

## **FCC Appendix RF Test Data for 2.4GWIFI**

**FCC ID** : 2BUCW-VT-1

**Company** : ANICHIPS CO.,LIMITED

**EUT** : Children Video Intercom

**Model Number** : VT-1

**Report No.** : CTA25112803001

**Reviewed By** : Eric Wang

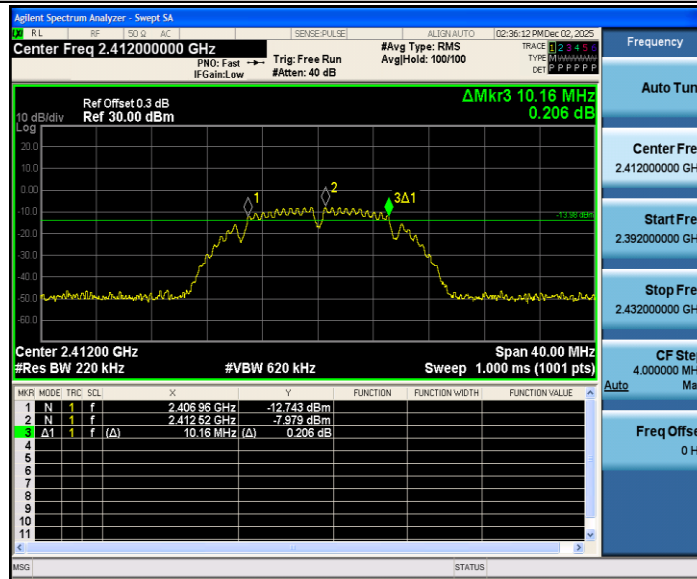
## Appendix A: DTS Bandwidth

### Test Result

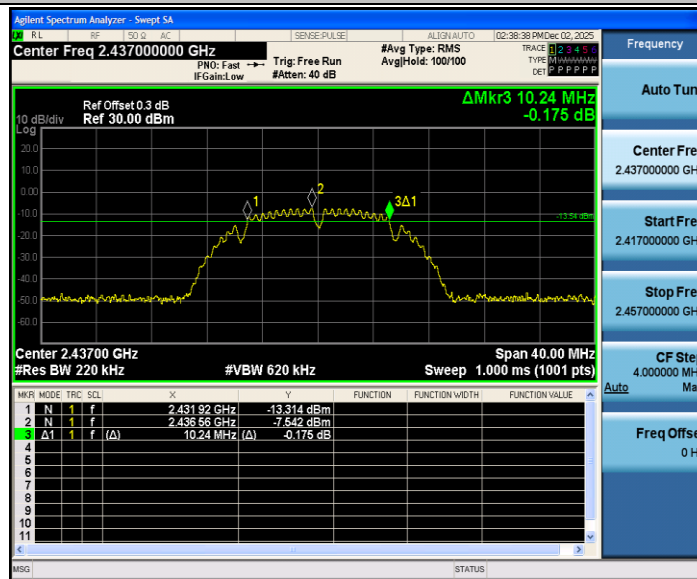
| TestMode  | Antenna | Frequency[MHz] | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 10.160          | 2406.960 | 2417.120 | 0.5        | PASS    |
|           |         | 2437           | 10.240          | 2431.920 | 2442.160 | 0.5        | PASS    |
|           |         | 2462           | 10.200          | 2456.920 | 2467.120 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 15.760          | 2404.200 | 2419.960 | 0.5        | PASS    |
|           |         | 2437           | 15.640          | 2429.120 | 2444.760 | 0.5        | PASS    |
|           |         | 2462           | 15.640          | 2454.240 | 2469.880 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.760          | 2403.480 | 2420.240 | 0.5        | PASS    |
|           |         | 2437           | 16.920          | 2428.440 | 2445.360 | 0.5        | PASS    |
|           |         | 2462           | 16.720          | 2453.640 | 2470.360 | 0.5        | PASS    |

## Test Graphs

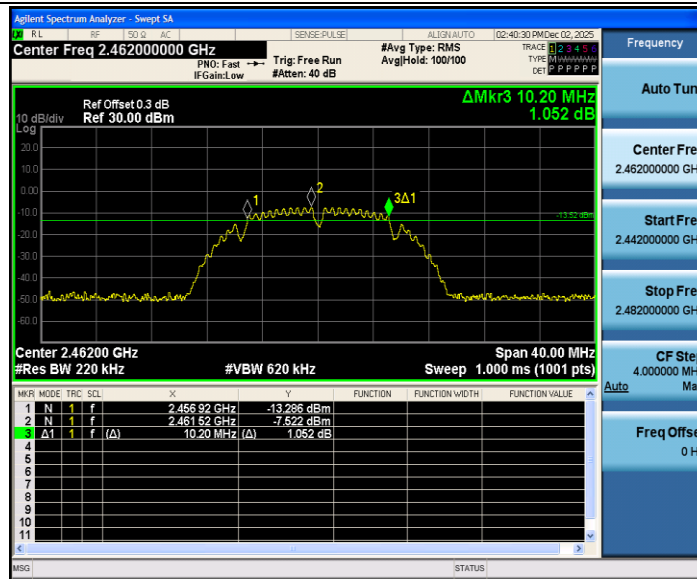
11B\_Ant1\_2412



11B\_Ant1\_2437



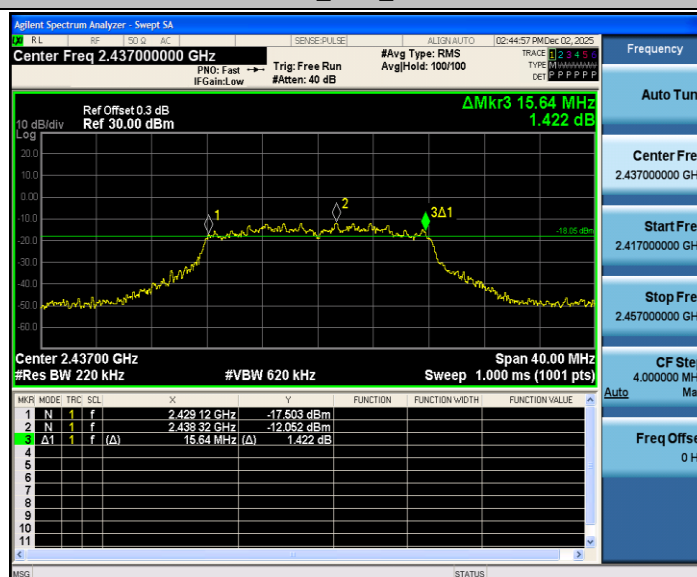
11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2437



# 11G\_Ant1\_2462



# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



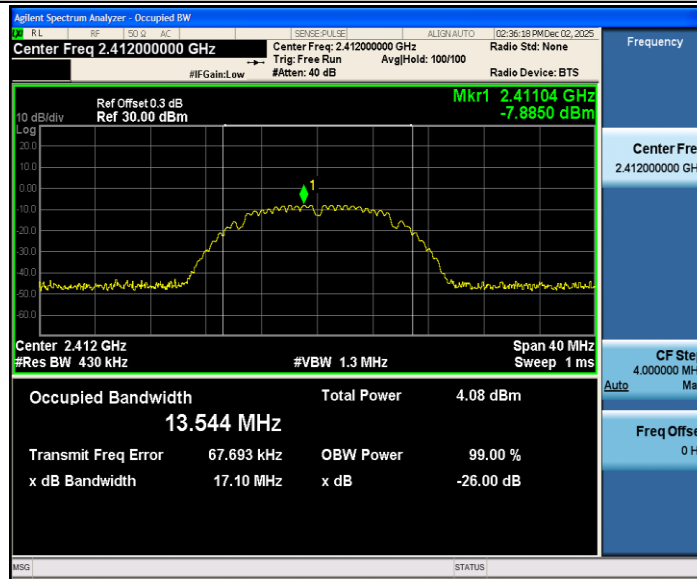
## Appendix B: Occupied Channel Bandwidth

