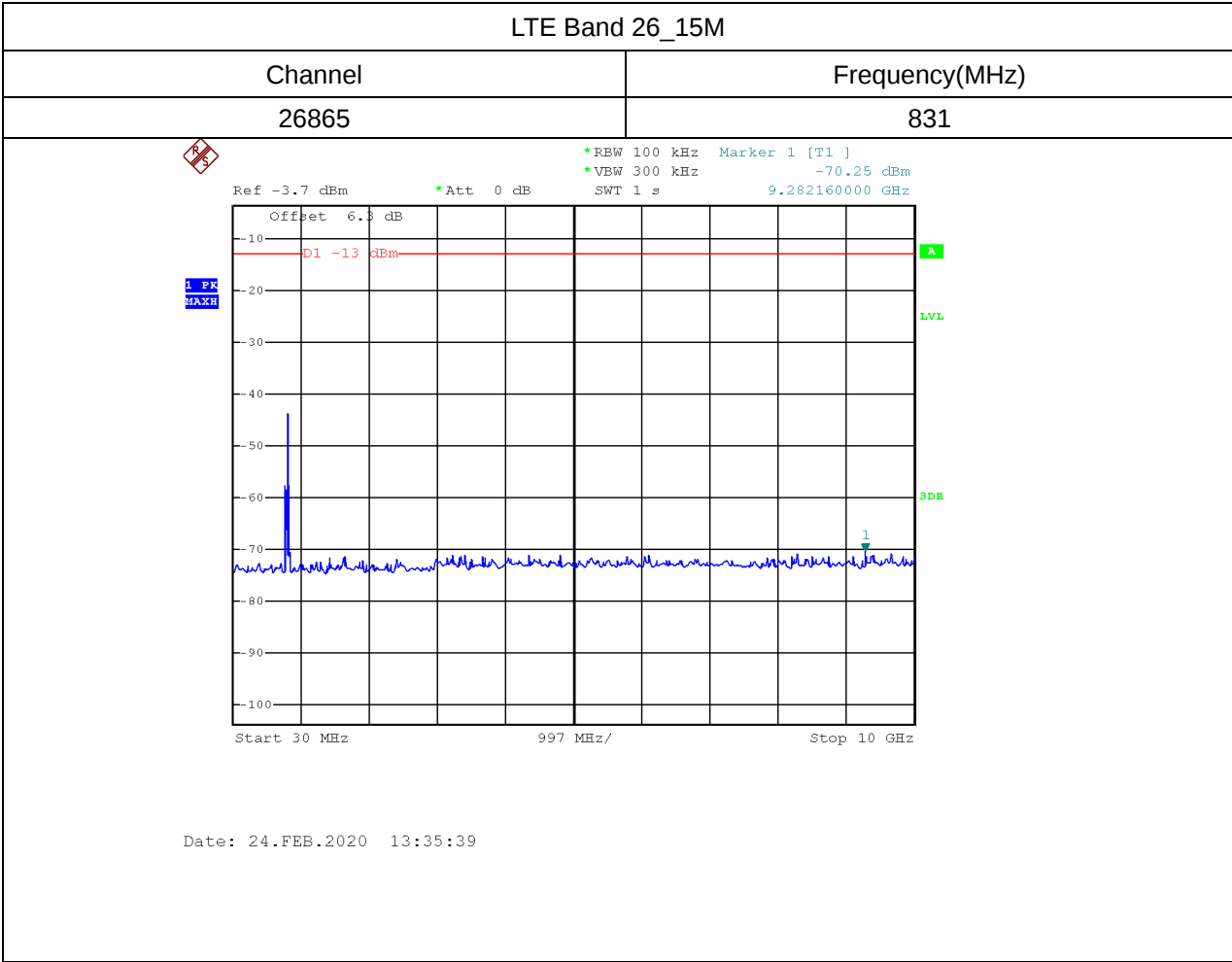
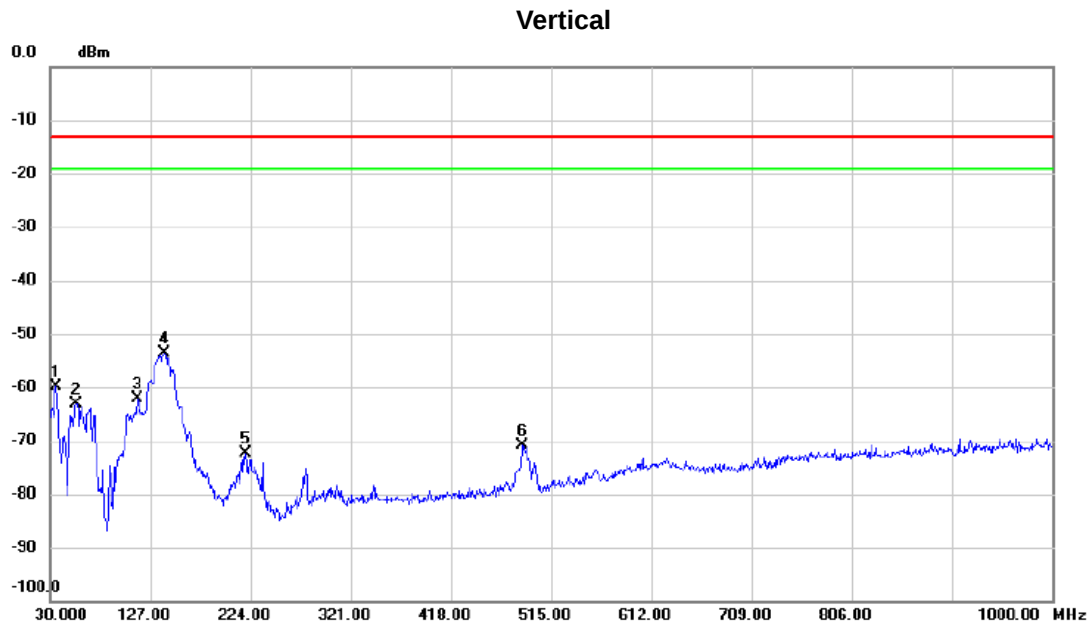




## **APPENDIX D - RADIATED EMISSION (30MHZ TO 1GHZ)**

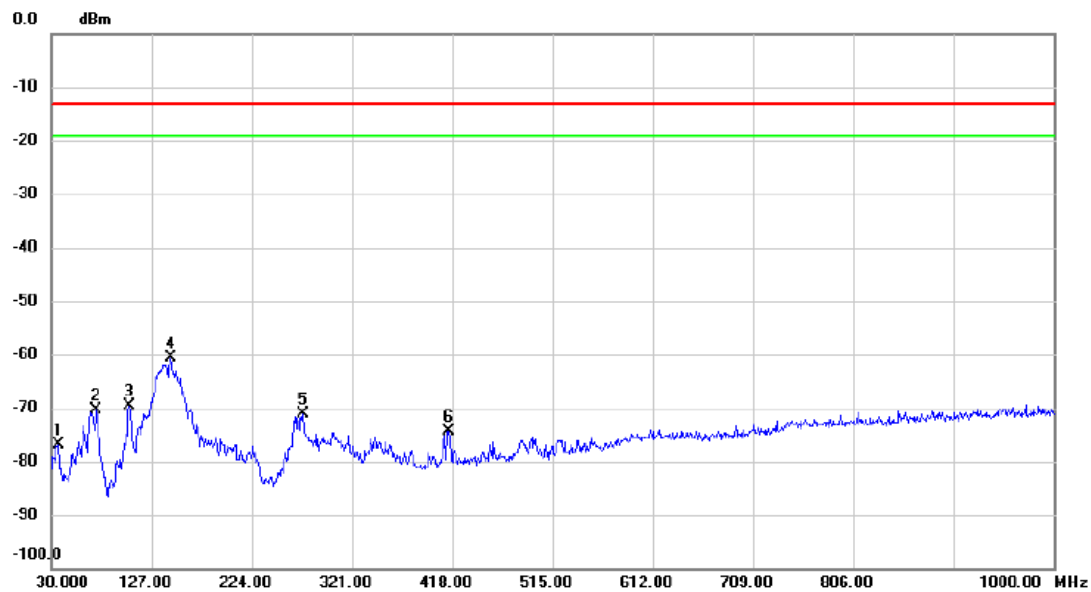
Test Mode: LTE Band 26\_TX CH27033\_1.4M



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Margin |          |         |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Detector | Comment |
|     |     |          | dBm     | dB      | dBm      | dBm    | dB     |          |         |
| 1   |     | 35.8200  | -42.67  | -17.08  | -59.75   | -13.00 | -46.75 | peak     |         |
| 2   |     | 55.2200  | -45.74  | -17.30  | -63.04   | -13.00 | -50.04 | peak     |         |
| 3   |     | 114.3900 | -44.47  | -17.68  | -62.15   | -13.00 | -49.15 | peak     |         |
| 4   | *   | 140.5800 | -37.94  | -15.63  | -53.57   | -13.00 | -40.57 | peak     |         |
| 5   |     | 219.1500 | -54.36  | -18.01  | -72.37   | -13.00 | -59.37 | peak     |         |
| 6   |     | 486.8700 | -58.10  | -12.76  | -70.86   | -13.00 | -57.86 | peak     |         |

