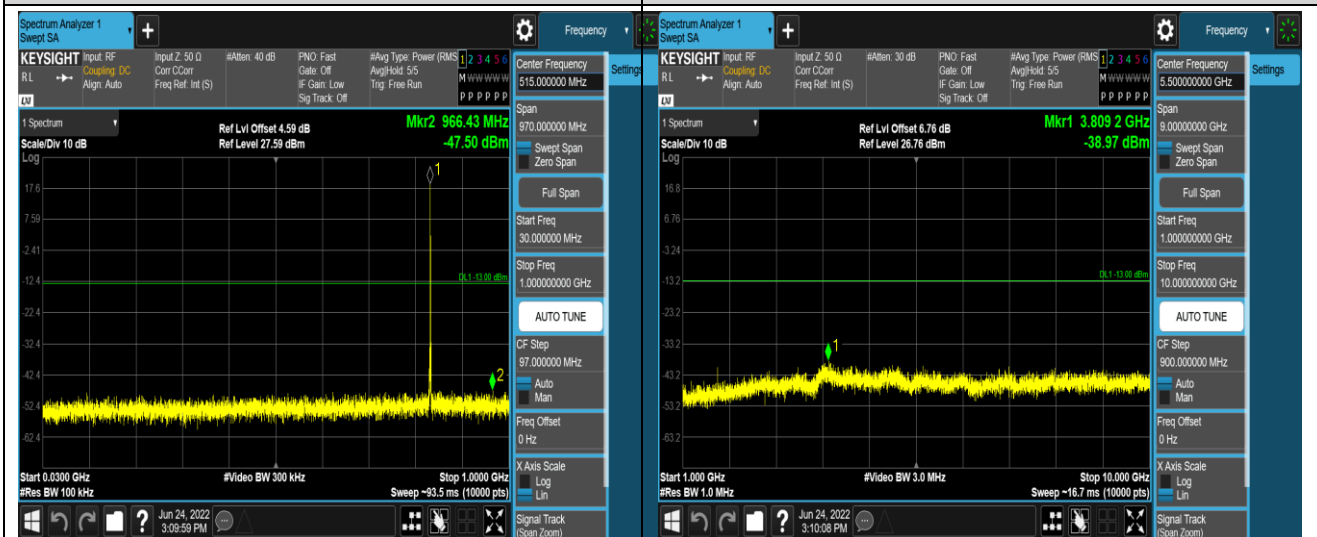




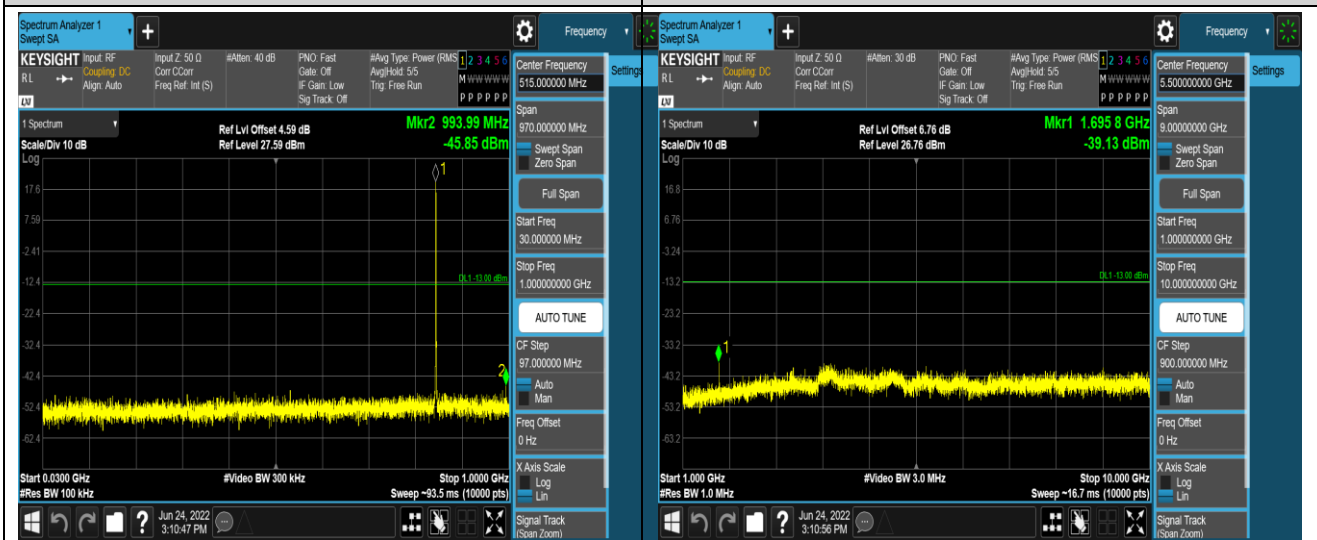
Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1  
000MHz

