



**CTC Laboratories, Inc.**

Room 101 Building B, No. 7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, 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)

## **Appendix for LTE Band 5**

**Applicant: UCLOUDLINK (SINGAPORE) PTE.LTD**

**Address: 80 ROBINSON ROAD #02-00 SINGAPORE**

**Product Name: Smart Travel Adapter**

**Model: GLMX23A04**

**FCC ID: 2BB6E-GLMX23A04**

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# 1 Summary of Test Results Data and Graph

## 1.1. Appendix A: Conducted Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm)  | Verdict |
|-------|-----------|------------|---------|------------------|--------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | <b>22.55</b> | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 21.26        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 22.55        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 21.20        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 22.51        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 21.19        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 22.51        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 21.37        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 22.47        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 21.37        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 22.45        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 21.39        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 21.41        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 20.61        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 22.25        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 21.38        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 22.32        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 21.35        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 22.19        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 21.34        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 22.44        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0            | 21.26        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 22.38        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#1            | 21.15        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 22.38        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#3            | 21.15        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 21.43        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 21.16        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 22.55        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 21.46        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 22.48        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 21.46        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 22.44        | PASS    |

|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5  | 21.50 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#0  | 22.44 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0  | 20.89 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#1  | 22.39 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 20.91 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#3  | 22.44 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 20.88 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | 21.30 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 20.91 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 22.31 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 21.09 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 22.20 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 21.07 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 22.33 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 21.09 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 21.40 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#0  | 20.59 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 21.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#4  | 20.53 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 21.28 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#7  | 20.99 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 21.38 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 20.46 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 22.35 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 20.77 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 22.35 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#8  | 20.76 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 22.33 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#14 | 20.70 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 21.36 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#0  | 20.85 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 21.36 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#4  | 20.86 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 21.14 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#7  | 20.95 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 21.19 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | 20.63 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 22.43 | PASS |

|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0   | 21.54 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#8   | 22.41 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8   | 21.52 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#14  | 22.41 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14  | 21.57 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#0   | 21.38 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0   | 20.81 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#4   | 21.31 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4   | 20.73 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#7   | 21.38 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7   | 20.78 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0  | 21.39 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 20.67 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 22.47 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 20.88 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 22.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 20.73 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 22.41 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 20.84 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 21.46 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0  | 20.44 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 21.43 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6  | 20.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 21.31 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 20.86 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 21.23 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0  | 20.98 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 22.37 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0   | 21.37 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 22.41 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12  | 21.31 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 22.39 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24  | 21.35 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 21.21 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0  | 20.74 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 21.23 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6  | 20.92 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 21.24 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#13 | 20.89 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0  | 21.37 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0  | 20.78 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0   | 22.40 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0   | 20.97 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#12  | 22.38 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#12  | 20.97 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#24  | 22.30 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24  | 21.01 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#0  | 21.42 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#0  | 20.51 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#6  | 21.37 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#6  | 20.59 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#13 | 21.35 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#13 | 20.62 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0  | 21.50 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 20.76 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 22.35 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 21.44 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 22.38 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 21.41 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 22.36 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 21.28 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 21.35 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 20.89 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 21.39 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 20.91 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 21.40 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 20.72 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 21.44 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 20.43 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 22.32 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 21.28 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 22.39 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 21.13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 22.32 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 21.06 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 21.25 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 21.01 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 21.31 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 20.91 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 21.34 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 20.97 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 21.25 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 20.84 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 22.37 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 21.81 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 22.42 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 21.83 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 22.39 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 21.94 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 21.34 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 20.83 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 21.26 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 20.76 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 21.46 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 20.84 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0  | 21.24 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0  | 20.36 | PASS |

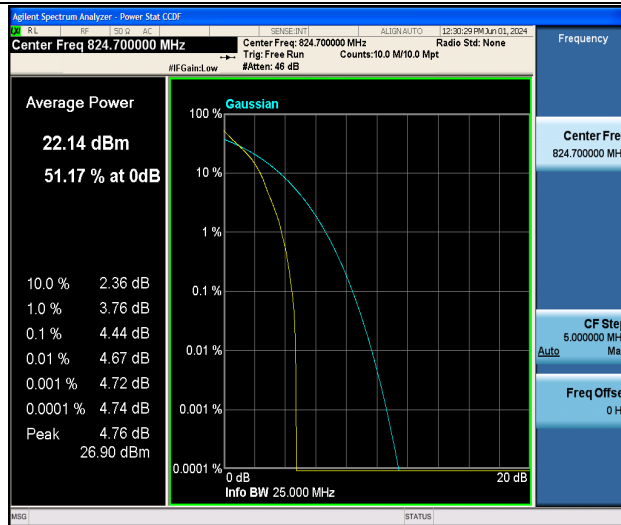
## 1.2. Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

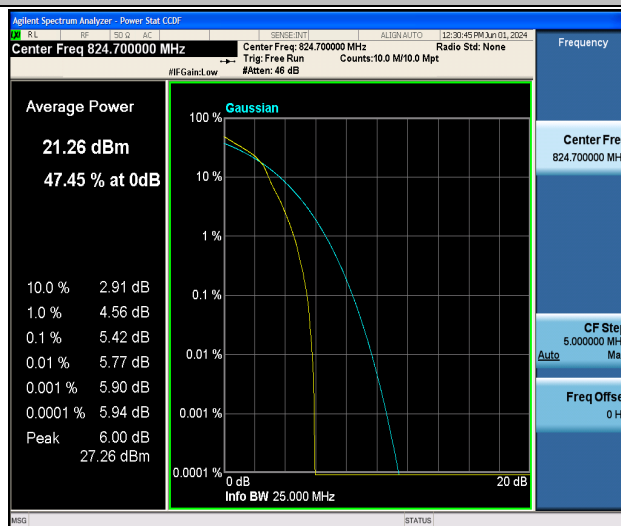
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 4.44       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 5.42       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 4.98       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 5.77       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 5.29       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 6.14       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 5.62       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 6.34       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 4.68       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 5.60       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 5.25       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 5.95       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 4.40       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | 5.42       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 4.96       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 5.78       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | 5.48       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 1RB#0            | 6.47       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 5.65       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 6.41       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | 4.74       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#0            | 5.89       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 5.41       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 6.11       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | 4.36       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | 5.24       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 5.11       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 5.71       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | 5.51       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 1RB#0            | 6.08       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 5.62       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 6.25       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | 4.39       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#0            | 5.26       | 13        | PASS    |

|       |       |       |       |        |      |    |      |
|-------|-------|-------|-------|--------|------|----|------|
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | 5.33 | 13 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | 5.98 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 4.35 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 5.14 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | 5.37 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.13 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 5.40 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 6.34 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 5.56 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.21 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 4.76 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 5.64 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 5.25 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 6.04 | 13 | PASS |

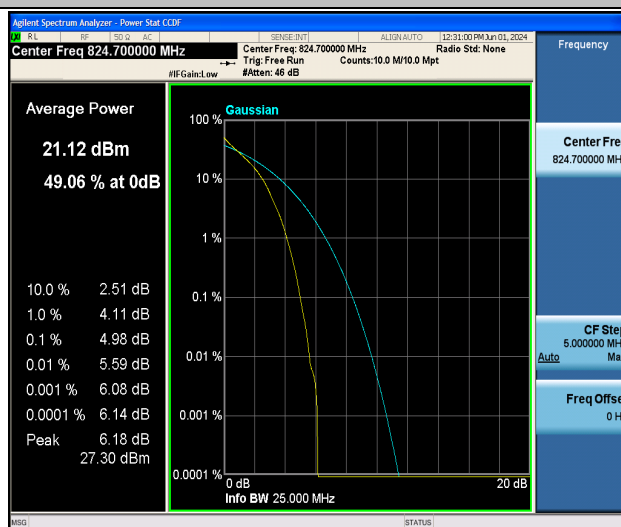
## Test Graphs



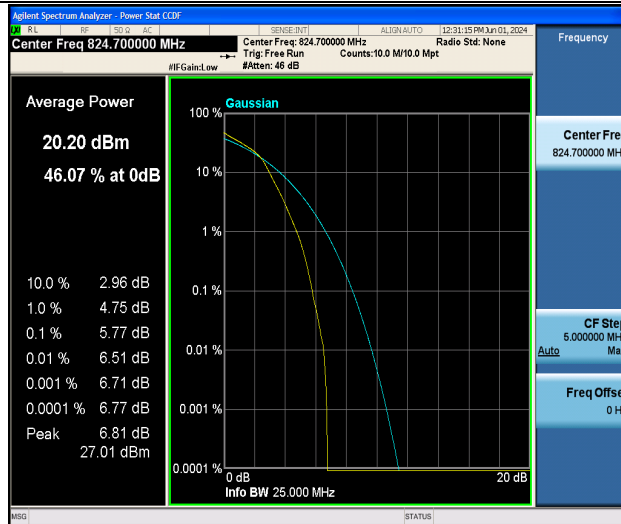
Band5-1.4MHz-QPSK-20407-1RB#0-PASS



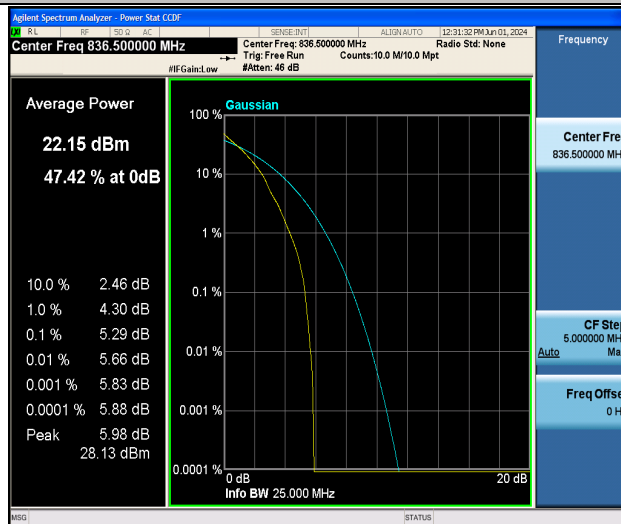
Band5-1.4MHz-16QAM-20407-1RB#0-PASS



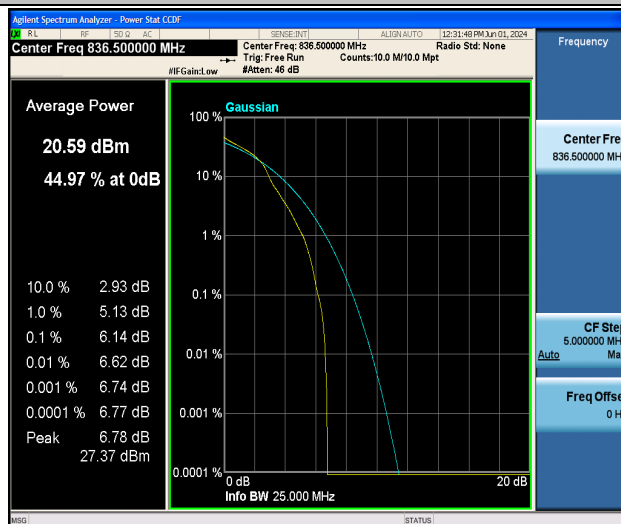
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



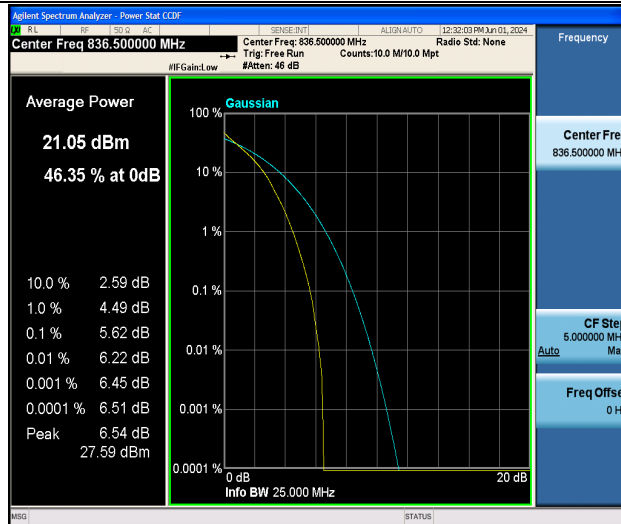
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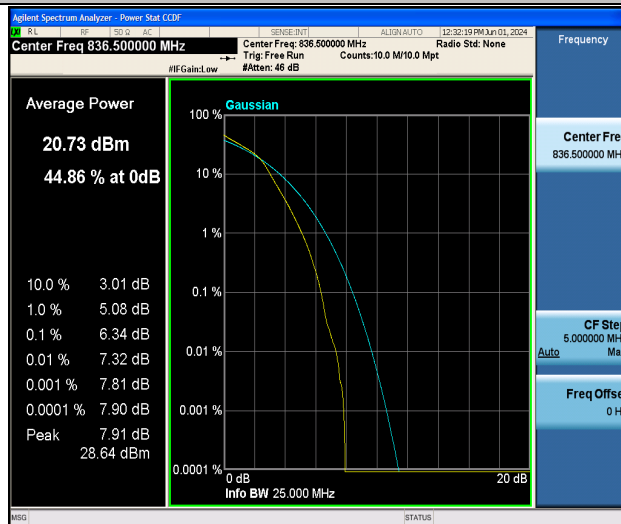
Band5-1.4MHz-QPSK-20525-1RB#0-PASS



