

Appendix Test Data

Report No.:	1812C50572612501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-31	Finish Test Date:	2025-11-12
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.5°C	Relative Humidity:	42%
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	0.632	2401.716	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.620	2439.744	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.684	2479.692	2480.376	0.5	PASS
BLE_2M	Ant1	2402	1.056	2401.500	2402.556	0.5	PASS
BLE_2M	Ant1	2440	1.096	2439.468	2440.564	0.5	PASS
BLE_2M	Ant1	2480	0.936	2479.488	2480.424	0.5	PASS

Test Graphs



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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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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	1.0319	2401.5311	2402.5630	---	---
BLE_1M	Ant1	2440	1.0290	2439.5321	2440.5611	---	---
BLE_1M	Ant1	2480	1.0355	2479.5218	2480.5573	---	---
BLE_2M	Ant1	2402	2.0176	2401.0522	2403.0698	---	---
BLE_2M	Ant1	2440	2.0274	2439.0589	2441.0863	---	---
BLE_2M	Ant1	2480	2.0353	2479.0434	2481.0787	---	---

Test Graphs



BLE_1M-Ant1-2402

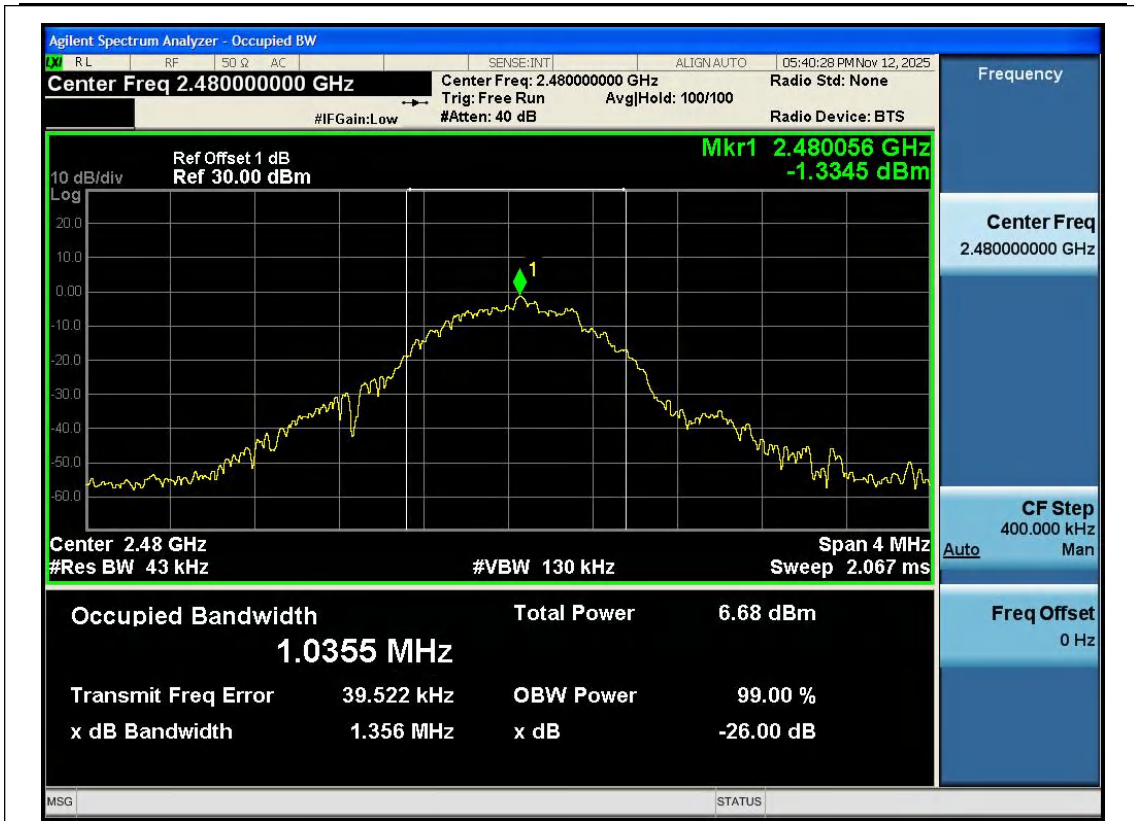


BLE_1M-Ant1-2440

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BLE_1M-Ant1-2480

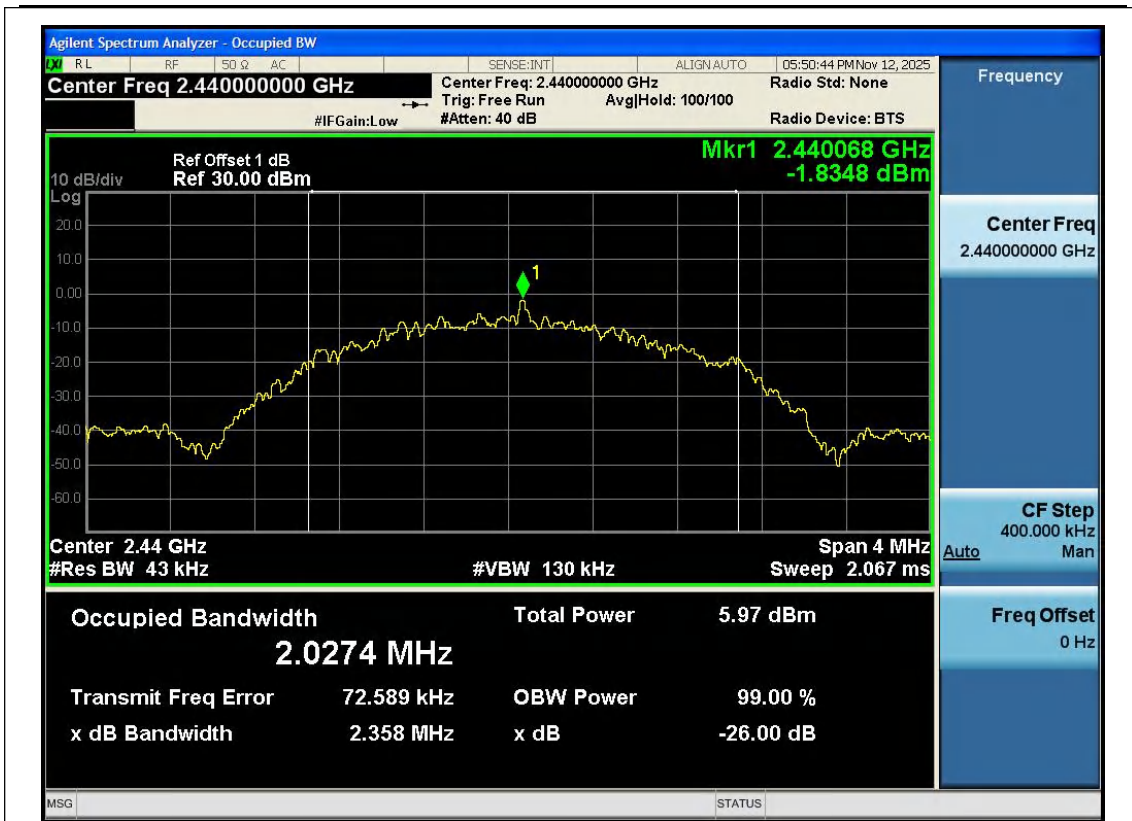


BLE_2M-Ant1-2402

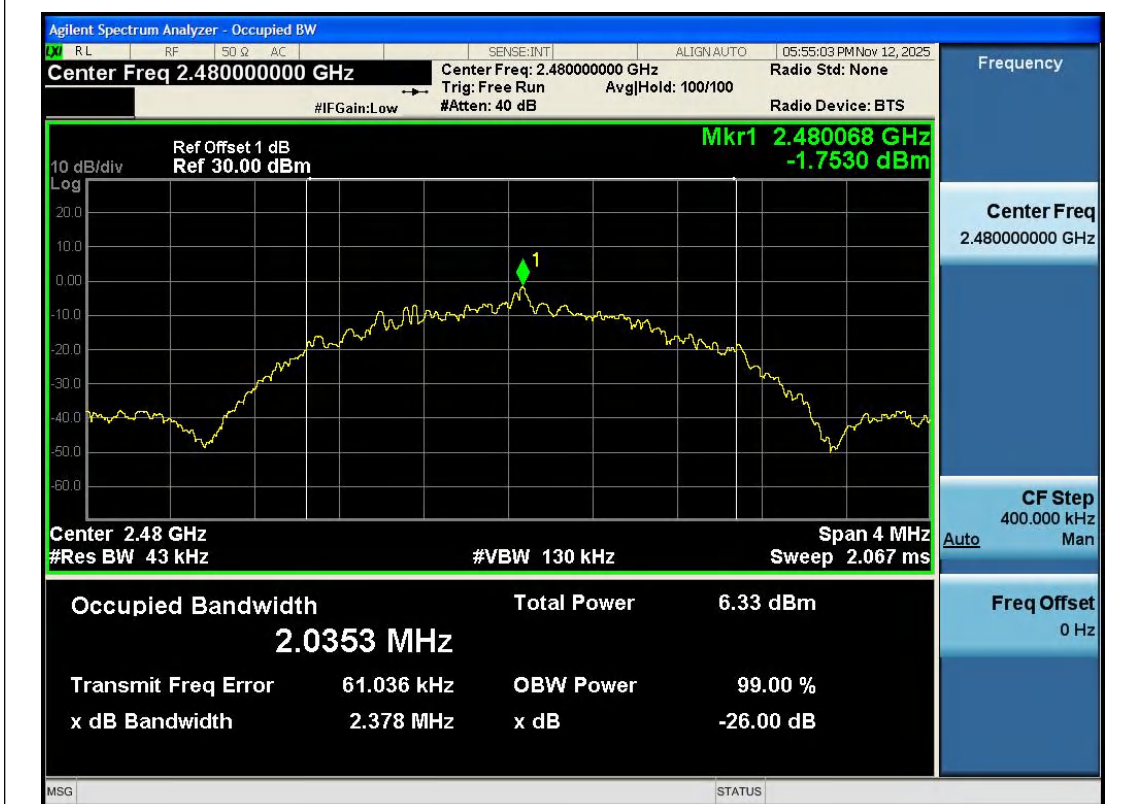
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BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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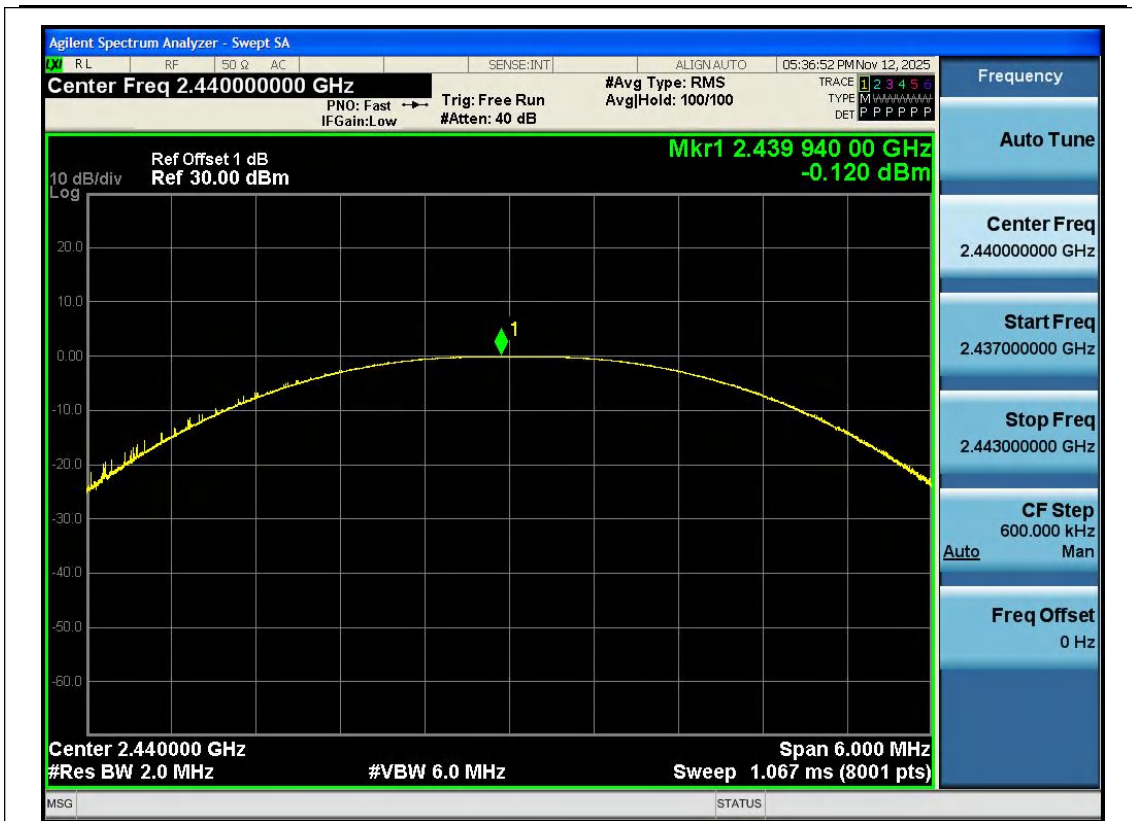
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.47	≤30	PASS
BLE_1M	Ant1	2440	-0.12	≤30	PASS
BLE_1M	Ant1	2480	0.16	≤30	PASS
BLE_2M	Ant1	2402	-0.46	≤30	PASS
BLE_2M	Ant1	2440	-0.16	≤30	PASS
BLE_2M	Ant1	2480	0.15	≤30	PASS

