

FCC Appendix RF Test Data for BLE

FCC ID : 2BN53-AIMB-G5

Company : Shenzhen Huaxinchen Technology Co., Ltd

EUT : AI Smart Glasses With Wi Fi Camera

Model Number : AiMB-G5

Report No. : CTA25120400401

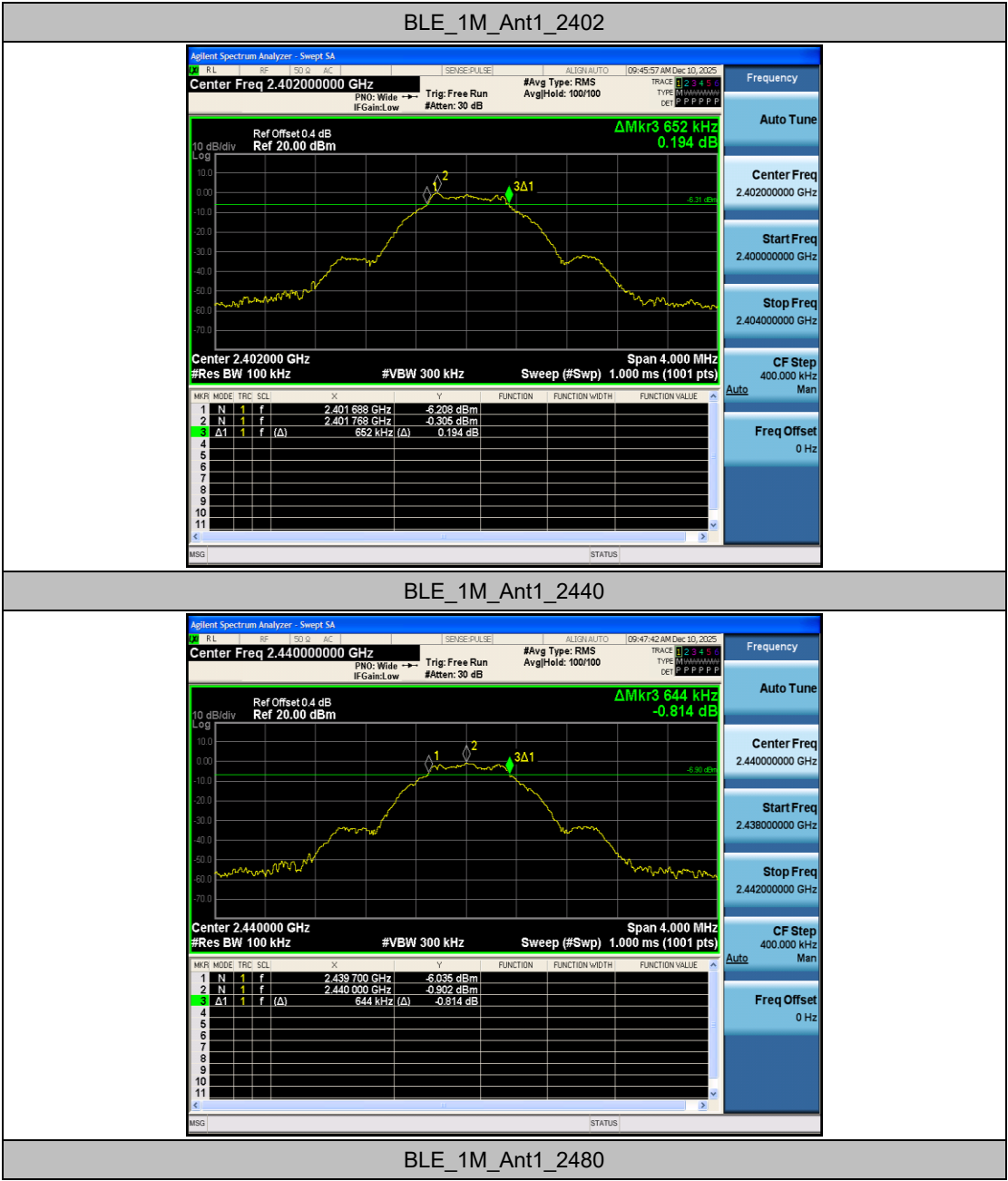
Reviewed By : Eric Wang

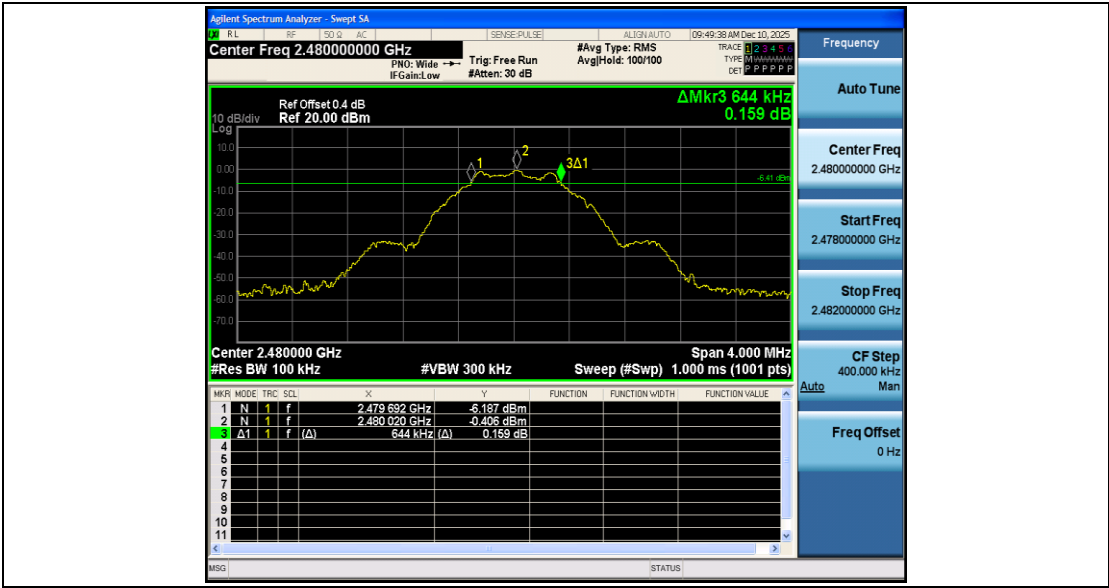
