

FCC Appendix RF Test Data

FCC ID : 2BFN9-1314-01

Company : Ganzhou Yuan jia Technology Development Co.,Ltd

EUT : Bluetooth Wi-Fi dual-mode point-controlled light string

Model Number : 1314-01

Report No. : CTA25062001101

Reviewed By : Eric Wang

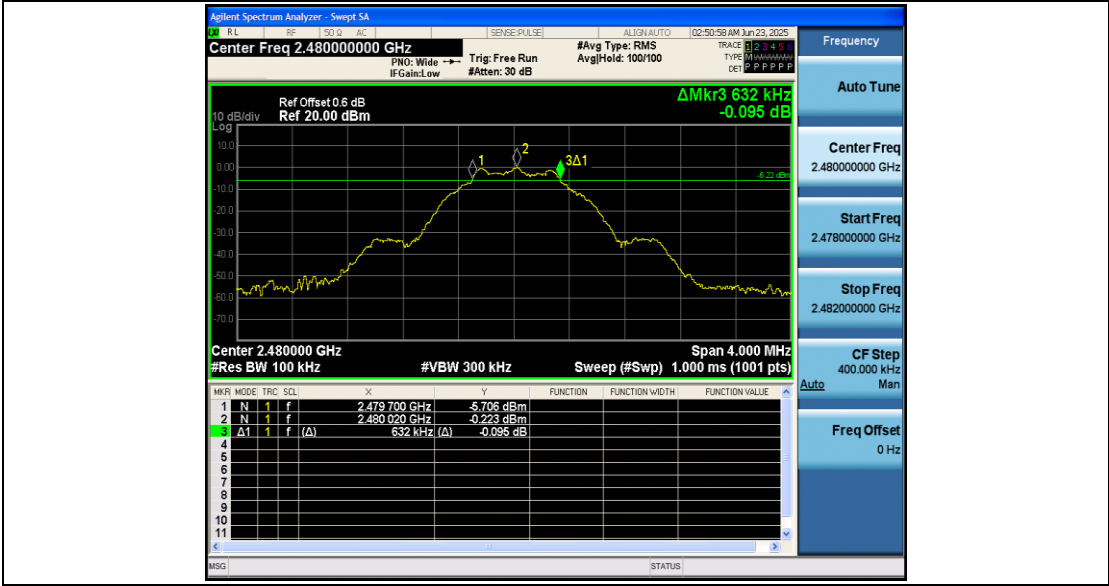
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.676	2402.340	0.5	PASS
		2440	0.636	2439.696	2440.332	0.5	PASS
		2480	0.632	2479.700	2480.332	0.5	PASS

