

## 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    | 23.63                 | 23.84          | 33.01                | PASS    |
| Band2 | TestMode | 9262    | 23.68                 | 23.89          | 33.01                | PASS    |
| Band2 | TestMode | 9400    | 23.97                 | 24.18          | 33.01                | PASS    |
| Band2 | Voice    | 9400    | 23.95                 | 24.16          | 33.01                | PASS    |
| Band2 | TestMode | 9538    | 23.80                 | 24.01          | 33.01                | PASS    |
| Band2 | Voice    | 9538    | 23.75                 | 23.96          | 33.01                | PASS    |
| Band4 | Voice    | 1312    | 23.36                 | 23.58          | 30.00                | PASS    |
| Band4 | TestMode | 1312    | 23.40                 | 23.62          | 30.00                | PASS    |
| Band4 | Voice    | 1413    | 23.66                 | 23.88          | 30.00                | PASS    |
| Band4 | TestMode | 1413    | 23.72                 | 23.94          | 30.00                | PASS    |
| Band4 | TestMode | 1513    | 23.57                 | 23.79          | 30.00                | PASS    |
| Band4 | Voice    | 1513    | 23.49                 | 23.71          | 30.00                | PASS    |
| Band5 | Voice    | 4132    | 23.63                 | 20.97          | 38.45                | PASS    |
| Band5 | TestMode | 4132    | 23.65                 | 20.99          | 38.45                | PASS    |
| Band5 | TestMode | 4183    | 23.87                 | 21.21          | 38.45                | PASS    |
| Band5 | Voice    | 4183    | 23.88                 | 21.22          | 38.45                | PASS    |
| Band5 | Voice    | 4233    | 23.72                 | 21.06          | 38.45                | PASS    |
| Band5 | TestMode | 4233    | 23.71                 | 21.05          | 38.45                | PASS    |

### Test Result(HSDPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 23.17                 | 23.38          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 22.89                 | 23.1           | 33.01                | PASS    |
| Band2 | 9262    | 3       | 22.55                 | 22.76          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 22.58                 | 22.79          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 23.14                 | 23.35          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 22.62                 | 22.83          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 22.39                 | 22.6           | 33.01                | PASS    |
| Band2 | 9400    | 4       | 22.55                 | 22.76          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 23.05                 | 23.26          | 33.01                | PASS    |
| Band2 | 9538    | 2       | 22.77                 | 22.98          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 22.52                 | 22.73          | 33.01                | PASS    |
| Band2 | 9538    | 4       | 22.51                 | 22.72          | 33.01                | PASS    |

|       |      |   |       |       |       |      |
|-------|------|---|-------|-------|-------|------|
| Band4 | 1312 | 1 | 22.60 | 22.82 | 30.00 | PASS |
| Band4 | 1312 | 2 | 22.81 | 23.03 | 30.00 | PASS |
| Band4 | 1312 | 3 | 22.77 | 22.99 | 30.00 | PASS |
| Band4 | 1312 | 4 | 22.79 | 23.01 | 30.00 | PASS |
| Band4 | 1413 | 1 | 22.85 | 23.07 | 30.00 | PASS |
| Band4 | 1413 | 2 | 22.90 | 23.12 | 30.00 | PASS |
| Band4 | 1413 | 3 | 22.87 | 23.09 | 30.00 | PASS |
| Band4 | 1413 | 4 | 22.90 | 23.12 | 30.00 | PASS |
| Band4 | 1513 | 1 | 22.60 | 22.82 | 30.00 | PASS |
| Band4 | 1513 | 2 | 22.68 | 22.9  | 30.00 | PASS |
| Band4 | 1513 | 3 | 22.63 | 22.85 | 30.00 | PASS |
| Band4 | 1513 | 4 | 22.67 | 22.89 | 30.00 | PASS |
| Band5 | 4132 | 1 | 22.79 | 20.13 | 38.5  | PASS |
| Band5 | 4132 | 2 | 22.66 | 20    | 38.5  | PASS |
| Band5 | 4132 | 3 | 22.17 | 19.51 | 38.5  | PASS |
| Band5 | 4132 | 4 | 22.19 | 19.53 | 38.5  | PASS |
| Band5 | 4183 | 1 | 23.03 | 20.37 | 38.5  | PASS |
| Band5 | 4183 | 2 | 22.90 | 20.24 | 38.5  | PASS |
| Band5 | 4183 | 3 | 22.38 | 19.72 | 38.5  | PASS |
| Band5 | 4183 | 4 | 22.46 | 19.8  | 38.5  | PASS |
| Band5 | 4233 | 1 | 22.48 | 19.82 | 38.5  | PASS |
| Band5 | 4233 | 2 | 22.29 | 19.63 | 38.5  | PASS |
| Band5 | 4233 | 3 | 21.89 | 19.23 | 38.5  | PASS |
| Band5 | 4233 | 4 | 21.89 | 19.23 | 38.5  | PASS |

## Test Result(HSUPA)

| Band  | Channel | SubTest | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|-------|---------|---------|-----------------------|----------------|----------------------|---------|
| Band2 | 9262    | 1       | 20.68                 | 20.89          | 33.01                | PASS    |
| Band2 | 9262    | 2       | 21.25                 | 21.46          | 33.01                | PASS    |
| Band2 | 9262    | 3       | 21.22                 | 21.43          | 33.01                | PASS    |
| Band2 | 9262    | 4       | 21.34                 | 21.55          | 33.01                | PASS    |
| Band2 | 9262    | 5       | 23.15                 | 23.36          | 33.01                | PASS    |
| Band2 | 9400    | 1       | 20.88                 | 21.09          | 33.01                | PASS    |
| Band2 | 9400    | 2       | 21.22                 | 21.43          | 33.01                | PASS    |
| Band2 | 9400    | 3       | 21.18                 | 21.39          | 33.01                | PASS    |
| Band2 | 9400    | 4       | 21.38                 | 21.59          | 33.01                | PASS    |
| Band2 | 9400    | 5       | 22.92                 | 23.13          | 33.01                | PASS    |
| Band2 | 9538    | 1       | 20.89                 | 21.1           | 33.01                | PASS    |
| Band2 | 9538    | 2       | 21.21                 | 21.42          | 33.01                | PASS    |
| Band2 | 9538    | 3       | 21.15                 | 21.36          | 33.01                | PASS    |

