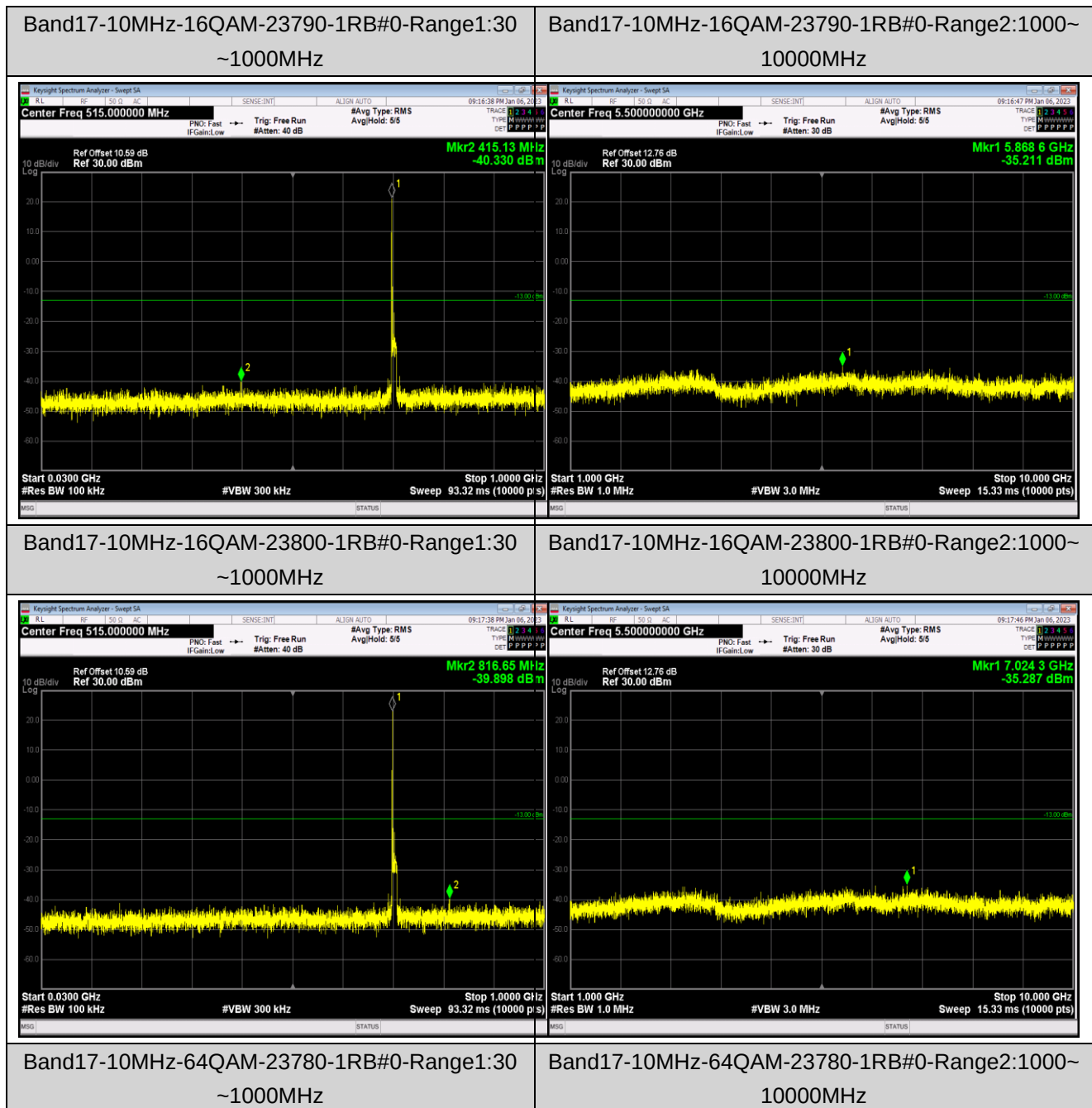
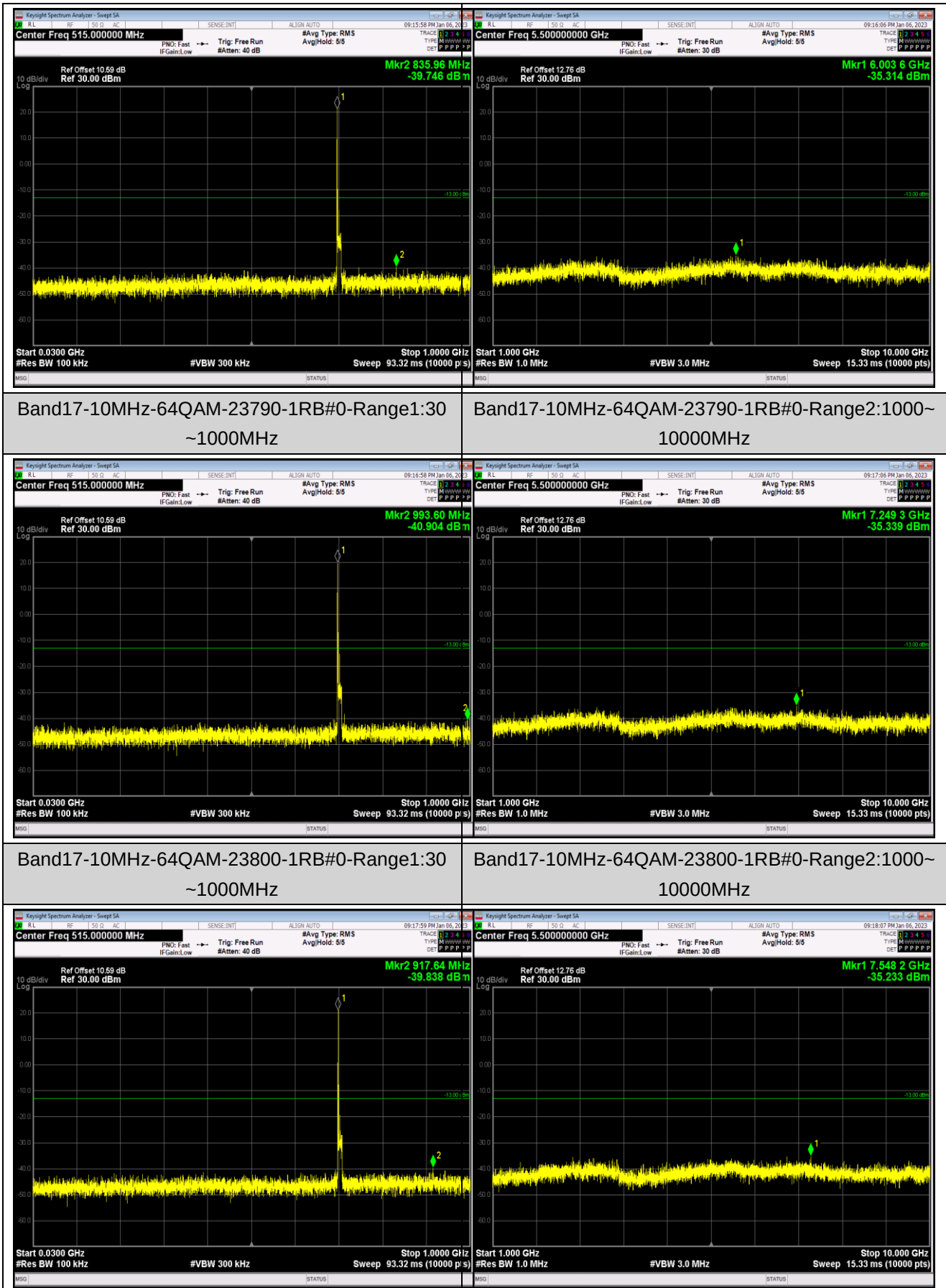
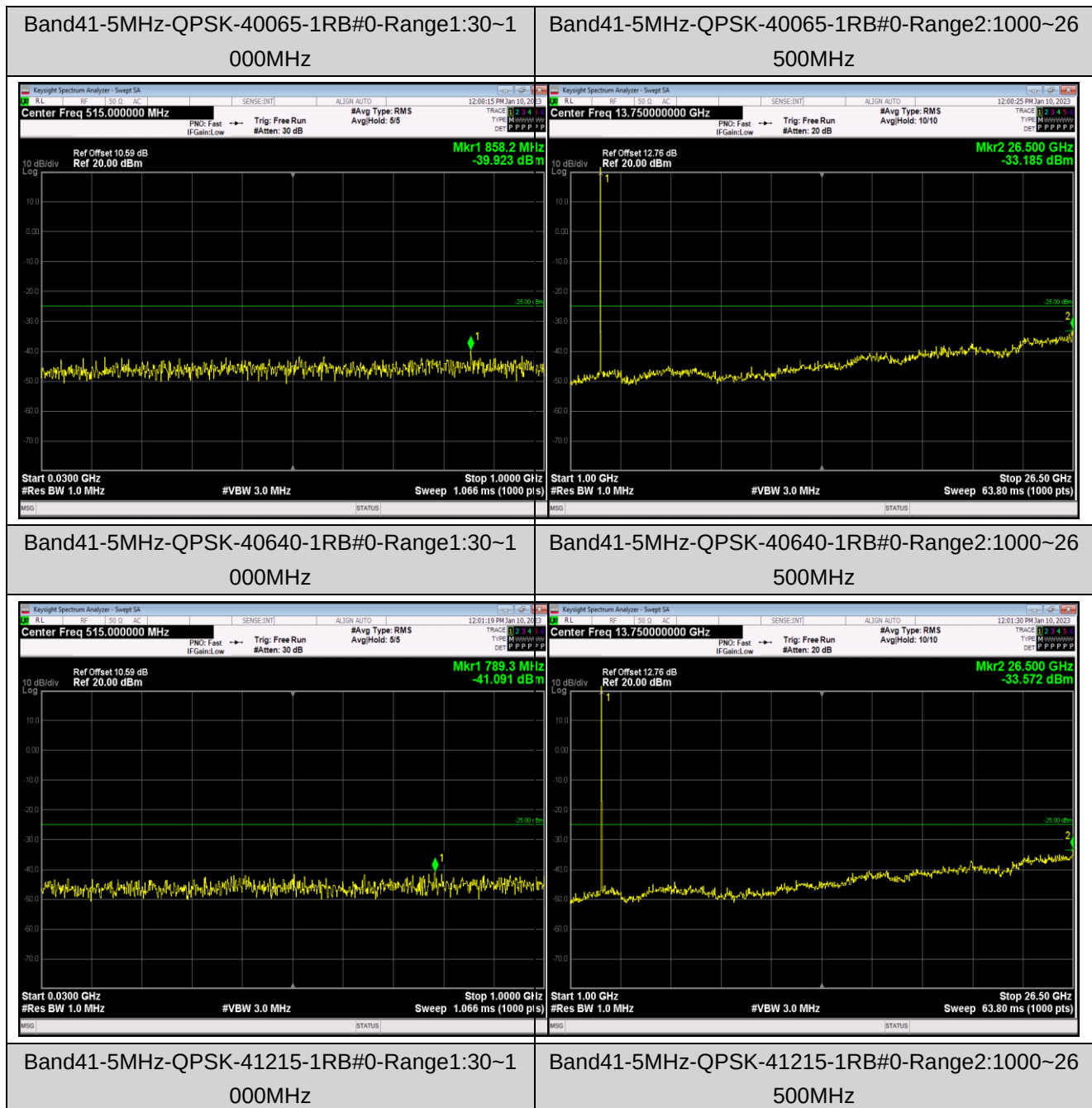
