

FCC Appendix RF Test Data

FCC ID : 2AE6G-GPK-200PK

Company : Innovative Concepts and Design LLC

EUT : Bluetooth Speaker

Model Number : GPK-200PK

Report No. : CTA25070300201

Reviewed By : Eric Wang

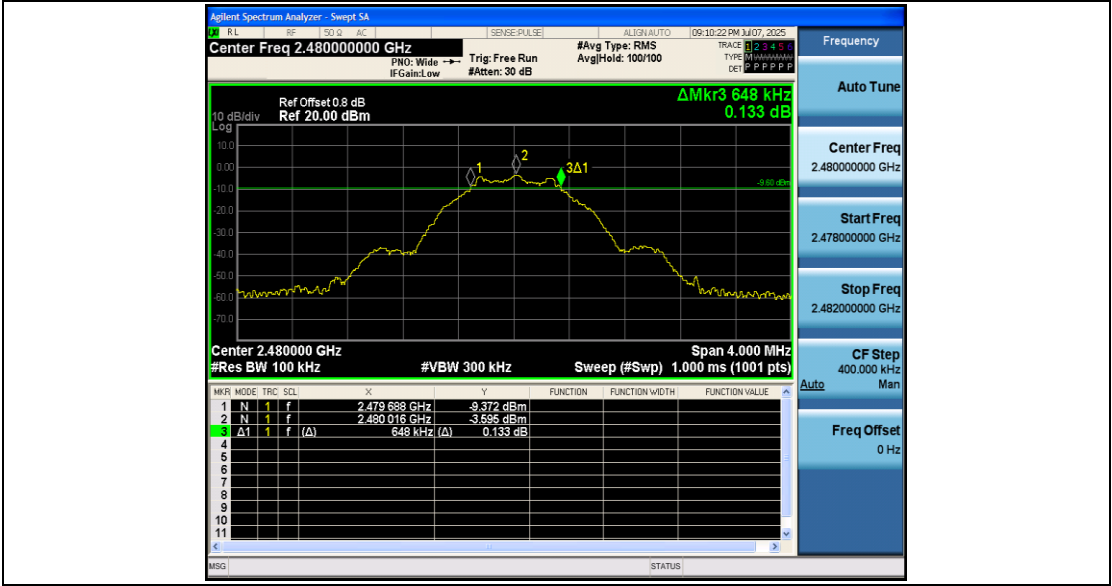
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.692	2402.332	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs



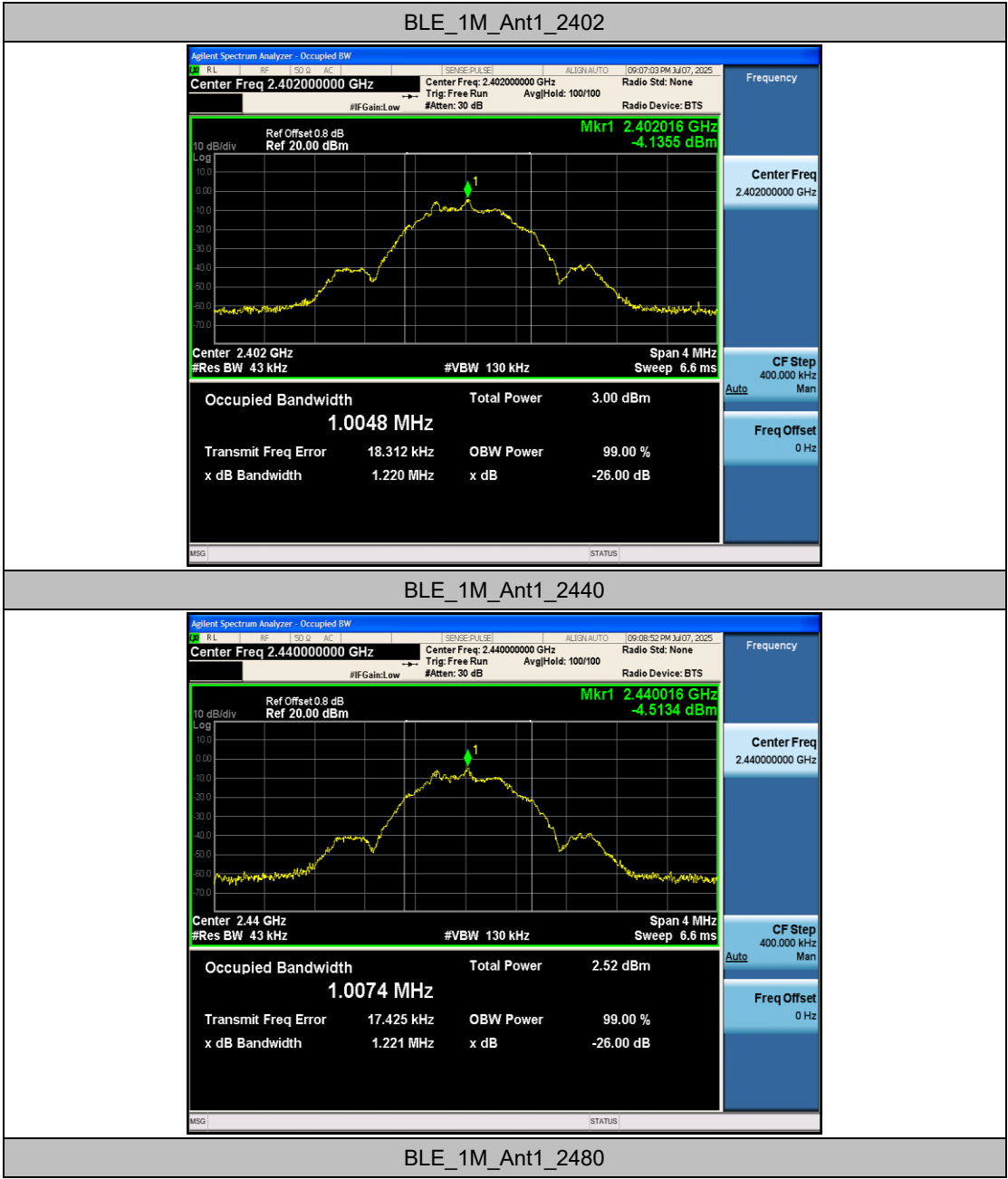


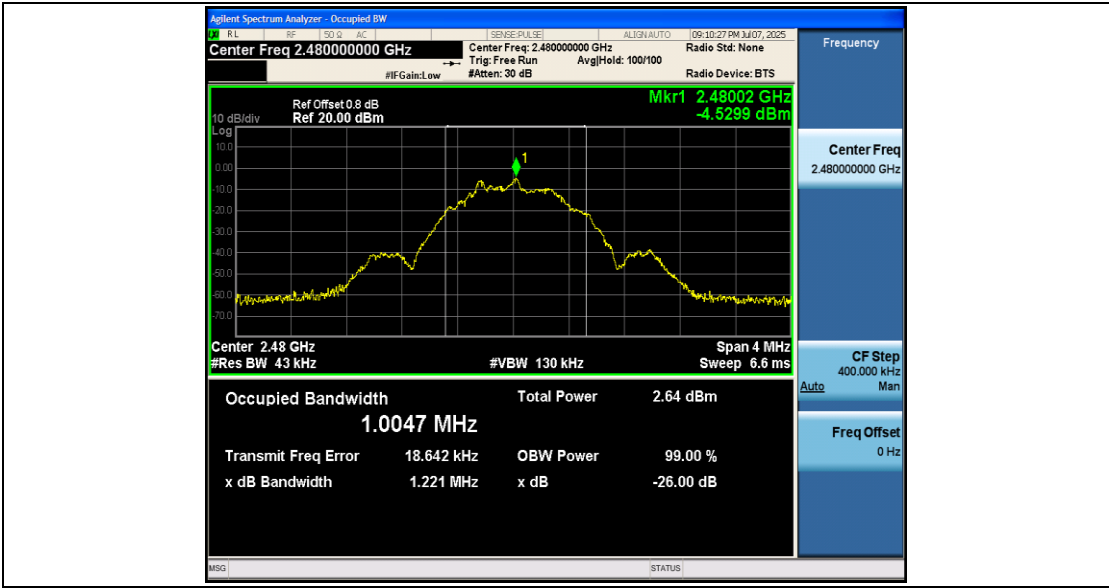
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0048	2401.5159	2402.5207	---	---
		2440	1.0074	2439.5137	2440.5211	---	---
		2480	1.0047	2479.5163	2480.5210	---	---

