

Appendix Test Data

Report No.:	1812C40135012501	Test Sample No.:	1-2-2
Start Test Date:	2024.11.19	Finish Test Date:	2024.11.19
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.6°C	Relative Humidity:	49%
Pressure:	101kPa		

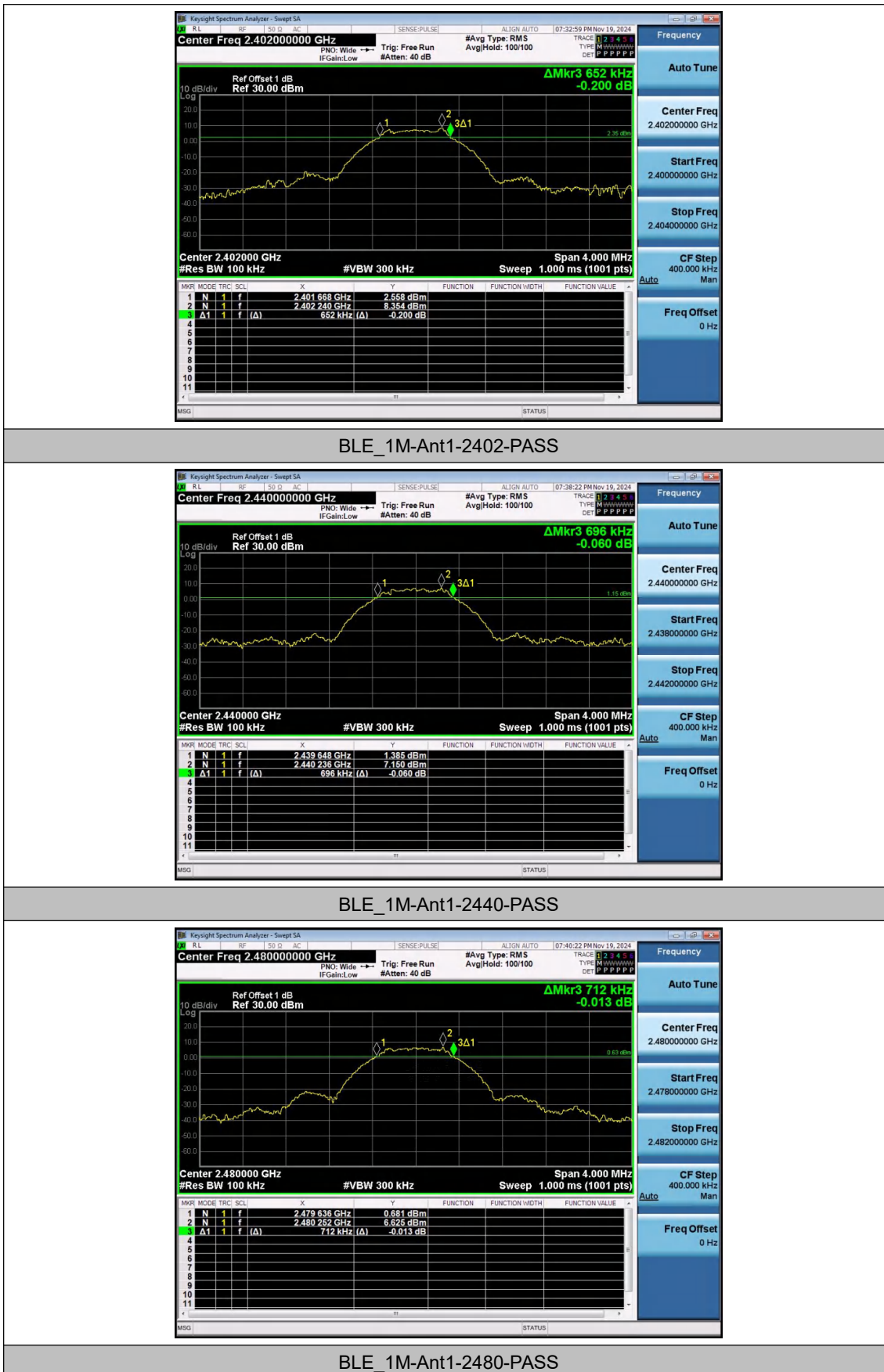
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.668	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.648	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.636	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.208	2401.348	2402.556	0.5	PASS
BLE_2M	Ant1	2440	1.236	2439.348	2440.584	0.5	PASS
BLE_2M	Ant1	2480	1.224	2479.364	2480.588	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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0247	2401.4821	2402.5068	---	---
BLE_1M	Ant1	2440	1.0308	2439.4812	2440.5120	---	---
BLE_1M	Ant1	2480	1.0371	2479.4772	2480.5143	---	---
BLE_2M	Ant1	2402	2.0633	2400.9817	2403.0450	---	---
BLE_2M	Ant1	2440	2.1238	2438.9454	2441.0692	---	---
BLE_2M	Ant1	2480	2.1074	2478.9505	2481.0579	---	---

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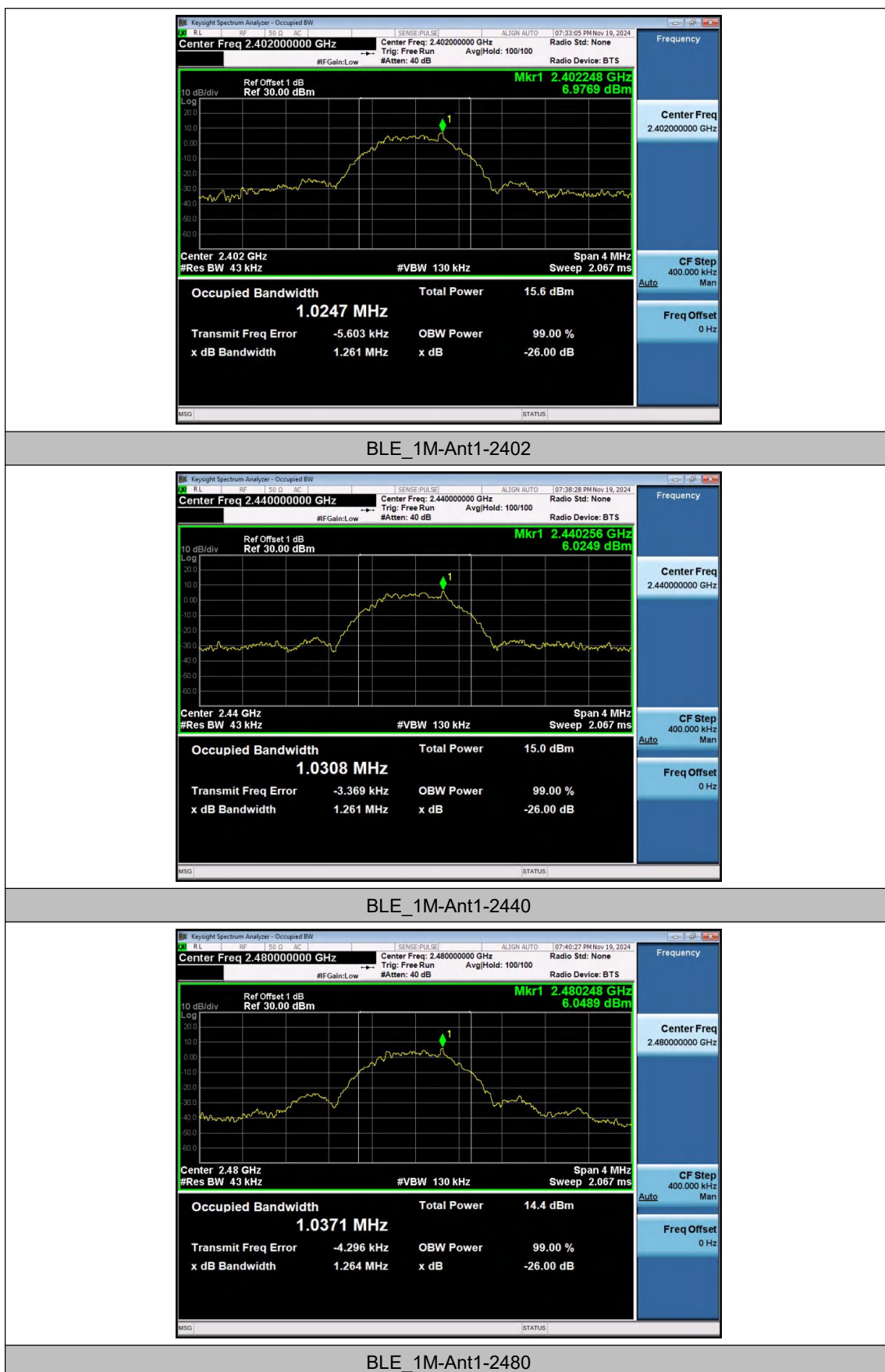
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Test Graphs



