

## 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    | 22.85                 | 21.65          | 33.01                | PASS    |
| Band2 | TestMode | 9262    | 22.89                 | 21.69          | 33.01                | PASS    |
| Band2 | TestMode | 9400    | 23.18                 | 21.98          | 33.01                | PASS    |
| Band2 | Voice    | 9400    | 23.16                 | 21.96          | 33.01                | PASS    |
| Band2 | TestMode | 9538    | 23.21                 | 22.01          | 33.01                | PASS    |
| Band2 | Voice    | 9538    | 23.08                 | 21.88          | 33.01                | PASS    |
| Band4 | Voice    | 1312    | 22.62                 | 21.77          | 30.00                | PASS    |
| Band4 | TestMode | 1312    | 22.71                 | 21.86          | 30.00                | PASS    |
| Band4 | Voice    | 1413    | 22.52                 | 21.67          | 30.00                | PASS    |
| Band4 | TestMode | 1413    | 22.60                 | 21.75          | 30.00                | PASS    |
| Band4 | TestMode | 1513    | 22.70                 | 21.85          | 30.00                | PASS    |
| Band4 | Voice    | 1513    | 22.59                 | 21.74          | 30.00                | PASS    |
| Band5 | Voice    | 4132    | 23.05                 | 19.34          | 38.45                | PASS    |
| Band5 | TestMode | 4132    | 23.04                 | 19.33          | 38.45                | PASS    |
| Band5 | TestMode | 4183    | 23.32                 | 19.61          | 38.45                | PASS    |
| Band5 | Voice    | 4183    | 23.30                 | 19.59          | 38.45                | PASS    |
| Band5 | Voice    | 4233    | 23.47                 | 19.76          | 38.45                | PASS    |
| Band5 | TestMode | 4233    | 23.47                 | 19.76          | 38.45                | PASS    |

### Test Result(HSDPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 22.23                 | 21.03          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 22.08                 | 20.88          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 20.68                 | 19.48          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 20.79                 | 19.59          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 22.46                 | 21.26          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 22.36                 | 21.16          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 20.93                 | 19.73          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 21.01                 | 19.81          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 22.53                 | 21.33          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 22.37                 | 21.17          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 21.18                 | 19.98          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 21.20                 | 20             | 33.01                | PASS    |
| Band4 | 1312    | 1       | 20.08                 | 19.23          | 30.00                | PASS    |

|       |      |   |       |       |       |      |
|-------|------|---|-------|-------|-------|------|
| Band4 | 1312 | 2 | 20.36 | 19.51 | 30.00 | PASS |
| Band4 | 1312 | 3 | 20.36 | 19.51 | 30.00 | PASS |
| Band4 | 1312 | 4 | 20.42 | 19.57 | 30.00 | PASS |
| Band4 | 1413 | 1 | 20.81 | 19.96 | 30.00 | PASS |
| Band4 | 1413 | 2 | 21.00 | 20.15 | 30.00 | PASS |
| Band4 | 1413 | 3 | 21.00 | 20.15 | 30.00 | PASS |
| Band4 | 1413 | 4 | 21.06 | 20.21 | 30.00 | PASS |
| Band4 | 1513 | 1 | 20.62 | 19.77 | 30.00 | PASS |
| Band4 | 1513 | 2 | 20.78 | 19.93 | 30.00 | PASS |
| Band4 | 1513 | 3 | 20.77 | 19.92 | 30.00 | PASS |
| Band4 | 1513 | 4 | 20.83 | 19.98 | 30.00 | PASS |
| Band5 | 4132 | 1 | 23.34 | 19.63 | 38.5  | PASS |
| Band5 | 4132 | 2 | 22.58 | 18.87 | 38.5  | PASS |
| Band5 | 4132 | 3 | 21.1  | 17.39 | 38.5  | PASS |
| Band5 | 4132 | 4 | 21.08 | 17.37 | 38.5  | PASS |
| Band5 | 4183 | 1 | 23.35 | 19.64 | 38.5  | PASS |
| Band5 | 4183 | 2 | 22.58 | 18.87 | 38.5  | PASS |
| Band5 | 4183 | 3 | 21.19 | 17.48 | 38.5  | PASS |
| Band5 | 4183 | 4 | 21.21 | 17.5  | 38.5  | PASS |
| Band5 | 4233 | 1 | 23.12 | 19.41 | 38.5  | PASS |
| Band5 | 4233 | 2 | 22.34 | 18.63 | 38.5  | PASS |
| Band5 | 4233 | 3 | 20.95 | 17.24 | 38.5  | PASS |
| Band5 | 4233 | 4 | 20.97 | 17.26 | 38.5  | PASS |

## Test Result(HSUPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 18.87                 | 17.67          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 19.65                 | 18.45          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 19.39                 | 18.19          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 19.73                 | 18.53          | 33.01                | PASS    |
| Band2 | 9262    | 5       | 21.33                 | 20.13          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 19.32                 | 18.12          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 19.85                 | 18.65          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 19.59                 | 18.39          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 19.92                 | 18.72          | 33.01                | PASS    |
| Band2 | 9400    | 5       | 21.49                 | 20.29          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 19.52                 | 18.32          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 20.03                 | 18.83          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 19.77                 | 18.57          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 20.10                 | 18.9           | 33.01                | PASS    |

