# Appendix I: Test Data for E-UTRA Band 7

**Product Name: Smartphone**

**Test Model: NET ALPHA**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 23.8° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Taylor Hu |
| Supervised by: | Ling Zhu |

# I.1 Conducted Power Output Data

## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 22.97 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 21.43 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#12 | 22.87 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#12 | 21.21 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#24 | 22.79 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#24 | 21.10 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#0 | 22.48 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#0 | 20.94 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#6 | 22.48 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#6 | 20.94 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#13 | 22.37 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#13 | 20.83 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 22.31 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 20.99 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 22.72 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 22.18 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#12 | 22.74 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#12 | 22.12 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#24 | 22.76 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#24 | 22.15 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#0 | 22.49 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#0 | 21.10 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#6 | 22.50 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#6 | 21.04 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#13 | 22.32 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#13 | 21.03 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 22.36 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 21.04 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 22.90 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 21.50 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#12 | 22.86 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#12 | 21.41 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#24 | 22.88 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#24 | 21.49 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#0 | 22.55 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| Band7 | 5MHz | 16QAM | 21425 | 12RB#0 | 21.05 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#6 | 22.56 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#6 | 21.04 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#13 | 22.51 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#13 | 20.98 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 22.47 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 21.07 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 22.89 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 21.79 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#24 | 22.70 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24 | 21.68 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#49 | 23.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49 | 21.54 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#0 | 22.33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0 | 20.81 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#12 | 22.33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 20.81 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#25 | 22.24 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 20.78 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 22.24 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 20.88 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 22.81 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 21.90 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#24 | 22.75 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24 | 21.87 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#49 | 22.75 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49 | 21.75 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#0 | 22.51 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0 | 21.13 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#12 | 22.36 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 21.14 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#25 | 22.40 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 21.09 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 22.32 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 21.03 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 22.78 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 21.82 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#24 | 22.83 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24 | 22.04 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#49 | 22.73 | PASS |

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|---|---|---|---|---|---|---|
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49 | 21.92 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#0 | 22.27 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0 | 20.83 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#12 | 22.28 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 20.83 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#25 | 22.30 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 20.96 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 22.51 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 20.95 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 22.79 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 21.89 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#38 | 22.69 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38 | 21.66 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#74 | 22.59 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74 | 21.79 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 38RB#0 | 22.36 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#0 | 22.33 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 38RB#18 | 22.35 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#18 | 22.52 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 38RB#37 | 22.17 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#37 | 22.25 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 22.31 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 21.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 22.68 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 22.13 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#38 | 22.74 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38 | 22.06 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#74 | 22.62 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74 | 21.99 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 38RB#0 | 22.35 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#0 | 22.41 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 38RB#18 | 22.42 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#18 | 22.42 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 38RB#37 | 22.40 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#37 | 22.42 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 22.42 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 20.97 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 22.72 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 22.40 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#38 | 22.81 | PASS |

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|---|---|---|---|---|---|---|
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38 | 22.43 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#74 | 22.72 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74 | 22.39 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 38RB#0 | 22.38 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#0 | 22.38 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 38RB#18 | 22.37 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#18 | 22.38 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 38RB#37 | 22.38 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#37 | 22.37 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 22.37 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 20.96 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 22.94 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 21.54 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#49 | 22.82 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49 | 21.44 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#99 | 22.78 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99 | 21.46 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#0 | 22.38 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0 | 20.99 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#25 | 22.50 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 21.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#50 | 22.27 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 20.98 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 22.18 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 20.81 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 23.11 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 22.06 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#49 | 23.13 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49 | 22.06 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#99 | 23.14 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99 | 22.04 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#0 | 22.59 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0 | 21.06 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#25 | 22.41 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 21.05 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#50 | 22.43 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 20.94 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 22.43 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 20.95 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 22.73 | PASS |

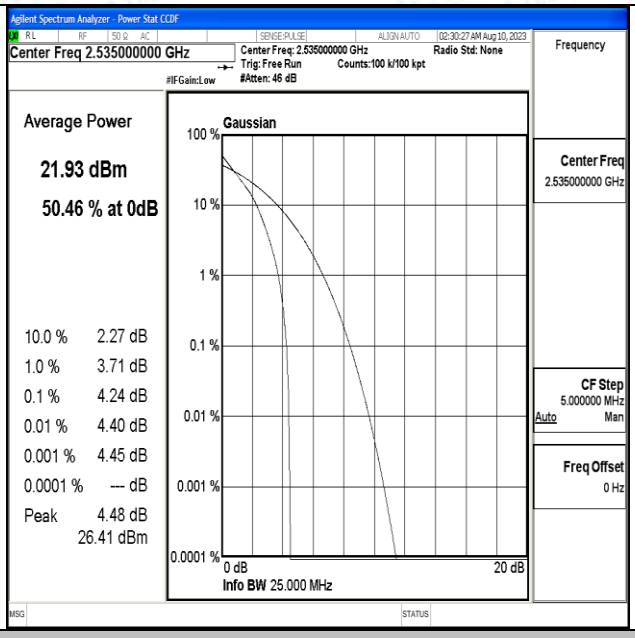
| | | | | | | |
|---|---|---|---|---|---|---|
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 22.16 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#49 | 22.62 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49 | 22.10 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#99 | 22.64 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99 | 22.09 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#0 | 22.32 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0 | 21.06 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#25 | 22.32 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 21.02 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#50 | 22.37 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 21.25 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 22.35 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 20.88 | PASS |

# I.2 Peak-to-Average Ratio(CCDF)

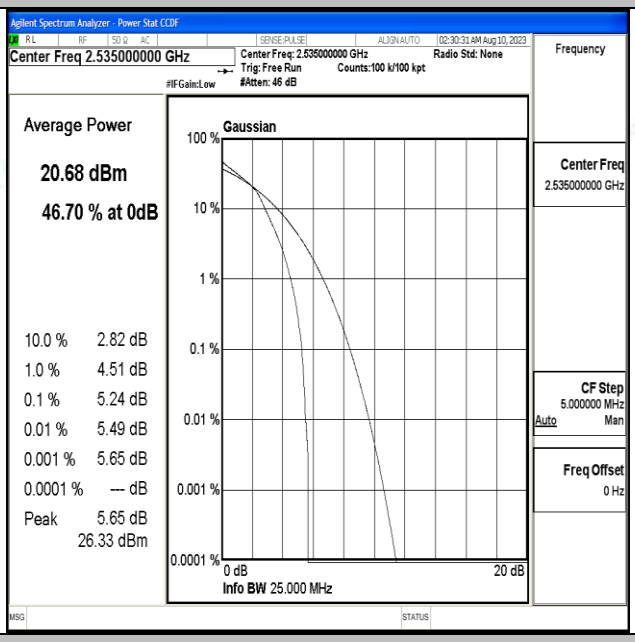
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 4.24 | 13 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 5.24 | 13 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 3.45 | 13 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 4.64 | 13 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 4.87 | 13 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 5.73 | 13 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 4.31 | 13 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 5.38 | 13 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 3.82 | 13 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 4.93 | 13 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 5.24 | 13 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 5.99 | 13 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 4.72 | 13 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 5.57 | 13 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 4.60 | 13 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 5.50 | 13 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 5.10 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 5.93 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 4.78 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 5.69 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 4.78 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 5.66 | 13 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 4.58 | 13 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 5.55 | 13 | PASS |

