

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Ambient Light

Trade Mark: ALPINE STYLE

Test Model: KTX-AMB1

FCC ID: 2BFB2-KTX-AMB1S

Environmental Conditions

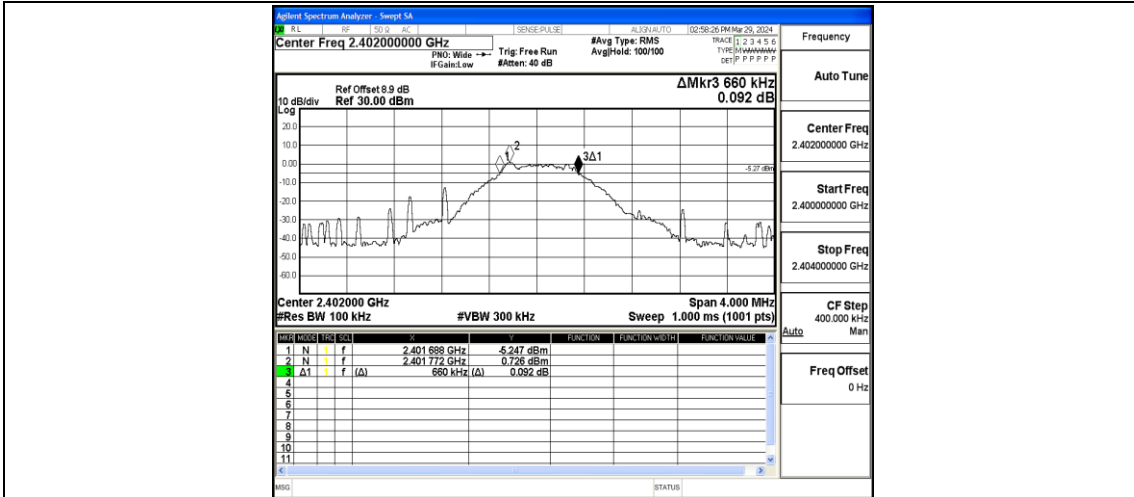
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

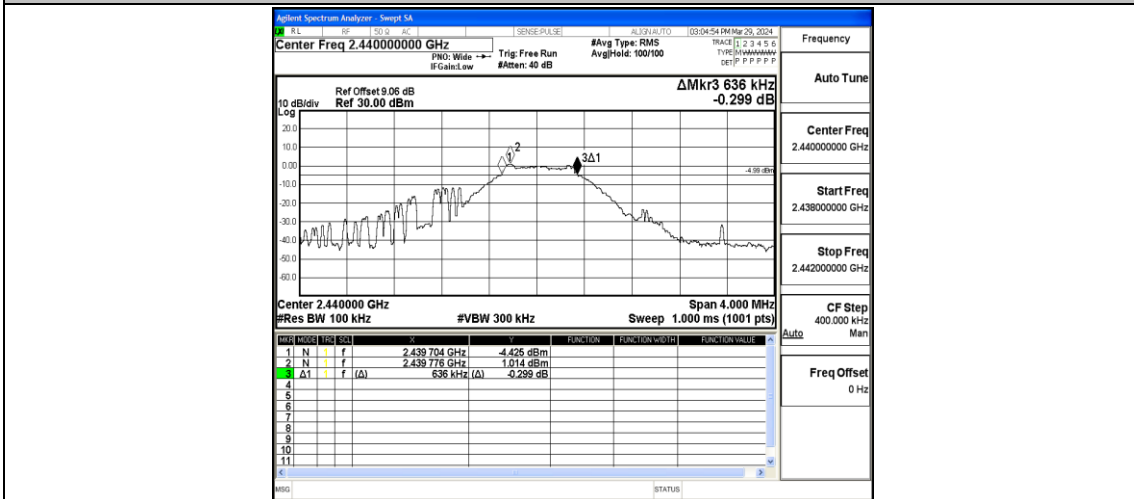
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.688	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.704	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.692	2480.352	0.5	PASS

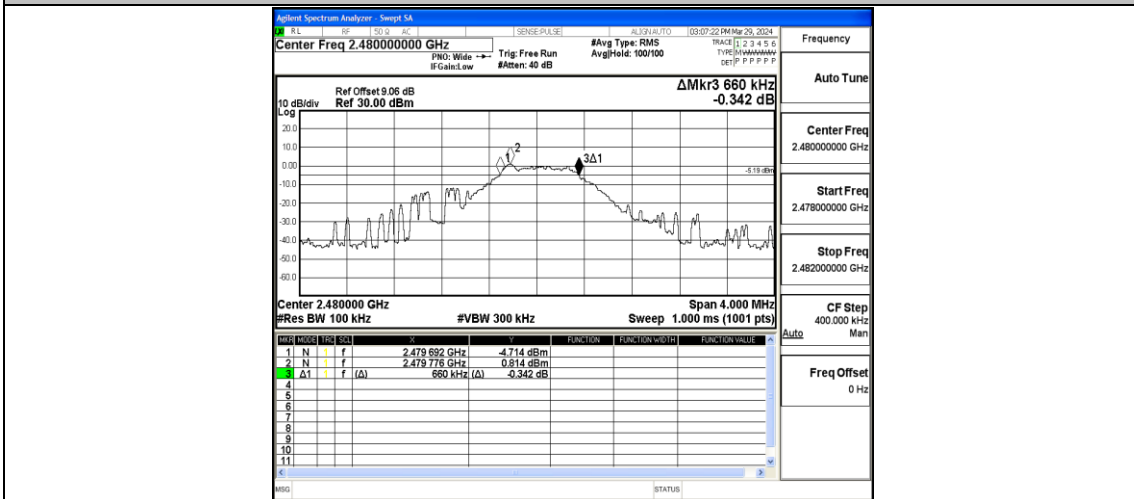
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-244-PASS



