

## Appendix C

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: MegaPad

#### Environmental Conditions

|                    |              |
|--------------------|--------------|
| Temperature:       | 24.1°C       |
| Relative Humidity: | 53.2%        |
| ATM Pressure:      | 100.0 kPa    |
| Test Engineer:     | Zhang hai    |
| Supervised by:     | Fengliu Tang |

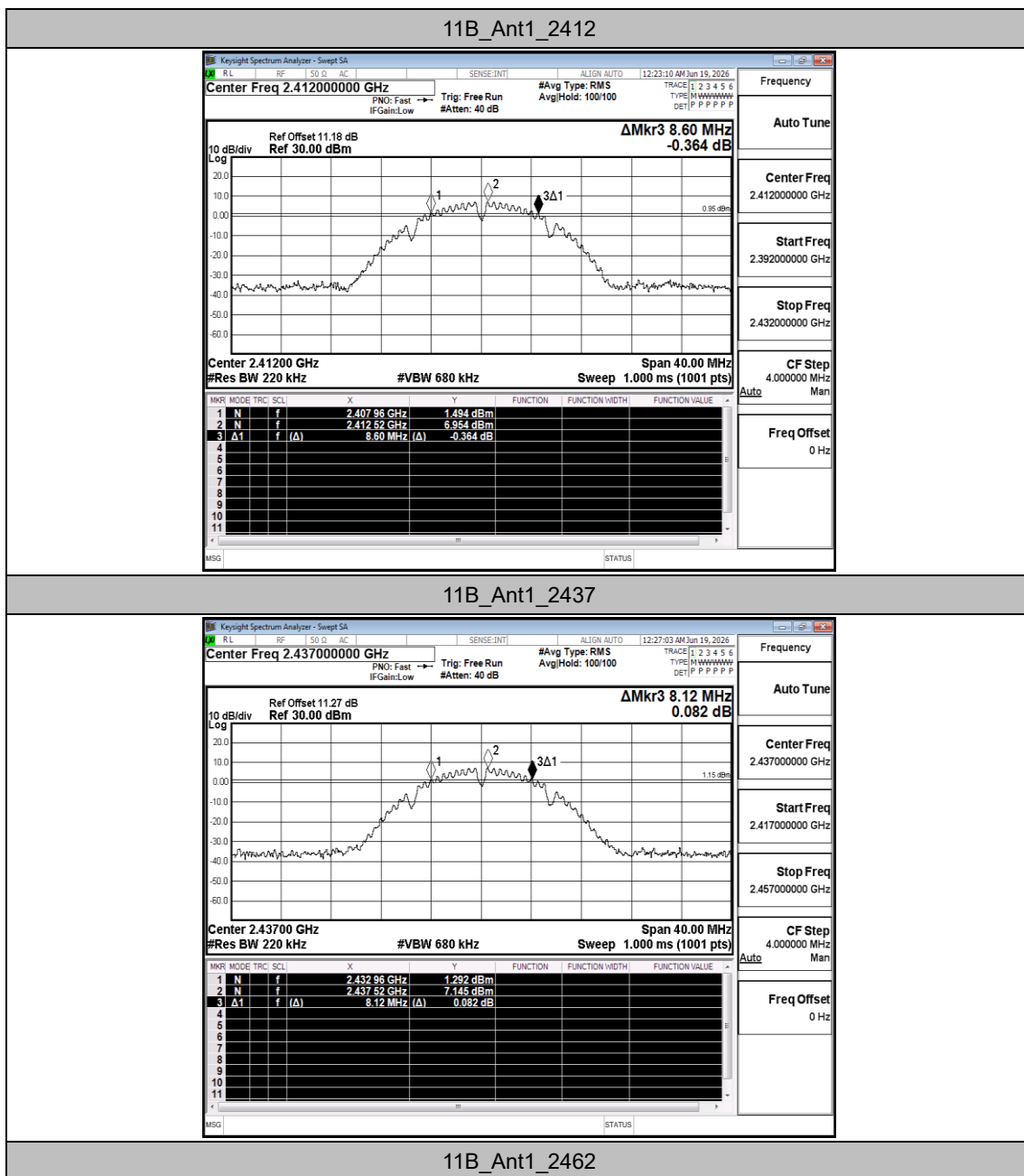
## C.1 DTS Bandwidth

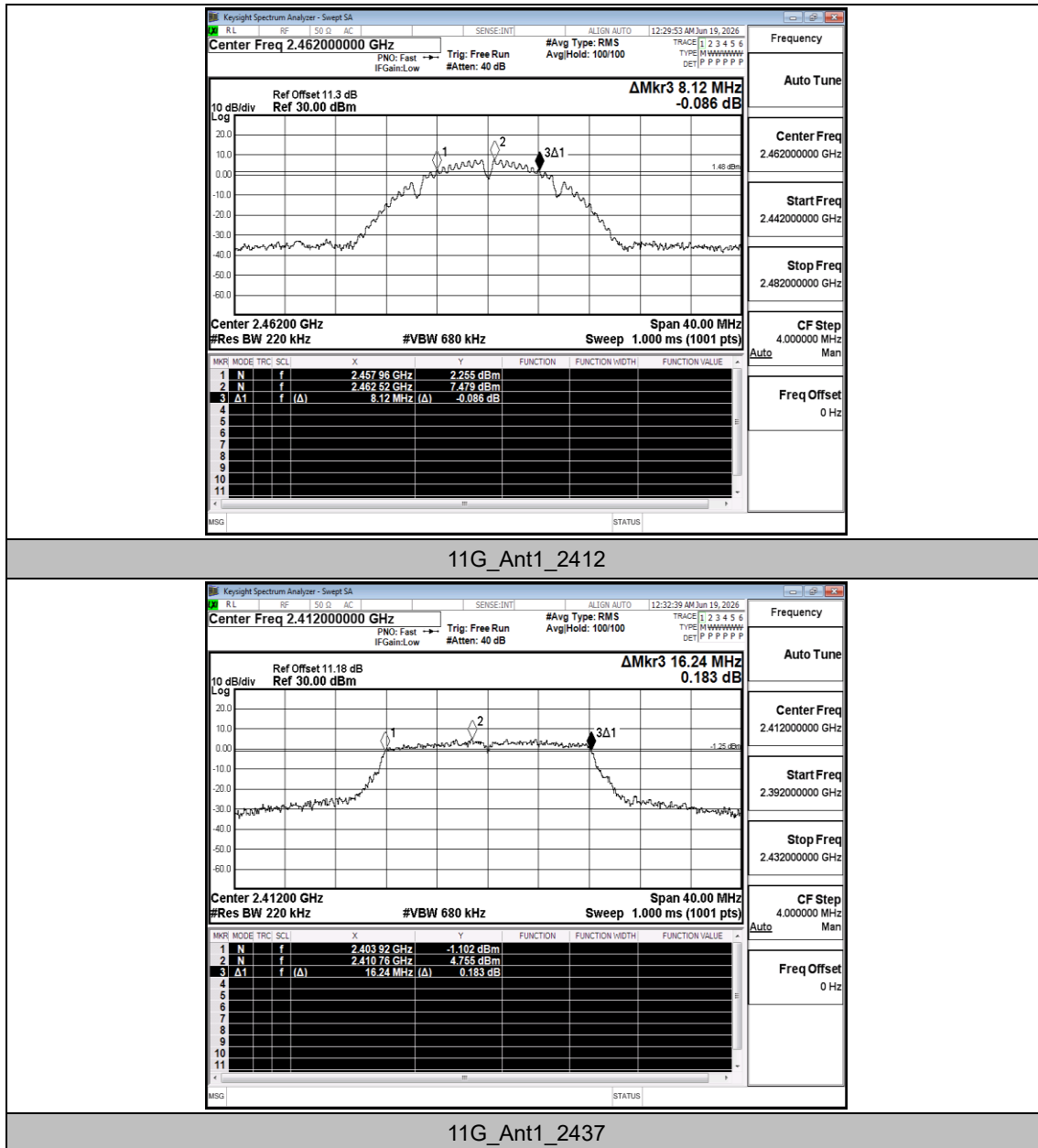
### Test Result

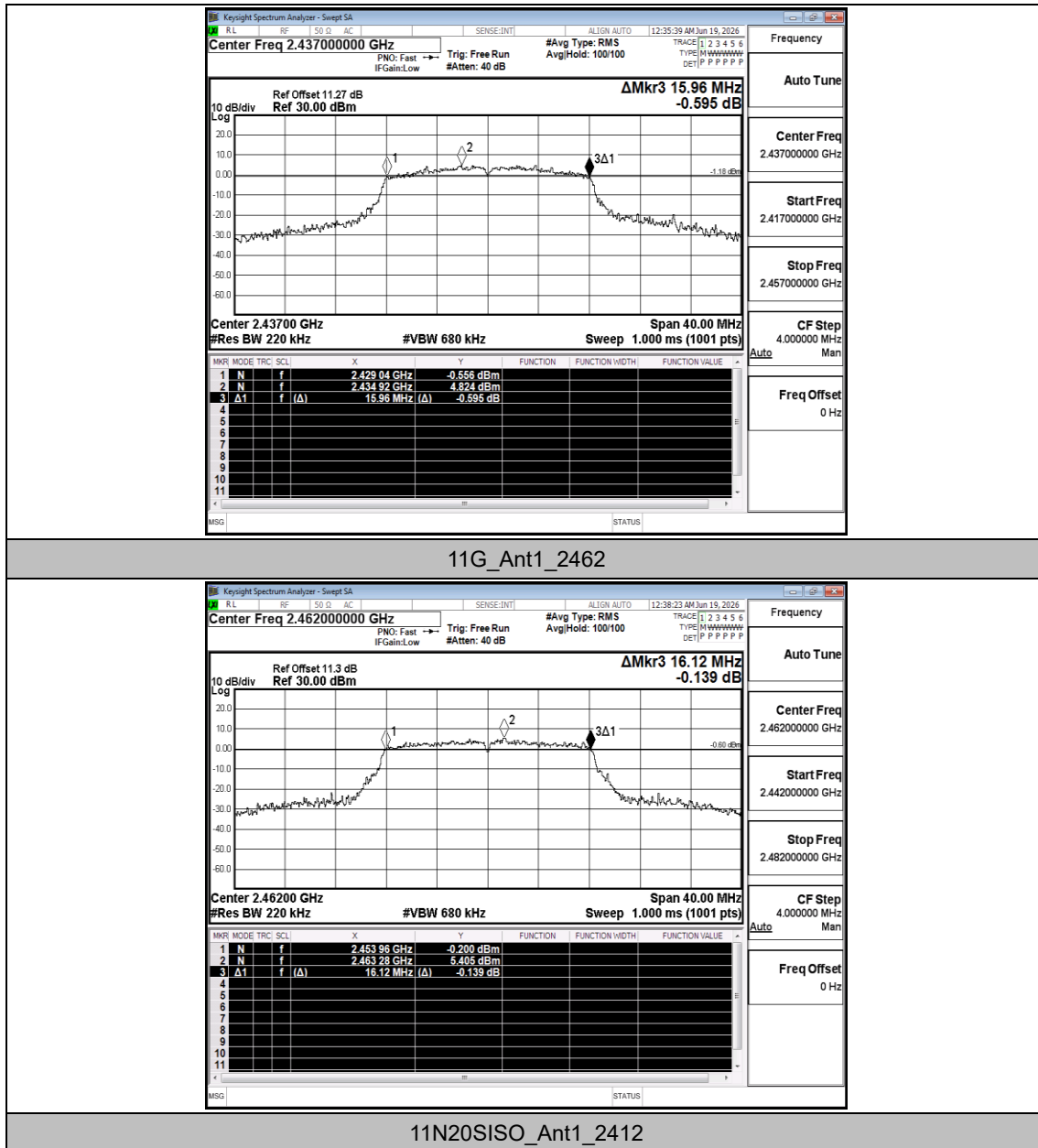
| TestMode  | Antenna | Frequency [MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| 11B       | Ant1    | 2412            | 8.600        | 2407.960 | 2416.560 | 0.5         | PASS    |
|           |         | 2437            | 8.120        | 2432.960 | 2441.080 | 0.5         | PASS    |
|           |         | 2462            | 8.120        | 2457.960 | 2466.080 | 0.5         | PASS    |
