



**CTC Laboratories, Inc.**

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel: +86-755-27521059 Fax: +86-755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)

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## **Appendix for LTE band 17**

**Applicant: HONGKONG UCLOUDLINK NETWORK  
TECHNOLOGY LIMITED**

**Address: Suite 603, 6/F, Laws Commercial Plaza, 788  
Cheung Sha Wan Road, Kowloon, Hong Kong**

**Product Name: 5G Wireless Data Terminal**

**Model: GLMU21A01**

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## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 24.96       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 24.90       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 24.86       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#0           | 24.06       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#6           | 24.03       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#13          | 23.98       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 24.02       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 25.16       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 24.96       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 24.80       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#0           | 24.07       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#6           | 24.01       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#13          | 24.00       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 24.02       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 25.00       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 24.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 24.87       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 12RB#0           | 24.05       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 12RB#6           | 23.99       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 12RB#13          | 23.83       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 24.01       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 24.17       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 24.16       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 24.01       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#0           | 24.06       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#6           | 24.05       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#13          | 23.98       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 23.02       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.92       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 23.86       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 23.76       | PASS    |

|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band17 | 5MHz  | 16QAM | 23790 | 12RB#0  | 24.03 | PASS |
| Band17 | 5MHz  | 16QAM | 23790 | 12RB#6  | 24.04 | PASS |
| Band17 | 5MHz  | 16QAM | 23790 | 12RB#13 | 24.01 | PASS |
| Band17 | 5MHz  | 16QAM | 23790 | 25RB#0  | 23.02 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 1RB#0   | 23.96 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 1RB#12  | 23.71 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 1RB#24  | 23.83 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 12RB#0  | 24.00 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 12RB#6  | 24.05 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 12RB#13 | 23.83 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 25RB#0  | 23.05 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#0   | 24.86 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#24  | 24.90 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#49  | 24.88 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#0  | 24.07 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#12 | 24.06 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#25 | 24.00 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 50RB#0  | 24.04 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0   | 24.97 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#24  | 25.00 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#49  | 24.88 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#0  | 24.10 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#12 | 24.07 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#25 | 24.02 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0  | 24.04 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0   | 24.93 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#24  | 24.90 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#49  | 24.84 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 25RB#0  | 24.04 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 25RB#12 | 24.07 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 25RB#25 | 24.05 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0  | 24.05 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0   | 24.04 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#24  | 24.08 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#49  | 23.97 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 25RB#0  | 24.06 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 25RB#12 | 24.04 | PASS |

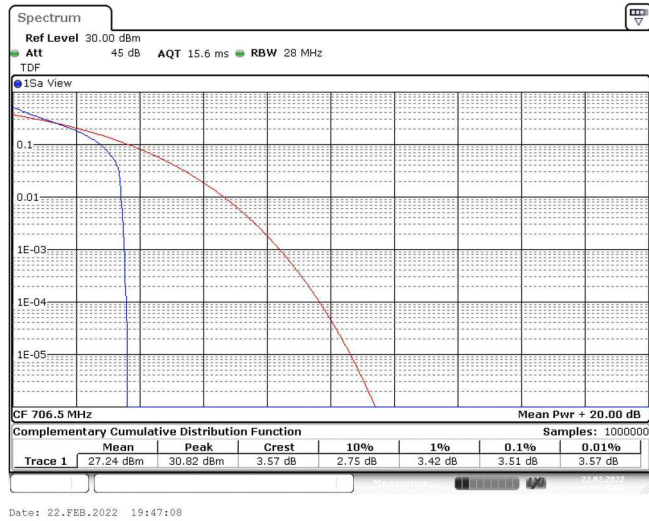
|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band17 | 10MHz | 16QAM | 23780 | 25RB#25 | 24.01 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0  | 23.02 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0   | 23.83 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#24  | 23.85 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#49  | 23.82 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#0  | 24.05 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#12 | 24.07 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#25 | 24.05 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0  | 23.02 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0   | 23.91 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#24  | 23.75 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#49  | 23.65 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#0  | 24.02 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#12 | 24.09 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#25 | 24.11 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0  | 23.05 | PASS |

## Appendix B: Peak-to-Average Ratio(CCDF)

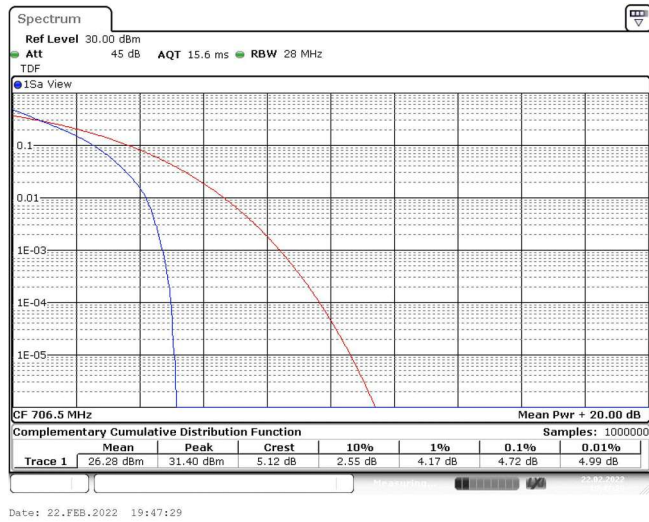
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 3.51       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.72       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 3.22       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.49       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 3.19       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.72       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 4.93       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 5.59       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 4.58       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 5.39       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 4.61       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 5.59       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 3.45       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 4.72       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#0            | 3.36       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 4.70       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | 3.36       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 4.75       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | 5.07       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 5.57       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 1RB#0            | 5.01       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.59       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#0            | 4.84       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.65       | 13        | PASS    |

