Appendix Test Data

Report No.:	1812C40046212501	Test Sample No.:	1-2-2
Start Test Date:	2024.09.04	Finish Test Date:	2024.09.04
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.9℃	Relative Humidity:	57%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.676	2402.372	0.5	PASS
BLE_1M	Ant1	2440	0.680	2439.684	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.664	2480.376	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.440	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.472	2440.580	0.5	PASS
BLE_2M	Ant1	2480	1.164	2479.440	2480.604	0.5	PASS

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2440-PASS

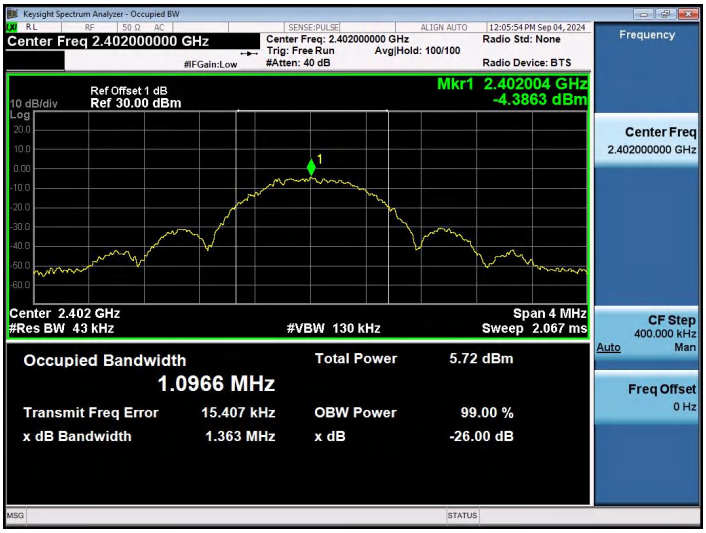
BLE_2M-Ant1-2480-PASS

Appendix B: 99% Occupied Bandwidth

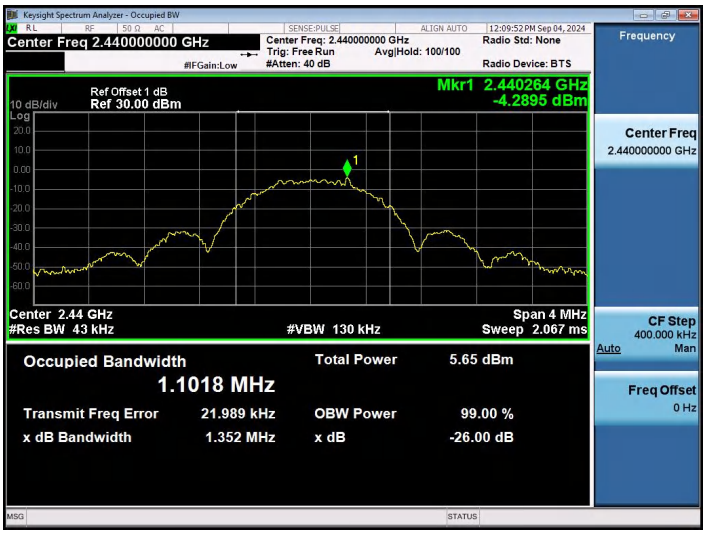
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0966	2401.4671	2402.5637	---	---
BLE_1M	Ant1	2440	1.1018	2439.4711	2440.5729	---	---
BLE_1M	Ant1	2480	1.0868	2479.4755	2480.5623	---	---
BLE_2M	Ant1	2402	2.0850	2400.9804	2403.0654	---	---
BLE_2M	Ant1	2440	2.0756	2438.9848	2441.0604	---	---
BLE_2M	Ant1	2480	2.0862	2478.9821	2481.0683	---	---

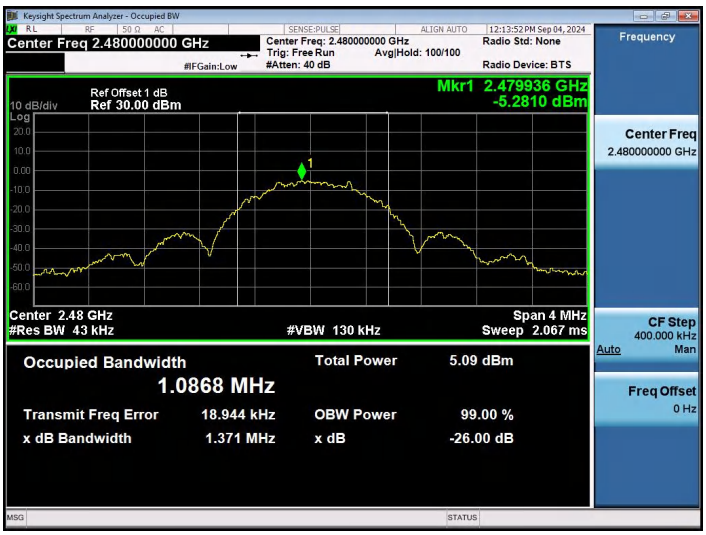
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