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.688	2402.340	0.5	PASS
		2440	0.644	2439.700	2440.344	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs





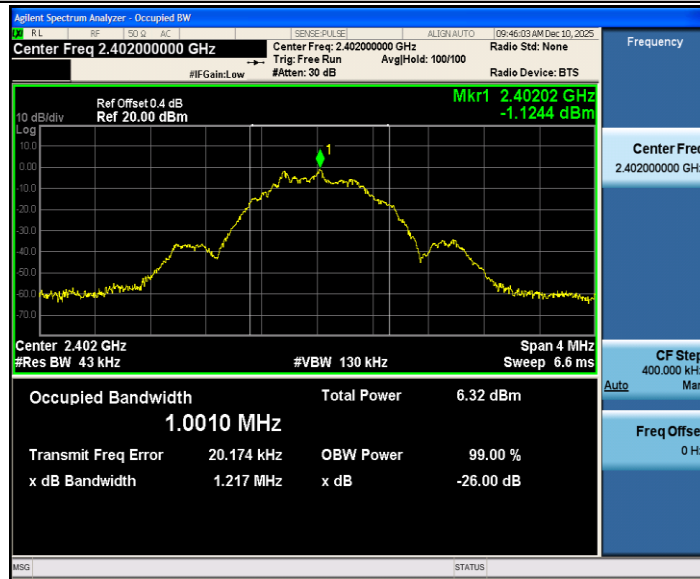
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0010	2401.5197	2402.5207	---	---
		2440	1.0072	2439.5165	2440.5237	---	---
		2480	1.0076	2479.5167	2480.5243	---	---

