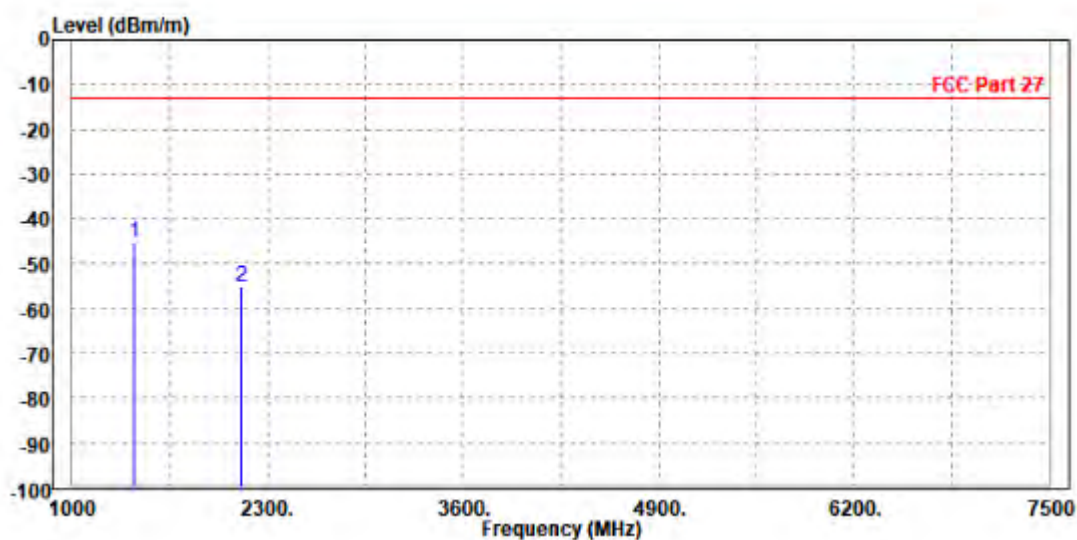


|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

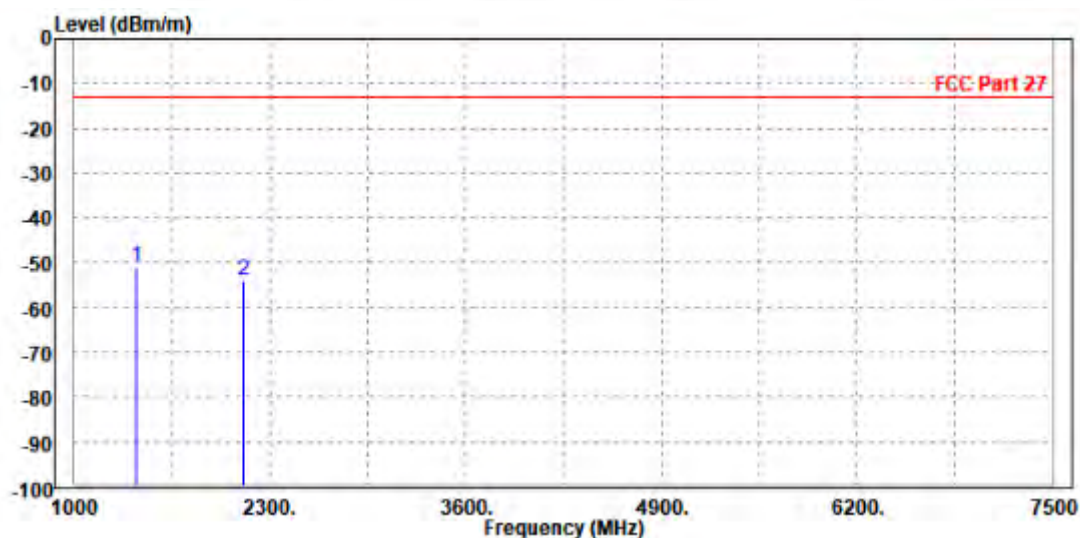
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 1416.000 | -45.28 | -48.21     | -13.00     | -32.28     | 2.93   | Peak   | Vertical  |
| 2    | 2121.000 | -55.26 | -59.69     | -13.00     | -42.26     | 4.43   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz / QPSK**

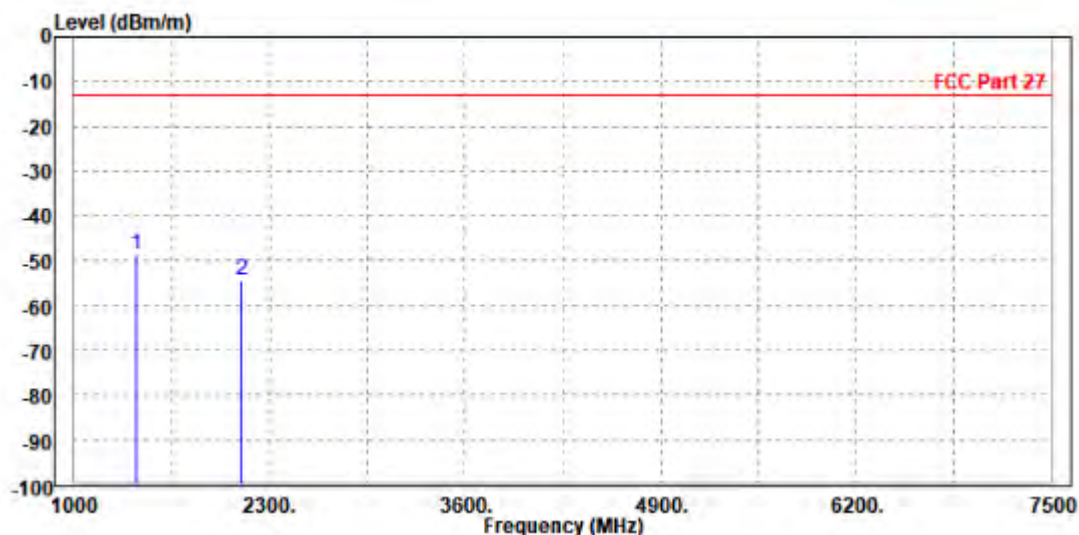
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 1416.000 | -50.84 | -53.78     | -13.00     | -37.84     | 2.94   | Peak   | Horizontal |
| 2 |    | 2121.000 | -53.95 | -59.03     | -13.00     | -40.95     | 5.08   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 1414.000 | -48.48 | -51.40     | -13.00     | -35.48     | 2.92   | Peak   | Vertical  |
| 2    | 2118.000 | -54.33 | -58.75     | -13.00     | -41.33     | 4.42   | Peak   | Vertical  |



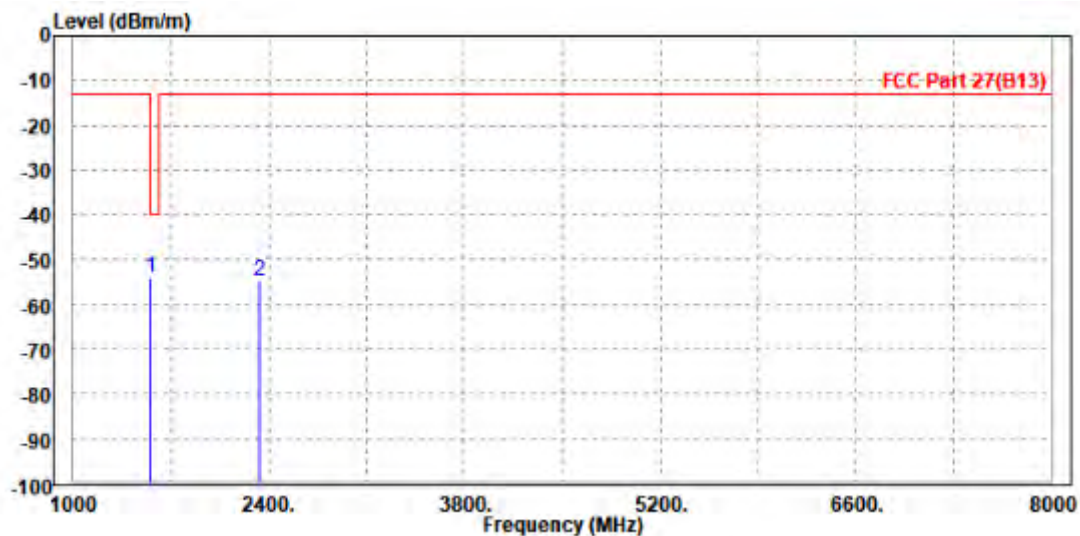
**LTE B13**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH23205**

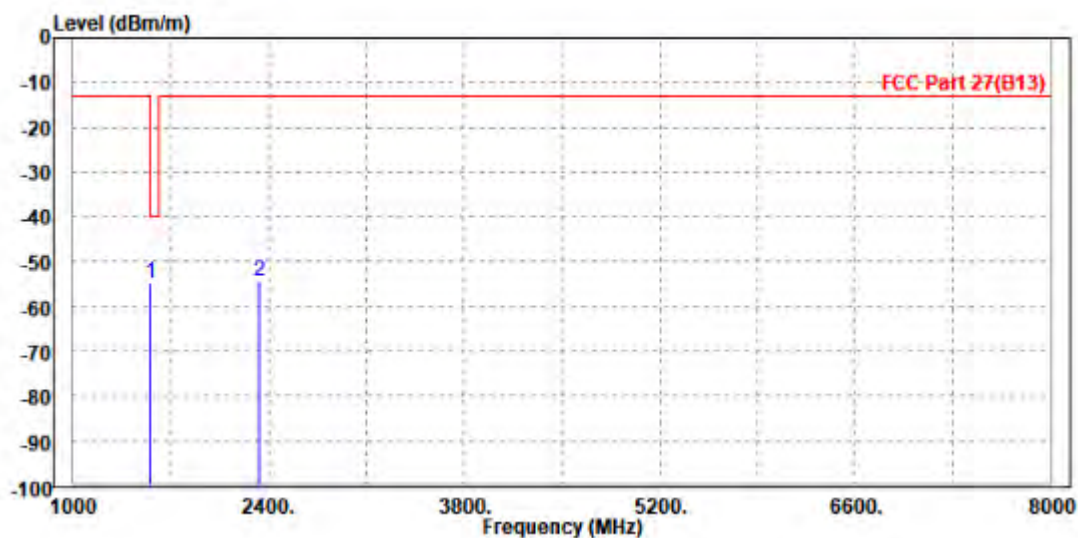
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| CH1205                                              |                  |                 |               |
| MODE                                                | TX channel 23205 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 1560.000 | -54.17 | -57.56     | -40.00     | -14.17     | 3.39   | Peak   | Horizontal |
| 2    | 2337.000 | -54.90 | -60.56     | -13.00     | -41.90     | 5.66   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23205 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP 1559.000 | -54.87 | -58.10     | -40.00     | -14.87     | 3.23   | Peak   | Vertical  |
| 2 | 2337.000    | -54.24 | -59.44     | -13.00     | -41.24     | 5.20   | Peak   | Vertical  |





