

LTE Band XII (Part27) result

Low channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1408 | V | -36.28 | -13 | -23.28 |
| 1408 | H | -31.17 | -13 | -18.17 |
| 412.56 | V | -34.15 | -13 | -21.15 |
| 646.73 | H | -34.13 | -13 | -21.13 |

Middle channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1415 | V | -28.95 | -13 | -15.95 |
| 1415 | H | -36.37 | -13 | -23.37 |
| 454.85 | V | -40.88 | -13 | -27.88 |
| 811.29 | H | -34.8 | -13 | -21.8 |

High channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1422 | V | -30.08 | -13 | -17.08 |
| 1422 | H | -35.59 | -13 | -22.59 |
| 344.41 | V | -40.55 | -13 | -27.55 |
| 543.54 | H | -32.93 | -13 | -19.93 |

Note:

- 1, The testing has been conformed to $10 \times 715.3 \text{MHz} = 7,153 \text{MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

LTE Band XVII (Part27) result

Low channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1418 | V | -36.4 | -13 | -23.4 |
| 1418 | H | -37.5 | -13 | -24.5 |
| 320.71 | V | -35.97 | -13 | -22.97 |
| 713.19 | H | -33.95 | -13 | -20.95 |

Middle channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1420 | V | -32.38 | -13 | -19.38 |
| 1420 | H | -39.04 | -13 | -26.04 |
| 238.63 | V | -39.51 | -13 | -26.51 |
| 564.62 | H | -35.91 | -13 | -22.91 |

High channel

| Frequency (MHz) | Antenna Polarization (H/V) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|----------------------------------|-------------------------------|----------------|----------------|
| 1422 | V | -30.86 | -13 | -17.86 |
| 1422 | H | -36.82 | -13 | -23.82 |
| 816.44 | V | -39.57 | -13 | -26.57 |
| 433.89 | H | -36.21 | -13 | -23.21 |

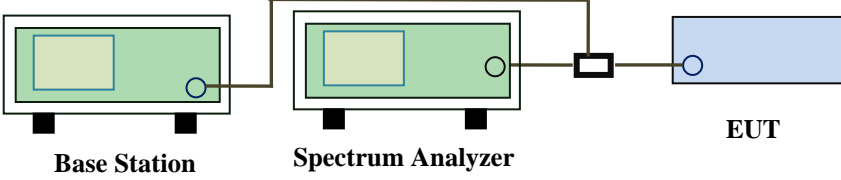
Note:

- 1, The testing has been conformed to $10 \times 713.5 \text{ MHz} = 7,135 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

6.7 Band Edge

| | |
|----------------------|---------------------|
| Temperature | 25 °C |
| Relative Humidity | 57% |
| Atmospheric Pressure | 1024mbar |
| Test date : | January 24&27, 2018 |
| Tested By : | Aaron Liang |

Requirement(s):

| Spec | Item | Requirement | Applicable |
|--|--|--|-------------------------------------|
| §22.917(a) §24.238(a) § 27.53(h) | a) | The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. | <input checked="" type="checkbox"/> |
| Test setup |  <p>The diagram shows a Base Station (green box) connected to a Spectrum Analyzer (green box) and an EUT (blue box) via a power divider (black box). The Base Station and Spectrum Analyzer are connected to each other, and the Spectrum Analyzer is connected to the power divider, which then splits the signal to the EUT.</p> | | |
| Procedure | <ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100. | | |
| Remark | | | |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | | |

Test Data Yes N/A

Test Plot Yes (See below) N/A

LTE Band II (Part 24E) result

| BW(MHz) | Channel | Frequency (MHz) | Mode | Emission (dBm) | Limit (dBm) |
|---------|---------|-----------------|-------|----------------|-------------|
| 1.4 | 18607 | 1850 | 16QAM | -23.686 | -13 |
| | | | QPSK | -23.612 | -13 |
| 1.4 | 18900 | 1910 | 16QAM | -21.865 | -13 |
| | | | QPSK | -22.074 | -13 |
| 3 | 18615 | 1850 | 16QAM | -23.493 | -13 |
| | | | QPSK | -22.722 | -13 |
| 3 | 19185 | 1910 | 16QAM | -19.586 | -13 |
| | | | QPSK | -20.136 | -13 |
| 5 | 18625 | 1850 | 16QAM | -18.002 | -13 |
| | | | QPSK | -17.156 | -13 |
| 5 | 19175 | 1910 | 16QAM | -19.601 | -13 |
| | | | QPSK | -16.429 | -13 |
| 10 | 18650 | 1850 | 16QAM | -15.691 | -13 |
| | | | QPSK | -19.397 | -13 |
| 10 | 19150 | 1910 | 16QAM | -20.593 | -13 |
| | | | QPSK | -19.19 | -13 |
| 15 | 18675 | 1850 | 16QAM | -17.397 | -13 |
| | | | QPSK | -16.781 | -13 |
| 15 | 19125 | 1910 | 16QAM | -18.262 | -13 |
| | | | QPSK | -18.088 | -13 |
| 20 | 18700 | 1850 | 16QAM | -22.495 | -13 |
| | | | QPSK | -23.501 | -13 |
| 20 | 19100 | 1910 | 16QAM | -23.422 | -13 |
| | | | QPSK | -25.11 | -13 |

LTE Band IV (Part 27) result

| BW(MHz) | Channel | Frequency (MHz) | Mode | Emission (dBm) | Limit (dBm) |
|---------|---------|-----------------|-------|----------------|-------------|
| 1.4 | 19957 | 1709.9 | 16QAM | -26.753 | -13 |
| | | | QPSK | -25.614 | -13 |
| 1.4 | 20393 | 1755 | 16QAM | -26.236 | -13 |
| | | | QPSK | -26.82 | -13 |
| 3 | 19965 | 1709.9 | 16QAM | -24.097 | -13 |
| | | | QPSK | -21.615 | -13 |
| 3 | 20385 | 1755 | 16QAM | -21.209 | -13 |
| | | | QPSK | -20.641 | -13 |
| 5 | 19975 | 1709.9 | 16QAM | -15.885 | -13 |
| | | | QPSK | -15.845 | -13 |
| 5 | 20375 | 1755 | 16QAM | -18.402 | -13 |
| | | | QPSK | -17.938 | -13 |
| 10 | 20000 | 1709.9 | 16QAM | -16.29 | -13 |
| | | | QPSK | -16.397 | -13 |
| 10 | 20350 | 1755 | 16QAM | -16.723 | -13 |
| | | | QPSK | -17.977 | -13 |
| 15 | 20025 | 1709.9 | 16QAM | -17.111 | -13 |
| | | | QPSK | -16.15 | -13 |
| 15 | 20325 | 1755 | 16QAM | -16.946 | -13 |
| | | | QPSK | -17.503 | -13 |
| 20 | 20050 | 1709.9 | 16QAM | -23.682 | -13 |
| | | | QPSK | -23.088 | -13 |
| 20 | 20300 | 1755 | 16QAM | -23.211 | -13 |
| | | | QPSK | -24.036 | -13 |

LTE Band XII (Part 27) result

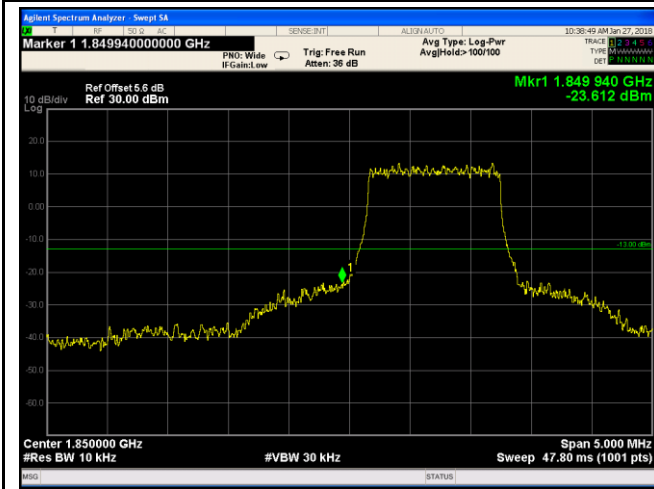
| BW(MHz) | Channel | Frequency (MHz) | Mode | Emission (dBm) | Limit (dBm) |
|---------|---------|-----------------|-------|----------------|-------------|
| 1.4 | 23017 | 699 | 16QAM | -19.842 | -13 |
| | | | QPSK | -18.602 | -13 |
| 1.4 | 23173 | 716 | 16QAM | -19.299 | -13 |
| | | | QPSK | -18.166 | -13 |
| 3 | 23025 | 699 | 16QAM | -17.227 | -13 |
| | | | QPSK | -17.957 | -13 |
| 3 | 23165 | 716 | 16QAM | -19.875 | -13 |
| | | | QPSK | -19.635 | -13 |
| 5 | 23035 | 699 | 16QAM | -20.861 | -13 |
| | | | QPSK | -22.669 | -13 |
| 5 | 23155 | 716 | 16QAM | -16.829 | -13 |
| | | | QPSK | -19.308 | -13 |
| 10 | 23060 | 698 | 16QAM | -26.168 | -13 |
| | | | QPSK | -23.21 | -13 |
| 10 | 23130 | 716 | 16QAM | -21.114 | -13 |
| | | | QPSK | -20.016 | -13 |

LTE Band XVII (Part 27) result

| BW(MHz) | Channel | Frequency (MHz) | Mode | Emission (dBm) | Limit (dBm) |
|---------|---------|-----------------|-------|----------------|-------------|
| 5 | 23755 | 704 | 16QAM | -18.794 | -13 |
| | | | QPSK | -16.883 | -13 |
| 5 | 23825 | 716 | 16QAM | -18.21 | -13 |
| | | | QPSK | -17.897 | -13 |
| 10 | 23780 | 704 | 16QAM | -18.406 | -13 |
| | | | QPSK | -18.54 | -13 |
| 10 | 23800 | 716 | 16QAM | -19.747 | -13 |
| | | | QPSK | -20.665 | -13 |

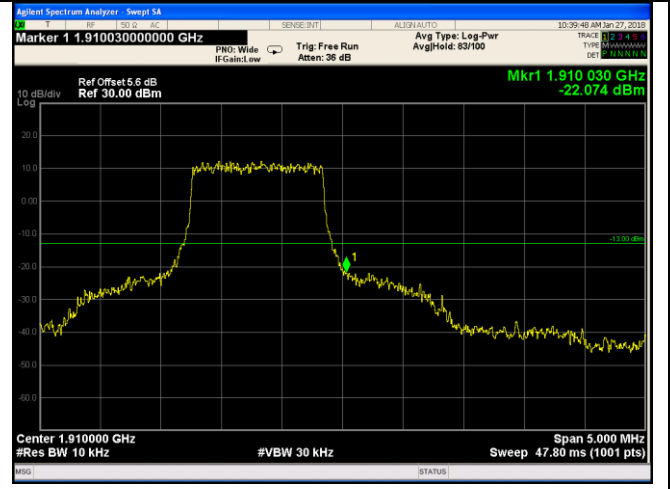
Test Plots

LTE Band II (Part 24E)



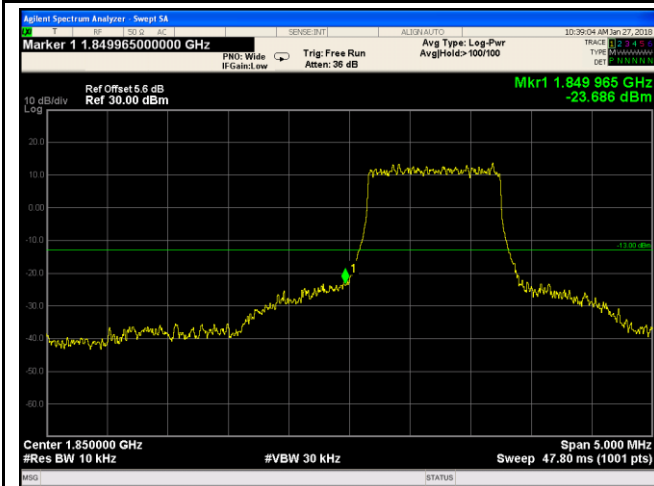
LTE Band II - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.09)=4.5+1.1=5.6dB



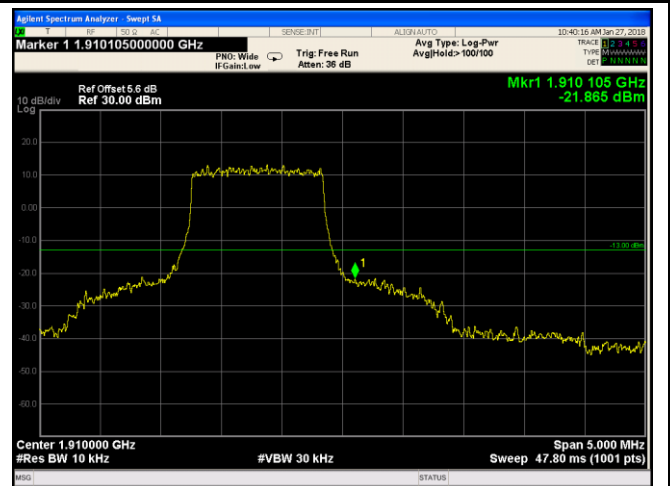
LTE Band II - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.15)=4.5+1.1=5.6dB