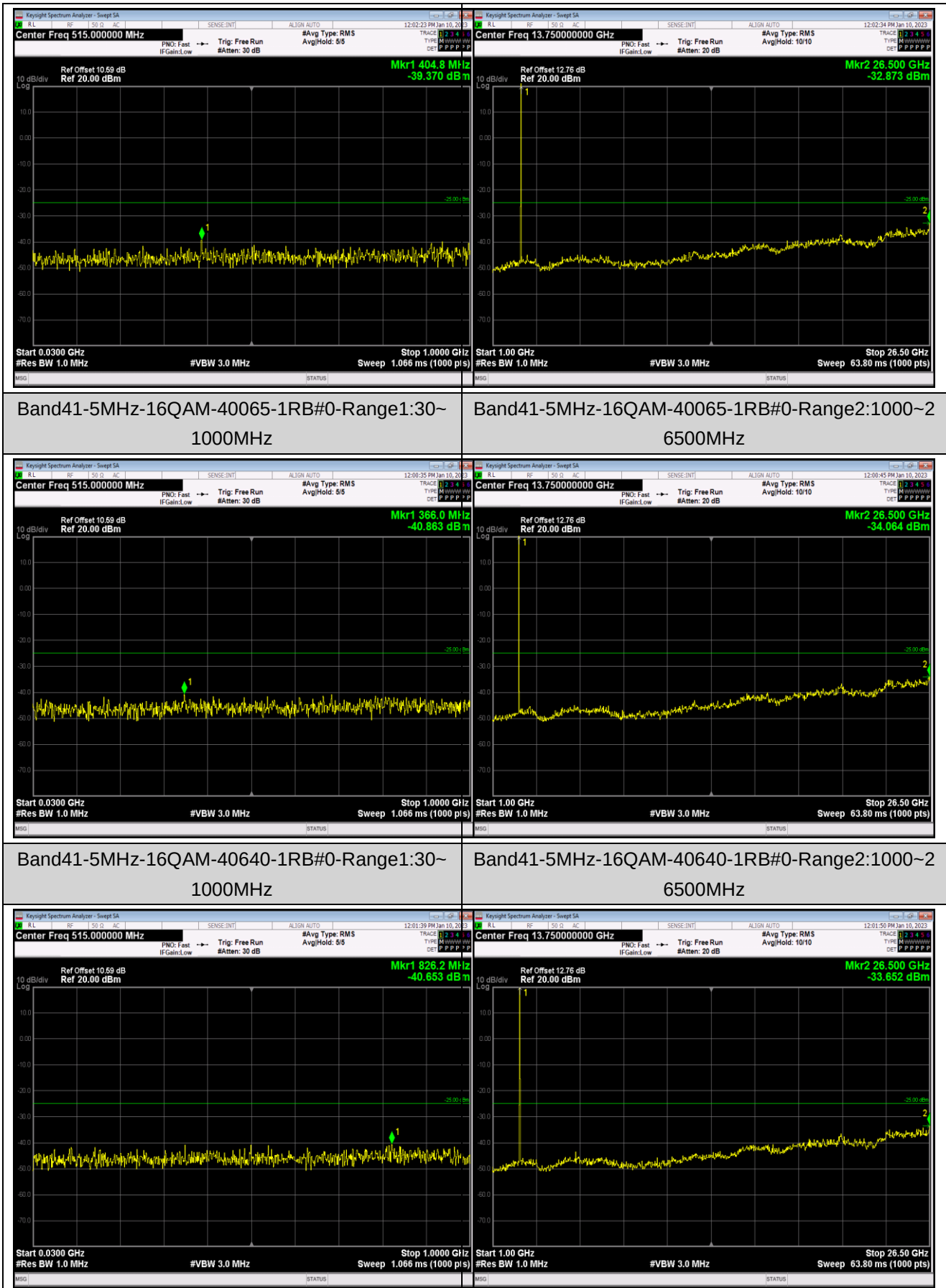
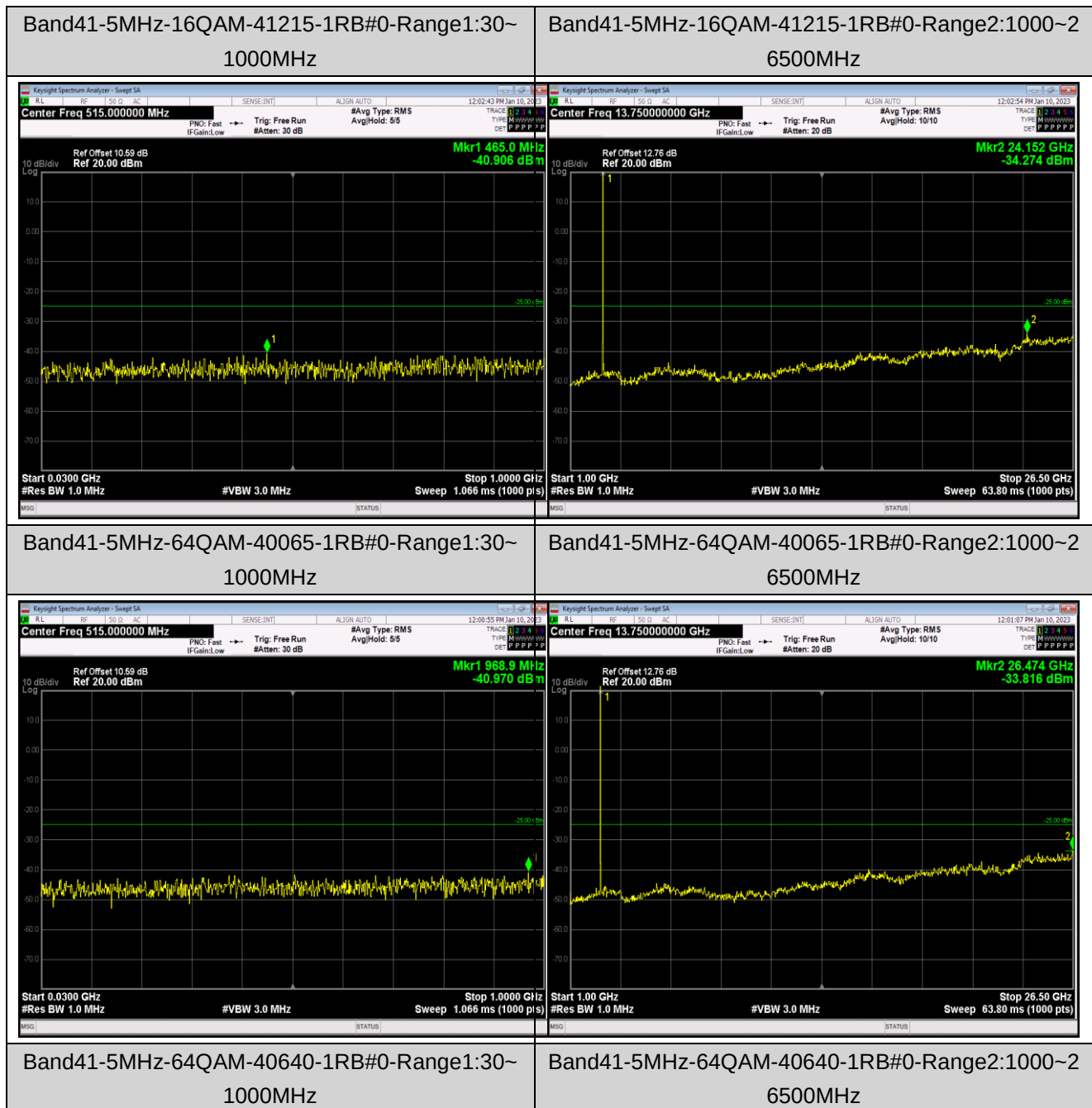