|       |      |   |       |       |       |      |
|-------|------|---|-------|-------|-------|------|
| Band2 | 9538 | 4 | 21.40 | 21.61 | 33.01 | PASS |
| Band2 | 9538 | 5 | 23.09 | 23.3  | 33.01 | PASS |
| Band4 | 1312 | 1 | 22.63 | 22.85 | 30.00 | PASS |
| Band4 | 1312 | 2 | 22.71 | 22.93 | 30.00 | PASS |
| Band4 | 1312 | 3 | 22.29 | 22.51 | 30.00 | PASS |
| Band4 | 1312 | 4 | 22.74 | 22.96 | 30.00 | PASS |
| Band4 | 1312 | 5 | 22.82 | 23.04 | 30.00 | PASS |
| Band4 | 1413 | 1 | 22.82 | 23.04 | 30.00 | PASS |
| Band4 | 1413 | 2 | 22.86 | 23.08 | 30.00 | PASS |
| Band4 | 1413 | 3 | 22.61 | 22.83 | 30.00 | PASS |
| Band4 | 1413 | 4 | 22.90 | 23.12 | 30.00 | PASS |
| Band4 | 1413 | 5 | 22.90 | 23.12 | 30.00 | PASS |
| Band4 | 1513 | 1 | 22.65 | 22.87 | 30.00 | PASS |
| Band4 | 1513 | 2 | 22.67 | 22.89 | 30.00 | PASS |
| Band4 | 1513 | 3 | 22.43 | 22.65 | 30.00 | PASS |
| Band4 | 1513 | 4 | 22.72 | 22.94 | 30.00 | PASS |
| Band4 | 1513 | 5 | 22.66 | 22.88 | 30.00 | PASS |
| Band5 | 4132 | 1 | 21.53 | 18.87 | 38.5  | PASS |
| Band5 | 4132 | 2 | 21.72 | 19.06 | 38.5  | PASS |
| Band5 | 4132 | 3 | 21.45 | 18.79 | 38.5  | PASS |
| Band5 | 4132 | 4 | 21.19 | 18.53 | 38.5  | PASS |
| Band5 | 4132 | 5 | 22.67 | 20.01 | 38.5  | PASS |
| Band5 | 4183 | 1 | 21.62 | 18.96 | 38.5  | PASS |
| Band5 | 4183 | 2 | 21.79 | 19.13 | 38.5  | PASS |
| Band5 | 4183 | 3 | 21.53 | 18.87 | 38.5  | PASS |
| Band5 | 4183 | 4 | 21.25 | 18.59 | 38.5  | PASS |
| Band5 | 4183 | 5 | 22.93 | 20.27 | 38.5  | PASS |
| Band5 | 4233 | 1 | 21.30 | 18.64 | 38.5  | PASS |
| Band5 | 4233 | 2 | 21.51 | 18.85 | 38.5  | PASS |
| Band5 | 4233 | 3 | 21.23 | 18.57 | 38.5  | PASS |
| Band5 | 4233 | 4 | 20.96 | 18.3  | 38.5  | PASS |
| Band5 | 4233 | 5 | 22.37 | 19.71 | 38.5  | PASS |

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

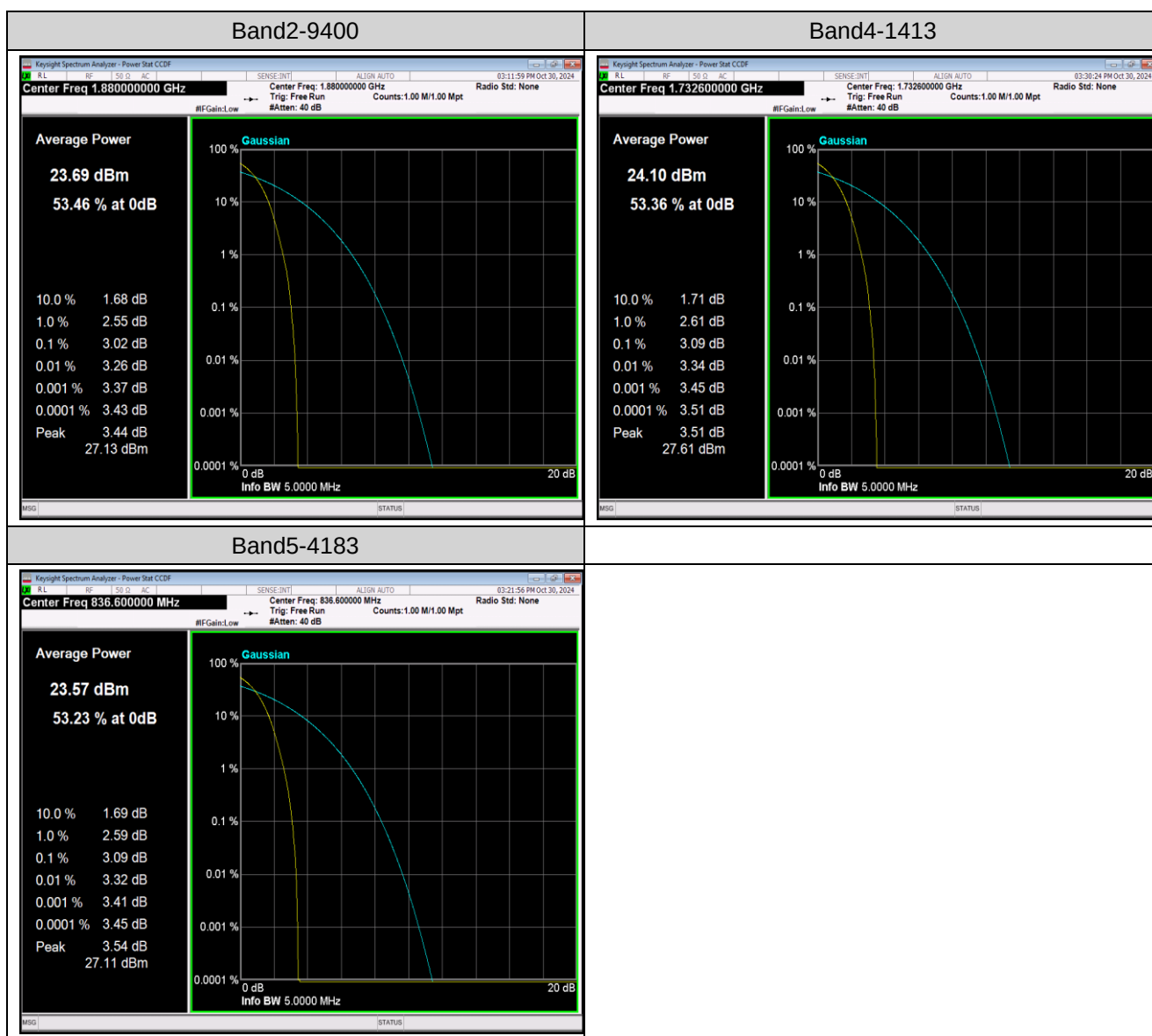
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 3.02                      | 13        | PASS    |
| Band4 | 1413    | 3.09                      | 13        | PASS    |
| Band5 | 4183    | 3.09                      | 13        | PASS    |

