

## Appendix Test Data for BLE (Conducted Measurement)

Product Name: Ambient Light

Trade Mark: ALPINE STYLE

Test Model: KTX-AMB1

FCC ID: 2BFB2-KTX-AMB1M

### Environmental Conditions

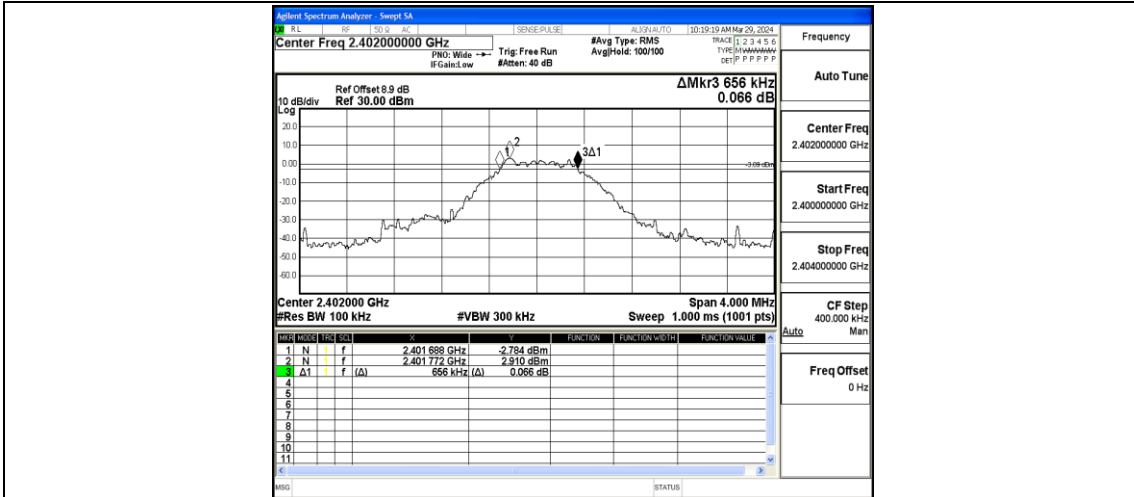
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

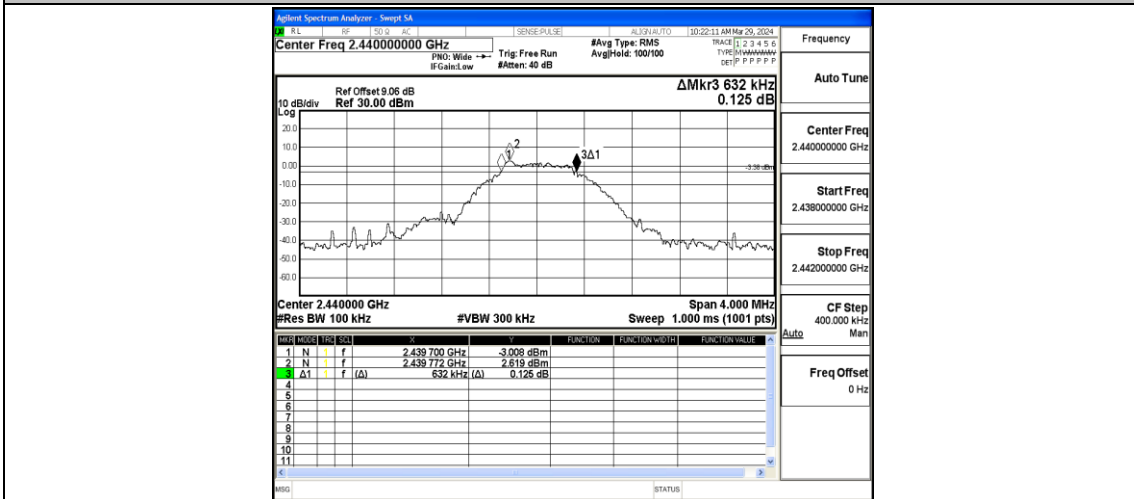
### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.688	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.632	2439.700	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.644	2479.700	2480.344	0.5	PASS

