



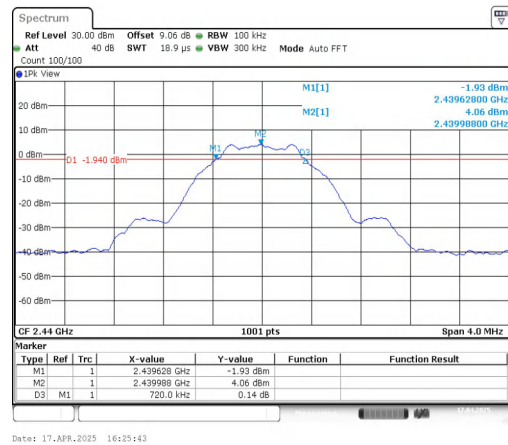
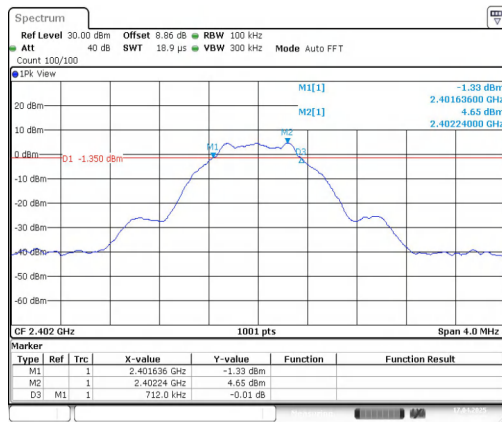
## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW<br>[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------------|---------|---------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.71            | 2401.64 | 2402.35 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.72            | 2439.63 | 2440.35 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.71            | 2479.64 | 2480.34 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.18            | 2401.40 | 2402.58 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.17            | 2439.41 | 2440.58 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.17            | 2479.41 | 2480.58 | 0.5        | PASS    |

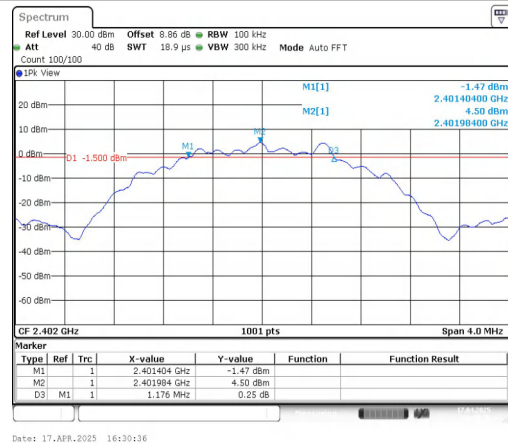
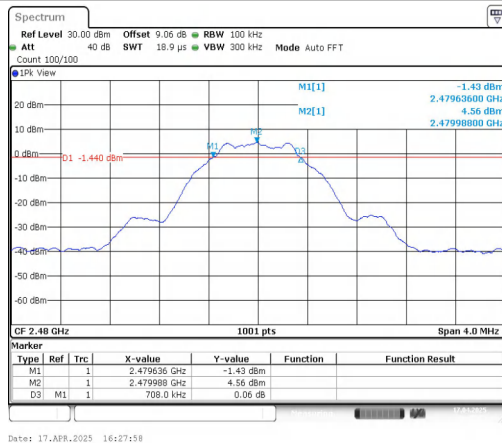


## Test Graphs



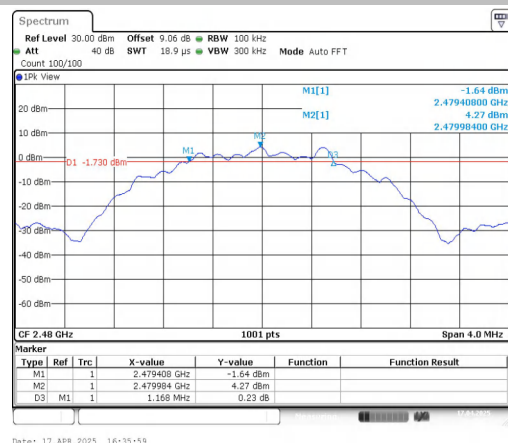
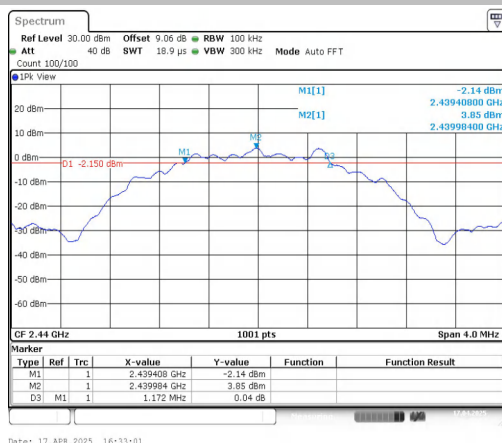
BLE\_1M-Ant1-2402-PASS

BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS

BLE\_2M-Ant1-2480-PASS



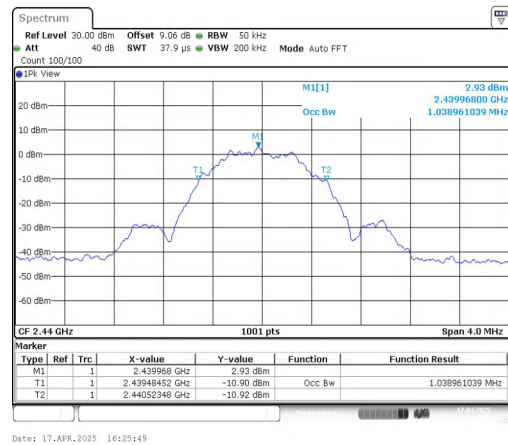
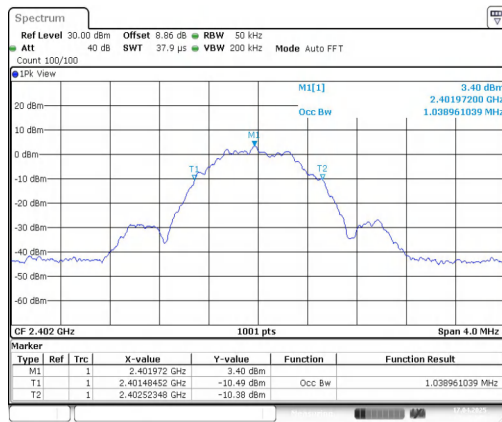
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402                   | 1.039     | 2401.4845 | 2402.5235 | ---        | ---     |
| BLE_1M    | Ant1    | 2440                   | 1.039     | 2439.4845 | 2440.5235 | ---        | ---     |
| BLE_1M    | Ant1    | 2480                   | 1.039     | 2479.4845 | 2480.5235 | ---        | ---     |
| BLE_2M    | Ant1    | 2402                   | 2.058     | 2400.9810 | 2403.0390 | ---        | ---     |
| BLE_2M    | Ant1    | 2440                   | 2.062     | 2438.9770 | 2441.0390 | ---        | ---     |
| BLE_2M    | Ant1    | 2480                   | 2.058     | 2478.9810 | 2481.0390 | ---        | ---     |

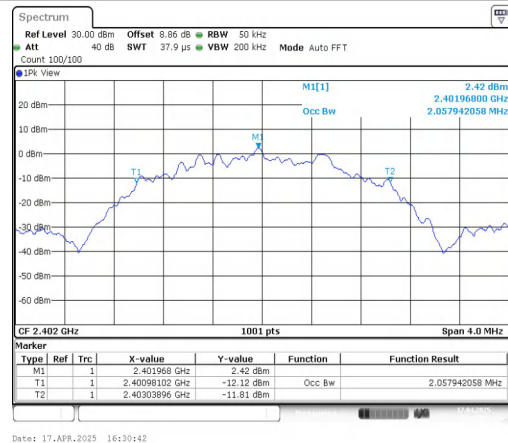
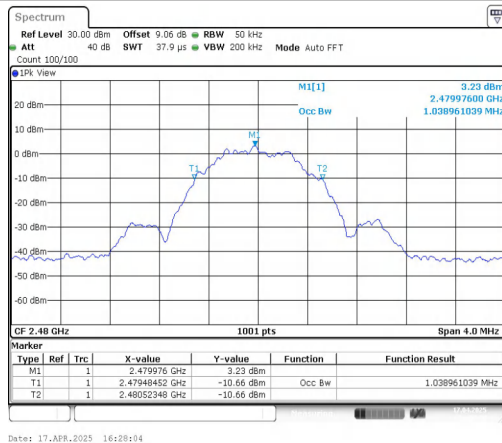


## Test Graphs



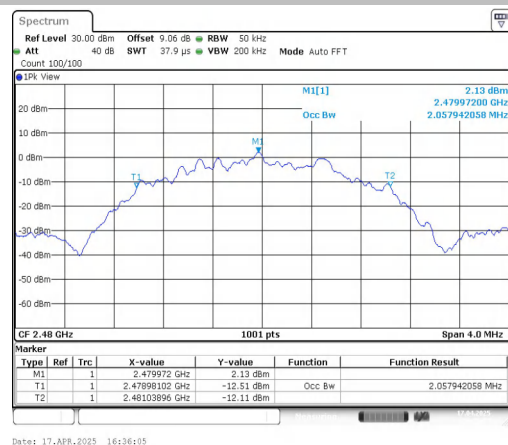
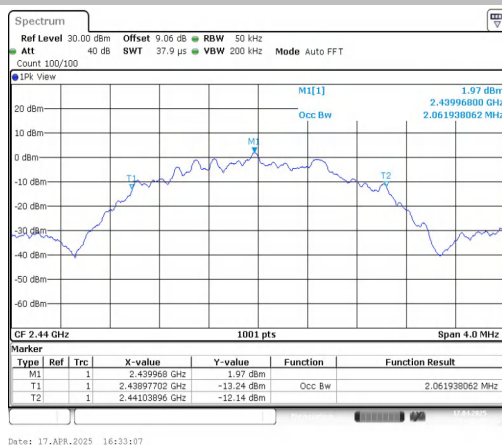
BLE\_1M-Ant1-2402

BLE\_1M-Ant1-2440



BLE\_1M-Ant1-2480

BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440

BLE\_2M-Ant1-2480



## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Peak Power [dBm] | Peak Powe Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|-----------------|------------------|-----------------------|------------|------------|------------------|---------|
| BLE_1M    | Ant1    | 2402            | 5.87             | ≤30.00                | 5.10       | 10.97      | --               | PASS    |
| BLE_1M    | Ant1    | 2440            | 5.24             | ≤30.00                | 5.10       | 10.34      | --               | PASS    |
| BLE_1M    | Ant1    | 2480            | 5.56             | ≤30.00                | 5.10       | 10.66      | --               | PASS    |
| BLE_2M    | Ant1    | 2402            | 5.86             | ≤30.00                | 5.10       | 10.96      | --               | PASS    |
| BLE_2M    | Ant1    | 2440            | 5.24             | ≤30.00                | 5.10       | 10.34      | --               | PASS    |
| BLE_2M    | Ant1    | 2480            | 5.57             | ≤30.00                | 5.10       | 10.67      | --               | PASS    |

