

Appendix Test Data

Report No.:	1818C40074712501	Test Sample No.:	1-2-2
Start Test Date:	2024.09.23	Finish Test Date:	2024.09.23
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.2°C	Relative Humidity:	54%
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	0.756	2401.668	2402.424	0.5	PASS
BLE_1M	Ant1	2440	0.756	2439.676	2440.432	0.5	PASS
BLE_1M	Ant1	2480	0.752	2479.680	2480.432	0.5	PASS
BLE_2M	Ant1	2402	1.312	2401.408	2402.720	0.5	PASS
BLE_2M	Ant1	2440	1.316	2439.420	2440.736	0.5	PASS
BLE_2M	Ant1	2480	1.252	2479.472	2480.724	0.5	PASS



Test Graphs

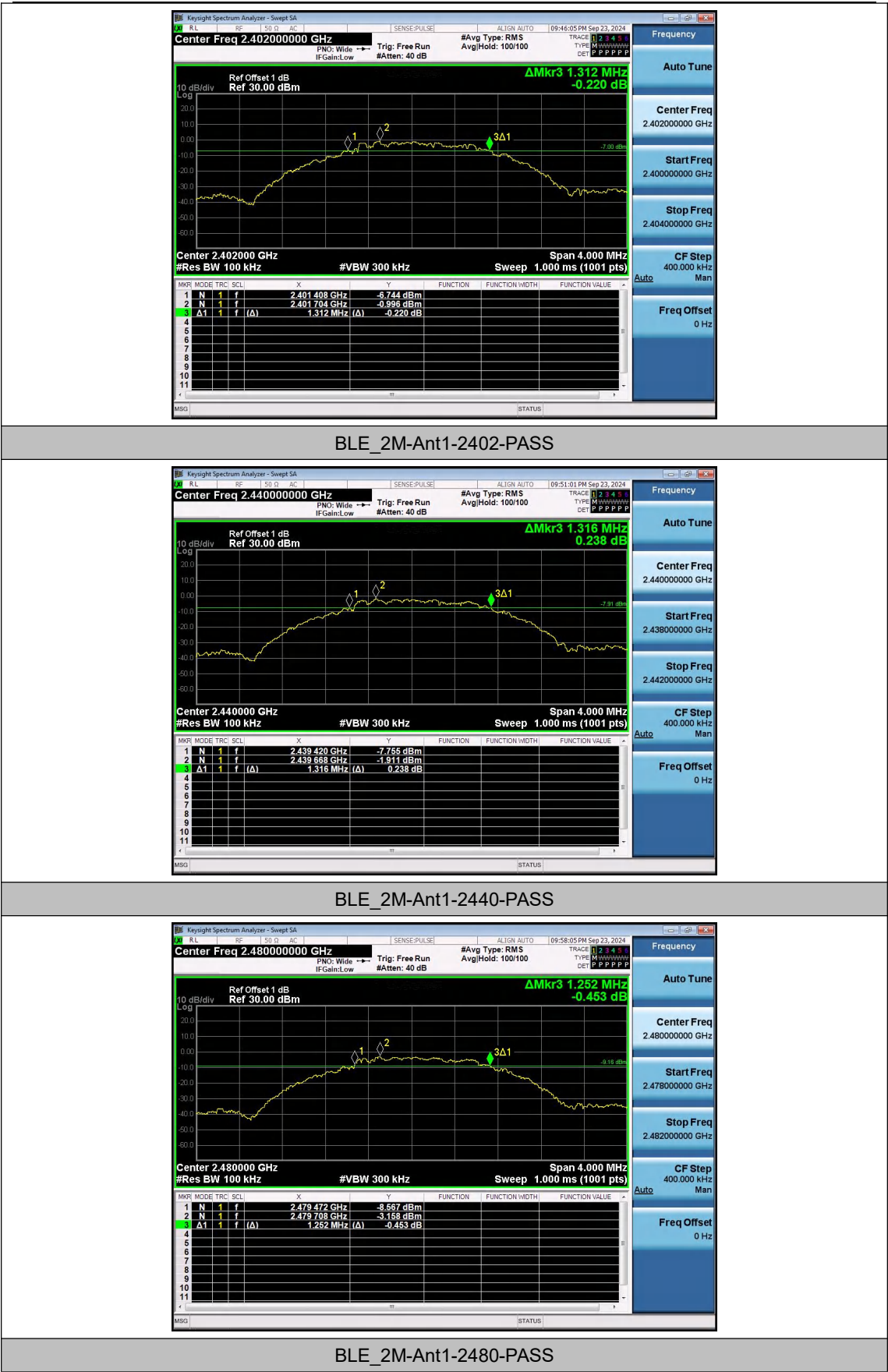


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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0844	2401.5054	2402.5898	---	---
BLE_1M	Ant1	2440	1.0889	2439.5072	2440.5961	---	---
BLE_1M	Ant1	2480	1.0758	2479.5111	2480.5869	---	---
BLE_2M	Ant1	2402	2.0577	2401.0238	2403.0815	---	---
BLE_2M	Ant1	2440	2.0685	2439.0179	2441.0864	---	---
BLE_2M	Ant1	2480	2.0582	2479.0268	2481.0850	---	---

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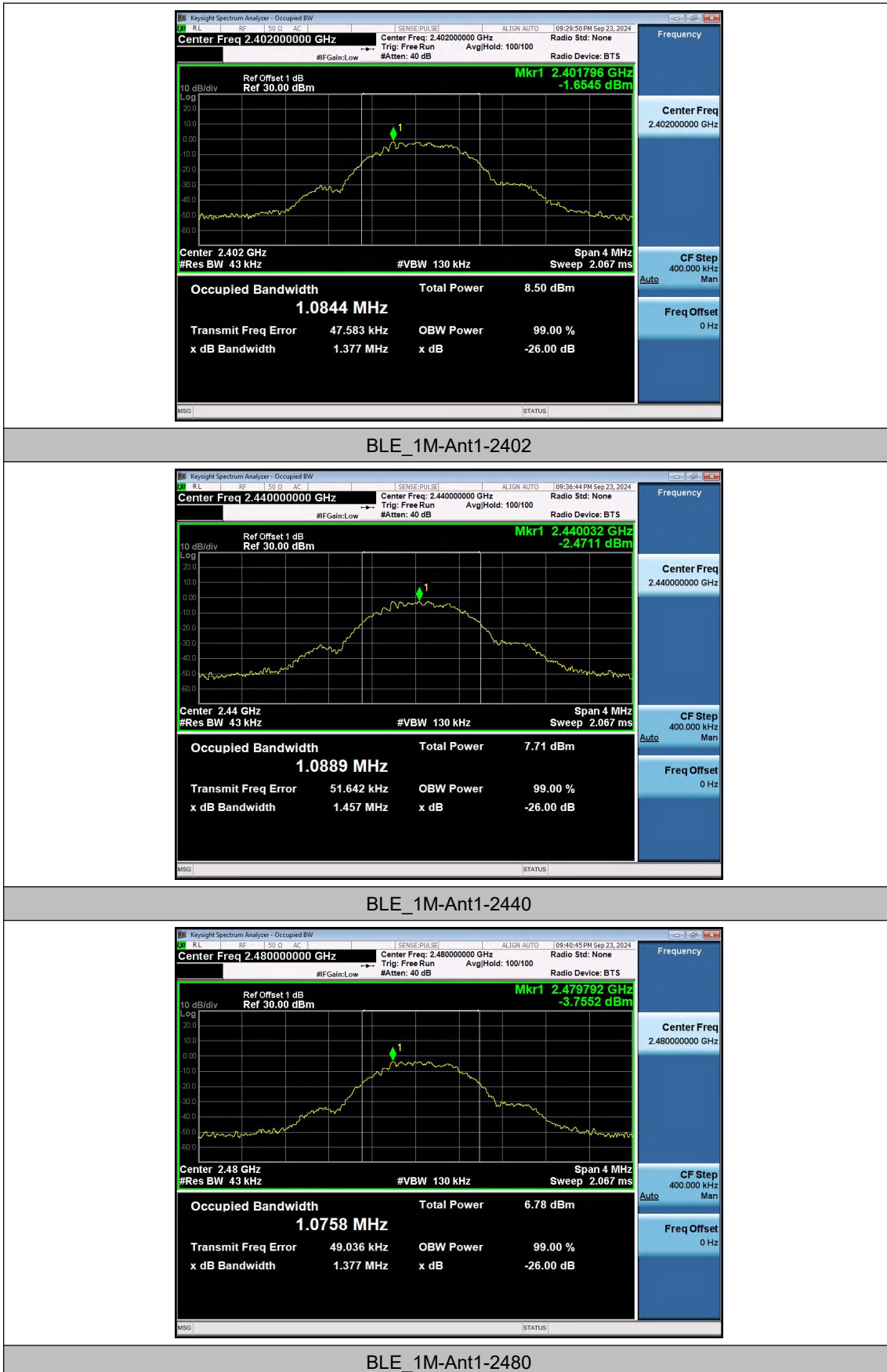
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Test Graphs