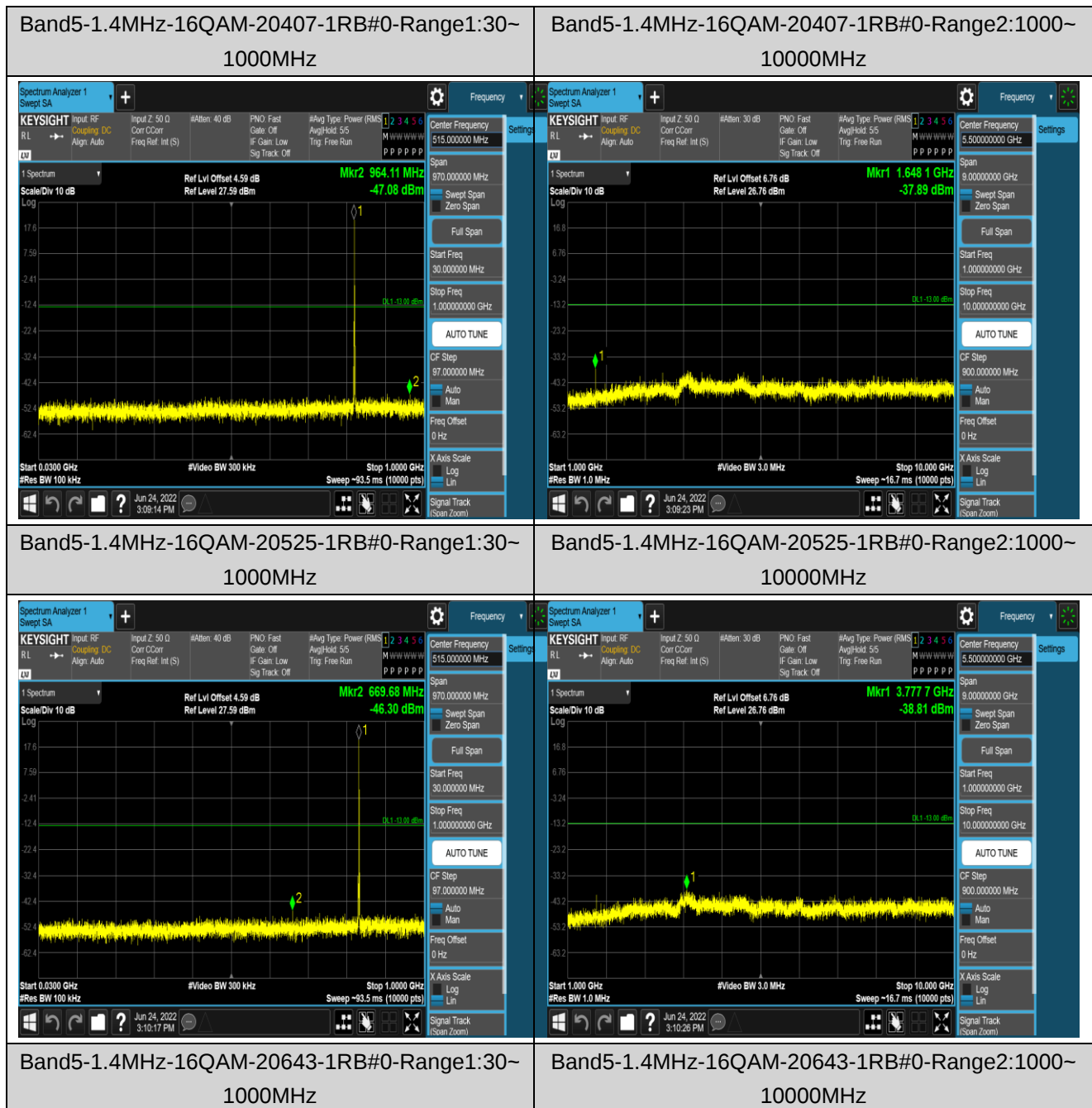
Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~1  
000MHz

