

Appendix RF Test Data for BLE

FCC ID : 2BO7G-S80

Company : Shenzhen Yiwei Technology Co., LTD

EUT : Wireless Earphone

Model Number : S80

Report No. : CTA25070701401

Reviewed By : Eric Wang

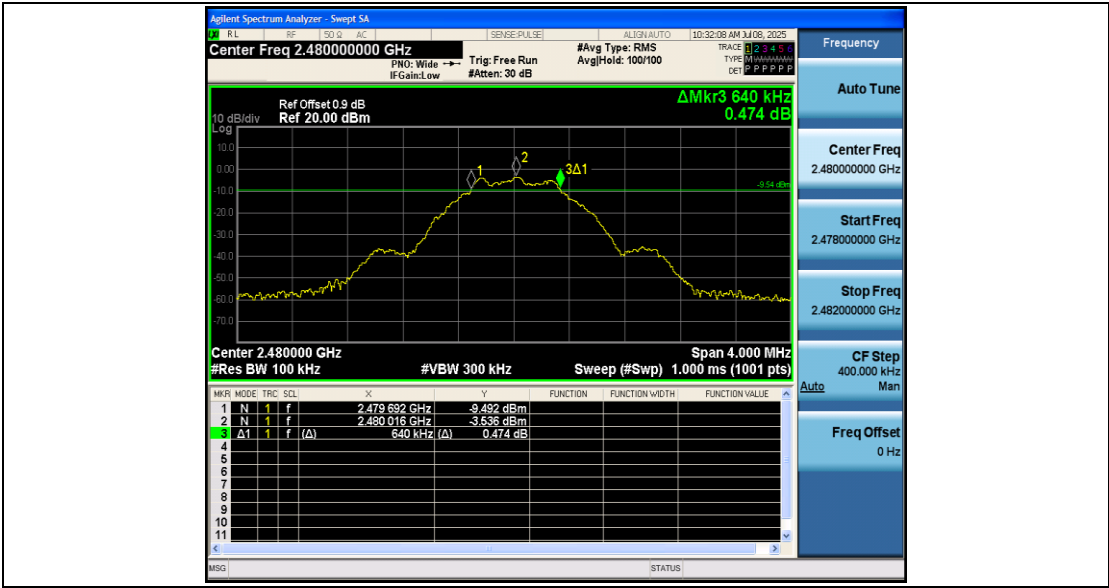
Appendix A: DTS Bandwidth

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	0.652	2439.684	2440.336	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs