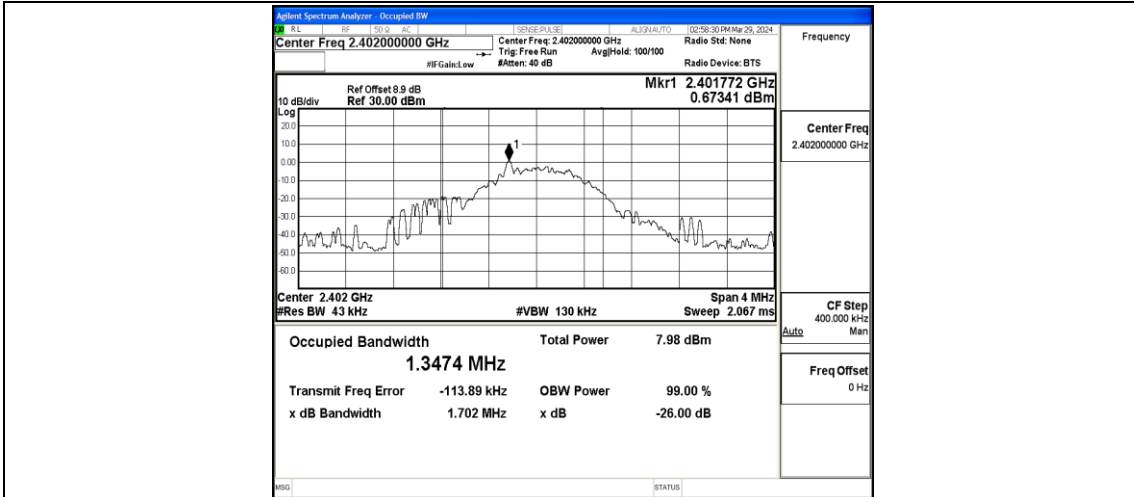
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

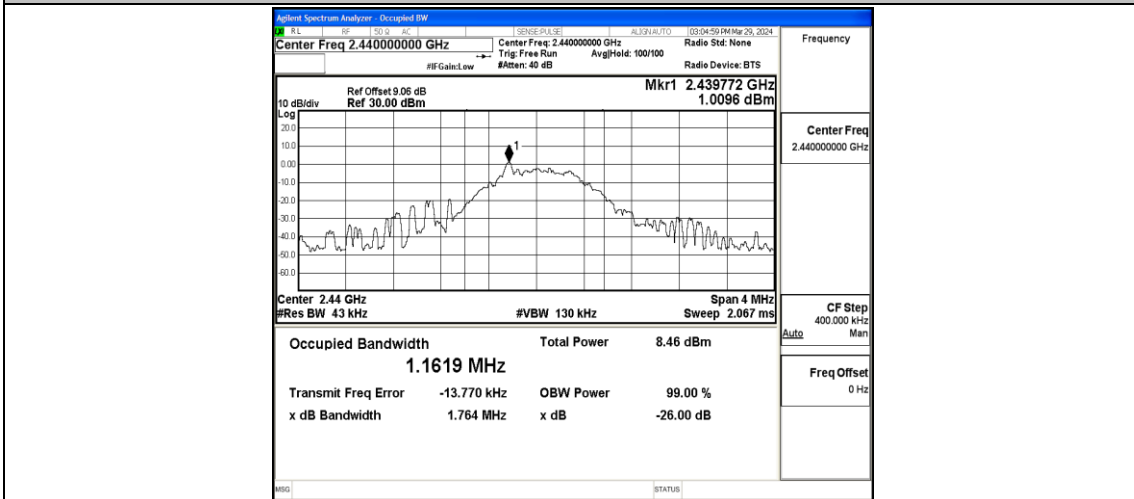
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.3474	2401.2124	2402.5598	---	---
BLE_1M	Ant1	2440	1.1619	2439.4053	2440.5672	---	---
BLE_1M	Ant1	2480	1.3159	2479.2445	2480.5604	---	---

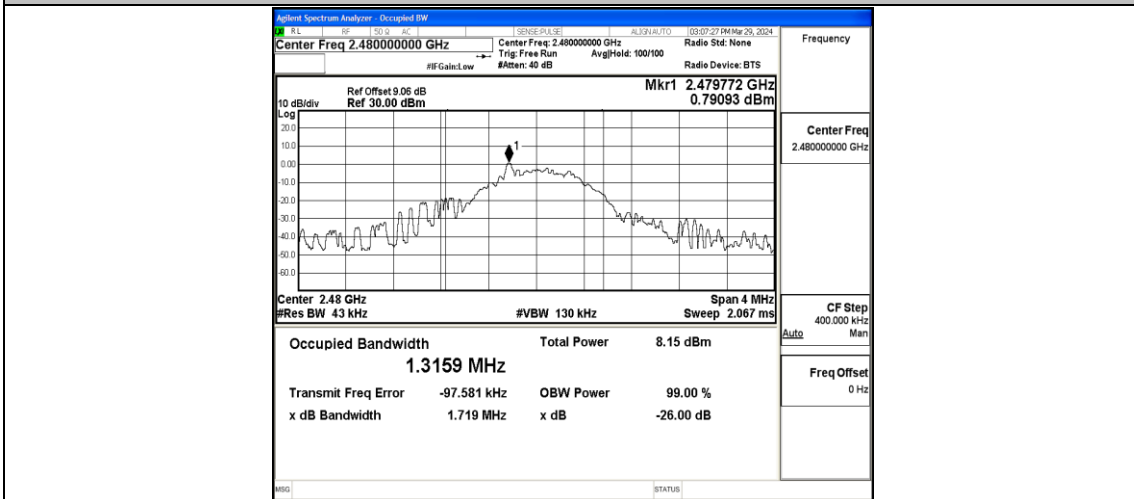
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