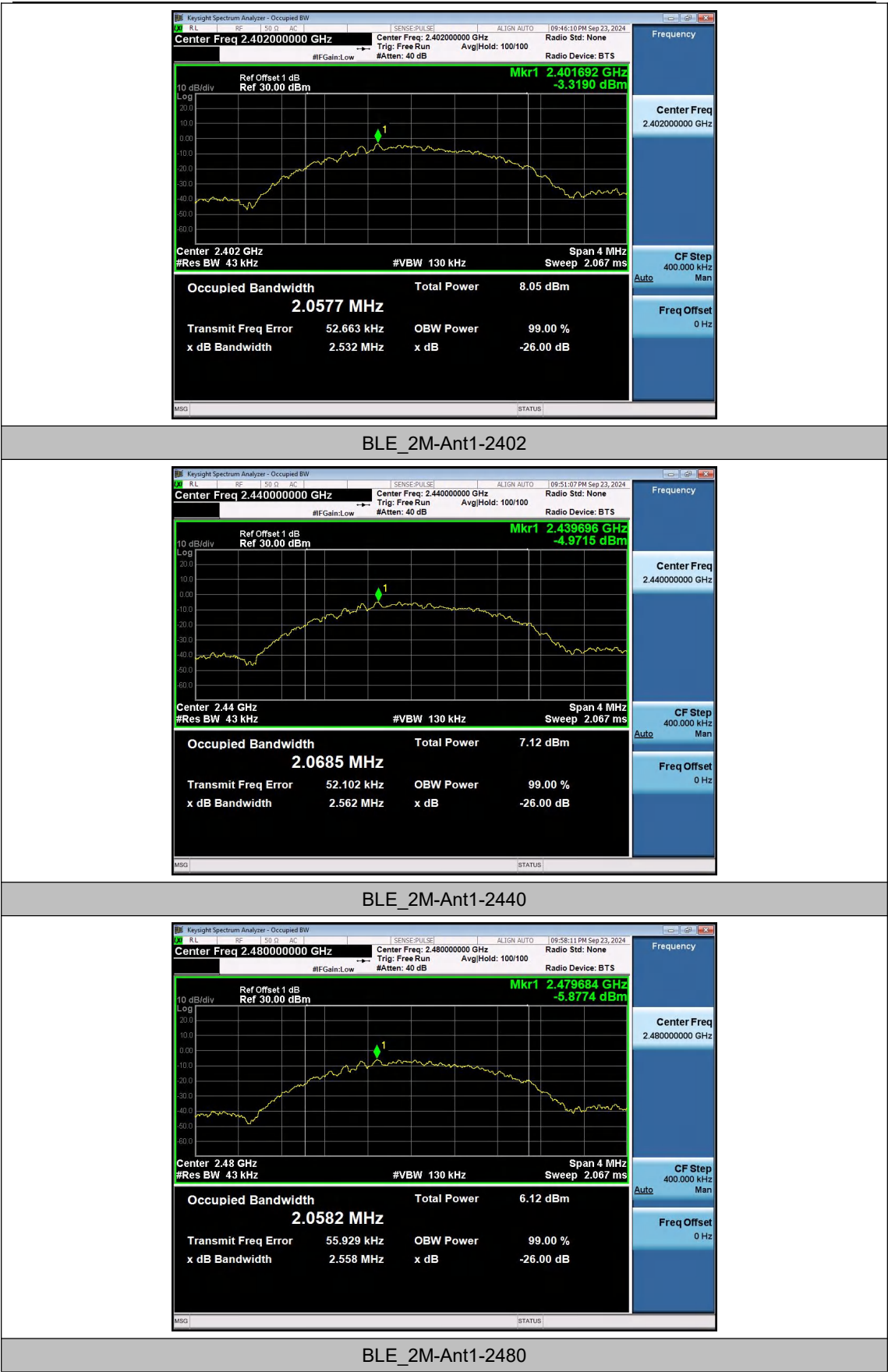


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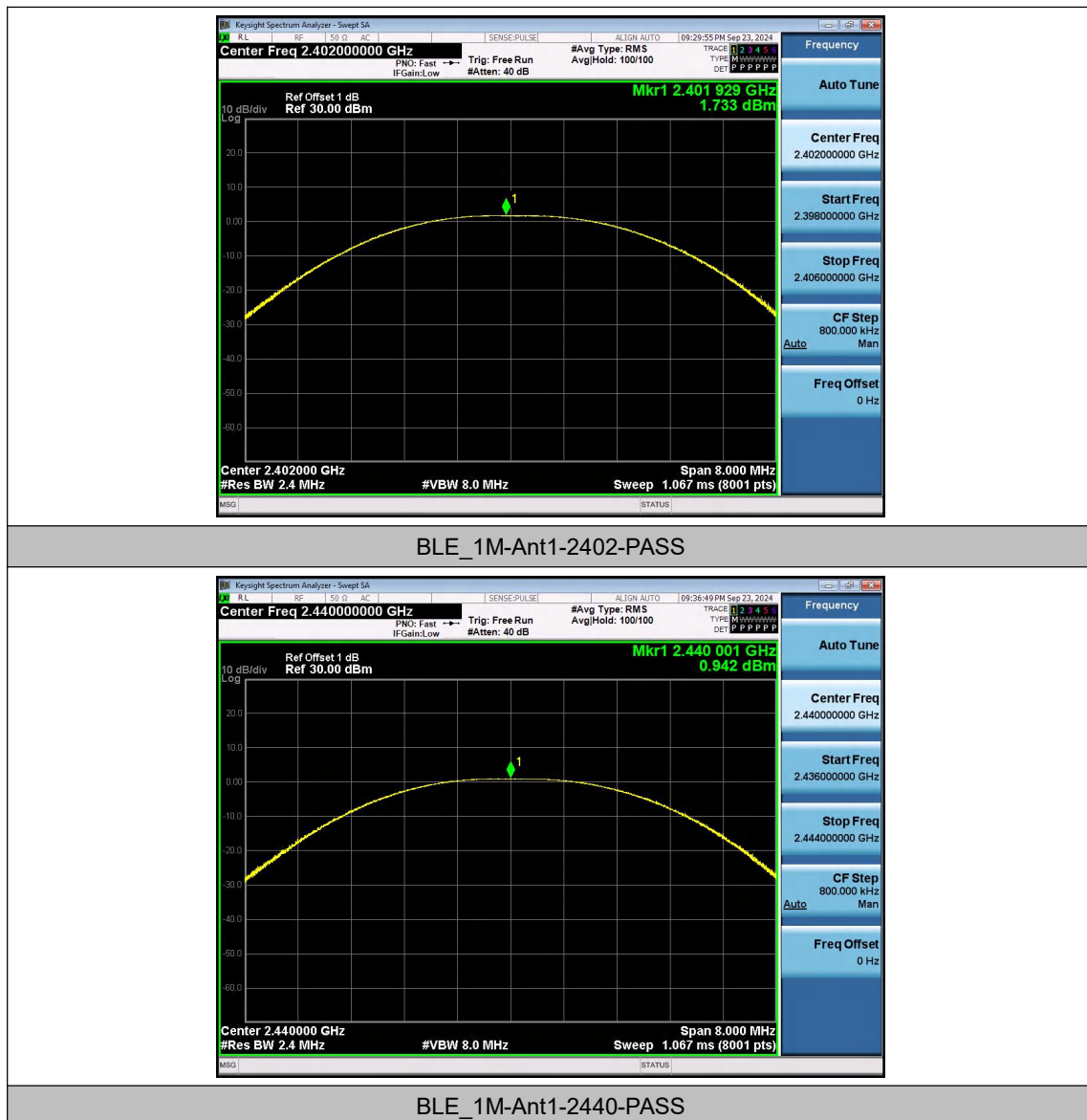


Appendix C: Maximum output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.73	≤30	PASS
BLE_1M	Ant1	2440	0.94	≤30	PASS
BLE_1M	Ant1	2480	-0.13	≤30	PASS
BLE_2M	Ant1	2402	1.75	≤30	PASS
BLE_2M	Ant1	2440	0.91	≤30	PASS
BLE_2M	Ant1	2480	-0.17	≤30	PASS

