

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

| Band | Type | Channel | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|----------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | TestMode | 9262 | 23.07 | 23.30 | 33.01 | PASS |
| Band2 | TestMode | 9400 | 23.18 | 23.31 | 33.01 | PASS |
| Band2 | TestMode | 9538 | 22.87 | 23.10 | 33.01 | PASS |
| Band5 | TestMode | 4132 | 22.60 | 18.63 | 38.45 | PASS |
| Band5 | TestMode | 4183 | 22.88 | 18.91 | 38.45 | PASS |
| Band5 | TestMode | 4233 | 22.71 | 18.74 | 38.45 | PASS |

Test Result(HSDPA)

| Band | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262 | 1 | 22.11 | 22.34 | 33.01 | PASS |
| Band2 | 9262 | 2 | 21.54 | 21.77 | 33.01 | PASS |
| Band2 | 9262 | 3 | 21.53 | 21.76 | 33.01 | PASS |
| Band2 | 9262 | 4 | 21.55 | 21.78 | 33.01 | PASS |
| Band2 | 9400 | 1 | 22.24 | 22.47 | 33.01 | PASS |
| Band2 | 9400 | 2 | 21.67 | 21.9 | 33.01 | PASS |
| Band2 | 9400 | 3 | 21.68 | 21.91 | 33.01 | PASS |
| Band2 | 9400 | 4 | 21.68 | 21.91 | 33.01 | PASS |
| Band2 | 9538 | 1 | 22.10 | 22.33 | 33.01 | PASS |
| Band2 | 9538 | 2 | 21.52 | 21.75 | 33.01 | PASS |
| Band2 | 9538 | 3 | 21.50 | 21.73 | 33.01 | PASS |
| Band2 | 9538 | 4 | 21.59 | 21.82 | 33.01 | PASS |
| Band5 | 4132 | 1 | 21.85 | 17.88 | 38.5 | PASS |
| Band5 | 4132 | 2 | 21.32 | 17.35 | 38.5 | PASS |
| Band5 | 4132 | 3 | 21.15 | 17.18 | 38.5 | PASS |
| Band5 | 4132 | 4 | 21.13 | 17.16 | 38.5 | PASS |
| Band5 | 4183 | 1 | 22.09 | 18.12 | 38.5 | PASS |
| Band5 | 4183 | 2 | 21.55 | 17.58 | 38.5 | PASS |
| Band5 | 4183 | 3 | 21.41 | 17.44 | 38.5 | PASS |
| Band5 | 4183 | 4 | 21.35 | 17.38 | 38.5 | PASS |
| Band5 | 4233 | 1 | 21.91 | 17.94 | 38.5 | PASS |
| Band5 | 4233 | 2 | 21.36 | 17.39 | 38.5 | PASS |
| Band5 | 4233 | 3 | 21.25 | 17.28 | 38.5 | PASS |
| Band5 | 4233 | 4 | 21.20 | 17.23 | 38.5 | PASS |

Test Result(HSUPA)

| Band | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262 | 1 | 20.07 | 20.3 | 33.01 | PASS |
| Band2 | 9262 | 2 | 20.57 | 20.8 | 33.01 | PASS |
| Band2 | 9262 | 3 | 21.06 | 21.29 | 33.01 | PASS |
| Band2 | 9262 | 4 | 20.08 | 20.31 | 33.01 | PASS |
| Band2 | 9262 | 5 | 22.07 | 22.3 | 33.01 | PASS |
| Band2 | 9400 | 1 | 20.20 | 20.43 | 33.01 | PASS |
| Band2 | 9400 | 2 | 20.74 | 20.97 | 33.01 | PASS |
| Band2 | 9400 | 3 | 21.22 | 21.45 | 33.01 | PASS |
| Band2 | 9400 | 4 | 20.22 | 20.45 | 33.01 | PASS |
| Band2 | 9400 | 5 | 22.22 | 22.45 | 33.01 | PASS |
| Band2 | 9538 | 1 | 20.04 | 20.27 | 33.01 | PASS |
| Band2 | 9538 | 2 | 20.55 | 20.78 | 33.01 | PASS |
| Band2 | 9538 | 3 | 21.05 | 21.28 | 33.01 | PASS |
| Band2 | 9538 | 4 | 20.08 | 20.31 | 33.01 | PASS |
| Band2 | 9538 | 5 | 22.06 | 22.29 | 33.01 | PASS |
| Band5 | 4132 | 1 | 19.87 | 15.9 | 38.5 | PASS |
| Band5 | 4132 | 2 | 20.39 | 16.42 | 38.5 | PASS |
| Band5 | 4132 | 3 | 20.88 | 16.91 | 38.5 | PASS |
| Band5 | 4132 | 4 | 19.87 | 15.9 | 38.5 | PASS |
| Band5 | 4132 | 5 | 21.79 | 17.82 | 38.5 | PASS |
| Band5 | 4183 | 1 | 20.10 | 16.13 | 38.5 | PASS |
| Band5 | 4183 | 2 | 20.59 | 16.62 | 38.5 | PASS |
| Band5 | 4183 | 3 | 21.11 | 17.14 | 38.5 | PASS |
| Band5 | 4183 | 4 | 20.12 | 16.15 | 38.5 | PASS |
| Band5 | 4183 | 5 | 22.12 | 18.15 | 38.5 | PASS |
| Band5 | 4233 | 1 | 19.93 | 15.96 | 38.5 | PASS |
| Band5 | 4233 | 2 | 20.44 | 16.47 | 38.5 | PASS |
| Band5 | 4233 | 3 | 20.92 | 16.95 | 38.5 | PASS |
| Band5 | 4233 | 4 | 19.97 | 16 | 38.5 | PASS |
| Band5 | 4233 | 5 | 21.96 | 17.99 | 38.5 | PASS |

