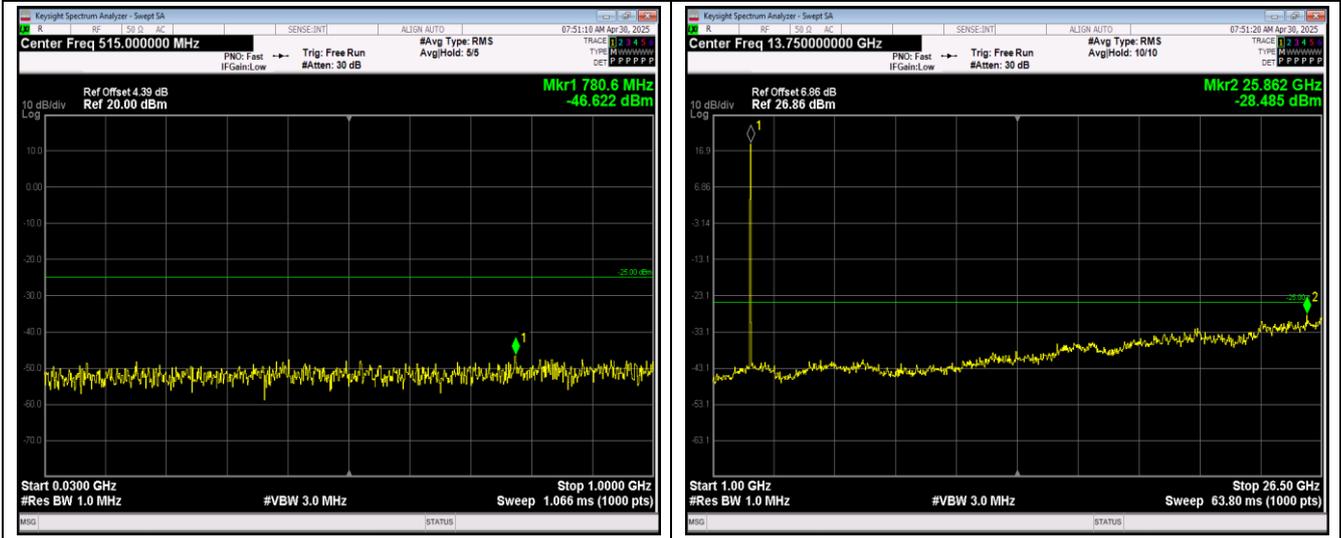


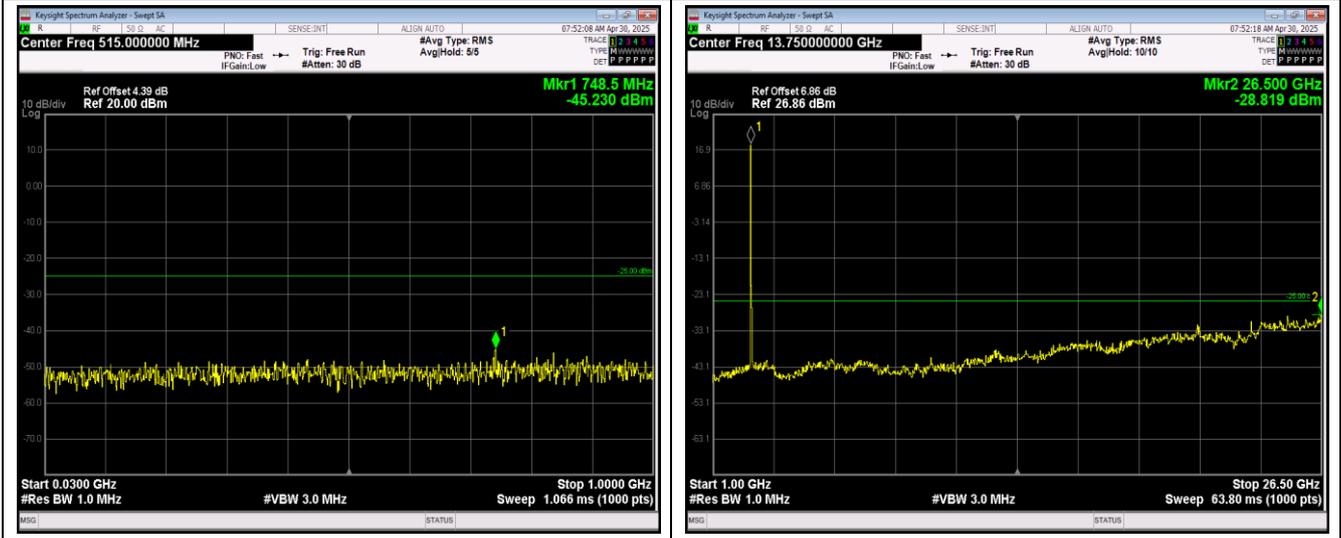
Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz

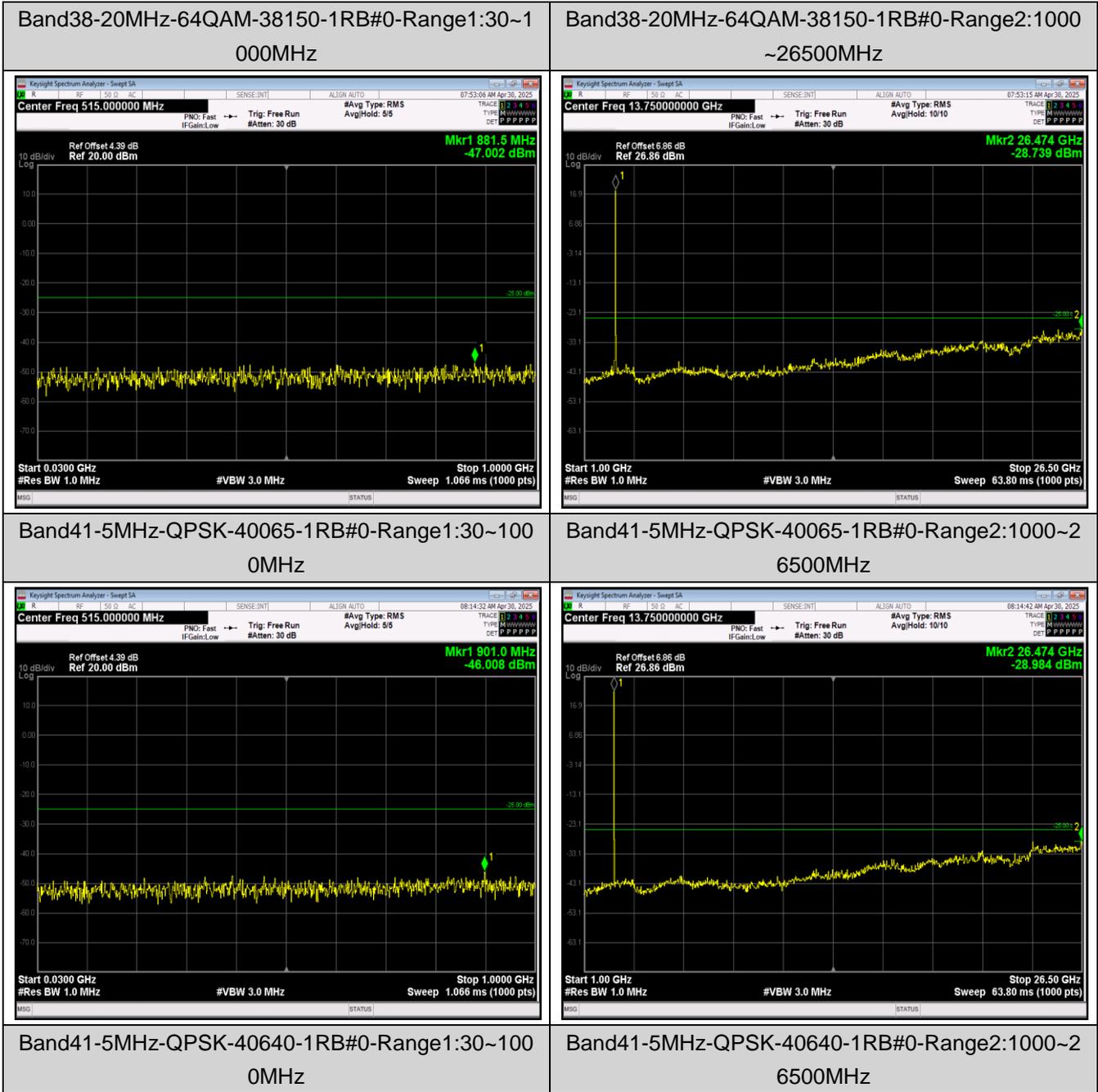
Band38-20MHz-64QAM-37850-1RB#0-Range2: 1000~26500MHz

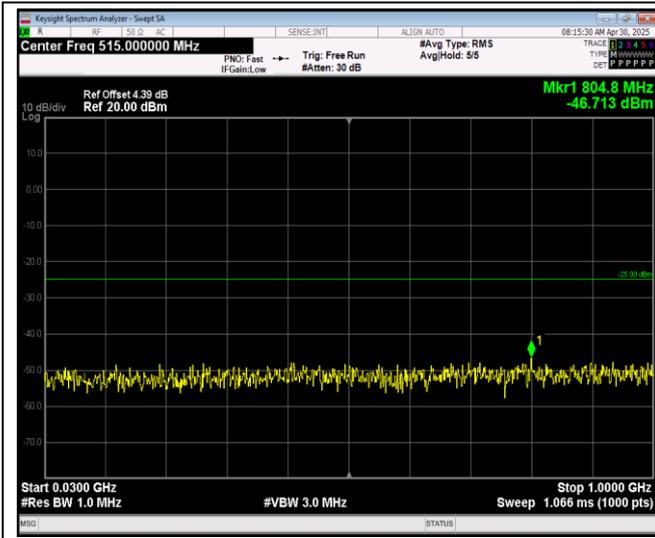


Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz

Band38-20MHz-64QAM-38000-1RB#0-Range2: 1000~26500MHz

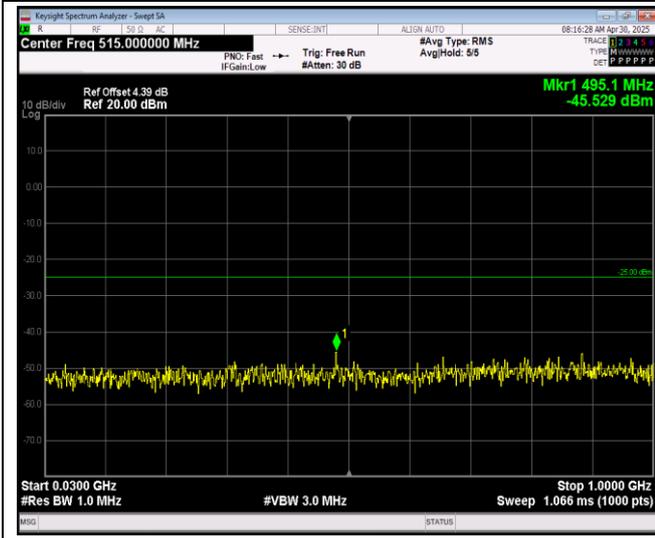






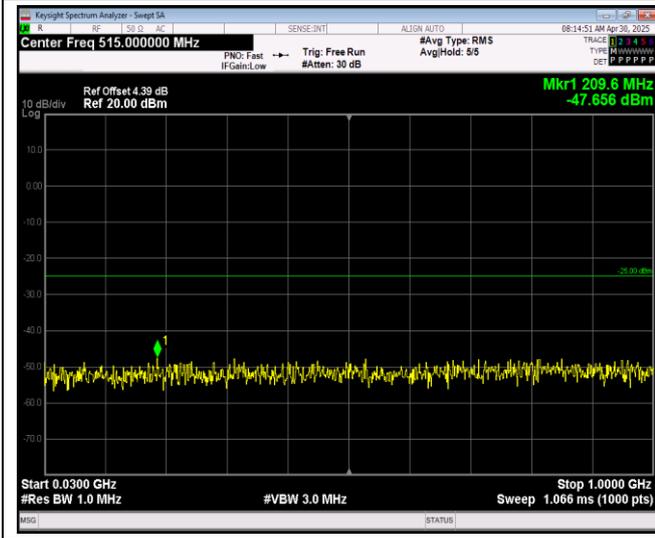
Band41-5MHz-QPSK-41215-1RB#0-Range1:30~100
 0MHz

