

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

**FCC ID** : 2A35W-3518D2

**Company** : Shenzhen Haochuangyi Technology Co.,Ltd.

**EUT** : TV stick

**Model Number** : 3518D2

**Report No.** : CTA26080701603

**Reviewed By** : Eric Wang

## Appendix A: DTS Bandwidth

### Test Result

| TestMode   | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B        | Ant1    | 2412           | 10.200       | 2406.920 | 2417.120 | 0.5        | PASS    |
|            |         | 2437           | 10.200       | 2431.920 | 2442.120 | 0.5        | PASS    |
|            |         | 2462           | 10.240       | 2456.920 | 2467.160 | 0.5        | PASS    |
| 11G        | Ant1    | 2412           | 15.880       | 2404.040 | 2419.920 | 0.5        | PASS    |
|            |         | 2437           | 15.480       | 2429.320 | 2444.800 | 0.5        | PASS    |
|            |         | 2462           | 15.280       | 2454.440 | 2469.720 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 2412           | 16.880       | 2403.640 | 2420.520 | 0.5        | PASS    |
|            |         | 2437           | 17.000       | 2428.440 | 2445.440 | 0.5        | PASS    |
|            |         | 2462           | 17.040       | 2453.480 | 2470.520 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 2422           | 35.920       | 2404.160 | 2440.080 | 0.5        | PASS    |
|            |         | 2437           | 32.160       | 2422.760 | 2454.920 | 0.5        | PASS    |
|            |         | 2452           | 34.640       | 2435.200 | 2469.840 | 0.5        | PASS    |
| 11AX20SISO | Ant1    | 2412           | 18.880       | 2402.640 | 2421.520 | 0.5        | PASS    |
|            |         | 2437           | 18.800       | 2427.640 | 2446.440 | 0.5        | PASS    |
|            |         | 2462           | 17.720       | 2453.280 | 2471.000 | 0.5        | PASS    |
| 11AX40SISO | Ant1    | 2422           | 35.440       | 2405.360 | 2440.800 | 0.5        | PASS    |
|            |         | 2437           | 36.320       | 2419.240 | 2455.560 | 0.5        | PASS    |
|            |         | 2452           | 37.200       | 2433.760 | 2470.960 | 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



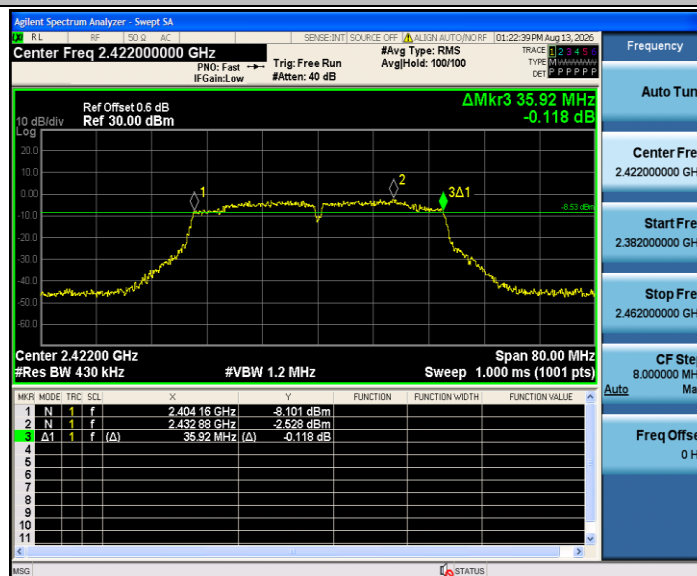
# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