Test Graphs



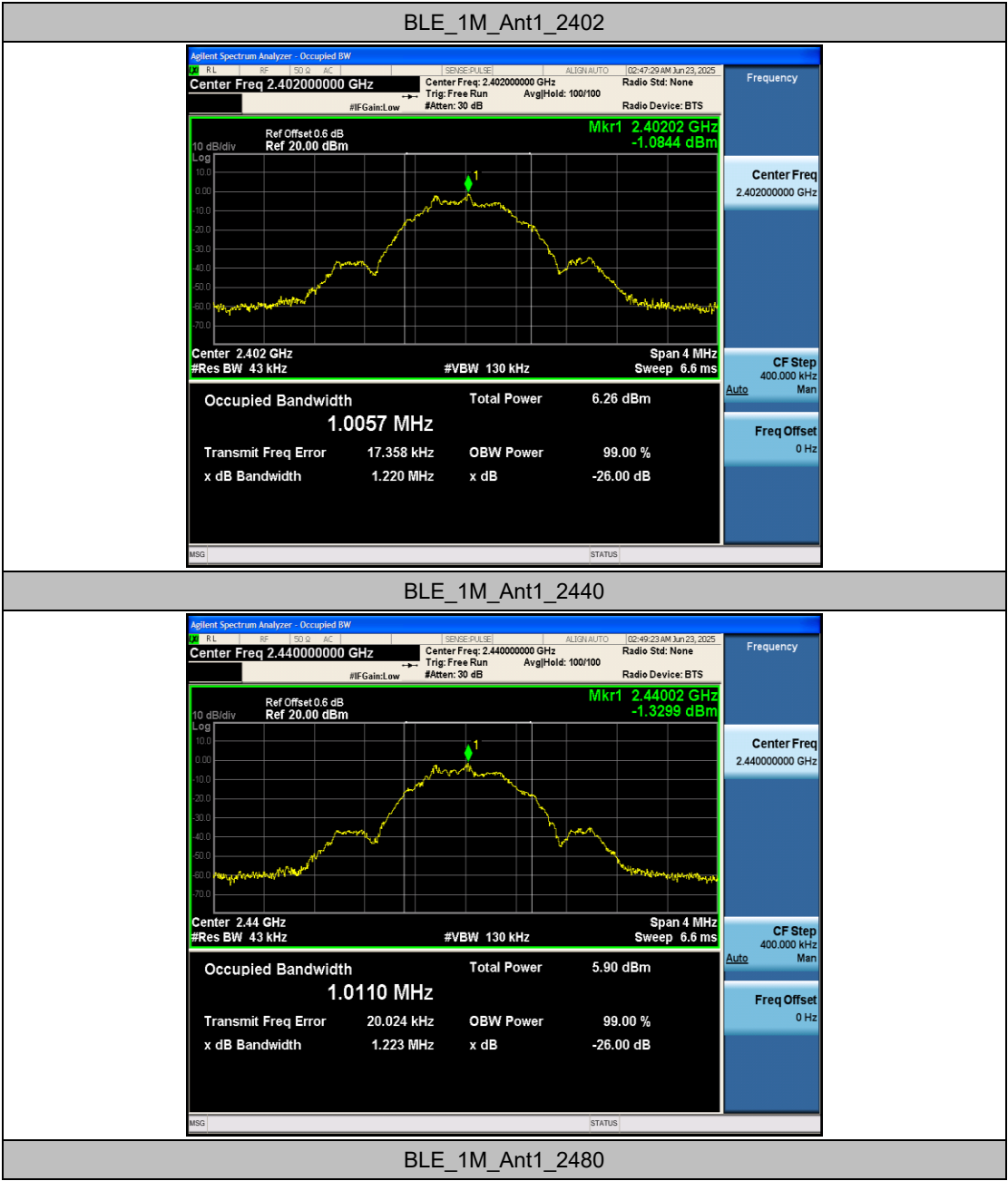


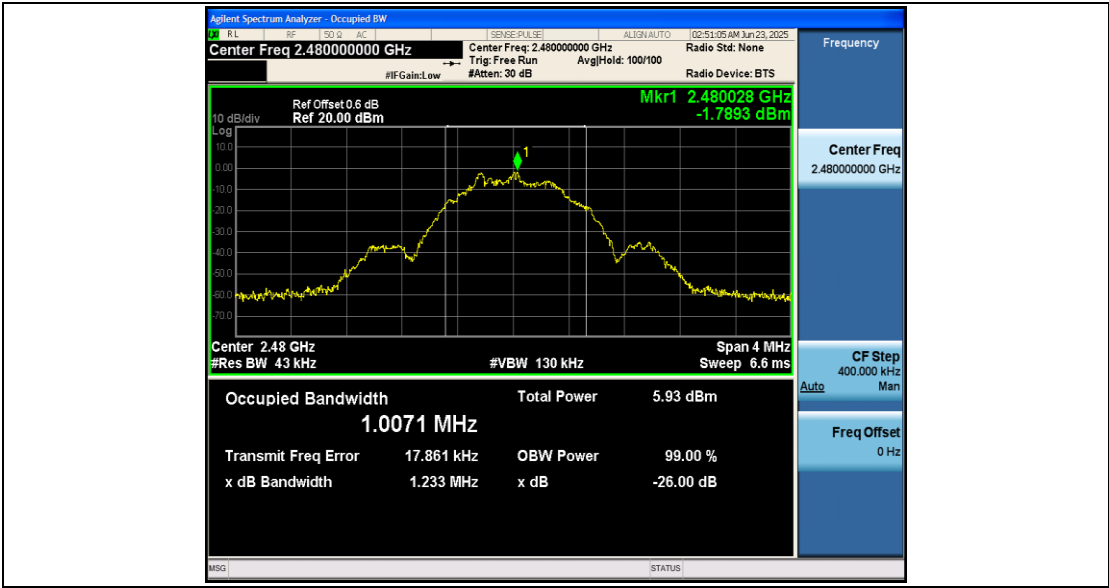
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0057	2401.5145	2402.5202	---	---
		2440	1.0110	2439.5145	2440.5255	---	---
		2480	1.0071	2479.5143	2480.5214	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