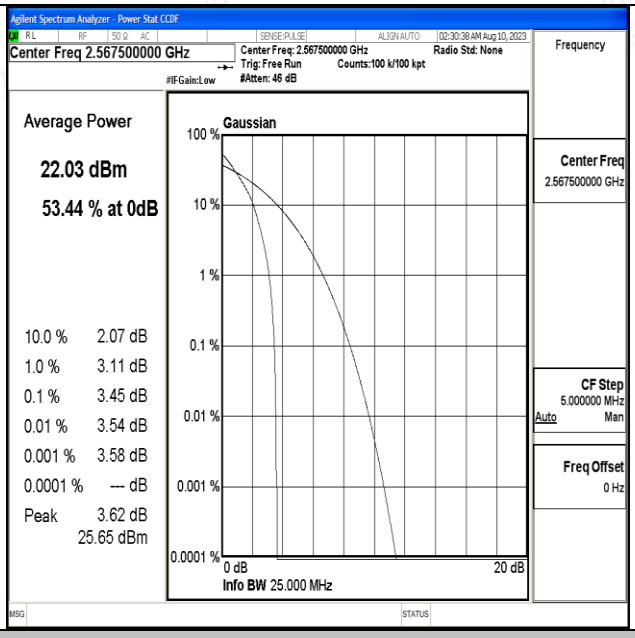
## Test Graphs



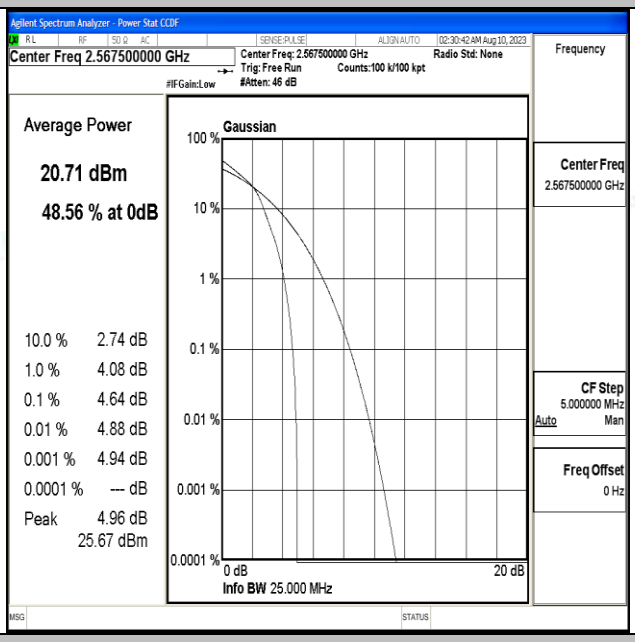

5MHz-21100



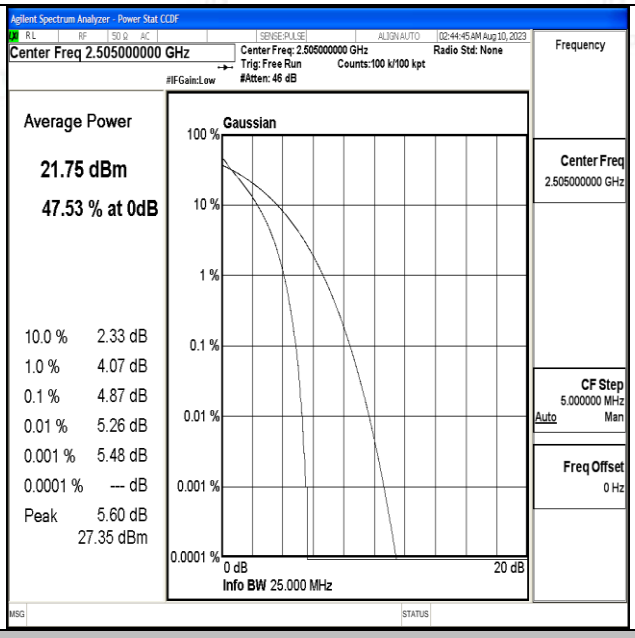

5MHz-21100



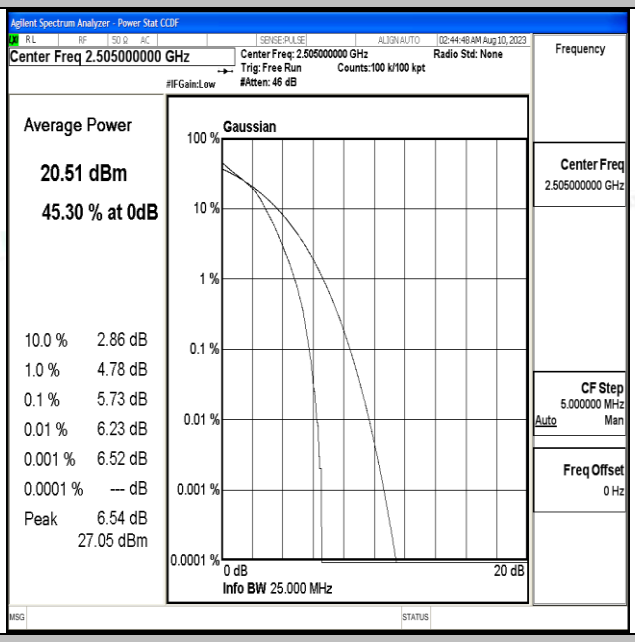

5MHz-21425



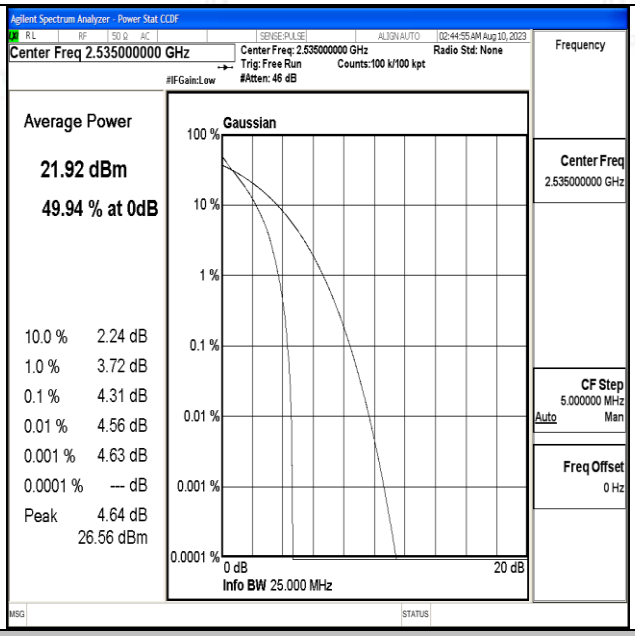

5MHz-21425



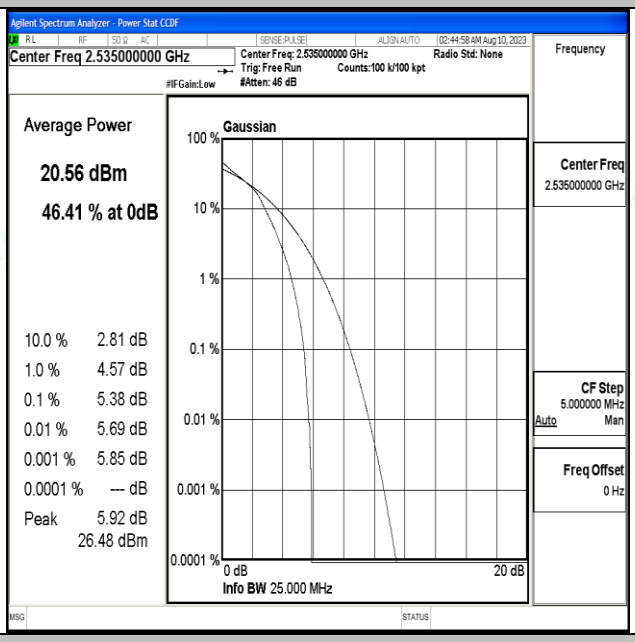

10MHz-20800



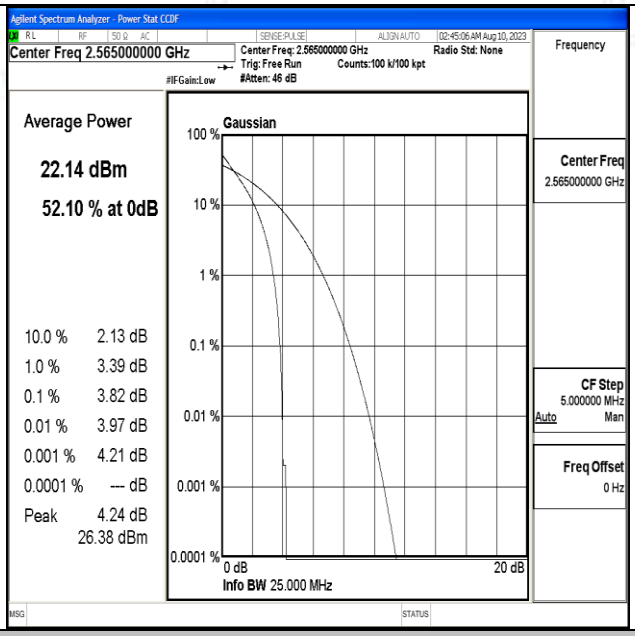

10MHz-20800



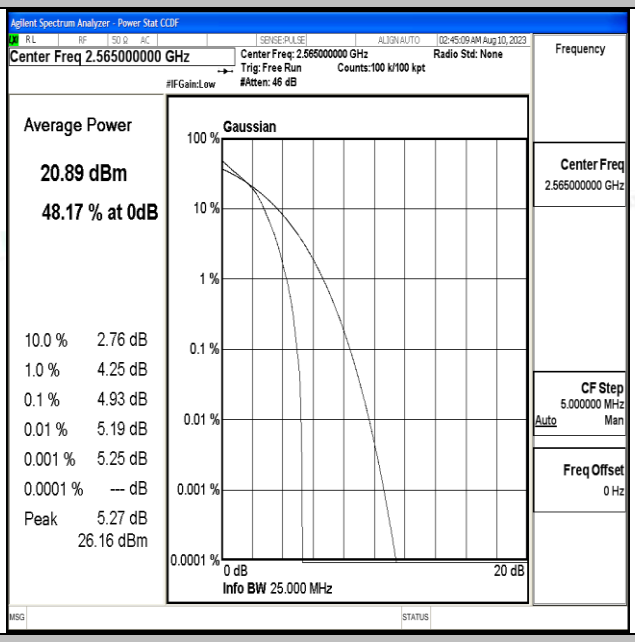

10MHz-21100



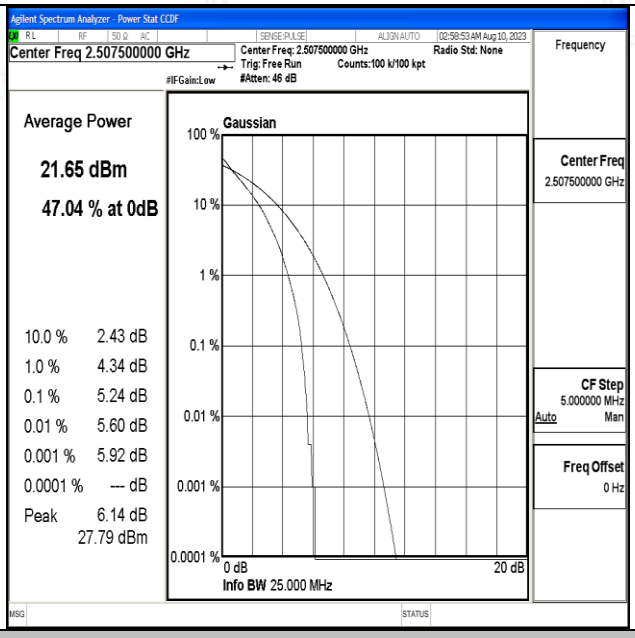

10MHz-21100



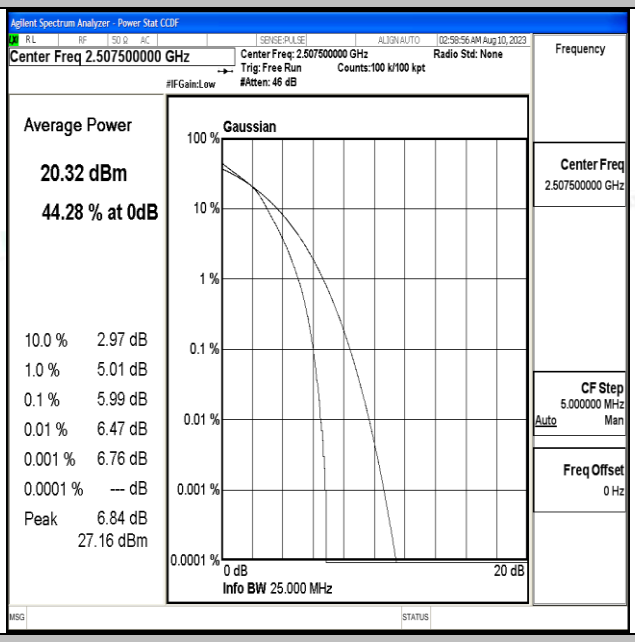

10MHz-21400



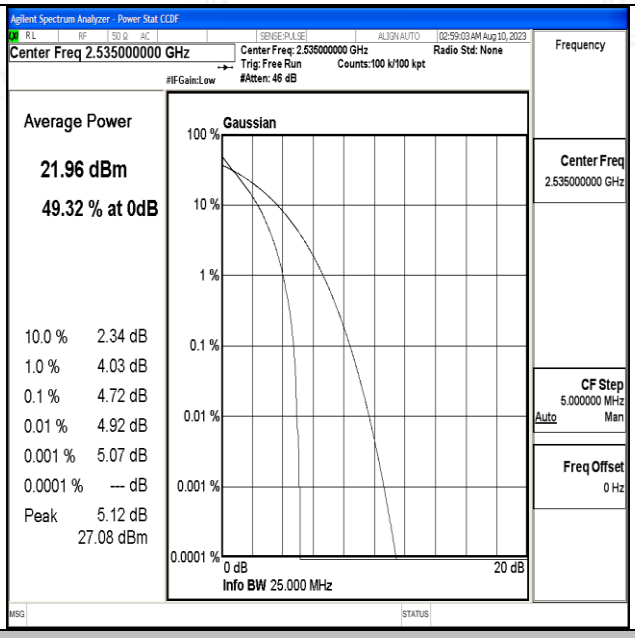

10MHz-21400



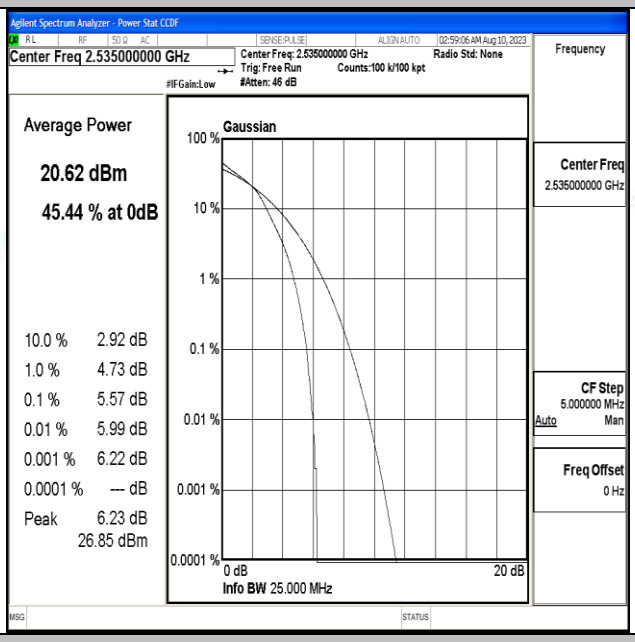

15MHz-20825



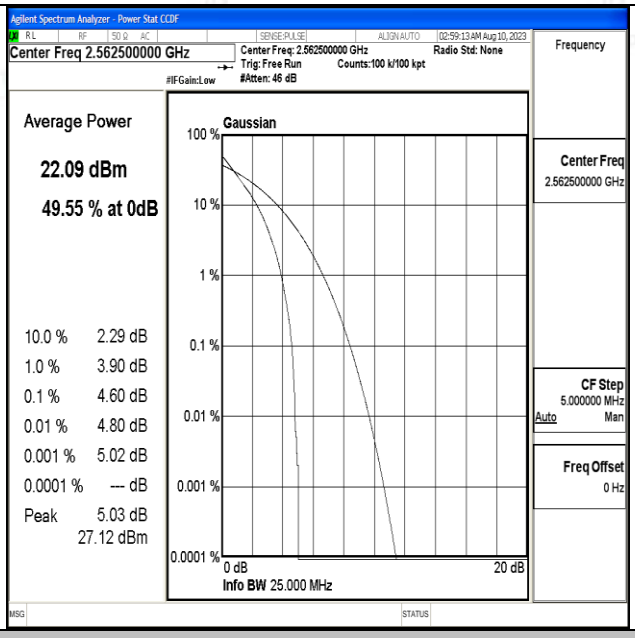

15MHz-20825



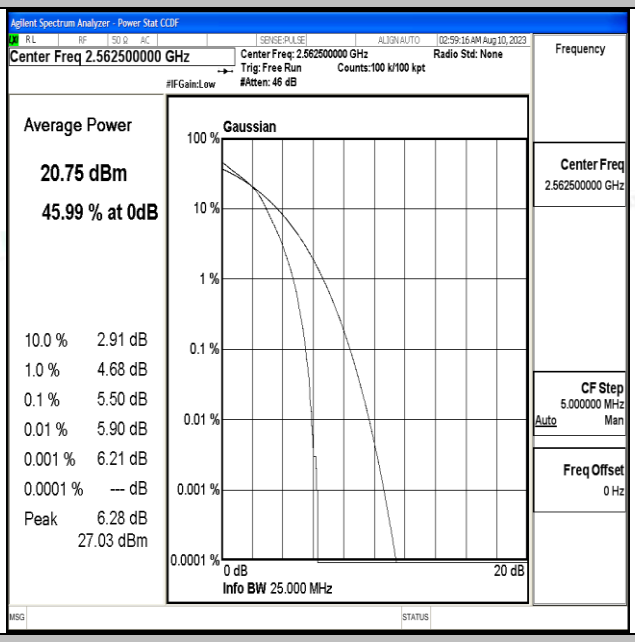

15MHz-21100



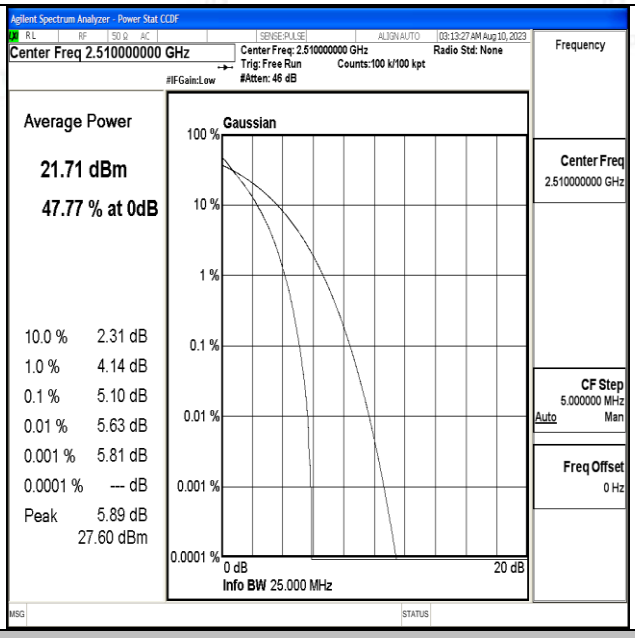

15MHz-21100



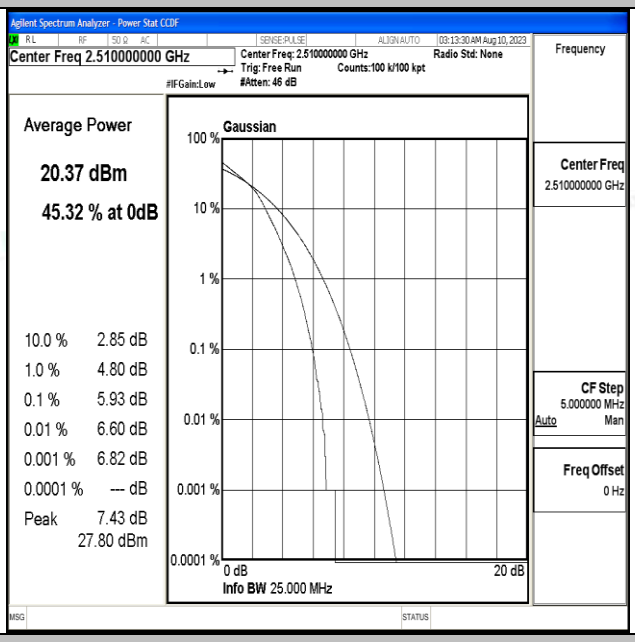

15MHz-21375



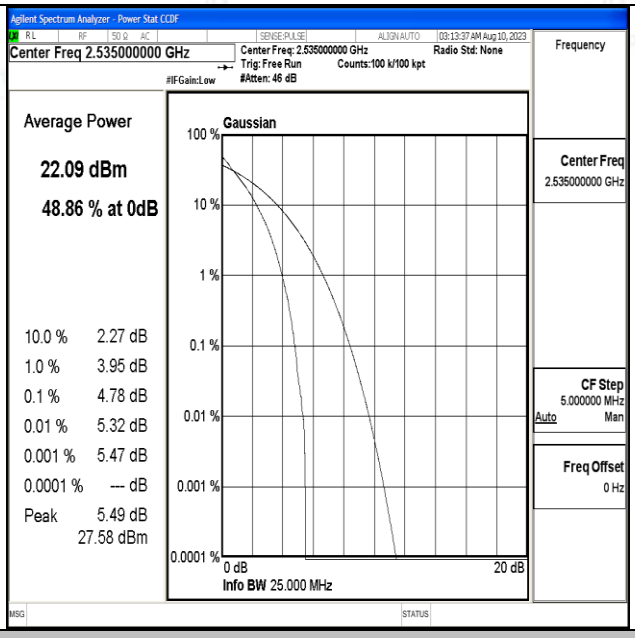

15MHz-21375



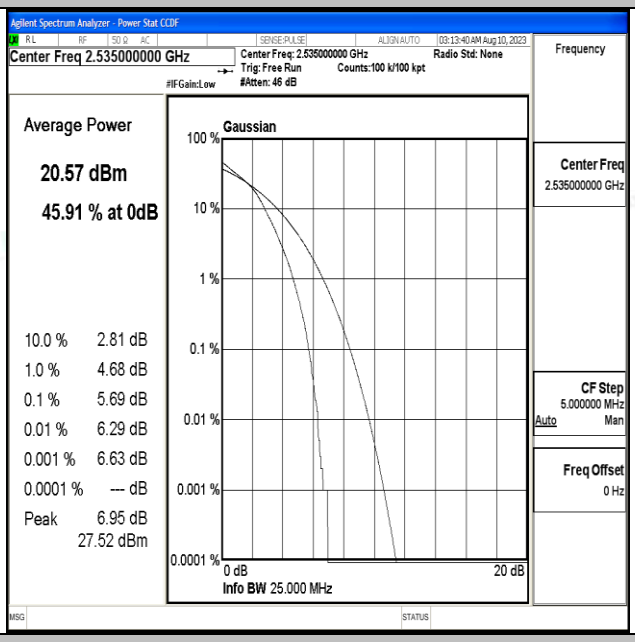

20MHz-20850



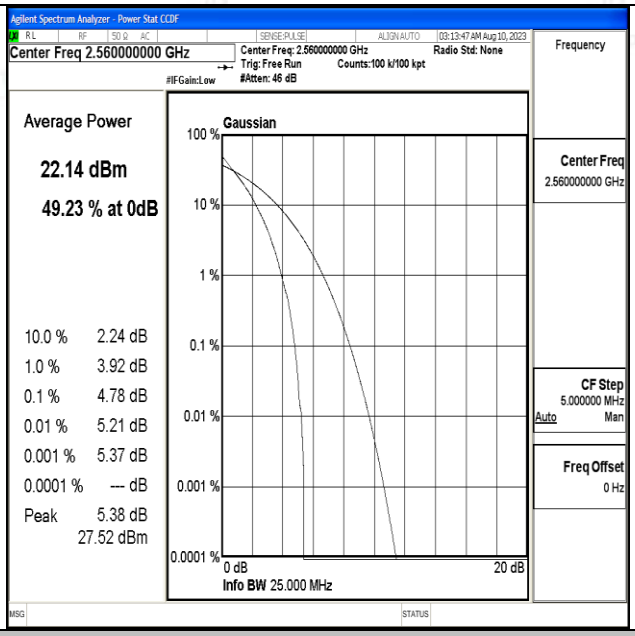

20MHz-20850



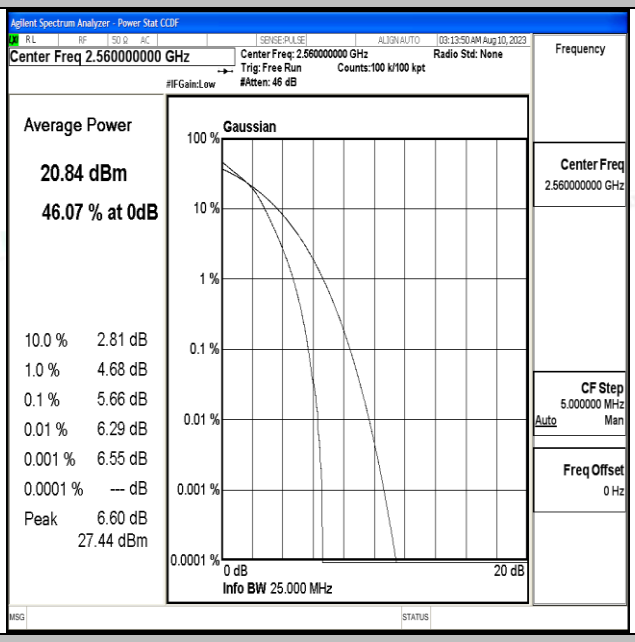

20MHz-21100



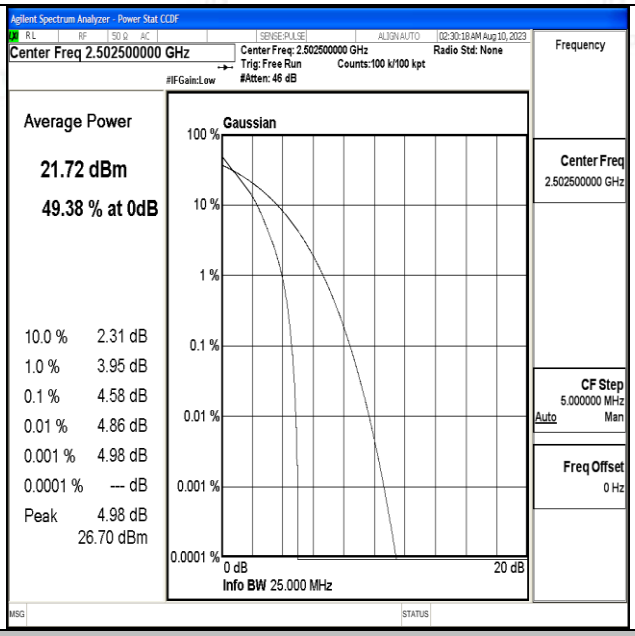

20MHz-21100



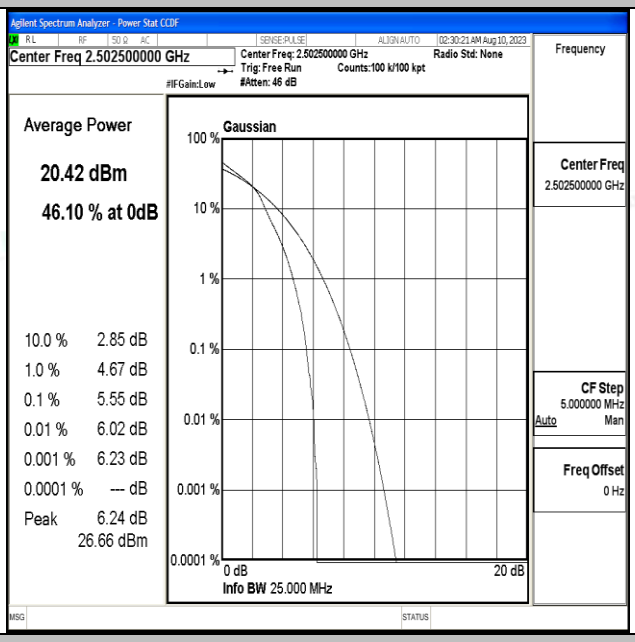

20MHz-21350




20MHz-21350




5MHz-20775



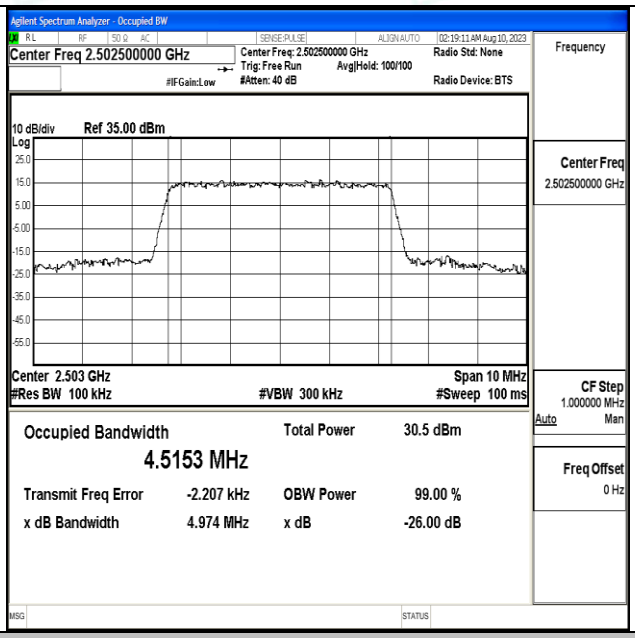

5MHz-20775

# I.3 26dB Bandwidth and Occupied Bandwidth

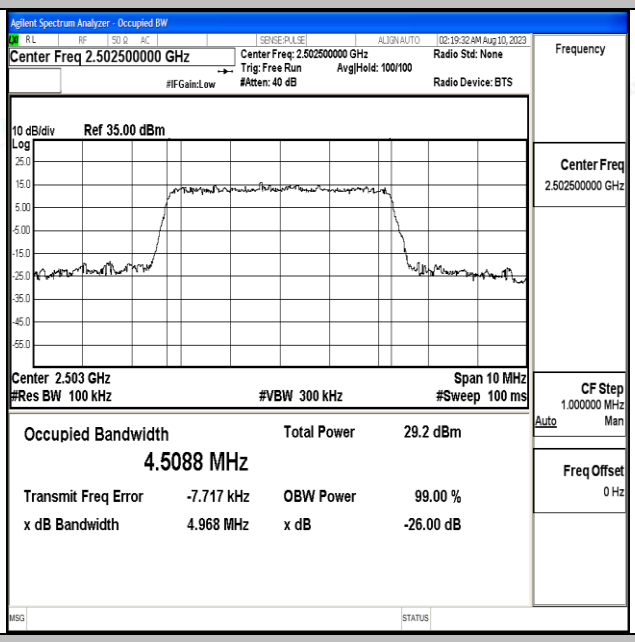
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 4.5153 | 4.974 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 4.5088 | 4.968 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 4.5345 | 4.997 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 4.5182 | 5.000 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 4.5147 | 4.971 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 4.5397 | 5.015 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 9.0068 | 9.882 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 9.0081 | 9.948 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 9.0148 | 9.946 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 9.0032 | 9.909 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 9.0103 | 9.886 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 9.0018 | 9.939 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 13.534 | 14.91 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 13.510 | 14.93 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 13.513 | 15.02 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 13.520 | 14.93 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 13.476 | 15.06 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 13.478 | 14.91 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 17.988 | 19.62 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 18.075 | 19.77 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 18.014 | 19.68 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 18.021 | 19.90 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 18.022 | 19.72 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 17.961 | 19.64 | PASS |

