Appendix FCC Test Data

Case No. : NCT24047506XE

EUT: Bluetooth Earphone

M/N: ERAZER QT88

Standard:FCC Part15 Subpart C, Section 15.247

Test Power Supply: DC 3.7V

Ambient Condition: 25 ℃, 45 %RH, 101.325 kPa

Test Date: Nov. 25, 2024 **Test Engineer:** Keven Wu

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.636	2402.340	0.5	PASS
		2440	0.708	2439.636	2440.344	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

Appendix B: Maximum conducted output power

Test Result Peak

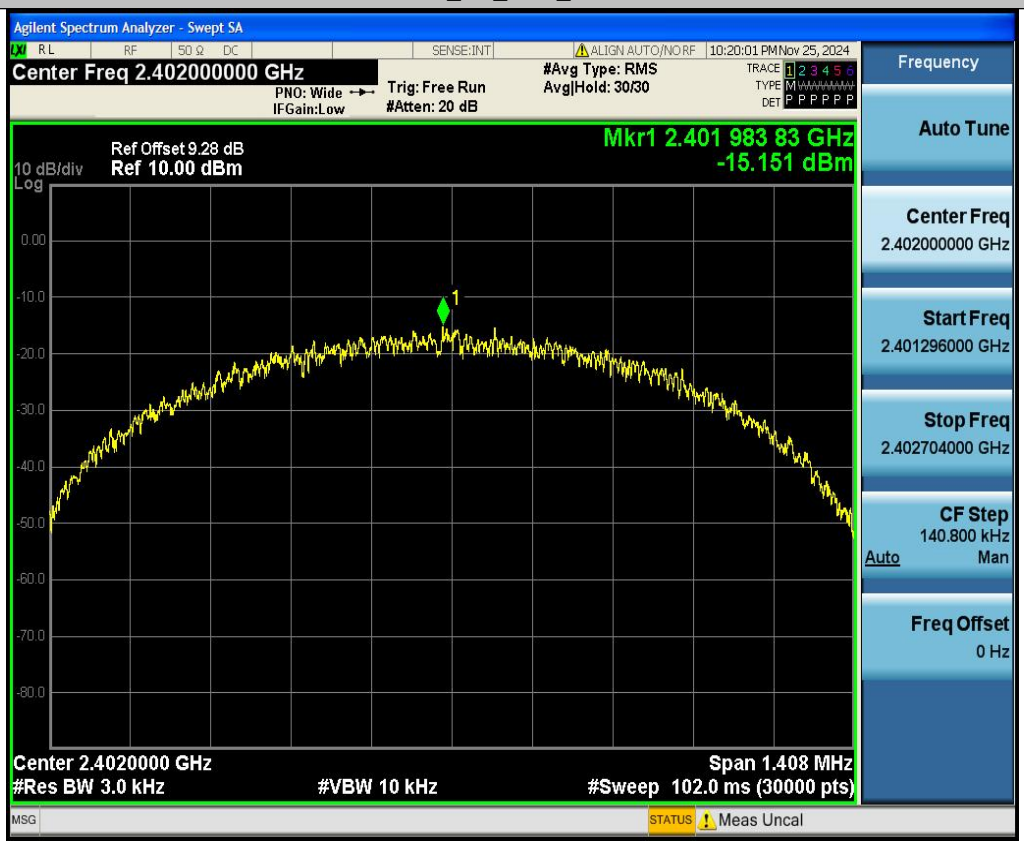
TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.11	≤30	PASS
		2440	1.14	≤30	PASS
		2480	0.94	≤30	PASS

