

Appendix Test Data

Report No.:	1815C40145312501	Test Sample No.:	1-2-2
Start Test Date:	2024.10.21	Finish Test Date:	2024.10.21
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.5°C	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	0.656	2401.692	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.688	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.676	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.464	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.088	2439.472	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.060	2479.484	2480.544	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	1.0212	2401.5083	2402.5295	---	---
BLE_1M	Ant1	2440	1.0200	2439.5103	2440.5303	---	---
BLE_1M	Ant1	2480	1.0129	2479.5132	2480.5261	---	---
BLE_2M	Ant1	2402	2.0508	2401.0011	2403.0519	---	---
BLE_2M	Ant1	2440	2.0477	2439.0056	2441.0533	---	---
BLE_2M	Ant1	2480	2.0359	2479.0149	2481.0508	---	---



Test Graphs



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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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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	0.45	≤30	PASS
BLE_1M	Ant1	2440	0.60	≤30	PASS
BLE_1M	Ant1	2480	0.63	≤30	PASS
BLE_2M	Ant1	2402	0.51	≤30	PASS
BLE_2M	Ant1	2440	0.70	≤30	PASS
BLE_2M	Ant1	2480	0.75	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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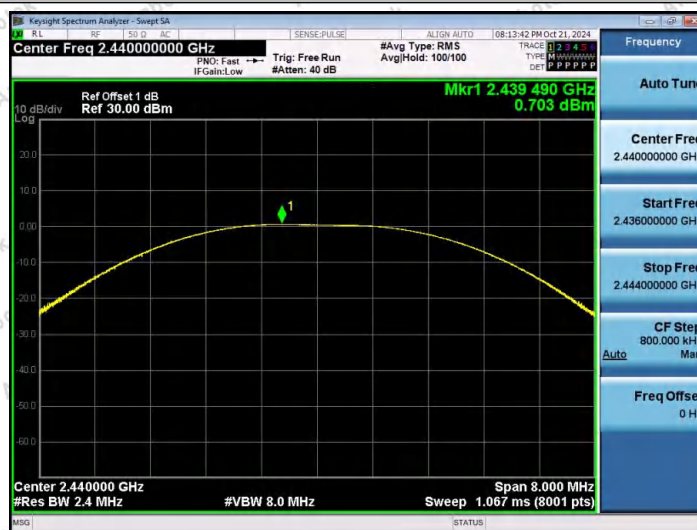




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

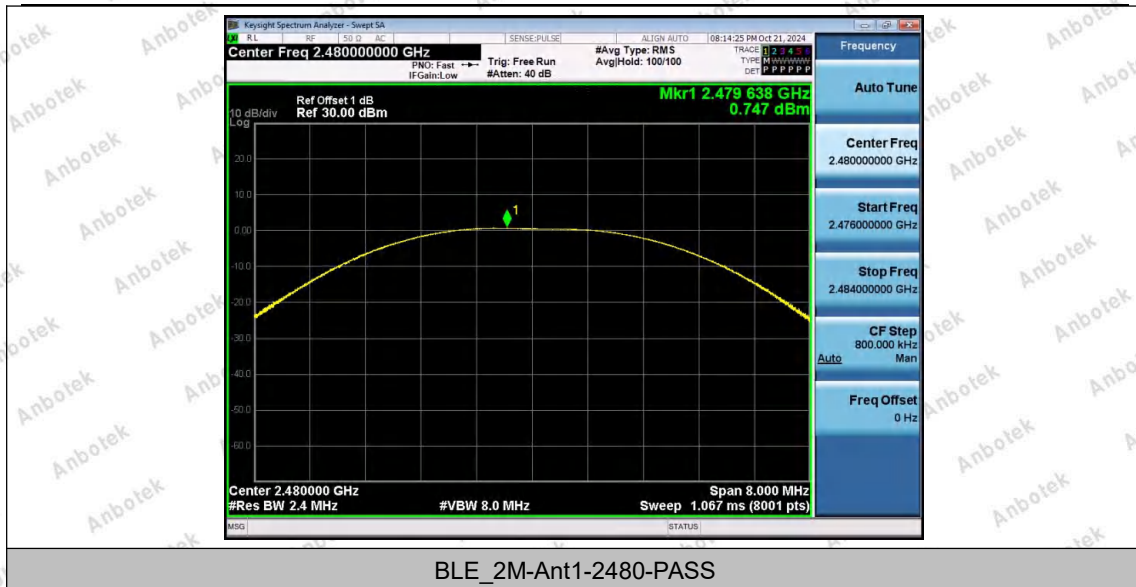
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.36	≤8.00	PASS
BLE_1M	Ant1	2440	-4.13	≤8.00	PASS
BLE_1M	Ant1	2480	-4.17	≤8.00	PASS
BLE_2M	Ant1	2402	-4.84	≤8.00	PASS
BLE_2M	Ant1	2440	-4.51	≤8.00	PASS
BLE_2M	Ant1	2480	-4.52	≤8.00	PASS