Test Graphs

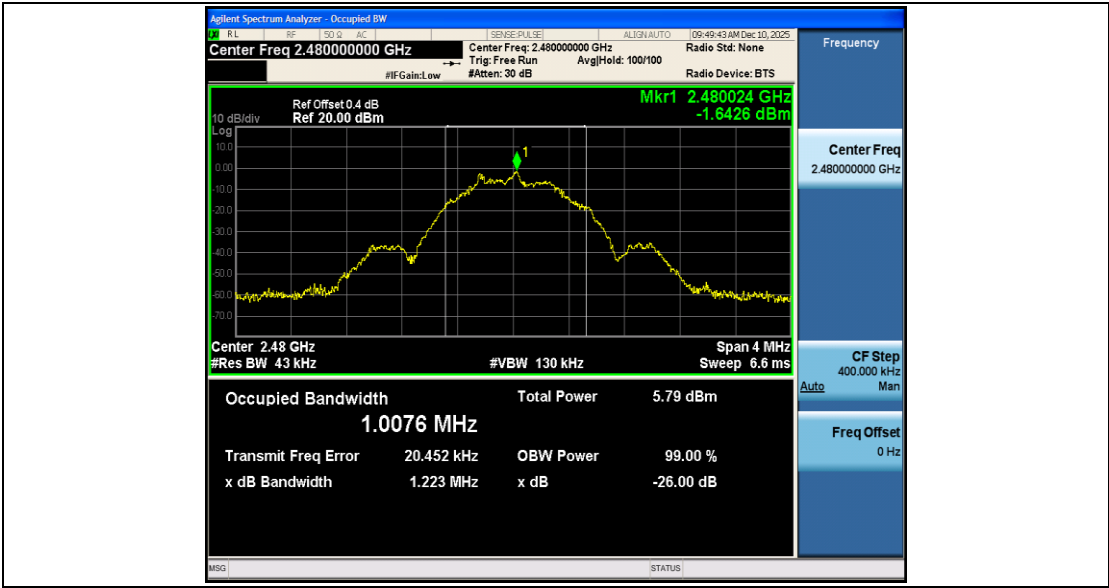
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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	-0.27	≤30	PASS
		2480	-0.30	≤30	PASS

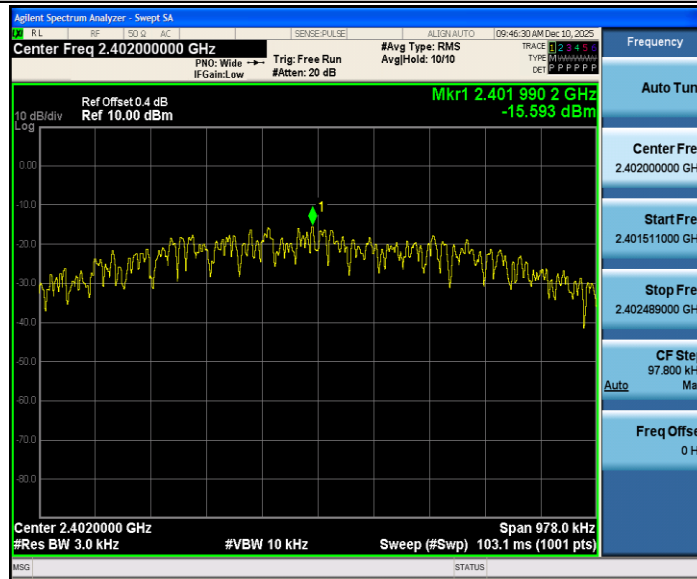
Appendix D: Maximum power spectral density

Test Result

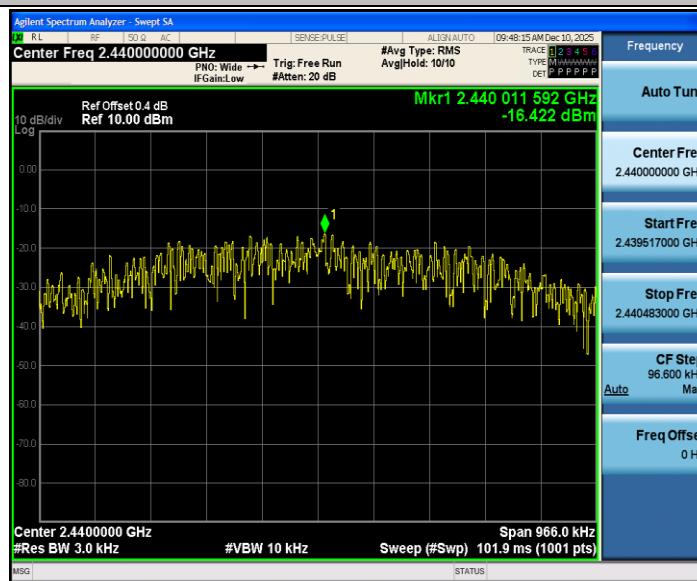
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.59	≤8.00	PASS
		2440	-16.42	≤8.00	PASS
		2480	-15.83	≤8.00	PASS