|       |      |   |       |       |       |      |
|-------|------|---|-------|-------|-------|------|
| Band2 | 9538 | 5 | 21.70 | 20.5  | 33.01 | PASS |
| Band4 | 1312 | 1 | 20.25 | 19.4  | 30.00 | PASS |
| Band4 | 1312 | 2 | 20.51 | 19.66 | 30.00 | PASS |
| Band4 | 1312 | 3 | 20.30 | 19.45 | 30.00 | PASS |
| Band4 | 1312 | 4 | 20.81 | 19.96 | 30.00 | PASS |
| Band4 | 1312 | 5 | 20.73 | 19.88 | 30.00 | PASS |
| Band4 | 1413 | 1 | 21.00 | 20.15 | 30.00 | PASS |
| Band4 | 1413 | 2 | 21.23 | 20.38 | 30.00 | PASS |
| Band4 | 1413 | 3 | 21.04 | 20.19 | 30.00 | PASS |
| Band4 | 1413 | 4 | 21.47 | 20.62 | 30.00 | PASS |
| Band4 | 1413 | 5 | 21.35 | 20.5  | 30.00 | PASS |
| Band4 | 1513 | 1 | 20.85 | 20    | 30.00 | PASS |
| Band4 | 1513 | 2 | 21.07 | 20.22 | 30.00 | PASS |
| Band4 | 1513 | 3 | 20.92 | 20.07 | 30.00 | PASS |
| Band4 | 1513 | 4 | 21.27 | 20.42 | 30.00 | PASS |
| Band4 | 1513 | 5 | 21.14 | 20.29 | 30.00 | PASS |
| Band5 | 4132 | 1 | 20.66 | 16.95 | 38.5  | PASS |
| Band5 | 4132 | 2 | 20.59 | 16.88 | 38.5  | PASS |
| Band5 | 4132 | 3 | 20.50 | 16.79 | 38.5  | PASS |
| Band5 | 4132 | 4 | 20.26 | 16.55 | 38.5  | PASS |
| Band5 | 4132 | 5 | 23.36 | 19.65 | 38.5  | PASS |
| Band5 | 4183 | 1 | 20.73 | 17.02 | 38.5  | PASS |
| Band5 | 4183 | 2 | 20.77 | 17.06 | 38.5  | PASS |
| Band5 | 4183 | 3 | 20.59 | 16.88 | 38.5  | PASS |
| Band5 | 4183 | 4 | 20.27 | 16.56 | 38.5  | PASS |
| Band5 | 4183 | 5 | 23.42 | 19.71 | 38.5  | PASS |
| Band5 | 4233 | 1 | 20.81 | 17.1  | 38.5  | PASS |
| Band5 | 4233 | 2 | 20.72 | 17.01 | 38.5  | PASS |
| Band5 | 4233 | 3 | 20.62 | 16.91 | 38.5  | PASS |
| Band5 | 4233 | 4 | 20.28 | 16.57 | 38.5  | PASS |
| Band5 | 4233 | 5 | 23.12 | 19.41 | 38.5  | PASS |

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2, 4)  
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

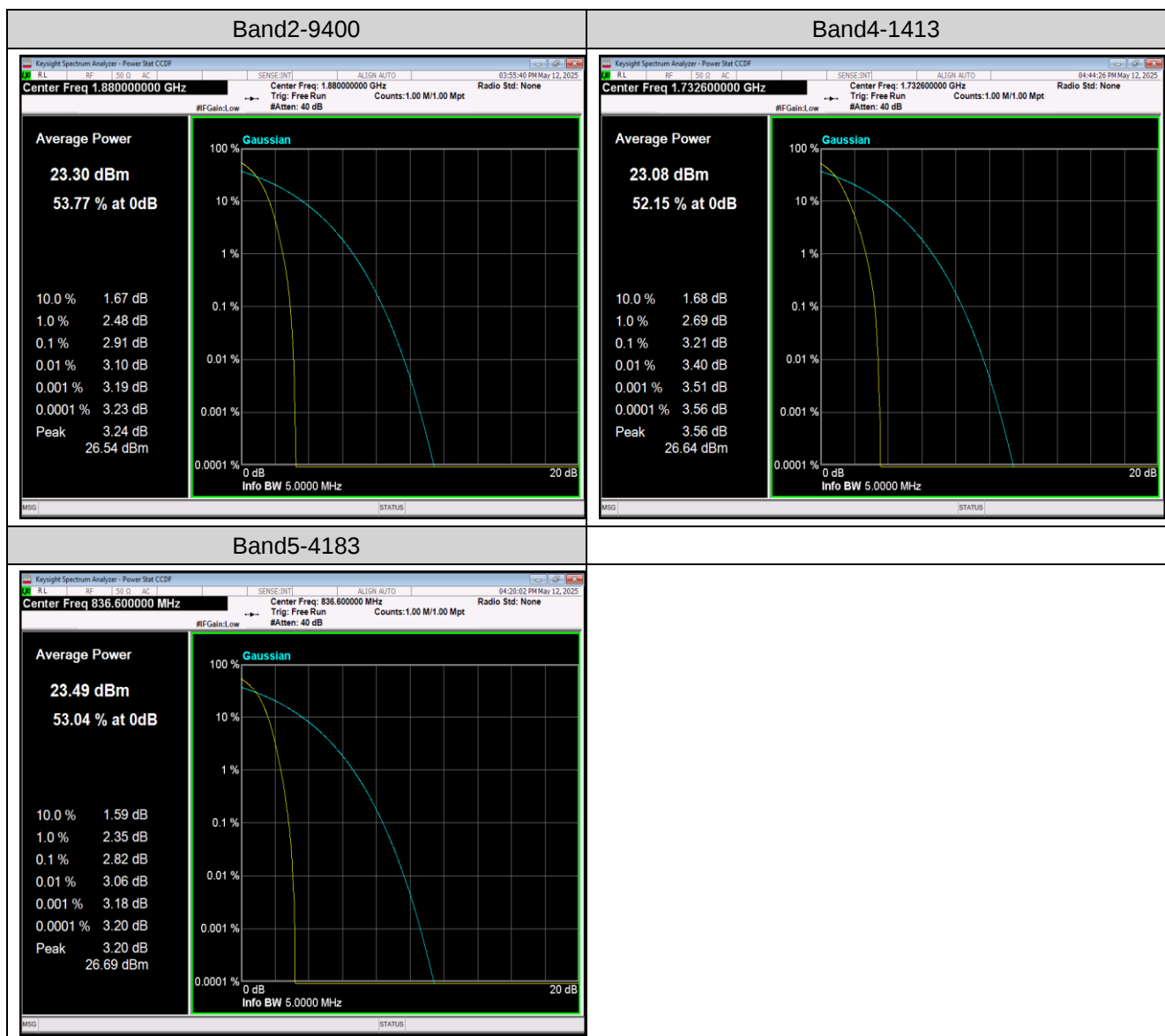
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 2.91                      | 13        | PASS    |
| Band4 | 1413    | 3.21                      | 13        | PASS    |
| Band5 | 4183    | 2.82                      | 13        | PASS    |