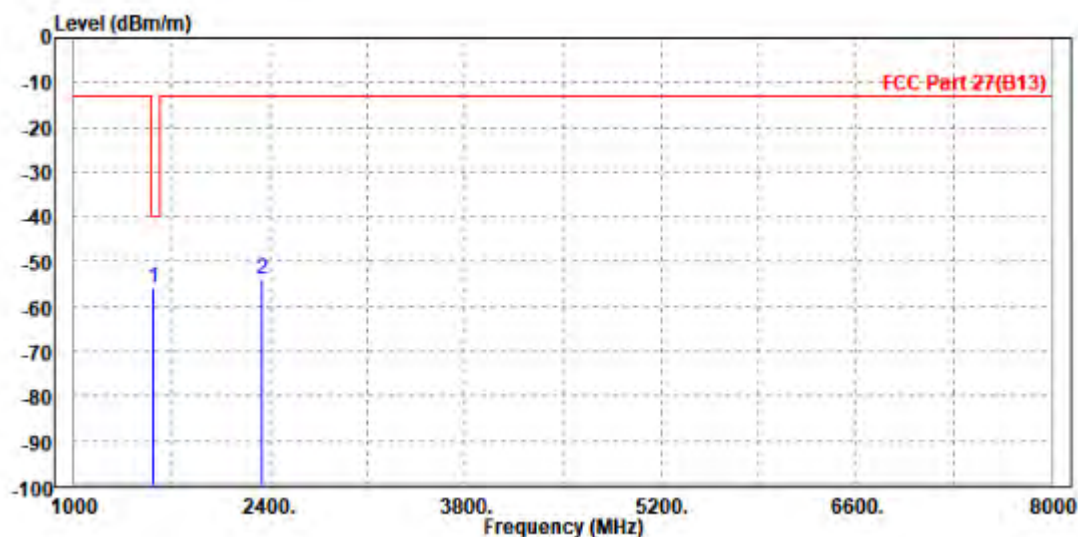
BUREAU  
VERITAS

Test Report No.: W7L-240618W001RF07

CH 23230

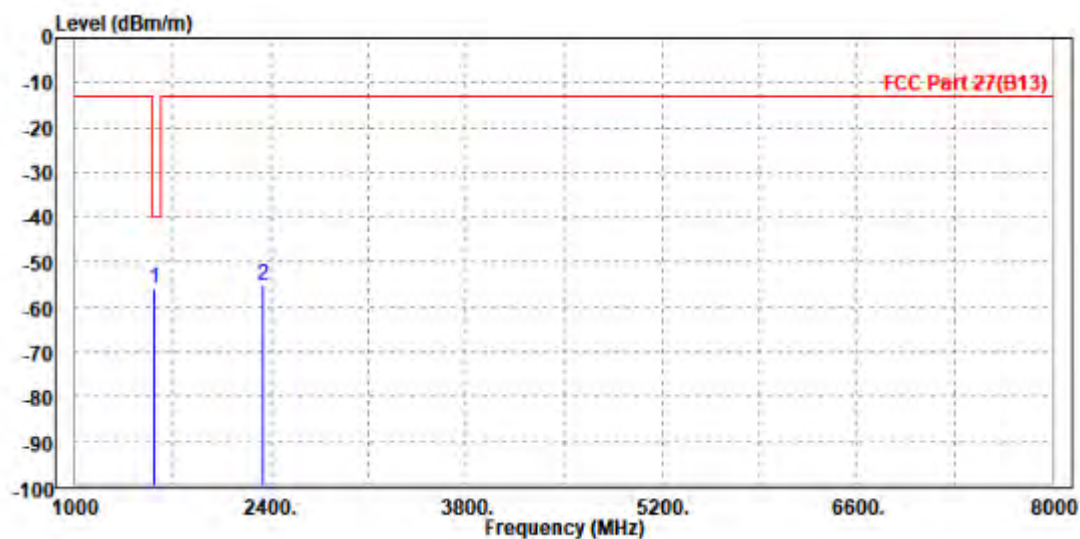
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 1564.000 | -55.79 | -59.19     | -40.00     | -15.79     | 3.40   | Peak   | Horizontal |
| 2 |    | 2344.000 | -53.83 | -59.51     | -13.00     | -40.83     | 5.68   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

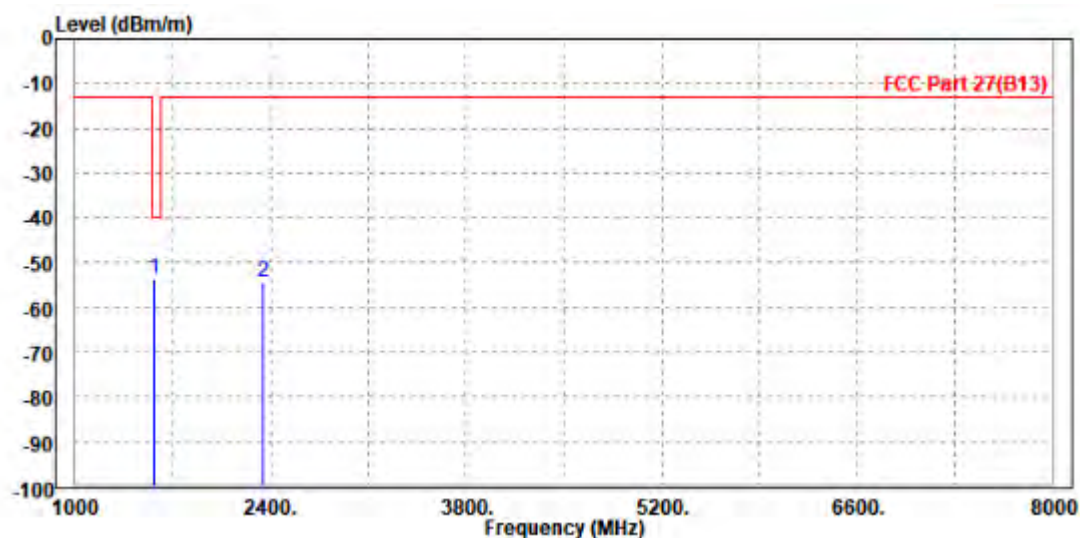
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 1567.000 | -55.77 | -59.02     | -40.00     | -15.77     | 3.25   | Peak   | Vertical  |
| 2    | 2346.000 | -55.20 | -60.43     | -13.00     | -42.20     | 5.23   | Peak   | Vertical  |



CH 23255

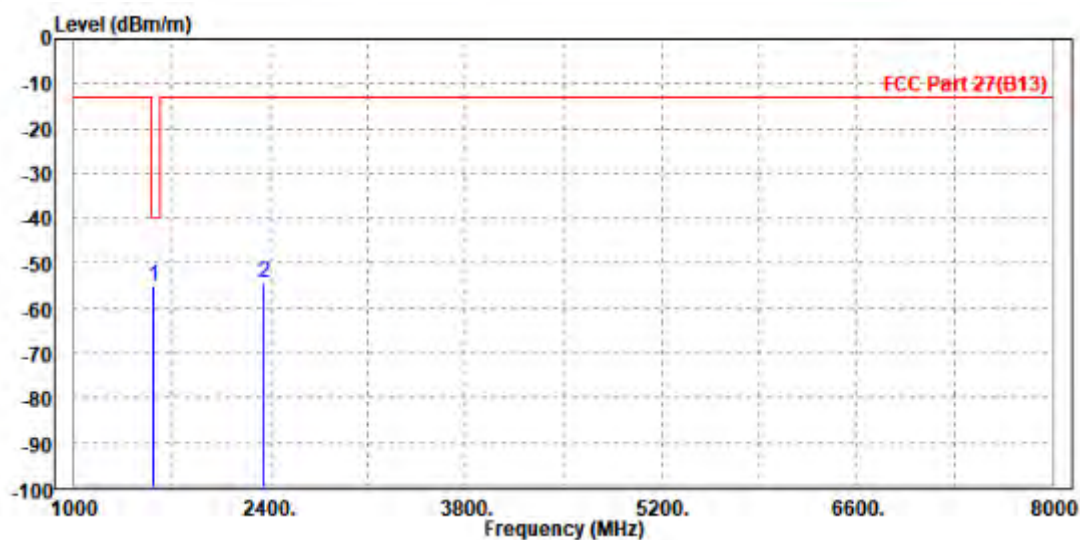
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 PP | 1569.000 | -53.58 | -56.99     | -40.00     | -13.58     | 3.41   | Peak   | Horizontal |
| 2    | 2351.000 | -54.20 | -59.90     | -13.00     | -41.20     | 5.70   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

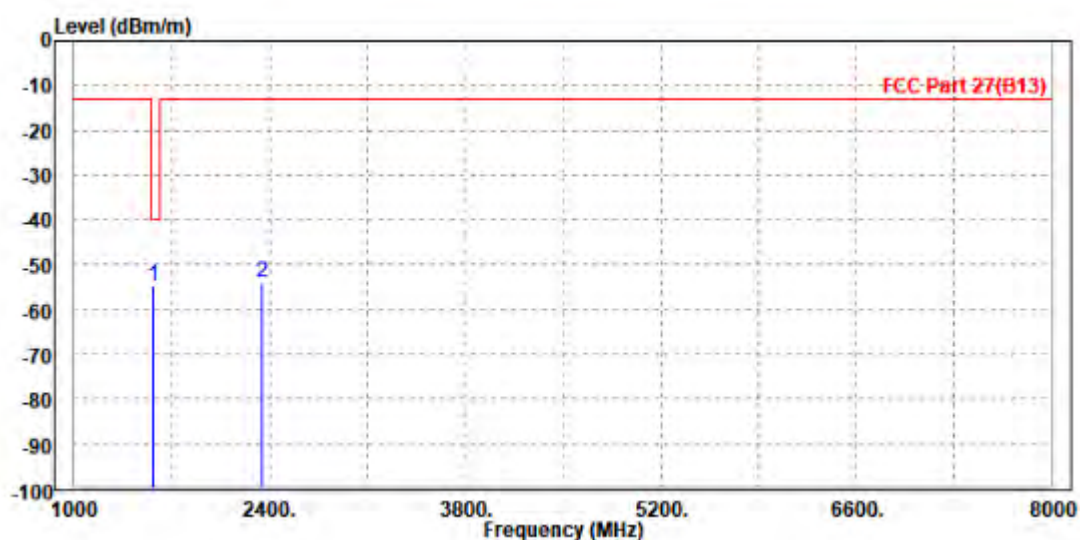
|   | Freq        | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
|   | MHz         | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP 1567.000 | -55.18 | -58.43     | -40.00     | -15.18     | 3.25   | Peak   | Vertical  |
| 2 | 2353.500    | -54.48 | -59.74     | -13.00     | -41.48     | 5.26   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz /QPSK**

