

## 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    | 23.80                 | 25.40          | 33.01                | PASS    |
| Band2 | TestMode | 9262    | 23.79                 | 25.39          | 33.01                | PASS    |
| Band2 | Voice    | 9400    | 23.60                 | 25.20          | 33.01                | PASS    |
| Band2 | TestMode | 9400    | 23.64                 | 25.24          | 33.01                | PASS    |
| Band2 | Voice    | 9538    | 23.10                 | 24.70          | 33.01                | PASS    |
| Band2 | TestMode | 9538    | 23.17                 | 24.77          | 33.01                | PASS    |
| Band5 | Voice    | 4132    | 23.19                 | 16.84          | 38.45                | PASS    |
| Band5 | TestMode | 4132    | 23.23                 | 16.88          | 38.45                | PASS    |
| Band5 | Voice    | 4183    | 23.37                 | 17.02          | 38.45                | PASS    |
| Band5 | TestMode | 4183    | 23.31                 | 16.96          | 38.45                | PASS    |
| Band5 | Voice    | 4233    | 23.39                 | 17.04          | 38.45                | PASS    |
| Band5 | TestMode | 4233    | 23.38                 | 17.03          | 38.45                | PASS    |

### Test Result(HSDPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 22.87                 | 24.47          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 22.28                 | 23.88          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 22.31                 | 23.91          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 22.31                 | 23.91          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 22.69                 | 24.29          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 22.14                 | 23.74          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 22.14                 | 23.74          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 22.14                 | 23.74          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 22.17                 | 23.77          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 21.65                 | 23.25          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 21.61                 | 23.21          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 21.63                 | 23.23          | 33.01                | PASS    |
| Band5 | 4132    | 1       | 22.28                 | 15.93          | 38.5                 | PASS    |
| Band5 | 4132    | 2       | 21.71                 | 15.36          | 38.5                 | PASS    |
| Band5 | 4132    | 3       | 21.78                 | 15.43          | 38.5                 | PASS    |
| Band5 | 4132    | 4       | 21.71                 | 15.36          | 38.5                 | PASS    |
| Band5 | 4183    | 1       | 22.39                 | 16.04          | 38.5                 | PASS    |
| Band5 | 4183    | 2       | 21.85                 | 15.50          | 38.5                 | PASS    |

|       |      |   |       |       |      |      |
|-------|------|---|-------|-------|------|------|
| Band5 | 4183 | 3 | 21.82 | 15.47 | 38.5 | PASS |
| Band5 | 4183 | 4 | 21.86 | 15.51 | 38.5 | PASS |
| Band5 | 4233 | 1 | 22.45 | 16.10 | 38.5 | PASS |
| Band5 | 4233 | 2 | 21.93 | 15.58 | 38.5 | PASS |
| Band5 | 4233 | 3 | 21.96 | 15.61 | 38.5 | PASS |
| Band5 | 4233 | 4 | 21.92 | 15.57 | 38.5 | PASS |

### Test Result(HSUPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 20.83                 | 22.43          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 21.31                 | 22.91          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 21.85                 | 23.45          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 20.86                 | 22.46          | 33.01                | PASS    |
| Band2 | 9262    | 5       | 22.84                 | 24.44          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 20.64                 | 22.24          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 21.12                 | 22.72          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 21.62                 | 23.22          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 20.62                 | 22.22          | 33.01                | PASS    |
| Band2 | 9400    | 5       | 22.62                 | 24.22          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 20.12                 | 21.72          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 20.58                 | 22.18          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 21.08                 | 22.68          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 20.13                 | 21.73          | 33.01                | PASS    |
| Band2 | 9538    | 5       | 22.11                 | 23.71          | 33.01                | PASS    |
| Band5 | 4132    | 1       | 20.36                 | 14.01          | 38.5                 | PASS    |
| Band5 | 4132    | 2       | 20.77                 | 14.42          | 38.5                 | PASS    |
| Band5 | 4132    | 3       | 21.24                 | 14.89          | 38.5                 | PASS    |
| Band5 | 4132    | 4       | 20.35                 | 14.00          | 38.5                 | PASS    |
| Band5 | 4132    | 5       | 22.27                 | 15.92          | 38.5                 | PASS    |
| Band5 | 4183    | 1       | 20.42                 | 14.07          | 38.5                 | PASS    |
| Band5 | 4183    | 2       | 20.86                 | 14.51          | 38.5                 | PASS    |
| Band5 | 4183    | 3       | 21.32                 | 14.97          | 38.5                 | PASS    |
| Band5 | 4183    | 4       | 20.45                 | 14.10          | 38.5                 | PASS    |
| Band5 | 4183    | 5       | 22.37                 | 16.02          | 38.5                 | PASS    |
| Band5 | 4233    | 1       | 20.49                 | 14.14          | 38.5                 | PASS    |
| Band5 | 4233    | 2       | 20.96                 | 14.61          | 38.5                 | PASS    |
| Band5 | 4233    | 3       | 21.38                 | 15.03          | 38.5                 | PASS    |
| Band5 | 4233    | 4       | 20.49                 | 14.14          | 38.5                 | PASS    |
| Band5 | 4233    | 5       | 22.45                 | 16.10          | 38.5                 | PASS    |