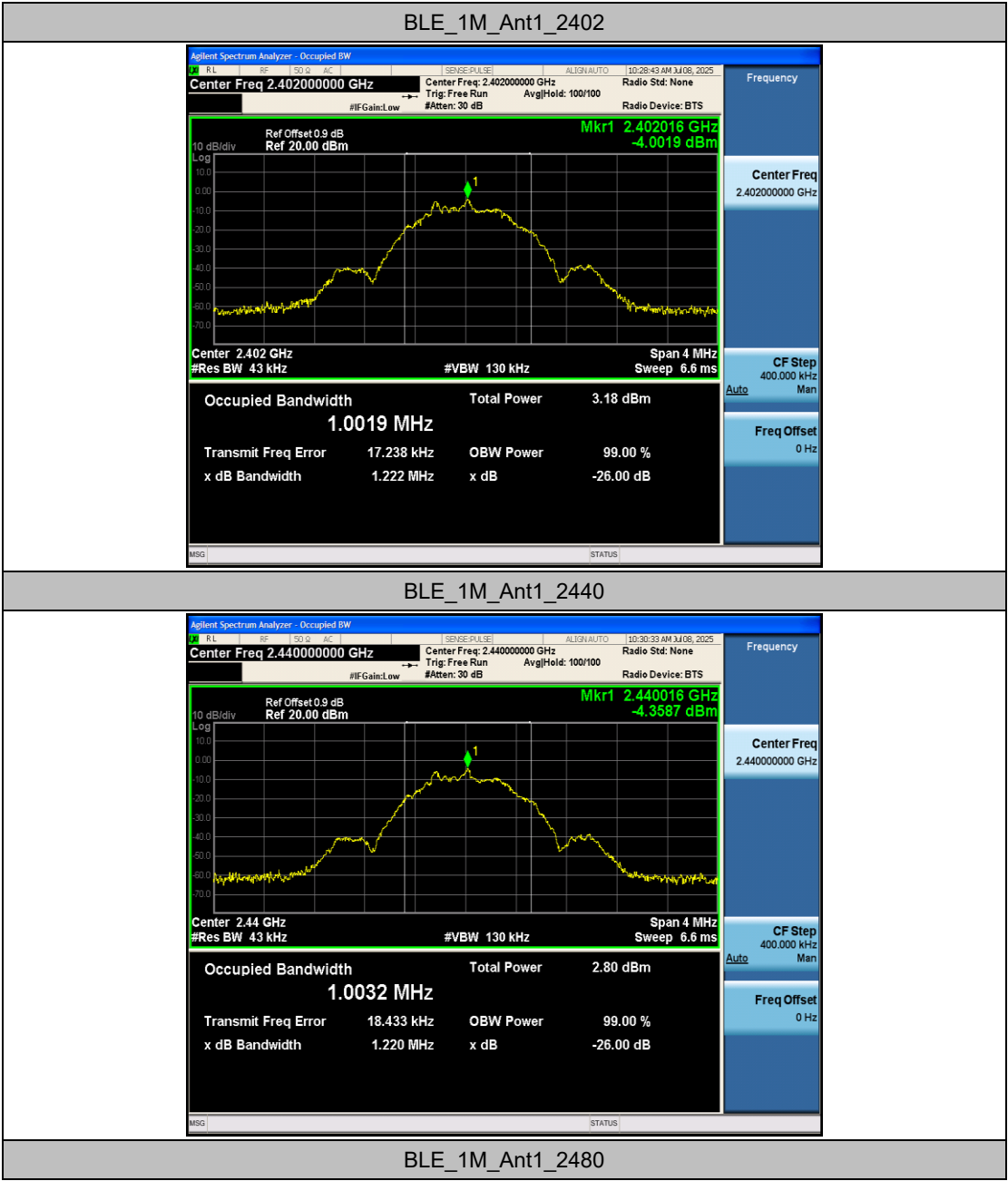


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0019	2401.5163	2402.5182	---	---
		2440	1.0032	2439.5168	2440.5200	---	---
		2480	1.0033	2479.5172	2480.5205	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

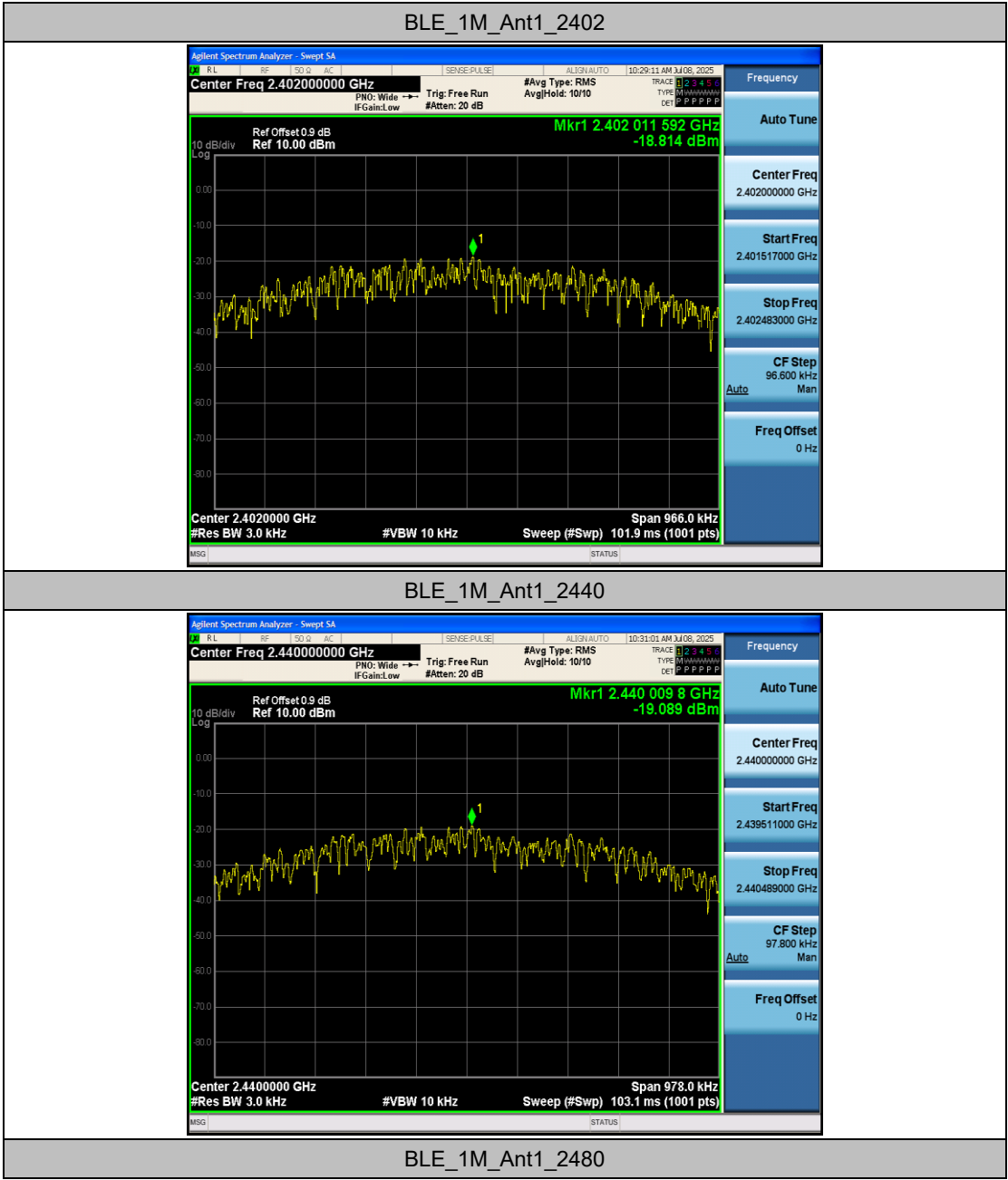
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.98	≤30	PASS
		2440	-3.32	≤30	PASS
		2480	-3.38	≤30	PASS