Test Graphs Peak

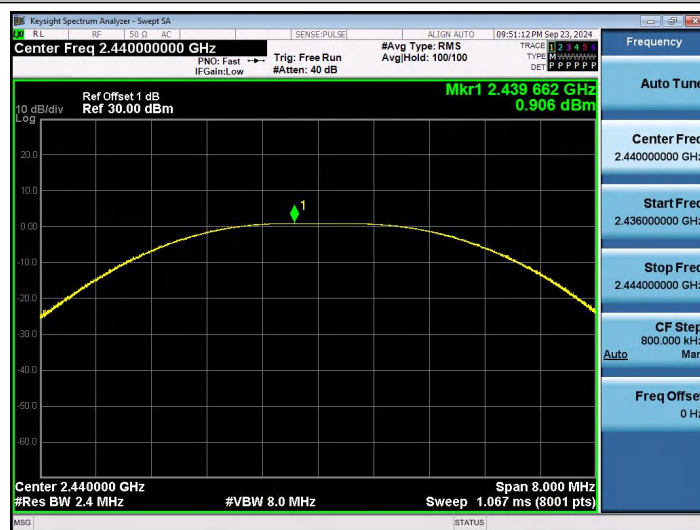




BLE_1M-Ant1-2480-PASS

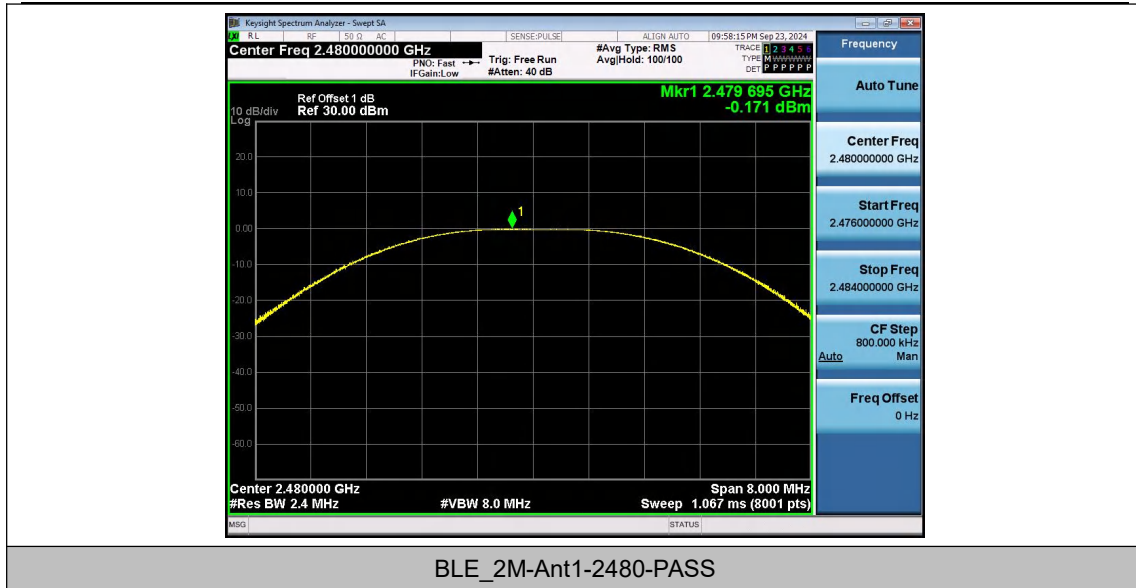


BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS





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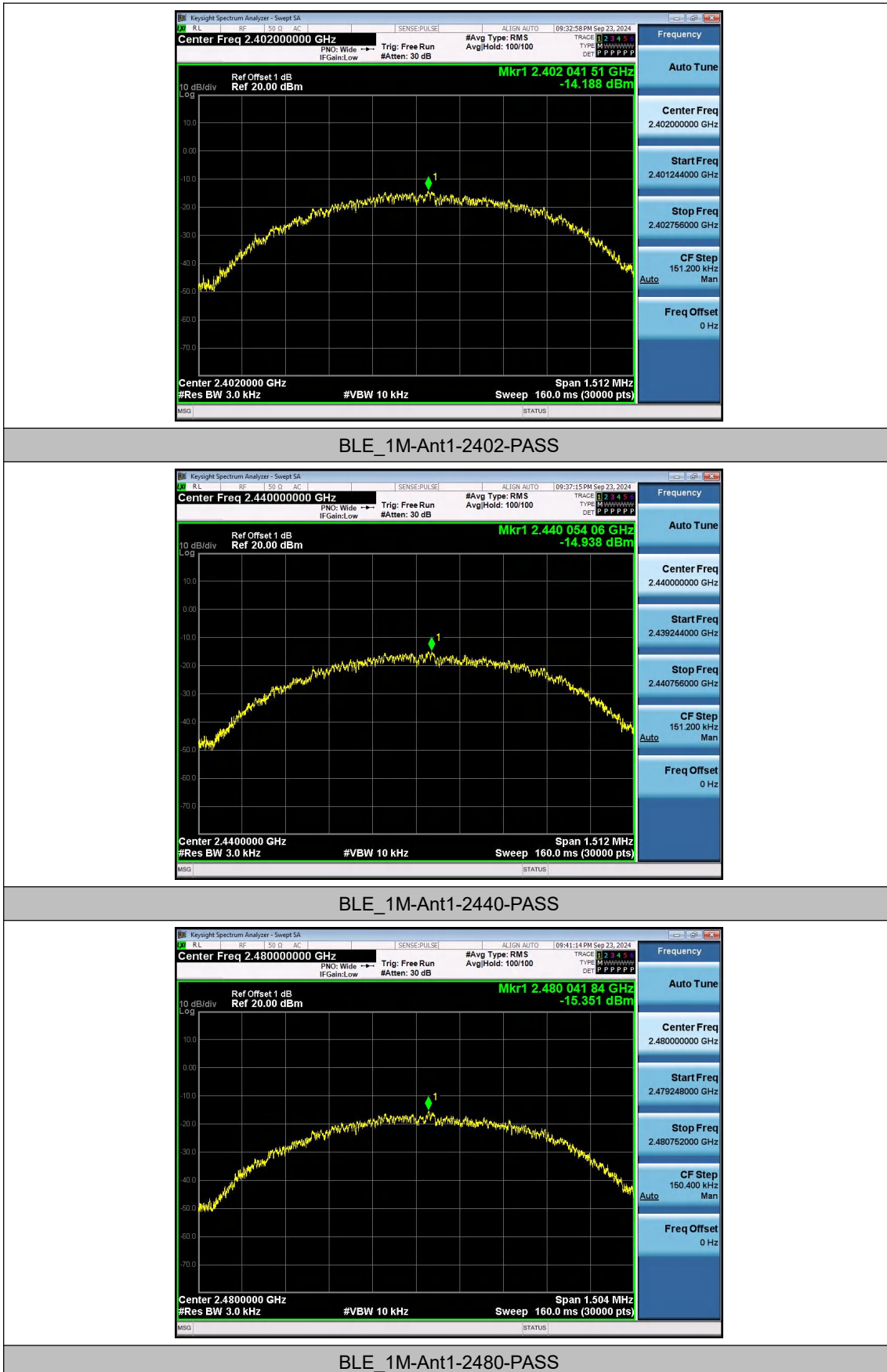
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.19	≤8.00	PASS
BLE_1M	Ant1	2440	-14.94	≤8.00	PASS
BLE_1M	Ant1	2480	-15.35	≤8.00	PASS