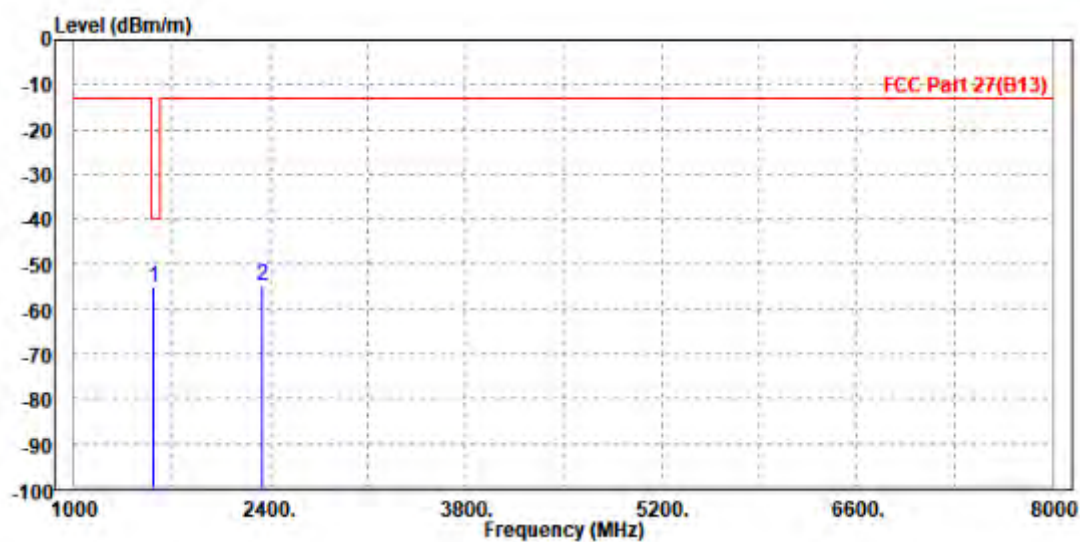
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase  |
|---|----|----------|--------|------------|------------|------------|--------|--------|------------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |            |
| 1 | PP | 1564.000 | -54.68 | -58.08     | -40.00     | -14.68     | 3.40   | Peak   | Horizontal |
| 2 |    | 2344.000 | -53.97 | -59.65     | -13.00     | -40.97     | 5.68   | Peak   | Horizontal |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu          |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 1567.000 | -55.02 | -58.27     | -40.00     | -15.02     | 3.25   | Peak   | Vertical  |
| 2    | 2346.000 | -54.80 | -60.03     | -13.00     | -41.80     | 5.23   | Peak   | Vertical  |





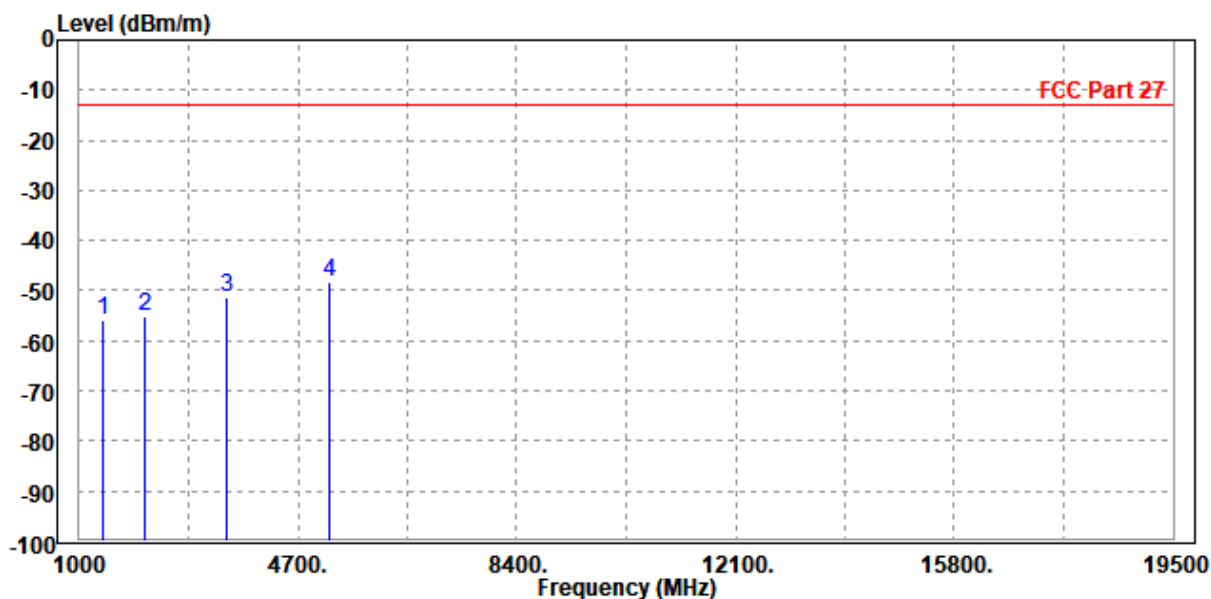
Test Report No.: W7L-240618W001RF07

CA\_12A-66A:

CHANNEL BANDWIDTH: 10MHz+20MHz / QPSK

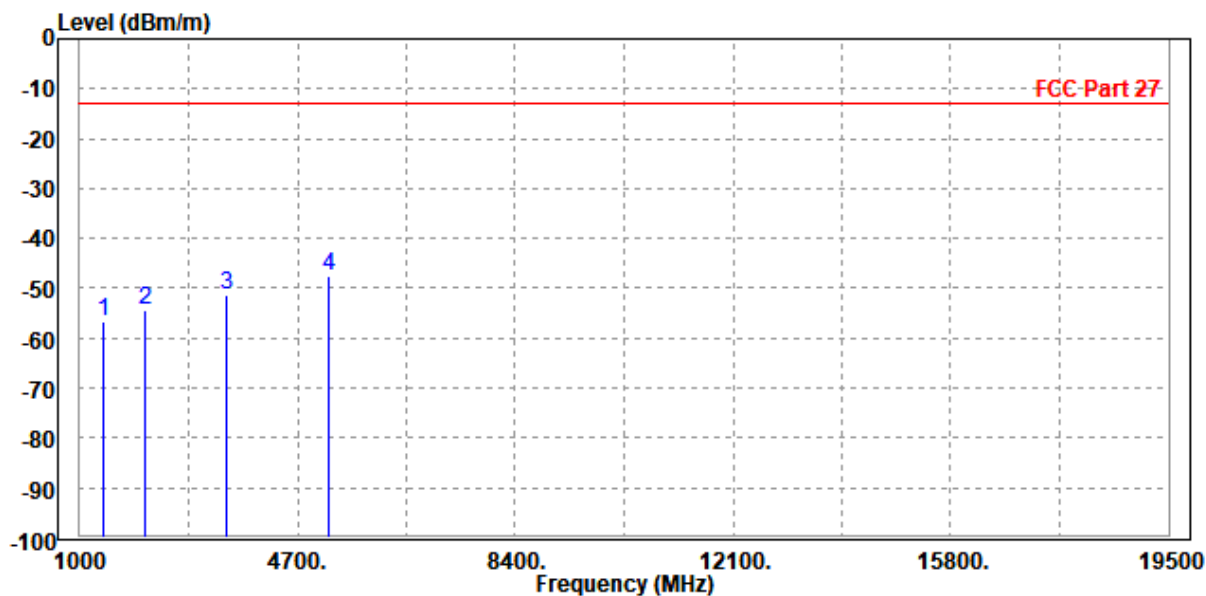
|                                                     |                             |                 |               |
|-----------------------------------------------------|-----------------------------|-----------------|---------------|
| MODE                                                | TX channel 23095/<br>132322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                         | 23deg. C, 70%RH             | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Jace Hu                     |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                             |                 |               |

|      | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase  |
|------|----------|--------|---------------|---------------|---------------|--------|--------|------------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |            |
| 1    | 1407.000 | -55.96 | -58.87        | -13.00        | -42.96        | 2.91   | Peak   | Horizontal |
| 2    | 2121.000 | -54.97 | -60.05        | -13.00        | -41.97        | 5.08   | Peak   | Horizontal |
| 3    | 3490.000 | -51.34 | -59.89        | -13.00        | -38.34        | 8.55   | Peak   | Horizontal |
| 4 PP | 5235.000 | -48.36 | -59.77        | -13.00        | -35.36        | 11.41  | Peak   | Horizontal |



|                                                   |                             |                 |               |
|---------------------------------------------------|-----------------------------|-----------------|---------------|
| MODE                                              | TX channel 23095/<br>132322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL<br>CONDITIONS                       | 23deg. C, 70%RH             | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Jace Hu                     |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                             |                 |               |

|      | Freq     | Level  | Read<br>Level | Limit<br>Line | Over<br>Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|---------------|---------------|---------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm           | dBm/m         | dB            | dB/m   |        |           |
| 1    | 1414.000 | -56.63 | -59.55        | -13.00        | -43.63        | 2.92   | Peak   | Vertical  |
| 2    | 2121.000 | -54.34 | -58.77        | -13.00        | -41.34        | 4.43   | Peak   | Vertical  |
| 3    | 3497.500 | -51.42 | -60.06        | -13.00        | -38.42        | 8.64   | Peak   | Vertical  |
| 4 PP | 5235.000 | -47.64 | -59.47        | -13.00        | -34.64        | 11.83  | Peak   | Vertical  |

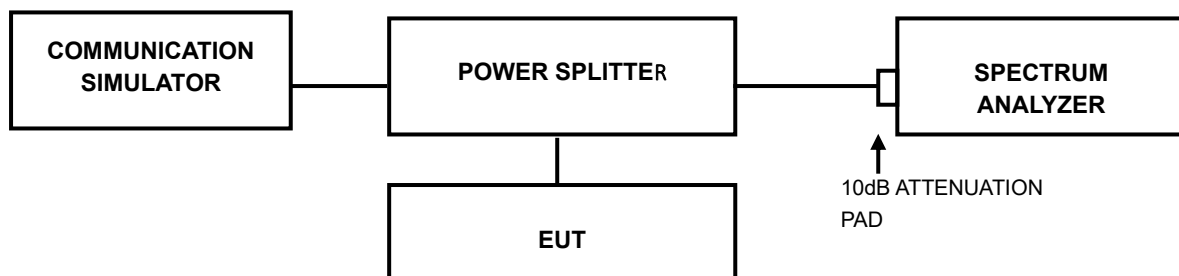


### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



Test Report No.: W7L-240618W001RF07

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: W7L-240618W001RF07

## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Shenzhen EMC/RF Lab:**

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: [customerservice.sw@cn.bureauveritas.com](mailto:customerservice.sw@cn.bureauveritas.com)