### Test Result

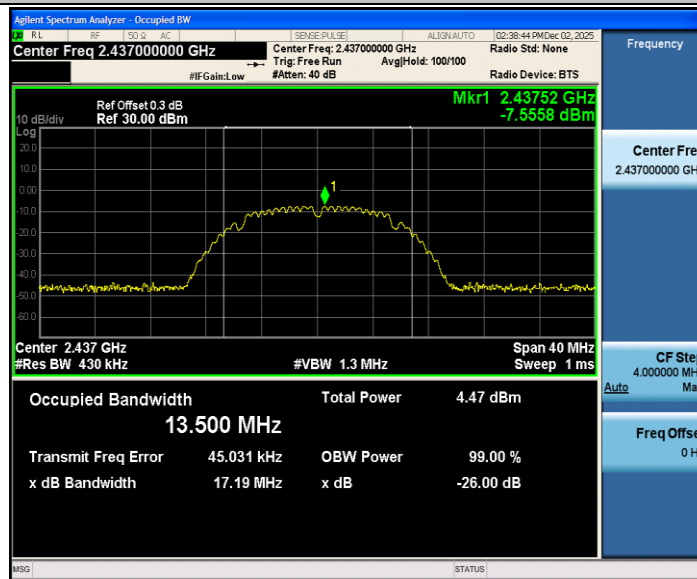
| TestMode  | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                   | 13.544    | 2405.2957 | 2418.8397 | ---        | ---     |
|           |         | 2437                   | 13.500    | 2430.2950 | 2443.7950 | ---        | ---     |
|           |         | 2462                   | 13.546    | 2455.2517 | 2468.7977 | ---        | ---     |
| 11G       | Ant1    | 2412                   | 16.962    | 2403.6351 | 2420.5971 | ---        | ---     |
|           |         | 2437                   | 16.901    | 2428.5807 | 2445.4817 | ---        | ---     |
|           |         | 2462                   | 16.944    | 2453.5883 | 2470.5323 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                   | 17.938    | 2403.0660 | 2421.0040 | ---        | ---     |
|           |         | 2437                   | 18.034    | 2428.0327 | 2446.0667 | ---        | ---     |
|           |         | 2462                   | 17.903    | 2453.0354 | 2470.9384 | ---        | ---     |

