

FCC Appendix RF Test Data for BLE

FCC ID : 2BN53-AIMB-Z22MAX

Company : Shenzhen Huaxinchen Technology Co., Ltd

EUT : Smart Watch

Model Number : AiMB-Z22Max

Report No. : CTA25101300701

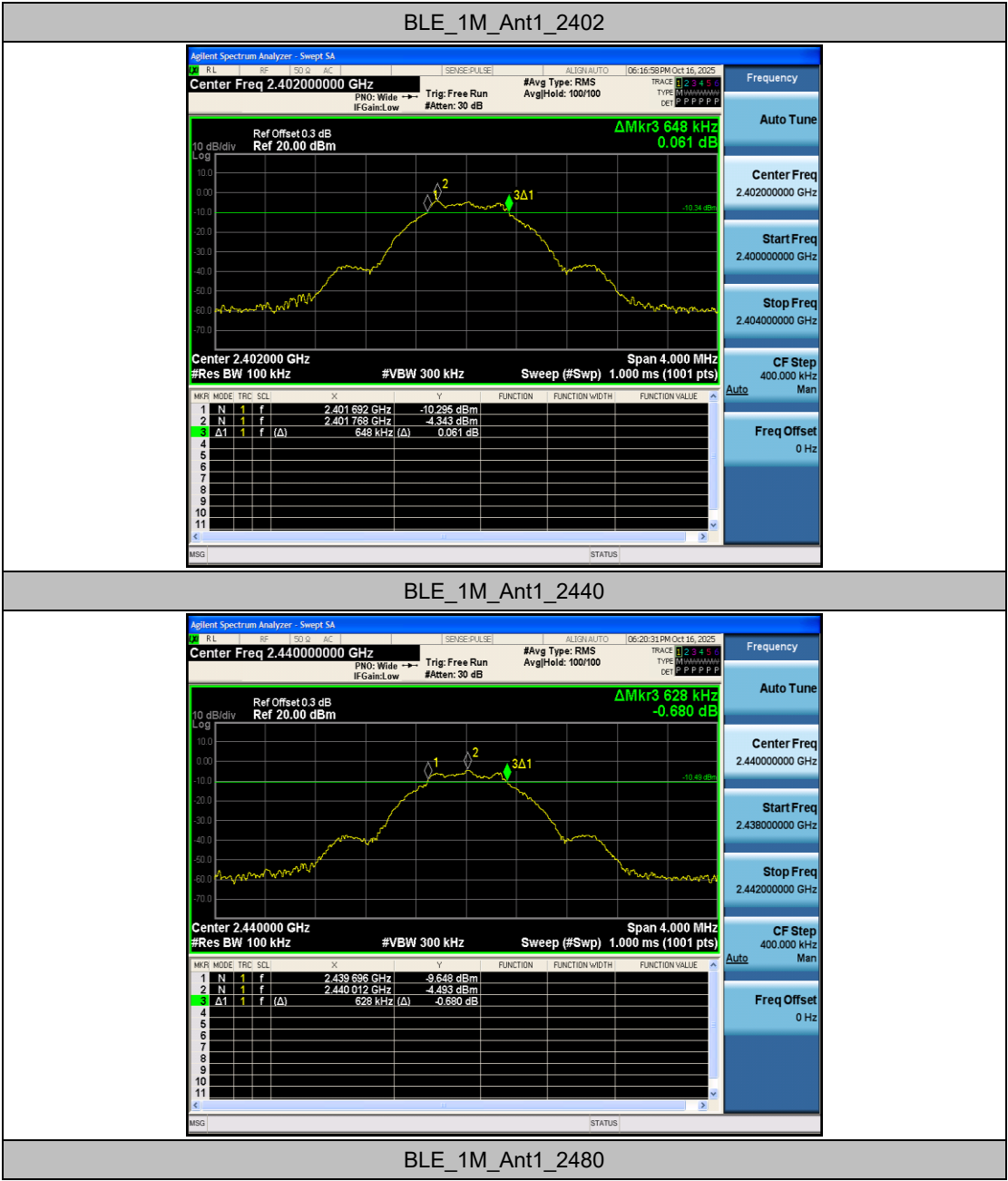