Web Site: [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



Test Report No.: W7L-240618W001RF07

## 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



Test Report No.: W7L-240618W001RF07

## 6 APPENDIX

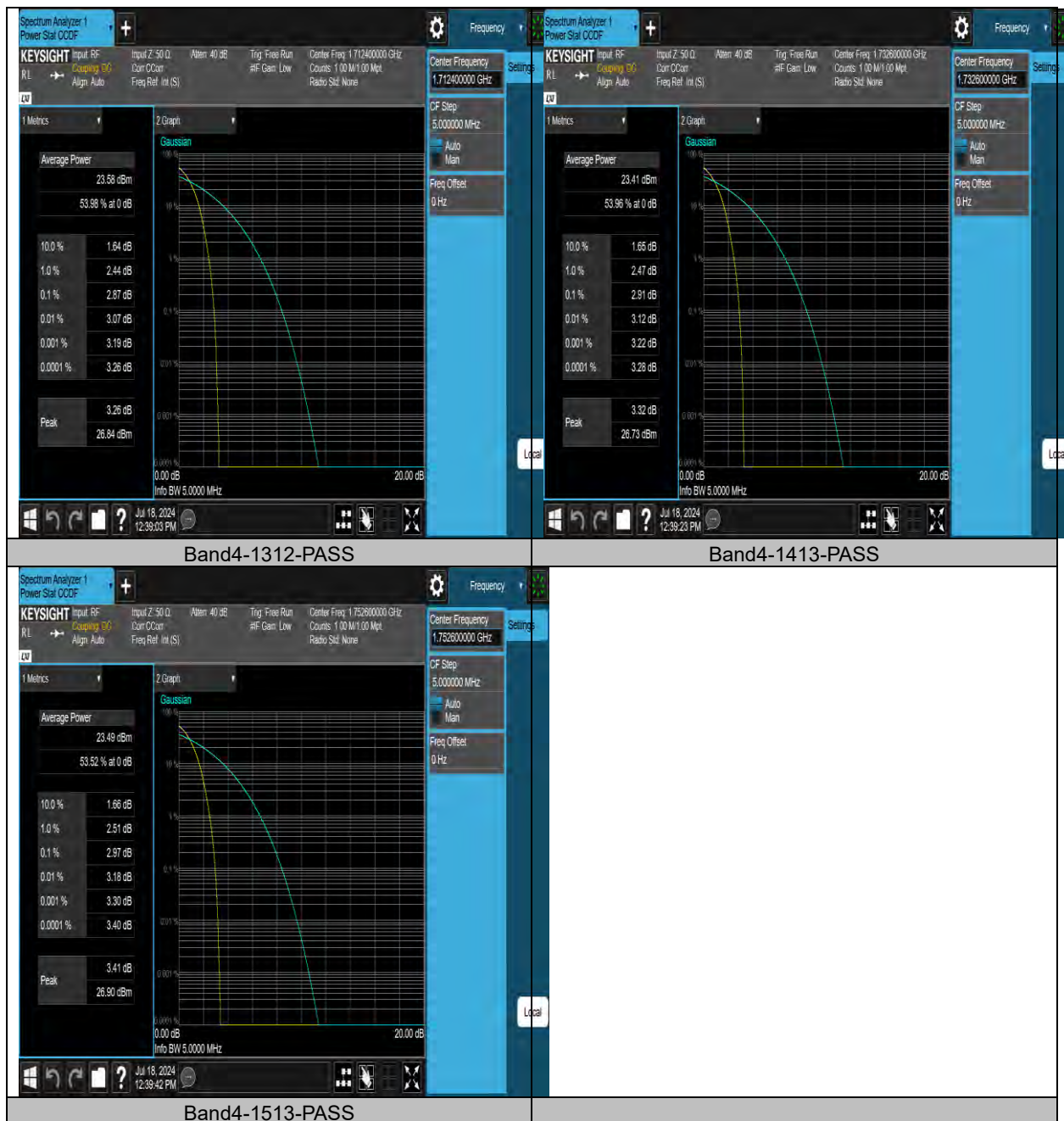
### WCDMA BAND 4

#### PEAK-TO-AVERAGE RATIO

##### Test Result

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-------|---------|---------------------------|------------|---------|
| Band4 | 1312    | 2.87                      | 13         | PASS    |
| Band4 | 1413    | 2.91                      | 13         | PASS    |
| Band4 | 1513    | 2.97                      | 13         | PASS    |

## Test Graphs





Test Report No.: W7L-240618W001RF07

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(MHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band4 | 1312    | 4.1490                      | 4.694                   | ---        | PASS    |
| Band4 | 1413    | 4.1446                      | 4.699                   | ---        | PASS    |
| Band4 | 1513    | 4.1460                      | 4.699                   | ---        | PASS    |

## Test Graphs





Test Report No.: W7L-240618W001RF07

## BAND EDGE

### Test Result

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band4 | 1312    | 1710.00         | -27.55       | -13        | PASS    |
| Band4 | 1513    | 1755.11         | -28.71       | -13        | PASS    |

## Test Graphs





Test Report No.: W7L-240618W001RF07

## CONDUCTED SPURIOUS EMISSION

### Test Result

| Band  | Channel | Frequency Range (Mhz) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|--------------|-------------|---------|
| Band4 | 1312    | 30~1000MHz            | -48.92       | -13         | PASS    |
| Band4 | 1312    | 1000~10000MHz         | -41.14       | -13         | PASS    |
| Band4 | 1312    | 10000~20000MHz        | -37.48       | -13         | PASS    |
| Band4 | 1413    | 30~1000MHz            | -49.03       | -13         | PASS    |
| Band4 | 1413    | 1000~10000MHz         | -40.87       | -13         | PASS    |
| Band4 | 1413    | 10000~20000MHz        | -37.24       | -13         | PASS    |
| Band4 | 1513    | 30~1000MHz            | -49.23       | -13         | PASS    |
| Band4 | 1513    | 1000~10000MHz         | -40.91       | -13         | PASS    |
| Band4 | 1513    | 10000~20000MHz        | -37.4        | -13         | PASS    |

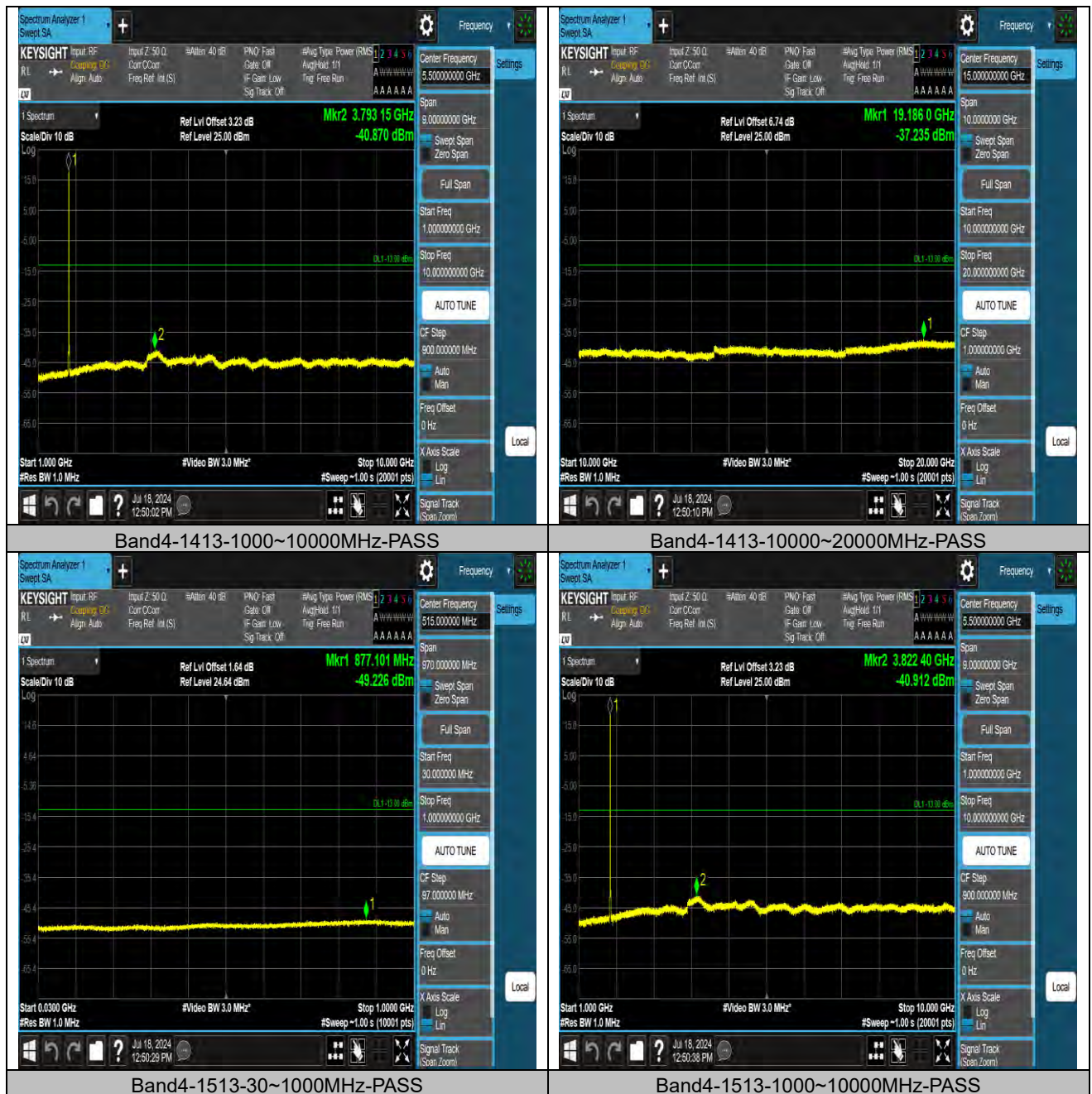
## Test Graphs





BUREAU  
VERITAS

## Test Report No.: W7L-240618W001RF07





BUREAU  
VERITAS

Test Report No.: W7L-240618W001RF07



Band4-1513-10000~20000MHz-PASS

## FREQUENCY STABILITY

### Test Result

| Voltage |         |               |                  |                |                 |                |                |               |         |
|---------|---------|---------------|------------------|----------------|-----------------|----------------|----------------|---------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | FL (MHz)       | FH (MHz)       | Limit (MHz)   | Verdict |
| Band4   | 1312    | VN            | NT               | -9750.0<br>0   | -5.6937<br>63   | 1710.3<br>1915 | ---            | 1710-1<br>755 | PASS    |
| Band4   | 1312    | VL            | NT               | -6500.0<br>0   | -3.7958<br>42   | 1710.3<br>193  | ---            | 1710-1<br>755 | PASS    |
| Band4   | 1312    | VH            | NT               | -5100.0<br>0   | -2.9782<br>76   | 1710.3<br>2    | ---            | 1710-1<br>755 | PASS    |
| Band4   | 1513    | VN            | NT               | -9020.0<br>0   | -5.1466<br>39   | ---            | 1754.6<br>6433 | 1710-1<br>755 | PASS    |
| Band4   | 1513    | VL            | NT               | -9890.0<br>0   | -5.6430<br>45   | ---            | 1754.6<br>6331 | 1710-1<br>755 | PASS    |
| Band4   | 1513    | VH            | NT               | -9130.0<br>0   | -5.2094<br>03   | ---            | 1754.6<br>6222 | 1710-1<br>755 | PASS    |

| Temperature |         |               |                  |                |                 |                |                |               |         |
|-------------|---------|---------------|------------------|----------------|-----------------|----------------|----------------|---------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | FL (MHz)       | FH (MHz)       | Limit (MHz)   | Verdict |
| Band4       | 1312    | NV            | -30              | -7640.0<br>0   | -4.4615<br>74   | 1710.3<br>2176 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | -20              | -6130.0<br>0   | -3.5797<br>71   | 1710.3<br>2287 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | -10              | -2640.0<br>0   | -1.5416<br>96   | 1710.3<br>2416 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 0                | -9250.0<br>0   | -5.4017<br>75   | 1710.3<br>1855 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 10               | -3890.0<br>0   | -2.2716<br>65   | 1710.3<br>2016 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 20               | -6800.0<br>0   | -3.9710<br>35   | 1710.3<br>201  | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 30               | -4040.0<br>0   | -2.3592<br>62   | 1710.3<br>2436 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 40               | -4990.0<br>0   | -2.9140<br>39   | 1710.3<br>1886 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1312    | NV            | 50               | -4480.0<br>0   | -2.6162<br>11   | 1710.3<br>2262 | ---            | 1710-1<br>755 | PASS    |
| Band4       | 1513    | NV            | -30              | -6790.0<br>0   | -3.8742<br>44   | ---            | 1754.6<br>6476 | 1710-1<br>755 | PASS    |
| Band4       | 1513    | NV            | -20              | -7570.0<br>0   | -4.3192<br>97   | ---            | 1754.6<br>6583 | 1710-1<br>755 | PASS    |
| Band4       | 1513    | NV            | -10              | -5720.0<br>0   | -3.2637<br>22   | ---            | 1754.6<br>7058 | 1710-1<br>755 | PASS    |
| Band4       | 1513    | NV            | 0                | -7970.0<br>0   | -4.5475<br>29   | ---            | 1754.6<br>6683 | 1710-1<br>755 | PASS    |



