



Appendix Test Data for BLE (Conducted Measurement)

Product Name: bird feeder camera

Trade Mark: /

Test Model: V11-WNQ-01

FCC ID: 2BVEK-V11WNQ01

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

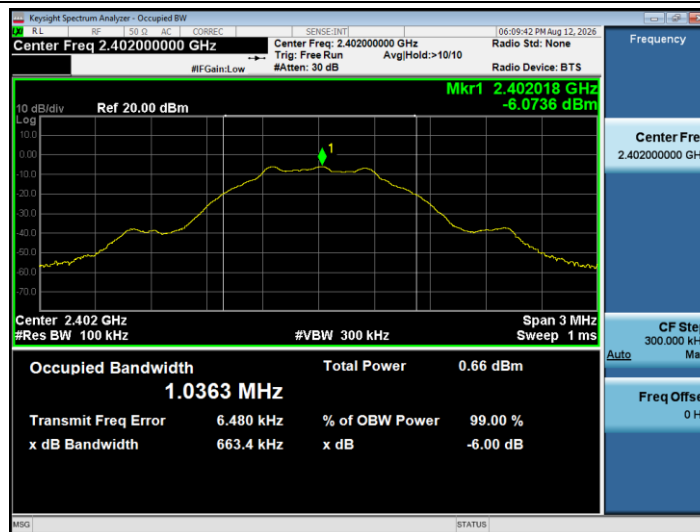
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.663	≥0.500	PASS
	Ant1	2440	0.667	≥0.500	PASS
	Ant1	2480	0.669	≥0.500	PASS
BLE_2M	Ant1	2402	1.159	≥0.500	PASS
	Ant1	2440	1.156	≥0.500	PASS
	Ant1	2480	1.159	≥0.500	PASS





Test Graphs



BLE_1M_Ant1_2402

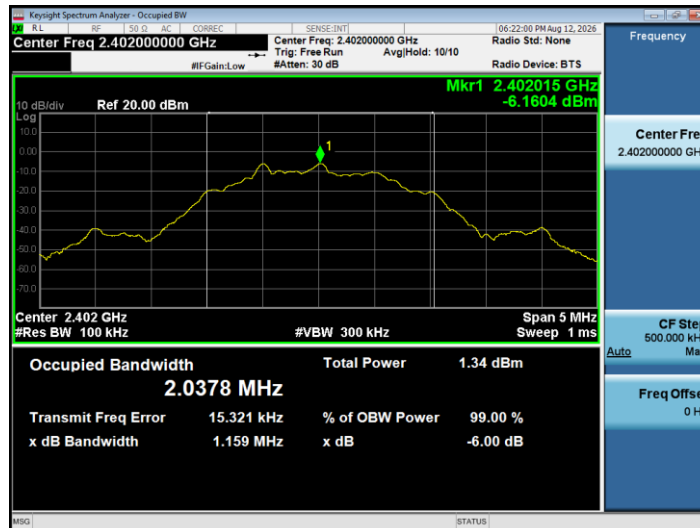


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix B: Occupied Channel Bandwidth

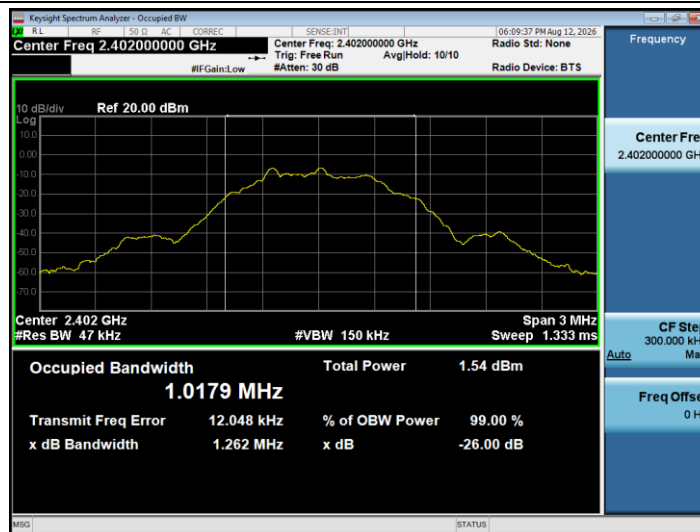
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	-26dB EBW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.018	1.262	---	---
	Ant1	2440	1.016	1.275	---	---
	Ant1	2480	1.018	1.266	---	---
BLE_2M	Ant1	2402	2.019	2.384	---	---
	Ant1	2440	2.020	2.384	---	---
	Ant1	2480	2.017	2.383	---	---





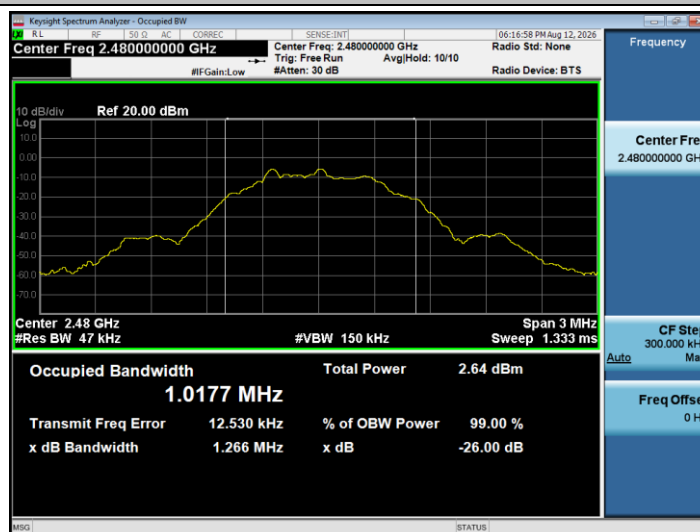
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