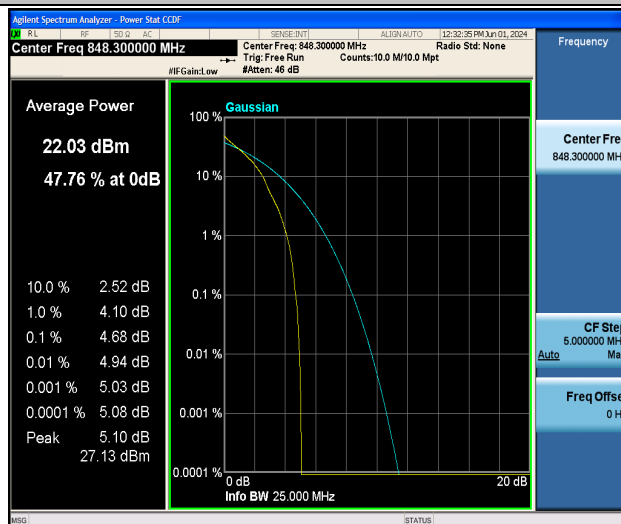
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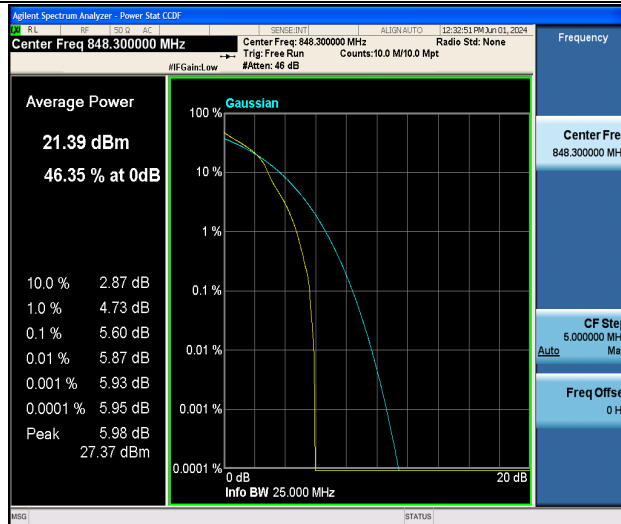
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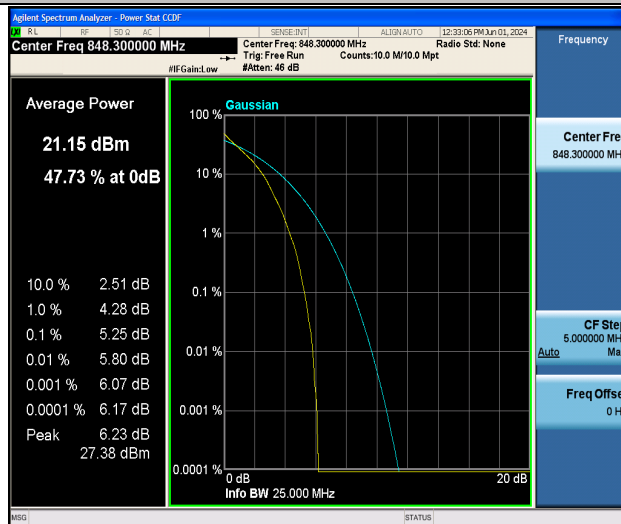
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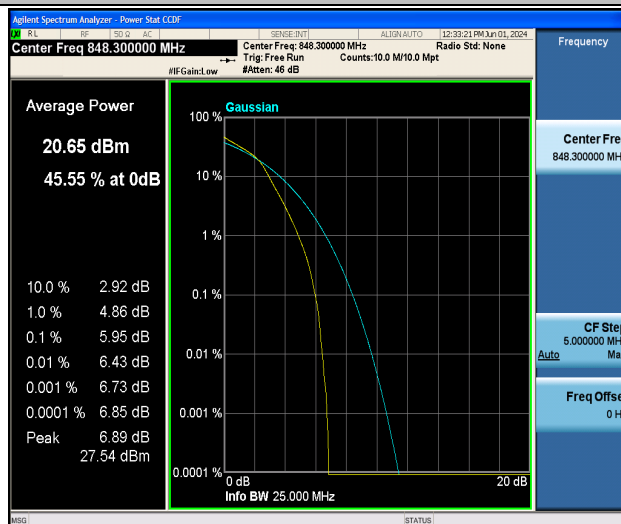
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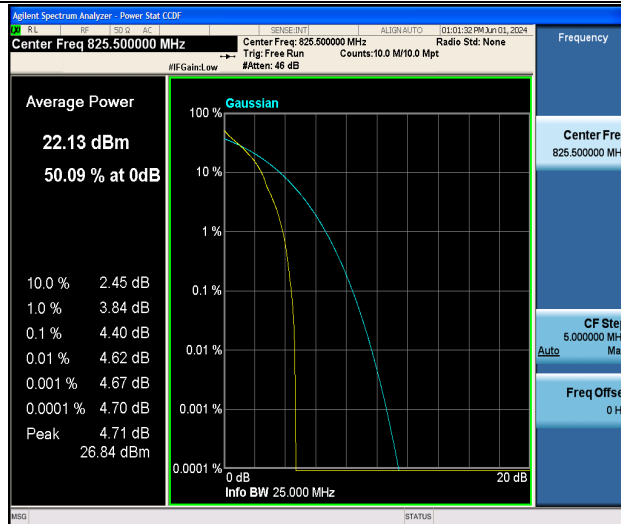
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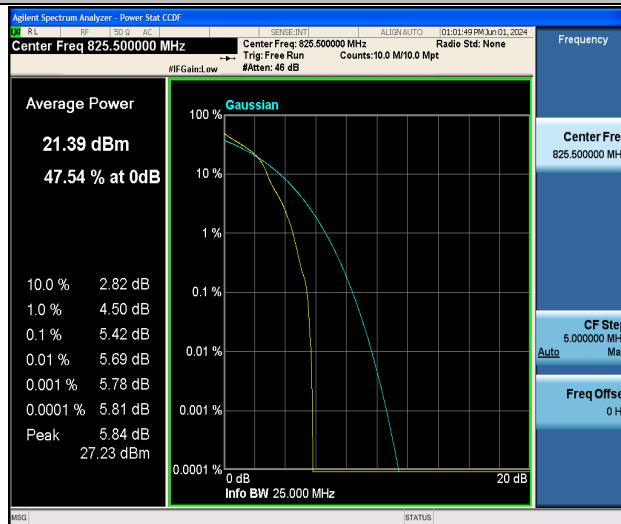
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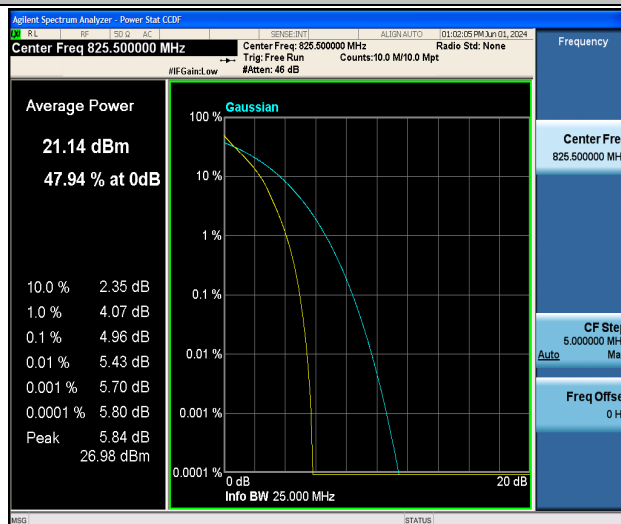
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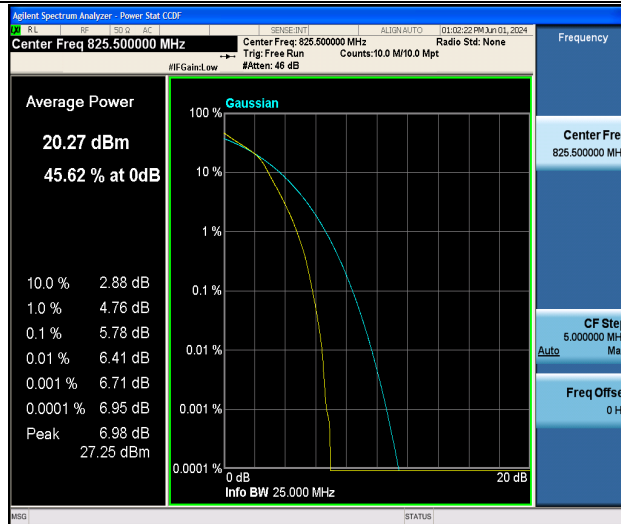
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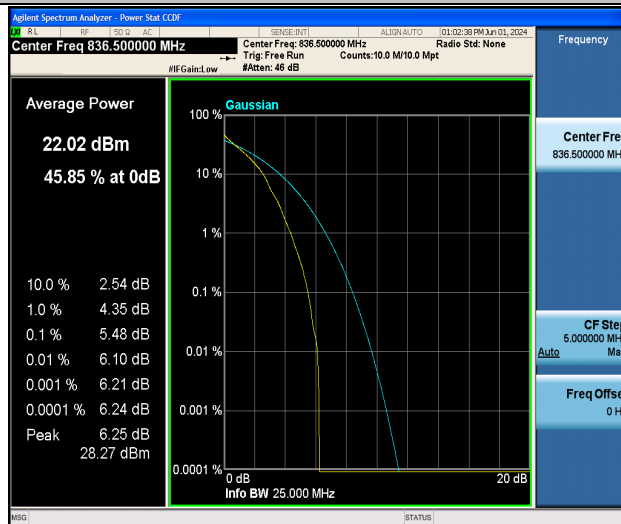
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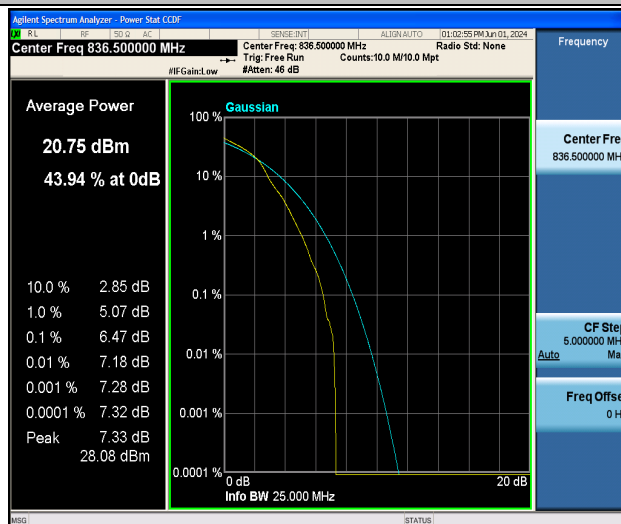
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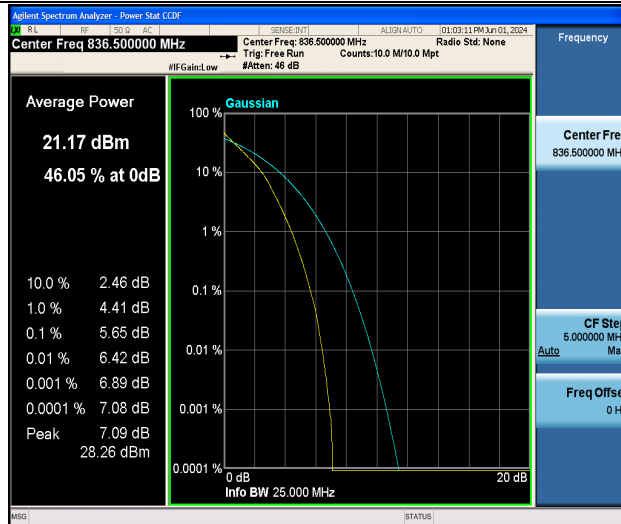
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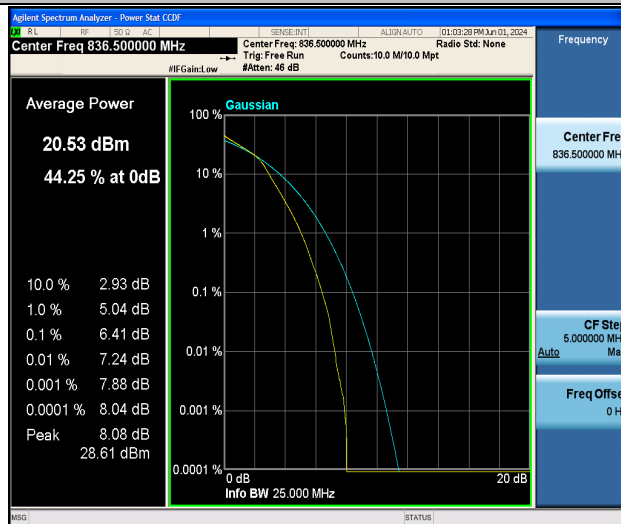
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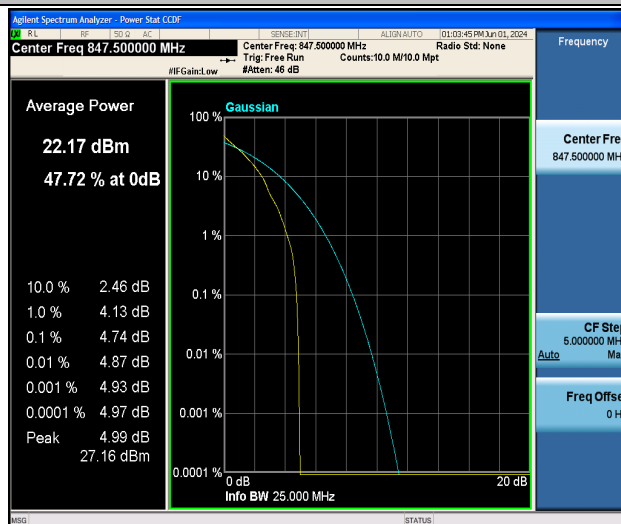
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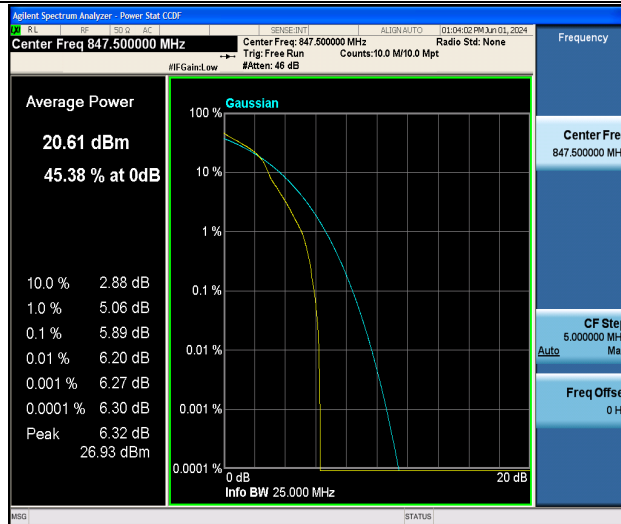
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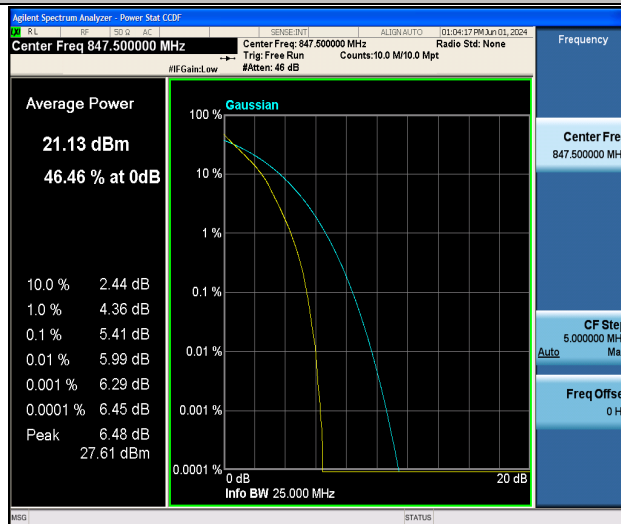
