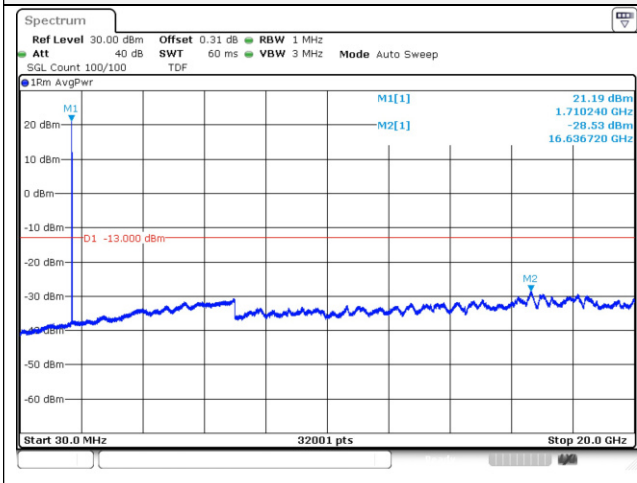
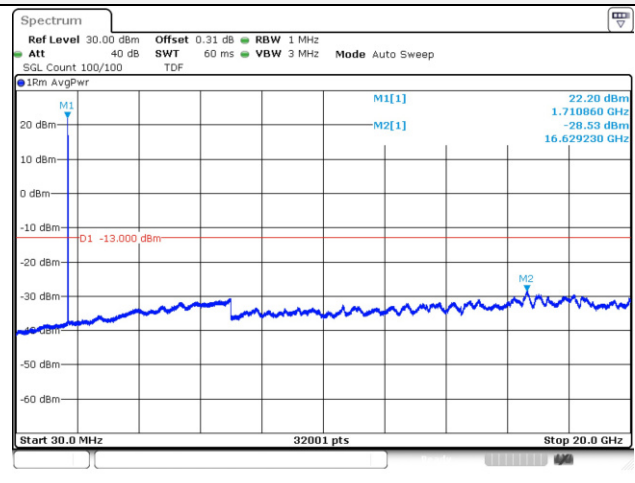


