

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

| Band | Type | Channel | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|----------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | Voice | 9262 | 23.10 | 24.8 | 33.01 | PASS |
| Band2 | TestMode | 9262 | 23.07 | 24.77 | 33.01 | PASS |
| Band2 | Voice | 9400 | 23.15 | 24.85 | 33.01 | PASS |
| Band2 | TestMode | 9400 | 23.13 | 24.83 | 33.01 | PASS |
| Band2 | Voice | 9538 | 23.16 | 24.86 | 33.01 | PASS |
| Band2 | TestMode | 9538 | 23.17 | 24.87 | 33.01 | PASS |
| Band5 | Voice | 4132 | 23.11 | 18.06 | 38.45 | PASS |
| Band5 | TestMode | 4132 | 23.07 | 18.02 | 38.45 | PASS |
| Band5 | Voice | 4183 | 23.23 | 18.18 | 38.45 | PASS |
| Band5 | TestMode | 4183 | 23.22 | 18.17 | 38.45 | PASS |
| Band5 | Voice | 4233 | 23.13 | 18.08 | 38.45 | PASS |
| Band5 | TestMode | 4233 | 23.13 | 18.08 | 38.45 | PASS |

Test Result(HSDPA)

| Band | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262 | 1 | 22.32 | 24.02 | 33.01 | PASS |
| Band2 | 9262 | 2 | 22.05 | 23.75 | 33.01 | PASS |
| Band2 | 9262 | 3 | 21.87 | 23.57 | 33.01 | PASS |
| Band2 | 9262 | 4 | 21.87 | 23.57 | 33.01 | PASS |
| Band2 | 9400 | 1 | 22.07 | 23.77 | 33.01 | PASS |
| Band2 | 9400 | 2 | 21.80 | 23.5 | 33.01 | PASS |
| Band2 | 9400 | 3 | 21.60 | 23.3 | 33.01 | PASS |
| Band2 | 9400 | 4 | 21.61 | 23.31 | 33.01 | PASS |
| Band2 | 9538 | 1 | 21.79 | 23.49 | 33.01 | PASS |
| Band2 | 9538 | 2 | 21.44 | 23.14 | 33.01 | PASS |
| Band2 | 9538 | 3 | 21.23 | 22.93 | 33.01 | PASS |
| Band2 | 9538 | 4 | 21.24 | 22.94 | 33.01 | PASS |
| Band5 | 4132 | 1 | 21.88 | 16.83 | 38.5 | PASS |
| Band5 | 4132 | 2 | 21.67 | 16.62 | 38.5 | PASS |
| Band5 | 4132 | 3 | 21.25 | 16.2 | 38.5 | PASS |
| Band5 | 4132 | 4 | 21.25 | 16.2 | 38.5 | PASS |
| Band5 | 4183 | 1 | 22.08 | 17.03 | 38.5 | PASS |
| Band5 | 4183 | 2 | 21.88 | 16.83 | 38.5 | PASS |

| | | | | | | |
|-------|------|---|-------|-------|------|------|
| Band5 | 4183 | 3 | 21.47 | 16.42 | 38.5 | PASS |
| Band5 | 4183 | 4 | 21.55 | 16.5 | 38.5 | PASS |
| Band5 | 4233 | 1 | 22.28 | 17.23 | 38.5 | PASS |
| Band5 | 4233 | 2 | 22.11 | 17.06 | 38.5 | PASS |
| Band5 | 4233 | 3 | 21.72 | 16.67 | 38.5 | PASS |
| Band5 | 4233 | 4 | 21.76 | 16.71 | 38.5 | PASS |

Test Result(HSUPA)

| Band | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262 | 1 | 19.96 | 21.66 | 33.01 | PASS |
| Band2 | 9262 | 2 | 20.54 | 22.24 | 33.01 | PASS |
| Band2 | 9262 | 3 | 20.34 | 22.04 | 33.01 | PASS |
| Band2 | 9262 | 4 | 20.61 | 22.31 | 33.01 | PASS |
| Band2 | 9262 | 5 | 22.48 | 24.18 | 33.01 | PASS |
| Band2 | 9400 | 1 | 19.43 | 21.13 | 33.01 | PASS |
| Band2 | 9400 | 2 | 20.24 | 21.94 | 33.01 | PASS |
| Band2 | 9400 | 3 | 19.80 | 21.5 | 33.01 | PASS |
| Band2 | 9400 | 4 | 20.31 | 22.01 | 33.01 | PASS |
| Band2 | 9400 | 5 | 22.16 | 23.86 | 33.01 | PASS |
| Band2 | 9538 | 1 | 19.10 | 20.8 | 33.01 | PASS |
| Band2 | 9538 | 2 | 19.89 | 21.59 | 33.01 | PASS |
| Band2 | 9538 | 3 | 19.46 | 21.16 | 33.01 | PASS |
| Band2 | 9538 | 4 | 19.97 | 21.67 | 33.01 | PASS |
| Band2 | 9538 | 5 | 21.81 | 23.51 | 33.01 | PASS |
| Band5 | 4132 | 1 | 20.33 | 15.28 | 38.5 | PASS |
| Band5 | 4132 | 2 | 20.47 | 15.42 | 38.5 | PASS |
| Band5 | 4132 | 3 | 20.41 | 15.36 | 38.5 | PASS |
| Band5 | 4132 | 4 | 20.31 | 15.26 | 38.5 | PASS |
| Band5 | 4132 | 5 | 21.76 | 16.71 | 38.5 | PASS |
| Band5 | 4183 | 1 | 20.28 | 15.23 | 38.5 | PASS |
| Band5 | 4183 | 2 | 20.82 | 15.77 | 38.5 | PASS |
| Band5 | 4183 | 3 | 20.42 | 15.37 | 38.5 | PASS |
| Band5 | 4183 | 4 | 20.56 | 15.51 | 38.5 | PASS |
| Band5 | 4183 | 5 | 22.00 | 16.95 | 38.5 | PASS |
| Band5 | 4233 | 1 | 20.67 | 15.62 | 38.5 | PASS |
| Band5 | 4233 | 2 | 20.76 | 15.71 | 38.5 | PASS |
| Band5 | 4233 | 3 | 20.45 | 15.4 | 38.5 | PASS |
| Band5 | 4233 | 4 | 20.55 | 15.5 | 38.5 | PASS |
| Band5 | 4233 | 5 | 22.22 | 17.17 | 38.5 | PASS |

