

Appendix Test Data

Report No.:	18220WC40082601	Test Sample No.:	1-2-2
Start Test Date:	2024.04.28	Finish Test Date:	2024.04.29
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

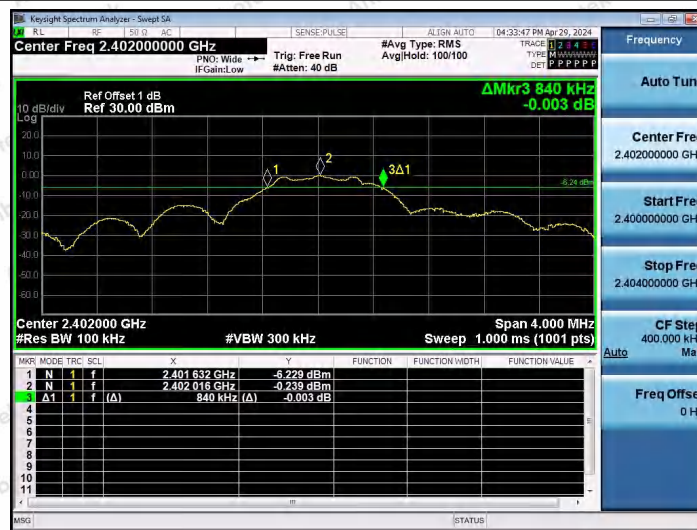
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.840	2401.632	2402.472	0.5	PASS
BLE_1M	Ant1	2440	0.760	2439.640	2440.400	0.5	PASS
BLE_1M	Ant1	2480	0.716	2479.632	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.028	2401.484	2402.512	0.5	PASS
BLE_2M	Ant1	2440	1.020	2439.492	2440.512	0.5	PASS
BLE_2M	Ant1	2480	1.012	2479.488	2480.500	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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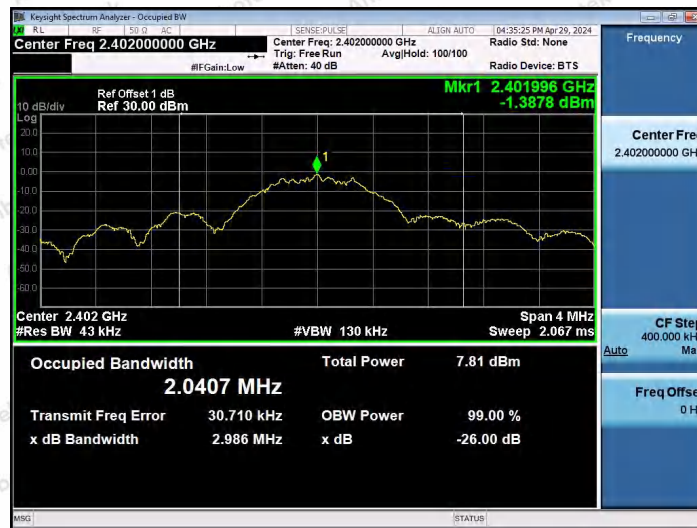
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	2.0407	2401.0104	2403.0511	---	---
BLE_1M	Ant1	2440	1.8228	2439.1216	2440.9444	---	---
BLE_1M	Ant1	2480	1.2712	2479.3636	2480.6348	---	---
BLE_2M	Ant1	2402	2.3044	2400.8504	2403.1548	---	---
BLE_2M	Ant1	2440	2.2373	2438.8998	2441.1371	---	---
BLE_2M	Ant1	2480	2.2306	2478.8917	2481.1223	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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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	0.25	≤30	PASS
BLE_1M	Ant1	2440	1.30	≤30	PASS
BLE_1M	Ant1	2480	2.29	≤30	PASS
BLE_2M	Ant1	2402	0.30	≤30	PASS
BLE_2M	Ant1	2440	1.35	≤30	PASS
BLE_2M	Ant1	2480	2.33	≤30	PASS