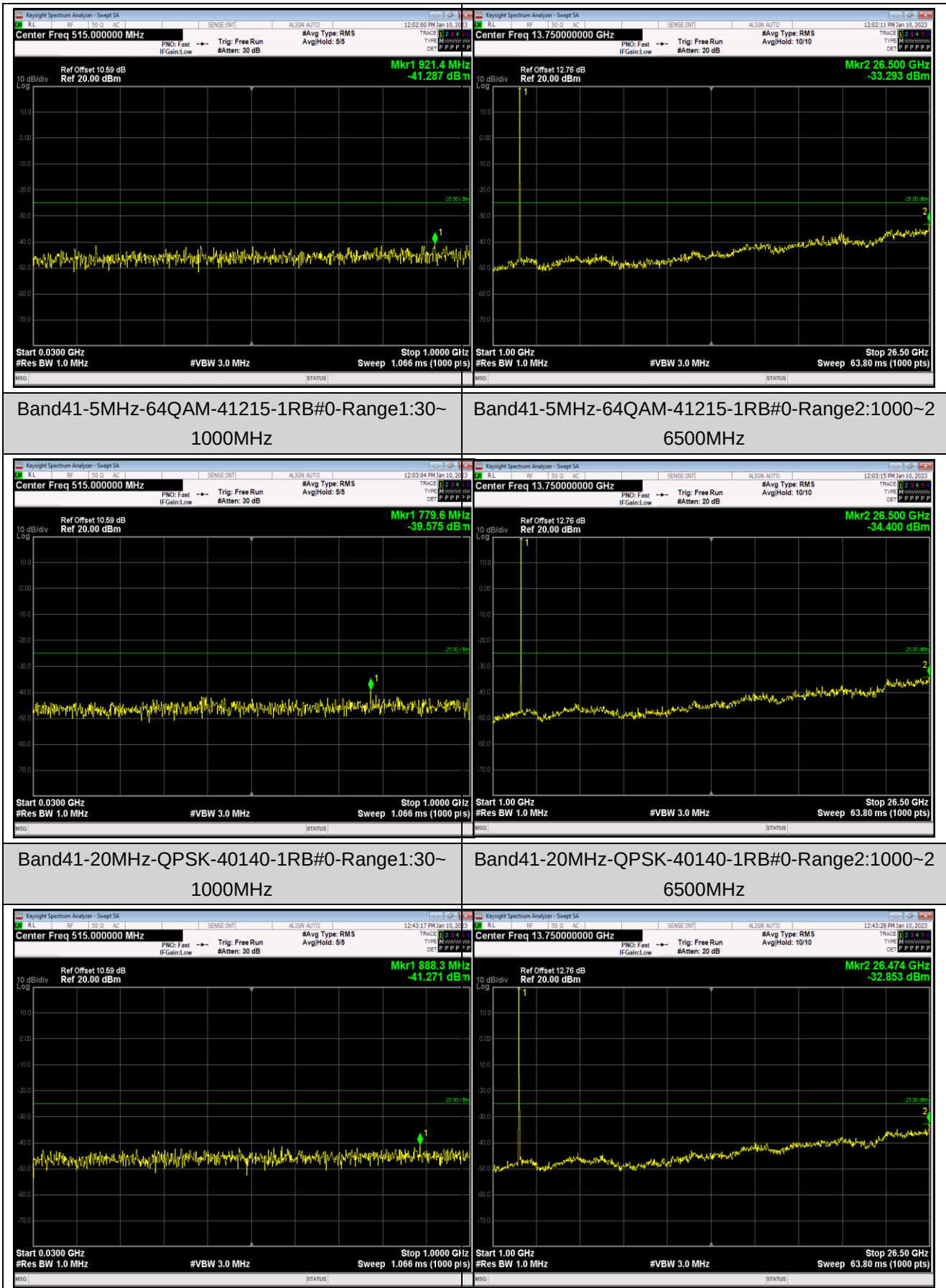


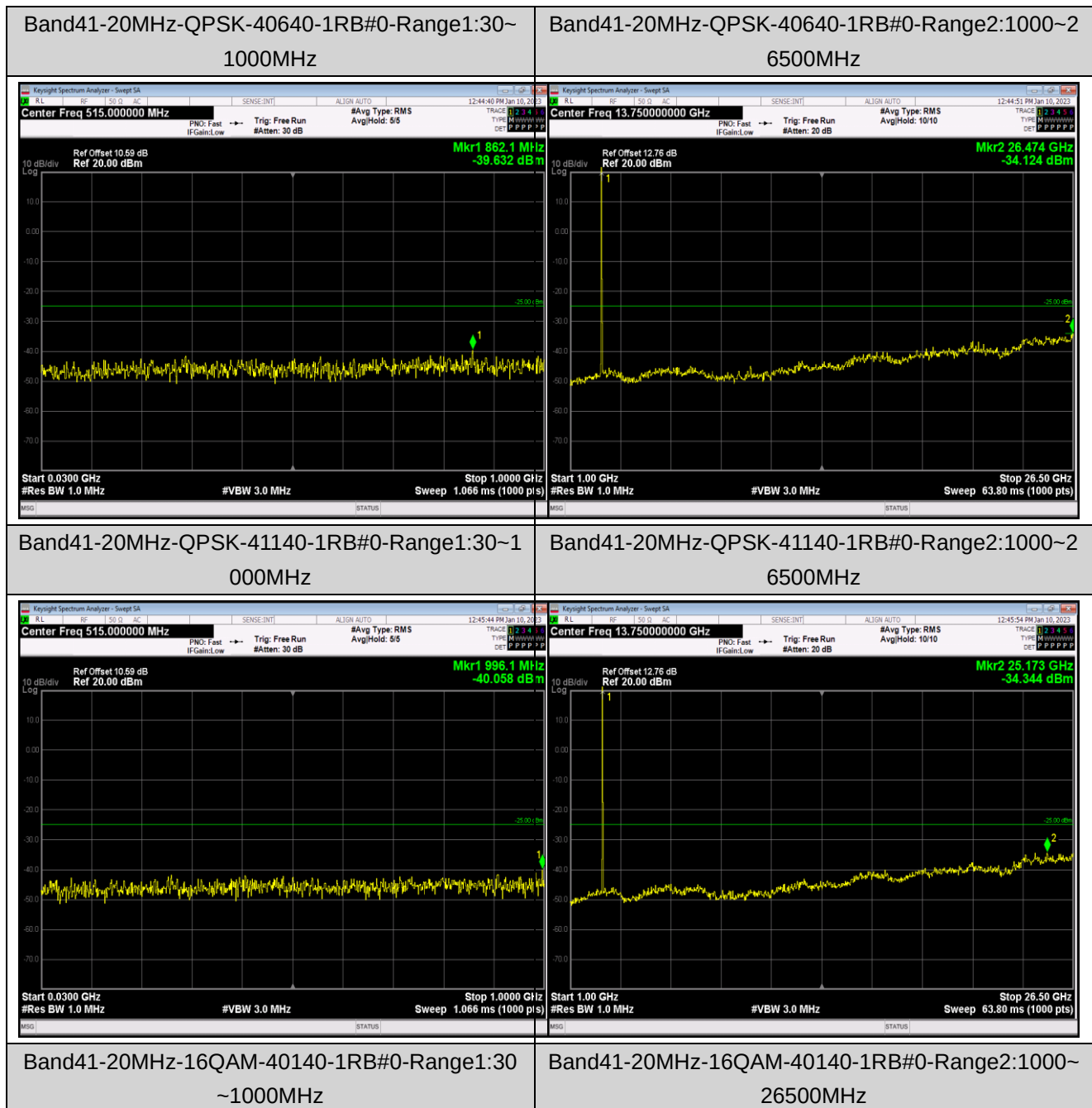


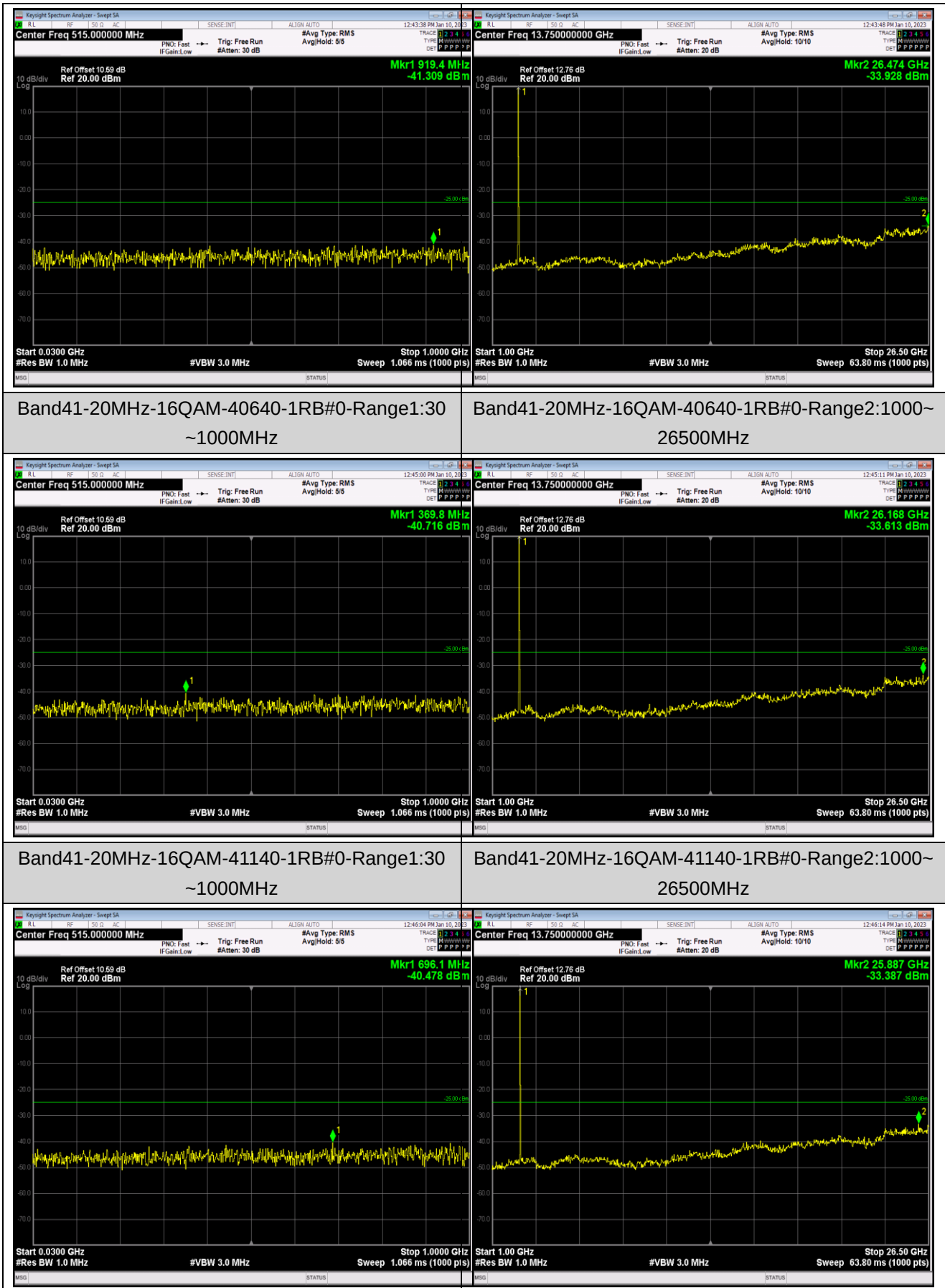


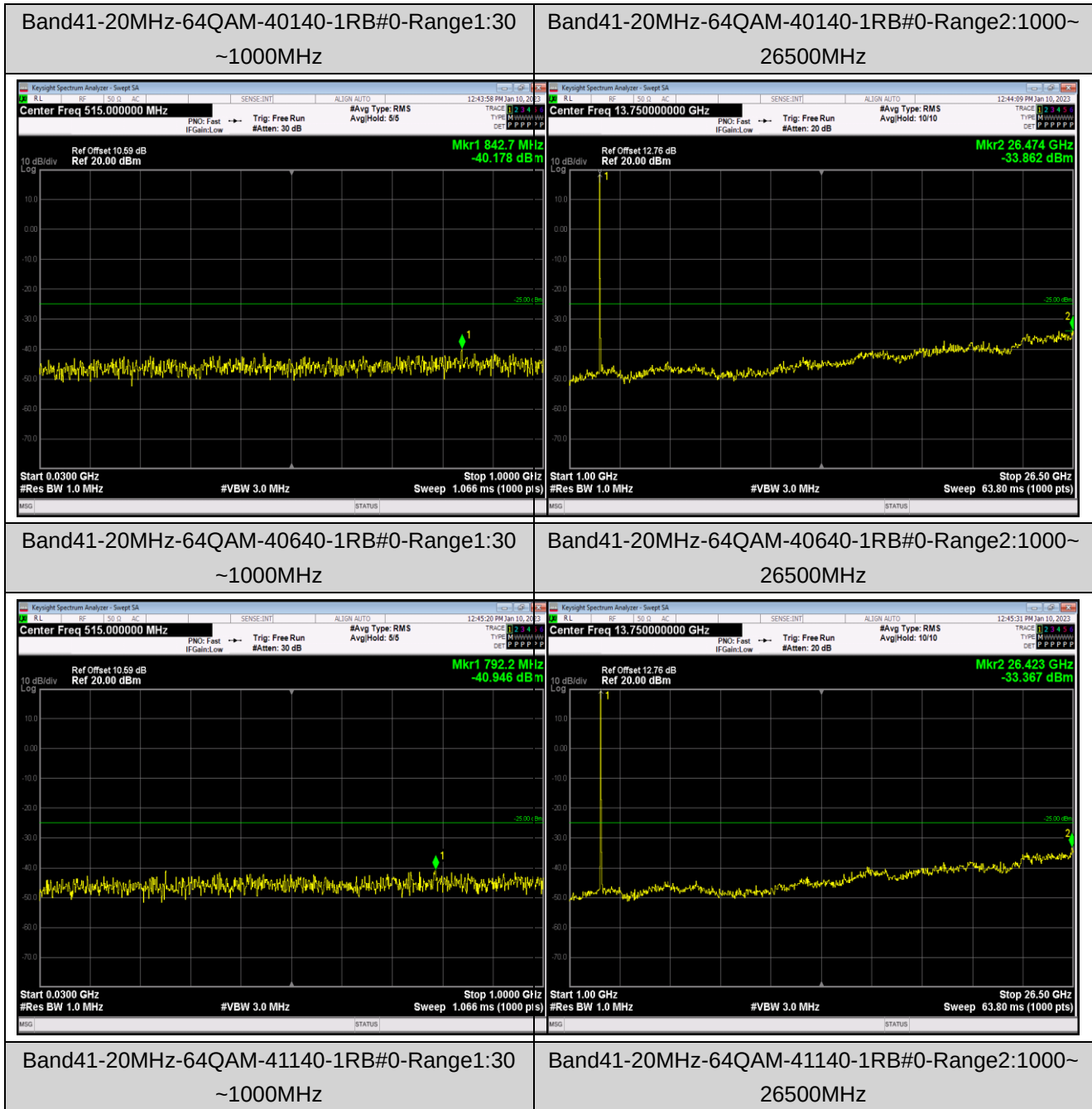


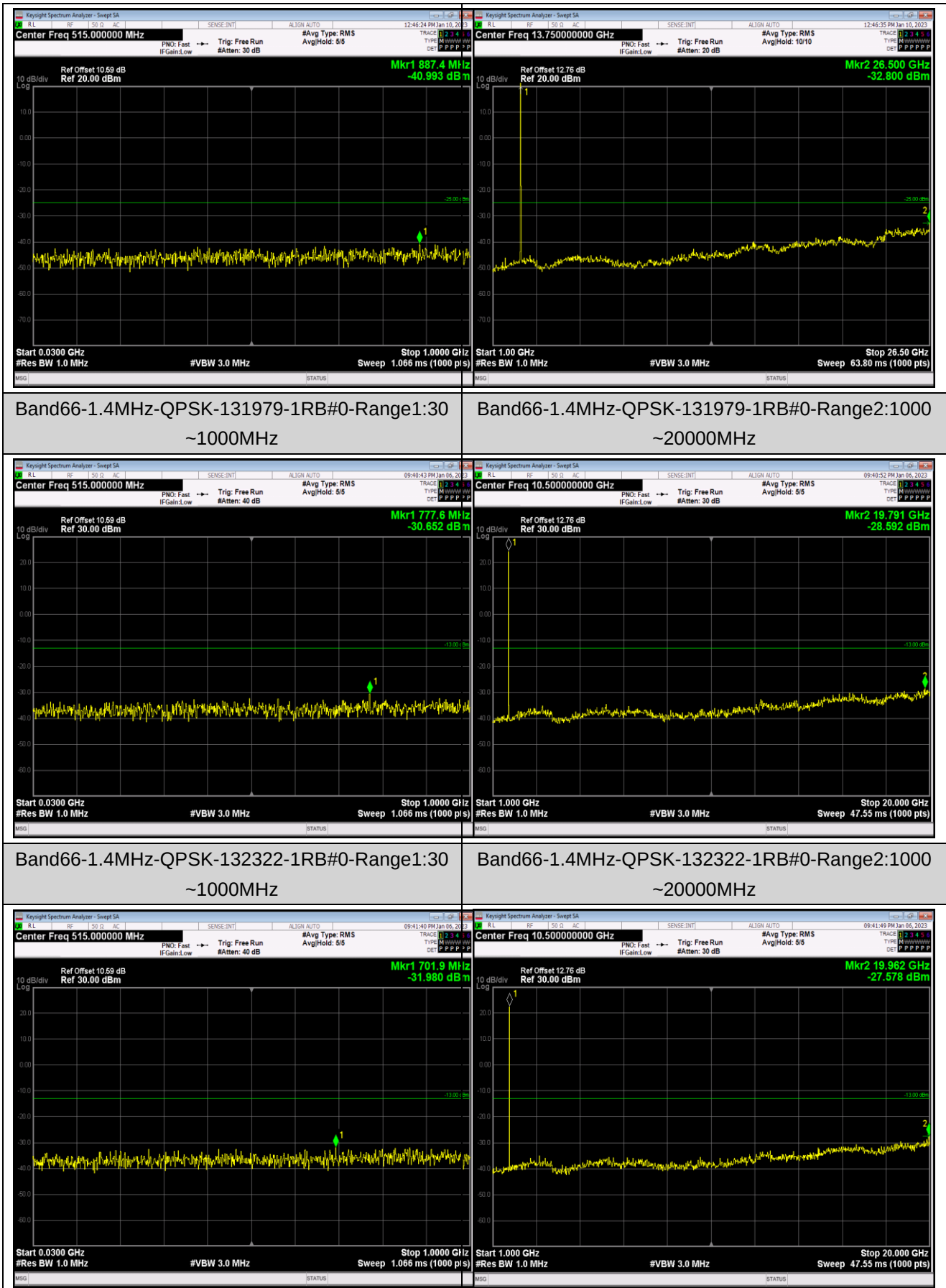


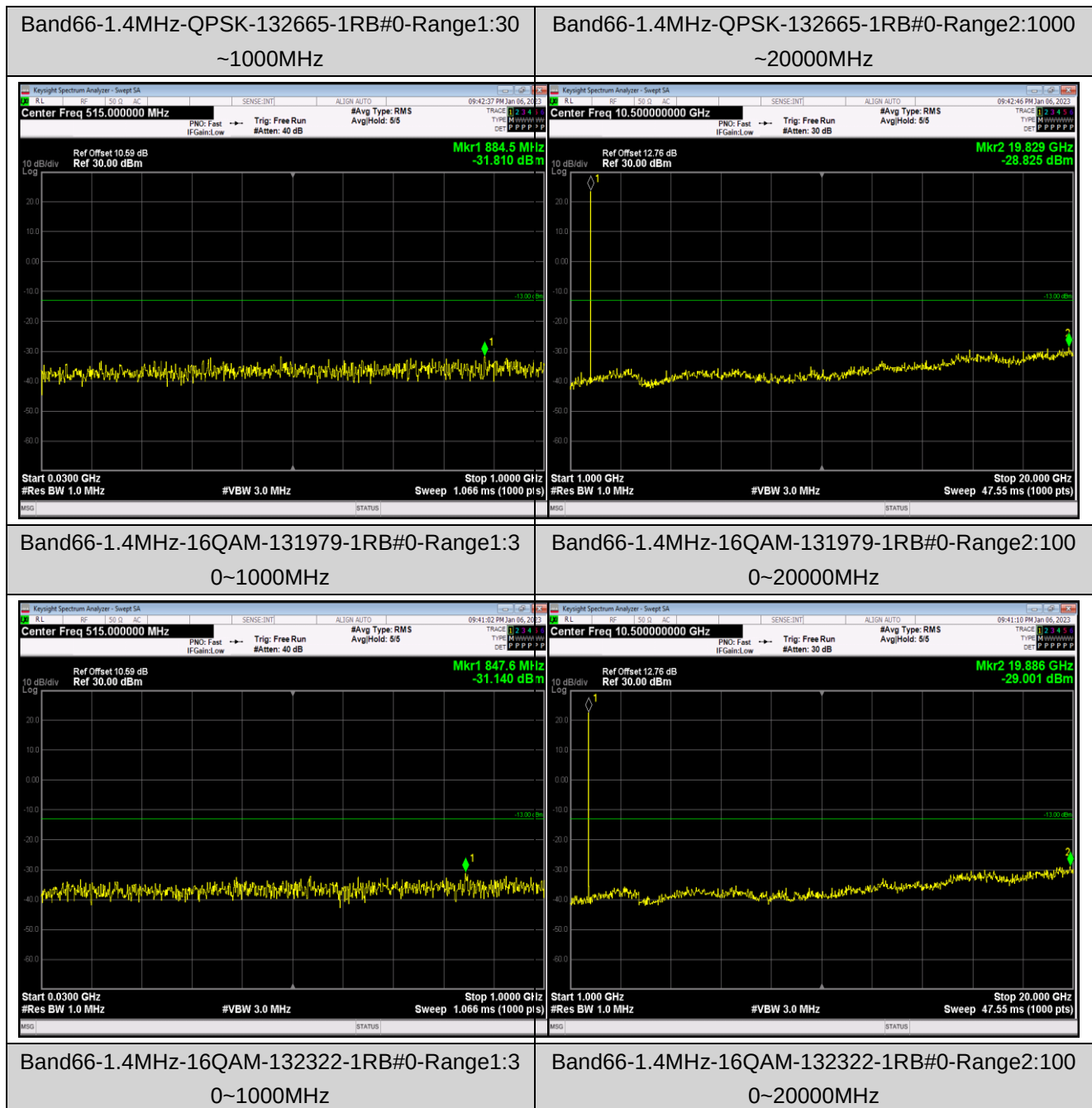


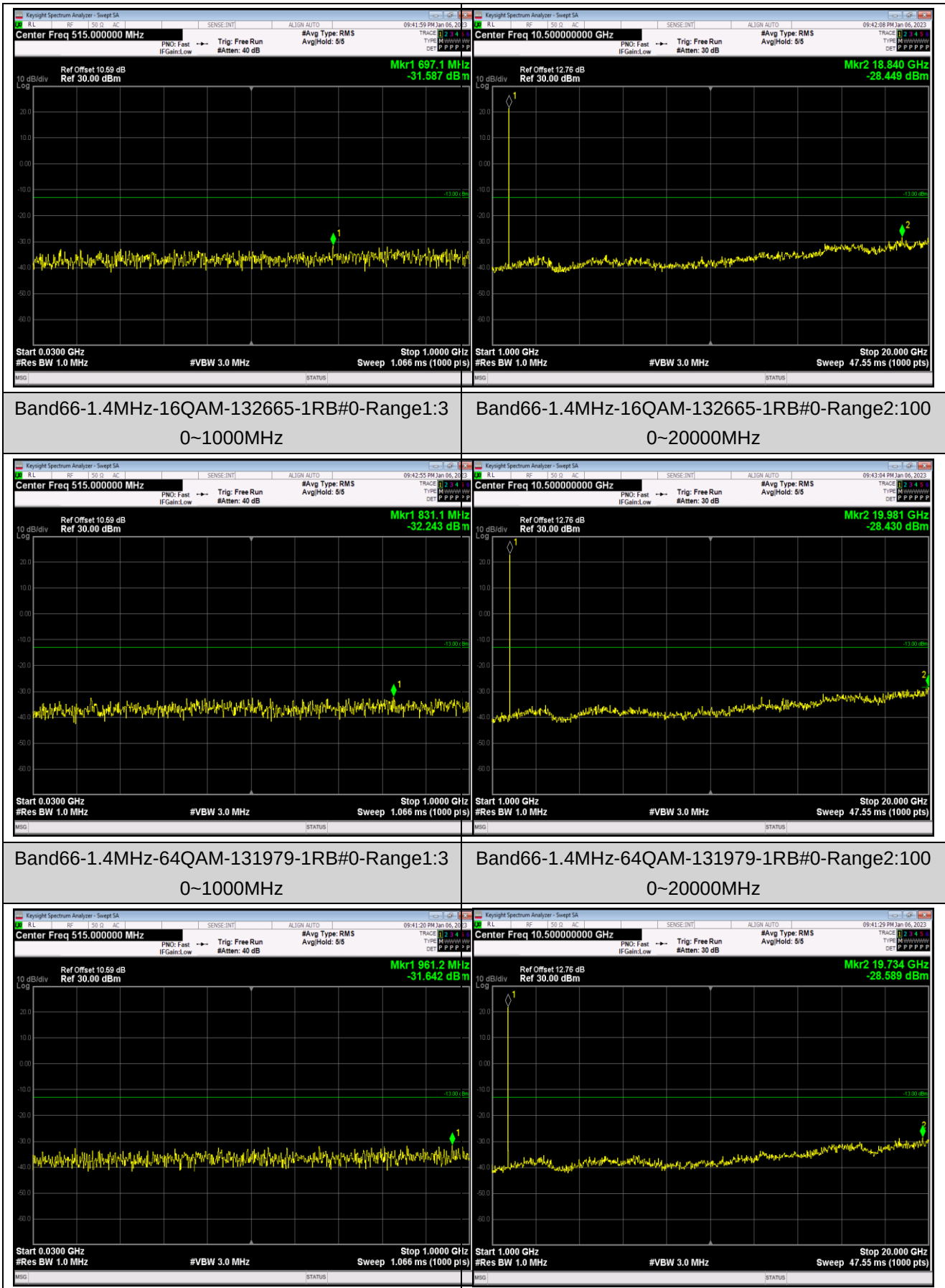


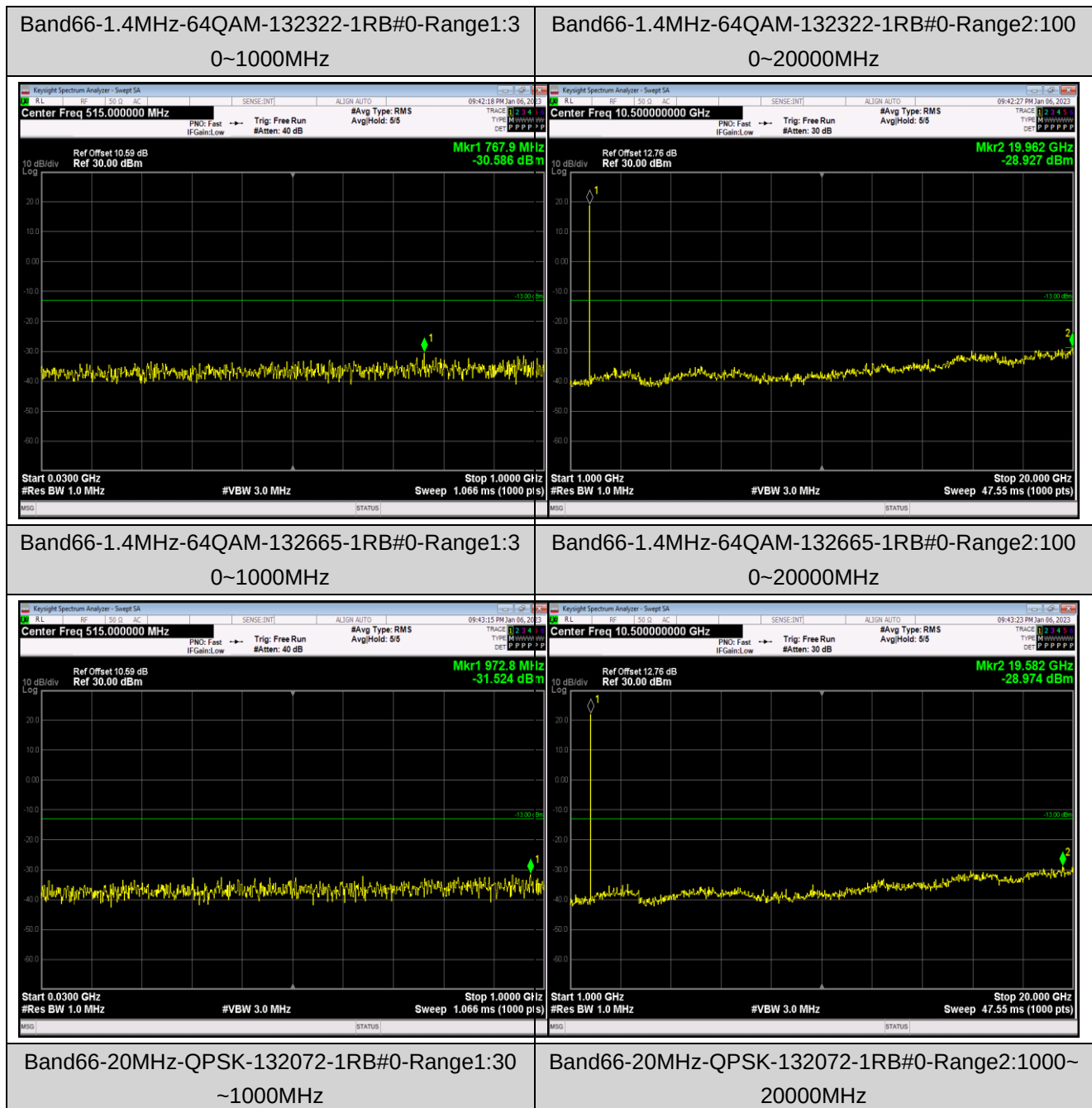


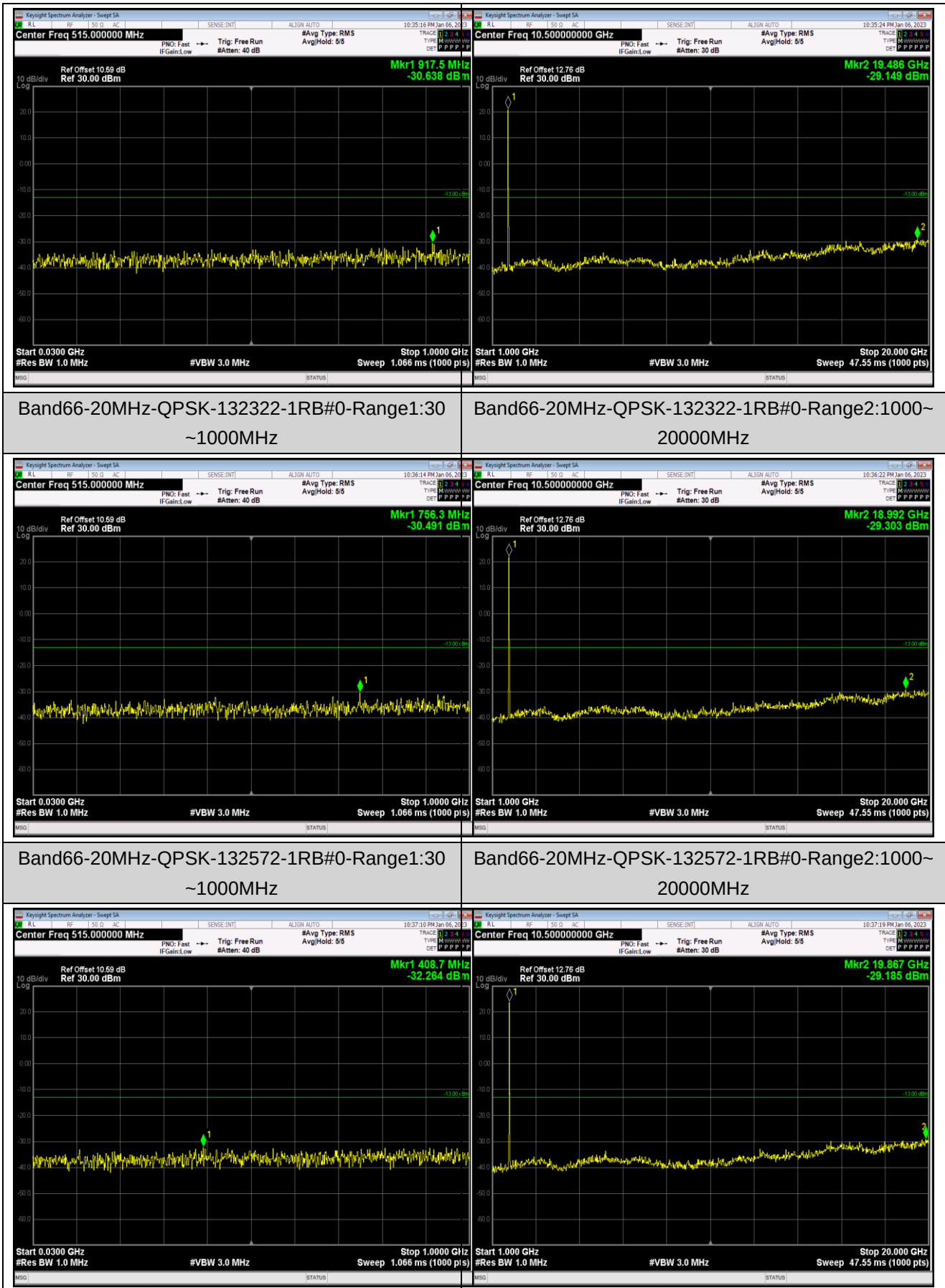


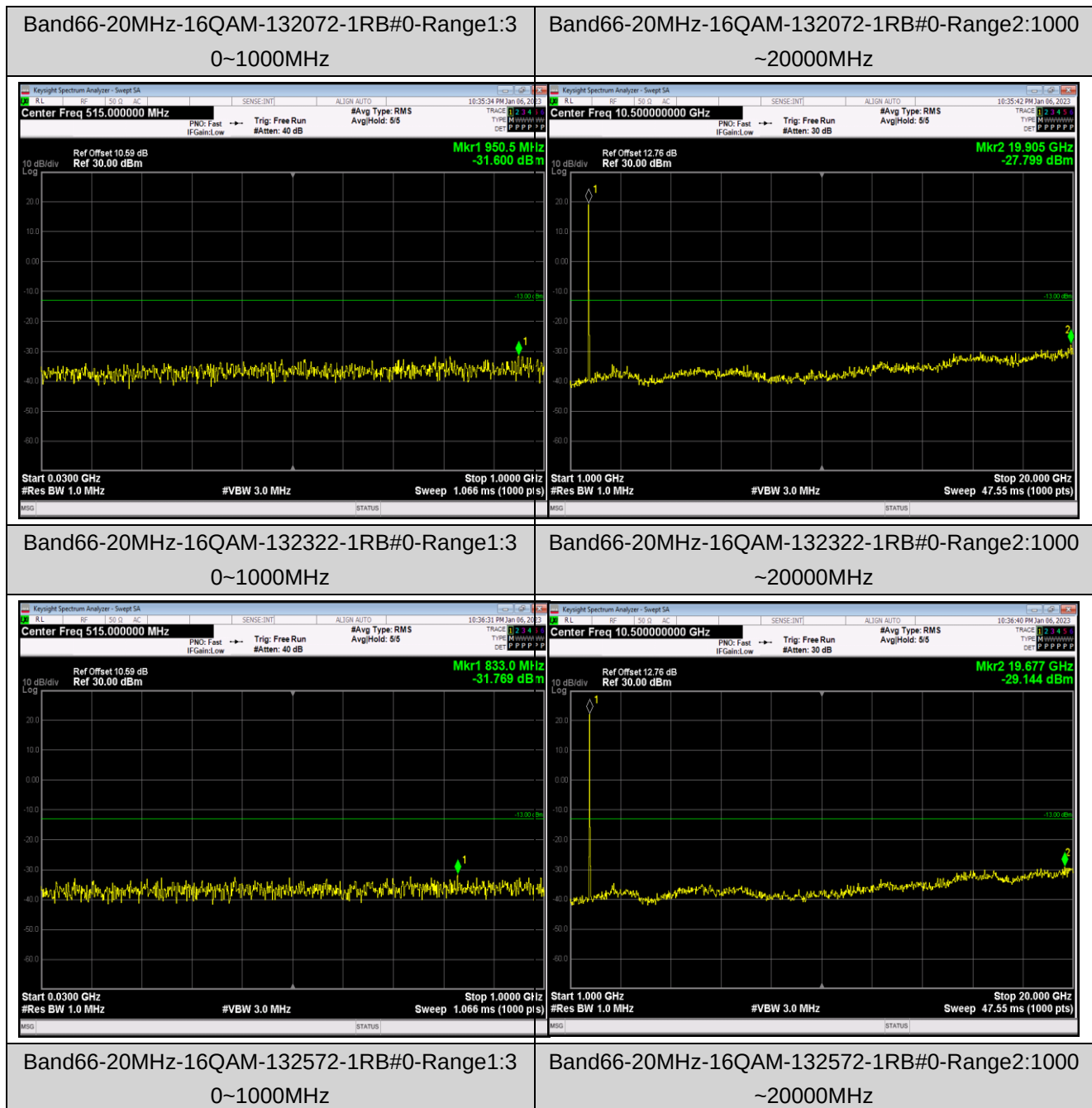


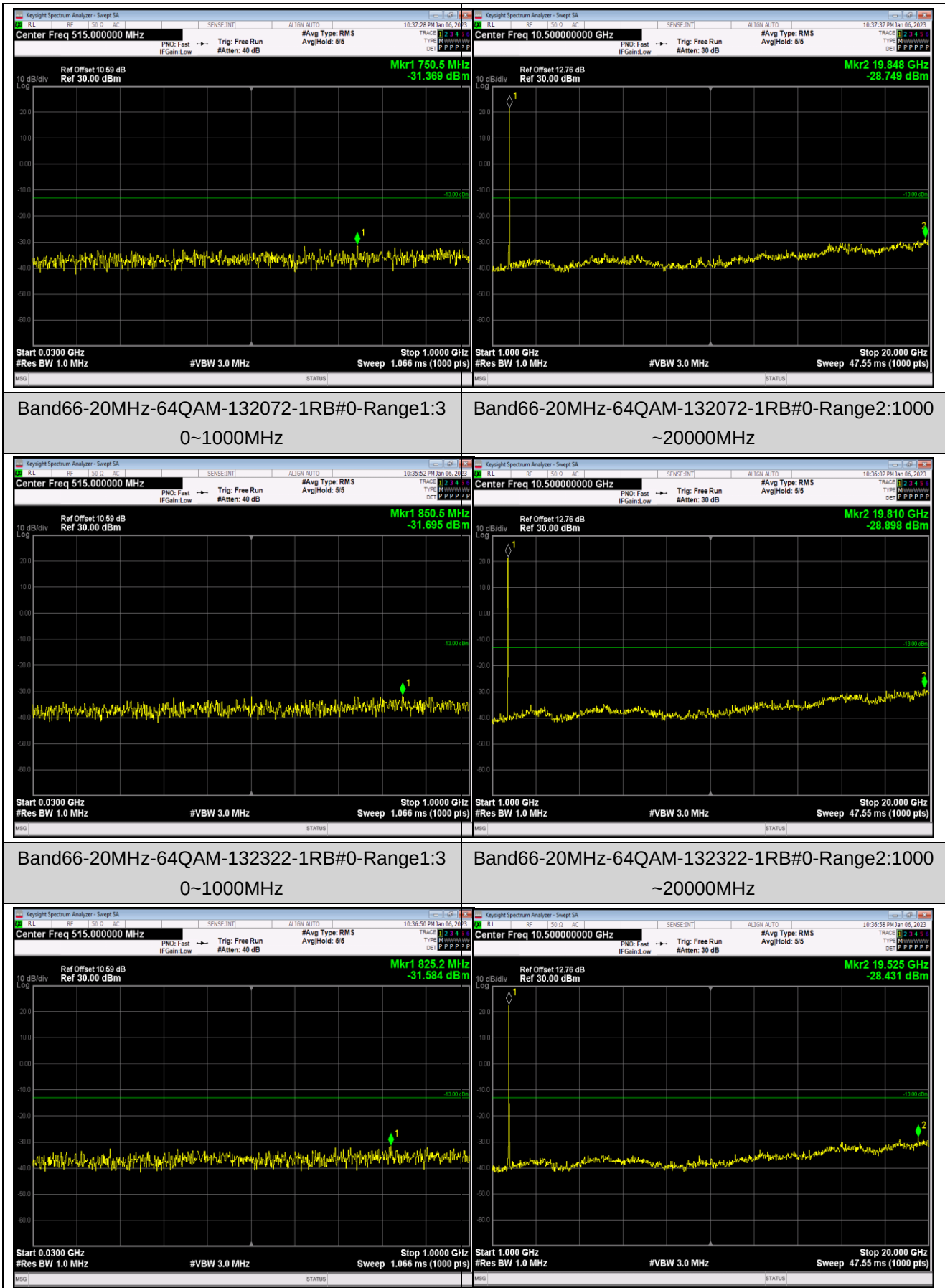


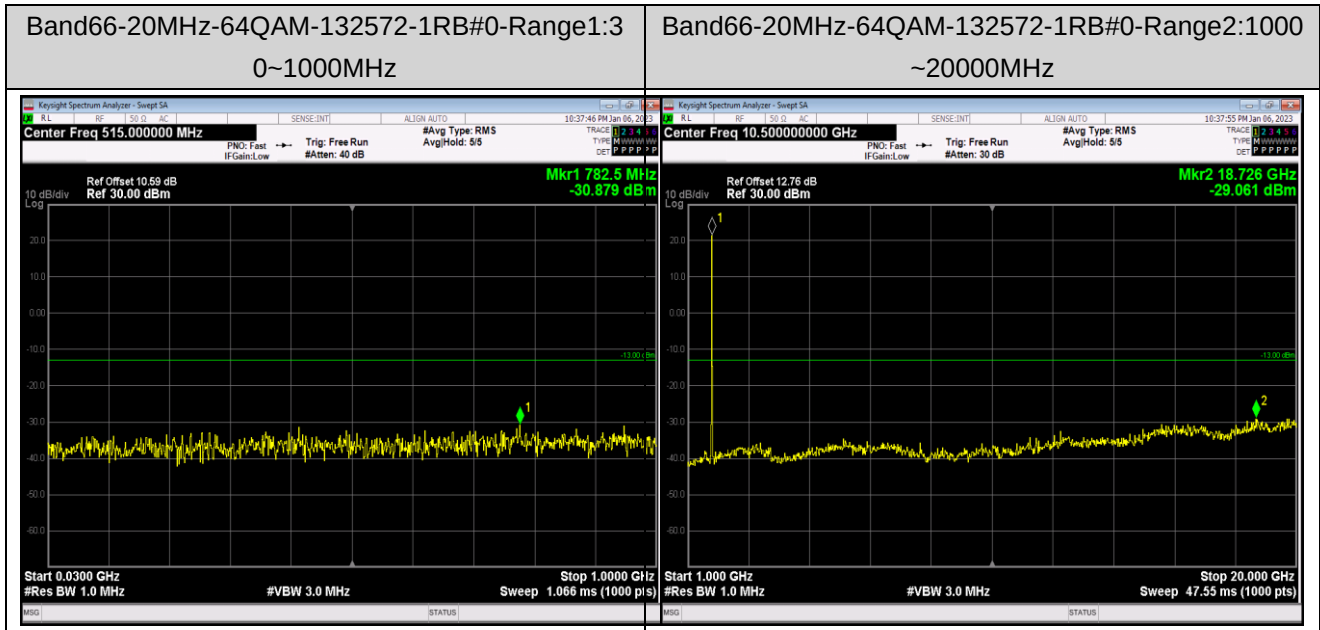












## Appendix F: Frequency Stability

### Test Result

LTE Band 2 part:

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz |                  |                 |           |                                   |        |
|----------------------------------------------------------------------------------|------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature                                                                      |                  |                 |           |                                   |        |
| Power supplied (Vdc)                                                             | Temperature (°C) | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                  |                  | Hz              | ppm       |                                   |        |
| QPSK                                                                             |                  |                 |           |                                   |        |
