

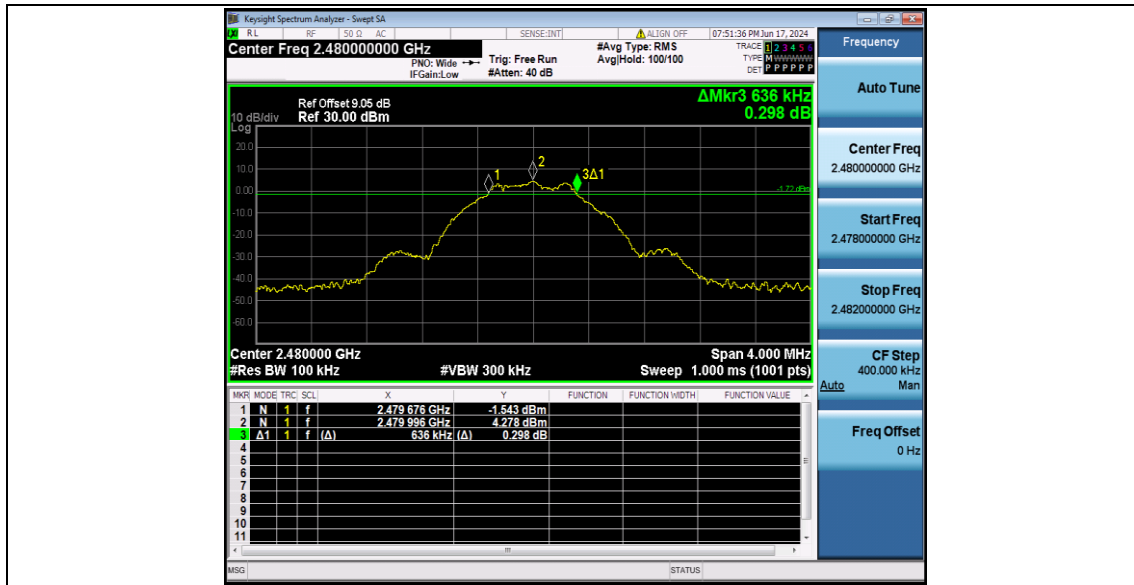
|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24070301902</u>               |                                          |
| <b>Ambient Condition:</b> <u>24</u> °C, <u>51</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2024.7.8</u>                     | <b>Test Engineer:</b> <u>Lushan Kong</u> |

## Appendix B.1: DTS Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402      | 0.632           | 2401.672 | 2402.304 | 0.5        | PASS    |
|          |         | 2440      | 0.612           | 2439.684 | 2440.296 | 0.5        | PASS    |
|          |         | 2480      | 0.636           | 2479.676 | 2480.312 | 0.5        | PASS    |