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

### Test Graphs(WCDMA)

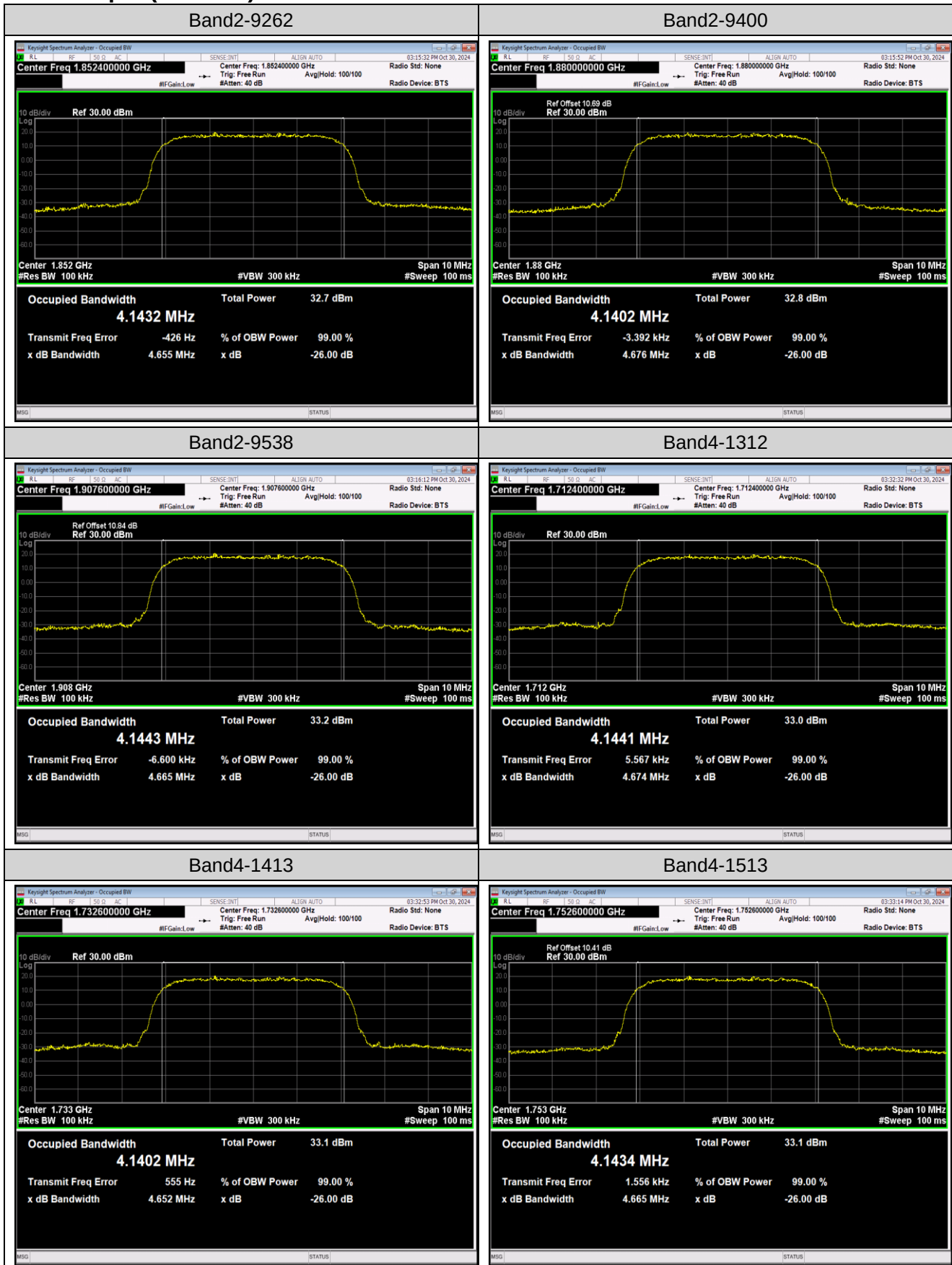


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9262    | 4.1432                      | 4.655                   | ---        | PASS    |
| Band2 | 9400    | 4.1402                      | 4.676                   | ---        | PASS    |
| Band2 | 9538    | 4.1443                      | 4.665                   | ---        | PASS    |
| Band4 | 1312    | 4.1441                      | 4.674                   | ---        | PASS    |
| Band4 | 1413    | 4.1402                      | 4.652                   | ---        | PASS    |
| Band4 | 1513    | 4.1434                      | 4.665                   | ---        | PASS    |
| Band5 | 4132    | 4.1378                      | 4.667                   | ---        | PASS    |
| Band5 | 4183    | 4.1462                      | 4.660                   | ---        | PASS    |
| Band5 | 4233    | 4.1464                      | 4.664                   | ---        | PASS    |

