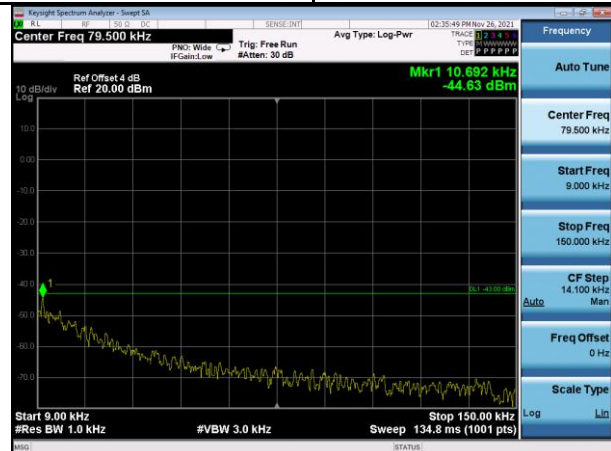
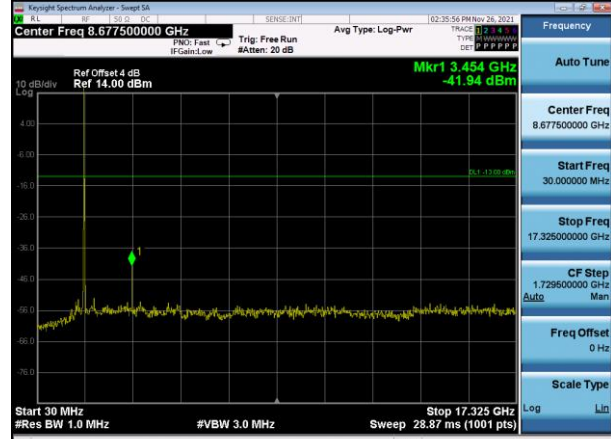
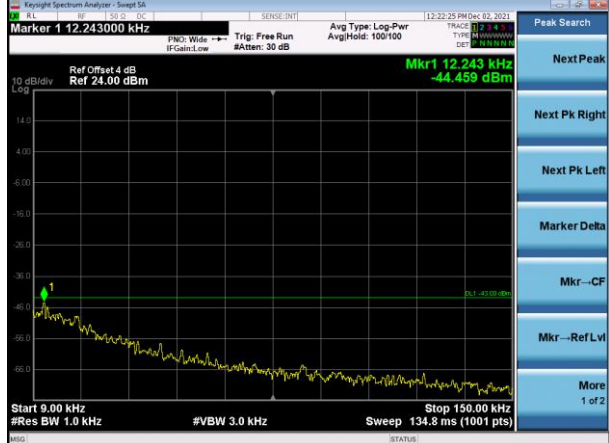
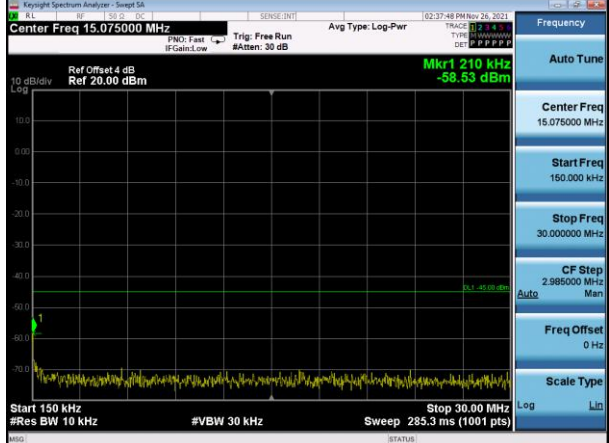
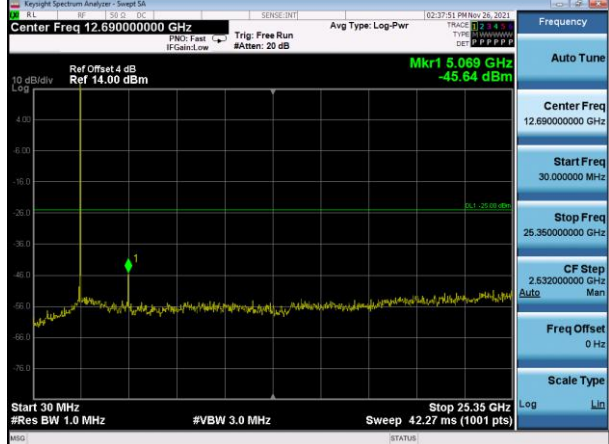
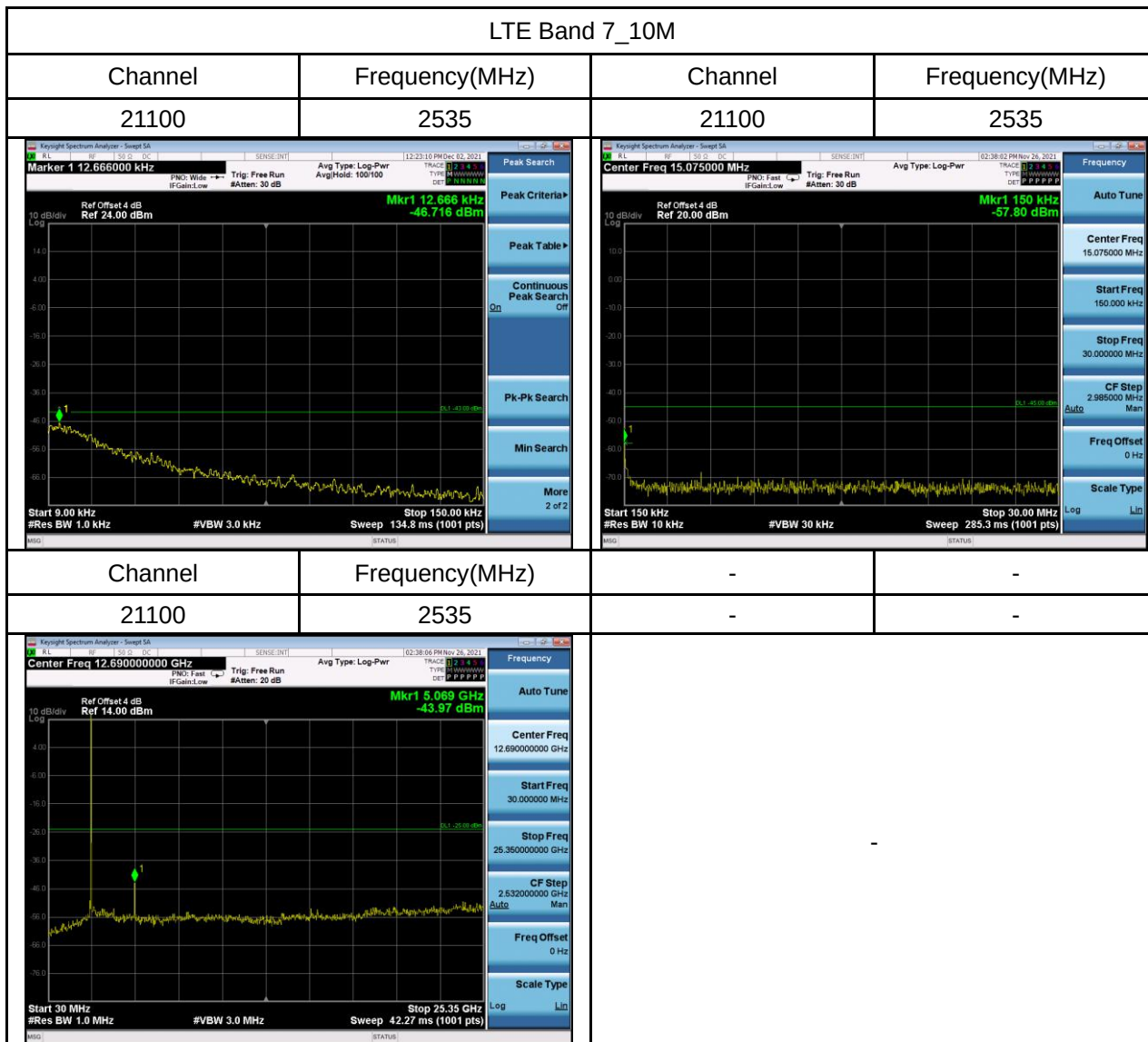
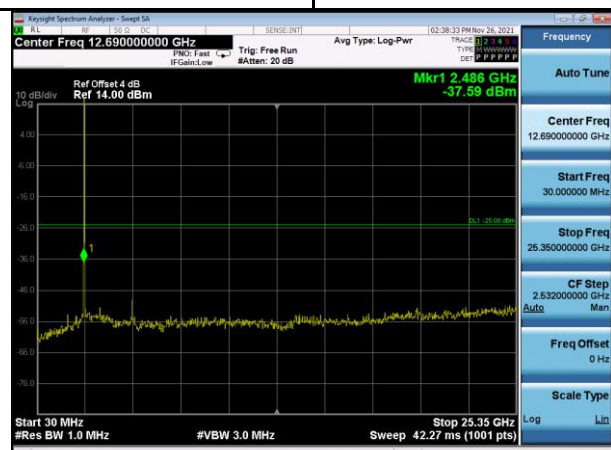
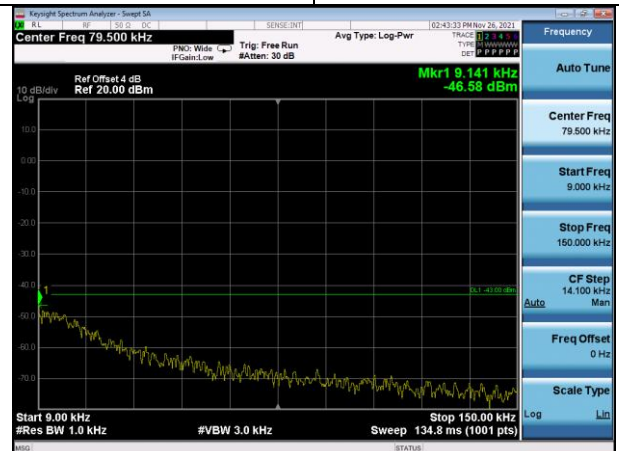
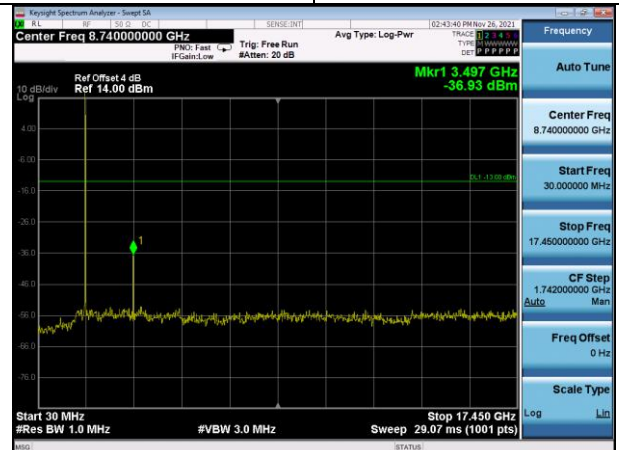


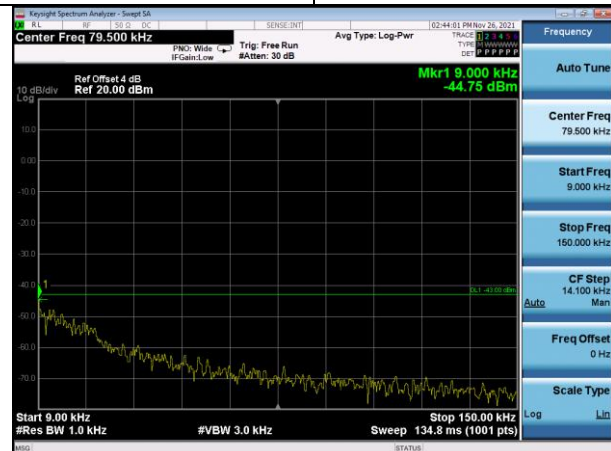
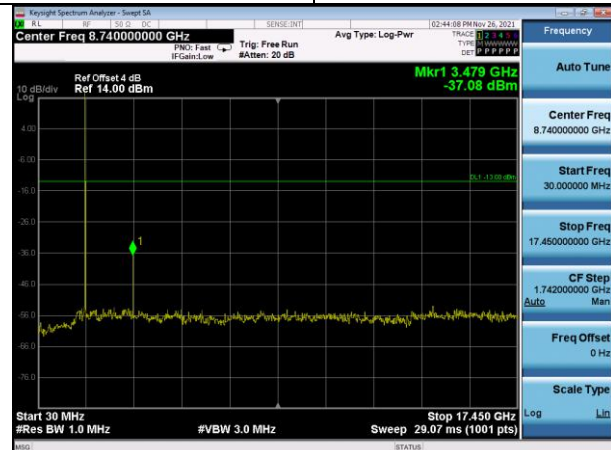
| LTE Band 4_20M                                                                     |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 20175                                                                              | 1732.5         | 20175                                                                              | 1732.5         |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) | -                                                                                  | -              |
| 20175                                                                              | 1732.5         | -                                                                                  | -              |
|  |                |                                                                                    |                |

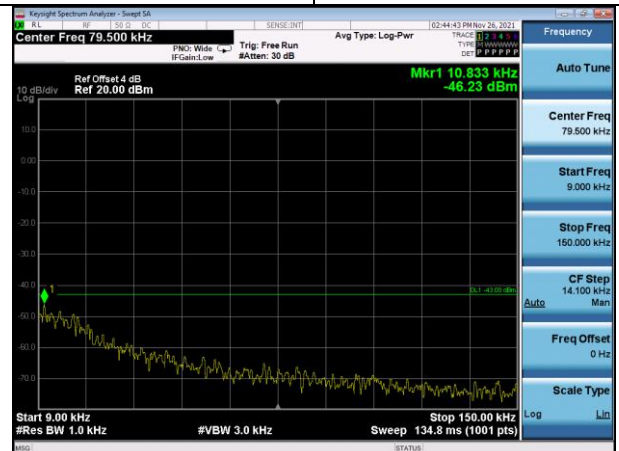
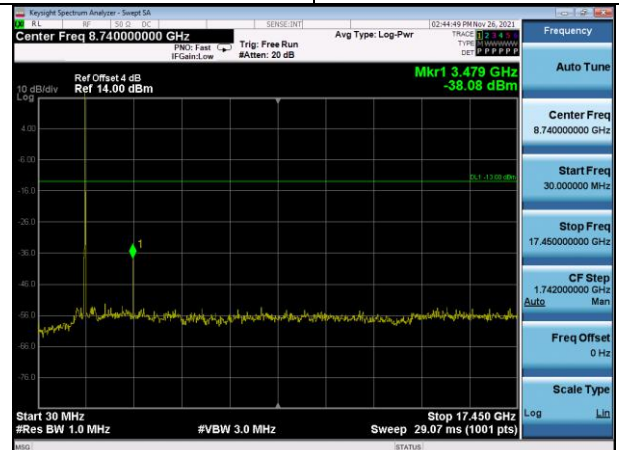
| LTE Band 7_5M                                                                      |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 21100                                                                              | 2535           | 21100                                                                              | 2535           |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) |                                                                                    |                |
| 21100                                                                              | 2535           | -                                                                                  | -              |
|  |                |                                                                                    |                |



| LTE Band 7_20M                                                                     |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 21100                                                                              | 2535           | 21100                                                                              | 2535           |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) |                                                                                    |                |
| 21100                                                                              | 2535           | -                                                                                  | -              |
|  |                |                                                                                    |                |

| LTE Band 66_1.4M                                                                   |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 132322                                                                             | 1745           | 132322                                                                             | 1745           |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) | -                                                                                  | -              |
| 132322                                                                             | 1745           | -                                                                                  | -              |
|  |                |                                                                                    |                |

| LTE Band 66_5M                                                                     |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 132322                                                                             | 1745           | 132322                                                                             | 1745           |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) | -                                                                                  | -              |
| 132322                                                                             | 1745           | -                                                                                  | -              |
|  |                |                                                                                    |                |

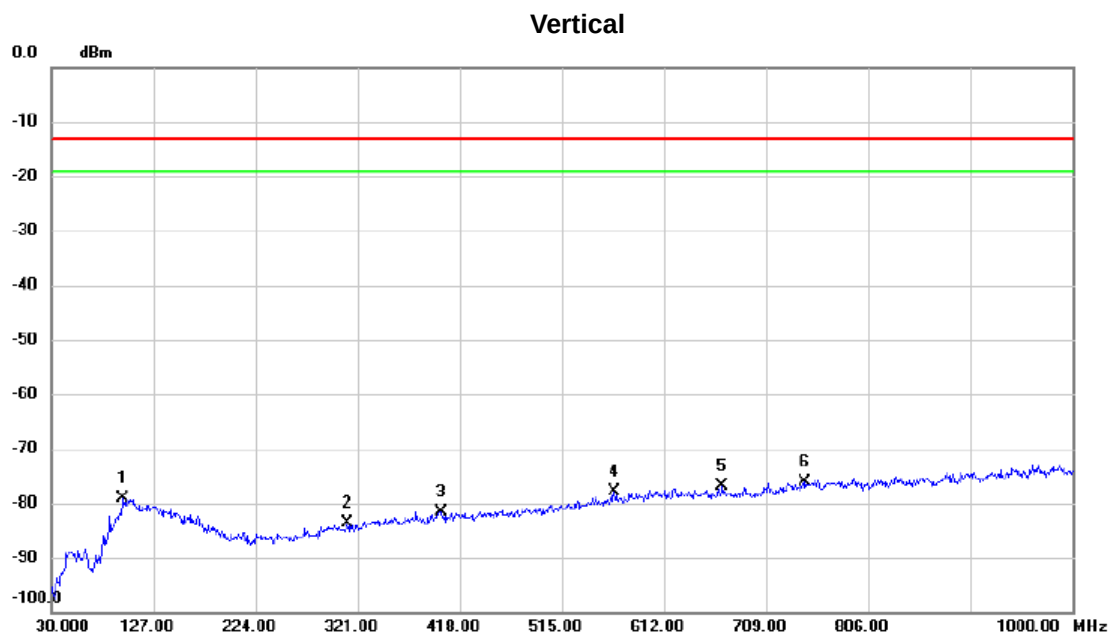
| LTE Band 66_20M                                                                    |                |                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| Channel                                                                            | Frequency(MHz) | Channel                                                                            | Frequency(MHz) |
| 132322                                                                             | 1745           | 132322                                                                             | 1745           |
|   |                |  |                |
| Channel                                                                            | Frequency(MHz) |                                                                                    |                |
| 132322                                                                             | 1745           | -                                                                                  | -              |
|  |                |                                                                                    |                |

## **APPENDIX D - RADIATED SPURIOUS EMISSION (9KHZ TO 30MHZ)**

Note: Below 30MHz, The measured value have enough margin over 20dB than the limit, therefore they are not reported