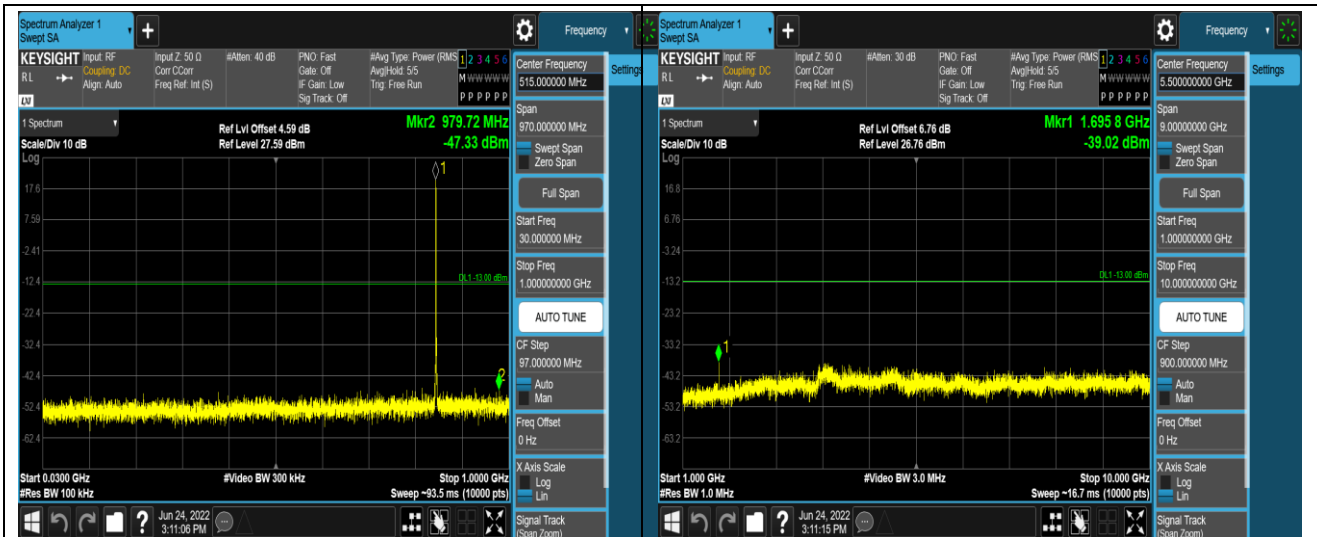


Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1  
000MHz

Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~1  
000MHz

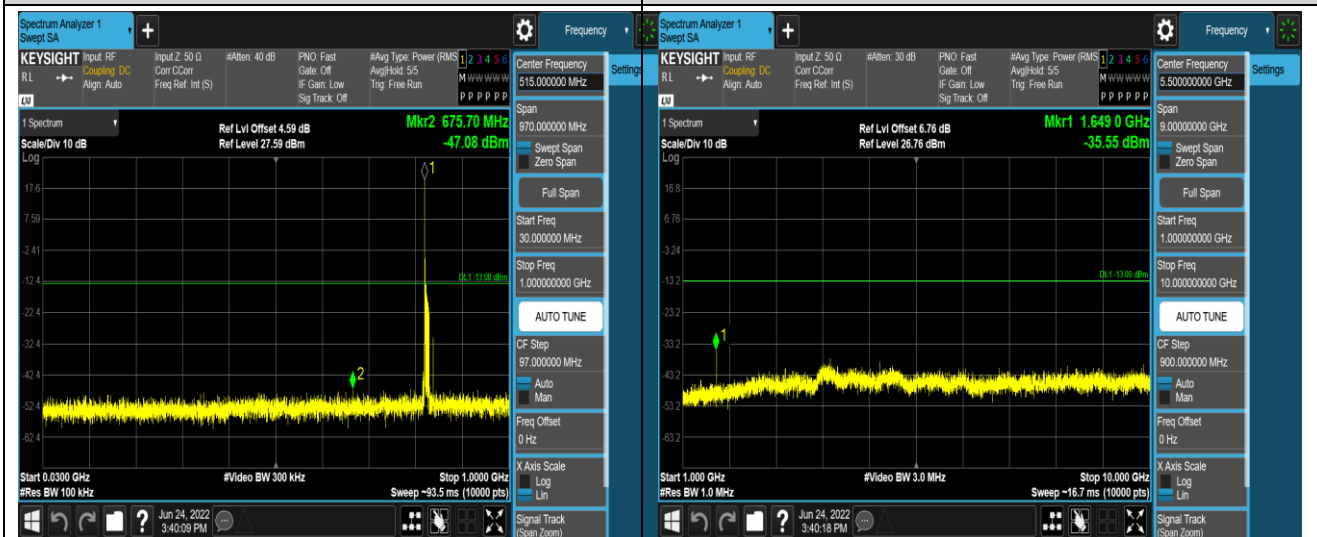






Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz

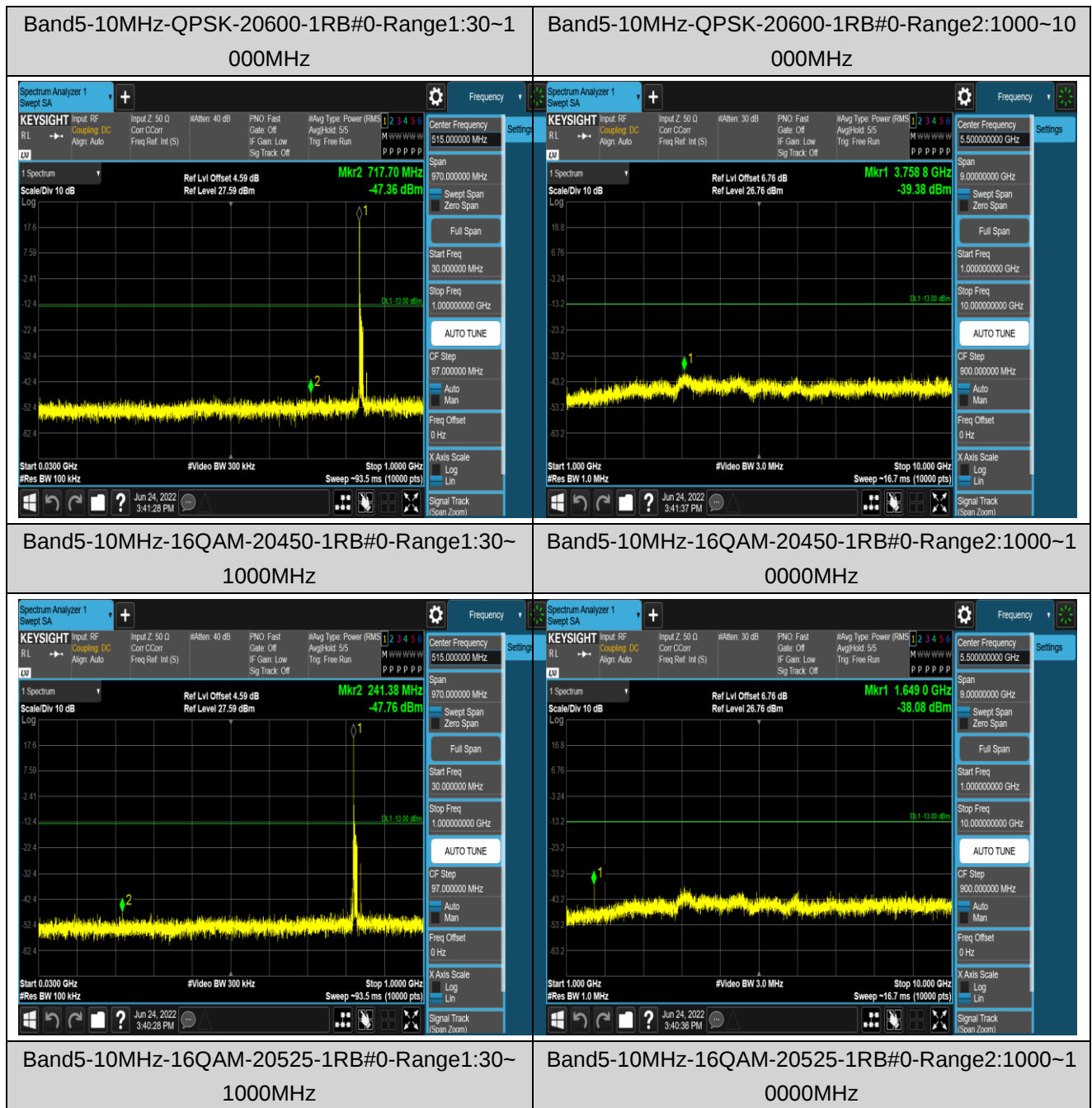
Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz

