

FCC Appendix RF Test Data for BLE

FCC ID : 2BA4J-ZULUS

Company : Pangao Photoelectric

EUT : ZULUS 4K

Model Number : ZULUS 4K

Report No. : CTA25090200101

Reviewed By : Eric Wang

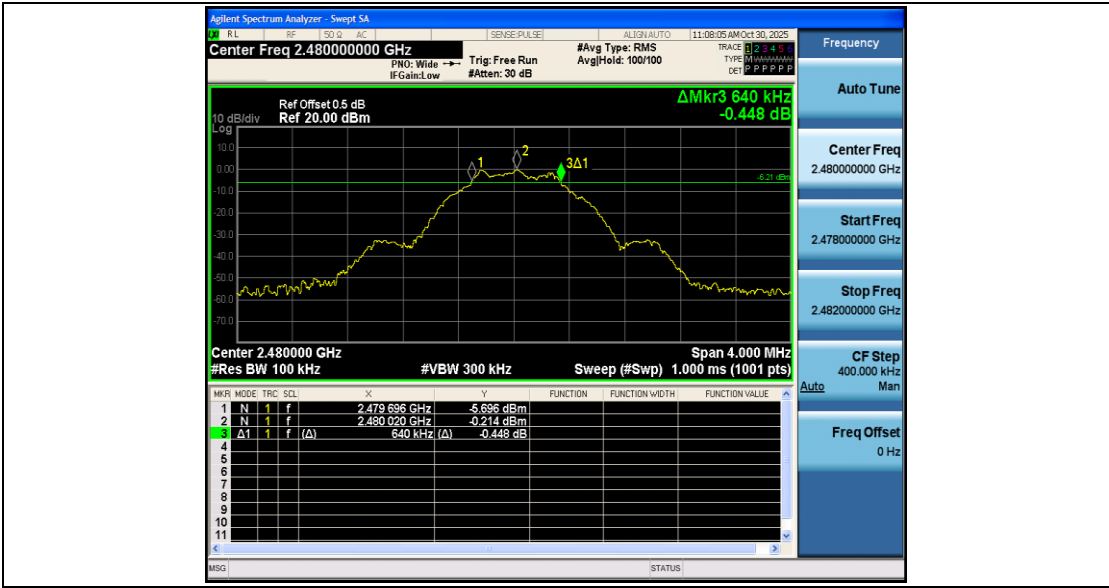
Appendix A: DTS Bandwidth

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	2439.696	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