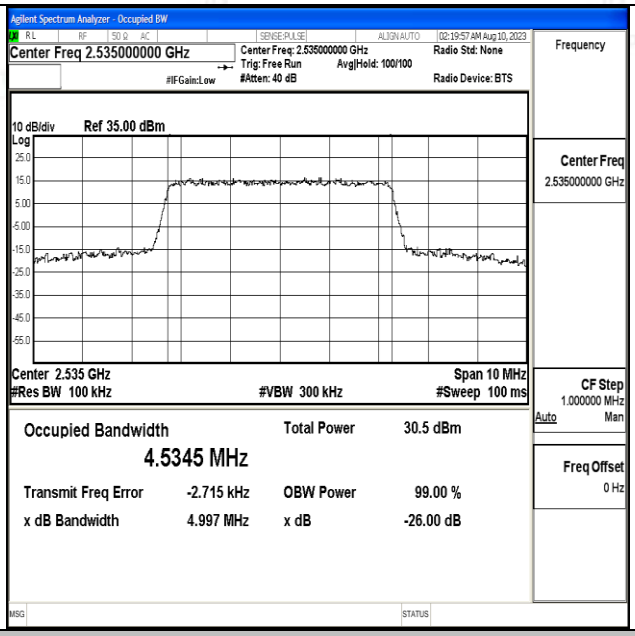
## Test Graphs



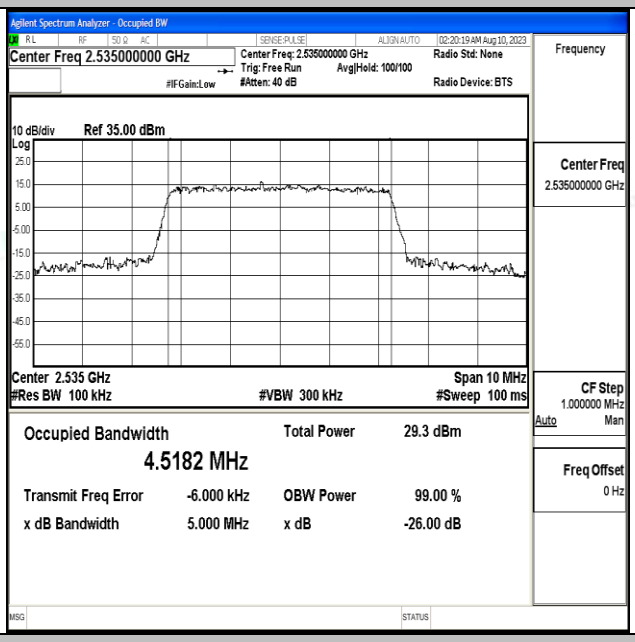

5MHz-20775



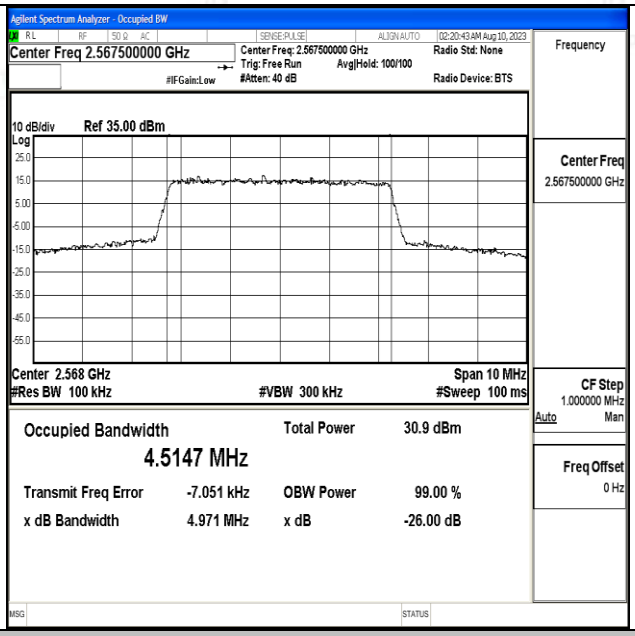

5MHz-20775



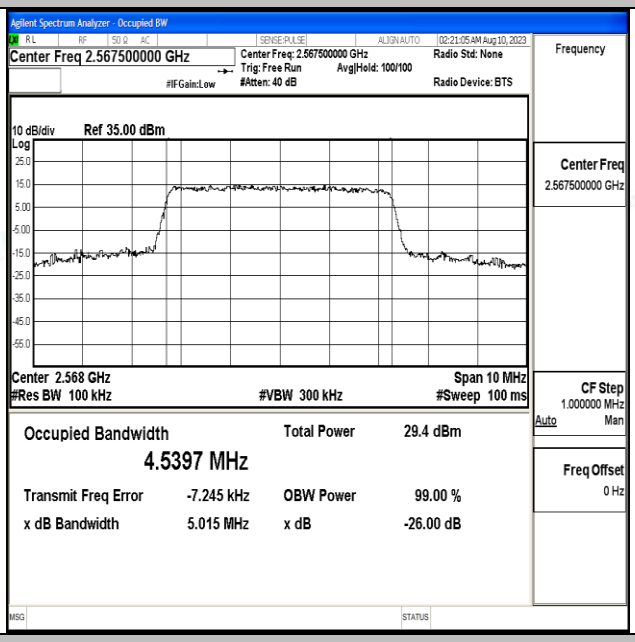

5MHz-21100



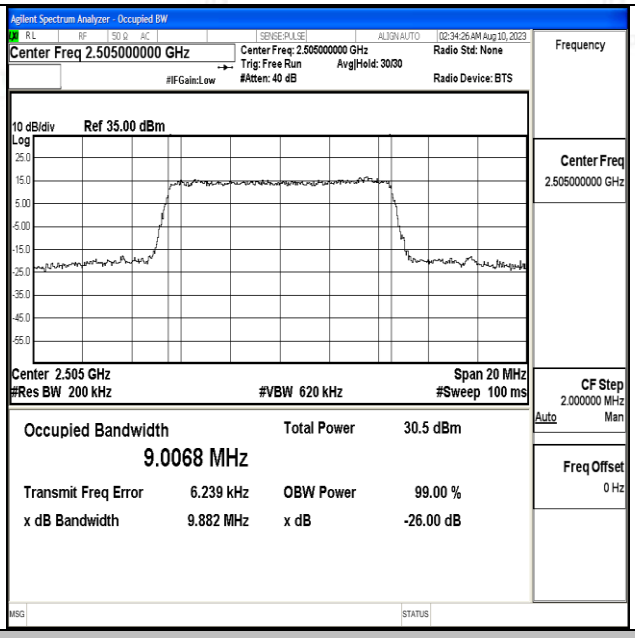

5MHz-21100



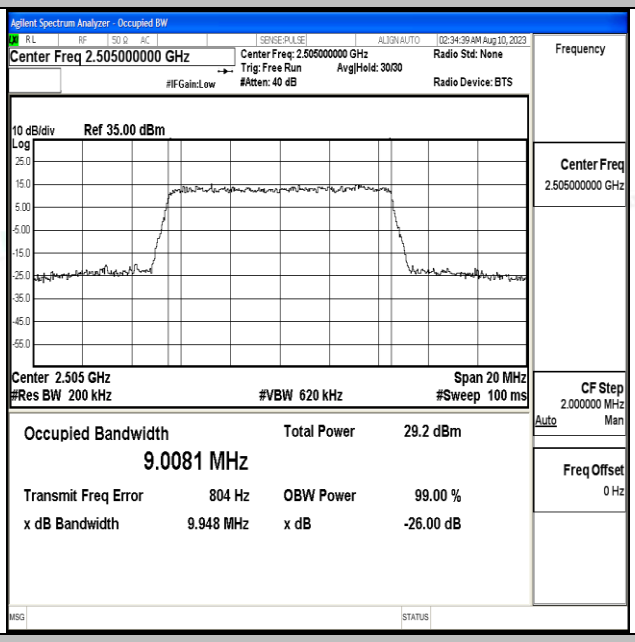

5MHz-21425



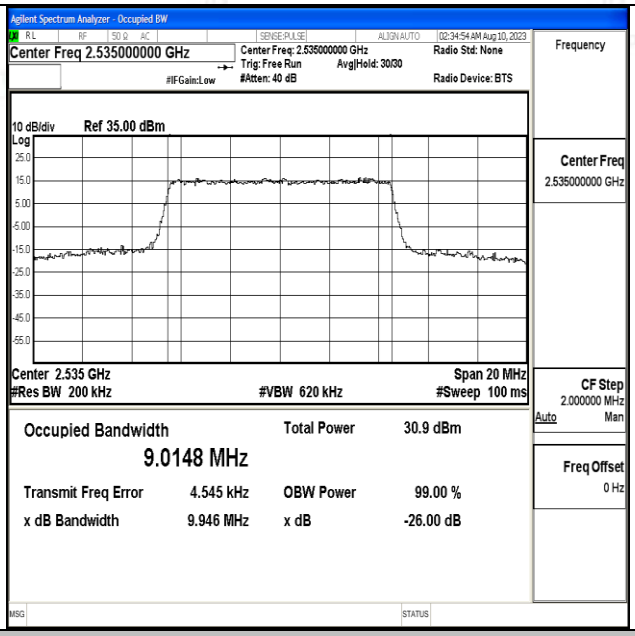

5MHz-21425



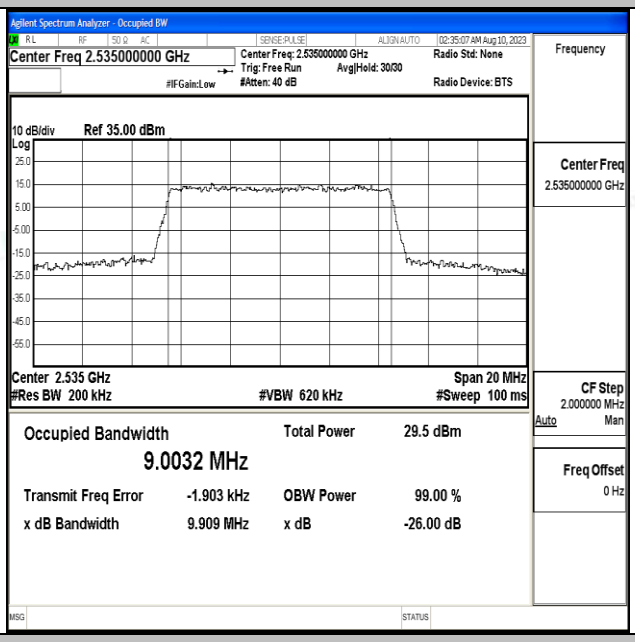

10MHz-20800



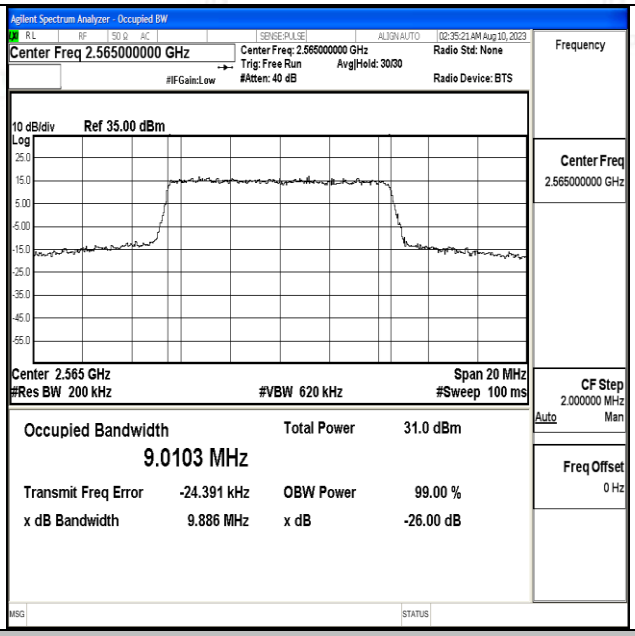

10MHz-20800



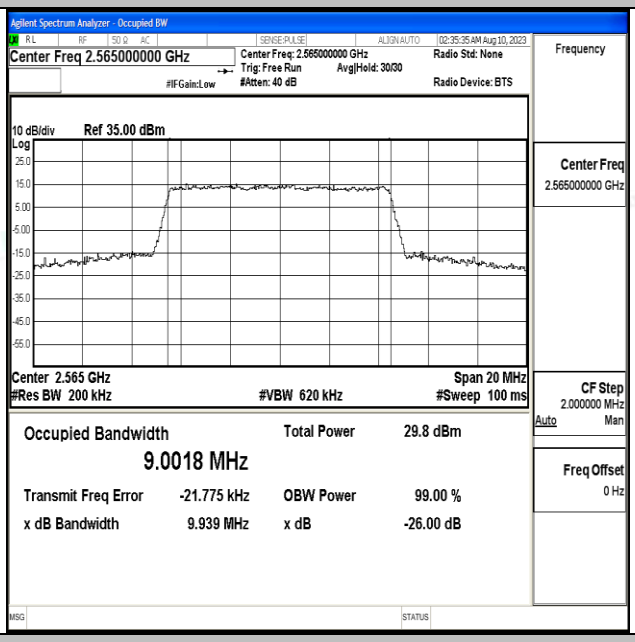

10MHz-21100



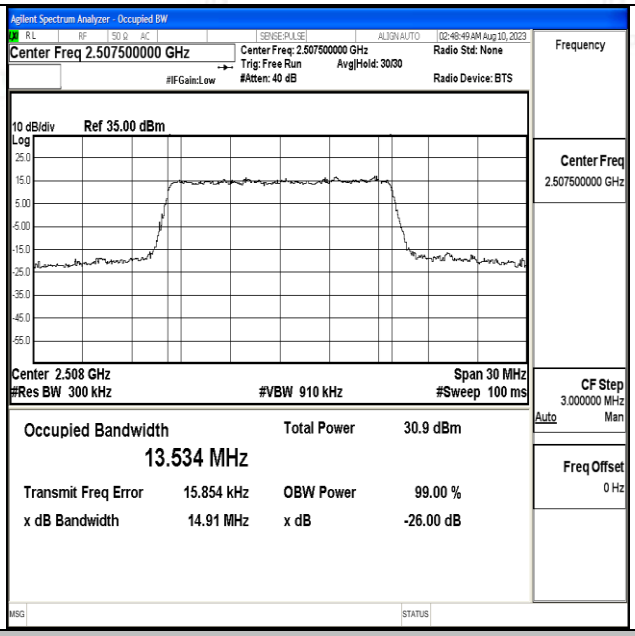

10MHz-21100



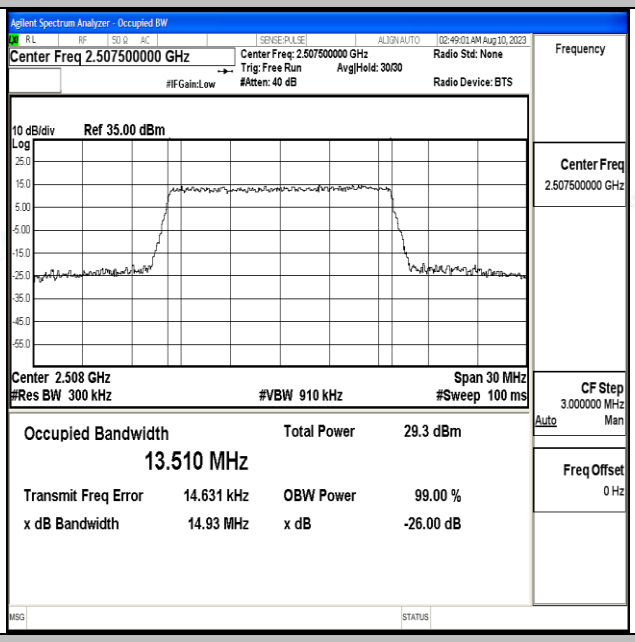

10MHz-21400



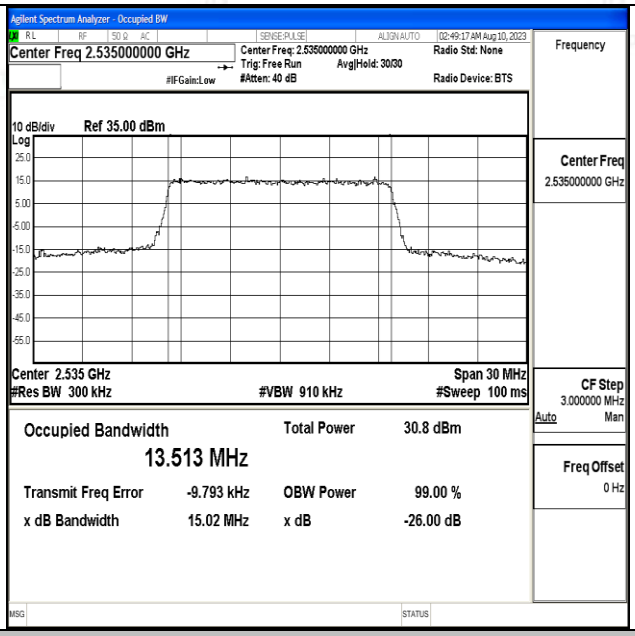

10MHz-21400



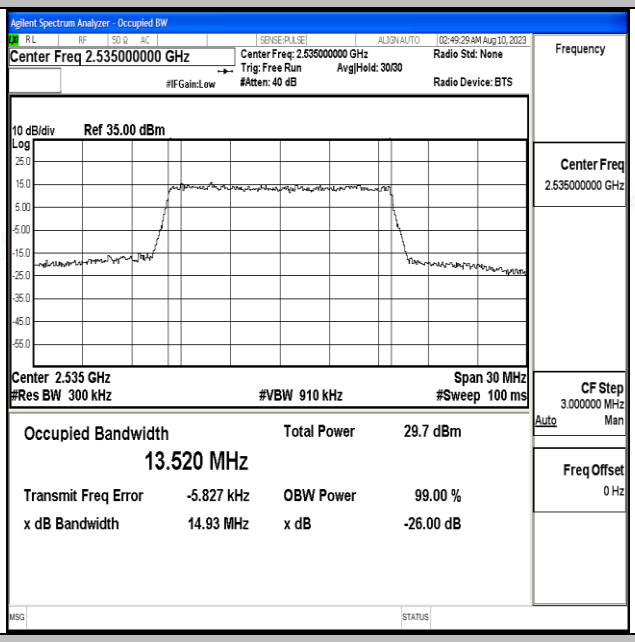

15MHz-20825



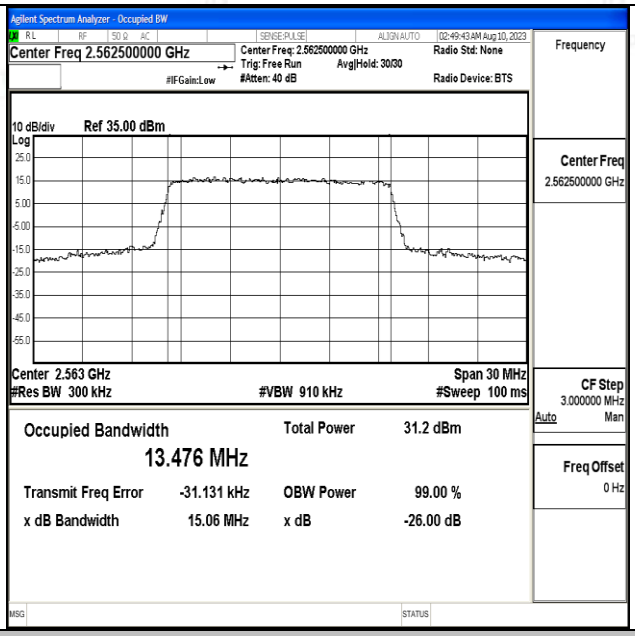

15MHz-20825



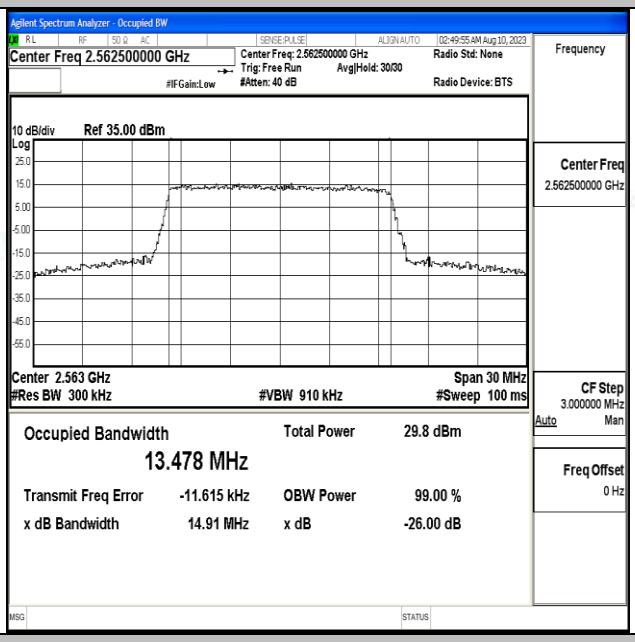

15MHz-21100



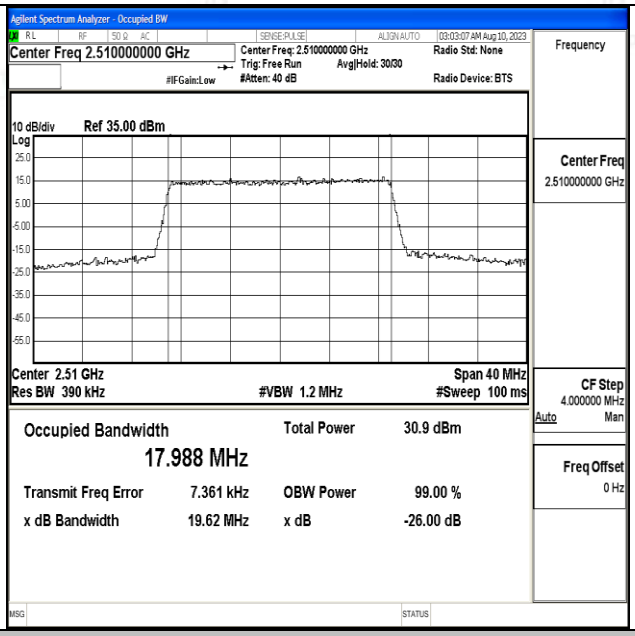

15MHz-21100



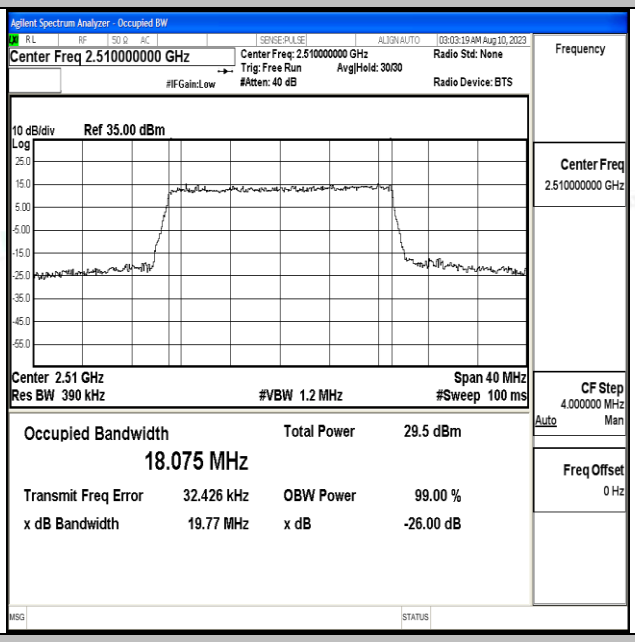

15MHz-21375



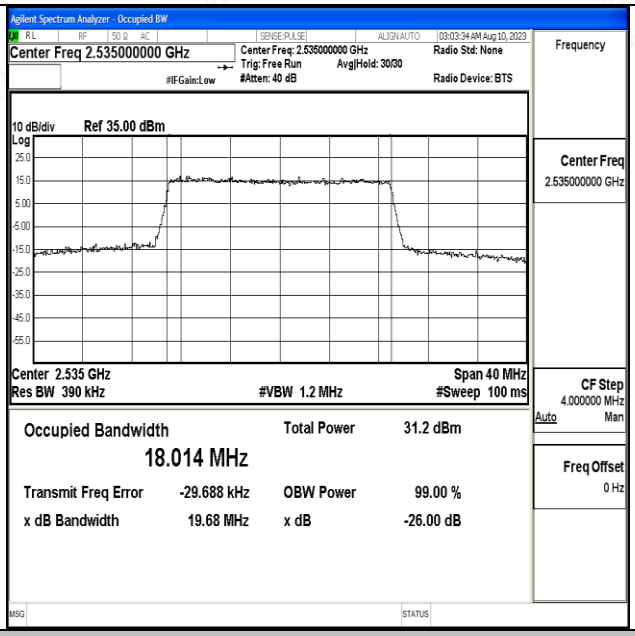

15MHz-21375



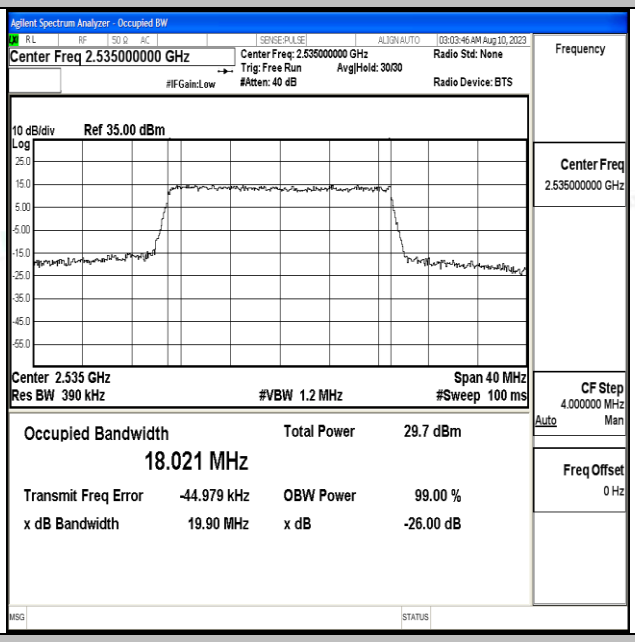

20MHz-20850



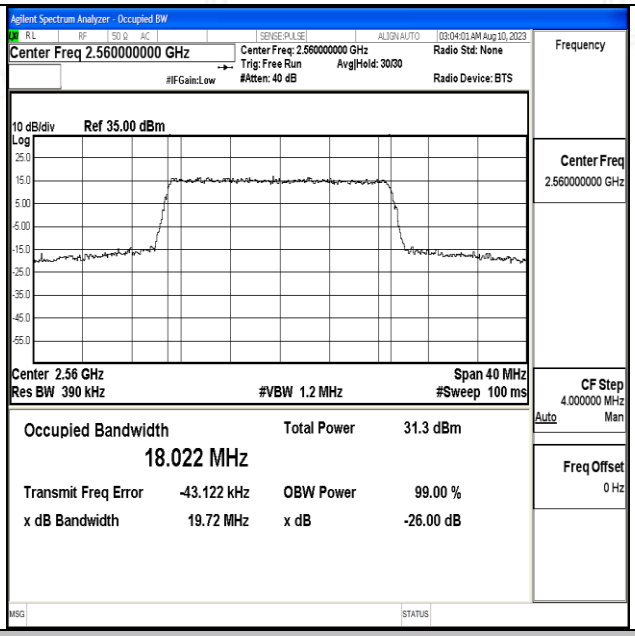

20MHz-20850



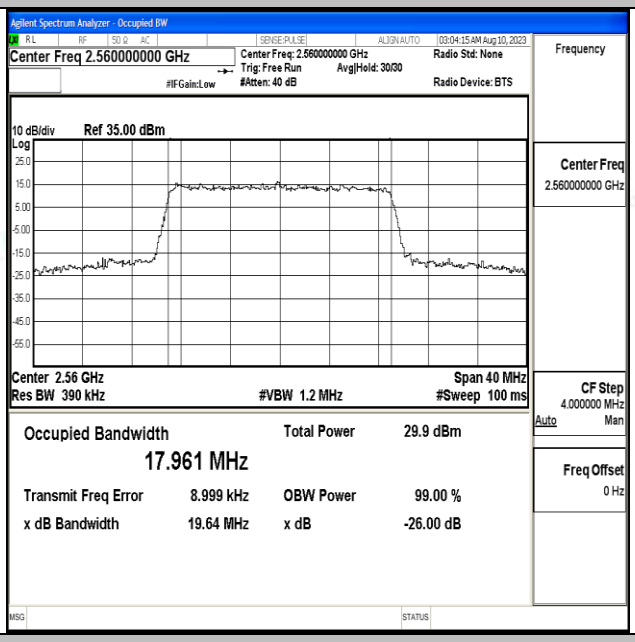

20MHz-21100




20MHz-21100




20MHz-21350



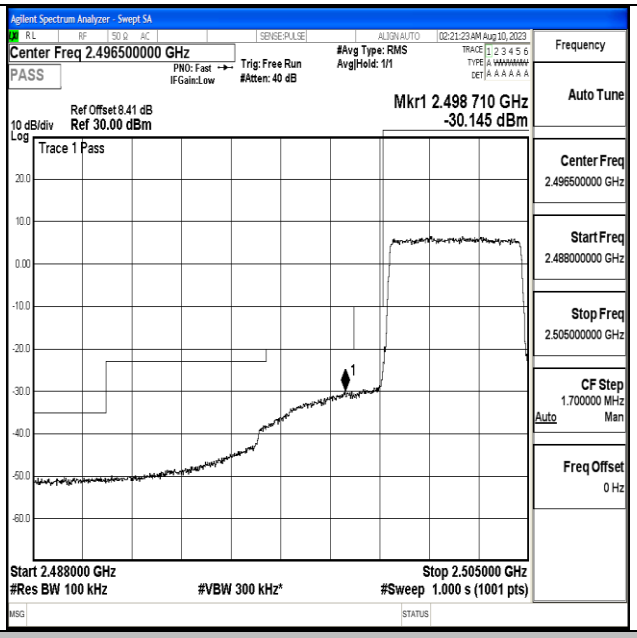

20MHz-21350

# I.4 Band Edge

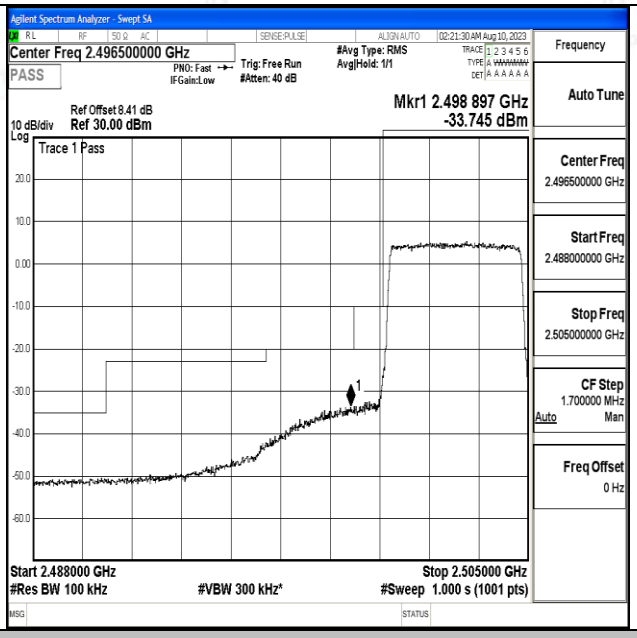
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Peak Frenquency | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 2498.71 | -30.15 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 2498.90 | -33.75 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 2571.02 | -23.42 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 2571.20 | -27.82 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 2489.90 | -45.34 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 2489.88 | -46.68 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 2571.08 | -23.78 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 2571.20 | -28.04 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 2493.90 | -29.78 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 2493.83 | -33.40 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 2575.02 | -27.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 2585.21 | -43.97 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 2494.98 | -31.06 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 2477.57 | -45.53 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 2575.34 | -28.45 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 2590.23 | -44.48 | PASS |

