

FCC Appendix RF Test Data for BLE

FCC ID : 2BHLN-SC-ULTRA

Company : BOOKOO TECH LIMITED

EUT : BOOKOO Themis Ultra Coffee Scale

Model Number : SC-ultra

Report No. : CTA25101500401

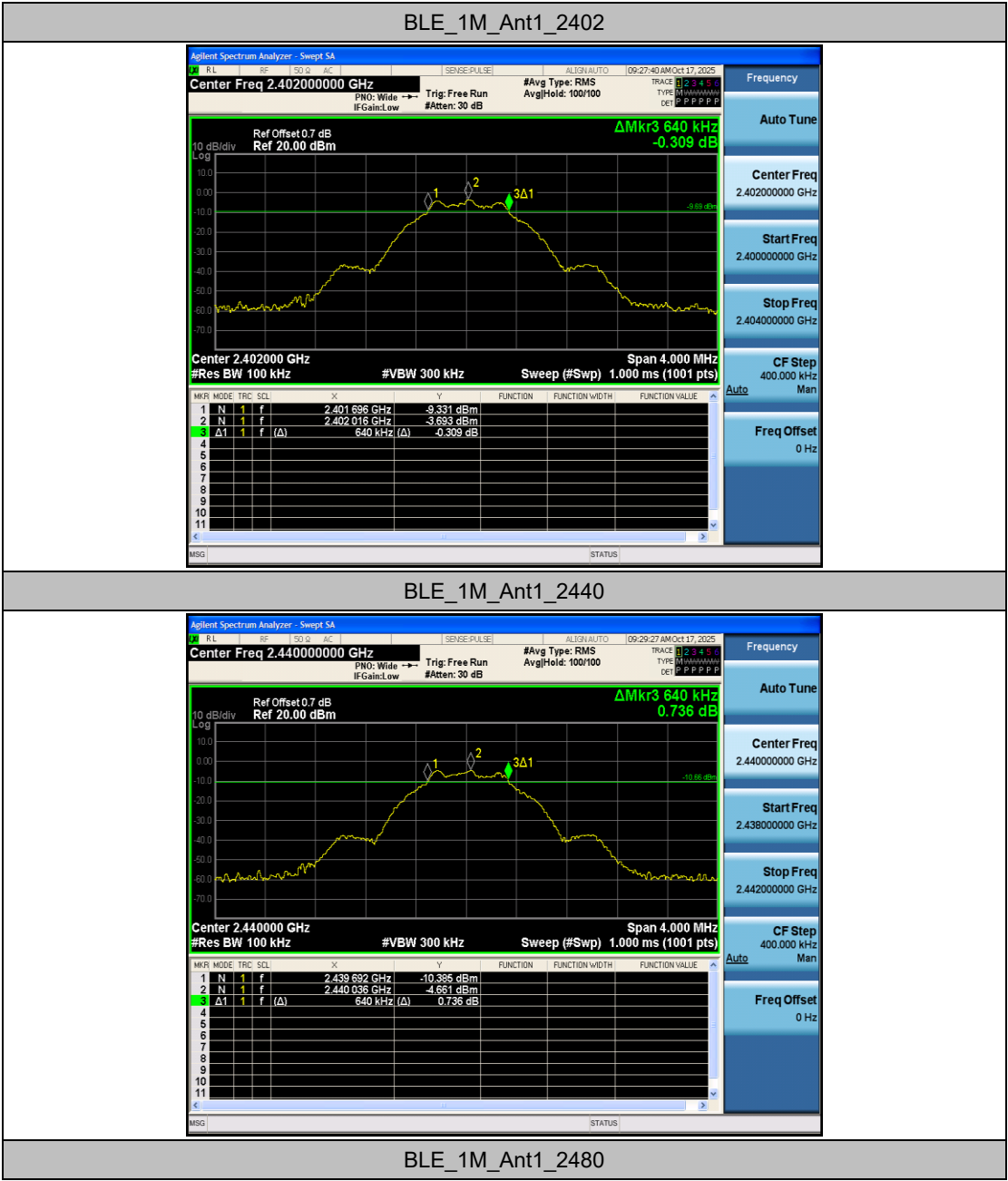
