

FCC Appendix RF Test Data

FCC ID : 2BCTS-ES-FM13

Company : Shenzhen Enersmart Technology Development Co., Ltd.

EUT : Find Tag

Model Number : ES-FM13

Report No. : CTA25062400501

Reviewed By : Eric Wang

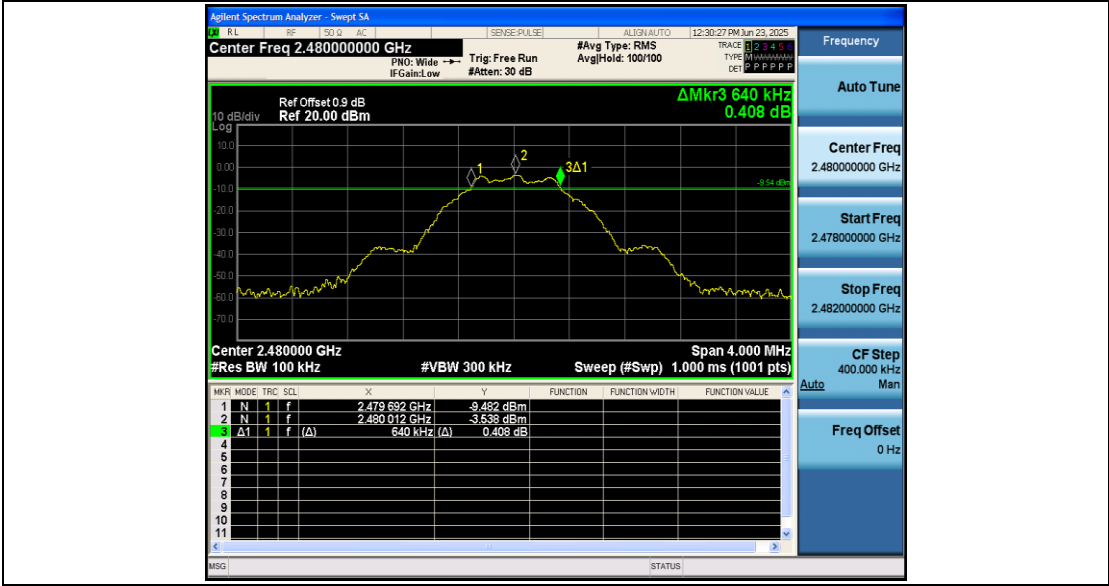
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.700	2402.336	0.5	PASS
		2440	0.652	2439.684	2440.336	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs



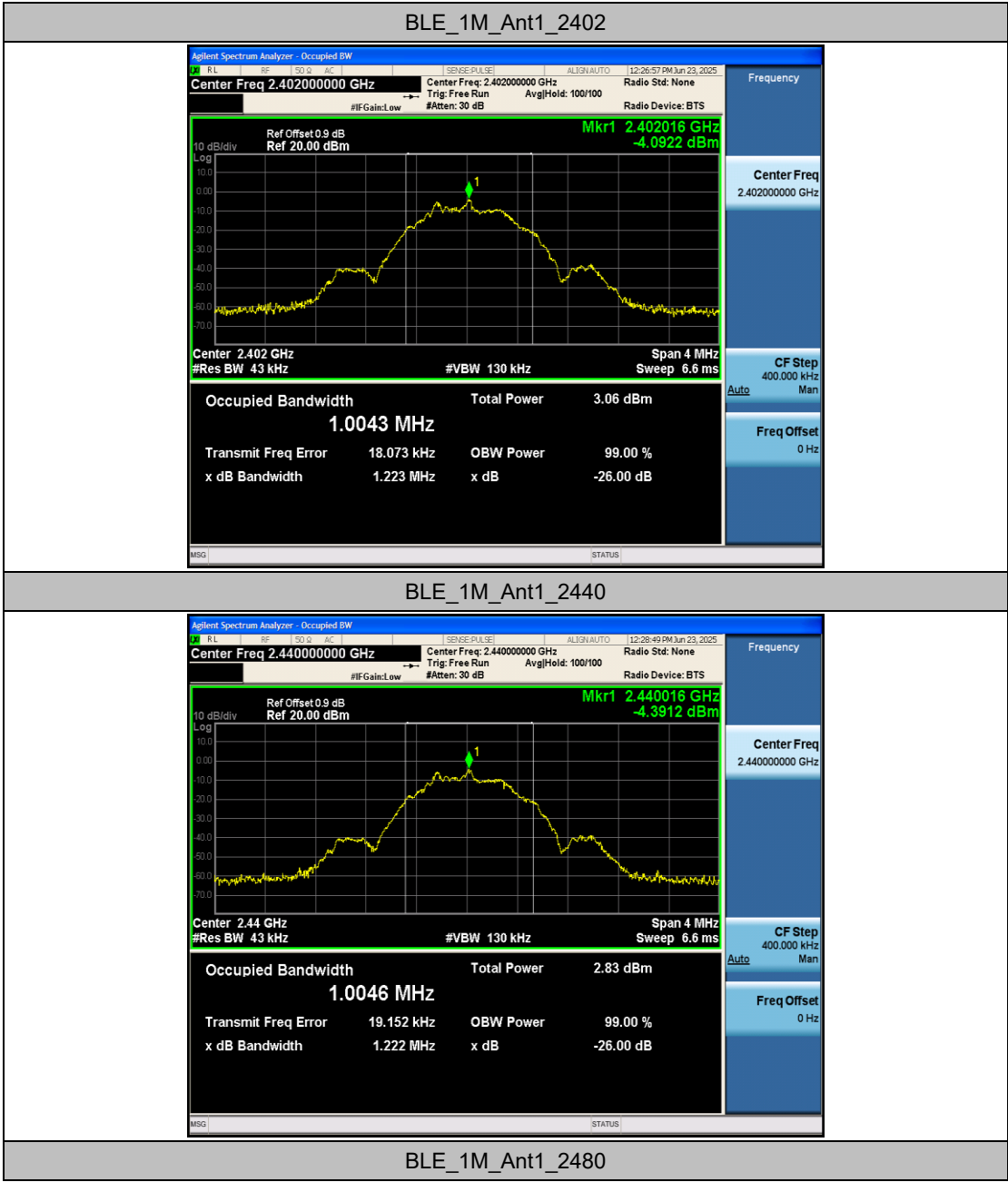


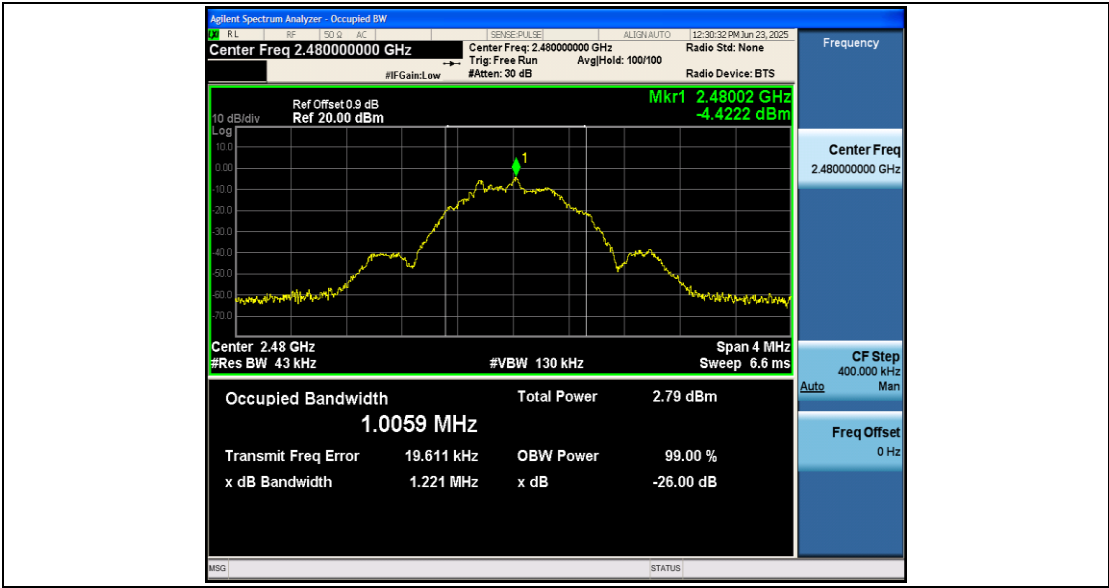
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0043	2401.5159	2402.5202	---	---
		2440	1.0046	2439.5169	2440.5215	---	---
		2480	1.0059	2479.5167	2480.5226	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

