

Appendix RF Test Data for BLE

FCC ID : 2A3DK-DSPH

Company : Chengdu Tops Technology Co.,Ltd.

EUT : Pet smart feeder

Model Number : DSPH

Report No. : CTA25082100701

Reviewed By : Eric Wang

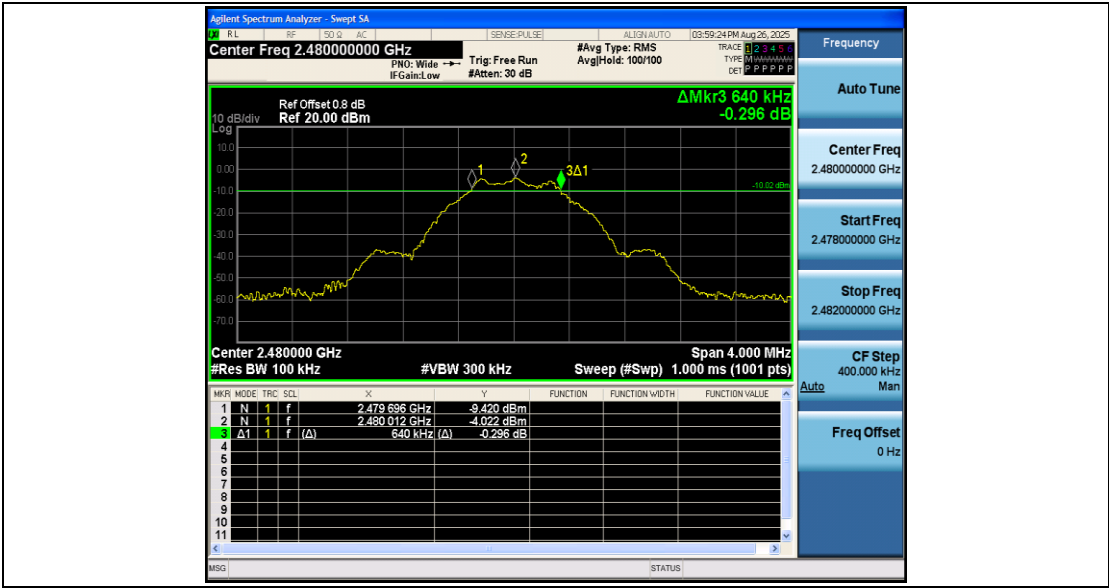
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.704	2402.336	0.5	PASS
		2440	0.660	2439.680	2440.340	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