Reviewed By : Eric Wang

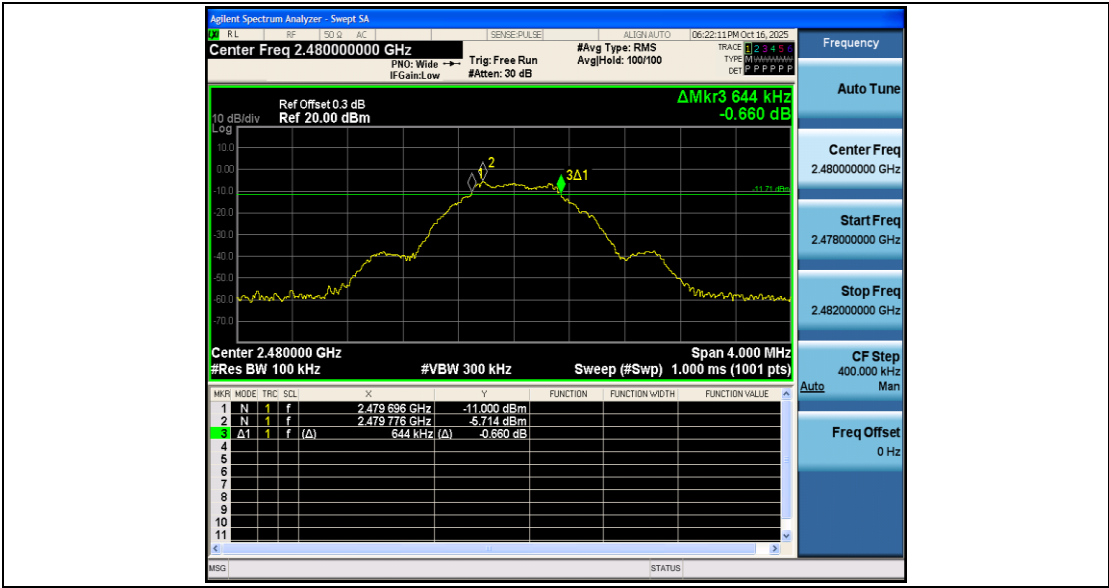
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.692	2402.340	0.5	PASS
		2440	0.628	2439.696	2440.324	0.5	PASS
		2480	0.644	2479.696	2480.340	0.5	PASS

