

Appendix RF Test Data for BLE

FCC ID : 2BQGL-WZY-P012

Company : Shenzhen Wuzhuangyuan Technology Co., LTD

EUT : Dance carpe

Model Number : WZY-P012

Report No. : CTA25090100301

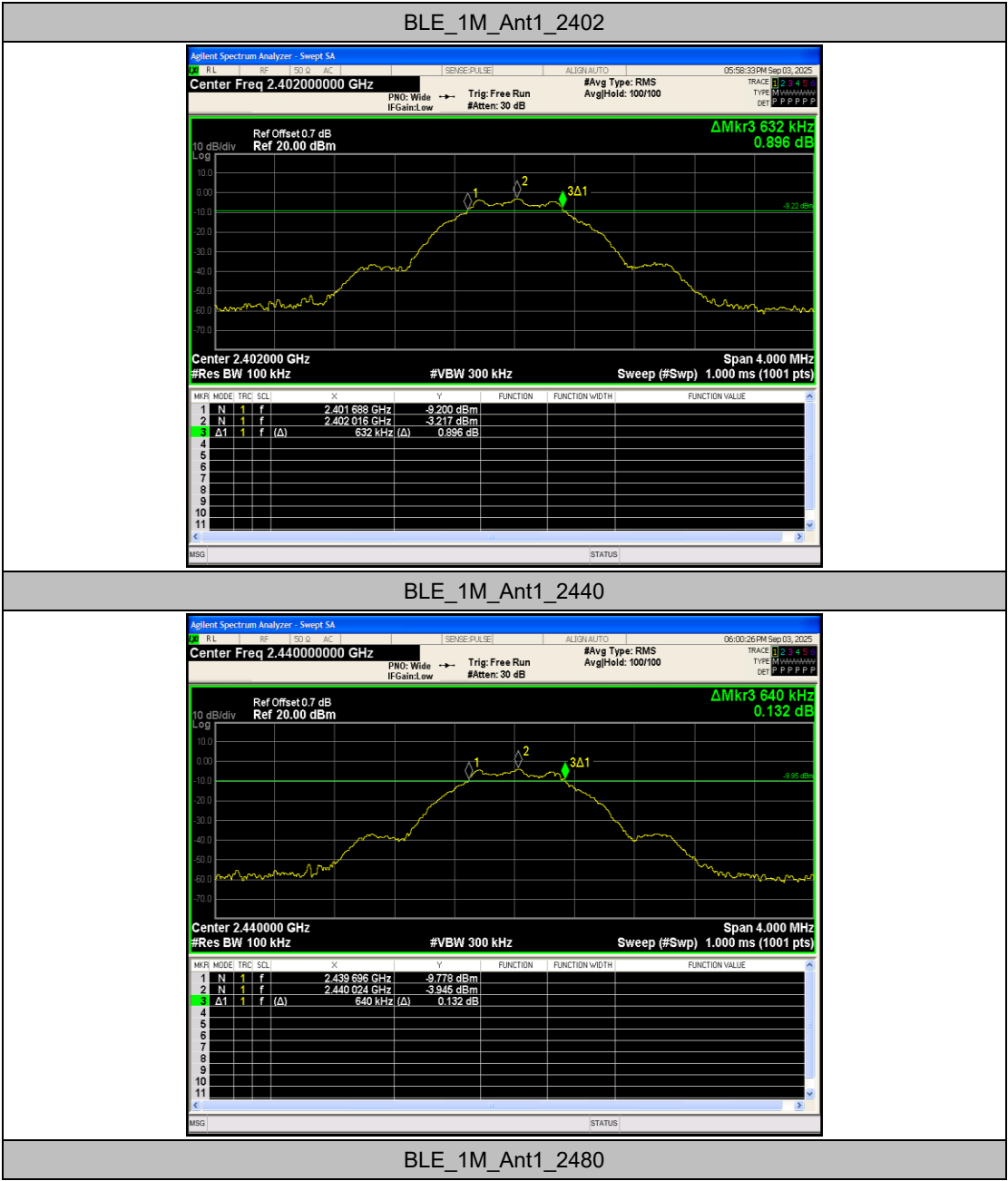