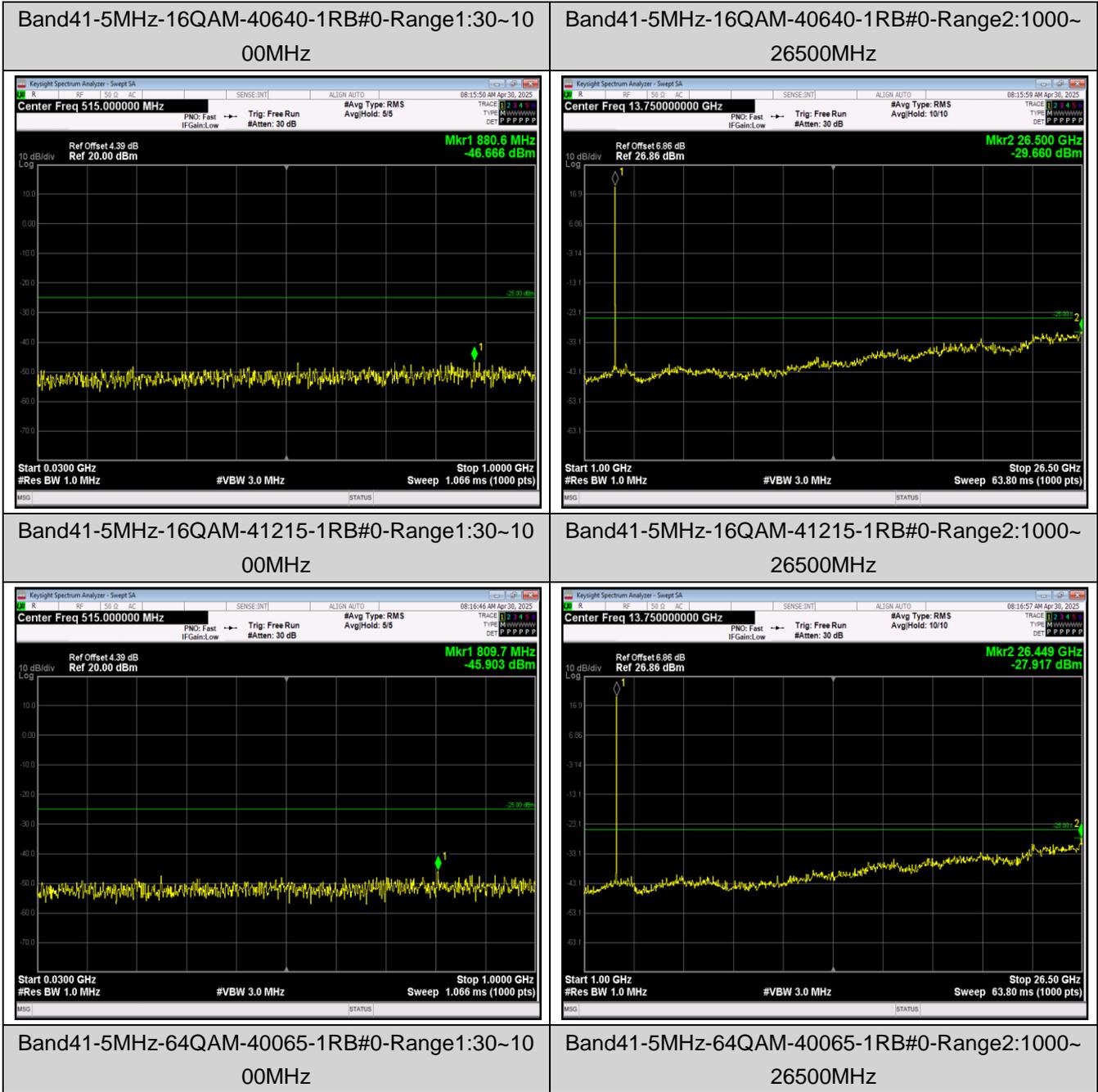
Band41-5MHz-QPSK-41215-1RB#0-Range2:1000~2
 6500MHz

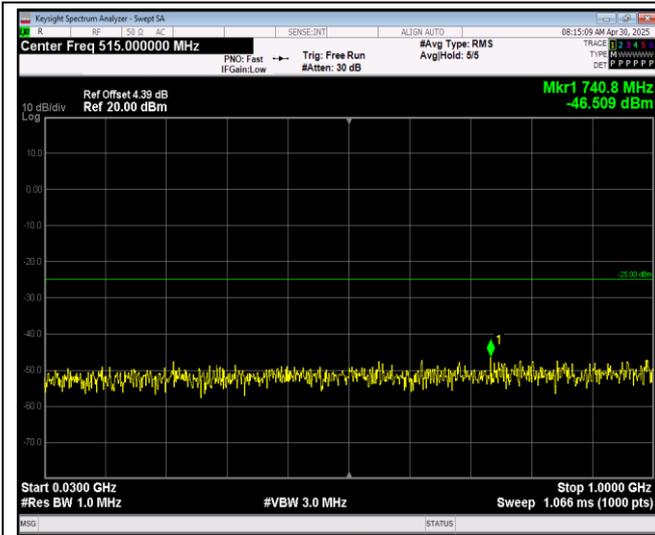


Band41-5MHz-16QAM-40065-1RB#0-Range1:30~10
 00MHz

Band41-5MHz-16QAM-40065-1RB#0-Range2:1000~
 26500MHz



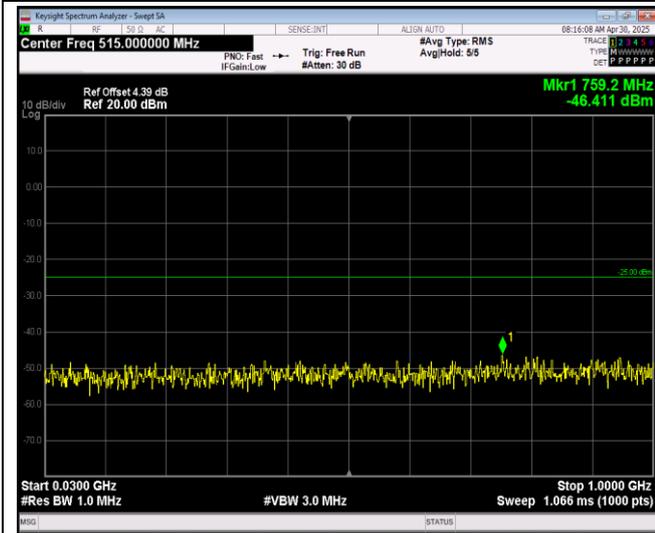




Band41-5MHz-64QAM-40640-1RB#0-Range1:30~1000MHz



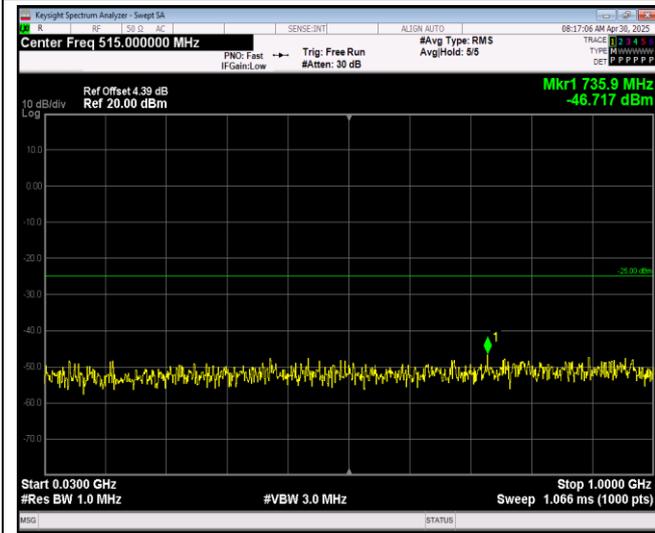
Band41-5MHz-64QAM-40640-1RB#0-Range2:1000~26500MHz



Band41-5MHz-64QAM-41215-1RB#0-Range1:30~1000MHz



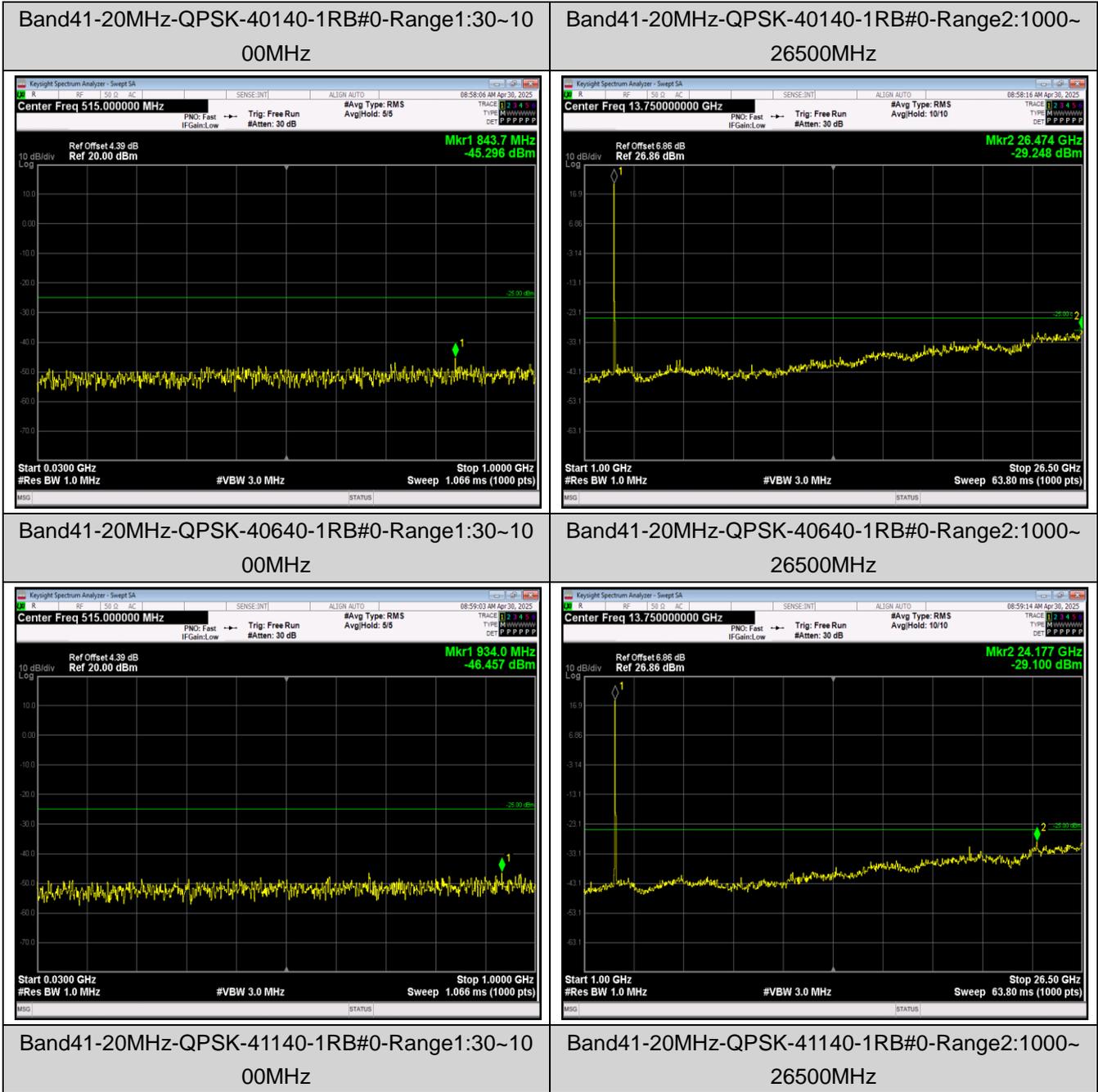
Band41-5MHz-64QAM-41215-1RB#0-Range2:1000~26500MHz

