# Appendix C Test Data for E-UTRA Band 5

**Product Name: LTE 4G USB DONGLE**

**Test Model: IH500**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 22.4° C |
| Relative Humidity: | 53.3% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Ling Zhu |
| Supervised by: | Li Huan |

# C.1 Effective (Isotropic) Radiated Power Output Data

## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.81 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.84 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.68 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 23.87 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 23.84 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.43 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.80 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 23.74 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.67 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.78 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 23.85 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 24.05 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 23.92 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.96 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.74 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.85 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 24.03 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 23.92 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.89 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 23.91 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.94 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 23.01 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 23.00 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.47 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 22.53 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 22.60 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 22.24 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 22.01 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 22.76 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 23.20 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 22.99 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 22.67 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 22.64 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 22.42 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.90 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.51 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.92 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 22.81 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 22.84 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 22.83 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 22.88 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.89 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.73 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 23.66 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.72 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 22.47 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 22.53 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 22.48 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.55 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.47 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 23.79 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 23.50 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 22.69 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 22.65 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 22.71 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.76 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.49 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.37 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.55 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 22.44 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.54 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.60 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.47 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 22.54 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 22.55 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.48 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.63 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 21.53 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 21.38 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.50 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 22.68 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 22.74 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.24 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 21.73 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.68 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 21.84 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.62 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 22.37 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.60 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.32 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 21.68 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 21.63 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 21.59 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.40 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.70 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.78 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.46 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 22.65 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 22.77 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 22.69 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.75 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.87 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 23.88 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 23.75 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.89 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 22.88 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 22.87 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.90 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.65 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 23.82 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.74 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 22.75 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 22.70 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.83 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.76 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 22.51 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.84 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 22.57 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 21.88 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 21.70 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.80 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.71 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 22.70 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.80 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 22.58 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 21.91 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 21.80 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.87 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.83 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 22.75 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 22.64 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 22.67 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.64 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 21.80 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.82 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.81 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.42 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.68 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.66 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.87 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 22.87 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 22.97 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.96 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 23.88 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 24.21 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.69 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 23.02 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 23.00 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.87 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.99 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.65 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.78 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.60 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 22.94 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 22.93 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.97 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.87 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 22.60 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.83 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.50 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0 | 21.96 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.87 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.92 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.82 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 23.03 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 23.90 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.68 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0 | 22.06 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 22.03 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.91 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.93 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 22.77 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 23.05 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.78 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0 | 21.94 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.93 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.89 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.97 | PASS |

## C.2 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 | 4.55 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 5.16 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 4.41 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 5.02 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 3.90 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 4.60 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 5.63 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 6.00 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 5.44 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 6.02 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 4.65 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 5.49 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 4.72 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 5.32 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 4.46 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 5.17 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 4.03 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 4.74 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 5.60 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 6.24 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 5.32 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 6.08 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 4.93 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 5.61 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 4.43 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 5.14 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 4.31 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 5.02 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 4.04 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.73 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 5.46 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 5.97 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 5.36 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 5.85 | 13 | PASS |

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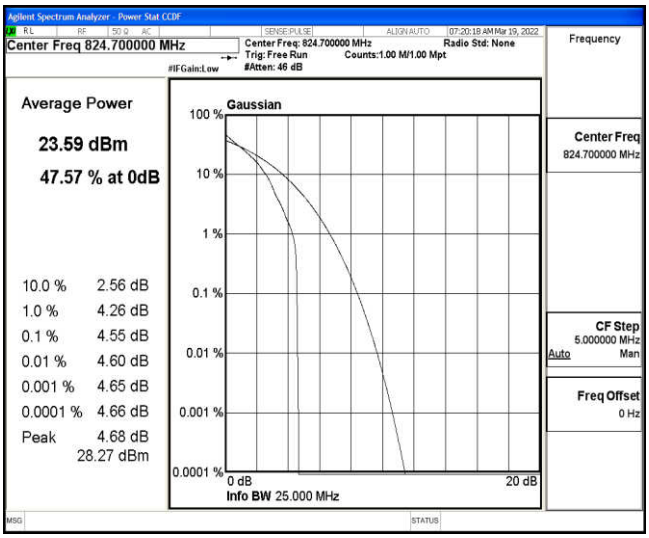
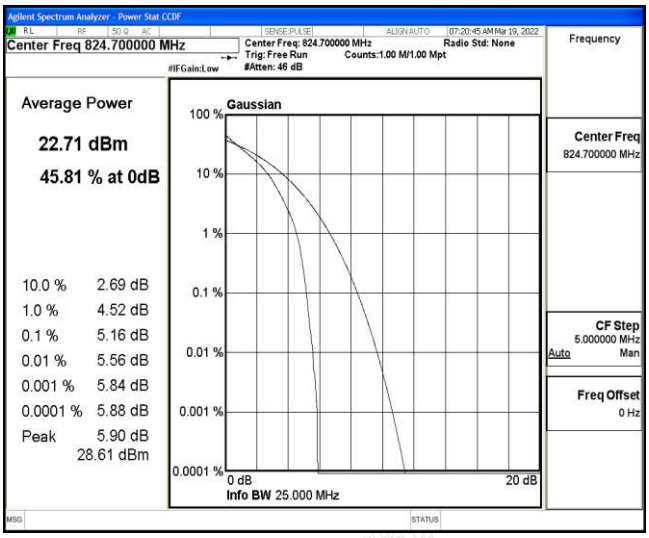
|---|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 4.91 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 5.61 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 4.48 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 5.11 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 4.37 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 5.07 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 4.29 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 4.87 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 5.38 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.04 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 5.15 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 5.95 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 5.31 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.82 | 13 | PASS |

## Test Graphs

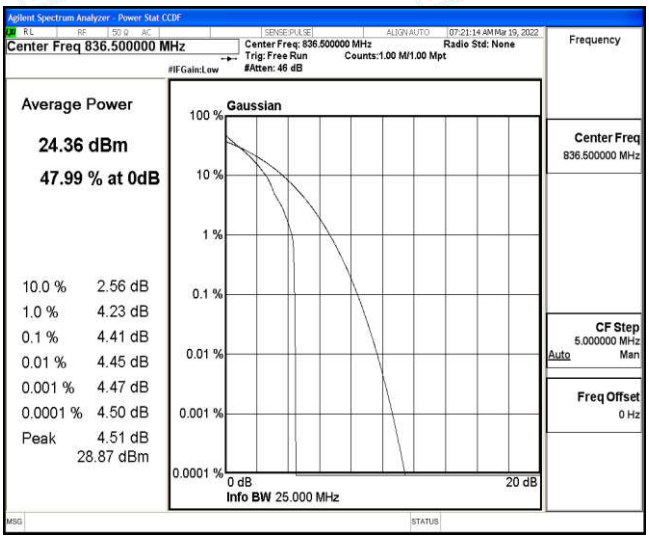
Band5-1.4MHz-QPSK-20407-1RB#0



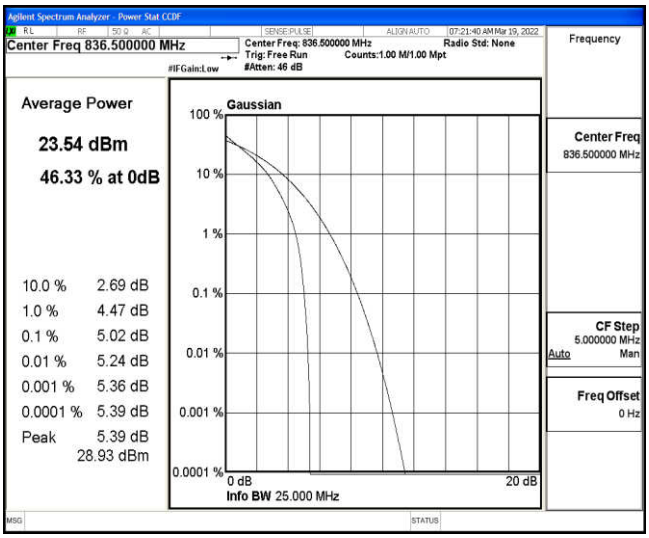

Band5-1.4MHz-QPSK-20407-6RB#0



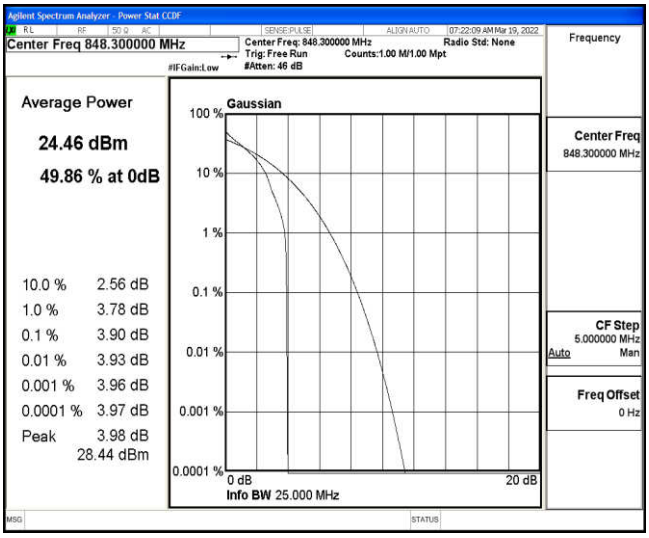

Band5-1.4MHz-QPSK-20525-1RB#0



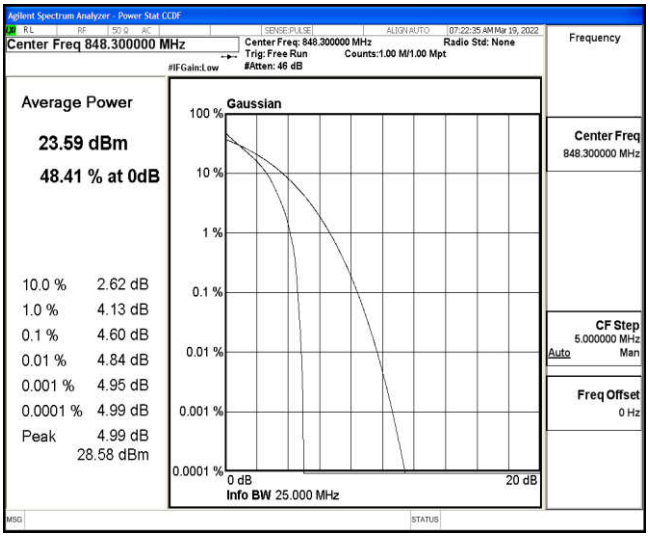

Band5-1.4MHz-QPSK-20525-6RB#0



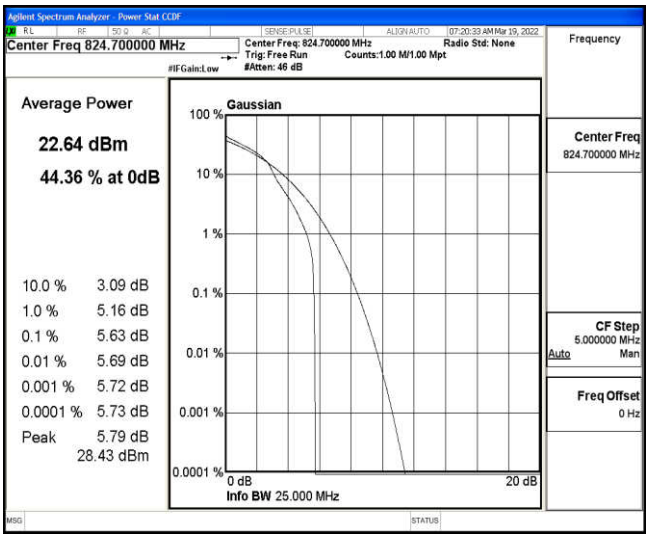

Band5-1.4MHz-QPSK-20643-1RB#0



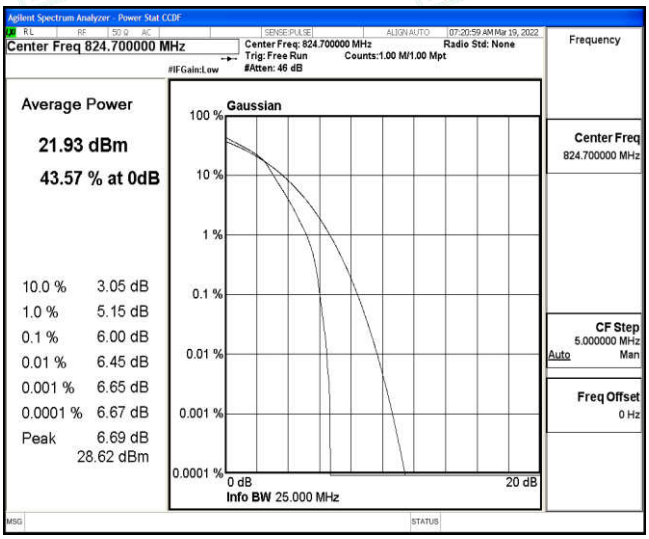
Band5-1.4MHz-QPSK-20643-6RB#0



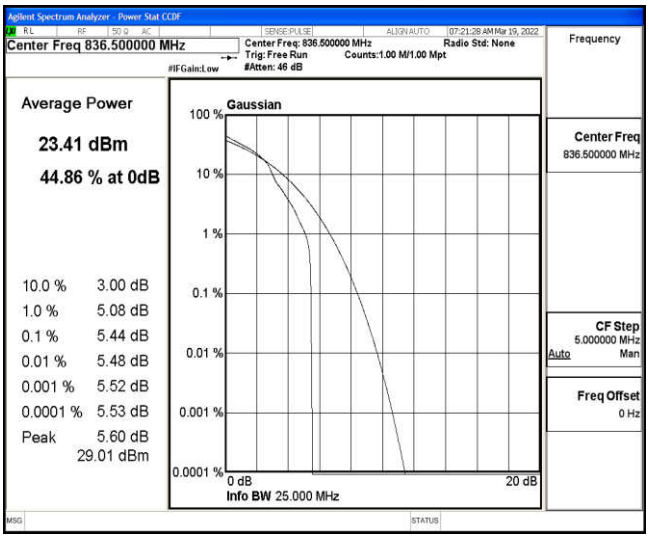

Band5-1.4MHz-16QAM-20407-1RB#0



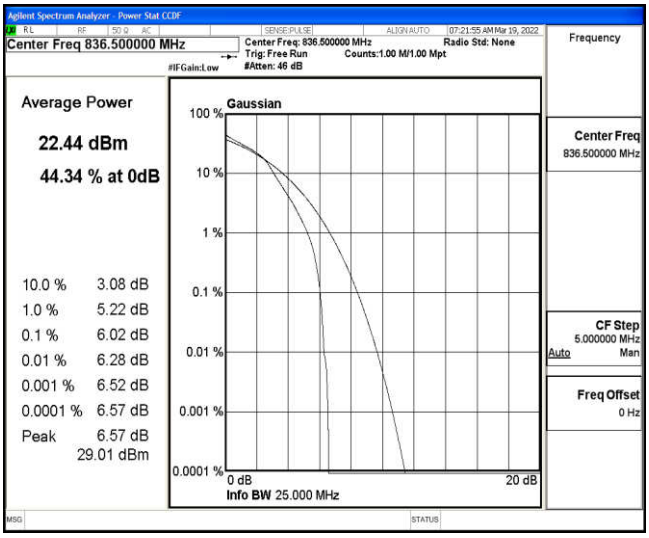

Band5-1.4MHz-16QAM-20407-6RB#0




Band5-1.4MHz-16QAM-20525-1RB#0




Band5-1.4MHz-16QAM-20525-6RB#0



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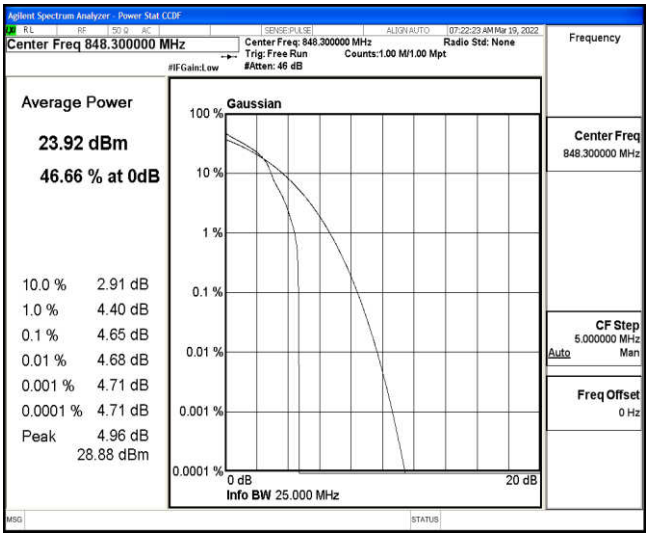


