

## 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    | 23.33                 | 23.7           | 33.01                | PASS    |
| Band2 | TestMode | 9262    | 23.36                 | 23.73          | 33.01                | PASS    |
| Band2 | Voice    | 9400    | 23.46                 | 23.83          | 33.01                | PASS    |
| Band2 | TestMode | 9400    | 23.49                 | 23.86          | 33.01                | PASS    |
| Band2 | Voice    | 9538    | 23.67                 | 24.04          | 33.01                | PASS    |
| Band2 | TestMode | 9538    | 23.68                 | 24.05          | 33.01                | PASS    |
| Band5 | Voice    | 4132    | 23.39                 | 20.68          | 38.45                | PASS    |
| Band5 | TestMode | 4132    | 23.37                 | 20.66          | 38.45                | PASS    |
| Band5 | Voice    | 4183    | 23.36                 | 20.65          | 38.45                | PASS    |
| Band5 | TestMode | 4183    | 23.35                 | 20.64          | 38.45                | PASS    |
| Band5 | Voice    | 4233    | 23.33                 | 20.62          | 38.45                | PASS    |
| Band5 | TestMode | 4233    | 23.33                 | 20.62          | 38.45                | PASS    |

### Test Result(HSDPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 23.72                 | 24.09          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 23.53                 | 23.9           | 33.01                | PASS    |
| Band2 | 9262    | 3       | 22.20                 | 22.57          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 22.23                 | 22.6           | 33.01                | PASS    |
| Band2 | 9400    | 1       | 23.60                 | 23.97          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 23.46                 | 23.83          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 22.15                 | 22.52          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 22.23                 | 22.6           | 33.01                | PASS    |
| Band2 | 9538    | 1       | 23.89                 | 24.26          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 23.66                 | 24.03          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 22.55                 | 22.92          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 22.64                 | 23.01          | 33.01                | PASS    |
| Band5 | 4132    | 1       | 24.04                 | 21.33          | 38.45                | PASS    |
| Band5 | 4132    | 2       | 23.40                 | 20.69          | 38.45                | PASS    |
| Band5 | 4132    | 3       | 21.79                 | 19.08          | 38.45                | PASS    |
| Band5 | 4132    | 4       | 21.75                 | 19.04          | 38.45                | PASS    |
| Band5 | 4183    | 1       | 23.82                 | 21.11          | 38.45                | PASS    |
| Band5 | 4183    | 2       | 23.00                 | 20.29          | 38.45                | PASS    |
| Band5 | 4183    | 3       | 21.78                 | 19.07          | 38.45                | PASS    |

|       |      |   |       |       |       |      |
|-------|------|---|-------|-------|-------|------|
| Band5 | 4183 | 4 | 21.81 | 19.1  | 38.45 | PASS |
| Band5 | 4233 | 1 | 23.34 | 20.63 | 38.45 | PASS |
| Band5 | 4233 | 2 | 22.55 | 19.84 | 38.45 | PASS |
| Band5 | 4233 | 3 | 21.29 | 18.58 | 38.45 | PASS |
| Band5 | 4233 | 4 | 21.34 | 18.63 | 38.45 | PASS |

### Test Result(HSUPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 20.45                 | 20.82          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 20.99                 | 21.36          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 20.78                 | 21.15          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 20.99                 | 21.36          | 33.01                | PASS    |
| Band2 | 9262    | 5       | 22.79                 | 23.16          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 20.73                 | 21.1           | 33.01                | PASS    |
| Band2 | 9400    | 2       | 21.08                 | 21.45          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 20.81                 | 21.18          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 21.14                 | 21.51          | 33.01                | PASS    |
| Band2 | 9400    | 5       | 22.64                 | 23.01          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 21.04                 | 21.41          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 21.41                 | 21.78          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 21.07                 | 21.44          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 21.48                 | 21.85          | 33.01                | PASS    |
| Band2 | 9538    | 5       | 22.99                 | 23.36          | 33.01                | PASS    |
| Band5 | 4132    | 1       | 21.15                 | 18.44          | 38.45                | PASS    |
| Band5 | 4132    | 2       | 21.27                 | 18.56          | 38.45                | PASS    |
| Band5 | 4132    | 3       | 20.95                 | 18.24          | 38.45                | PASS    |
| Band5 | 4132    | 4       | 20.74                 | 18.03          | 38.45                | PASS    |
| Band5 | 4132    | 5       | 24.02                 | 21.31          | 38.45                | PASS    |
| Band5 | 4183    | 1       | 20.98                 | 18.27          | 38.45                | PASS    |
| Band5 | 4183    | 2       | 21.10                 | 18.39          | 38.45                | PASS    |
| Band5 | 4183    | 3       | 20.73                 | 18.02          | 38.45                | PASS    |
| Band5 | 4183    | 4       | 20.54                 | 17.83          | 38.45                | PASS    |
| Band5 | 4183    | 5       | 23.83                 | 21.12          | 38.45                | PASS    |
| Band5 | 4233    | 1       | 20.51                 | 17.8           | 38.45                | PASS    |
| Band5 | 4233    | 2       | 20.65                 | 17.94          | 38.45                | PASS    |
| Band5 | 4233    | 3       | 20.48                 | 17.77          | 38.45                | PASS    |
| Band5 | 4233    | 4       | 20.39                 | 17.68          | 38.45                | PASS    |
| Band5 | 4233    | 5       | 23.41                 | 20.7           | 38.45                | PASS    |