## **APPENDIX E - RADIATED EMISSION (30MHZ TO 1GHZ)**

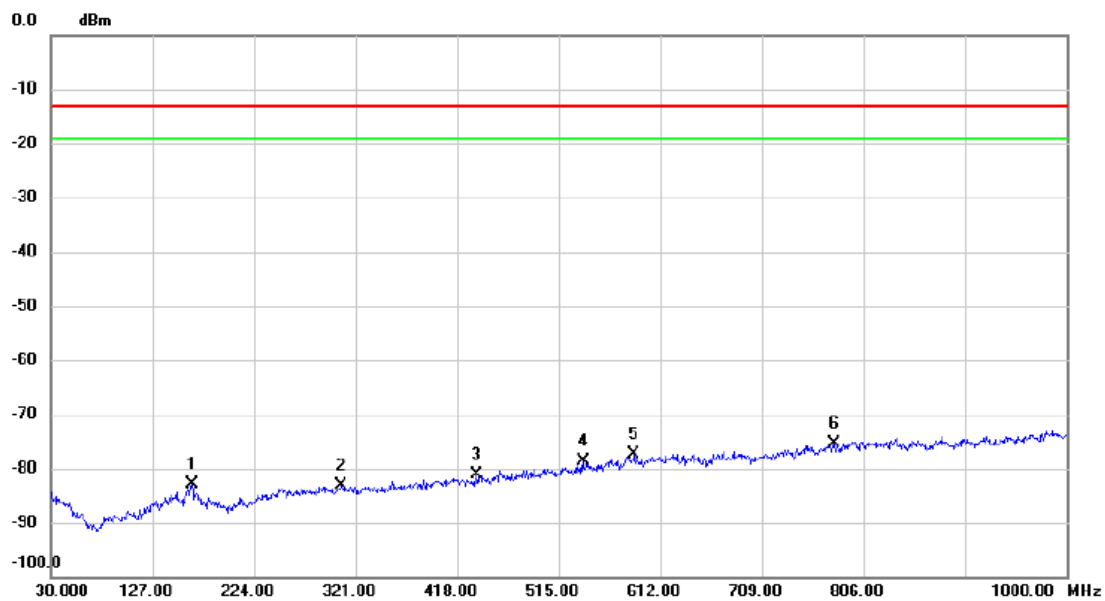
Test Mode: WCDMA Band IV\_TX Mode



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 97.9000  | -80.77        | 1.74           | -79.03      | -13.00 | -66.03 | RMS      |         |
| 2   |     | 311.7850 | -82.52        | -1.19          | -83.71      | -13.00 | -70.71 | RMS      |         |
| 3   |     | 400.5400 | -82.12        | 0.61           | -81.51      | -13.00 | -68.51 | RMS      |         |
| 4   |     | 564.4700 | -81.28        | 3.32           | -77.96      | -13.00 | -64.96 | RMS      |         |
| 5   |     | 667.2900 | -80.89        | 4.09           | -76.80      | -13.00 | -63.80 | RMS      |         |
| 6   | *   | 745.8600 | -81.83        | 5.62           | -76.21      | -13.00 | -63.21 | RMS      |         |

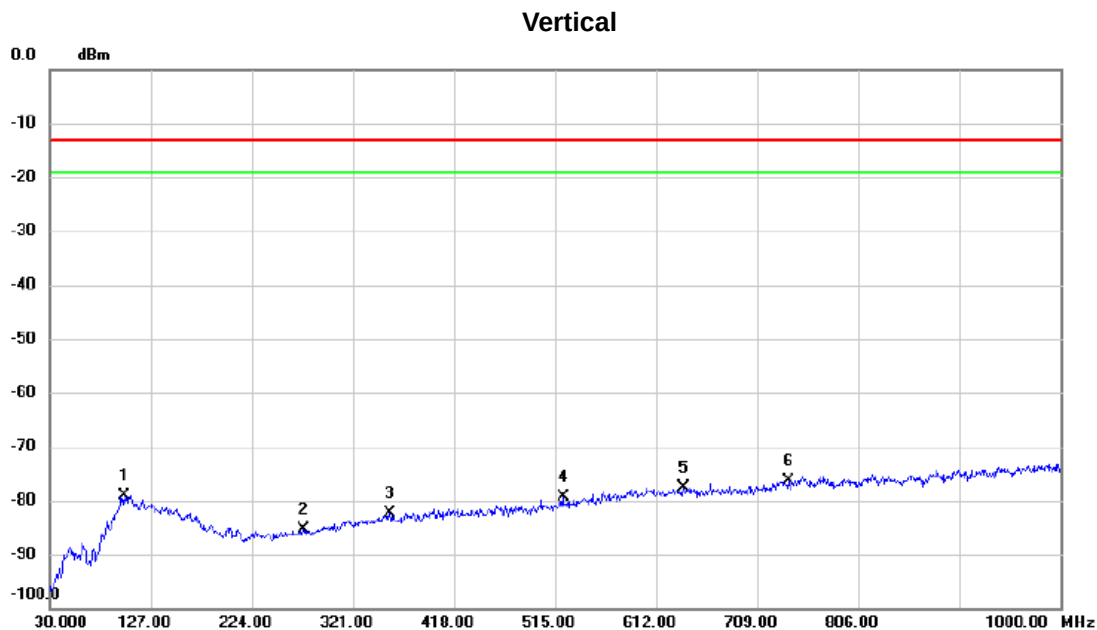
Test Mode: WCDMA Band IV\_TX Mode

## Horizontal



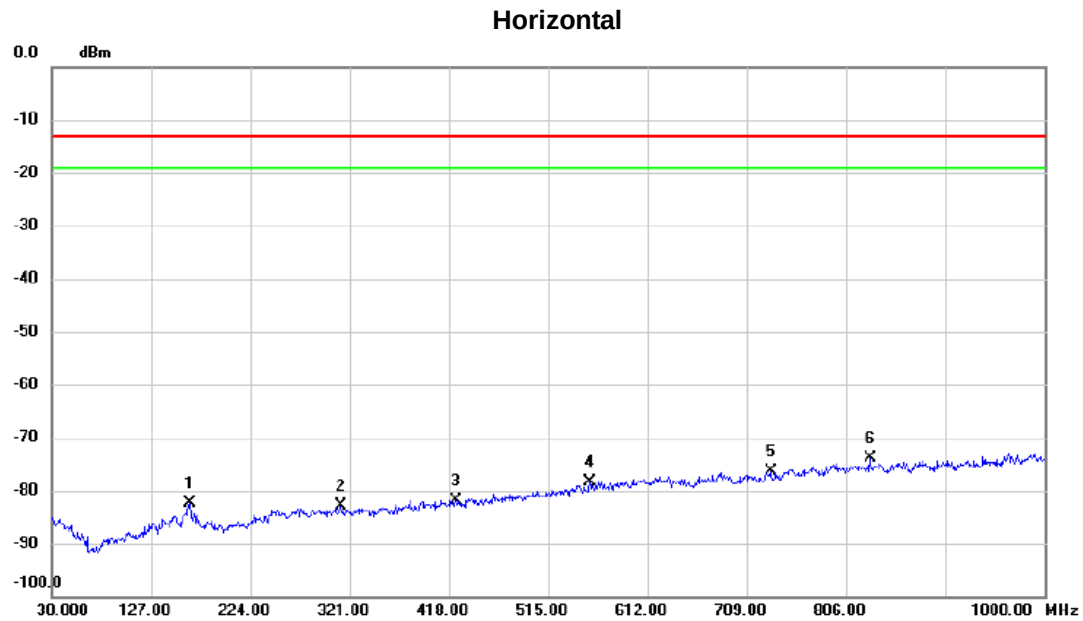
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 164.8300     | -79.65                  | -3.23                   | -82.88                  | -13.00       | -69.88       | RMS      |         |
| 2   |     | 307.9050     | -82.45                  | -0.67                   | -83.12                  | -13.00       | -70.12       | RMS      |         |
| 3   |     | 436.9150     | -81.88                  | 0.75                    | -81.13                  | -13.00       | -68.13       | RMS      |         |
| 4   |     | 538.7650     | -81.38                  | 2.74                    | -78.64                  | -13.00       | -65.64       | RMS      |         |
| 5   |     | 587.2650     | -81.24                  | 3.84                    | -77.40                  | -13.00       | -64.40       | RMS      |         |
| 6   | *   | 778.3550     | -81.34                  | 6.04                    | -75.30                  | -13.00       | -62.30       | RMS      |         |

Test Mode: LTE Band 4\_TX Mode\_20M



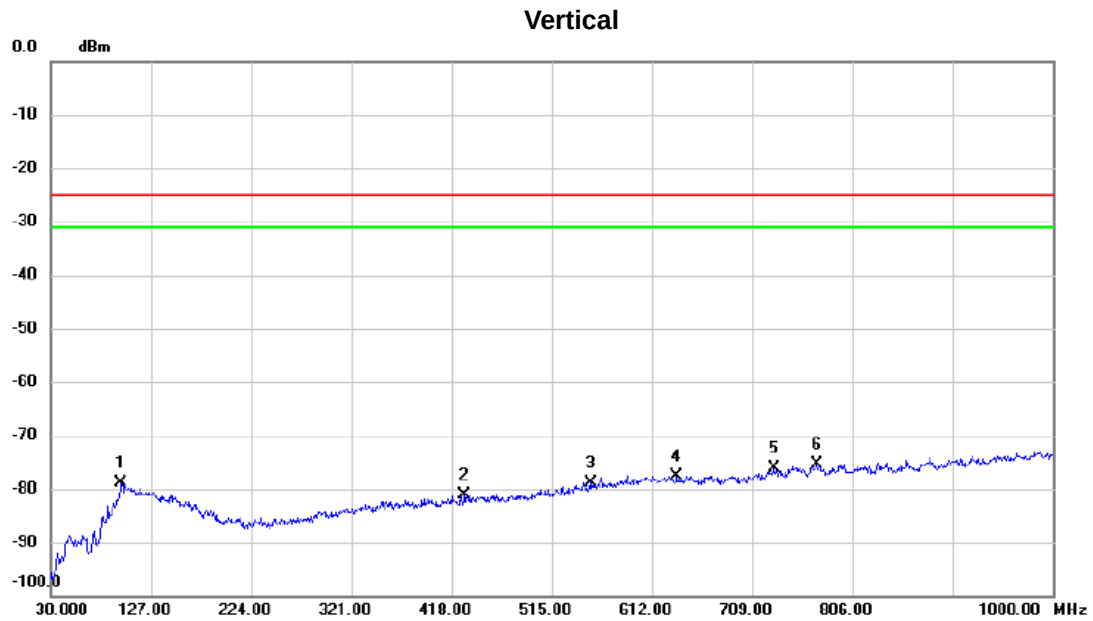
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 101.2950     | -81.59                  | 2.55                    | -79.04                  | -13.00       | -66.04       | RMS      |         |
| 2   |     | 273.9550     | -82.85                  | -2.40                   | -85.25                  | -13.00       | -72.25       | RMS      |         |
| 3   |     | 355.9200     | -82.09                  | -0.21                   | -82.30                  | -13.00       | -69.30       | RMS      |         |
| 4   |     | 523.2450     | -81.57                  | 2.10                    | -79.47                  | -13.00       | -66.47       | RMS      |         |
| 5   |     | 638.1900     | -81.64                  | 4.10                    | -77.54                  | -13.00       | -64.54       | RMS      |         |
| 6   | *   | 739.5550     | -81.85                  | 5.42                    | -76.43                  | -13.00       | -63.43       | RMS      |         |

Test Mode: LTE Band 4\_TX Mode\_20M



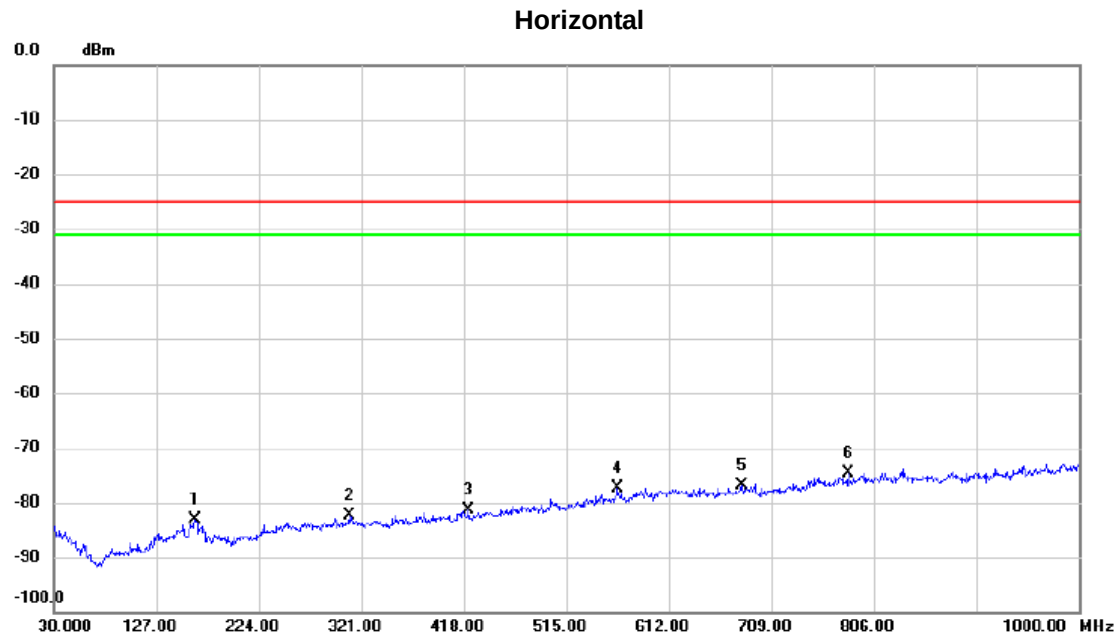
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 164.8300     | -79.17                  | -3.23                   | -82.40                  | -13.00       | -69.40       | RMS      |         |
| 2   |     | 312.2700     | -82.15                  | -0.67                   | -82.82                  | -13.00       | -69.82       | RMS      |         |
| 3   |     | 425.2750     | -82.45                  | 0.64                    | -81.81                  | -13.00       | -68.81       | RMS      |         |
| 4   |     | 556.2250     | -81.59                  | 3.20                    | -78.39                  | -13.00       | -65.39       | RMS      |         |
| 5   |     | 732.7650     | -81.38                  | 5.04                    | -76.34                  | -13.00       | -63.34       | RMS      |         |
| 6   | *   | 829.2800     | -80.32                  | 6.39                    | -73.93                  | -13.00       | -60.93       | RMS      |         |

Test Mode: LTE Band 7\_TX Mode\_20M



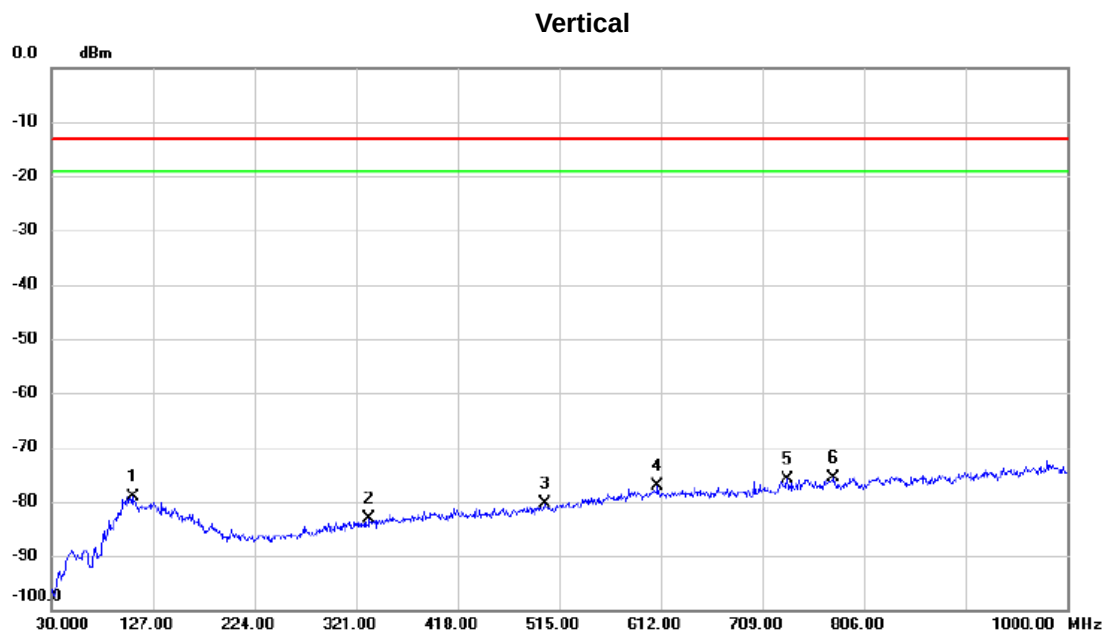
| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|---------|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1       | 97.9000      | -80.52                  | 1.74                    | -78.78                  | -25.00       | -53.78       | RMS      |         |
| 2       | 430.6100     | -81.88                  | 0.81                    | -81.07                  | -25.00       | -56.07       | RMS      |         |
| 3       | 553.3150     | -81.81                  | 3.06                    | -78.75                  | -25.00       | -53.75       | RMS      |         |
| 4       | 636.2500     | -81.74                  | 4.10                    | -77.64                  | -25.00       | -52.64       | RMS      |         |
| 5       | 729.8550     | -81.18                  | 5.10                    | -76.08                  | -25.00       | -51.08       | RMS      |         |
| 6 *     | 772.0500     | -81.08                  | 5.69                    | -75.39                  | -25.00       | -50.39       | RMS      |         |

