

Appendix Test Data

Report No.:	1812C40028612501	Test Sample No.:	1-2-2
Start Test Date:	2024.08.23	Finish Test Date:	2024.08.23
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.6°C	Relative Humidity:	48%
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	0.684	2401.656	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.652	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.664	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.272	2401.372	2402.644	0.5	PASS
BLE_2M	Ant1	2440	1.132	2439.444	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.456	2480.568	0.5	PASS



Test Graphs



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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	1.0837	2401.4720	2402.5557	---	---
BLE_1M	Ant1	2440	1.1032	2439.4534	2440.5566	---	---
BLE_1M	Ant1	2480	1.1015	2479.4573	2480.5588	---	---
BLE_2M	Ant1	2402	2.0770	2400.9738	2403.0508	---	---
BLE_2M	Ant1	2440	2.0828	2438.9702	2441.0530	---	---
BLE_2M	Ant1	2480	2.0870	2478.9652	2481.0522	---	---

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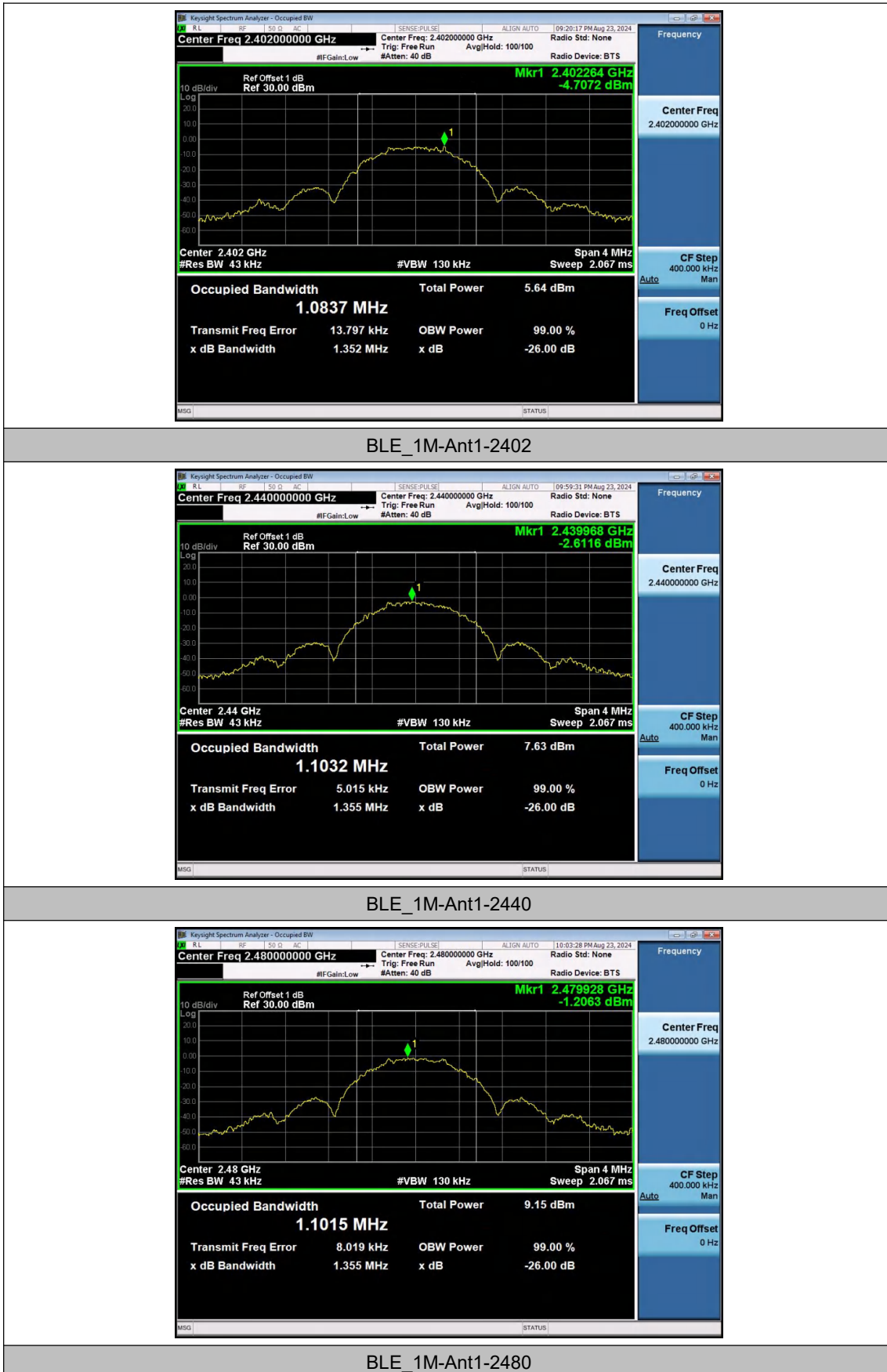
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Test Graphs



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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