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

### Test Graphs(WCDMA)

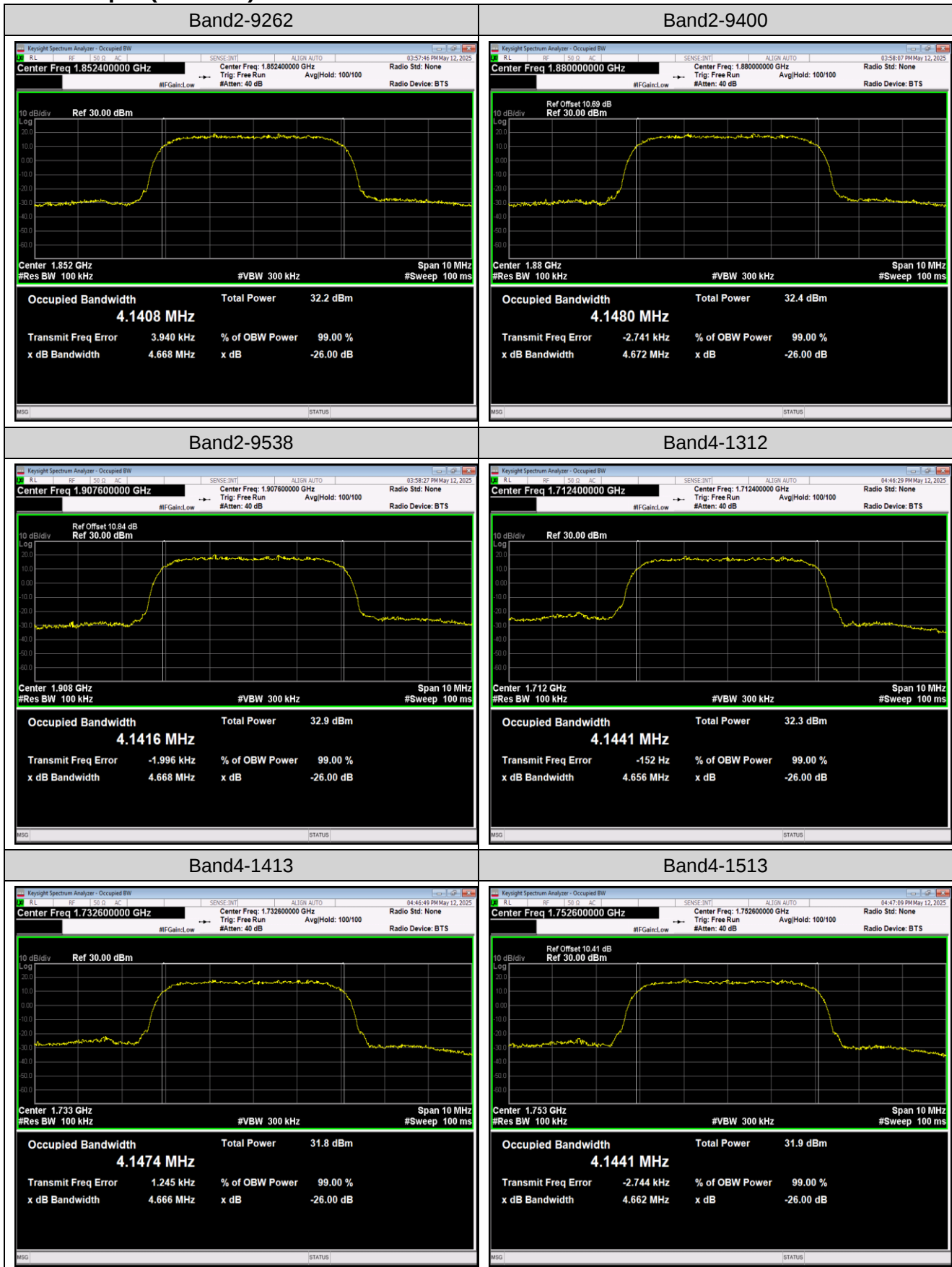


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9262    | 4.1408                      | 4.668                   | ---        | PASS    |
| Band2 | 9400    | 4.1480                      | 4.672                   | ---        | PASS    |
| Band2 | 9538    | 4.1416                      | 4.668                   | ---        | PASS    |
| Band4 | 1312    | 4.1441                      | 4.656                   | ---        | PASS    |
| Band4 | 1413    | 4.1474                      | 4.666                   | ---        | PASS    |
| Band4 | 1513    | 4.1441                      | 4.662                   | ---        | PASS    |
| Band5 | 4132    | 4.1577                      | 4.690                   | ---        | PASS    |
| Band5 | 4183    | 4.1739                      | 4.693                   | ---        | PASS    |
| Band5 | 4233    | 4.1835                      | 4.713                   | ---        | PASS    |

