

| CHANNEL BANDWIDTH: 15MHz |                 |                              |       |       |                       |       |       |
|--------------------------|-----------------|------------------------------|-------|-------|-----------------------|-------|-------|
| CHANNEL                  | Frequency (MHz) | 99% OCCUPIED Bandwidth (MHz) |       |       | 26 dB bandwidth (MHz) |       |       |
|                          |                 | QPSK                         | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 133197                   | 670.5           | 13.47                        | 13.48 | 13.48 | 14.43                 | 14.44 | 14.49 |
| 133297                   | 680.5           | 13.33                        | 13.35 | 13.34 | 14.31                 | 14.23 | 14.21 |
| 133397                   | 690.5           | 13.43                        | 13.42 | 13.41 | 14.47                 | 14.39 | 14.42 |



| CHANNEL BANDWIDTH: 20MHz |                 |                              |       |       |                       |       |       |
|--------------------------|-----------------|------------------------------|-------|-------|-----------------------|-------|-------|
| CHANNEL                  | Frequency (MHz) | 99% OCCUPIED Bandwidth (MHz) |       |       | 26 dB bandwidth (MHz) |       |       |
|                          |                 | QPSK                         | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 133222                   | 673             | 17.86                        | 17.87 | 17.89 | 19.00                 | 18.83 | 19.02 |
| 133297                   | 680.5           | 17.87                        | 17.92 | 17.86 | 18.88                 | 19.03 | 19.05 |
| 133372                   | 688             | 17.97                        | 17.94 | 17.96 | 19.30                 | 19.30 | 19.21 |

