

Appendix Test Data

Report No.:	1812C40008312502	Test Sample No.:	1-2-2
Start Test Date:	2024.8.20	Finish Test Date:	2024.8.20
Test Engineer:	Foker Wang	Auditor:	Justin Feng
Temperature:	22.2℃	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

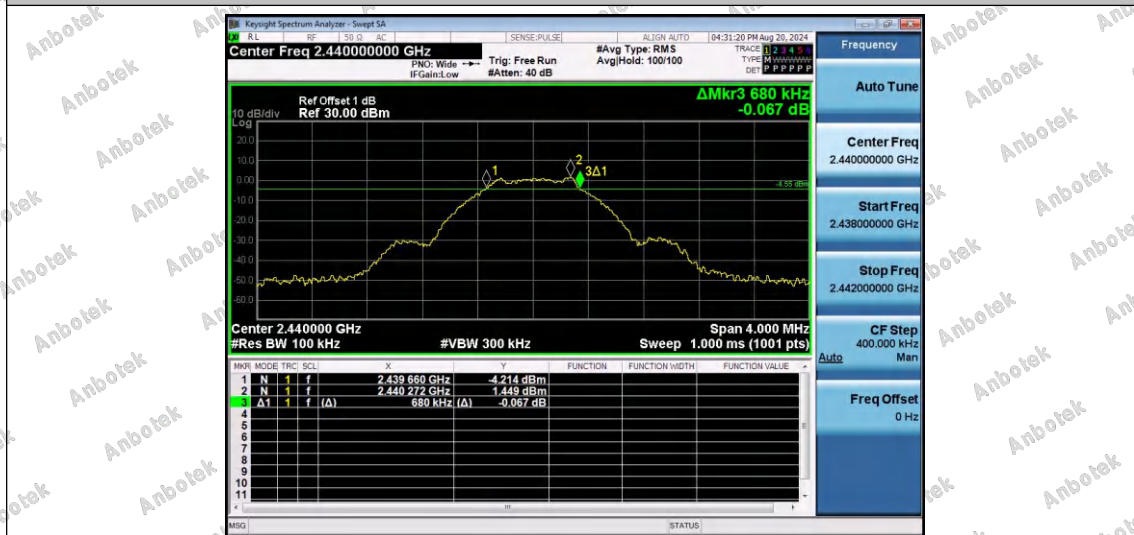
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.676	2402.316	0.5	PASS
BLE_1M	Ant1	2440	0.680	2439.660	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.660	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.372	2401.316	2402.688	0.5	PASS
BLE_2M	Ant1	2440	1.236	2439.364	2440.600	0.5	PASS
BLE_2M	Ant1	2480	1.188	2479.412	2480.600	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0277	2401.4909	2402.5186	---	---
BLE_1M	Ant1	2440	1.0255	2439.4911	2440.5166	---	---
BLE_1M	Ant1	2480	1.0294	2479.4864	2480.5158	---	---
BLE_2M	Ant1	2402	2.0761	2400.9839	2403.0600	---	---
BLE_2M	Ant1	2440	2.0773	2438.9864	2441.0637	---	---
BLE_2M	Ant1	2480	2.0862	2478.9811	2481.0673	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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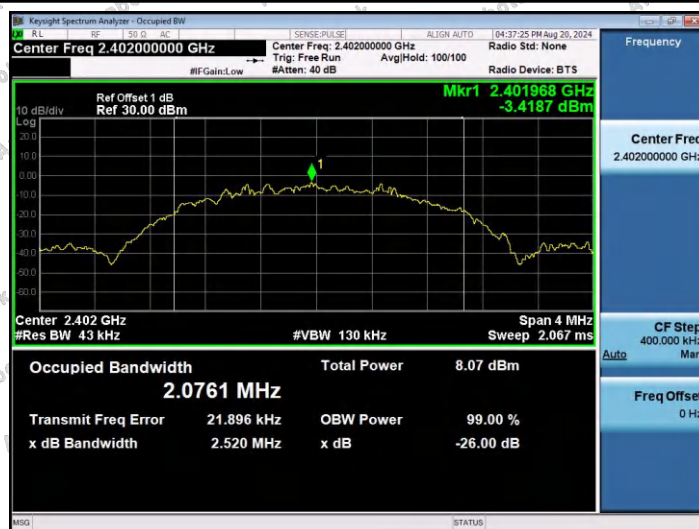
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



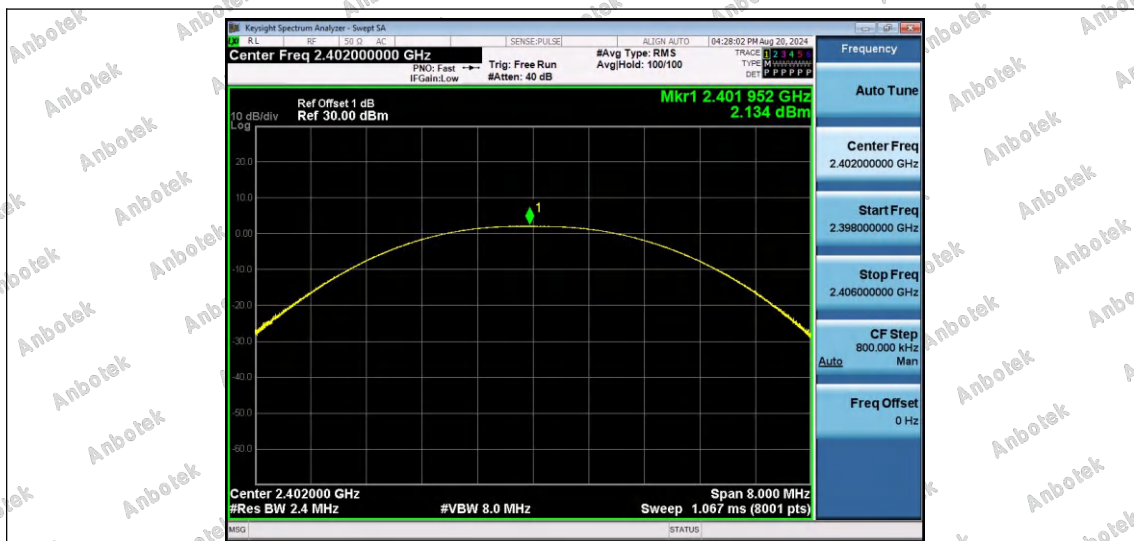
Appendix C: Maximum conducted output power