Test Mode: LTE Band 7\_TX Mode\_20M



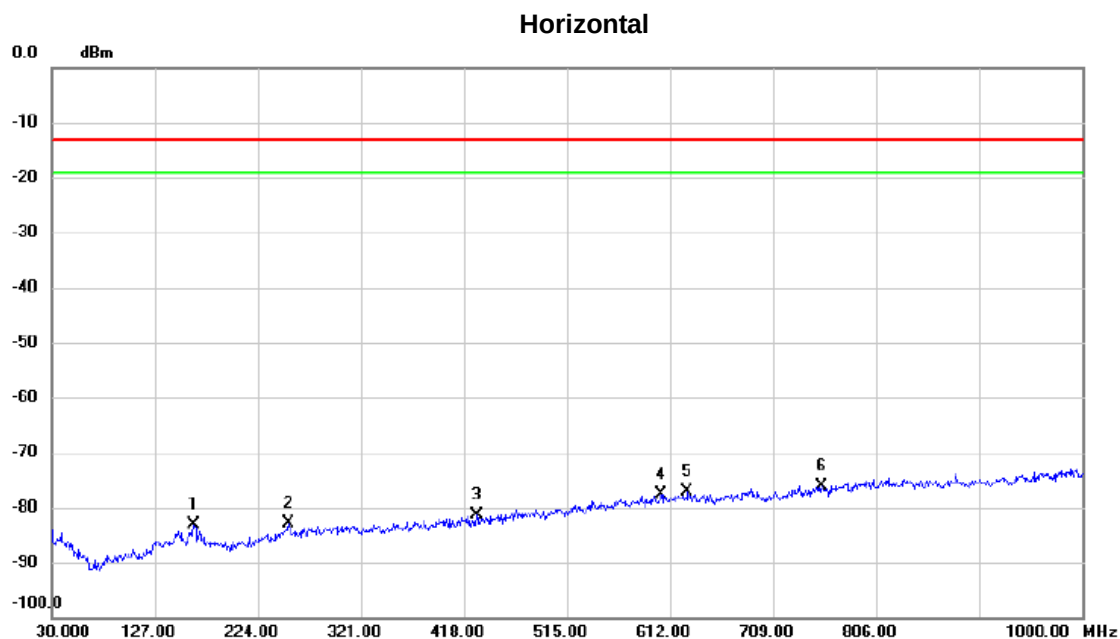
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   |     | 163.8600 | -79.82        | -3.20          | -83.02      | -25.00 | -58.02 | RMS      |         |
| 2   |     | 309.3600 | -81.80        | -0.67          | -82.47      | -25.00 | -57.47 | RMS      |         |
| 3   |     | 422.8500 | -82.08        | 0.61           | -81.47      | -25.00 | -56.47 | RMS      |         |
| 4   |     | 563.9850 | -80.70        | 3.36           | -77.34      | -25.00 | -52.34 | RMS      |         |
| 5   |     | 681.3550 | -80.91        | 4.12           | -76.79      | -25.00 | -51.79 | RMS      |         |
| 6   | *   | 782.2350 | -80.64        | 6.11           | -74.53      | -25.00 | -49.53 | RMS      |         |

Test Mode: LTE Band 66\_ TX Mode \_20M



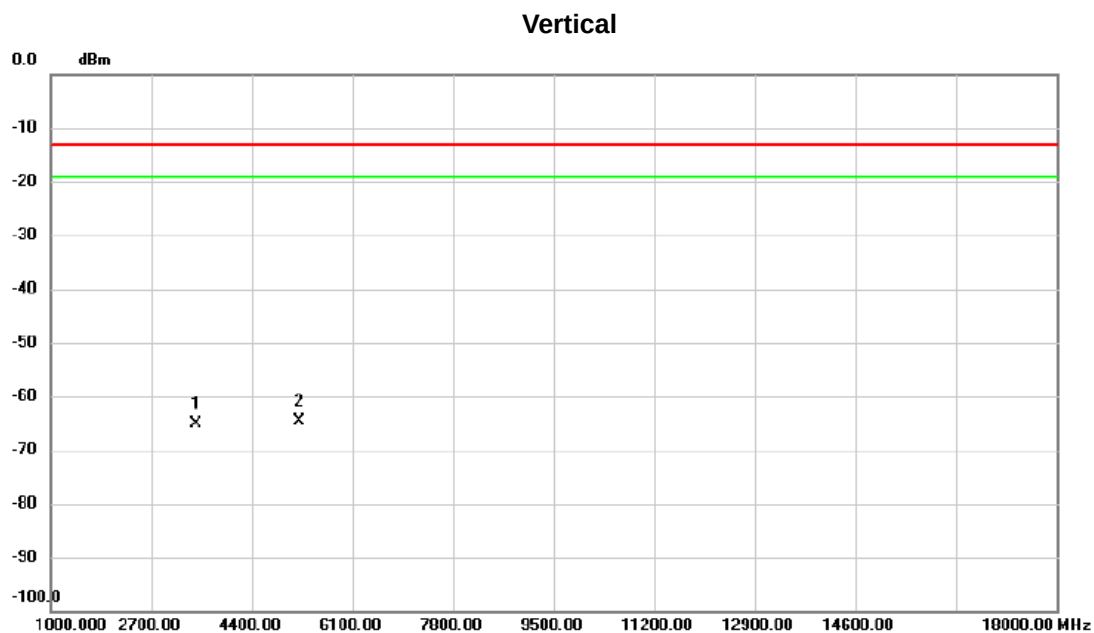
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 108.0850     | -81.27                  | 2.26                    | -79.01                  | -13.00       | -66.01       | RMS      |         |
| 2   |     | 333.6100     | -82.45                  | -0.69                   | -83.14                  | -13.00       | -70.14       | RMS      |         |
| 3   |     | 500.9350     | -81.85                  | 1.37                    | -80.48                  | -13.00       | -67.48       | RMS      |         |
| 4   |     | 609.0900     | -81.29                  | 4.15                    | -77.14                  | -13.00       | -64.14       | RMS      |         |
| 5   |     | 732.2800     | -81.17                  | 5.18                    | -75.99                  | -13.00       | -62.99       | RMS      |         |
| 6   | *   | 776.9000     | -81.30                  | 5.67                    | -75.63                  | -13.00       | -62.63       | RMS      |         |

Test Mode: LTE Band 66\_ TX Mode \_20M



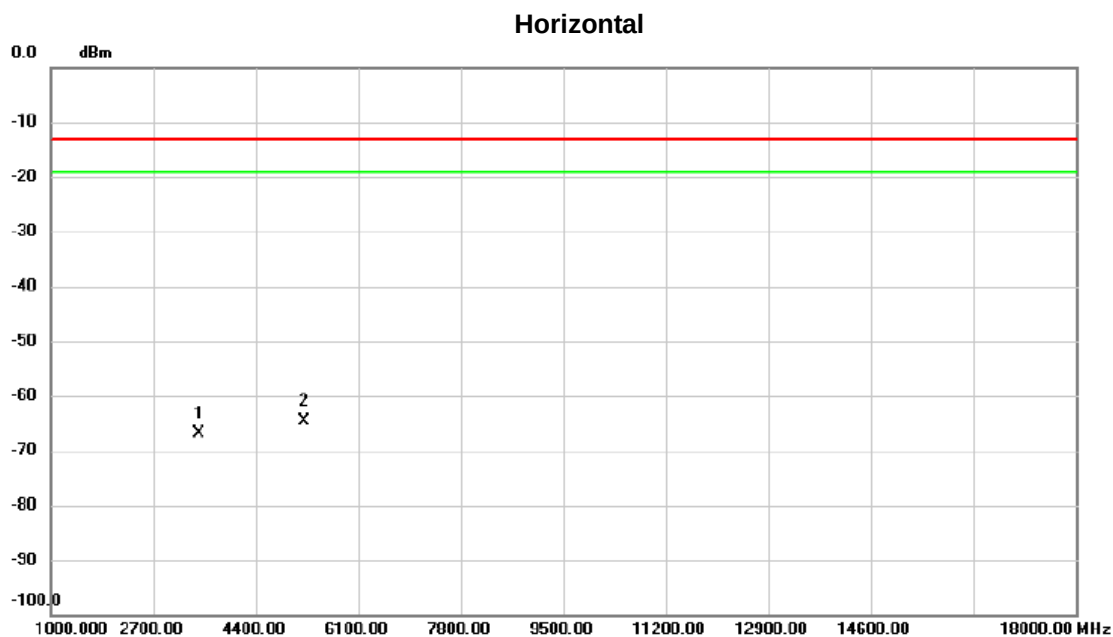
## **APPENDIX F - RADIATED EMISSION (ABOVE 1GHZ)**

|            |                       |
|------------|-----------------------|
| Test Mode: | WCDMA Band IV_TX Mode |
|------------|-----------------------|



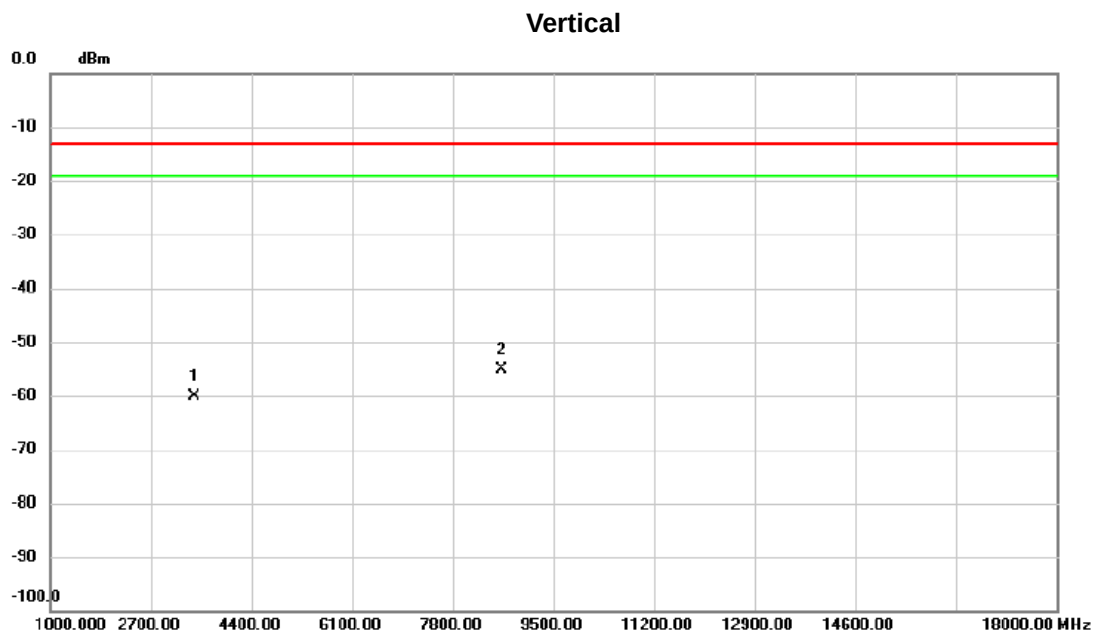
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3465.200     | -58.97                  | -6.03                   | -65.00                  | -13.00       | -52.00       | RMS      |         |
| 2   | *   | 5197.800     | -62.68                  | -1.94                   | -64.62                  | -13.00       | -51.62       | RMS      |         |

Test Mode: WCDMA Band IV\_TX Mode



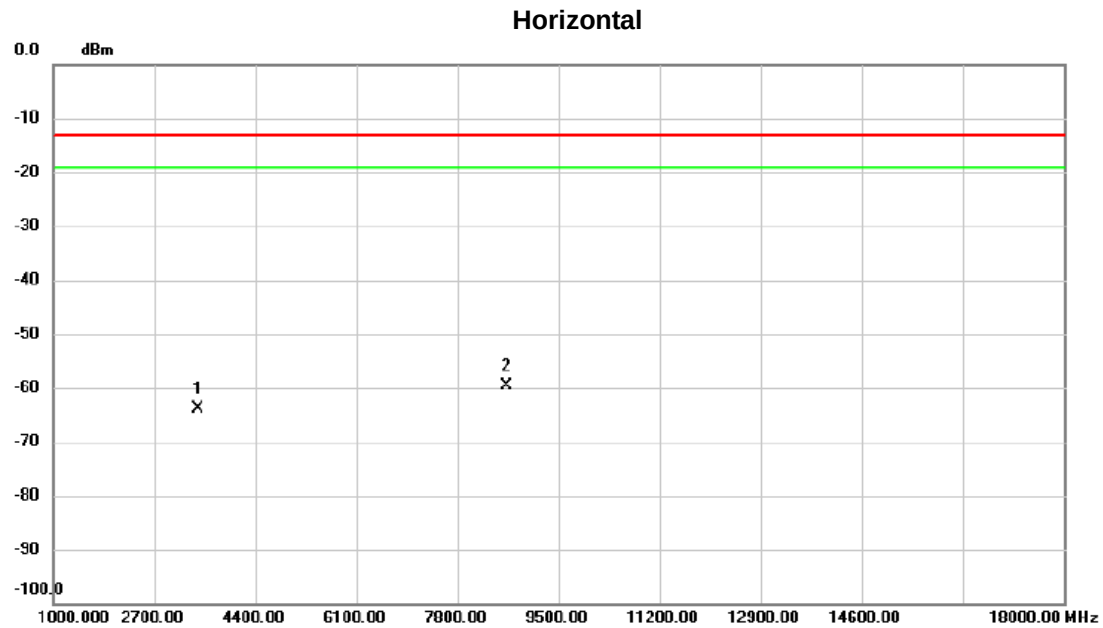
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 3465.200 | -60.81        | -5.97          | -66.78      | -13.00 | -53.78 | RMS      |         |
| 2   | *   | 5197.800 | -62.47        | -2.09          | -64.56      | -13.00 | -51.56 | RMS      |         |

Test Mode: LTE Band 4\_TX Mode \_20M



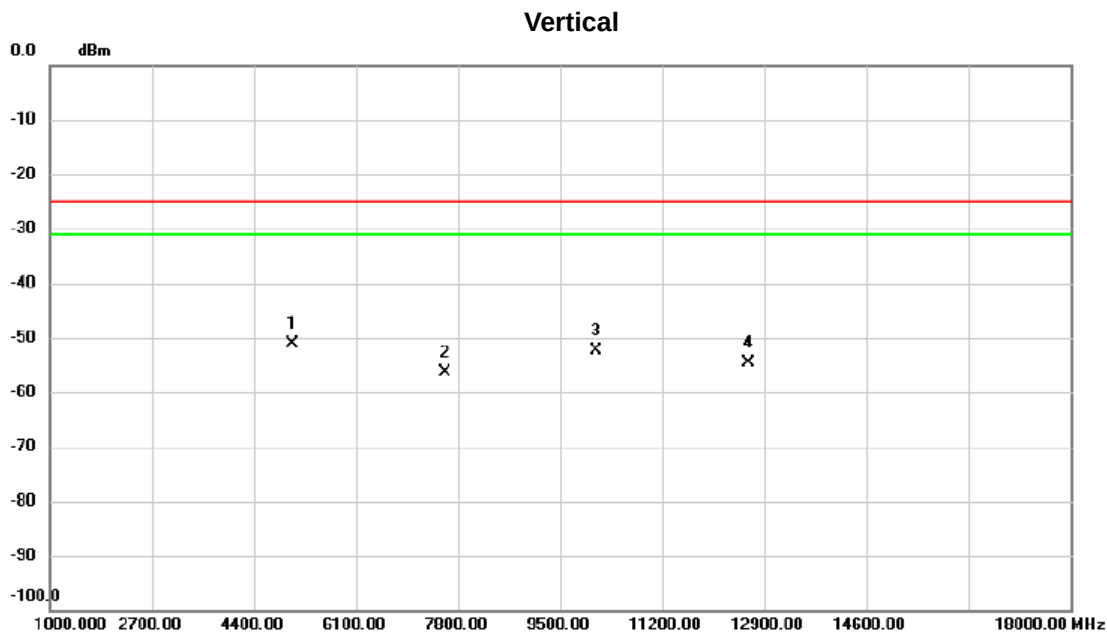
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 3447.150 | -53.89        | -6.14          | -60.03      | -13.00 | -47.03 | RMS      |         |
| 2   | *   | 8617.700 | -57.72        | 2.57           | -55.15      | -13.00 | -42.15 | RMS      |         |

Test Mode: LTE Band 4\_TX Mode \_20M



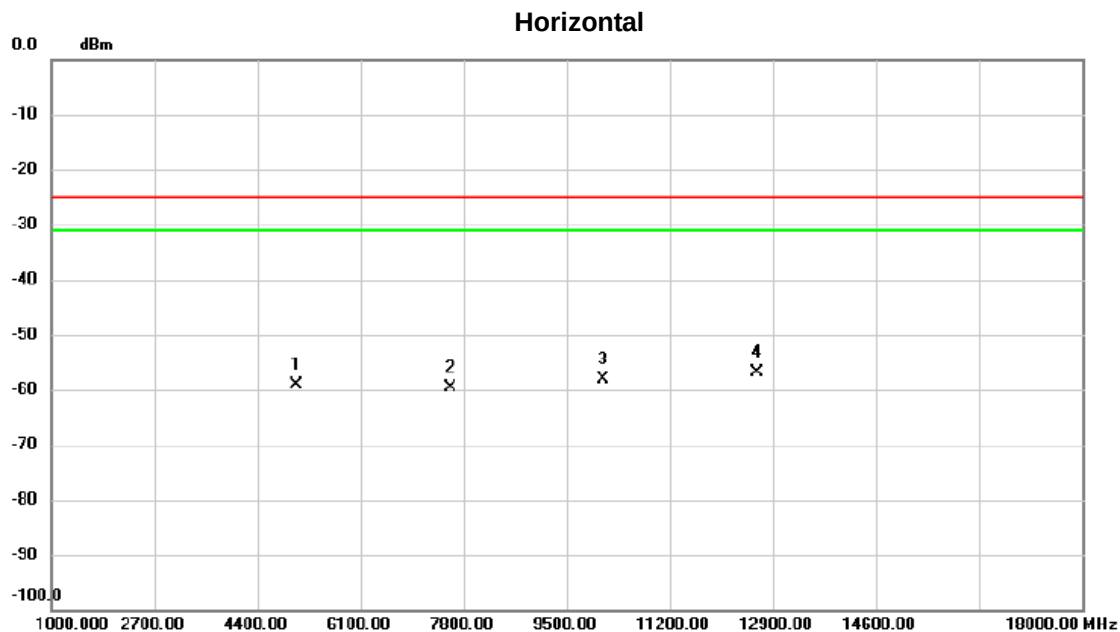
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 3447.150 | -57.89        | -6.08          | -63.97      | -13.00 | -50.97 | RMS      |         |
| 2   | *   | 8617.500 | -61.90        | 2.25           | -59.65      | -13.00 | -46.65 | RMS      |         |

Test Mode: LTE Band 7\_TX Mode \_20M



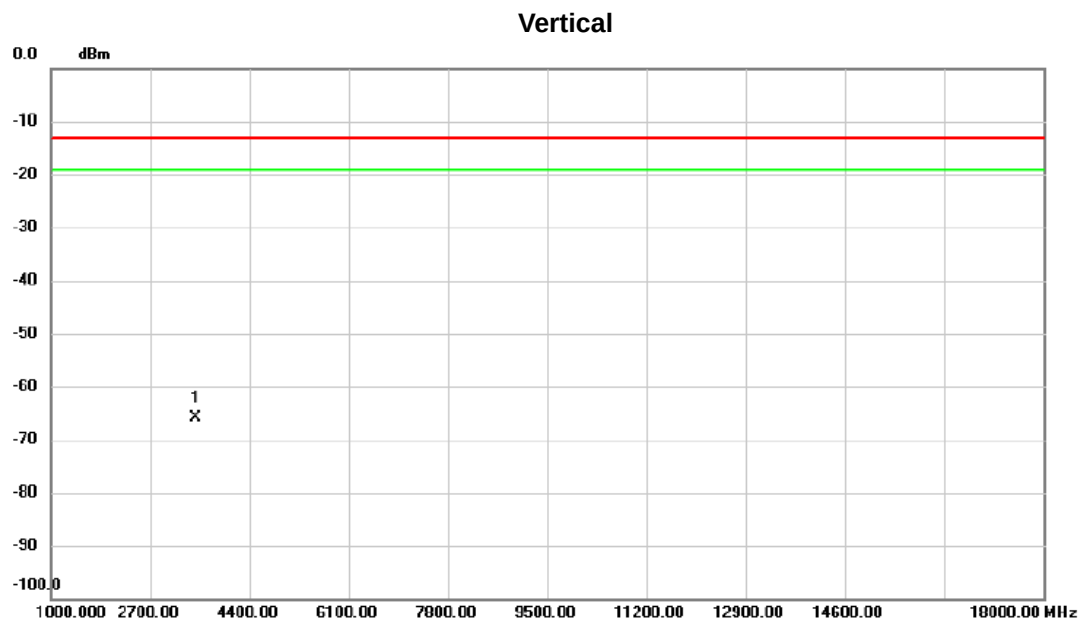
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 5051.950     | -48.77                  | -2.33                   | -51.10                  | -25.00       | -26.10       | RMS      |         |
| 2   |     | 7578.150     | -58.63                  | 2.22                    | -56.41                  | -25.00       | -31.41       | RMS      |         |
| 3   |     | 10104.35     | -57.35                  | 4.98                    | -52.37                  | -25.00       | -27.37       | RMS      |         |
| 4   |     | 12630.55     | -64.28                  | 9.61                    | -54.67                  | -25.00       | -29.67       | RMS      |         |