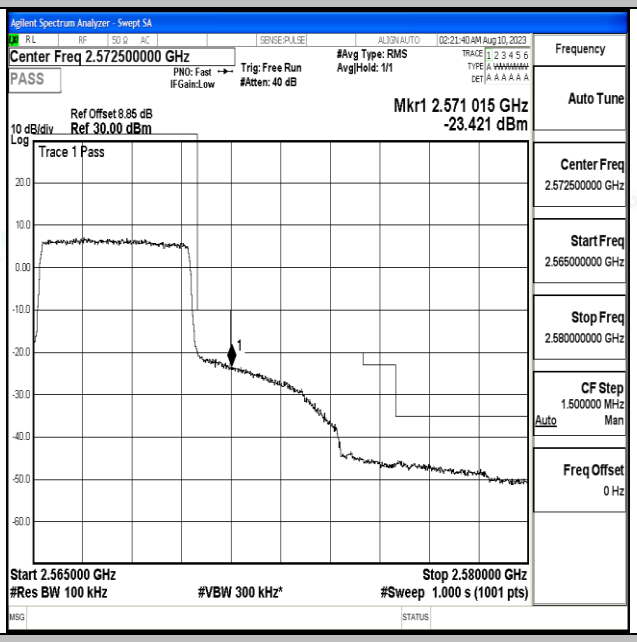
## Test Graphs



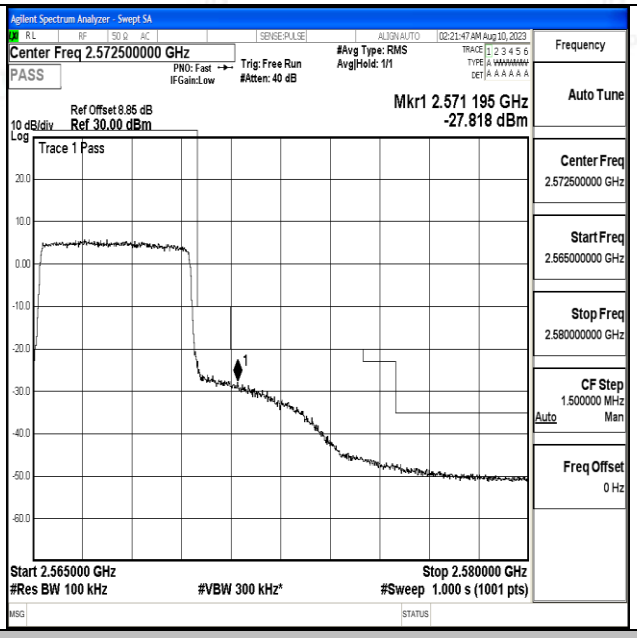

Band7_5MHz_QPSK_20775_25RB#0



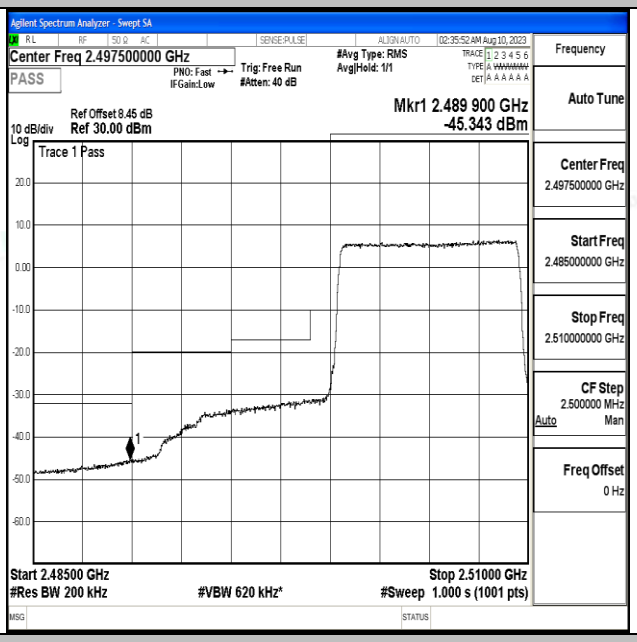

Band7_5MHz_16QAM_20775_25RB#0



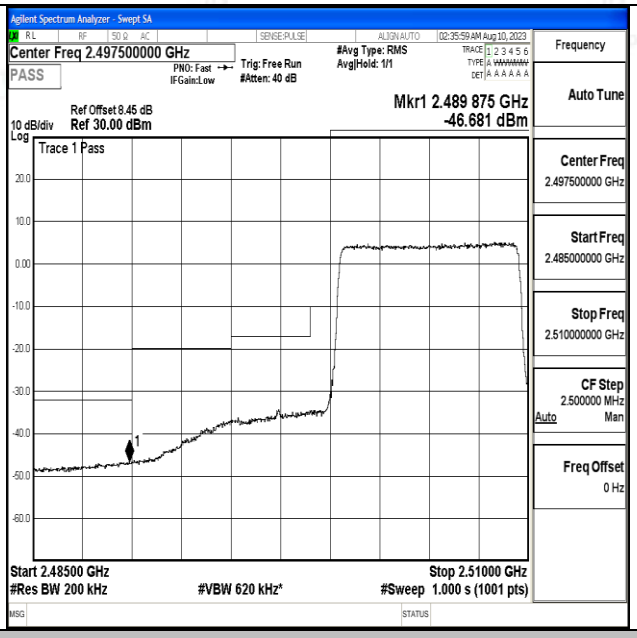

Band7_5MHz_QPSK_21425_25RB#0



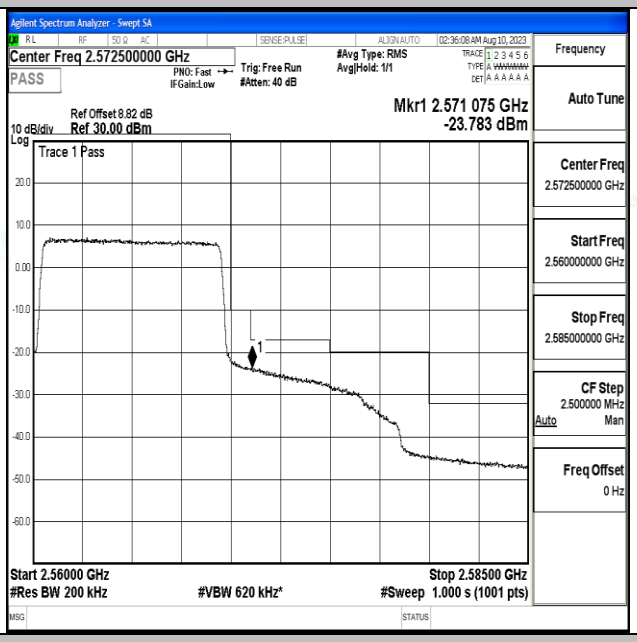

Band7_5MHz_16QAM_21425_25RB#0



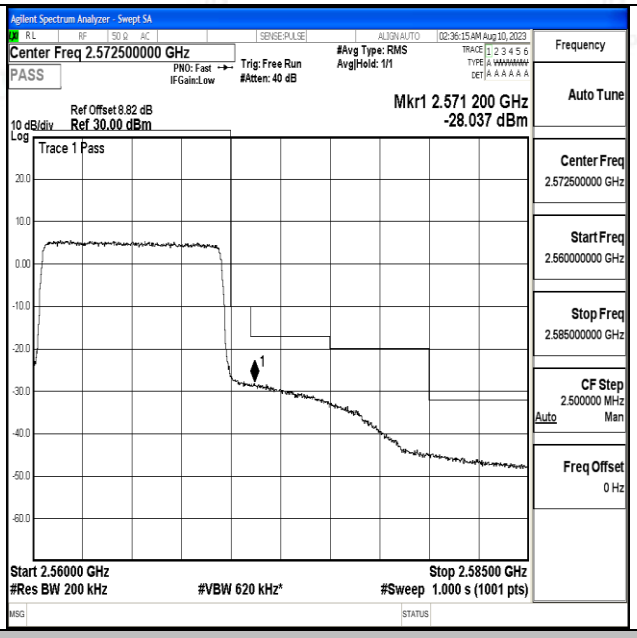

Band7_10MHz_QPSK_20800_50RB#0



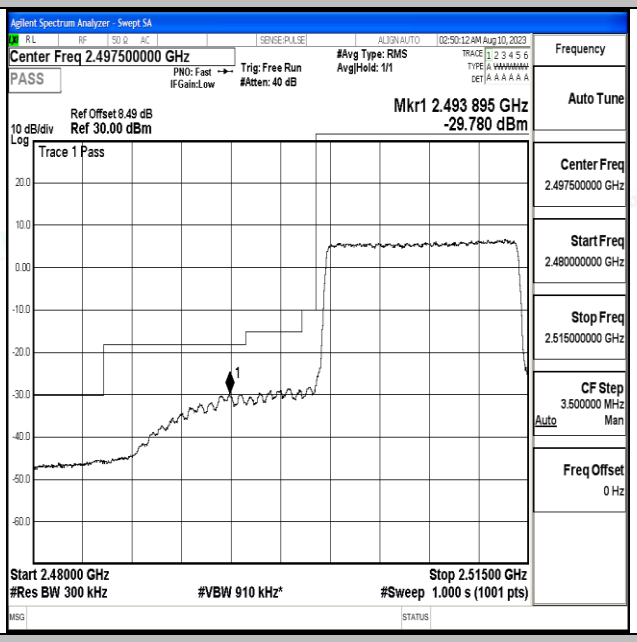

Band7_10MHz_16QAM_20800_50RB#0



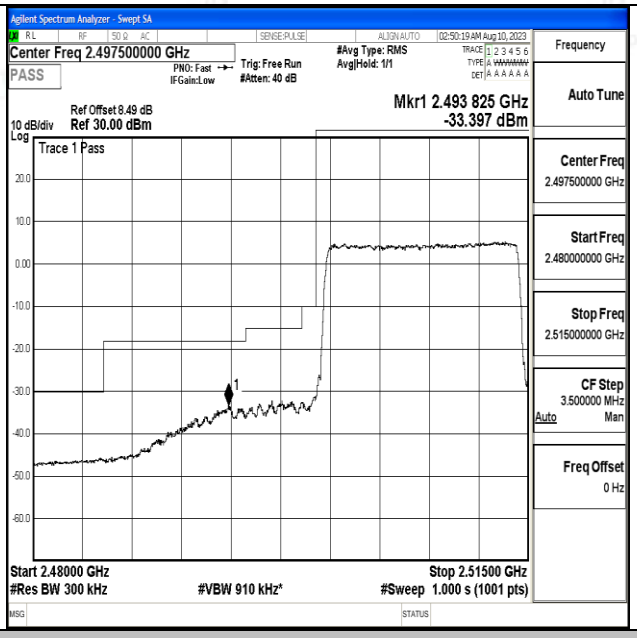

Band7_10MHz_QPSK_21400_50RB#0



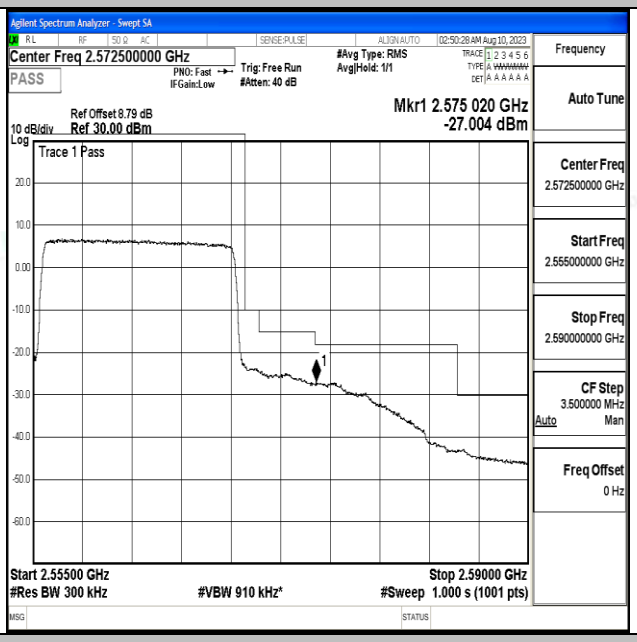

Band7_10MHz_16QAM_21400_50RB#0



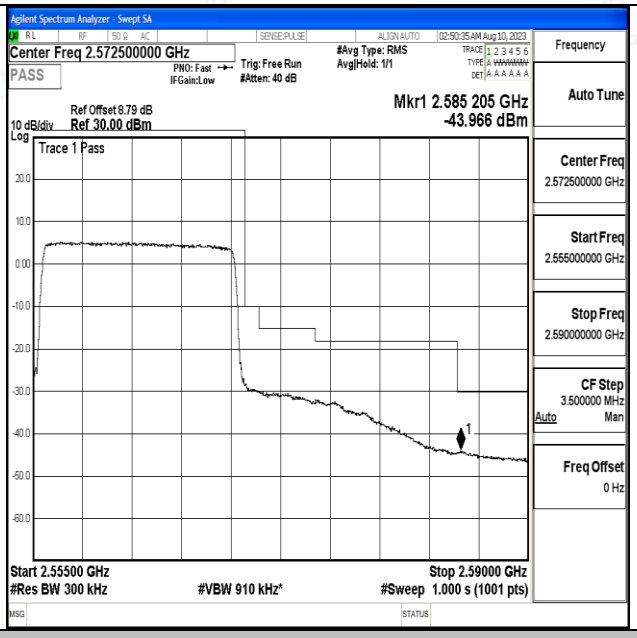

Band7_15MHz_QPSK_20825_75RB#0



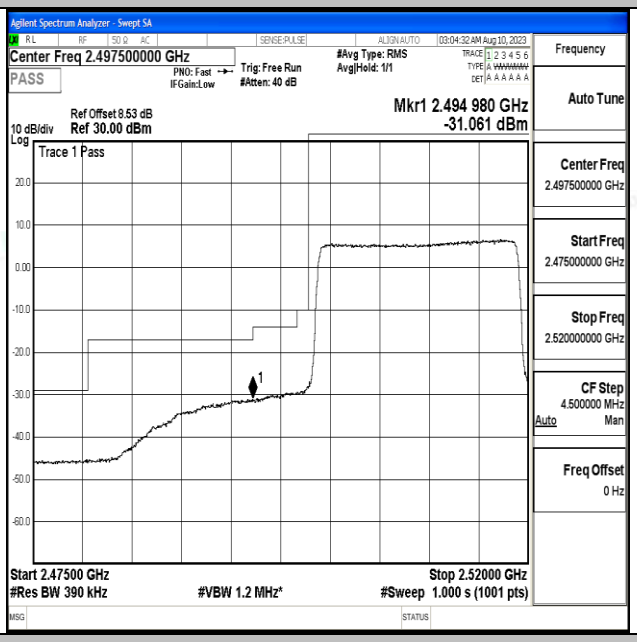

Band7_15MHz_16QAM_20825_75RB#0



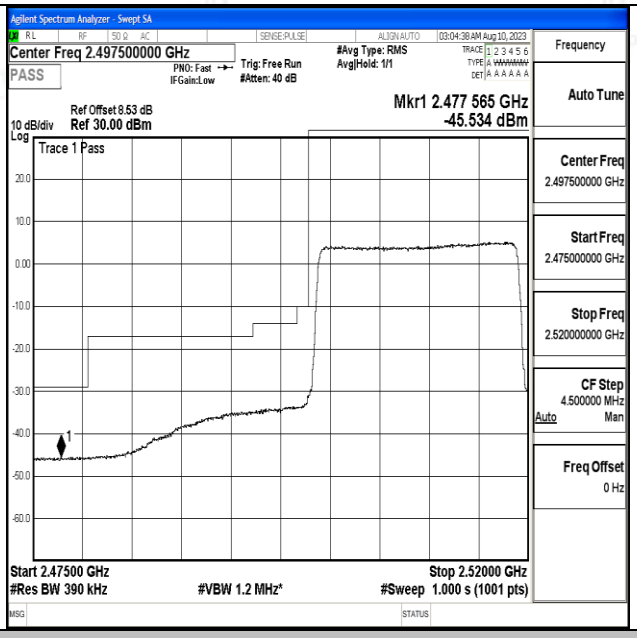

Band7_15MHz_QPSK_21375_75RB#0



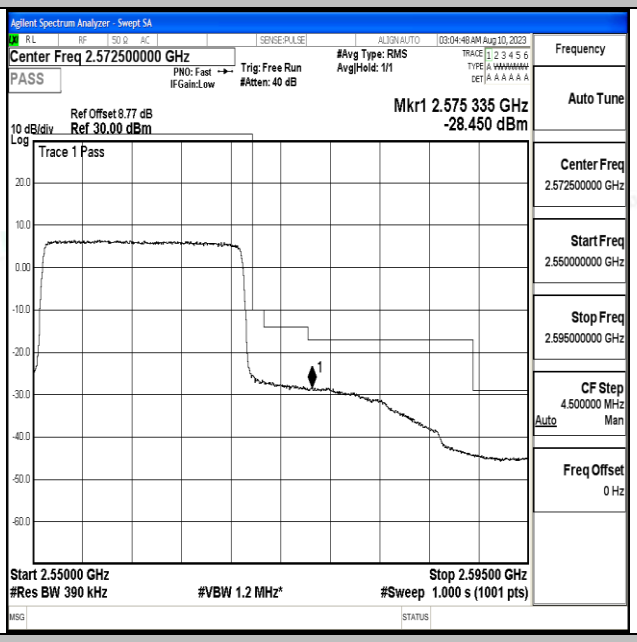

Band7_15MHz_16QAM_21375_75RB#0



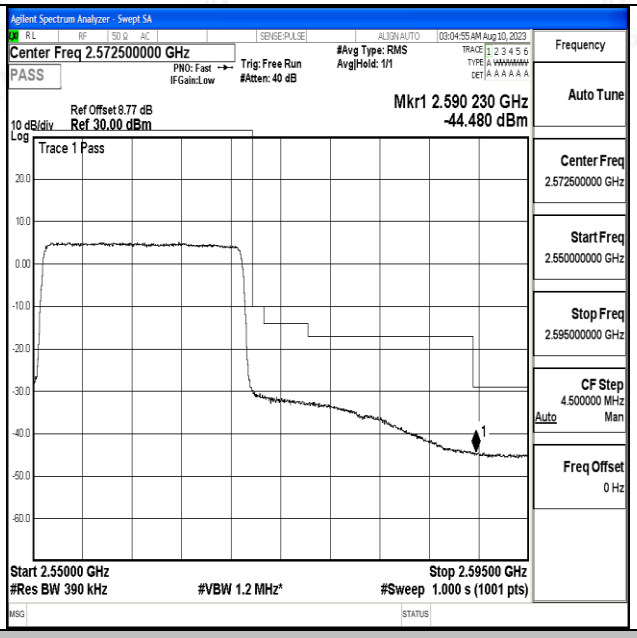

Band7_20MHz_QPSK_20850_100RB#0




Band7_20MHz_16QAM_20850_100RB#0




Band7_20MHz_QPSK_21350_100RB#0




Band7_20MHz_16QAM_21350_100RB#0

# I.5 Conducted Spurious Emission

## Test Result

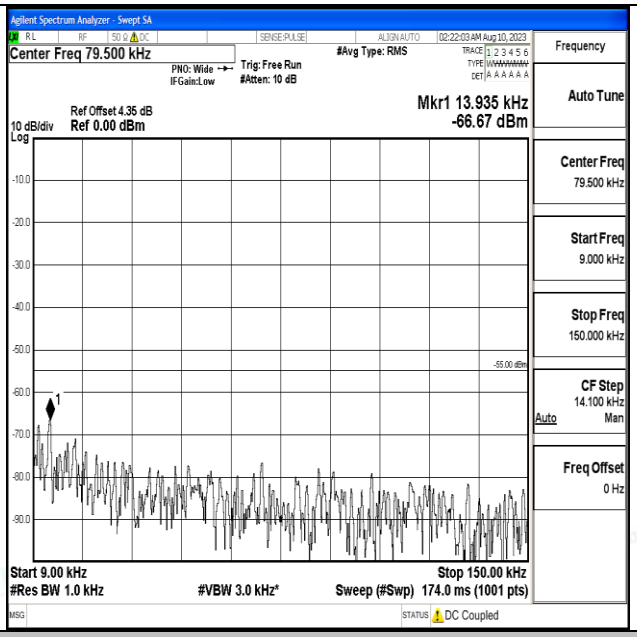
| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 0.009~0.15 | -66.67 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 0.15~30 | -53.81 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 30~1000 | -53.85 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 1000~20000 | -33.45 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 20000~27000 | -45.50 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 0.009~0.15 | -67.86 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 0.15~30 | -52.57 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 30~1000 | -53.81 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 1000~20000 | -33.39 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 20000~27000 | -45.47 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 0.009~0.15 | -68.45 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 0.15~30 | -51.10 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 30~1000 | -53.97 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 1000~20000 | -33.29 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 20000~27000 | -45.47 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 0.009~0.15 | -72.15 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 0.15~30 | -53.16 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 30~1000 | -53.84 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 1000~20000 | -33.13 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 20000~27000 | -45.50 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 0.009~0.15 | -68.73 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 0.15~30 | -53.96 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 30~1000 | -53.82 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 1000~20000 | -33.59 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 20000~27000 | -45.33 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 0.009~0.15 | -69.98 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 0.15~30 | -54.53 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 30~1000 | -53.98 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 1000~20000 | -33.31 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 20000~27000 | -45.71 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 0.009~0.15 | -70.19 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 0.15~30 | -54.29 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 30~1000 | -54.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 1000~20000 | -33.53 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 20000~27000 | -45.29 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 0.009~0.15 | -68.91 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 0.15~30 | -53.90 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 30~1000 | -53.92 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 1000~20000 | -33.57 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 20000~27000 | -45.51 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 0.009~0.15 | -66.53 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 0.15~30 | -52.33 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 30~1000 | -53.89 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 1000~20000 | -33.30 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 20000~27000 | -45.66 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 0.009~0.15 | -68.93 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 0.15~30 | -53.15 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 30~1000 | -53.94 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 1000~20000 | -33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 20000~27000 | -45.57 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 0.009~0.15 | -69.95 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 0.15~30 | -53.13 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 30~1000 | -53.90 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 1000~20000 | -32.86 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 20000~27000 | -45.51 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 0.009~0.15 | -67.17 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 0.15~30 | -53.25 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 30~1000 | -54.03 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 1000~20000 | -33.29 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 20000~27000 | -45.38 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 0.009~0.15 | -67.53 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 0.15~30 | -52.41 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 30~1000 | -54.01 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 1000~20000 | -33.02 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 20000~27000 | -45.78 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 0.009~0.15 | -67.70 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 0.15~30 | -54.76 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 30~1000 | -53.87 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 1000~20000 | -33.01 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 20000~27000 | -45.42 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 0.009~0.15 | -71.02 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 0.15~30 | -52.36 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 30~1000 | -53.97 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 1000~20000 | -33.25 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 20000~27000 | -45.48 | PASS |

