

Appendix: Bluetooth LE

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## Appendix A: DTS Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.684	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.696	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.708	2480.360	0.5	PASS

## Test Graphs









## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0676	2401.5050	2402.5726	---	---
BLE_1M	Ant1	2440	1.0650	2439.5111	2440.5761	---	---
BLE_1M	Ant1	2480	1.1373	2479.4971	2480.6344	---	---

## Test Graphs





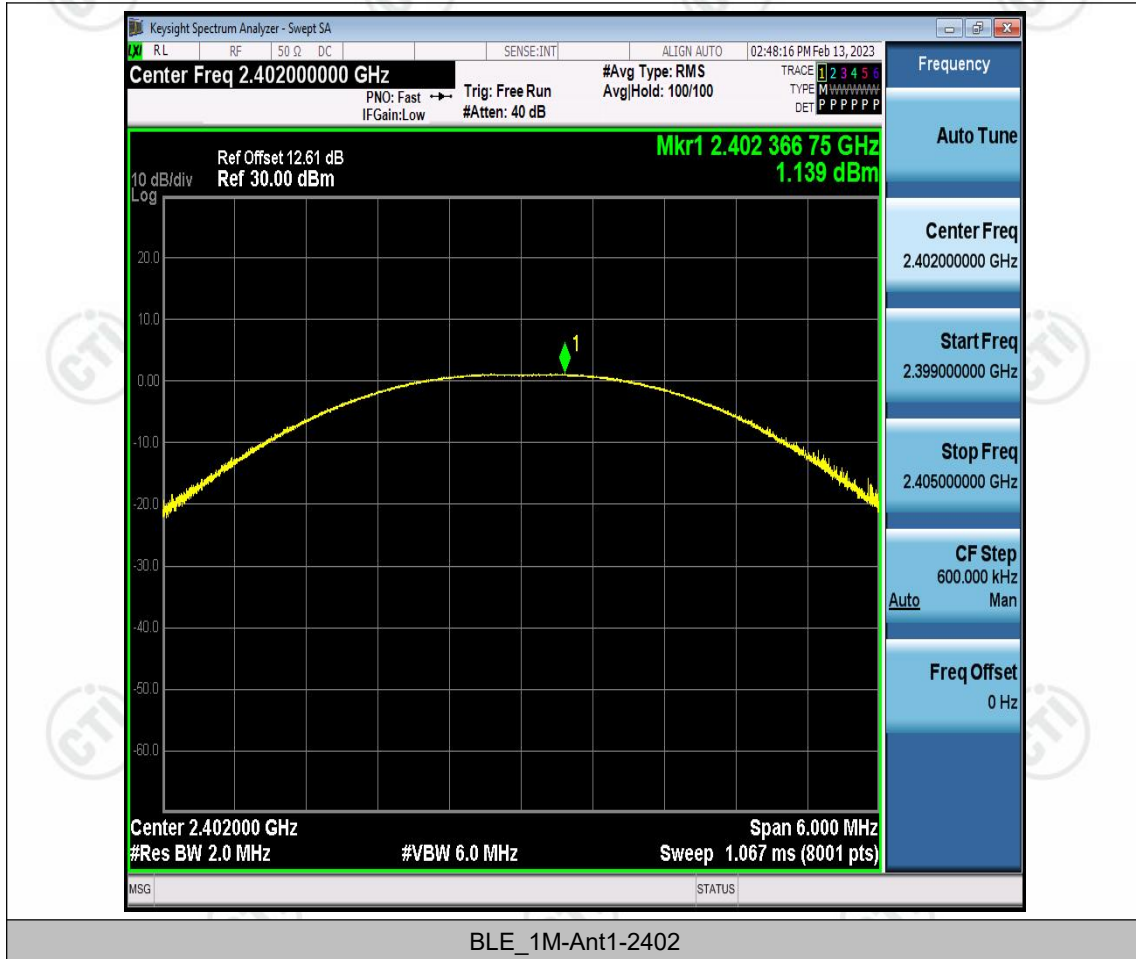


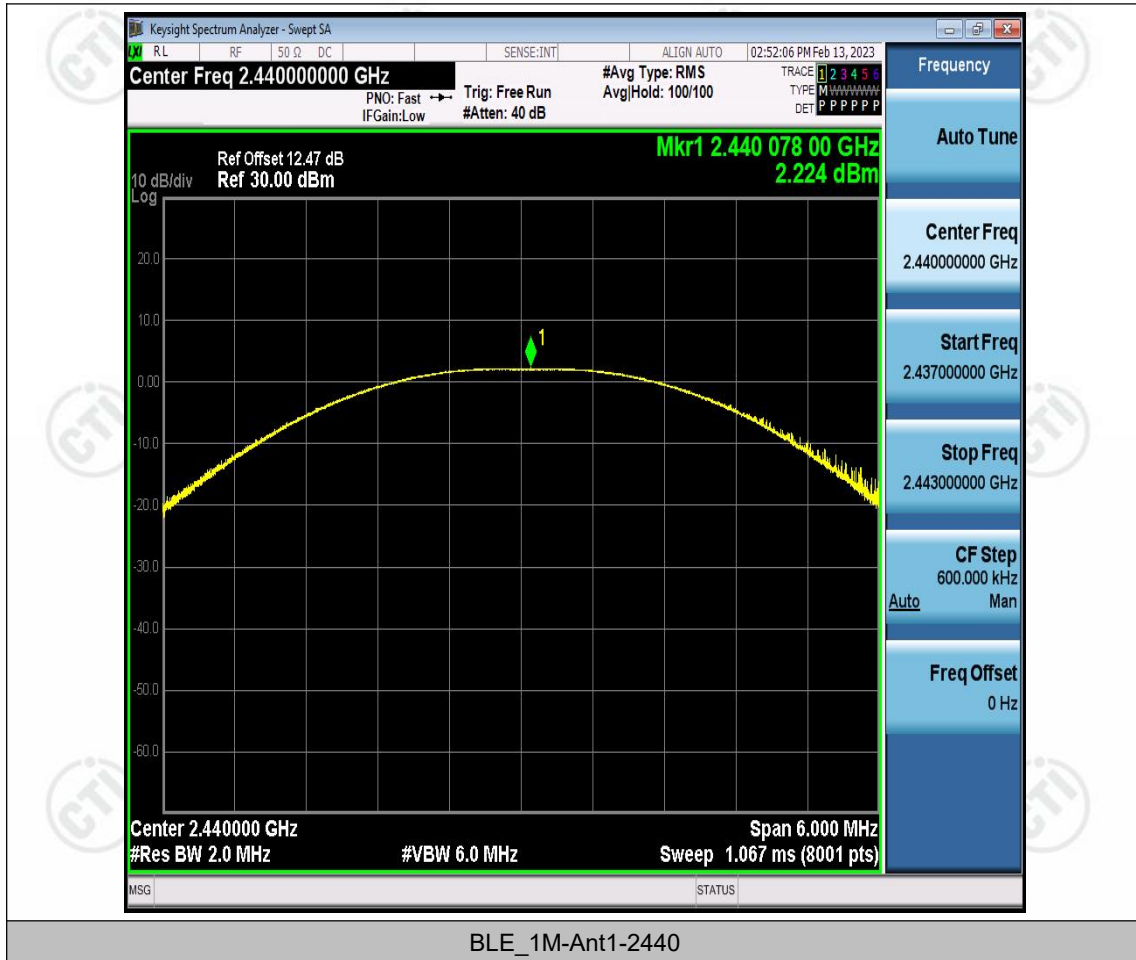


**Appendix C: Maximum conducted output power****Test Result**

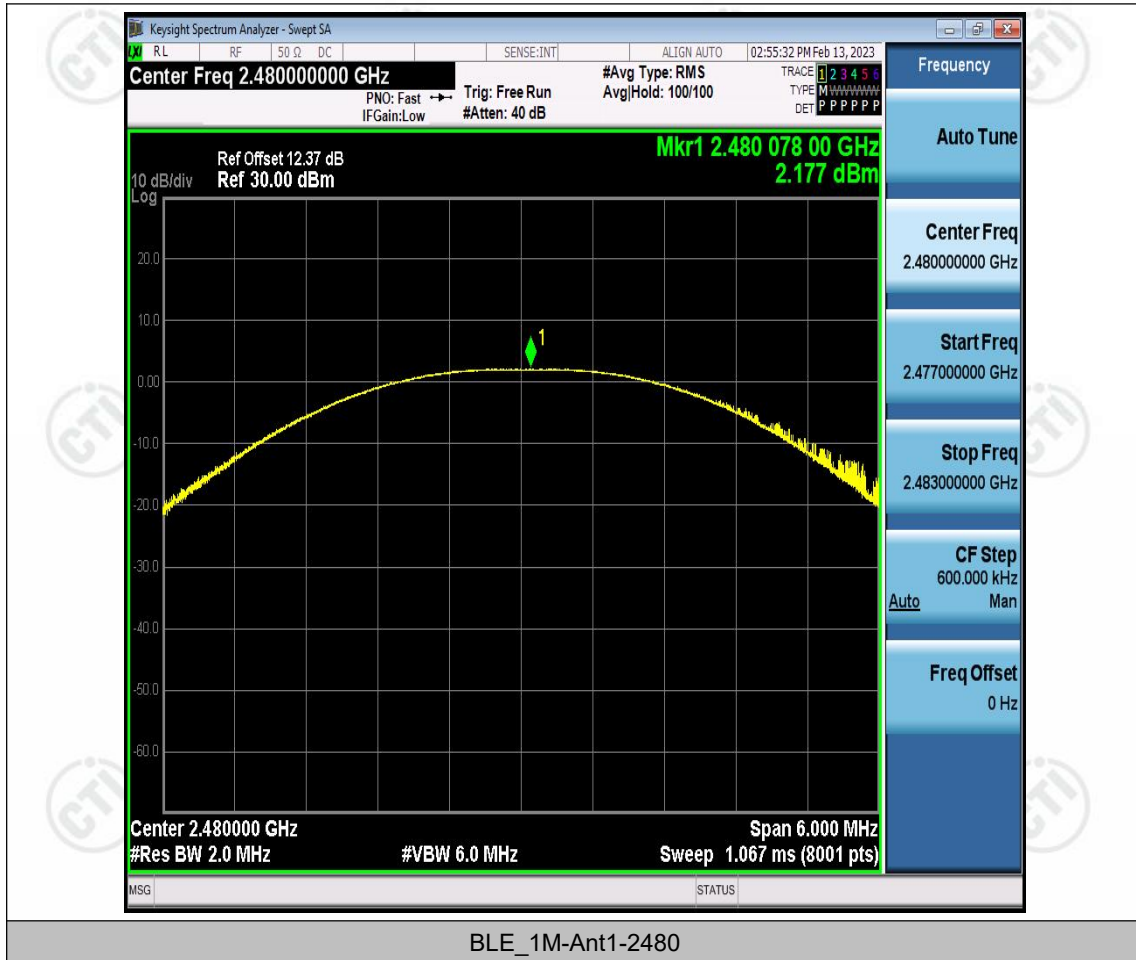
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.14	≤30	PASS
BLE_1M	Ant1	2440	2.22	≤30	PASS
BLE_1M	Ant1	2480	2.18	≤30	PASS