BLE_2M-Ant1-2402

BLE_2M-Ant1-2440

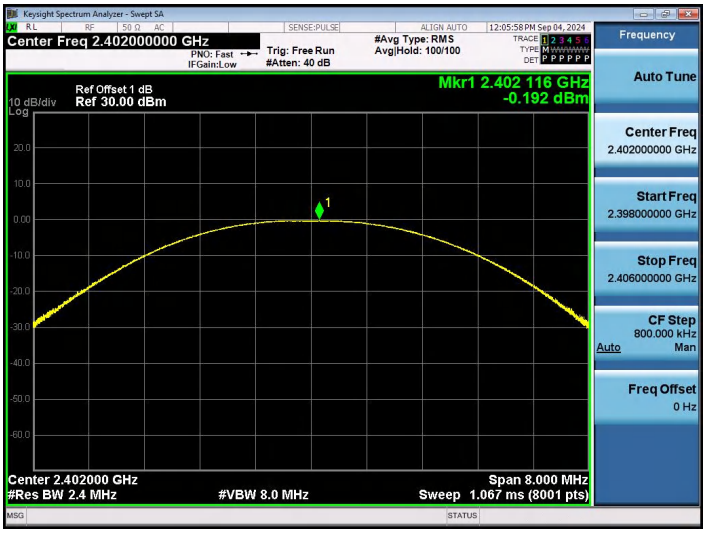
BLE_2M-Ant1-2480

Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.19	≤30	PASS
BLE_1M	Ant1	2440	-0.57	≤30	PASS
BLE_1M	Ant1	2480	-1.26	≤30	PASS
BLE_2M	Ant1	2402	0.01	≤30	PASS
BLE_2M	Ant1	2440	-0.43	≤30	PASS
BLE_2M	Ant1	2480	-1.21	≤30	PASS

Test Graphs Peak

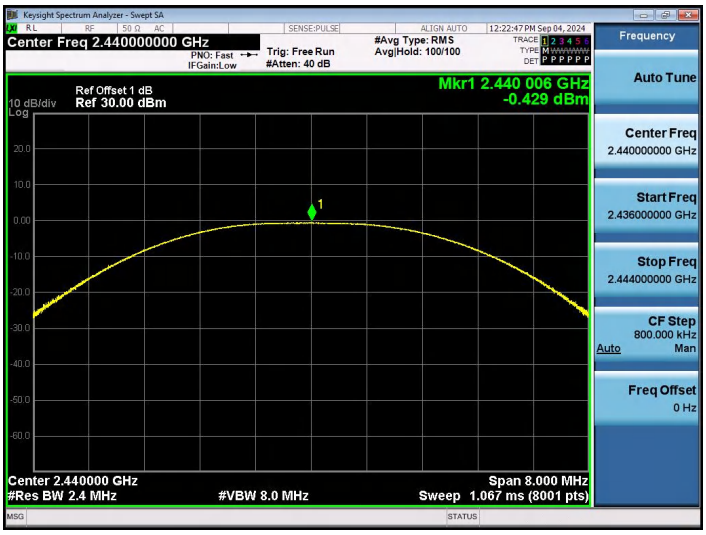


BLE_1M-Ant1-2402-PASS

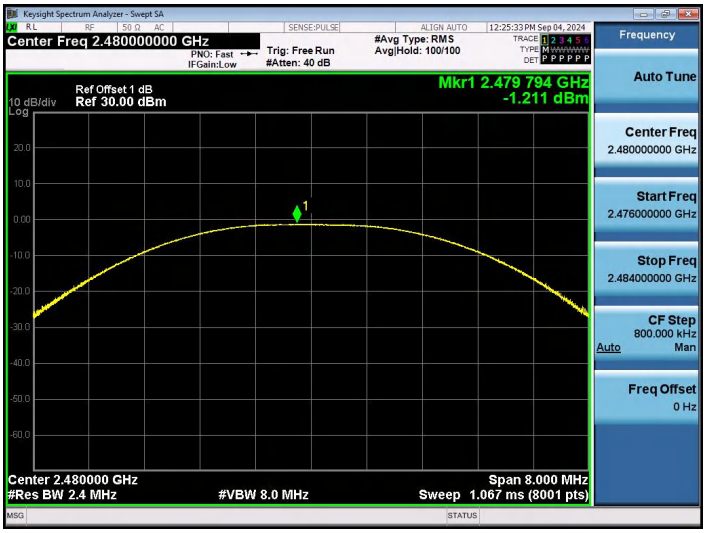
BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



