



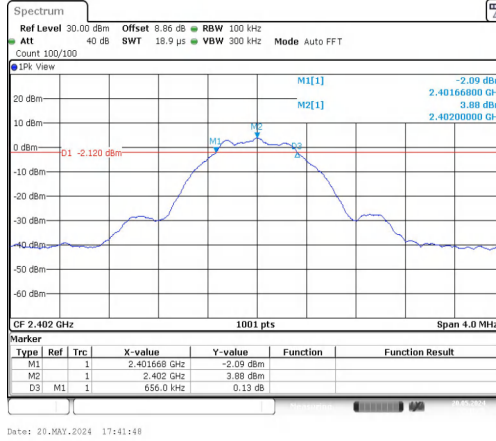
Appendix A: 6dB Bandwidth

Test Result

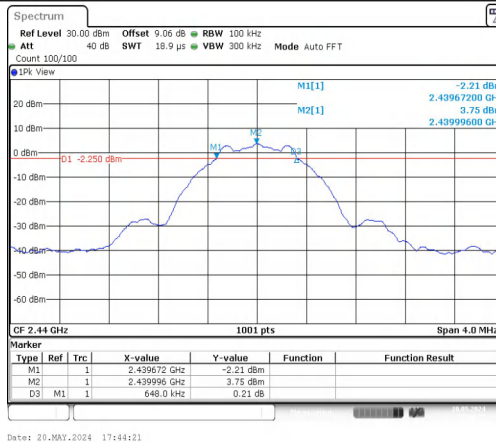
| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.66 | 2401.67 | 2402.32 | 0.5 | PASS |
| BLE_1M | Ant1 | 2440 | 0.65 | 2439.67 | 2440.32 | 0.5 | PASS |
| BLE_1M | Ant1 | 2480 | 0.66 | 2479.67 | 2480.32 | 0.5 | PASS |
| BLE_2M | Ant1 | 2402 | 1.11 | 2401.45 | 2402.56 | 0.5 | PASS |
| BLE_2M | Ant1 | 2440 | 1.11 | 2439.45 | 2440.56 | 0.5 | PASS |
| BLE_2M | Ant1 | 2480 | 1.12 | 2479.44 | 2480.56 | 0.5 | PASS |



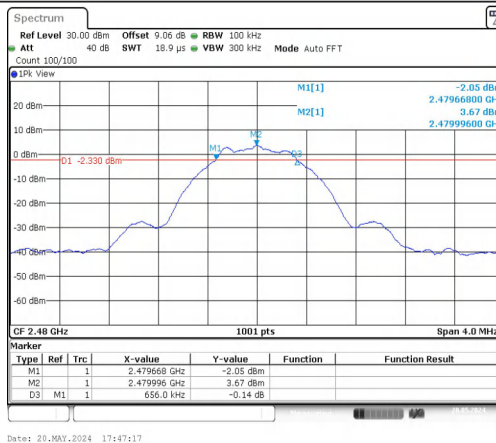
Test Graphs



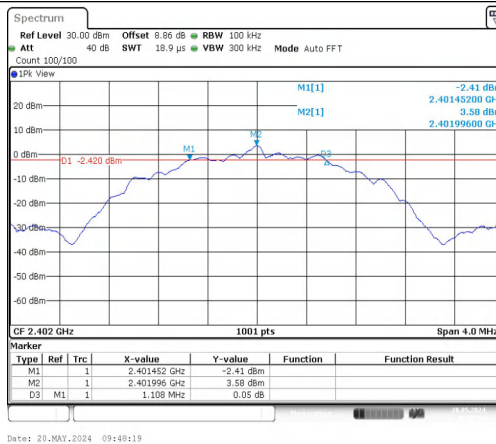
BLE_1M-Ant1-2402-PASS



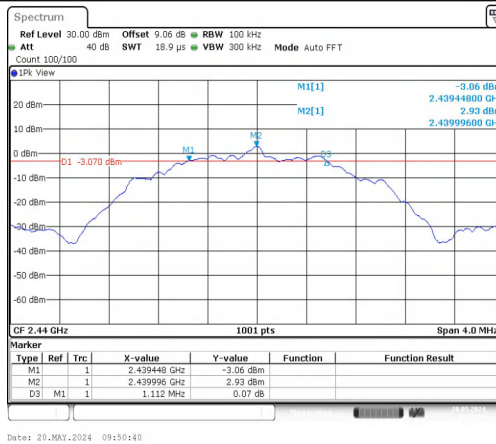
BLE_1M-Ant1-2444-PASS



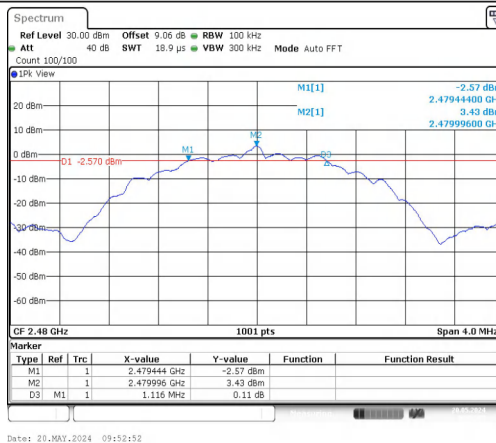
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



