

Appendix Test Data

Report No.:	1812C40204712501	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.07
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°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	0.632	2401.684	2402.316	0.5	PASS
BLE_1M	Ant1	2440	0.640	2439.668	2440.308	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.668	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.160	2401.408	2402.568	0.5	PASS
BLE_2M	Ant1	2440	1.064	2439.468	2440.532	0.5	PASS
BLE_2M	Ant1	2480	1.068	2479.444	2480.512	0.5	PASS

Test Graphs



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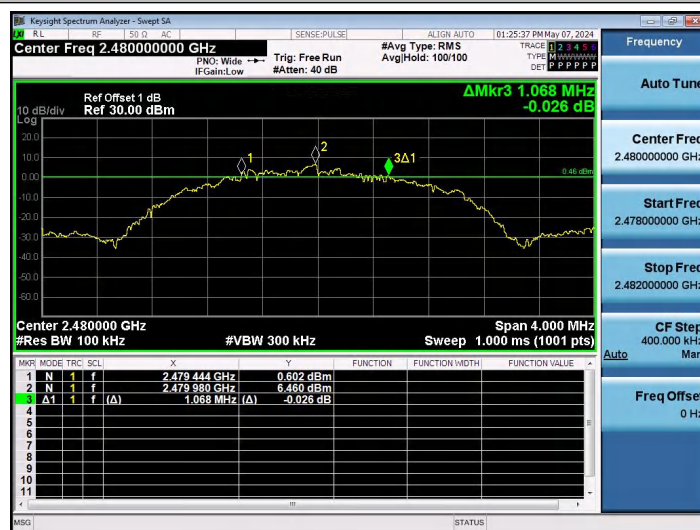
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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0274	2401.4819	2402.5093	---	---
BLE_1M	Ant1	2440	1.0244	2439.4866	2440.5110	---	---
BLE_1M	Ant1	2480	1.0332	2479.4821	2480.5153	---	---
BLE_2M	Ant1	2402	2.0628	2400.9815	2403.0443	---	---
BLE_2M	Ant1	2440	2.0653	2438.9744	2441.0397	---	---
BLE_2M	Ant1	2480	2.0643	2478.9798	2481.0441	---	---

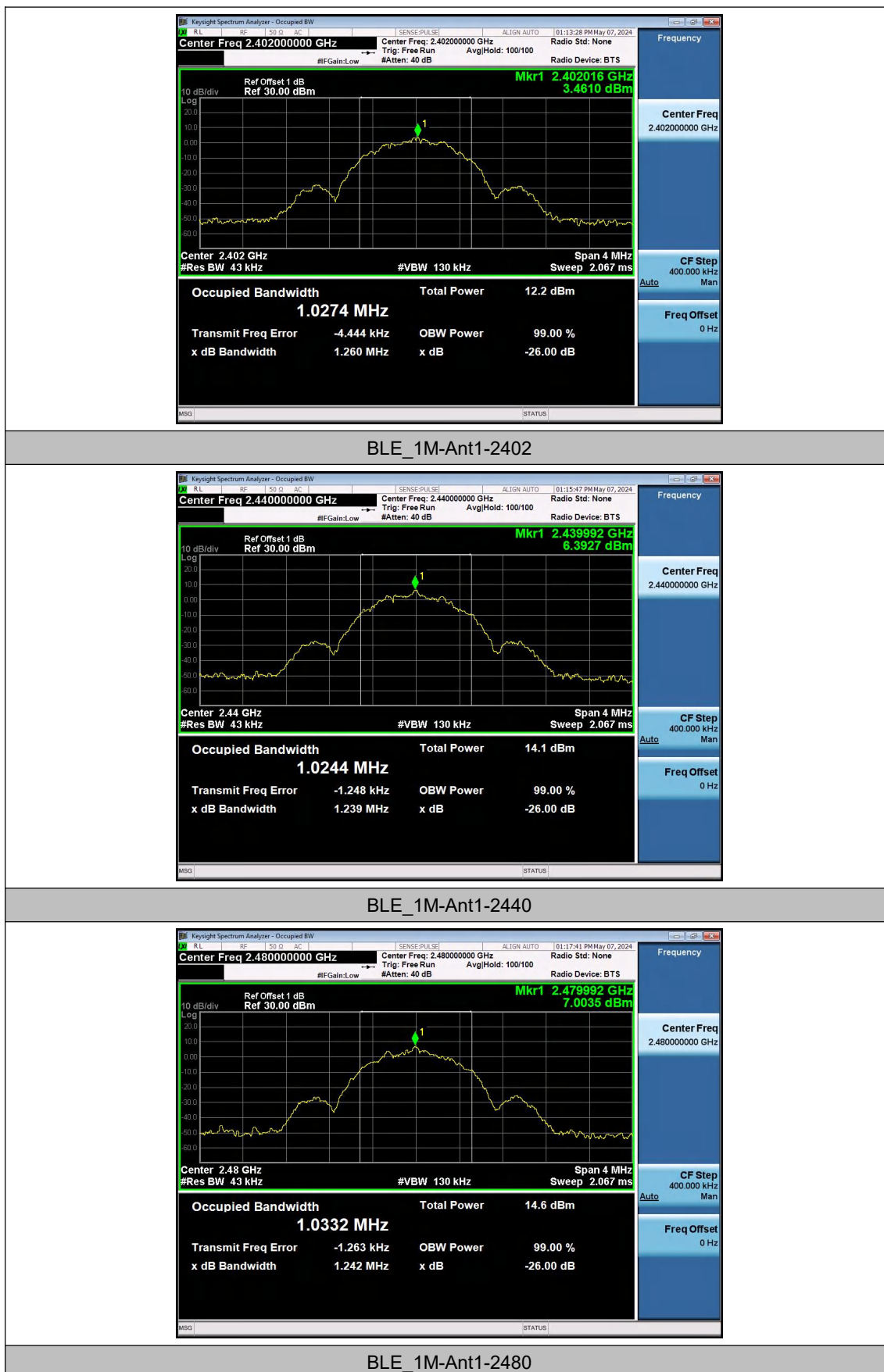
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Test Graphs