Test Result Peak

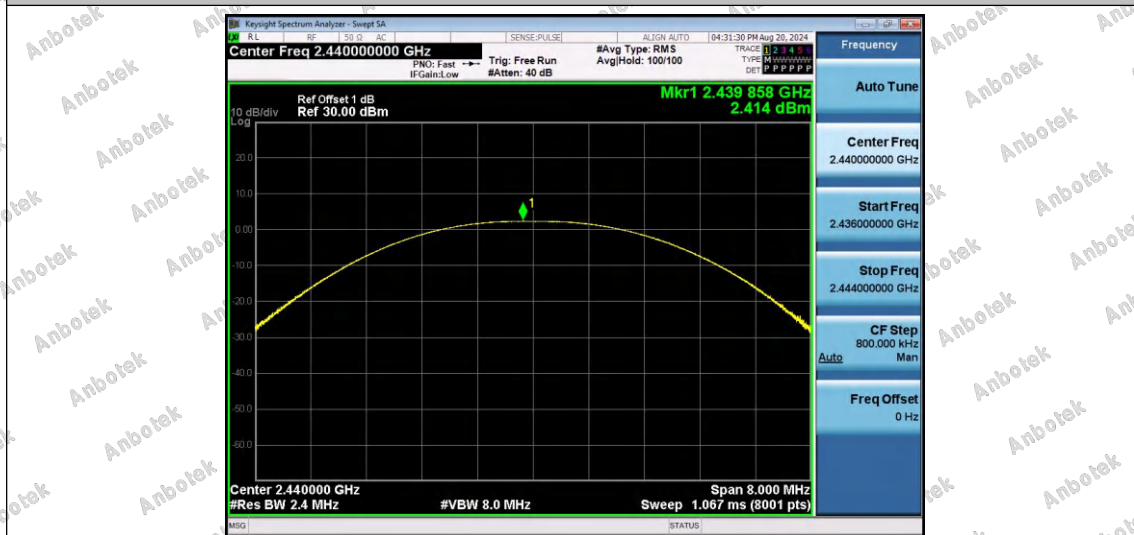
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.13	≤30	PASS
BLE_1M	Ant1	2440	2.41	≤30	PASS
BLE_1M	Ant1	2480	2.86	≤30	PASS
BLE_2M	Ant1	2402	2.11	≤30	PASS
BLE_2M	Ant1	2440	2.37	≤30	PASS
BLE_2M	Ant1	2480	2.73	≤30	PASS



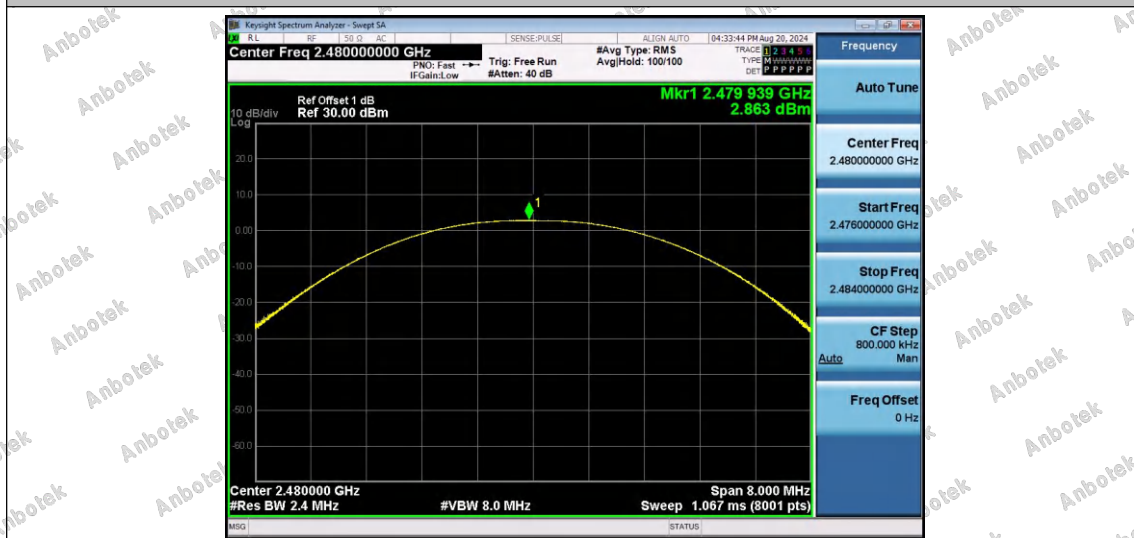
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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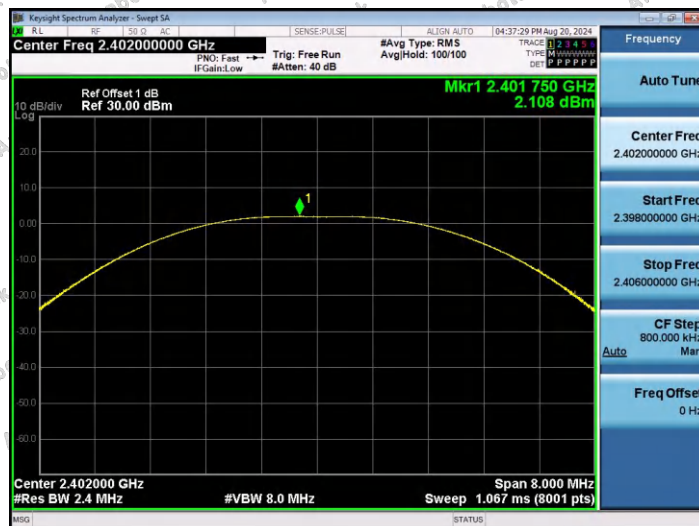
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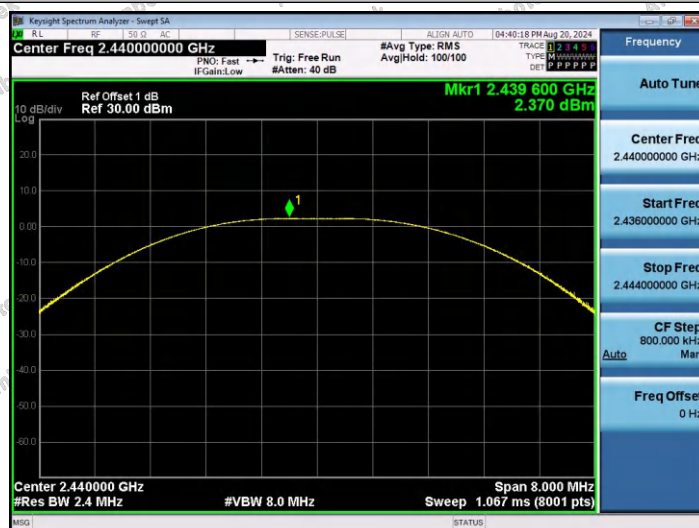
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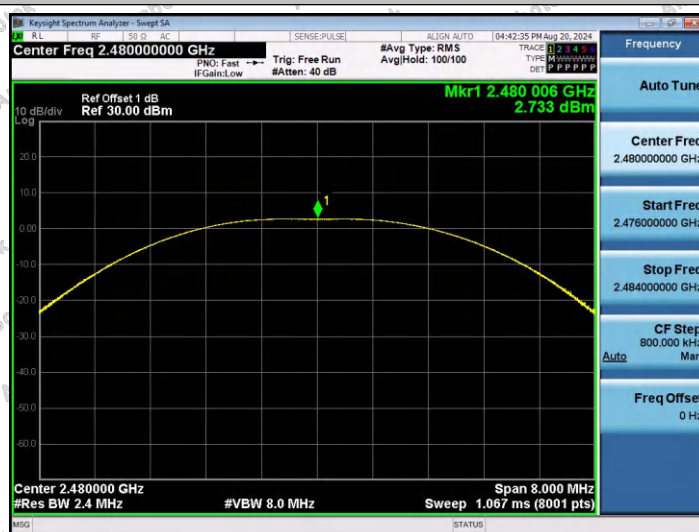