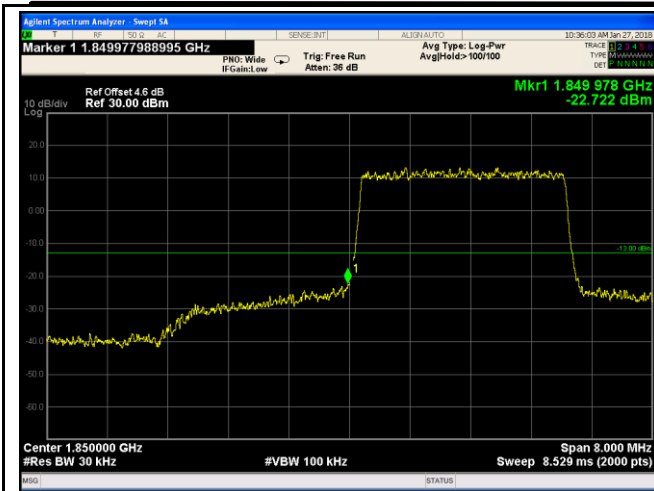
LTE Band II - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.20/10)=4.5+1.1=5.6 dB



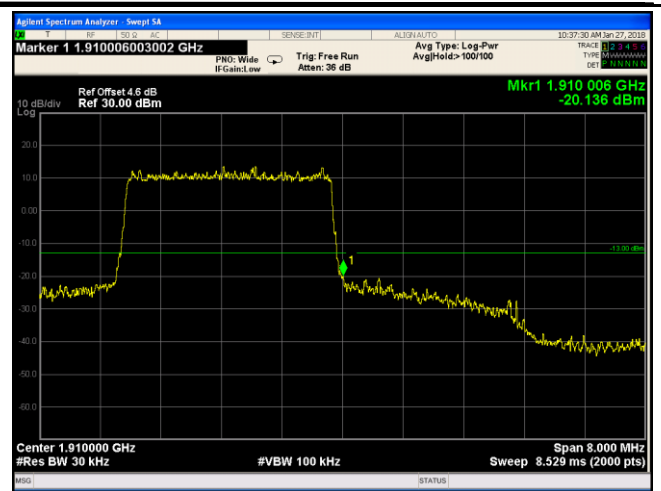
LTE Band II - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.10)=4.5+1.1=5.6dB



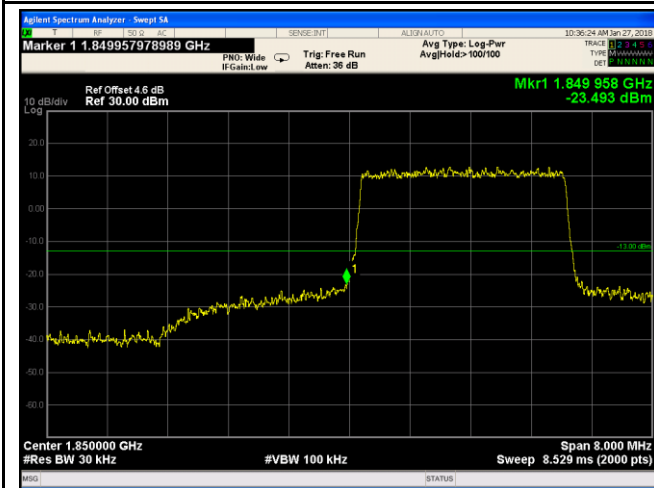
LTE Band II - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(30.58/30)=4.5+0.1=4.6 dB



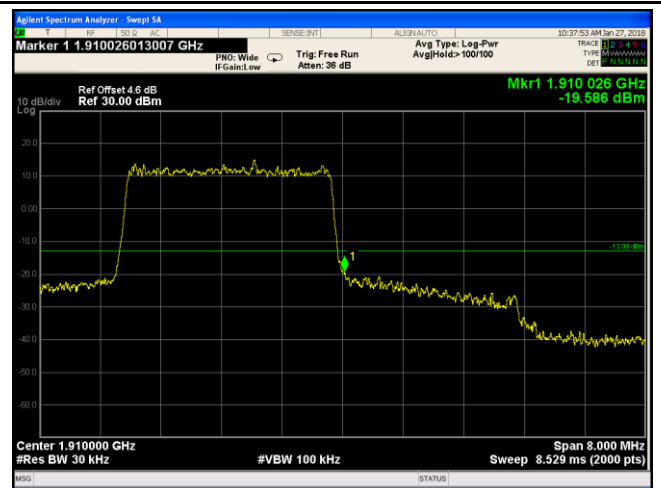
LTE Band II - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(31.00/30)=4.5+0.1=4.6 dB



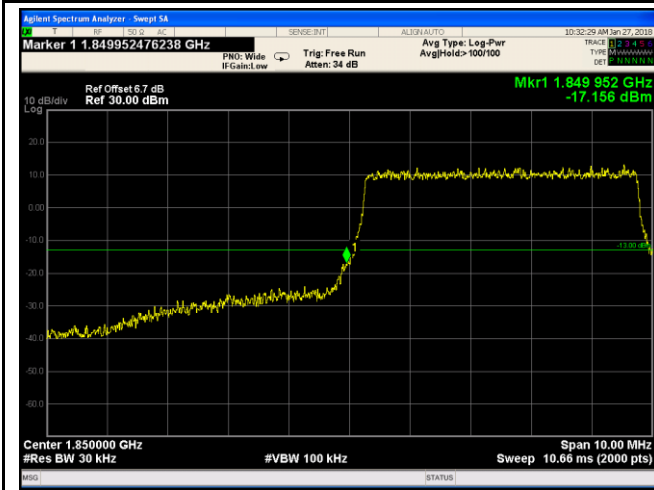
LTE Band II - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(30.66/30)=4.5+0.1=4.6 dB



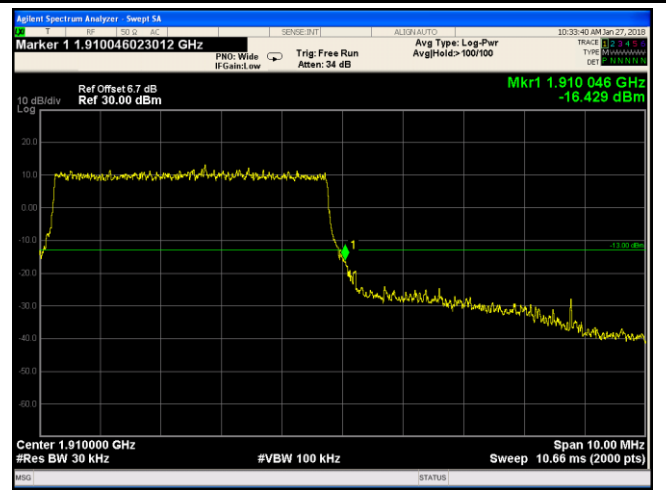
LTE Band II - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(30.57/30)=4.5+0.1=4.6 dB



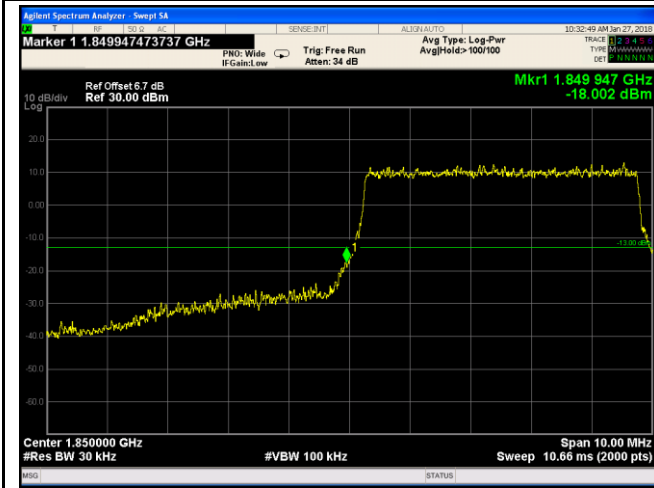
LTE Band II - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(51.95/30)=4.5+2.2=6.7dB



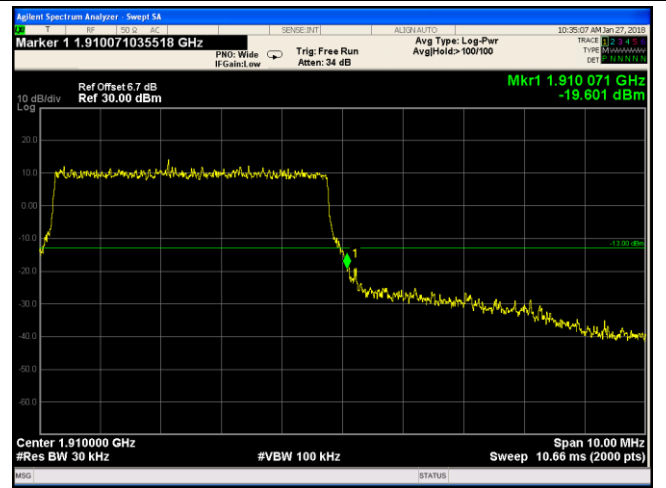
LTE Band II - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(52.81/30)=4.5+2.2=6.7 dB



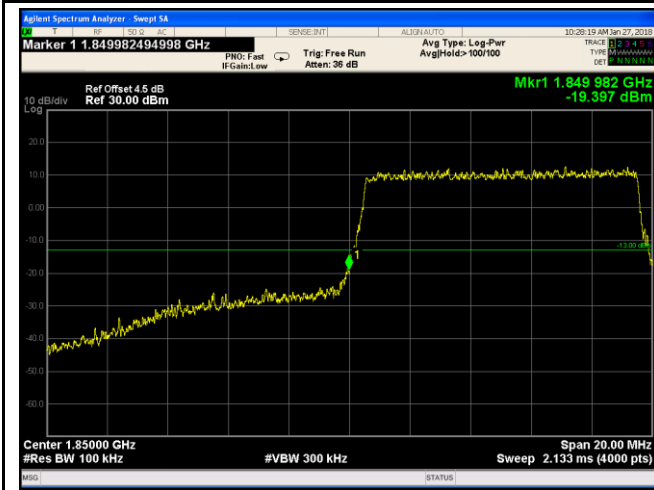
LTE Band II - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
(51.81/30)=4.5+2.2=6.7 dB

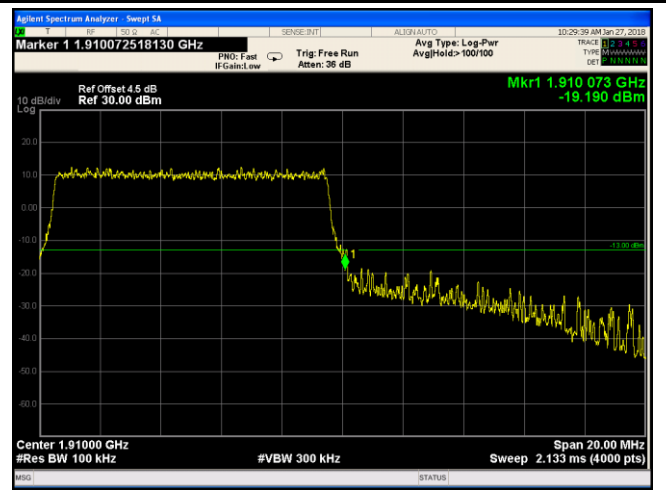


LTE Band II - High Channel 16QAM-5

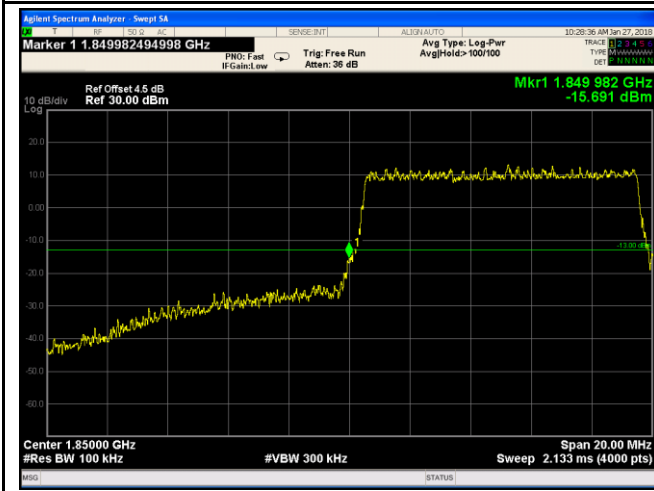
Note: Offset=Cable loss (4.5) + 10log
(52.79/30)=4.5+2.2=6.7 dB