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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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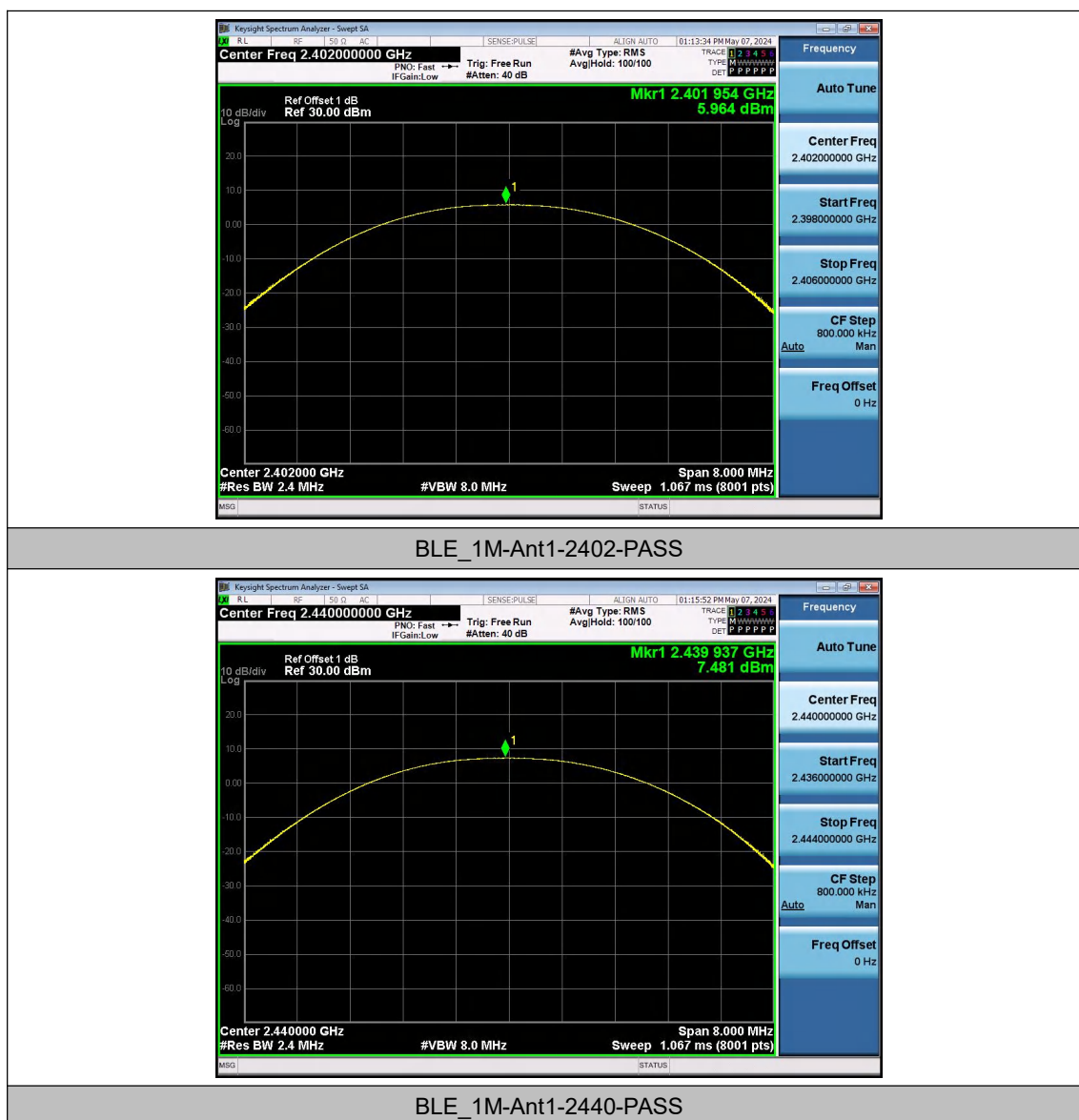
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Appendix C: Maximum conducted output power

Test Result Peak

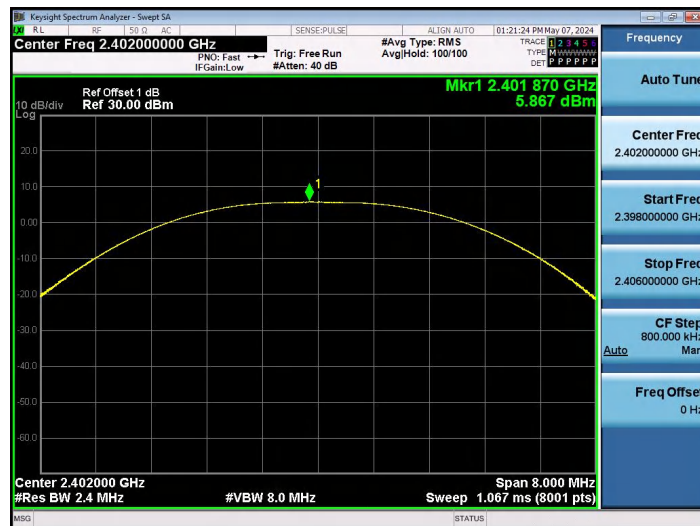
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.96	≤30	PASS
BLE_1M	Ant1	2440	7.48	≤30	PASS
BLE_1M	Ant1	2480	8.03	≤30	PASS
BLE_2M	Ant1	2402	5.87	≤30	PASS
BLE_2M	Ant1	2440	7.36	≤30	PASS
BLE_2M	Ant1	2480	8.72	≤30	PASS