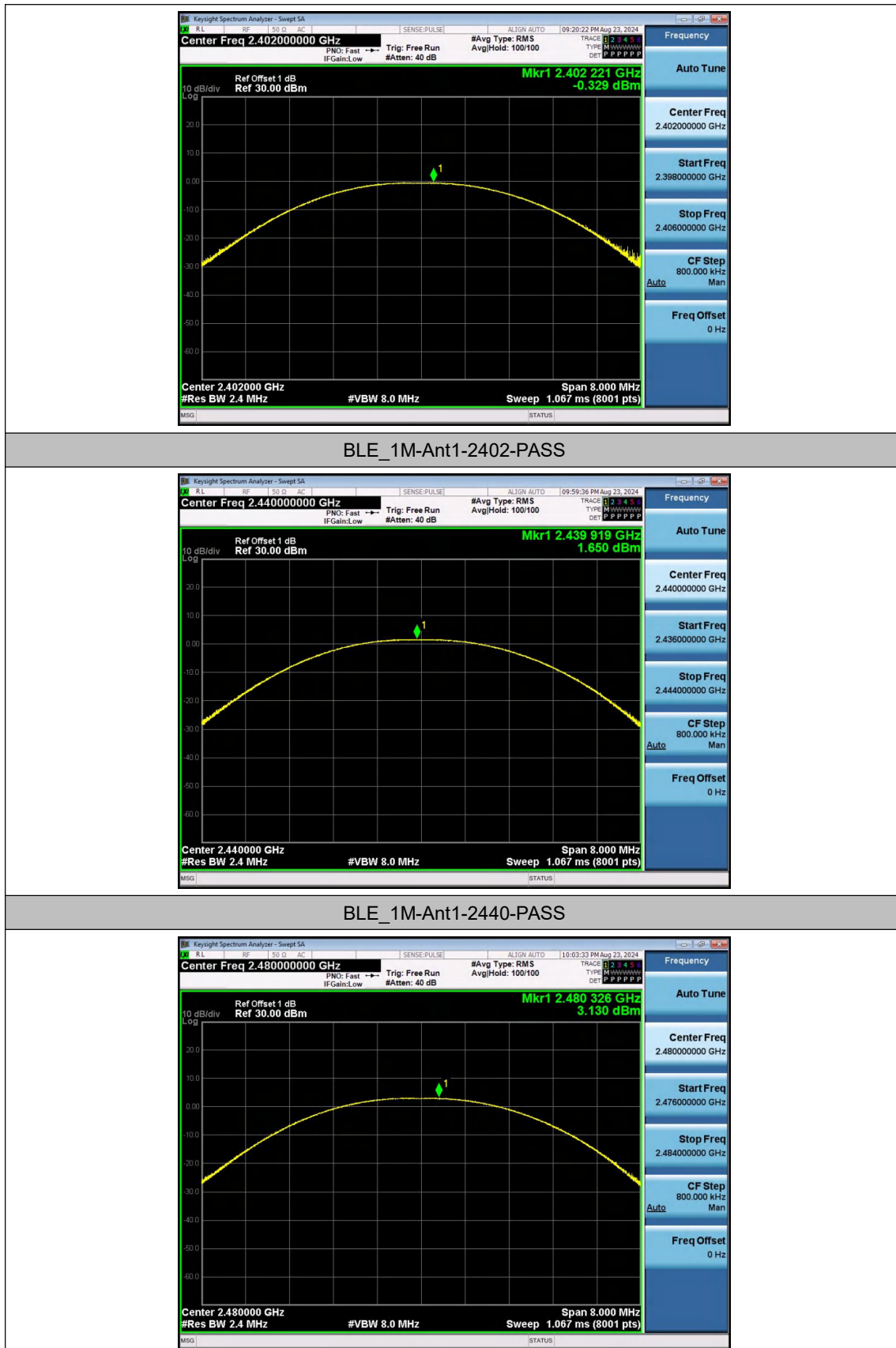
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.33	≤30	PASS
BLE_1M	Ant1	2440	1.65	≤30	PASS
BLE_1M	Ant1	2480	3.13	≤30	PASS
BLE_2M	Ant1	2402	-0.21	≤30	PASS
BLE_2M	Ant1	2440	1.83	≤30	PASS
BLE_2M	Ant1	2480	3.21	≤30	PASS



