

Appendix Test Data

Report No.:	182512C400308101	Test Sample No.:	1-2-2
Start Test Date:	2024.7.23	Finish Test Date:	2024.7.23
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.5℃	Relative Humidity:	47%
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	0.632	2401.772	2402.404	0.5	PASS
BLE_1M	Ant1	2440	0.620	2439.768	2440.388	0.5	PASS
BLE_1M	Ant1	2480	0.572	2479.768	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.488	2402.628	0.5	PASS
BLE_2M	Ant1	2440	1.148	2439.480	2440.628	0.5	PASS
BLE_2M	Ant1	2480	1.004	2479.492	2480.496	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



Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0779	2401.5666	2402.6445	---	---
BLE_1M	Ant1	2440	1.0107	2439.6295	2440.6402	---	---
BLE_1M	Ant1	2480	1.0267	2479.6174	2480.6441	---	---
BLE_2M	Ant1	2402	2.0194	2401.1250	2403.1444	---	---
BLE_2M	Ant1	2440	2.0254	2439.1295	2441.1549	---	---
BLE_2M	Ant1	2480	2.0365	2479.1238	2481.1603	---	---



Test Graphs



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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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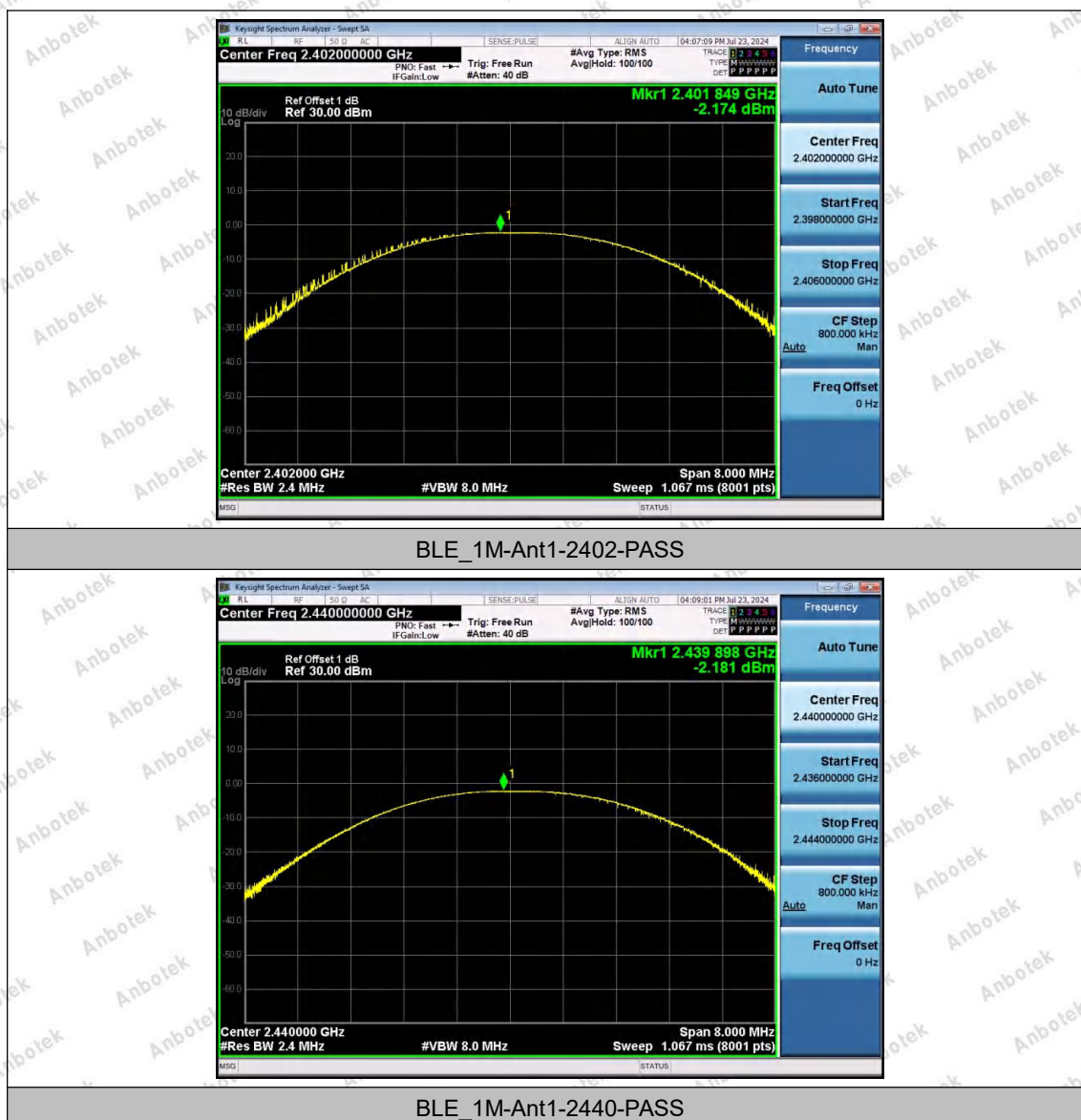


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.17	≤30	PASS
BLE_1M	Ant1	2440	-2.18	≤30	PASS
BLE_1M	Ant1	2480	-1.96	≤30	PASS
BLE_2M	Ant1	2402	-2.19	≤30	PASS
BLE_2M	Ant1	2440	-2.20	≤30	PASS
BLE_2M	Ant1	2480	-1.98	≤30	PASS

Test Graphs Peak



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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