BLE_2M	Ant1	2402	-17.69	≤8.00	PASS
BLE_2M	Ant1	2440	-18.76	≤8.00	PASS
BLE_2M	Ant1	2480	-19.61	≤8.00	PASS



Test Graphs



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



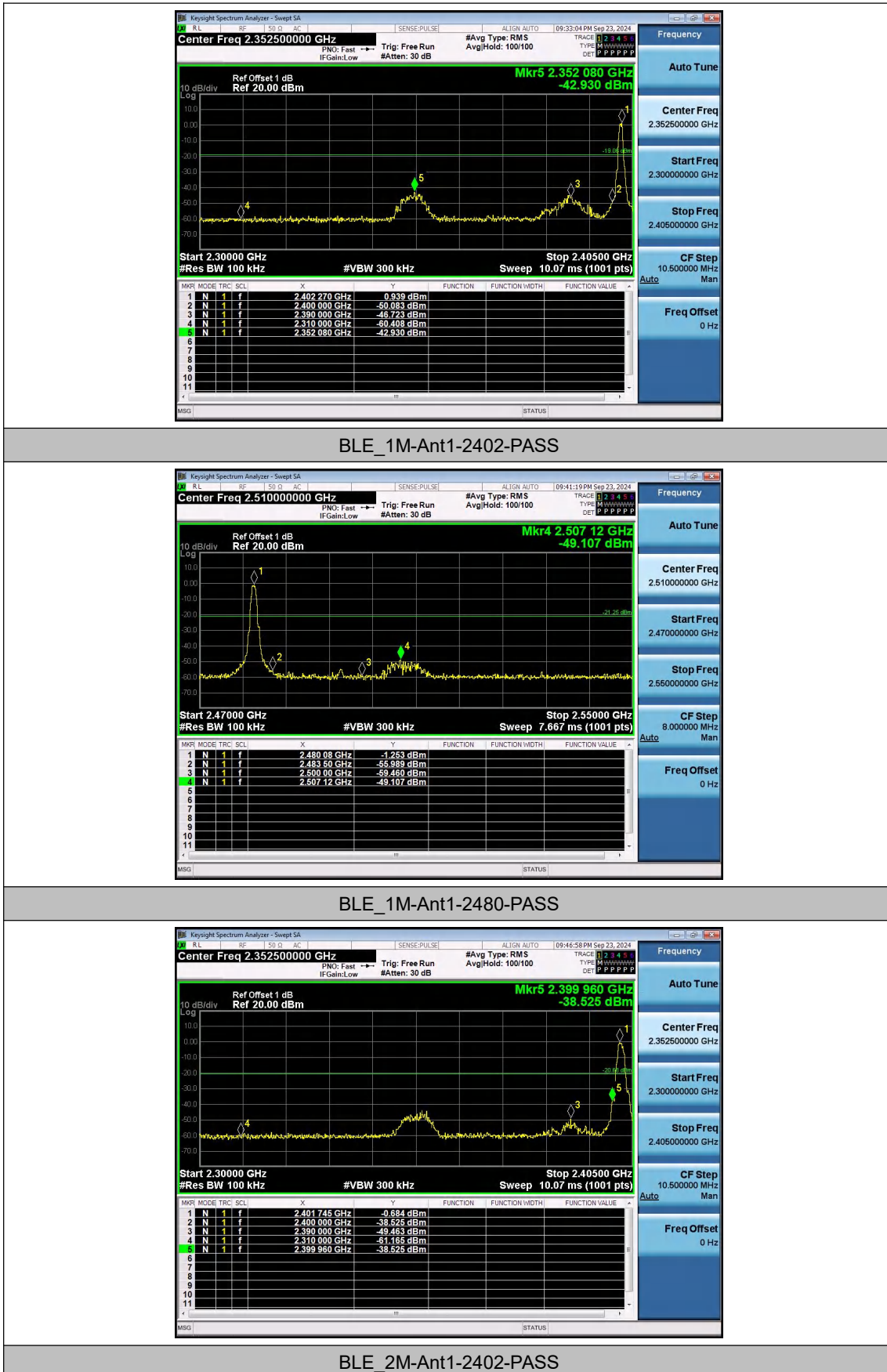
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.94	-42.93	≤-19.06	PASS
BLE_1M	Ant1	High	2480	-1.25	-49.11	≤-21.25	PASS
BLE_2M	Ant1	Low	2402	-0.68	-38.53	≤-20.68	PASS
BLE_2M	Ant1	High	2480	-2.93	-54.77	≤-22.93	PASS