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Test Report No.: W7L-240618W001RF07

|       |      |    |    |              |               |     |                |               |      |
|-------|------|----|----|--------------|---------------|-----|----------------|---------------|------|
| Band4 | 1513 | NV | 10 | -5070.0<br>0 | -2.8928<br>45 | --- | 1754.6<br>7203 | 1710-1<br>755 | PASS |
| Band4 | 1513 | NV | 20 | -5660.0<br>0 | -3.2294<br>88 | --- | 1754.6<br>6724 | 1710-1<br>755 | PASS |
| Band4 | 1513 | NV | 30 | -7870.0<br>0 | -4.4904<br>71 | --- | 1754.6<br>6623 | 1710-1<br>755 | PASS |
| Band4 | 1513 | NV | 40 | -6970.0<br>0 | -3.9769<br>49 | --- | 1754.6<br>6908 | 1710-1<br>755 | PASS |
| Band4 | 1513 | NV | 50 | -8870.0<br>0 | -5.0610<br>52 | --- | 1754.6<br>6338 | 1710-1<br>755 | PASS |



Test Report No.: W7L-240618W001RF07

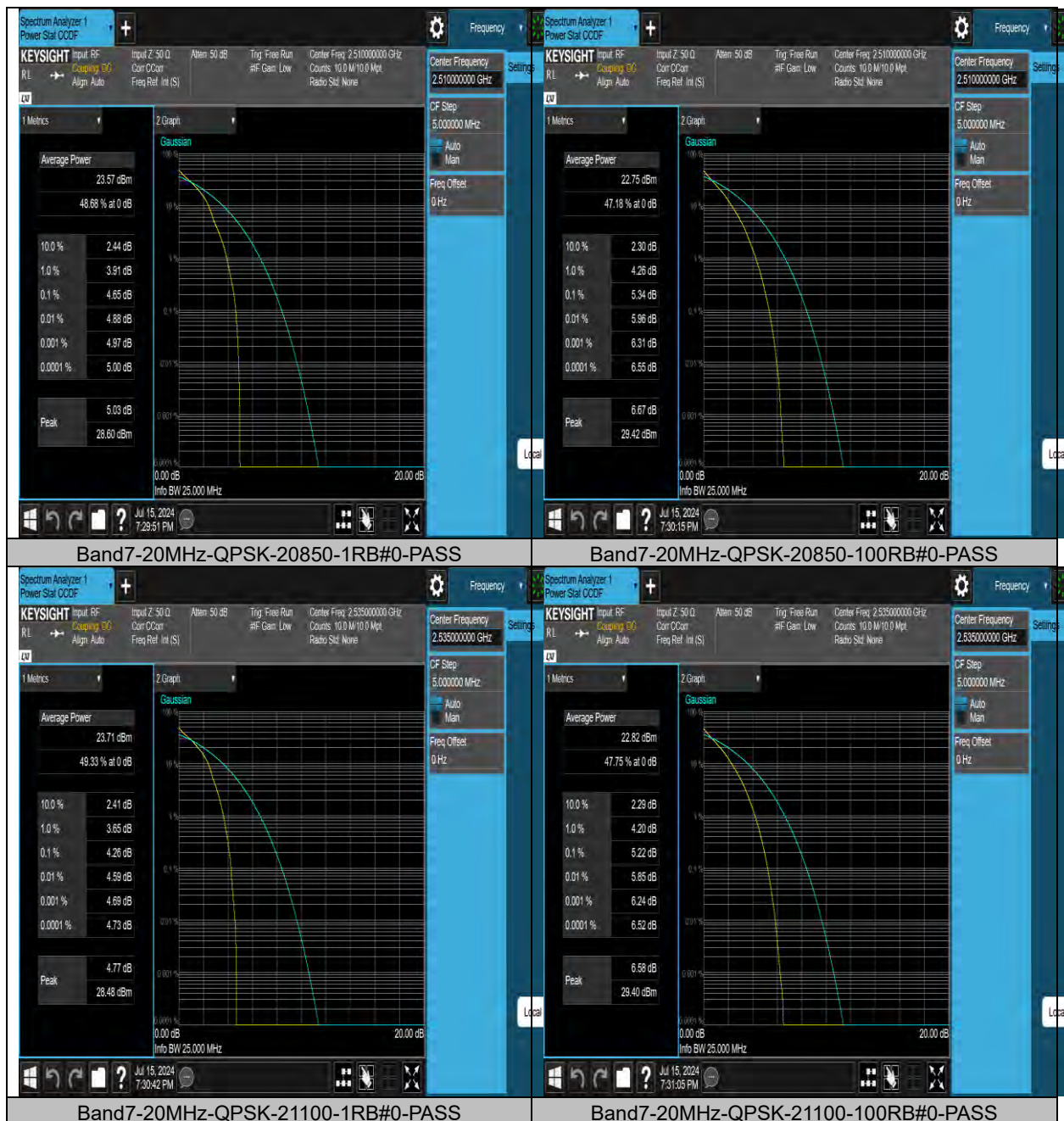
## LTE BAND7

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 4.65       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 5.34       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 4.26       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.22       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 1RB#0            | 4.51       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.27       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 1RB#0            | 5.22       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 6.05       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 1RB#0            | 5.18       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 5.99       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 1RB#0            | 5.41       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.05       | 13        | PASS    |

