

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20241017023-3-01</u>          |                                          |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>52</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2024.12.4</u>                    | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix A.1: DTS Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402      | 0.660           | 2401.724 | 2402.384 | 0.5        | PASS    |
|          |         | 2440      | 0.684           | 2439.720 | 2440.404 | 0.5        | PASS    |
|          |         | 2480      | 0.696           | 2479.708 | 2480.404 | 0.5        | PASS    |

## Test Graphs

BLE\_Ant1\_2402



BLE\_Ant1\_2440



BLE\_Ant1\_2480

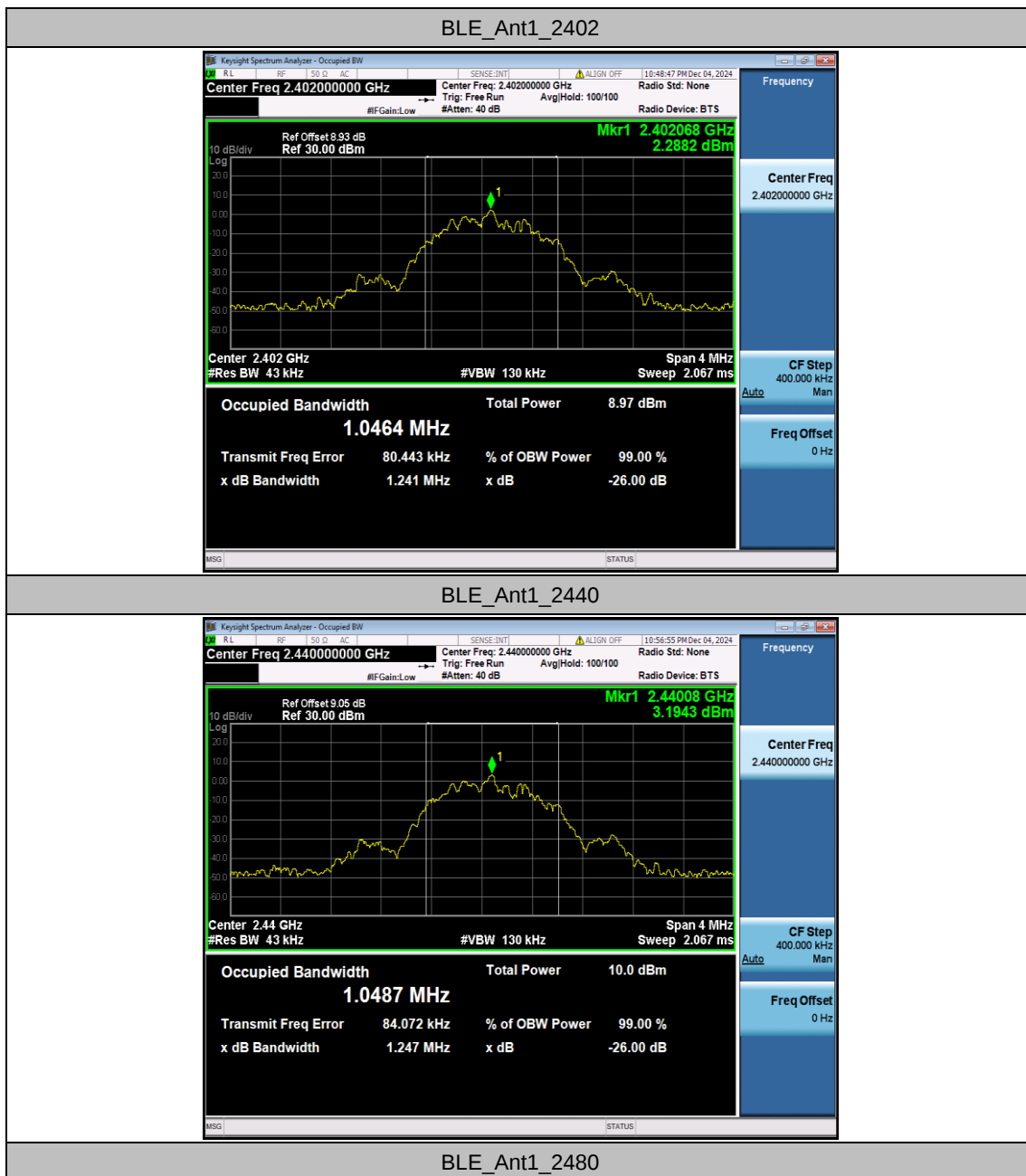