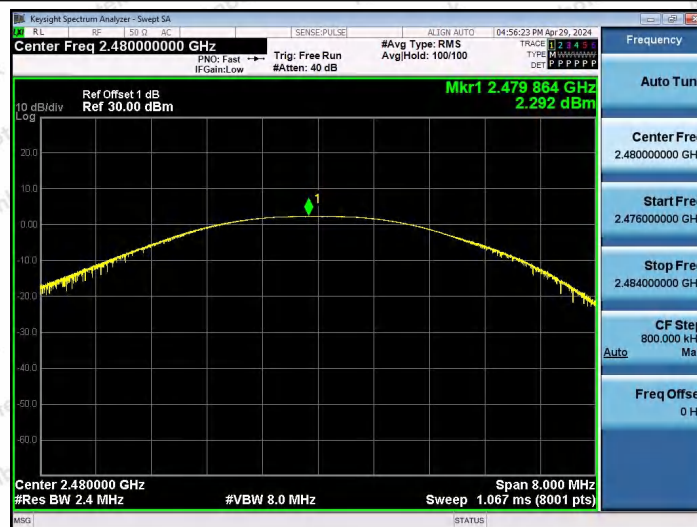
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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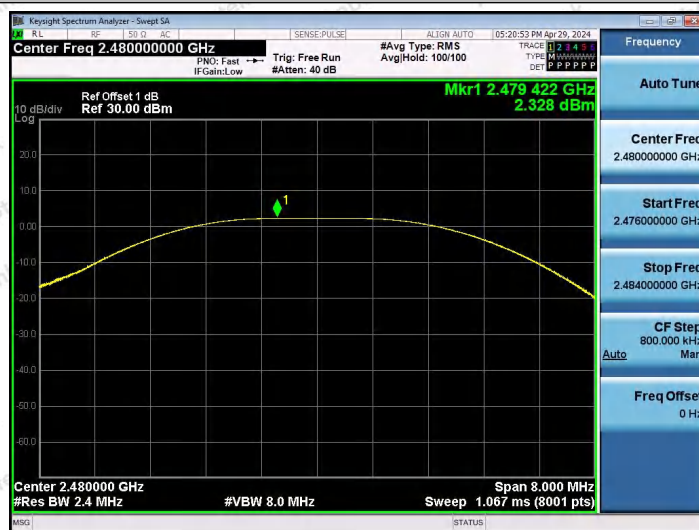




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.37	≤8.00	PASS
BLE_1M	Ant1	2440	-12.38	≤8.00	PASS
BLE_1M	Ant1	2480	-11.56	≤8.00	PASS
BLE_2M	Ant1	2402	-15.48	≤8.00	PASS
BLE_2M	Ant1	2440	-14.99	≤8.00	PASS
BLE_2M	Ant1	2480	-13.73	≤8.00	PASS



Test Graphs



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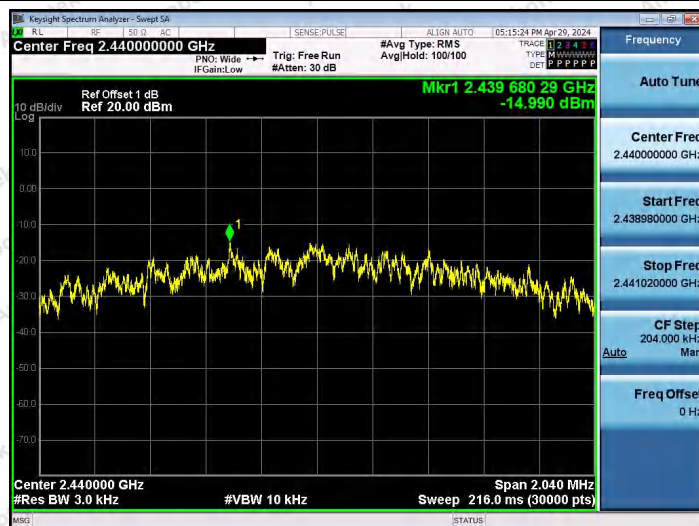


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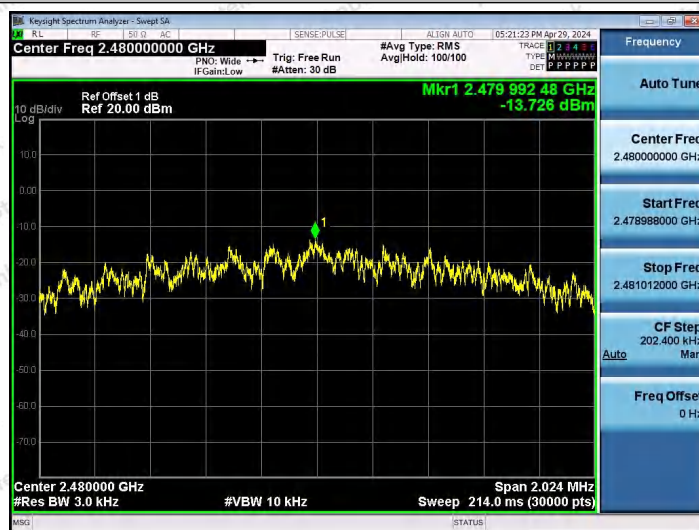




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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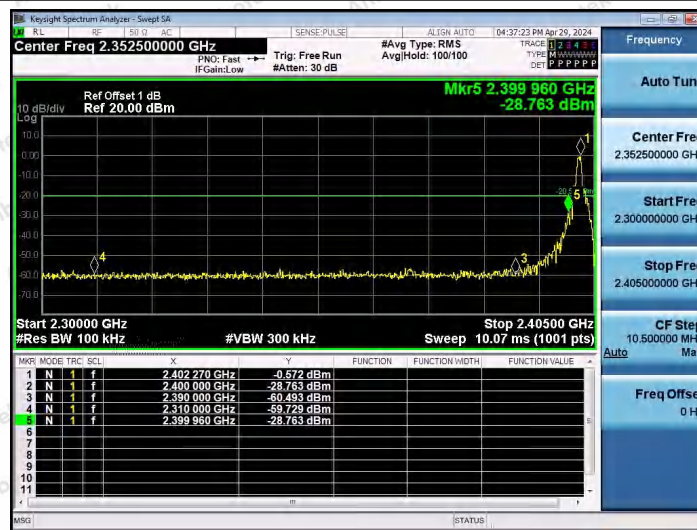
Appendix E: Band edge measurements

