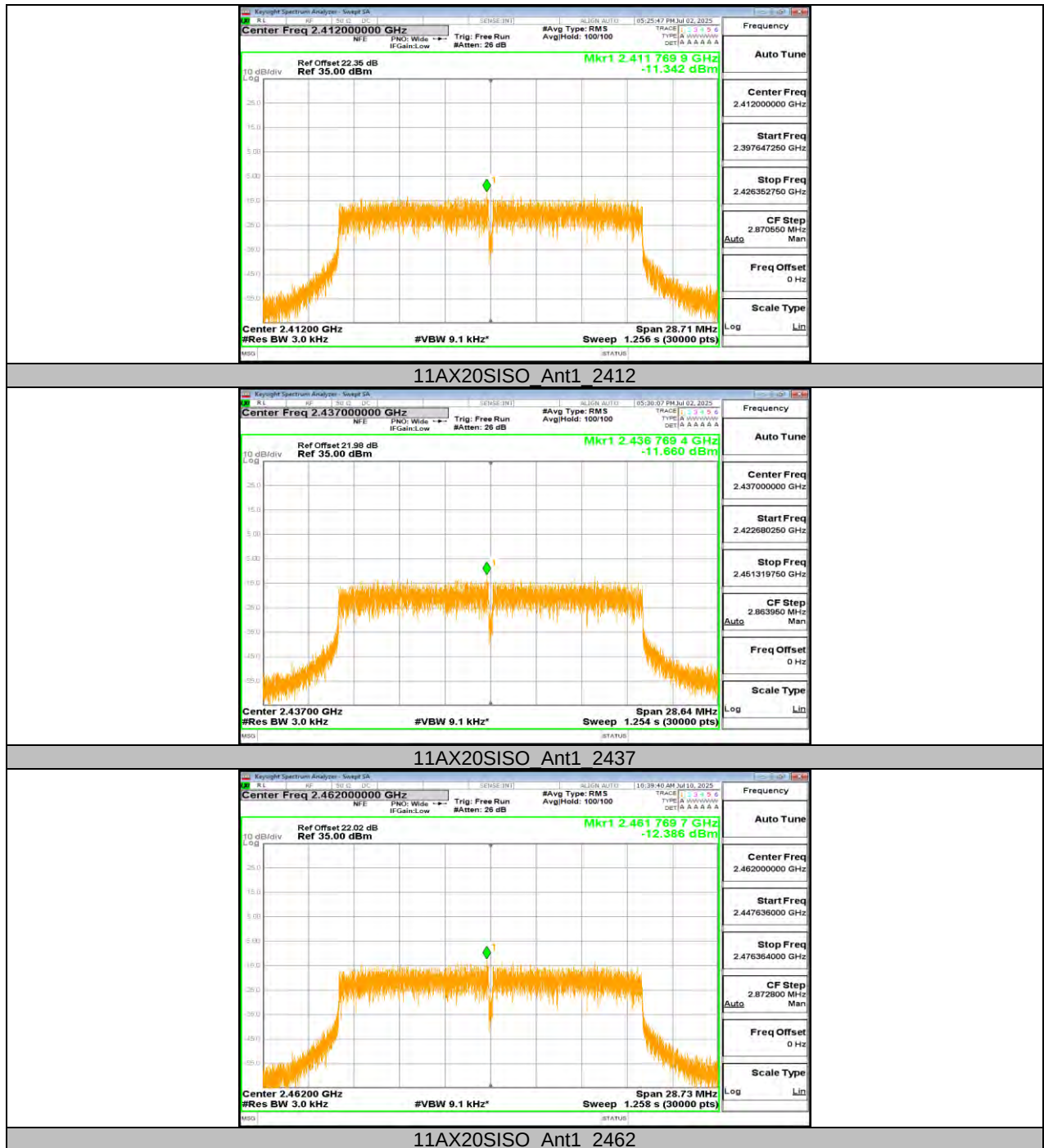




## 10.5. APPENDIX E: BAND EDGE MEASUREMENTS

### 10.5.1. Test Result

#### FPV board

| Test Mode  | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|-----------------|----------------|-------------|------------|---------|
| 11B        | Ant1    | Low    | 2412            | 12.11          | -32.67      | ≤-17.89    | PASS    |
|            |         | High   | 2462            | 12.29          | -38.88      | ≤-17.71    | PASS    |
| 11G        | Ant1    | Low    | 2412            | 7.05           | -24.17      | ≤-22.95    | PASS    |
|            |         | High   | 2462            | 7.66           | -29.72      | ≤-22.34    | PASS    |
| 11N20SISO  | Ant1    | Low    | 2412            | 6.11           | -25.06      | ≤-23.89    | PASS    |
|            |         | High   | 2462            | 6.02           | -34.08      | ≤-23.98    | PASS    |
| 11AX20SISO | Ant1    | Low    | 2412            | 2.54           | -28.43      | ≤-27.46    | PASS    |
|            |         | High   | 2462            | 2.51           | -40.96      | ≤-27.49    | PASS    |

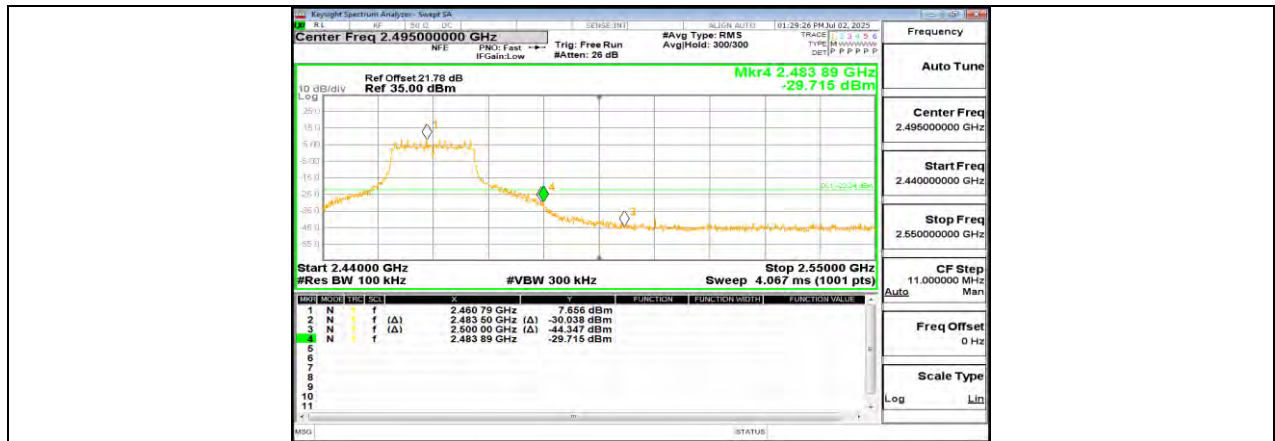
#### Radar board

| Test Mode  | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|-----------------|----------------|-------------|------------|---------|
| 11B        | Ant1    | Low    | 2412            | 6.72           | -41.14      | ≤-23.28    | PASS    |
|            |         | High   | 2462            | 7.04           | -42.9       | ≤-22.96    | PASS    |
| 11G        | Ant1    | Low    | 2412            | 8.01           | -22.84      | ≤-21.99    | PASS    |
|            |         | High   | 2462            | 11.45          | -39.59      | ≤-18.55    | PASS    |
| 11N20SISO  | Ant1    | Low    | 2412            | 6.33           | -27.56      | ≤-23.67    | PASS    |
|            |         | High   | 2462            | 6.02           | -36.01      | ≤-23.98    | PASS    |
| 11AX20SISO | Ant1    | Low    | 2412            | 6.21           | -24.04      | ≤-23.79    | PASS    |
|            |         | High   | 2462            | 5.37           | -35.43      | ≤-24.63    | PASS    |