Test Mode: LTE Band 26\_TX CH27033\_1.4M

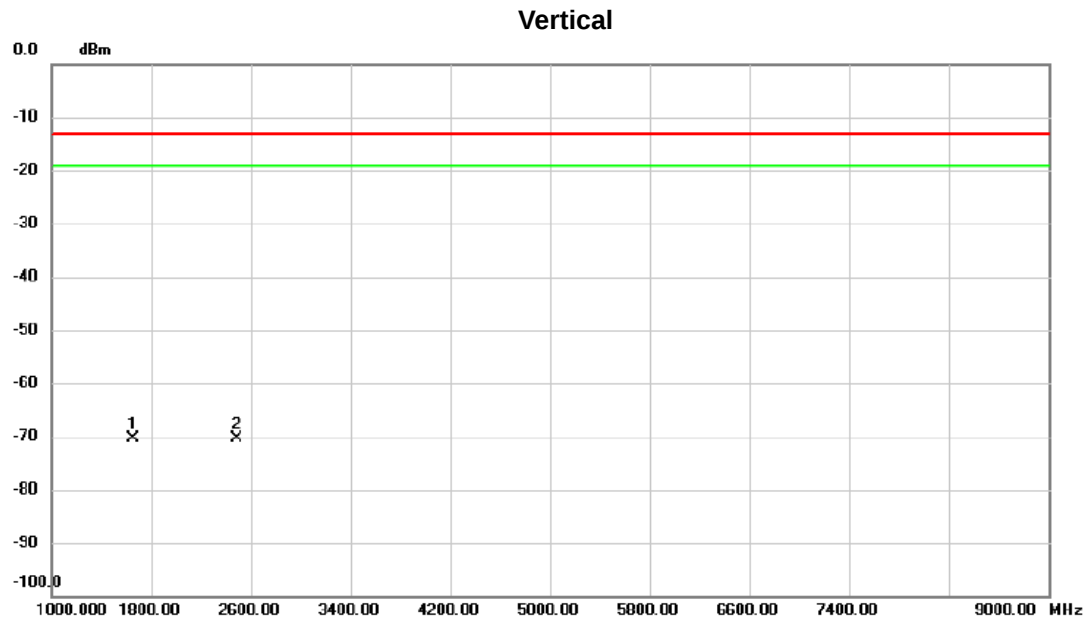
## Horizontal



| 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   |     | 36.7900      | -59.93                  | -16.87                  | -76.80                  | -13.00       | -63.80       | peak     |         |
| 2   |     | 73.6500      | -50.34                  | -20.04                  | -70.38                  | -13.00       | -57.38       | peak     |         |
| 3   |     | 105.6600     | -50.68                  | -18.90                  | -69.58                  | -13.00       | -56.58       | peak     |         |
| 4   | *   | 145.4300     | -45.49                  | -15.21                  | -60.70                  | -13.00       | -47.70       | peak     |         |
| 5   |     | 273.4700     | -55.47                  | -15.56                  | -71.03                  | -13.00       | -58.03       | peak     |         |
| 6   |     | 414.1200     | -61.05                  | -13.28                  | -74.33                  | -13.00       | -61.33       | peak     |         |

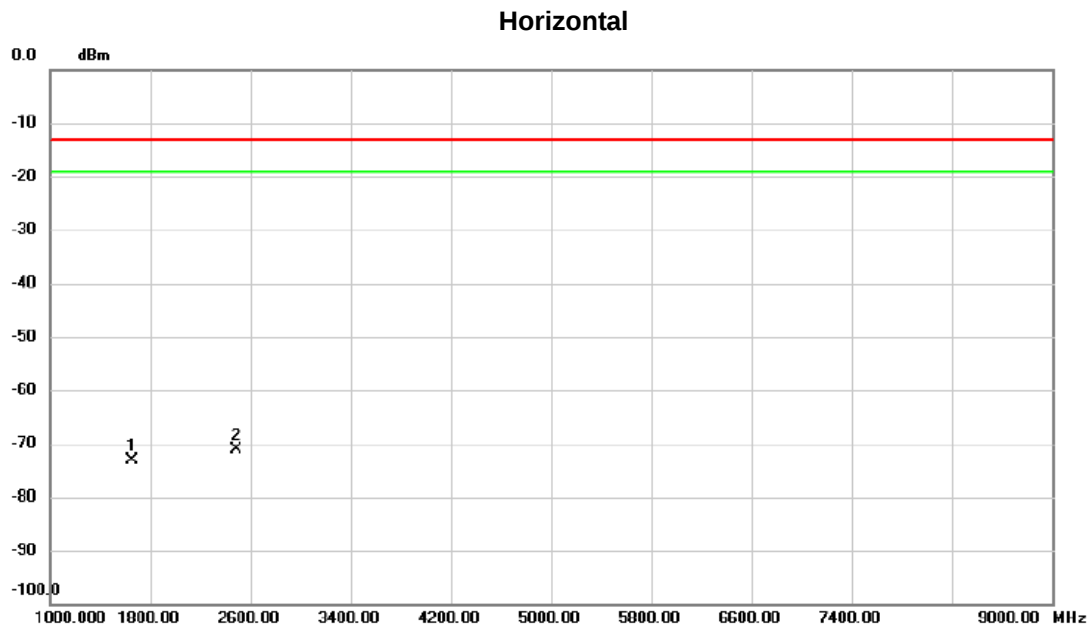
## **APPENDIX E - RADIATED EMISSION (ABOVE 1GHZ)**

Test Mode: LTE Band 26\_TX CH26865\_1.4M



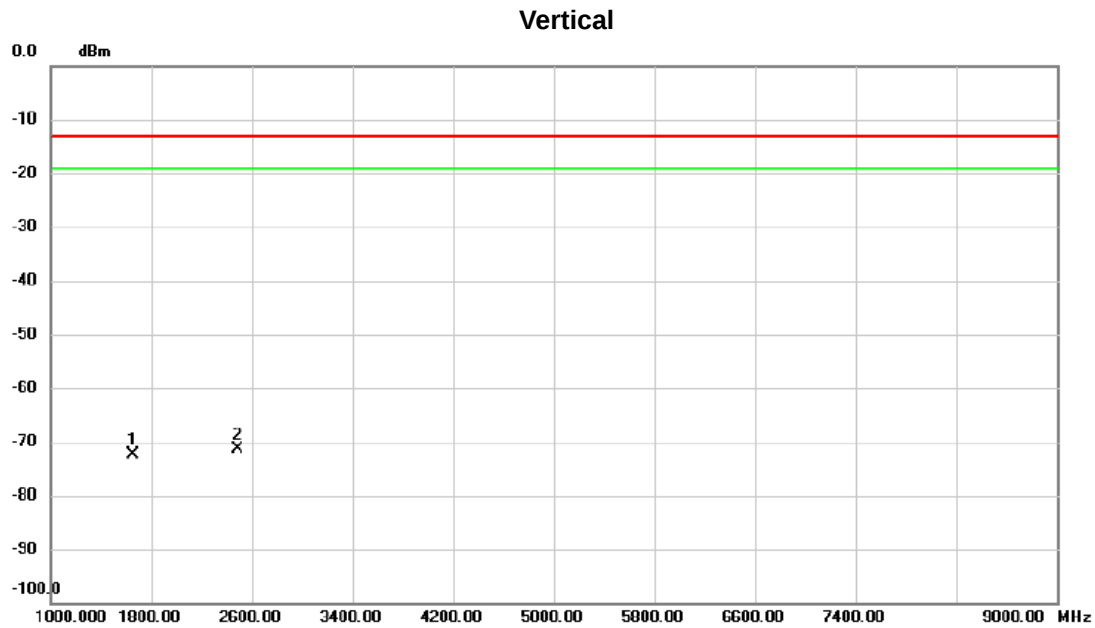
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 1660.920 | -51.63        | -18.79         | -70.42      | -13.00 | -57.42 | peak     |         |
| 2   | *   | 2491.380 | -54.34        | -16.04         | -70.38      | -13.00 | -57.38 | peak     |         |

Test Mode: LTE Band 26\_TX CH26865\_1.4M



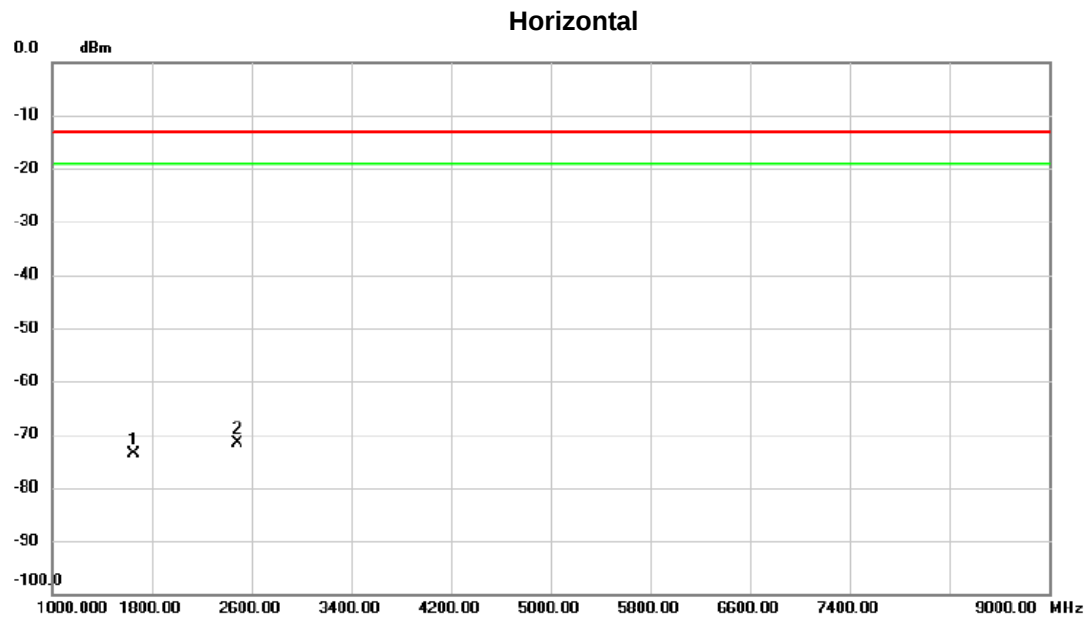
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 1660.920     | -54.37                  | -18.79                  | -73.16                  | -13.00       | -60.16       | peak     |         |
| 2   | *   | 2491.380     | -55.03                  | -16.04                  | -71.07                  | -13.00       | -58.07       | peak     |         |