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

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

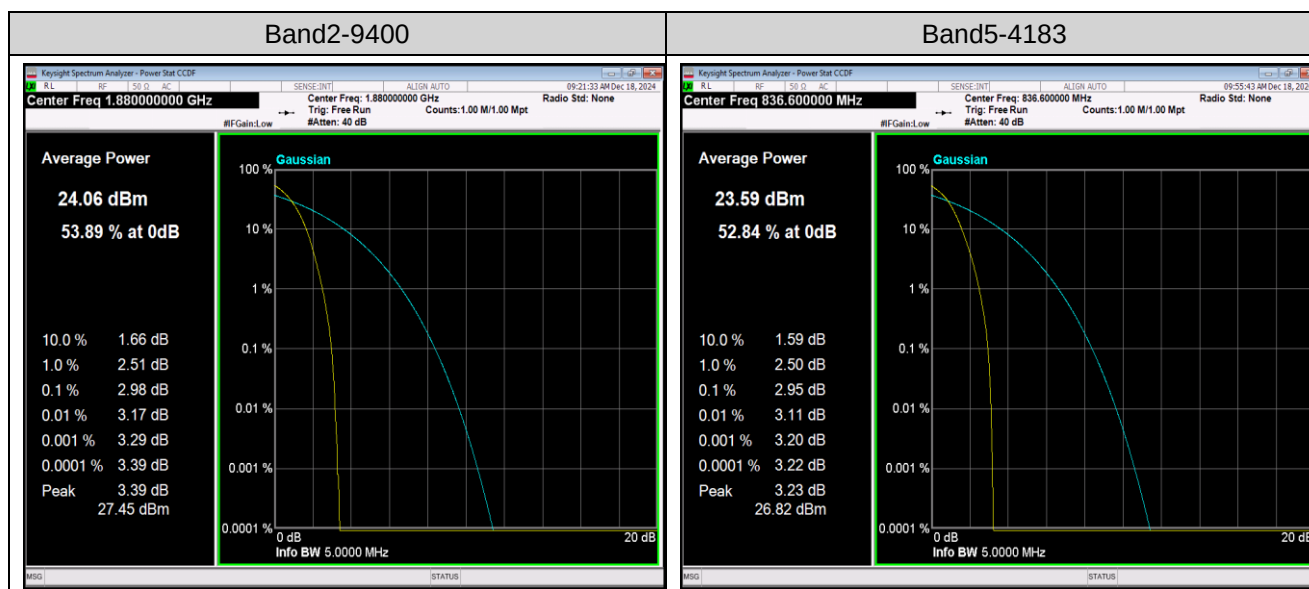
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 2.98                      | 13        | PASS    |
| Band5 | 4183    | 2.95                      | 13        | PASS    |