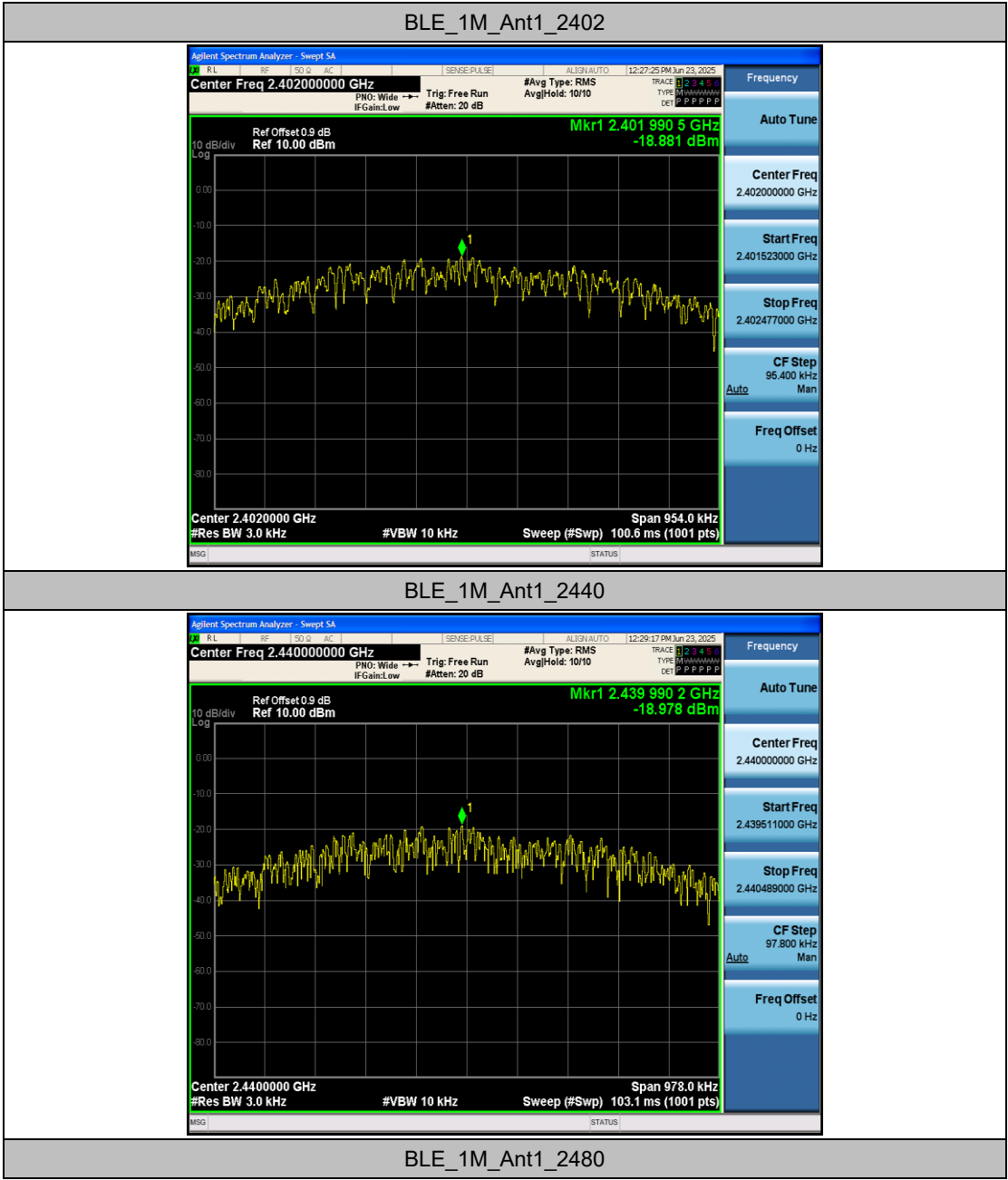
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.04	≤30	PASS
		2440	-3.30	≤30	PASS
		2480	-3.30	≤30	PASS