Test Graphs



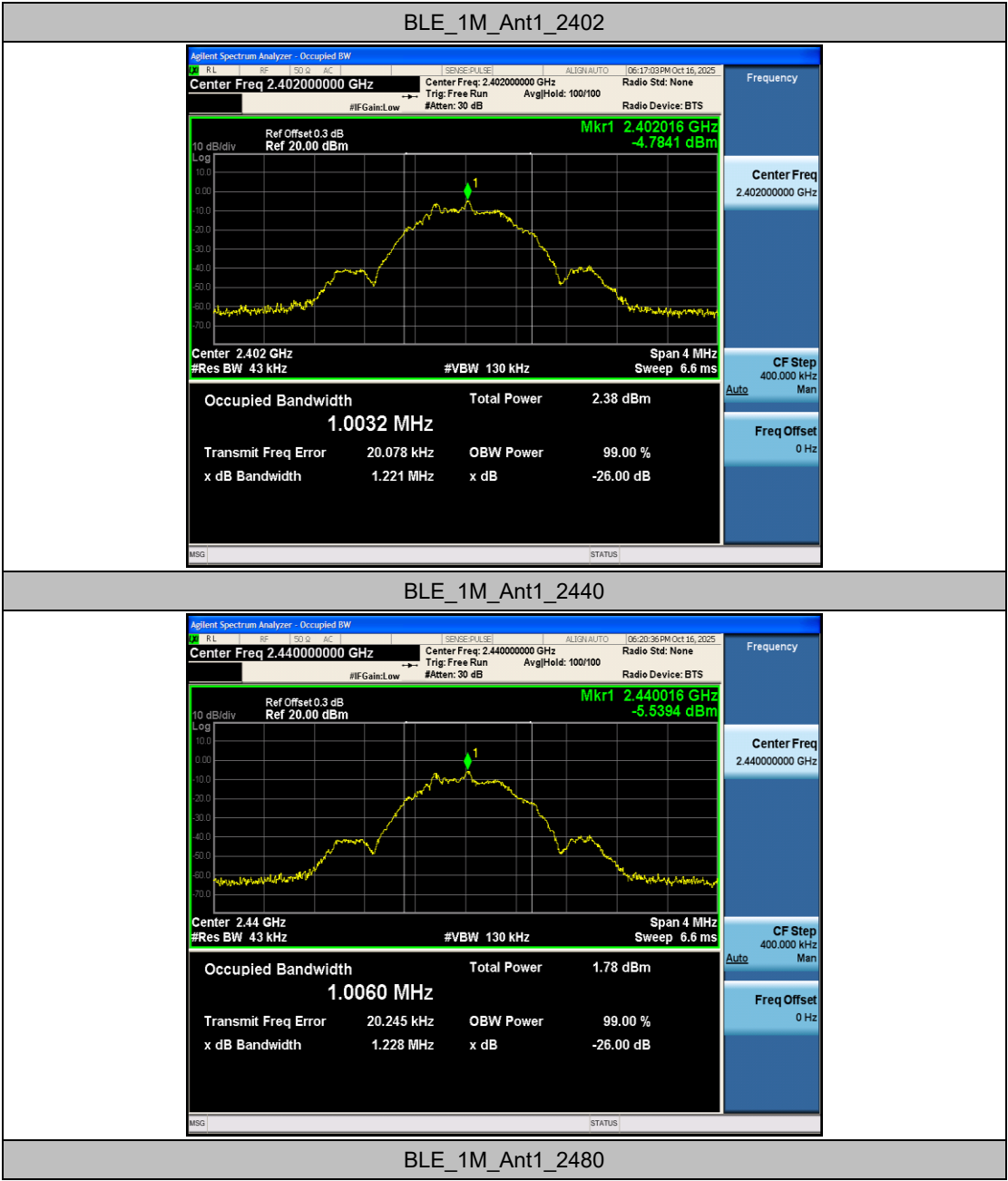


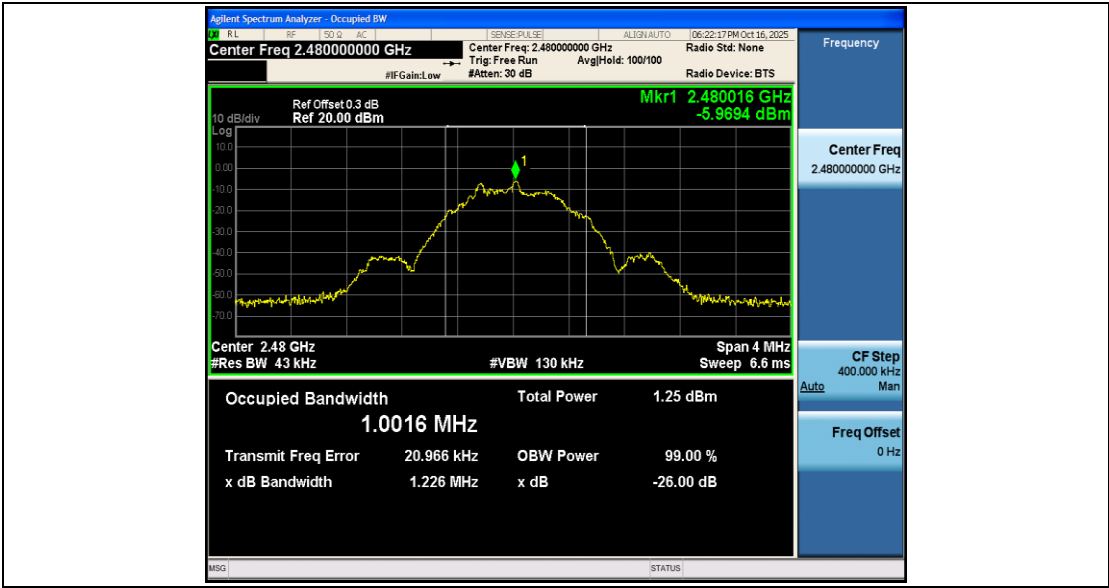
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0032	2401.5185	2402.5217	---	---
		2440	1.0060	2439.5172	2440.5232	---	---
		2480	1.0016	2479.5202	2480.5218	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