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

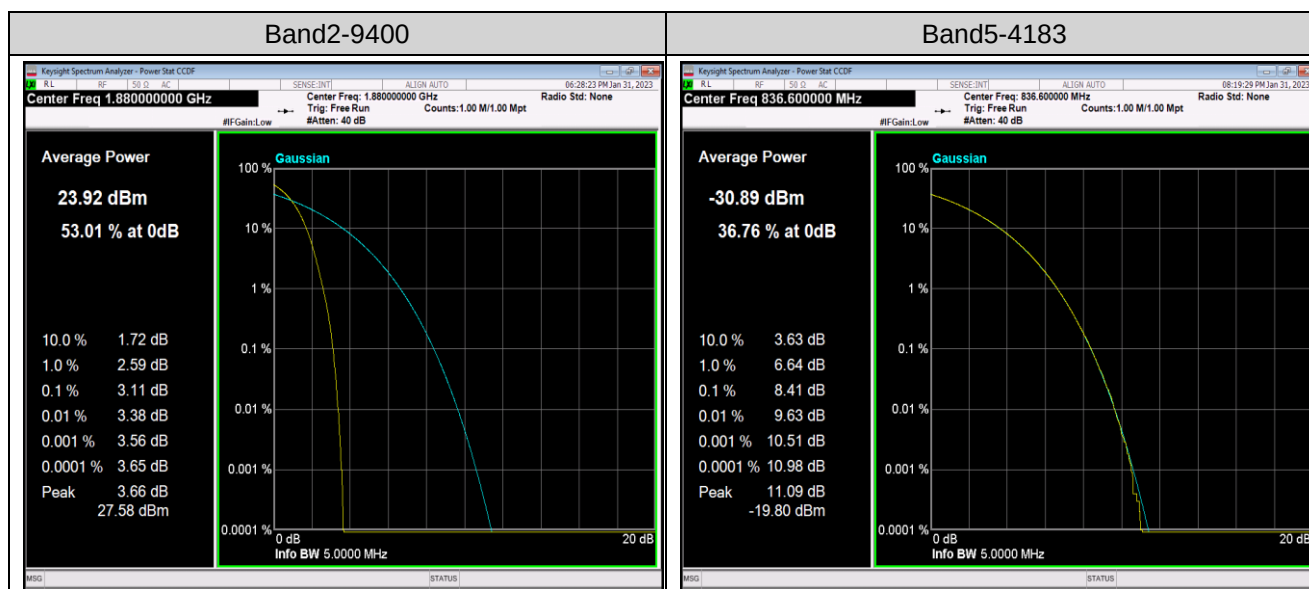
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 3.11                      | 13        | PASS    |
| Band5 | 4183    | 8.41                      | 13        | PASS    |