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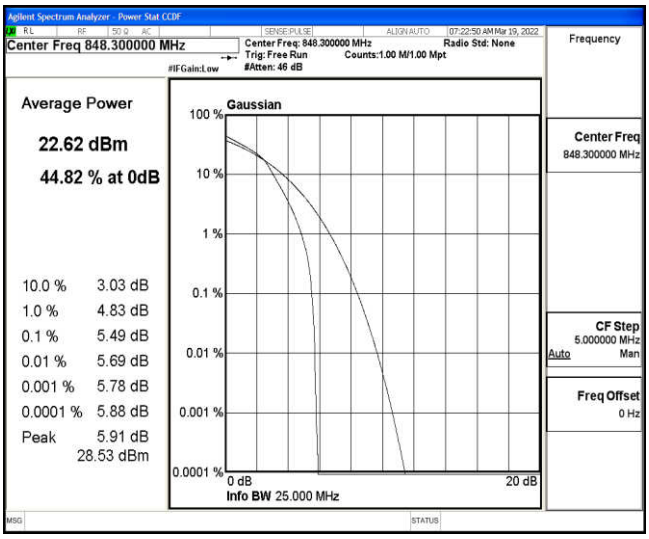


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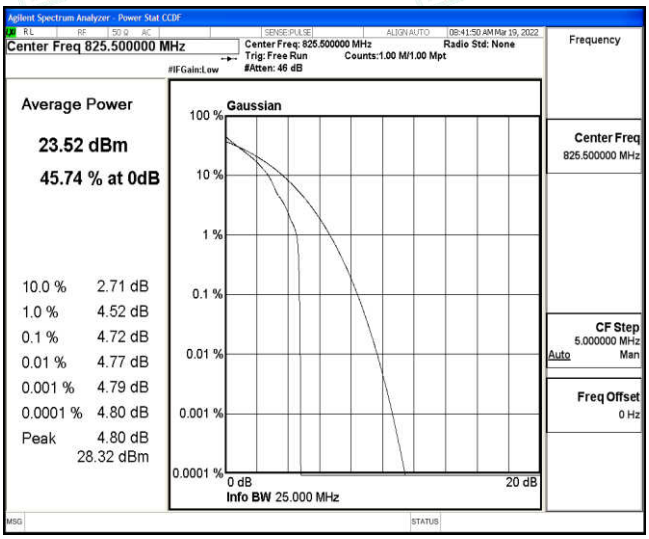


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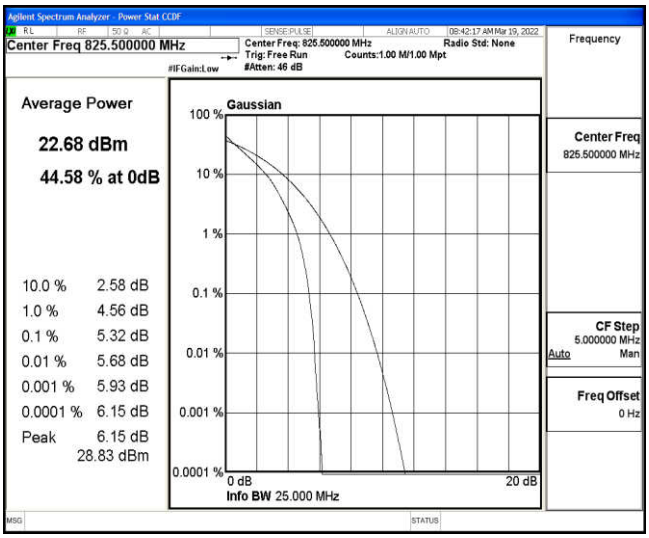


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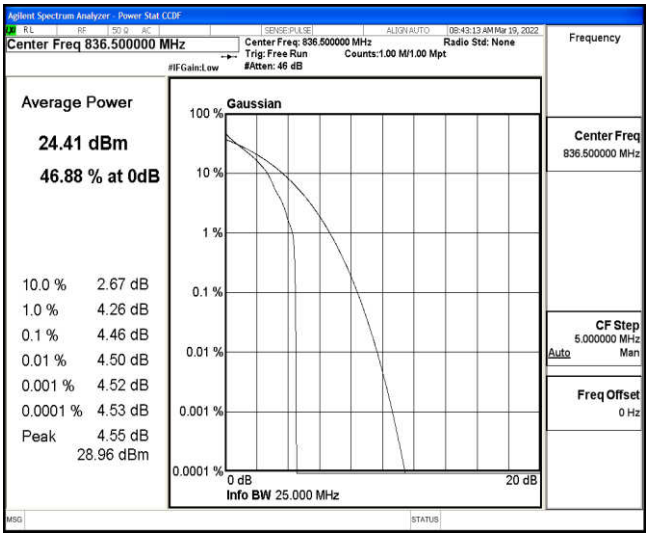

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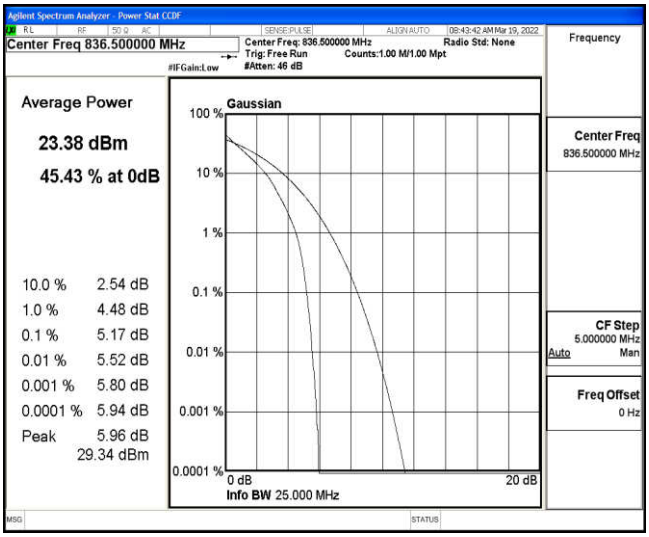


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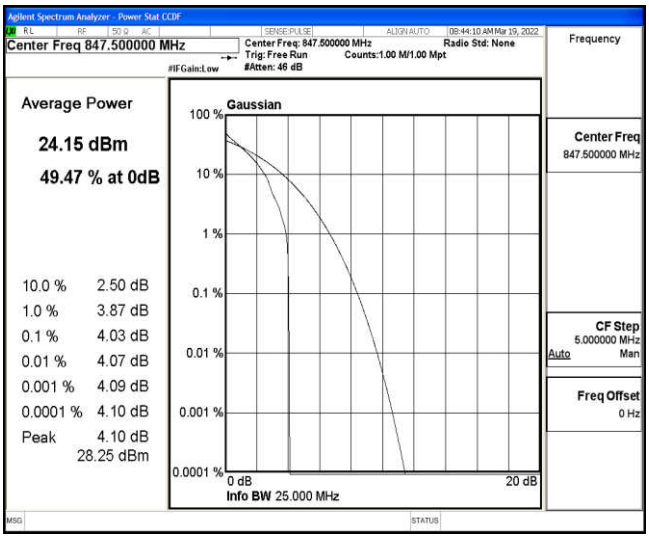


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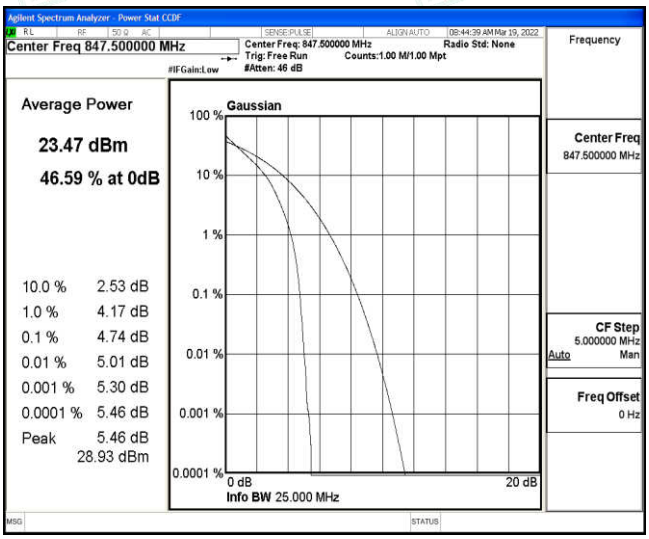


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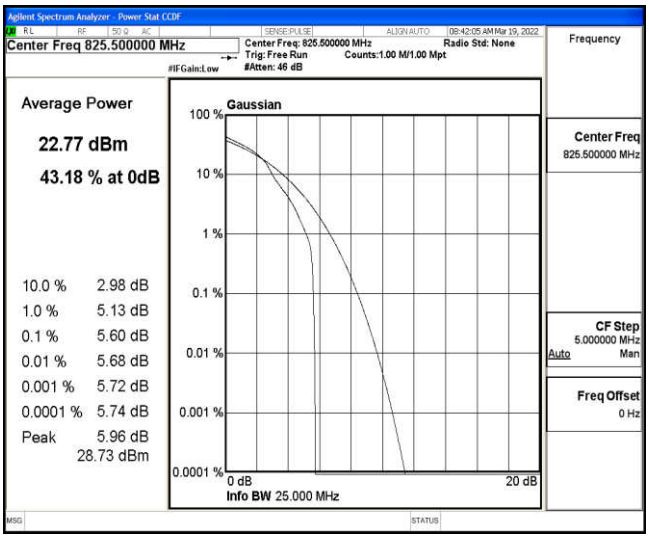


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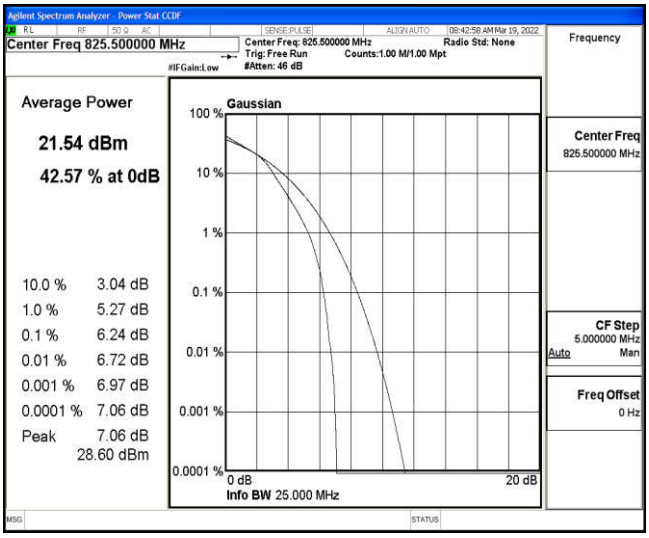

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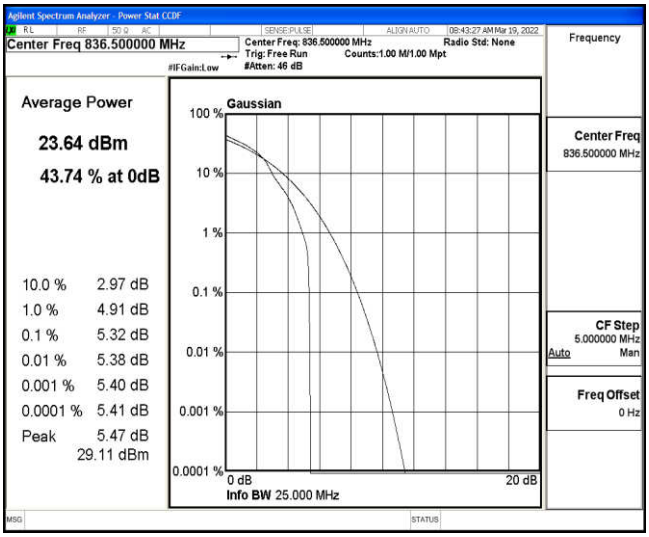


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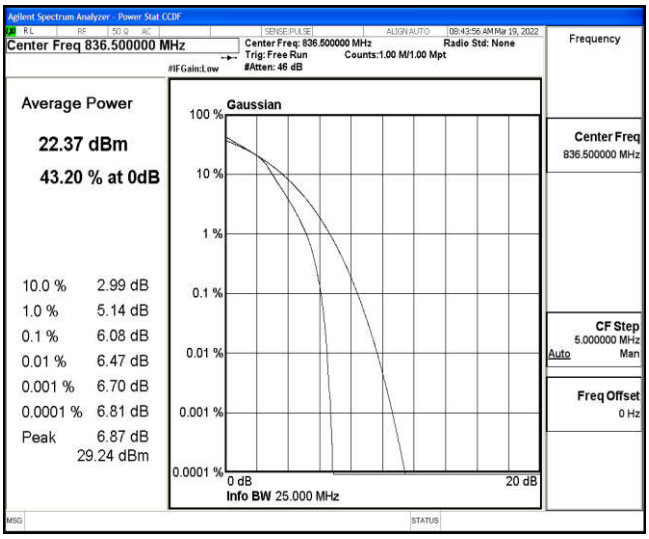


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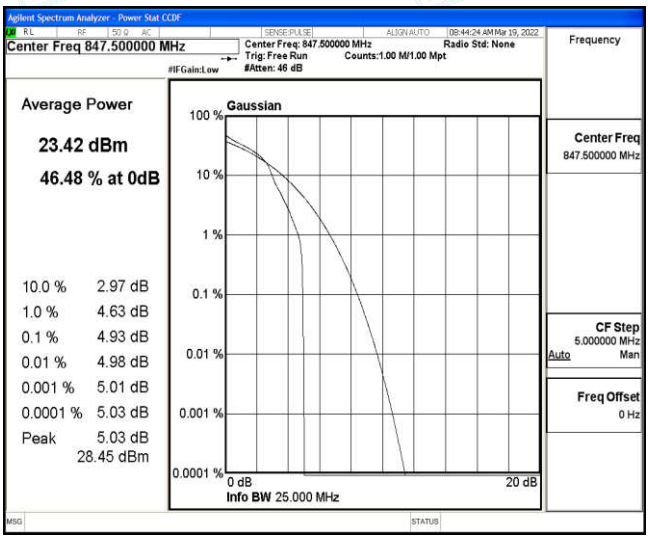


