

LTE Test Data-BAND 13

| General Description of EUT | |
|---|------------------------|
| Product Name: | 4G Battery Camera |
| Test Model: | CQ3 |
| Sample ID: | HC-C-202404-0112-04-01 |
| Environmental Conditions | |
| Temperature: | 22.0°C-25°C |
| Relative Humidity: | 43%-55% |
| Test Voltage: | DC 5V |
| Test Engineer: | Mike Yan |
| Note: For a more detailed features description, please refer to the report TBR-C-202404-0112-41. The report only show the worst case data. | |

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1: Conducted Power Output Data

Test Result

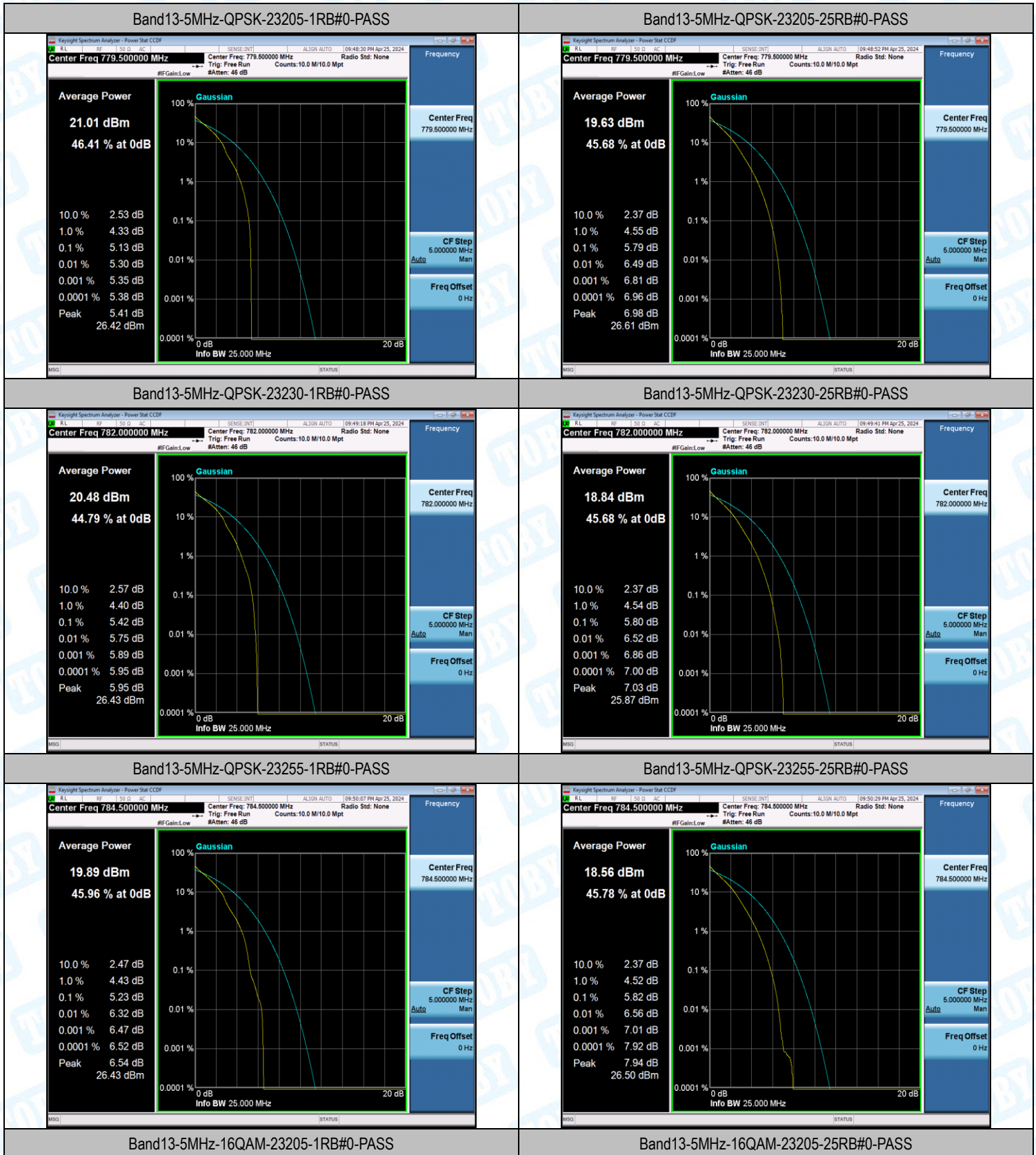
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 23.44 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 22.94 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 22.22 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#0 | 22.05 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#6 | 22.00 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#13 | 21.53 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 21.78 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 22.80 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 22.22 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 21.99 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#0 | 21.47 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#6 | 21.47 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#13 | 21.21 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 21.32 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 22.45 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 22.33 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 22.65 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#0 | 21.29 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#6 | 21.31 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#13 | 21.39 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 21.31 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 22.19 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 21.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 21.06 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#0 | 21.18 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#6 | 21.12 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#13 | 20.68 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 20.91 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 21.64 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 21.02 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 20.91 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#0 | 20.60 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#6 | 20.58 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#13 | 20.33 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 20.32 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 21.66 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 21.43 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 21.82 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 12RB#0 | 20.54 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 12RB#6 | 20.53 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 12RB#13 | 20.60 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 20.54 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 23.32 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 22.48 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 22.50 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#0 | 21.99 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#12 | 22.00 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#25 | 21.46 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 21.74 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 22.23 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 21.42 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 21.56 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#0 | 21.07 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#12 | 21.04 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#25 | 20.55 | PASS |