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

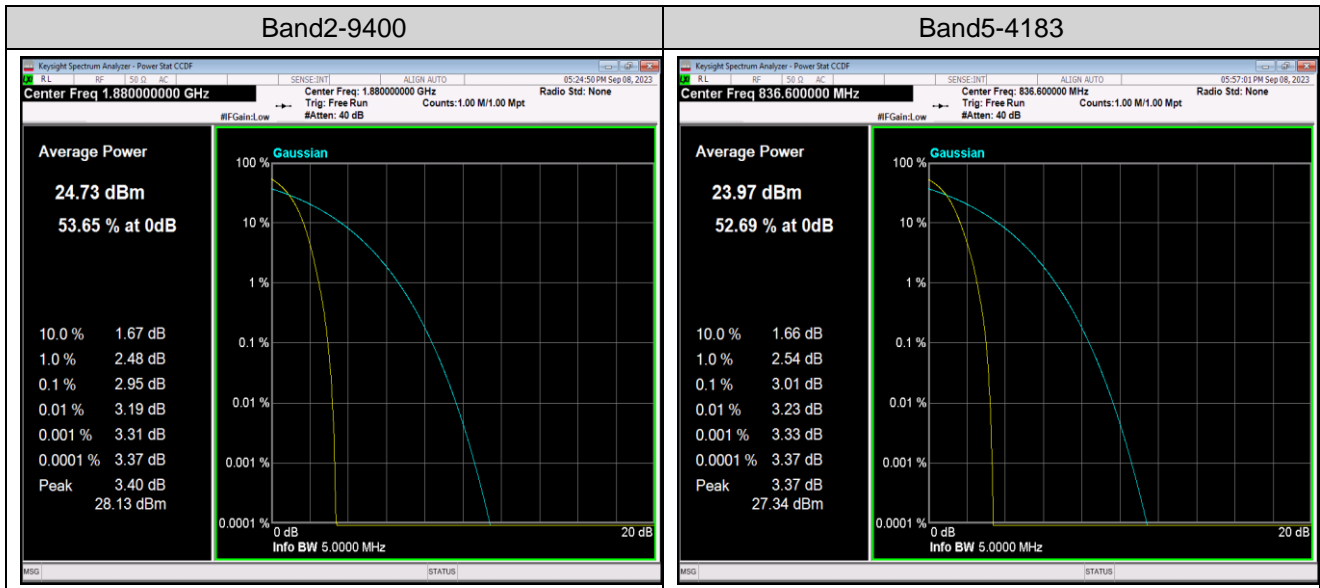
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400 | 2.95 | 13 | PASS |
| Band5 | 4183 | 3.01 | 13 | PASS |

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs(WCDMA)