Appendix C: Maximum power spectral density

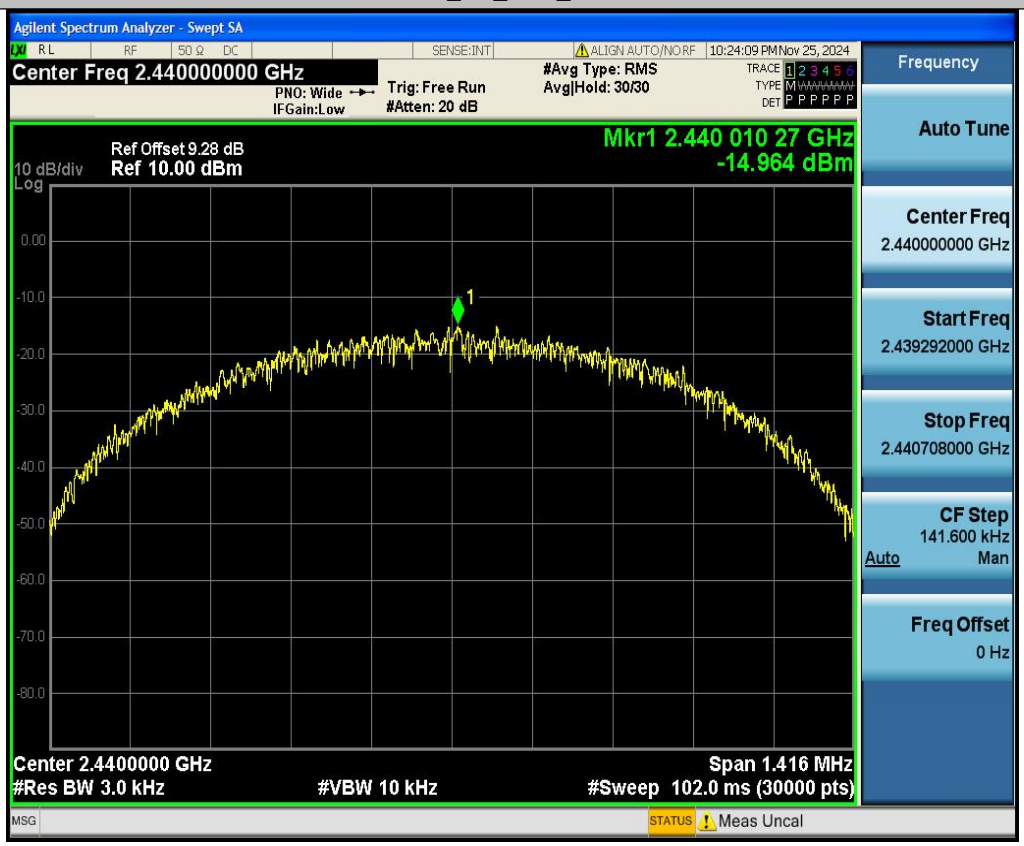
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.15	≤8.00	PASS
		2440	-14.96	≤8.00	PASS
		2480	-14.20	≤8.00	PASS

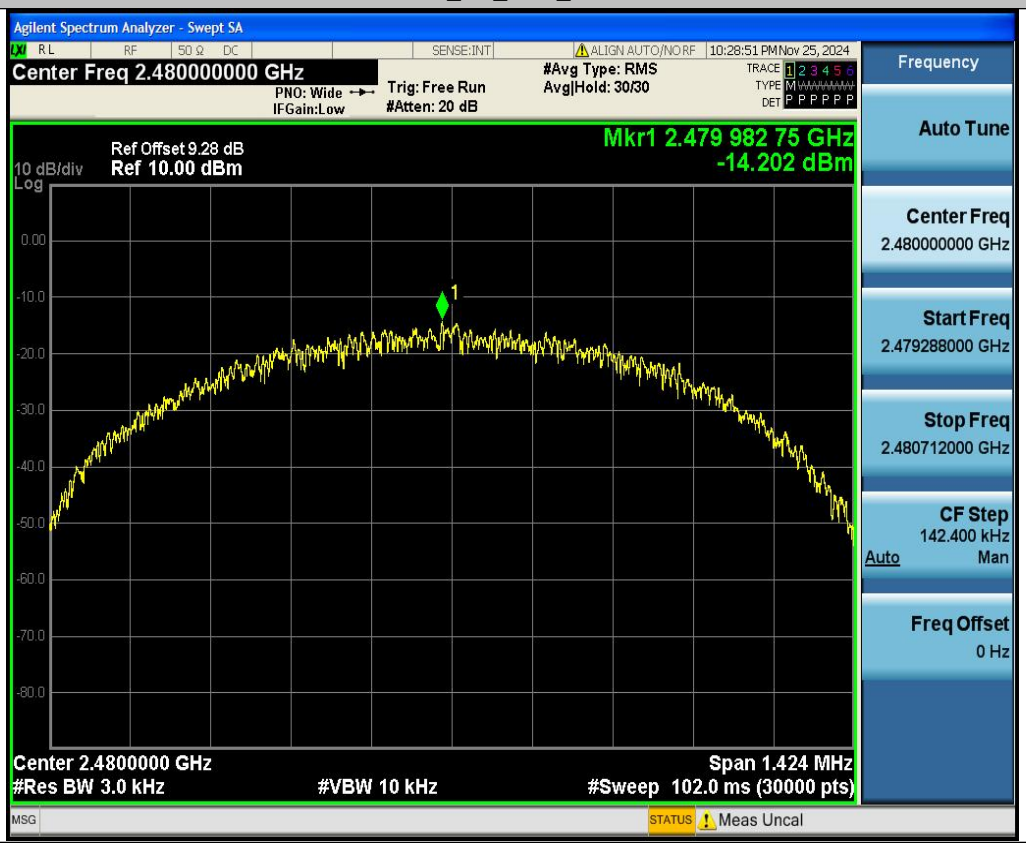
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

