

Appendix Test Data

Report No.:	1812C50535012501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-13	Finish Test Date:	2025-10-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.5°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
2.4G	Ant1	2402	0.524	2401.660	2402.184	0.5	PASS
2.4G	Ant1	2440	0.504	2439.656	2440.160	0.5	PASS
2.4G	Ant1	2480	0.512	2479.656	2480.168	0.5	PASS

Test Graphs



2.4G-Ant1-2402-PASS



2.4G-Ant1-2440-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
2.4G	Ant1	2402	1.1109	2401.4227	2402.5336	---	---
2.4G	Ant1	2440	1.1405	2439.3943	2440.5348	---	---
2.4G	Ant1	2480	1.2053	2479.3237	2480.5290	---	---

Test Graphs



2.4G-Ant1-2402



2.4G-Ant1-2440

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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
2.4G	Ant1	2402	1.00	≤20.97	PASS
2.4G	Ant1	2440	1.79	≤20.97	PASS
2.4G	Ant1	2480	2.47	≤20.97	PASS

Test Graphs Peak





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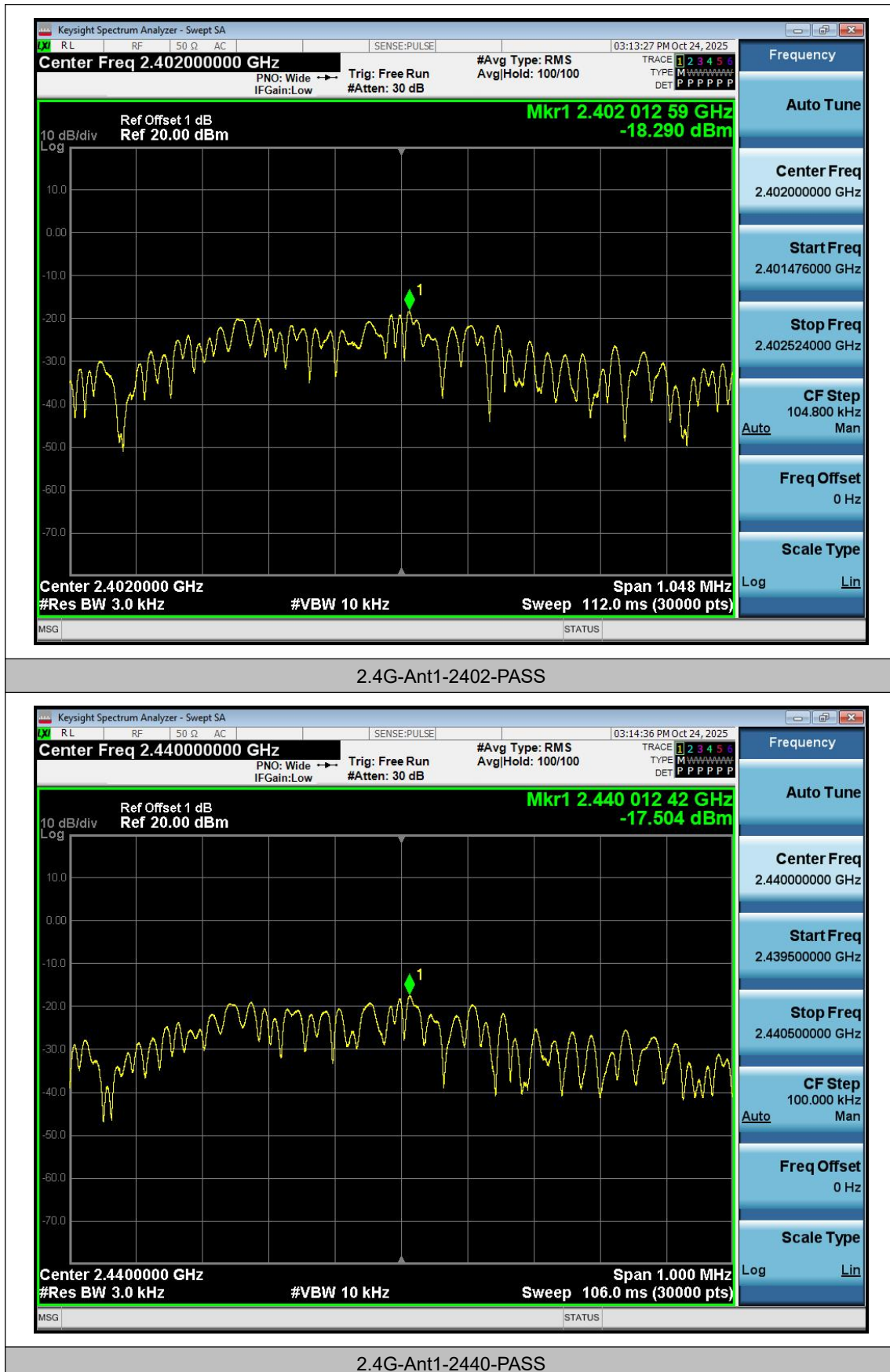
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4G	Ant1	2402	-18.29	≤8.00	PASS
2.4G	Ant1	2440	-17.50	≤8.00	PASS
2.4G	Ant1	2480	-15.57	≤8.00	PASS