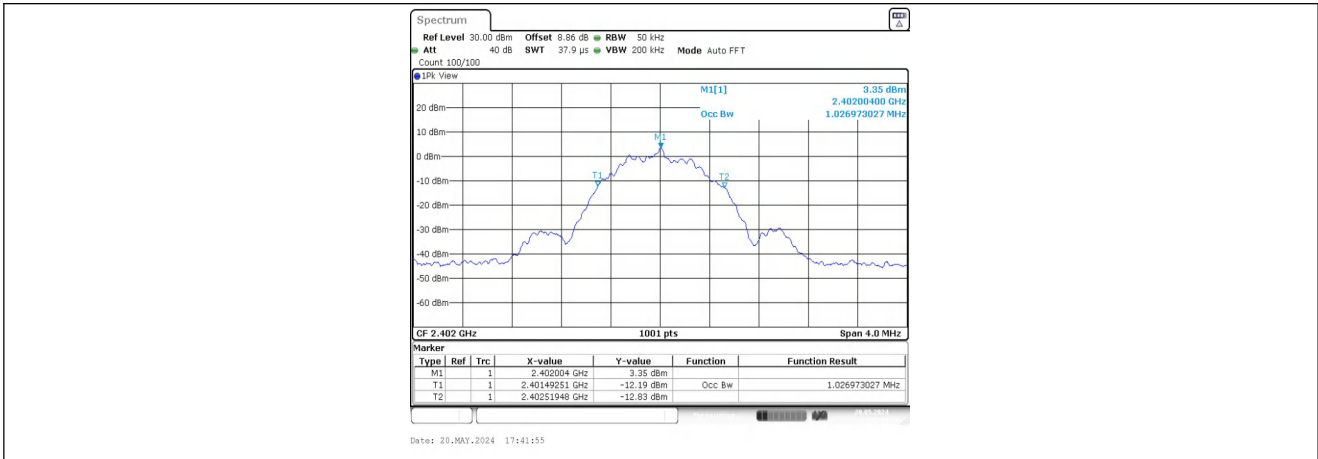
Appendix B: Occupied Channel Bandwidth

Test Result

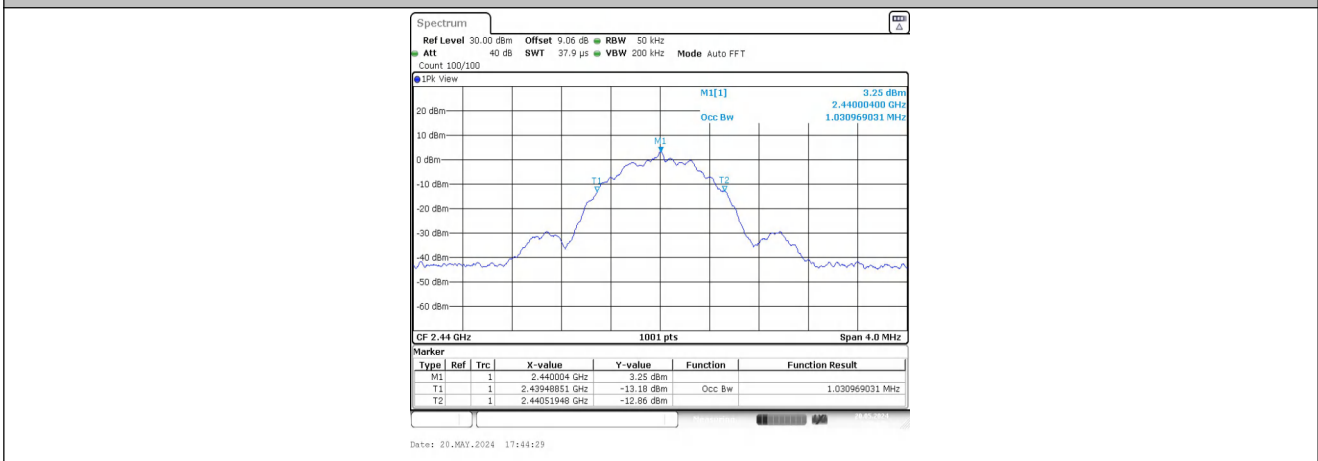
| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.027 | 2401.4925 | 2402.5195 | --- | --- |
| BLE_1M | Ant1 | 2440 | 1.031 | 2439.4885 | 2440.5195 | --- | --- |
| BLE_1M | Ant1 | 2480 | 1.031 | 2479.4885 | 2480.5195 | --- | --- |
| BLE_2M | Ant1 | 2402 | 2.066 | 2400.9770 | 2403.0430 | --- | --- |
| BLE_2M | Ant1 | 2440 | 2.054 | 2438.9850 | 2441.0390 | --- | --- |
| BLE_2M | Ant1 | 2480 | 2.066 | 2478.9770 | 2481.0430 | --- | --- |