| 11G       | Ant1    | 2412            | 16.240       | 2403.920 | 2420.160 | 0.5         | PASS    |
|           |         | 2437            | 15.960       | 2429.040 | 2445.000 | 0.5         | PASS    |
|           |         | 2462            | 16.120       | 2453.960 | 2470.080 | 0.5         | PASS    |
| 11N20SISO | Ant1    | 2412            | 17.440       | 2403.360 | 2420.800 | 0.5         | PASS    |
|           |         | 2437            | 15.320       | 2429.440 | 2444.760 | 0.5         | PASS    |
|           |         | 2462            | 17.560       | 2453.200 | 2470.760 | 0.5         | PASS    |
| 11N40SISO | Ant1    | 2422            | 27.840       | 2412.400 | 2440.240 | 0.5         | PASS    |
|           |         | 2437            | 28.240       | 2424.040 | 2452.280 | 0.5         | PASS    |
|           |         | 2452            | 34.240       | 2433.920 | 2468.160 | 0.5         | PASS    |

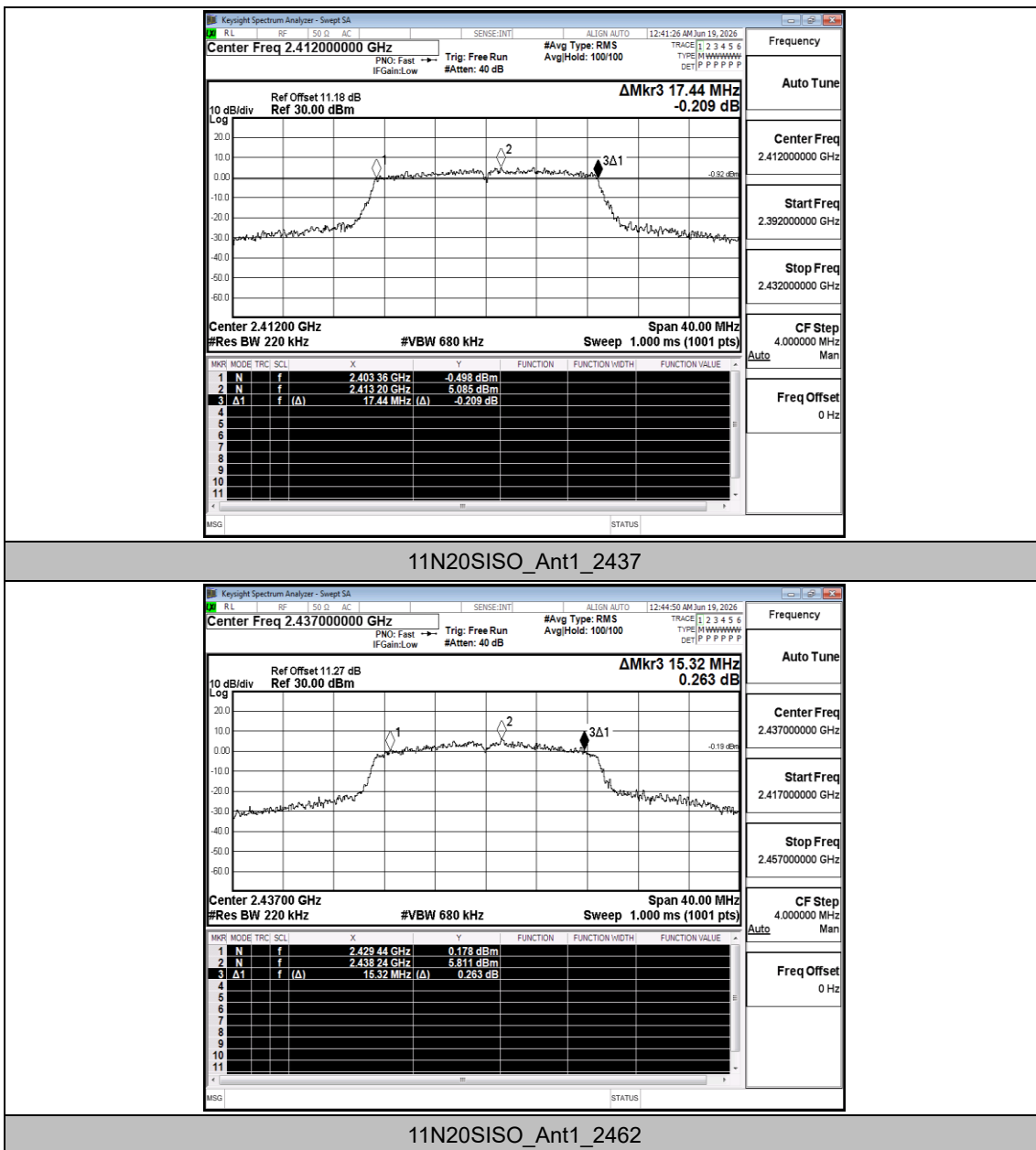
Note: offset=System attenuation +cabel loss