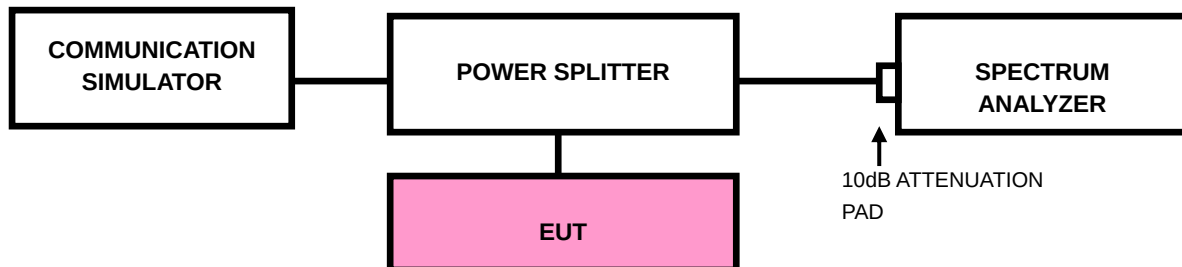


### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

#### 3.4.2 TEST SETUP



### 3.4.3 TEST PROCEDURES

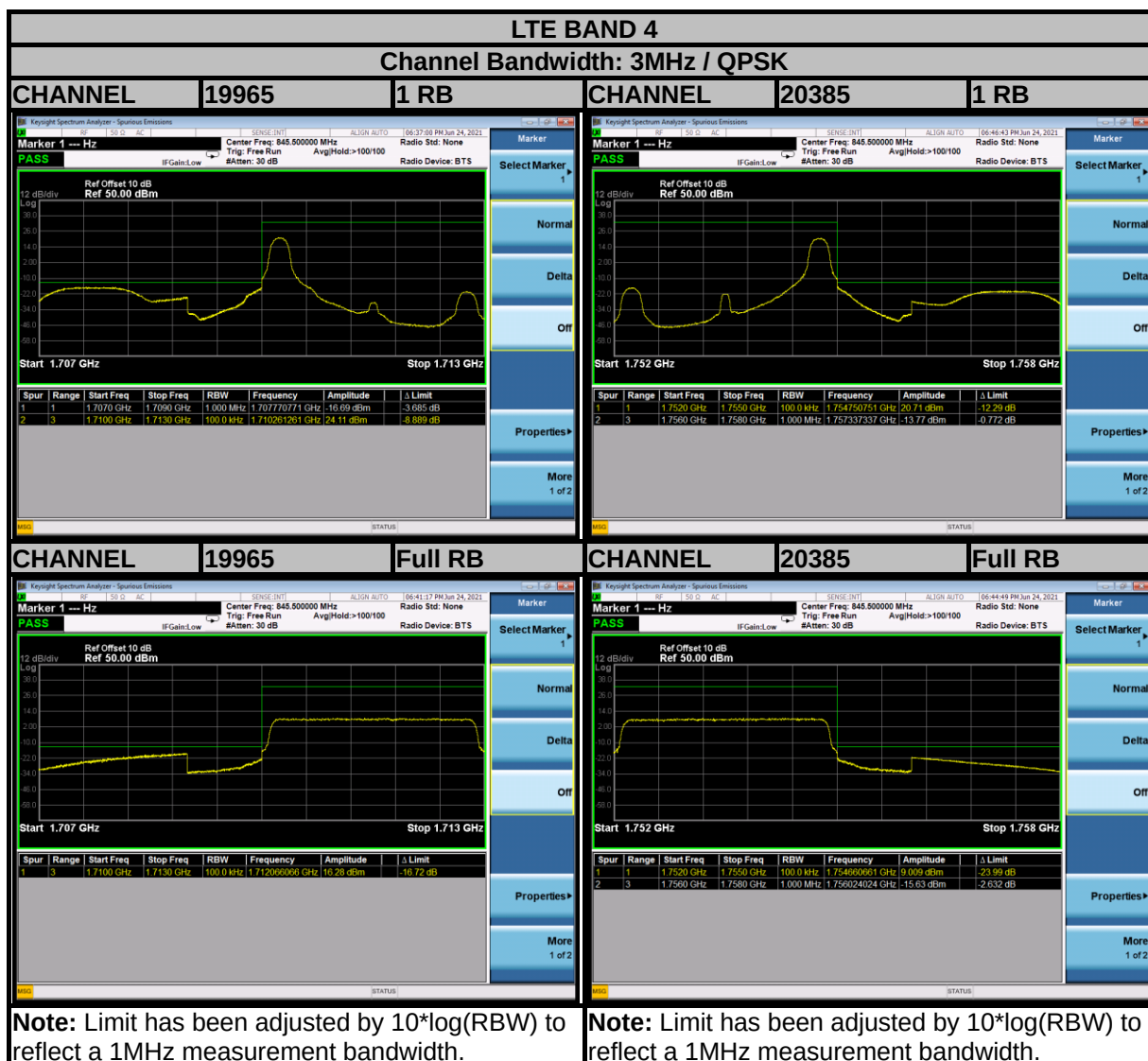
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 150kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- i. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- j. Record the max trace plot into the test report.