### Test Result Average

| Test Mode                                | Antenna | Frequency [MHz] | Reading Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | AV Power [dBm] | AV Power Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|------------------------------------------|---------|-----------------|---------------------|----------------|-----------------|----------------|----------------------|------------|------------|------------------|---------|
| BLE_1M                                   | Ant1    | 2402            | 2.15                | 61.29          | 2.13            | 4.28           | ≤30.00               | 5.10       | 9.38       | --               | PASS    |
| BLE_1M                                   | Ant1    | 2440            | 2.09                | 61.29          | 2.13            | 4.22           | ≤30.00               | 5.10       | 9.32       | --               | PASS    |
| BLE_1M                                   | Ant1    | 2480            | 2.13                | 61.29          | 2.13            | 4.26           | ≤30.00               | 5.10       | 9.36       | --               | PASS    |
| BLE_2M                                   | Ant1    | 2402            | 1.86                | 56.91          | 2.45            | 4.31           | ≤30.00               | 5.10       | 9.41       | --               | PASS    |
| BLE_2M                                   | Ant1    | 2440            | 1.75                | 56.91          | 2.45            | 4.20           | ≤30.00               | 5.10       | 9.30       | --               | PASS    |
| BLE_2M                                   | Ant1    | 2480            | 1.82                | 56.91          | 2.45            | 4.27           | ≤30.00               | 5.10       | 9.37       | --               | PASS    |
| AV Power [dBm]= Reading power +DC Factor |         |                 |                     |                |                 |                |                      |            |            |                  |         |



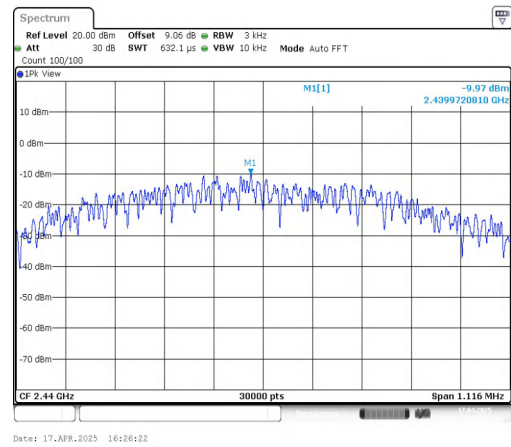
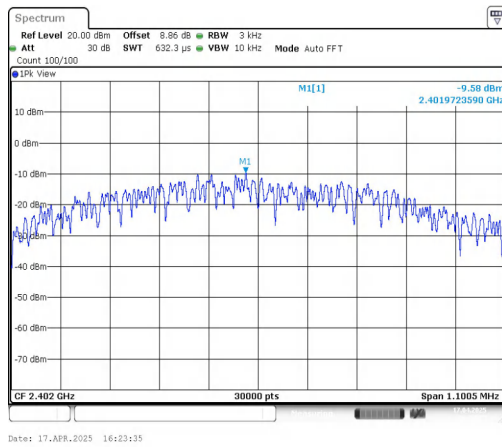
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -9.58            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -9.97            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -9.73            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -13.08           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -13.62           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -13.32           | ≤8.00           | PASS    |

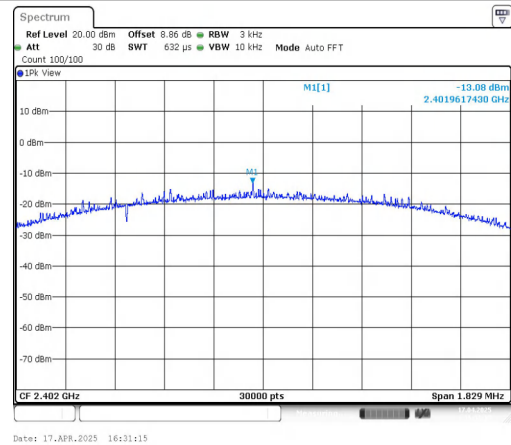
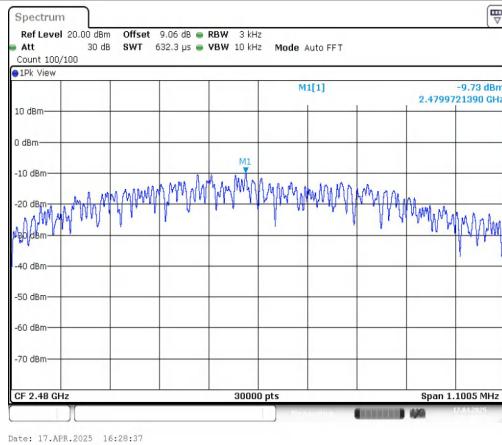


