

**Appendix Test Data for Bluetooth BLE****Appendix A: DTS Bandwidth****Test Result**

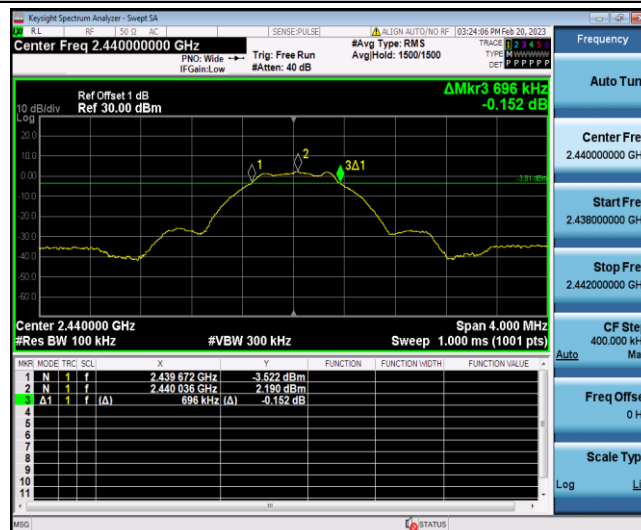
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| LE_1Mbps | Ant1    | 2402    | 0.708        | 2401.660 | 2402.368 | 0.5        | PASS    |
|          |         | 2440    | 0.696        | 2439.672 | 2440.368 | 0.5        | PASS    |
|          |         | 2480    | 0.700        | 2479.664 | 2480.364 | 0.5        | PASS    |
| LE_2Mbps | Ant1    | 2402    | 1.182        | 2401.430 | 2402.612 | 0.5        | PASS    |
|          |         | 2440    | 1.182        | 2439.436 | 2440.618 | 0.5        | PASS    |
|          |         | 2480    | 1.182        | 2479.430 | 2480.612 | 0.5        | PASS    |

## Test Graphs

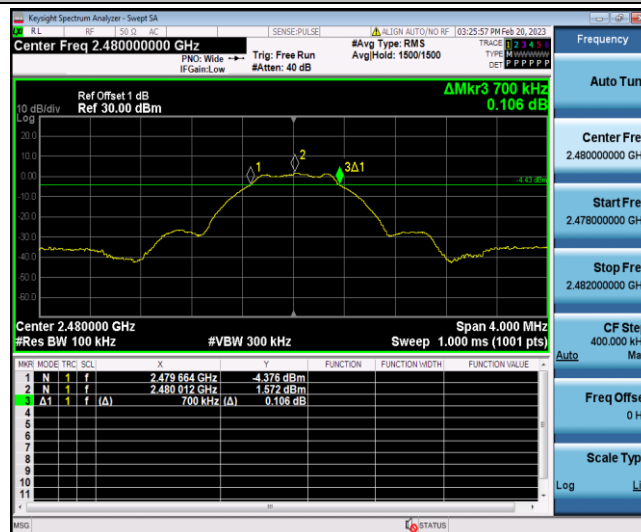
LE\_1Mbps\_Ant1\_2402



LE\_1Mbps\_Ant1\_2440



LE\_1Mbps\_Ant1\_2480



## LE\_2Mbps\_Ant1\_2402



## LE\_2Mbps\_Ant1\_2440



## LE\_2Mbps\_Ant1\_2480



## Appendix B: Occupied Channel Bandwidth

### Test Result

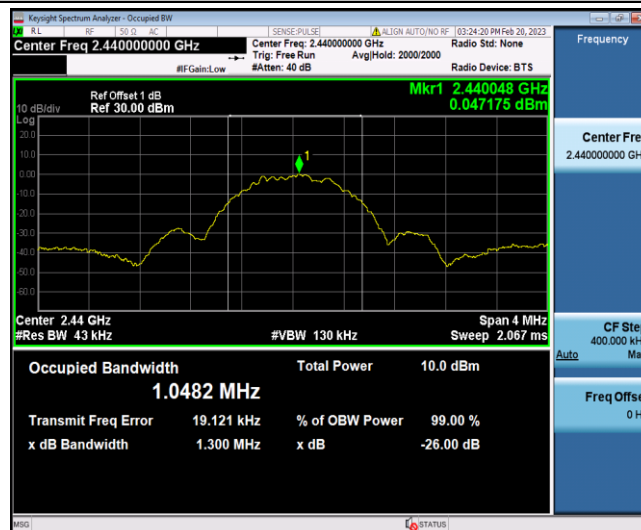
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| LE_1Mbps | Ant1    | 2402    | 1.0479    | 2401.4911 | 2402.5390 | ---        | ---     |
|          |         | 2440    | 1.0482    | 2439.4950 | 2440.5432 | ---        | ---     |
|          |         | 2480    | 1.0548    | 2479.4862 | 2480.5410 | ---        | ---     |
| LE_2Mbps | Ant1    | 2402    | 2.0840    | 2400.9816 | 2403.0656 | ---        | ---     |
|          |         | 2440    | 2.0876    | 2438.9833 | 2441.0709 | ---        | ---     |
|          |         | 2480    | 2.0908    | 2478.9764 | 2481.0672 | ---        | ---     |