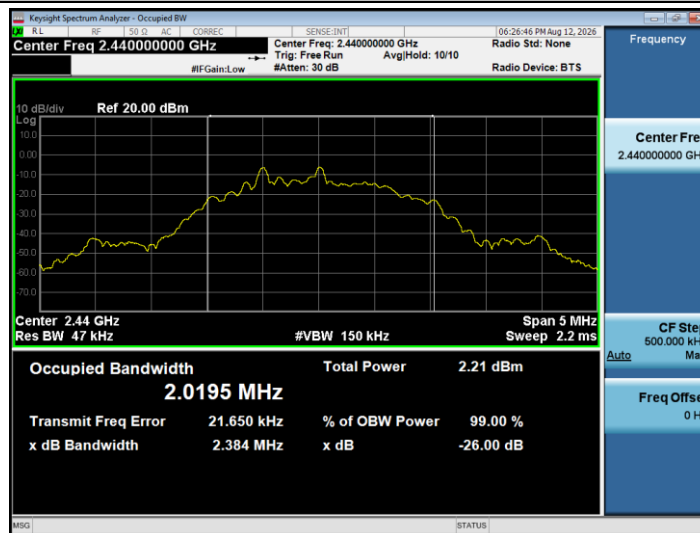


BLE_1M_Ant1_2480

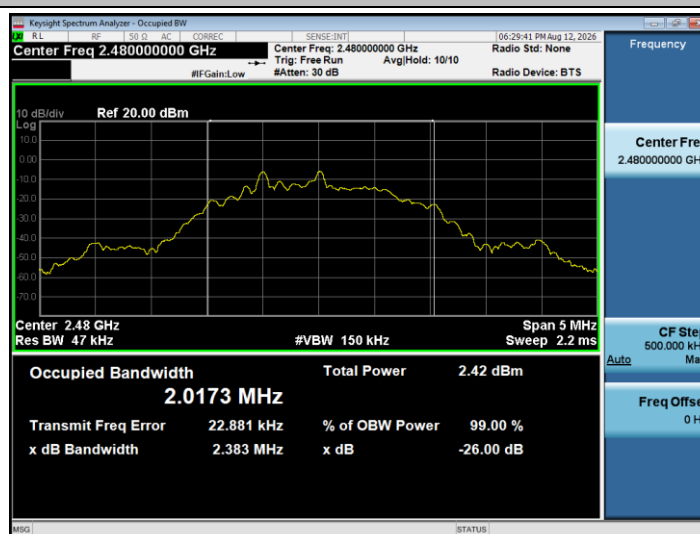




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix C: Maximum peak conducted output power

Test Result Peak

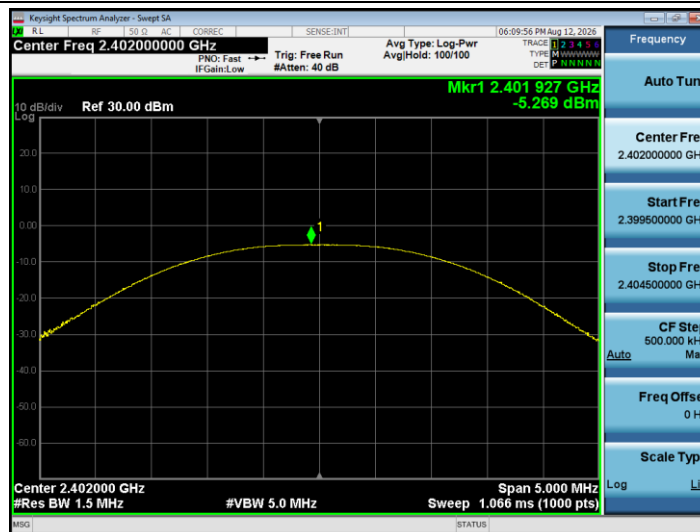
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-5.269	≤30.00	PASS
	Ant1	2440	-4.390	≤30.00	PASS
	Ant1	2480	-4.113	≤30.00	PASS
BLE_2M	Ant1	2402	-5.468	≤30.00	PASS
	Ant1	2440	-4.519	≤30.00	PASS
	Ant1	2480	-4.335	≤30.00	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