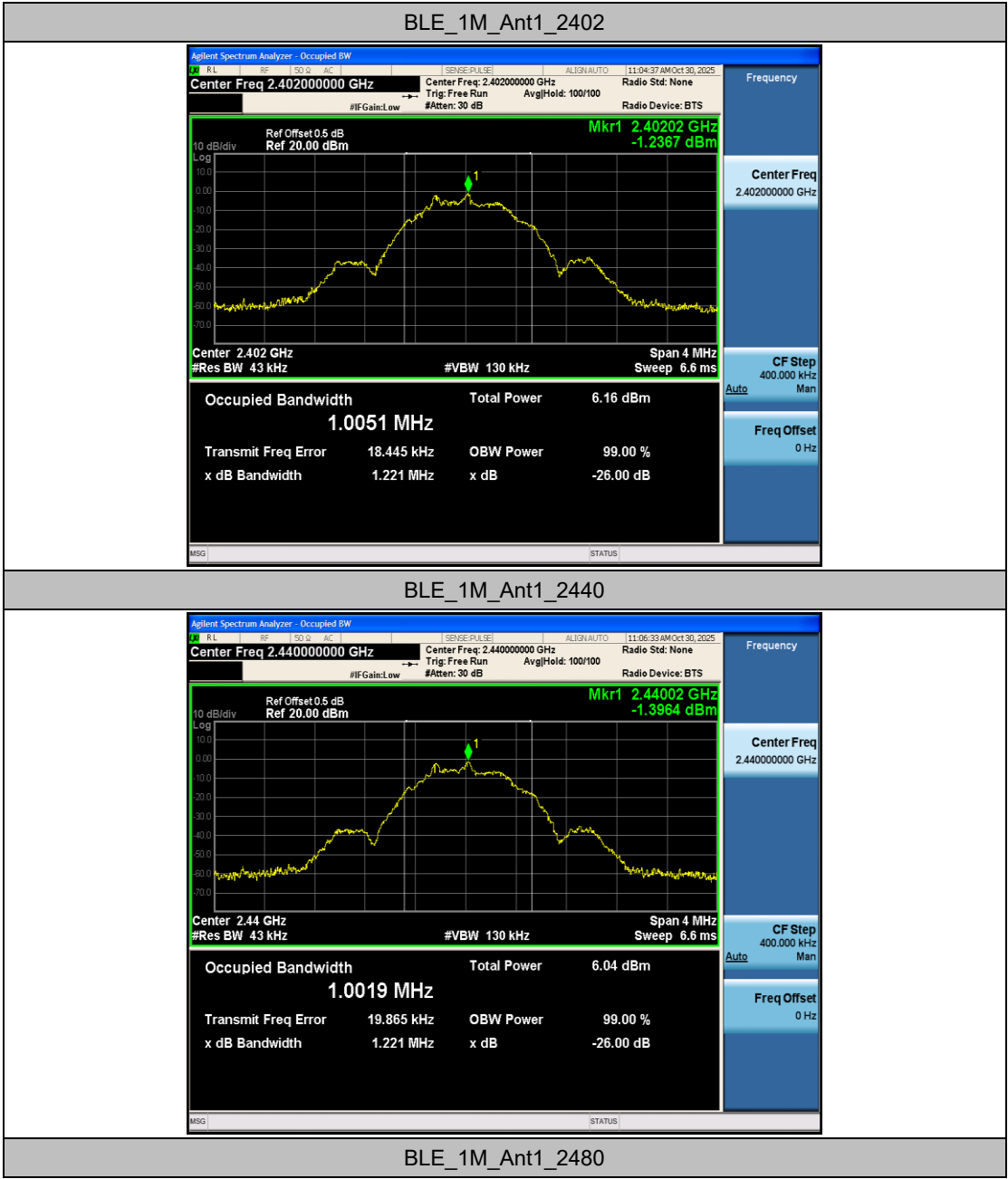


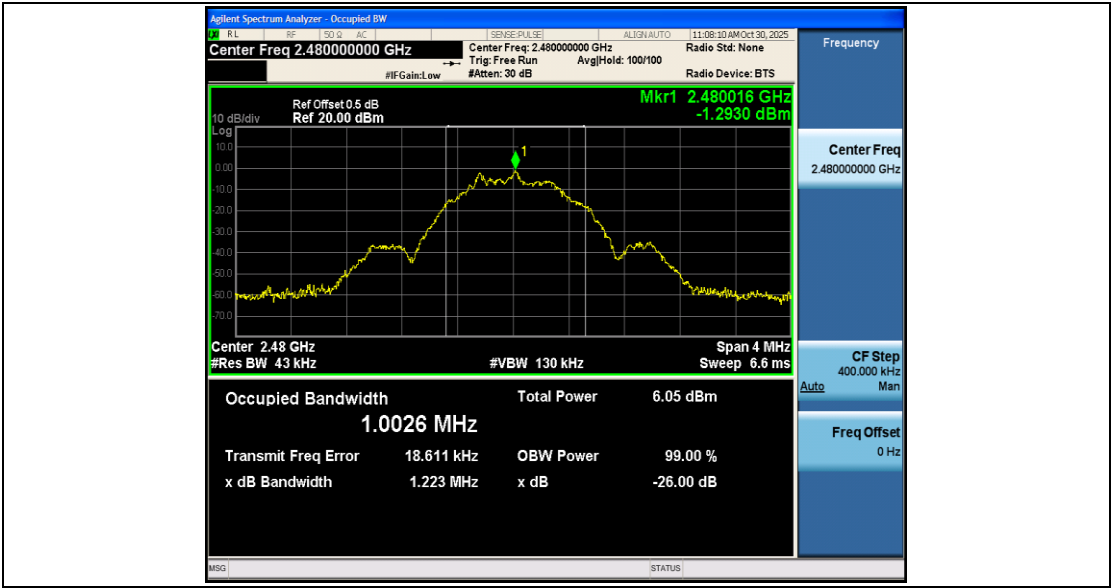
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0051	2401.5159	2402.5210	---	---
		2440	1.0019	2439.5189	2440.5208	---	---
		2480	1.0026	2479.5173	2480.5199	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

