

Appendix Test Data

Report No.:	1812C50559612502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-25	Finish Test Date:	2025-10-30
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.6°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	0.636	2401.692	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.692	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.632	2479.696	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.108	2401.452	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.104	2439.460	2440.564	0.5	PASS
BLE_2M	Ant1	2480	1.108	2479.448	2480.556	0.5	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-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	0.99558	2401.5185	2402.5141	---	---
BLE_1M	Ant1	2440	0.99751	2439.5193	2440.5169	---	---
BLE_1M	Ant1	2480	0.99585	2479.5193	2480.5151	---	---
BLE_2M	Ant1	2402	1.9394	2401.0502	2402.9896	---	---
BLE_2M	Ant1	2440	1.9265	2439.0587	2440.9852	---	---
BLE_2M	Ant1	2480	1.9387	2479.0542	2480.9929	---	---

Test Graphs



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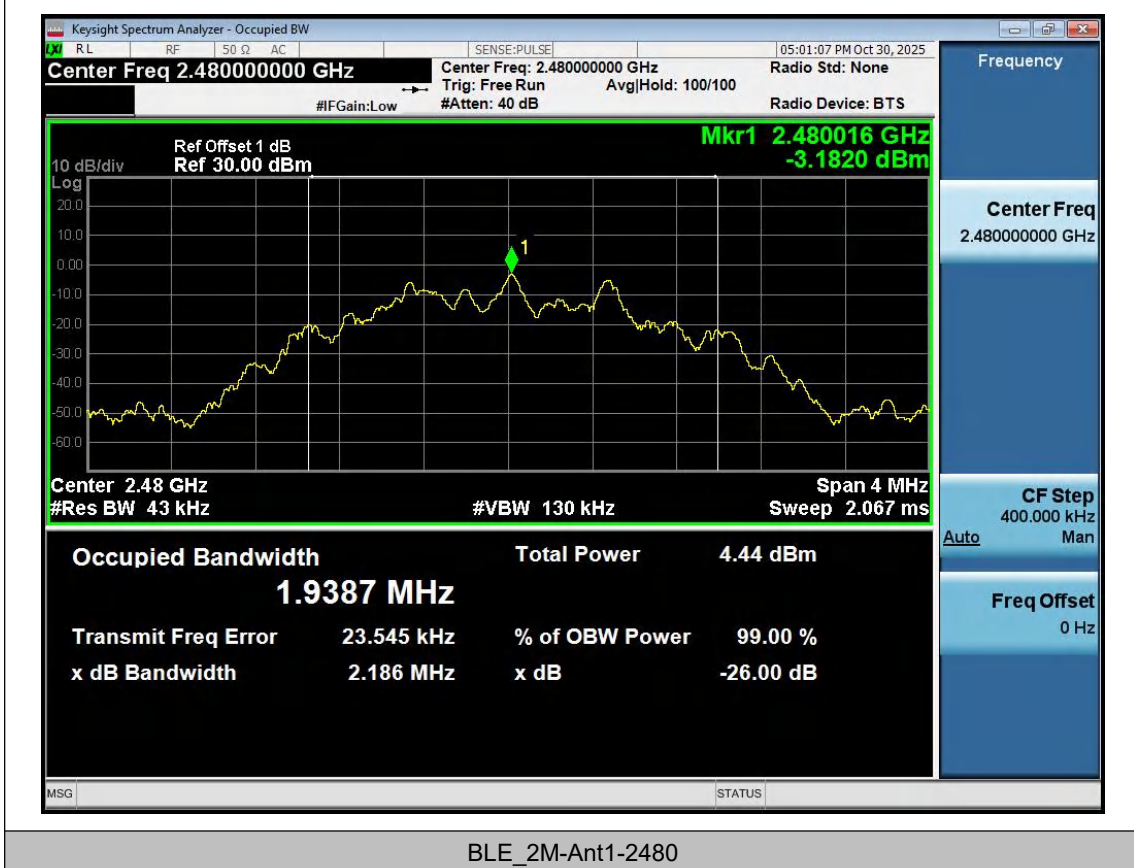
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BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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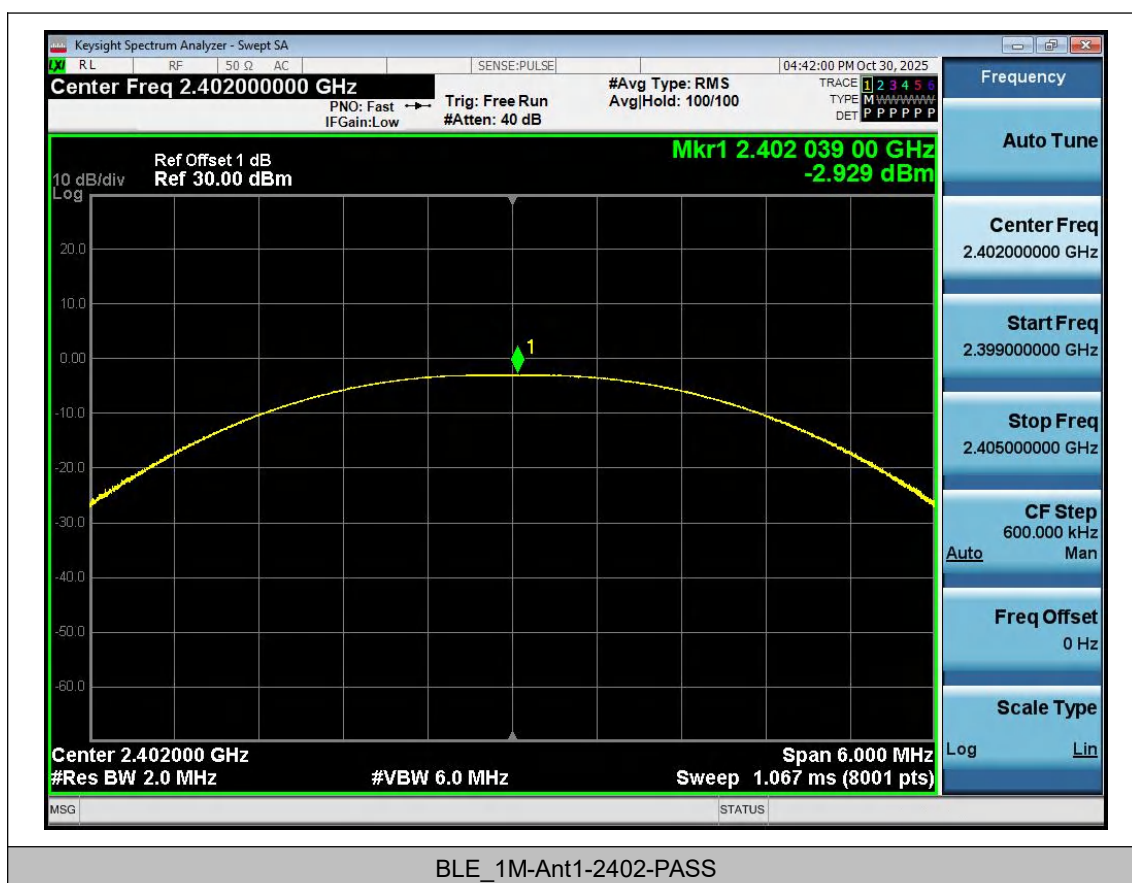
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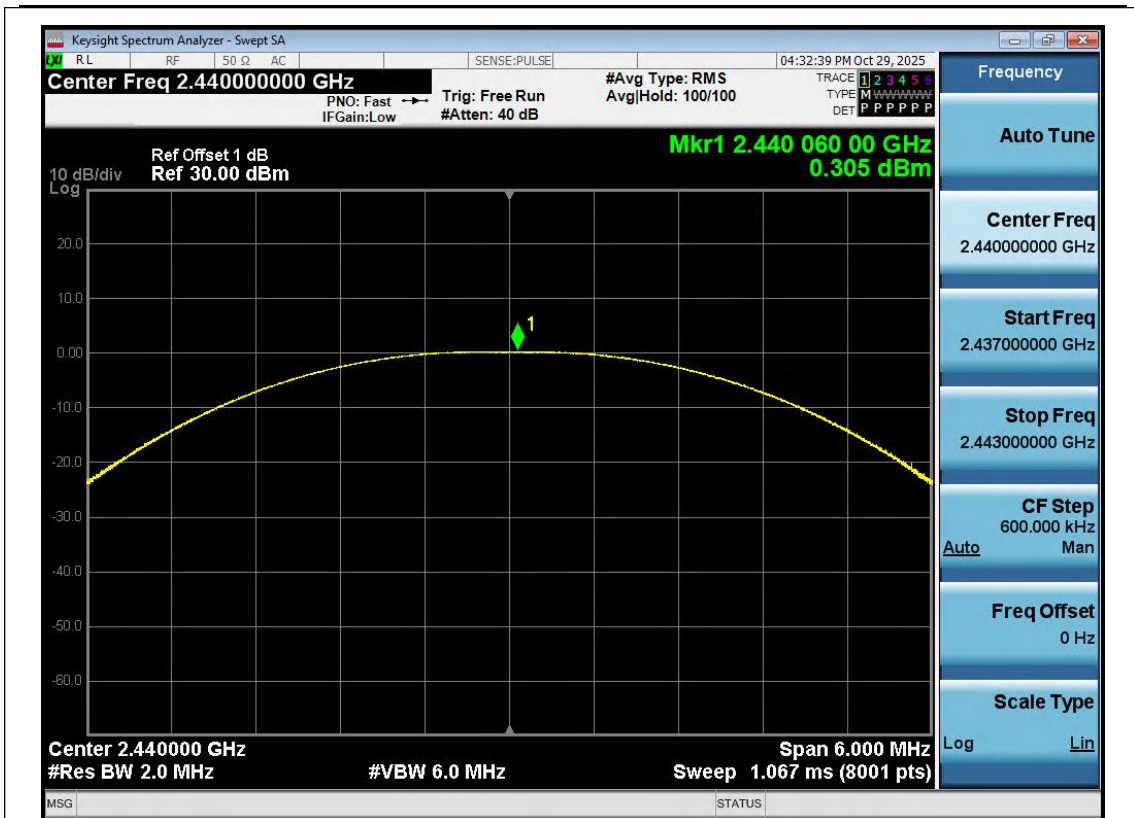
Appendix C: Maximum conducted output power

Test Result Peak

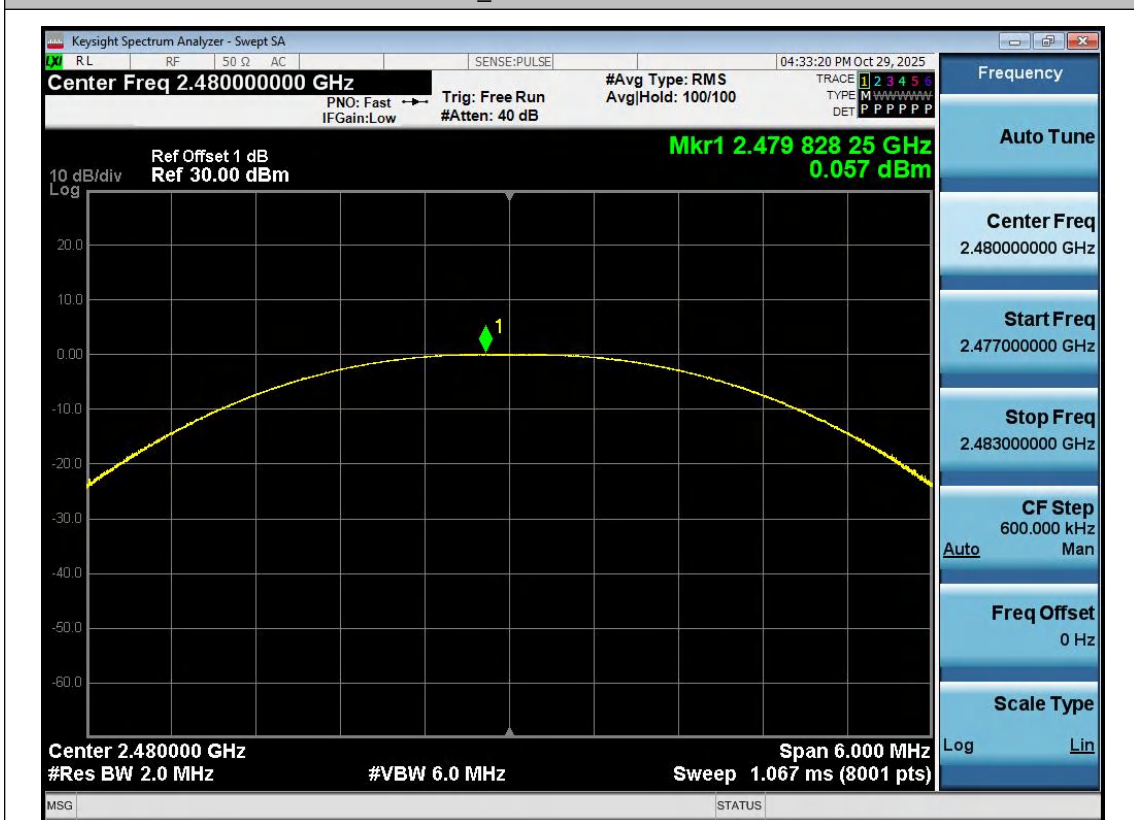
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.93	≤30	PASS
BLE_1M	Ant1	2440	0.31	≤30	PASS
BLE_1M	Ant1	2480	0.06	≤30	PASS
BLE_2M	Ant1	2402	-0.04	≤30	PASS
BLE_2M	Ant1	2440	0.26	≤30	PASS
BLE_2M	Ant1	2480	0.19	≤30	PASS

