

|                                                        |                                         |
|--------------------------------------------------------|-----------------------------------------|
| <b>Case No. :</b> <u>GTS20220224018-2-11</u>           |                                         |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>47</u> %RH, |                                         |
| <b>Test Date:</b> <u>2022.5.12</u>                     | <b>Test Engineer:</b> <u>Jenny zeng</u> |

## Appendix B.1: DTS Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402           | 1.020        | 2401.492 | 2402.512 | 0.5        | PASS    |
|          |         | 2440           | 0.932        | 2439.488 | 2440.420 | 0.5        | PASS    |
|          |         | 2480           | 0.896        | 2479.480 | 2480.376 | 0.5        | PASS    |

## Test Graphs

BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



## Appendix B.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402           | 0.94016   | 2401.541 | 2402.481 | ---        | ---     |
|          |         | 2440           | 0.89573   | 2439.571 | 2440.467 | ---        | ---     |
|          |         | 2480           | 0.92044   | 2479.533 | 2480.454 | ---        | ---     |

## Test Graphs

BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



**Appendix B.3: Maximum power spectral density**

**Test Result**

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE      | Ant1    | 2402           | 5.76             | ≤8.00           | PASS    |
|          |         | 2440           | 6.54             | ≤8.00           | PASS    |
|          |         | 2480           | 7.20             | ≤8.00           | PASS    |

## Test Graphs

BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



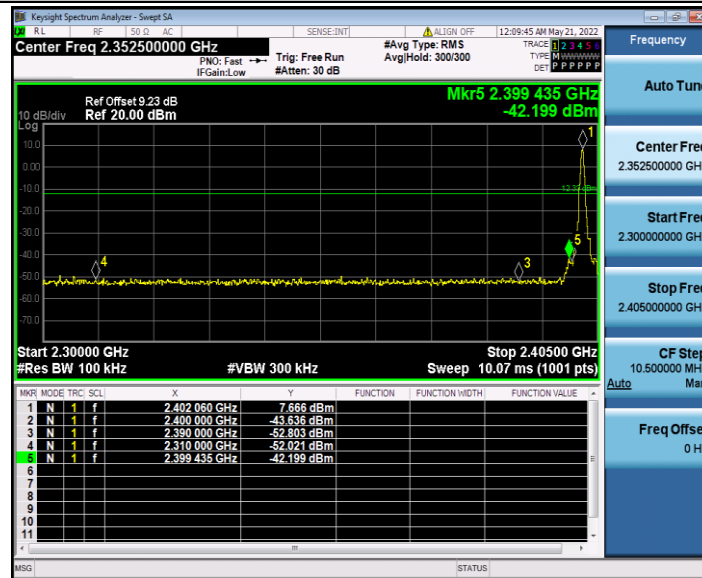
Appendix B.4: Band edge measurements

Test Result

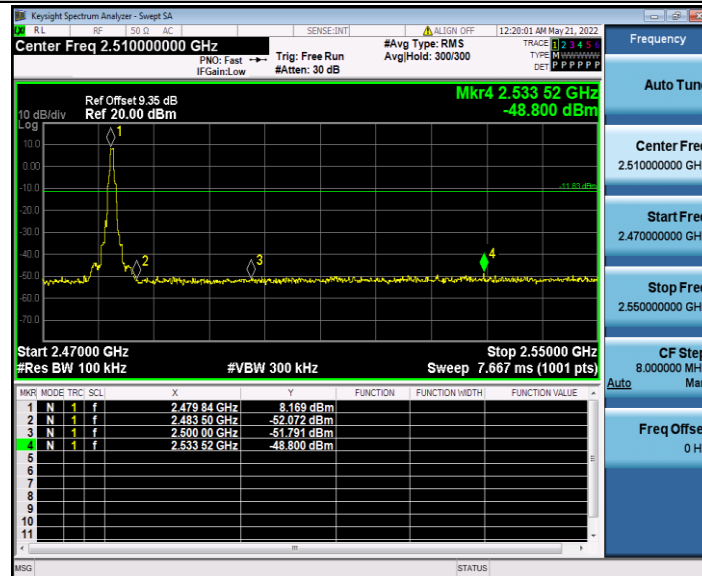
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE      | Ant1    | Low    | 2402           | 7.67          | -42.2       | ≤-12.33    | PASS    |
|          |         | High   | 2480           | 8.17          | -48.8       | ≤-11.83    | PASS    |