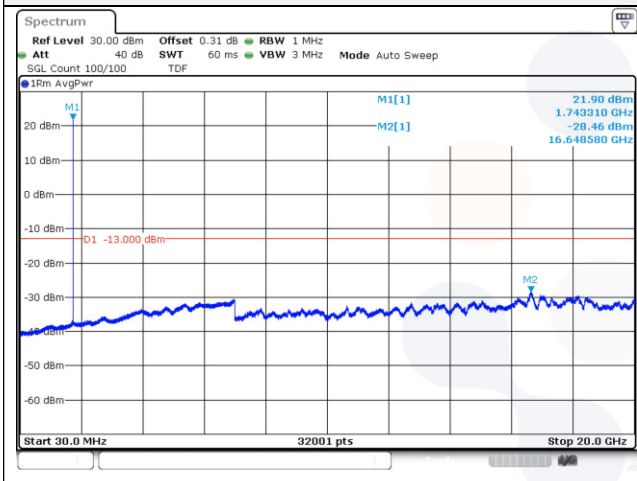
**5M BW QPSK Low ch.**



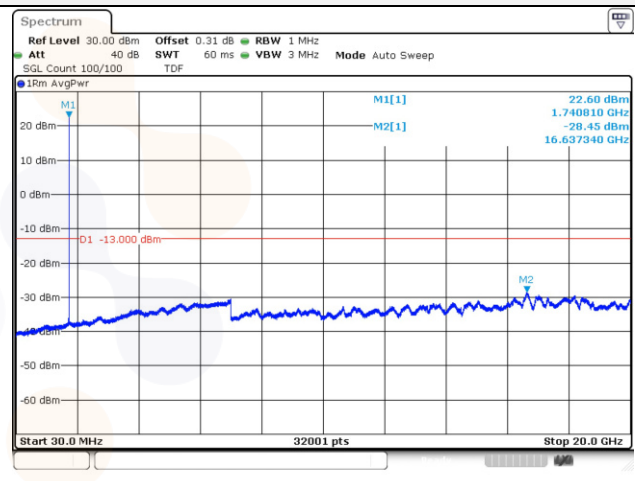
**10M BW QPSK Low ch.**



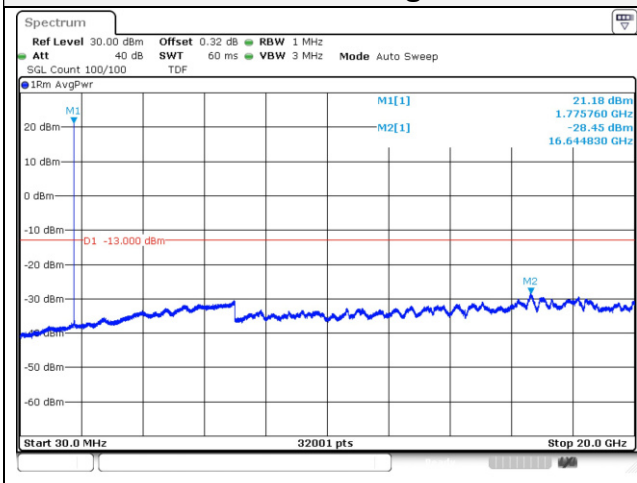
**5M BW QPSK Mid ch.**



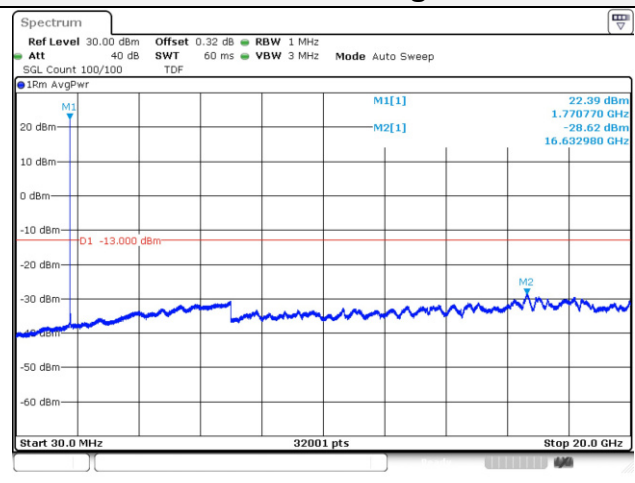
**10M BW QPSK Mid ch.**



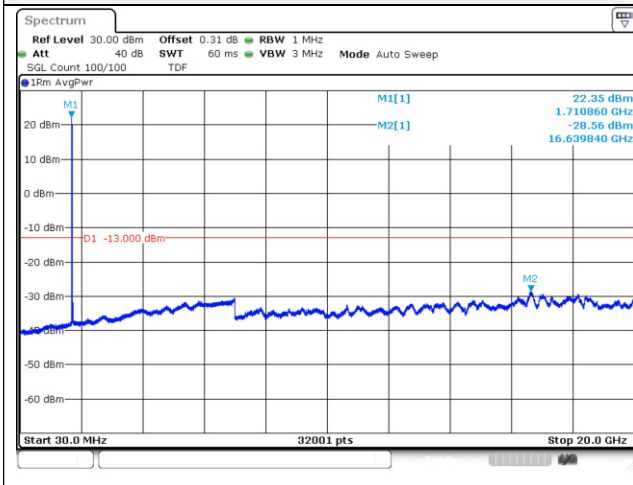
**5M BW QPSK High ch.**



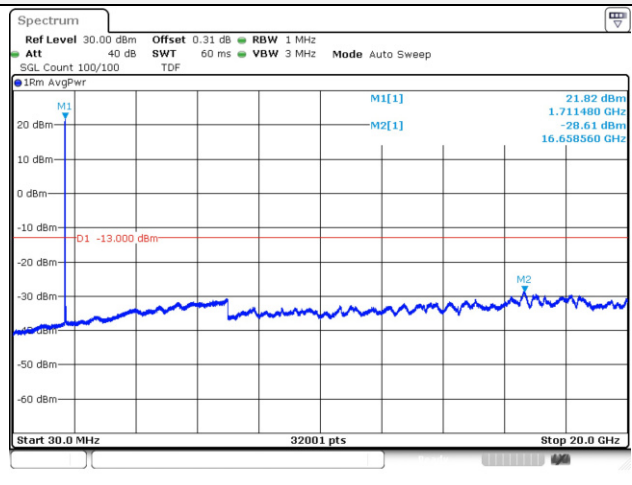
**10M BW QPSK High ch.**



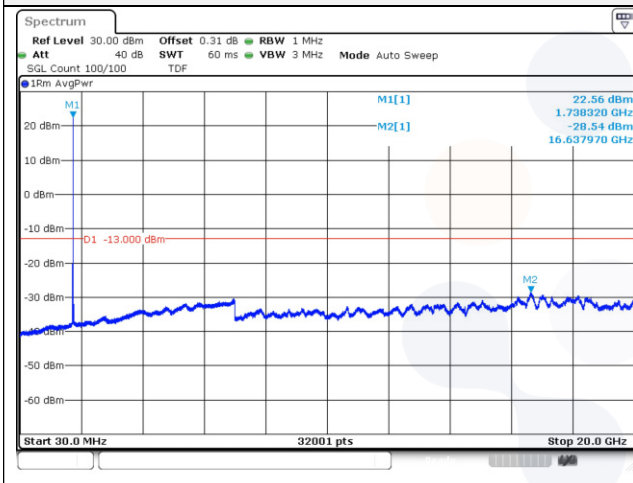
**15M BW QPSK Low ch.**



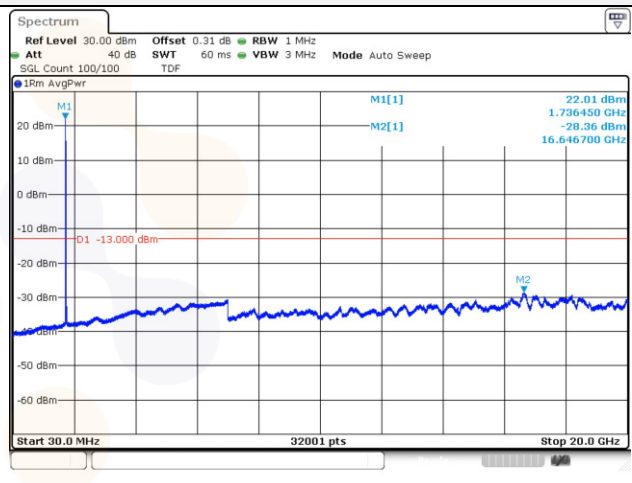
**20M BW QPSK Low ch.**



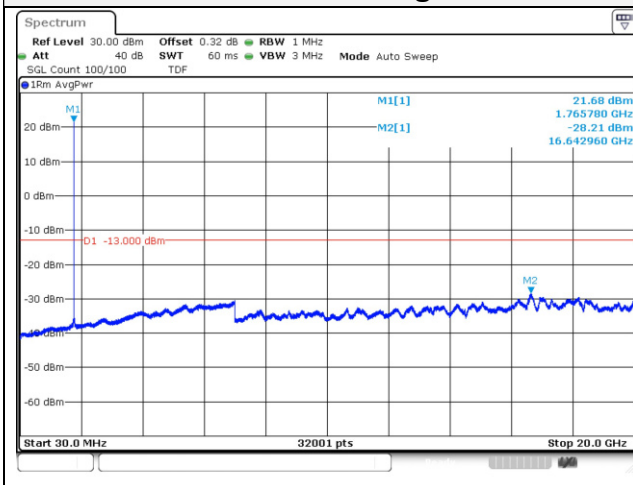