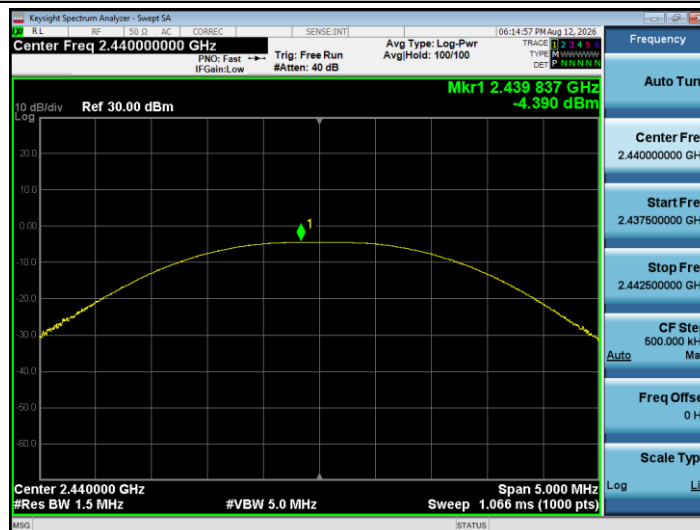




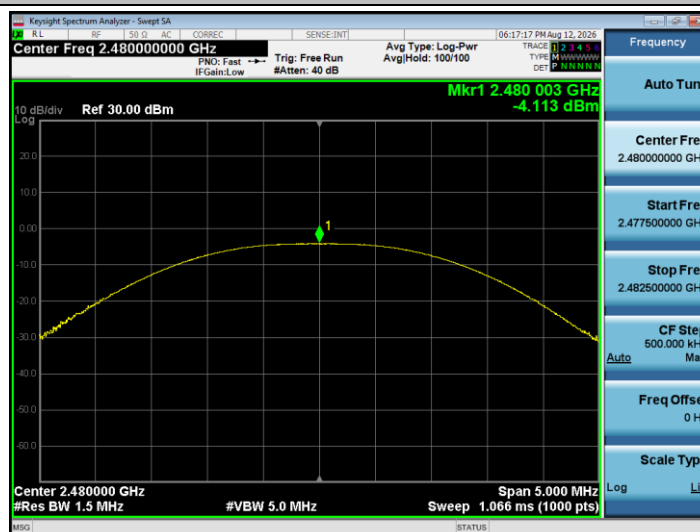
Test Graphs Peak



BLE_1M_Ant1_2402

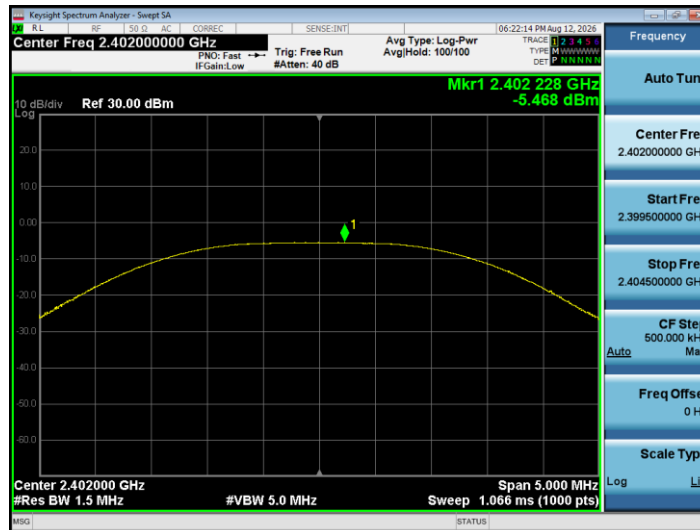


BLE_1M_Ant1_2440

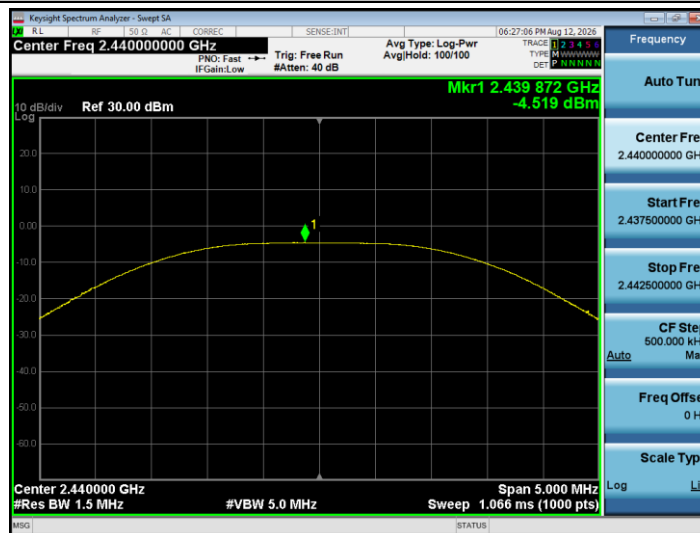


BLE_1M_Ant1_2480

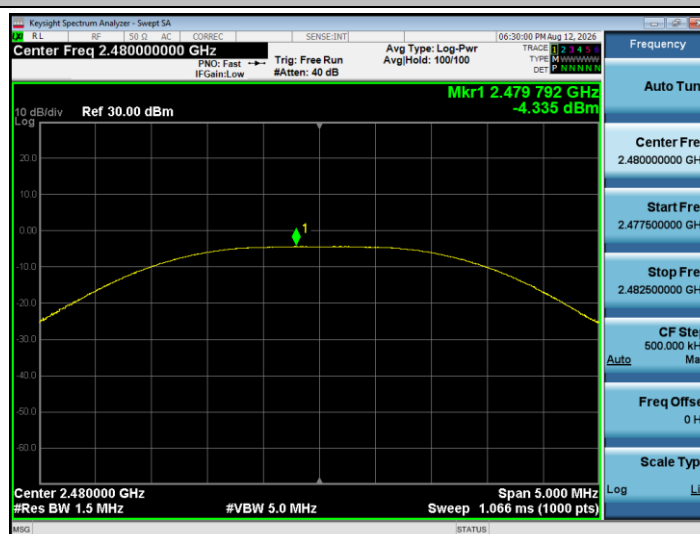




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix D: Maximum peak power spectral density

Test Result

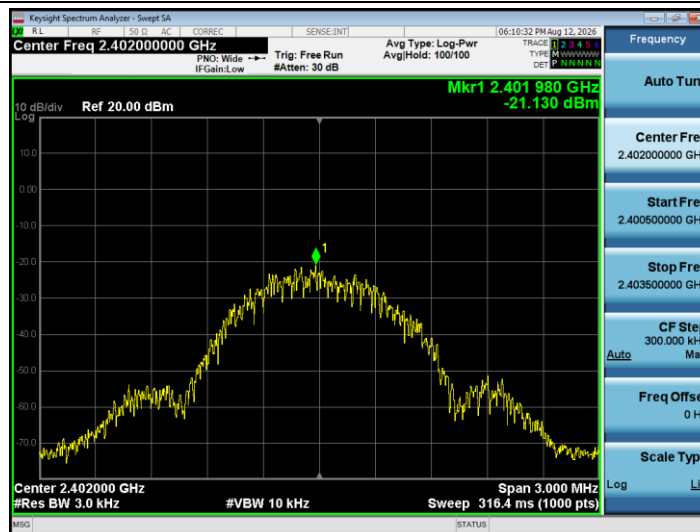
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.130	≤8.000	PASS
	Ant1	2440	-20.313	≤8.000	PASS
	Ant1	2480	-19.904	≤8.000	PASS
BLE_2M	Ant1	2402	-24.289	≤8.000	PASS
	Ant1	2440	-23.162	≤8.000	PASS
	Ant1	2480	-22.863	≤8.000	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