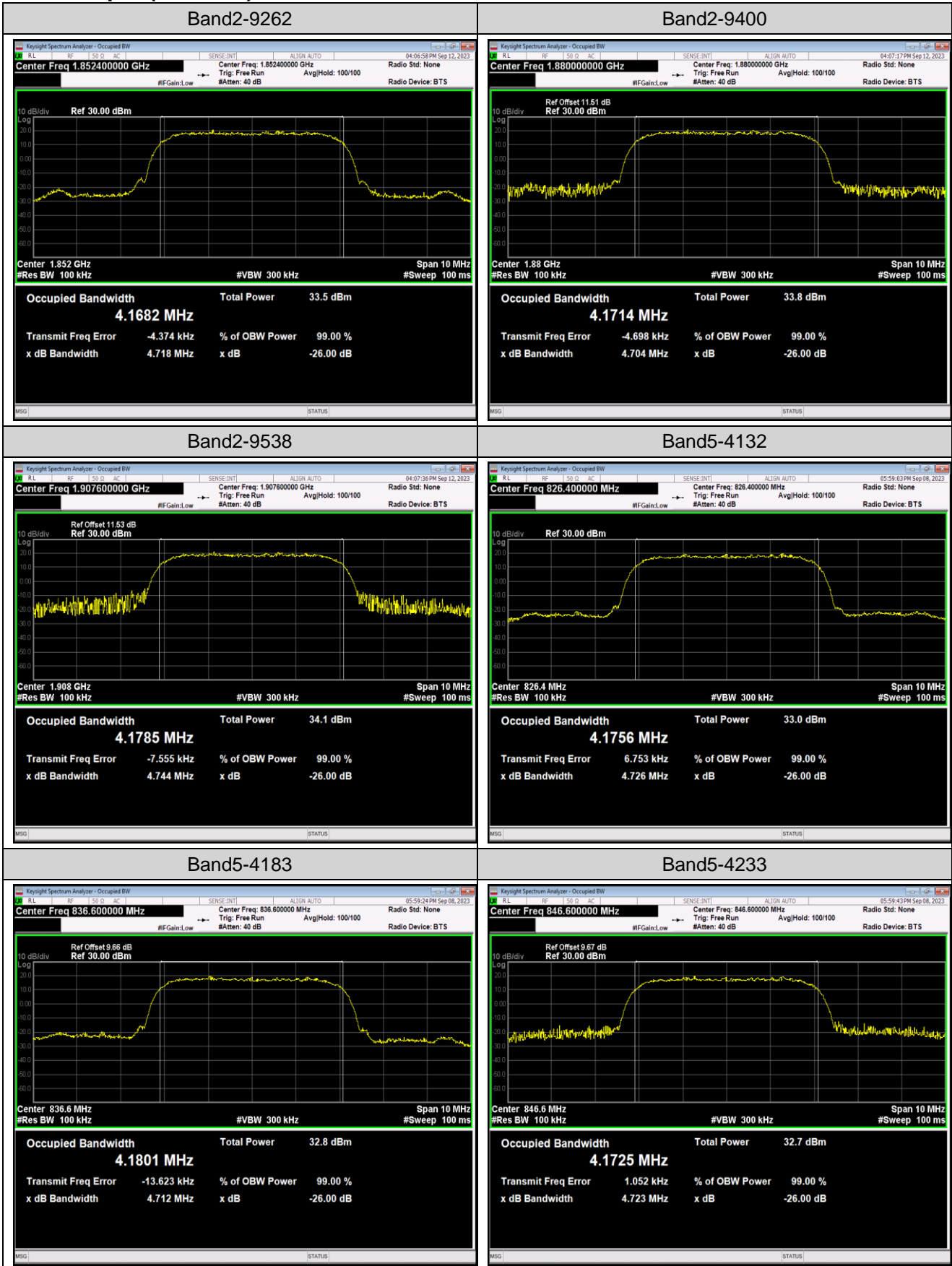


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9262 | 4.1682 | 4.718 | --- | PASS |
| Band2 | 9400 | 4.1714 | 4.704 | --- | PASS |
| Band2 | 9538 | 4.1785 | 4.744 | --- | PASS |
| Band5 | 4132 | 4.1756 | 4.726 | --- | PASS |
| Band5 | 4183 | 4.1801 | 4.712 | --- | PASS |
| Band5 | 4233 | 4.1725 | 4.723 | --- | PASS |

Test Graphs(WCDMA)