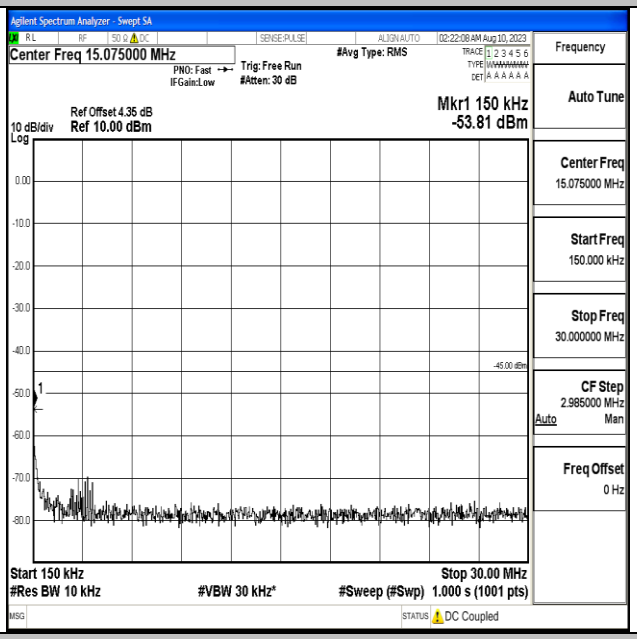
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 0.009~0.15 | -67.33 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 0.15~30 | -51.78 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 30~1000 | -53.94 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 1000~20000 | -33.06 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 20000~27000 | -45.92 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 0.009~0.15 | -69.53 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 0.15~30 | -55.39 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 30~1000 | -53.91 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 1000~20000 | -33.12 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 20000~27000 | -45.82 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 0.009~0.15 | -68.63 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 0.15~30 | -52.14 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 30~1000 | -53.82 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 1000~20000 | -33.37 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 20000~27000 | -45.21 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 0.009~0.15 | -67.78 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 0.15~30 | -54.66 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 30~1000 | -53.91 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 1000~20000 | -33.35 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 20000~27000 | -45.46 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 0.009~0.15 | -68.16 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 0.15~30 | -53.92 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 30~1000 | -54.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 1000~20000 | -32.85 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 20000~27000 | -45.27 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 0.009~0.15 | -66.81 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 0.15~30 | -53.38 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 30~1000 | -53.96 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 1000~20000 | -33.23 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 20000~27000 | -45.20 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 0.009~0.15 | -70.96 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 0.15~30 | -51.92 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 30~1000 | -53.92 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 1000~20000 | -33.16 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 20000~27000 | -45.71 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 0.009~0.15 | -68.66 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 0.15~30 | -52.29 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 30~1000 | -53.89 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 1000~20000 | -33.61 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 20000~27000 | -45.54 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 0.009~0.15 | -67.37 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 0.15~30 | -52.68 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 30~1000 | -53.95 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 1000~20000 | -33.33 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 20000~27000 | -45.61 | PASS |