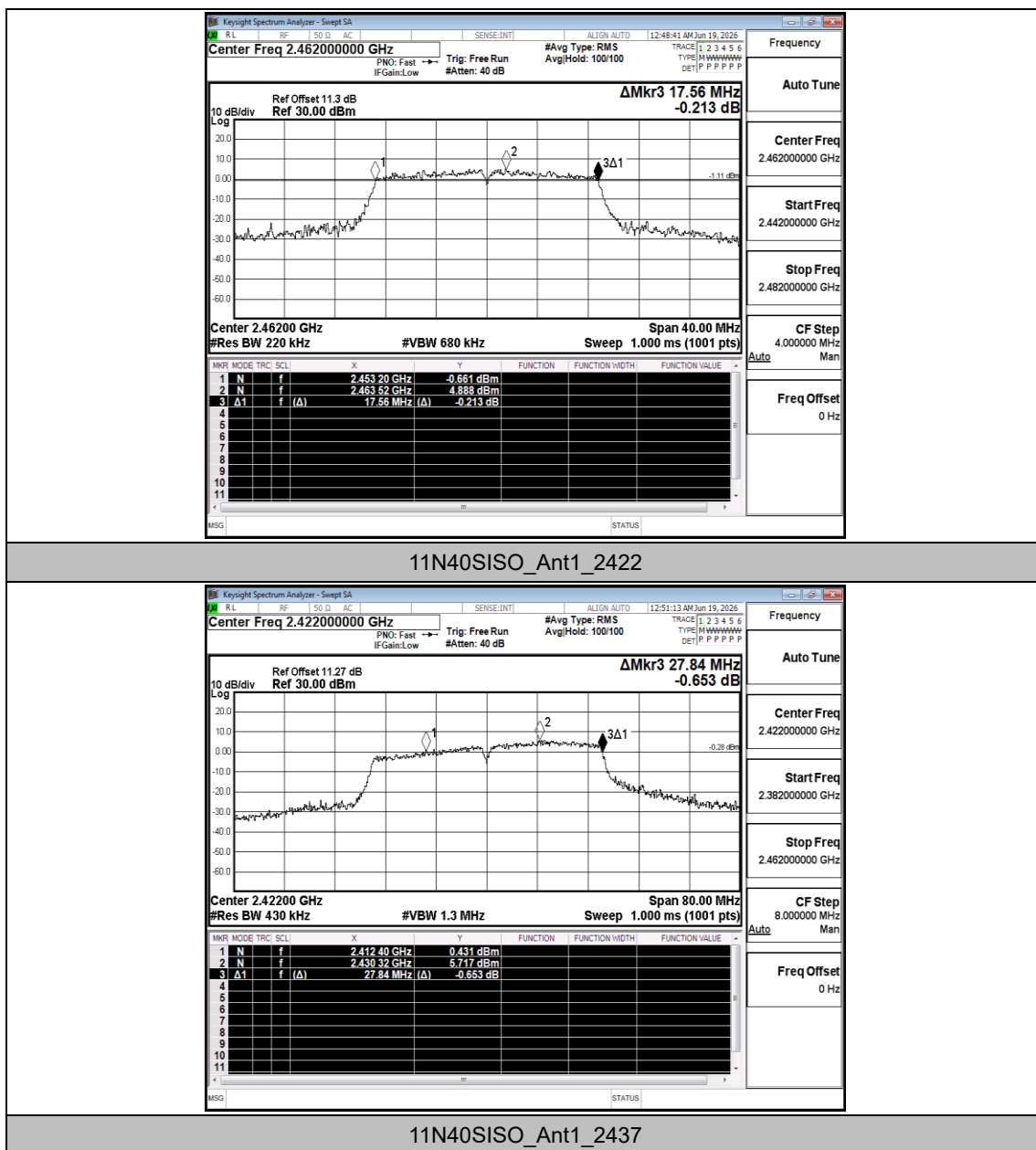
## Test Graphs

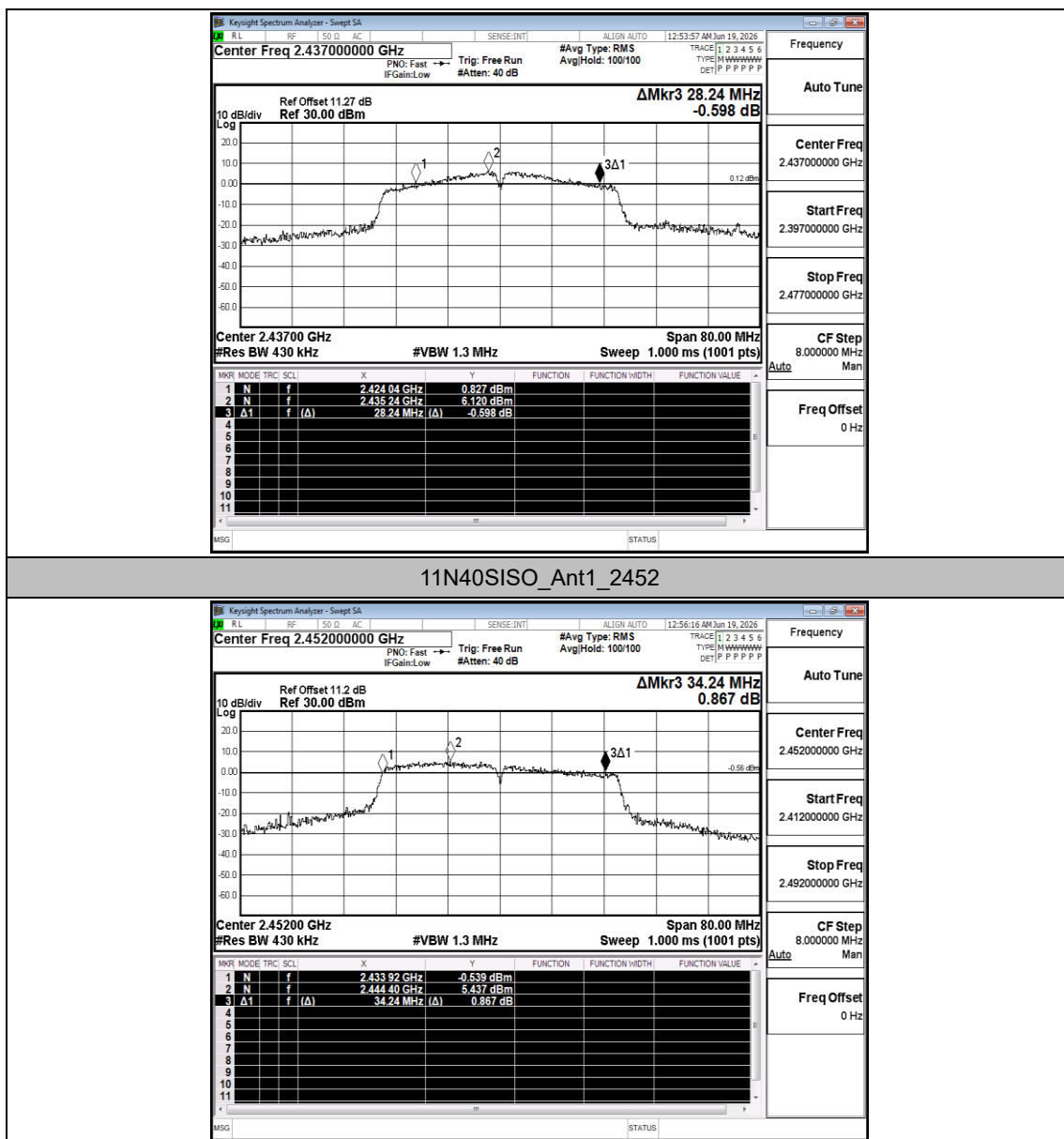












## C.2 Maximum Average conducted output power

### Test Result Average

| TestMode  | Antenna | Frequency [MHz] | Measured Power | DC Factor [dB] | AV Power [dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|----------------|----------------|----------------|----------------------|---------|
| 11B       | Ant1    | 2412            | 14.26          | 0.03           | 14.29          | ≤30.00               | PASS    |
|           |         | 2437            | 13.96          | 0.01           | 13.97          | ≤30.00               | PASS    |
|           |         | 2462            | 14.46          | 0.03           | 14.49          | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412            | 14.62          | 0.12           | 14.74          | ≤30.00               | PASS    |
|           |         | 2437            | 14.30          | 0.15           | 14.45          | ≤30.00               | PASS    |
|           |         | 2462            | 14.58          | 0.15           | 14.73          | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412            | 14.45          | 0.16           | 14.61          | ≤30.00               | PASS    |
|           |         | 2437            | 14.28          | 0.16           | 14.44          | ≤30.00               | PASS    |
|           |         | 2462            | 14.46          | 0.13           | 14.59          | ≤30.00               | PASS    |
| 11N40SISO | Ant1    | 2422            | 14.50          | 0.33           | 14.83          | ≤30.00               | PASS    |
|           |         | 2437            | 14.60          | 0.32           | <b>14.92</b>   | ≤30.00               | PASS    |
|           |         | 2452            | 14.31          | 0.26           | 14.57          | ≤30.00               | PASS    |