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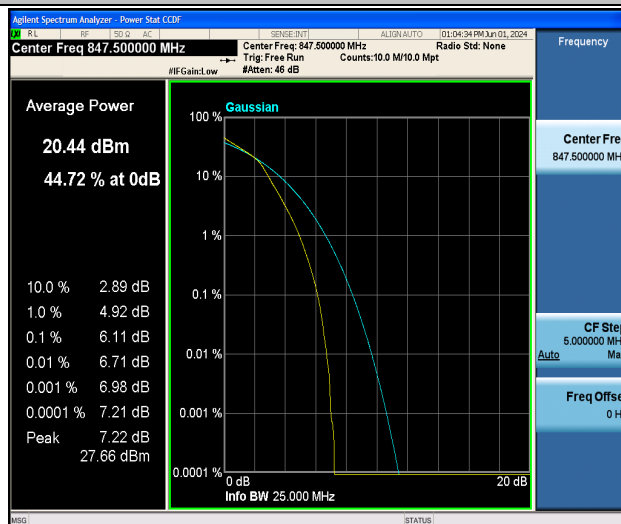
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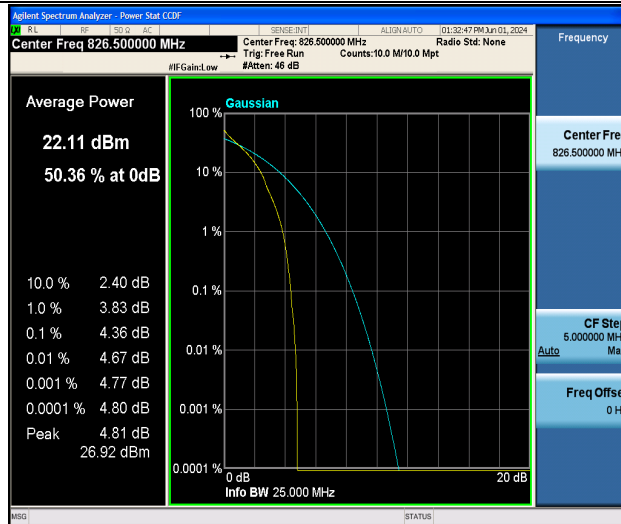
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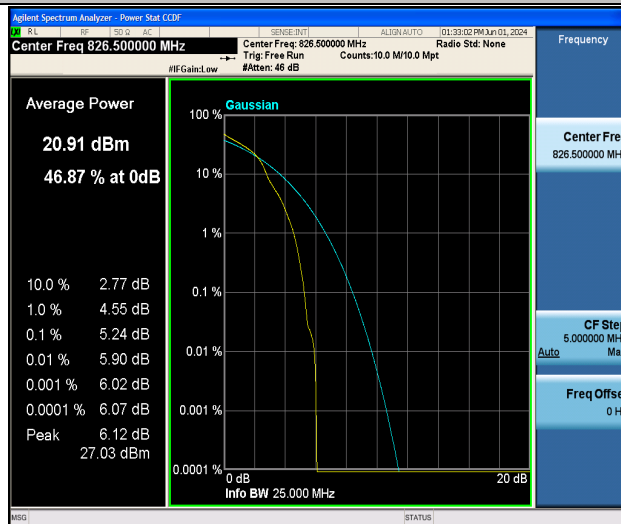
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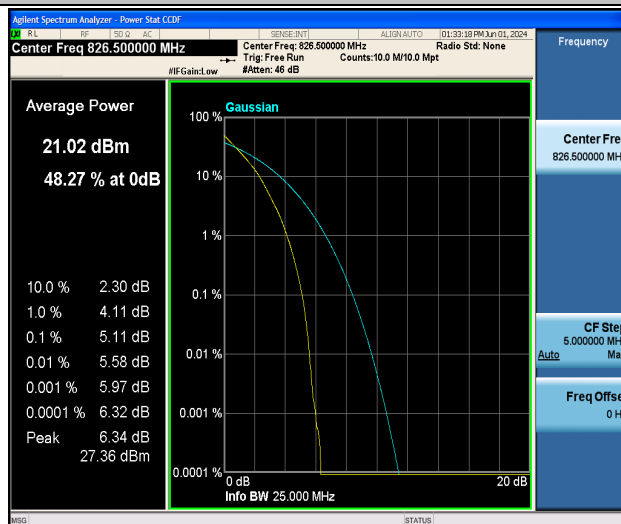
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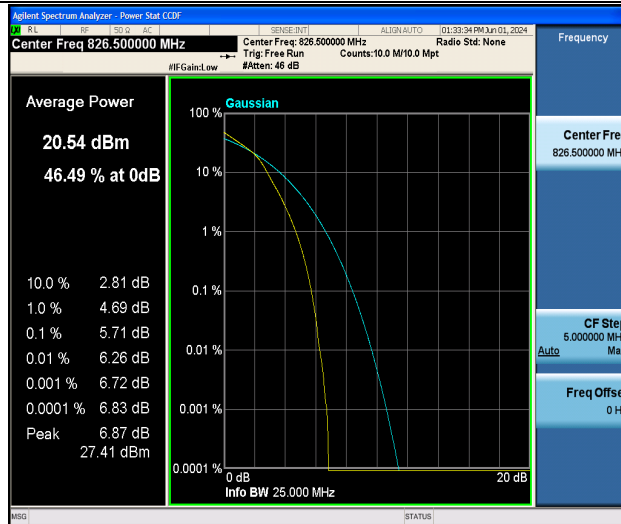
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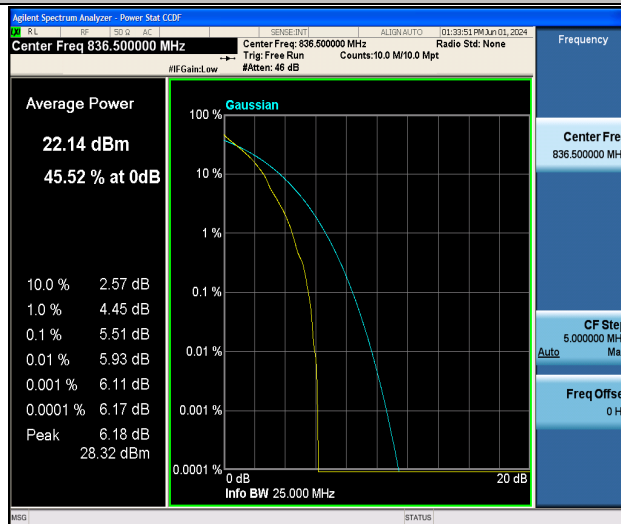
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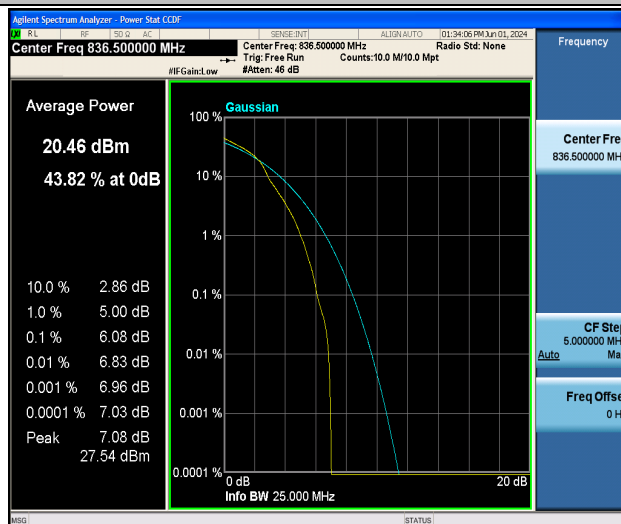
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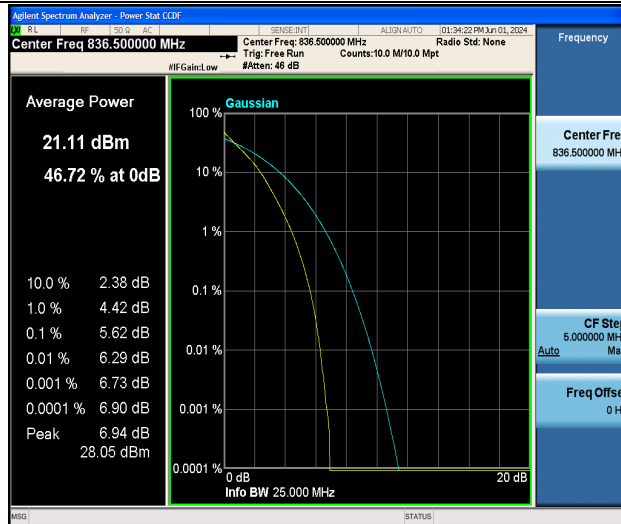
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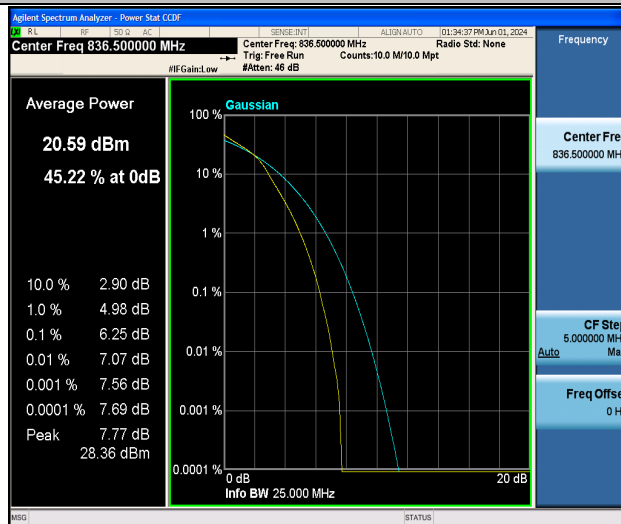
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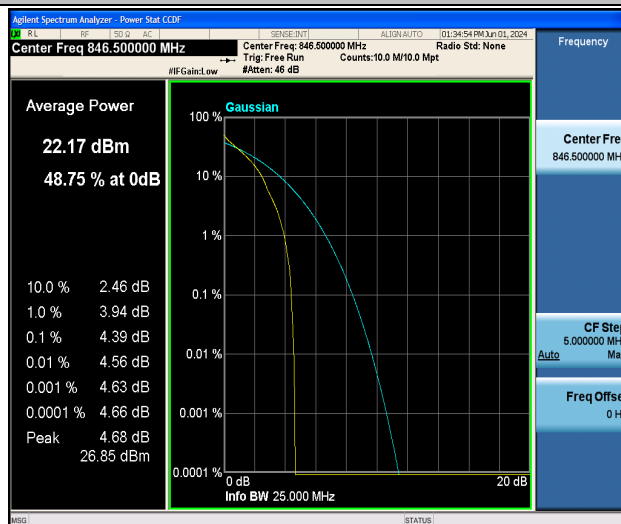
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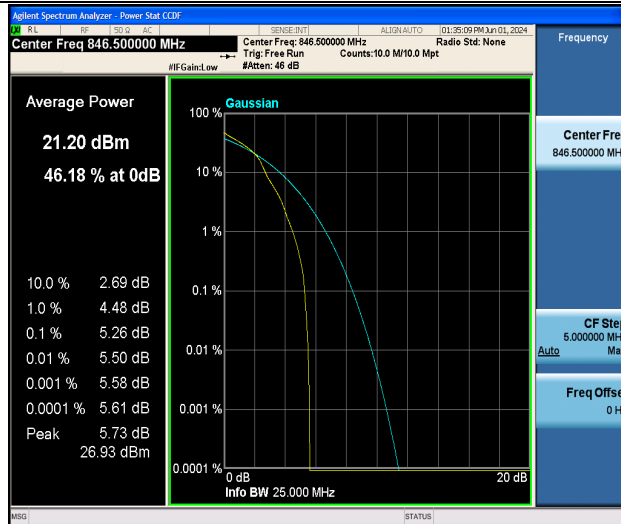
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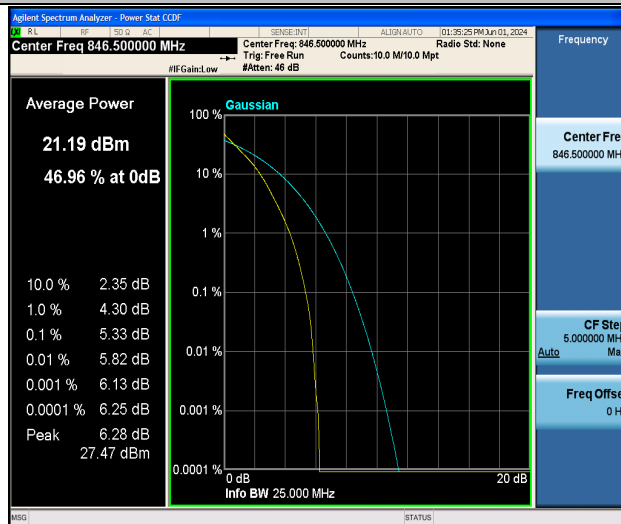
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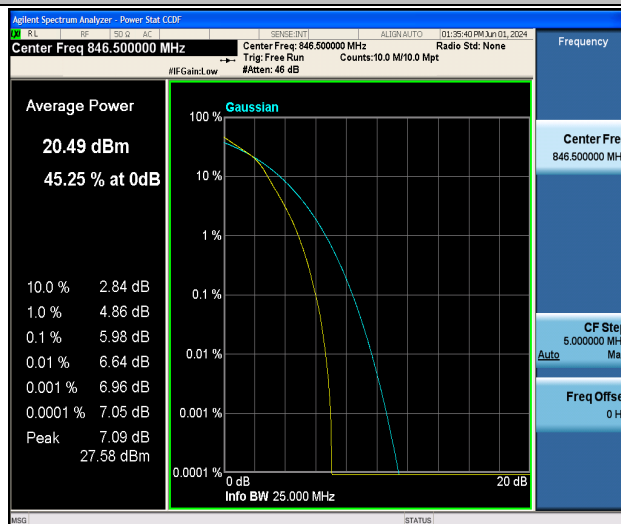
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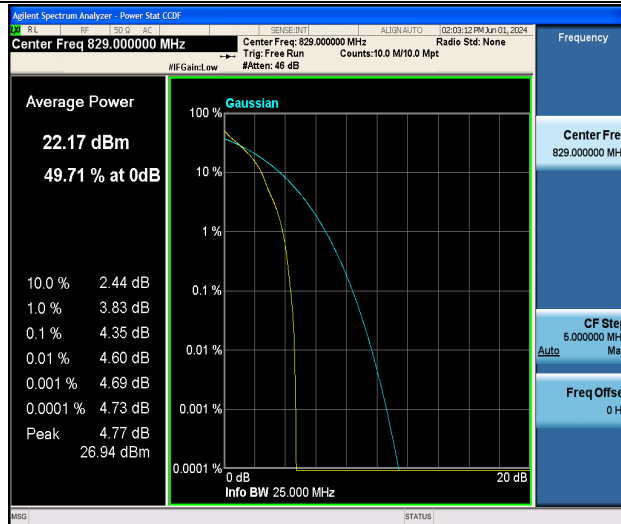
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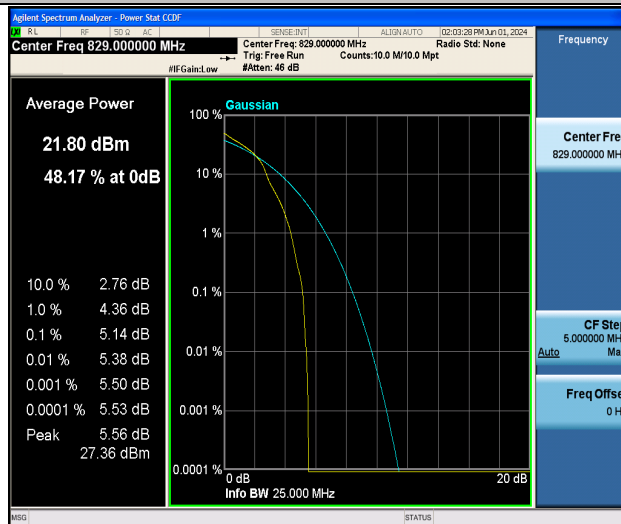
Band5-5MHz-QPSK-20625-25RB#0-PASS