Test Graphs Peak





BLE_1M-Ant1-2440-PASS

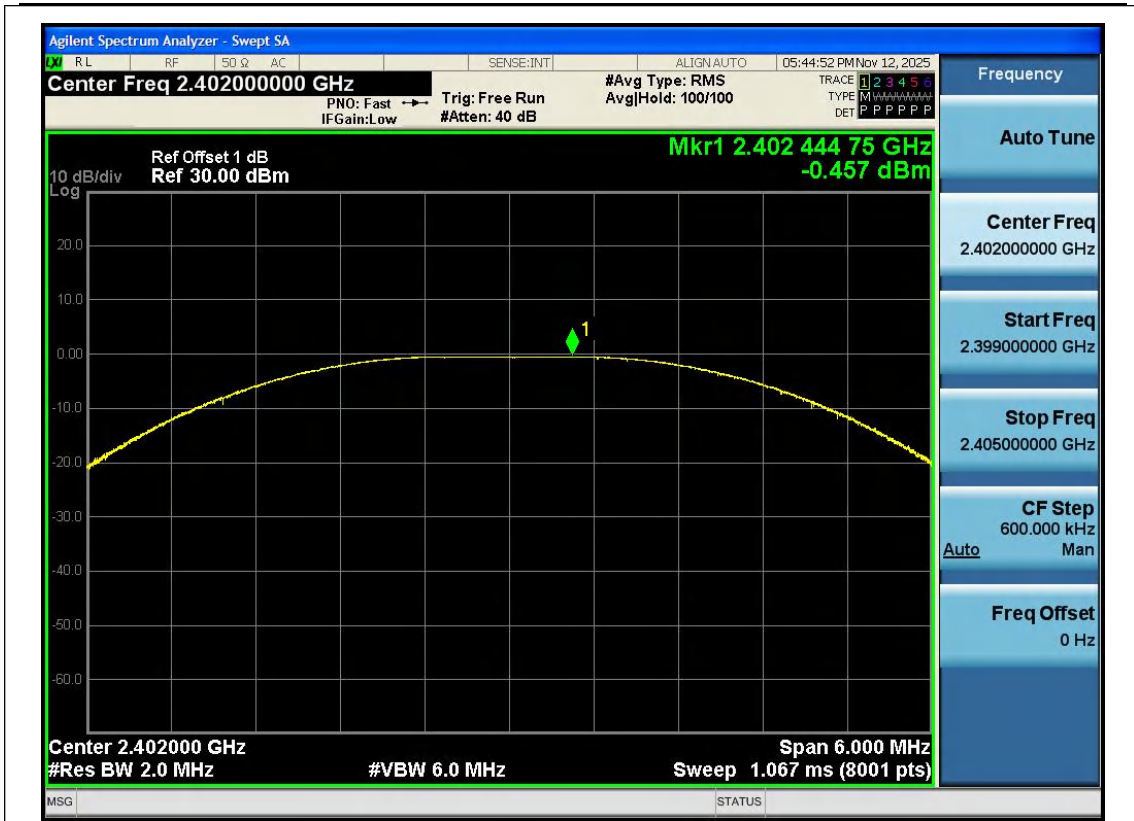


BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS

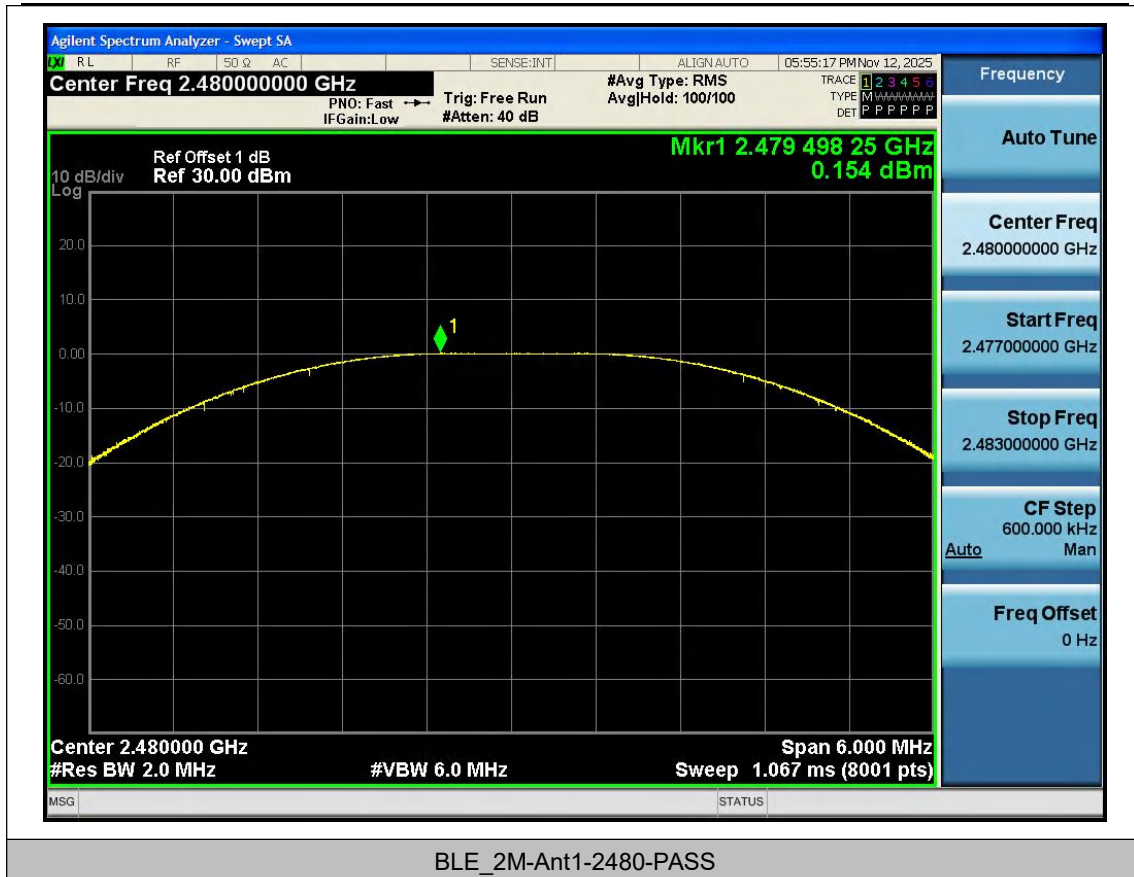


BLE_2M-Ant1-2440-PASS

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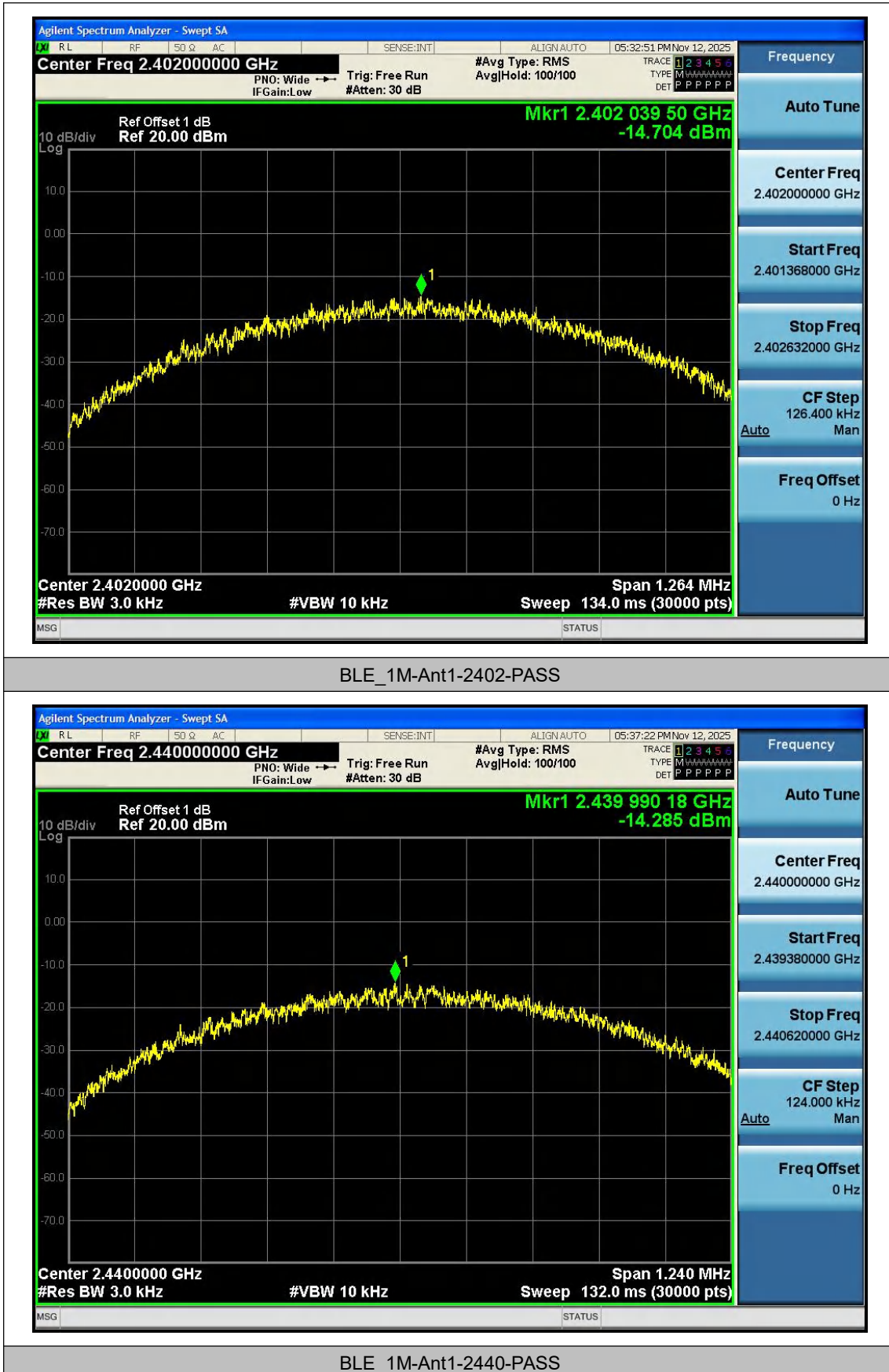
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.70	≤8.00	PASS
BLE_1M	Ant1	2440	-14.29	≤8.00	PASS
BLE_1M	Ant1	2480	-13.98	≤8.00	PASS
BLE_2M	Ant1	2402	-17.28	≤8.00	PASS
BLE_2M	Ant1	2440	-16.00	≤8.00	PASS
BLE_2M	Ant1	2480	-15.24	≤8.00	PASS

