

FCC Appendix RF Test Data for BLE

FCC ID : 2A6A8-A01

Company : Shenzhenshilaikekejixiangongsi

EUT : automatic chicken coop door

Model Number : A01

Report No. : CTA25121801501

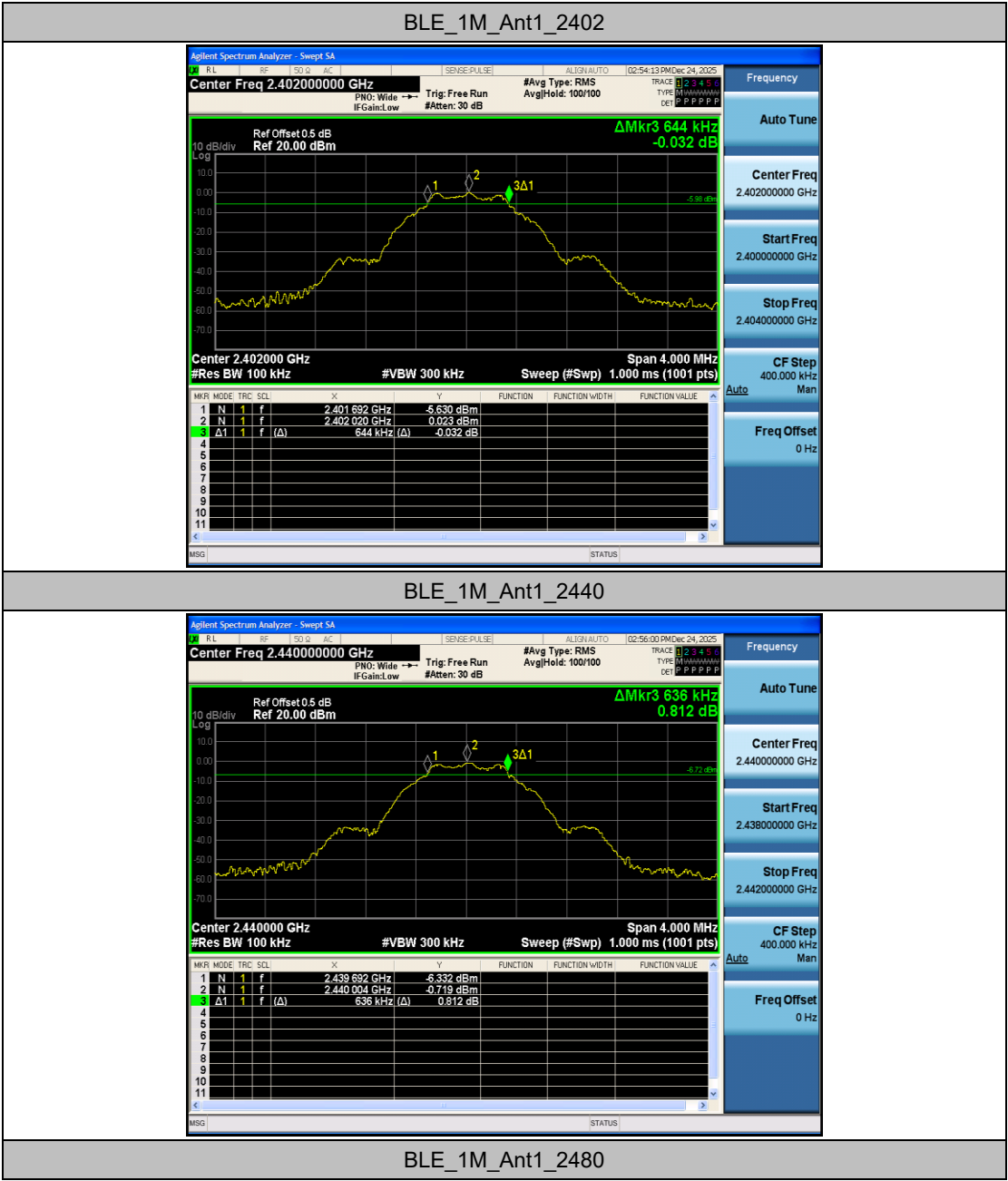