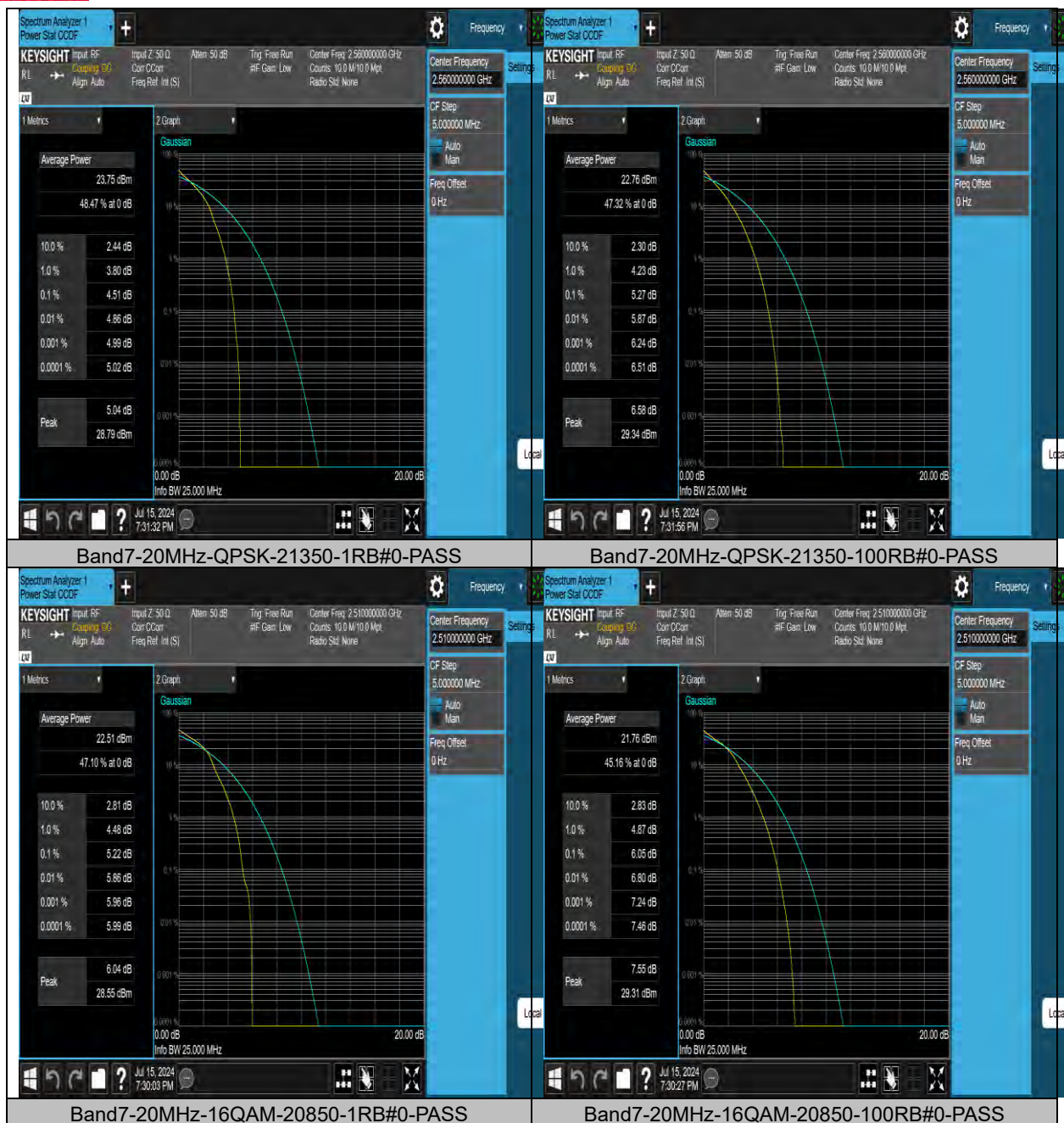
## Test Graphs





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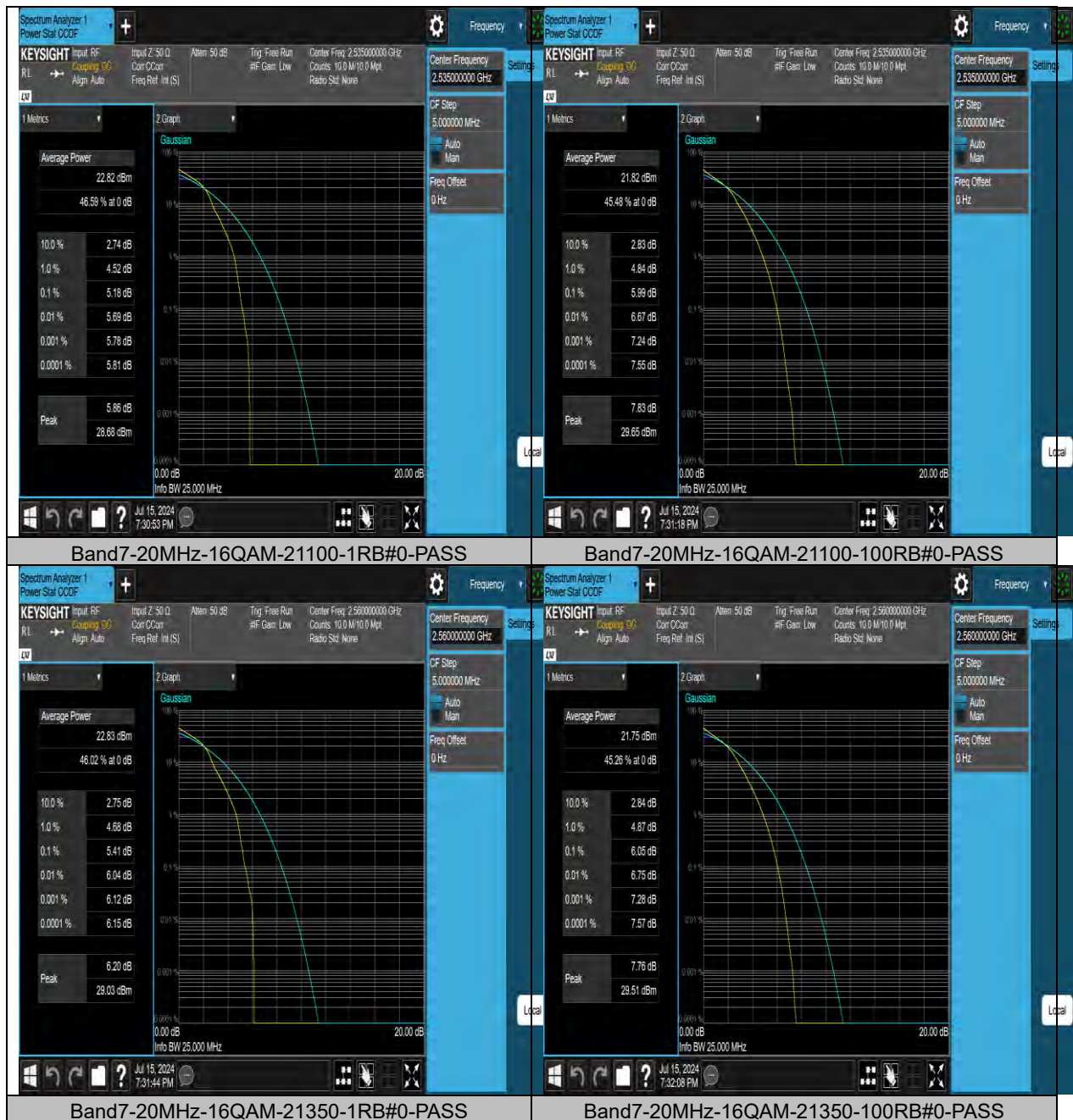
## Test Report No.: W7L-240618W001RF07





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## Test Report No.: W7L-240618W001RF07

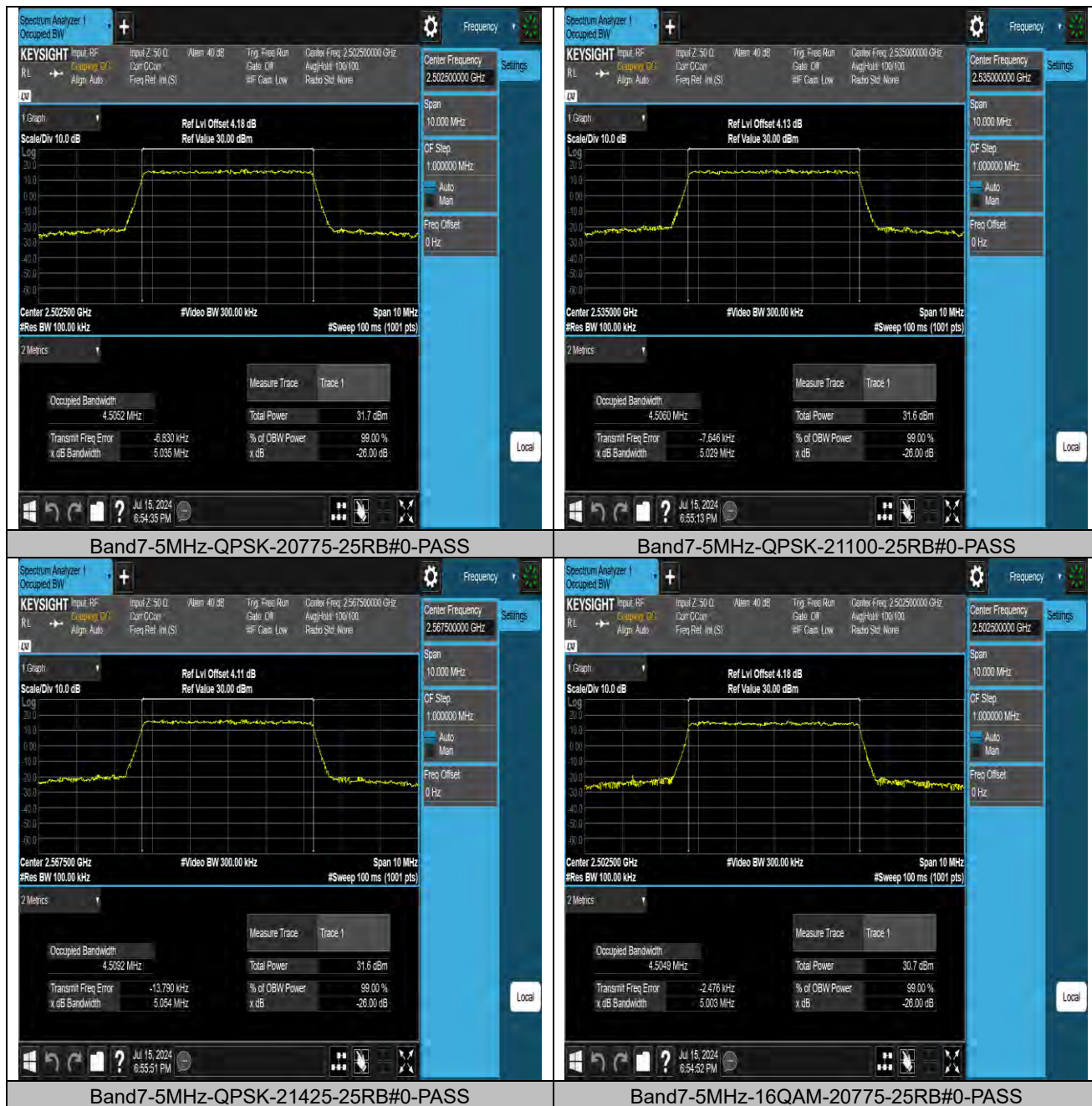


## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 4.5052                   | 5.035                | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.5060                   | 5.029                | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.5092                   | 5.054                | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 4.5049                   | 5.003                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.4991                   | 5.002                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 4.5037                   | 4.999                | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 9.0122                   | 9.809                | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 9.0010                   | 9.832                | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 8.9975                   | 9.818                | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 9.0053                   | 9.796                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.9787                   | 9.794                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 8.9835                   | 9.798                | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 13.486                   | 14.79                | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.484                   | 14.78                | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 13.477                   | 14.71                | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 13.475                   | 14.72                | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.475                   | 14.69                | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 13.485                   | 14.64                | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 17.965                   | 19.45                | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 17.972                   | 19.50                | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 17.957                   | 19.42                | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 17.927                   | 19.38                | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 17.935                   | 19.41                | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 17.915                   | 19.40                | PASS    |