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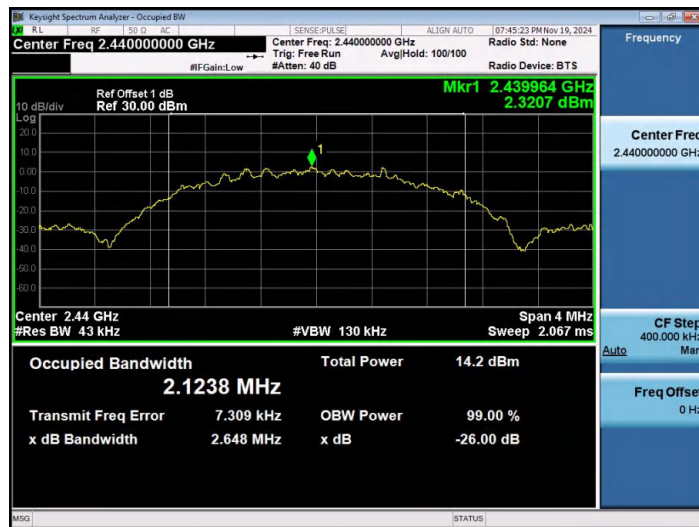
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



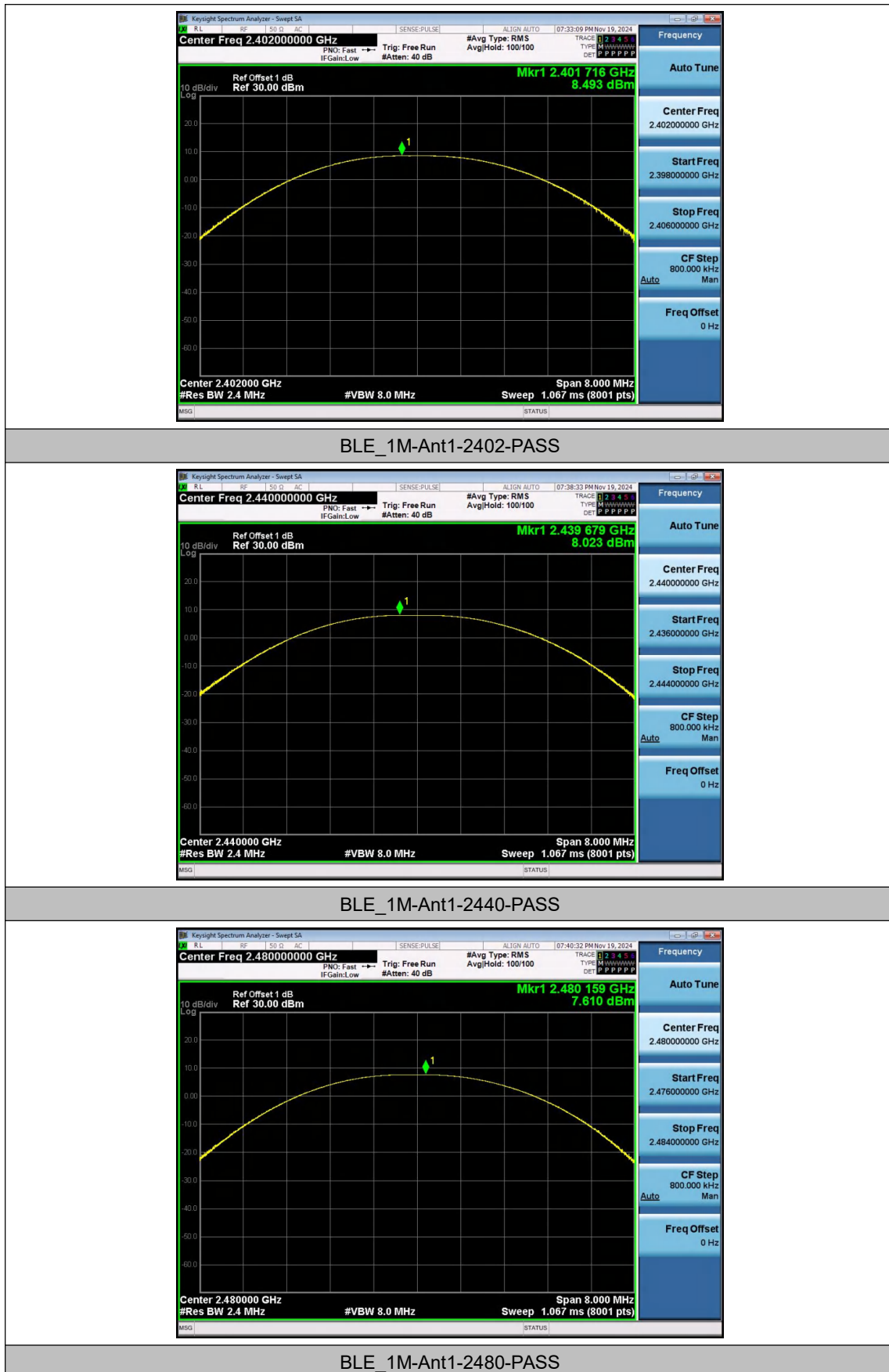
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.49	≤30	PASS
BLE_1M	Ant1	2440	8.02	≤30	PASS
BLE_1M	Ant1	2480	7.61	≤30	PASS
BLE_2M	Ant1	2402	8.54	≤30	PASS
BLE_2M	Ant1	2440	8.08	≤30	PASS
BLE_2M	Ant1	2480	7.60	≤30	PASS