Test Result

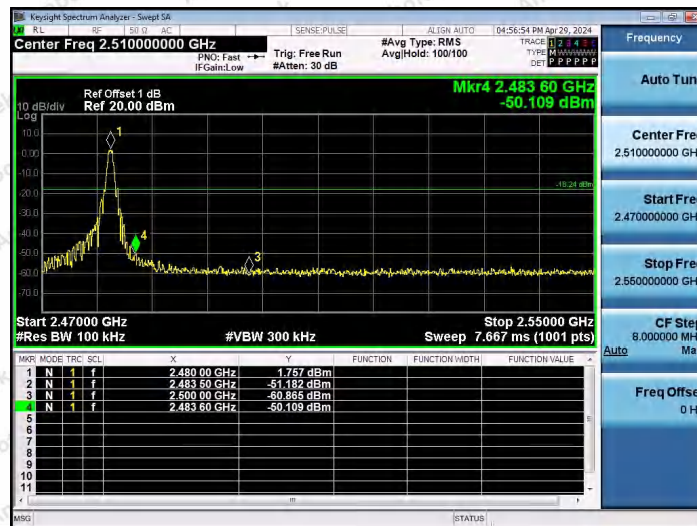
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.57	-28.76	≤-20.57	PASS
BLE_1M	Ant1	High	2480	1.76	-50.11	≤-18.24	PASS
BLE_2M	Ant1	Low	2402	-0.37	-28.63	≤-20.37	PASS
BLE_2M	Ant1	High	2480	1.73	-48.22	≤-18.27	PASS



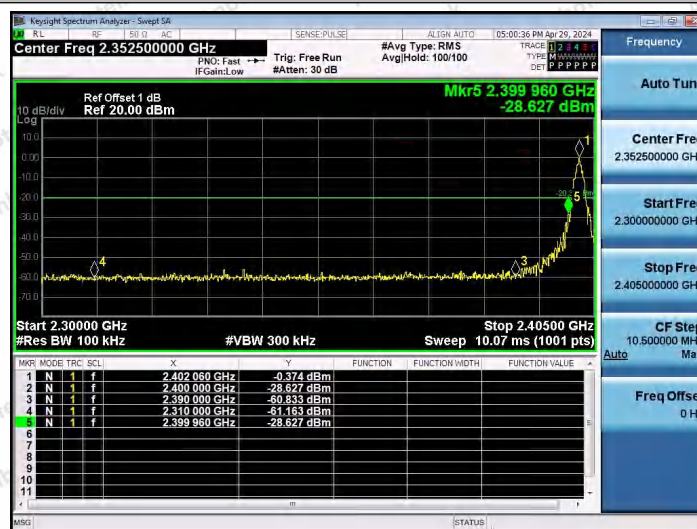
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

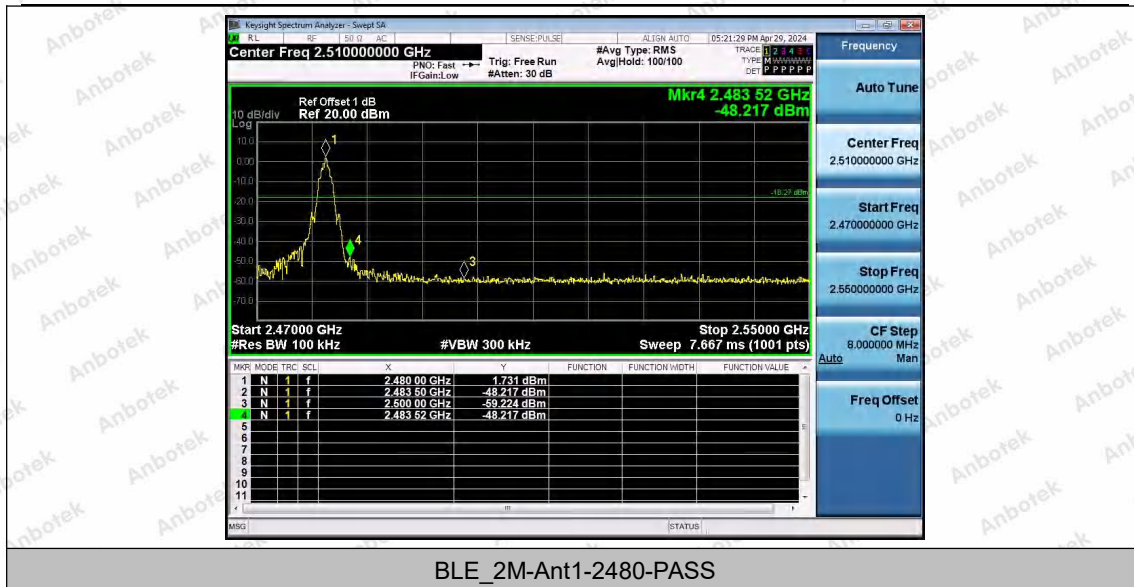
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BLE_2M-Ant1-2480-PASS