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

### Test Graphs(WCDMA)

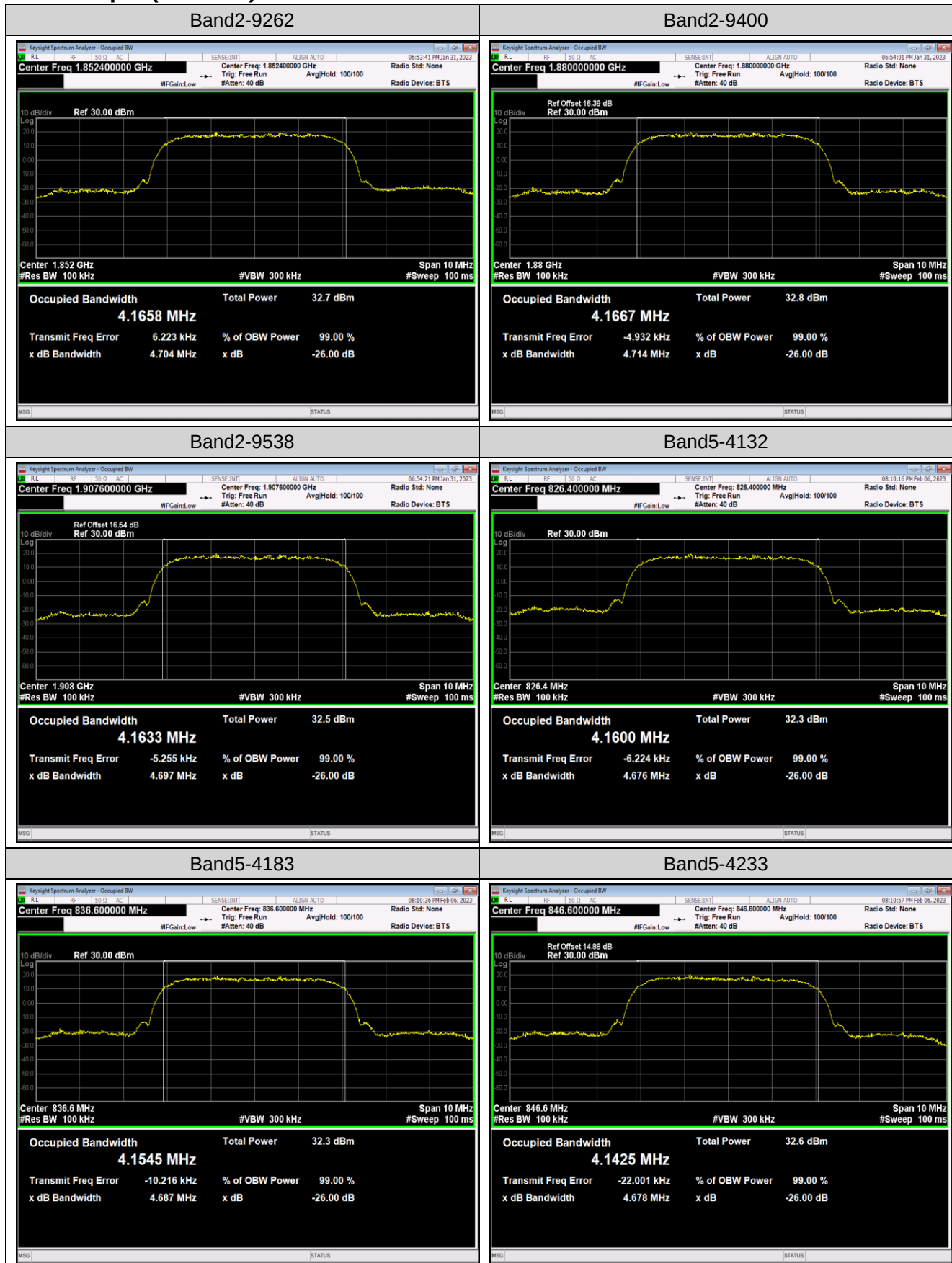


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9262    | 4.1658                      | 4.704                   | ---        | PASS    |
| Band2 | 9400    | 4.1667                      | 4.714                   | ---        | PASS    |
| Band2 | 9538    | 4.1633                      | 4.697                   | ---        | PASS    |
| Band5 | 4132    | 4.1600                      | 4.676                   | ---        | PASS    |
| Band5 | 4183    | 4.1545                      | 4.687                   | ---        | PASS    |
| Band5 | 4233    | 4.1425                      | 4.678                   | ---        | PASS    |