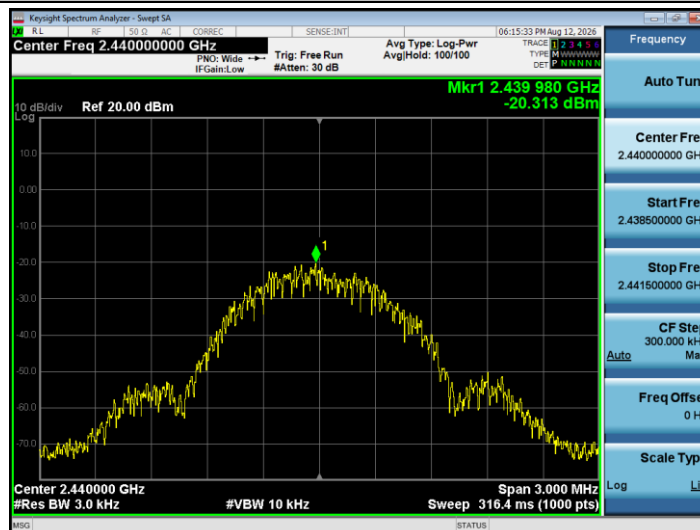




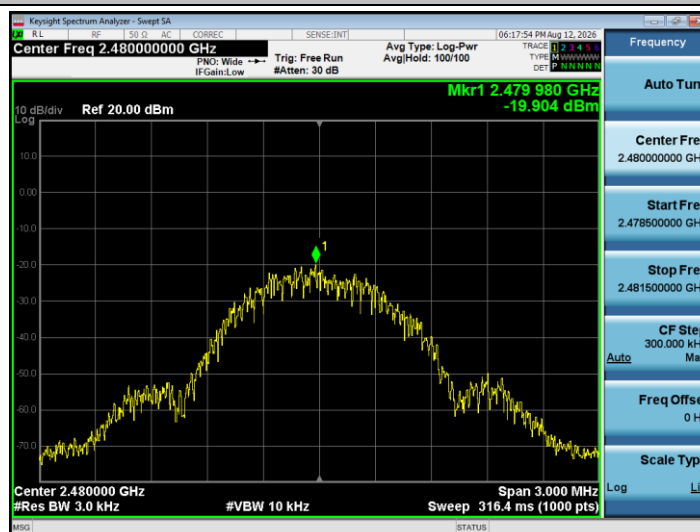
Test Graphs



BLE_1M_Ant1_2402

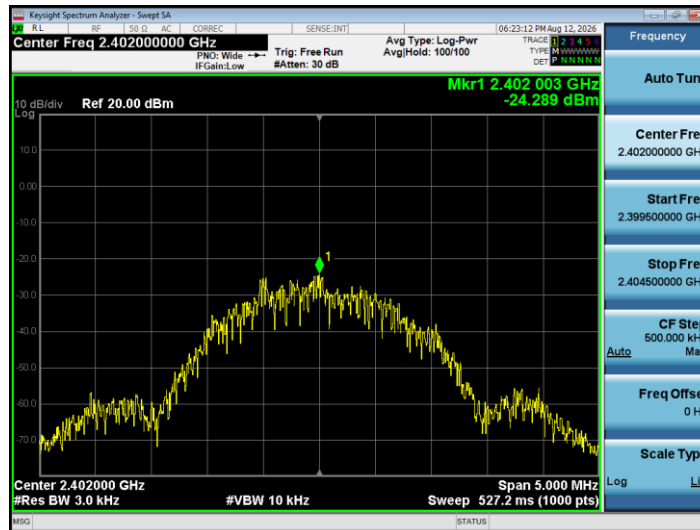


BLE_1M_Ant1_2440

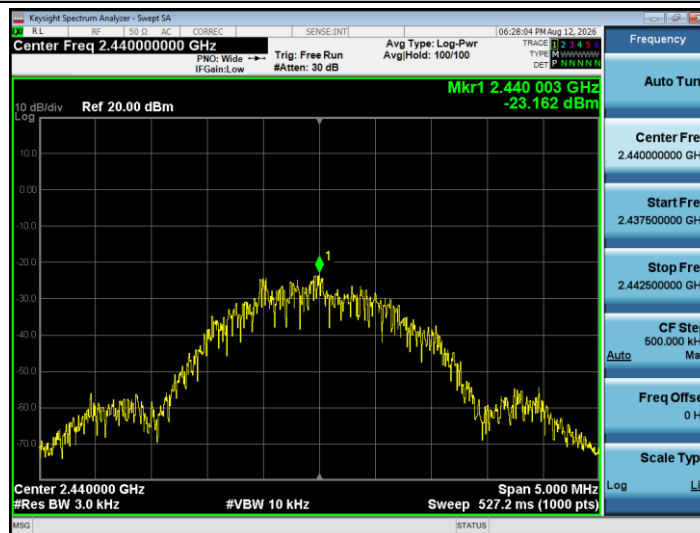


BLE_1M_Ant1_2480

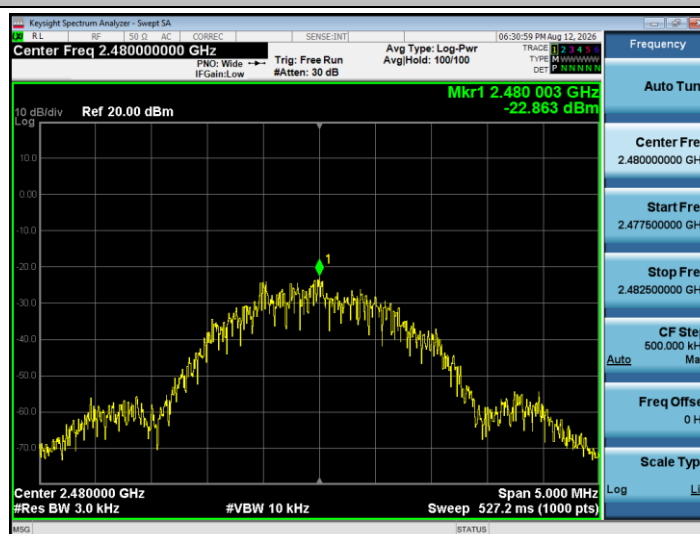




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix E: Band edge measurements

Test Result

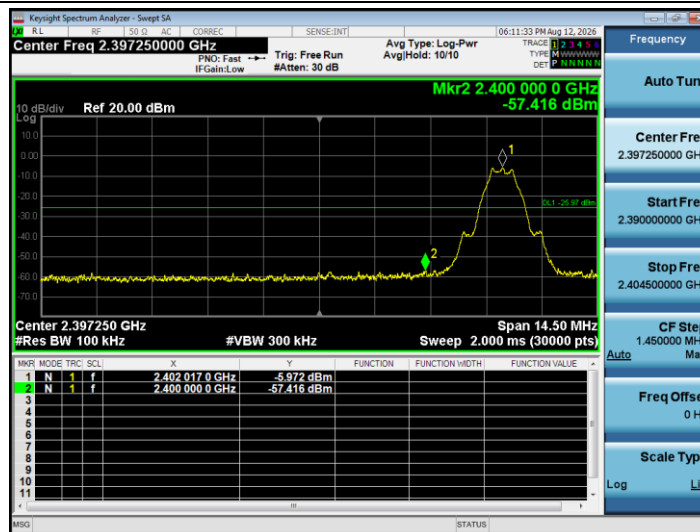
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.97	-57.42	≤ -25.97	PASS
	Ant1	High	2480	-4.86	-58.30	≤ -24.86	PASS
BLE_2M	Ant1	Low	2402	-6.05	-39.15	≤ -26.05	PASS
	Ant1	High	2480	-4.92	-61.15	≤ -24.92	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