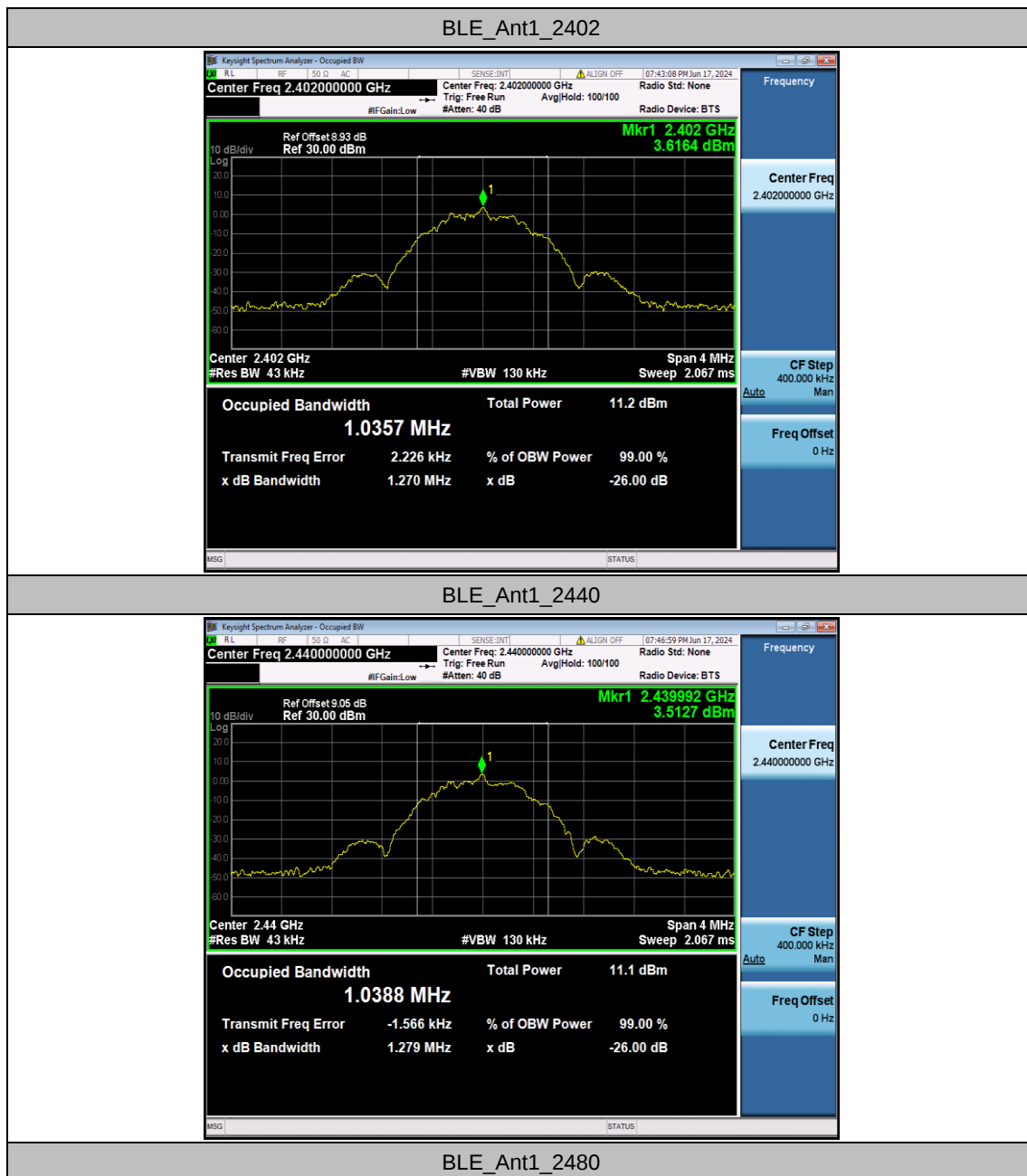


## Appendix B.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|-----------|-----------|-----------|-----------|
| BLE      | Ant1    | 2402      | 1.0357    | 2401.4844 | 2402.5201 |
|          |         | 2440      | 1.0388    | 2439.4790 | 2440.5178 |
|          |         | 2480      | 1.0478    | 2479.4770 | 2480.5248 |

## Test Graphs





## Appendix B.3: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|-----------|---------------------------|----------------------|---------|
| BLE      | Ant1    | 2402      | 4.59                      | ≤30                  | PASS    |
|          |         | 2440      | 4.52                      | ≤30                  | PASS    |
|          |         | 2480      | 4.45                      | ≤30                  | PASS    |