# Test Graphs(WCDMA)

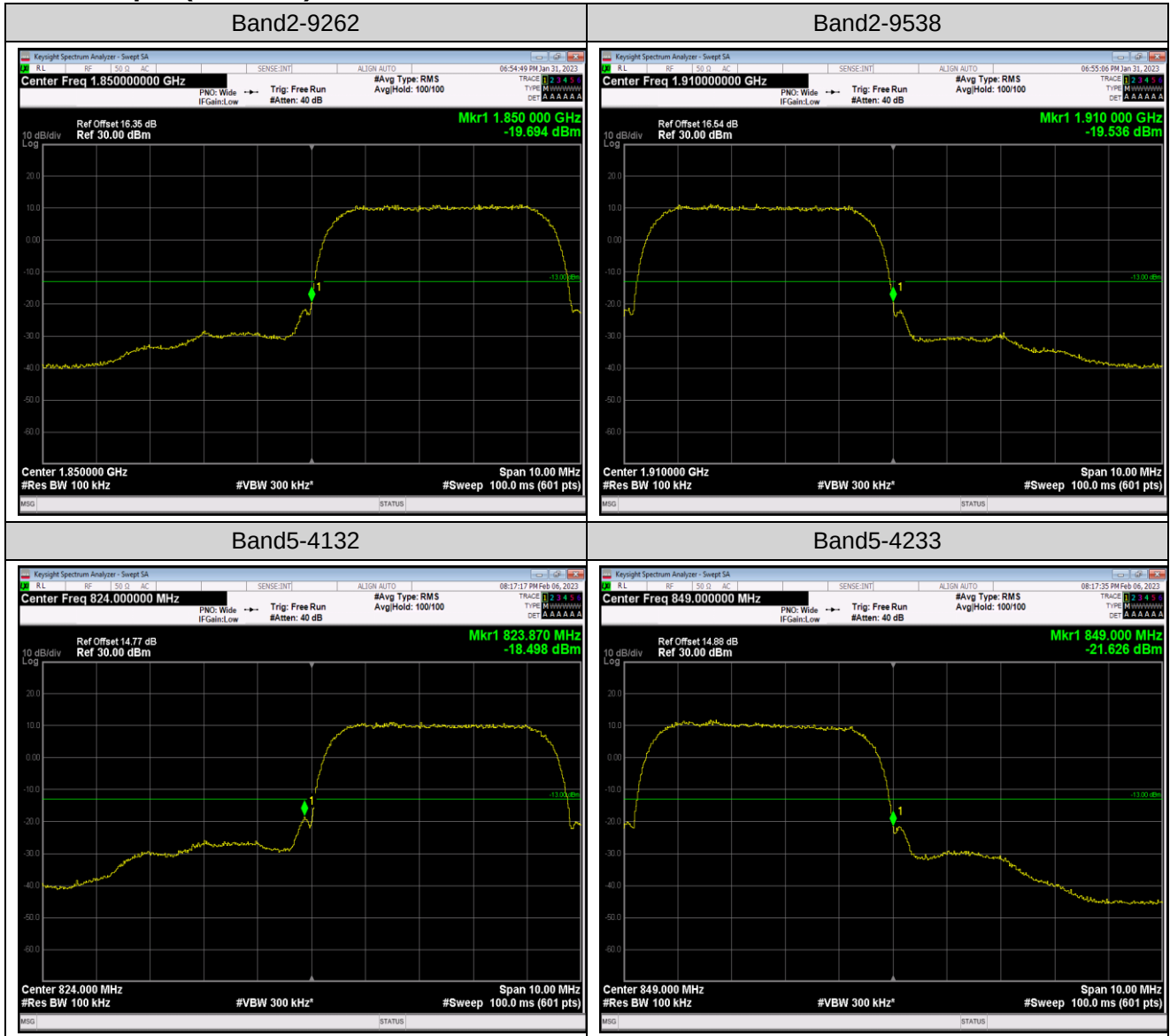


## AppendixD:Band Edge

### Test Result(WCDMA)

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1850.00         | -19.69       | -13        | PASS    |
| Band2 | 9538    | 1910.00         | -19.54       | -13        | PASS    |
| Band5 | 4132    | 823.87          | -18.50       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -21.63       | -13        | PASS    |

