

Appendix Test Data

Report No.:	1812C50401412502	Test Sample No.:	1-2-2
Start Test Date:	2025-08-18	Finish Test Date:	2025-08-18
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	26.3°C	Relative Humidity:	55%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	2.355	2401.850	2404.205	---	---
2.4G	Ant1	2441	2.335	2439.875	2442.210	---	---
2.4G	Ant1	2480	2.335	2478.880	2481.215	---	---

Test Graphs





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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	2403	2.3145	2401.8325	2404.1470	---	---
2.4G	Ant1	2441	2.3130	2439.8328	2442.1458	---	---
2.4G	Ant1	2480	2.2870	2478.8516	2481.1386	---	---

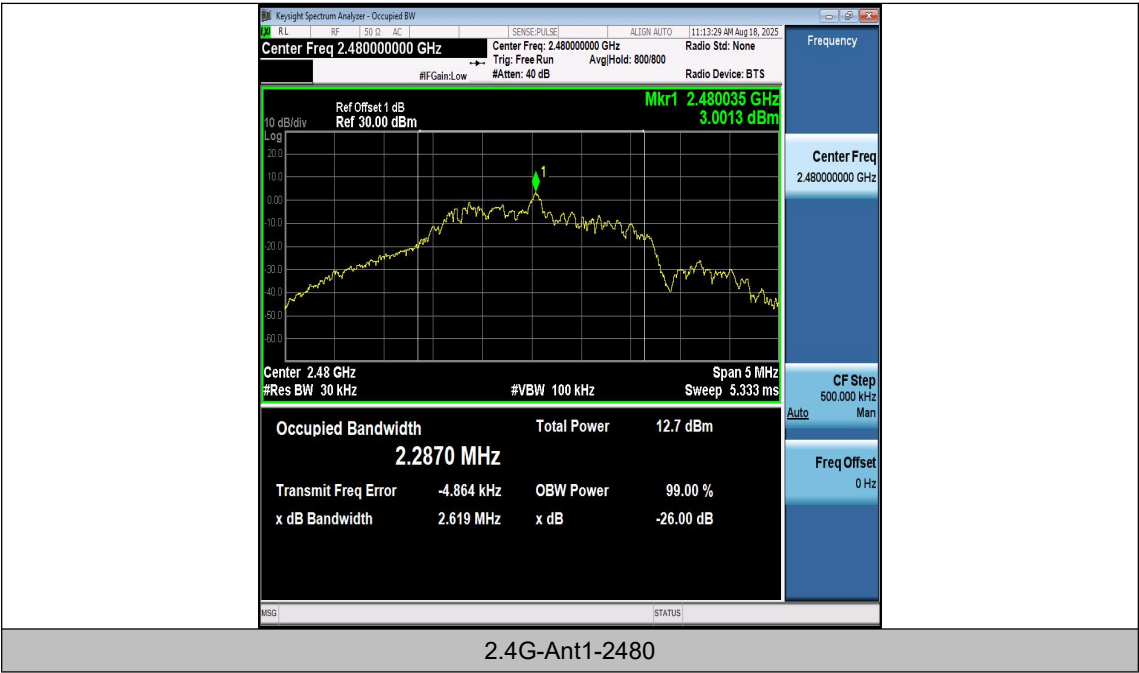
Test Graphs



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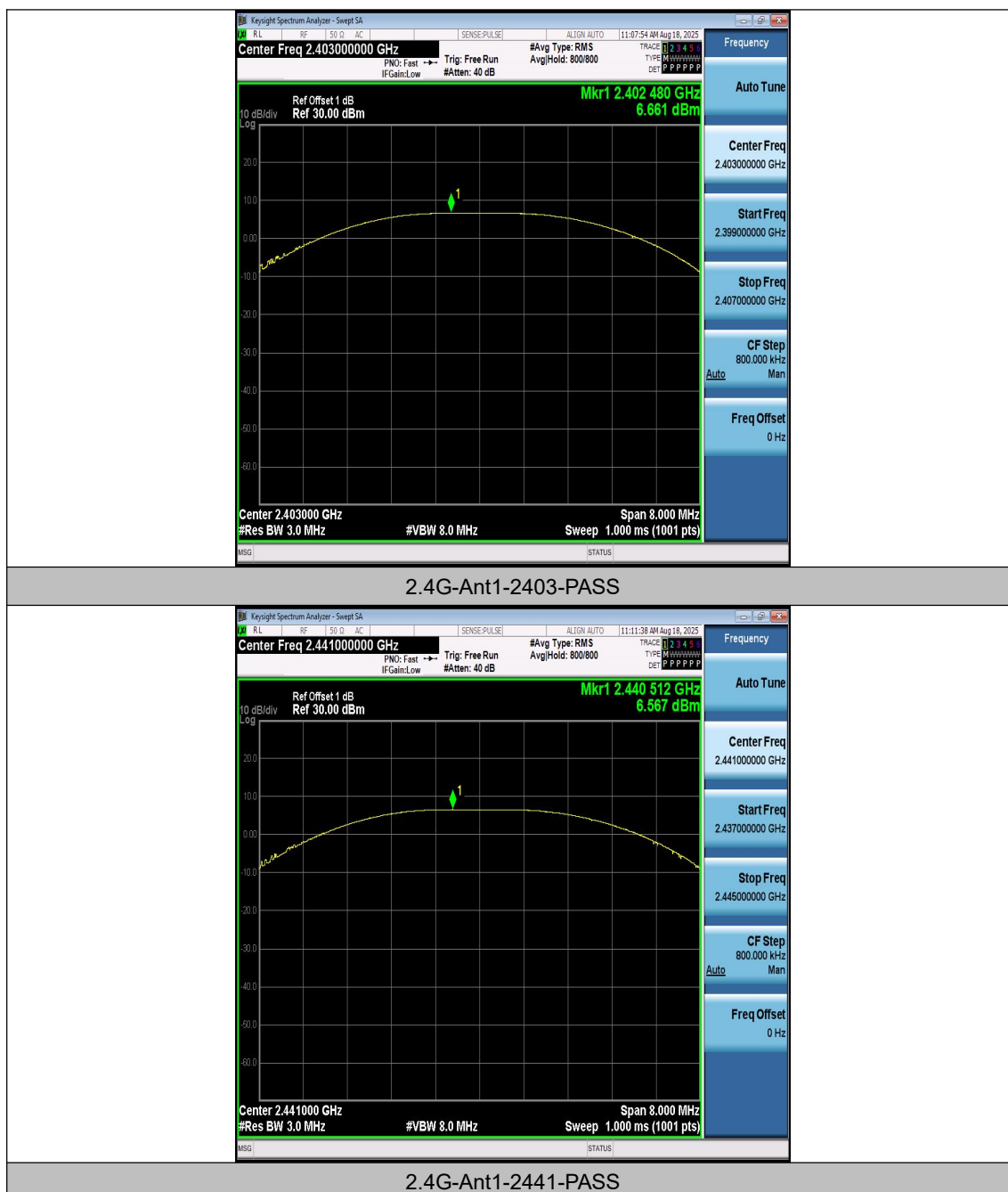
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	6.66	≤20.97	PASS
2.4G	Ant1	2441	6.57	≤20.97	PASS
2.4G	Ant1	2480	6.37	≤20.97	PASS