## Test Graphs(WCDMA)



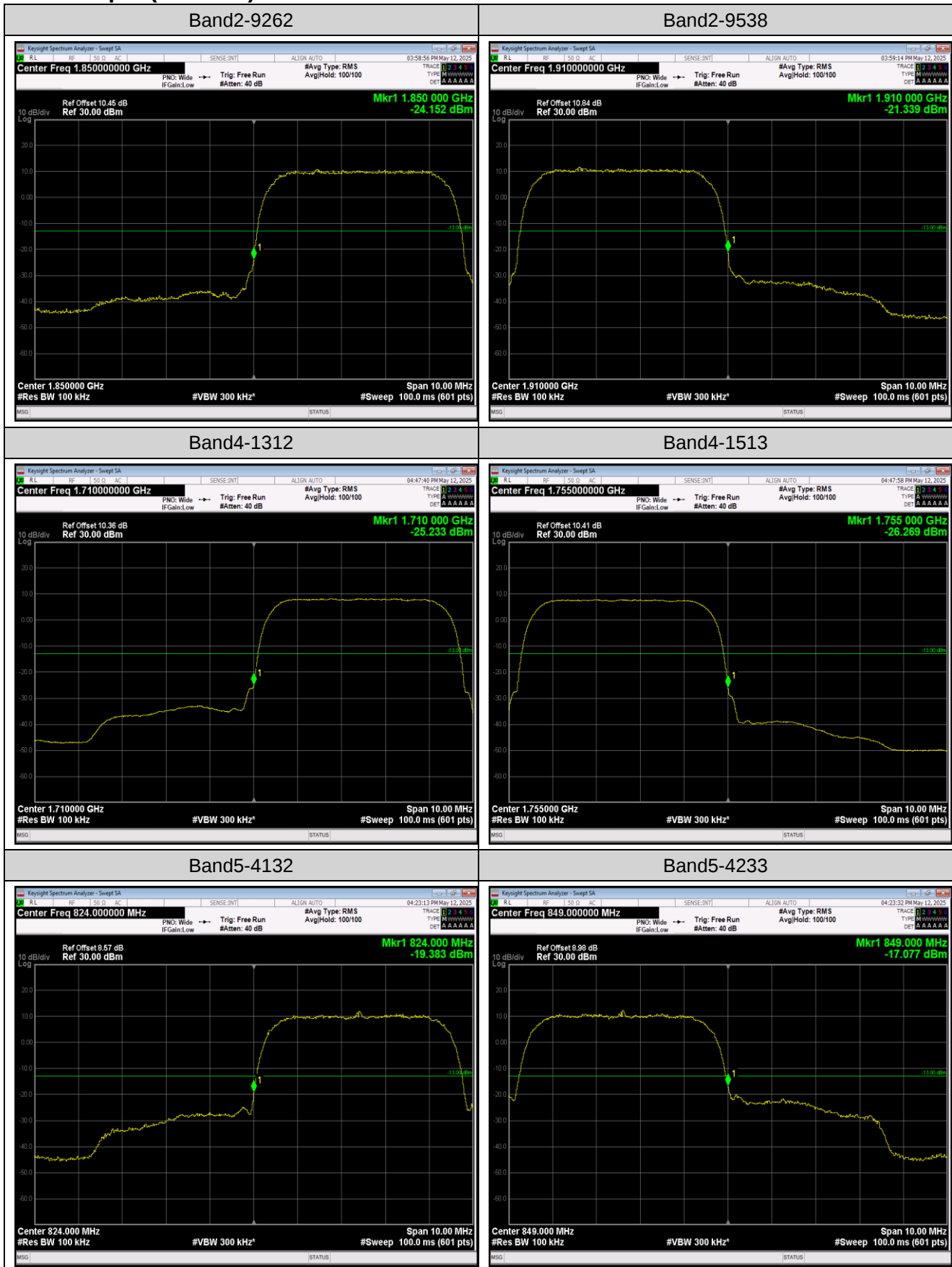


## AppendixD:Band Edge

### Test Result(WCDMA)

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1850.00         | -24.15       | -13        | PASS    |
| Band2 | 9538    | 1910.00         | -21.34       | -13        | PASS    |
| Band4 | 1312    | 1710.00         | -25.23       | -13        | PASS    |
| Band4 | 1513    | 1755.00         | -26.27       | -13        | PASS    |
| Band5 | 4132    | 824.00          | -19.38       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -17.08       | -13        | PASS    |

## Test Graphs(WCDMA)



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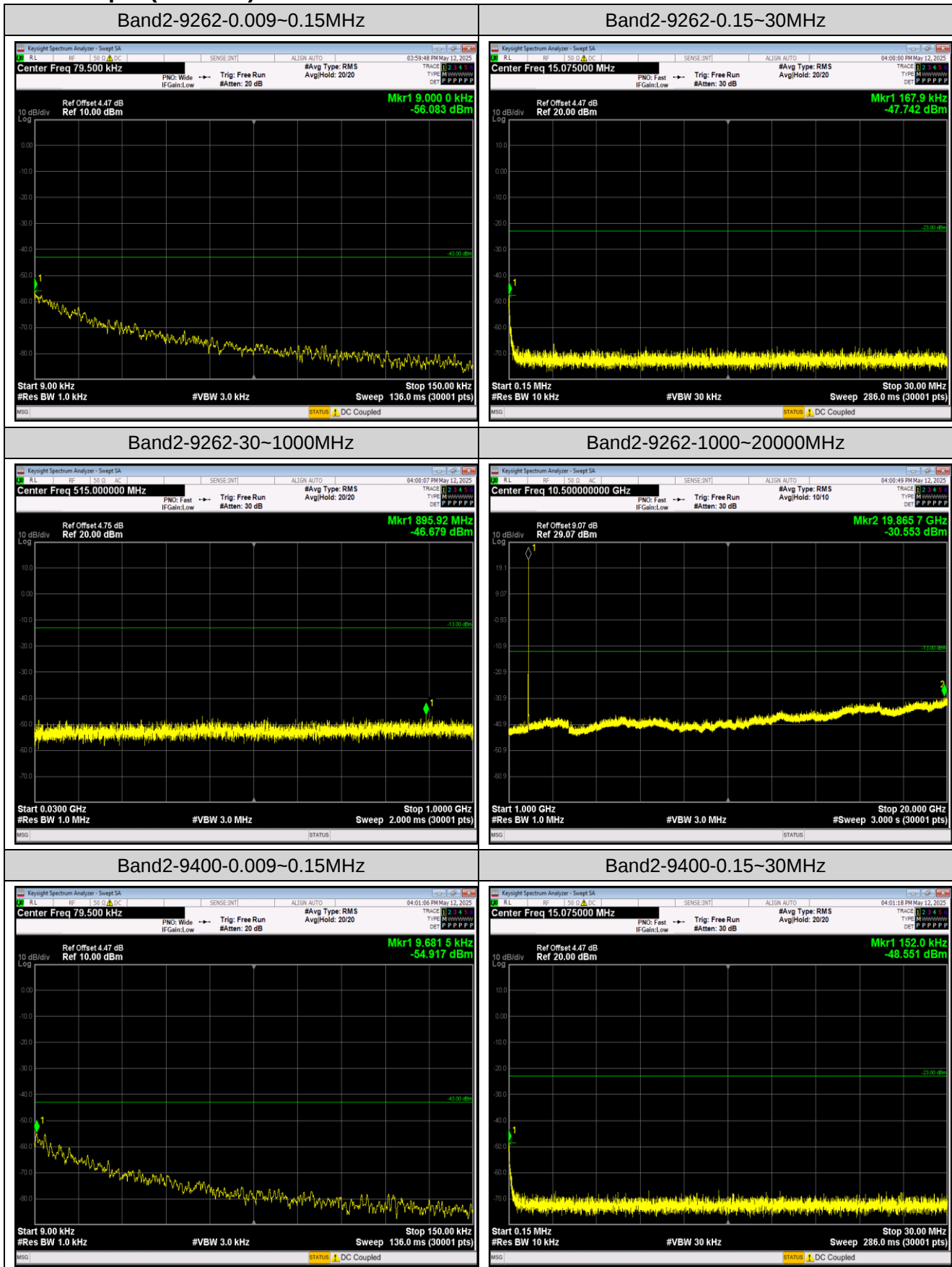
Project No.: JYTSZR2504071