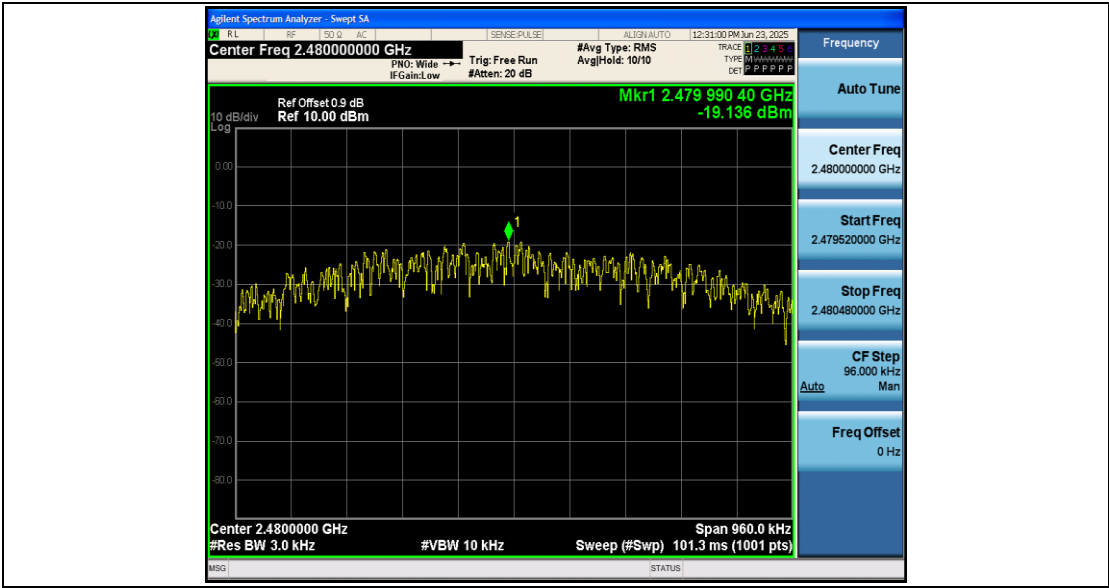
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.88	≤8.00	PASS
		2440	-18.98	≤8.00	PASS
		2480	-19.14	≤8.00	PASS