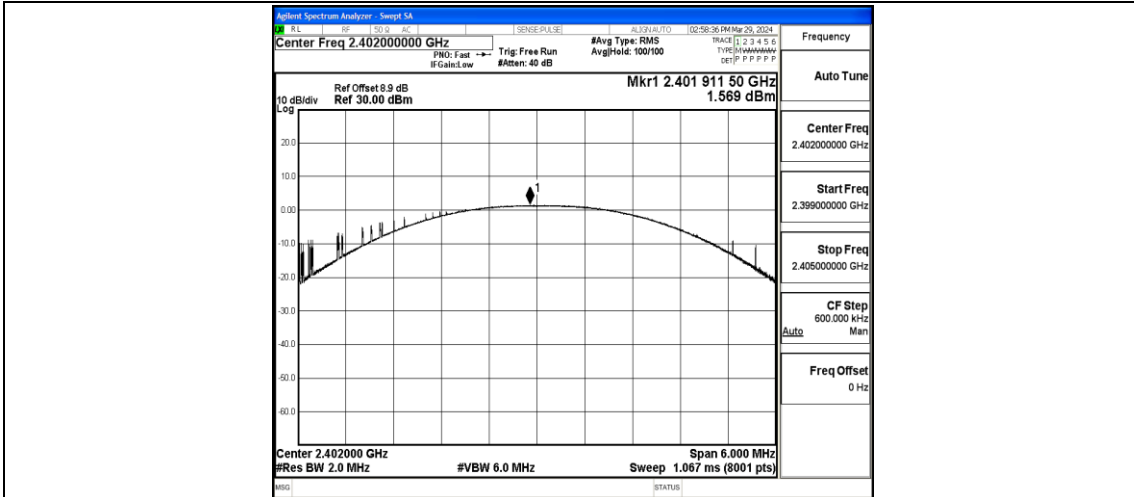
BLE_1M-Ant1-2480

Appendix C: Maximum peak conducted output power

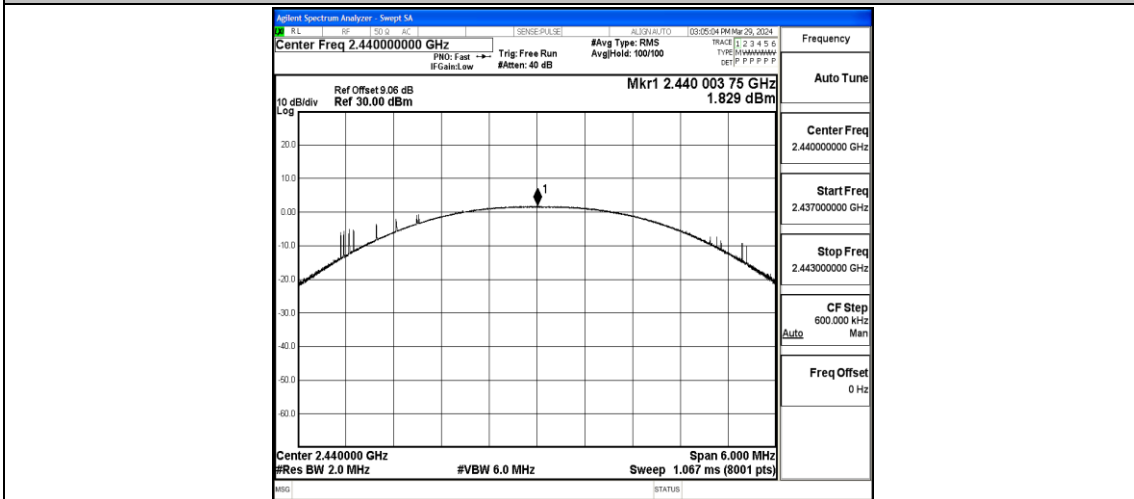
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.57	≤30	PASS
BLE_1M	Ant1	2440	1.83	≤30	PASS
BLE_1M	Ant1	2480	1.62	≤30	PASS

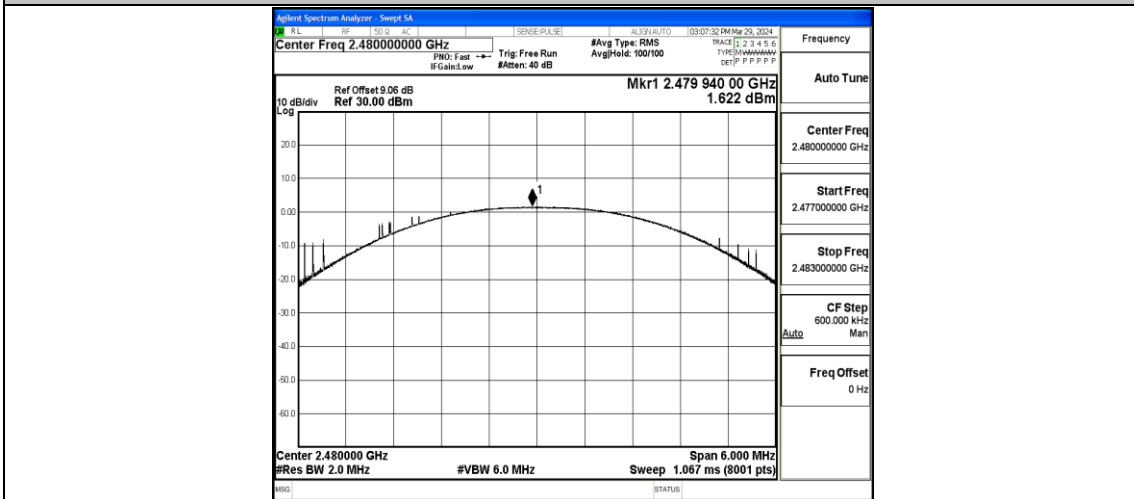
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