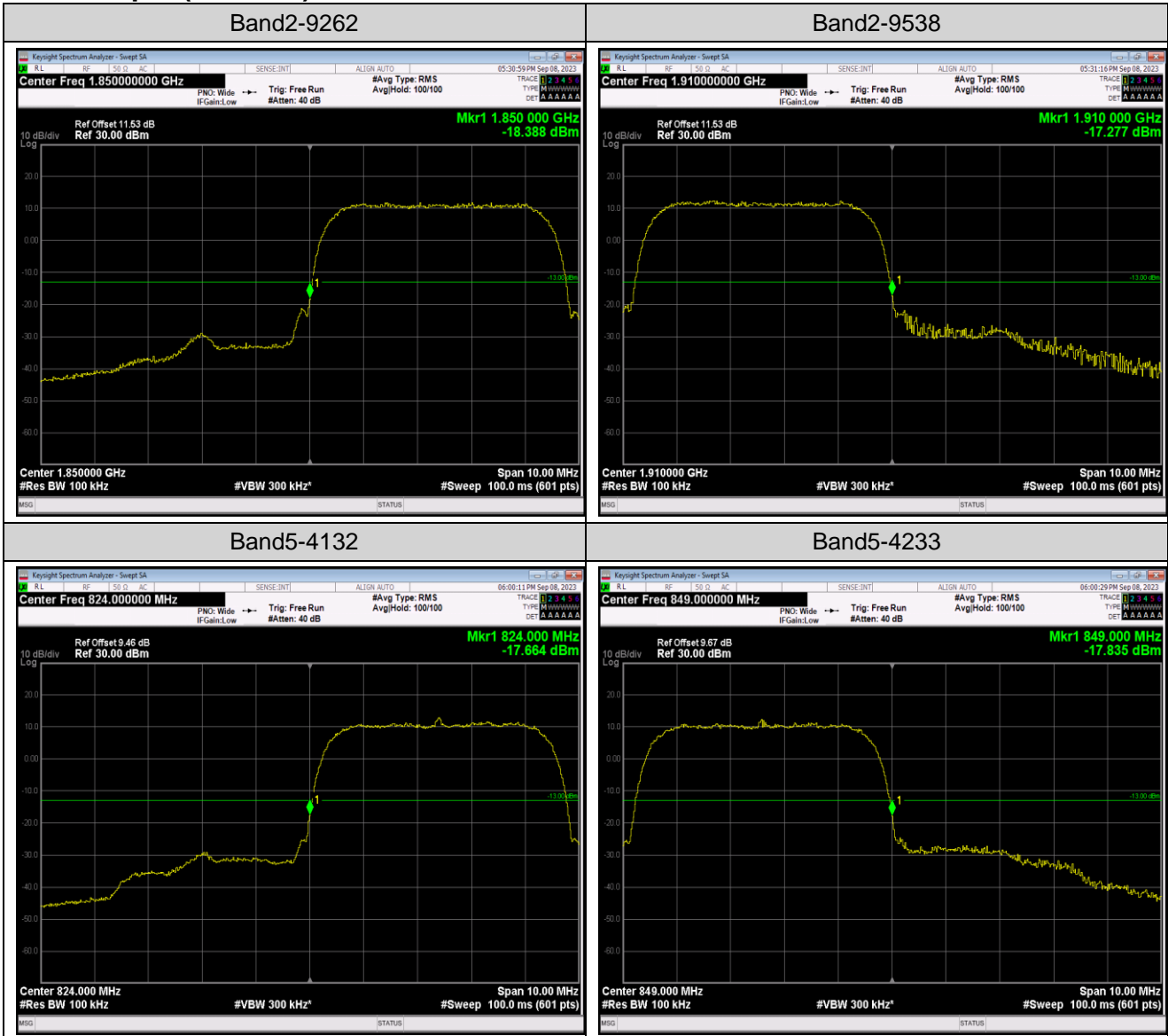


AppendixD:Band Edge

Test Result(WCDMA)

| Band | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262 | 1850.00 | -18.39 | -13 | PASS |
| Band2 | 9538 | 1910.00 | -17.28 | -13 | PASS |
| Band5 | 4132 | 824.00 | -17.66 | -13 | PASS |
| Band5 | 4233 | 849.00 | -17.83 | -13 | PASS |

Test Graphs(WCDMA)