## Test Graphs









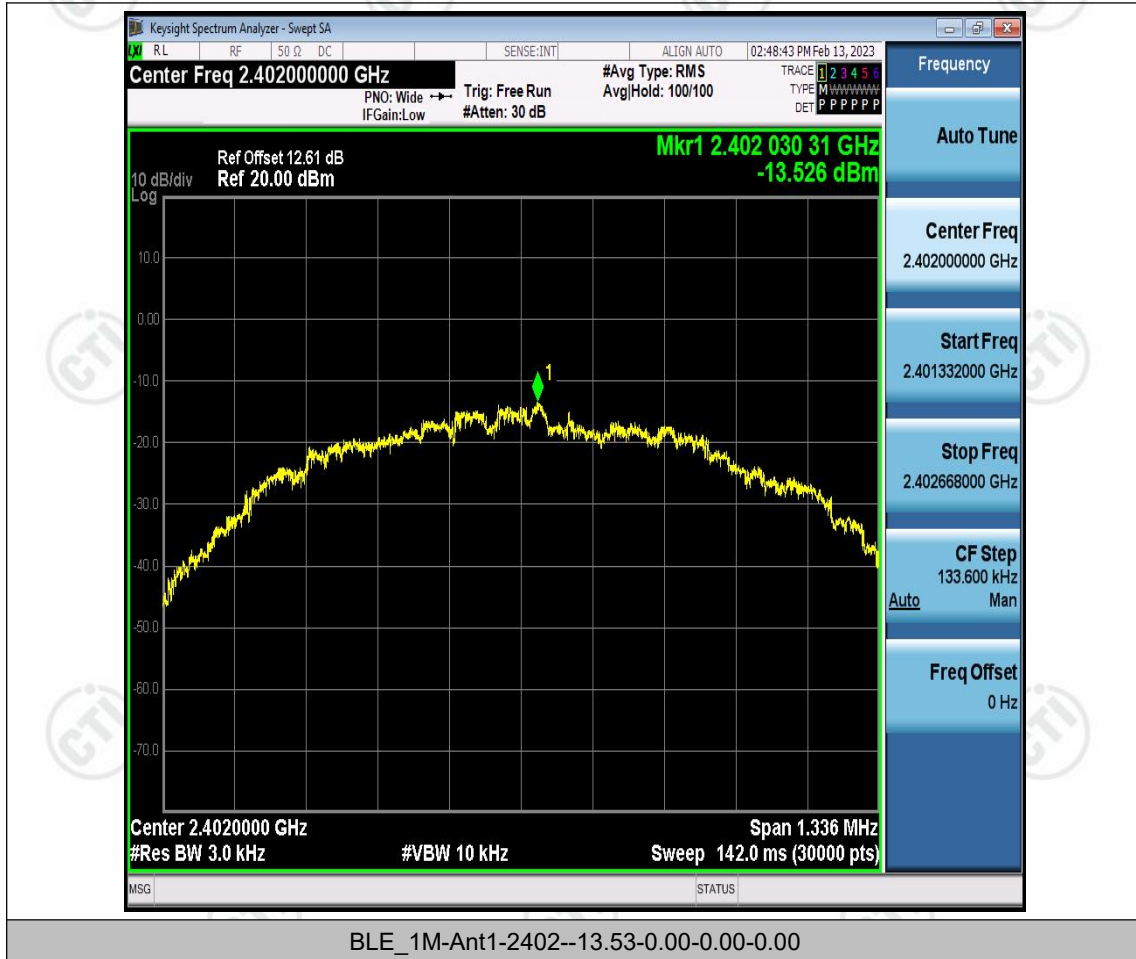


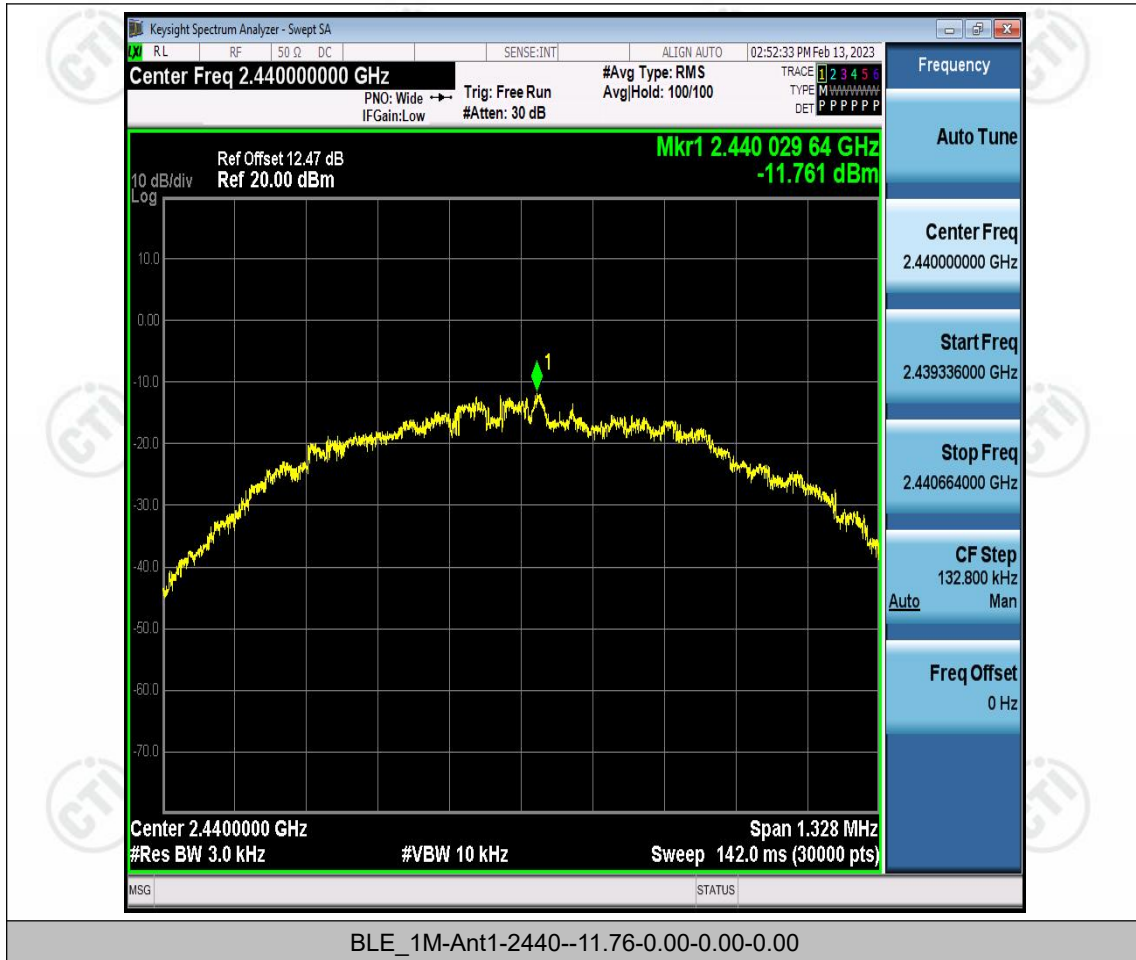
## Appendix D: Maximum power spectral density

### Test Result

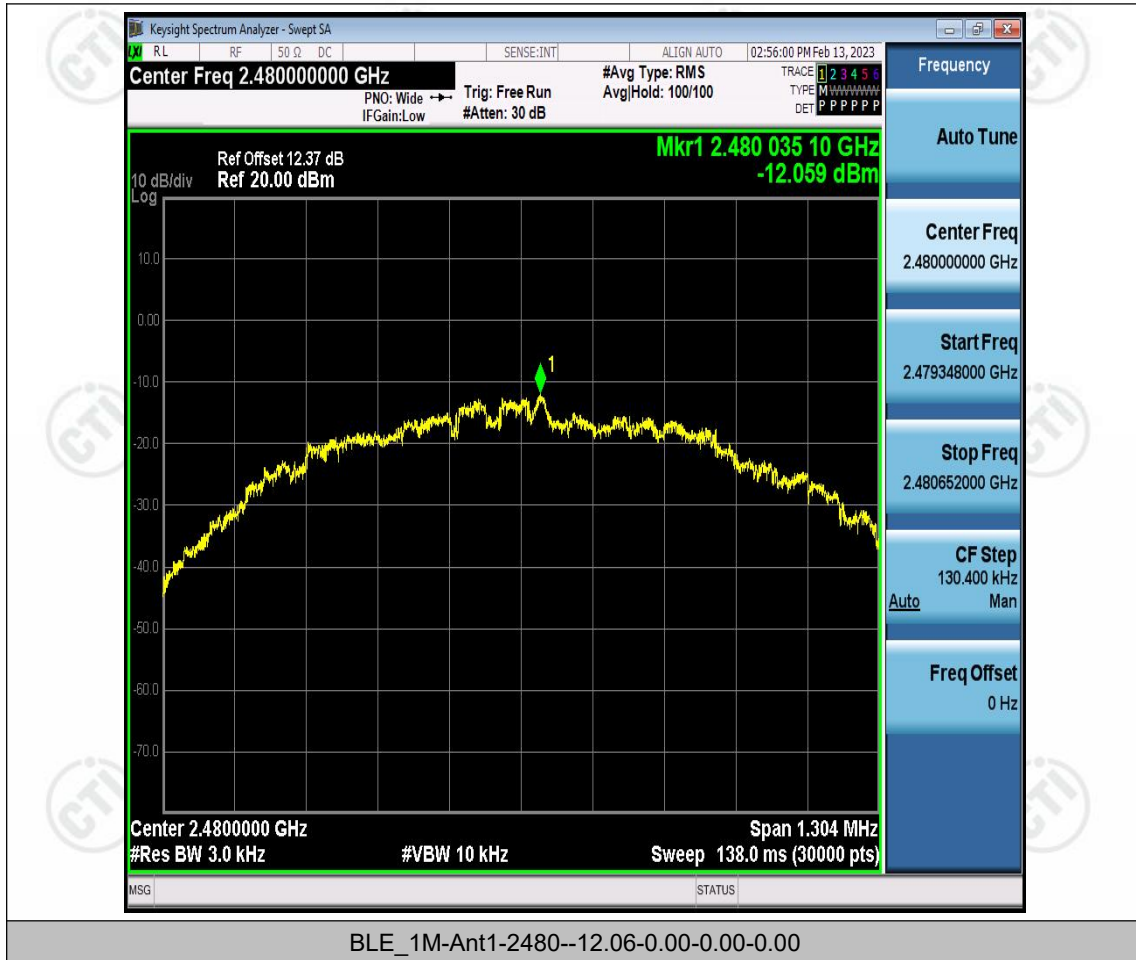
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.53	≤8.00	PASS
BLE_1M	Ant1	2440	-11.76	≤8.00	PASS
BLE_1M	Ant1	2480	-12.06	≤8.00	PASS