Test Graphs Peak

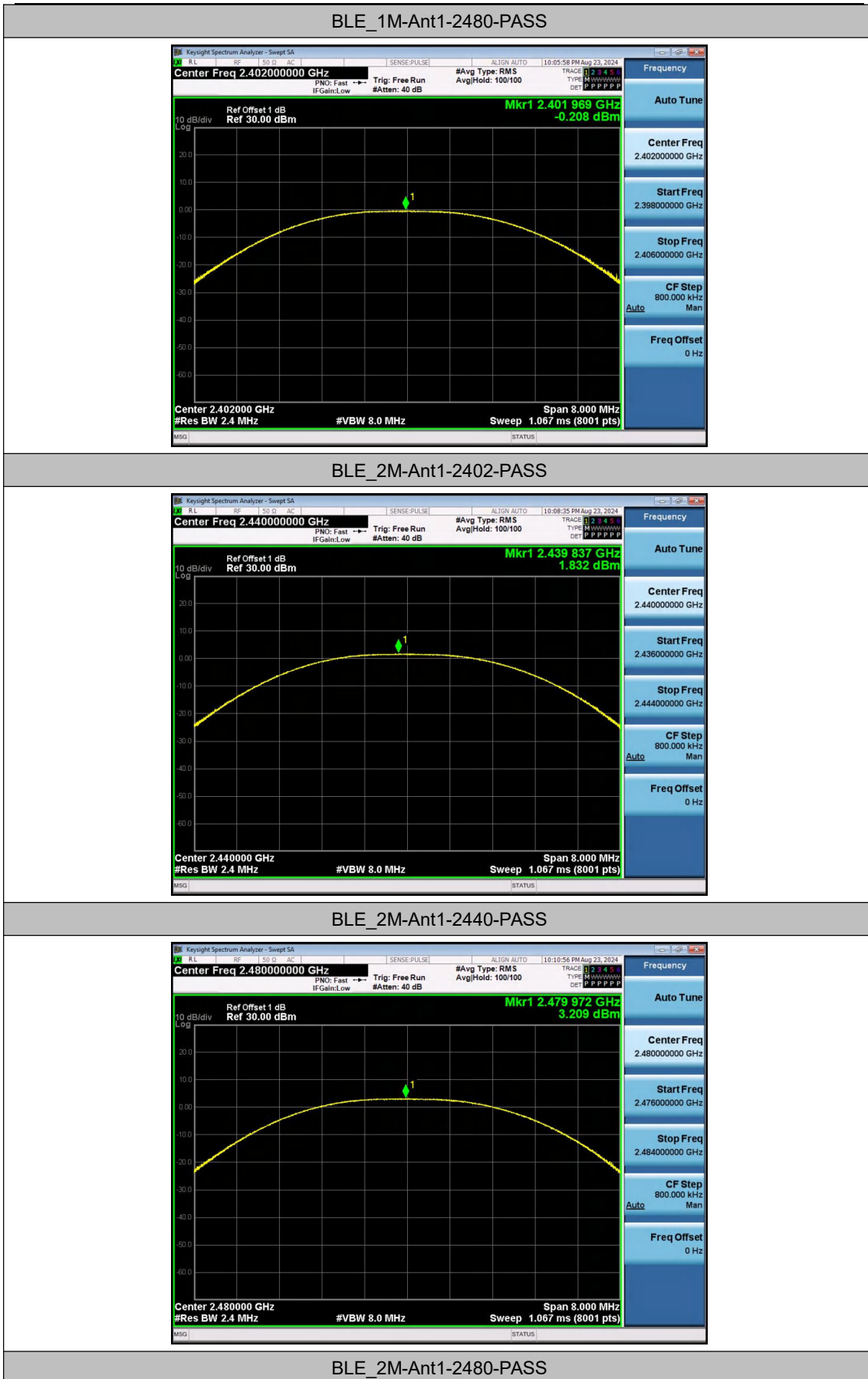


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.22	≤8.00	PASS
BLE_1M	Ant1	2440	-12.15	≤8.00	PASS
BLE_1M	Ant1	2480	-10.72	≤8.00	PASS
BLE_2M	Ant1	2402	-16.43	≤8.00	PASS
BLE_2M	Ant1	2440	-14.31	≤8.00	PASS
BLE_2M	Ant1	2480	-12.89	≤8.00	PASS

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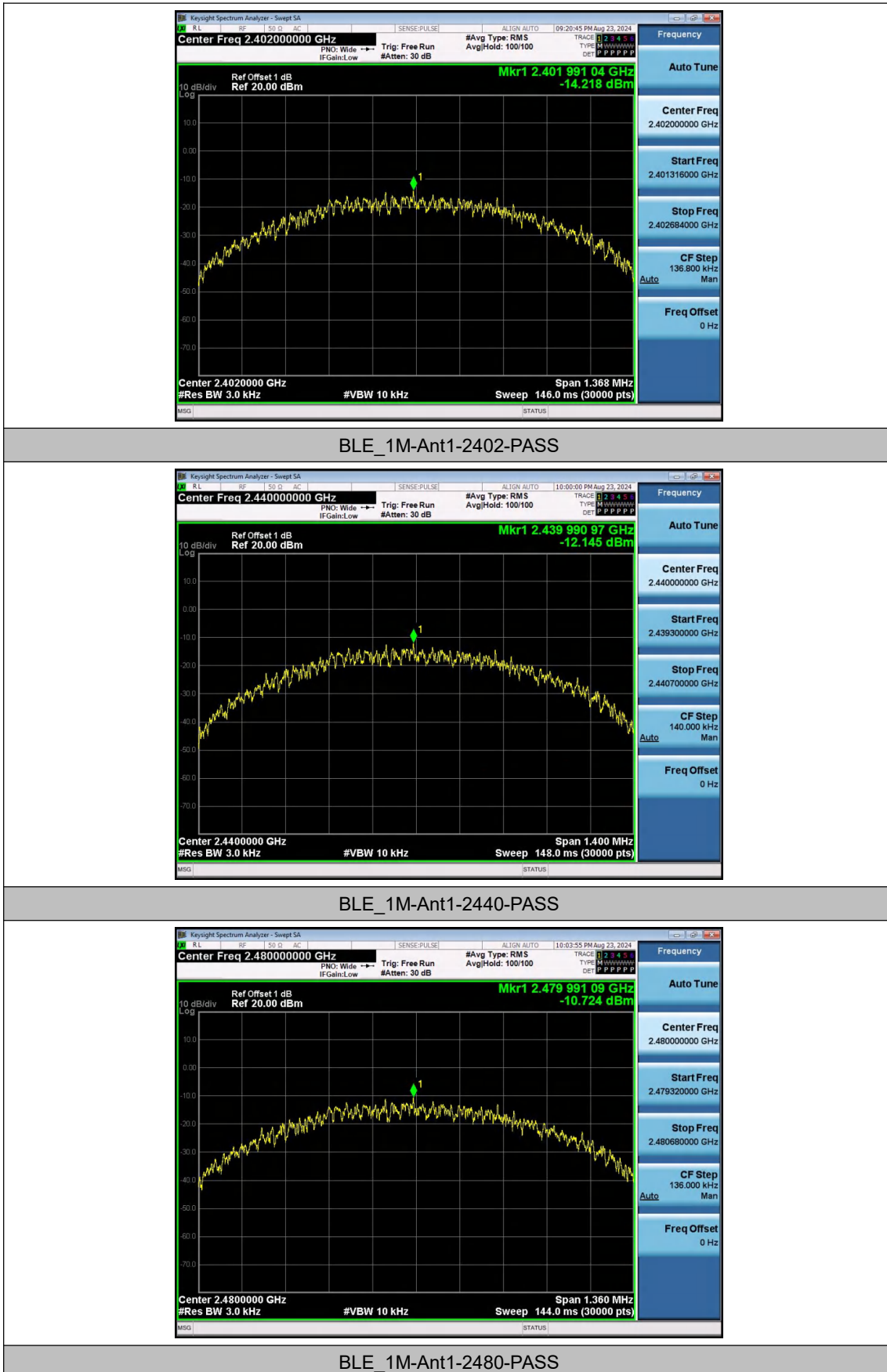
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Test Graphs