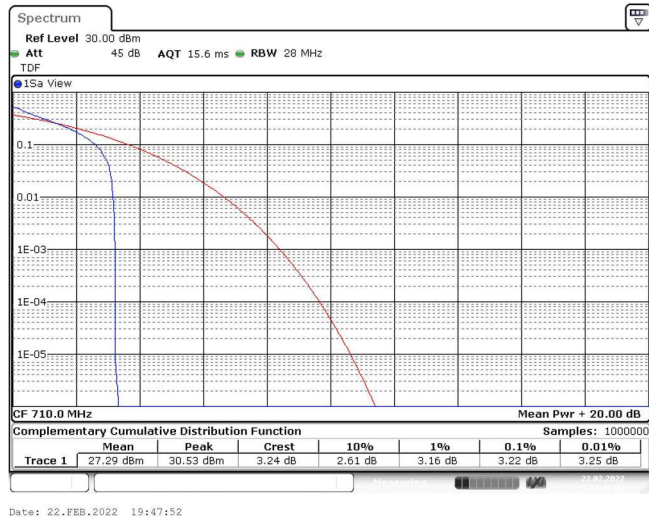
# Test Graphs



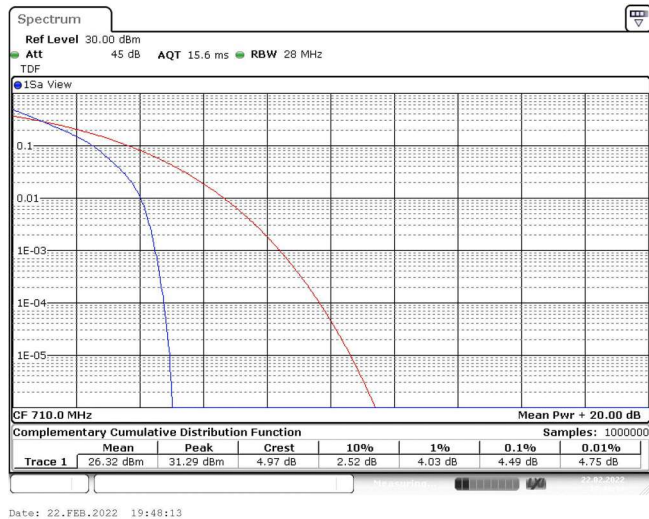
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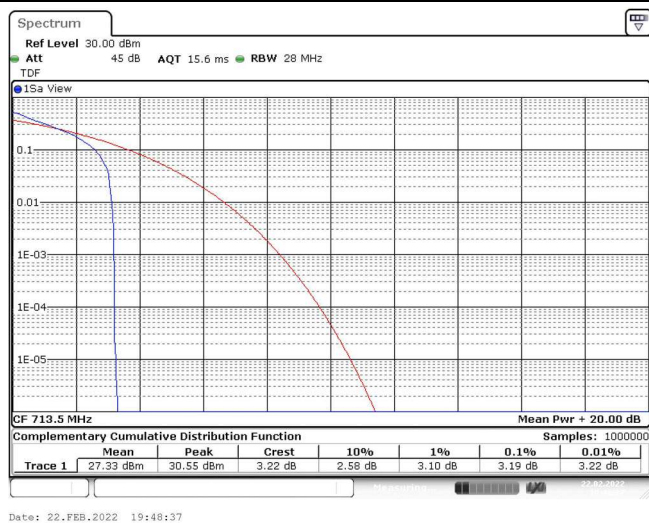
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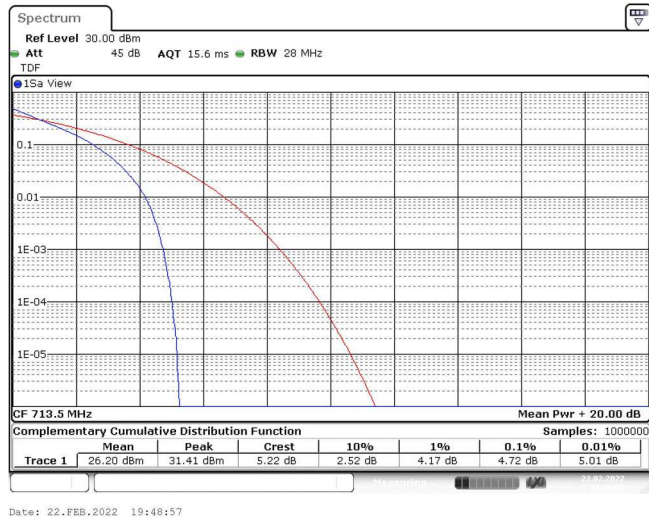


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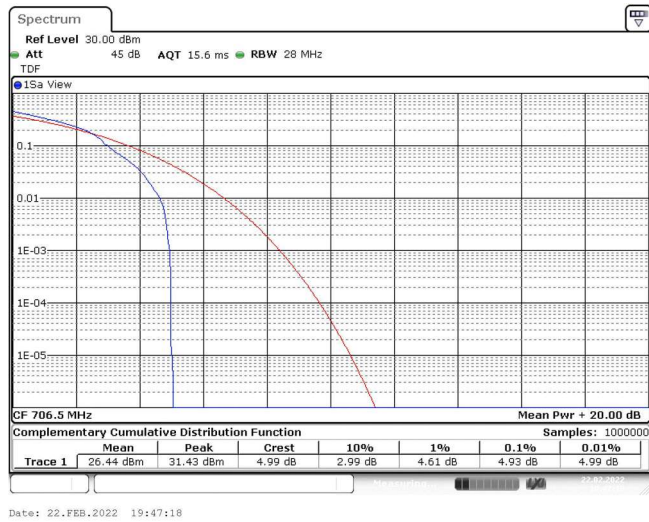