# Test Graphs(WCDMA)

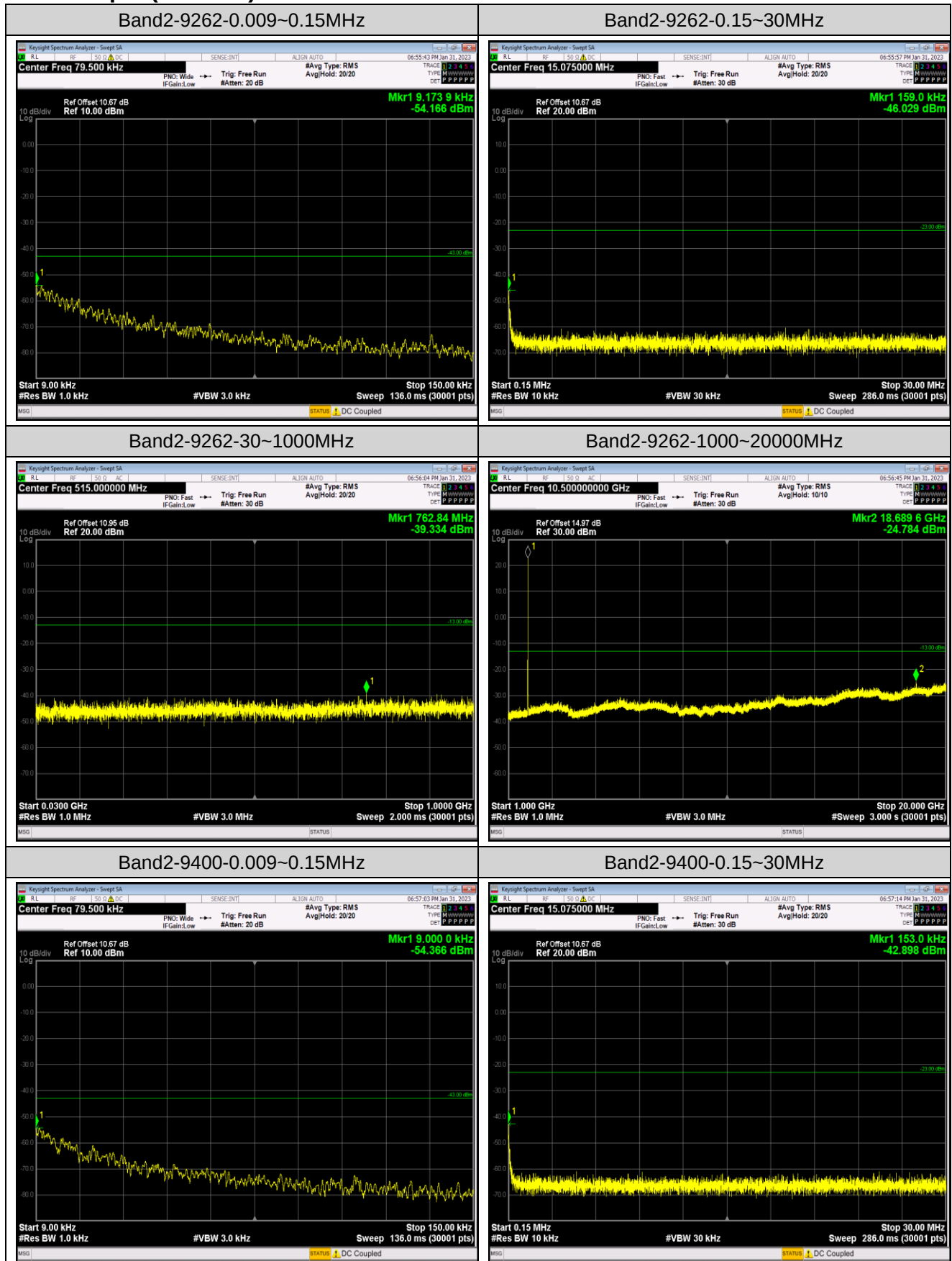


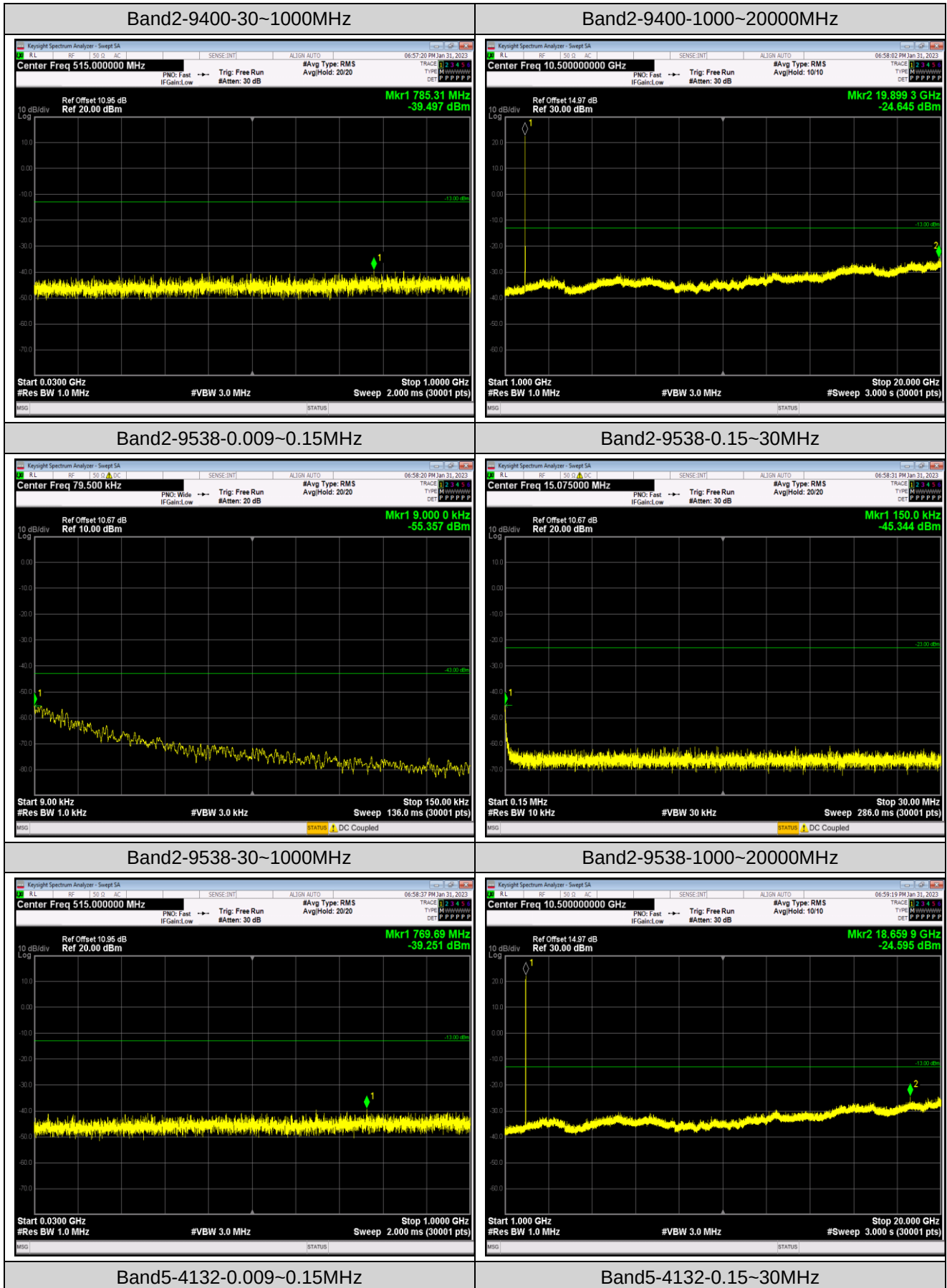