Reviewed By : Eric Wang

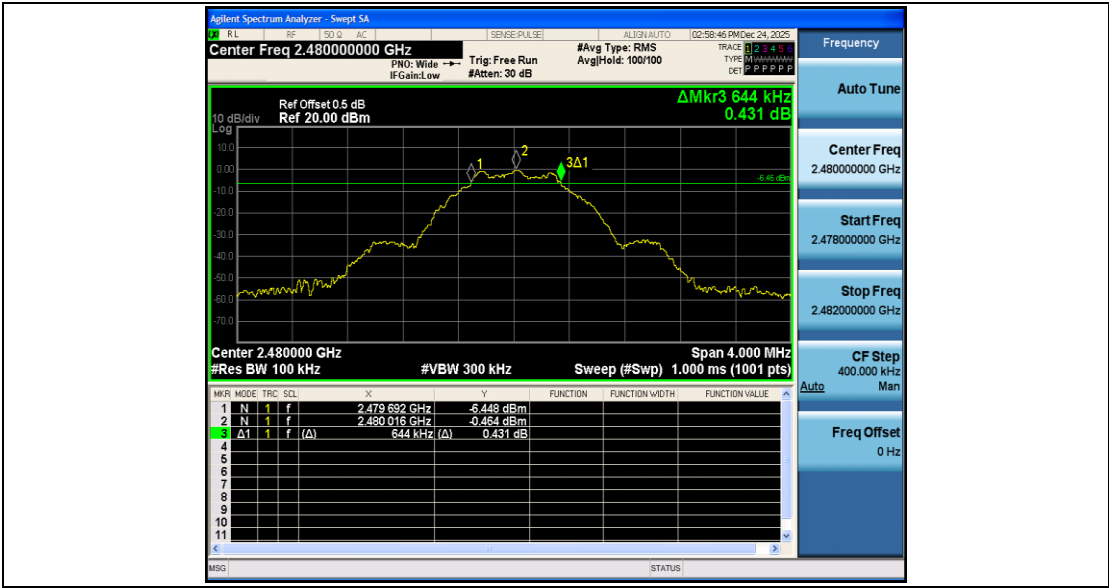
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.692	2402.336	0.5	PASS
		2440	0.636	2439.692	2440.328	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