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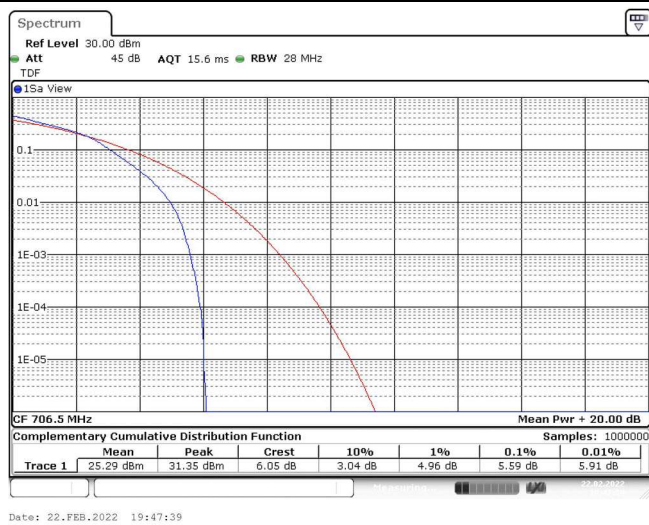




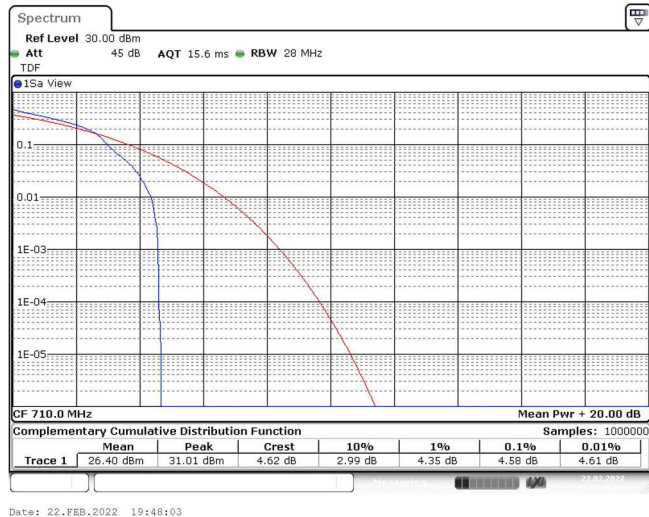
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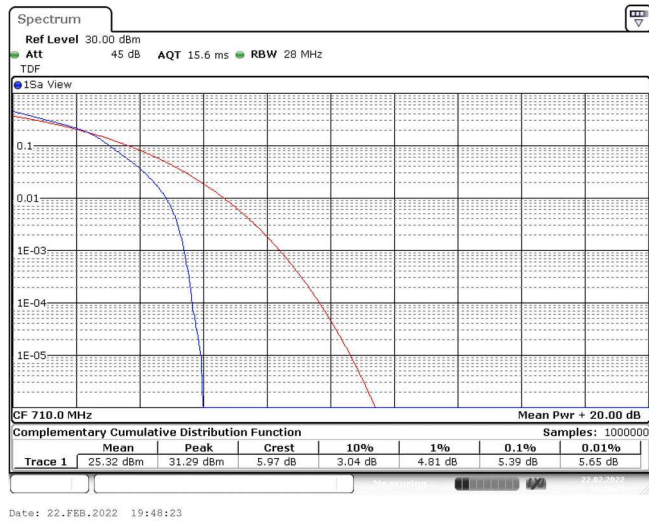
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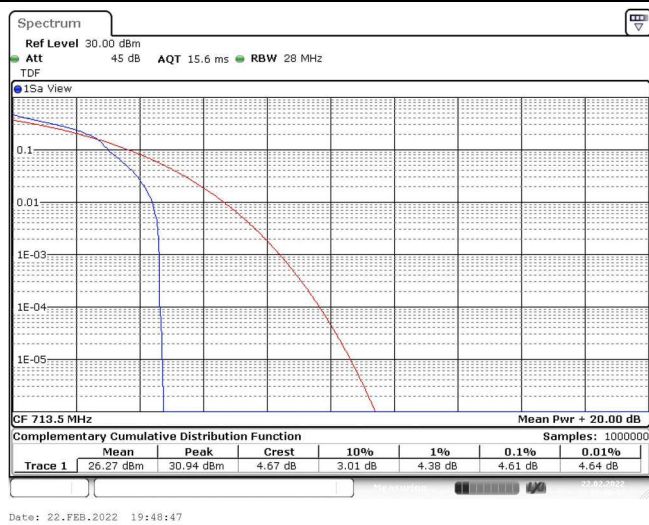
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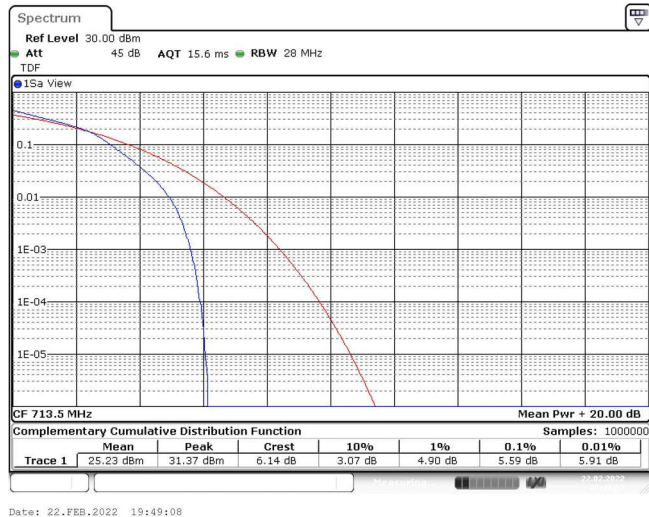
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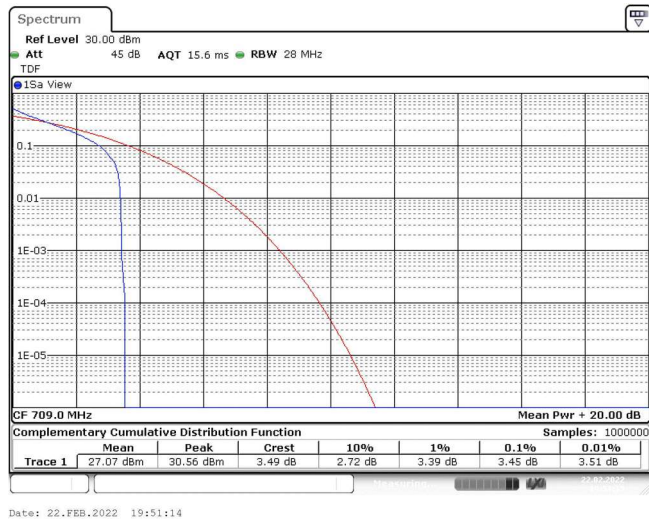
Band17-5MHz-16QAM-23790-25RB#0