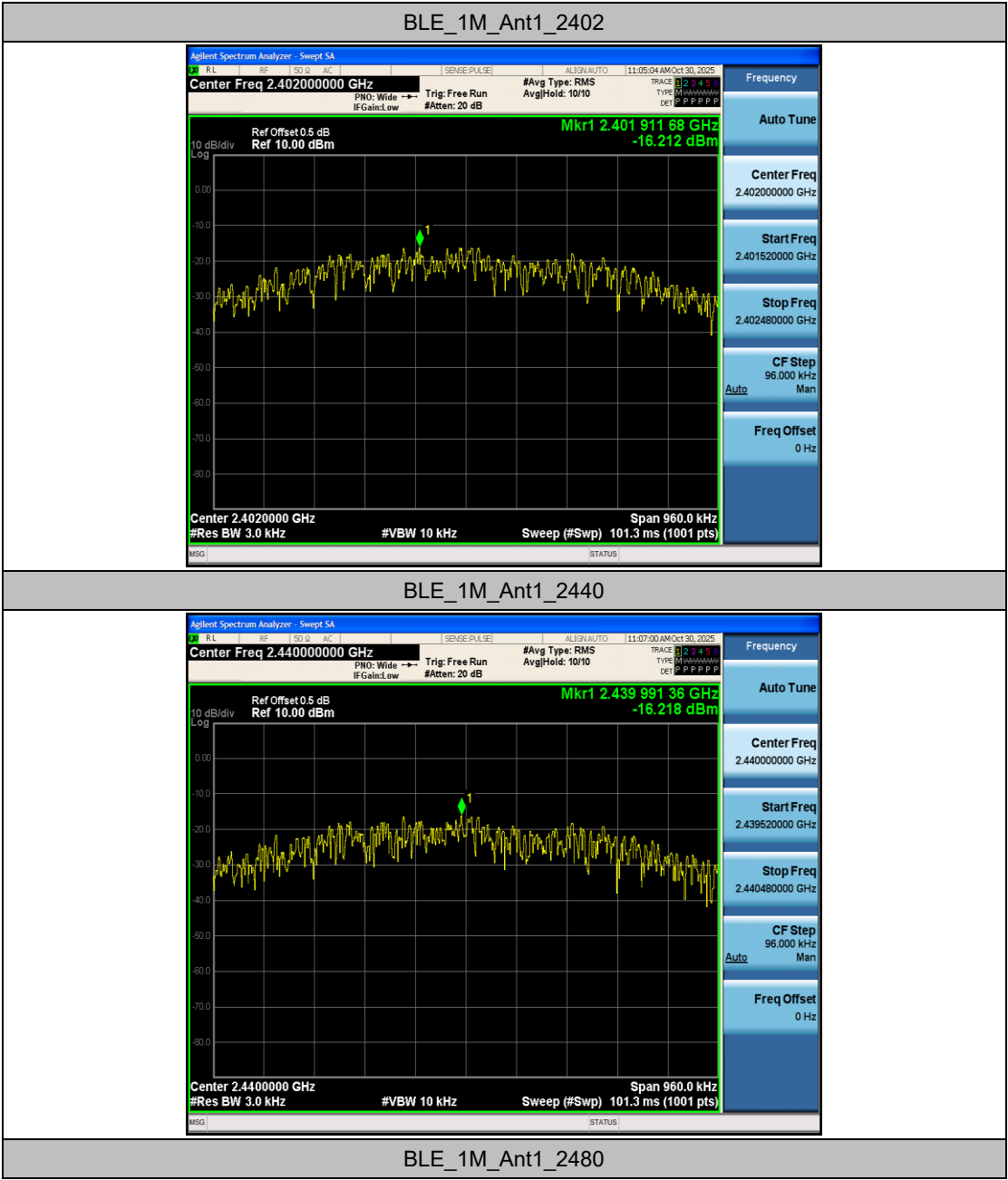
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.03	≤30	PASS
		2440	-0.19	≤30	PASS
		2480	-0.09	≤30	PASS