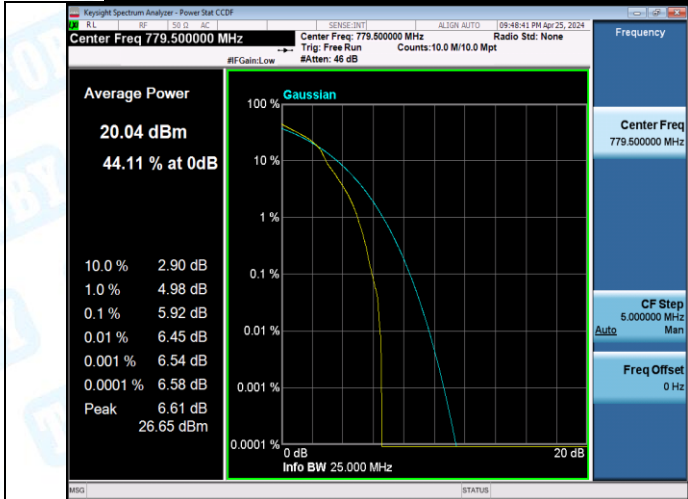
2: Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 5.13 | 13 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 5.79 | 13 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 5.42 | 13 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 5.80 | 13 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 5.23 | 13 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 5.82 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 5.92 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 6.43 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 6.18 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 6.39 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 6.43 | 13 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 6.56 | 13 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 5.09 | 13 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 5.75 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 6.08 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 27RB#0 | 6.52 | 13 | PASS |

Test Graphs

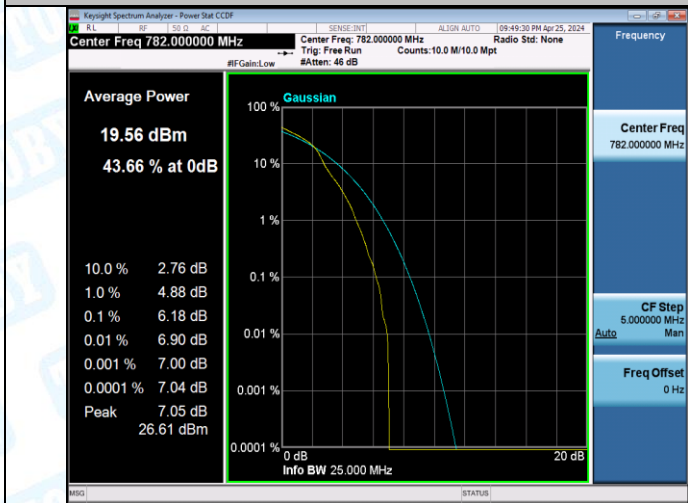




Band13-5MHz-16QAM-23230-1RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-16QAM-23255-1RB#0-PASS