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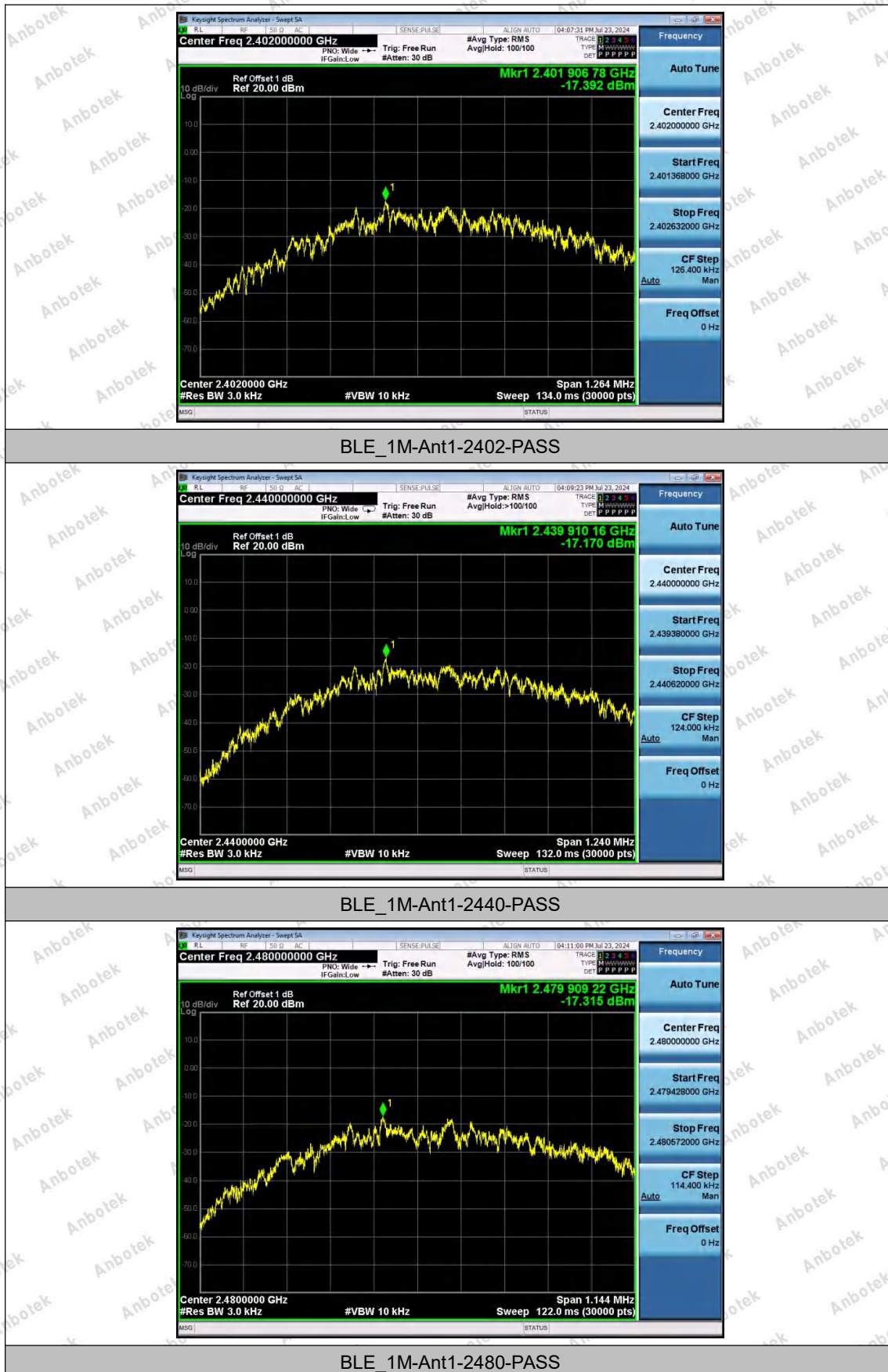
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.39	≤8.00	PASS
BLE_1M	Ant1	2440	-17.17	≤8.00	PASS
BLE_1M	Ant1	2480	-17.32	≤8.00	PASS
BLE_2M	Ant1	2402	-23.11	≤8.00	PASS
BLE_2M	Ant1	2440	-23.86	≤8.00	PASS
BLE_2M	Ant1	2480	-21.92	≤8.00	PASS



Test Graphs



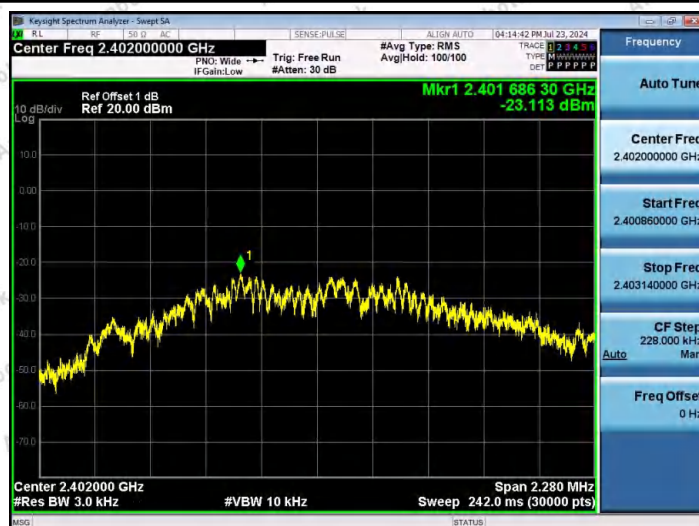
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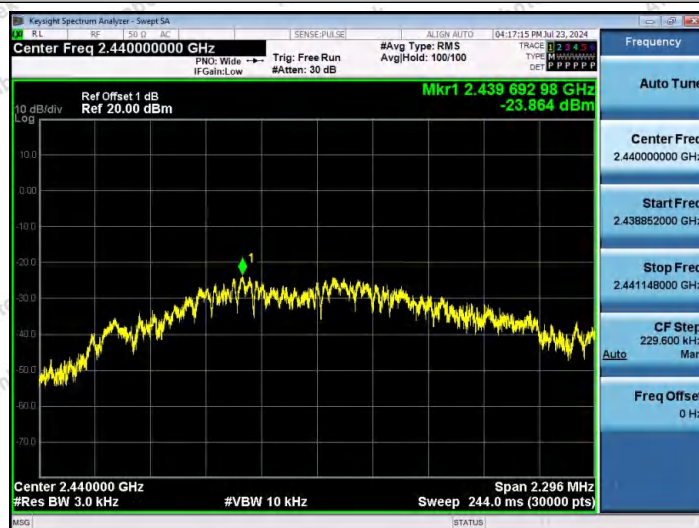