Test Graphs Peak





BLE_1M-Ant1-2440-PASS

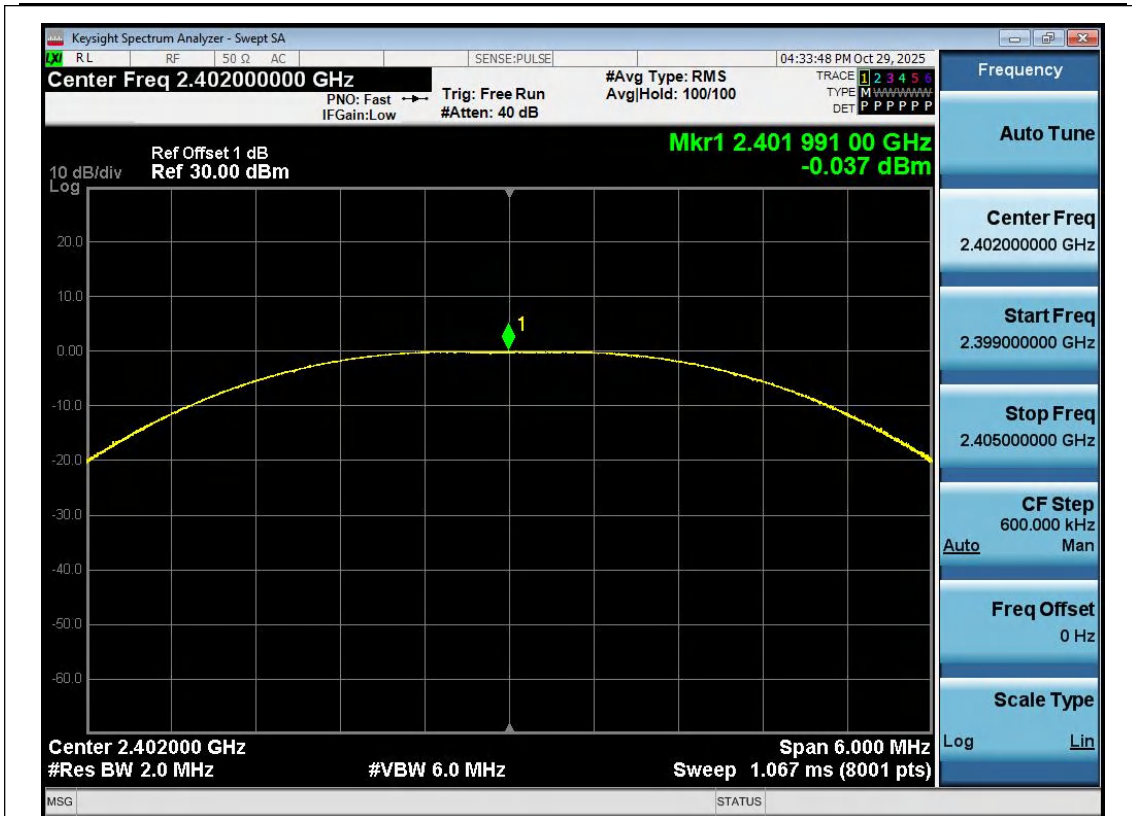


BLE_1M-Ant1-2480-PASS

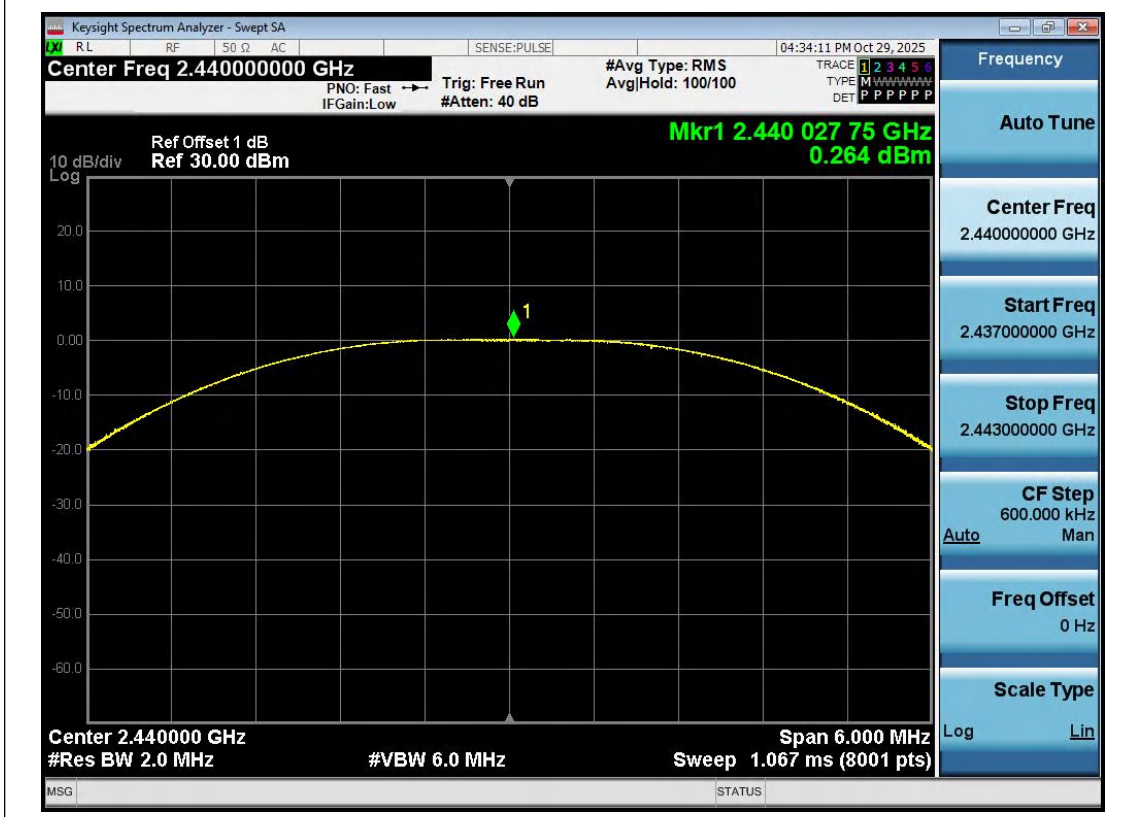
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BLE_2M-Ant1-2402-PASS

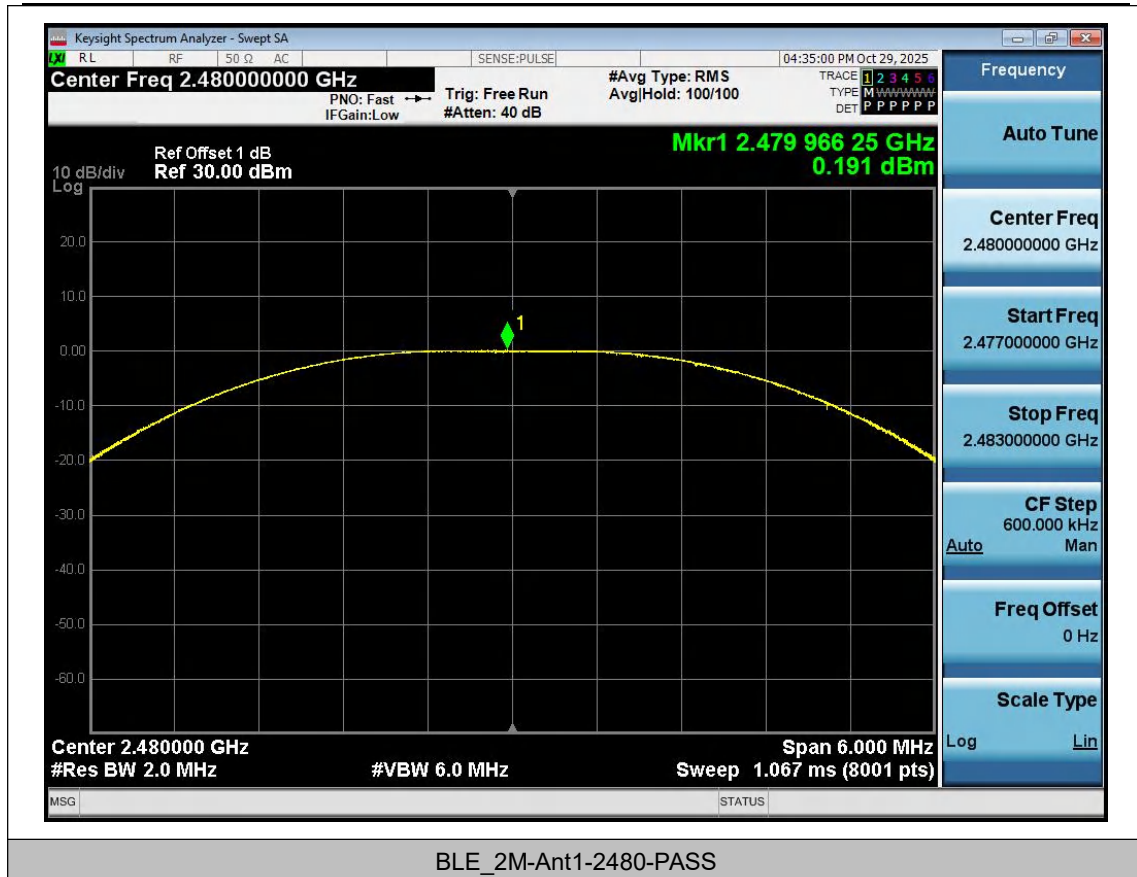


BLE_2M-Ant1-2440-PASS

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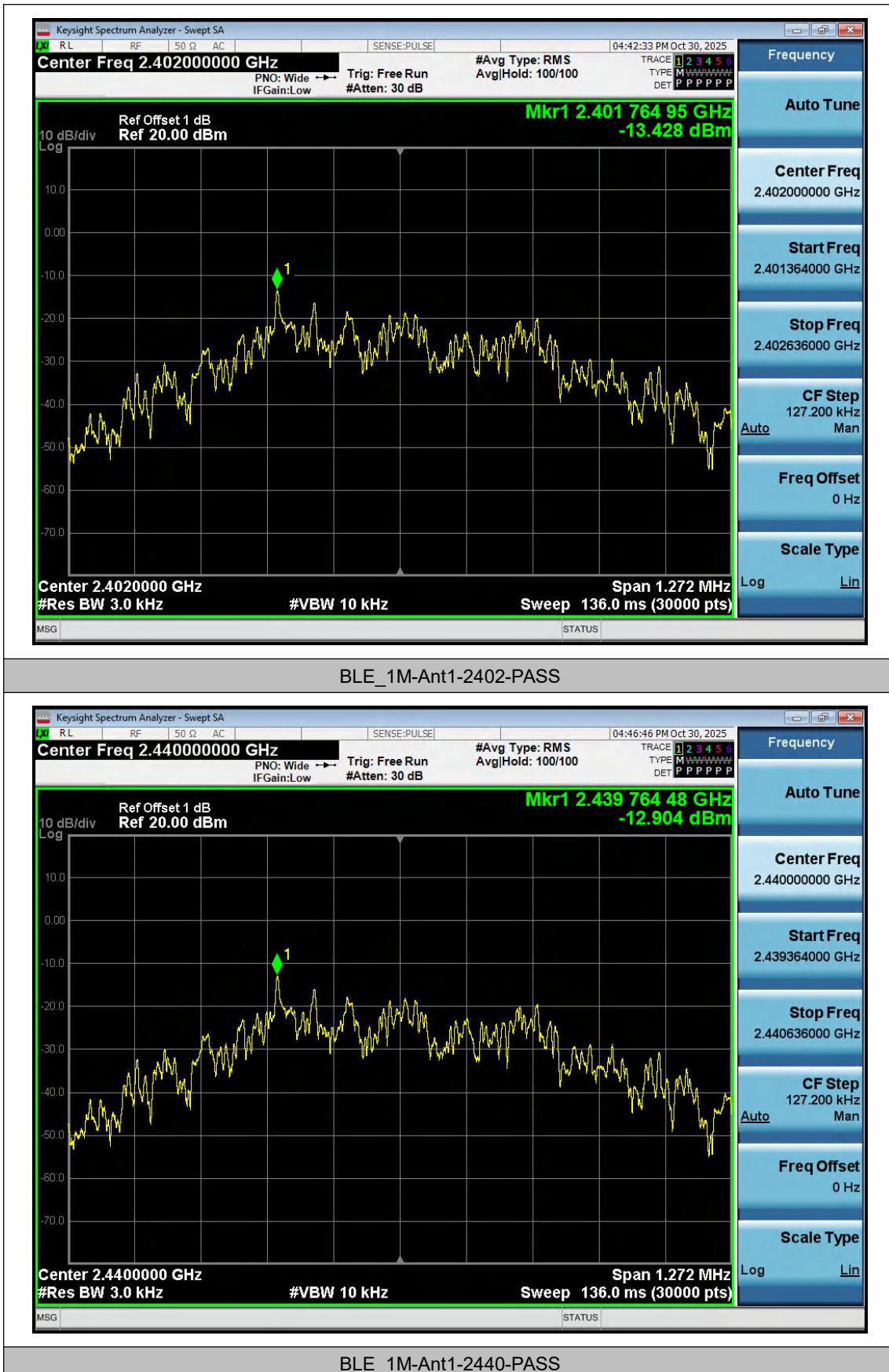
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.43	≤8.00	PASS
BLE_1M	Ant1	2440	-12.90	≤8.00	PASS
BLE_1M	Ant1	2480	-13.02	≤8.00	PASS
BLE_2M	Ant1	2402	-18.68	≤8.00	PASS
BLE_2M	Ant1	2440	-18.21	≤8.00	PASS
BLE_2M	Ant1	2480	-18.29	≤8.00	PASS

