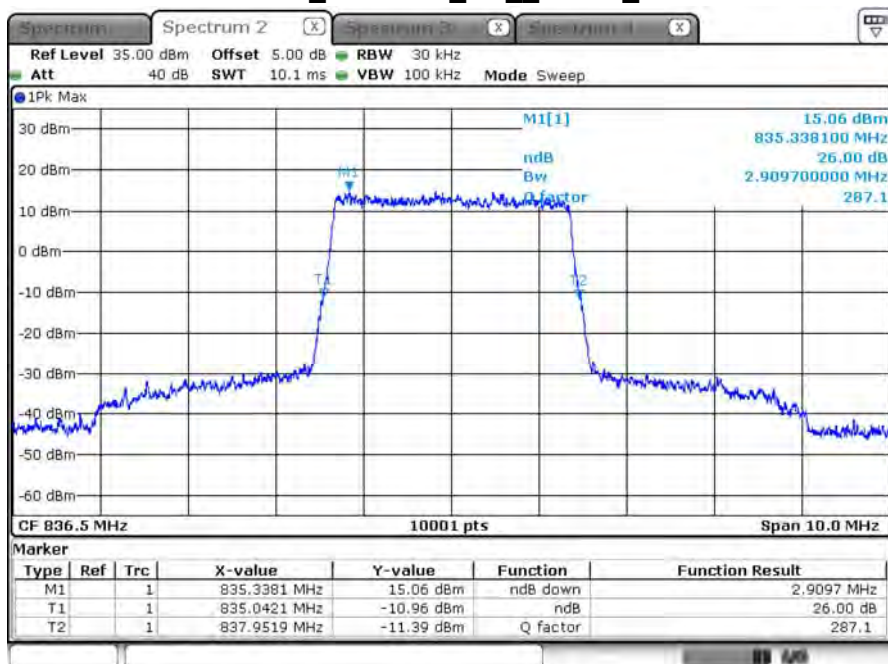
Date: 9.APR.2019 17:06:50

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 3M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 2.909                        | 2.679                      | N/A         |

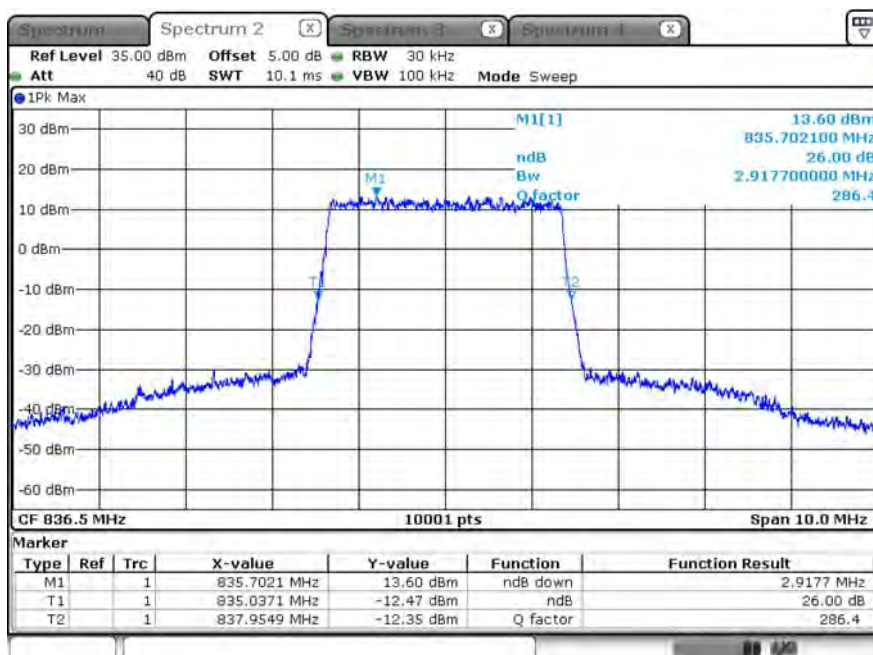
| 3M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 2.917                        | 2.681                      | N/A         |

### -26dB BW\_CH20525\_3M\_QPSK\_15RB0



Date: 9.APR.2019 17:31:17

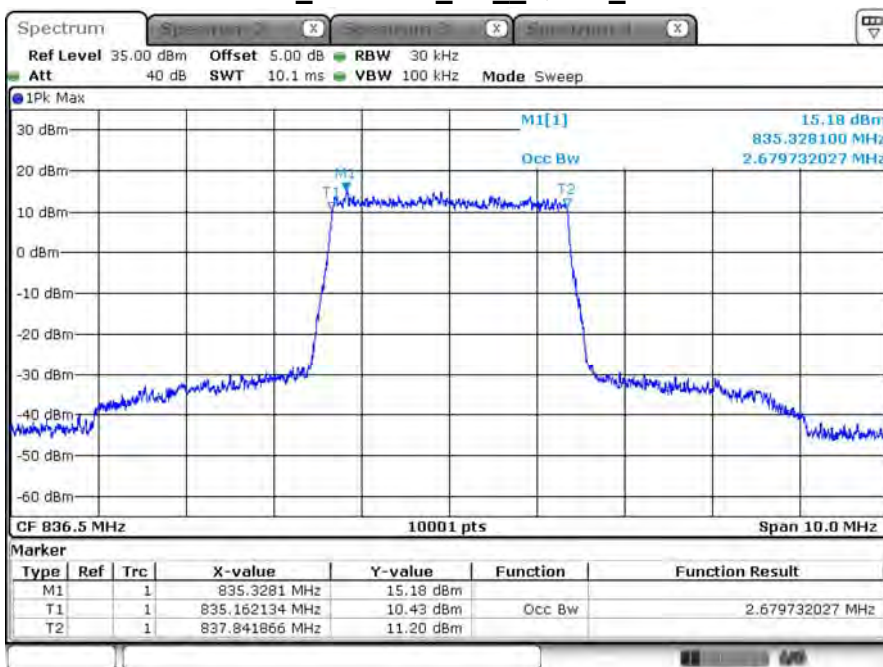
### -26dB BW\_CH20525\_3M\_16-QAM\_15RB0



Date: 9.APR.2019 17:27:05

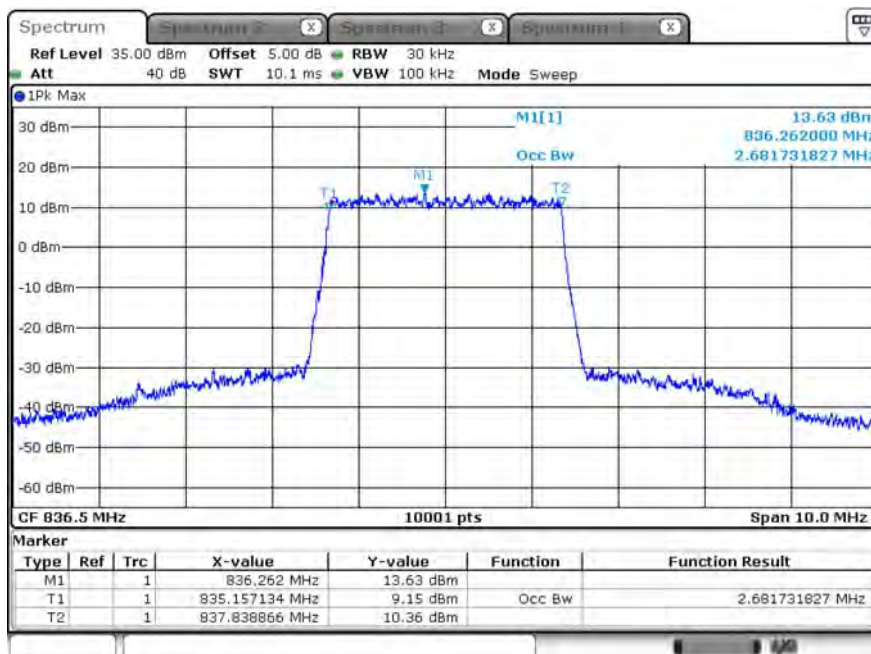


### 99% BW\_CH20525\_3M\_QPSK\_15RB0



Date: 9.APR.2019 17:25:43

### 99% BW\_CH20525\_3M\_16-QAM\_15RB0



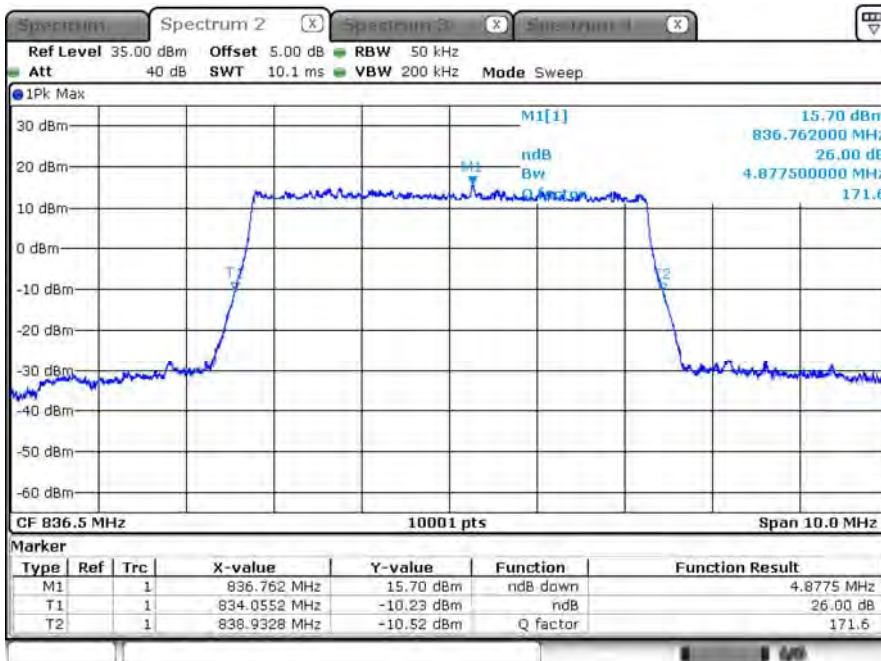
Date: 9.APR.2019 17:26:42

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 5M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 4.877                        | 4.478                      | N/A         |

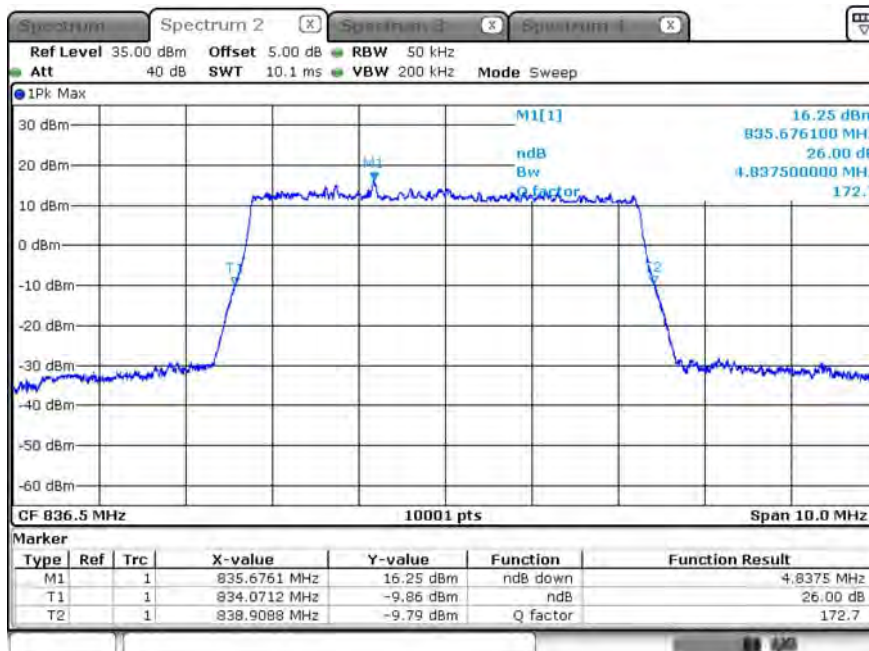
| 5M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 4.837                        | 4.464                      | N/A         |