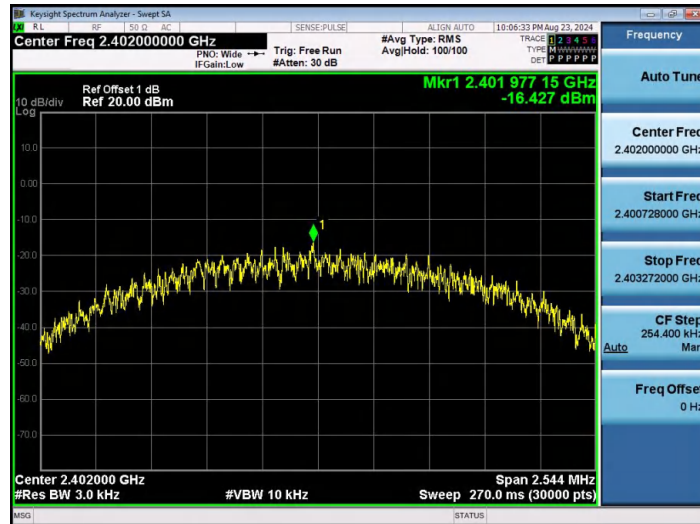


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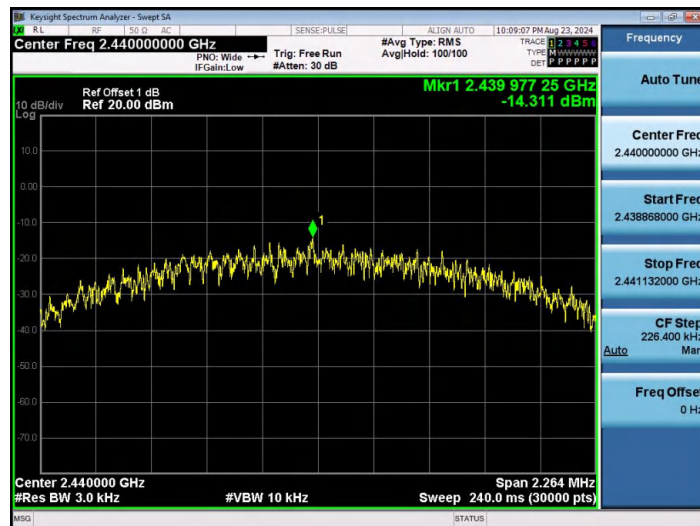
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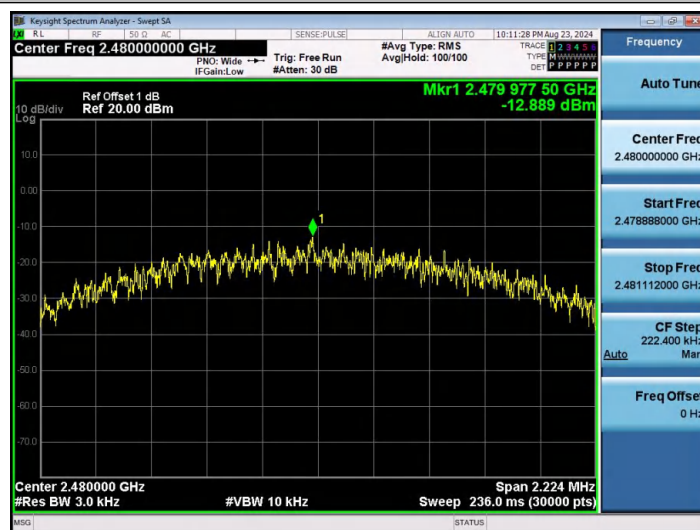