Test Graphs



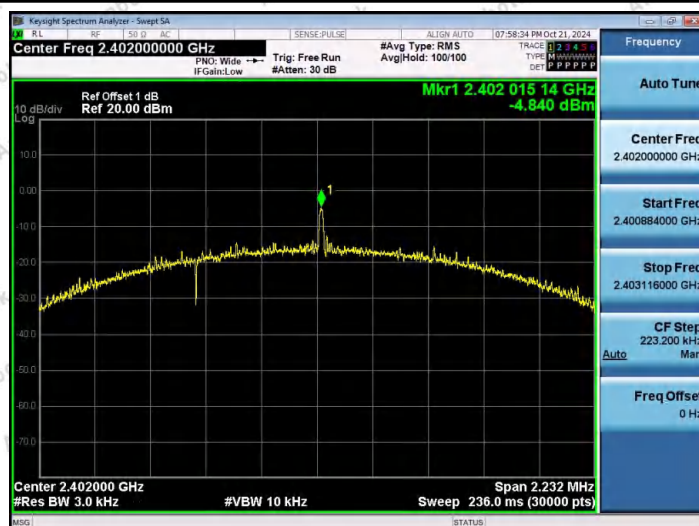
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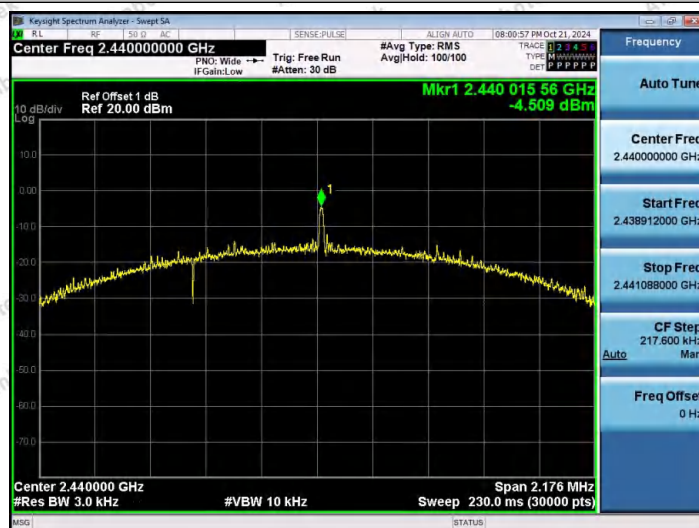


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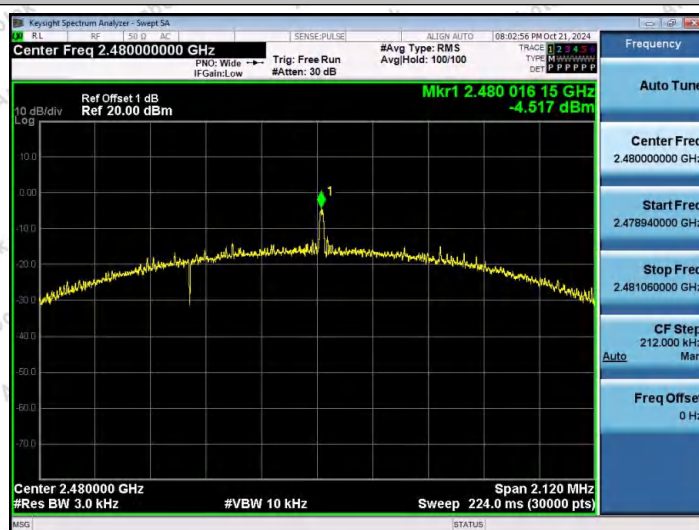




