

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24081600402</u>               |                                          |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>51</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2024.8.21</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           | 2401.668 | 2402.300 | 0.5        | PASS    |
|          |         | 2440      | 0.632           | 2439.676 | 2440.308 | 0.5        | PASS    |
|          |         | 2480      | 0.640           | 2479.660 | 2480.300 | 0.5        | PASS    |

## Test Graphs

BLE\_Ant1\_2402



BLE\_Ant1\_2440



BLE\_Ant1\_2480

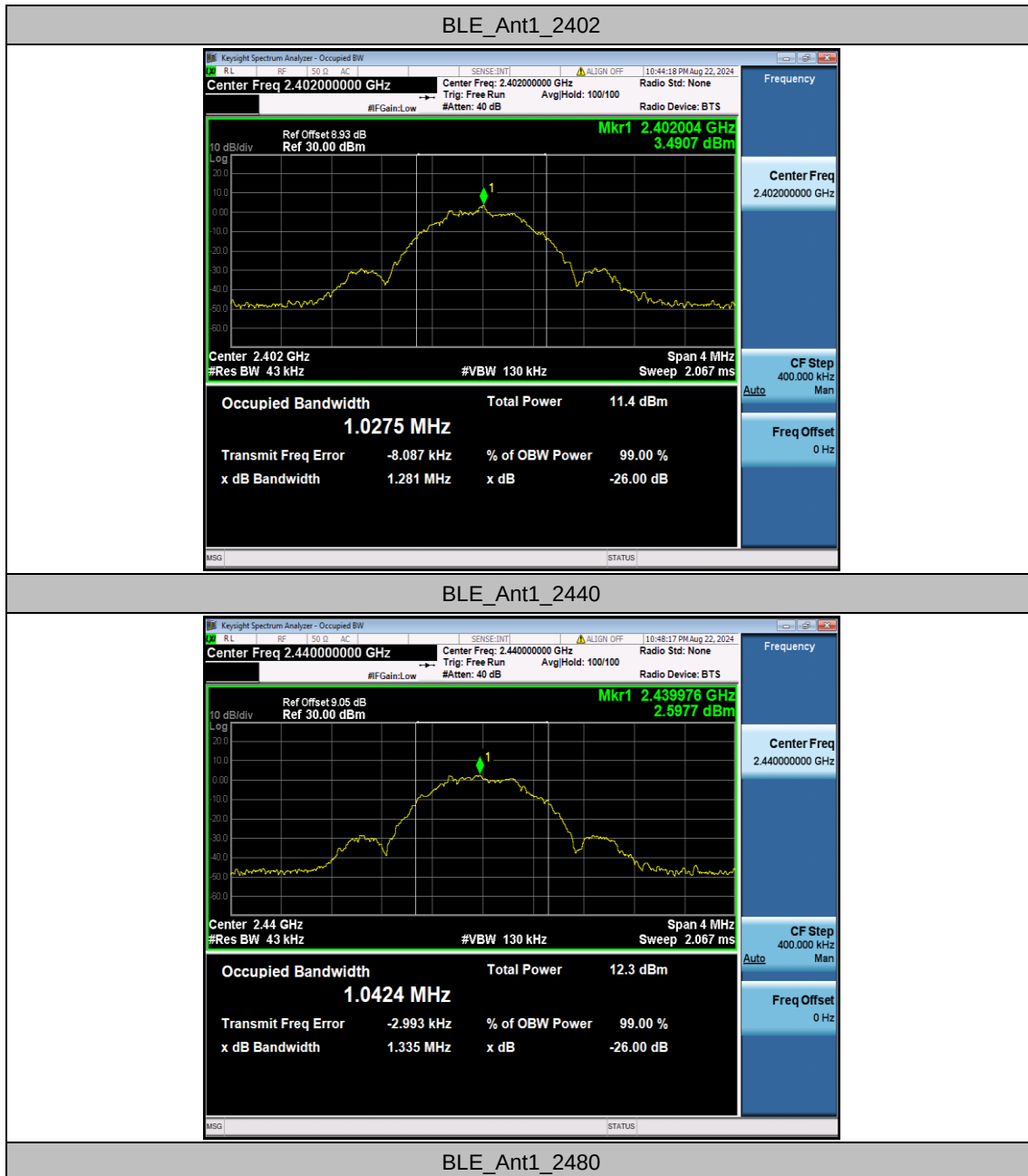


## Appendix B.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| BLE      | Ant1    | 2402      | 1.0275    | 2401.4782 | 2402.5057 | ---        | ---     |
|          |         | 2440      | 1.0424    | 2439.4758 | 2440.5182 | ---        | ---     |