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

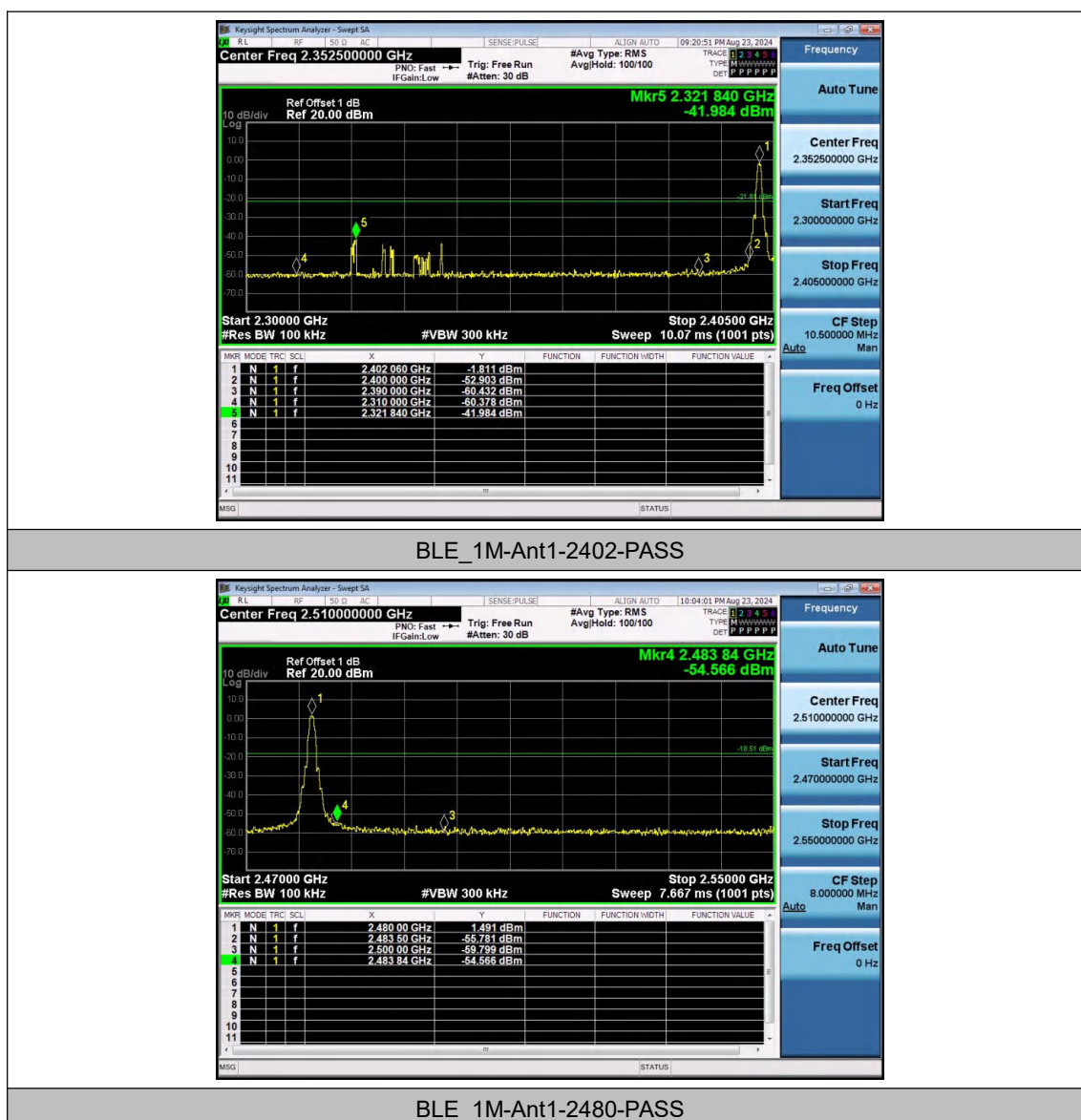


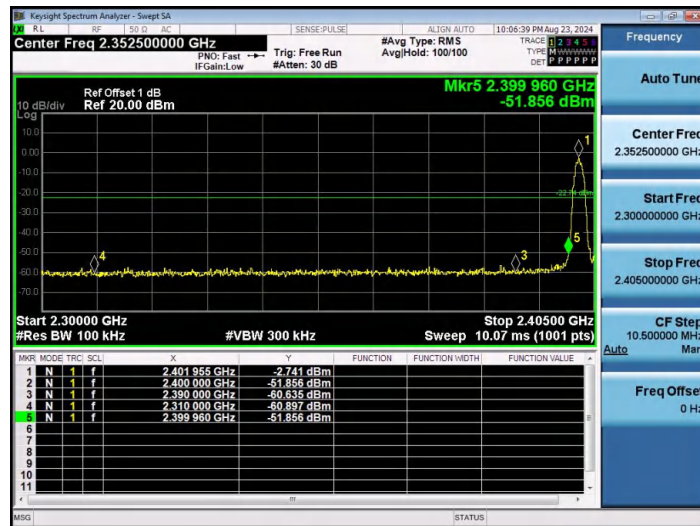
Appendix E: Band edge measurements

Test Result

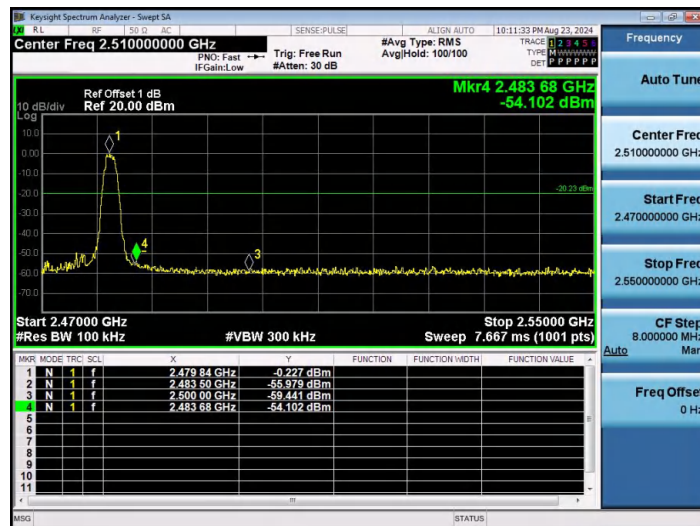
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.81	-41.98	≤-21.81	PASS
BLE_1M	Ant1	High	2480	1.49	-54.57	≤-18.51	PASS
BLE_2M	Ant1	Low	2402	-2.74	-51.86	≤-22.74	PASS
BLE_2M	Ant1	High	2480	-0.23	-54.1	≤-20.23	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS



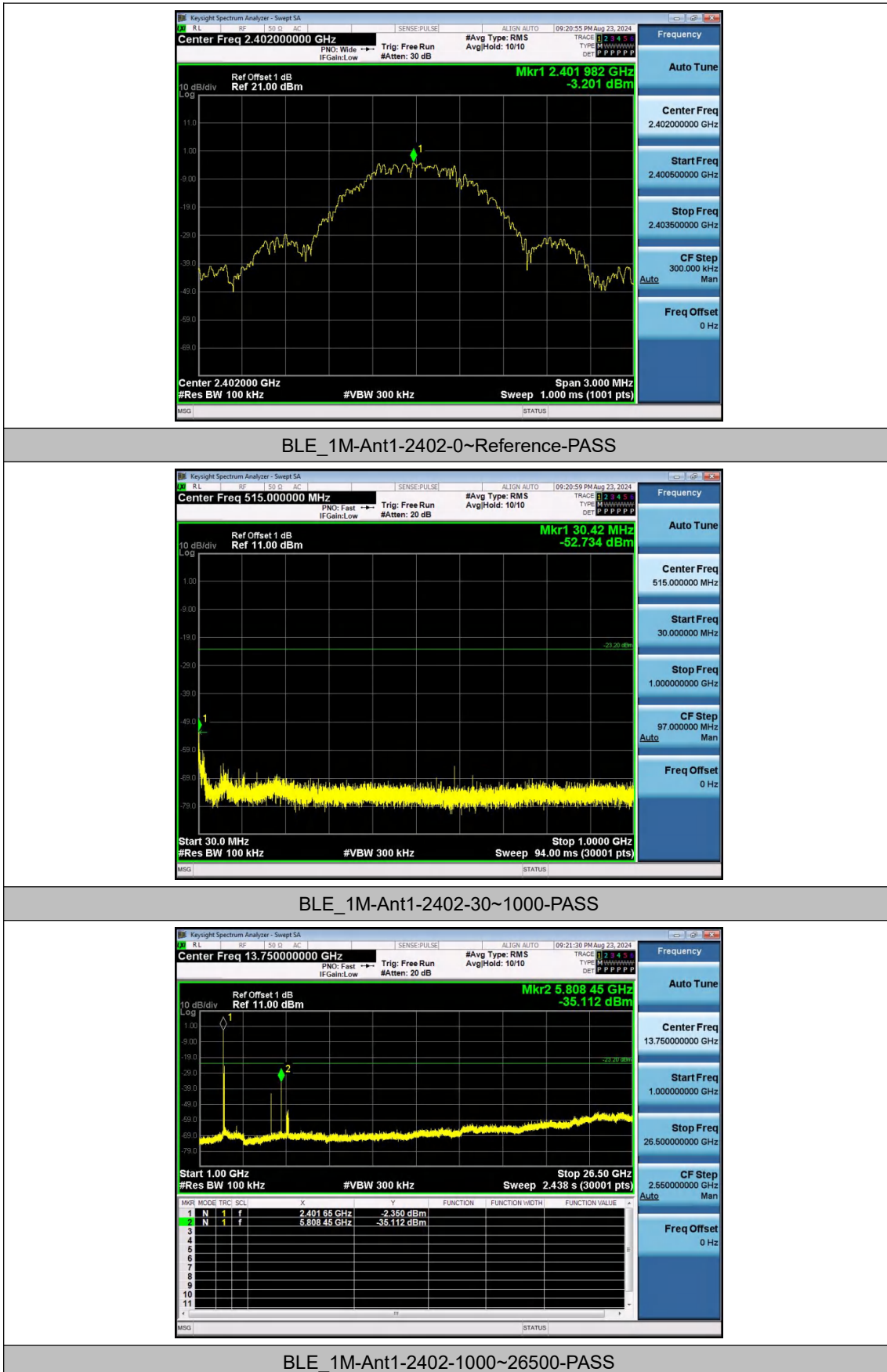
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.20	-3.20	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.20	-52.73	≤-23.2	PASS
BLE_1M	Ant1	2402	1000~26500	-3.20	-35.11	≤-23.2	PASS
BLE_1M	Ant1	2440	0~Reference	-0.64	-0.64	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.64	-54.23	≤-20.64	PASS
BLE_1M	Ant1	2440	1000~26500	-0.64	-38.07	≤-20.64	PASS
BLE_1M	Ant1	2480	0~Reference	0.32	0.32	---	PASS
BLE_1M	Ant1	2480	30~1000	0.32	-52.34	≤-19.68	PASS
BLE_1M	Ant1	2480	1000~26500	0.32	-35.41	≤-19.68	PASS
BLE_2M	Ant1	2402	0~Reference	-2.98	-2.98	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.98	-52.66	≤-22.98	PASS
BLE_2M	Ant1	2402	1000~26500	-2.98	-42.34	≤-22.98	PASS
BLE_2M	Ant1	2440	0~Reference	-0.62	-0.62	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.62	-53.91	≤-20.62	PASS
BLE_2M	Ant1	2440	1000~26500	-0.62	-41.26	≤-20.62	PASS
BLE_2M	Ant1	2480	0~Reference	-1.08	-1.08	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.08	-55.78	≤-21.08	PASS
BLE_2M	Ant1	2480	1000~26500	-1.08	-43.06	≤-21.08	PASS



Test Graphs



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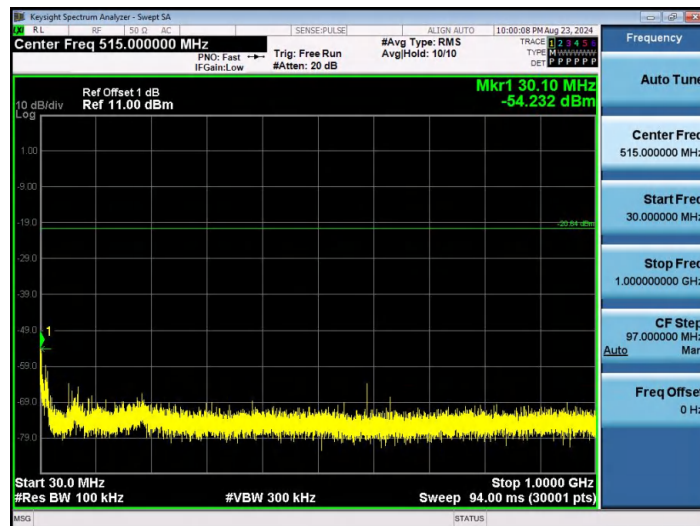
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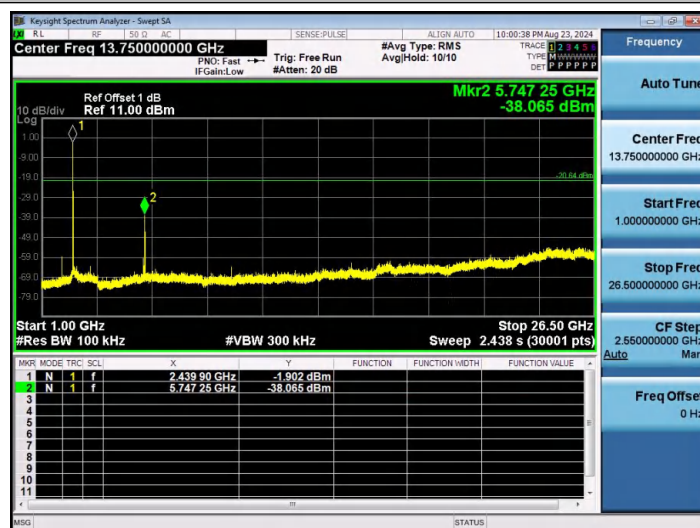