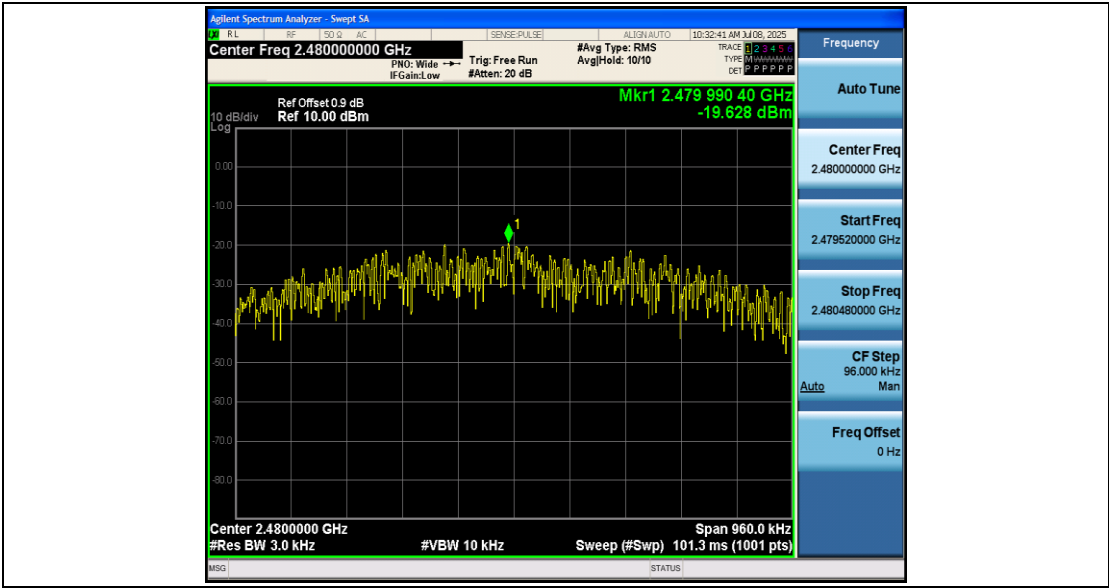
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.81	≤8.00	PASS
		2440	-19.09	≤8.00	PASS
		2480	-19.63	≤8.00	PASS

