

FCC Appendix RF Test Data

FCC ID : 2BLG9-CP-FC103-KA

Company : Nework LLC

EUT : FreeChat 103

Model Number : CP-FC103-KA

Report No. : CTA25081401501

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	0.624	2401.700	2402.324	0.5	PASS
		2440	0.636	2439.700	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



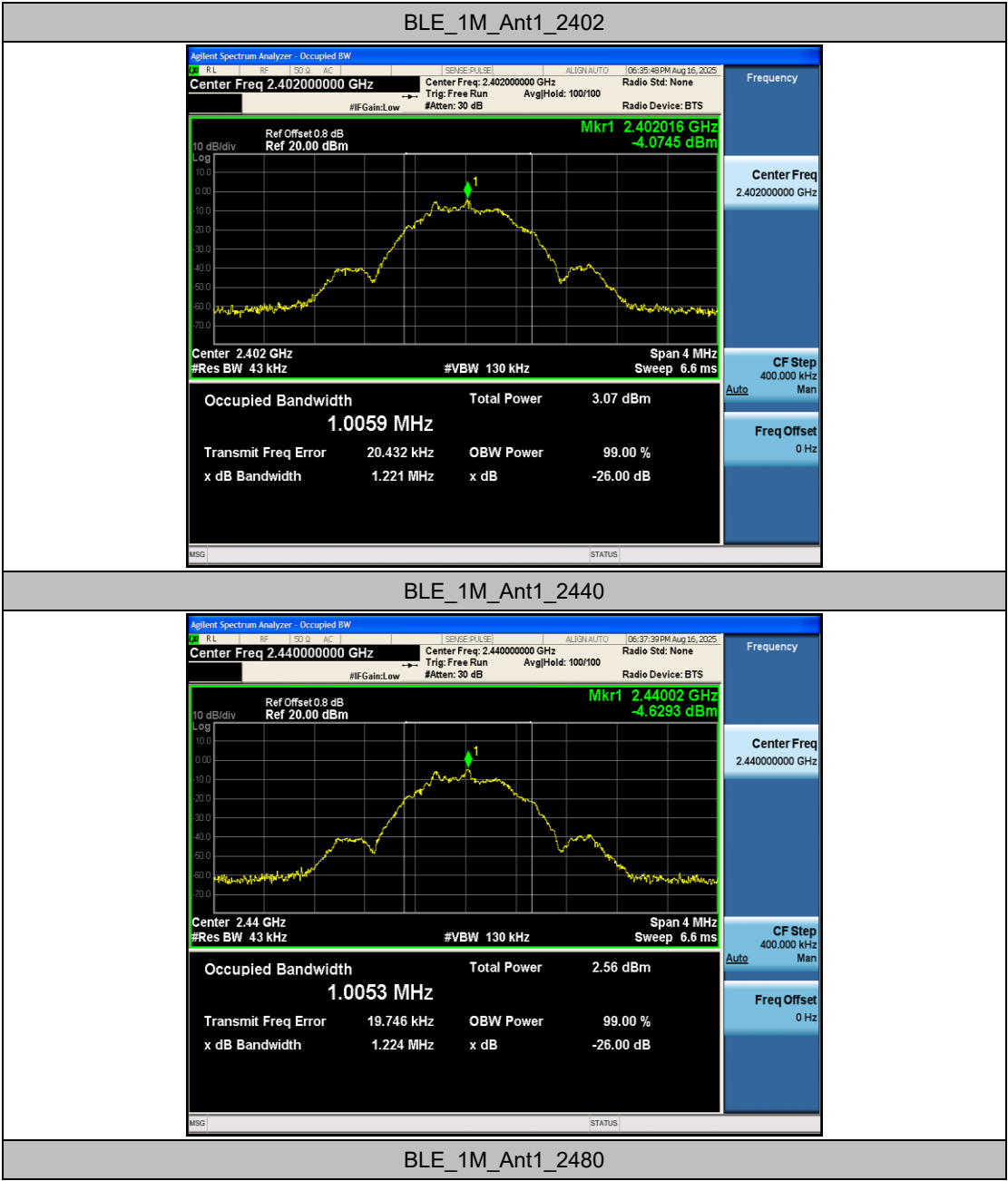


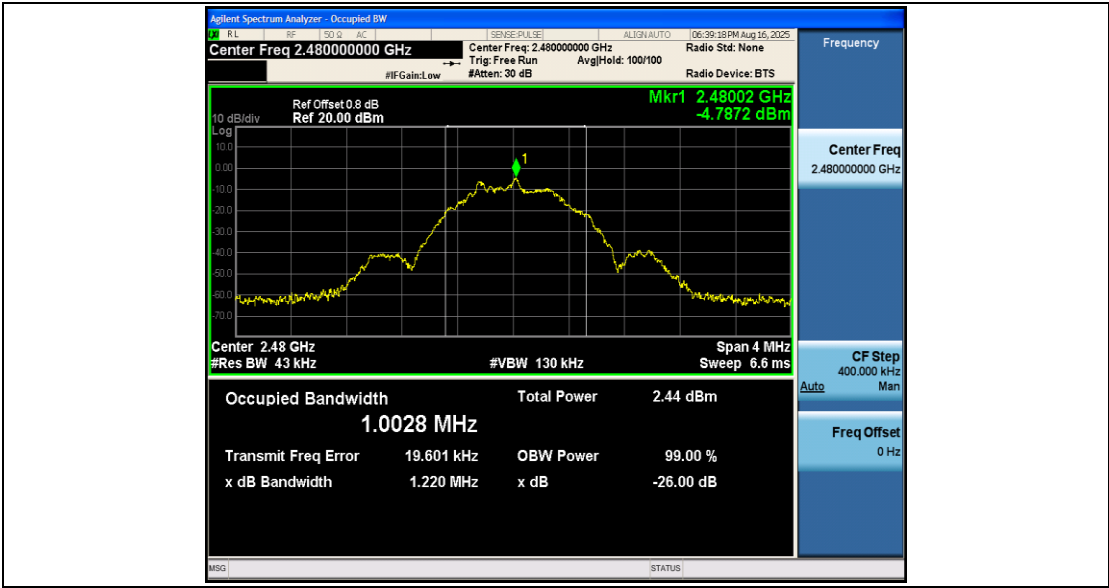
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0059	2401.5175	2402.5234	---	---
		2440	1.0053	2439.5171	2440.5224	---	---
		2480	1.0028	2479.5182	2480.5210	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