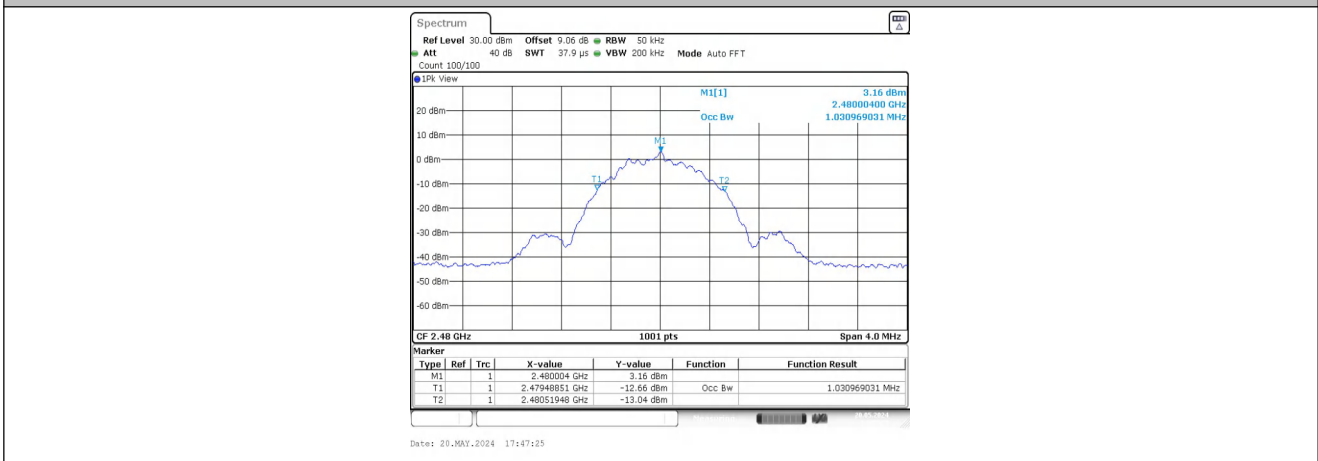
Test Graphs



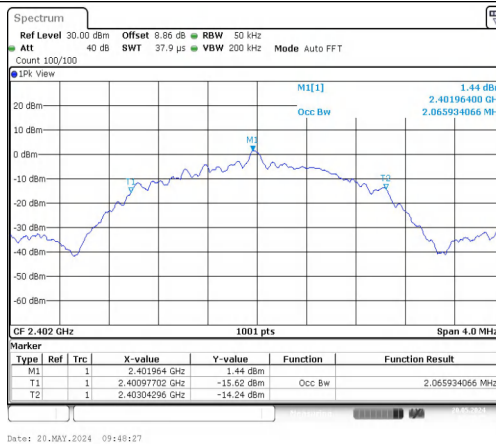
BLE_1M-Ant1-2402



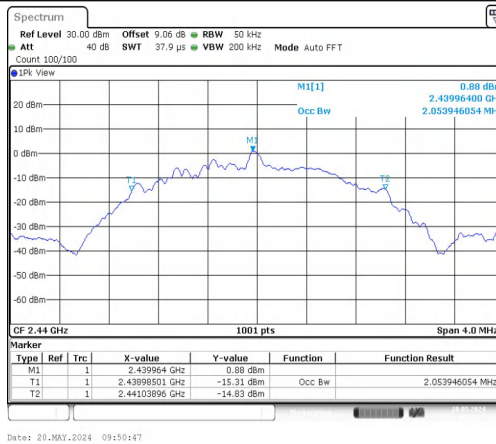
BLE_1M-Ant1-2440



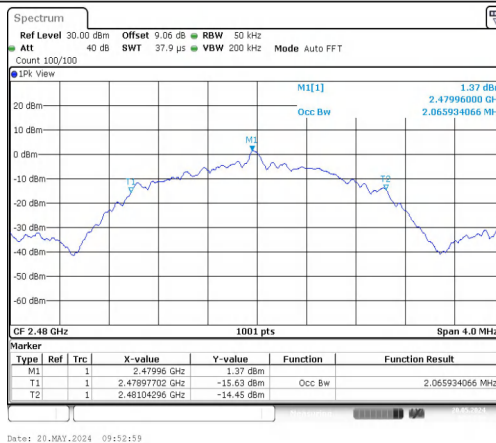
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



Appendix C: Maximum conducted output power

Test Result Peak

| TestMode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Gain [dBi] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|----------|---------|-----------------|---------------------------|----------------------|------------|-----------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | 4.11 | ≤30 | 3.56 | 7.66 | -- | PASS |
| BLE_1M | Ant1 | 2440 | 3.99 | ≤30 | 3.56 | 7.55 | -- | PASS |
| BLE_1M | Ant1 | 2480 | 3.91 | ≤30 | 3.56 | 7.47 | -- | PASS |
| BLE_2M | Ant1 | 2402 | 3.94 | ≤30 | 3.56 | 7.50 | -- | PASS |
| BLE_2M | Ant1 | 2440 | 3.25 | ≤30 | 3.56 | 6.81 | -- | PASS |
| BLE_2M | Ant1 | 2480 | 3.63 | ≤30 | 3.56 | 7.19 | -- | PASS |

Test Result Average

| Test Mode | Antenna | Frequency [MHz] | Average power [dBm] | Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|-----------------|---------------------|-------------|------------|------------|------------------|---------|
| BLE_1M | Ant1 | 2402 | 2.95 | ≤30.00 | 3.56 | 6.51 | -- | PASS |
| BLE_1M | Ant1 | 2440 | 3.34 | ≤30.00 | 3.56 | 6.90 | -- | PASS |
| BLE_1M | Ant1 | 2480 | 3.40 | ≤30.00 | 3.56 | 6.96 | -- | PASS |
| BLE_2M | Ant1 | 2402 | 2.15 | ≤30.00 | 3.56 | 5.71 | -- | PASS |
| BLE_2M | Ant1 | 2440 | 2.13 | ≤30.00 | 3.56 | 5.69 | -- | PASS |
| BLE_2M | Ant1 | 2480 | 2.68 | ≤30.00 | 3.56 | 6.24 | -- | PASS |



Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -11.41 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2440 | -10.10 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2480 | -11.96 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2402 | -14.04 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2440 | -13.69 | ≤8.00 | PASS |
| BLE_2M | Ant1 | 2480 | -14.38 | ≤8.00 | PASS |