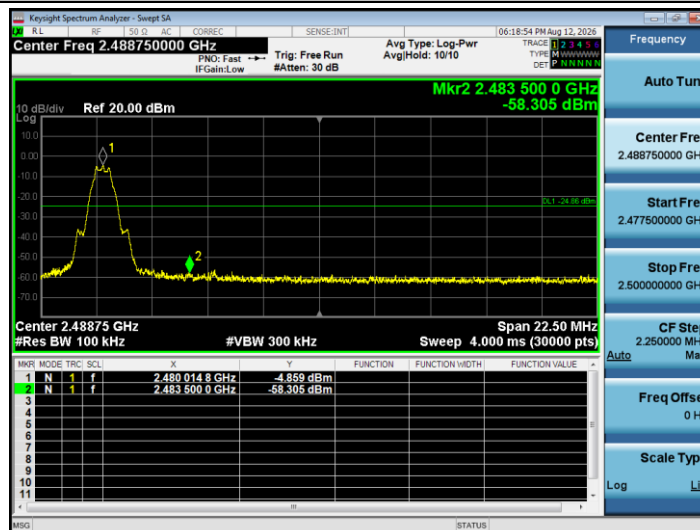




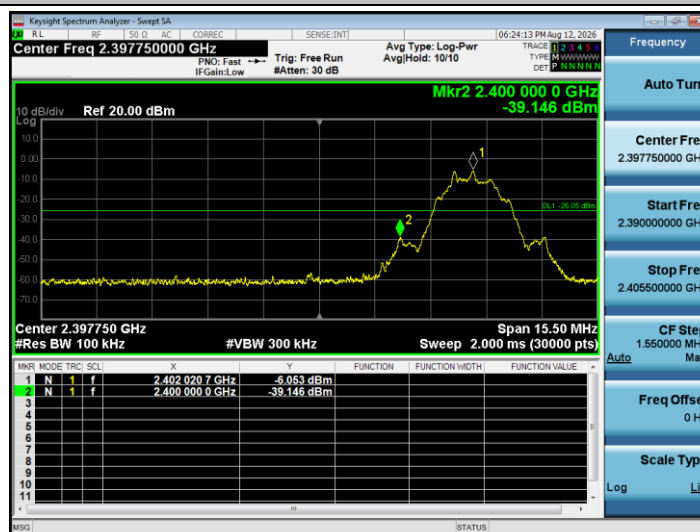
Test Graphs



BLE_1M_Ant1_2402_Low

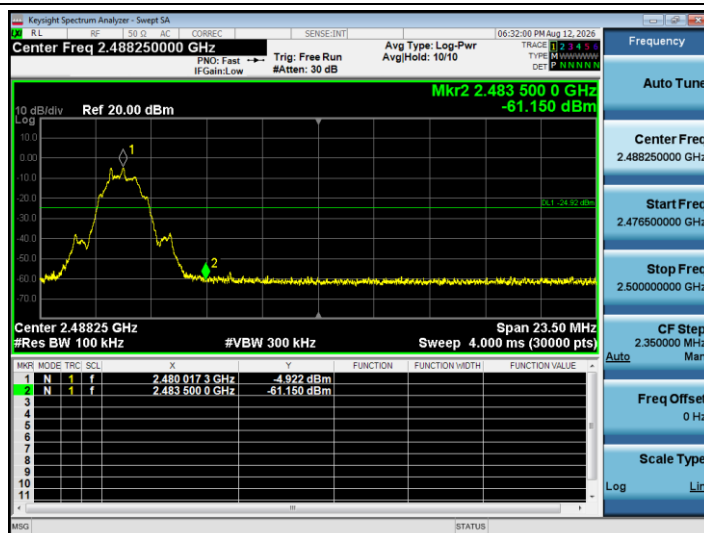


BLE_1M_Ant1_2480_High



BLE_2M_Ant1_2402_Low





BLE_2M_Ant1_2480_High





Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-6.10	-6.10	---	PASS
	Ant1	2402	30~1000	-6.10	-59.37	≤-26.10	PASS
	Ant1	2402	1000~26500	-6.10	-47.59	≤-26.10	PASS
	Ant1	2440	0~Reference	-5.29	-5.29	---	PASS
	Ant1	2440	30~1000	-5.29	-59.36	≤-25.29	PASS
	Ant1	2440	1000~26500	-5.29	-47.65	≤-25.29	PASS
	Ant1	2480	0~Reference	-4.96	-4.96	---	PASS
	Ant1	2480	30~1000	-4.96	-59.20	≤-24.96	PASS
	Ant1	2480	1000~26500	-4.96	-46.57	≤-24.96	PASS
BLE_2M	Ant1	2402	0~Reference	-6.19	-6.19	---	PASS
	Ant1	2402	30~1000	-6.19	-58.80	≤-26.19	PASS
	Ant1	2402	1000~26500	-6.19	-48.24	≤-26.19	PASS
	Ant1	2440	0~Reference	-5.31	-5.31	---	PASS
	Ant1	2440	30~1000	-5.31	-59.17	≤-25.31	PASS
	Ant1	2440	1000~26500	-5.31	-47.38	≤-25.31	PASS
	Ant1	2480	0~Reference	-5.05	-5.05	---	PASS
	Ant1	2480	30~1000	-5.05	-58.88	≤-25.05	PASS
	Ant1	2480	1000~26500	-5.05	-48.09	≤-25.05	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

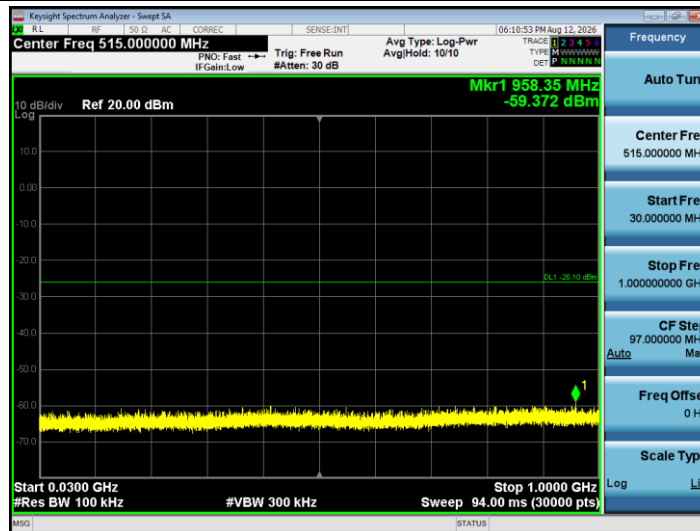




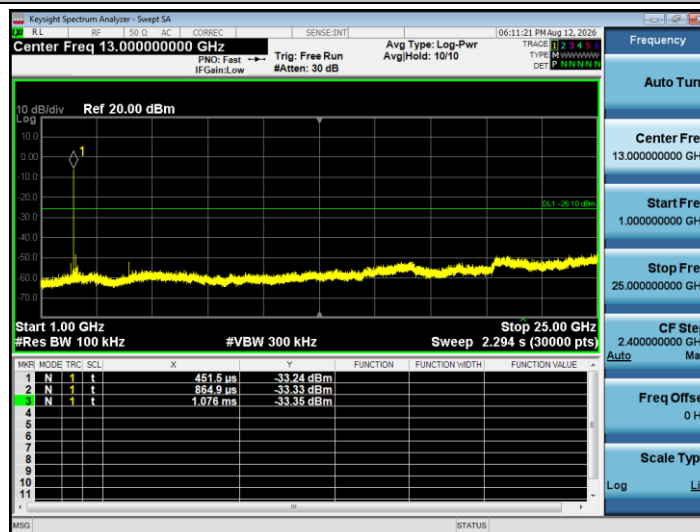
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2402