## Test Graphs

LE\_1Mbps\_Ant1\_2402



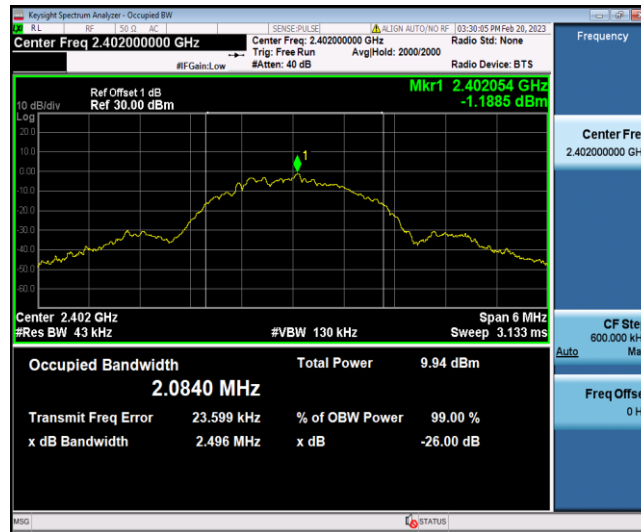
LE\_1Mbps\_Ant1\_2440



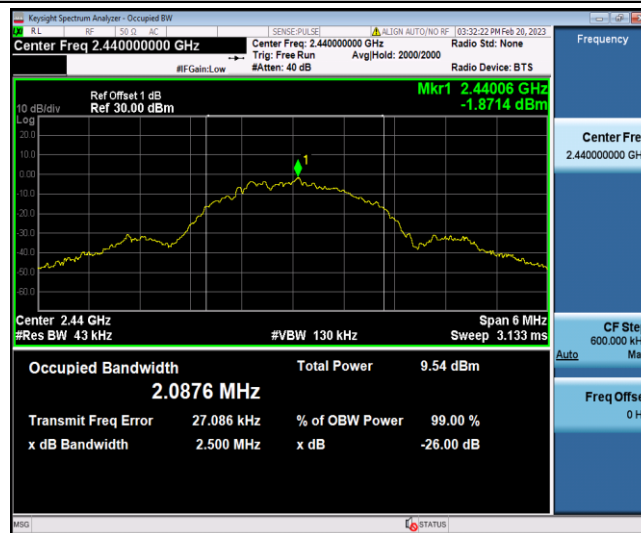
LE\_1Mbps\_Ant1\_2480



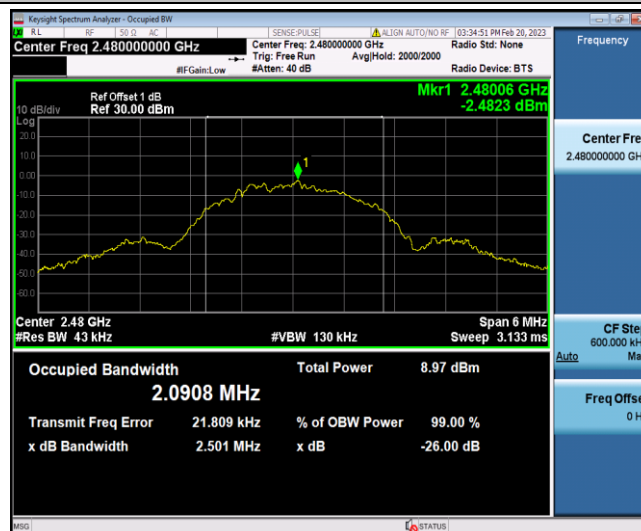
## LE\_2Mbps\_Ant1\_2402



## LE\_2Mbps\_Ant1\_2440



## LE\_2Mbps\_Ant1\_2480



## Appendix C: Maximum conducted output power and EIRP

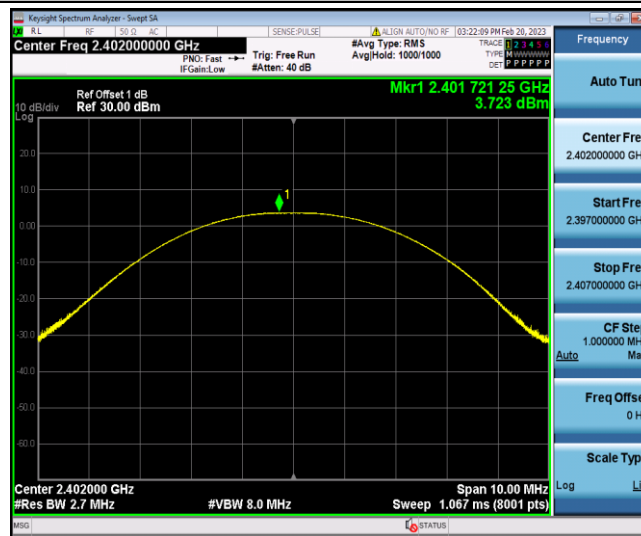
### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| LE_1Mbps | Ant1    | 2402    | 3.72        | ≤30        | PASS    |
|          |         | 2440    | 3.29        | ≤30        | PASS    |
|          |         | 2480    | 2.7         | ≤30        | PASS    |
| LE_2Mbps | Ant1    | 2402    | 3.66        | ≤30        | PASS    |
|          |         | 2440    | 3.16        | ≤30        | PASS    |
|          |         | 2480    | 2.57        | ≤30        | PASS    |

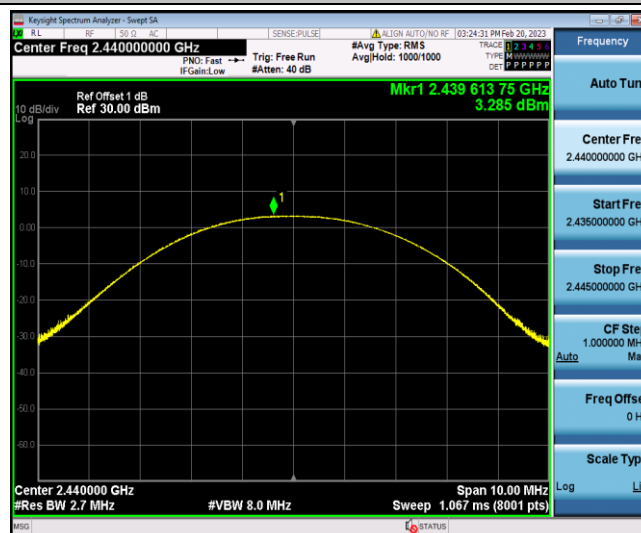
| TestMode | Antenna | Channel | Conducted output power [dBm] | Antenna gain(dBi) | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|----------|---------|---------|------------------------------|-------------------|------------|------------------|---------|
| LE_1Mbps | Ant1    | 2402    | 3.72                         | 0.6               | 4.32       | ≤36.02           | PASS    |
|          |         | 2440    | 3.29                         | 0.6               | 3.89       | ≤36.02           | PASS    |
|          |         | 2480    | 2.7                          | 0.6               | 3.30       | ≤36.02           | PASS    |
| LE_2Mbps | Ant1    | 2402    | 3.66                         | 0.6               | 4.26       | ≤36.02           | PASS    |
|          |         | 2440    | 3.16                         | 0.6               | 3.76       | ≤36.02           | PASS    |
|          |         | 2480    | 2.57                         | 0.6               | 3.17       | ≤36.02           | PASS    |