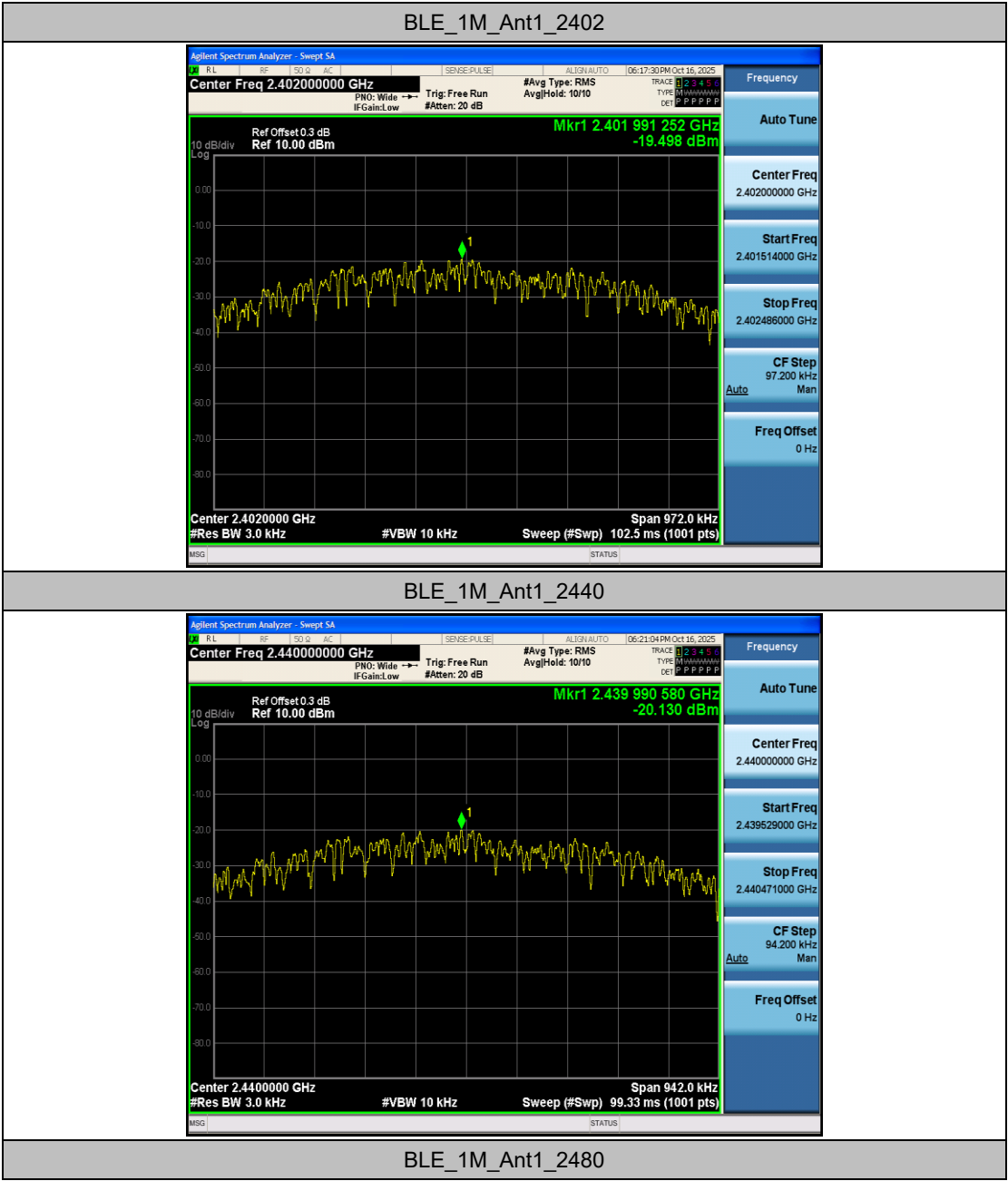
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.74	≤30	PASS
		2440	-4.35	≤30	PASS
		2480	-4.95	≤30	PASS