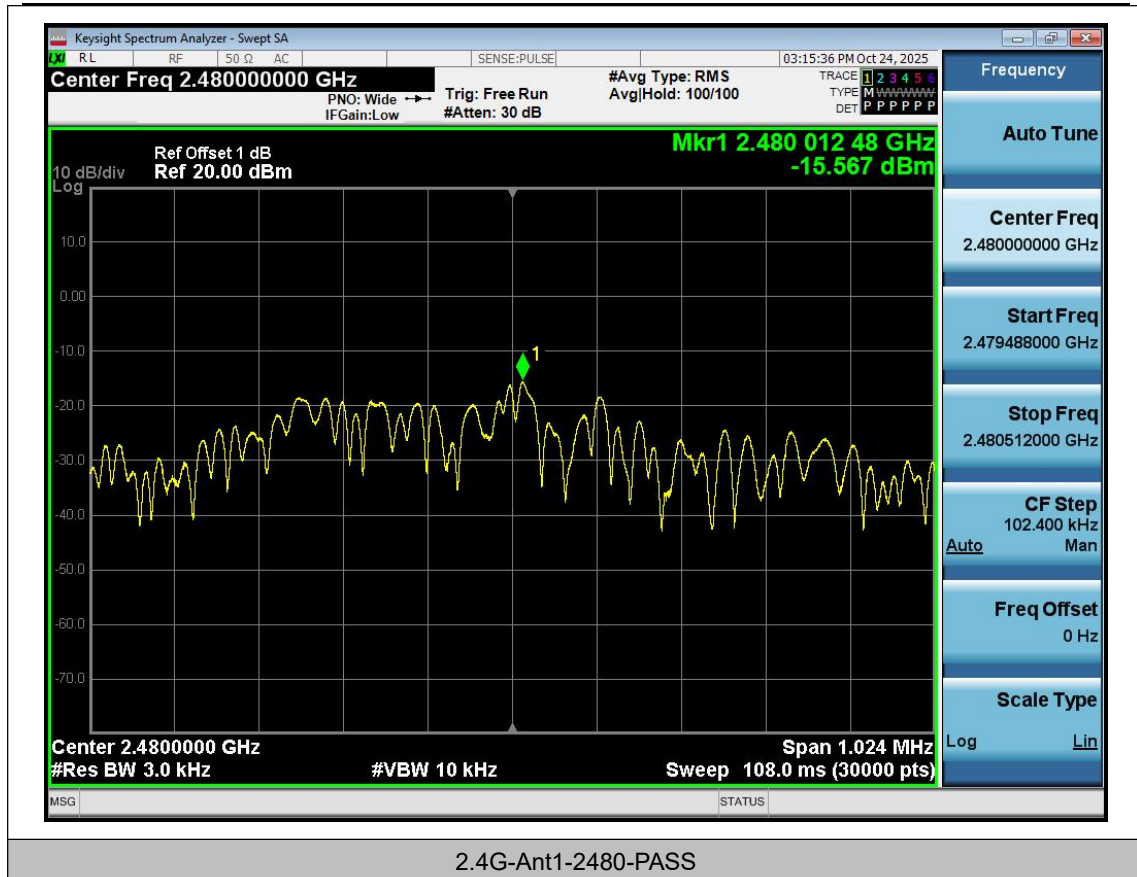
Test Graphs



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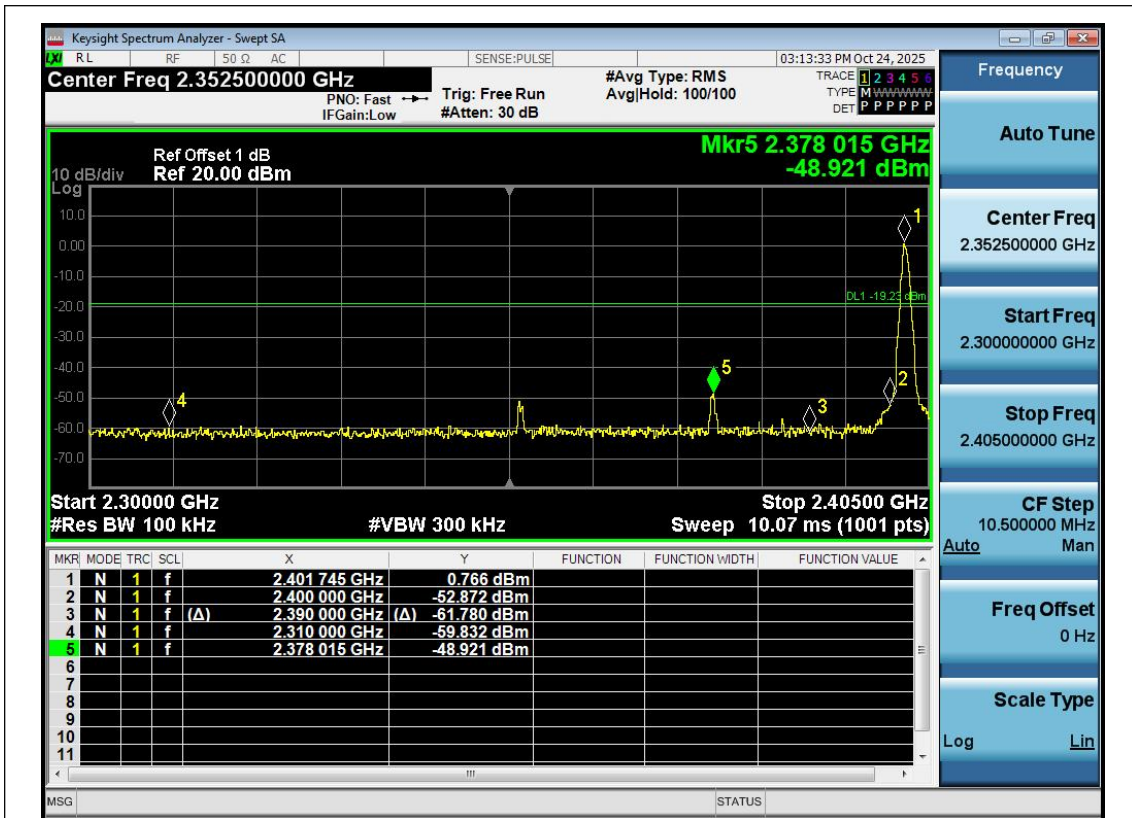
Appendix E: Band edge measurements