**15M BW QPSK Mid ch.**



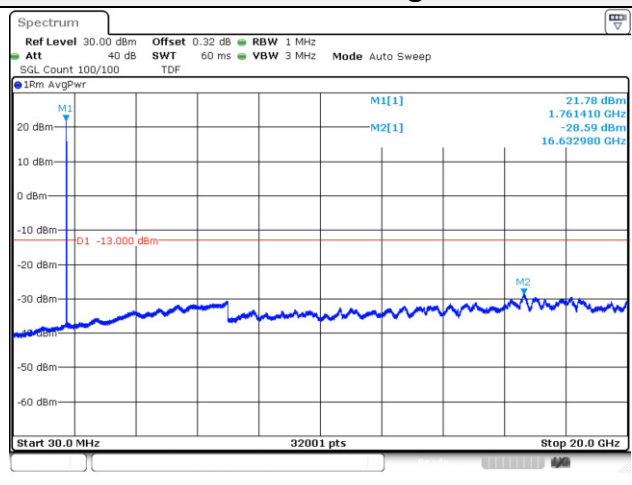
**20M BW QPSK Mid ch.**



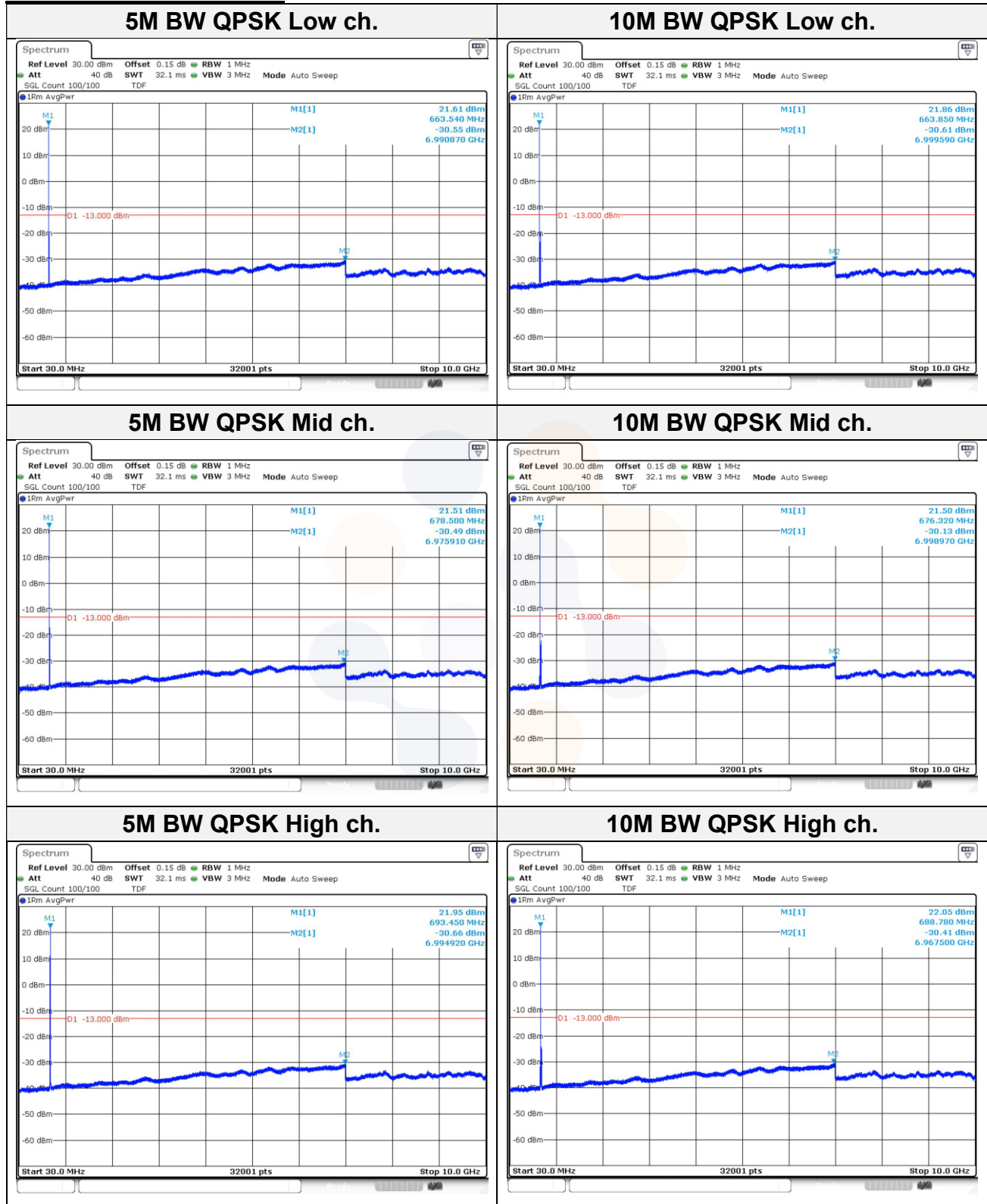
**15M BW QPSK High ch.**



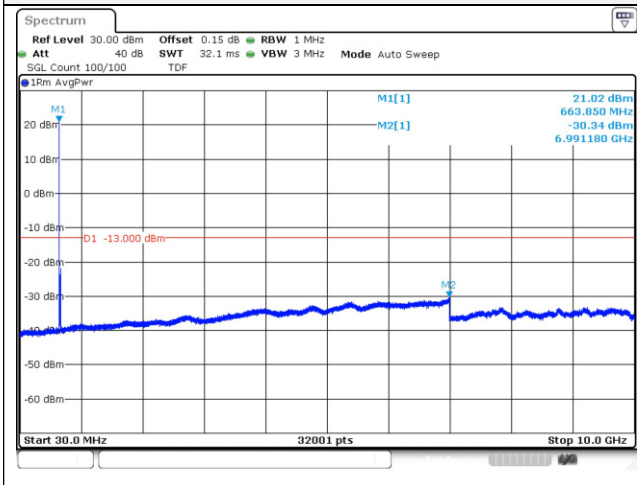
**20M BW QPSK High ch.**



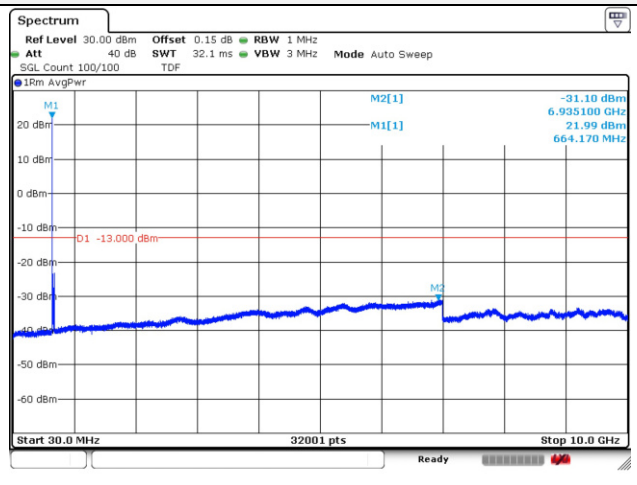
**Test mode: LTE Band 71**



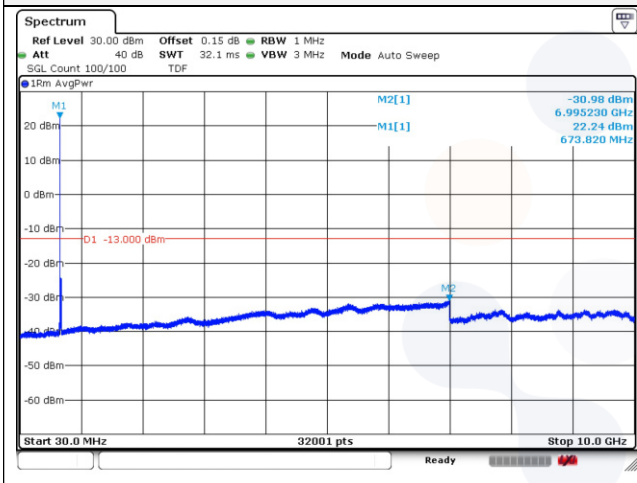
**15M BW QPSK Low ch.**



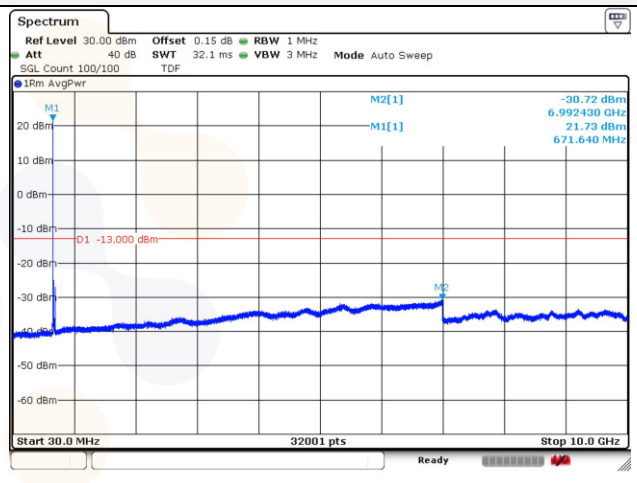
**20M BW QPSK Low ch.**



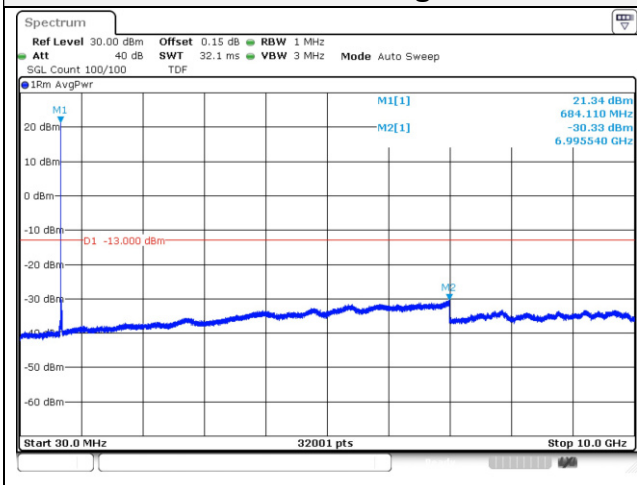
**15M BW QPSK Mid ch.**



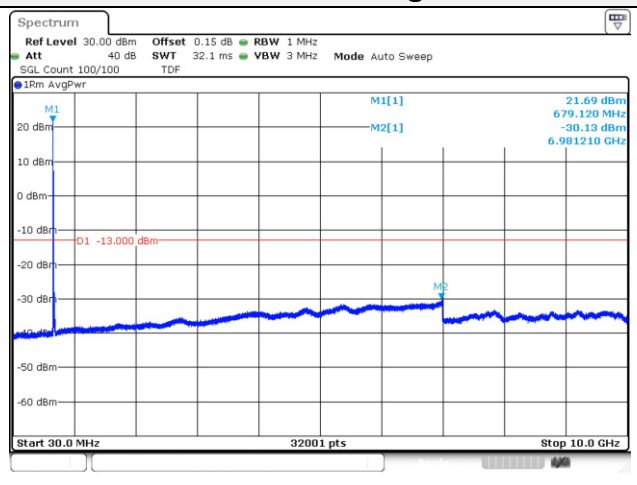