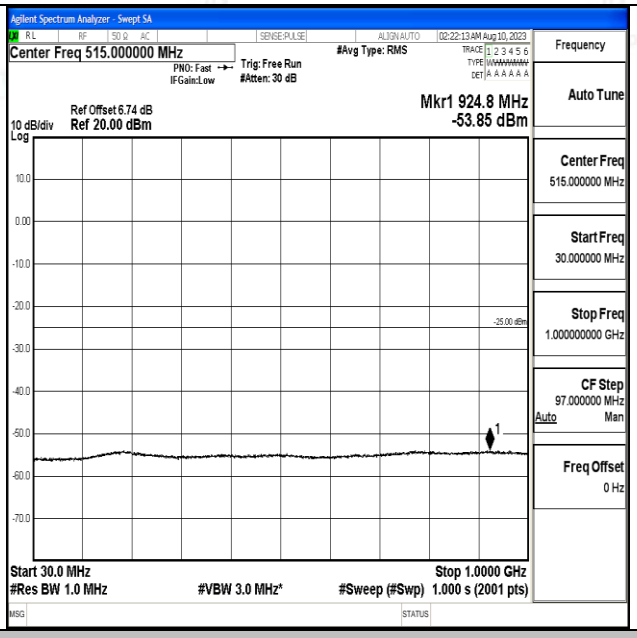
## Test Graphs



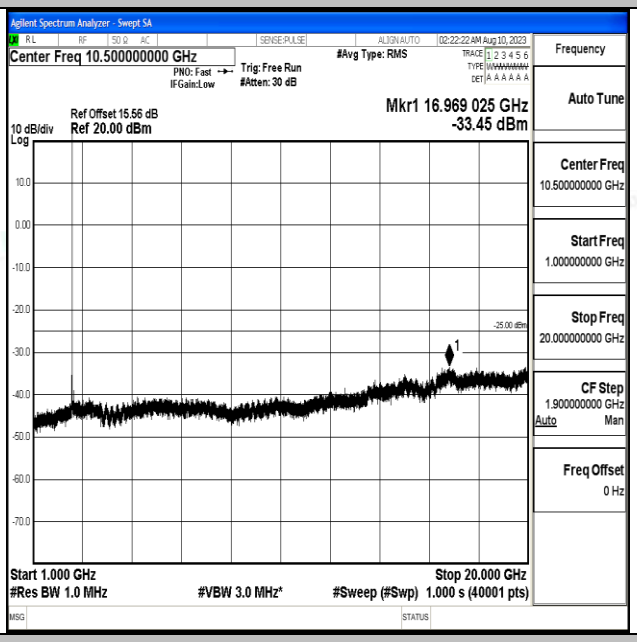

Band7_5MHz_QPSK_20775_1RB#0_0.009~0.15_0.009~0.15



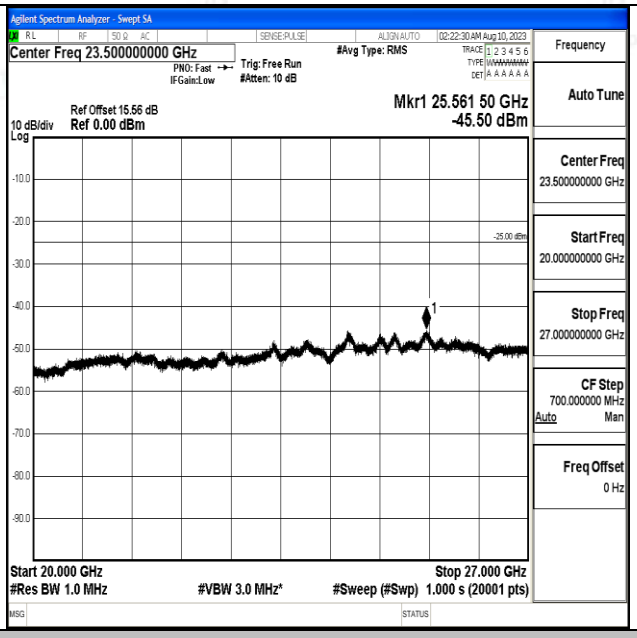

Band7_5MHz_QPSK_20775_1RB#0_0.15~30_0.15~30



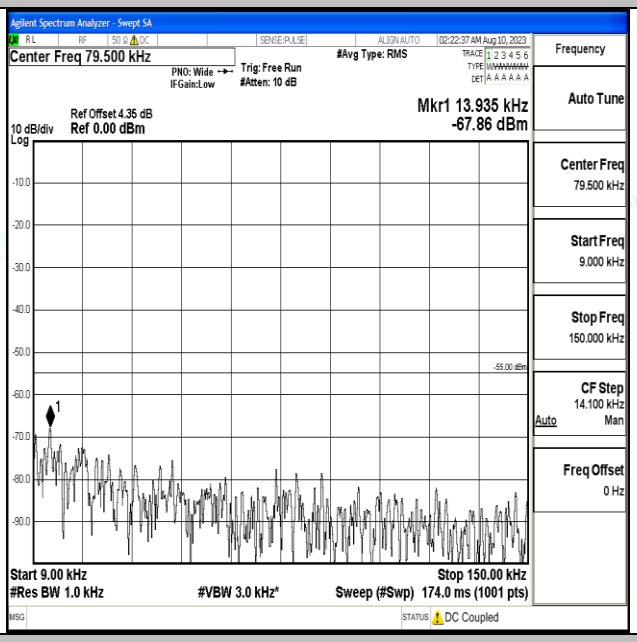

Band7_5MHz_QPSK_20775_1RB#0_30~1000_30~1000



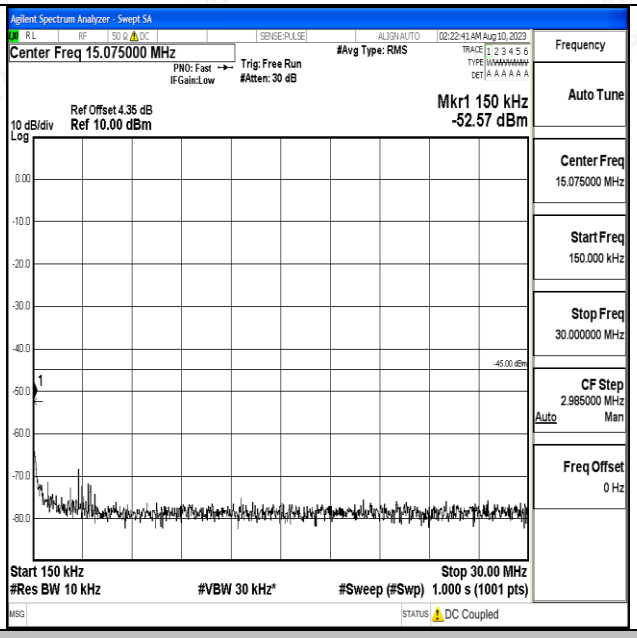

Band7_5MHz_QPSK_20775_1RB#0_1000~20000_1000~20000



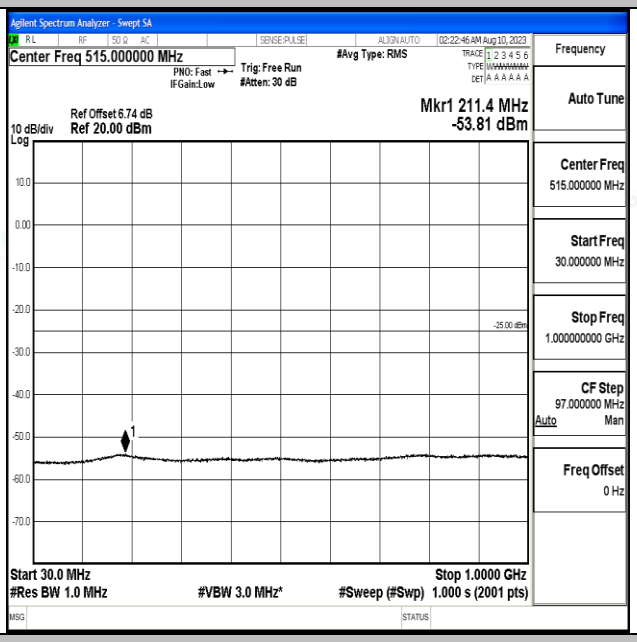

Band7_5MHz_QPSK_20775_1RB#0_20000~27000_20000~27000



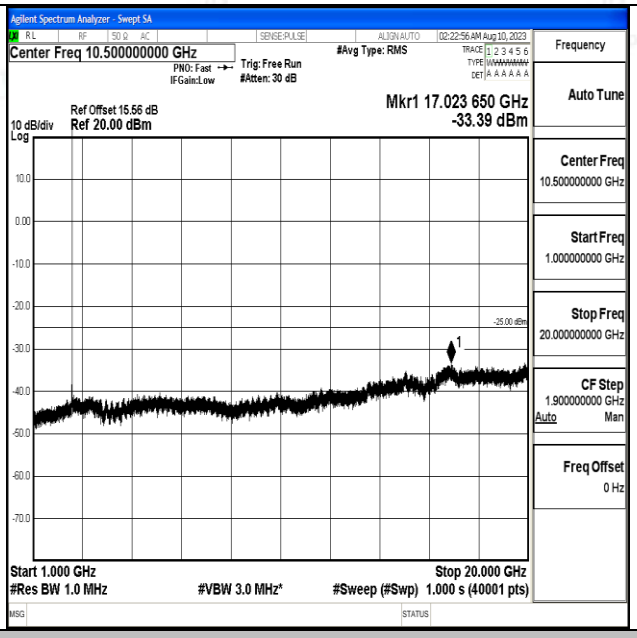

Band7_5MHz_16QAM_20775_1RB#0_0.009~0.15_0.009~0.15



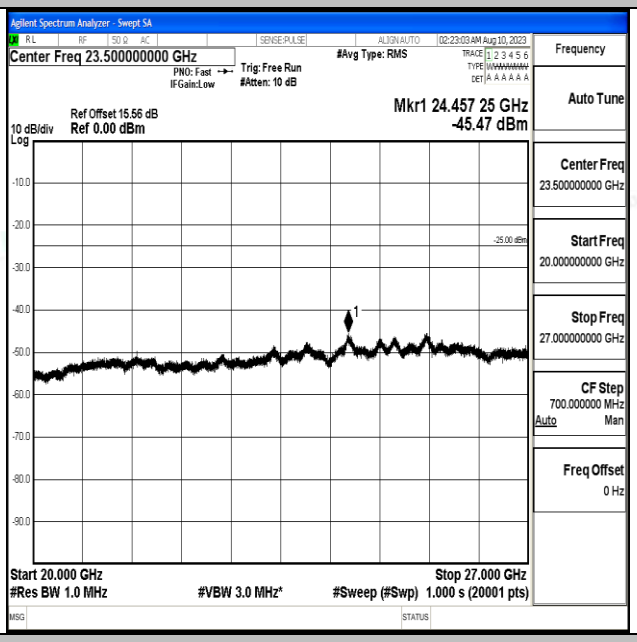

Band7_5MHz_16QAM_20775_1RB#0_0.15~30_0.15~30



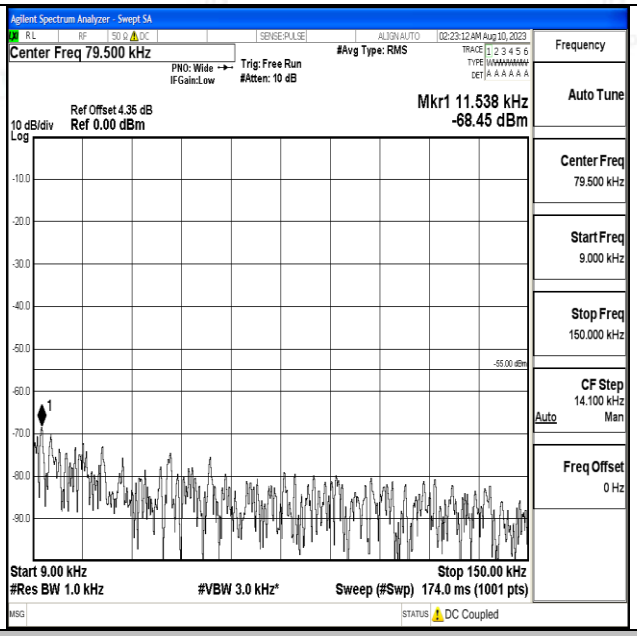

Band7_5MHz_16QAM_20775_1RB#0_30~1000_30~1000



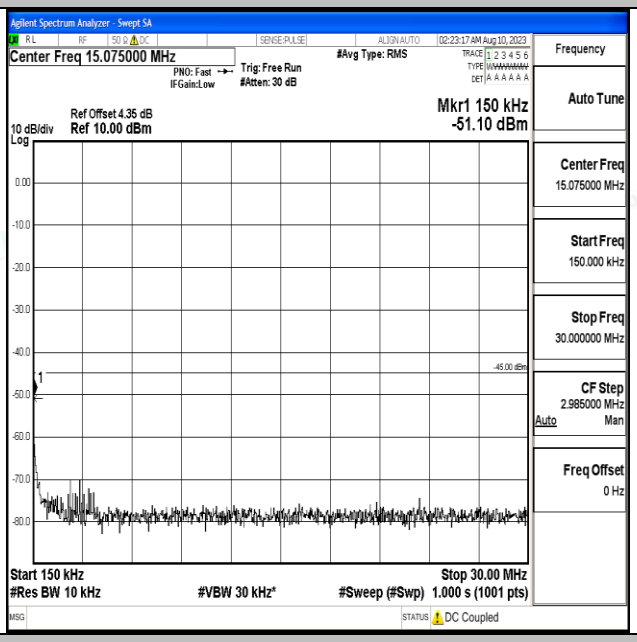

Band7_5MHz_16QAM_20775_1RB#0_1000~20000_1000~20000



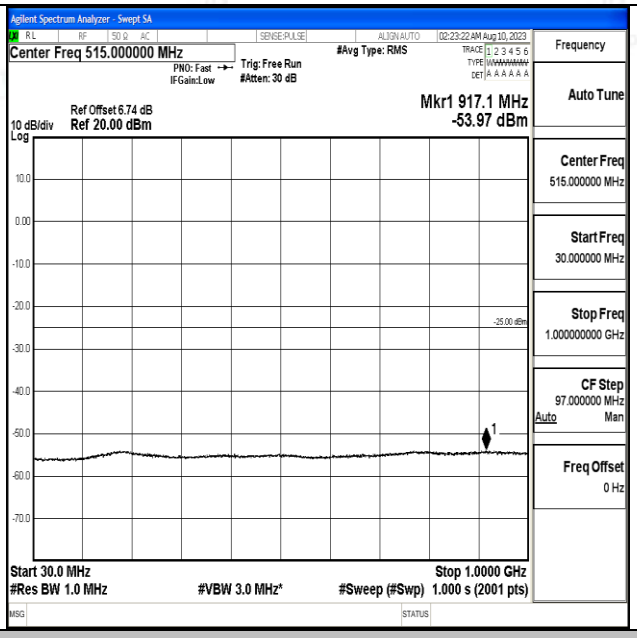

Band7_5MHz_16QAM_20775_1RB#0_20000~27000_20000~27000



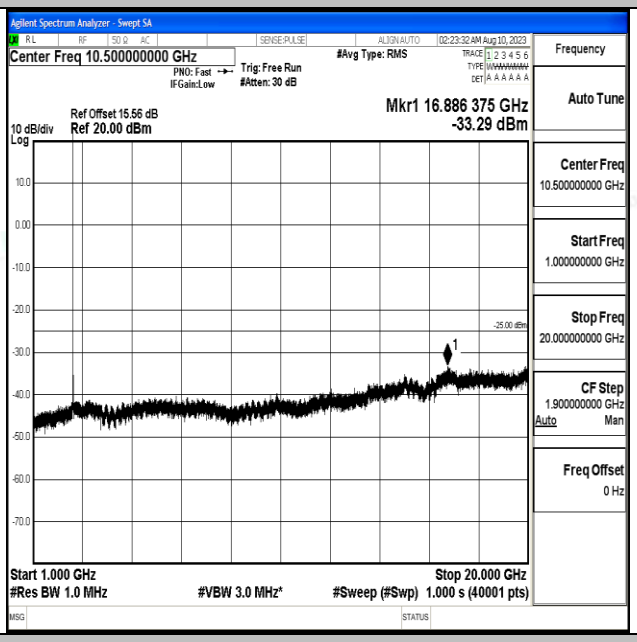

Band7_5MHz_QPSK_21100_1RB#0_0.009~0.15_0.009~0.15



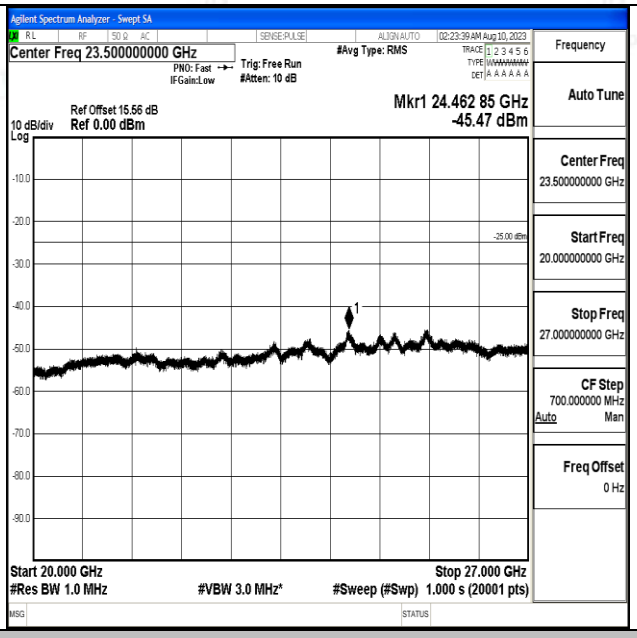

Band7_5MHz_QPSK_21100_1RB#0_0.15~30_0.15~30



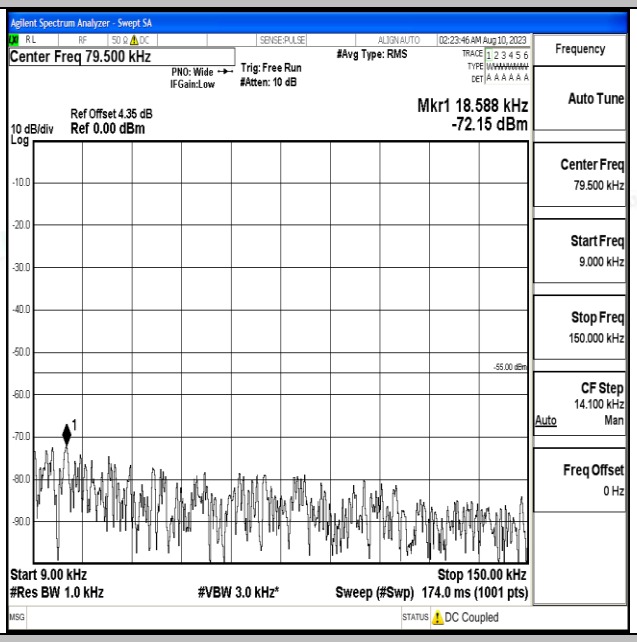

Band7_5MHz_QPSK_21100_1RB#0_30~1000_30~1000



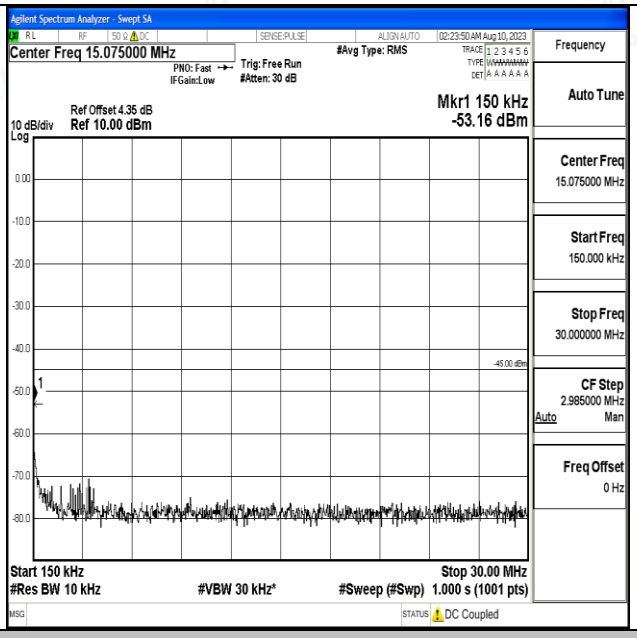