## Appendix B.4: Maximum power spectral density

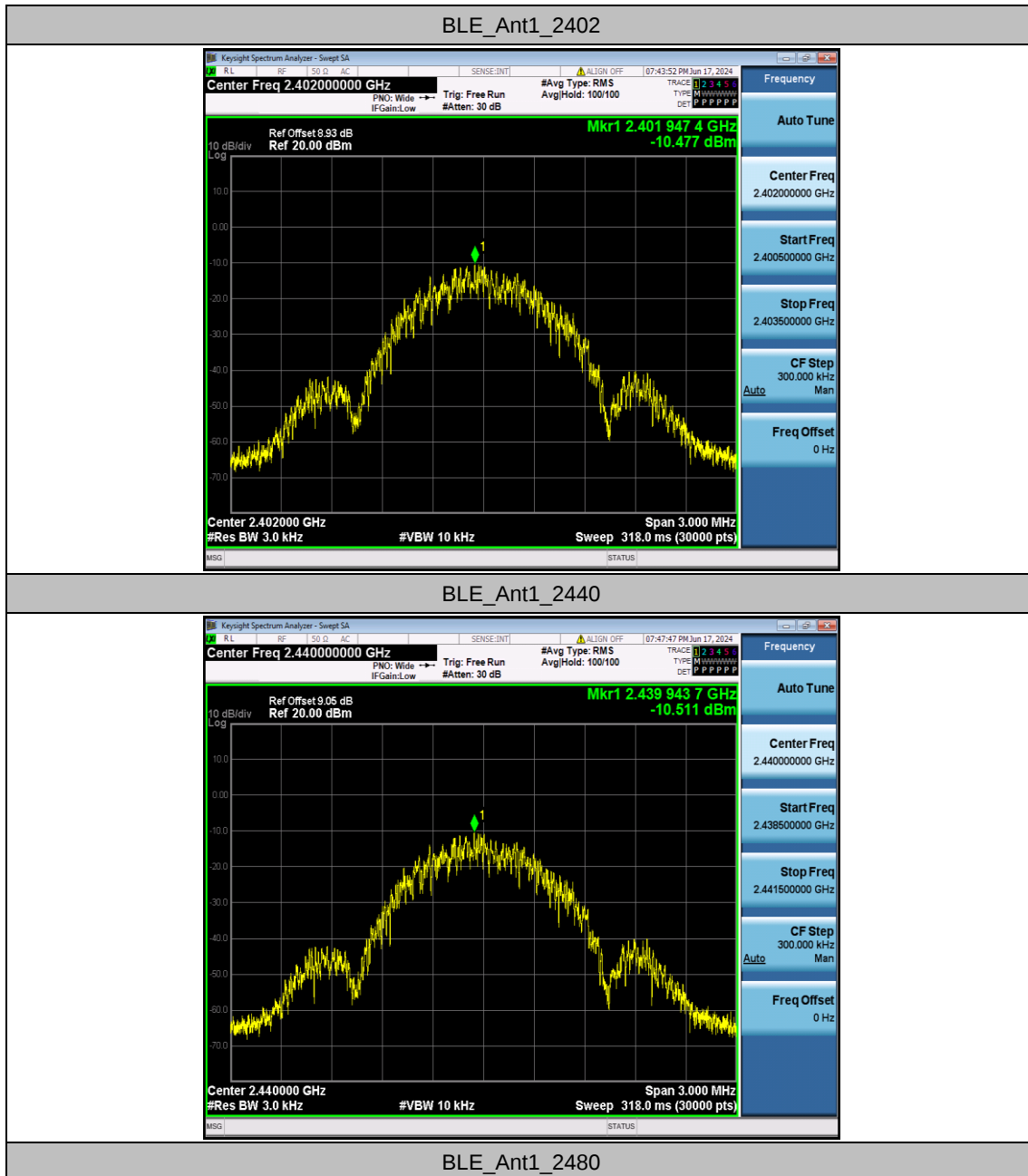
### Test Result

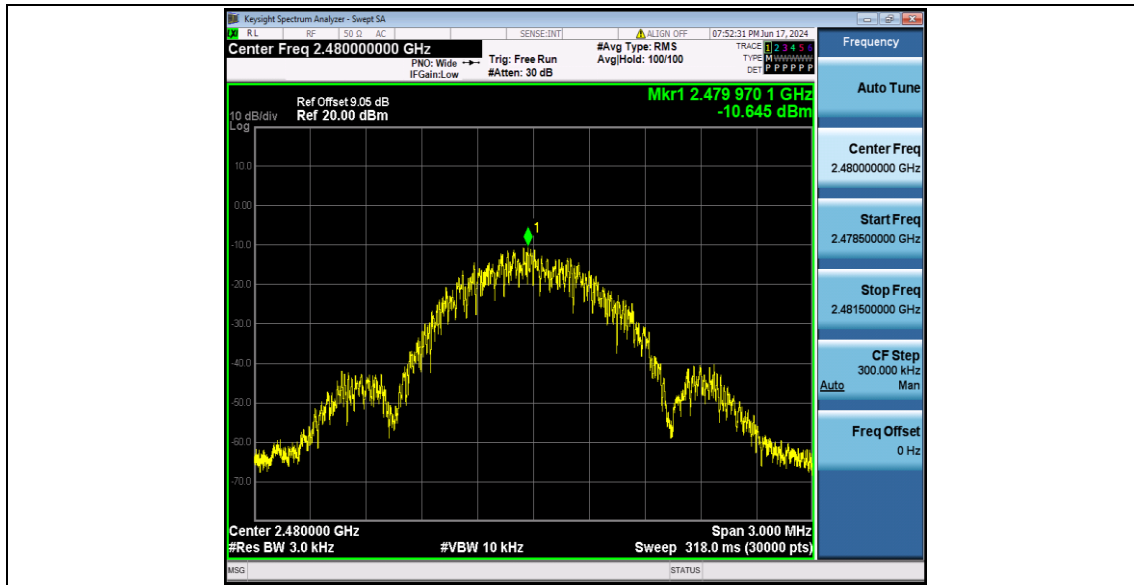
| TestMode | Antenna | Freq(MHz) | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|------------------|-----------------|---------|
| BLE      | Ant1    | 2402      | -10.48           | ≤8.00           | PASS    |
|          |         | 2440      | -10.51           | ≤8.00           | PASS    |
|          |         | 2480      | -10.65           | ≤8.00           | PASS    |