Test Mode: LTE Band 26\_TX CH26865\_5M



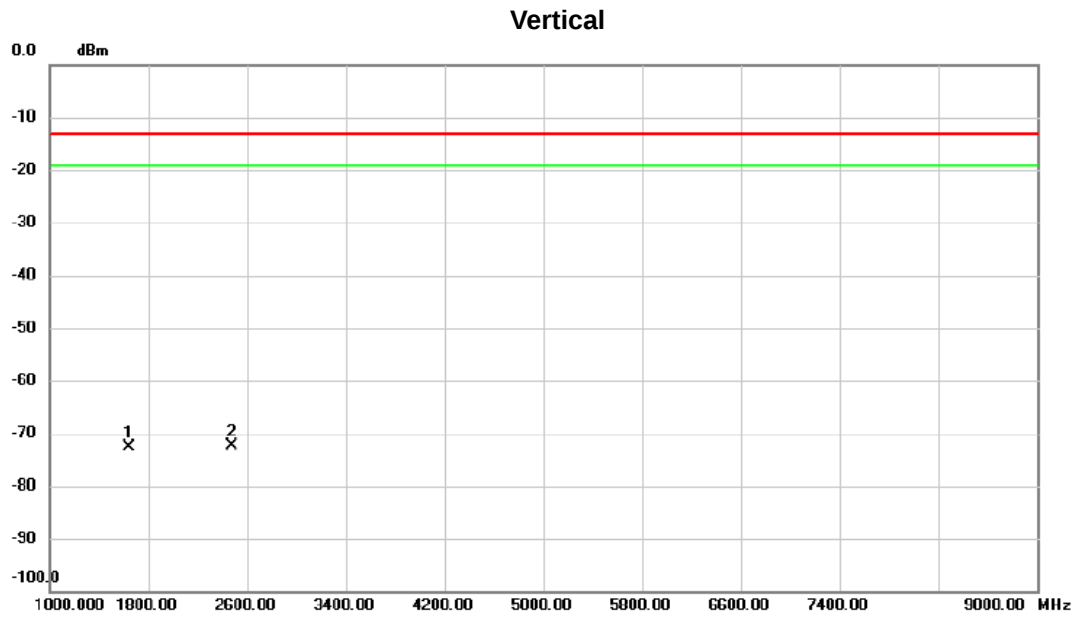
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 1657.680 | -53.55        | -18.79         | -72.34      | -13.00 | -59.34 | peak     |         |
| 2   | *   | 2486.520 | -55.33        | -16.06         | -71.39      | -13.00 | -58.39 | peak     |         |

Test Mode: LTE Band 26\_TX CH26865\_5M



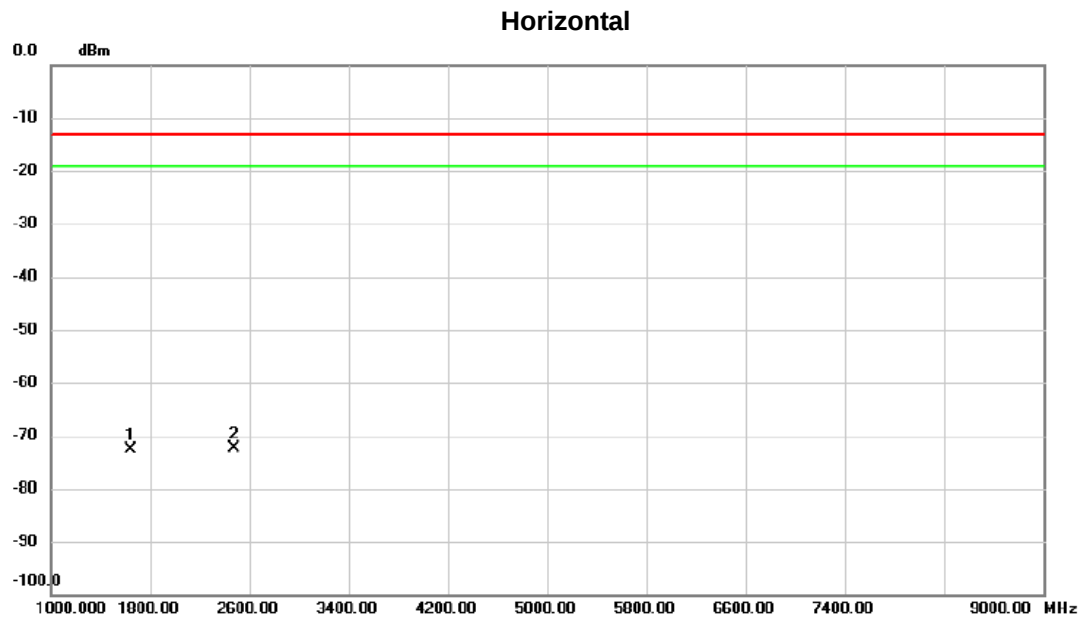
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 1657.680 | -54.73        | -18.79         | -73.52      | -13.00 | -60.52 | peak     |         |
| 2   | *   | 2486.520 | -55.46        | -16.06         | -71.52      | -13.00 | -58.52 | peak     |         |

Test Mode: LTE Band 26\_TX CH26865\_15M



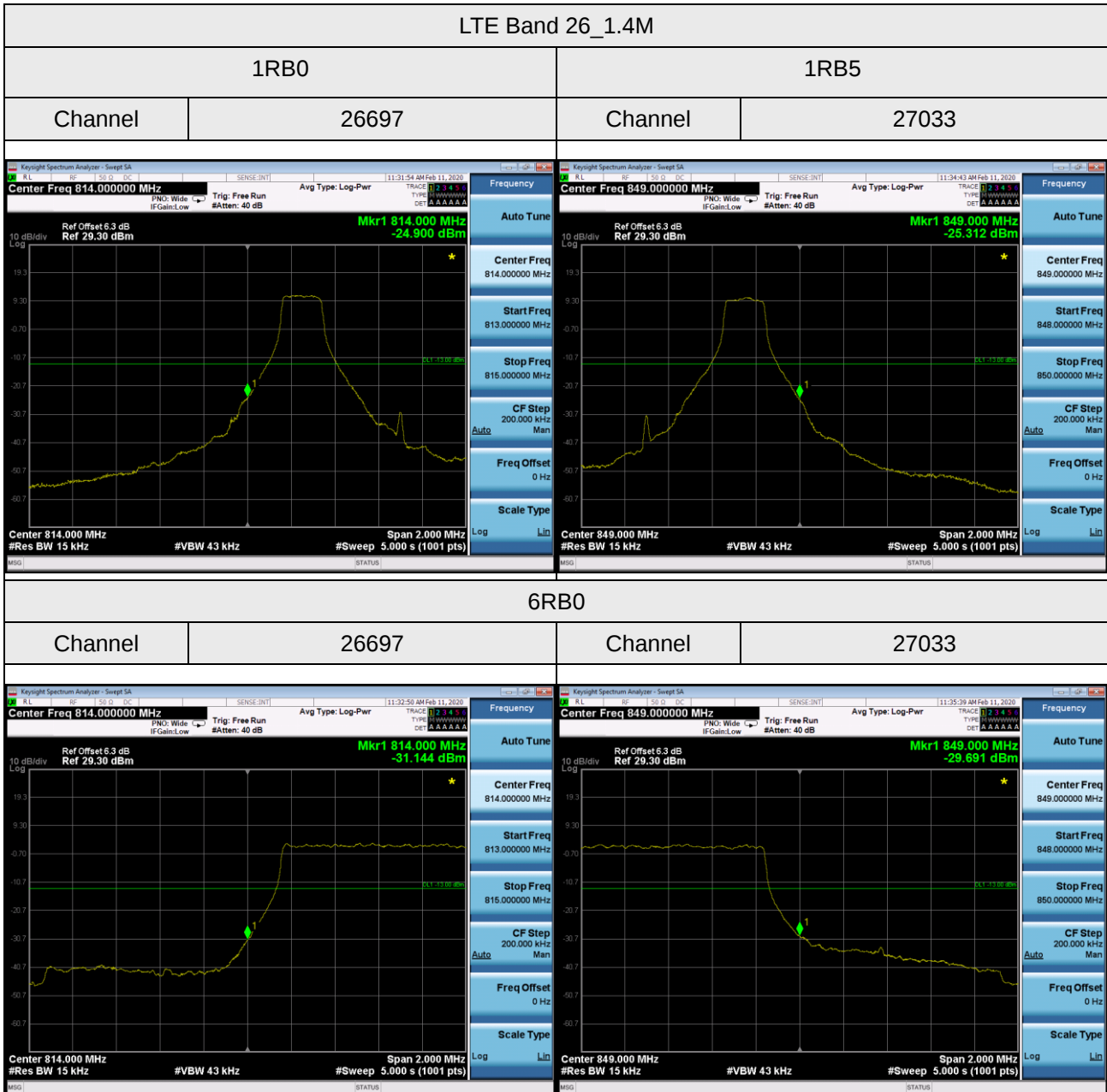
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 1648.680     | -53.86                  | -18.83                  | -72.69                  | -13.00       | -59.69       | peak     |         |
| 2   | *   | 2473.020     | -56.40                  | -16.09                  | -72.49                  | -13.00       | -59.49       | peak     |         |