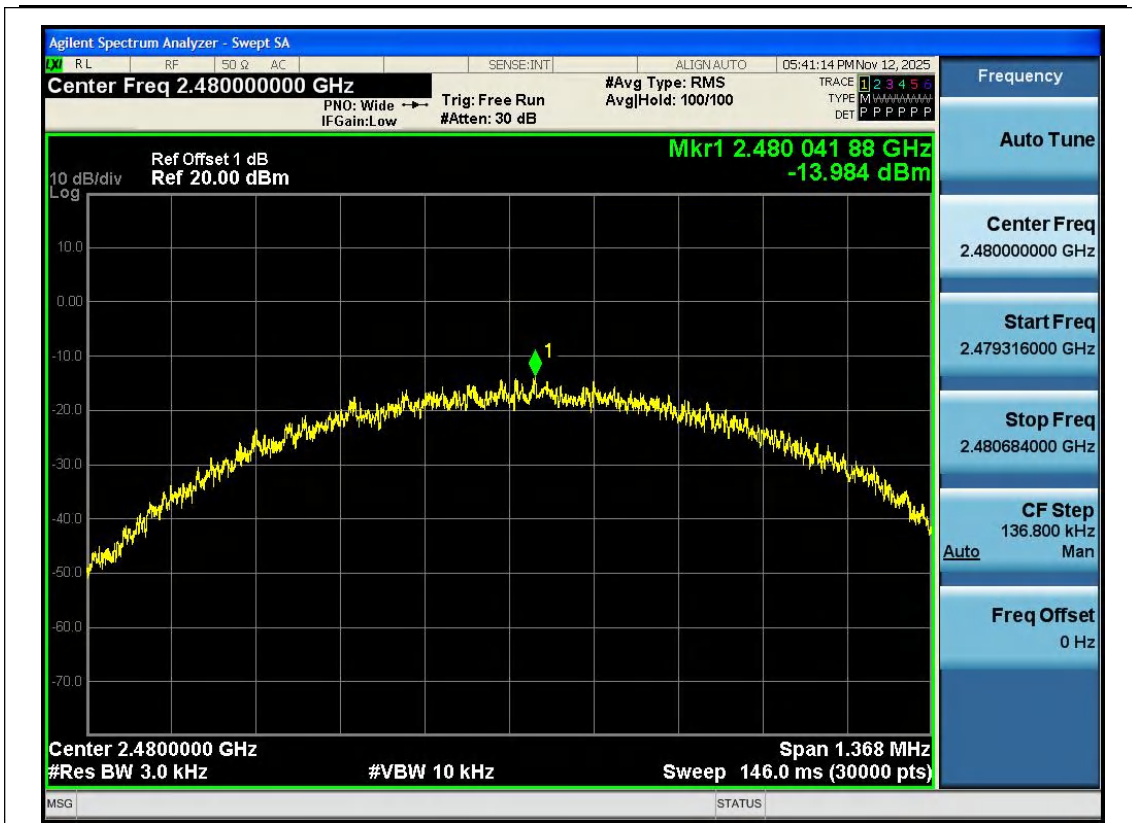
Test Graphs



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BLE_1M-Ant1-2480-PASS

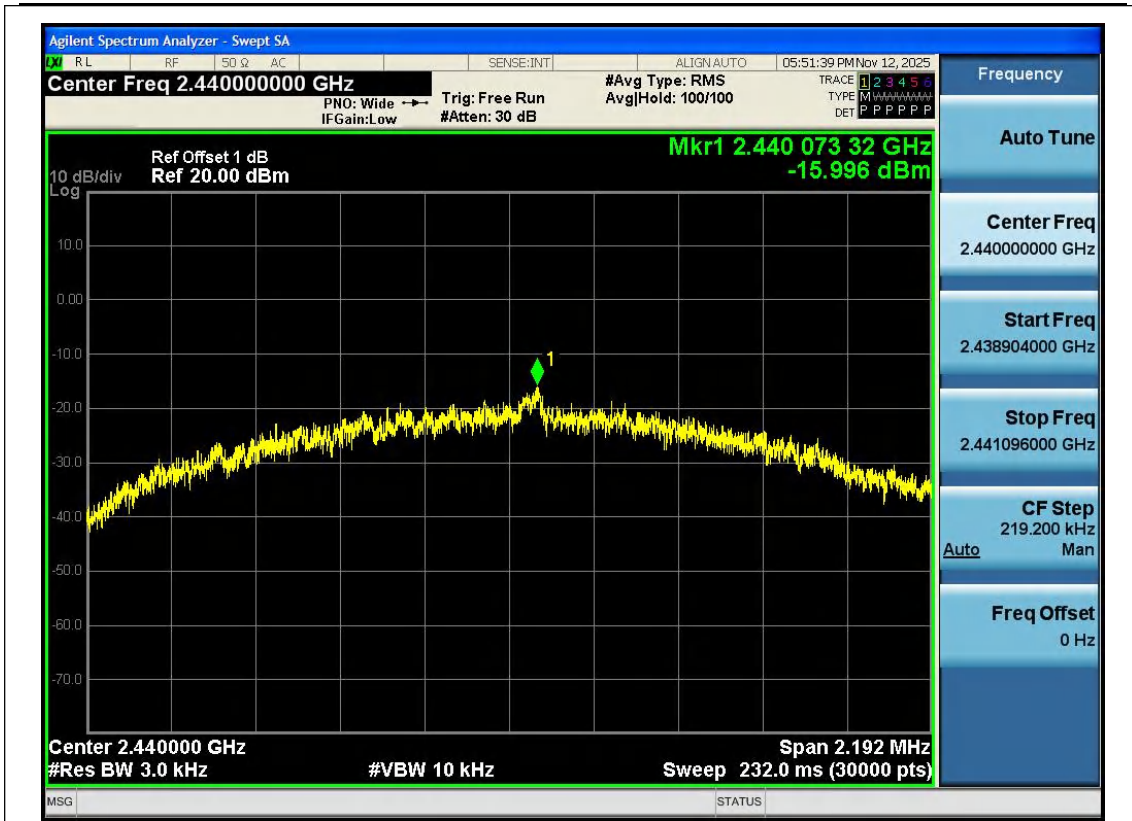


BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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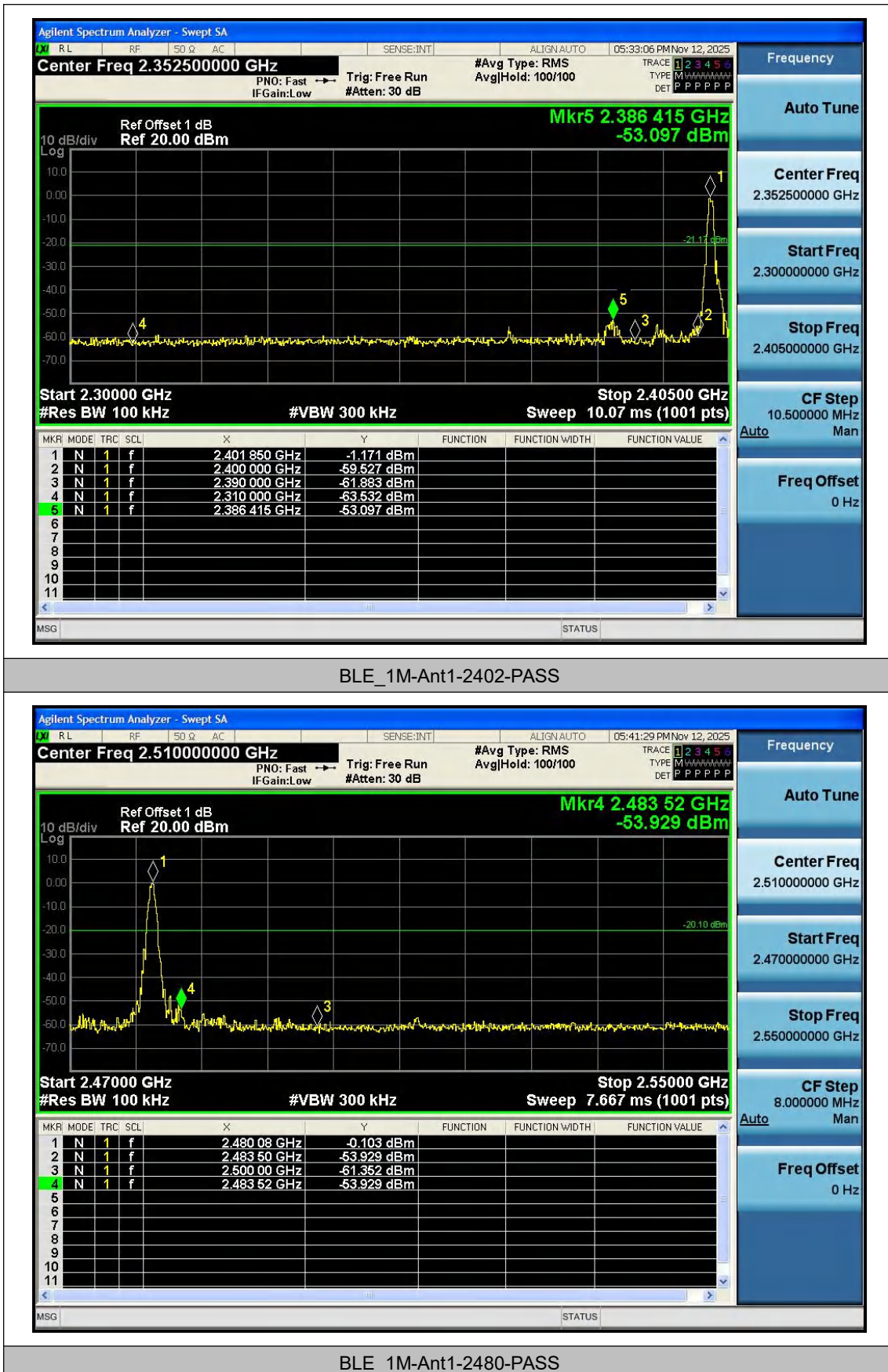
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.17	-53.1	≤-21.17	PASS
BLE_1M	Ant1	High	2480	-0.10	-53.93	≤-20.1	PASS
BLE_2M	Ant1	Low	2402	-0.81	-36.33	≤-20.81	PASS
BLE_2M	Ant1	High	2480	0.14	-51.14	≤-19.86	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