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

## Test Graphs



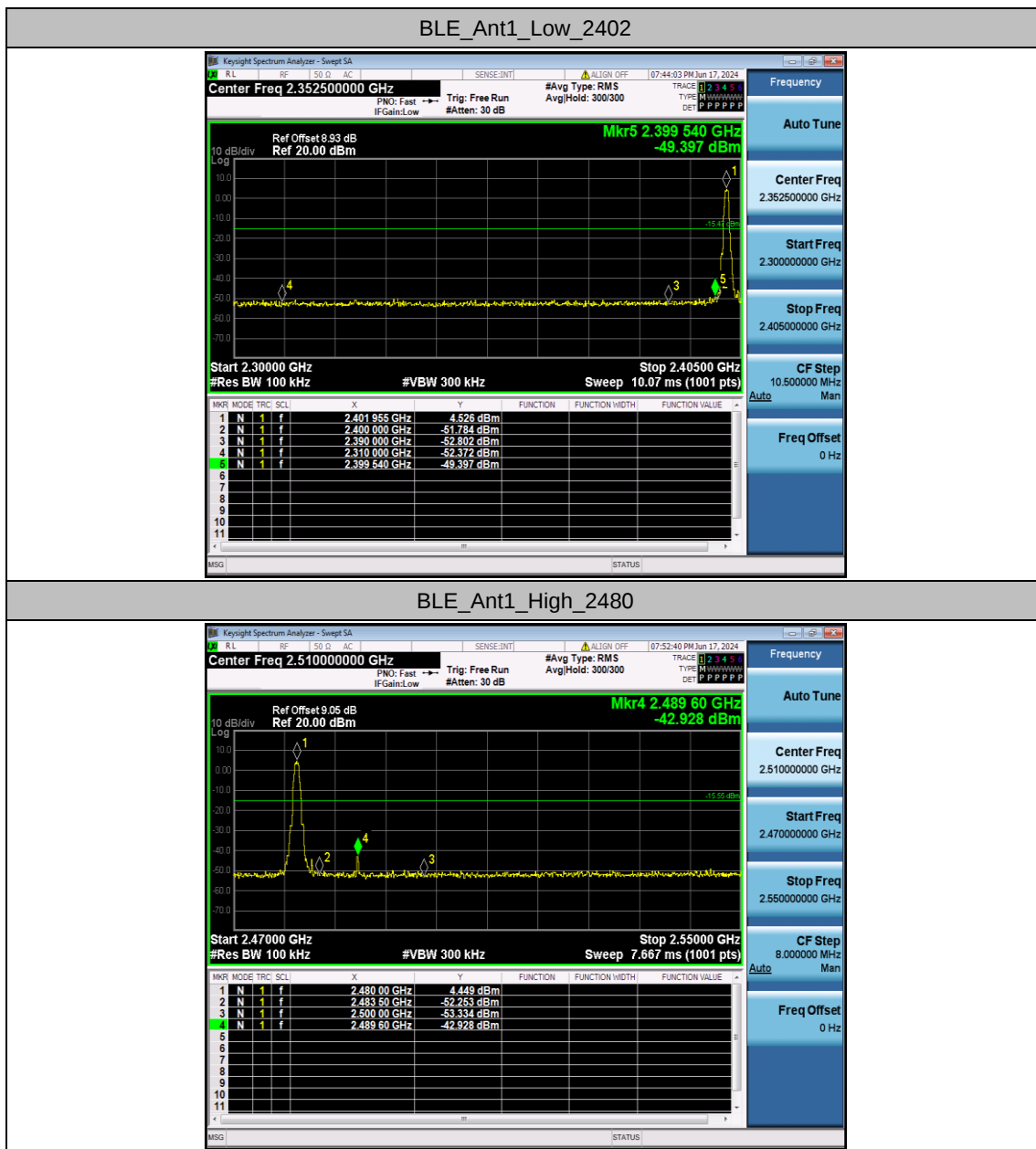


## Appendix B.5: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|---------------|-------------|------------|---------|
| BLE      | Ant1    | Low    | 2402      | 4.53          | -49.4       | ≤-15.47    | PASS    |
|          |         | High   | 2480      | 4.45          | -42.93      | ≤-15.55    | PASS    |