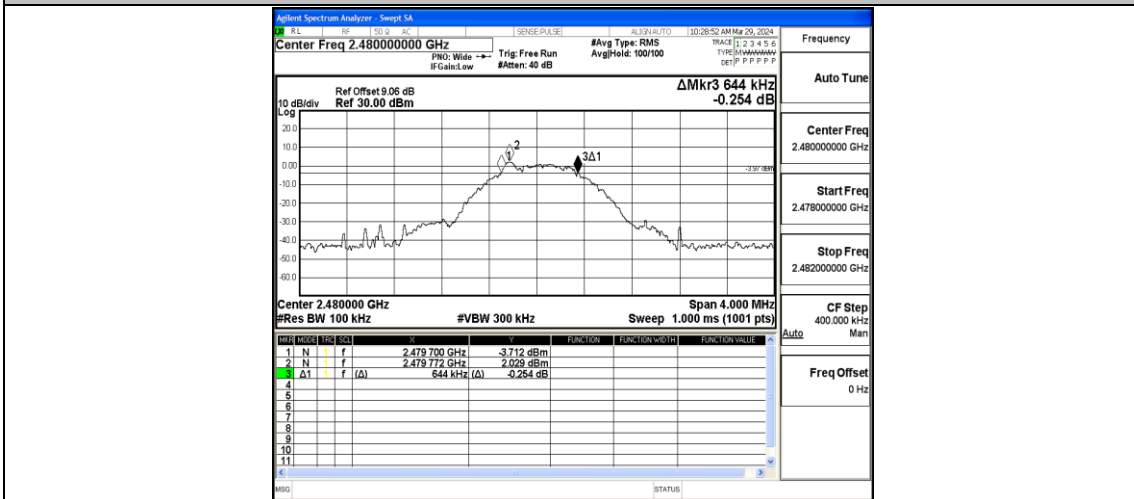
### Test Graphs



BLE\_1M-Ant1-240-PASS



BLE\_1M-Ant1-2440-PASS



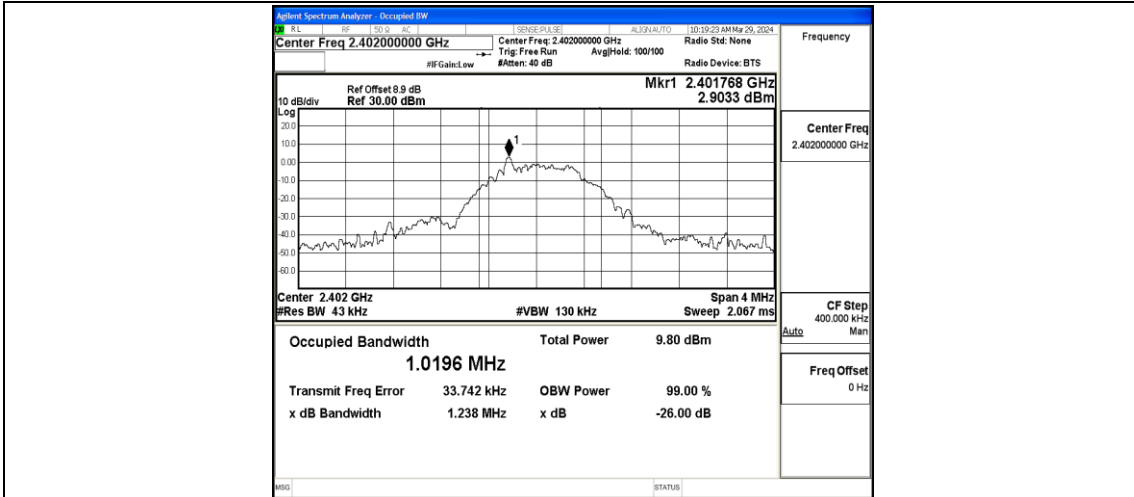
BLE\_1M-Ant1-2480-PASS

## Appendix B: Occupied Channel Bandwidth

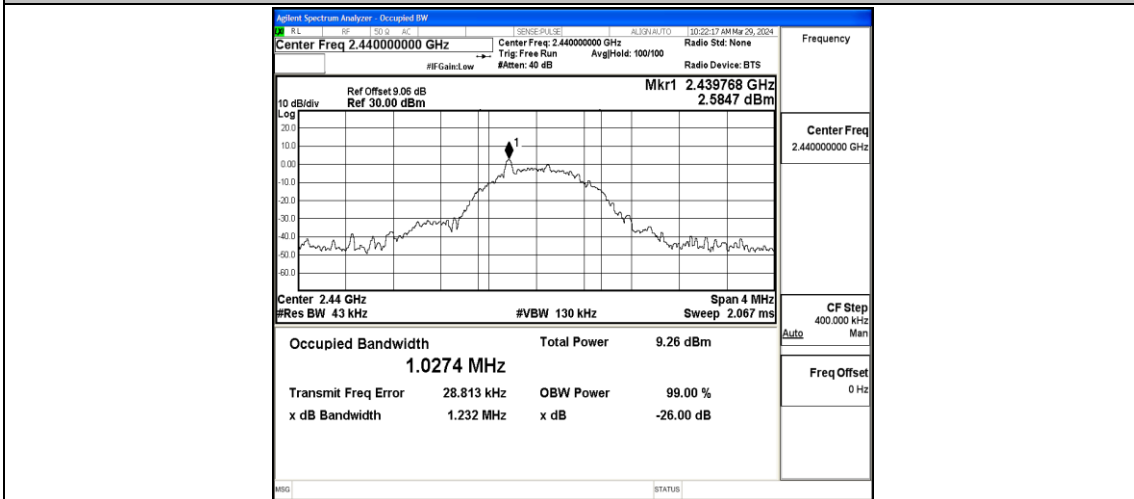
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0196	2401.5239	2402.5435	---	---
BLE_1M	Ant1	2440	1.0274	2439.5151	2440.5425	---	---
BLE_1M	Ant1	2480	1.0206	2479.5145	2480.5351	---	---