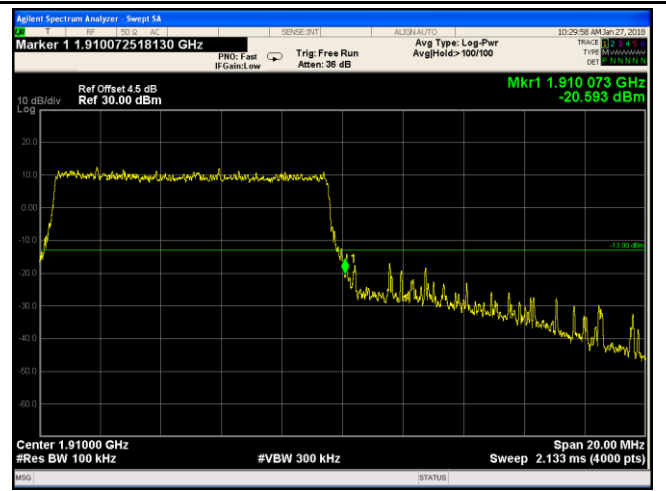
LTE Band II - Low Channel QPSK-10



LTE Band II - High Channel QPSK-10



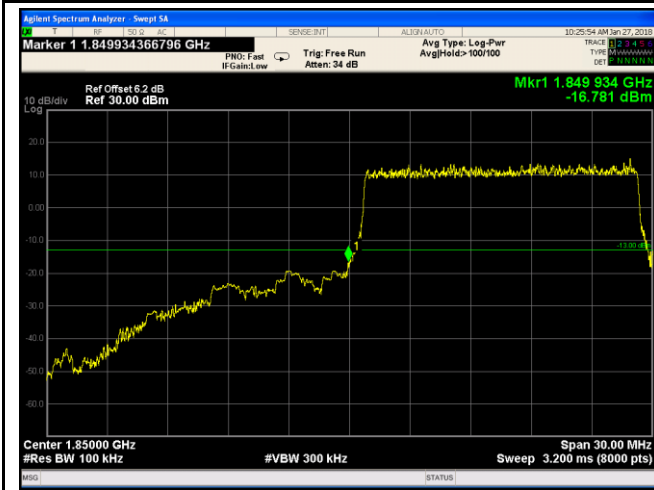
LTE Band II - Low Channel 16QAM-10



LTE Band II - High Channel 16QAM-10

Note: Offset=Cable loss (4.5) + 10log
(103.9/100)=4.5+0.0=4.5 dB

Note: Offset=Cable loss (4.5) + 10log
(104.6/100)=4.5+0.0=4.5 dB



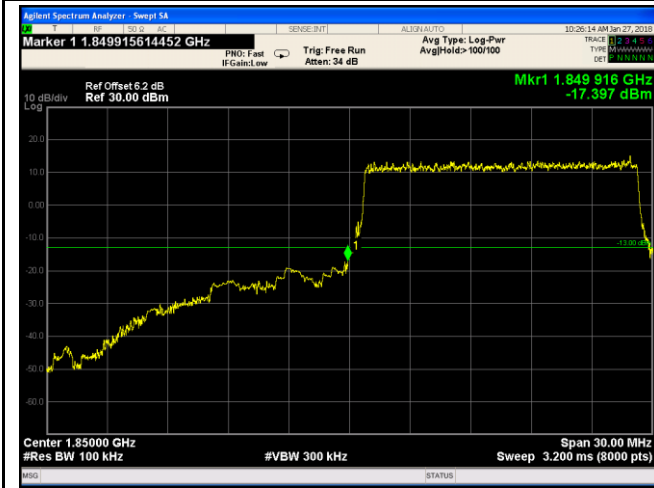
LTE Band II - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
(150.1/100)=4.5+1.7=6.2 dB



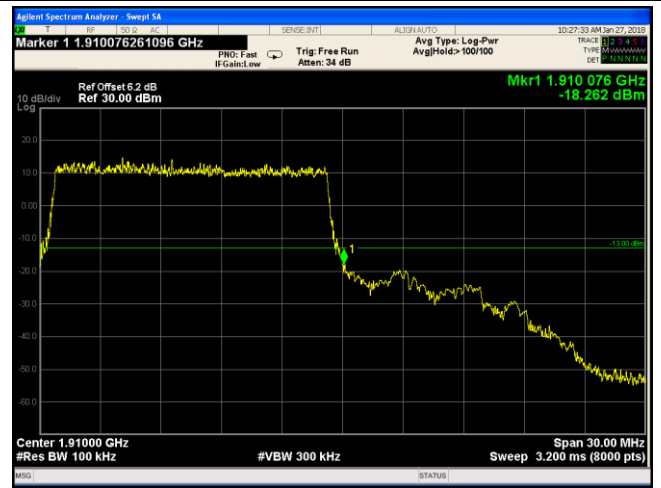
LTE Band II - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
(151.5/100)=4.5+1.7=6.2 dB



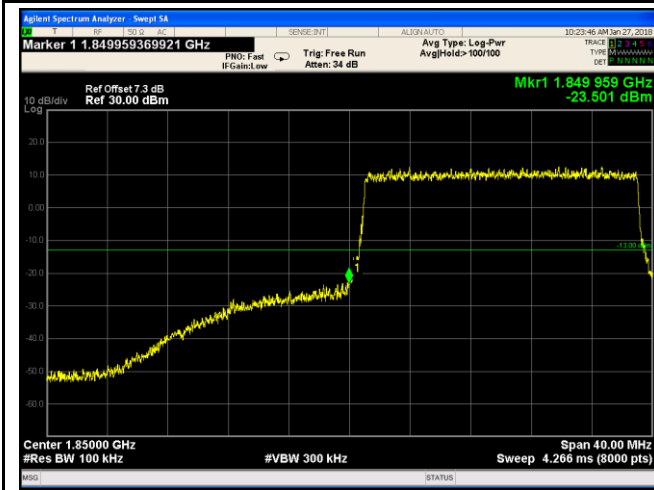
LTE Band II - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(152.2/100)=4.5+1.7=6.2 dB



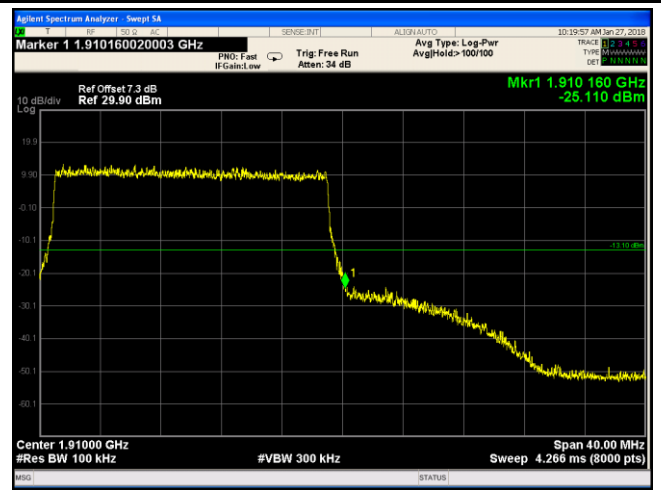
LTE Band II - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(151.8/100)=4.5+1.7=6.2 dB



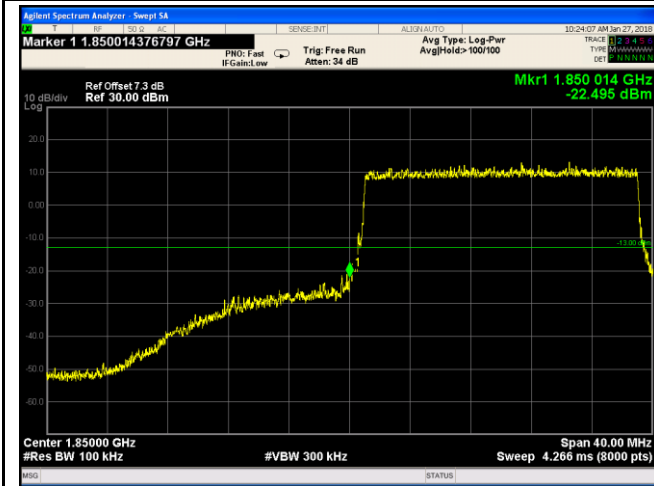
LTE Band II - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(192.3/100)=4.5+2.8=7.3 dB



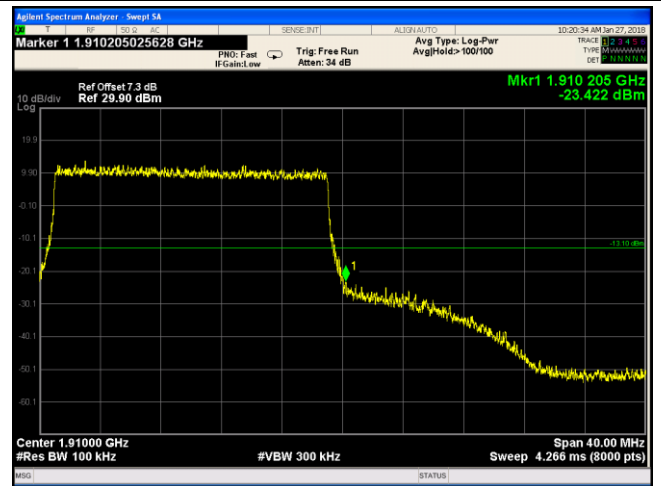
LTE Band II - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(194.1/100)=4.5+2.8=7.3 dB



LTE Band II - Low Channel 16QAM-20

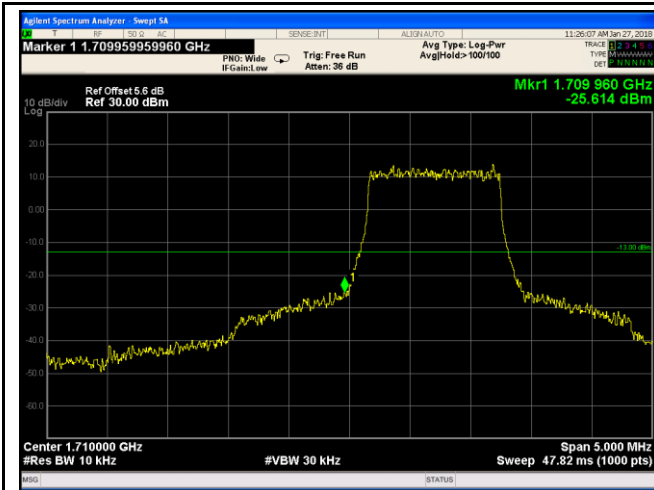
Note: Offset=Cable loss (4.5) + 10log
(196.0/100)=4.5+2.8=7.3 dB



LTE Band II - High Channel 16QAM-20

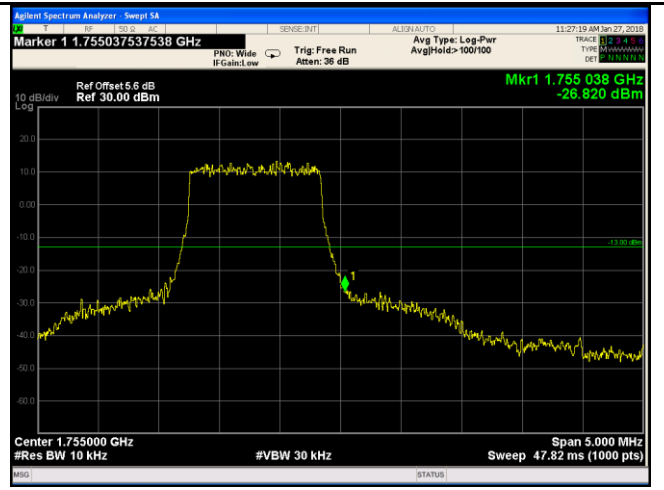
Note: Offset=Cable loss (4.5) + 10log
(196.7/100)=4.5+2.8=7.3 dB

LTE Band IV (Part 27)



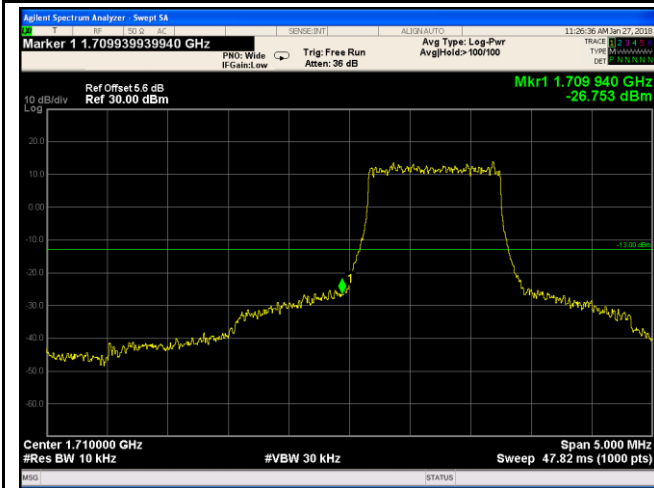
LTE Band IV - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.27/10)=4.5+1.1=5.6 dB



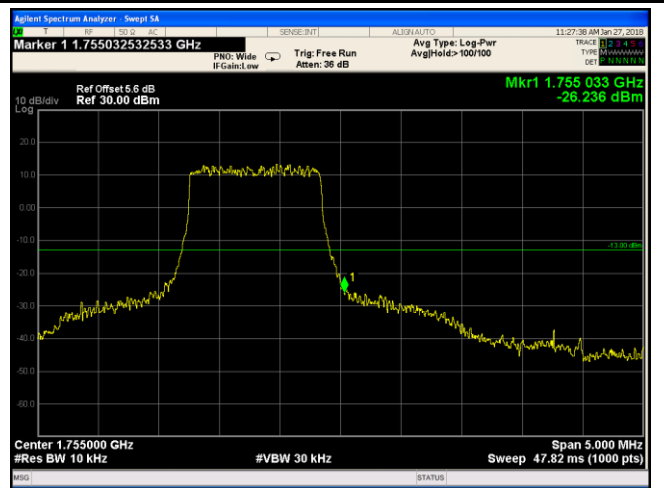
LTE Band IV - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.09/10)=4.5+1.1=5.6 dB



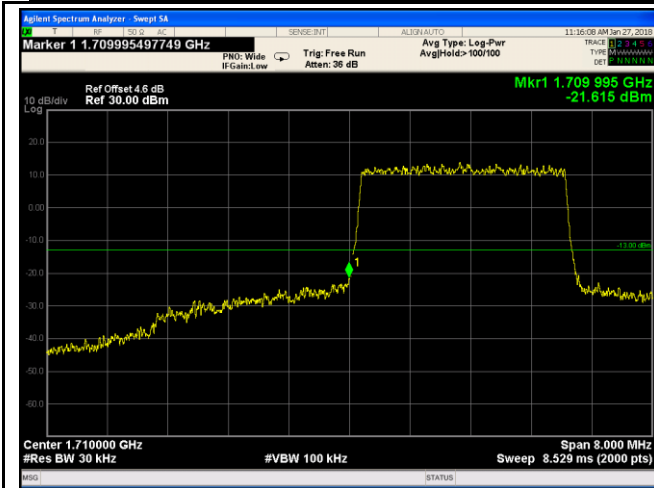
LTE Band IV - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.28/10)=4.5+1.1=5.6 dB