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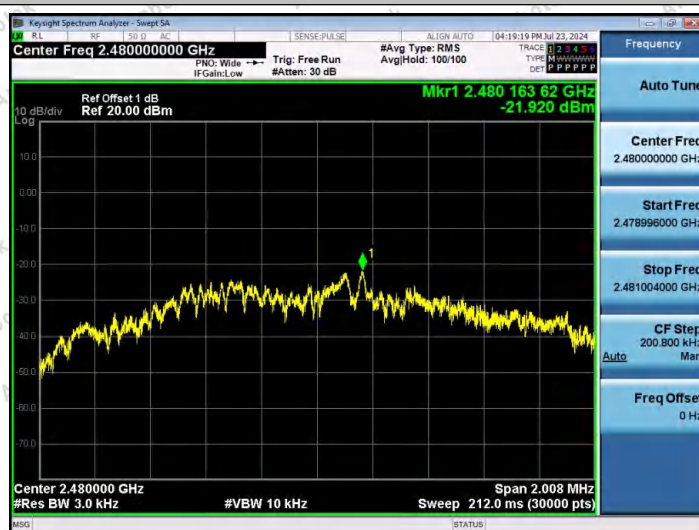




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



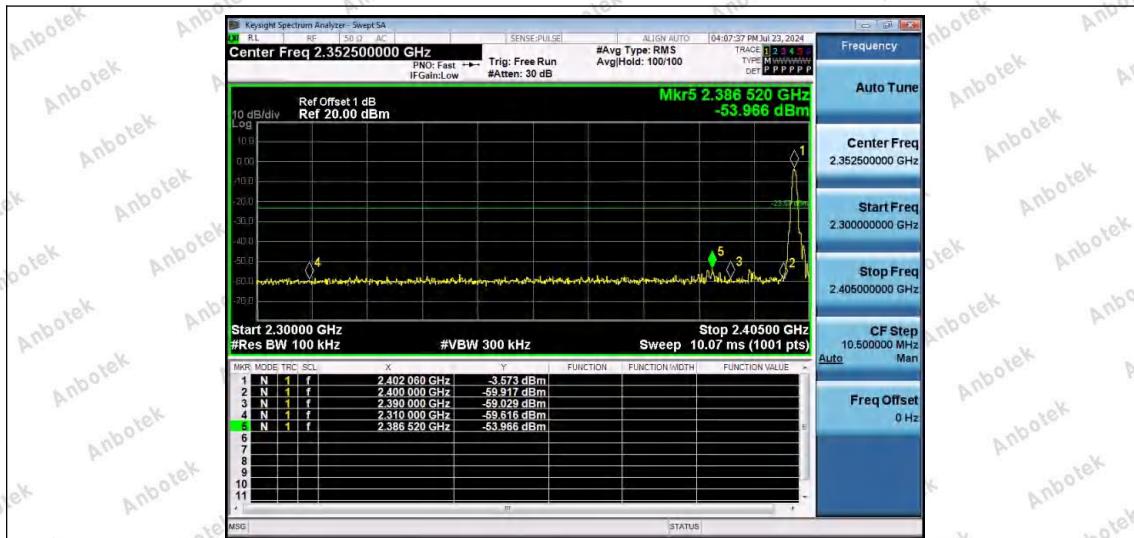
Appendix E: Band edge measurements

Test Result

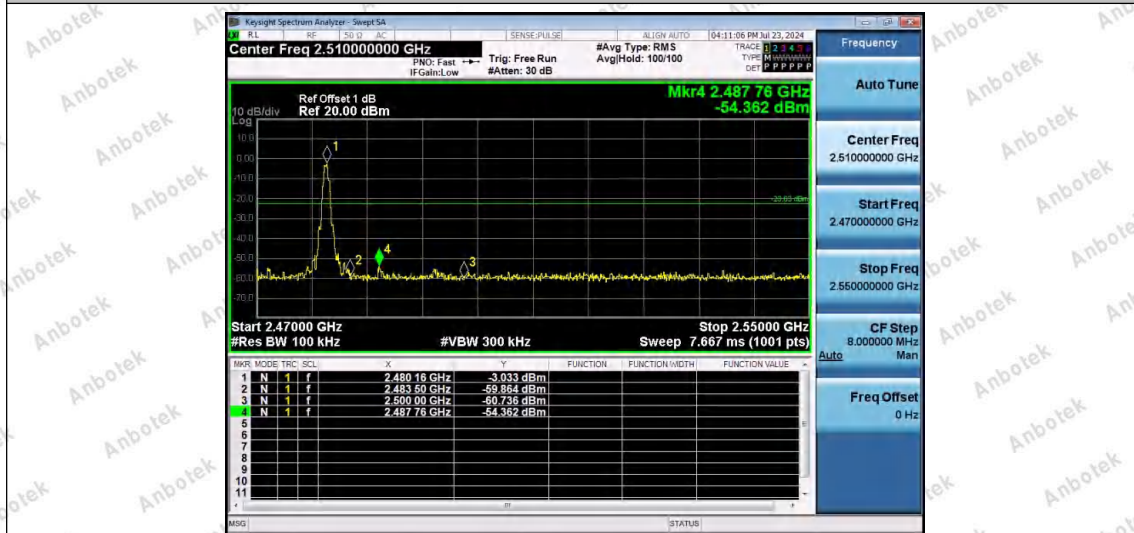
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.57	-53.97	≤-23.57	PASS
BLE_1M	Ant1	High	2480	-3.03	-54.36	≤-23.03	PASS
BLE_2M	Ant1	Low	2402	-5.03	-45.24	≤-25.03	PASS
BLE_2M	Ant1	High	2480	-3.32	-54.89	≤-23.32	PASS