Note: offset=System attenuation +cabal loss

### C.3 Maximum power spectral density

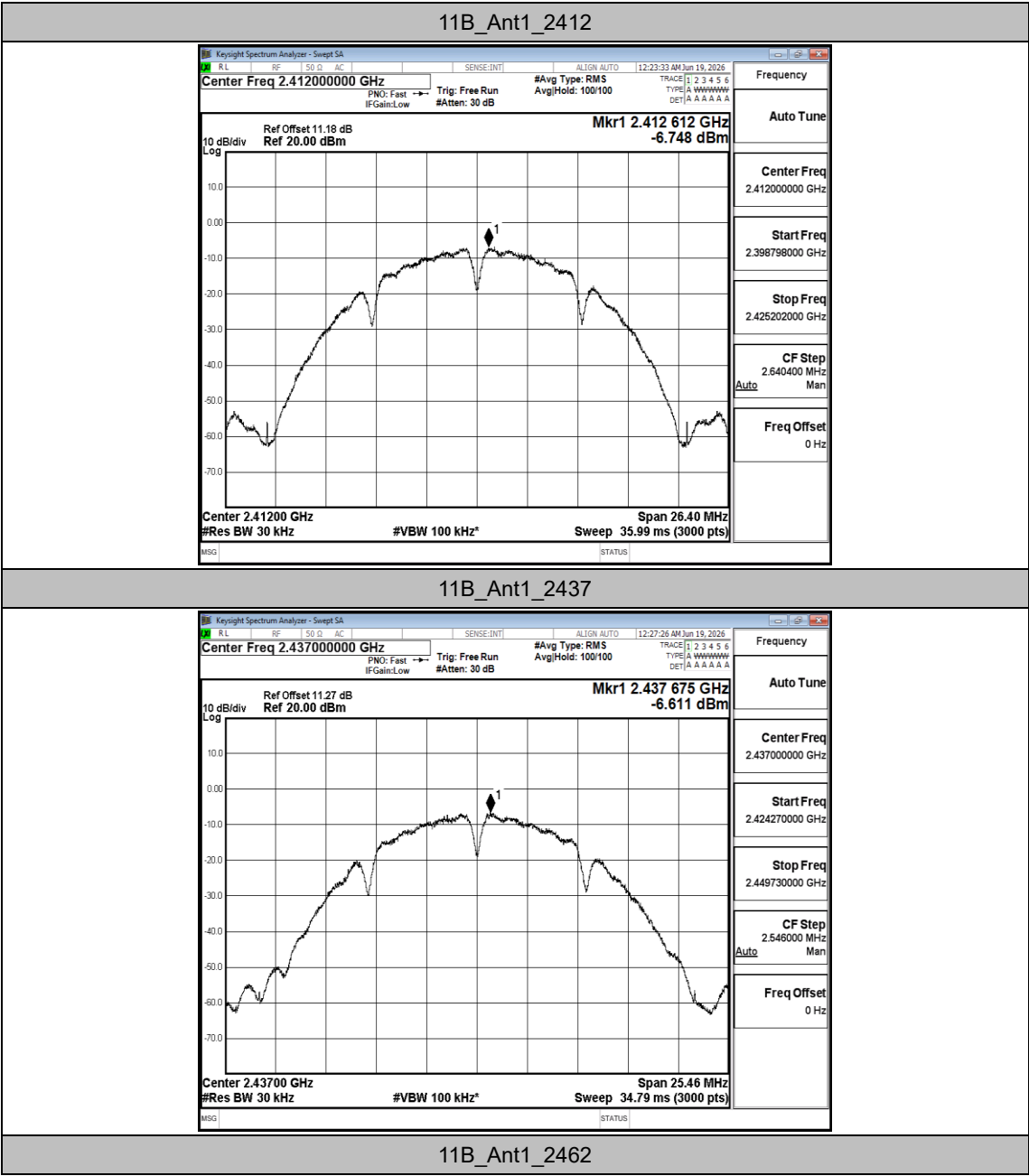
#### Test Result

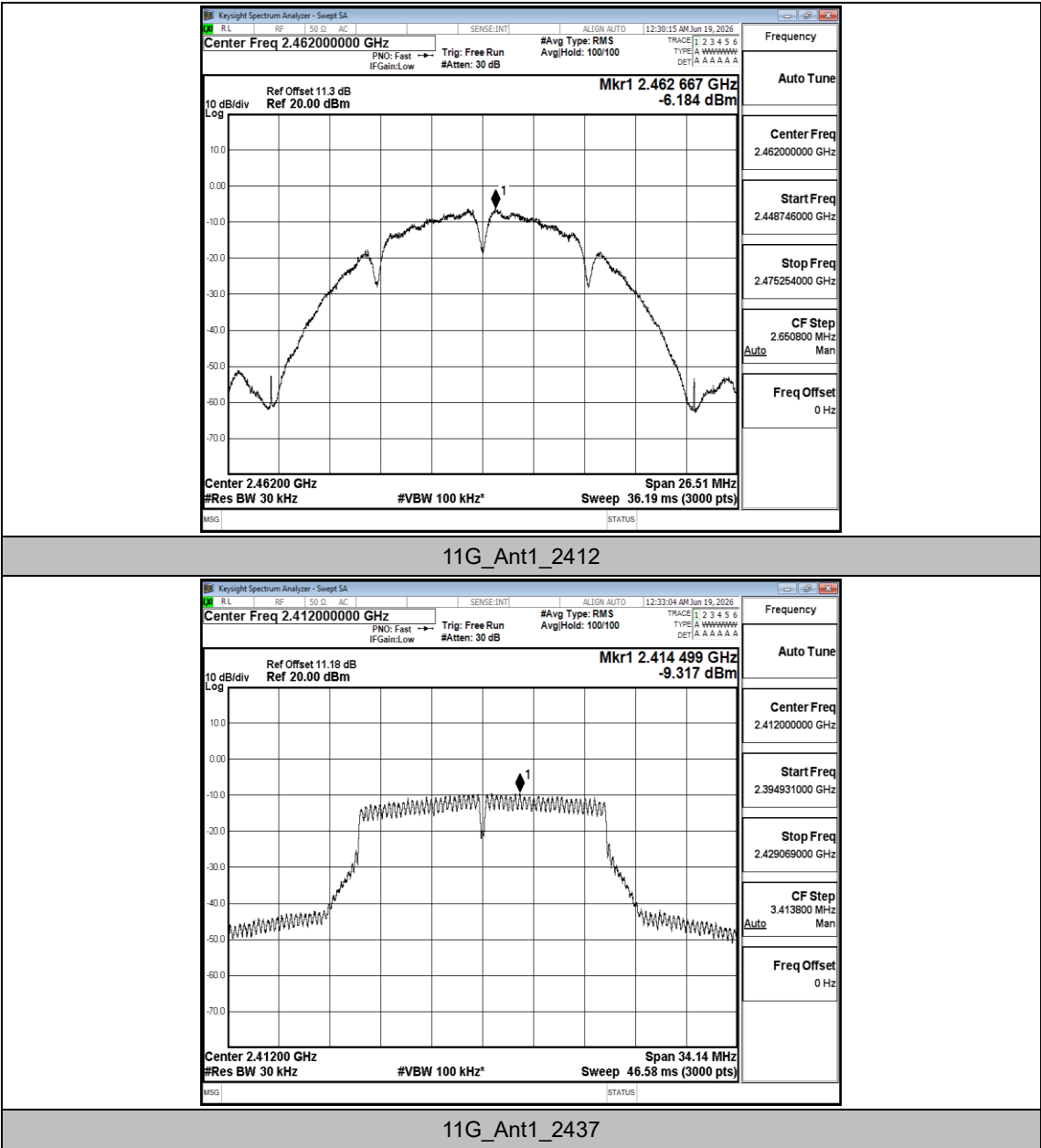
| TestMode  | Antenna | Frequency [MHz] | Measured PSD [dBm/30kHz] | DC Factor [dB] | Result [dBm/30kHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------|--------------------------|----------------|--------------------|-------------------|------------------|---------|
| 11B       | Ant1    | 2412            | -6.75                    | 0.03           | -6.72              | -16.72            | ≤8.00            | PASS    |
|           |         | 2437            | -6.61                    | 0.01           | -6.60              | -16.6             | ≤8.00            | PASS    |
|           |         | 2462            | -6.18                    | 0.03           | -6.15              | -16.15            | ≤8.00            | PASS    |
| 11G       | Ant1    | 2412            | -9.32                    | 0.12           | -9.20              | -19.2             | ≤8.00            | PASS    |
|           |         | 2437            | -9.12                    | 0.15           | -8.97              | -18.97            | ≤8.00            | PASS    |
|           |         | 2462            | -8.94                    | 0.15           | -8.79              | -18.79            | ≤8.00            | PASS    |
| 11N20SISO | Ant1    | 2412            | -9.48                    | 0.16           | -9.32              | -19.32            | ≤8.00            | PASS    |
|           |         | 2437            | -9.37                    | 0.16           | -9.21              | -19.21            | ≤8.00            | PASS    |
|           |         | 2462            | -9.08                    | 0.13           | -8.95              | -18.95            | ≤8.00            | PASS    |
| 11N40SISO | Ant1    | 2422            | -10.89                   | 0.33           | -10.56             | -20.56            | ≤8.00            | PASS    |
|           |         | 2437            | -10.94                   | 0.32           | -10.62             | -20.62            | ≤8.00            | PASS    |
|           |         | 2452            | -11.96                   | 0.26           | -11.70             | -21.7             | ≤8.00            | PASS    |