Reviewed By : Eric Wang

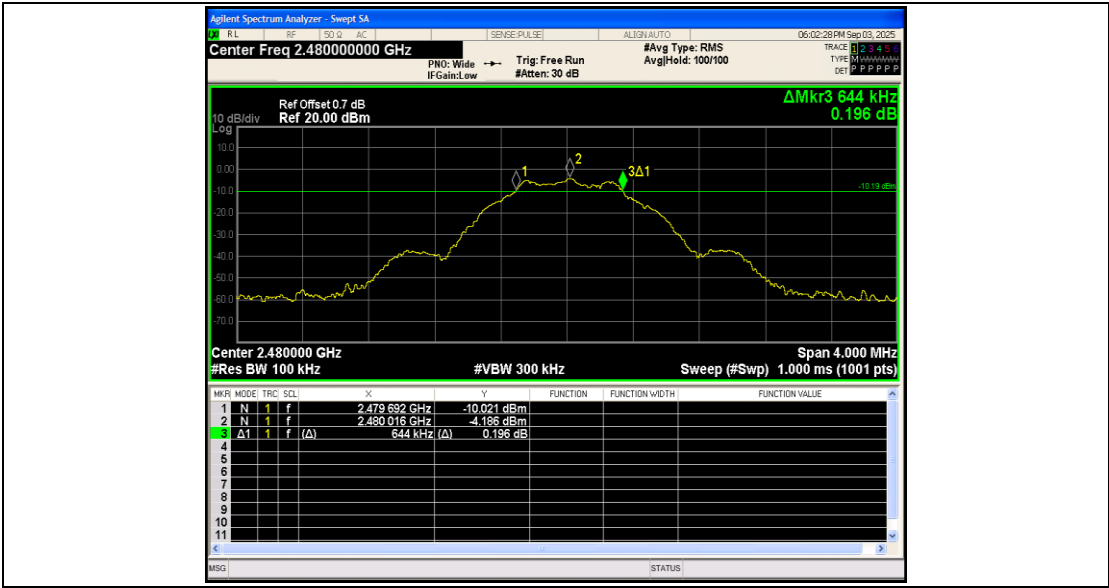
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.688	2402.320	0.5	PASS
		2440	0.640	2439.696	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