## Test Graphs

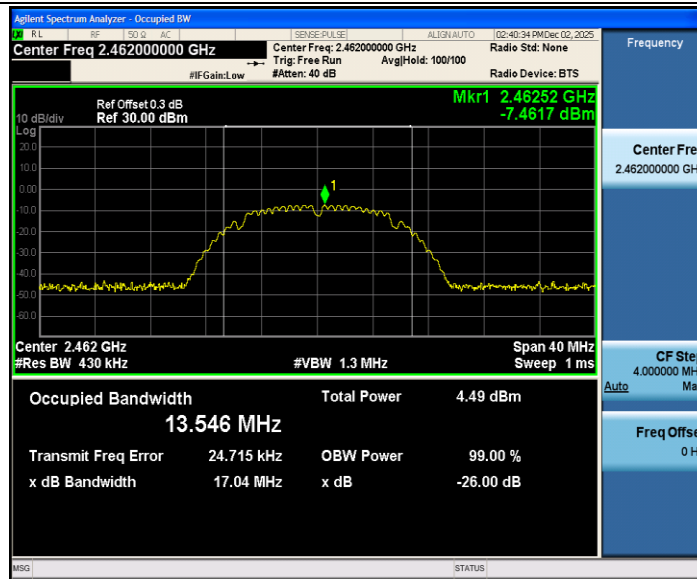
11B\_Ant1\_2412



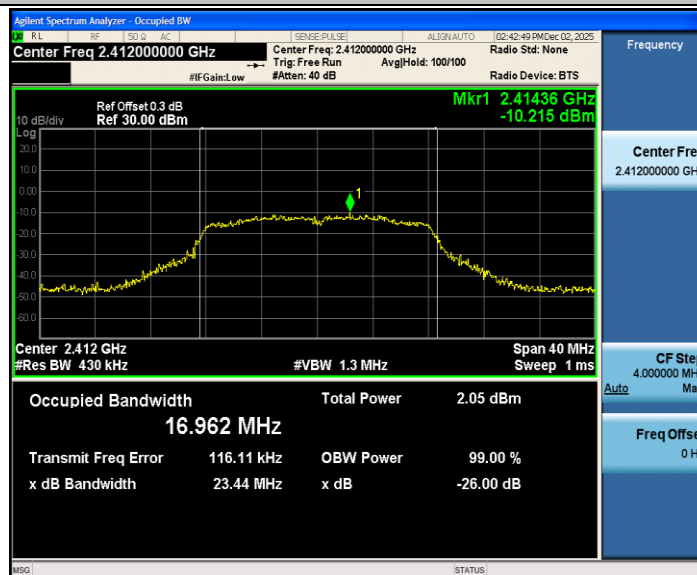
11B\_Ant1\_2437



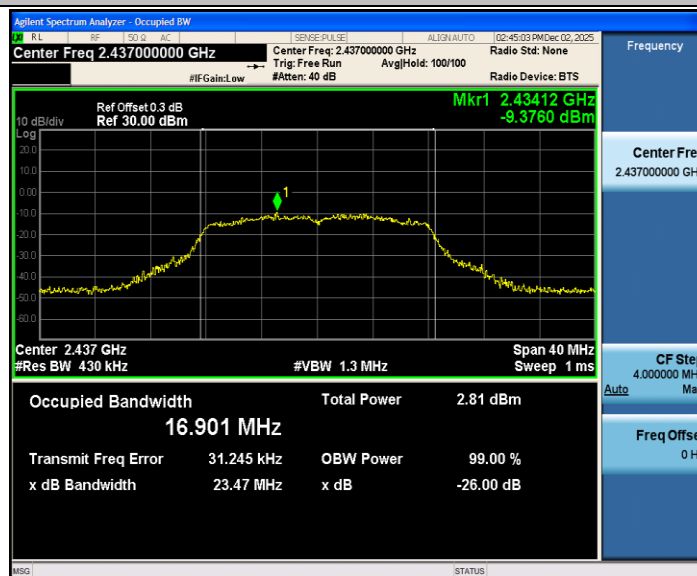
11B\_Ant1\_2462



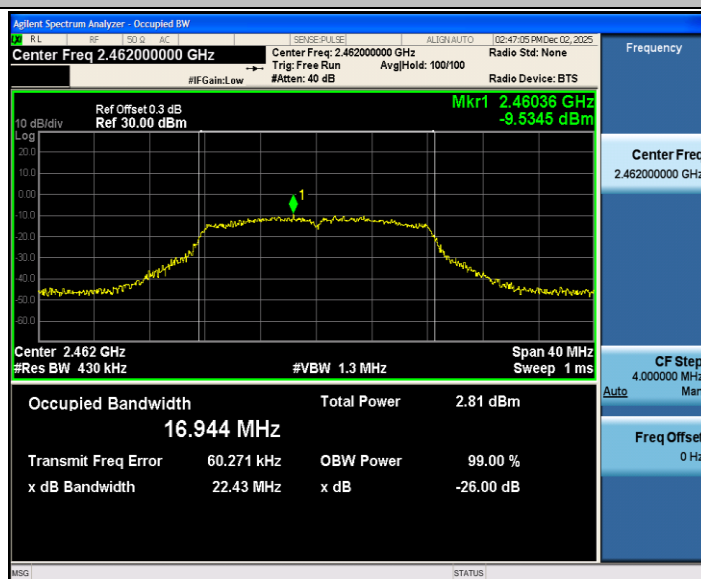
11G\_Ant1\_2412



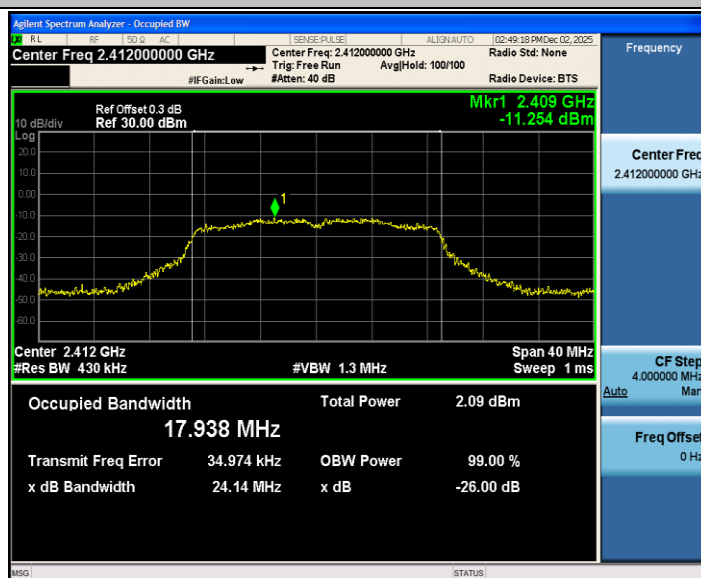
11G\_Ant1\_2437



# 11G\_Ant1\_2462



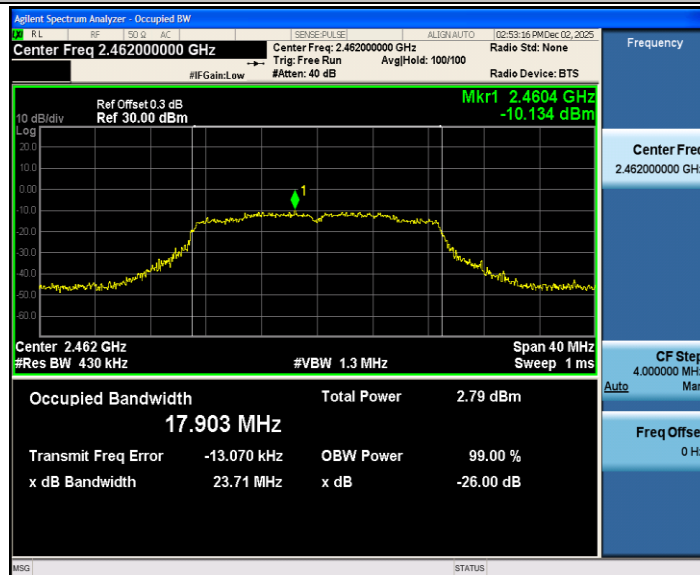
# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|------------------|-------------|---------|
| 11B       | Ant1    | 2412           | 3.83             | ≤30.00      | PASS    |
|           |         | 2437           | 4.33             | ≤30.00      | PASS    |
|           |         | 2462           | 4.24             | ≤30.00      | PASS    |
| 11G       | Ant1    | 2412           | 3.06             | ≤30.00      | PASS    |
|           |         | 2437           | 3.66             | ≤30.00      | PASS    |
|           |         | 2462           | 3.86             | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2412           | 2.92             | ≤30.00      | PASS    |
|           |         | 2437           | 3.51             | ≤30.00      | PASS    |
|           |         | 2462           | 3.65             | ≤30.00      | PASS    |

## Appendix D: Maximum power spectral density

### Test Result

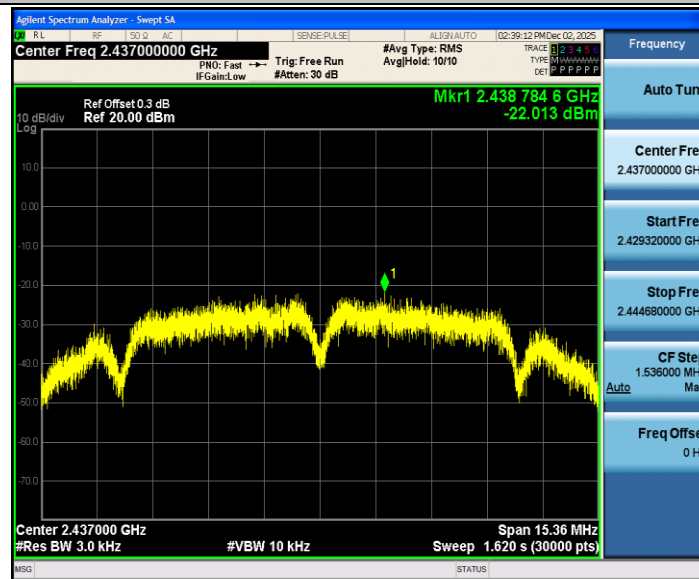
| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -21.93               | ≤8.00           | PASS    |
|           |         | 2437           | -22.01               | ≤8.00           | PASS    |
|           |         | 2462           | -22.10               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -29.26               | ≤8.00           | PASS    |
|           |         | 2437           | -28.54               | ≤8.00           | PASS    |
|           |         | 2462           | -28.33               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -28.91               | ≤8.00           | PASS    |
|           |         | 2437           | -27.52               | ≤8.00           | PASS    |
|           |         | 2462           | -27.92               | ≤8.00           | PASS    |