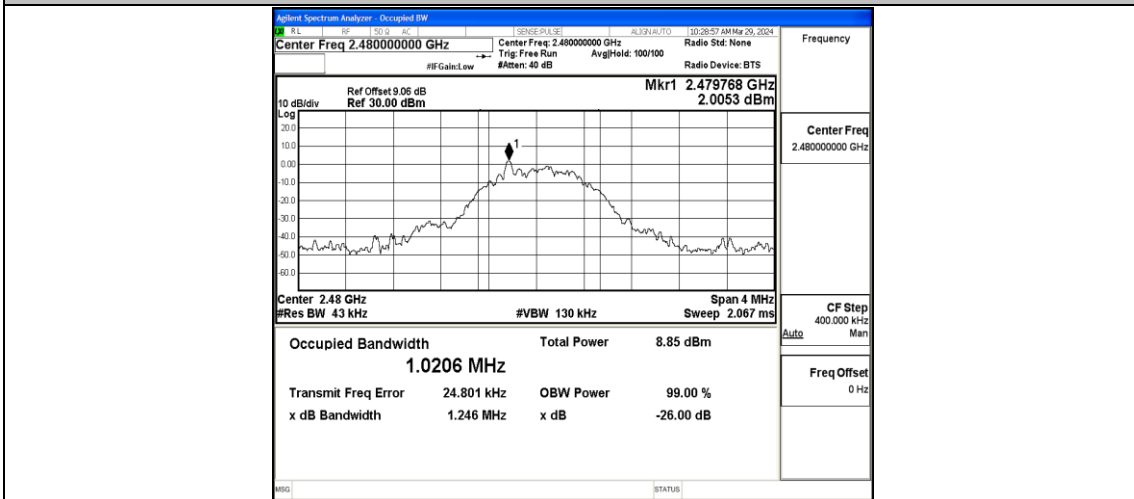
### Test Graphs



BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



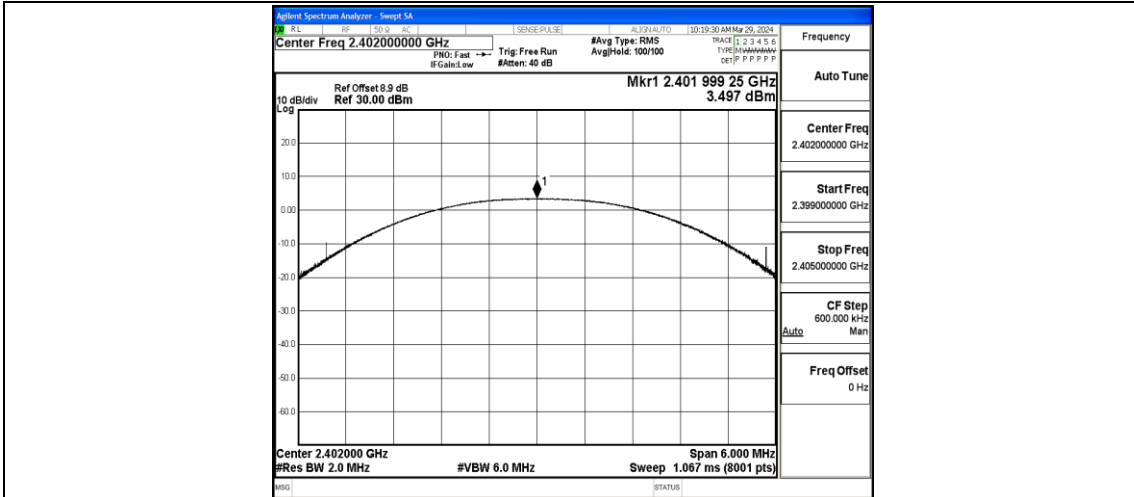
BLE\_1M-Ant1-2480

## Appendix C: Maximum peak conducted output power

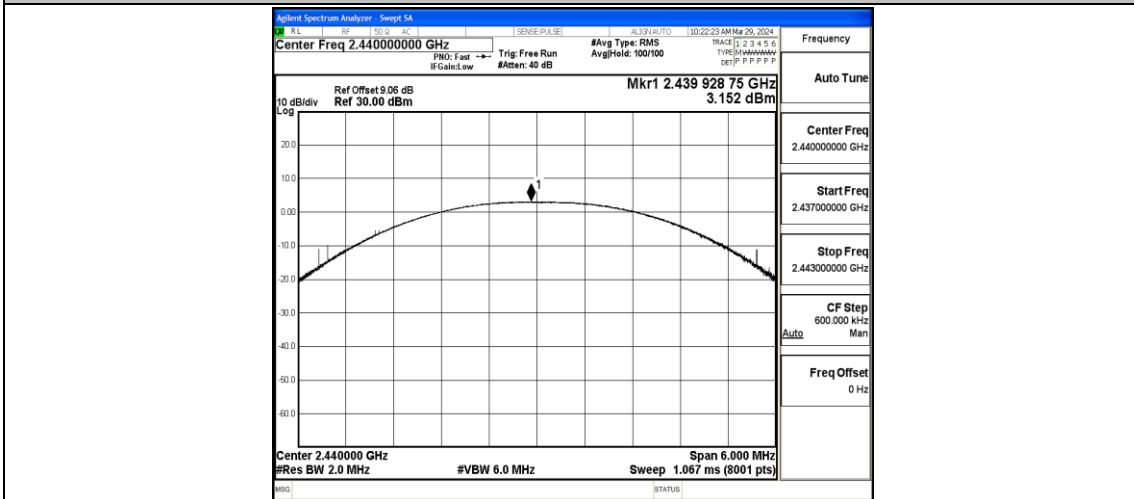
### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.50	≤30	PASS
BLE_1M	Ant1	2440	3.15	≤30	PASS
BLE_1M	Ant1	2480	2.60	≤30	PASS