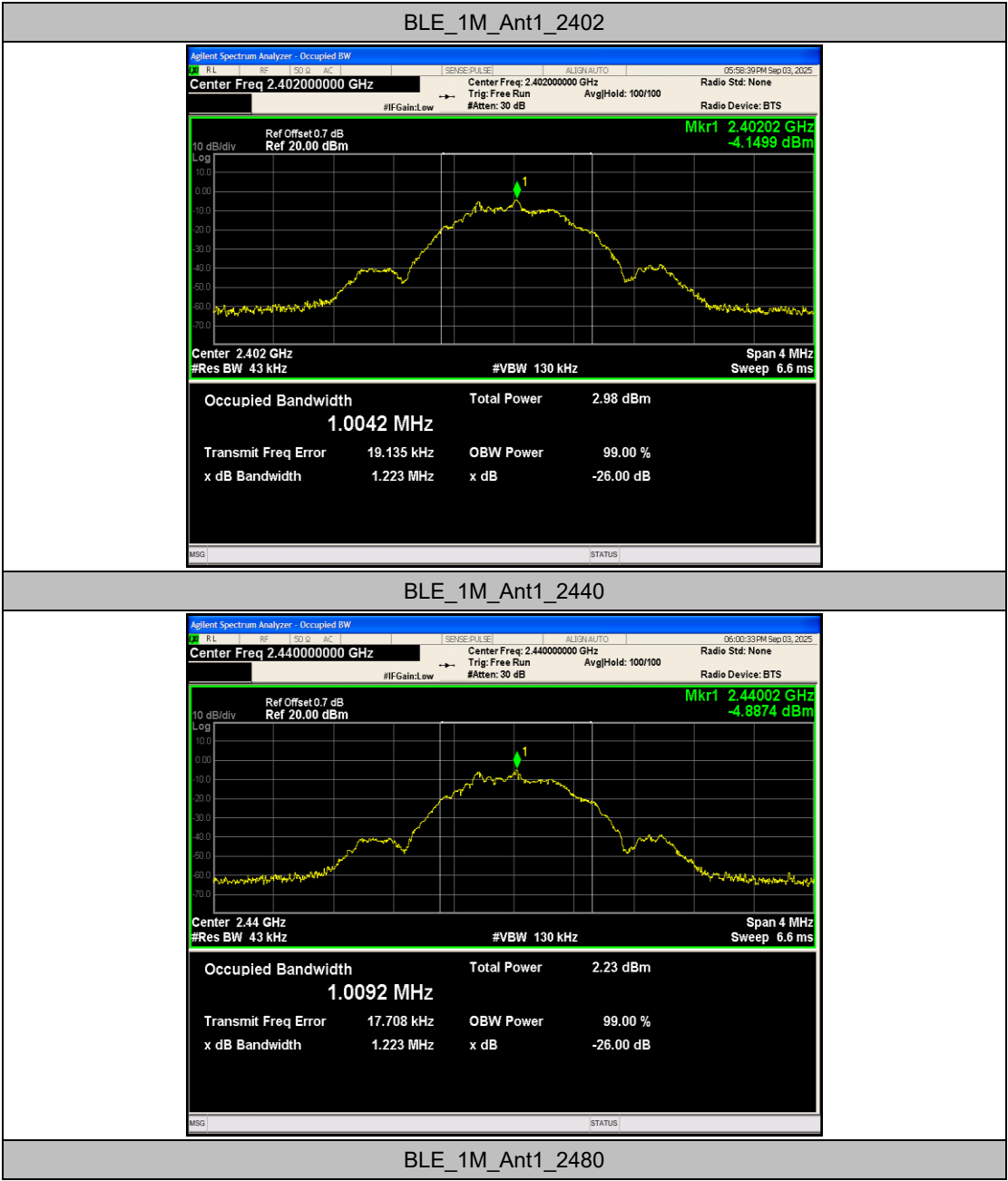


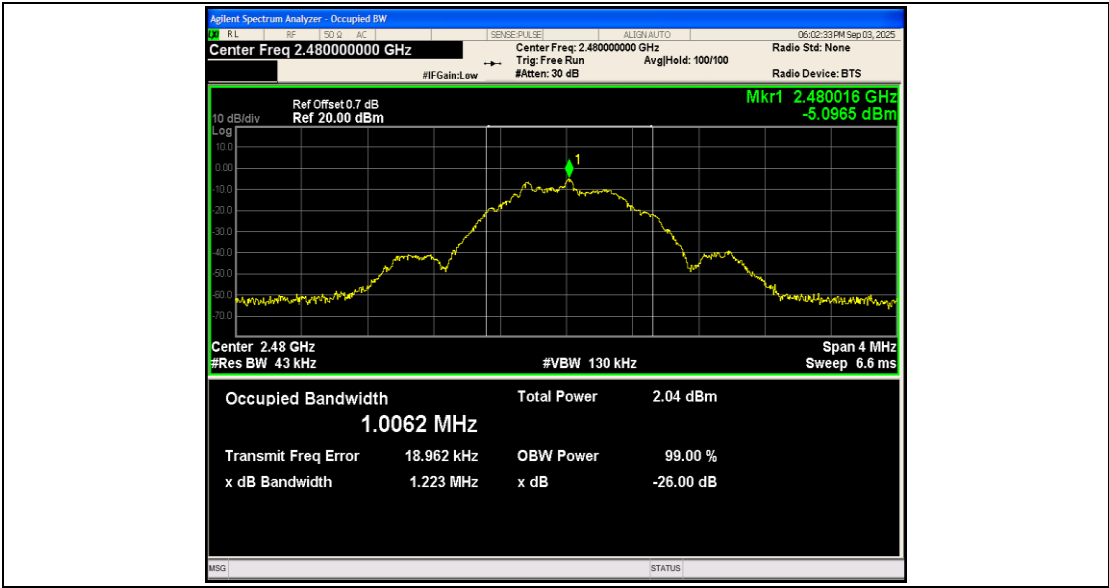
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0042	2401.5170	2402.5212	---	---
		2440	1.0092	2439.5131	2440.5223	---	---
		2480	1.0062	2479.5159	2480.5221	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

