

## Appendix Test Data for BLE (Conducted Measurement)

Product Name: Smart Watch

Trade Mark: STEYAFRO

Test Model: ST1

FCC ID: 2BHSQ-ST1

### Environmental Conditions

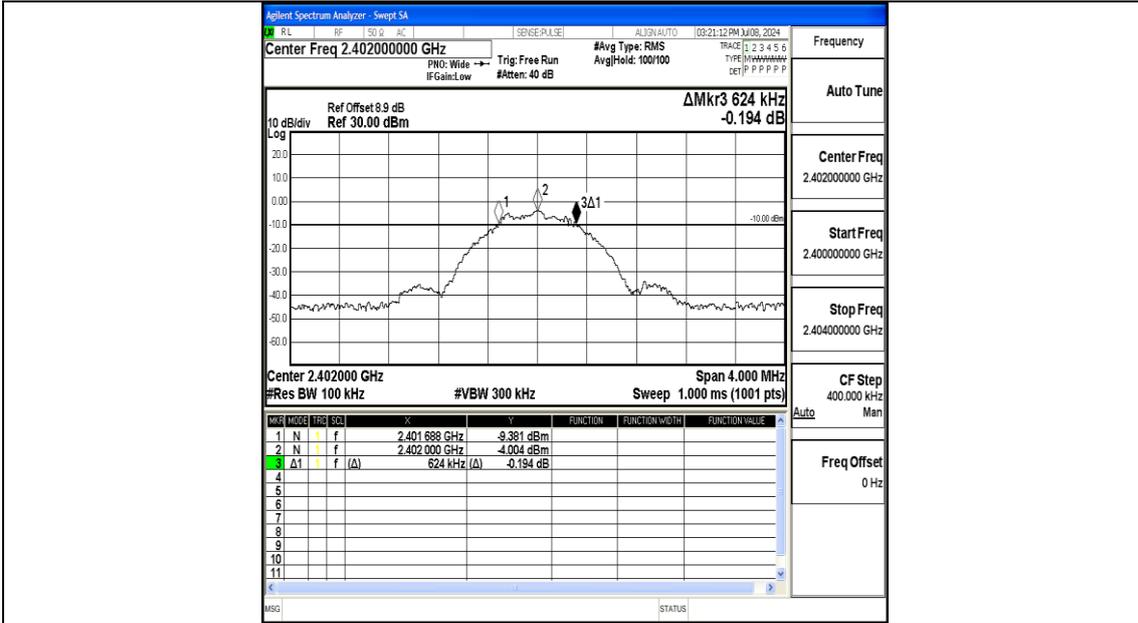
Temperature:	23.8°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

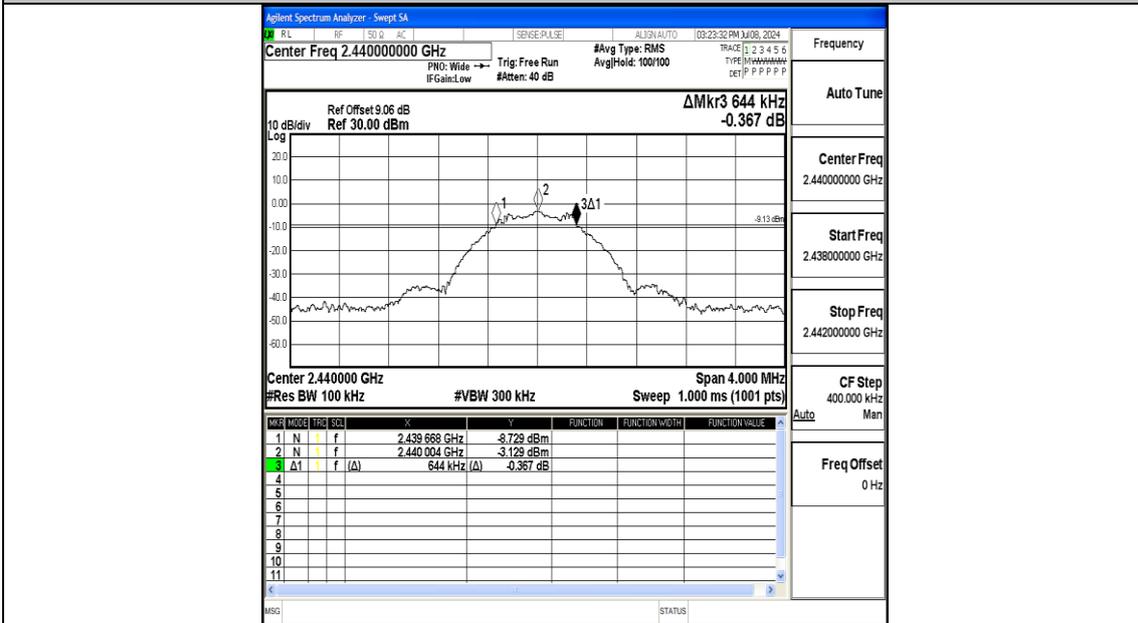
### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.624	2401.688	2402.312	0.5	PASS
BLE_1M	Ant1	2440	0.644	2439.668	2440.312	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.672	2480.324	0.5	PASS