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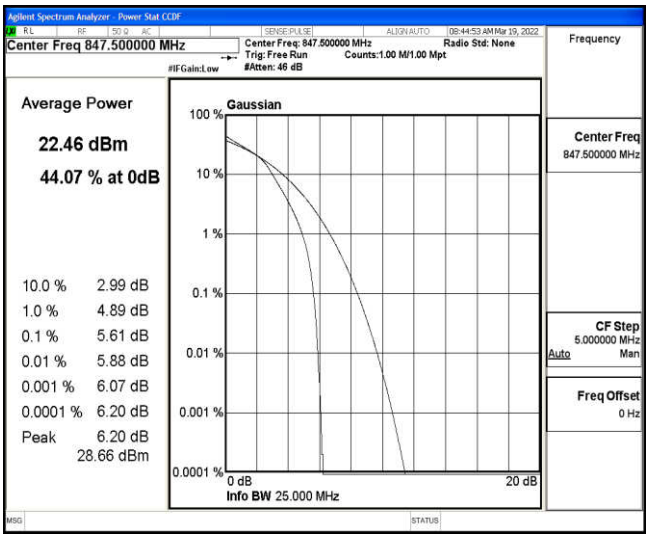


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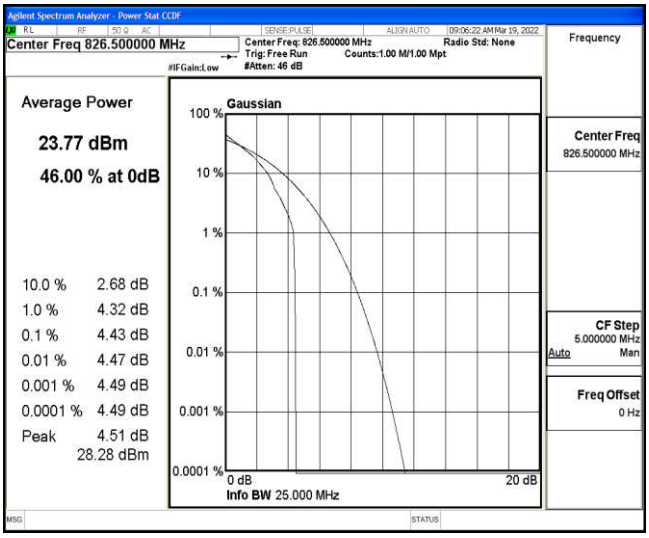

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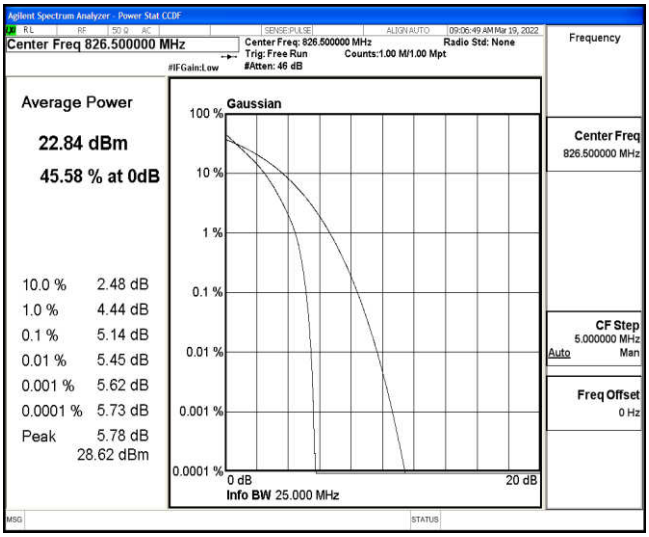


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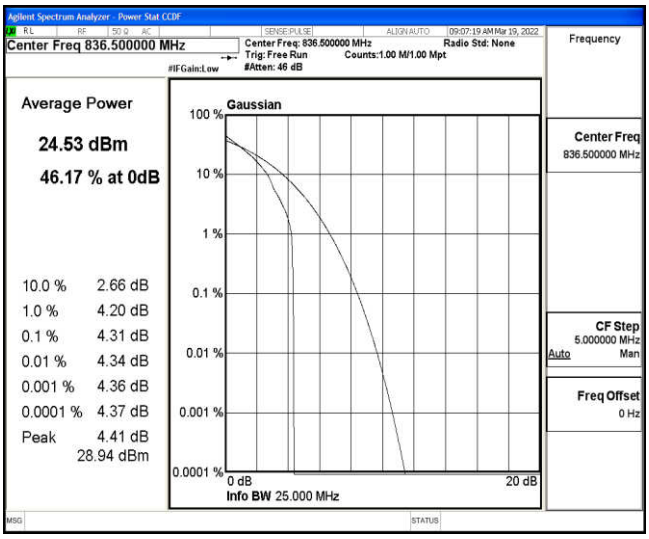


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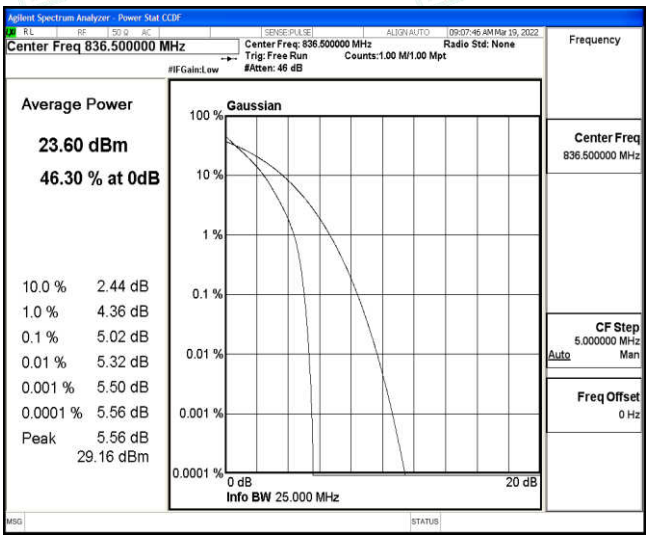


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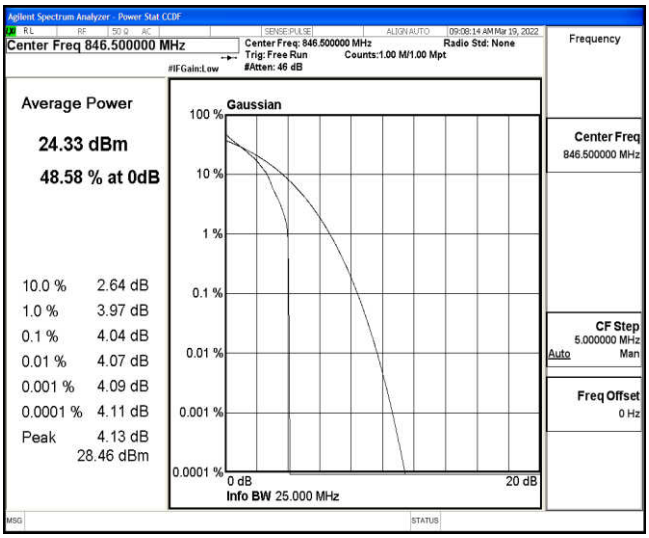


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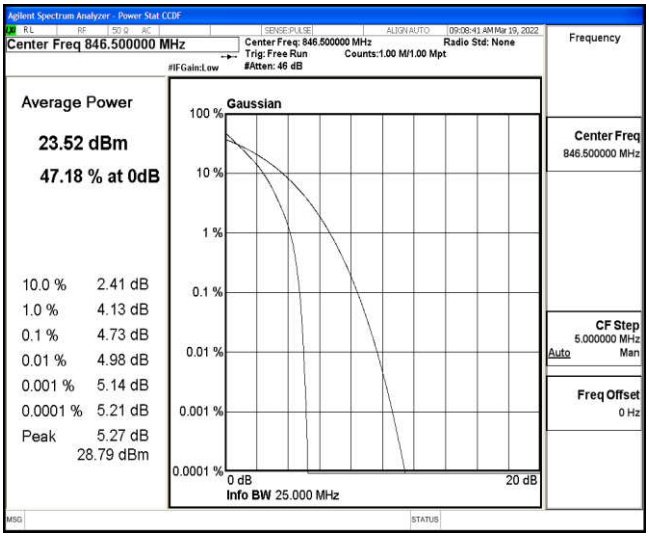

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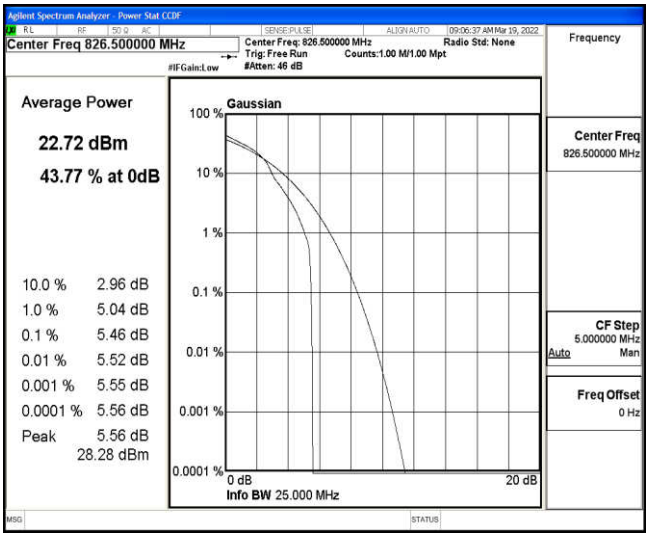


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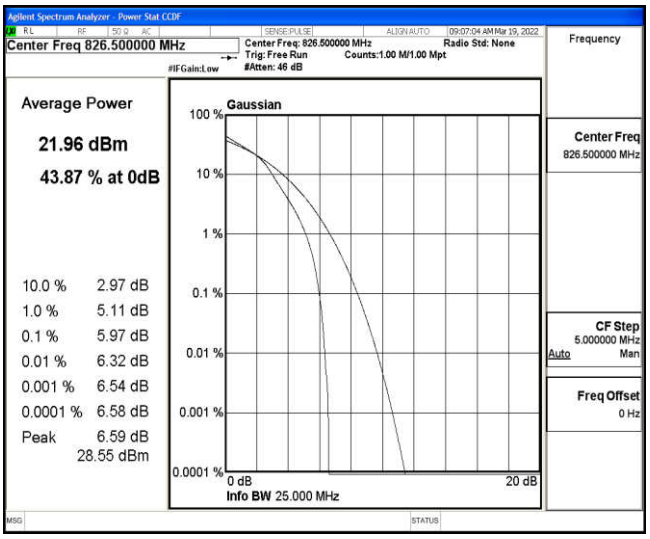


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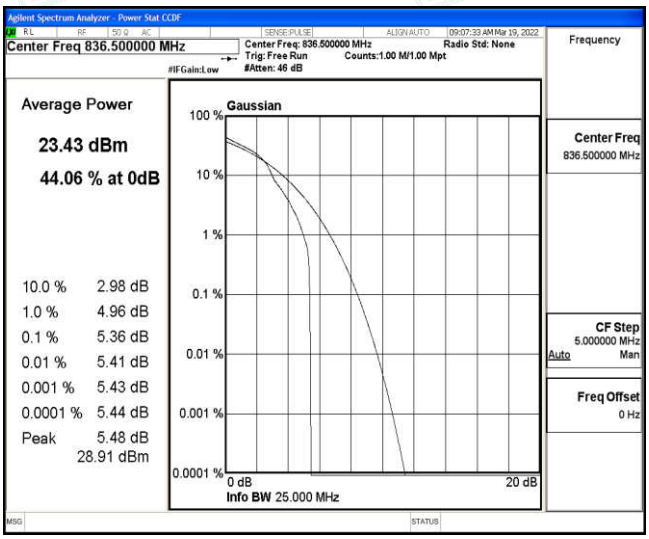


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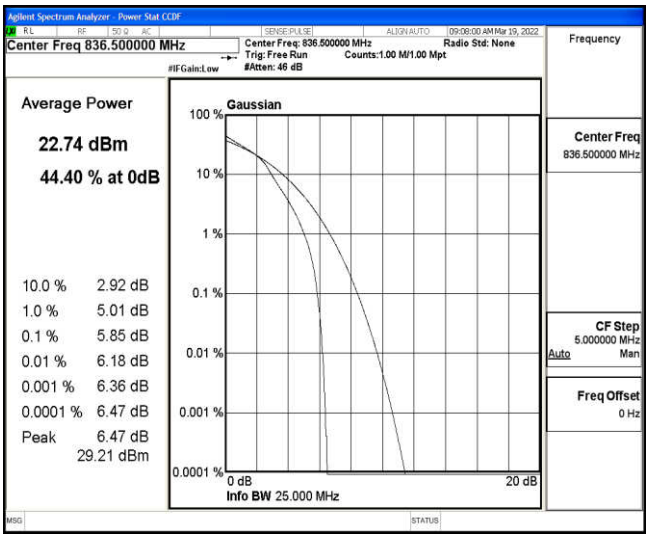


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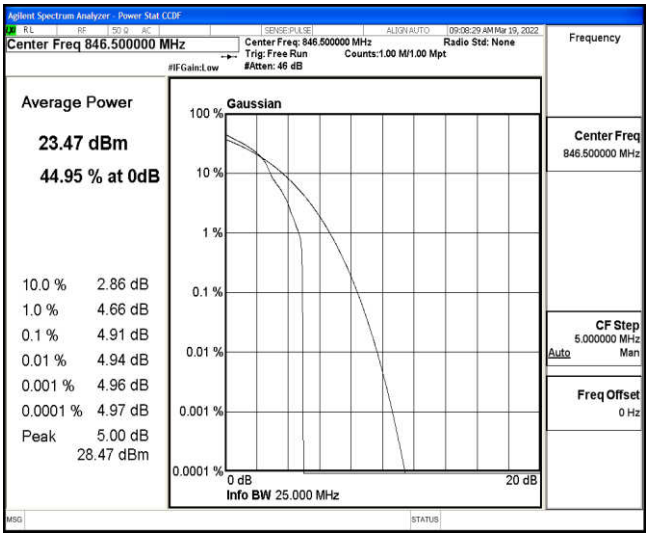

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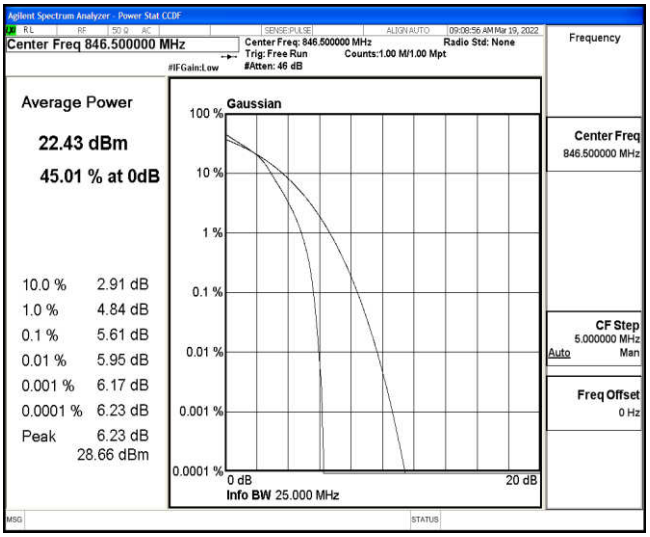