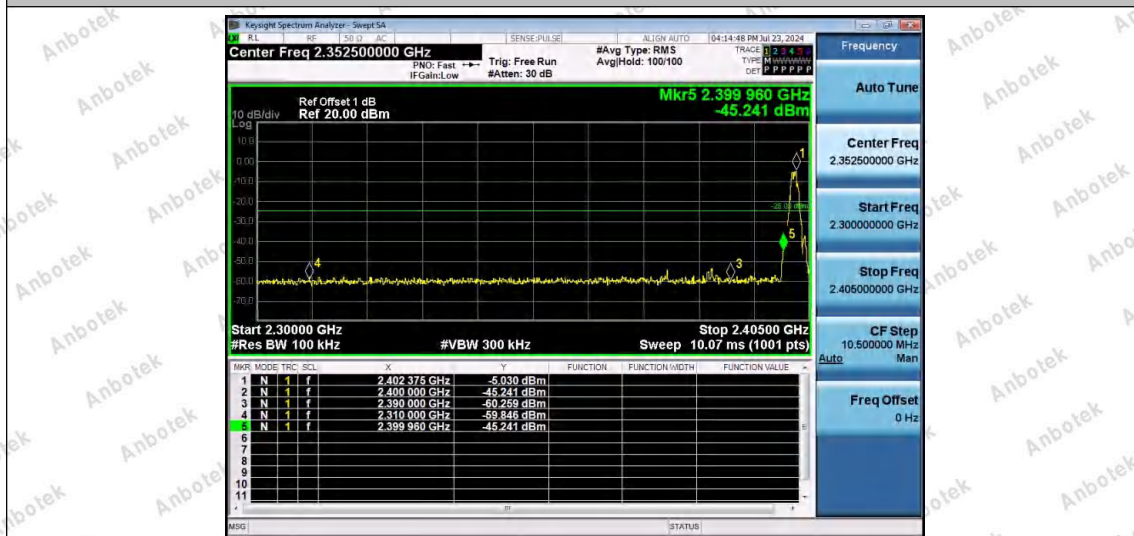
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

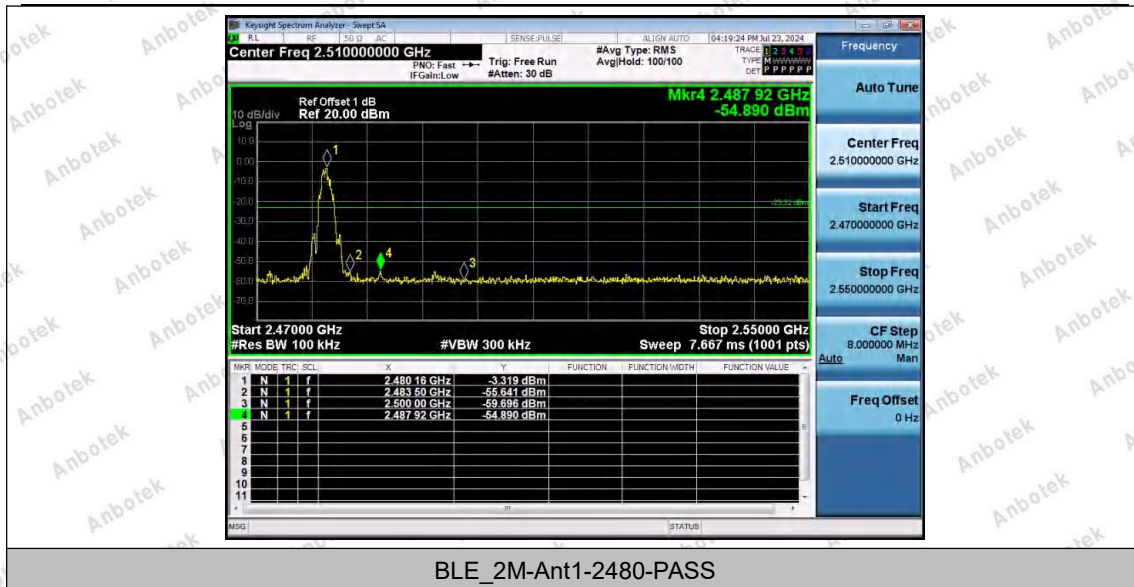
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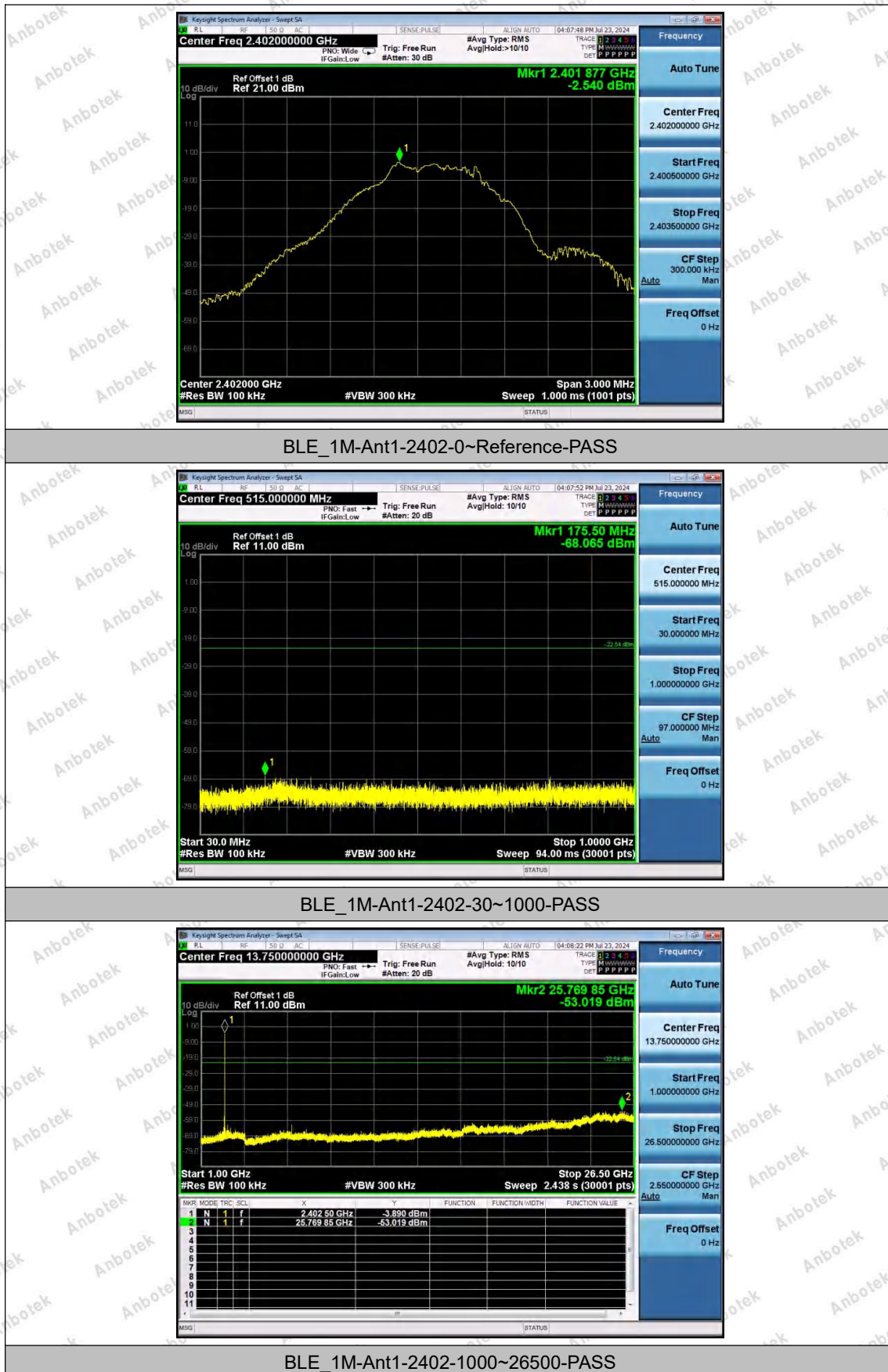
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.54	-2.54	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.54	-68.07	≤-22.54	PASS
BLE_1M	Ant1	2402	1000~26500	-2.54	-53.02	≤-22.54	PASS
BLE_1M	Ant1	2440	0~Reference	-3.82	-3.82	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.82	-68.36	≤-23.82	PASS
BLE_1M	Ant1	2440	1000~26500	-3.82	-53.4	≤-23.82	PASS
BLE_1M	Ant1	2480	0~Reference	-3.28	-3.28	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.28	-64.99	≤-23.28	PASS
BLE_1M	Ant1	2480	1000~26500	-3.28	-53.72	≤-23.28	PASS
BLE_2M	Ant1	2402	0~Reference	-5.09	-5.09	---	PASS
BLE_2M	Ant1	2402	30~1000	-5.09	-64.06	≤-25.09	PASS
BLE_2M	Ant1	2402	1000~26500	-5.09	-54.2	≤-25.09	PASS
BLE_2M	Ant1	2440	0~Reference	-3.54	-3.54	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.54	-68.31	≤-23.54	PASS
BLE_2M	Ant1	2440	1000~26500	-3.54	-52.27	≤-23.54	PASS
BLE_2M	Ant1	2480	0~Reference	-3.18	-3.18	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.18	-67.05	≤-23.18	PASS
BLE_2M	Ant1	2480	1000~26500	-3.18	-53.67	≤-23.18	PASS