| 3.87                                                                             | -30              | -8.43           | -0.004484 | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | 12.57           | 0.006686  |                                   |        |
|                                                                                  | -10              | 15.08           | 0.008021  |                                   |        |
|                                                                                  | 0                | -15.06          | -0.008011 |                                   |        |
|                                                                                  | 10               | -14.43          | -0.007676 |                                   |        |
|                                                                                  | 20               | -6.71           | -0.003569 |                                   |        |
|                                                                                  | 30               | 11.74           | 0.006245  |                                   |        |
|                                                                                  | 40               | -12.96          | -0.006894 |                                   |        |
|                                                                                  | 50               | -13.89          | -0.007388 |                                   |        |
| 16QAM                                                                            |                  |                 |           |                                   |        |
| 3.87                                                                             | -30              | -8.01           | -0.004261 | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | -10.21          | -0.005431 |                                   |        |
|                                                                                  | -10              | -12.96          | -0.006894 |                                   |        |
|                                                                                  | 0                | -5.76           | -0.003064 |                                   |        |
|                                                                                  | 10               | -18.83          | -0.010016 |                                   |        |
|                                                                                  | 20               | -13.83          | -0.007356 |                                   |        |
|                                                                                  | 30               | -6.08           | -0.003234 |                                   |        |
|                                                                                  | 40               | 10.13           | 0.005388  |                                   |        |
|                                                                                  | 50               | 10.67           | 0.005676  |                                   |        |
| 64QAM                                                                            |                  |                 |           |                                   |        |