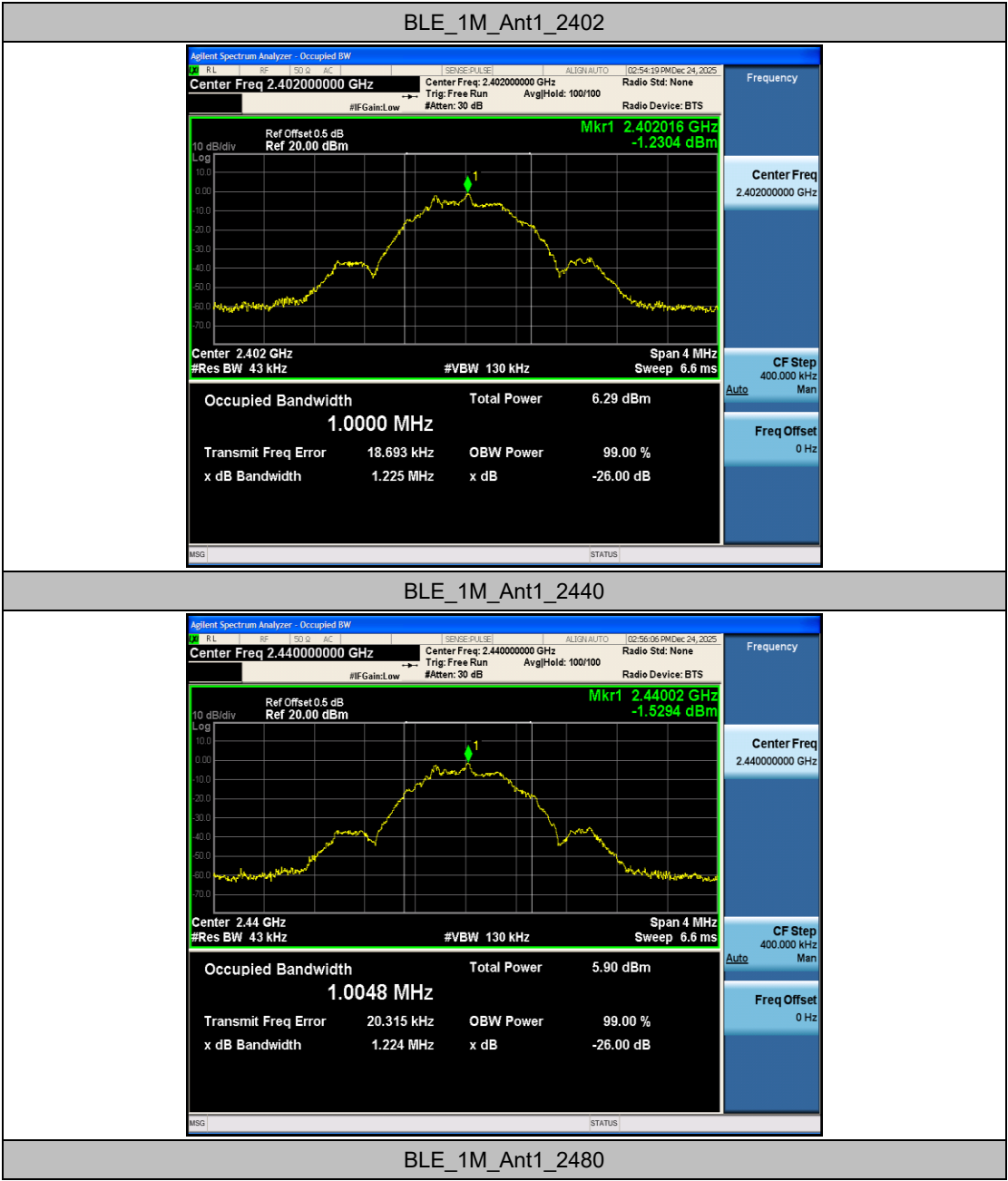


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0000	2401.5187	2402.5187	---	---
		2440	1.0048	2439.5179	2440.5227	---	---
		2480	1.0015	2479.5184	2480.5199	---	---