## Test Graphs

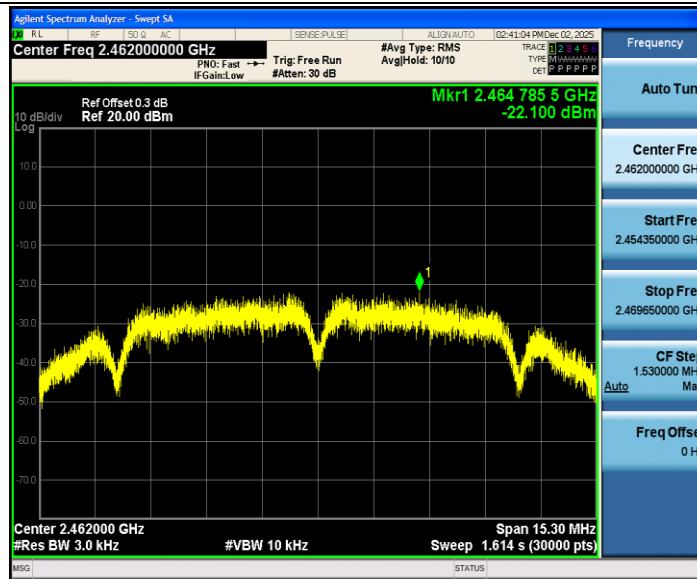
11B\_Ant1\_2412



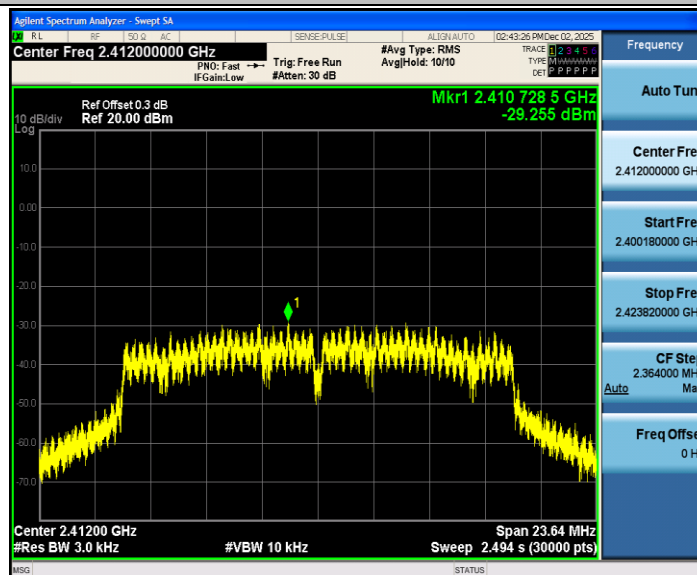
11B\_Ant1\_2437



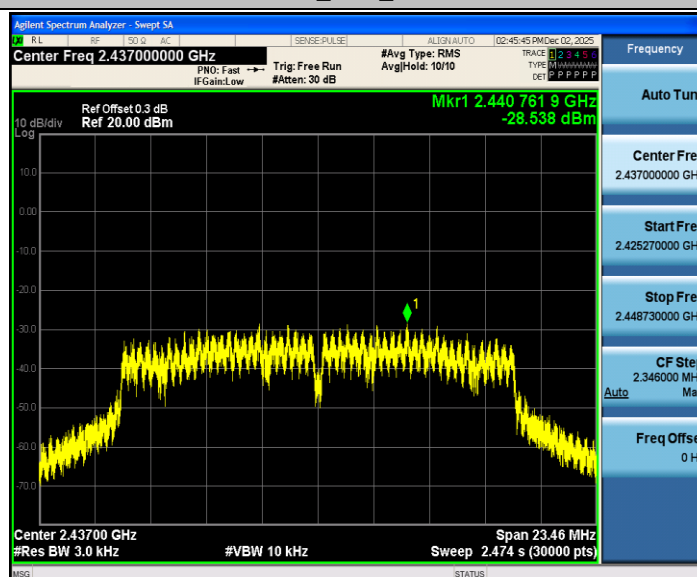
11B\_Ant1\_2462



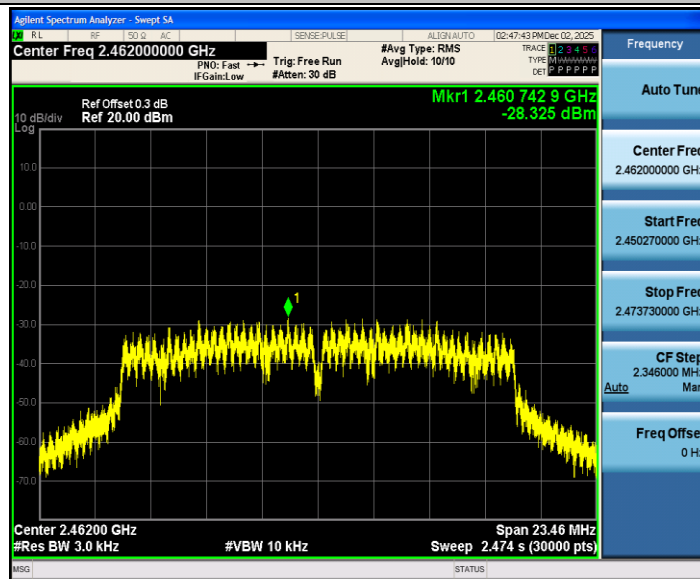
11G\_Ant1\_2412



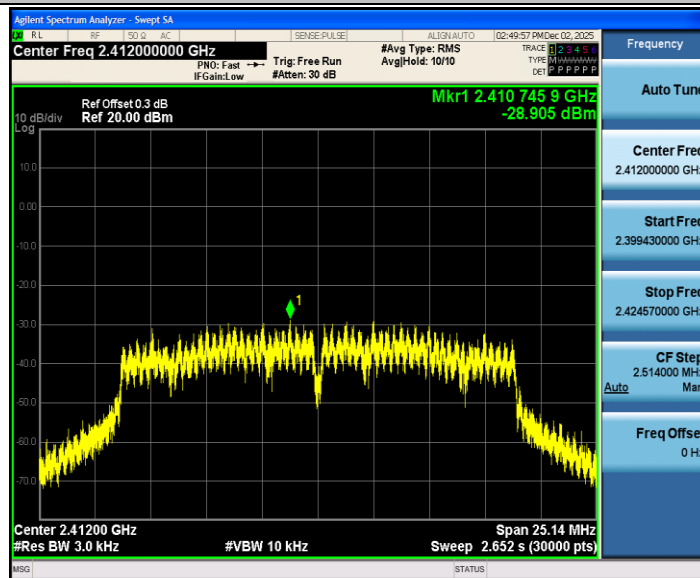
11G\_Ant1\_2437



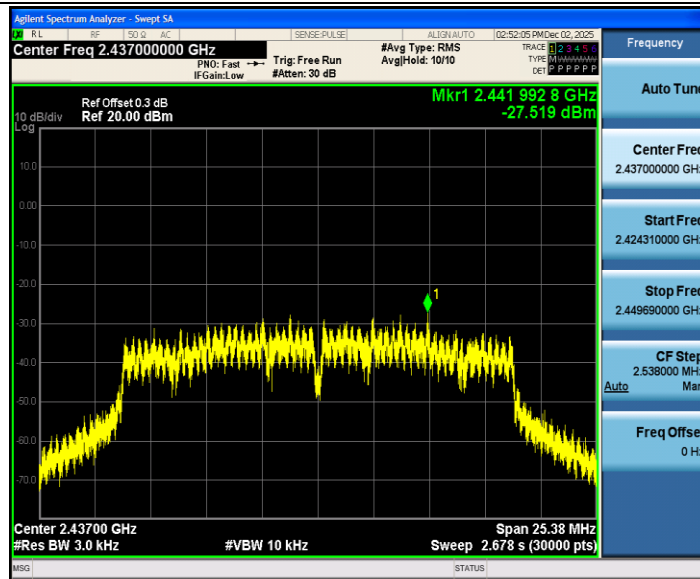
# 11G\_Ant1\_2462



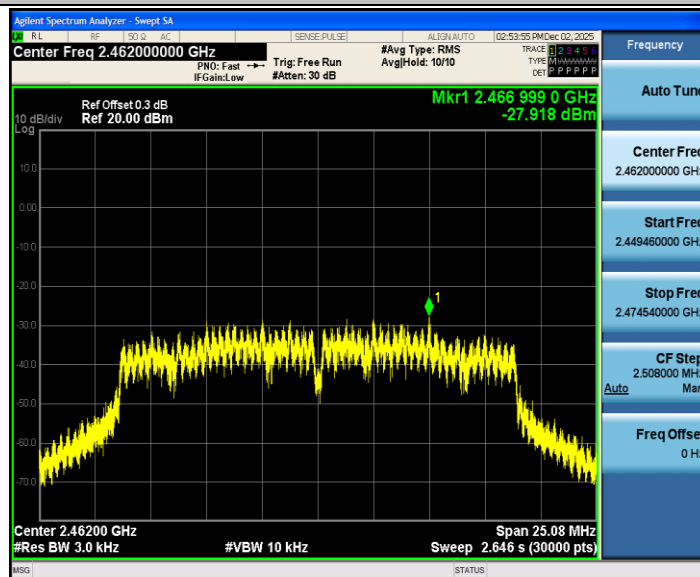
# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