Test Result

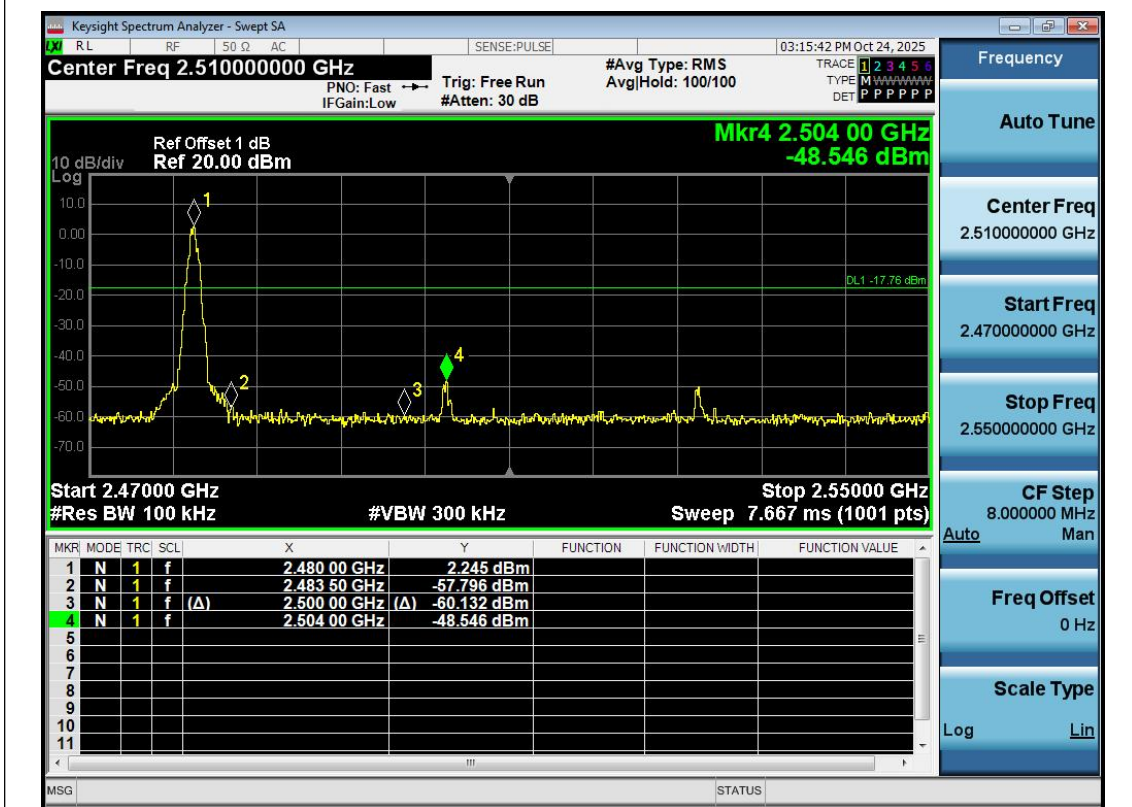
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	0.77	-48.92	≤-19.23	PASS
2.4G	Ant1	High	2480	2.25	-48.55	≤-17.76	PASS