Test Graphs





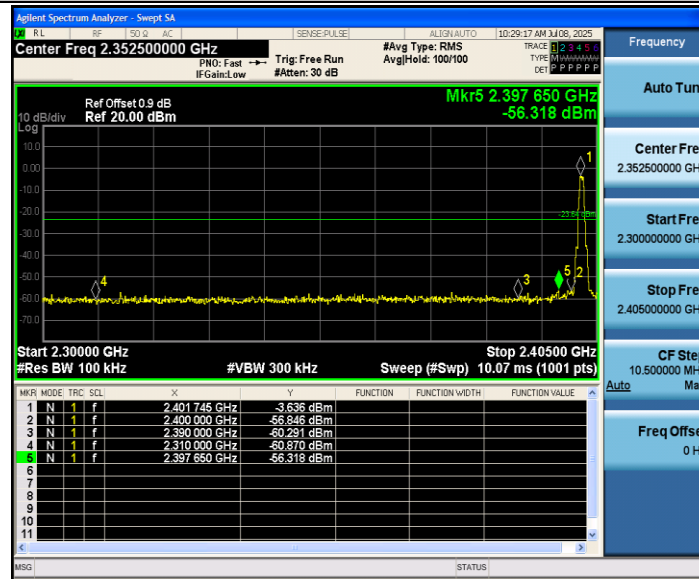
Appendix E: Band edge measurements

Test Result

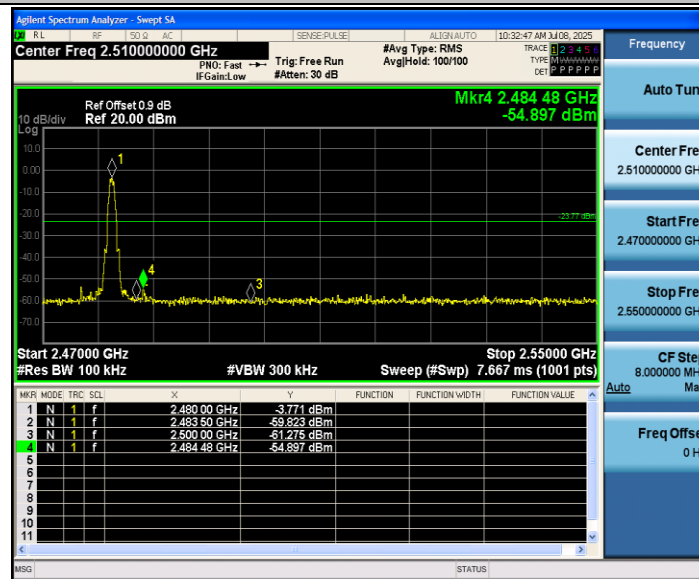
TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.64	-56.32	≤-23.64	PASS
		High	2480	-3.77	-54.9	≤-23.77	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