Test Graphs

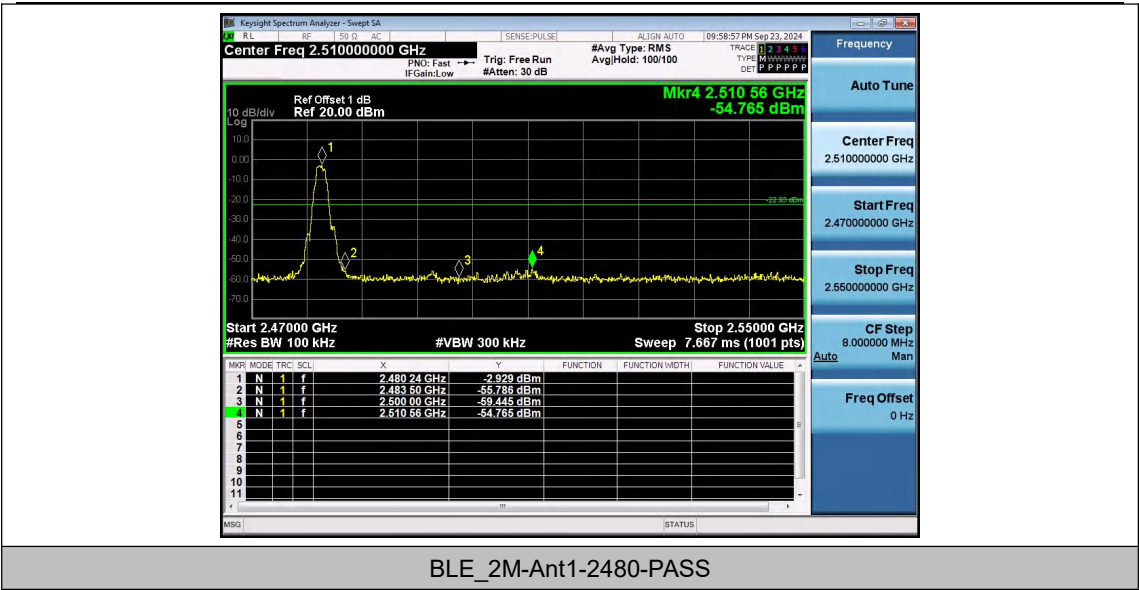


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BLE_2M-Ant1-2480-PASS

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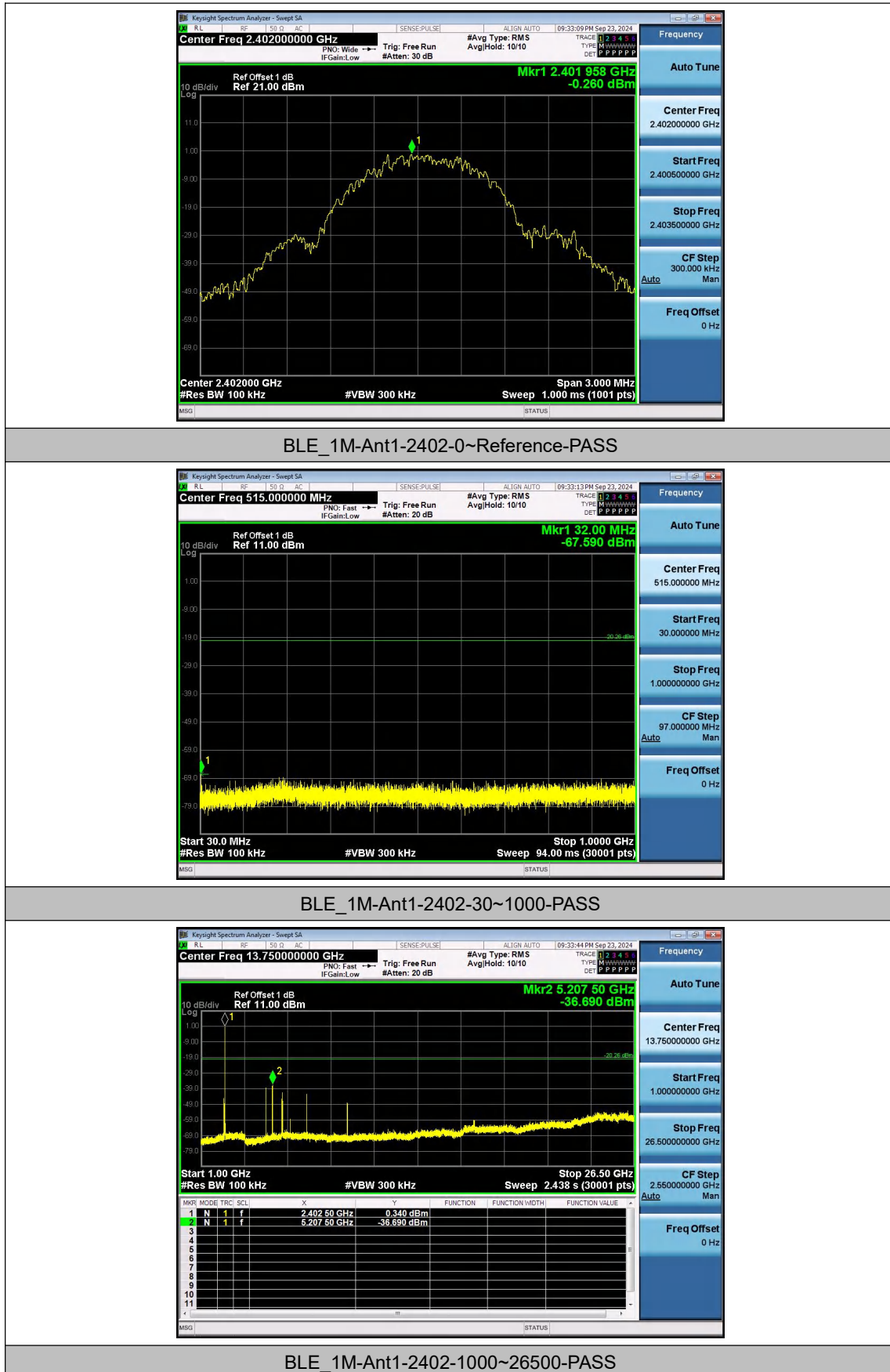
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.26	-0.26	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.26	-67.59	≤-20.26	PASS
BLE_1M	Ant1	2402	1000~26500	-0.26	-36.69	≤-20.26	PASS
BLE_1M	Ant1	2440	0~Reference	-0.06	-0.06	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.06	-33.47	≤-20.06	PASS
BLE_1M	Ant1	2440	1000~26500	-0.06	-35.52	≤-20.06	PASS
BLE_1M	Ant1	2480	0~Reference	-1.62	-1.62	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.62	-29.37	≤-21.62	PASS
BLE_1M	Ant1	2480	1000~26500	-1.62	-32.92	≤-21.62	PASS
BLE_2M	Ant1	2402	0~Reference	-1.55	-1.55	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.55	-66.94	≤-21.55	PASS
BLE_2M	Ant1	2402	1000~26500	-1.55	-38.51	≤-21.55	PASS
BLE_2M	Ant1	2440	0~Reference	-2.19	-2.19	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.19	-68.6	≤-22.19	PASS
BLE_2M	Ant1	2440	1000~26500	-2.19	-38.81	≤-22.19	PASS
BLE_2M	Ant1	2480	0~Reference	-3.60	-3.60	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.60	-68.75	≤-23.6	PASS
BLE_2M	Ant1	2480	1000~26500	-3.60	-34.84	≤-23.6	PASS