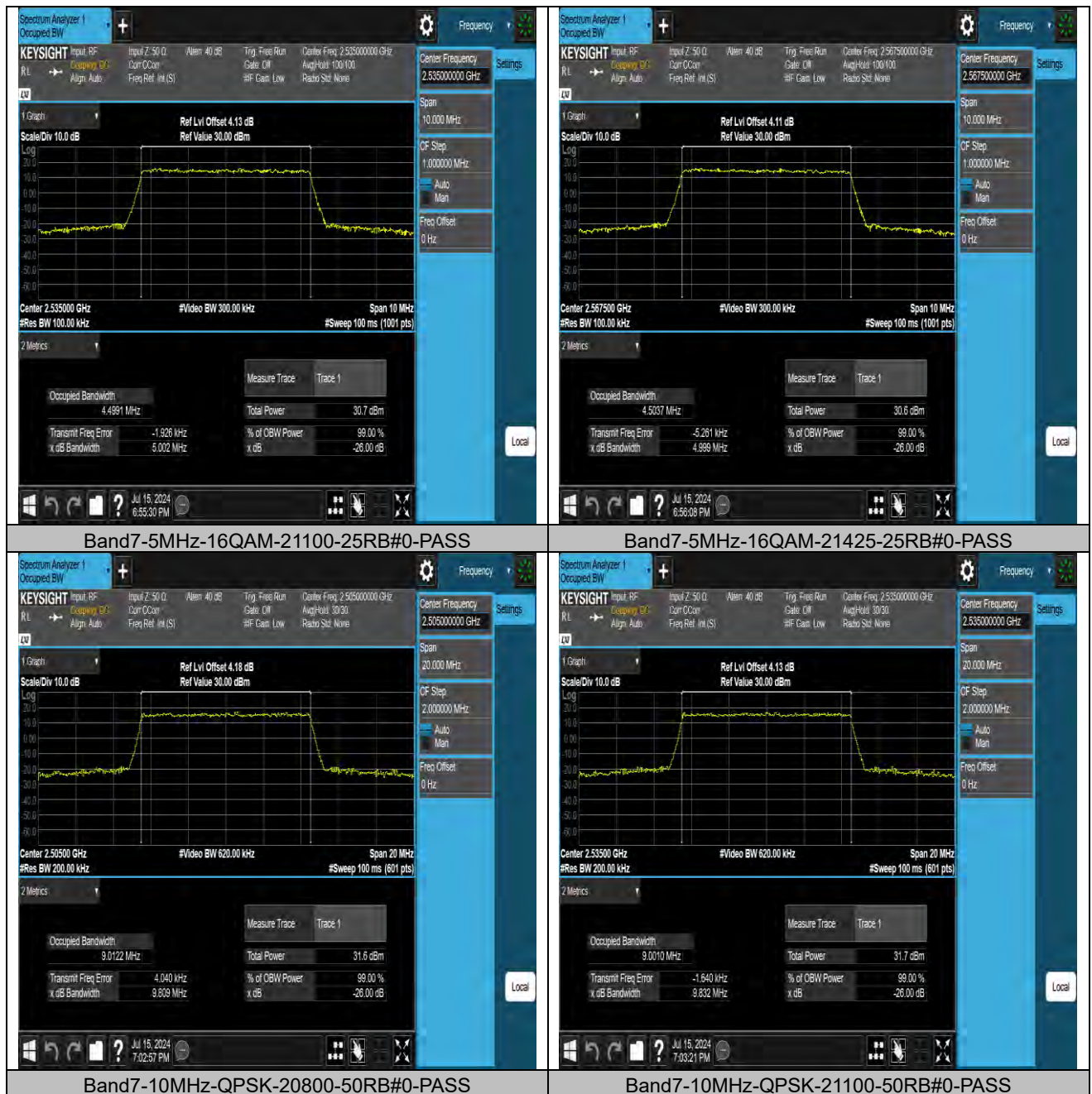
## Test Graphs





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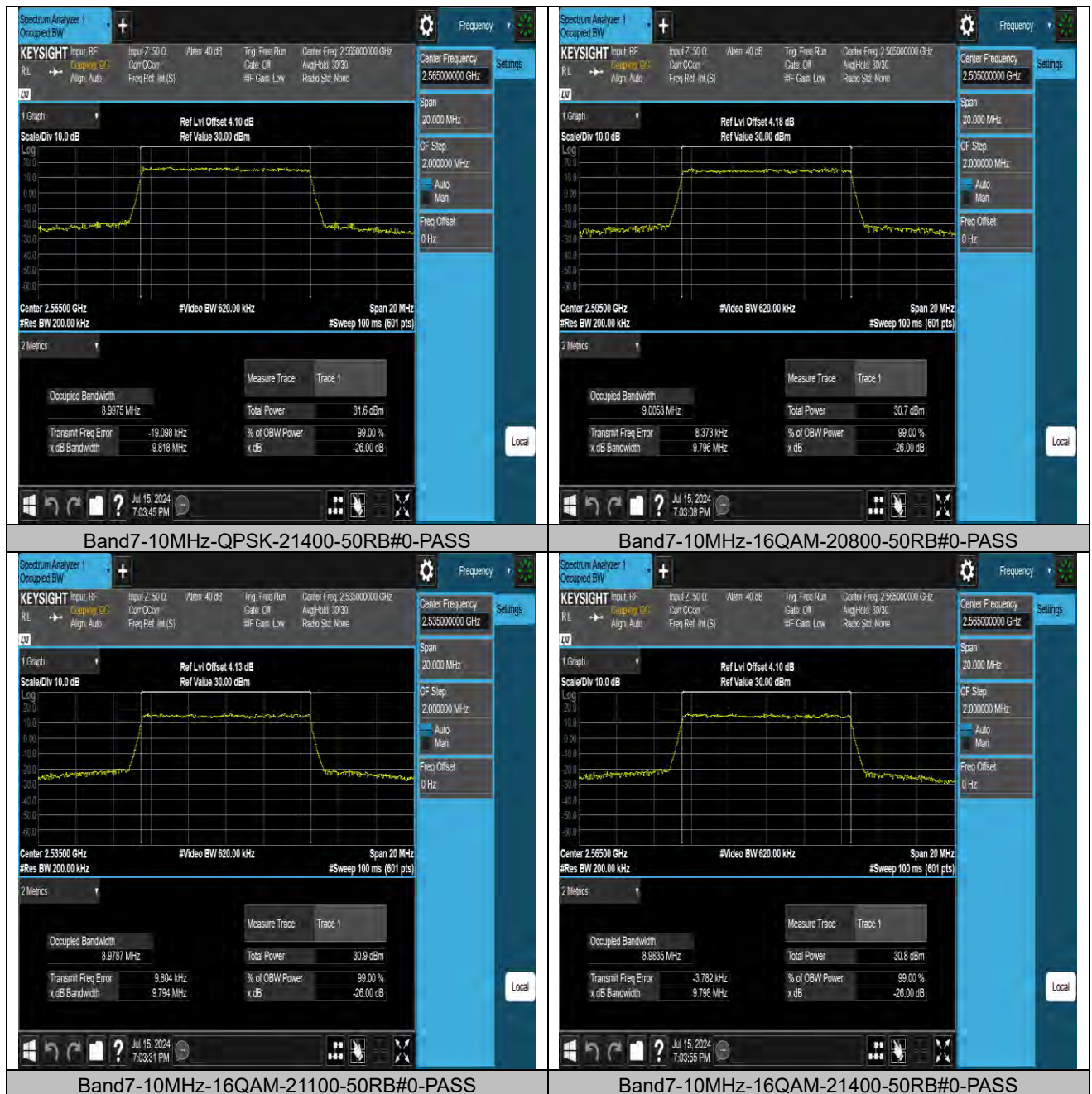
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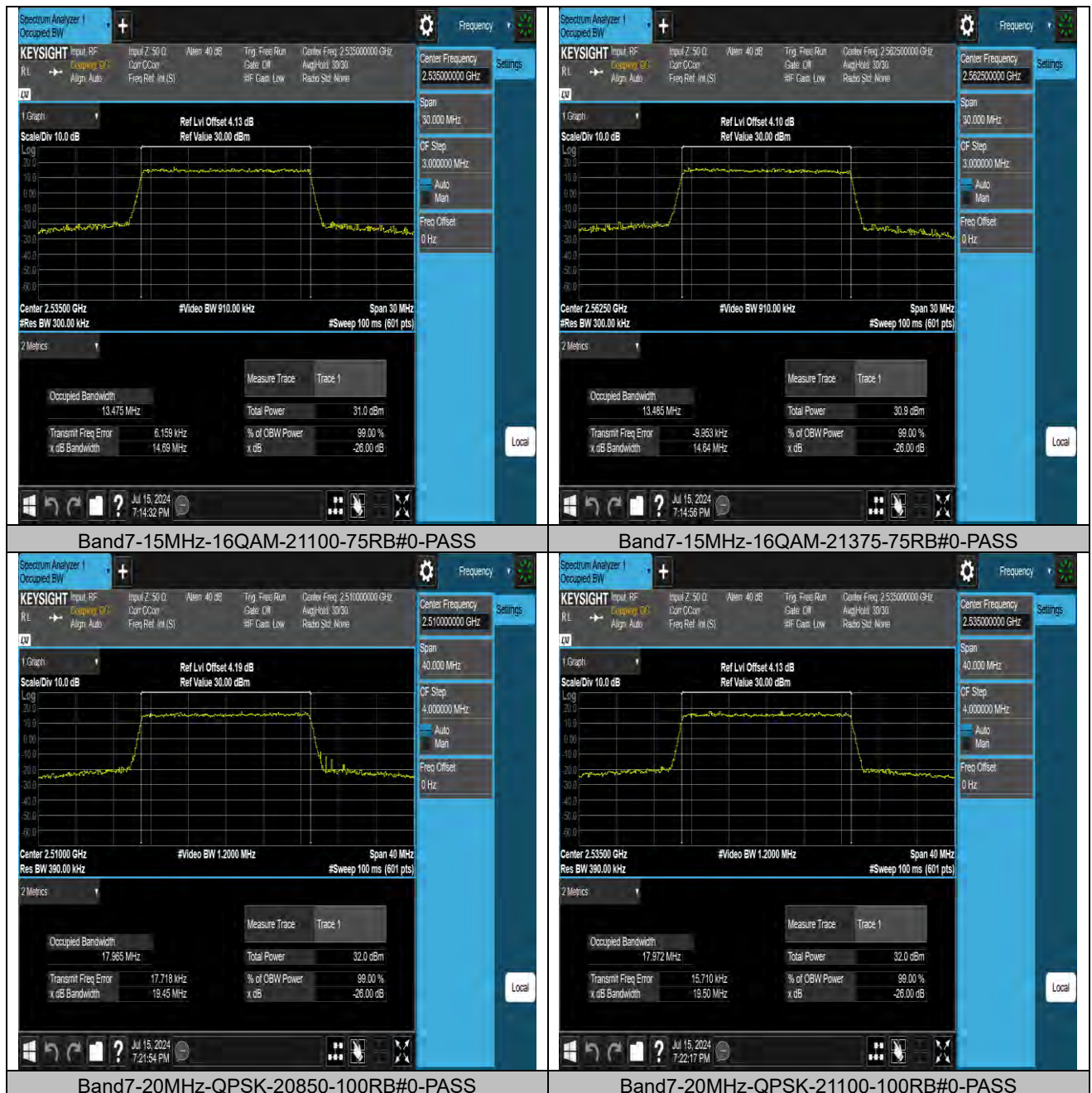
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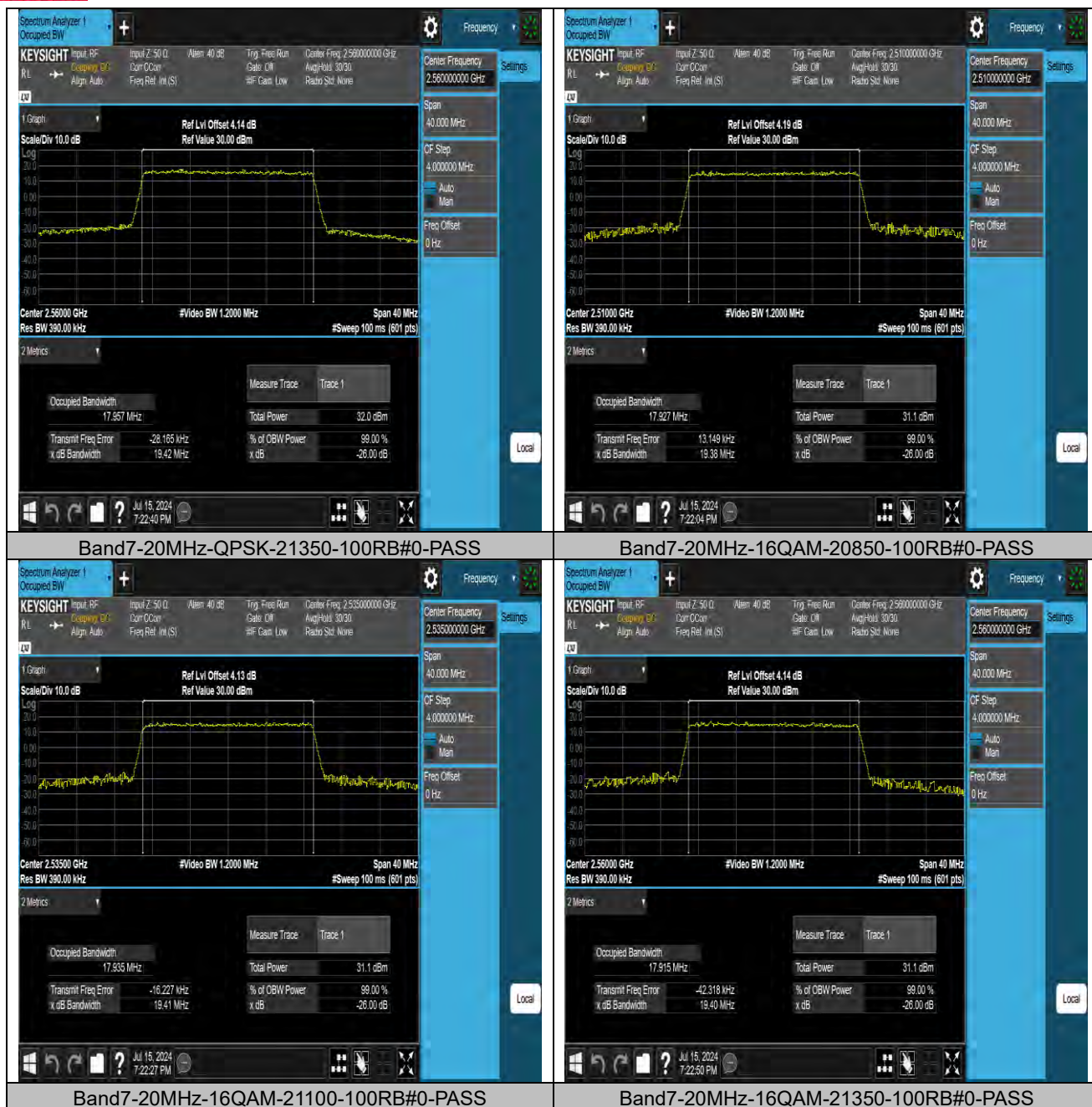
Test Report No.: W7L-240618W001RF07





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## Test Report No.: W7L-240618W001RF07