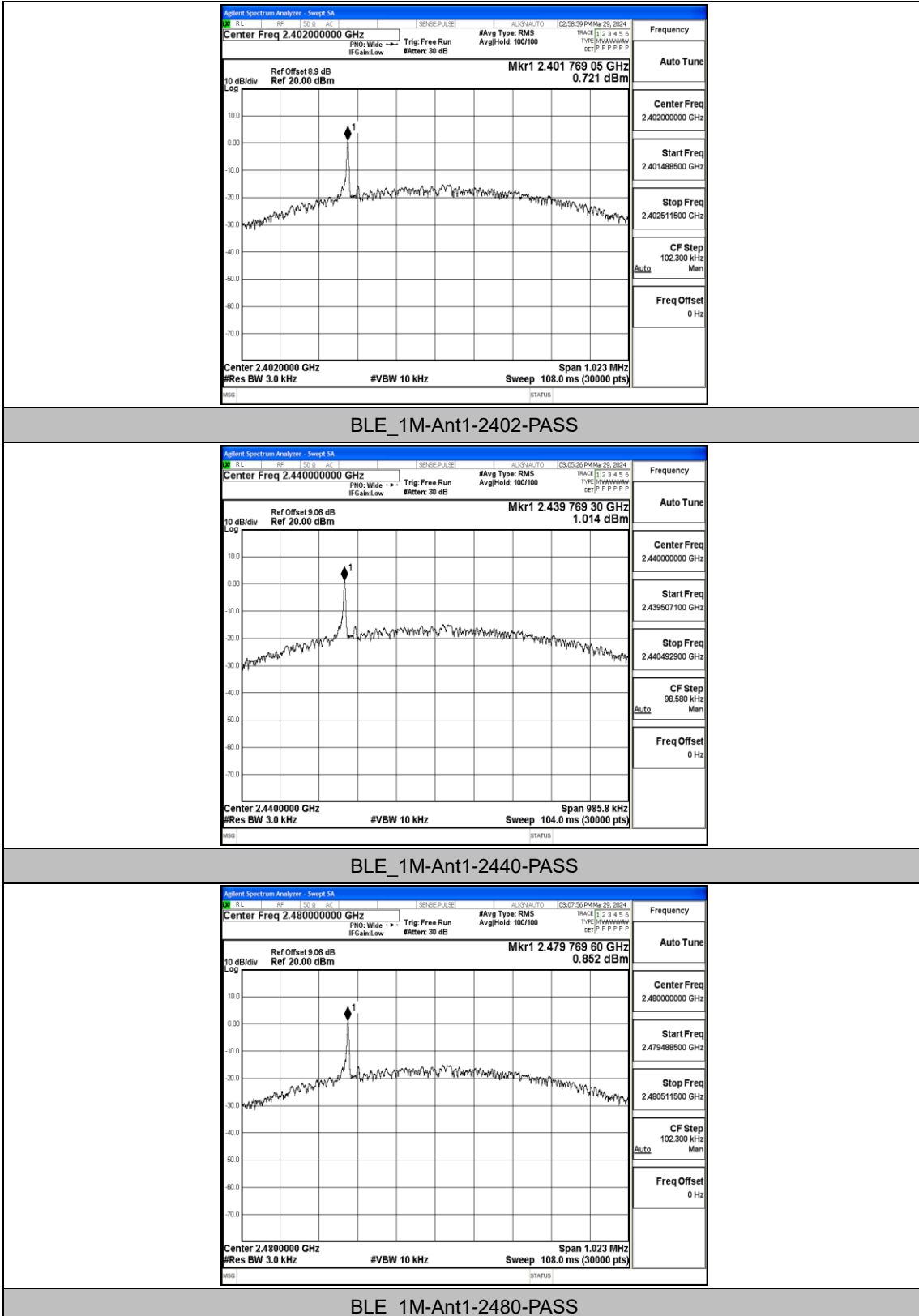
BLE_1M-Ant1-2480-PASS

Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	0.72	≤8.00	PASS
BLE_1M	Ant1	2440	1.01	≤8.00	PASS
BLE_1M	Ant1	2480	0.85	≤8.00	PASS