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For Band2)

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

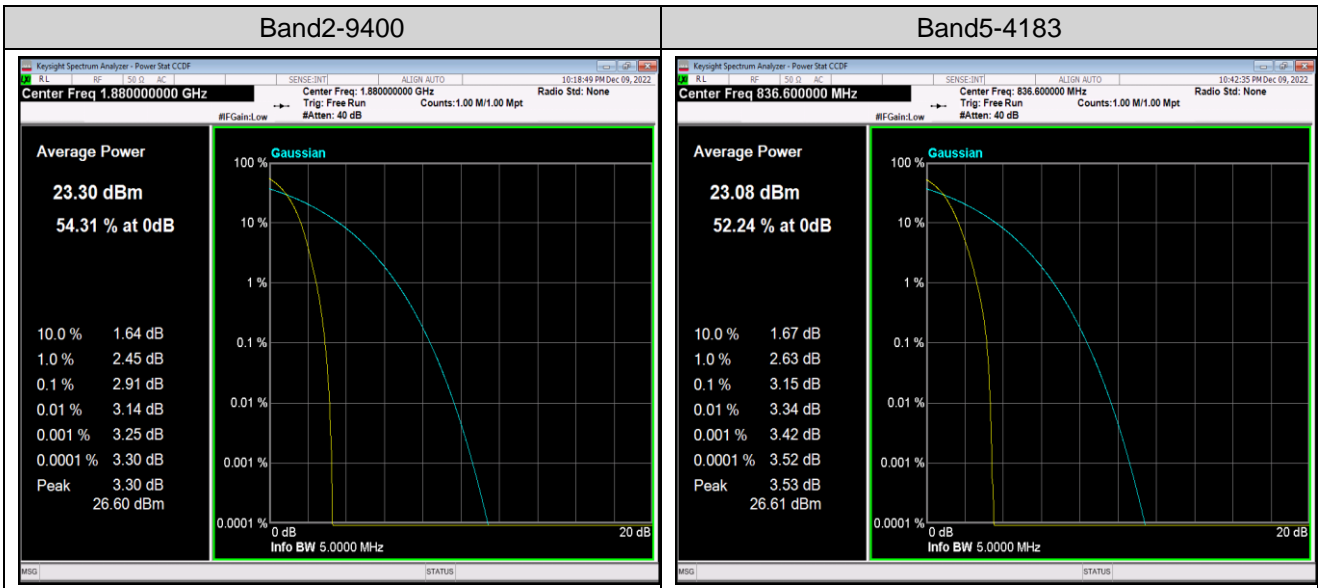
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400 | 2.91 | 13 | PASS |
| Band5 | 4183 | 3.15 | 13 | PASS |

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

Test Graphs(WCDMA)