Test Graphs

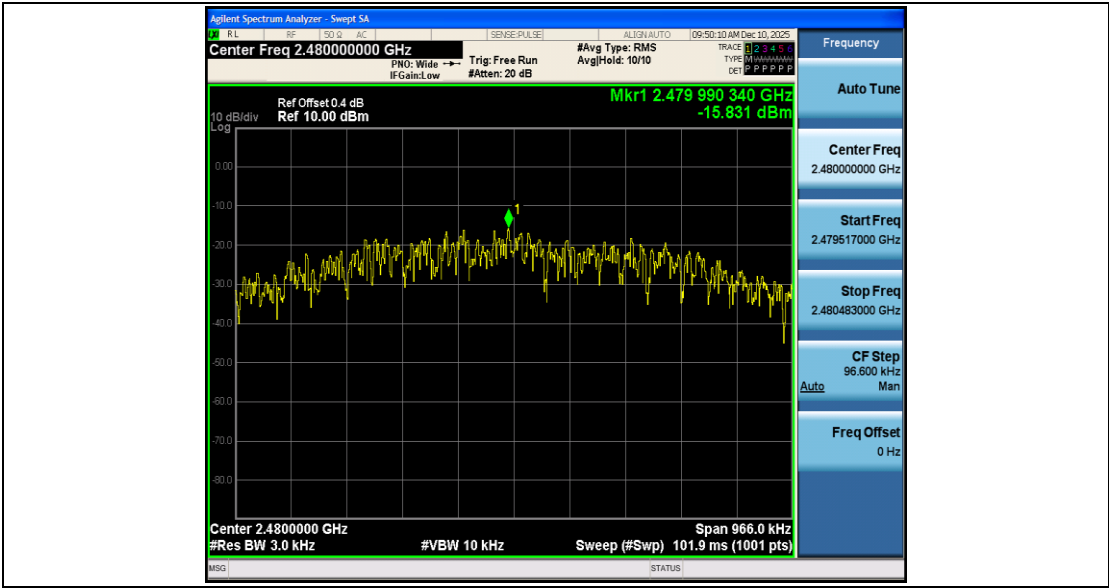
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