## Test Graphs

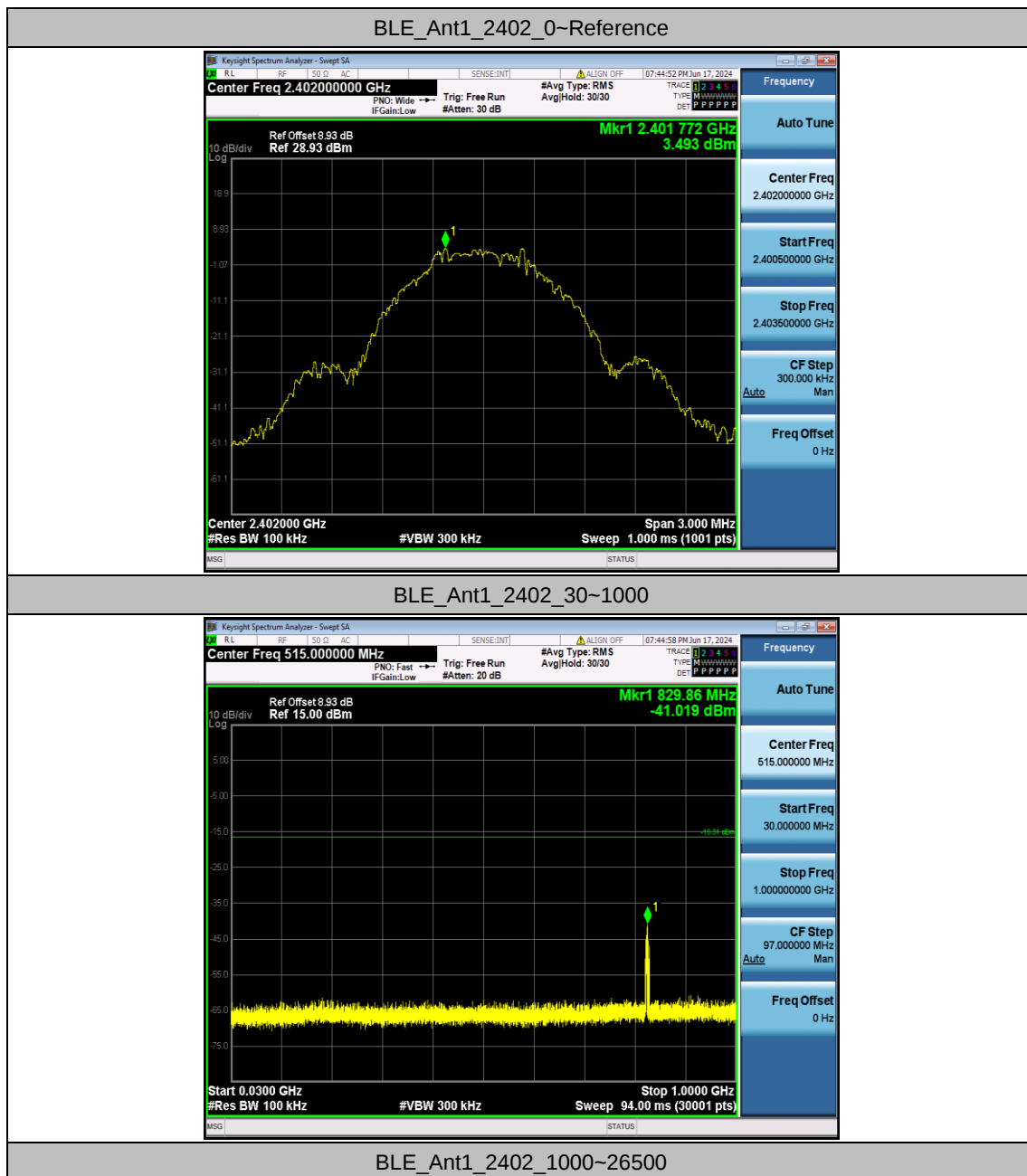