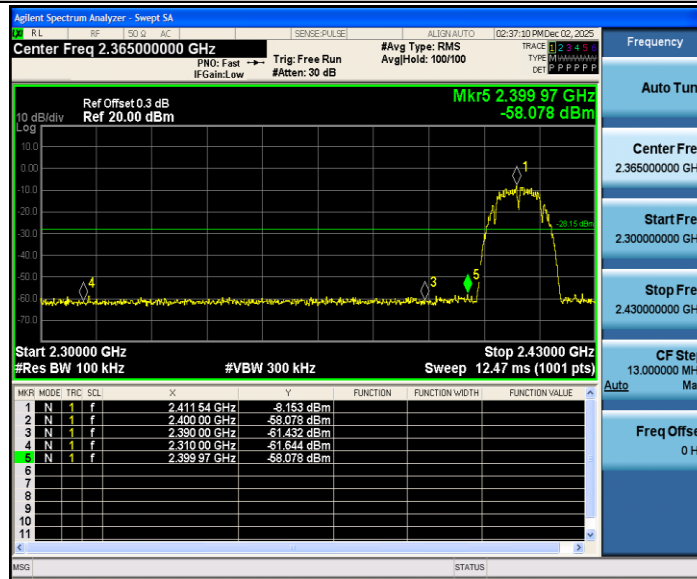
## Appendix E: Band edge measurements

### Test Result

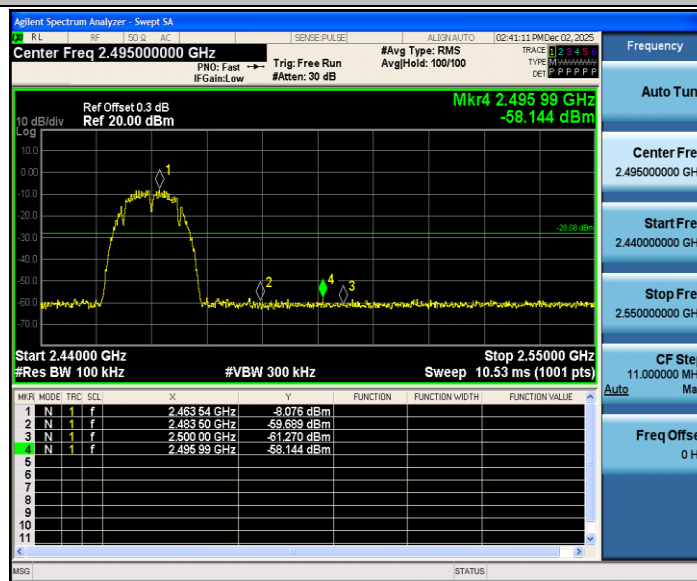
| TestMode  | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412           | -8.15         | -58.08      | ≤-28.15    | PASS    |
|           |         | High         | 2462           | -8.08         | -58.14      | ≤-28.08    | PASS    |
| 11G       | Ant1    | Low          | 2412           | -13.38        | -45.73      | ≤-33.38    | PASS    |
|           |         | High         | 2462           | -12.69        | -57.71      | ≤-32.69    | PASS    |
| 11N20SISO | Ant1    | Low          | 2412           | -13.36        | -44.2       | ≤-33.36    | PASS    |
|           |         | High         | 2462           | -13.00        | -58.22      | ≤-33       | PASS    |