## Test Graphs(WCDMA)





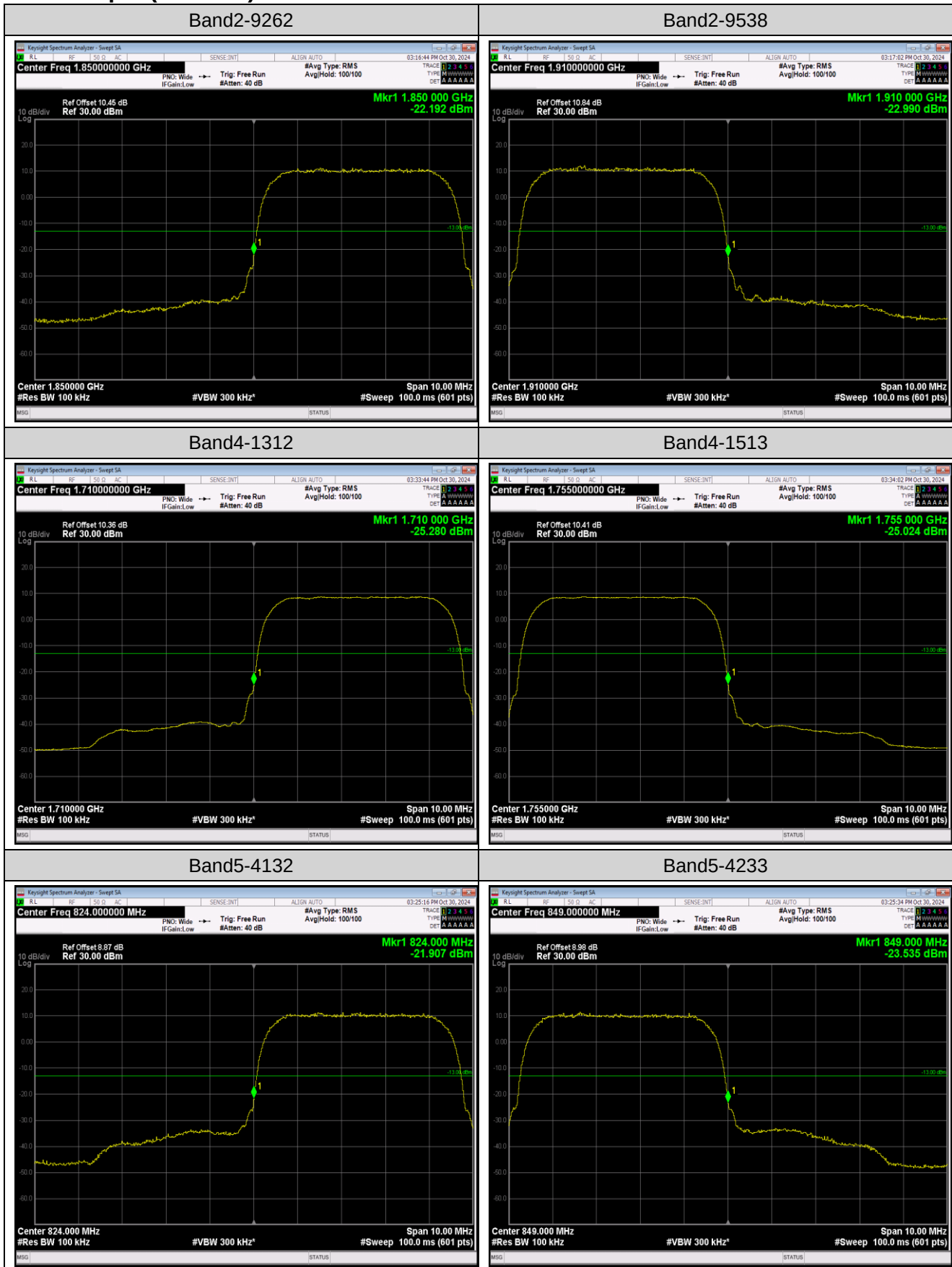
## AppendixD:Band Edge

### Test Result(WCDMA)

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1850.00         | -22.19       | -13        | PASS    |
| Band2 | 9538    | 1910.00         | -22.99       | -13        | PASS    |
| Band4 | 1312    | 1710.00         | -25.28       | -13        | PASS    |
| Band4 | 1513    | 1755.00         | -25.02       | -13        | PASS    |
| Band5 | 4132    | 824.00          | -21.91       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -23.53       | -13        | PASS    |



## Test Graphs(WCDMA)



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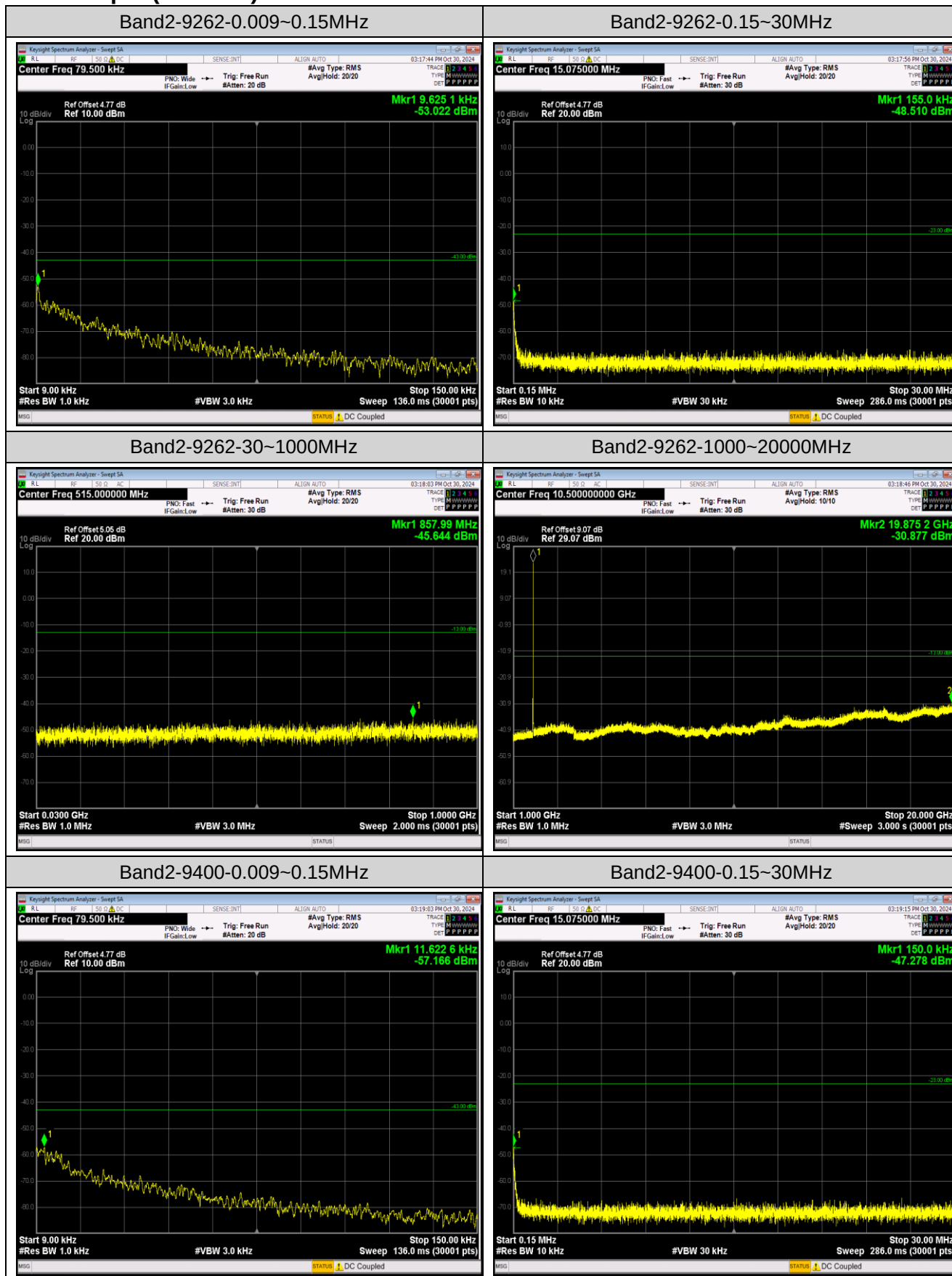
Project No.: JYTSZR2410039