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



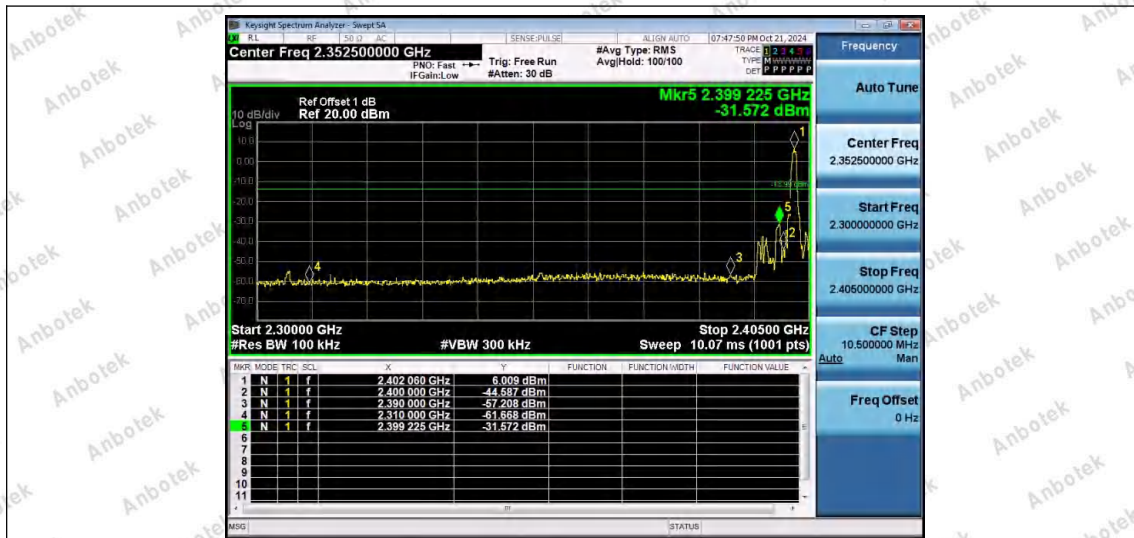
Appendix E: Band edge measurements

Test Result

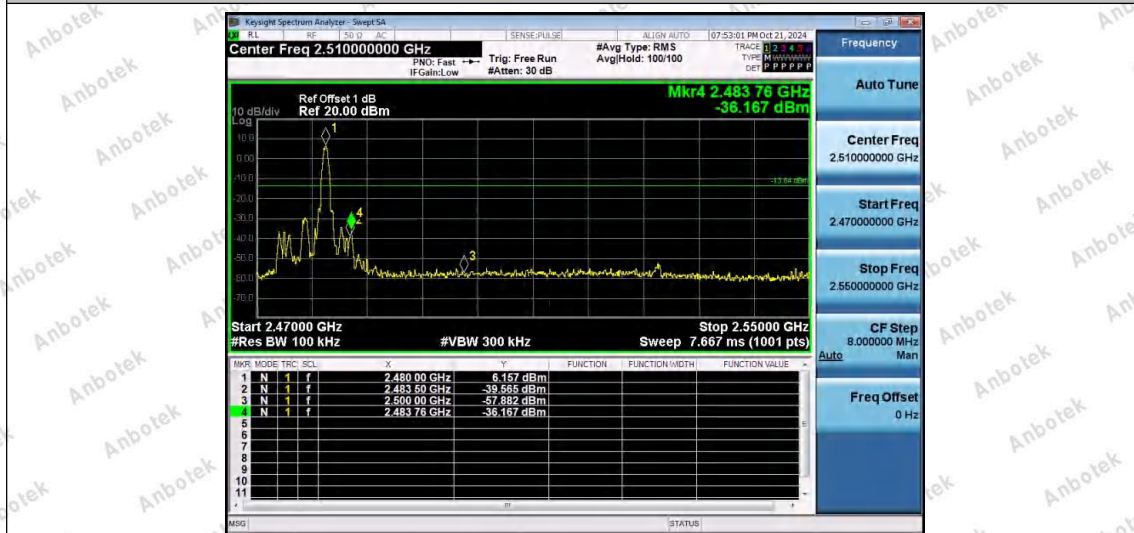
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.01	-31.57	≤-13.99	PASS
BLE_1M	Ant1	High	2480	6.16	-36.17	≤-13.84	PASS
BLE_2M	Ant1	Low	2402	6.03	-28.68	≤-13.97	PASS
BLE_2M	Ant1	High	2480	6.23	-38.03	≤-13.77	PASS



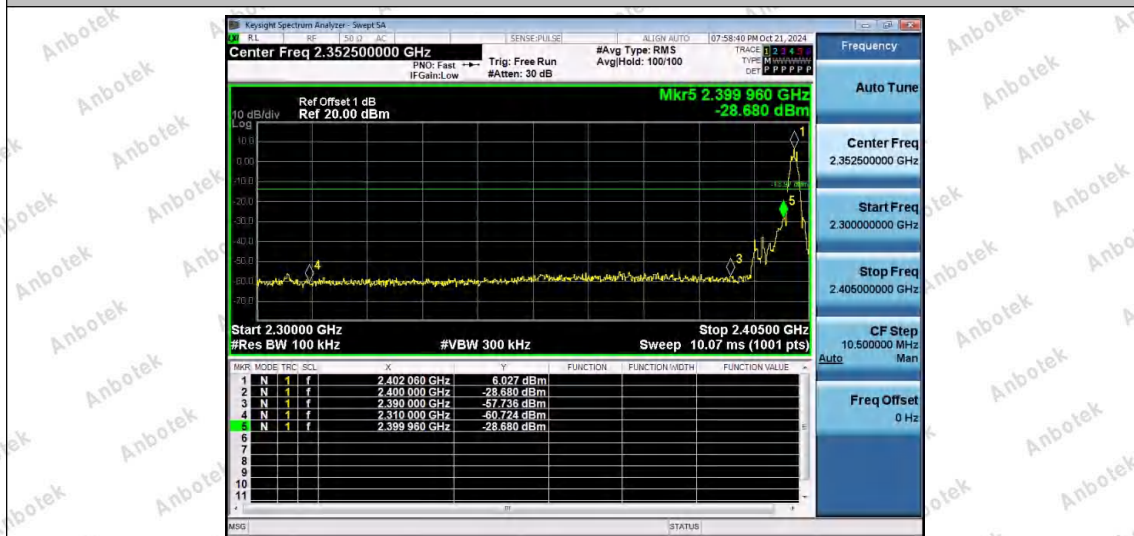
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2480-PASS