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

### Test Graphs(WCDMA)

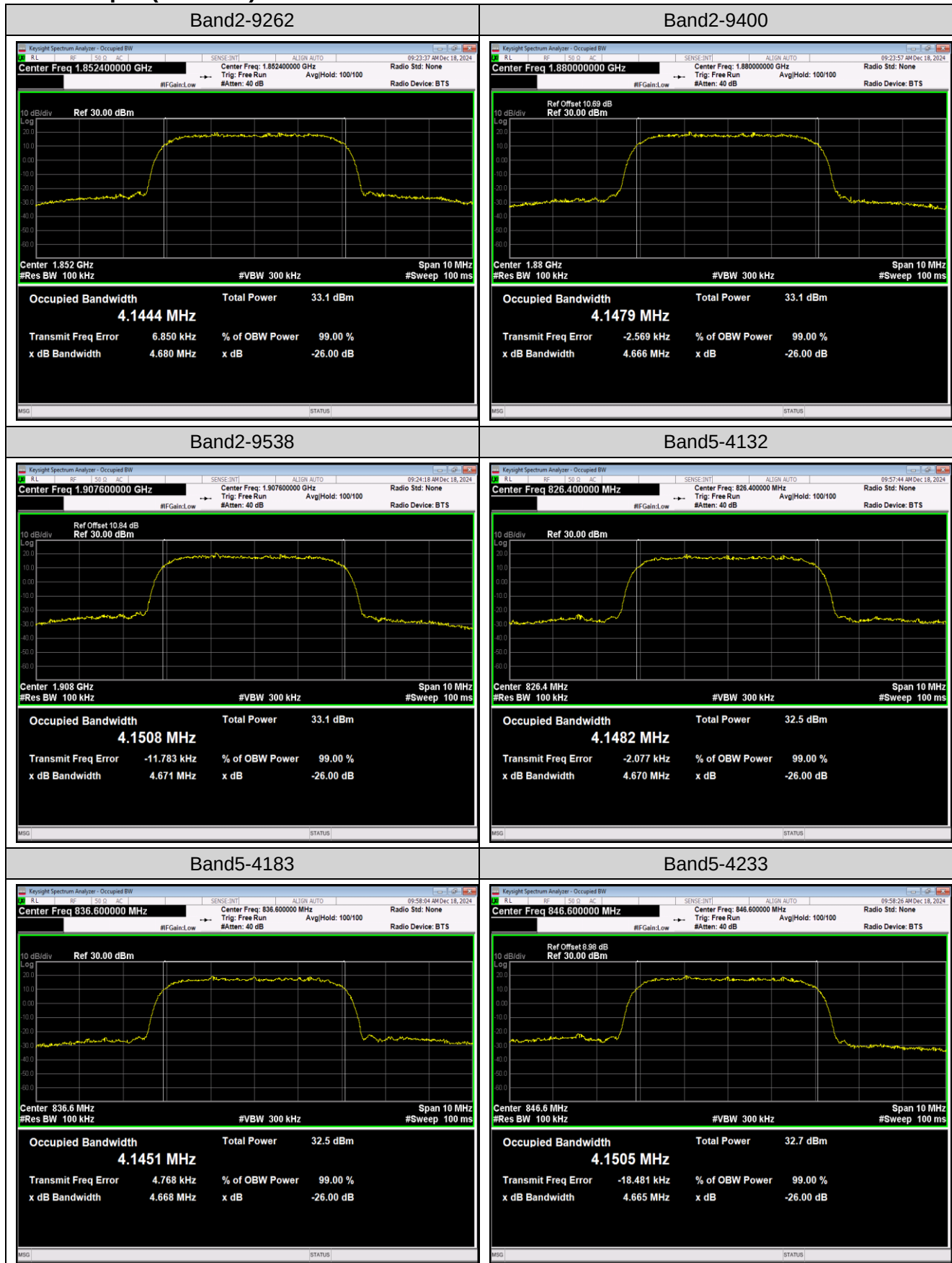


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9262    | 4.1444                      | 4.680                   | ---        | PASS    |
| Band2 | 9400    | 4.1479                      | 4.666                   | ---        | PASS    |
| Band2 | 9538    | 4.1508                      | 4.671                   | ---        | PASS    |
| Band5 | 4132    | 4.1482                      | 4.670                   | ---        | PASS    |
| Band5 | 4183    | 4.1451                      | 4.668                   | ---        | PASS    |
| Band5 | 4233    | 4.1505                      | 4.665                   | ---        | PASS    |