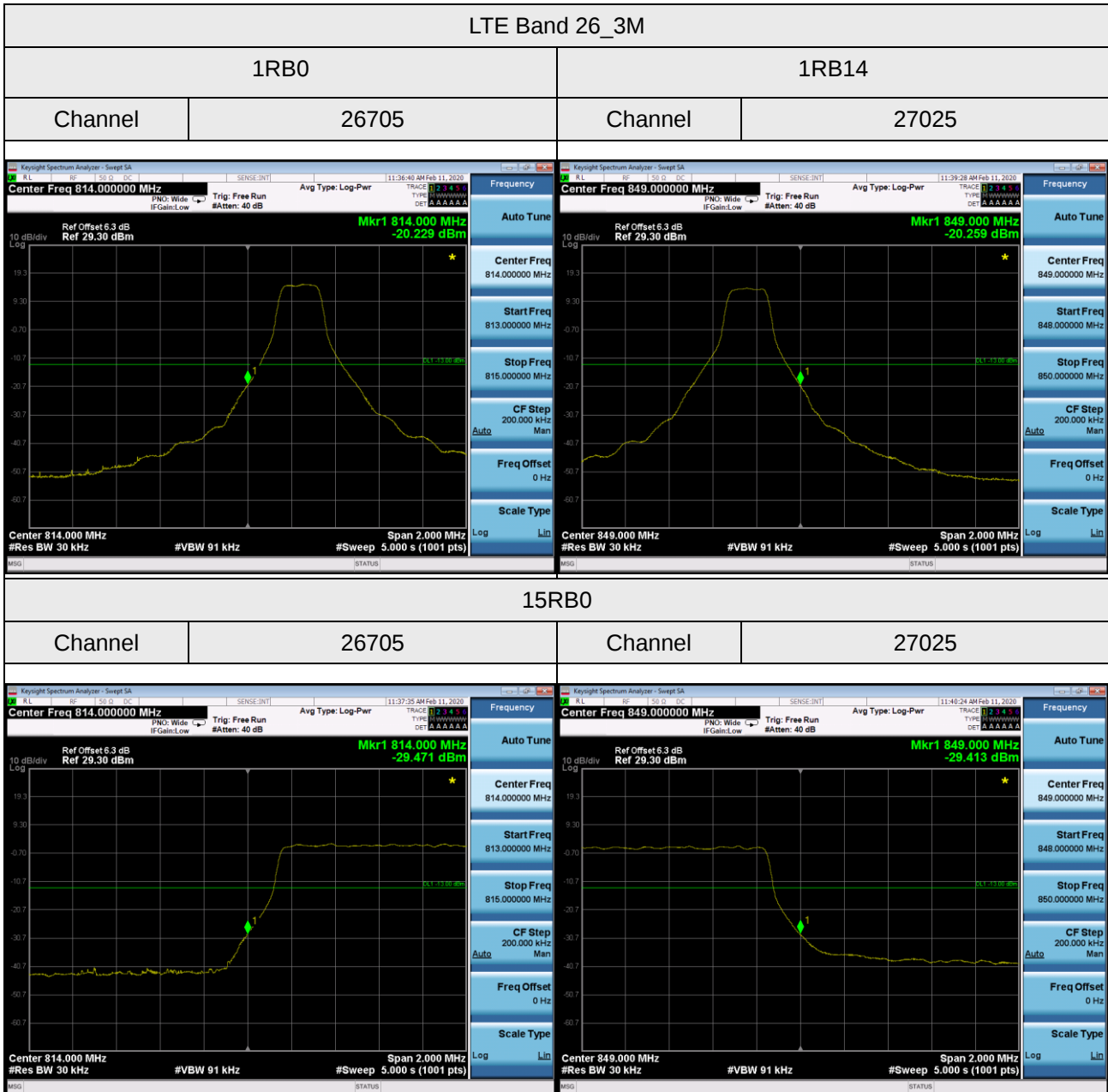
Test Mode: LTE Band 26\_TX CH26865\_15M

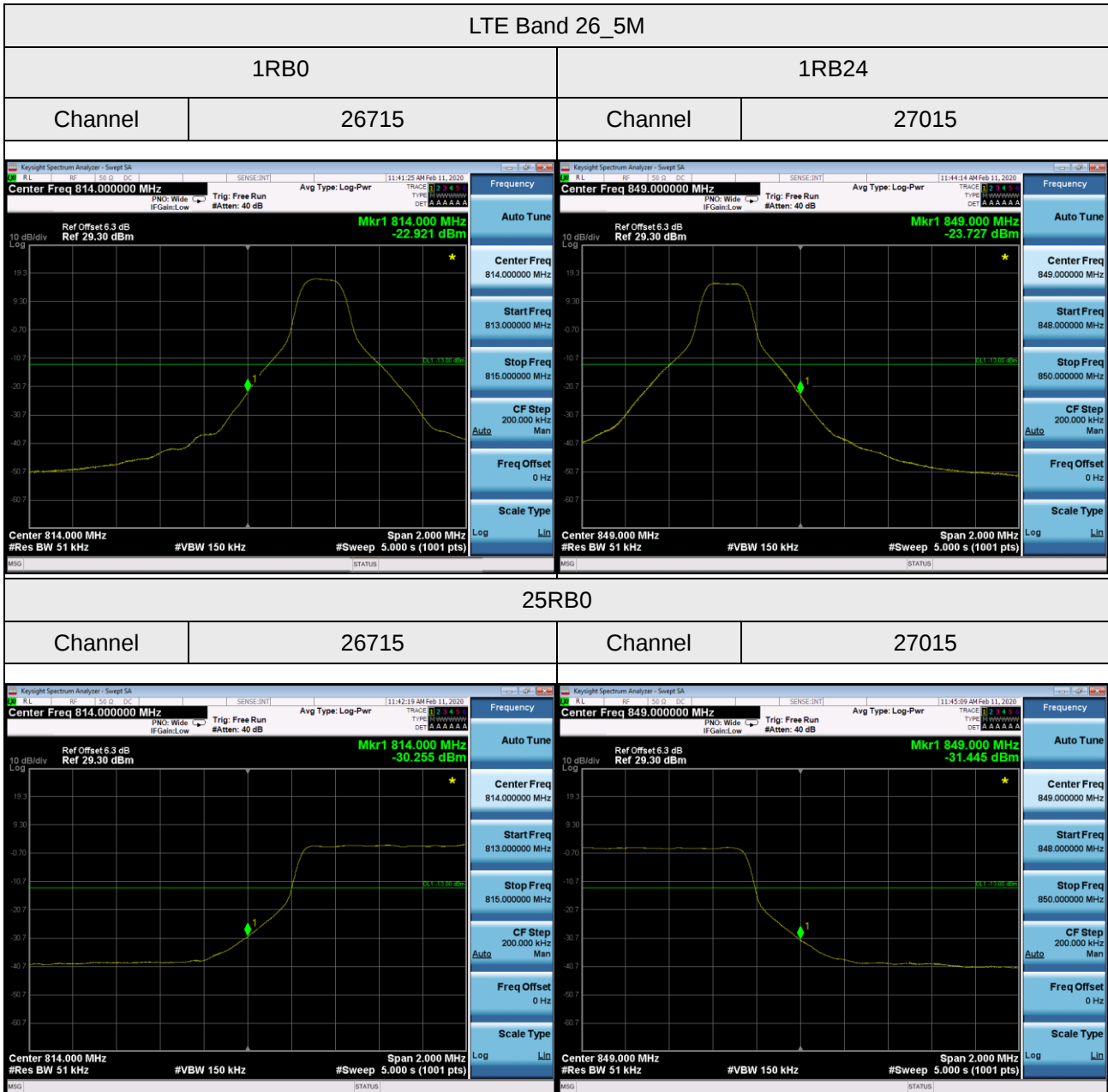


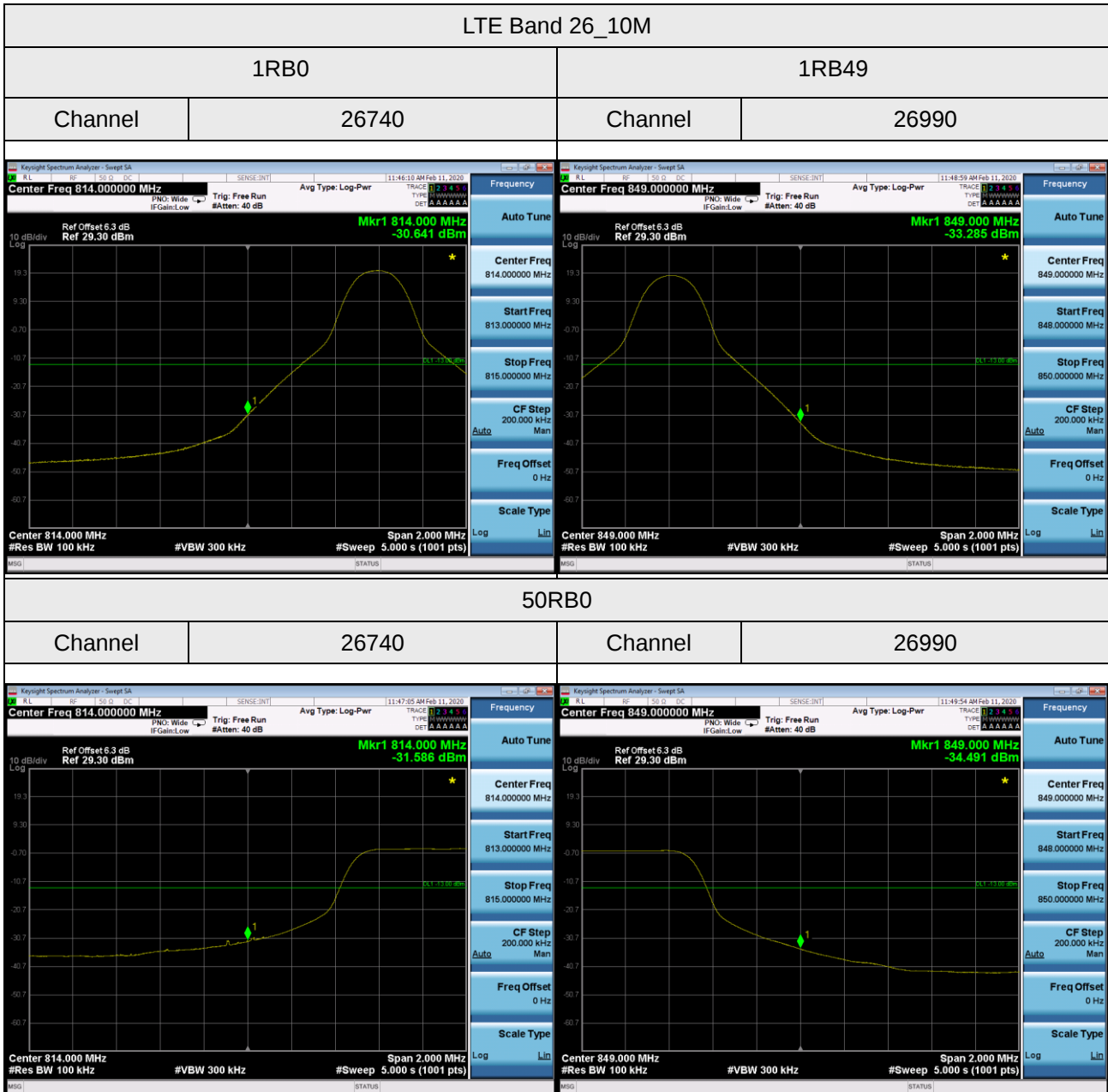
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 1648.680 | -53.81        | -18.83         | -72.64      | -13.00 | -59.64 | peak     |         |
| 2   | *   | 2473.020 | -56.18        | -16.09         | -72.27      | -13.00 | -59.27 | peak     |         |