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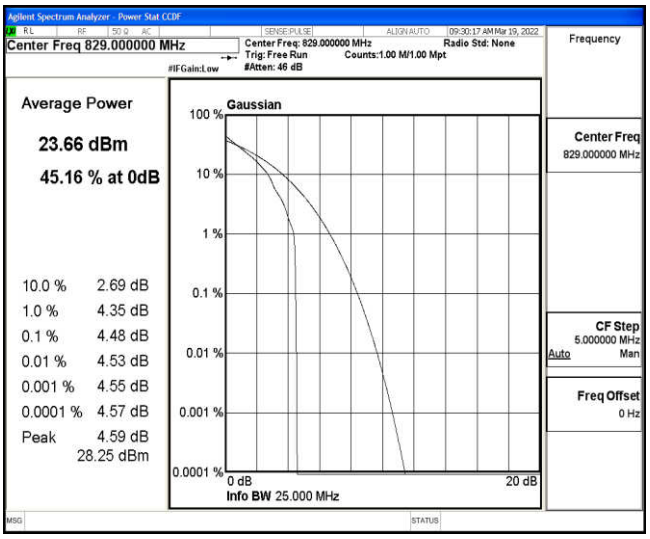


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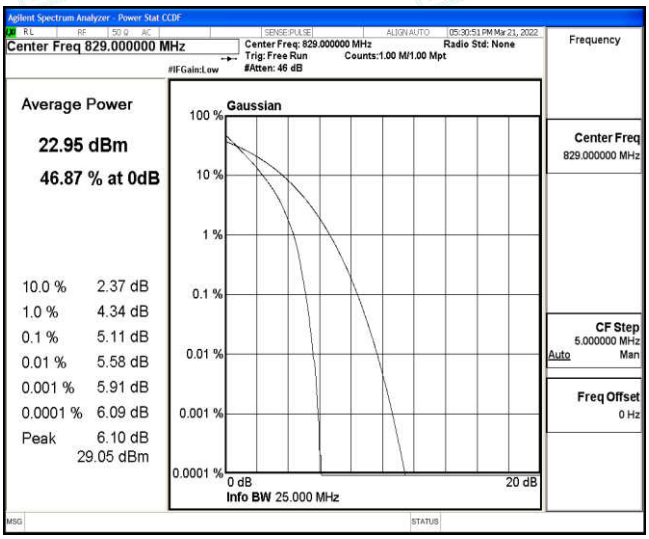


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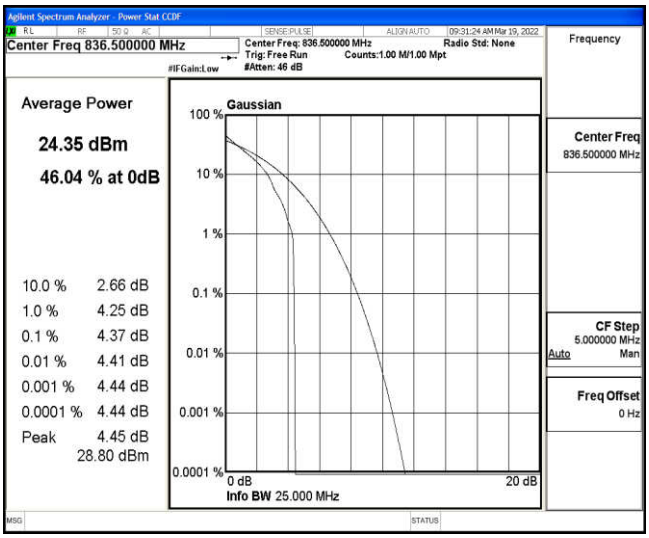


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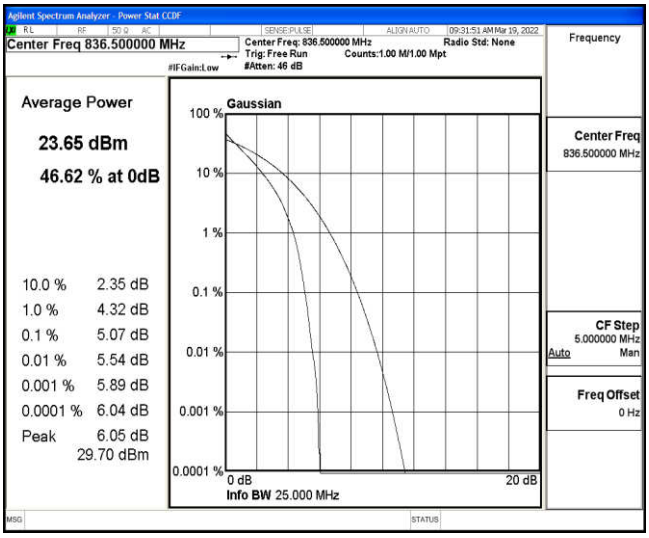

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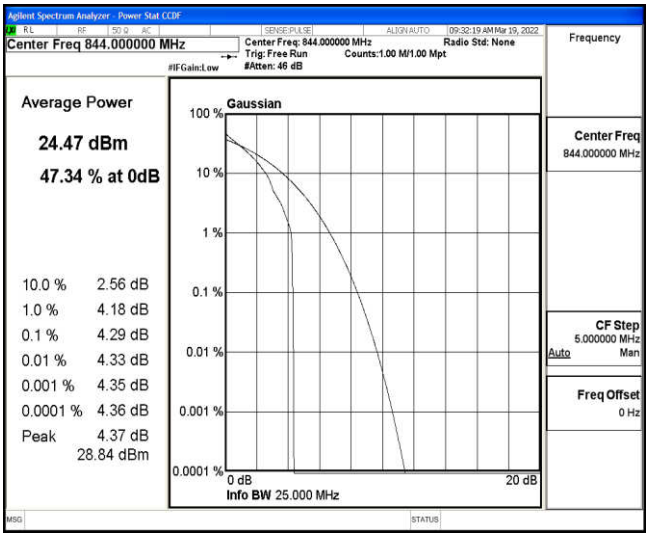


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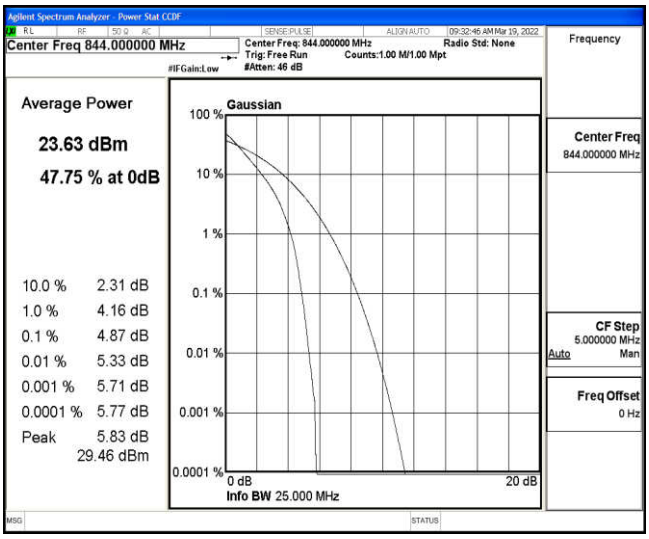


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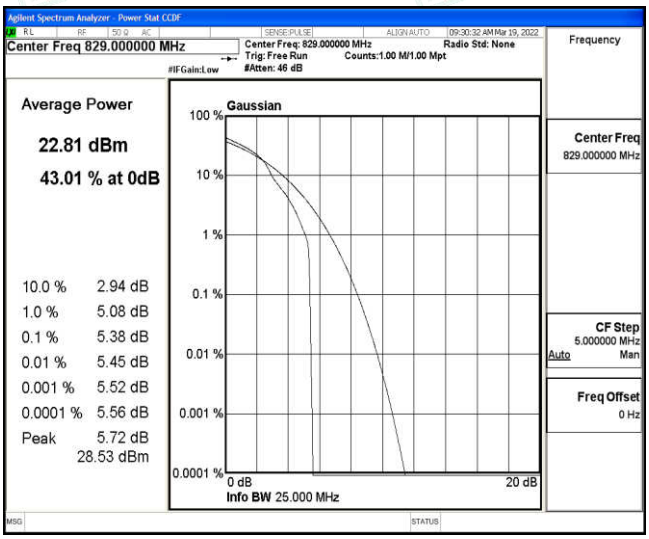


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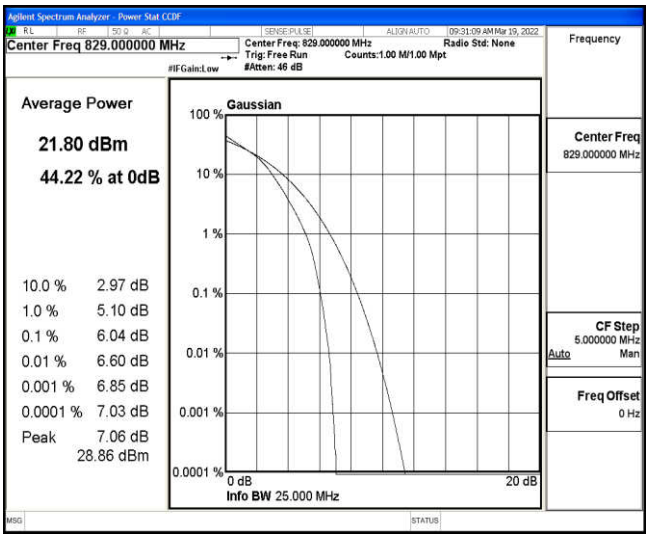


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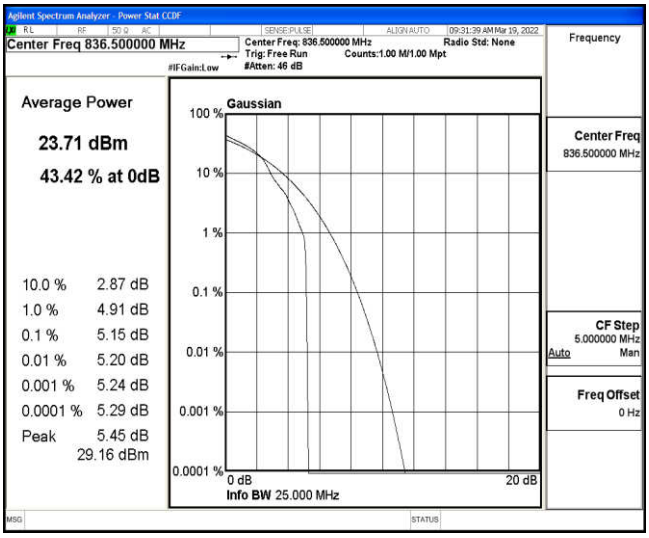

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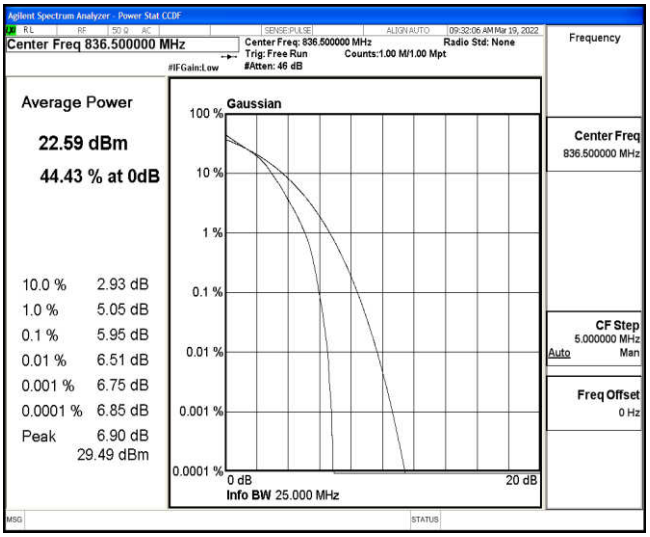


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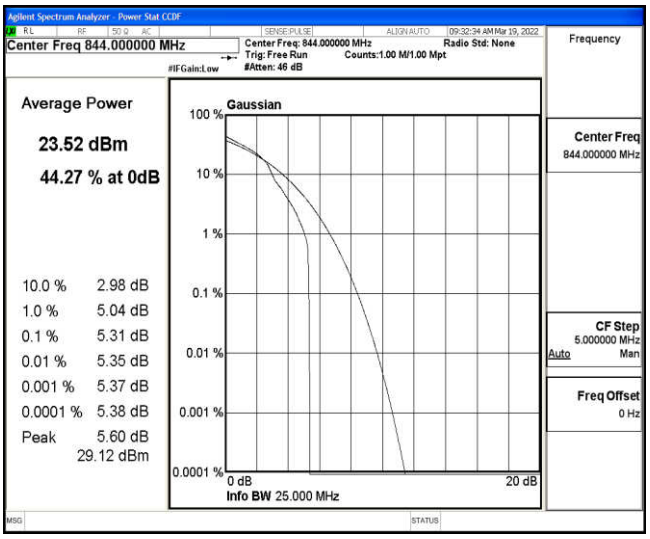


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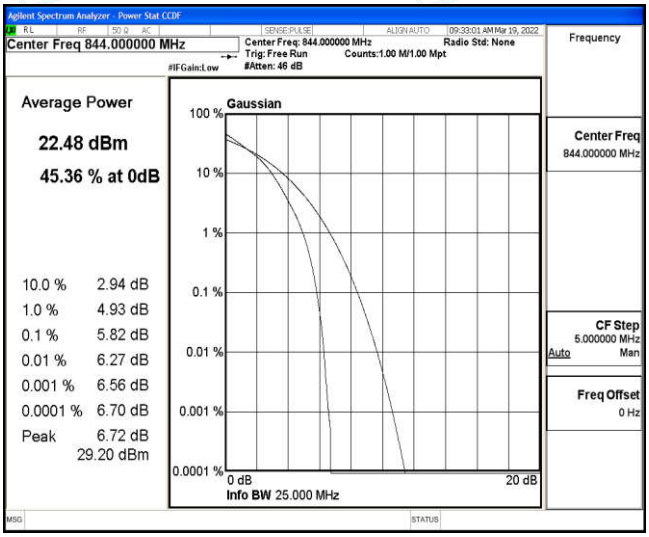

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
Counts:1.00 M/1.00 Mpt
#Atten: 46 dB
Radio Std: None
Frequency
Average Power
22.48 dBm
45.36 % at 0dB
10.0 % 2.94 dB
1.0 % 4.93 dB
0.1 % 5.82 dB
0.01 % 6.27 dB
0.001 % 6.56 dB
0.0001 % 6.70 dB
Peak 6.72 dB
29.20 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
844.000000 MHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz

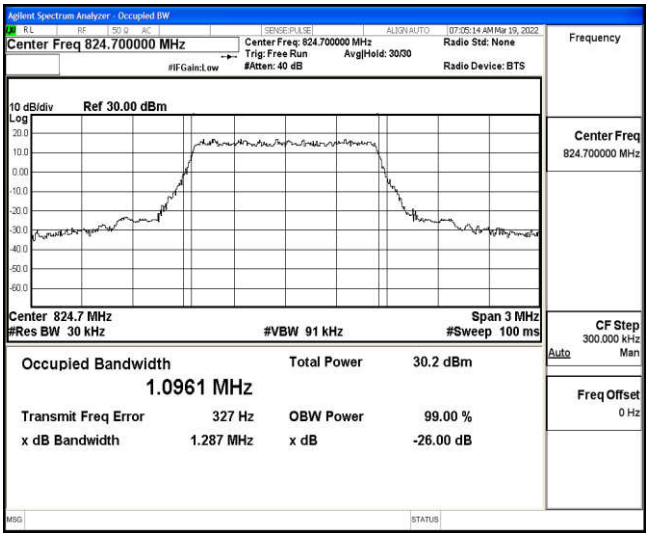
# C.3 26dB Bandwidth and Occupied Bandwidth

## Test Result

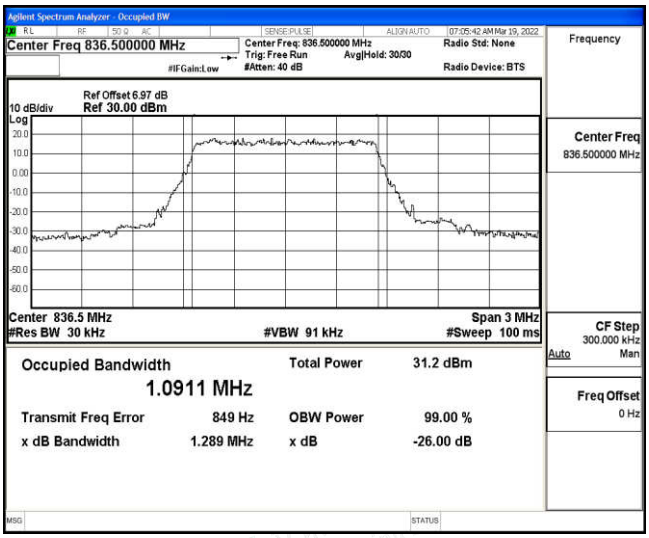
| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.0961 | 1.287 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.0911 | 1.289 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.0940 | 1.274 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.0926 | 1.289 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.0972 | 1.290 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.0924 | 1.279 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.6975 | 2.967 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.6962 | 2.991 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.6949 | 2.955 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.6833 | 2.944 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.6829 | 2.958 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.6894 | 2.962 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.5094 | 5.030 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.5127 | 4.997 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.4954 | 4.978 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.5123 | 4.993 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.5033 | 4.976 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.5061 | 5.017 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 8.9521 | 9.887 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 8.9620 | 9.924 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.9568 | 9.819 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 8.9845 | 9.835 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.9591 | 9.828 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.9673 | 9.817 | PASS |

## Test Graphs

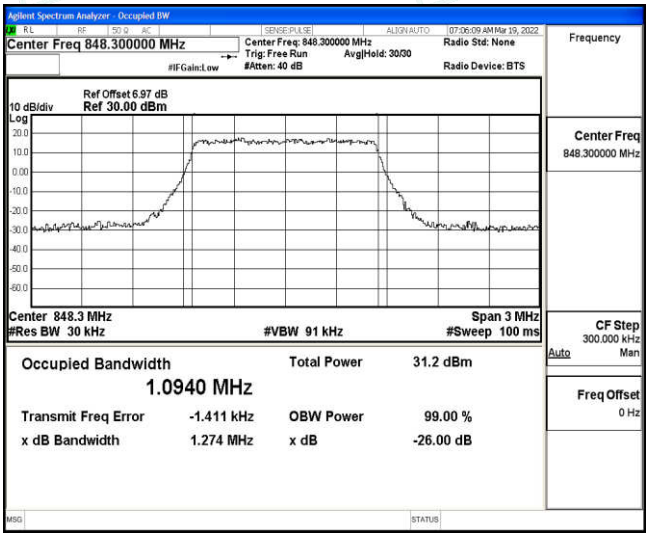
Band5-1.4MHz-QPSK-20407-6RB#0



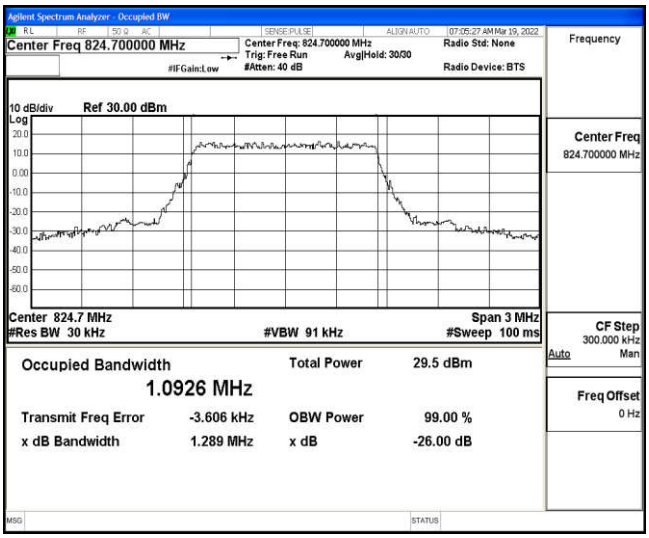

Band5-1.4MHz-QPSK-20525-6RB#0



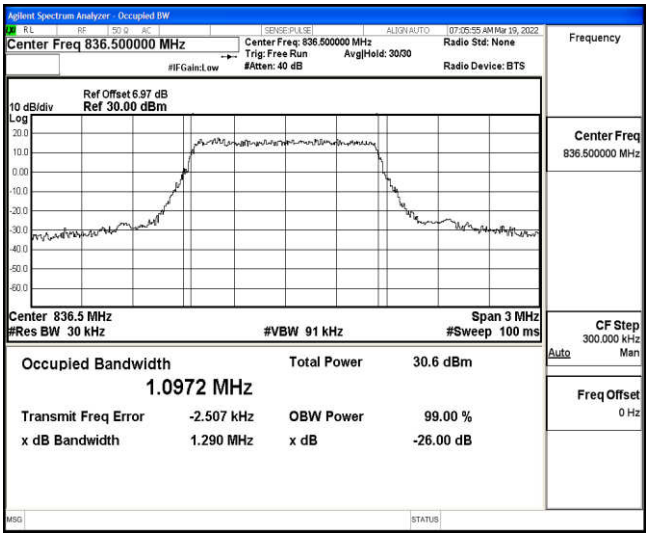

Band5-1.4MHz-QPSK-20643-6RB#0




Band5-1.4MHz-16QAM-20407-6RB#0




Band5-1.4MHz-16QAM-20525-6RB#0



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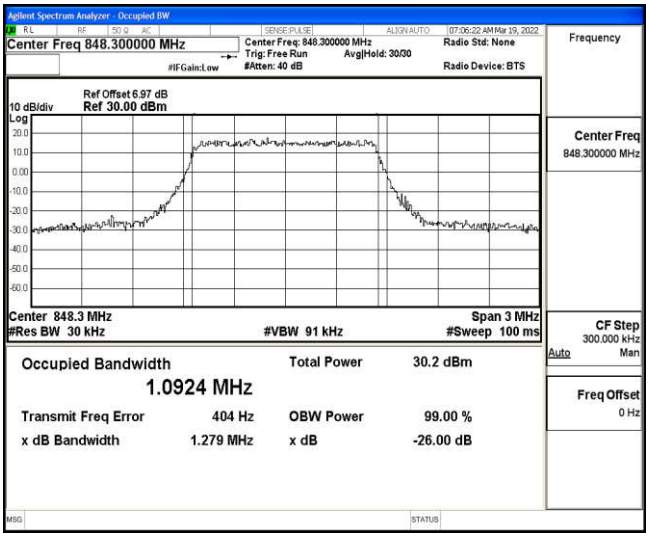
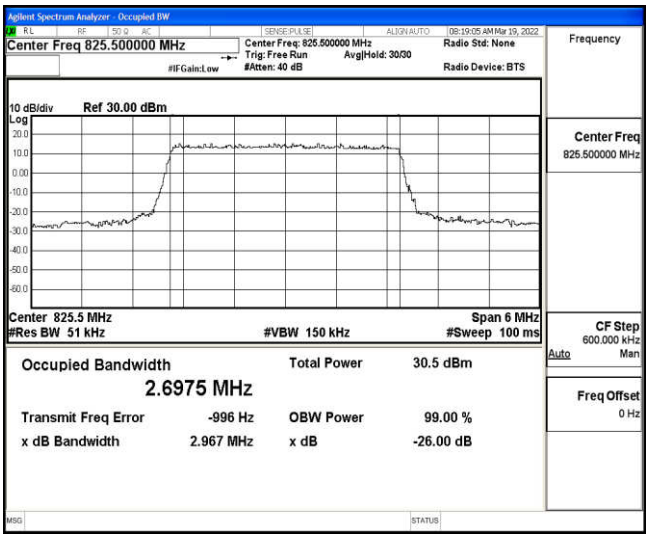



Band5-3MHz-QPSK-20415-15RB#0

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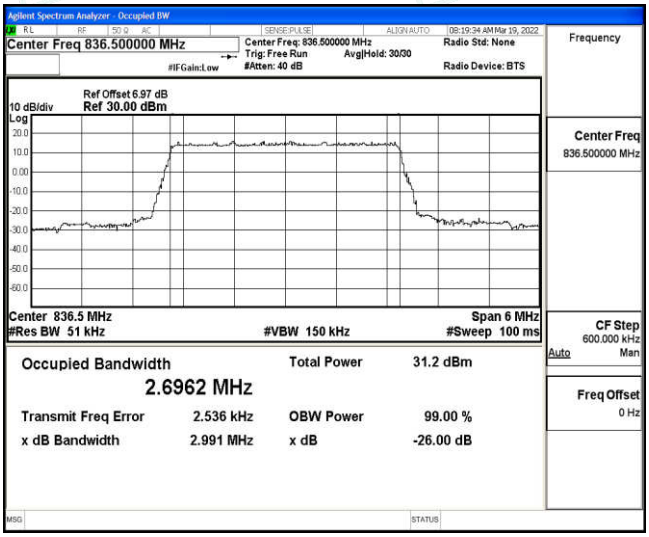
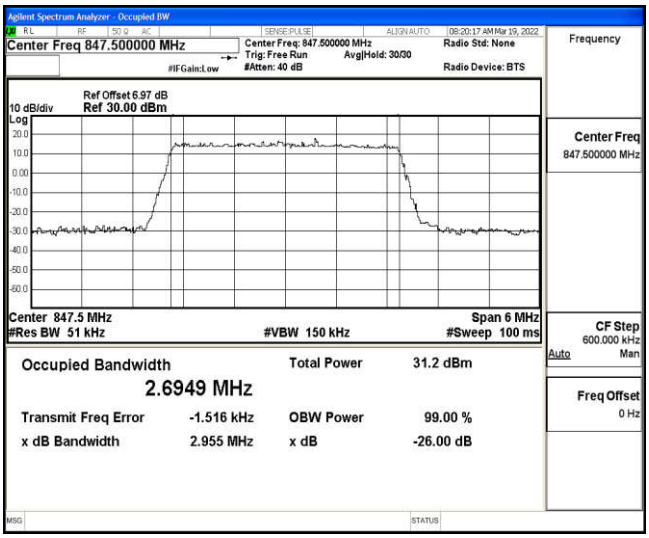
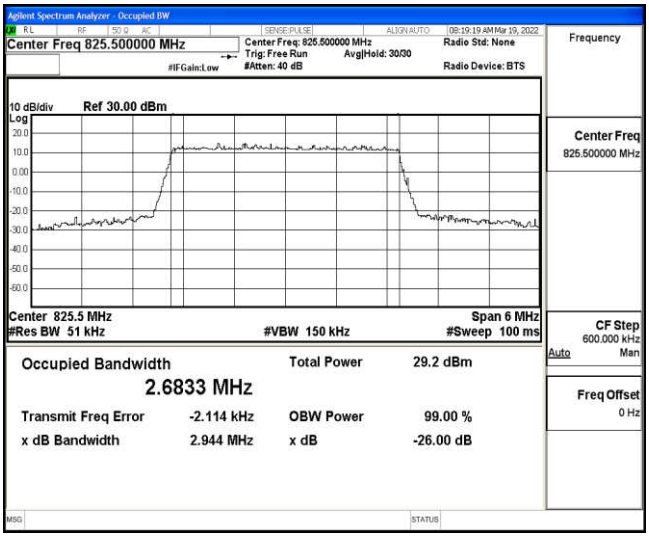