# 11AX20SISO\_Ant1\_2412



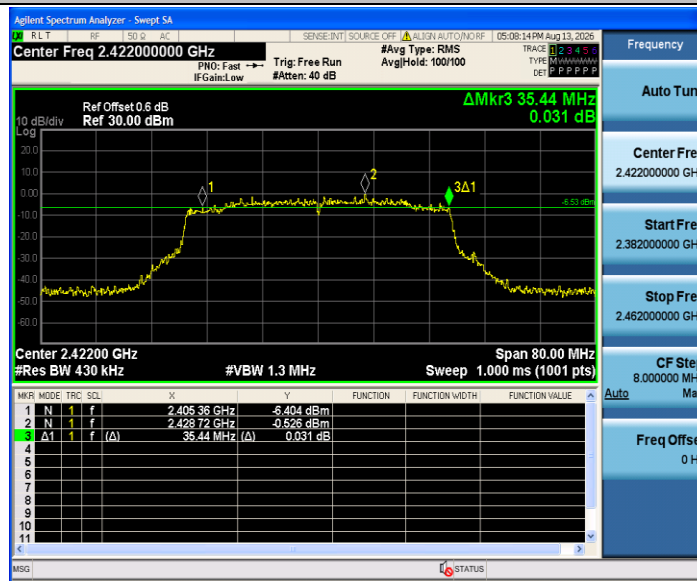
11AX20SISO\_Ant1\_2437



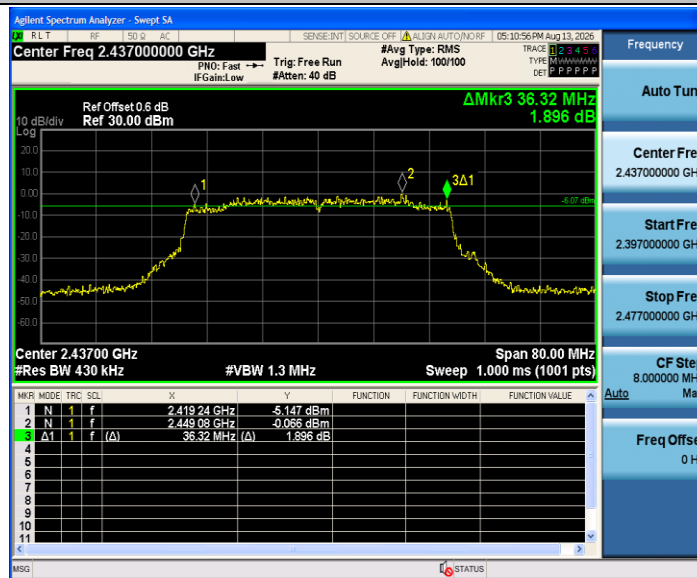
11AX20SISO\_Ant1\_2462



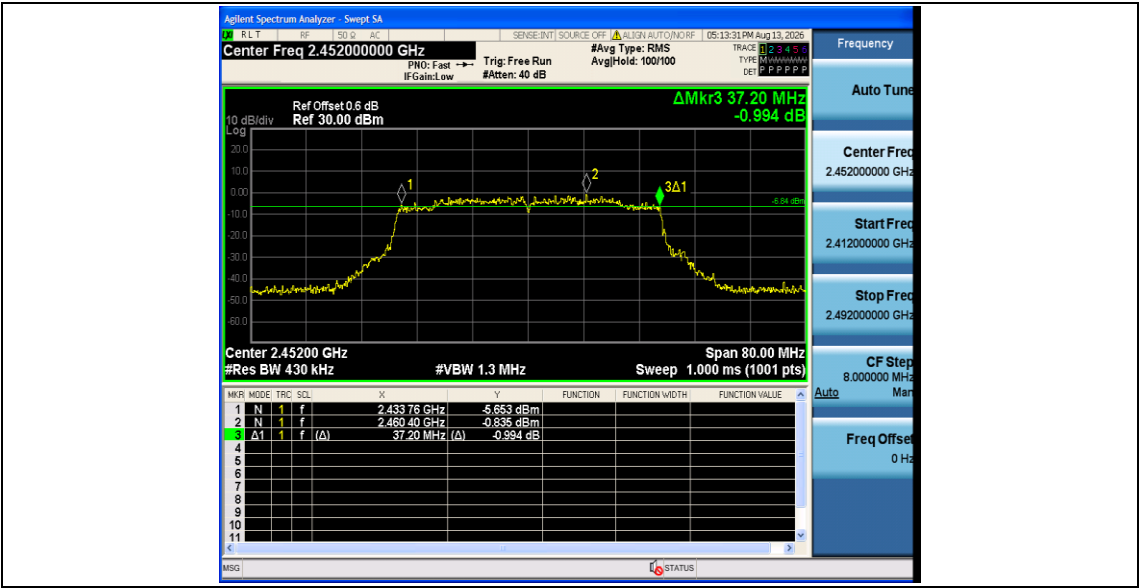
# 11AX40SISO\_Ant1\_2422



# 11AX40SISO\_Ant1\_2437



# 11AX40SISO\_Ant1\_2452



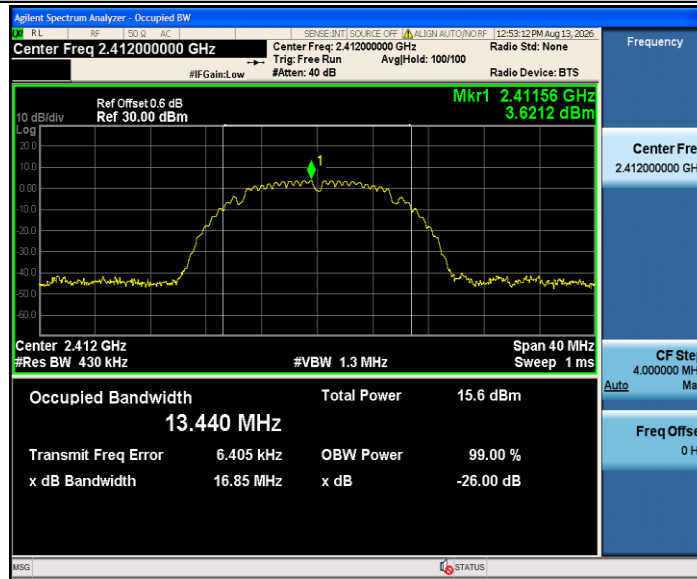
## Appendix B: Occupied Channel Bandwidth

### Test Result

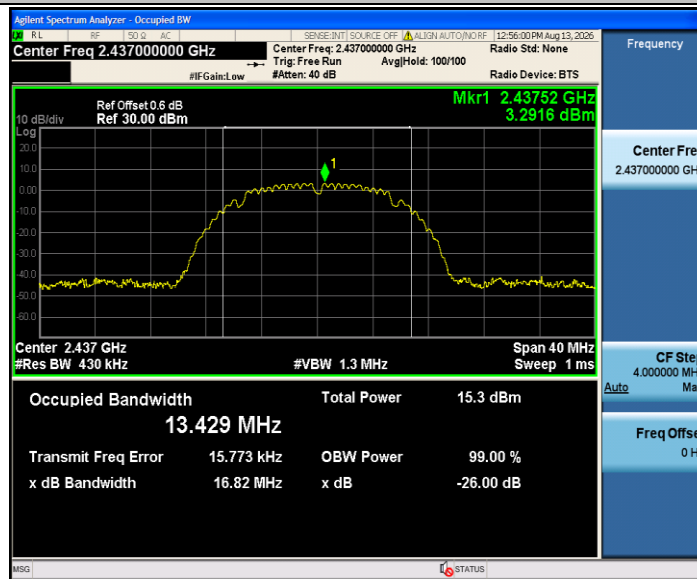
| TestMode   | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B        | Ant1    | 2412                   | 13.440    | 2405.2864 | 2418.7264 | ---        | ---     |
|            |         | 2437                   | 13.429    | 2430.3013 | 2443.7303 | ---        | ---     |
|            |         | 2462                   | 13.423    | 2455.3146 | 2468.7376 | ---        | ---     |
| 11G        | Ant1    | 2412                   | 16.772    | 2403.6366 | 2420.4086 | ---        | ---     |
|            |         | 2437                   | 16.865    | 2428.6264 | 2445.4914 | ---        | ---     |
|            |         | 2462                   | 16.882    | 2453.5779 | 2470.4599 | ---        | ---     |
| 11N20SISO  | Ant1    | 2412                   | 17.862    | 2403.0746 | 2420.9366 | ---        | ---     |
|            |         | 2437                   | 17.866    | 2428.0691 | 2445.9351 | ---        | ---     |
|            |         | 2462                   | 17.870    | 2453.0793 | 2470.9493 | ---        | ---     |
| 11N40SISO  | Ant1    | 2422                   | 36.030    | 2404.1653 | 2440.1953 | ---        | ---     |
|            |         | 2437                   | 36.079    | 2419.1372 | 2455.2162 | ---        | ---     |
|            |         | 2452                   | 36.018    | 2434.1244 | 2470.1424 | ---        | ---     |
| 11AX20SISO | Ant1    | 2412                   | 18.920    | 2402.5737 | 2421.4937 | ---        | ---     |
|            |         | 2437                   | 18.907    | 2427.5816 | 2446.4886 | ---        | ---     |
|            |         | 2462                   | 18.912    | 2452.5724 | 2471.4844 | ---        | ---     |
| 11AX40SISO | Ant1    | 2422                   | 37.568    | 2403.4180 | 2440.9860 | ---        | ---     |
|            |         | 2437                   | 37.548    | 2418.4279 | 2455.9759 | ---        | ---     |
|            |         | 2452                   | 37.550    | 2433.4051 | 2470.9551 | ---        | ---     |