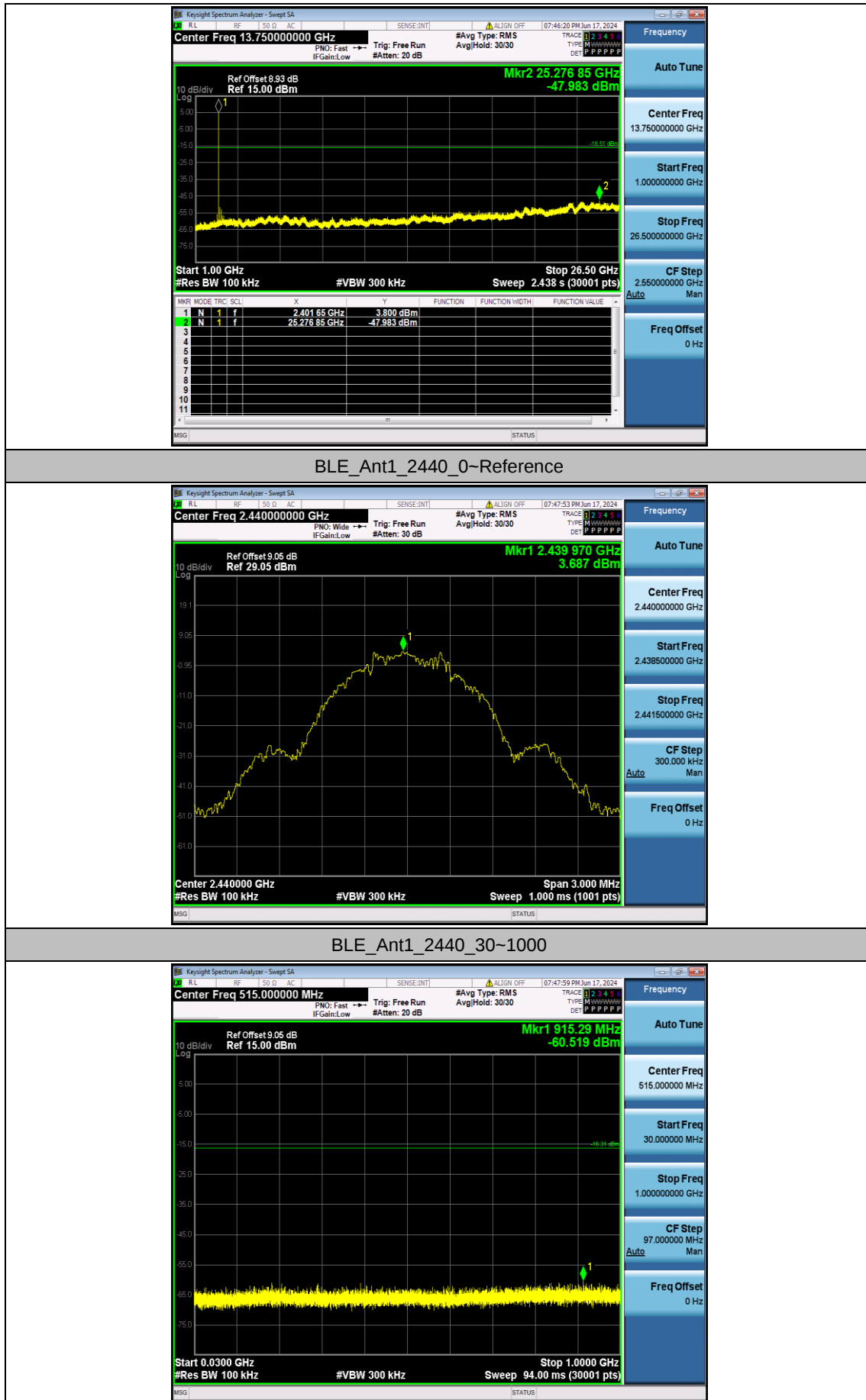
## Appendix B.6: Conducted Spurious Emission