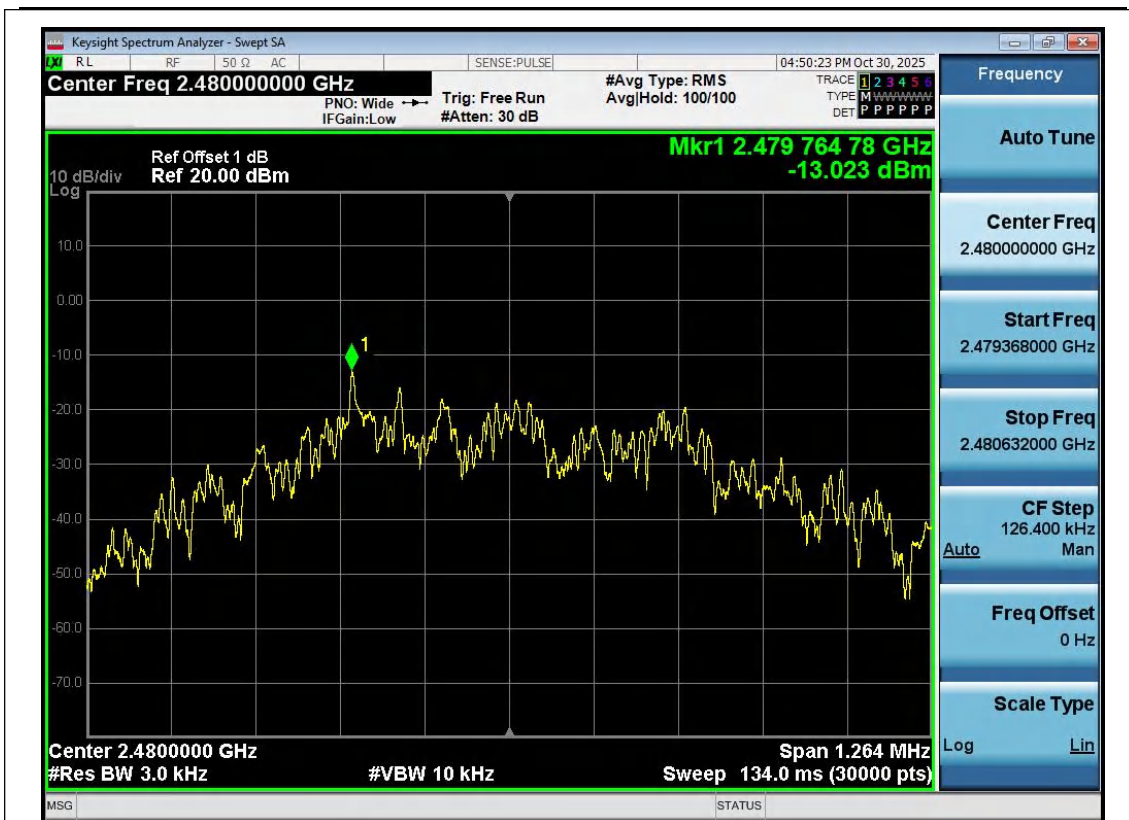
Test Graphs



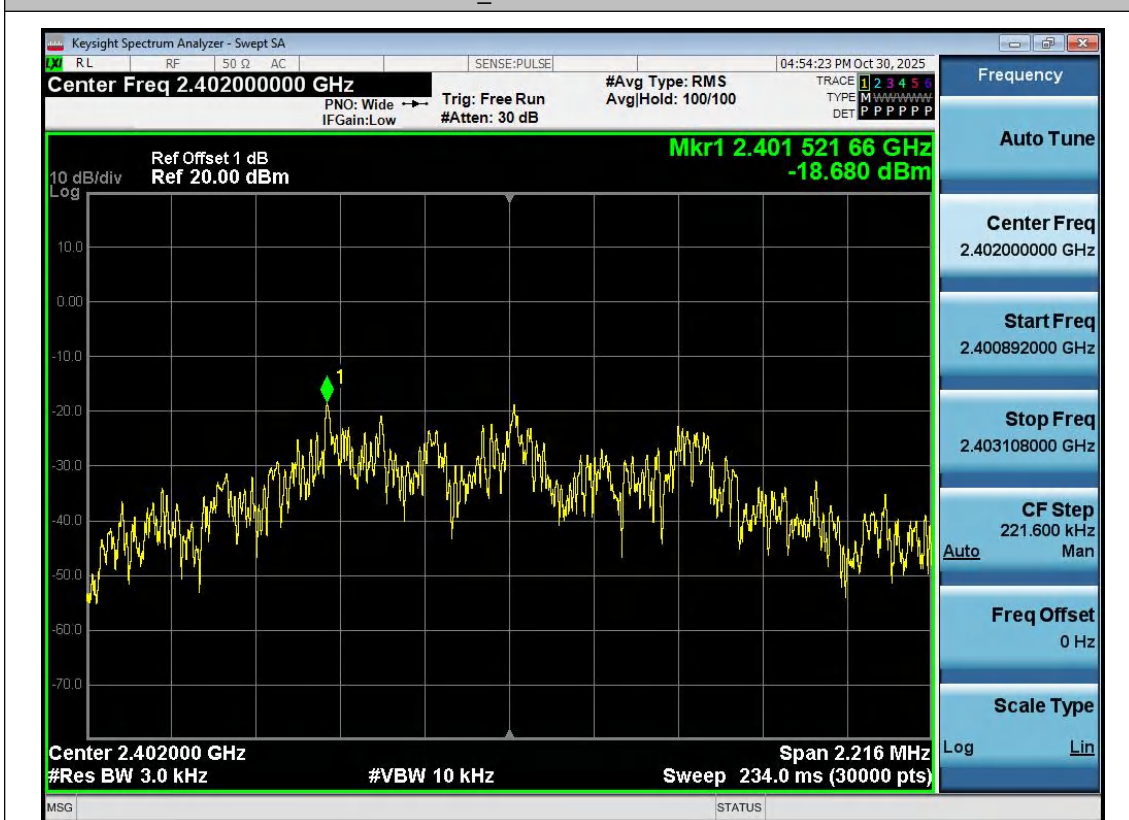
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BLE_1M-Ant1-2480-PASS

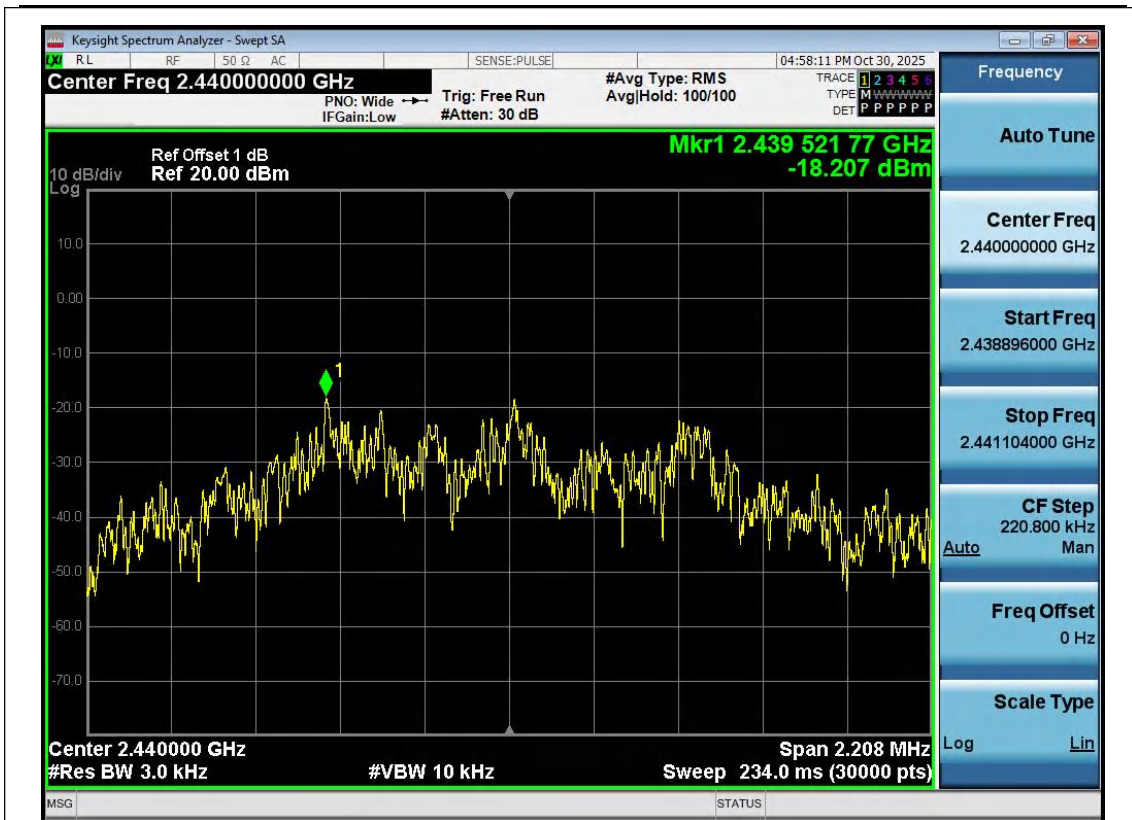


BLE_2M-Ant1-2402-PASS

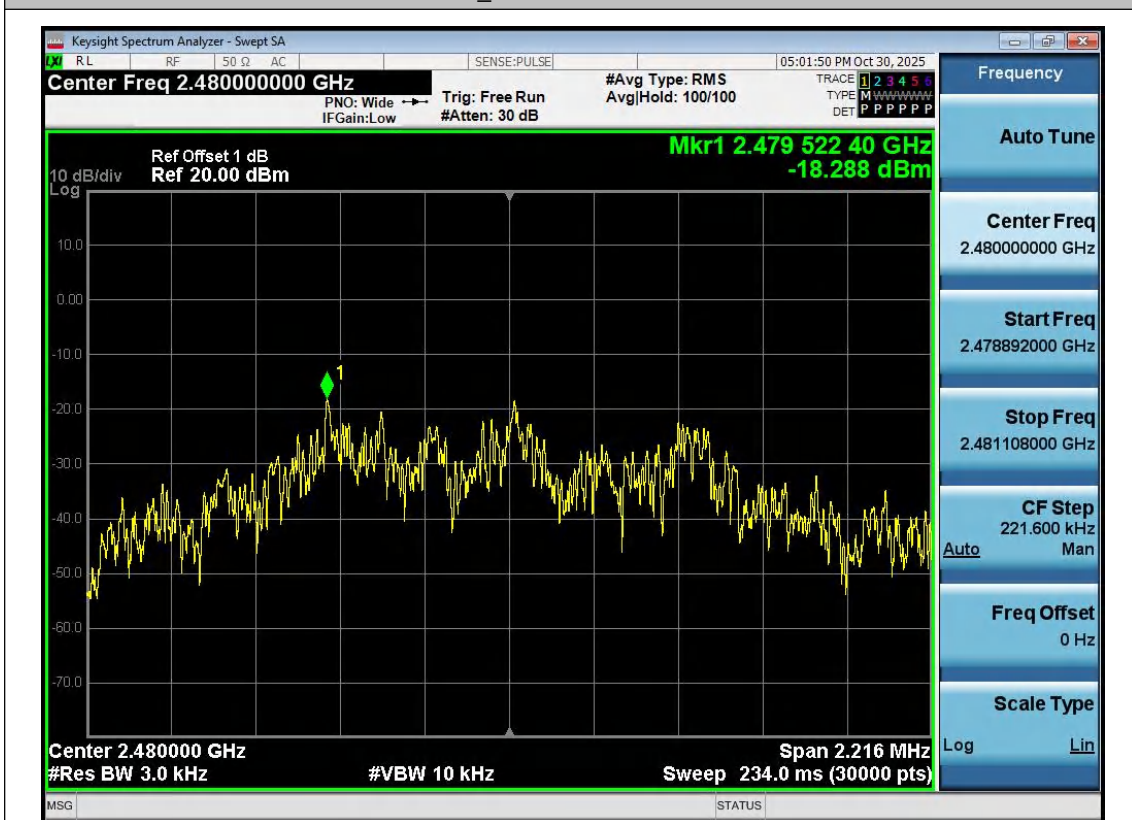
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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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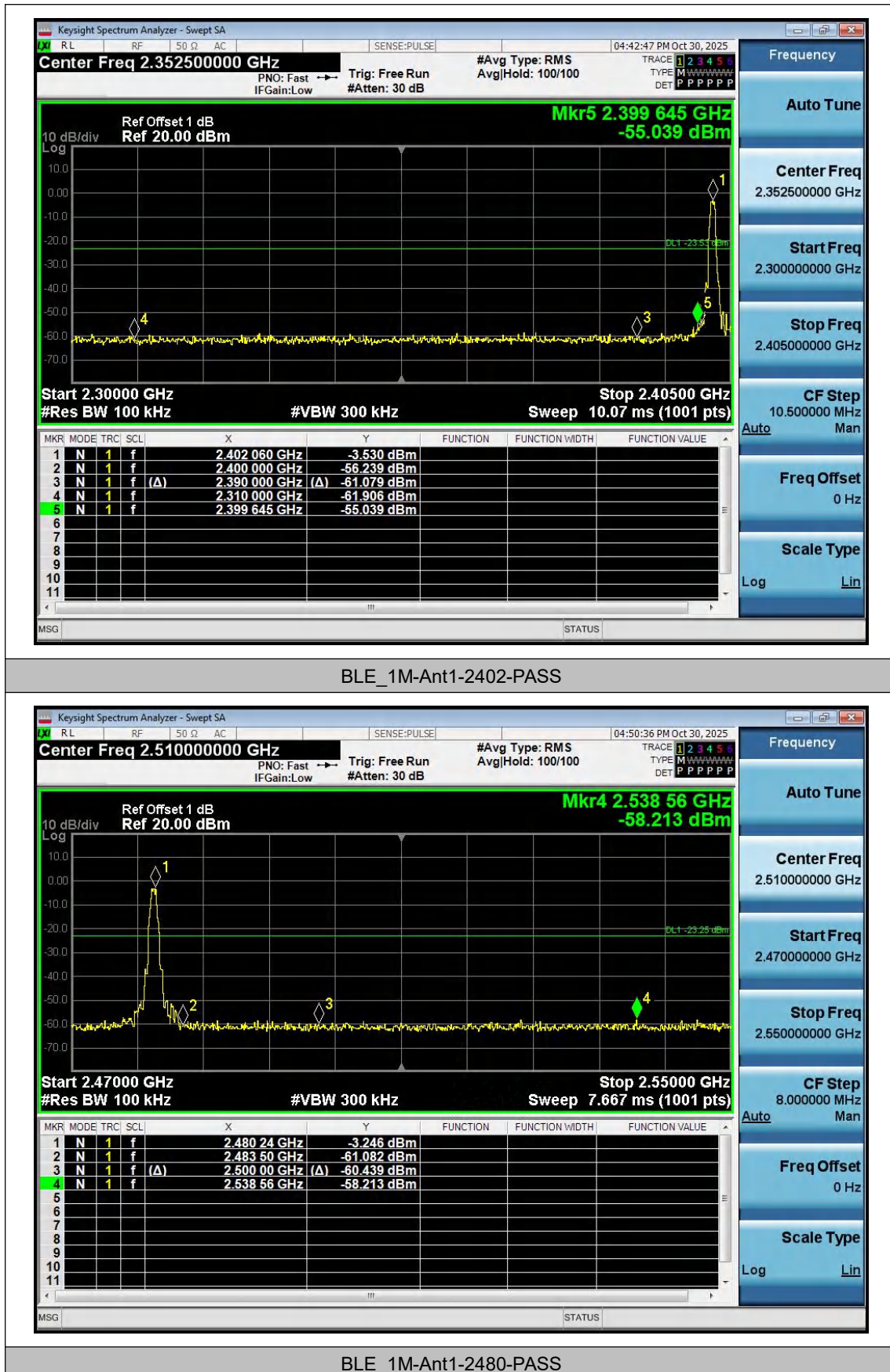
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.53	-55.04	≤ -23.53	PASS
BLE_1M	Ant1	High	2480	-3.25	-58.21	≤ -23.25	PASS
BLE_2M	Ant1	Low	2402	-3.69	-46.24	≤ -23.69	PASS
BLE_2M	Ant1	High	2480	-3.12	-57.88	≤ -23.12	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.