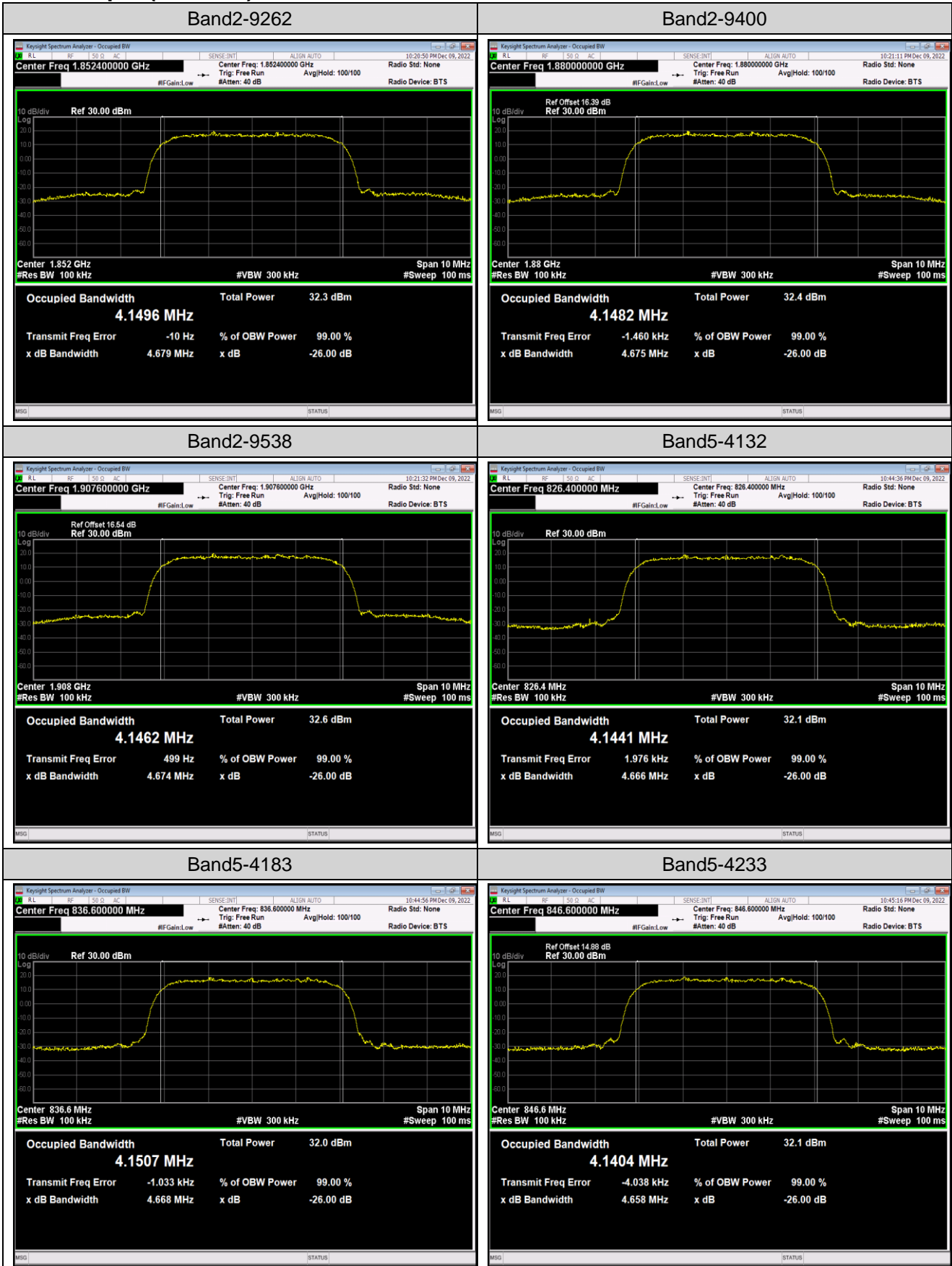


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262 | 4.1496 | 4.679 | --- | PASS |
| Band2 | 9400 | 4.1482 | 4.675 | --- | PASS |
| Band2 | 9538 | 4.1462 | 4.674 | --- | PASS |
| Band5 | 4132 | 4.1441 | 4.666 | --- | PASS |
| Band5 | 4183 | 4.1507 | 4.668 | --- | PASS |
| Band5 | 4233 | 4.1404 | 4.658 | --- | PASS |

Test Graphs(WCDMA)

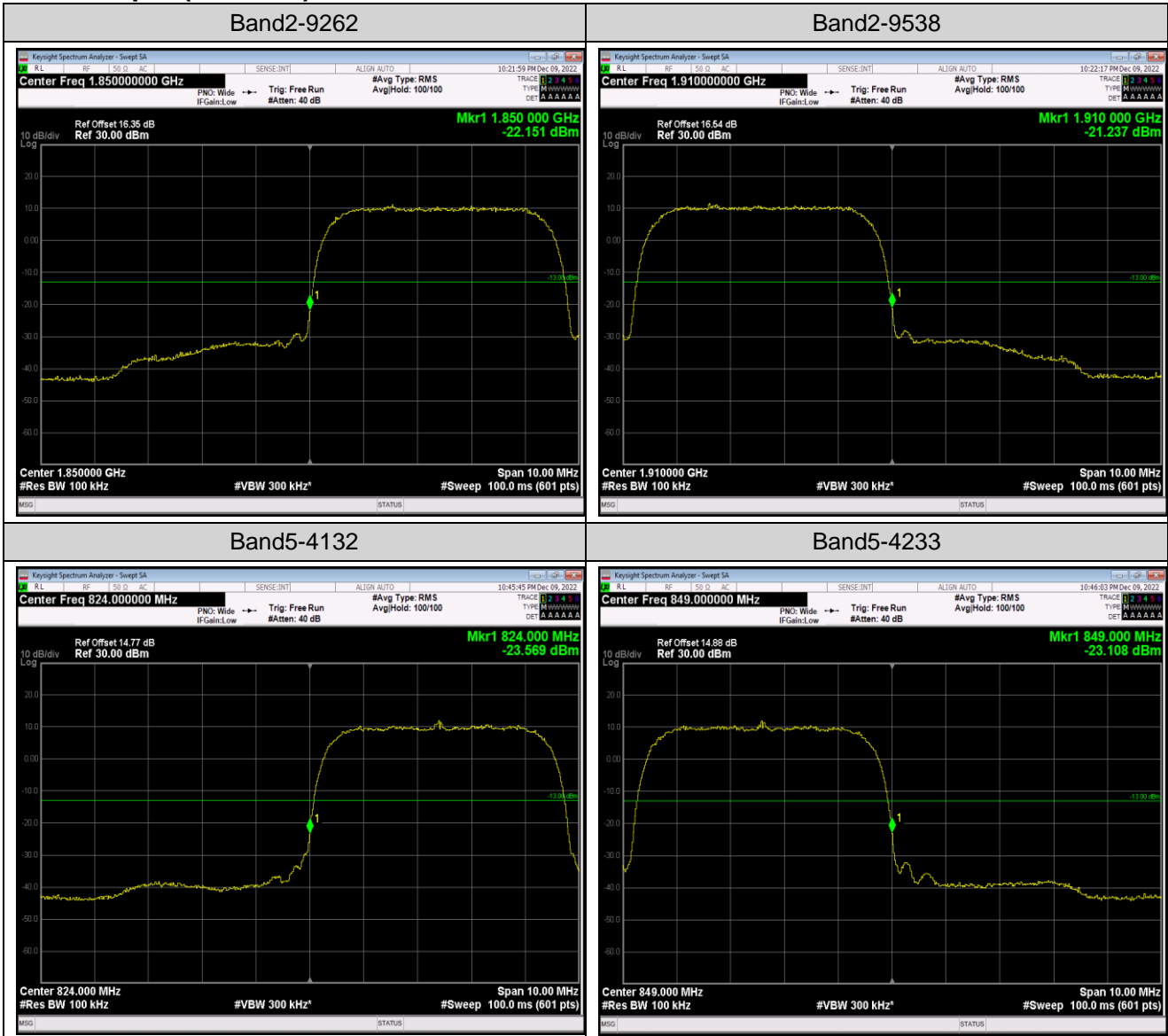


AppendixD:Band Edge

Test Result(WCDMA)