Test Graphs



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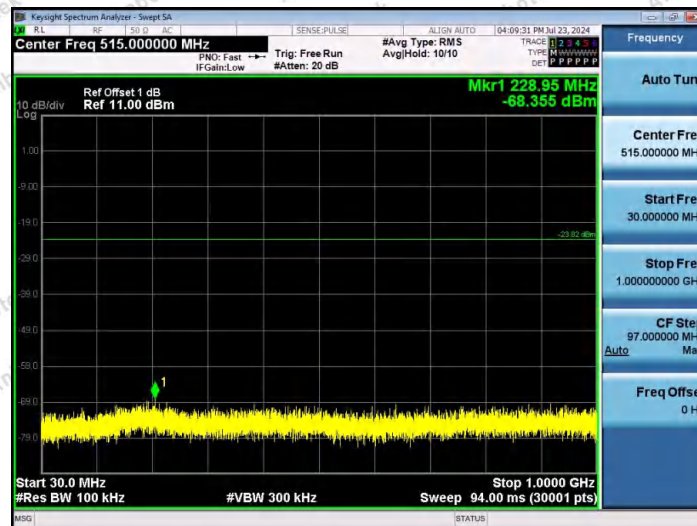


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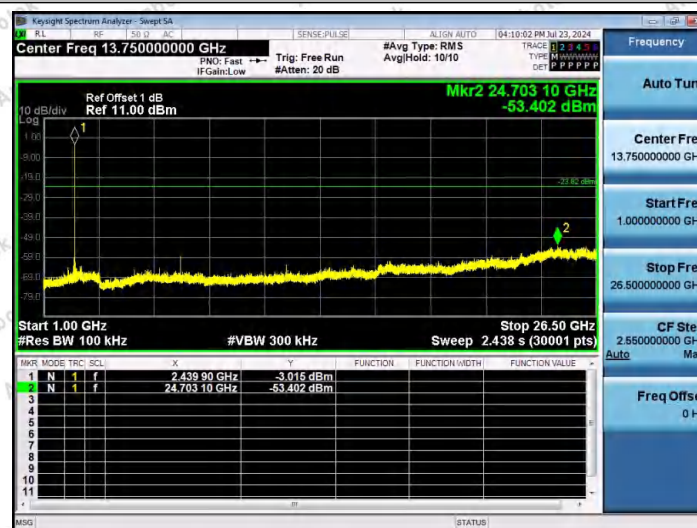