Test Mode: LTE Band 7\_TX Mode \_20M



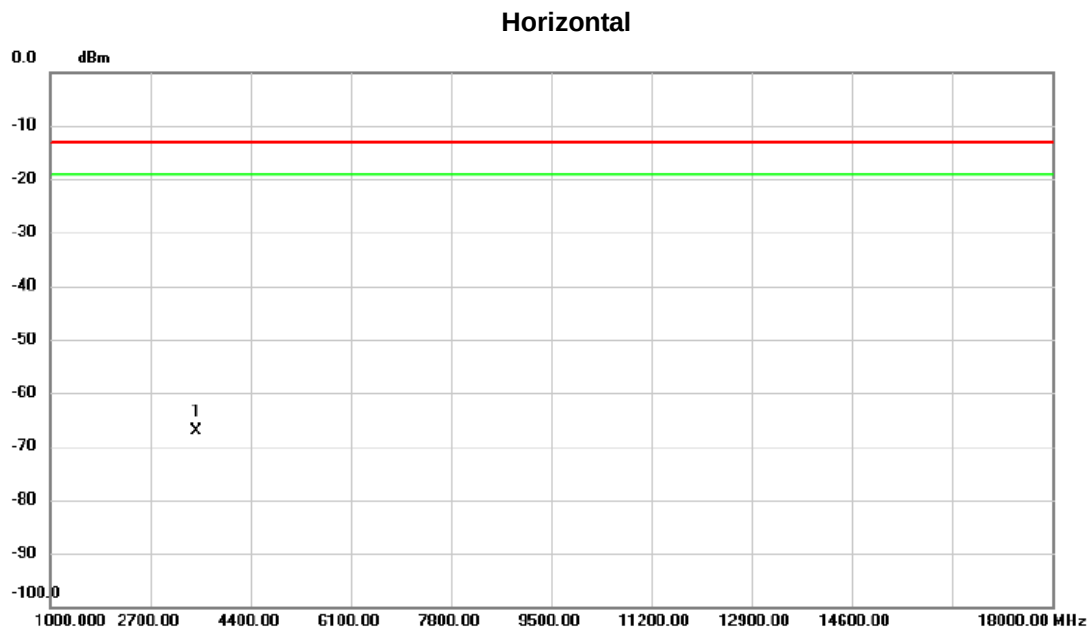
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |                  |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|------------------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector Comment |
| 1   |     | 5051.950 | -56.64        | -2.50          | -59.14      | -25.00 | -34.14 | RMS              |
| 2   |     | 7578.000 | -61.96        | 2.32           | -59.64      | -25.00 | -34.64 | RMS              |
| 3   |     | 10104.00 | -63.23        | 5.02           | -58.21      | -25.00 | -33.21 | RMS              |
| 4   | *   | 12630.00 | -66.23        | 9.24           | -56.99      | -25.00 | -31.99 | RMS              |

|            |                          |
|------------|--------------------------|
| Test Mode: | LTE Band 66_TX Mode _20M |
|------------|--------------------------|



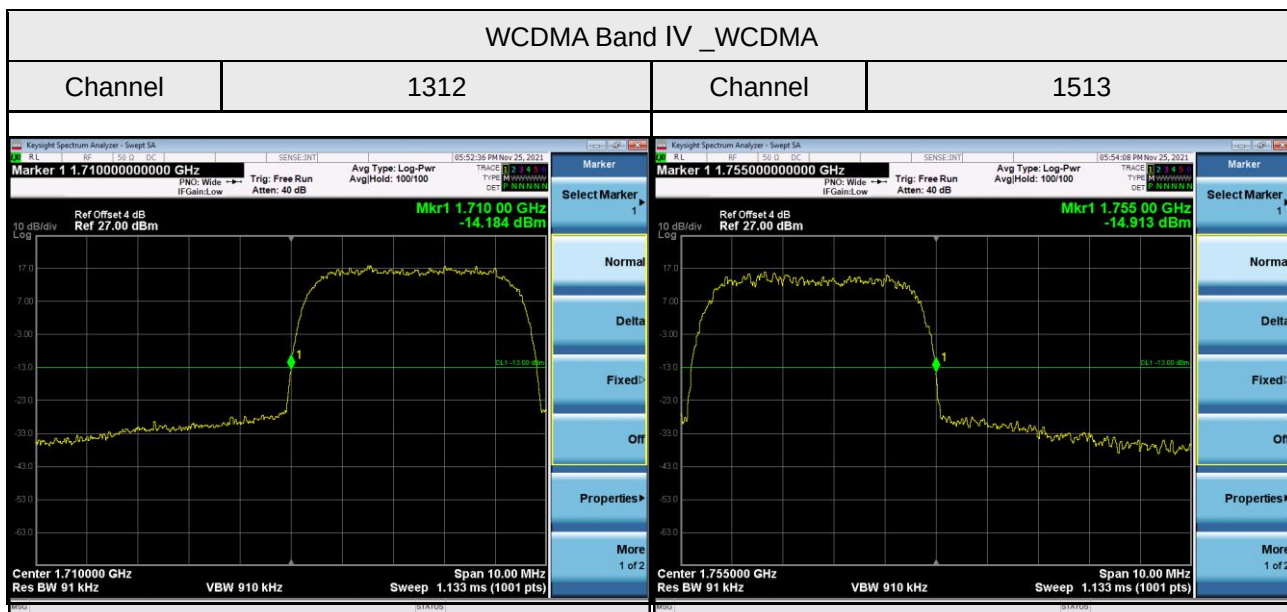
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 3472.000     | -59.90                  | -5.99                   | -65.89                  | -13.00       | -52.89       | RMS      |         |

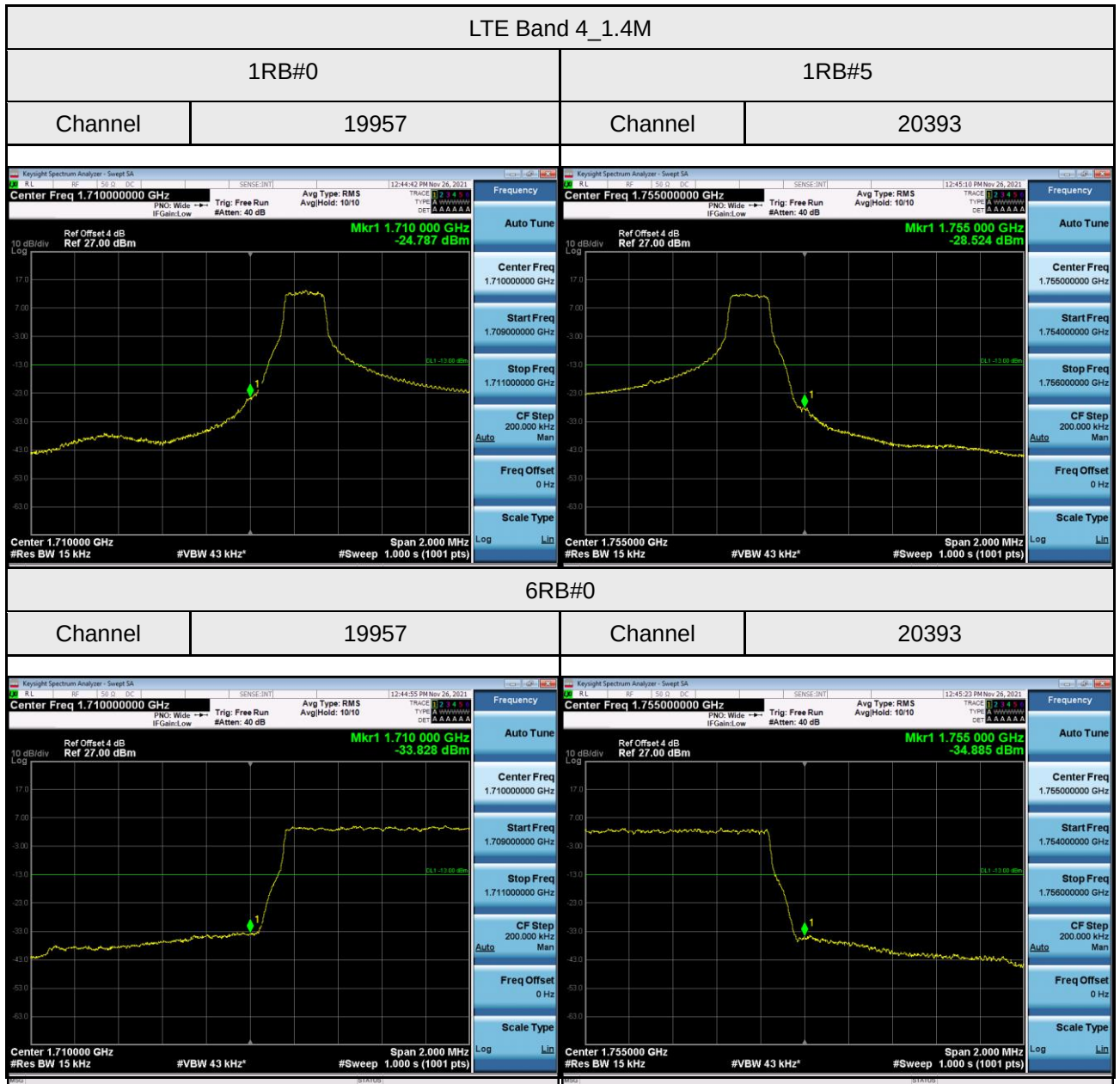
|            |                          |
|------------|--------------------------|
| Test Mode: | LTE Band 66_TX Mode _20M |
|------------|--------------------------|

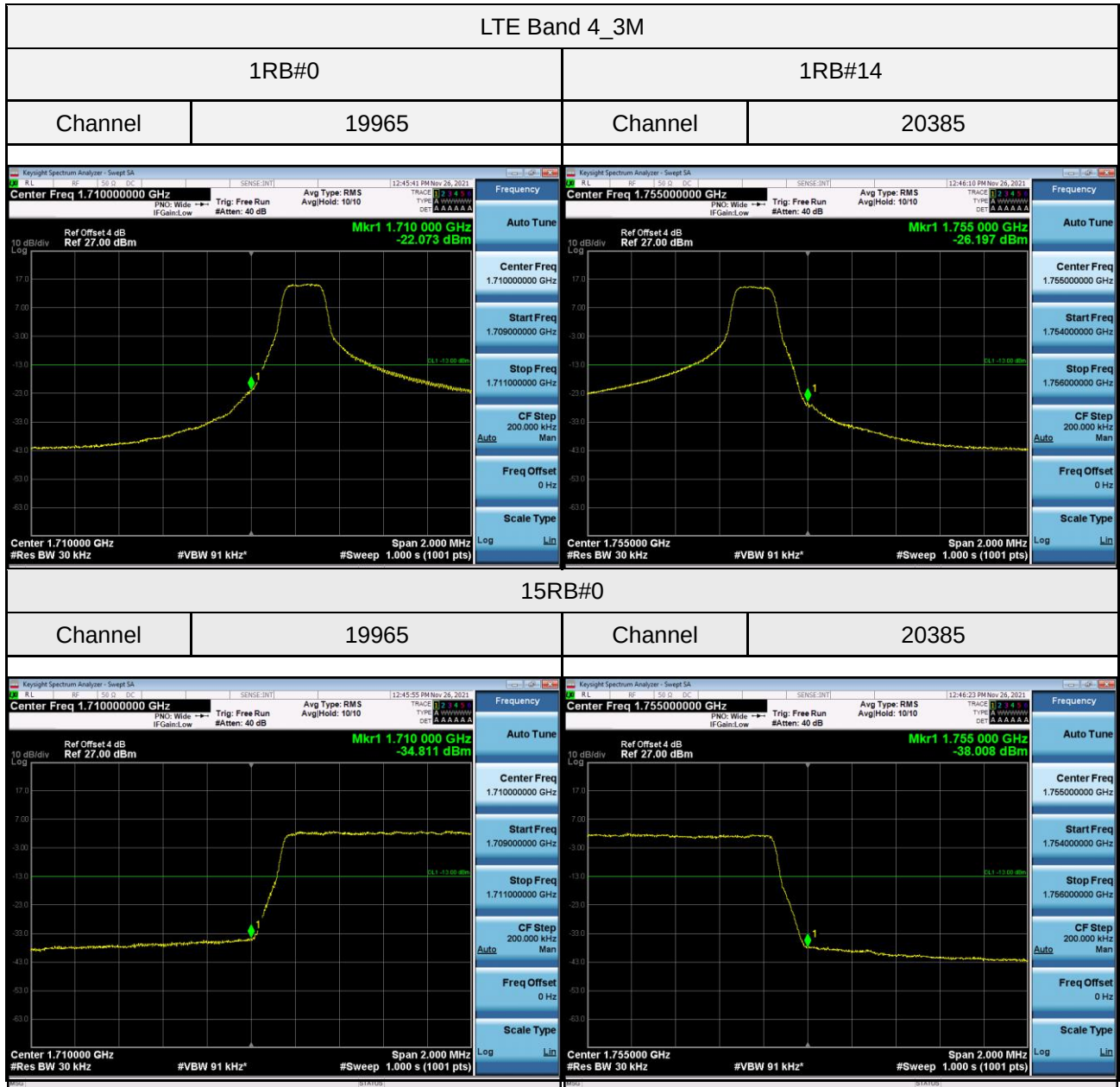


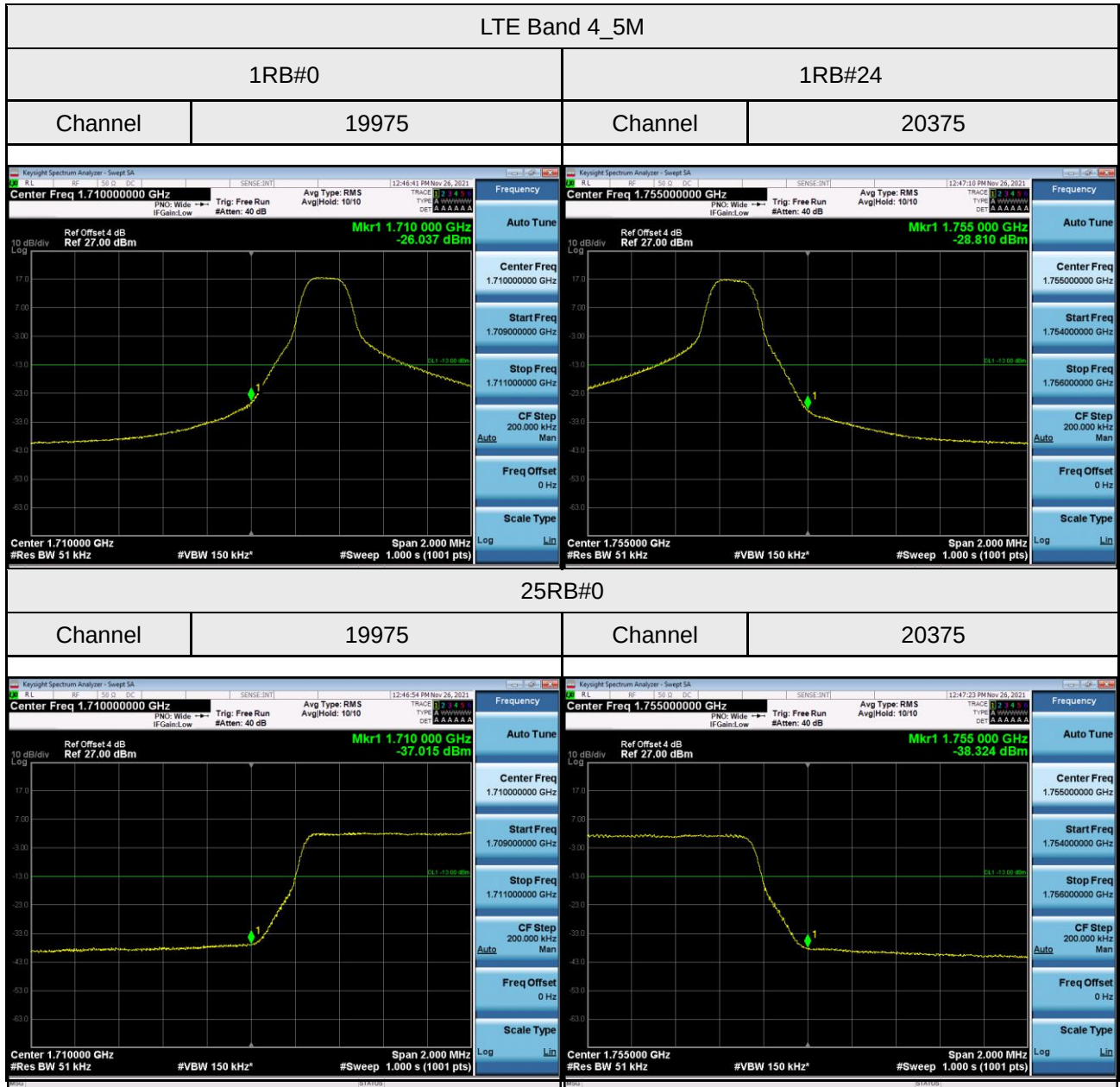
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 3472.000     | -61.19                  | -5.92                   | -67.11                  | -13.00       | -54.11       | RMS      |         |