## Appendix A.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| BLE      | Ant1    | 2402      | 1.0464    | 2401.5572 | 2402.6036 | ---        | ---     |
|          |         | 2440      | 1.0487    | 2439.5597 | 2440.6084 | ---        | ---     |
|          |         | 2480      | 1.0370    | 2479.5651 | 2480.6021 | ---        | ---     |

## Test Graphs





## Appendix A.3: Maximum conducted output power

### Test Result Peak

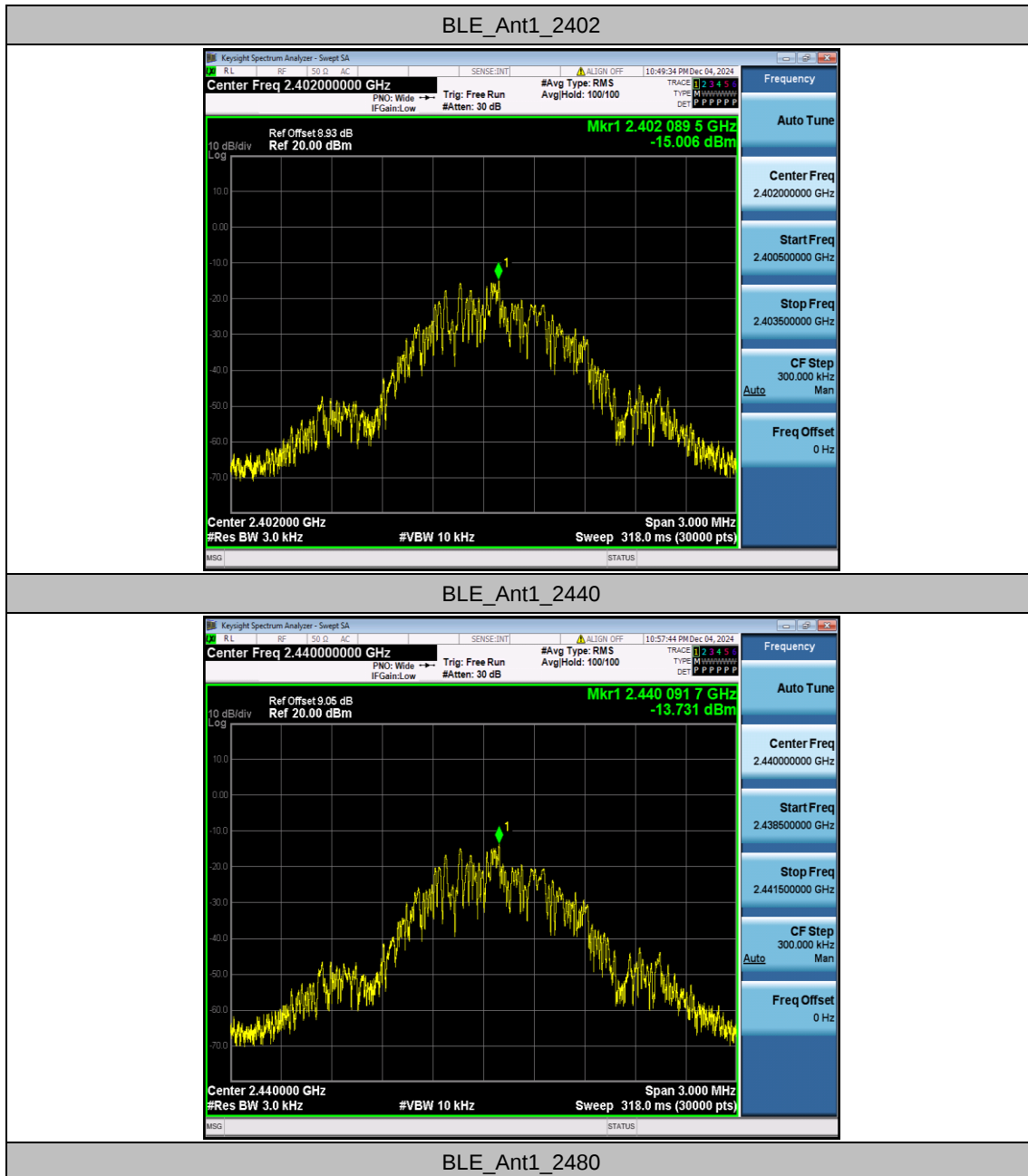
| TestMode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|-----------|---------------------------|----------------------|---------|
| BLE      | Ant1    | 2402      | 3.15                      | ≤30                  | PASS    |
|          |         | 2440      | 4.10                      | ≤30                  | PASS    |
|          |         | 2480      | 4.20                      | ≤30                  | PASS    |