Reviewed By : Eric Wang

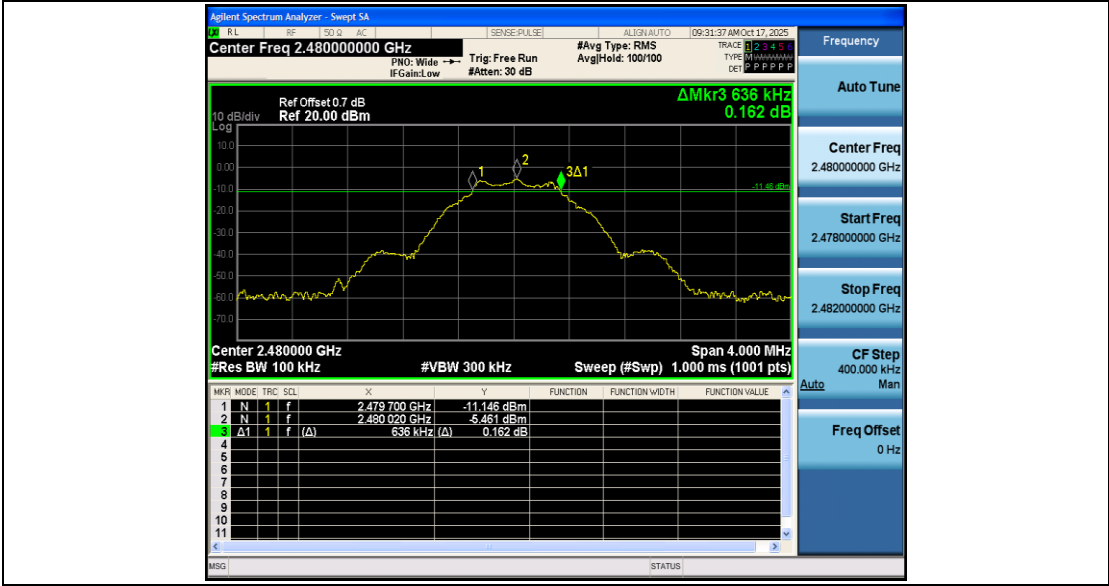
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.696	2402.336	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.636	2479.700	2480.336	0.5	PASS