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



2.4G-Ant1-2402-PASS



2.4G-Ant1-2480-PASS

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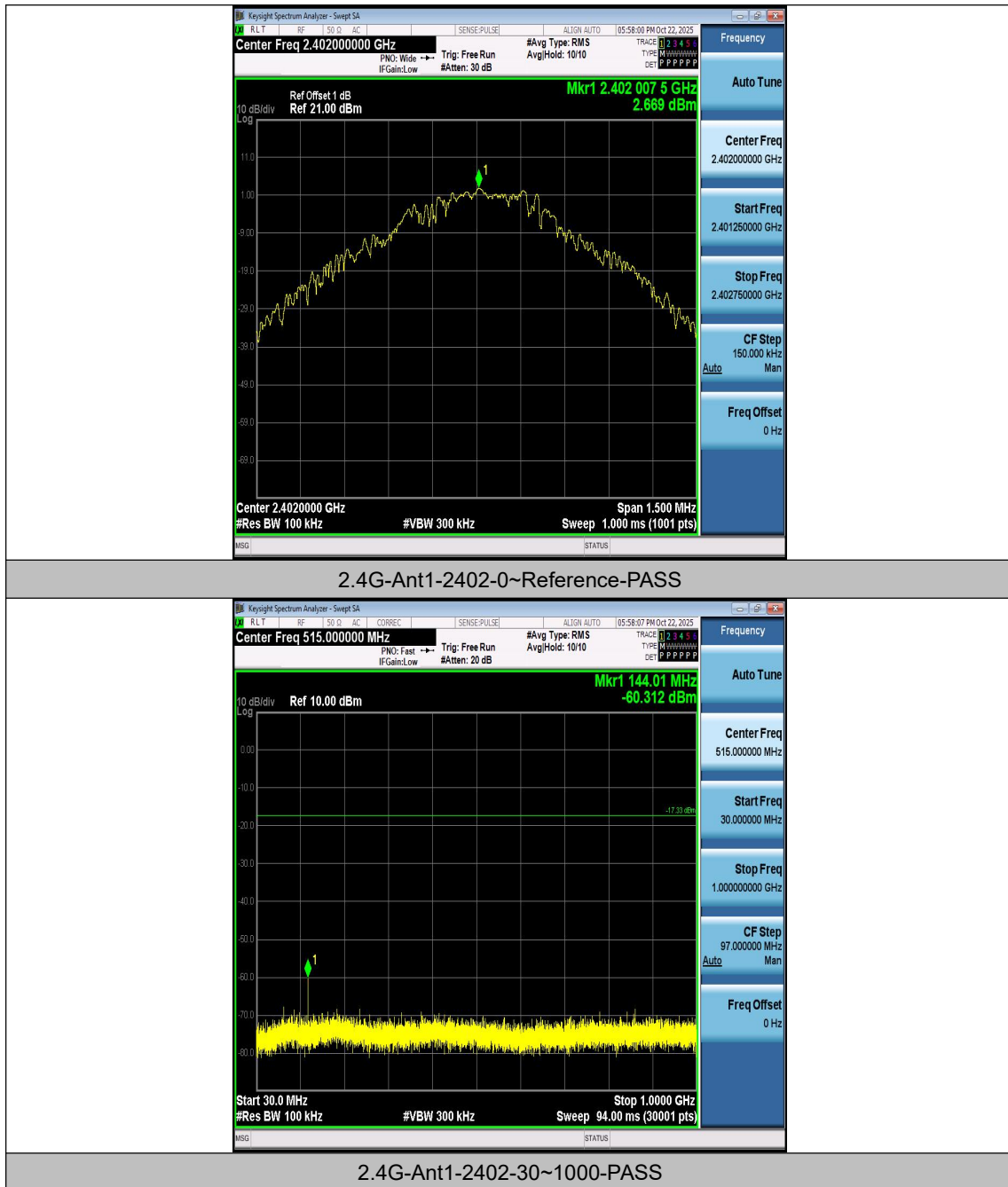
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402	0~Reference	2.67	2.67	---	PASS
2.4G	Ant1	2402	30~1000	2.67	-60.31	≤-17.33	PASS
2.4G	Ant1	2402	1000~26500	2.67	-40.73	≤-17.33	PASS
2.4G	Ant1	2440	0~Reference	0.61	0.61	---	PASS
2.4G	Ant1	2440	30~1000	0.61	-68.31	≤-19.39	PASS
2.4G	Ant1	2440	1000~26500	0.61	-39.53	≤-19.39	PASS
2.4G	Ant1	2480	0~Reference	0.60	0.60	---	PASS
2.4G	Ant1	2480	30~1000	0.60	-68.35	≤-19.4	PASS
2.4G	Ant1	2480	1000~26500	0.60	-40.21	≤-19.4	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.