## Test Graphs



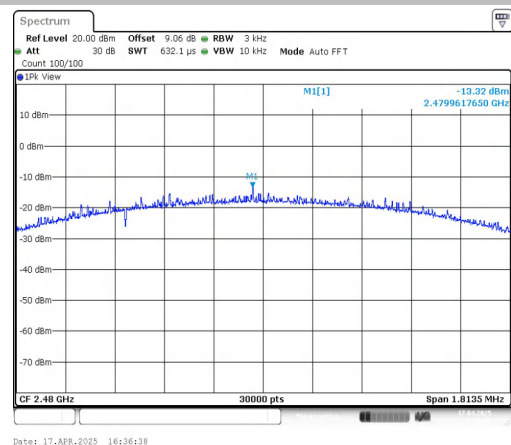
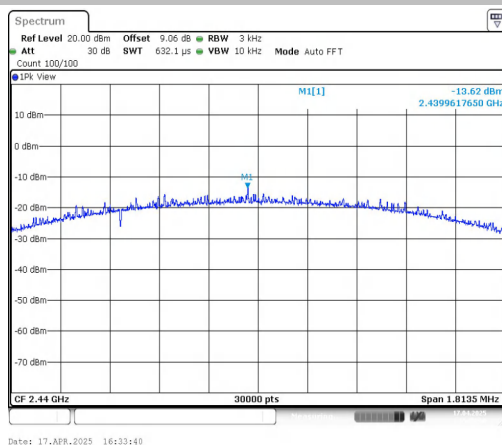
BLE\_1M-Ant1-2402-PASS

BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS

BLE\_2M-Ant1-2480-PASS



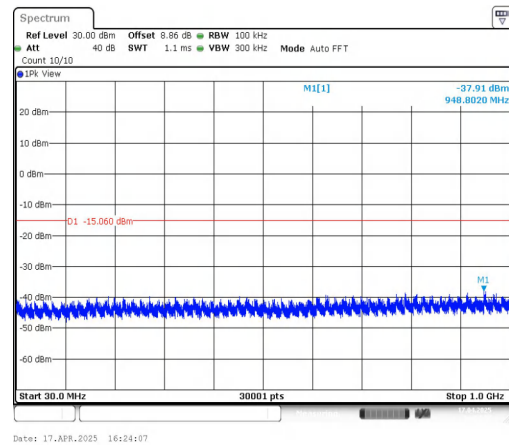
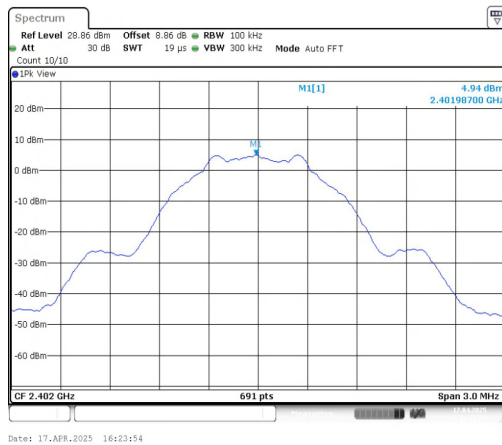
## Appendix E: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|------------------|-----------------|--------------|-------------|---------|
| BLE_1M   | Ant1    | 2402           | 0~Reference      | 4.94            | 4.94         | ---         | PASS    |
| BLE_1M   | Ant1    | 2402           | 30~1000          | 4.94            | -37.91       | ≤-15.06     | PASS    |
| BLE_1M   | Ant1    | 2402           | 1000~26500       | 4.94            | -27.08       | ≤-15.06     | PASS    |
| BLE_1M   | Ant1    | 2440           | 0~Reference      | 4.46            | 4.46         | ---         | PASS    |
| BLE_1M   | Ant1    | 2440           | 30~1000          | 4.46            | -37.92       | ≤-15.54     | PASS    |
| BLE_1M   | Ant1    | 2440           | 1000~26500       | 4.46            | -26.85       | ≤-15.54     | PASS    |
| BLE_1M   | Ant1    | 2480           | 0~Reference      | 4.82            | 4.82         | ---         | PASS    |
| BLE_1M   | Ant1    | 2480           | 30~1000          | 4.82            | -37.9        | ≤-15.18     | PASS    |
| BLE_1M   | Ant1    | 2480           | 1000~26500       | 4.82            | -26.27       | ≤-15.18     | PASS    |
| BLE_2M   | Ant1    | 2402           | 0~Reference      | 4.71            | 4.71         | ---         | PASS    |
| BLE_2M   | Ant1    | 2402           | 30~1000          | 4.71            | -38.7        | ≤-15.29     | PASS    |
| BLE_2M   | Ant1    | 2402           | 1000~26500       | 4.71            | -27.05       | ≤-15.29     | PASS    |
| BLE_2M   | Ant1    | 2440           | 0~Reference      | 4.15            | 4.15         | ---         | PASS    |
| BLE_2M   | Ant1    | 2440           | 30~1000          | 4.15            | -38.06       | ≤-15.85     | PASS    |
| BLE_2M   | Ant1    | 2440           | 1000~26500       | 4.15            | -26.63       | ≤-15.85     | PASS    |
| BLE_2M   | Ant1    | 2480           | 0~Reference      | 4.67            | 4.67         | ---         | PASS    |
| BLE_2M   | Ant1    | 2480           | 30~1000          | 4.67            | -37.98       | ≤-15.33     | PASS    |
| BLE_2M   | Ant1    | 2480           | 1000~26500       | 4.67            | -27.31       | ≤-15.33     | PASS    |