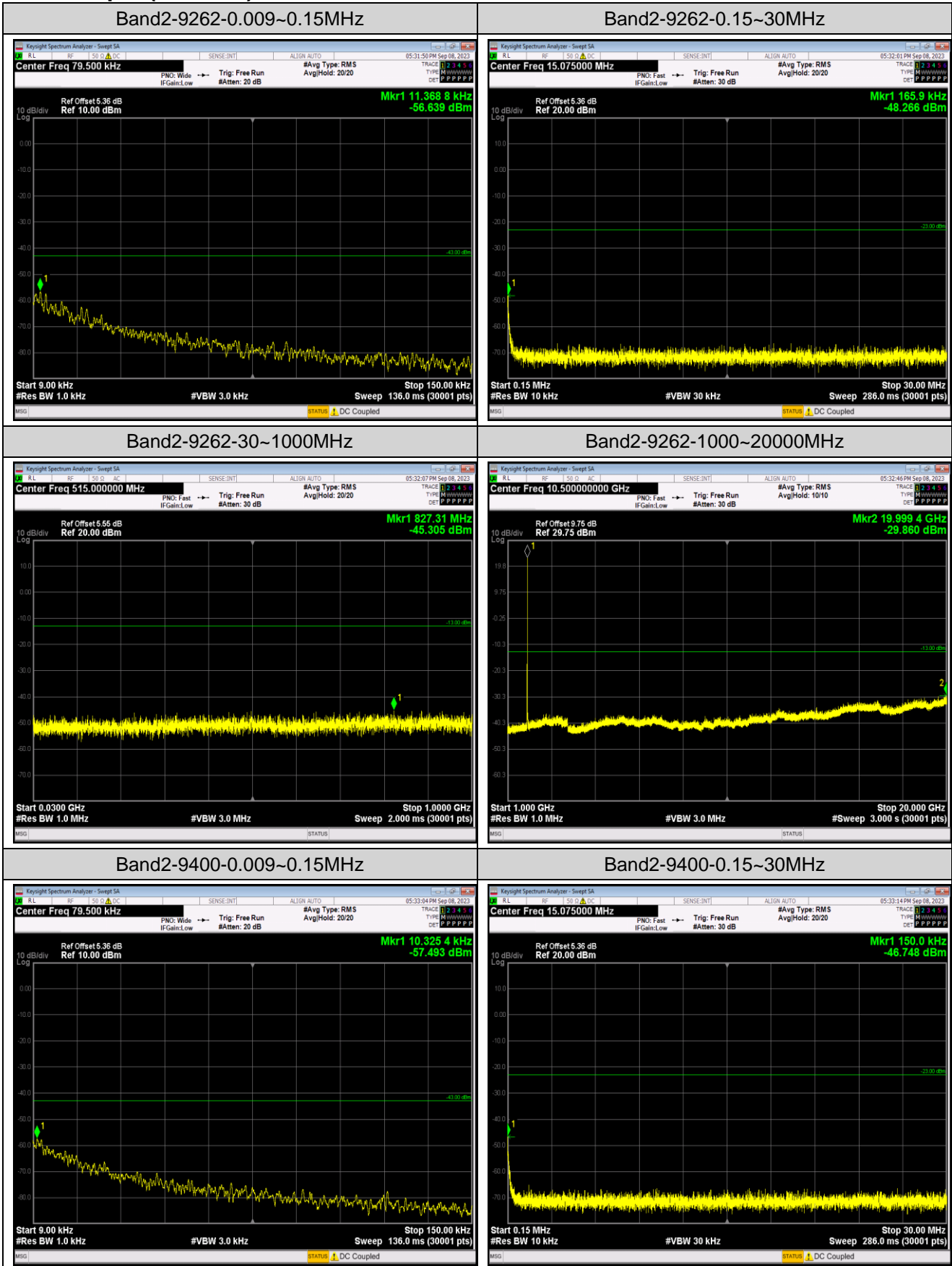


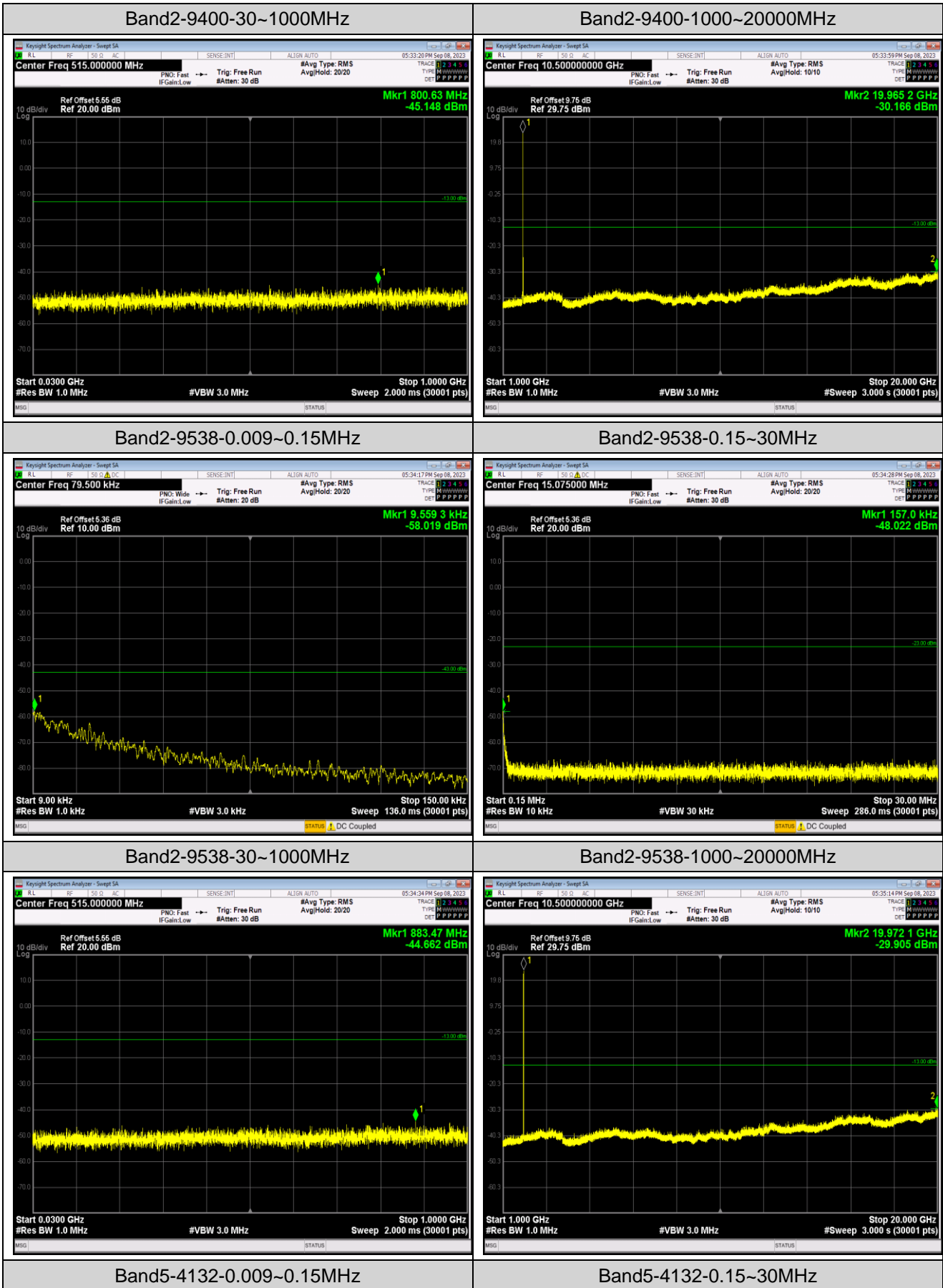
Appendix E: Conducted Spurious Emission

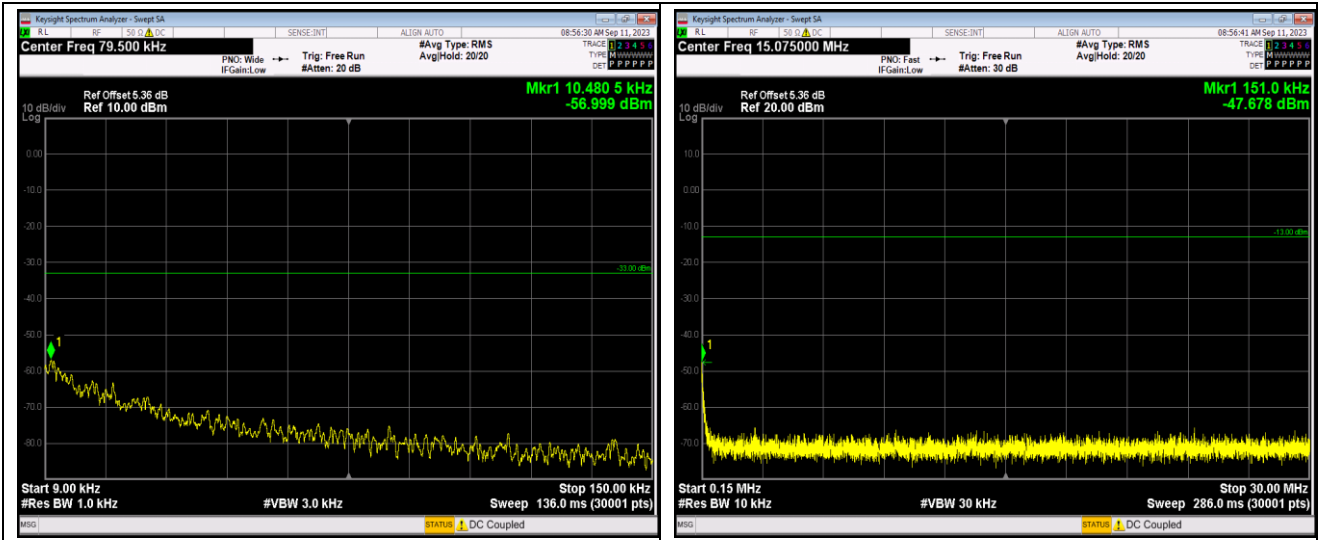
Test Result (WCDMA)

| Band | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262 | 0.009~0.15MHz | 0.01 | -56.64 | -43 | PASS |
| Band2 | 9262 | 0.15~30MHz | 0.17 | -48.27 | -23 | PASS |
| Band2 | 9262 | 30~1000MHz | 827.31 | -45.31 | -13 | PASS |
| Band2 | 9262 | 1000~20000MHz | 19999.37 | -29.86 | -13 | PASS |
| Band2 | 9400 | 0.009~0.15MHz | 0.01 | -57.49 | -43 | PASS |
| Band2 | 9400 | 0.15~30MHz | 0.15 | -46.75 | -23 | PASS |
| Band2 | 9400 | 30~1000MHz | 800.63 | -45.15 | -13 | PASS |
| Band2 | 9400 | 1000~20000MHz | 19965.17 | -30.17 | -13 | PASS |
| Band2 | 9538 | 0.009~0.15MHz | 0.01 | -58.02 | -43 | PASS |
| Band2 | 9538 | 0.15~30MHz | 0.16 | -48.02 | -23 | PASS |