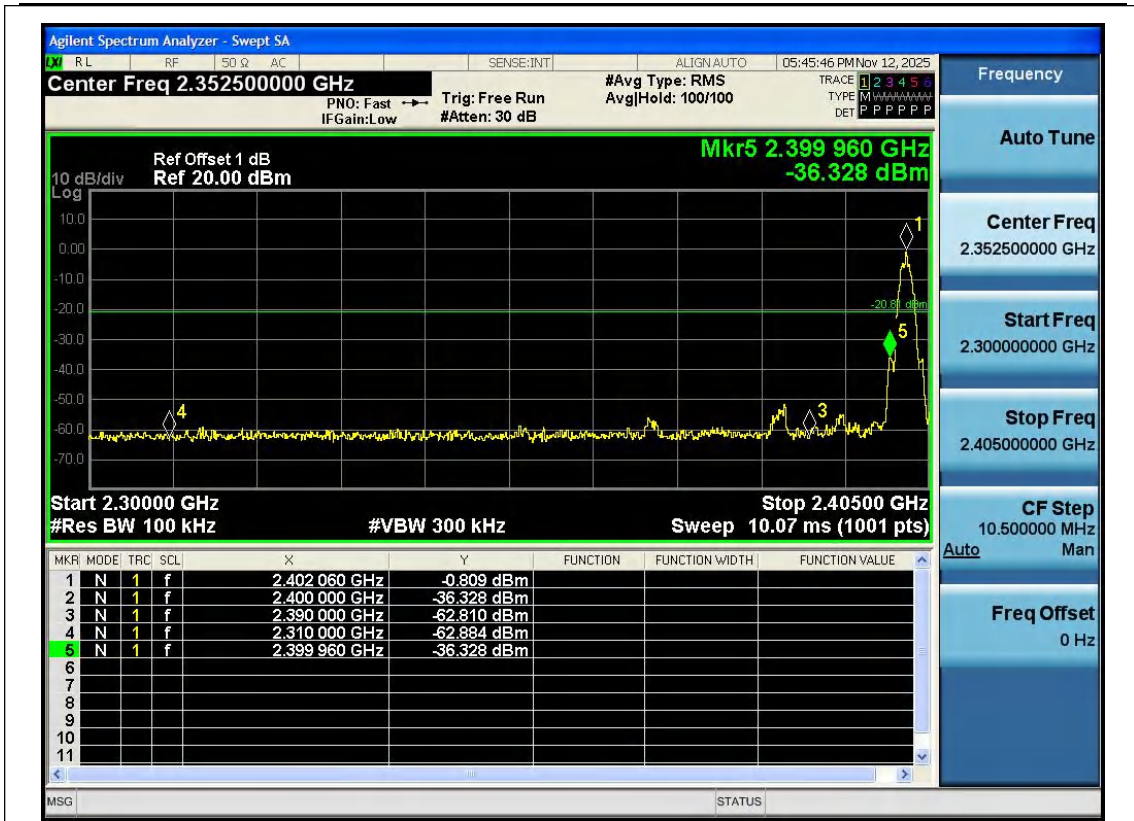
Test Graphs



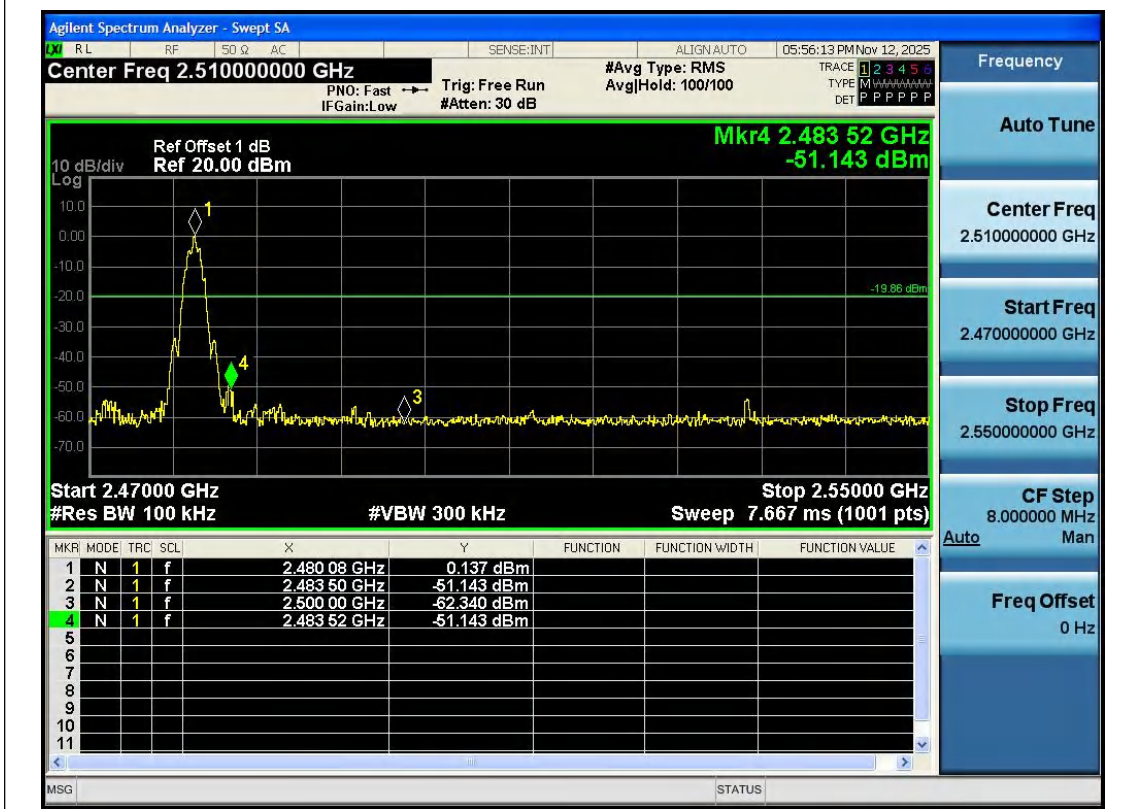
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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

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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	-1.40	-1.40	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.40	-58.28	≤-21.4	PASS
BLE_1M	Ant1	2402	1000~26500	-1.40	-37.36	≤-21.4	PASS
BLE_1M	Ant1	2440	0~Reference	-0.35	-0.35	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.35	-58.25	≤-20.35	PASS
BLE_1M	Ant1	2440	1000~26500	-0.35	-35.61	≤-20.35	PASS
BLE_1M	Ant1	2480	0~Reference	0.00	0.00	---	PASS
BLE_1M	Ant1	2480	30~1000	0.00	-57.87	≤-20	PASS
BLE_1M	Ant1	2480	1000~26500	0.00	-36.69	≤-20	PASS
BLE_2M	Ant1	2402	0~Reference	-0.87	-0.87	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.87	-59	≤-20.87	PASS
BLE_2M	Ant1	2402	1000~26500	-0.87	-38.08	≤-20.87	PASS
BLE_2M	Ant1	2440	0~Reference	-0.33	-0.33	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.33	-58.77	≤-20.33	PASS
BLE_2M	Ant1	2440	1000~26500	-0.33	-35.5	≤-20.33	PASS
BLE_2M	Ant1	2480	0~Reference	-1.27	-1.27	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.27	-58.44	≤-21.27	PASS
BLE_2M	Ant1	2480	1000~26500	-1.27	-37.91	≤-21.27	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

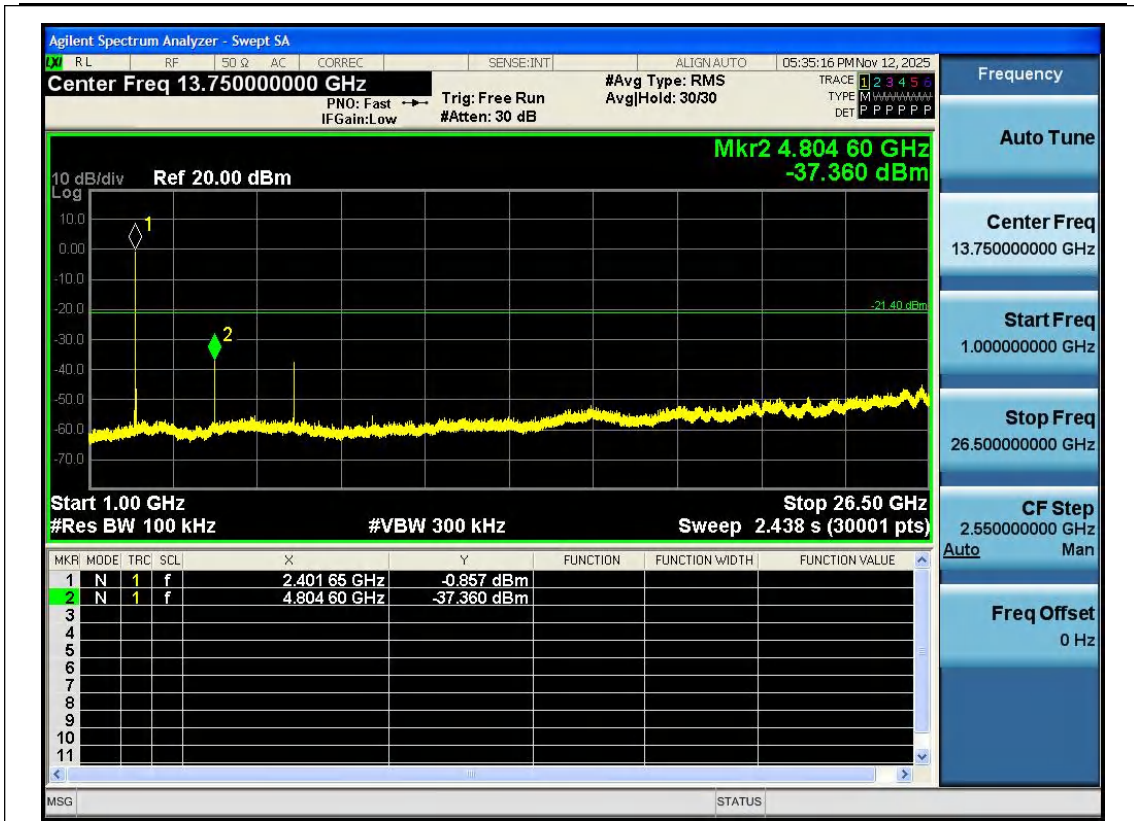
Test Graphs



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BLE_1M-Ant1-2402-1000~26500-PASS