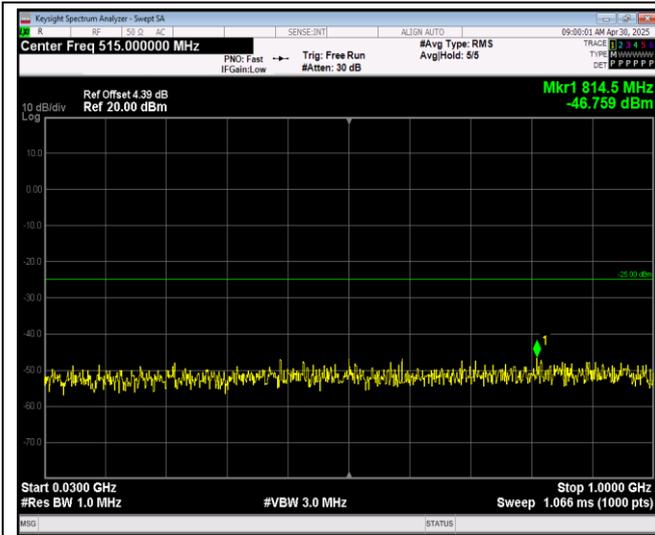


Band41-5MHz-64QAM-41215-1RB#0-Range1:30~1000MHz



Band41-5MHz-64QAM-41215-1RB#0-Range2:1000~26500MHz

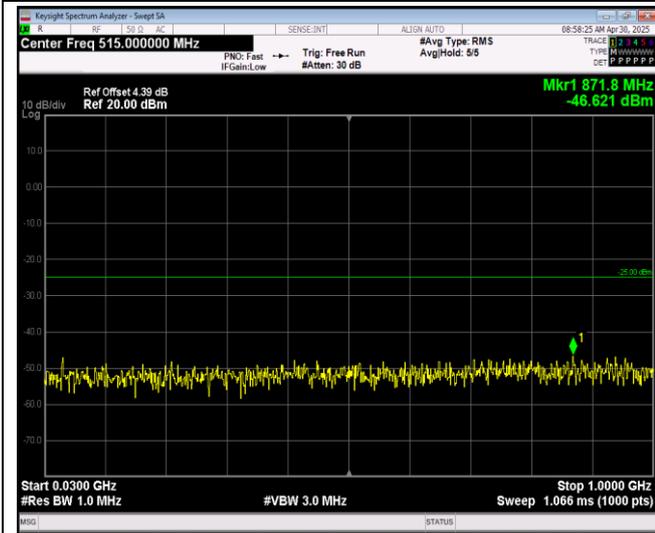




Band41-20MHz-16QAM-40140-1RB#0-Range1:30~1000MHz



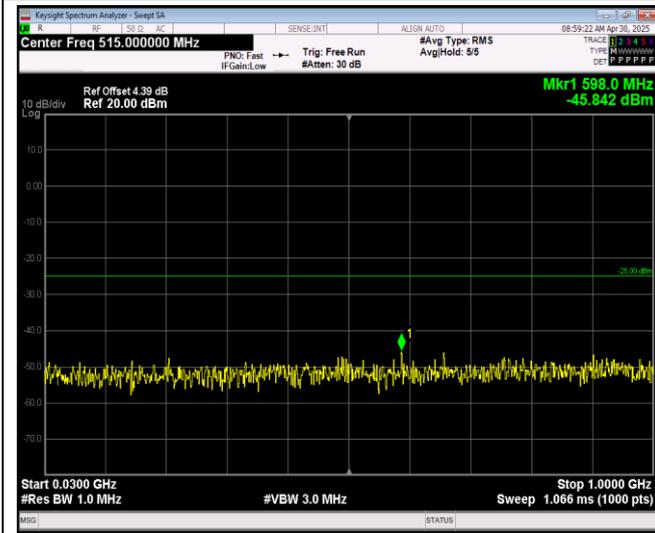
Band41-20MHz-16QAM-40140-1RB#0-Range2: 1000~26500MHz



Band41-20MHz-16QAM-40640-1RB#0-Range1:30~1000MHz



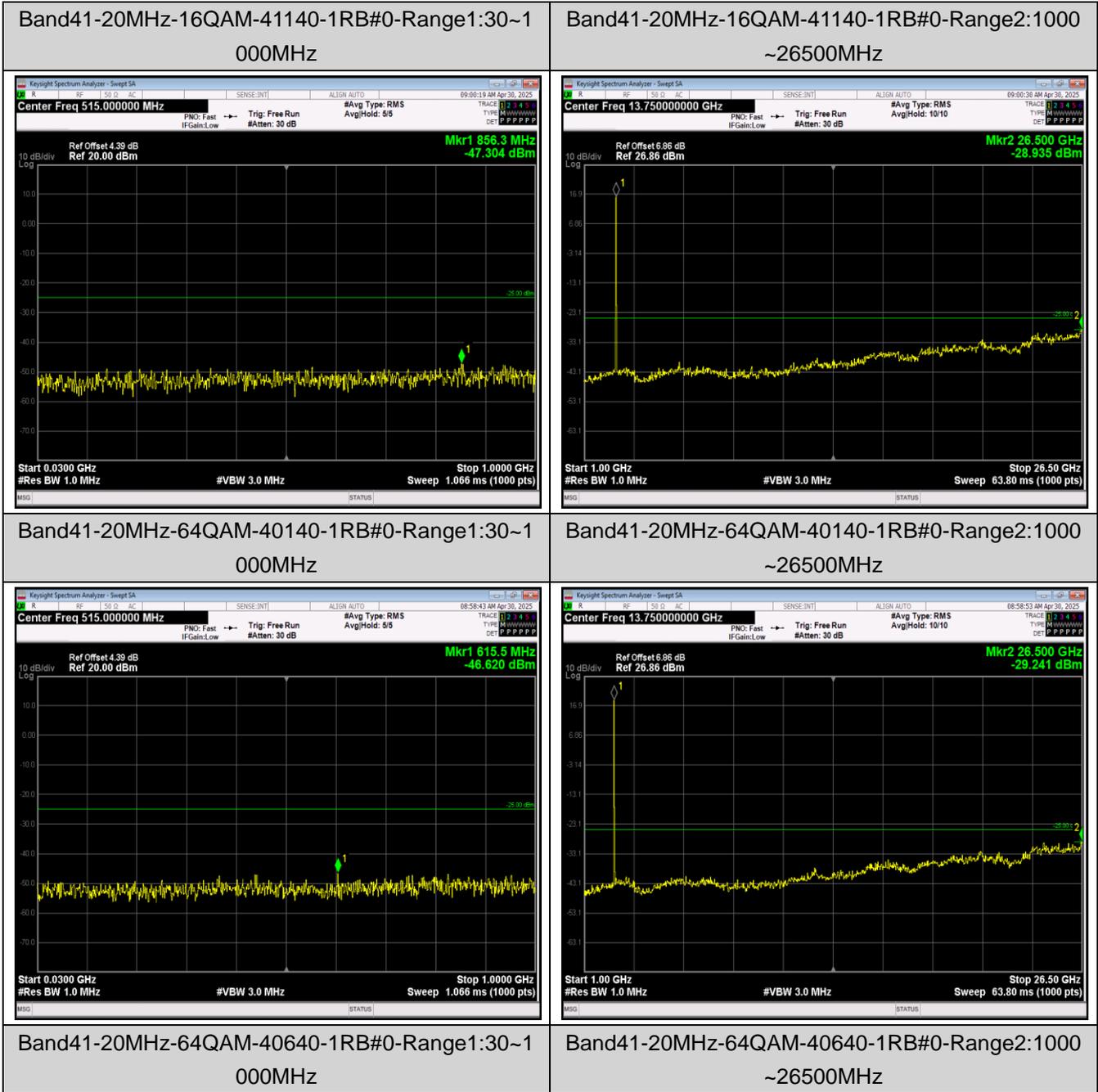
Band41-20MHz-16QAM-40640-1RB#0-Range2: 1000~26500MHz