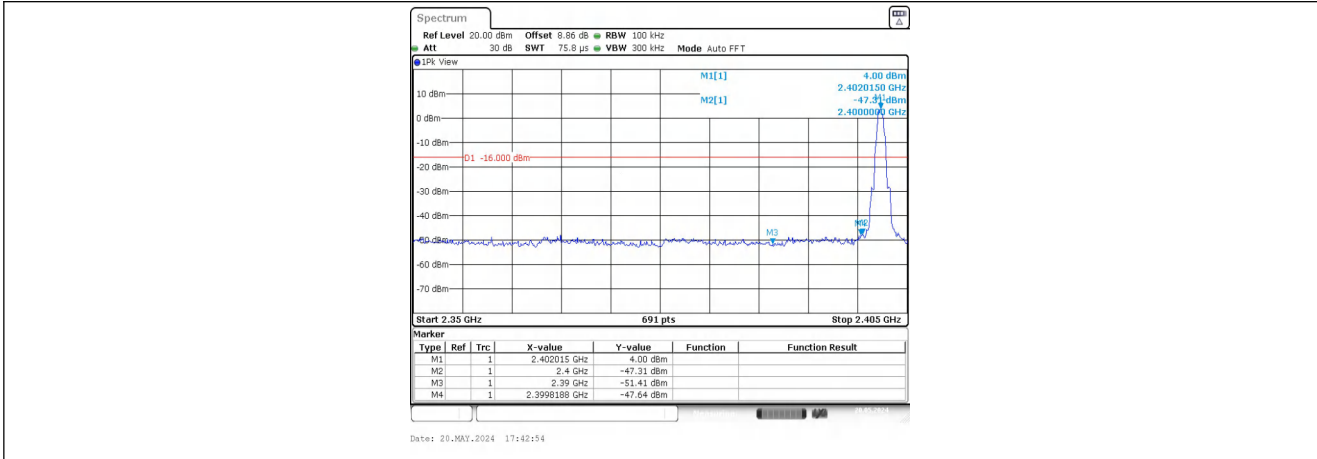
Appendix F: Band edge measurements

Test Result

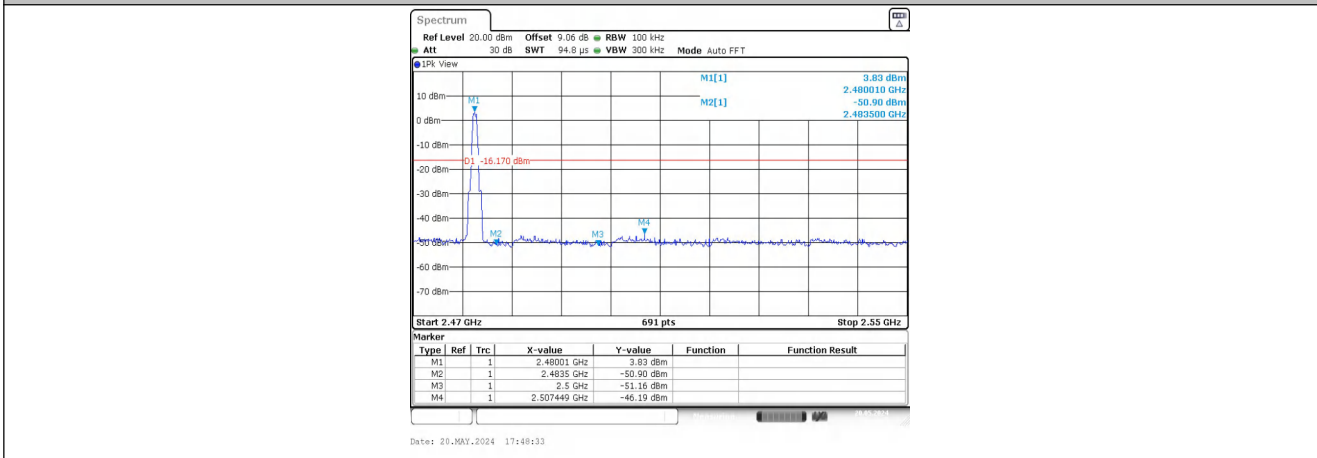
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 4.00 | -47.64 | ≤-16 | PASS |
| BLE_1M | Ant1 | High | 2480 | 3.83 | -46.19 | ≤-16.17 | PASS |
| BLE_2M | Ant1 | Low | 2402 | 3.72 | -29.59 | ≤-16.28 | PASS |
| BLE_2M | Ant1 | High | 2480 | 3.65 | -46.91 | ≤-16.35 | PASS |



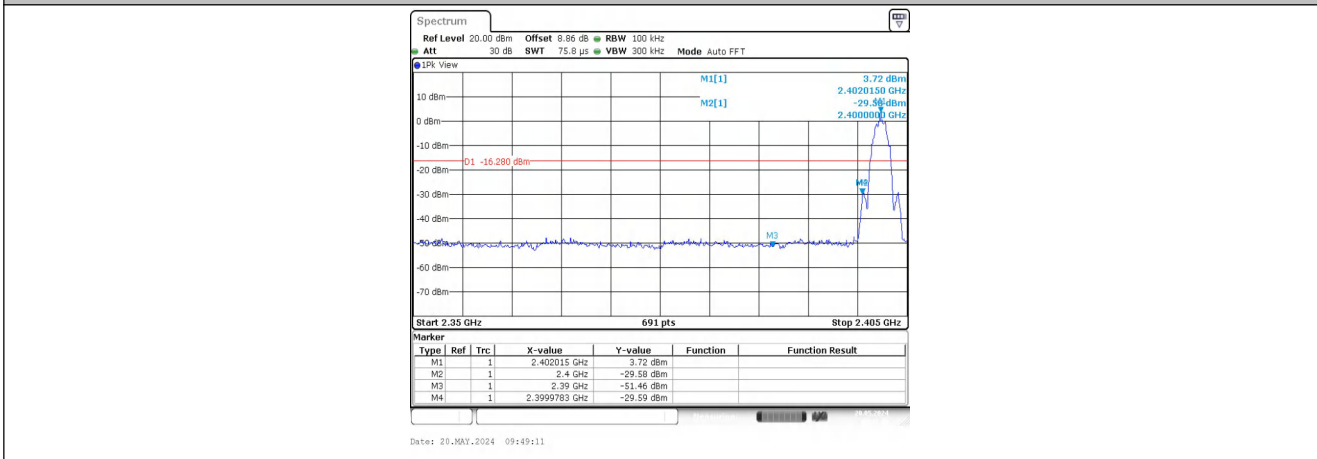
Test Graphs



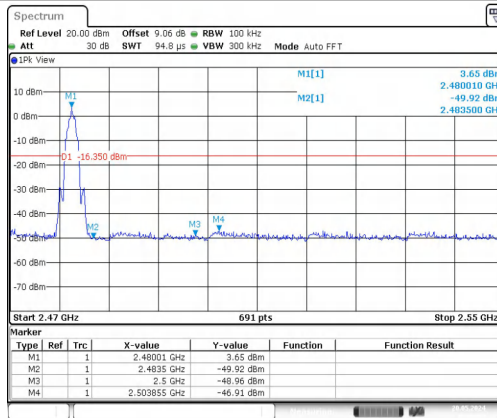
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS



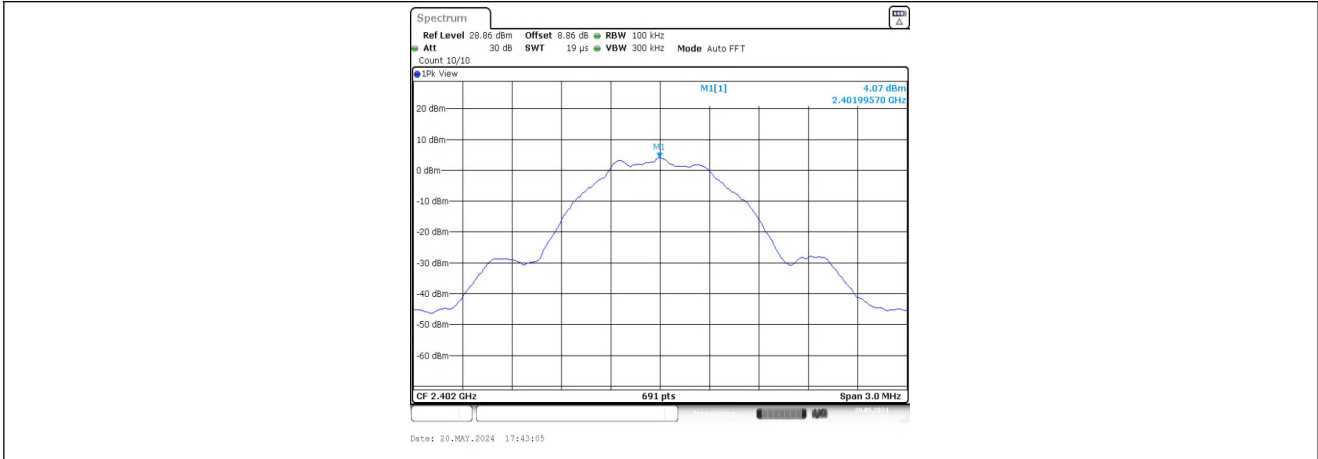
Appendix G: Out of band Emission

Test Result

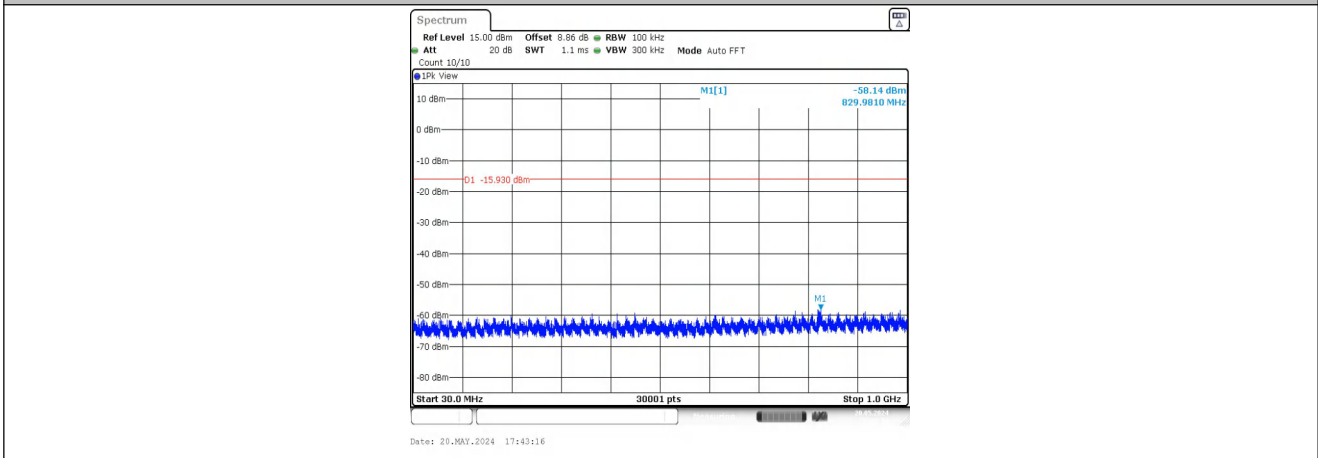
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0~Reference | 4.07 | 4.07 | --- | PASS |
| BLE_1M | Ant1 | 2402 | 30~1000 | 4.07 | -58.14 | ≤-15.93 | PASS |
| BLE_1M | Ant1 | 2402 | 1000~26500 | 4.07 | -47.45 | ≤-15.93 | PASS |
| BLE_1M | Ant1 | 2440 | 0~Reference | 3.94 | 3.94 | --- | PASS |
| BLE_1M | Ant1 | 2440 | 30~1000 | 3.94 | -55.67 | ≤-16.06 | PASS |
| BLE_1M | Ant1 | 2440 | 1000~26500 | 3.94 | -47.65 | ≤-16.06 | PASS |
| BLE_1M | Ant1 | 2480 | 0~Reference | 3.85 | 3.85 | --- | PASS |
| BLE_1M | Ant1 | 2480 | 30~1000 | 3.85 | -58 | ≤-16.15 | PASS |
| BLE_1M | Ant1 | 2480 | 1000~26500 | 3.85 | -46.89 | ≤-16.15 | PASS |
| BLE_2M | Ant1 | 2402 | 0~Reference | 3.80 | 3.80 | --- | PASS |
| BLE_2M | Ant1 | 2402 | 30~1000 | 3.80 | -58.1 | ≤-16.2 | PASS |
| BLE_2M | Ant1 | 2402 | 1000~26500 | 3.80 | -46.26 | ≤-16.2 | PASS |
| BLE_2M | Ant1 | 2440 | 0~Reference | 3.15 | 3.15 | --- | PASS |
| BLE_2M | Ant1 | 2440 | 30~1000 | 3.15 | -58.09 | ≤-16.85 | PASS |
| BLE_2M | Ant1 | 2440 | 1000~26500 | 3.15 | -46.91 | ≤-16.85 | PASS |
| BLE_2M | Ant1 | 2480 | 0~Reference | 3.58 | 3.58 | --- | PASS |
| BLE_2M | Ant1 | 2480 | 30~1000 | 3.58 | -56.51 | ≤-16.42 | PASS |
| BLE_2M | Ant1 | 2480 | 1000~26500 | 3.58 | -45.72 | ≤-16.42 | PASS |