## AppendixE:Conducted SpuriousEmission

### Test Result(WCDMA)

| Band  | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262    | 0.009~0.15MHz         | 0.01            | -56.08       | -43         | PASS    |
| Band2 | 9262    | 0.15~30MHz            | 0.17            | -47.74       | -23         | PASS    |
| Band2 | 9262    | 30~1000MHz            | 895.92          | -46.68       | -13         | PASS    |
| Band2 | 9262    | 1000~20000MHz         | 19865.73        | -30.55       | -13         | PASS    |
| Band2 | 9400    | 0.009~0.15MHz         | 0.01            | -54.92       | -43         | PASS    |
| Band2 | 9400    | 0.15~30MHz            | 0.15            | -48.55       | -23         | PASS    |
| Band2 | 9400    | 30~1000MHz            | 993.5           | -46.53       | -13         | PASS    |
| Band2 | 9400    | 1000~20000MHz         | 19957.57        | -30.36       | -13         | PASS    |
| Band2 | 9538    | 0.009~0.15MHz         | 0.01            | -54.9        | -43         | PASS    |
| Band2 | 9538    | 0.15~30MHz            | 0.15            | -47.42       | -23         | PASS    |
| Band2 | 9538    | 30~1000MHz            | 911.47          | -45.38       | -13         | PASS    |
| Band2 | 9538    | 1000~20000MHz         | 19972.77        | -30.57       | -13         | PASS    |
| Band4 | 1312    | 0.009~0.15MHz         | 0.01            | -56.34       | -43         | PASS    |
| Band4 | 1312    | 0.15~30MHz            | 0.18            | -47.68       | -23         | PASS    |
| Band4 | 1312    | 30~1000MHz            | 734.19          | -44.86       | -13         | PASS    |
| Band4 | 1312    | 1000~20000MHz         | 19977.2         | -30.85       | -13         | PASS    |
| Band4 | 1413    | 0.009~0.15MHz         | 0.01            | -56.82       | -43         | PASS    |
| Band4 | 1413    | 0.15~30MHz            | 0.16            | -48.57       | -23         | PASS    |
| Band4 | 1413    | 30~1000MHz            | 820.68          | -45.68       | -13         | PASS    |
| Band4 | 1413    | 1000~20000MHz         | 19934.77        | -30.4        | -13         | PASS    |
| Band4 | 1513    | 0.009~0.15MHz         | 0.01            | -56.76       | -43         | PASS    |
| Band4 | 1513    | 0.15~30MHz            | 0.16            | -46.38       | -23         | PASS    |
| Band4 | 1513    | 30~1000MHz            | 701.01          | -45.65       | -13         | PASS    |
| Band4 | 1513    | 1000~20000MHz         | 19820.77        | -30.64       | -13         | PASS    |
| Band5 | 4132    | 0.009~0.15MHz         | 0.01            | -55.14       | -33         | PASS    |
| Band5 | 4132    | 0.15~30MHz            | 0.15            | -48.01       | -13         | PASS    |
| Band5 | 4132    | 30~1000MHz            | 489.26          | -55.34       | -13         | PASS    |
| Band5 | 4132    | 1000~10000MHz         | 3038.2          | -37.39       | -13         | PASS    |
| Band5 | 4183    | 0.009~0.15MHz         | 0.01            | -55.2        | -33         | PASS    |
| Band5 | 4183    | 0.15~30MHz            | 0.16            | -44.3        | -13         | PASS    |
| Band5 | 4183    | 30~1000MHz            | 732.02          | -55.15       | -13         | PASS    |
| Band5 | 4183    | 1000~10000MHz         | 3071.8          | -37.07       | -13         | PASS    |
| Band5 | 4233    | 0.009~0.15MHz         | 0.01            | -54.65       | -33         | PASS    |
| Band5 | 4233    | 0.15~30MHz            | 0.16            | -47.96       | -13         | PASS    |
| Band5 | 4233    | 30~1000MHz            | 987.45          | -54.11       | -13         | PASS    |
| Band5 | 4233    | 1000~10000MHz         | 7421.2          | -37.4        | -13         | PASS    |

