

|                                                                     |                                         |
|---------------------------------------------------------------------|-----------------------------------------|
| <b>Case No. :</b> <u>GTS20220419012-1-1&amp; GTS20220419012-1-3</u> |                                         |
| <b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH,              |                                         |
| <b>Test Date:</b> <u>2022.4.26</u>                                  | <b>Test Engineer:</b> <u>Jenny zeng</u> |

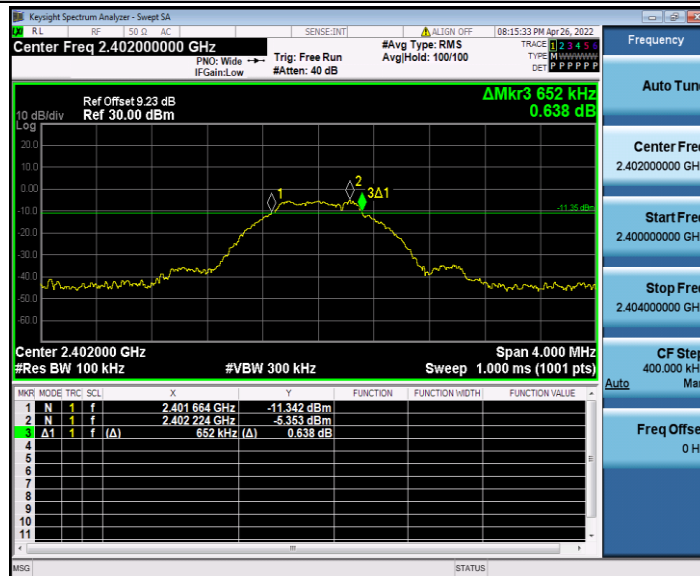
## Appendix A.1: DTS Bandwidth

### Test Result

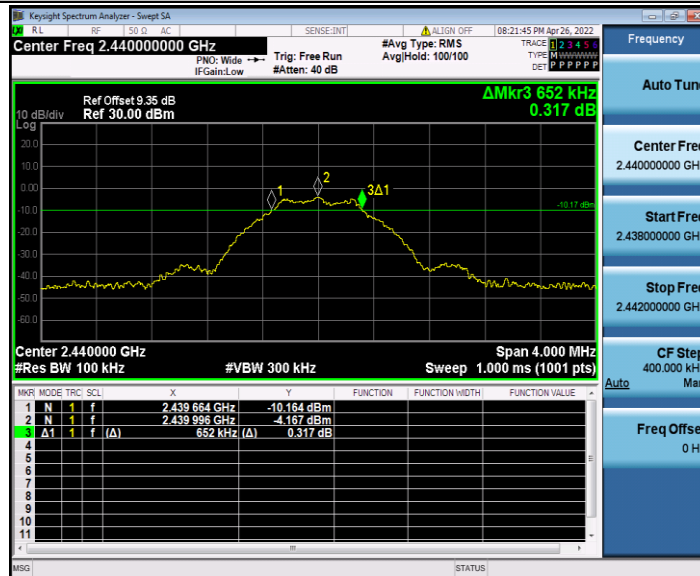
| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402           | 0.652        | 2401.664 | 2402.316 | 0.5        | PASS    |
|          |         | 2440           | 0.652        | 2439.664 | 2440.316 | 0.5        | PASS    |
|          |         | 2480           | 0.664        | 2479.660 | 2480.324 | 0.5        | PASS    |