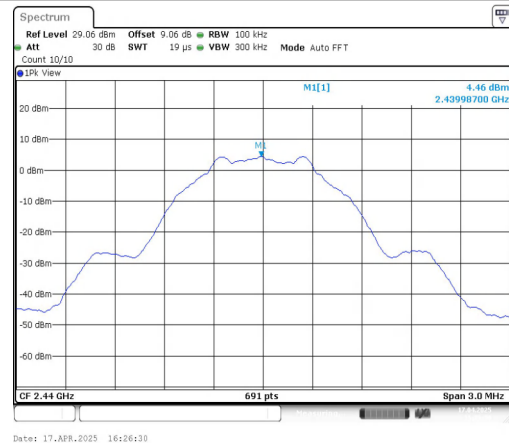
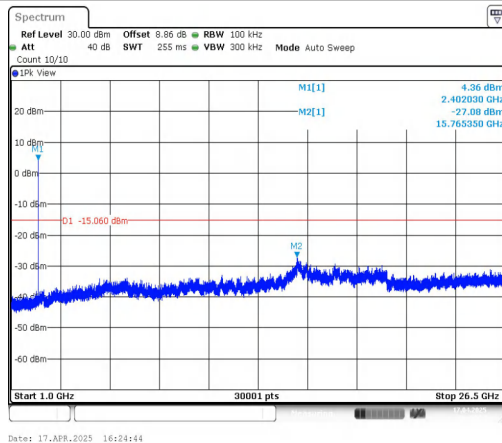


## Test Graphs



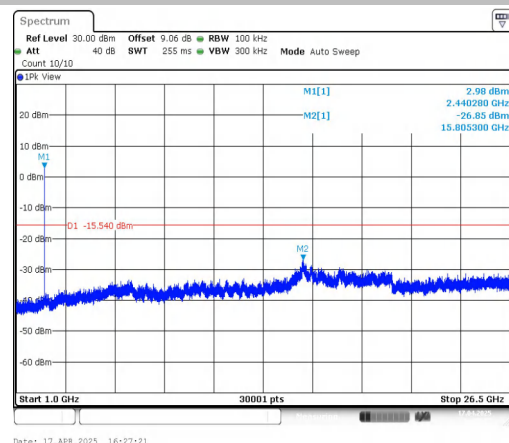
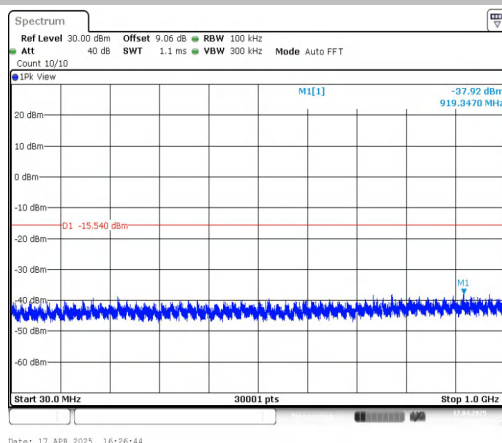
BLE\_1M-Ant1-2402-0~Reference-PASS

BLE\_1M-Ant1-2402-30~1000-PASS



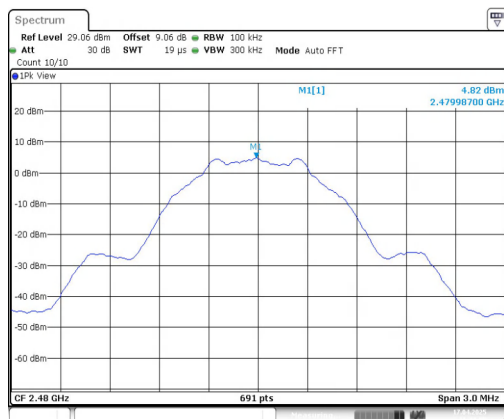
BLE\_1M-Ant1-2402-1000~26500-PASS

BLE\_1M-Ant1-2440-0~Reference-PASS

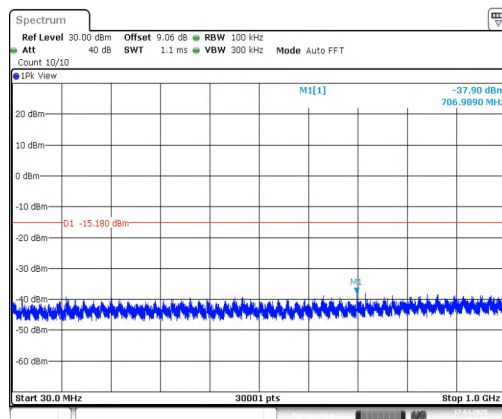


BLE\_1M-Ant1-2440-30~1000-PASS

BLE\_1M-Ant1-2440-1000~26500-PASS



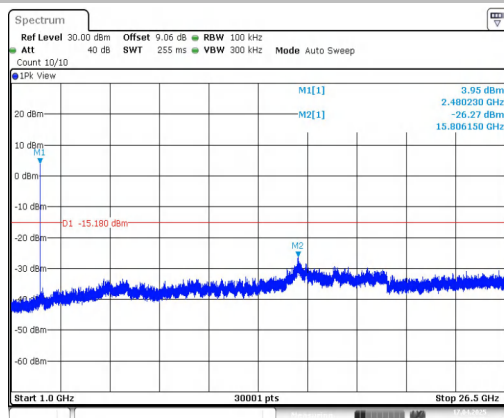
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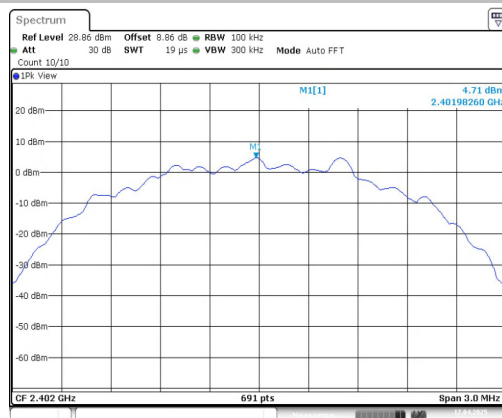
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BLE\_1M-Ant1-2480-0~Reference-PASS