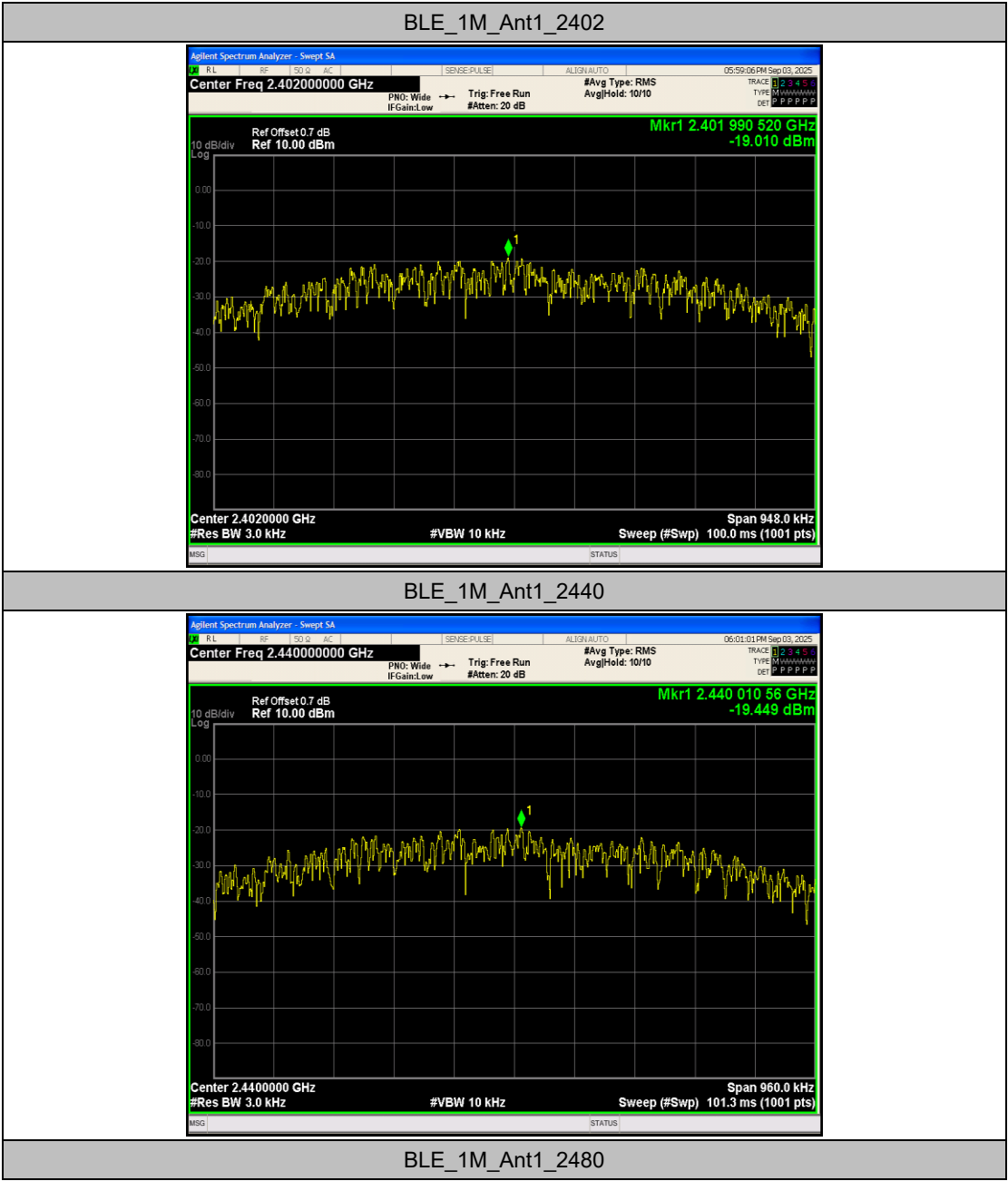
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.12	≤30	PASS
		2440	-3.78	≤30	PASS
		2480	-4.08	≤30	PASS

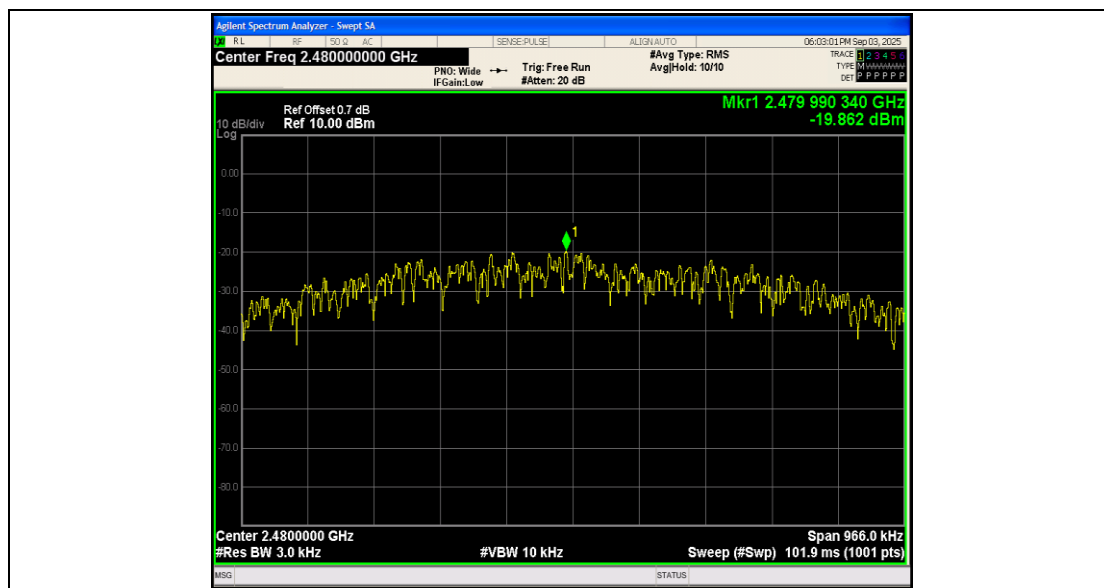
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.01	≤8.00	PASS
		2440	-19.45	≤8.00	PASS
		2480	-19.86	≤8.00	PASS