## Test Graphs

BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

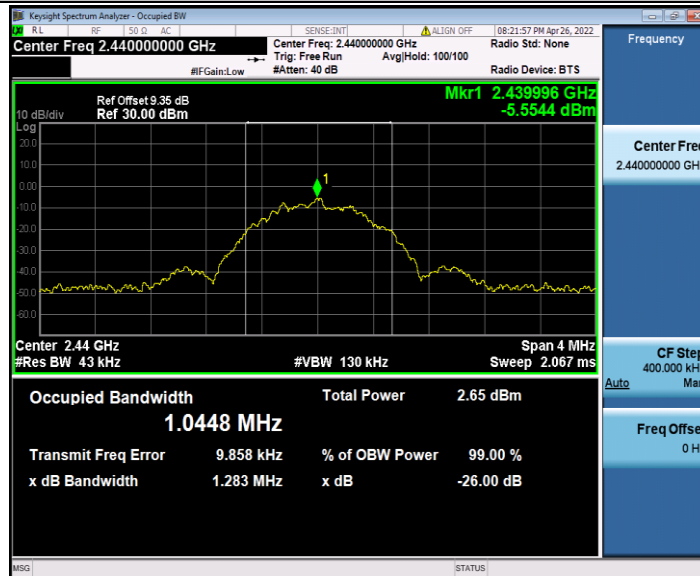
| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402           | 1.0361    | 2401.491 | 2402.527 | ---        | ---     |
|          |         | 2440           | 1.0448    | 2439.487 | 2440.532 | ---        | ---     |
|          |         | 2480           | 1.0430    | 2479.490 | 2480.533 | ---        | ---     |

## Test Graphs

BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



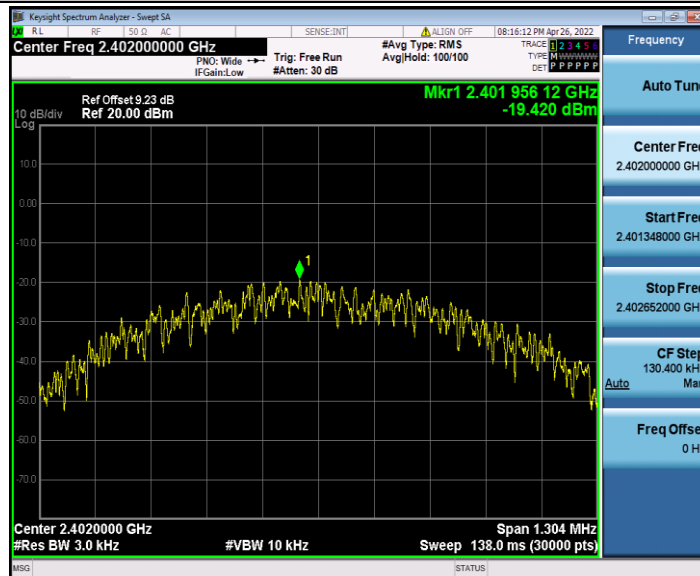
**Appendix A.3: Maximum power spectral density**

**Test Result**

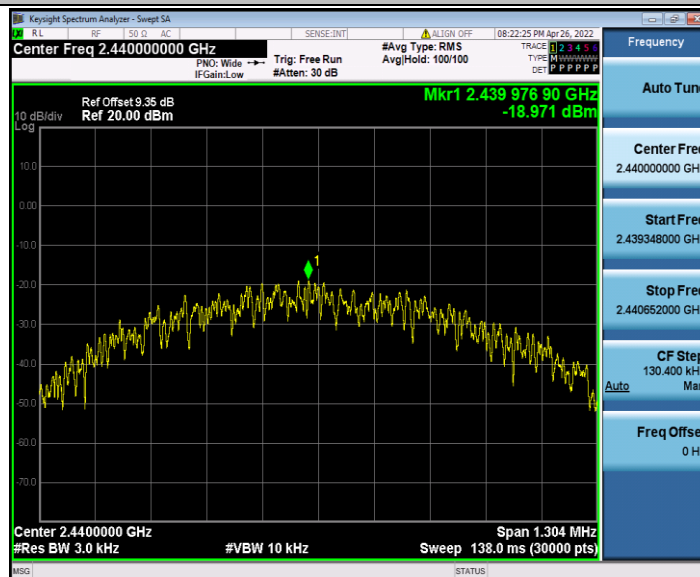
| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE      | Ant1    | 2402           | -19.42           | ≤8.00           | PASS    |
|          |         | 2440           | -18.97           | ≤8.00           | PASS    |
|          |         | 2480           | -19.08           | ≤8.00           | PASS    |