## BAND EDGE

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | -27.39      | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | -43.17      | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24           | -25.77      | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | -41.22      | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | -29.68      | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | -44.25      | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#24           | -26.19      | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | -42.85      | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | -48.02      | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | -44.14      | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#49           | -48.50      | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | -43.51      | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 1RB#0            | -48.22      | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | -45.20      | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 1RB#49           | -48.58      | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | -43.99      | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | -47.76      | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | -37.70      | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#74           | -48.63      | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | -44.40      | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 1RB#0            | -47.84      | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | -41.17      | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 1RB#74           | -48.63      | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | -45.37      | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | -48.07      | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | -36.68      | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 1RB#99           | -48.78      | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | -47.05      | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 1RB#0            | -48.11      | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | -39.80      | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 1RB#99           | -48.78      | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | -47.07      | PASS    |

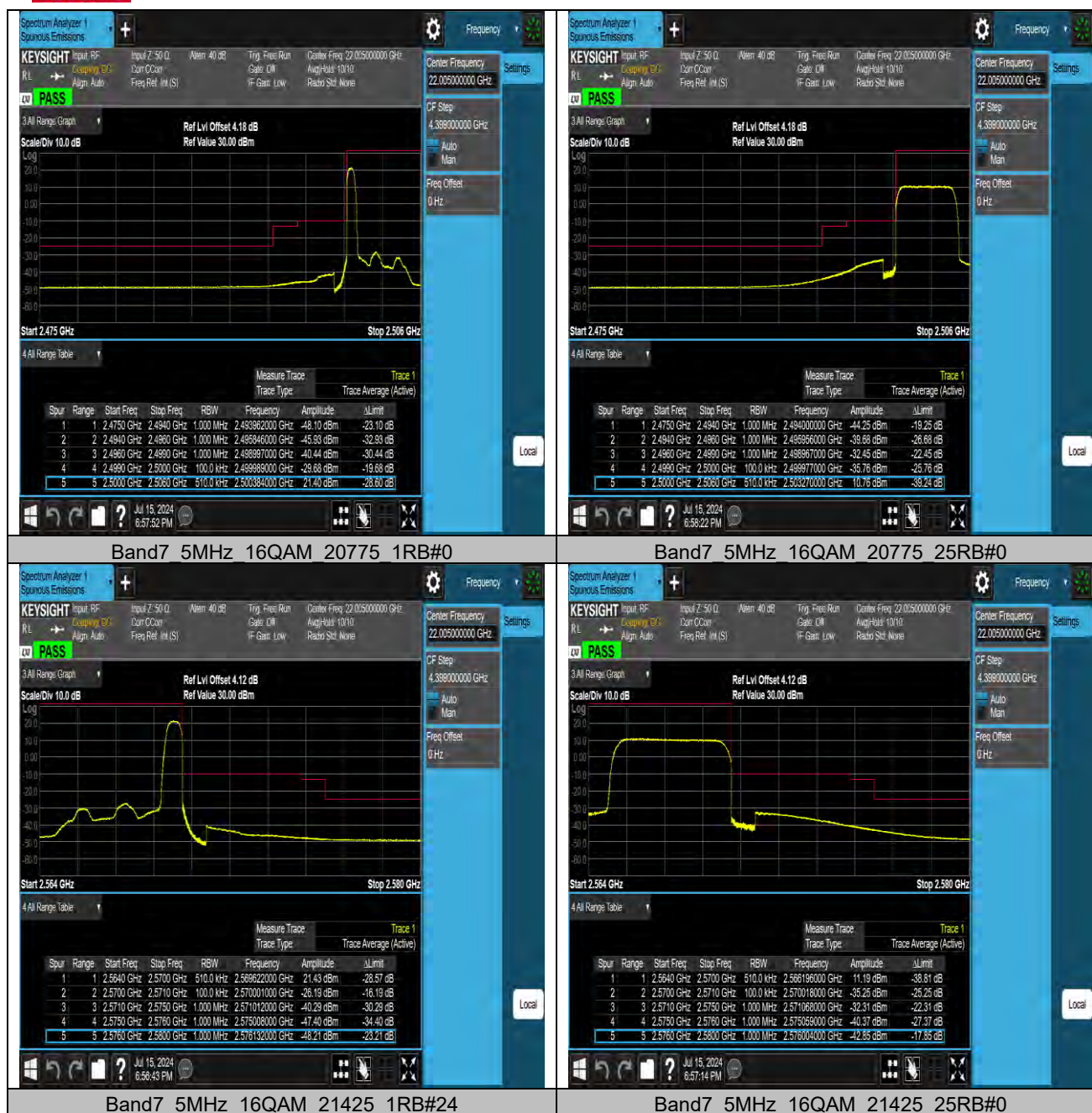


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Test Report No.: W7L-240618W001RF07

## Test Graphs







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## Test Report No.: W7L-240618W001RF07





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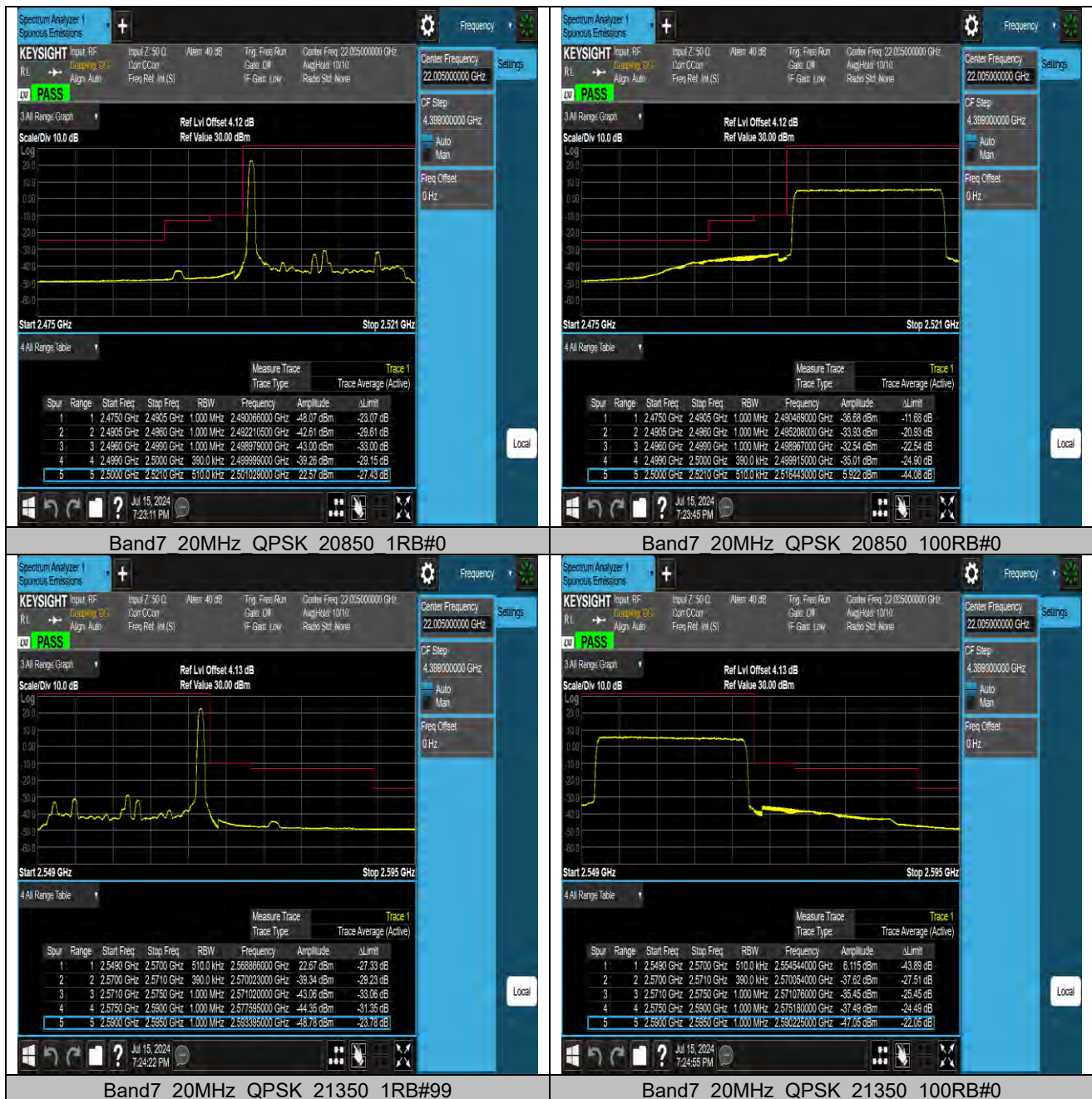






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## Test Report No.: W7L-240618W001RF07





## CONDUCTED SPURIOUS EMISSION

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 30~1000         | -58.20       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 1000~10000      | -48.11       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 10000~20000     | -55.75       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 20000~27000     | -53.77       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 30~1000         | -58.20       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 1000~10000      | -48.18       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 10000~20000     | -55.84       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 20000~27000     | -53.74       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 30~1000         | -58.10       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 1000~10000      | -48.14       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 10000~20000     | -55.84       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 20000~27000     | -53.69       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 30~1000         | -58.16       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 1000~10000      | -48.18       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 10000~20000     | -55.93       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 20000~27000     | -53.73       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 30~1000         | -58.17       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 1000~10000      | -48.21       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 10000~20000     | -55.78       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 20000~27000     | -53.79       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 30~1000         | -58.12       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 1000~10000      | -48.15       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 10000~20000     | -55.82       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 20000~27000     | -53.74       | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | 30~1000         | -58.16       | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | 1000~10000      | -48.08       | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | 10000~20000     | -55.76       | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | 20000~27000     | -53.70       | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 1RB#0            | 30~1000         | -58.10       | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 1RB#0            | 1000~10000      | -47.39       | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 1RB#0            | 10000~20000     | -55.88       | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 1RB#0            | 20000~27000     | -53.77       | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#0            | 30~1000         | -58.17       | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#0            | 1000~10000      | -48.18       | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#0            | 10000~20000     | -55.79       | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#0            | 20000~27000     | -53.70       | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 30~1000         | -58.15       | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 1000~10000      | -48.23       | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 10000~20000     | -55.79       | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 20000~27000     | -53.84       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 30~1000         | -58.18       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 1000~10000      | -48.11       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 10000~20000     | -55.90       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 20000~27000     | -53.54       | PASS    |

|       |       |      |       |       |             |        |      |
|-------|-------|------|-------|-------|-------------|--------|------|
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 30~1000     | -58.14 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 1000~10000  | -48.16 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 10000~20000 | -55.78 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 20000~27000 | -53.72 | PASS |

## Test Graphs



Band7 5MHz QPSK 20775 1RB#0 30~1000 30~1000



Band7 5MHz QPSK 20775 1RB#0 1000~10000 1000~10000



Band7 5MHz QPSK 20775 1RB#0 10000~20000 10000~20000



Band7 5MHz QPSK 20775 1RB#0 20000~27000 20000~27000



Band7 5MHz QPSK 21100 1RB#0 30~1000 30~1000



Band7 5MHz QPSK 21100 1RB#0 1000~10000 1000~10000



Band7 5MHz QPSK 21100 1RB#0 10000~20000 10000~20000



Band7 5MHz QPSK 21100 1RB#0 20000~27000 20000~27000