Test Graphs Peak



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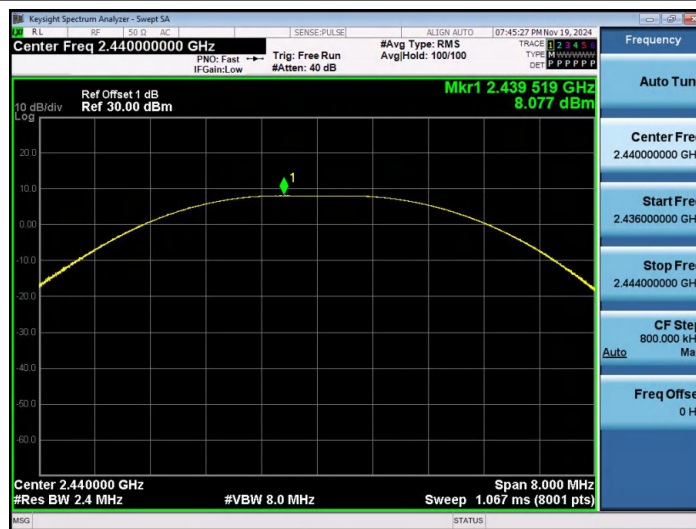


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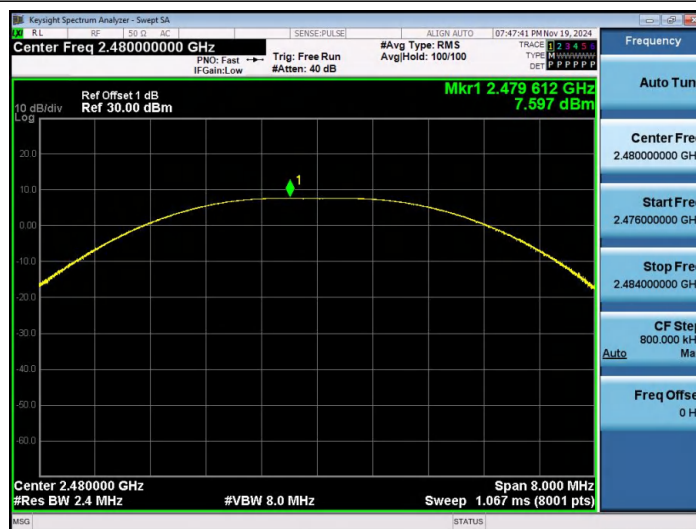




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



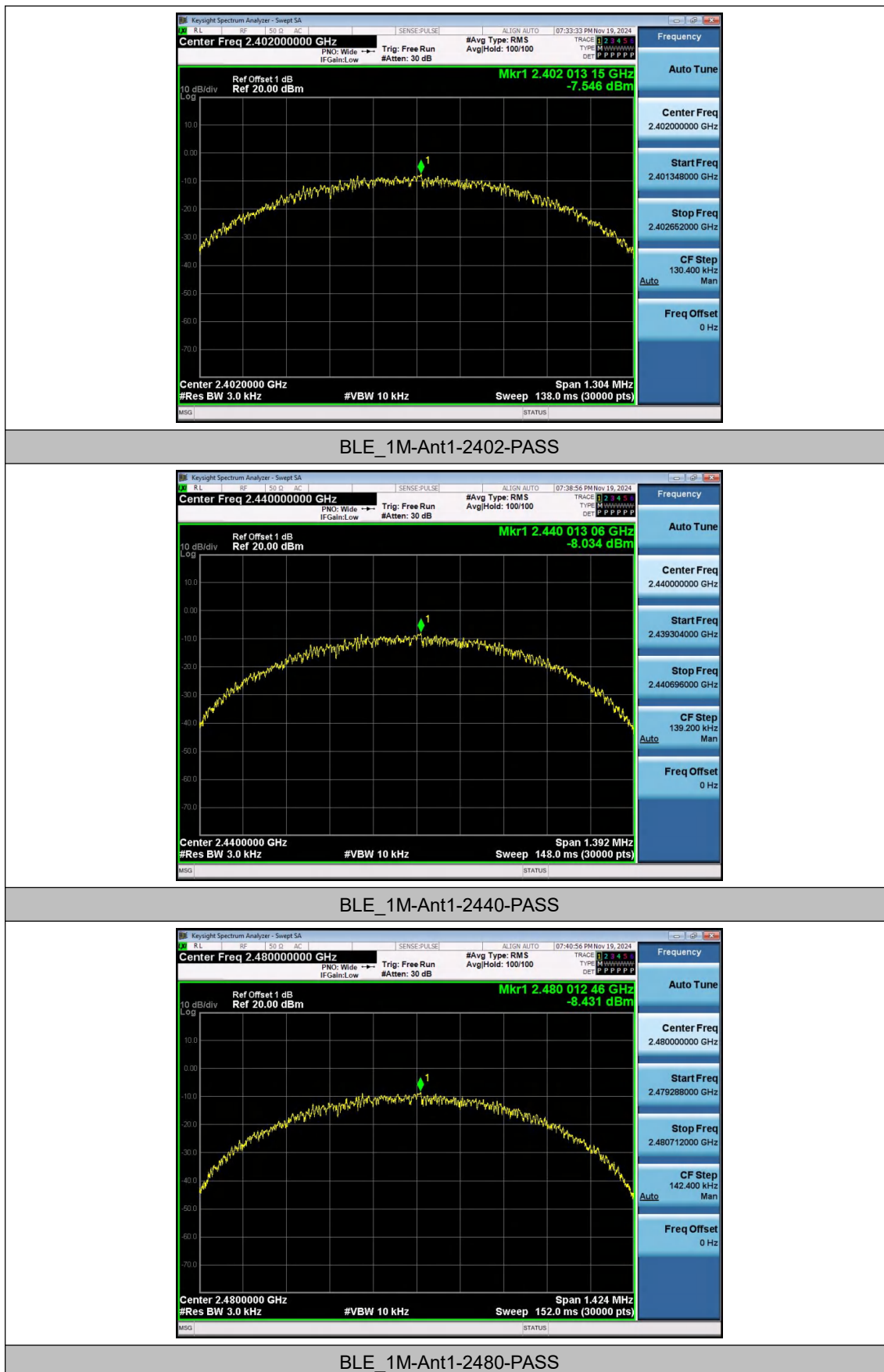
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.55	≤8.00	PASS
BLE_1M	Ant1	2440	-8.03	≤8.00	PASS
BLE_1M	Ant1	2480	-8.43	≤8.00	PASS
BLE_2M	Ant1	2402	-10.75	≤8.00	PASS
BLE_2M	Ant1	2440	-11.39	≤8.00	PASS
BLE_2M	Ant1	2480	-11.72	≤8.00	PASS