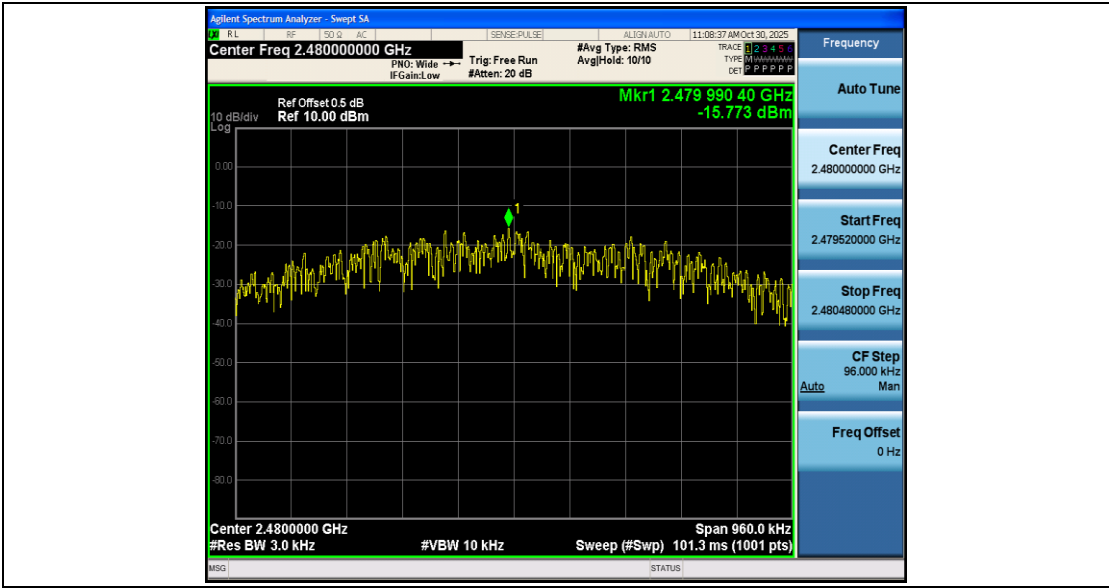
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.21	≤8.00	PASS
		2440	-16.22	≤8.00	PASS
		2480	-15.77	≤8.00	PASS