|          |         | 2480      | 1.0282    | 2479.4825 | 2480.5107 | ---        | ---     |

## 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      | 4.81                      | ≤30                  | PASS    |
|          |         | 2440      | 6.02                      | ≤30                  | PASS    |
|          |         | 2480      | 5.44                      | ≤30                  | PASS    |

## Appendix B.4: Maximum power spectral density

### Test Result

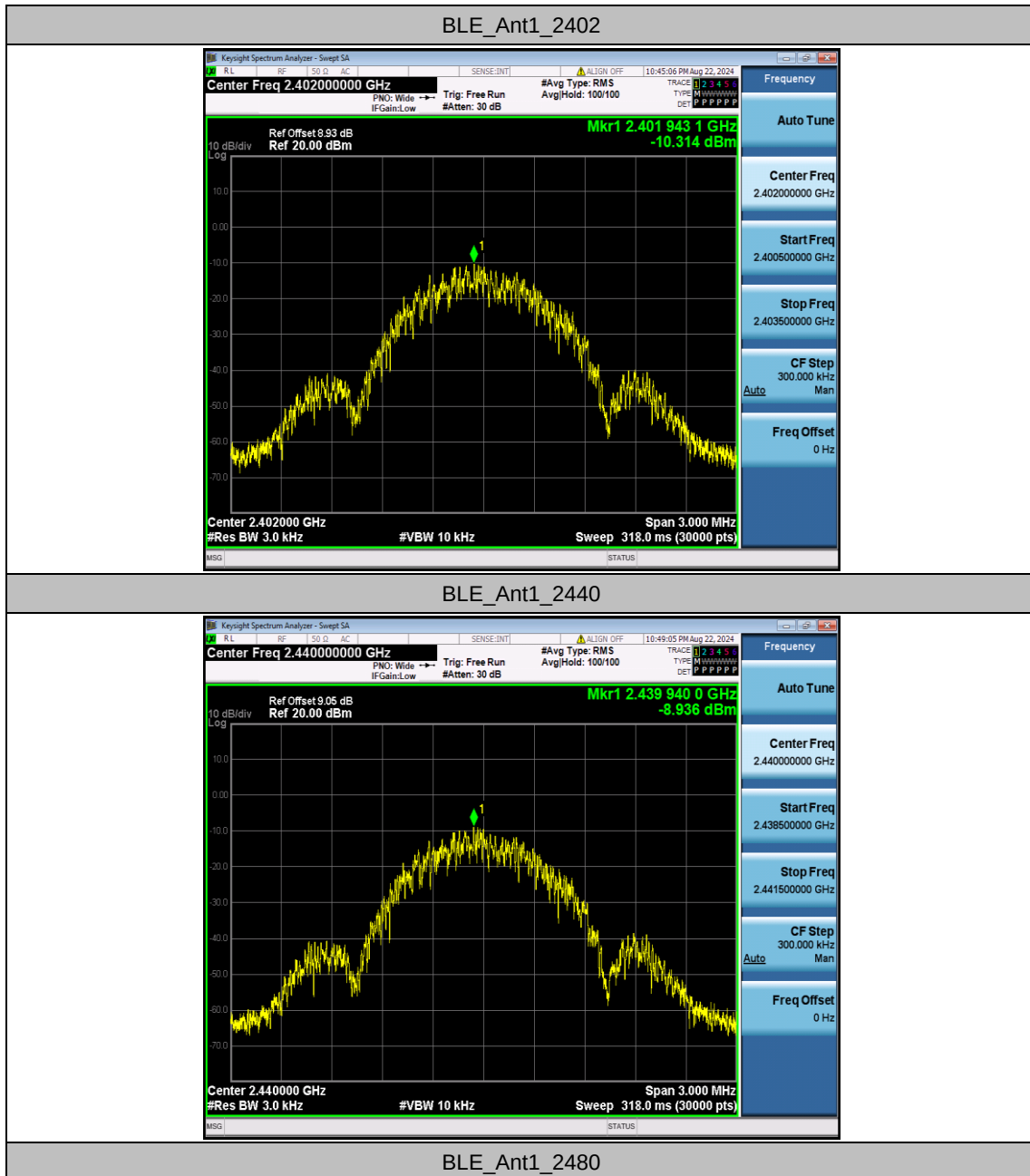
| TestMode | Antenna | Freq(MHz) | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|------------------|-----------------|---------|
| BLE      | Ant1    | 2402      | -10.31           | ≤8.00           | PASS    |
|          |         | 2440      | -8.94            | ≤8.00           | PASS    |
|          |         | 2480      | -9.59            | ≤8.00           | PASS    |