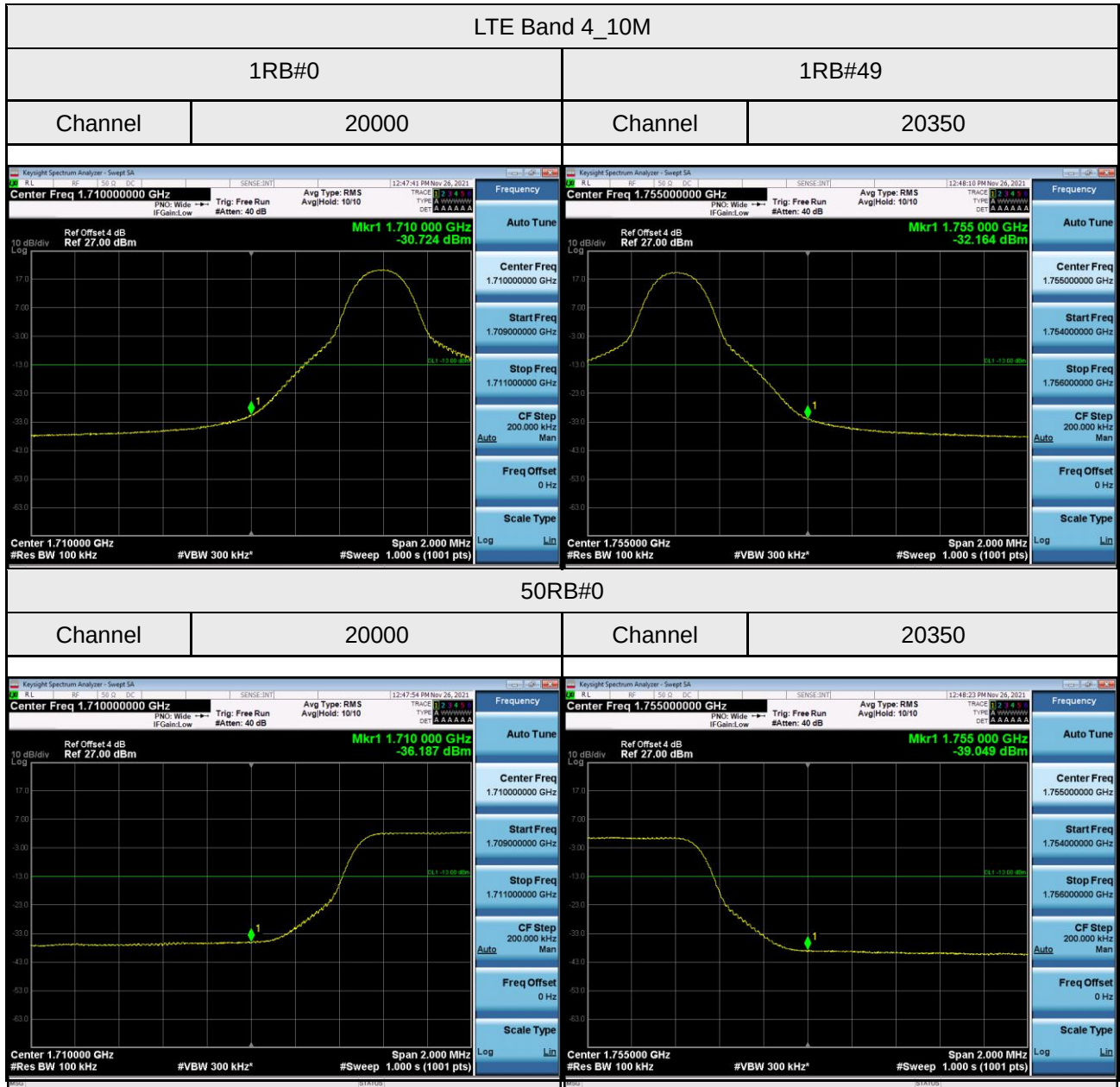
## **APPENDIX G - BAND EDGE**

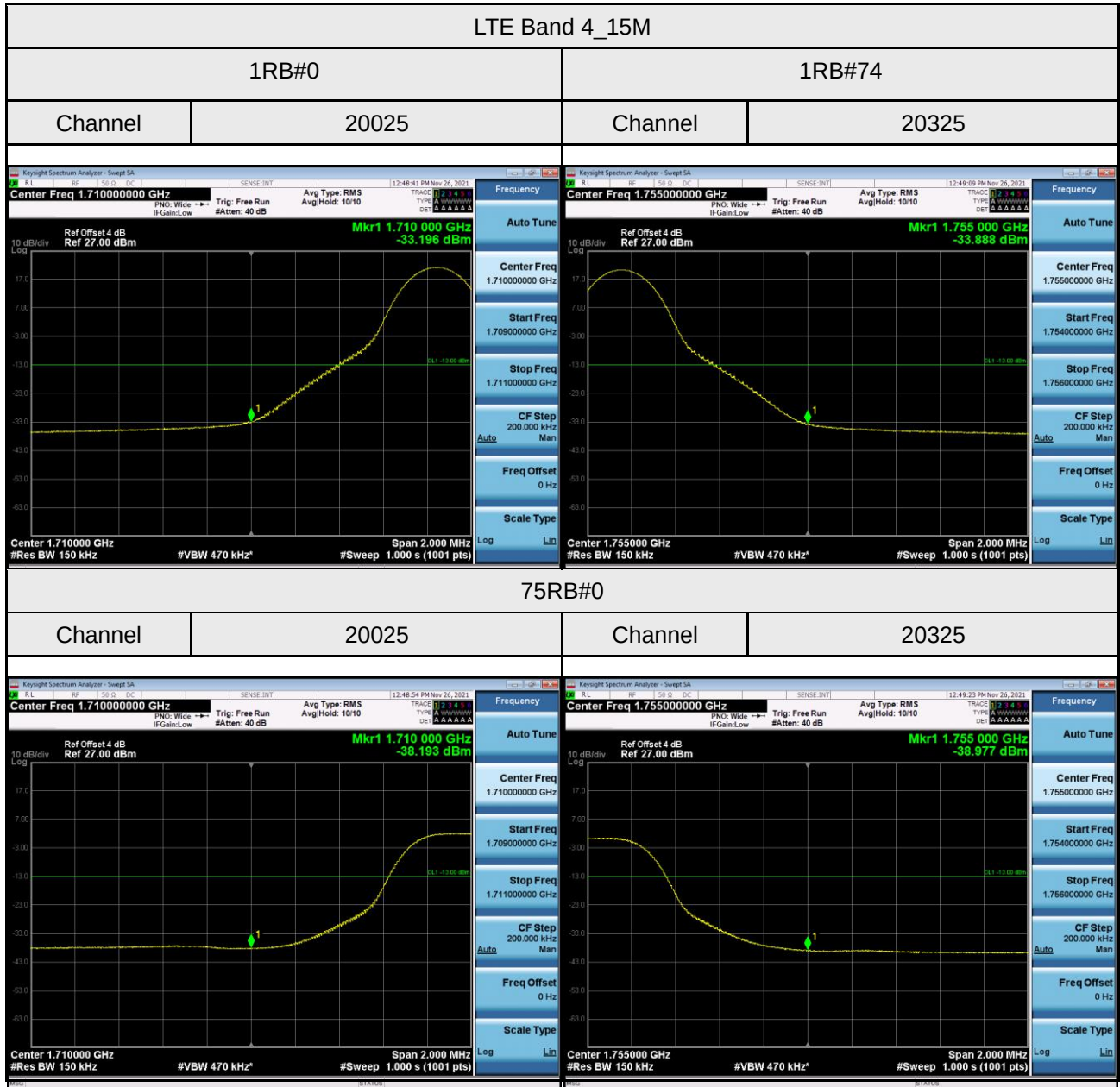


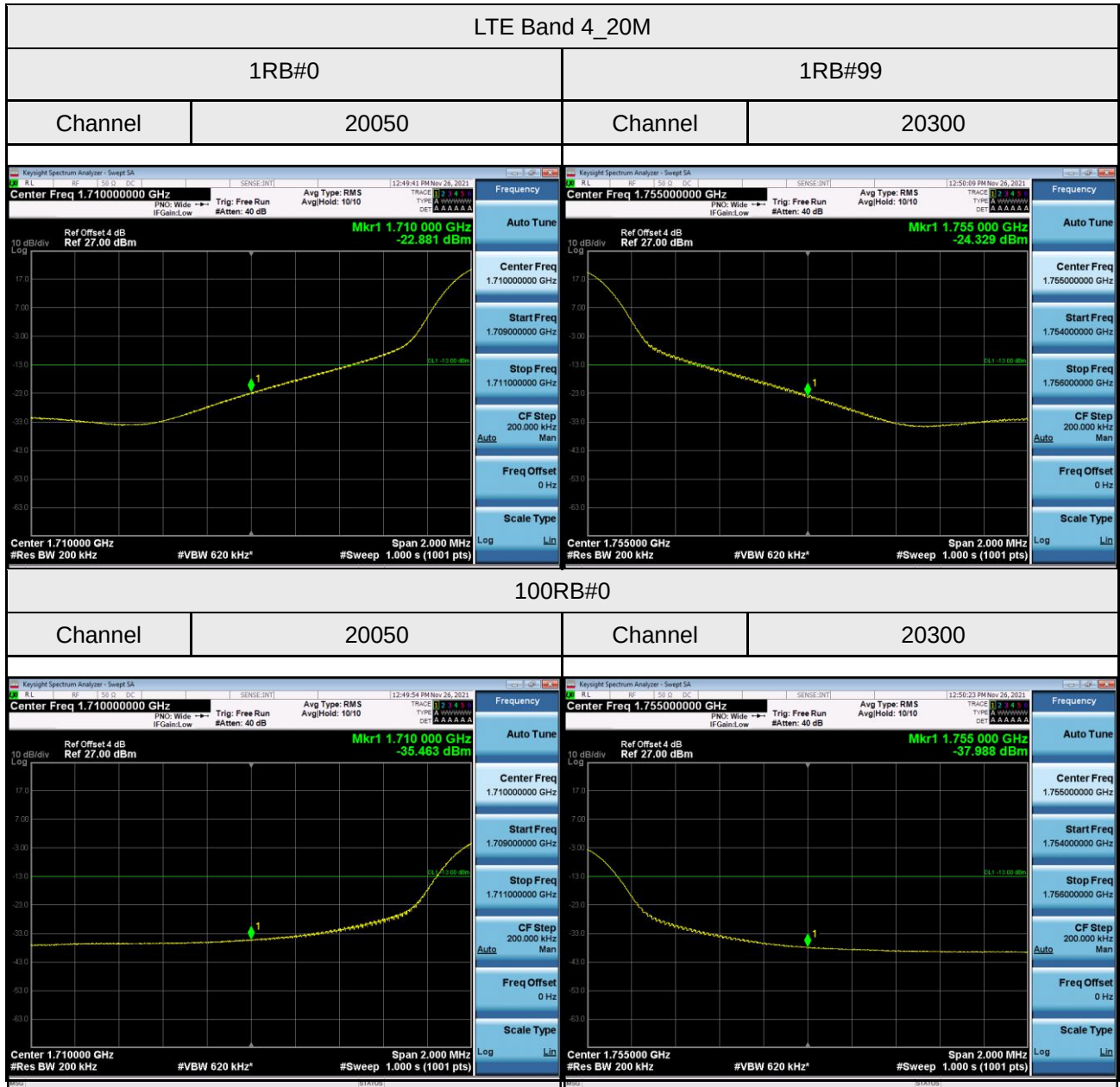


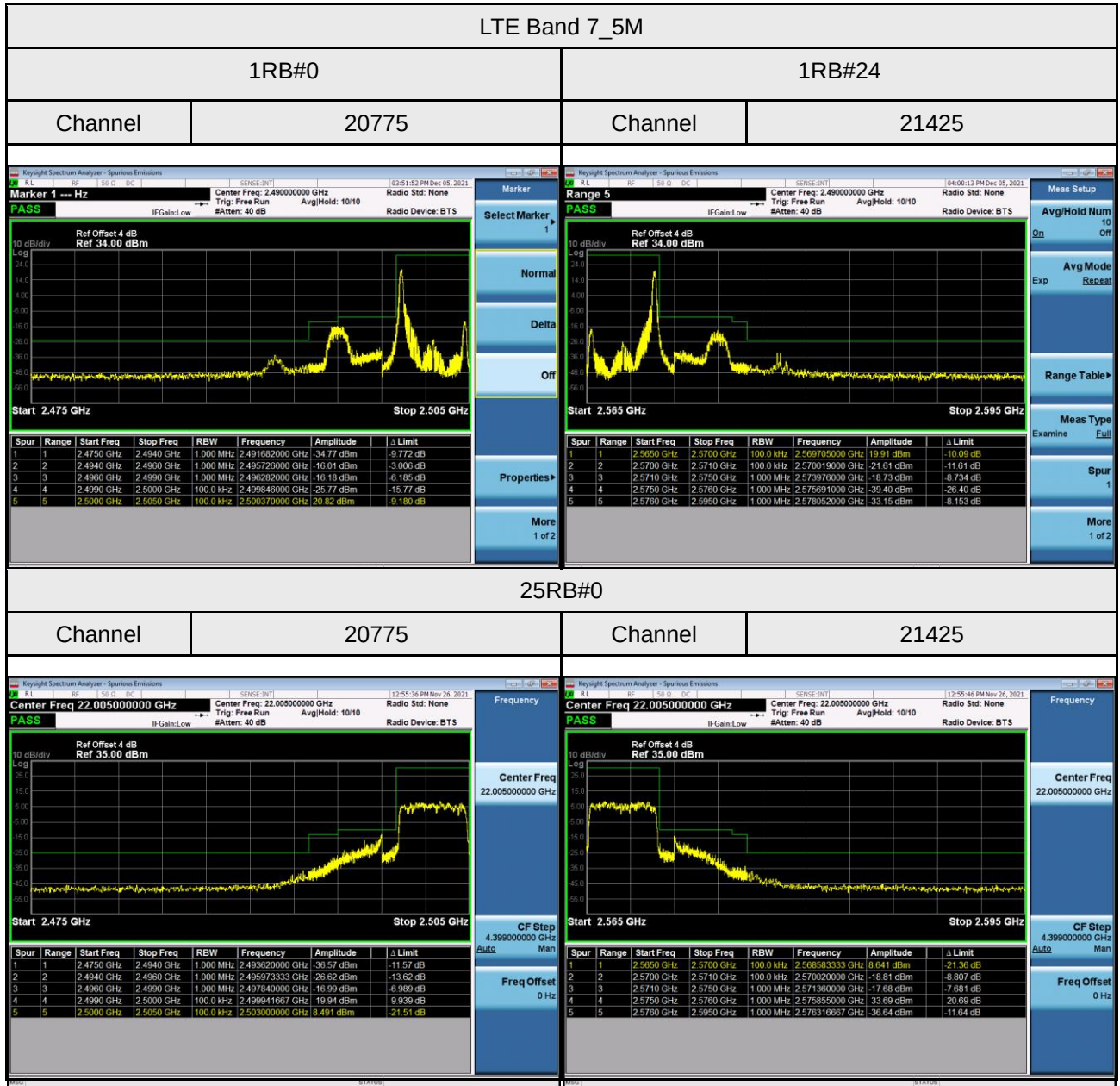


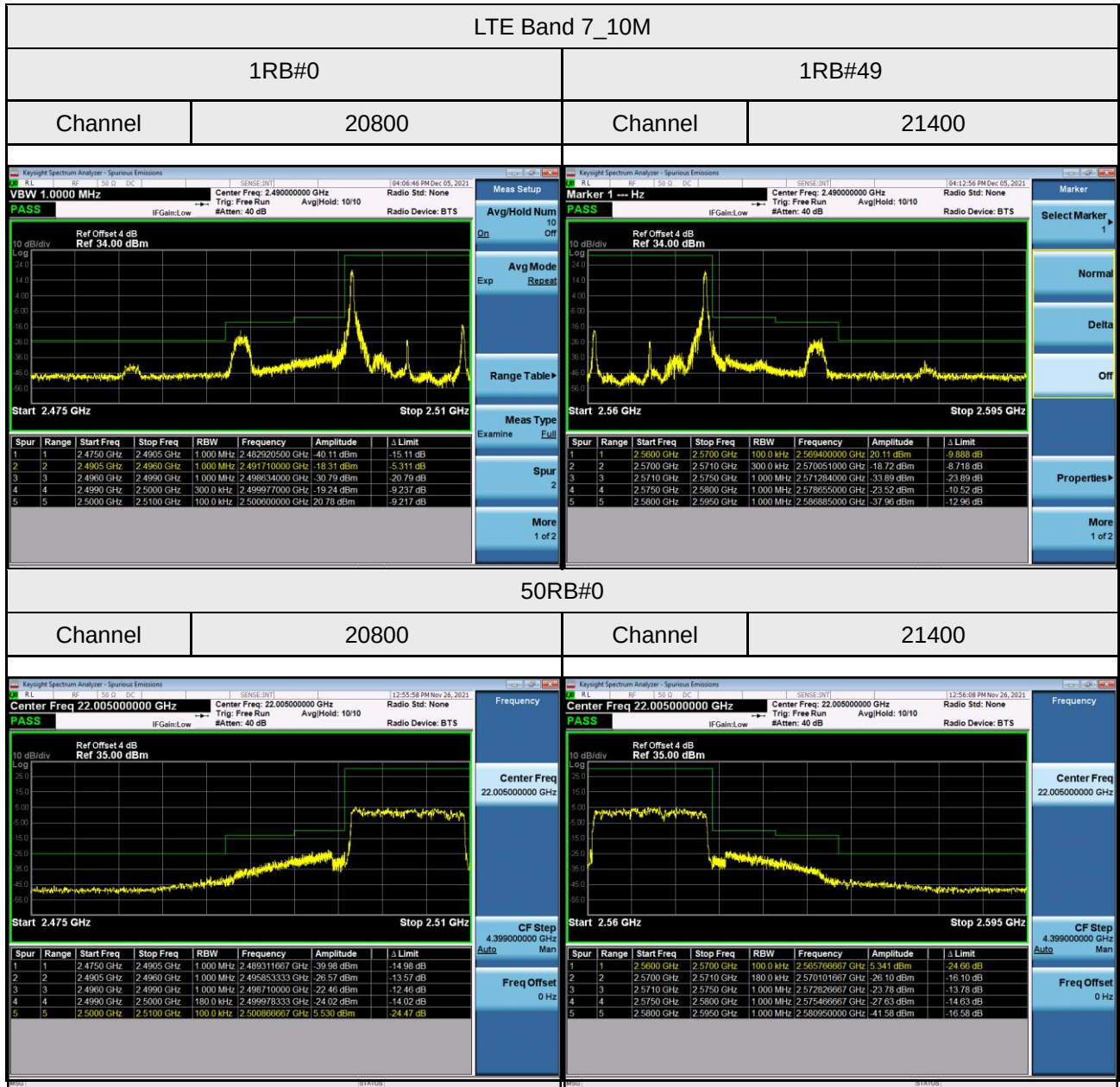


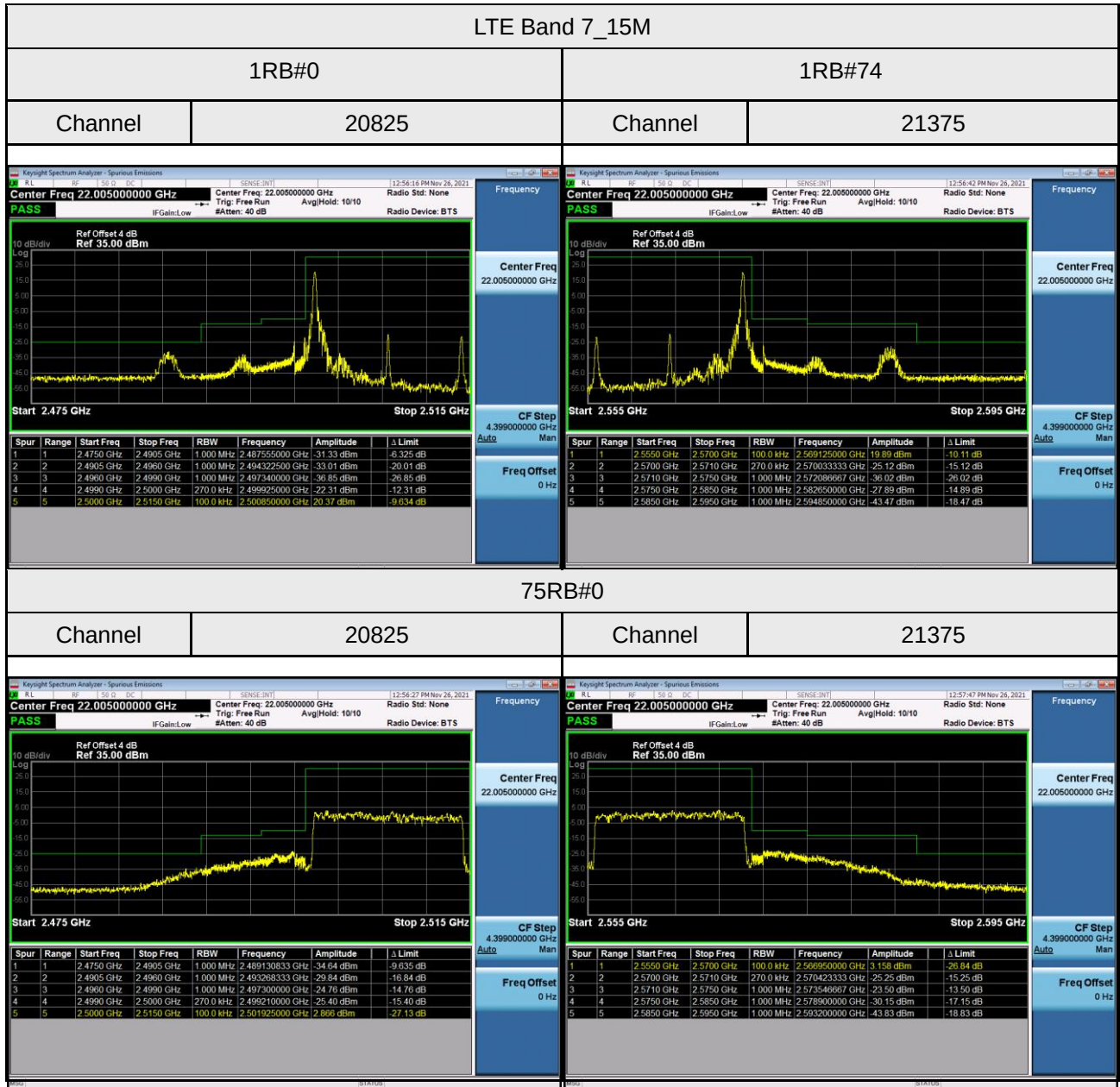


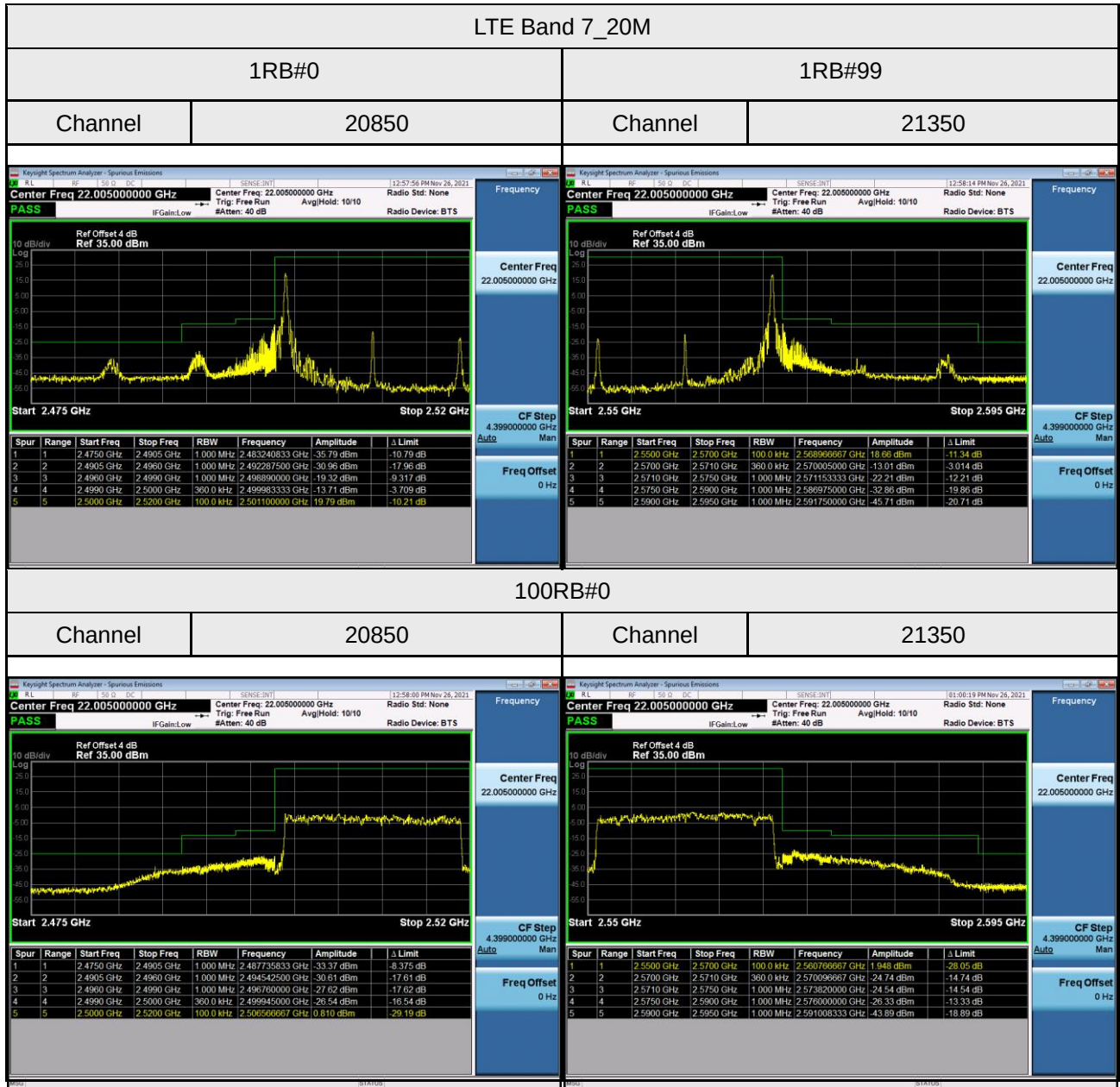


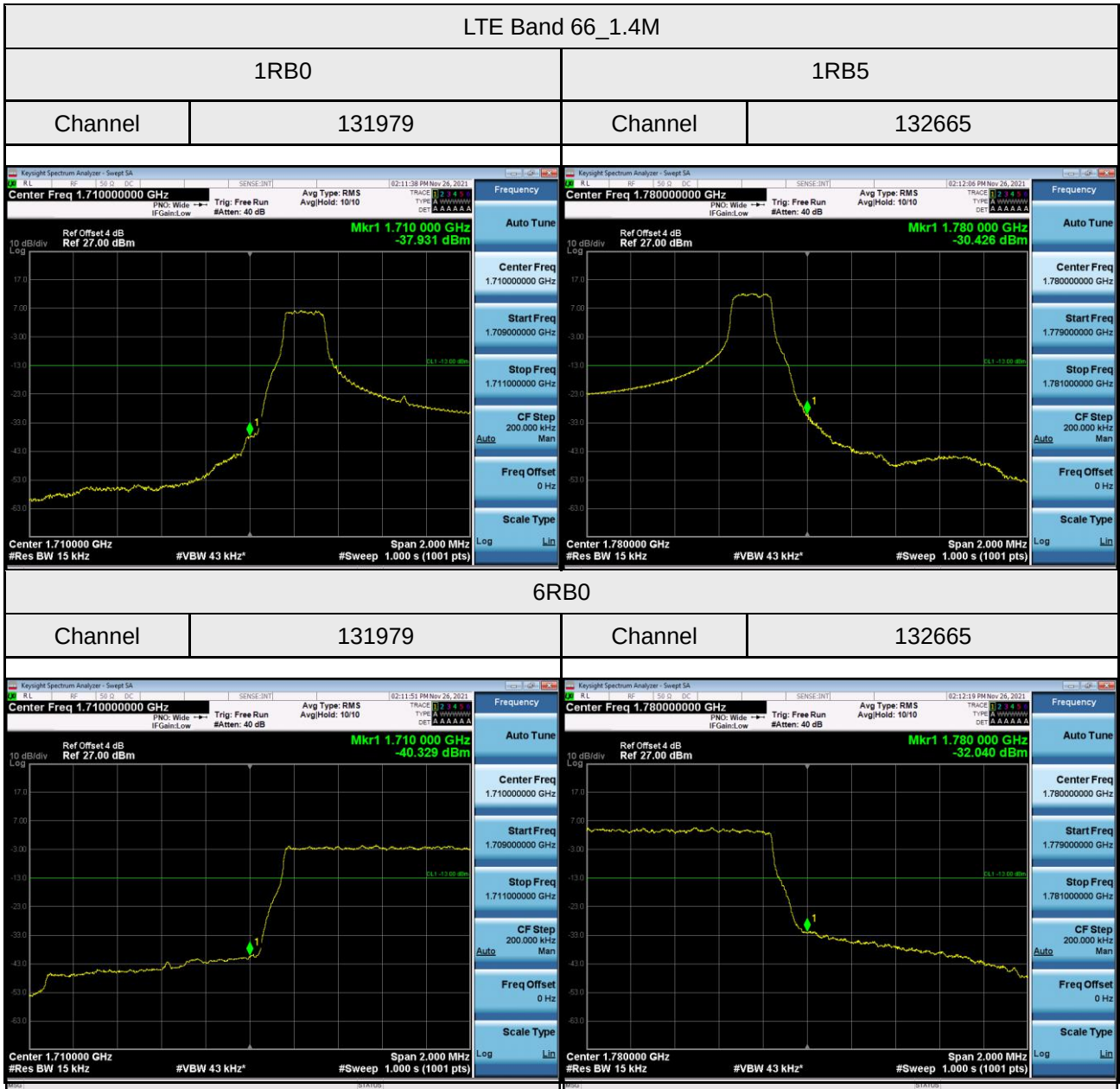


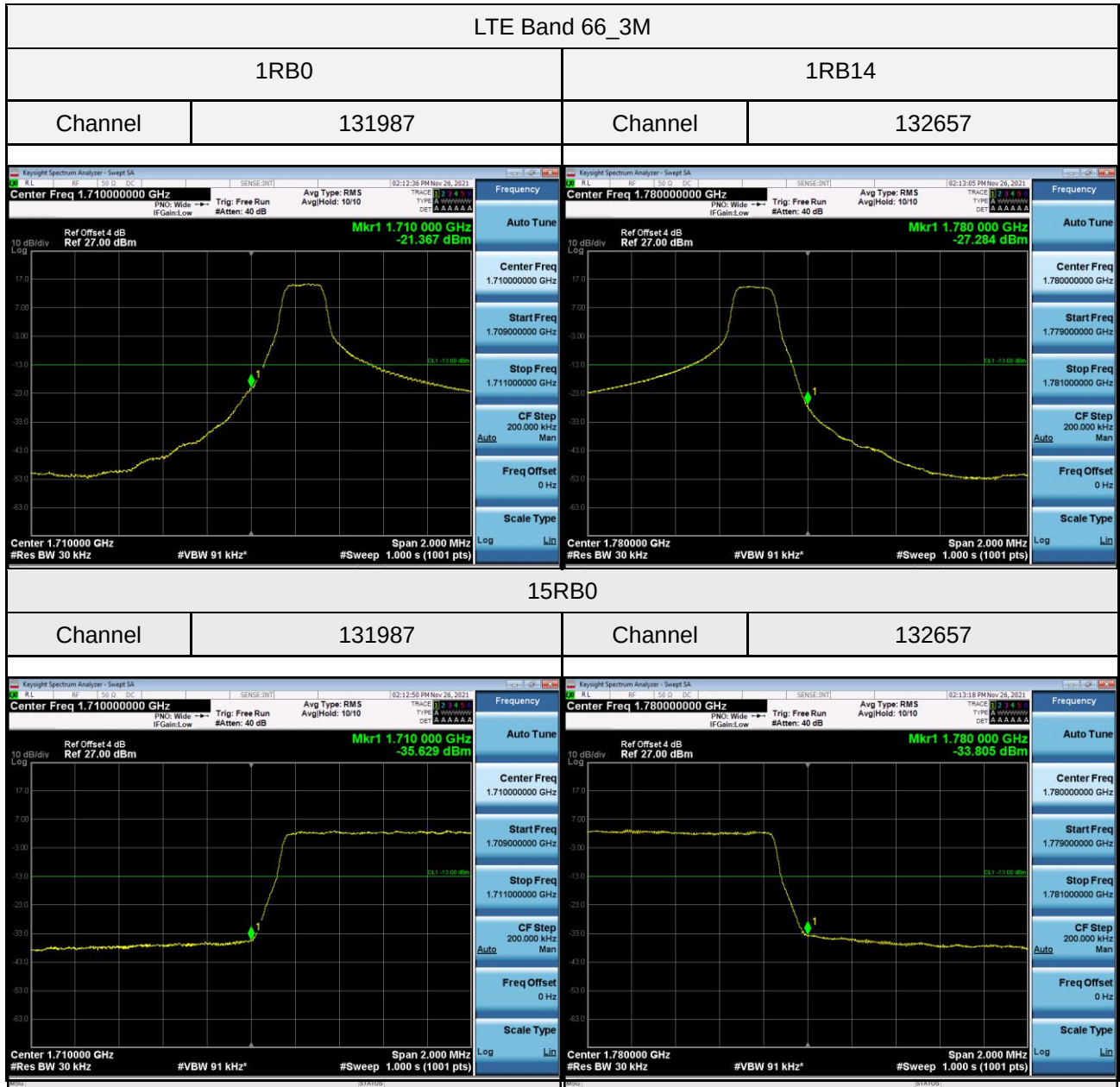


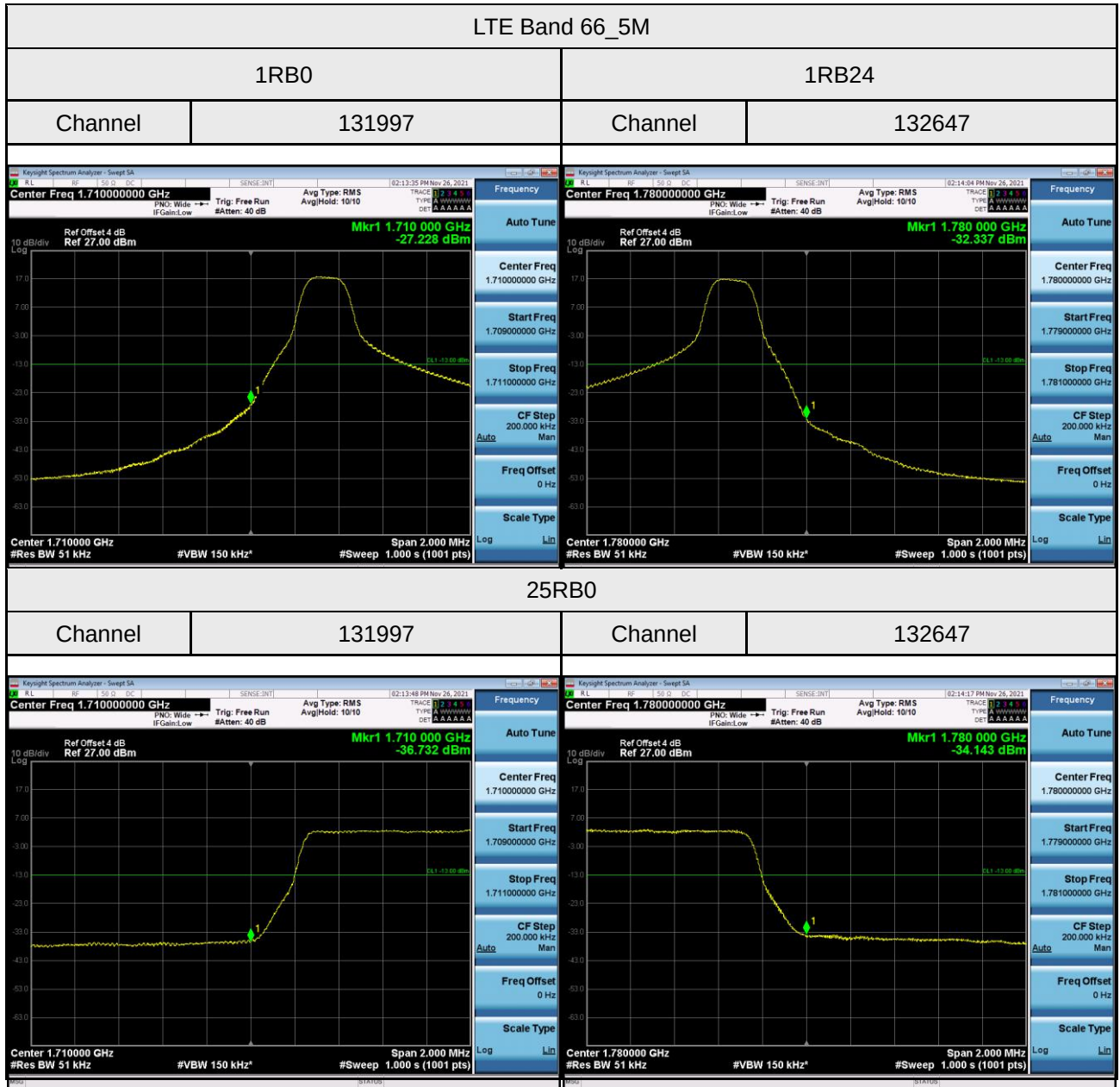


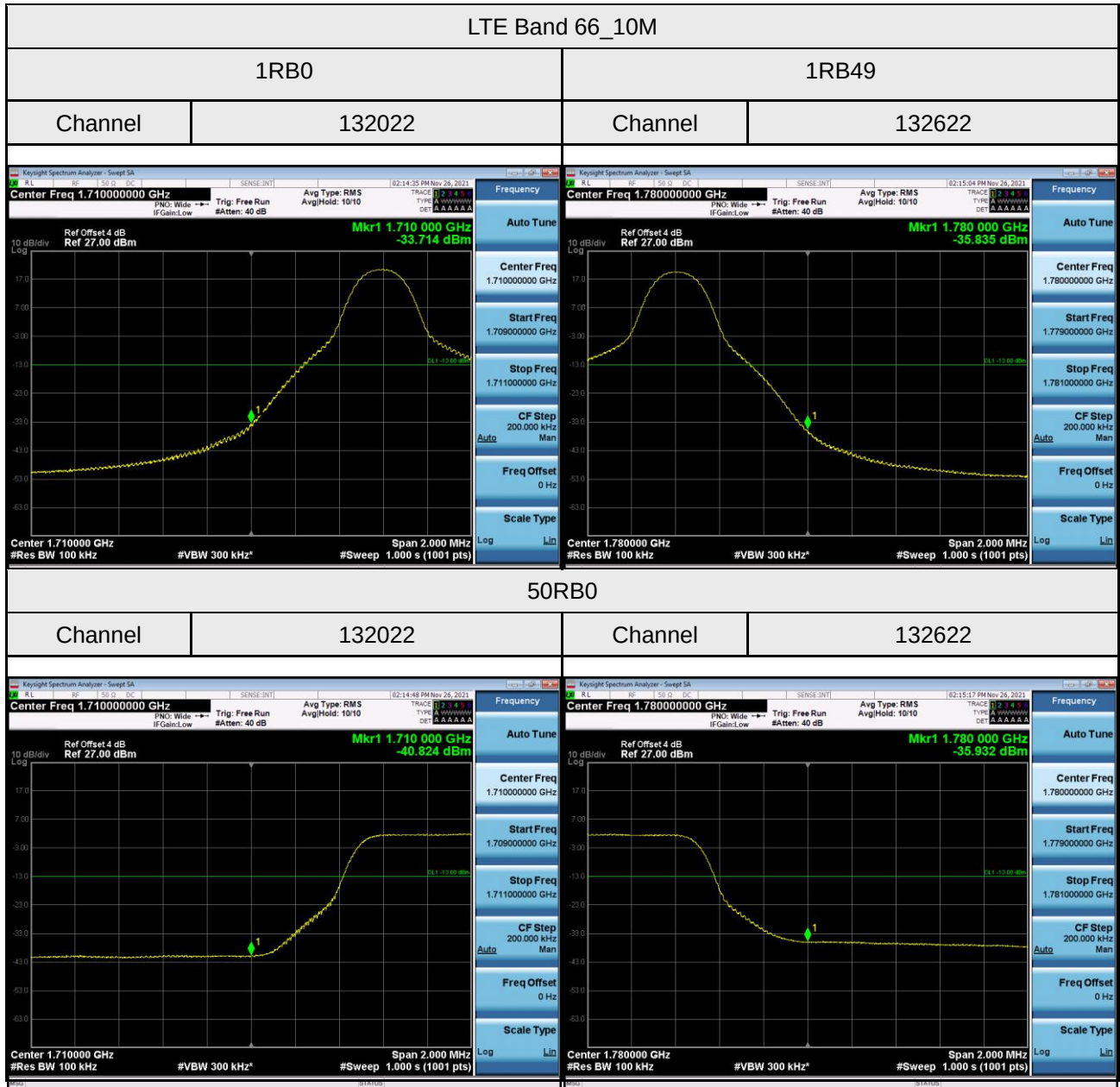


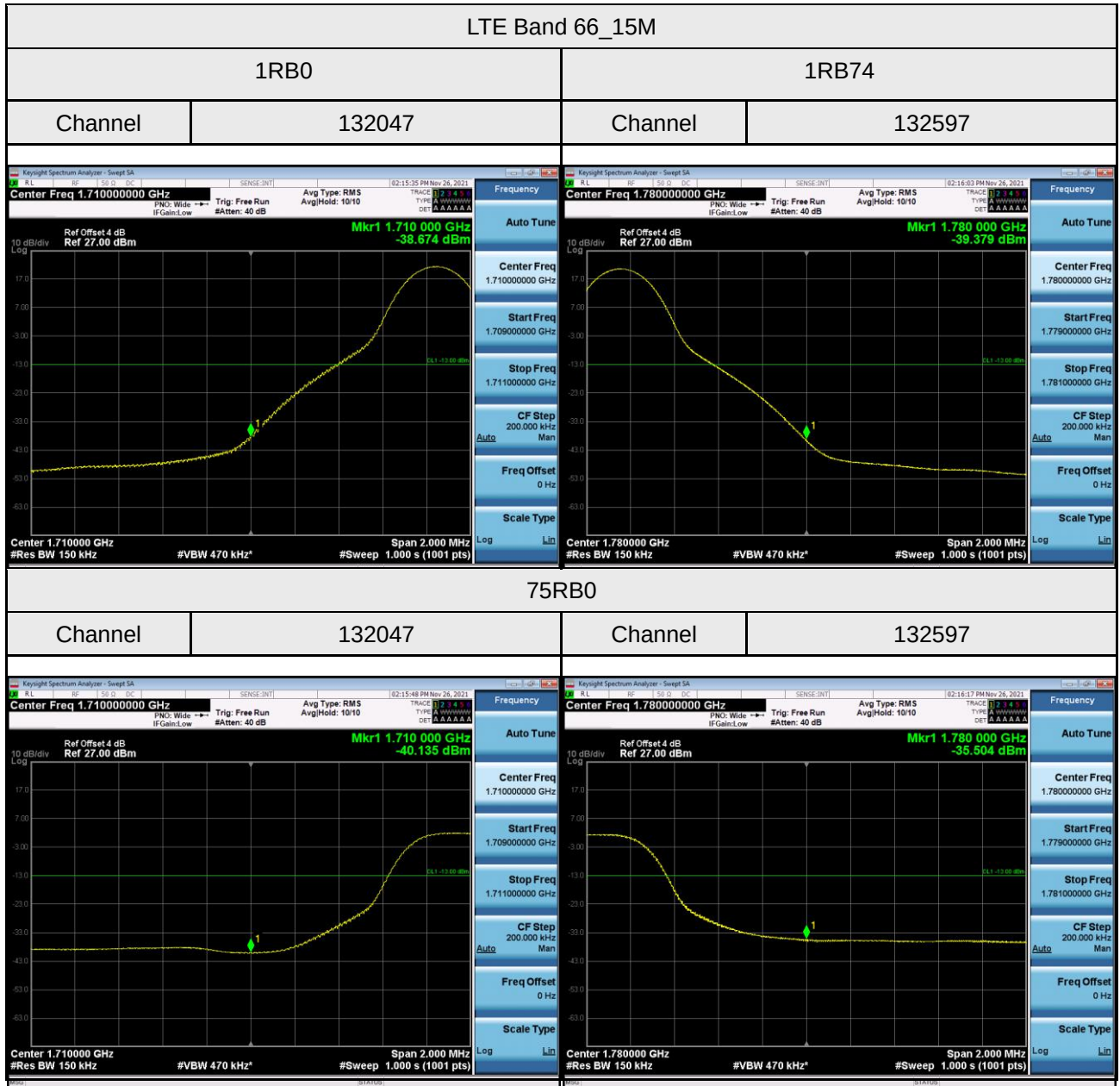