Test Graphs



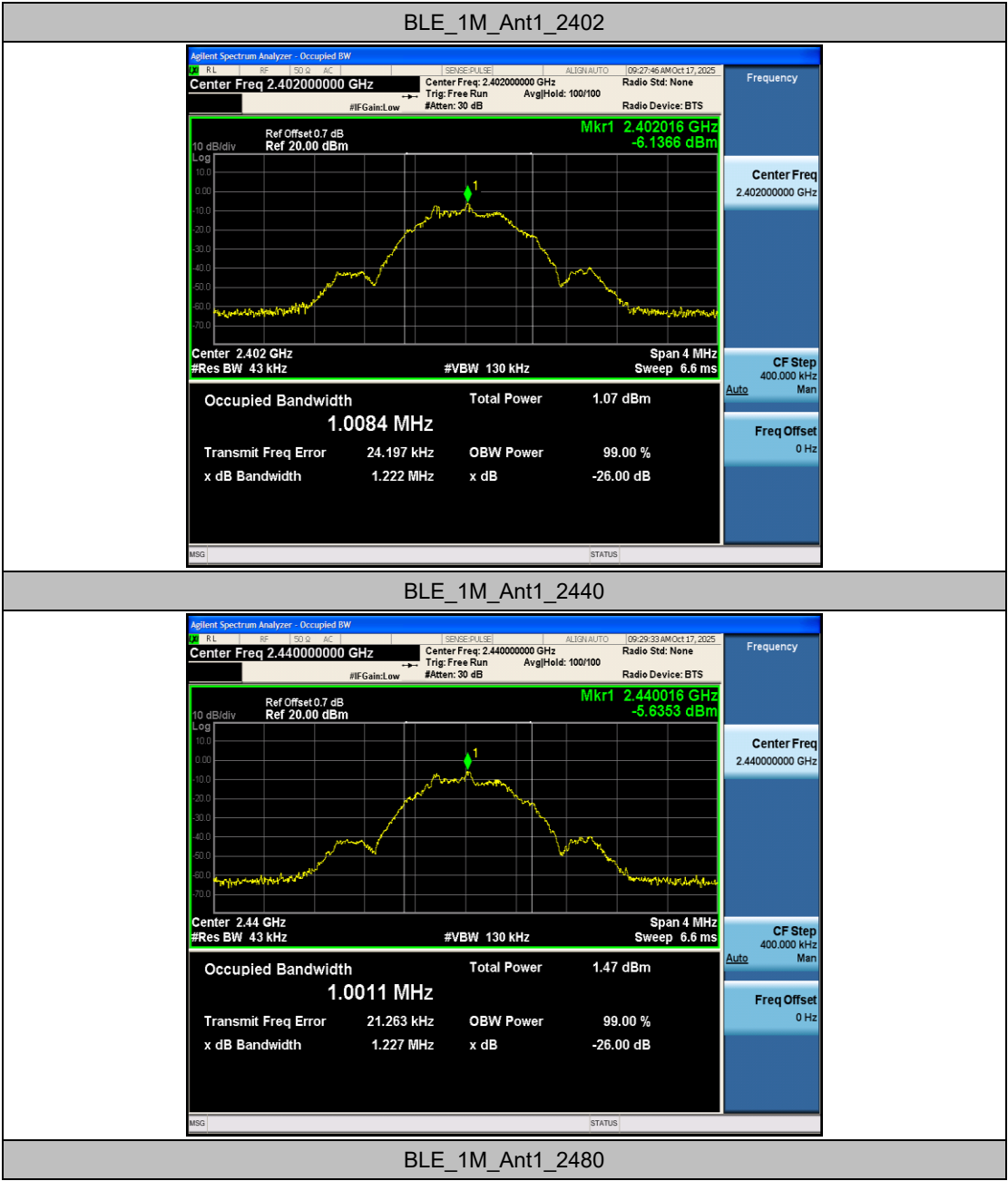


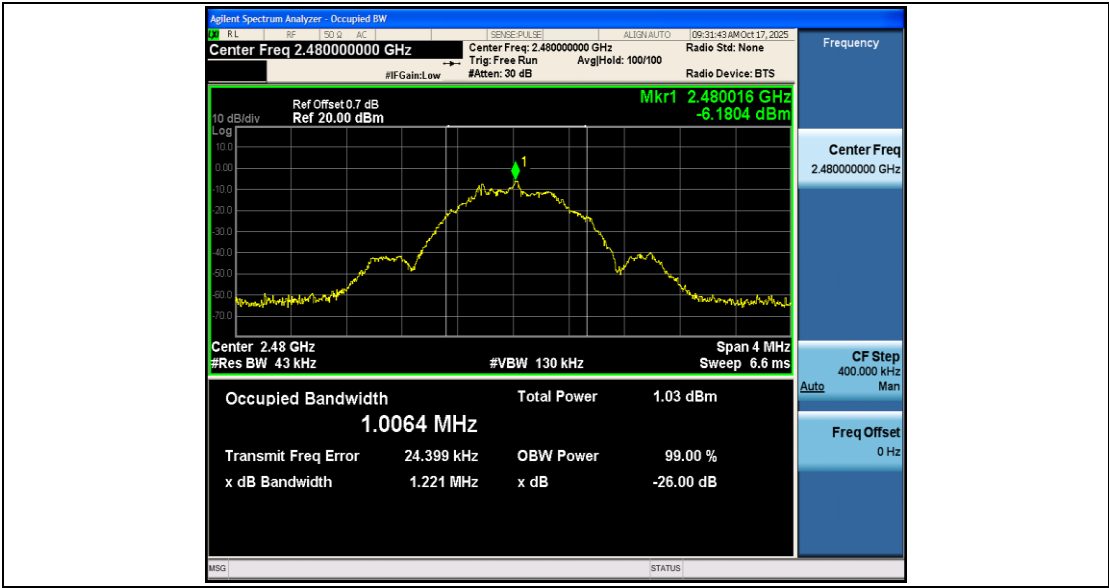
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0084	2401.5200	2402.5284	---	---
		2440	1.0011	2439.5207	2440.5218	---	---
		2480	1.0064	2479.5212	2480.5276	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