## Test Graphs

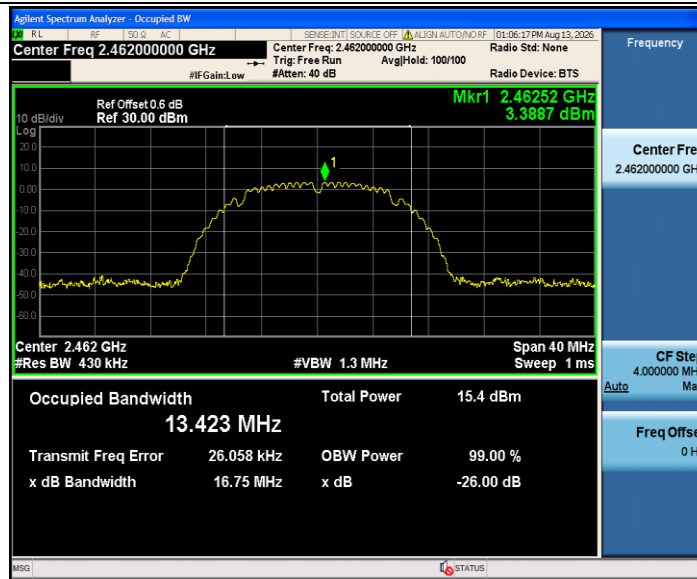
11B\_Ant1\_2412



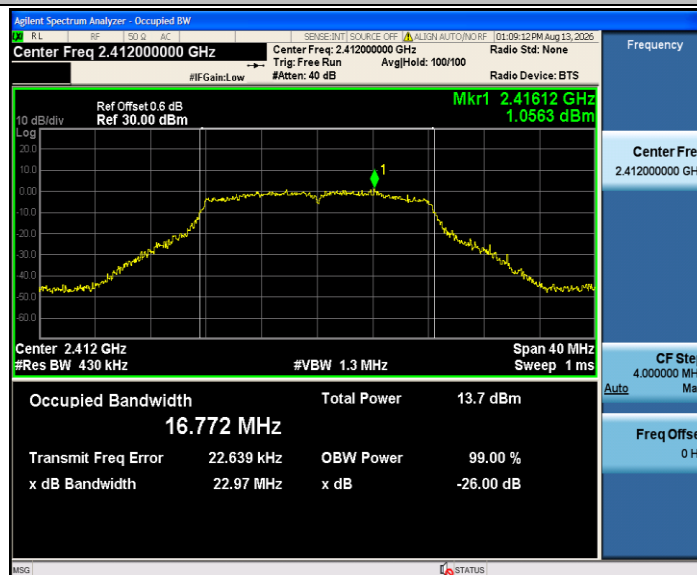
11B\_Ant1\_2437



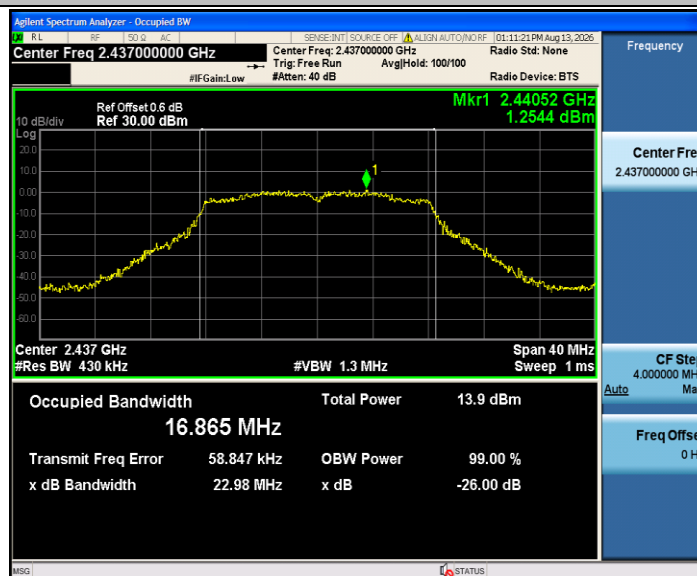
11B\_Ant1\_2462



11G\_Ant1\_2412



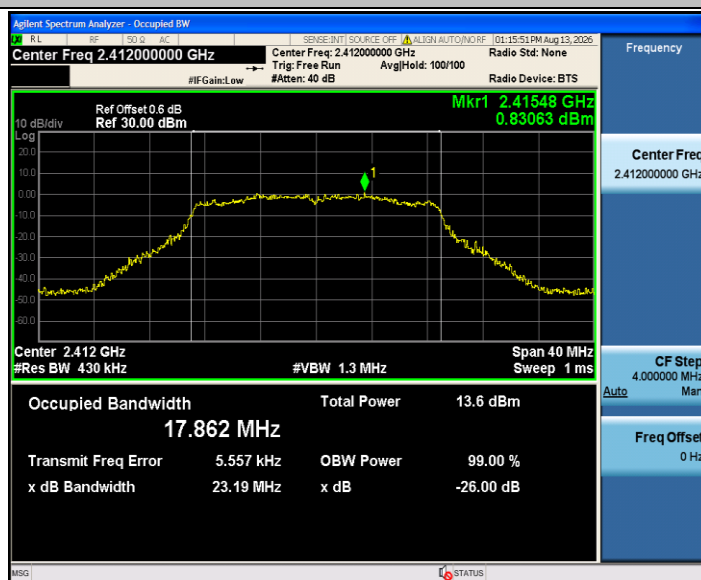
11G\_Ant1\_2437



# 11G\_Ant1\_2462



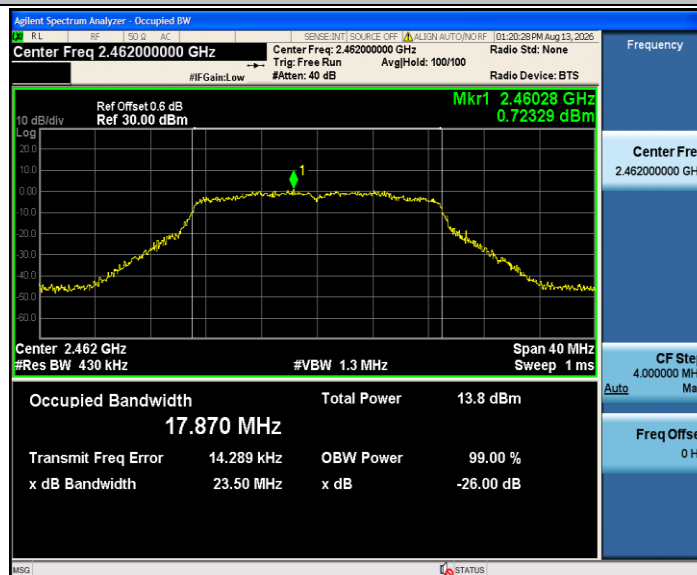
# 11N20SISO\_Ant1\_2412



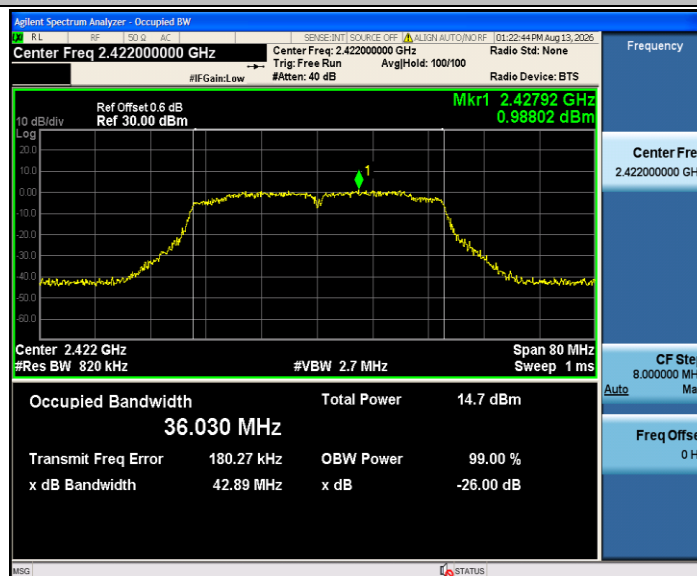
# 11N20SISO\_Ant1\_2437



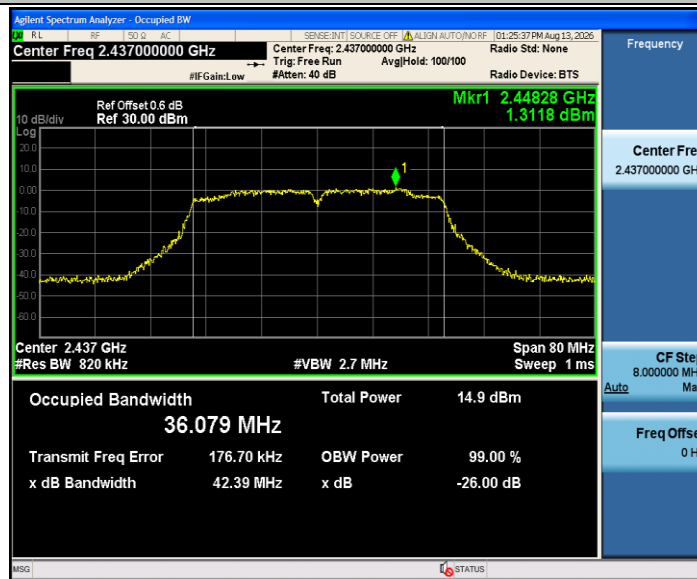
11N20SISO\_Ant1\_2462



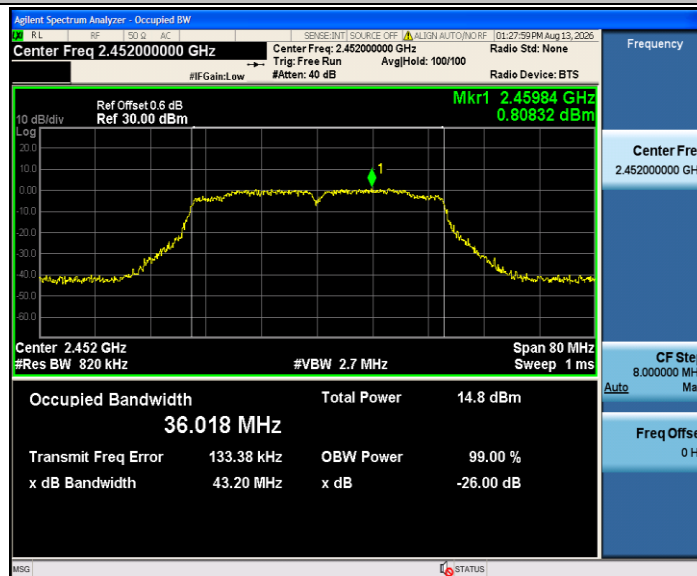
11N40SISO\_Ant1\_2422



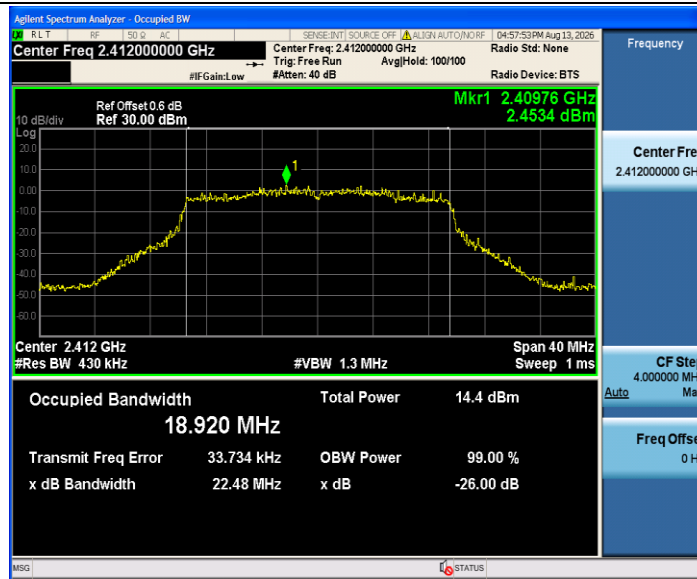
# 11N40SISO\_Ant1\_2437



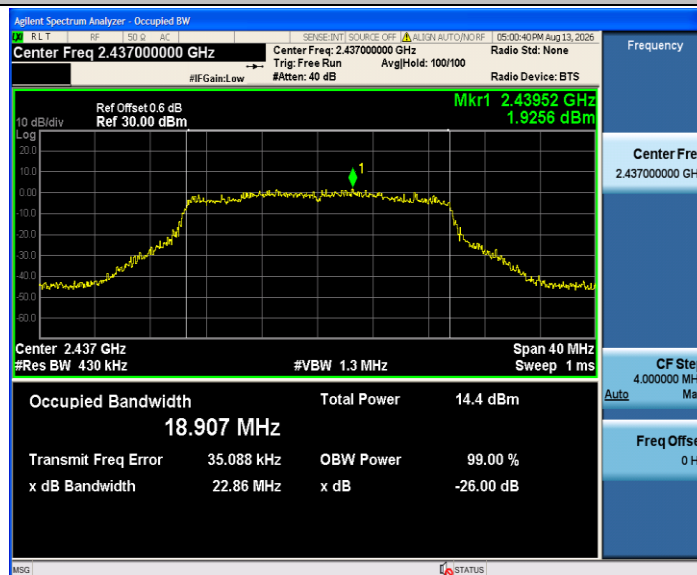
# 11N40SISO\_Ant1\_2452



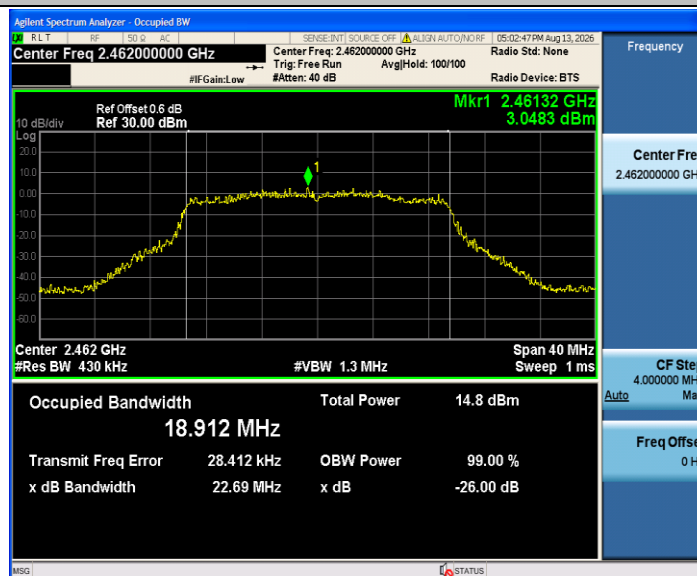
# 11AX20SISO\_Ant1\_2412



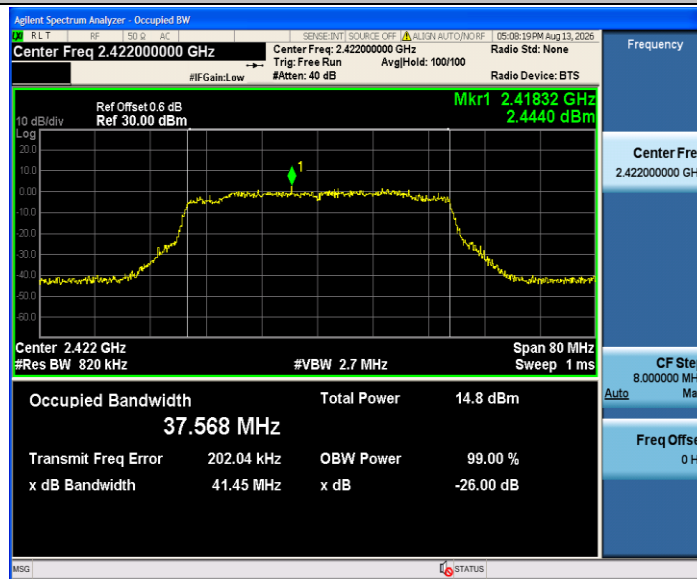
11AX20SISO\_Ant1\_2437



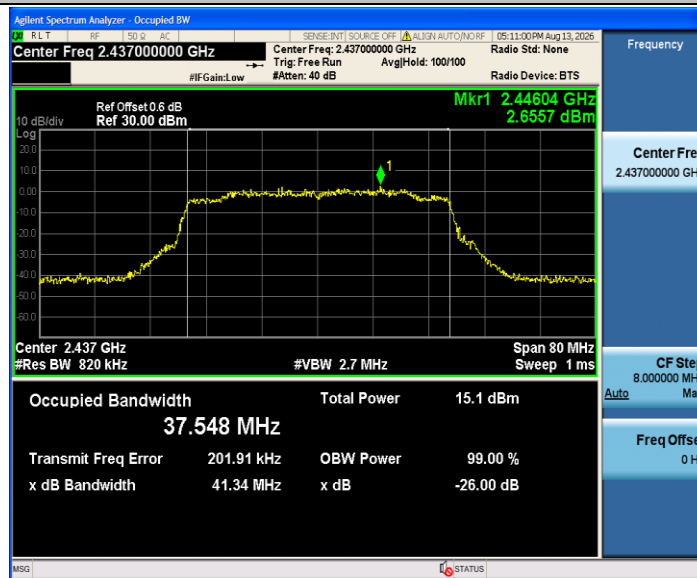
11AX20SISO\_Ant1\_2462



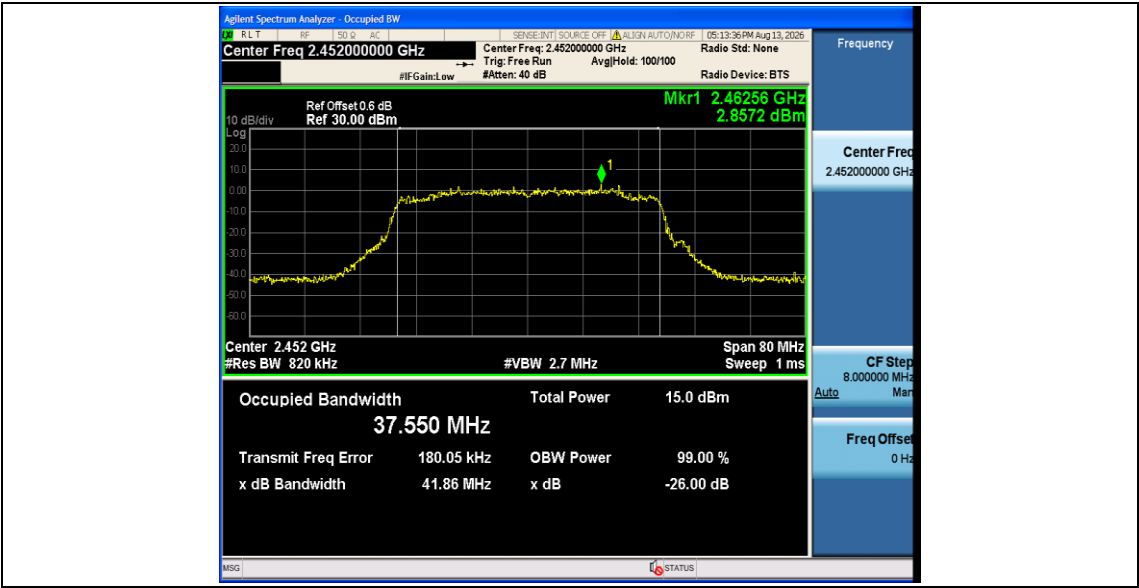
### 11AX40SISO\_Ant1\_2422



### 11AX40SISO\_Ant1\_2437



### 11AX40SISO\_Ant1\_2452



## Appendix C: Maximum conducted output power

### Test Result

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|--------------|-------------|---------|
| 11B        | Ant1    | 2412           | 15.28        | ≤30.00      | PASS    |
|            |         | 2437           | 14.85        | ≤30.00      | PASS    |
|            |         | 2462           | 15.05        | ≤30.00      | PASS    |
| 11G        | Ant1    | 2412           | 14.61        | ≤30.00      | PASS    |
|            |         | 2437           | 14.69        | ≤30.00      | PASS    |
|            |         | 2462           | 14.78        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 2412           | 14.51        | ≤30.00      | PASS    |
|            |         | 2437           | 14.64        | ≤30.00      | PASS    |
|            |         | 2462           | 14.92        | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 2422           | 14.90        | ≤30.00      | PASS    |
|            |         | 2437           | 14.78        | ≤30.00      | PASS    |
|            |         | 2452           | 14.90        | ≤30.00      | PASS    |
| 11AX20SISO | Ant1    | 2412           | 14.76        | ≤30.00      | PASS    |
|            |         | 2437           | 15.08        | ≤30.00      | PASS    |
|            |         | 2462           | 14.96        | ≤30.00      | PASS    |
| 11AX40SISO | Ant1    | 2422           | 14.76        | ≤30.00      | PASS    |
|            |         | 2437           | 15.11        | ≤30.00      | PASS    |
|            |         | 2452           | 15.06        | ≤30.00      | PASS    |