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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	4.75	4.75	---	PASS
BLE_1M	Ant1	2402	30~1000	4.75	-69.19	≤-15.25	PASS
BLE_1M	Ant1	2402	1000~26500	4.75	-42.41	≤-15.25	PASS
BLE_1M	Ant1	2440	0~Reference	4.72	4.72	---	PASS
BLE_1M	Ant1	2440	30~1000	4.72	-68.29	≤-15.28	PASS
BLE_1M	Ant1	2440	1000~26500	4.72	-42.1	≤-15.28	PASS
BLE_1M	Ant1	2480	0~Reference	4.34	4.34	---	PASS
BLE_1M	Ant1	2480	30~1000	4.34	-68.72	≤-15.66	PASS
BLE_1M	Ant1	2480	1000~26500	4.34	-42.1	≤-15.66	PASS
BLE_2M	Ant1	2402	0~Reference	5.71	5.71	---	PASS
BLE_2M	Ant1	2402	30~1000	5.71	-69.3	≤-14.29	PASS
BLE_2M	Ant1	2402	1000~26500	5.71	-40.56	≤-14.29	PASS
BLE_2M	Ant1	2440	0~Reference	4.68	4.68	---	PASS
BLE_2M	Ant1	2440	30~1000	4.68	-69.21	≤-15.32	PASS
BLE_2M	Ant1	2440	1000~26500	4.68	-44.87	≤-15.32	PASS
BLE_2M	Ant1	2480	0~Reference	3.09	3.09	---	PASS
BLE_2M	Ant1	2480	30~1000	3.09	-69.18	≤-16.91	PASS
BLE_2M	Ant1	2480	1000~26500	3.09	-45.74	≤-16.91	PASS



Test Graphs



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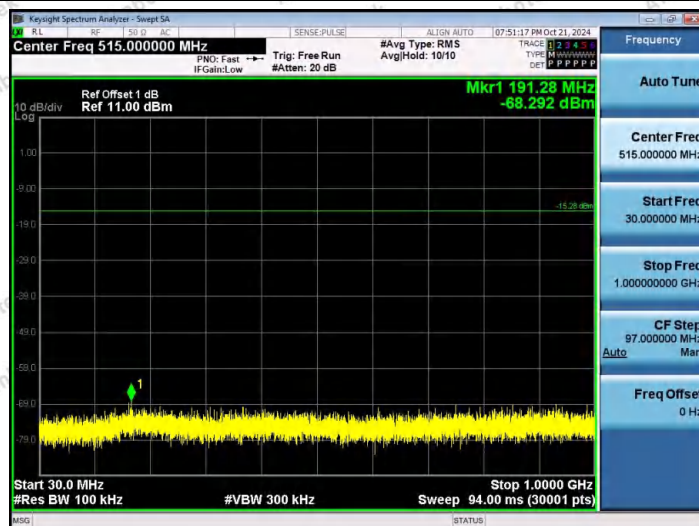


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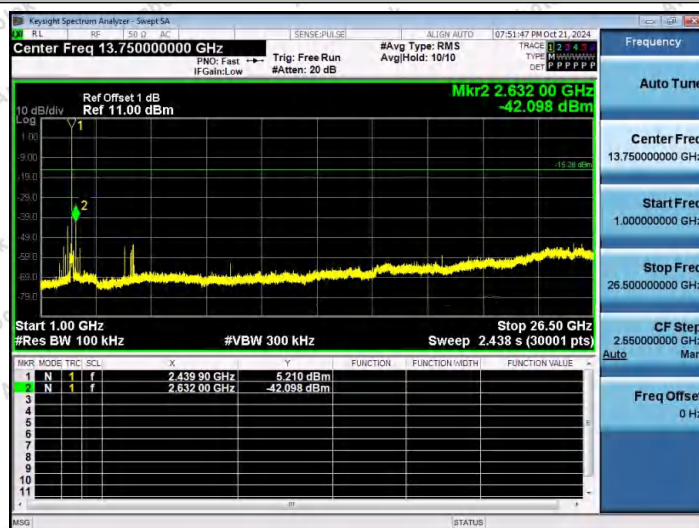