## Test Graphs

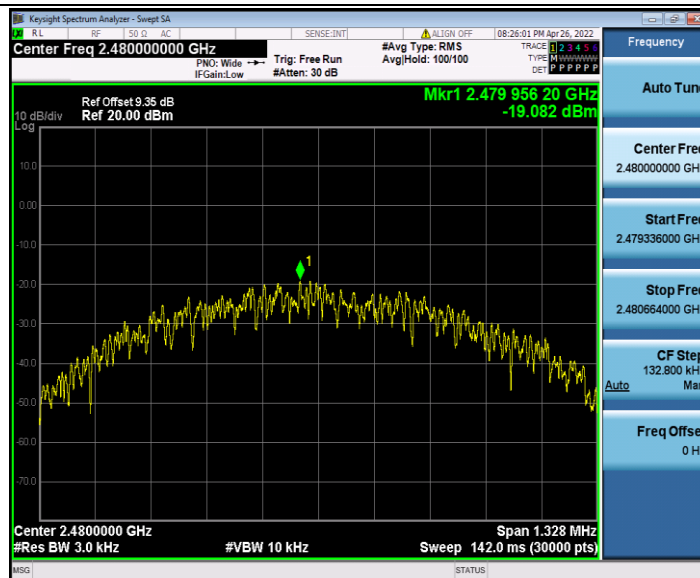
BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480