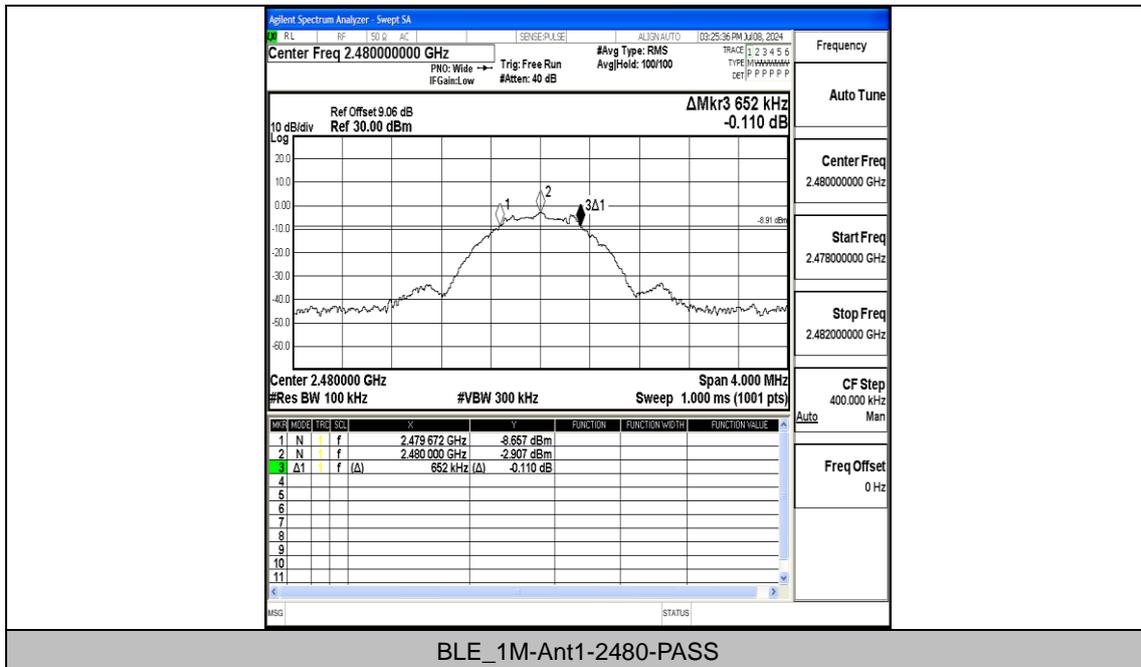
### Test Graphs



BLE\_1M-Ant1-240-PASS



BLE\_1M-Ant1-244-PASS

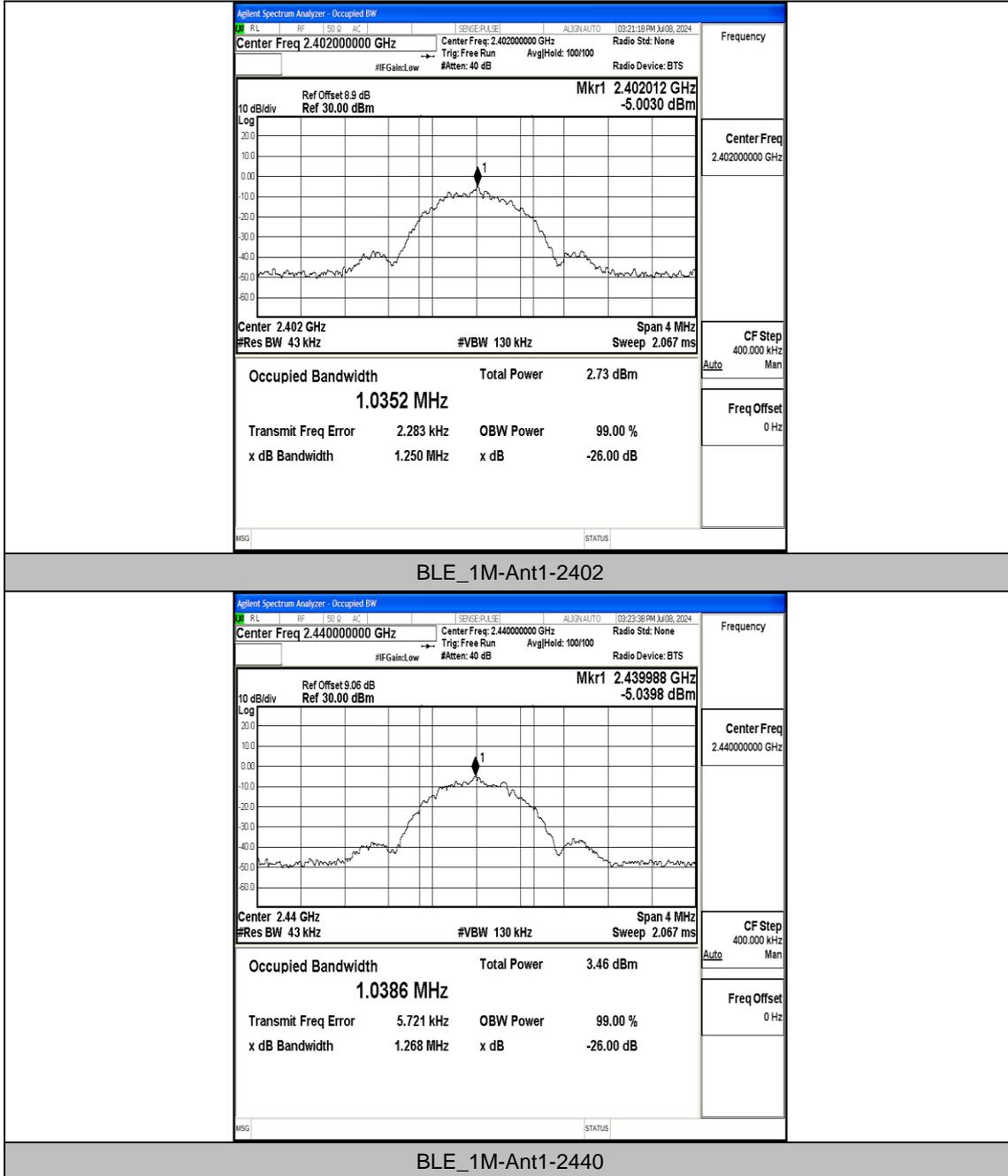


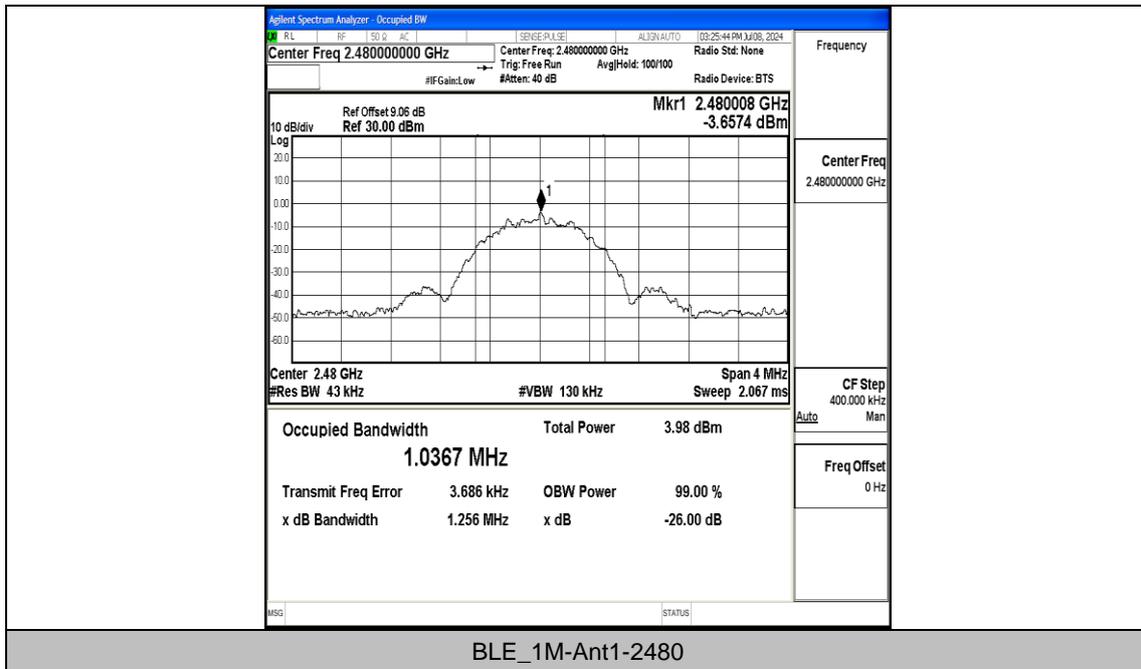
## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0352	2401.4847	2402.5199	---	---
BLE_1M	Ant1	2440	1.0386	2439.4864	2440.5250	---	---
BLE_1M	Ant1	2480	1.0367	2479.4853	2480.5220	---	---