| 3.87                                                                             | -30              | -13.70          | -0.007287 | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | -10.81          | -0.005750 |                                   |        |
|                                                                                  | -10              | 10.29           | 0.005473  |                                   |        |
|                                                                                  | 0                | -8.93           | -0.004750 |                                   |        |
|                                                                                  | 10               | 11.90           | 0.006330  |                                   |        |
|                                                                                  | 20               | 9.84            | 0.005234  |                                   |        |
|                                                                                  | 30               | 10.39           | 0.005527  |                                   |        |
|                                                                                  | 40               | -3.63           | -0.001931 |                                   |        |
|                                                                                  | 50               | -20.18          | -0.010734 |                                   |        |

| Voltage                                                                                                          |                         |                 |           |                                      |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|--------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power supplied<br>(Vdc) | Frequency error |           | Limit (ppm)                          | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                      |        |
| QPSK                                                                                                             |                         |                 |           |                                      |        |
| 25                                                                                                               | 3.45                    | -9.66           | -0.005138 | Within authorized<br>band for Band 2 | Pass   |
|                                                                                                                  | 3.87                    | -13.73          | -0.007303 |                                      |        |
|                                                                                                                  | 4.45                    | -12.57          | -0.006686 |                                      |        |
| 16QAM                                                                                                            |                         |                 |           |                                      |        |
| 25                                                                                                               | 3.45                    | 12.52           | 0.006660  | Within authorized<br>band for Band 2 | Pass   |
|                                                                                                                  | 3.87                    | -16.52          | -0.008787 |                                      |        |
|                                                                                                                  | 4.45                    | -10.76          | -0.005723 |                                      |        |
| 64QAM                                                                                                            |                         |                 |           |                                      |        |
| 25                                                                                                               | 3.45                    | -14.15          | -0.007527 | Within authorized<br>band for Band 2 | Pass   |
|                                                                                                                  | 3.87                    | -17.58          | -0.009351 |                                      |        |
|                                                                                                                  | 4.45                    | -14.22          | -0.007564 |                                      |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                      |        |