Band7_5MHz_QPSK_21100_1RB#0_1000~20000_1000~20000



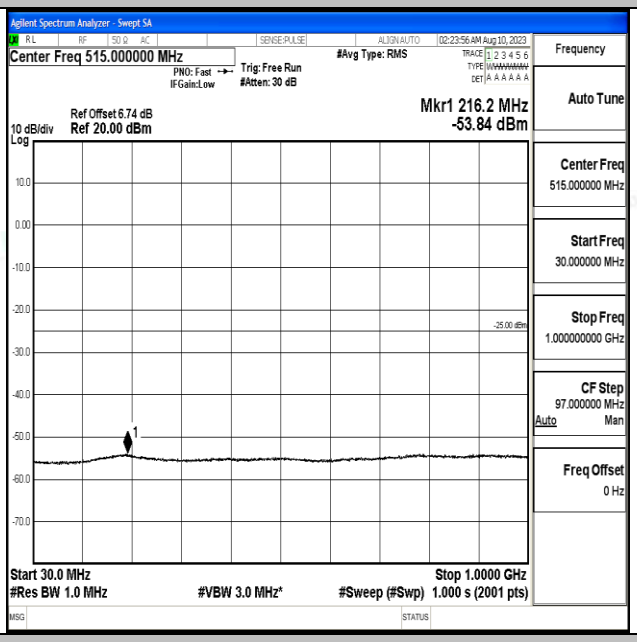

Band7_5MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



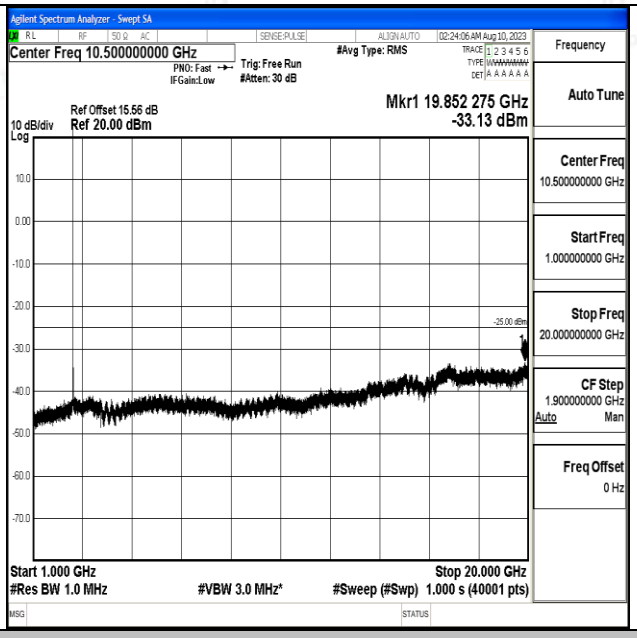

Band7_5MHz_16QAM_21100_1RB#0_0.009~0.15_0.009~0.15



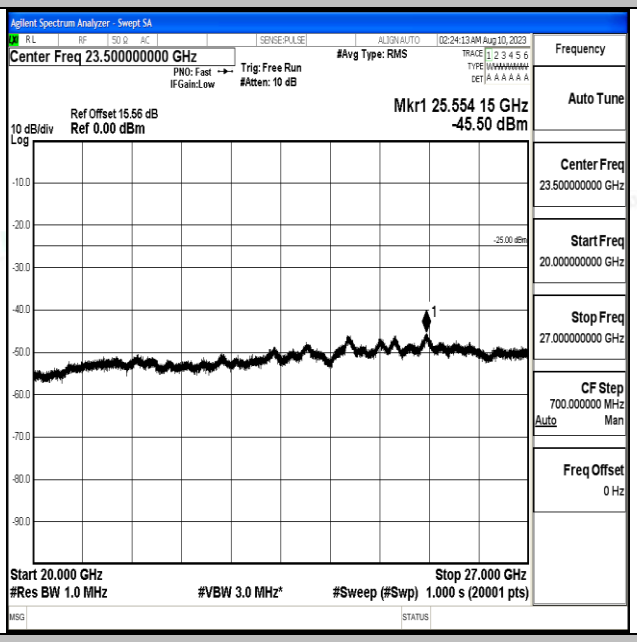

Band7_5MHz_16QAM_21100_1RB#0_0.15~30_0.15~30



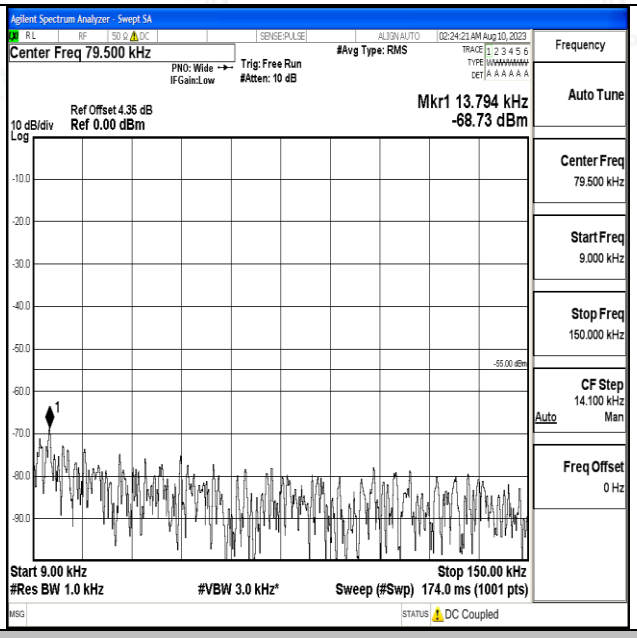

Band7_5MHz_16QAM_21100_1RB#0_30~1000_30~1000



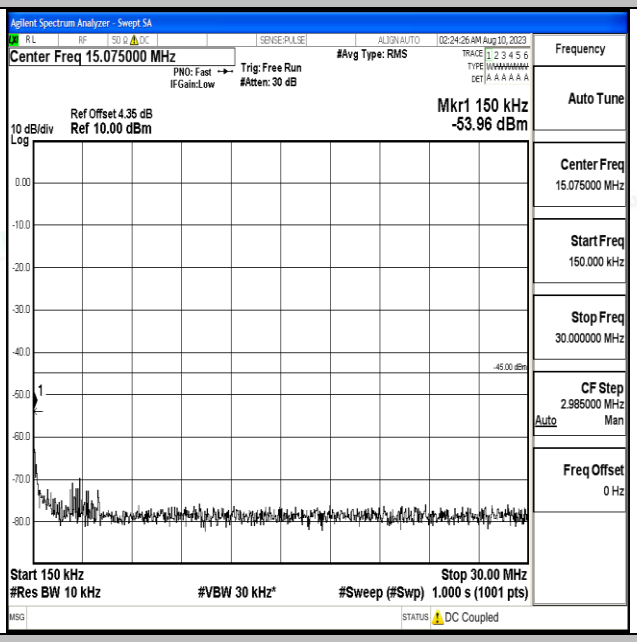

Band7_5MHz_16QAM_21100_1RB#0_1000~20000_1000~20000



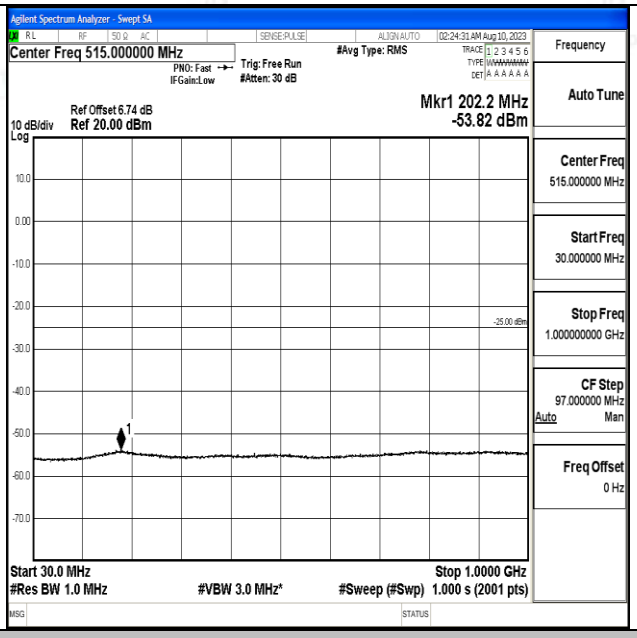

Band7_5MHz_16QAM_21100_1RB#0_20000~27000_20000~27000



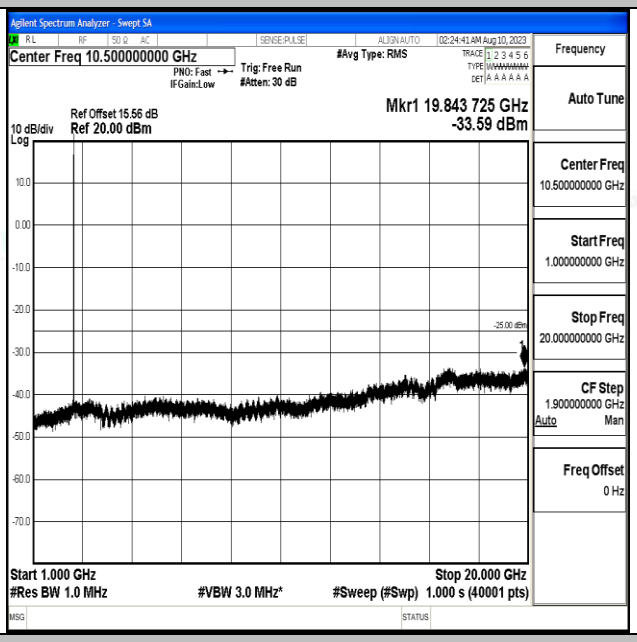

Band7_5MHz_QPSK_21425_1RB#0_0.009~0.15_0.009~0.15



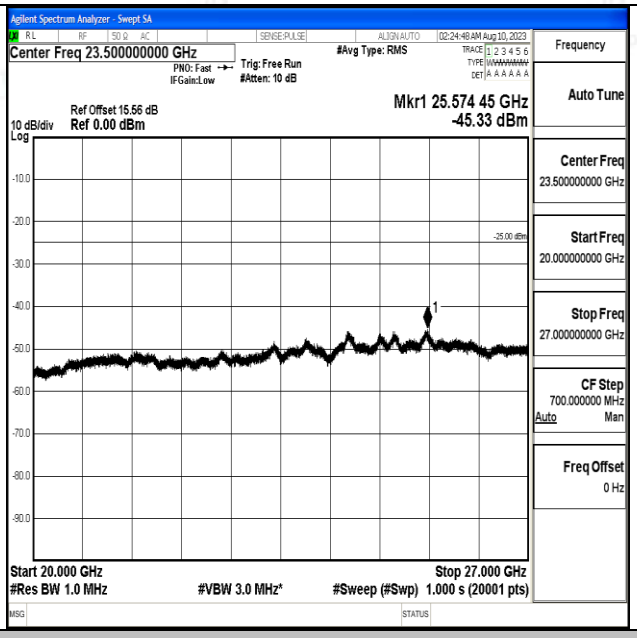

Band7_5MHz_QPSK_21425_1RB#0_0.15~30_0.15~30



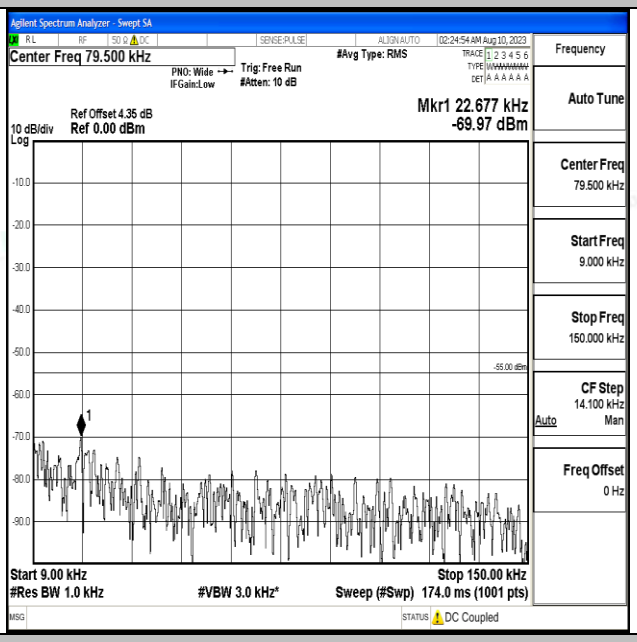

Band7_5MHz_QPSK_21425_1RB#0_30~1000_30~1000



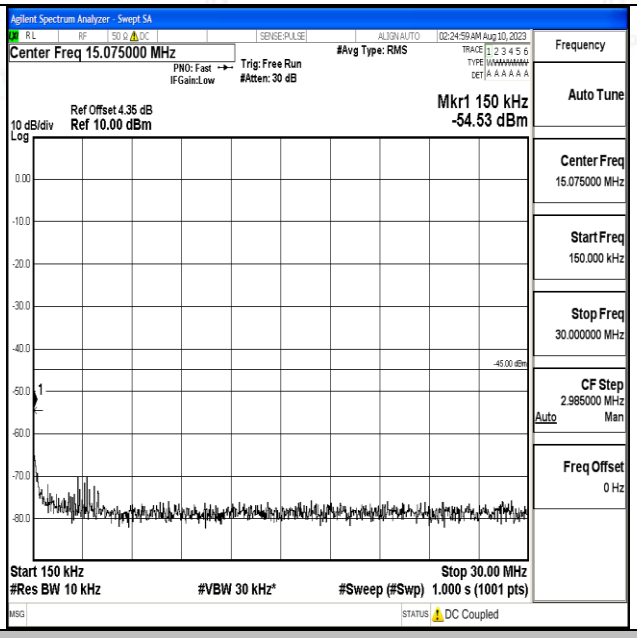

Band7_5MHz_QPSK_21425_1RB#0_1000~20000_1000~20000



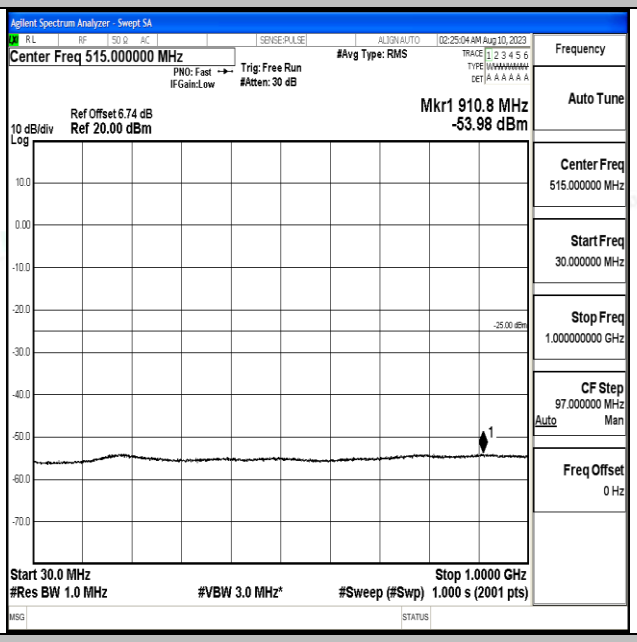

Band7_5MHz_QPSK_21425_1RB#0_20000~27000_20000~27000



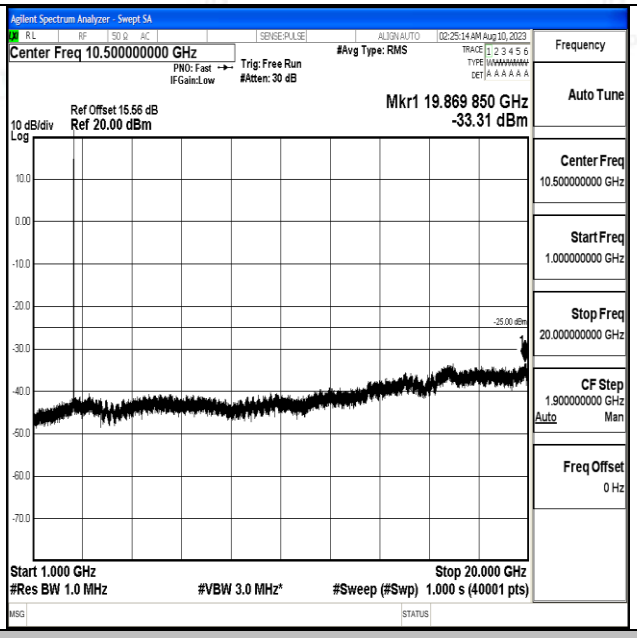

Band7_5MHz_16QAM_21425_1RB#0_0.009~0.15_0.009~0.15



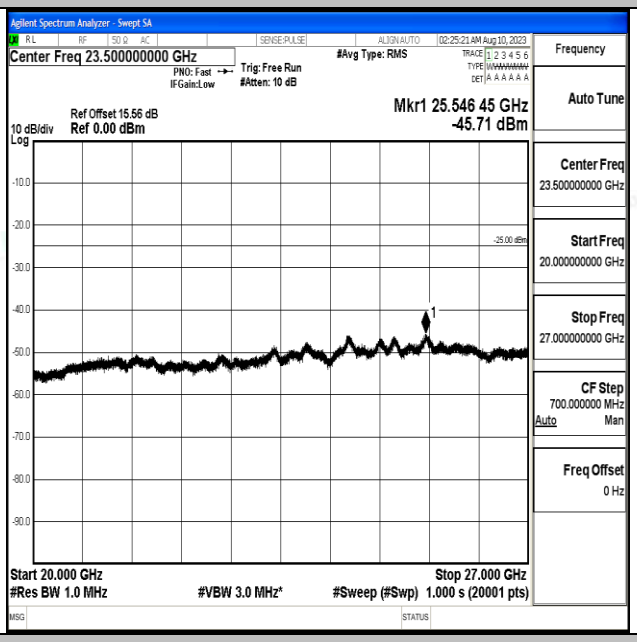

Band7_5MHz_16QAM_21425_1RB#0_0.15~30_0.15~30