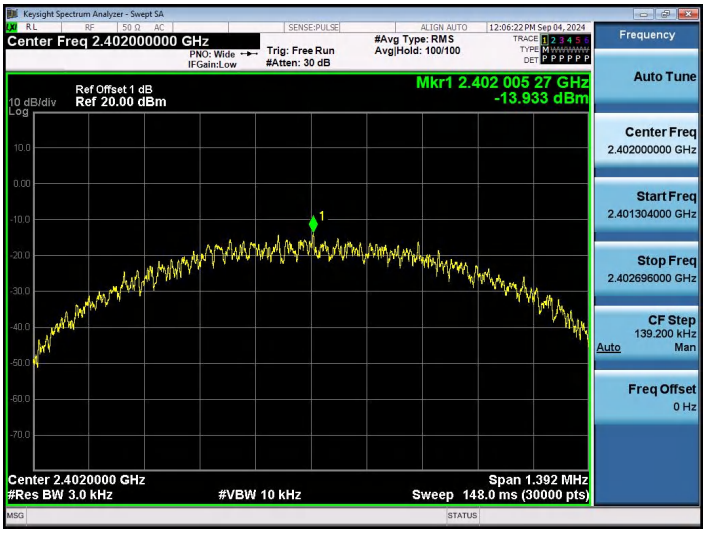
BLE_2M-Ant1-2480-PASS

Appendix D: Maximum power spectral density

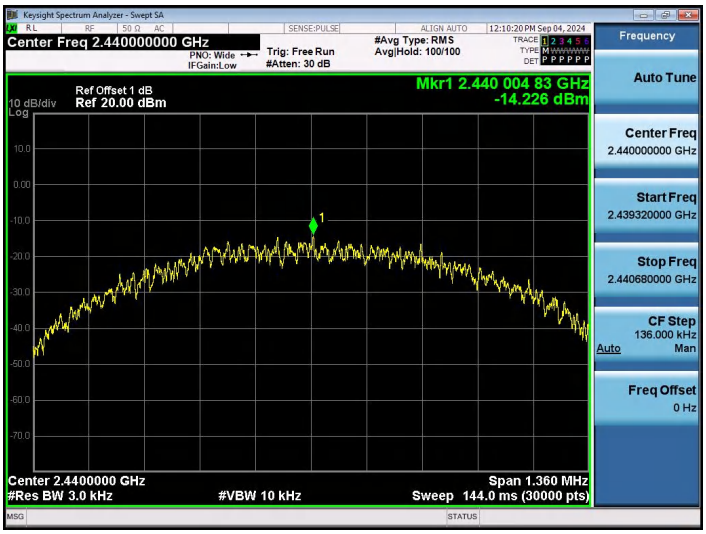
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.93	≤8.00	PASS
BLE_1M	Ant1	2440	-14.23	≤8.00	PASS
BLE_1M	Ant1	2480	-14.94	≤8.00	PASS
BLE_2M	Ant1	2402	-15.81	≤8.00	PASS
BLE_2M	Ant1	2440	-16.38	≤8.00	PASS
BLE_2M	Ant1	2480	-17.05	≤8.00	PASS