Test Graphs



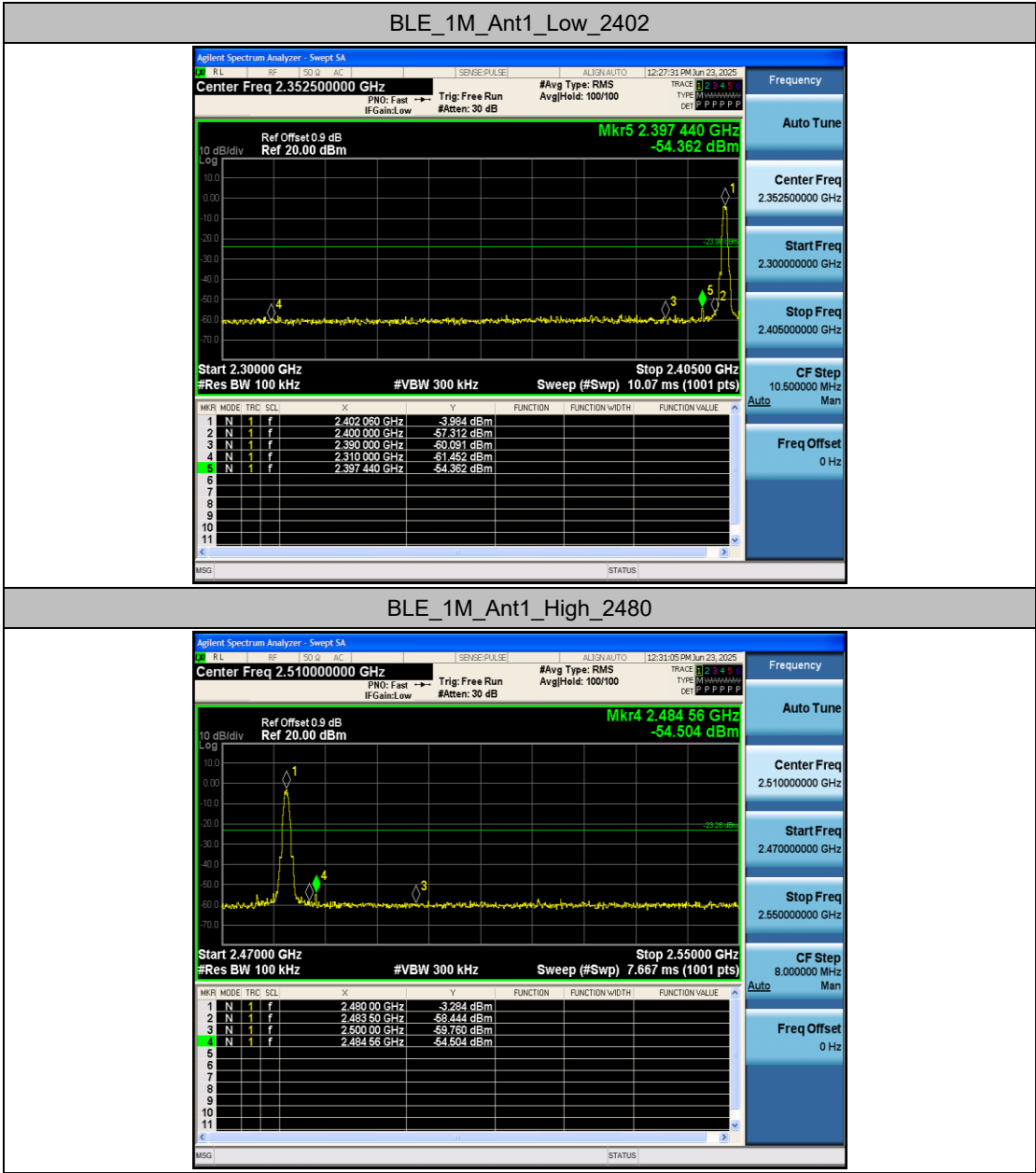


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.98	-54.36	≤-23.98	PASS
		High	2480	-3.28	-54.5	≤-23.28	PASS