## 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            | -53.02       | -43         | PASS    |
| Band2 | 9262    | 0.15~30MHz            | 0.15            | -48.51       | -23         | PASS    |
| Band2 | 9262    | 30~1000MHz            | 857.99          | -45.64       | -13         | PASS    |
| Band2 | 9262    | 1000~20000MHz         | 19875.23        | -30.88       | -13         | PASS    |
| Band2 | 9400    | 0.009~0.15MHz         | 0.01            | -57.17       | -43         | PASS    |
| Band2 | 9400    | 0.15~30MHz            | 0.15            | -47.28       | -23         | PASS    |
| Band2 | 9400    | 30~1000MHz            | 708.55          | -46.08       | -13         | PASS    |
| Band2 | 9400    | 1000~20000MHz         | 19795.43        | -30.71       | -13         | PASS    |
| Band2 | 9538    | 0.009~0.15MHz         | 0.01            | -54.76       | -43         | PASS    |
| Band2 | 9538    | 0.15~30MHz            | 0.15            | -47.69       | -23         | PASS    |
| Band2 | 9538    | 30~1000MHz            | 877.75          | -45.63       | -13         | PASS    |
| Band2 | 9538    | 1000~20000MHz         | 19955.67        | -30.77       | -13         | PASS    |
| Band4 | 1312    | 0.009~0.15MHz         | 0.01            | -54.96       | -43         | PASS    |
| Band4 | 1312    | 0.15~30MHz            | 0.15            | -48.26       | -23         | PASS    |
| Band4 | 1312    | 30~1000MHz            | 501.03          | -45.81       | -13         | PASS    |
| Band4 | 1312    | 1000~20000MHz         | 19865.1         | -30.54       | -13         | PASS    |
| Band4 | 1413    | 0.009~0.15MHz         | 0.01            | -57.42       | -43         | PASS    |
| Band4 | 1413    | 0.15~30MHz            | 0.15            | -48.57       | -23         | PASS    |
| Band4 | 1413    | 30~1000MHz            | 974.52          | -45.27       | -13         | PASS    |
| Band4 | 1413    | 1000~20000MHz         | 19947.43        | -30.04       | -13         | PASS    |
| Band4 | 1513    | 0.009~0.15MHz         | 0.01            | -54.98       | -43         | PASS    |
| Band4 | 1513    | 0.15~30MHz            | 0.16            | -46.84       | -23         | PASS    |
| Band4 | 1513    | 30~1000MHz            | 529.36          | -44.65       | -13         | PASS    |
| Band4 | 1513    | 1000~20000MHz         | 19966.43        | -30.49       | -13         | PASS    |
| Band5 | 4132    | 0.009~0.15MHz         | 0.01            | -55.4        | -33         | PASS    |
| Band5 | 4132    | 0.15~30MHz            | 0.16            | -45.79       | -13         | PASS    |
| Band5 | 4132    | 30~1000MHz            | 956.32          | -54.57       | -13         | PASS    |
| Band5 | 4132    | 1000~10000MHz         | 3273.4          | -37.44       | -13         | PASS    |
| Band5 | 4183    | 0.009~0.15MHz         | 0.01            | -55.15       | -33         | PASS    |
| Band5 | 4183    | 0.15~30MHz            | 0.15            | -44.88       | -13         | PASS    |
| Band5 | 4183    | 30~1000MHz            | 529.91          | -54.42       | -13         | PASS    |
| Band5 | 4183    | 1000~10000MHz         | 7268.5          | -37.53       | -13         | PASS    |
| Band5 | 4233    | 0.009~0.15MHz         | 0.01            | -56.14       | -33         | PASS    |
| Band5 | 4233    | 0.15~30MHz            | 0.15            | -47.14       | -13         | PASS    |
| Band5 | 4233    | 30~1000MHz            | 732.83          | -55.13       | -13         | PASS    |
| Band5 | 4233    | 1000~10000MHz         | 3046.3          | -37.26       | -13         | PASS    |