Test Graphs



Appendix C: Maximum conducted output power

Test Result Peak

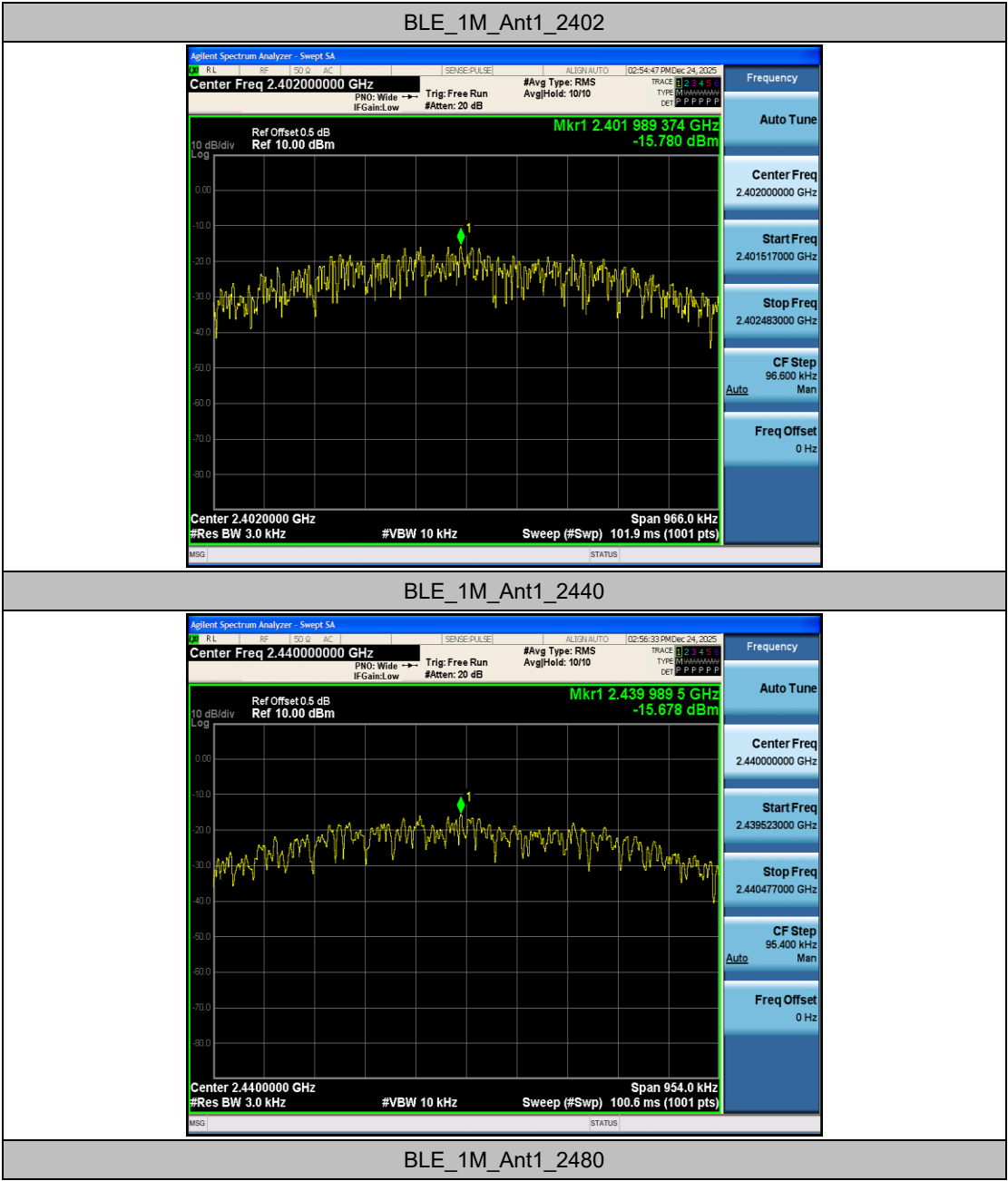
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.14	≤30	PASS