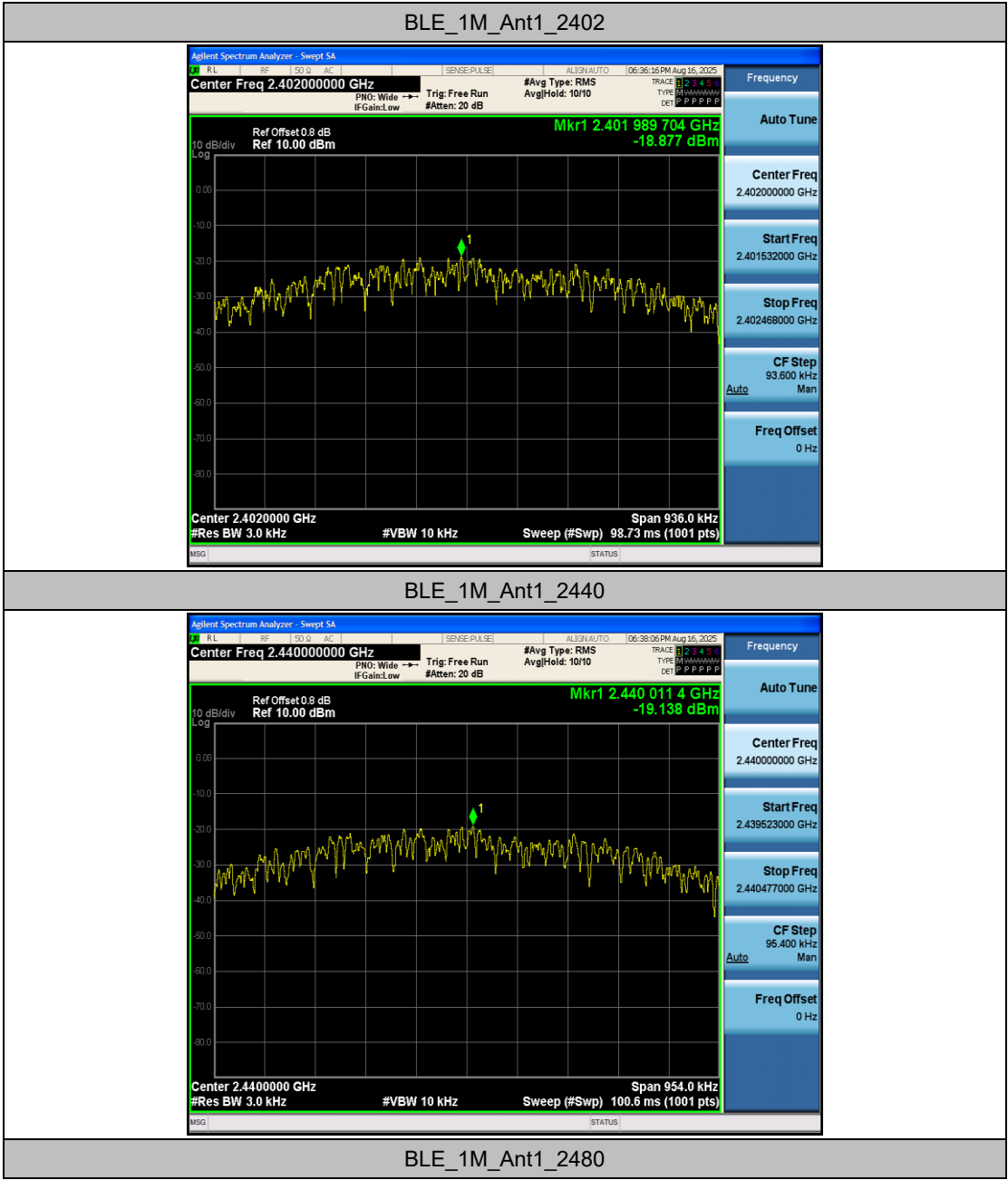
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.98	≤30	PASS
		2440	-3.51	≤30	PASS
		2480	-3.70	≤30	PASS