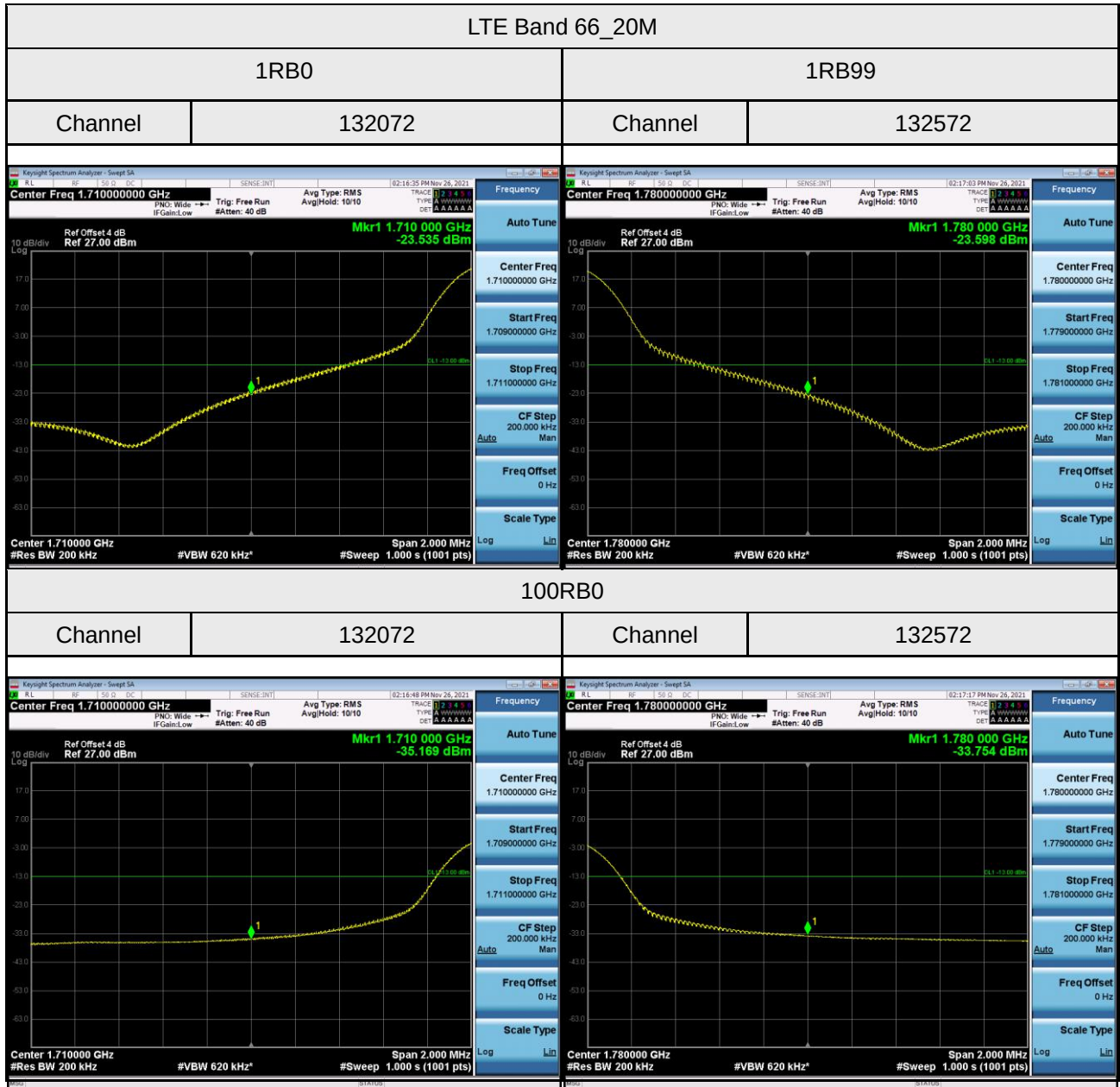






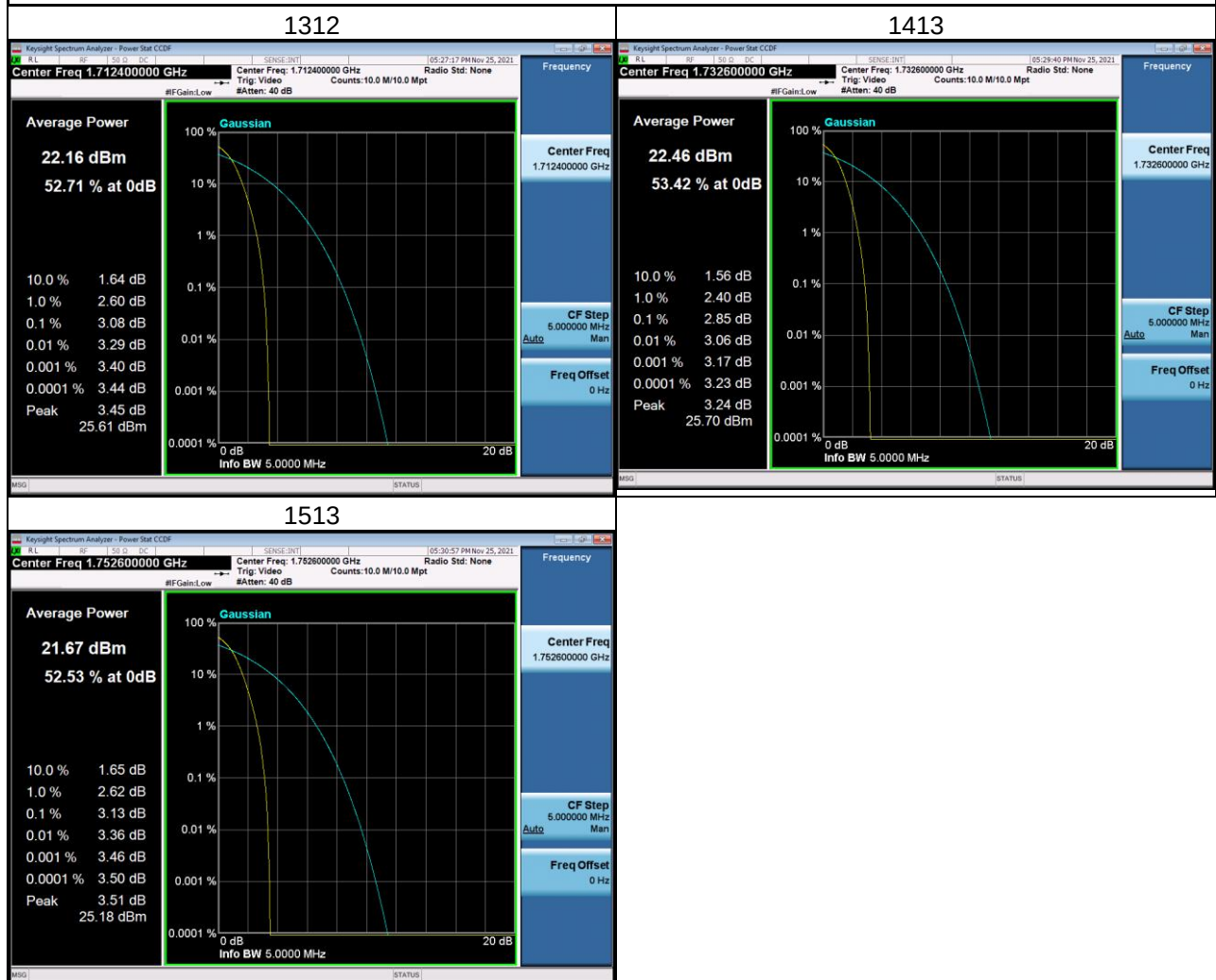






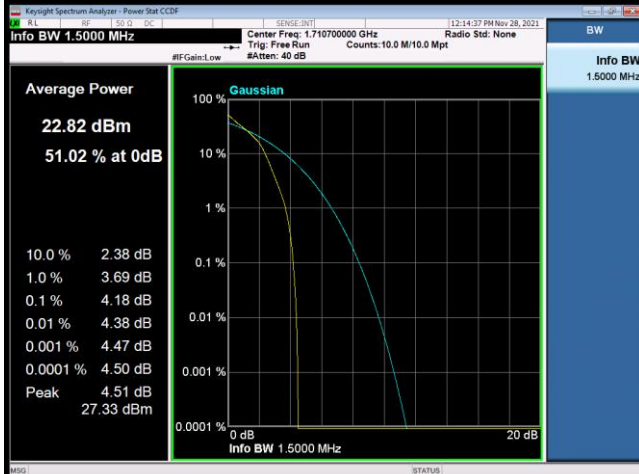
## APPENDIX H - PEAK TO AVERAGE RATIO

## WCDMA Band IV Spectrum Plot\_WCDMA

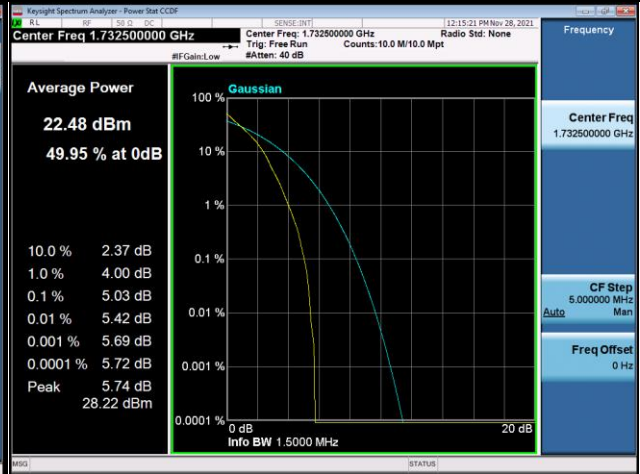


## LTE Band 4 \_1.4M

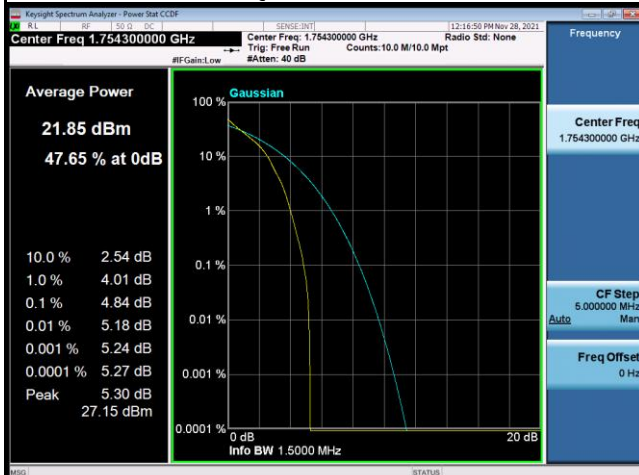
### QPSK-19957



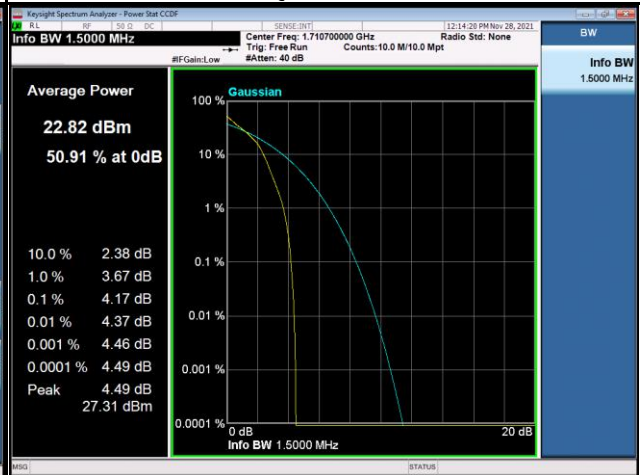
### QPSK-20175



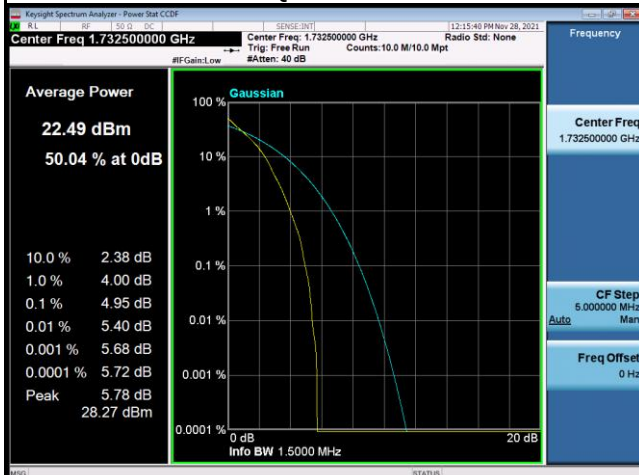
### QPSK-20393



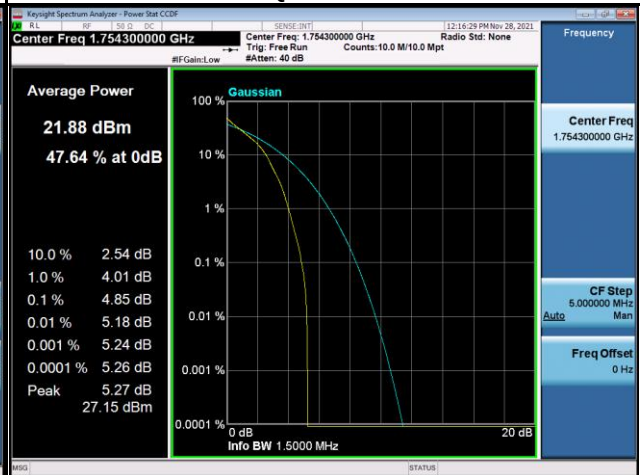
### 16QAM-19957



### 16QAM-20175

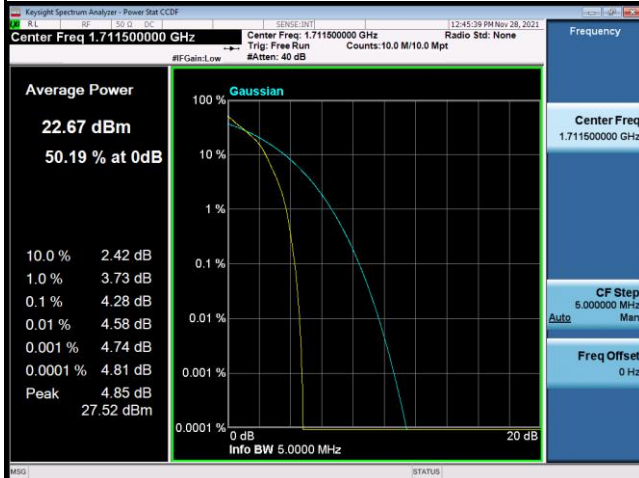