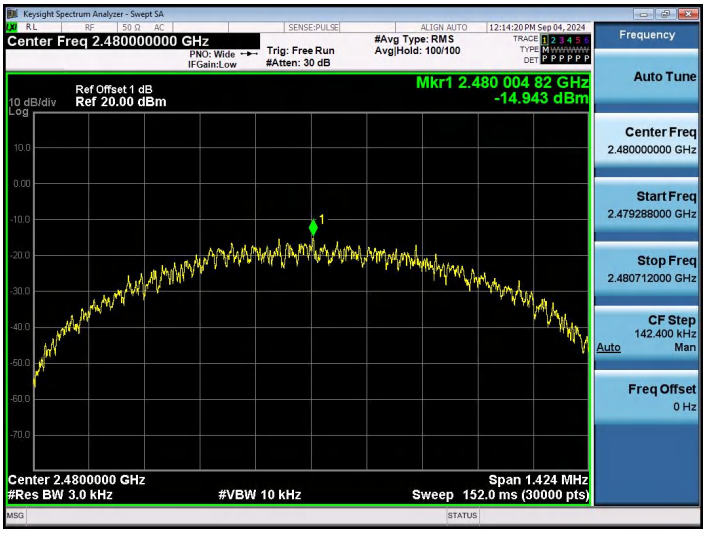
Test Graphs



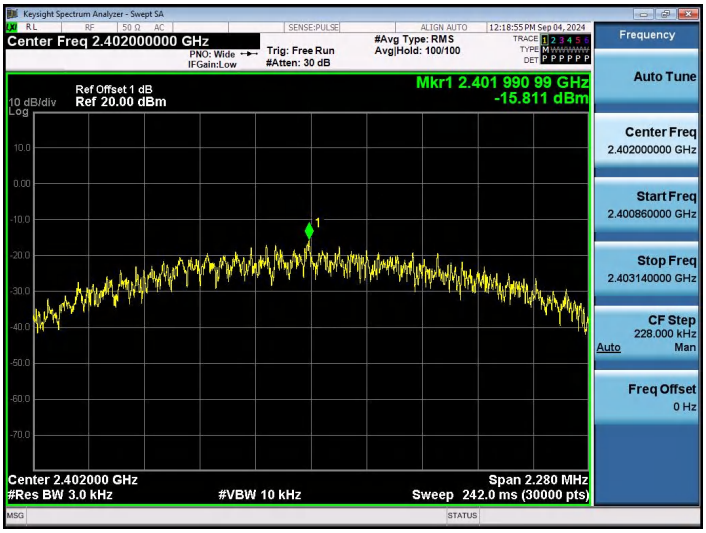
BLE_1M-Ant1-2402-PASS



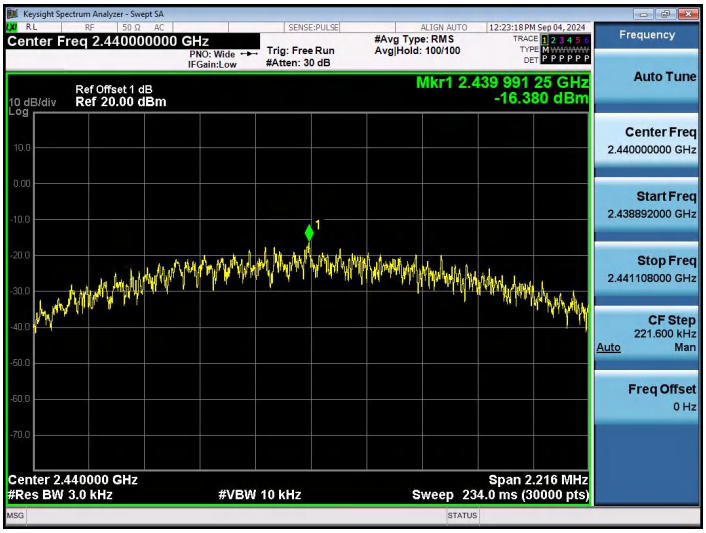
BLE_1M-Ant1-2440-PASS



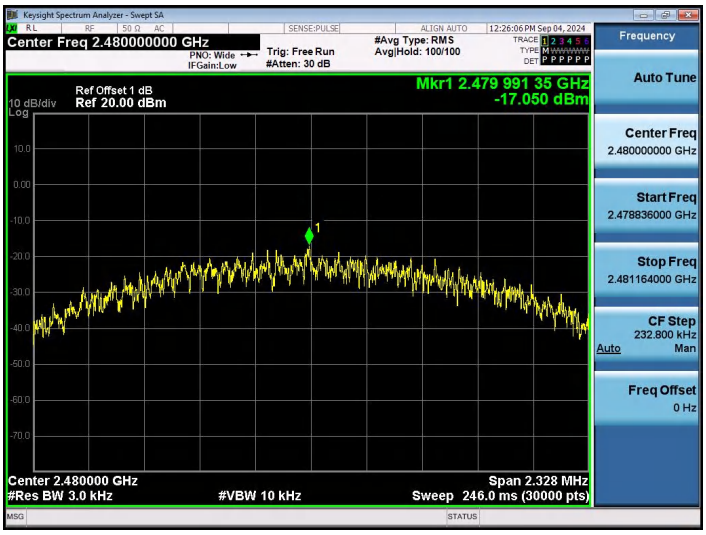
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



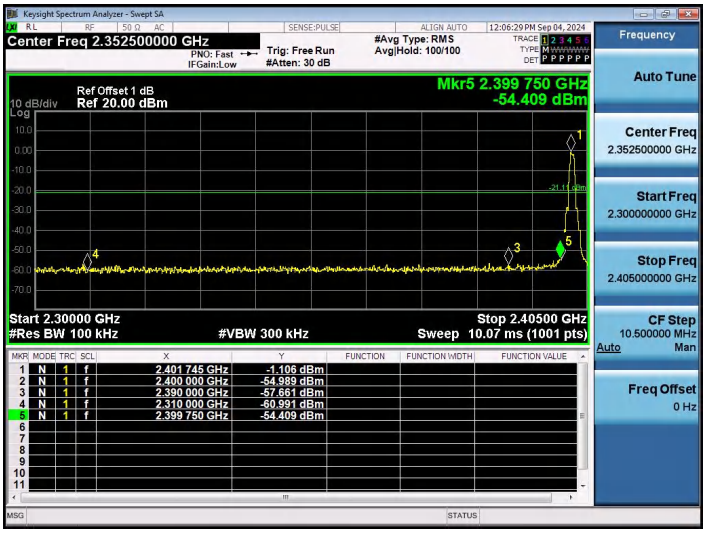
BLE_2M-Ant1-2480-PASS

Appendix E: Band edge measurements

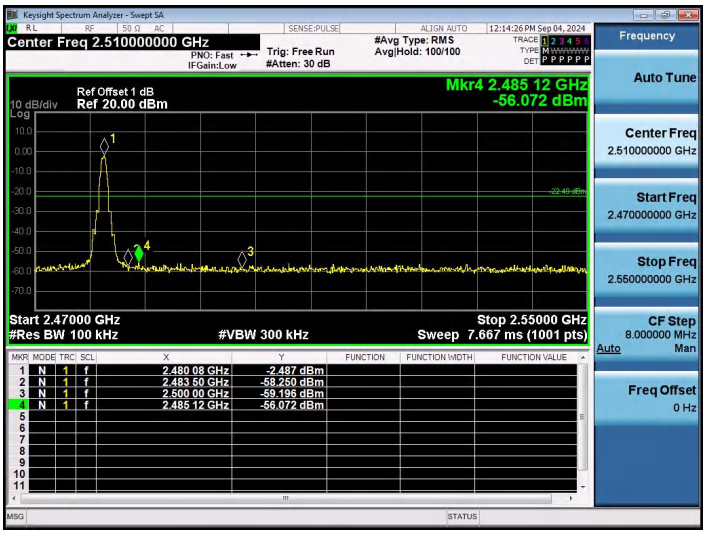
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.11	-54.41	≤-21.11	PASS
BLE_1M	Ant1	High	2480	-2.49	-56.07	≤-22.49	PASS
BLE_2M	Ant1	Low	2402	-3.16	-52	≤-23.16	PASS
BLE_2M	Ant1	High	2480	-2.85	-55.78	≤-22.85	PASS