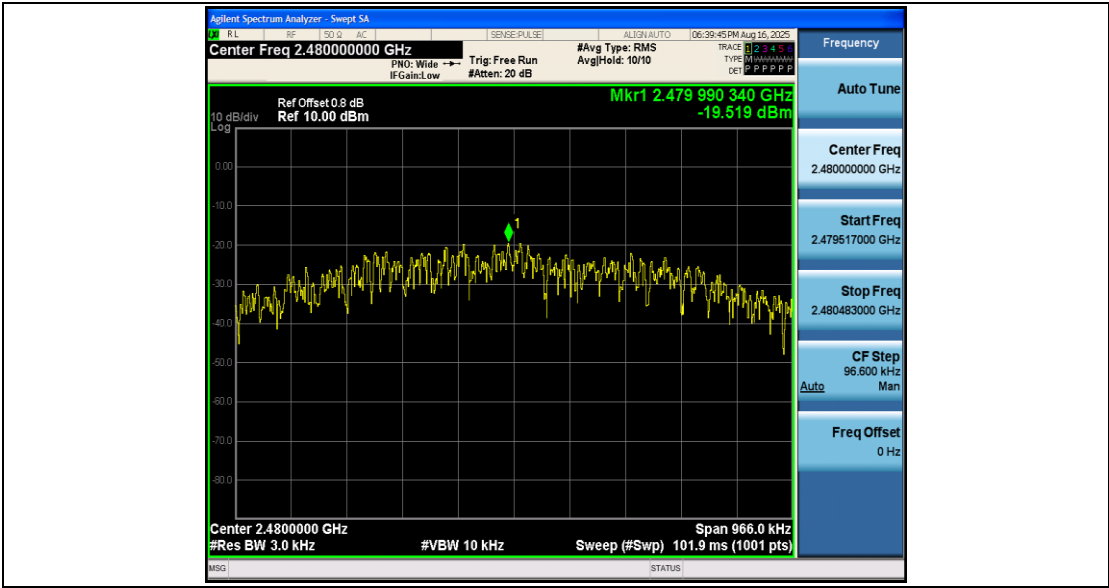
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.88	≤8.00	PASS
		2440	-19.14	≤8.00	PASS
		2480	-19.52	≤8.00	PASS