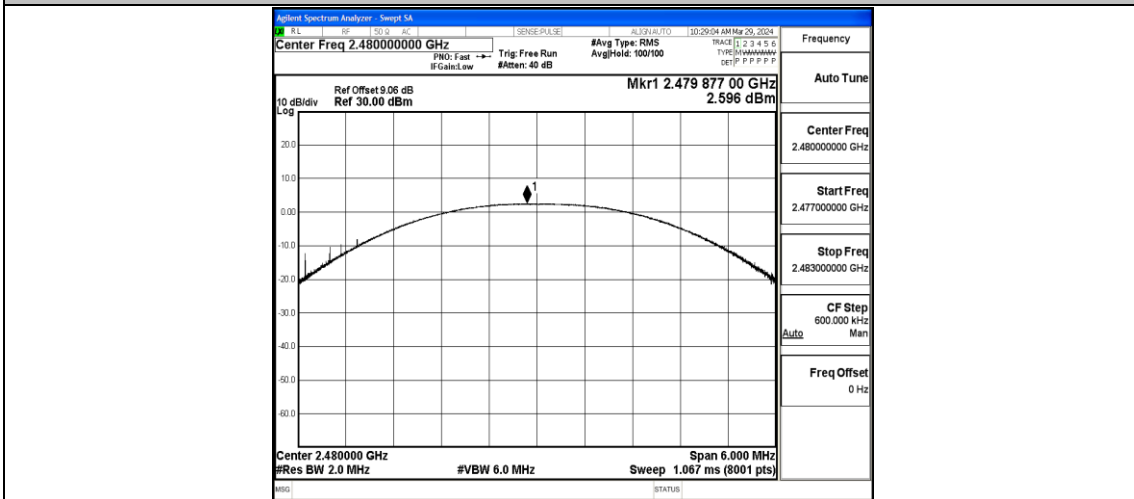
### Test Graphs Peak



BLE\_1M-Ant1-240-PASS



BLE\_1M-Ant1-244-PASS



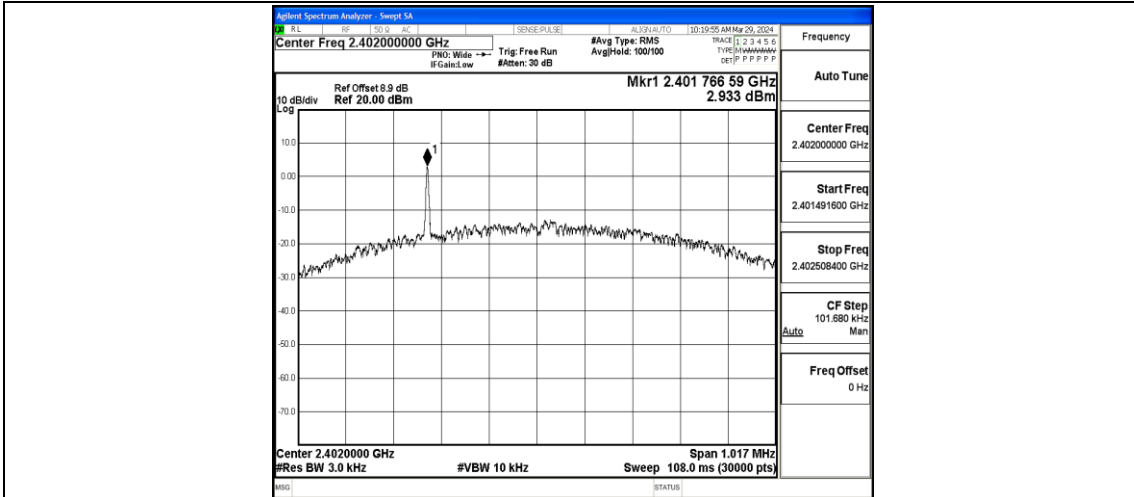
BLE\_1M-Ant1-248-PASS

## Appendix D: Maximum peak power spectral density

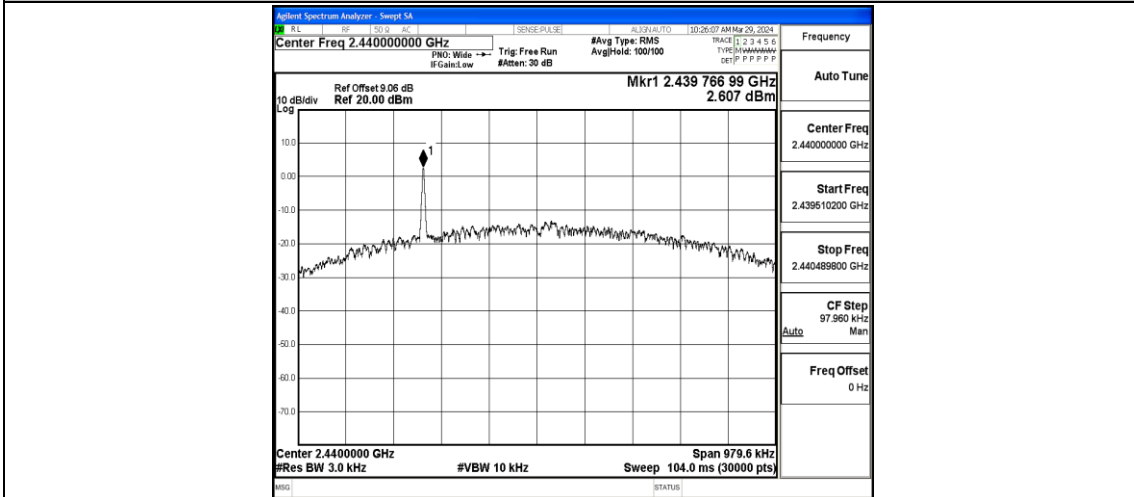
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	2.93	≤8.00	PASS
BLE_1M	Ant1	2440	2.61	≤8.00	PASS
BLE_1M	Ant1	2480	2.07	≤8.00	PASS