## Test Graphs

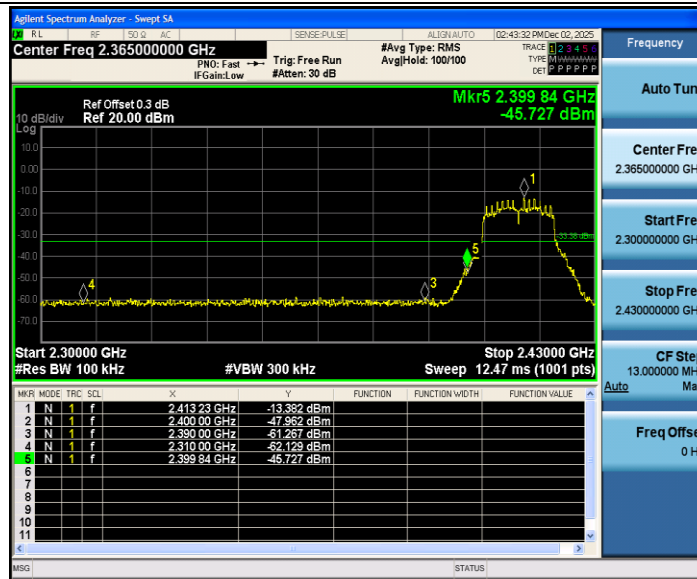
11B\_Ant1\_Low\_2412



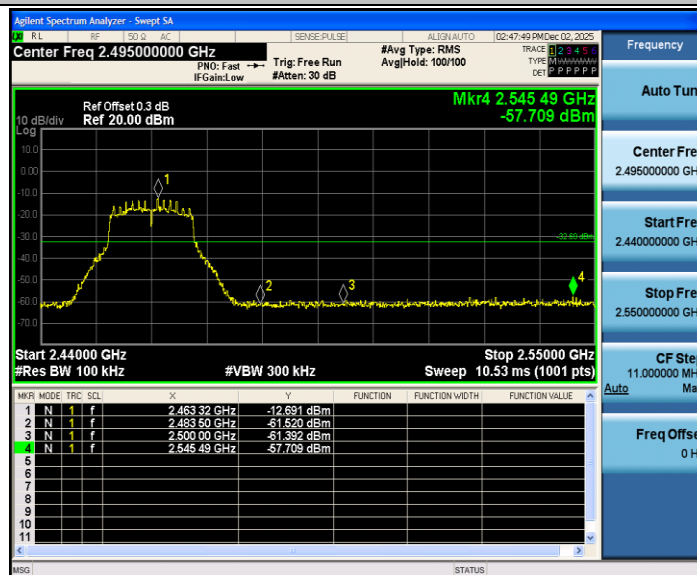
11B\_Ant1\_High\_2462



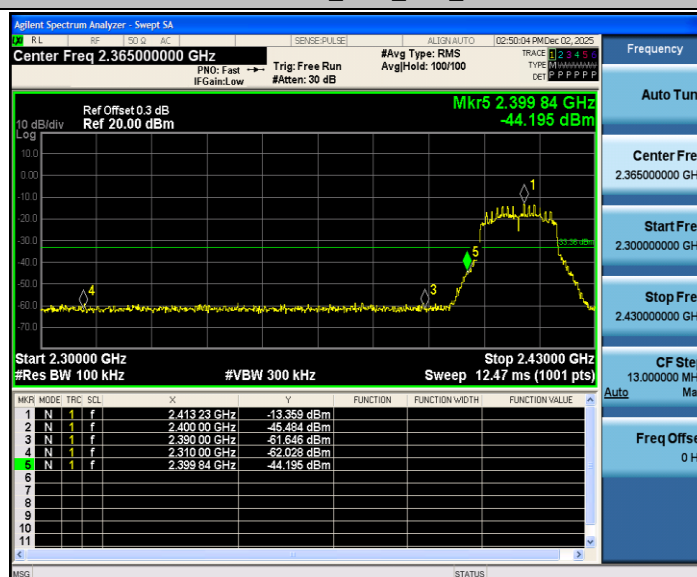
11G\_Ant1\_Low\_2412



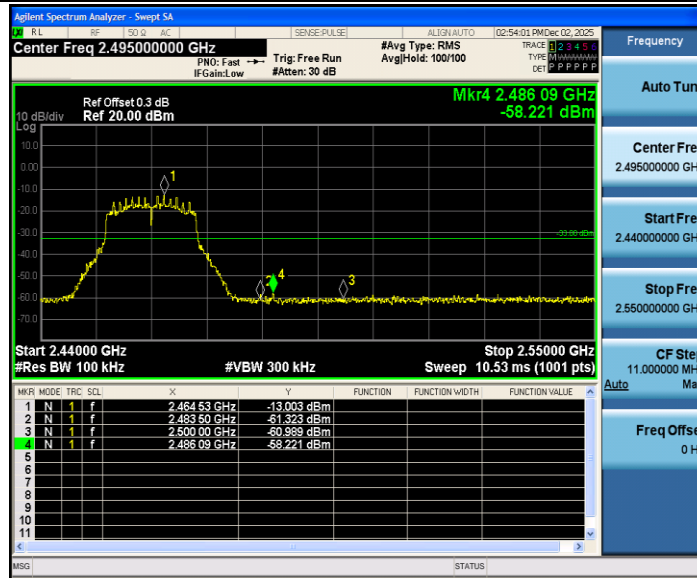
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



# 11N20SISO\_Ant1\_High\_2462



## Appendix F: Conducted Spurious Emission

### Test Result

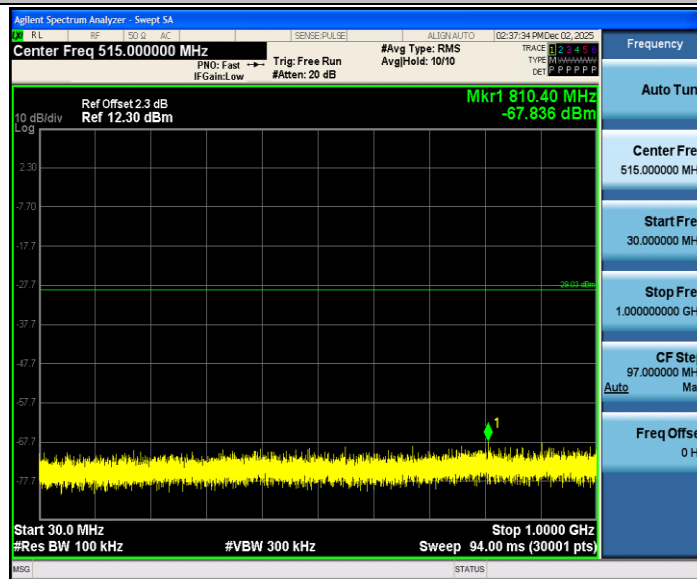
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | -9.03          | -9.03        | ---         | PASS    |
|           |         |                | 30~1000         | -9.03          | -67.84       | ≤-29.03     | PASS    |
|           |         |                | 1000~26500      | -9.03          | -55.21       | ≤-29.03     | PASS    |
|           |         | 2437           | Reference       | -9.08          | -9.08        | ---         | PASS    |
|           |         |                | 30~1000         | -9.08          | -67.61       | ≤-29.08     | PASS    |
|           |         |                | 1000~26500      | -9.08          | -55.56       | ≤-29.08     | PASS    |
|           |         | 2462           | Reference       | -9.53          | -9.53        | ---         | PASS    |
|           |         |                | 30~1000         | -9.53          | -67.9        | ≤-29.53     | PASS    |
|           |         |                | 1000~26500      | -9.53          | -55.8        | ≤-29.53     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | -13.80         | -13.80       | ---         | PASS    |
|           |         |                | 30~1000         | -13.80         | -68.2        | ≤-33.8      | PASS    |
|           |         |                | 1000~26500      | -13.80         | -54.86       | ≤-33.8      | PASS    |
|           |         | 2437           | Reference       | -13.22         | -13.22       | ---         | PASS    |
|           |         |                | 30~1000         | -13.22         | -67.86       | ≤-33.22     | PASS    |
|           |         |                | 1000~26500      | -13.22         | -55.37       | ≤-33.22     | PASS    |
|           |         | 2462           | Reference       | -12.73         | -12.73       | ---         | PASS    |
|           |         |                | 30~1000         | -12.73         | -68.21       | ≤-32.73     | PASS    |
|           |         |                | 1000~26500      | -12.73         | -55.23       | ≤-32.73     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -14.26         | -14.26       | ---         | PASS    |
|           |         |                | 30~1000         | -14.26         | -68.46       | ≤-34.26     | PASS    |
|           |         |                | 1000~26500      | -14.26         | -55.09       | ≤-34.26     | PASS    |
|           |         | 2437           | Reference       | -13.48         | -13.48       | ---         | PASS    |
|           |         |                | 30~1000         | -13.48         | -67.65       | ≤-33.48     | PASS    |
|           |         |                | 1000~26500      | -13.48         | -55.47       | ≤-33.48     | PASS    |
|           |         | 2462           | Reference       | -13.91         | -13.91       | ---         | PASS    |
|           |         |                | 30~1000         | -13.91         | -67.75       | ≤-33.91     | PASS    |
|           |         |                | 1000~26500      | -13.91         | -55.72       | ≤-33.91     | PASS    |