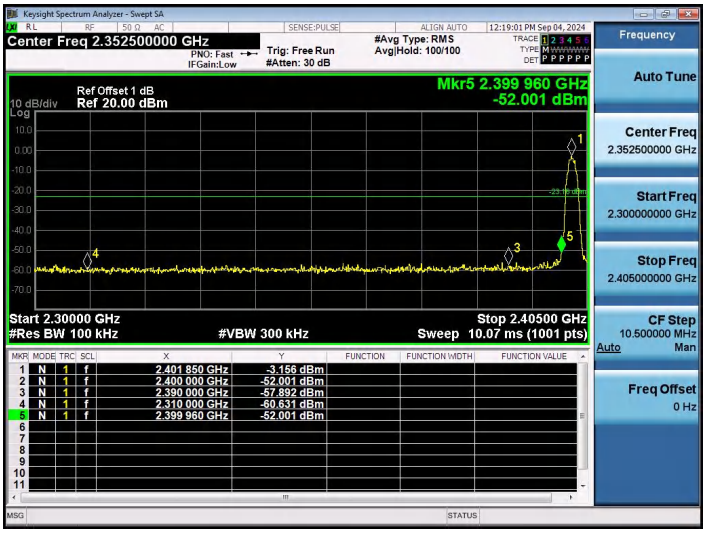
Test Graphs



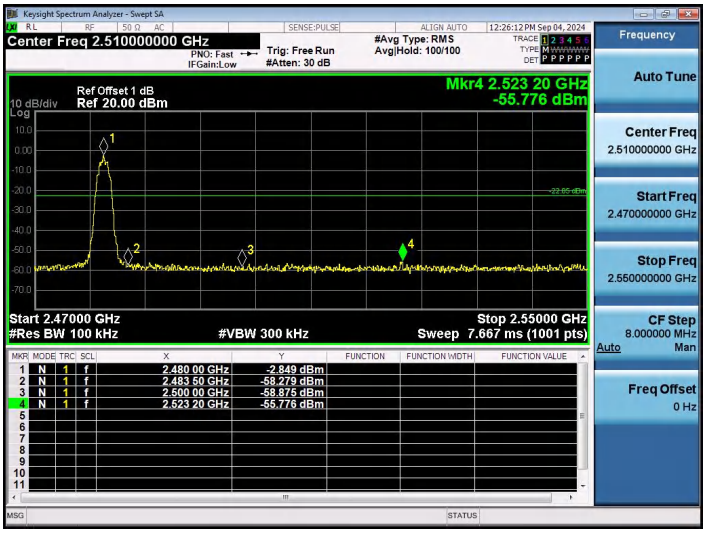
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