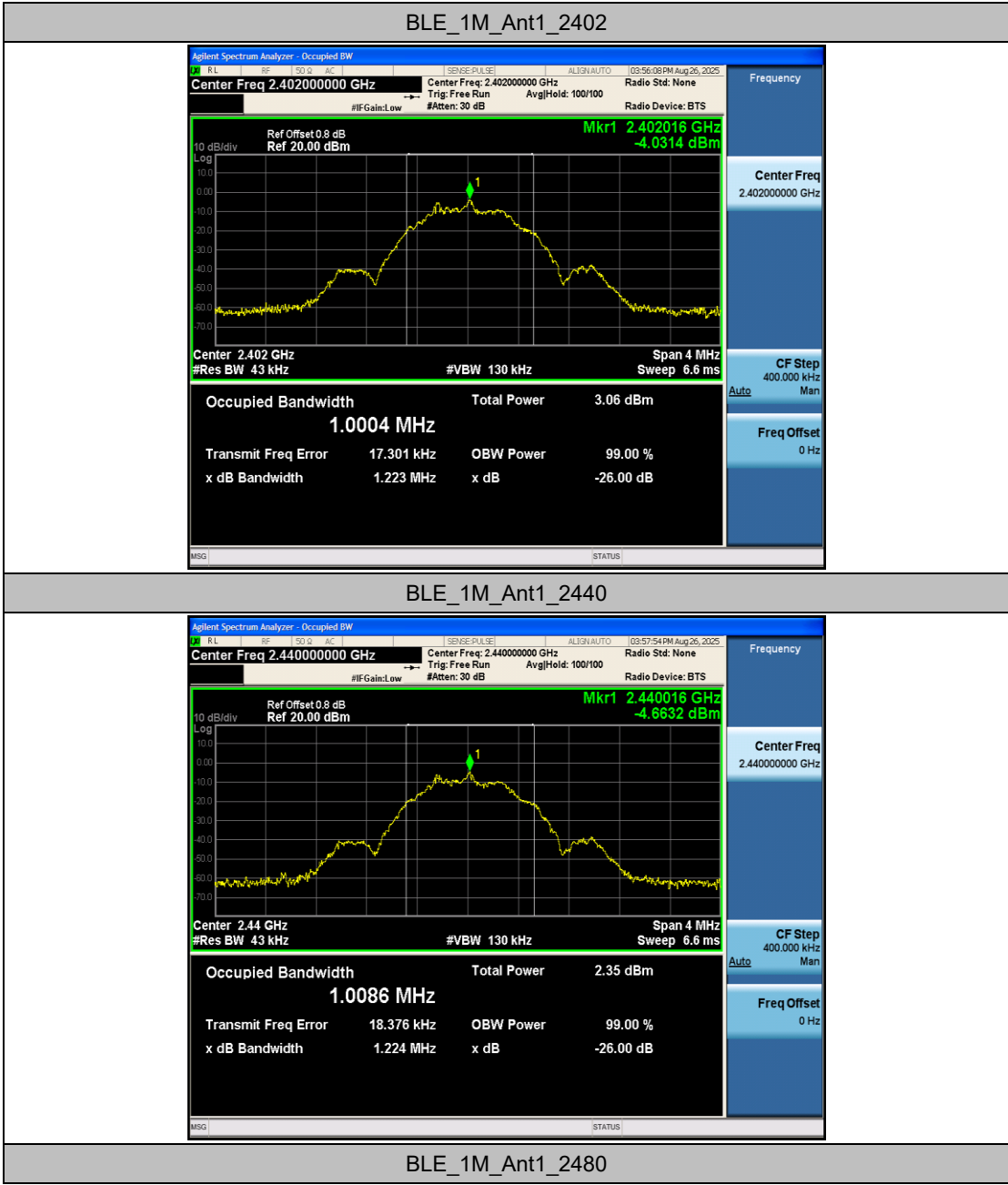


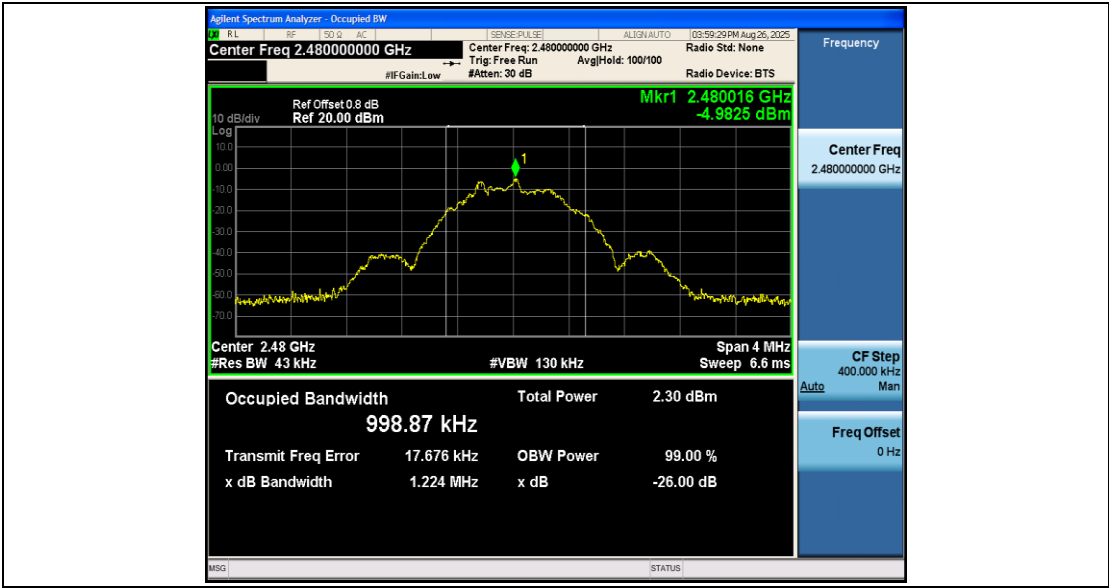
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0004	2401.5171	2402.5175	---	---
		2440	1.0086	2439.5141	2440.5227	---	---
		2480	0.99887	2479.5182	2480.5171	---	---