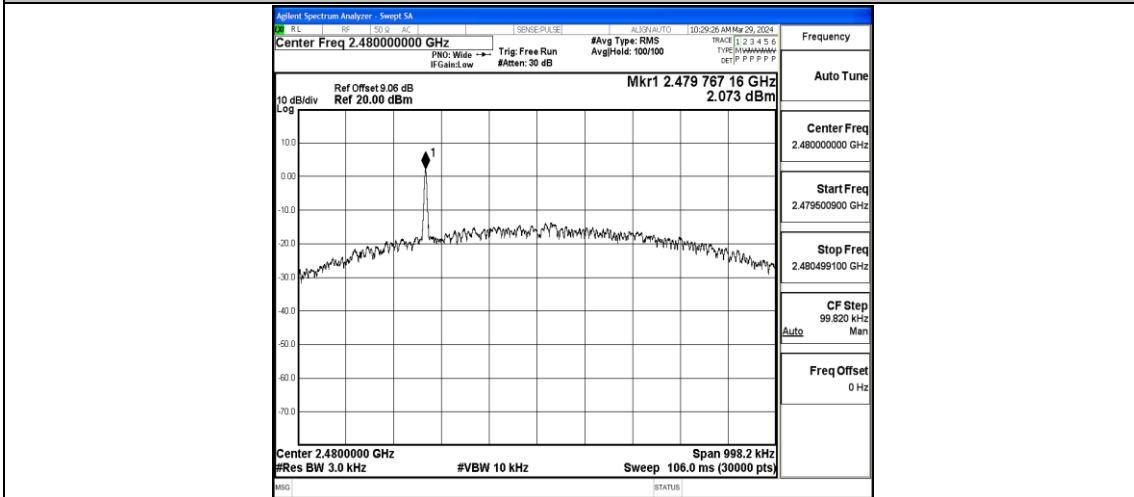
### Test Graphs



BLE\_1M-Ant1-240-PASS



BLE\_1M-Ant1-244-PASS



BLE\_1M-Ant1-2480-PASS

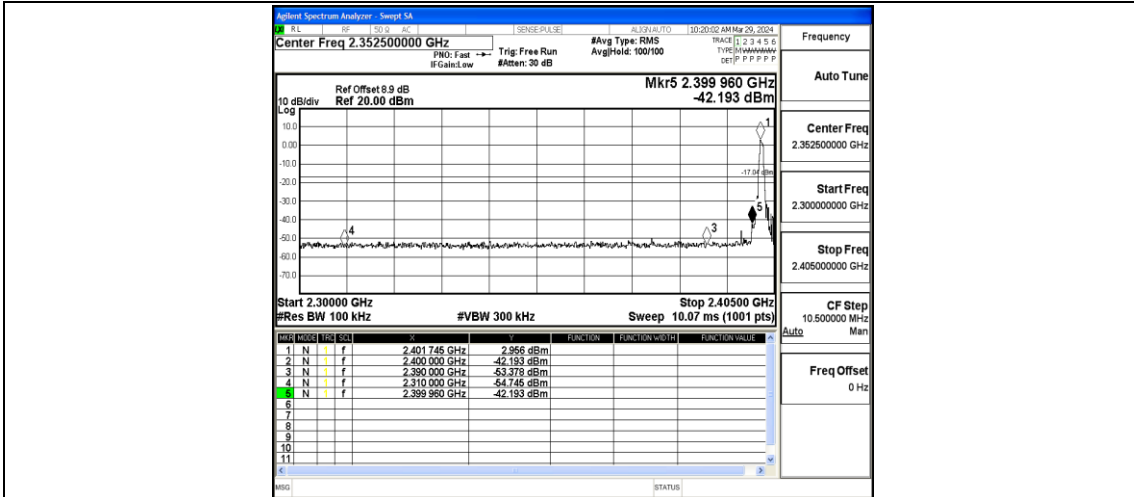


## Appendix E: Band edge measurements

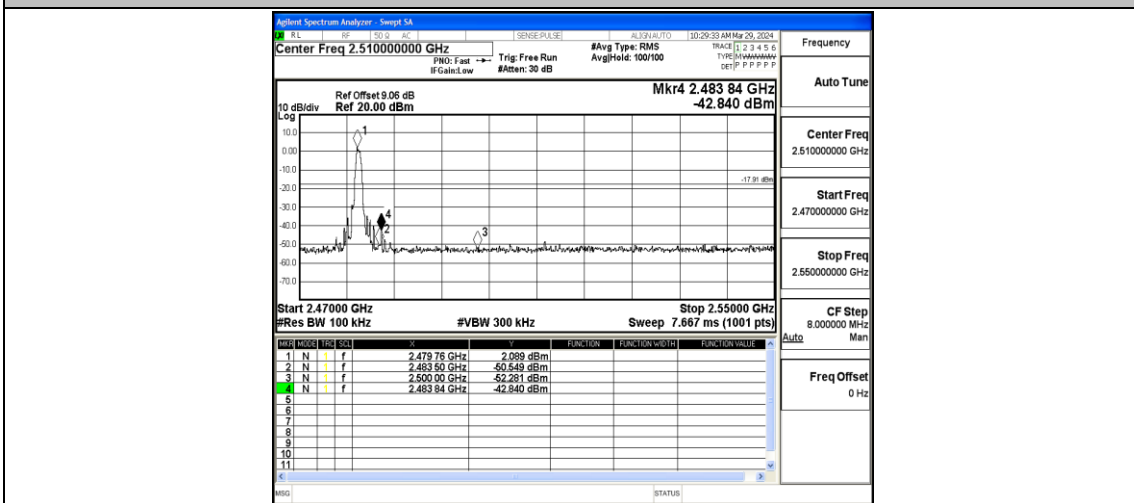
### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.96	-42.19	≤-17.04	PASS
BLE_1M	Ant1	High	2480	2.09	-42.84	≤-17.91	PASS

### Test Graphs



BLE\_1M-Ant1-240-PASS



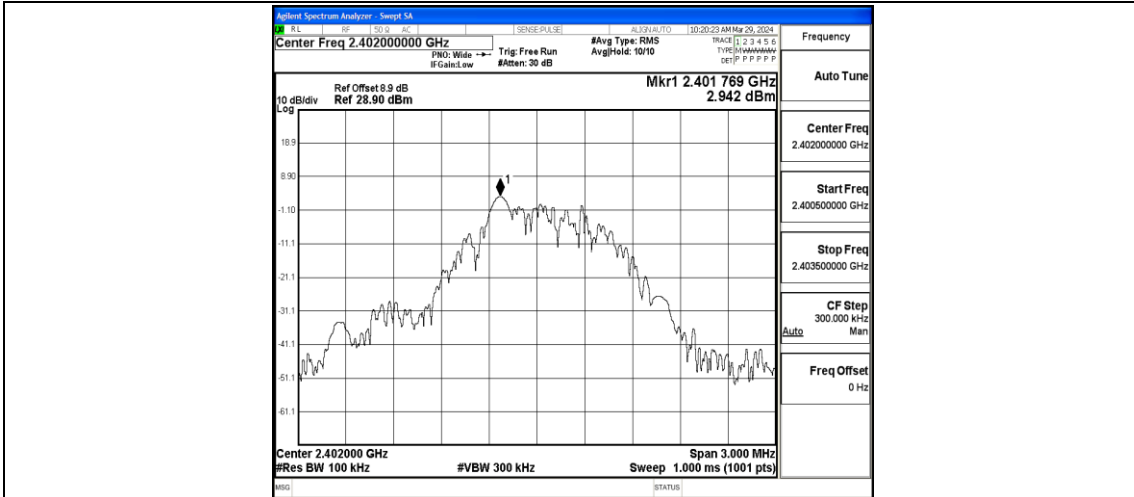
BLE\_1M-Ant1-2480-PASS

## Appendix F: Conducted Spurious Emission

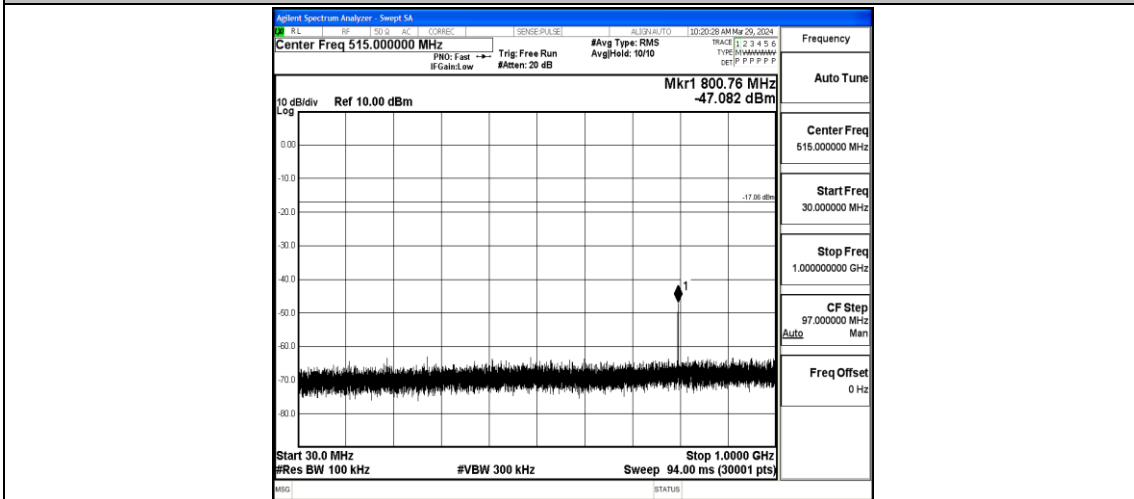
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.94	2.94	---	PASS
BLE_1M	Ant1	2402	30~1000	2.94	-47.08	≤-17.06	PASS
BLE_1M	Ant1	2402	1000~26500	2.94	-33.1	≤-17.06	PASS
BLE_1M	Ant1	2440	0~Reference	2.61	2.61	---	PASS
BLE_1M	Ant1	2440	30~1000	2.61	-45.31	≤-17.39	PASS
BLE_1M	Ant1	2440	1000~26500	2.61	-34.02	≤-17.39	PASS
BLE_1M	Ant1	2480	0~Reference	2.08	2.08	---	PASS
BLE_1M	Ant1	2480	30~1000	2.08	-45.46	≤-17.92	PASS
BLE_1M	Ant1	2480	1000~26500	2.08	-35.37	≤-17.92	PASS