## Appendix D: Maximum power spectral density

### Test Result

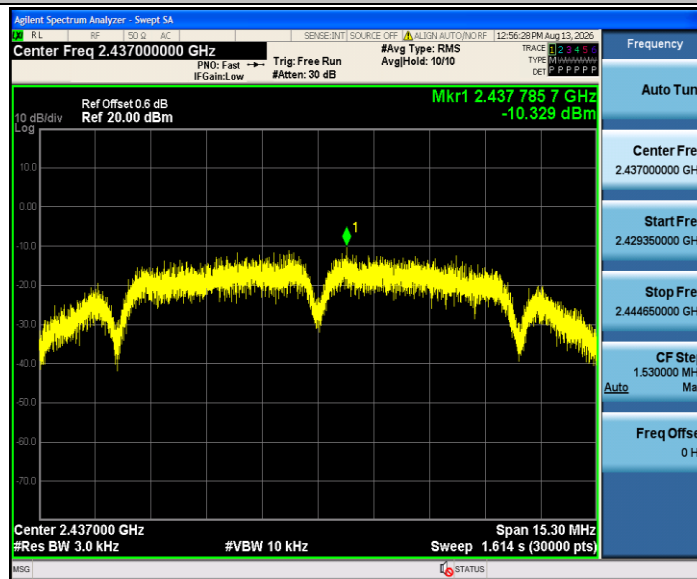
| TestMode   | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|----------------|----------------------|-----------------|---------|
| 11B        | Ant1    | 2412           | -11.03               | ≤8.00           | PASS    |
|            |         | 2437           | -10.33               | ≤8.00           | PASS    |
|            |         | 2462           | -11.23               | ≤8.00           | PASS    |
| 11G        | Ant1    | 2412           | -17.02               | ≤8.00           | PASS    |
|            |         | 2437           | -16.88               | ≤8.00           | PASS    |
|            |         | 2462           | -16.73               | ≤8.00           | PASS    |
| 11N20SISO  | Ant1    | 2412           | -15.02               | ≤8.00           | PASS    |
|            |         | 2437           | -16.91               | ≤8.00           | PASS    |
|            |         | 2462           | -17.10               | ≤8.00           | PASS    |
| 11N40SISO  | Ant1    | 2422           | -19.95               | ≤8.00           | PASS    |
|            |         | 2437           | -18.56               | ≤8.00           | PASS    |
|            |         | 2452           | -19.70               | ≤8.00           | PASS    |
| 11AX20SISO | Ant1    | 2412           | -18.44               | ≤8.00           | PASS    |
|            |         | 2437           | -17.97               | ≤8.00           | PASS    |
|            |         | 2462           | -18.74               | ≤8.00           | PASS    |
| 11AX40SISO | Ant1    | 2422           | -20.40               | ≤8.00           | PASS    |
|            |         | 2437           | -20.13               | ≤8.00           | PASS    |
|            |         | 2452           | -20.95               | ≤8.00           | PASS    |