### -26dB BW\_CH20525\_5M\_QPSK\_25RB0



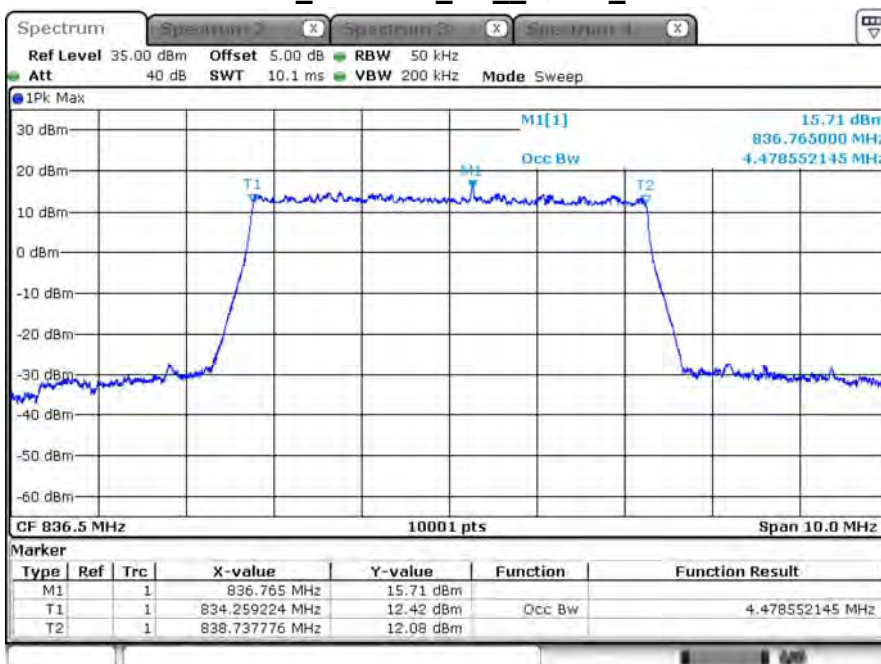
Date: 9 APR 2019 17:40:10

### -26dB BW\_CH20525\_5M\_16-QAM\_25RB0



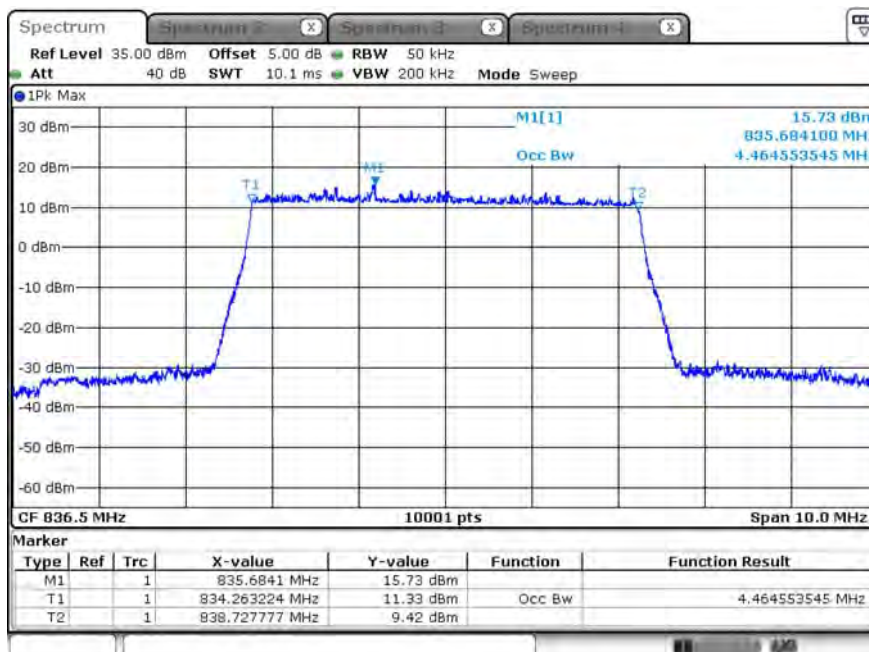
Date: 9 APR 2019 17:38:45

### 99% BW\_CH20525\_5M\_QPSK\_25RB0



Date: 9.APR.2019 17:37:01

### 99% BW\_CH20525\_5M\_16-QAM\_25RB0



Date: 9.APR.2019 17:37:44

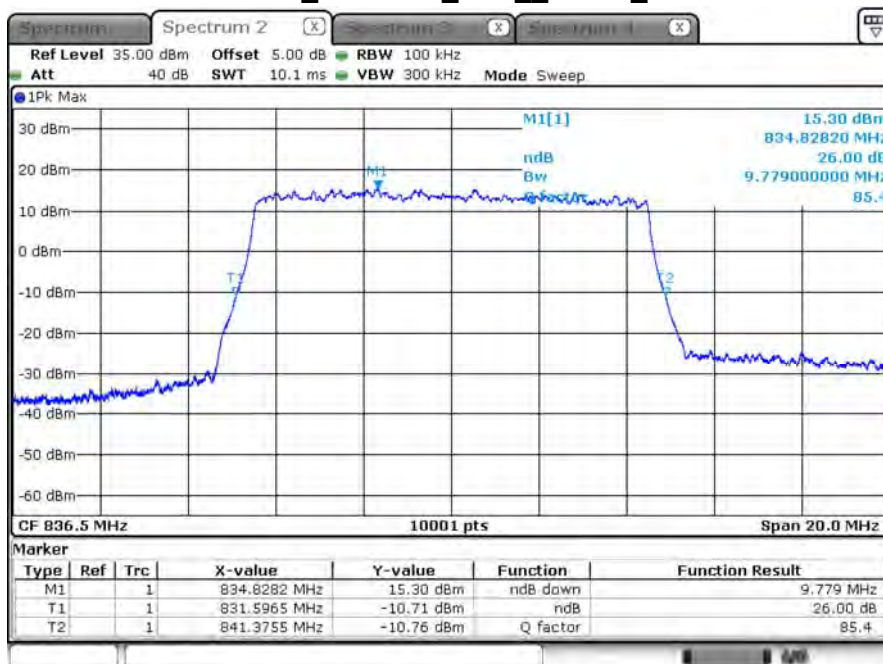


|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 10M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 9.779                        | 8.919                      | N/A         |

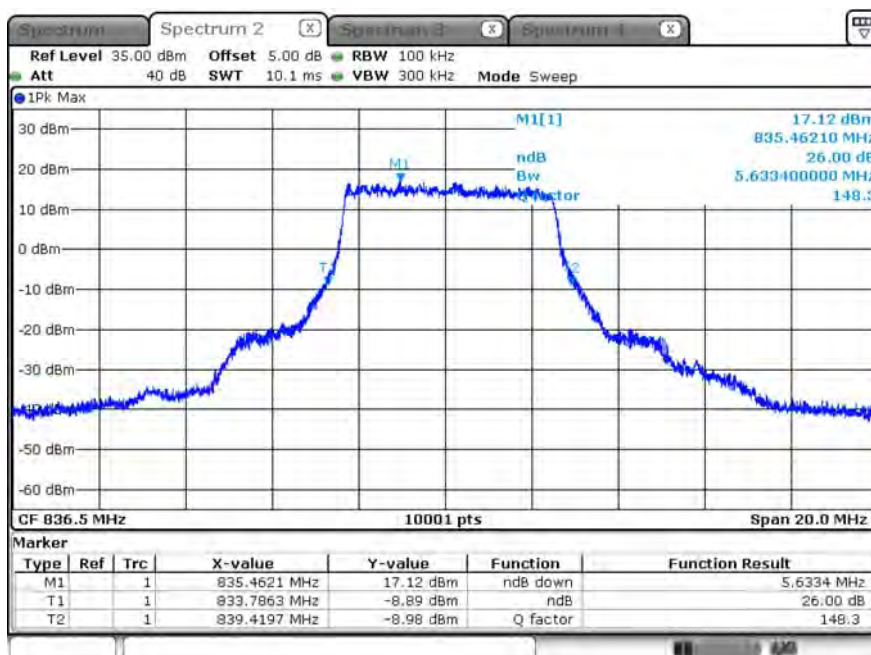
| 10M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 836.5           | 5.633                        | 4.897                      | N/A         |

### -26dB BW\_CH20525\_10M\_QPSK\_50RB0



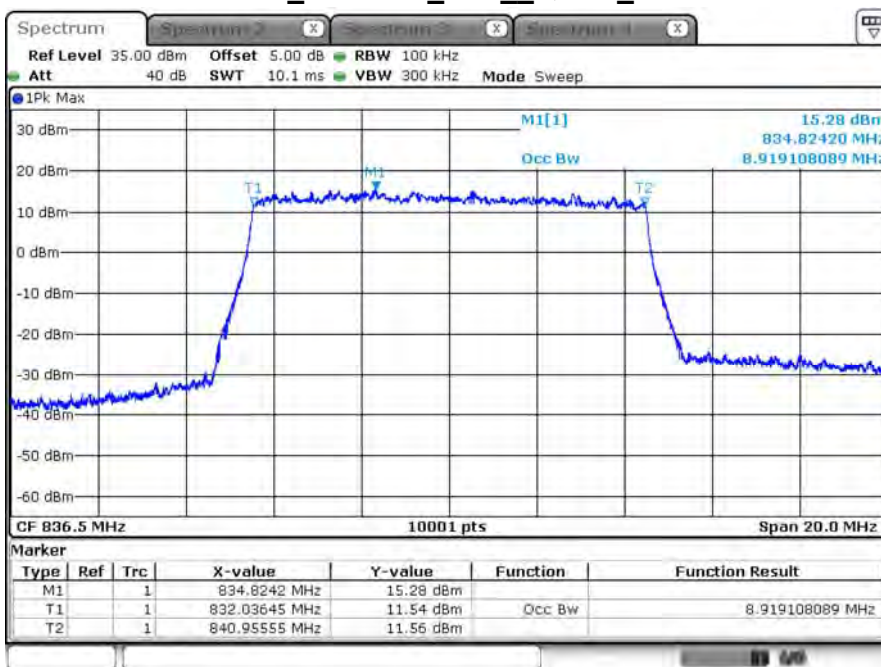
Date: 9.APR.2019 17:53:51

### -26dB BW\_CH20525\_10M\_16-QAM\_27RB12



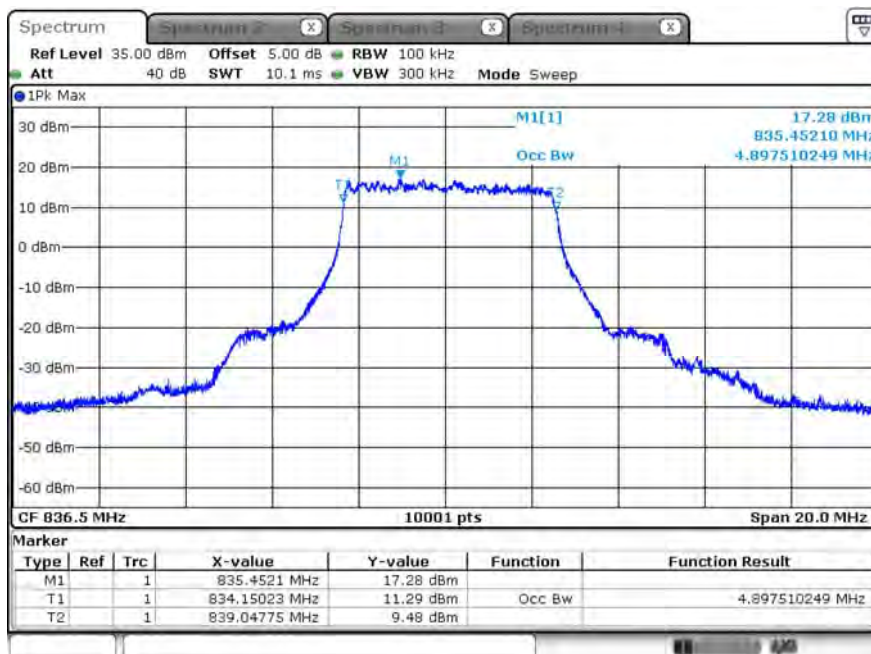
Date: 9.APR.2019 17:59:25

### 99% BW\_CH20525\_10M\_QPSK\_50RB0



Date: 9.APR.2019 17:48:13

### 99% BW\_CH20525\_10M\_16-QAM\_27RB12



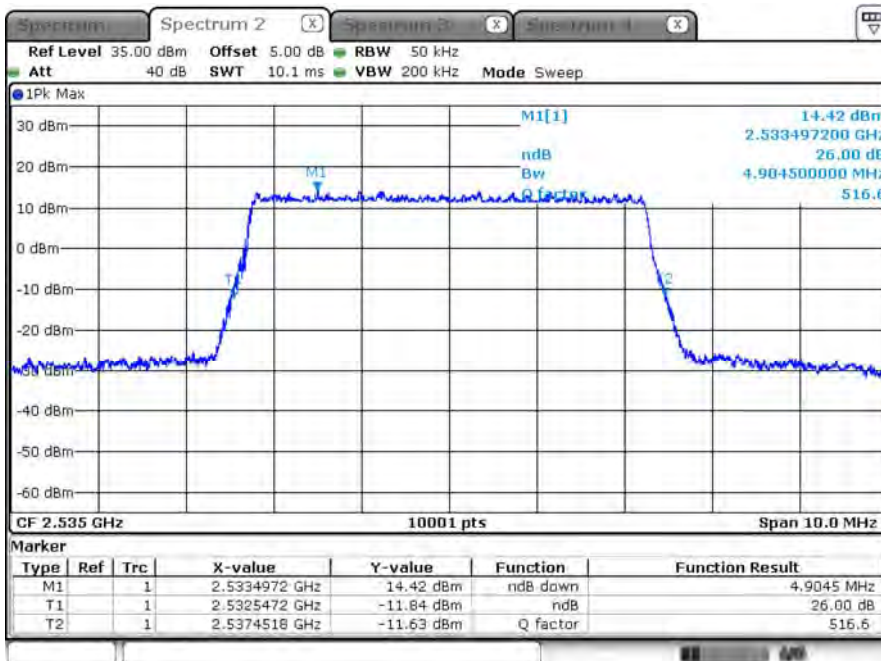
Date: 9.APR.2019 17:58:45

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 5M_QPSK         |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 4.904                        | 4.488                      | N/A         |

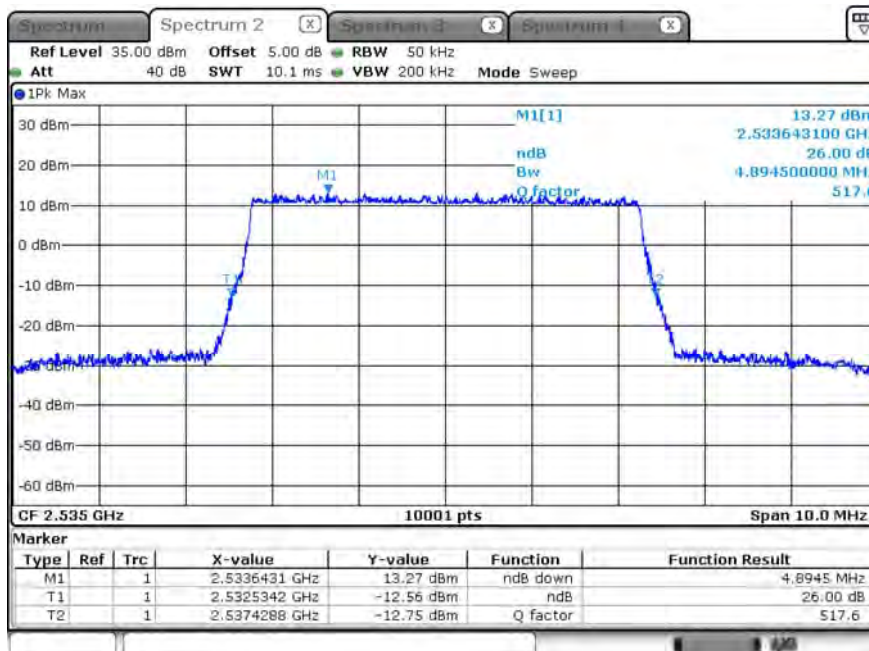
| 5M_16-QAM       |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 4.894                        | 4.478                      | N/A         |

### -26dB BW\_CH21100\_5M\_QPSK\_25RB0



Date: 9 APR 2019 18:20:47

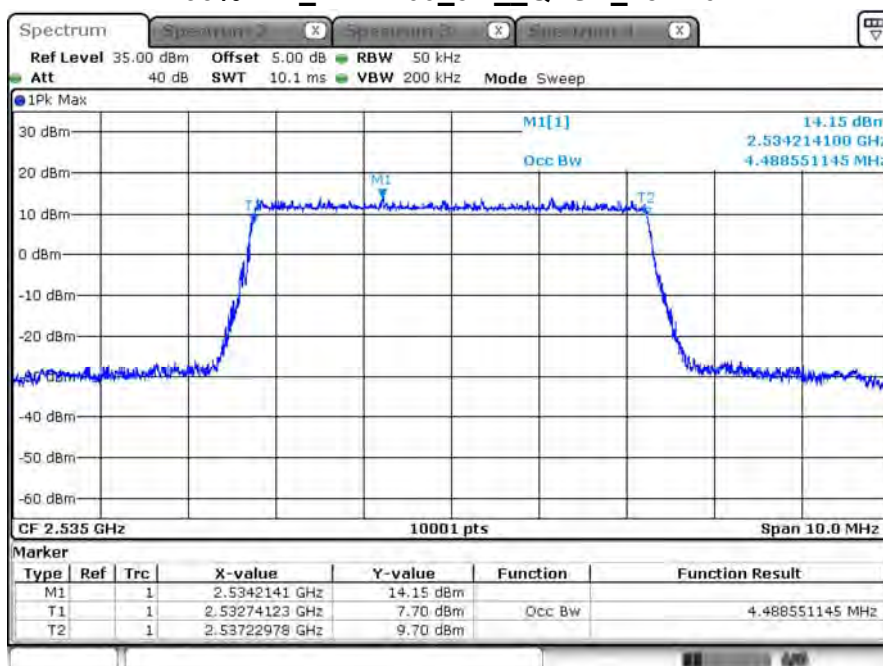
### -26dB BW\_CH21100\_5M\_16-QAM\_25RB0