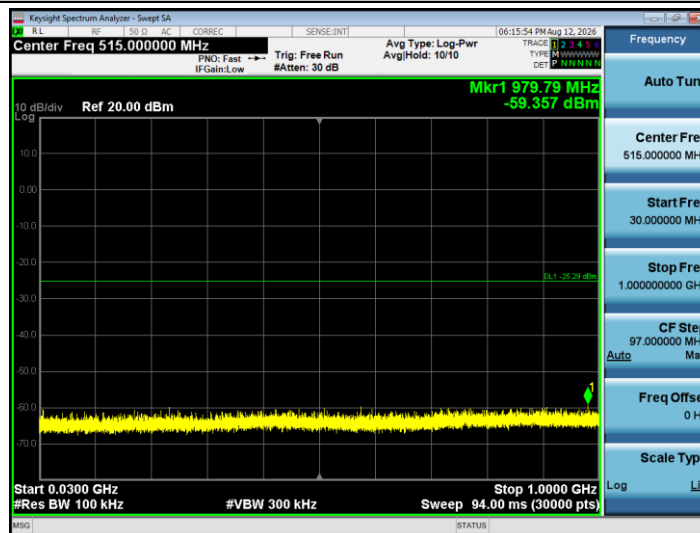


BLE_1M_Ant1_2402

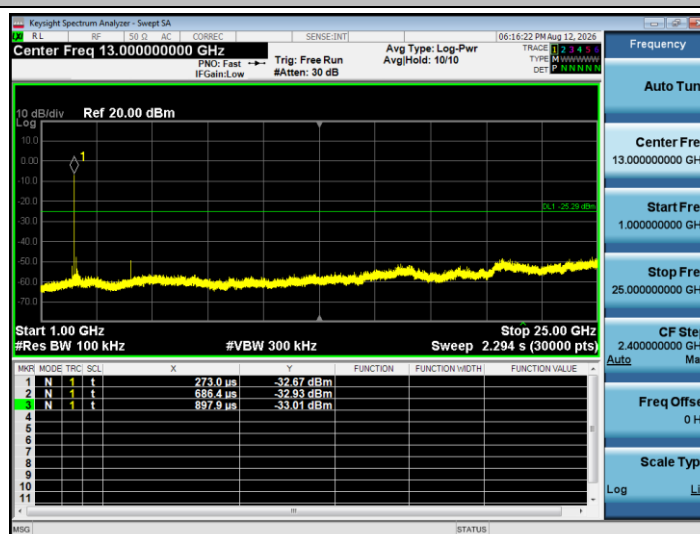




BLE_1M_Ant1_2440



BLE_1M_Ant1_2440

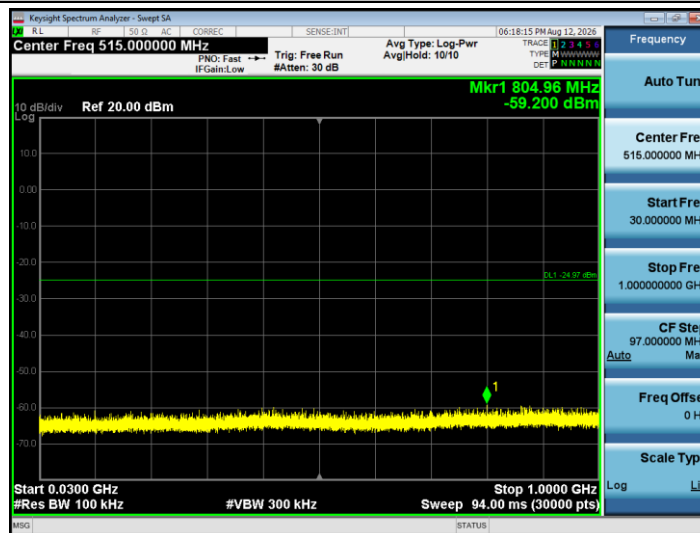


BLE_1M_Ant1_2440

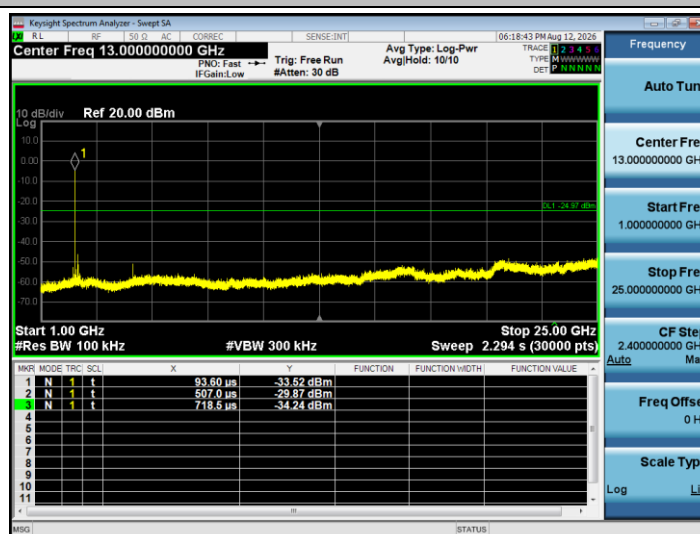




BLE_1M_Ant1_2480

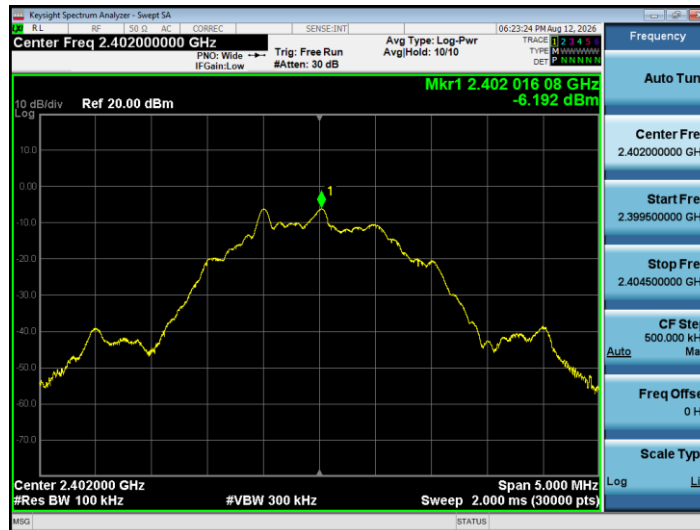


BLE_1M_Ant1_2480

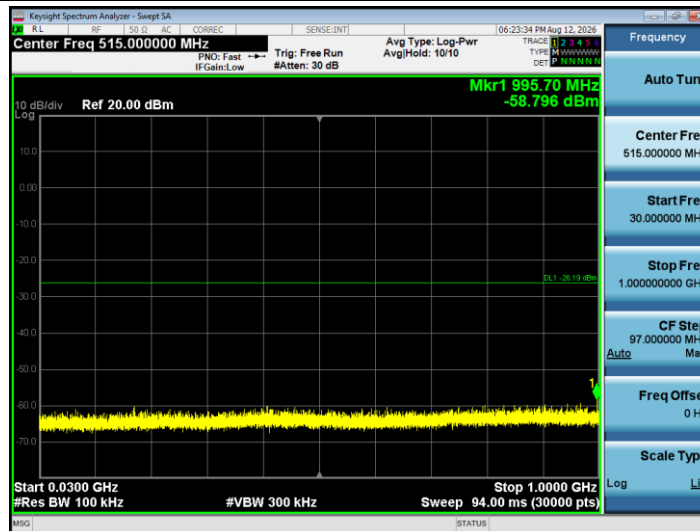


BLE_1M_Ant1_2480

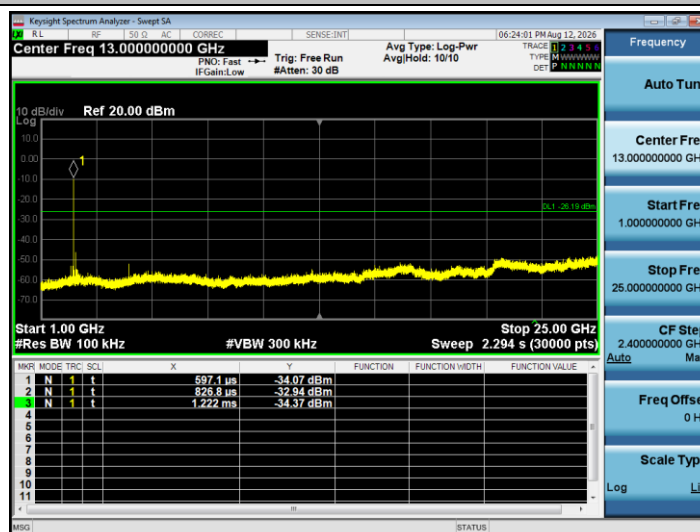




BLE_2M_Ant1_2402

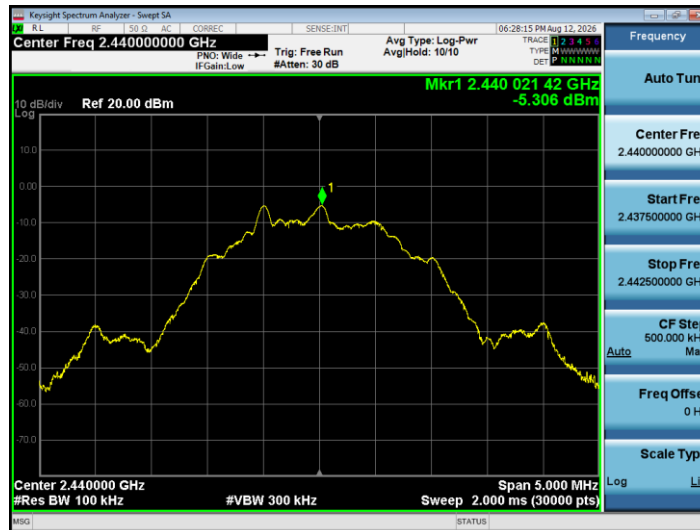


BLE_2M_Ant1_2402

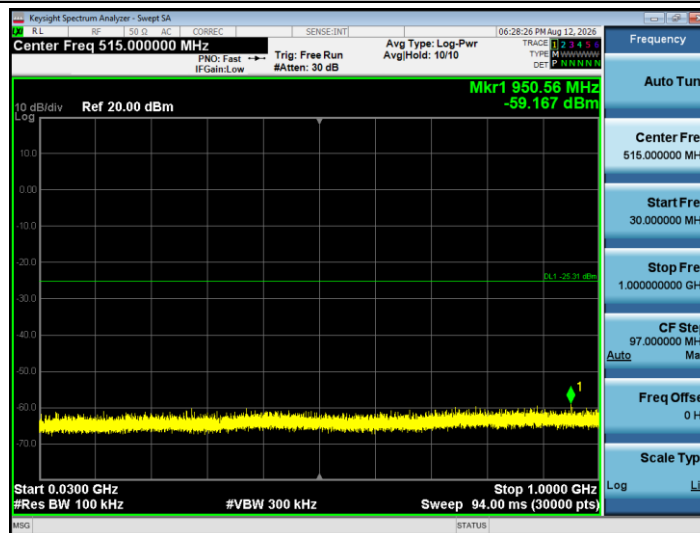