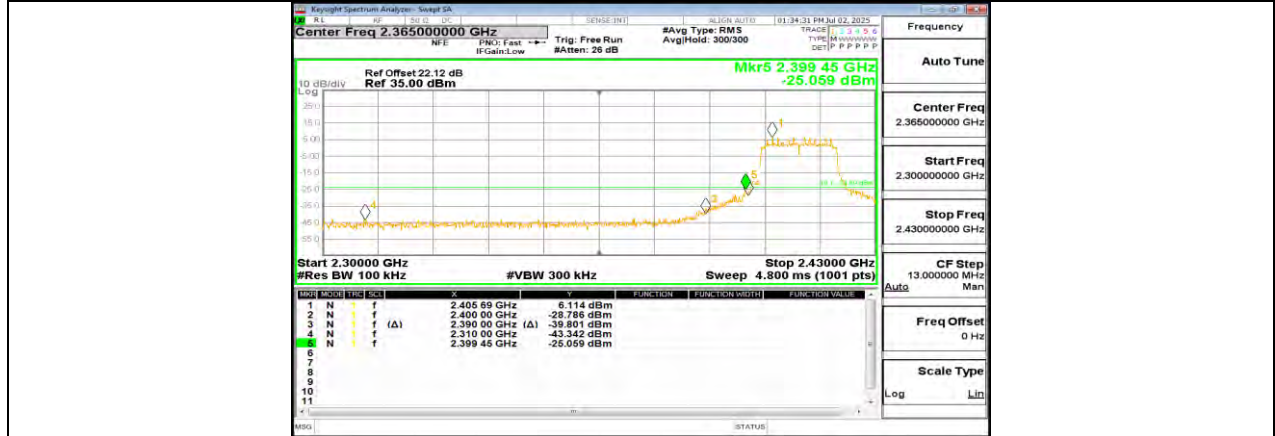
## 10.5.2. Test Graphs

FPV board





11G Ant1 High 2462

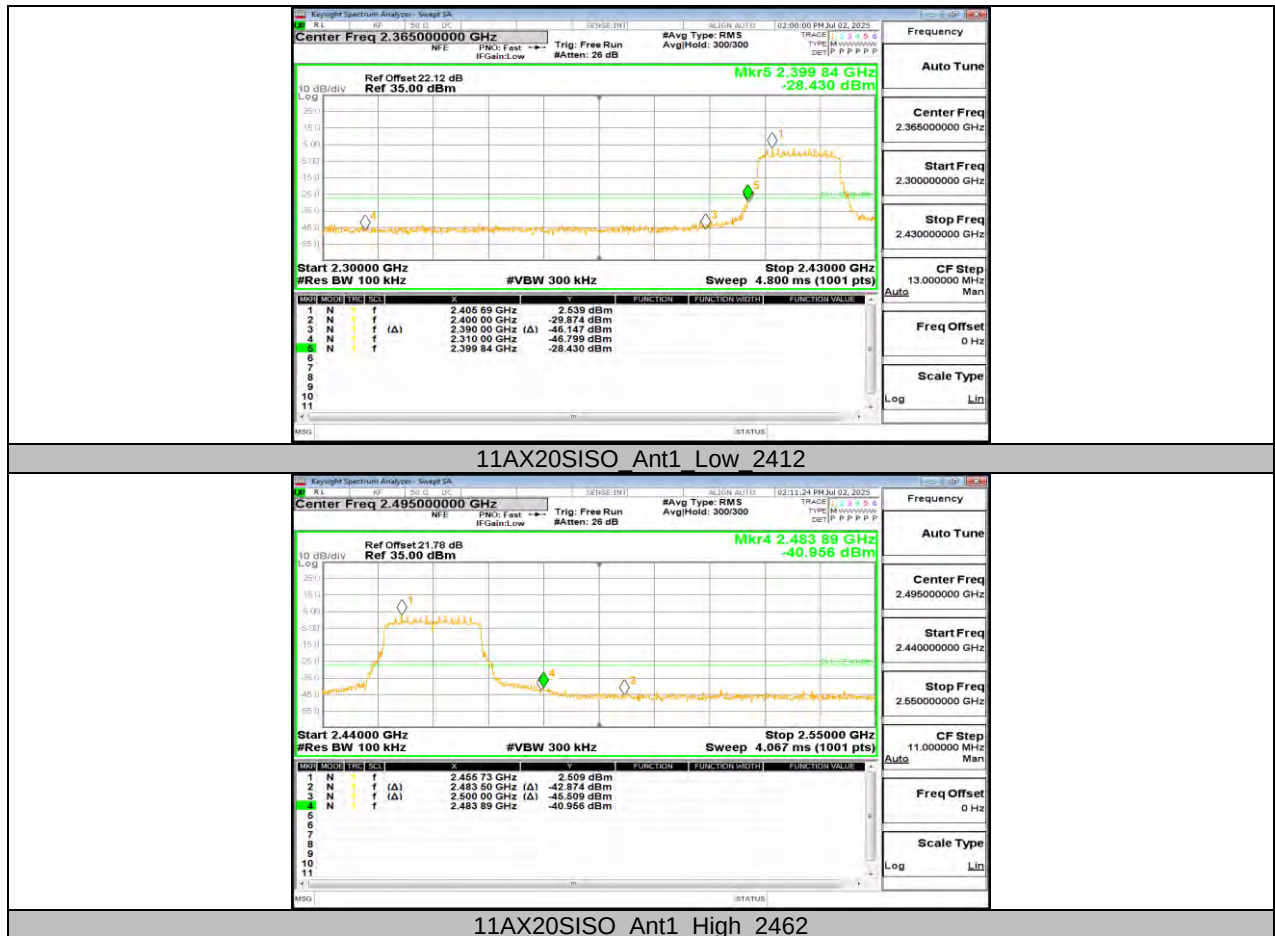


11N20SISO Ant1 Low 2412



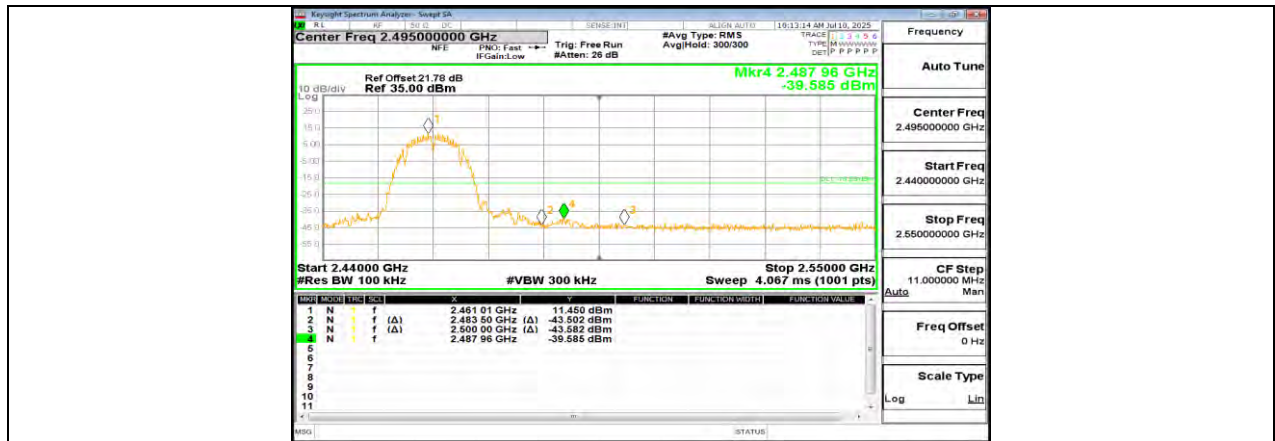
11N20SISO Ant1 High 2462



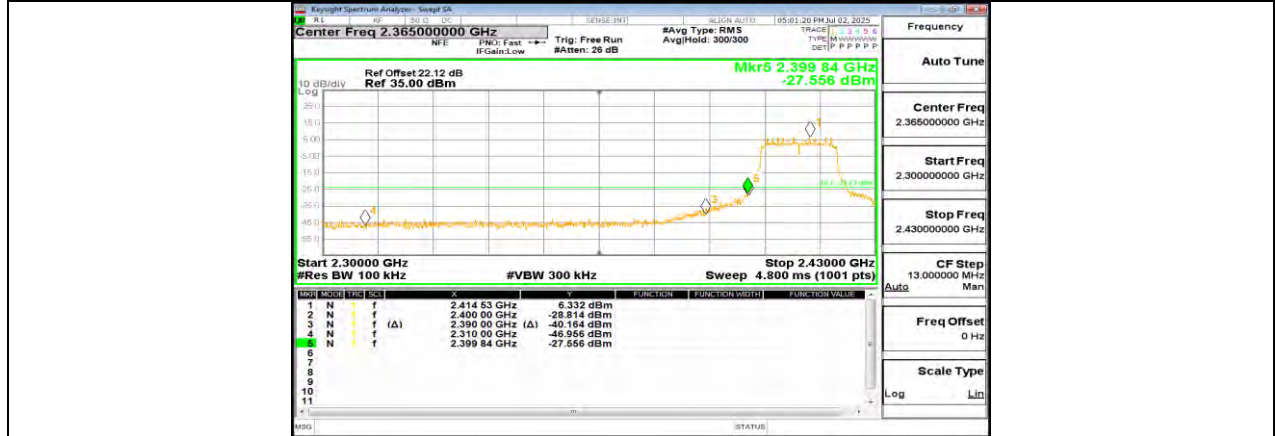


## Radars board

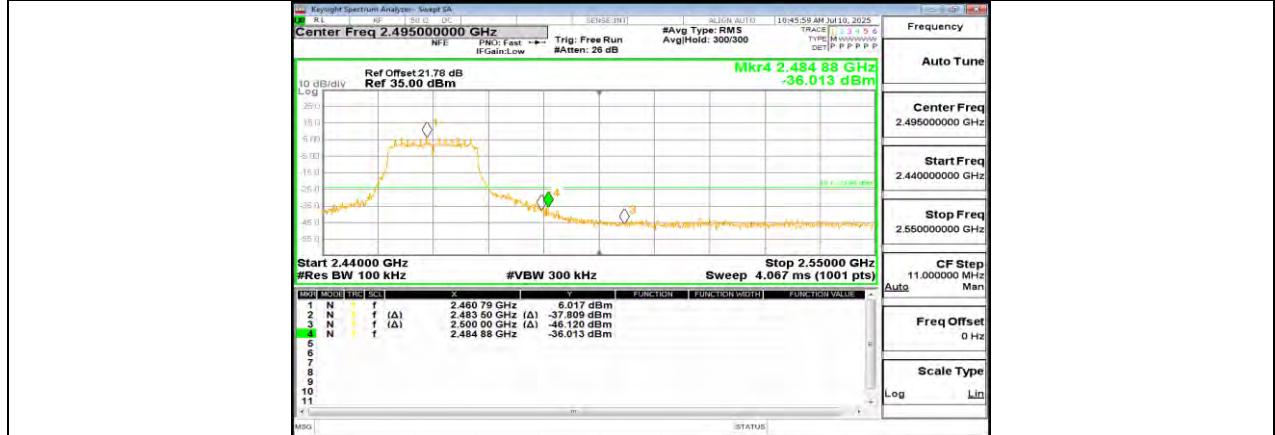




11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462





## 10.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

### 10.6.1. Test Result

FPV board

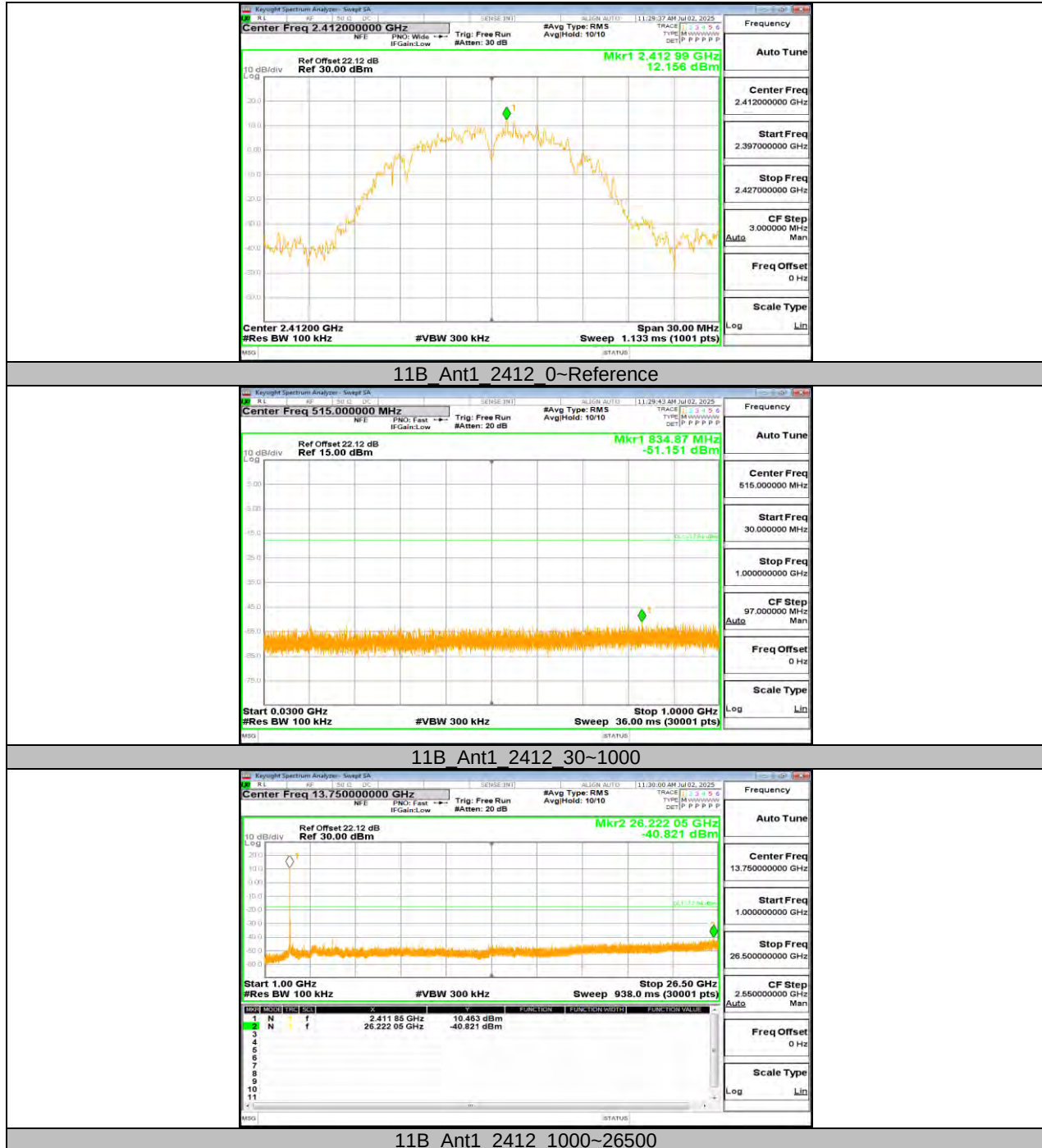
| Test Mode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | Result [dBm] | Limit [dBm]   | Verdict |
|------------|---------|----------------|-----------------|--------------|---------------|---------|
| 11B        | Ant1    | 2412           | Reference       | 12.16        | ---           | PASS    |
|            |         |                | 30~1000         | -51.15       | $\leq -17.84$ | PASS    |
|            |         |                | 1000~26500      | -40.82       | $\leq -17.84$ | PASS    |
|            |         | 2437           | Reference       | 10.57        | ---           | PASS    |
|            |         |                | 30~1000         | -49.65       | $\leq -19.43$ | PASS    |
|            |         |                | 1000~26500      | -41.69       | $\leq -19.43$ | PASS    |
|            |         | 2462           | Reference       | 12.42        | ---           | PASS    |
|            |         |                | 30~1000         | -50.81       | $\leq -17.58$ | PASS    |
|            |         |                | 1000~26500      | -40.92       | $\leq -17.58$ | PASS    |
| 11G        | Ant1    | 2412           | Reference       | 6.00         | ---           | PASS    |
|            |         |                | 30~1000         | -49.7        | $\leq -24$    | PASS    |
|            |         |                | 1000~26500      | -40.38       | $\leq -24$    | PASS    |
|            |         | 2437           | Reference       | 5.46         | ---           | PASS    |
|            |         |                | 30~1000         | -51.24       | $\leq -24.54$ | PASS    |
|            |         |                | 1000~26500      | -41.97       | $\leq -24.54$ | PASS    |
|            |         | 2462           | Reference       | 6.91         | ---           | PASS    |
|            |         |                | 30~1000         | -50.83       | $\leq -23.09$ | PASS    |
|            |         |                | 1000~26500      | -41.4        | $\leq -23.09$ | PASS    |
| 11N20SISO  | Ant1    | 2412           | Reference       | 5.94         | ---           | PASS    |
|            |         |                | 30~1000         | -49.41       | $\leq -24.06$ | PASS    |
|            |         |                | 1000~26500      | -40.26       | $\leq -24.06$ | PASS    |
|            |         | 2437           | Reference       | 2.50         | ---           | PASS    |
|            |         |                | 30~1000         | -50.76       | $\leq -27.5$  | PASS    |
|            |         |                | 1000~26500      | -41.4        | $\leq -27.5$  | PASS    |
|            |         | 2462           | Reference       | 5.91         | ---           | PASS    |
|            |         |                | 30~1000         | -50.56       | $\leq -24.09$ | PASS    |
|            |         |                | 1000~26500      | -41.83       | $\leq -24.09$ | PASS    |
| 11AX20SISO | Ant1    | 2412           | Reference       | -0.75        | ---           | PASS    |
|            |         |                | 30~1000         | -51.12       | $\leq -30.75$ | PASS    |
|            |         |                | 1000~26500      | -41.22       | $\leq -30.75$ | PASS    |
|            |         | 2437           | Reference       | -1.17        | ---           | PASS    |
|            |         |                | 30~1000         | -50.54       | $\leq -31.17$ | PASS    |
|            |         |                | 1000~26500      | -42.29       | $\leq -31.17$ | PASS    |
|            |         | 2462           | Reference       | -0.56        | ---           | PASS    |
|            |         |                | 30~1000         | -50.81       | $\leq -30.56$ | PASS    |
|            |         |                | 1000~26500      | -41.54       | $\leq -30.56$ | PASS    |