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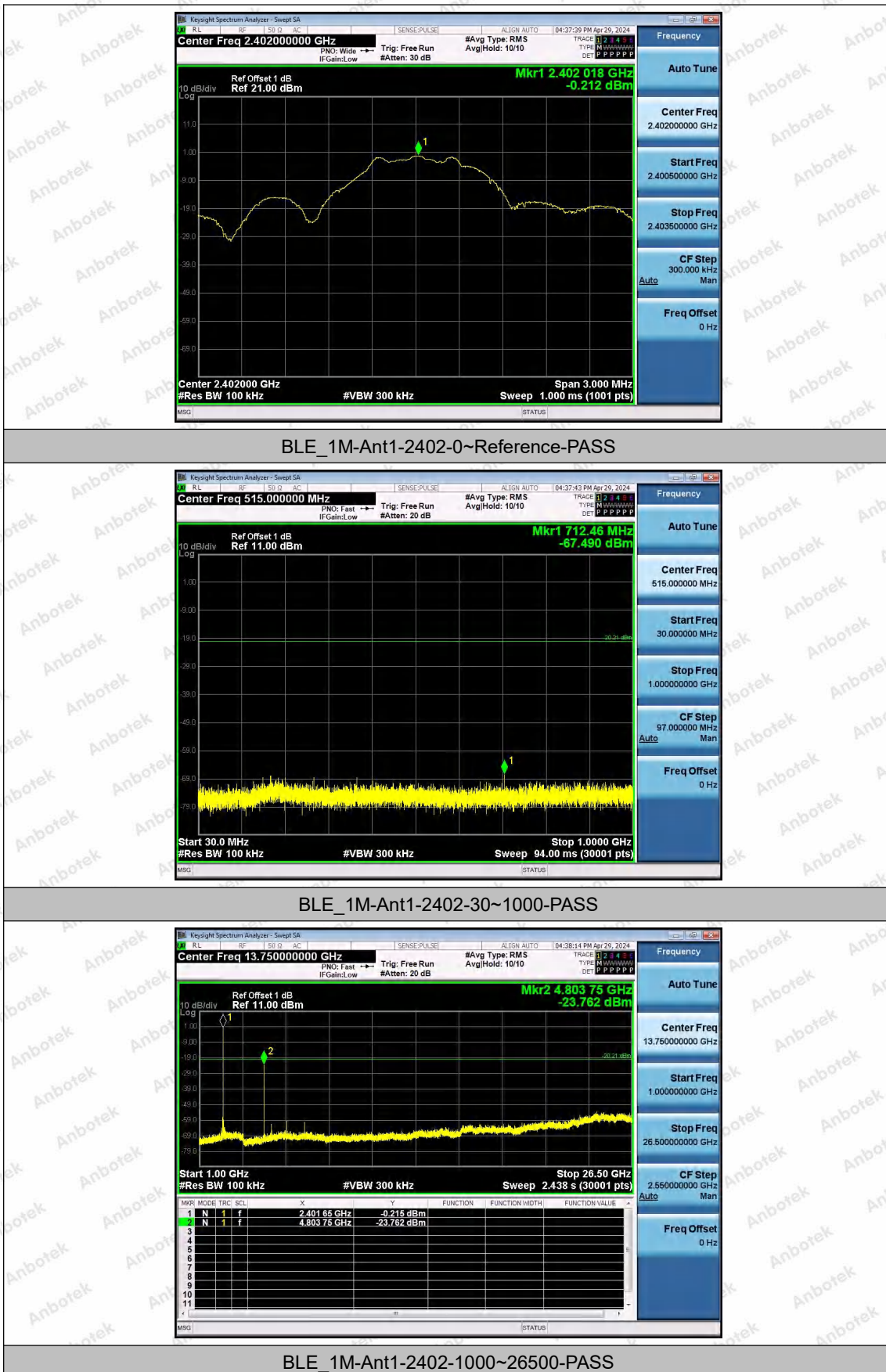
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.21	-0.21	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.21	-67.49	≤-20.21	PASS
BLE_1M	Ant1	2402	1000~26500	-0.21	-23.76	≤-20.21	PASS
BLE_1M	Ant1	2440	0~Reference	0.87	0.87	---	PASS
BLE_1M	Ant1	2440	30~1000	0.87	-67.96	≤-19.13	PASS
BLE_1M	Ant1	2440	1000~26500	0.87	-23.78	≤-19.13	PASS
BLE_1M	Ant1	2480	0~Reference	2.01	2.01	---	PASS
BLE_1M	Ant1	2480	30~1000	2.01	-67.5	≤-17.99	PASS
BLE_1M	Ant1	2480	1000~26500	2.01	-22.25	≤-17.99	PASS
BLE_2M	Ant1	2402	0~Reference	-0.23	-0.23	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.23	-66.64	≤-20.23	PASS
BLE_2M	Ant1	2402	1000~26500	-0.23	-23.79	≤-20.23	PASS
BLE_2M	Ant1	2440	0~Reference	0.87	0.87	---	PASS
BLE_2M	Ant1	2440	30~1000	0.87	-67.7	≤-19.13	PASS
BLE_2M	Ant1	2440	1000~26500	0.87	-22.76	≤-19.13	PASS
BLE_2M	Ant1	2480	0~Reference	1.96	1.96	---	PASS
BLE_2M	Ant1	2480	30~1000	1.96	-68.18	≤-18.04	PASS
BLE_2M	Ant1	2480	1000~26500	1.96	-22.97	≤-18.04	PASS