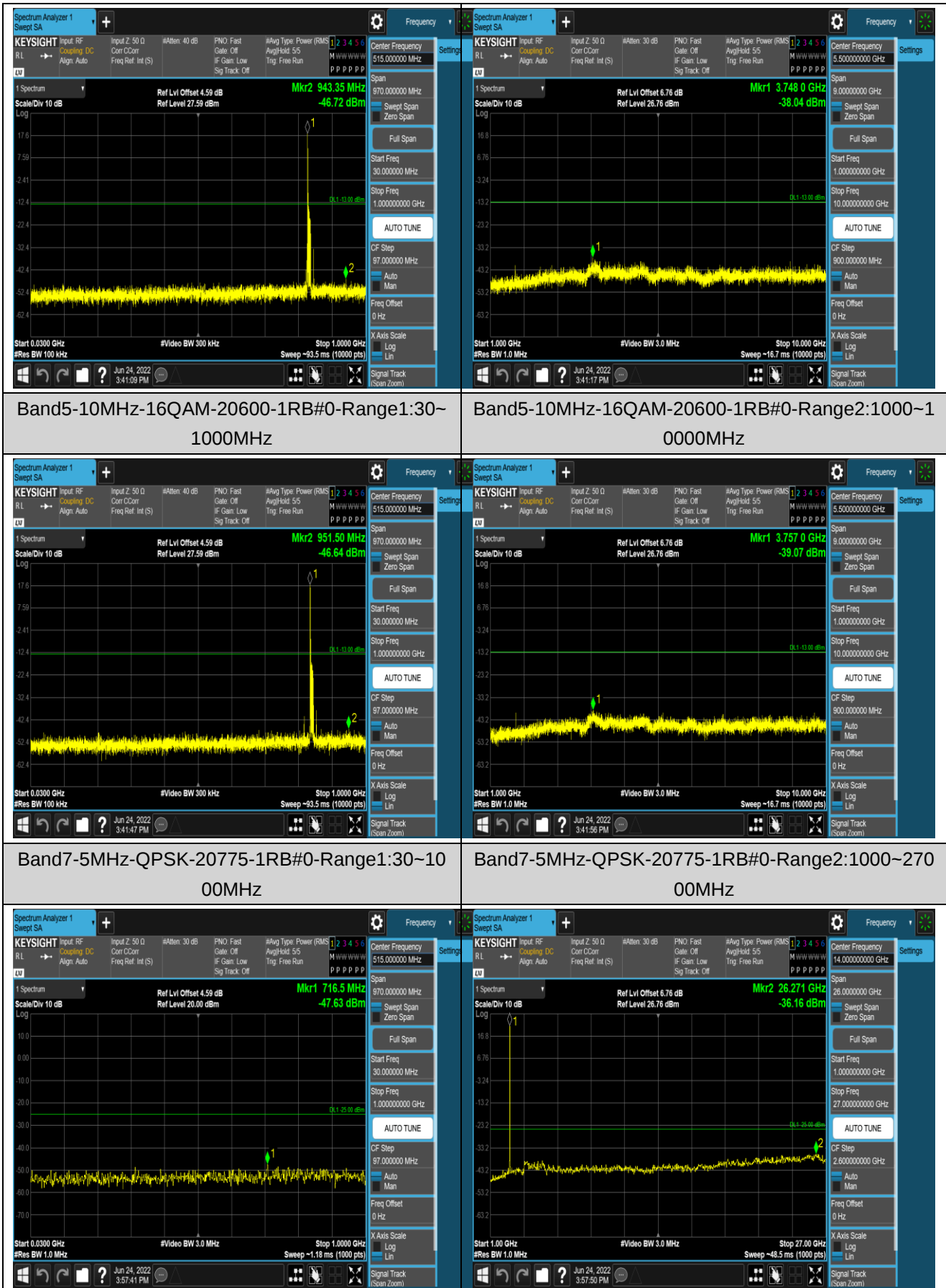


Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz





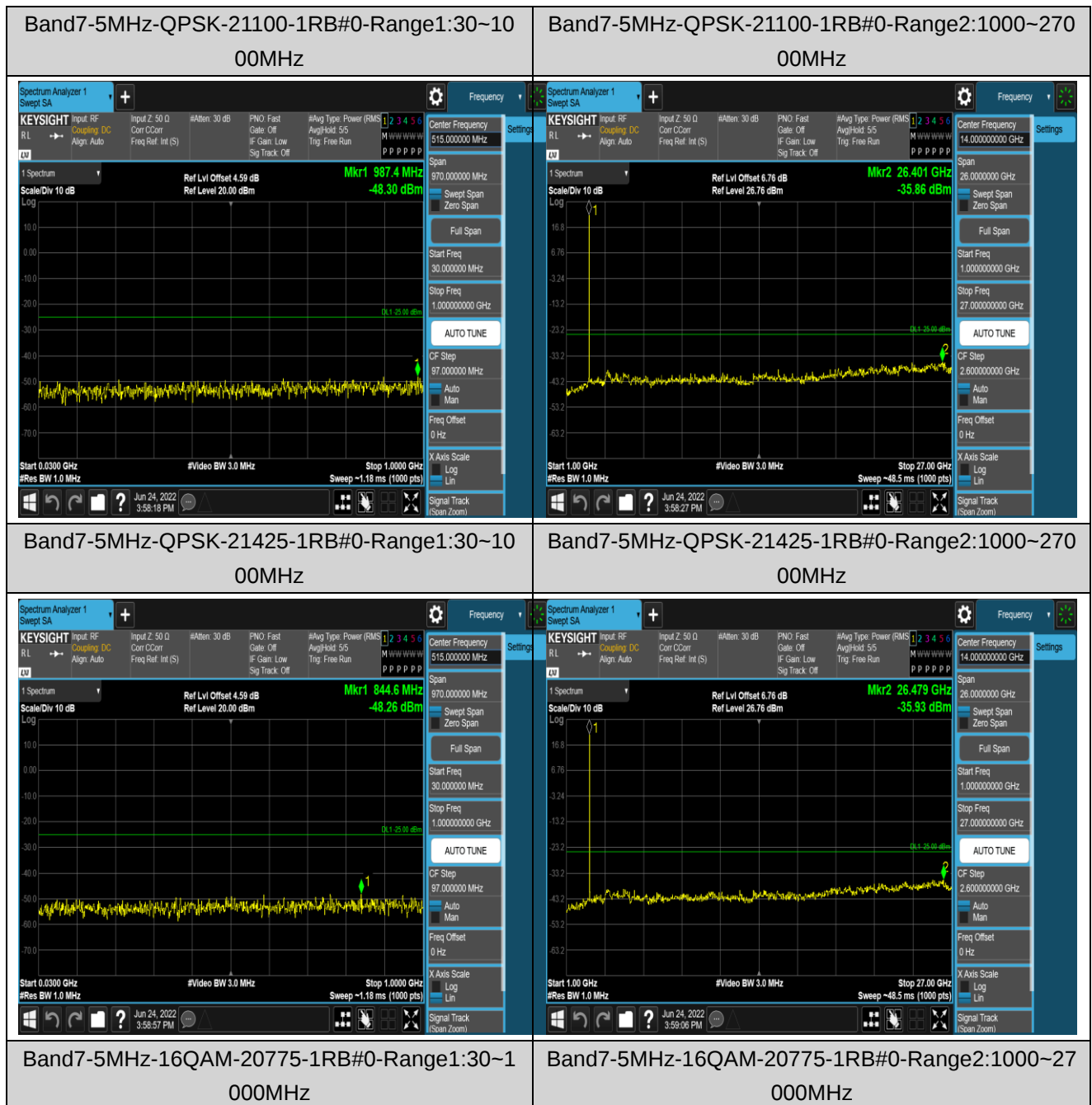


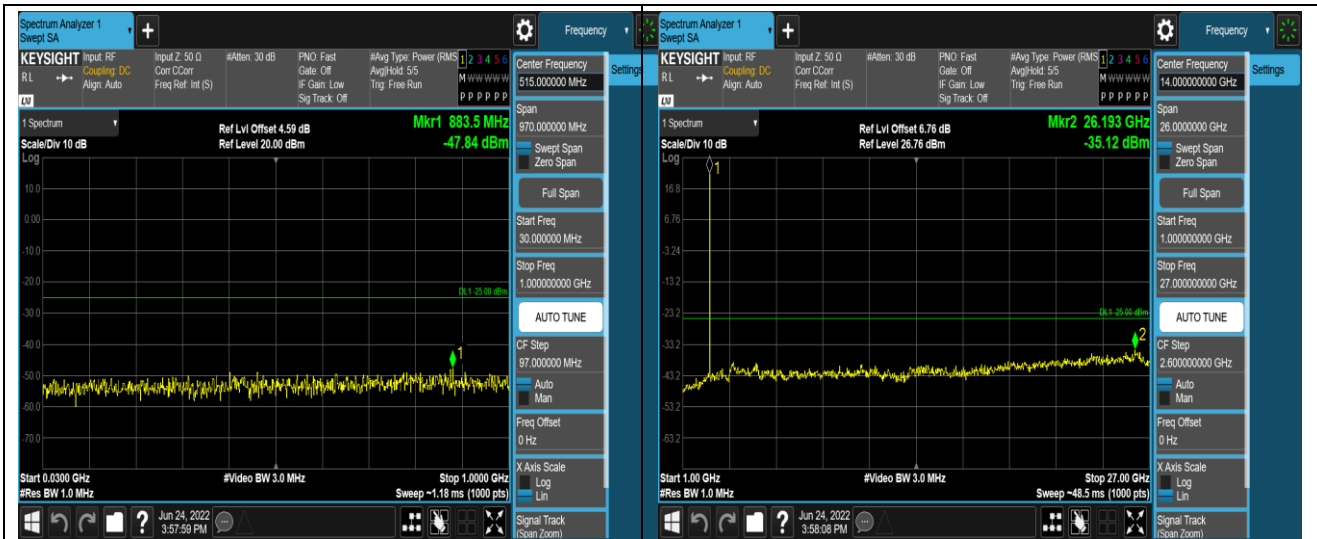