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	-2.96	≤30	PASS
		2440	-3.61	≤30	PASS
		2480	-3.84	≤30	PASS

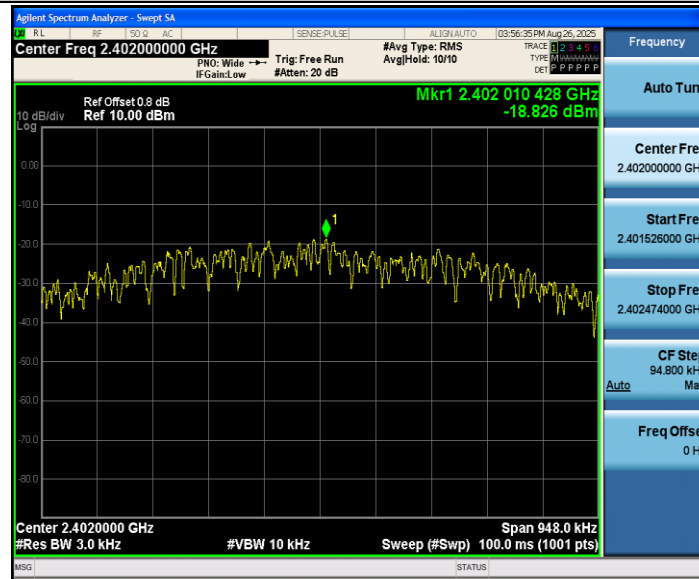
Appendix D: Maximum power spectral density

Test Result

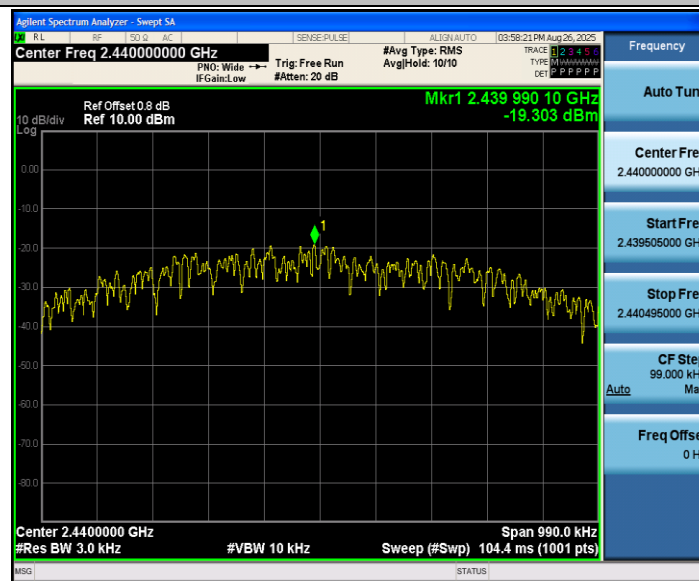
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.83	≤8.00	PASS
		2440	-19.30	≤8.00	PASS
		2480	-19.64	≤8.00	PASS