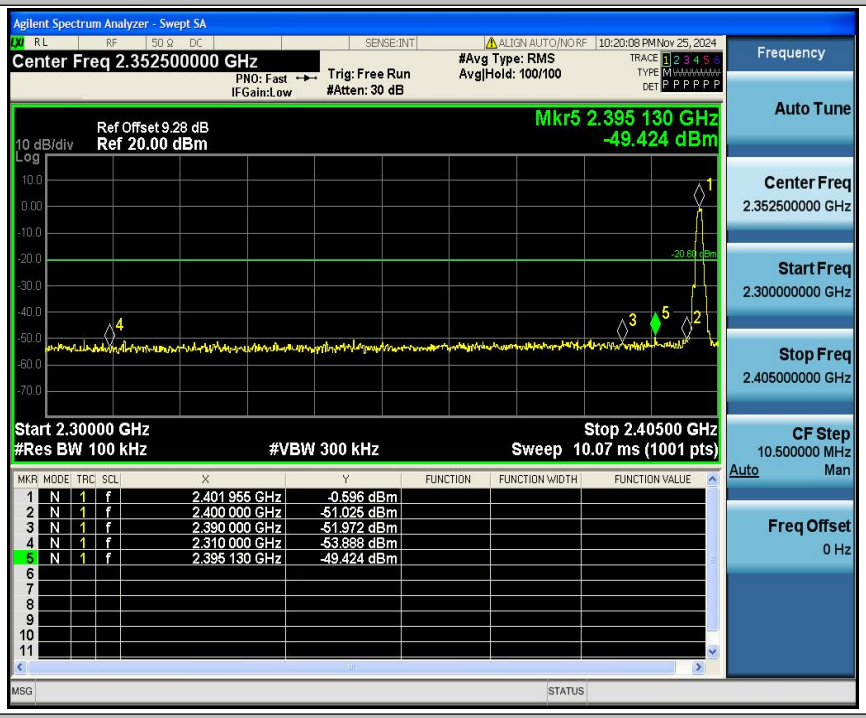


Appendix D: Band edge measurements

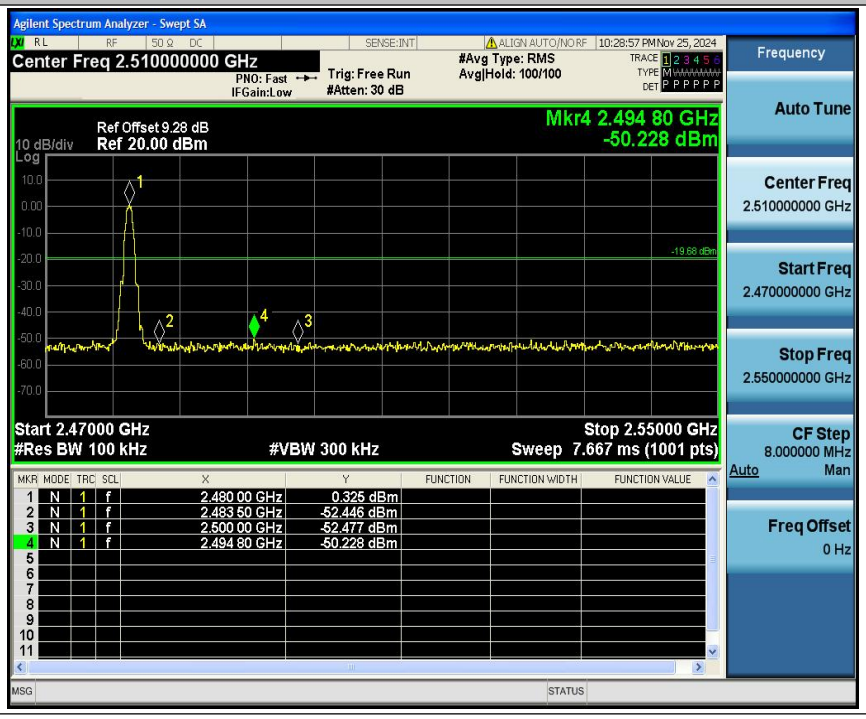
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.60	-49.42	≤-20.60	PASS
		High	2480	0.33	-50.23	≤-19.68	PASS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