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

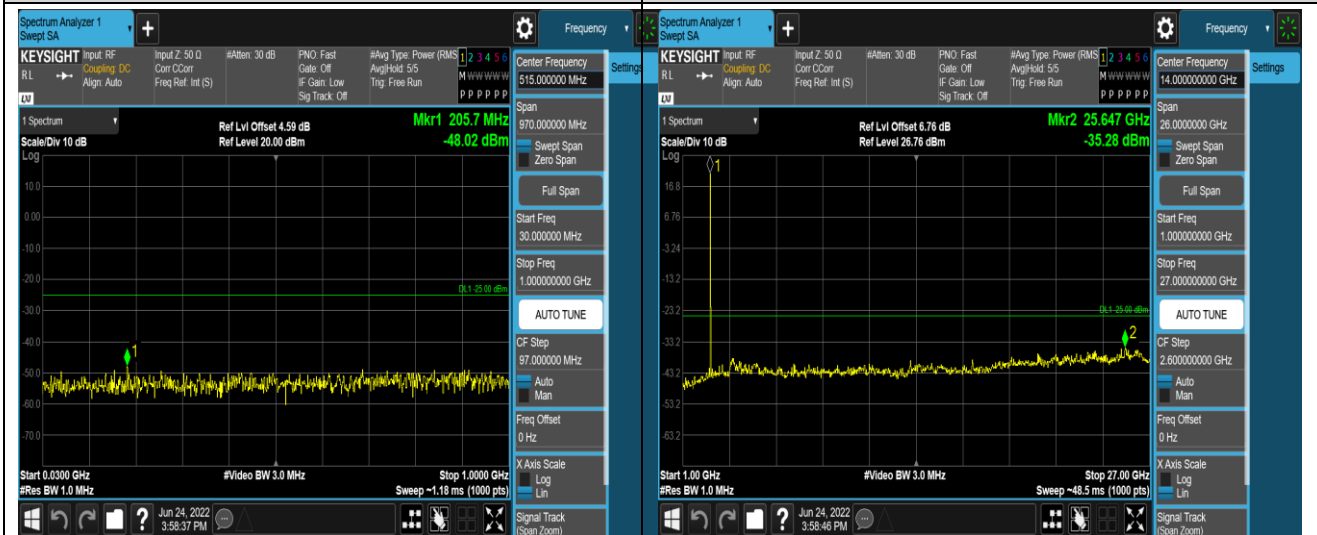
Project No.: JYTSZR2206046





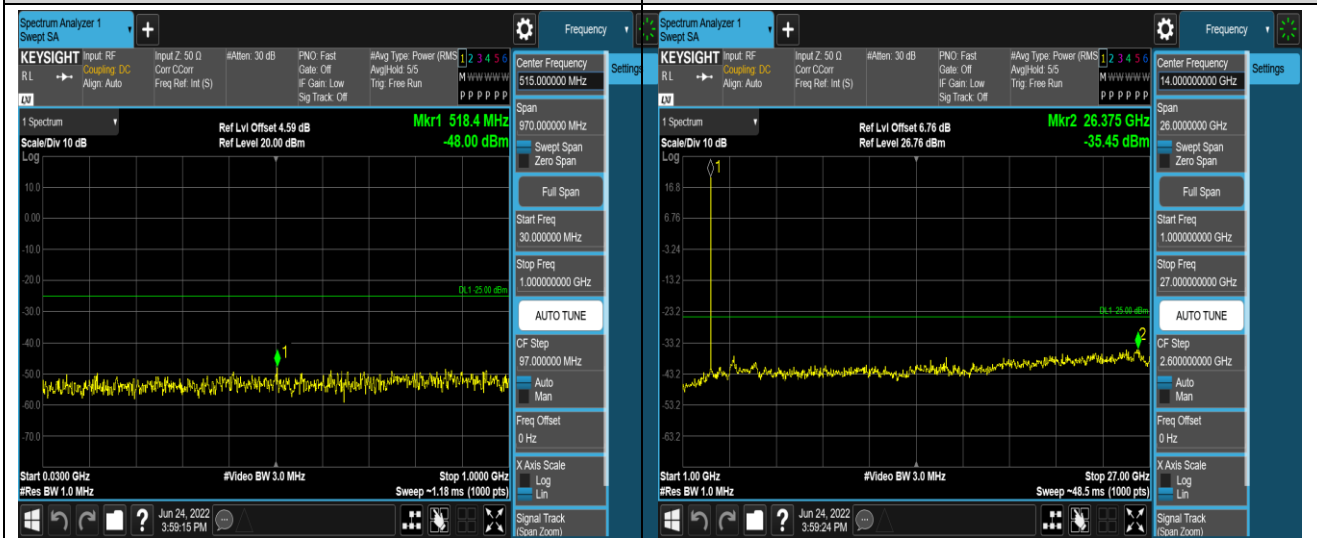
Band7-5MHz-16QAM-21100-1RB#0-Range1:30~1000MHz