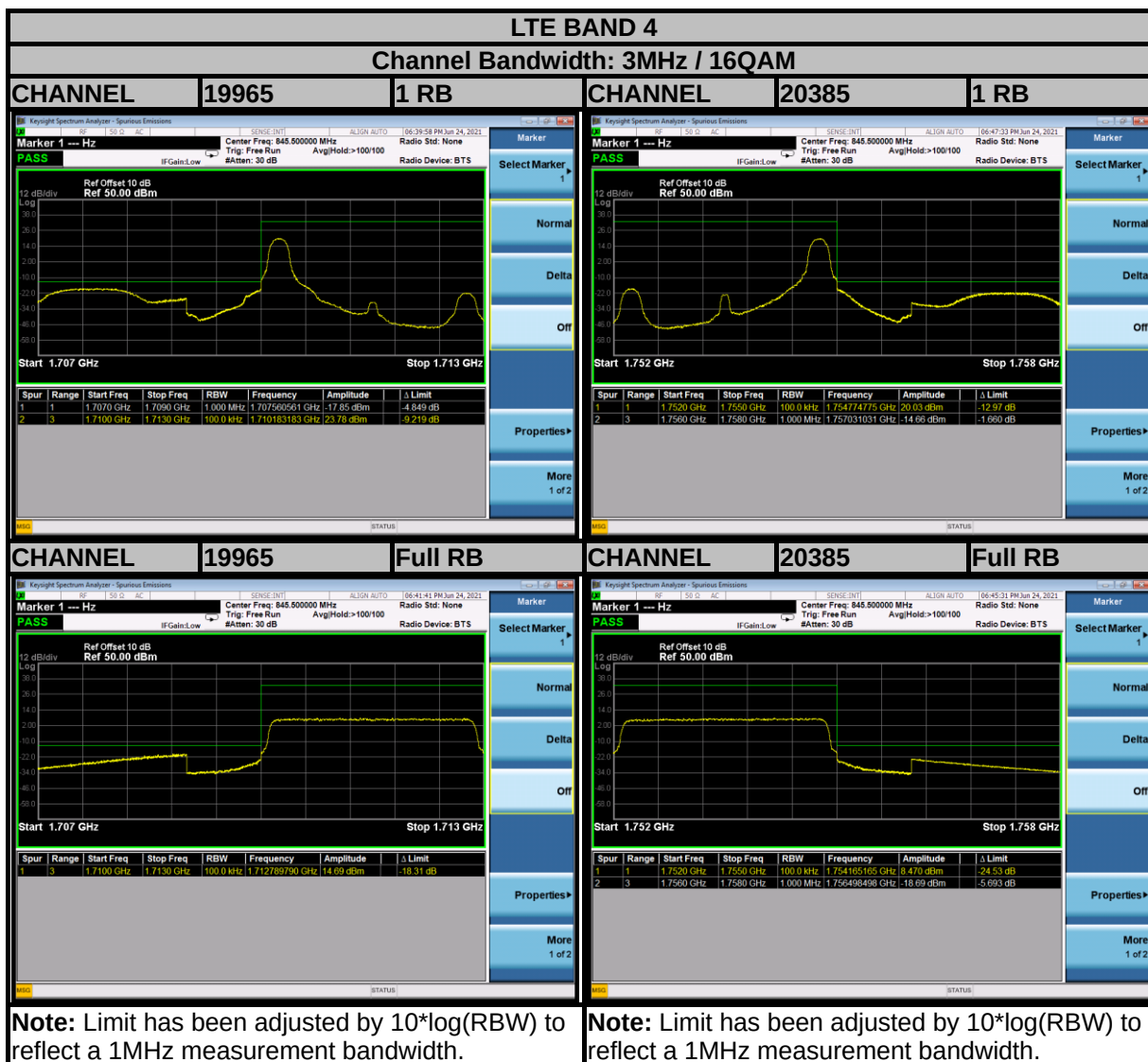
### 3.4.4 TEST RESULTS