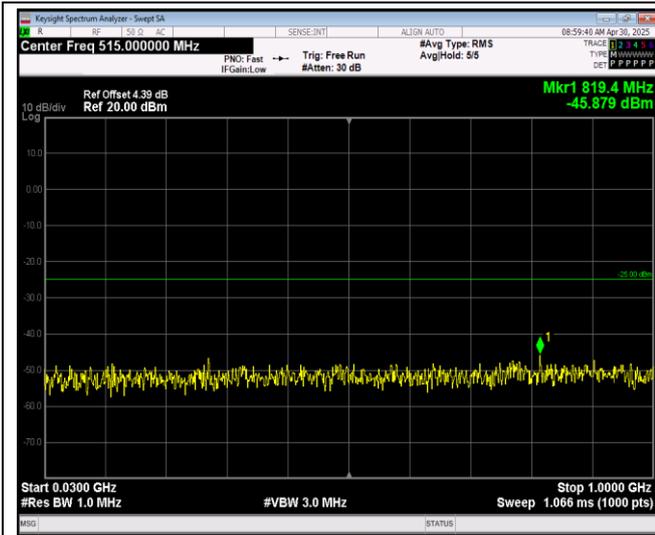


Band41-20MHz-16QAM-40640-1RB#0-Range1:30~1000MHz



Band41-20MHz-16QAM-40640-1RB#0-Range2: 1000~26500MHz

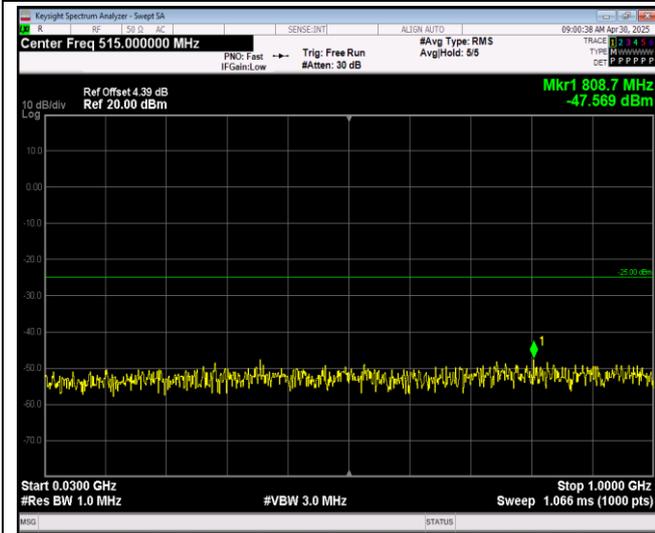




Band41-20MHz-64QAM-41140-1RB#0-Range1:30~1000MHz



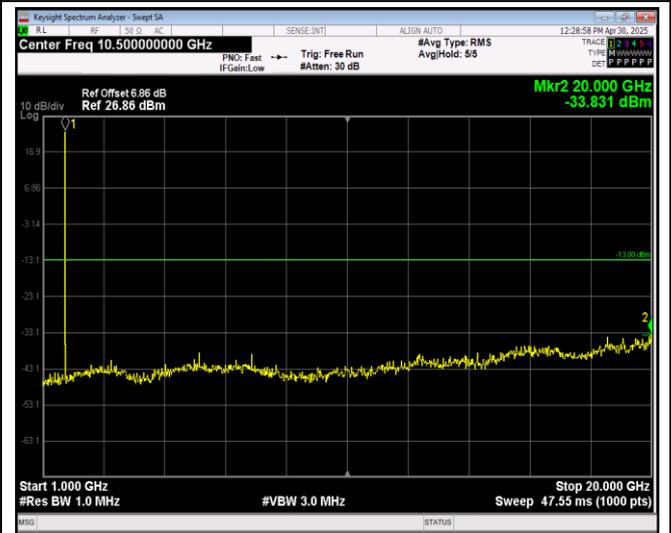
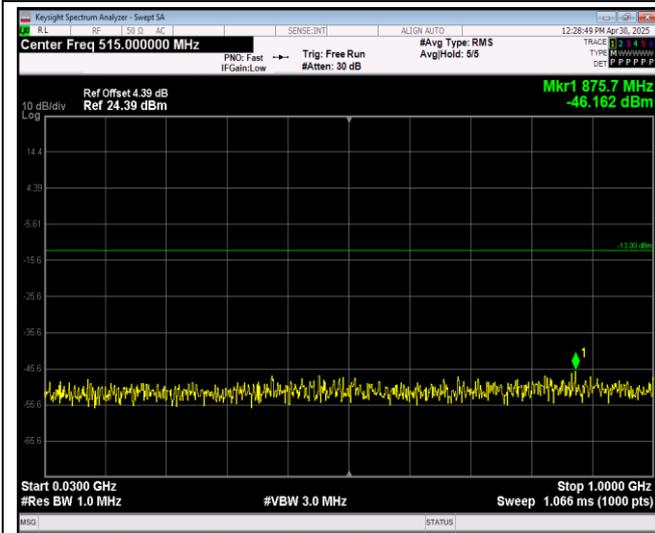
Band41-20MHz-64QAM-41140-1RB#0-Range2:1000~26500MHz

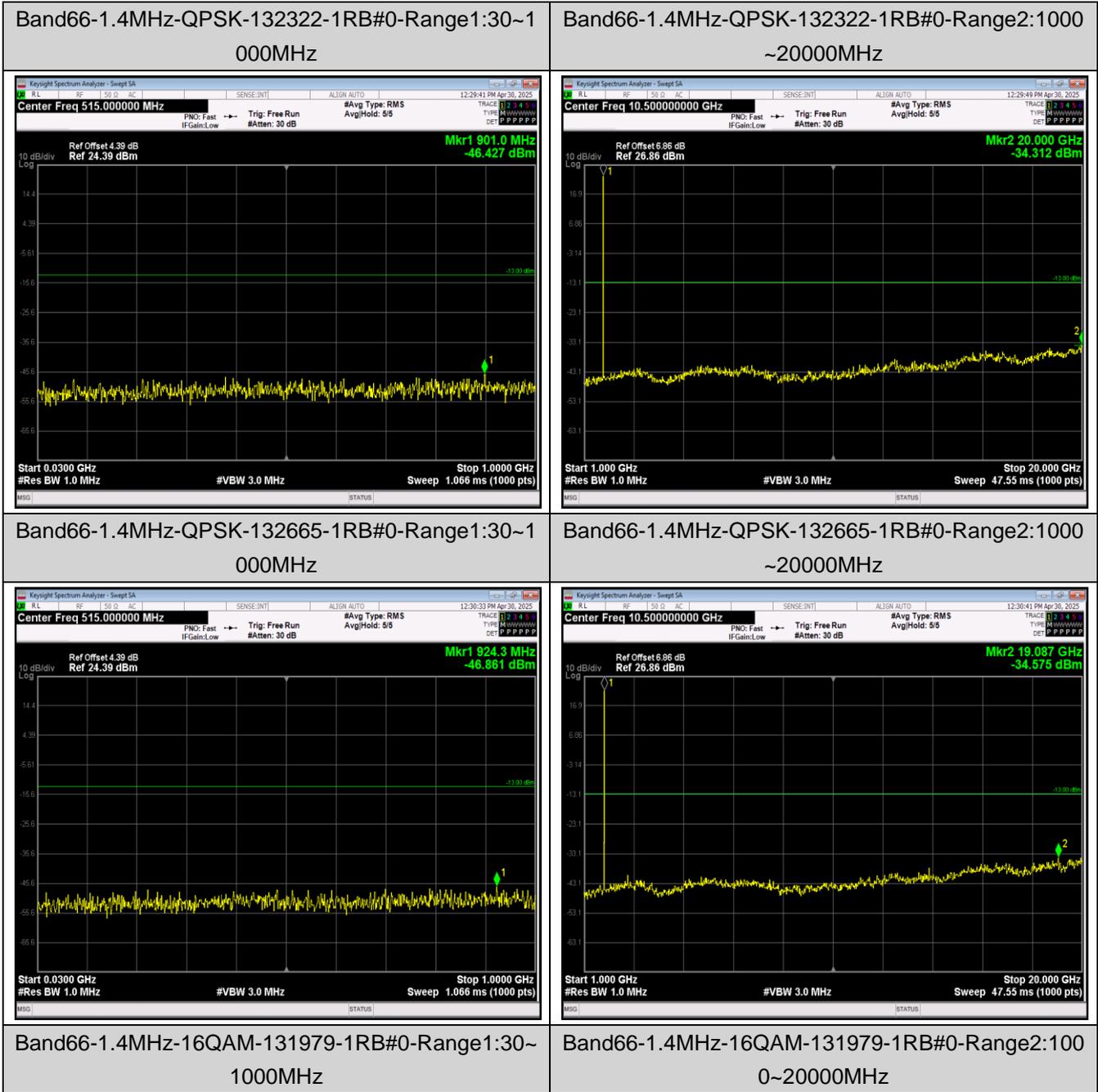


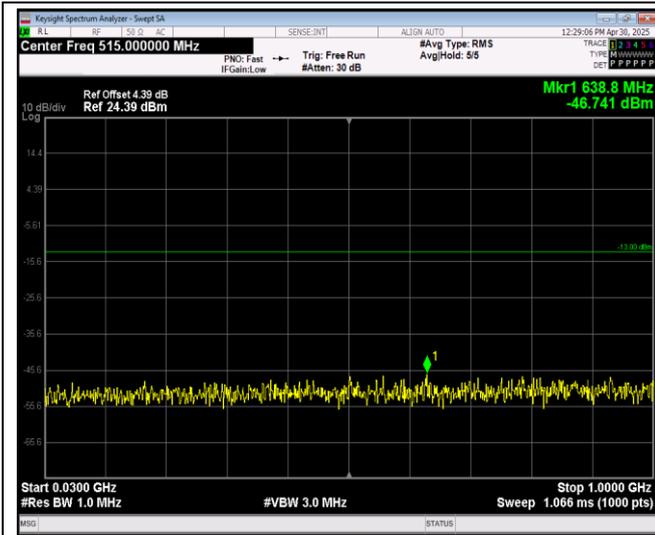
Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30~1000MHz



Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000~20000MHz



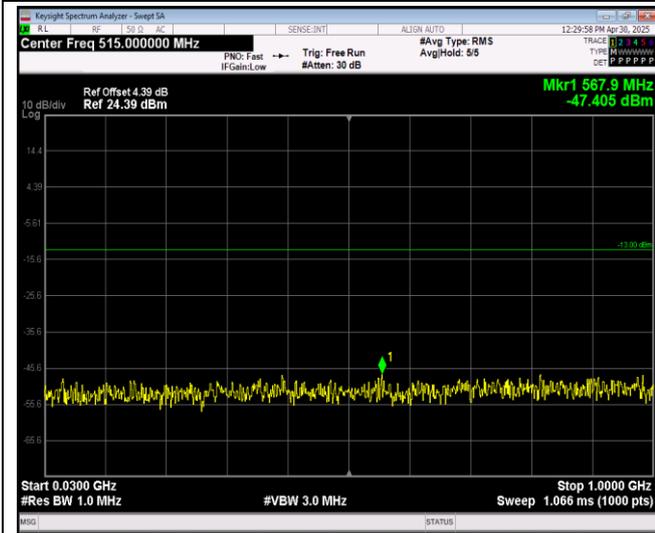




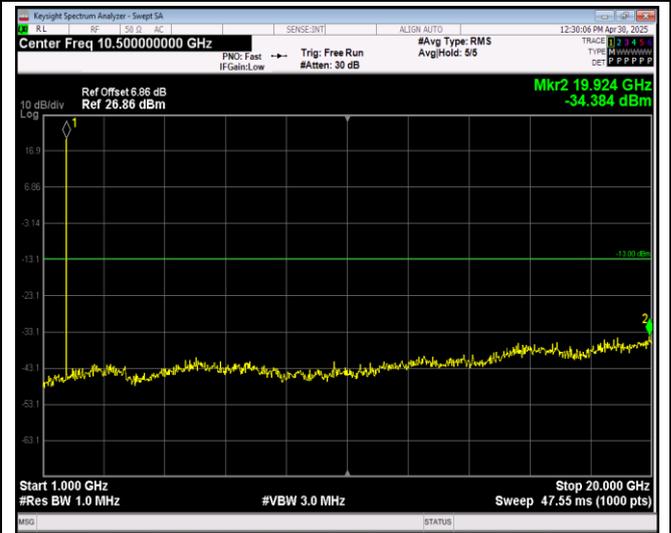
Band66-1.4MHz-16QAM-132322-1RB#0-Range1:30~1000MHz