## Test Graphs(WCDMA)

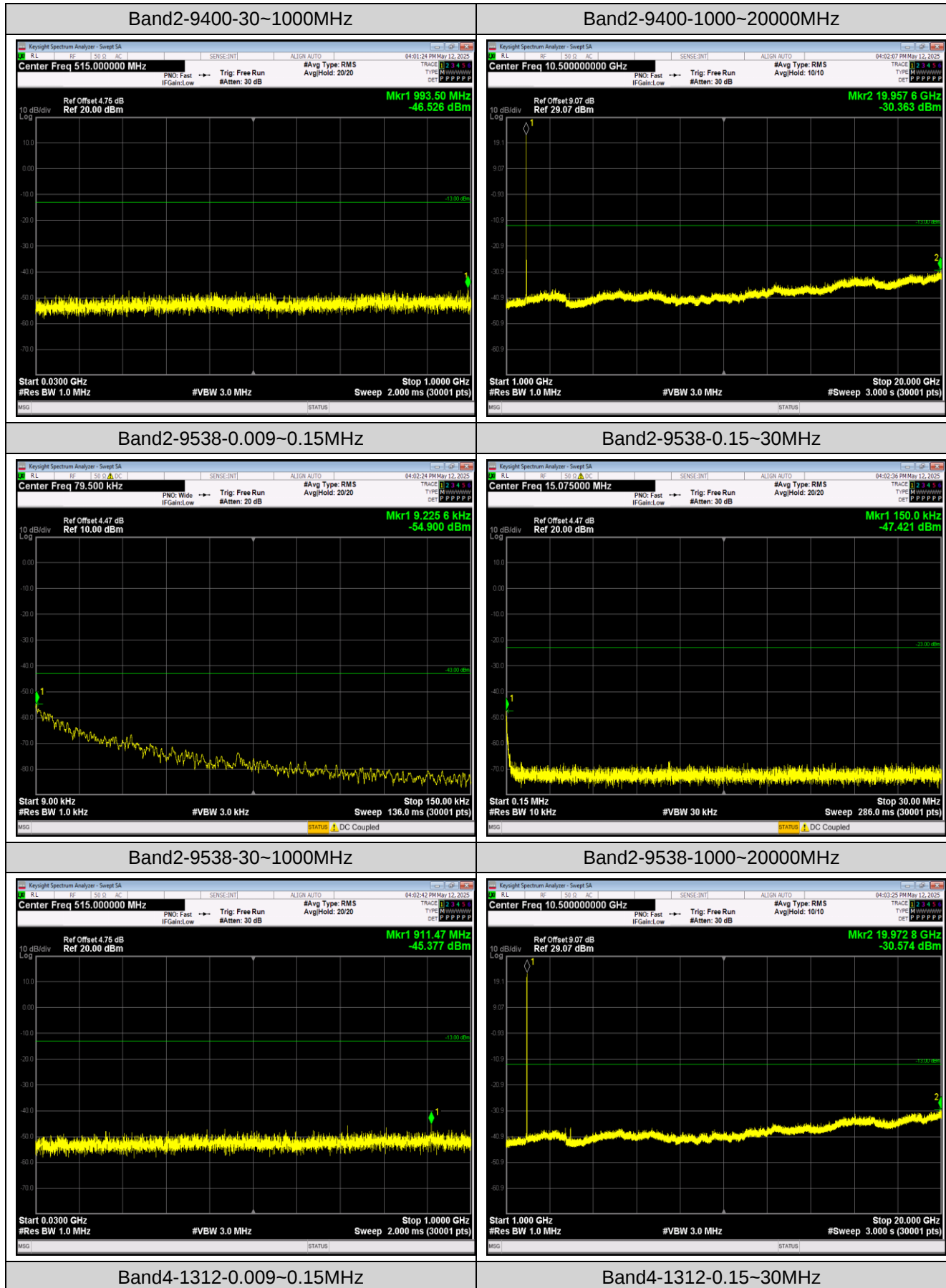


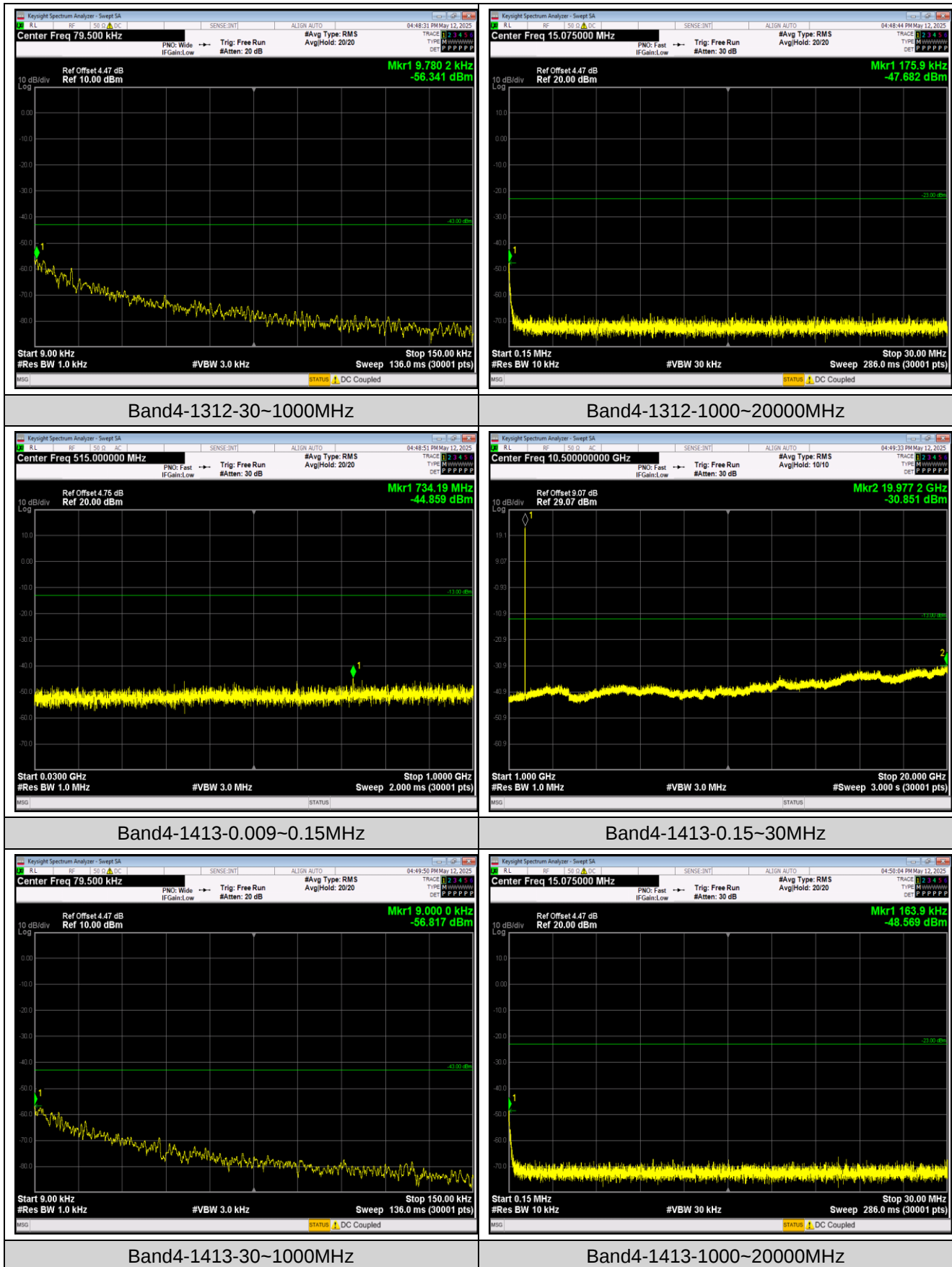
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