Test Graphs

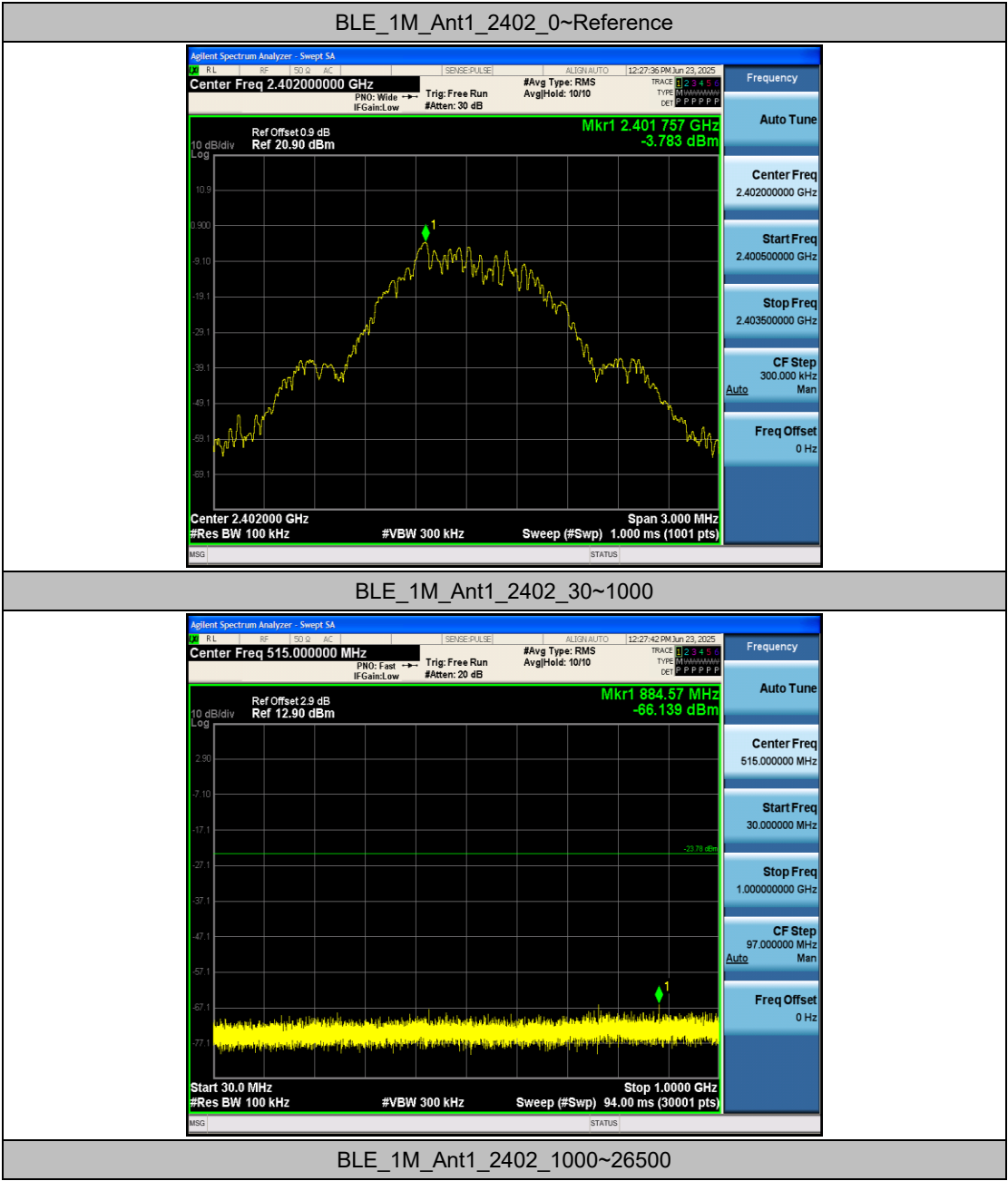


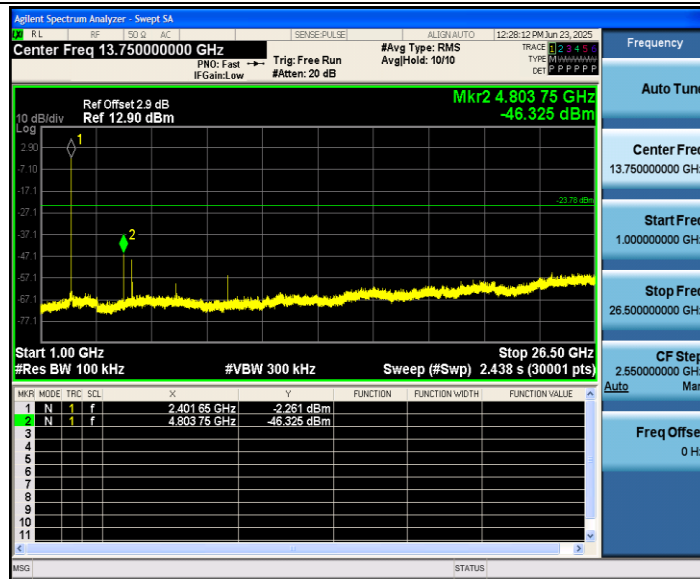
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.78	-3.78	---	PASS
			30~1000	-3.78	-66.14	≤-23.78	PASS
			1000~26500	-3.78	-46.33	≤-23.78	PASS
		2440	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-68.05	≤-24.77	PASS
			1000~26500	-4.77	-48.74	≤-24.77	PASS
		2480	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-67.17	≤-25.12	PASS
			1000~26500	-5.12	-46.82	≤-25.12	PASS