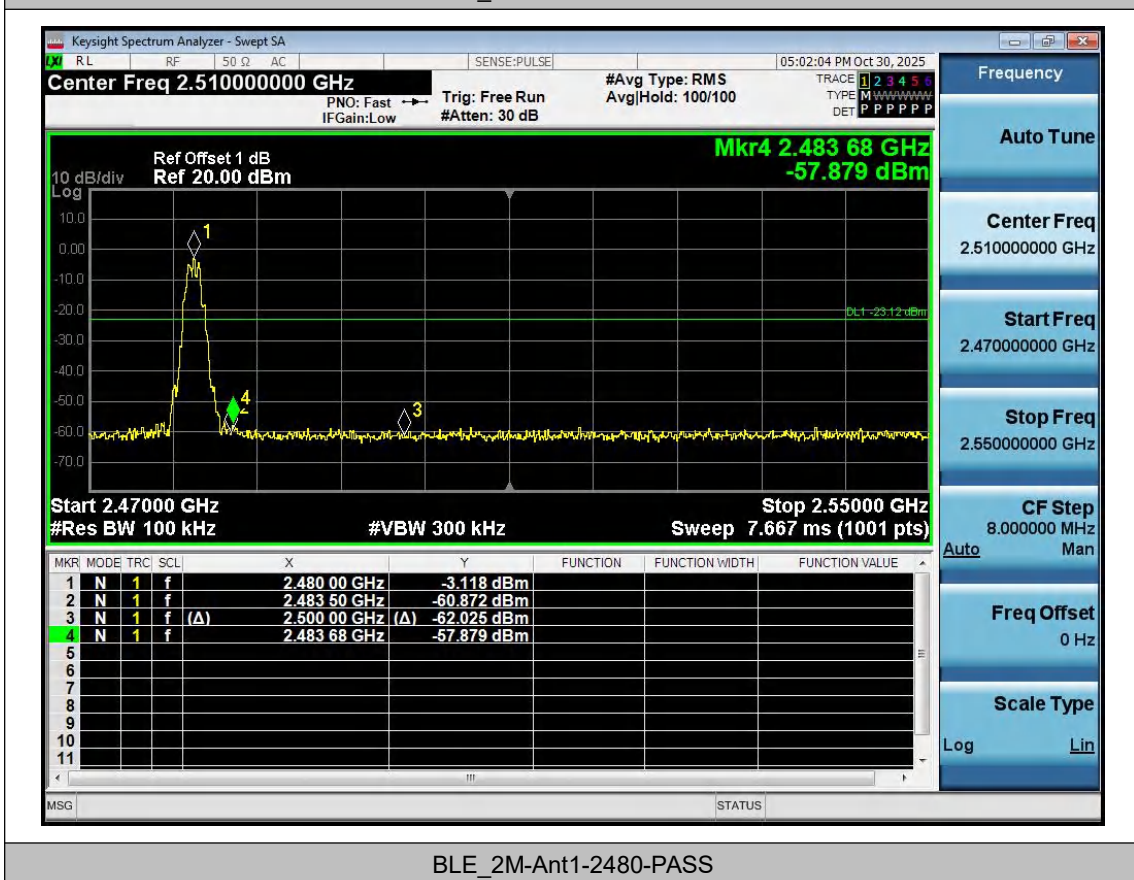
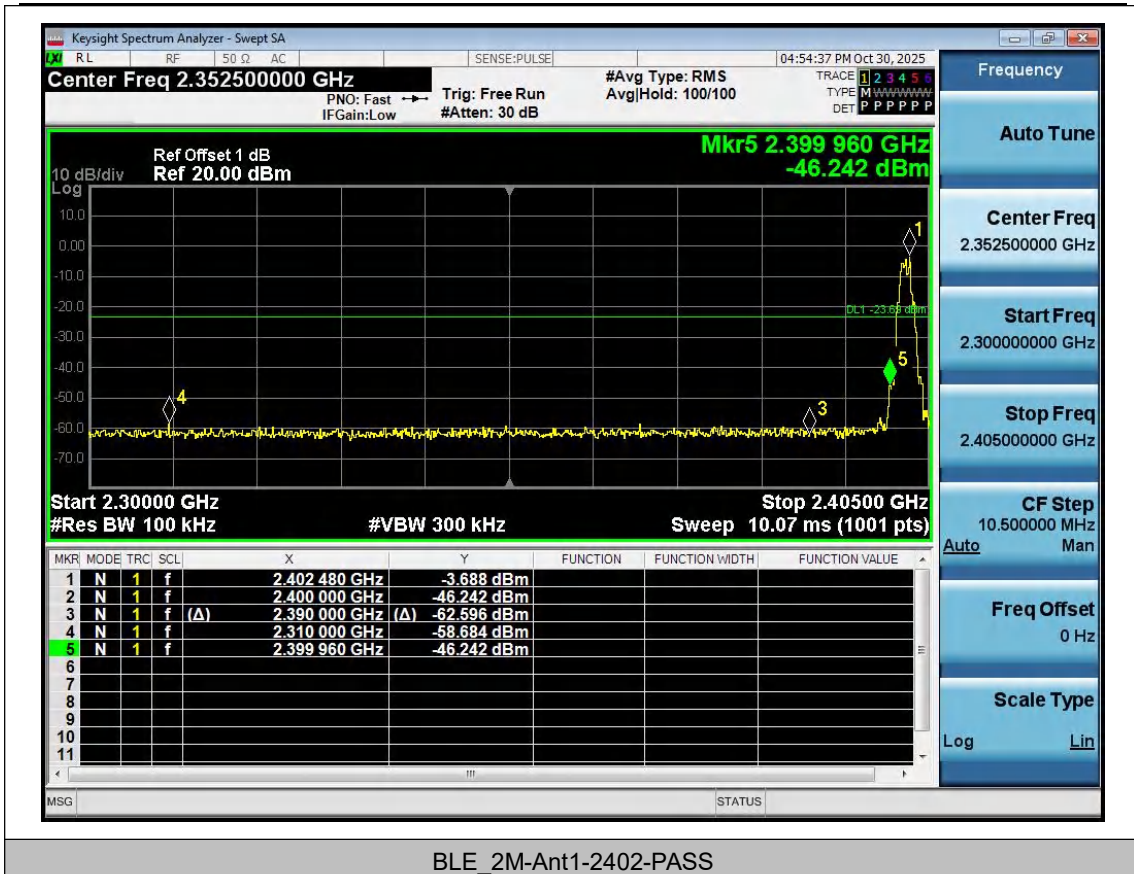
Test Graphs



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Appendix F: Conducted Spurious Emission

Test Result

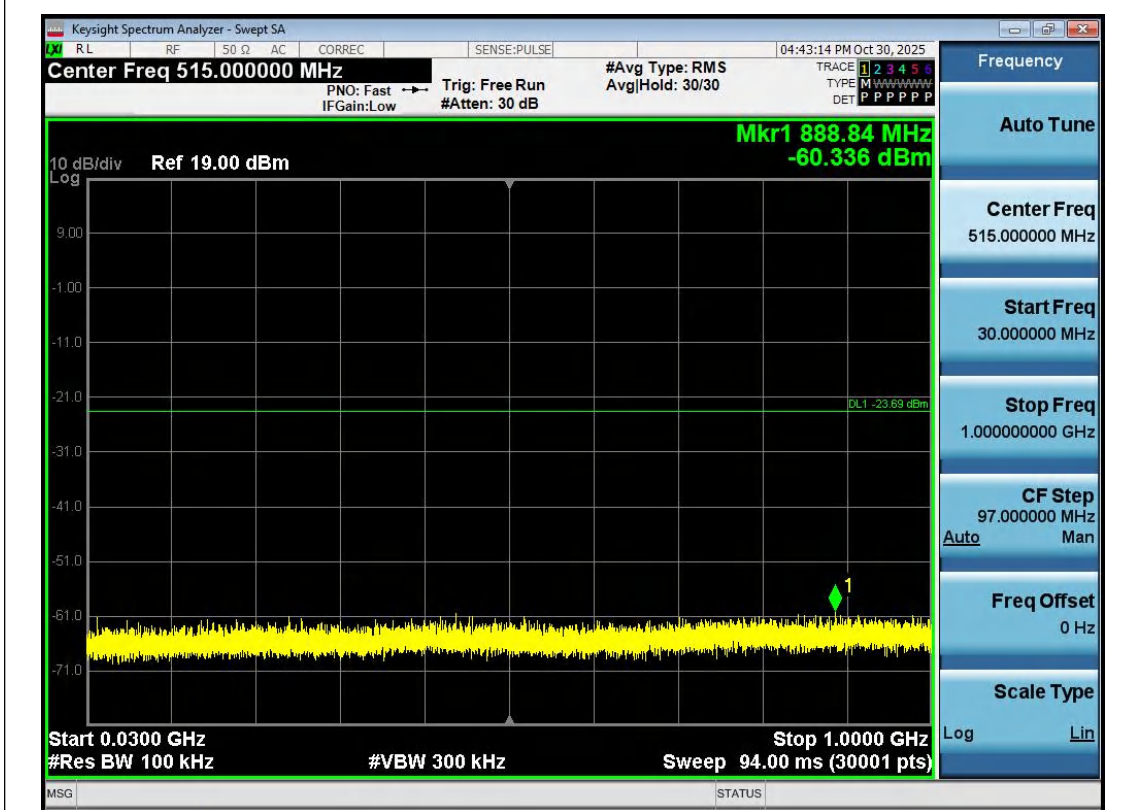
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.69	-3.69	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.69	-60.34	≤-23.69	PASS
BLE_1M	Ant1	2402	1000~26500	-3.69	-45.32	≤-23.69	PASS
BLE_1M	Ant1	2440	0~Reference	-3.16	-3.16	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.16	-59.53	≤-23.16	PASS
BLE_1M	Ant1	2440	1000~26500	-3.16	-44.97	≤-23.16	PASS
BLE_1M	Ant1	2480	0~Reference	-3.32	-3.32	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.32	-59.98	≤-23.32	PASS
BLE_1M	Ant1	2480	1000~26500	-3.32	-44.07	≤-23.32	PASS
BLE_2M	Ant1	2402	0~Reference	-3.60	-3.60	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.60	-58.46	≤-23.6	PASS
BLE_2M	Ant1	2402	1000~26500	-3.60	-45.54	≤-23.6	PASS
BLE_2M	Ant1	2440	0~Reference	-3.16	-3.16	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.16	-58.28	≤-23.16	PASS
BLE_2M	Ant1	2440	1000~26500	-3.16	-44.94	≤-23.16	PASS
BLE_2M	Ant1	2480	0~Reference	-3.23	-3.23	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.23	-59.56	≤-23.23	PASS
BLE_2M	Ant1	2480	1000~26500	-3.23	-44.96	≤-23.23	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