BLE_2M_Ant1_2402

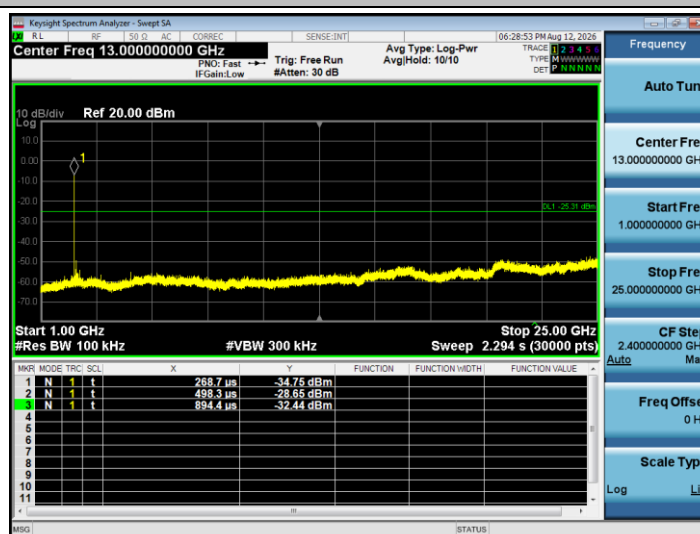




BLE_2M_Ant1_2440

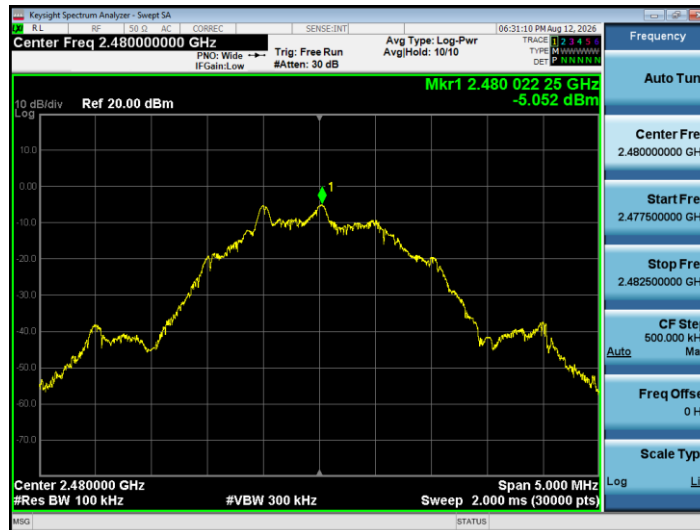


BLE_2M_Ant1_2440

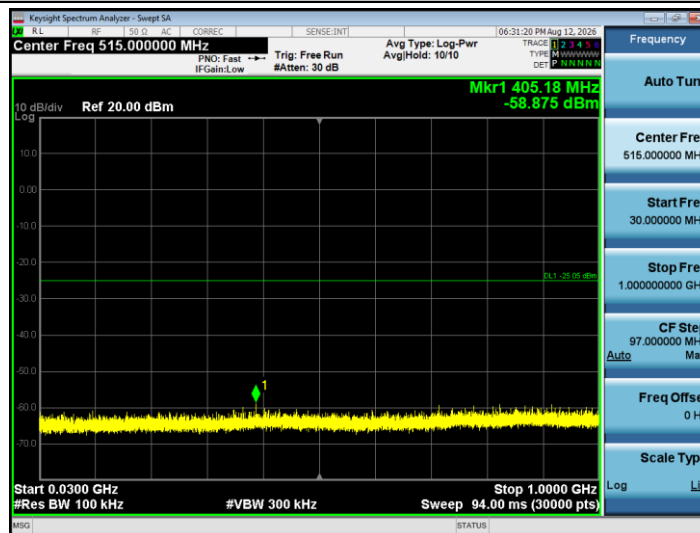


BLE_2M_Ant1_2440

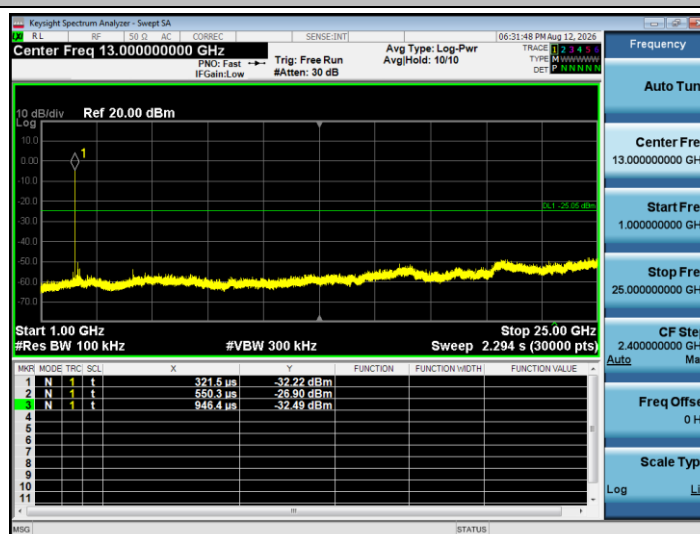




BLE_2M_Ant1_2480



BLE_2M_Ant1_2480



BLE_2M_Ant1_2480







Appendix G: Duty Cycle

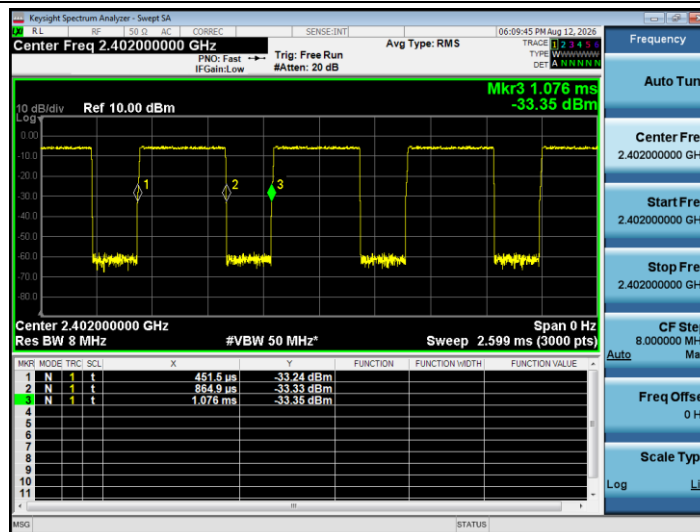
Test Result

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	66.00	1.80
	Ant1	2440	66.00	1.80
	Ant1	2480	66.00	1.80
BLE_2M	Ant1	2402	37.00	4.32
	Ant1	2440	37.00	4.32
	Ant1	2480	37.00	4.32