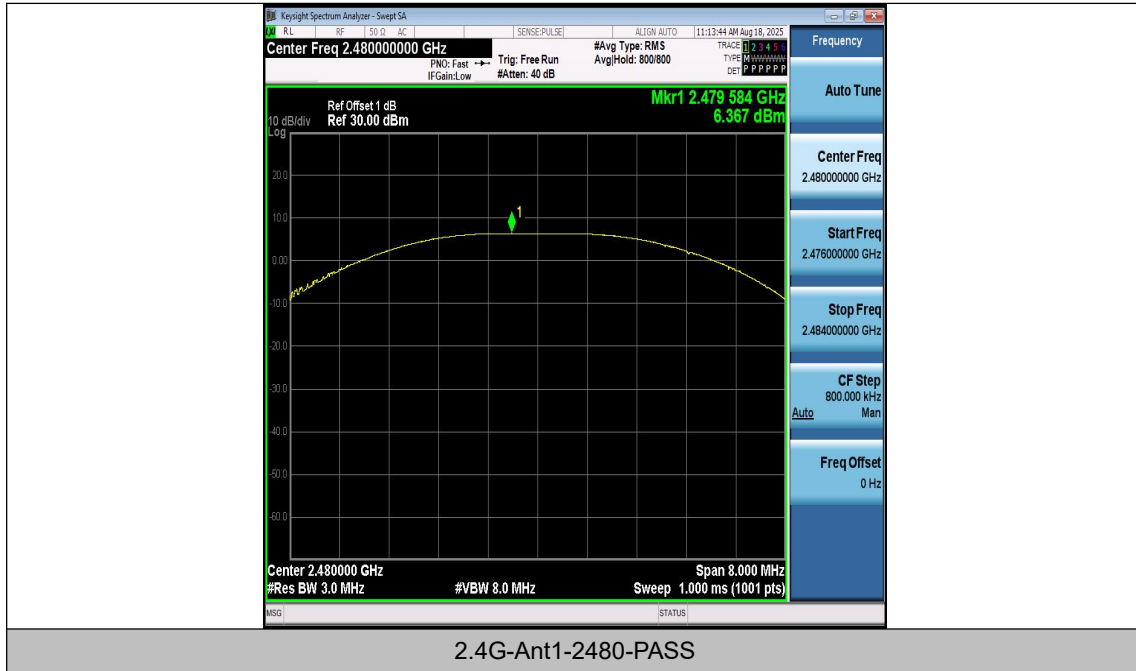
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2	≥ 1.557	PASS