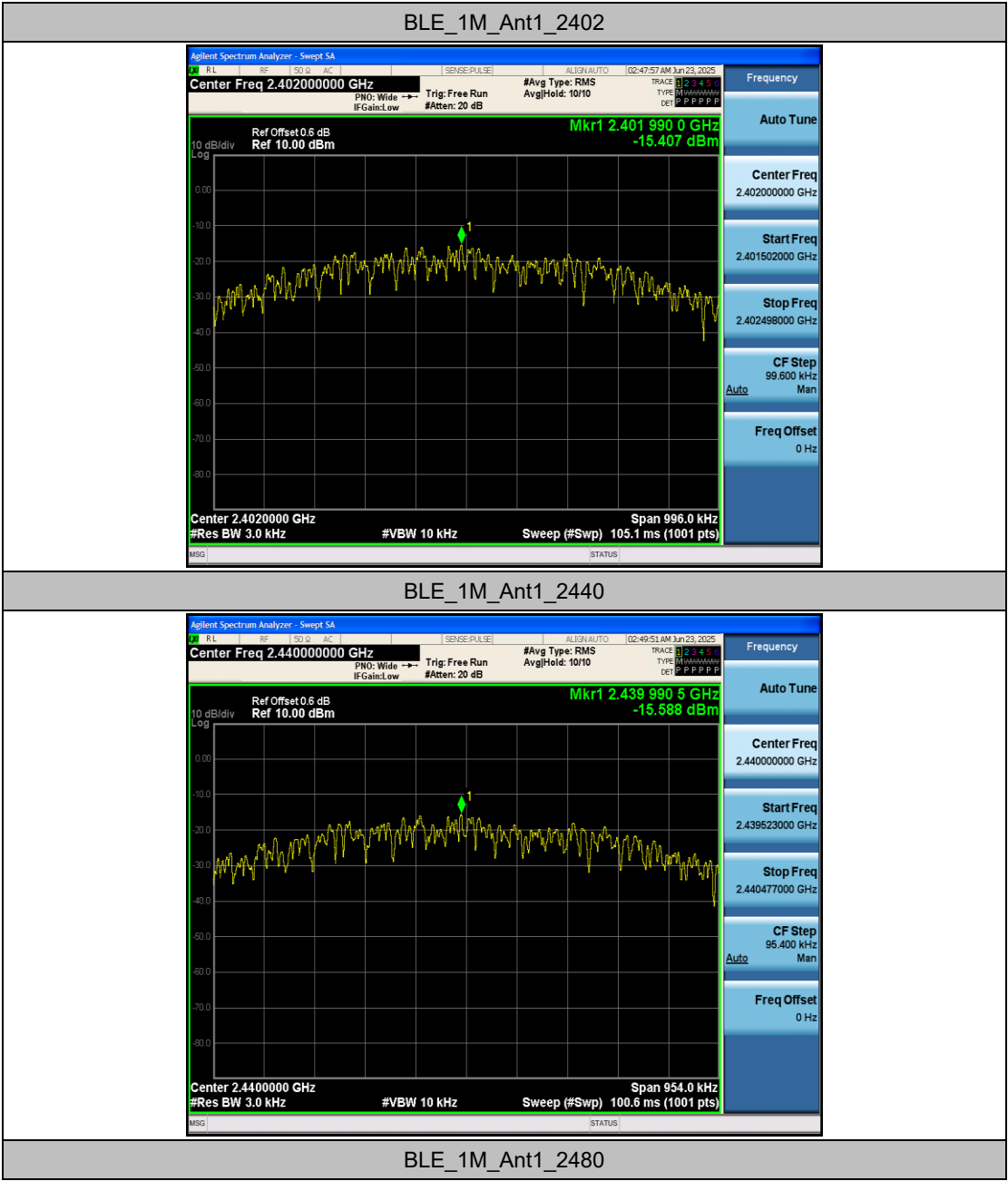
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.20	≤30	PASS
		2440	0.01	≤30	PASS
		2480	-0.12	≤30	PASS