BLE\_1M-Ant1-2480-30~1000-PASS



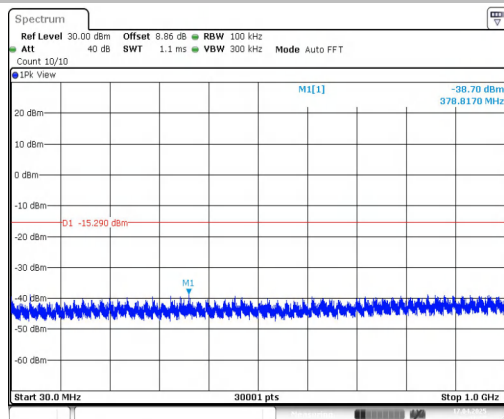
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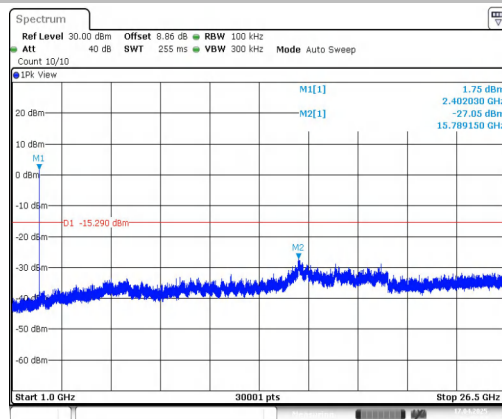
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BLE\_1M-Ant1-2480-1000~26500-PASS

BLE\_2M-Ant1-2402-0~Reference-PASS



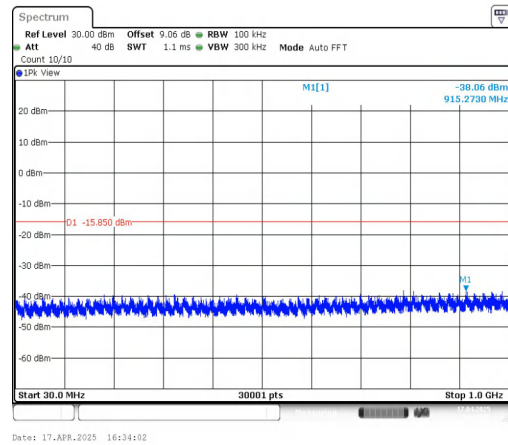
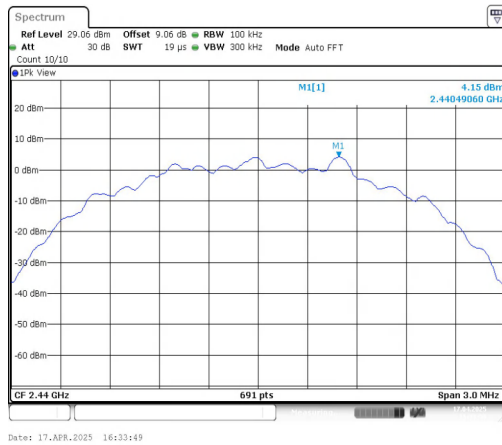
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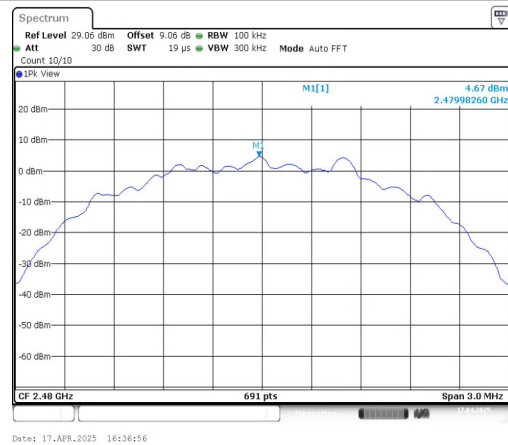
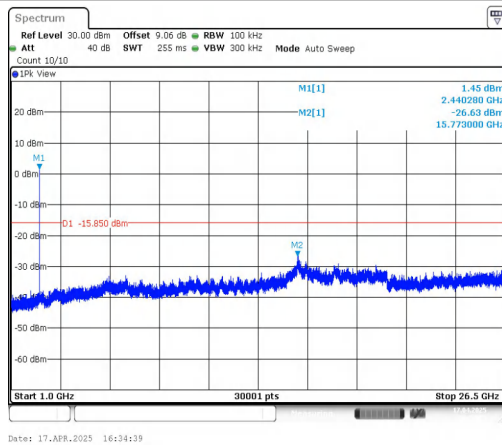
BLE\_2M-Ant1-2402-30~1000-PASS