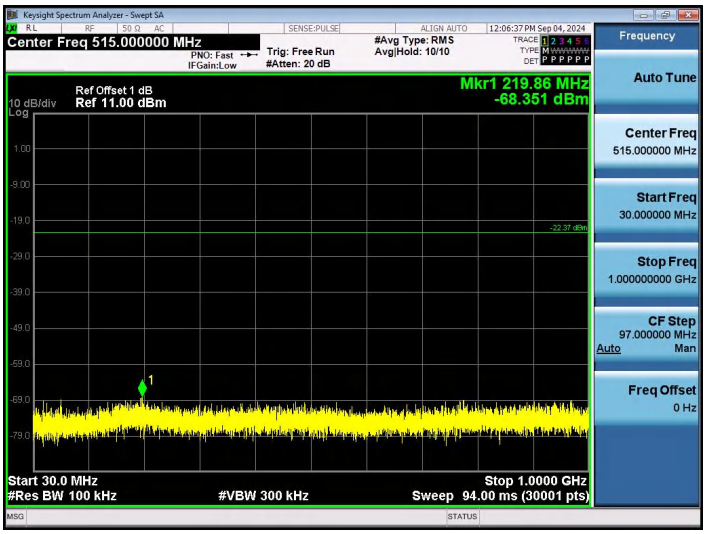
Appendix F: Conducted Spurious Emission

Test Result

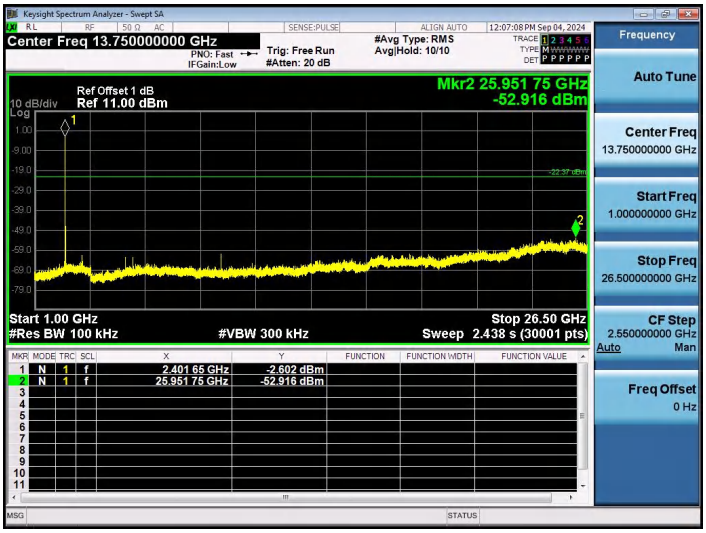
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.37	-2.37	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.37	-68.35	≤-22.37	PASS
BLE_1M	Ant1	2402	1000~26500	-2.37	-52.92	≤-22.37	PASS
BLE_1M	Ant1	2440	0~Reference	-2.74	-2.74	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.74	-67.64	≤-22.74	PASS
BLE_1M	Ant1	2440	1000~26500	-2.74	-53.1	≤-22.74	PASS
BLE_1M	Ant1	2480	0~Reference	-3.04	-3.04	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.04	-68.04	≤-23.04	PASS
BLE_1M	Ant1	2480	1000~26500	-3.04	-52.7	≤-23.04	PASS
BLE_2M	Ant1	2402	0~Reference	-2.95	-2.95	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.95	-68.35	≤-22.95	PASS
BLE_2M	Ant1	2402	1000~26500	-2.95	-52.79	≤-22.95	PASS
BLE_2M	Ant1	2440	0~Reference	-5.32	-5.32	---	PASS
BLE_2M	Ant1	2440	30~1000	-5.32	-67.73	≤-25.32	PASS
BLE_2M	Ant1	2440	1000~26500	-5.32	-52.41	≤-25.32	PASS
BLE_2M	Ant1	2480	0~Reference	-5.08	-5.08	---	PASS
BLE_2M	Ant1	2480	30~1000	-5.08	-68.48	≤-25.08	PASS
BLE_2M	Ant1	2480	1000~26500	-5.08	-49.4	≤-25.08	PASS