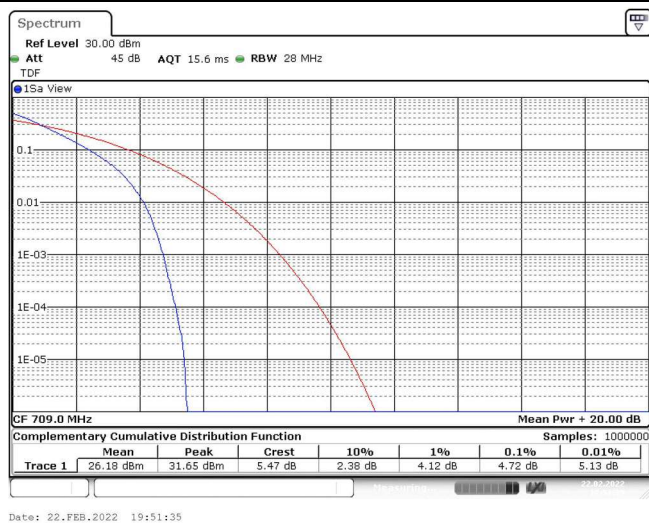
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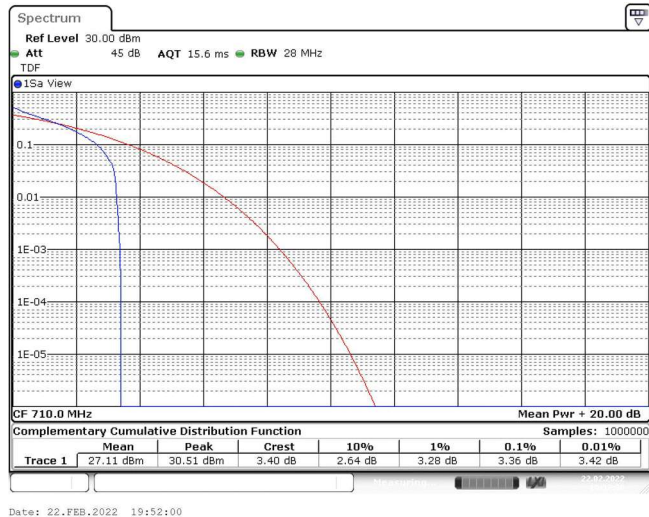
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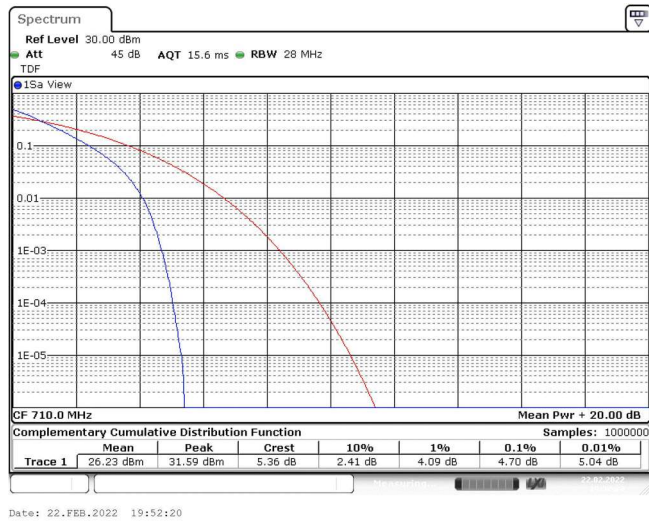
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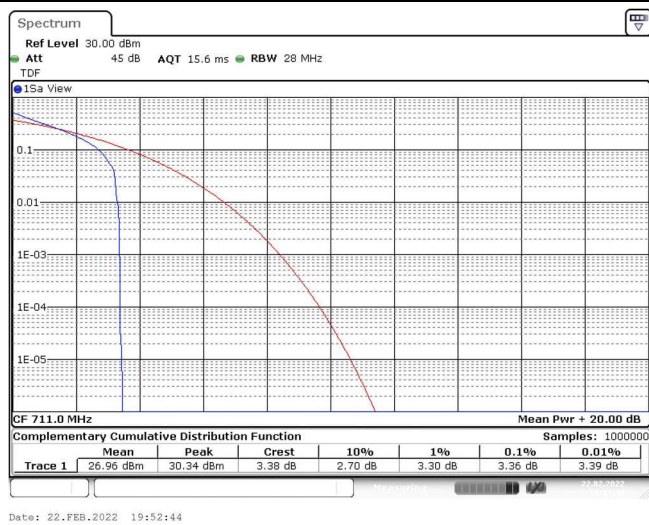
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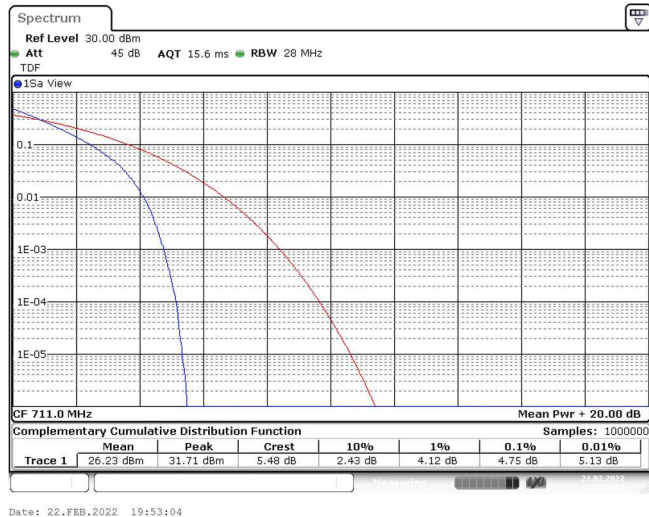