BLE\_2M-Ant1-2402-1000~26500-PASS



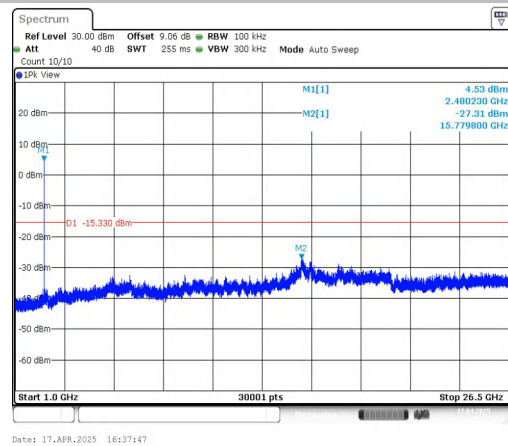
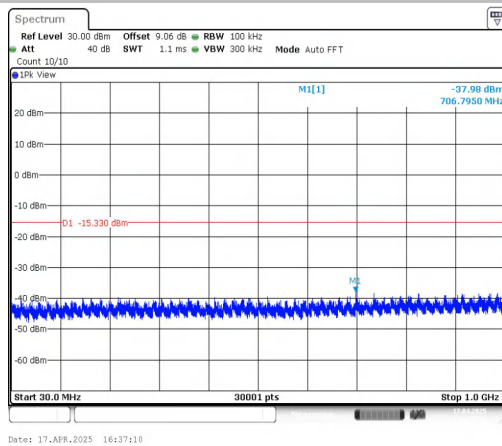
BLE\_2M-Ant1-2440-0~Reference-PASS

BLE\_2M-Ant1-2440-30~1000-PASS



BLE\_2M-Ant1-2440-1000~26500-PASS

BLE\_2M-Ant1-2480-0~Reference-PASS



BLE\_2M-Ant1-2480-30~1000-PASS

BLE\_2M-Ant1-2480-1000~26500-PASS



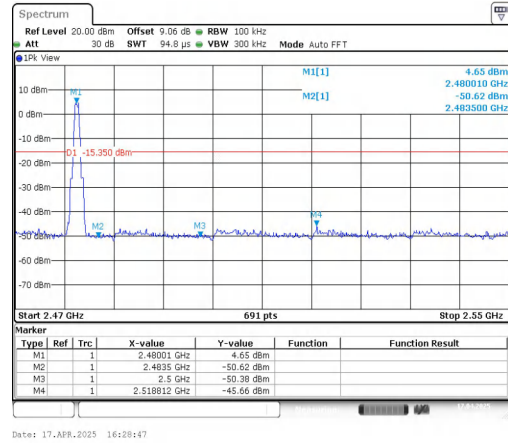
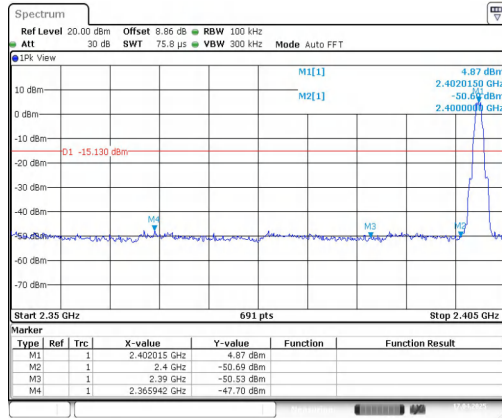
## Appendix F: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | Ref Level[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|----------------|----------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | Low    | 2402           | 4.87           | -47.7       | $\leq -15.13$ | PASS    |
| BLE_1M   | Ant1    | High   | 2480           | 4.65           | -45.66      | $\leq -15.35$ | PASS    |
| BLE_2M   | Ant1    | Low    | 2402           | 4.74           | -27.01      | $\leq -15.26$ | PASS    |
| BLE_2M   | Ant1    | High   | 2480           | 4.51           | -46         | $\leq -15.49$ | PASS    |

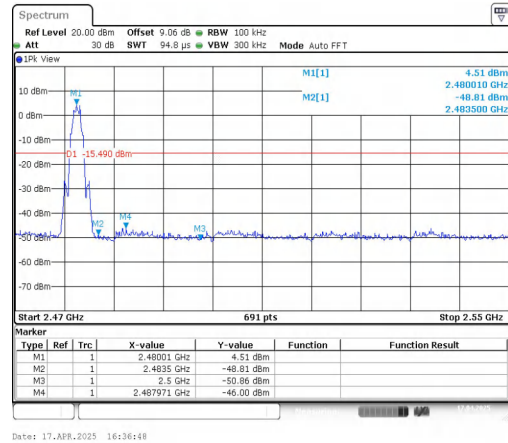
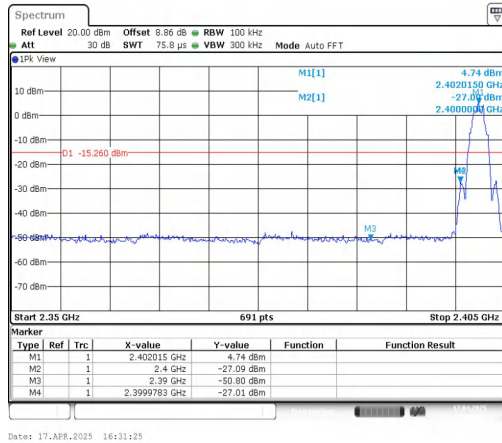