Test Graphs

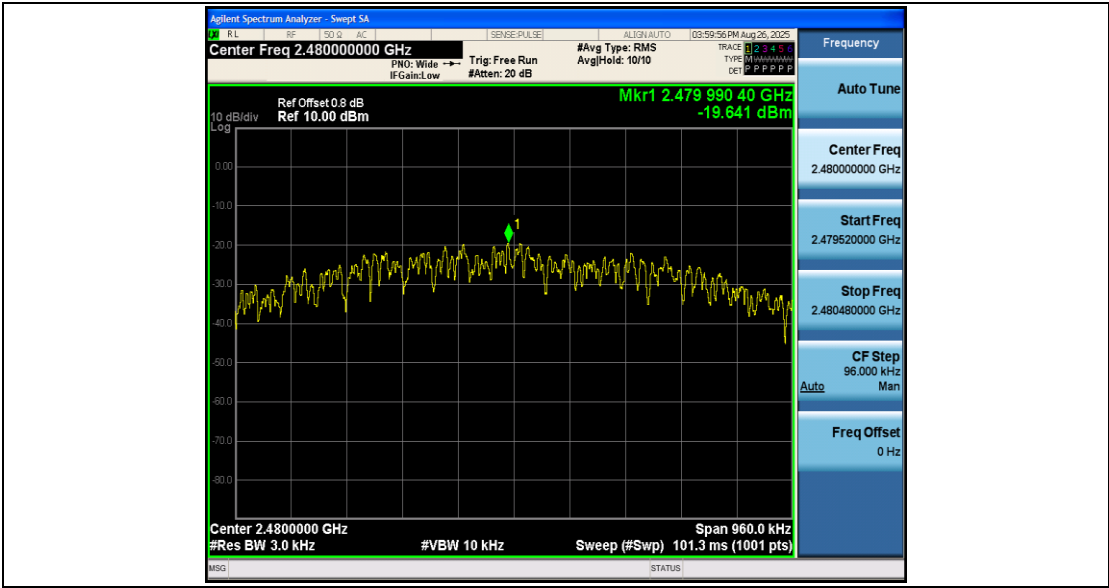
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