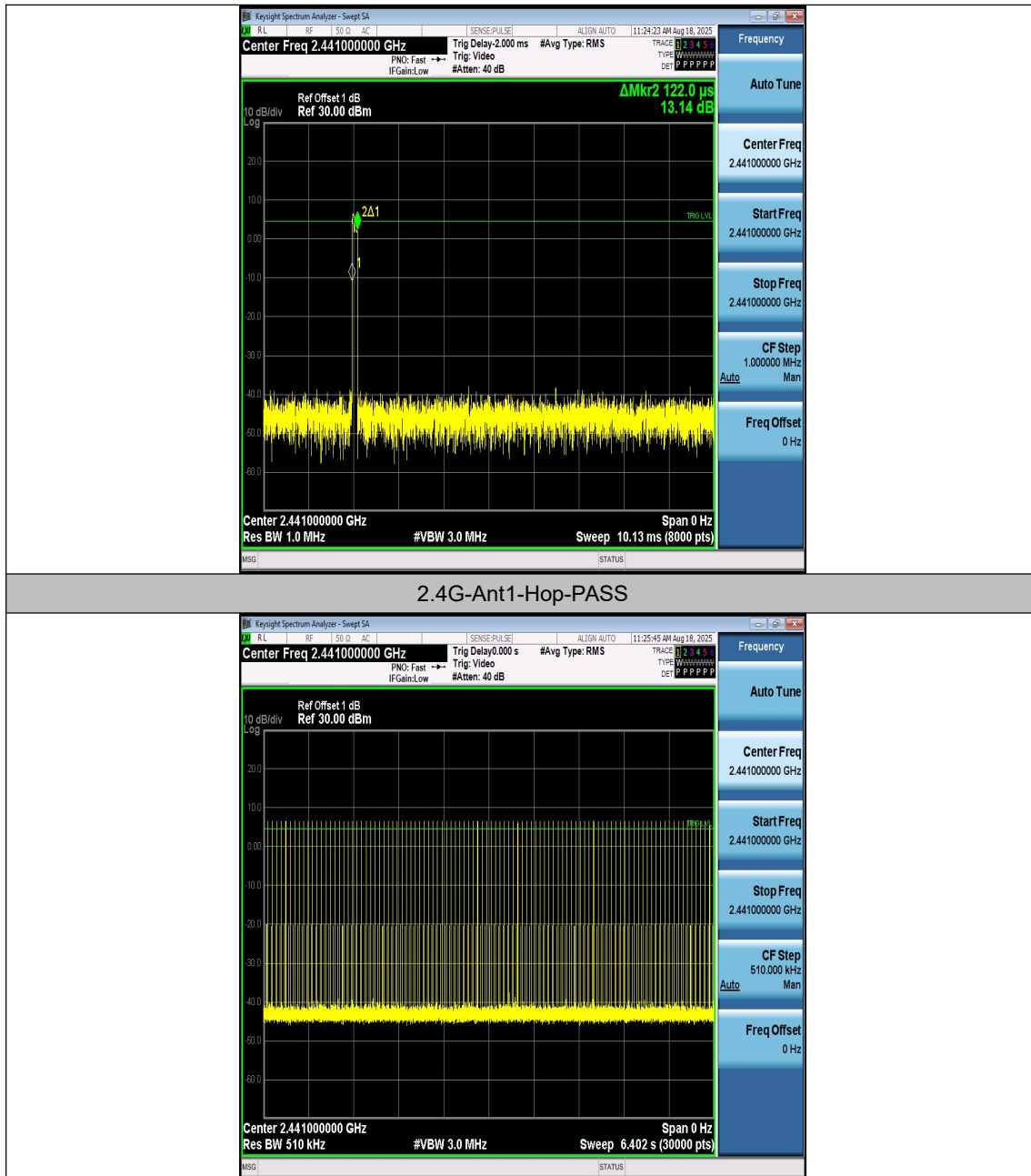
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.122	101	0.012	≤0.4	PASS

Test Graphs



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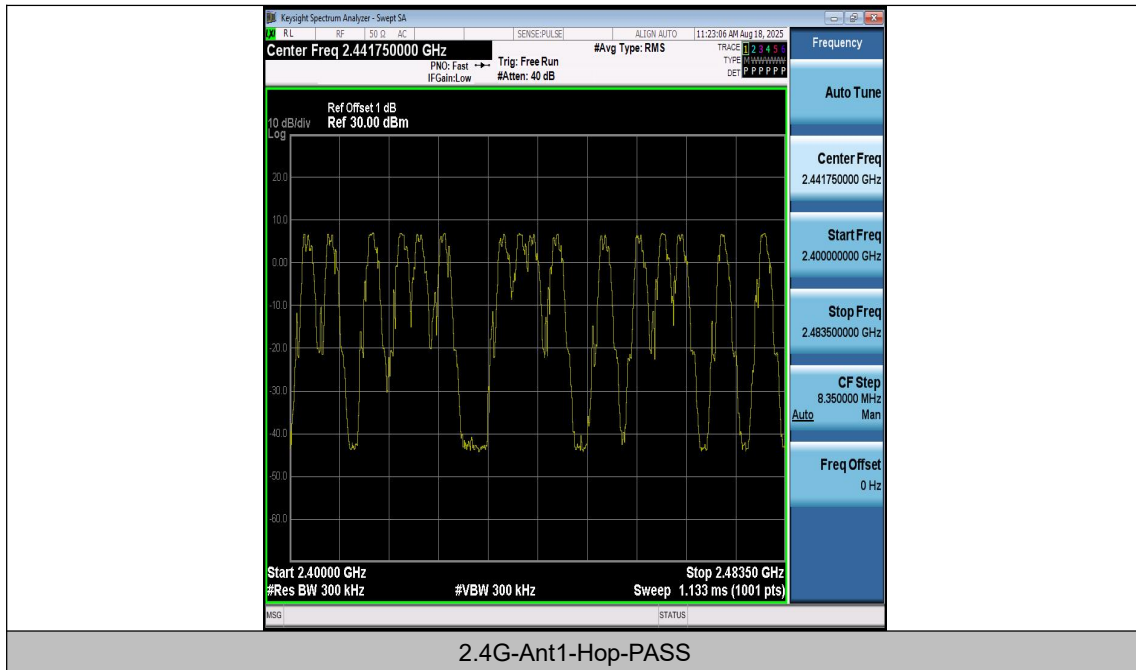
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Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS

Test Graphs



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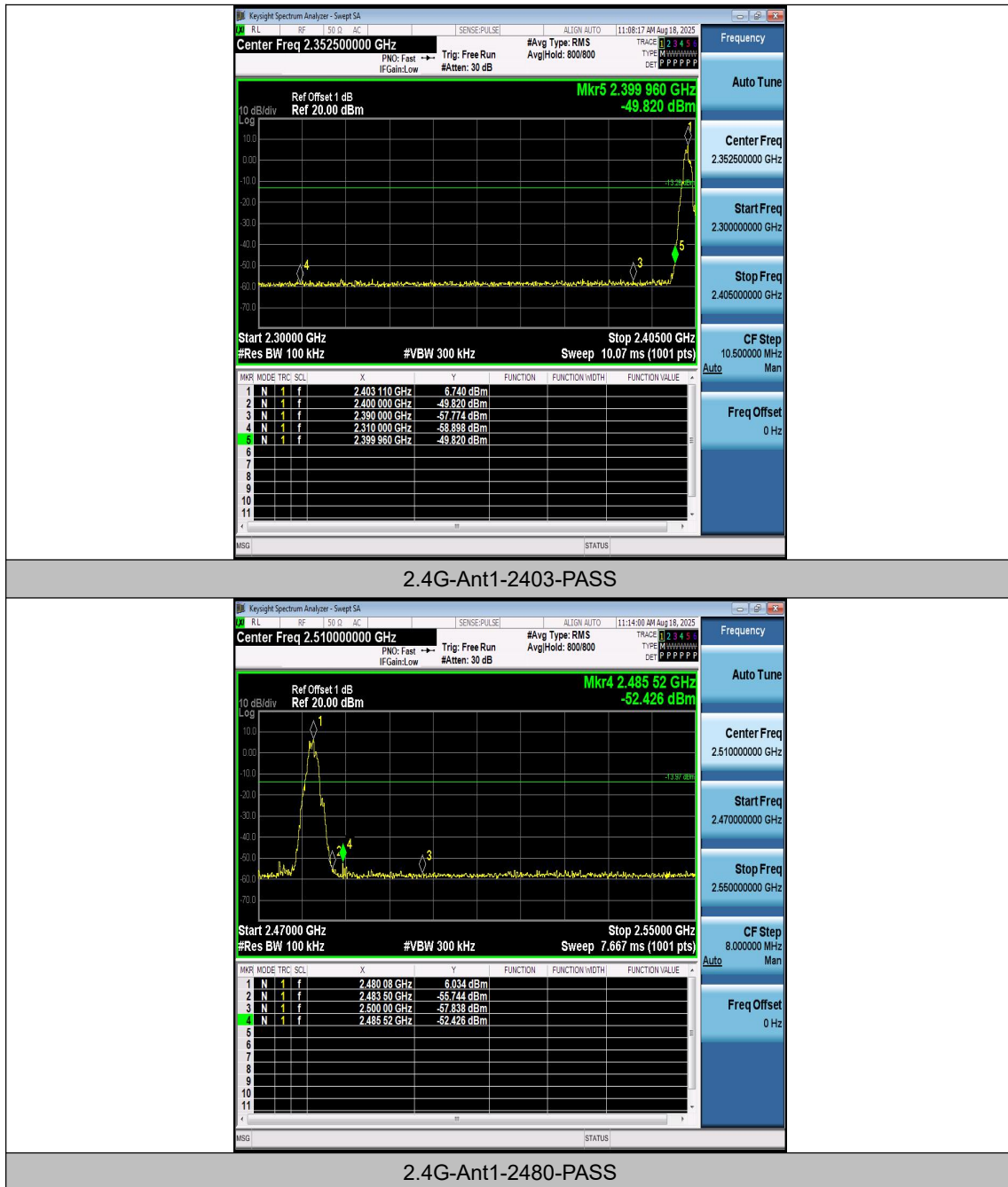
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	6.74	-49.82	≤ -13.26	PASS
2.4G	Ant1	High	2480	6.03	-52.43	≤ -13.97	PASS
2.4G	Ant1	Low	Hop_2403	5.36	-51.91	≤ -14.64	PASS
2.4G	Ant1	High	Hop_2480	6.08	-53.73	≤ -13.92	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.