Test Graphs



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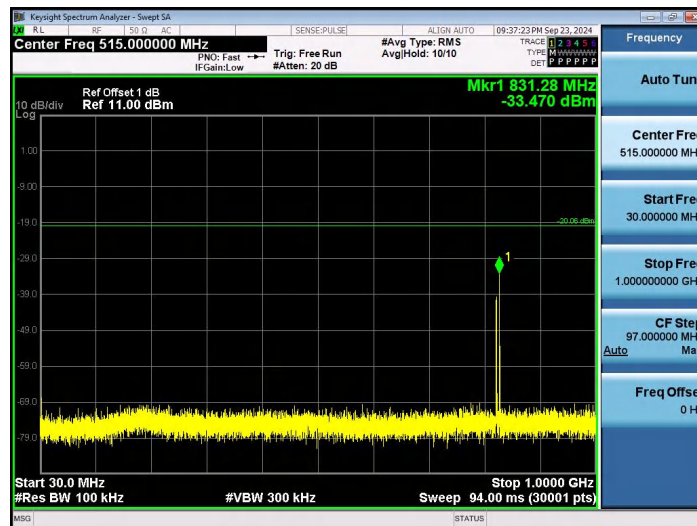
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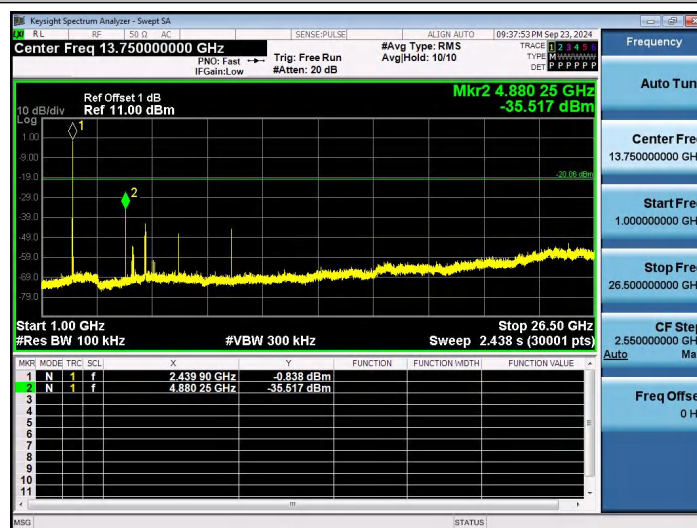




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

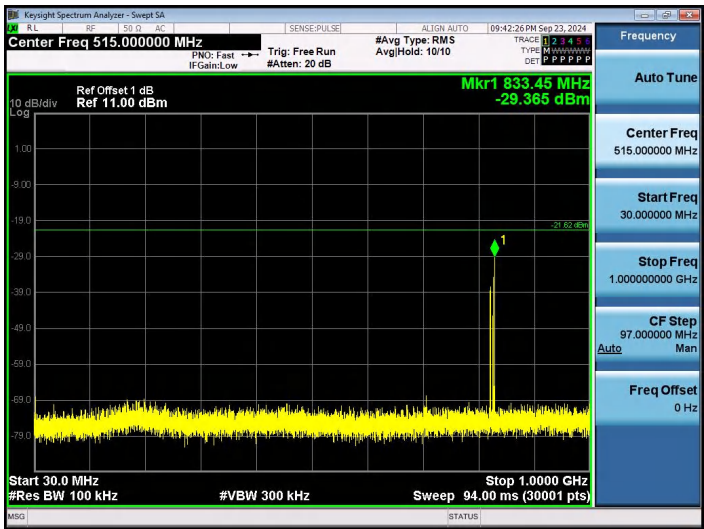


BLE_1M-Ant1-2440-1000~26500-PASS

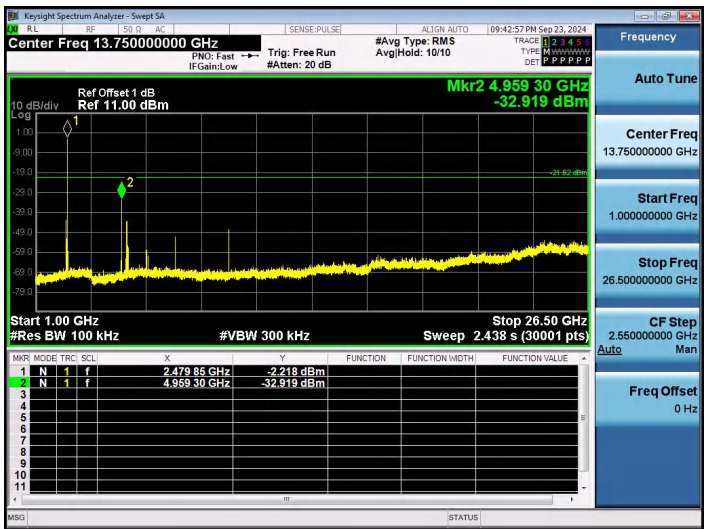




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

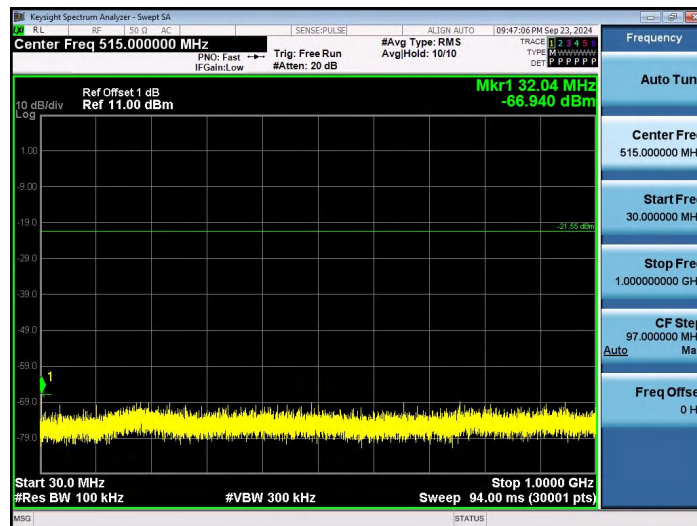


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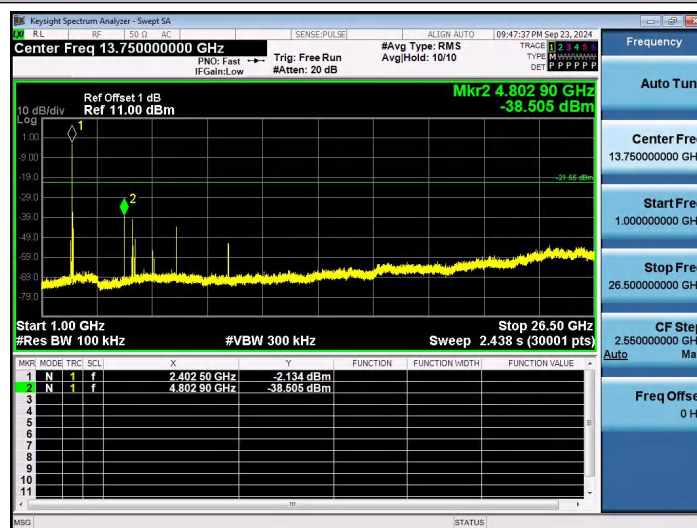