## Test Graphs





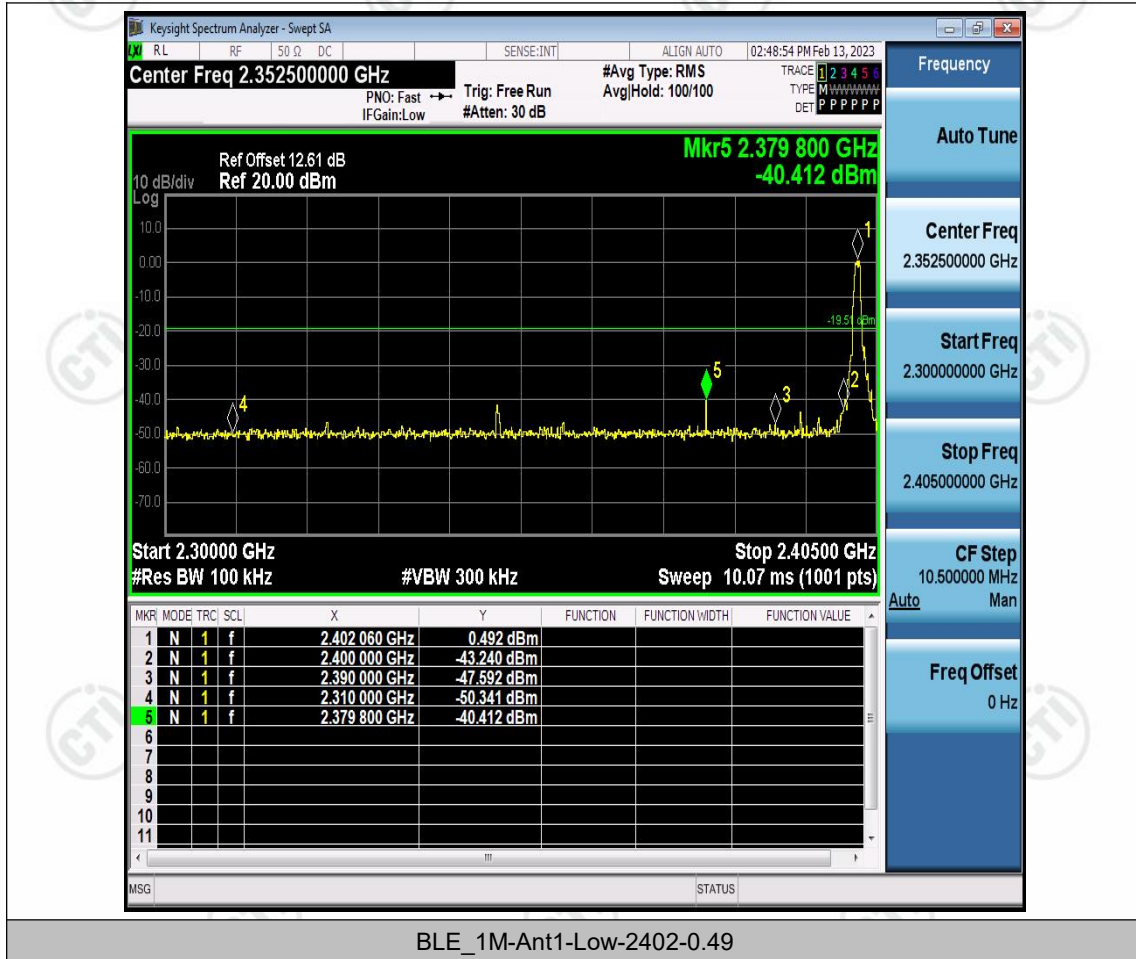
BLE\_1M-Ant1-2440--11.76-0.00-0.00-0.00



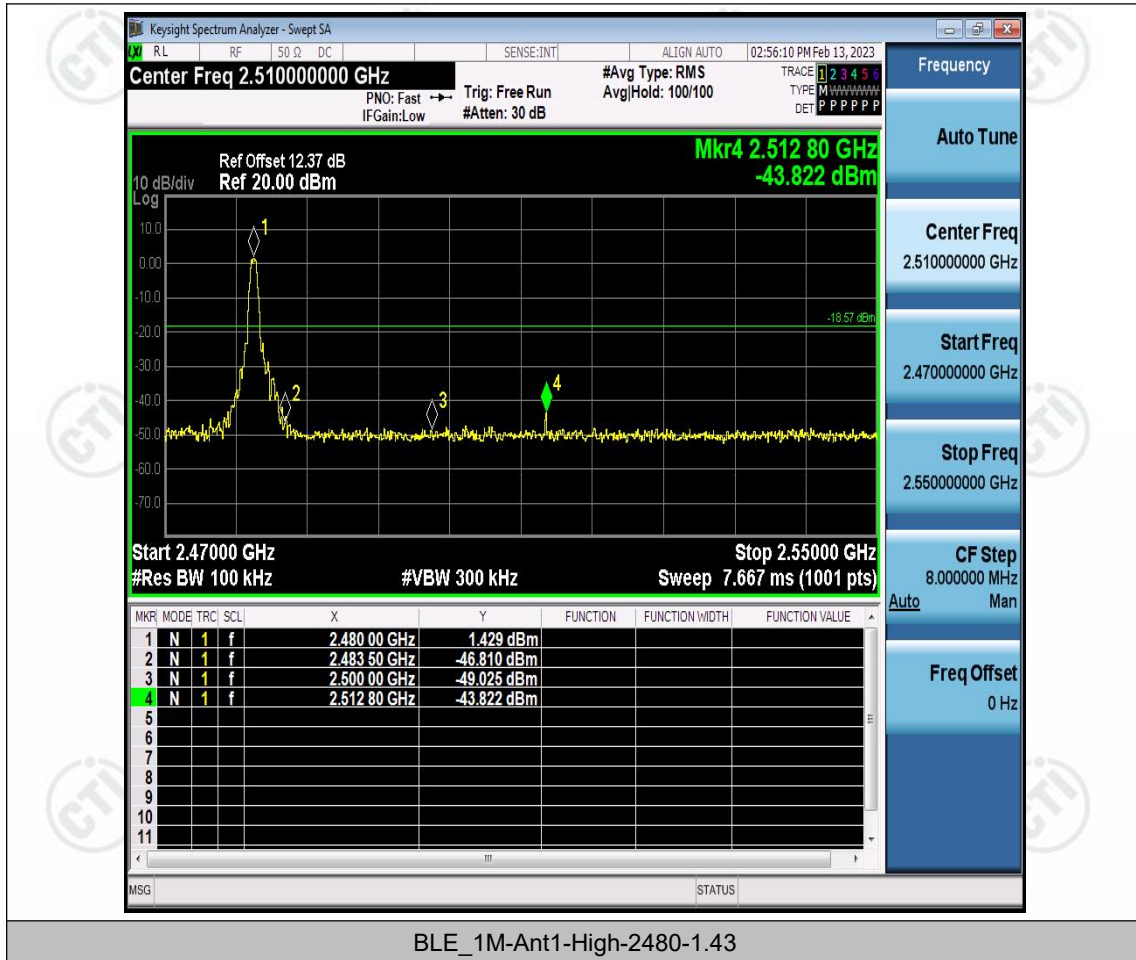
**Appendix E: Band edge measurements****Test Result**

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.49	-40.41	≤-19.51	PASS
BLE_1M	Ant1	High	2480	1.43	-43.82	≤-18.57	PASS