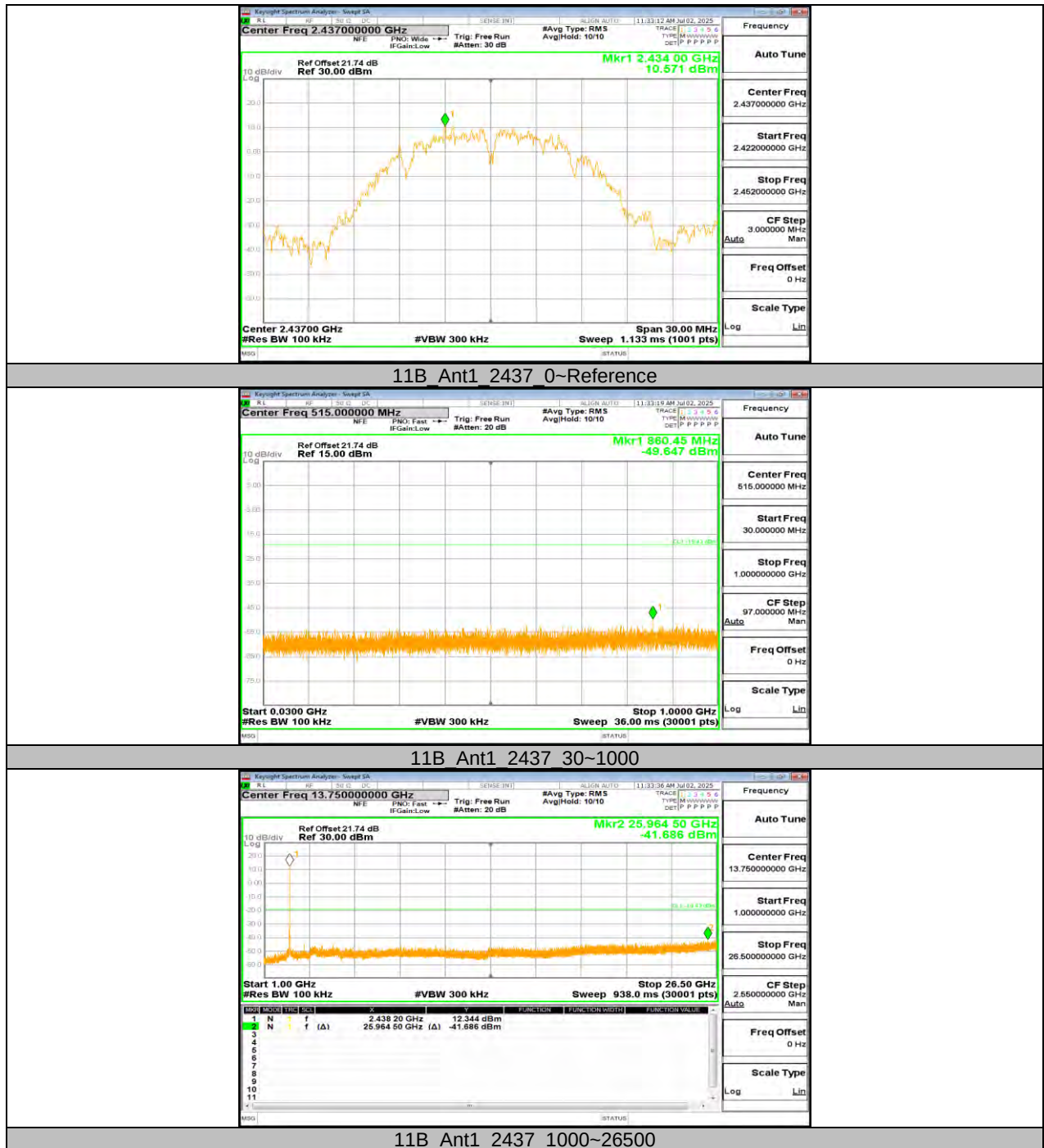
### Radar board

| Test Mode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | Result [dBm] | Limit [dBm]   | Verdict |
|------------|---------|----------------|-----------------|--------------|---------------|---------|
| 11B        | Ant1    | 2412           | Reference       | 5.03         | ---           | PASS    |
|            |         |                | 30~1000         | -50.2        | $\leq -24.97$ | PASS    |
|            |         |                | 1000~26500      | -40.33       | $\leq -24.97$ | PASS    |
|            |         | 2437           | Reference       | 4.59         | ---           | PASS    |
|            |         |                | 30~1000         | -50.67       | $\leq -25.41$ | PASS    |
|            |         |                | 1000~26500      | -40.62       | $\leq -25.41$ | PASS    |
|            |         | 2462           | Reference       | 5.67         | ---           | PASS    |
|            |         |                | 30~1000         | -50.39       | $\leq -24.33$ | PASS    |
|            |         |                | 1000~26500      | -41.47       | $\leq -24.33$ | PASS    |
| 11G        | Ant1    | 2412           | Reference       | 4.78         | ---           | PASS    |
|            |         |                | 30~1000         | -51.09       | $\leq -25.22$ | PASS    |
|            |         |                | 1000~26500      | -39.45       | $\leq -25.22$ | PASS    |
|            |         | 2437           | Reference       | 7.81         | ---           | PASS    |
|            |         |                | 30~1000         | -50.6        | $\leq -22.19$ | PASS    |
|            |         |                | 1000~26500      | -40.1        | $\leq -22.19$ | PASS    |
|            |         | 2462           | Reference       | 9.93         | ---           | PASS    |
|            |         |                | 30~1000         | -50.77       | $\leq -20.07$ | PASS    |
|            |         |                | 1000~26500      | -39.92       | $\leq -20.07$ | PASS    |
| 11N20SISO  | Ant1    | 2412           | Reference       | 3.99         | ---           | PASS    |
|            |         |                | 30~1000         | -51.2        | $\leq -26.01$ | PASS    |
|            |         |                | 1000~26500      | -40.53       | $\leq -26.01$ | PASS    |
|            |         | 2437           | Reference       | 5.25         | ---           | PASS    |
|            |         |                | 30~1000         | -51.56       | $\leq -24.75$ | PASS    |
|            |         |                | 1000~26500      | -41.05       | $\leq -24.75$ | PASS    |
|            |         | 2462           | Reference       | 2.75         | ---           | PASS    |
|            |         |                | 30~1000         | -50.67       | $\leq -27.25$ | PASS    |
|            |         |                | 1000~26500      | -41.52       | $\leq -27.25$ | PASS    |
| 11AX20SISO | Ant1    | 2412           | Reference       | 3.07         | ---           | PASS    |
|            |         |                | 30~1000         | -50.62       | $\leq -26.93$ | PASS    |
|            |         |                | 1000~26500      | -40.08       | $\leq -26.93$ | PASS    |
|            |         | 2437           | Reference       | 3.11         | ---           | PASS    |
|            |         |                | 30~1000         | -50.83       | $\leq -26.89$ | PASS    |
|            |         |                | 1000~26500      | -41.65       | $\leq -26.89$ | PASS    |
|            |         | 2462           | Reference       | 4.55         | ---           | PASS    |
|            |         |                | 30~1000         | -50.34       | $\leq -25.45$ | PASS    |
|            |         |                | 1000~26500      | -41.85       | $\leq -25.45$ | PASS    |