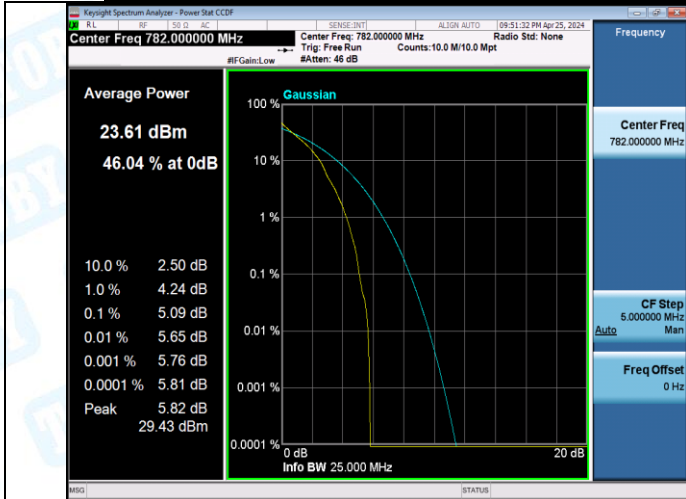
Band13-5MHz-16QAM-23255-25RB#0-PASS



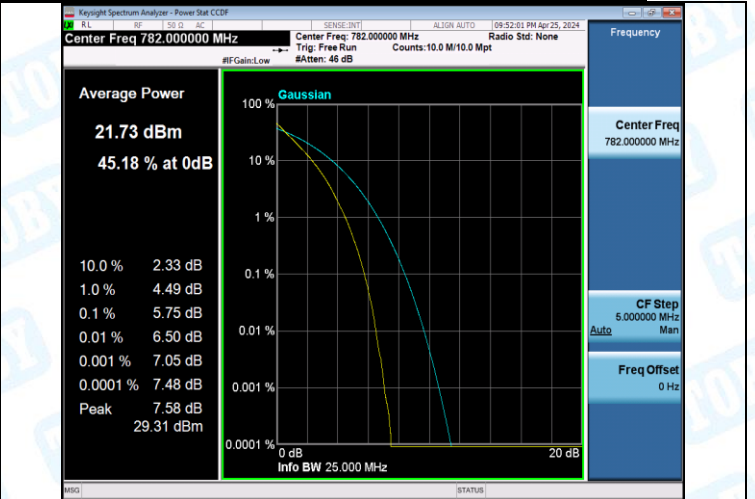
Band13-10MHz-QPSK-23230-1RB#0-PASS



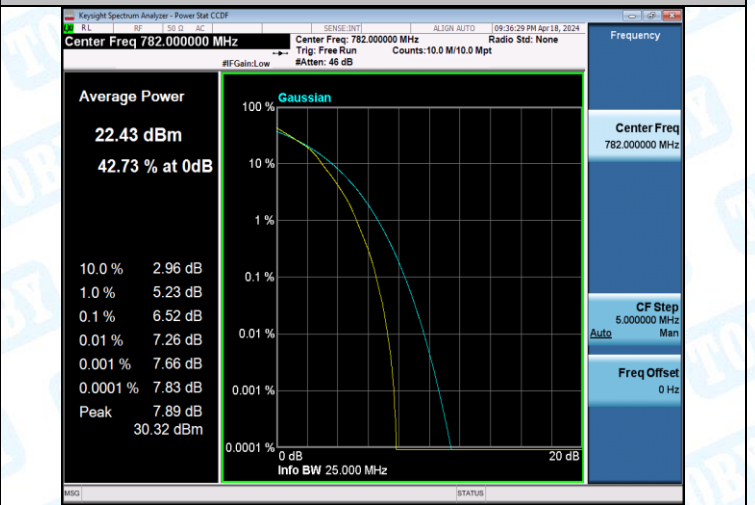
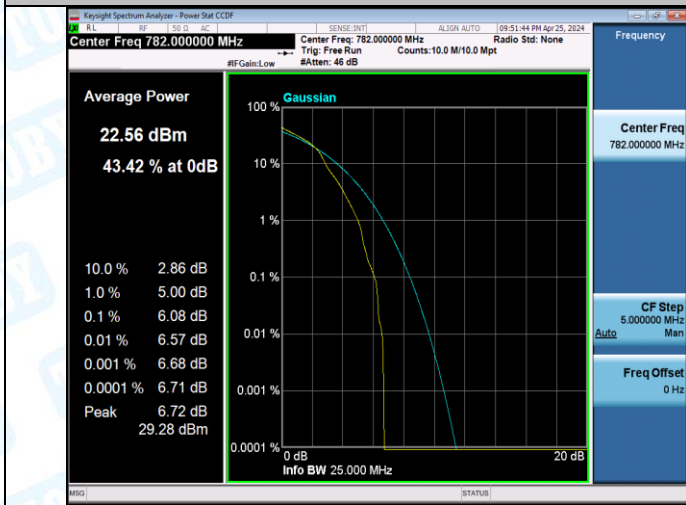
Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-27RB#0-PASS