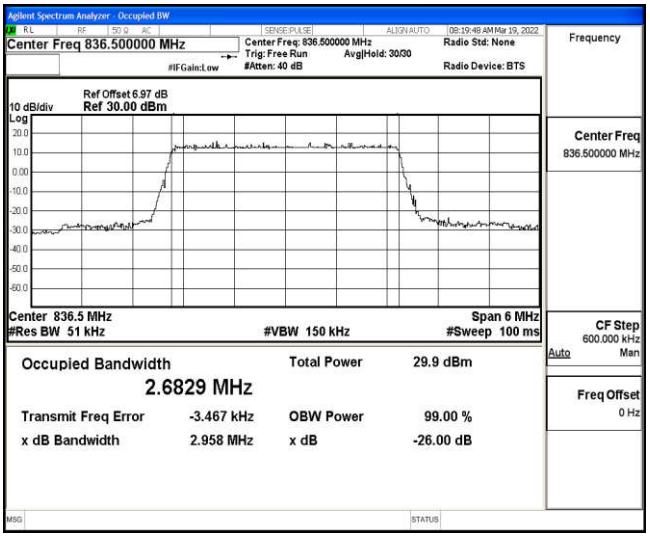

Band5-3MHz-QPSK-20635-15RB#0



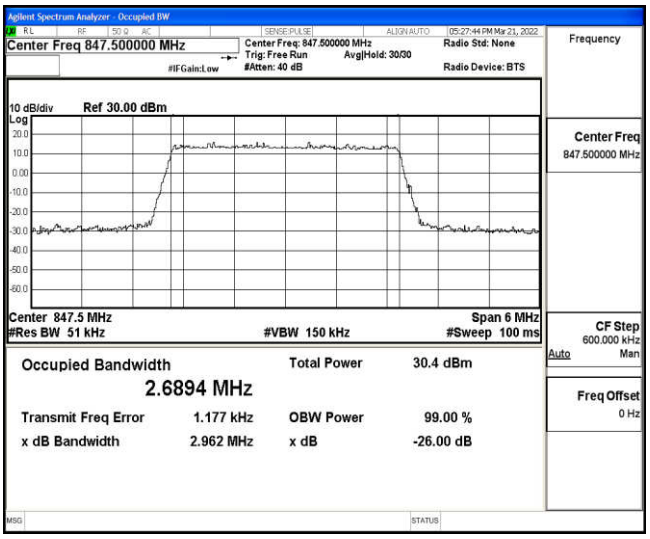

Band5-3MHz-16QAM-20415-15RB#0



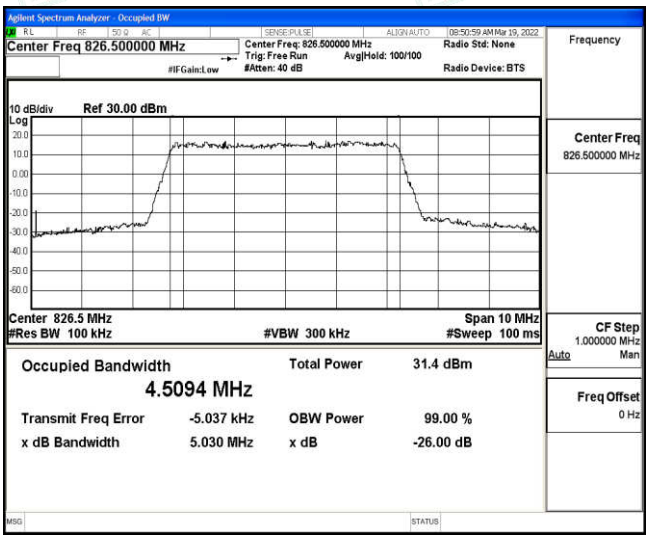
Band5-3MHz-16QAM-20525-15RB#0



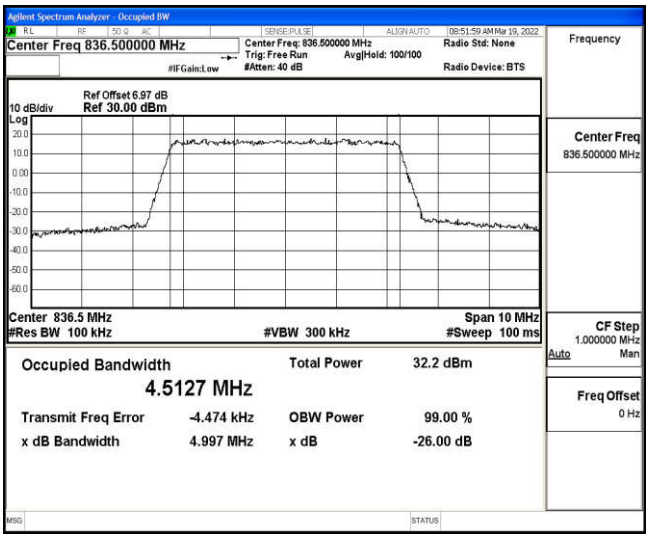

Band5-3MHz-16QAM-20635-15RB#0



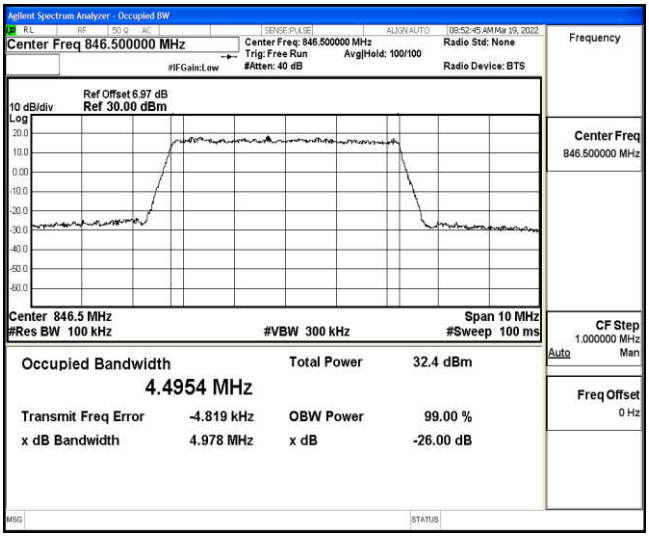

Band5-5MHz-QPSK-20425-25RB#0



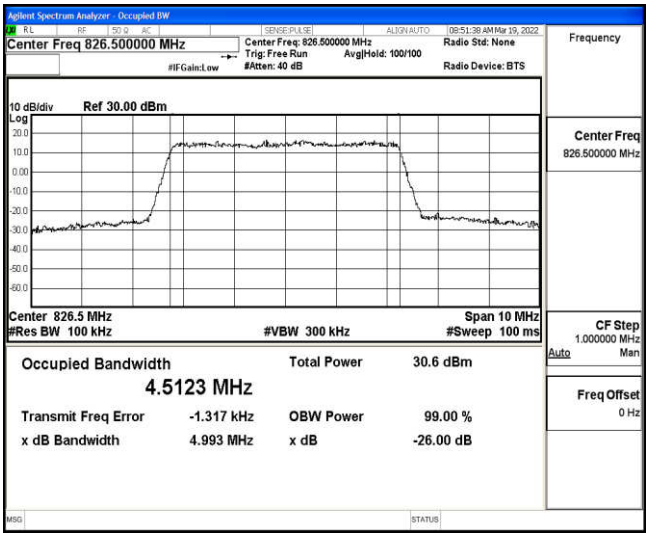

Band5-5MHz-QPSK-20525-25RB#0



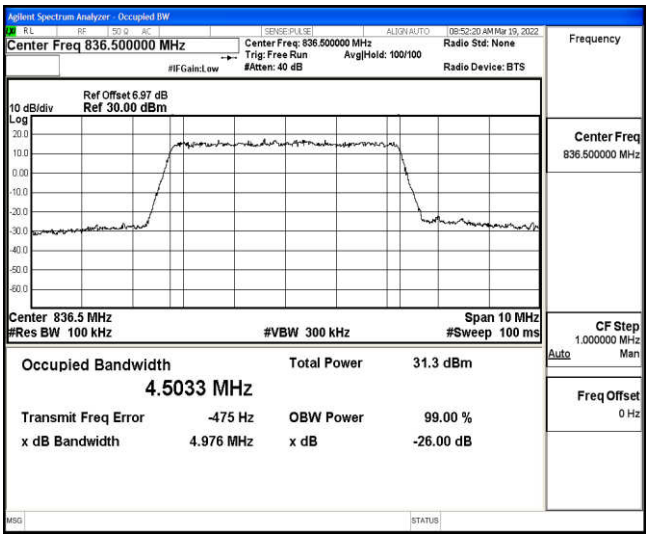

Band5-5MHz-QPSK-20625-25RB#0



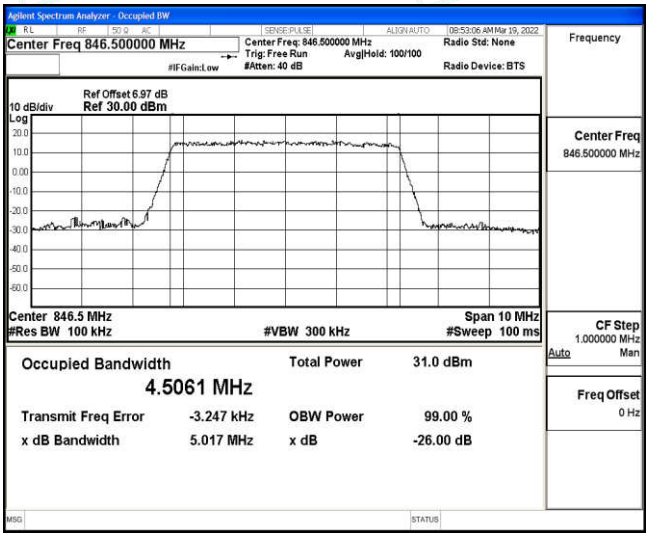
Band5-5MHz-16QAM-20425-25RB#0



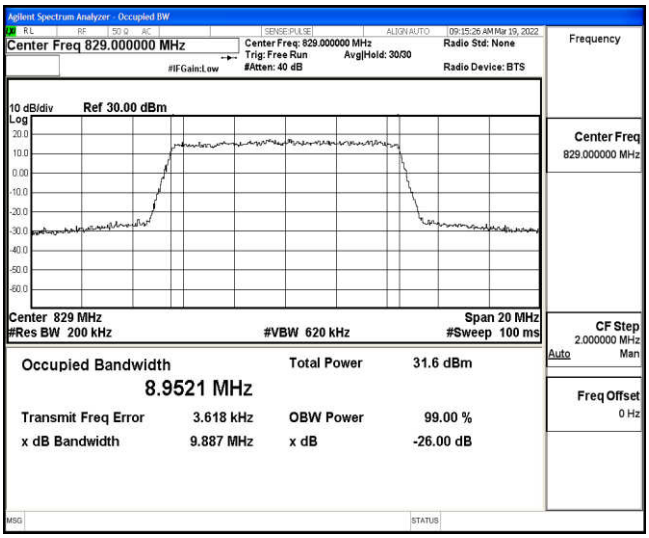

Band5-5MHz-16QAM-20525-25RB#0



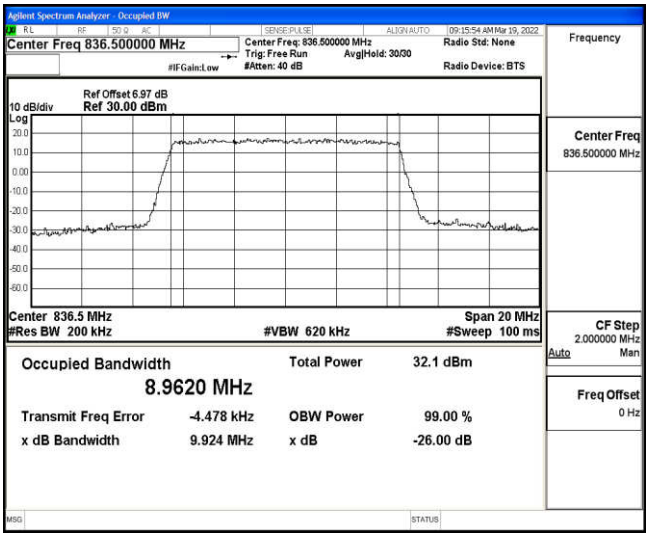

Band5-5MHz-16QAM-20625-25RB#0



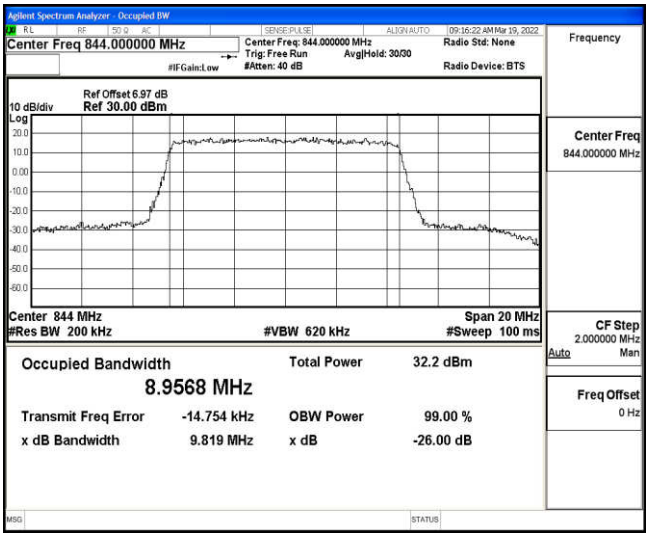

Band5-10MHz-QPSK-20450-50RB#0



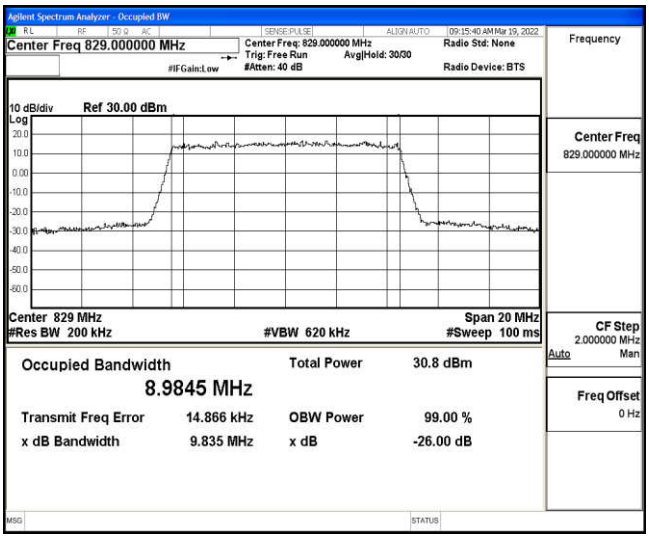

Band5-10MHz-QPSK-20525-50RB#0



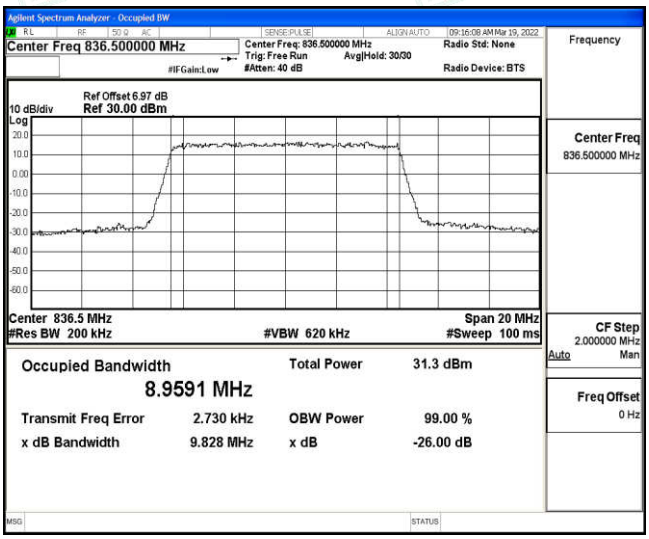
Band5-10MHz-QPSK-20600-50RB#0



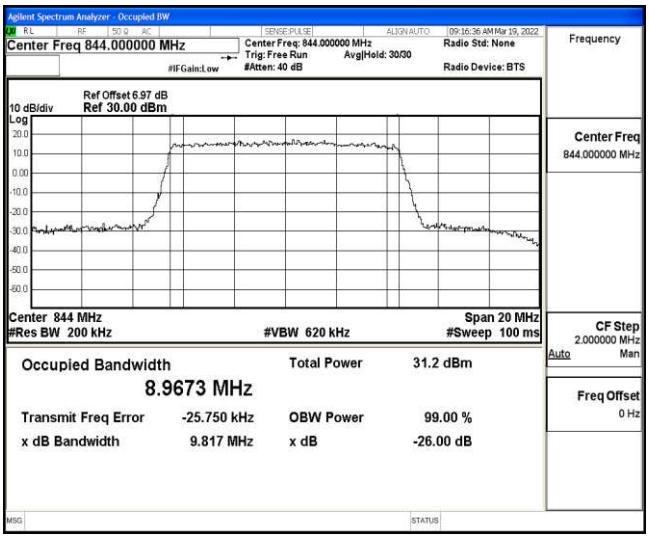

Band5-10MHz-16QAM-20450-50RB#0




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




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



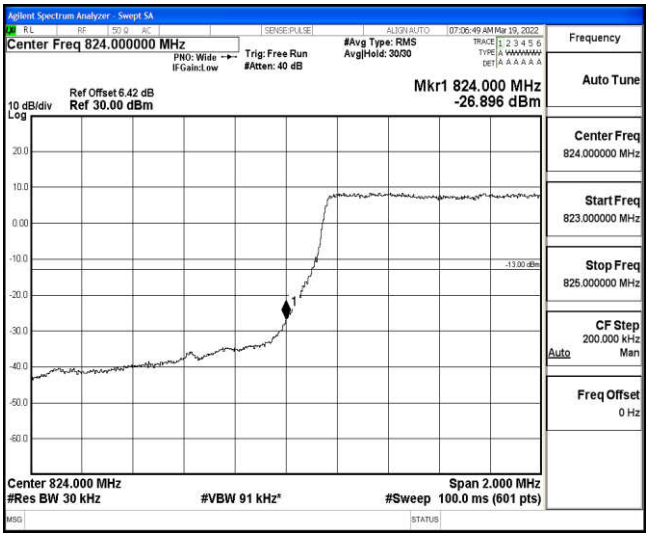
## C.4 Band Edge

### Test Result

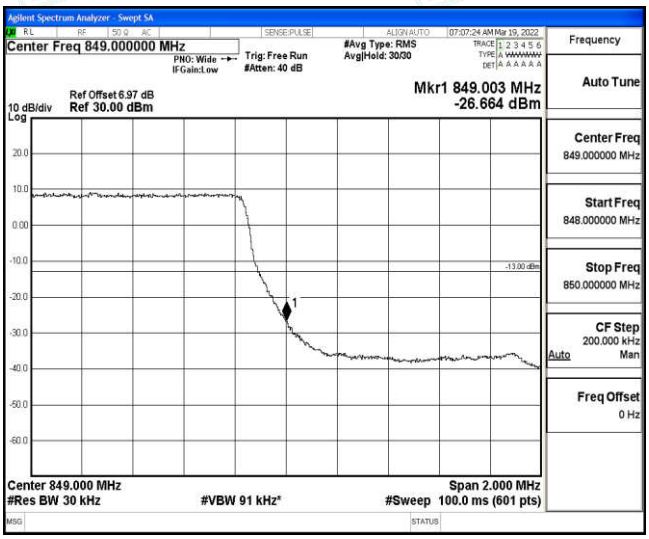
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | -26.90 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | -26.66 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | -28.53 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | -27.95 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | -24.94 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | -25.69 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | -26.49 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | -28.26 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | -24.57 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | -25.57 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | -26.31 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | -26.00 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | -28.91 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | -29.10 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | -30.08 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | -29.86 | PASS |