Date: 9 APR 2019 18:19:50

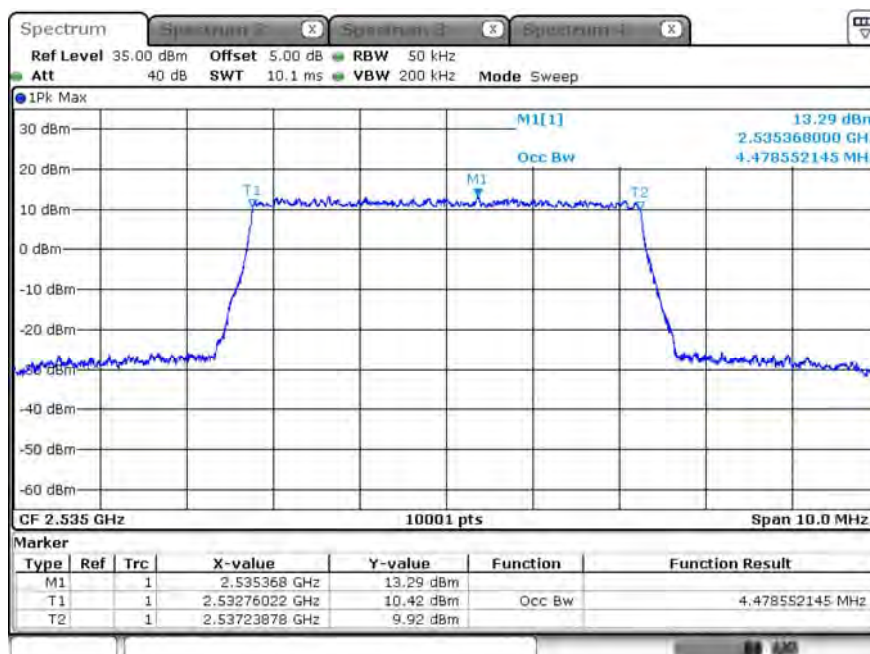


### 99% BW\_CH21100\_5M\_QPSK\_25RB0



Date: 9 APR 2019 18:17:32

### 99% BW\_CH21100\_5M\_16-QAM\_25RB0



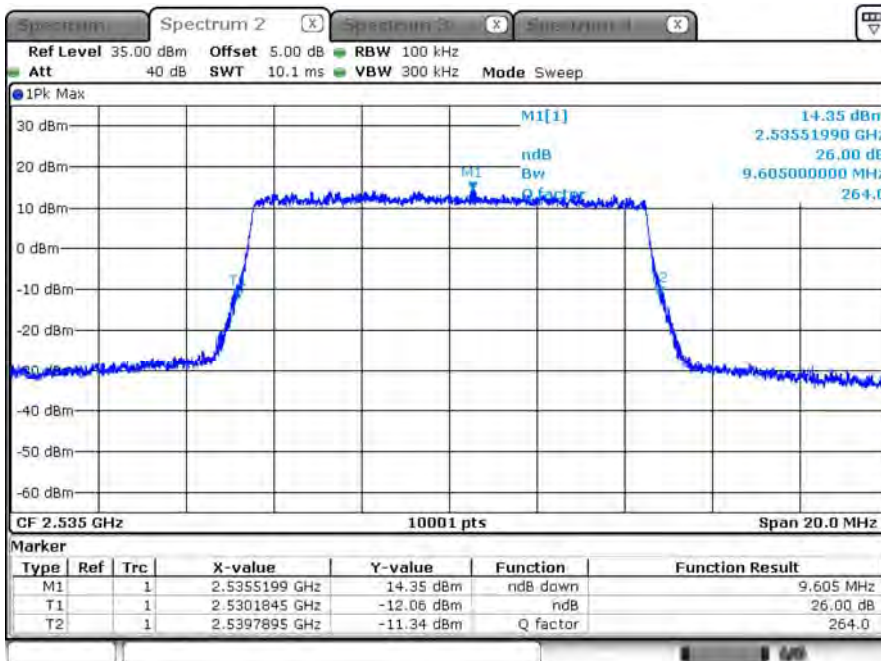
Date: 9 APR 2019 18:18:56

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 10M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 9.605                        | 8.927                      | N/A         |

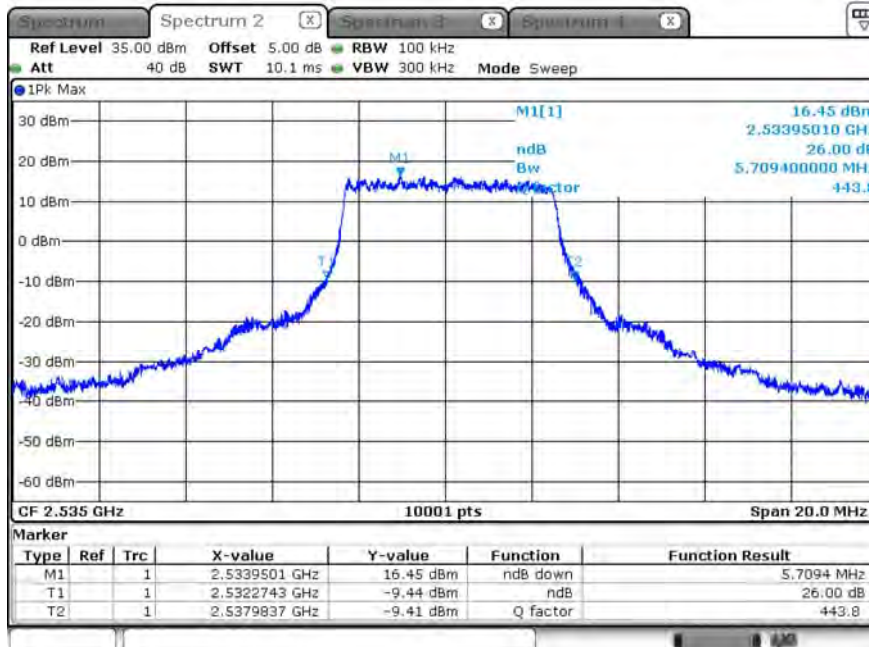
| 10M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 5.709                        | 4.883                      | N/A         |

### -26dB BW\_CH21100\_10M\_QPSK\_50RB0



Date: 9.APR.2019 18:25:34

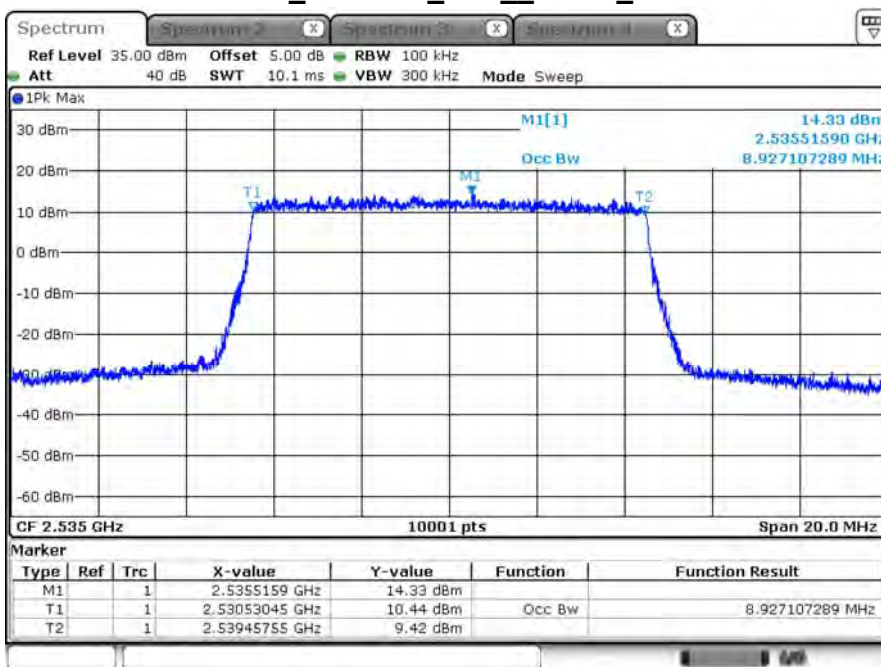
### -26dB BW\_CH21100\_10M\_16-QAM\_27RB12



Date: 9.APR.2019 18:23:27

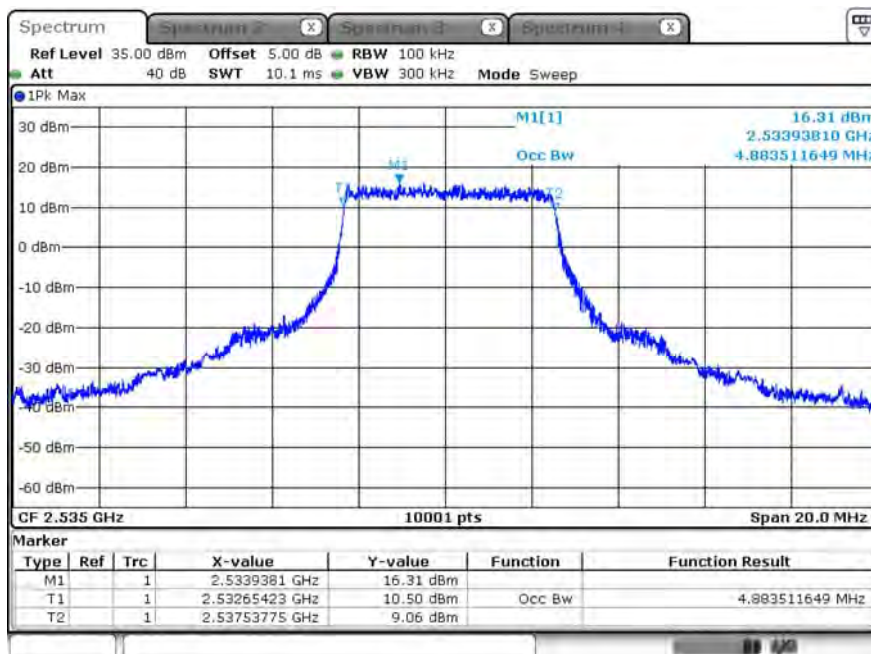


### 99% BW\_CH21100\_10M\_QPSK\_50RB0



Date: 9 APR 2019 18:24:51

### 99% BW\_CH21100\_10M\_16-QAM\_27RB12



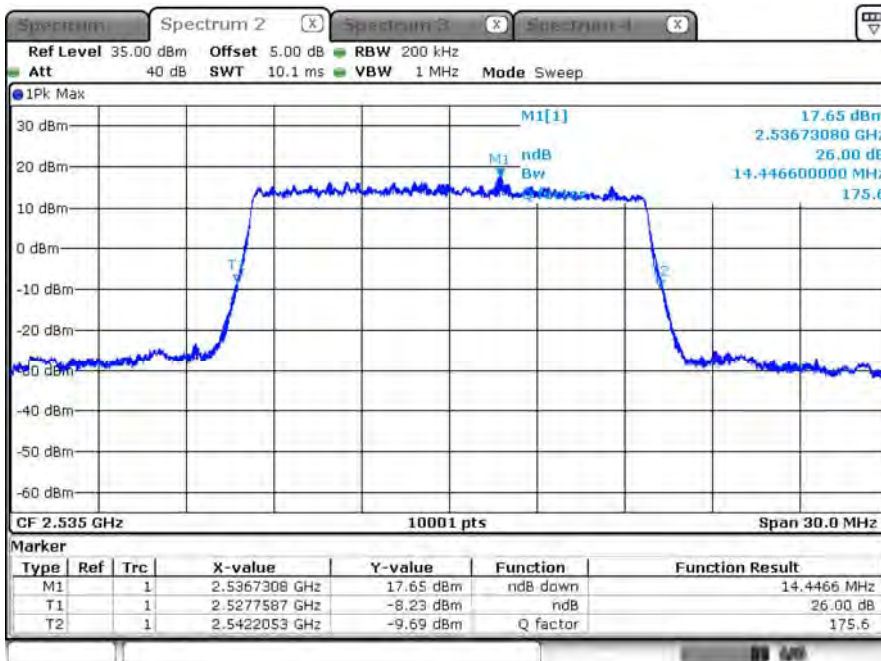
Date: 9 APR 2019 18:22:24

|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 15M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 14.446                       | 13.396                     | N/A         |

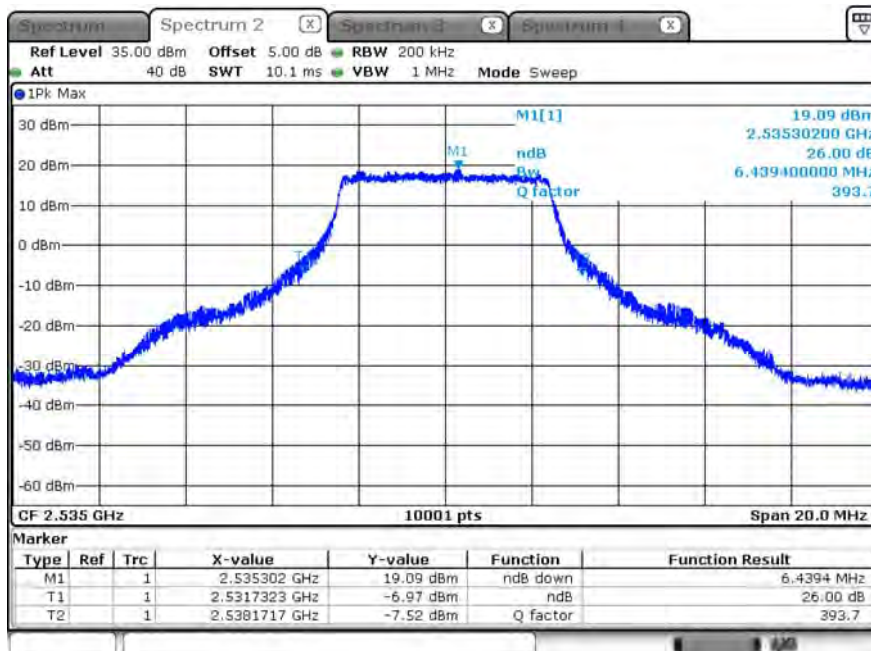
| 15M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 6.439                        | 5.095                      | N/A         |