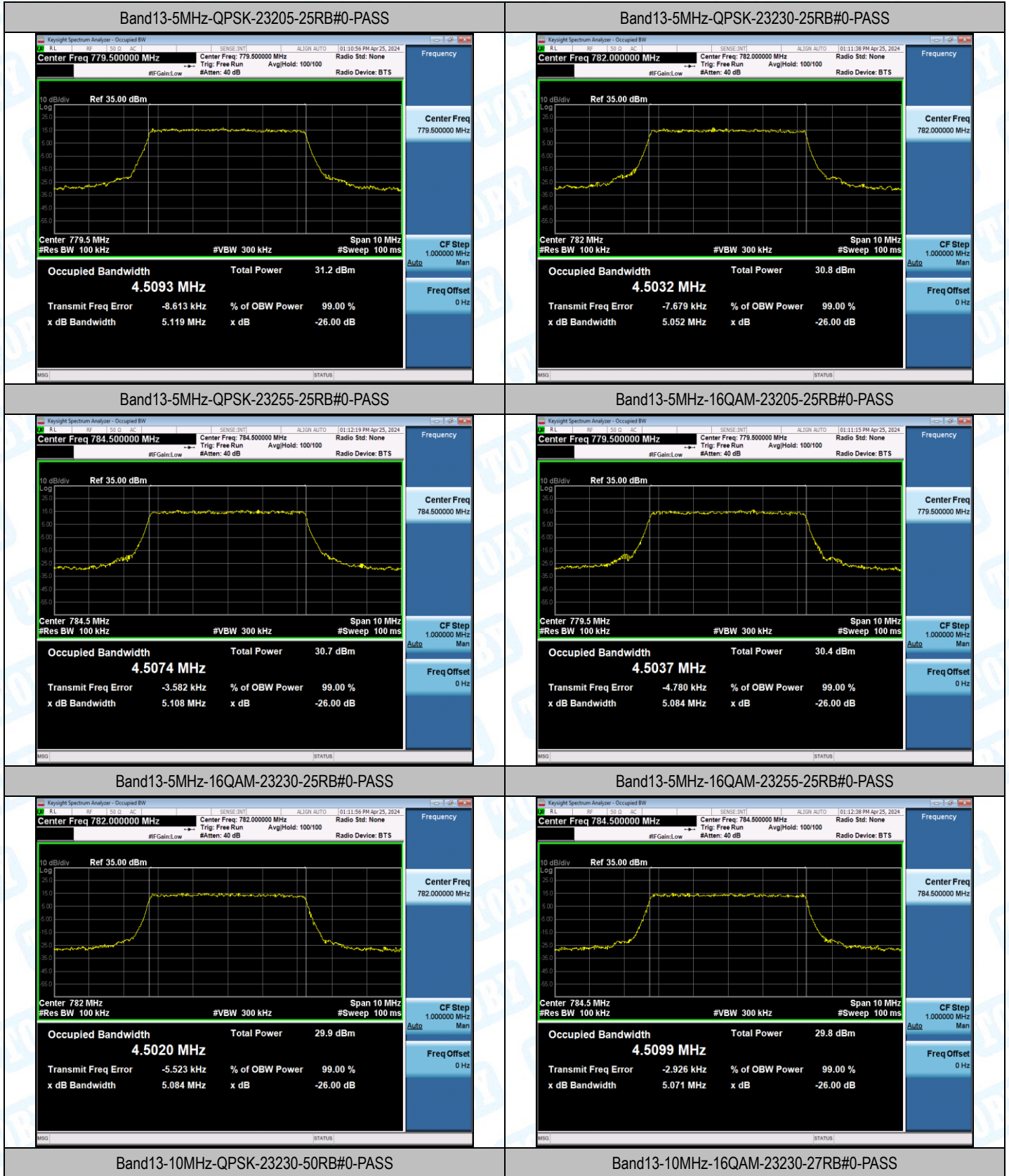


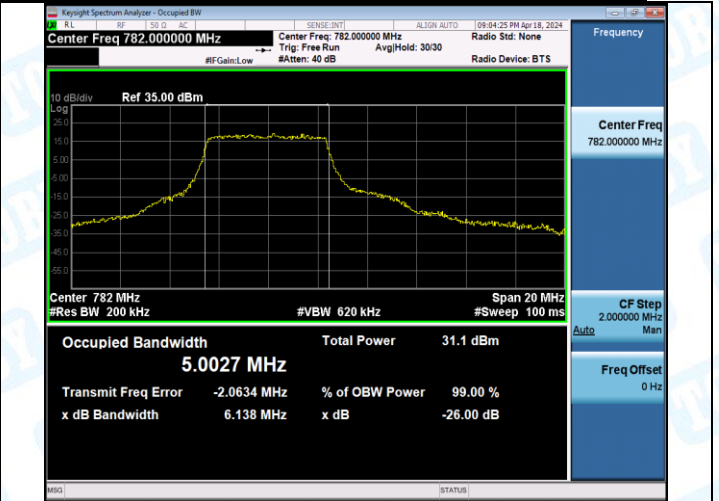
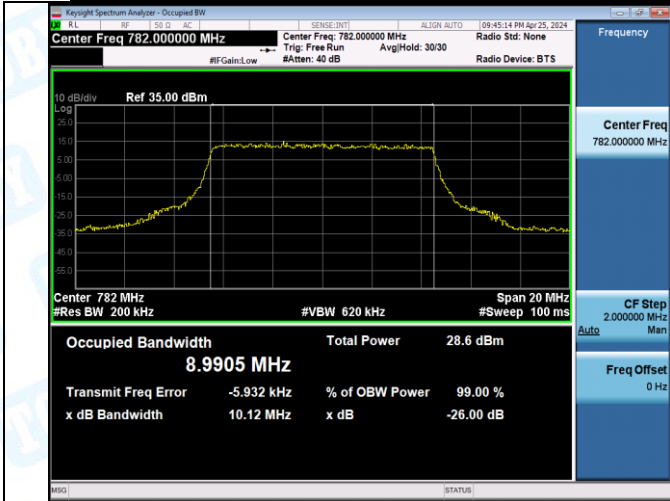
3: 26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 4.5093 | 5.119 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 4.5032 | 5.052 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 4.5074 | 5.108 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 4.5037 | 5.084 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 4.5020 | 5.084 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 4.5099 | 5.071 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 8.9905 | 10.12 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 27RB#0 | 5.0027 | 6.138 | PASS |