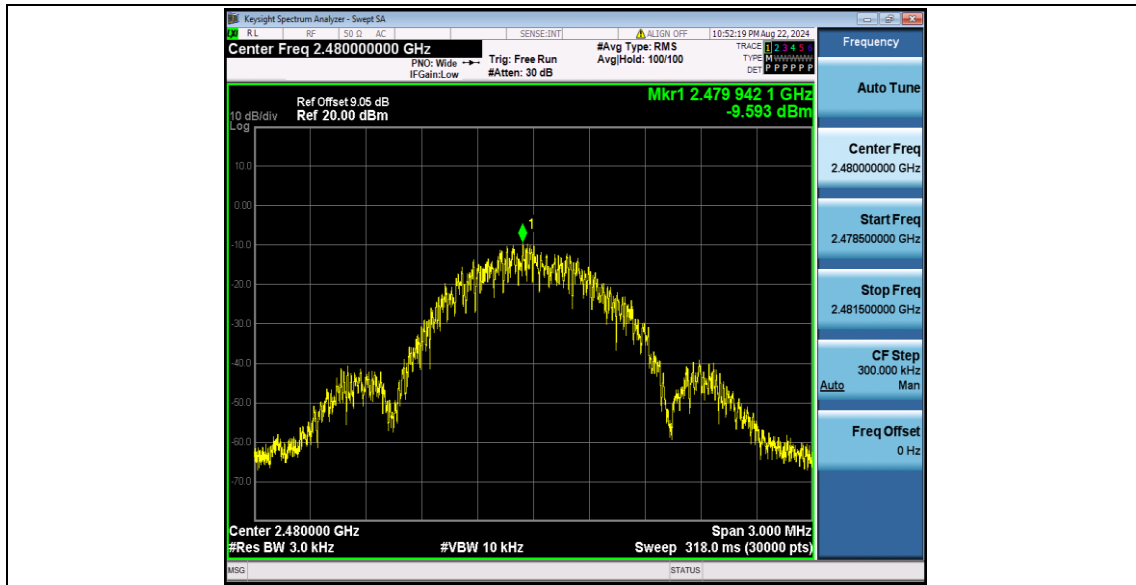
Note:

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



## Test Graphs



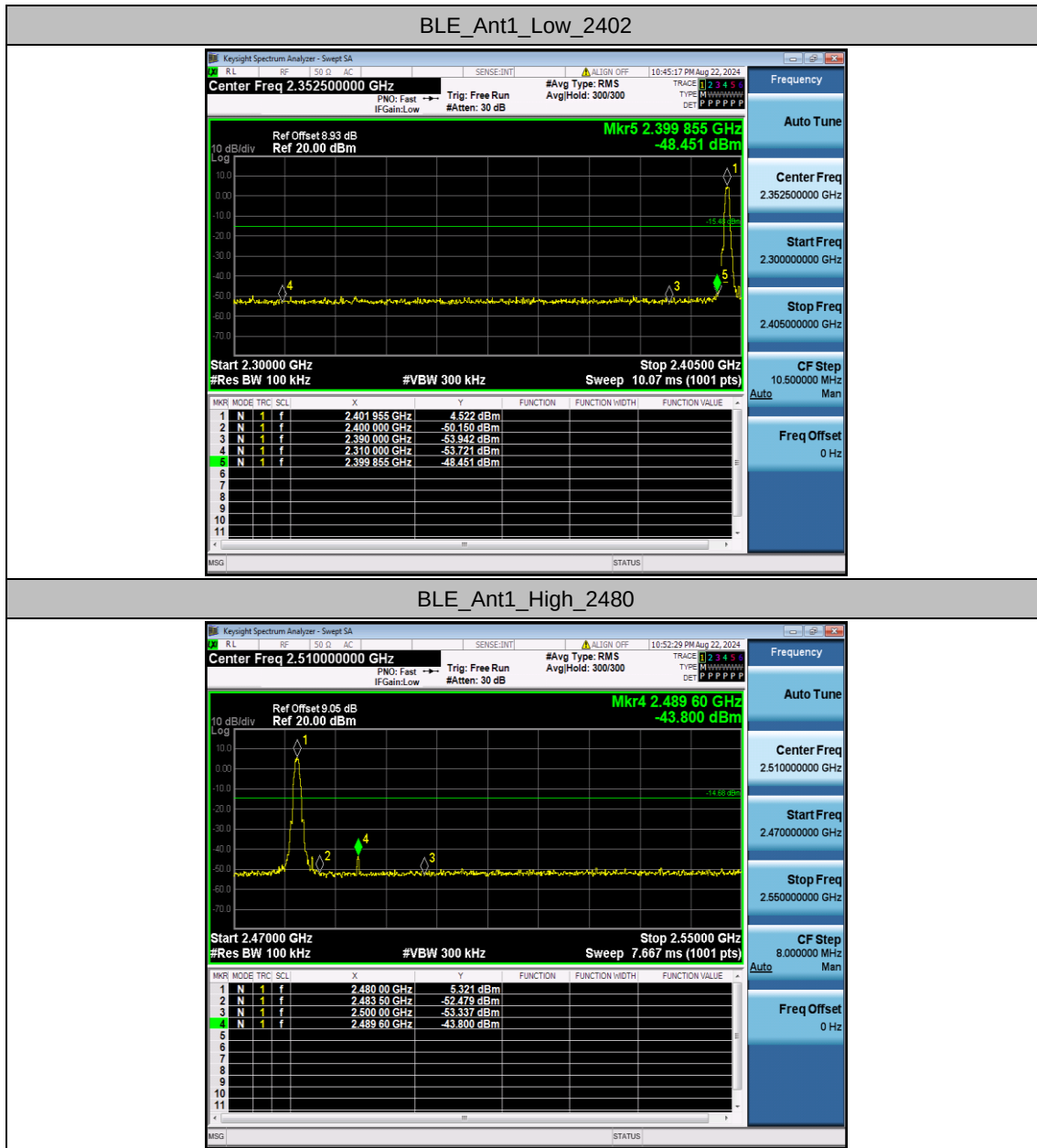


## Appendix B.5: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|---------------|-------------|------------|---------|
| BLE      | Ant1    | Low    | 2402      | 4.52          | -48.45      | ≤-15.48    | PASS    |
|          |         | High   | 2480      | 5.32          | -43.8       | ≤-14.68    | PASS    |