Test Graphs



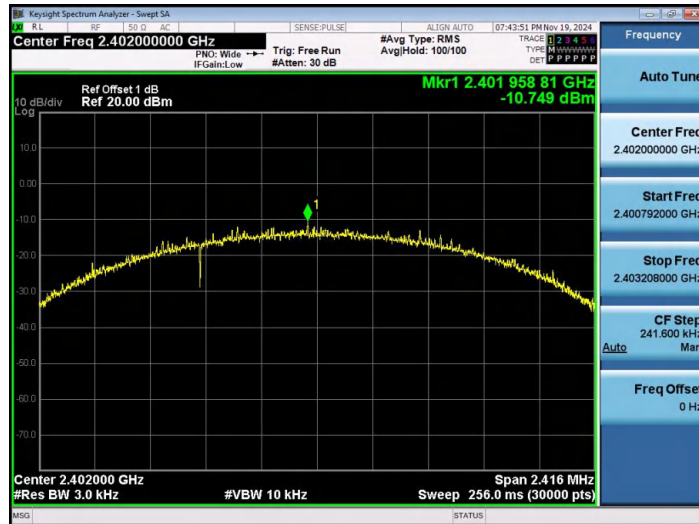
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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



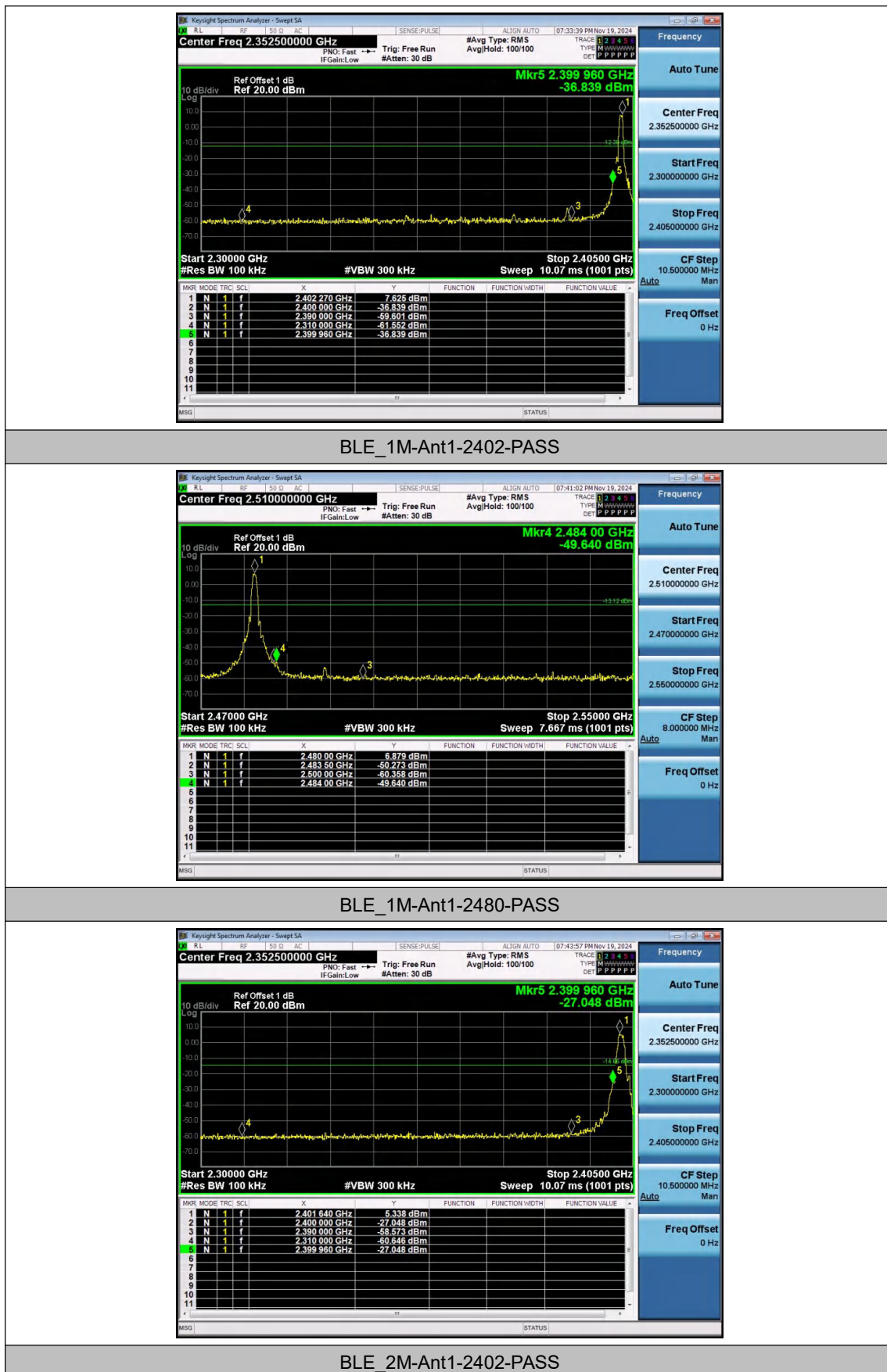
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.63	-36.84	≤-12.38	PASS
BLE_1M	Ant1	High	2480	6.88	-49.64	≤-13.12	PASS
BLE_2M	Ant1	Low	2402	5.34	-27.05	≤-14.66	PASS
BLE_2M	Ant1	High	2480	6.22	-44.75	≤-13.79	PASS