### Test Graphs

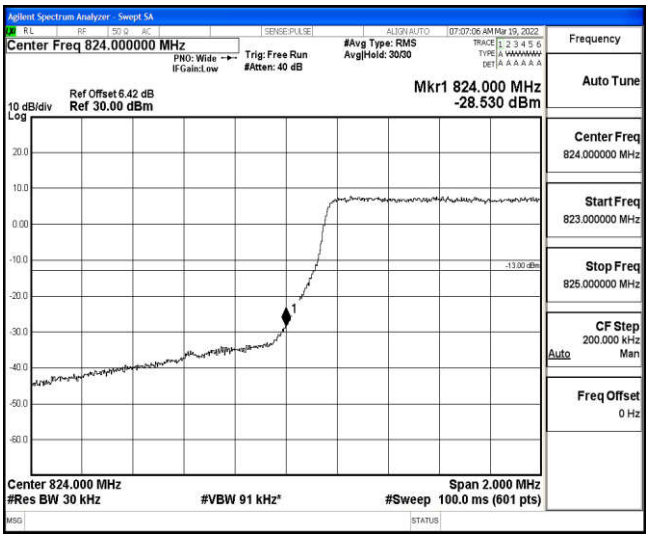
Band5-1.4MHz-QPSK-20407-6RB#0



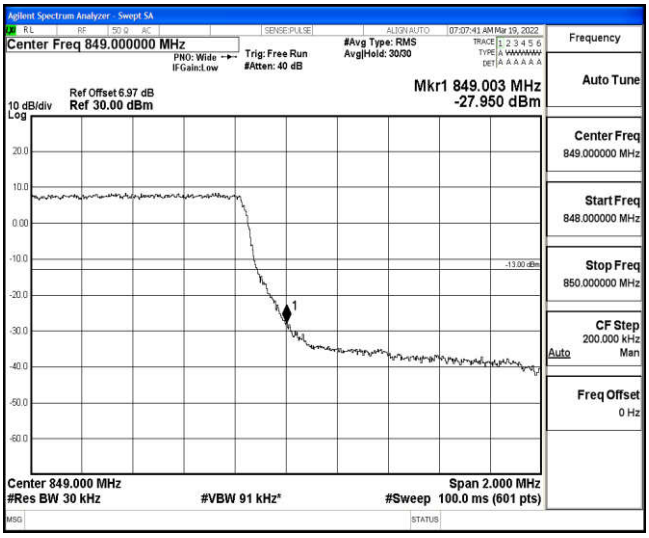

Band5-1.4MHz-QPSK-20643-6RB#0



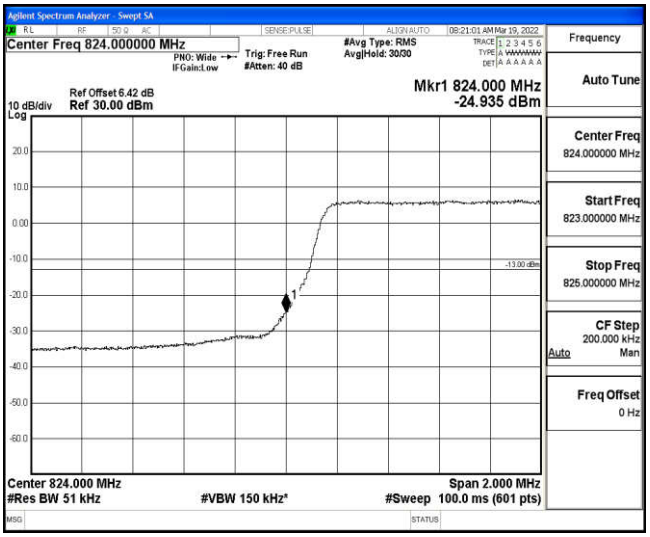

Band5-1.4MHz-16QAM-20407-6RB#0



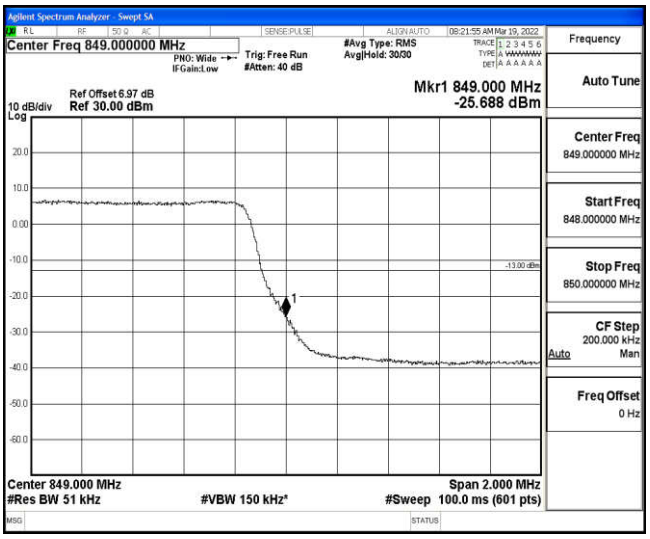

Band5-1.4MHz-16QAM-20643-6RB#0



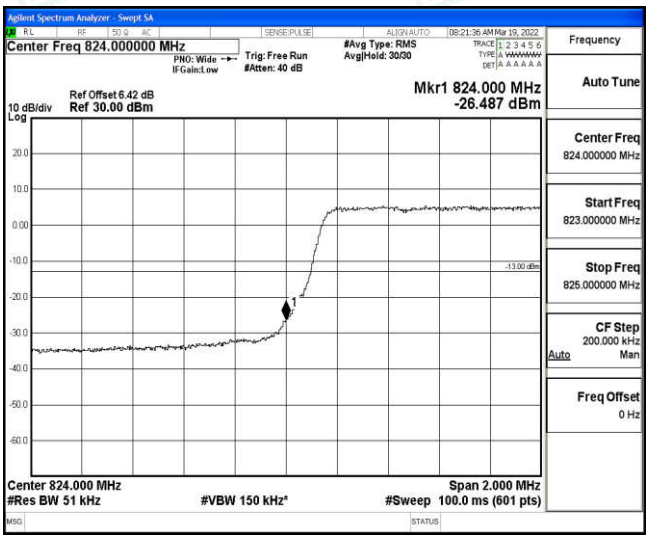
Band5-3MHz-QPSK-20415-15RB#0



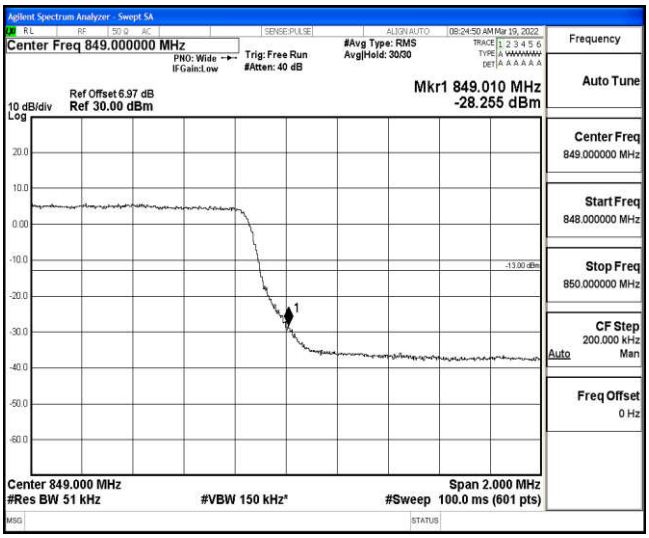

Band5-3MHz-QPSK-20635-15RB#0



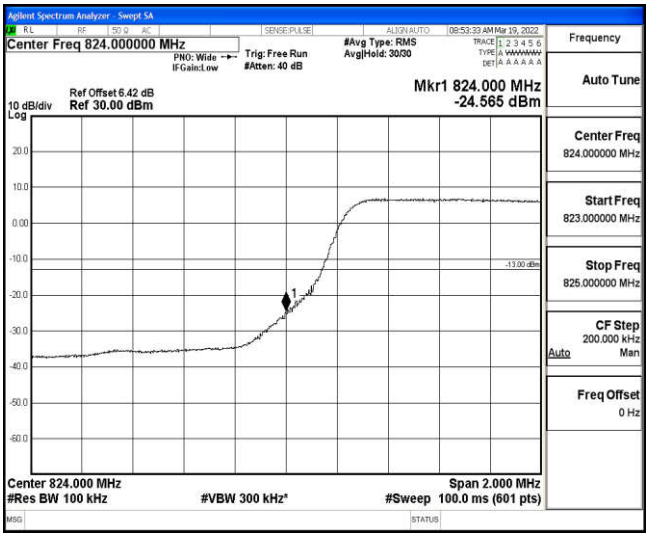

Band5-3MHz-16QAM-20415-15RB#0



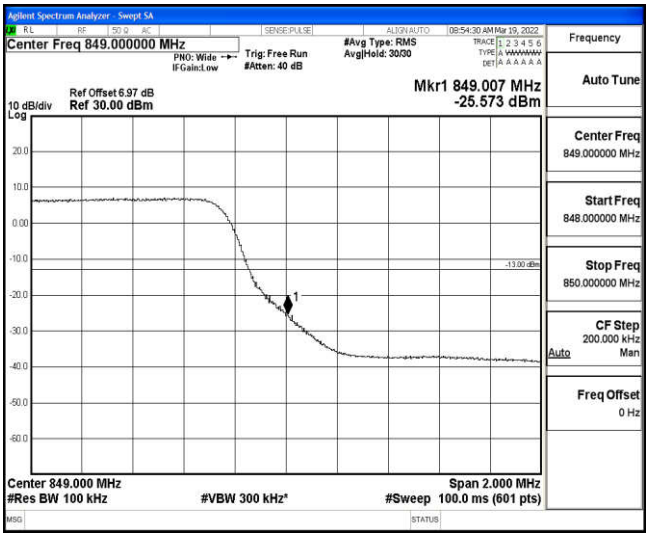

Band5-3MHz-16QAM-20635-15RB#0



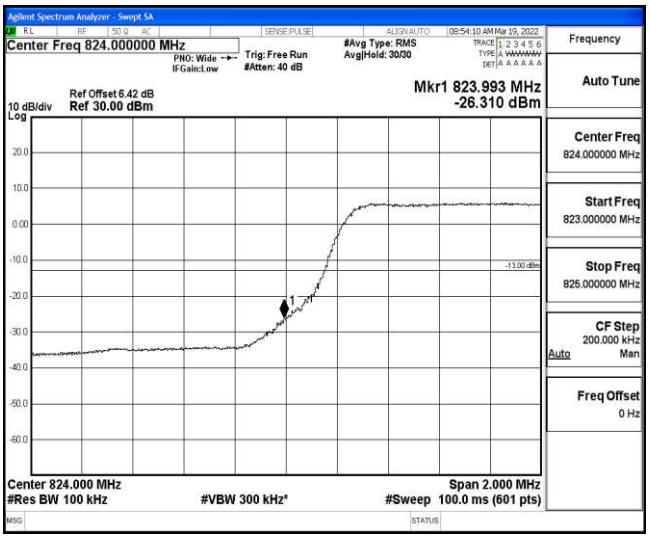

Band5-5MHz-QPSK-20425-25RB#0



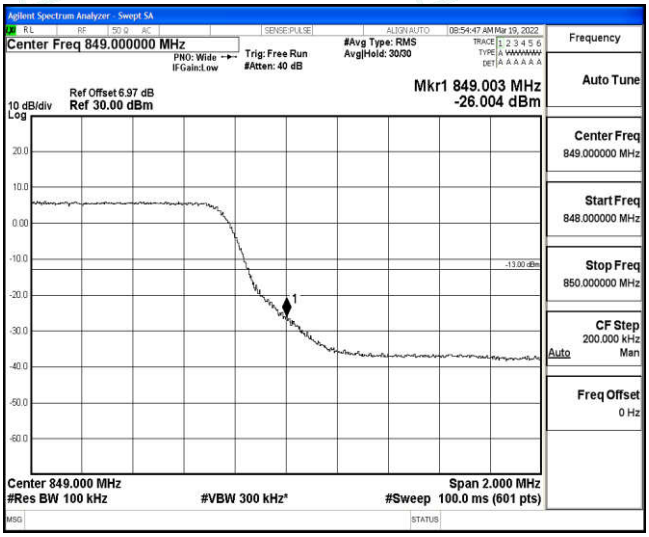
Band5-5MHz-QPSK-20625-25RB#0



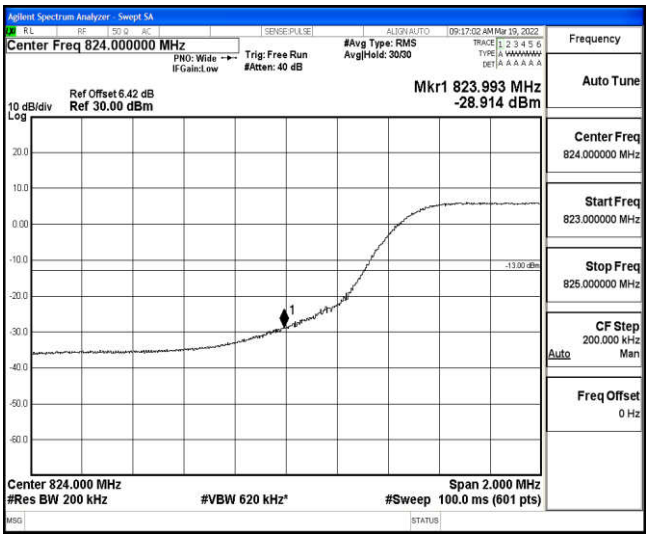

Band5-5MHz-16QAM-20425-25RB#0



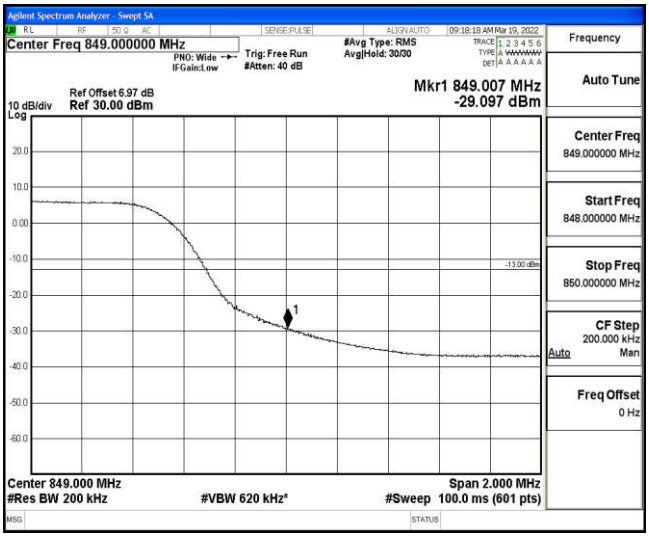

Band5-5MHz-16QAM-20625-25RB#0



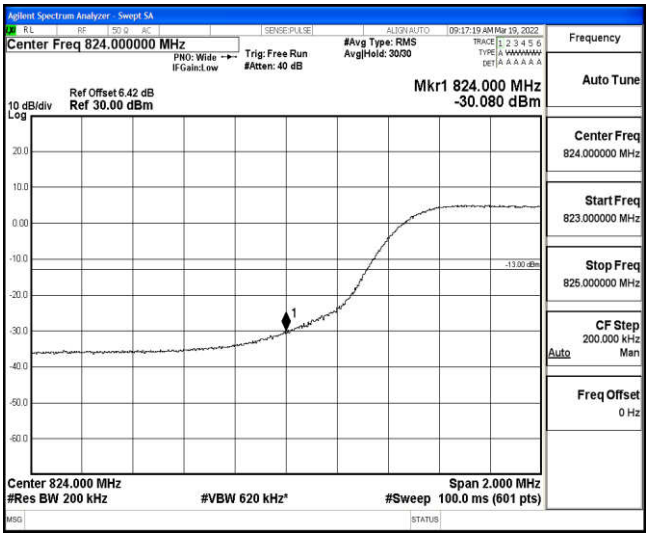

Band5-10MHz-QPSK-20450-50RB#0



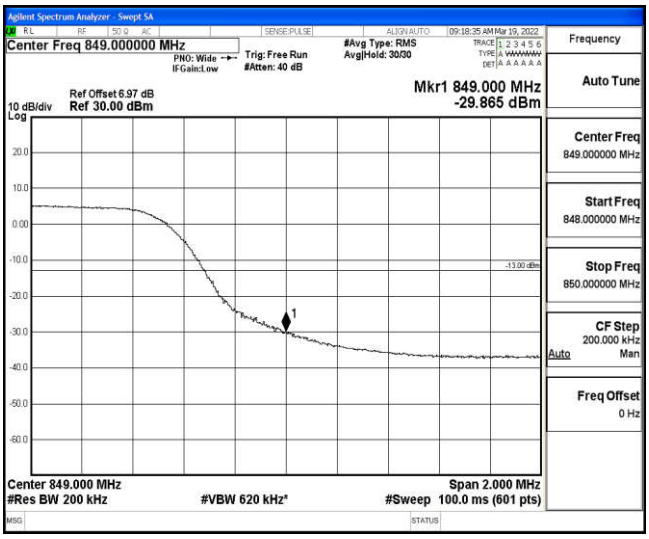

Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0




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



## C.5 Conducted Spurious Emission

### Test Result

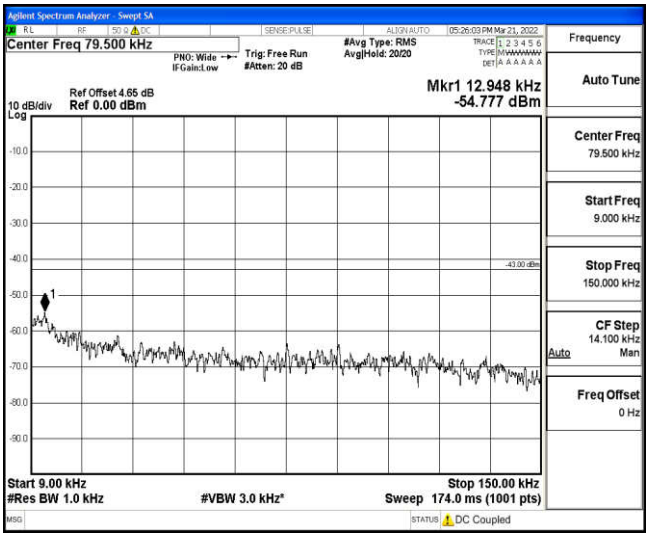
| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range1:0.009~0.15MHz | -54.78 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range2:0.15~30MHz | -51.34 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range3:30~1000MHz | -40.94 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range4:1000~10000MHz | -44.34 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -54.8 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range2:0.15~30MHz | -49.29 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range3:30~1000MHz | -39.89 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.56 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range1:0.009~0.15MHz | -55.71 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range2:0.15~30MHz | -50.83 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range3:30~1000MHz | -40.68 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range4:1000~10000MHz | -44.41 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range1:0.009~0.15MHz | -53.47 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range2:0.15~30MHz | -50.48 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range3:30~1000MHz | -40.36 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range4:1000~10000MHz | -44.54 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -55.13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz | -40.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.51 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range1:0.009~0.15MHz | -52.61 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range2:0.15~30MHz | -51.13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range3:30~1000MHz | -40.26 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range4:1000~10000MHz | -44.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range1:0.009~0.15MHz | -54.28 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range2:0.15~30MHz | -51.08 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range3:30~1000MHz | -40.57 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range4:1000~10000MHz | -44.49 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -54.81 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.83 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range3:30~1000MHz | -40.22 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.39 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range1:0.009~0.15MHz | -55.4 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range2:0.15~30MHz | -51.91 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range3:30~1000MHz | -40.56 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range4:1000~10000MHz | -44.58 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range1:0.009~0.15MHz | -55.54 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range2:0.15~30MHz | -50.9 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range3:30~1000MHz | -40.48 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range4:1000~10000MHz | -44.55 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -54.91 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.95 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz | -39.9 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.57 