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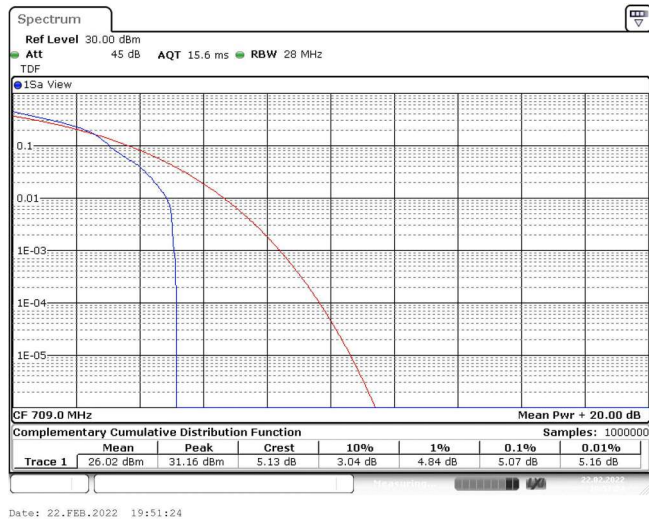
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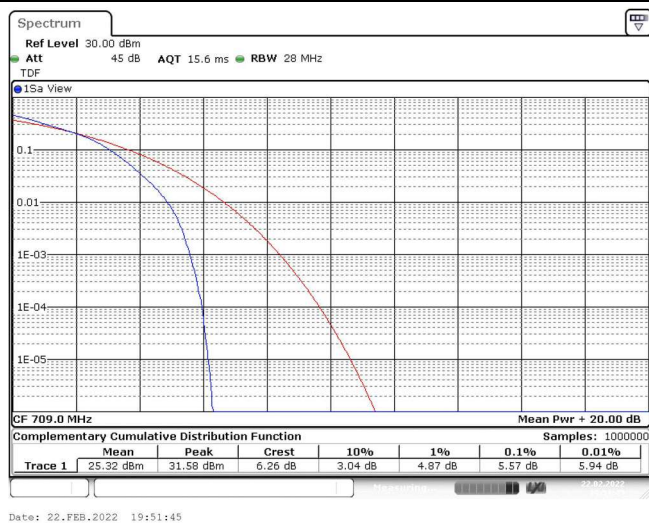
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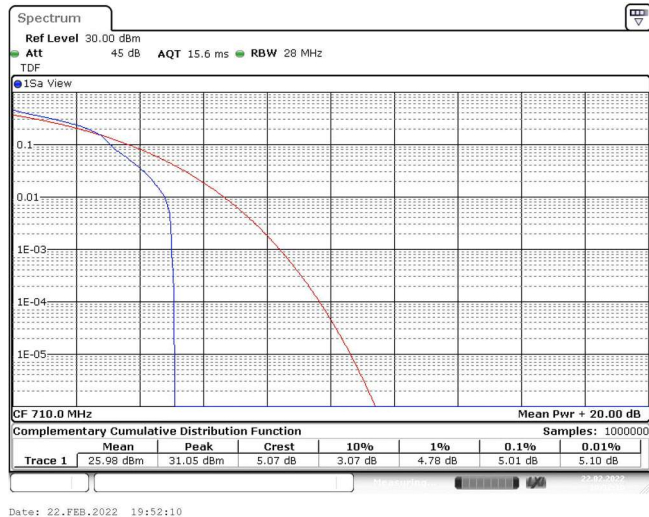
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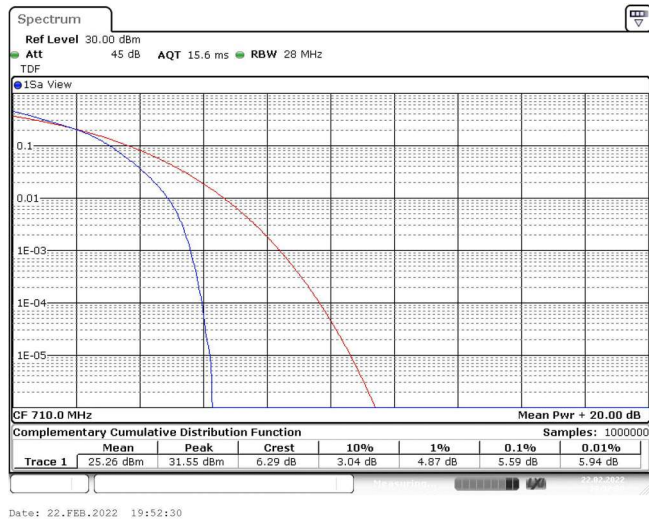
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Band17-10MHz-16QAM-23780-50RB#0