Test Graphs



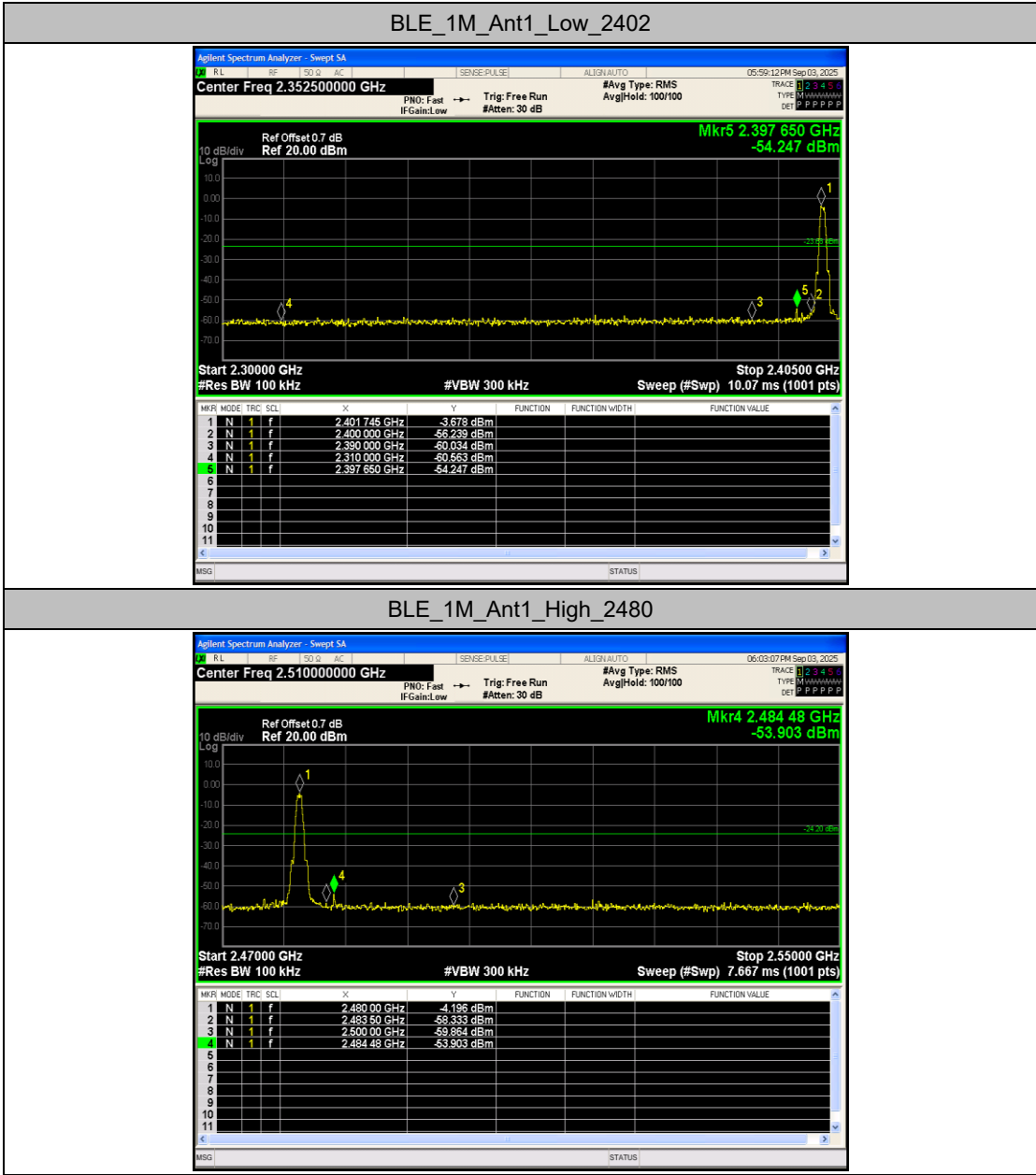


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.68	-54.25	≤-23.68	PASS
		High	2480	-4.20	-53.9	≤-24.2	PASS