## Appendix A.4: Maximum power spectral density

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|------------------|-----------------|---------|
| BLE      | Ant1    | 2402      | -15.01           | ≤8.00           | PASS    |
|          |         | 2440      | -13.73           | ≤8.00           | PASS    |
|          |         | 2480      | -13.54           | ≤8.00           | PASS    |

## Test Graphs



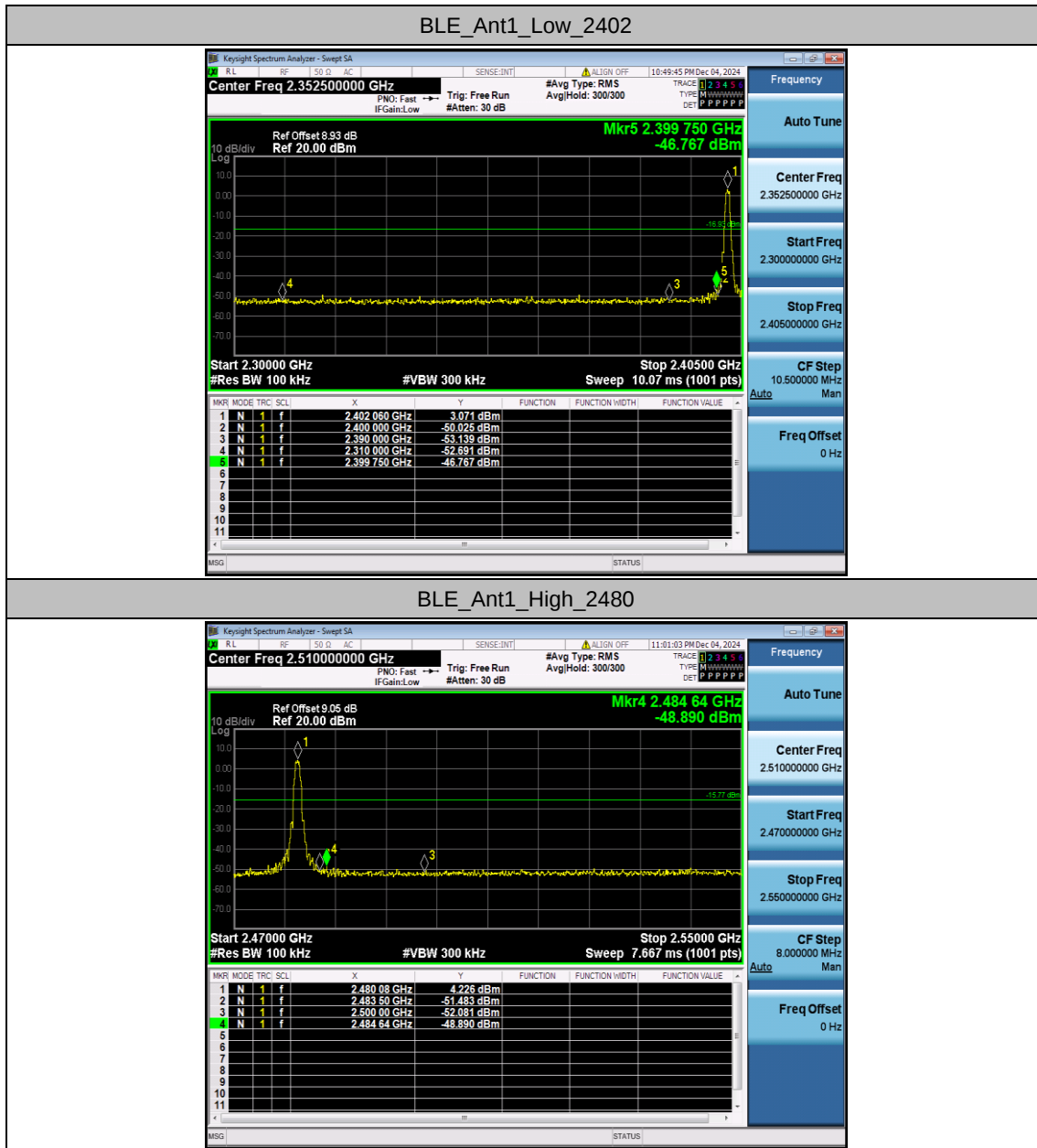