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	-3.14	≤30	PASS
		2440	-3.44	≤30	PASS
		2480	-3.49	≤30	PASS

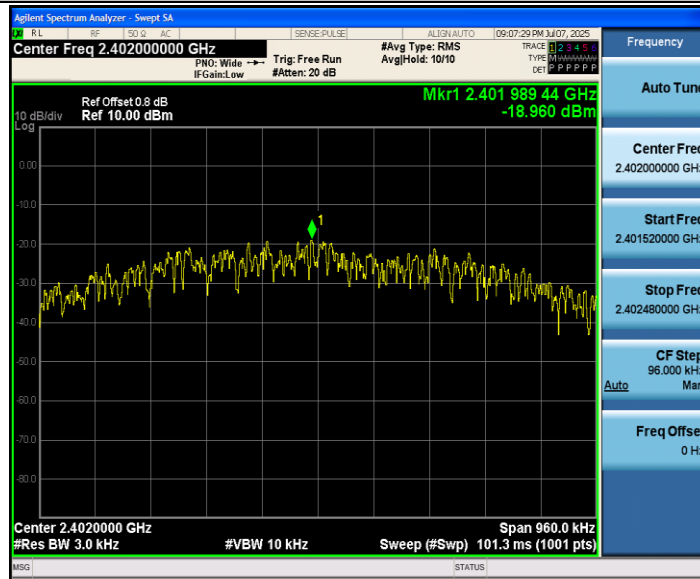
Appendix D: Maximum power spectral density

Test Result

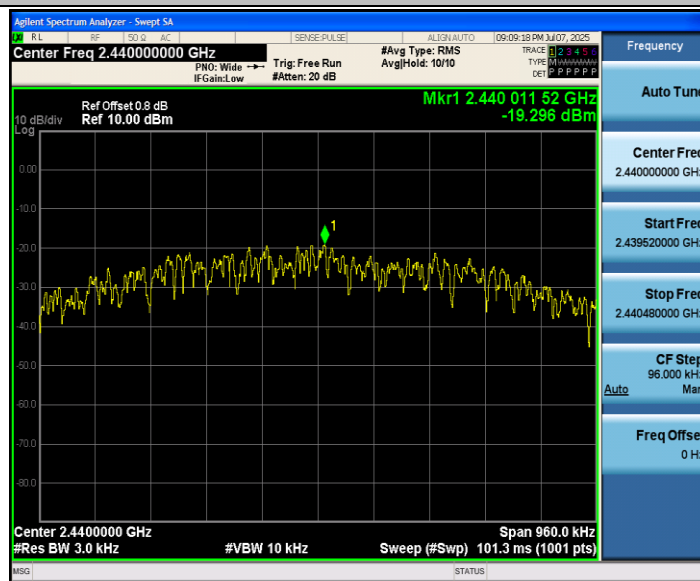
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.96	≤8.00	PASS
		2440	-19.30	≤8.00	PASS
		2480	-19.30	≤8.00	PASS