BLE_2M-Ant1-2402-0~Reference-PASS

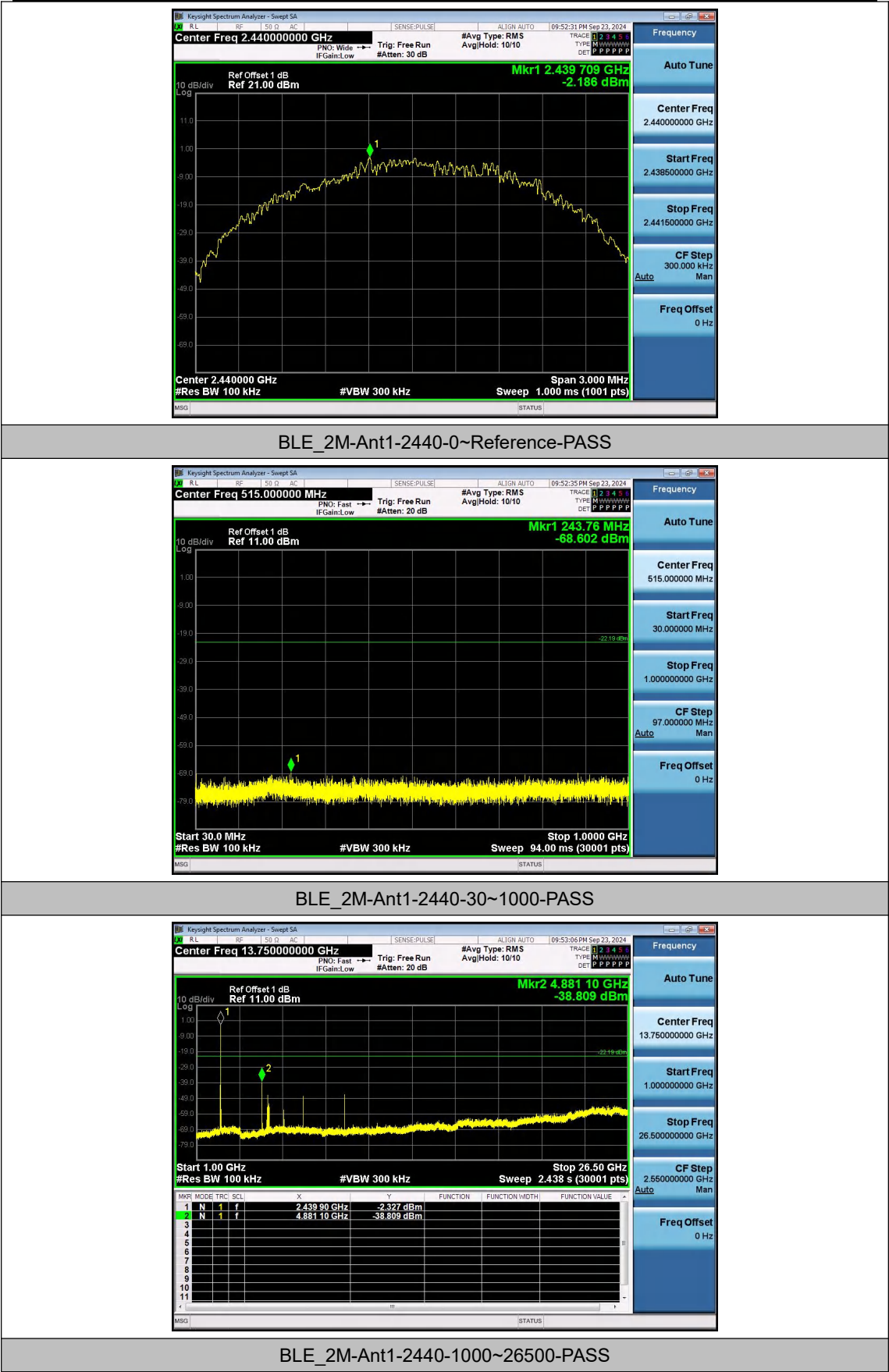


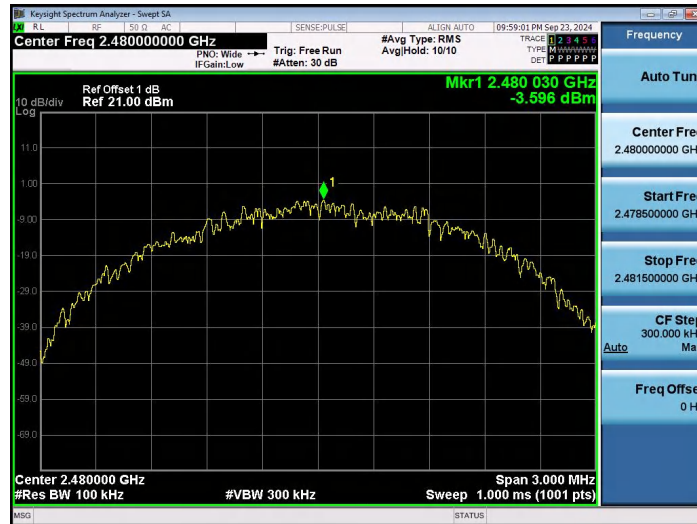
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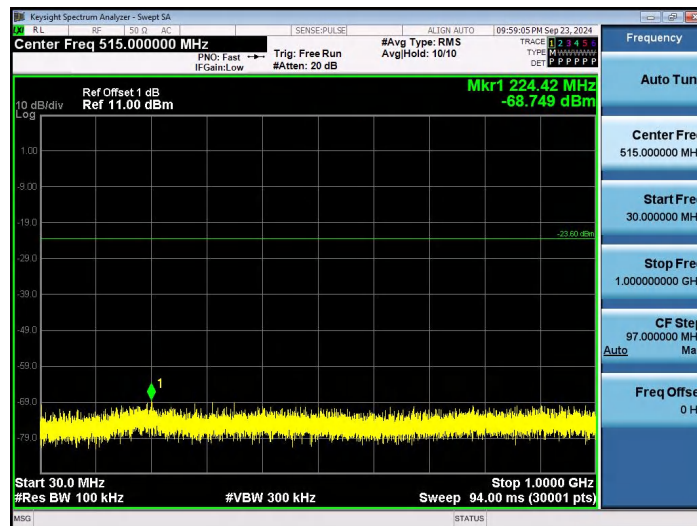
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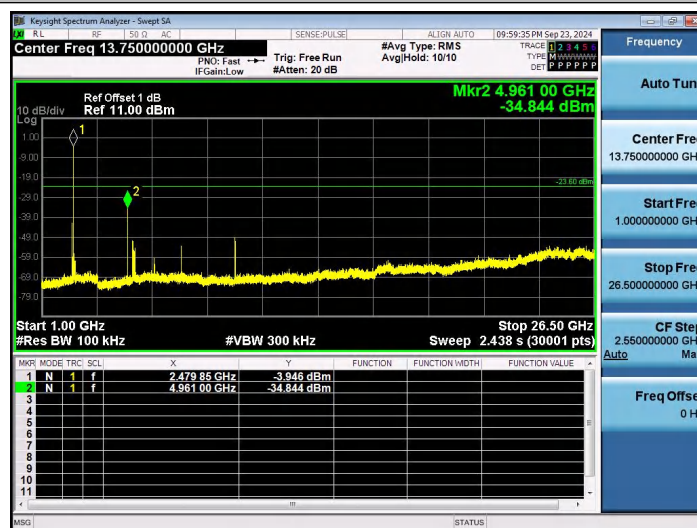