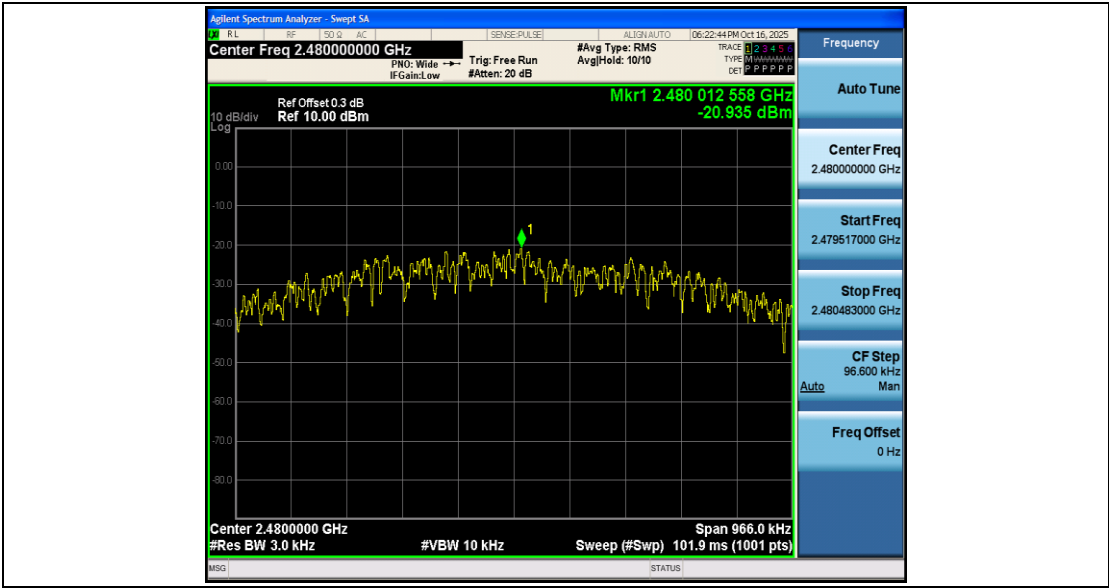
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.50	≤8.00	PASS
		2440	-20.13	≤8.00	PASS
		2480	-20.94	≤8.00	PASS