## Test Graphs(WCDMA)

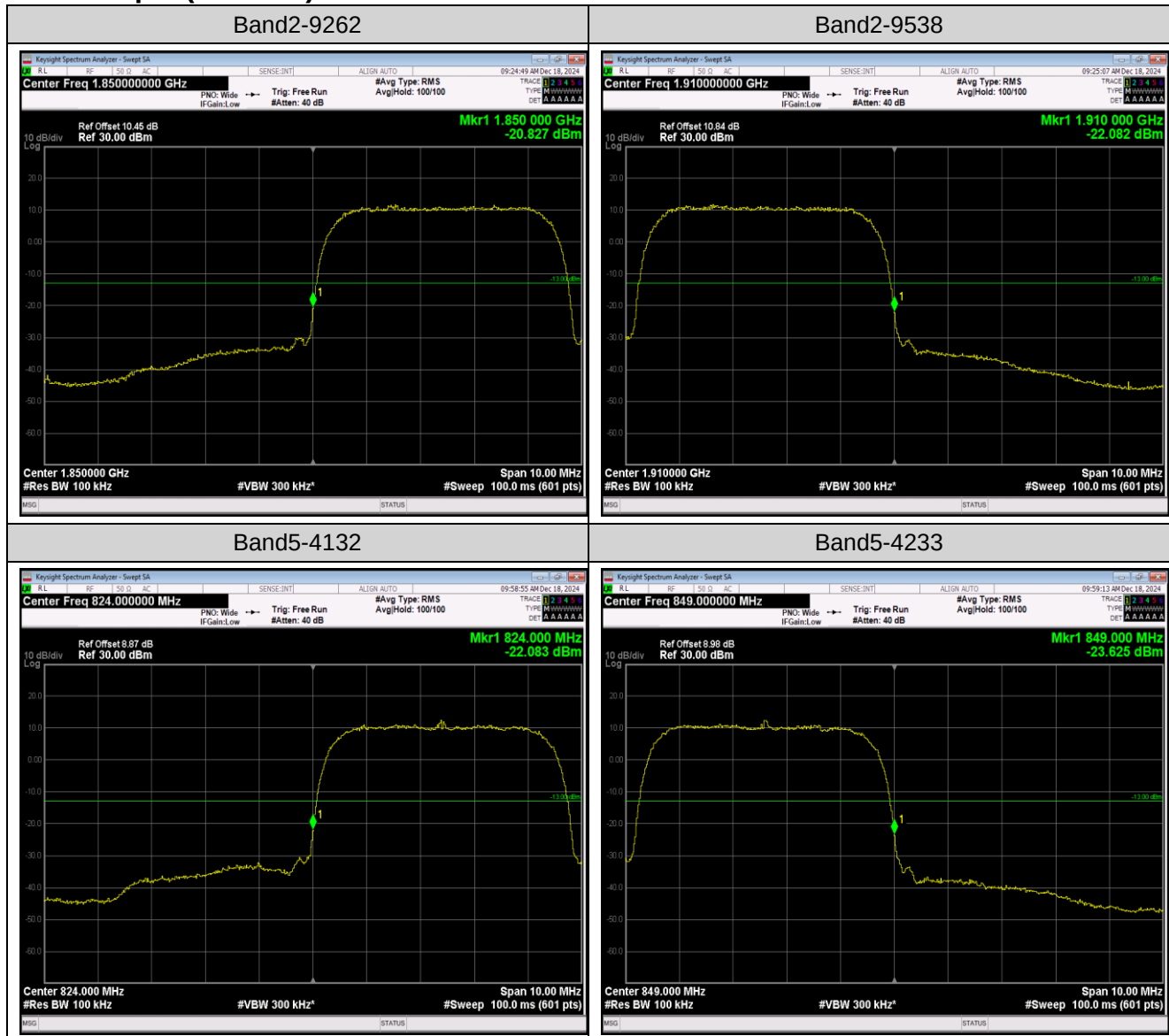


## AppendixD:Band Edge

### Test Result(WCDMA)

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1850.00         | -20.83       | -13        | PASS    |
| Band2 | 9538    | 1910.00         | -22.08       | -13        | PASS    |
| Band5 | 4132    | 824.00          | -22.08       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -23.62       | -13        | PASS    |