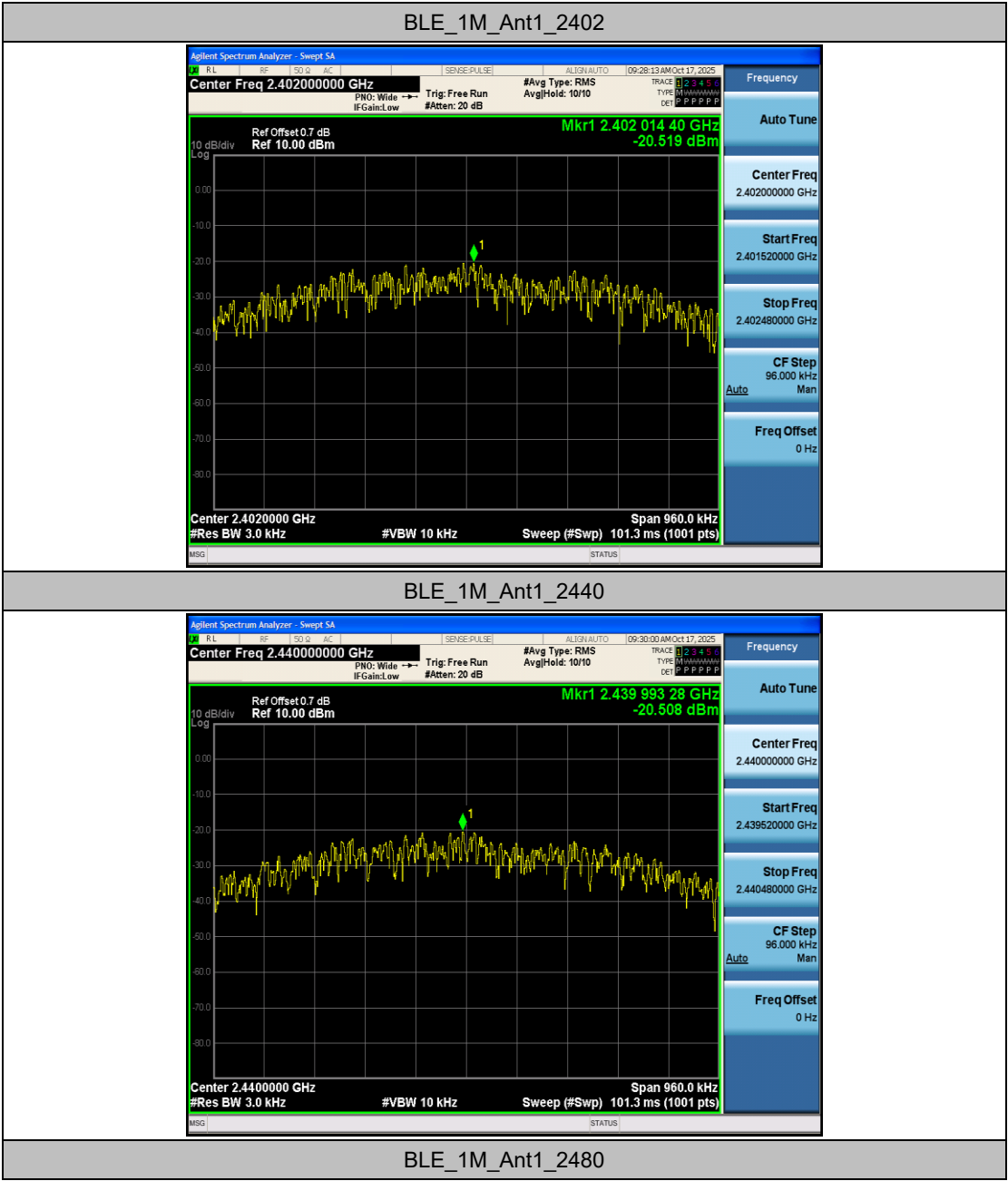
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.90	≤30	PASS
		2440	-3.94	≤30	PASS
		2480	-5.34	≤30	PASS