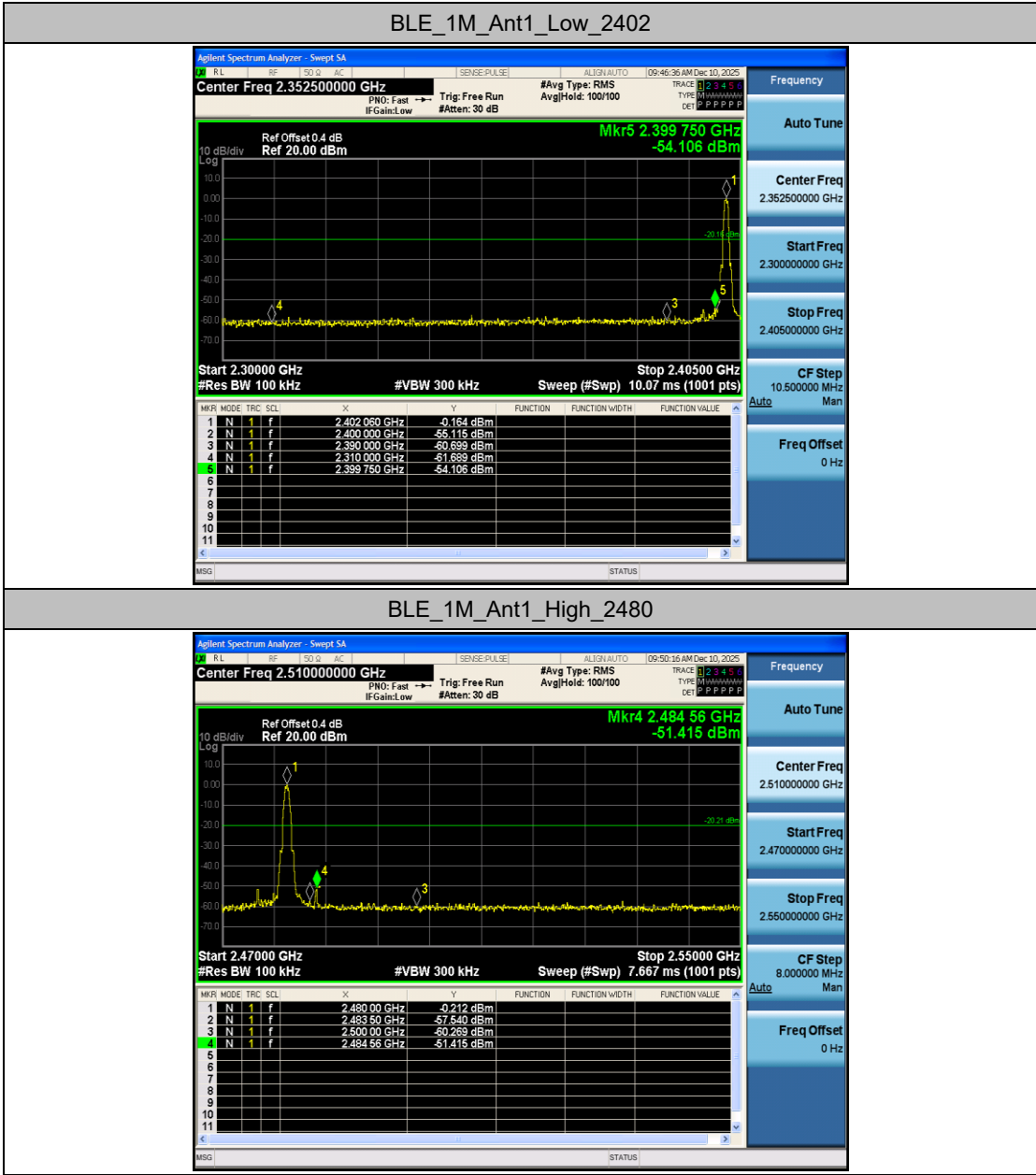


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.16	-54.11	≤-20.16	PASS
		High	2480	-0.21	-51.42	≤-20.21	PASS