## Test Graphs(WCDMA)



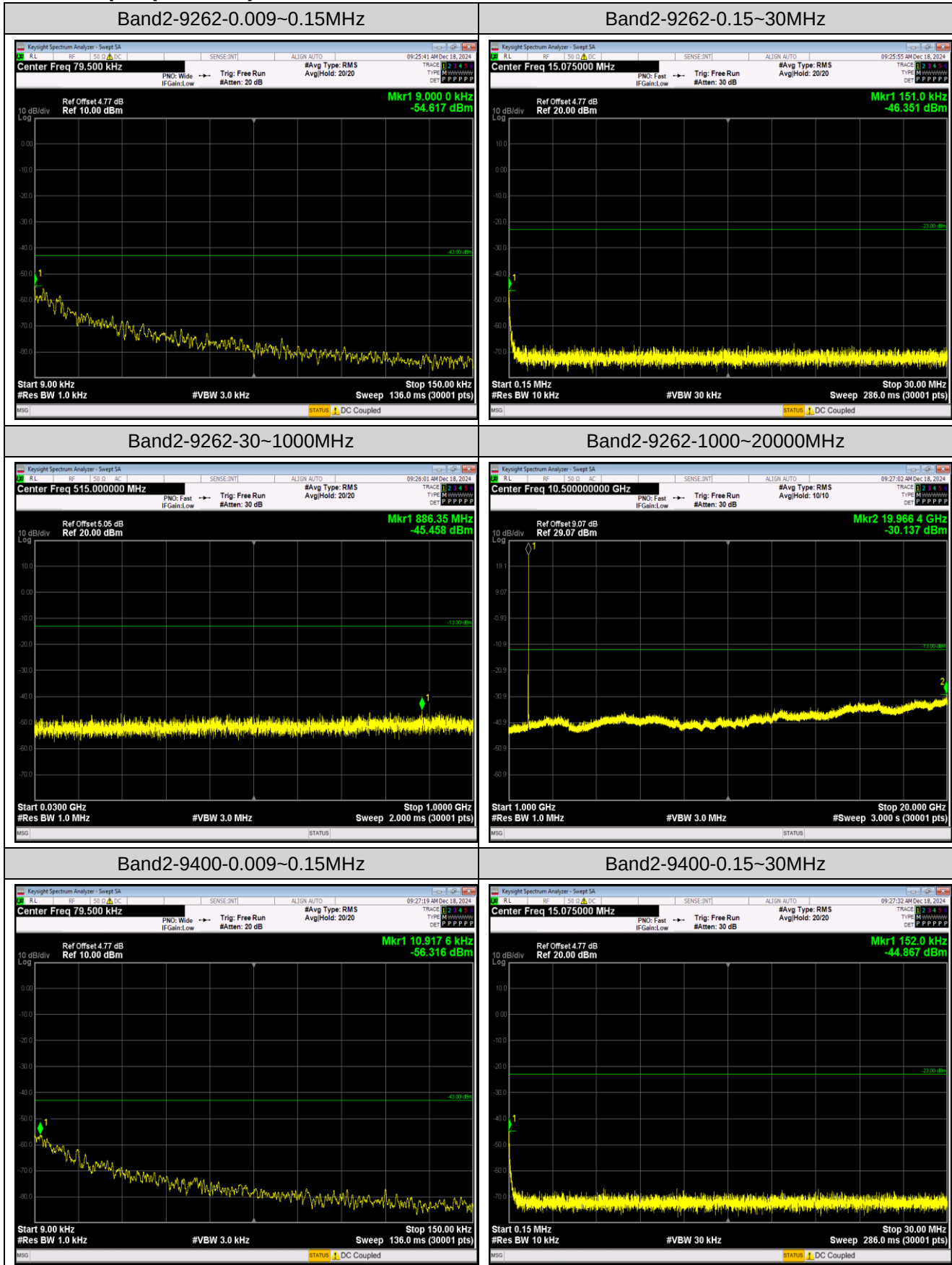
## AppendixE:Conducted SpuriousEmission

### Test Result(WCDMA)

| Band  | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262    | 0.009~0.15MHz         | 0.01            | -54.62       | -43         | PASS    |
| Band2 | 9262    | 0.15~30MHz            | 0.15            | -46.35       | -23         | PASS    |
| Band2 | 9262    | 30~1000MHz            | 886.35          | -45.46       | -13         | PASS    |
| Band2 | 9262    | 1000~20000MHz         | 19966.43        | -30.14       | -13         | PASS    |
| Band2 | 9400    | 0.009~0.15MHz         | 0.01            | -56.32       | -43         | PASS    |
| Band2 | 9400    | 0.15~30MHz            | 0.15            | -44.87       | -23         | PASS    |
| Band2 | 9400    | 30~1000MHz            | 676.63          | -45.44       | -13         | PASS    |
| Band2 | 9400    | 1000~20000MHz         | 19954.4         | -30.57       | -13         | PASS    |
| Band2 | 9538    | 0.009~0.15MHz         | 0.01            | -57.4        | -43         | PASS    |
| Band2 | 9538    | 0.15~30MHz            | 0.15            | -47.01       | -23         | PASS    |
| Band2 | 9538    | 30~1000MHz            | 948.53          | -45.4        | -13         | PASS    |
| Band2 | 9538    | 1000~20000MHz         | 19942.37        | -30.93       | -13         | PASS    |
| Band5 | 4132    | 0.009~0.15MHz         | 0.01            | -55.61       | -33         | PASS    |
| Band5 | 4132    | 0.15~30MHz            | 0.15            | -45.98       | -13         | PASS    |
| Band5 | 4132    | 30~1000MHz            | 520.01          | -54.43       | -13         | PASS    |
| Band5 | 4132    | 1000~10000MHz         | 5911.6          | -36.45       | -13         | PASS    |
| Band5 | 4183    | 0.009~0.15MHz         | 0.01            | -55.87       | -33         | PASS    |
| Band5 | 4183    | 0.15~30MHz            | 0.15            | -45.18       | -13         | PASS    |
| Band5 | 4183    | 30~1000MHz            | 560.56          | -54.59       | -13         | PASS    |
| Band5 | 4183    | 1000~10000MHz         | 5374.6          | -36.77       | -13         | PASS    |
| Band5 | 4233    | 0.009~0.15MHz         | 0.01            | -56.89       | -33         | PASS    |
| Band5 | 4233    | 0.15~30MHz            | 0.15            | -46.45       | -13         | PASS    |
| Band5 | 4233    | 30~1000MHz            | 992.47          | -55.06       | -13         | PASS    |
| Band5 | 4233    | 1000~10000MHz         | 5977.3          | -36.28       | -13         | PASS    |