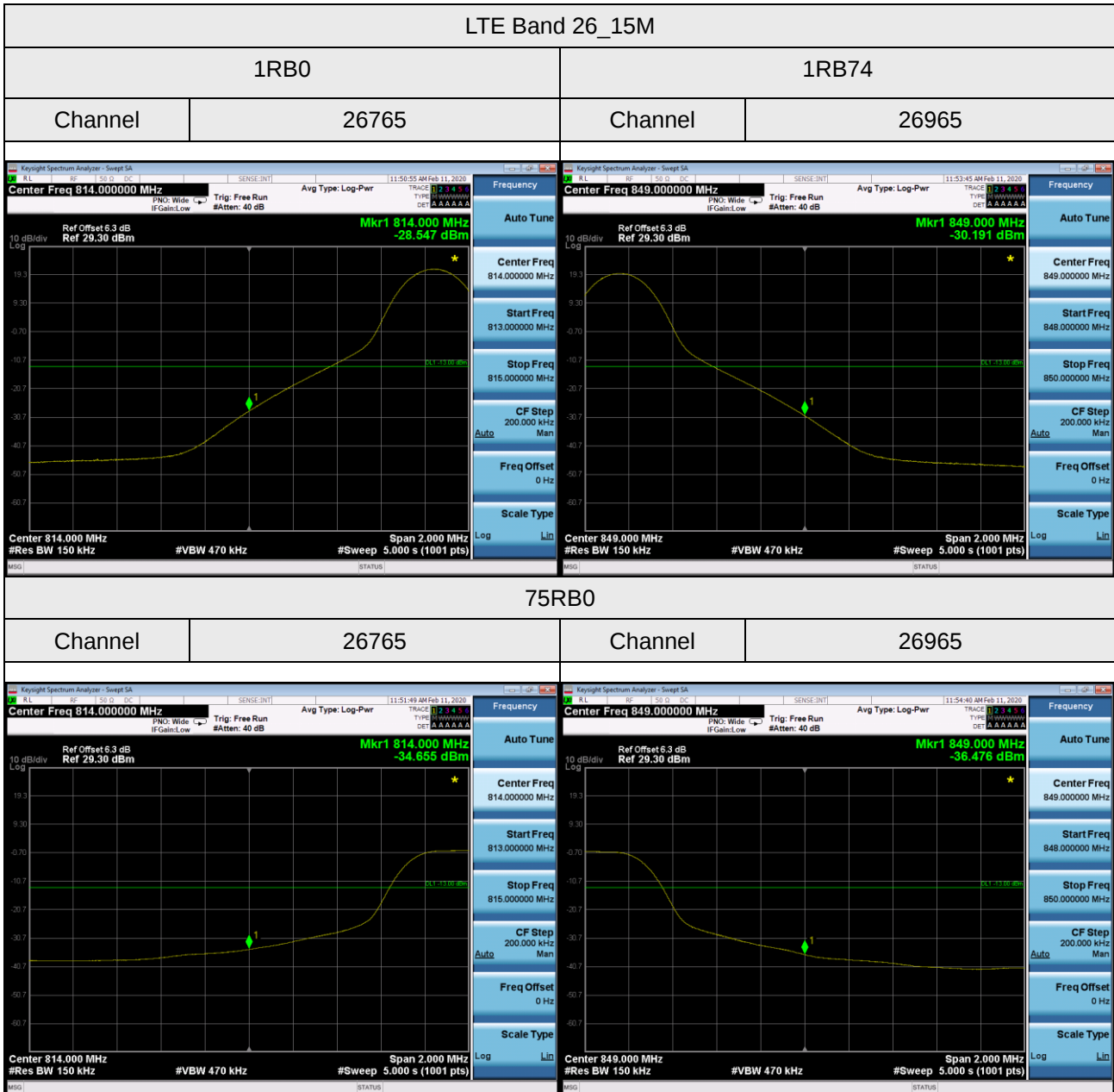
## APPENDIX F - BAND EDGE MEASUREMENTS











## APPENDIX G - FREQUENCY STABILITY

Test Mode: LTE Band 26\_CH26865\_1.4M

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30                  | -1.11                | -0.001334937          | ±2.5       |
| -20                  | -4.77                | -0.005733485          |            |
| -10                  | 0.66                 | 0.000792457           |            |
| 0                    | 2.98                 | 0.003584482           |            |
| 10                   | -4.64                | -0.005583822          |            |
| 20                   | 2.90                 | 0.003484645           |            |
| 30                   | -2.80                | -0.003372438          |            |
| 40                   | -5.67                | -0.006813261          |            |
| 50                   | 0.58                 | 0.000694301           |            |
| Max. Deviation (ppm) | -5.67                | -0.006813261          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.55                 | -0.26                | -0.000315660          | ±2.5       |
| 3.80                 | -5.90                | -0.007093354          |            |
| 4.40                 | -2.97                | -0.003569696          |            |
| Max. Deviation (ppm) | -5.90                | -0.007093354          |            |

Test Mode: LTE Band 26\_CH26865\_3M

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30                  | 1.37                 | 0.001647625           | ±2.5       |
| -20                  | -0.89                | -0.001067966          |            |
| -10                  | 1.03                 | 0.001233118           |            |
| 0                    | 6.29                 | 0.007569611           |            |
| 10                   | 2.57                 | 0.003091817           |            |
| 20                   | 4.37                 | 0.005260705           |            |
| 30                   | 4.38                 | 0.005266682           |            |
| 40                   | 1.32                 | 0.001592520           |            |
| 50                   | -1.07                | -0.001292555          |            |
| Max. Deviation (ppm) | 6.29                 | 0.007569611           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.55                 | -3.38                | -0.004062634          | ±2.5       |
| 3.80                 | 1.78                 | 0.002138562           |            |
| 4.40                 | 5.95                 | 0.007159406           |            |
| Max. Deviation (ppm) | 5.95                 | 0.007159406           |            |

|            |                        |
|------------|------------------------|
| Test Mode: | LTE Band 26_CH26865_5M |
|------------|------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30                  | 3.78                 | 0.004546001           | ±2.5       |
| -20                  | 1.03                 | 0.001234762           |            |
| -10                  | 5.20                 | 0.006248372           |            |
| 0                    | 1.45                 | 0.001742196           |            |
| 10                   | 1.14                 | 0.001375528           |            |
| 20                   | 3.63                 | 0.004360012           |            |
| 30                   | 4.81                 | 0.005788516           |            |
| 40                   | 2.77                 | 0.003329128           |            |
| 50                   | -0.57                | -0.000680256          |            |
| Max. Deviation (ppm) | 5.20                 | 0.006248372           |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.55                 | 1.04                 | 0.001245411           | ±2.5       |
| 3.80                 | -0.29                | -0.000354287          |            |
| 4.40                 | 6.94                 | 0.008342126           |            |
| Max. Deviation (ppm) | 6.94                 | 0.008342126           |            |

|            |                         |
|------------|-------------------------|
| Test Mode: | LTE Band 26_CH26865_10M |
|------------|-------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30                  | -3.56                | -0.004281419          | ±2.5       |
| -20                  | 1.33                 | 0.001601841           |            |
| -10                  | -5.28                | -0.006354587          |            |
| 0                    | 0.96                 | 0.001149570           |            |
| 10                   | -8.16                | -0.009816290          |            |
| 20                   | -3.72                | -0.004468032          |            |
| 30                   | -5.13                | -0.006169455          |            |
| 40                   | -8.22                | -0.009884118          |            |
| 50                   | 0.10                 | 0.000125550           |            |
| Max. Deviation (ppm) | -8.22                | -0.009884118          |            |

### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.55                 | -6.06                | -0.007288751          | ±2.5       |
| 3.80                 | -8.34                | -0.010035803          |            |
| 4.40                 | -0.52                | -0.000629516          |            |
| Max. Deviation (ppm) | -8.34                | -0.010035803          |            |

|            |                         |
|------------|-------------------------|
| Test Mode: | LTE Band 26_CH26865_15M |
|------------|-------------------------|

### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30                  | -6.27                | -0.007540589          | ±2.5       |
| -20                  | -6.62                | -0.007965456          |            |
| -10                  | -1.47                | -0.001763831          |            |
| 0                    | -9.38                | -0.011279296          |            |
| 10                   | -5.28                | -0.006349012          |            |
| 20                   | -6.20                | -0.007453747          |            |
| 30                   | -9.78                | -0.011765400          |            |
| 40                   | -6.95                | -0.008360747          |            |
| 50                   | -5.16                | -0.006209056          |            |
| Max. Deviation (ppm) | -9.78                | -0.0117654            |            |

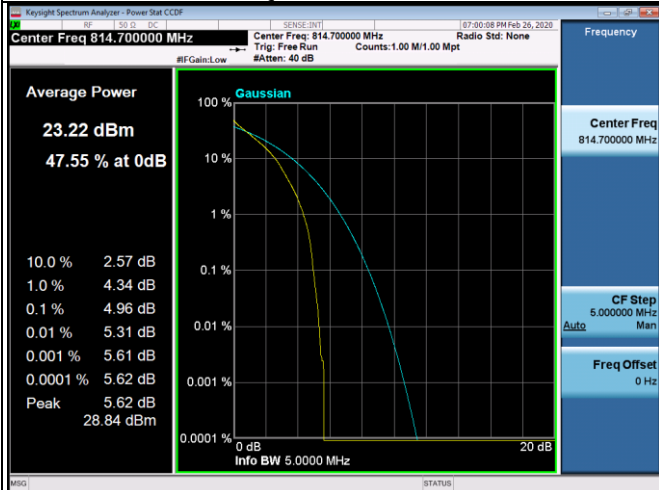
### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.55                 | -2.13                | -0.002563029          | ±2.5       |
| 3.80                 | -8.61                | -0.010359323          |            |
| 4.40                 | -6.87                | -0.008258388          |            |
| Max. Deviation (ppm) | -8.61                | -0.010359323          |            |