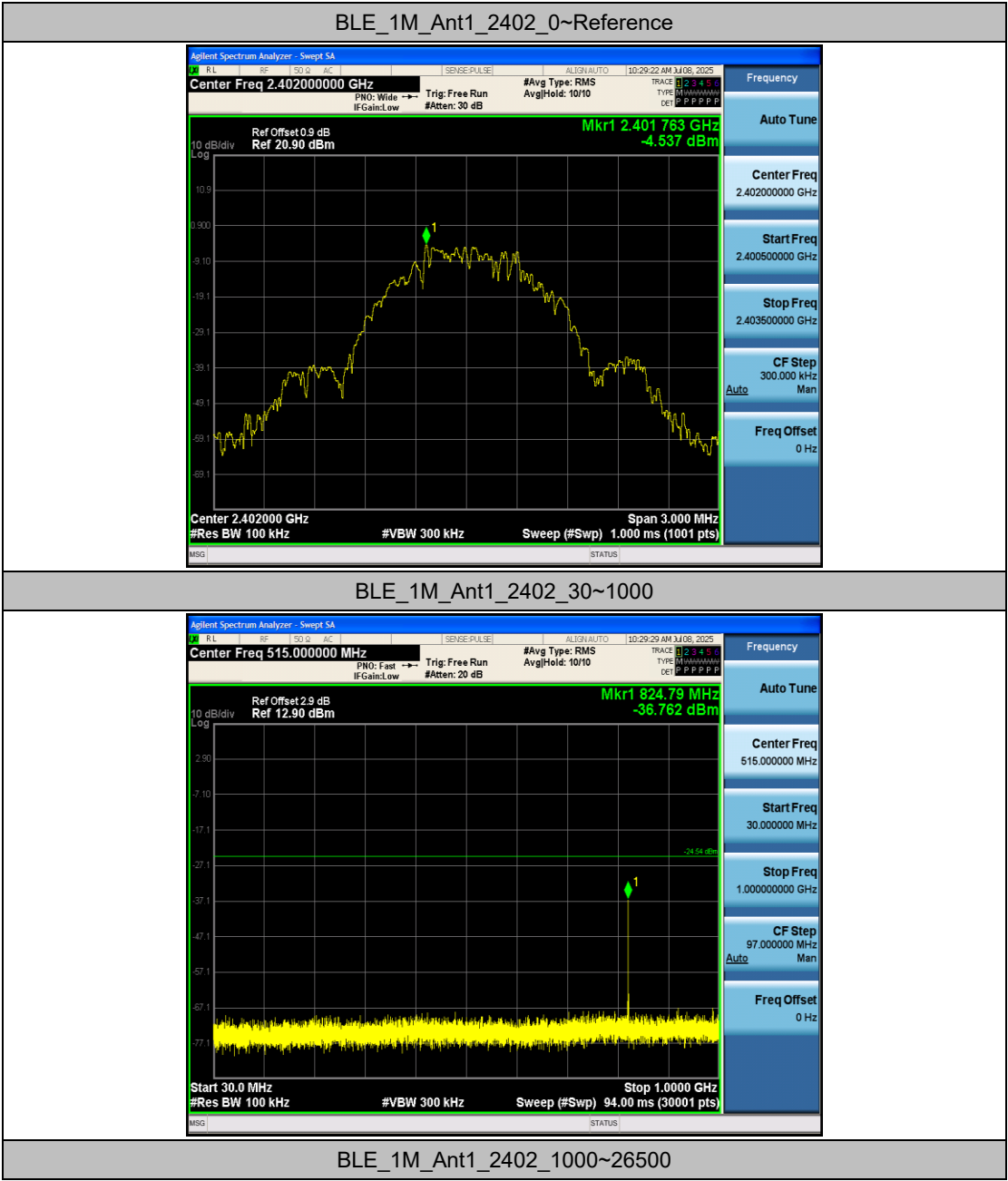


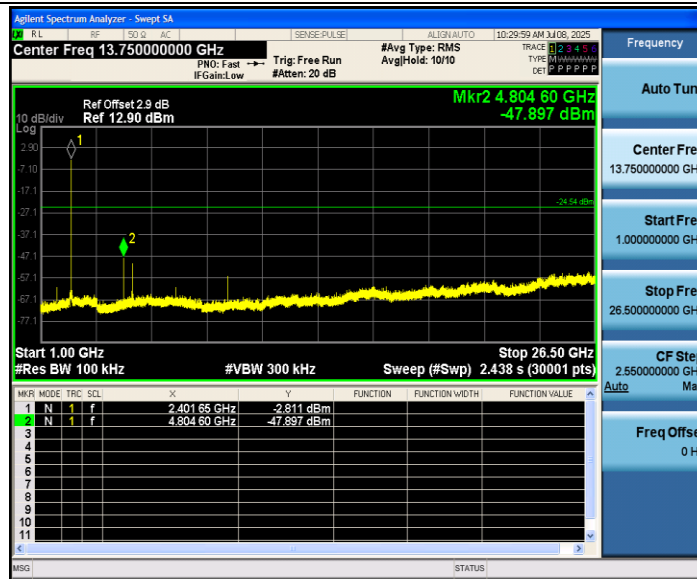
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-36.76	≤-24.54	PASS
			1000~26500	-4.54	-47.9	≤-24.54	PASS
		2440	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-67.48	≤-23.57	PASS
			1000~26500	-3.57	-46.22	≤-23.57	PASS
		2480	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-67.46	≤-24.44	PASS
			1000~26500	-4.44	-47.73	≤-24.44	PASS