		2440	-0.25	≤30	PASS
		2480	-0.27	≤30	PASS

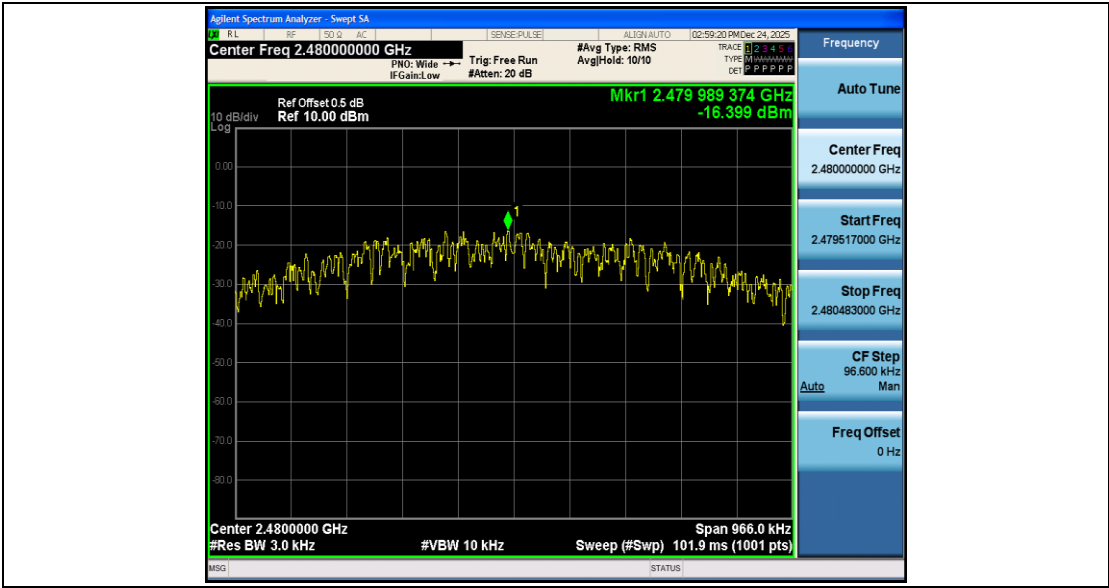
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.78	≤8.00	PASS
		2440	-15.68	≤8.00	PASS
		2480	-16.40	≤8.00	PASS