Test Graphs

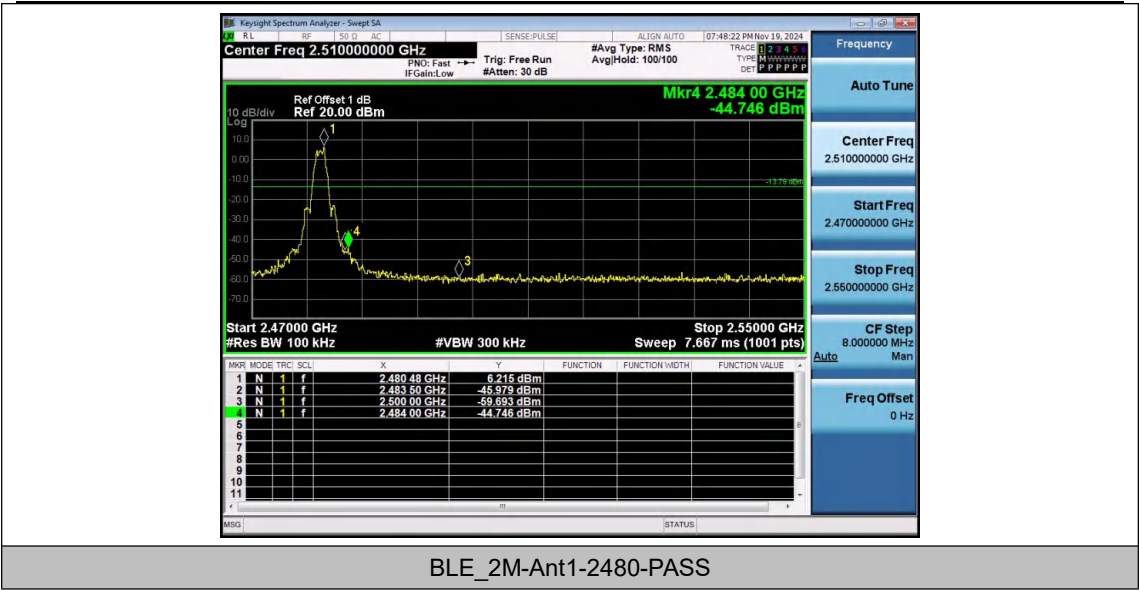


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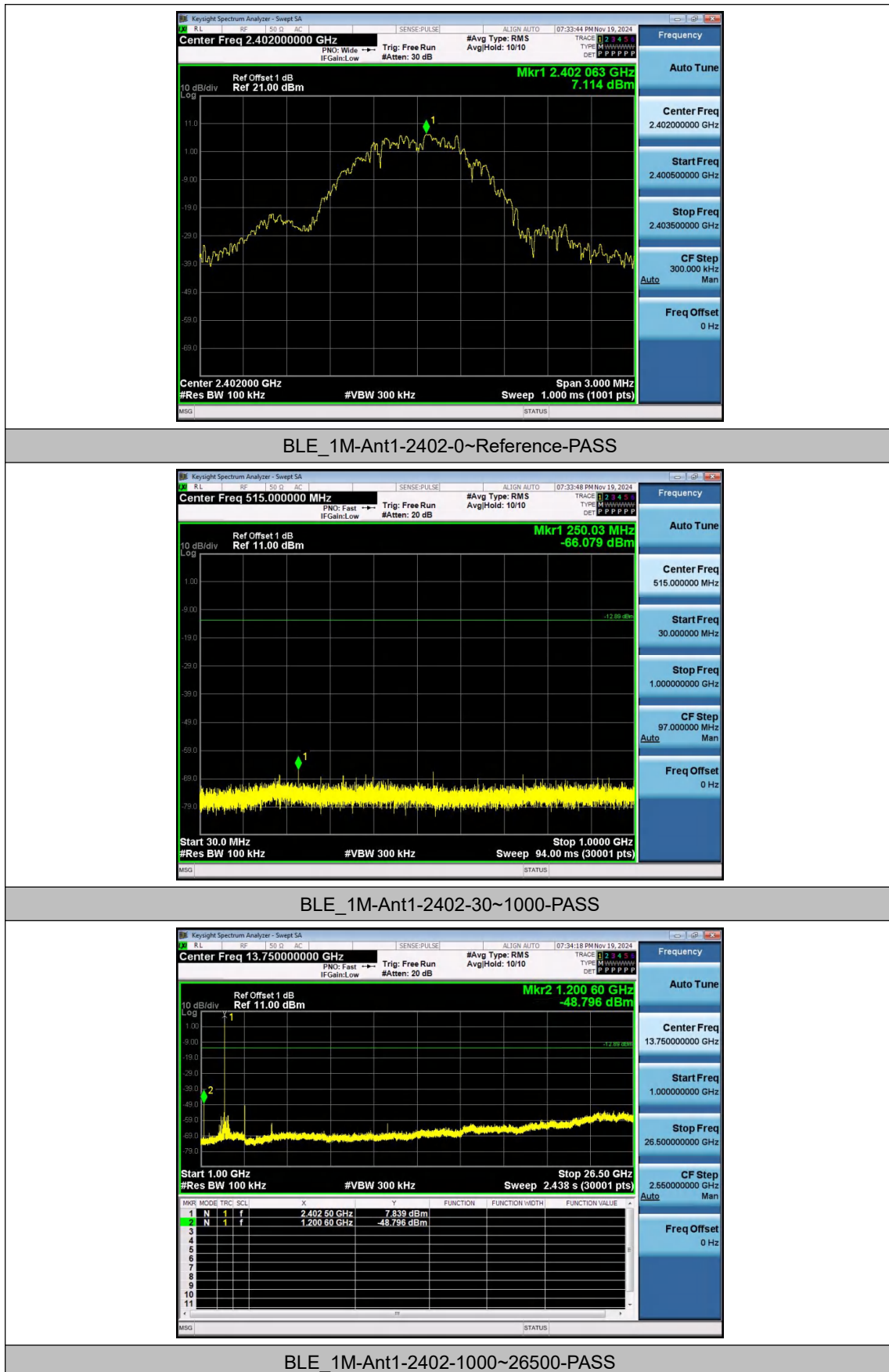
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	7.11	7.11	---	PASS
BLE_1M	Ant1	2402	30~1000	7.11	-66.08	≤-12.89	PASS
BLE_1M	Ant1	2402	1000~26500	7.11	-48.8	≤-12.89	PASS
BLE_1M	Ant1	2440	0~Reference	6.76	6.76	---	PASS
BLE_1M	Ant1	2440	30~1000	6.76	-65.81	≤-13.24	PASS
BLE_1M	Ant1	2440	1000~26500	6.76	-46.7	≤-13.24	PASS
BLE_1M	Ant1	2480	0~Reference	6.66	6.66	---	PASS
BLE_1M	Ant1	2480	30~1000	6.66	-65.29	≤-13.34	PASS
BLE_1M	Ant1	2480	1000~26500	6.66	-49.1	≤-13.34	PASS
BLE_2M	Ant1	2402	0~Reference	4.79	4.79	---	PASS
BLE_2M	Ant1	2402	30~1000	4.79	-64.6	≤-15.21	PASS
BLE_2M	Ant1	2402	1000~26500	4.79	-50.94	≤-15.21	PASS
BLE_2M	Ant1	2440	0~Reference	6.68	6.68	---	PASS
BLE_2M	Ant1	2440	30~1000	6.68	-65.27	≤-13.32	PASS
BLE_2M	Ant1	2440	1000~26500	6.68	-49.6	≤-13.32	PASS
BLE_2M	Ant1	2480	0~Reference	4.16	4.16	---	PASS
BLE_2M	Ant1	2480	30~1000	4.16	-64.37	≤-15.84	PASS
BLE_2M	Ant1	2480	1000~26500	4.16	-49.88	≤-15.84	PASS