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



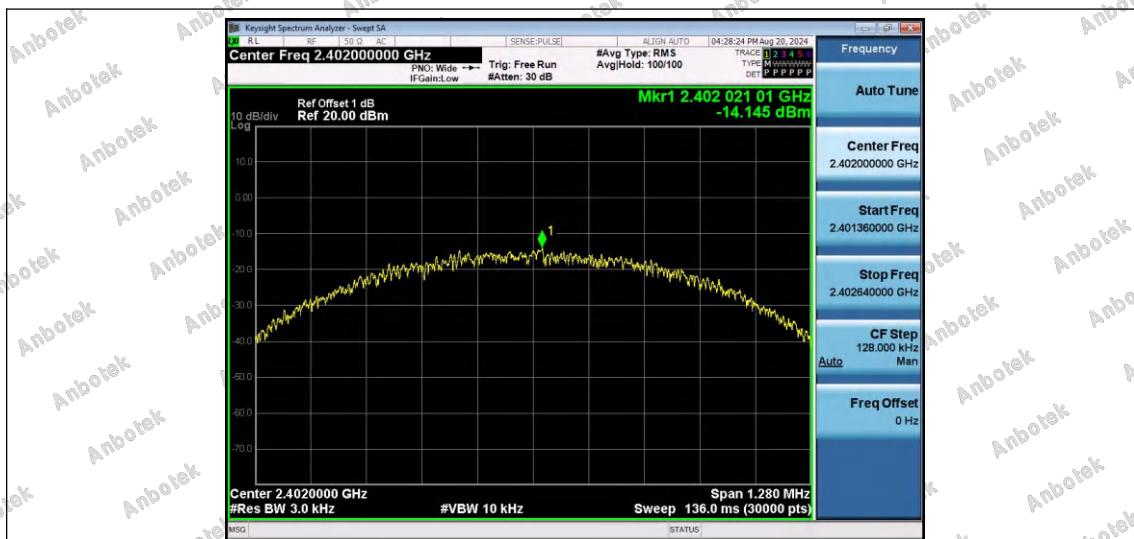
Appendix D: Maximum power spectral density

Test Result

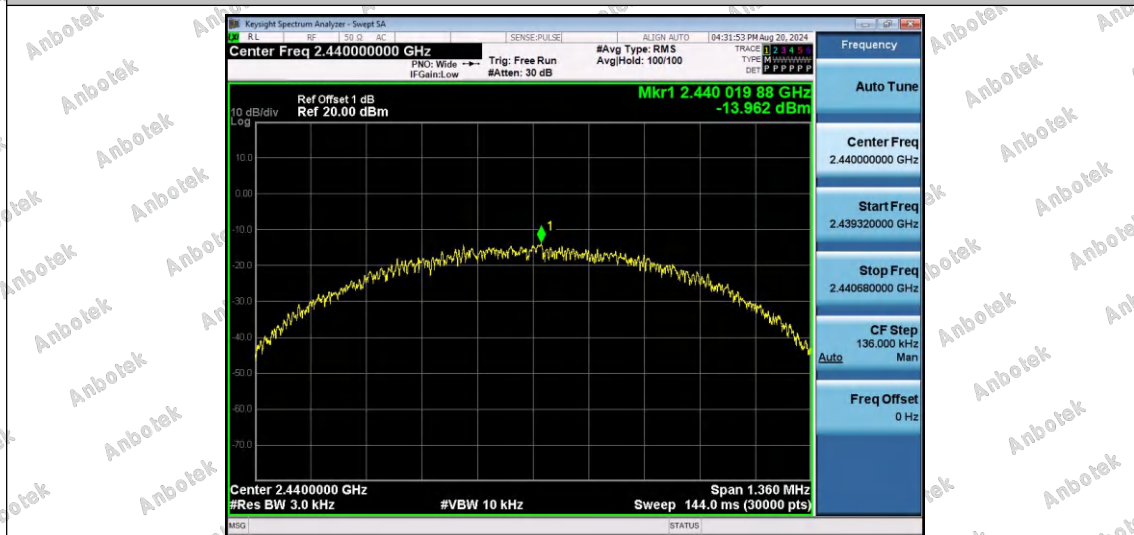
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.15	≤8.00	PASS
BLE_1M	Ant1	2440	-13.96	≤8.00	PASS
BLE_1M	Ant1	2480	-13.44	≤8.00	PASS
BLE_2M	Ant1	2402	-17.31	≤8.00	PASS
BLE_2M	Ant1	2440	-17.17	≤8.00	PASS
BLE_2M	Ant1	2480	-16.65	≤8.00	PASS



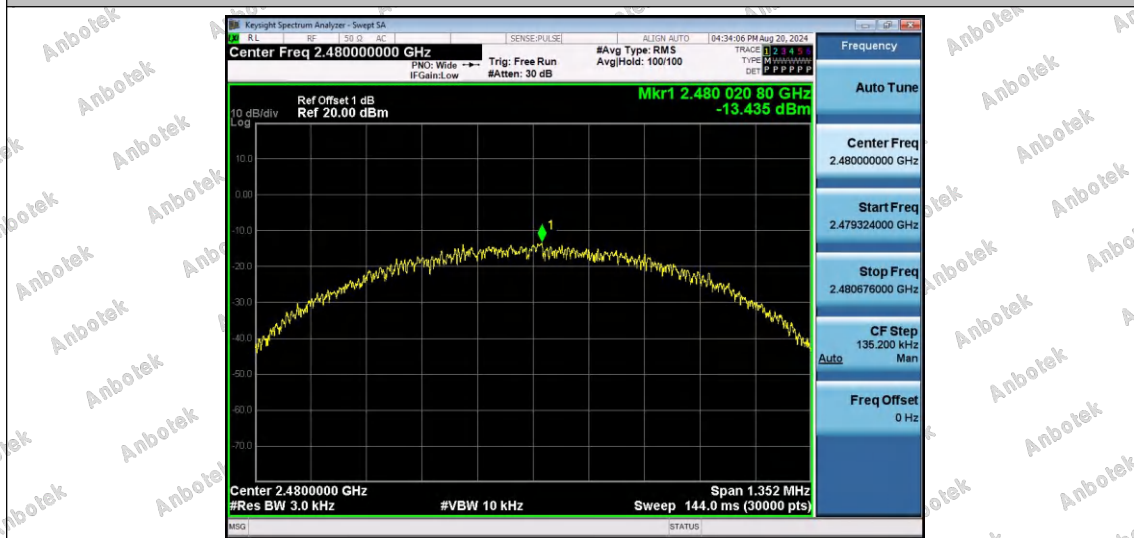
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