## Test Graphs

BLE\_BT4.0\_Ant1\_Low\_2402



BLE\_BT4.0\_Ant1\_High\_2480



## Appendix B.5: Conducted Spurious Emission

### Test Result

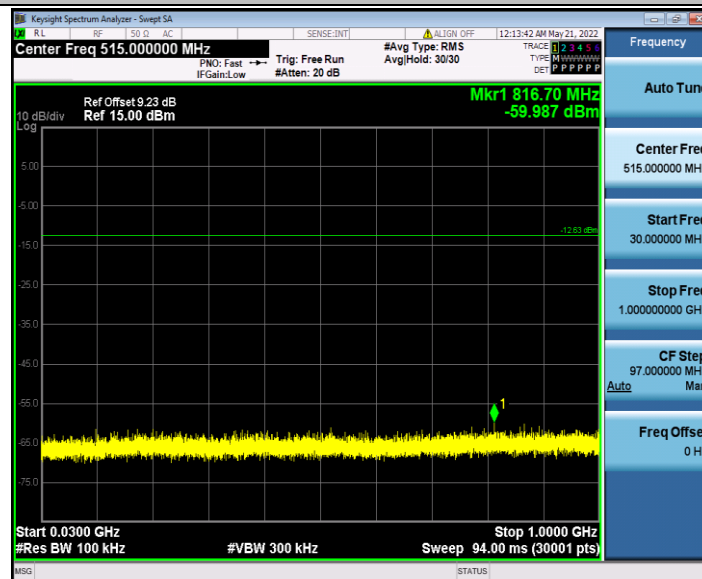
| TestMode | Antenna | Frequency[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|--------------------|-------------------|-------------|------------|---------|
| BLE      | Ant1    | 2402           | Reference          | 7.37              | 7.37        | ---        | PASS    |
|          |         |                | 30~1000            | 7.37              | -59.99      | ≤-12.63    | PASS    |
|          |         |                | 1000~26500         | 7.37              | -47.71      | ≤-12.63    | PASS    |
|          |         | 2440           | Reference          | 8.18              | 8.18        | ---        | PASS    |
|          |         |                | 30~1000            | 8.18              | -60.28      | ≤-11.82    | PASS    |
|          |         |                | 1000~26500         | 8.18              | -47.61      | ≤-11.82    | PASS    |
|          |         | 2480           | Reference          | 8.07              | 8.07        | ---        | PASS    |
|          |         |                | 30~1000            | 8.07              | -60.38      | ≤-11.93    | PASS    |
|          |         |                | 1000~26500         | 8.07              | -47.82      | ≤-11.93    | PASS    |