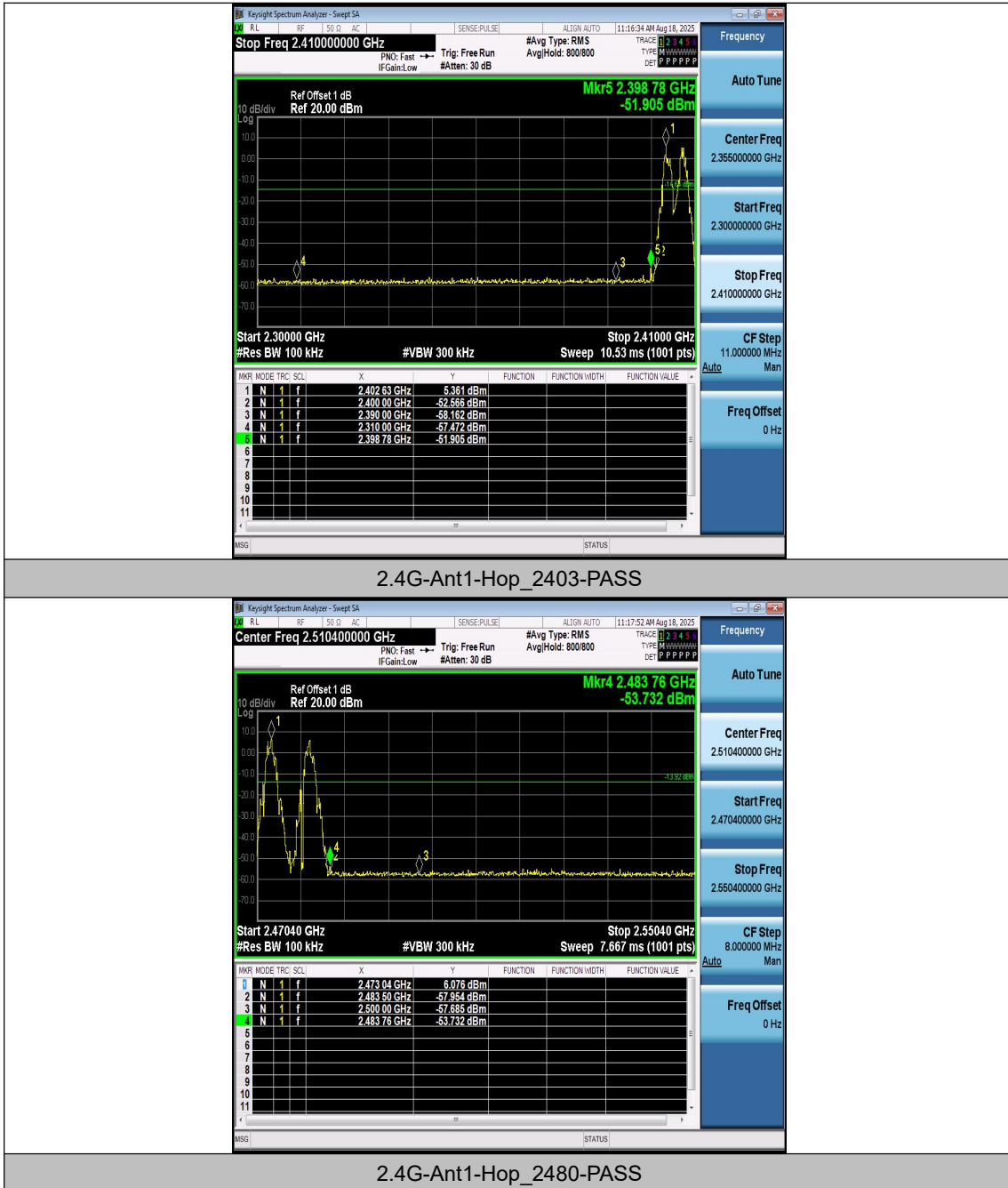
Test Graphs



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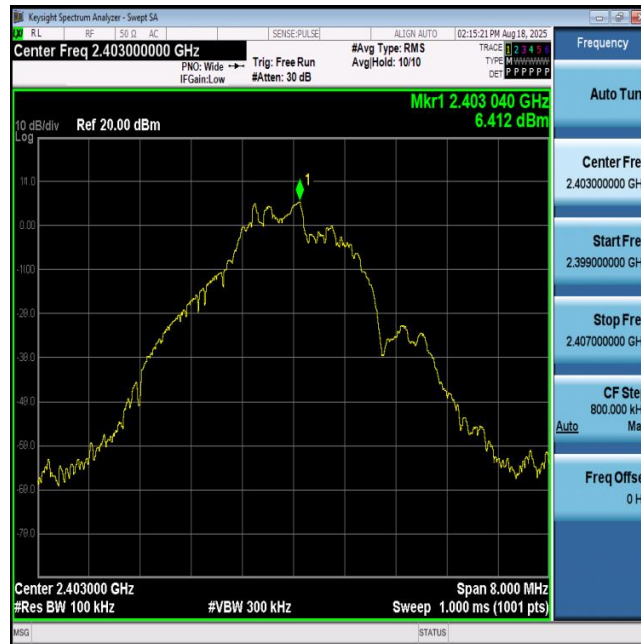
Appendix H: Conducted Spurious Emission