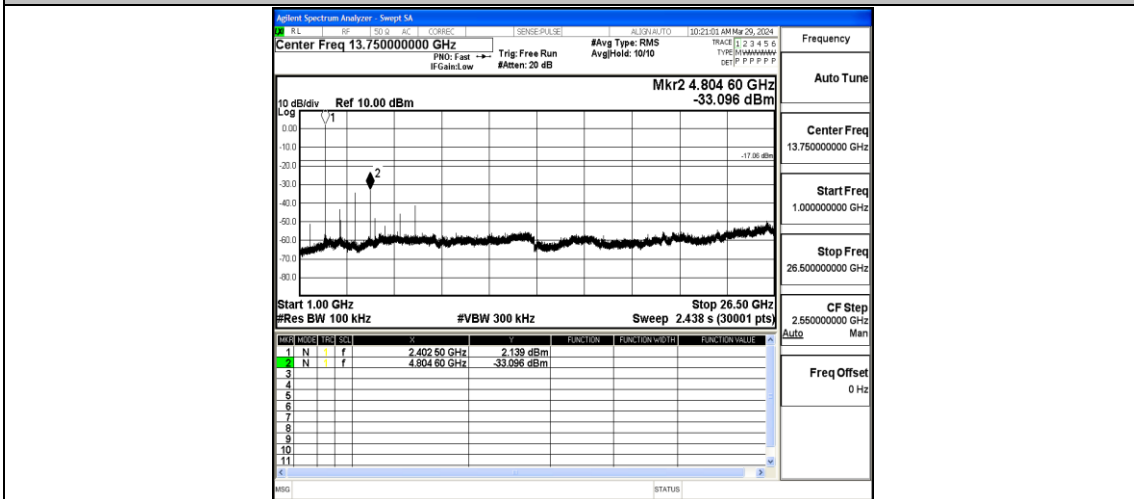
### Test Graphs



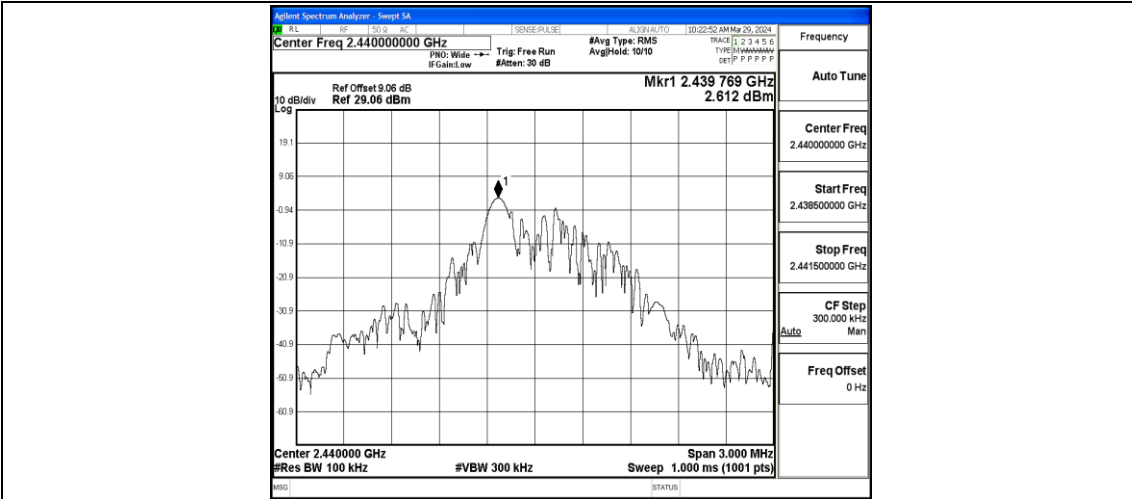
BLE\_1M-Ant1-2402-0~Reference-PASS



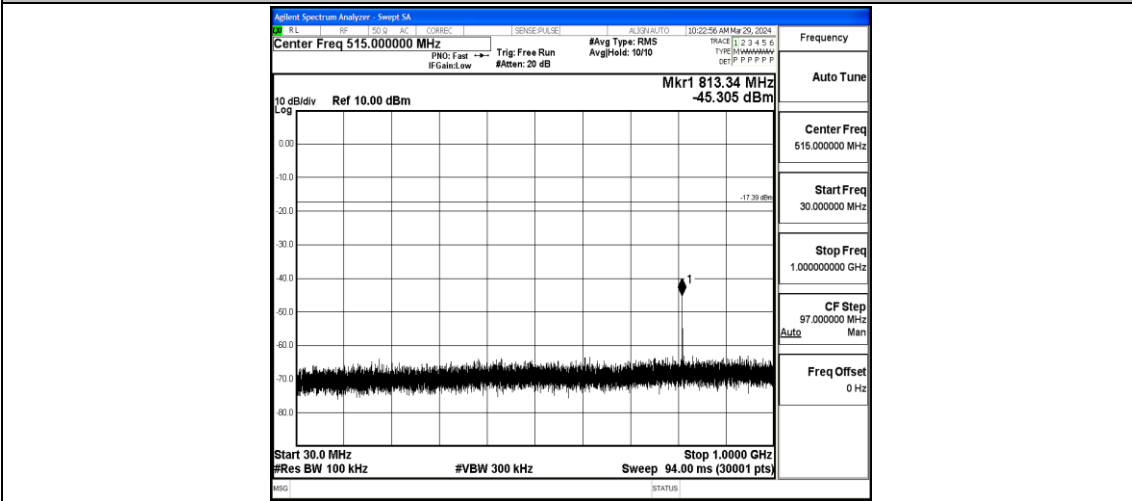
BLE\_1M-Ant1-2402-30~1000-PASS



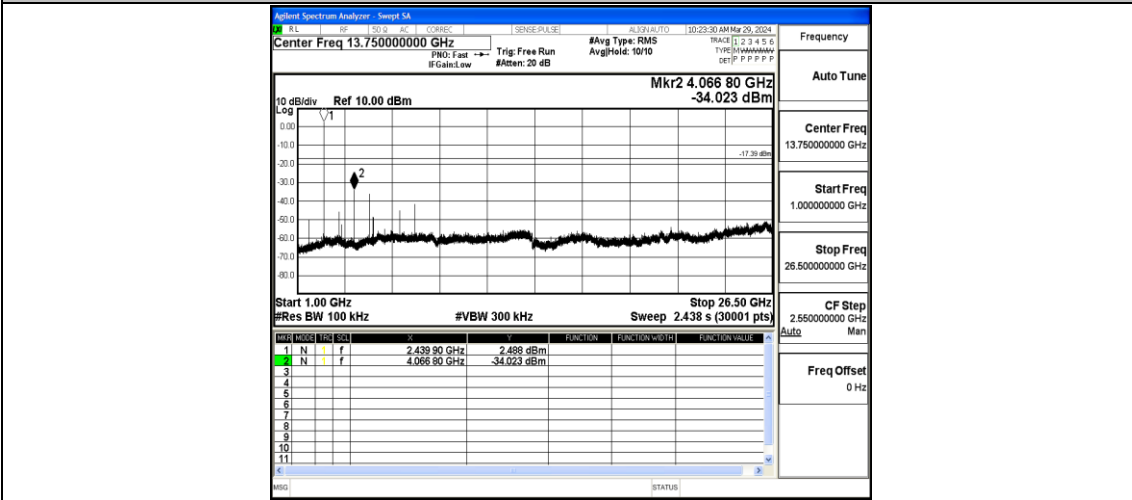
BLE\_1M-Ant1-2402-1000~26500-PASS



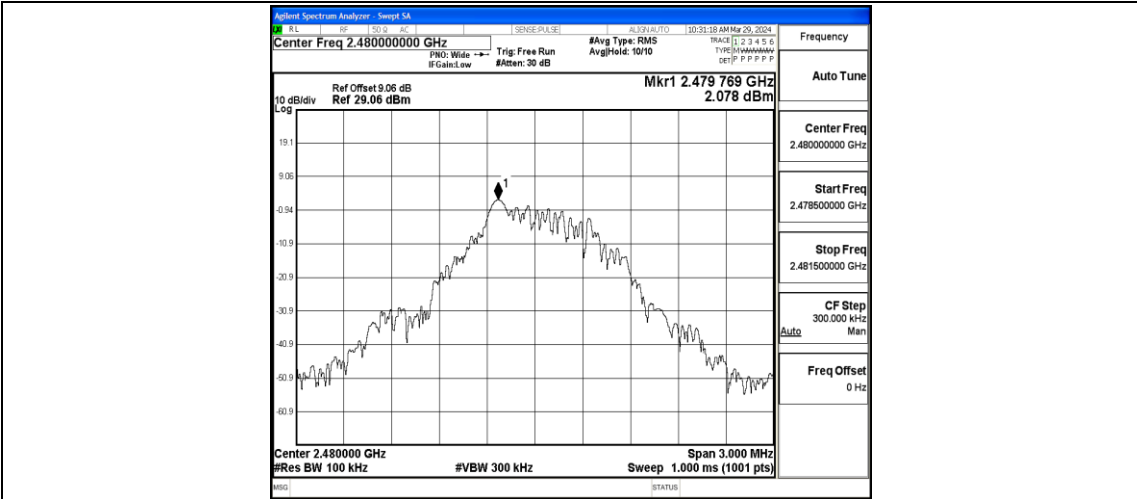