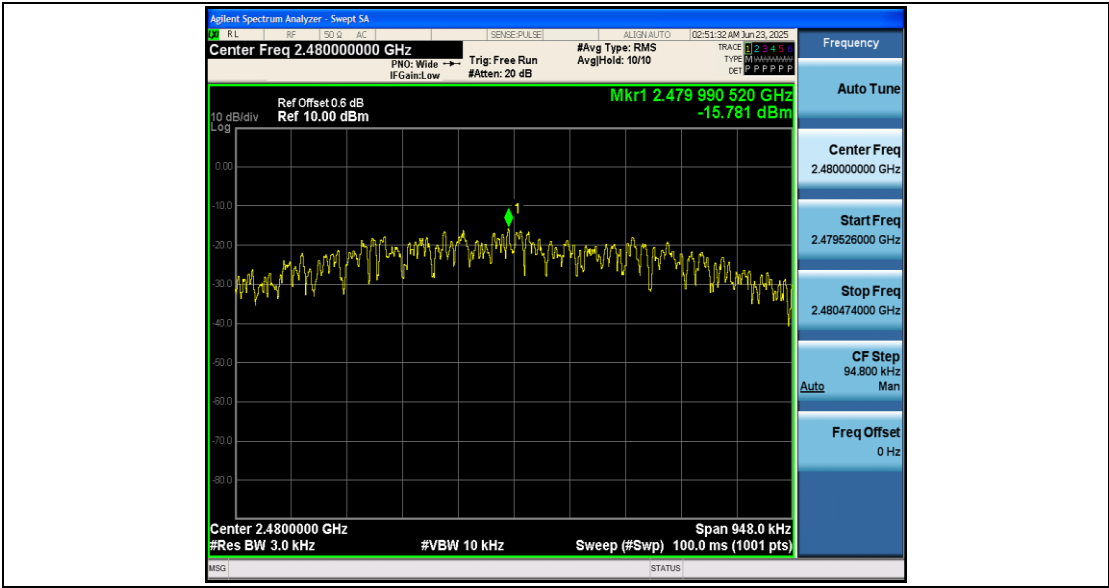
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.41	≤8.00	PASS
		2440	-15.59	≤8.00	PASS
		2480	-15.78	≤8.00	PASS