Test Graphs

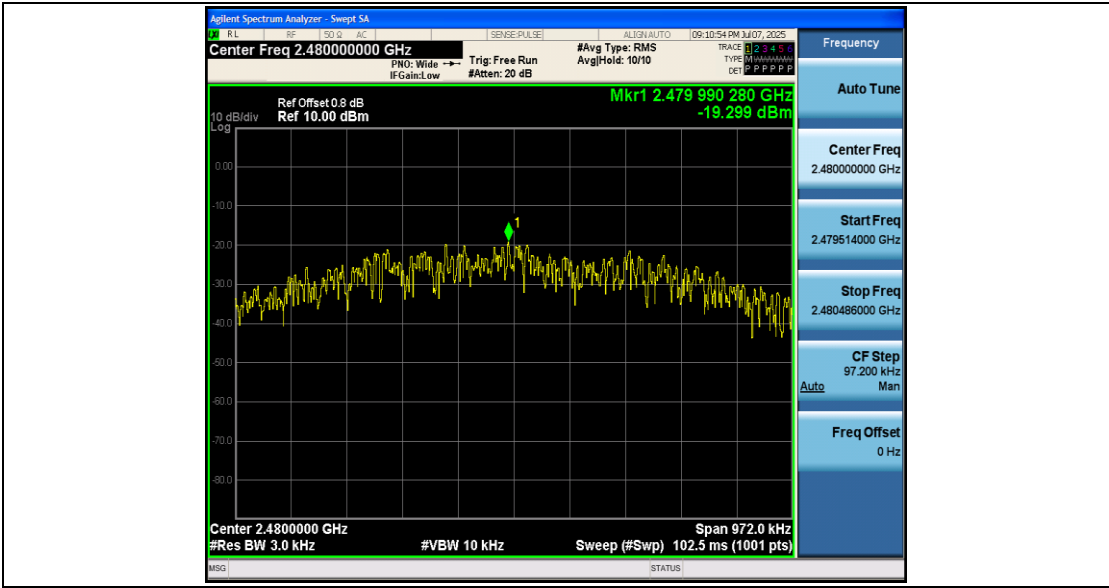
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