BLE\_1M-Ant1-2440-0~Reference-PASS



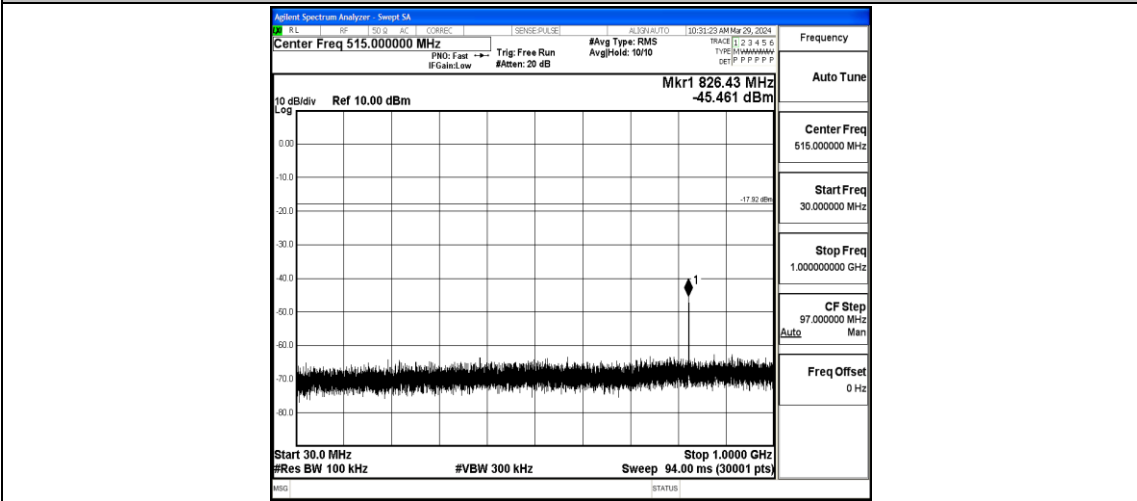
BLE\_1M-Ant1-2440-30~1000-PASS



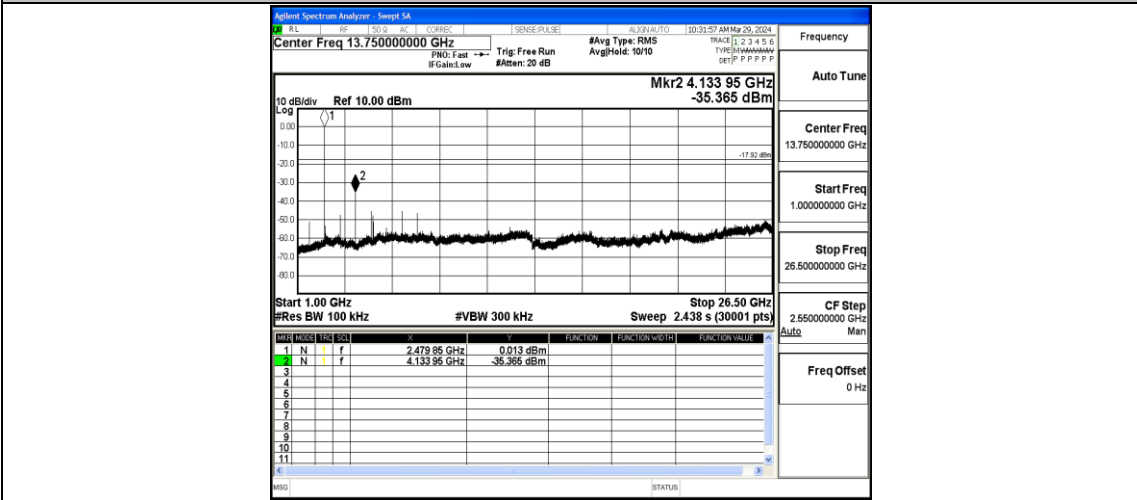
BLE\_1M-Ant1-2440-1000~26500-PASS



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



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



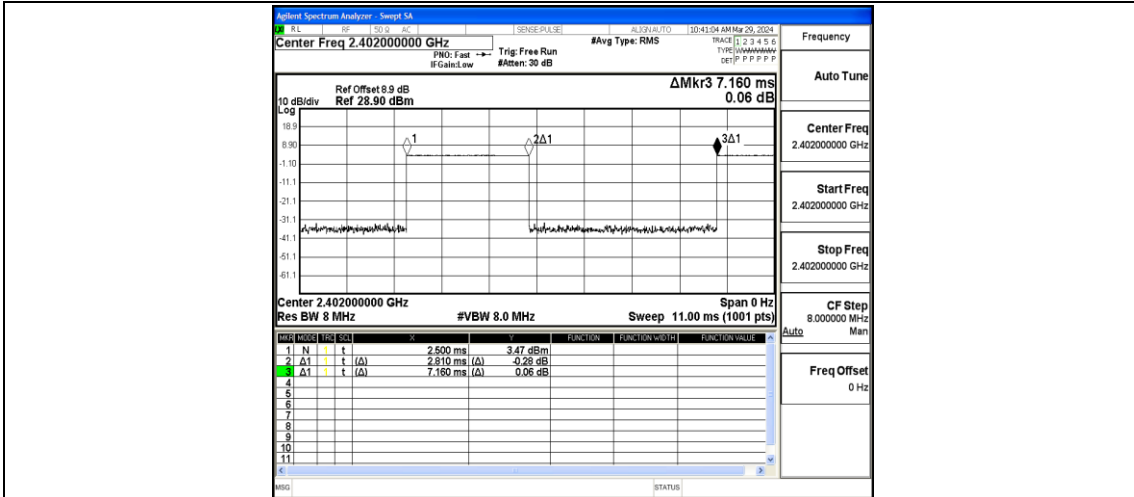