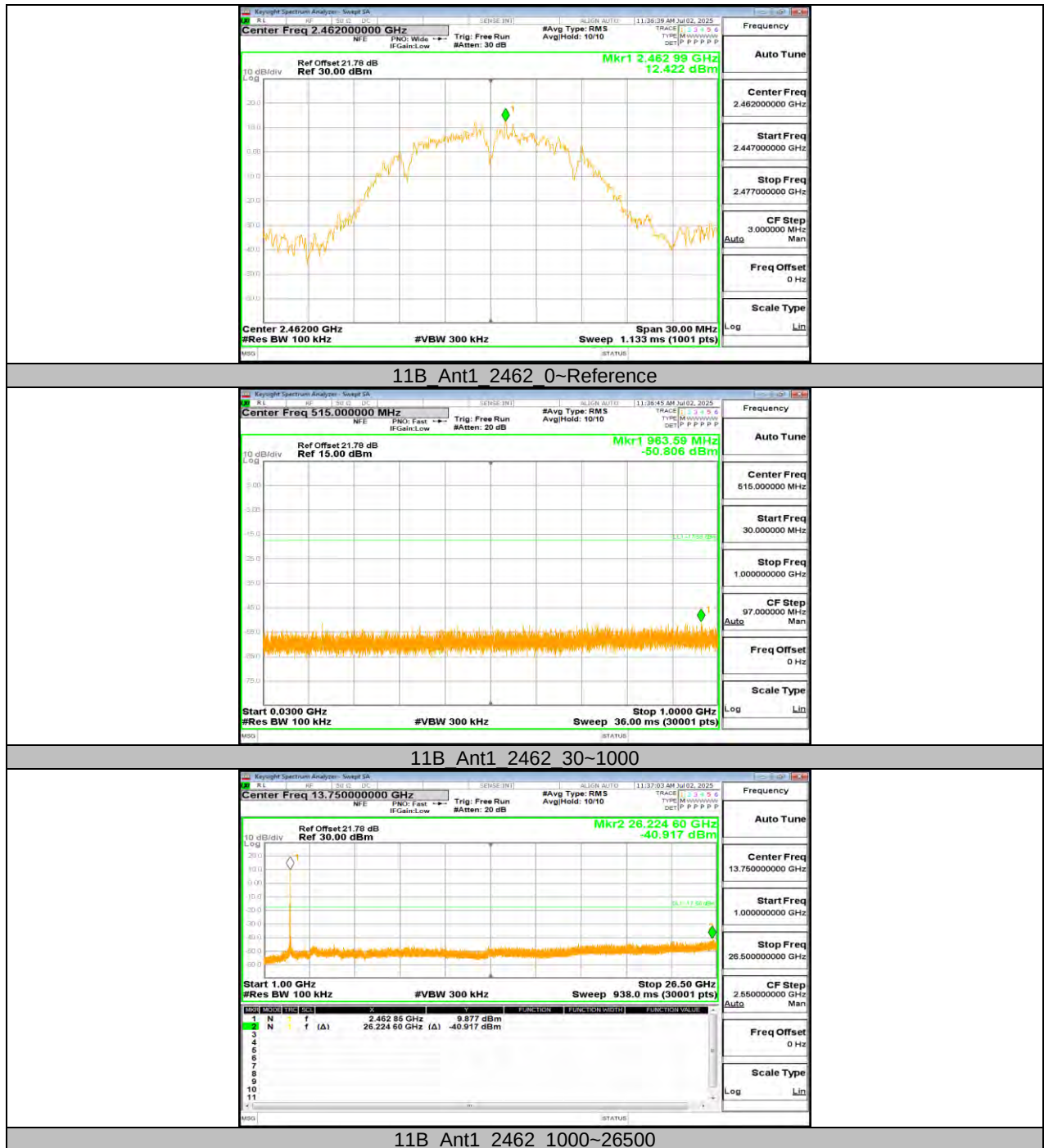
## 10.6.2. Test Graphs

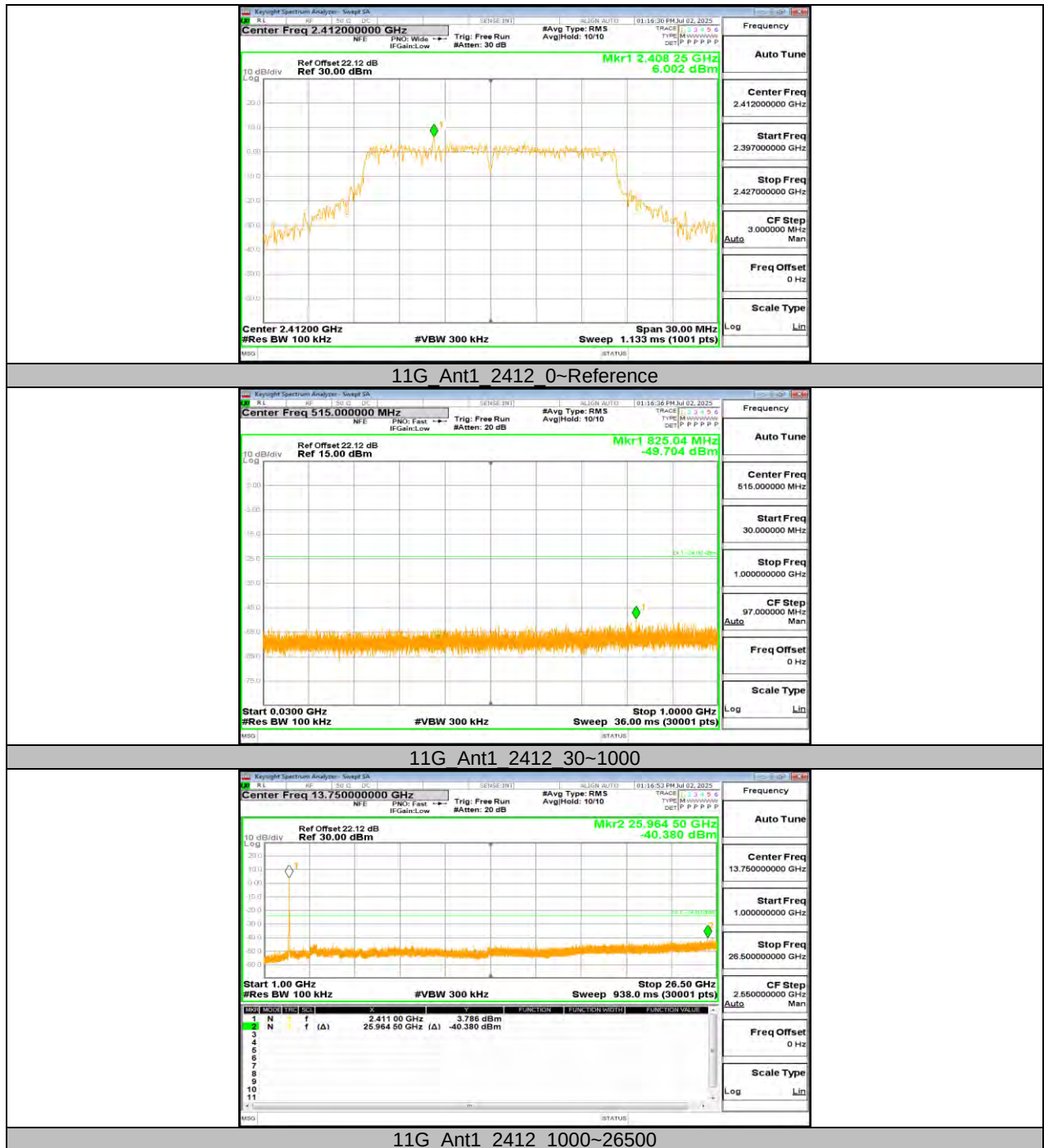
FPV board

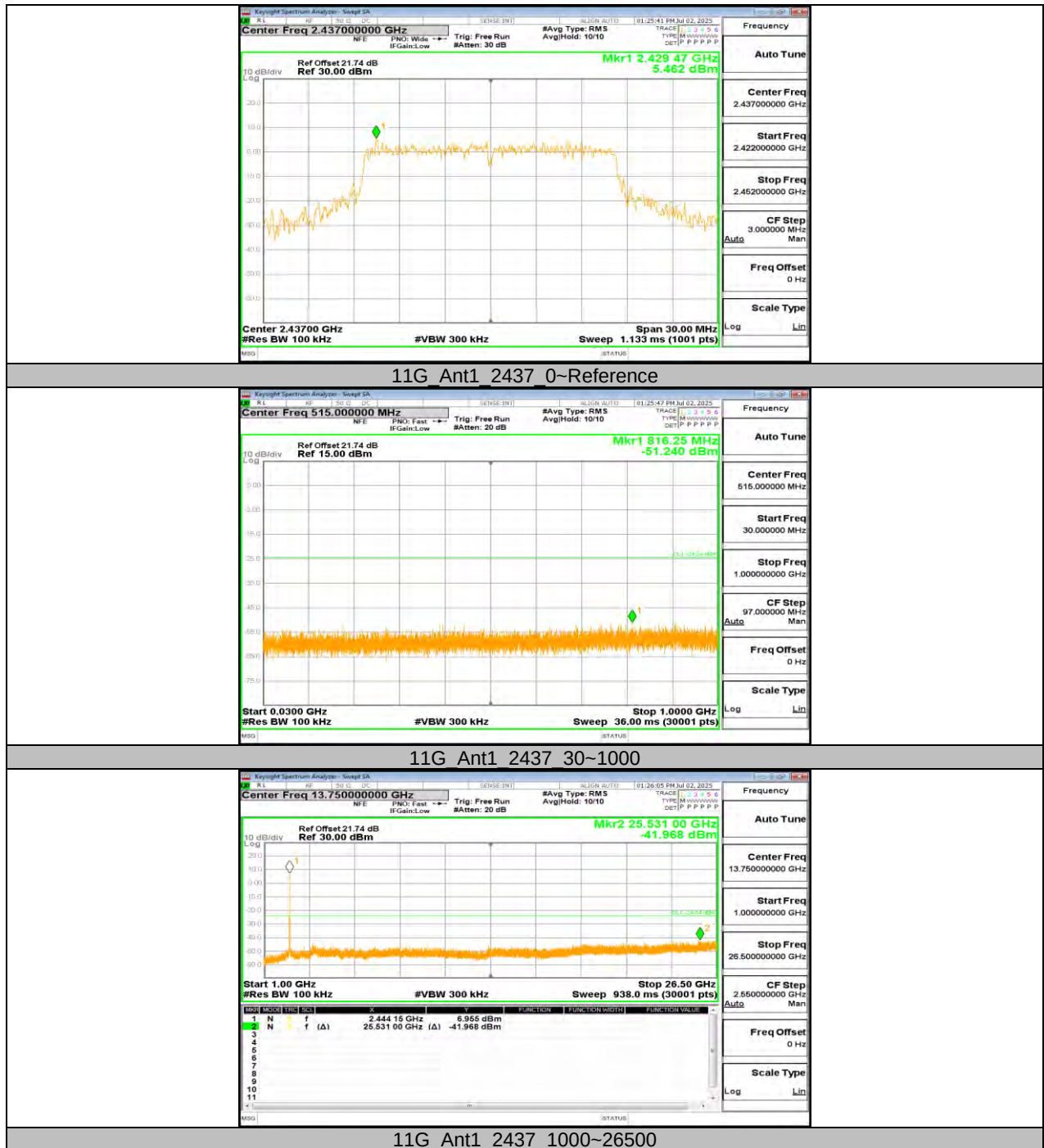




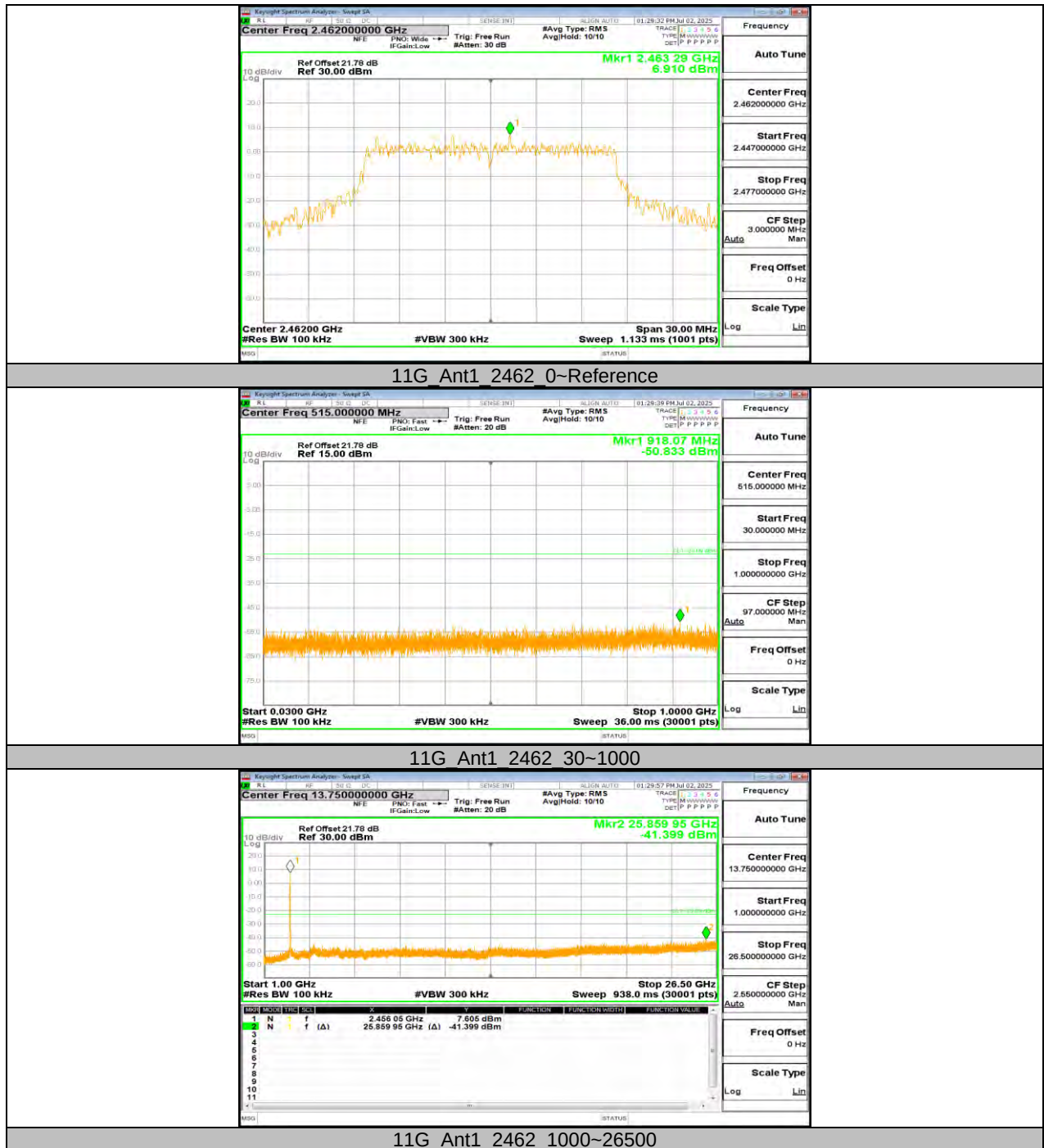




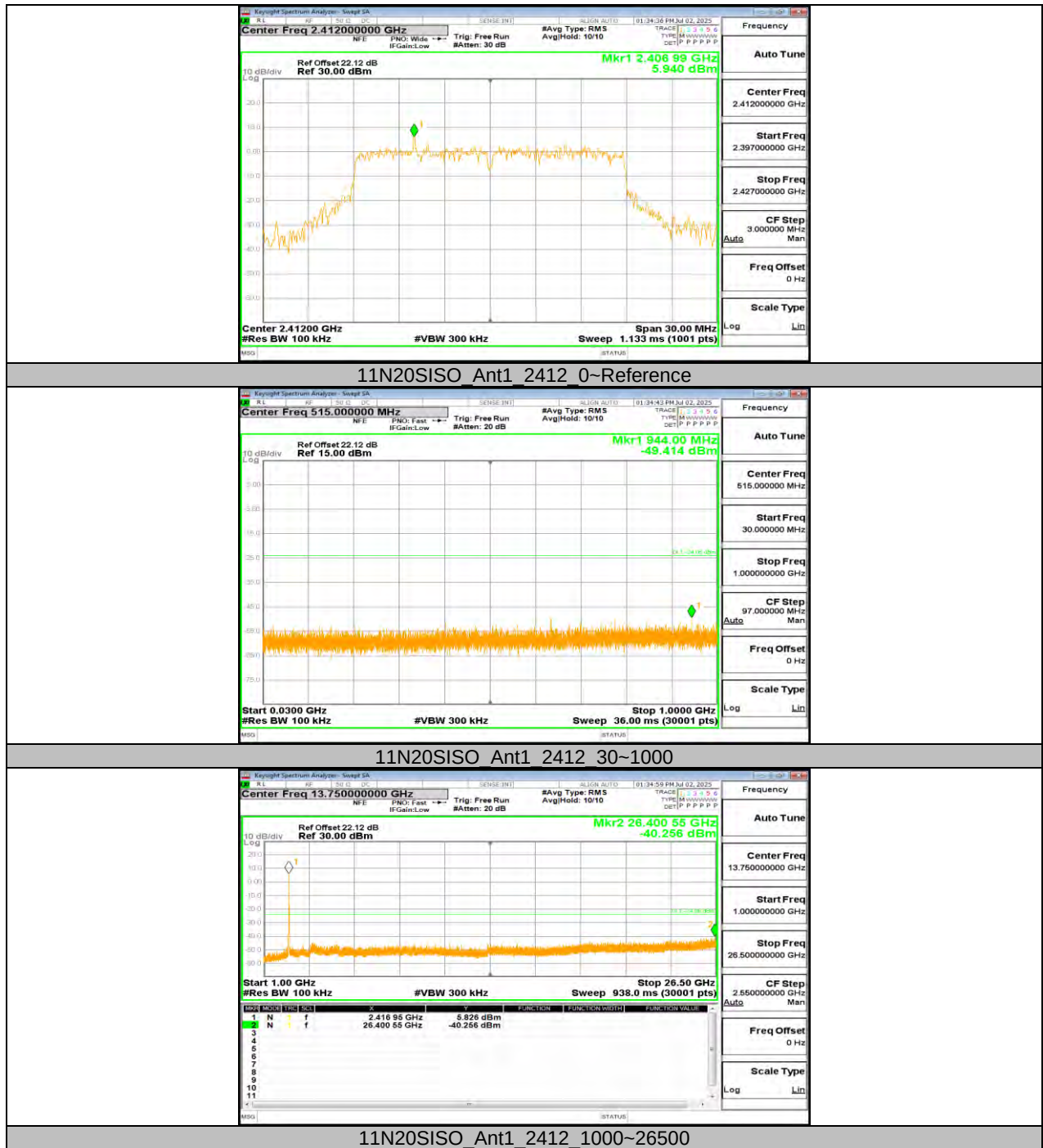


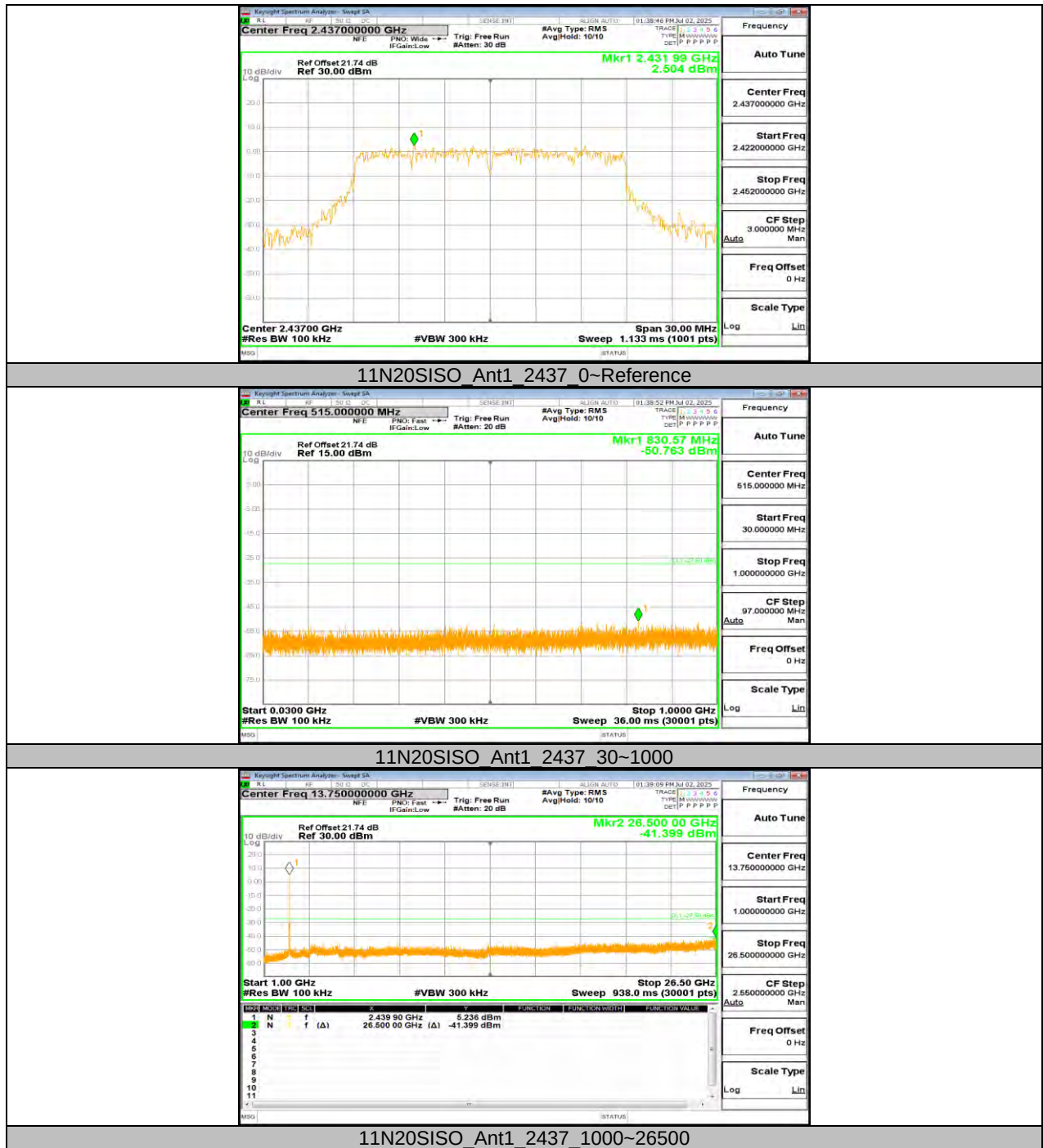


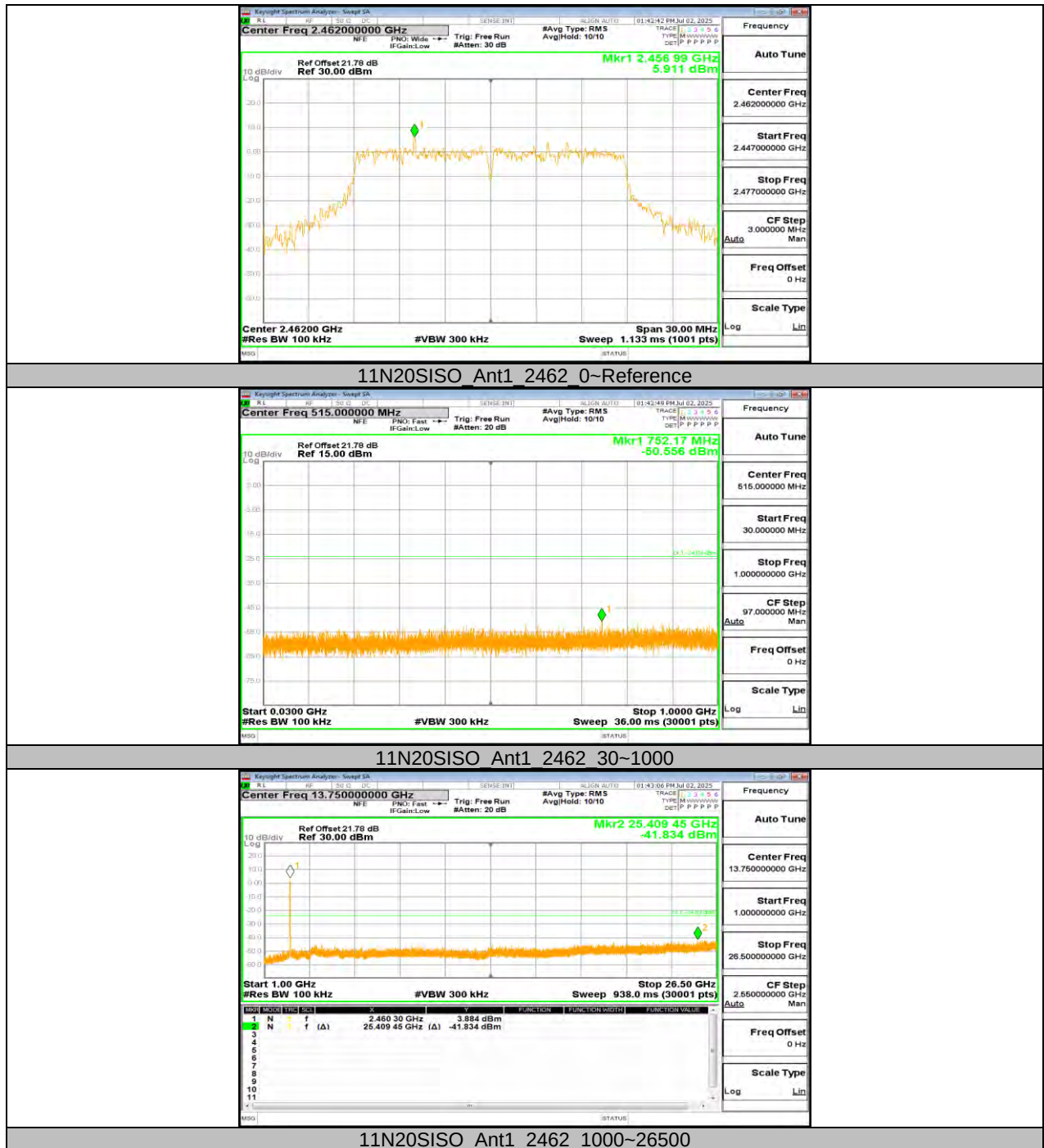




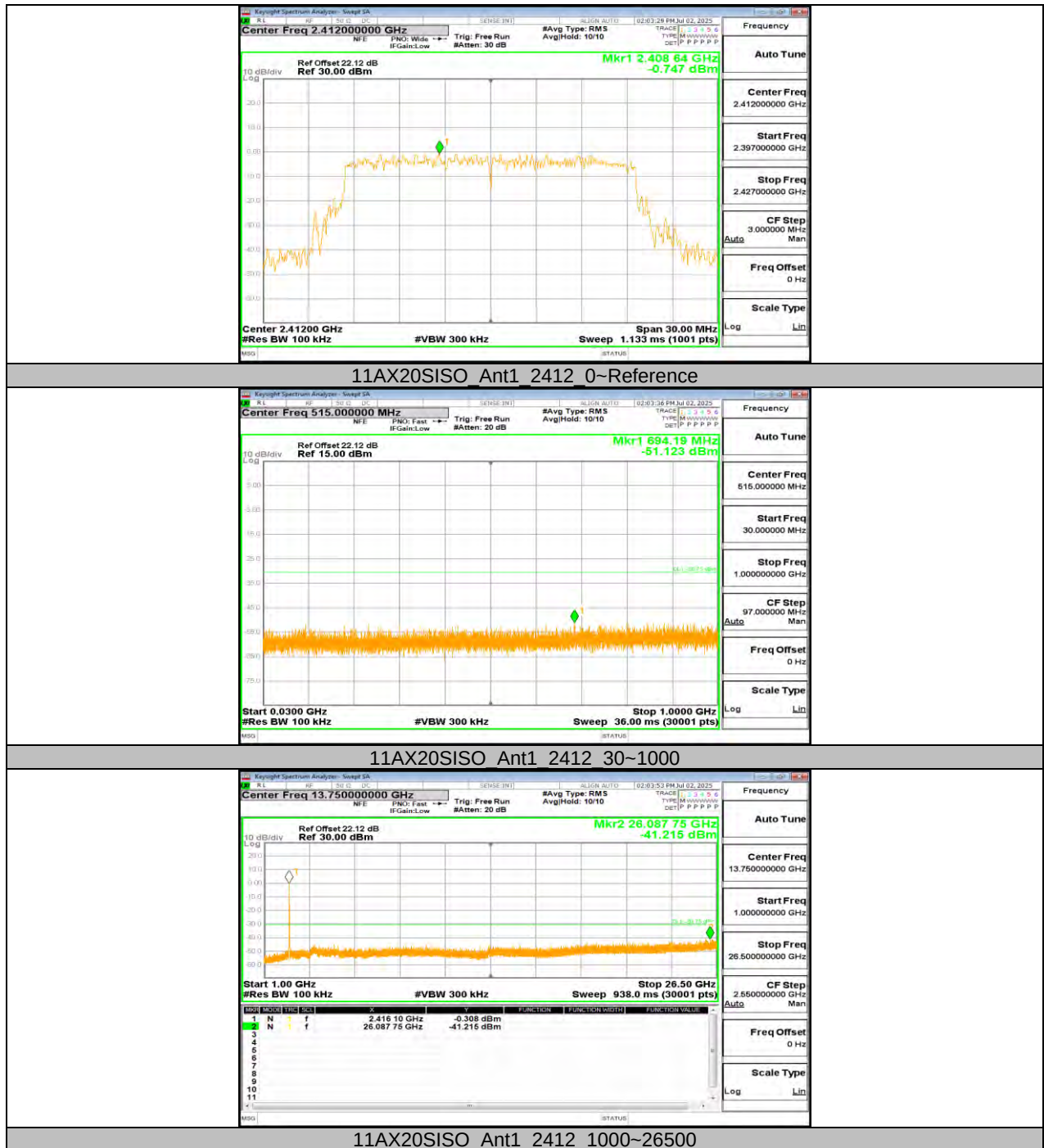




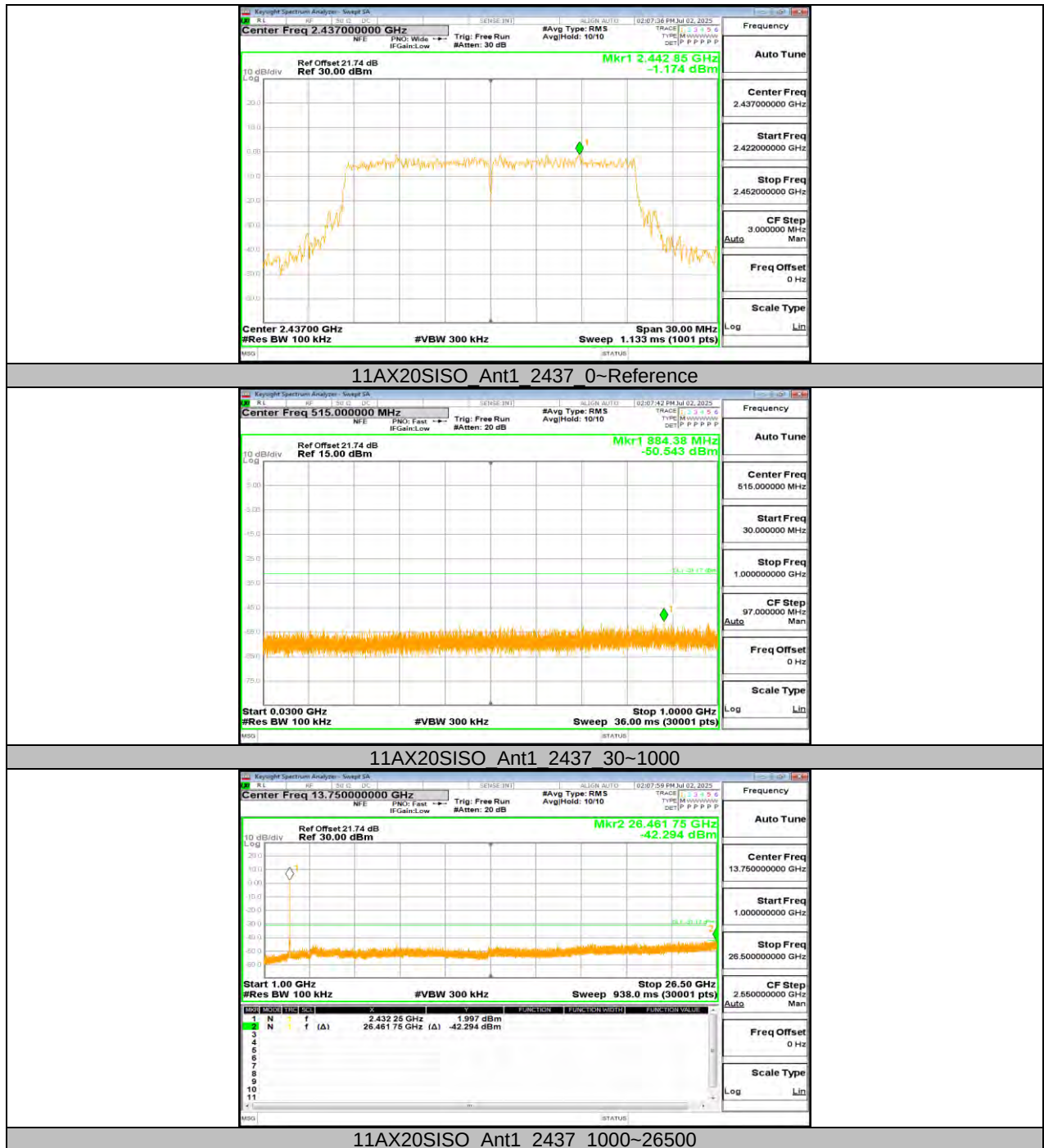


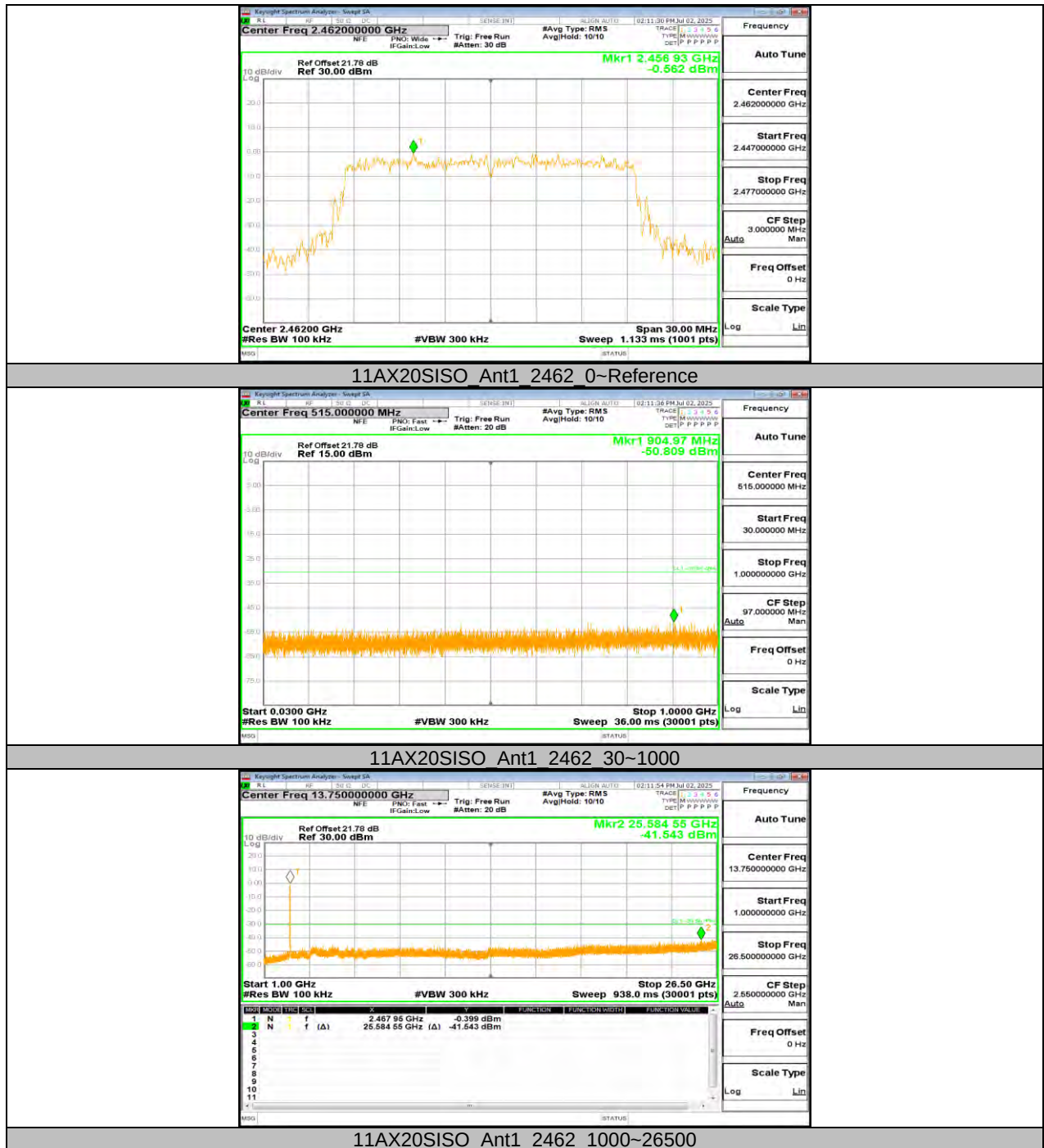












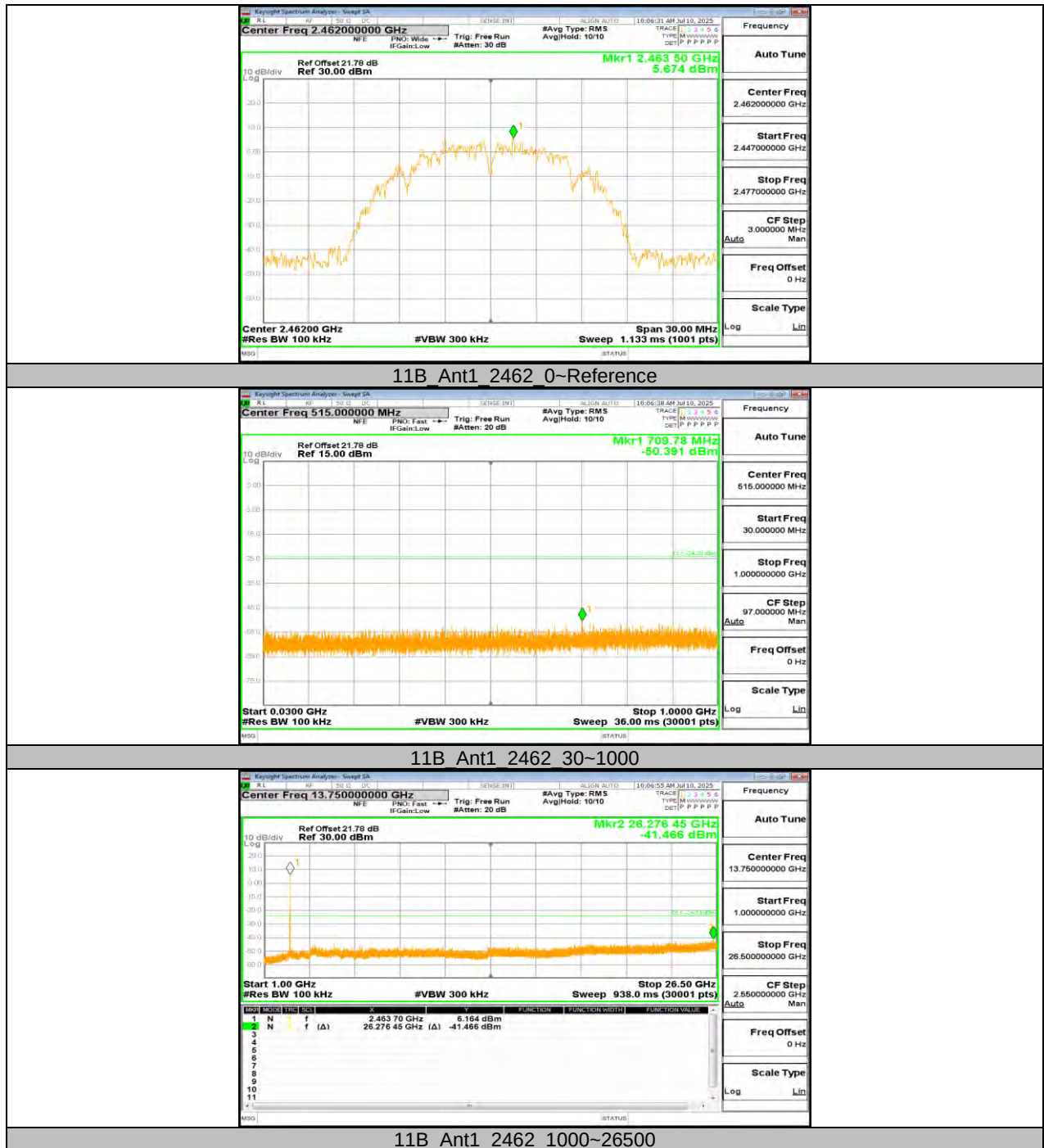
## Radars board

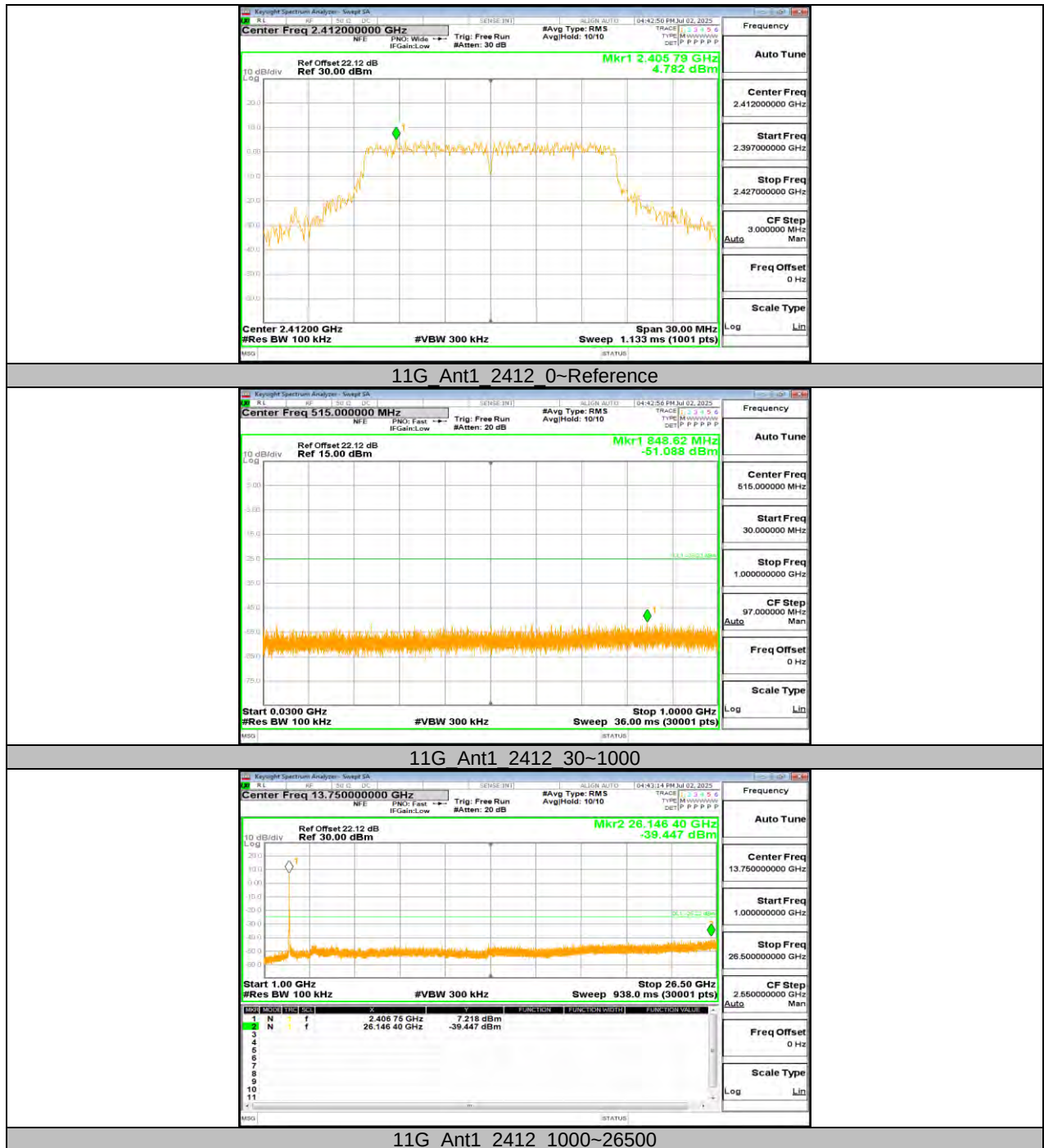