Test Graphs

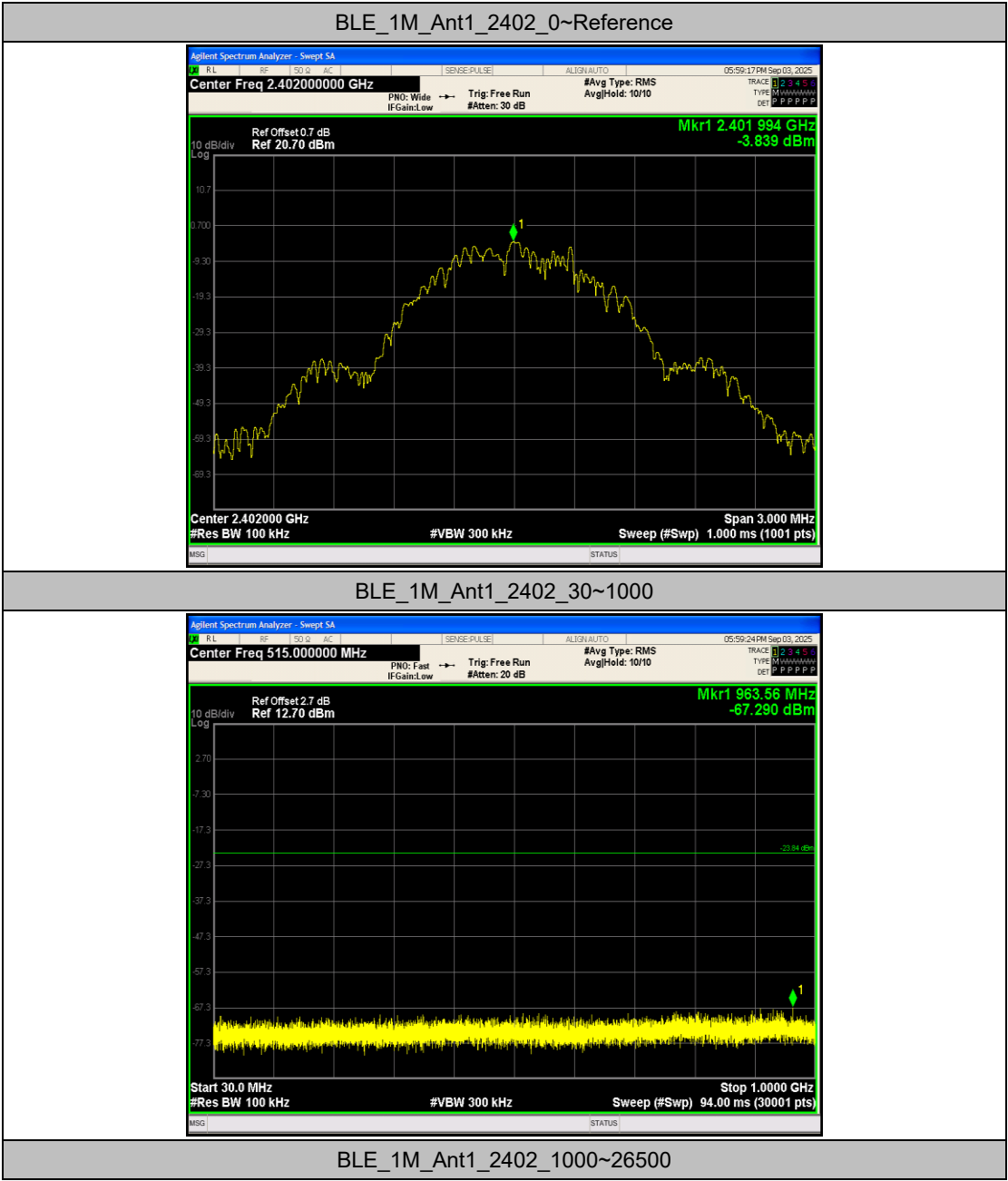


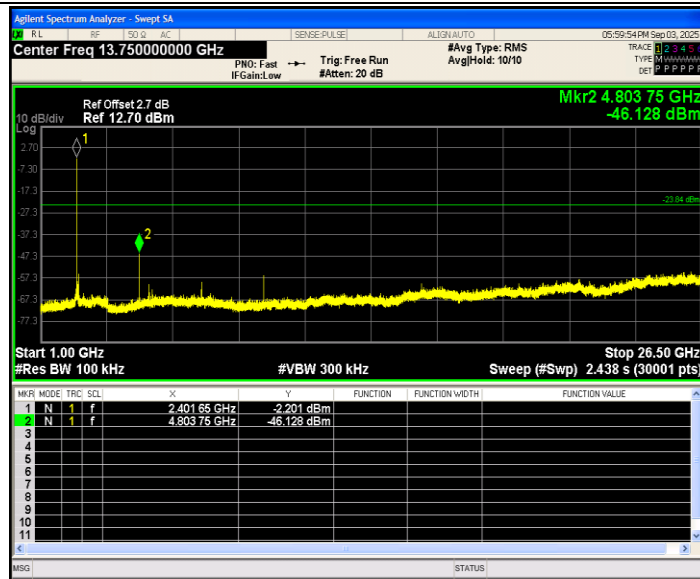
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-67.29	≤-23.84	PASS
			1000~26500	-3.84	-46.13	≤-23.84	PASS
		2440	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-67.59	≤-25.16	PASS
			1000~26500	-5.16	-46.7	≤-25.16	PASS
		2480	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-67.34	≤-24.7	PASS
			1000~26500	-4.70	-47.71	≤-24.7	PASS