Test Graphs

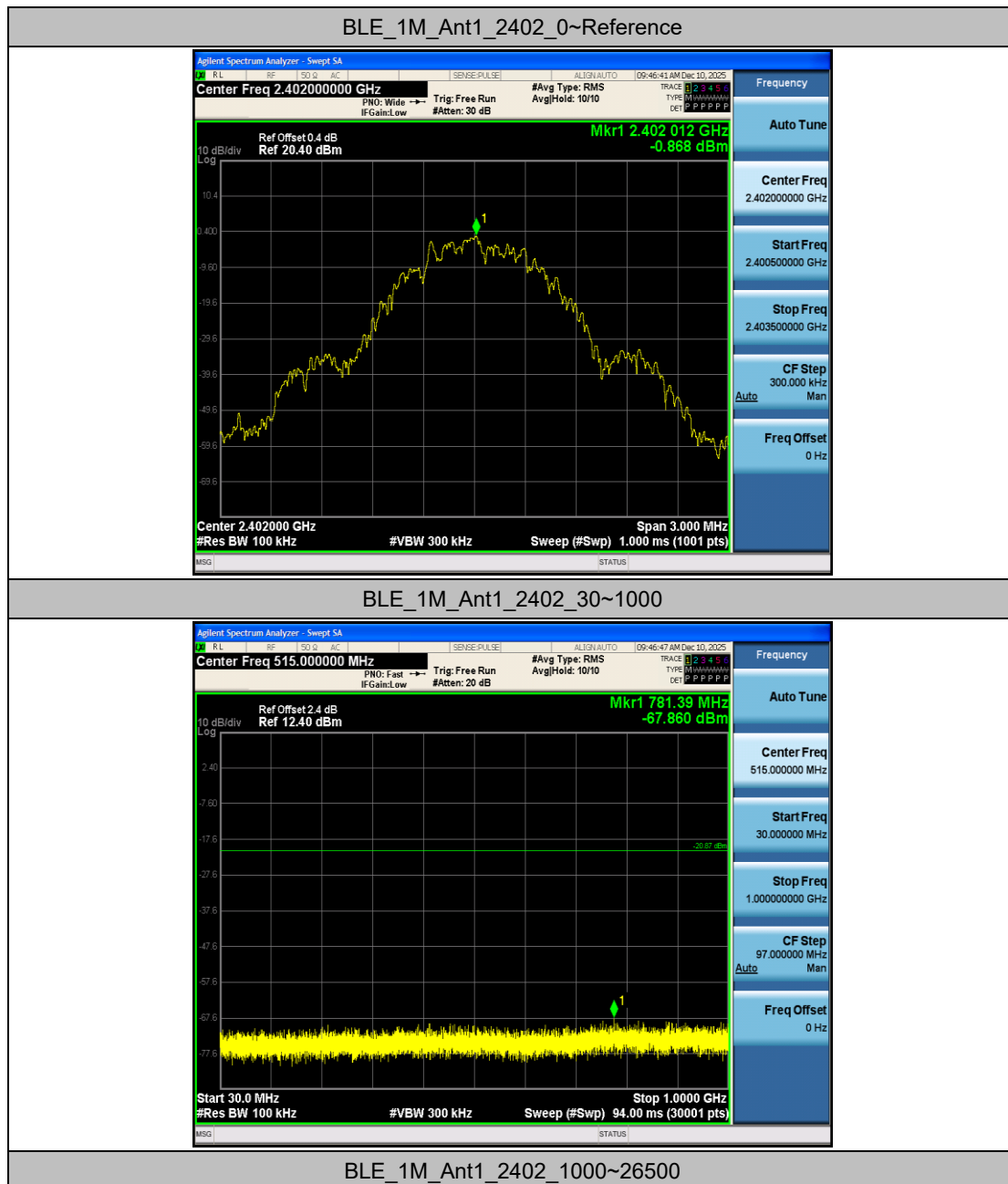


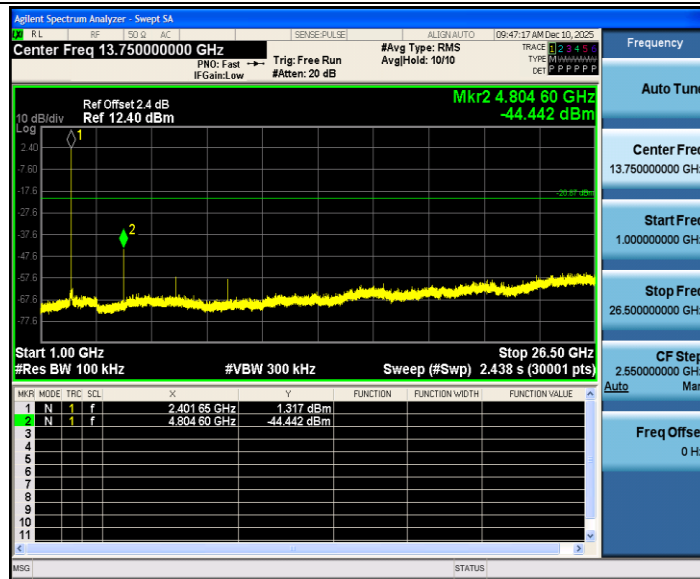
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-67.86	≤-20.87	PASS
			1000~26500	-0.87	-44.44	≤-20.87	PASS
		2440	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-67.89	≤-21.65	PASS
			1000~26500	-1.65	-43.3	≤-21.65	PASS
		2480	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-68.41	≤-21.88	PASS
			1000~26500	-1.88	-45.53	≤-21.88	PASS