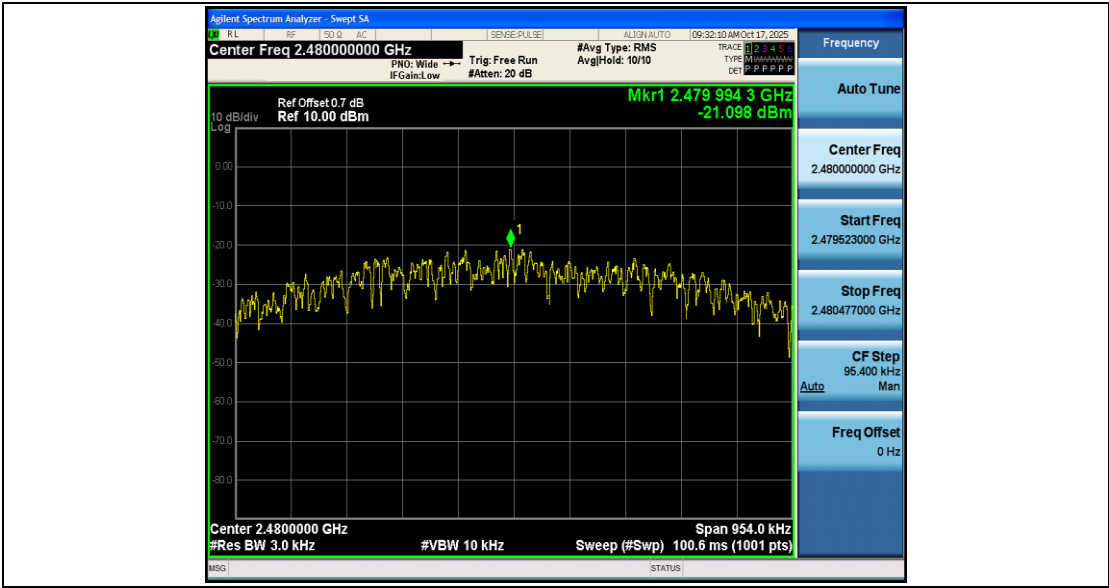
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.52	≤8.00	PASS
		2440	-20.51	≤8.00	PASS
		2480	-21.10	≤8.00	PASS