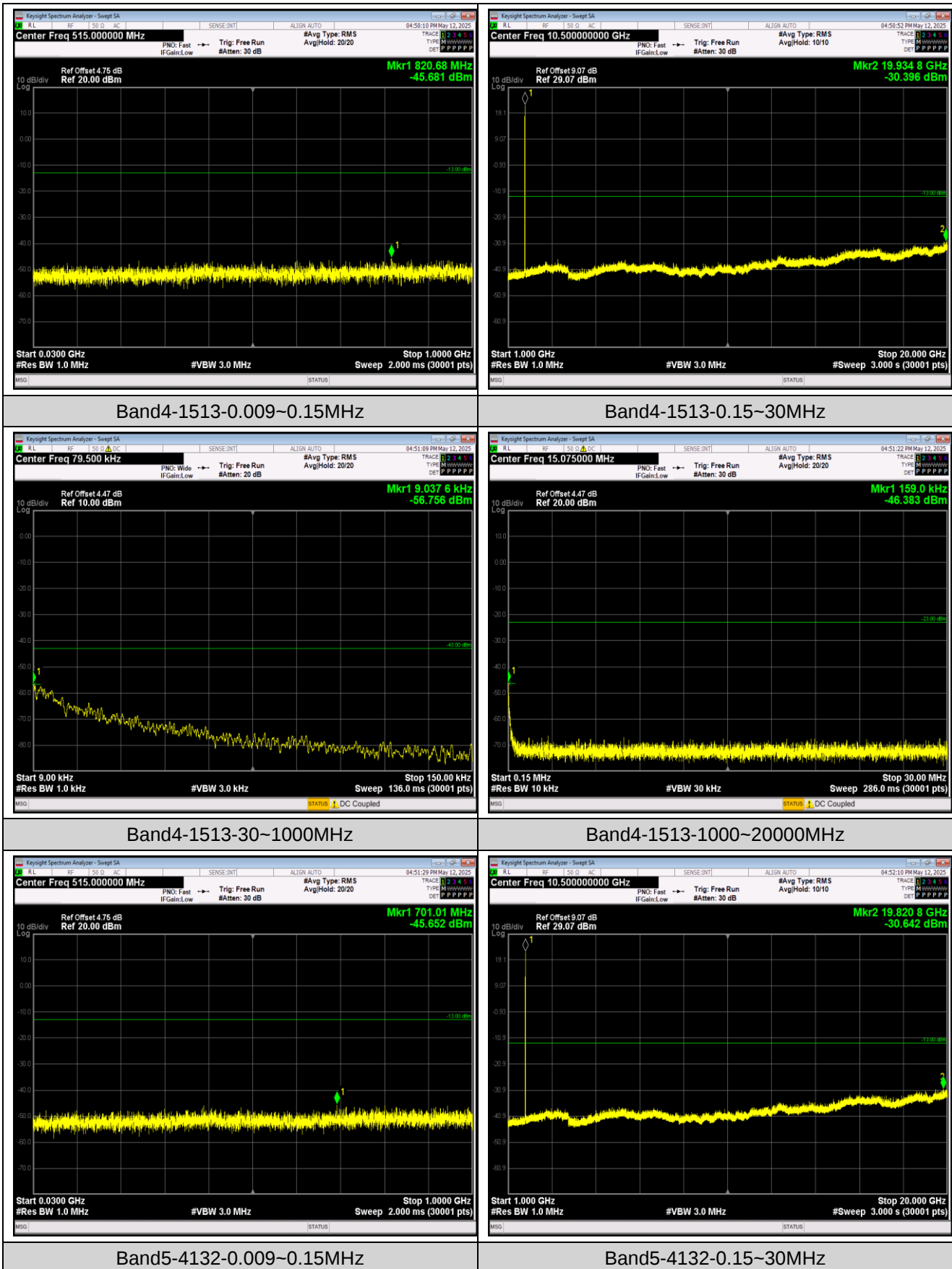
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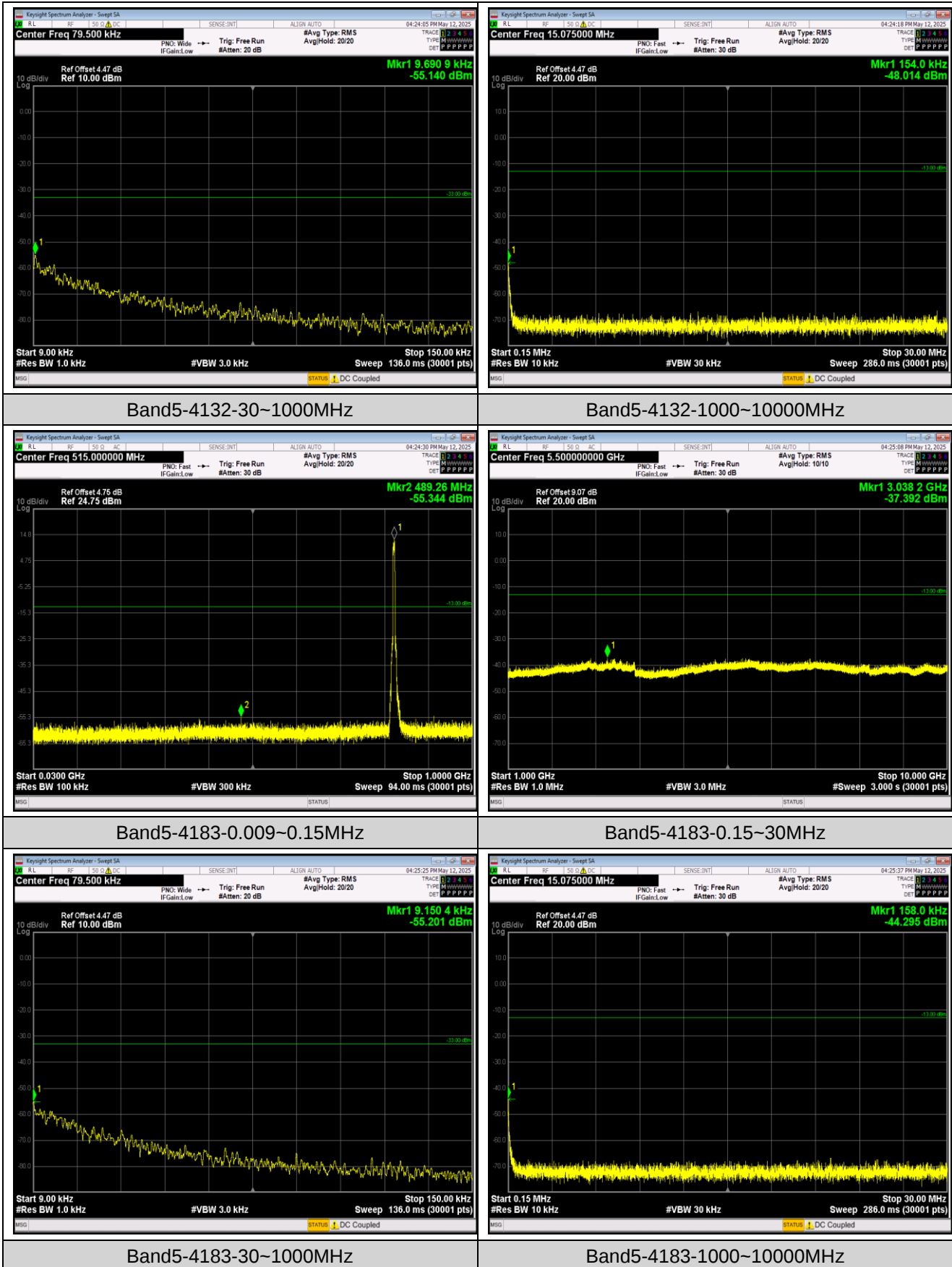
Tel: +86-755-23118282, Fax: +86-755-23116366