## Test Graphs

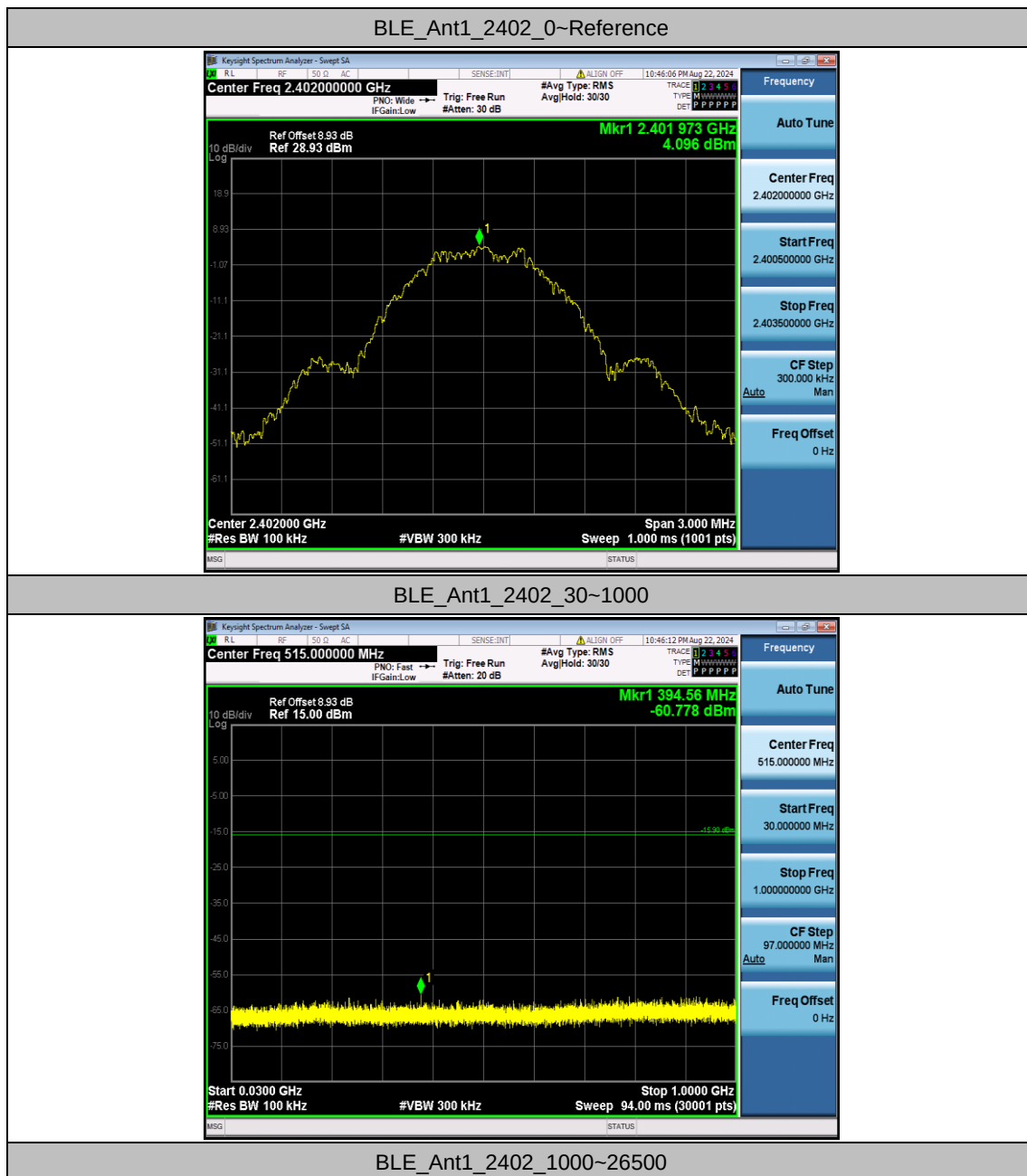


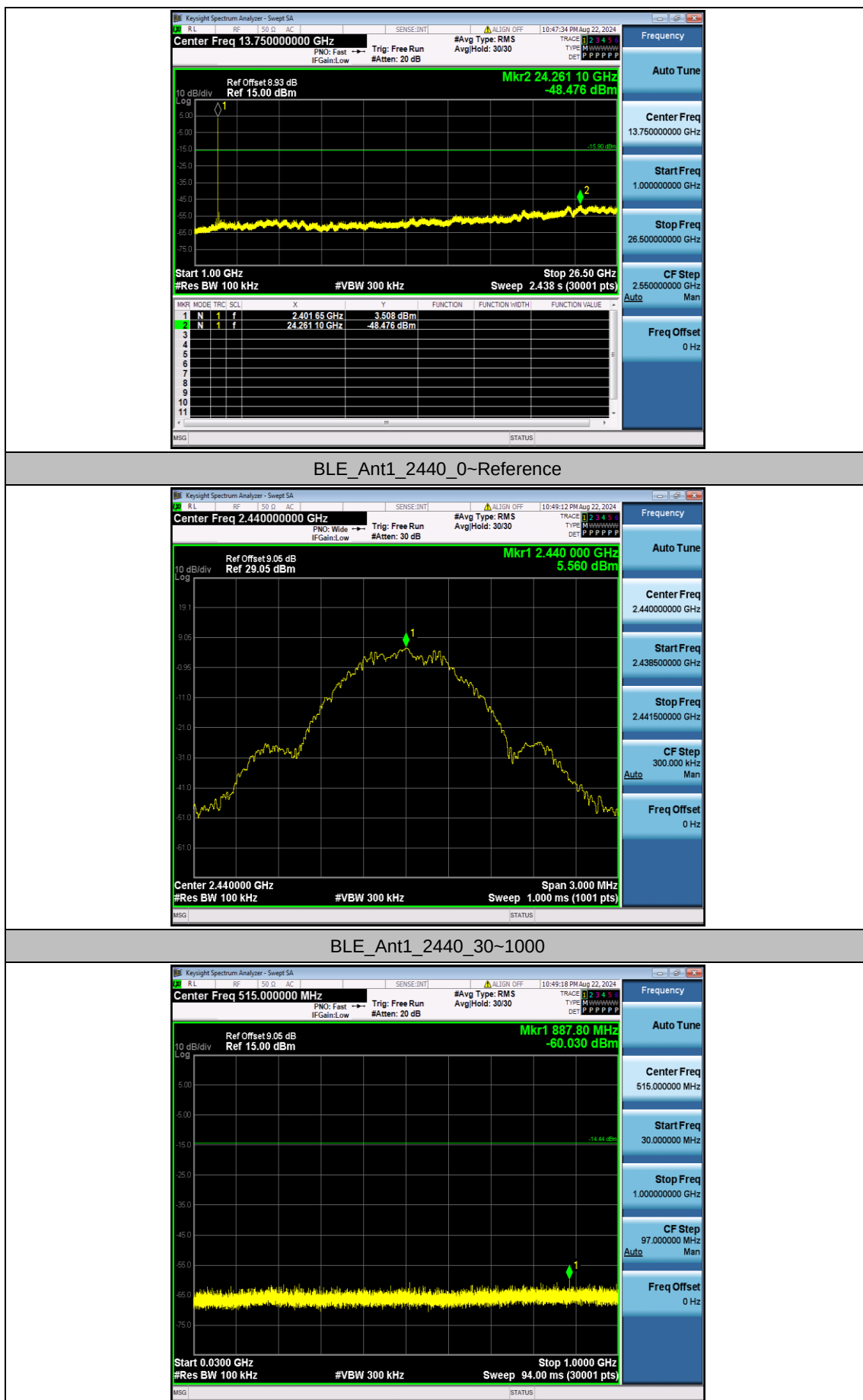
## Appendix B.6: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|-----------|--------------------|-------------------|-------------|---------------|---------|
| BLE      | Ant1    | 2402      | Reference          | 4.10              | 4.10        | ---           | PASS    |
|          |         |           | 30~1000            | 4.10              | -60.78      | $\leq -15.9$  | PASS    |
|          |         |           | 1000~26500         | 4.10              | -48.48      | $\leq -15.9$  | PASS    |
|          |         | 2440      | Reference          | 5.56              | 5.56        | ---           | PASS    |
|          |         |           | 30~1000            | 5.56              | -60.03      | $\leq -14.44$ | PASS    |
|          |         |           | 1000~26500         | 5.56              | -47.92      | $\leq -14.44$ | PASS    |
|          |         | 2480      | Reference          | 5.22              | 5.22        | ---           | PASS    |
|          |         |           | 30~1000            | 5.22              | -60.75      | $\leq -14.78$ | PASS    |
|          |         |           | 1000~26500         | 5.22              | -47.9       | $\leq -14.78$ | PASS    |

## Test Graphs





## BLE\_Ant1\_2440\_1000~26500



## BLE\_Ant1\_2480\_0~Reference



## BLE\_Ant1\_2480\_30~1000