Test Graphs

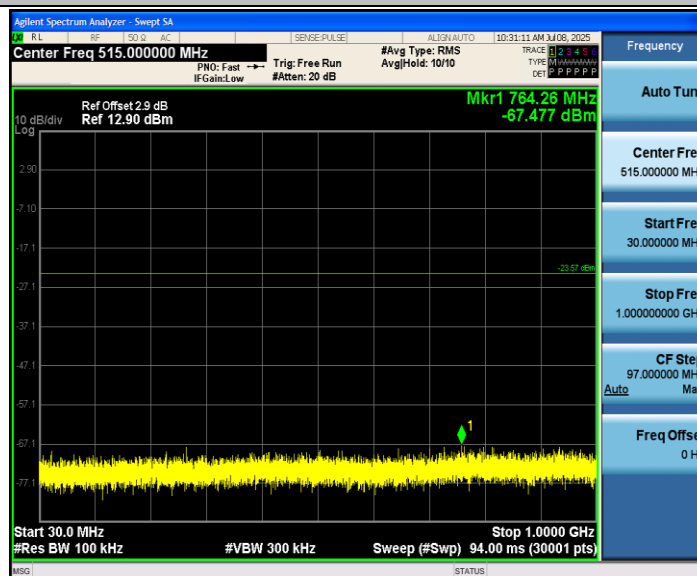




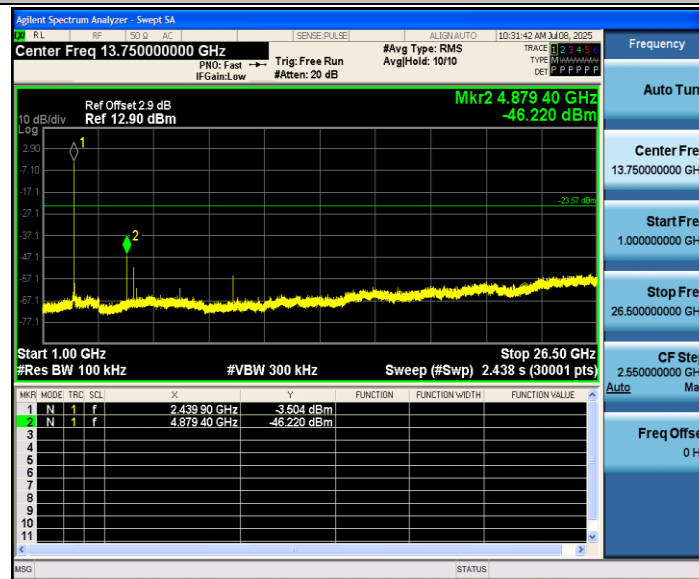
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



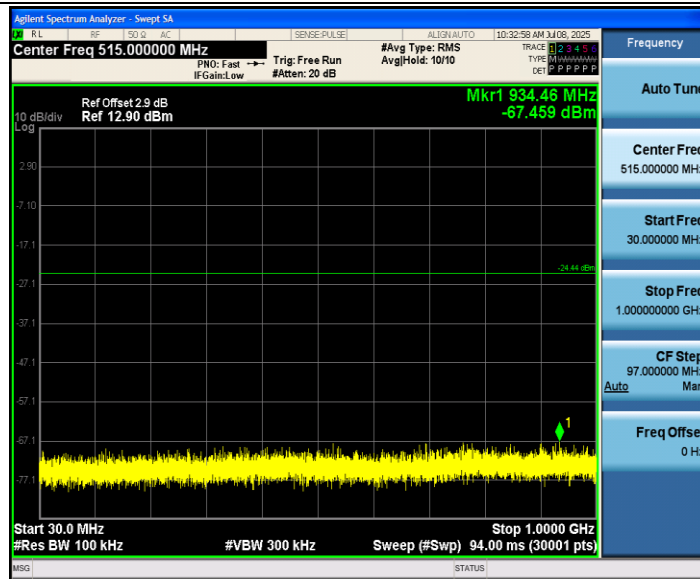
BLE_1M_Ant1_2440_1000~26500



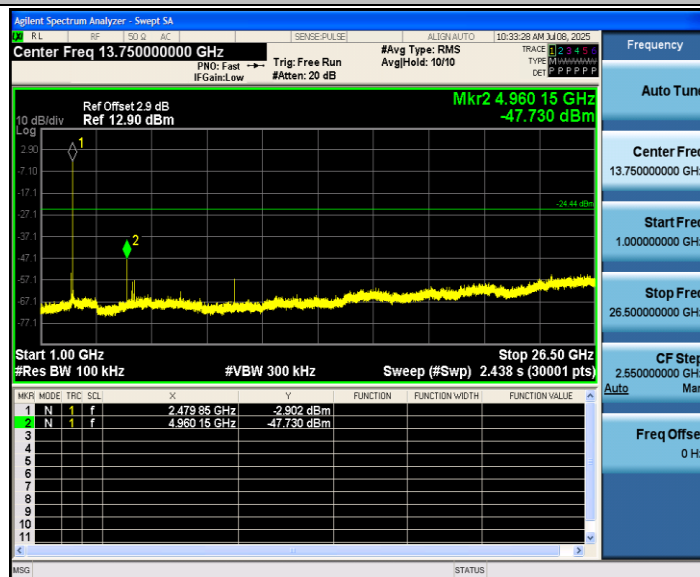
BLE_1M_Ant1_2480_0~Reference



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