### Test Graphs



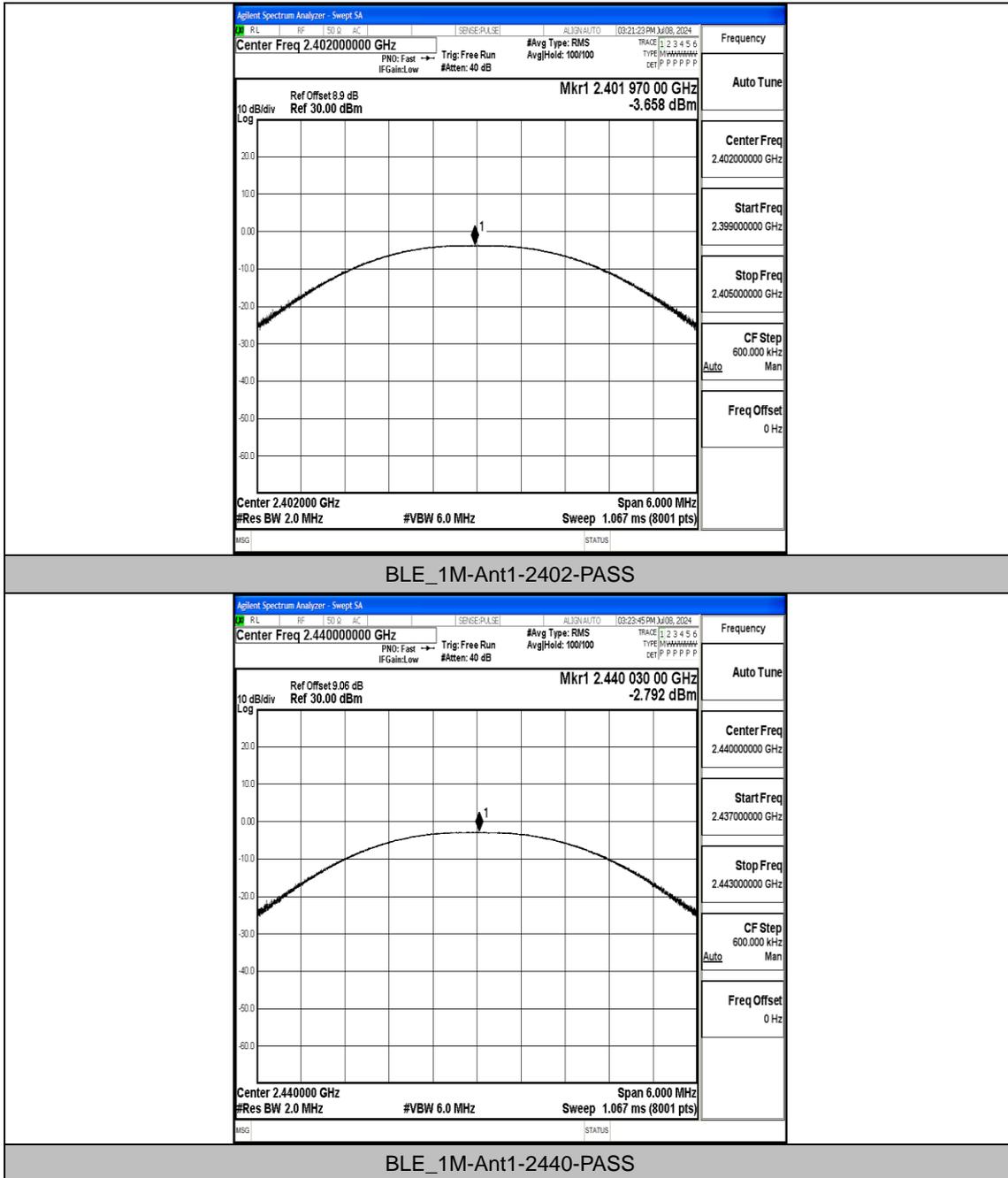


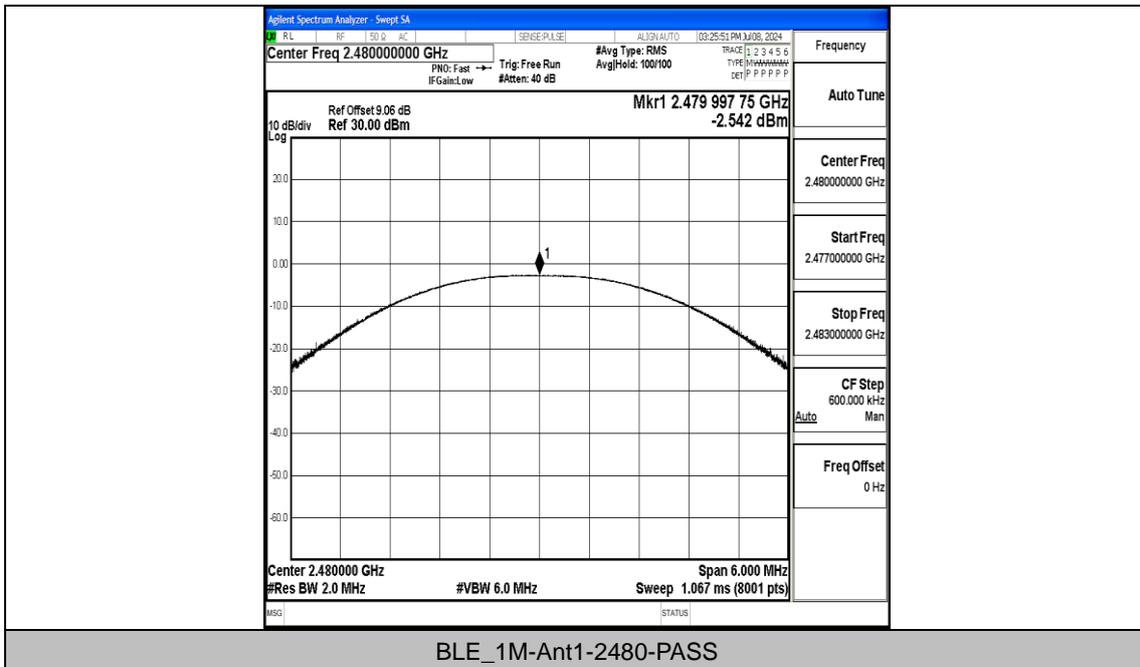
## Appendix C: Maximum peak conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.66	≤30	PASS
BLE_1M	Ant1	2440	-2.79	≤30	PASS
BLE_1M	Ant1	2480	-2.54	≤30	PASS