| Band | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262 | 1850.00 | -22.15 | -13 | PASS |
| Band2 | 9538 | 1910.00 | -21.24 | -13 | PASS |
| Band5 | 4132 | 824.00 | -23.57 | -13 | PASS |
| Band5 | 4233 | 849.00 | -23.11 | -13 | PASS |

Test Graphs(WCDMA)

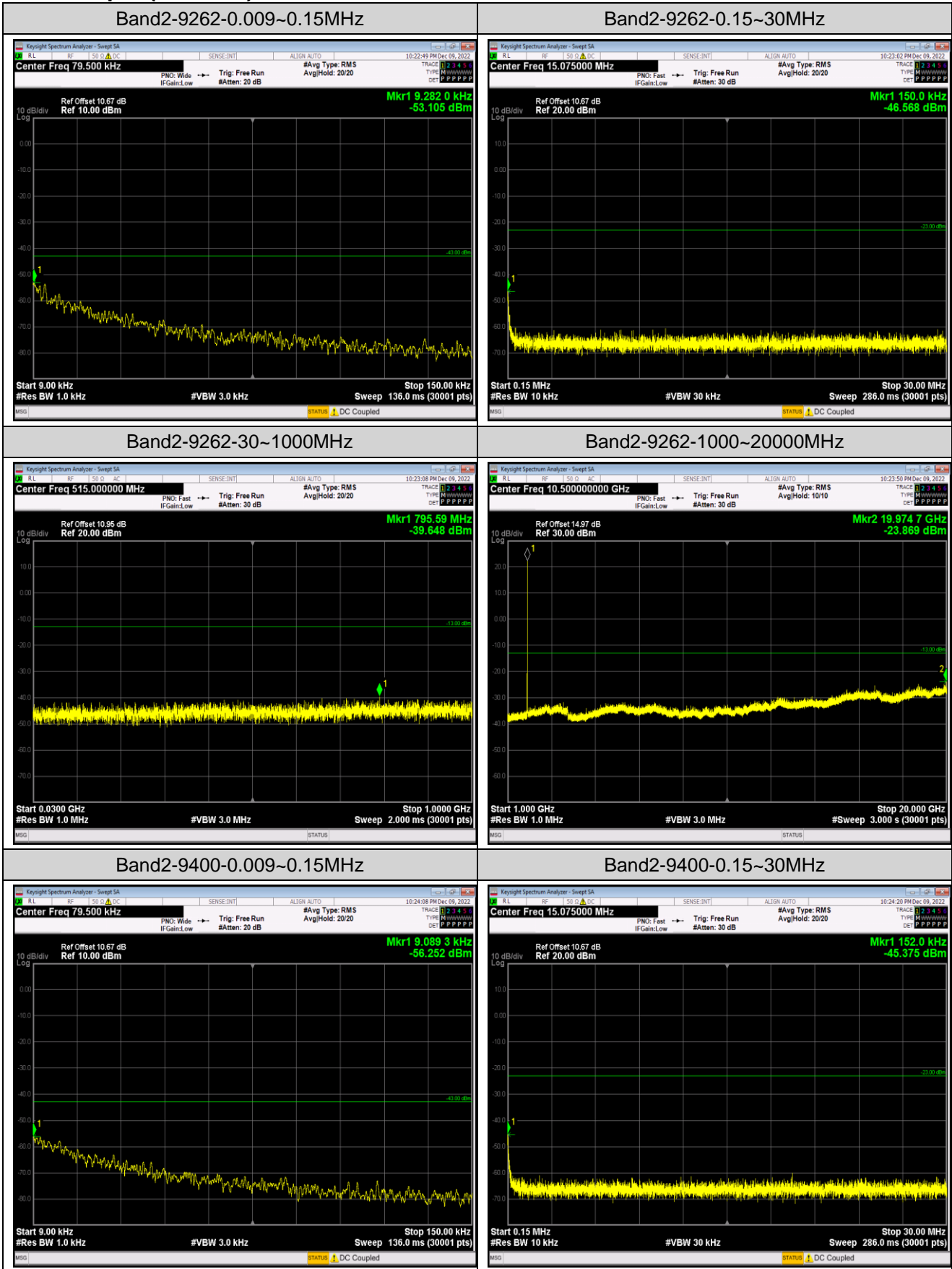


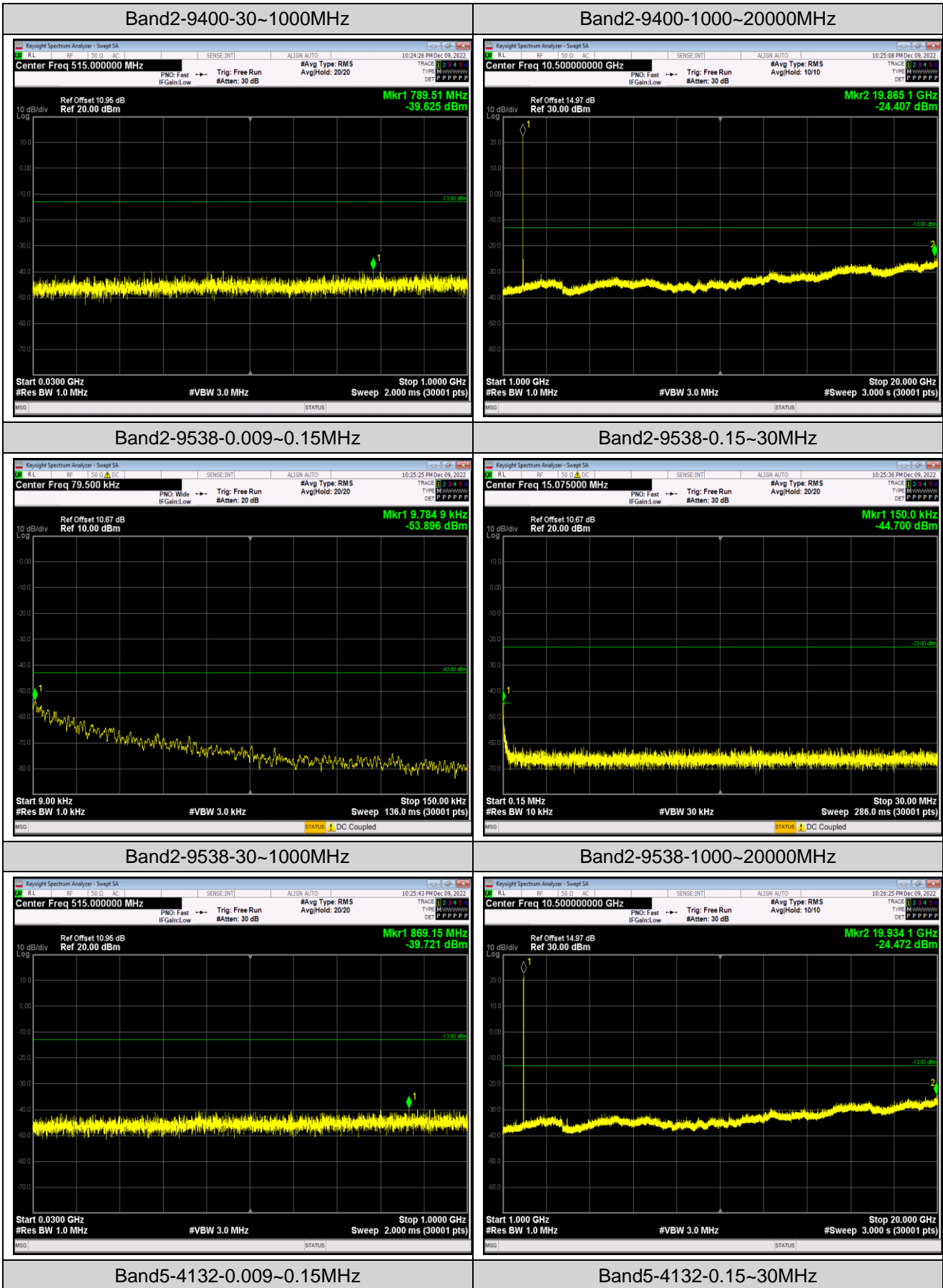
Appendix E: Conducted Spurious Emission

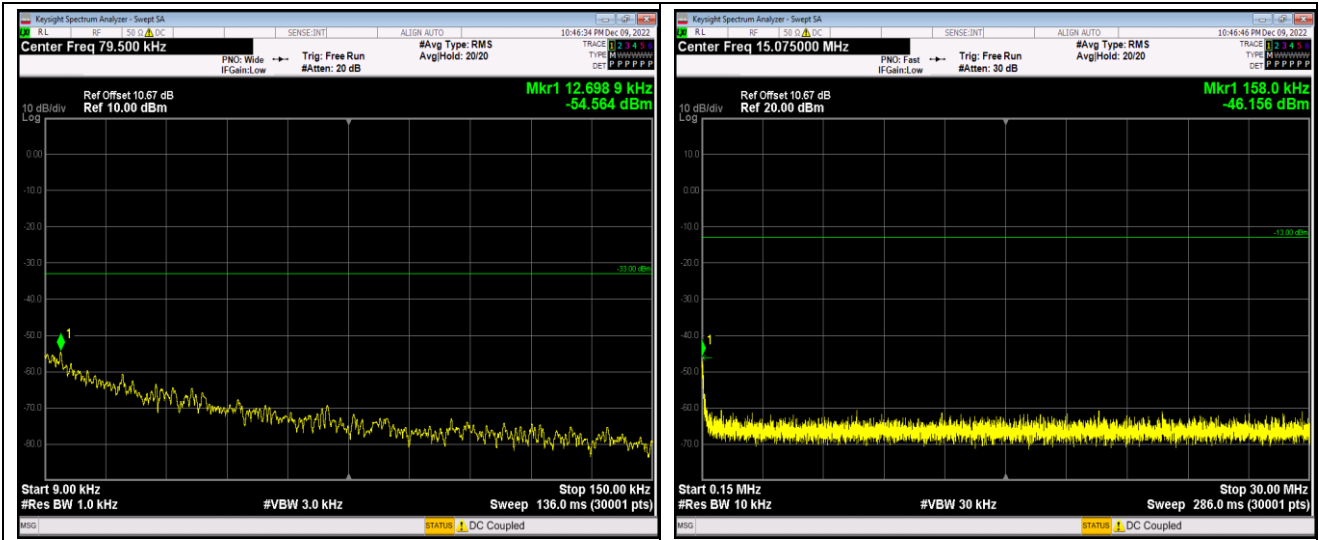
Test Result (WCDMA)