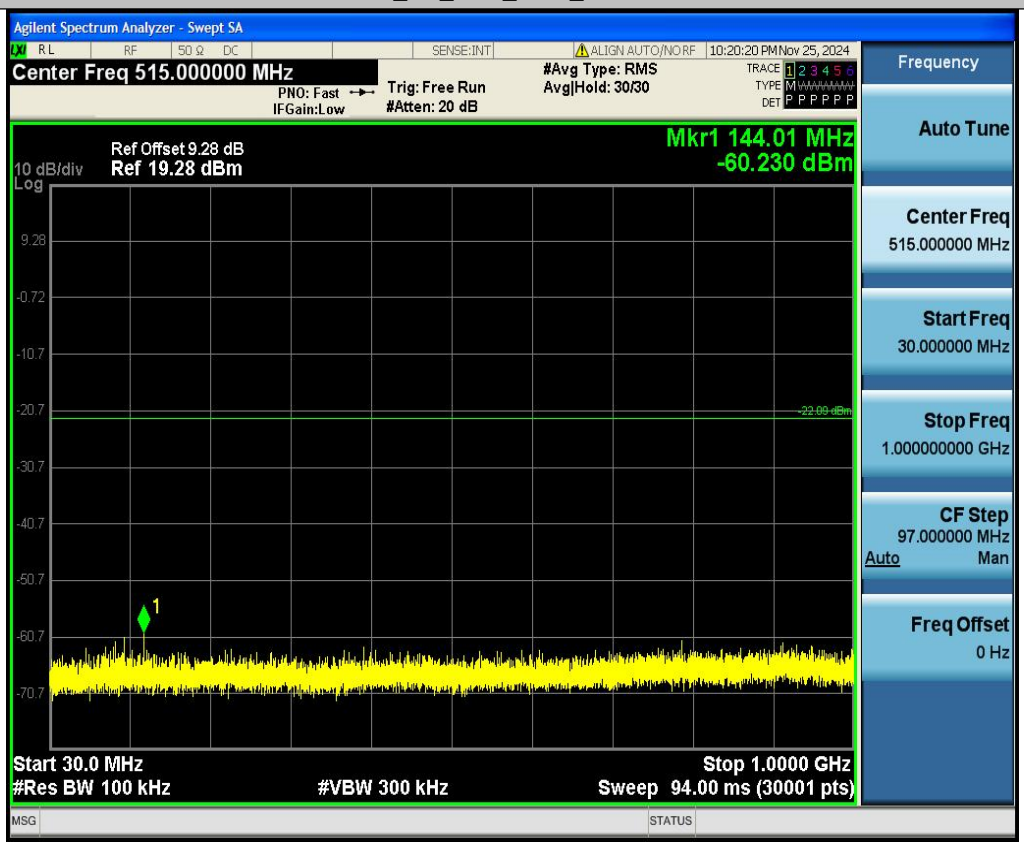
Appendix E: Conducted Spurious Emission

Test Result

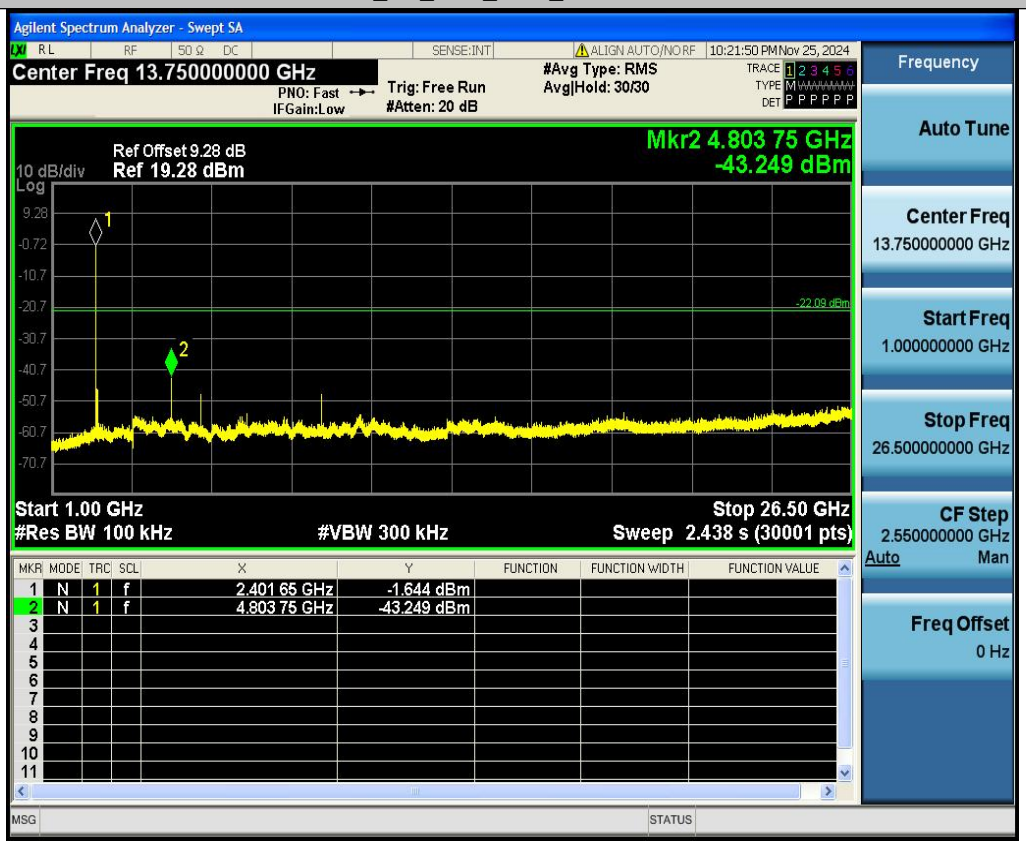
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-60.23	≤-22.09	PASS
			1000~26500	-2.09	-43.25	≤-22.09	PASS
		2440	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-60.71	≤-21.41	PASS
			1000~26500	-1.41	-43.37	≤-21.41	PASS
		2480	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-60.52	≤-20.50	PASS
			1000~26500	-0.50	-45.93	≤-20.50	PASS