**20M BW QPSK Mid ch.**



**15M BW QPSK High ch.**

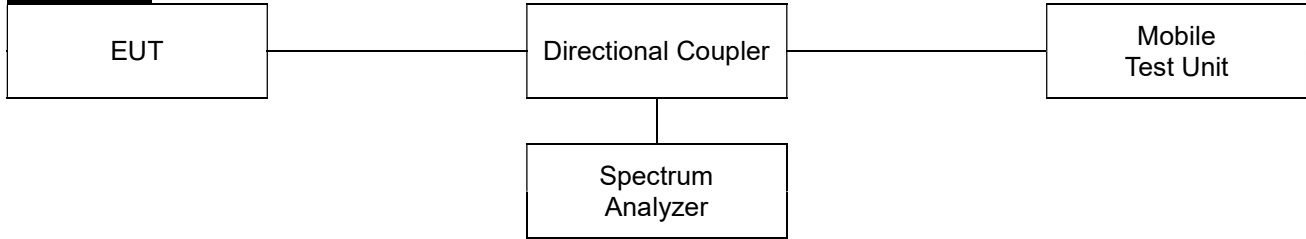


**20M BW QPSK High ch.**



## 7.5. Peak to Average Power Ratio (PAPR)

### Test setup



### Limit

According to §24.232(d), §27.50(d)(5) and RSS-130(4.6), RSS-132(5.4), RSS-133(6.4), RSS-139(5.5), the peak-to-average ratio(PAR) of the transmission must not exceed 13 dB.

### Test procedure

971168 D01 v03r01 - Section 5.7.2  
971168 D02 v02r01 – Section VII  
ANSI 63.26-2015 – Section 5.2.3.4

### Test settings

#### 5.2.3.4 Measurement of peak power in a broadband noise-like signal using CCDF

- 1) Set resolution/measurement bandwidth  $\geq$  OBW or specified reference bandwidth
- 2) Set the number of counts to a value that stabilizes the measured CCDF curve.
- 3) Set the measurement interval as follows:
  - a) For continuous transmissions, set to the greater of [10 x (number of points in sweep) x (transmission symbol period)] or 1 ms.
  - b) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
  - c) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- 4) Record the maximum PAPR level associated with a probability of 0.1%