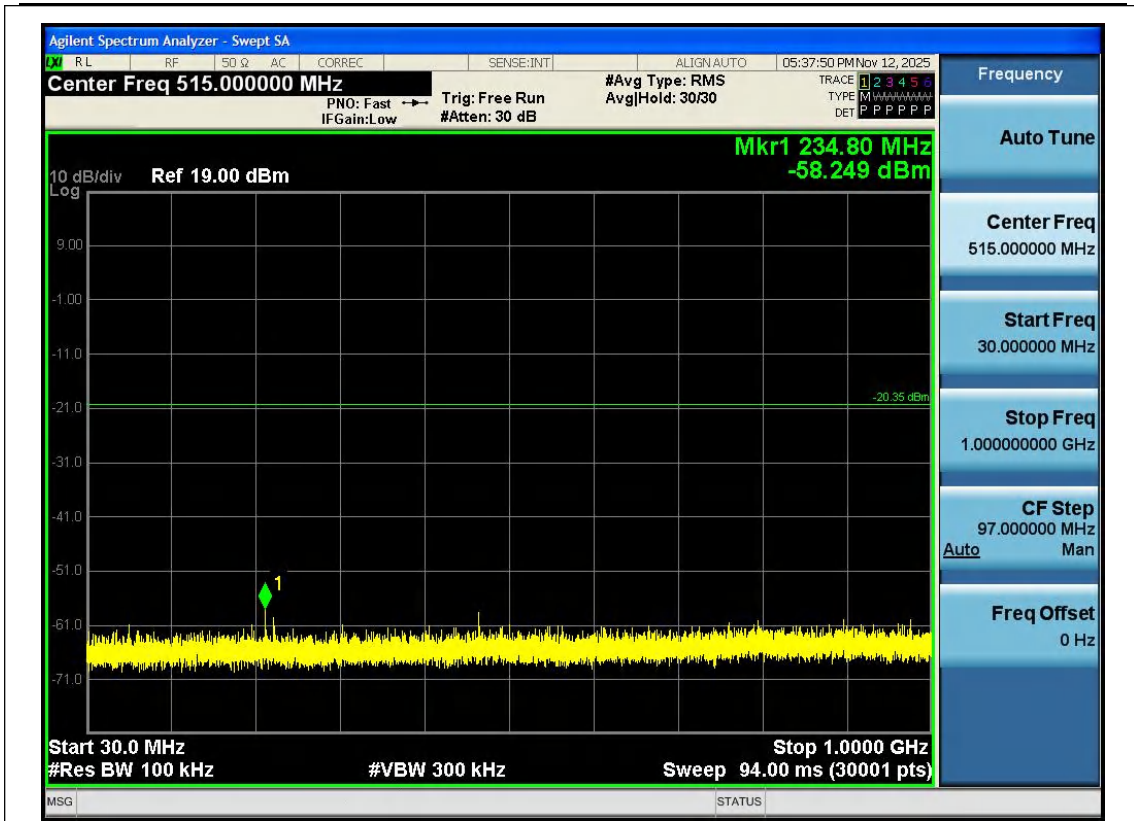


BLE_1M-Ant1-2440-0~Reference-PASS

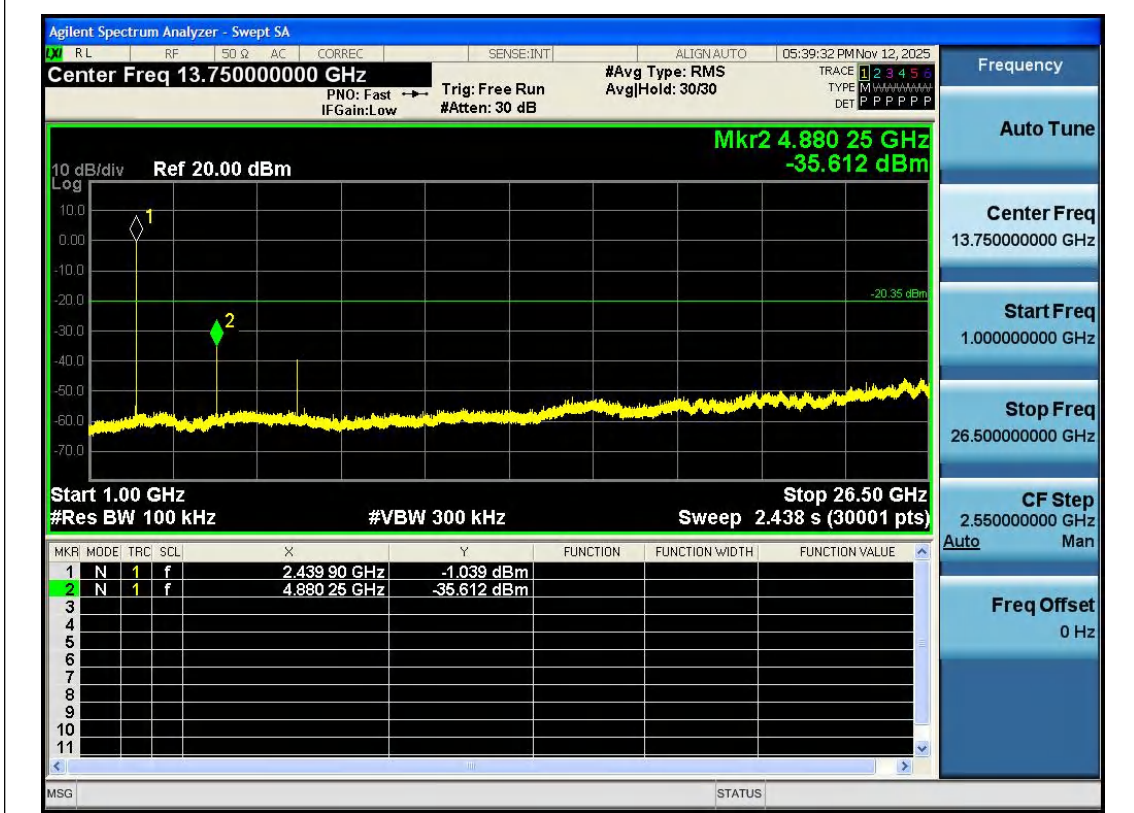
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BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

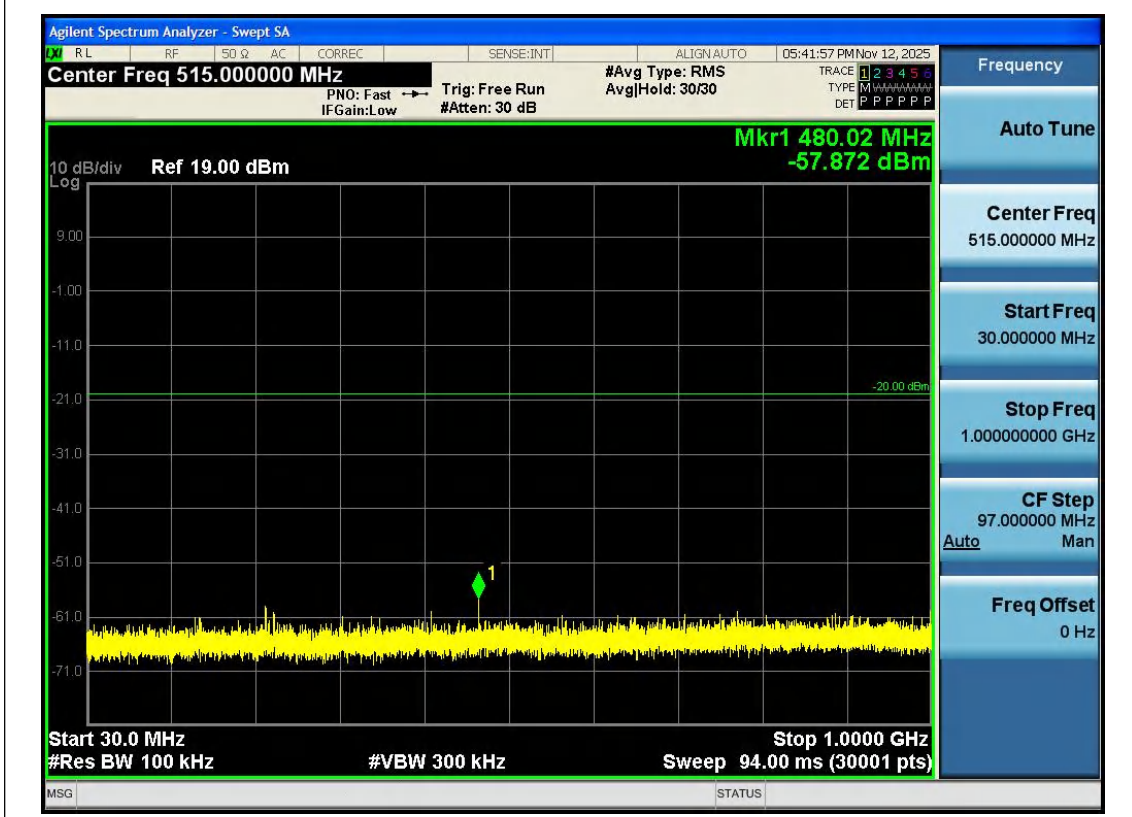
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BLE_1M-Ant1-2480-0~Reference-PASS

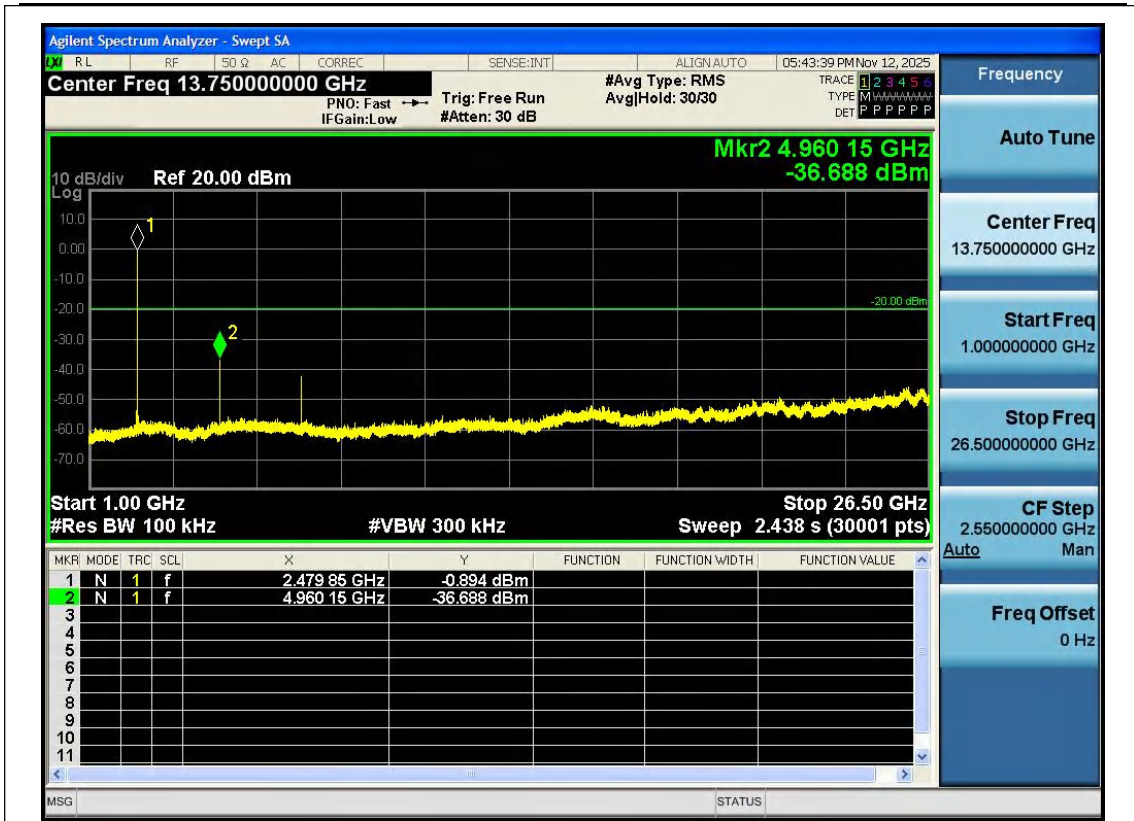


BLE_1M-Ant1-2480-30~1000-PASS

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BLE_1M-Ant1-2480-1000~26500-PASS