## Test Graphs



BLE\_1M-Ant1-2402-PASS

BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS

BLE\_2M-Ant1-2480-PASS



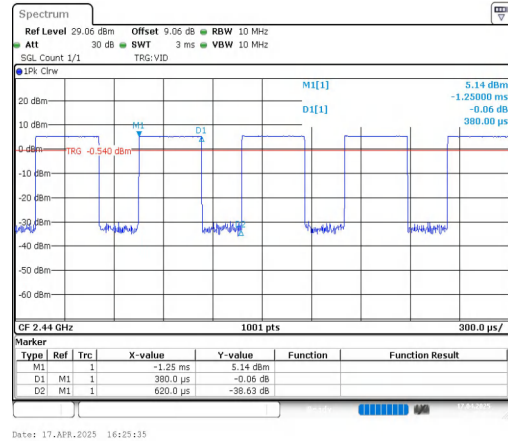
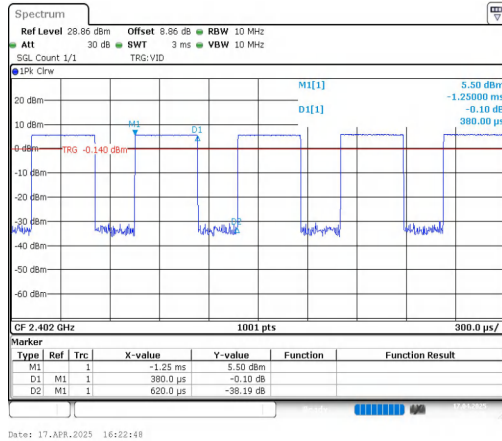
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] |
|----------|---------|----------------|-------------------------------|-----------------------------|-------------------|
| BLE_1M   | Ant1    | 2402           | 0.38                          | 0.62                        | 61.29             |
| BLE_1M   | Ant1    | 2440           | 0.38                          | 0.62                        | 61.29             |
| BLE_1M   | Ant1    | 2480           | 0.38                          | 0.62                        | 61.29             |
| BLE_2M   | Ant1    | 2402           | 1.07                          | 1.88                        | 56.91             |
| BLE_2M   | Ant1    | 2440           | 1.07                          | 1.88                        | 56.91             |
| BLE_2M   | Ant1    | 2480           | 1.07                          | 1.88                        | 56.91             |

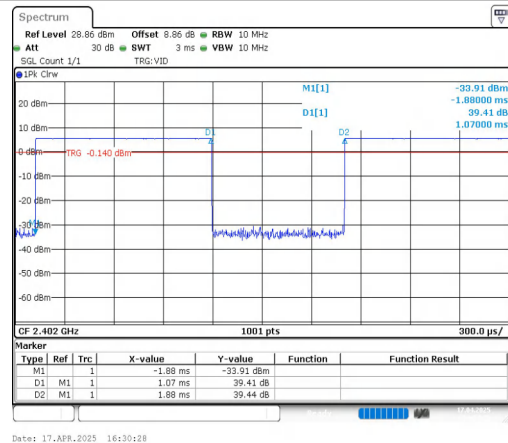
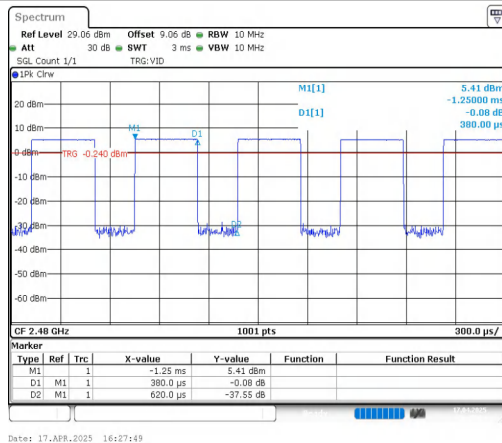


## Test Graphs



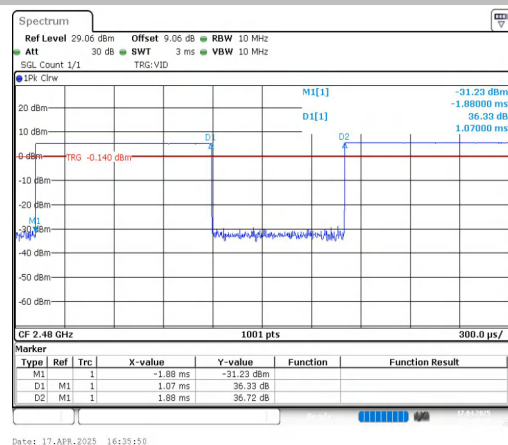
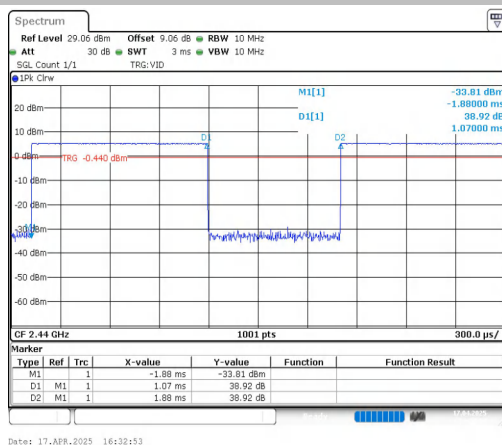
NTNV-BLE\_1M-Ant1-2402

NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440

NTNV-BLE\_2M-Ant1-2480

-----END-----