Test Graphs



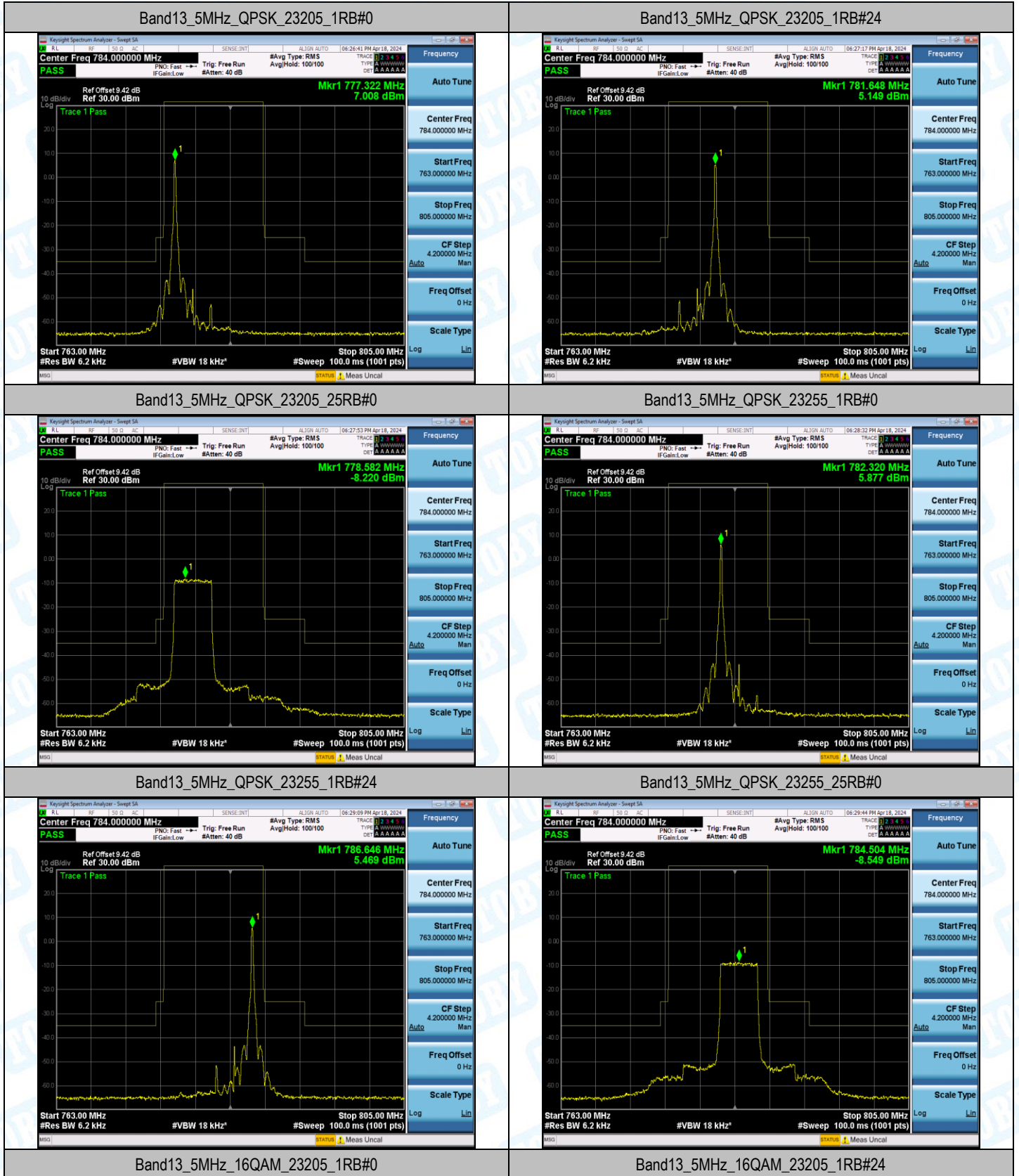


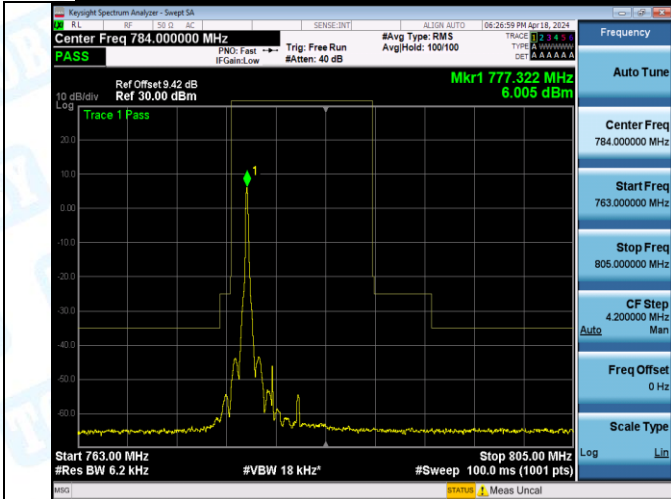
4: Band Edge

Test Result

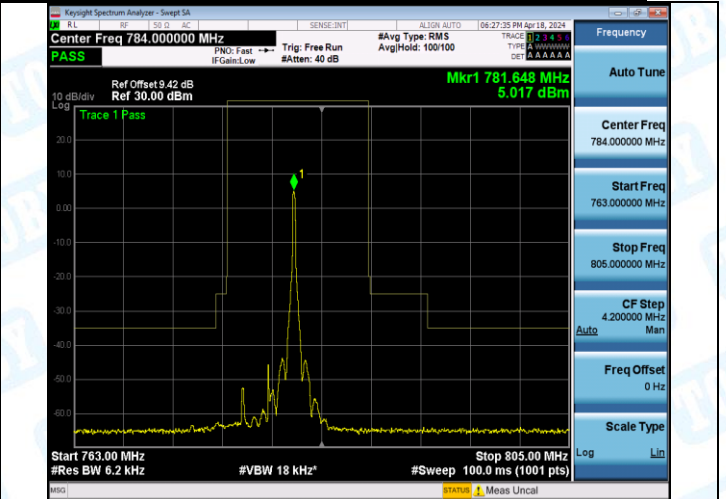
| Band | Bandwidth | Modulation | Channel | RB Configuration | Level_dBm | Margin | Verdict |
|--------|-----------|------------|---------|------------------|-----------|--------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | -60.34 | 25.34 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | -63.34 | 28.34 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | -51.75 | 16.75 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | -63.80 | 28.80 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | -54.10 | 29.00 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | -55.92 | 20.92 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | -61.18 | 26.18 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | -63.35 | 28.35 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | -51.58 | 16.58 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | -63.93 | 28.93 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | -64.08 | 29.08 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | -56.41 | 21.41 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | -51.49 | 16.49 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | -49.62 | 24.52 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | -53.44 | 18.44 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | -52.07 | 17.07 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | -50.38 | 25.28 | PASS |