Test Graphs



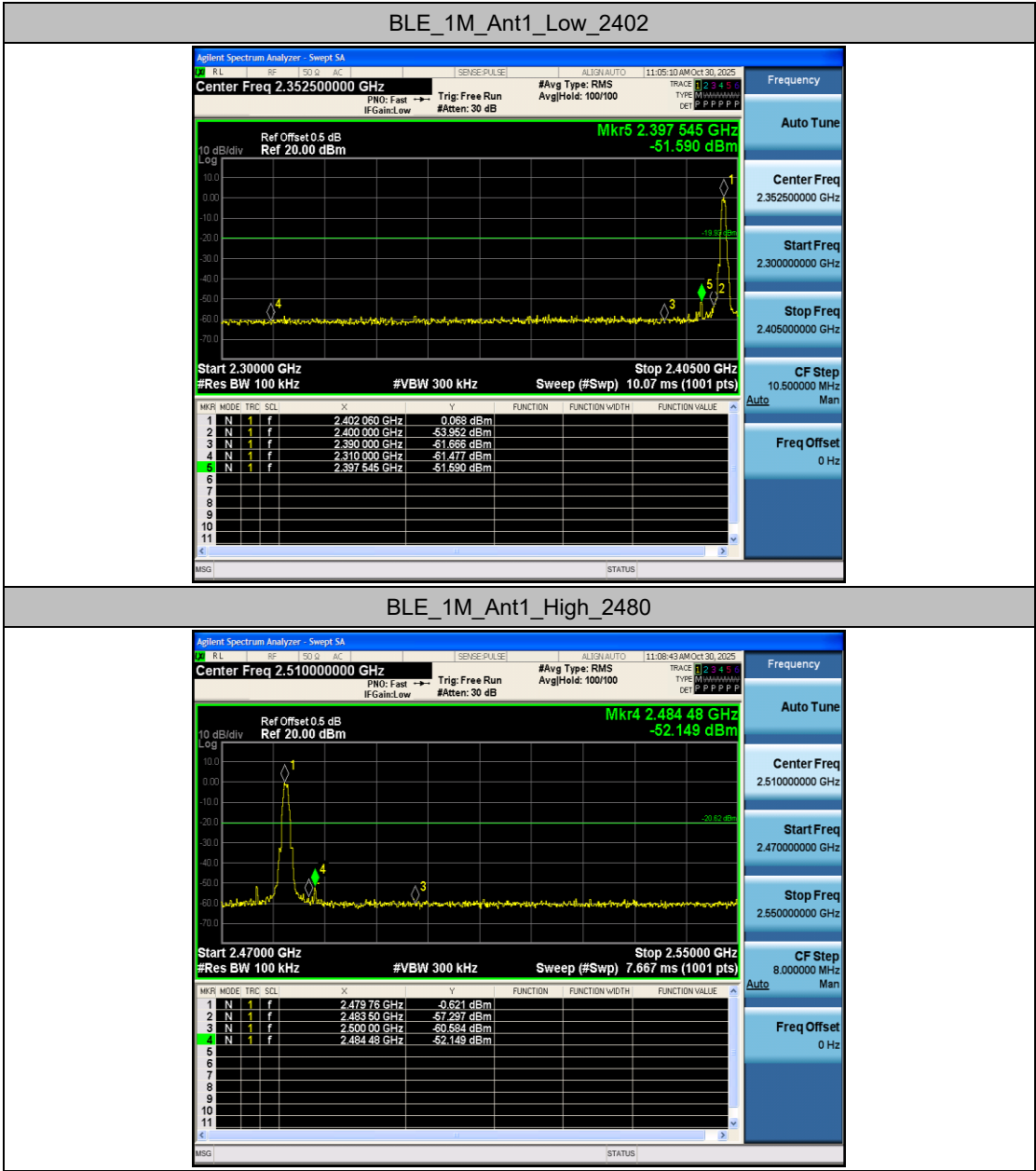


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.07	-51.59	≤-19.93	PASS
		High	2480	-0.62	-52.15	≤-20.62	PASS