Test Graphs

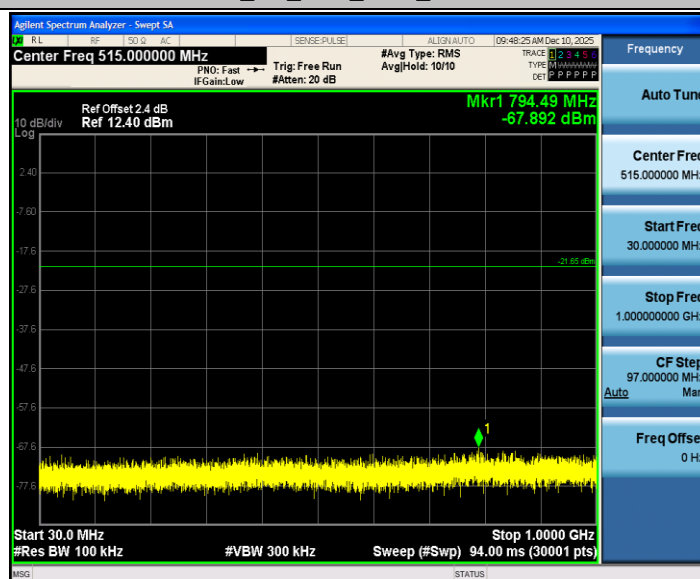




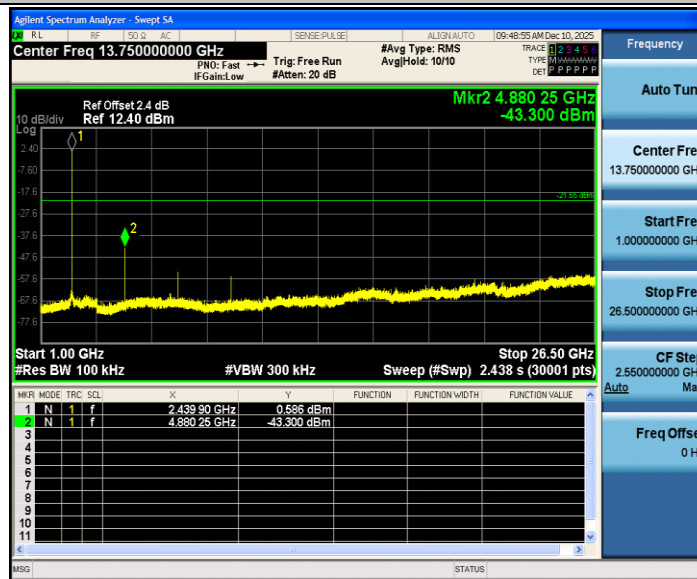
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



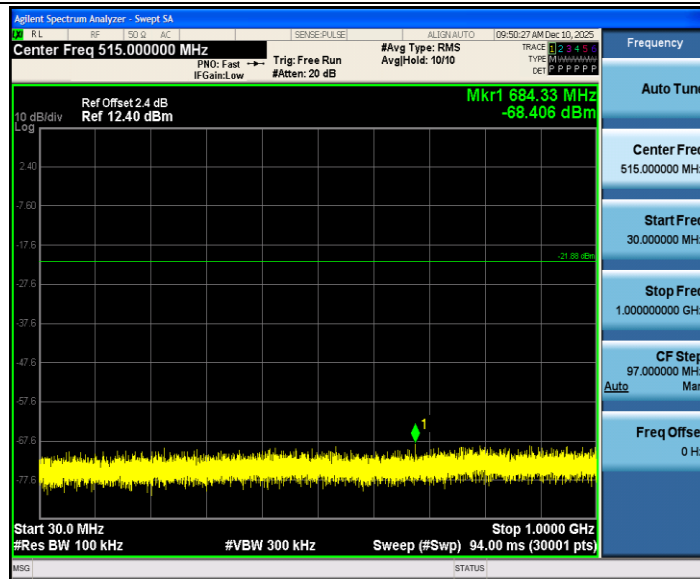
BLE_1M_Ant1_2440_1000~26500



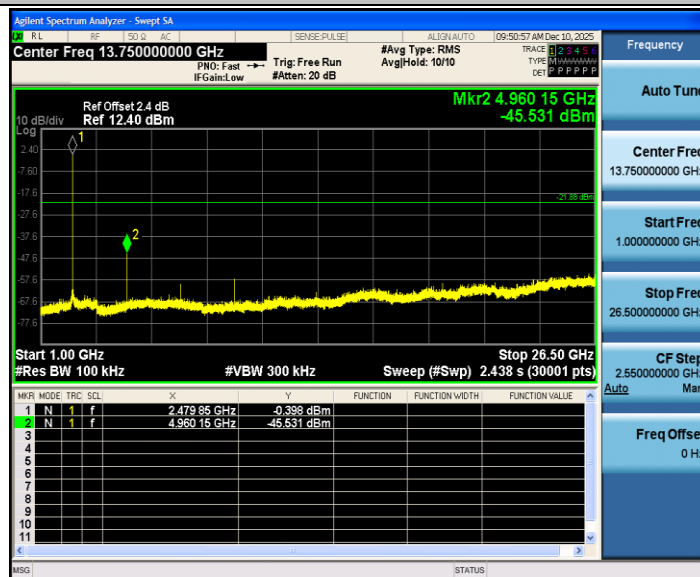
BLE_1M_Ant1_2480_0~Reference



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