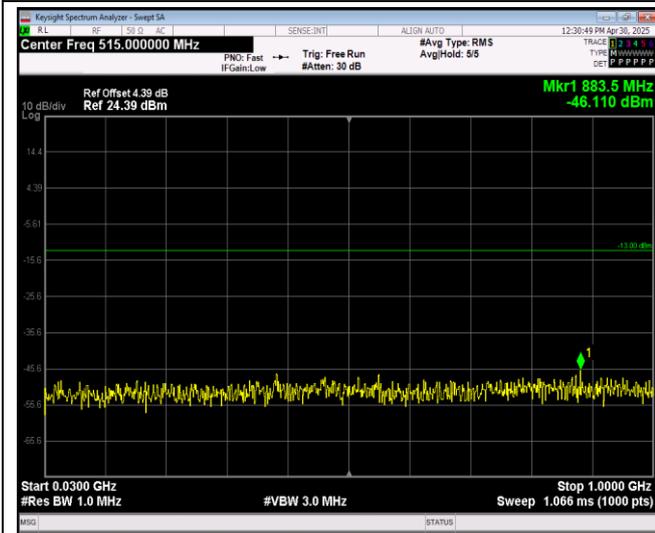
Band66-1.4MHz-16QAM-132322-1RB#0-Range2:100 0~20000MHz



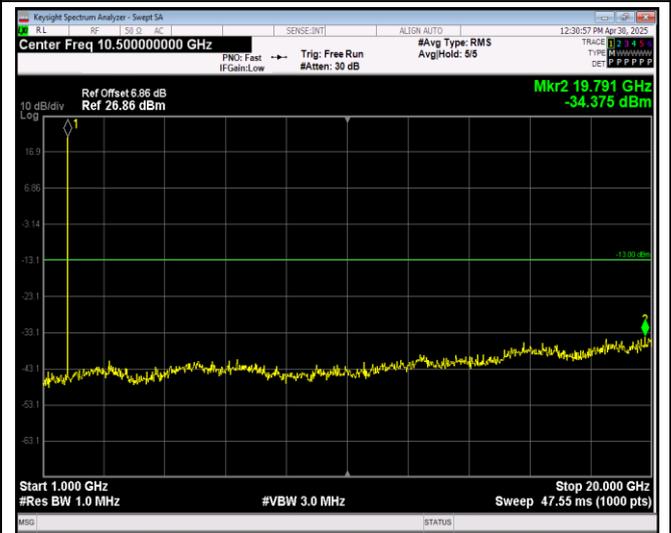
Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz



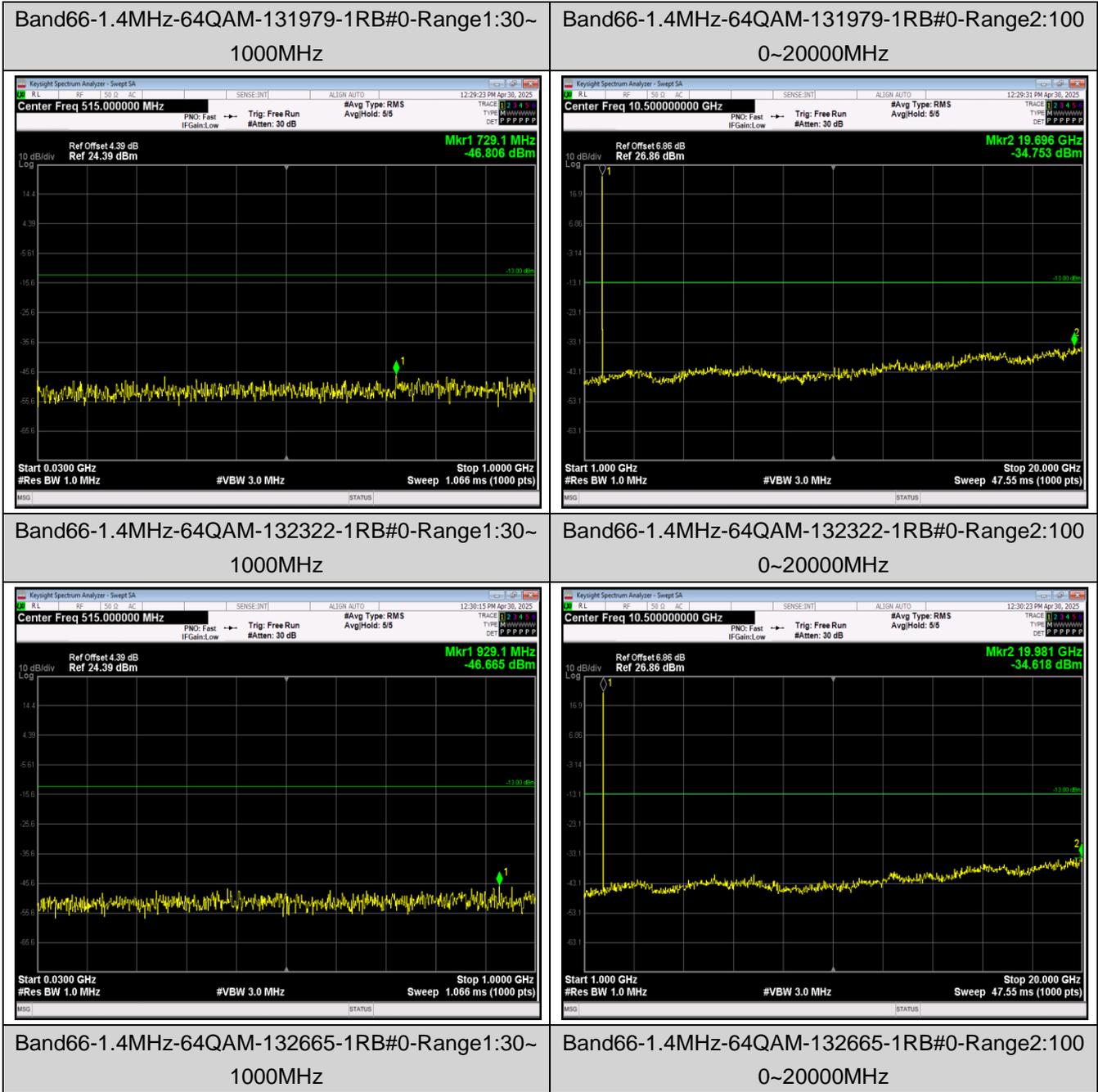
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:100 0~20000MHz

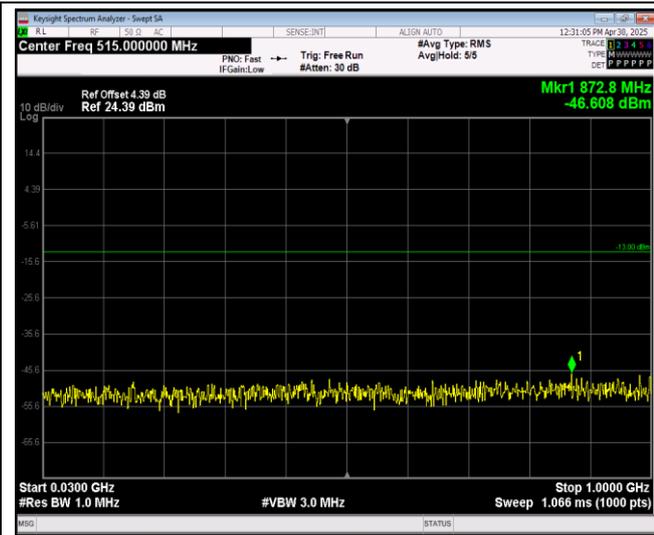


Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz



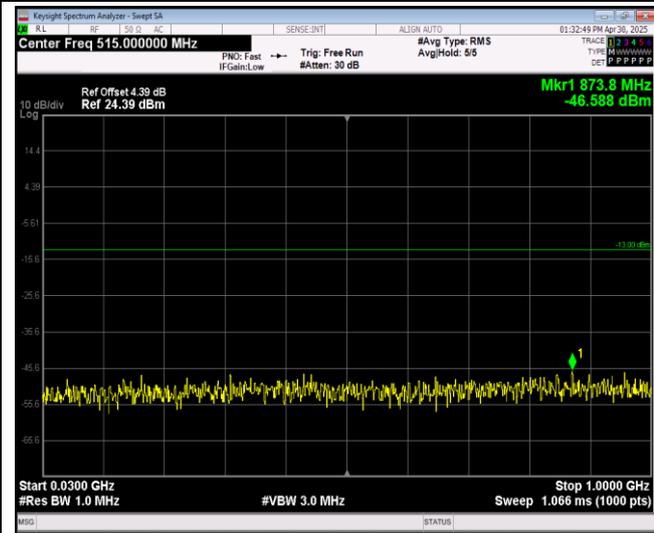
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:100 0~20000MHz





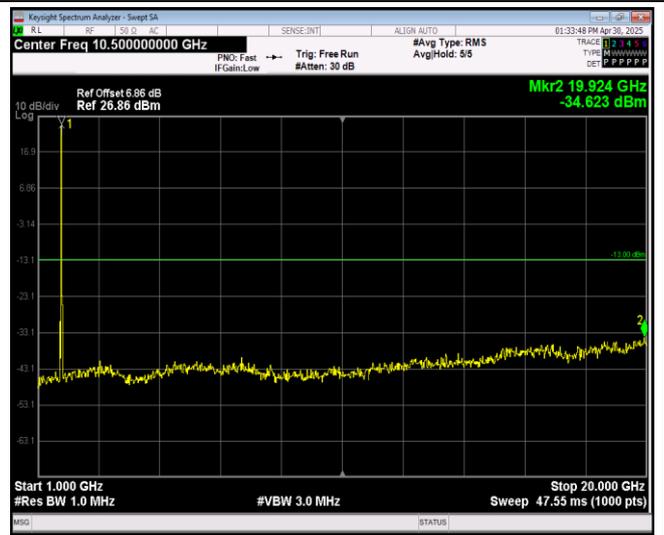
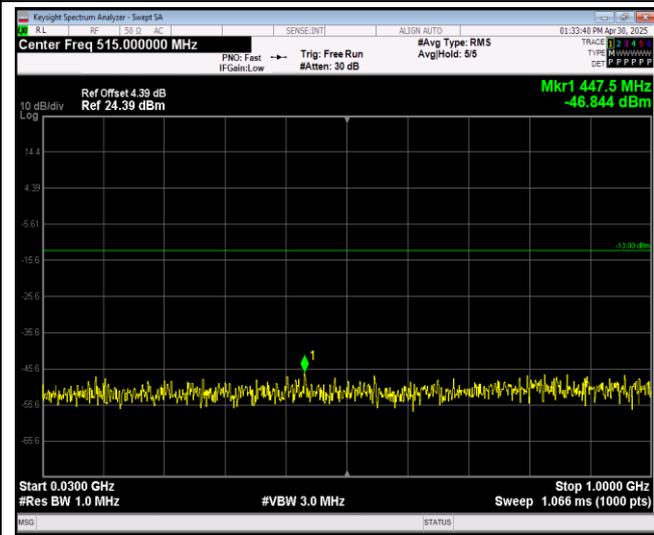
Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1000MHz