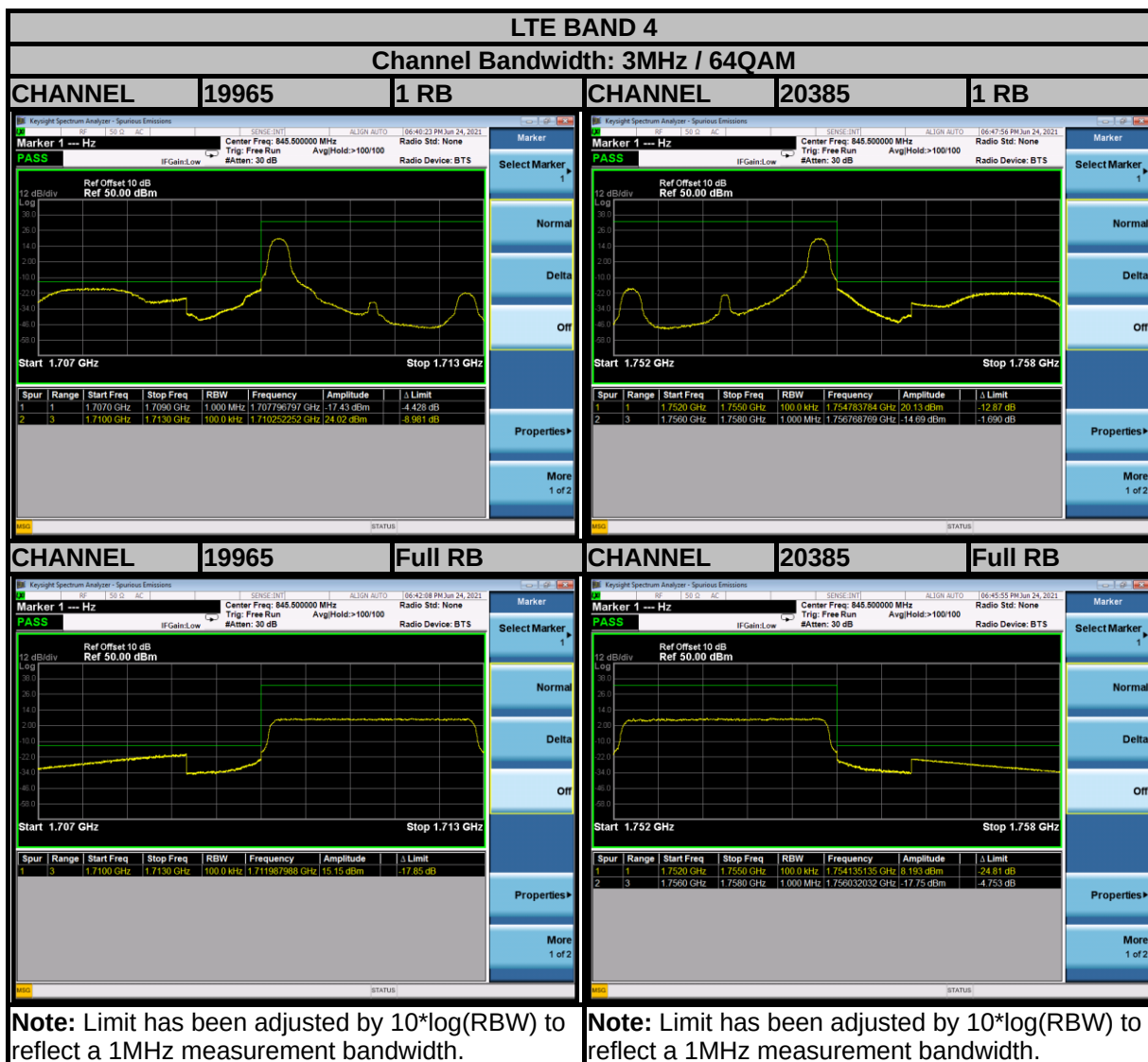








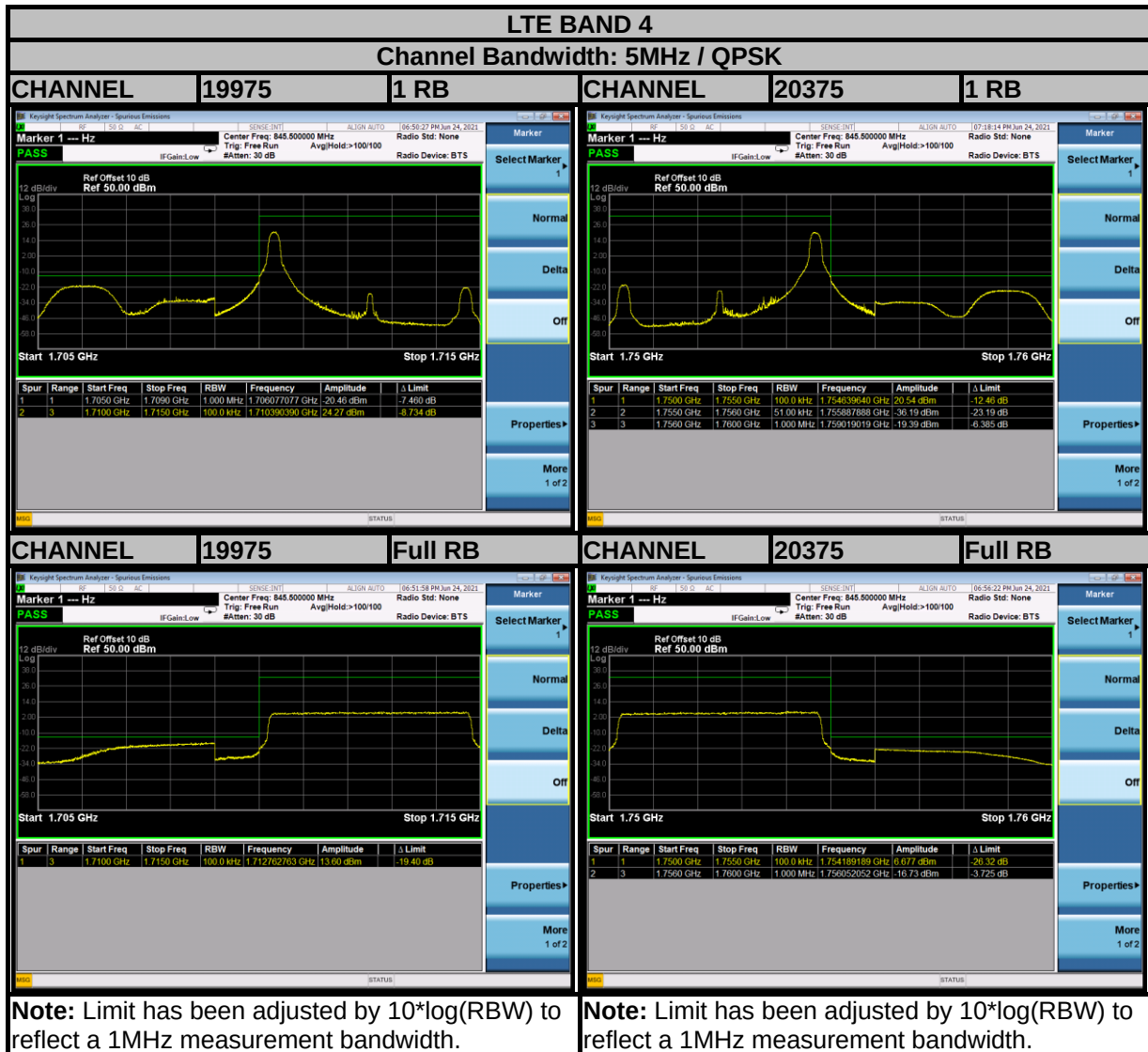