## Test Graphs

LE\_1Mbps\_Ant1\_2402

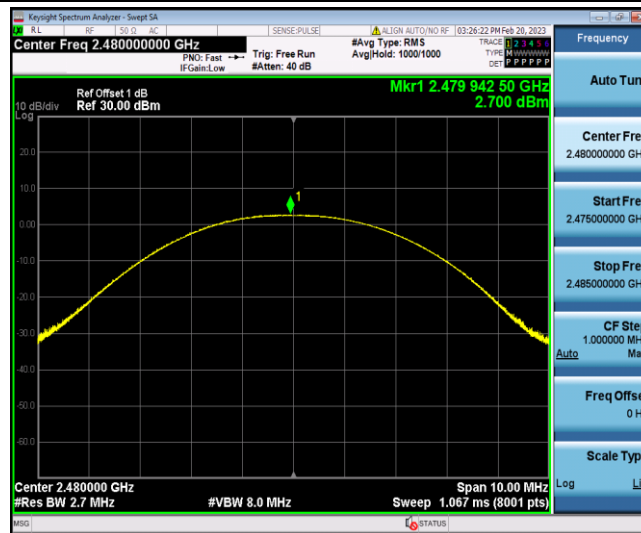


LE\_1Mbps\_Ant1\_2440

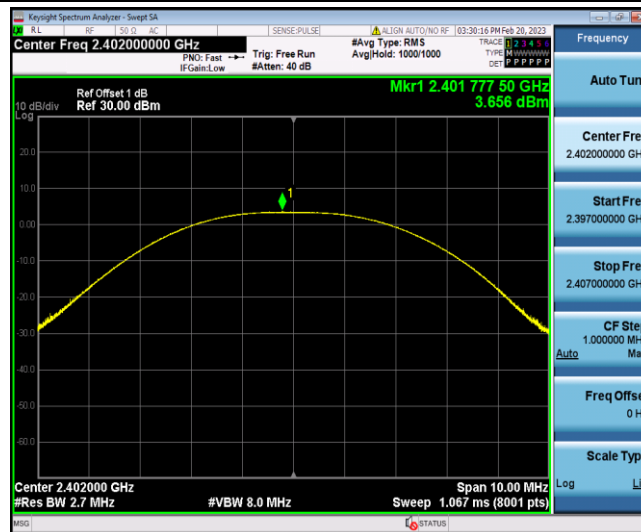


LE\_1Mbps\_Ant1\_2480

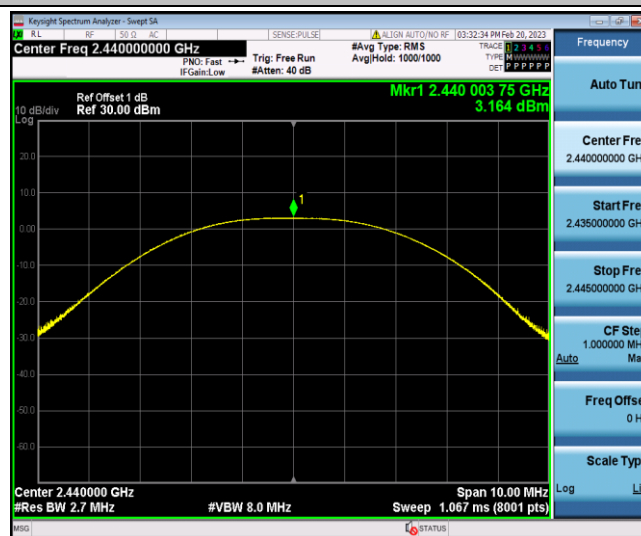




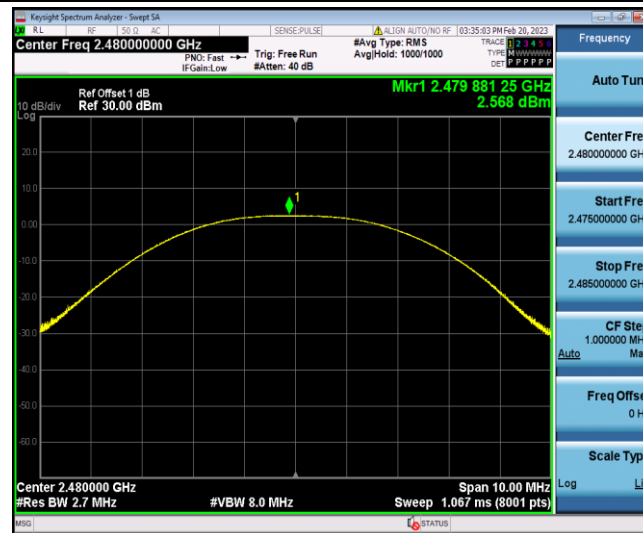
LE\_2Mbps\_Ant1\_2402



LE\_2Mbps\_Ant1\_2440



LE\_2Mbps\_Ant1\_2480



## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| LE_1Mbps | Ant1    | 2402    | -12.05               | ≤8.00           | PASS    |
|          |         | 2440    | -12.45               | ≤8.00           | PASS    |
|          |         | 2480    | -12.83               | ≤8.00           | PASS    |
| LE_2Mbps | Ant1    | 2402    | -15.91               | ≤8.00           | PASS    |
|          |         | 2440    | -16.42               | ≤8.00           | PASS    |
|          |         | 2480    | -16.79               | ≤8.00           | PASS    |