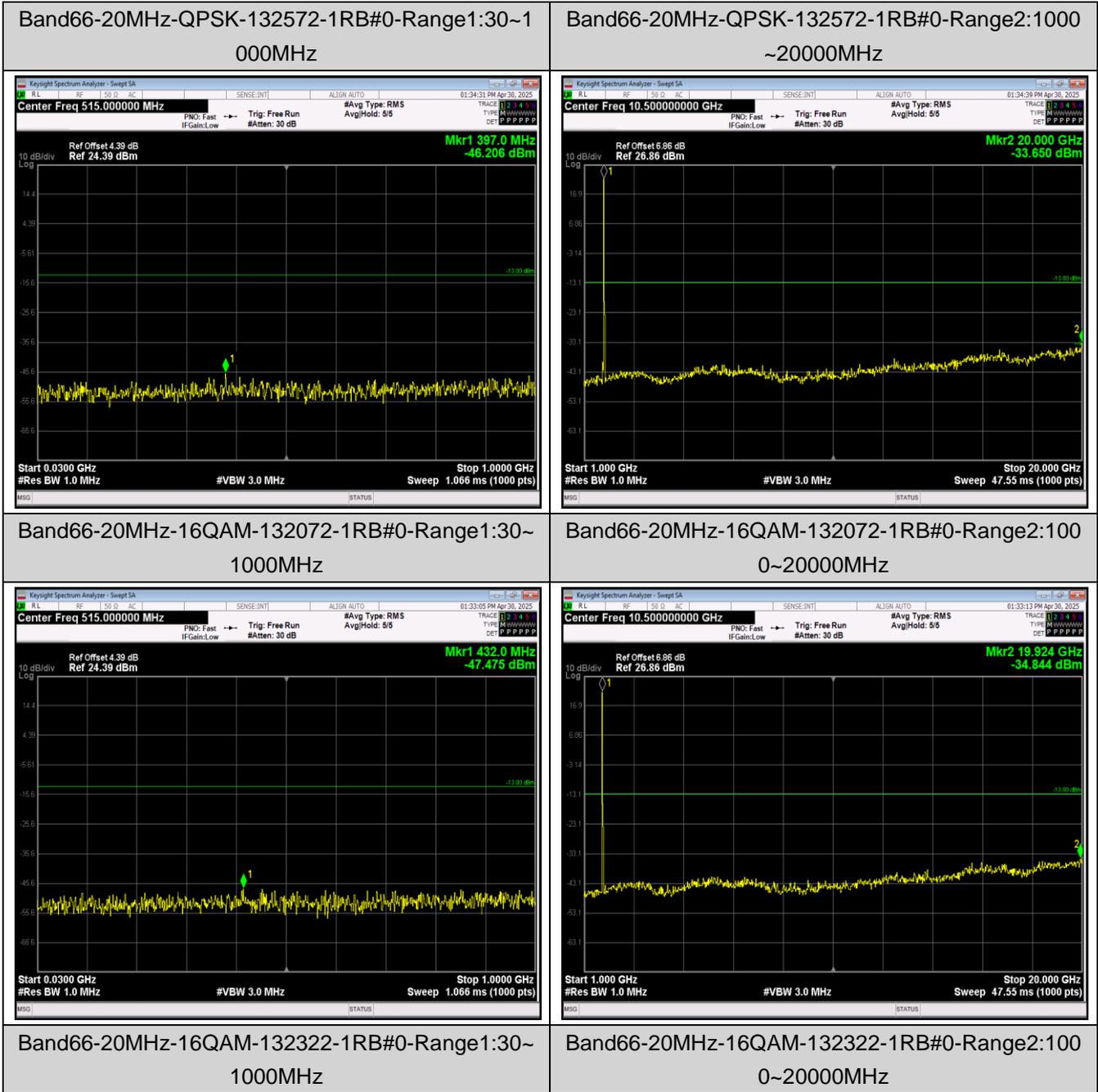
Band66-20MHz-QPSK-132072-1RB#0-Range2: 1000~20000MHz

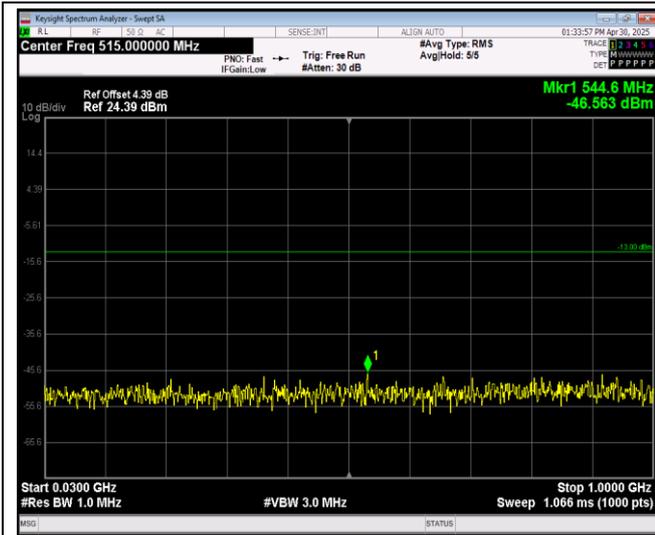


Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz

Band66-20MHz-QPSK-132322-1RB#0-Range2: 1000~20000MHz

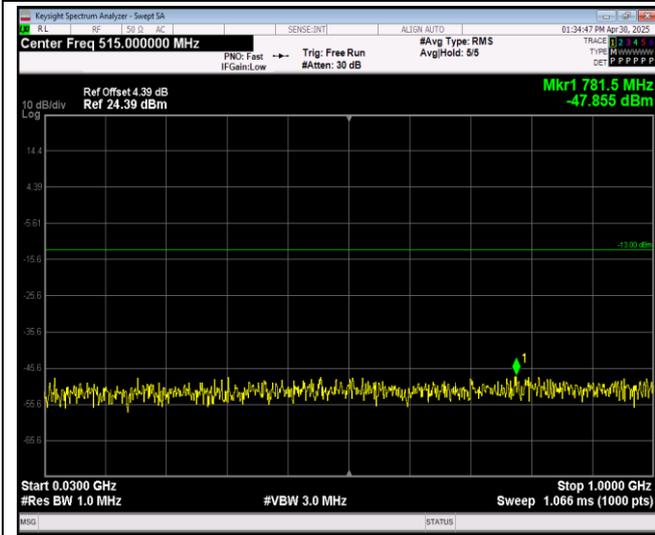






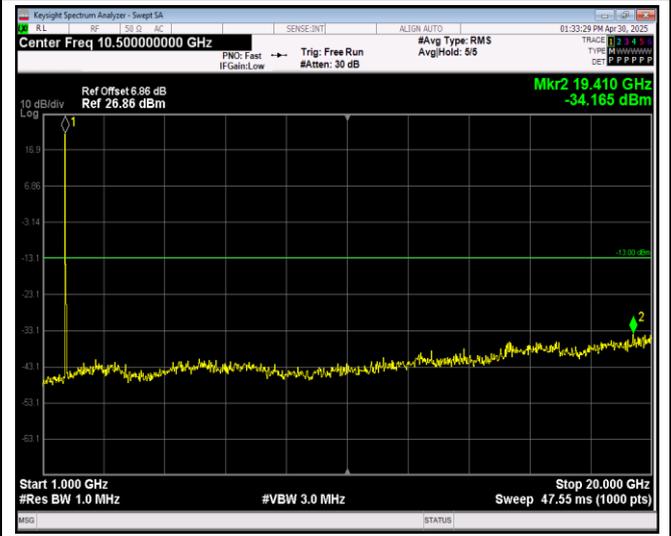
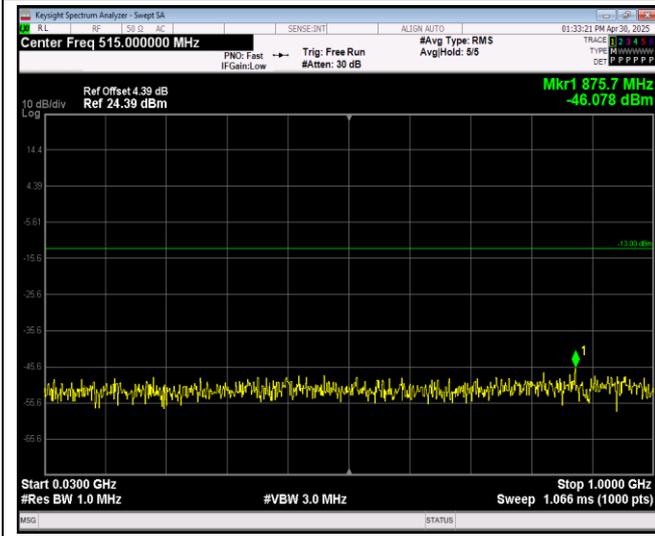
Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz

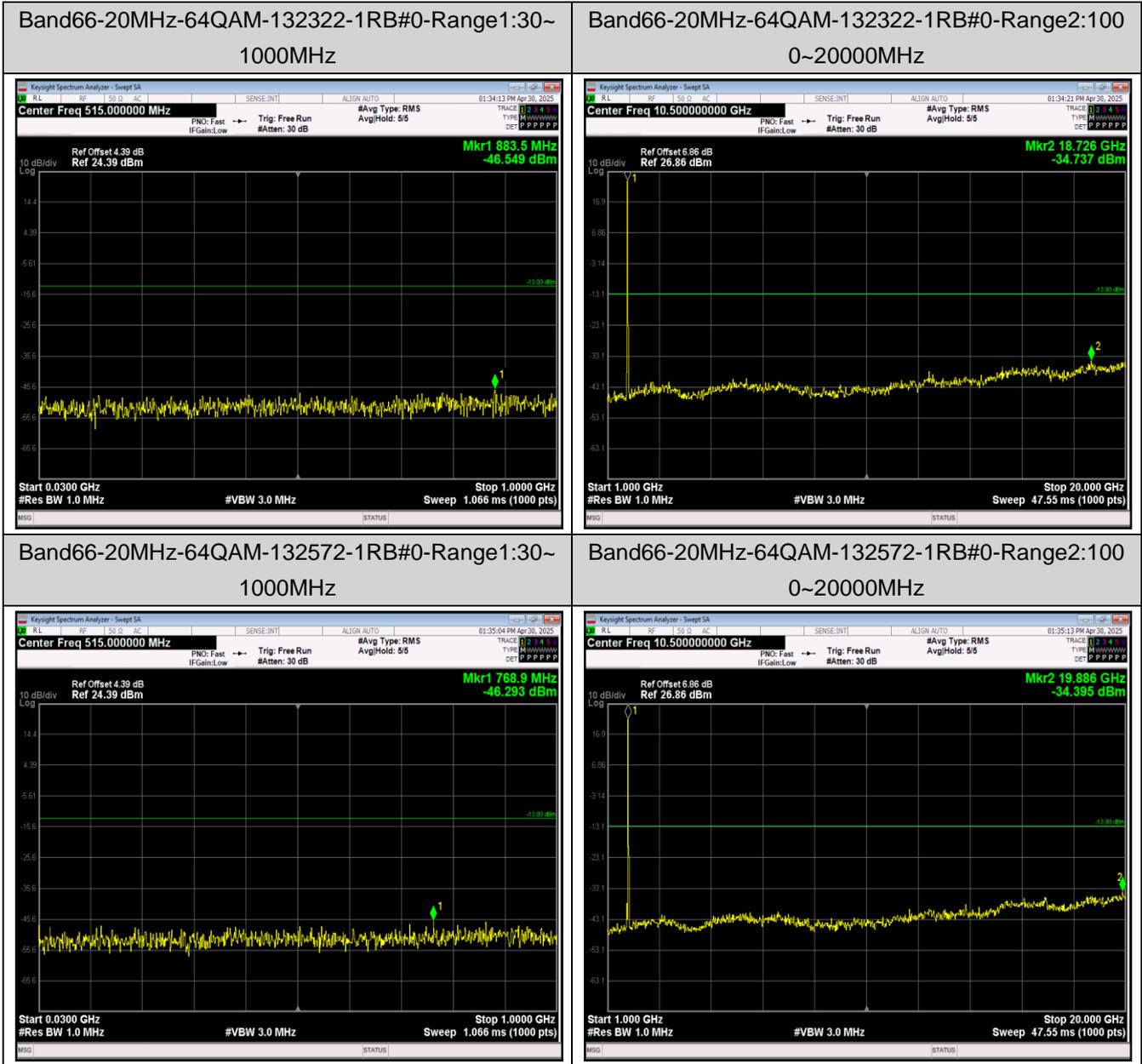
Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~20000MHz