Test Graphs Peak

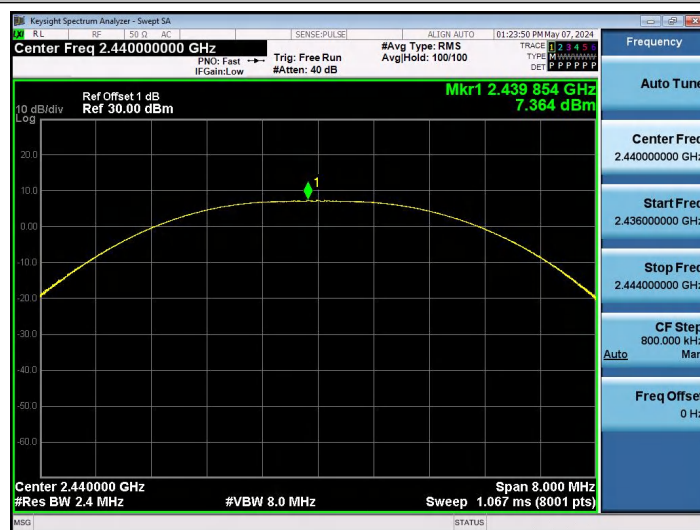




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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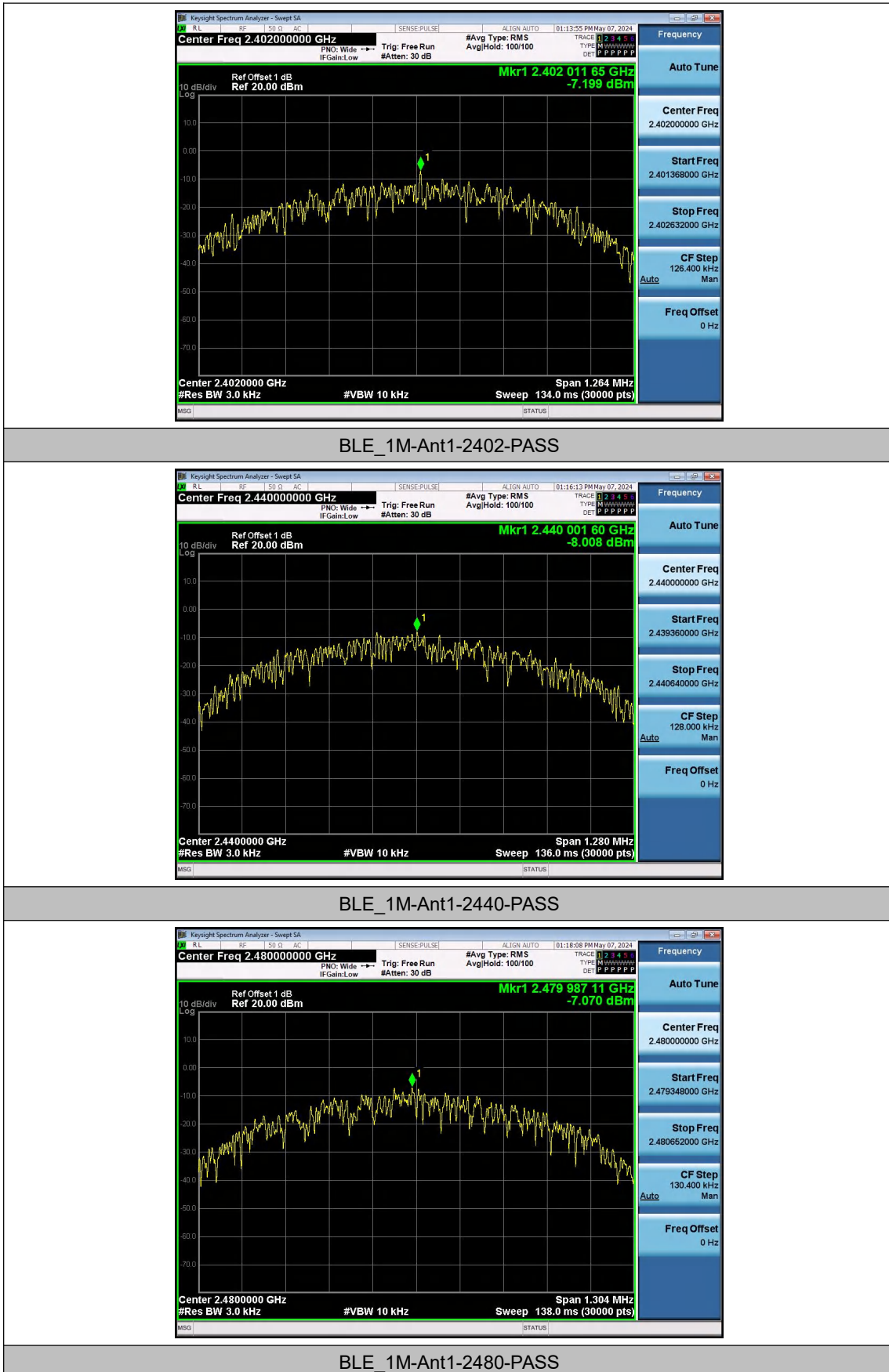
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.20	≤8.00	PASS
BLE_1M	Ant1	2440	-8.01	≤8.00	PASS
BLE_1M	Ant1	2480	-7.07	≤8.00	PASS
BLE_2M	Ant1	2402	-11.60	≤8.00	PASS
BLE_2M	Ant1	2440	-10.83	≤8.00	PASS
BLE_2M	Ant1	2480	-10.37	≤8.00	PASS