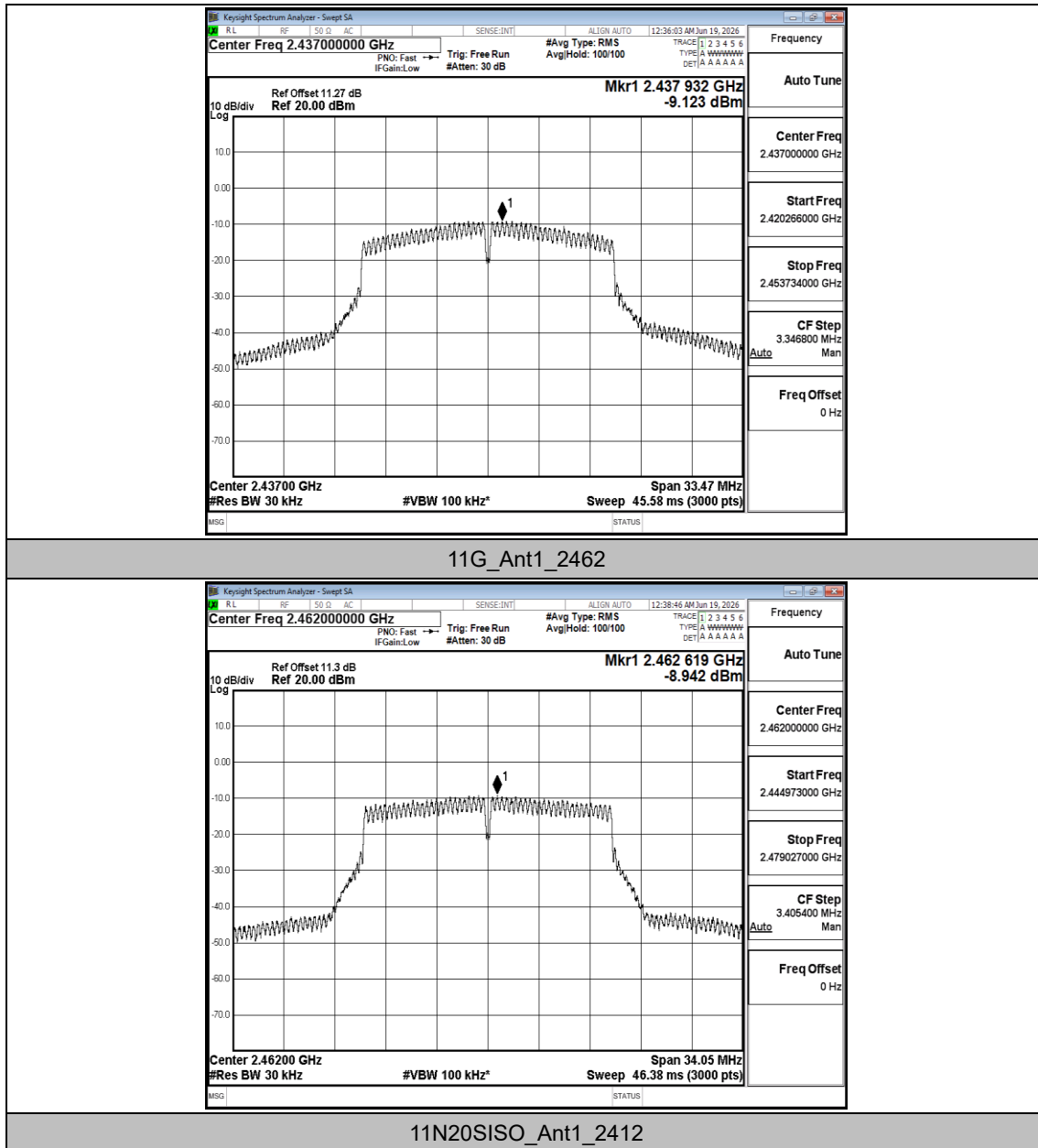
Note: offset=System attenuation +cable loss

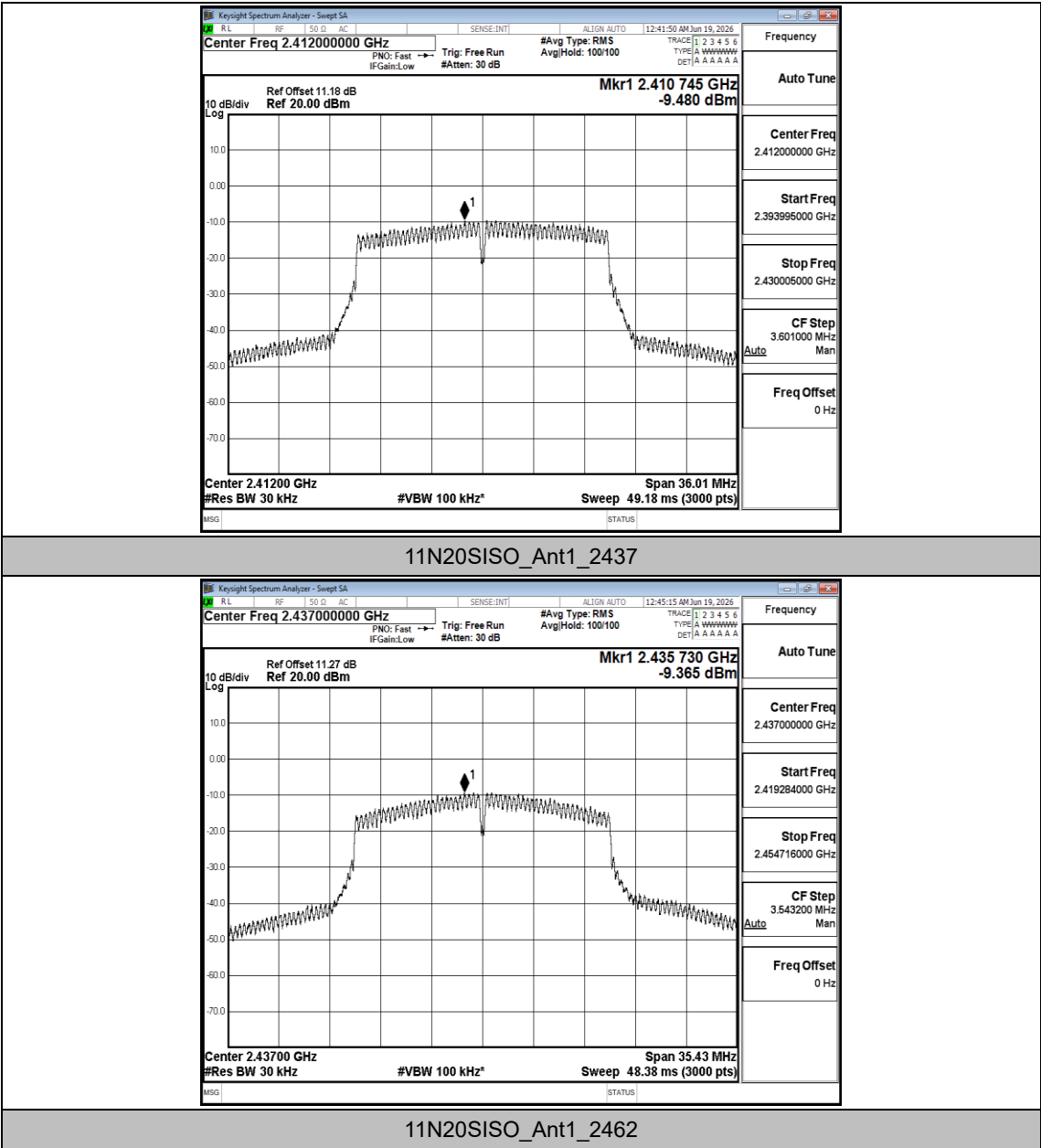
Result[dBm/3kHz] =Result[dBm/30kHz] +10\*Log(3/30)