Test Graphs

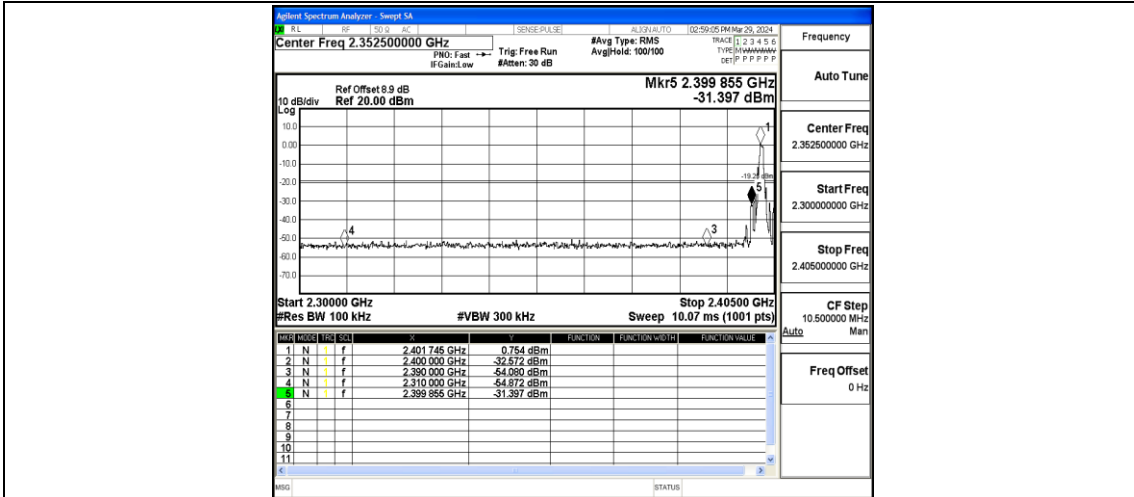


Appendix E: Band edge measurements

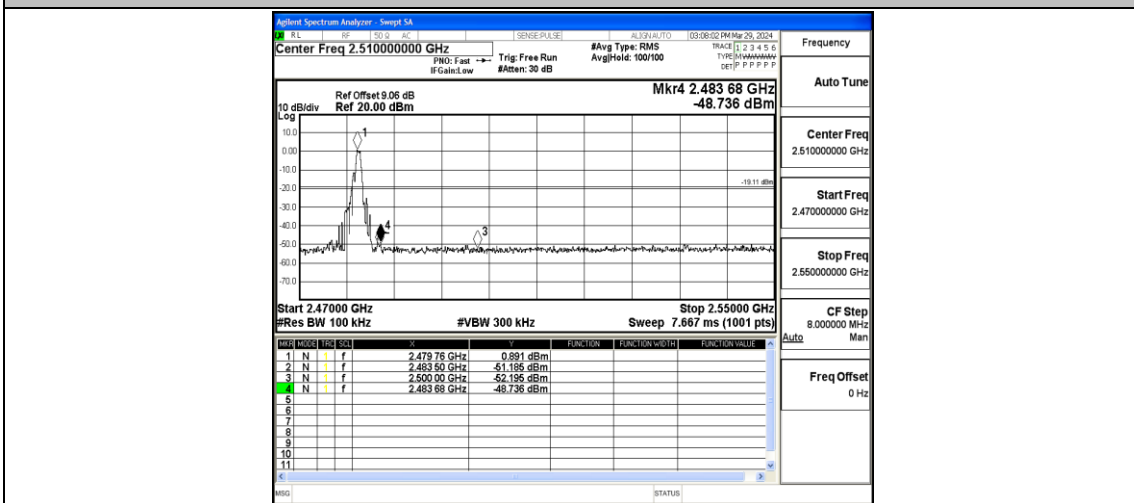
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.75	-31.4	≤-19.25	PASS
BLE_1M	Ant1	High	2480	0.89	-48.74	≤-19.11	PASS

Test Graphs



BLE_1M-Ant1-240-PASS



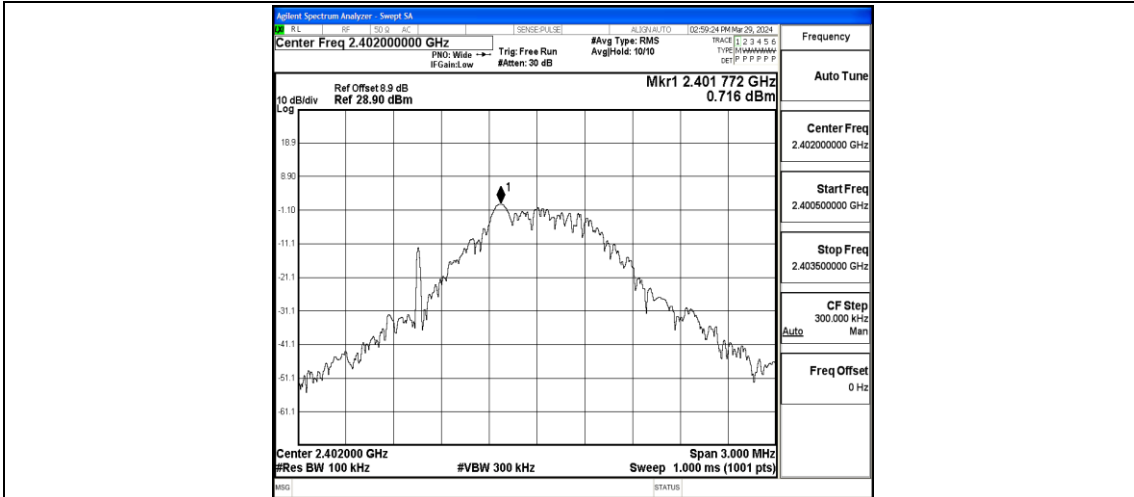
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

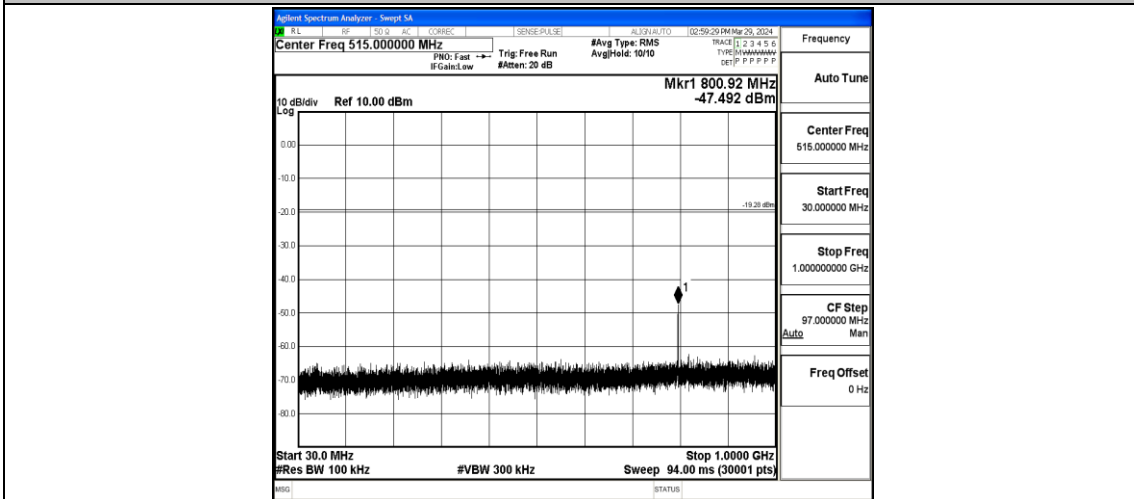
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.72	0.72	---	PASS
BLE_1M	Ant1	2402	30~1000	0.72	-47.49	≤-19.28	PASS
BLE_1M	Ant1	2402	1000~26500	0.72	-38.64	≤-19.28	PASS
BLE_1M	Ant1	2440	0~Reference	1.02	1.02	---	PASS
BLE_1M	Ant1	2440	30~1000	1.02	-47.63	≤-18.98	PASS
BLE_1M	Ant1	2440	1000~26500	1.02	-37.37	≤-18.98	PASS
BLE_1M	Ant1	2480	0~Reference	-0.31	-0.31	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.31	-46.75	≤-20.31	PASS
BLE_1M	Ant1	2480	1000~26500	-0.31	-37.44	≤-20.31	PASS