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

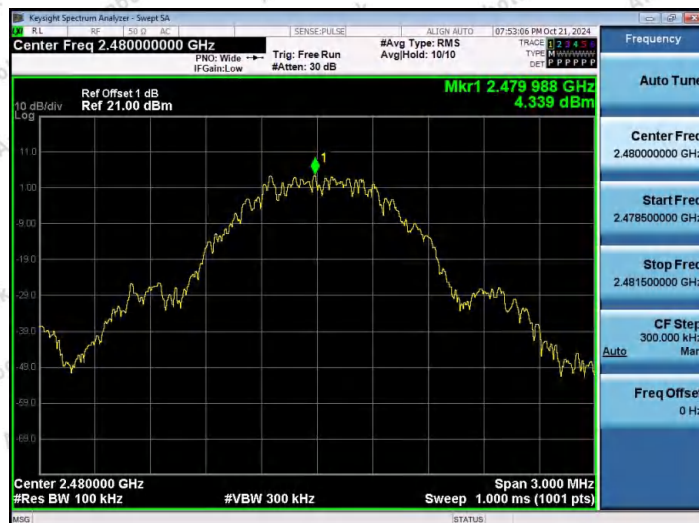
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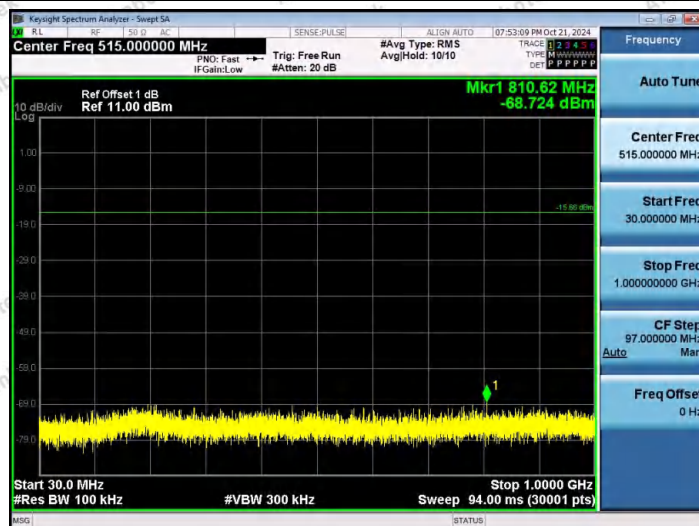


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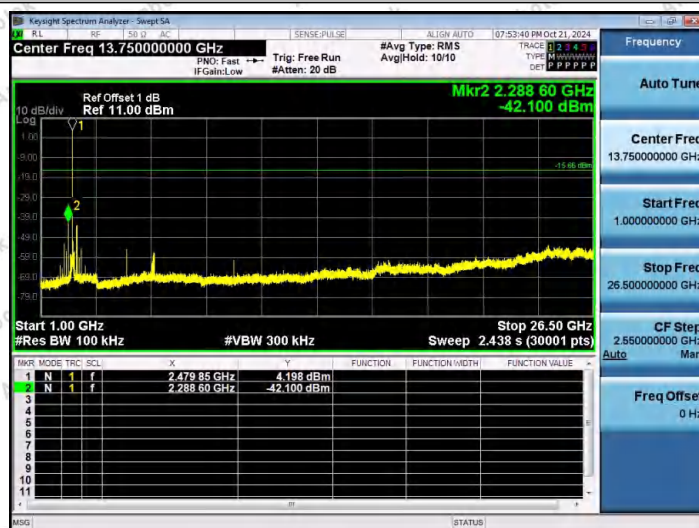




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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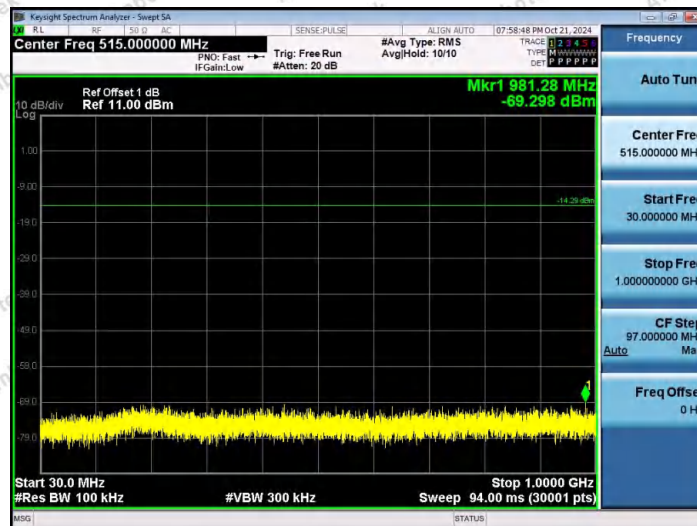


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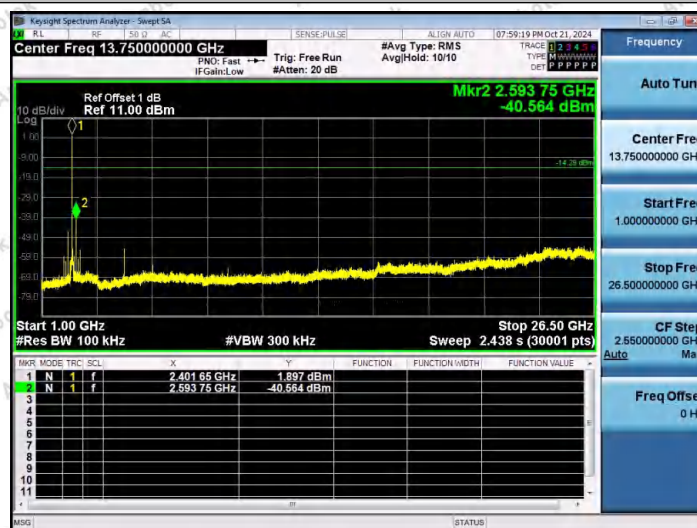