| Band | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262 | 0.009~0.15MHz | 0.01 | -53.11 | -43 | PASS |
| Band2 | 9262 | 0.15~30MHz | 0.15 | -46.57 | -23 | PASS |
| Band2 | 9262 | 30~1000MHz | 795.59 | -39.65 | -13 | PASS |
| Band2 | 9262 | 1000~20000MHz | 19974.67 | -23.87 | -13 | PASS |
| Band2 | 9400 | 0.009~0.15MHz | 0.01 | -56.25 | -43 | PASS |
| Band2 | 9400 | 0.15~30MHz | 0.15 | -45.38 | -23 | PASS |
| Band2 | 9400 | 30~1000MHz | 789.51 | -39.63 | -13 | PASS |
| Band2 | 9400 | 1000~20000MHz | 19865.1 | -24.41 | -13 | PASS |
| Band2 | 9538 | 0.009~0.15MHz | 0.01 | -53.9 | -43 | PASS |
| Band2 | 9538 | 0.15~30MHz | 0.15 | -44.7 | -23 | PASS |
| Band2 | 9538 | 30~1000MHz | 869.15 | -39.72 | -13 | PASS |
| Band2 | 9538 | 1000~20000MHz | 19934.13 | -24.47 | -13 | PASS |
| Band5 | 4132 | 0.009~0.15MHz | 0.01 | -54.56 | -33 | PASS |
| Band5 | 4132 | 0.15~30MHz | 0.16 | -46.16 | -13 | PASS |
| Band5 | 4132 | 30~1000MHz | 456.44 | -49.06 | -13 | PASS |
| Band5 | 4132 | 1000~10000MHz | 4137.1 | -27.56 | -13 | PASS |
| Band5 | 4183 | 0.009~0.15MHz | 0.01 | -55.84 | -33 | PASS |
| Band5 | 4183 | 0.15~30MHz | 0.15 | -45.27 | -13 | PASS |
| Band5 | 4183 | 30~1000MHz | 990.27 | -48.94 | -13 | PASS |
| Band5 | 4183 | 1000~10000MHz | 4187.5 | -26.79 | -13 | PASS |
| Band5 | 4233 | 0.009~0.15MHz | 0.01 | -53.62 | -33 | PASS |
| Band5 | 4233 | 0.15~30MHz | 0.15 | -46.65 | -13 | PASS |
| Band5 | 4233 | 30~1000MHz | 997.12 | -48.35 | -13 | PASS |
| Band5 | 4233 | 1000~10000MHz | 4228 | -27.12 | -13 | PASS |

Test Graphs(WCDMA)