Band66-20MHz-64QAM-132072-1RB#0-Range1:30~1000MHz

Band66-20MHz-64QAM-132072-1RB#0-Range2:1000~20000MHz





Appendix F: Frequency Stability

Test Result

LTE Band 2 part:

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz | | | | | |
|--|------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -14.98 | -0.007968 | Within authorized band for Band 2 | Pass |
| | -20 | -13.26 | -0.007053 | | |
| | -10 | -13.43 | -0.007144 | | |
| | 0 | -7.40 | -0.003936 | | |
| | 10 | -16.25 | -0.008644 | | |
| | 20 | -18.41 | -0.009793 | | |
| | 30 | -12.97 | -0.006899 | | |
| | 40 | -11.93 | -0.006346 | | |
| | 50 | -12.15 | -0.006463 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -13.80 | -0.007340 | Within authorized band for Band 2 | Pass |
| | -20 | -12.33 | -0.006559 | | |
| | -10 | -5.04 | -0.002681 | | |
| | 0 | -15.16 | -0.008064 | | |
| | 10 | 4.26 | 0.002266 | | |
| | 20 | -15.08 | -0.008021 | | |
| | 30 | -14.26 | -0.007585 | | |
| | 40 | -8.55 | -0.004548 | | |
| | 50 | -5.51 | -0.002931 | | |
| 64QAM | | | | | |
| 3.91 | -30 | 4.96 | 0.002638 | Within authorized band for Band 2 | Pass |
| | -20 | -11.46 | -0.006096 | | |
| | -10 | -14.23 | -0.007569 | | |
| | 0 | -10.40 | -0.005532 | | |
| | 10 | 3.85 | 0.002048 | | |
| | 20 | 6.91 | 0.003676 | | |
| | 30 | -13.40 | -0.007128 | | |
| | 40 | 3.23 | 0.001718 | | |
| | 50 | -11.46 | -0.006096 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -5.61 | -0.002984 | Within authorized band for Band 2 | Pass |
| | 3.91 | -20.99 | -0.011165 | | |
| | 4.50 | -18.00 | -0.009574 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -18.41 | -0.009793 | Within authorized band for Band 2 | Pass |
| | 3.91 | -10.64 | -0.005660 | | |
| | 4.50 | -9.70 | -0.005160 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -13.38 | -0.007117 | Within authorized band for Band 2 | Pass |
| | 3.91 | -10.24 | -0.005447 | | |
| | 4.50 | -14.92 | -0.007936 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 4 part:

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz | | | | | |
|---|------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -8.70 | -0.005022 | Within authorized band for Band 4 | Pass |
| | -20 | -16.34 | -0.009431 | | |
| | -10 | -17.60 | -0.010159 | | |
| | 0 | -8.80 | -0.005079 | | |
| | 10 | -9.60 | -0.005541 | | |
| | 20 | -9.97 | -0.005755 | | |
| | 30 | -14.39 | -0.008306 | | |
| | 40 | -17.05 | -0.009841 | | |
| | 50 | -12.39 | -0.007152 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -12.22 | -0.007053 | Within authorized band for Band 4 | Pass |
| | -20 | -12.96 | -0.007481 | | |
| | -10 | -6.72 | -0.003879 | | |
| | 0 | -10.60 | -0.006118 | | |
| | 10 | -6.07 | -0.003504 | | |
| | 20 | -8.58 | -0.004952 | | |
| | 30 | -12.23 | -0.007059 | | |
| | 40 | -10.40 | -0.006003 | | |
| | 50 | -6.54 | -0.003775 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -10.79 | -0.006228 | Within authorized band for Band 4 | Pass |
| | -20 | -7.93 | -0.004577 | | |
| | -10 | -11.40 | -0.006580 | | |
| | 0 | -9.31 | -0.005374 | | |
| | 10 | 9.23 | 0.005328 | | |
| | 20 | 7.97 | 0.004600 | | |
| | 30 | -9.70 | -0.005599 | | |
| | 40 | -10.91 | -0.006297 | | |
| | 50 | -10.40 | -0.006003 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -11.39 | -0.006574 | Within authorized band for Band 4 | Pass |
| | 3.91 | -13.10 | -0.007561 | | |
| | 4.50 | -10.90 | -0.006291 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -8.60 | -0.004964 | Within authorized band for Band 4 | Pass |
| | 3.91 | -9.50 | -0.005483 | | |
| | 4.50 | -6.41 | -0.003700 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -8.20 | -0.004733 | Within authorized band for Band 4 | Pass |
| | 3.91 | -10.64 | -0.006141 | | |
| | 4.50 | -9.86 | -0.005691 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 5 part:

| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz | | | | | |
|--|------------------|-----------------|-----------|-------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -6.84 | -0.008177 | ±2.5 | Pass |
| | -20 | -10.69 | -0.012779 | | |
| | -10 | 1.87 | 0.002236 | | |
| | 0 | -8.78 | -0.010496 | | |
| | 10 | -5.92 | -0.007077 | | |
| | 20 | -7.82 | -0.009348 | | |
| | 30 | -7.85 | -0.009384 | | |
| | 40 | -6.31 | -0.007543 | | |
| | 50 | -7.61 | -0.009097 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -11.19 | -0.013377 | ±2.5 | Pass |
| | -20 | -6.81 | -0.008141 | | |
| | -10 | -5.46 | -0.006527 | | |
| | 0 | -3.71 | -0.004435 | | |
| | 10 | -6.92 | -0.008273 | | |
| | 20 | -9.73 | -0.011632 | | |
| | 30 | -5.75 | -0.006874 | | |
| | 40 | -7.95 | -0.009504 | | |
| | 50 | -7.07 | -0.008452 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -9.53 | -0.011393 | ±2.5 | Pass |
| | -20 | -10.51 | -0.012564 | | |
| | -10 | -10.76 | -0.012863 | | |
| | 0 | -6.02 | -0.007197 | | |
| | 10 | -13.65 | -0.016318 | | |
| | 20 | -6.21 | -0.007424 | | |
| | 30 | -8.04 | -0.009611 | | |
| | 40 | -8.70 | -0.010400 | | |
| | 50 | -3.96 | -0.004734 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|-------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -7.84 | -0.009372 | ±2.5 | Pass |
| | 3.91 | -9.64 | -0.011524 | | |
| | 4.50 | -11.53 | -0.013784 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -8.40 | -0.010042 | ±2.5 | Pass |
| | 3.91 | -9.93 | -0.011871 | | |
| | 4.50 | -7.18 | -0.008583 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -6.74 | -0.008057 | ±2.5 | Pass |
| | 3.91 | 3.89 | 0.004650 | | |
| | 4.50 | -10.97 | -0.013114 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 7 part:

| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz | | | | | |
|---|------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -15.96 | -0.006296 | Within authorized band for Band 7 | Pass |
| | -20 | -17.60 | -0.006943 | | |
| | -10 | 4.84 | 0.001909 | | |
| | 0 | -9.30 | -0.003669 | | |
| | 10 | -14.91 | -0.005882 | | |
| | 20 | -12.40 | -0.004892 | | |
| | 30 | -16.85 | -0.006647 | | |
| | 40 | -4.28 | -0.001688 | | |
| | 50 | -13.90 | -0.005483 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -13.48 | -0.005318 | Within authorized band for Band 7 | Pass |
| | -20 | -8.23 | -0.003247 | | |
| | -10 | 12.07 | 0.004761 | | |
| | 0 | -15.23 | -0.006008 | | |
| | 10 | -10.39 | -0.004099 | | |
| | 20 | -17.70 | -0.006982 | | |
| | 30 | -14.89 | -0.005874 | | |
| | 40 | 3.30 | 0.001302 | | |
| | 50 | -9.38 | -0.003700 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -11.99 | -0.004730 | Within authorized band for Band 7 | Pass |
| | -20 | -9.34 | -0.003684 | | |
| | -10 | -8.37 | -0.003302 | | |
| | 0 | -11.00 | -0.004339 | | |
| | 10 | -13.98 | -0.005515 | | |
| | 20 | -8.61 | -0.003396 | | |
| | 30 | 13.68 | 0.005396 | | |
| | 40 | -8.41 | -0.003318 | | |
| | 50 | -8.17 | -0.003223 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -11.84 | -0.004671 | Within authorized band for Band 7 | Pass |
| | 3.91 | -13.60 | -0.005365 | | |
| | 4.50 | -14.49 | -0.005716 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -15.09 | -0.005953 | Within authorized band for Band 7 | Pass |
| | 3.91 | -17.48 | -0.006895 | | |
| | 4.50 | -13.18 | -0.005199 | | |
| 64QAM | | | | | |
| 25 | 3.45 | 9.38 | 0.003700 | Within authorized band for Band 7 | Pass |
| | 3.91 | -12.59 | -0.004966 | | |
| | 4.50 | -16.84 | -0.006643 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 12 part:

| Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.5MHz | | | | | |
|---|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -5.71 | -0.008071 | Within authorized band for Band 12 | Pass |
| | -20 | -6.87 | -0.009710 | | |
| | -10 | -7.72 | -0.010912 | | |
| | 0 | -9.04 | -0.012777 | | |
| | 10 | -9.37 | -0.013244 | | |
| | 20 | -8.70 | -0.012297 | | |
| | 30 | -9.31 | -0.013159 | | |
| | 40 | -12.33 | -0.017428 | | |
| | 50 | -7.37 | -0.010417 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -8.67 | -0.012254 | Within authorized band for Band 12 | Pass |
| | -20 | -10.09 | -0.014261 | | |
| | -10 | -7.34 | -0.010375 | | |
| | 0 | -7.97 | -0.011265 | | |
| | 10 | -5.61 | -0.007929 | | |
| | 20 | -10.96 | -0.015491 | | |
| | 30 | -9.13 | -0.012905 | | |
| | 40 | -7.81 | -0.011039 | | |
| | 50 | -4.46 | -0.006304 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -10.81 | -0.015279 | Within authorized band for Band 12 | Pass |
| | -20 | -7.48 | -0.010572 | | |
| | -10 | -8.07 | -0.011406 | | |
| | 0 | -7.55 | -0.010671 | | |
| | 10 | -4.89 | -0.006912 | | |
| | 20 | -5.44 | -0.007689 | | |
| | 30 | -9.14 | -0.012919 | | |
| | 40 | -9.10 | -0.012862 | | |
| | 50 | -6.74 | -0.009527 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -10.61 | -0.014996 | Within authorized band for Band 12 | Pass |
| | 3.91 | -12.25 | -0.017314 | | |
| | 4.50 | -6.35 | -0.008975 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -8.11 | -0.011463 | Within authorized band for Band 12 | Pass |
| | 3.91 | -9.60 | -0.013569 | | |
| | 4.50 | -6.45 | -0.009117 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -6.04 | -0.008537 | Within authorized band for Band 12 | Pass |
| | 3.91 | -3.63 | -0.005131 | | |
| | 4.50 | -7.28 | -0.010290 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 17 part:

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz | | | | | |
|---|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -4.42 | -0.006225 | Within authorized band for Band 17 | Pass |
| | -20 | -10.40 | -0.014648 | | |
| | -10 | -9.80 | -0.013803 | | |
| | 0 | -8.15 | -0.011479 | | |
| | 10 | -9.28 | -0.013070 | | |
| | 20 | -10.01 | -0.014099 | | |
| | 30 | -9.08 | -0.012789 | | |
| | 40 | -10.57 | -0.014887 | | |
| | 50 | -6.39 | -0.009000 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -6.72 | -0.009465 | Within authorized band for Band 17 | Pass |
| | -20 | -9.57 | -0.013479 | | |
| | -10 | -6.78 | -0.009549 | | |
| | 0 | -7.38 | -0.010394 | | |
| | 10 | -9.08 | -0.012789 | | |
| | 20 | -11.97 | -0.016859 | | |
| | 30 | -6.04 | -0.008507 | | |
| | 40 | -5.62 | -0.007915 | | |
| | 50 | -4.85 | -0.006831 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -6.72 | -0.009465 | Within authorized band for Band 17 | Pass |
| | -20 | -5.26 | -0.007408 | | |
| | -10 | -8.91 | -0.012549 | | |
| | 0 | -6.92 | -0.009746 | | |
| | 10 | -7.74 | -0.010901 | | |
| | 20 | -6.69 | -0.009423 | | |
| | 30 | -12.85 | -0.018099 | | |
| | 40 | -9.03 | -0.012718 | | |
| | 50 | -10.17 | -0.014324 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -8.94 | -0.012592 | Within authorized band for Band 17 | Pass |
| | 3.91 | -8.43 | -0.011873 | | |
| | 4.50 | -10.86 | -0.015296 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -8.84 | -0.012451 | Within authorized band for Band 17 | Pass |
| | 3.91 | -6.59 | -0.009282 | | |
| | 4.50 | -6.04 | -0.008507 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -4.36 | -0.006141 | Within authorized band for Band 17 | Pass |
| | 3.91 | -6.24 | -0.008789 | | |
| | 4.50 | -5.26 | -0.007408 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 38 part:

| Reference Frequency: LTE Band 38(10MHz) Middle channel=38000 Frequency=2595.0MHz | | | | | |
|--|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -10.36 | -0.003992 | Within authorized band for Band 38 | Pass |
| | -20 | -13.82 | -0.005326 | | |
| | -10 | -3.82 | -0.001472 | | |
| | 0 | -16.49 | -0.006355 | | |
| | 10 | -7.90 | -0.003044 | | |
| | 20 | -7.02 | -0.002705 | | |
| | 30 | 2.68 | 0.001033 | | |
| | 40 | -9.46 | -0.003645 | | |
| | 50 | -7.65 | -0.002948 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -10.10 | -0.003892 | Within authorized band for Band 38 | Pass |
| | -20 | -16.51 | -0.006362 | | |
| | -10 | -10.14 | -0.003908 | | |
| | 0 | -12.19 | -0.004697 | | |
| | 10 | -7.90 | -0.003044 | | |
| | 20 | -15.42 | -0.005942 | | |
| | 30 | -9.41 | -0.003626 | | |
| | 40 | 4.22 | 0.001626 | | |
| | 50 | -13.58 | -0.005233 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -10.20 | -0.003931 | Within authorized band for Band 38 | Pass |
| | -20 | -12.90 | -0.004971 | | |
| | -10 | -13.50 | -0.005202 | | |
| | 0 | -10.29 | -0.003965 | | |
| | 10 | 4.22 | 0.001626 | | |
| | 20 | -6.57 | -0.002532 | | |
| | 30 | -7.95 | -0.003064 | | |
| | 40 | -19.56 | -0.007538 | | |
| | 50 | -7.55 | -0.002909 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -11.26 | -0.004339 | Within authorized band for Band 38 | Pass |
| | 3.91 | -14.68 | -0.005657 | | |
| | 4.50 | -6.91 | -0.002663 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -13.60 | -0.005241 | Within authorized band for Band 38 | Pass |
| | 3.91 | -2.93 | -0.001129 | | |
| | 4.50 | -10.33 | -0.003981 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -9.47 | -0.003649 | Within authorized band for Band 38 | Pass |
| | 3.91 | -4.88 | -0.001881 | | |
| | 4.50 | -8.04 | -0.003098 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 41 part:

| Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz | | | | | |
|---|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -10.96 | -0.004224 | Within authorized band for Band 41 | Pass |
| | -20 | -19.33 | -0.007449 | | |
| | -10 | -12.70 | -0.004894 | | |
| | 0 | -14.08 | -0.005426 | | |
| | 10 | -11.03 | -0.004250 | | |
| | 20 | -9.96 | -0.003838 | | |
| | 30 | -17.28 | -0.006659 | | |
| | 40 | -15.99 | -0.006162 | | |
| | 50 | -6.77 | -0.002609 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -13.13 | -0.005060 | Within authorized band for Band 41 | Pass |
| | -20 | -13.66 | -0.005264 | | |
| | -10 | -10.19 | -0.003927 | | |
| | 0 | -10.36 | -0.003992 | | |
| | 10 | -15.22 | -0.005865 | | |
| | 20 | -14.53 | -0.005599 | | |
| | 30 | -17.65 | -0.006802 | | |
| | 40 | -8.83 | -0.003403 | | |
| | 50 | -12.37 | -0.004767 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -10.26 | -0.003954 | Within authorized band for Band 41 | Pass |
| | -20 | -19.93 | -0.007680 | | |
| | -10 | -12.49 | -0.004813 | | |
| | 0 | -14.52 | -0.005595 | | |
| | 10 | -14.63 | -0.005638 | | |
| | 20 | -16.25 | -0.006262 | | |
| | 30 | -9.67 | -0.003726 | | |
| | 40 | -13.06 | -0.005033 | | |
| | 50 | -11.67 | -0.004497 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -14.63 | -0.005638 | Within authorized band for Band 41 | Pass |
| | 3.91 | -26.31 | -0.010139 | | |
| | 4.50 | -13.00 | -0.005010 | | |
| 16QAM | | | | | |
| 25 | 3.45 | -18.45 | -0.007110 | Within authorized band for Band41 | Pass |
| | 3.91 | -10.31 | -0.003973 | | |
| | 4.50 | -20.90 | -0.008054 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -11.13 | -0.004289 | Within authorized band for Band41 | Pass |
| | 3.91 | -6.95 | -0.002678 | | |
| | 4.50 | -22.23 | -0.008566 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

LTE Band 66 part:

| Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz | | | | | |
|--|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.91 | -30 | -15.85 | -0.009083 | Within authorized band for Band 66 | Pass |
| | -20 | -14.19 | -0.008132 | | |
| | -10 | -13.95 | -0.007994 | | |
| | 0 | -15.39 | -0.008819 | | |
| | 10 | -8.61 | -0.004934 | | |
| | 20 | -20.48 | -0.011736 | | |
| | 30 | -15.78 | -0.009043 | | |
| | 40 | -10.16 | -0.005822 | | |
| | 50 | -23.67 | -0.013564 | | |
| 16QAM | | | | | |
| 3.91 | -30 | -7.08 | -0.004057 | Within authorized band for Band 66 | Pass |
| | -20 | -15.22 | -0.008722 | | |
| | -10 | -8.55 | -0.004900 | | |
| | 0 | -8.64 | -0.004951 | | |
| | 10 | -15.46 | -0.008860 | | |
| | 20 | -16.87 | -0.009668 | | |
| | 30 | -15.34 | -0.008791 | | |
| | 40 | 19.30 | 0.011060 | | |
| | 50 | -19.73 | -0.011307 | | |
| 64QAM | | | | | |
| 3.91 | -30 | -13.66 | -0.007828 | Within authorized band for Band 66 | Pass |
| | -20 | 7.71 | 0.004418 | | |
| | -10 | -16.22 | -0.009295 | | |
| | 0 | -8.77 | -0.005026 | | |
| | 10 | -18.21 | -0.010436 | | |
| | 20 | -2.15 | -0.001232 | | |
| | 30 | -10.99 | -0.006298 | | |
| | 40 | -21.39 | -0.012258 | | |
| | 50 | -13.00 | -0.007450 | | |

| Voltage | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 3.45 | -14.20 | -0.008138 | Within authorized band for Band 66 | Pass |
| | 3.91 | -22.83 | -0.013083 | | |
| | 4.50 | -11.99 | -0.006871 | | |
| 16QAM | | | | | |
| 25 | 3.45 | 10.19 | 0.005840 | Within authorized band for Band 66 | Pass |
| | 3.91 | -15.42 | -0.008837 | | |
| | 4.50 | -14.06 | -0.008057 | | |
| 64QAM | | | | | |
| 25 | 3.45 | -11.76 | -0.006739 | Within authorized band for Band 66 | Pass |
| | 3.91 | 9.80 | 0.005616 | | |
| | 4.50 | -19.07 | -0.010928 | | |
| <i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i> | | | | | |

Appendix G: Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | PASS | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | PASS | PASS |
| Band2 | 20MHz | 64QAM | 18900 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | PASS | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | PASS | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | PASS | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | PASS | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | PASS | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | PASS | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | PASS | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | PASS | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | PASS | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 50RB#0 | PASS | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | PASS | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | PASS | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | PASS | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | PASS | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | PASS | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | PASS | PASS |
| Band41 | 20MHz | QPSK | 40640 | 100RB#0 | PASS | PASS |
| Band41 | 20MHz | 16QAM | 40640 | 100RB#0 | PASS | PASS |
| Band41 | 20MHz | 64QAM | 40640 | 100RB#0 | PASS | PASS |
| Band66 | 20MHz | QPSK | 132322 | 100RB#0 | PASS | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | PASS | PASS |
| Band66 | 20MHz | 64QAM | 132322 | 100RB#0 | PASS | PASS |

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.