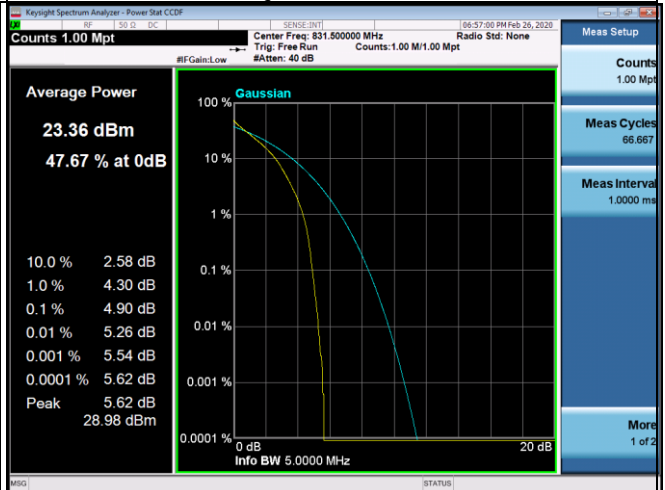
## APPENDIX H - PEAK TO AVERAGE RATIO

## LTE Band 26 Spectrum Plot\_1.4M

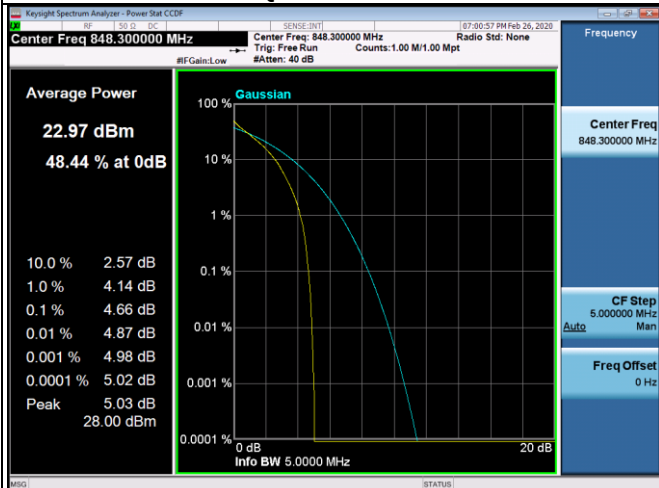
### QPSK-26697



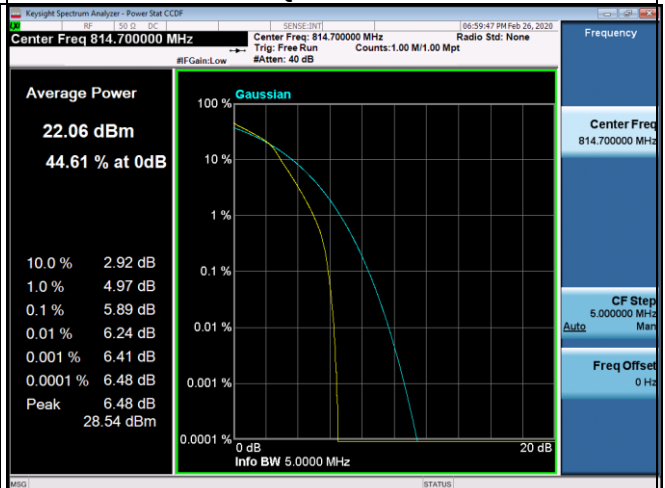
### QPSK-26865



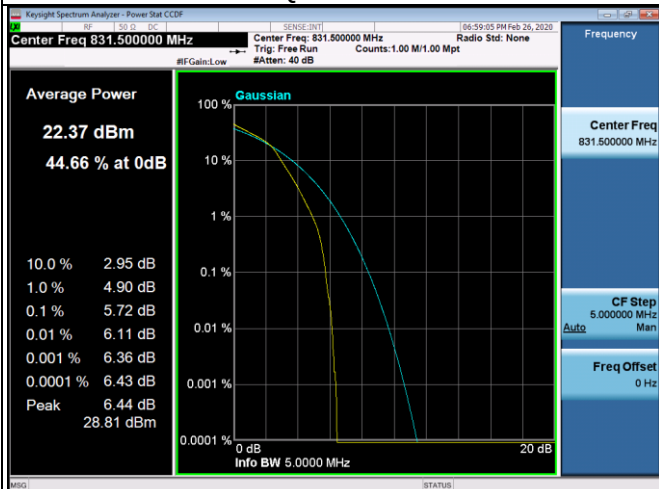
### QPSK-27033



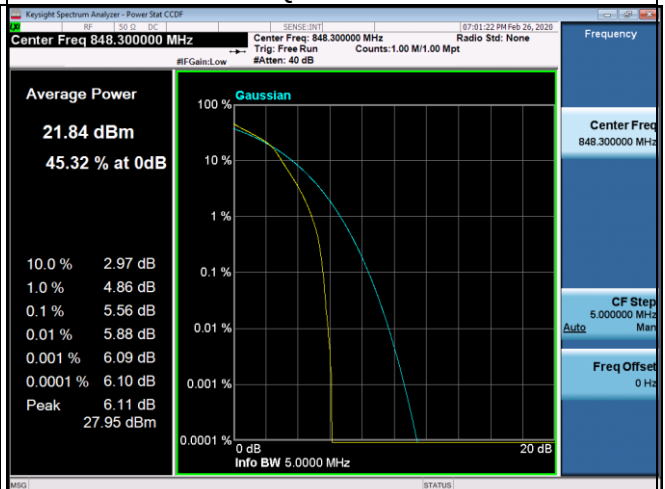
### 16QAM-26697



### 16QAM-26865

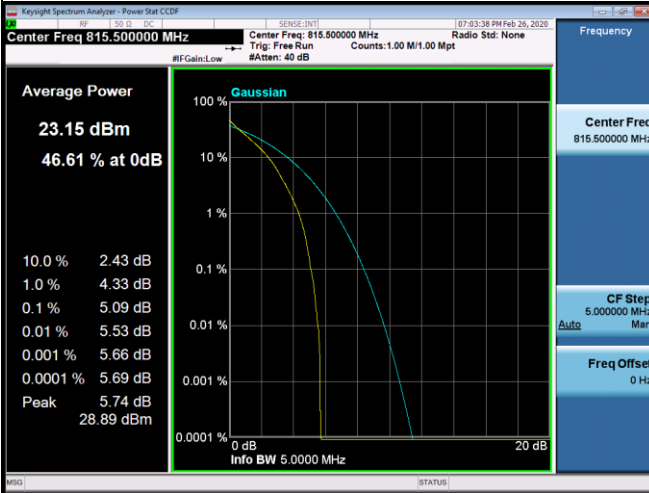


### 16QAM-27033

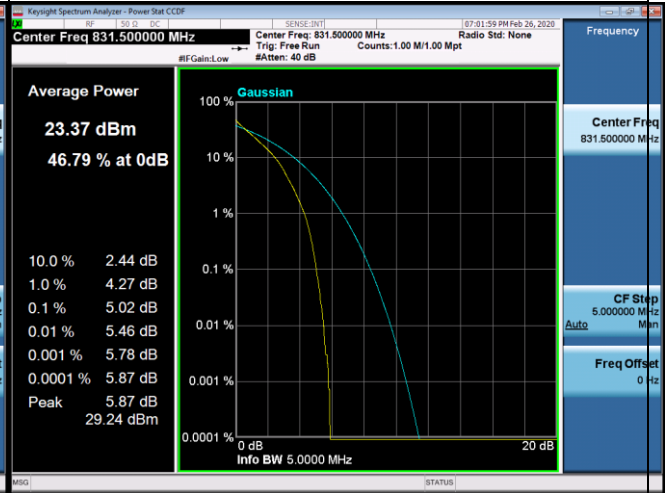


## LTE Band 26 Spectrum Plot\_3M

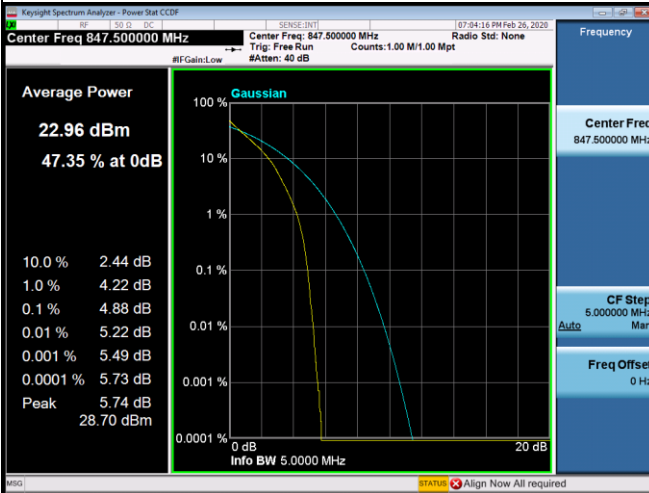
### QPSK-26705



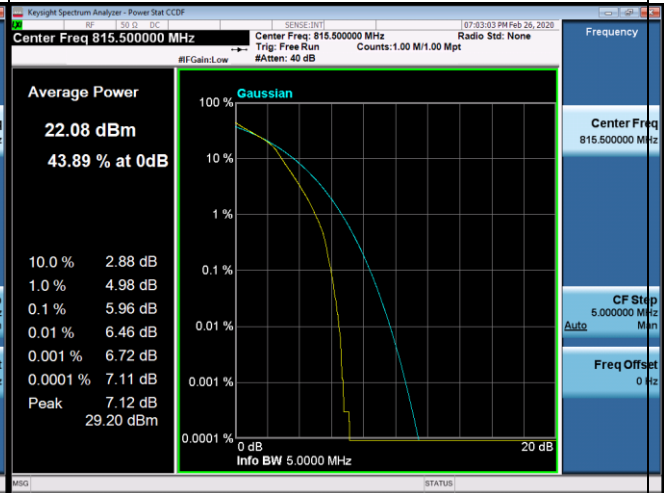
### QPSK-26865



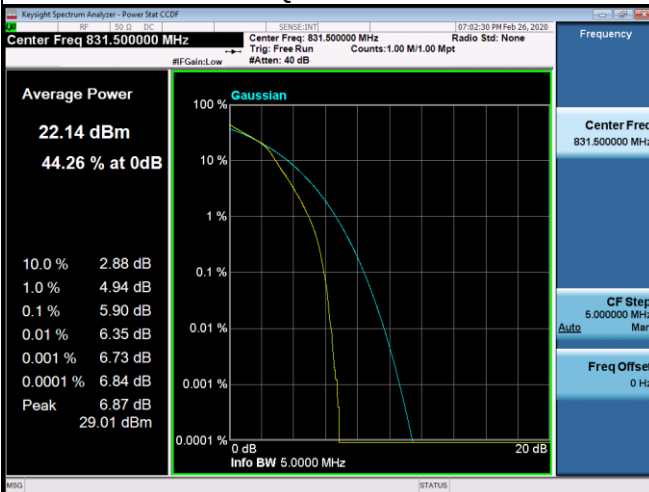