Test Graphs



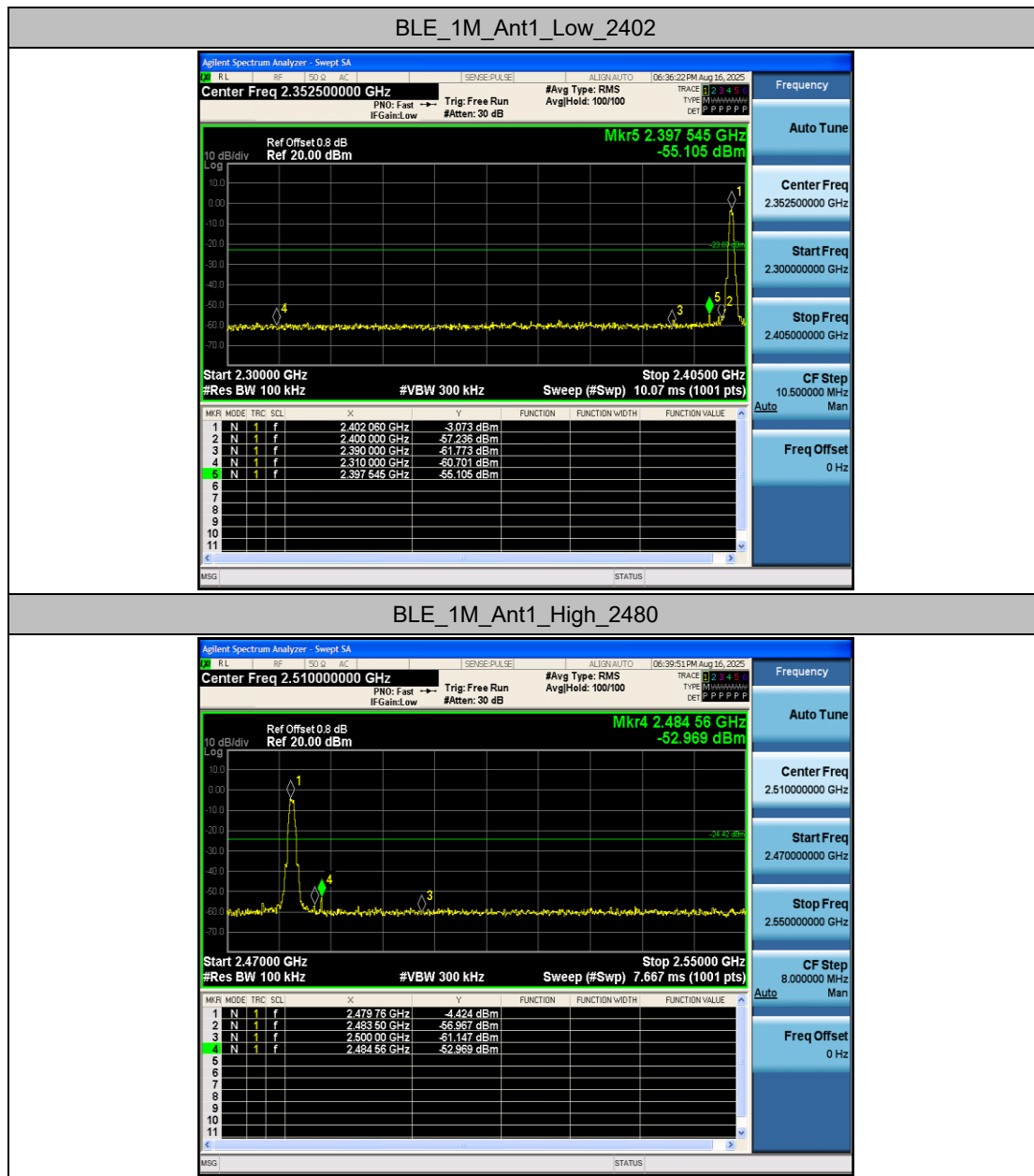


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.07	-55.11	≤-23.07	PASS
		High	2480	-4.42	-52.97	≤-24.42	PASS