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range1:0.009~0.15MHz | -55.68 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range2:0.15~30MHz | -50.42 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range3:30~1000MHz | -41.01 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range4:1000~10000MHz | -44.63 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range1:0.009~0.15MHz | -53.63 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range2:0.15~30MHz | -48.68 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range3:30~1000MHz | -40.94 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range4:1000~10000MHz | -44.4 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -54.63 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.9 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range3:30~1000MHz | -40.76 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.55 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range1:0.009~0.15MHz | -54.05 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range2:0.15~30MHz | -50.42 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range3:30~1000MHz | -40.3 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range4:1000~10000MHz | -44.58 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range1:0.009~0.15MHz | -55.24 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range2:0.15~30MHz | -50.93 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range3:30~1000MHz | -40 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range4:1000~10000MHz | -44.49 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -54.39 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.68 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz | -40.61 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.51 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range1:0.009~0.15MHz | -53.14 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range2:0.15~30MHz | -50.12 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range3:30~1000MHz | -39.81 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range4:1000~10000MHz | -44.56 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range1:0.009~0.15MHz | -54.83 | PASS |

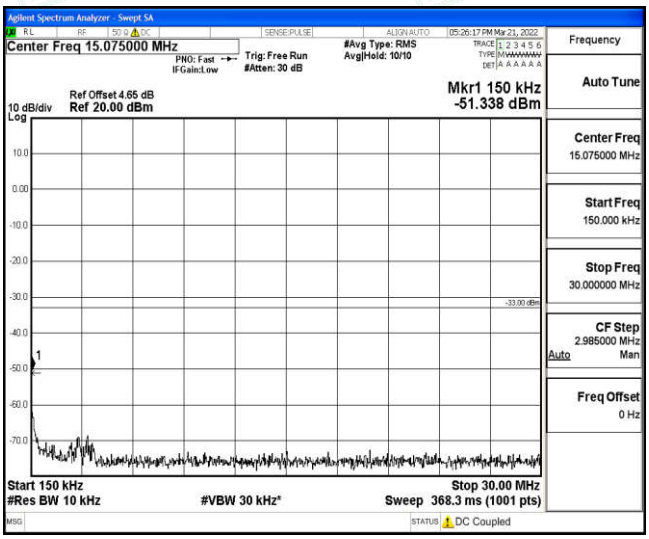
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range2:0.15~30MHz | -50 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range3:30~1000MHz | -39.93 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range4:1000~10000MHz | -44.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -55.26 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range2:0.15~30MHz | -52.04 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range3:30~1000MHz | -40.28 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range1:0.009~0.15MHz | -55.92 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range2:0.15~30MHz | -50.25 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range3:30~1000MHz | -40.59 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range4:1000~10000MHz | -44.58 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range1:0.009~0.15MHz | -54.07 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range2:0.15~30MHz | -50.03 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range3:30~1000MHz | -40.42 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range4:1000~10000MHz | -44.52 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -53.55 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz | -50.77 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz | -39 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.55 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range1:0.009~0.15MHz | -53.72 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range2:0.15~30MHz | -51.28 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range3:30~1000MHz | -40.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range4:1000~10000MHz | -44.6 | PASS |

## Test Graphs

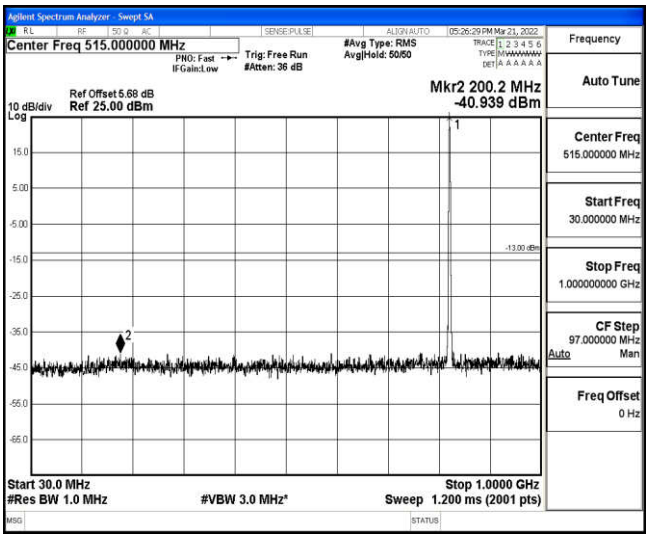
Band5-1.4MHz-QPSK-20407-1RB#0-Range1:0.009~0.15MHz



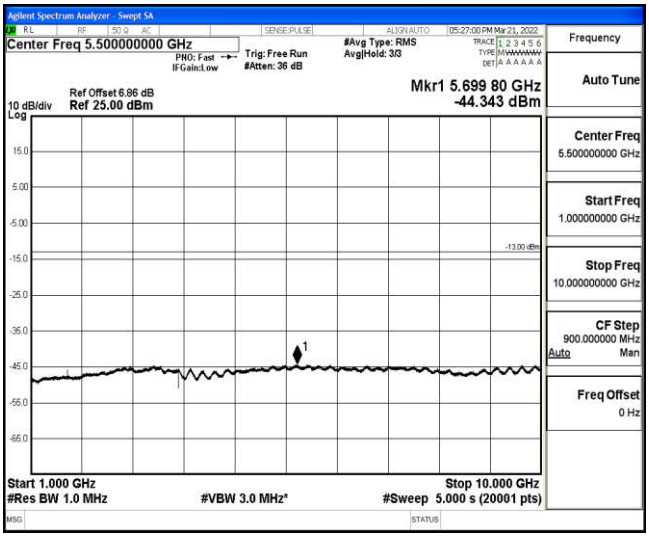

Band5-1.4MHz-QPSK-20407-1RB#0-Range2:0.15~30MHz



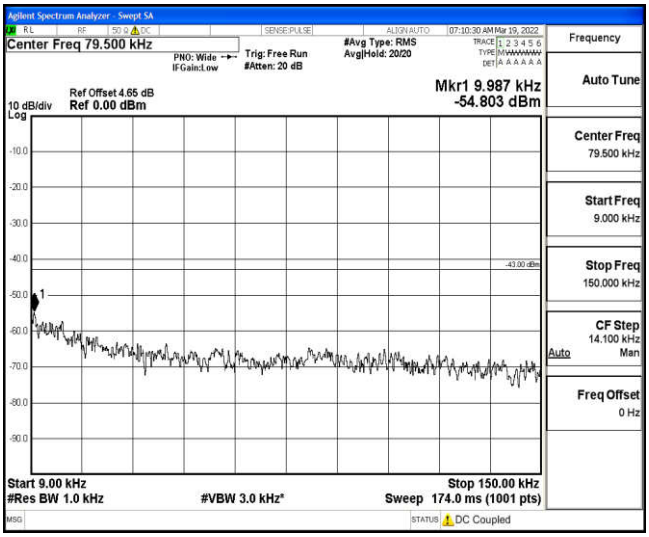

Band5-1.4MHz-QPSK-20407-1RB#0-Range3:30~1000MHz



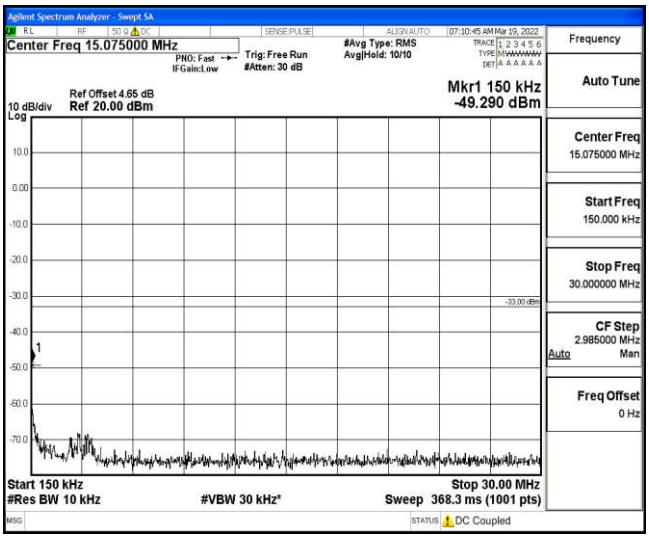

Band5-1.4MHz-QPSK-20407-1RB#0-Range4:1000~10000MHz



Band5-1.4MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz




Band5-1.4MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz




Band5-1.4MHz-QPSK-20525-1RB#0-Range3:30~1000MHz