Test Graphs

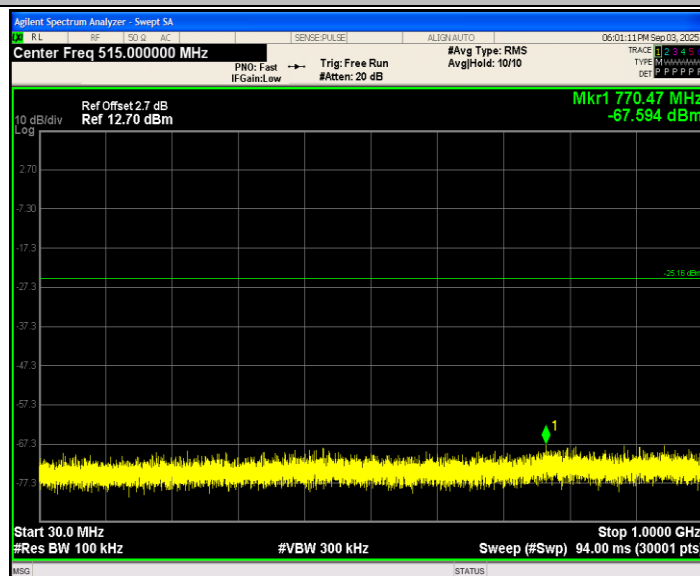




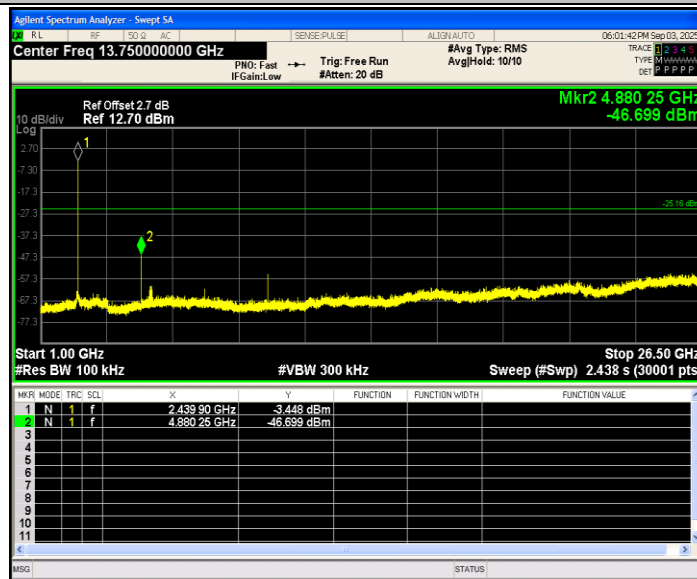
BLE_1M_Ant1_2440_0~Reference



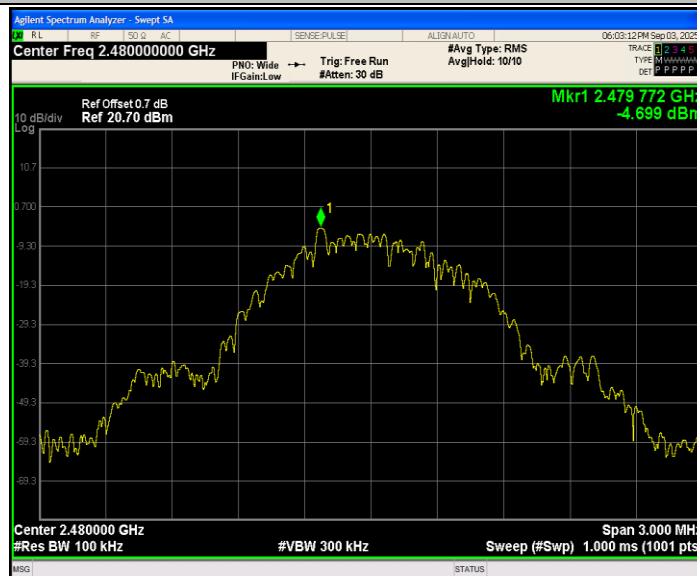
BLE_1M_Ant1_2440_30~1000