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

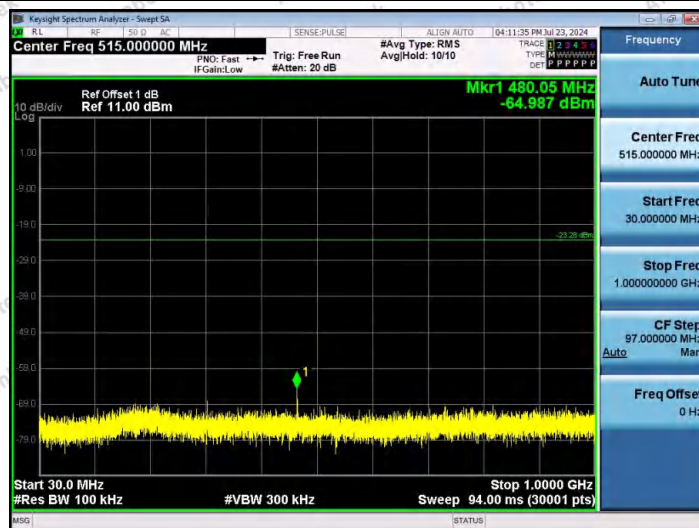


BLE_1M-Ant1-2440-1000~26500-PASS

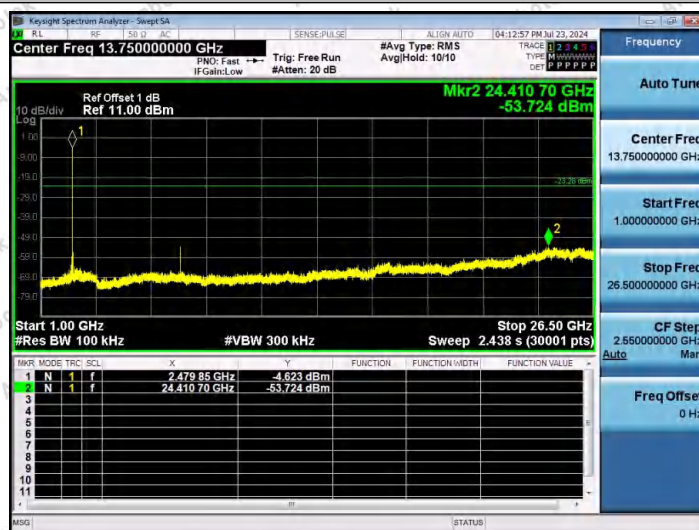




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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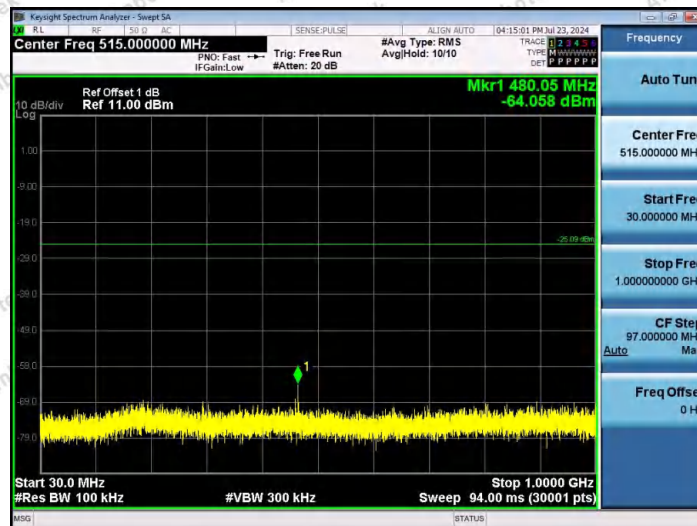


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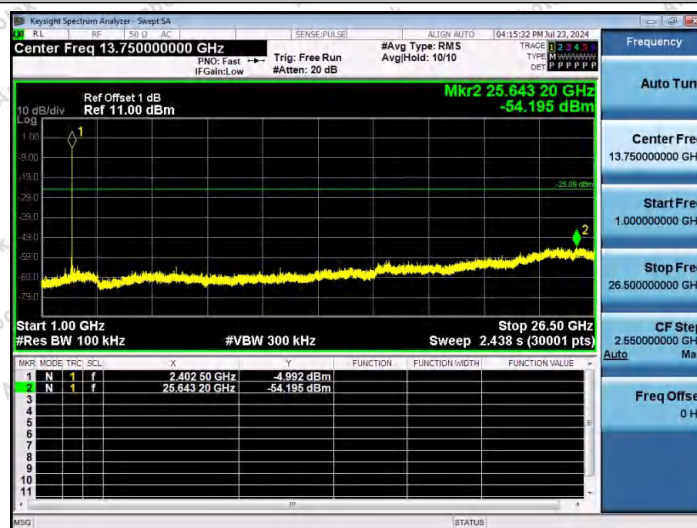




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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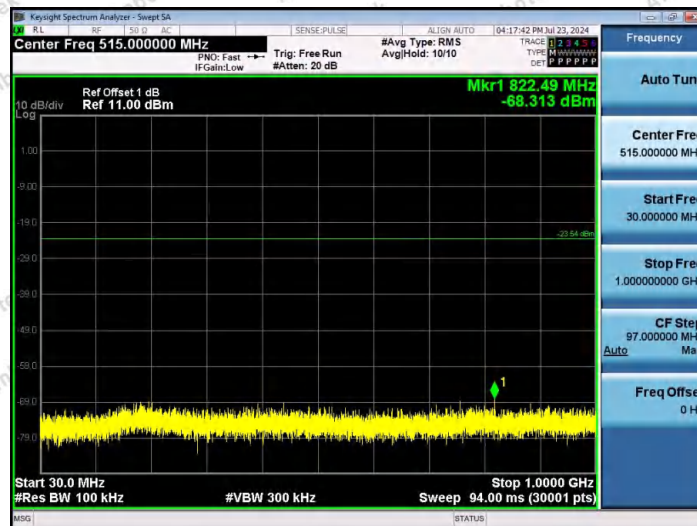


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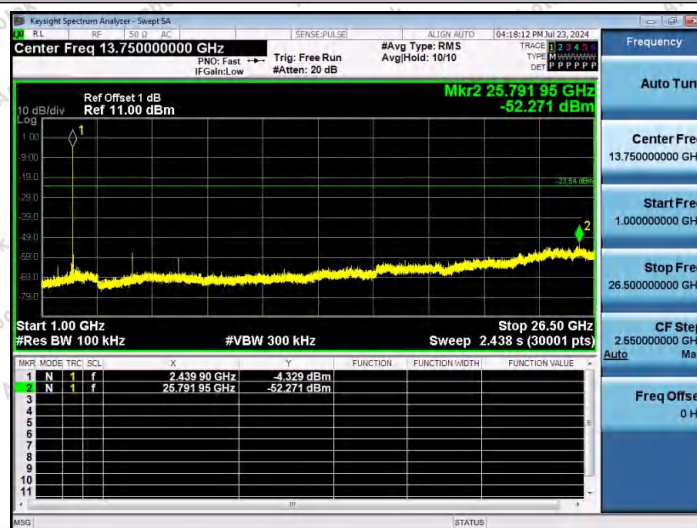