Test Graphs



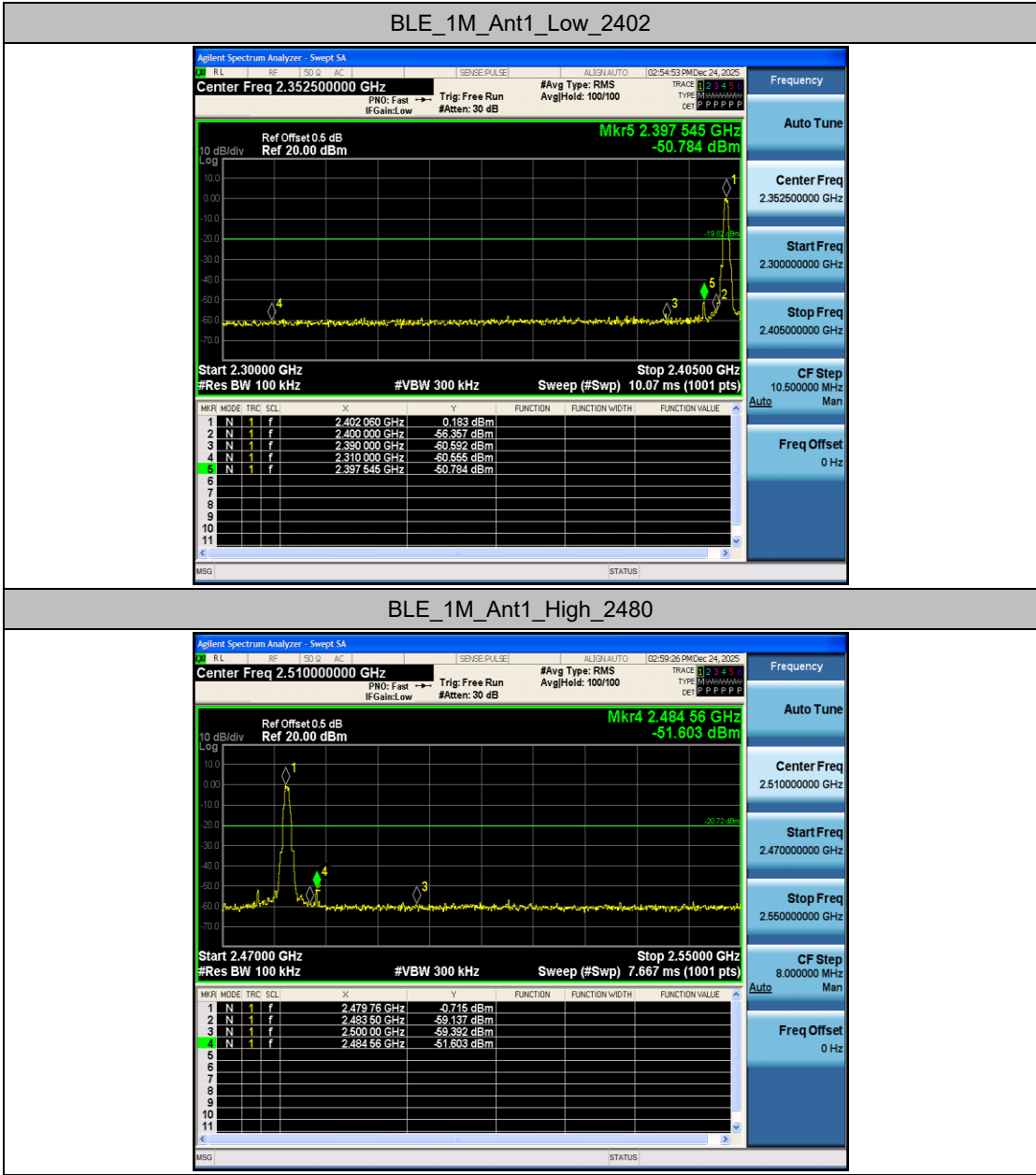


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	0.18	-50.78	≤-19.82	PASS
		High	2480	-0.72	-51.6	≤-20.72	PASS