### Test Graphs Peak



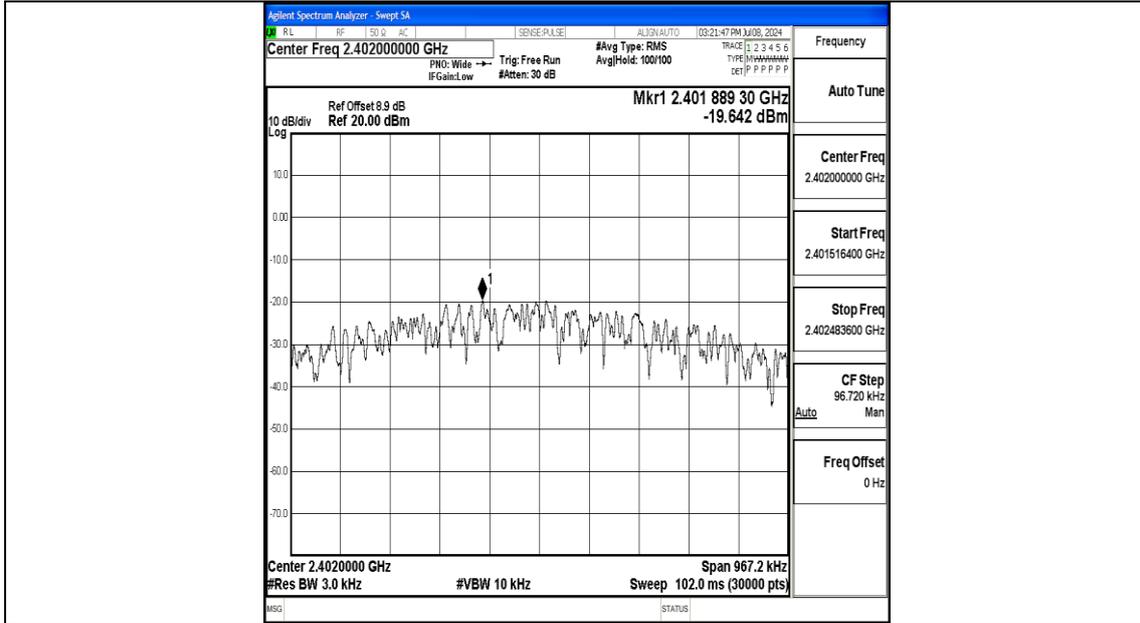


## Appendix D: Maximum peak power spectral density

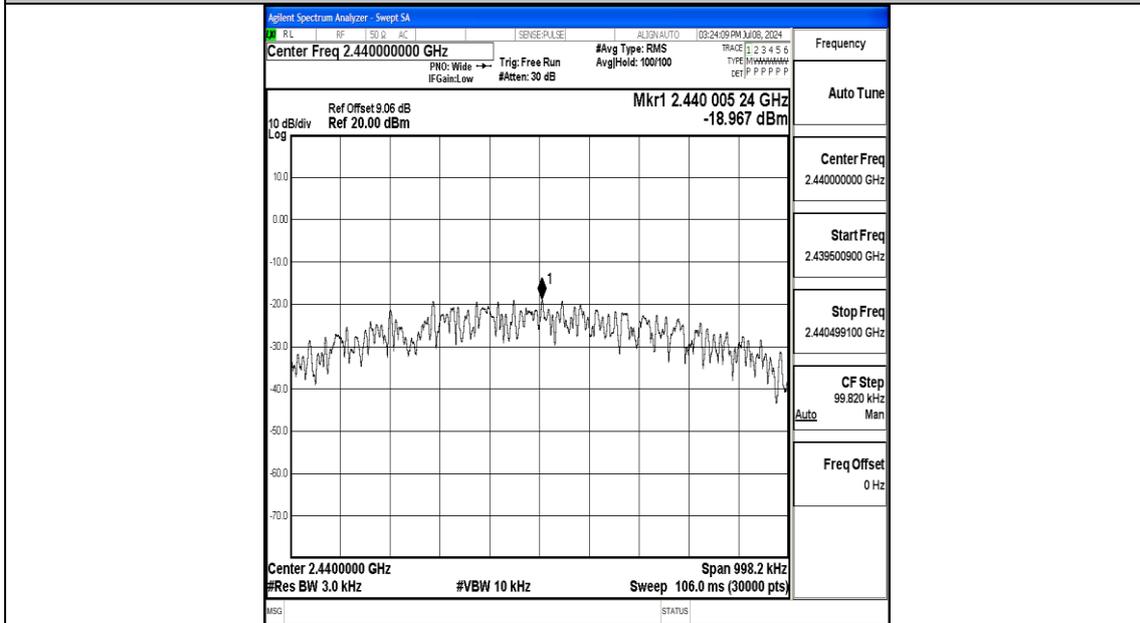
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.64	≤8.00	PASS
BLE_1M	Ant1	2440	-18.97	≤8.00	PASS
BLE_1M	Ant1	2480	-17.51	≤8.00	PASS

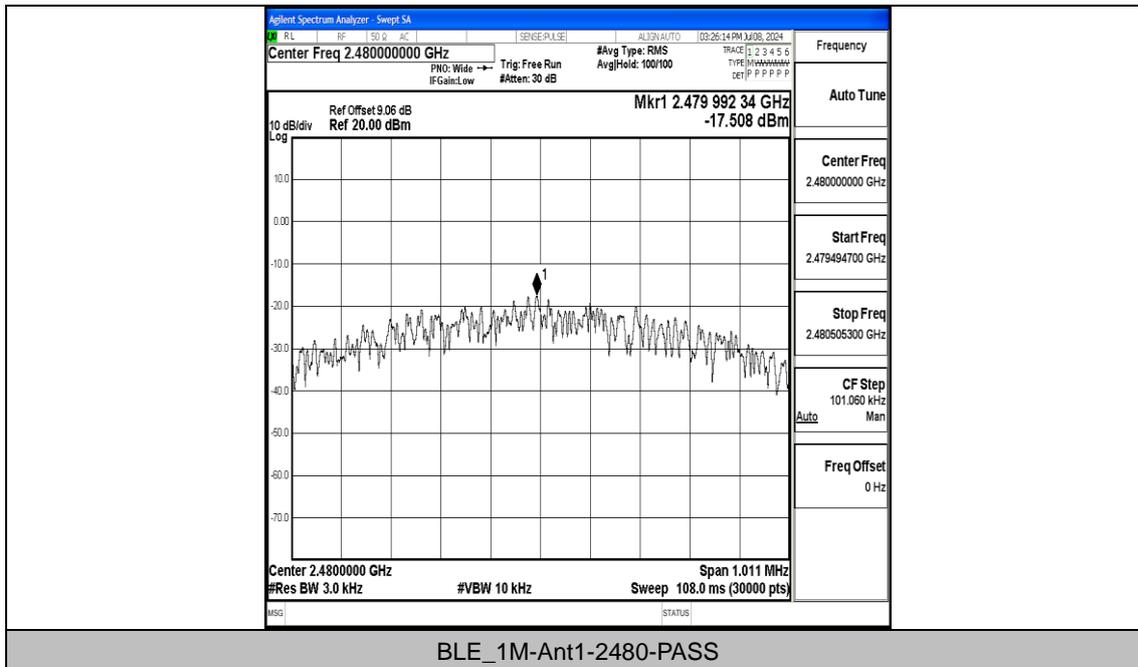
### Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS

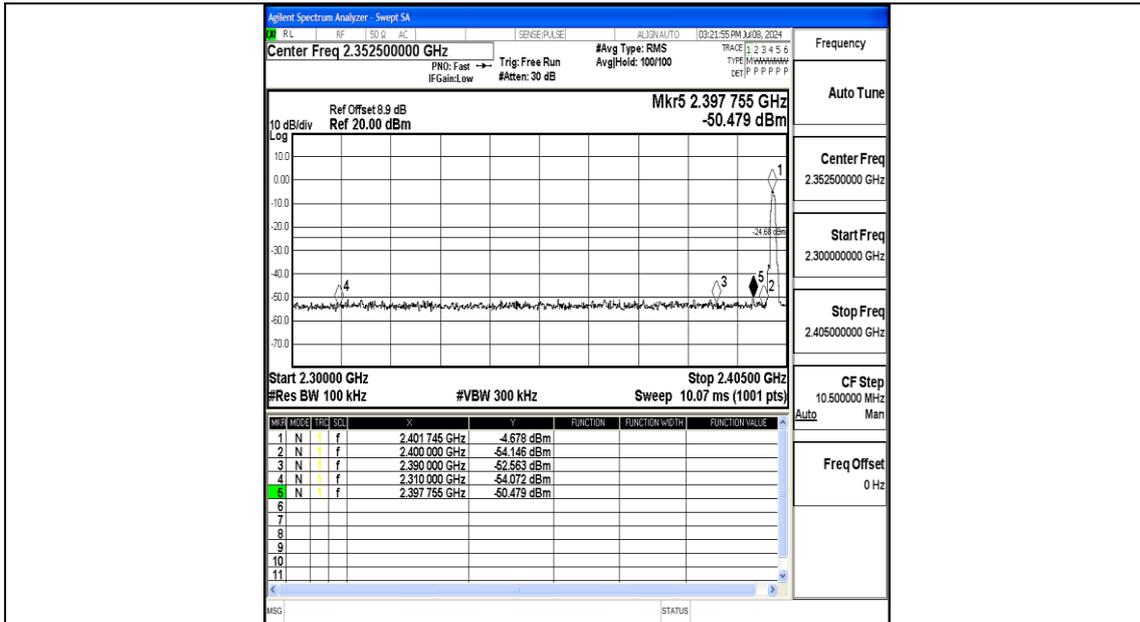


## Appendix E: Band edge measurements

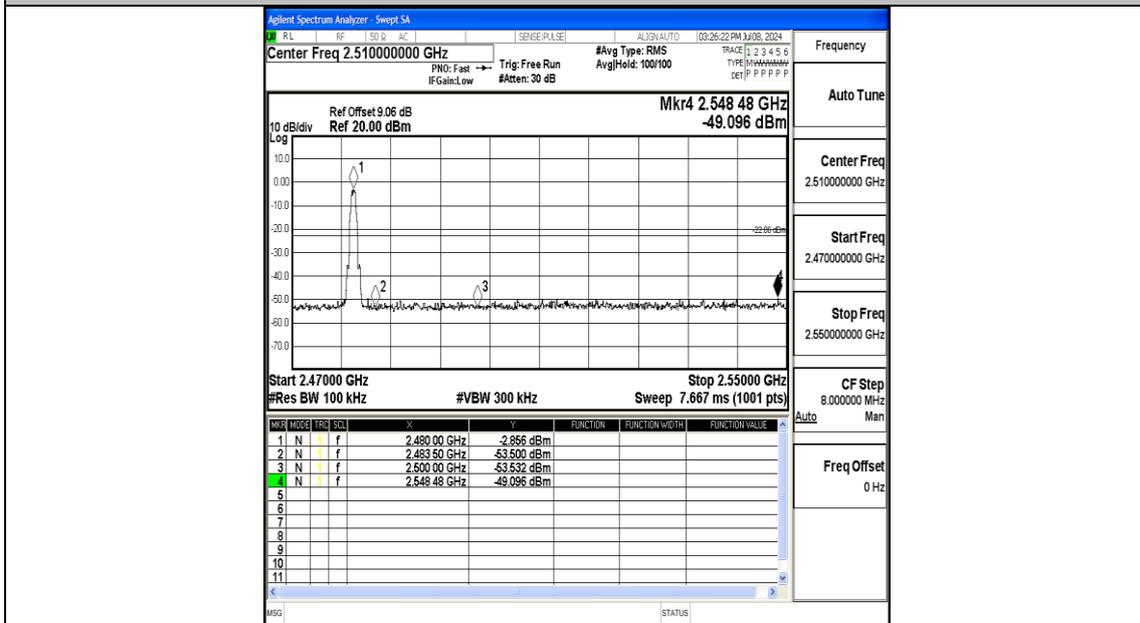
### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.68	-50.48	≤-24.68	PASS
BLE_1M	Ant1	High	2480	-2.86	-49.1	≤-22.86	PASS

### Test Graphs



BLE\_1M-Ant1-240-PASS



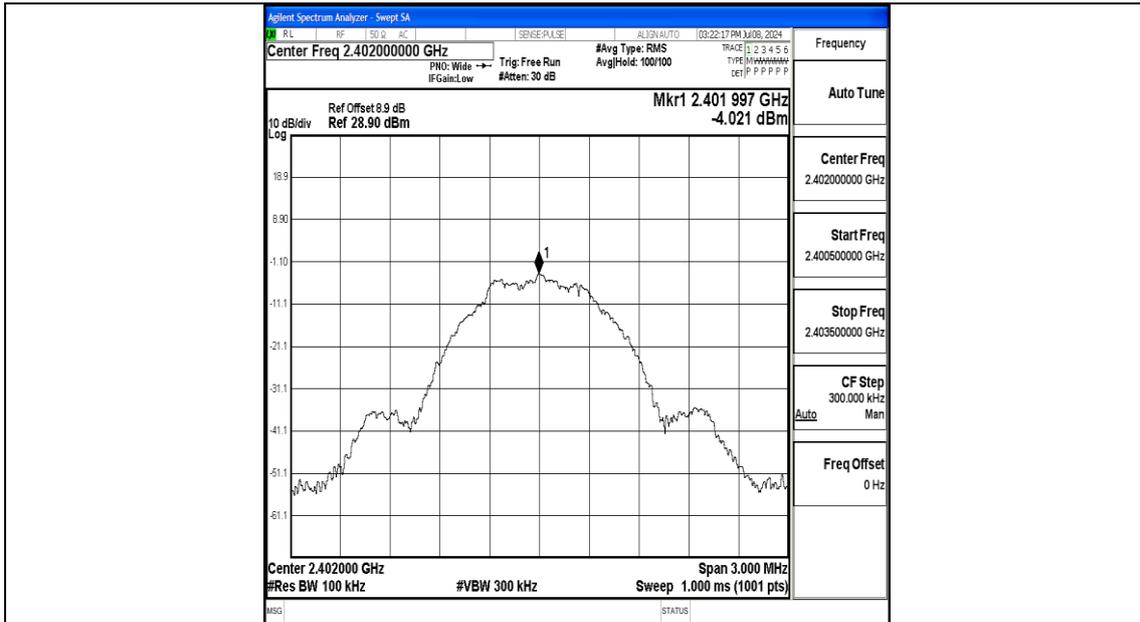
BLE\_1M-Ant1-2480-PASS

## Appendix F: Conducted Spurious Emission

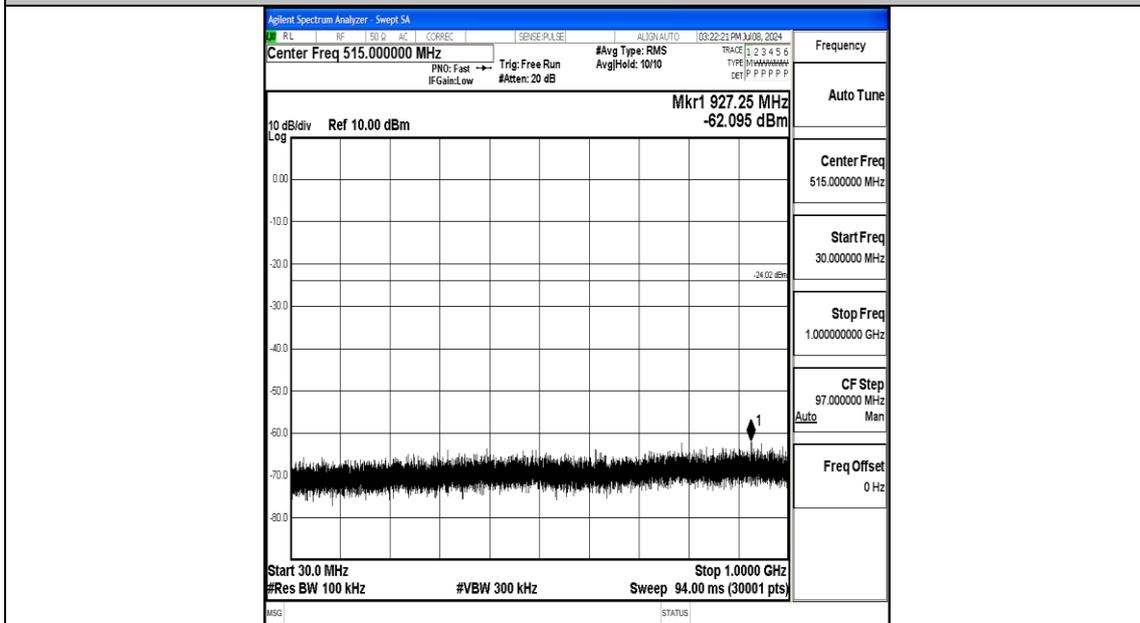
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.02	-4.02	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.02	-62.1	≤-24.02	PASS
BLE_1M	Ant1	2402	1000~26500	-4.02	-50.34	≤-24.02	PASS
BLE_1M	Ant1	2440	0~Reference	-3.26	-3.26	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.26	-63.02	≤-23.26	PASS
BLE_1M	Ant1	2440	1000~26500	-3.26	-49.77	≤-23.26	PASS
BLE_1M	Ant1	2480	0~Reference	-3.03	-3.03	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.03	-62.25	≤-23.03	PASS
BLE_1M	Ant1	2480	1000~26500	-3.03	-50.09	≤-23.03	PASS