### -26dB BW\_CH21100\_15M\_QPSK\_75RB0



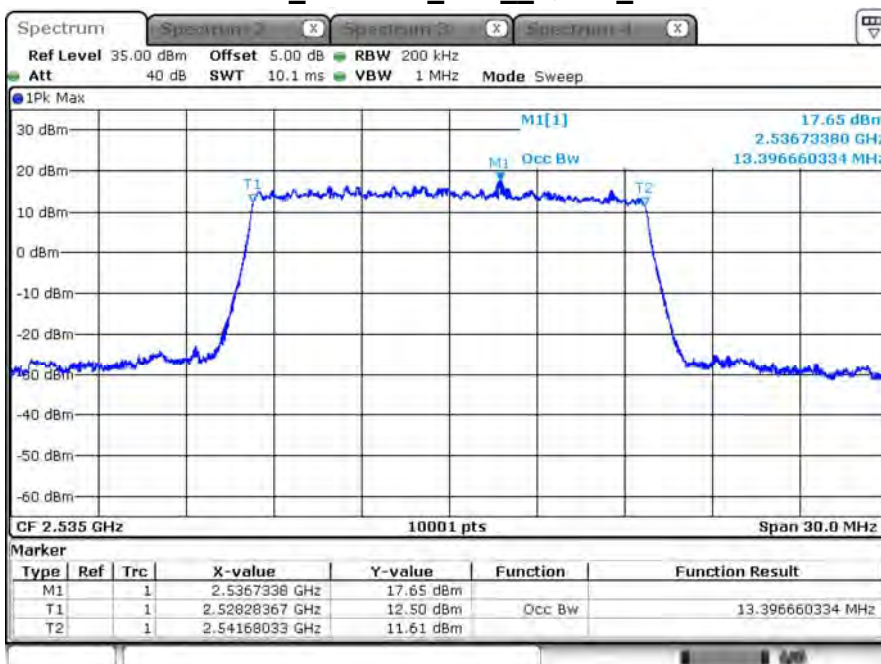
Date: 9 APR 2019 18:30:15

### -26dB BW\_CH21100\_15M\_16-QAM\_27RB24



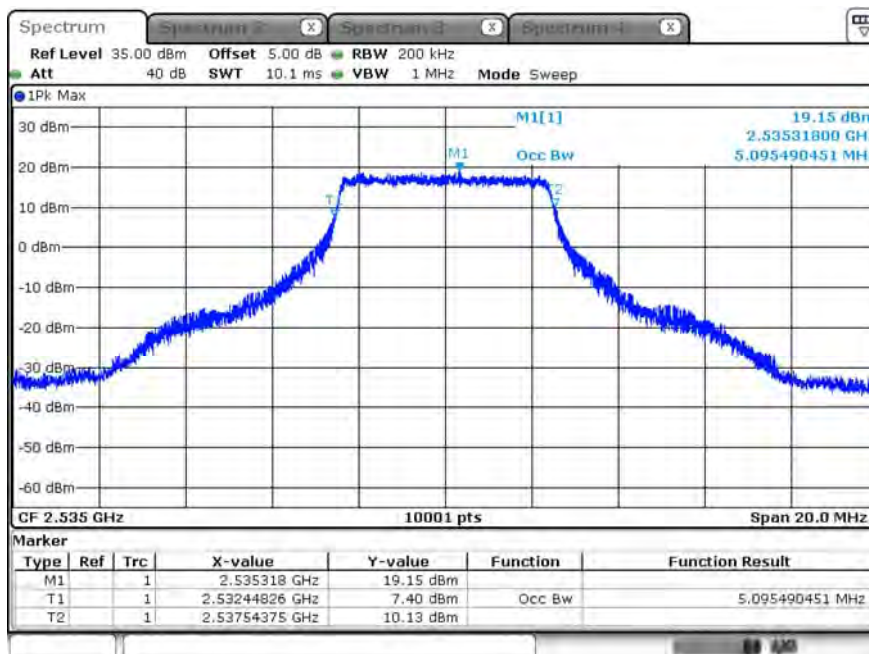
Date: 9 APR 2019 18:36:50

### 99% BW\_CH21100\_15M\_QPSK\_75RB0



Date: 9 APR 2019 18:28:52

### 99% BW\_CH21100\_15M\_16-QAM\_27RB24



Date: 9 APR 2019 18:36:04

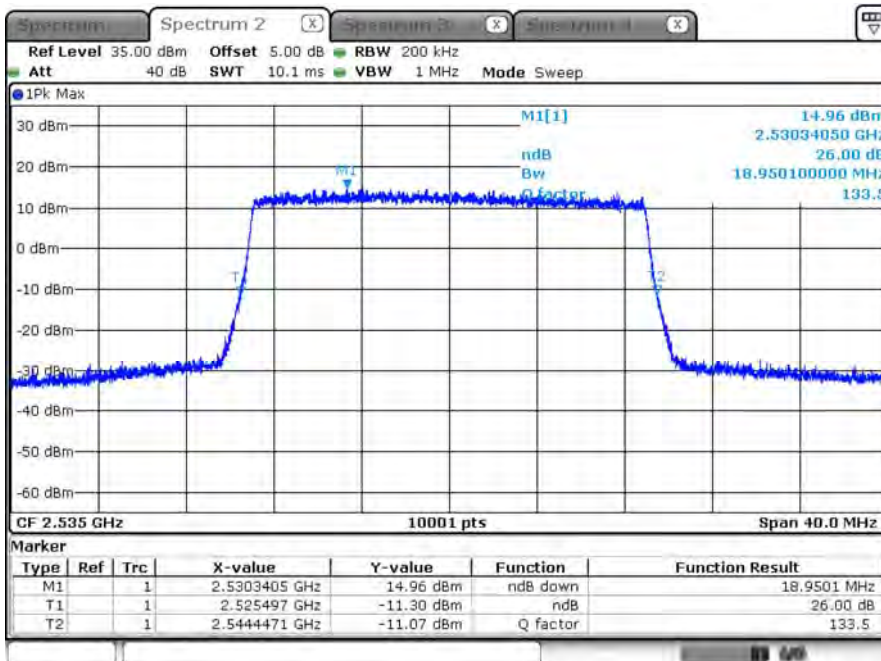
|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 4: LTE Band 7 |           |        |
| Date of Test | 2019/04/09         | Test Site | SR10-H |

| 20M_QPSK        |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 18.950                       | 17.826                     | N/A         |

| 20M_16-QAM      |                              |                            |             |
|-----------------|------------------------------|----------------------------|-------------|
| Frequency (MHz) | -26dB BW Measure Level (MHz) | 99% BW Measure Level (MHz) | Limit (MHz) |
| 2535.0          | 6.603                        | 5.183                      | N/A         |

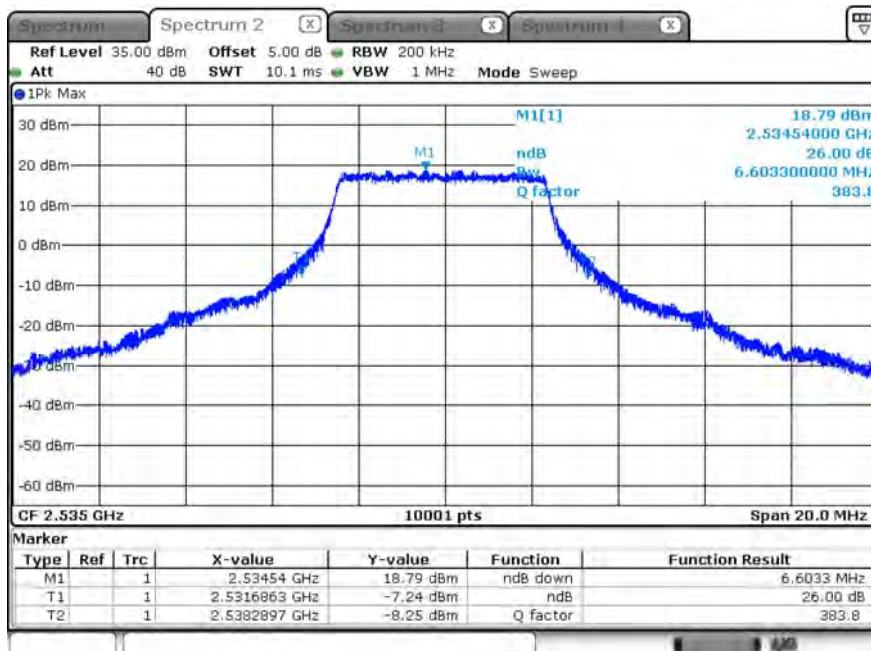


### -26dB BW\_CH21100\_20M\_QPSK\_100RB0



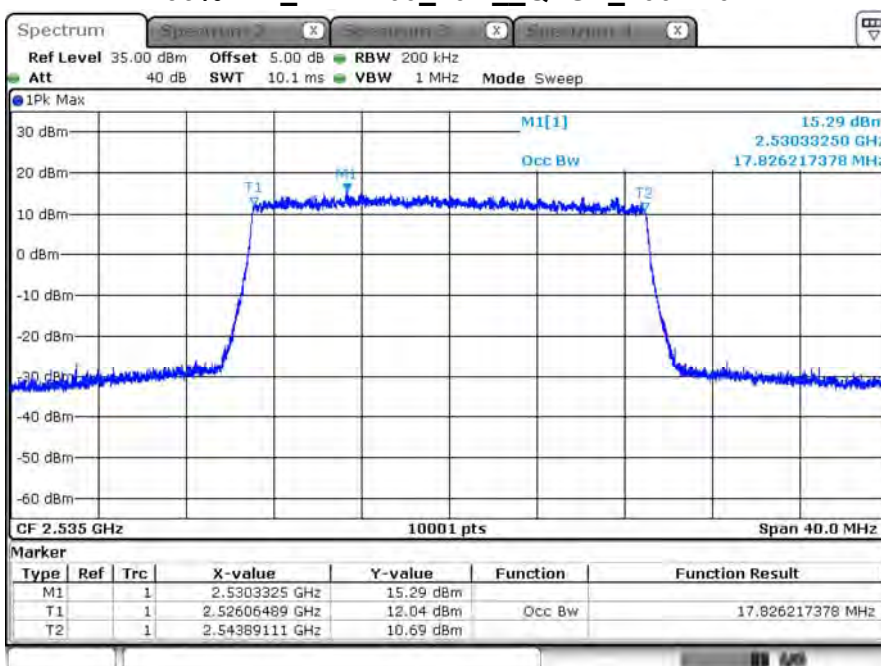
Date: 9 APR 2019 18:41:44

### -26dB BW\_CH21100\_20M\_16-QAM\_27RB36



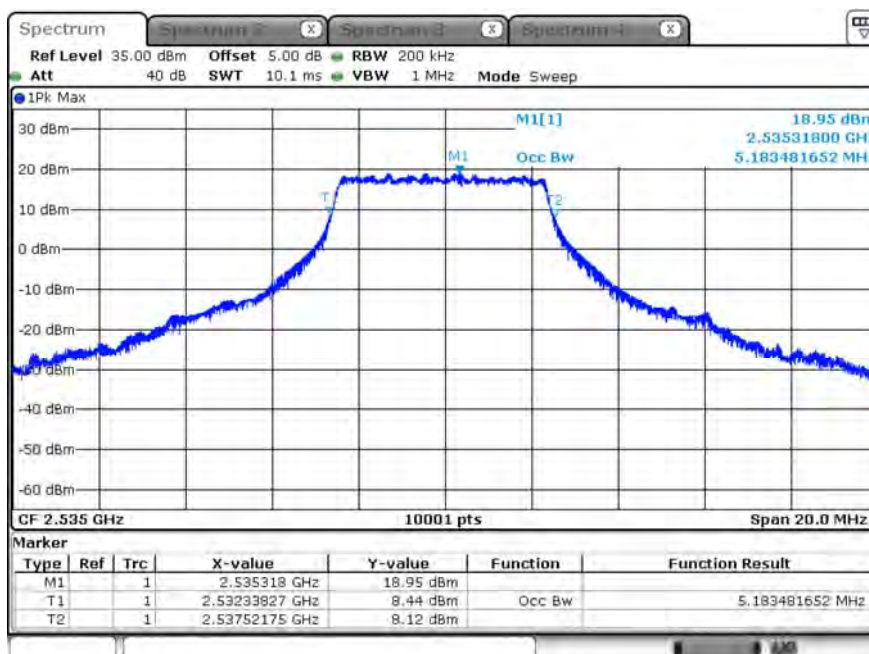
Date: 9 APR 2019 18:39:22

### 99% BW\_CH21100\_20M\_QPSK\_100RB0



Date: 9 APR 2019 18:40:28

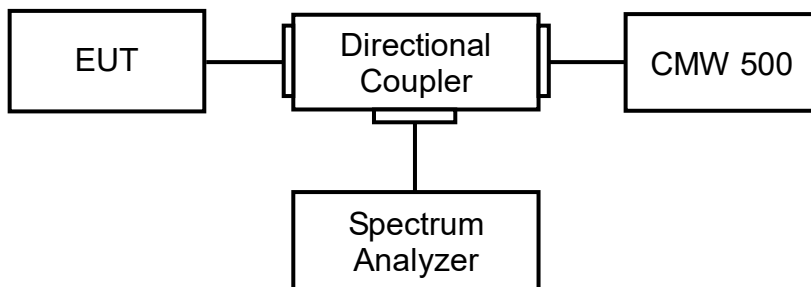
### 99% BW\_CH21100\_20M\_16-QAM\_27RB36



Date: 9 APR 2019 18:38:38

## 5. Peak To Average Ratio

### 5.1. Test Setup



### 5.2. Test Procedure

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1 %.

### 5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2  
ANSI C63.26: 2015 Sub-clause 5.2.3.4

### 5.4. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13dB.



### 5.5. Test Result

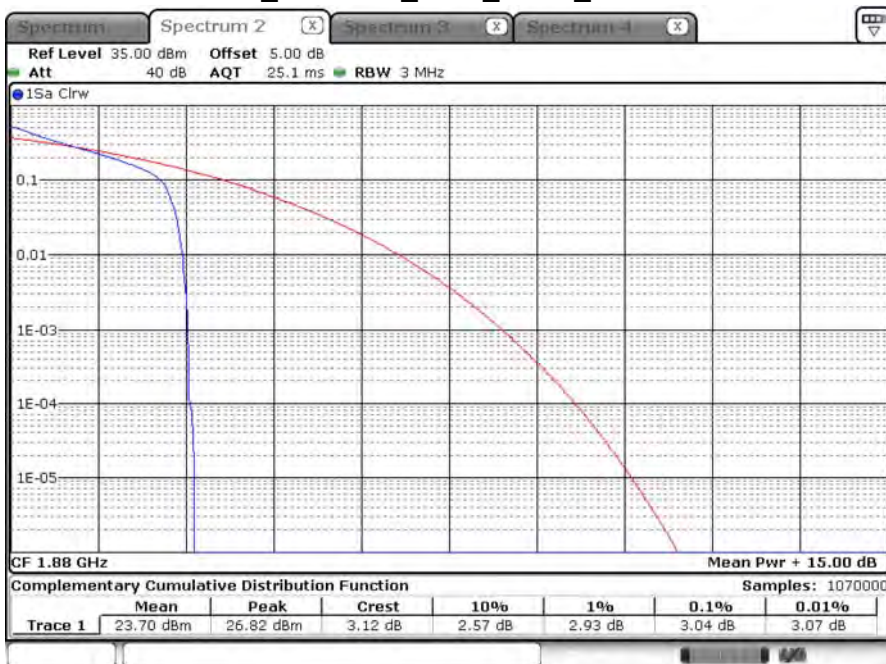
|              |                       |           |        |
|--------------|-----------------------|-----------|--------|
| Product      | Module                |           |        |
| Test Item    | Peak To Average Ratio |           |        |
| Test Mode    | Mode 1: LTE Band 2    |           |        |
| Date of Test | 2019/04/10            | Test Site | SR10-H |