## Test Graphs

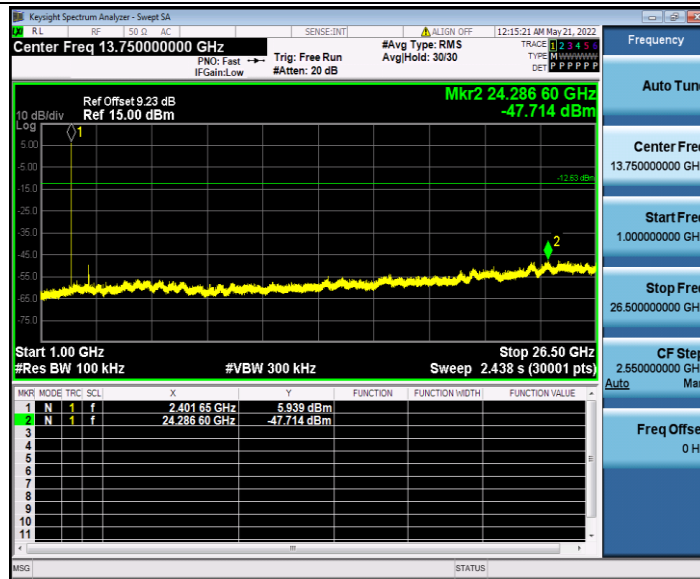
BLE\_BT4.0\_Ant1\_2402\_0~Reference



BLE\_BT4.0\_Ant1\_2402\_30~1000



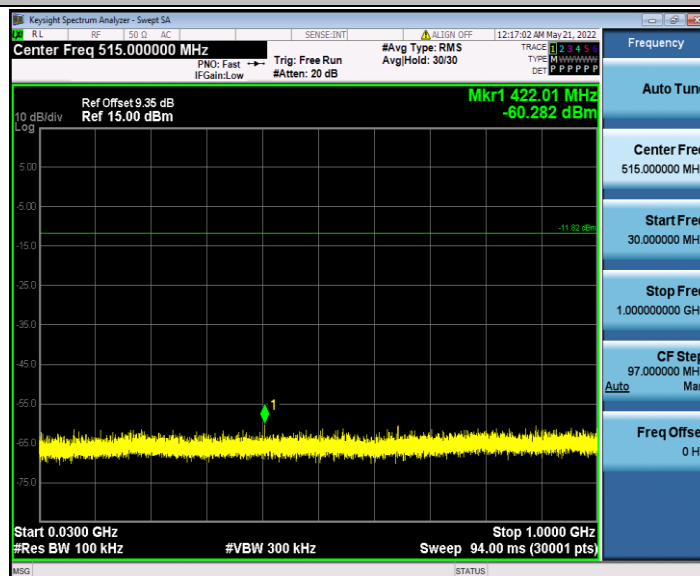
BLE\_BT4.0\_Ant1\_2402\_1000~26500



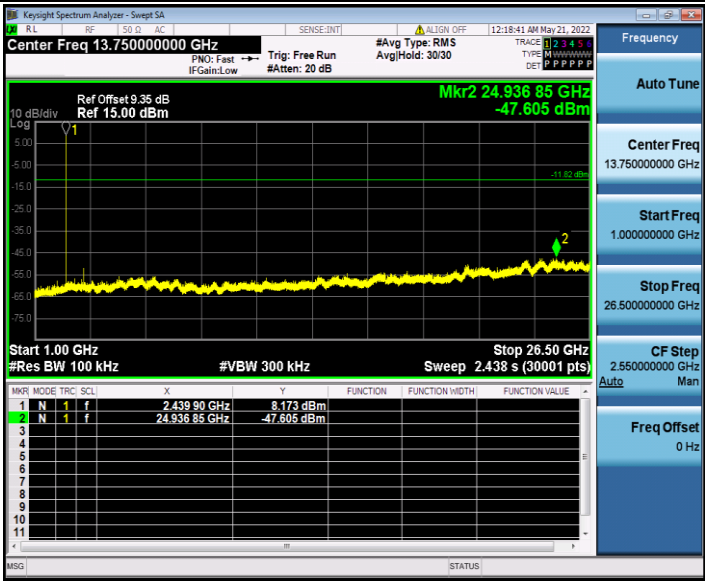
BLE\_BT4.0\_Ant1\_2440\_0-Reference



BLE\_BT4.0\_Ant1\_2440\_30~1000



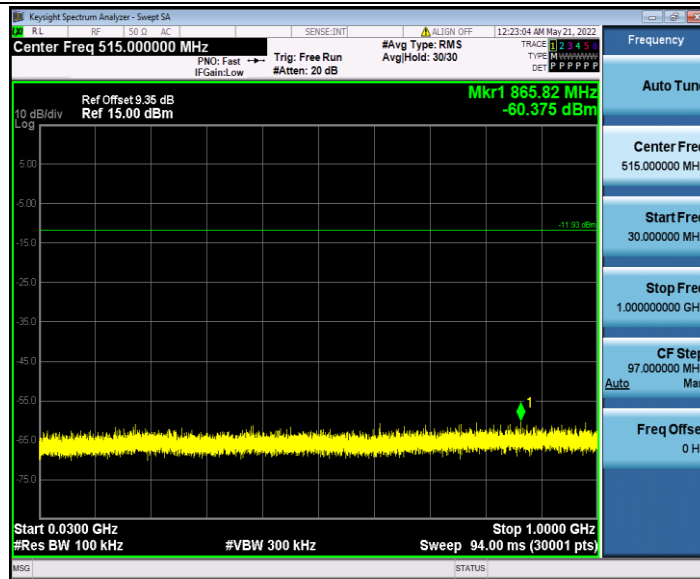
BLE\_BT4.0\_Ant1\_2440\_1000-26500



BLE\_BT4.0\_Ant1\_2480\_0-Reference



BLE\_BT4.0\_Ant1\_2480\_30-1000



BLE\_BT4.0\_Ant1\_2480\_1000~26500