## AppendixE:Conducted SpuriousEmission

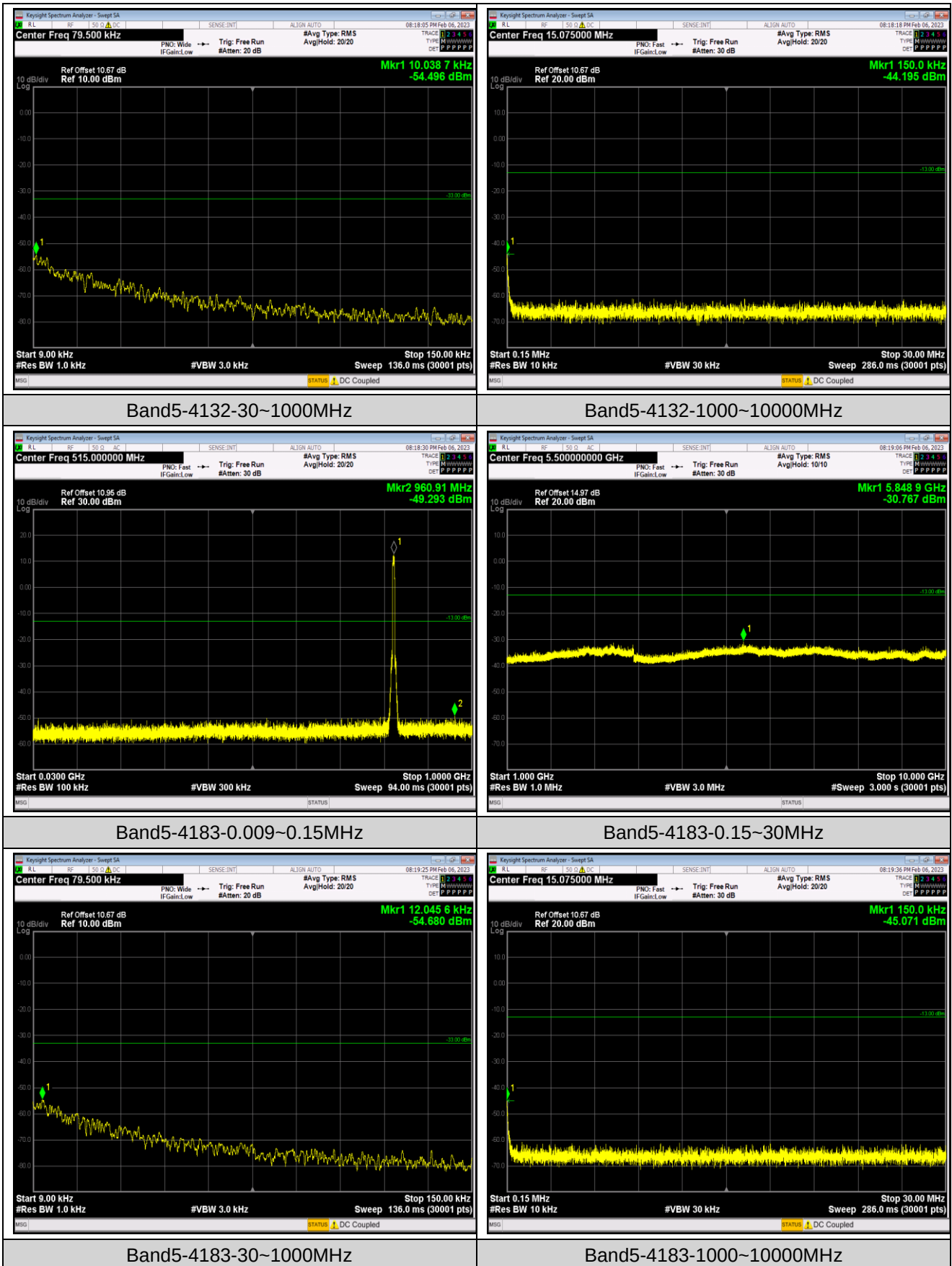
### Test Result(WCDMA)