#### B2\_CH18607\_1.4M\_1RB2\_QPSK



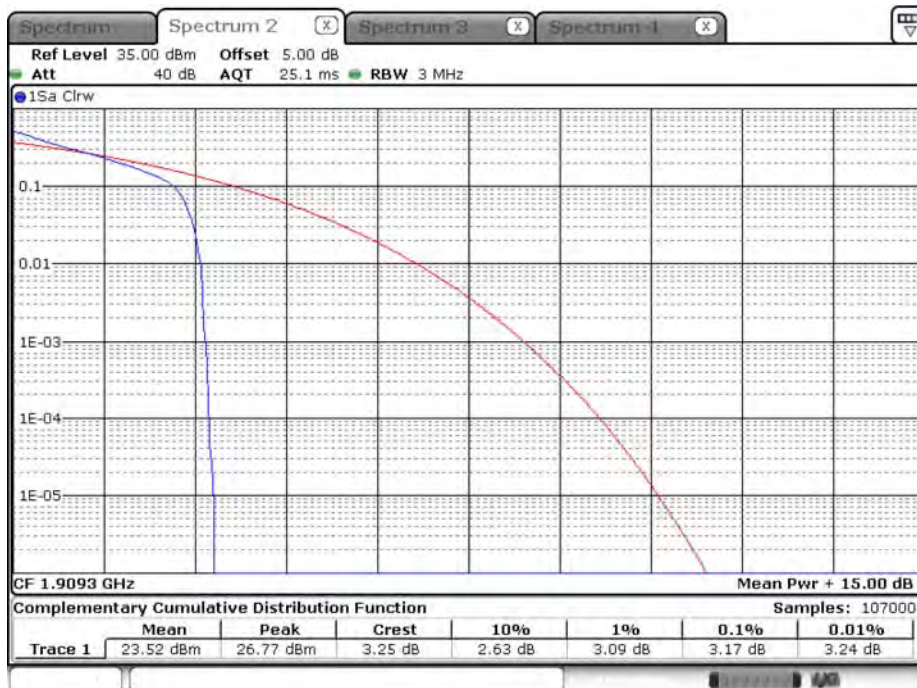
Date: 10 APR.2019 12:34:42

#### B2\_CH18900\_1.4M\_1RB2\_QPSK



Date: 10 APR.2019 14:35:12

### B2\_CH19193\_1.4M\_1RB2\_QPSK



Date: 10 APR 2019 14:42:02

### B2\_CH18607\_1.4M\_1RB2\_16-QAM



Date: 10 APR 2019 12:35:26

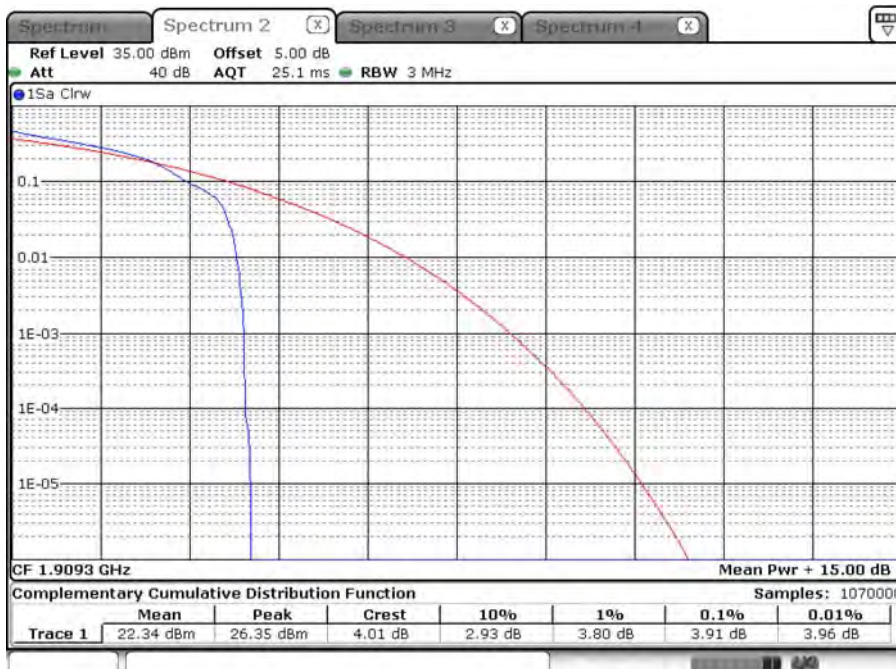


### B2\_CH18900\_1.4M\_1RB2\_16-QAM\_



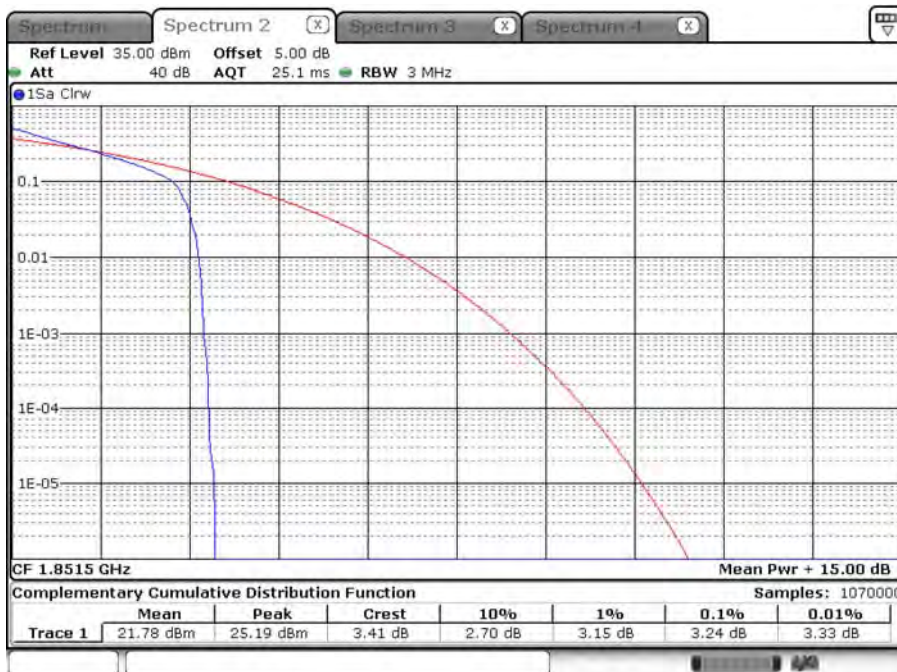
Date: 10.APR 2019 14:34:35

### B2\_CH19193\_1.4M\_1RB2\_16-QAM



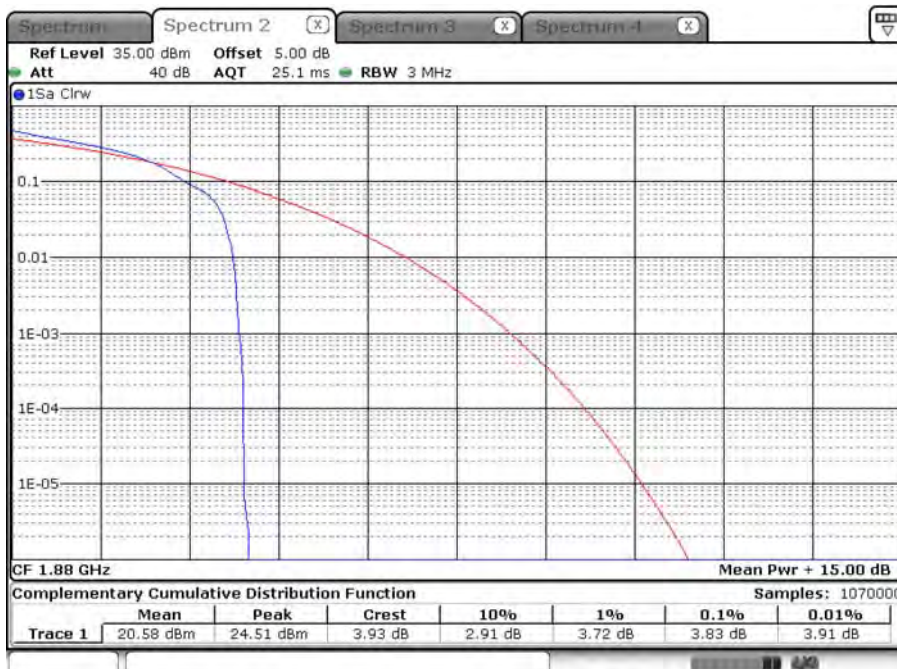
Date: 10.APR 2019 14:42:44

### B2\_CH18615\_3M\_1RB7\_QPSK



Date: 10.APR 2019 14:53:08

### B2\_CH18900\_3M\_1RB7\_QPSK



Date: 10.APR 2019 15:00:47

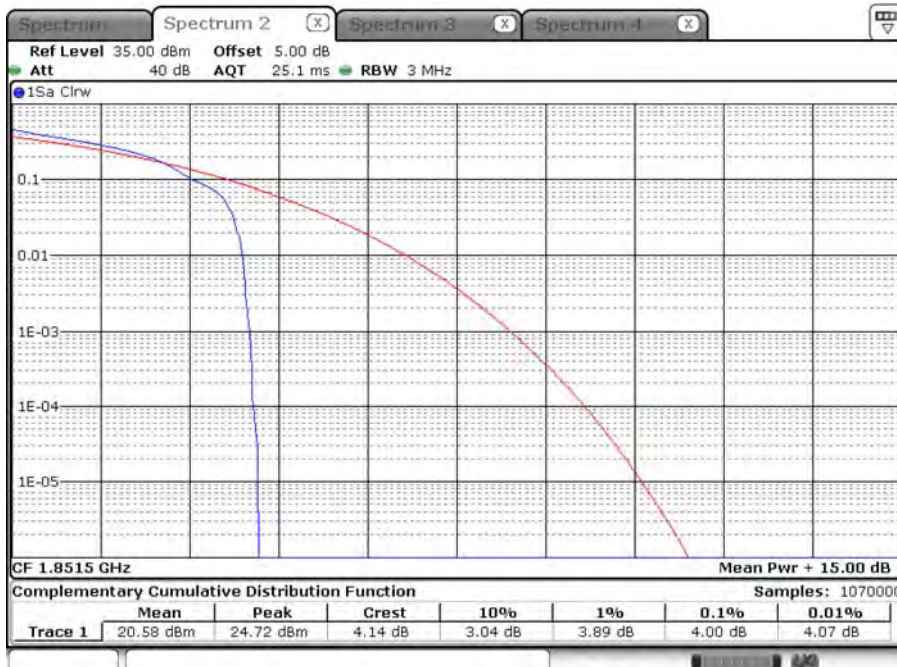


### B2\_CH19185\_3M\_1RB7\_QPSK



Date: 10.APR 2019 15:51:25

### B2\_CH18615\_3M\_1RB7\_16-QAM



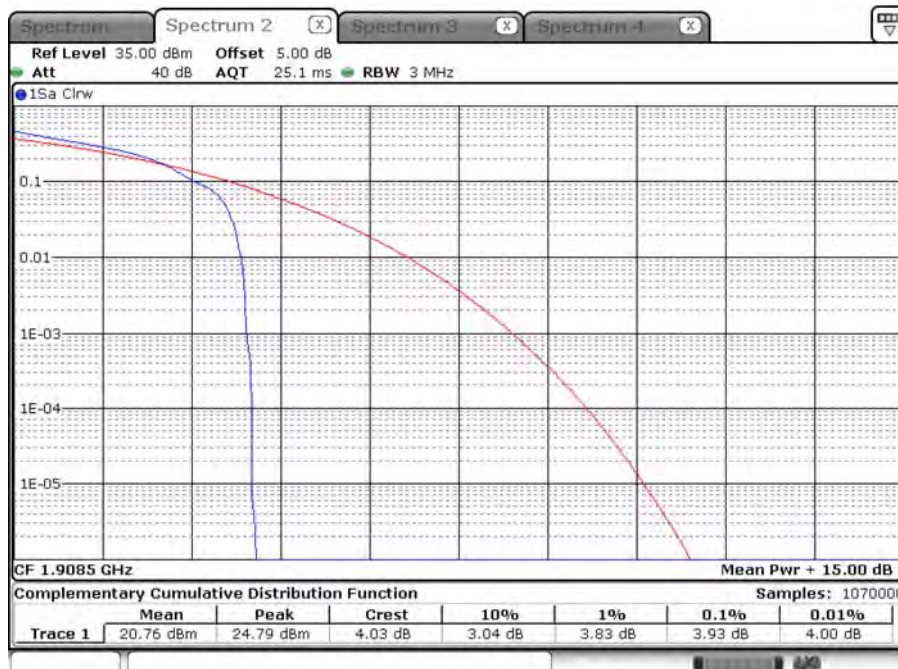
Date: 10.APR 2019 14:55:01

### B2\_CH18900\_3M\_1RB7\_16-QAM



Date: 10.APR 2019 15:00:14

### B2\_CH19185\_3M\_1RB7\_16-QAM



Date: 10.APR 2019 15:50:36

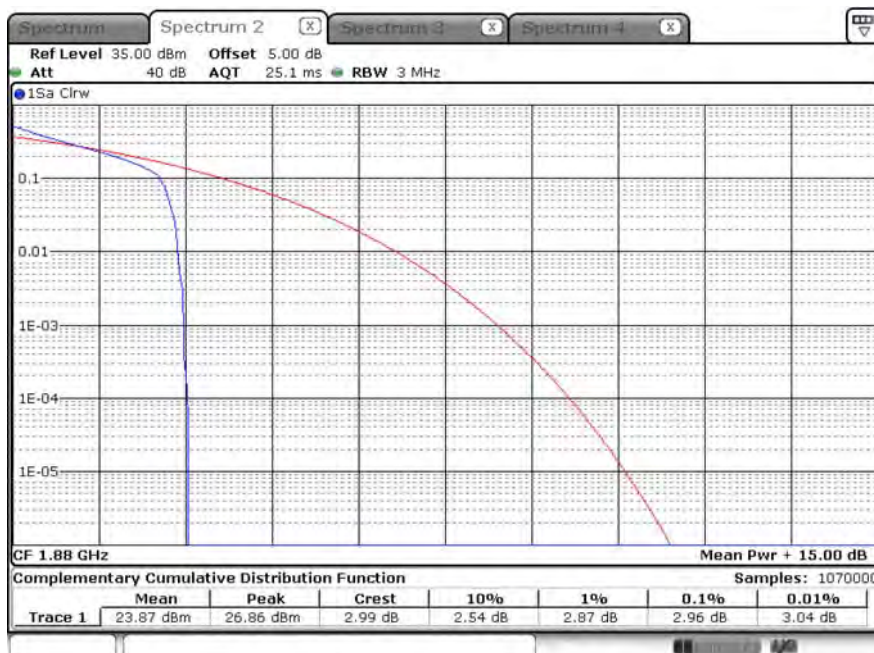


### B2\_CH18625\_5M\_1RB12\_QPSK



Date: 11.APR.2019 12:46:59

### B2\_CH18900\_5M\_1RB12\_QPSK



Date: 11.APR.2019 12:49:16

### B2\_CH19175\_5M\_1RB12\_QPSK



Date: 11.APR.2019 12:49:52

### B2\_CH18625\_5M\_1RB12\_16-QAM



Date: 11.APR.2019 12:47:24

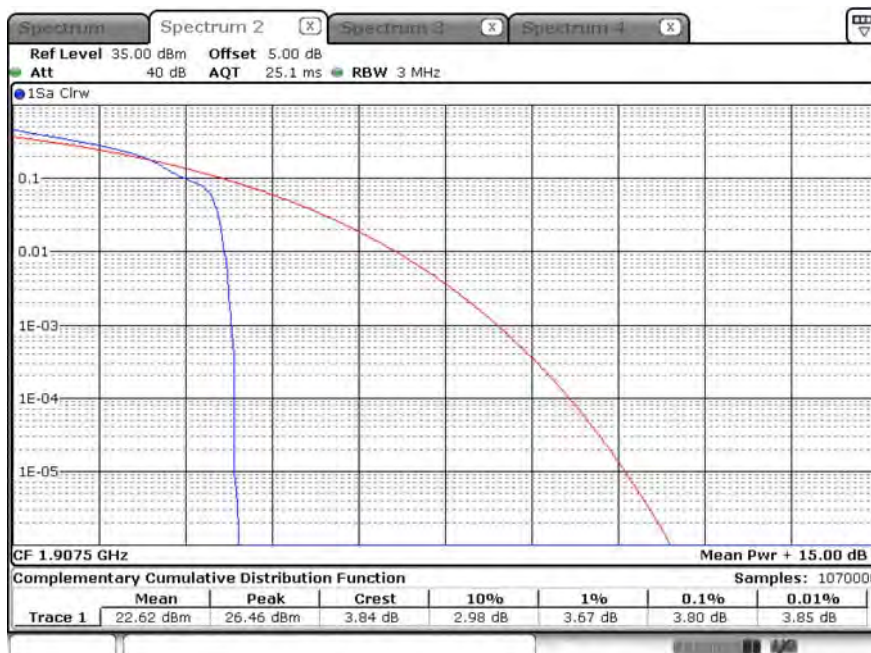


### B2\_CH18900\_5M\_1RB12\_16-QAM



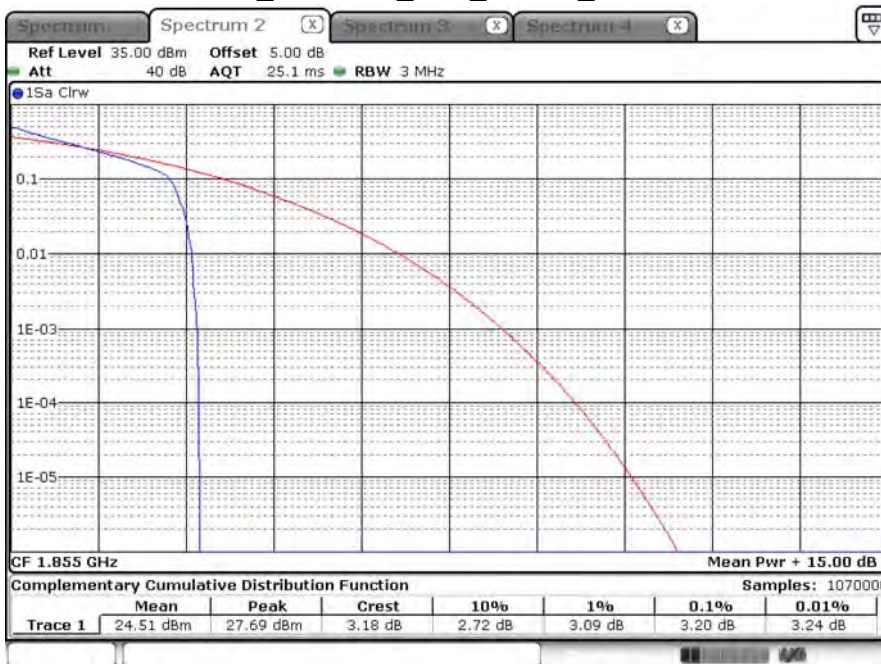
Date: 11.APR.2019 12:49:00

### B2\_CH19175\_5M\_1RB12\_16-QAM



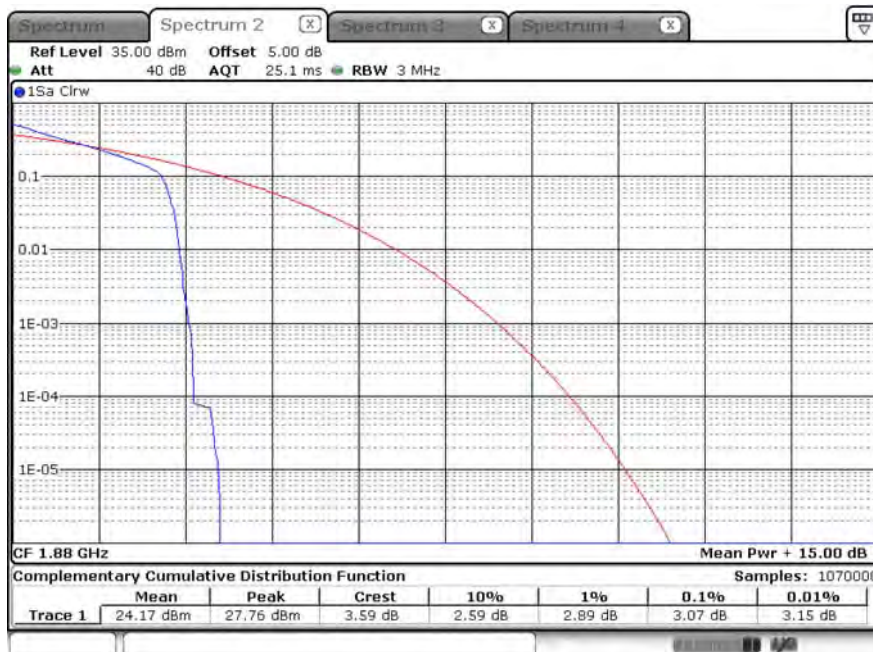
Date: 11.APR.2019 12:50:13