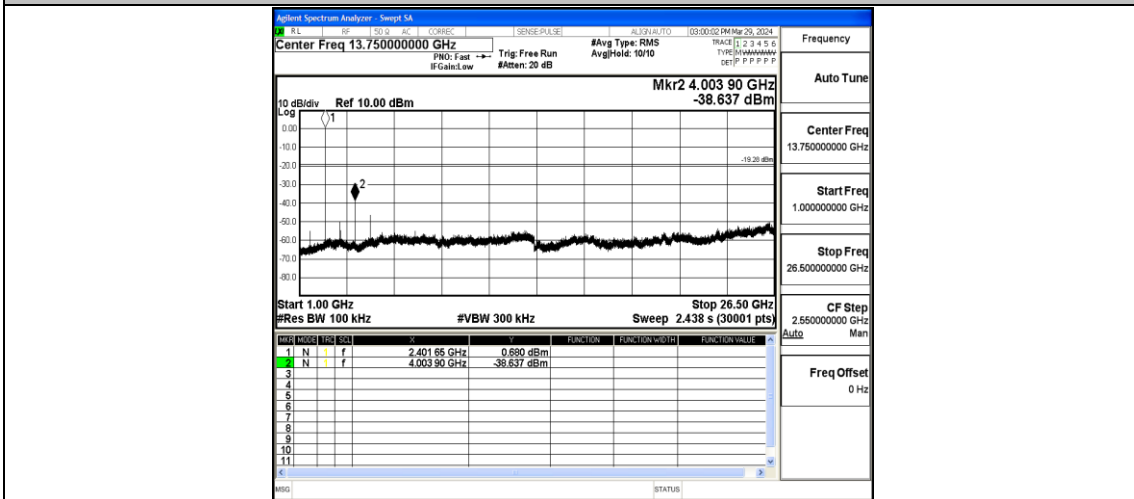
Test Graphs



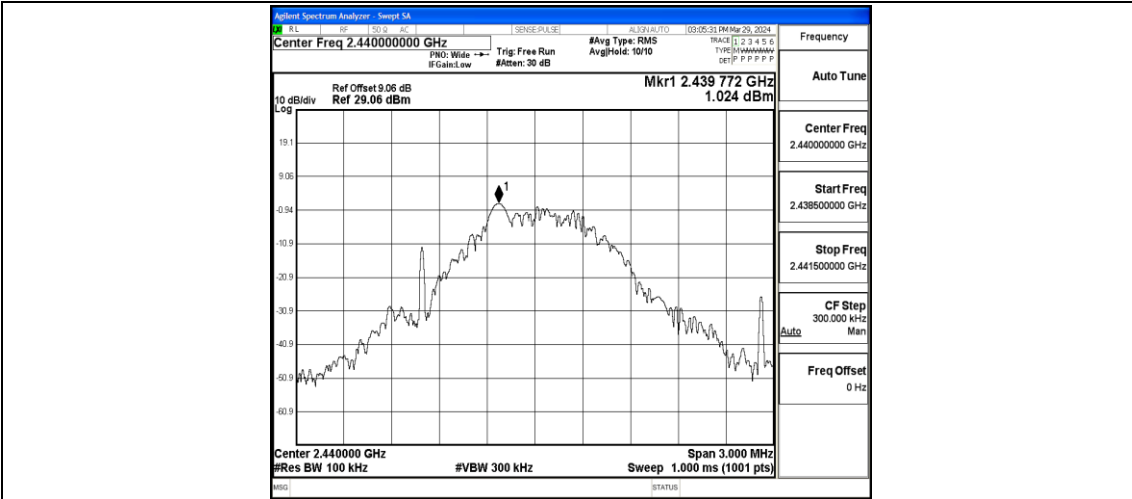
BLE_1M-Ant1-2402-0~Reference-PASS



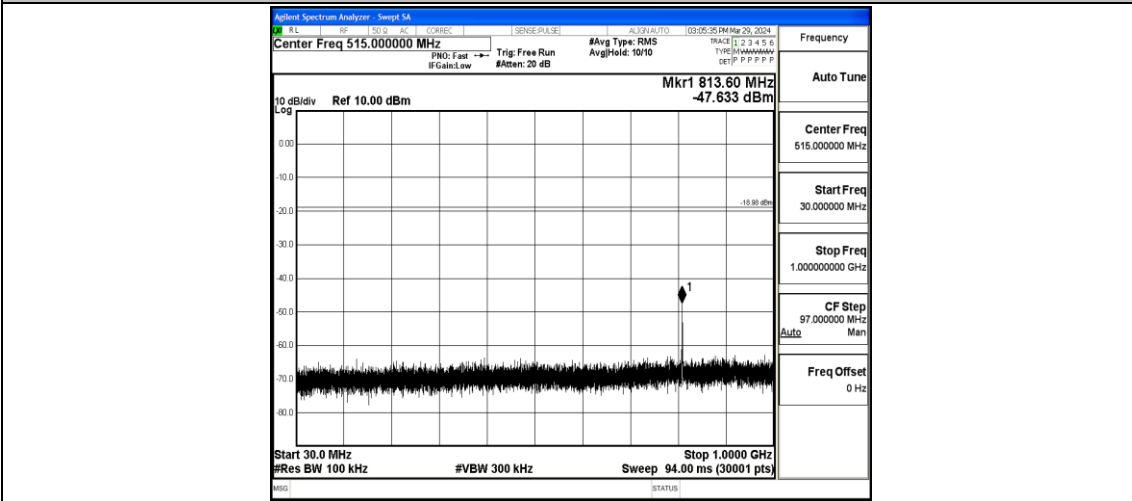
BLE_1M-Ant1-2402-30~1000-PASS



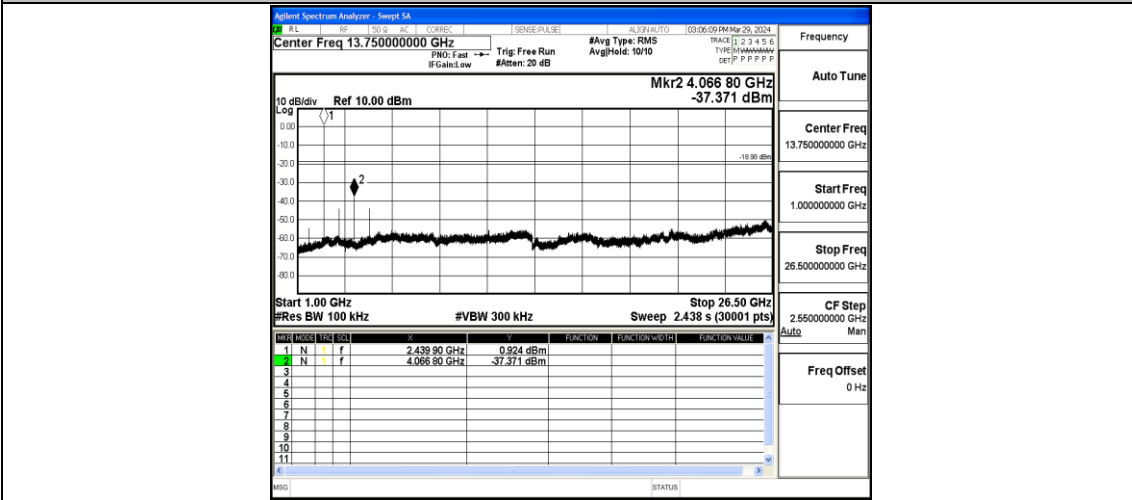
BLE_1M-Ant1-2402-1000~26500-PASS