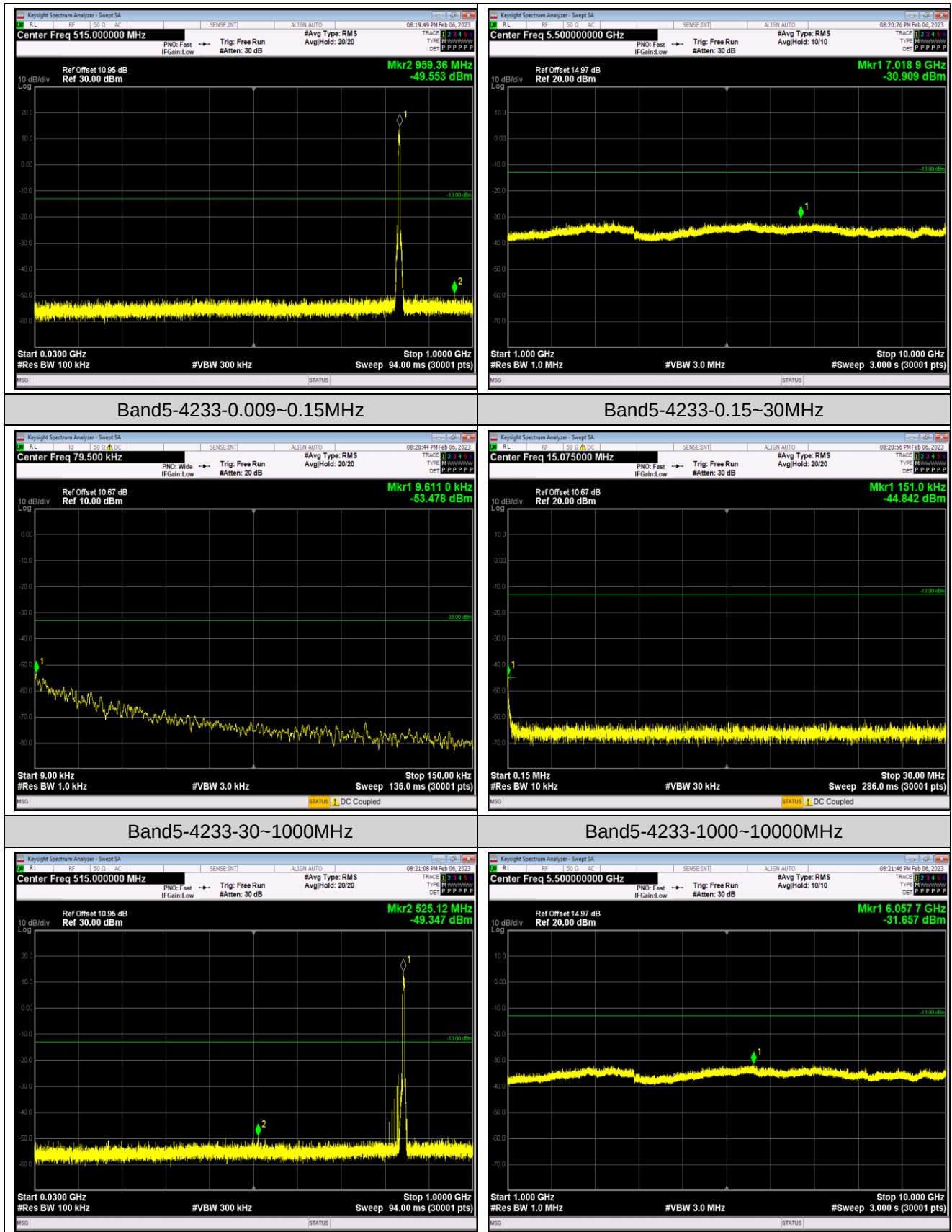
| Band  | Channel | Frequency Range (Mhz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262    | 0.009~0.15MHz         | 0.01            | -54.17       | -43         | PASS    |
| Band2 | 9262    | 0.15~30MHz            | 0.16            | -46.03       | -23         | PASS    |
| Band2 | 9262    | 30~1000MHz            | 762.84          | -39.33       | -13         | PASS    |
| Band2 | 9262    | 1000~20000MHz         | 18689.63        | -24.78       | -13         | PASS    |
| Band2 | 9400    | 0.009~0.15MHz         | 0.01            | -54.37       | -43         | PASS    |
| Band2 | 9400    | 0.15~30MHz            | 0.15            | -42.9        | -23         | PASS    |
| Band2 | 9400    | 30~1000MHz            | 785.31          | -39.5        | -13         | PASS    |
| Band2 | 9400    | 1000~20000MHz         | 19899.3         | -24.65       | -13         | PASS    |
| Band2 | 9538    | 0.009~0.15MHz         | 0.01            | -55.36       | -43         | PASS    |
| Band2 | 9538    | 0.15~30MHz            | 0.15            | -45.34       | -23         | PASS    |
| Band2 | 9538    | 30~1000MHz            | 769.69          | -39.25       | -13         | PASS    |
| Band2 | 9538    | 1000~20000MHz         | 18659.87        | -24.6        | -13         | PASS    |
| Band5 | 4132    | 0.009~0.15MHz         | 0.01            | -54.5        | -33         | PASS    |
| Band5 | 4132    | 0.15~30MHz            | 0.15            | -44.2        | -13         | PASS    |
| Band5 | 4132    | 30~1000MHz            | 960.91          | -49.29       | -13         | PASS    |
| Band5 | 4132    | 1000~10000MHz         | 5848.9          | -30.77       | -13         | PASS    |
| Band5 | 4183    | 0.009~0.15MHz         | 0.01            | -54.68       | -33         | PASS    |
| Band5 | 4183    | 0.15~30MHz            | 0.15            | -45.07       | -13         | PASS    |
| Band5 | 4183    | 30~1000MHz            | 959.36          | -49.55       | -13         | PASS    |
| Band5 | 4183    | 1000~10000MHz         | 7018.9          | -30.91       | -13         | PASS    |
| Band5 | 4233    | 0.009~0.15MHz         | 0.01            | -53.48       | -33         | PASS    |
| Band5 | 4233    | 0.15~30MHz            | 0.15            | -44.84       | -13         | PASS    |
| Band5 | 4233    | 30~1000MHz            | 525.12          | -49.35       | -13         | PASS    |
| Band5 | 4233    | 1000~10000MHz         | 6057.7          | -31.66       | -13         | PASS    |