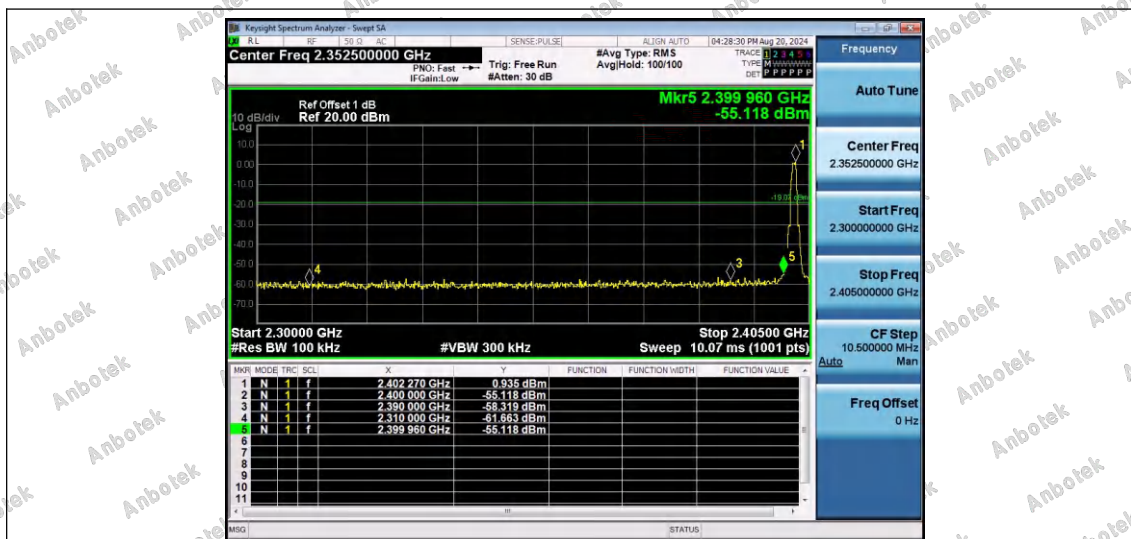
Appendix E: Band edge measurements

Test Result

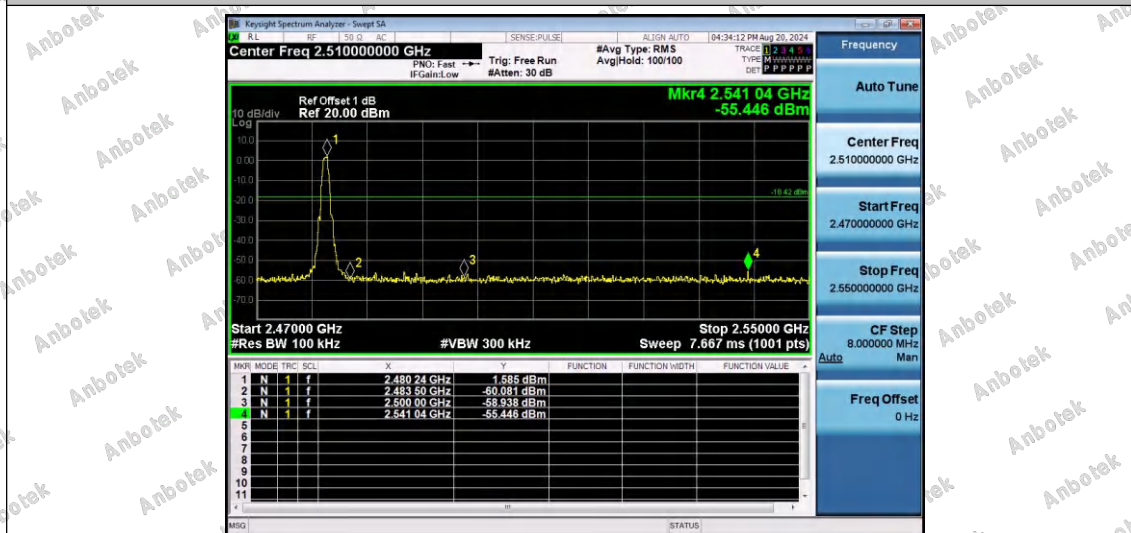
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.94	-55.12	≤-19.07	PASS
BLE_1M	Ant1	High	2480	1.59	-55.45	≤-18.42	PASS
BLE_2M	Ant1	Low	2402	0.08	-33.94	≤-19.93	PASS
BLE_2M	Ant1	High	2480	0.31	-52.25	≤-19.69	PASS