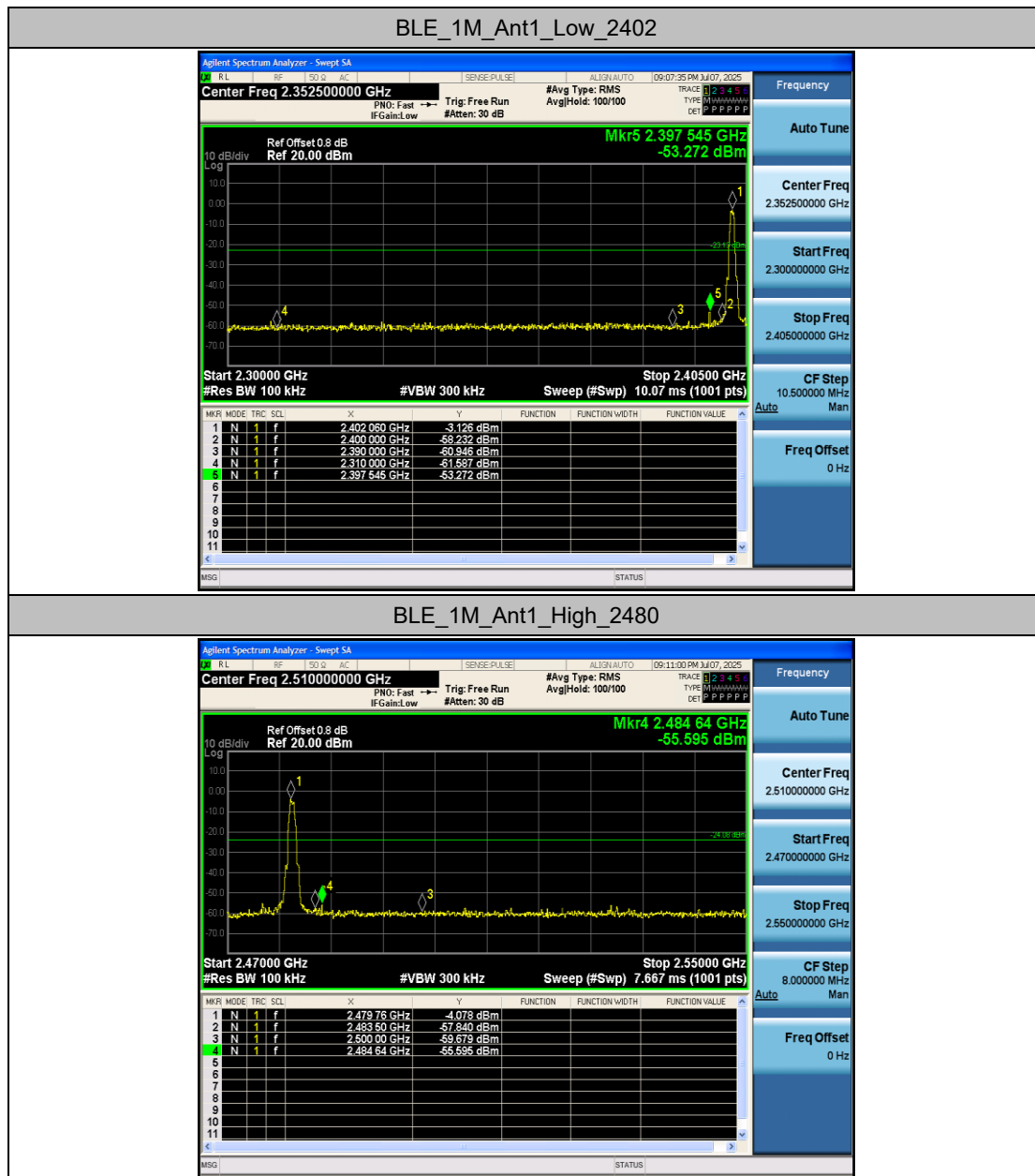


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.13	-53.27	≤-23.13	PASS
		High	2480	-4.08	-55.6	≤-24.08	PASS