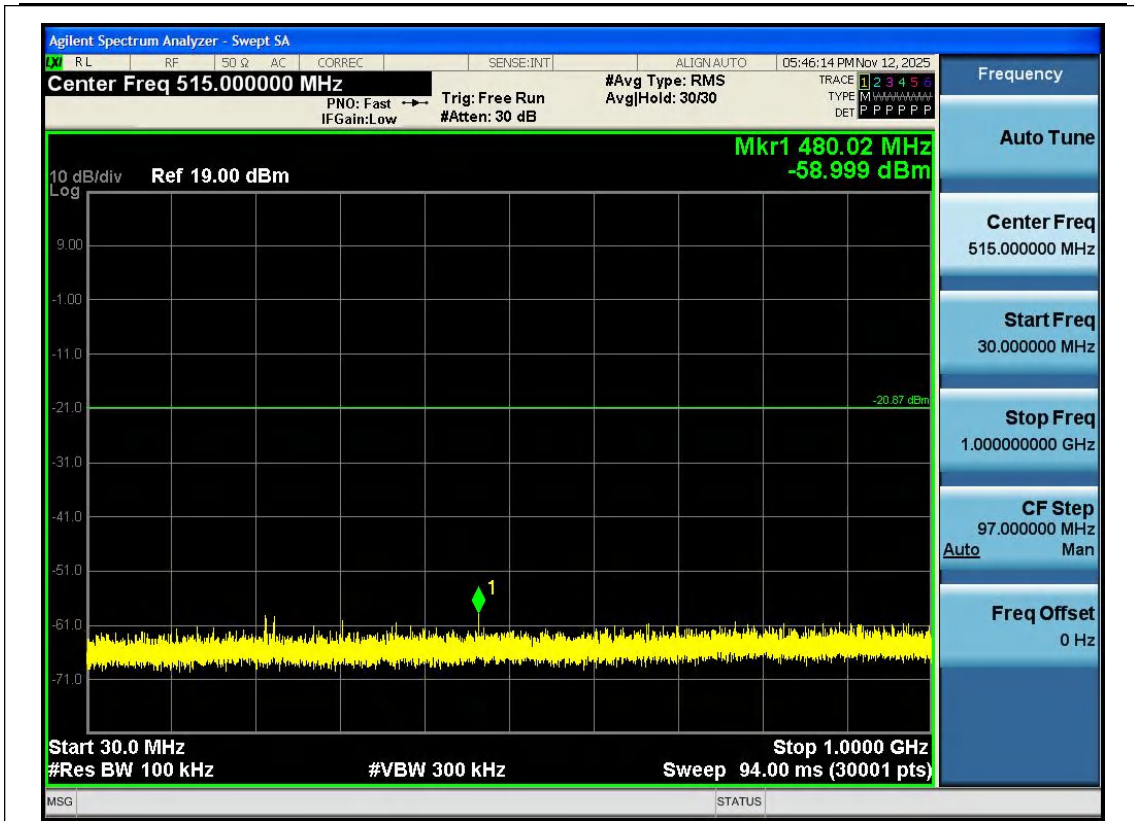


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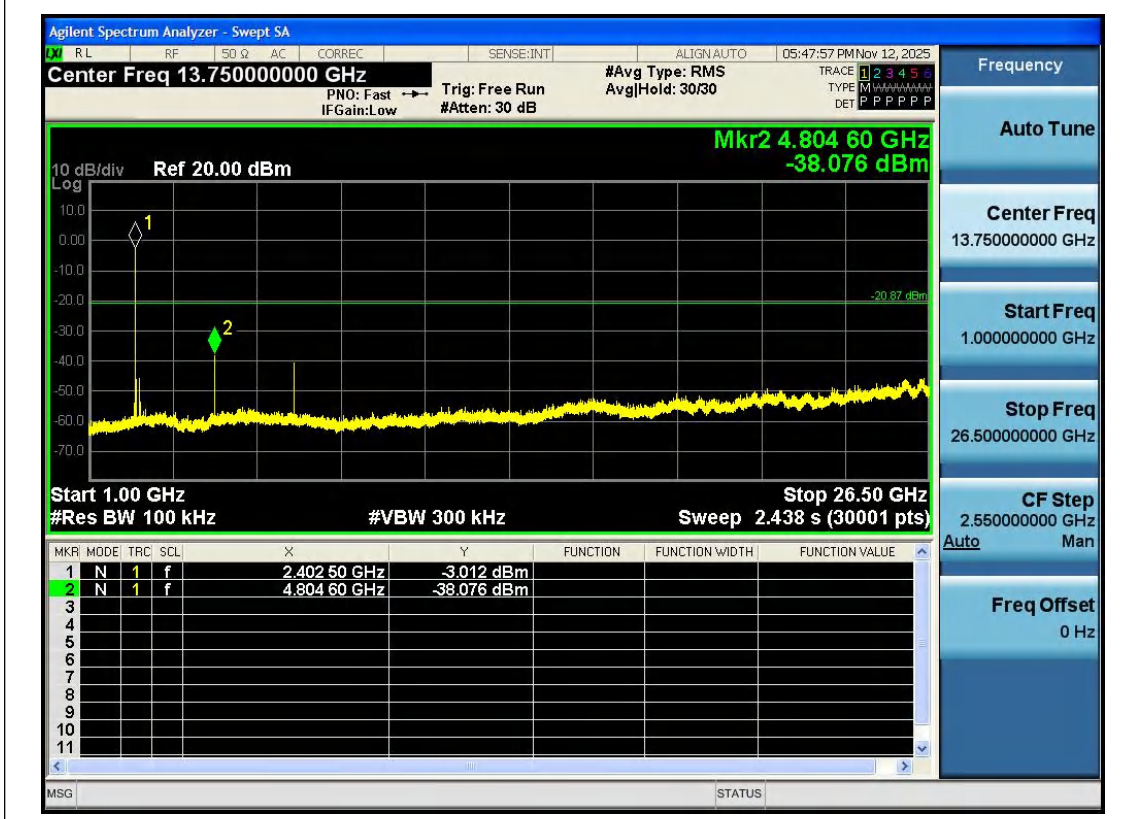
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BLE_2M-Ant1-2402-30~1000-PASS

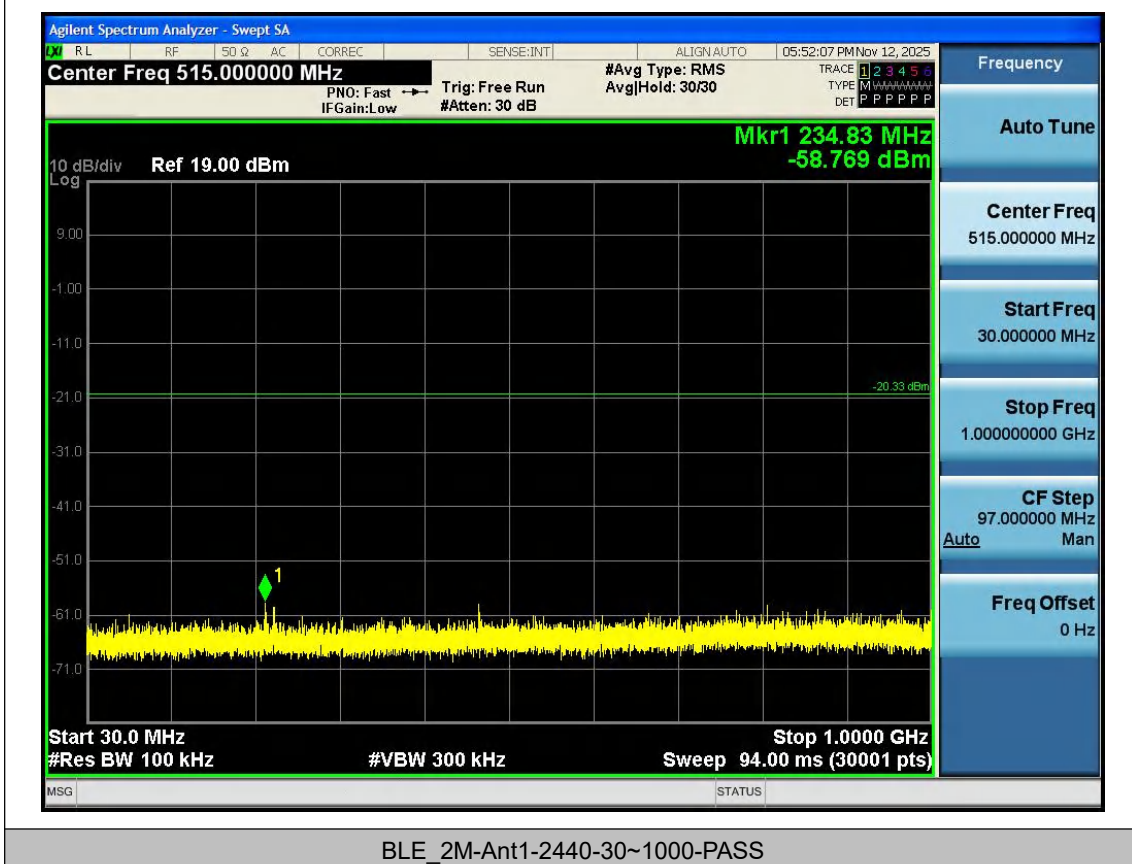


BLE_2M-Ant1-2402-1000~26500-PASS

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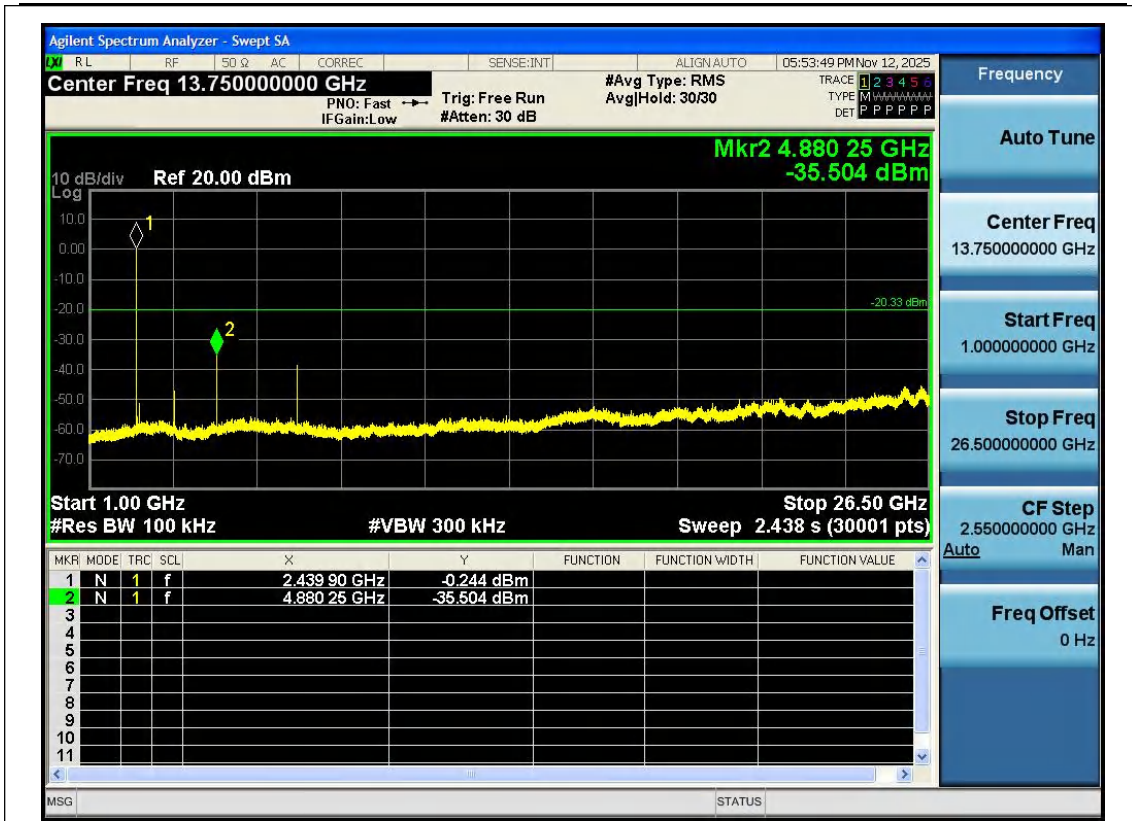
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BLE_2M-Ant1-2440-1000~26500-PASS