| Band2 | 9538 | 30~1000MHz | 883.47 | -44.66 | -13 | PASS |
| Band2 | 9538 | 1000~20000MHz | 19972.13 | -29.91 | -13 | PASS |
| Band5 | 4132 | 0.009~0.15MHz | 0.01 | -57 | -33 | PASS |
| Band5 | 4132 | 0.15~30MHz | 0.15 | -47.68 | -13 | PASS |
| Band5 | 4132 | 30~1000MHz | 951.37 | -55.37 | -13 | PASS |
| Band5 | 4132 | 1000~10000MHz | 6027.1 | -35.66 | -13 | PASS |
| Band5 | 4183 | 0.009~0.15MHz | 0.01 | -58.01 | -33 | PASS |
| Band5 | 4183 | 0.15~30MHz | 0.16 | -49.39 | -13 | PASS |
| Band5 | 4183 | 30~1000MHz | 944.06 | -55.21 | -13 | PASS |
| Band5 | 4183 | 1000~10000MHz | 6257.8 | -35.8 | -13 | PASS |
| Band5 | 4233 | 0.009~0.15MHz | 0.01 | -55.79 | -33 | PASS |
| Band5 | 4233 | 0.15~30MHz | 0.16 | -49.24 | -13 | PASS |
| Band5 | 4233 | 30~1000MHz | 699.66 | -54.27 | -13 | PASS |
| Band5 | 4233 | 1000~10000MHz | 6083.8 | -36.07 | -13 | PASS |

Test Graphs(WCDMA)