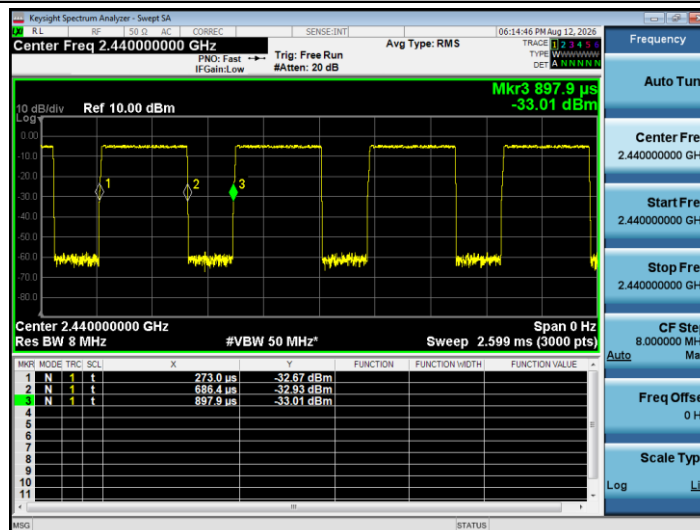




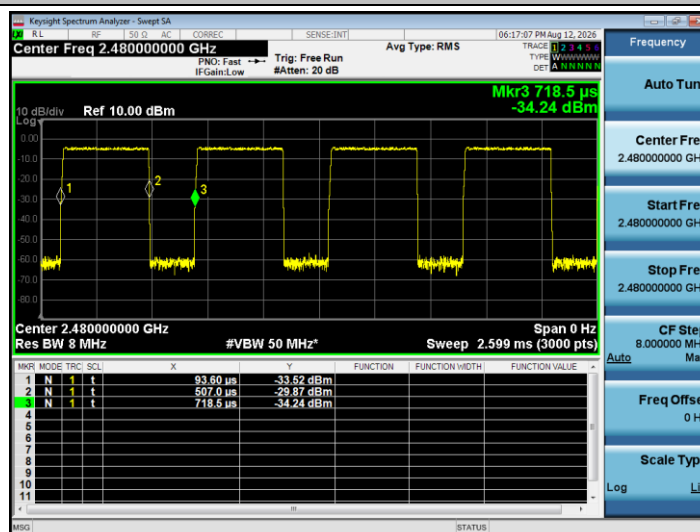
Test Graphs



BLE_1M_Ant1_2402

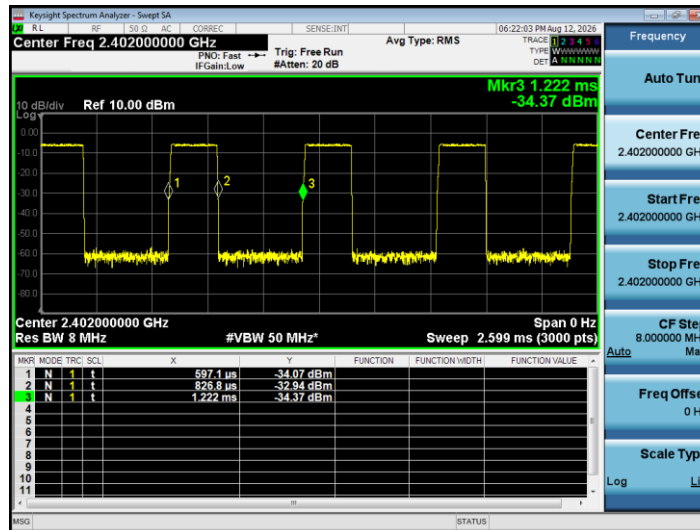


BLE_1M_Ant1_2440

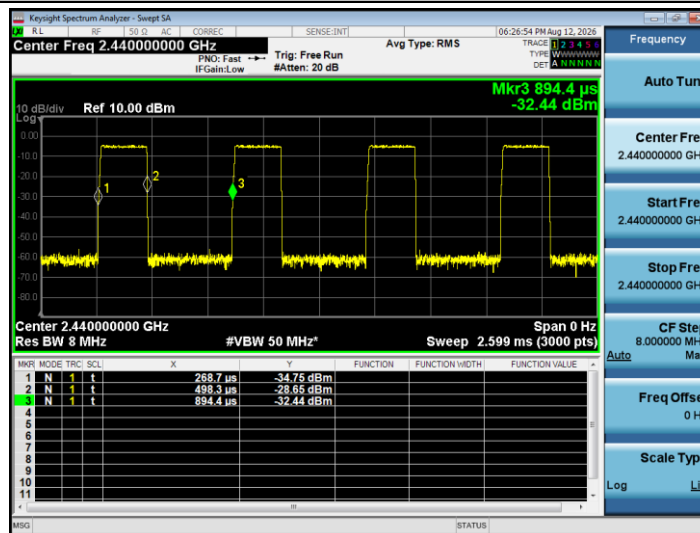


BLE_1M_Ant1_2480

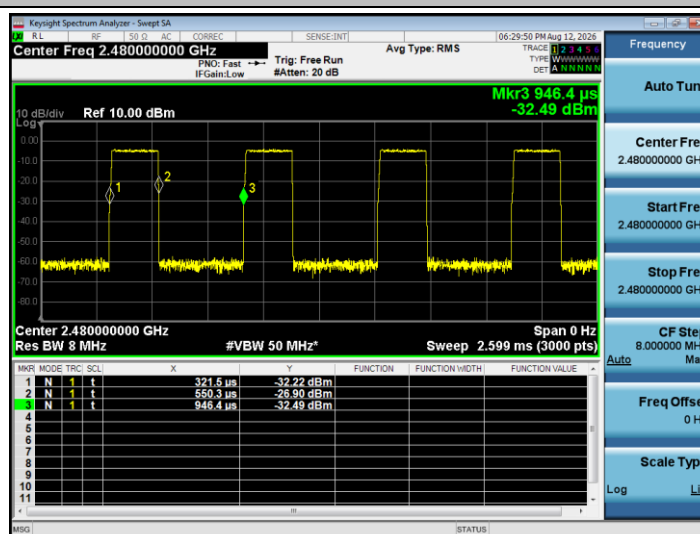




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