Test Graphs

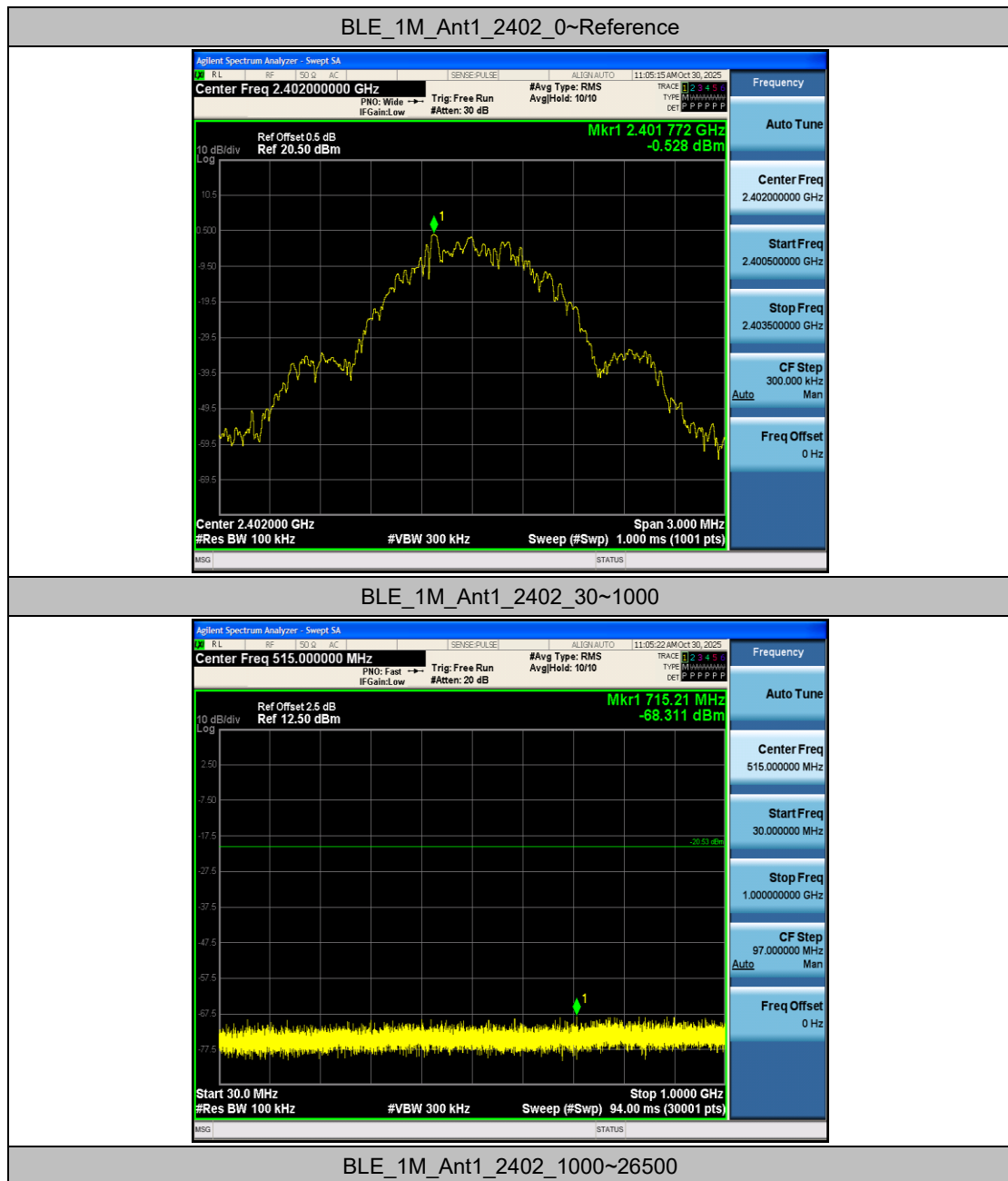


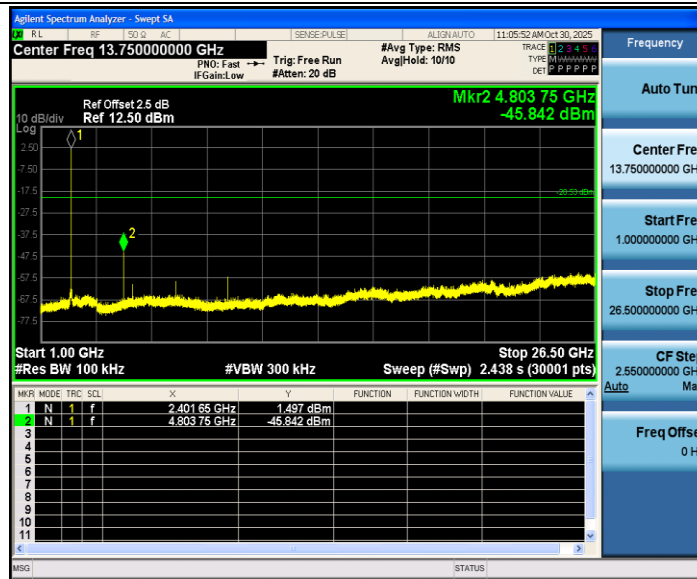
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-68.31	≤-20.53	PASS
			1000~26500	-0.53	-45.84	≤-20.53	PASS
		2440	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-57.21	≤-21.35	PASS
			1000~26500	-1.35	-42.42	≤-21.35	PASS
		2480	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-67.05	≤-21.08	PASS
			1000~26500	-1.08	-41.77	≤-21.08	PASS