### B2\_CH18650\_10M\_1RB24\_QPSK



Date: 11.APR.2019 14:34:15

### B2\_CH18900\_10M\_1RB24\_QPSK



Date: 11.APR.2019 14:41:22



### B2\_CH19150\_10M\_1RB24\_QPSK



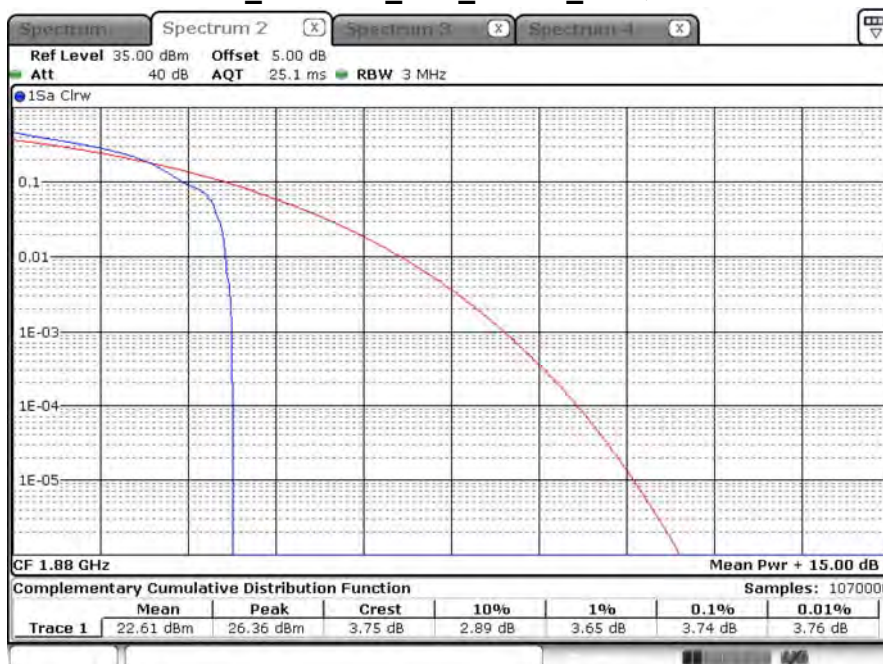
Date: 11.APR.2019 15:18:39

### B2\_CH18650\_10M\_1RB24\_16-QAM



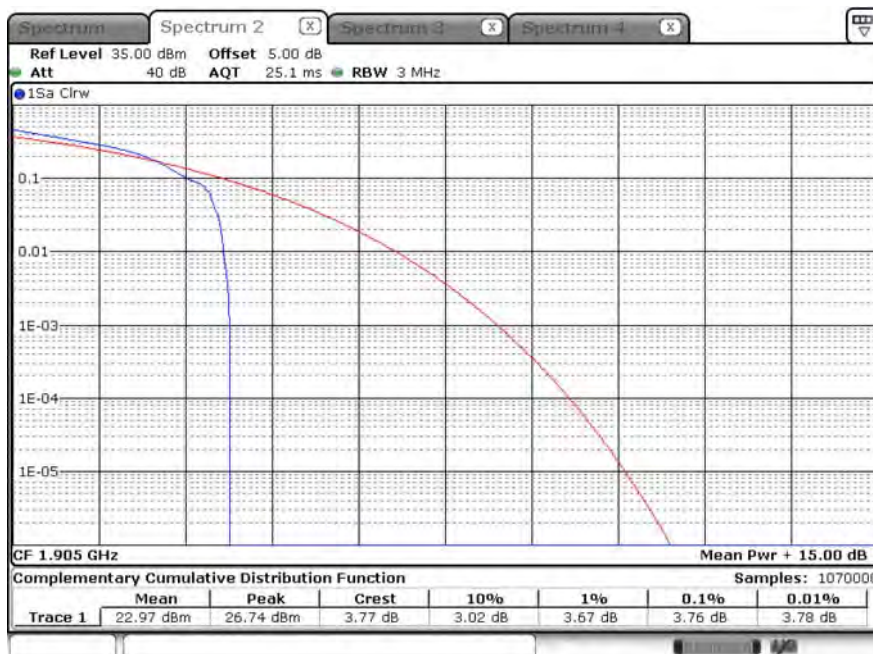
Date: 11.APR.2019 14:29:45

### B2\_CH18900\_10M\_1RB24\_16-QAM



Date: 11.APR.2019 15:17:11

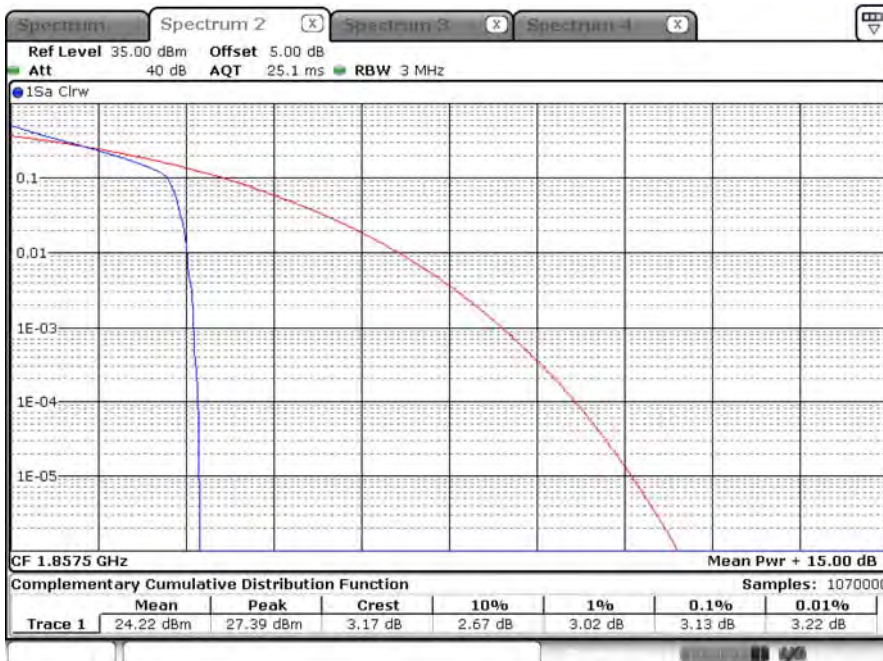
### B2\_CH19150\_10M\_1RB24\_16-QAM



Date: 11.APR.2019 15:18:13



### B2\_CH18675\_15M\_1RB37\_QPSK



Date: 11.APR.2019 16:09:24

### B2\_CH18900\_15M\_1RB37\_QPSK



Date: 11.APR.2019 16:12:54

### B2\_CH19125\_15M\_1RB37\_QPSK



Date: 11.APR.2019 16:14:58

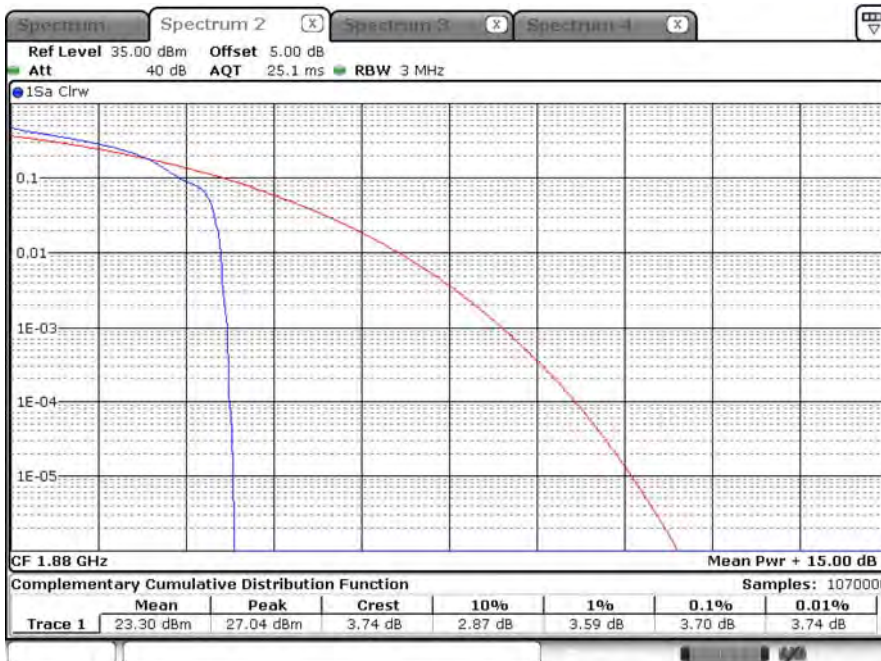
### B2\_CH18675\_15M\_1RB37\_16-QAM



Date: 11.APR.2019 16:10:23



### B2\_CH18900\_15M\_1RB37\_16-QAM



Date: 11.APR.2019 16:12:01

### B2\_CH19125\_15M\_1RB37\_16-QAM



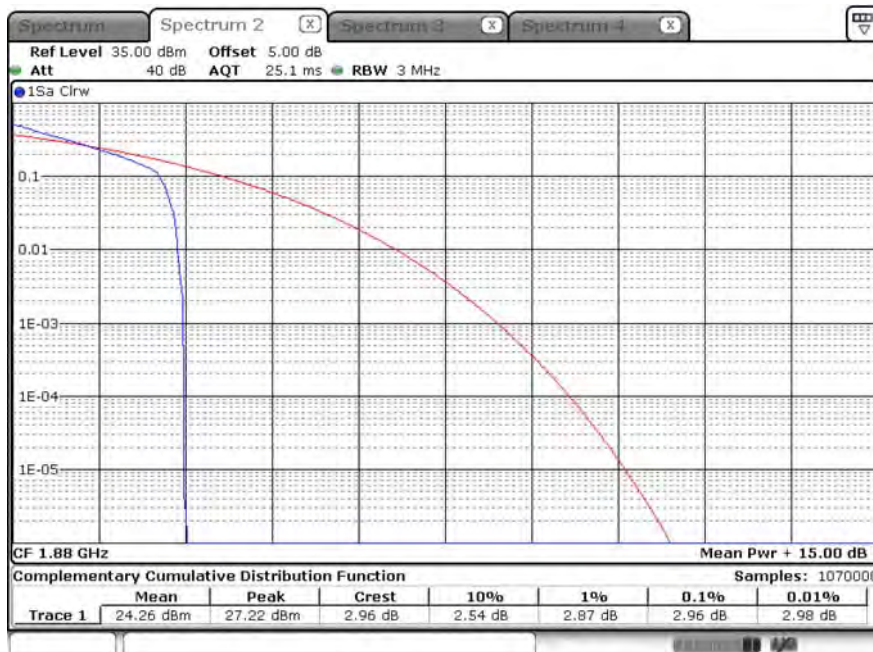
Date: 11.APR.2019 16:18:15

### B2\_CH18700\_20M\_1RB49\_QPSK



Date: 11.APR.2019 16:37:29

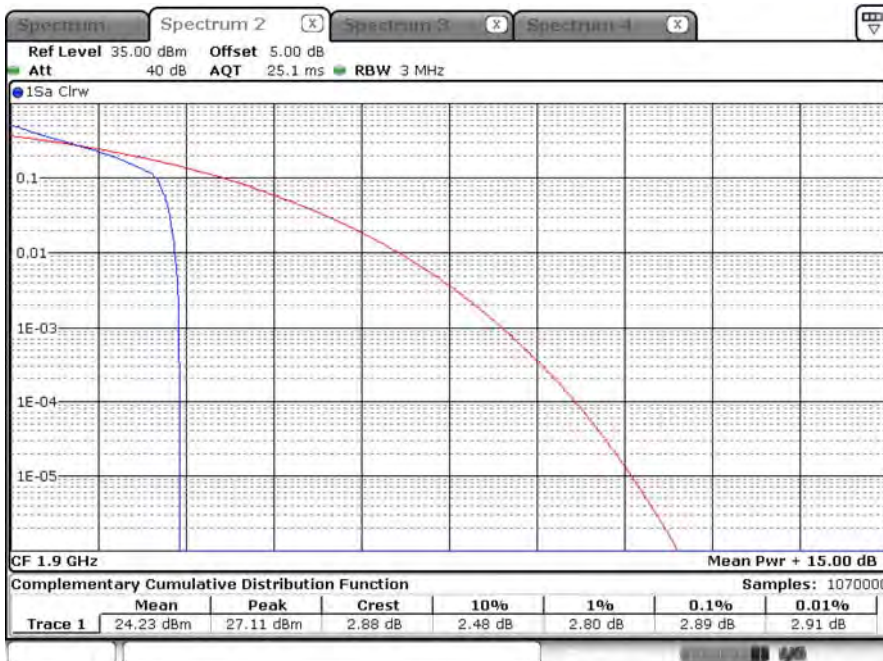
### B2\_CH18900\_20M\_1RB49\_QPSK



Date: 11.APR.2019 16:52:45



### B2\_CH19100\_20M\_1RB49\_QPSK



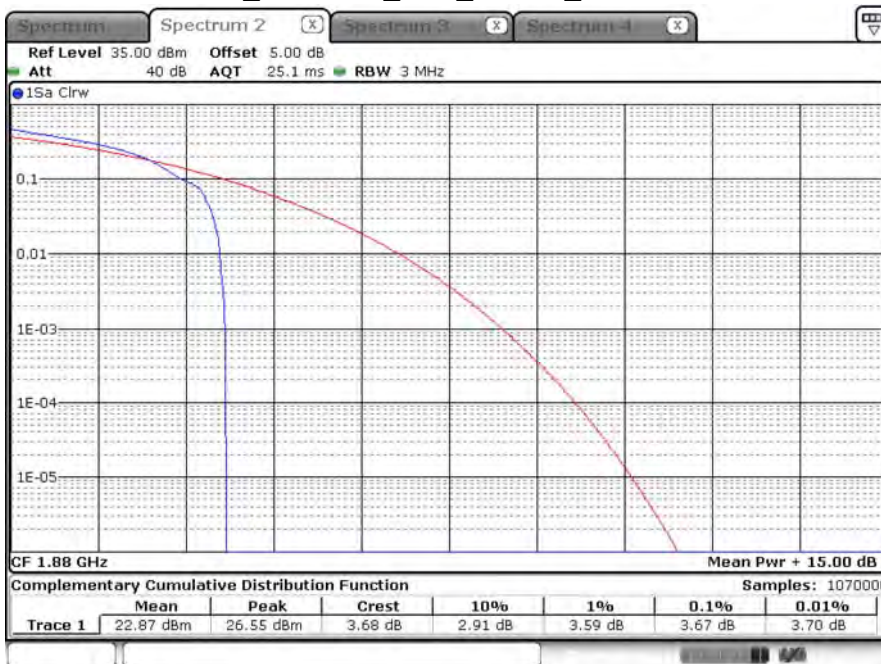
Date: 11.APR.2019 17:12:39

### B2\_CH18700\_20M\_1RB49\_16-QAM



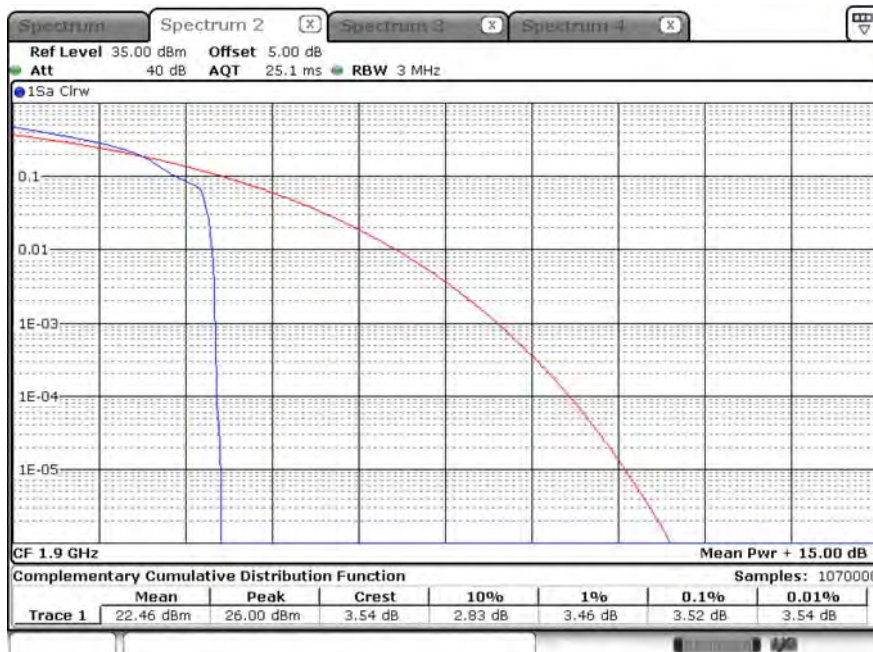
Date: 11.APR.2019 16:36:42

### B2\_CH18900\_20M\_1RB49\_16-QAM



Date: 11.APR.2019 17:00:53

### B2\_CH19100\_20M\_1RB49\_16-QAM



Date: 11.APR.2019 17:06:42



|              |                       |           |        |