Test Graphs

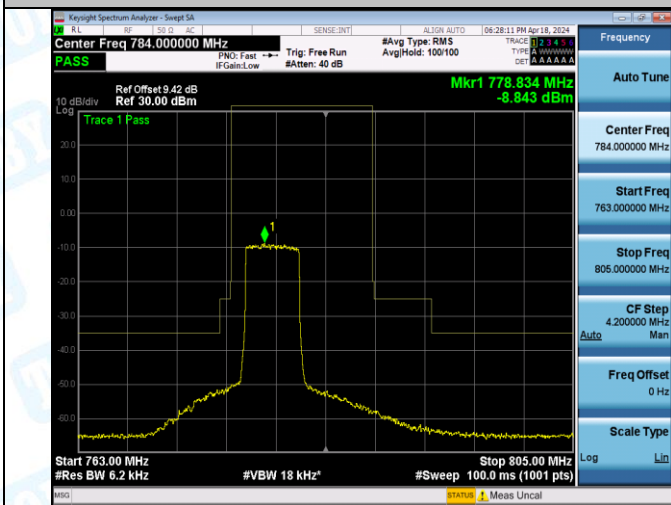




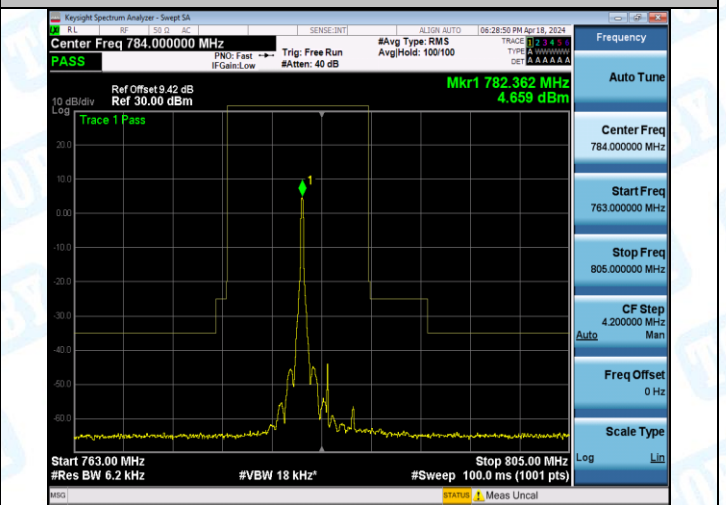
Band13_5MHz_16QAM_23205_25RB#0



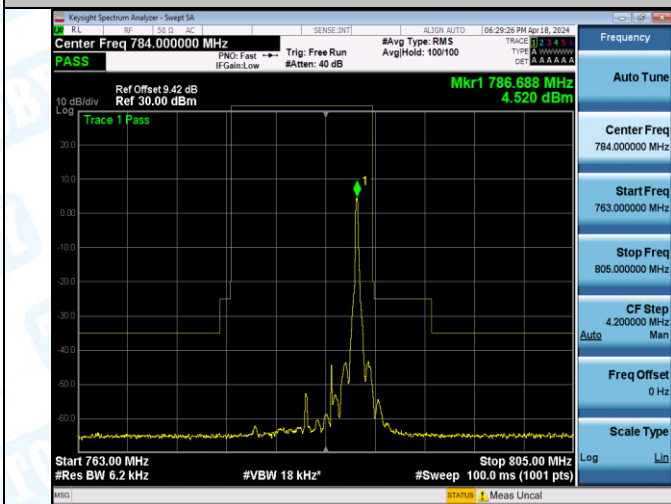
Band13_5MHz_16QAM_23255_1RB#0



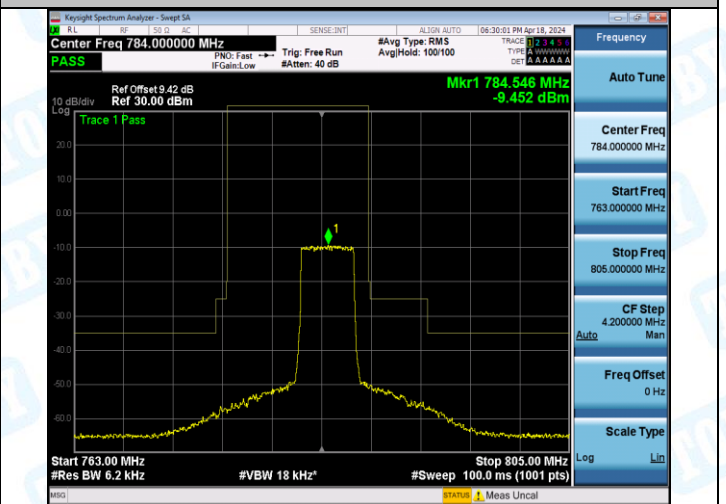
Band13_5MHz_16QAM_23255_1RB#24



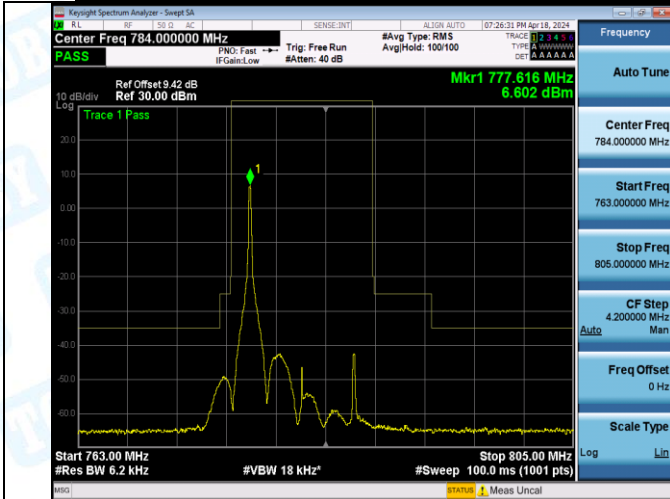
Band13_5MHz_16QAM_23255_25RB#0



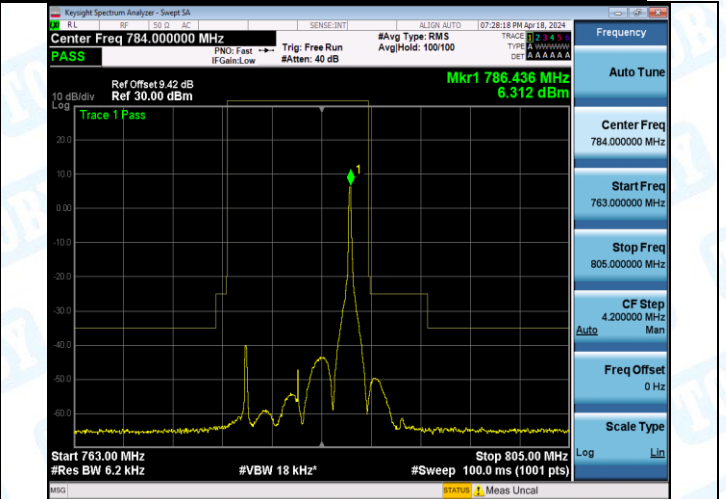
Band13_10MHz_QPSK_23230_1RB#0



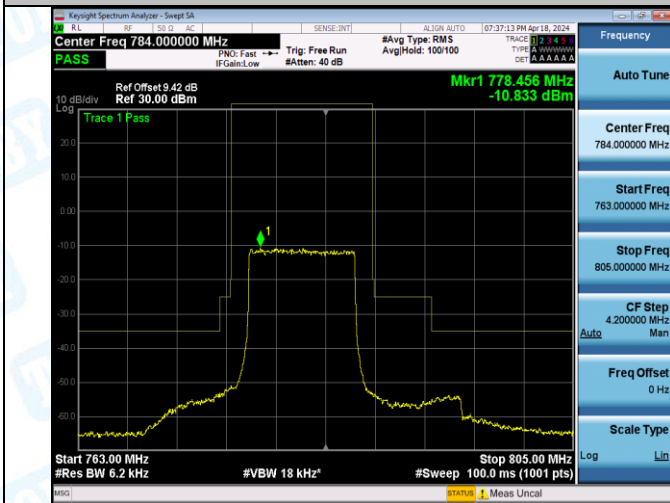
Band13_10MHz_QPSK_23230_1RB#49



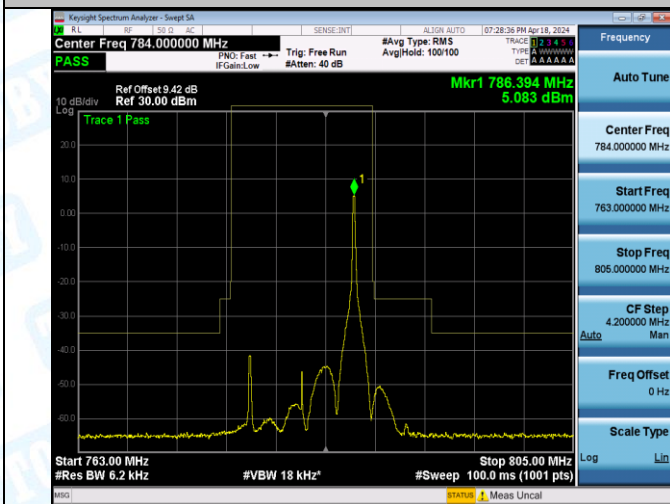
Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_1RB#0



Band13_10MHz_16QAM_23230_1RB#49



5: Conducted Spurious Emission

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Frequency | Value(dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|-----------|------------|-------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 0.009~0.15 | 0.01 | -65.70 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 0.15~30 | 0.15 | -50.47 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 30~1000 | 894.27 | -59.68 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 1000~3000 | 2641.75 | -42.29 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 3000~10000 | 7378.85 | -35.51 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 0.009~0.15 | 0.01 | -63.29 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 0.15~30 | 0.15 | -49.68 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 30~1000 | 838.50 | -60.01 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 1000~3000 | 2675.40 | -43.19 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 3000~10000 | 7357.68 | -35.08 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 0.009~0.15 | 0.01 | -62.74 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 0.15~30 | 0.15 | -49.69 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 30~1000 | 909.31 | -59.63 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 