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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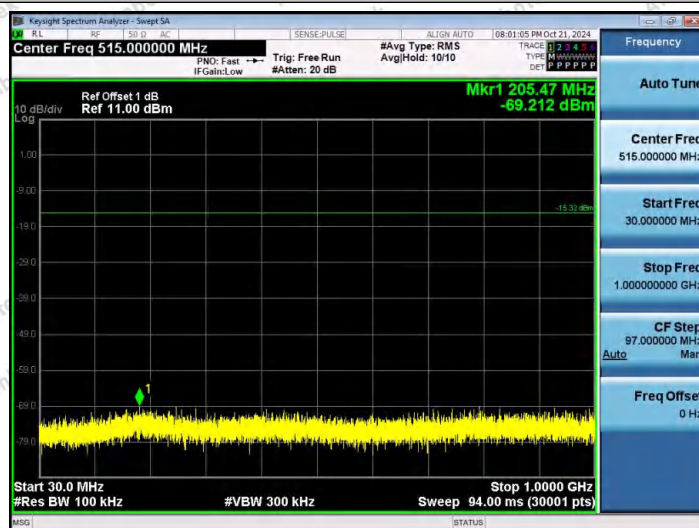


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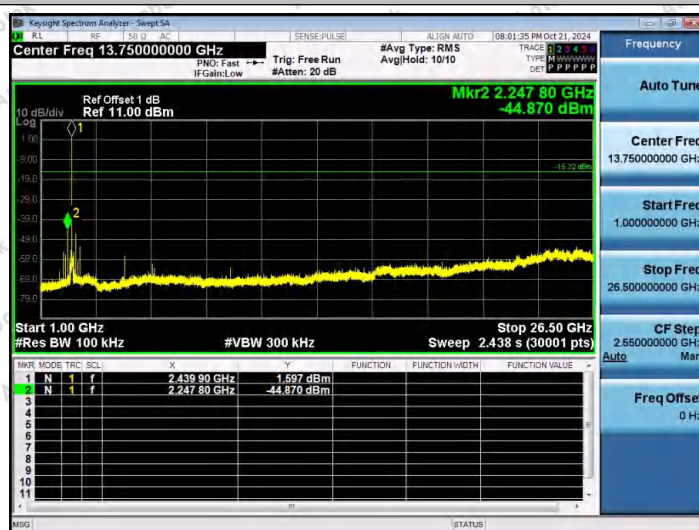




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BLE_2M-Ant1-2440-30~1000-PASS