BLE_1M_Ant1_2402_0~Reference

BLE_1M_Ant1_2402_30~1000

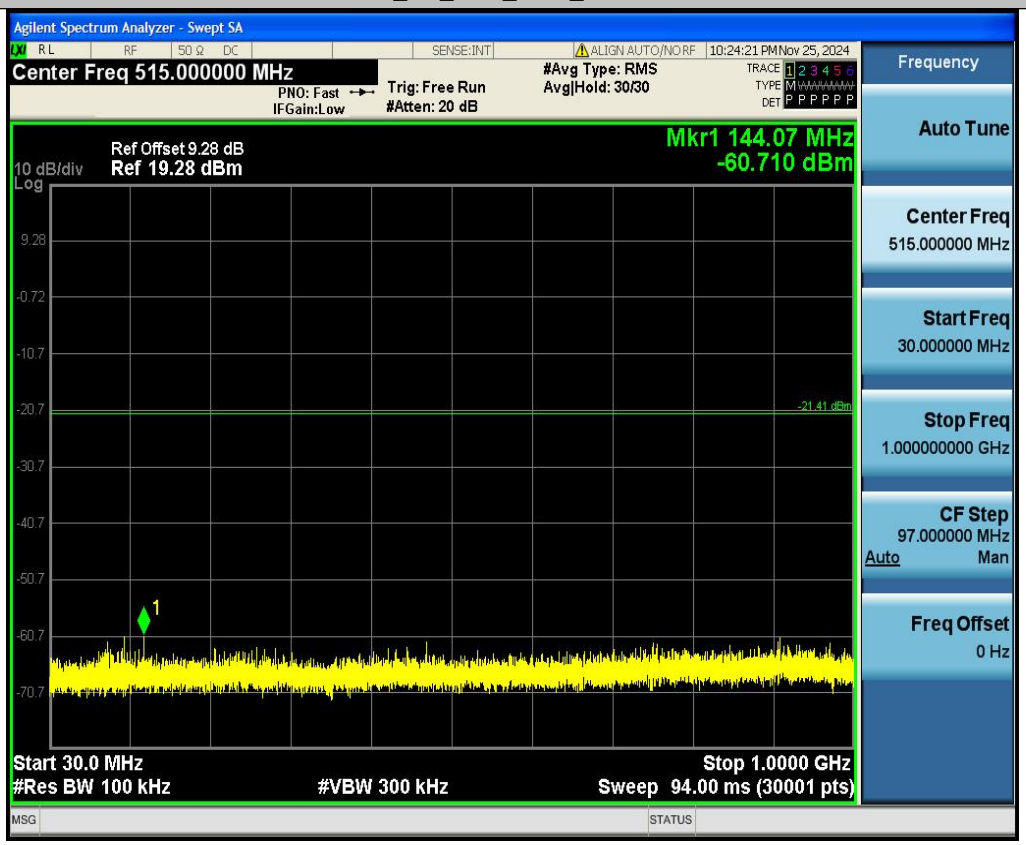


BLE_1M_Ant1_2402_1000~26500

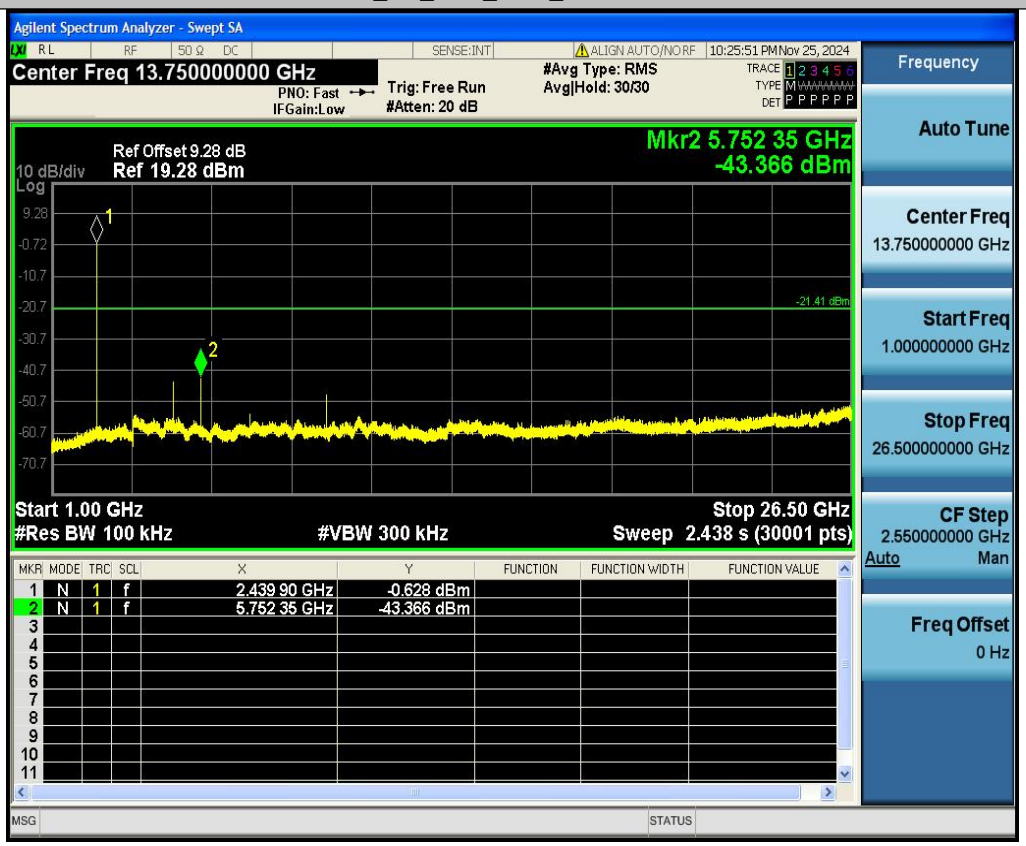


BLE_1M_Ant1_2440_0~Reference