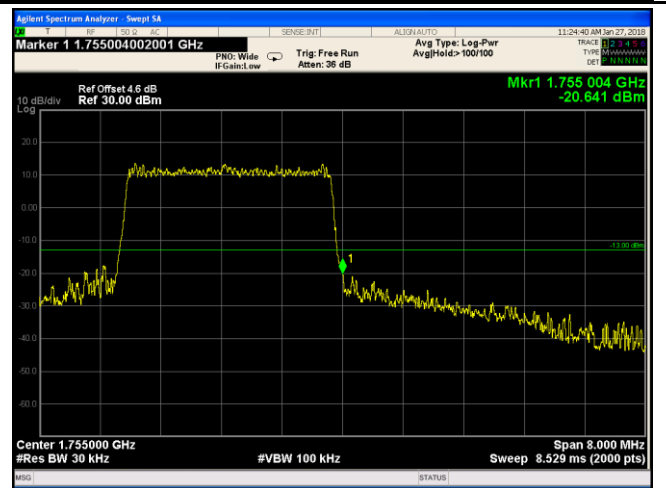
LTE Band IV - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.07/10)=4.5+1.1=5.6 dB



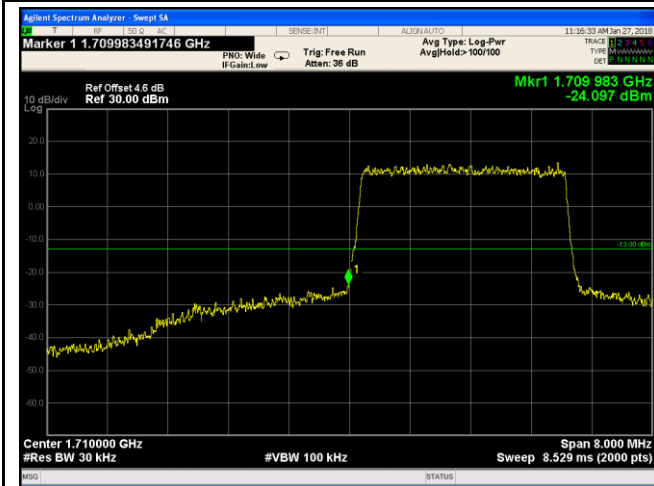
LTE Band IV - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(30.14/30)=4.5+0.1=4.6 dB



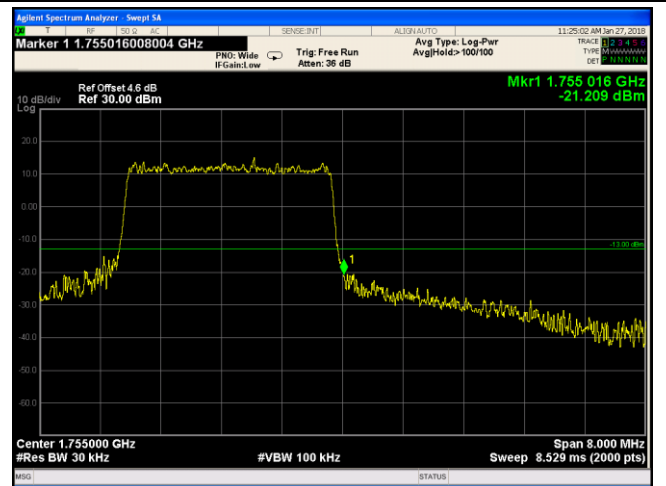
LTE Band IV - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(30.04/30)=4.5+0.1=4.6 dB



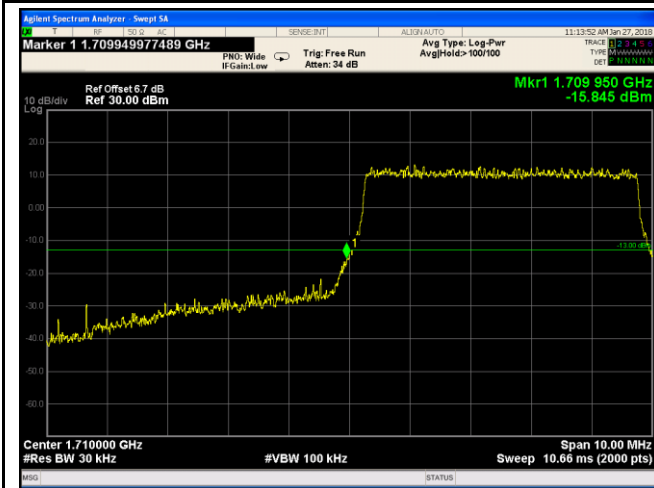
LTE Band IV - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(29.96/30)=4.5+0.1=4.6 dB



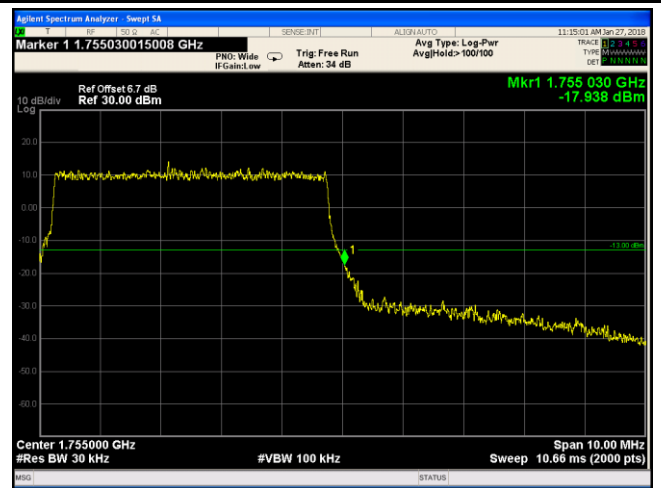
LTE Band IV - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(30.10/30)=4.5+0.1=4.6 dB



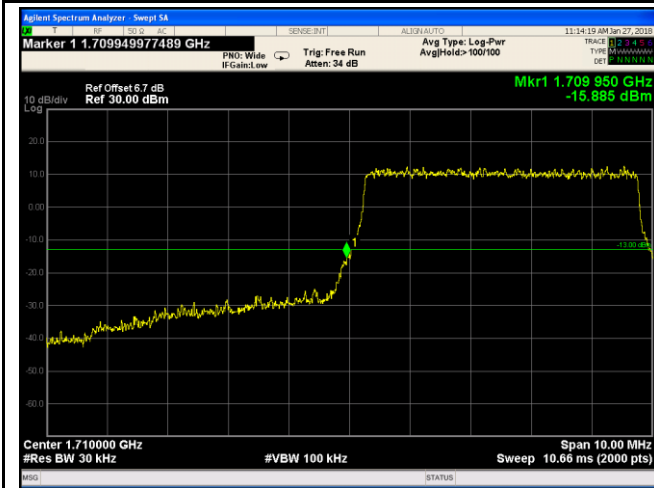
LTE Band IV - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(50.54/30)=4.5+2.2=6.7 dB



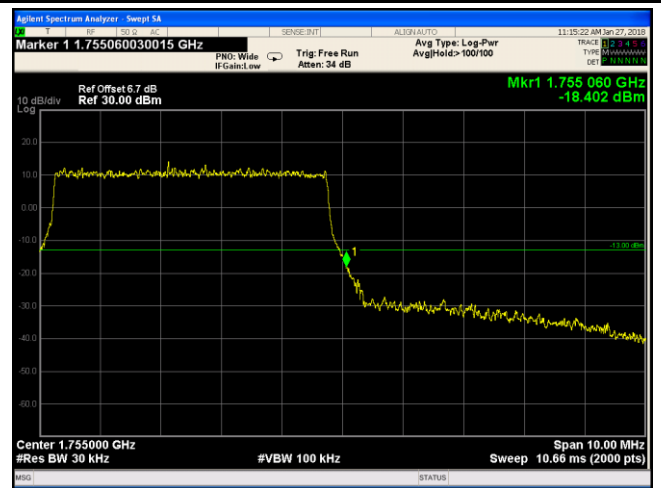
LTE Band IV - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(52.05/30)=4.5+2.2=6.7 dB



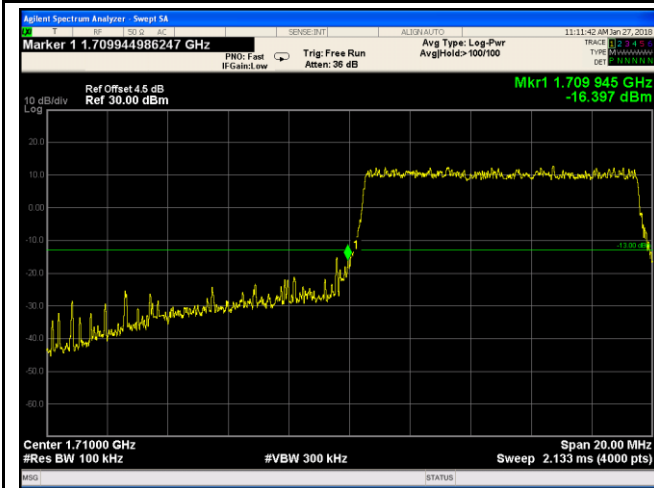
LTE Band IV - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
(52.16/30)=4.5+2.2=6.7 dB

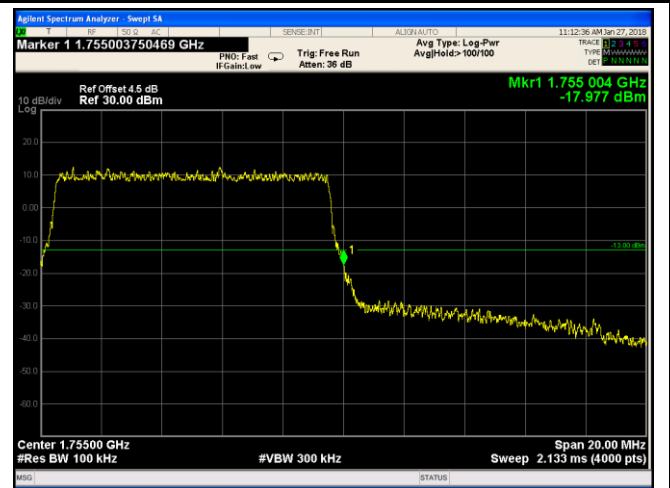


LTE Band IV - High Channel 16QAM-5

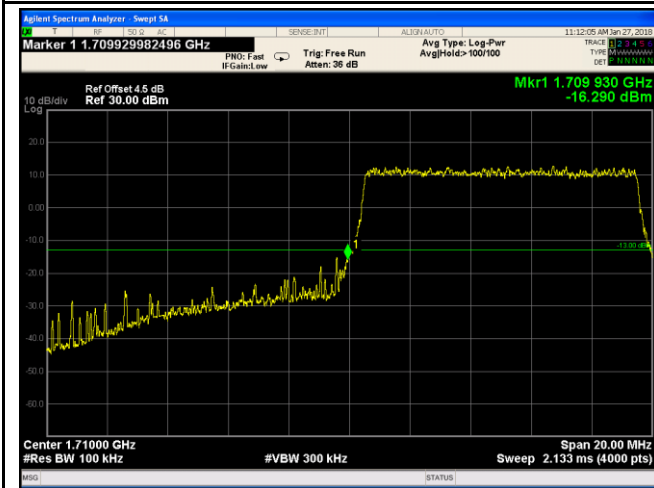
Note: Offset=Cable loss (4.5) + 10log
(51.66/30)=4.5+2.2=6.7 dB