### 16QAM-20393

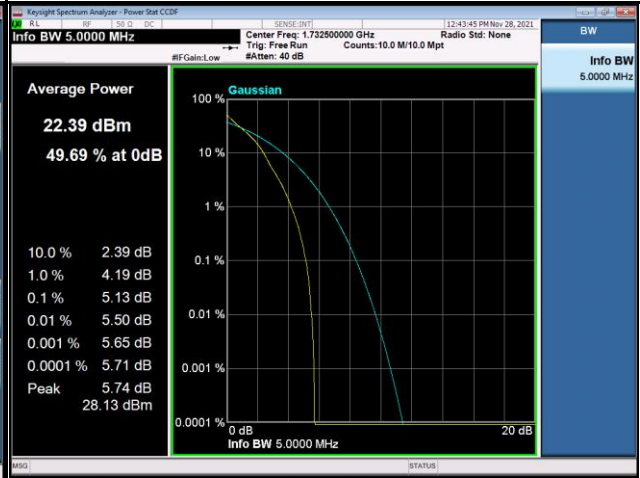


## LTE Band 4\_3M

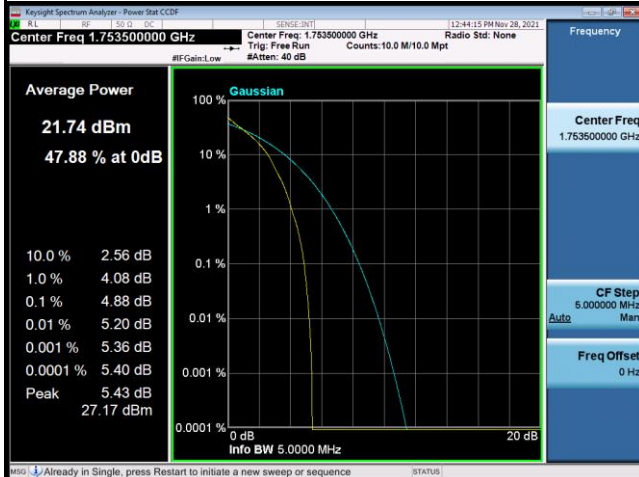
### QPSK-19965



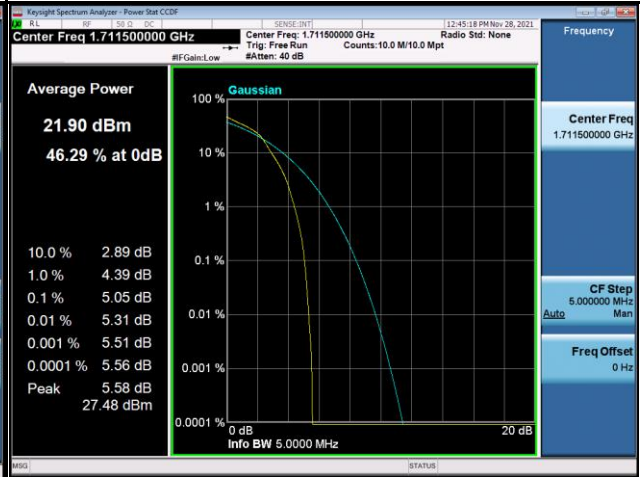
### QPSK-20175



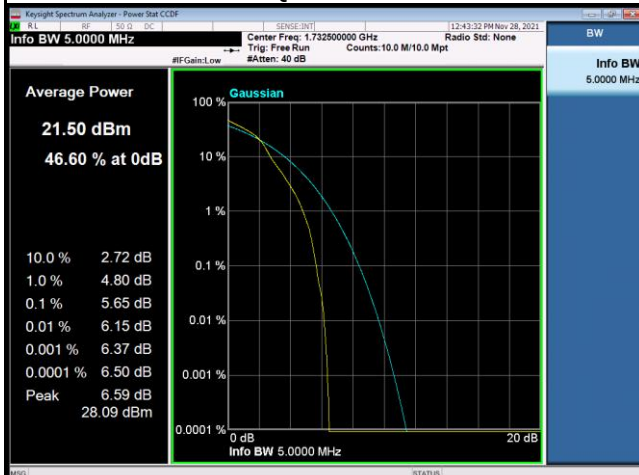
### QPSK-20385



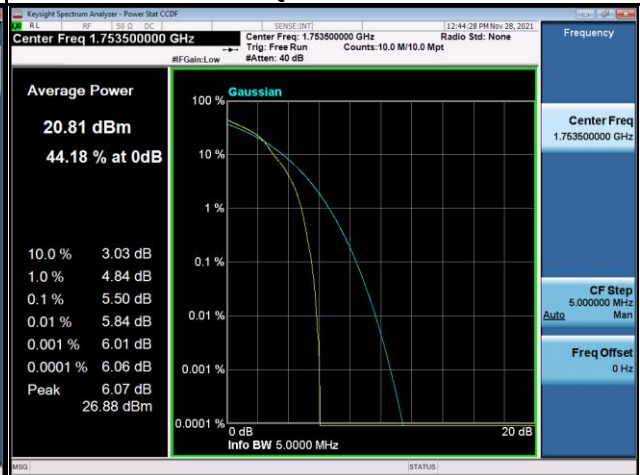
### 16QAM-19965



### 16QAM-20175

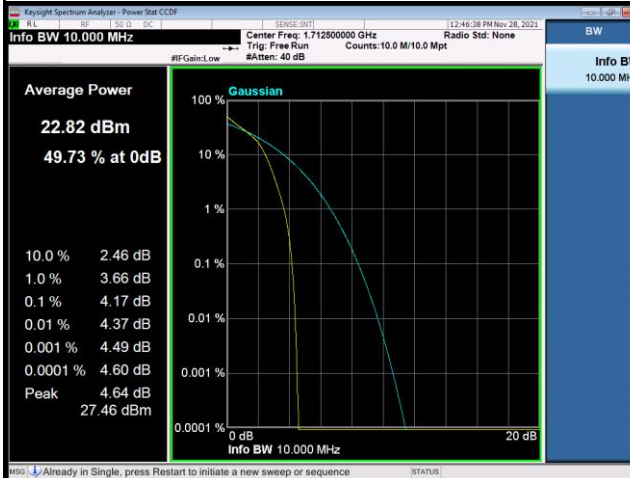


### 16QAM-20385

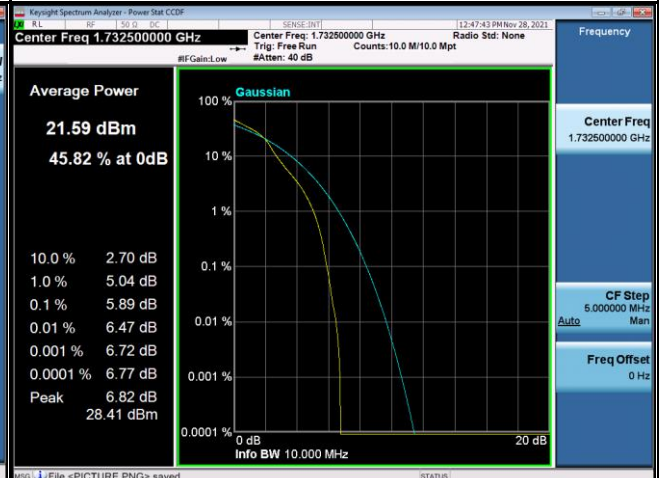


## LTE Band 4\_5M

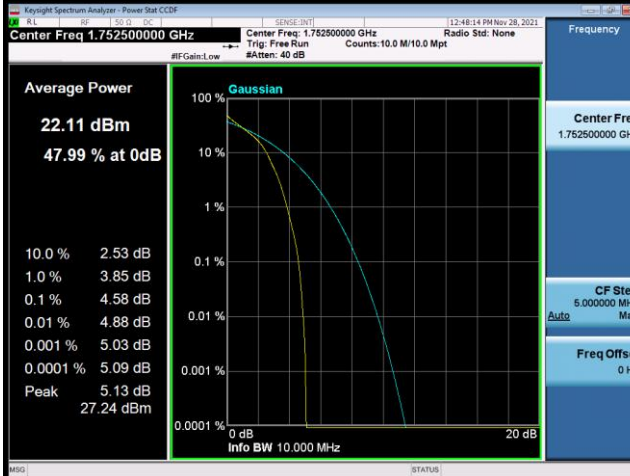
### QPSK-19975



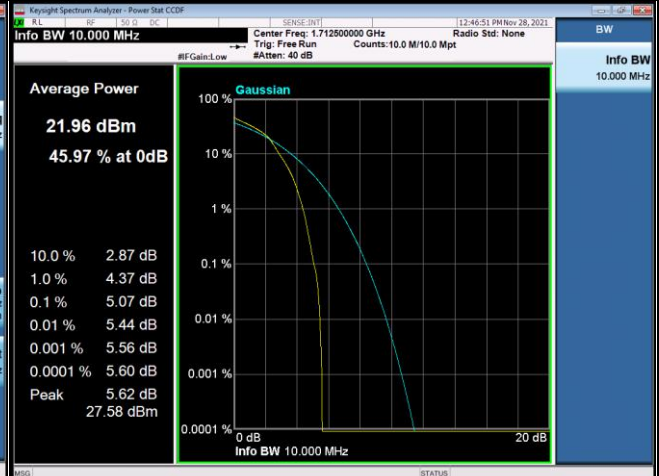