## Test Graphs

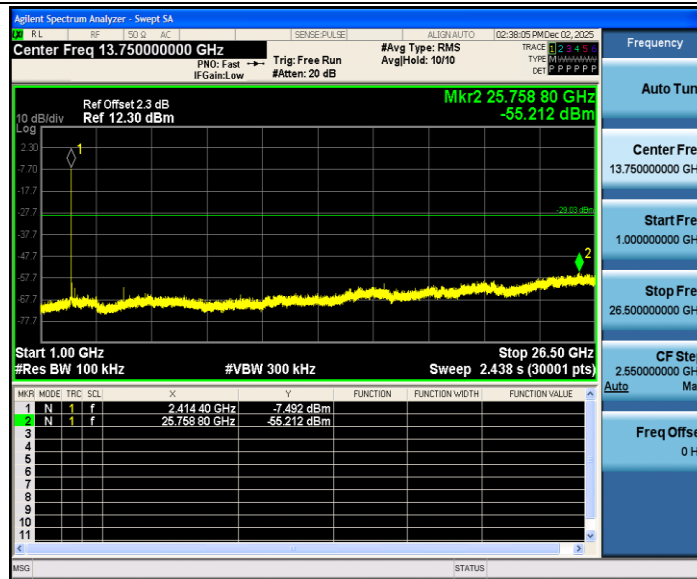
11B\_Ant1\_2412\_0~Reference



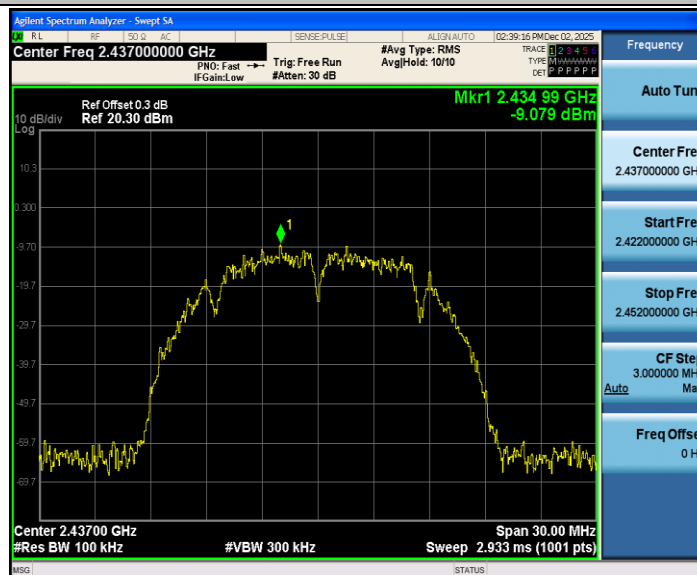
11B\_Ant1\_2412\_30~1000



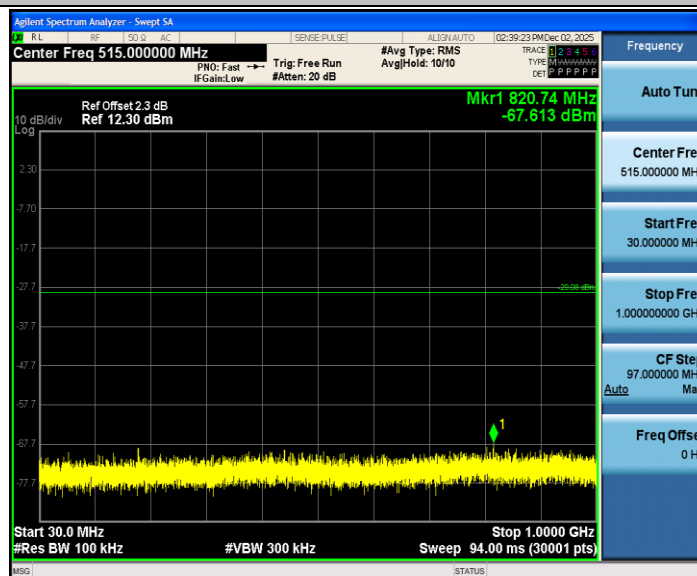
11B\_Ant1\_2412\_1000~26500



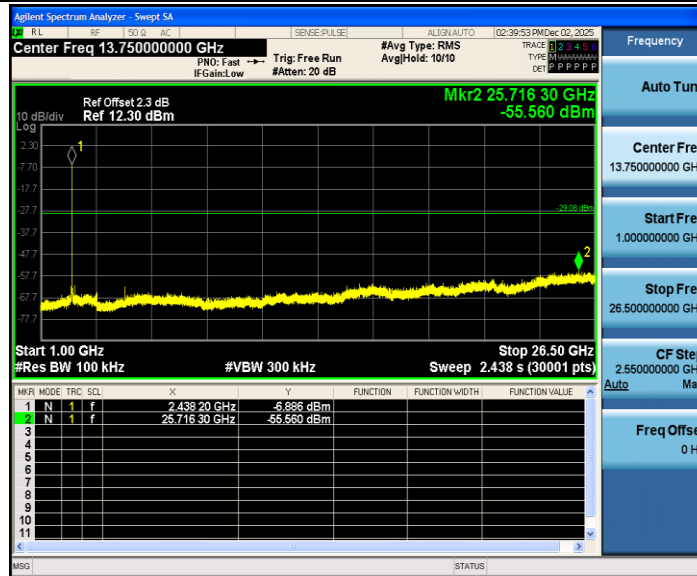
11B\_Ant1\_2437\_0~Reference



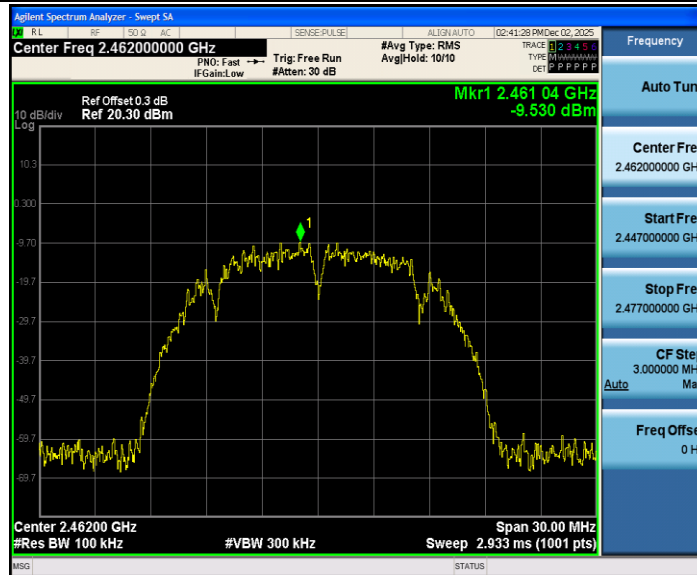
11B\_Ant1\_2437\_30~1000



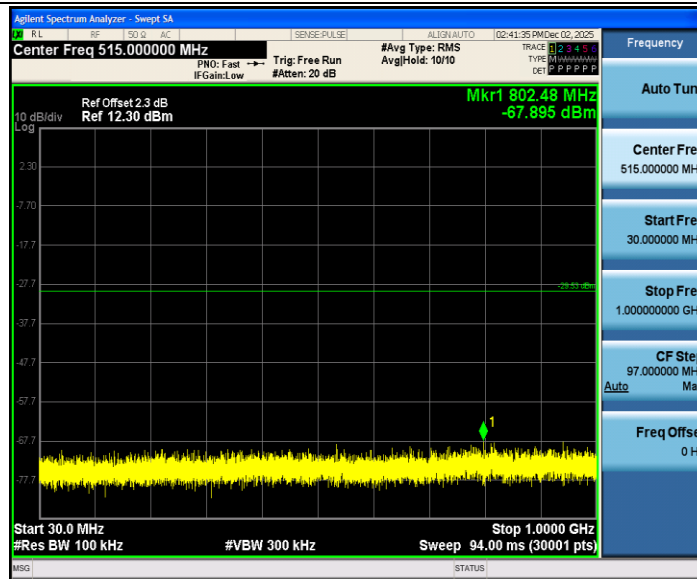
# 11B\_Ant1\_2437\_1000~26500



# 11B\_Ant1\_2462\_0~Reference



# 11B\_Ant1\_2462\_30~1000



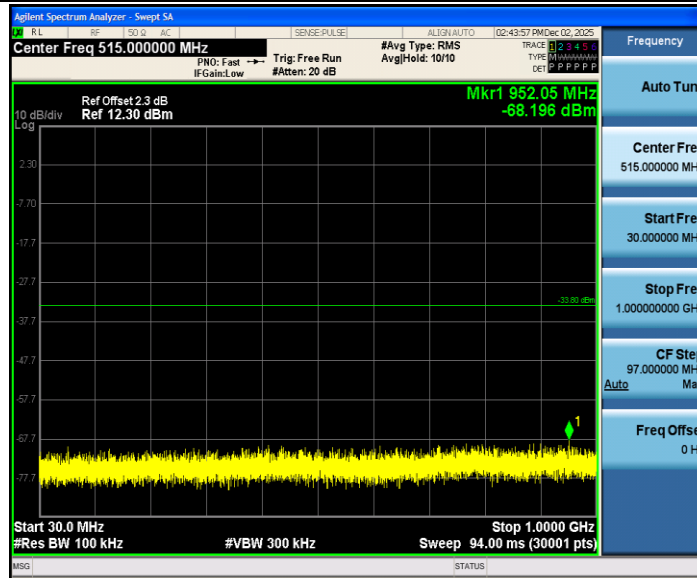