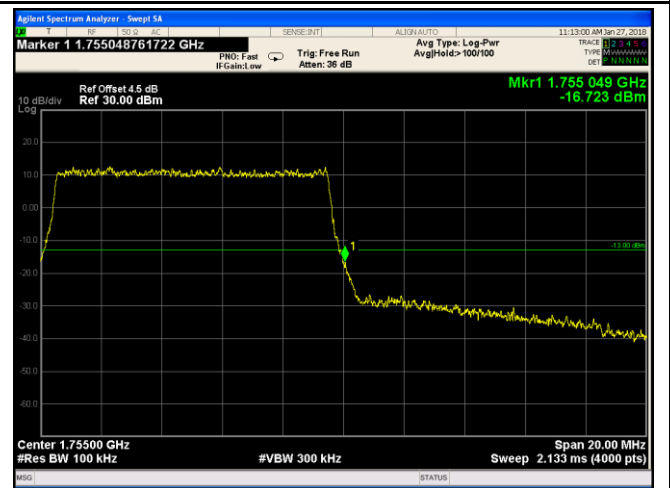
LTE Band IV - Low Channel QPSK-10



LTE Band IV - High Channel QPSK-10



LTE Band IV - Low Channel 16QAM-10



LTE Band IV - High Channel 16QAM-10



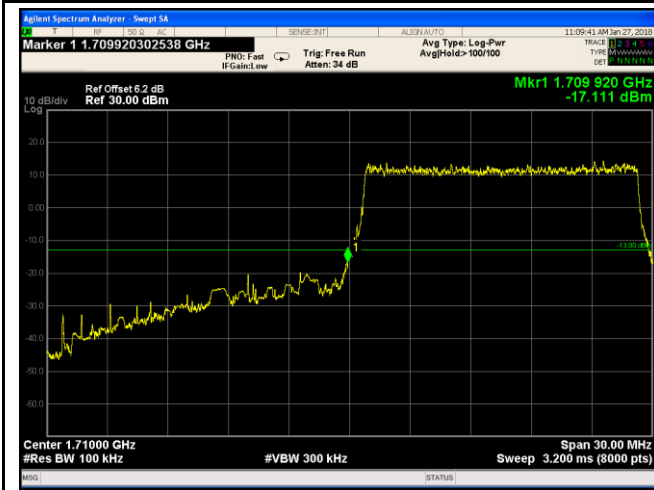
LTE Band IV - Low Channel QPSK-15



LTE Band IV - High Channel QPSK-15

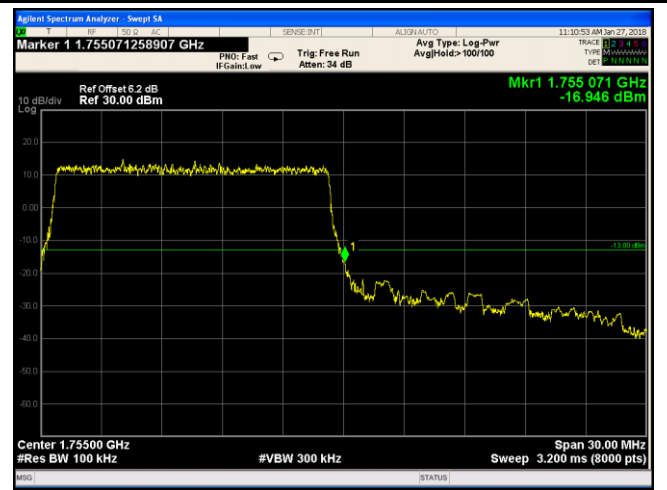
Note: Offset=Cable loss (4.5) + 10log
(150.3/100)=4.5+1.7=6.2 dB

Note: Offset=Cable loss (4.5) + 10log
(152.0/100)=4.5+1.7=6.2 dB



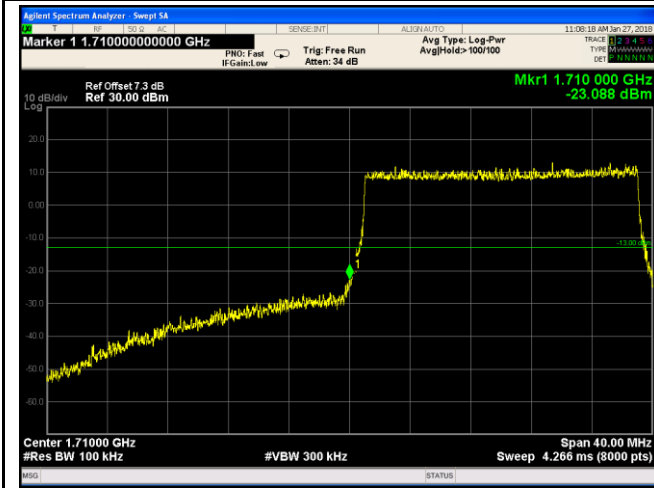
LTE Band IV - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(150.3/100)=4.5+1.7=6.2 dB



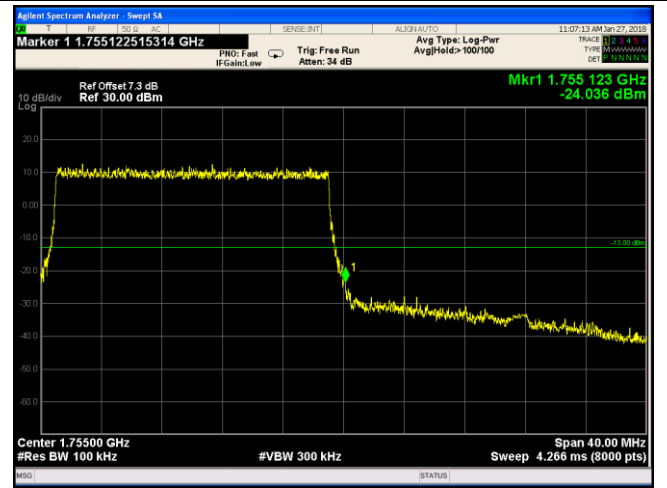
LTE Band IV - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(151.1/100)=4.5+1.7=6.2 dB



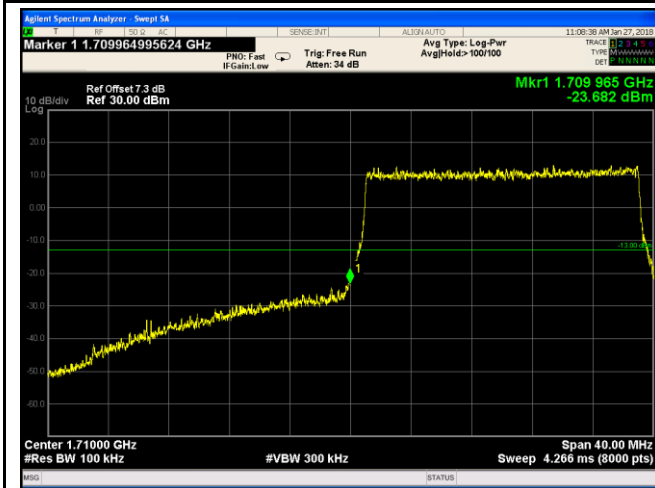
LTE Band IV - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(195.9/100)=4.5+2.8=7.3 dB



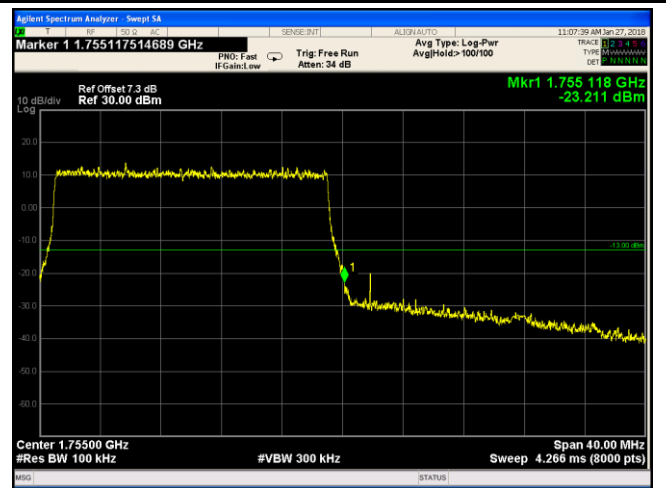
LTE Band IV - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(196.8/100)=4.5+2.8=7.3 dB



LTE Band IV - Low Channel 16QAM-20

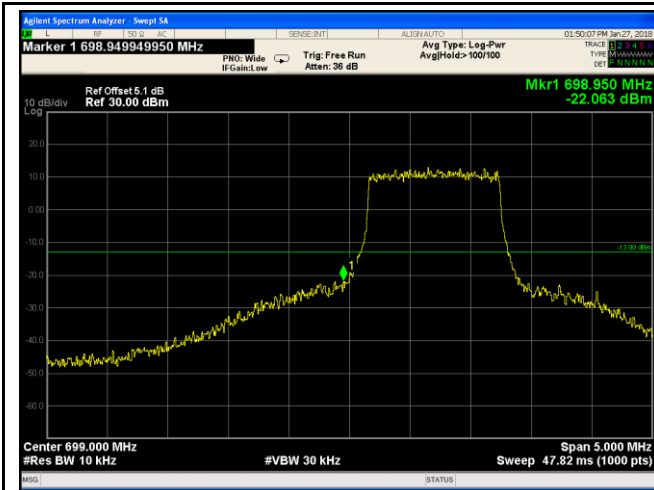
Note: Offset=Cable loss (4.5) + 10log
 (198.9/100)=4.5+2.8=7.3dB



LTE Band IV - High Channel 16QAM-20

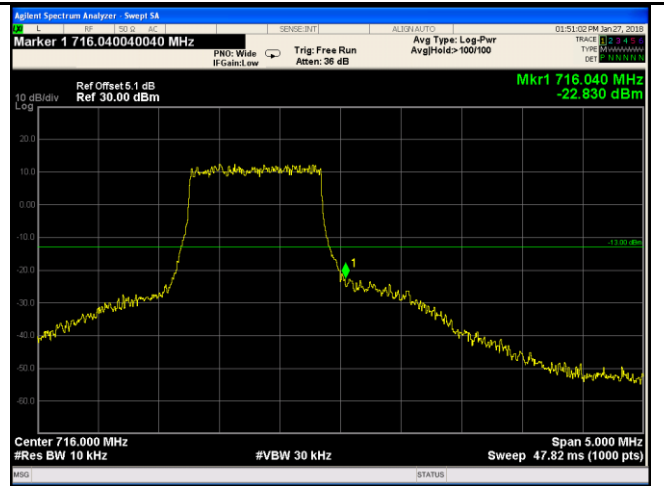
Note: Offset=Cable loss (4.5) + 10log
 (196.2/100)=4.5+2.8=7.3 dB

LTE Band XII (Part 27)



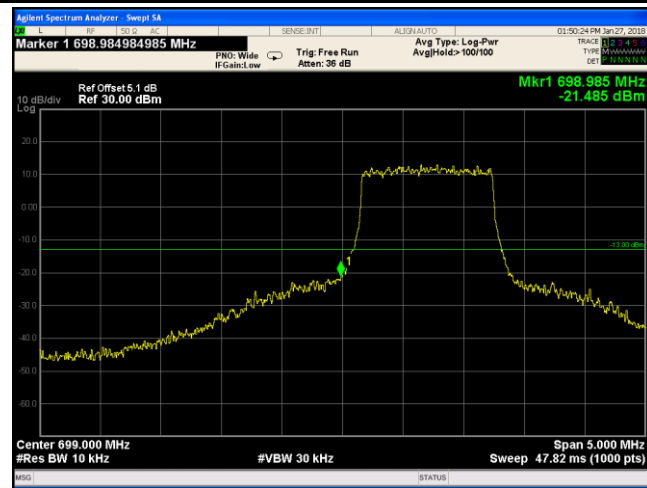
LTE Band XII - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.14/10)=4.0+1.1=5.1 dB



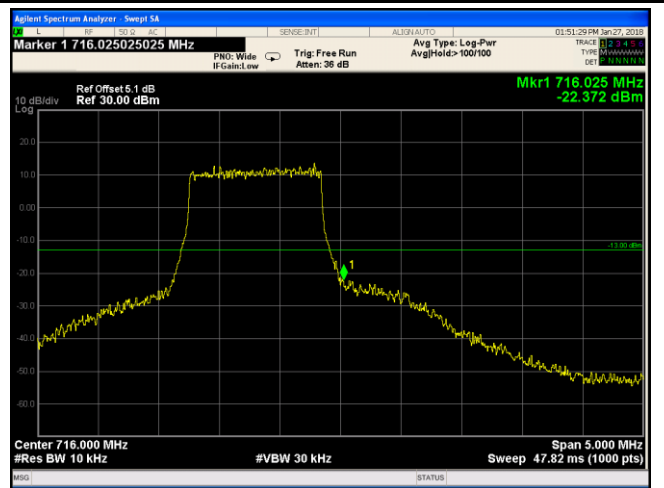
LTE Band XII - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.02/10)=4.0+1.1=5.1 dB



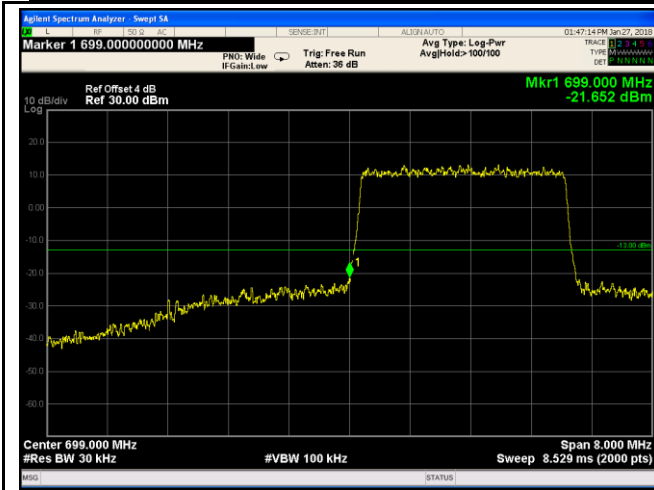
LTE Band XII - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.30/10)=4.0+1.1=5.1 dB



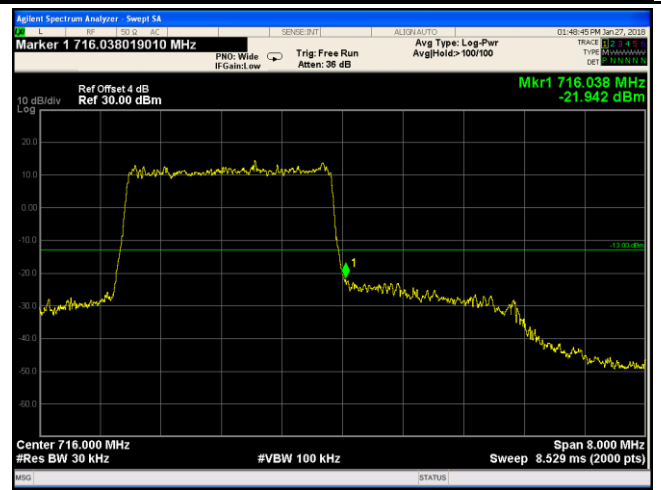
LTE Band XII - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(13.05/10)=4.0+1.1=5.1 dB