Test Graphs

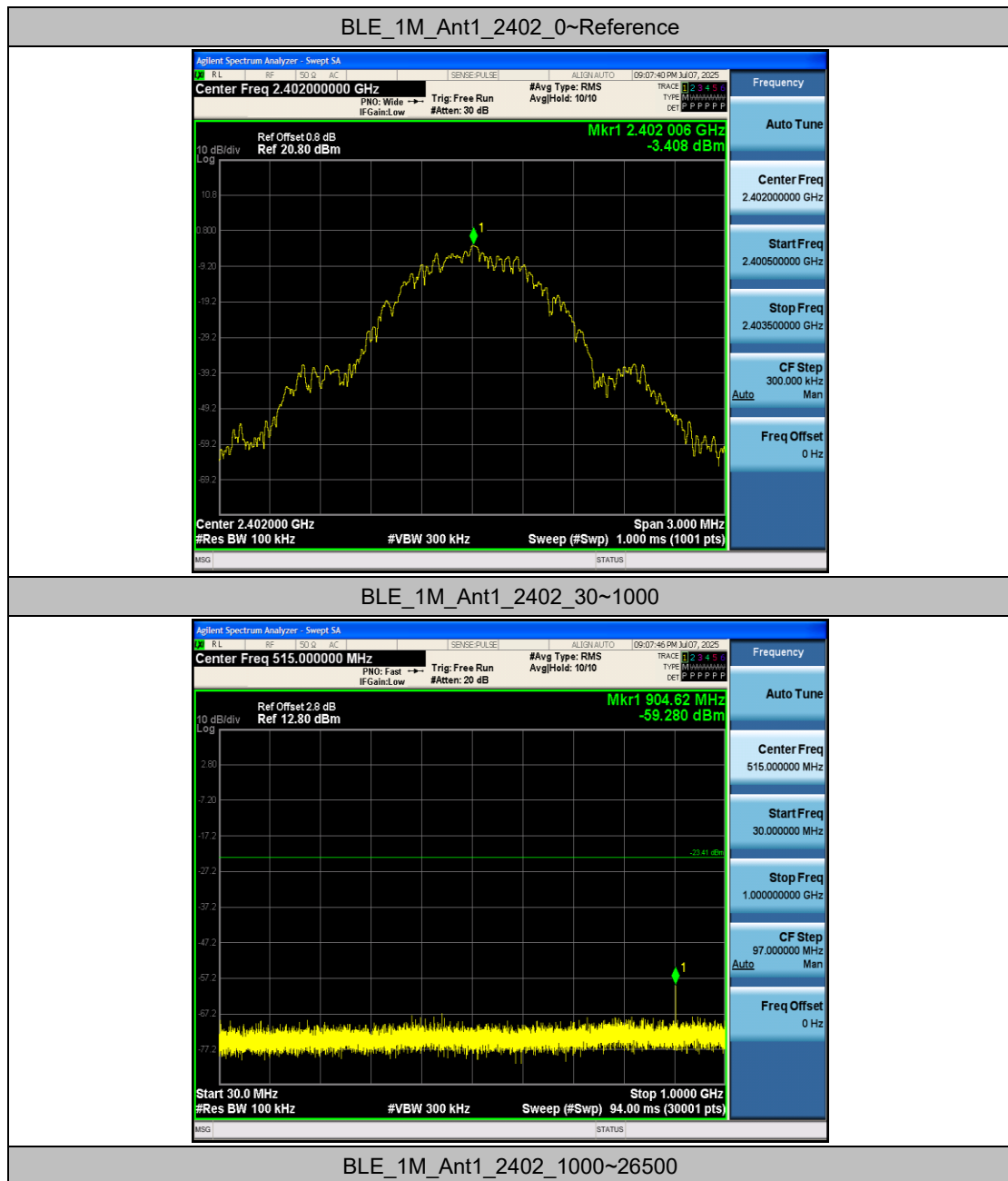


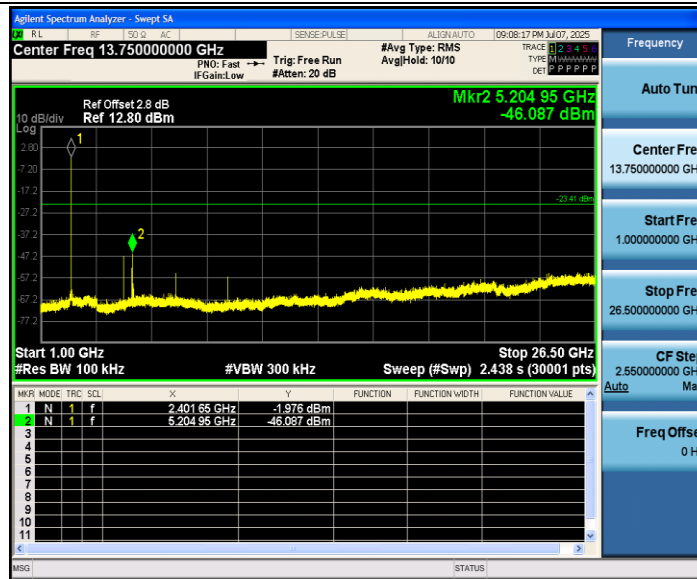
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-59.28	≤-23.41	PASS
			1000~26500	-3.41	-46.09	≤-23.41	PASS
		2440	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.48	≤-24.45	PASS
			1000~26500	-4.45	-45.43	≤-24.45	PASS
		2480	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-67.1	≤-24.12	PASS
			1000~26500	-4.12	-49.15	≤-24.12	PASS