## Test Graphs(WCDMA)

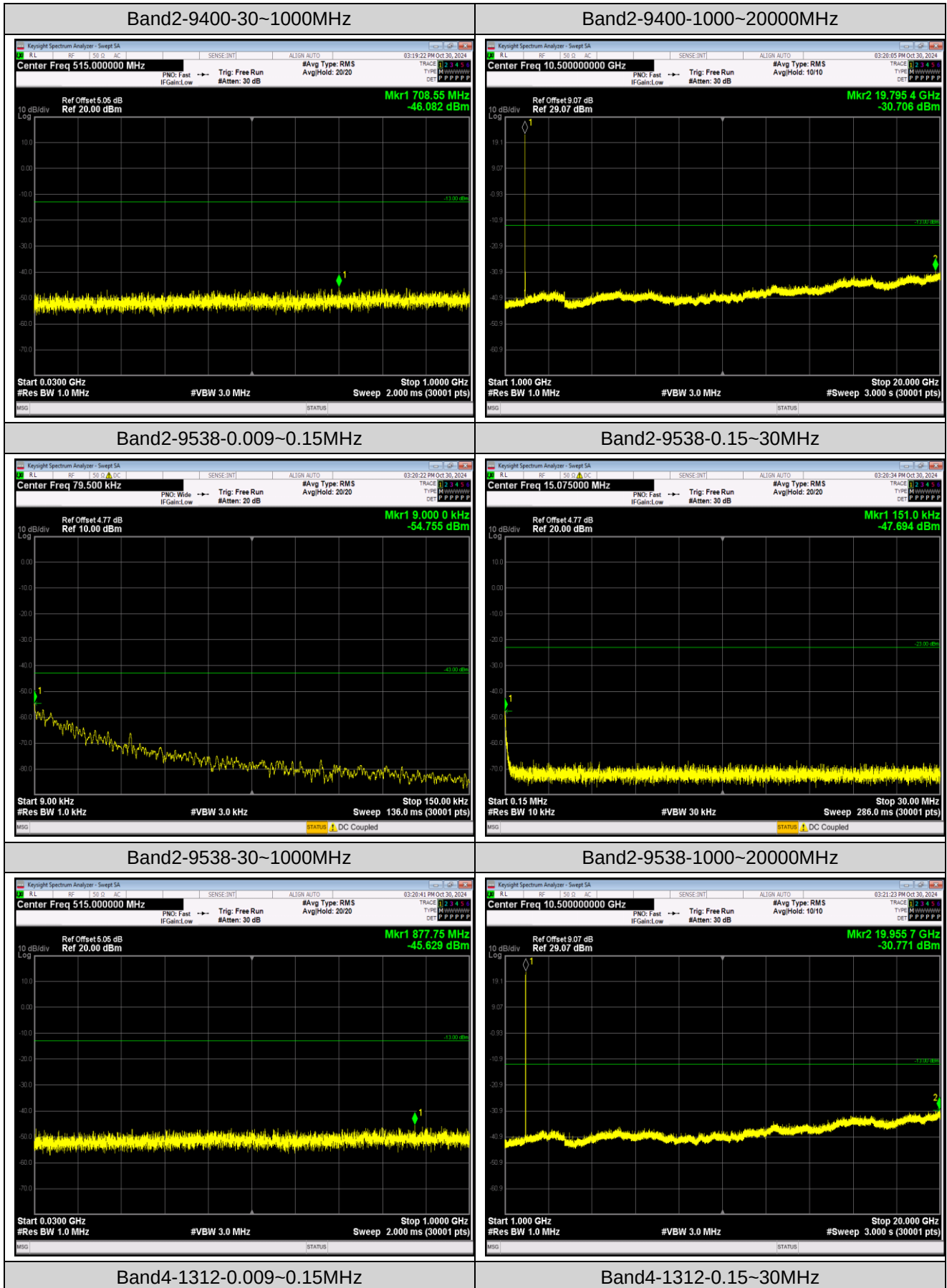


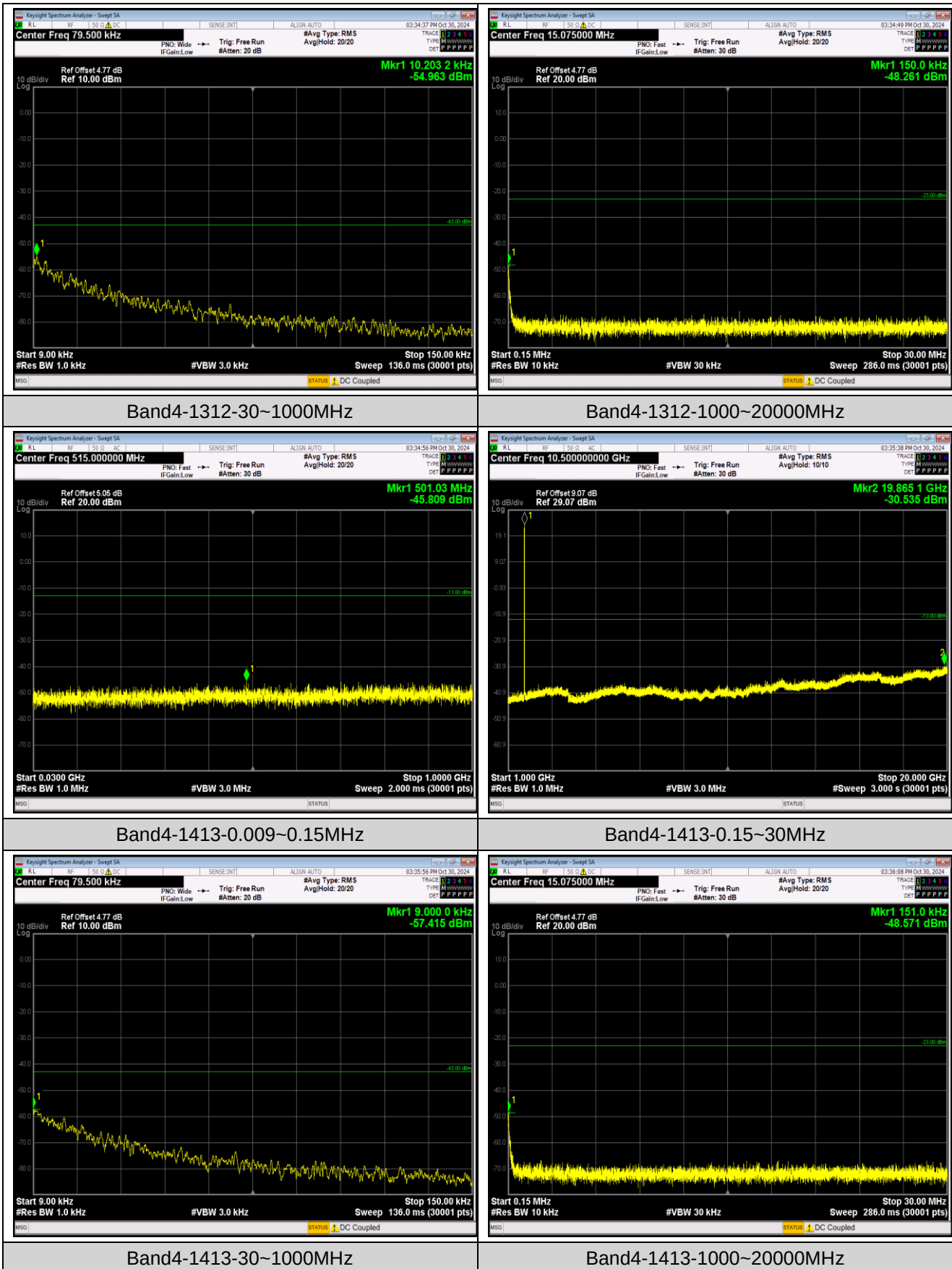
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