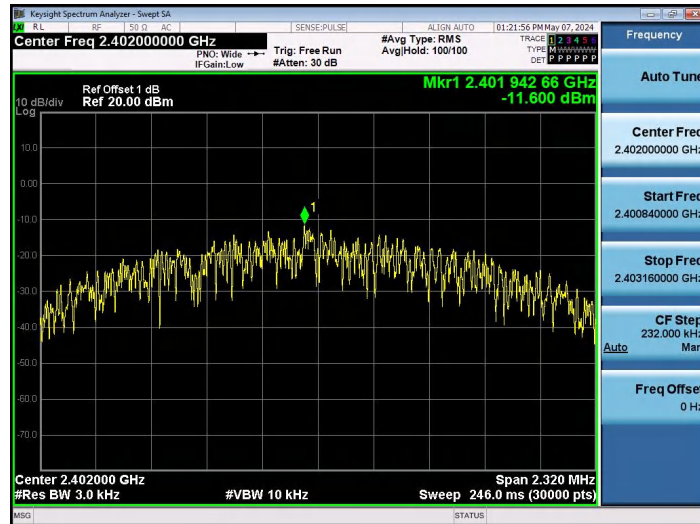
Test Graphs



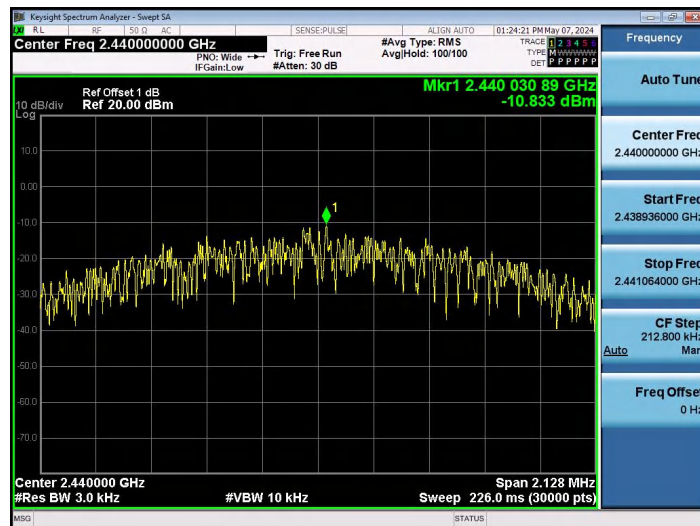
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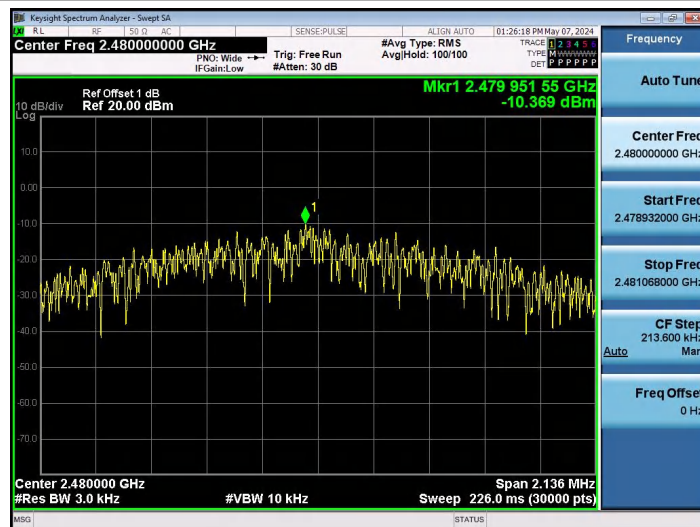
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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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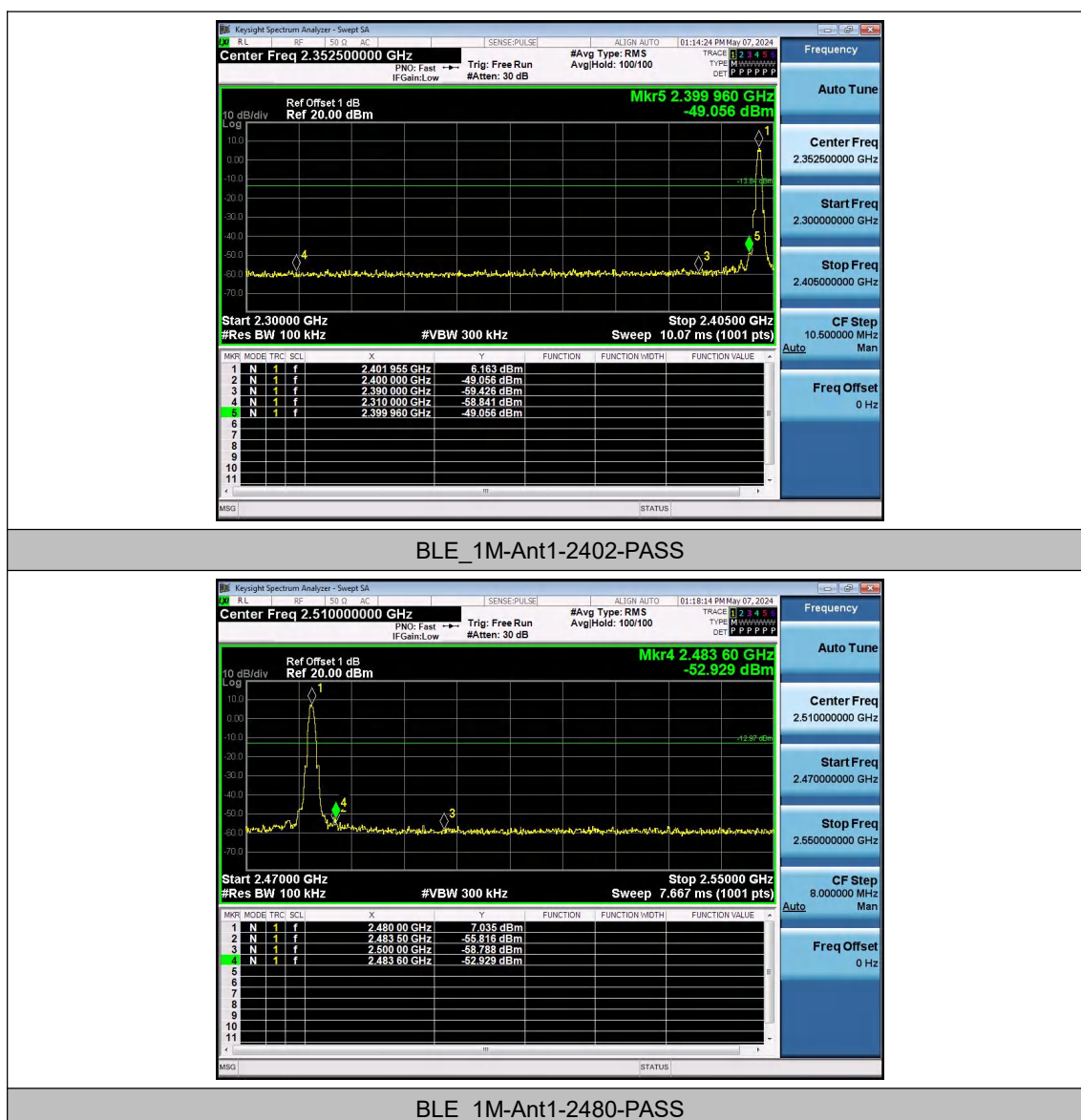
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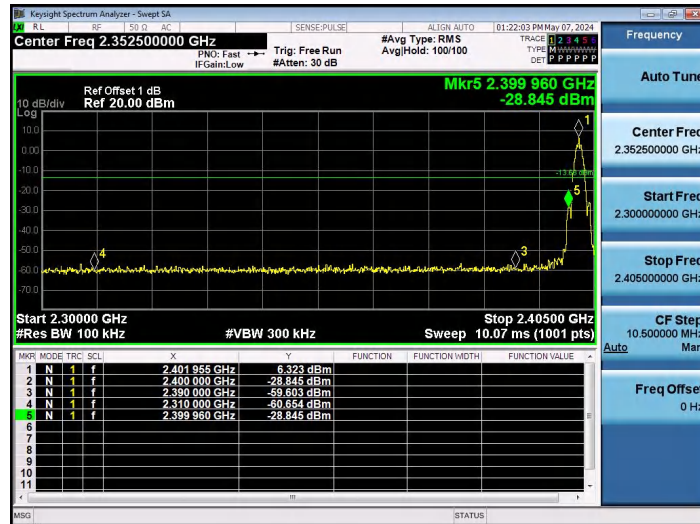
Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	6.16	-49.06	≤-13.84	PASS
BLE_1M	Ant1	High	2480	7.04	-52.93	≤-12.97	PASS
BLE_2M	Ant1	Low	2402	6.32	-28.85	≤-13.68	PASS
BLE_2M	Ant1	High	2480	7.65	-43.06	≤-12.35	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS



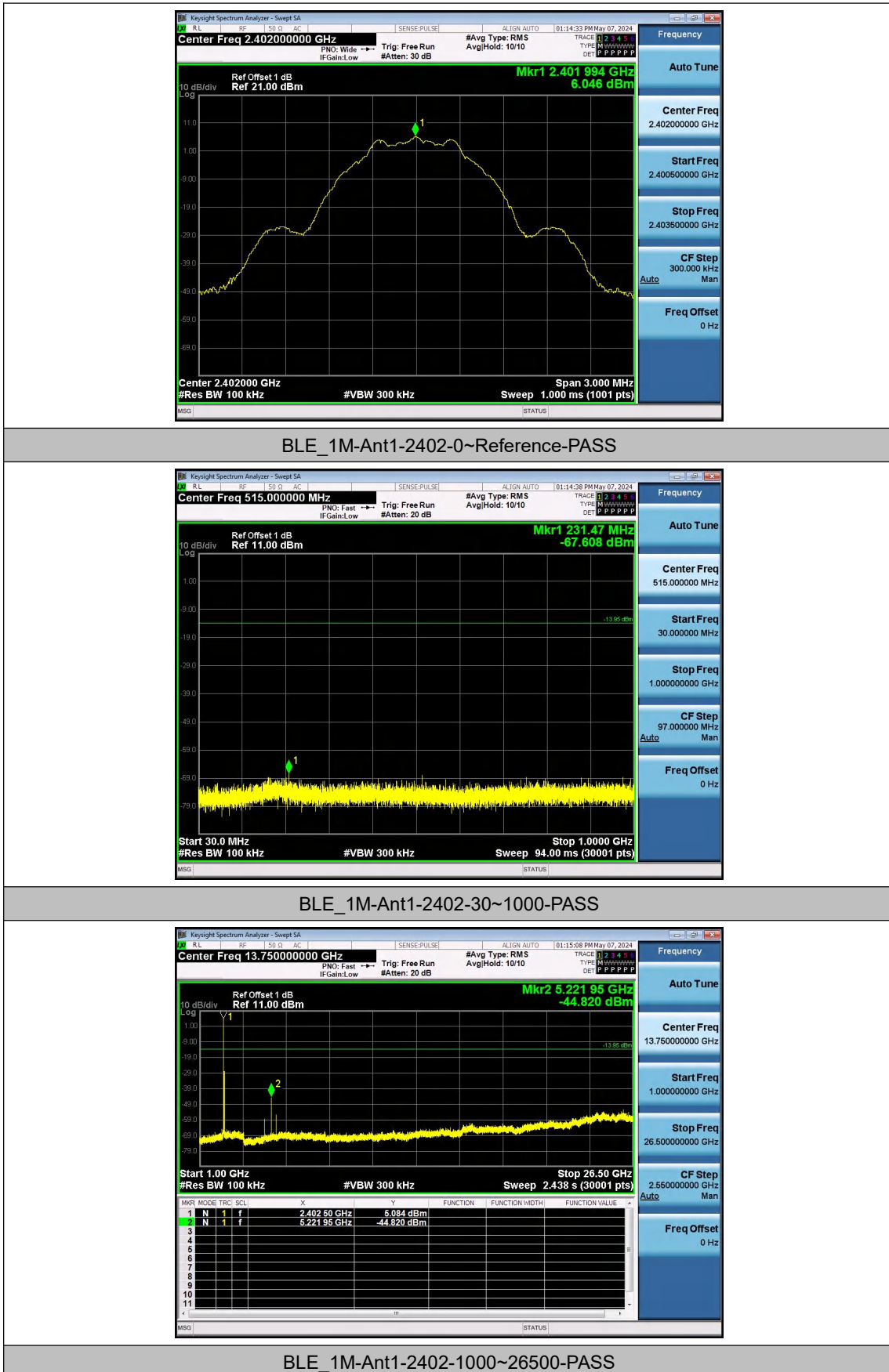
BLE_2M-Ant1-2480-PASS

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	6.05	6.05	---	PASS
BLE_1M	Ant1	2402	30~1000	6.05	-67.61	≤-13.95	PASS
BLE_1M	Ant1	2402	1000~26500	6.05	-44.82	≤-13.95	PASS
BLE_1M	Ant1	2440	0~Reference	7.13	7.13	---	PASS
BLE_1M	Ant1	2440	30~1000	7.13	-66.61	≤-12.87	PASS
BLE_1M	Ant1	2440	1000~26500	7.13	-53.9	≤-12.87	PASS
BLE_1M	Ant1	2480	0~Reference	7.77	7.77	---	PASS
BLE_1M	Ant1	2480	30~1000	7.77	-68.16	≤-12.23	PASS
BLE_1M	Ant1	2480	1000~26500	7.77	-53.13	≤-12.23	PASS
BLE_2M	Ant1	2402	0~Reference	6.27	6.27	---	PASS
BLE_2M	Ant1	2402	30~1000	6.27	-67.62	≤-13.73	PASS
BLE_2M	Ant1	2402	1000~26500	6.27	-53.37	≤-13.73	PASS
BLE_2M	Ant1	2440	0~Reference	6.82	6.82	---	PASS
BLE_2M	Ant1	2440	30~1000	6.82	-68.23	≤-13.18	PASS
BLE_2M	Ant1	2440	1000~26500	6.82	-45.39	≤-13.18	PASS
BLE_2M	Ant1	2480	0~Reference	7.55	7.55	---	PASS
BLE_2M	Ant1	2480	30~1000	7.55	-68.03	≤-12.45	PASS
BLE_2M	Ant1	2480	1000~26500	7.55	-47.29	≤-12.45	PASS

Test Graphs



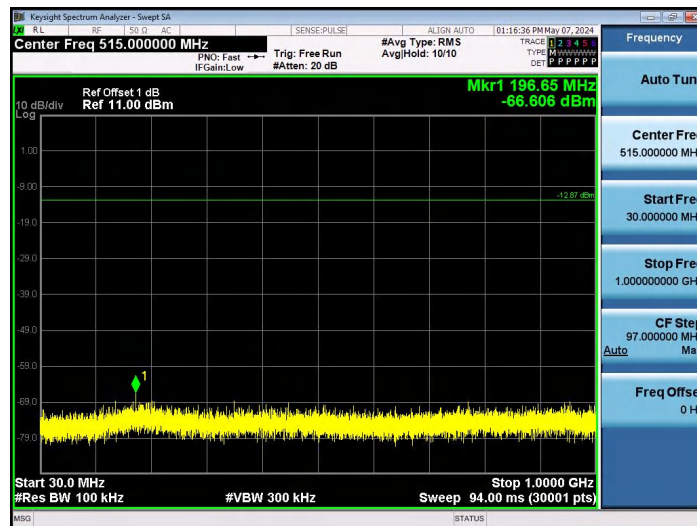
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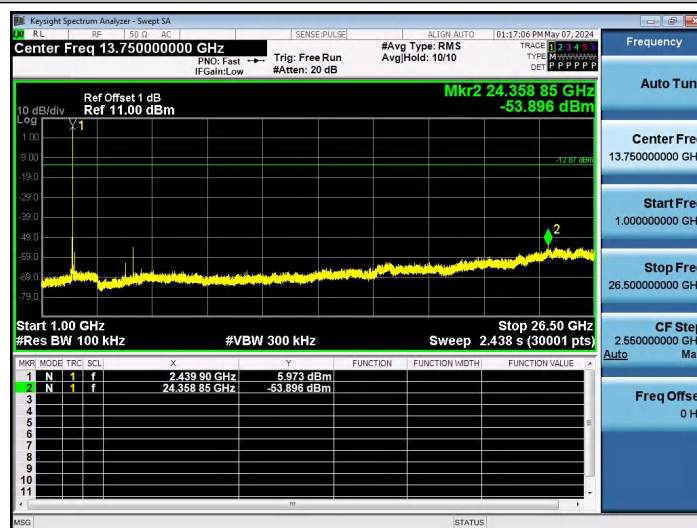
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BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