## Test Graphs

11B\_Ant1\_2412



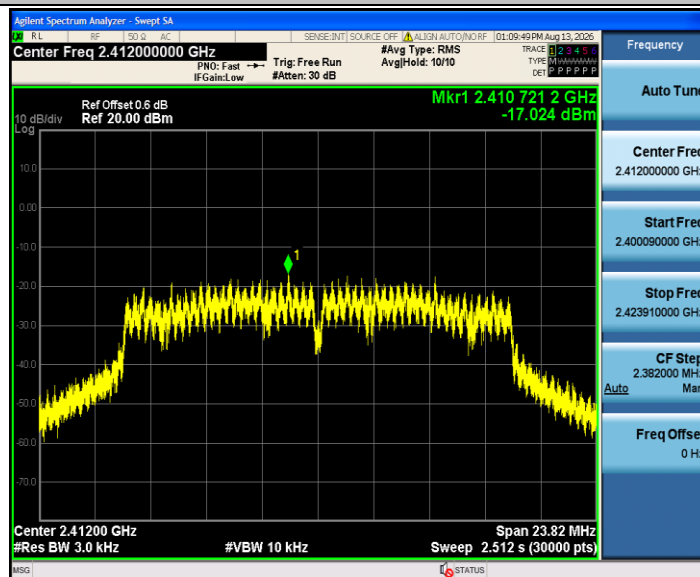
11B\_Ant1\_2437



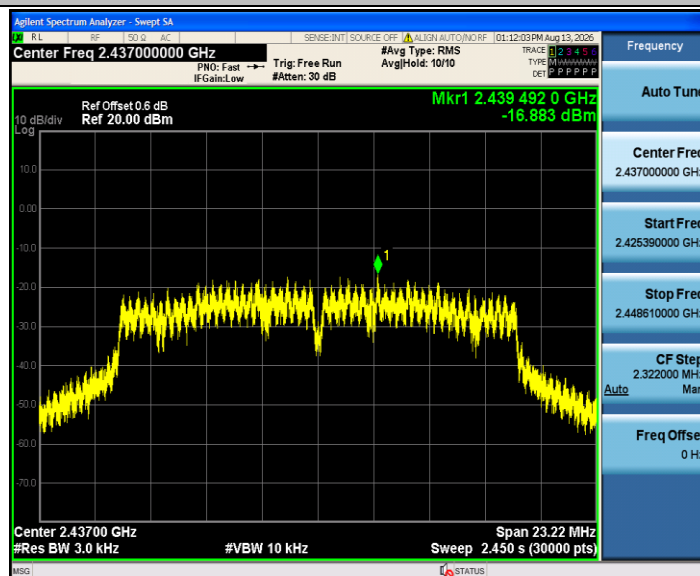
11B\_Ant1\_2462



11G\_Ant1\_2412



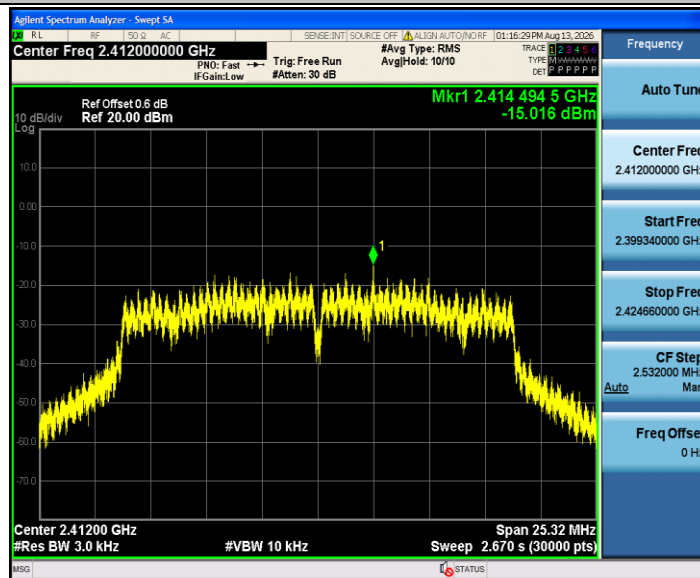
11G\_Ant1\_2437



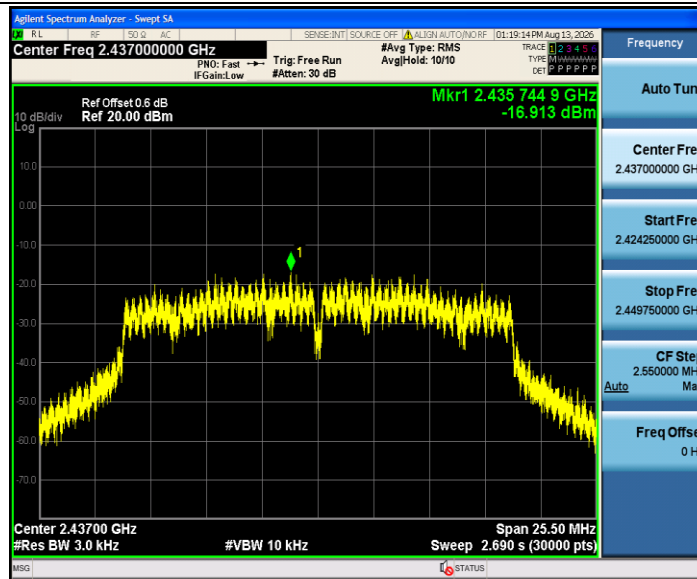
# 11G\_Ant1\_2462



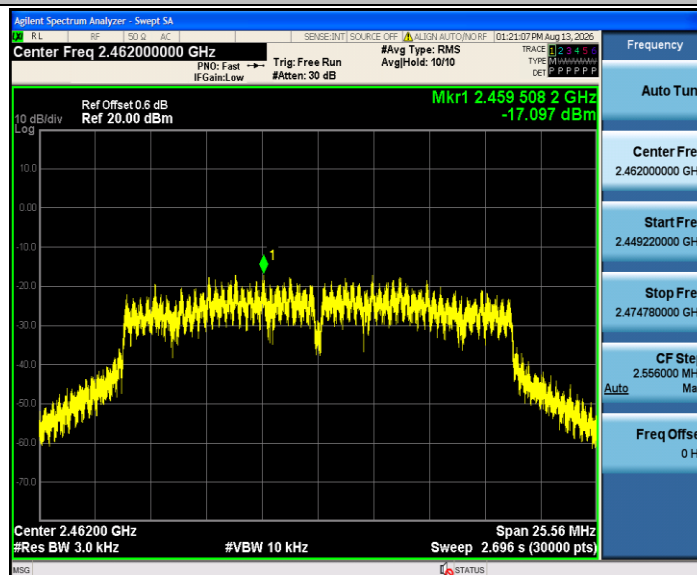
# 11N20SISO\_Ant1\_2412



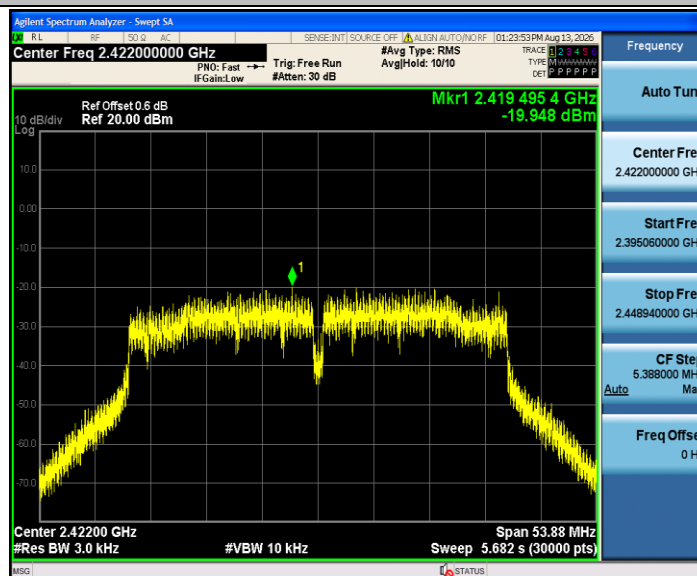
# 11N20SISO\_Ant1\_2437



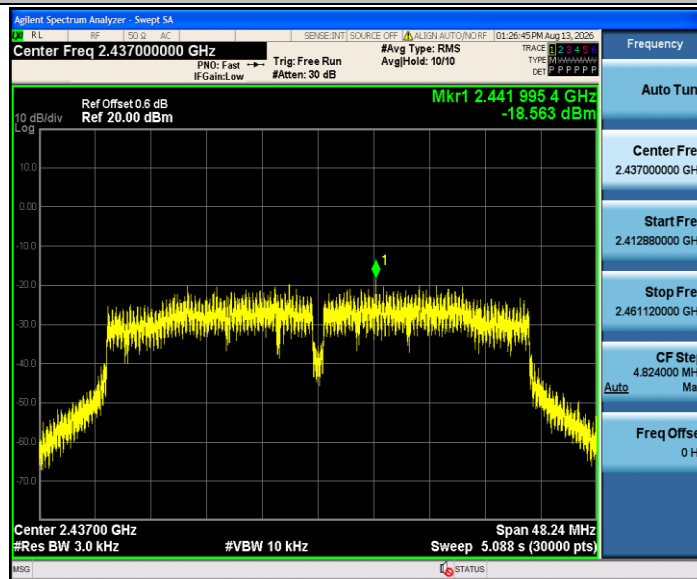
11N20SISO\_Ant1\_2462



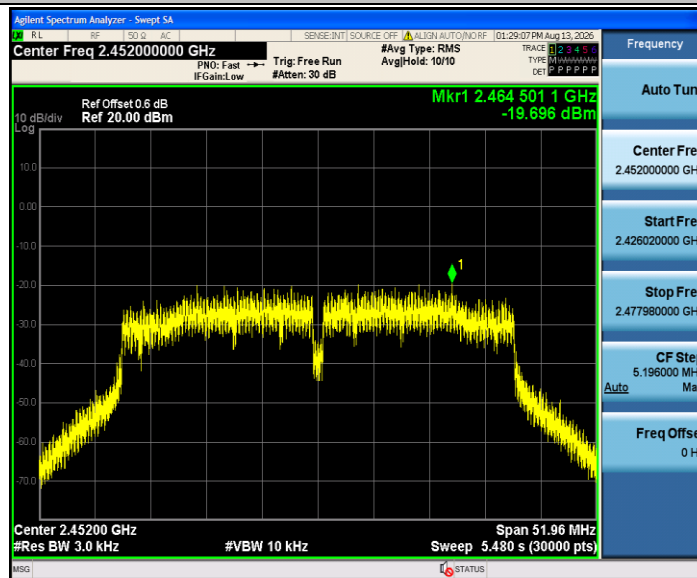
11N40SISO\_Ant1\_2422



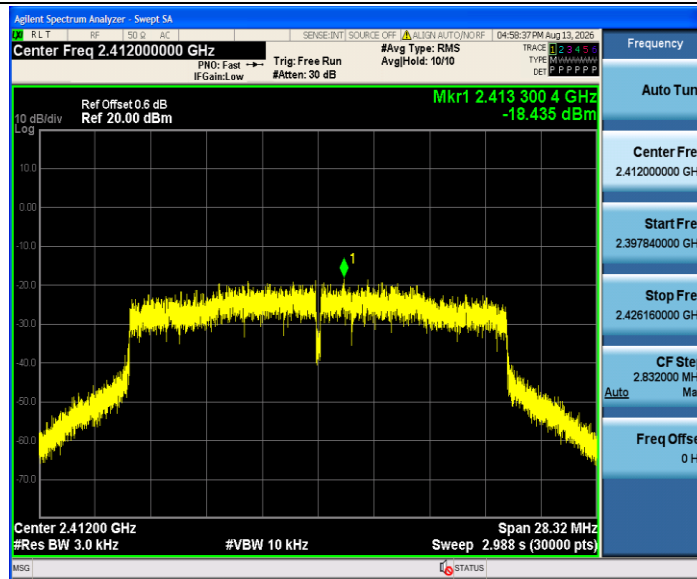
# 11N40SISO\_Ant1\_2437



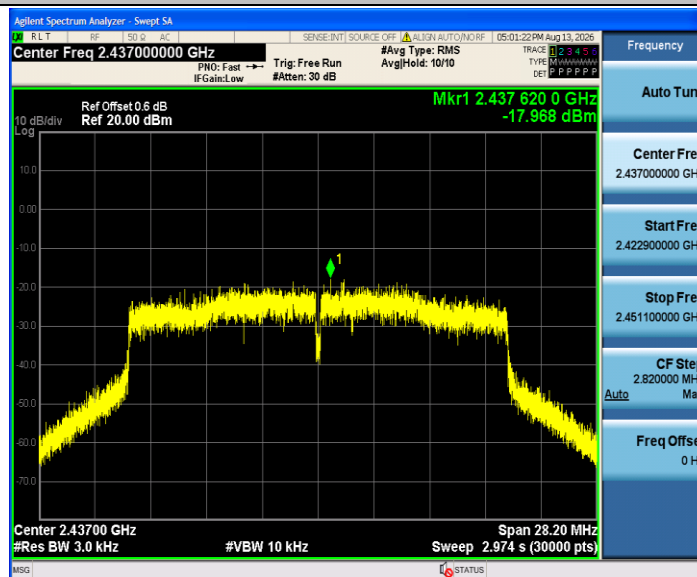
# 11N40SISO\_Ant1\_2452



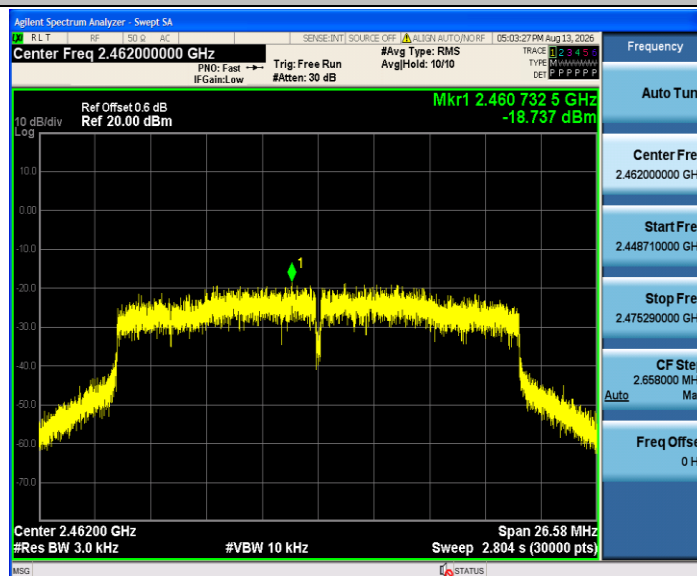
# 11AX20SISO\_Ant1\_2412



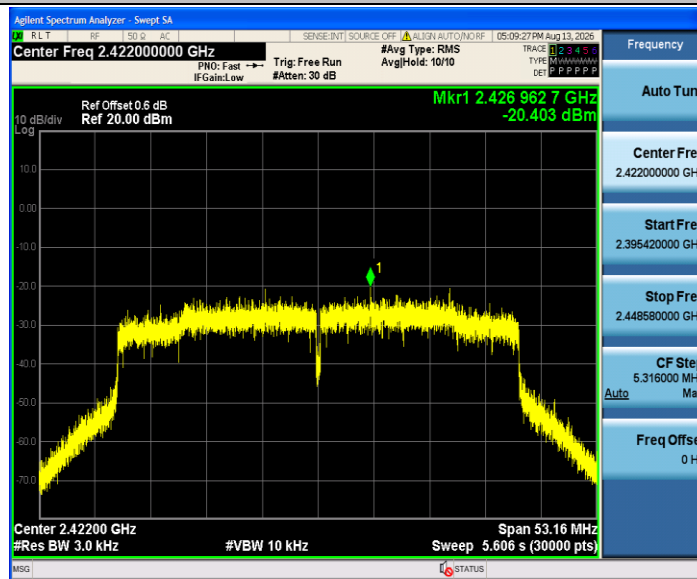
11AX20SISO\_Ant1\_2437



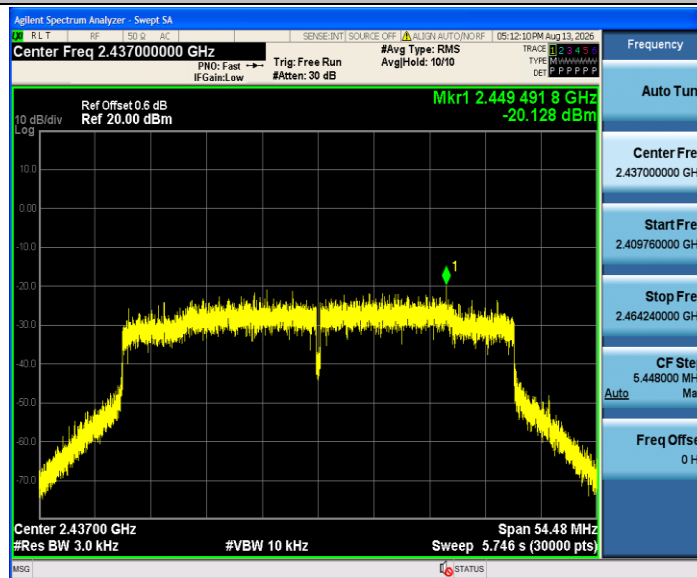
11AX20SISO\_Ant1\_2462



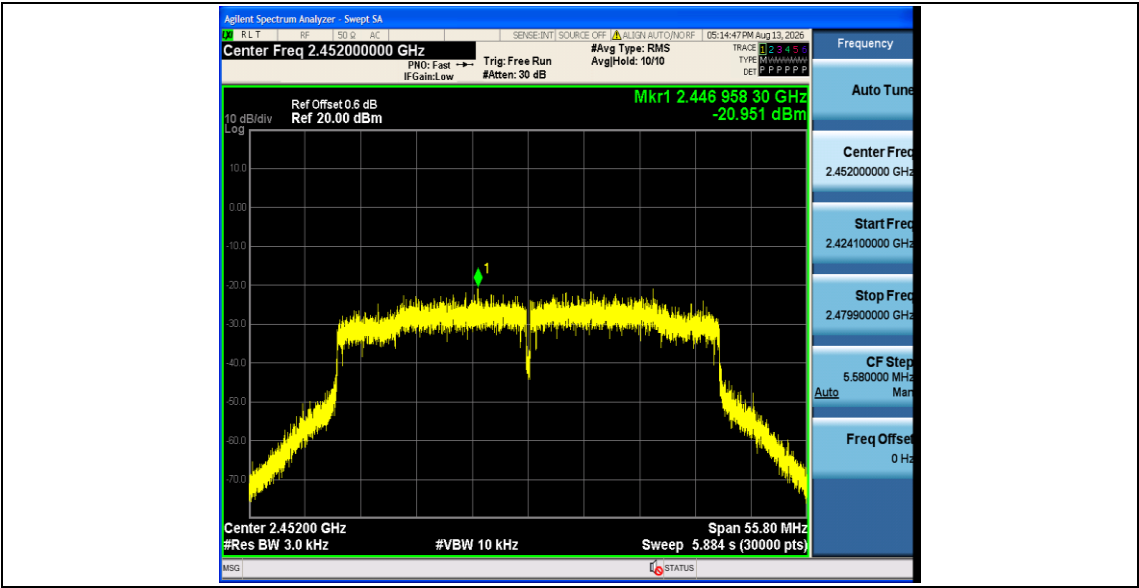
# 11AX40SISO\_Ant1\_2422



# 11AX40SISO\_Ant1\_2437



# 11AX40SISO\_Ant1\_2452



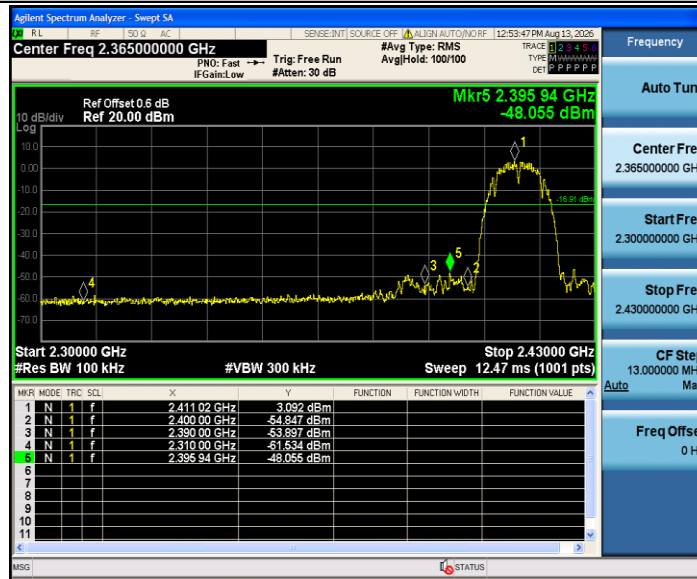