BLE\_1M-Ant1-2480-1000~26500-PASS

## Appendix G: Duty Cycle

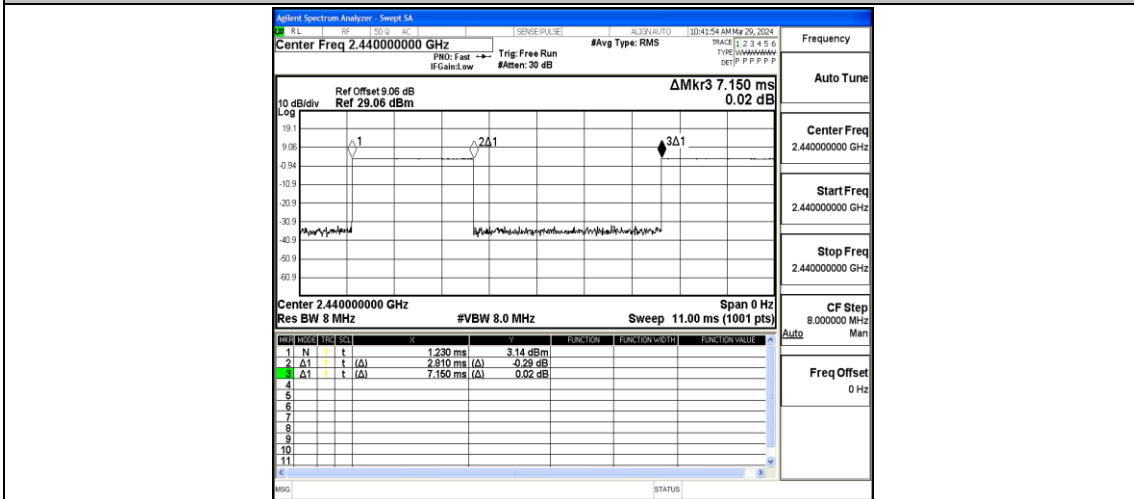
### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.81	7.16	39.25	4.06
BLE_1M	Ant1	2440	2.81	7.15	39.30	4.06
BLE_1M	Ant1	2480	2.80	7.15	39.16	4.07

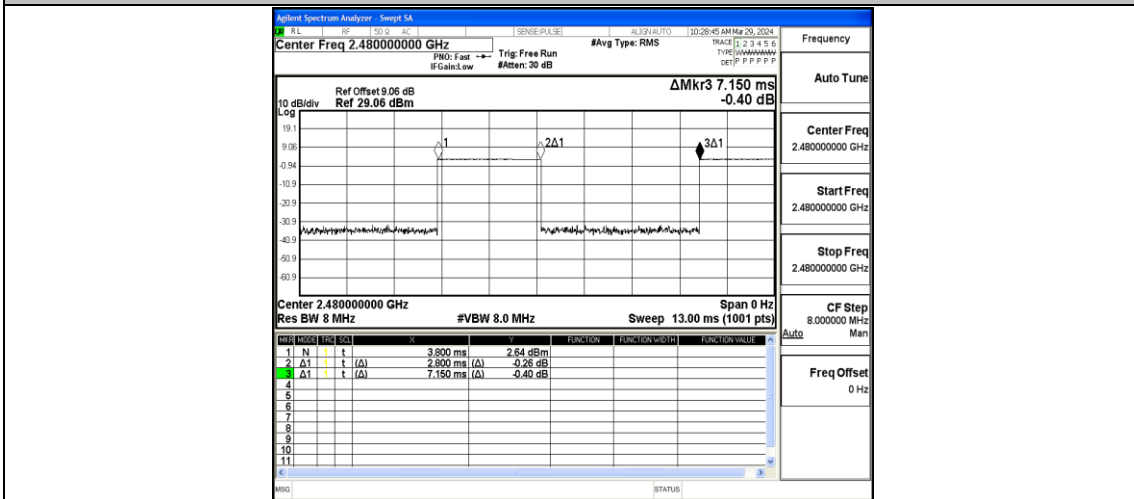
### Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480