Test Result

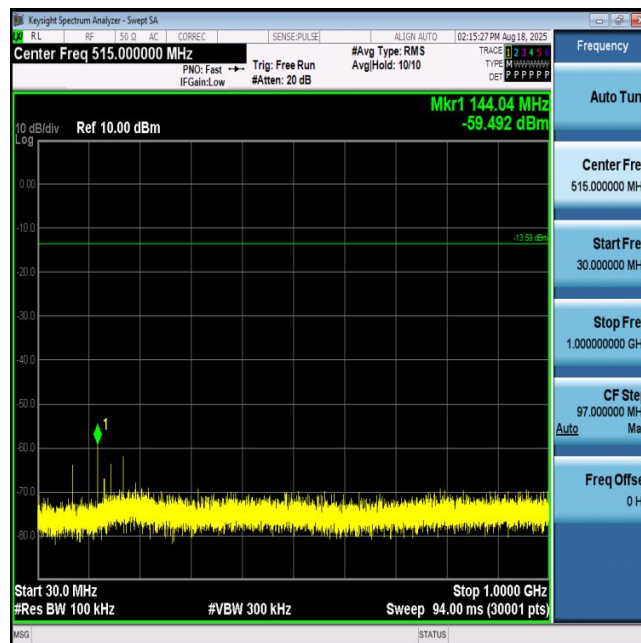
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	6.41	6.41	---	PASS
2.4G	Ant1	2403	30~1000	6.41	-59.49	≤-13.64	PASS
2.4G	Ant1	2403	1000~26500	6.41	-37.07	≤-13.64	PASS
2.4G	Ant1	2441	0~Reference	6.13	6.13	---	PASS
2.4G	Ant1	2441	30~1000	6.13	-63.95	≤-13.87	PASS
2.4G	Ant1	2441	1000~26500	6.13	-53.3	≤-13.87	PASS
2.4G	Ant1	2480	0~Reference	6.28	6.28	---	PASS
2.4G	Ant1	2480	30~1000	6.28	-61.49	≤-13.72	PASS
2.4G	Ant1	2480	1000~26500	6.28	-53.56	≤-13.72	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