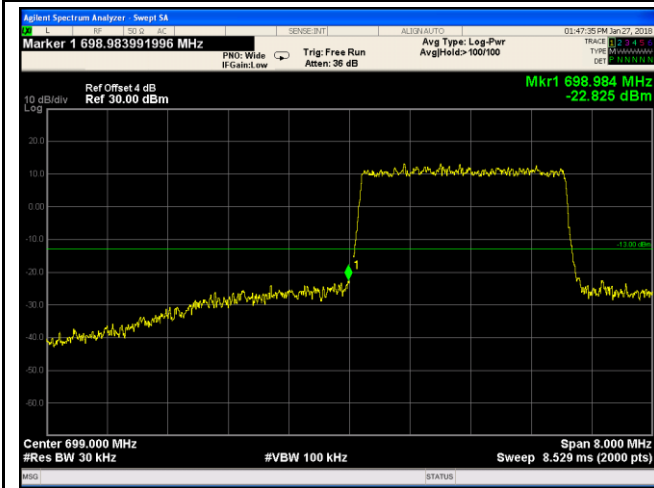
LTE Band XII - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(29.87/30)=4.0+0.0=4.0 dB



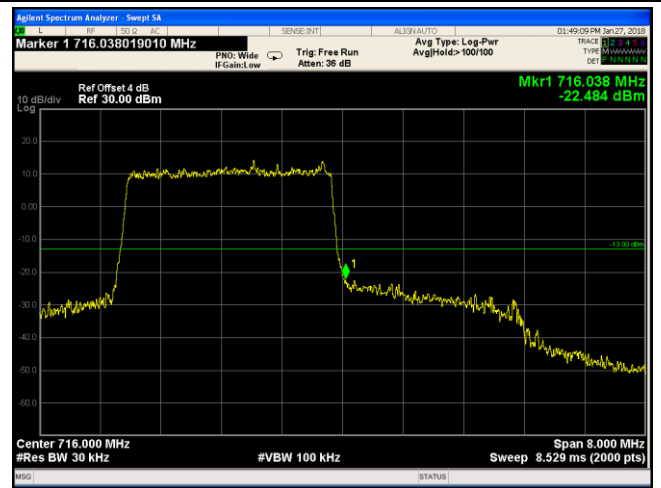
LTE Band XII - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
(30.02/30)=4.0+0.0=4.0 dB



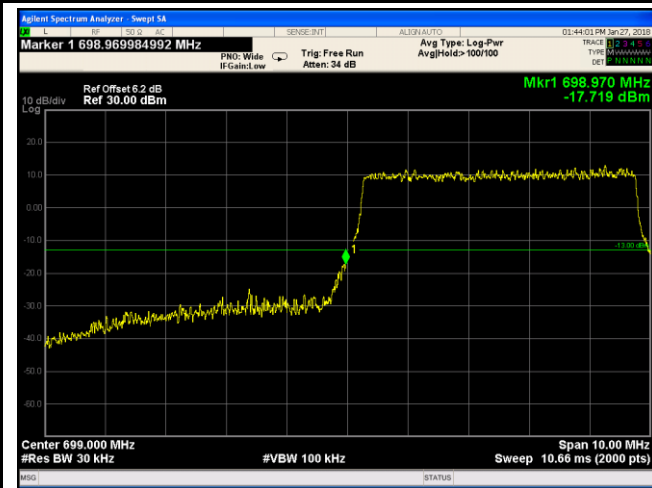
LTE Band XII - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(30.29/30)=4.0+0.0=4.0 dB



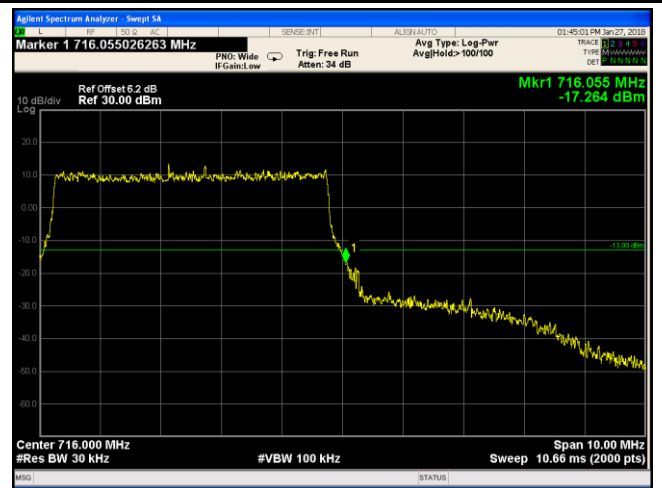
LTE Band XII - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
(30.24/30)=4.0+0.0=4.0 dB



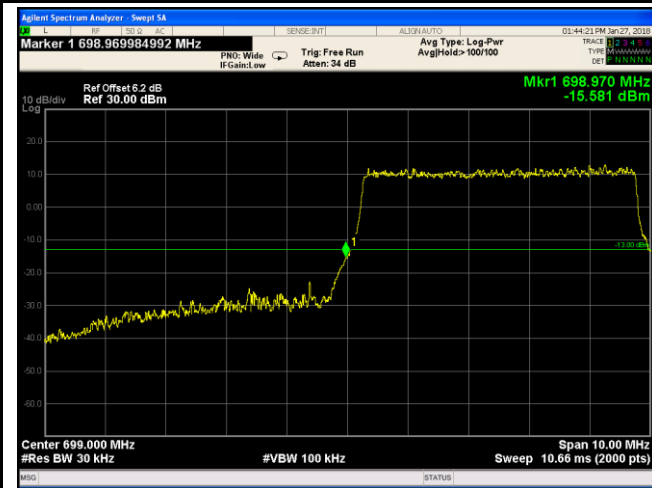
LTE Band XII - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(51.56/30)=4.0+2.2=6.2 dB



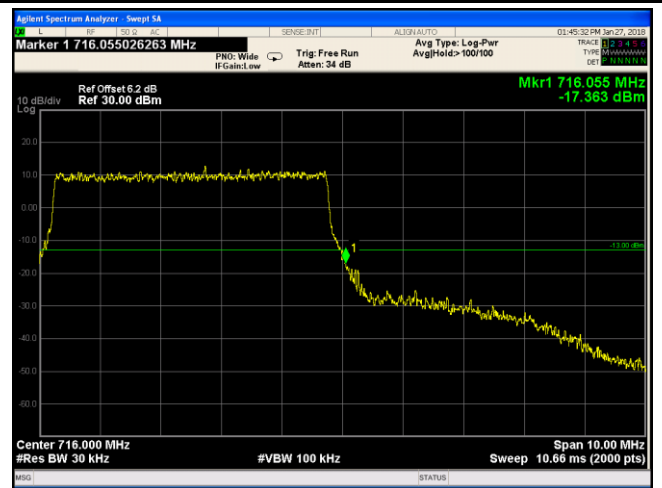
LTE Band XII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(52.02/30)=4.0+2.2=6.2dB



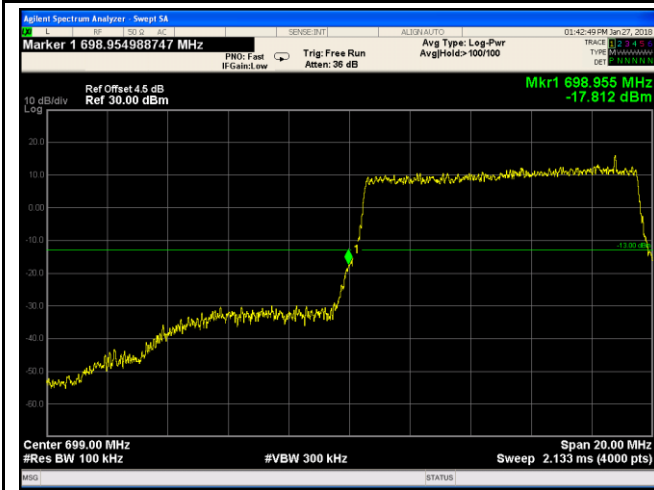
LTE Band XII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
(52.24/30)=4.0+2.2=6.2 dB

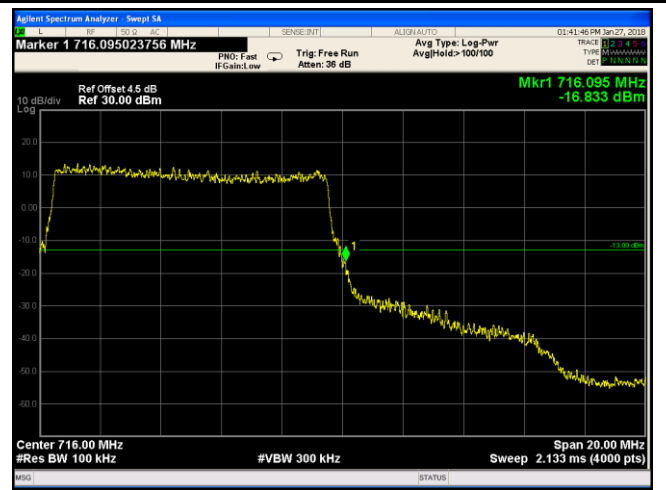


LTE Band XII - High Channel 16QAM-5

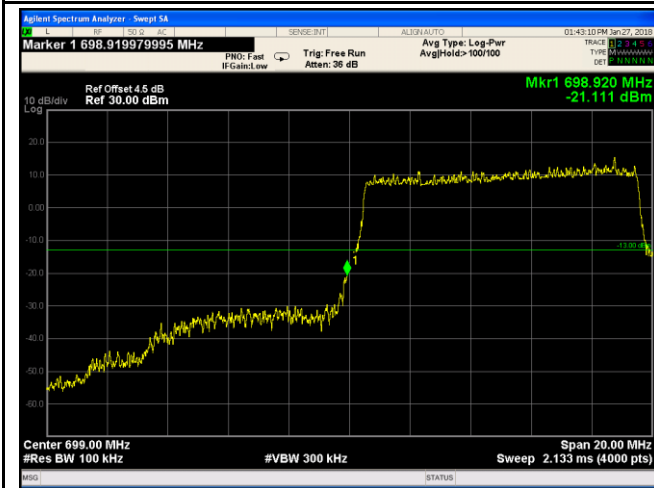
Note: Offset=Cable loss (4.5) + 10log
(52.97/30)=4.0+2.2=6.2 dB



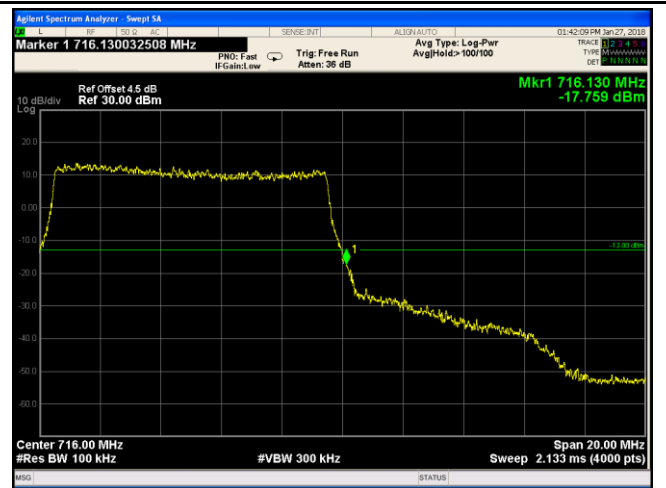
LTE Band XII - Low Channel QPSK-10



LTE Band XII - High Channel QPSK-10

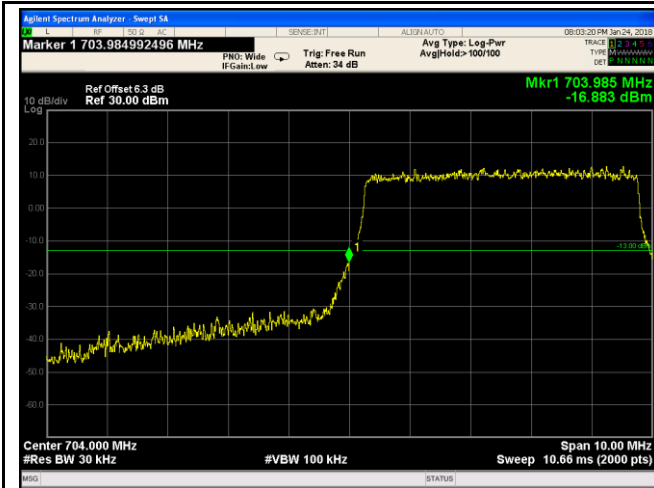


LTE Band XII - Low Channel 16QAM-10



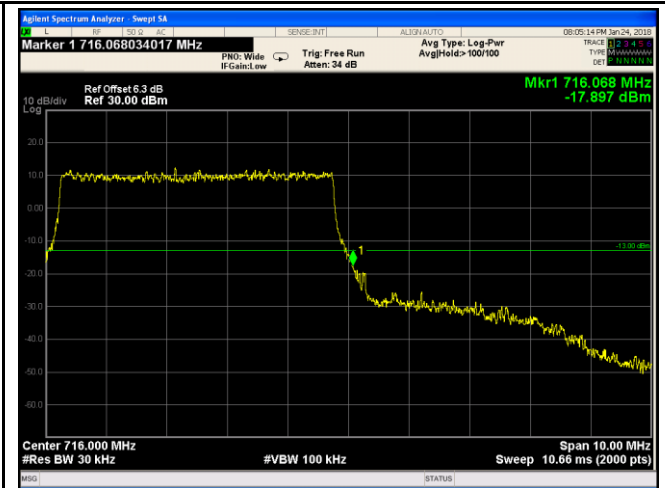
LTE Band XII - High Channel 16QAM-10

LTE Band XVII (Part 27)