Test Graphs



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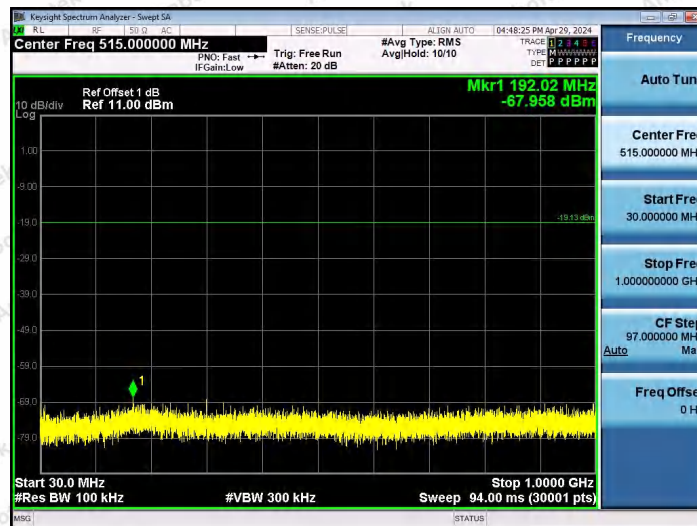


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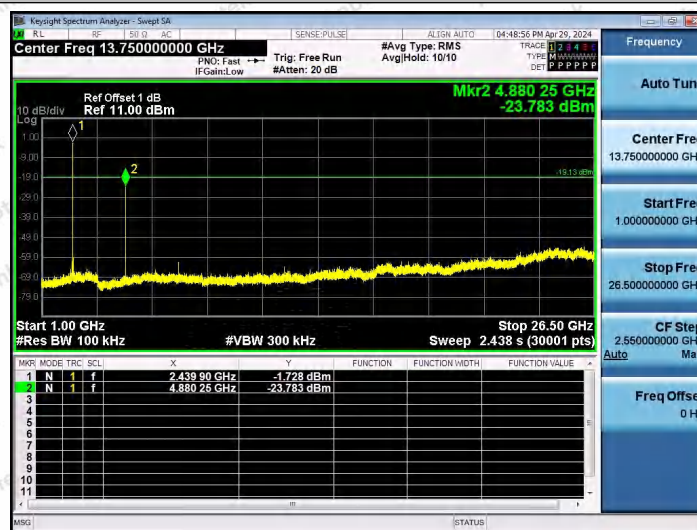




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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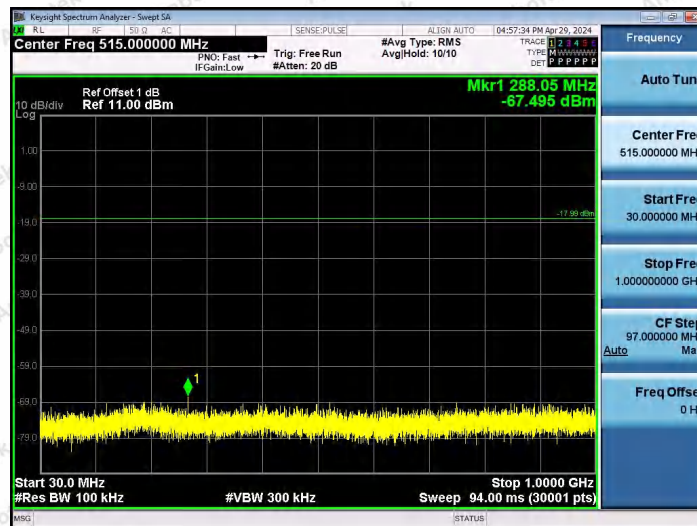