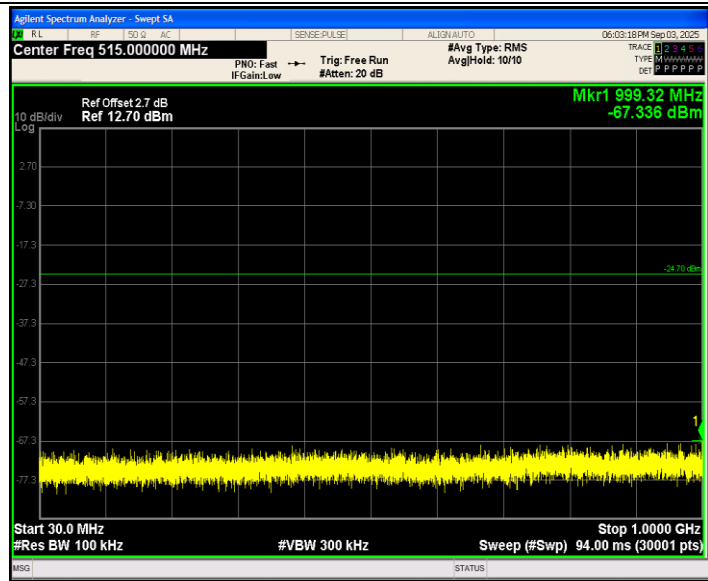
BLE_1M_Ant1_2440_1000~26500



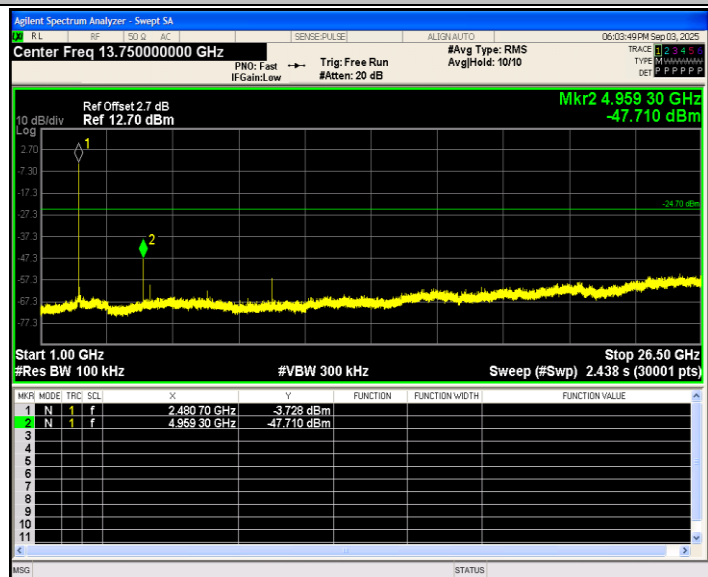
BLE_1M_Ant1_2480_0~Reference



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