Test Graphs

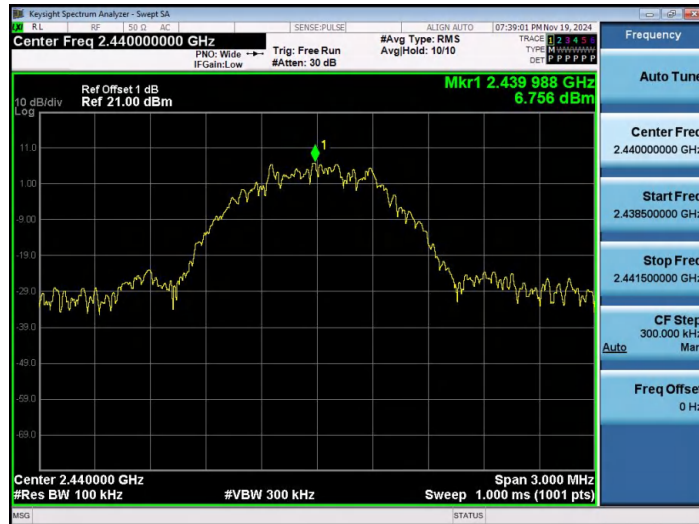


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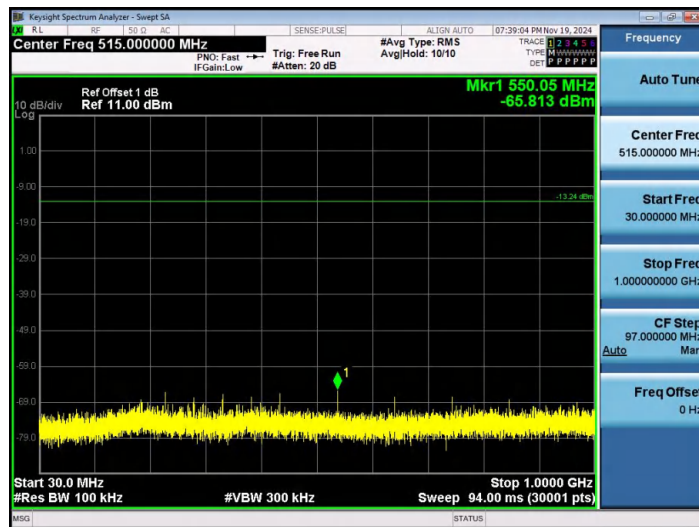
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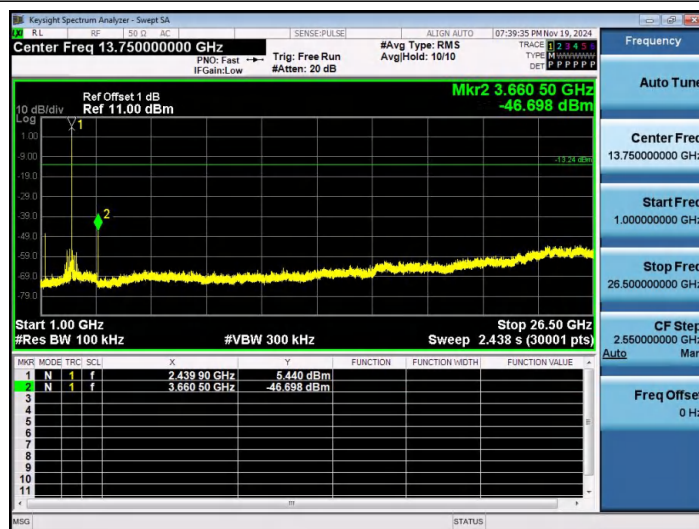