Test Graphs

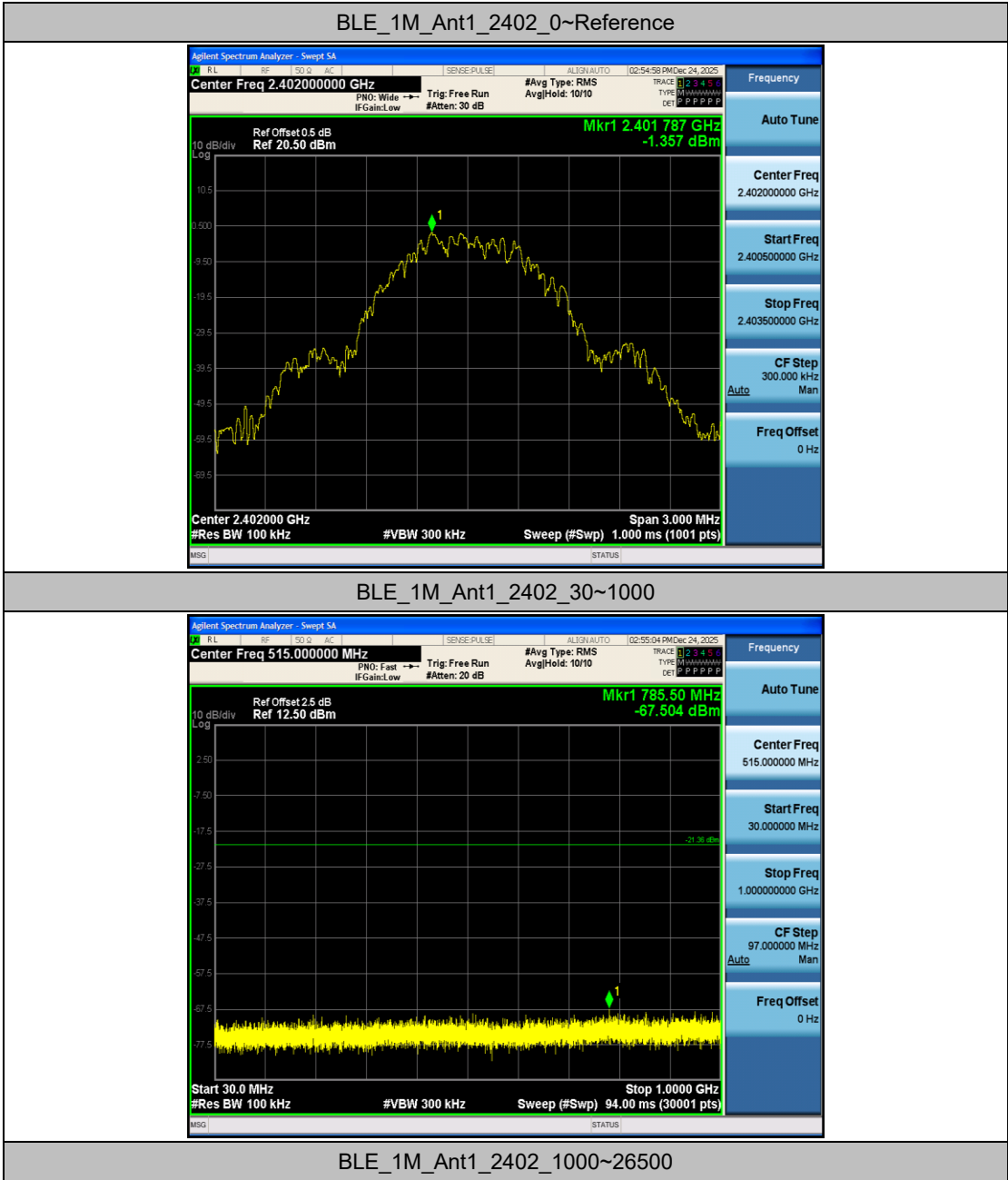


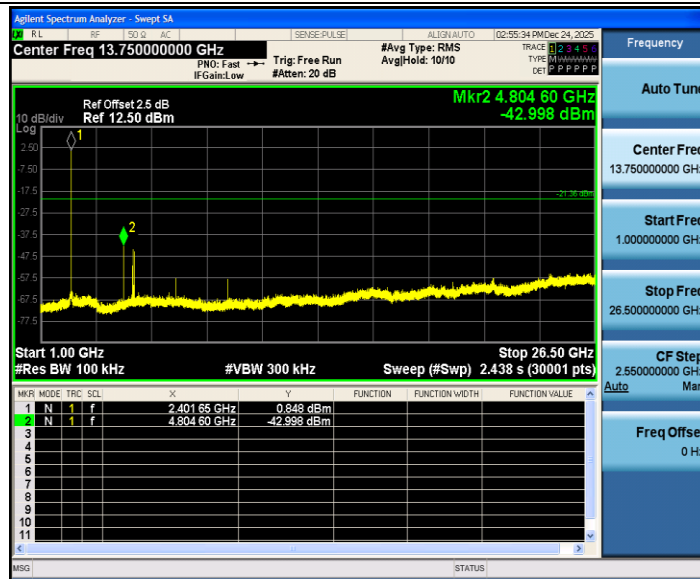
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-67.5	≤-21.36	PASS
			1000~26500	-1.36	-43	≤-21.36	PASS
		2440	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-31.04	≤-20.75	PASS
			1000~26500	-0.75	-42.02	≤-20.75	PASS
		2480	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-66.77	≤-21.25	PASS
			1000~26500	-1.25	-42.36	≤-21.25	PASS