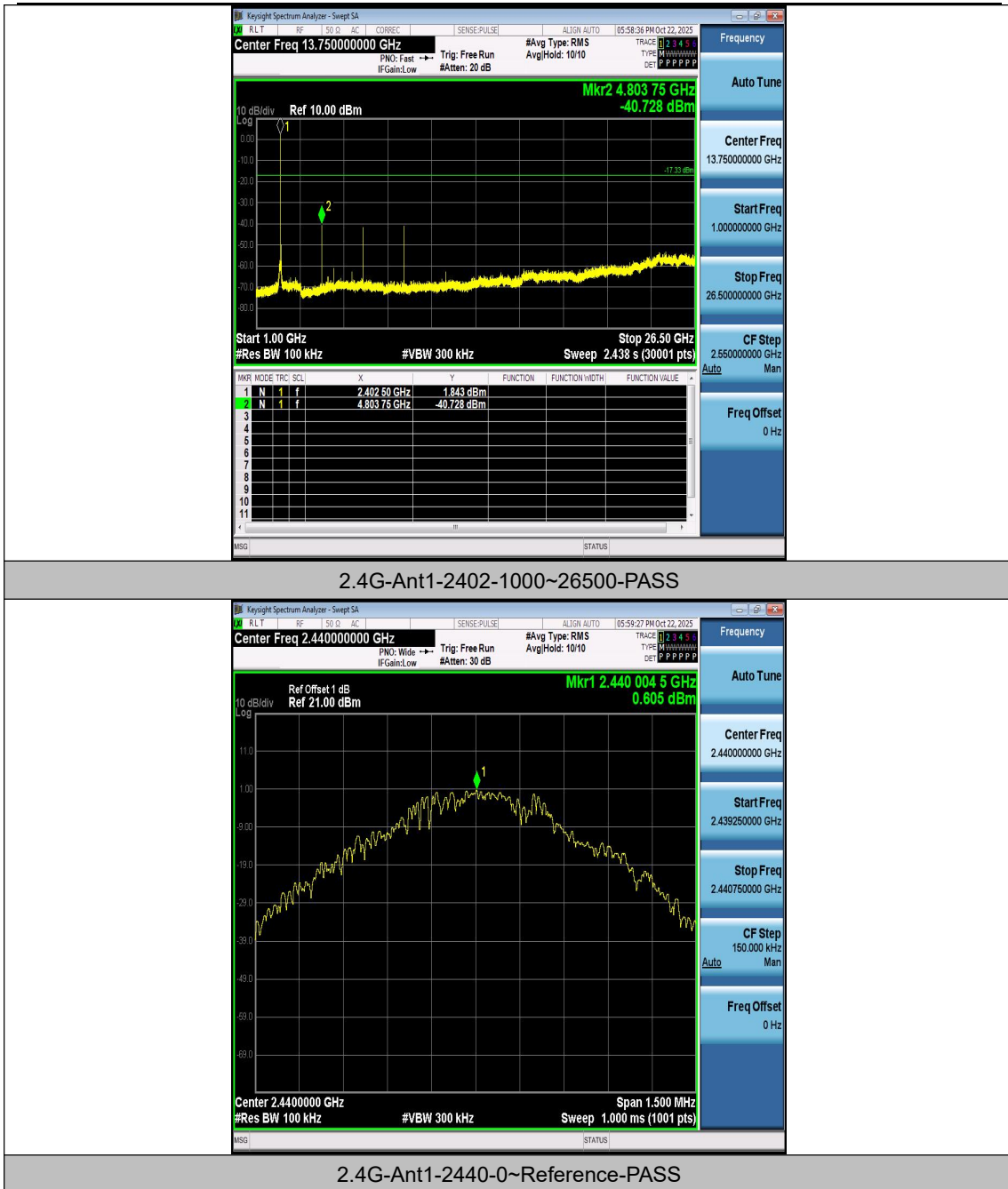
Test Graphs



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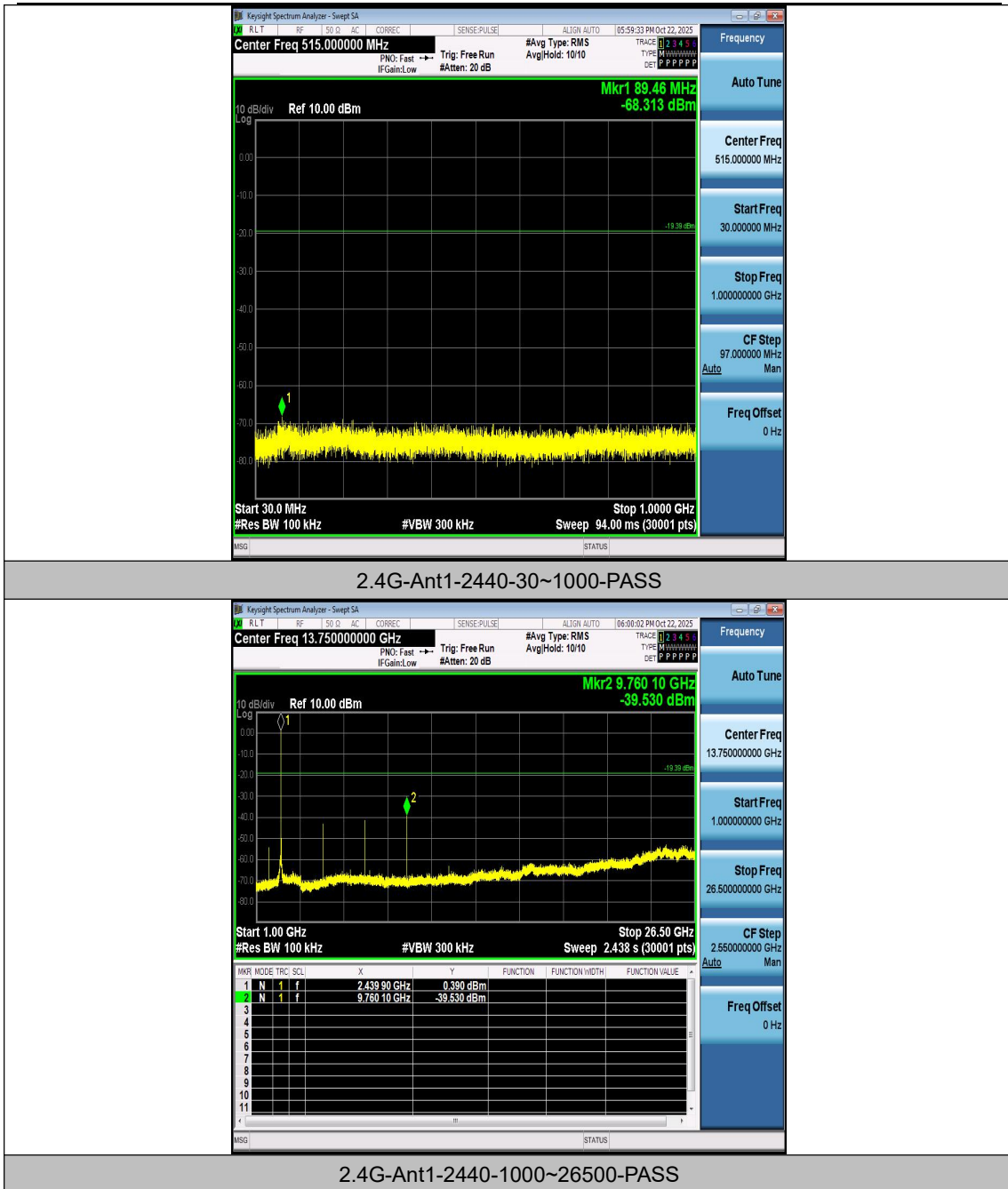
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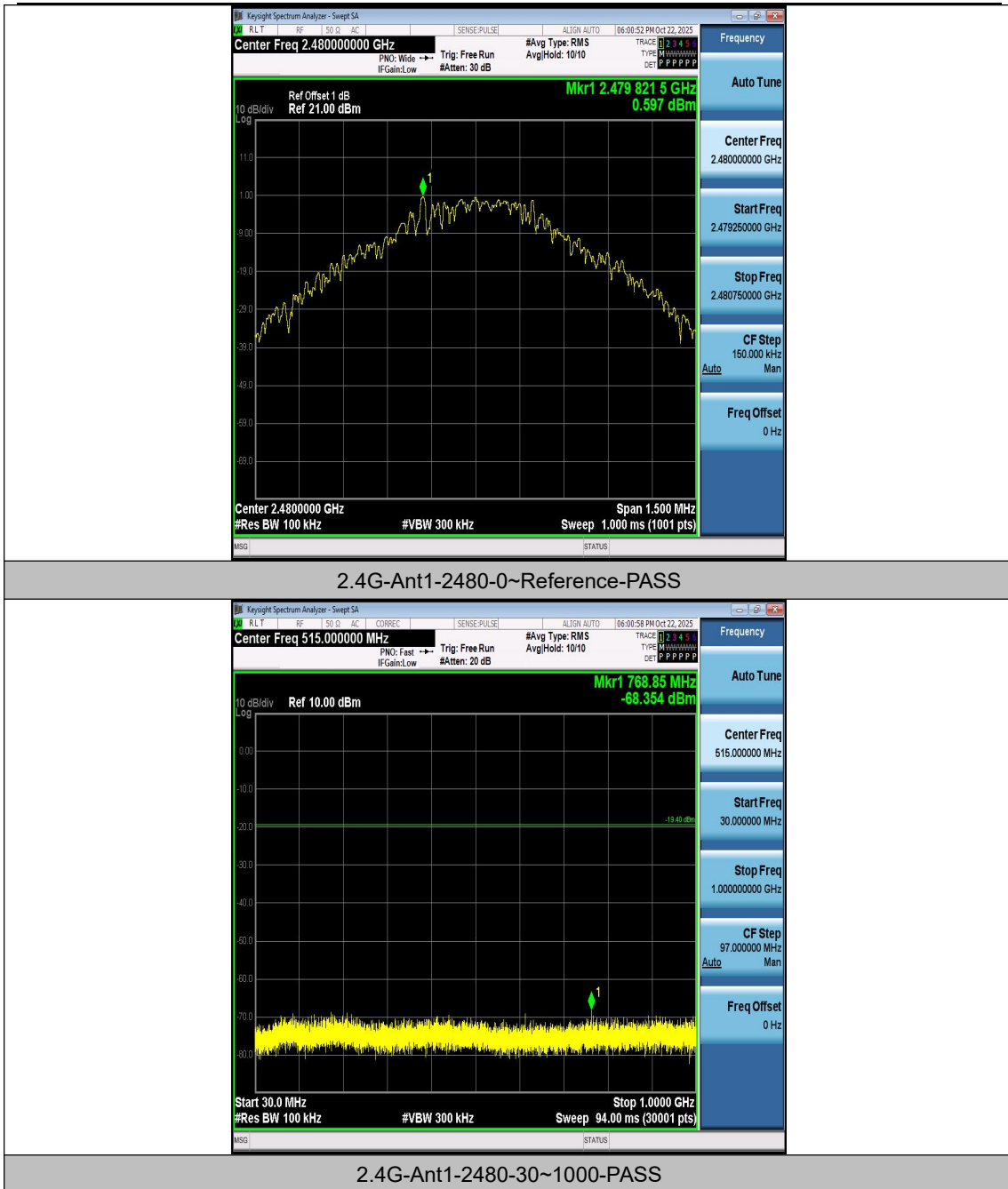