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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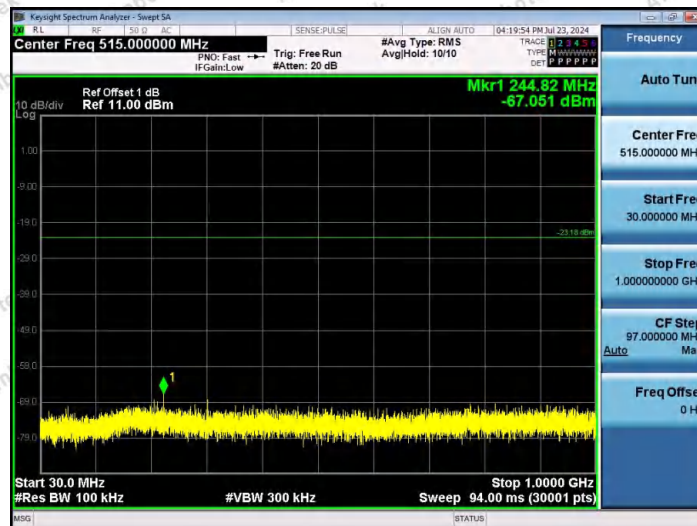


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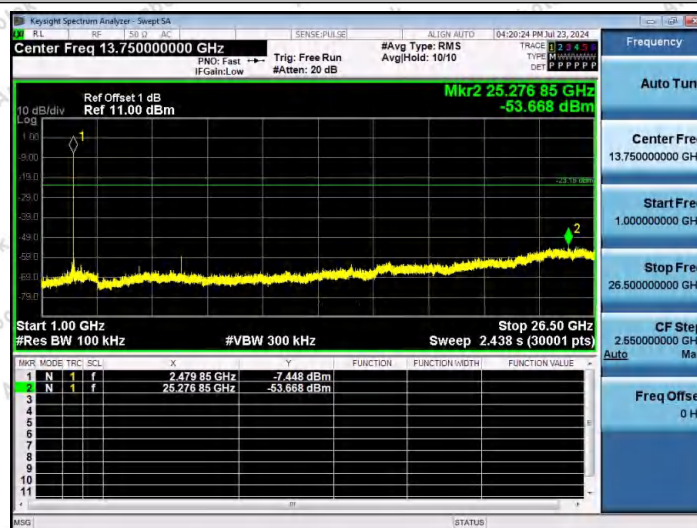




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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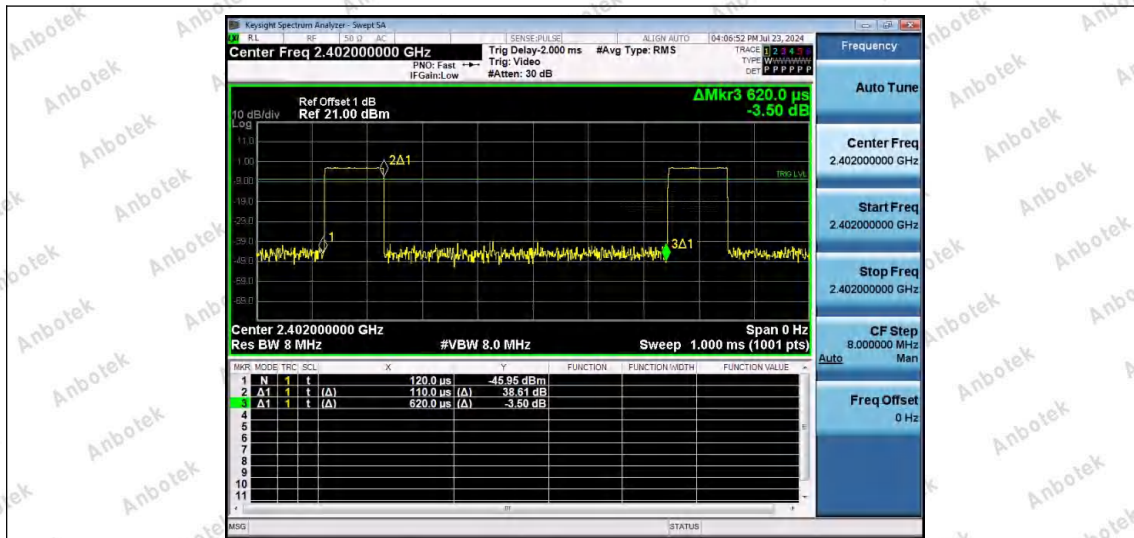
Appendix G: Duty Cycle

Test Result

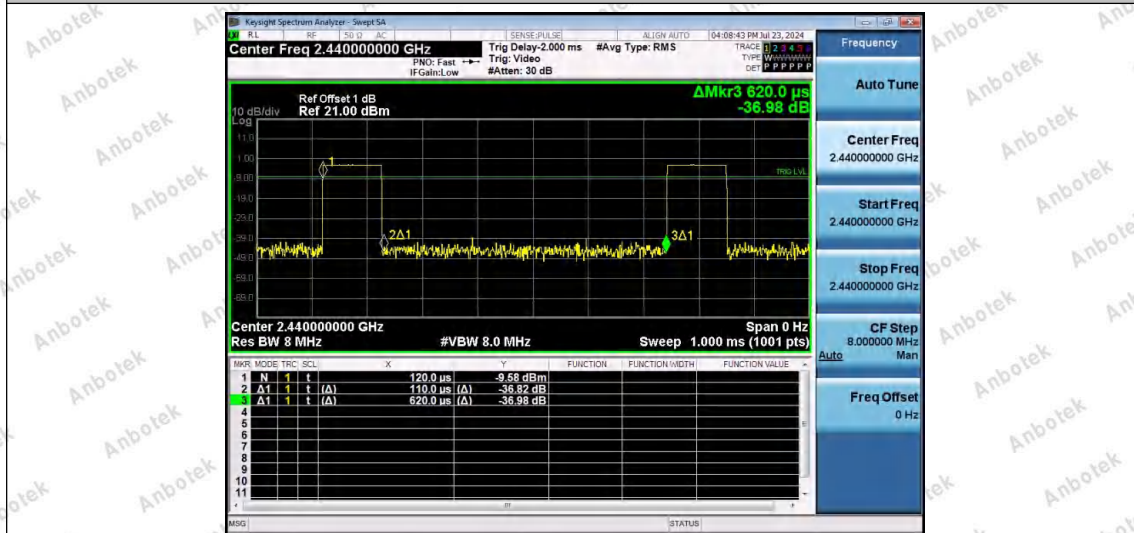
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.11	0.62	17.74	7.51
BLE_1M	Ant1	2440	0.11	0.62	17.74	7.51
BLE_1M	Ant1	2480	0.11	0.62	17.74	7.51
BLE_2M	Ant1	2402	0.06	0.62	9.68	10.14
BLE_2M	Ant1	2440	0.07	0.63	11.11	9.54
BLE_2M	Ant1	2480	0.07	0.63	11.11	9.54