# Test Graphs(WCDMA)









## 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                     | -11.84          | -0.014153 | ±2.5        | Pass   |
|                                                                                             | -20                     | -11.37          | -0.013591 |             |        |
|                                                                                             | -10                     | -10.97          | -0.013113 |             |        |
|                                                                                             | 0                       | -11.85          | -0.014164 |             |        |
|                                                                                             | 10                      | -11.58          | -0.013842 |             |        |
|                                                                                             | 20                      | -11.85          | -0.014164 |             |        |
|                                                                                             | 30                      | -11.33          | -0.013543 |             |        |
|                                                                                             | 40                      | -10.73          | -0.012826 |             |        |
|                                                                                             | 50                      | -10.31          | -0.012324 |             |        |
| Voltage                                                                                     |                         |                 |           |             |        |
| Temperature<br>(℃)                                                                          | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 25                                                                                          | 3.15                    | -13.05          | -0.015599 | ±2.5        | Pass   |
|                                                                                             | 3.70                    | -11.51          | -0.013758 |             |        |
|                                                                                             | 4.20                    | -12.25          | -0.014643 |             |        |
| 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=1880MHz channel=9400          |                         |                 |           |                                       |        |
|---------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|---------------------------------------|--------|
| Temperature                                                                                 |                         |                 |           |                                       |        |
| Power supplied<br>(Vdc)                                                                     | Temperature<br>(°C)     | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 3.70                                                                                        | -30                     | -14.08          | -0.007489 | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | -20                     | -10.16          | -0.005404 |                                       |        |
|                                                                                             | -10                     | -11.43          | -0.006080 |                                       |        |
|                                                                                             | 0                       | -12.09          | -0.006431 |                                       |        |
|                                                                                             | 10                      | -10.31          | -0.005484 |                                       |        |
|                                                                                             | 20                      | -11.04          | -0.005872 |                                       |        |
|                                                                                             | 30                      | -9.44           | -0.005021 |                                       |        |
|                                                                                             | 40                      | -9.43           | -0.005016 |                                       |        |
|                                                                                             | 50                      | -7.28           | -0.003872 |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.15                    | -15.03          | -0.007995 | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | 3.70                    | -16.19          | -0.008612 |                                       |        |
|                                                                                             | 4.20                    | -13.16          | -0.007000 |                                       |        |
| 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