## Test Graphs

LE\_1Mbps\_Ant1\_2402



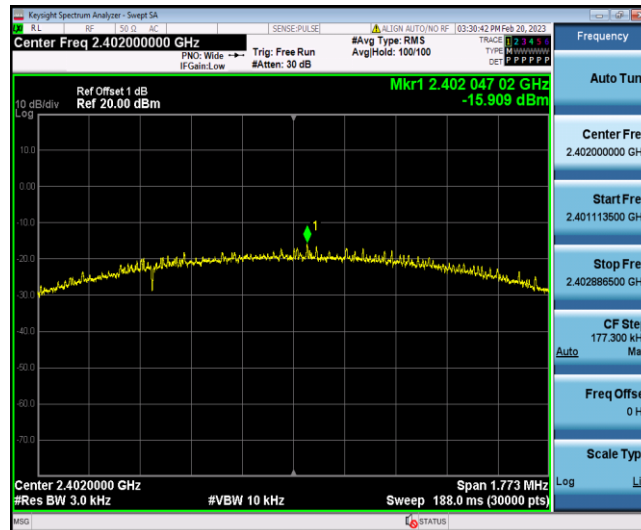
LE\_1Mbps\_Ant1\_2440



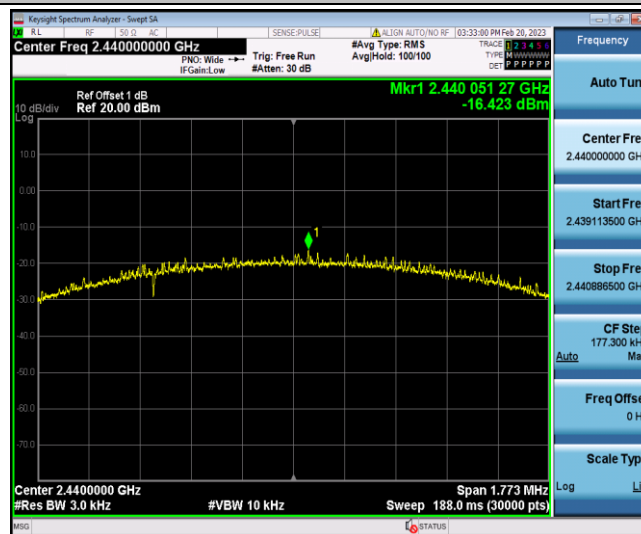
LE\_1Mbps\_Ant1\_2480



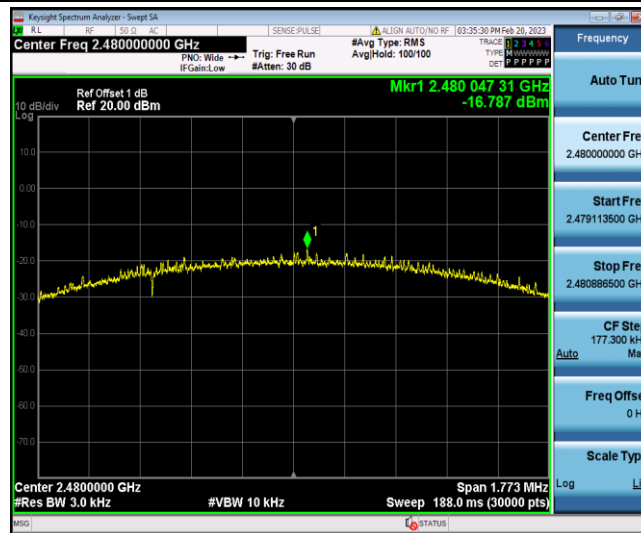
LE\_2Mbps\_Ant1\_2402



LE\_2Mbps\_Ant1\_2440



LE\_2Mbps\_Ant1\_2480



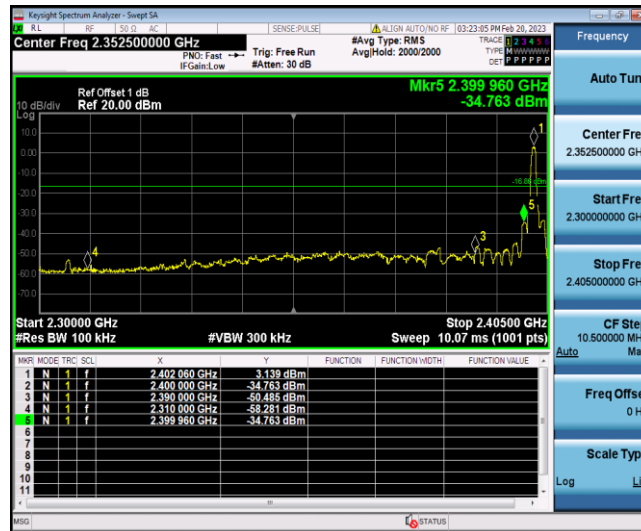
## Appendix E: Band edge measurements

### Test Result

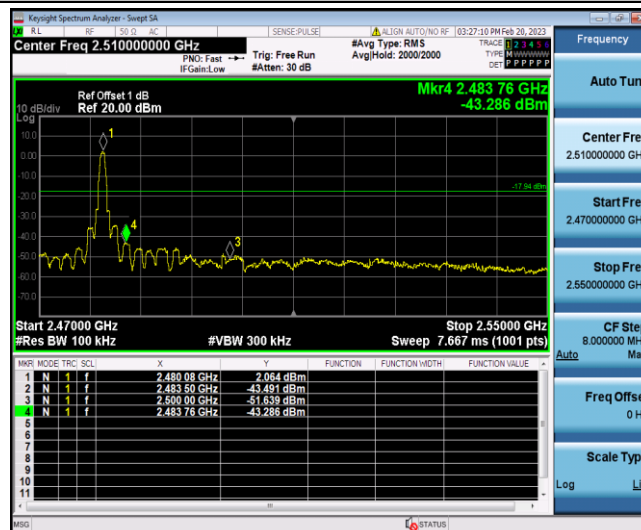
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|---------|---------------|-------------|---------------|---------|
| LE_1Mbps | Ant1    | Low    | 2402    | 3.14          | -34.76      | $\leq -16.86$ | PASS    |