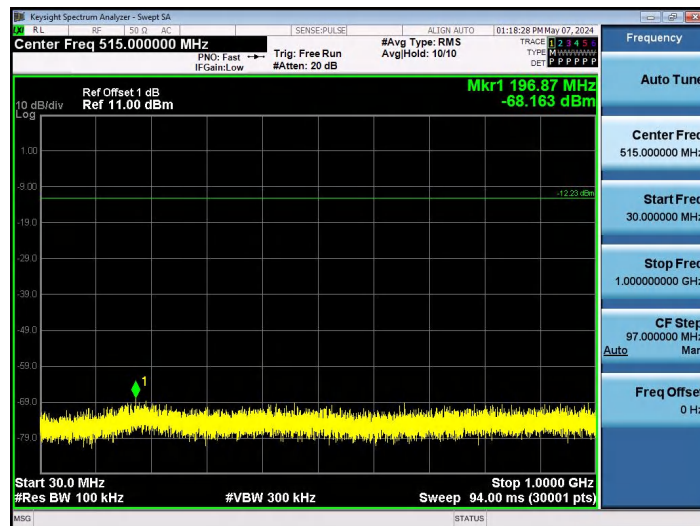
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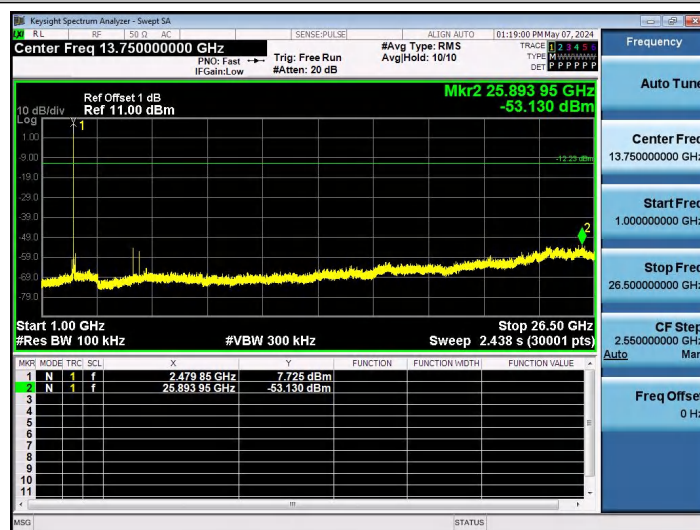
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BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

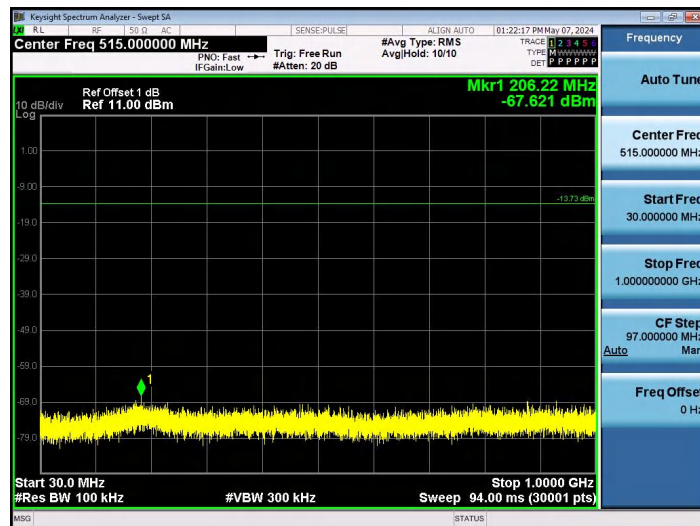
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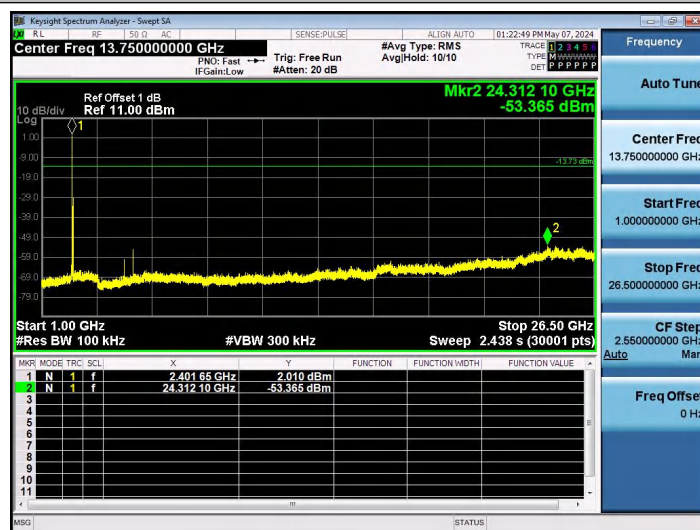
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BLE_2M-Ant1-2402-0~Reference-PASS



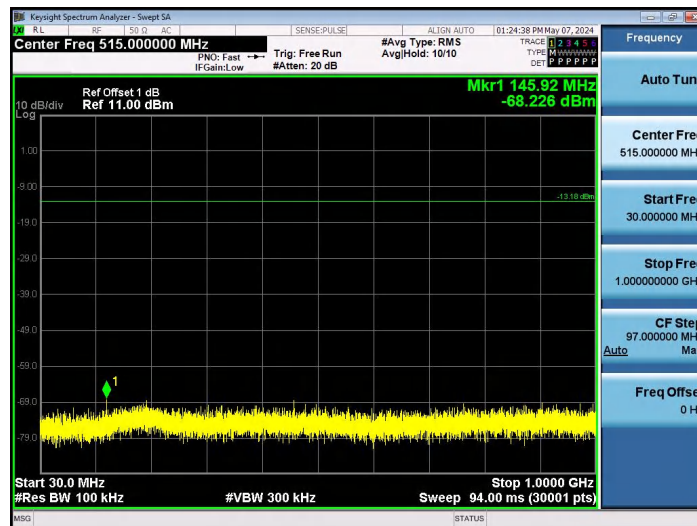
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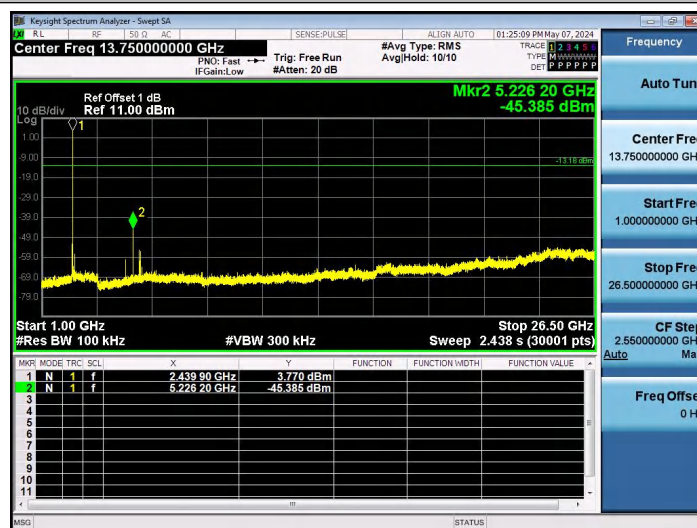
BLE_2M-Ant1-2402-1000~26500-PASS



BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

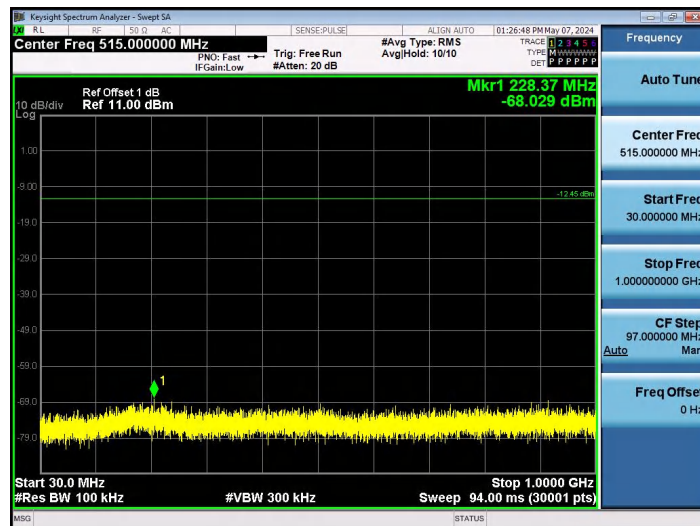
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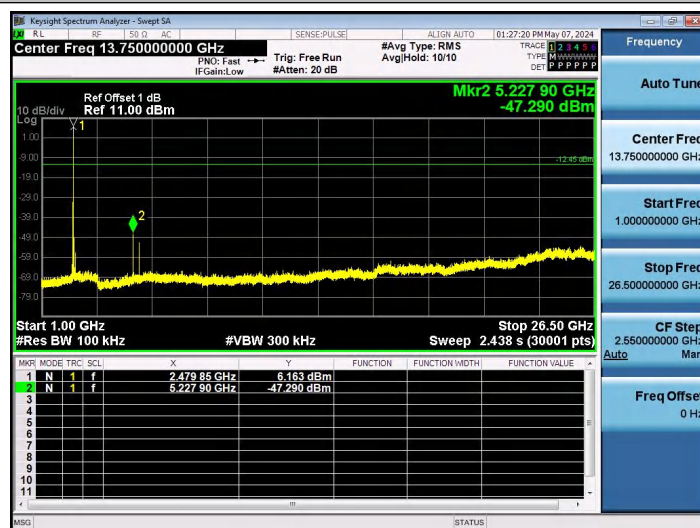
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BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