1000~3000 | 2636.00 | -43.08 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 3000~10000 | 7351.55 | -34.97 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 0.009~0.15 | 0.01 | -64.21 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 0.15~30 | 0.15 | -50.06 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 30~1000 | 939.38 | -59.48 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 1000~3000 | 2985.55 | -43.25 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 3000~10000 | 7310.78 | -35.56 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 0.009~0.15 | 0.01 | -65.43 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 0.15~30 | 0.15 | -49.02 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 30~1000 | 807.94 | -59.58 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 1000~3000 | 2689.55 | -42.68 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 3000~10000 | 7363.10 | -35.36 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 0.009~0.15 | 0.01 | -65.85 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 0.15~30 | 0.15 | -49.69 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 30~1000 | 795.33 | -50.81 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 1000~3000 | 2652.85 | -43.06 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 3000~10000 | 7361.18 | -34.98 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 0.009~0.15 | 0.01 | -64.35 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 0.15~30 | 0.15 | -50.84 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 30~1000 | 883.60 | -59.87 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 1000~3000 | 2665.70 | -43.12 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 3000~10000 | 7366.08 | -35.28 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 0.009~0.15 | 0.01 | -65.29 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 0.15~30 | 0.15 | -50.15 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 30~1000 | 936.95 | -59.25 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 1000~3000 | 2645.00 | -42.82 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 3000~10000 | 7348.75 | -34.96 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 0.009~0.15 | 0.01 | -66.55 | -33.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 0.15~30 | 0.18 | -52.86 | -23.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 30~1000 | 663.90 | -59.86 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 1000~3000 | 2667.95 | -43.41 | -13.0 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 3000~10000 | 7375.00 | -35.38 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 0.009~0.15 | 0.01 | -63.13 | -33.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 0.15~30 | 0.15 | -49.71 | -23.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 30~1000 | 919.98 | -59.82 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 1000~3000 | 2637.60 | -43.06 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 3000~10000 | 7407.73 | -35.40 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 0.009~0.15 | 0.01 | -64.38 | -33.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 0.15~30 | 0.15 | -50.04 | -23.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 30~1000 | 990.79 | -59.68 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 1000~3000 | 2661.90 | -43.26 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 3000~10000 | 7446.75 | -35.19 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 0.009~0.15 | 0.01 | -62.09 | -33.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 0.15~30 | 0.15 | -49.40 | -23.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 30~1000 | 872.45 | -59.58 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 1000~3000 | 2650.00 | -43.25 | -13.0 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 3000~10000 | 7367.65 | -35.17 | -13.0 | PASS |