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



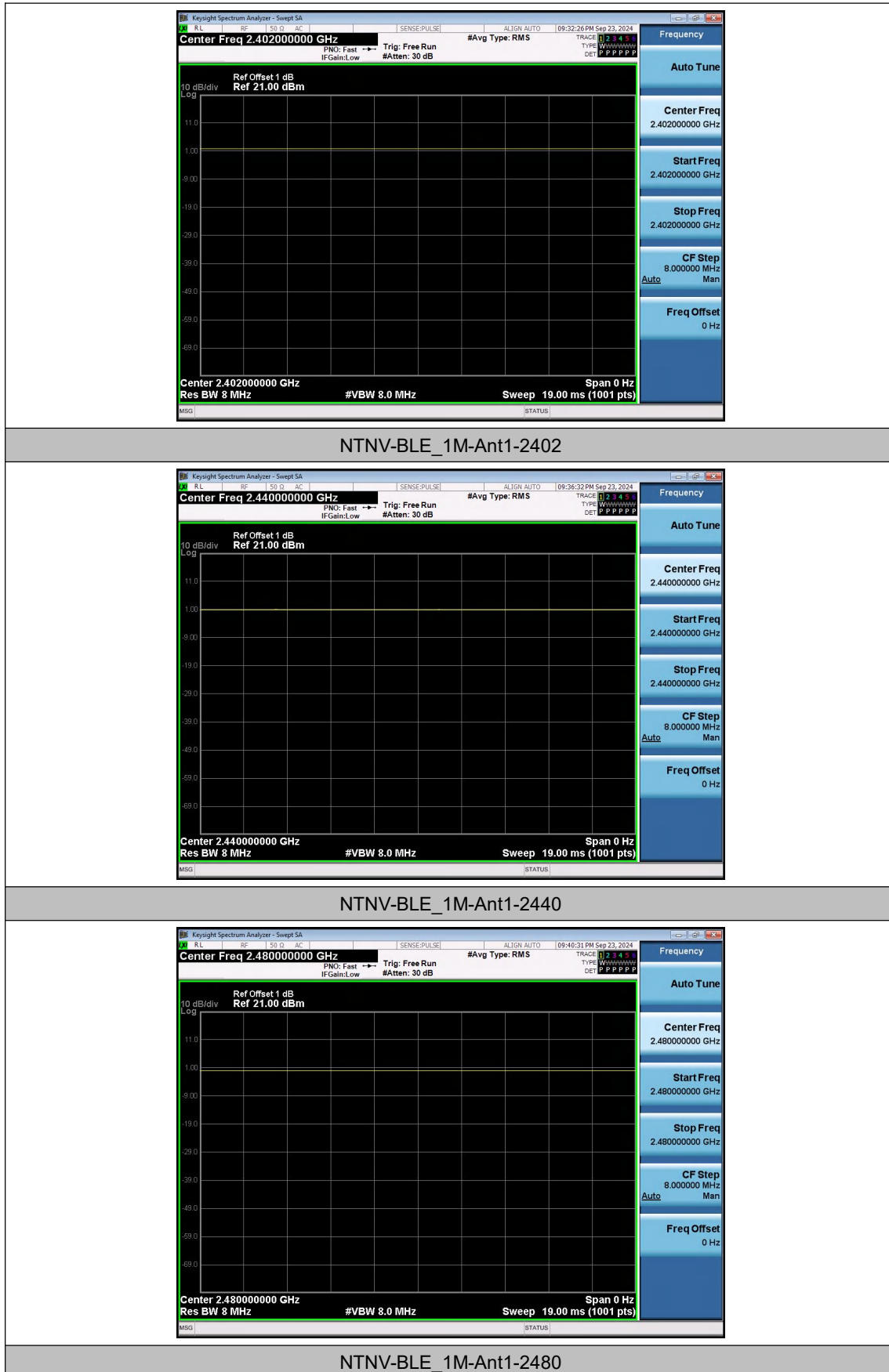
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0
BLE_1M	Ant1	2440	0.00	0.00	100	0
BLE_1M	Ant1	2480	0.00	0.00	100	0
BLE_2M	Ant1	2402	0.00	0.00	100	0
BLE_2M	Ant1	2440	0.00	0.00	100	0
BLE_2M	Ant1	2480	0.00	0.00	100	0



Test Graphs



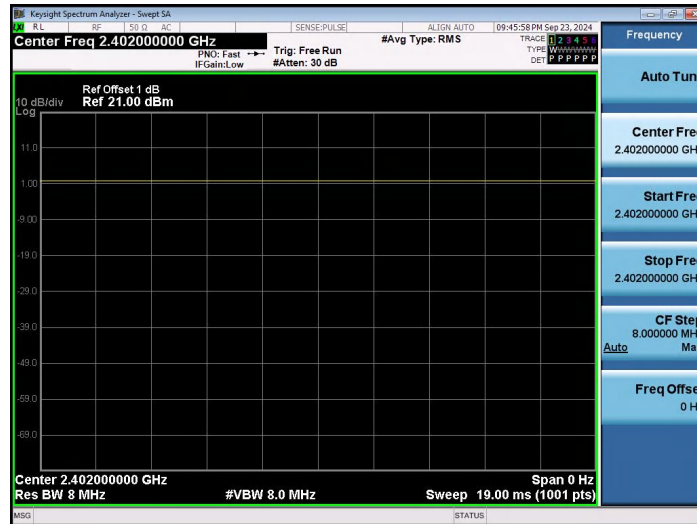
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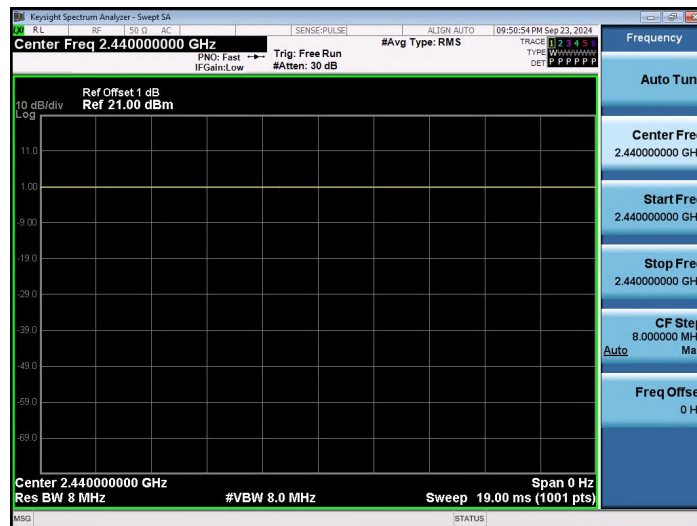


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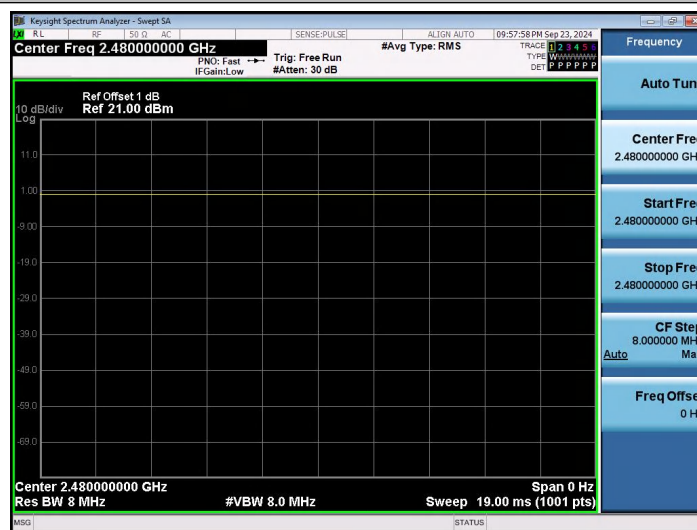




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