## Test Graphs(WCDMA)

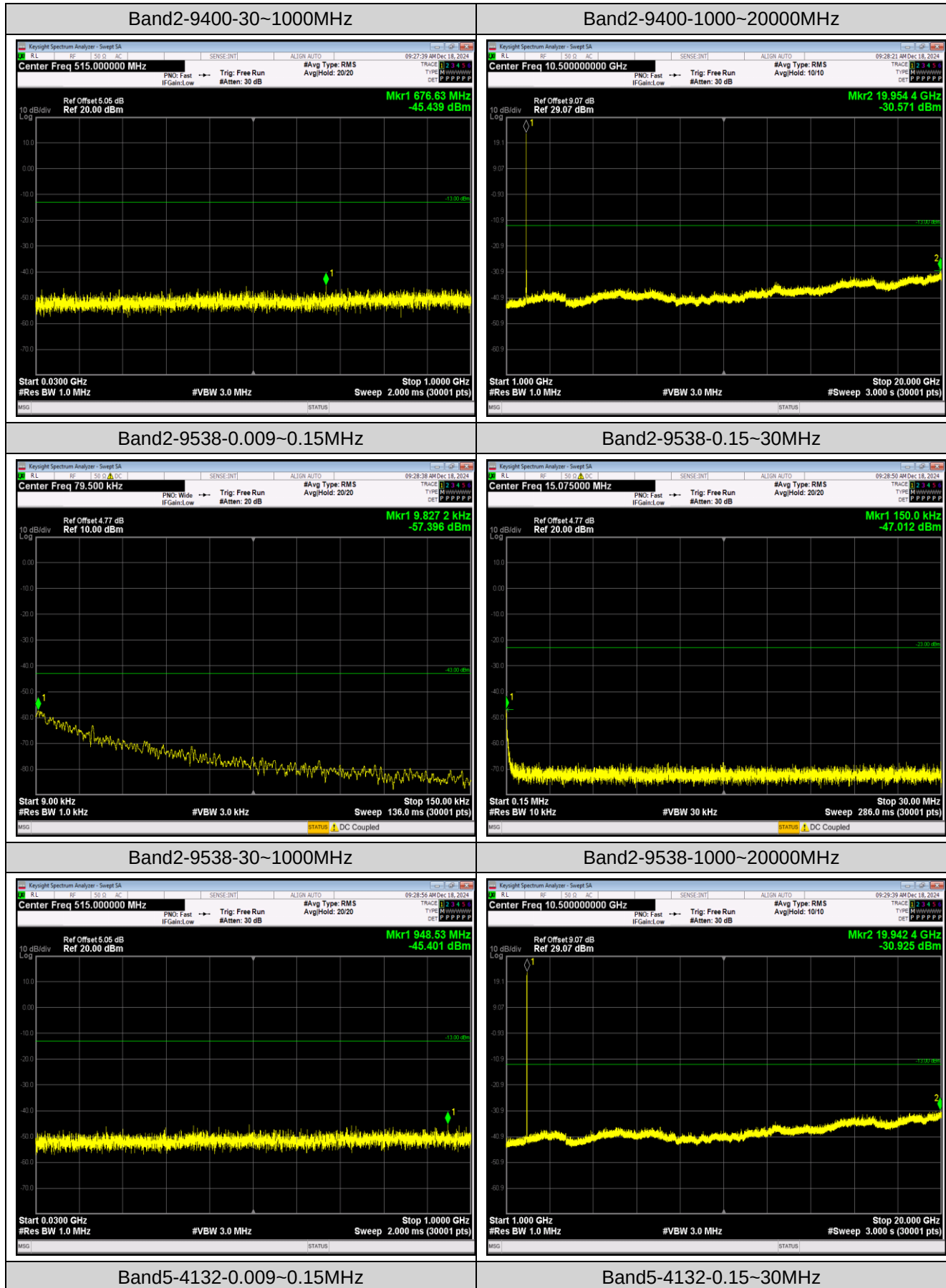