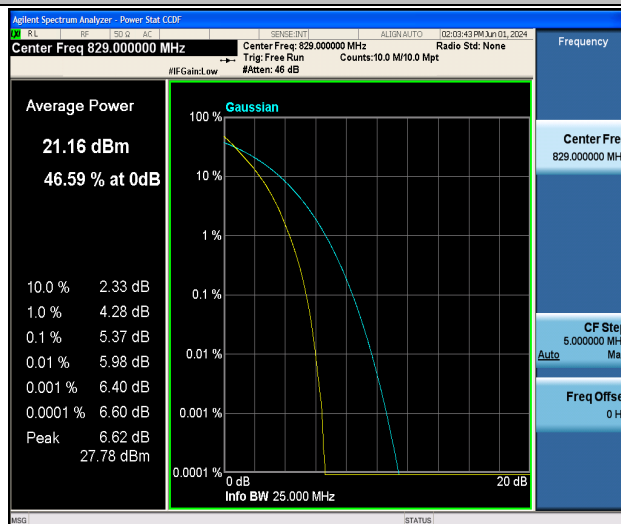
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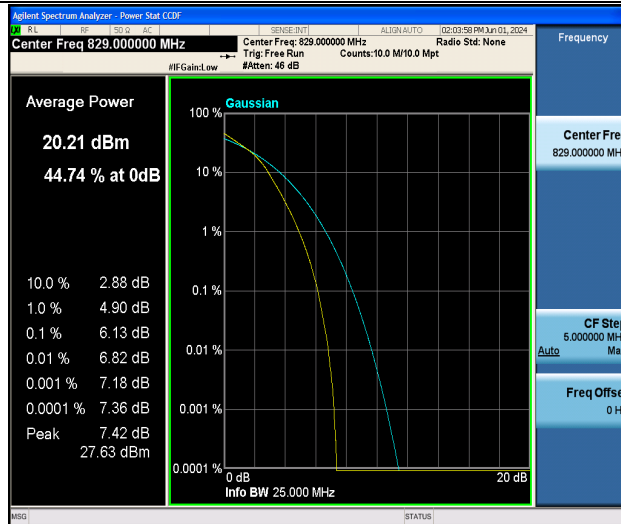
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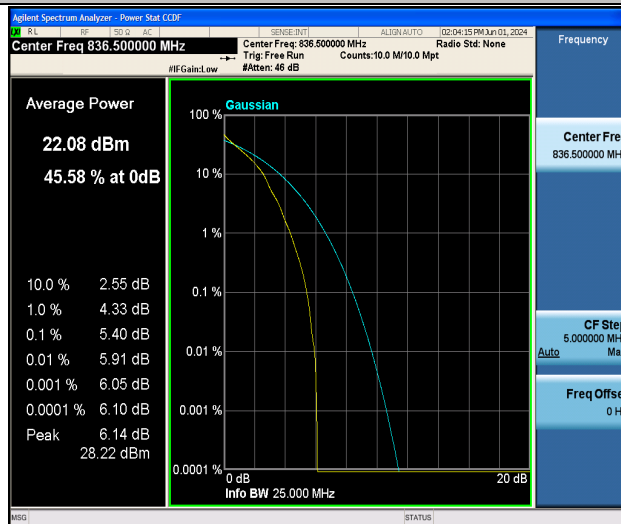
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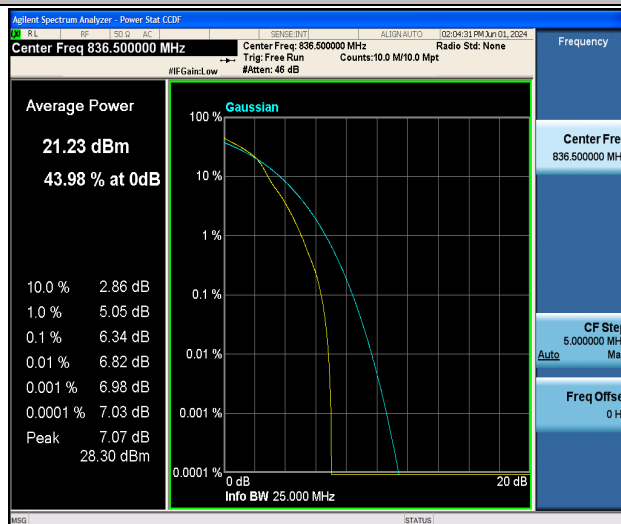
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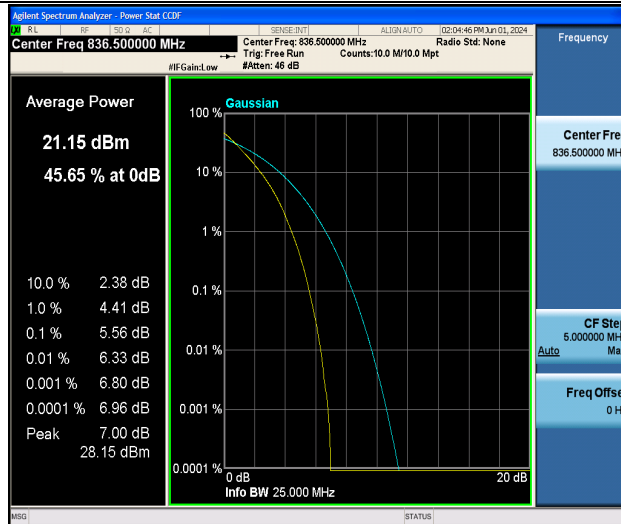
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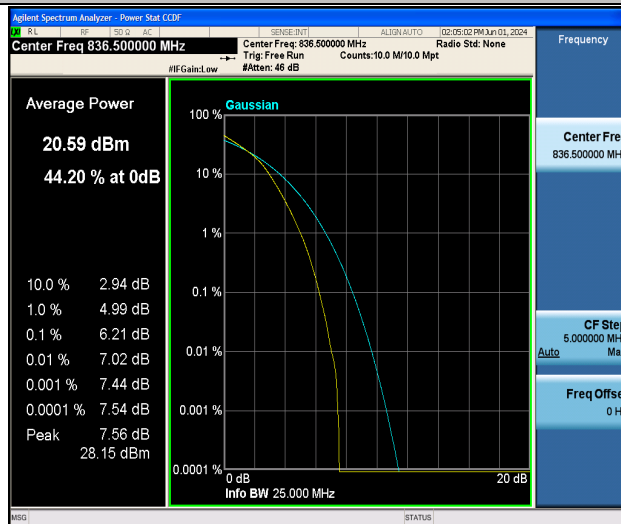
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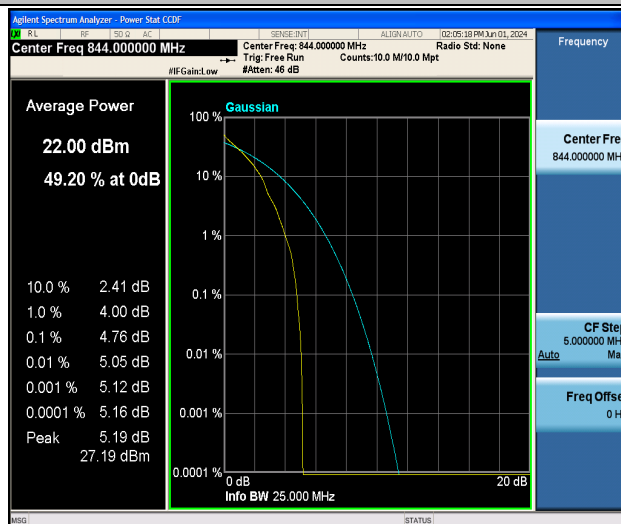
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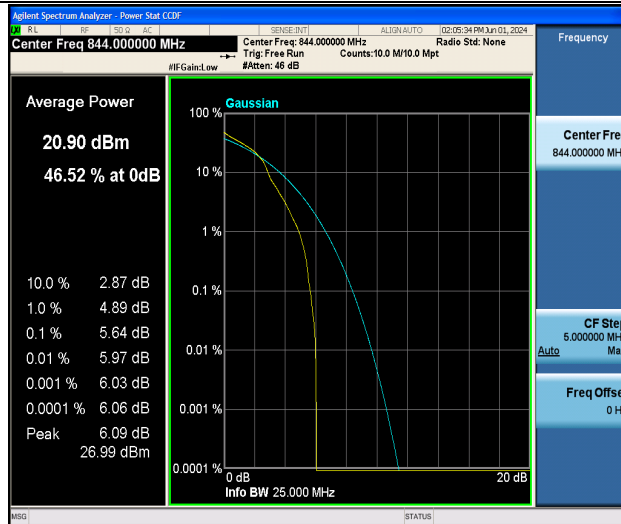
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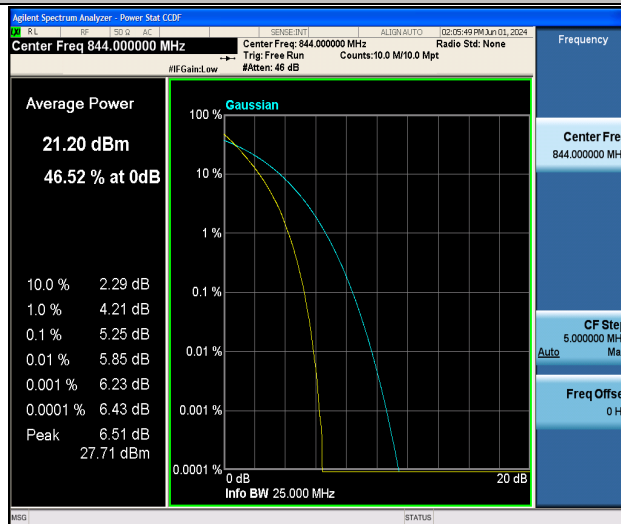
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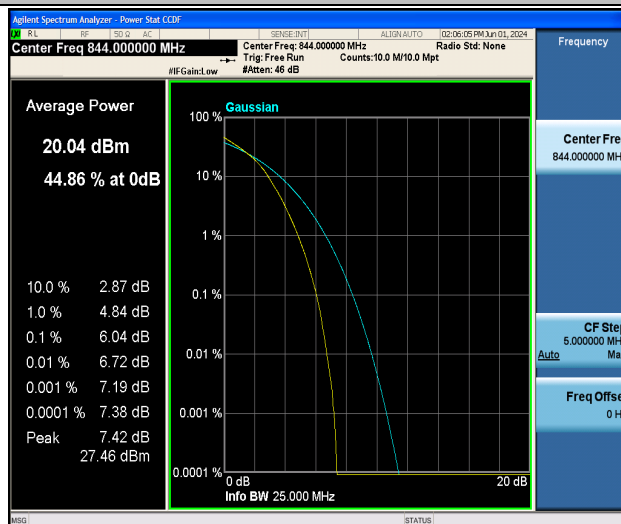
### Band5-10MHz-QPSK-20600-1RB#0-PASS