Test Graphs



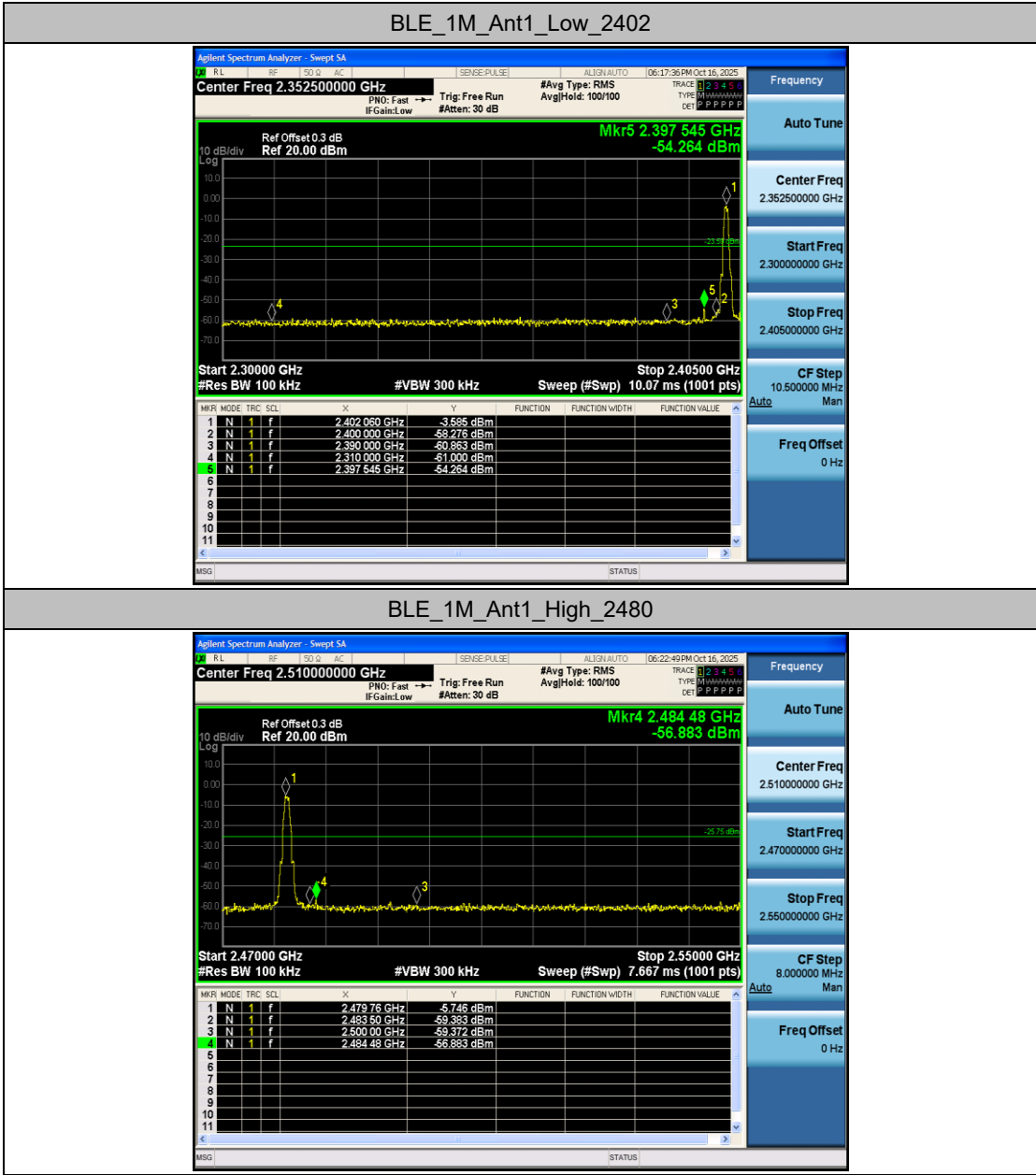


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.59	-54.26	≤-23.59	PASS
		High	2480	-5.75	-56.88	≤-25.75	PASS