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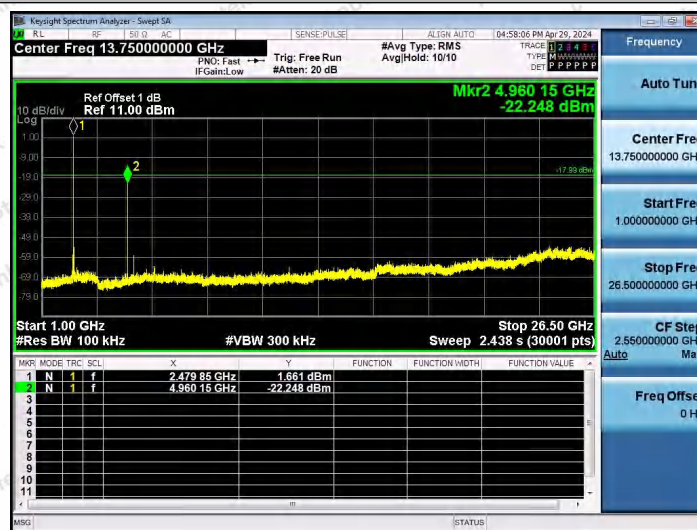




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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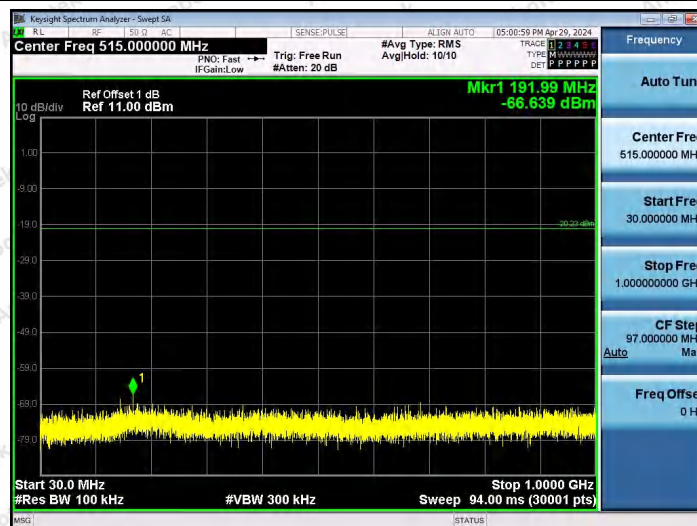


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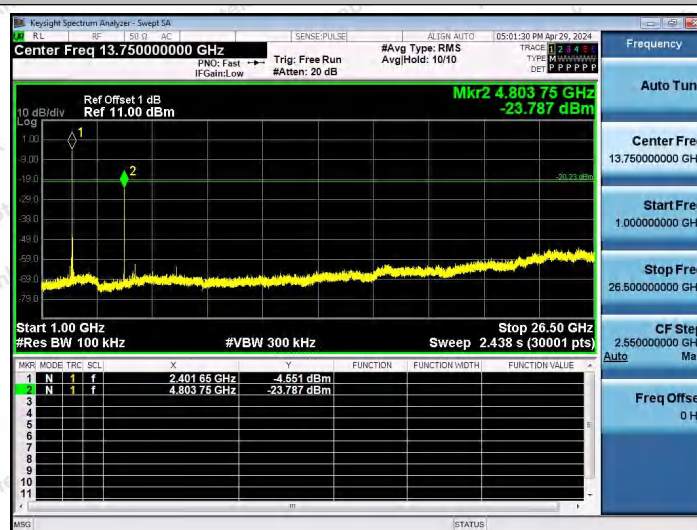




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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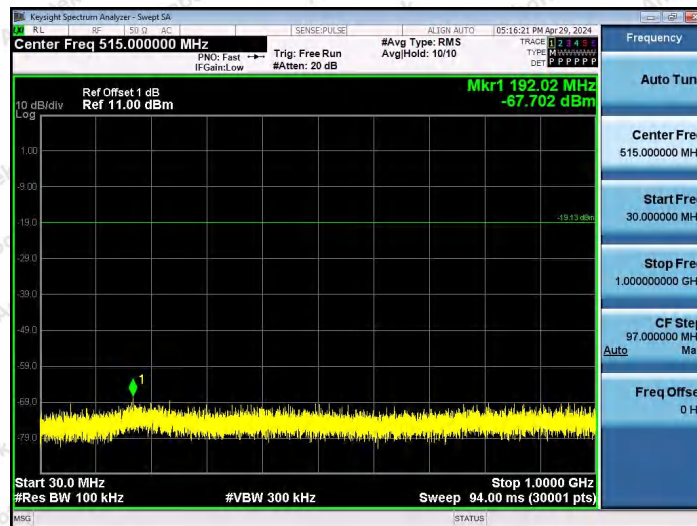