## Test Graphs



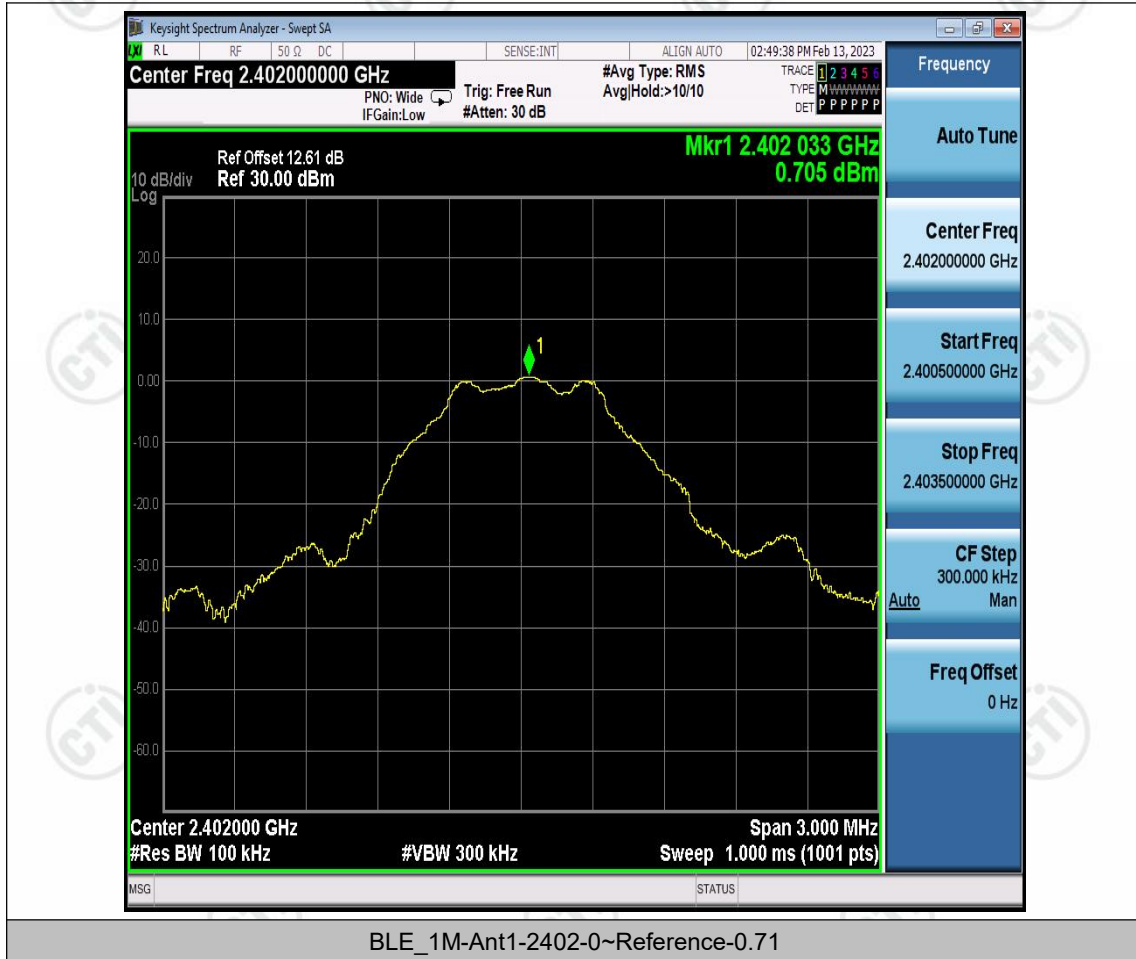


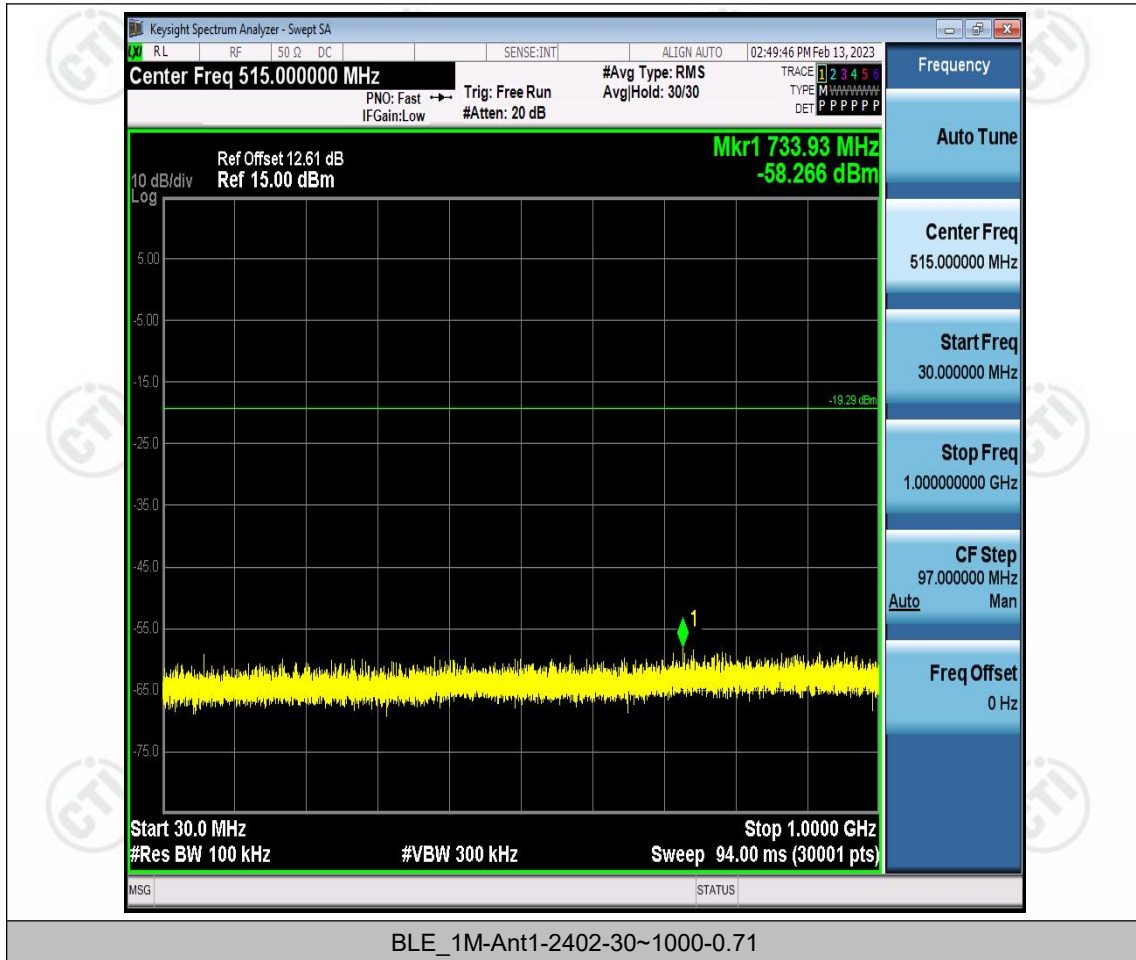


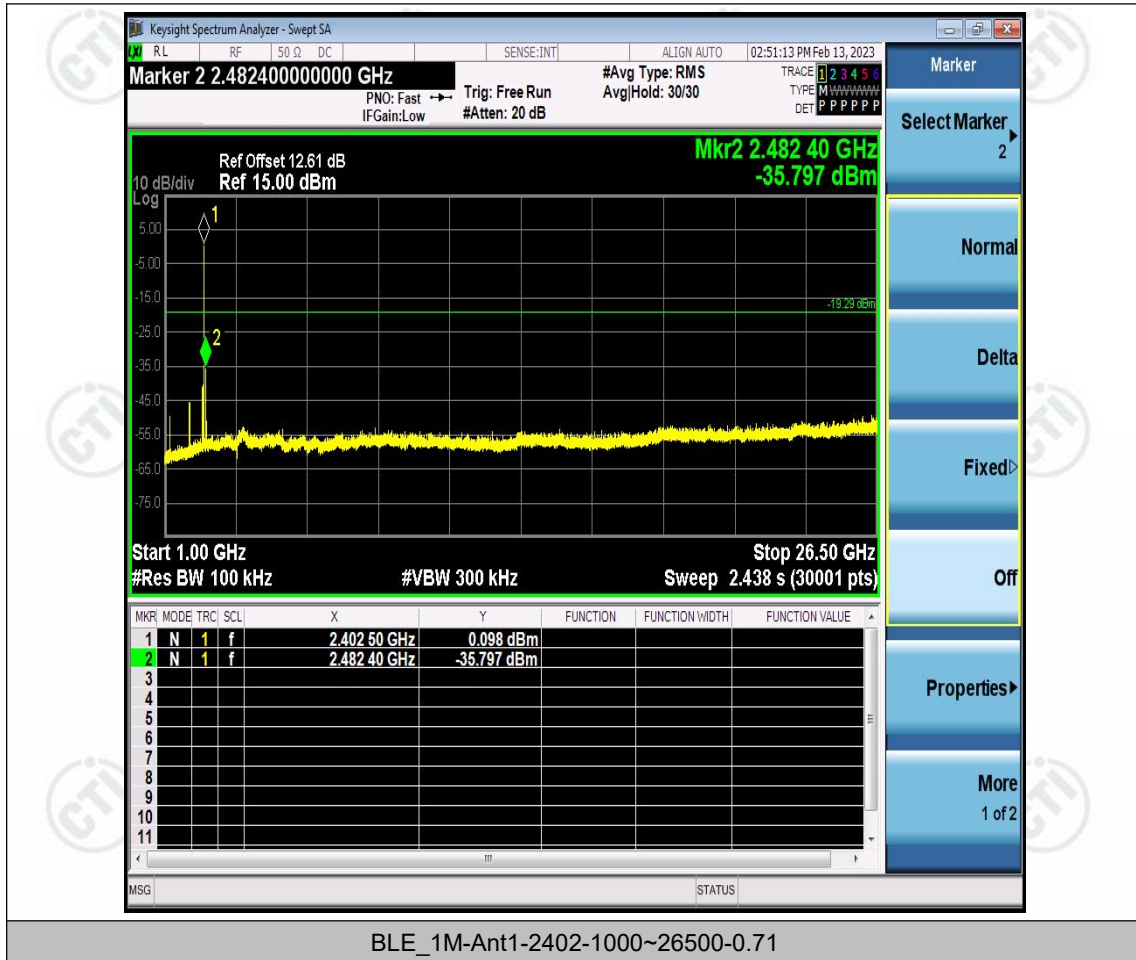
**Appendix F: Conducted Spurious Emission****Test Result**

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.71	0.71	---	PASS
BLE_1M	Ant1	2402	30~1000	0.71	-58.27	≤-19.29	PASS
BLE_1M	Ant1	2402	1000~26500	0.71	-35.8	≤-19.29	PASS
BLE_1M	Ant1	2440	0~Reference	1.94	1.94	---	PASS
BLE_1M	Ant1	2440	30~1000	1.94	-58.33	≤-18.06	PASS
BLE_1M	Ant1	2440	1000~26500	1.94	-41.52	≤-18.06	PASS
BLE_1M	Ant1	2480	0~Reference	1.78	1.78	---	PASS
BLE_1M	Ant1	2480	30~1000	1.78	-57.56	≤-18.22	PASS
BLE_1M	Ant1	2480	1000~26500	1.78	-49.58	≤-18.22	PASS