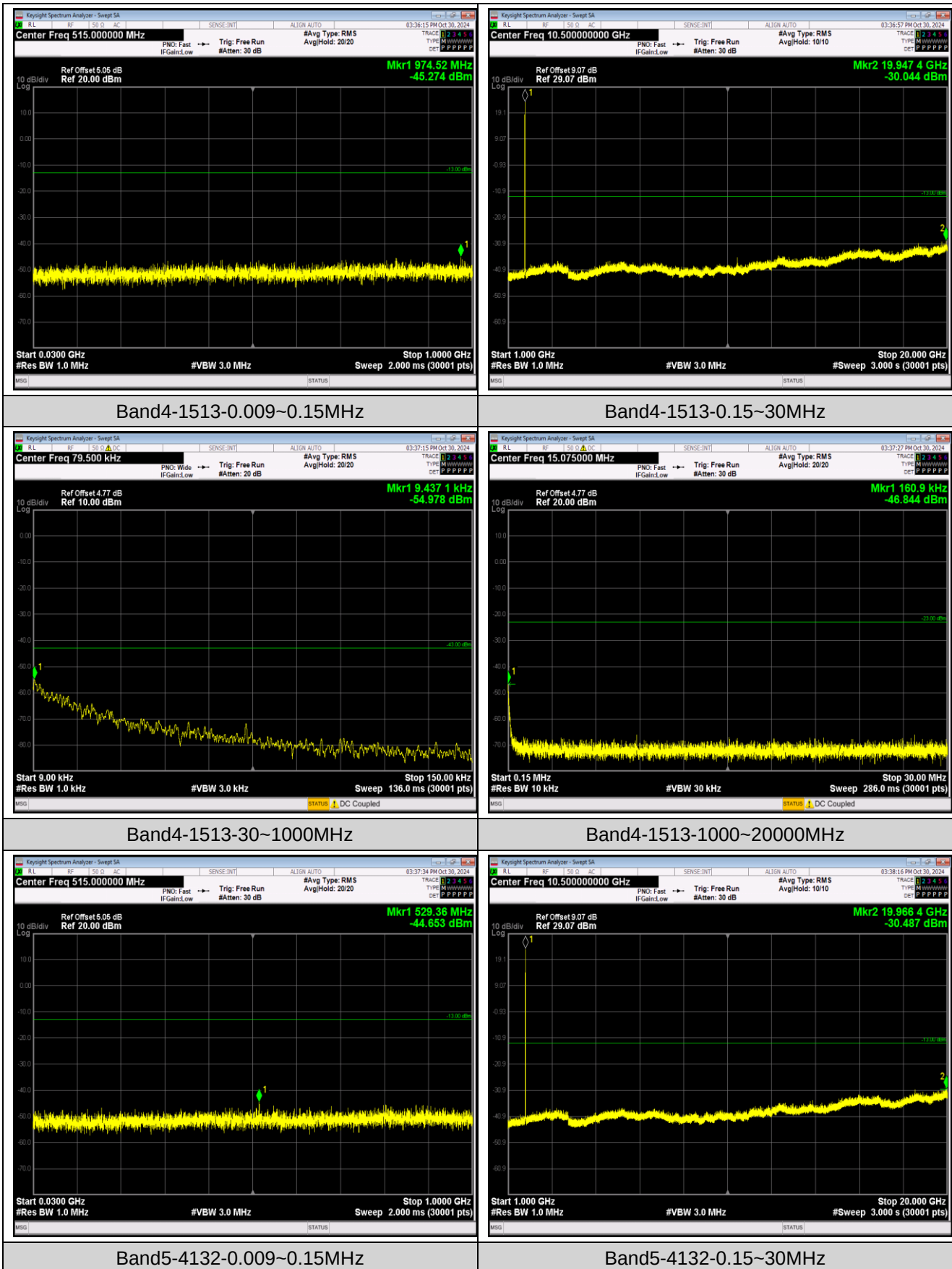
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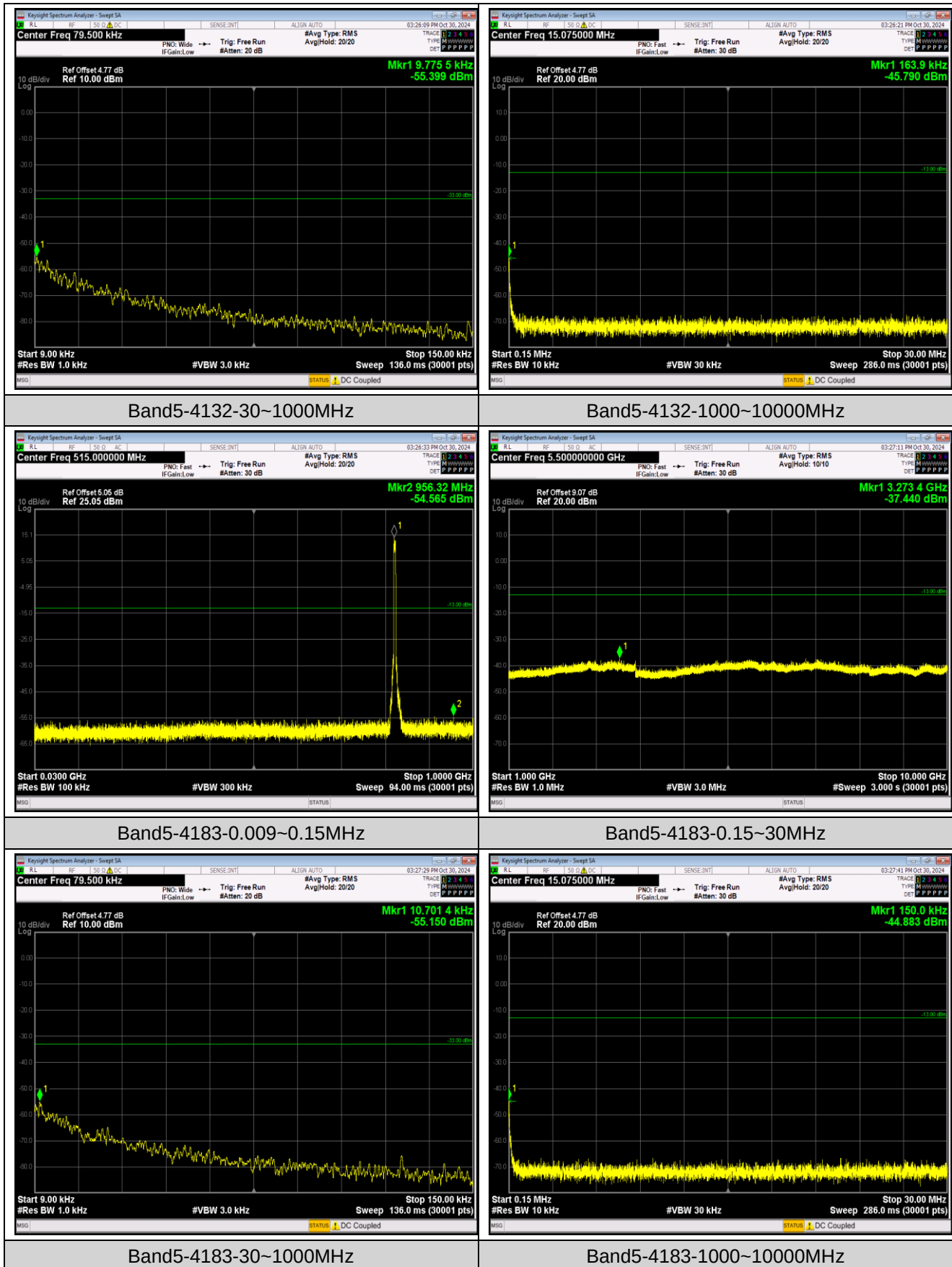
Tel: +86-755-23118282, Fax: +86-755-23116366