Test Graphs

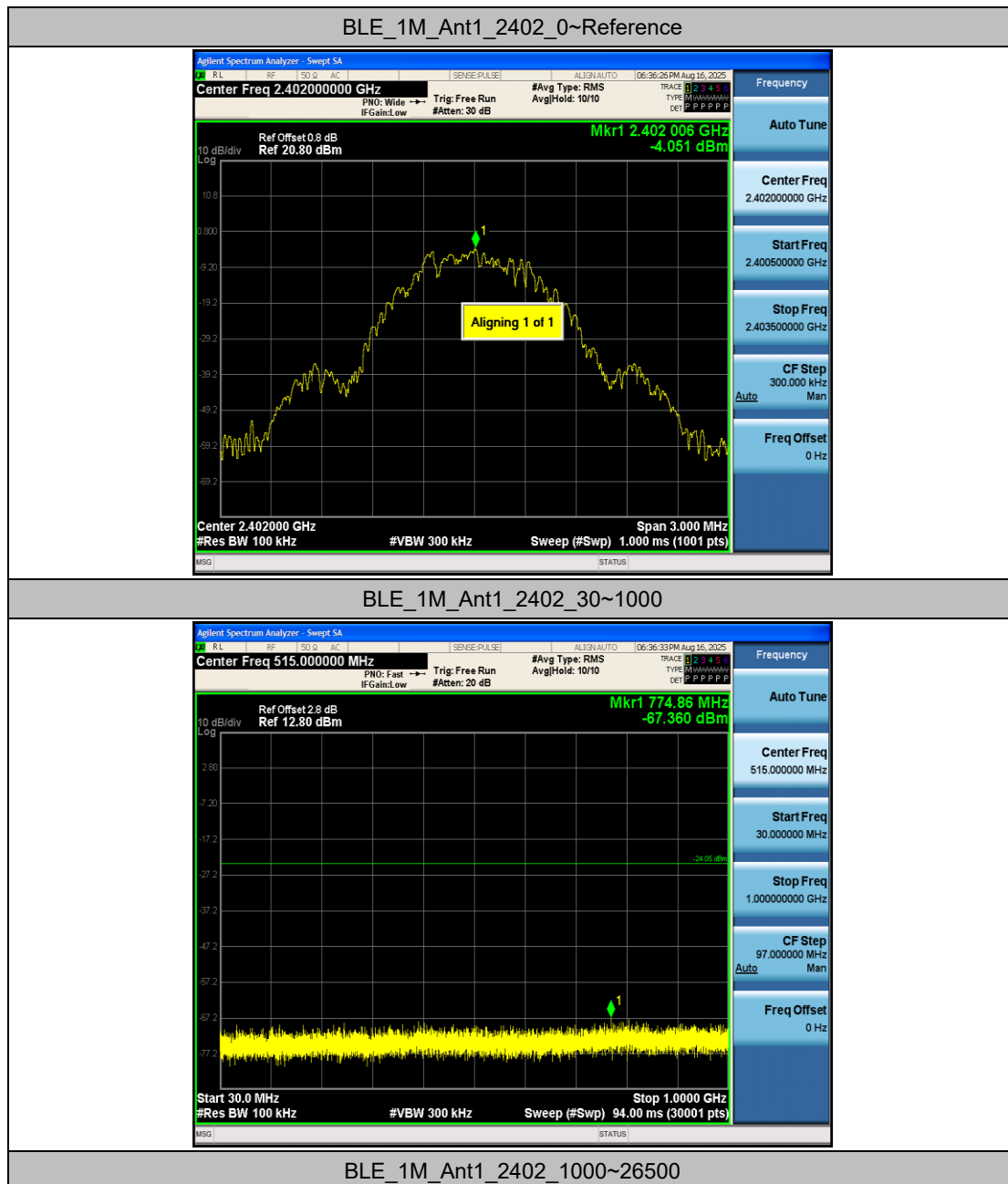


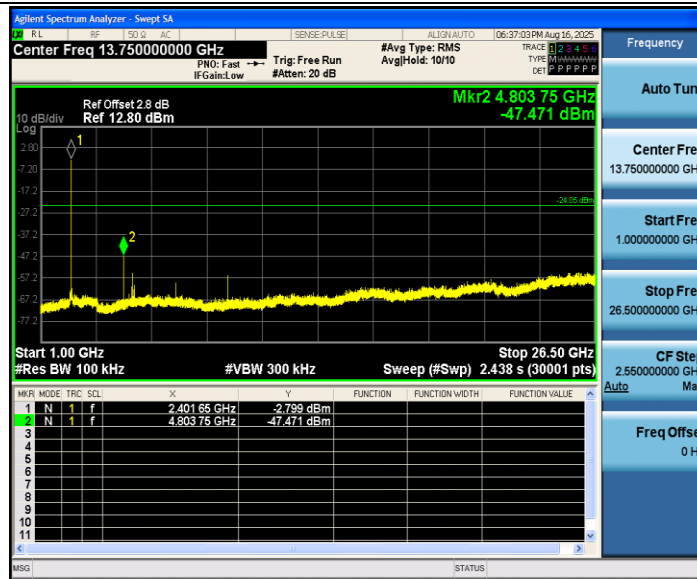
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.05	-4.05	---	PASS
			30~1000	-4.05	-67.36	≤-24.05	PASS
			1000~26500	-4.05	-47.47	≤-24.05	PASS
		2440	Reference	-4.09	-4.09	---	PASS
			30~1000	-4.09	-67.31	≤-24.09	PASS
			1000~26500	-4.09	-46.29	≤-24.09	PASS
		2480	Reference	-4.75	-4.75	---	PASS
			30~1000	-4.75	-67.52	≤-24.75	PASS
			1000~26500	-4.75	-48.39	≤-24.75	PASS