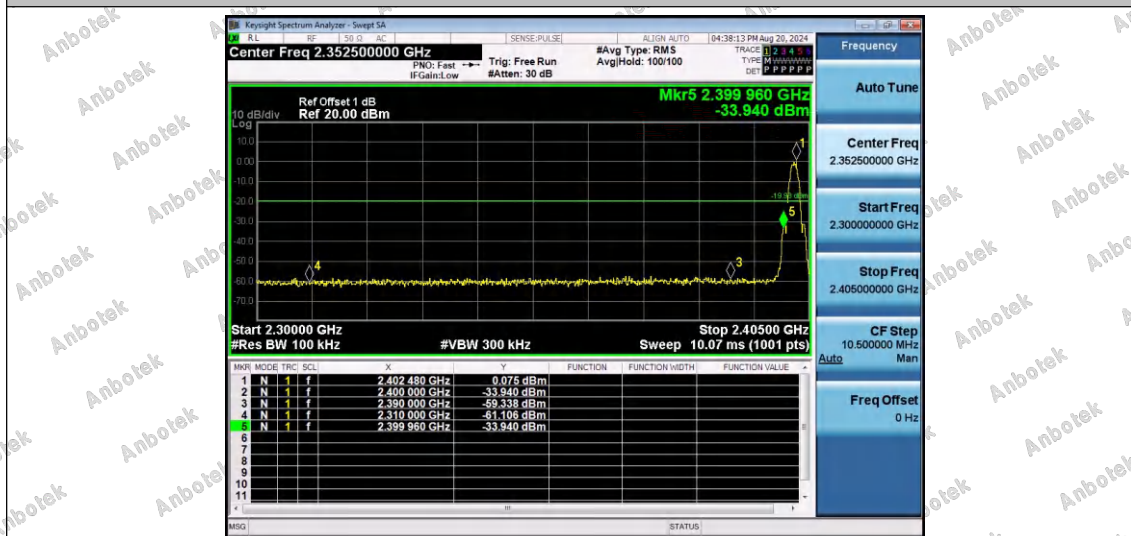
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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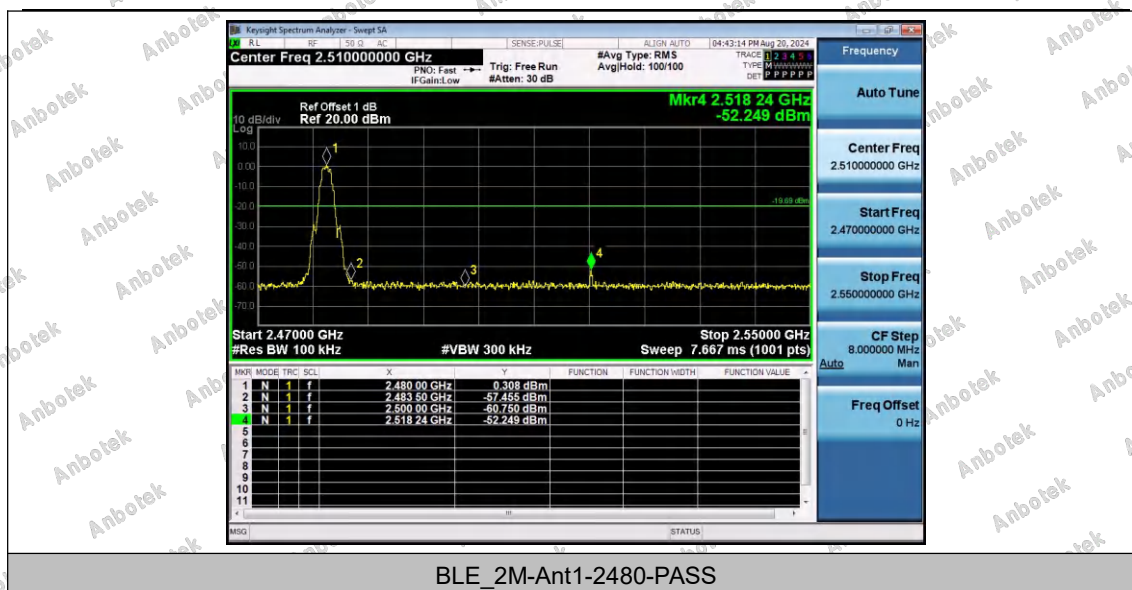
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BLE_2M-Ant1-2480-PASS



Appendix F: Conducted Spurious Emission

Test Result

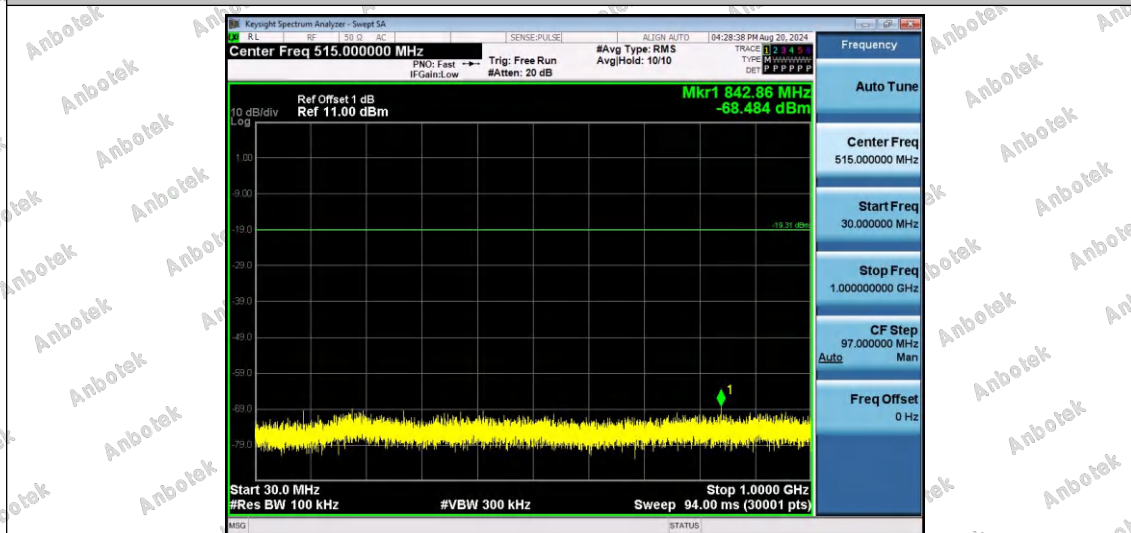
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.69	0.69	---	PASS
BLE_1M	Ant1	2402	30~1000	0.69	-68.48	≤-19.31	PASS
BLE_1M	Ant1	2402	1000~26500	0.69	-48.29	≤-19.31	PASS
BLE_1M	Ant1	2440	0~Reference	0.88	0.88	---	PASS
BLE_1M	Ant1	2440	30~1000	0.88	-68.66	≤-19.12	PASS
BLE_1M	Ant1	2440	1000~26500	0.88	-48.5	≤-19.12	PASS
BLE_1M	Ant1	2480	0~Reference	1.00	1.00	---	PASS
BLE_1M	Ant1	2480	30~1000	1.00	-69.2	≤-19	PASS
BLE_1M	Ant1	2480	1000~26500	1.00	-53.3	≤-19	PASS
BLE_2M	Ant1	2402	0~Reference	0.41	0.41	---	PASS
BLE_2M	Ant1	2402	30~1000	0.41	-67.9	≤-19.59	PASS
BLE_2M	Ant1	2402	1000~26500	0.41	-49.04	≤-19.59	PASS
BLE_2M	Ant1	2440	0~Reference	0.04	0.04	---	PASS
BLE_2M	Ant1	2440	30~1000	0.04	-69.07	≤-19.96	PASS
BLE_2M	Ant1	2440	1000~26500	0.04	-52.13	≤-19.96	PASS
BLE_2M	Ant1	2480	0~Reference	-1.07	-1.07	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.07	-68.45	≤-21.07	PASS
BLE_2M	Ant1	2480	1000~26500	-1.07	-53.1	≤-21.07	PASS