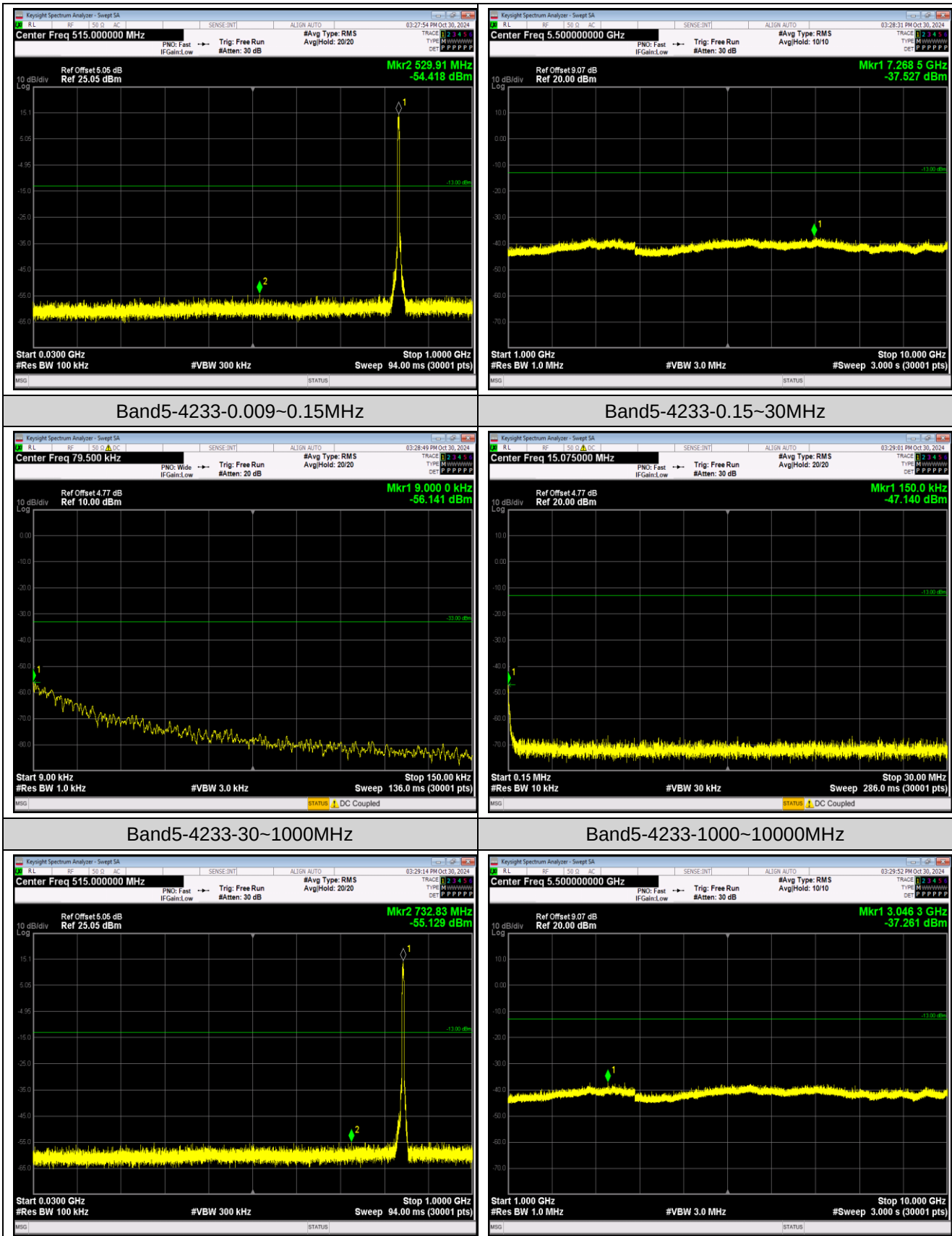
Project No.: JYTSZR2410039













## 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>(°C)     | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 3.80                                                                                        | -30                     | -1.71           | -0.002044 | ±2.5        | Pass   |
|                                                                                             | -20                     | -1.44           | -0.001721 |             |        |
|                                                                                             | -10                     | -1.02           | -0.001219 |             |        |
|                                                                                             | 0                       | -1.07           | -0.001279 |             |        |
|                                                                                             | 10                      | -0.59           | -0.000705 |             |        |
|                                                                                             | 20                      | -1.35           | -0.001614 |             |        |
|                                                                                             | 30                      | -1.02           | -0.001219 |             |        |
|                                                                                             | 40                      | -0.60           | -0.000717 |             |        |
|                                                                                             | 50                      | -0.47           | -0.000562 |             |        |
| Voltage                                                                                     |                         |                 |           |             |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm) | Result |
|                                                                                             |                         | Hz              | ppm       |             |        |
| 25                                                                                          | 3.50                    | 0.84            | 0.001004  | ±2.5        | Pass   |
|                                                                                             | 3.80                    | 1.91            | 0.002283  |             |        |
|                                                                                             | 4.40                    | -1.07           | -0.001279 |             |        |
| 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>(℃)      | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 3.80                                                                                        | -30                     | 5.06            | 0.002920  | Within authorized<br>band for BAND IV | Pass   |
|                                                                                             | -20                     | -1.27           | -0.000733 |                                       |        |
|                                                                                             | -10                     | -1.92           | -0.001108 |                                       |        |
|                                                                                             | 0                       | 7.66            | 0.004421  |                                       |        |
|                                                                                             | 10                      | 8.11            | 0.004681  |                                       |        |
|                                                                                             | 20                      | 2.85            | 0.001645  |                                       |        |
|                                                                                             | 30                      | -0.19           | -0.000110 |                                       |        |
|                                                                                             | 40                      | -1.76           | -0.001016 |                                       |        |
|                                                                                             | 50                      | 9.91            | 0.005720  |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(℃)                                                                          | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.50                    | 0.58            | 0.000335  | Within authorized<br>band for BAND IV | Pass   |
|                                                                                             | 3.80                    | 4.83            | 0.002788  |                                       |        |
|                                                                                             | 4.40                    | -5.02           | -0.002897 |                                       |        |
| 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       |                                       |        |
| 3.80                                                                                        | -30                     | 4.11            | 0.002186  | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | -20                     | -0.95           | -0.000505 |                                       |        |
|                                                                                             | -10                     | -1.42           | -0.000755 |                                       |        |
|                                                                                             | 0                       | -1.56           | -0.000830 |                                       |        |
|                                                                                             | 10                      | -4.74           | -0.002521 |                                       |        |
|                                                                                             | 20                      | 0.28            | 0.000149  |                                       |        |
|                                                                                             | 30                      | 1.64            | 0.000872  |                                       |        |
|                                                                                             | 40                      | 1.78            | 0.000947  |                                       |        |
|                                                                                             | 50                      | -5.17           | -0.002750 |                                       |        |
| Voltage                                                                                     |                         |                 |           |                                       |        |
| Temperature<br>(°C)                                                                         | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                           | Result |
|                                                                                             |                         | Hz              | ppm       |                                       |        |
| 25                                                                                          | 3.50                    | -0.39           | -0.000207 | Within authorized<br>band for BAND II | Pass   |
|                                                                                             | 3.80                    | 0.27            | 0.000144  |                                       |        |
|                                                                                             | 4.40                    | -0.03           | -0.000016 |                                       |        |
| 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