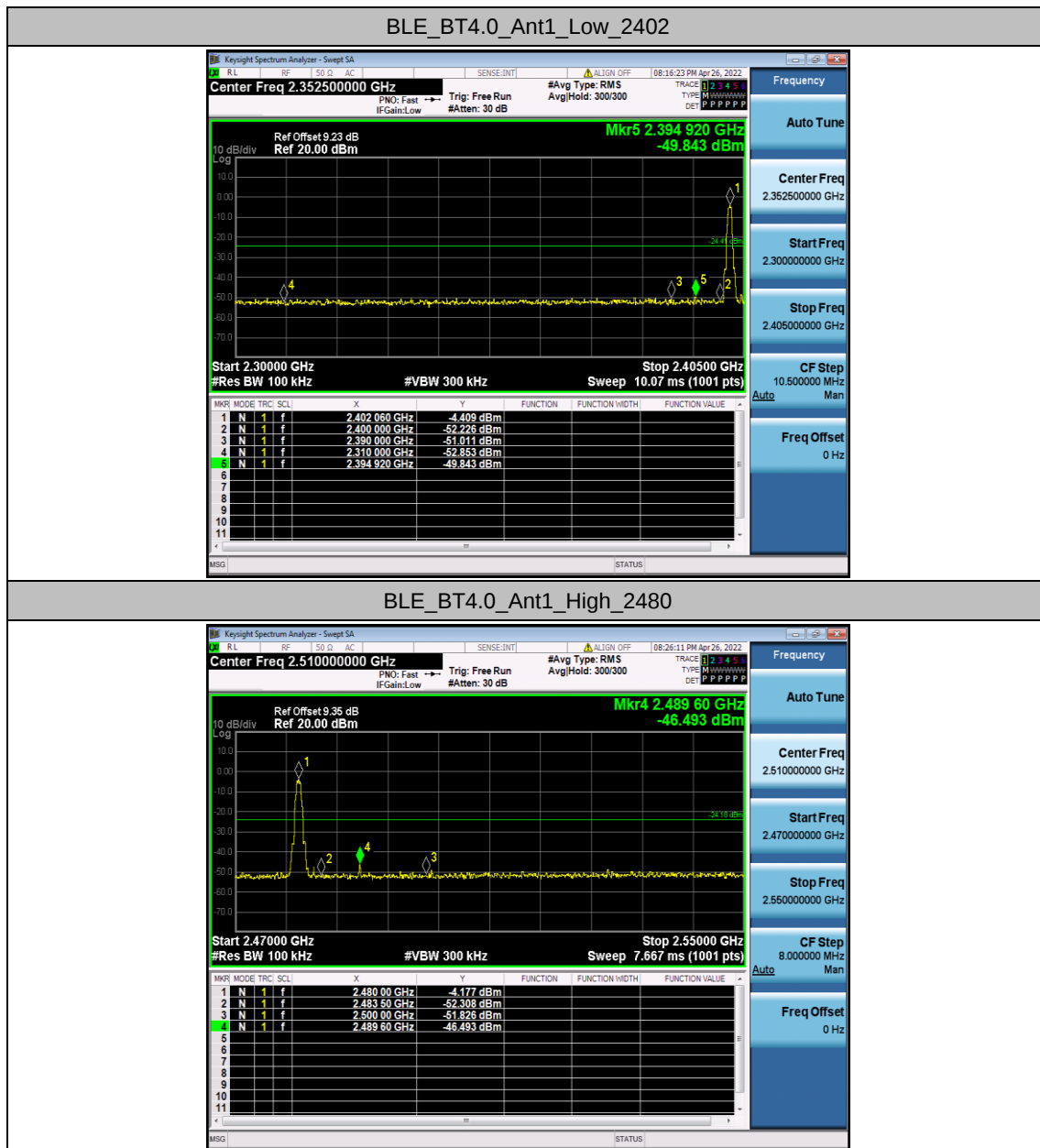


## Appendix A.4: Band edge measurements

### Test Result

| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_BT4.0 | Ant1    | Low    | 2402           | -4.41         | -49.84      | ≤-24.41    | PASS    |
|           |         | High   | 2480           | -4.18         | -46.49      | ≤-24.18    | PASS    |

### Test Graphs



## Appendix A.5: Conducted Spurious Emission

### Test Result

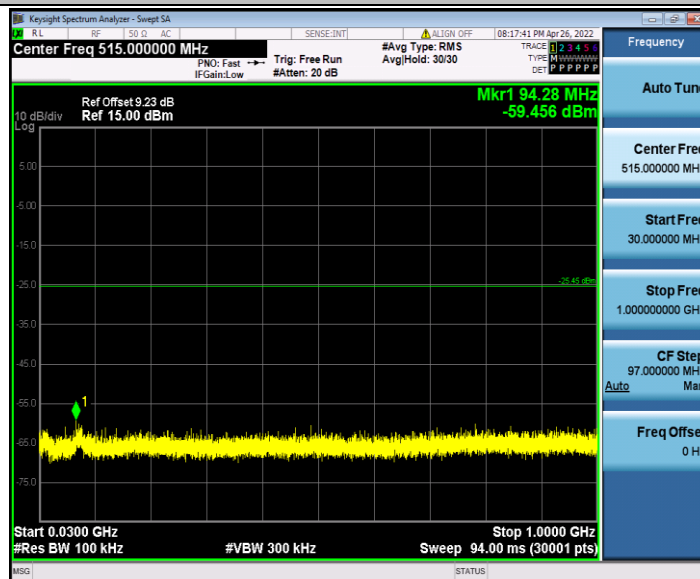
| TestMode  | Antenna | Frequency[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|----------------|--------------------|-------------------|-------------|---------------|---------|
| BLE_BT4.0 | Ant1    | 2402           | Reference          | -5.45             | -5.45       | ---           | PASS    |
|           |         |                | 30~1000            | -5.45             | -59.46      | $\leq -25.45$ | PASS    |
|           |         |                | 1000~26500         | -5.45             | -47.66      | $\leq -25.45$ | PASS    |
|           |         | 2440           | Reference          | -4.99             | -4.99       | ---           | PASS    |
|           |         |                | 30~1000            | -4.99             | -59.35      | $\leq -24.99$ | PASS    |
|           |         |                | 1000~26500         | -4.99             | -47.7       | $\leq -24.99$ | PASS    |
|           |         | 2480           | Reference          | -5.26             | -5.26       | ---           | PASS    |
|           |         |                | 30~1000            | -5.26             | -57.34      | $\leq -25.26$ | PASS    |
|           |         |                | 1000~26500         | -5.26             | -47.15      | $\leq -25.26$ | PASS    |