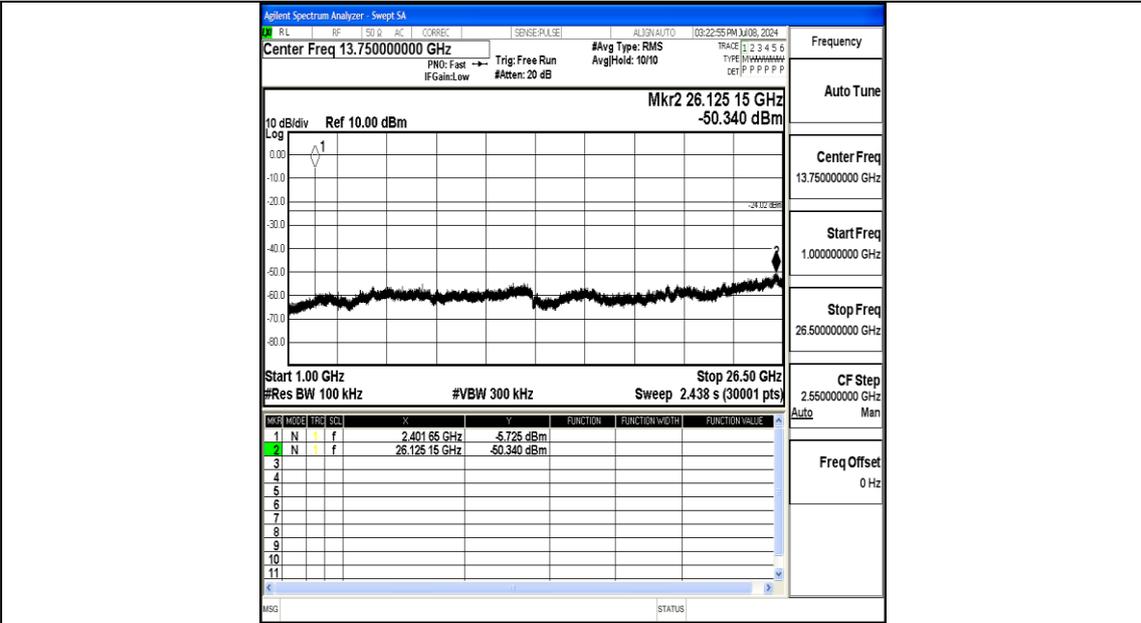
### Test Graphs



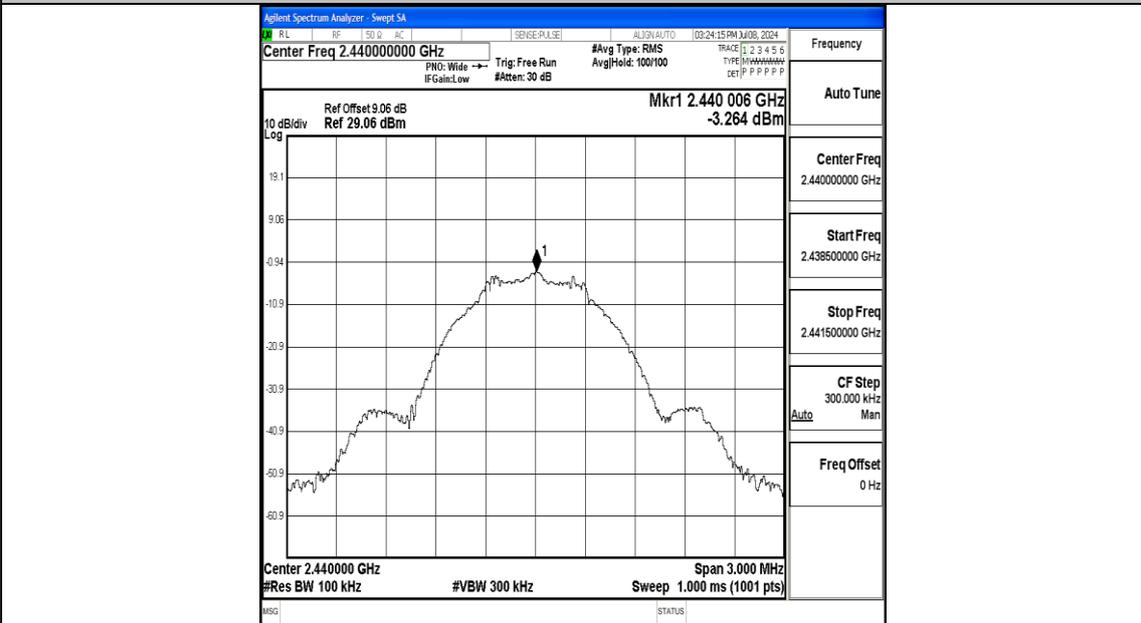
BLE\_1M-Ant1-2402-0~Reference-PASS



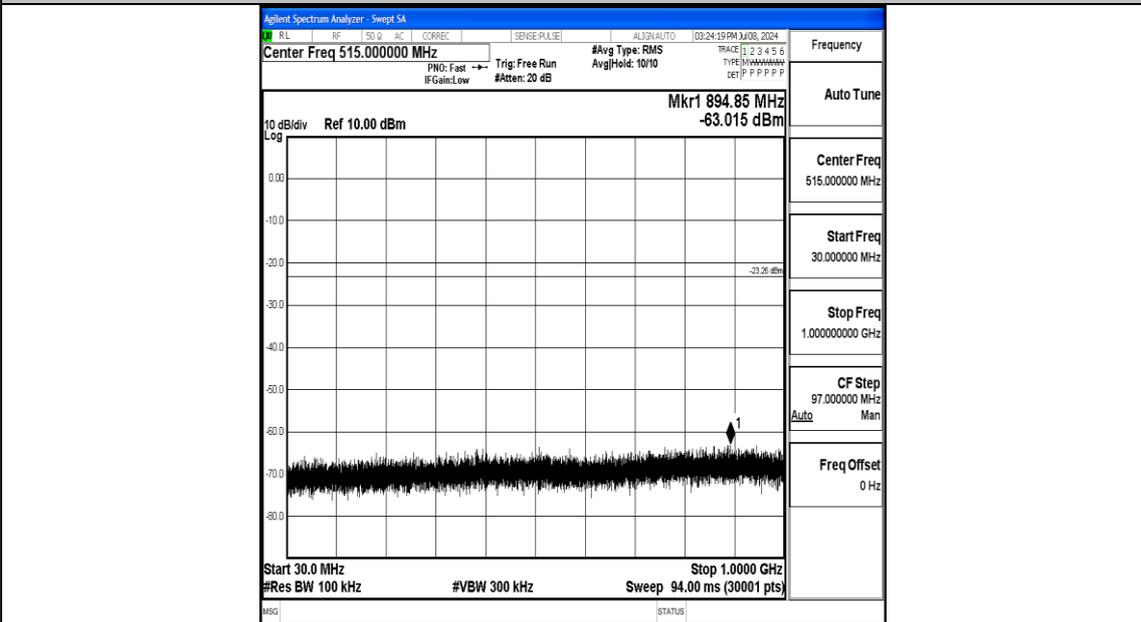
BLE\_1M-Ant1-2402-30~1000-PASS



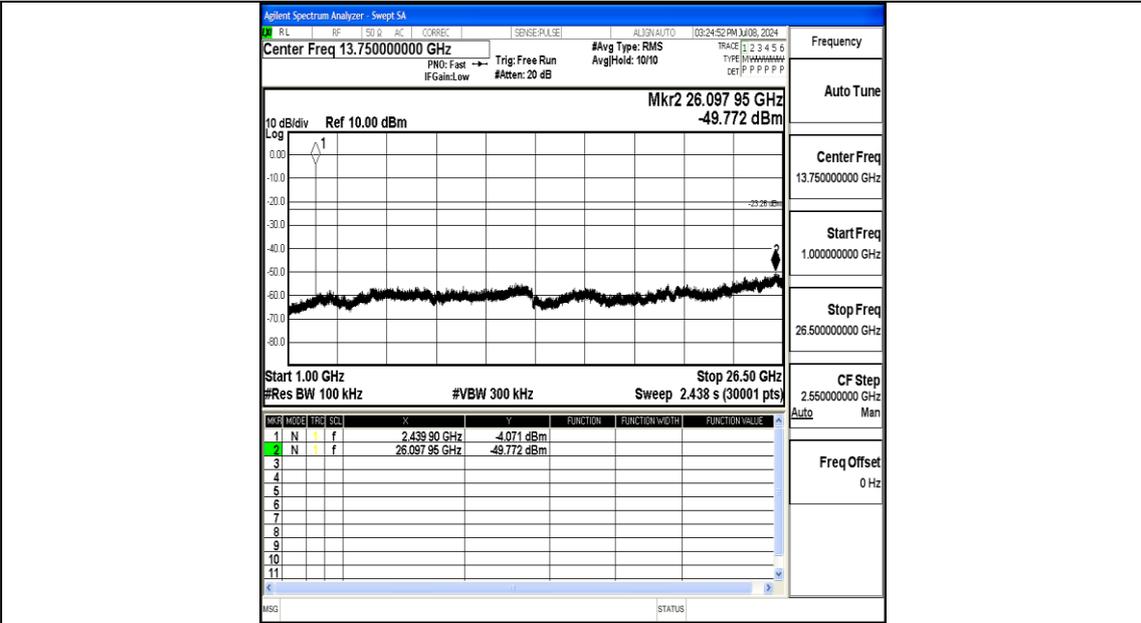
BLE\_1M-Ant1-2402-1000~26500-PASS