Test Graphs

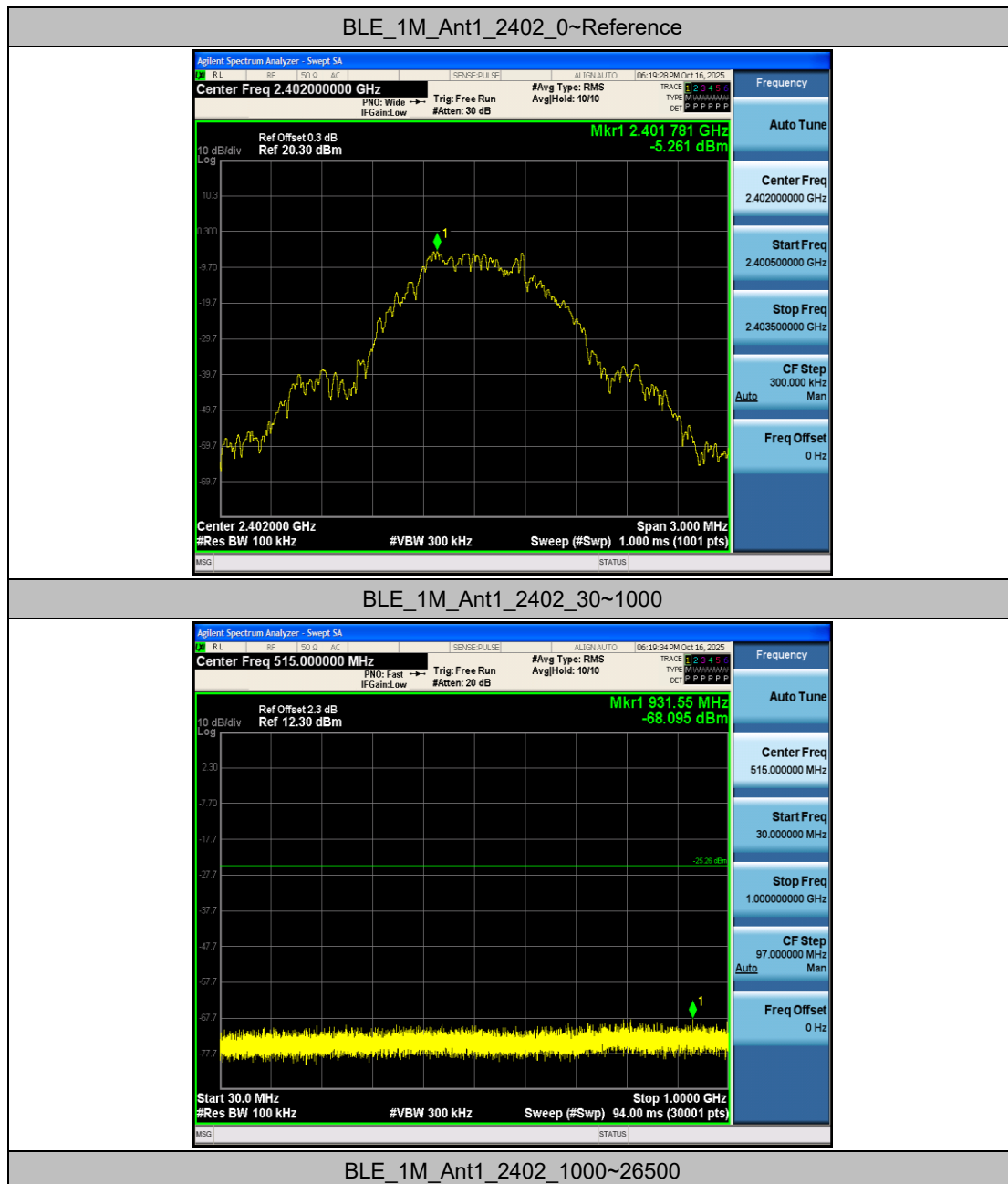


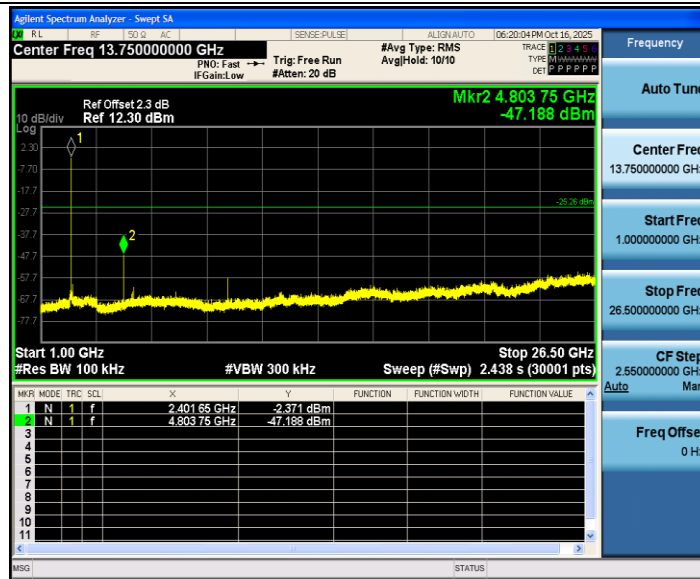
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-68.1	≤-25.26	PASS
			1000~26500	-5.26	-47.19	≤-25.26	PASS
		2440	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-67.73	≤-25.07	PASS
			1000~26500	-5.07	-48.41	≤-25.07	PASS
		2480	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-67.92	≤-26.1	PASS
			1000~26500	-6.10	-49.84	≤-26.1	PASS