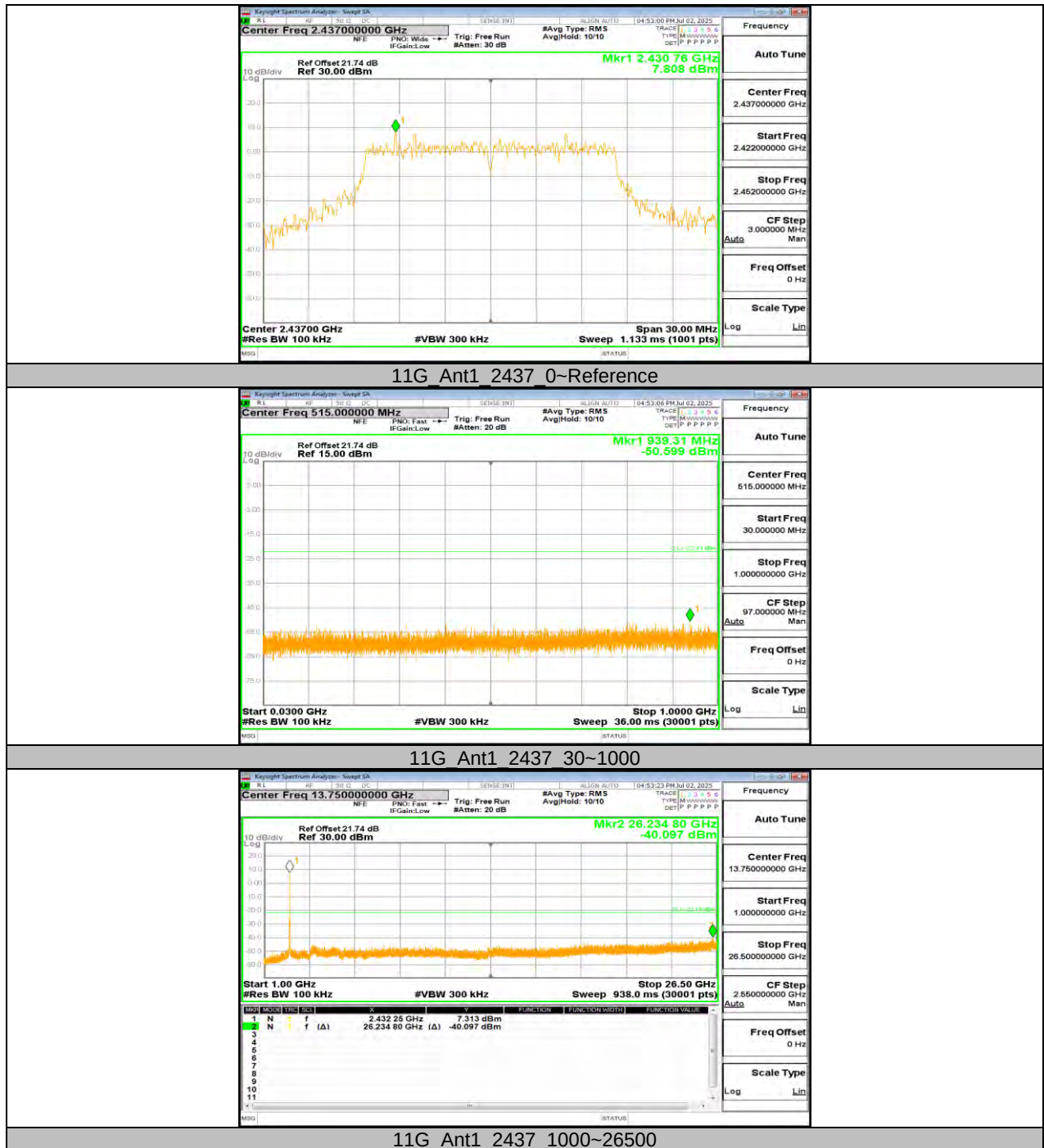




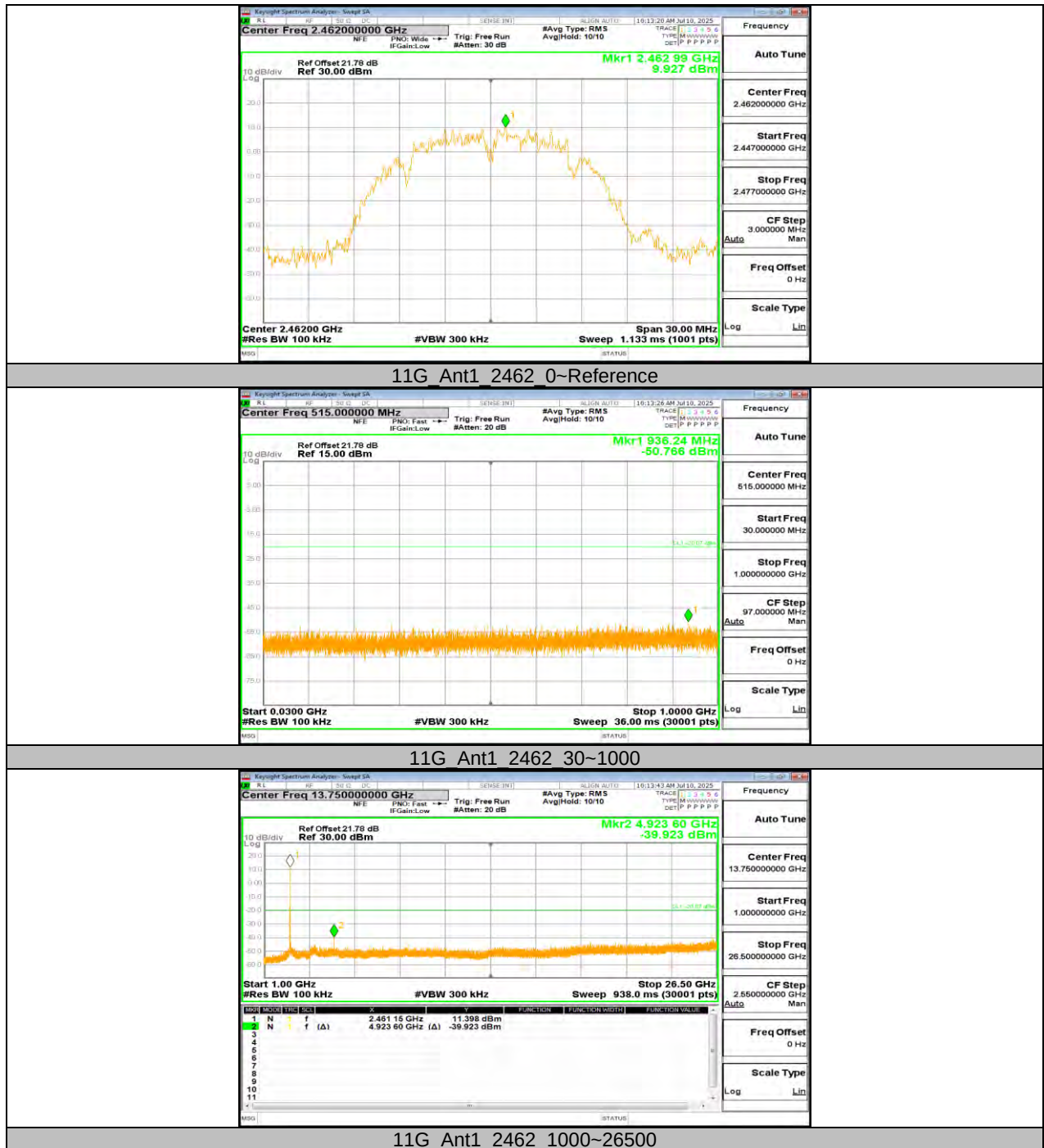




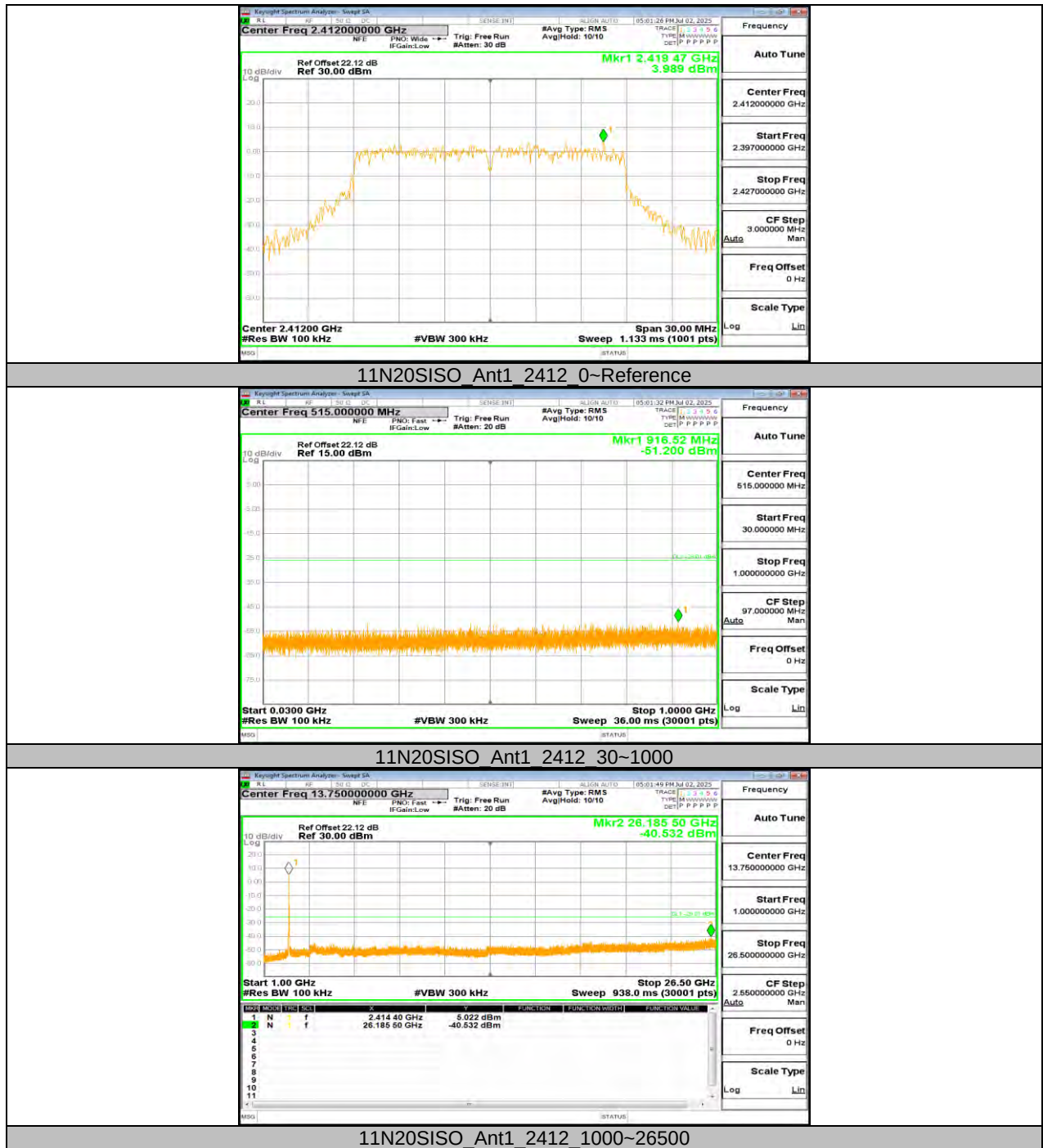


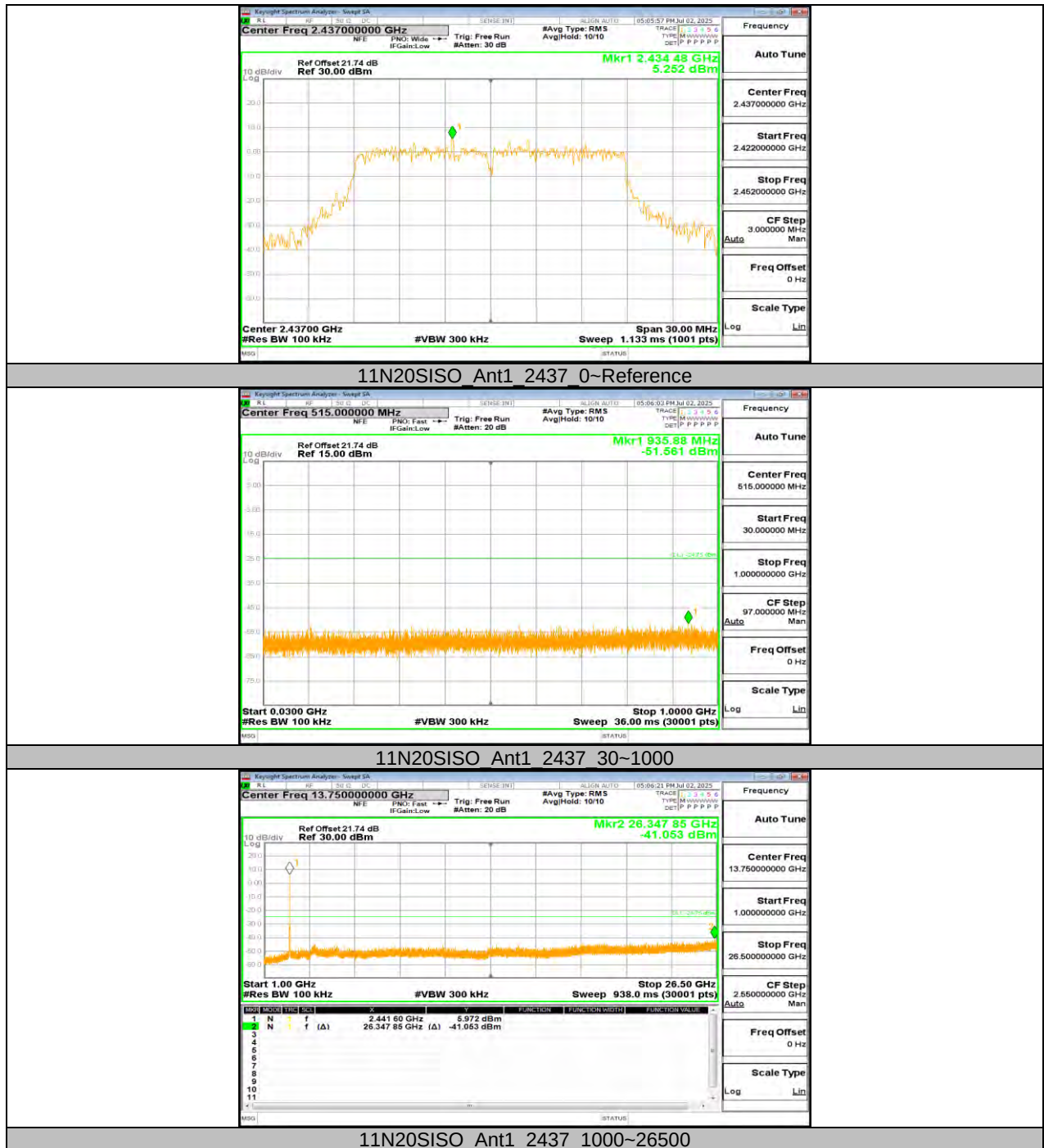


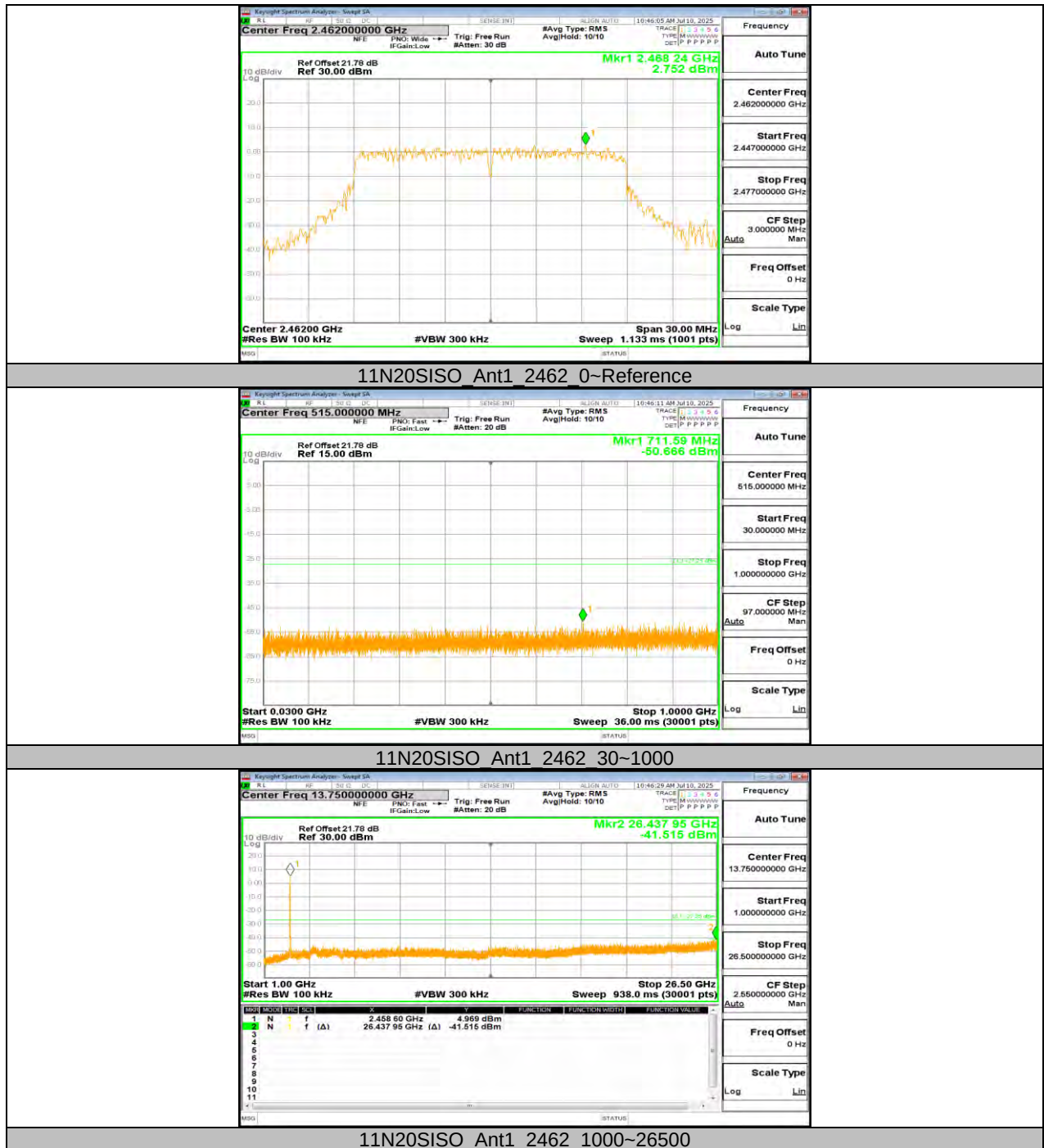




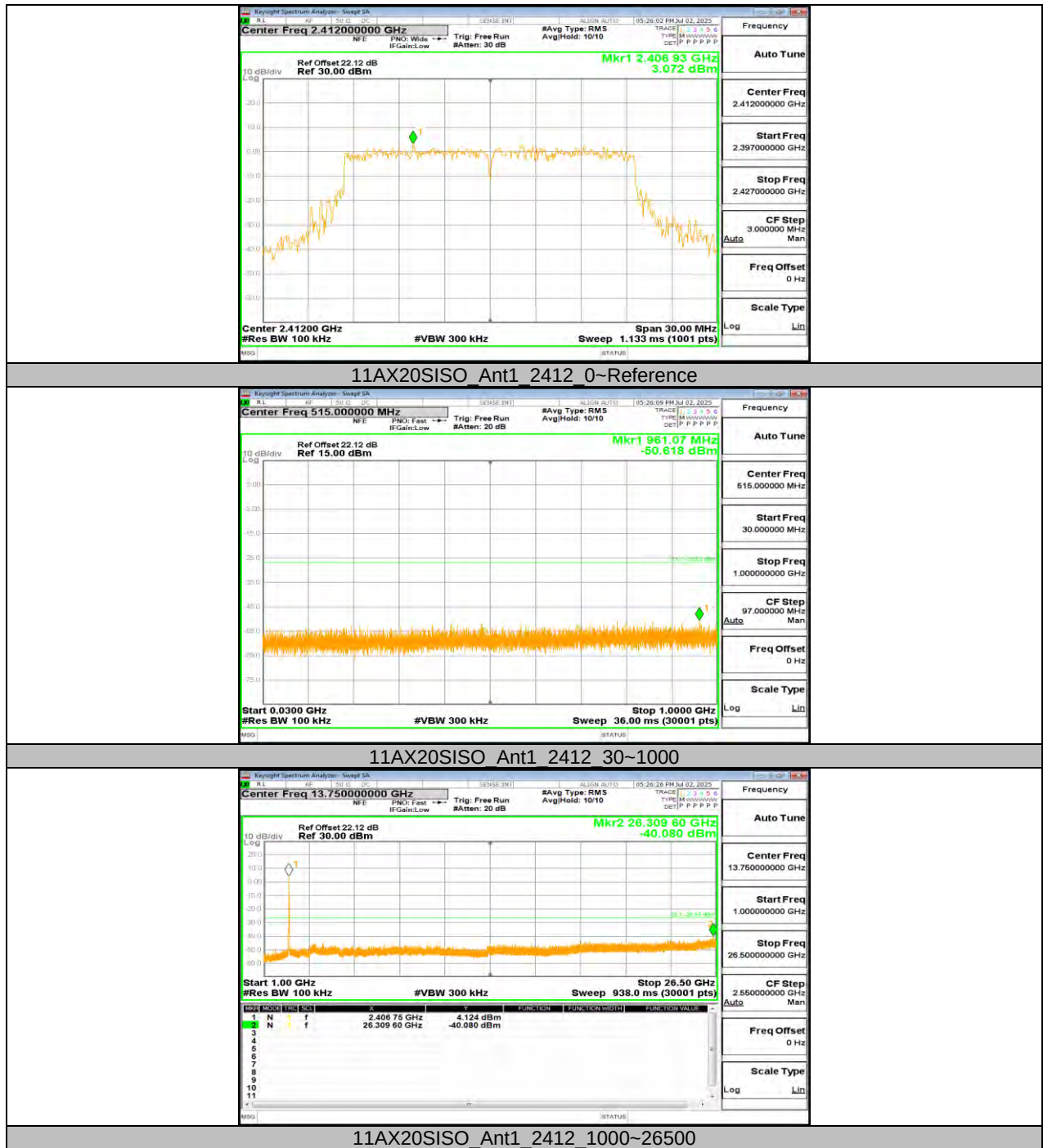




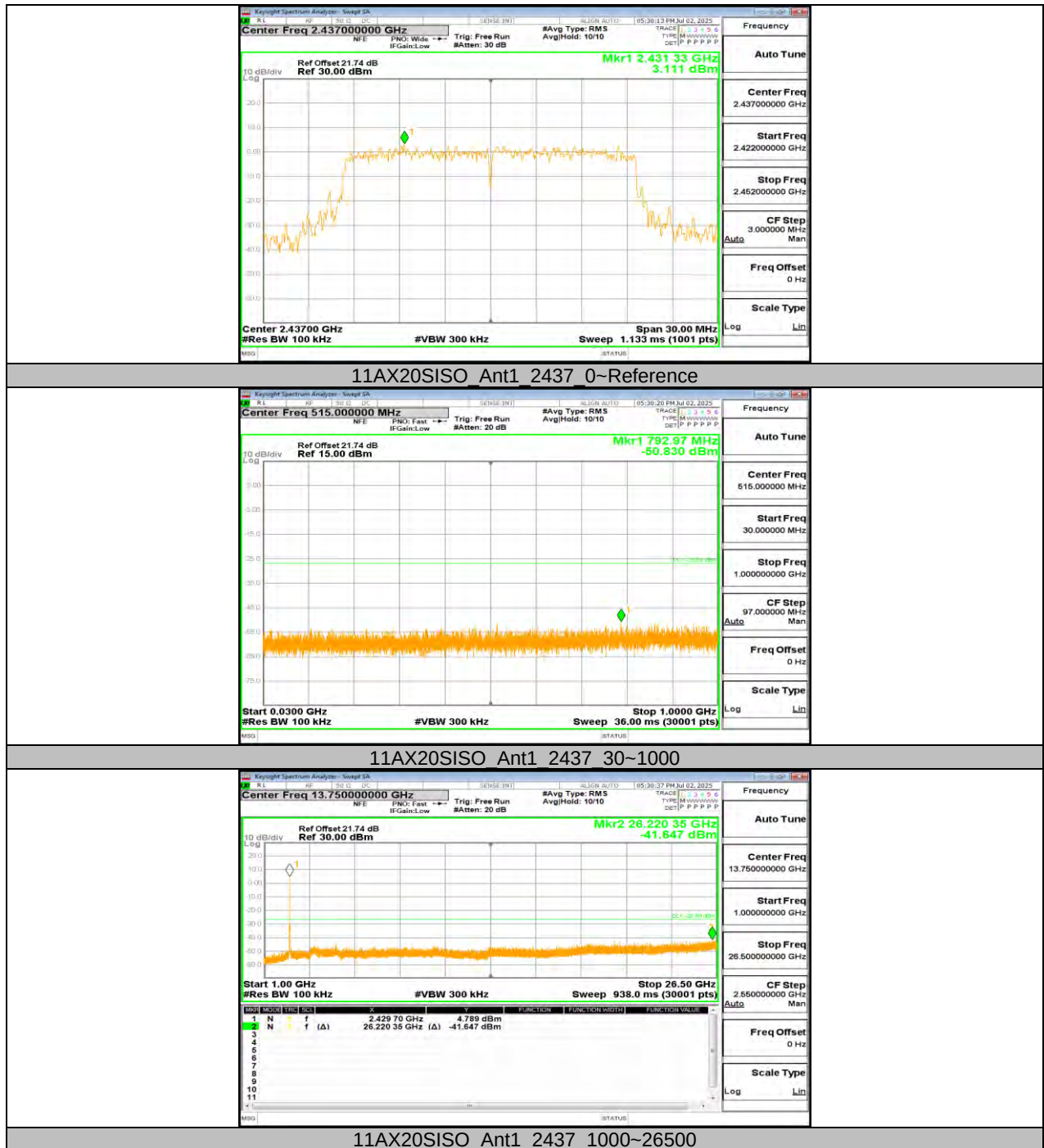


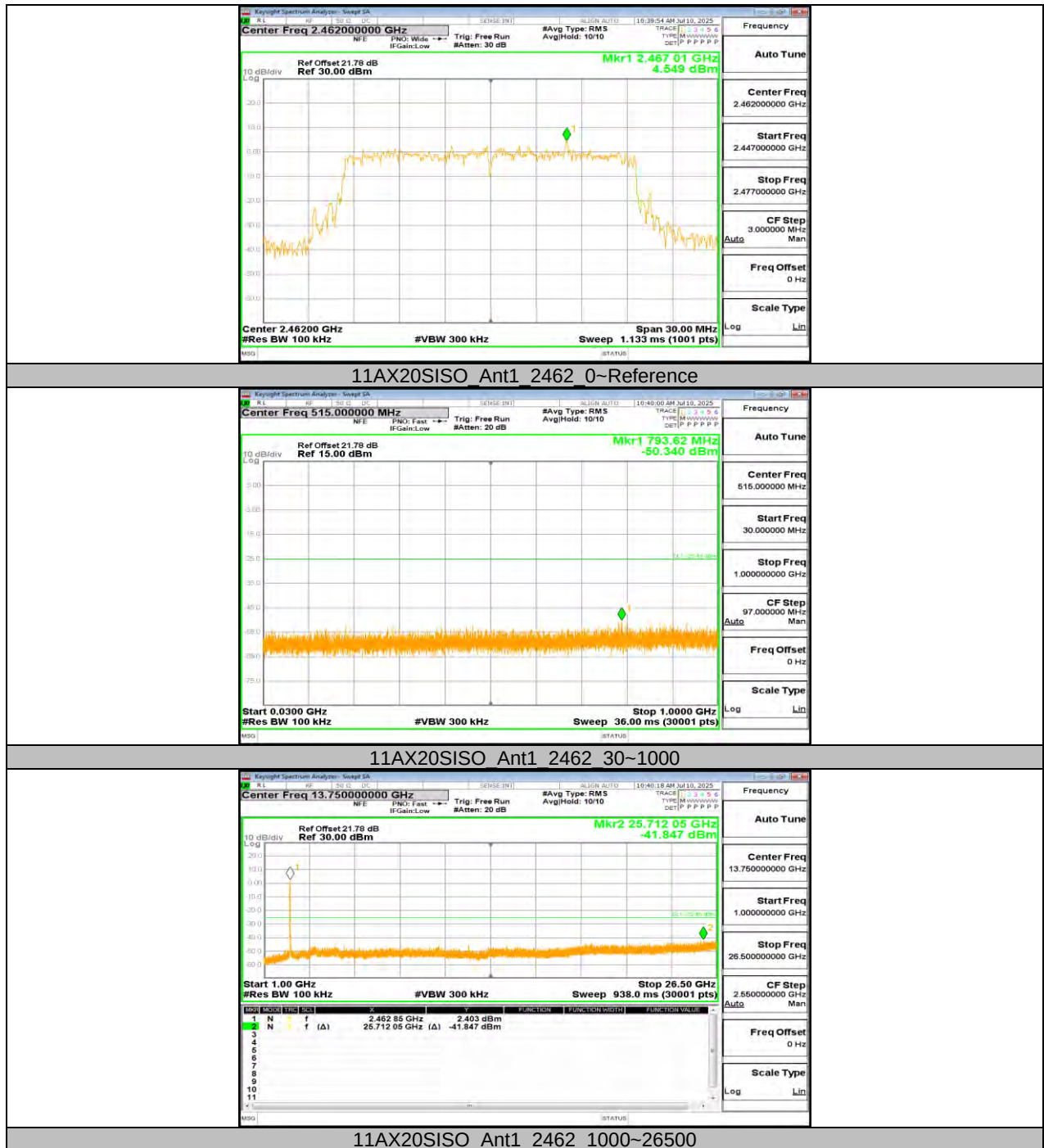












## 10.7. APPENDIX G: DUTY CYCLE

### 10.7.1. Test Result

FPV board

| Test Mode  | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11B        | 1.01           | 1.09          | 0.9266                | 92.66          | 0.33                              | 0.99                  | 1                           |