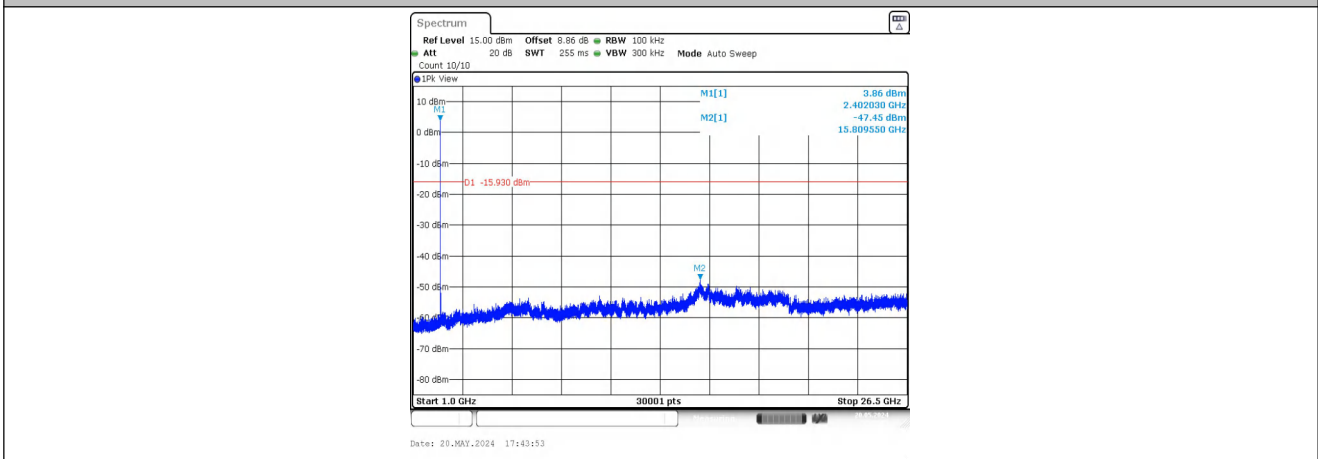
Test Graphs



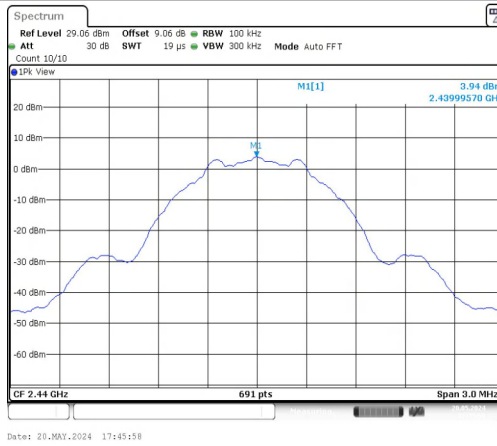
BLE_1M-Ant1-2402-0~Reference-PASS



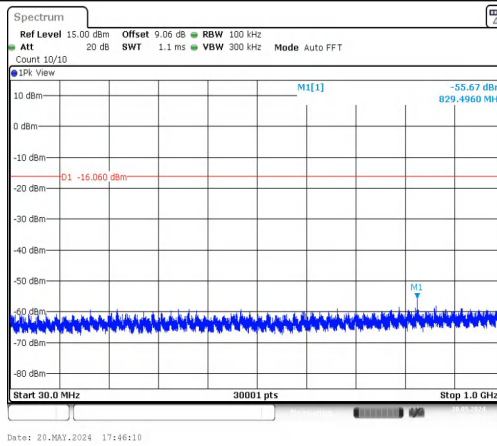
BLE_1M-Ant1-2402-30~1000-PASS



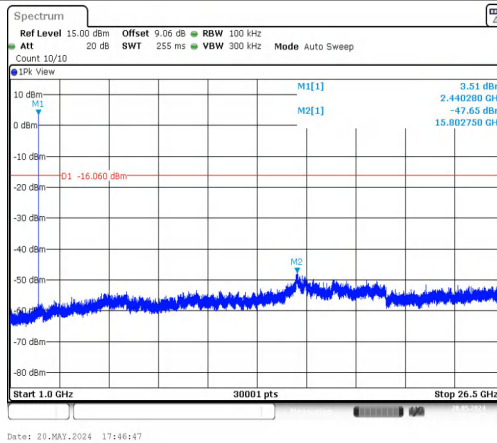
BLE_1M-Ant1-2402-1000~26500-PASS



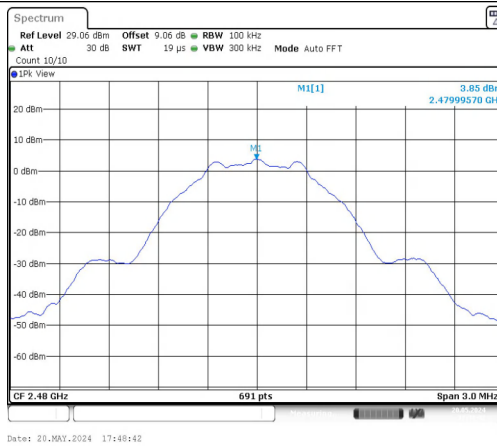
BLE_1M-Ant1-2440-0~Reference-PASS



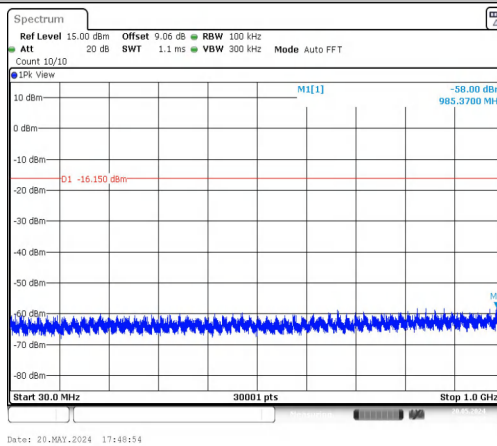
BLE_1M-Ant1-2440-30~1000-PASS



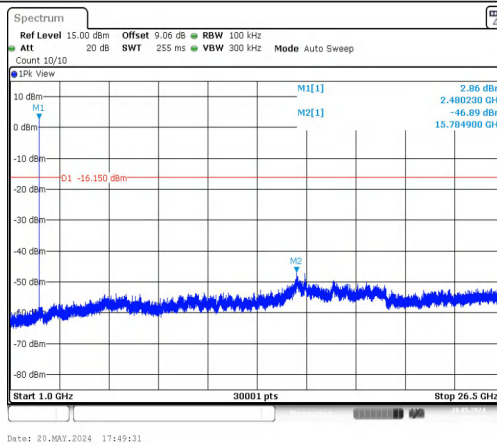
BLE_1M-Ant1-2440-1000~26500-PASS



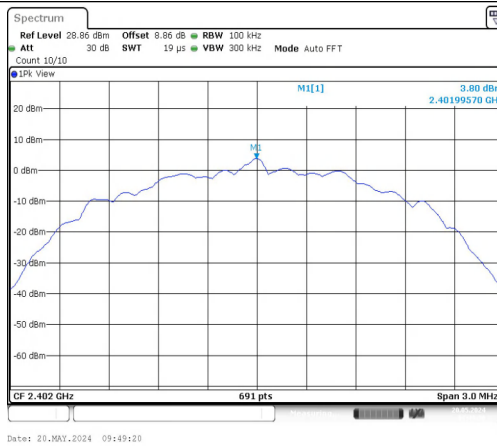
BLE_1M-Ant1-2480-0~Reference-PASS