Band5-10MHz-16QAM-20600-1RB#0-PASS



Band5-10MHz-QPSK-20600-50RB#0-PASS



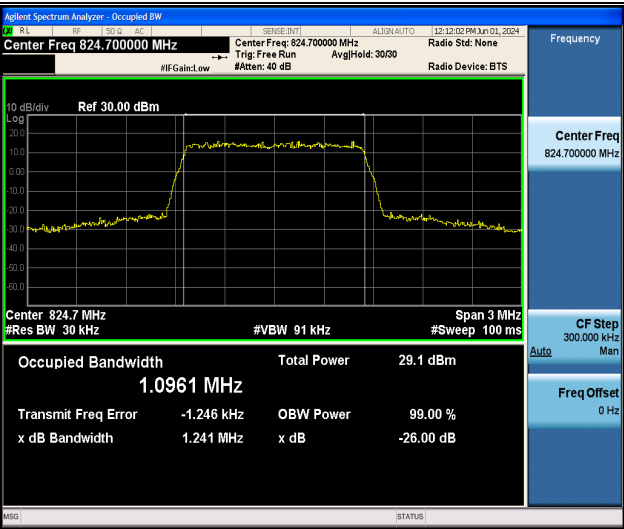
Band5-10MHz-16QAM-20600-50RB#0-PASS

### 1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

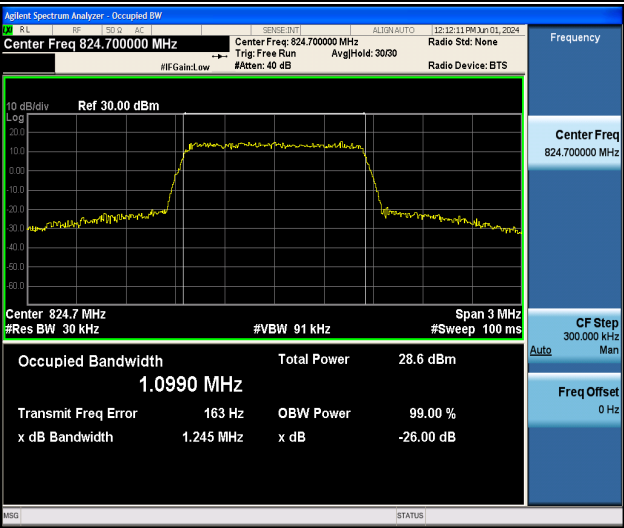
#### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.0961                   | 1.241                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.0990                   | 1.245                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.0988                   | 1.244                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.0900                   | 1.244                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.0913                   | 1.241                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.1027                   | 1.248                | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.7073                   | 3.016                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.6982                   | 3.025                | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.7057                   | 3.026                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.7062                   | 3.050                | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.7167                   | 3.036                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.7083                   | 3.027                | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.4986                   | 4.980                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.4974                   | 4.960                | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.5032                   | 4.991                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.5110                   | 4.977                | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.5169                   | 5.015                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.5366                   | 4.989                | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.9920                   | 9.872                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.9936                   | 9.849                | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 9.0174                   | 9.896                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 9.0097                   | 9.960                | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.9665                   | 9.787                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 8.9821                   | 9.880                | PASS    |