Test Graphs

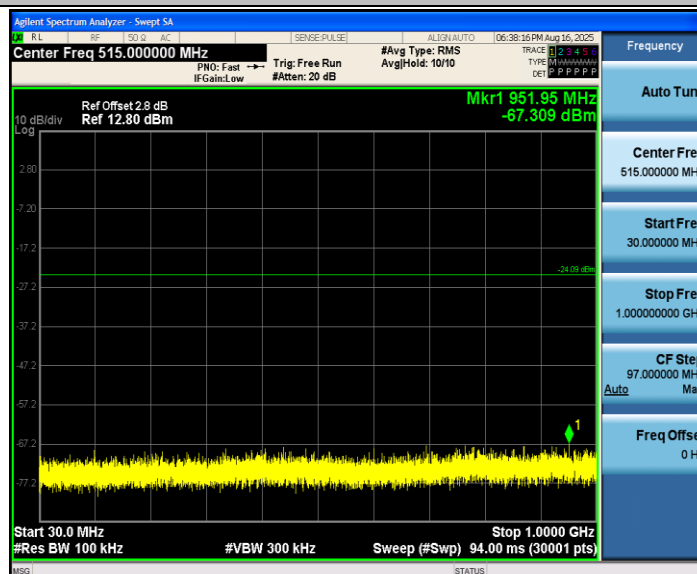




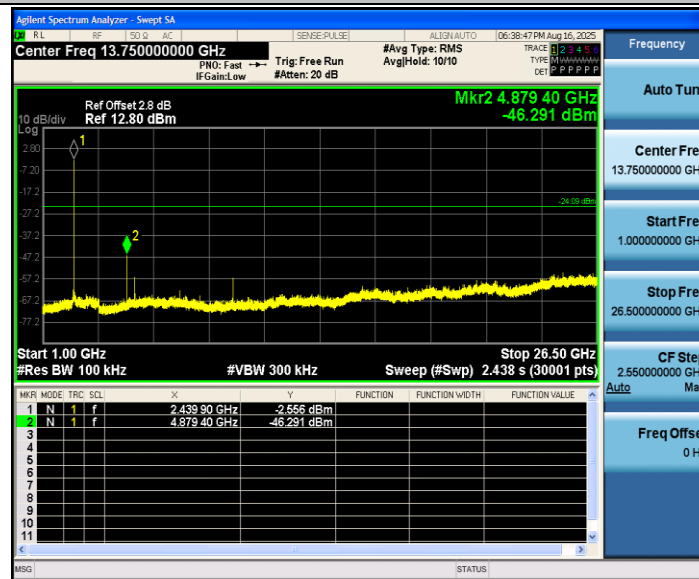
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



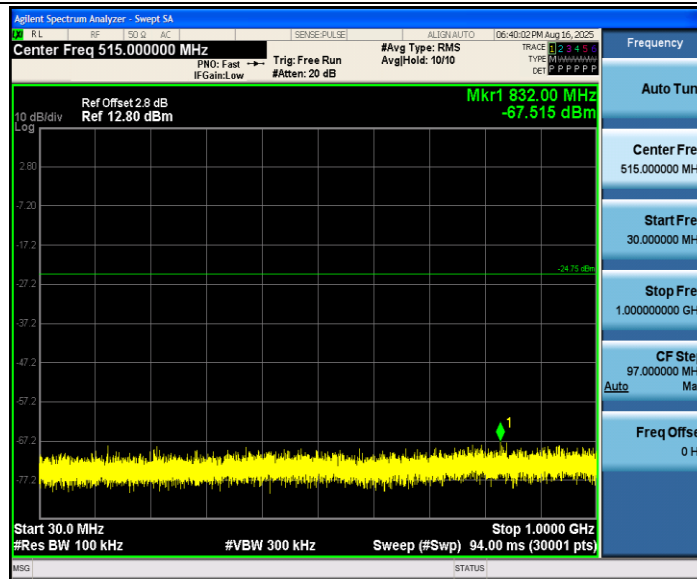
BLE_1M_Ant1_2440_1000~26500



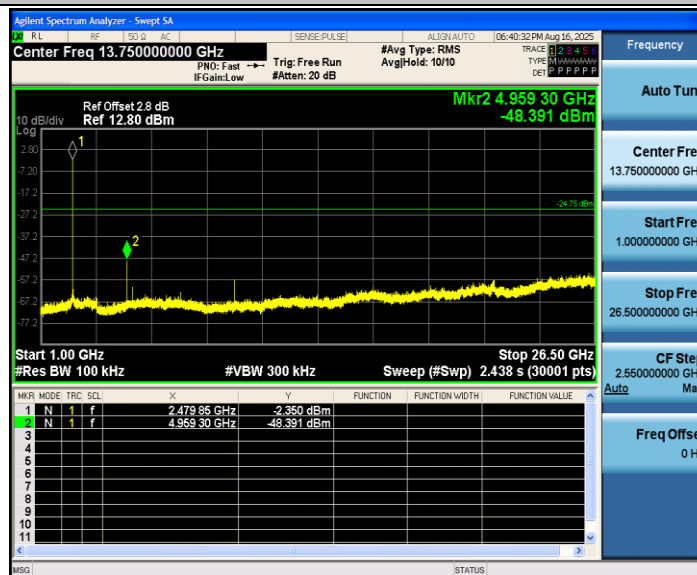
BLE_1M_Ant1_2480_0~Reference



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