## Appendix A.5: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|---------------|-------------|------------|---------|
| BLE      | Ant1    | Low    | 2402      | 3.07          | -46.77      | ≤-16.93    | PASS    |
|          |         | High   | 2480      | 4.23          | -48.89      | ≤-15.77    | PASS    |

## Test Graphs



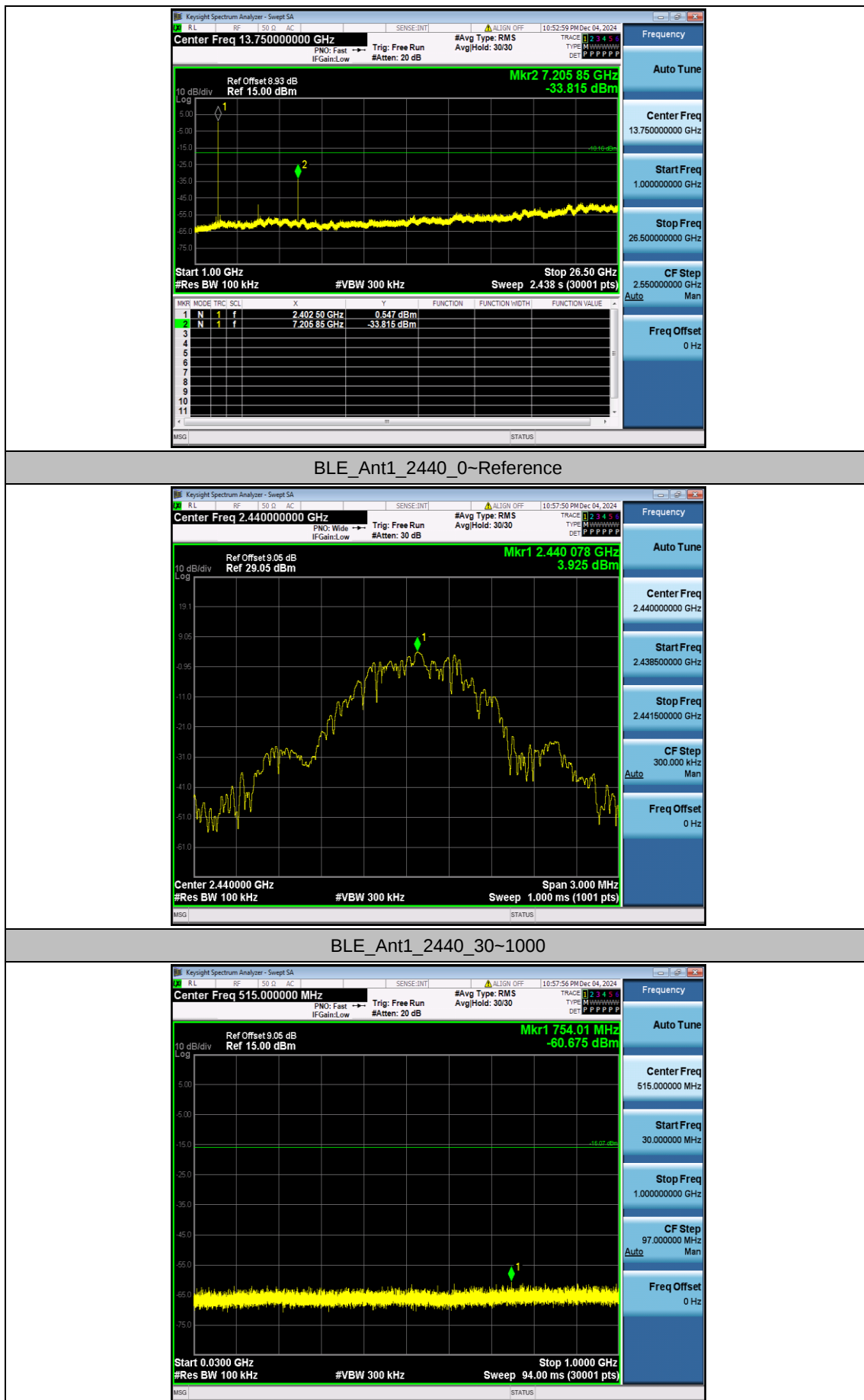
## Appendix A.6: Conducted Spurious Emission