| 11G        | 0.61           | 0.65          | 0.9385                | 93.85          | 0.28                              | 1.64                  | 2                           |
| 11N20SISO  | 0.61           | 0.65          | 0.9385                | 93.85          | 0.28                              | 1.64                  | 2                           |
| 11AX20SISO | 0.74           | 0.78          | 0.9487                | 94.87          | 0.23                              | 1.35                  | 2                           |

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

Radar board

| Test Mode  | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11B        | 1.01           | 1.09          | 0.9266                | 92.66          | 0.33                              | 0.99                  | 1                           |
| 11G        | 0.62           | 0.65          | 0.9538                | 95.38          | 0.21                              | 1.61                  | 2                           |
| 11N20SISO  | 0.61           | 0.65          | 0.9385                | 93.85          | 0.28                              | 1.64                  | 2                           |
| 11AX20SISO | 0.74           | 0.78          | 0.9487                | 94.87          | 0.23                              | 1.35                  | 2                           |

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

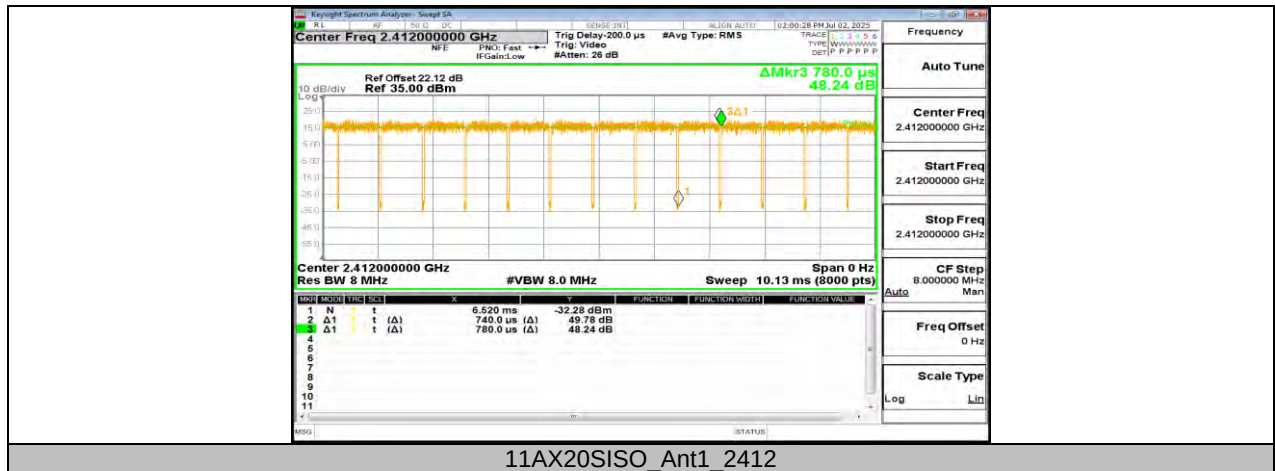
If that calculated VBW is not available on the analyzer then the next higher value should be used.

## 10.7.2. Test Graphs

FPV board

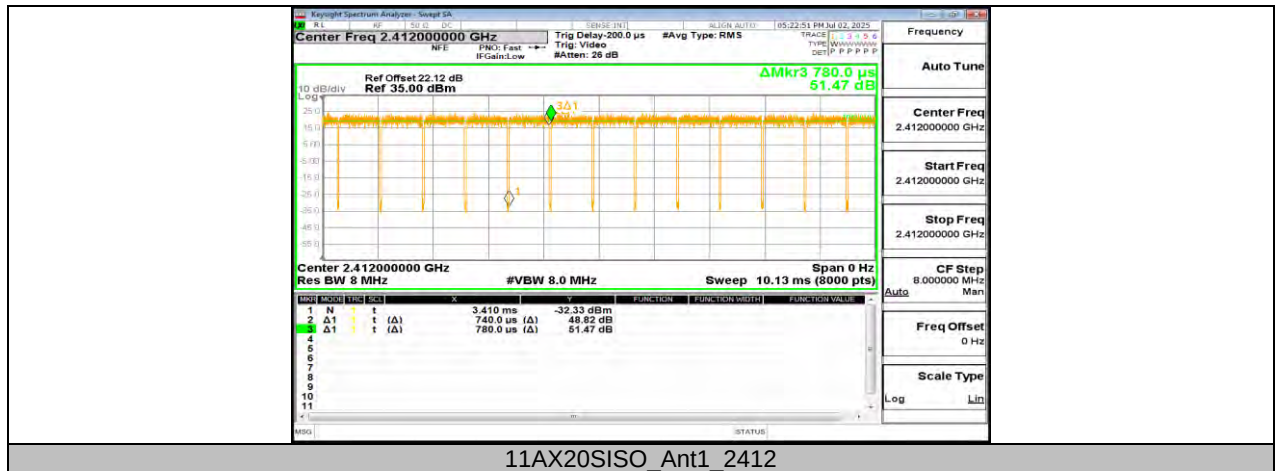






## Radars board





END OF REPORT