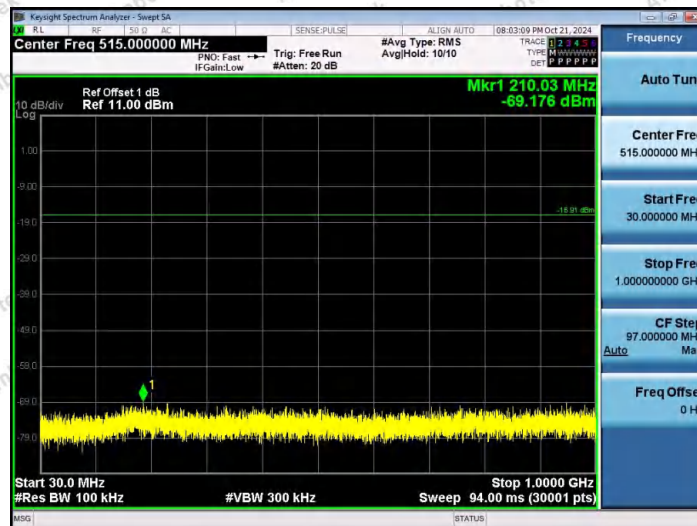


BLE_2M-Ant1-2440-1000~26500-PASS

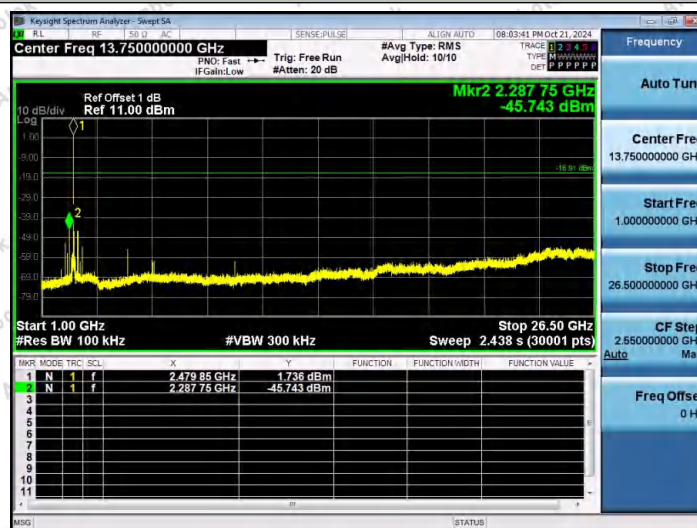




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



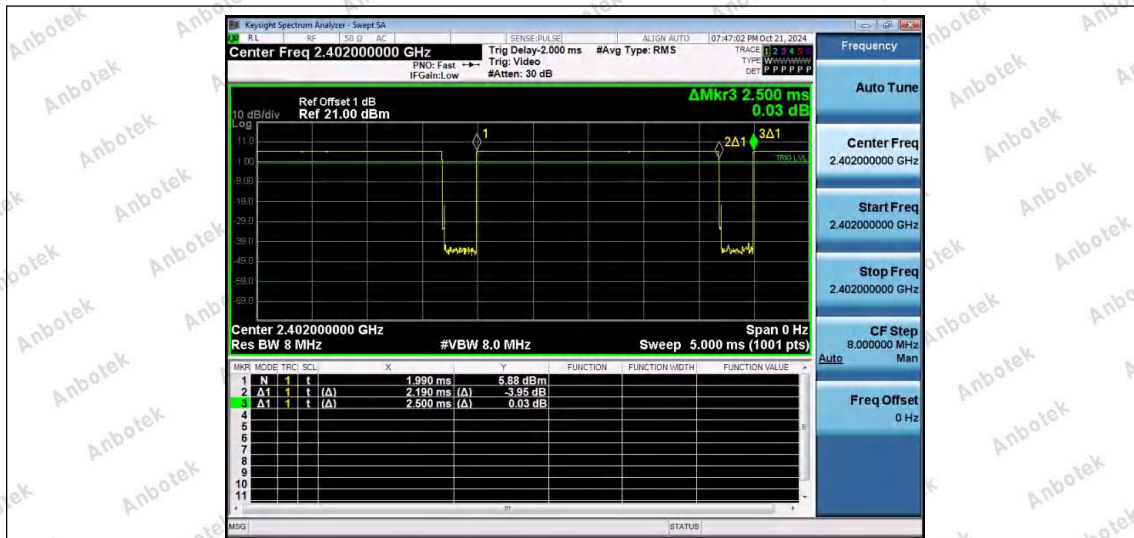
Appendix G: Duty Cycle

Test Result

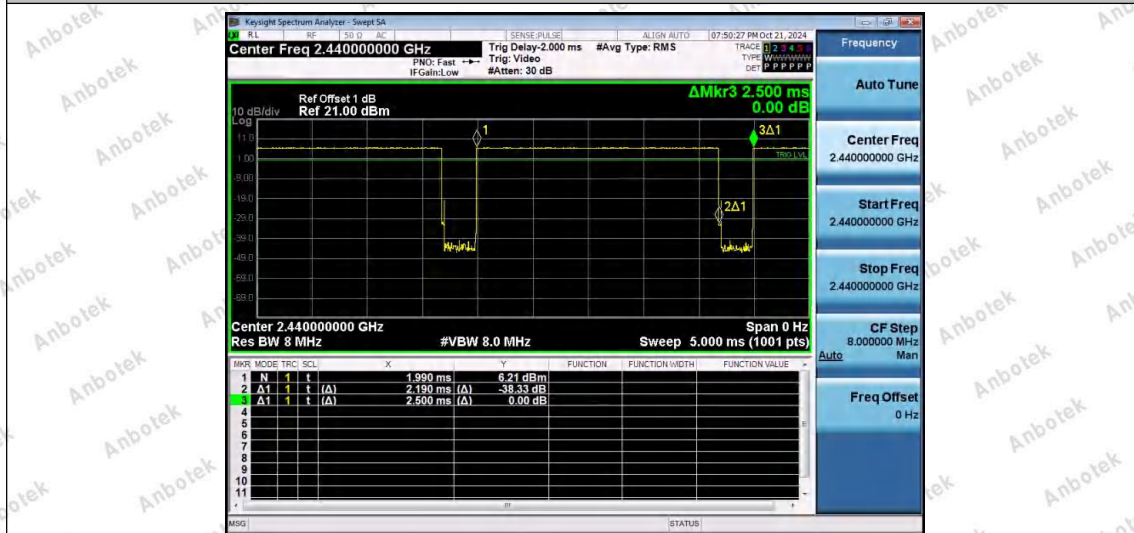
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.19	2.50	87.60	0.57
BLE_1M	Ant1	2440	2.19	2.50	87.60	0.57
BLE_1M	Ant1	2480	2.19	2.50	87.60	0.57
BLE_2M	Ant1	2402	1.13	2.50	45.20	3.45
BLE_2M	Ant1	2440	1.13	2.50	45.20	3.45
BLE_2M	Ant1	2480	1.13	2.50	45.20	3.45