### QPSK-27025



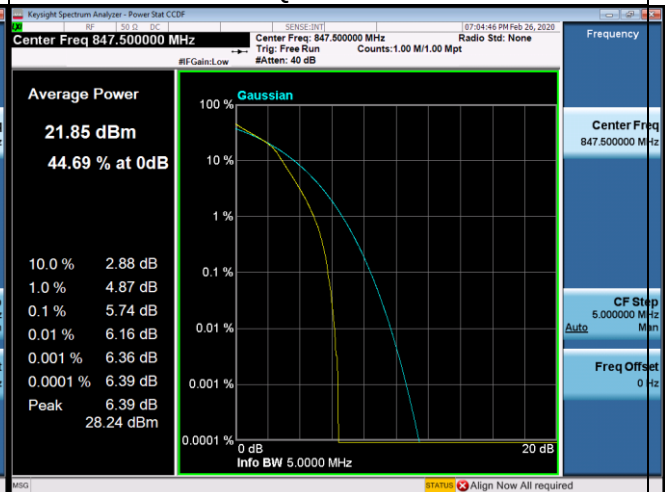
### 16QAM-26705



### 16QAM-26865

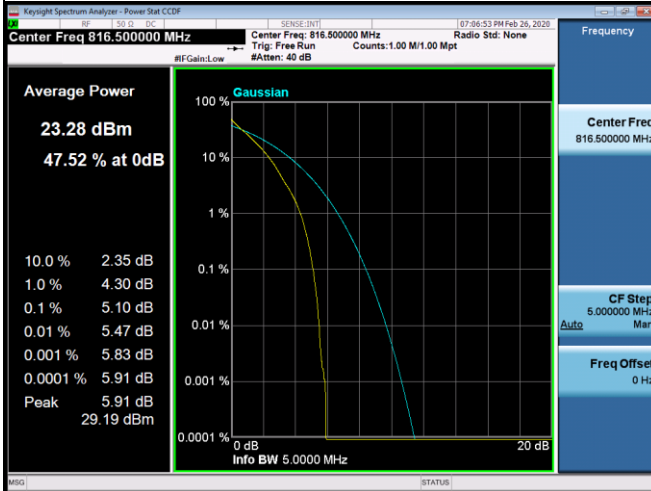


### 16QAM-27025

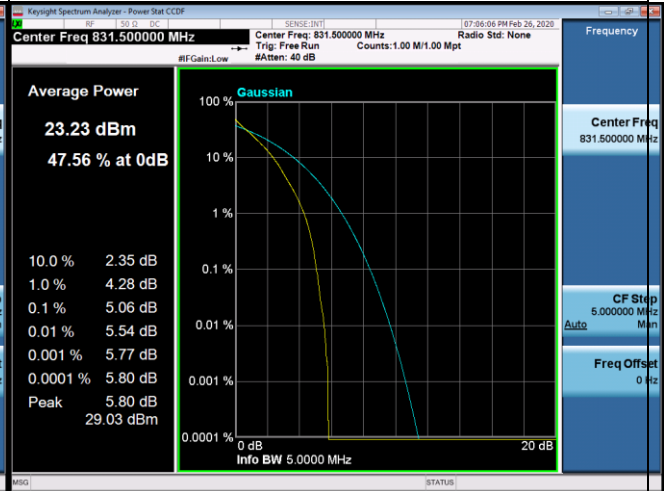


## LTE Band 26 Spectrum Plot\_5M

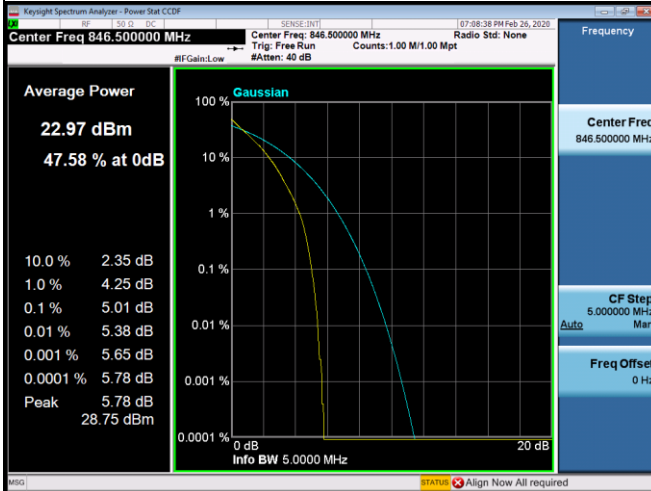
### QPSK-26715



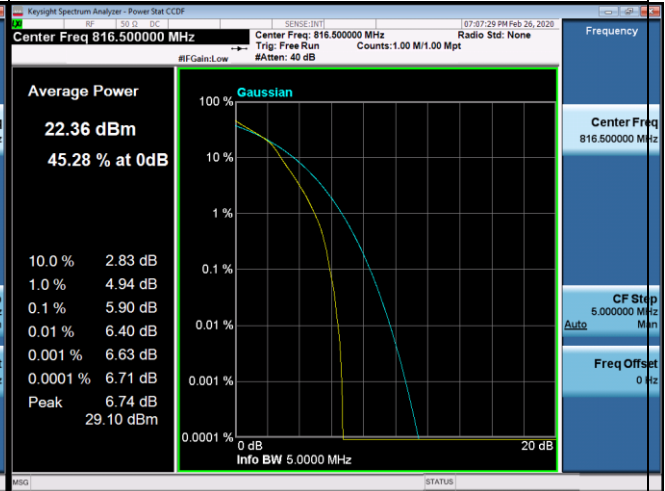
### QPSK-26865



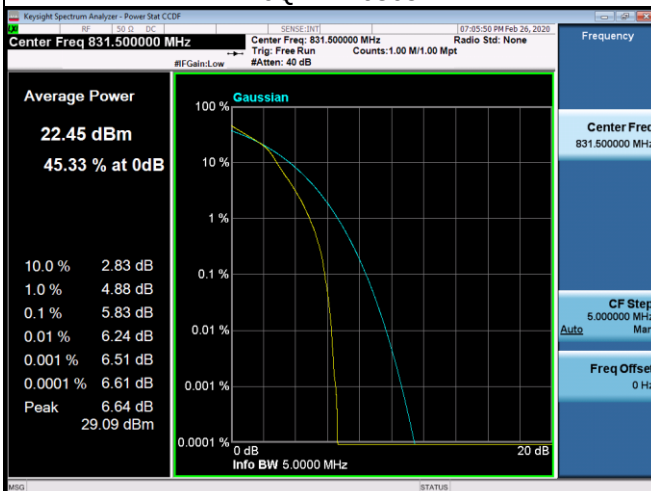
### QPSK-27015



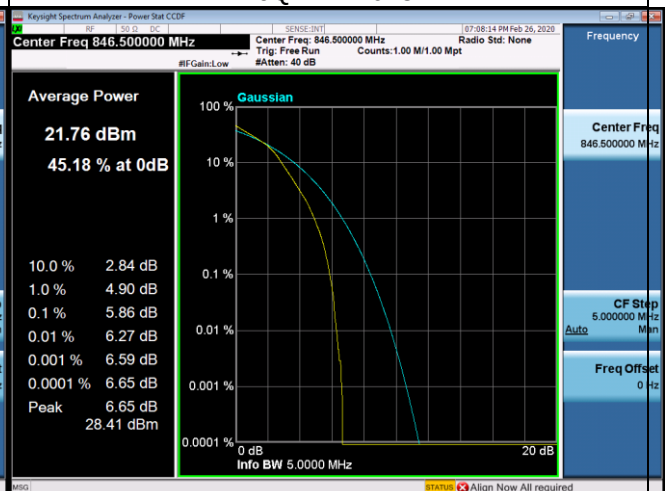
### 16QAM-26715



### 16QAM-26865

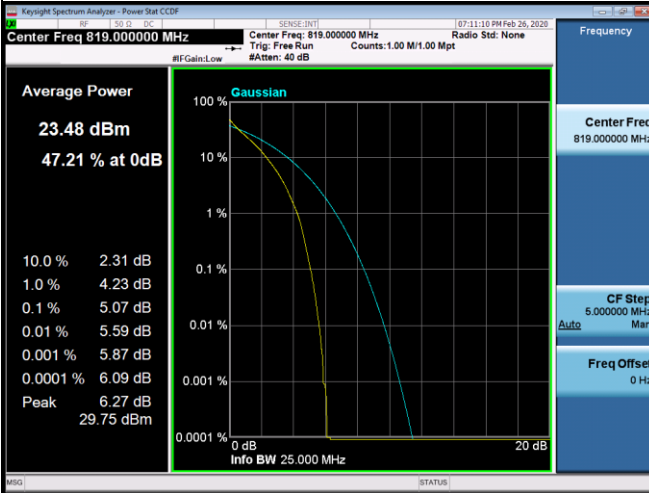


### 16QAM-27015

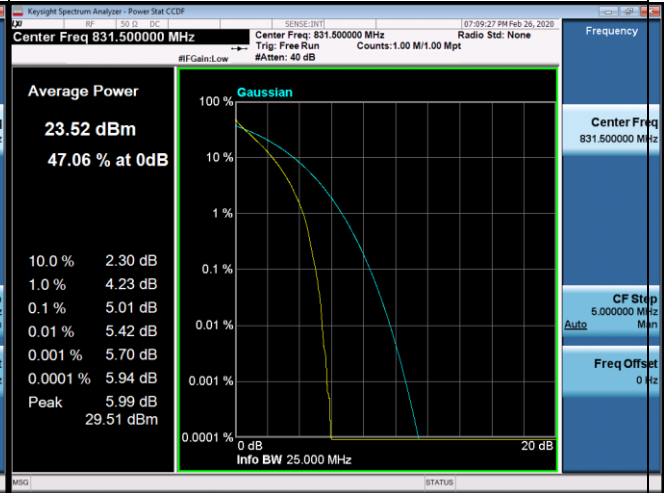


## LTE Band 26 Spectrum Plot\_10M

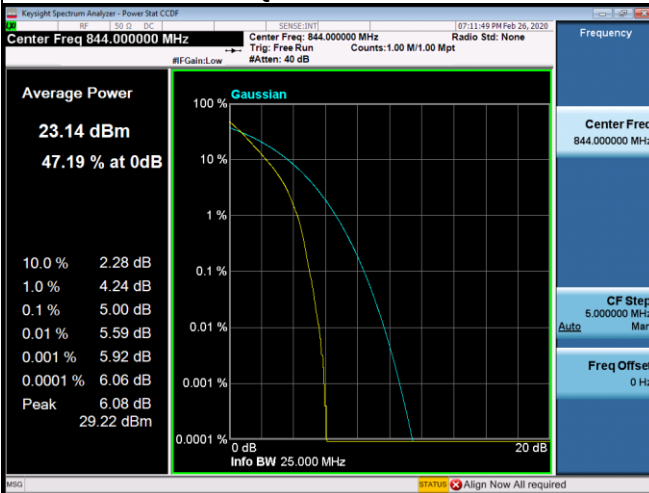
### QPSK-26740



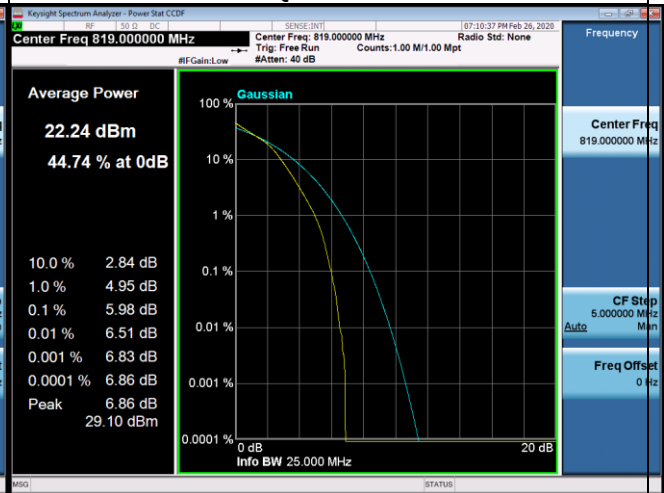