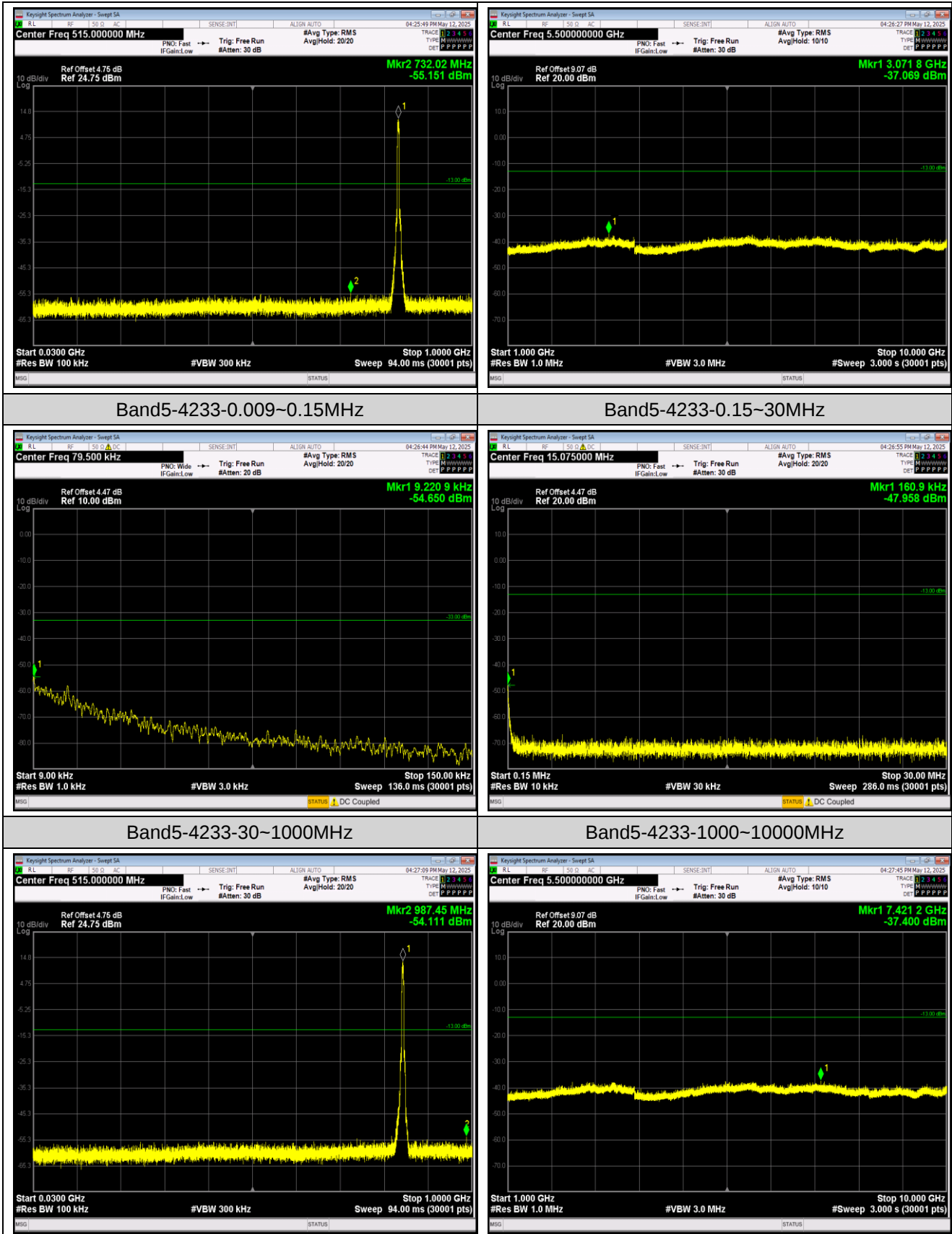
Project No.: JYTSZR2504071











## AppendixF:Frequency Stability

### Test Result

| Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz          |                         |                 |           |             |        |
|---------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|-------------|--------|
| Temperature                                                                                 |                         |                 |           |             |        |
| Power supplied<br>(Vdc)                                                                     | Temperature<br>(℃)      | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 3.80                                                                                        | -30                     | 0.59            | 0.000705  | ±2.5        | Pass   |
|                                                                                             | -20                     | -0.88           | -0.001052 |             |        |
|                                                                                             | -10                     | -0.87           | -0.001040 |             |        |
|                                                                                             | 0                       | -1.81           | -0.002164 |             |        |
|                                                                                             | 10                      | 0.65            | 0.000777  |             |        |
|                                                                                             | 20                      | -0.18           | -0.000215 |             |        |
|                                                                                             | 30                      | -2.37           | -0.002833 |             |        |
|                                                                                             | 40                      | -2.00           | -0.002391 |             |        |
|                                                                                             | 50                      | -1.36           | -0.001626 |             |        |
| Voltage                                                                                     |                         |                 |           |             |        |
| Temperature<br>(℃)                                                                          | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 25                                                                                          | 3.30                    | 1.13            | 0.001351  | ±2.5        | Pass   |
|                                                                                             | 3.80                    | -1.09           | -0.001303 |             |        |
|                                                                                             | 4.35                    | -0.83           | -0.000992 |             |        |
| Remark: All channel had been tested, but only the worst case data displayed in this report. |                         |                 |           |             |        |

| Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz        |                         |                 |           |                                       |        |
|---------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|---------------------------------------|--------|
| Temperature                                                                                 |                         |                 |           |                                       |        |
| Power supplied<br>(Vdc)                                                                     | Temperature<br>(°C)     | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 3.70                                                                                        | -30                     | -4.16           | -0.002401 | Within authorized<br>band for BAND IV | Pass   |
|                                                                                             | -20                     | -5.59           | -0.003226 |                                       |        |
|                                                                                             | -10                     | -1.56           | -0.000900 |                                       |        |
|                                                                                             | 0                       | -9.43           | -0.005443 |                                       |        |
|                                                                                             | 10                      | 3.40            | 0.001962  |                                       |        |
|                                                                                             | 20                      | 5.47            | 0.003157  |                                       |        |
|                                                                                             | 30                      | 7.95            | 0.004588  |                                       |        |
|                                                                                             | 40                      | 5.52            | 0.003186  |                                       |        |
|                                                                                             | 50                      | 5.52            | 0.003186  |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.30                    | -5.82           | -0.003359 | Within authorized<br>band for BAND IV | Pass   |
|                                                                                             | 3.70                    | 3.38            | 0.001951  |                                       |        |
|                                                                                             | 4.25                    | -2.53           | -0.001460 |                                       |        |
| 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<br>(Vdc)                                                                     | Temperature<br>(°C)     | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 3.70                                                                                        | -30                     | 3.53            | 0.001878  | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | -20                     | 8.68            | 0.004617  |                                       |        |
|                                                                                             | -10                     | -1.80           | -0.000957 |                                       |        |
|                                                                                             | 0                       | 3.57            | 0.001899  |                                       |        |
|                                                                                             | 10                      | 2.98            | 0.001585  |                                       |        |
|                                                                                             | 20                      | -4.81           | -0.002559 |                                       |        |
|                                                                                             | 30                      | 0.00            | 0.000000  |                                       |        |
|                                                                                             | 40                      | -9.63           | -0.005122 |                                       |        |
|                                                                                             | 50                      | 5.04            | 0.002681  |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.30                    | -3.68           | -0.001957 | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | 3.70                    | 3.07            | 0.001633  |                                       |        |
|                                                                                             | 4.25                    | 1.67            | 0.000888  |                                       |        |
| 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    |
| Band4 | 1413    | PASS   | PASS    |
| Band5 | 4183    | PASS   | PASS    |

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

### Test Graphs