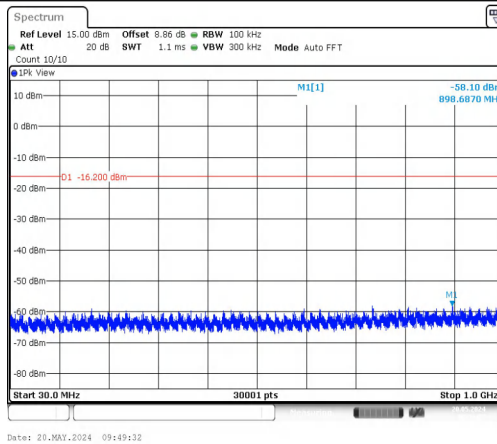
BLE_1M-Ant1-2480-30~1000-PASS



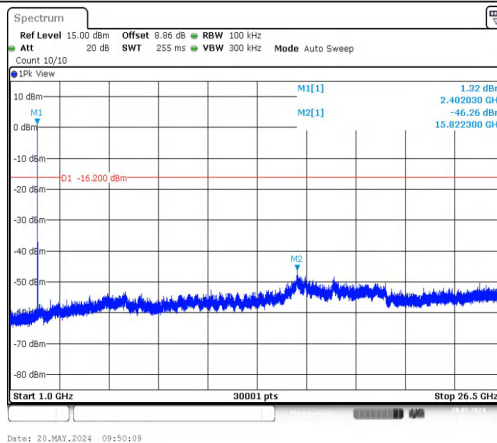
BLE_1M-Ant1-2480-1000~26500-PASS



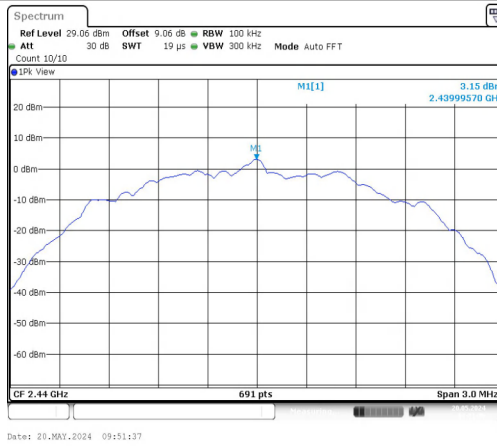
BLE_2M-Ant1-2402-0~Reference-PASS



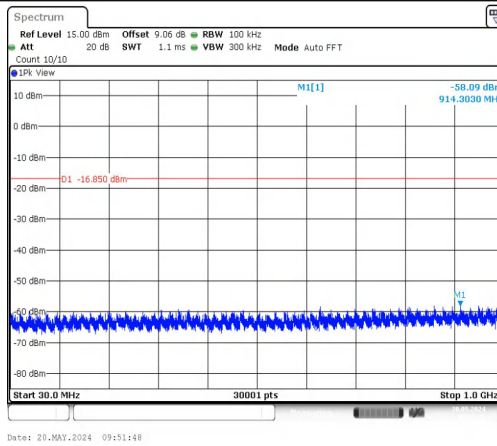
BLE_2M-Ant1-2402-30~1000-PASS



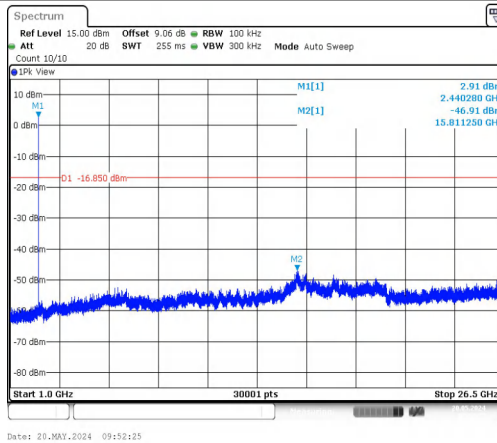
BLE_2M-Ant1-2402-1000~26500-PASS



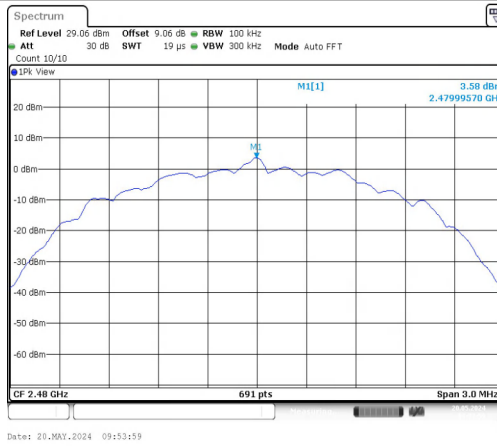
BLE_2M-Ant1-2440-0~Reference-PASS



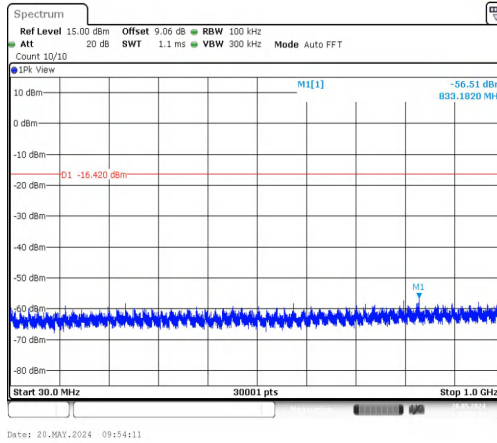
BLE_2M-Ant1-2440-30~1000-PASS



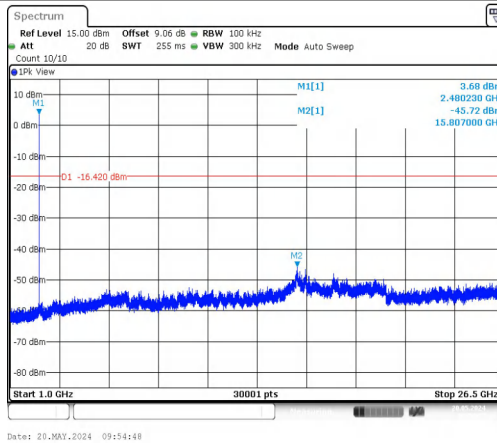
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