### Test Result

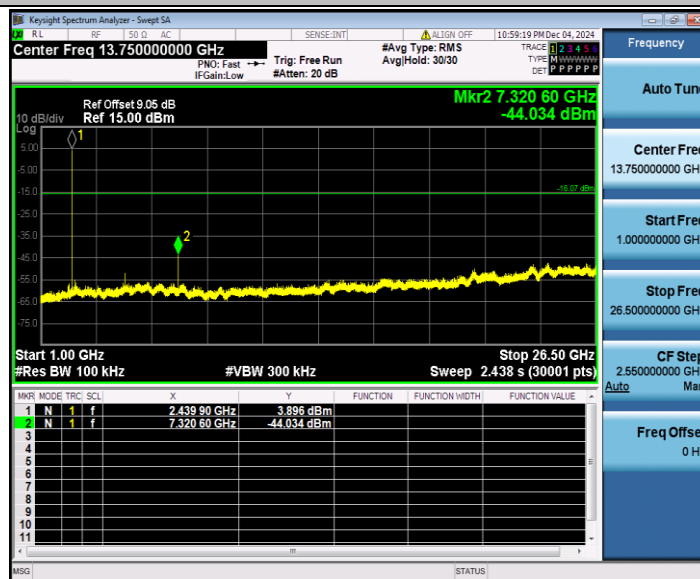
| TestMode | Antenna | Freq(MHz) | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------|--------------------|-------------------|-------------|------------|---------|
| BLE      | Ant1    | 2402      | Reference          | 1.84              | 1.84        | ---        | PASS    |
|          |         |           | 30~1000            | 1.84              | -60.44      | ≤-18.16    | PASS    |
|          |         |           | 1000~26500         | 1.84              | -33.82      | ≤-18.16    | PASS    |
|          |         | 2440      | Reference          | 3.93              | 3.93        | ---        | PASS    |
|          |         |           | 30~1000            | 3.93              | -60.68      | ≤-16.07    | PASS    |
|          |         |           | 1000~26500         | 3.93              | -44.03      | ≤-16.07    | PASS    |
|          |         | 2480      | Reference          | 2.76              | 2.76        | ---        | PASS    |
|          |         |           | 30~1000            | 2.76              | -60.59      | ≤-17.24    | PASS    |
|          |         |           | 1000~26500         | 2.76              | -42.68      | ≤-17.24    | PASS    |