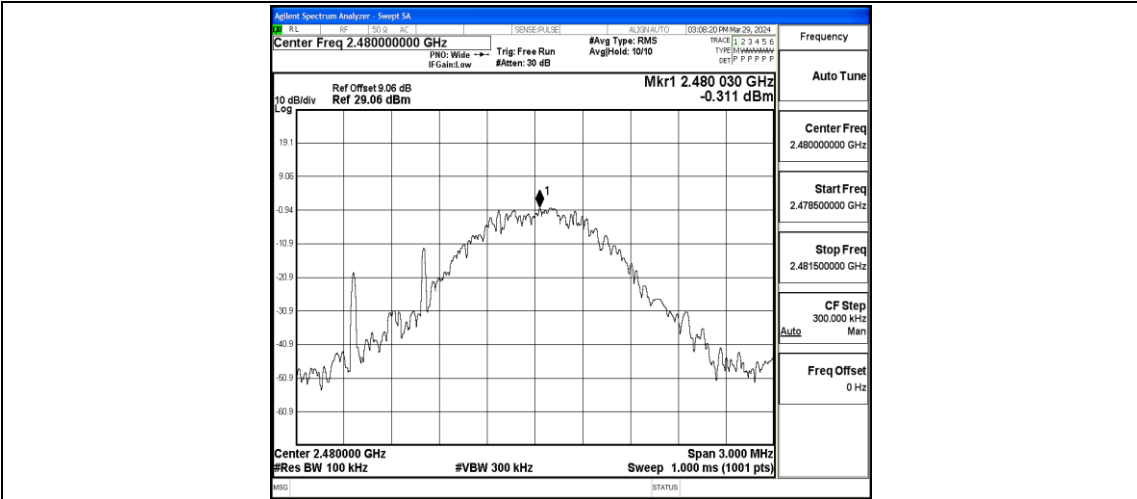
BLE_1M-Ant1-2440-0~Reference-PASS



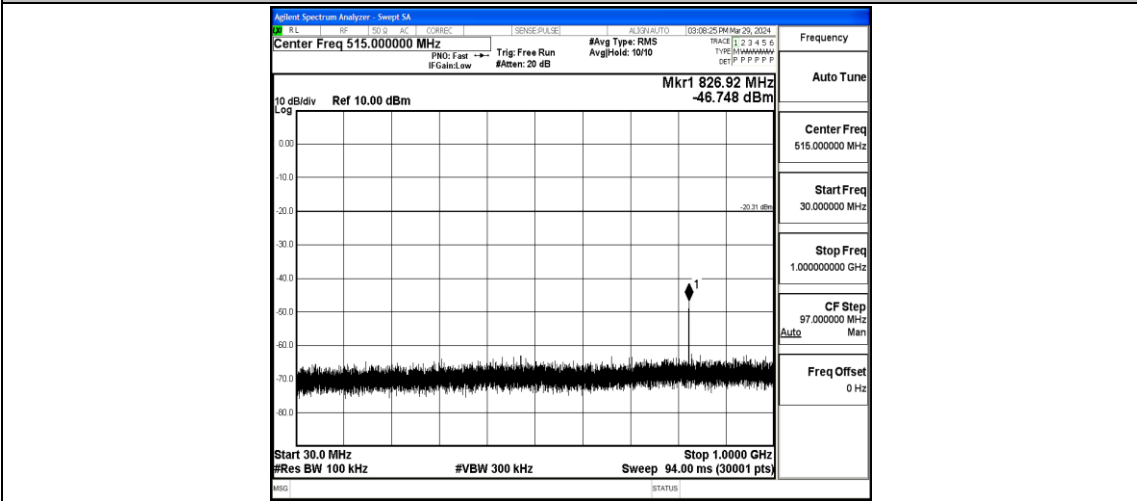
BLE_1M-Ant1-2440-30~1000-PASS



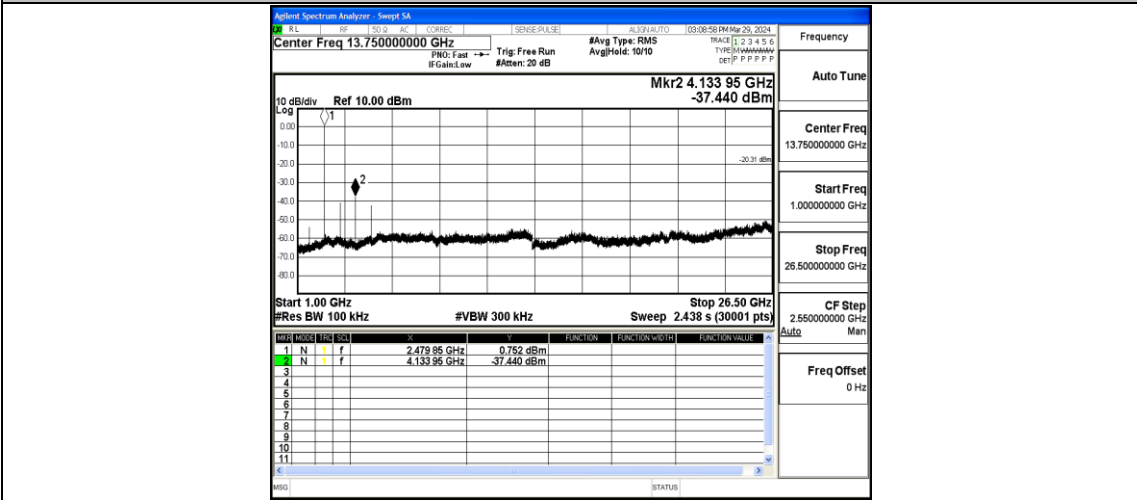
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