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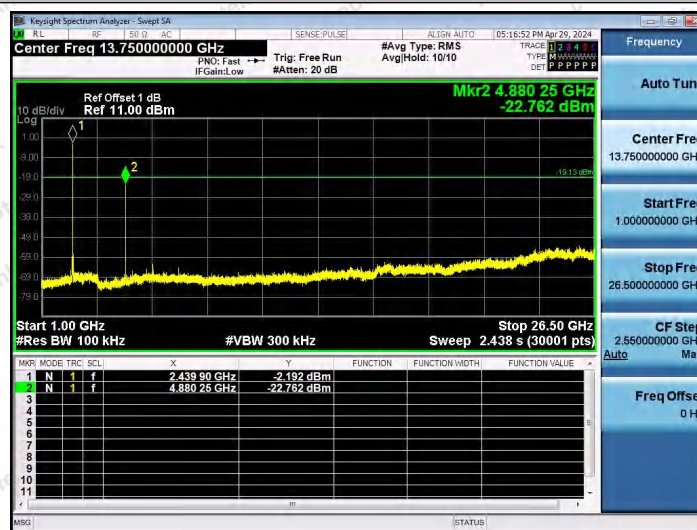




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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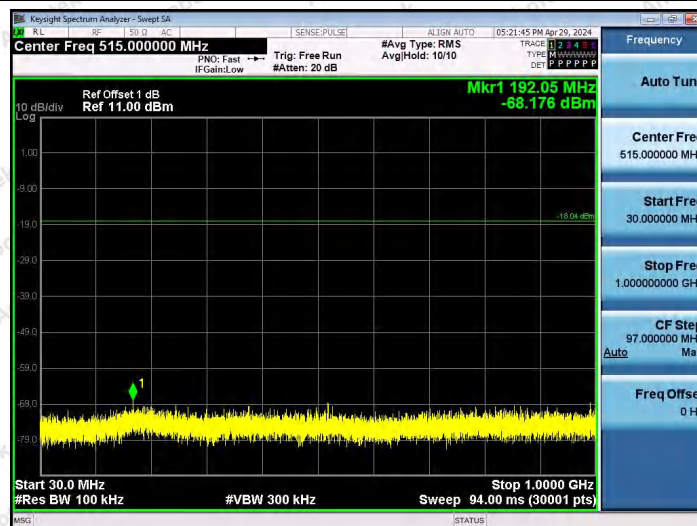


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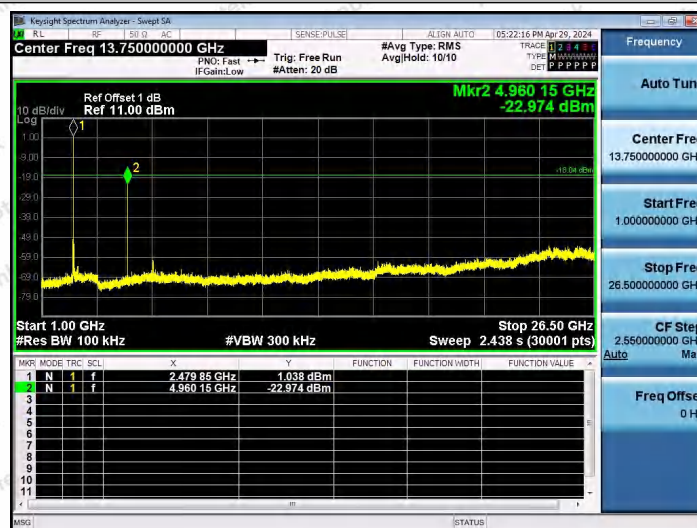




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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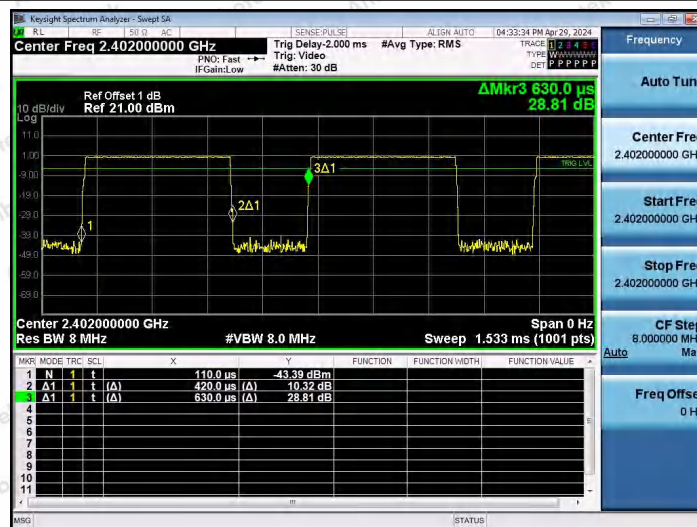
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.42	0.63	66.67	1.76
BLE_1M	Ant1	2440	0.42	0.63	66.67	1.76
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2440	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2480	0.23	0.63	36.51	4.38