Band7-5MHz-16QAM-21100-1RB#0-Range2:1000~27000MHz



Band7-5MHz-16QAM-21425-1RB#0-Range1:30~1000MHz

Band7-5MHz-16QAM-21425-1RB#0-Range2:1000~27000MHz

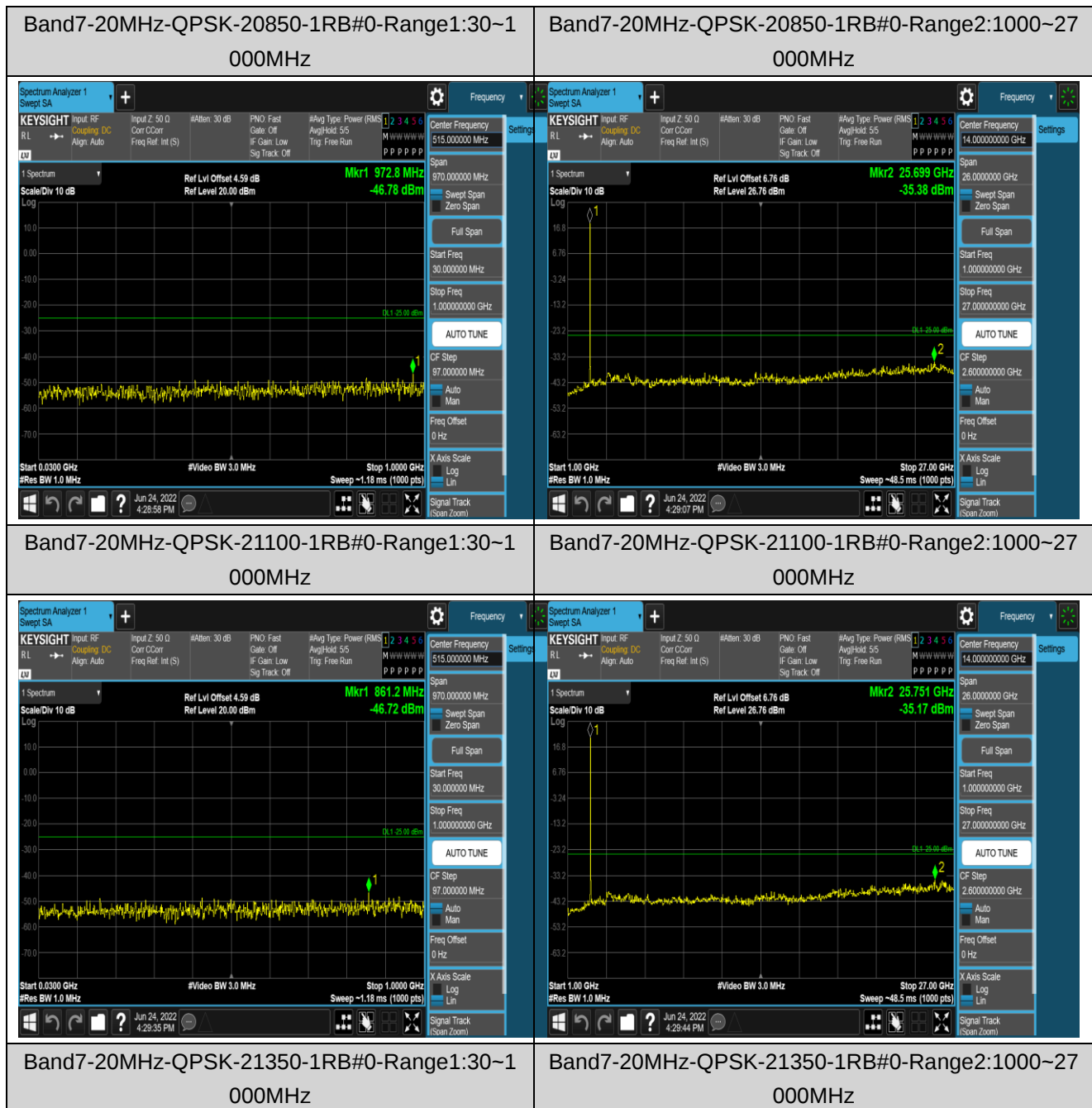


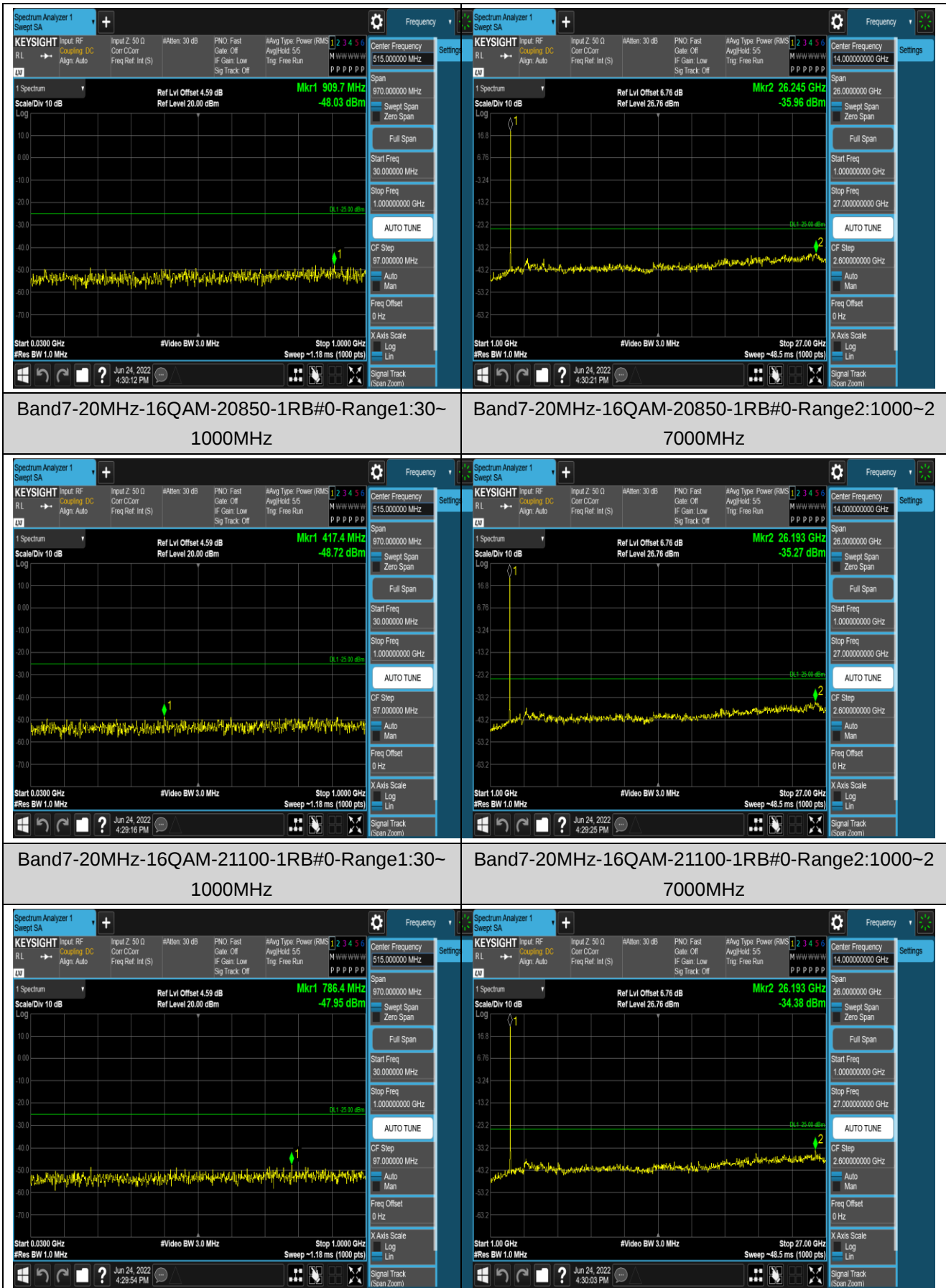
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Project No.: JYTSZR2206046