Test Graphs

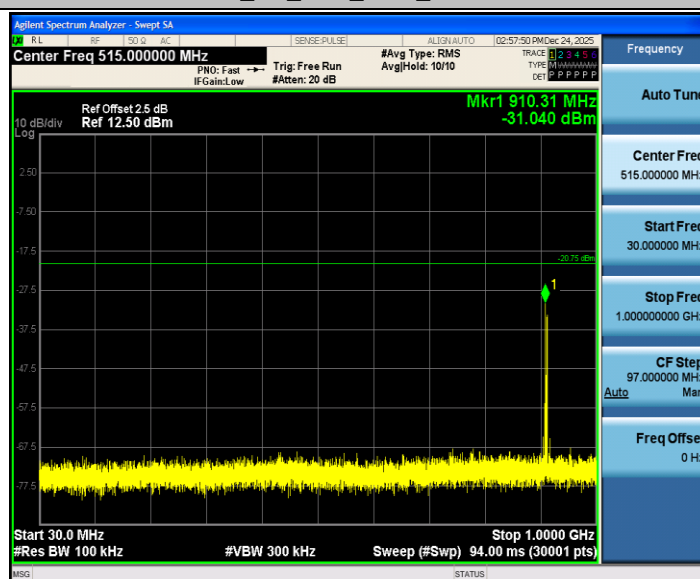




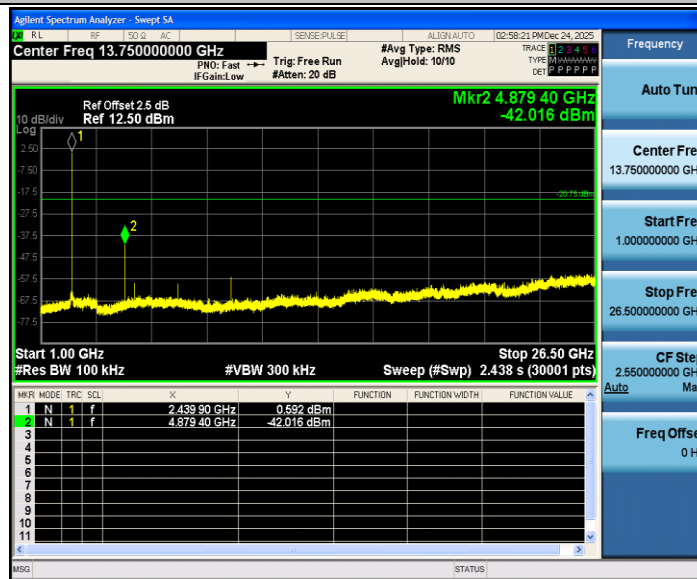
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



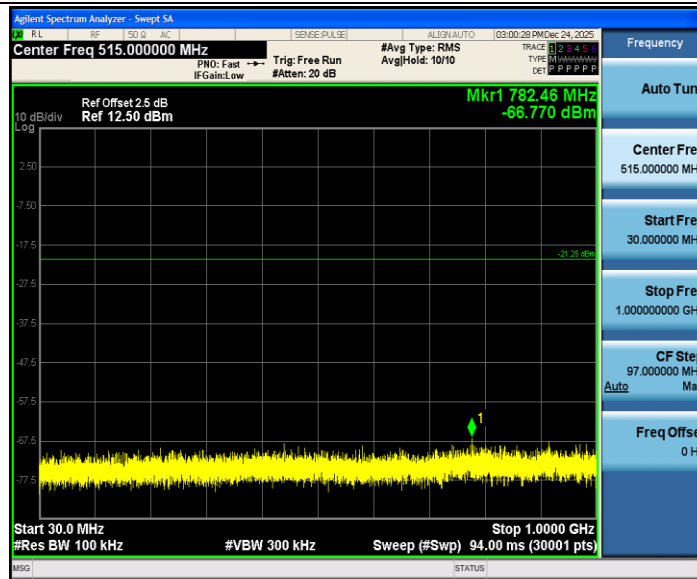
BLE_1M_Ant1_2440_1000~26500



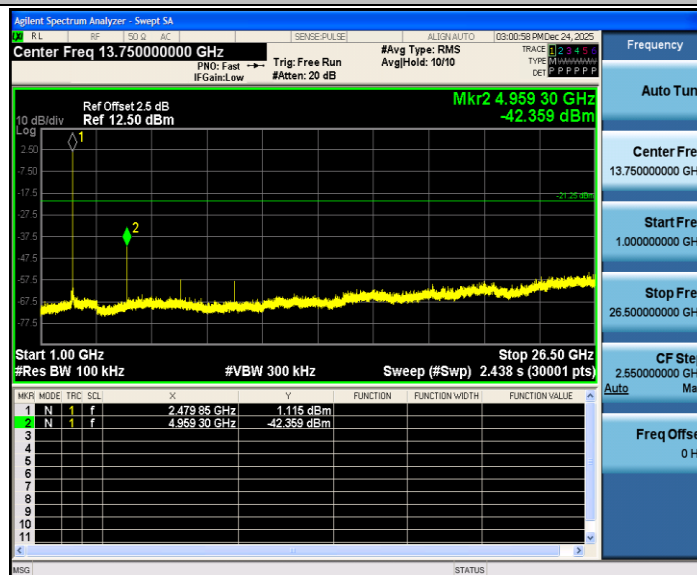
BLE_1M_Ant1_2480_0~Reference



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