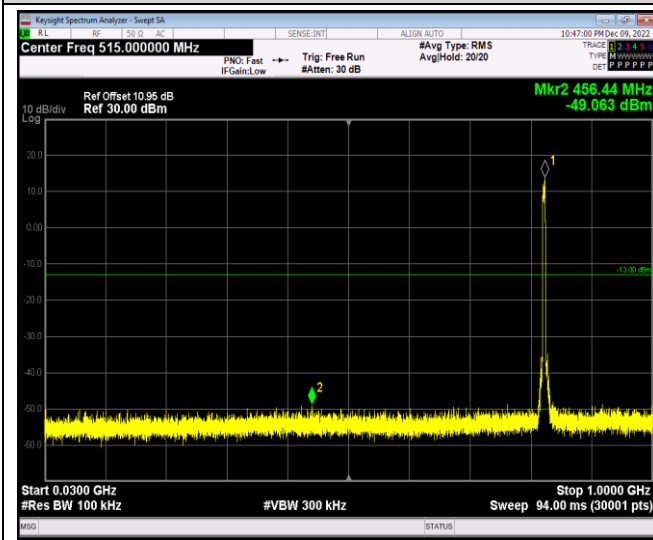




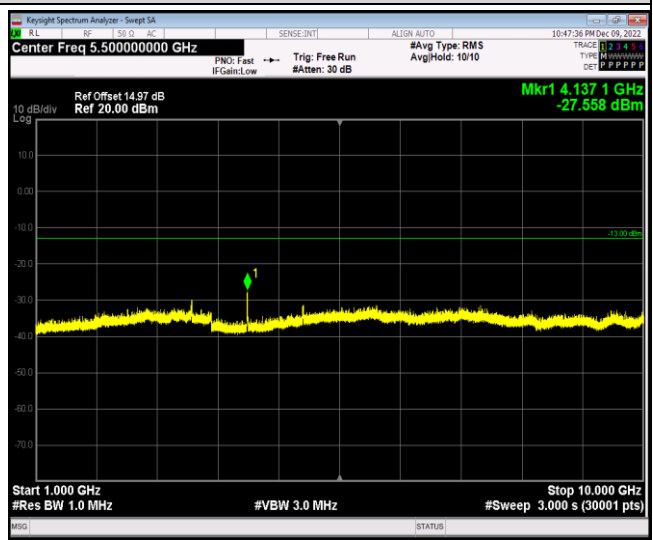


Band5-4132-30~1000MHz

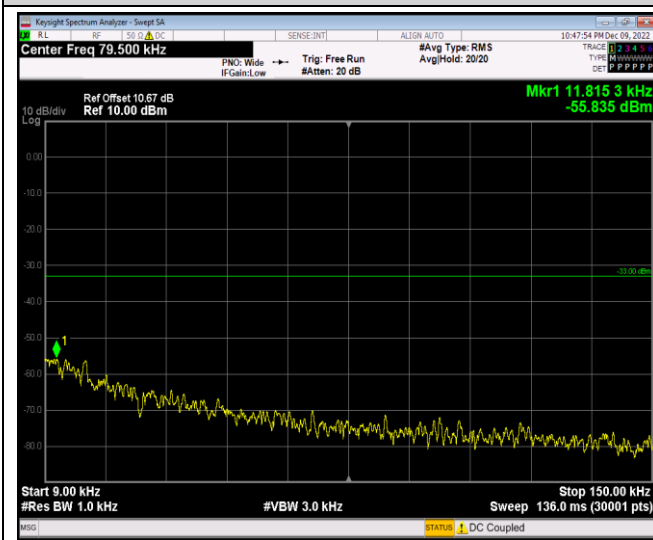
Band5-4132-1000~10000MHz



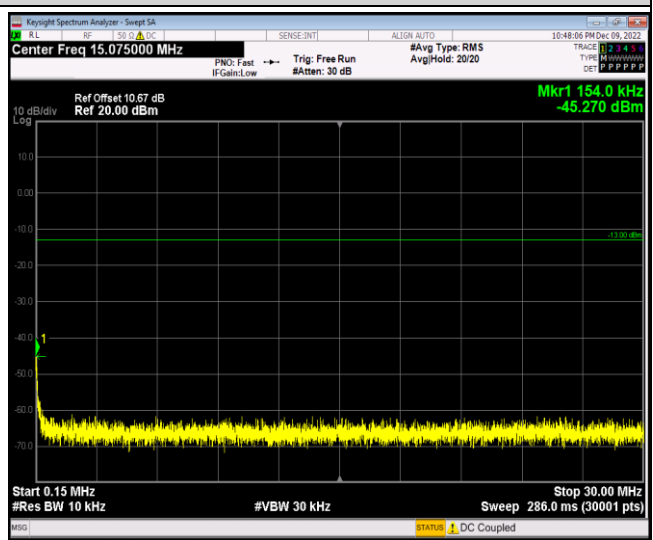
Band5-4183-0.009~0.15MHz



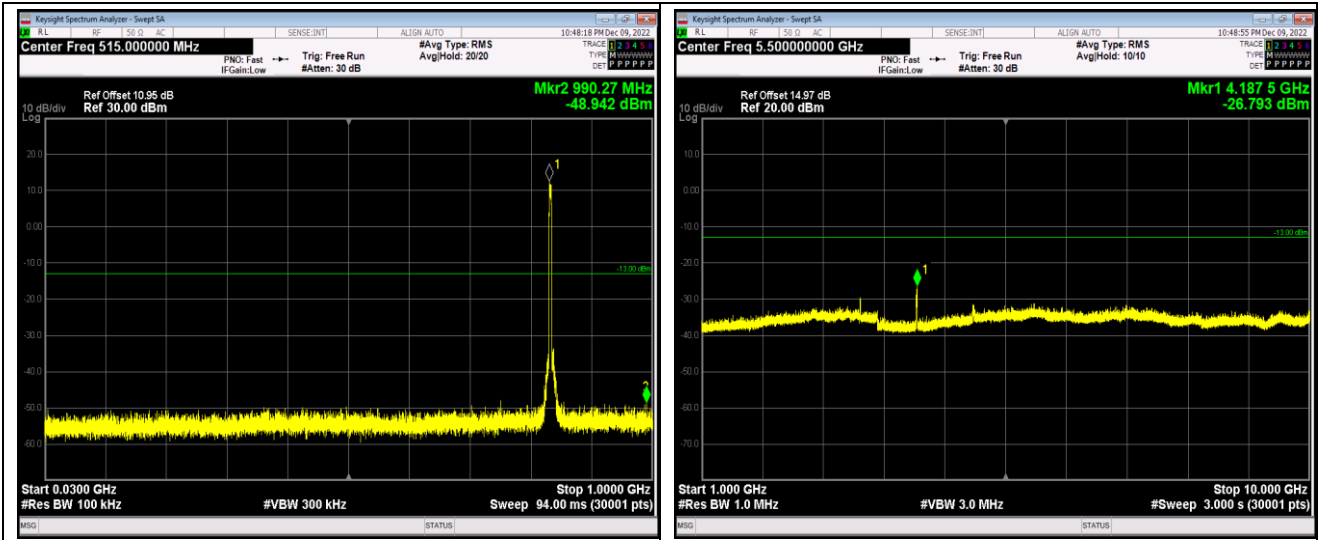
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz

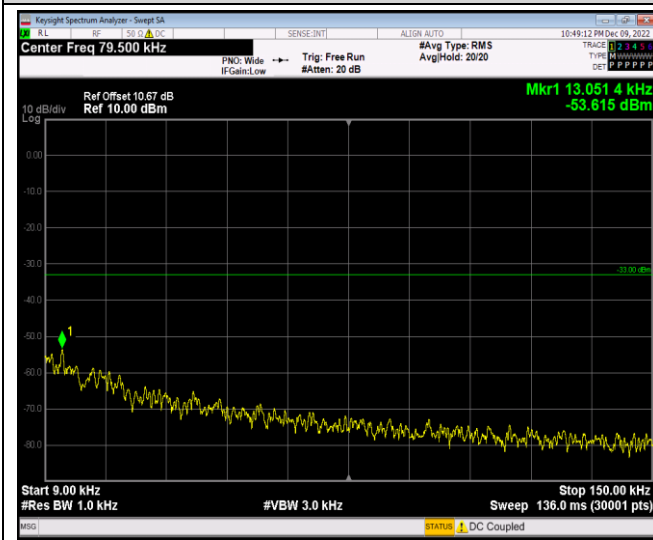


Band5-4183-1000~10000MHz

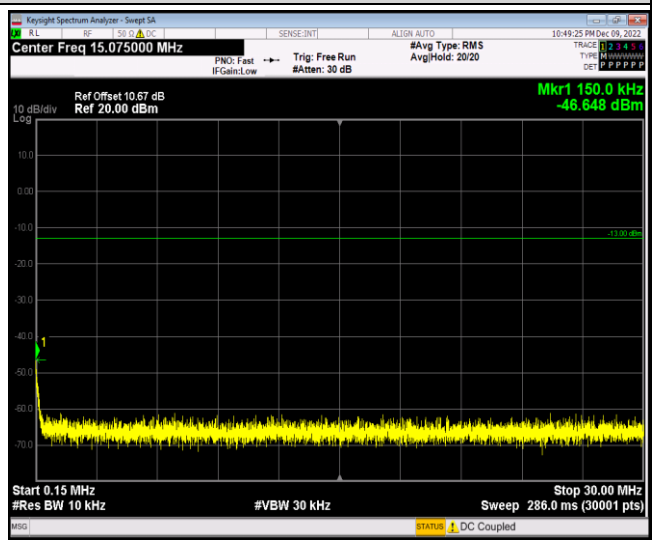


Band5-4233-0.009~0.15MHz

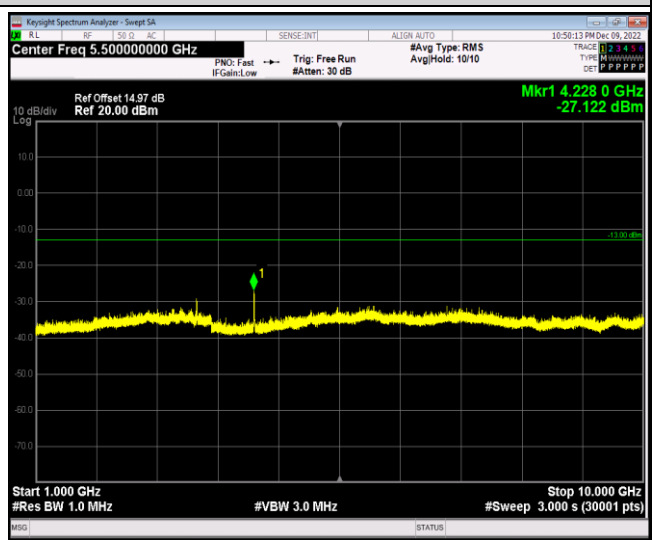
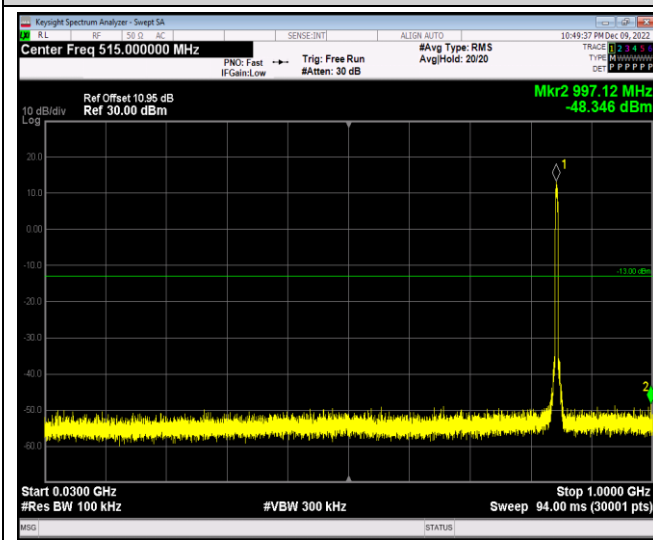
Band5-4233-0.15~30MHz



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 | | |
| 3.70 | -30 | 1.66 | 0.001984 | Within authorized band for BAND V | Pass |
| | -20 | 1.47 | 0.001757 | | |
| | -10 | 0.84 | 0.001004 | | |
| | 0 | 1.82 | 0.002175 | | |
| | 10 | -0.51 | -0.000610 | | |
| | 20 | 0.53 | 0.000634 | | |
| | 30 | 1.56 | 0.001865 | | |
| | 40 | -1.54 | -0.001841 | | |
| | 50 | -1.10 | -0.001315 | | |
| Voltage | | | | | |
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 25 | 3.50 | 1.49 | 0.001781 | Within authorized band for BAND V | Pass |
| | 3.70 | 0.35 | 0.000418 | | |
| | 4.20 | 1.03 | 0.001231 | | |
| 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 | | |
| 3.70 | -30 | 3.18 | 0.001691 | Within authorized band for BAND II | Pass |
| | -20 | 4.08 | 0.002170 | | |
| | -10 | -2.27 | -0.001207 | | |
| | 0 | 1.06 | 0.000564 | | |
| | 10 | -2.56 | -0.001362 | | |
| | 20 | -0.27 | -0.000144 | | |
| | 30 | 0.82 | 0.000436 | | |
| | 40 | -5.24 | -0.002787 | | |
| | 50 | 3.68 | 0.001957 | | |
| Voltage | | | | | |
| Temperature (°C) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| 25 | 3.50 | -2.62 | -0.001394 | Within authorized band for BAND II | Pass |
| | 3.70 | 2.90 | 0.001543 | | |
| | 4.20 | -2.17 | -0.001154 | | |
| 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