Test Graphs



Band5-1.4MHz-QPSK-20407-6RB#0-PASS



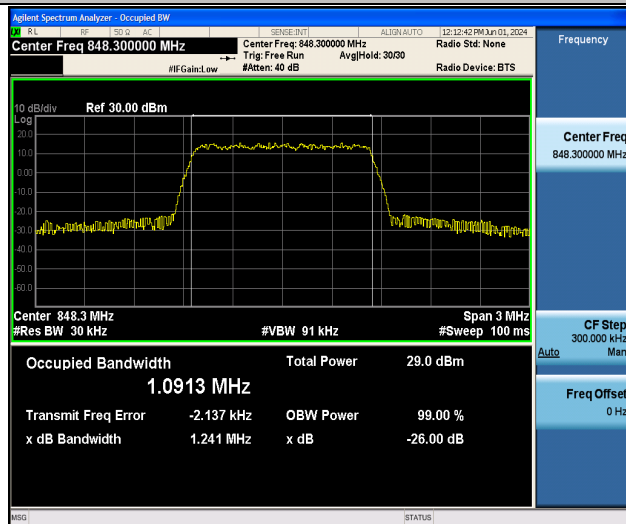
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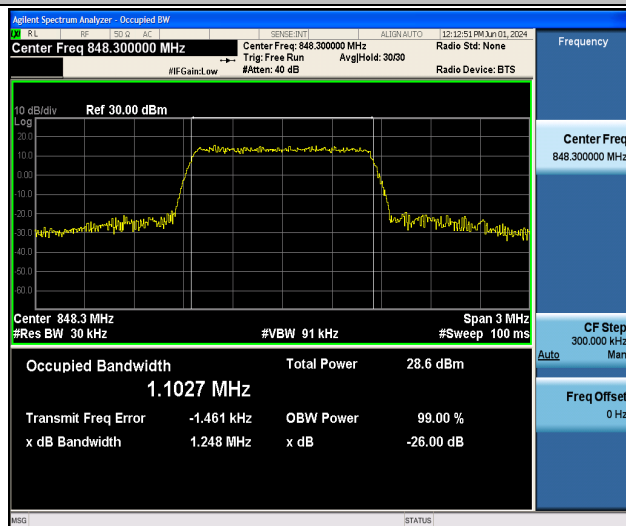
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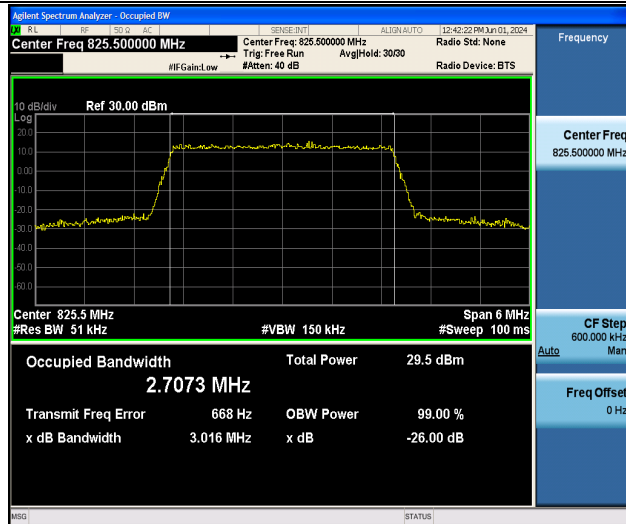
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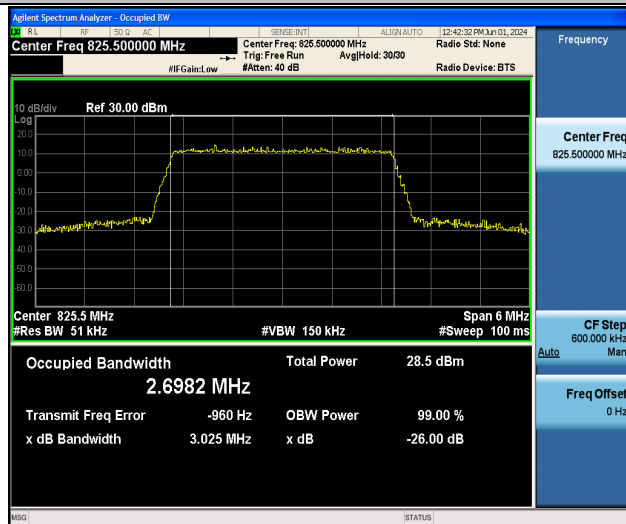
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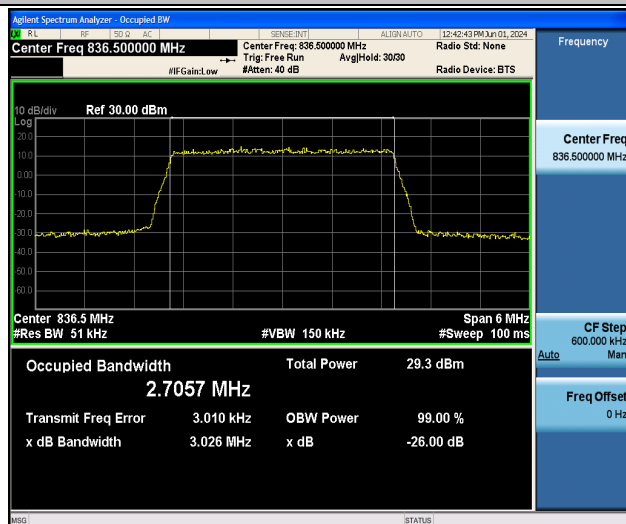
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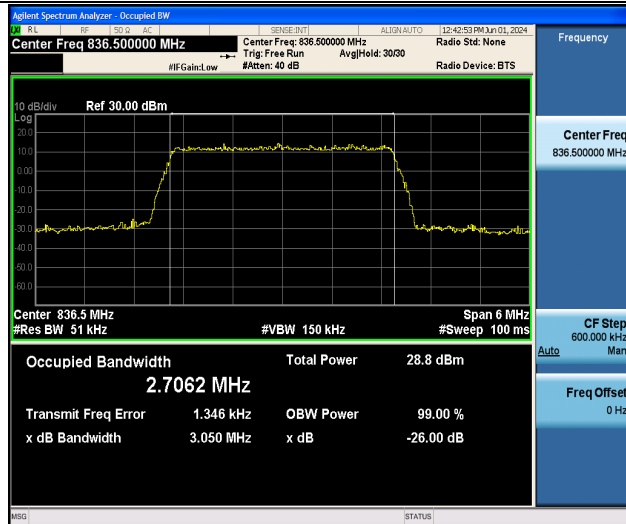
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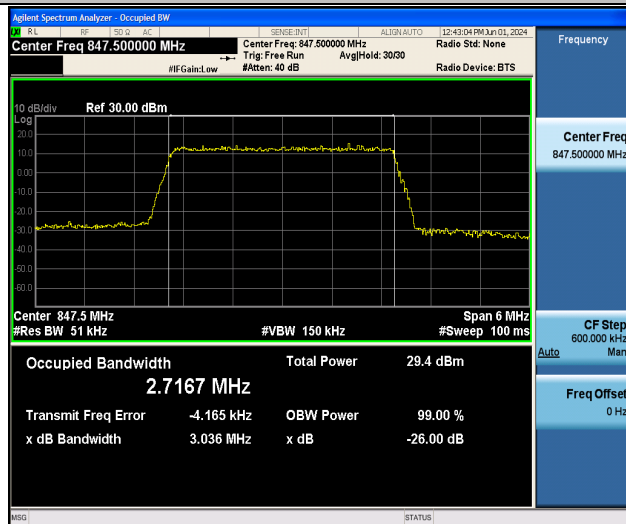
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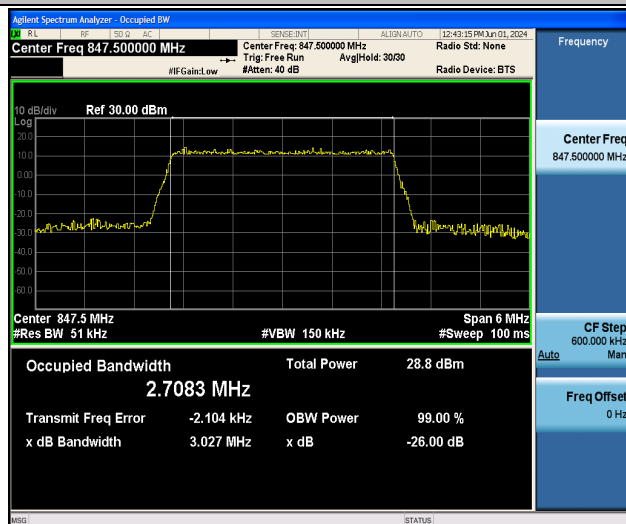
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### Band5-3MHz-16QAM-20525-15RB#0-PASS



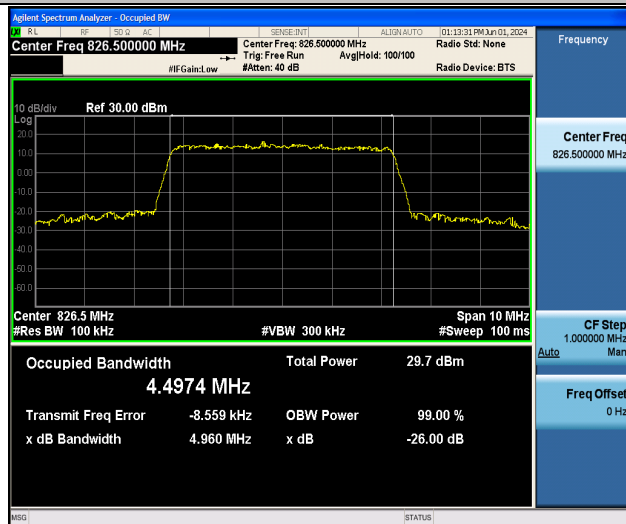
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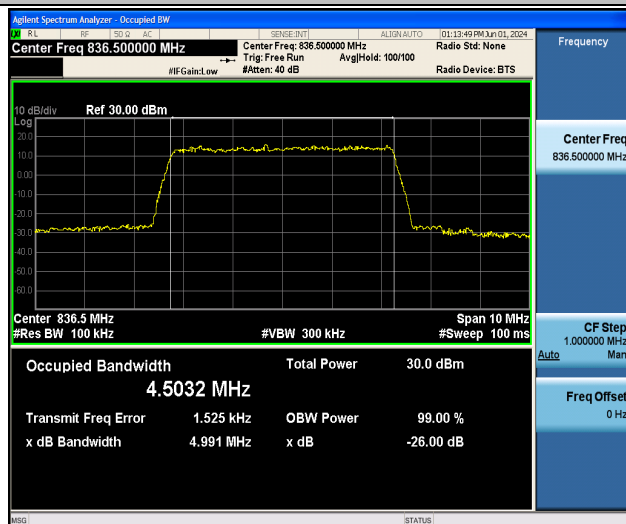
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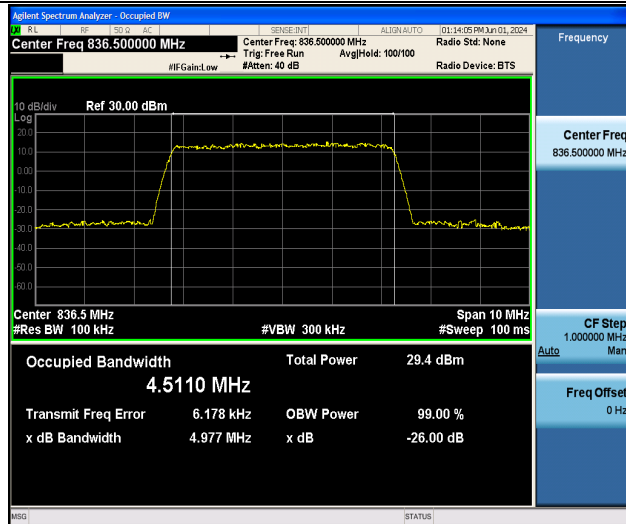
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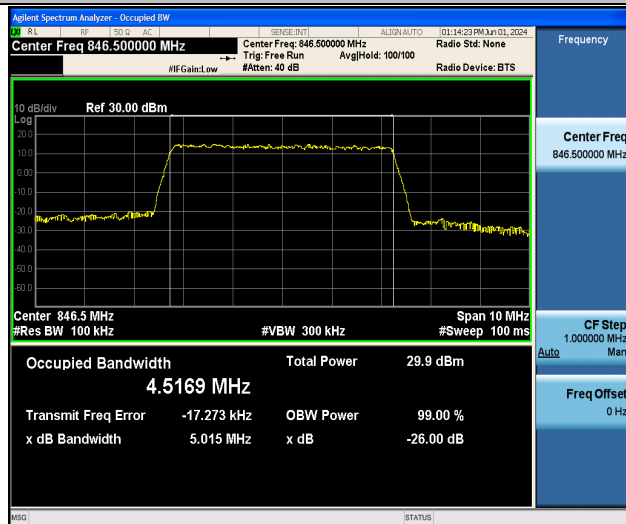
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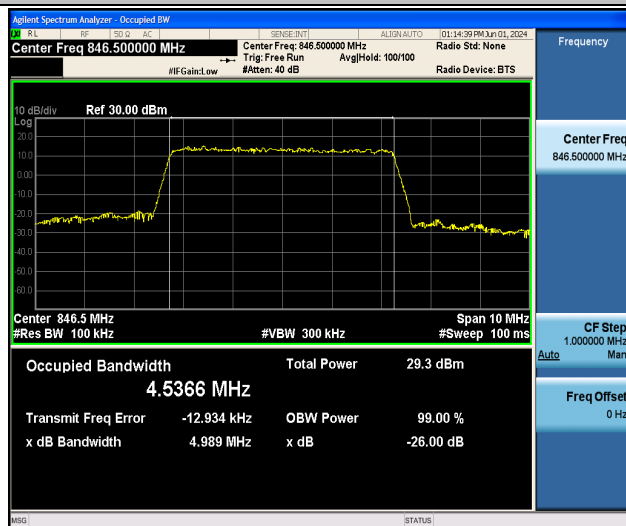
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### Band5-5MHz-16QAM-20525-25RB#0-PASS