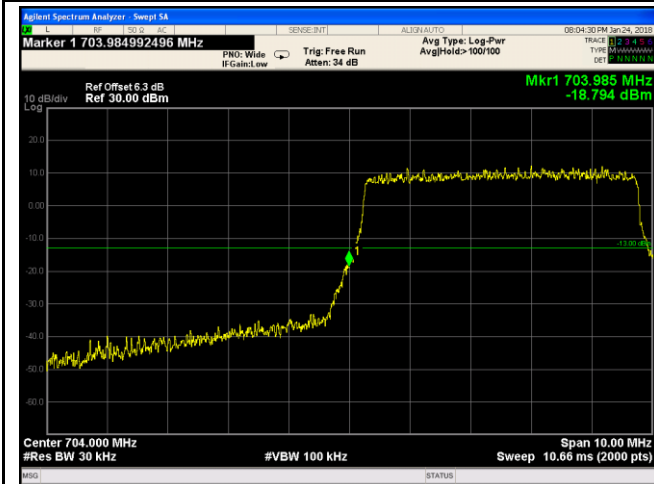
LTE Band XVII - Low Channel QPSK-5

Note: Offset=Cable loss (4.0) + 10log
(51.73/30)=4.0+2.3=6.3 dB



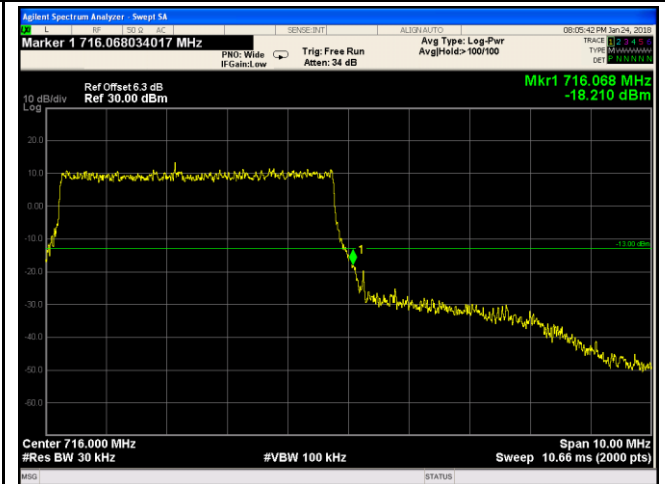
LTE Band XVII - High Channel QPSK-5

Note: Offset=Cable loss (4.0) + 10log
(51.96/30)=4.0+2.3=6.3 dB



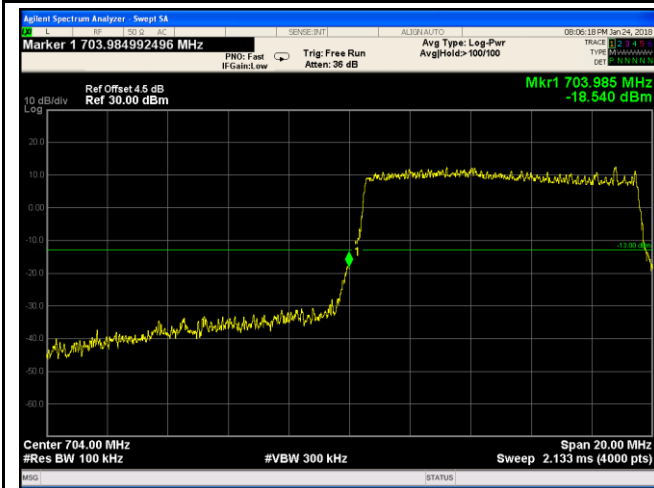
LTE Band XVII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.0) + 10log
(51.79/30)=4.0+2.3=6.3 dB

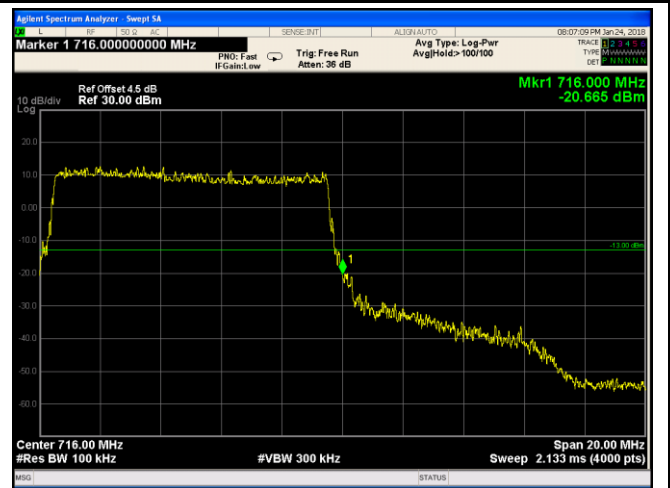


LTE Band XVII - High Channel 16QAM-5

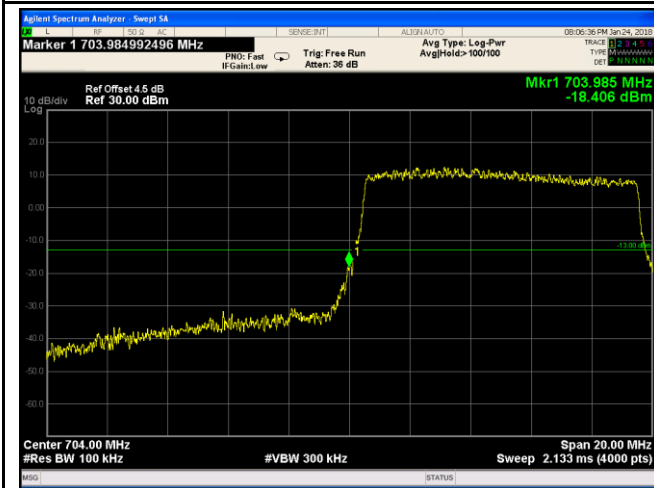
Note: Offset=Cable loss (4.0) + 10log
(51.91/30)=4.0+2.3=6.3 dB



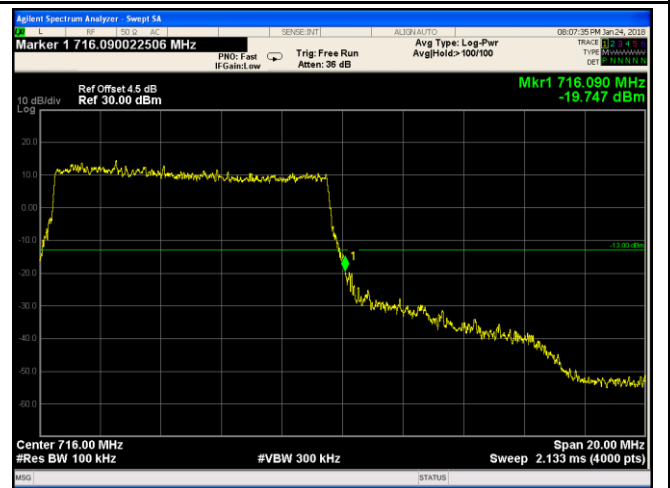
LTE Band XVII - Low Channel QPSK-10



LTE Band XVII - High Channel QPSK-10



LTE Band XVII - Low Channel 16QAM-10

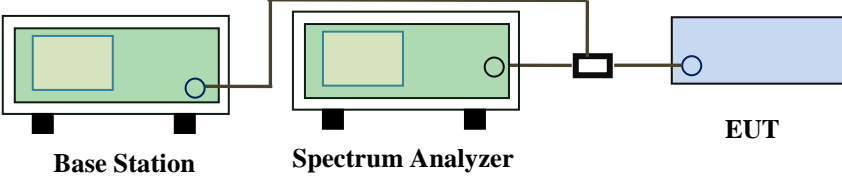


LTE Band XVII - High Channel 16QAM-10

6.8 Band Edge 27.53(m)

| | |
|----------------------|------------------|
| Temperature | 25 °C |
| Relative Humidity | 57% |
| Atmospheric Pressure | 1024mbar |
| Test date : | January 24, 2018 |
| Tested By : | Aaron Liang |

Requirement(s):

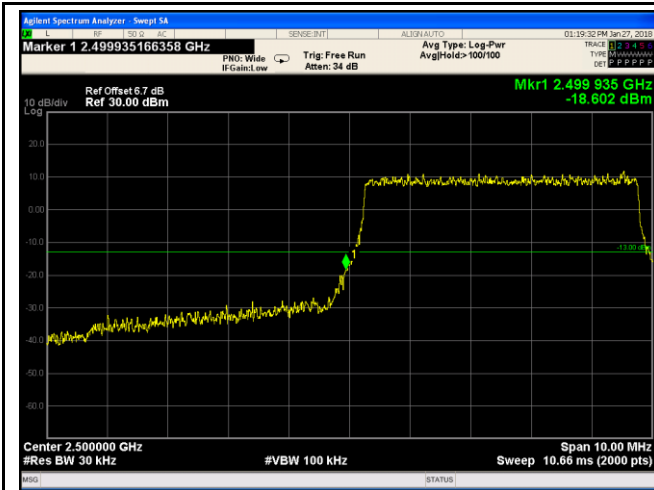
| Spec | Requirement | Applicable |
|----------------|---|-------------------------------------|
| §27.53(m) | According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than $43+10\log(P)$ dB at the channel edge, the limit of emission equal to -13dBm. And $55+10\log(P)$ dB at 5.5MHz from the channel edges, the limit of emission equal to -25dBm. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. | <input checked="" type="checkbox"/> |
| Test Setup |  <p style="text-align: center;"> Base Station Spectrum Analyzer EUT </p> | |
| Test Procedure | <ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers. | |
| Remark | | |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | |

Test Data Yes N/A
 Test Plot Yes (See below) N/A

LTE Band VII (Part 27) result

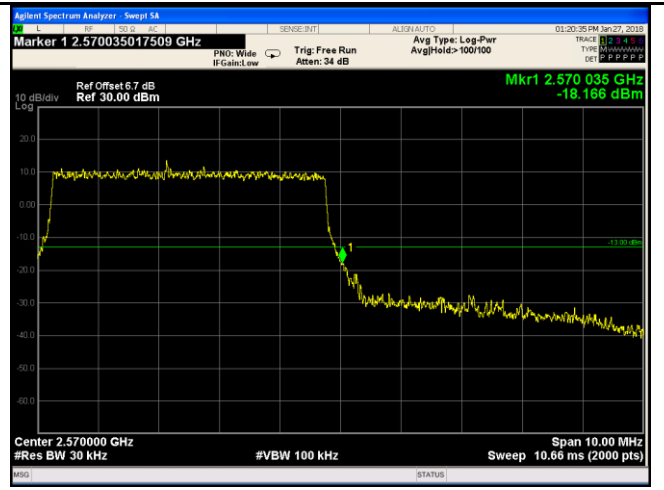
| BW(MHz) | Channel | Frequency (MHz) | Mode | Emission (dBm) | Limit (dBm) |
|---------|---------|-----------------|-------|----------------|-------------|
| 5 | 20775 | 2500 | 16QAM | -21.485 | -13 |
| | | | QPSK | -22.063 | -13 |
| 5 | 21425 | 2570 | 16QAM | -22.372 | -13 |
| | | | QPSK | -22.83 | -13 |
| 10 | 20800 | 2500 | 16QAM | -22.825 | -13 |
| | | | QPSK | -21.652 | -13 |
| 10 | 21400 | 2570 | 16QAM | -22.484 | -13 |
| | | | QPSK | -21.942 | -13 |
| 15 | 20825 | 2500 | 16QAM | -15.581 | -13 |
| | | | QPSK | -17.719 | -13 |
| 15 | 21400 | 2570 | 16QAM | -17.363 | -13 |
| | | | QPSK | -17.264 | -13 |
| 20 | 20850 | 2500 | 16QAM | -21.111 | -13 |
| | | | QPSK | -17.812 | -13 |
| 20 | 21350 | 2571 | 16QAM | -17.759 | -13 |
| | | | QPSK | -16.833 | -13 |

LTE Band VII (Part 27)



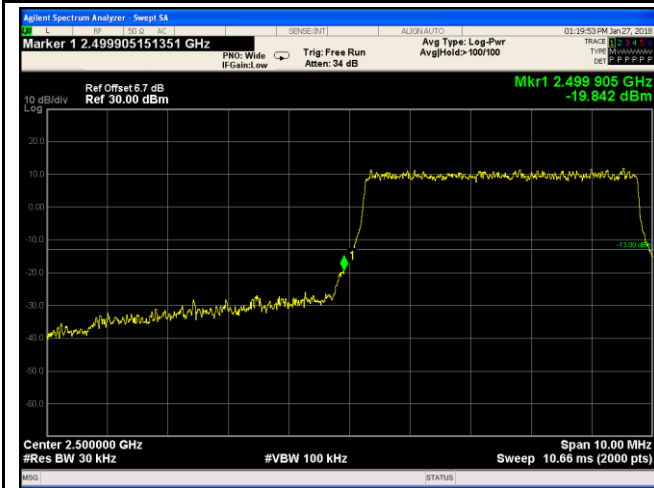
LTE Band VII - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
 (51.50/30)=4.5+2.2=6.7 dB



LTE Band VII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
 (50.36/30)=4.5+2.2=6.7 dB