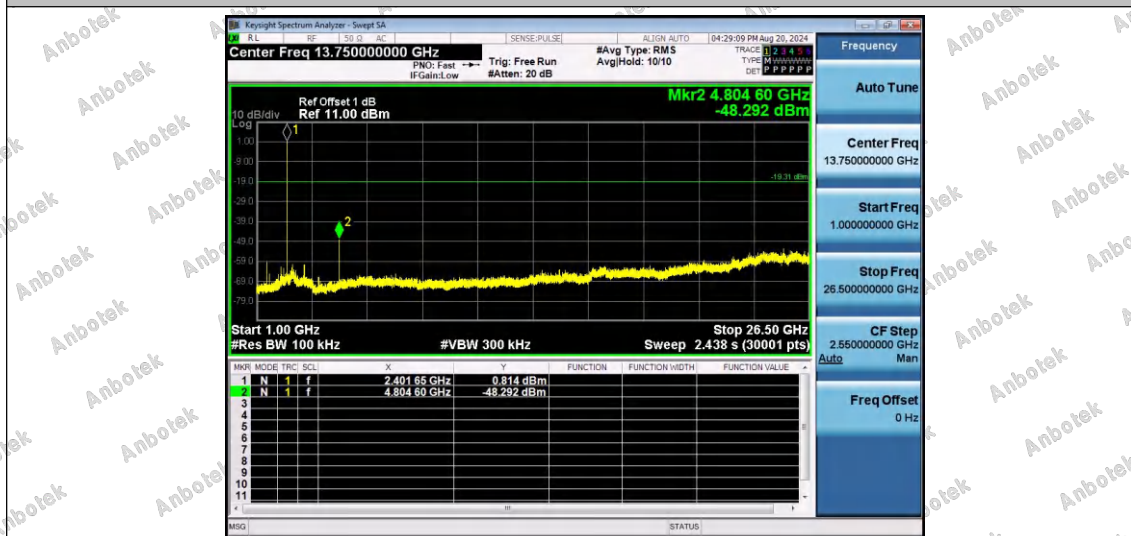
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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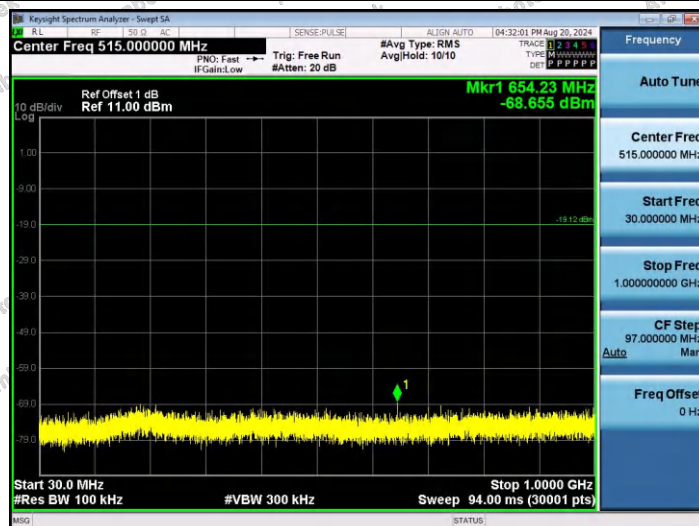
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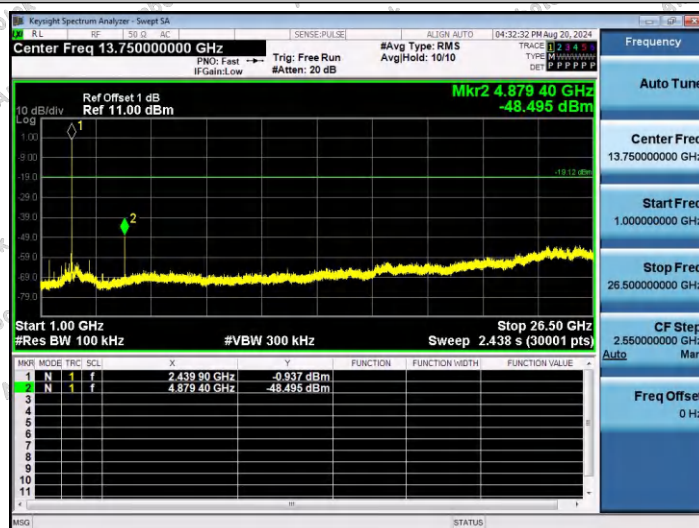




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

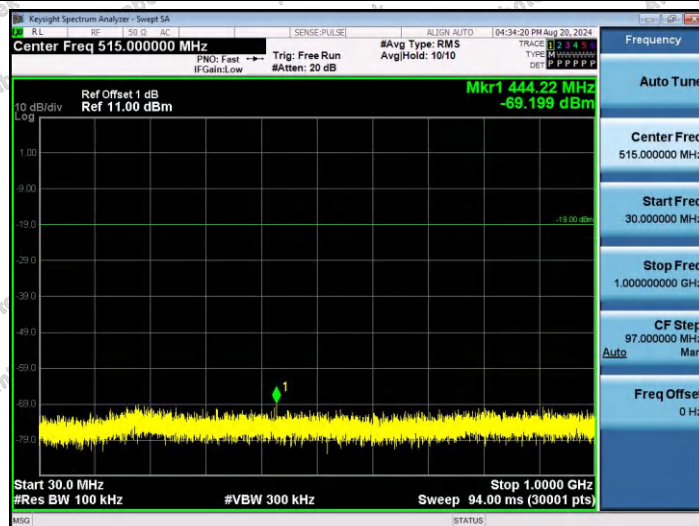


BLE_1M-Ant1-2440-1000~26500-PASS

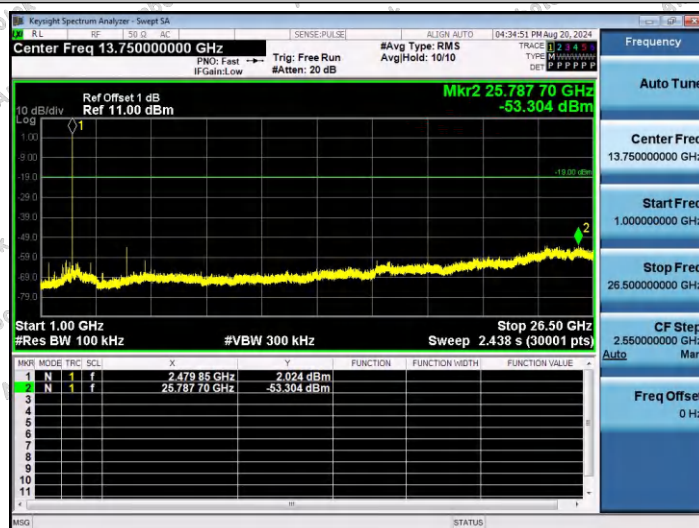




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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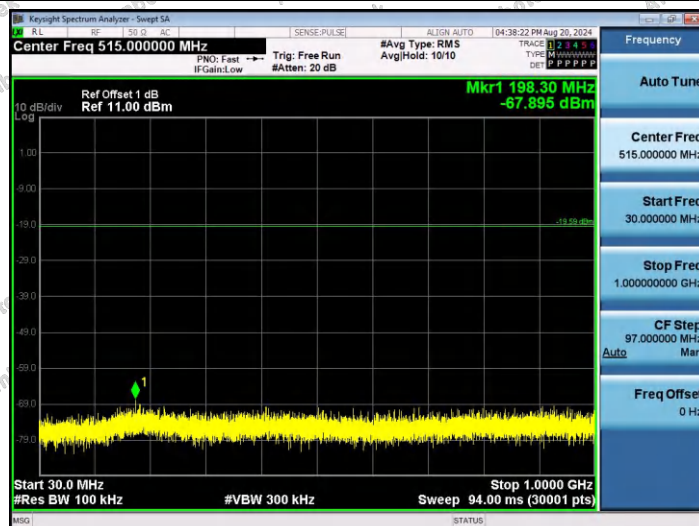