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

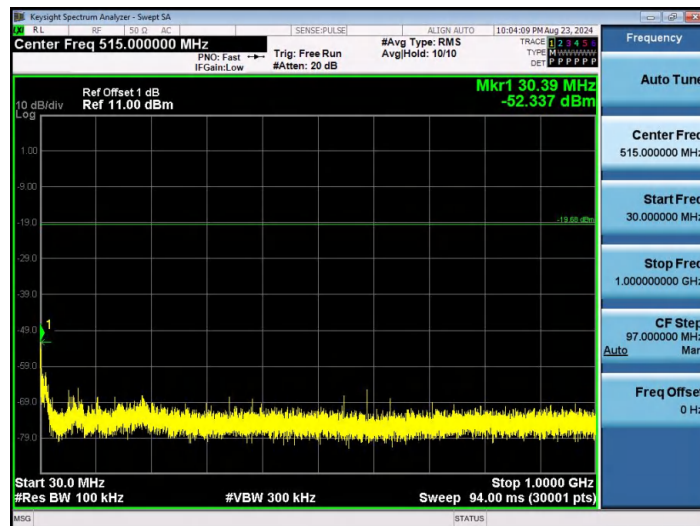


BLE_1M-Ant1-2440-1000~26500-PASS

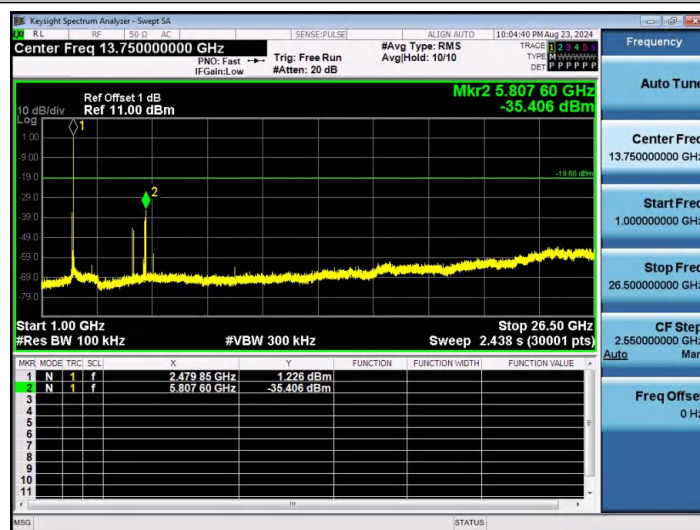




BLE_1M-Ant1-2480-0~Reference-PASS

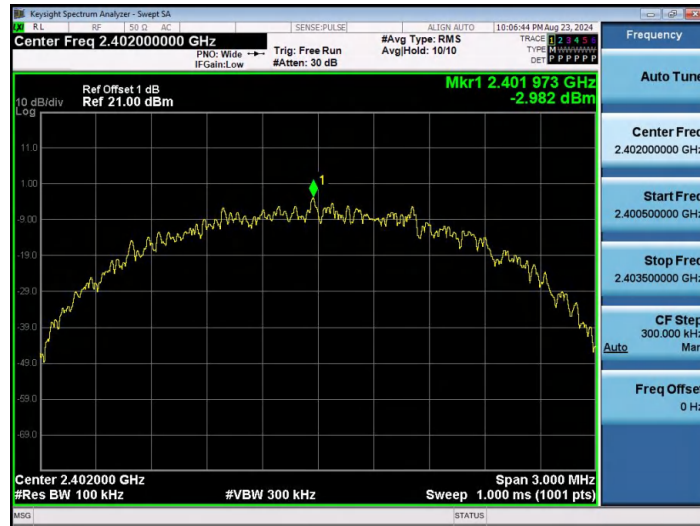


BLE_1M-Ant1-2480-30~1000-PASS

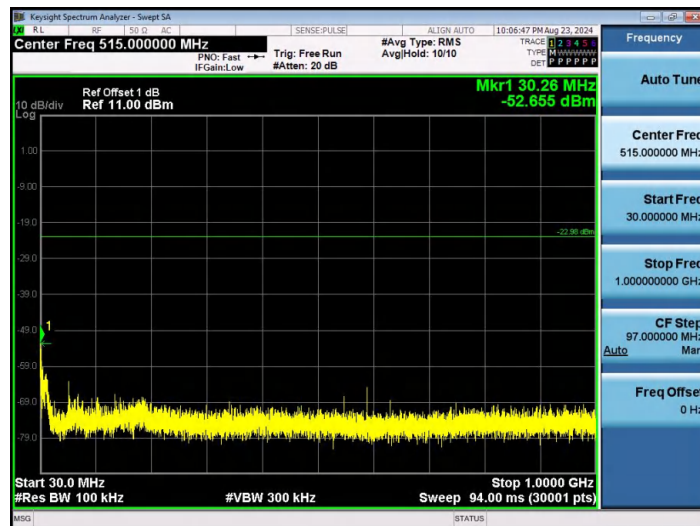


BLE_1M-Ant1-2480-1000~26500-PASS

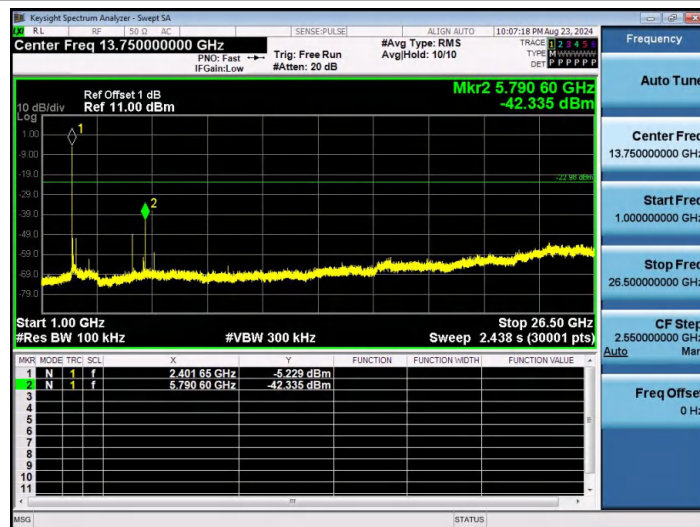