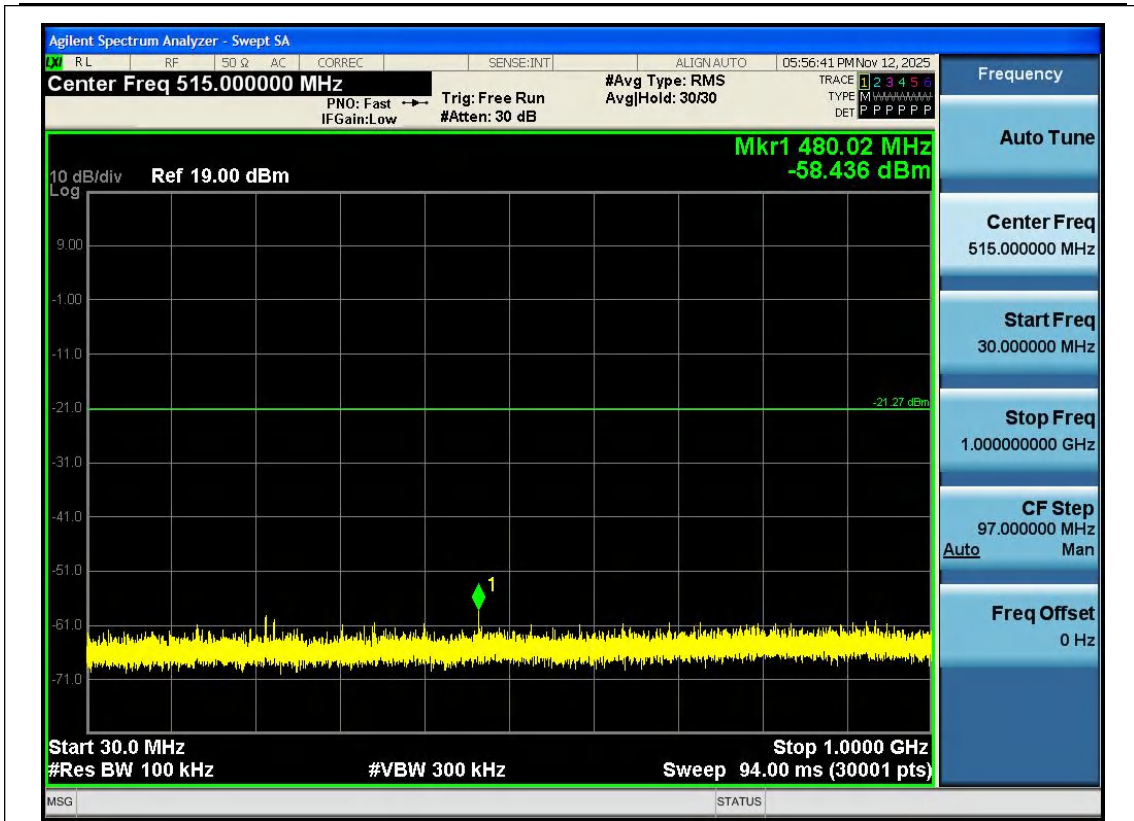


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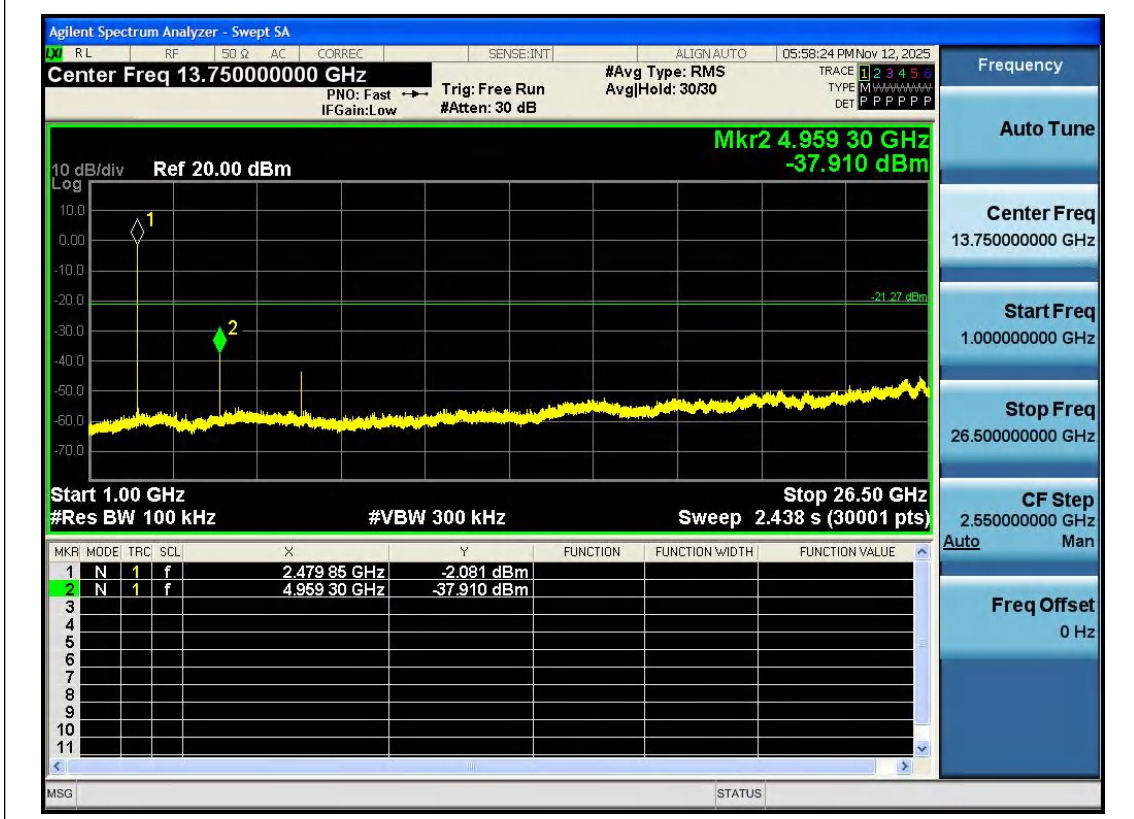
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BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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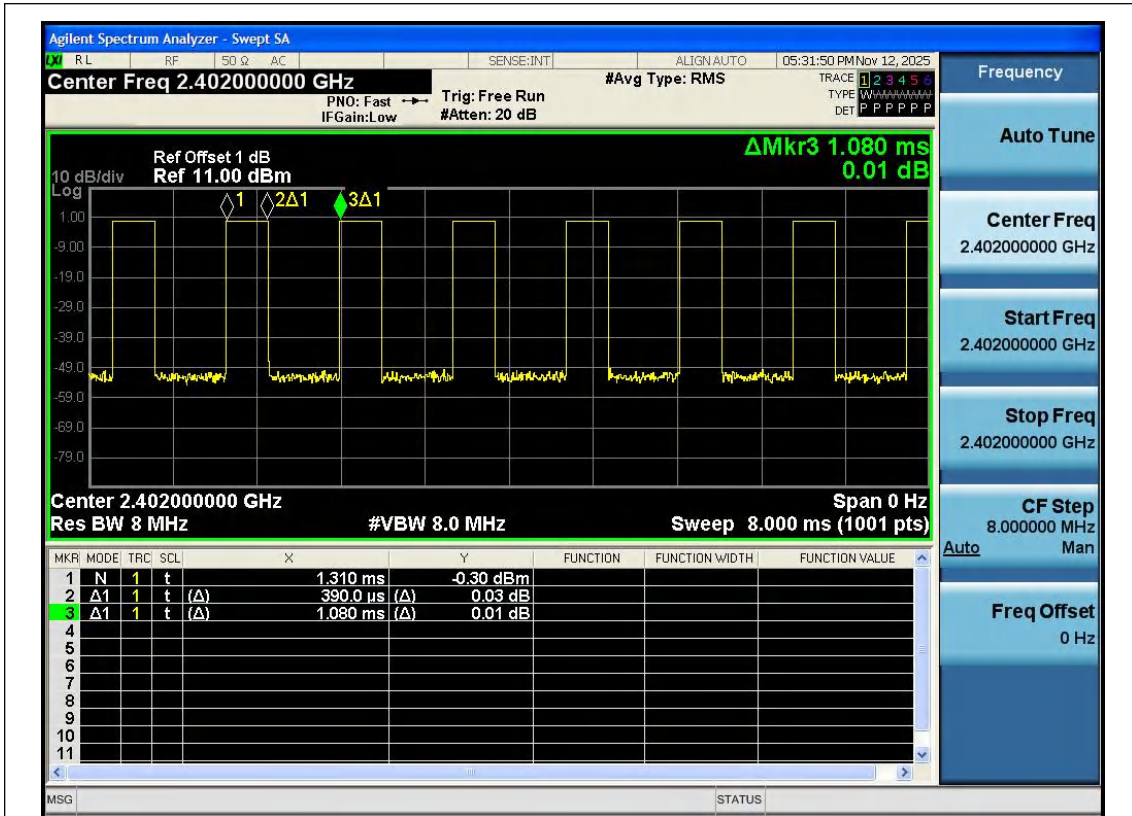
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Appendix G: Duty Cycle

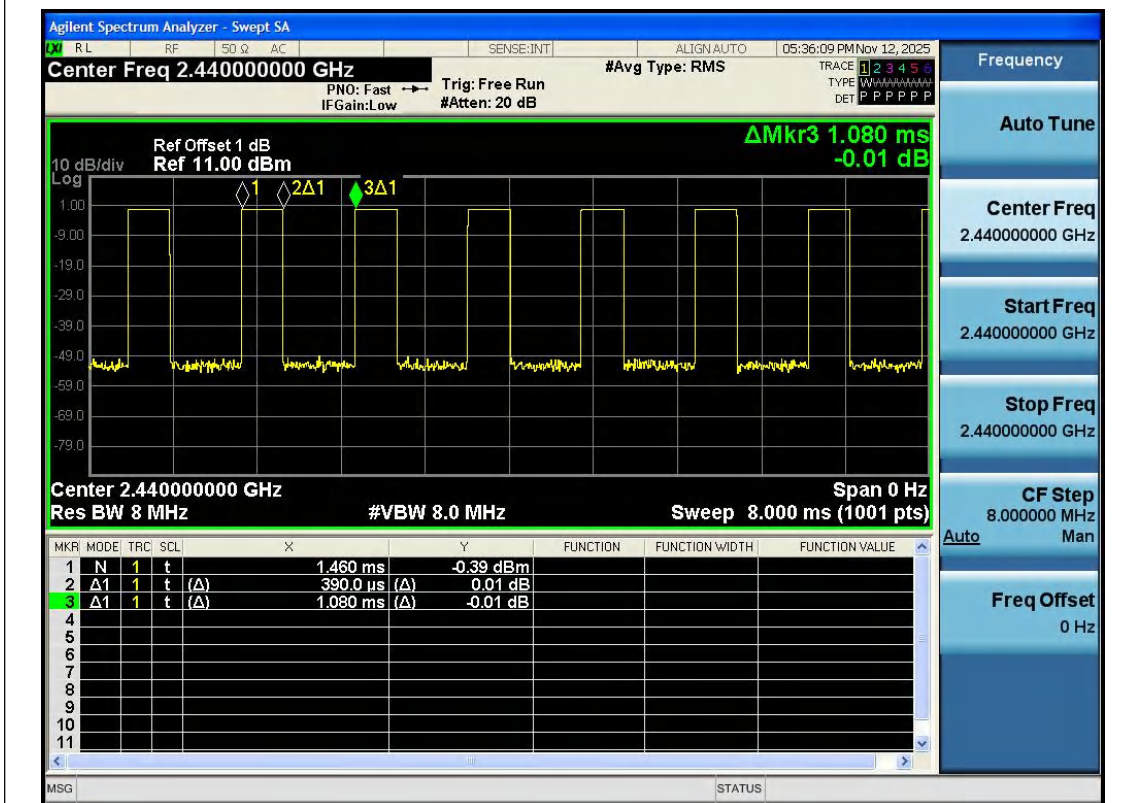
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	1.08	36.11	4.42
BLE_1M	Ant1	2440	0.39	1.08	36.11	4.42
BLE_1M	Ant1	2480	0.39	1.08	36.11	4.42
BLE_2M	Ant1	2402	0.21	0.90	23.33	6.32
BLE_2M	Ant1	2440	0.21	0.90	23.33	6.32
BLE_2M	Ant1	2480	0.21	0.89	23.60	6.27