Test Graphs

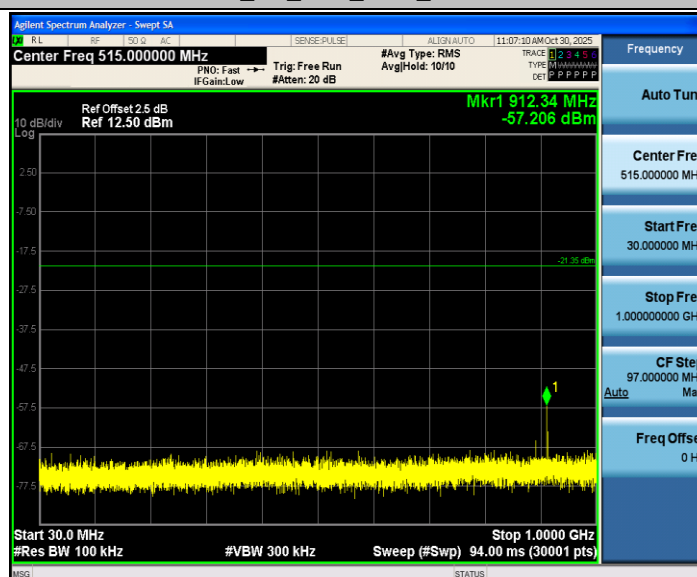




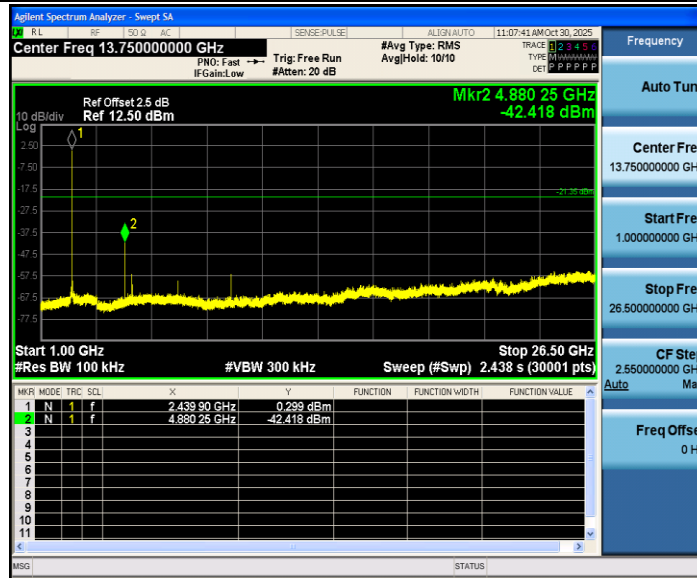
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



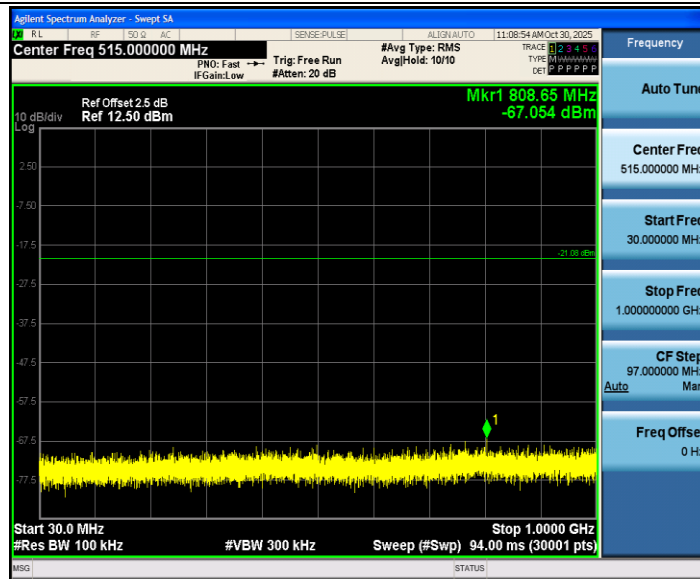
BLE_1M_Ant1_2440_1000~26500



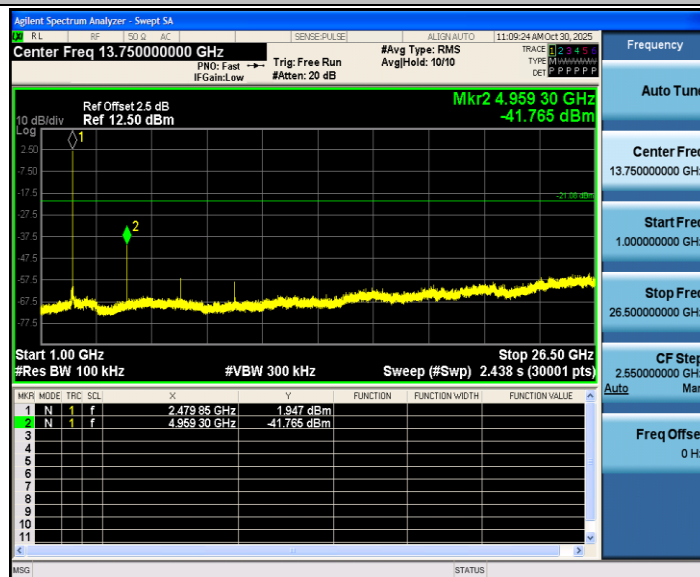
BLE_1M_Ant1_2480_0~Reference



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