|--------------|-----------------------|-----------|--------|
| Product      | Module                |           |        |
| Test Item    | Peak To Average Ratio |           |        |
| Test Mode    | Mode 2: LTE Band 4    |           |        |
| Date of Test | 2019/04/11            | Test Site | SR10-H |

### B4\_CH19957\_1.4M\_1RB2\_QPSK



Date: 11 APR 2019 11:40:12

### B4\_CH20175\_1.4M\_1RB2\_QPSK



Date: 11 APR 2019 11:58:27

### B4\_CH20393\_1.4M\_1RB2\_QPSK



Date: 11.APR.2019 12:00:09

### B4\_CH19957\_1.4M\_1RB2\_16-QAM



Date: 11.APR.2019 11:45:40

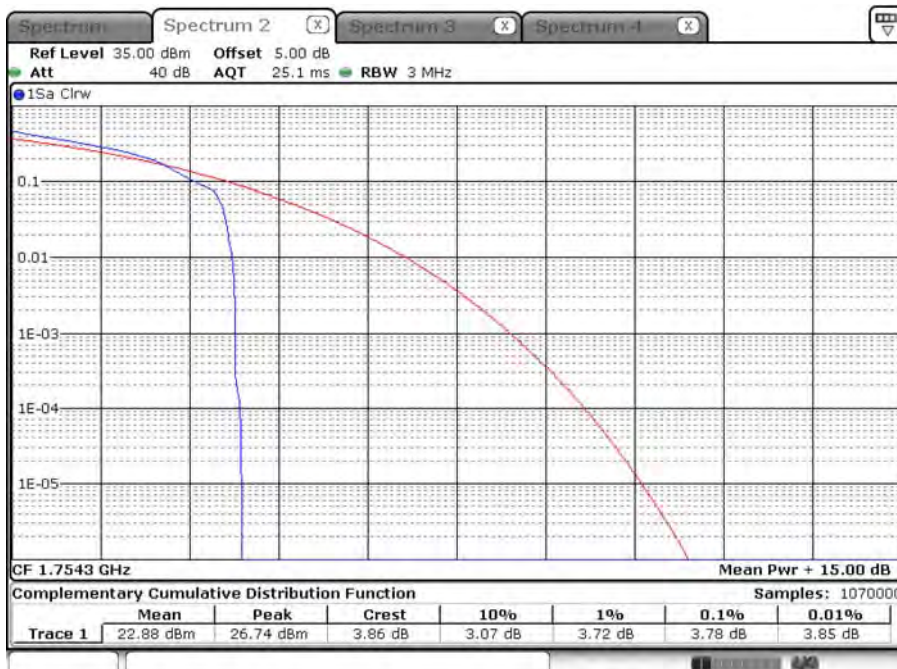


### B4\_CH20175\_1.4M\_1RB2\_16-QAM



Date: 11 APR 2019 11:54:25

### B4\_CH20393\_1.4M\_1RB2\_16-QAM



Date: 11 APR 2019 12:00:43

### B4\_CH19965\_3M\_1RB7\_QPSK



Date: 11 APR 2019 12:04:32

### B4\_CH20175\_3M\_1RB7\_QPSK



Date: 11 APR 2019 12:11:13



### B4\_CH20385\_3M\_1RB7\_QPSK



Date: 11 APR 2019 12:12:22

### B4\_CH19965\_3M\_1RB7\_16-QAM



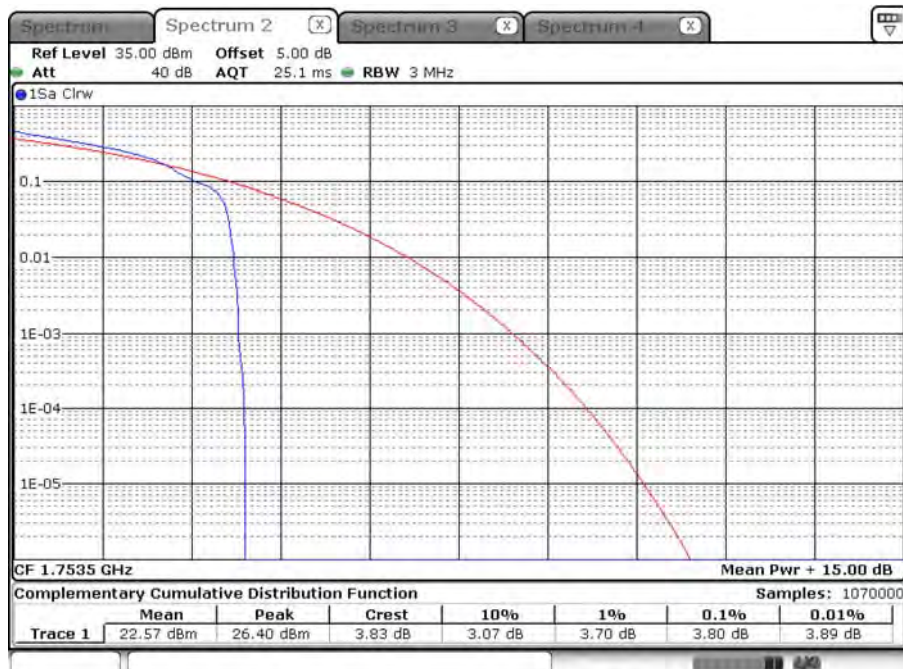
Date: 11 APR 2019 12:07:02

### B4\_CH20175\_3M\_1RB7\_16-QAM



Date: 11 APR 2019 12:10:03

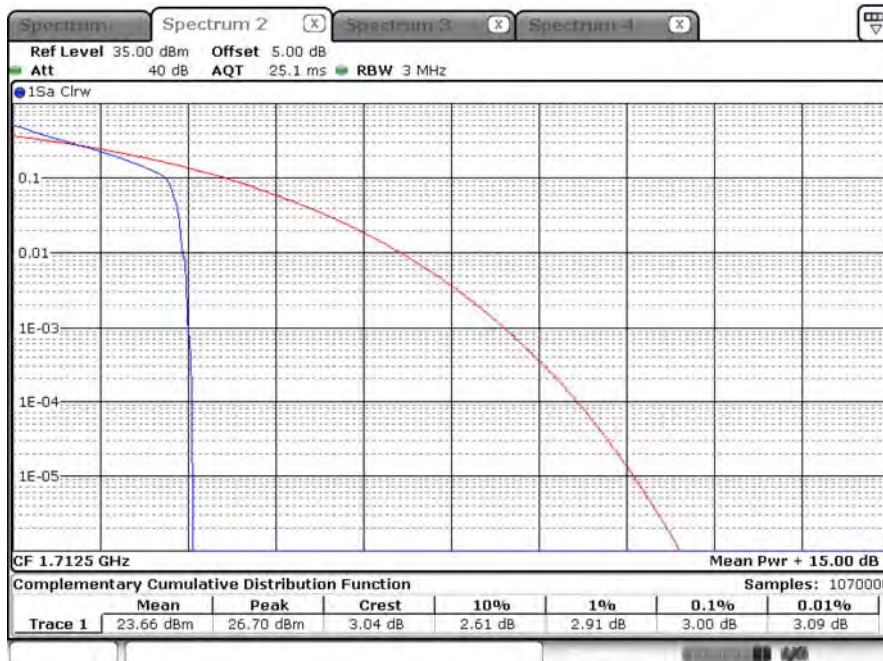
### B4\_CH20385\_3M\_1RB7\_16-QAM



Date: 11 APR 2019 12:13:15



### B4\_CH19975\_5M\_1RB12\_QPSK



Date: 11.APR.2019 12:19:48

### B4\_CH20175\_5M\_1RB12\_QPSK



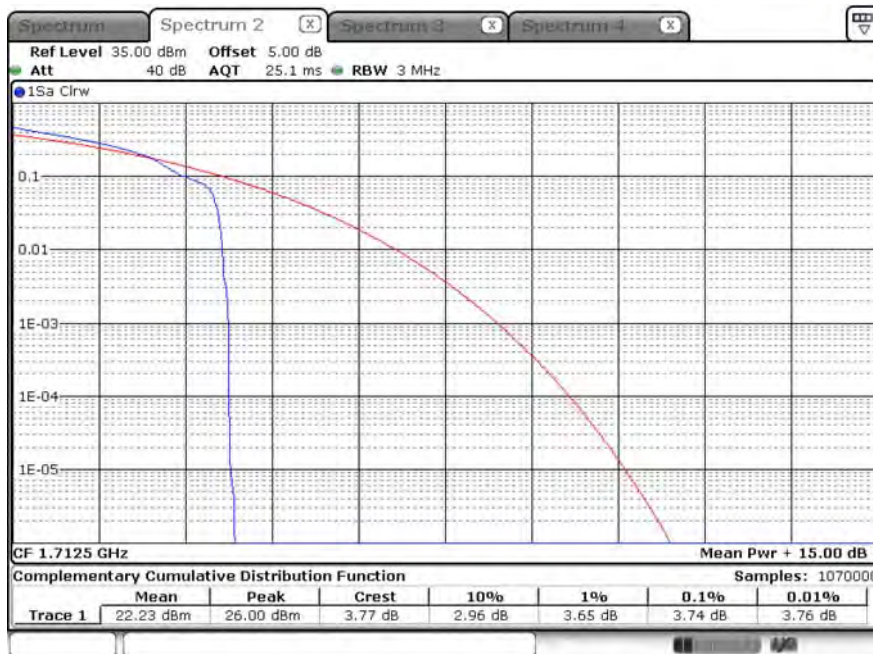
Date: 11.APR.2019 12:21:28

### B4\_CH20375\_5M\_1RB12\_QPSK



Date: 11.APR.2019 12:23:50

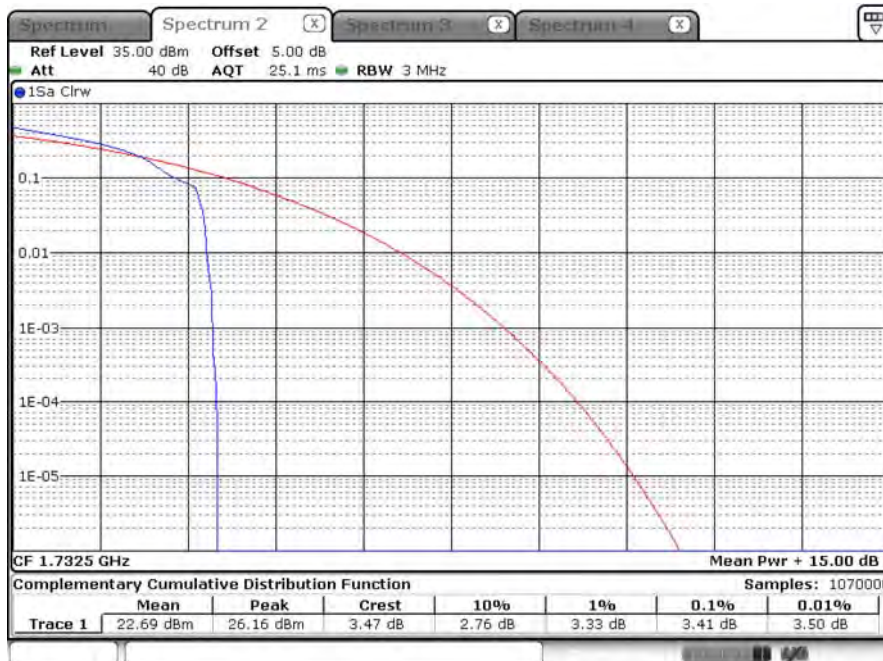
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Date: 11.APR.2019 12:18:42