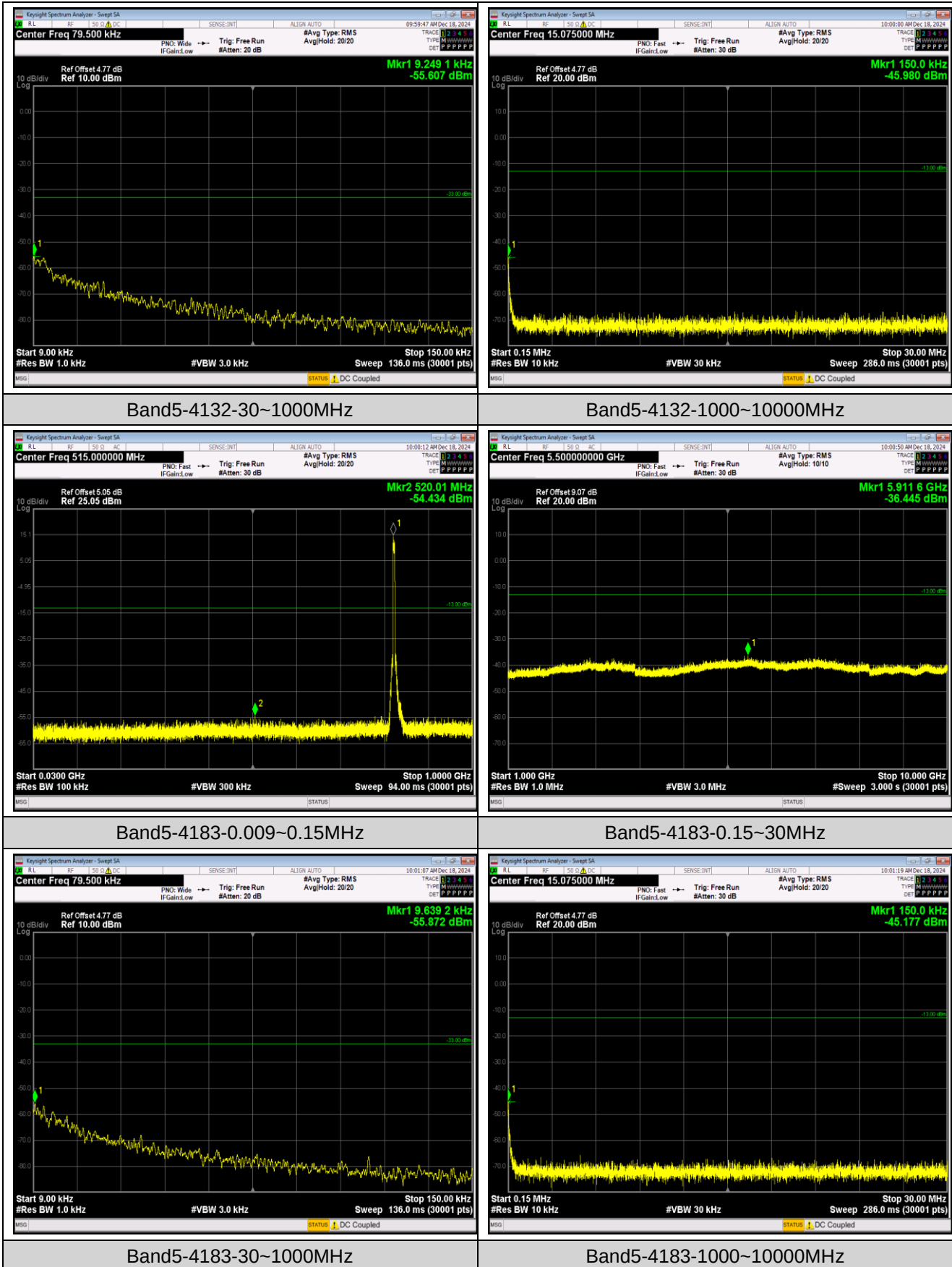
JianYan Testing Group Shenzhen Co., Ltd.