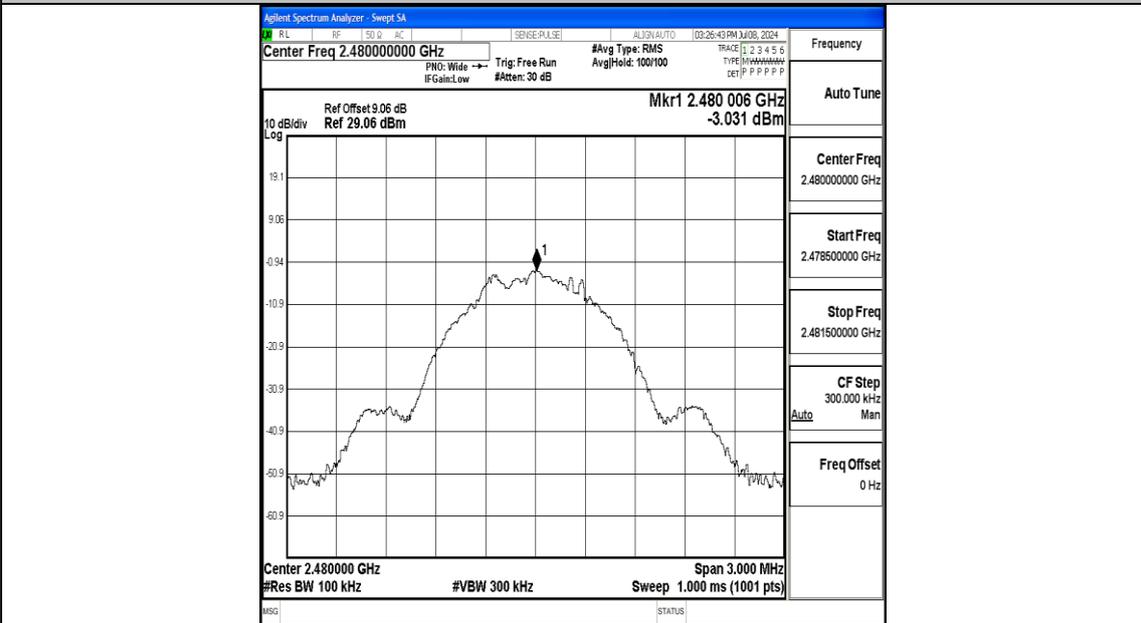
BLE\_1M-Ant1-2440-0~Reference-PASS



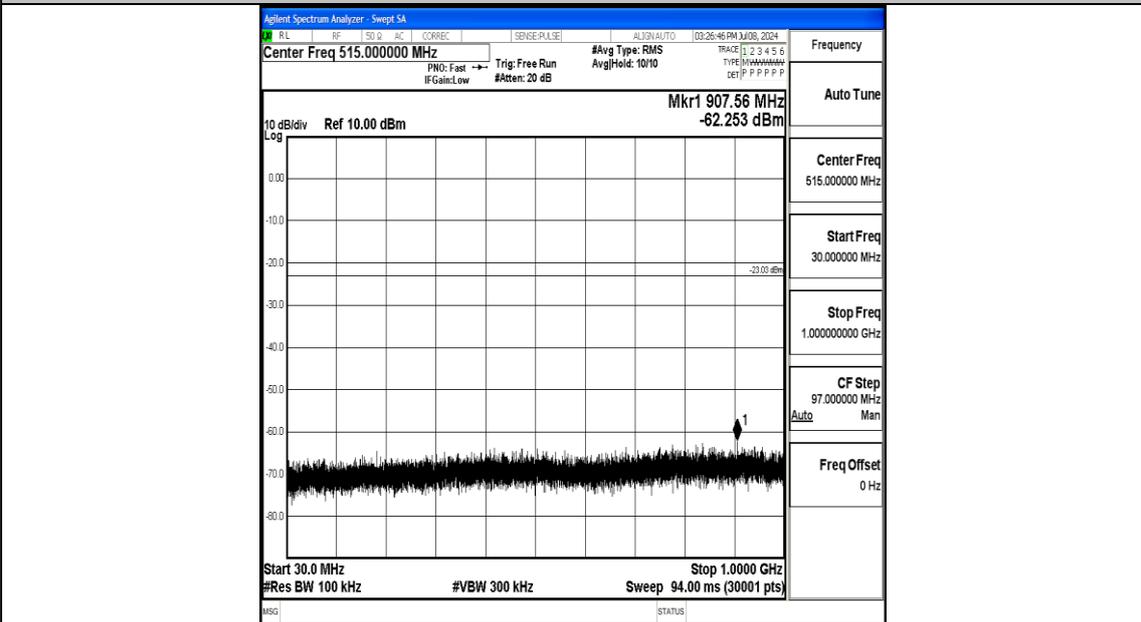
BLE\_1M-Ant1-2440-30~1000-PASS



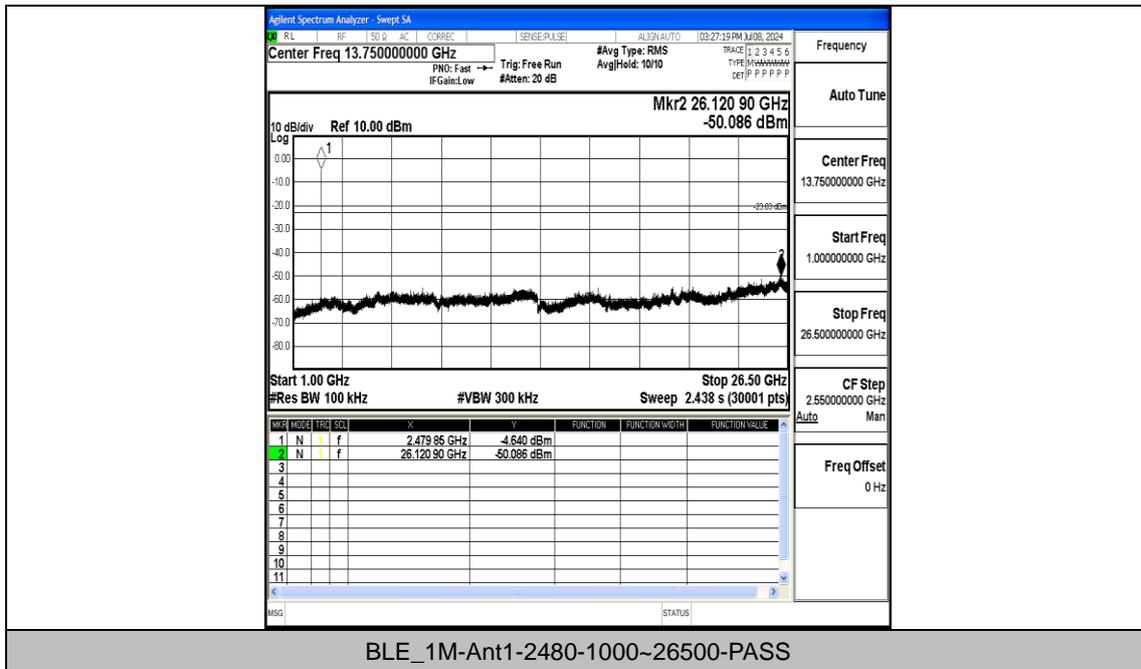
BLE\_1M-Ant1-2440-1000~26500-PASS



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