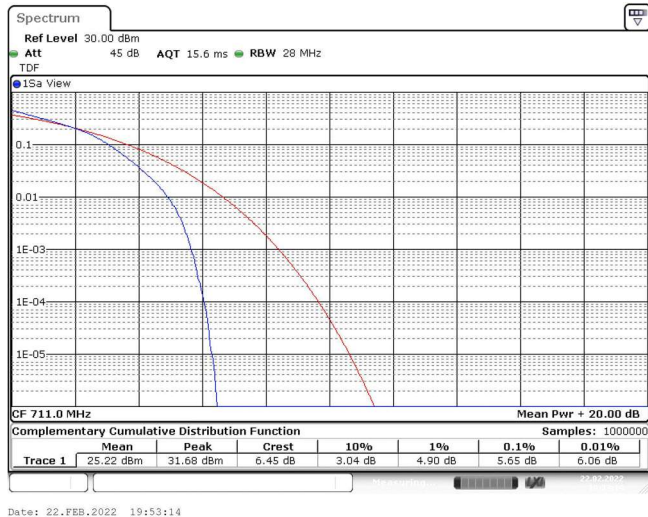
Band17-10MHz-16QAM-23790-1RB#0



Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-1RB#0



Band17-10MHz-16QAM-23800-50RB#0

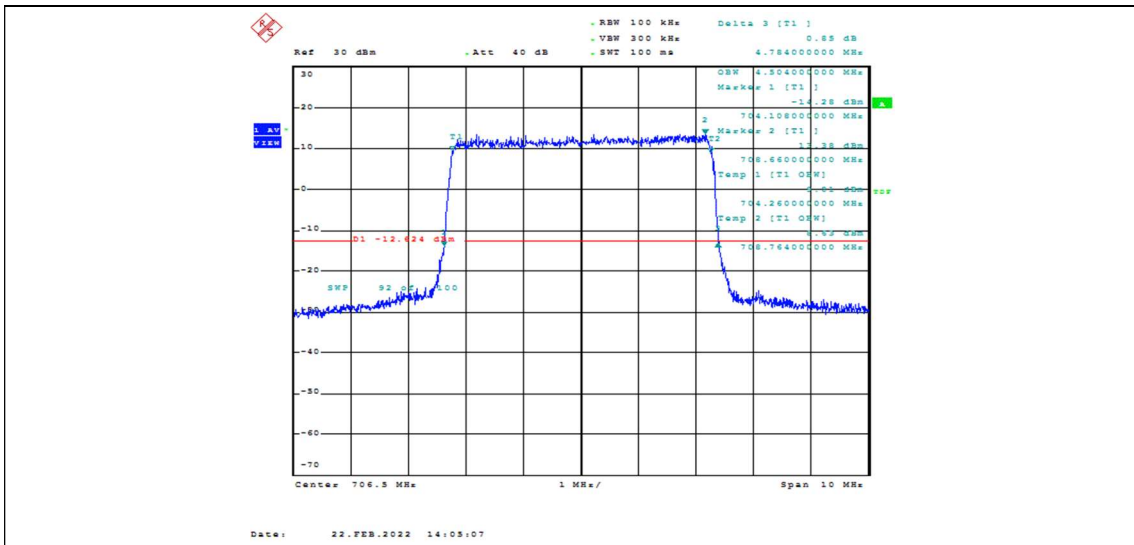
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

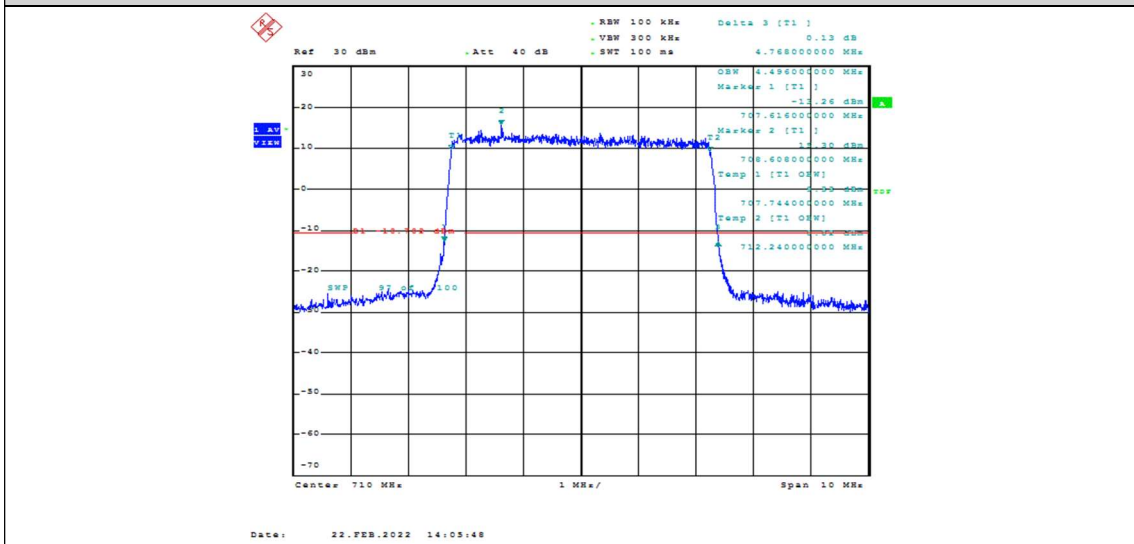
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.504                    | 4.784                | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.496                    | 4.768                | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.512                    | 4.784                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.504                    | 4.800                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.512                    | 4.784                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.512                    | 4.776                | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.942                    | 9.615                | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.942                    | 9.647                | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 9.006                    | 9.647                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 8.974                    | 9.615                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.942                    | 9.615                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 8.974                    | 9.647                | PASS    |