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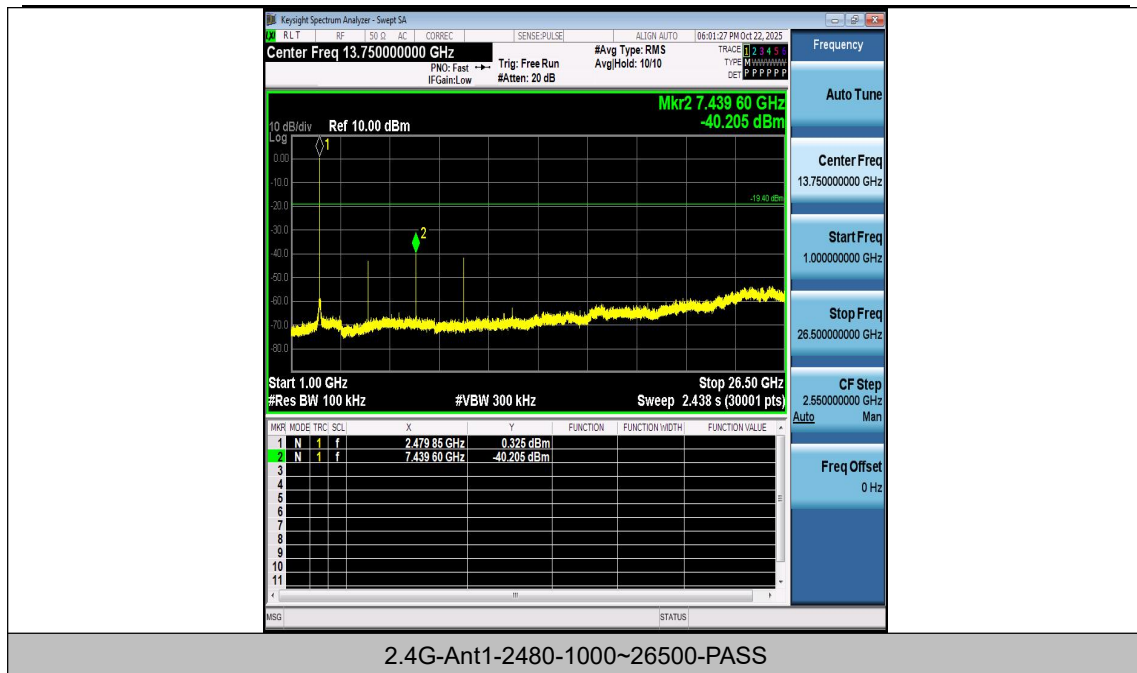
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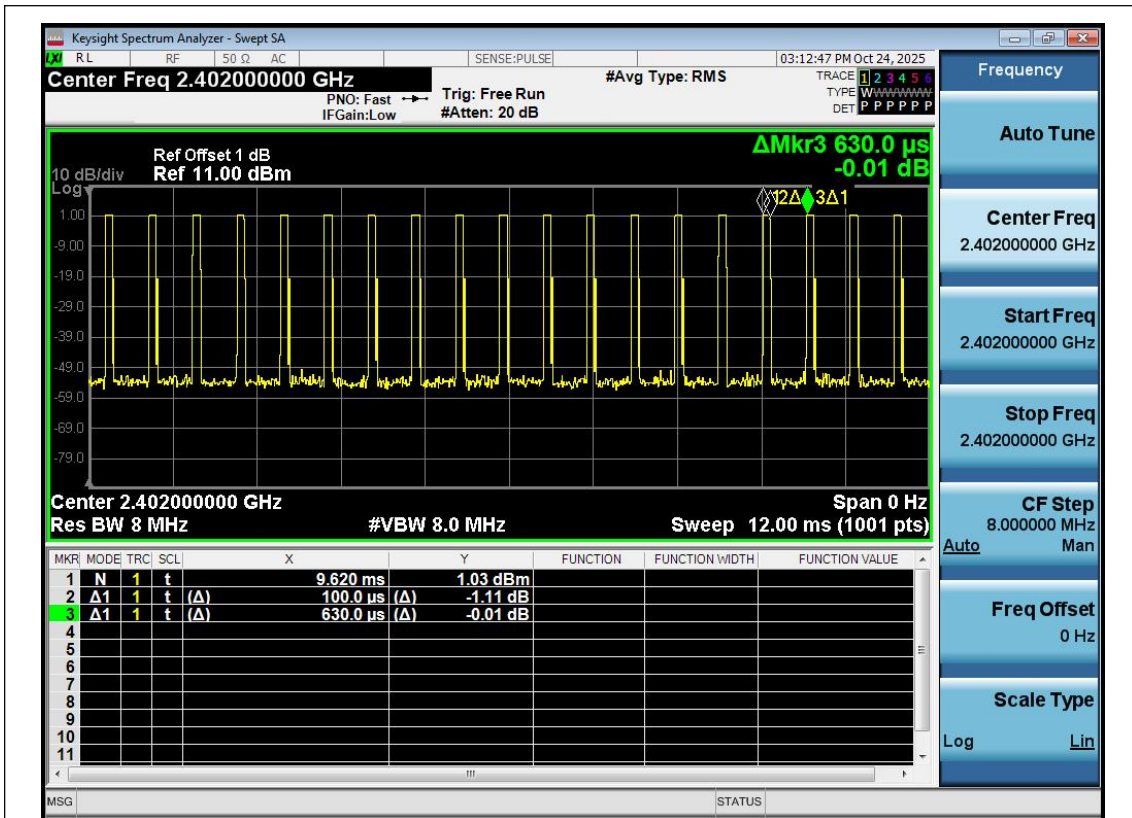
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Appendix G: Duty Cycle