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

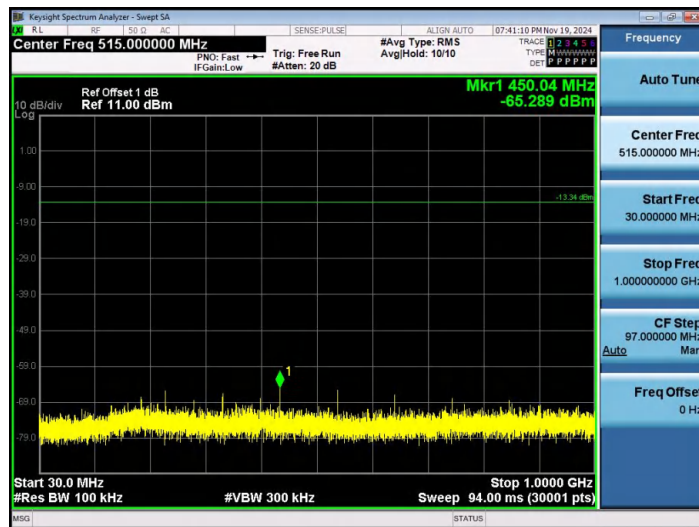


BLE_1M-Ant1-2440-1000~26500-PASS

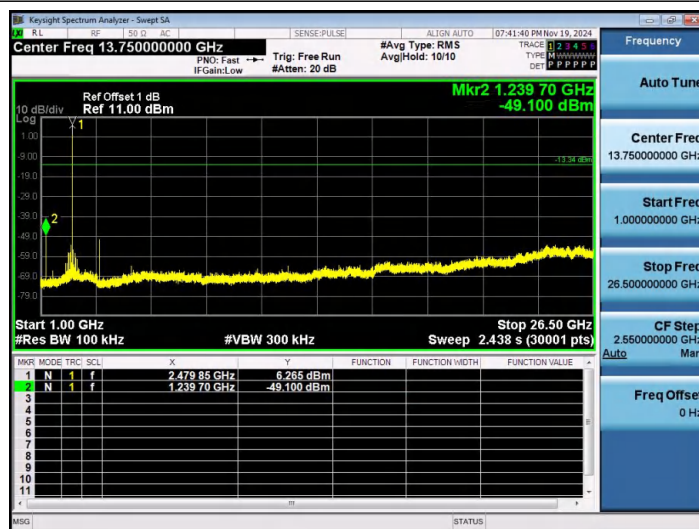




BLE_1M-Ant1-2480-0~Reference-PASS

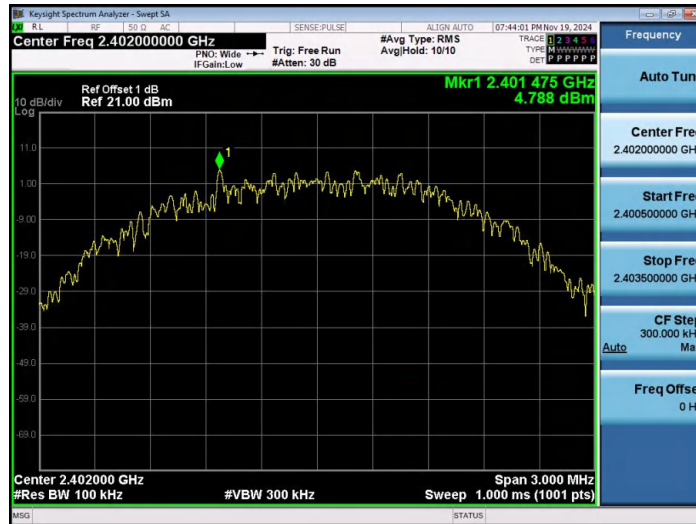


BLE_1M-Ant1-2480-30~1000-PASS

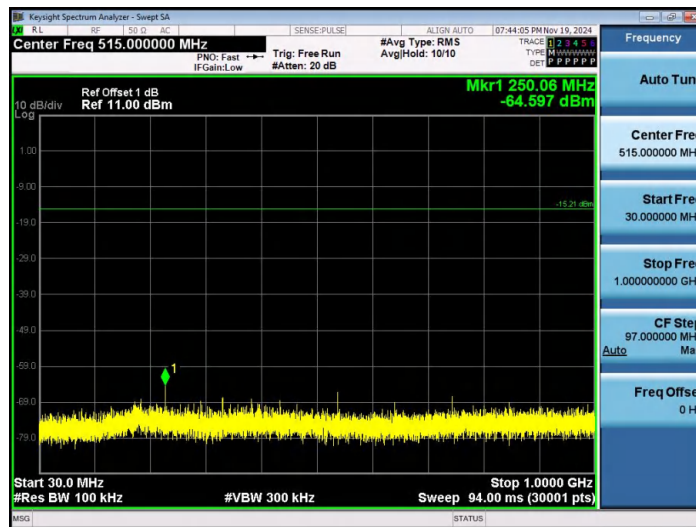


BLE_1M-Ant1-2480-1000~26500-PASS

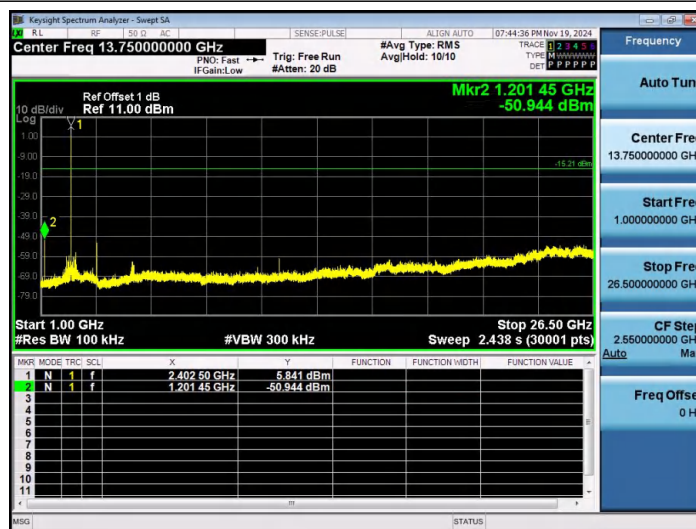




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BLE_2M-Ant1-2402-30~1000-PASS

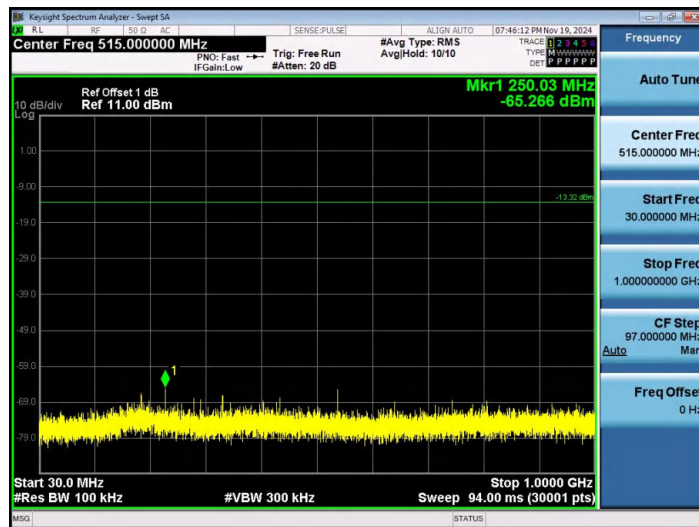


BLE_2M-Ant1-2402-1000~26500-PASS

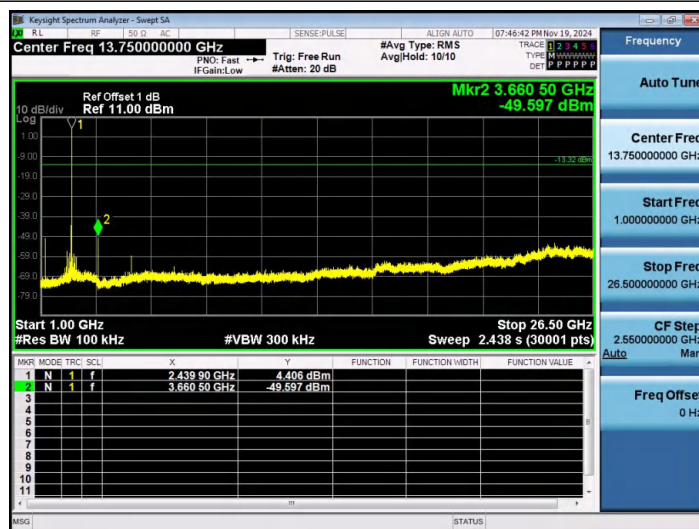




BLE_2M-Ant1-2440-0~Reference-PASS

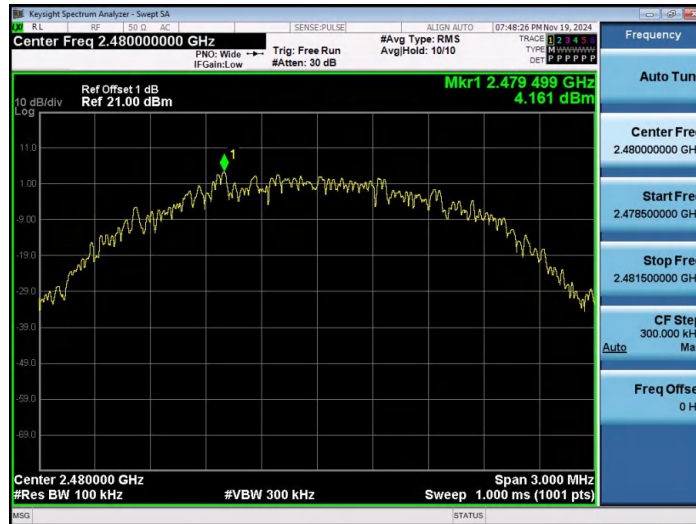


BLE_2M-Ant1-2440-30~1000-PASS

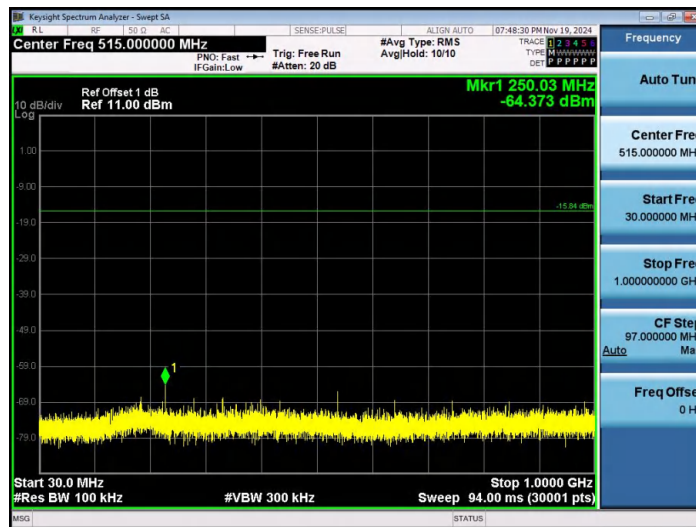


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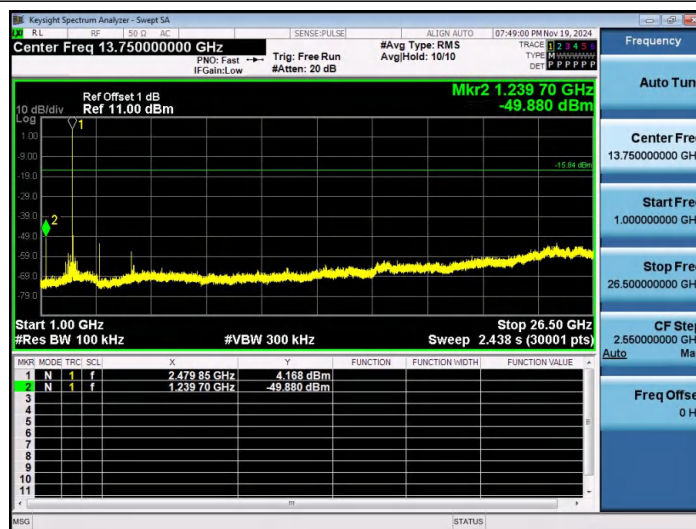