11B\_Ant1\_2462\_1000~26500



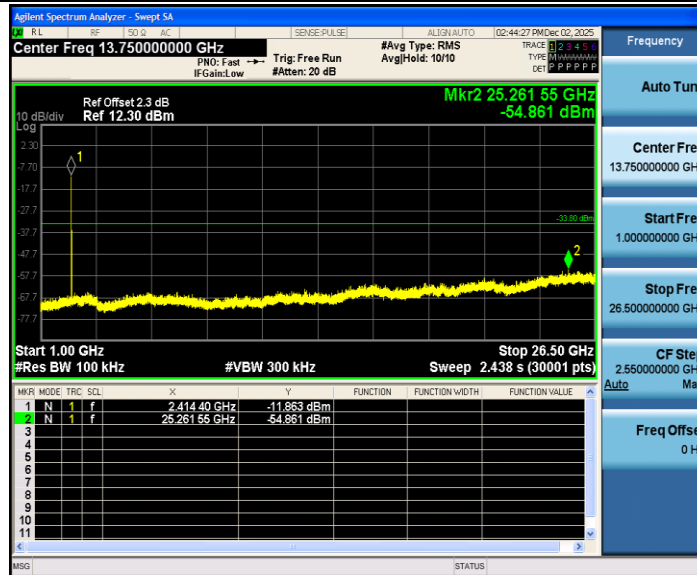
11G\_Ant1\_2412\_0~Reference



# 11G\_Ant1\_2412\_30~1000



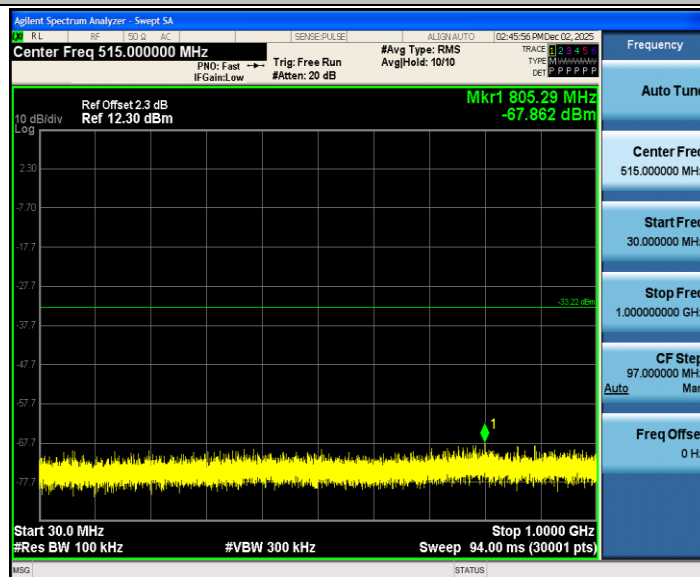
# 11G\_Ant1\_2412\_1000~26500



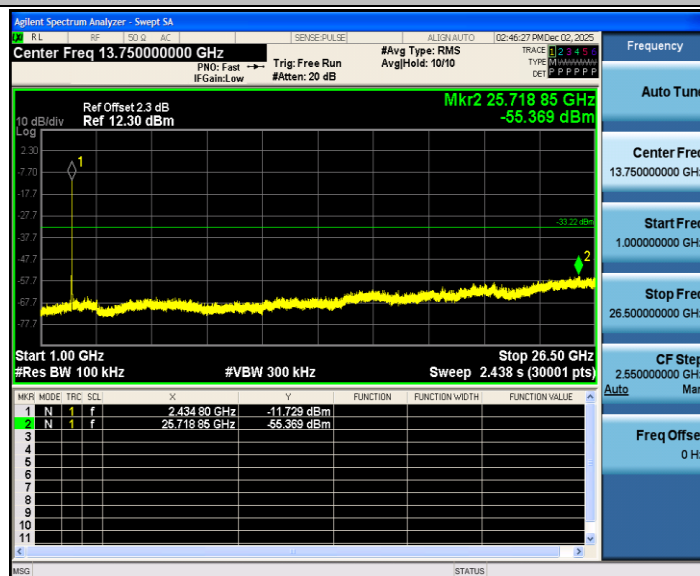
# 11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



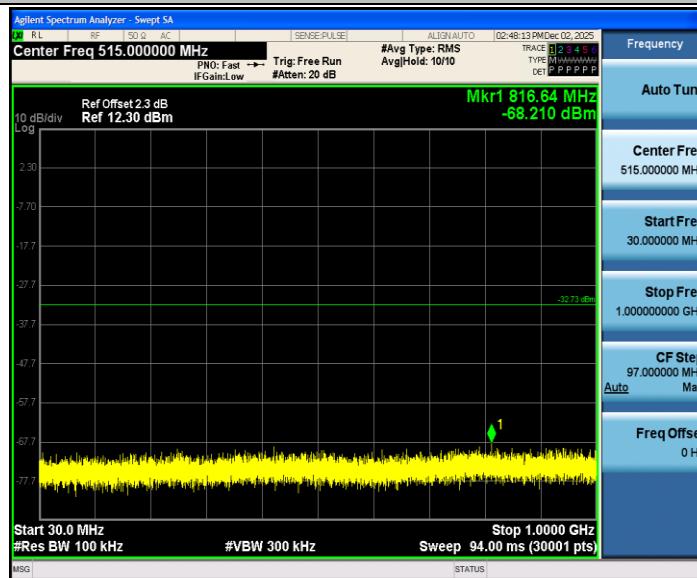
11G\_Ant1\_2437\_1000~26500



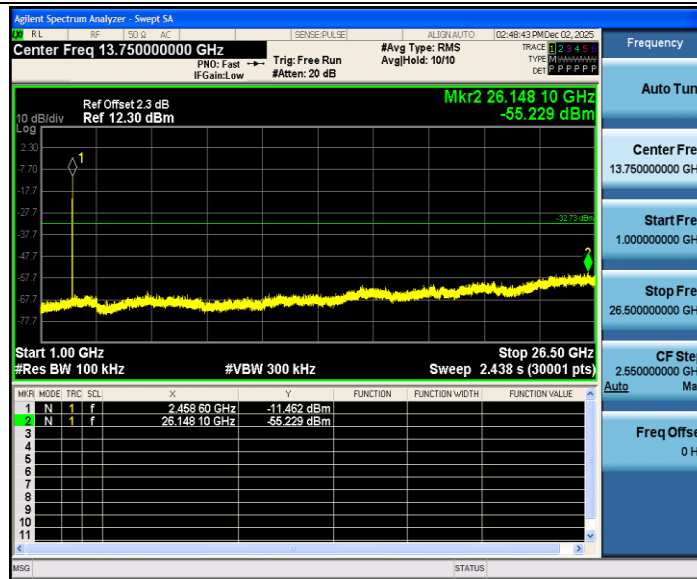
# 11G\_Ant1\_2462\_0~Reference



# 11G\_Ant1\_2462\_30~1000



# 11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000