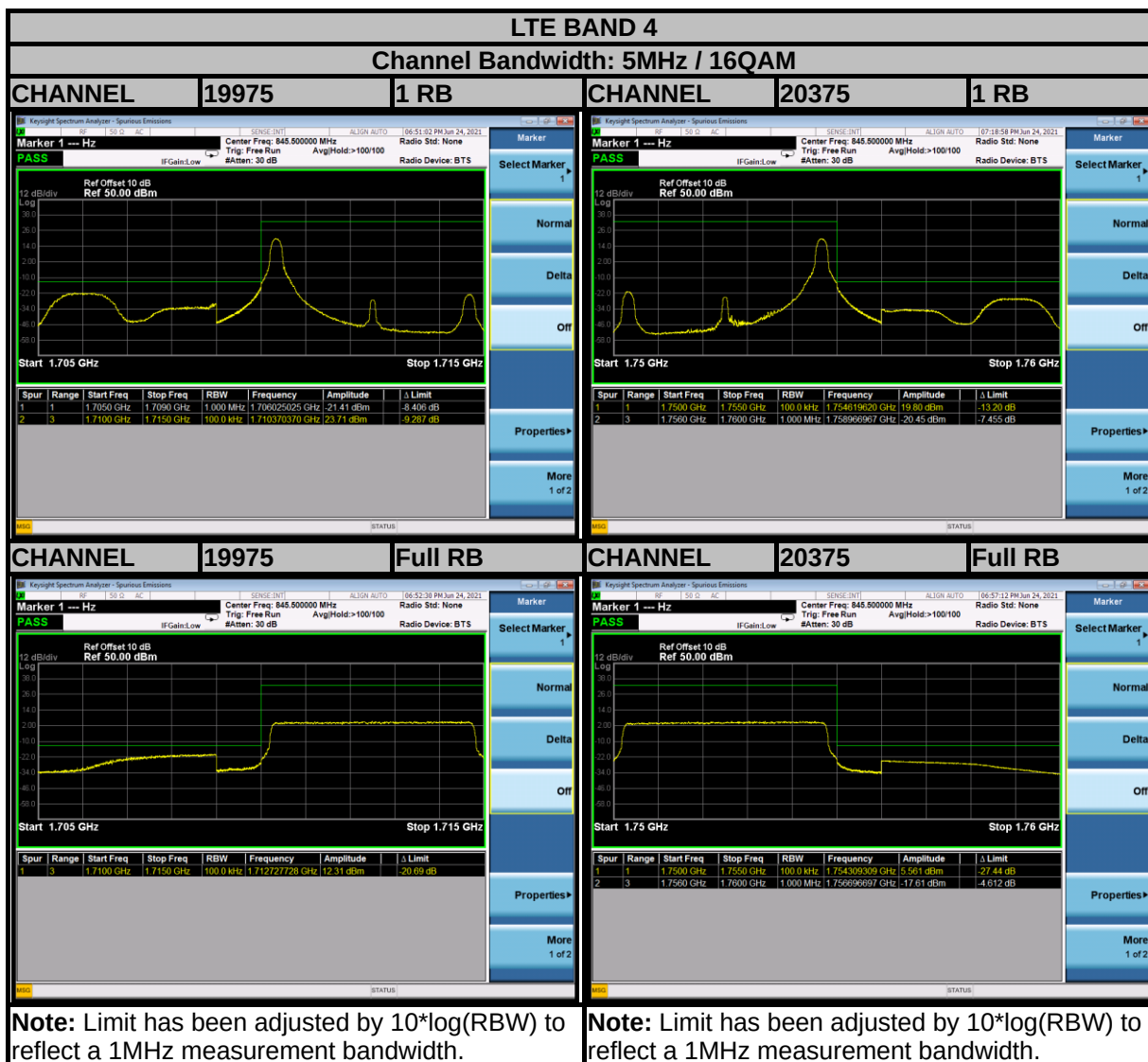


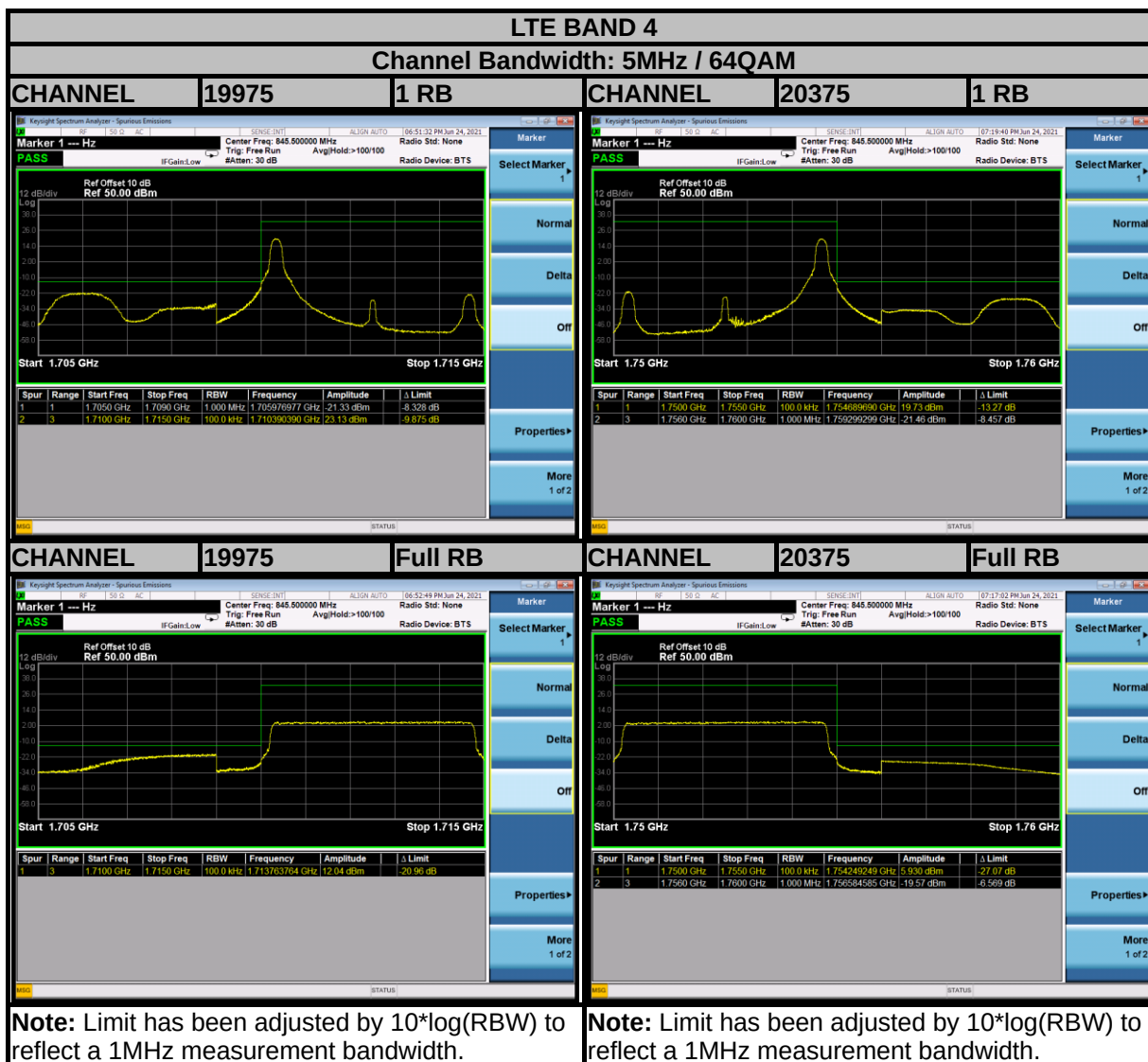