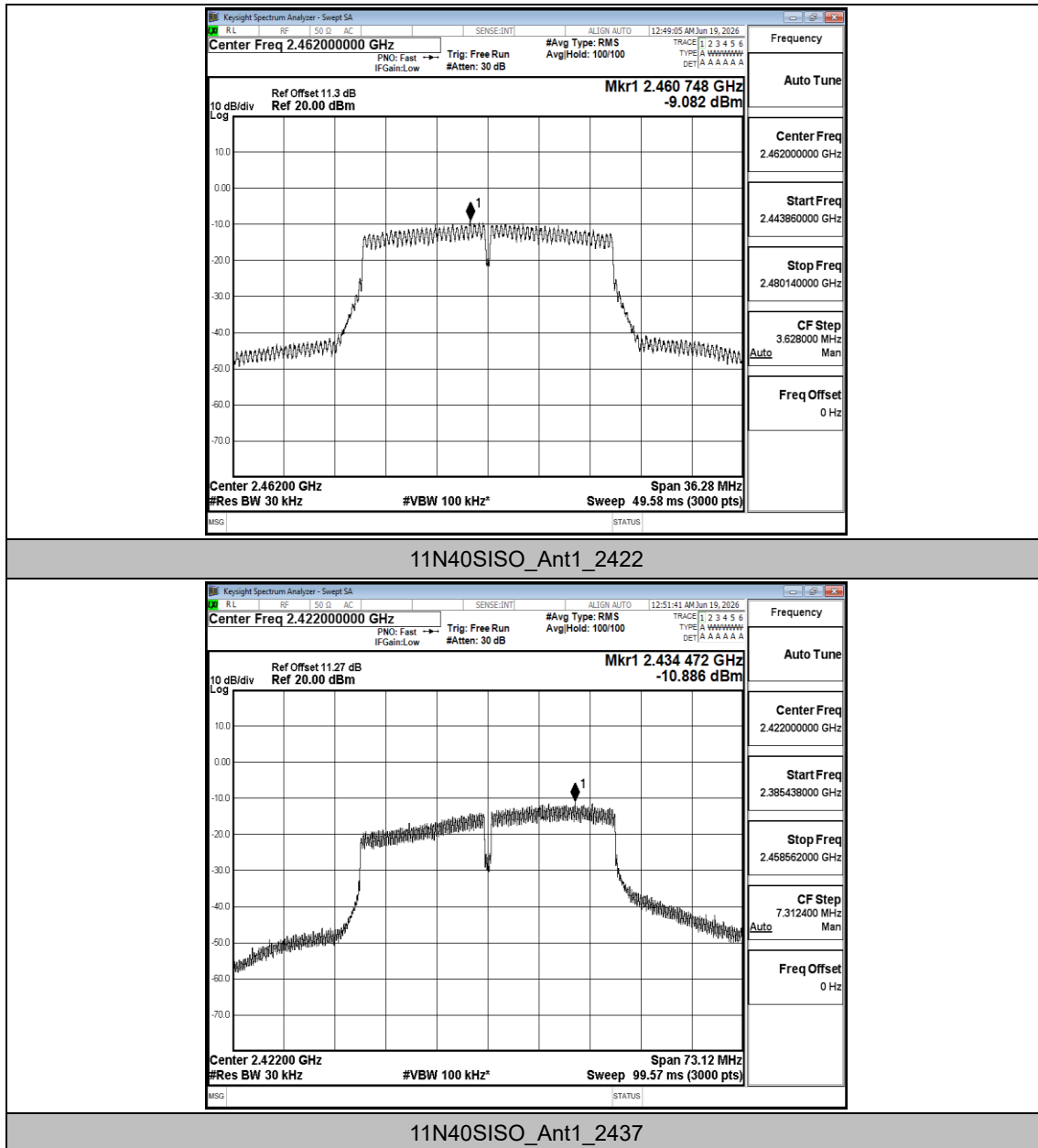
Test Graphs

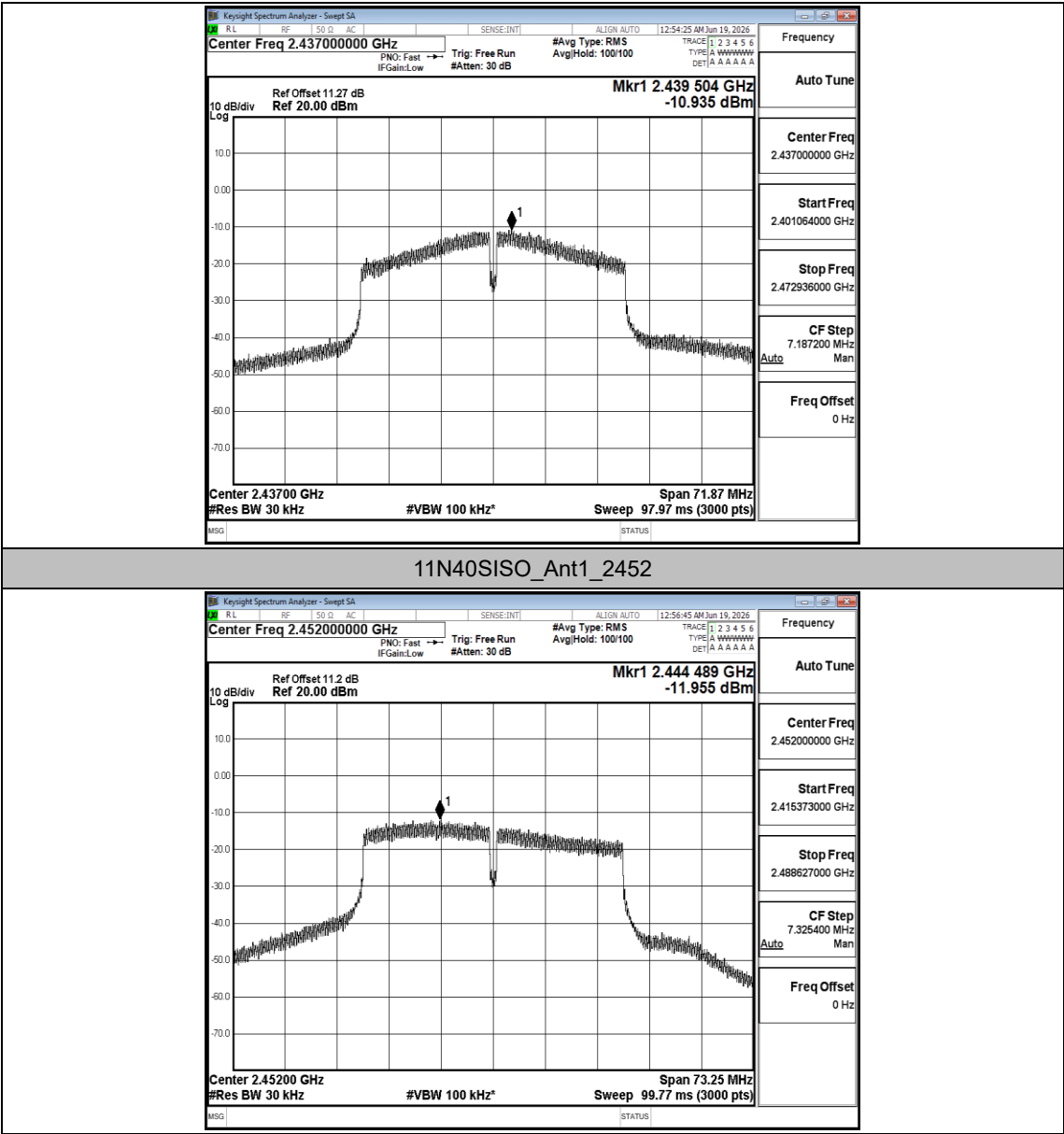












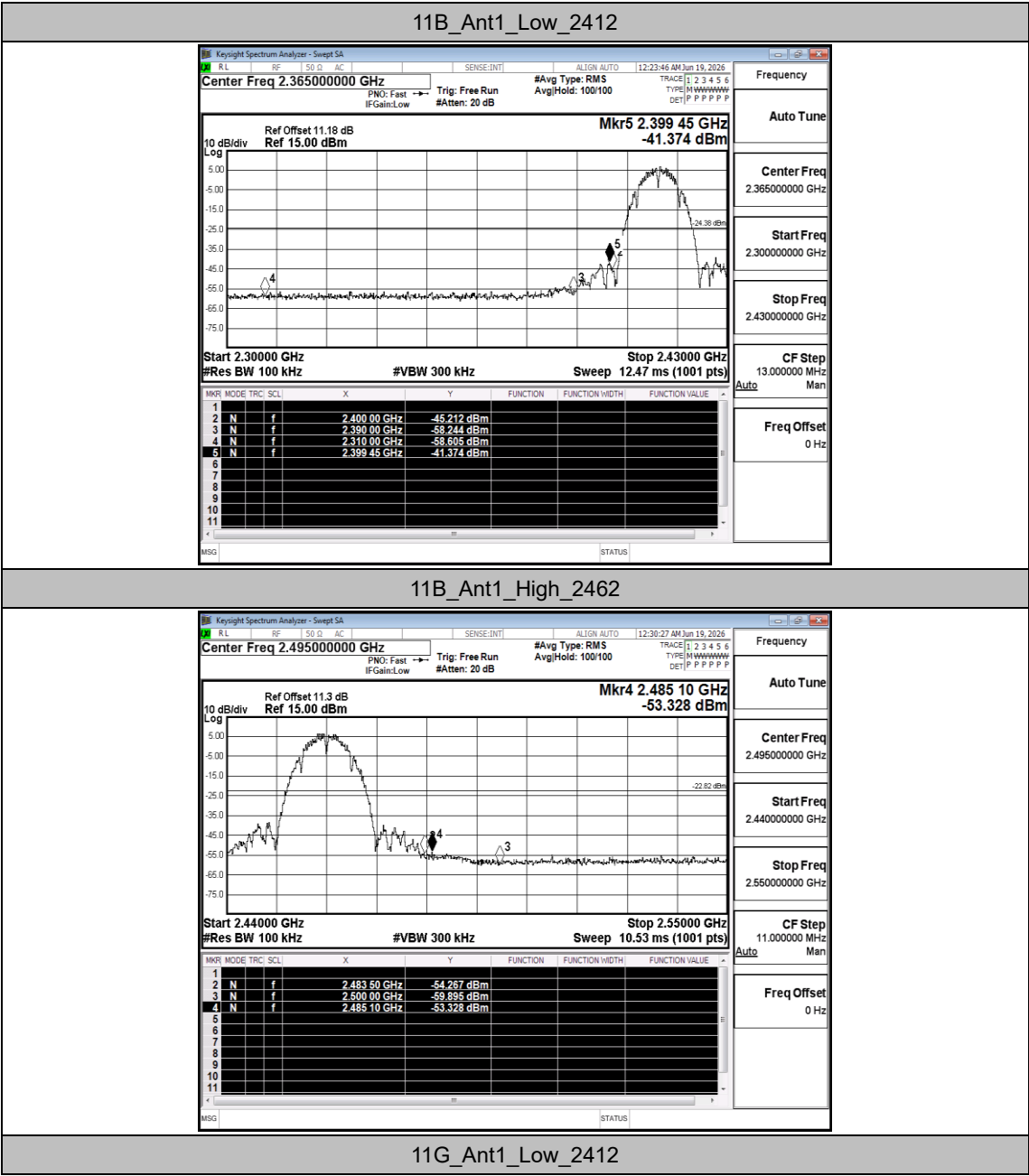
## C.4 Band edge measurements

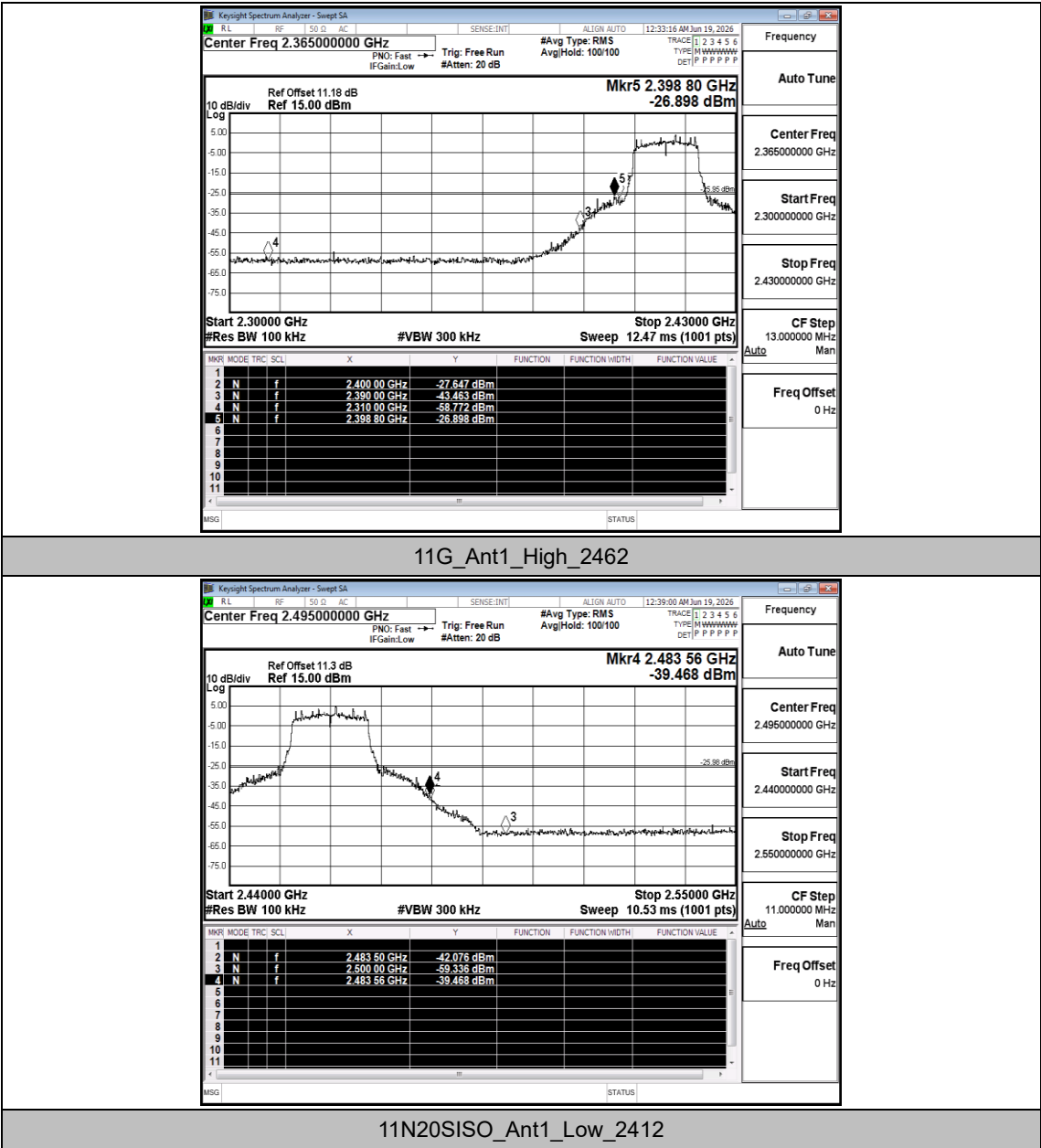
### Test Result

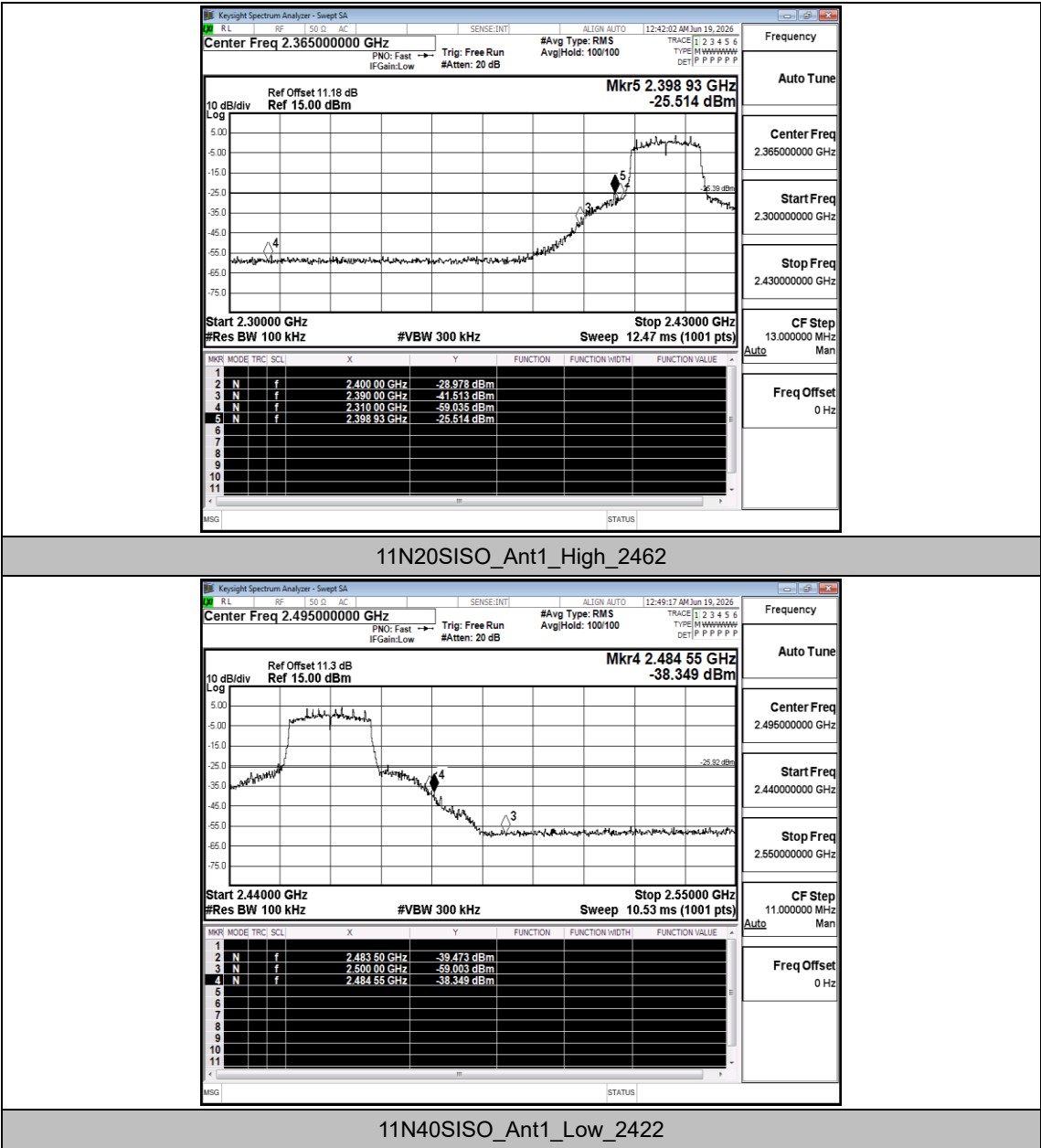
| TestMode  | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412            | 5.62          | -41.37      | ≤-24.38    | PASS    |
|           |         | High   | 2462            | 7.18          | -53.33      | ≤-22.82    | PASS    |
| 11G       | Ant1    | Low    | 2412            | 4.05          | -26.9       | ≤-25.95    | PASS    |
|           |         | High   | 2462            | 4.02          | -39.47      | ≤-25.98    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412            | 4.61          | -25.51      | ≤-25.39    | PASS    |
|           |         | High   | 2462            | 4.08          | -38.35      | ≤-25.92    | PASS    |
| 11N40SISO | Ant1    | Low    | 2422            | 2.98          | -31.43      | ≤-27.02    | PASS    |
|           |         | High   | 2452            | 1.56          | -33.51      | ≤-28.44    | PASS    |