2.4G-Ant1-2403-0~Reference-PASS

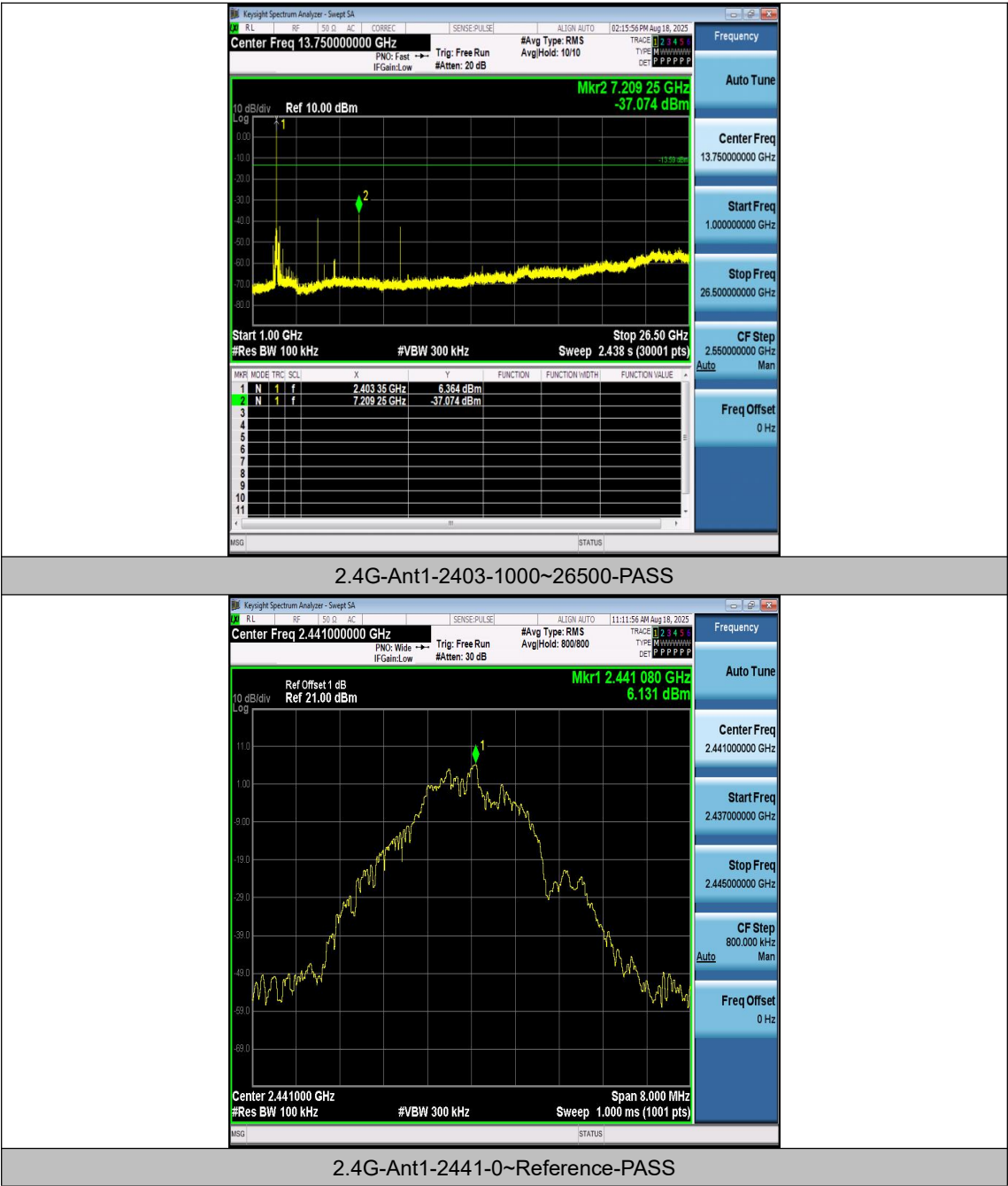


2.4G-Ant1-2403-30~1000-PASS

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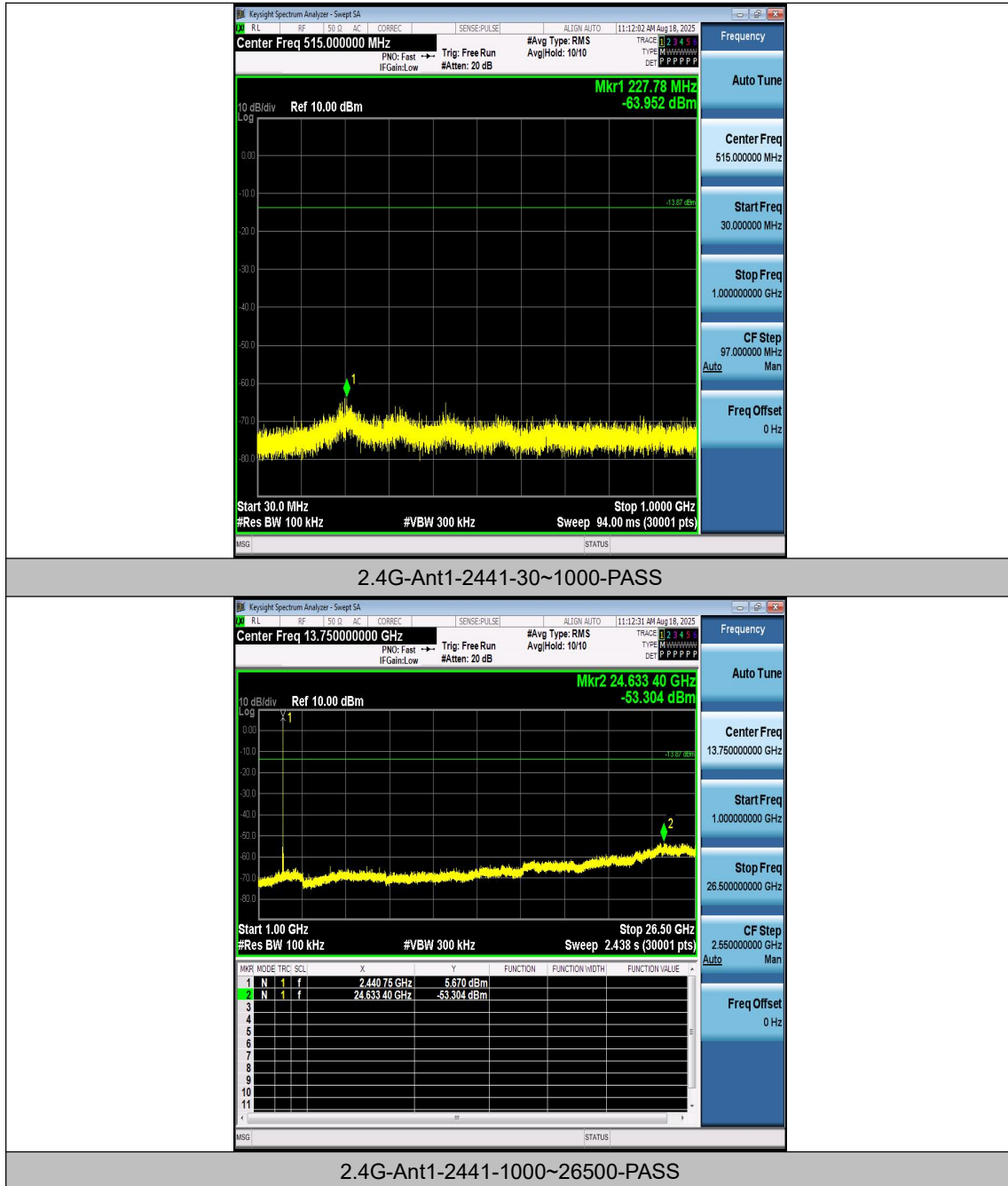
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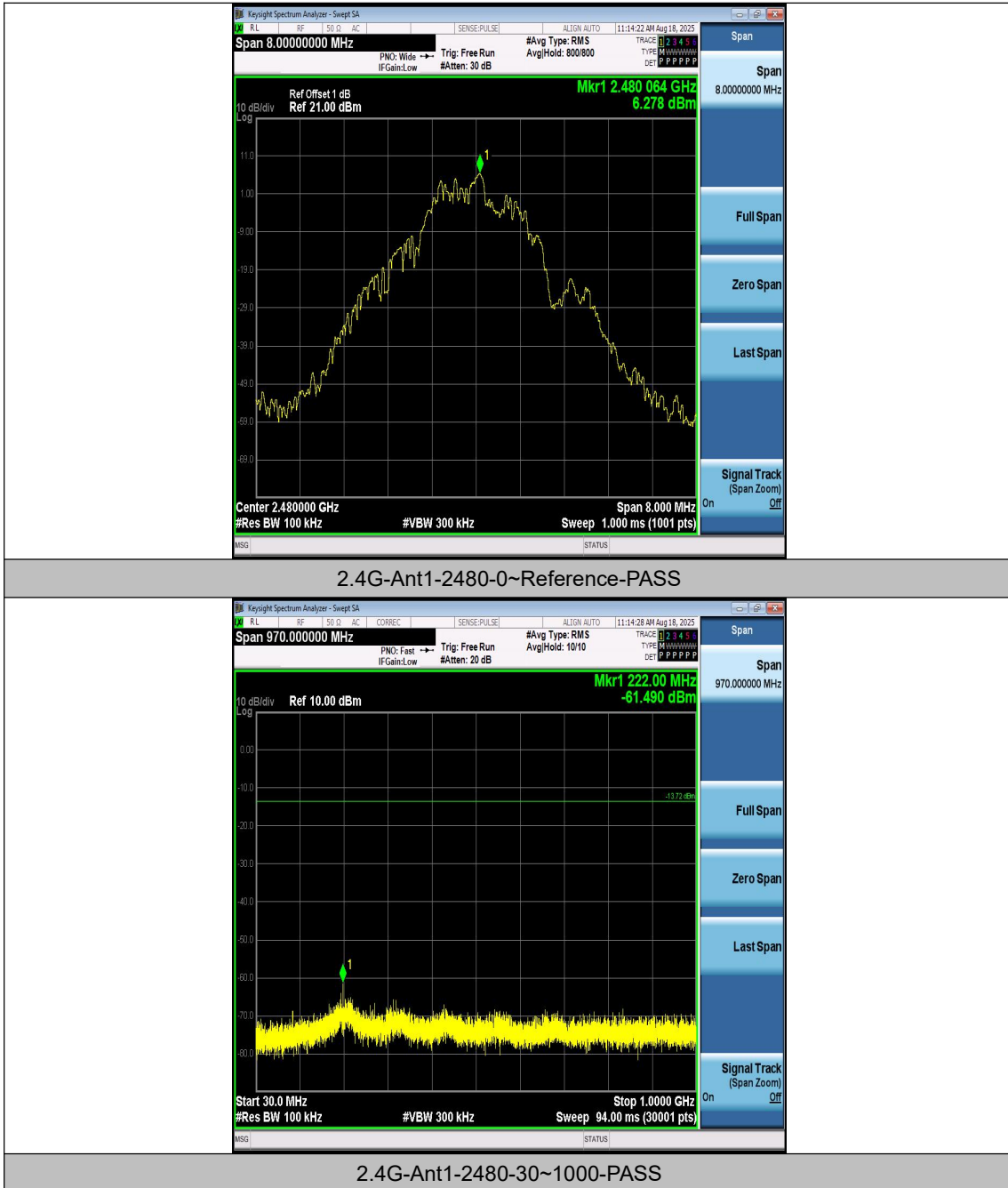