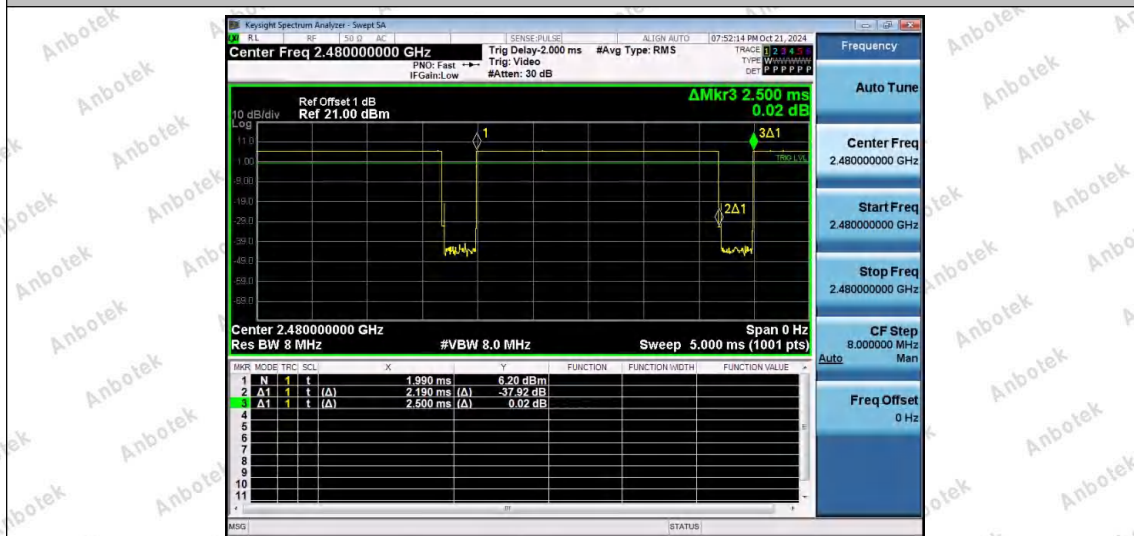
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

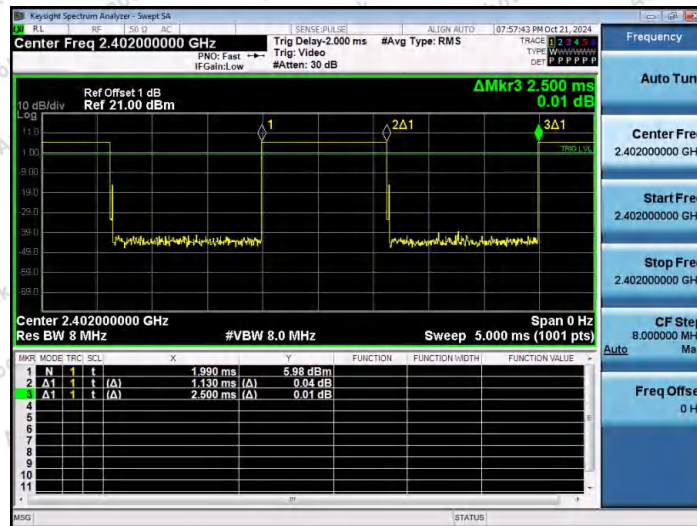
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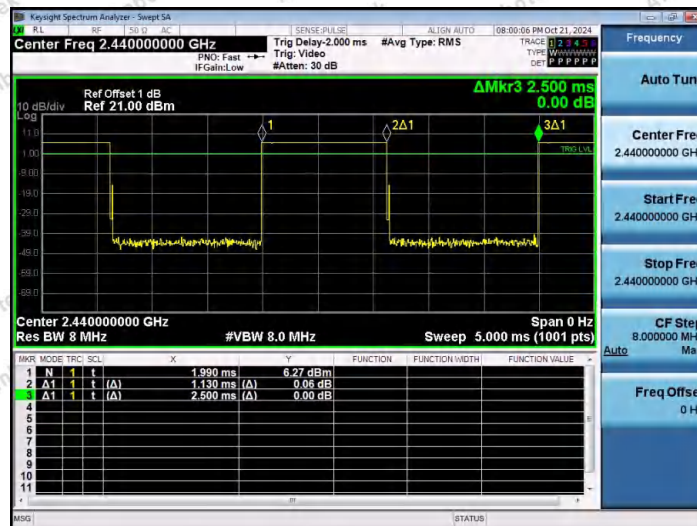


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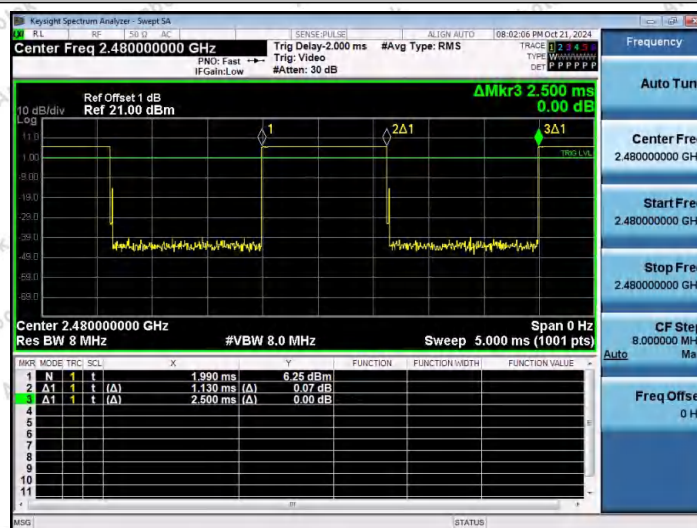




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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