### QPSK-20175



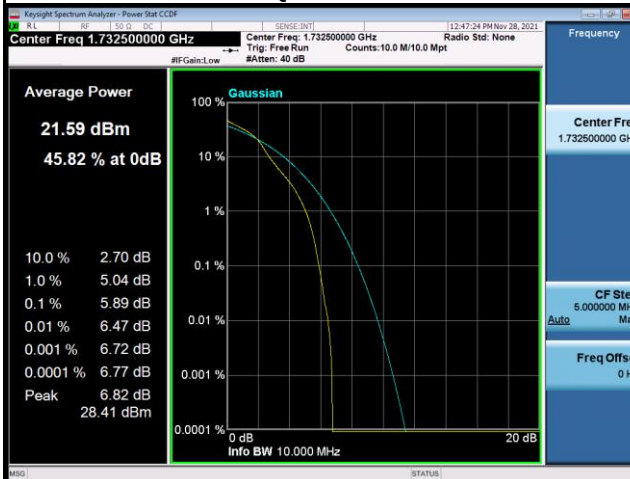
### QPSK-20375



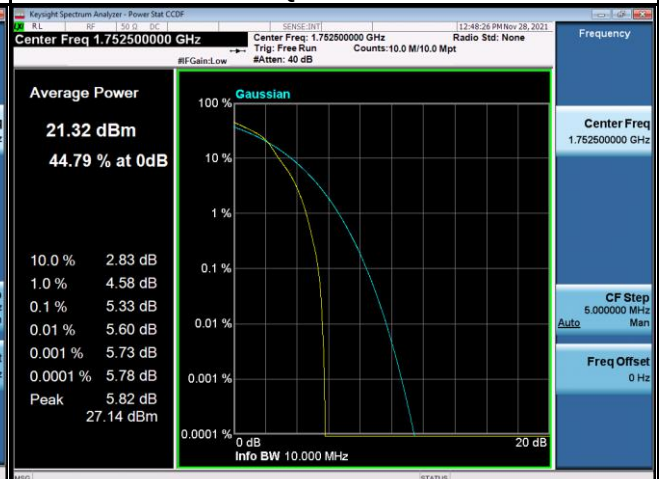
### 16QAM-19975



### 16QAM-20175



### 16QAM-20375

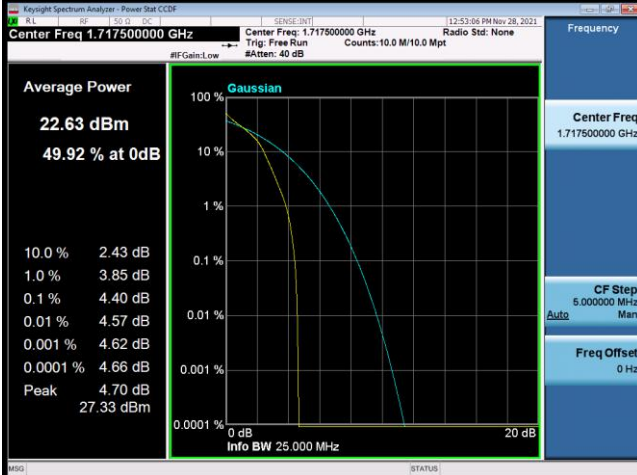


## LTE Band 4\_10M

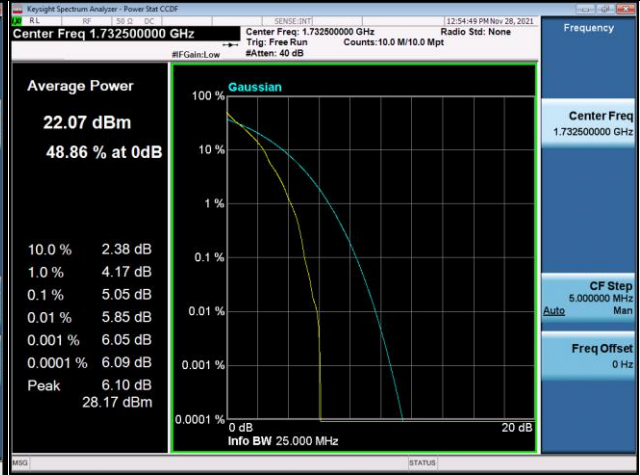


## LTE Band 4 \_15M

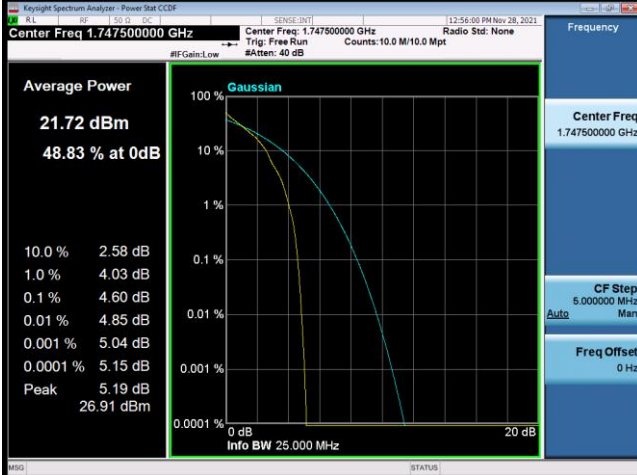
### QPSK-20025



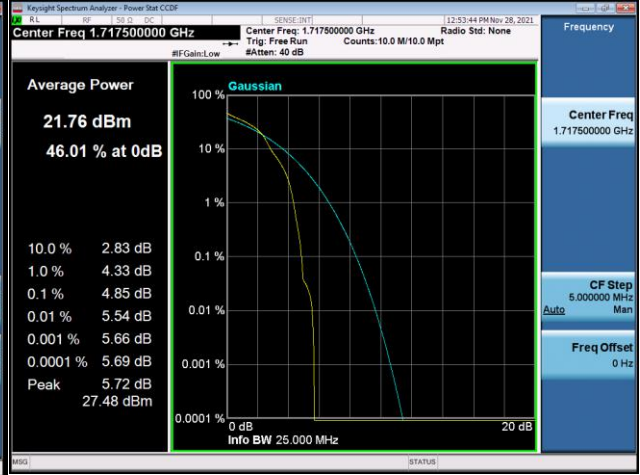
### QPSK-20175



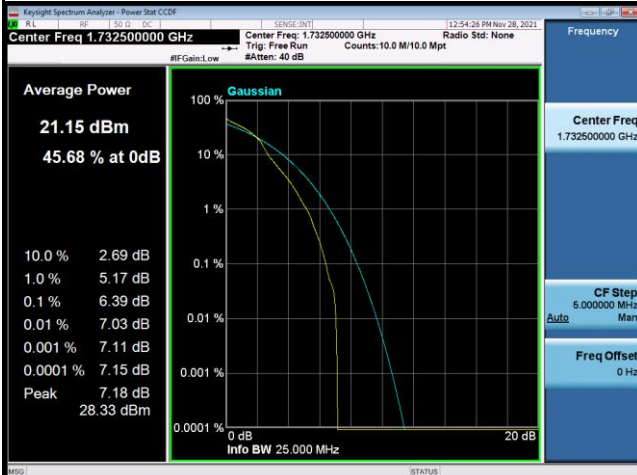
### QPSK-20325



### 16QAM-20025



### 16QAM-20175



### 16QAM-20325