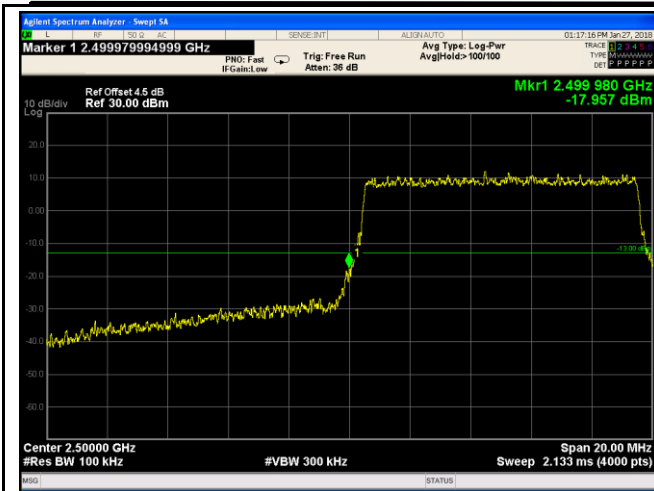
LTE Band VII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 (51.49/30)=4.5+2.2=6.7 dB

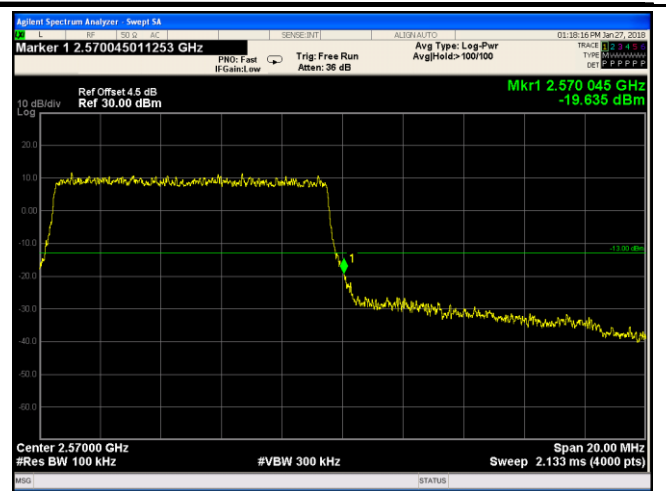


LTE Band VII - High Channel 16QAM-5

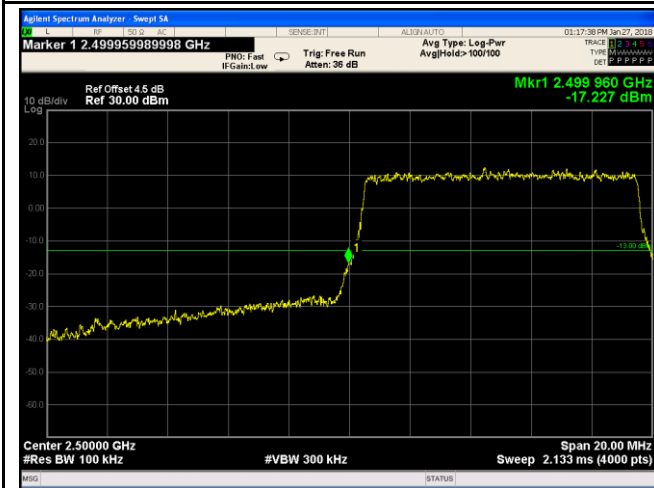
Note: Offset=Cable loss (4.5) + 10log
 (51.96/30)=4.5+2.2=6.7 dB



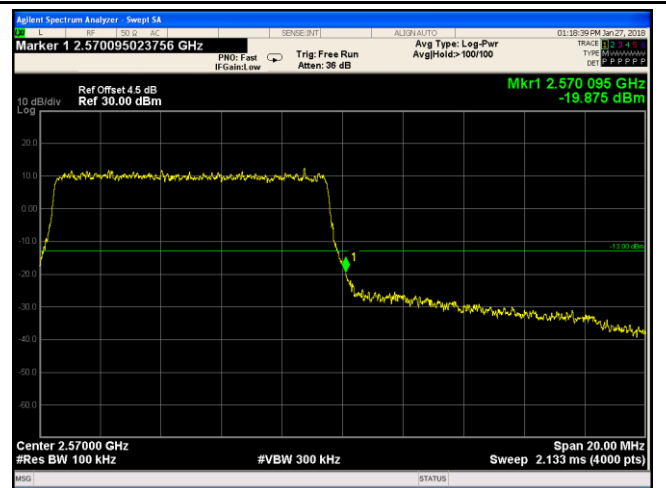
LTE Band VII - Low Channel QPSK-10



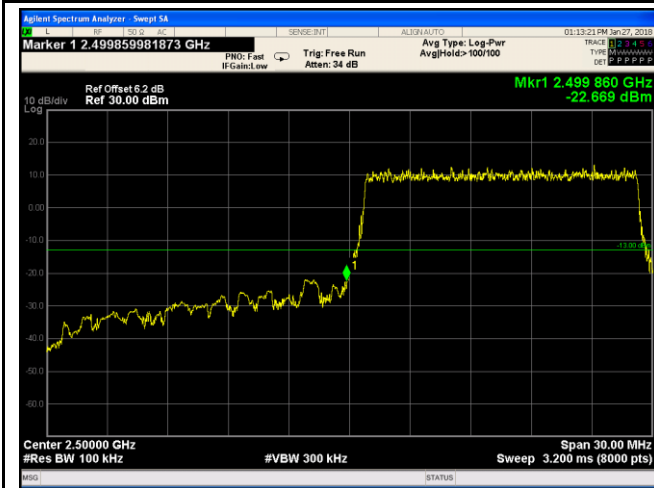
LTE Band VII - High Channel QPSK-10



LTE Band VII - Low Channel 16QAM-10

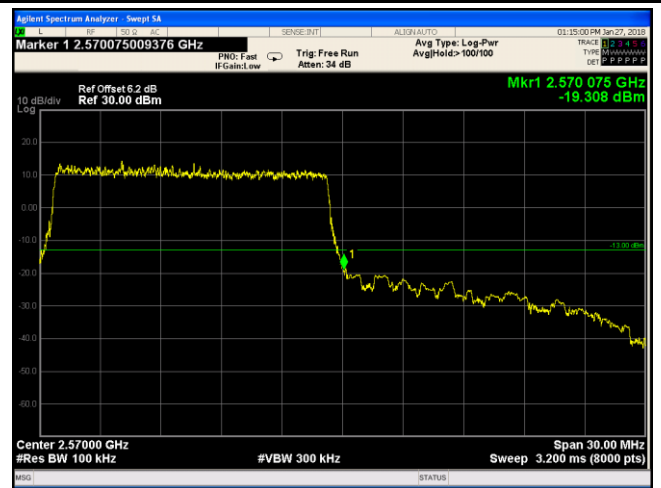


LTE Band VII - High Channel 16QAM-10



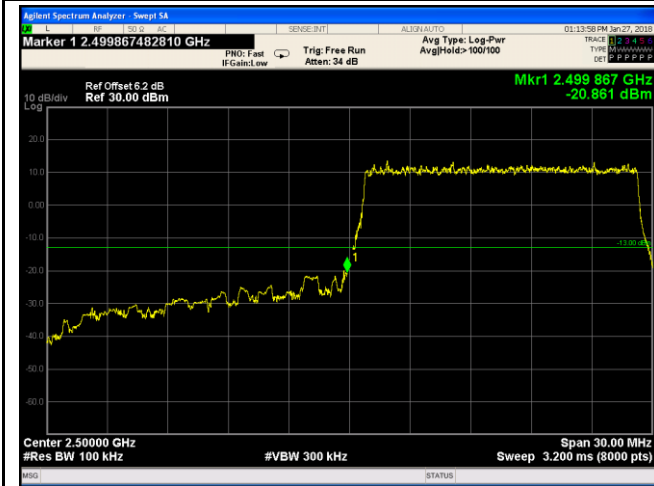
LTE Band VII - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
(150.2/100)=4.5+1.7=6.2 dB



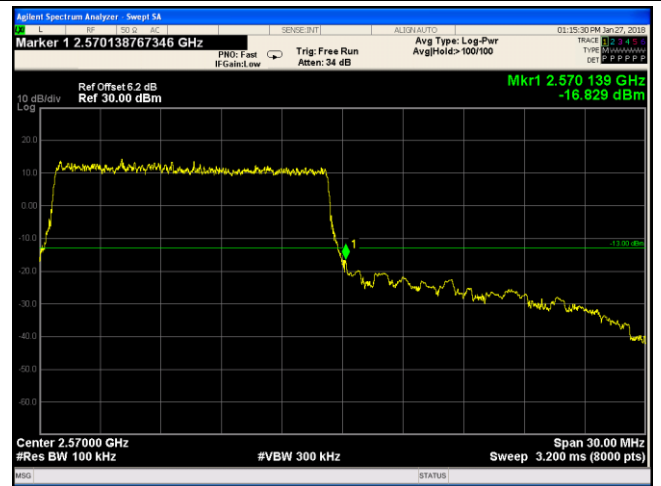
LTE Band VII - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
(151.5/100)=4.5+1.7=6.2 dB



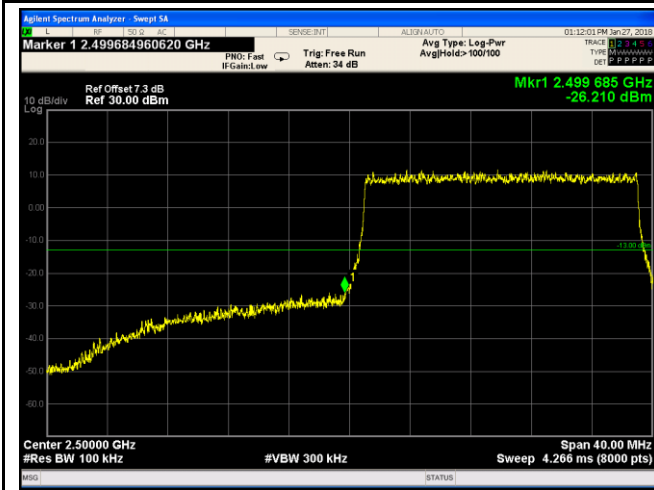
LTE Band VII - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(151.8/100)=4.5+1.7=6.2 dB



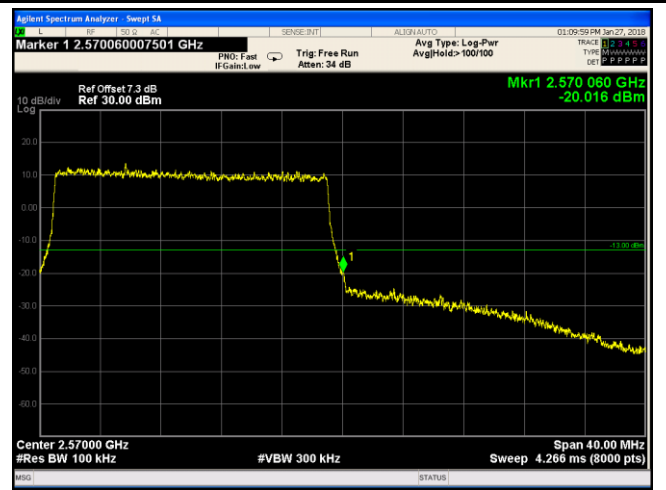
LTE Band VII - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
(152.2/100)=4.5+1.7=6.2 dB



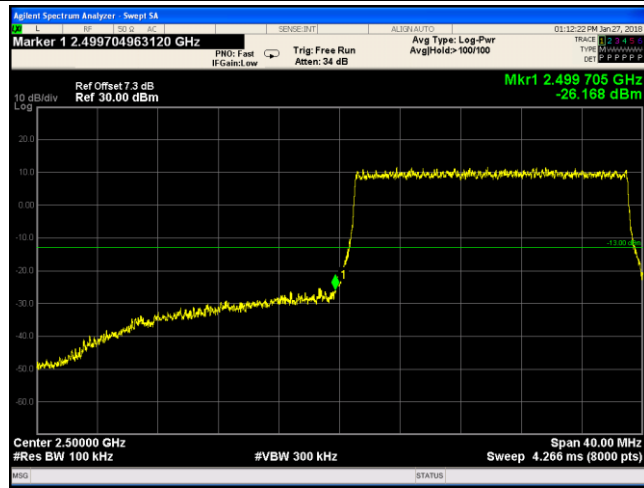
LTE Band VII - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(196.4/100)=4.5+2.8=7.3dB



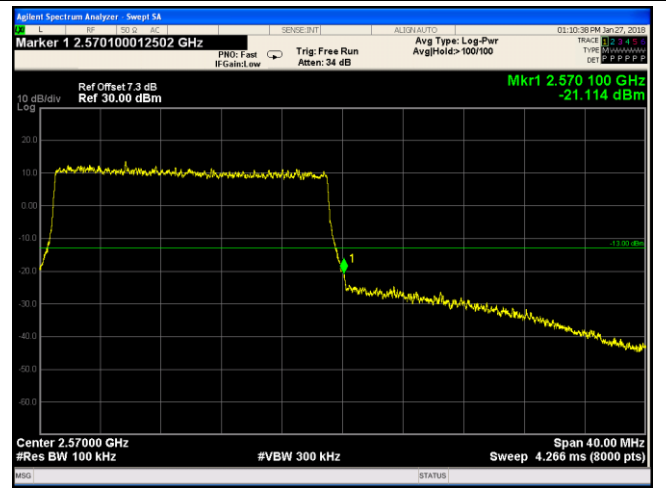
LTE Band VII - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
(195.2/100)=4.5+2.8=7.3dB



LTE Band VII - Low Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log
(195.5/100)=4.5+2.8=7.3 dB



LTE Band VII - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log
(193.2/100)=4.5+2.8=7.3 dB