|          |         | High   | 2480    | 2.06          | -43.29      | $\leq -17.94$ | PASS    |
| LE_2Mbps | Ant1    | Low    | 2402    | 2.47          | -28.13      | $\leq -17.53$ | PASS    |
|          |         | High   | 2480    | 1.41          | -43.96      | $\leq -18.59$ | PASS    |

## Test Graphs

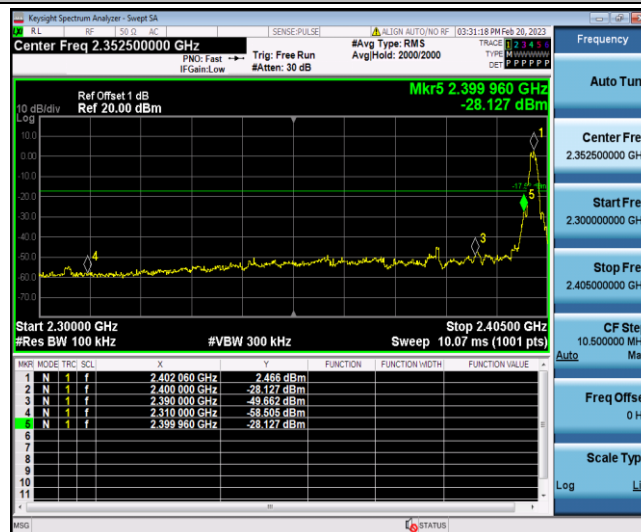
LE\_1Mbps\_Ant1\_Low\_2402



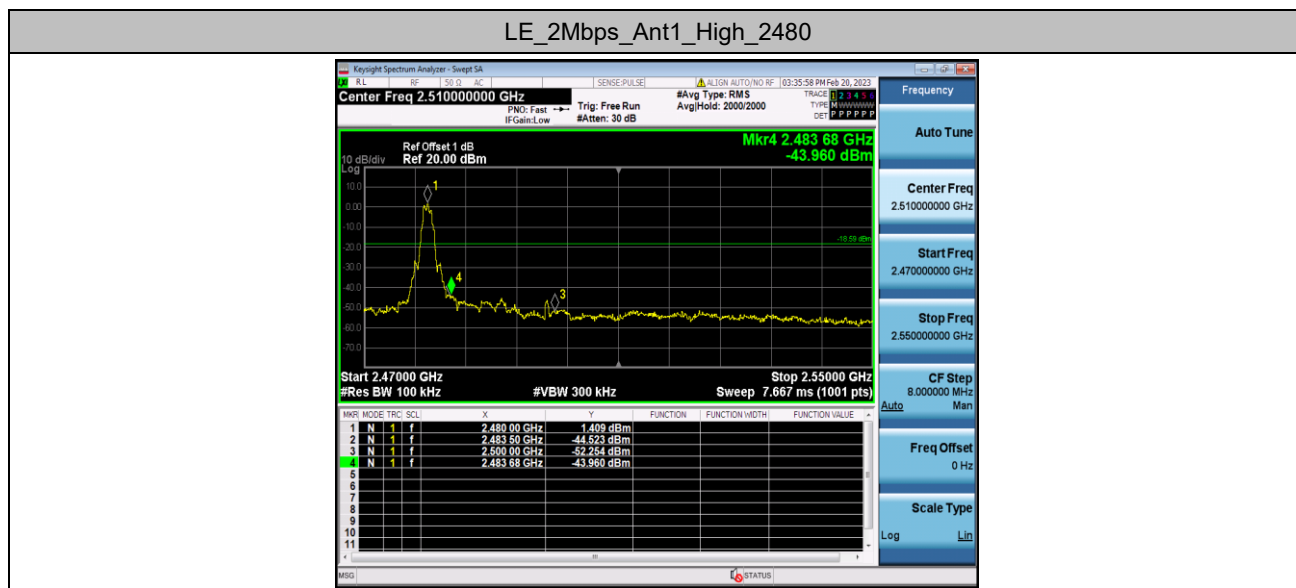
LE\_1Mbps\_Ant1\_High\_2480



LE\_2Mbps\_Ant1\_Low\_2402







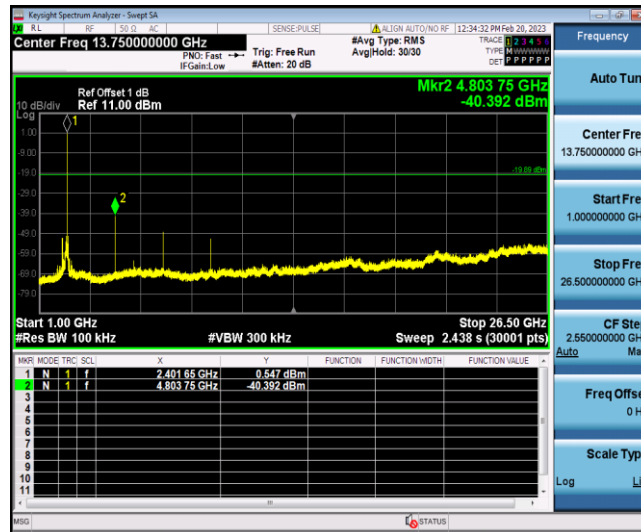
## Appendix F: Conducted Spurious Emission