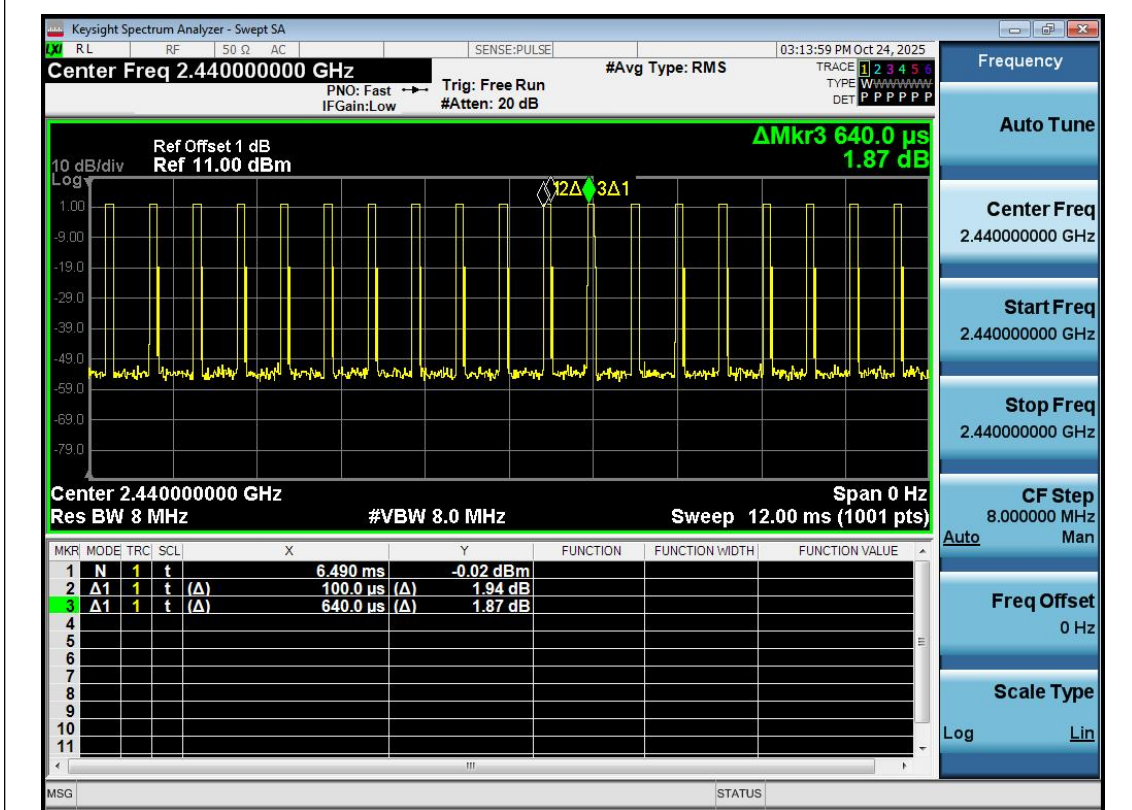
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	0.10	0.63	15.87	7.99
2.4G	Ant1	2440	0.10	0.64	15.63	8.06
2.4G	Ant1	2480	0.09	0.63	14.29	8.45