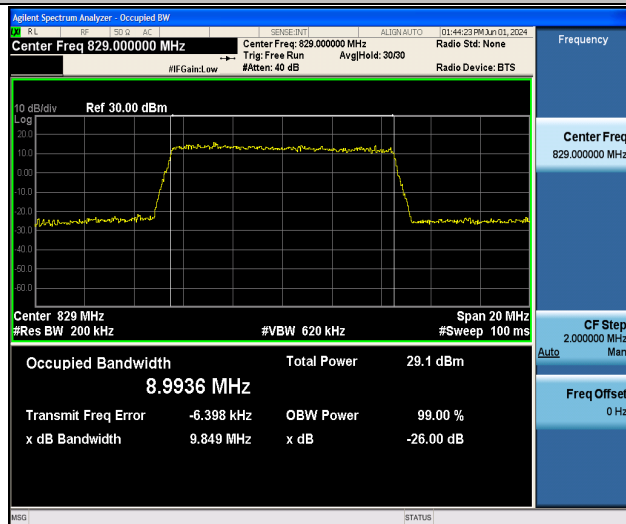
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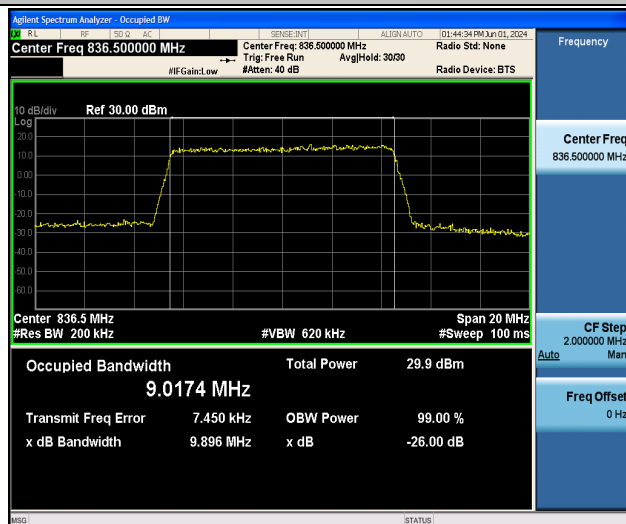
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### Band5-10MHz-QPSK-20450-50RB#0-PASS



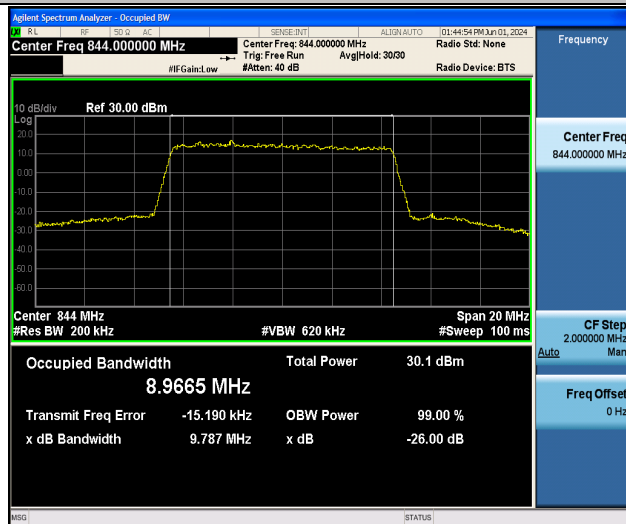
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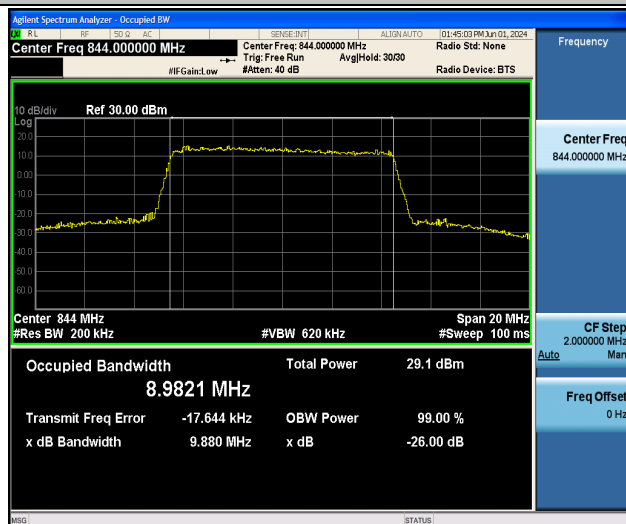
### Band5-10MHz-QPSK-20525-50RB#0-PASS



Band5-10MHz-16QAM-20525-50RB#0-PASS



Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20600-50RB#0-PASS

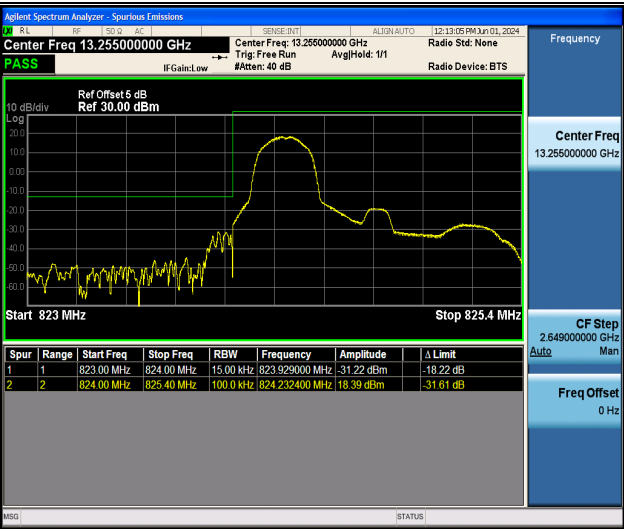
## 1.4. Appendix D: Band Edge

### Test Result

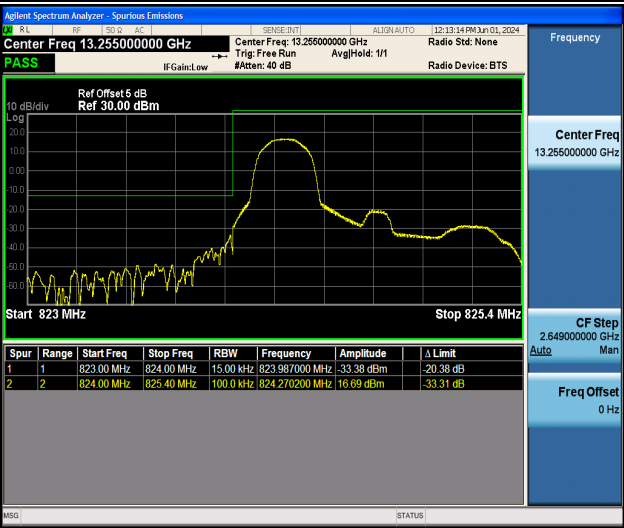
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | -31.22      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | -33.38      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | -37.48      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | -38.00      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | -30.16      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | -33.22      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | -34.67      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | -33.99      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | -35.73      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | -36.76      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | -37.96      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | -35.66      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | -20.57      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | -22.41      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#14           | -35.02      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#14           | -36.72      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | -30.16      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | -31.63      | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | -35.97      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#0            | -37.90      | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#14           | -20.98      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#14           | -24.32      | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | -32.26      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | -33.55      | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | -29.38      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | -31.00      | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#24           | -46.83      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#24           | -47.81      | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | -35.65      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | -35.41      | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | -48.02      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#0            | -50.41      | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#24           | -29.90      | PASS    |

|       |       |       |       |        |        |      |
|-------|-------|-------|-------|--------|--------|------|
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24 | -30.88 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | -37.99 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | -38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | -39.05 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | -39.56 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49 | -51.86 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | -51.95 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | -38.05 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | -39.29 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | -54.19 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | -54.76 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49 | -38.92 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | -39.79 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | -37.09 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | -39.62 | PASS |