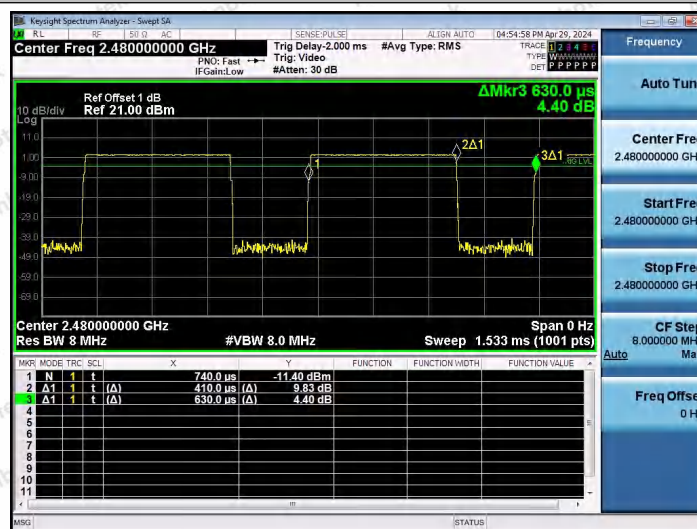
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

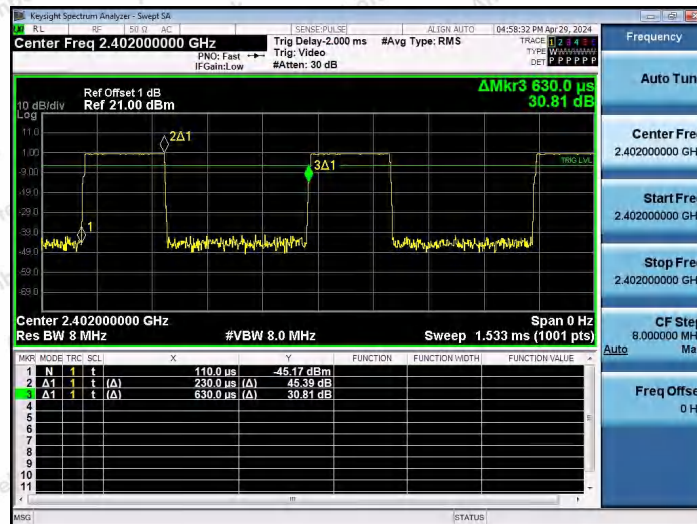
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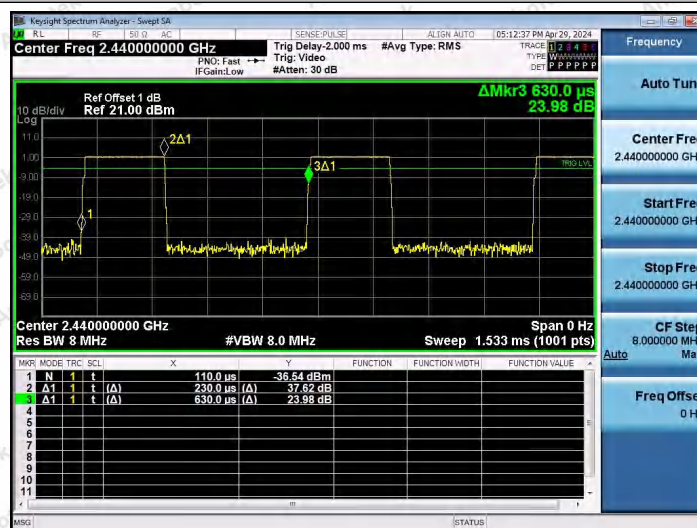


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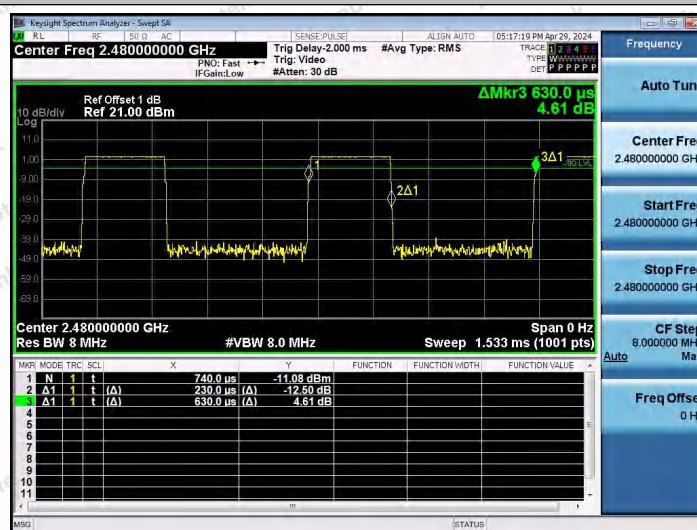




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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