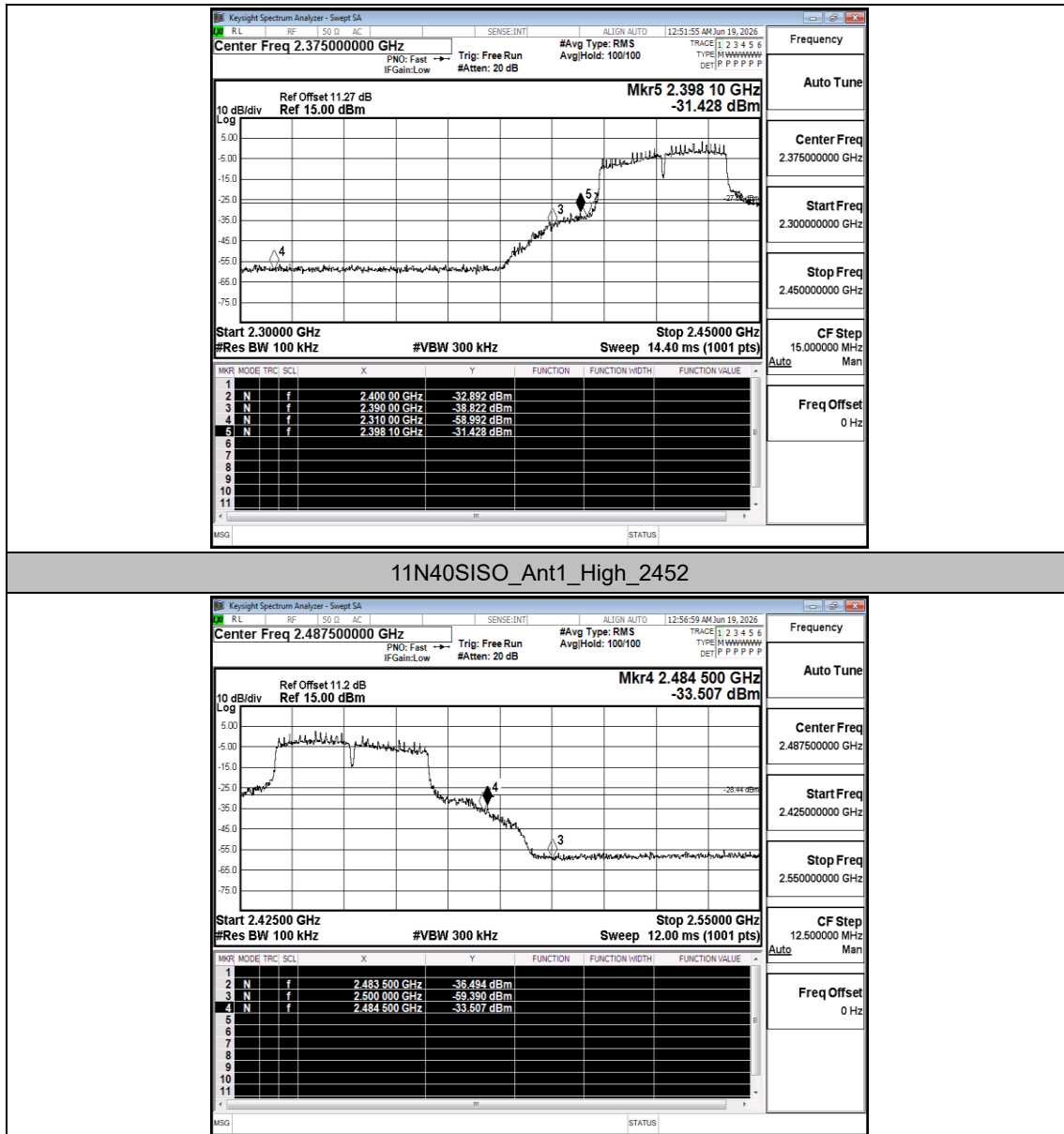
Note: offset=System attenuation +caval loss

Test Graphs









## C.5 Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency [MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412            | Reference       | 6.77           | 6.77         | ---         | PASS    |
|           |         |                 | 30~1000         | 6.77           | -70.26       | ≤-23.23     | PASS    |
|           |         |                 | 1000~26500      | 6.77           | -35.41       | ≤-23.23     | PASS    |
|           |         | 2437            | Reference       | 6.99           | 6.99         | ---         | PASS    |
|           |         |                 | 30~1000         | 6.99           | -70.82       | ≤-23.01     | PASS    |
|           |         |                 | 1000~26500      | 6.99           | -44.67       | ≤-23.01     | PASS    |
|           |         | 2462            | Reference       | 7.26           | 7.26         | ---         | PASS    |
|           |         |                 | 30~1000         | 7.26           | -70.19       | ≤-22.74     | PASS    |
|           |         |                 | 1000~26500      | 7.26           | -38.58       | ≤-22.74     | PASS    |
| 11G       | Ant1    | 2412            | Reference       | 3.84           | 3.84         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.84           | -69.26       | ≤-26.16     | PASS    |
|           |         |                 | 1000~26500      | 3.84           | -44.81       | ≤-26.16     | PASS    |
|           |         | 2437            | Reference       | 4.42           | 4.42         | ---         | PASS    |
|           |         |                 | 30~1000         | 4.42           | -70.39       | ≤-25.58     | PASS    |
|           |         |                 | 1000~26500      | 4.42           | -44.23       | ≤-25.58     | PASS    |
|           |         | 2462            | Reference       | 4.27           | 4.27         | ---         | PASS    |
|           |         |                 | 30~1000         | 4.27           | -69.46       | ≤-25.73     | PASS    |
|           |         |                 | 1000~26500      | 4.27           | -44.82       | ≤-25.73     | PASS    |
| 11N20SISO | Ant1    | 2412            | Reference       | 4.06           | 4.06         | ---         | PASS    |
|           |         |                 | 30~1000         | 4.06           | -68.6        | ≤-25.94     | PASS    |
|           |         |                 | 1000~26500      | 4.06           | -44.72       | ≤-25.94     | PASS    |
|           |         | 2437            | Reference       | 4.42           | 4.42         | ---         | PASS    |
|           |         |                 | 30~1000         | 4.42           | -69.64       | ≤-25.58     | PASS    |
|           |         |                 | 1000~26500      | 4.42           | -44.74       | ≤-25.58     | PASS    |
|           |         | 2462            | Reference       | 4.04           | 4.04         | ---         | PASS    |
|           |         |                 | 30~1000         | 4.04           | -69.57       | ≤-25.96     | PASS    |
|           |         |                 | 1000~26500      | 4.04           | -44.18       | ≤-25.96     | PASS    |
| 11N40SISO | Ant1    | 2422            | Reference       | 2.38           | 2.38         | ---         | PASS    |
|           |         |                 | 30~1000         | 2.38           | -69.68       | ≤-27.62     | PASS    |
|           |         |                 | 1000~26500      | 2.38           | -44.44       | ≤-27.62     | PASS    |
|           |         | 2437            | Reference       | 3.18           | 3.18         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.18           | -69.72       | ≤-26.82     | PASS    |
|           |         |                 | 1000~26500      | 3.18           | -44.7        | ≤-26.82     | PASS    |
|           |         | 2452            | Reference       | 1.89           | 1.89         | ---         | PASS    |
|           |         |                 | 30~1000         | 1.89           | -70.15       | ≤-28.11     | PASS    |
|           |         |                 | 1000~26500      | 1.89           | -44.75       | ≤-28.11     | PASS    |

Test Graphs