### B4\_CH20175\_5M\_1RB12\_16-QAM



Date: 11.APR.2019 12:21:58

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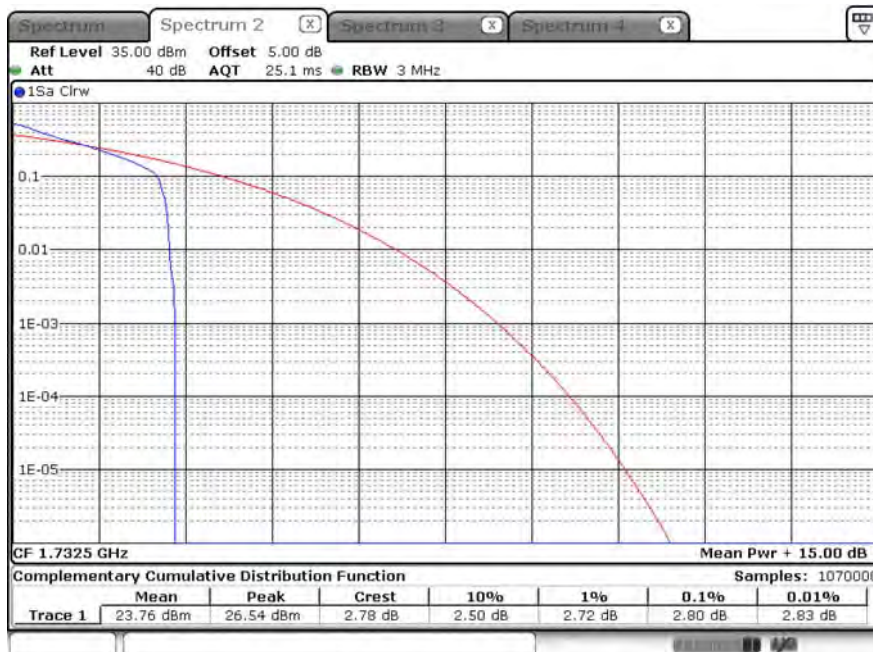
Date: 11.APR.2019 12:23:31

### B4\_CH20000\_10M\_1RB24\_QPSK



Date: 11.APR.2019 12:29:48

### B4\_CH20175\_10M\_1RB24\_QPSK



Date: 11.APR.2019 12:32:12



### B4\_CH20350\_10M\_1RB24\_QPSK



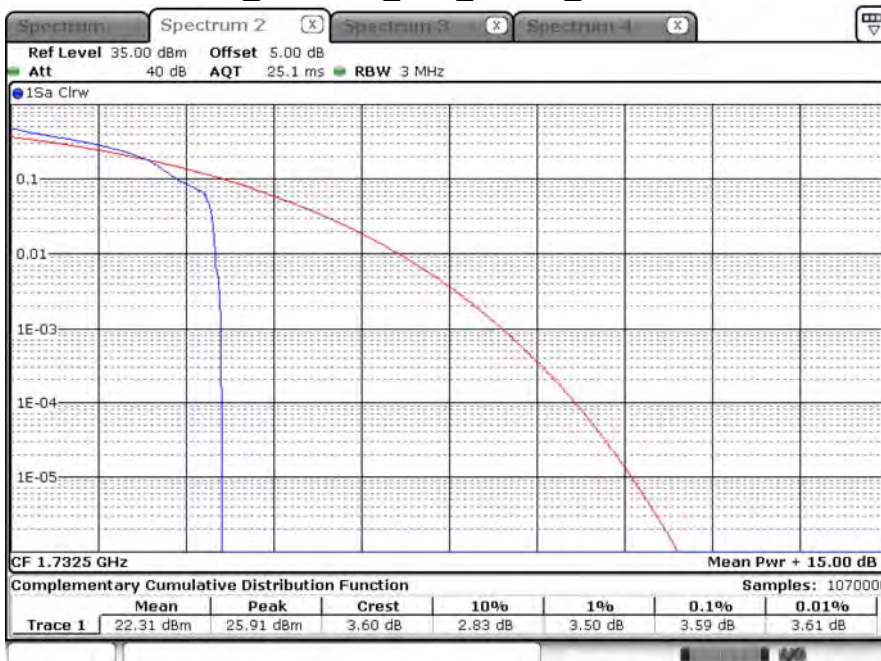
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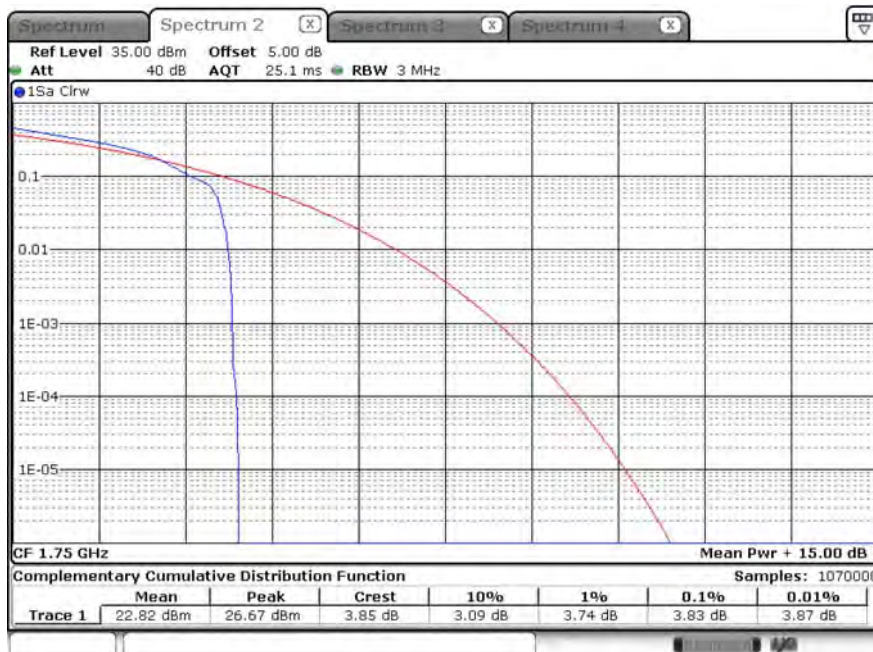
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Date: 11.APR.2019 12:31:44

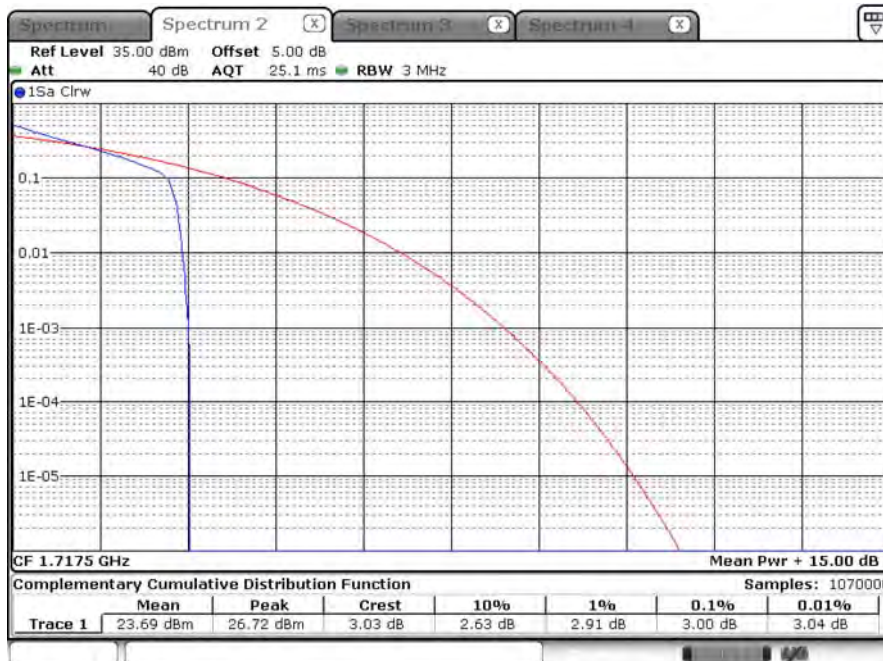
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Date: 11.APR.2019 12:34:52



### B4\_CH20025\_15M\_1RB37\_QPSK



Date: 11.APR.2019 12:40:49

### B4\_CH20175\_15M\_1RB37\_QPSK



Date: 11.APR.2019 12:42:08

### B4\_CH20325\_15M\_1RB37\_QPSK



Date: 11.APR.2019 12:44:34

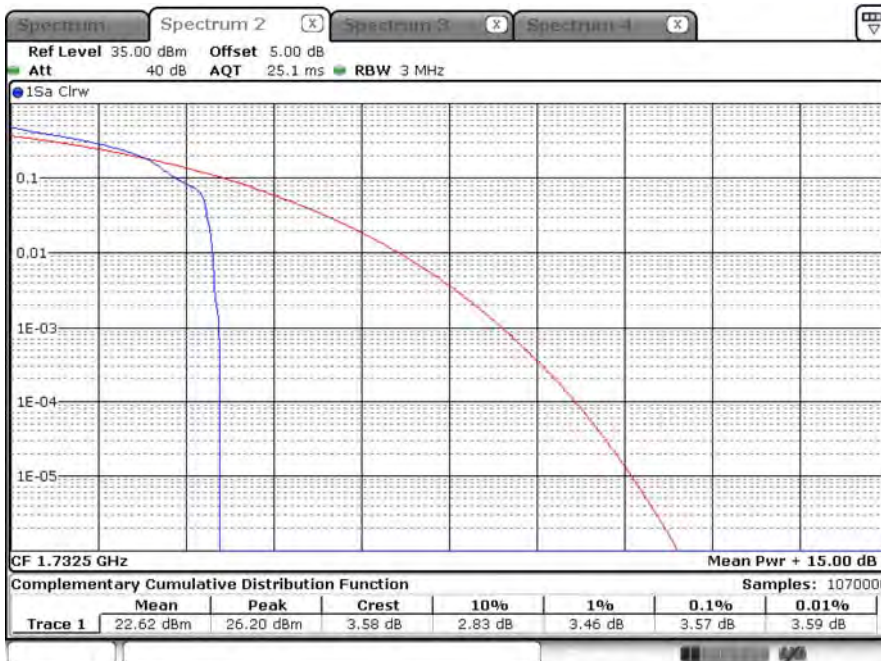
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Date: 11.APR.2019 12:40:26

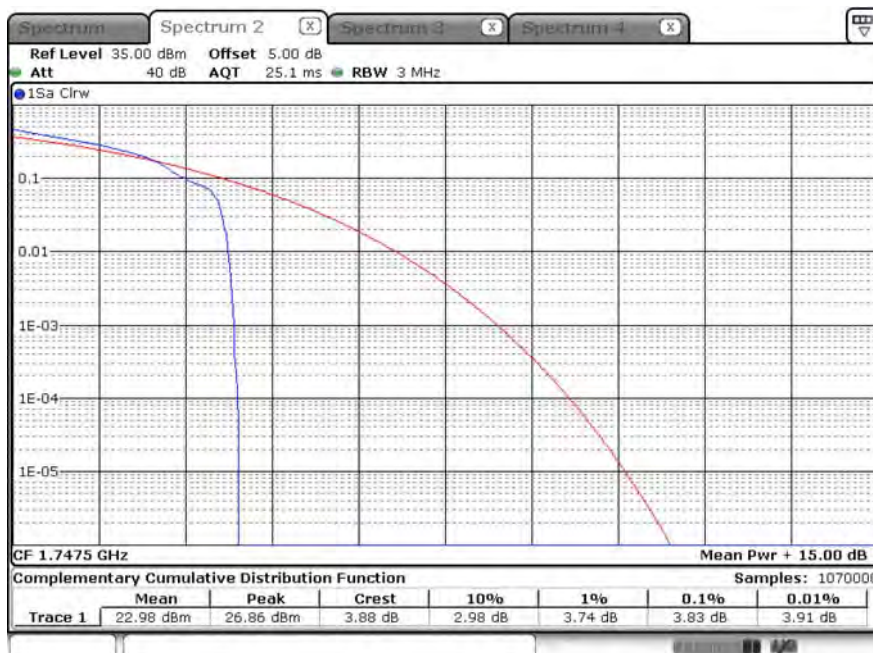


### B4\_CH20175\_15M\_1RB37\_16-QAM



Date: 11.APR.2019 12:42:28

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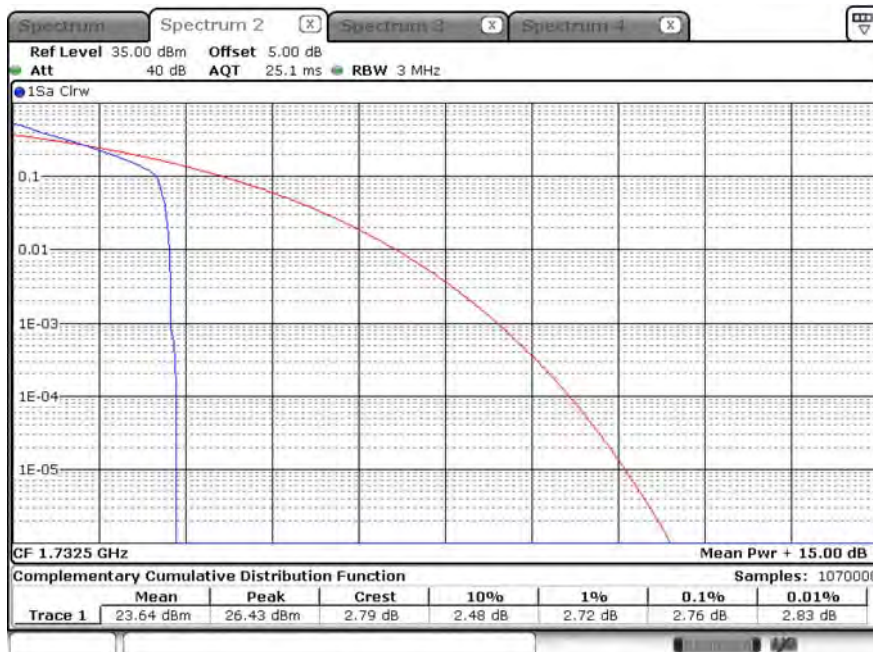
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### B4\_CH20050\_20M\_1RB49\_QPSK



Date: 11.APR.2019 10:42:30

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Date: 11.APR.2019 10:57:56

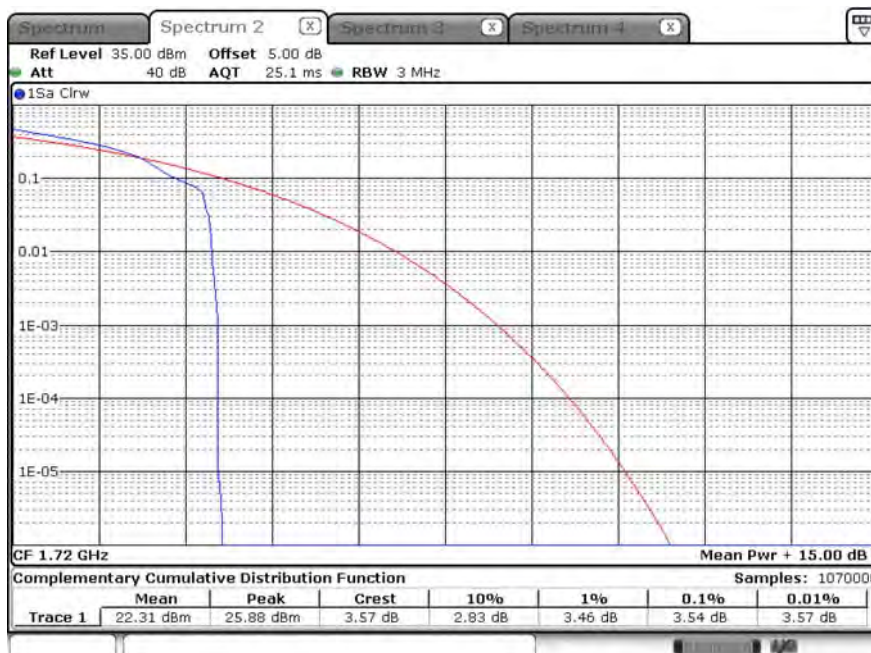


### B4\_CH20300\_20M\_1RB49\_QPSK



Date: 11.APR.2019 11:15:18

### B4\_CH20050\_20M\_1RB49\_16-QAM



Date: 11.APR.2019 10:47:50