#### 5.2.6 Peak-to-average power ratio

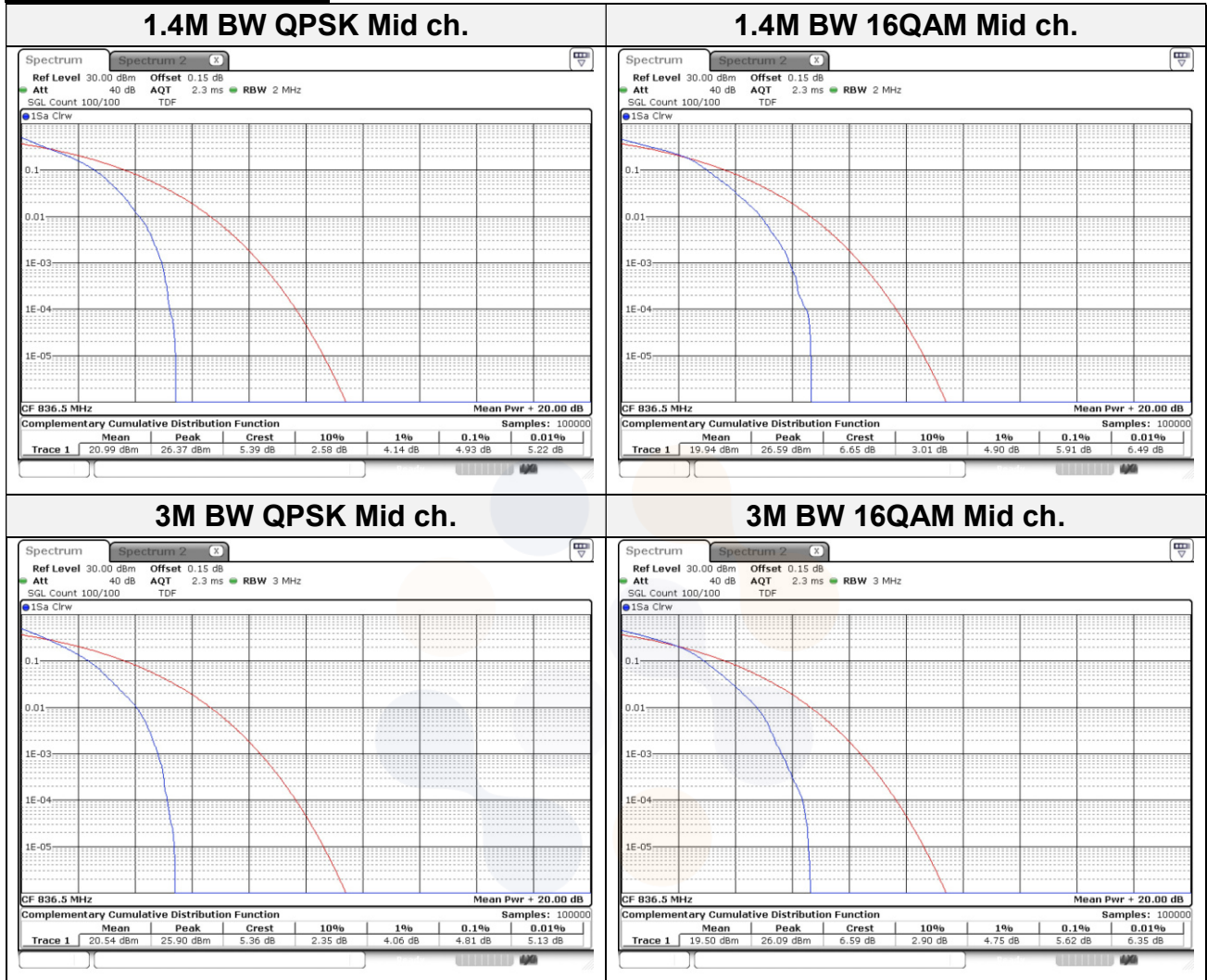
Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as  $P_{PK}$ .

Use one of the applicable procedure presented 5.2(ANSI C63.26-2015) to measure the total average power and record as  $P_{AG}$ . Determine the P.A.P.R from:

$$PAPR(\text{dB}) = P_{PK}(\text{dBm or dBW}) - P_{AG}(\text{dBm or dBW})$$

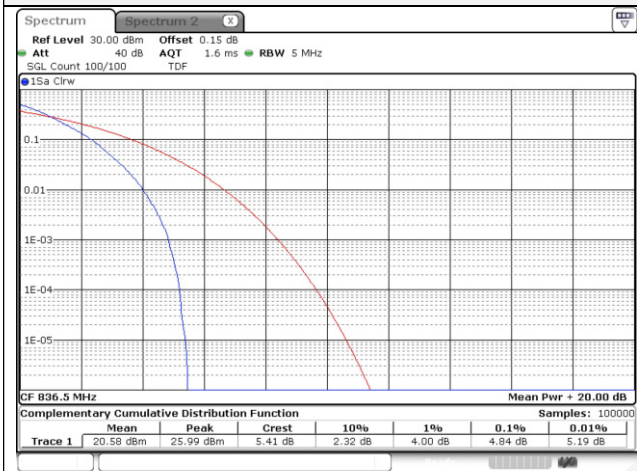
**Test results**

**Test mode: LTE Band 5**

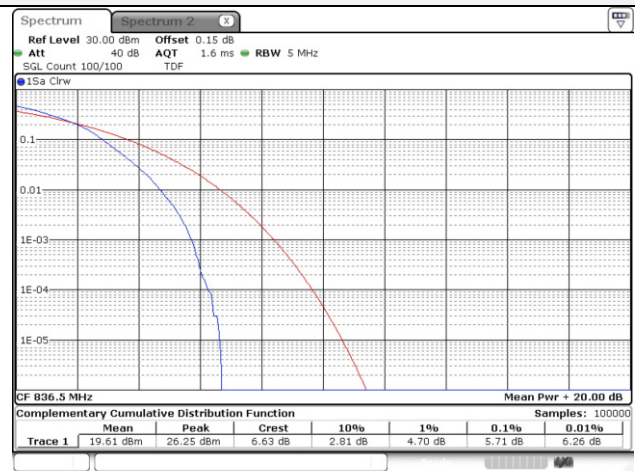




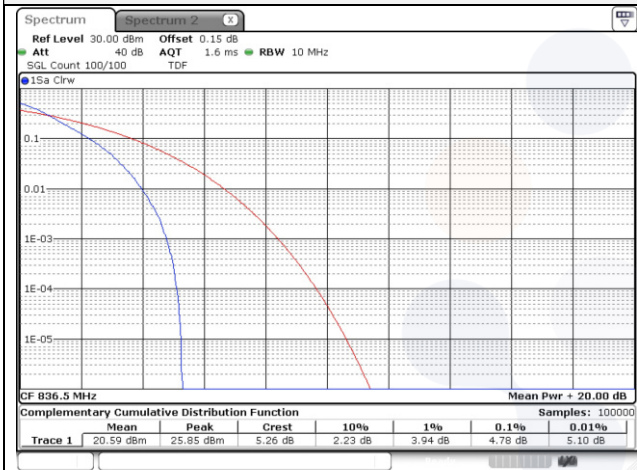
**5M BW QPSK Mid ch.**



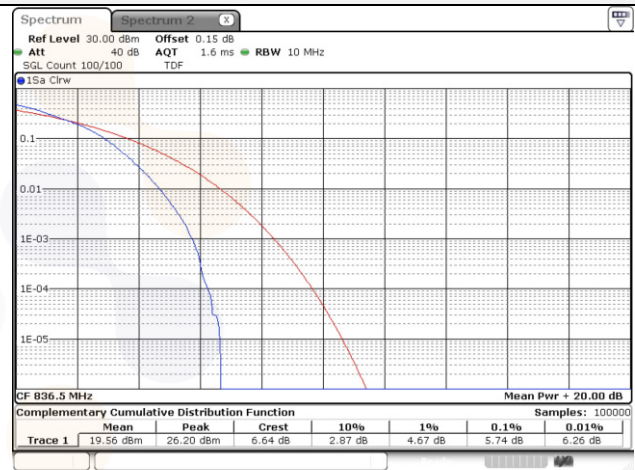
**5M BW 16QAM Mid ch.**



**10M BW QPSK Mid ch.**

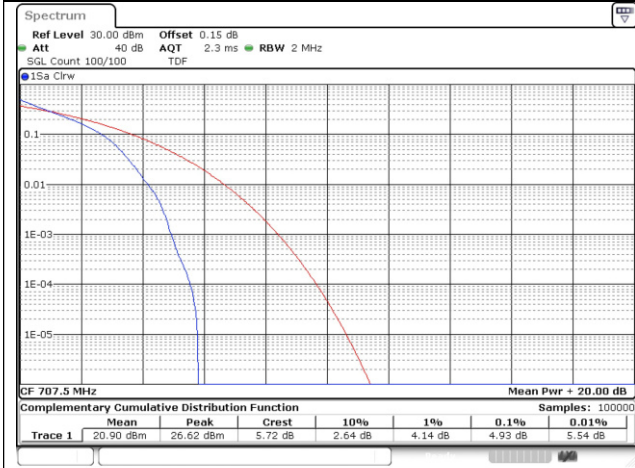


**10M BW 16QAM Mid ch.**

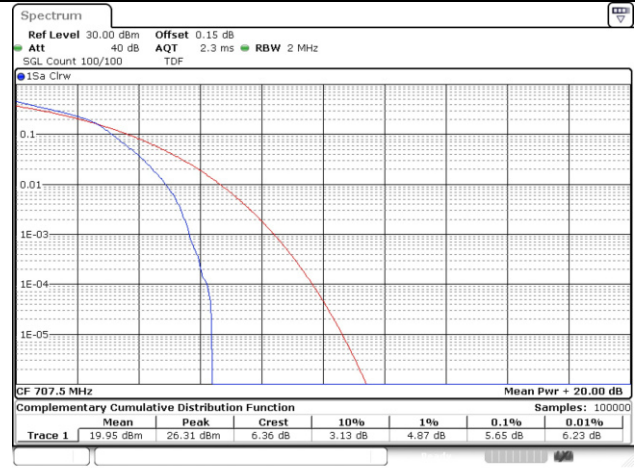