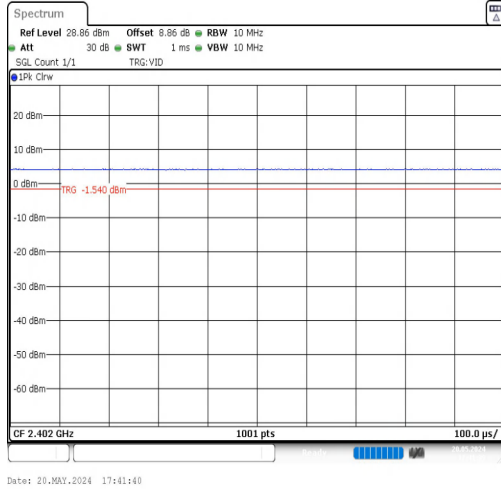
Appendix H: Duty Cycle

Test Result

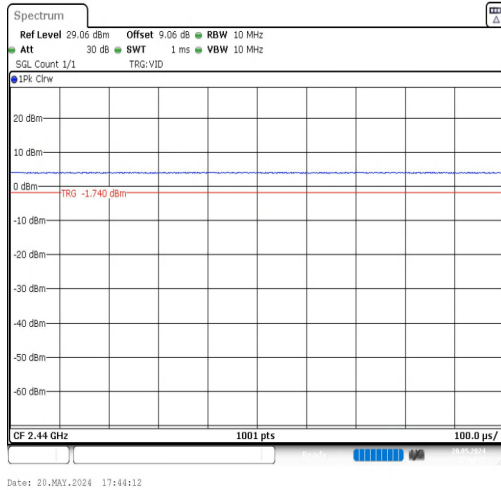
| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M | Ant1 | 2402 | 1.00 | 1.00 | 100 | NaN |
| BLE_1M | Ant1 | 2440 | 1.00 | 1.00 | 100 | NaN |
| BLE_1M | Ant1 | 2480 | 1.00 | 1.00 | 100 | NaN |
| BLE_2M | Ant1 | 2402 | 1.00 | 1.00 | 100 | NaN |
| BLE_2M | Ant1 | 2440 | 1.00 | 1.00 | 100 | NaN |
| BLE_2M | Ant1 | 2480 | 1.00 | 1.00 | 100 | NaN |



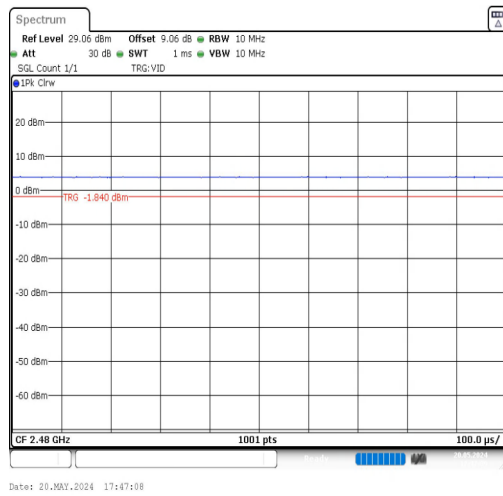
Test Graphs



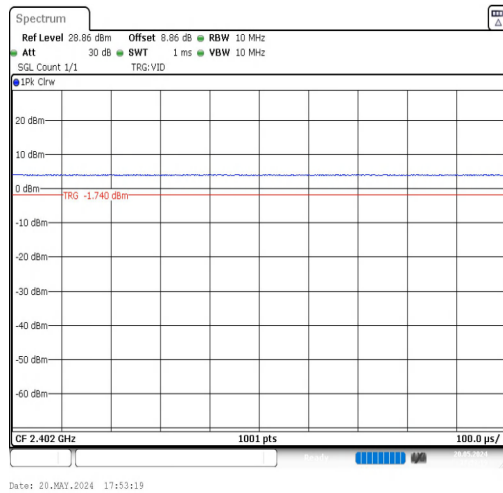
NTNV-BLE_1M-Ant1-2402



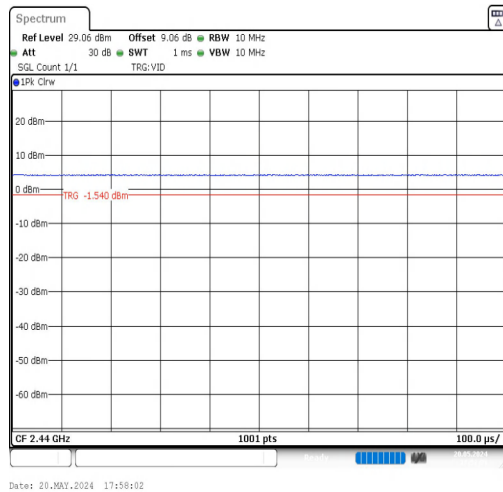
NTNV-BLE_1M-Ant1-2440



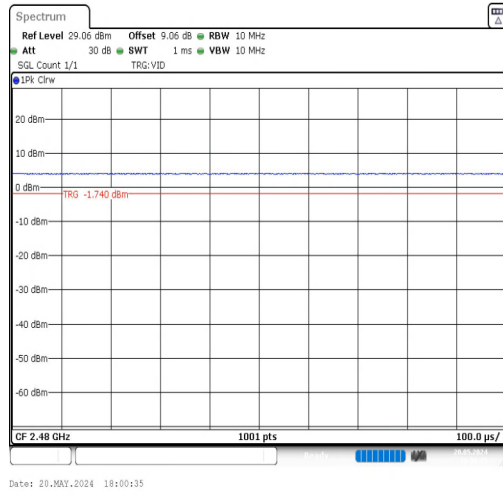
NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480