Test Graphs



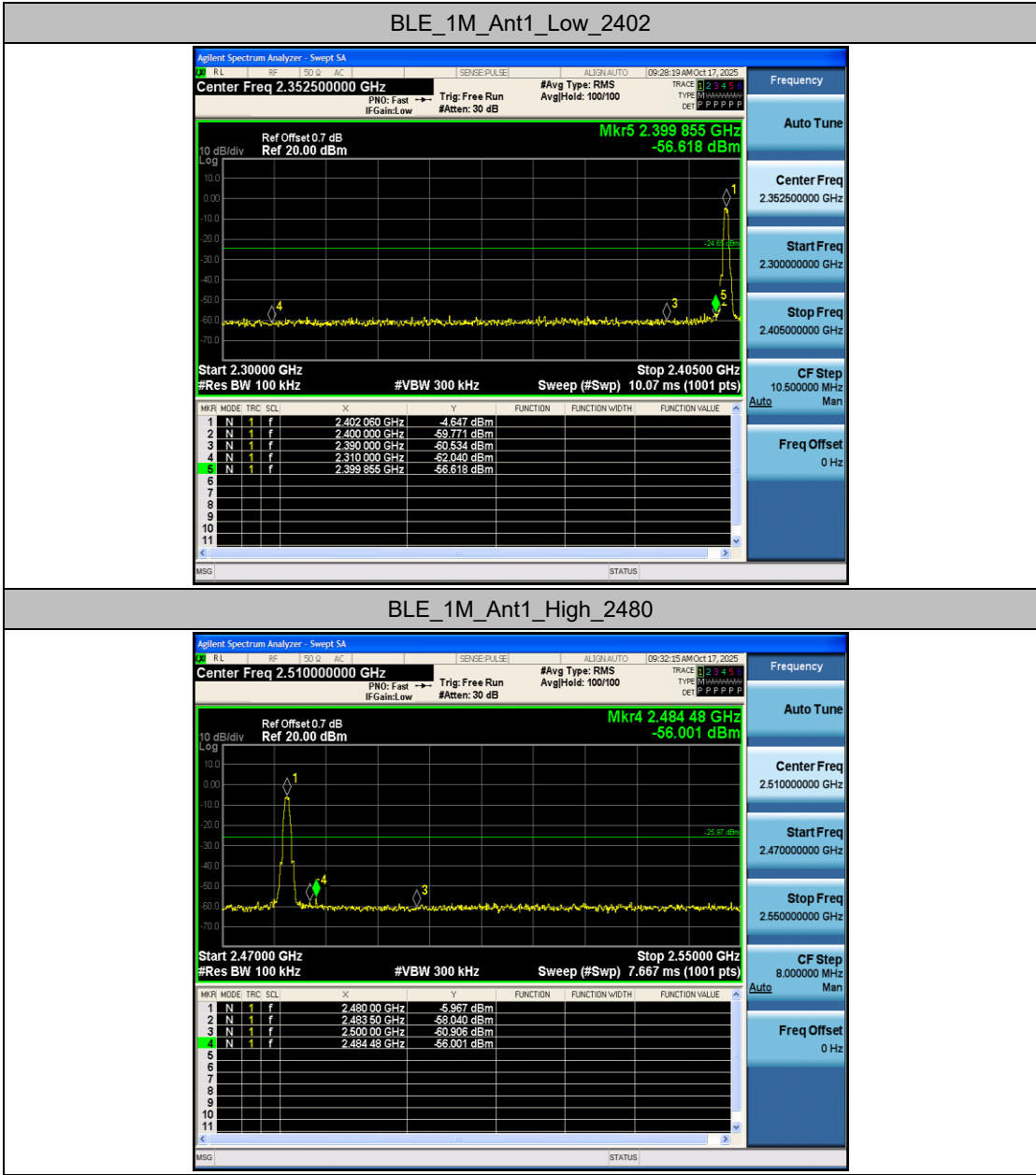


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.65	-56.62	≤-24.65	PASS
		High	2480	-5.97	-56	≤-25.97	PASS