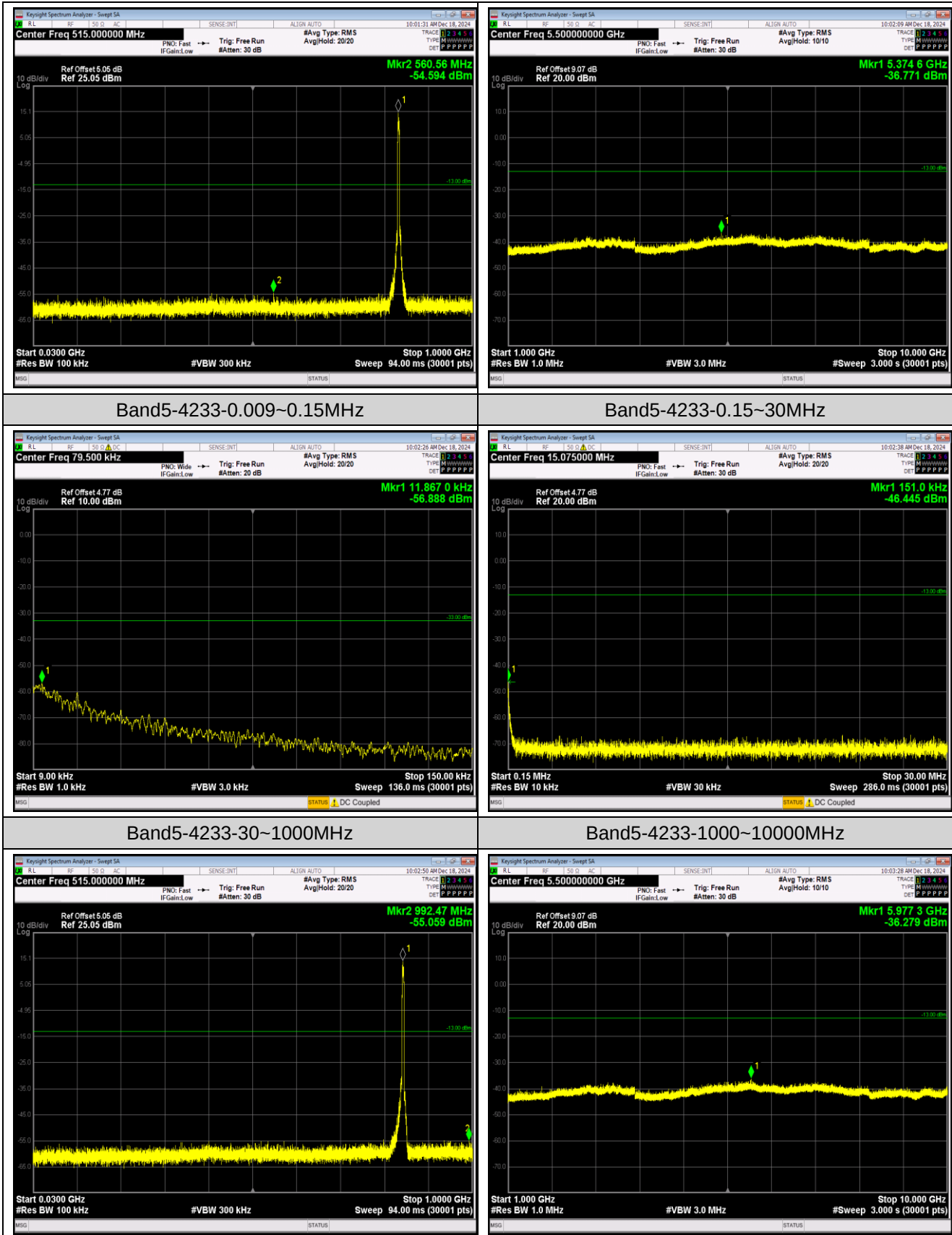
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## AppendixF:Frequency Stability

### 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       |             |        |
| 3.70                                                                                        | -30                     | -0.52           | -0.000622 | ±2.5        | Pass   |
|                                                                                             | -20                     | 1.22            | 0.001458  |             |        |
|                                                                                             | -10                     | 0.78            | 0.000932  |             |        |
|                                                                                             | 0                       | 1.34            | 0.001602  |             |        |
|                                                                                             | 10                      | 1.39            | 0.001661  |             |        |
|                                                                                             | 20                      | 1.26            | 0.001506  |             |        |
|                                                                                             | 30                      | 1.65            | 0.001972  |             |        |
|                                                                                             | 40                      | 0.06            | 0.000072  |             |        |
|                                                                                             | 50                      | 0.77            | 0.000920  |             |        |
| Voltage                                                                                     |                         |                 |           |             |        |
| Temperature<br>(℃)                                                                          | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 25                                                                                          | 3.40                    | 2.42            | 0.002893  | ±2.5        | Pass   |
|                                                                                             | 3.70                    | 1.20            | 0.001434  |             |        |
|                                                                                             | 4.20                    | 0.70            | 0.000837  |             |        |
| 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                     | 1.71            | 0.000910  | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | -20                     | 3.86            | 0.002053  |                                       |        |
|                                                                                             | -10                     | -6.26           | -0.003330 |                                       |        |
|                                                                                             | 0                       | 3.83            | 0.002037  |                                       |        |
|                                                                                             | 10                      | 6.86            | 0.003649  |                                       |        |
|                                                                                             | 20                      | -5.49           | -0.002920 |                                       |        |
|                                                                                             | 30                      | -4.58           | -0.002436 |                                       |        |
|                                                                                             | 40                      | -4.73           | -0.002516 |                                       |        |
|                                                                                             | 50                      | -3.40           | -0.001809 |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.40                    | 1.37            | 0.000729  | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | 3.70                    | -1.34           | -0.000713 |                                       |        |
|                                                                                             | 4.20                    | -1.09           | -0.000580 |                                       |        |
| 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