Test Graphs

BLE_1M-Ant1-2402-0~Reference-PASS

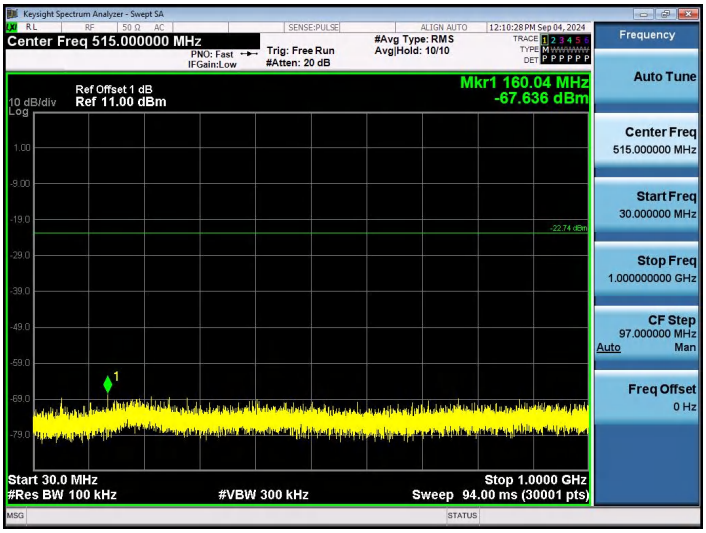


BLE_1M-Ant1-2402-30~1000-PASS

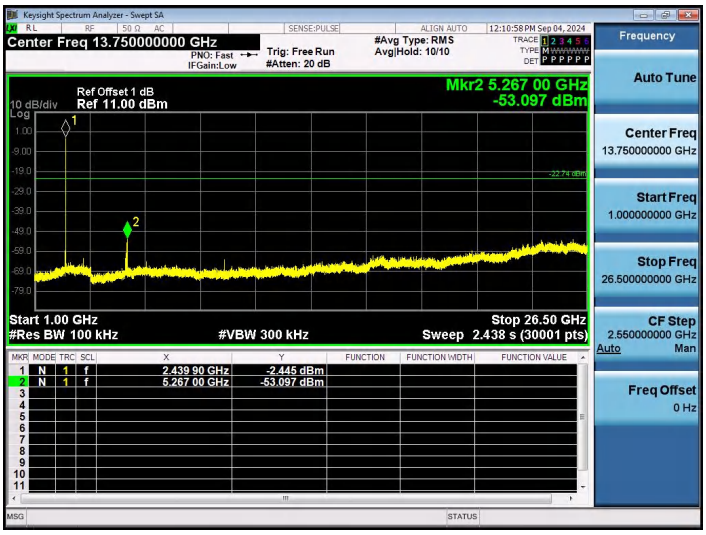


BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS

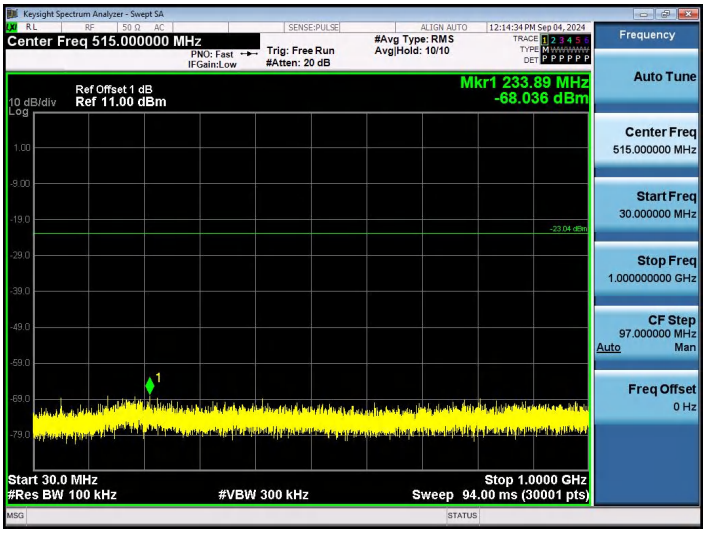


BLE_1M-Ant1-2440-30~1000-PASS

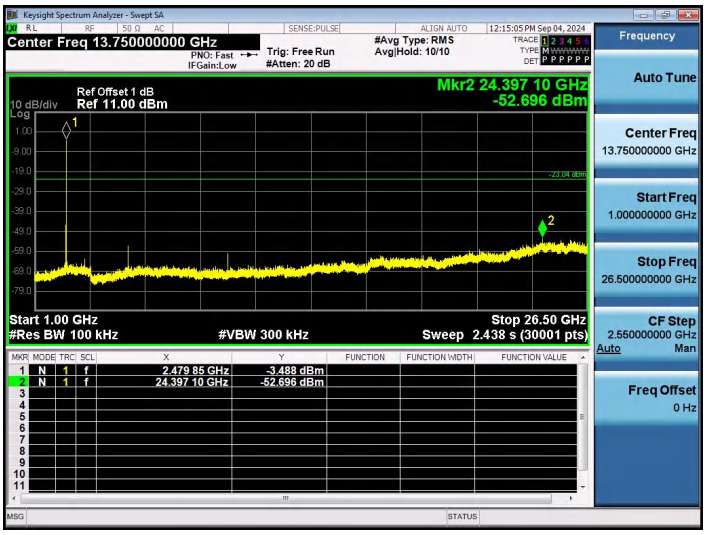


BLE_1M-Ant1-2440-1000~26500-PASS

BLE_1M-Ant1-2480-0~Reference-PASS

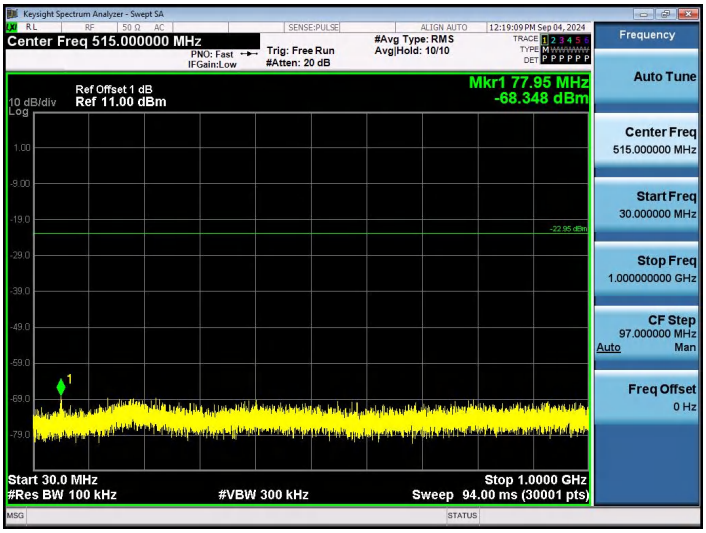


BLE_1M-Ant1-2480-30~1000-PASS