Test Graphs

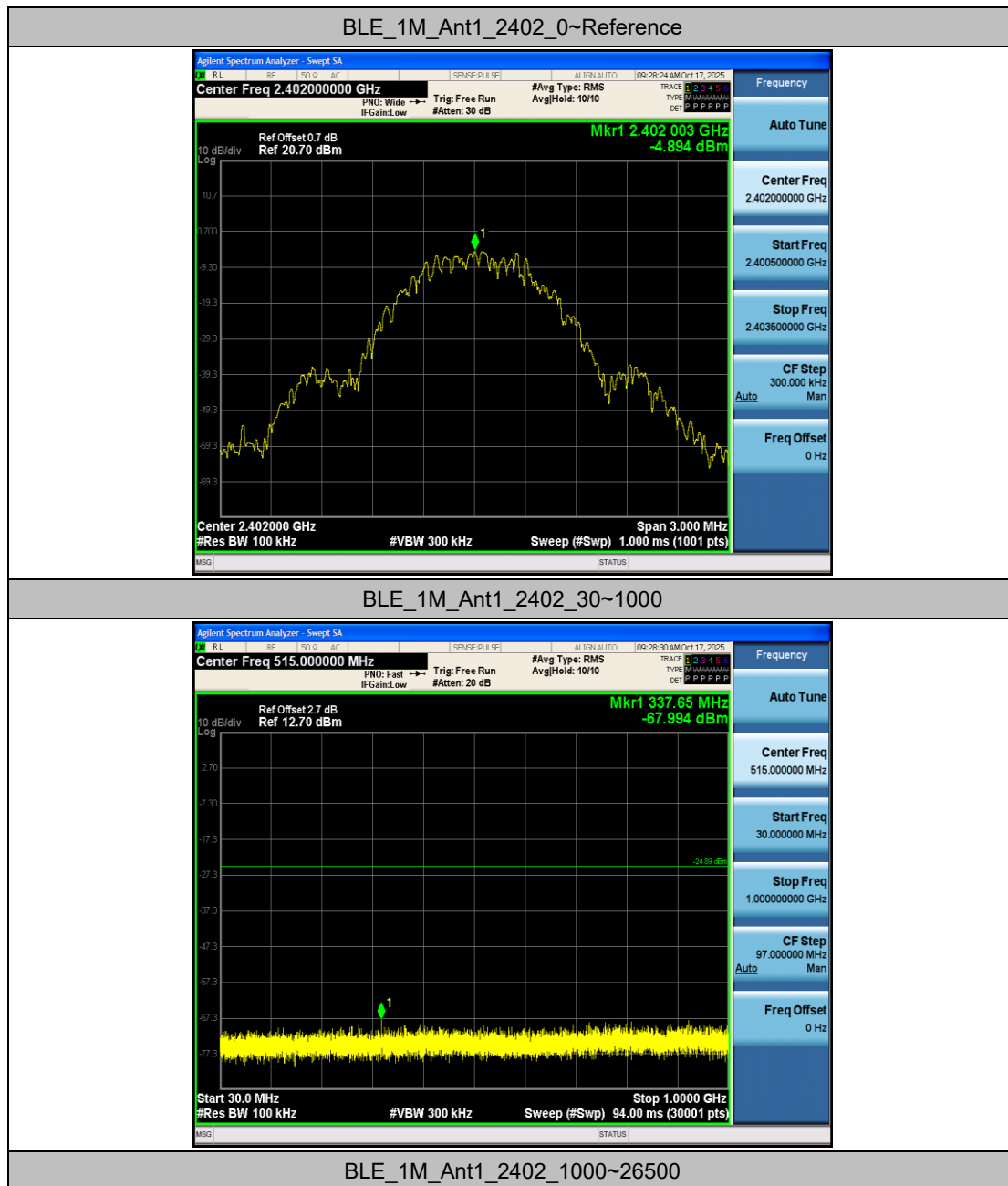


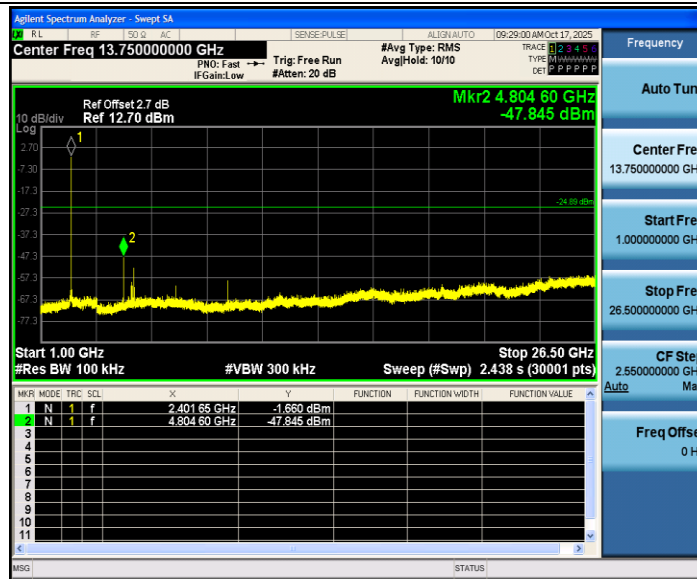
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-67.99	≤-24.89	PASS
			1000~26500	-4.89	-47.85	≤-24.89	PASS
		2440	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-67.64	≤-25.47	PASS
			1000~26500	-5.47	-46.66	≤-25.47	PASS
		2480	Reference	-6.01	-6.01	---	PASS
			30~1000	-6.01	-68.41	≤-26.01	PASS
			1000~26500	-6.01	-47.27	≤-26.01	PASS