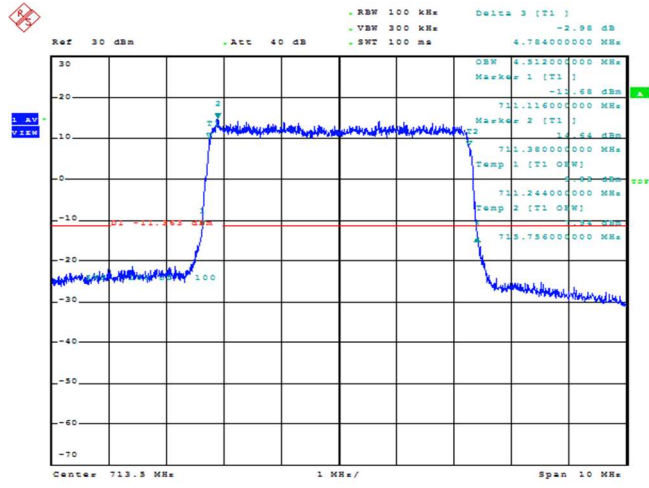
# Test Graphs



Band17-5MHz-QPSK-23755-25RB#0-4.504

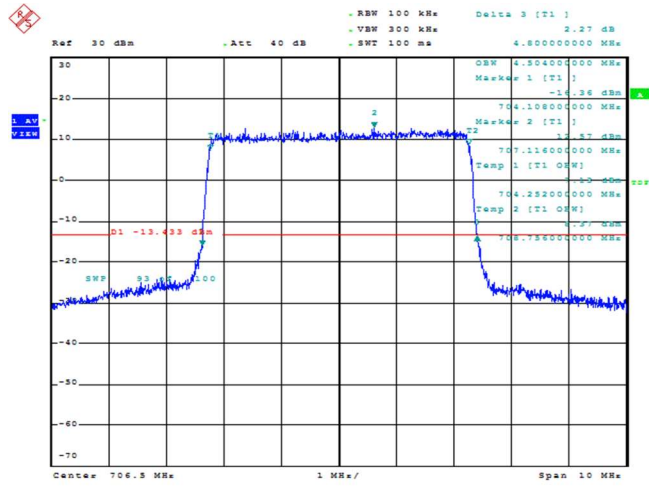


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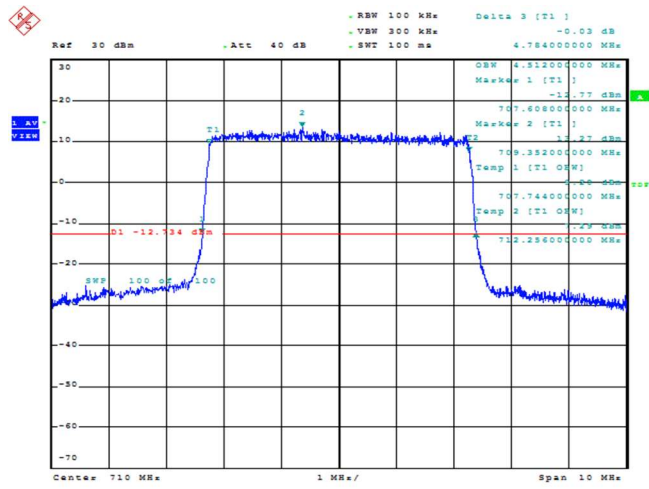
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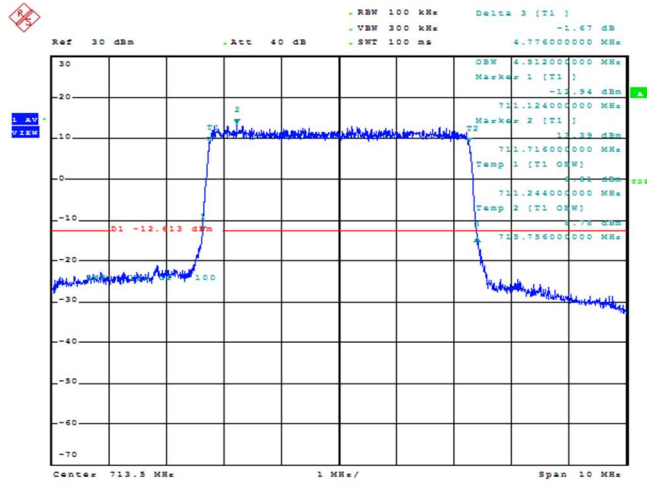
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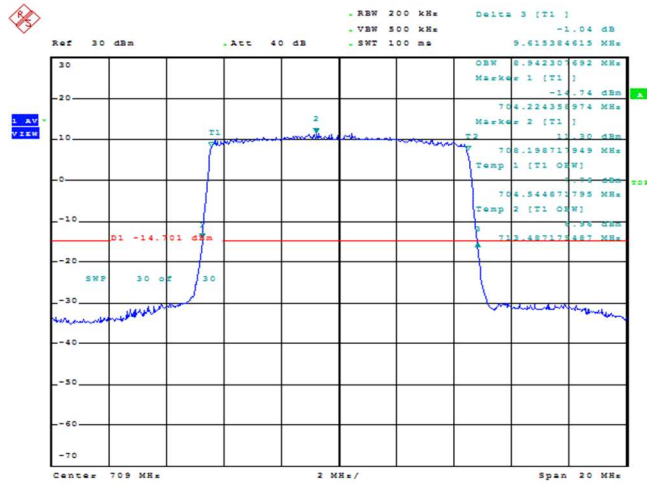
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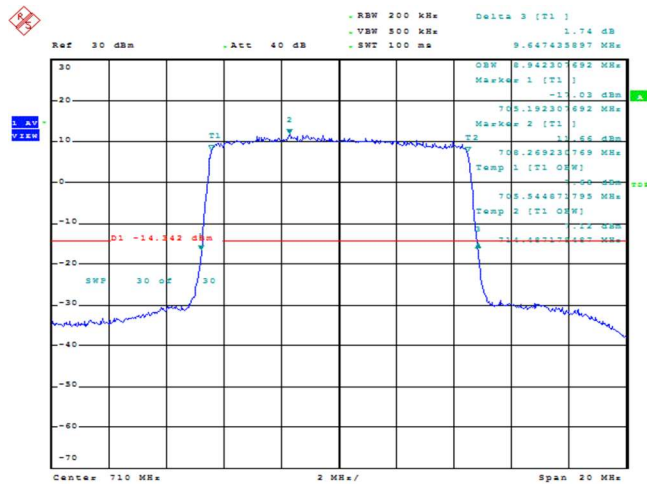
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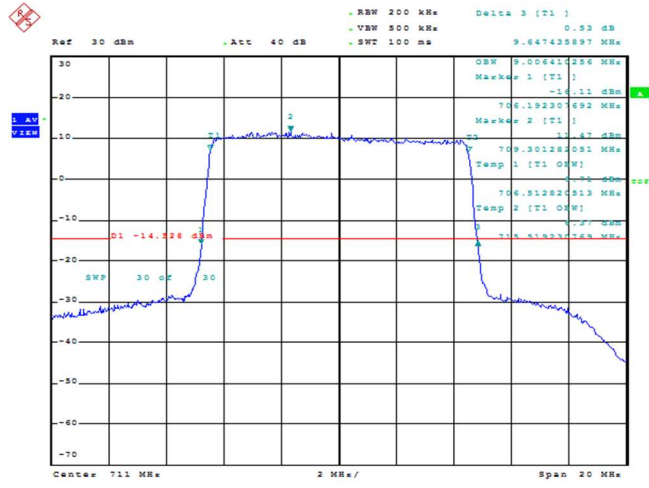
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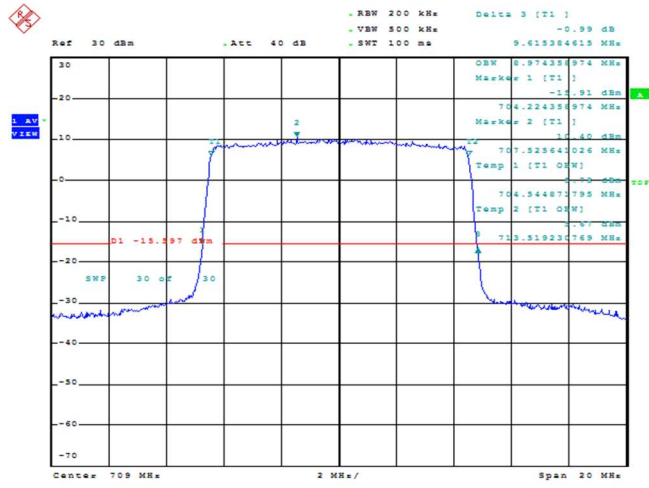
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Band17-10MHz-QPSK-23790-50RB#0-8.942