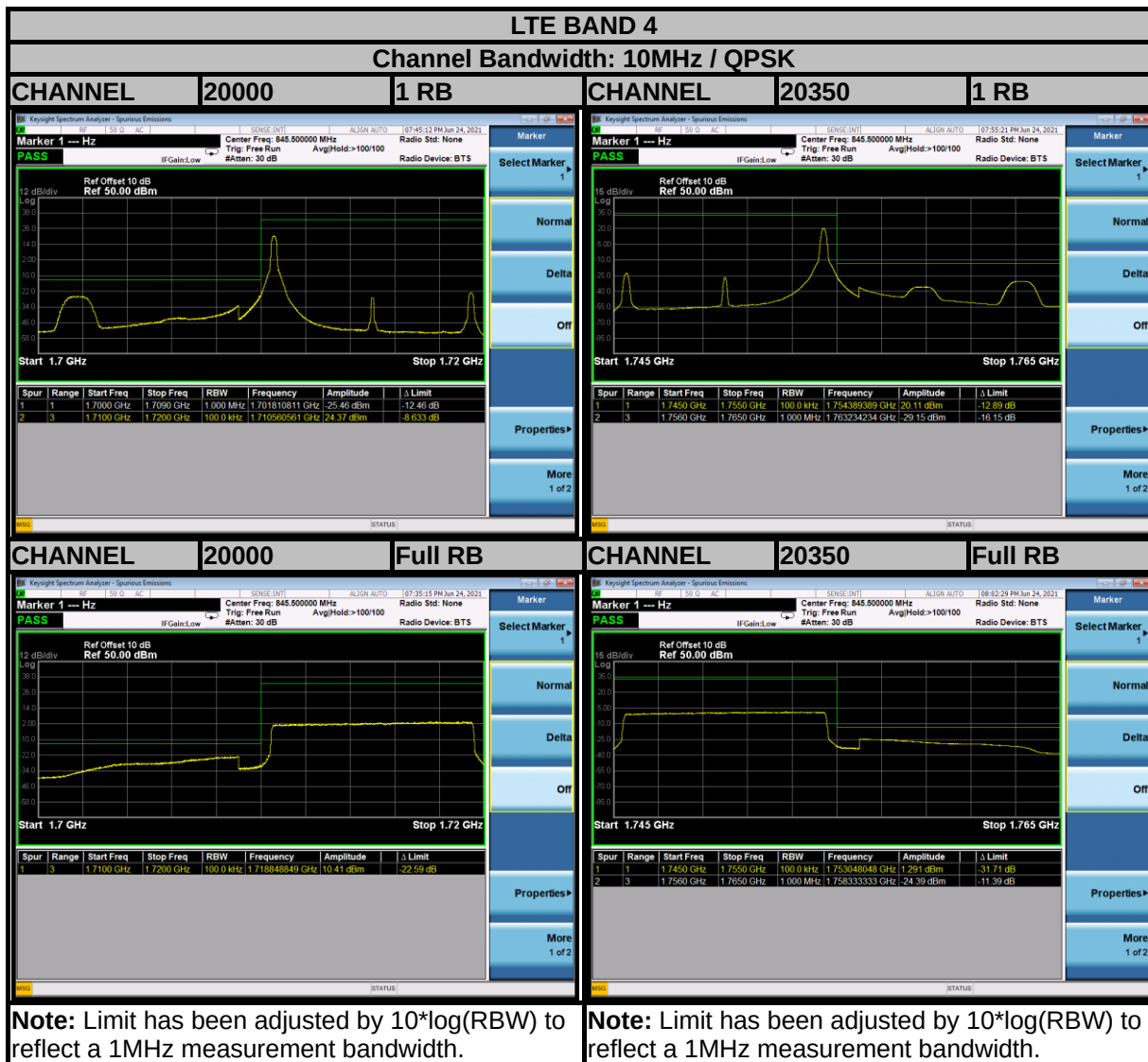
BUREAU  
VERITAS

Test Report No.: W7L-P21040030RF18























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