BLE_1M_Ant1_2440_30~1000

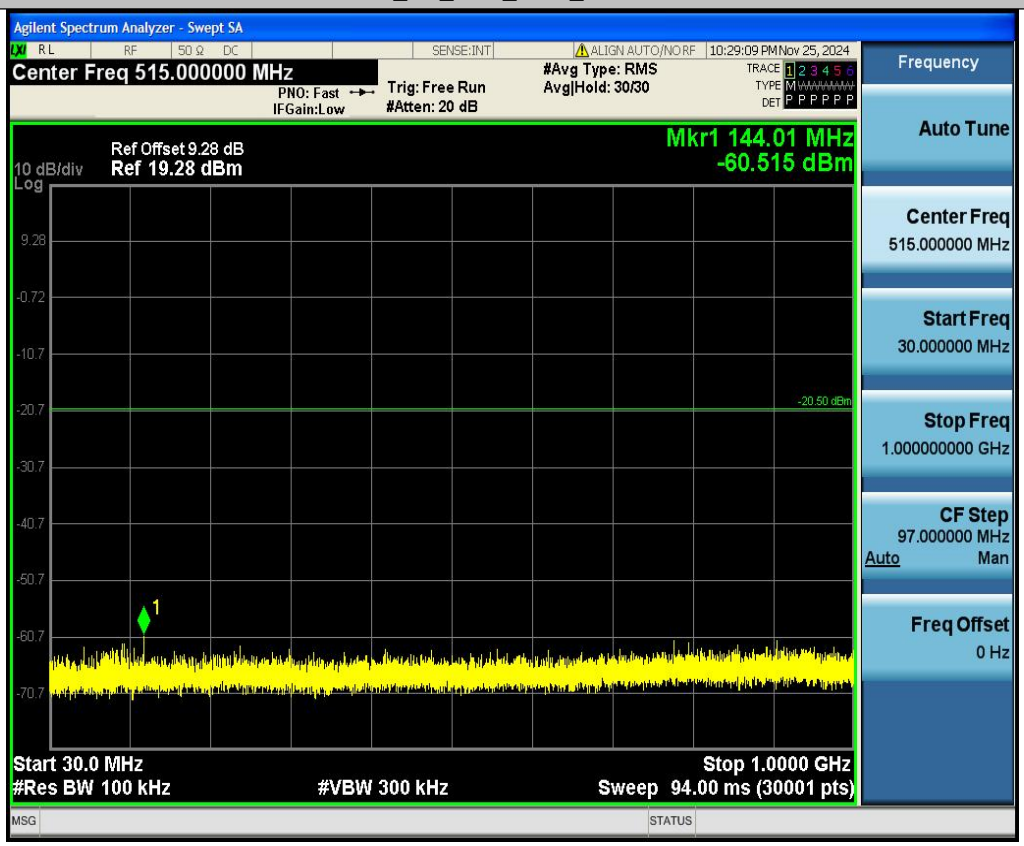


BLE_1M_Ant1_2440_1000~26500

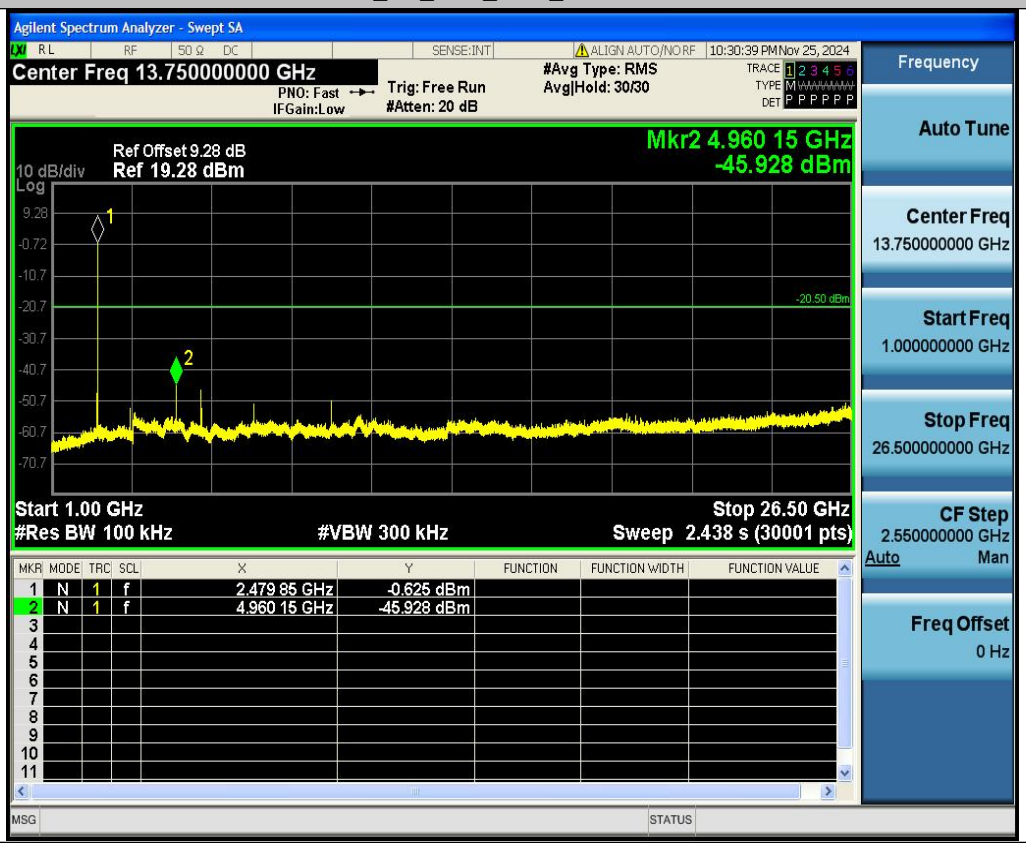


BLE_1M_Ant1_2480_0~Reference

BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

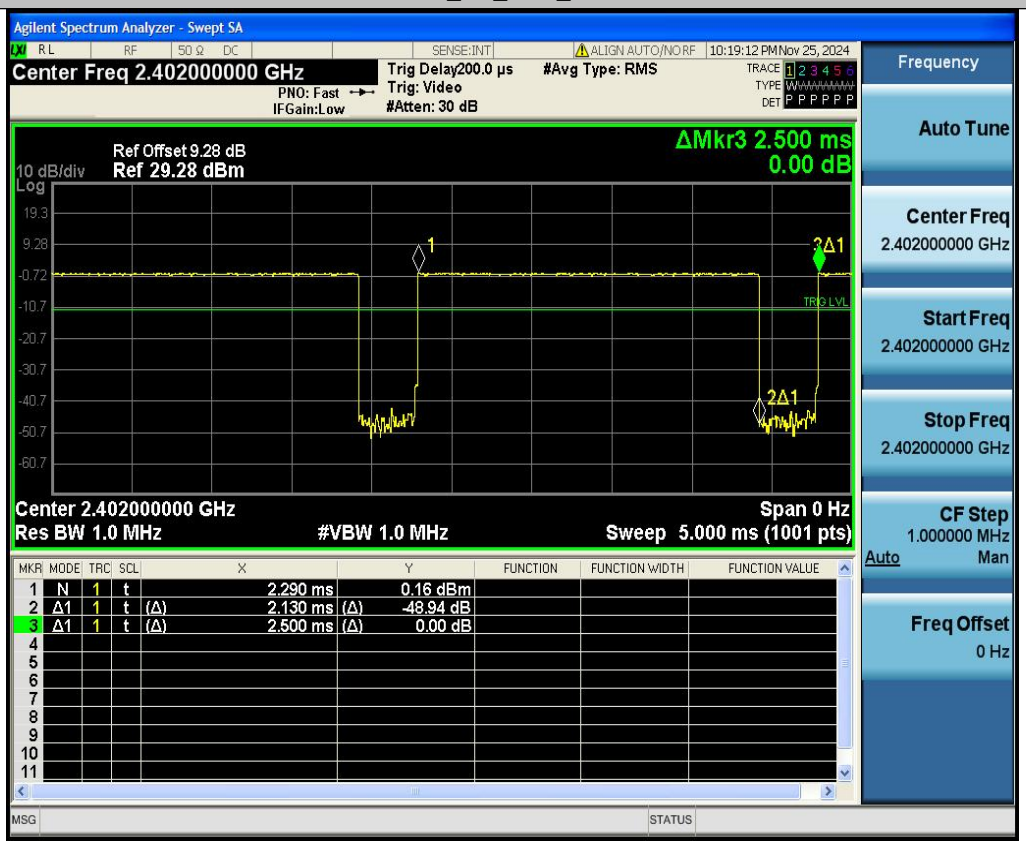


Appendix G: Duty Cycle

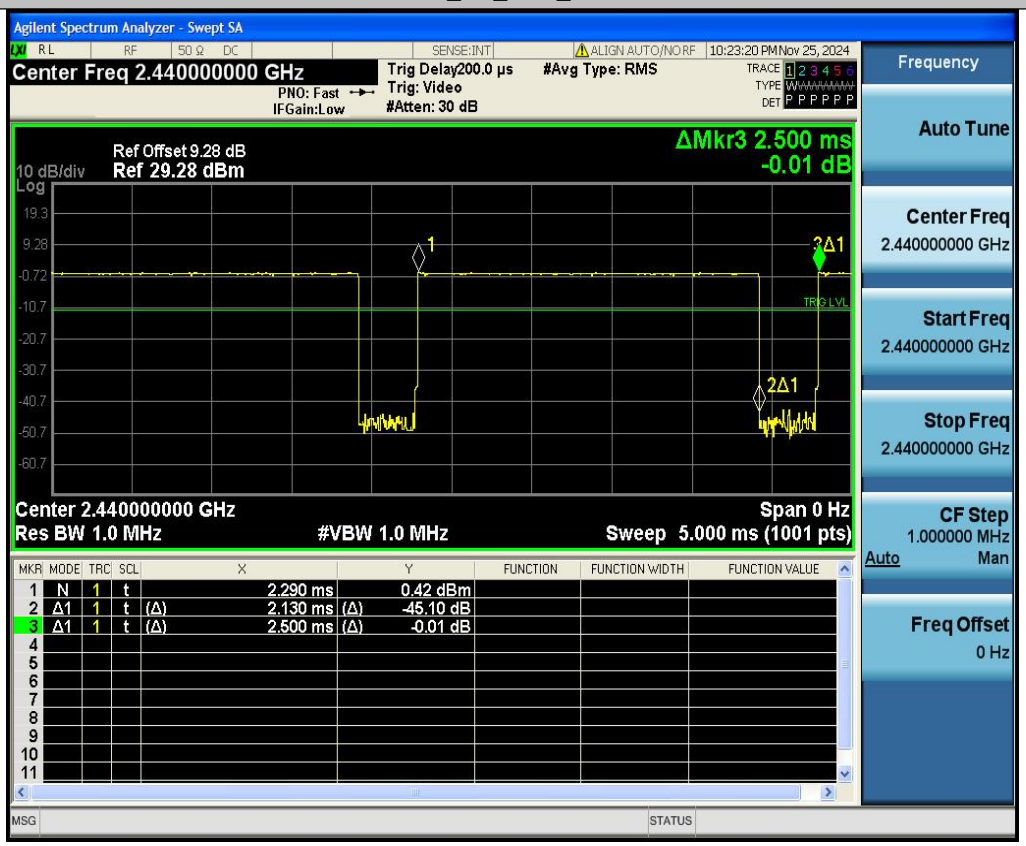
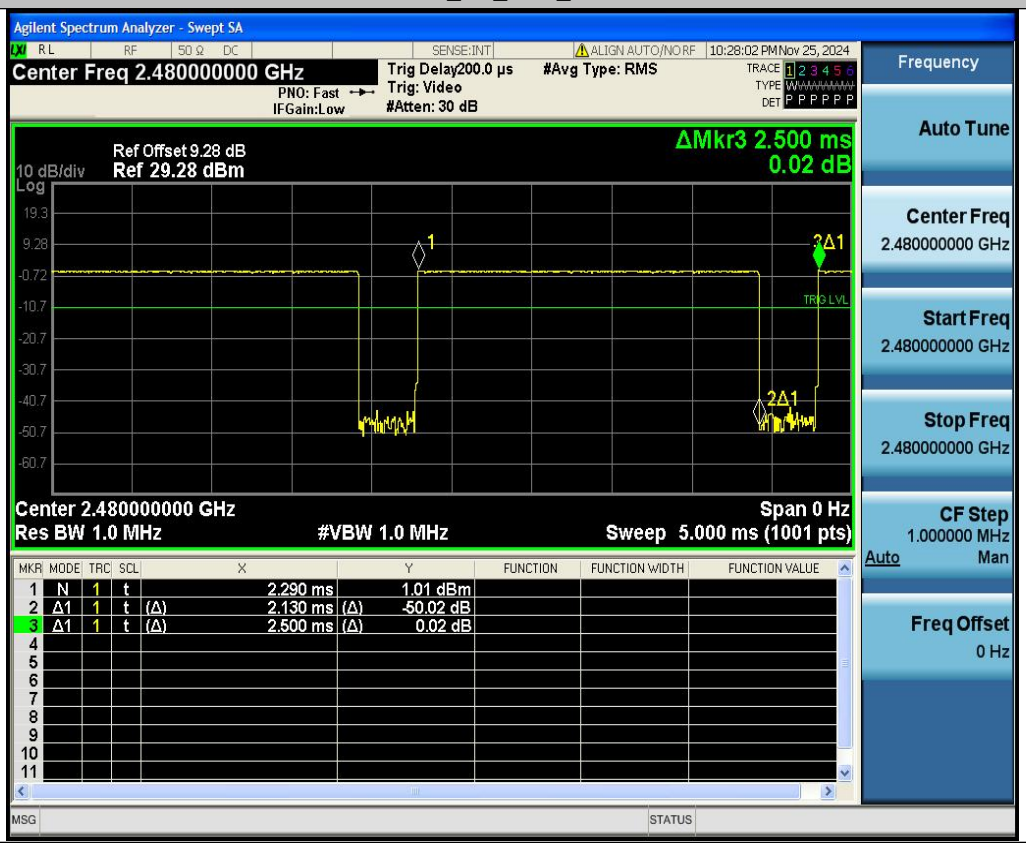
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	---
		2440	2.13	2.50	0.8520	85.20	0.70	---	---
		2480	2.13	2.50	0.8520	85.20	0.70	---	---

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480