## Test Graphs





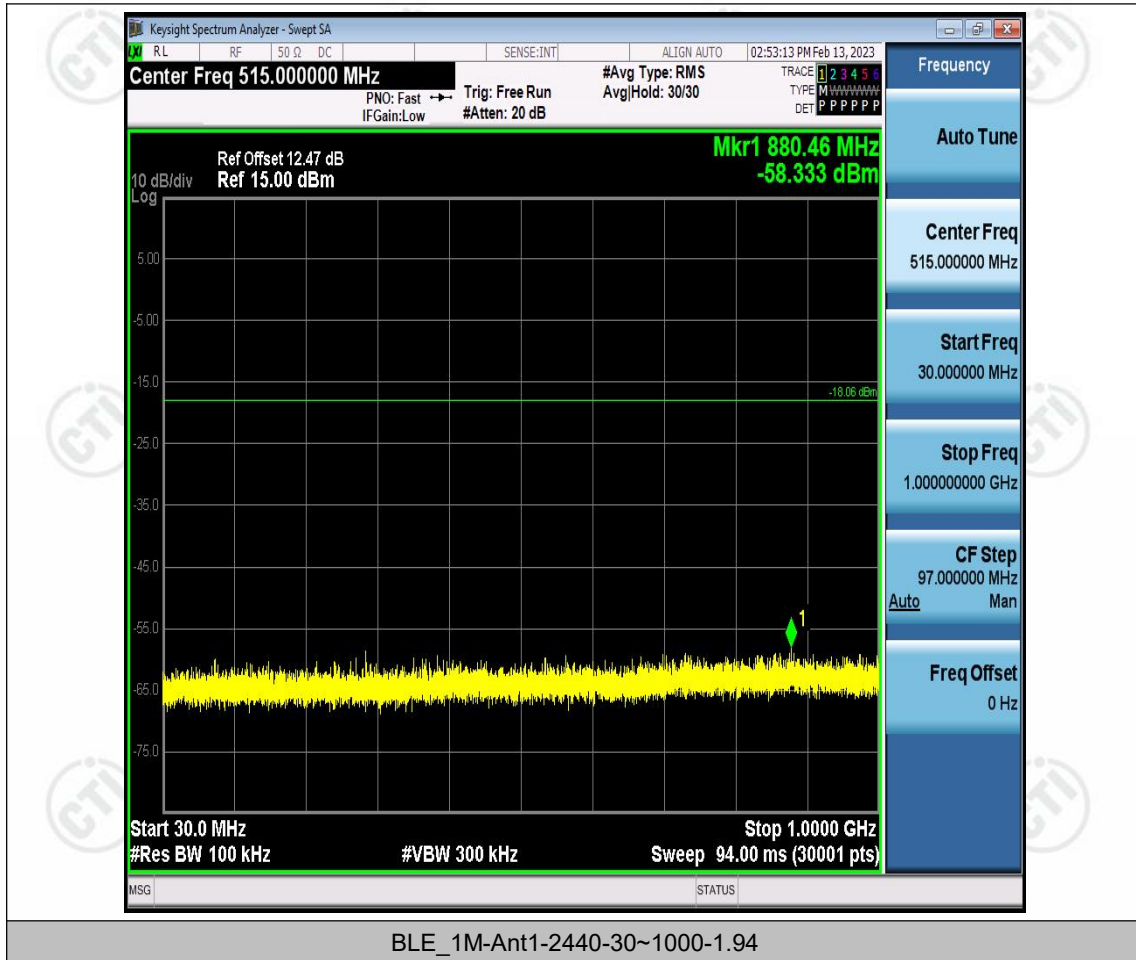


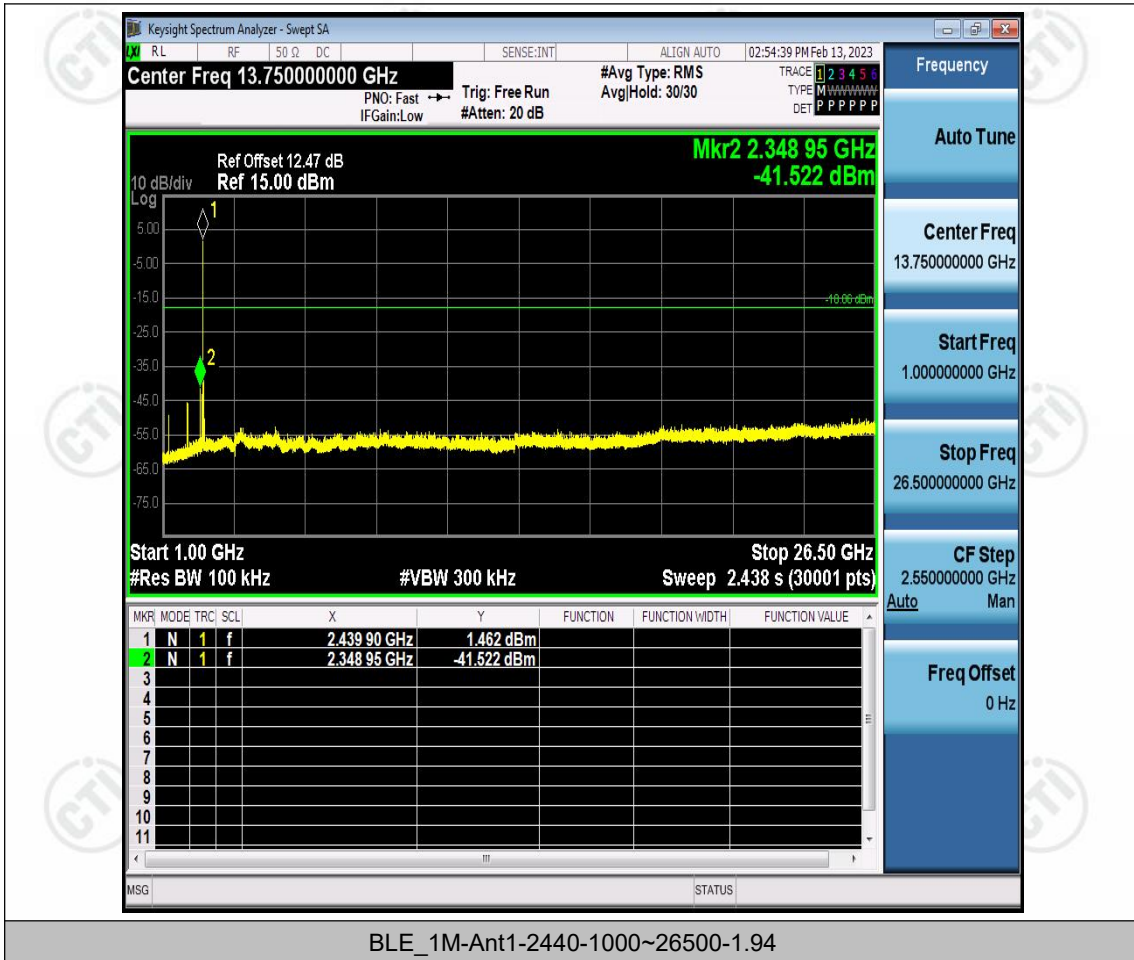




BLE\_1M-Ant1-2440-0~Reference-1.94

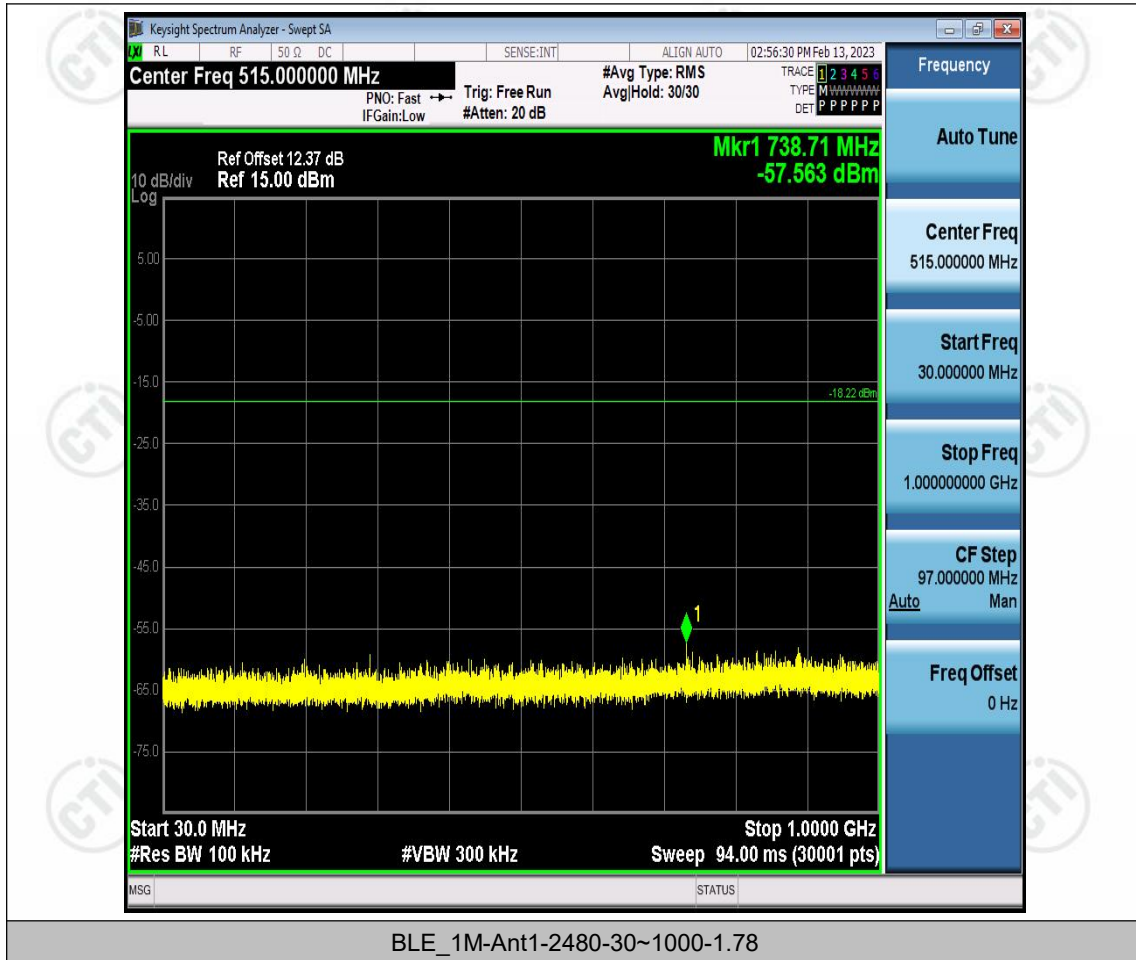


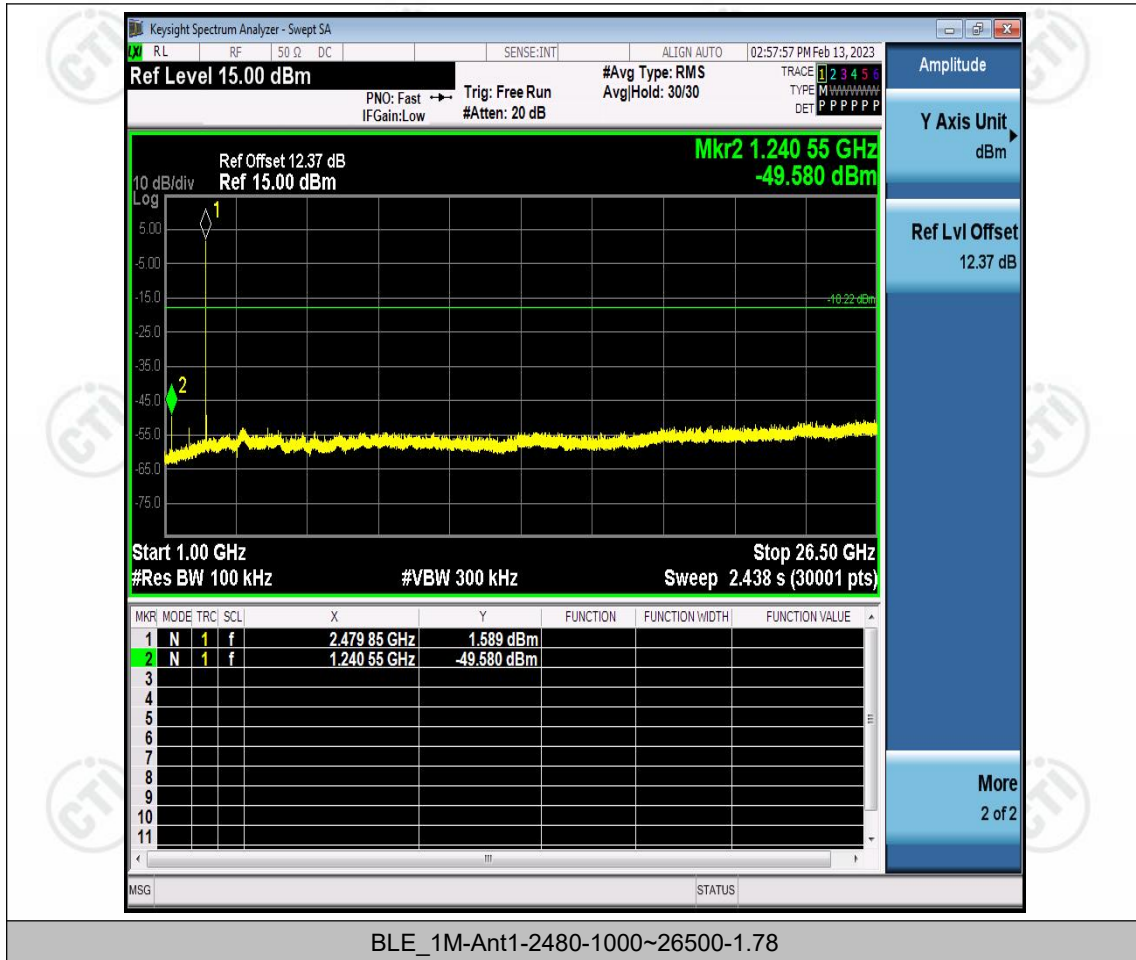