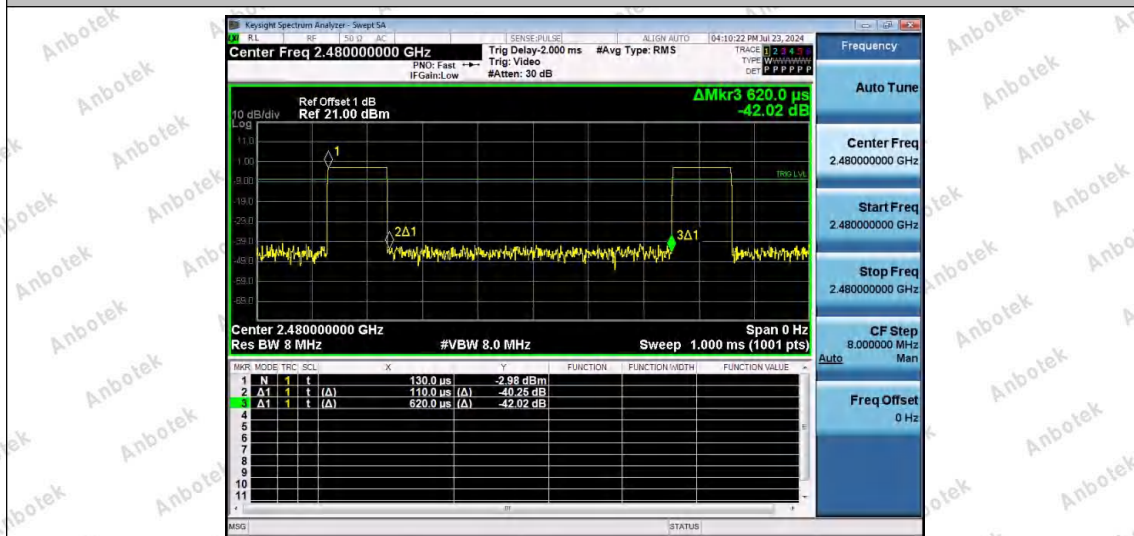
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

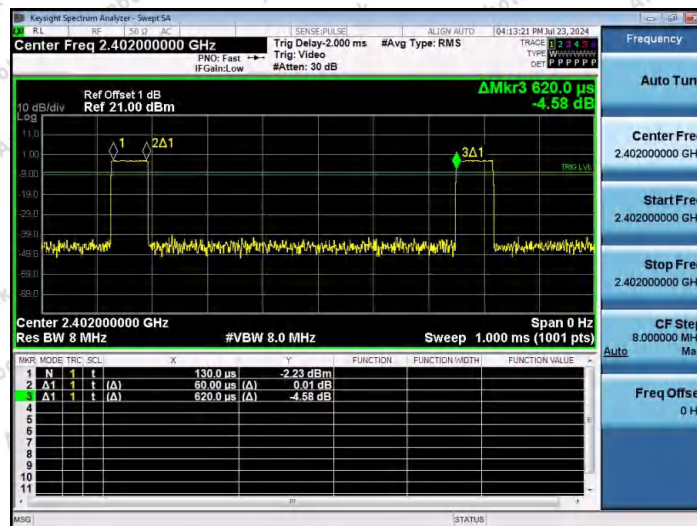
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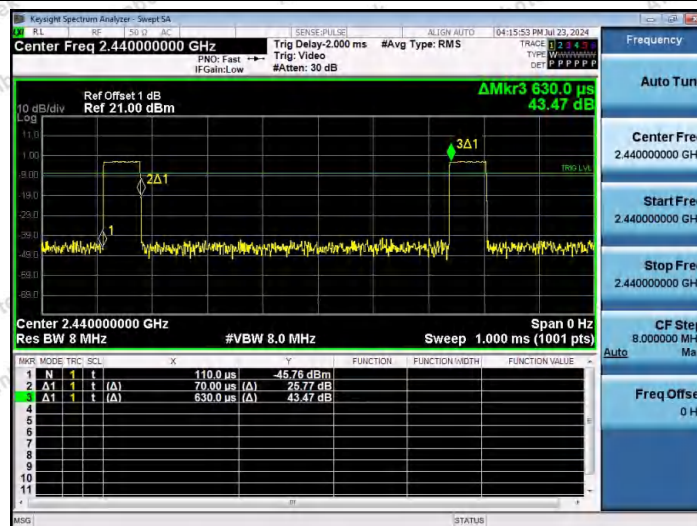


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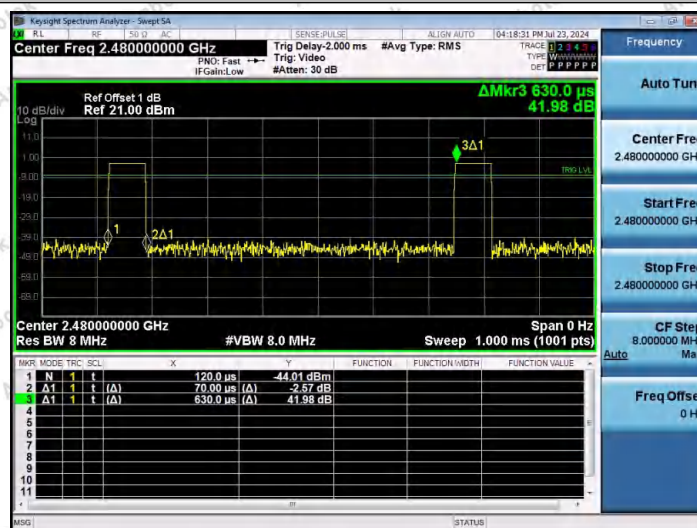




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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