Test Graphs

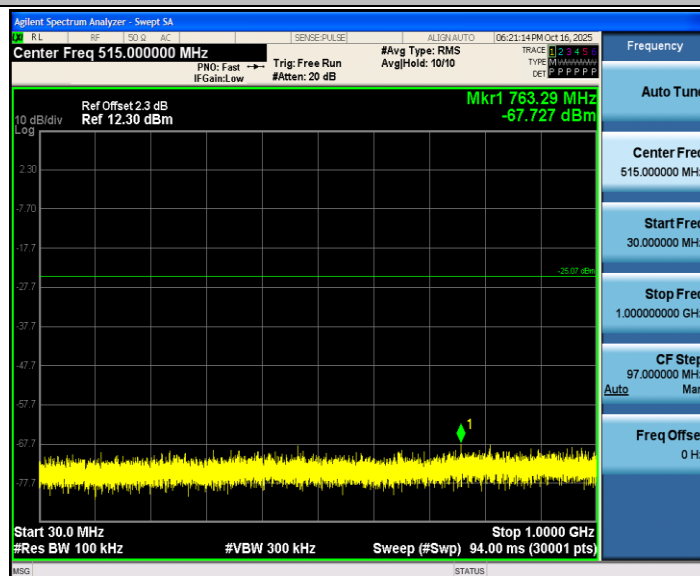




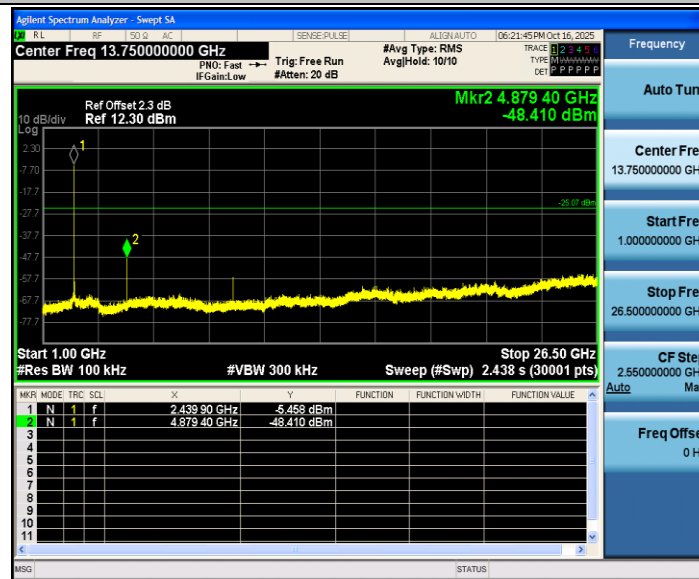
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



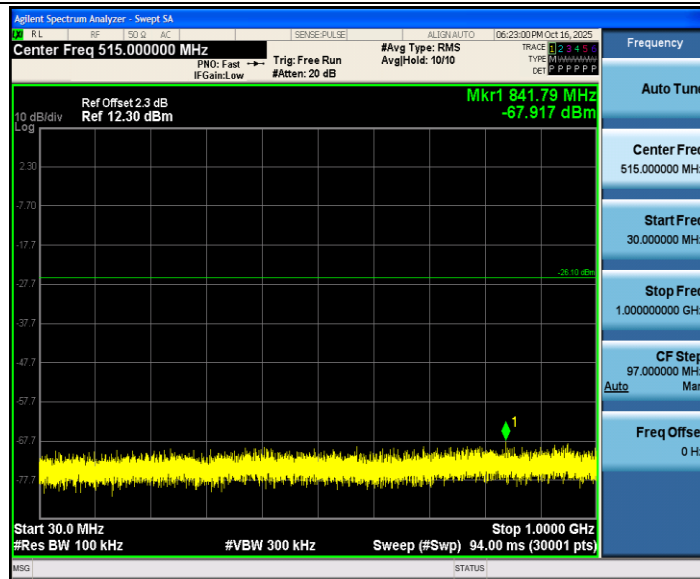
BLE_1M_Ant1_2440_1000~26500



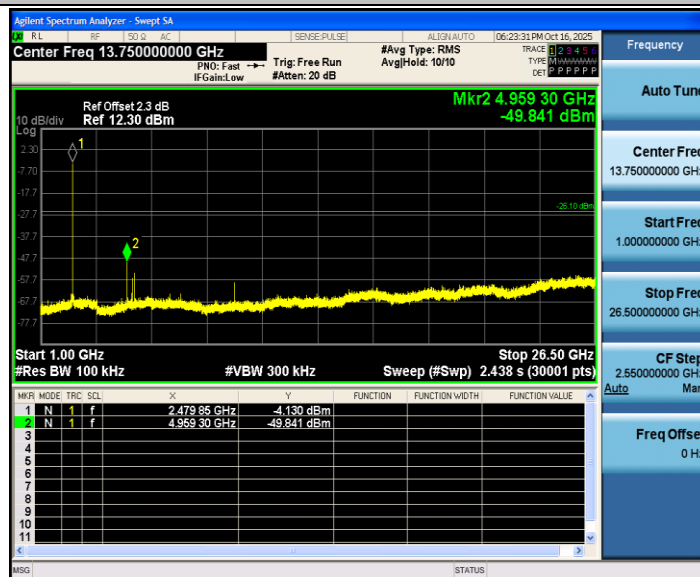
BLE_1M_Ant1_2480_0~Reference



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