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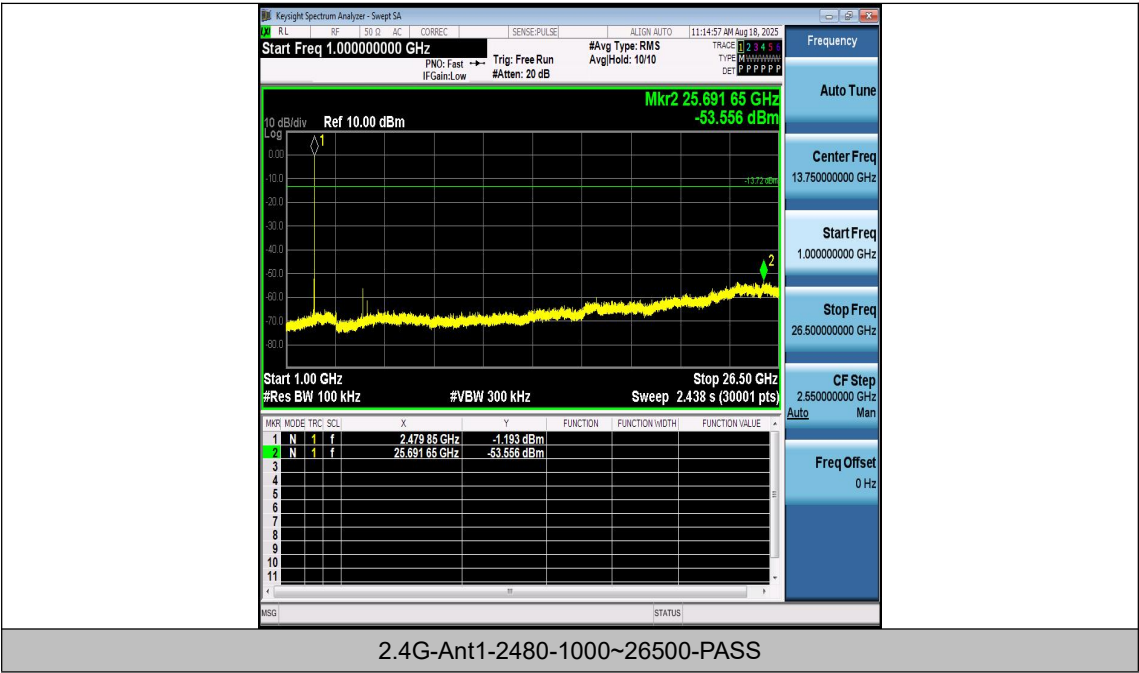
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.12	4.08	2.94	15.32
2.4G	Ant1	2441	0.12	3.94	3.05	15.16
2.4G	Ant1	2480	0.12	4.08	2.94	15.32

Test Graphs