**Test mode: LTE Band 12**

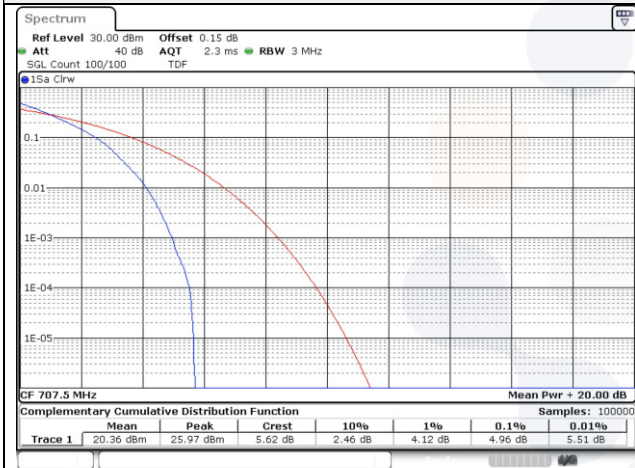
**1.4M BW QPSK Mid ch.**



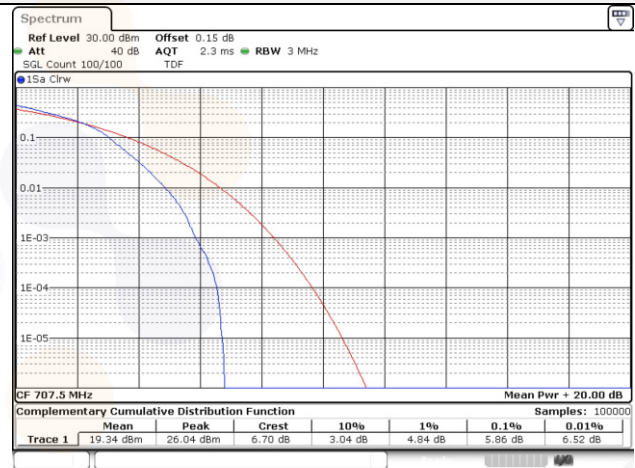
**1.4M BW 16QAM Mid ch.**



**3M BW QPSK Mid ch.**

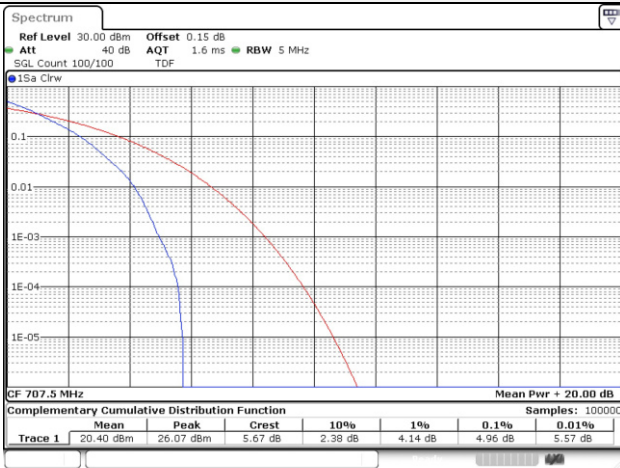


**3M BW 16QAM Mid ch.**

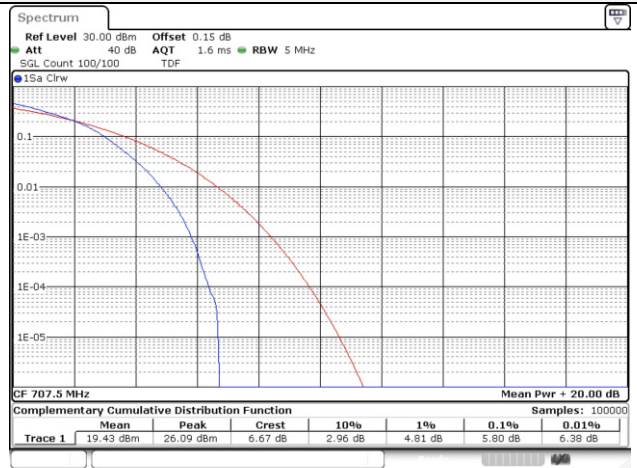




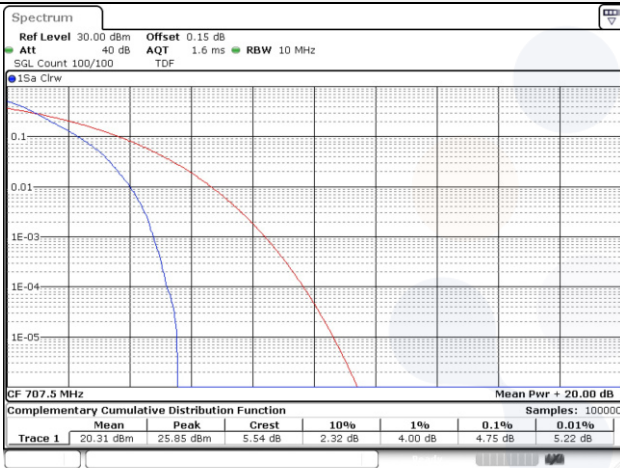
**5M BW QPSK Mid ch.**



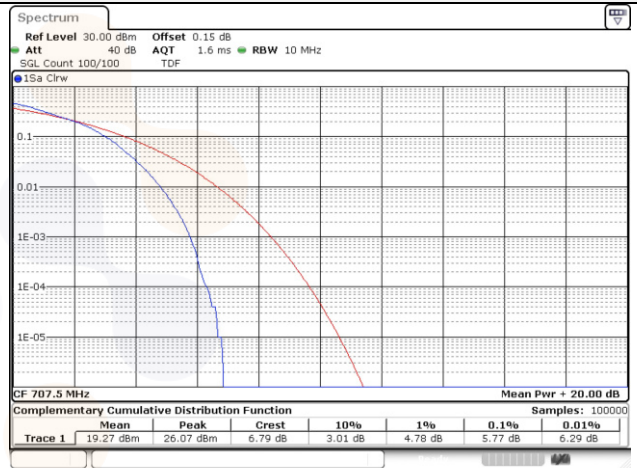
**5M BW 16QAM Mid ch.**



**10M BW QPSK Mid ch.**



**10M BW 16QAM Mid ch.**



**Test mode: LTE Band 13**