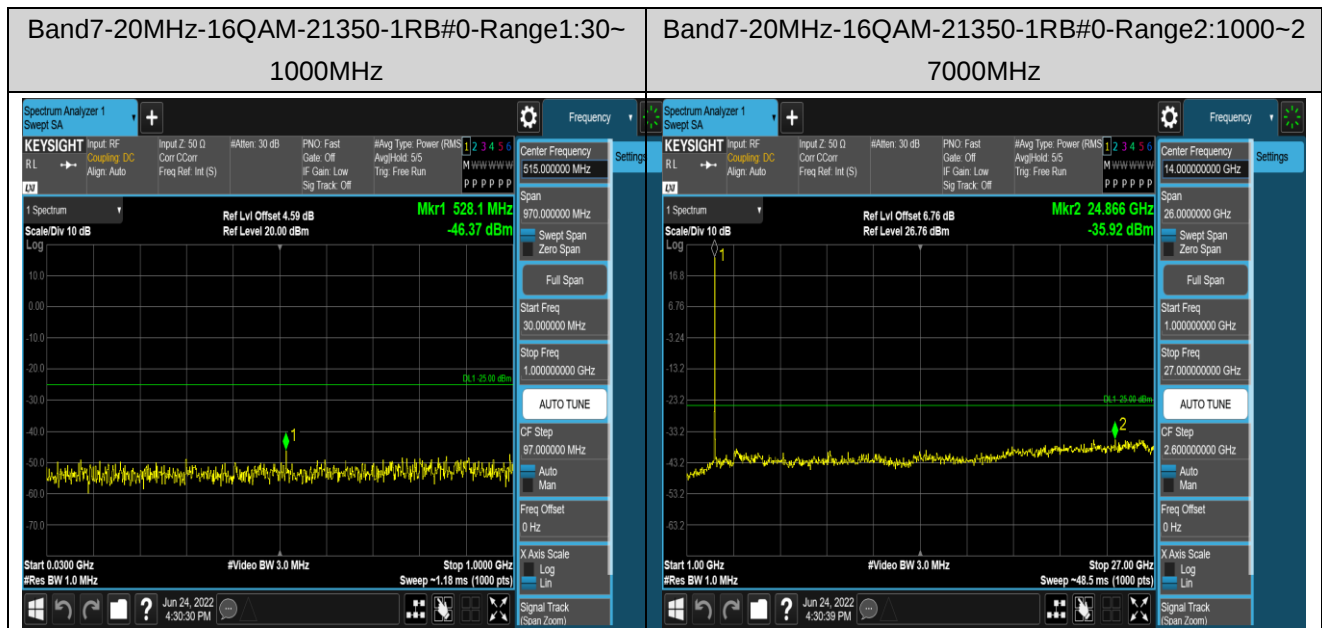


JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Project No.: JYTSZR2206046



## Appendix F: Frequency Stability

### Test Result

LTE Band 4 part:

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz                                  |                      |                 |           |                                   |        |
|------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature                                                                                                      |                      |                 |           |                                   |        |
| Power supplied (Vdc)                                                                                             | Temperature (°C)     | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                                                  |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                                                             |                      |                 |           |                                   |        |
| 3.80                                                                                                             | -30                  | -6.97           | -0.004023 | Within authorized band for Band 4 | Pass   |
|                                                                                                                  | -20                  | 4.23            | 0.002442  |                                   |        |
|                                                                                                                  | -10                  | -2.82           | -0.001628 |                                   |        |
|                                                                                                                  | 0                    | -4.32           | -0.002494 |                                   |        |
|                                                                                                                  | 10                   | -6.78           | -0.003913 |                                   |        |
|                                                                                                                  | 20                   | -3.18           | -0.001835 |                                   |        |
|                                                                                                                  | 30                   | -7.11           | -0.004104 |                                   |        |
|                                                                                                                  | 40                   | 4.43            | 0.002557  |                                   |        |
|                                                                                                                  | 50                   | -16.29          | -0.009403 |                                   |        |
| 16QAM                                                                                                            |                      |                 |           |                                   |        |
| 3.80                                                                                                             | -30                  | 21.87           | 0.012623  | Within authorized band for Band 4 | Pass   |
|                                                                                                                  | -20                  | 3.16            | 0.001824  |                                   |        |
|                                                                                                                  | -10                  | 10.80           | 0.006234  |                                   |        |
|                                                                                                                  | 0                    | 23.53           | 0.013582  |                                   |        |
|                                                                                                                  | 10                   | 33.82           | 0.019521  |                                   |        |
|                                                                                                                  | 20                   | 3.72            | 0.002147  |                                   |        |
|                                                                                                                  | 30                   | 25.63           | 0.014794  |                                   |        |
|                                                                                                                  | 40                   | -2.36           | -0.001362 |                                   |        |
|                                                                                                                  | 50                   | 19.08           | 0.011013  |                                   |        |
| Voltage                                                                                                          |                      |                 |           |                                   |        |
| Temperature (°C)                                                                                                 | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                                                  |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                                                             |                      |                 |           |                                   |        |
| 25                                                                                                               | 3.50                 | 8.00            | 0.004618  | Within authorized band for Band 4 | Pass   |
|                                                                                                                  | 3.80                 | 20.59           | 0.011885  |                                   |        |
|                                                                                                                  | 4.35                 | 6.77            | 0.003908  |                                   |        |
| 16QAM                                                                                                            |                      |                 |           |                                   |        |
| 25                                                                                                               | 3.50                 | -17.87          | -0.010315 | Within authorized band for Band 4 | Pass   |
|                                                                                                                  | 3.80                 | -30.13          | -0.017391 |                                   |        |
|                                                                                                                  | 4.35                 | 12.12           | 0.006996  |                                   |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                      |                 |           |                                   |        |