Test Graphs

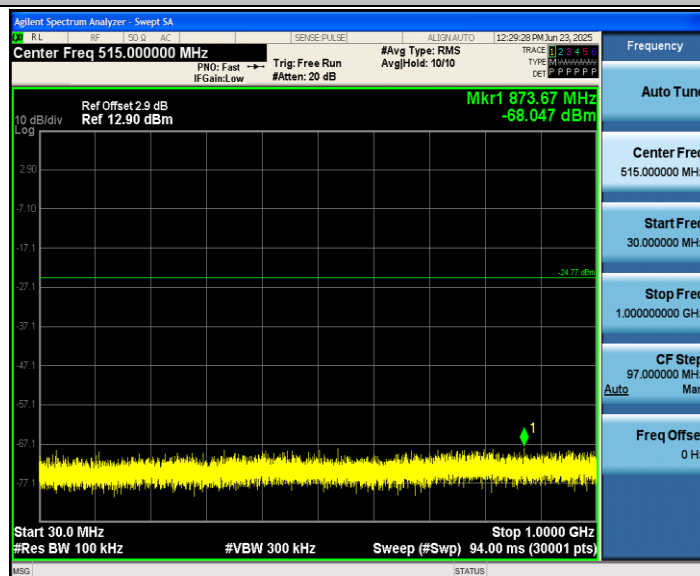




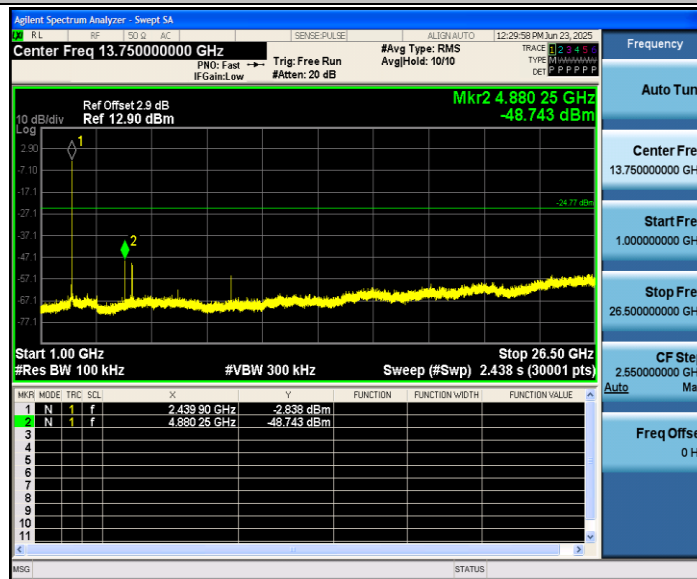
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



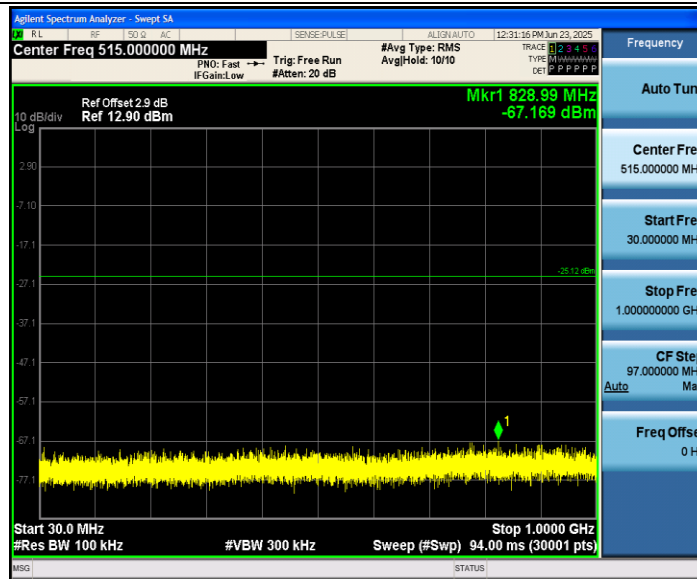
BLE_1M_Ant1_2440_1000~26500



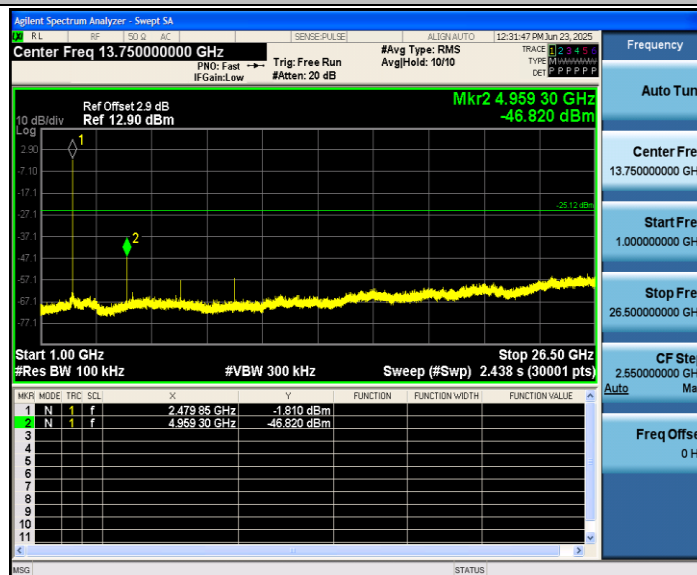
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