## Appendix E: Band edge measurements

### Test Result

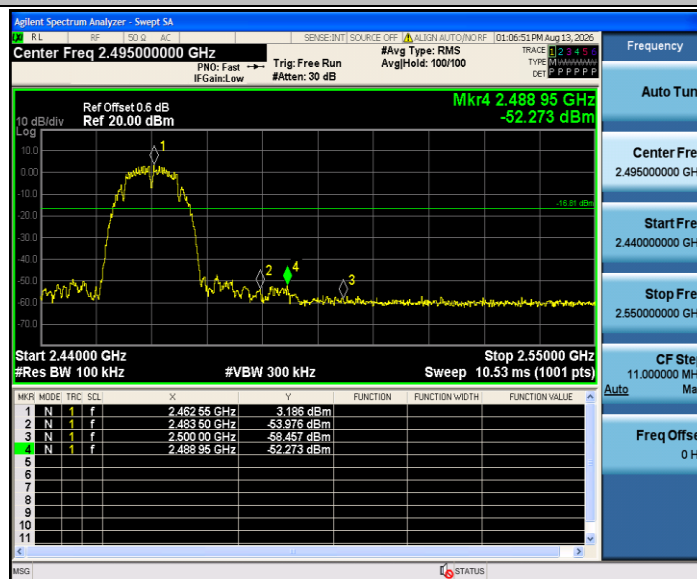
| TestMode   | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|---------|----------------|---------------|-------------|------------|---------|
| 11B        | Ant1    | Low     | 2412           | 3.09          | -48.06      | ≤-16.91    | PASS    |
|            |         | High    | 2462           | 3.19          | -52.27      | ≤-16.81    | PASS    |
| 11G        | Ant1    | Low     | 2412           | -1.82         | -34.03      | ≤-21.82    | PASS    |
|            |         | High    | 2462           | -1.52         | -57.72      | ≤-21.52    | PASS    |
| 11N20SISO  | Ant1    | Low     | 2412           | -2.11         | -32.6       | ≤-22.11    | PASS    |
|            |         | High    | 2462           | -1.44         | -57.68      | ≤-21.44    | PASS    |
| 11N40SISO  | Ant1    | Low     | 2422           | -5.40         | -34.1       | ≤-25.4     | PASS    |