BLE\_1M-Ant1-2480-0~Reference-1.78







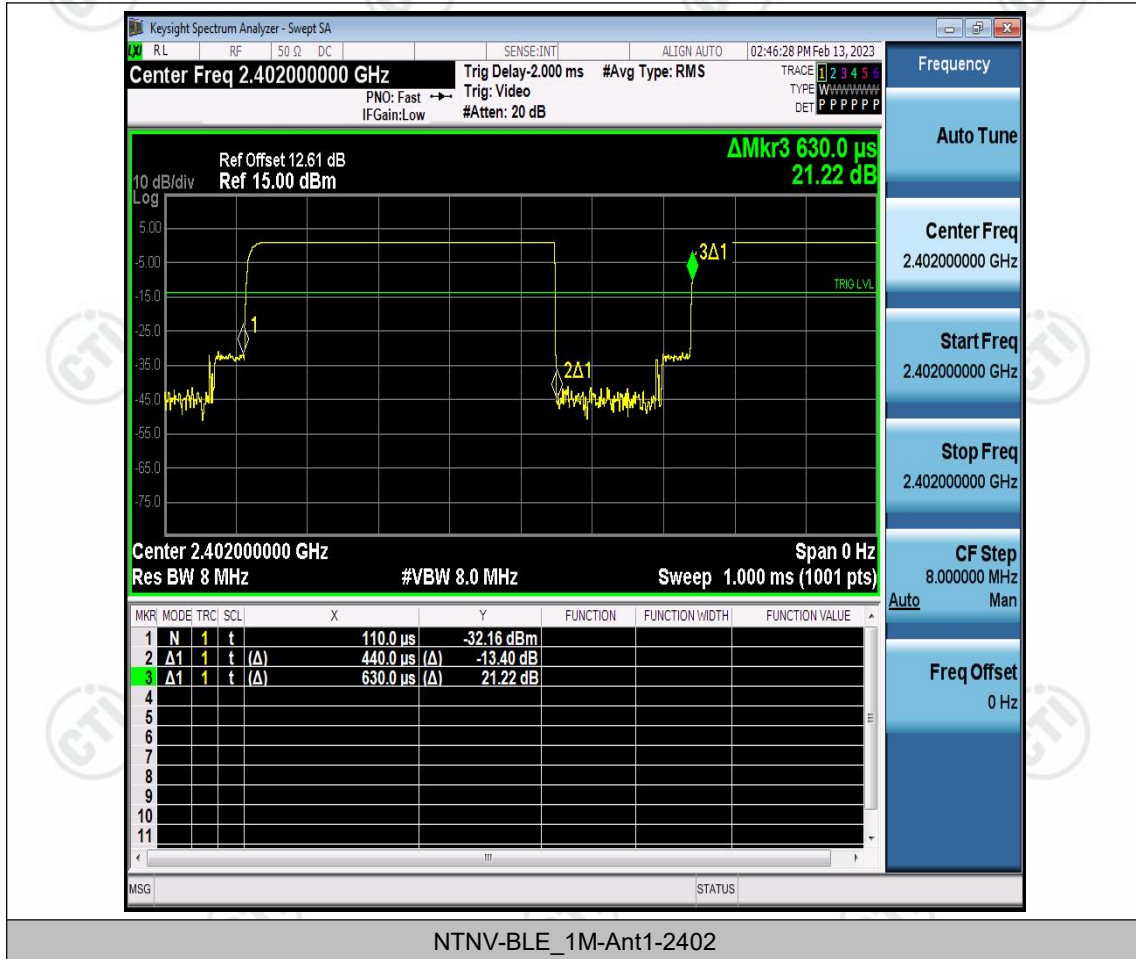
## Appendix G: Duty Cycle

### Test Result

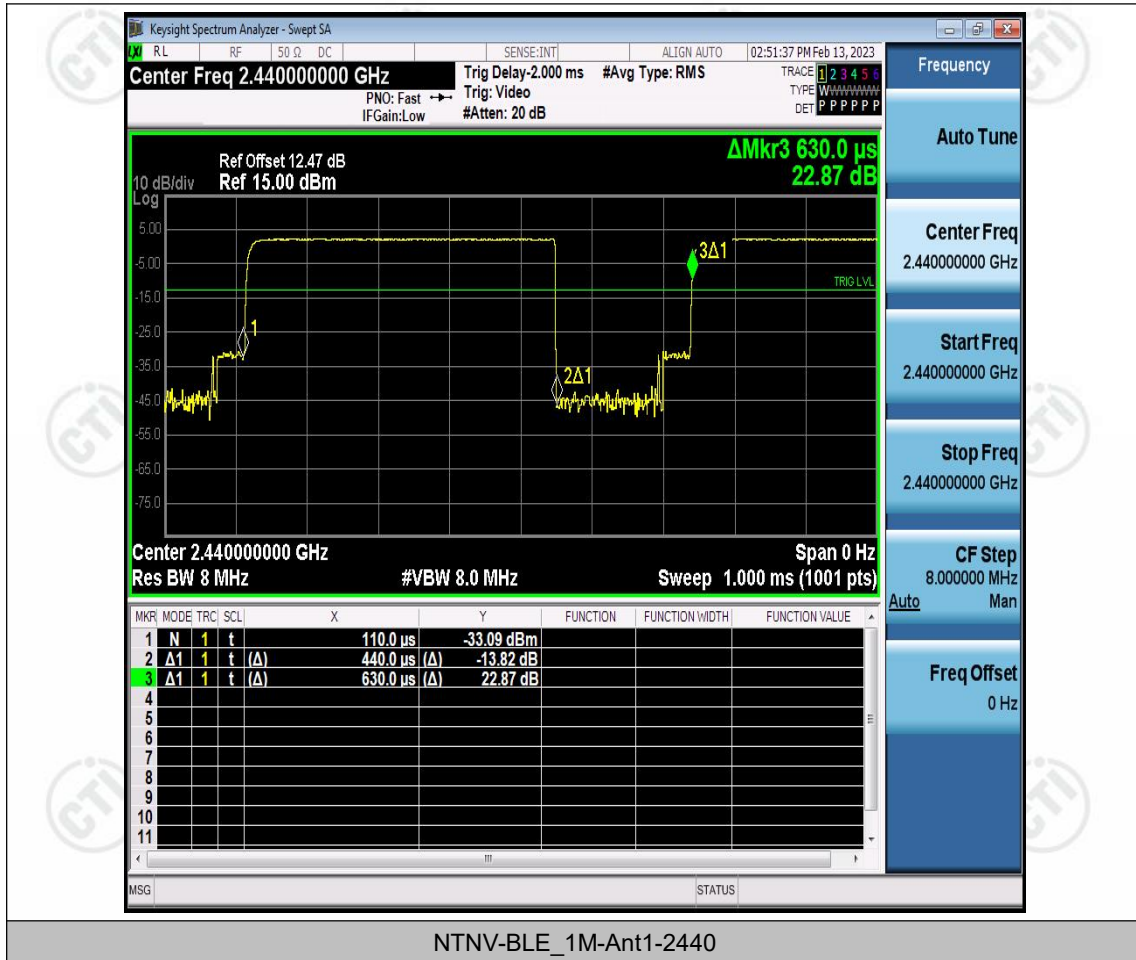
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.44	0.63	69.84	1.56