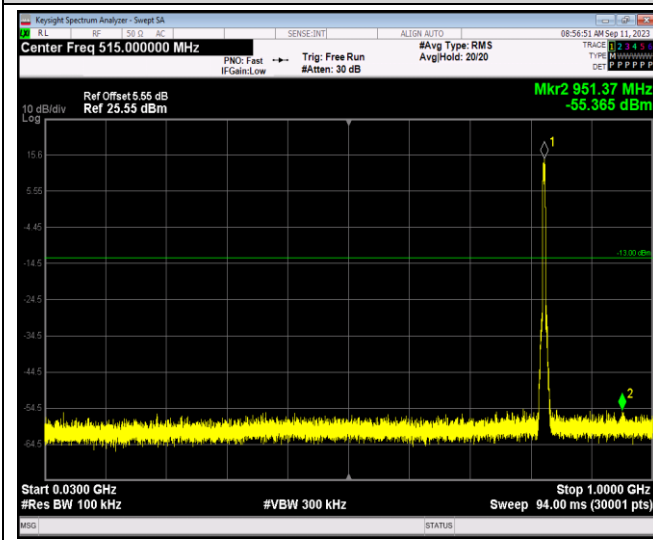




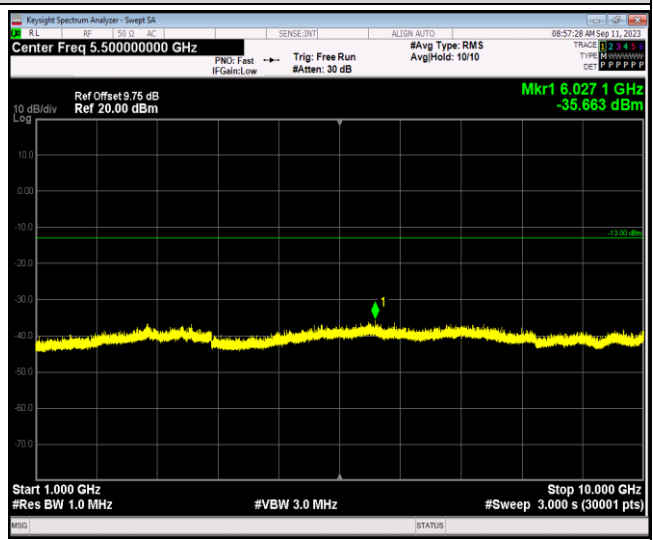


Band5-4132-30~1000MHz

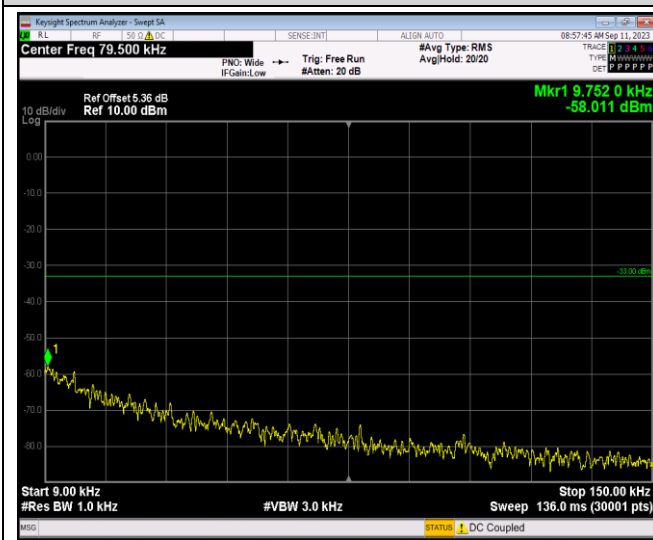
Band5-4132-1000~10000MHz



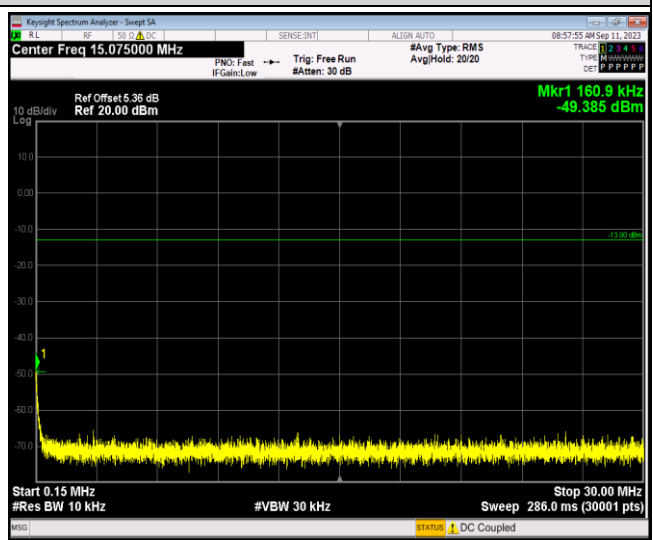
Band5-4183-0.009~0.15MHz



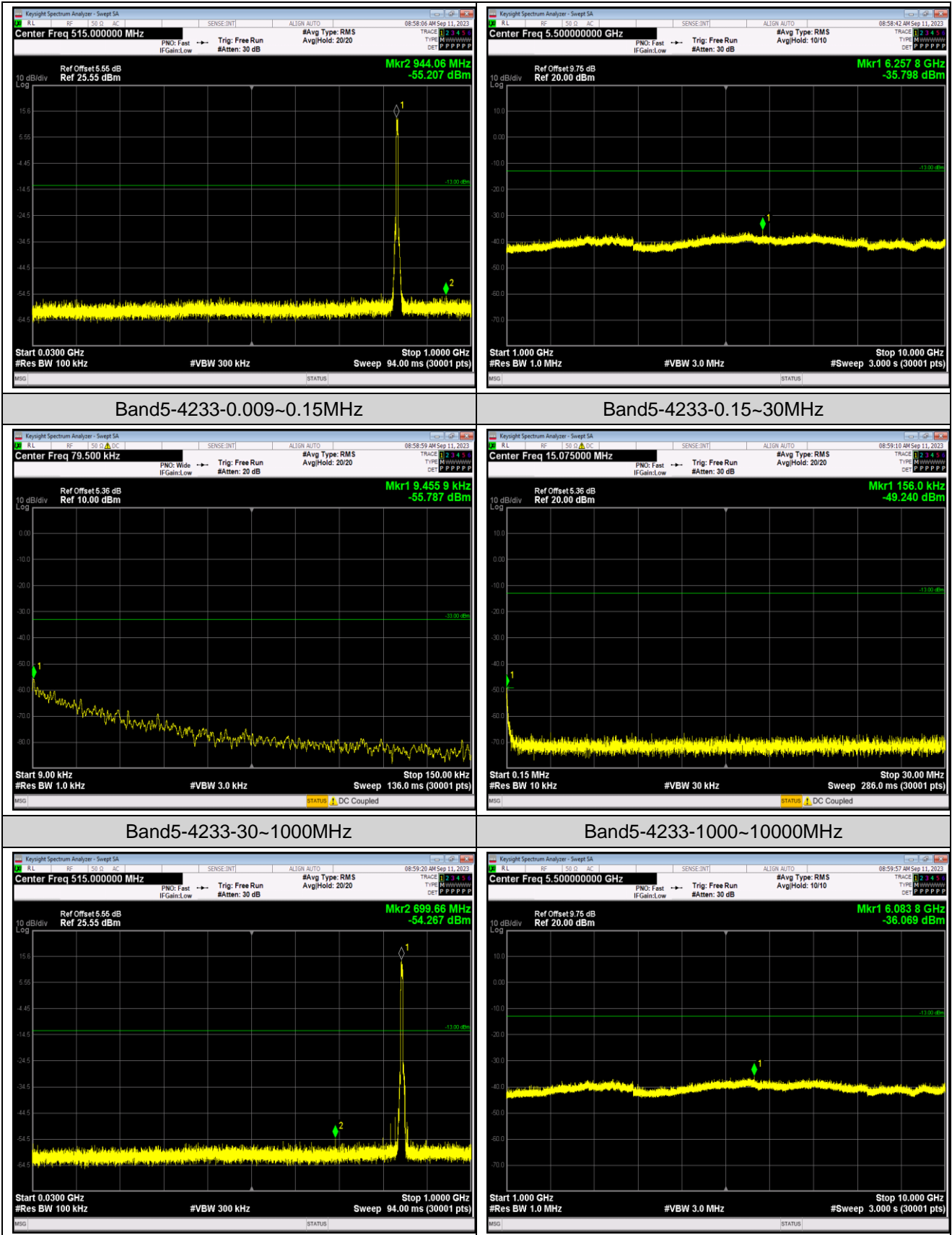
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~10000MHz



Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz

Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz

AppendixF:Frequency Stability

Test Result

| Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz | | | | | |
|---|----------------------|-----------------|-----------|-------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 3.80 | -30 | -10.96 | -0.013101 | ±2.5 | Pass |
| | -20 | -9.63 | -0.011511 | | |
| | -10 | -9.14 | -0.010925 | | |
| | 0 | -10.01 | -0.011965 | | |
| | 10 | -8.40 | -0.010041 | | |
| | 20 | -8.24 | -0.009849 | | |
| | 30 | -8.25 | -0.009861 | | |
| | 40 | -12.99 | -0.015527 | | |
| | 50 | -10.81 | -0.012921 | | |
| Voltage | | | | | |
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 25 | 3.50 | -9.13 | -0.010913 | ±2.5 | Pass |
| | 3.80 | -11.92 | -0.014248 | | |
| | 4.40 | -12.82 | -0.015324 | | |