Test Graphs



NTNV-2.4G-Ant1-2402

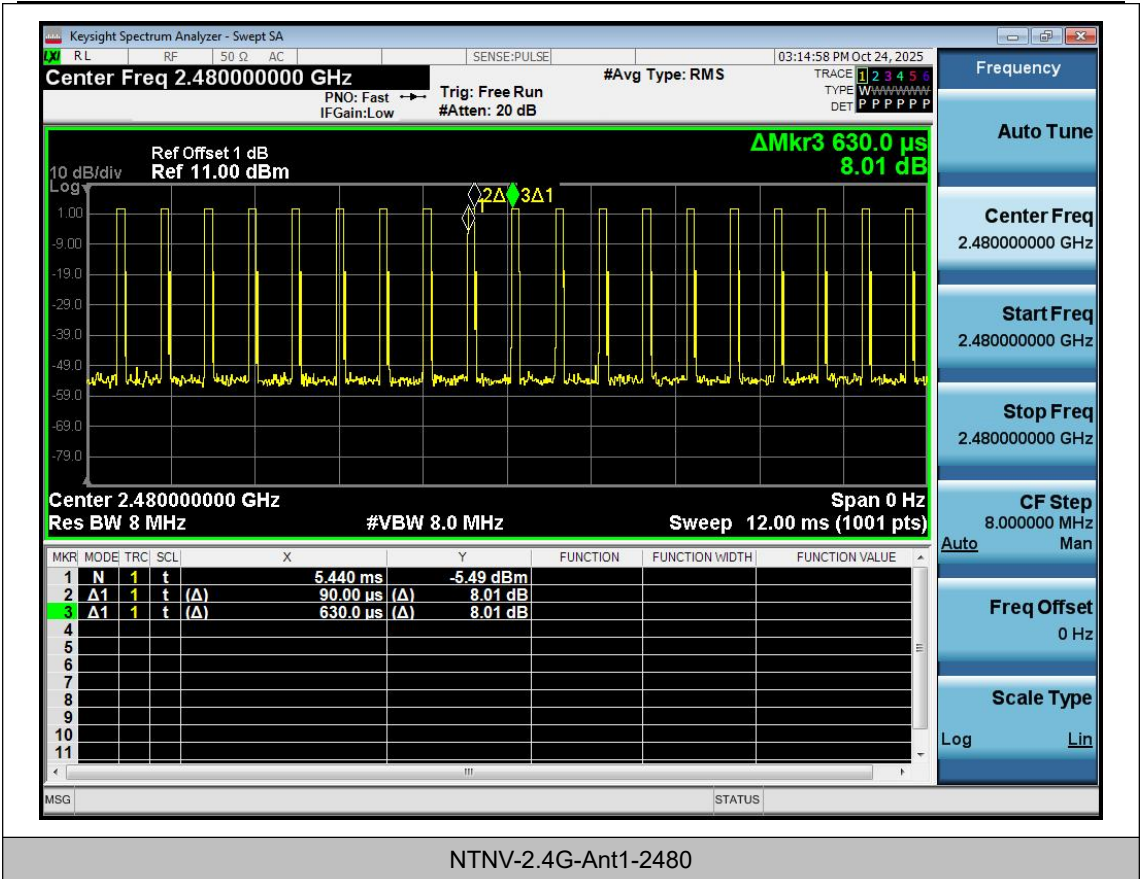


NTNV-2.4G-Ant1-2440

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