Test Graphs



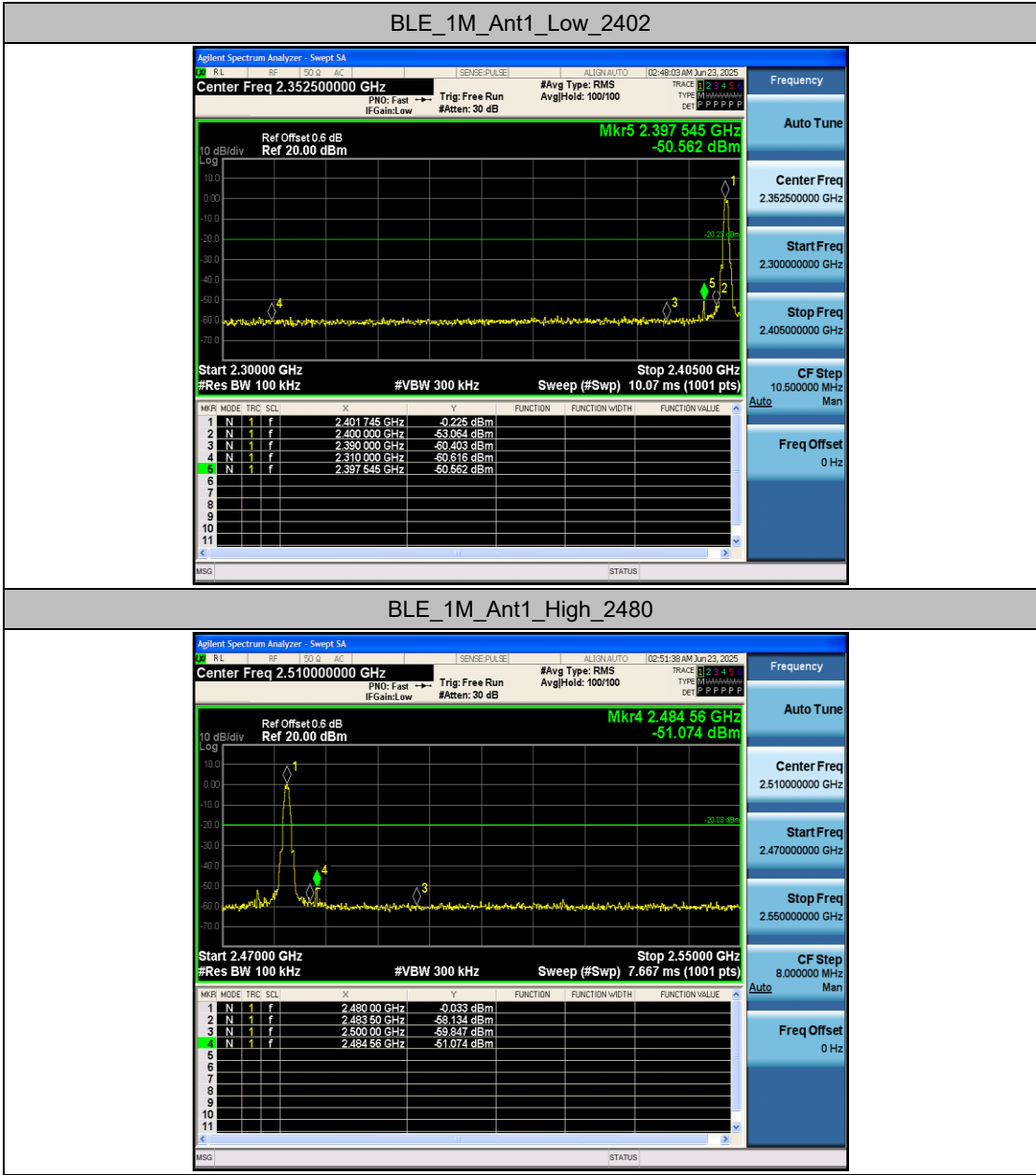


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.23	-50.56	≤-20.23	PASS
		High	2480	-0.03	-51.07	≤-20.03	PASS