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS

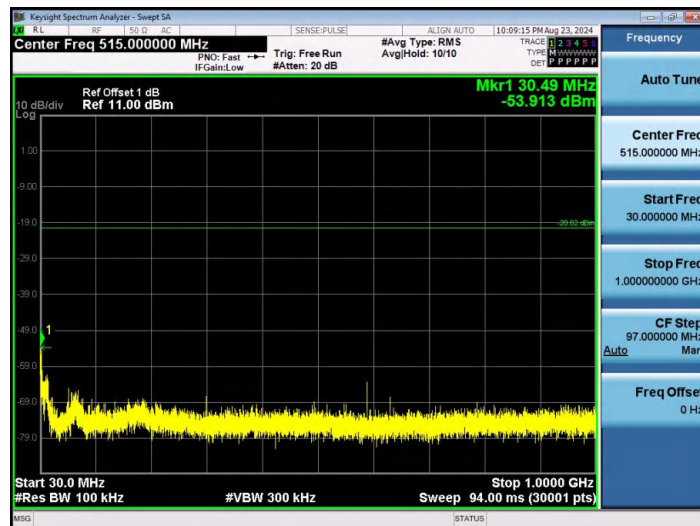


BLE_2M-Ant1-2402-1000~26500-PASS

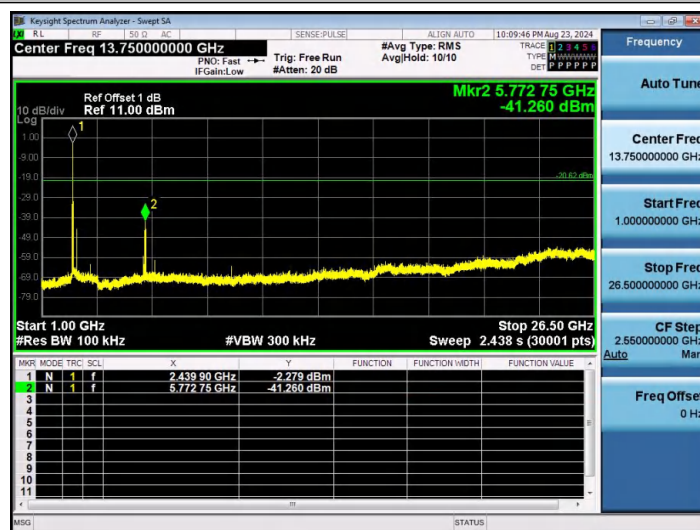




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

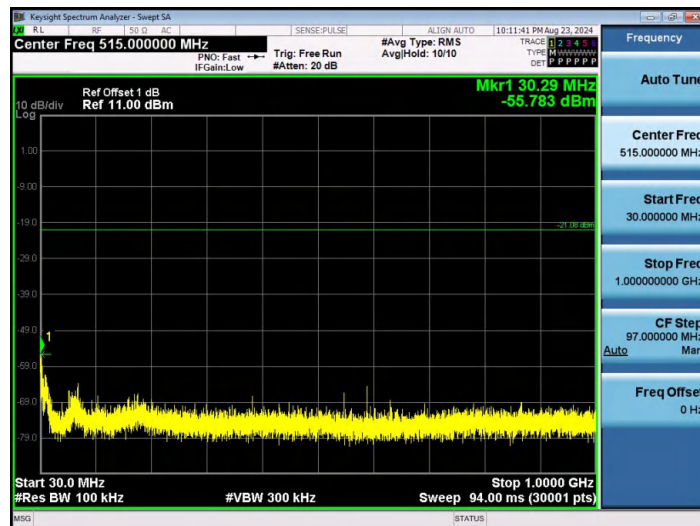


BLE_2M-Ant1-2440-1000~26500-PASS

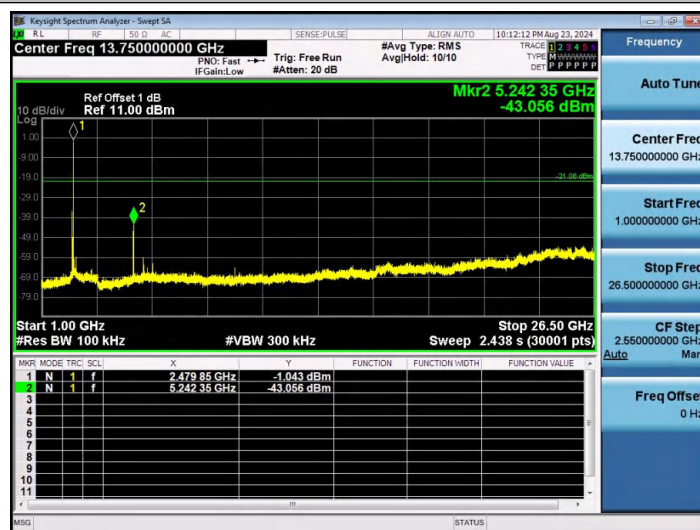




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

---End---