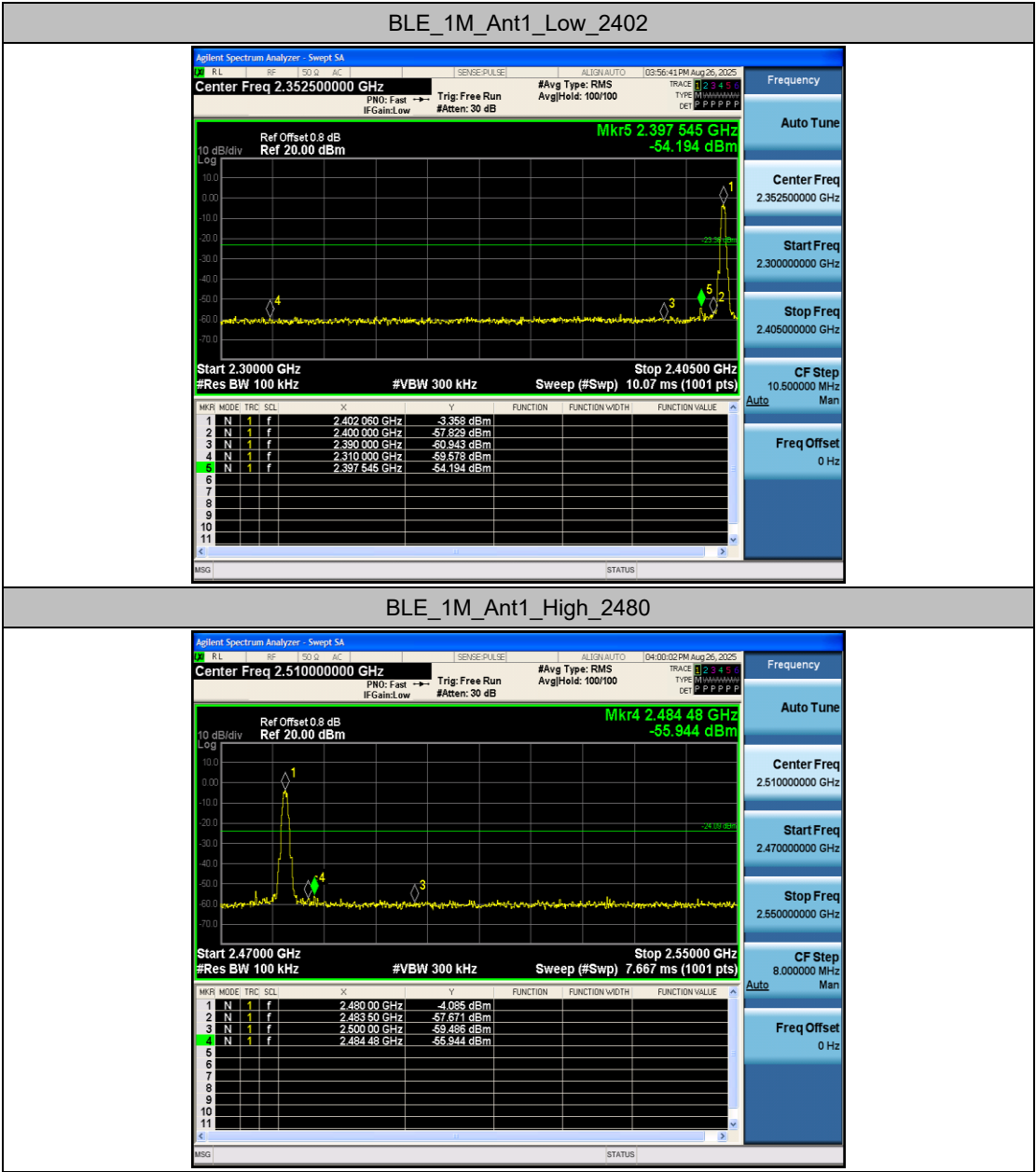


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.36	-54.19	≤-23.36	PASS
		High	2480	-4.09	-55.94	≤-24.09	PASS