### Test Result

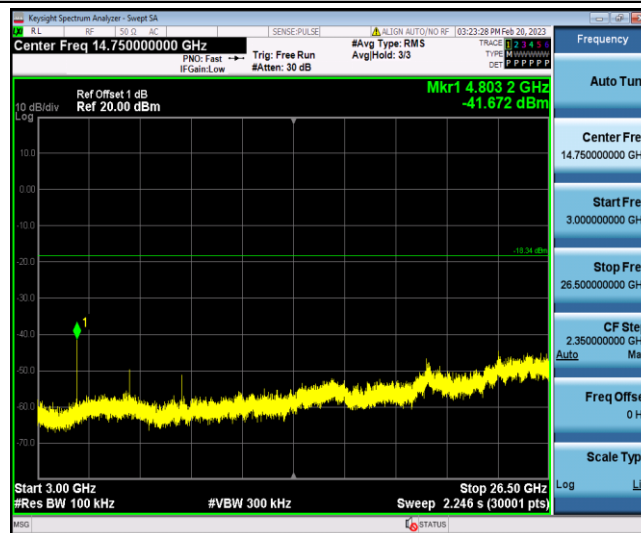
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| LE_1Mbps | Ant1    | 2402    | Reference          | 1.66              | 1.66        | ---        | PASS    |
|          |         |         | 30~3000            | 1.66              | -53.82      | ≤-18.34    | PASS    |
|          |         |         | 30~1000            | 0.11              | -67.2       | ≤-19.89    | PASS    |
|          |         |         | 1000~26500         | 0.11              | -40.39      | ≤-19.89    | PASS    |
|          |         |         | 3000~26500         | 1.66              | -41.67      | ≤-18.34    | PASS    |
|          |         | 2440    | Reference          | 1.33              | 1.33        | ---        | PASS    |
|          |         |         | 30~3000            | 1.33              | -55.32      | ≤-18.67    | PASS    |
|          |         |         | 3000~26500         | 1.33              | -44.46      | ≤-18.67    | PASS    |
|          |         | 2480    | Reference          | 0.38              | 0.38        | ---        | PASS    |
|          |         |         | 30~3000            | 0.38              | -55.63      | ≤-19.62    | PASS    |
|          |         |         | 3000~26500         | 0.38              | -44.9       | ≤-19.62    | PASS    |
| LE_2Mbps | Ant1    | 2402    | Reference          | -0.04             | -0.04       | ---        | PASS    |
|          |         |         | 30~3000            | -0.04             | -55.12      | ≤-20.04    | PASS    |
|          |         |         | 3000~26500         | -0.04             | -43.61      | ≤-20.04    | PASS    |
|          |         | 2440    | Reference          | -0.62             | -0.62       | ---        | PASS    |
|          |         |         | 30~3000            | -0.62             | -53.77      | ≤-20.62    | PASS    |
|          |         |         | 3000~26500         | -0.62             | -45.08      | ≤-20.62    | PASS    |
|          |         | 2480    | Reference          | -1.09             | -1.09       | ---        | PASS    |
|          |         |         | 30~3000            | -1.09             | -52.76      | ≤-21.09    | PASS    |
|          |         |         | 3000~26500         | -1.09             | -44.42      | ≤-21.09    | PASS    |