## Test Graphs

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



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



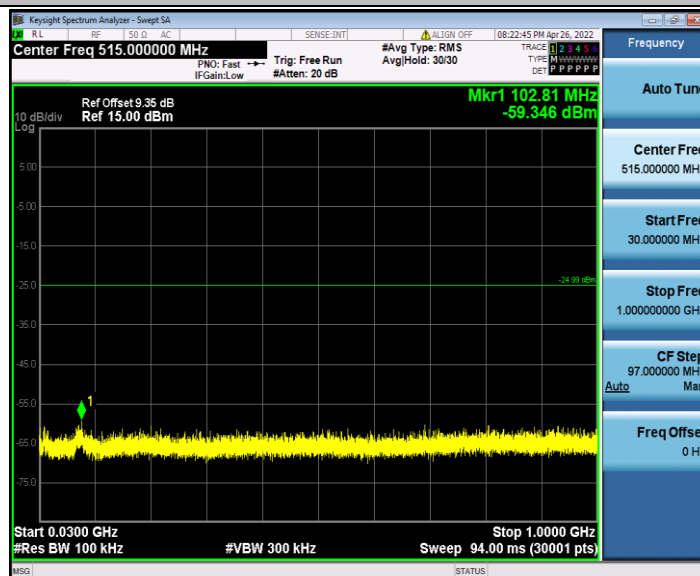
BLE\_BT4.0\_Ant1\_2402\_1000~26500



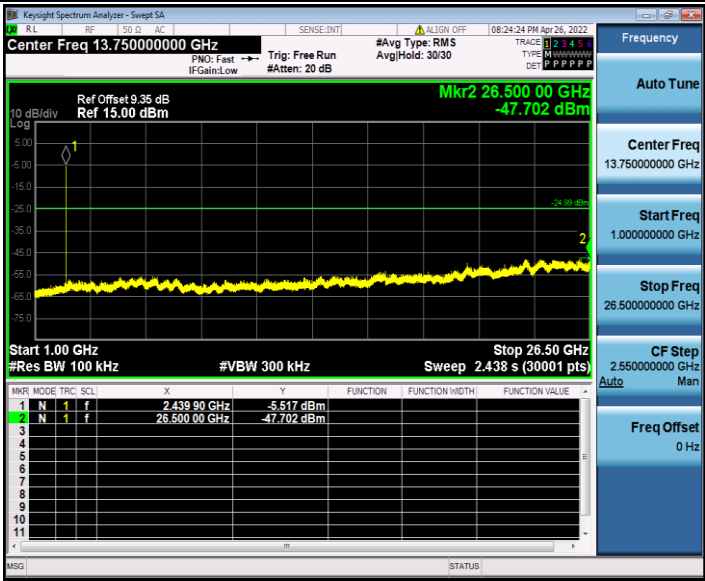
BLE\_BT4.0\_Ant1\_2440\_0-Reference



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



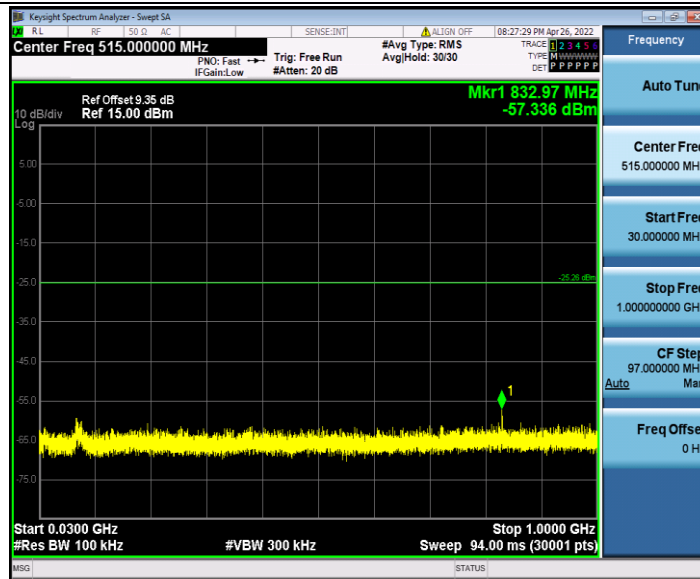
BLE\_BT4.0\_Ant1\_2440\_1000-26500



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



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



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