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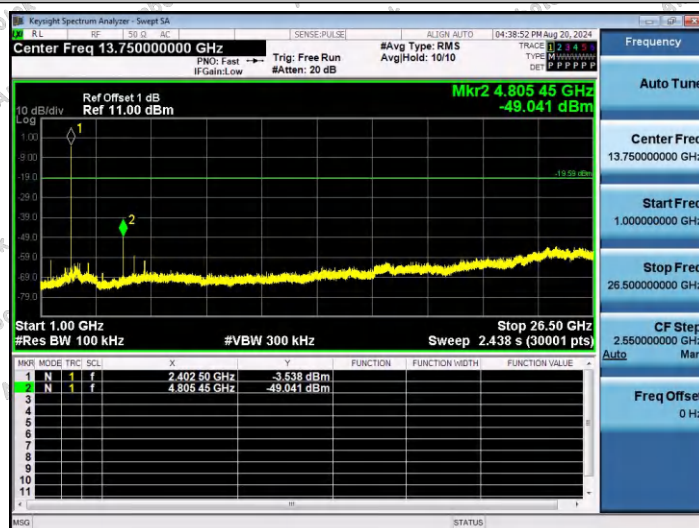




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS

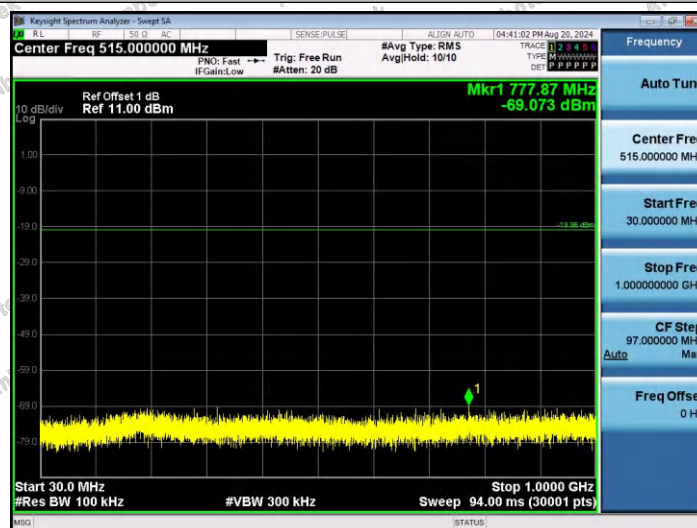


BLE_2M-Ant1-2402-1000~26500-PASS

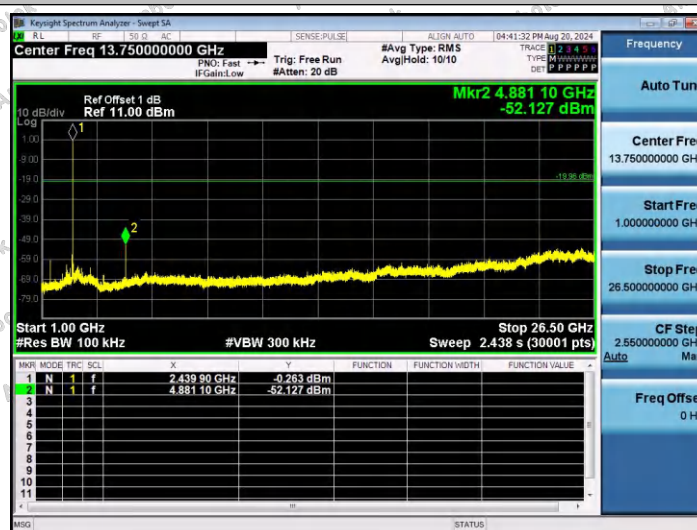




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

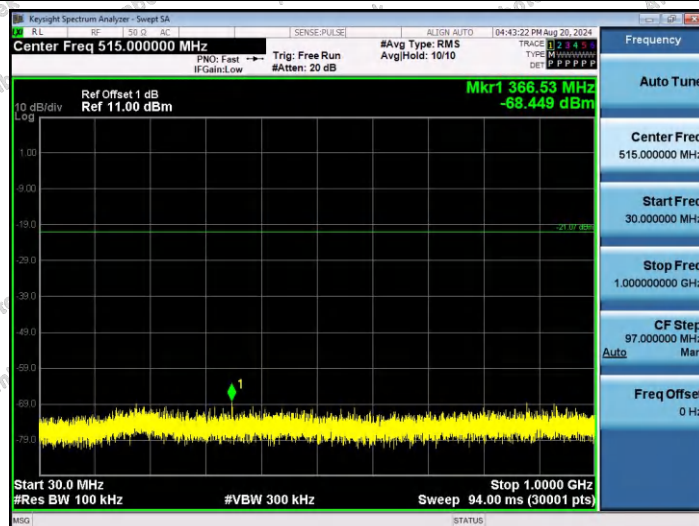


BLE_2M-Ant1-2440-1000~26500-PASS

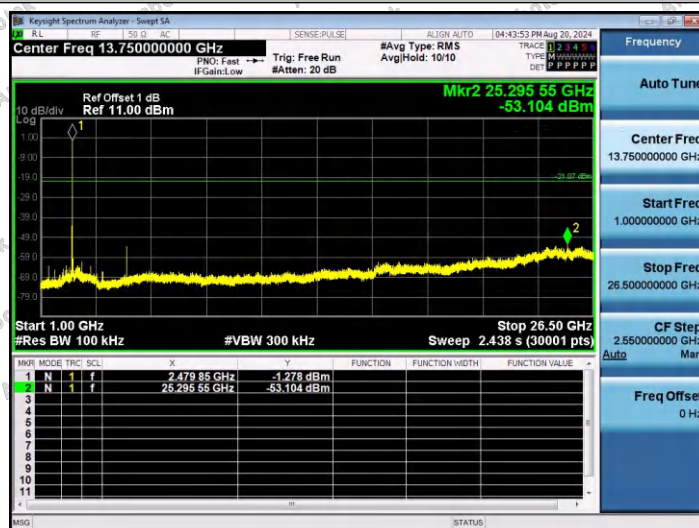




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