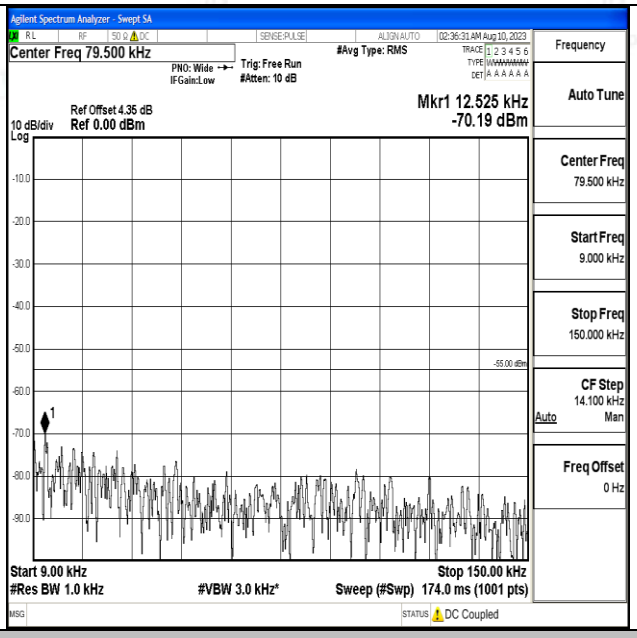

Band7_5MHz_16QAM_21425_1RB#0_30~1000_30~1000



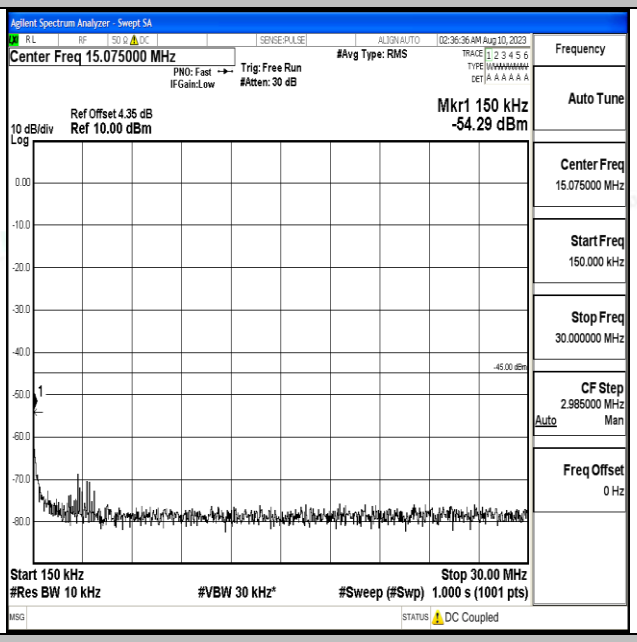

Band7_5MHz_16QAM_21425_1RB#0_1000~20000_1000~20000



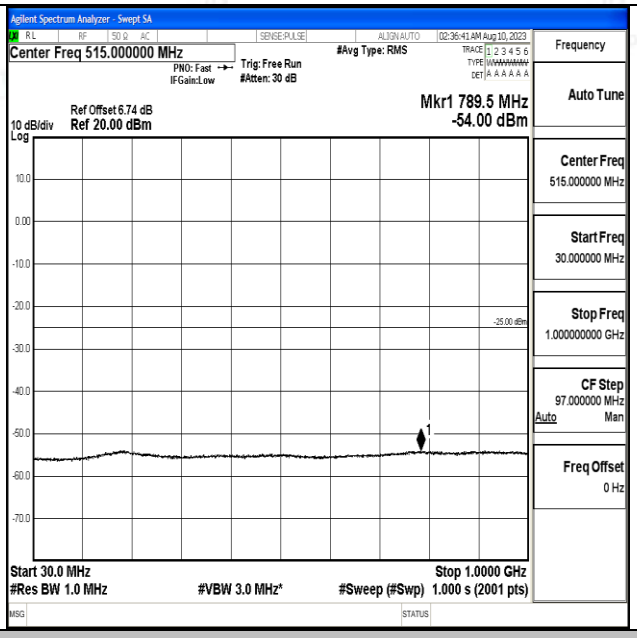

Band7_5MHz_16QAM_21425_1RB#0_20000~27000_20000~27000



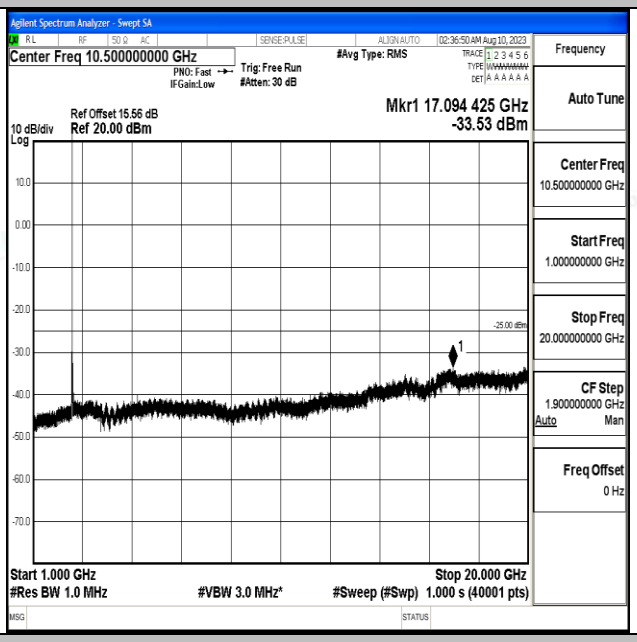

Band7_10MHz_QPSK_20800_1RB#0_0.009~0.15_0.009~0.15



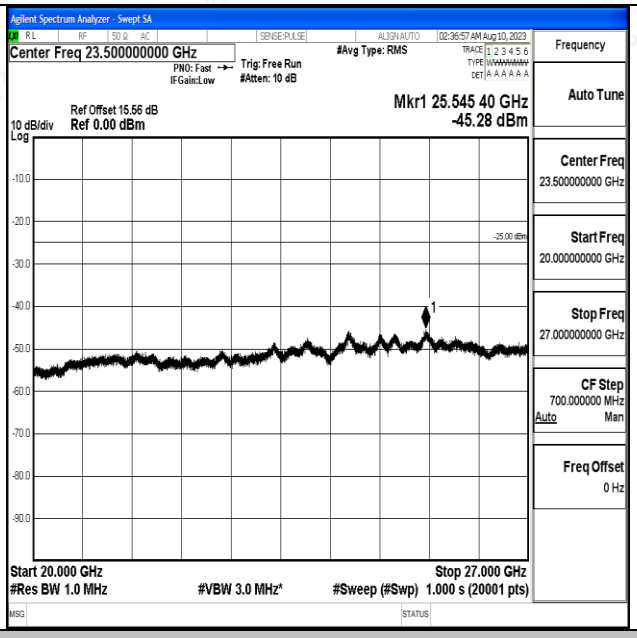

Band7_10MHz_QPSK_20800_1RB#0_0.15~30_0.15~30



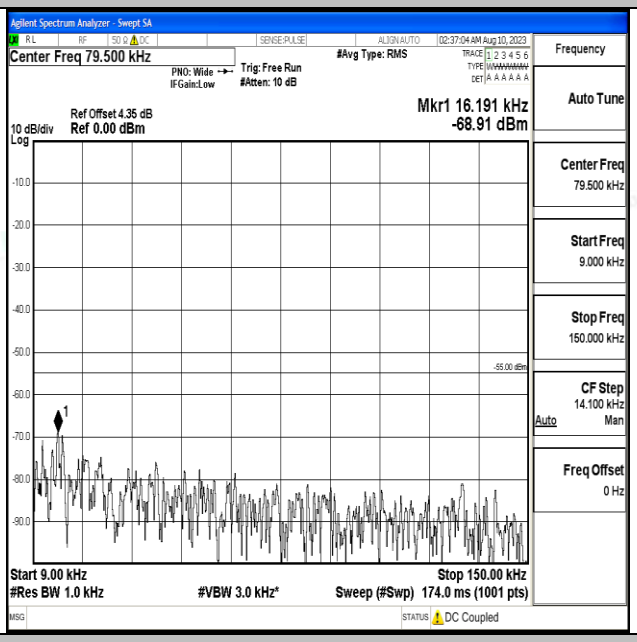

Band7_10MHz_QPSK_20800_1RB#0_30~1000_30~1000



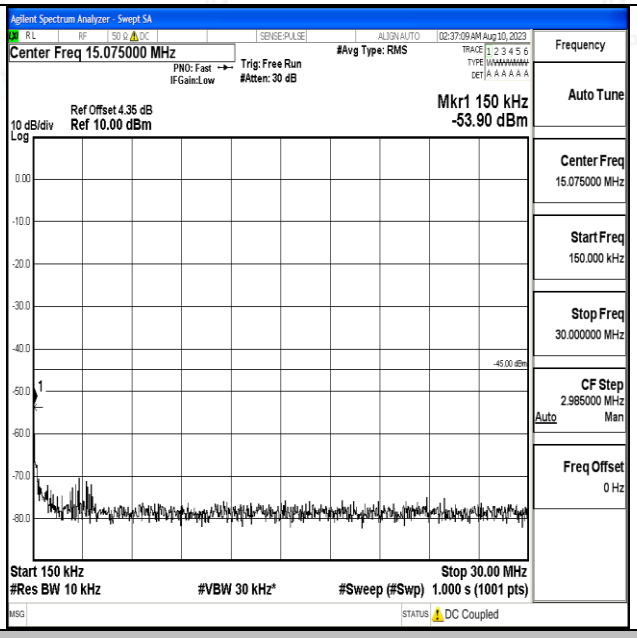

Band7_10MHz_QPSK_20800_1RB#0_1000~20000_1000~20000



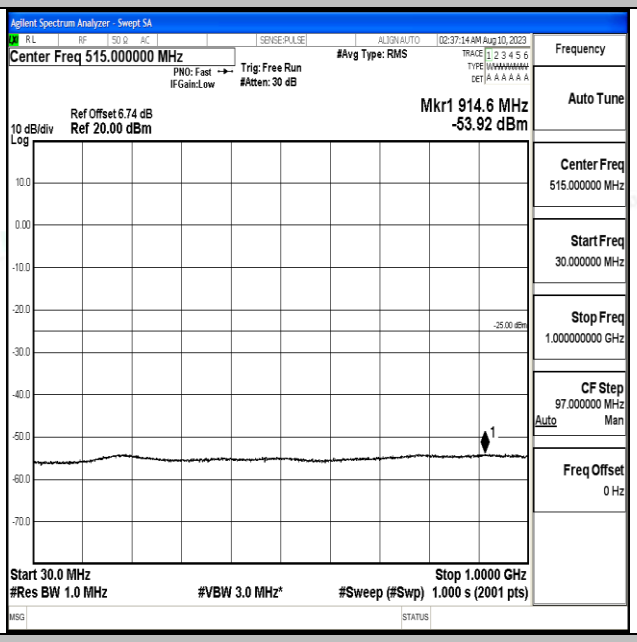

Band7_10MHz_QPSK_20800_1RB#0_20000~27000_20000~27000



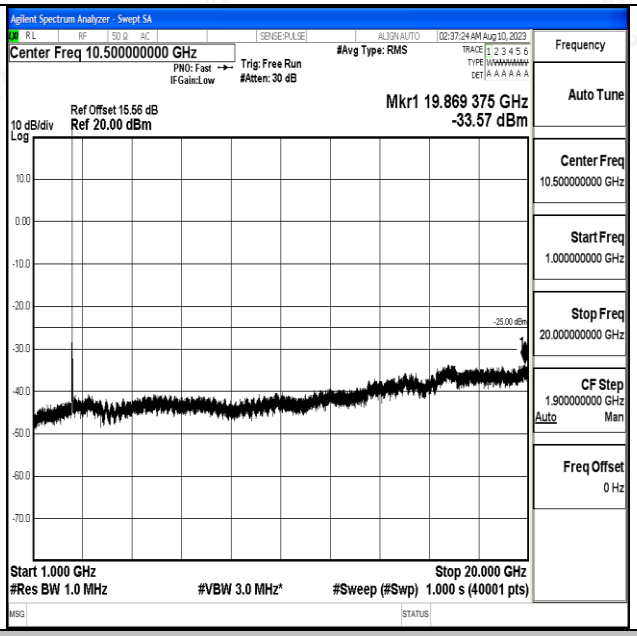

Band7_10MHz_16QAM_20800_1RB#0_0.009~0.15_0.009~0.15



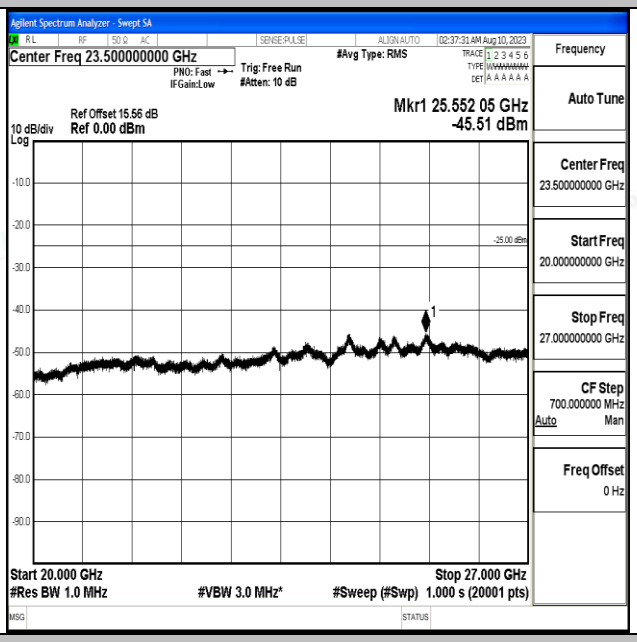

Band7_10MHz_16QAM_20800_1RB#0_0.15~30_0.15~30



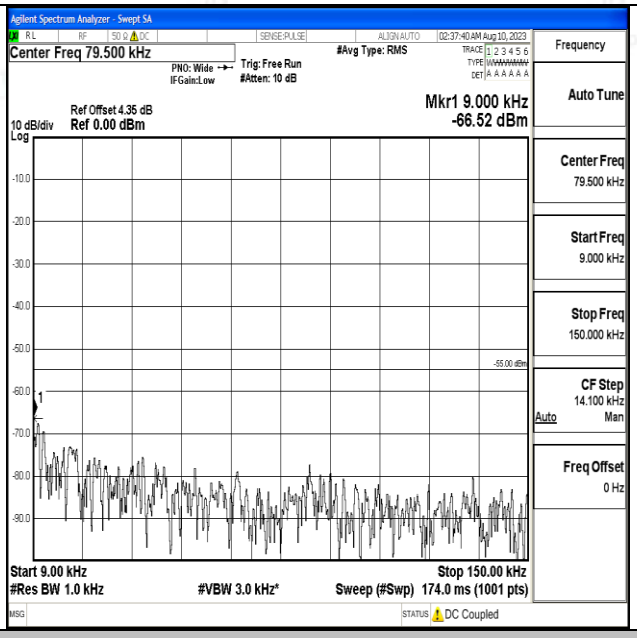

Band7_10MHz_16QAM_20800_1RB#0_30~1000_30~1000



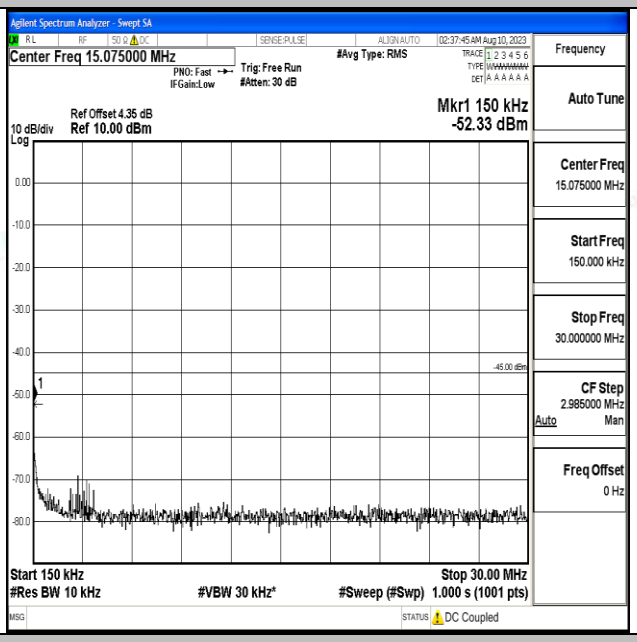

Band7_10MHz_16QAM_20800_1RB#0_1000~20000_1000~20000




Band7_10MHz_16QAM_20800_1RB#0_20000~27000_20000~27000




Band7_10MHz_QPSK_21100_1RB#0_0.009~0.15_0.009~0.15




Band7_10MHz_QPSK_21100_1RB#0_0.15~30_0.15~30