## Test Graphs





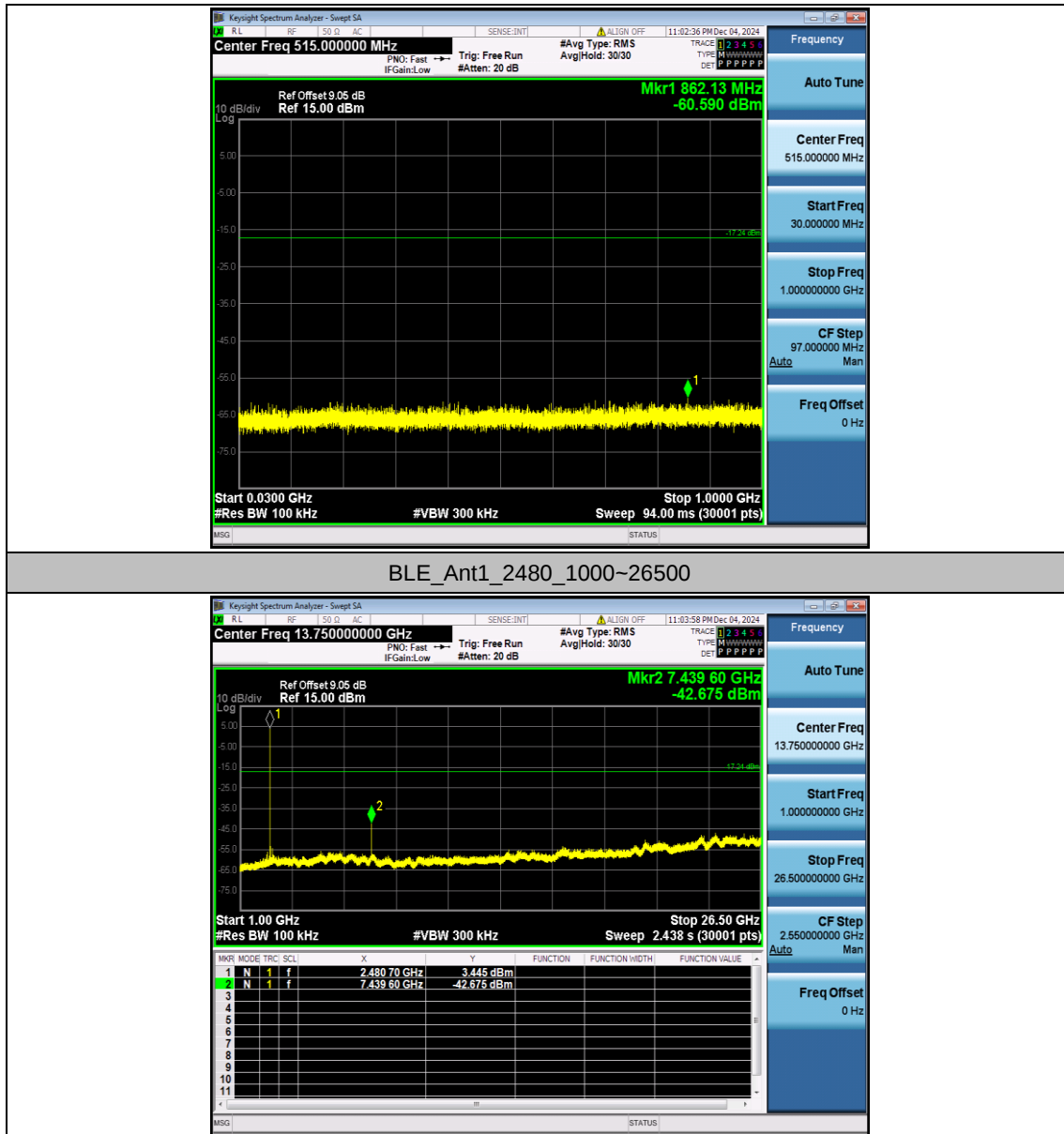
## BLE\_Ant1\_2440\_1000~26500



## BLE\_Ant1\_2480\_0~Reference



## BLE\_Ant1\_2480\_30~1000



## Appendix A.7: Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Freq(MHz ) | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| BLE      | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.27       | ≤-41.20     | 45.93           | ≤54            | PASS    |
|          |         |        |            | AV       | 2385.785   | -48.84       | ≤-41.20     | 46.36           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -48.92       | ≤-41.20     | 46.28           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -41.62       | ≤-21.20     | 53.58           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2384.000   | -37.98       | ≤-21.20     | 57.22           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.9        | ≤-21.20     | 53.30           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -47.78       | ≤-41.20     | 47.42           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -47.78       | ≤-41.20     | 47.42           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.6        | ≤-41.20     | 46.60           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -30.31       | ≤-21.20     | 64.89           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2483.520   | -30.31       | ≤-21.20     | 64.89           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2500.000   | -38.77       | ≤-21.20     | 56.43           | ≤74            | PASS    |

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