Test Graphs

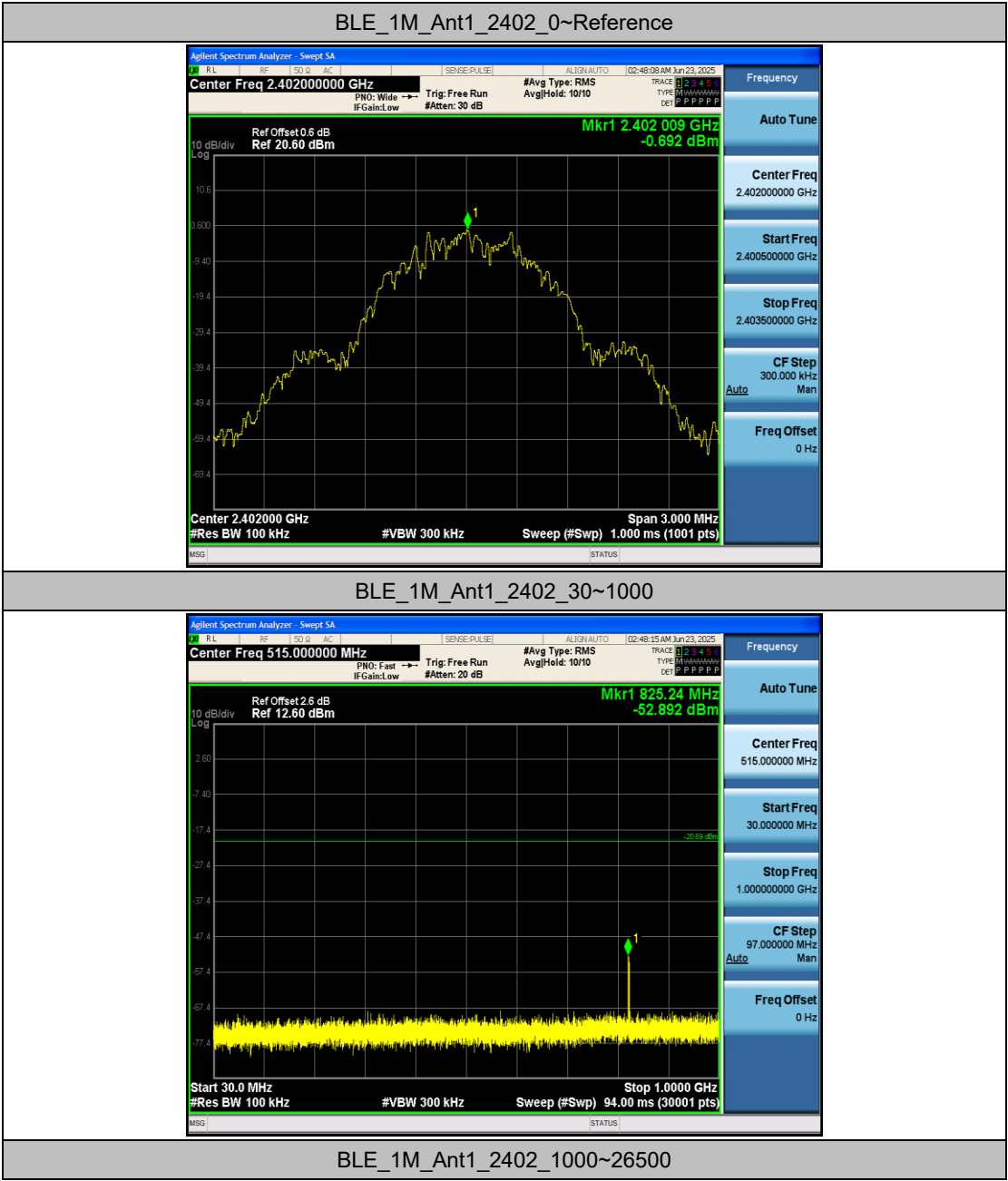


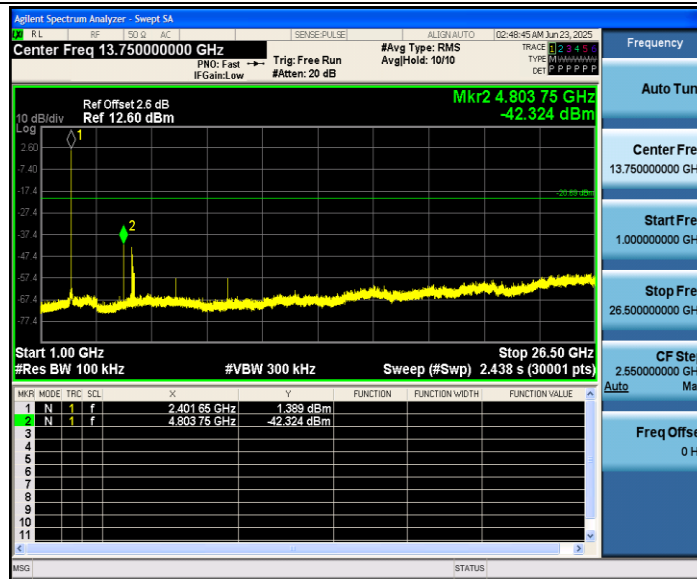
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-52.89	≤-20.69	PASS
			1000~26500	-0.69	-42.32	≤-20.69	PASS
		2440	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-67.46	≤-21.52	PASS
			1000~26500	-1.52	-44.57	≤-21.52	PASS
		2480	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-50.93	≤-21.87	PASS
			1000~26500	-1.87	-46.04	≤-21.87	PASS