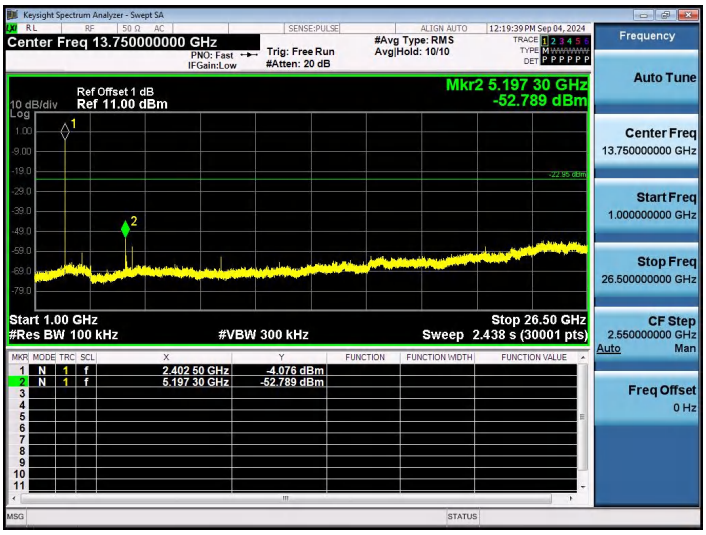


BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS

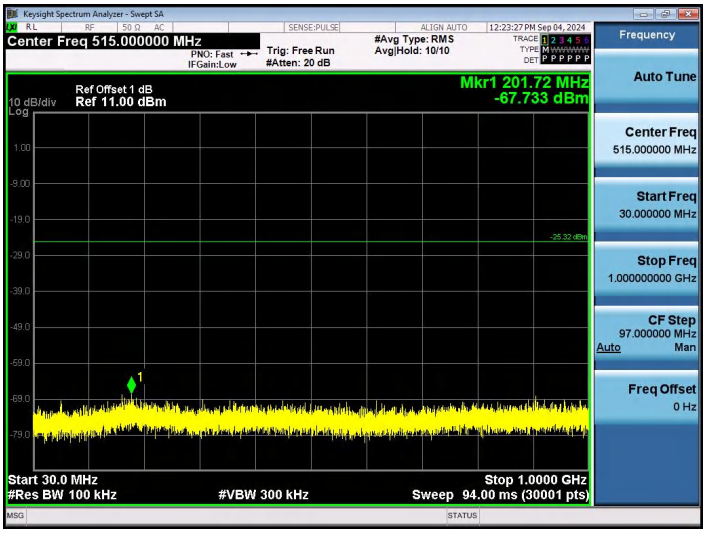


BLE_2M-Ant1-2402-30~1000-PASS

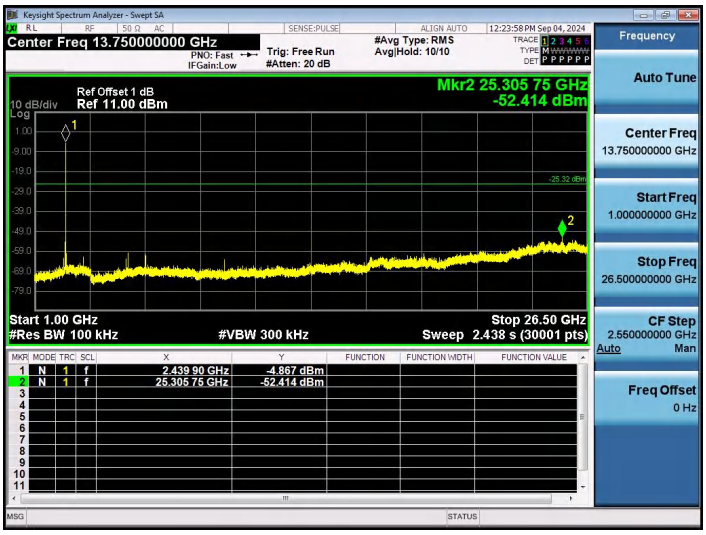


BLE_2M-Ant1-2402-1000~26500-PASS

BLE_2M-Ant1-2440-0~Reference-PASS

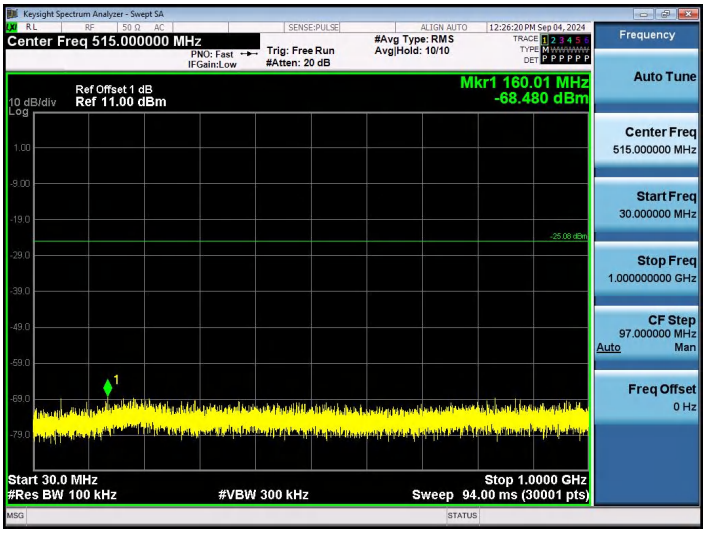


BLE_2M-Ant1-2440-30~1000-PASS

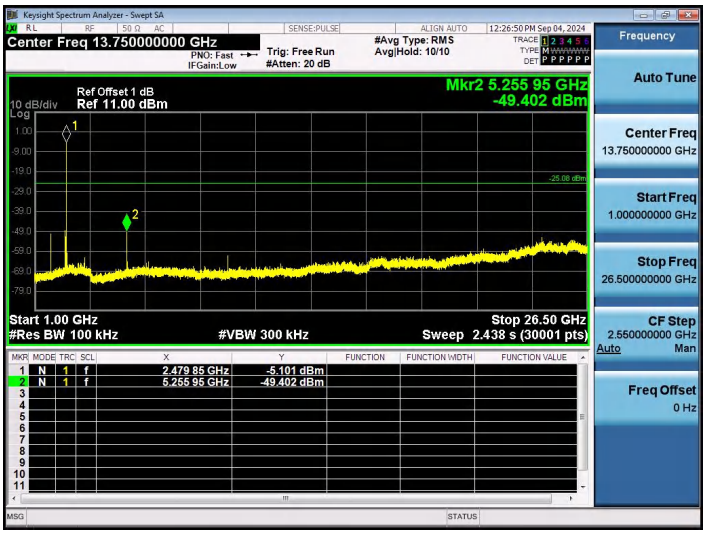


BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

---End---