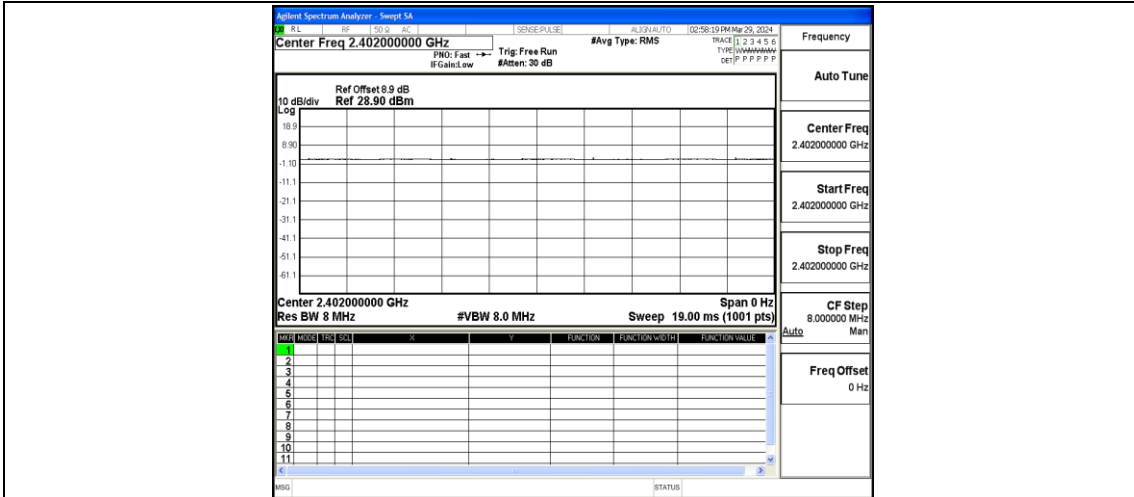
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

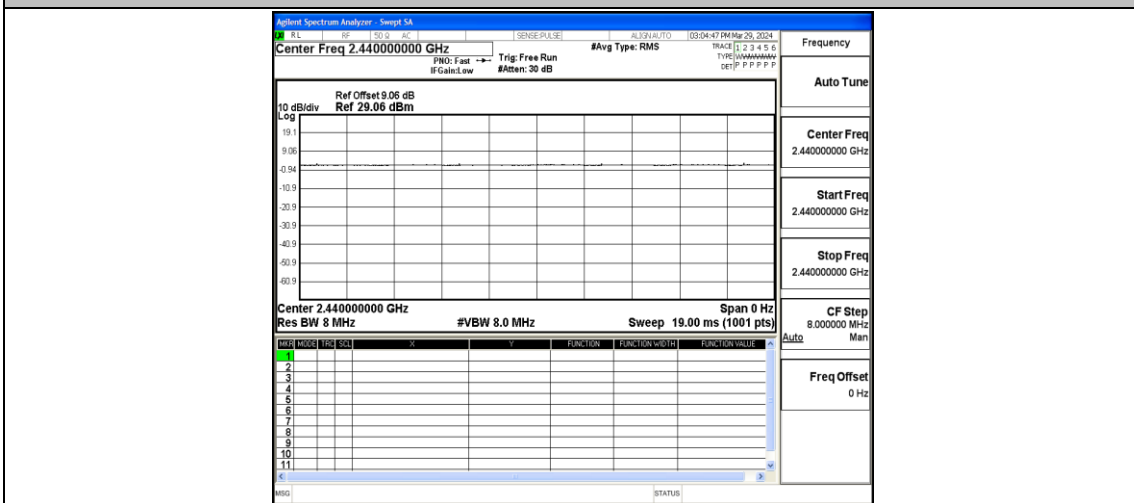
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00

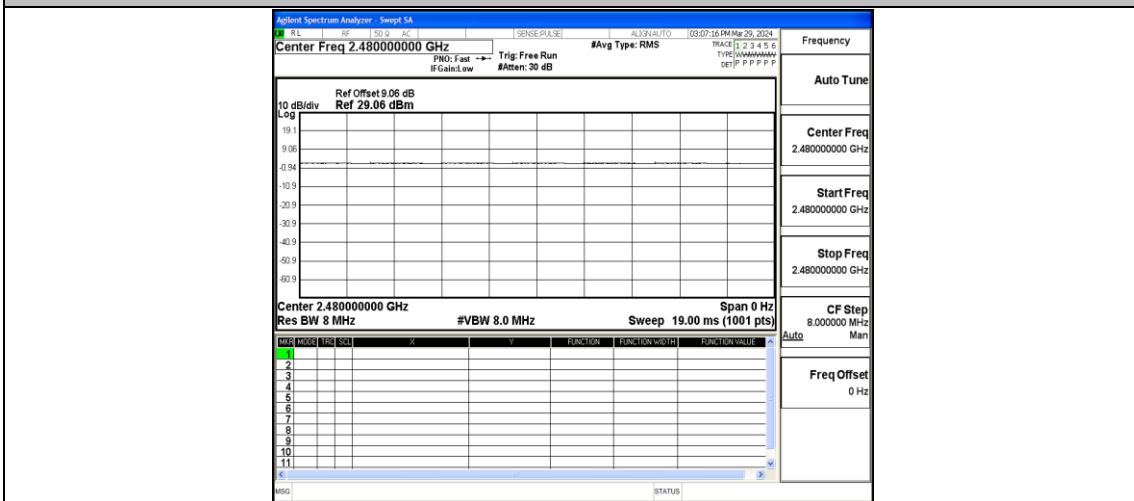
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480