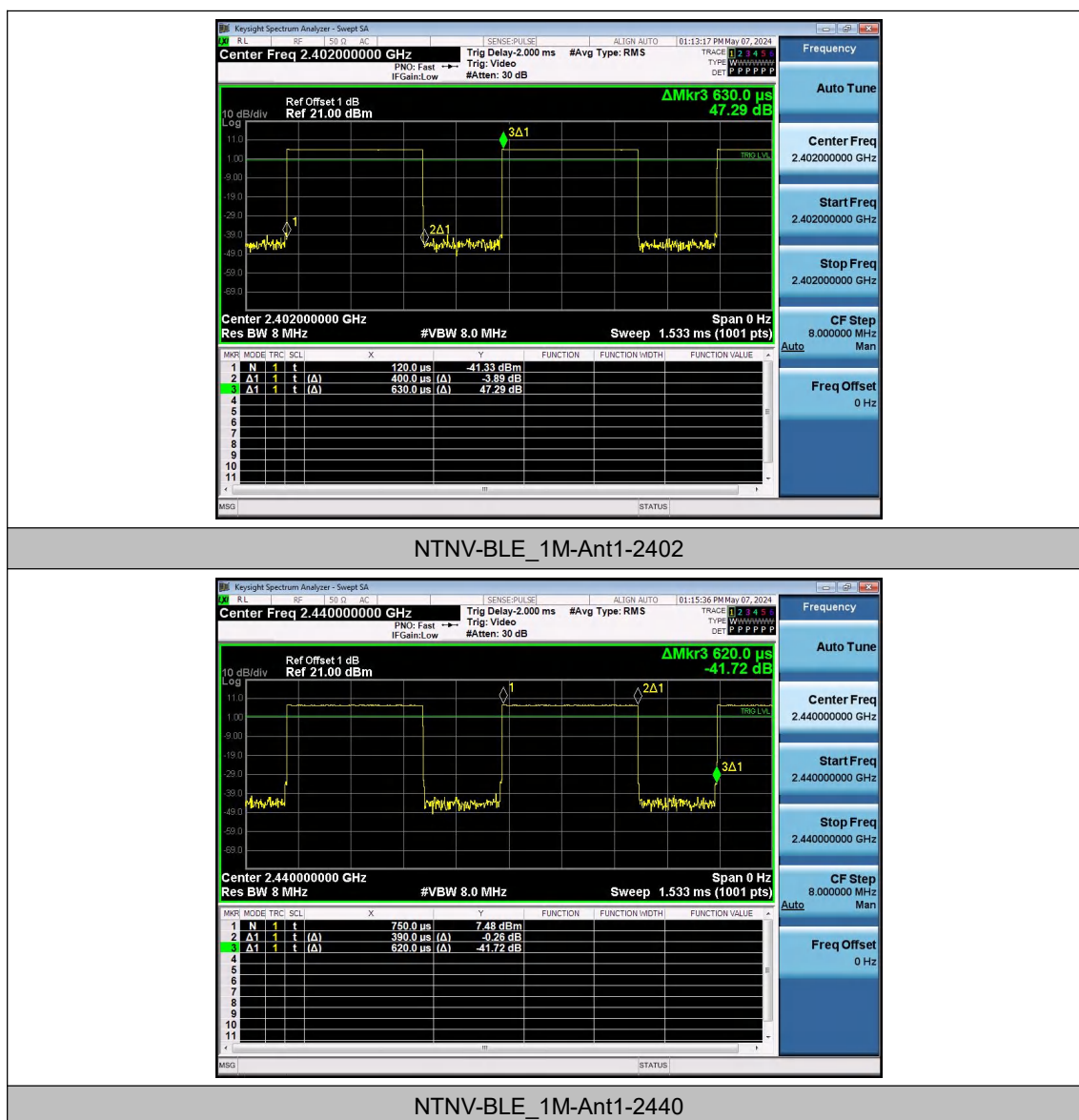
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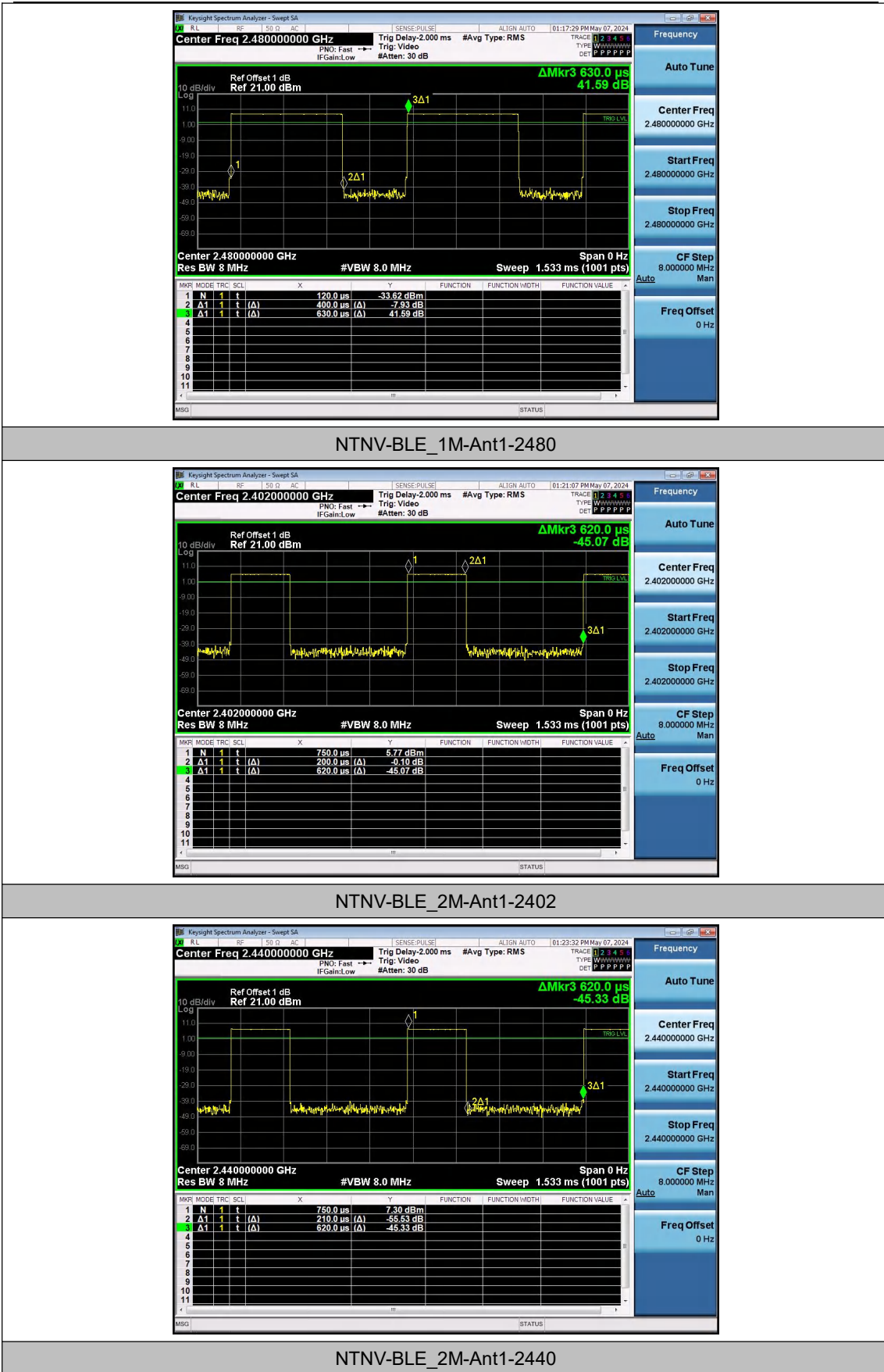
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91
BLE_2M	Ant1	2440	0.21	0.62	33.87	4.70
BLE_2M	Ant1	2480	0.20	0.62	32.26	4.91

Test Graphs

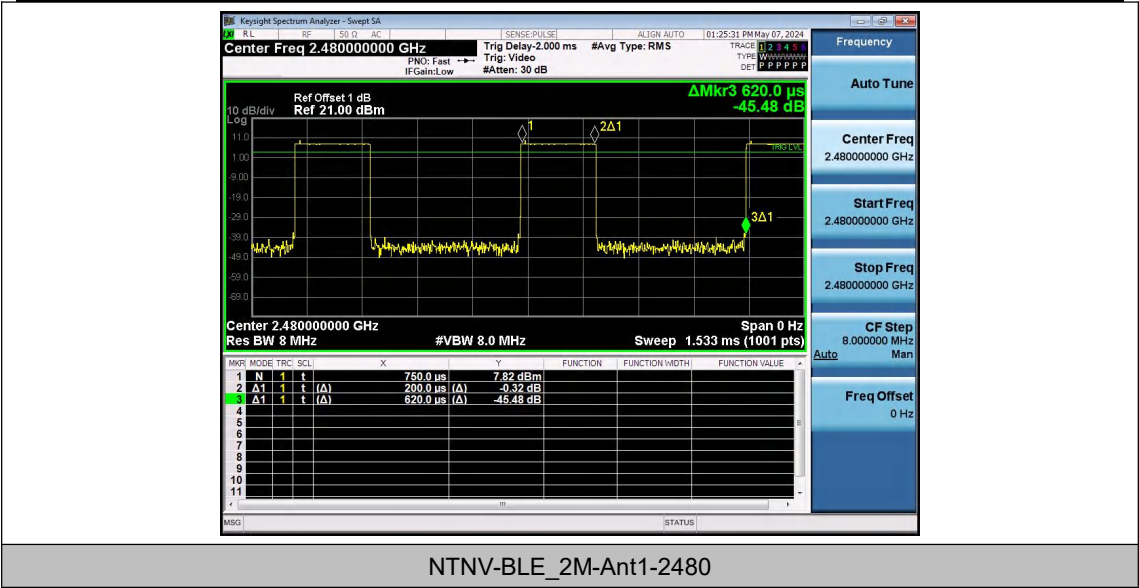




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NTNV-BLE_2M-Ant1-2480

---End---