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

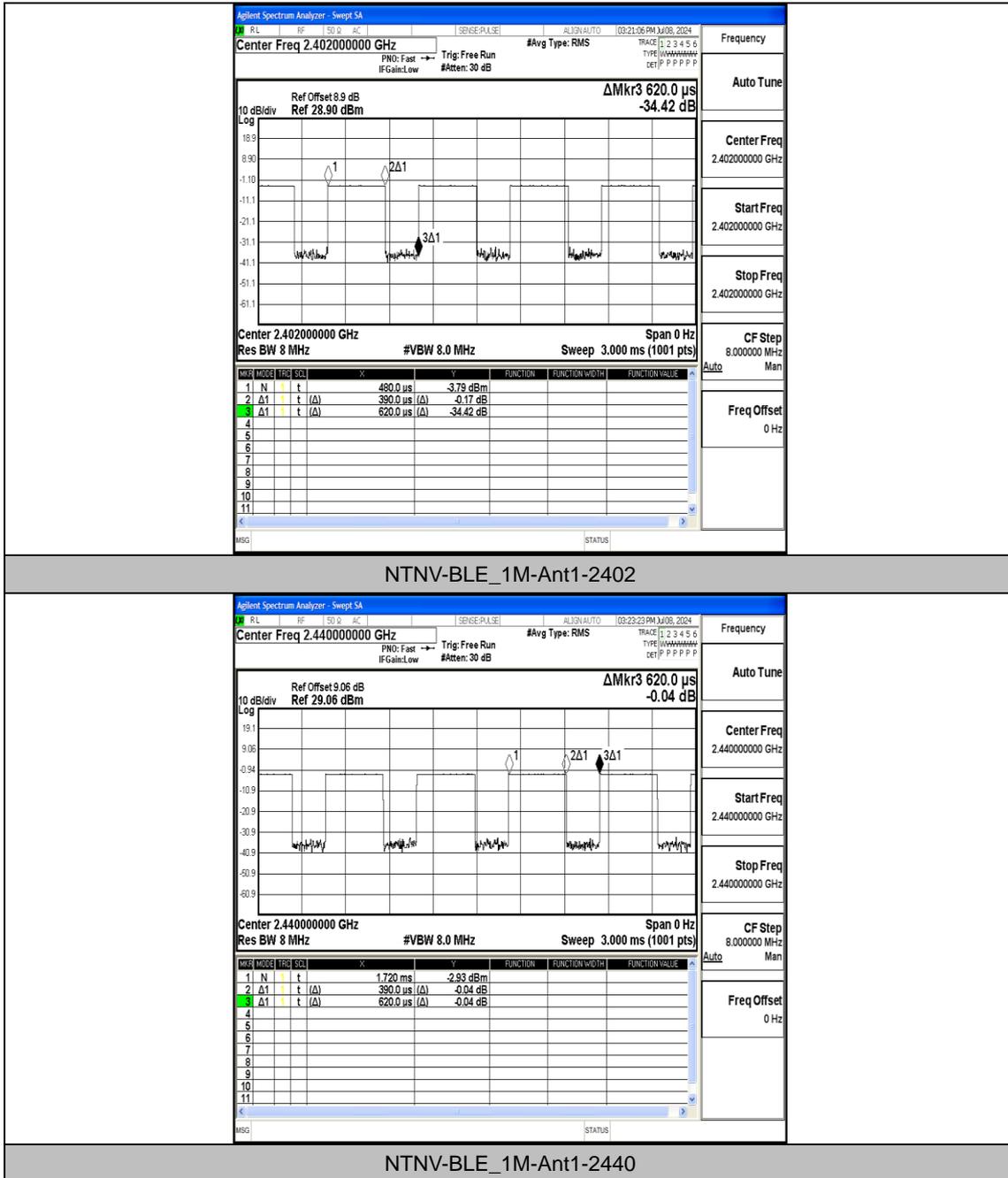


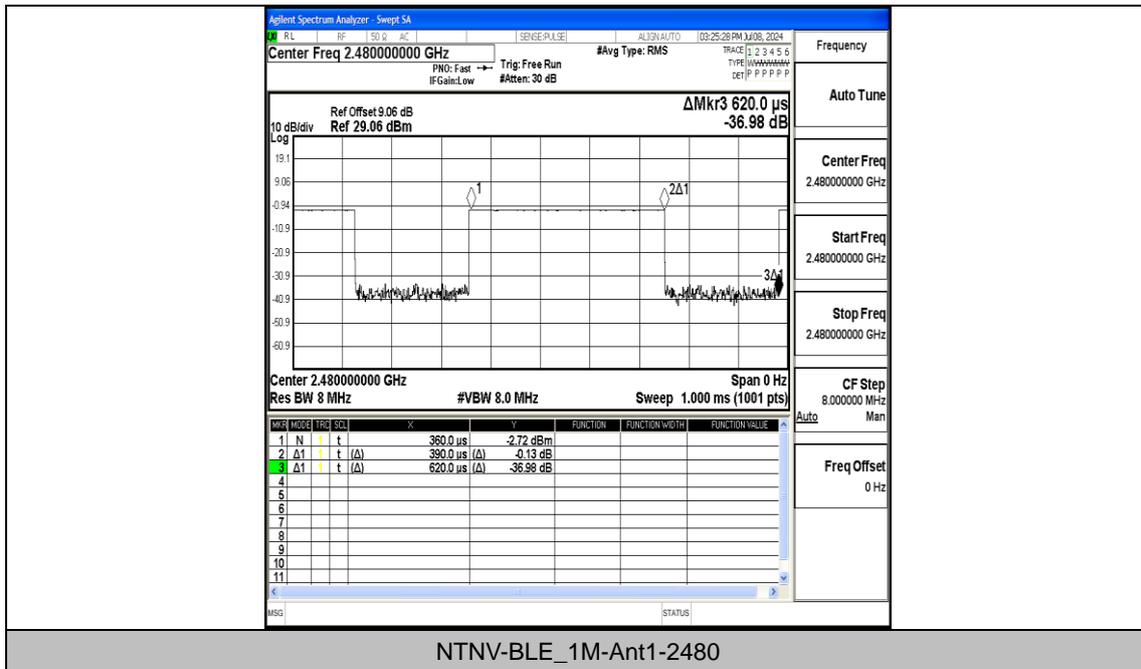
## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.39	0.62	62.90	2.01

### Test Graphs





NTNV-BLE\_1M-Ant1-2480