|            |         | High    | 2452           | -4.87         | -54.73      | ≤-24.87    | PASS    |
| 11AX20SISO | Ant1    | Low     | 2412           | -2.74         | -31.85      | ≤-22.74    | PASS    |
|            |         | High    | 2462           | -1.98         | -57.61      | ≤-21.98    | PASS    |
| 11AX40SISO | Ant1    | Low     | 2422           | -5.52         | -36.17      | ≤-25.52    | PASS    |
|            |         | High    | 2452           | -5.49         | -54.47      | ≤-25.49    | PASS    |

## Test Graphs

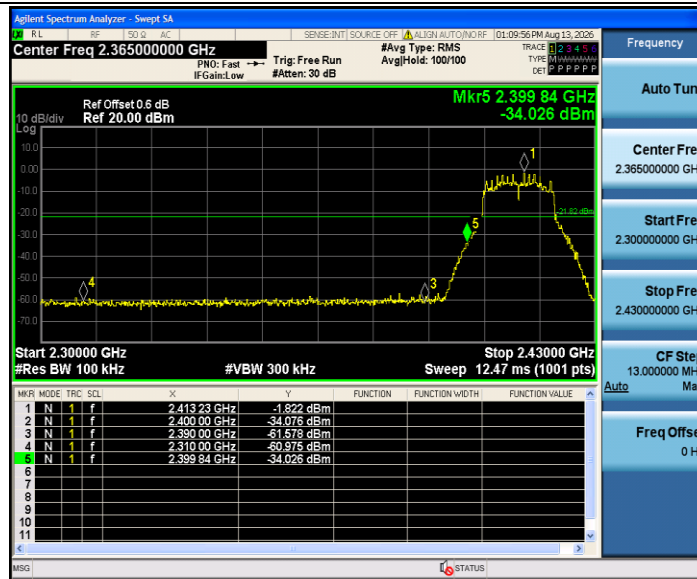
11B\_Ant1\_Low\_2412



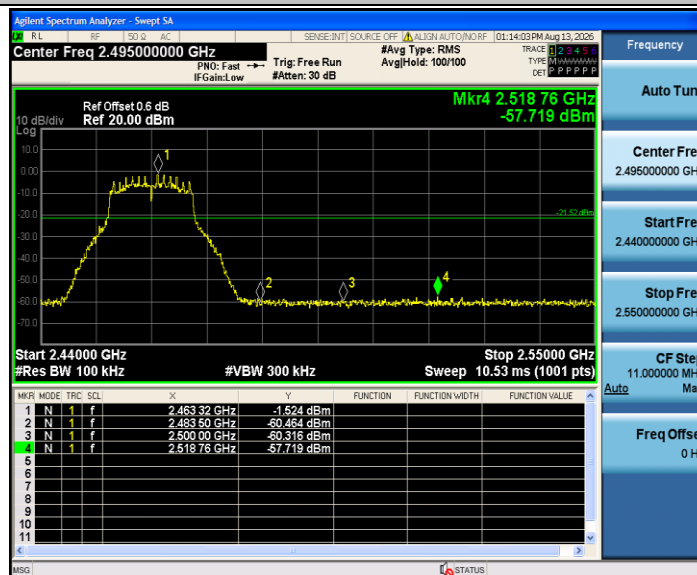
11B\_Ant1\_High\_2462



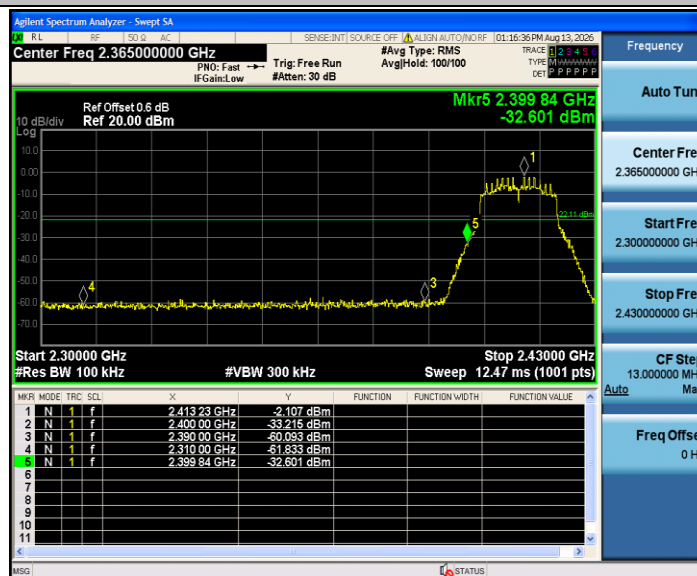
11G\_Ant1\_Low\_2412



11G\_Ant1\_High\_2462



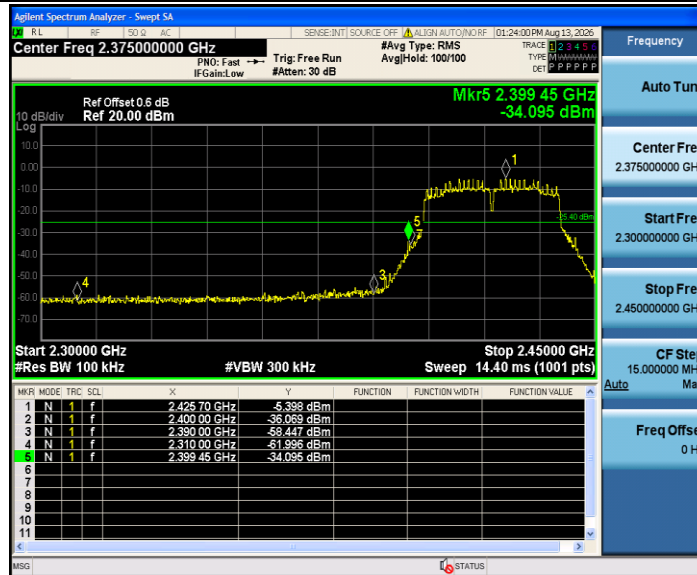
11N20SISO\_Ant1\_Low\_2412



# 11N20SISO\_Ant1\_High\_2462



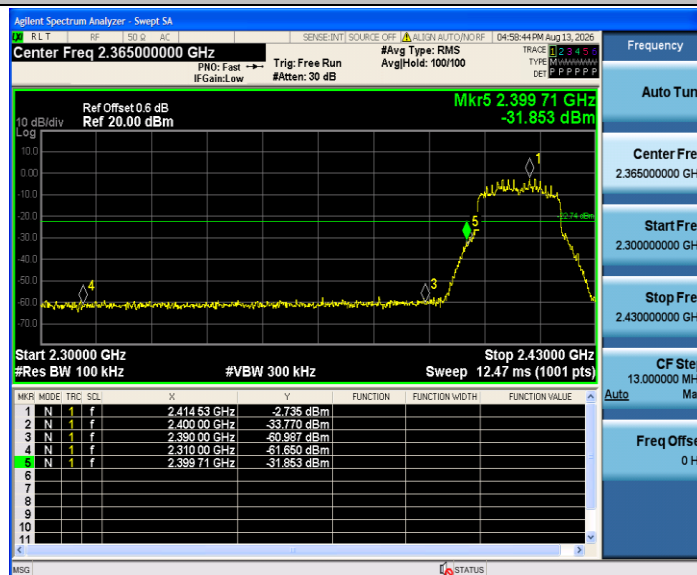
# 11N40SISO\_Ant1\_Low\_2422



# 11N40SISO\_Ant1\_High\_2452



11AX20SISO\_Ant1\_Low\_2412



11AX20SISO\_Ant1\_High\_2462