BLE_1M-Ant1-2402-0~Reference-PASS

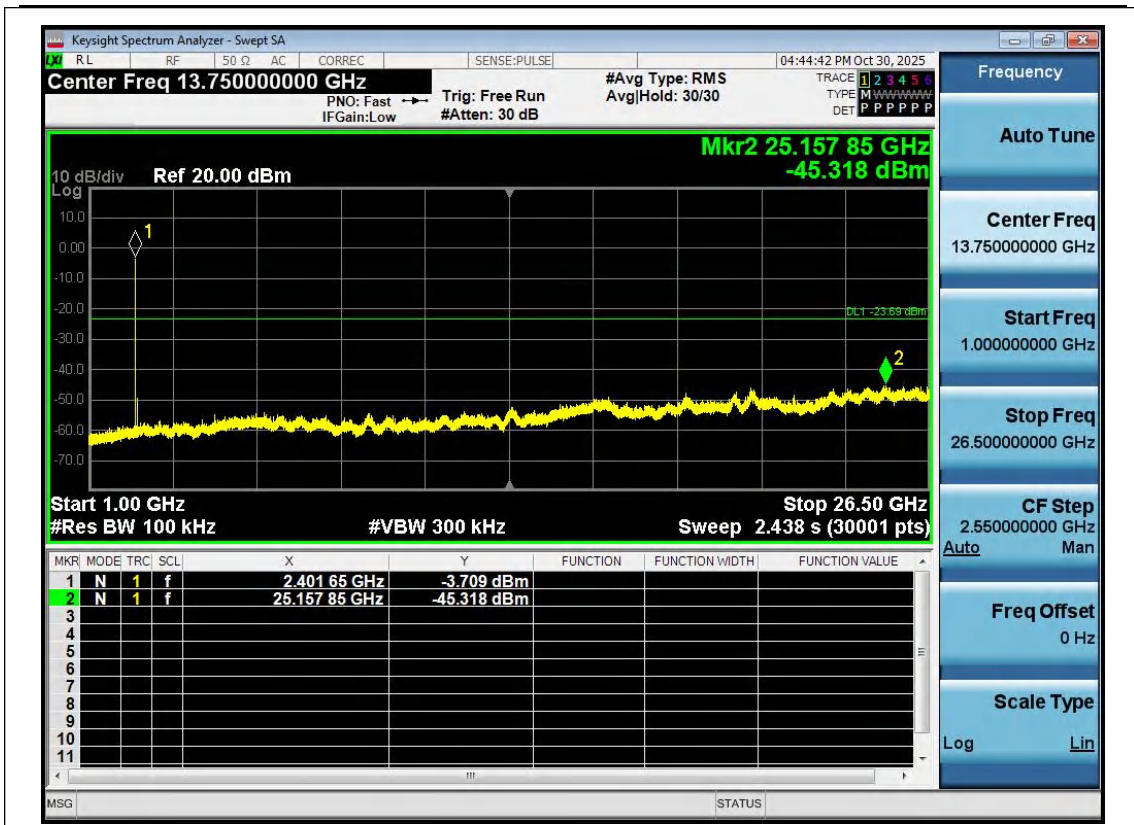


BLE_1M-Ant1-2402-30~1000-PASS

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BLE_1M-Ant1-2402-1000~26500-PASS

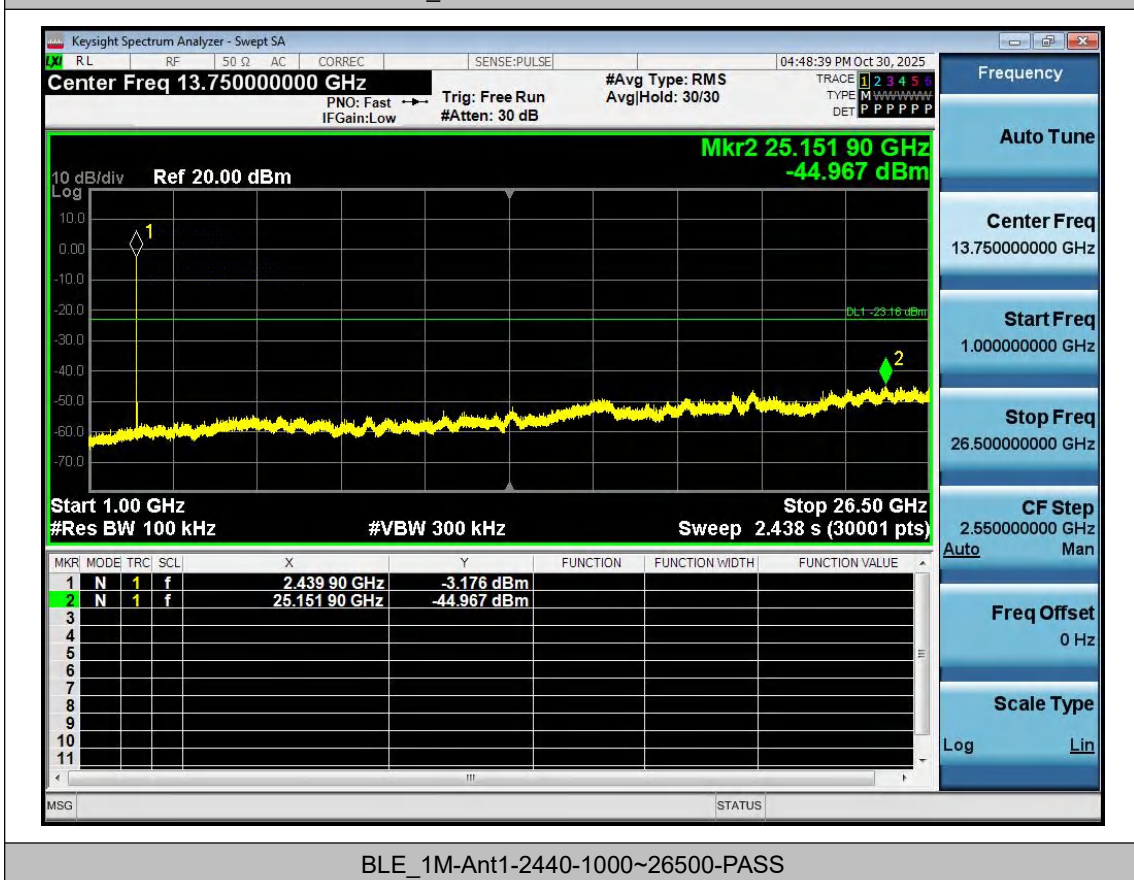
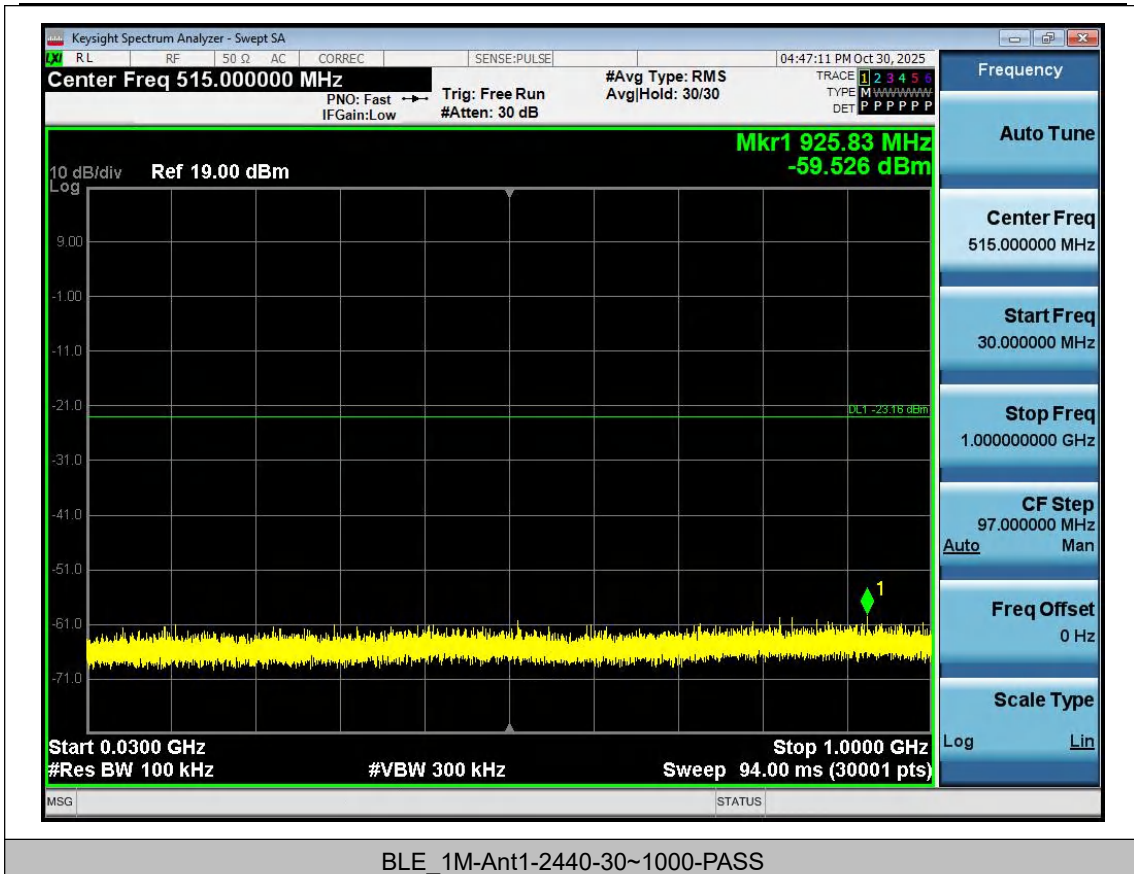


BLE_1M-Ant1-2440-0~Reference-PASS

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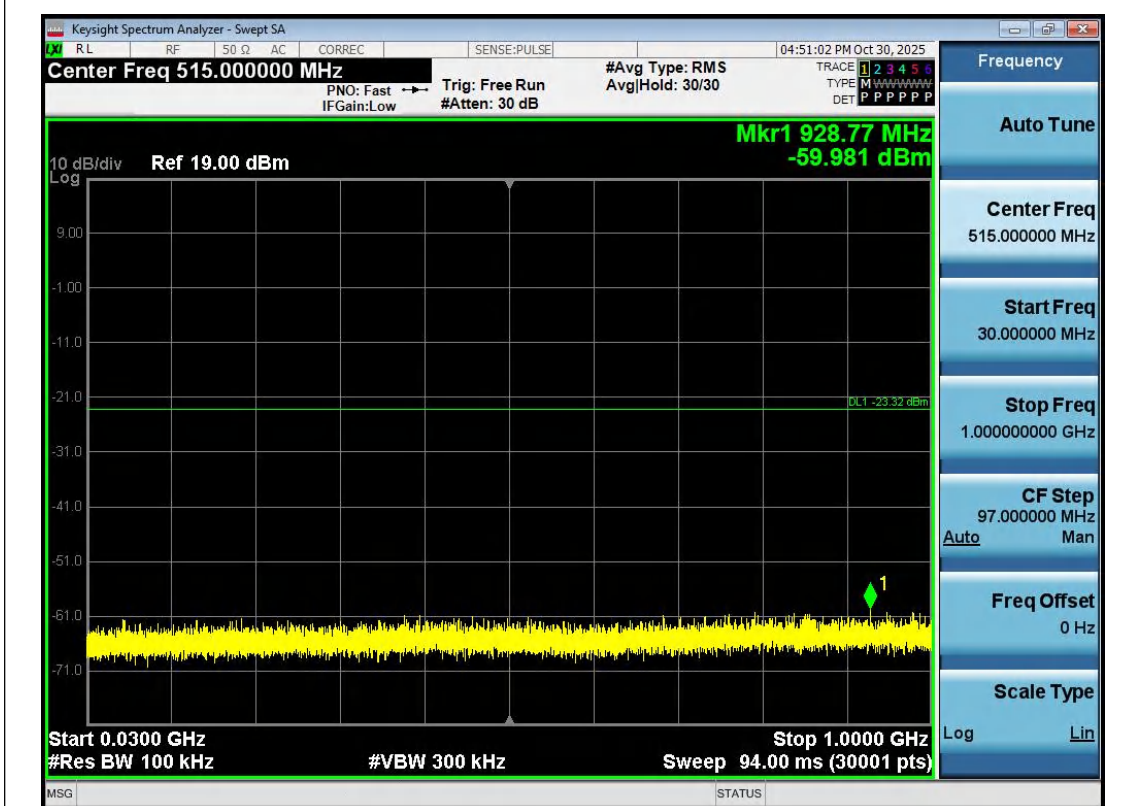
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BLE_1M-Ant1-2480-0~Reference-PASS