BLE_1M	Ant1	2440	0.44	0.63	69.84	1.56
BLE_1M	Ant1	2480	0.43	0.62	69.35	1.59



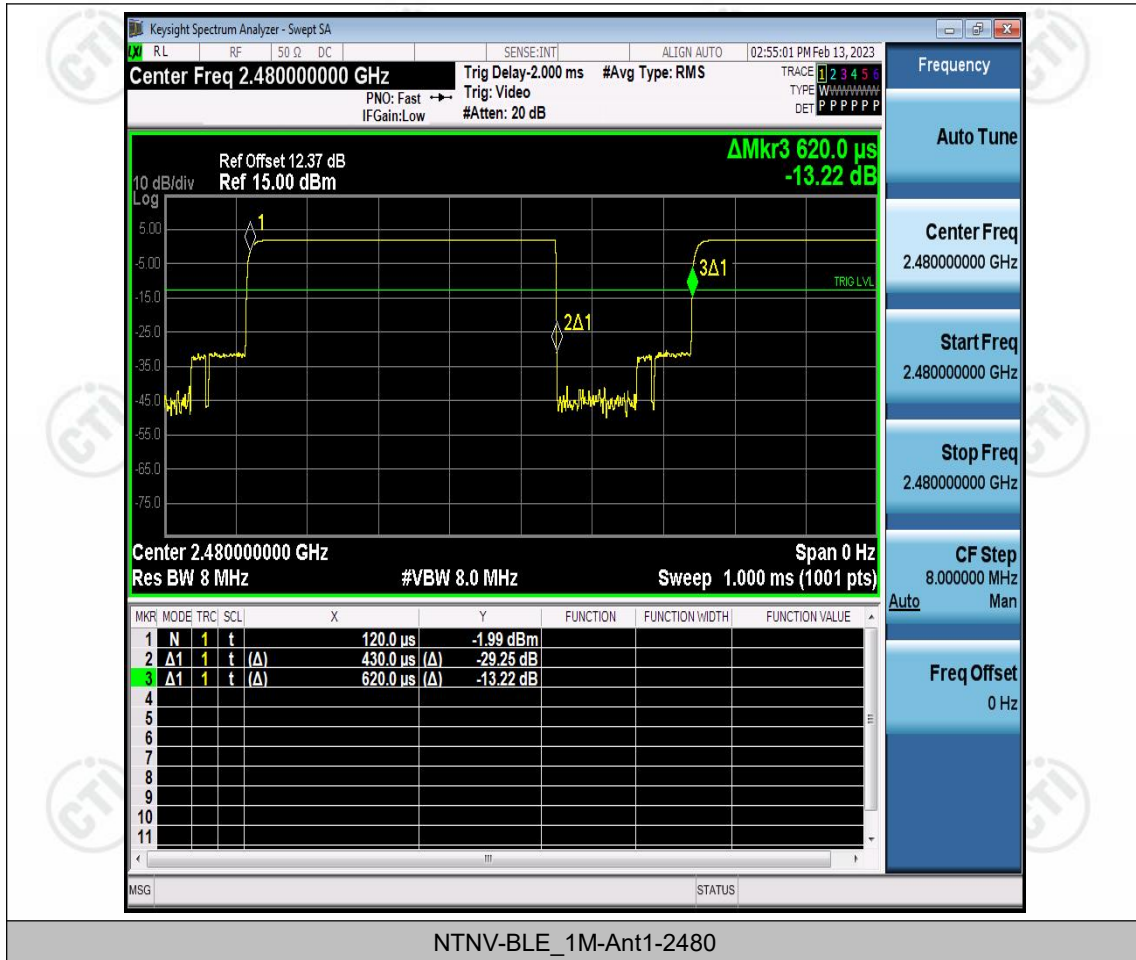
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

\*\*\* End of Report \*\*\*