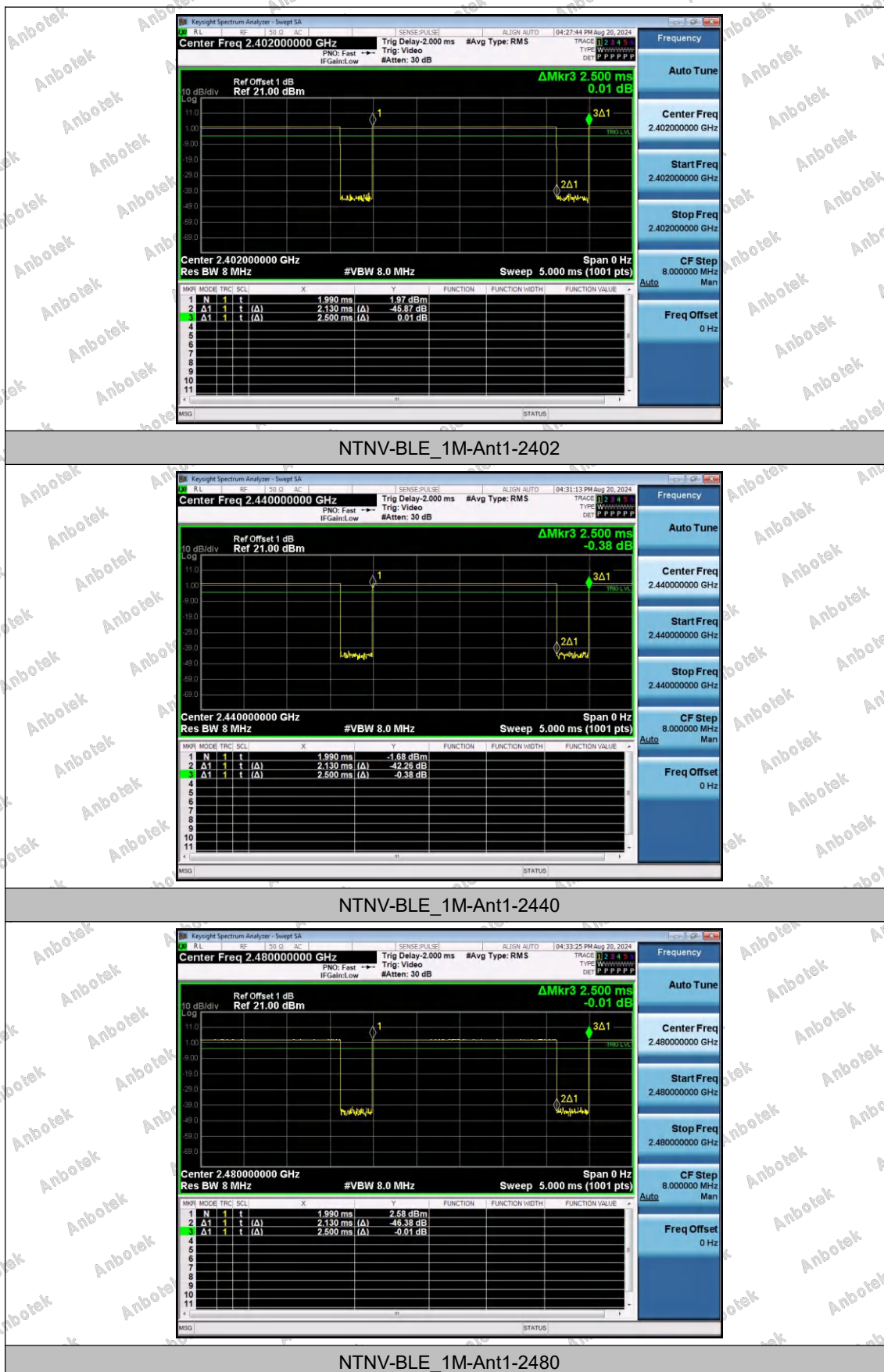
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45



Test Graphs



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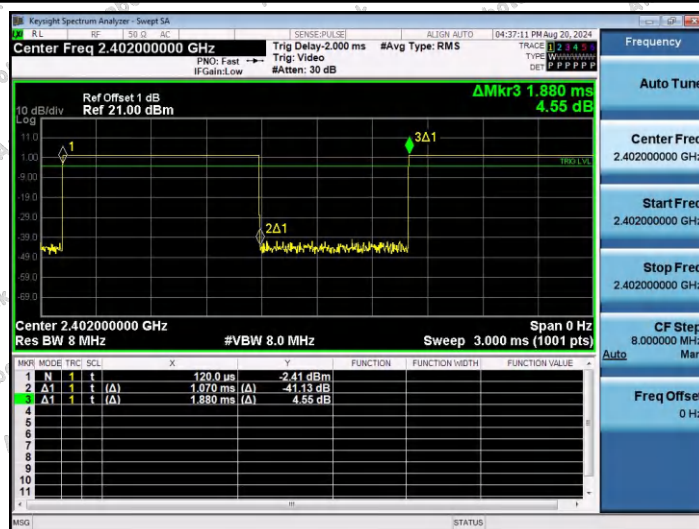
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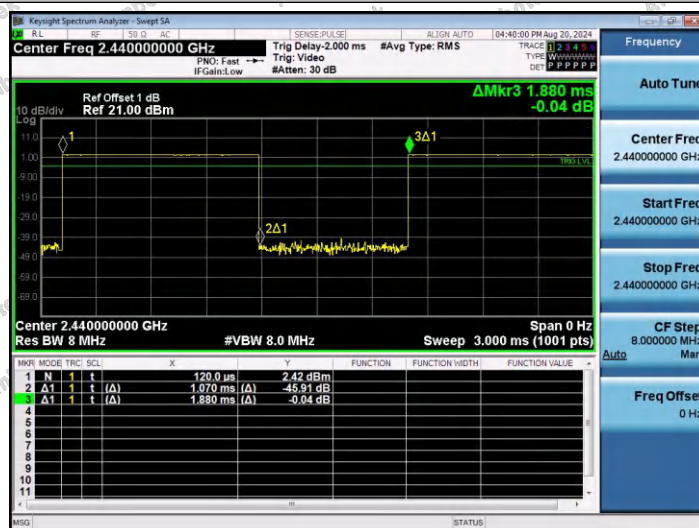


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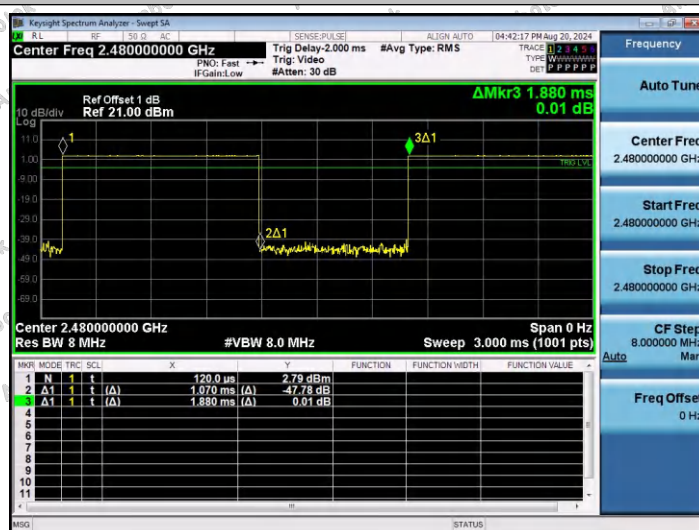




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