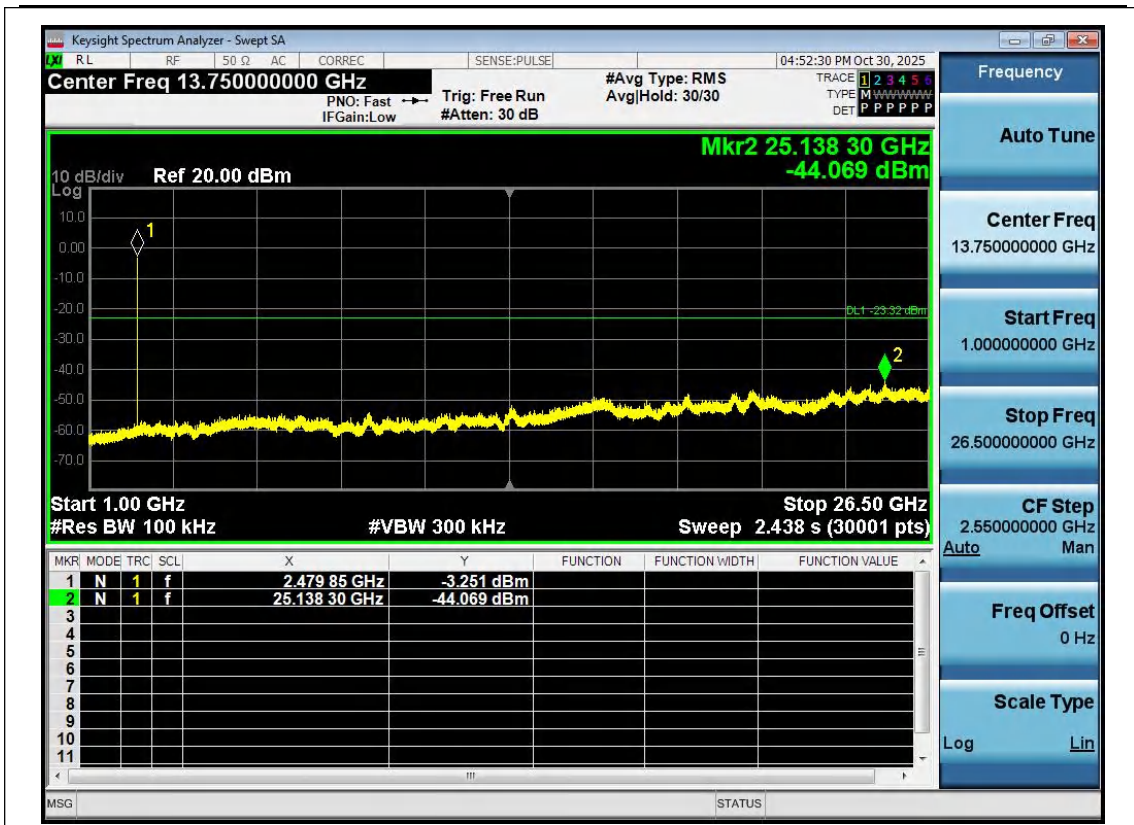


BLE_1M-Ant1-2480-30~1000-PASS

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BLE_1M-Ant1-2480-1000~26500-PASS

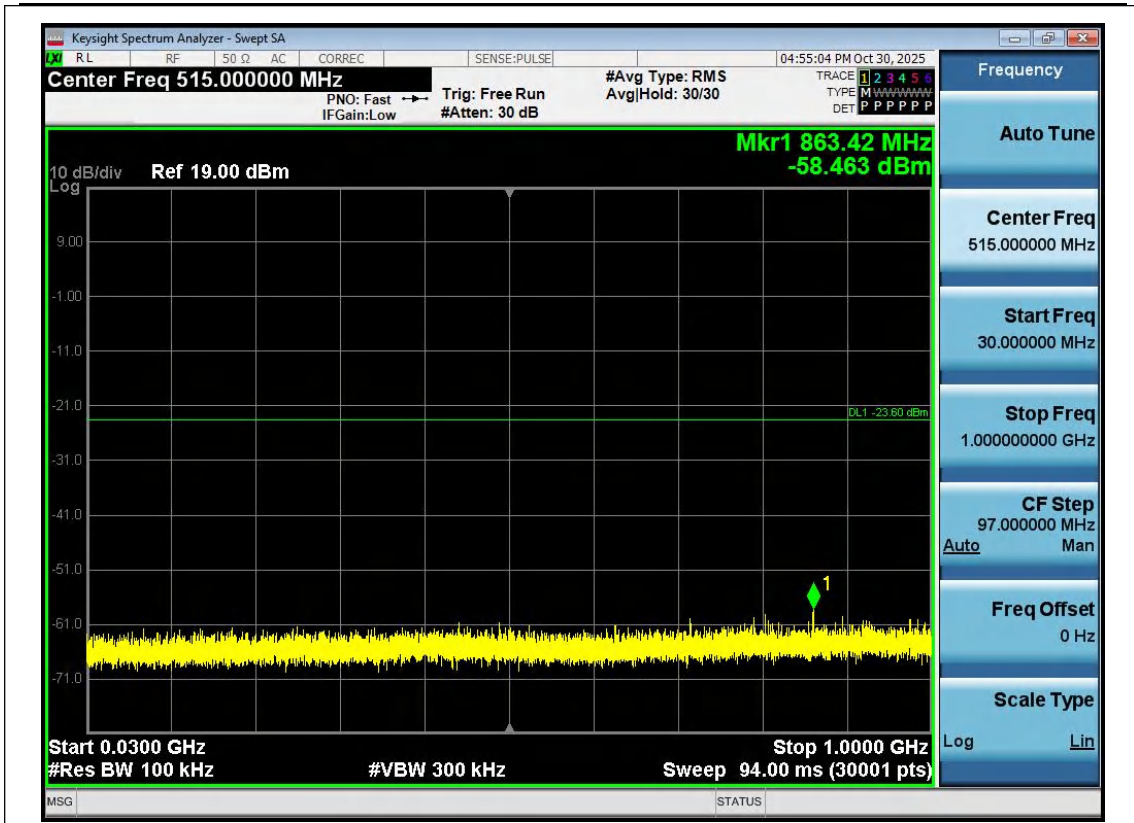


BLE_2M-Ant1-2402-0~Reference-PASS

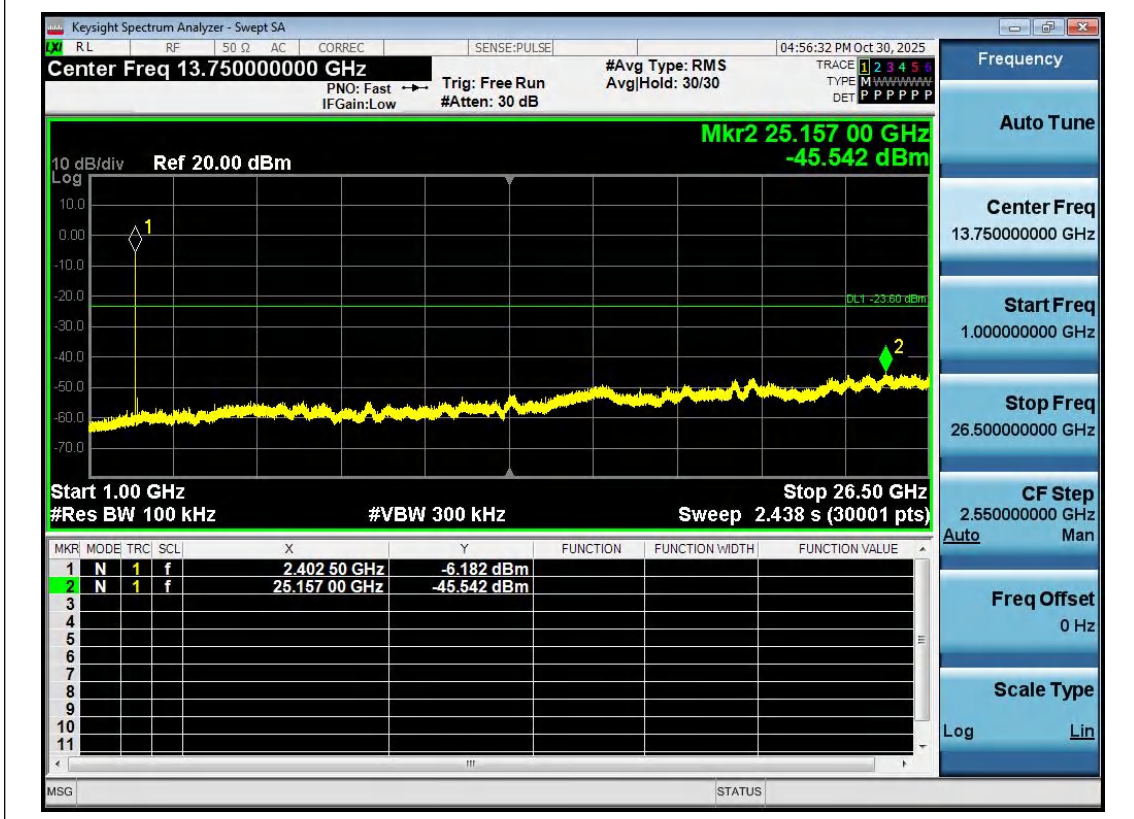
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BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

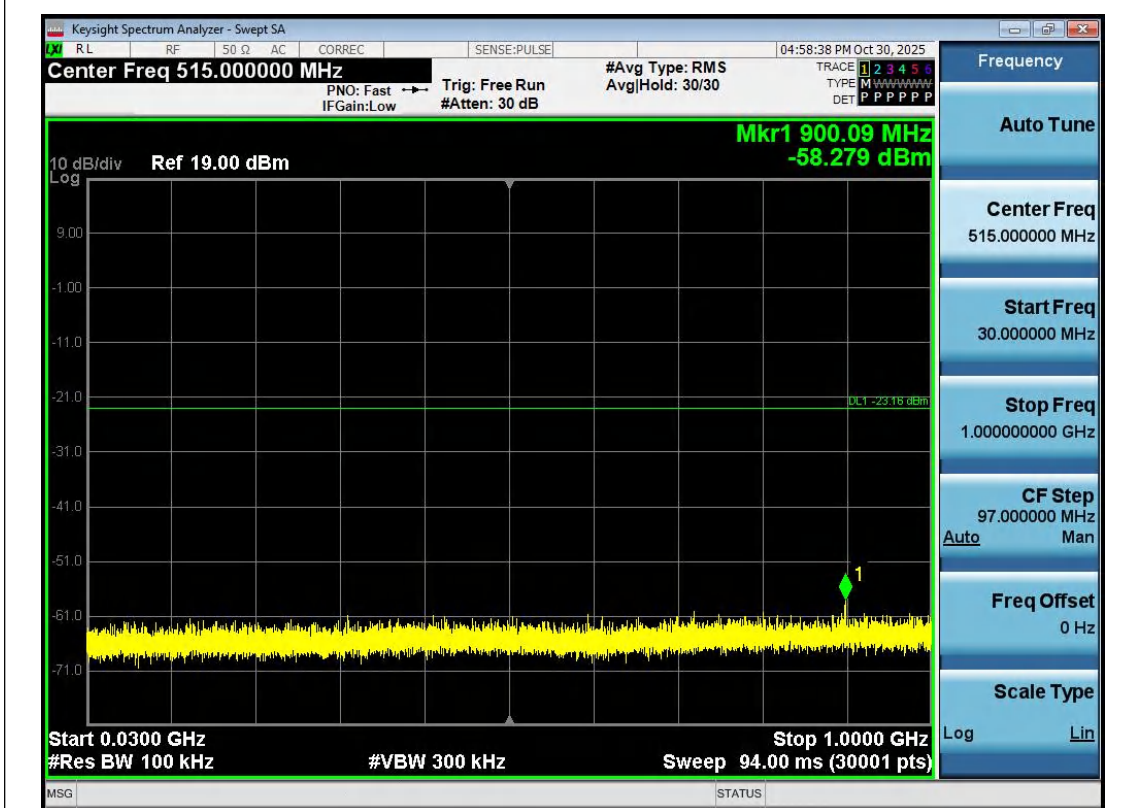
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BLE_2M-Ant1-2440-0~Reference-PASS