## LE\_1Mbps\_Ant1\_2402\_1000~26500



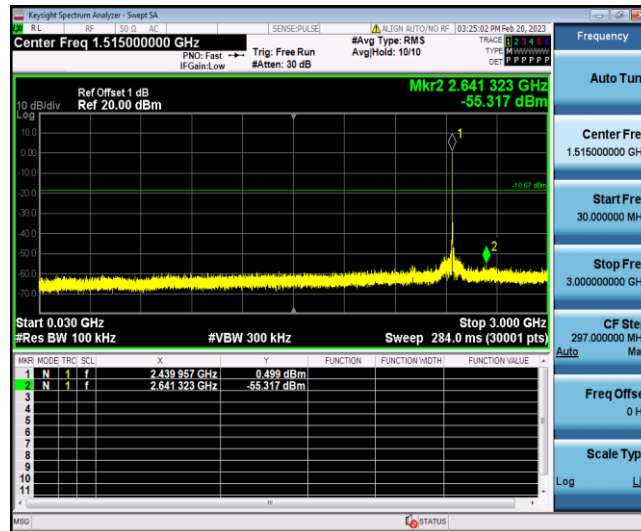
## LE\_1Mbps\_Ant1\_2402\_3000~26500



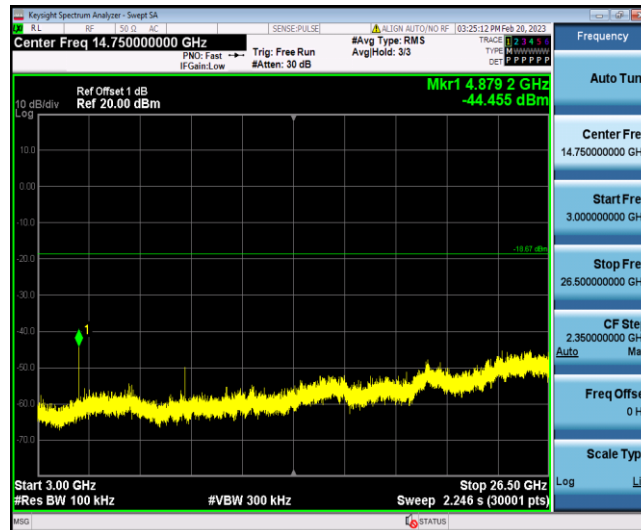
## LE\_1Mbps\_Ant1\_2440\_0~Reference



## LE\_1Mbps\_Ant1\_2440\_30~3000



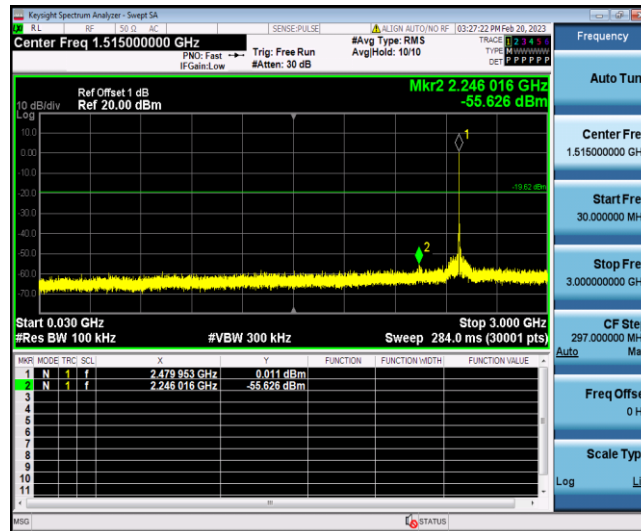
LE\_1Mbps\_Ant1\_2440\_3000~26500



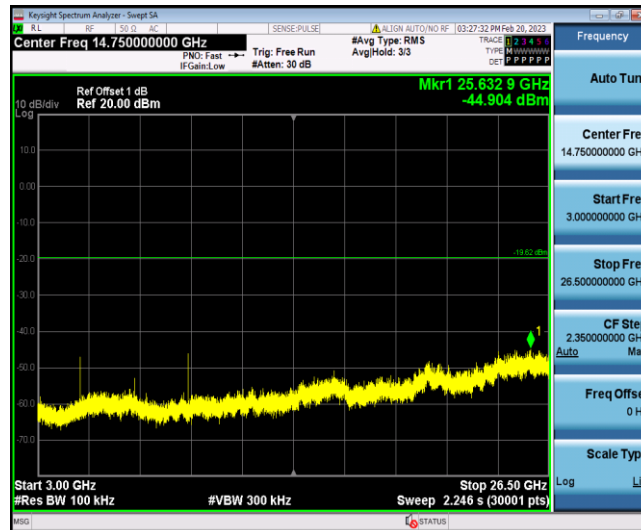
LE\_1Mbps\_Ant1\_2480\_0~Reference



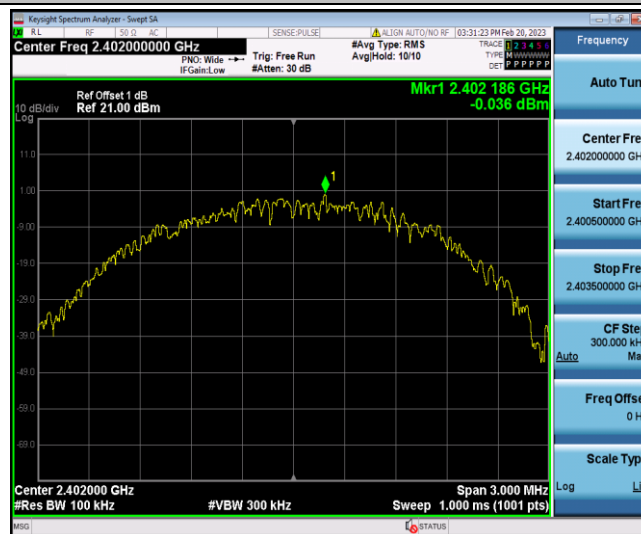
LE\_1Mbps\_Ant1\_2480\_30~3000



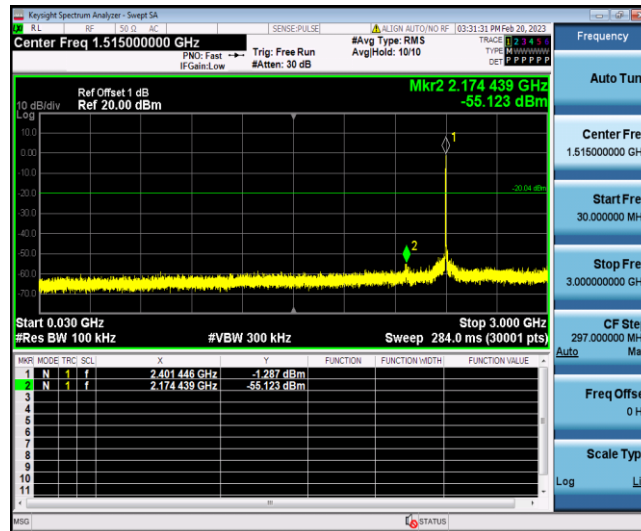
LE\_1Mbps\_Ant1\_2480\_3000~26500



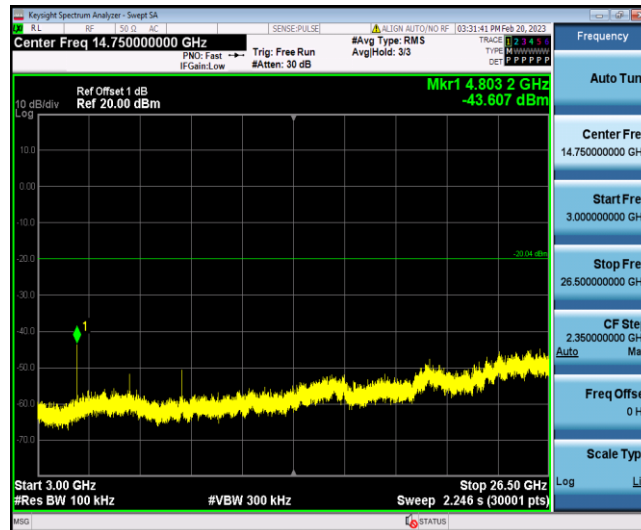