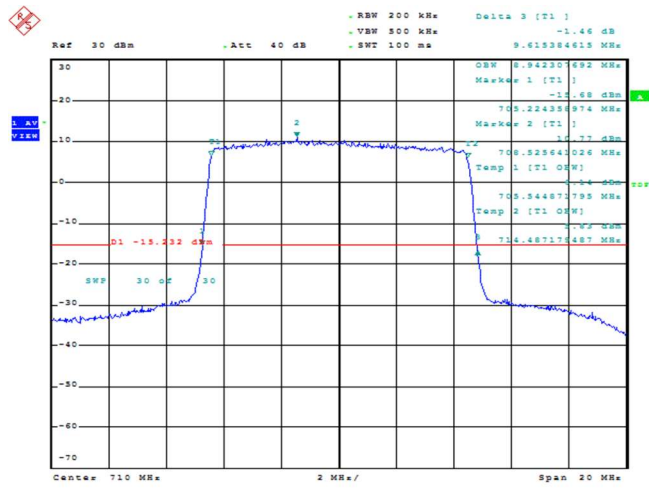
Date: 22.FEB.2022 14:15:20

**Band17-10MHz-QPSK-23800-50RB#0-9.006**



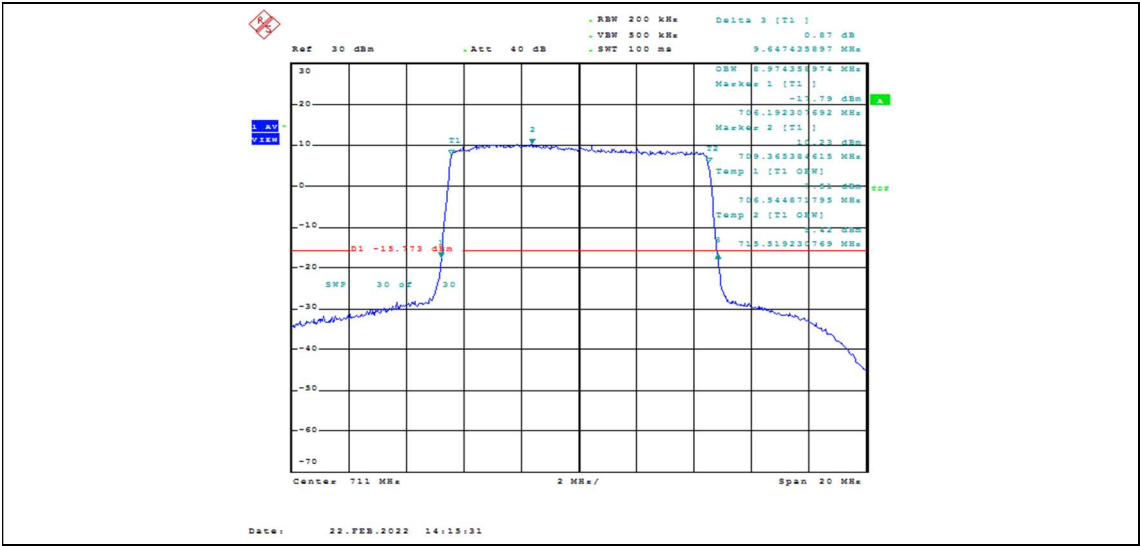
Date: 22.FEB.2022 14:14:39

**Band17-10MHz-16QAM-23780-50RB#0-8.974**



Date: 22.FEB.2022 14:15:05

**Band17-10MHz-16QAM-23790-50RB#0-8.942**



Band17-10MHz-16QAM-23800-50RB#0-8.974

## Appendix D: Band Edge

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm)   | Verdict |
|--------|-----------|------------|---------|------------------|---------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | -18.49        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | -48.87        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | -25.72        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | -48.58        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | -17.53        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | -27.07        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | -21.66        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | -49.25        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | -26.49        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | -48.83        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | -18.21        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | -28.01        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | -27.82,-21.14 | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#49           | -48.49,-48.10 | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | -35.74,-33.72 | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | -48.17,-48.44 | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#49           | -17.80,-24.41 | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | -31.82,-33.97 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | -29.01,-22.57 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#49           | -48.66,-48.62 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | -34.93,-33.30 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#0            | -48.61,-48.63 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#49           | -19.00,-25.76 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | -32.58,-34.25 | PASS    |