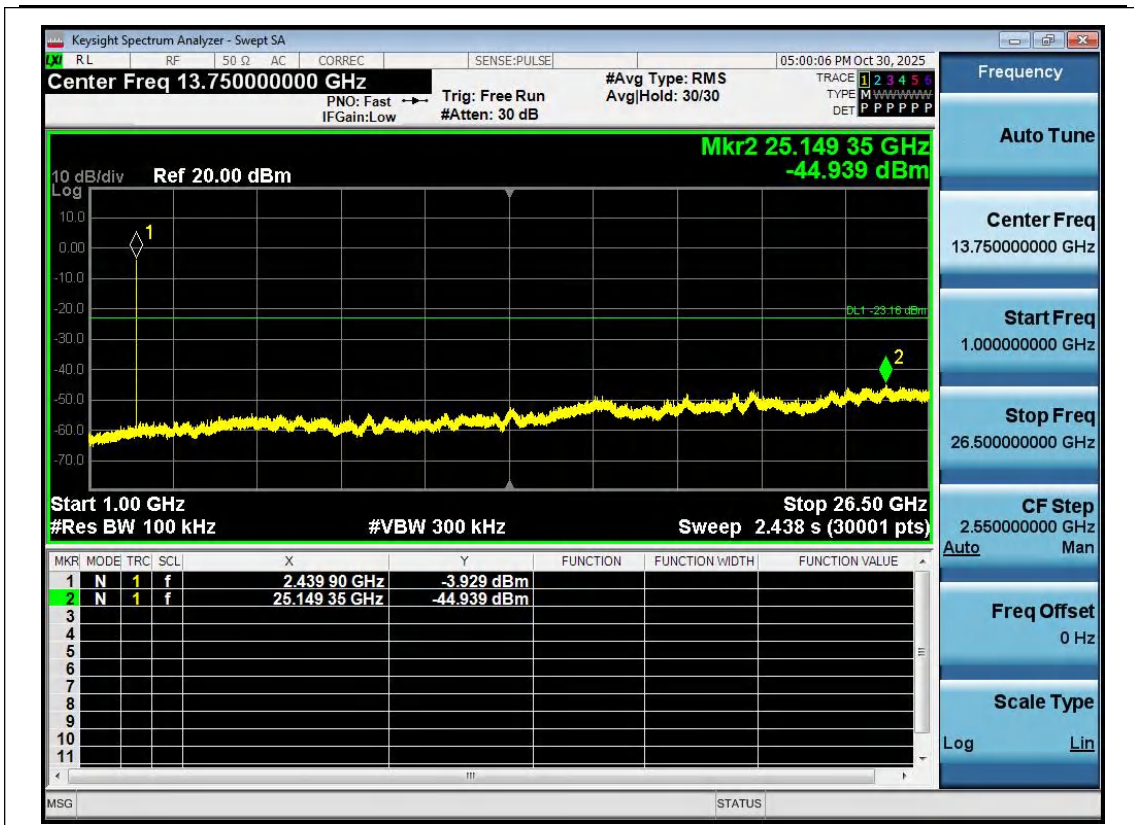


BLE_2M-Ant1-2440-30~1000-PASS

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BLE_2M-Ant1-2440-1000~26500-PASS

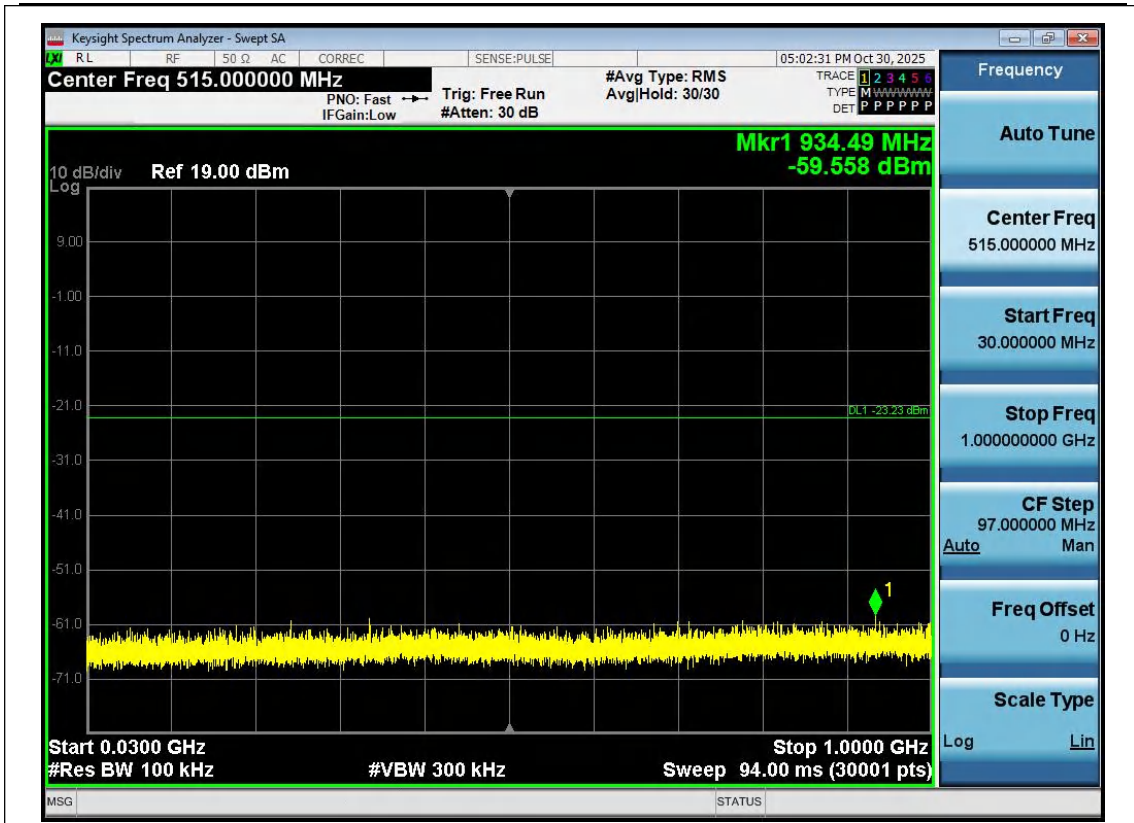


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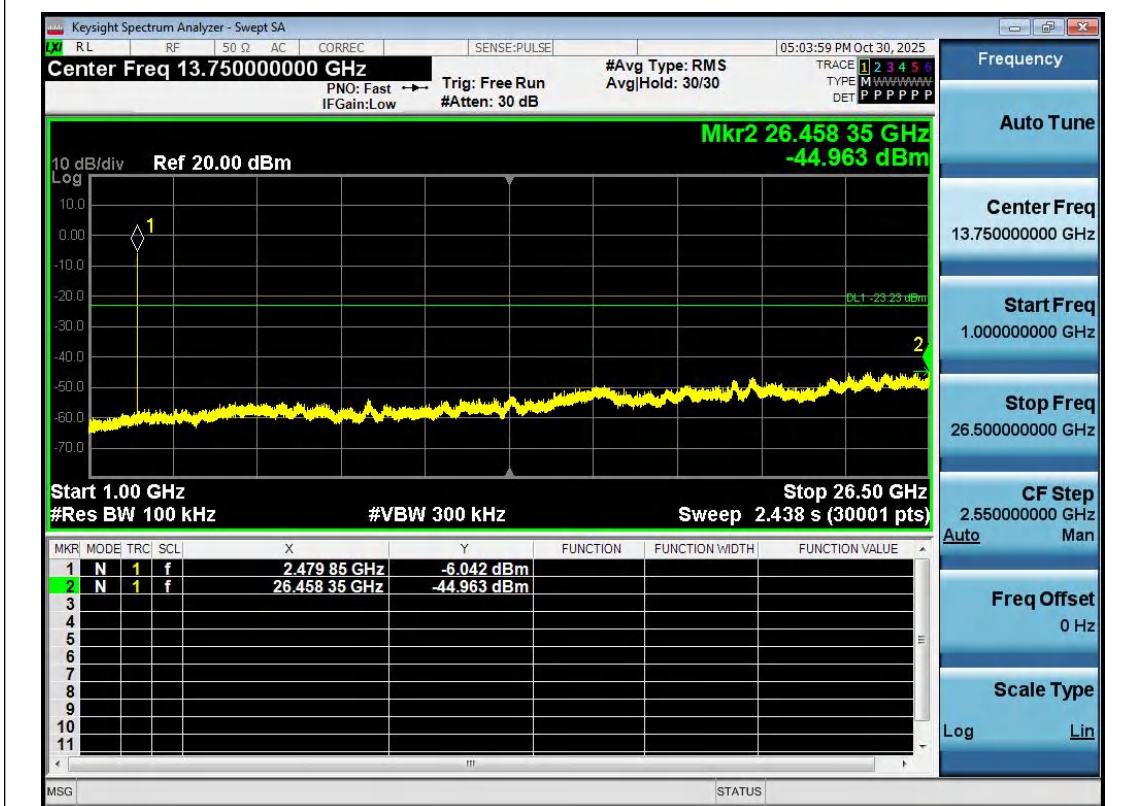
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BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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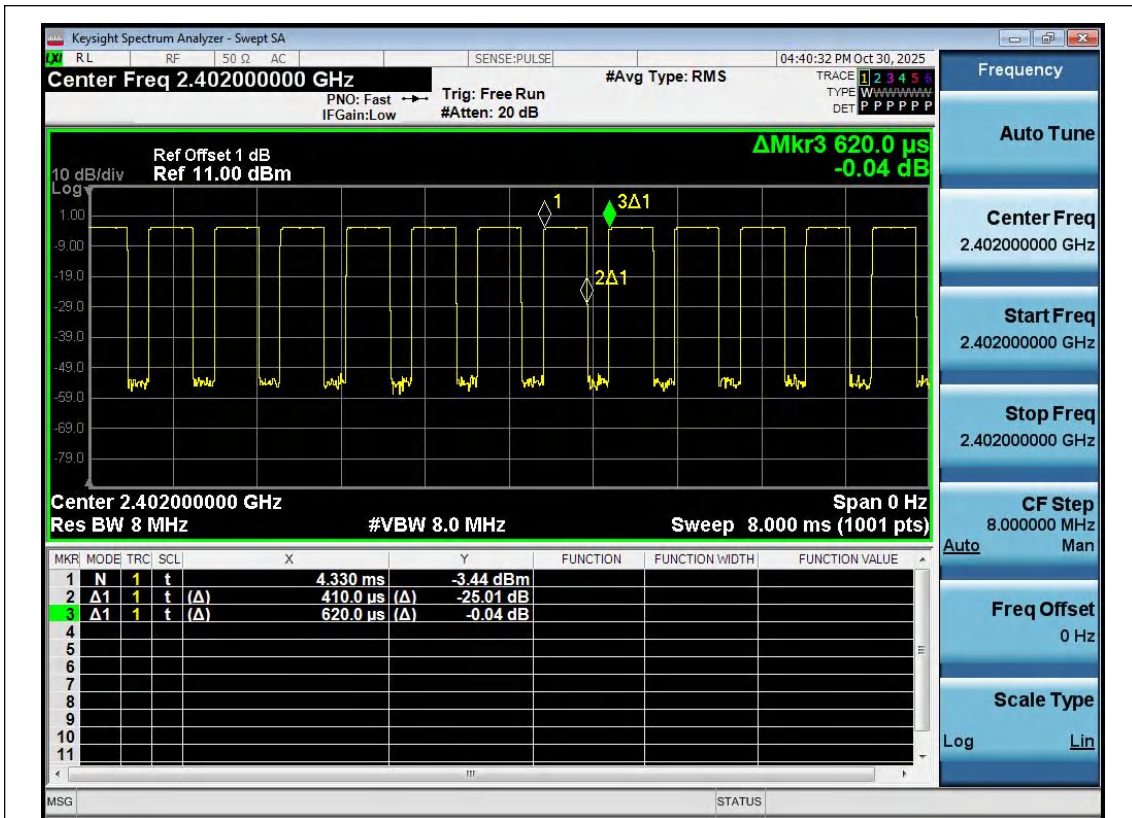
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Appendix G: Duty Cycle

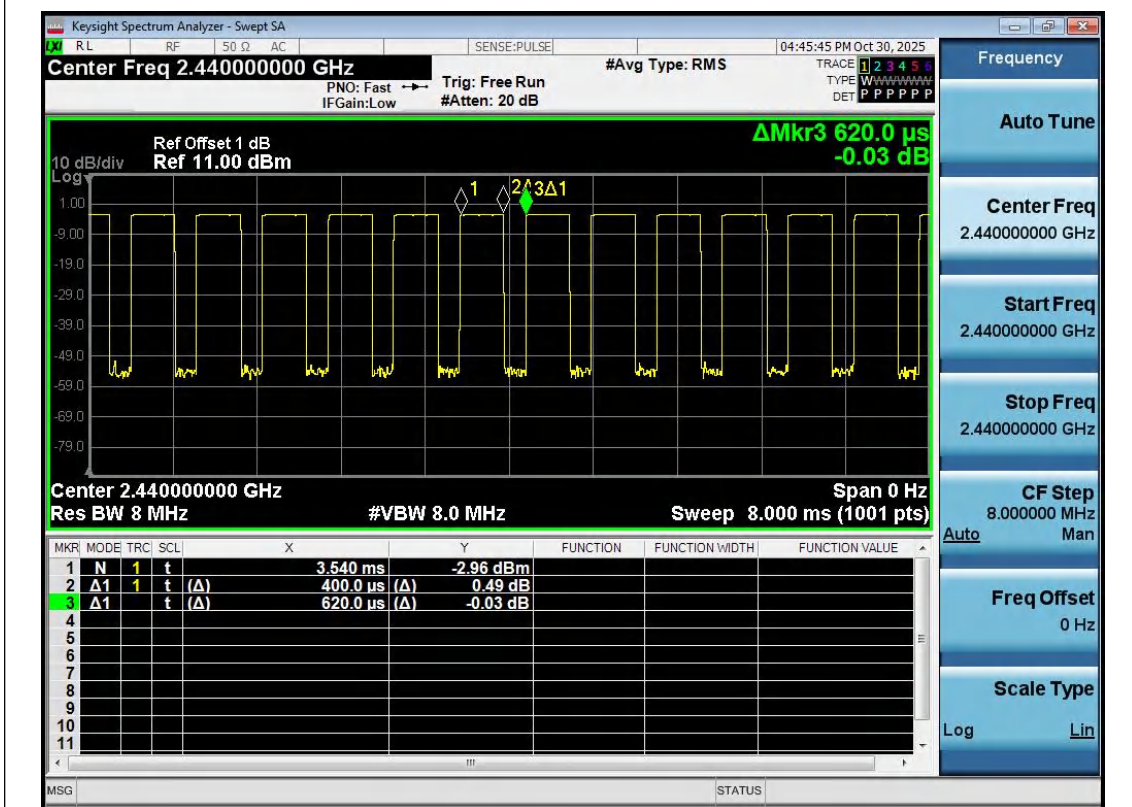
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2440	0.40	0.62	64.52	1.90
BLE_1M	Ant1	2480	0.40	0.62	64.52	1.90
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2440	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2480	0.22	0.62	35.48	4.50