Test Graphs

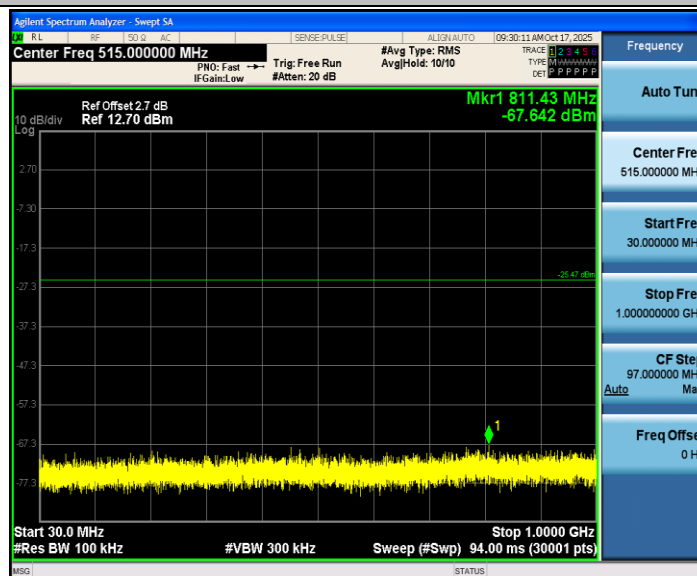




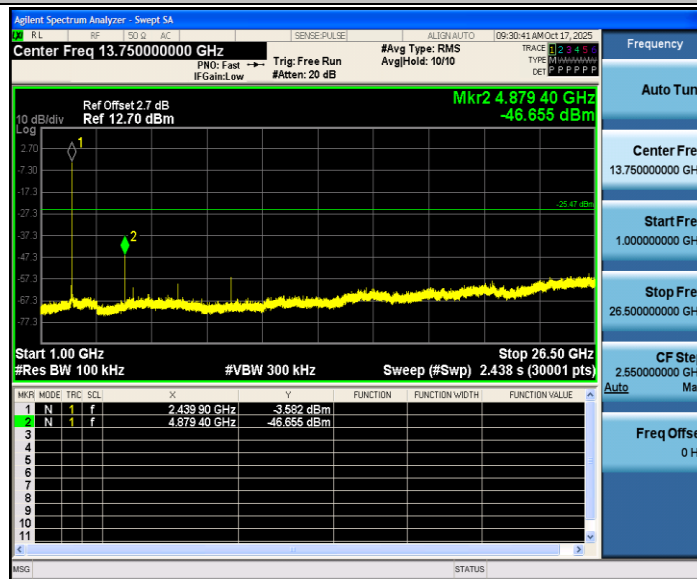
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



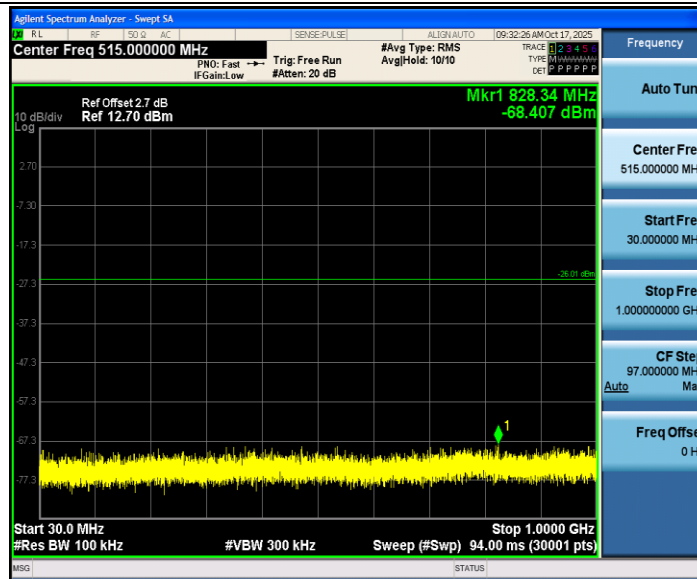
BLE_1M_Ant1_2440_1000~26500



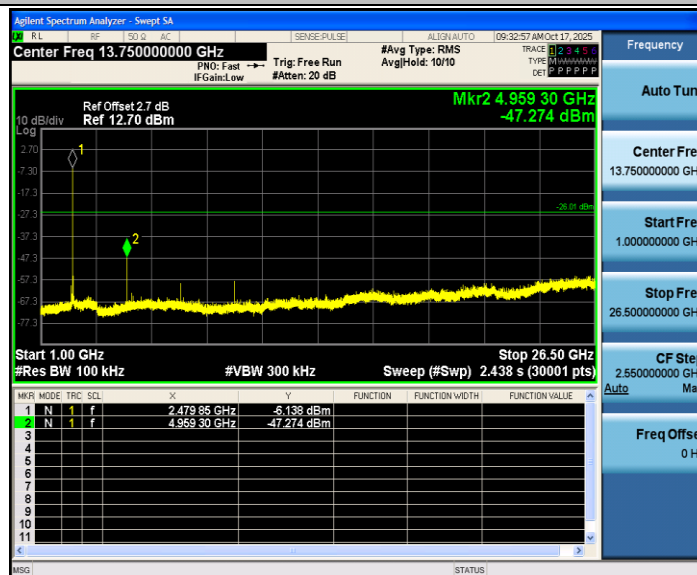
BLE_1M_Ant1_2480_0~Reference



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	0.63	0.6508	65.08	1.87	---	---

Test Graphs