Test Graphs

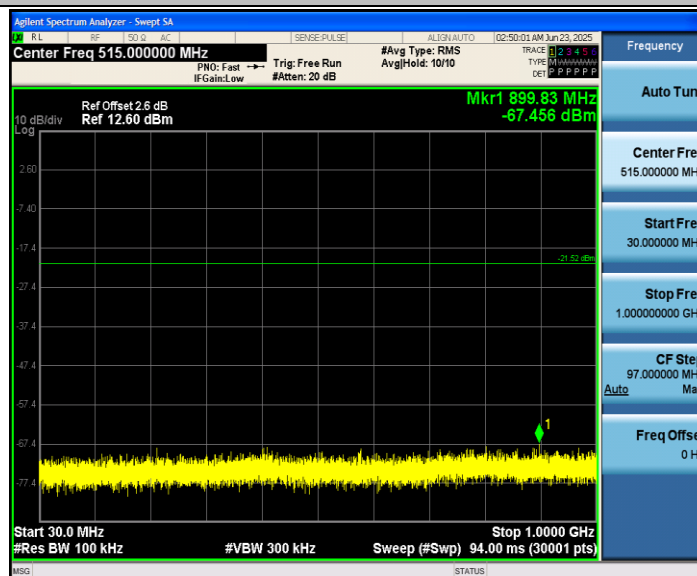




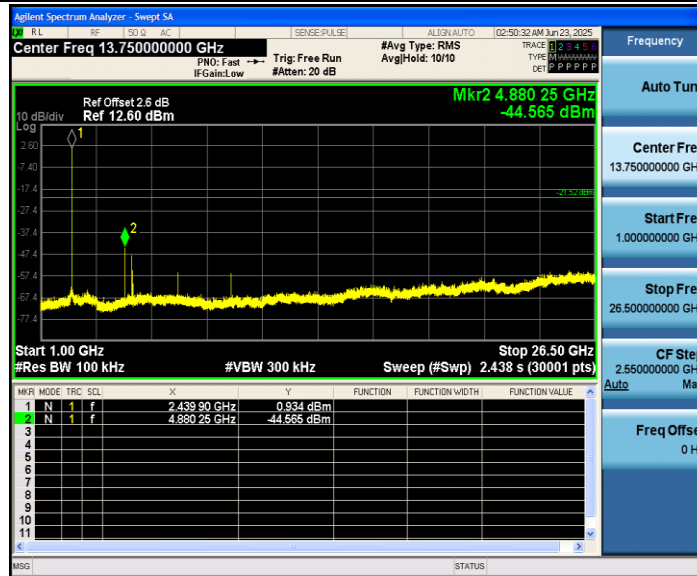
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



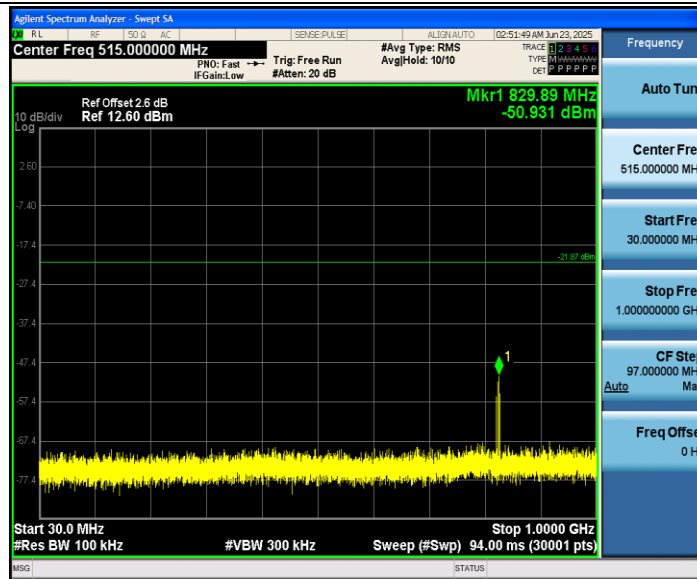
BLE_1M_Ant1_2440_1000~26500



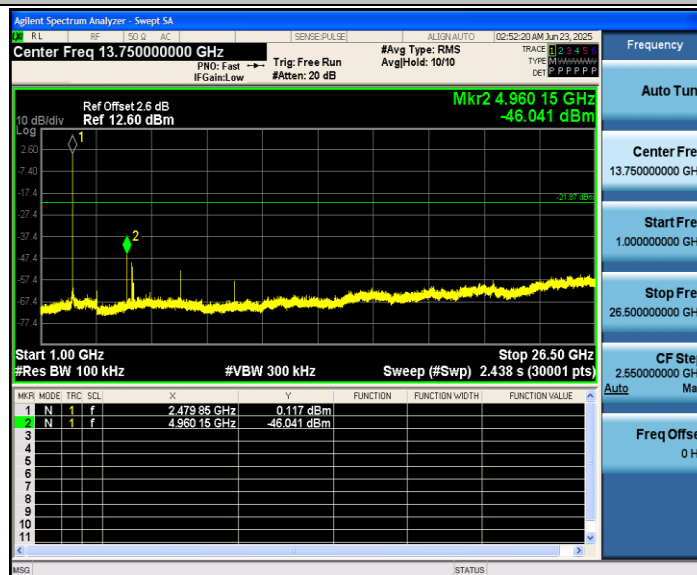
BLE_1M_Ant1_2480_0~Reference



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	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