Test Graphs

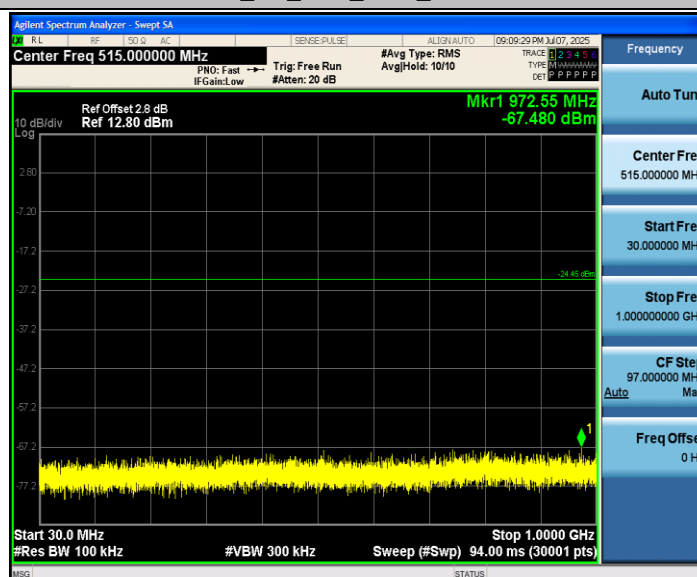




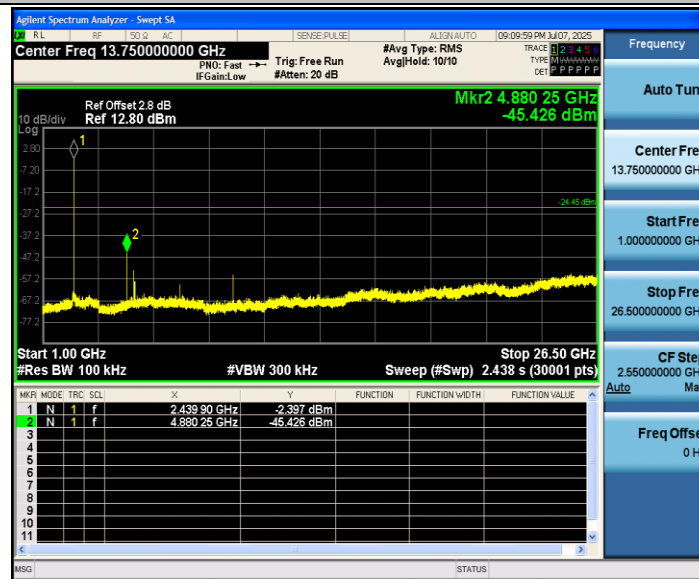
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



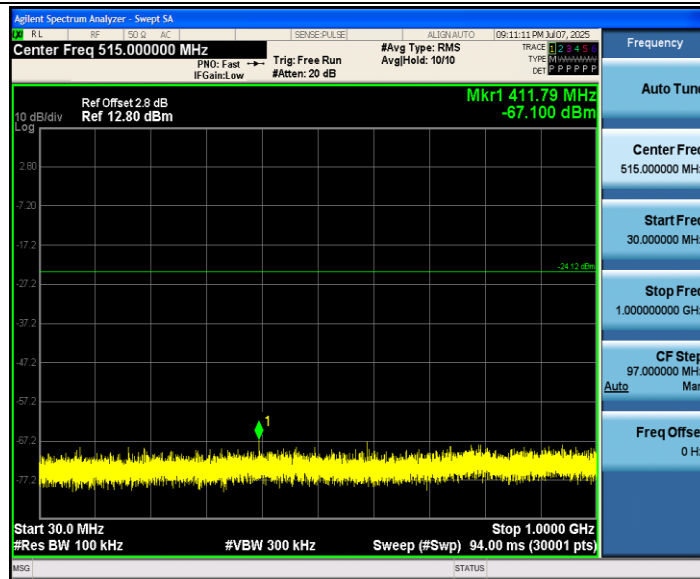
BLE_1M_Ant1_2440_1000~26500



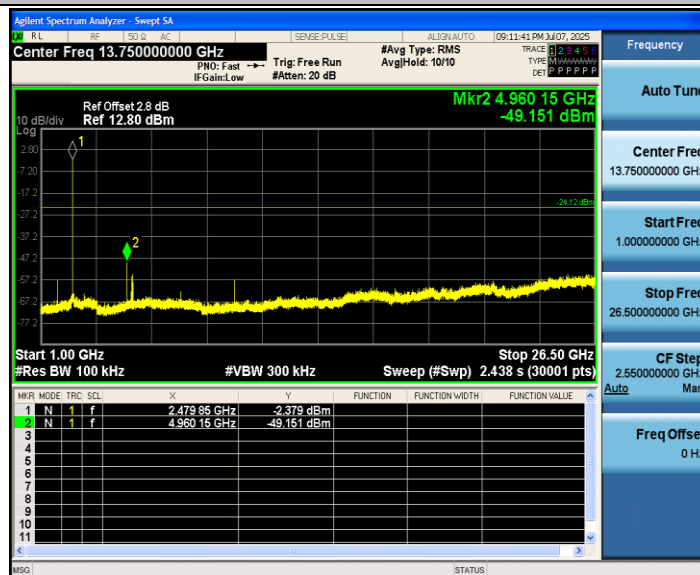
BLE_1M_Ant1_2480_0~Reference



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