### QPSK-26865



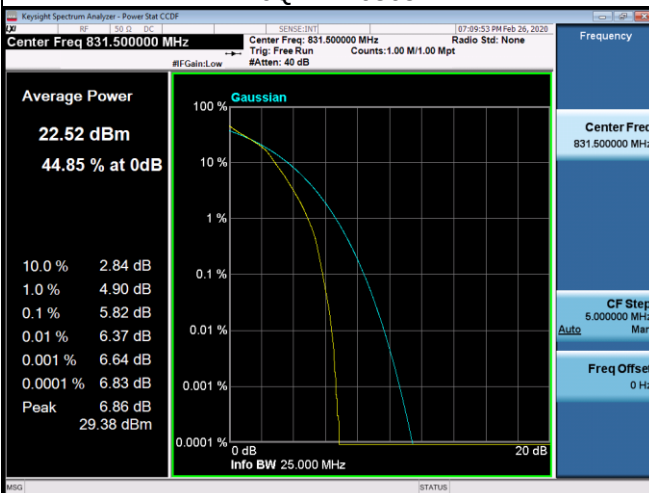
### QPSK-26990



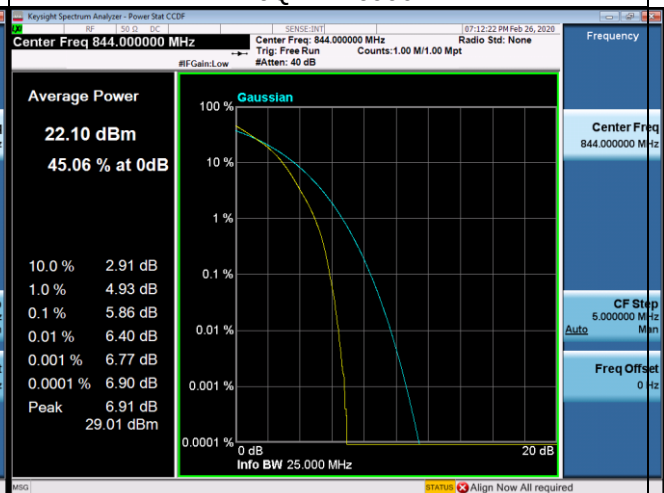
### 16QAM-26740



### 16QAM-26865

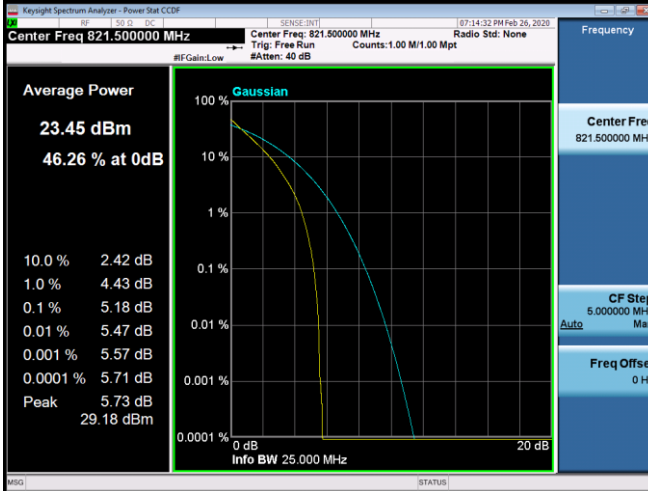


### 16QAM-26990

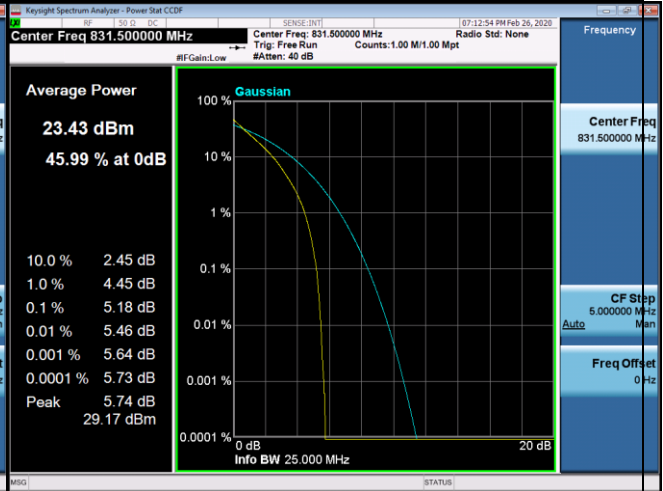


## LTE Band 26 Spectrum Plot\_15M

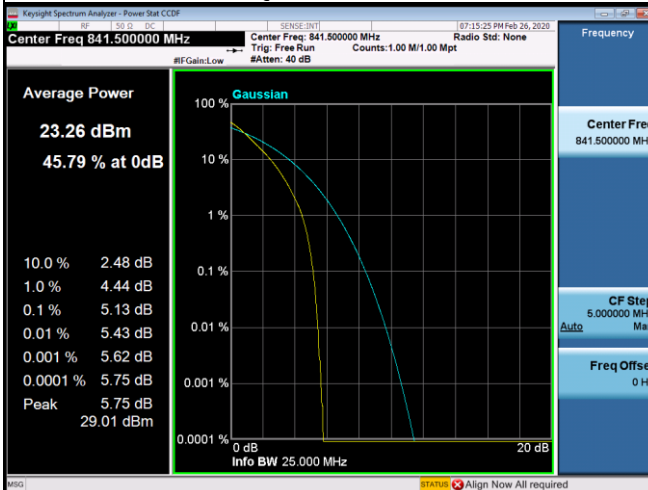
### QPSK-26765



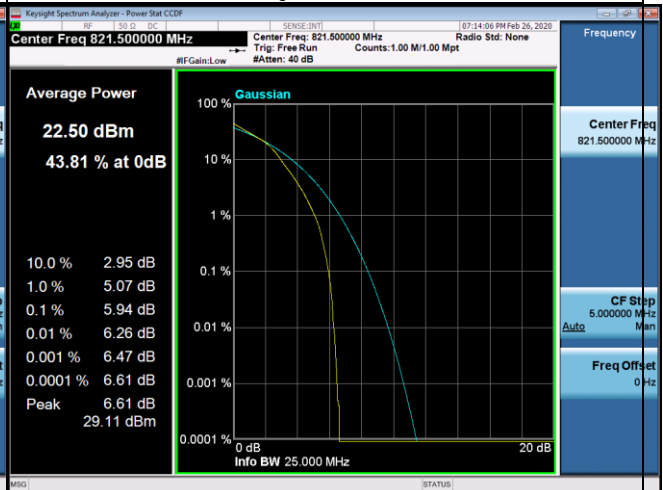
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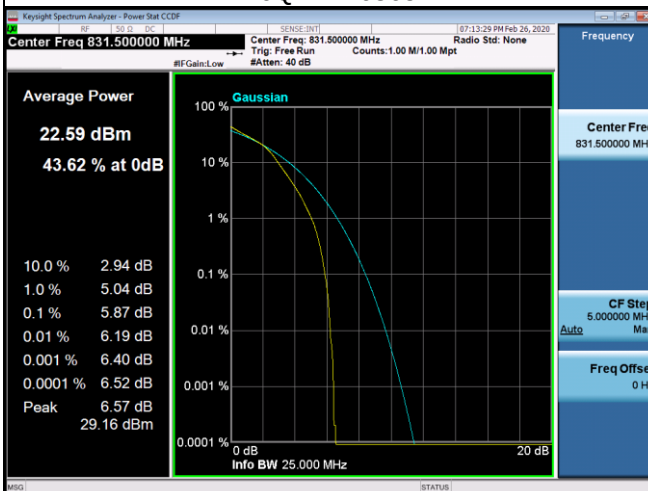
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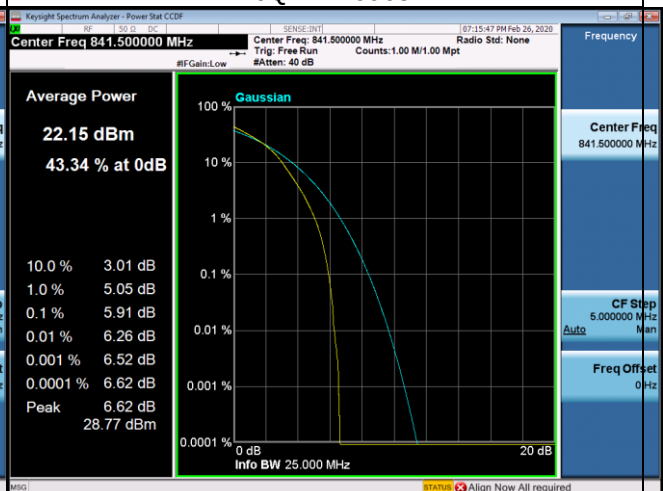
### 16QAM-26765



### 16QAM-26865



### 16QAM-26965



End of Test Report.