## LTE Band 5 part:

| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz                                   |                      |                 |           |             |        |
|------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------|-------------|--------|
| Temperature                                                                                                      |                      |                 |           |             |        |
| Power supplied (Vdc)                                                                                             | Temperature (°C)     | Frequency error |           | Limit (ppm) | Result |
|                                                                                                                  |                      | Hz              | ppm       |             |        |
| QPSK                                                                                                             |                      |                 |           |             |        |
| 3.80                                                                                                             | -30                  | -26.15          | -0.031261 | ±2.5        | Pass   |
|                                                                                                                  | -20                  | -30.37          | -0.036306 |             |        |
|                                                                                                                  | -10                  | -35.28          | -0.042176 |             |        |
|                                                                                                                  | 0                    | -45.00          | -0.053796 |             |        |
|                                                                                                                  | 10                   | -47.71          | -0.057035 |             |        |
|                                                                                                                  | 20                   | -4.32           | -0.005164 |             |        |
|                                                                                                                  | 30                   | -8.94           | -0.010687 |             |        |
|                                                                                                                  | 40                   | -9.14           | -0.010926 |             |        |
|                                                                                                                  | 50                   | -15.52          | -0.018553 |             |        |
| 16QAM                                                                                                            |                      |                 |           |             |        |
| 3.80                                                                                                             | -30                  | -4.52           | -0.005403 | ±2.5        | Pass   |
|                                                                                                                  | -20                  | -5.36           | -0.006408 |             |        |
|                                                                                                                  | -10                  | 7.30            | 0.008727  |             |        |
|                                                                                                                  | 0                    | 2.16            | 0.002582  |             |        |
|                                                                                                                  | 10                   | 6.98            | 0.008344  |             |        |
|                                                                                                                  | 20                   | -1.89           | -0.002259 |             |        |
|                                                                                                                  | 30                   | -6.95           | -0.008308 |             |        |
|                                                                                                                  | 40                   | -13.68          | -0.016354 |             |        |
|                                                                                                                  | 50                   | -16.39          | -0.019594 |             |        |
| Voltage                                                                                                          |                      |                 |           |             |        |
| Temperature (°C)                                                                                                 | Power supplied (Vdc) | Frequency error |           | Limit (ppm) | Result |
|                                                                                                                  |                      | Hz              | ppm       |             |        |
| QPSK                                                                                                             |                      |                 |           |             |        |
| 25                                                                                                               | 3.50                 | 7.25            | 0.008667  | ±2.5        | Pass   |
|                                                                                                                  | 3.80                 | 18.68           | 0.022331  |             |        |
|                                                                                                                  | 4.35                 | -17.85          | -0.021339 |             |        |
| 16QAM                                                                                                            |                      |                 |           |             |        |
| 25                                                                                                               | 3.50                 | 8.87            | 0.010604  | ±2.5        | Pass   |
|                                                                                                                  | 3.80                 | -11.24          | -0.013437 |             |        |
|                                                                                                                  | 4.35                 | 35.65           | 0.042618  |             |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                      |                 |           |             |        |

## LTE Band 7 part:

| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz                                  |                      |                 |           |                                   |        |
|------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature                                                                                                      |                      |                 |           |                                   |        |
| Power supplied (Vdc)                                                                                             | Temperature (°C)     | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                                                  |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                                                             |                      |                 |           |                                   |        |
| 3.80                                                                                                             | -30                  | -18.81          | -0.007420 | Within authorized band for Band 7 | Pass   |
|                                                                                                                  | -20                  | -16.64          | -0.006564 |                                   |        |
|                                                                                                                  | -10                  | -12.02          | -0.004742 |                                   |        |
|                                                                                                                  | 0                    | -11.60          | -0.004576 |                                   |        |
|                                                                                                                  | 10                   | -8.73           | -0.003444 |                                   |        |
|                                                                                                                  | 20                   | -16.41          | -0.006473 |                                   |        |
|                                                                                                                  | 30                   | 10.54           | 0.004158  |                                   |        |
|                                                                                                                  | 40                   | -12.59          | -0.004966 |                                   |        |
|                                                                                                                  | 50                   | -8.83           | -0.003483 |                                   |        |
| 16QAM                                                                                                            |                      |                 |           |                                   |        |
| 3.80                                                                                                             | -30                  | -11.12          | -0.004387 | Within authorized band for Band 7 | Pass   |
|                                                                                                                  | -20                  | -9.63           | -0.003799 |                                   |        |
|                                                                                                                  | -10                  | -2.63           | -0.001037 |                                   |        |
|                                                                                                                  | 0                    | -7.81           | -0.003081 |                                   |        |
|                                                                                                                  | 10                   | -14.51          | -0.005724 |                                   |        |
|                                                                                                                  | 20                   | -5.89           | -0.002323 |                                   |        |
|                                                                                                                  | 30                   | -14.93          | -0.005890 |                                   |        |
|                                                                                                                  | 40                   | -9.90           | -0.003905 |                                   |        |
|                                                                                                                  | 50                   | -10.53          | -0.004154 |                                   |        |
| Voltage                                                                                                          |                      |                 |           |                                   |        |
| Temperature (°C)                                                                                                 | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                                                  |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                                                             |                      |                 |           |                                   |        |
| 25                                                                                                               | 3.50                 | -21.00          | -0.008284 | Within authorized band for Band 7 | Pass   |
|                                                                                                                  | 3.80                 | 20.04           | 0.007905  |                                   |        |
|                                                                                                                  | 4.35                 | -21.29          | -0.008398 |                                   |        |
| 16QAM                                                                                                            |                      |                 |           |                                   |        |
| 25                                                                                                               | 3.50                 | -7.25           | -0.002860 | Within authorized band for Band 7 | Pass   |
|                                                                                                                  | 3.80                 | -11.73          | -0.004627 |                                   |        |
|                                                                                                                  | 4.35                 | -9.64           | -0.003803 |                                   |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                      |                 |           |                                   |        |

## Appendix G: Modulation Characteristics

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | PASS   | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | PASS   | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | PASS   | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | PASS   | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | PASS   | PASS    |

*Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.*

## Test Graphs