### Test Result

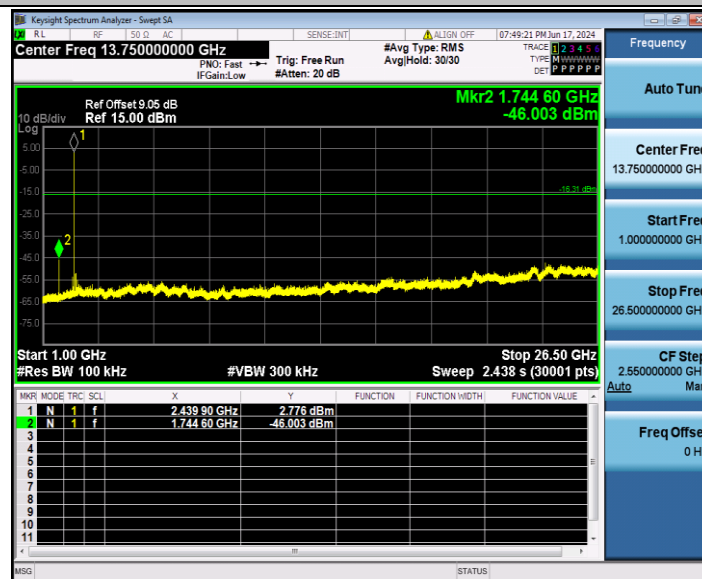
| TestMode | Antenna | Freq(MHz) | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|-----------|--------------------|-------------------|-------------|---------------|---------|
| BLE      | Ant1    | 2402      | Reference          | 3.49              | 3.49        | ---           | PASS    |
|          |         |           | 30~1000            | 3.49              | -41.02      | $\leq -16.51$ | PASS    |
|          |         |           | 1000~26500         | 3.49              | -47.98      | $\leq -16.51$ | PASS    |
|          |         | 2440      | Reference          | 3.69              | 3.69        | ---           | PASS    |
|          |         |           | 30~1000            | 3.69              | -60.52      | $\leq -16.31$ | PASS    |
|          |         |           | 1000~26500         | 3.69              | -46         | $\leq -16.31$ | PASS    |
|          |         | 2480      | Reference          | 3.32              | 3.32        | ---           | PASS    |
|          |         |           | 30~1000            | 3.32              | -60.85      | $\leq -16.68$ | PASS    |
|          |         |           | 1000~26500         | 3.32              | -47.43      | $\leq -16.68$ | PASS    |

## Test Graphs





## BLE\_Ant1\_2440\_1000~26500



## BLE\_Ant1\_2480\_0~Reference



## BLE\_Ant1\_2480\_30~1000