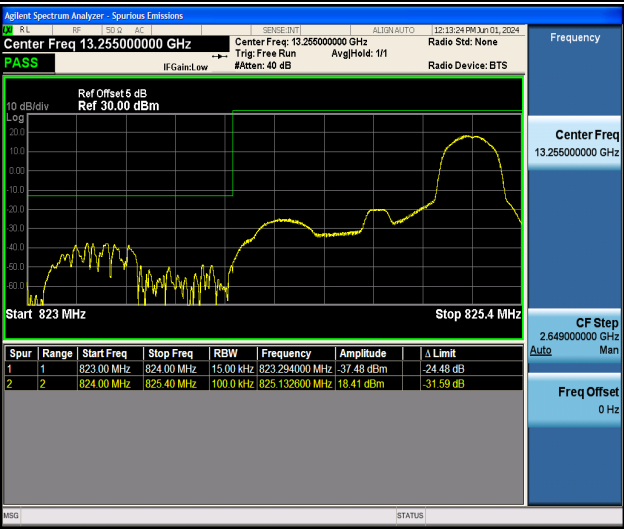
Test Graphs



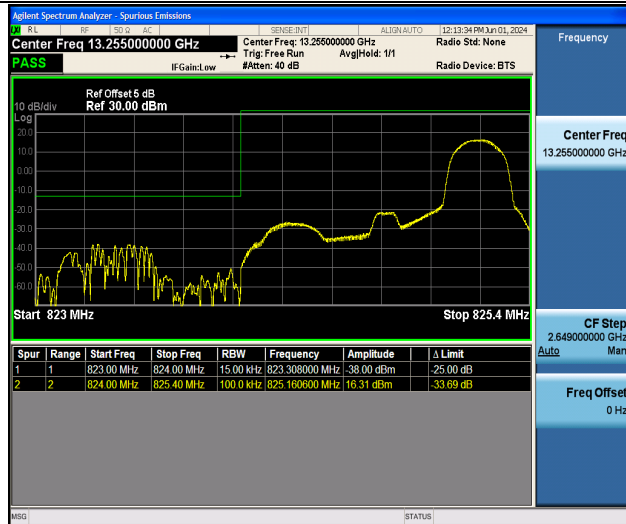
Band5\_1.4MHz\_QPSK\_20407\_1RB#0



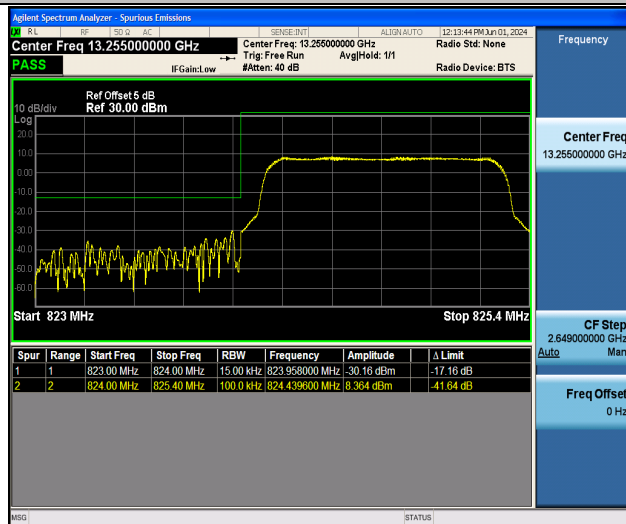
Band5\_1.4MHz\_16QAM\_20407\_1RB#0



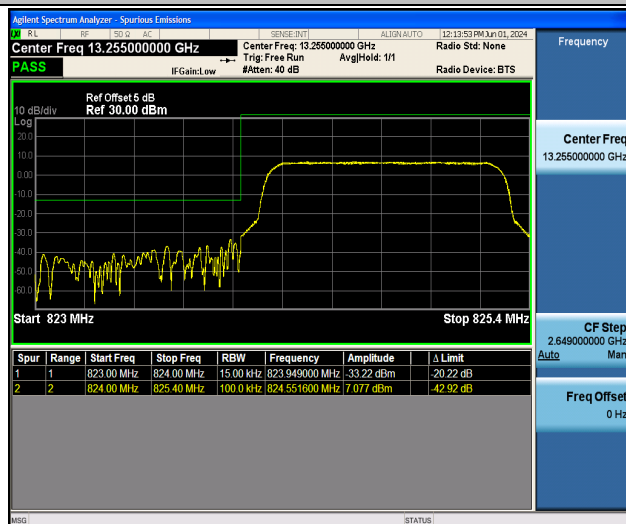
Band5\_1.4MHz\_QPSK\_20407\_1RB#5



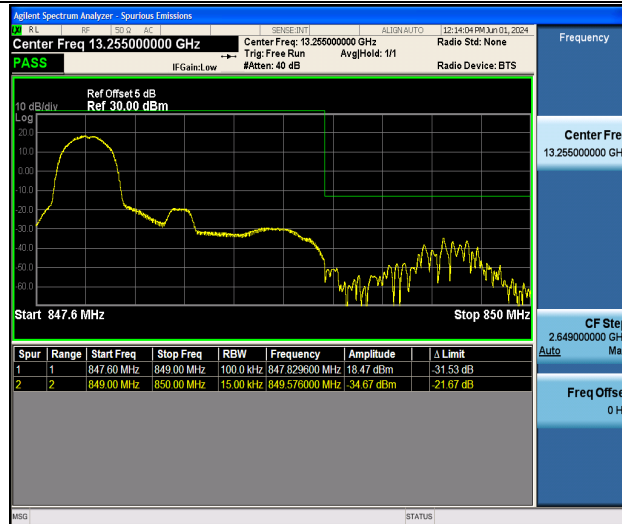
Band5\_1.4MHz\_16QAM\_20407\_1RB#5



Band5\_1.4MHz\_QPSK\_20407\_6RB#0



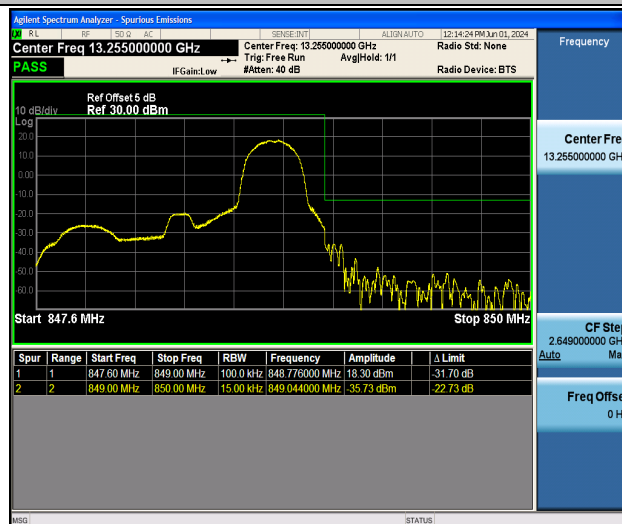
Band5\_1.4MHz\_16QAM\_20407\_6RB#0



### Band5\_1.4MHz\_QPSK\_20643\_1RB#0



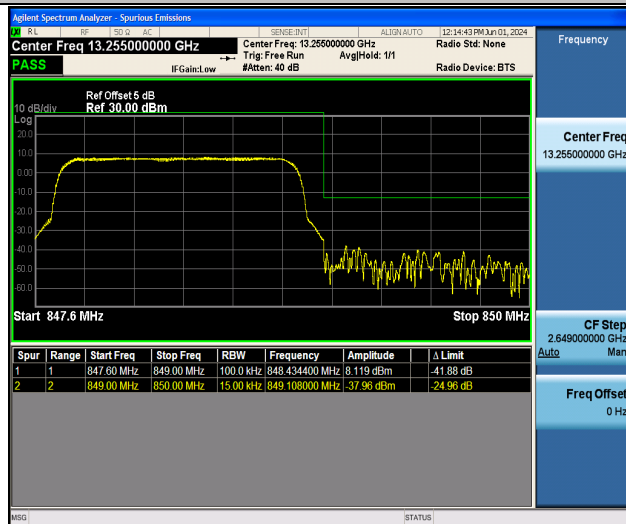
### Band5\_1.4MHz\_16QAM\_20643\_1RB#0



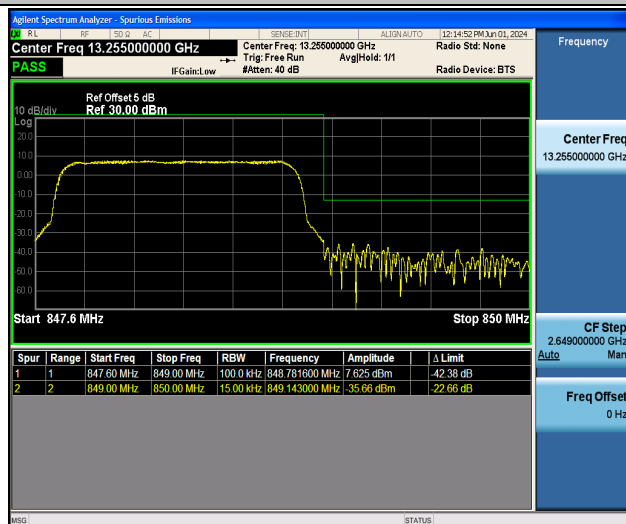
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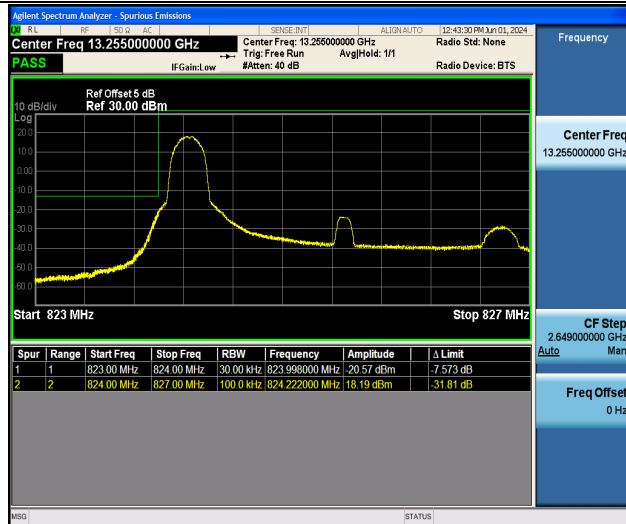
Band5\_1.4MHz\_16QAM\_20643\_1RB#5



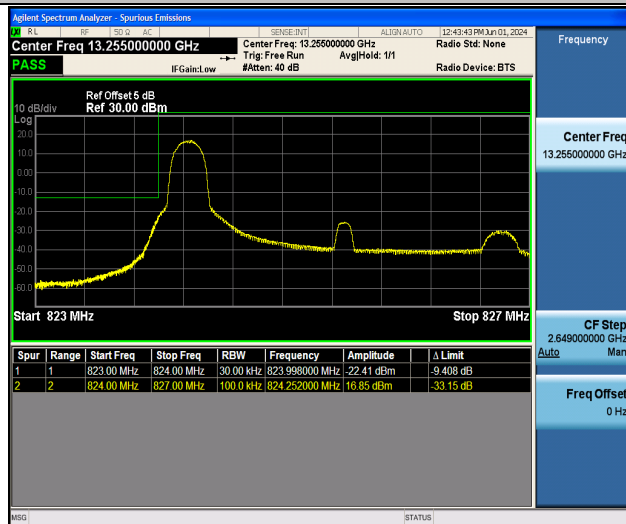
Band5\_1.4MHz\_QPSK\_20643\_6RB#0



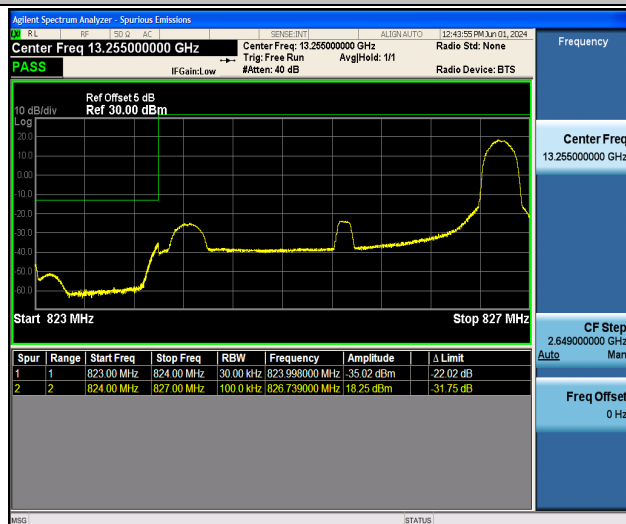
Band5\_1.4MHz\_16QAM\_20643\_6RB#0



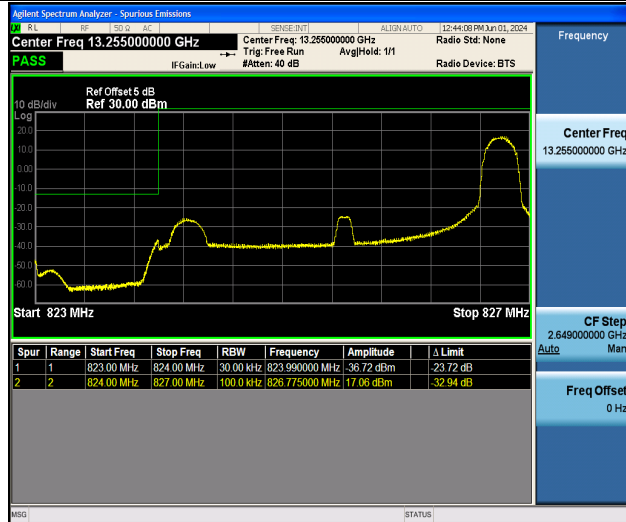
### Band5\_3MHz\_QPSK\_20415\_1RB#0



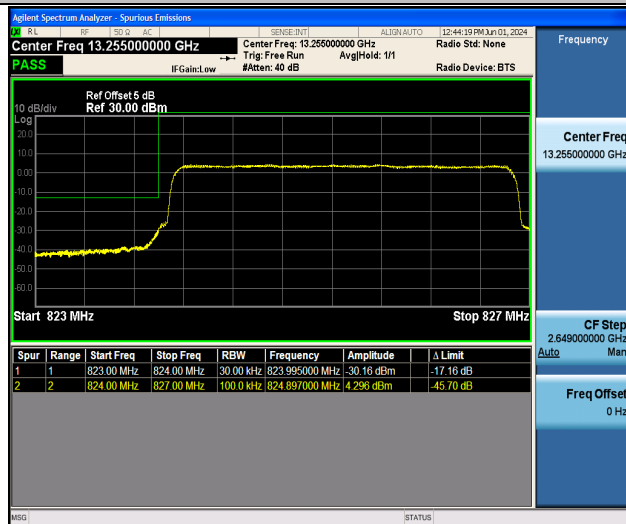
### Band5\_3MHz\_16QAM\_20415\_1RB#0



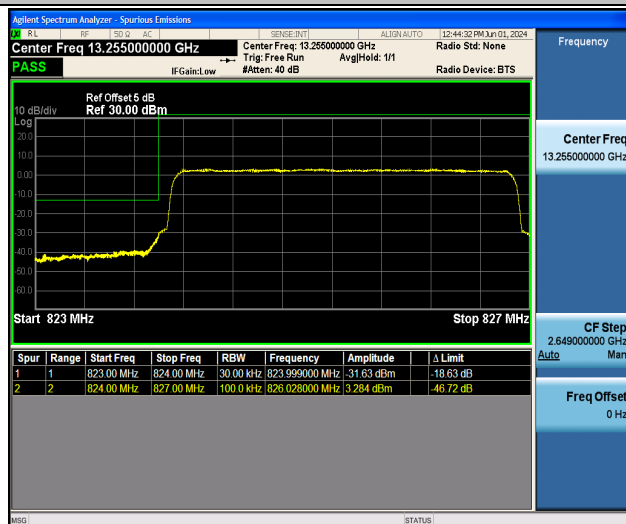
### Band5\_3MHz\_QPSK\_20415\_1RB#14



Band5\_3MHz\_16QAM\_20415\_1RB#14



Band5\_3MHz\_QPSK\_20415\_15RB#0



Band5\_3MHz\_16QAM\_20415\_15RB#0