Test Graphs



NTNV-BLE_1M-Ant1-2402

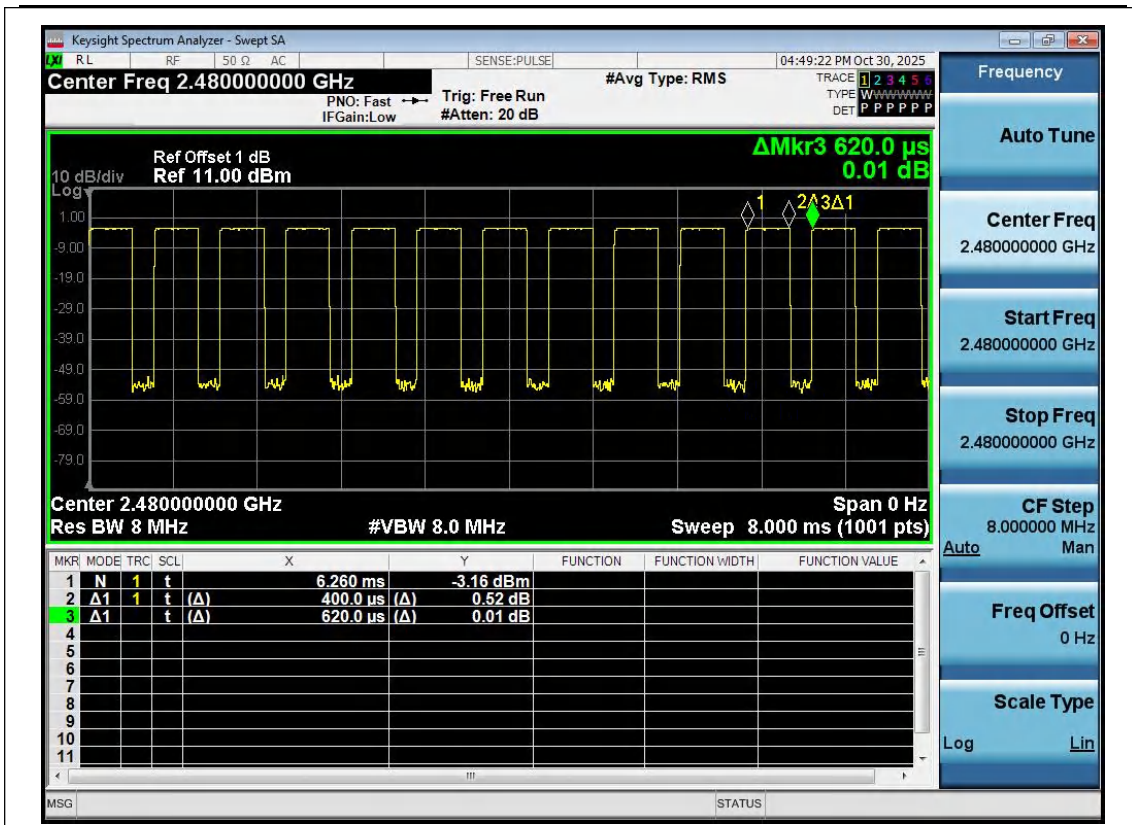


NTNV-BLE_1M-Ant1-2440

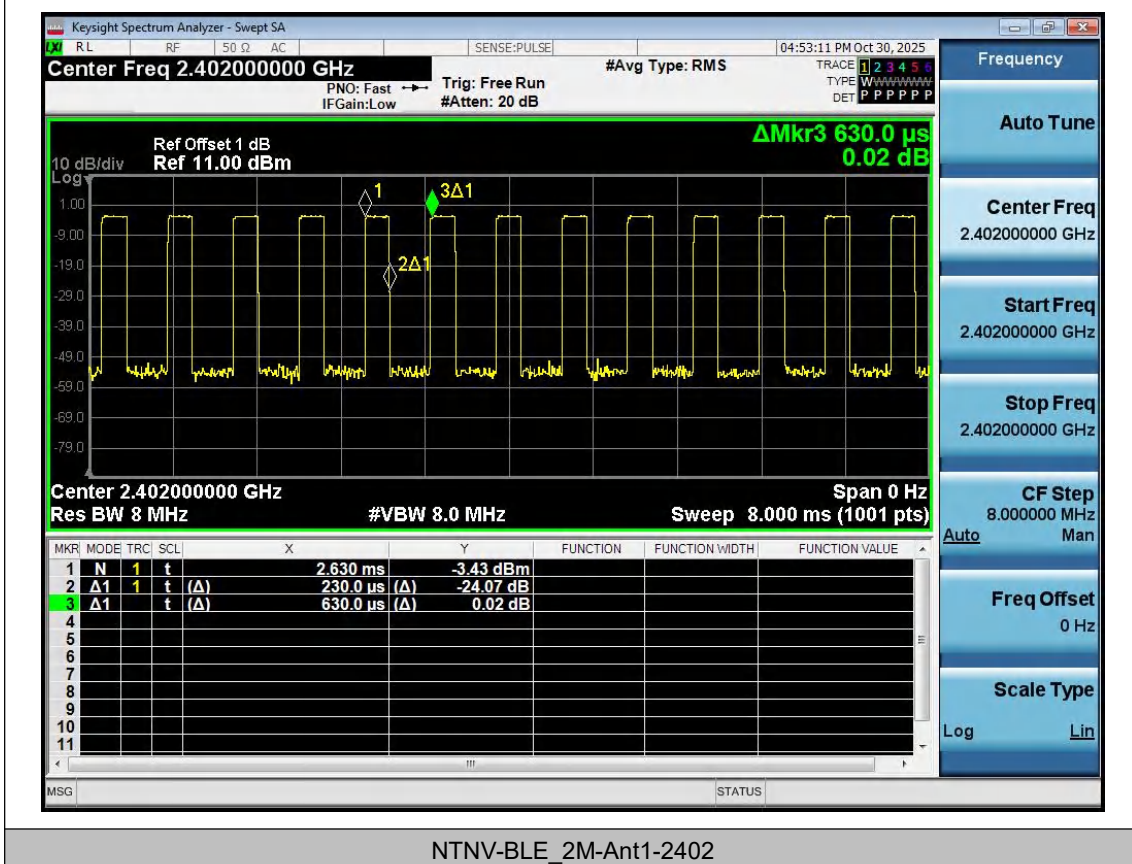
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NTNV-BLE_1M-Ant1-2480

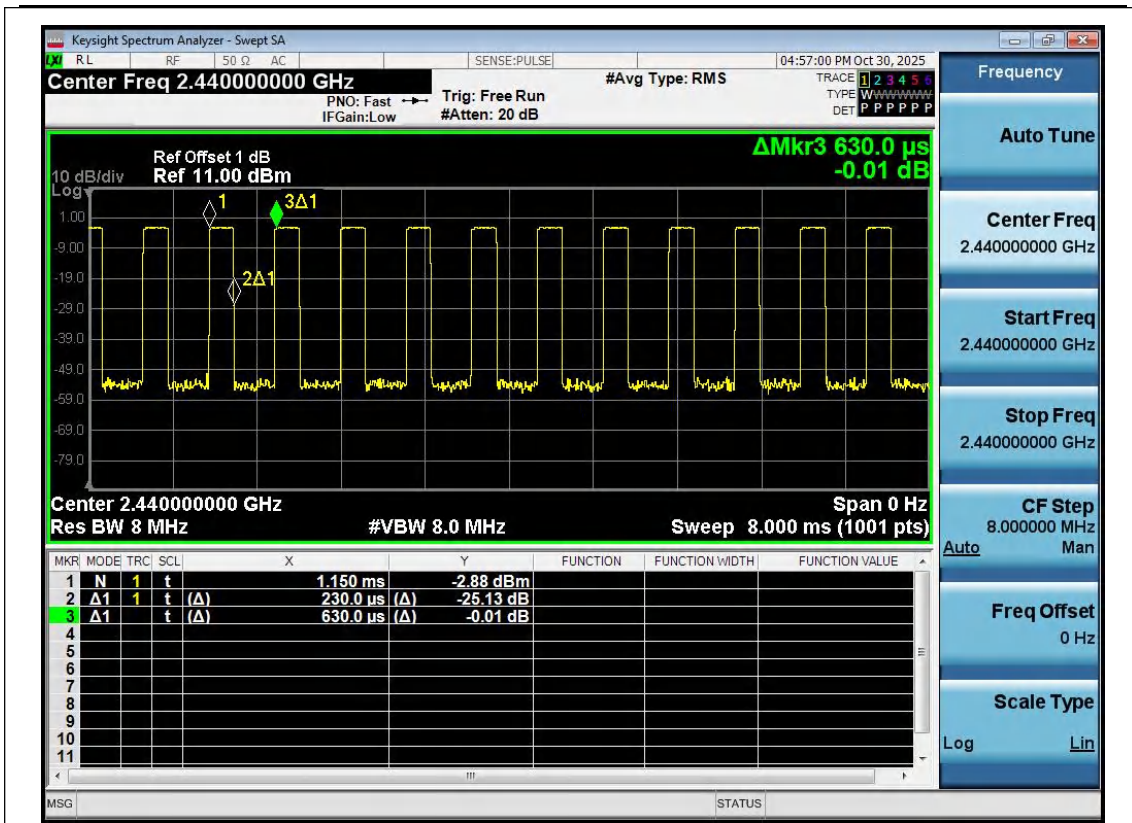


NTNV-BLE_2M-Ant1-2402

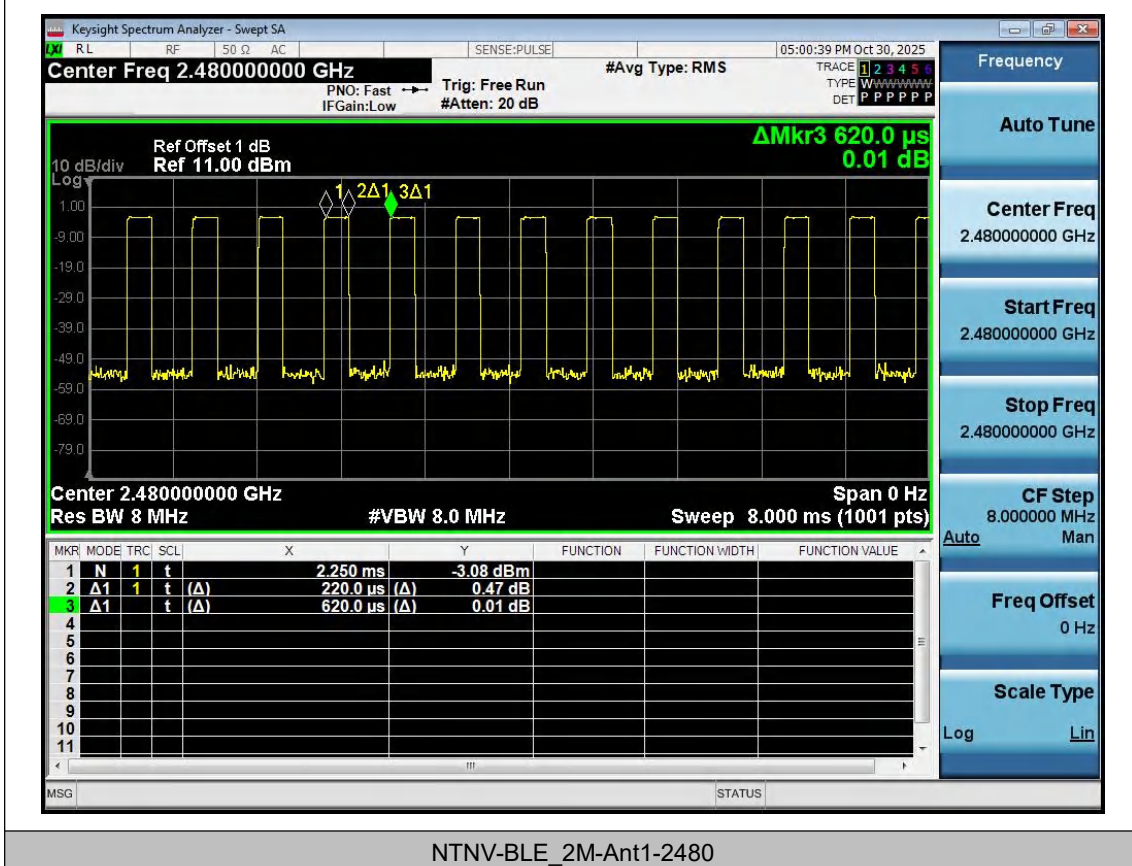
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NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---