LE\_2Mbps\_Ant1\_2402\_0-Reference



LE\_2Mbps\_Ant1\_2402\_30~3000



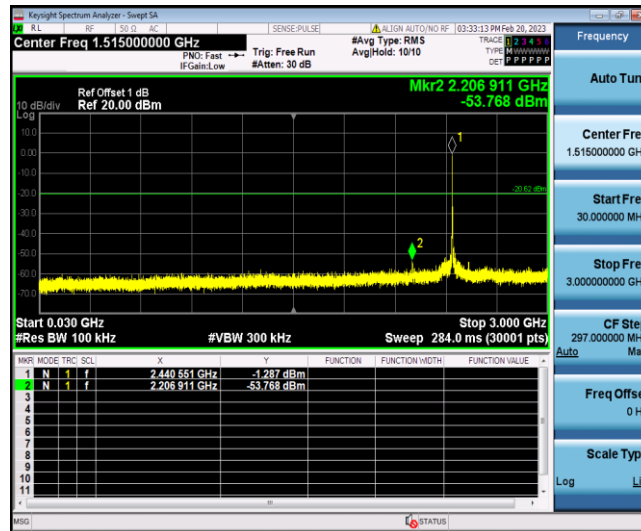
LE\_2Mbps\_Ant1\_2402\_3000~26500



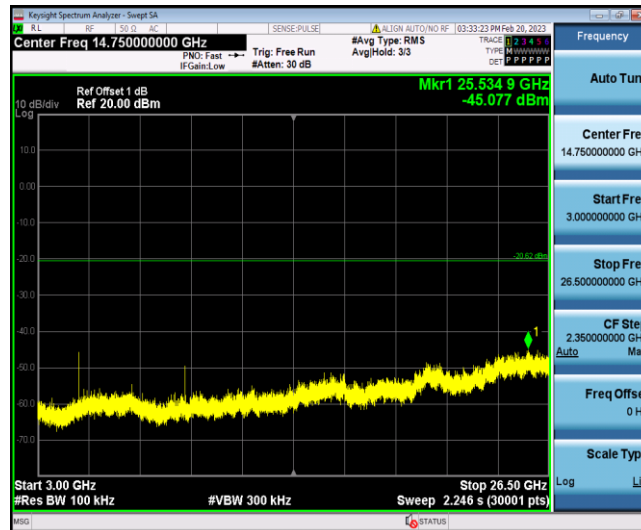
LE\_2Mbps\_Ant1\_2440\_0~Reference



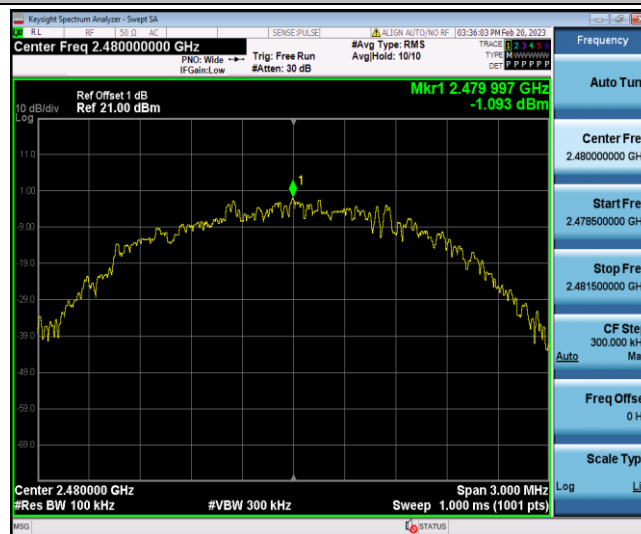
LE\_2Mbps\_Ant1\_2440\_30~3000



LE\_2Mbps\_Ant1\_2440\_3000~26500

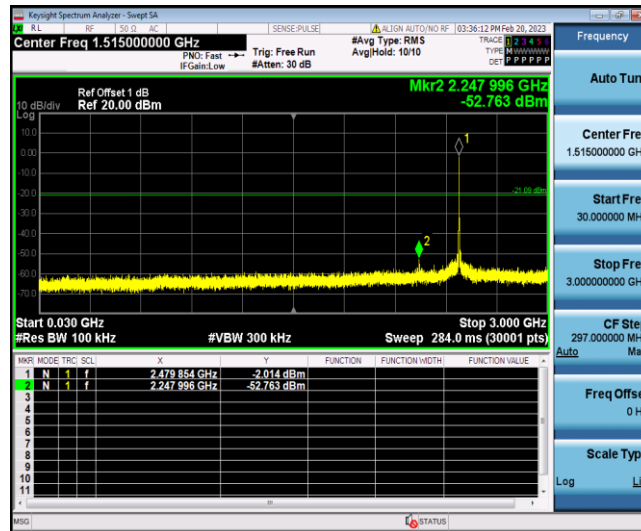


LE\_2Mbps\_Ant1\_2480\_0~Reference

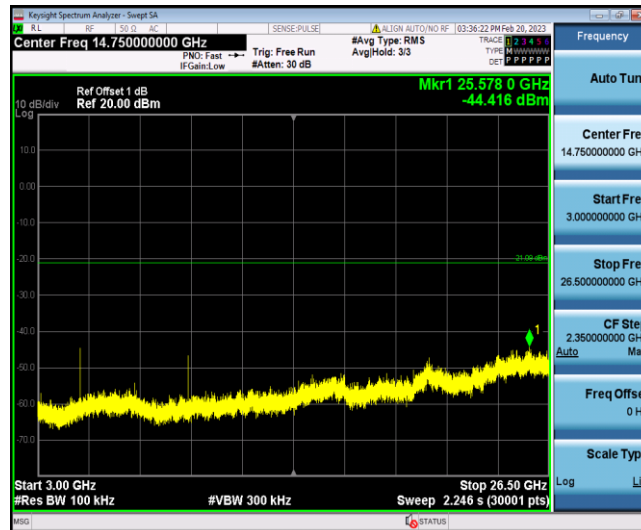


LE\_2Mbps\_Ant1\_2480\_30~3000





LE\_2Mbps\_Ant1\_2480\_3000~26500



\*\*\*\*\* End \*\*\*\*\*