Test Graphs

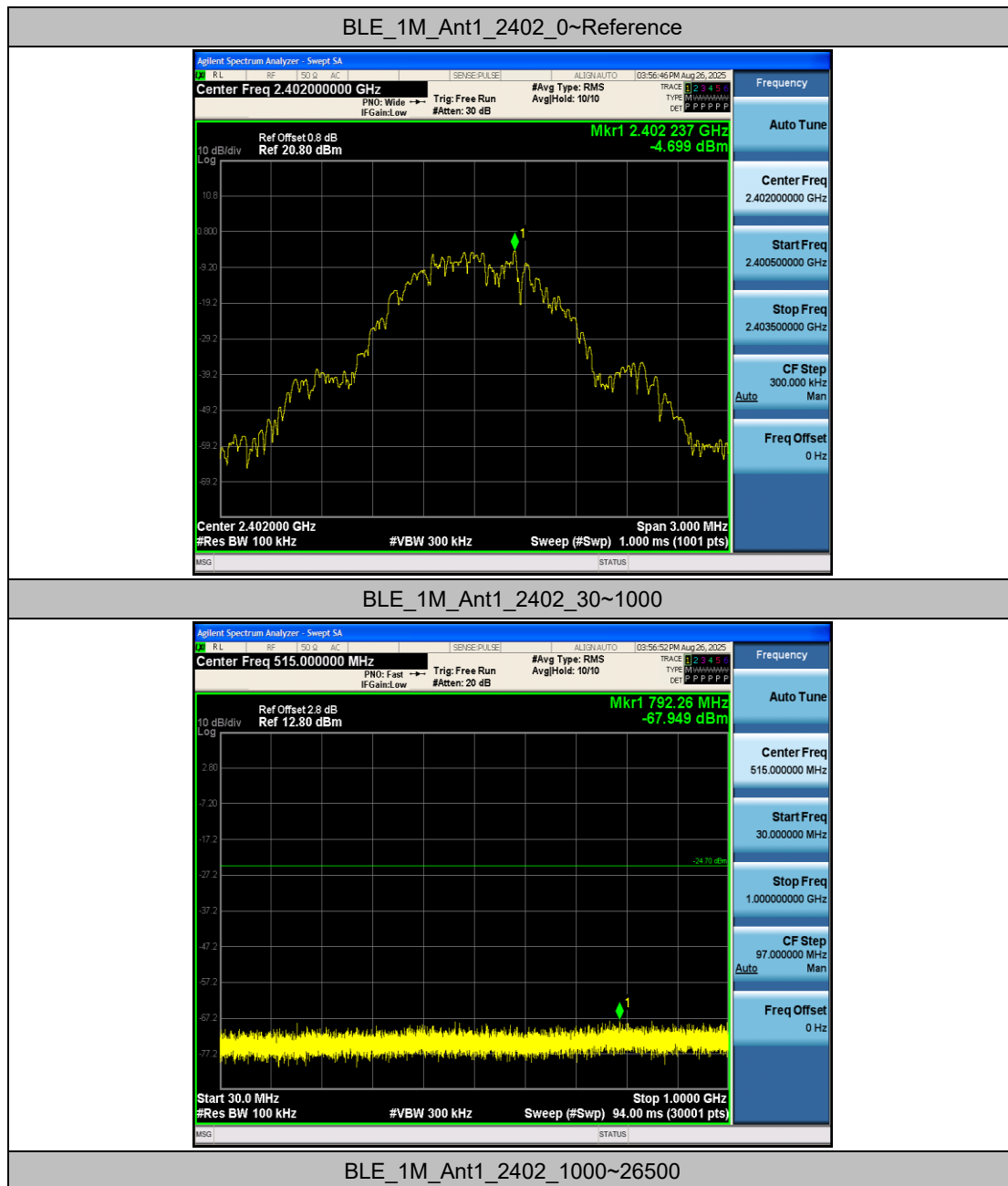


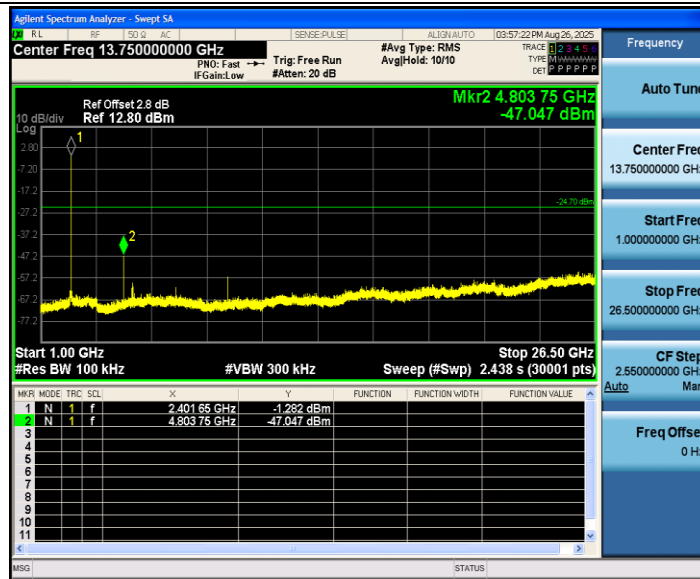
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-67.95	≤-24.7	PASS
			1000~26500	-4.70	-47.05	≤-24.7	PASS
		2440	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-66.75	≤-23.73	PASS
			1000~26500	-3.73	-46.72	≤-23.73	PASS
		2480	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-67.57	≤-25.25	PASS
			1000~26500	-5.25	-47.97	≤-25.25	PASS