| Remark: All channel had been tested, but only the worst case data displayed in this report. | | | | | |

| Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz | | | | | |
|---|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature | | | | | |
| Power supplied (Vdc) | Temperature (°C) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 3.80 | -30 | -10.39 | -0.005527 | Within authorized band for BAND II | Pass |
| | -20 | -11.46 | -0.006096 | | |
| | -10 | -11.82 | -0.006287 | | |
| | 0 | -15.13 | -0.008048 | | |
| | 10 | -10.29 | -0.005473 | | |
| | 20 | -12.37 | -0.006580 | | |
| | 30 | -12.86 | -0.006840 | | |
| | 40 | -13.44 | -0.007149 | | |
| | 50 | -6.64 | -0.003532 | | |
| Voltage | | | | | |
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 25 | 3.50 | -14.73 | -0.007835 | Within authorized band for BAND II | Pass |
| | 3.80 | -13.43 | -0.007144 | | |
| | 4.40 | -10.92 | -0.005809 | | |
| Remark: All channel had been tested, but only the worst case data displayed in this report. | | | | | |

Appendix G: Modulation Characteristics

Test Result

| Band | Channel | Result | Verdict |
|-------|---------|--------|---------|
| Band2 | 9400 | PASS | PASS |
| Band5 | 4183 | PASS | PASS |

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