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



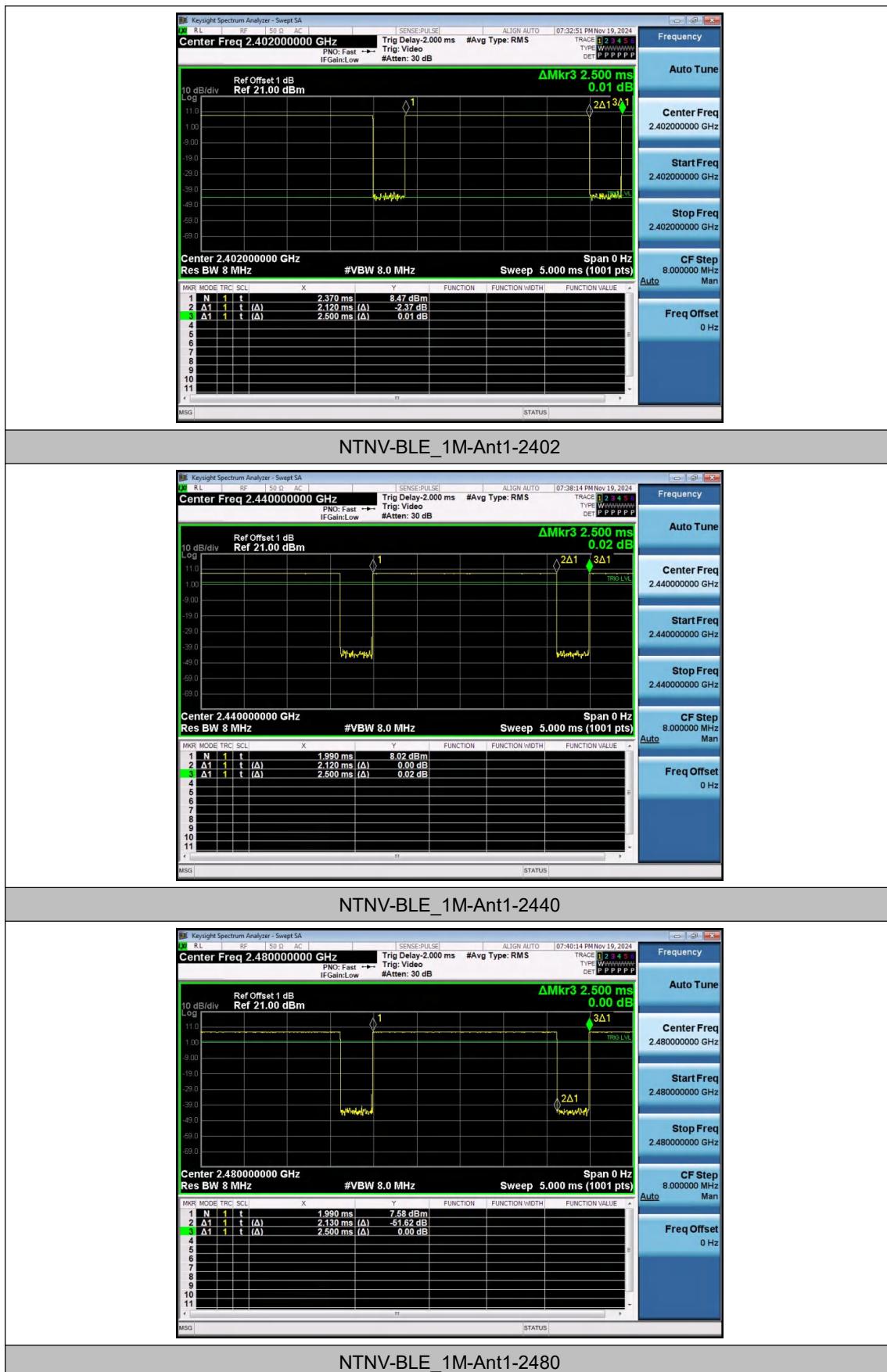
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
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

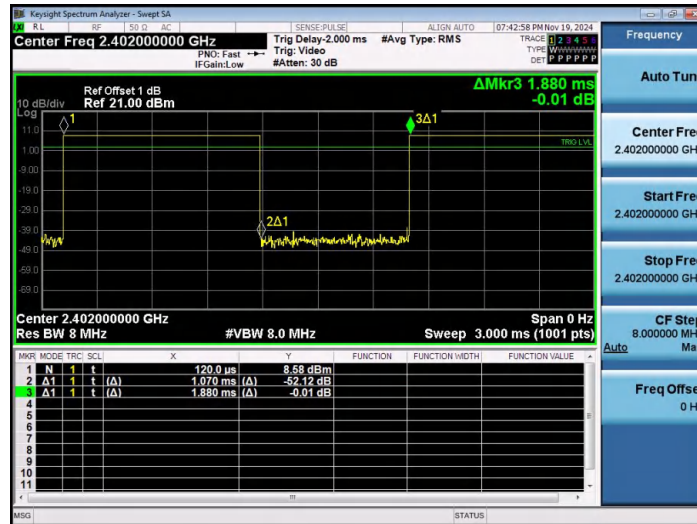


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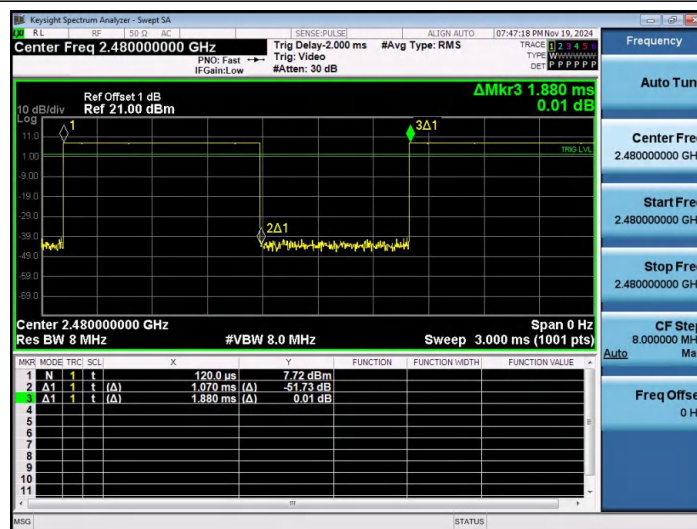




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