Test Graphs



NTNV-BLE_1M-Ant1-2402

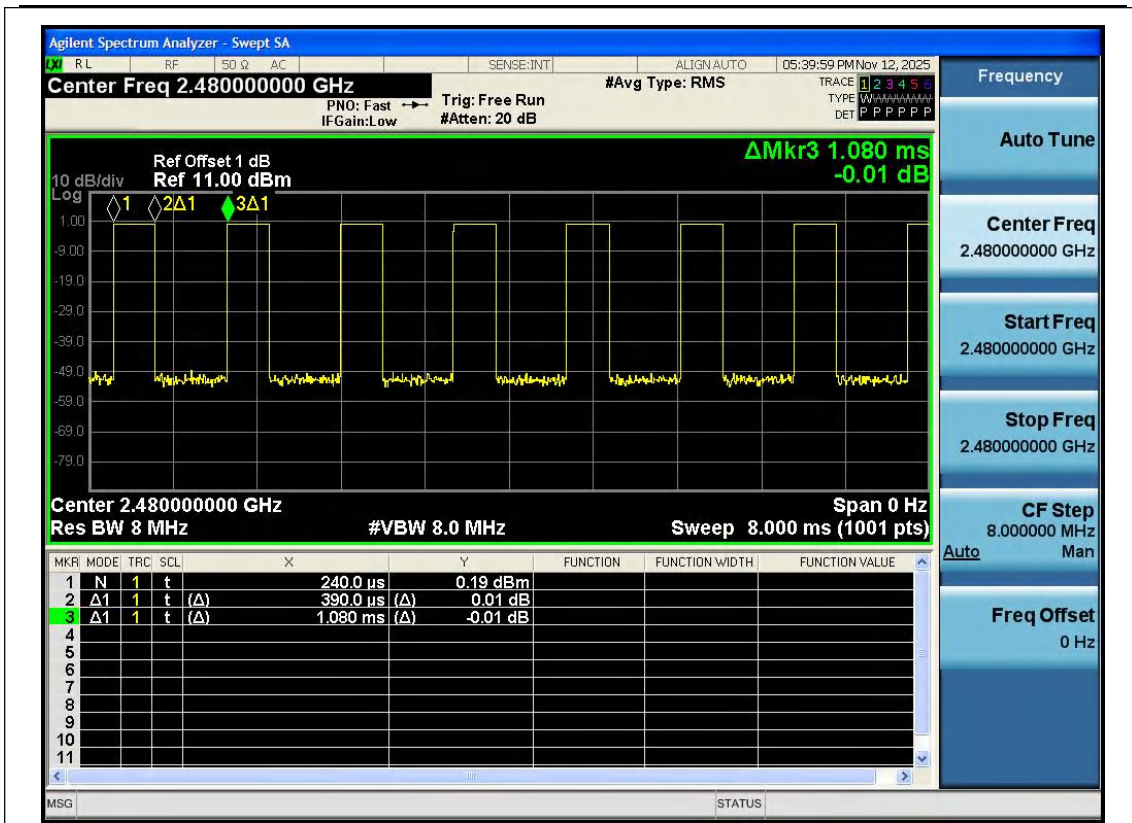


NTNV-BLE_1M-Ant1-2440

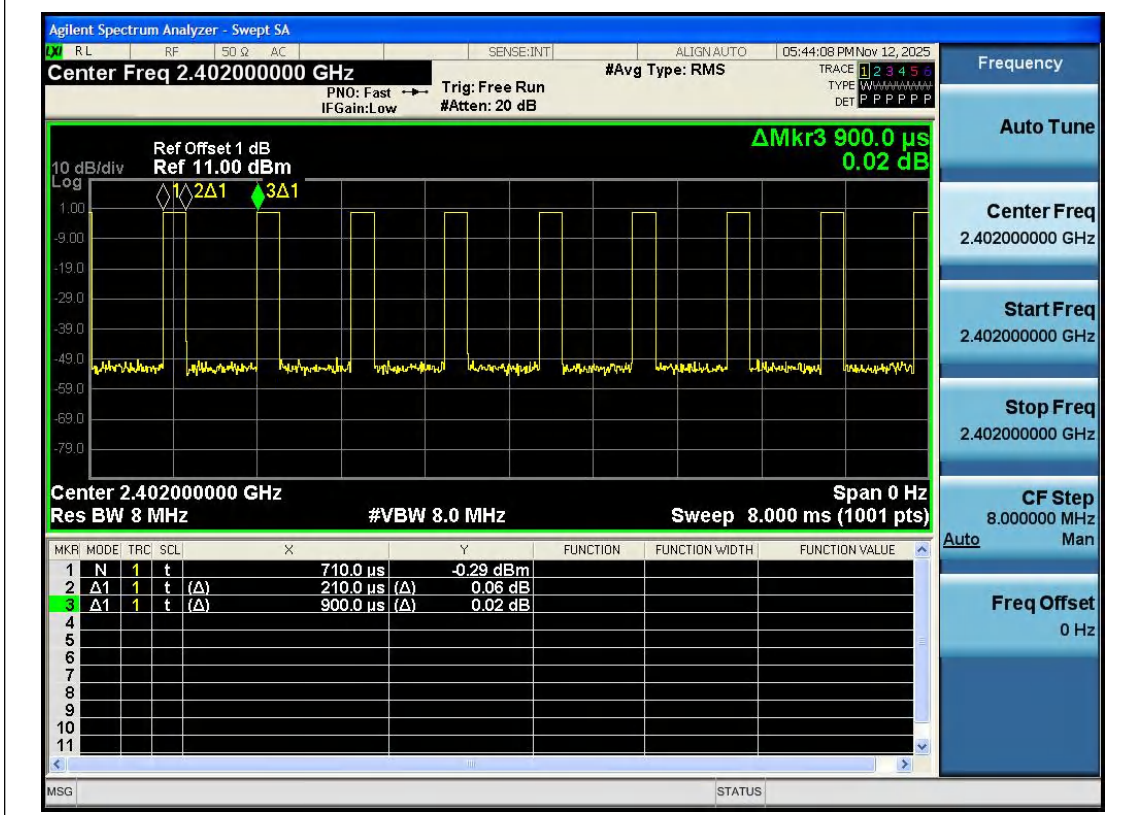
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NTNV-BLE_1M-Ant1-2480

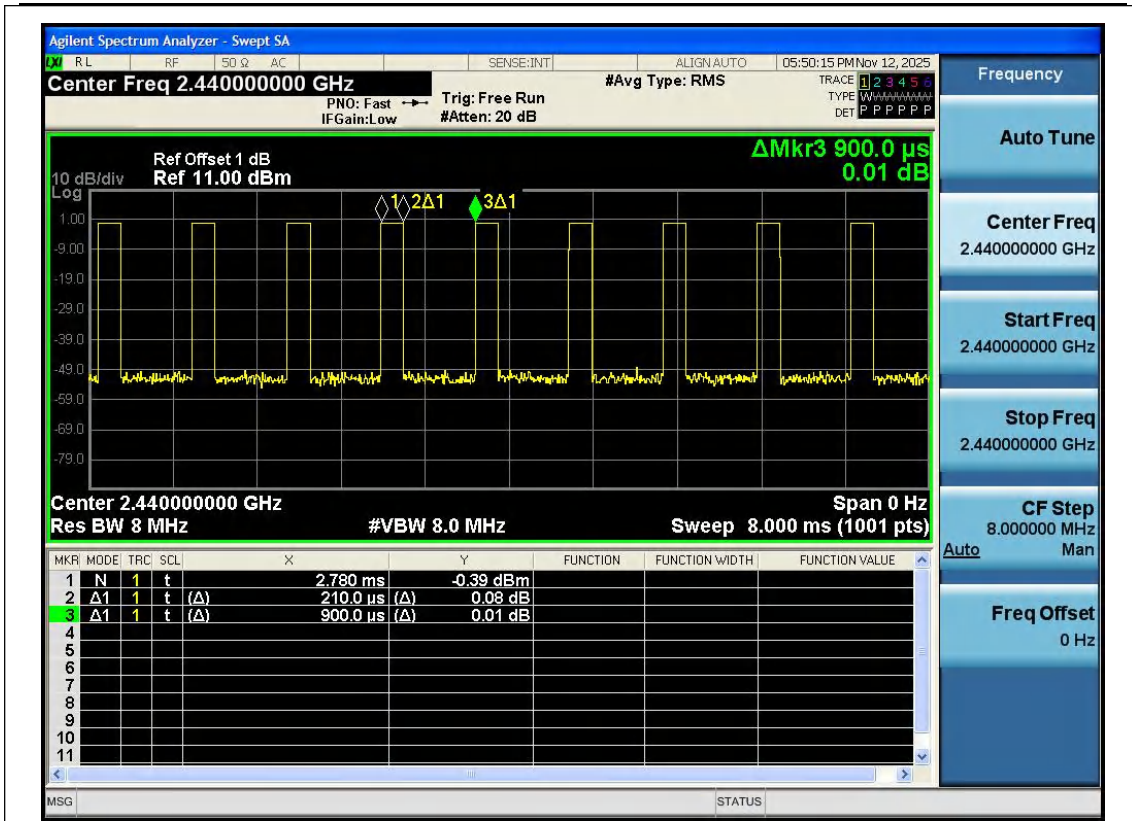


NTNV-BLE_2M-Ant1-2402

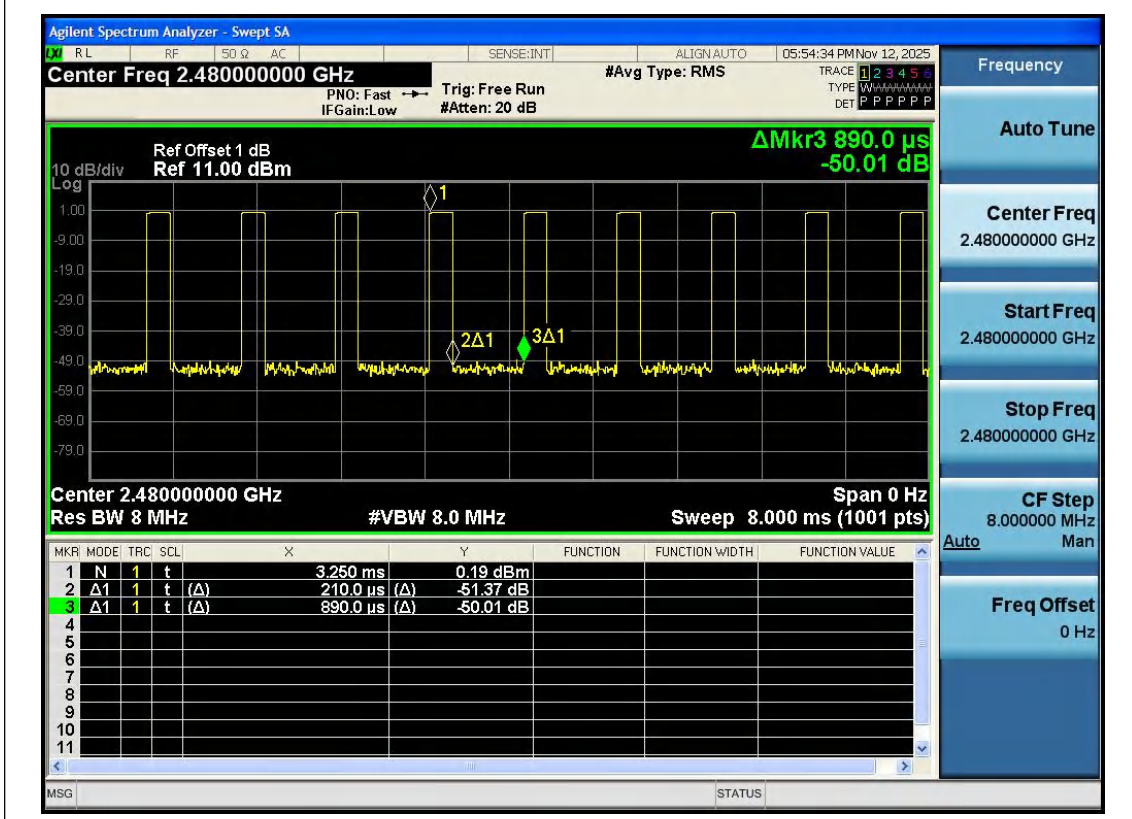
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NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---