Test Graphs

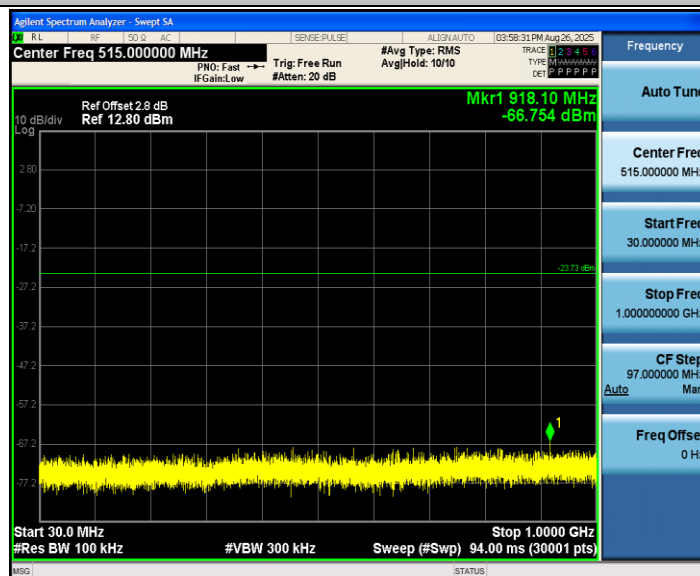




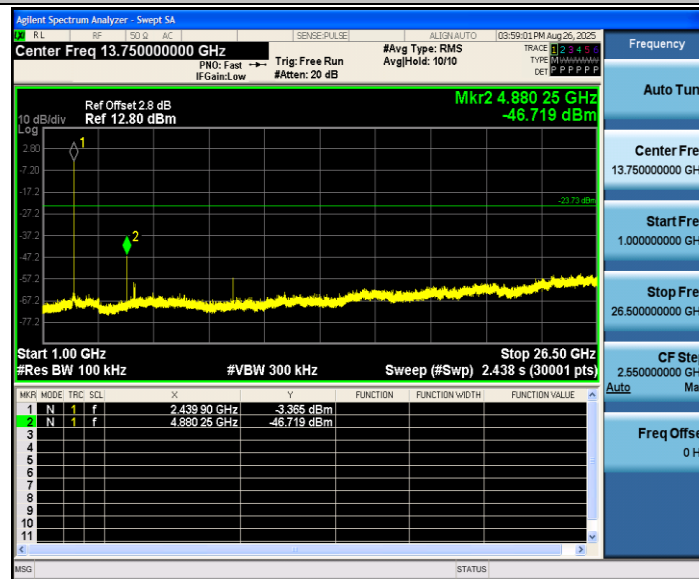
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



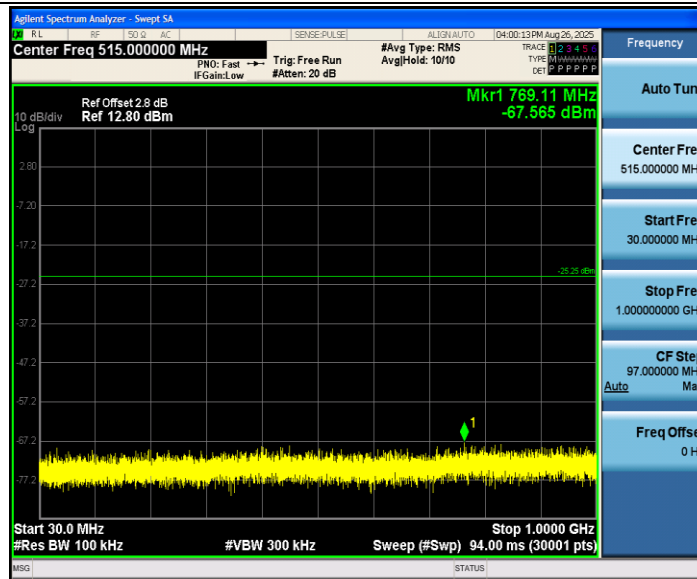
BLE_1M_Ant1_2440_1000~26500



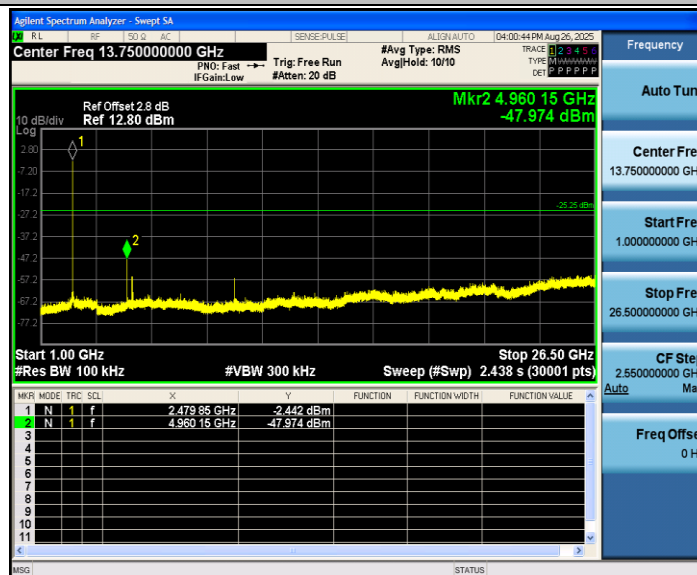
BLE_1M_Ant1_2480_0~Reference



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

