

Appendix Test Data

Report No.:	1812C50510712502	Test Sample No.:	1-2-2
Start Test Date:	2025-10-14	Finish Test Date:	2025-10-15
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.4°C	Relative Humidity:	64%
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	2.270	2401.895	2404.165	---	---
2.4G	Ant1	2441	2.270	2439.895	2442.165	---	---
2.4G	Ant1	2480	2.240	2478.905	2481.145	---	---

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	2.2440	2401.8640	2404.1080	---	---
2.4G	Ant1	2441	2.2184	2439.8877	2442.1061	---	---
2.4G	Ant1	2480	2.1966	2478.9010	2481.0976	---	---

Test Graphs



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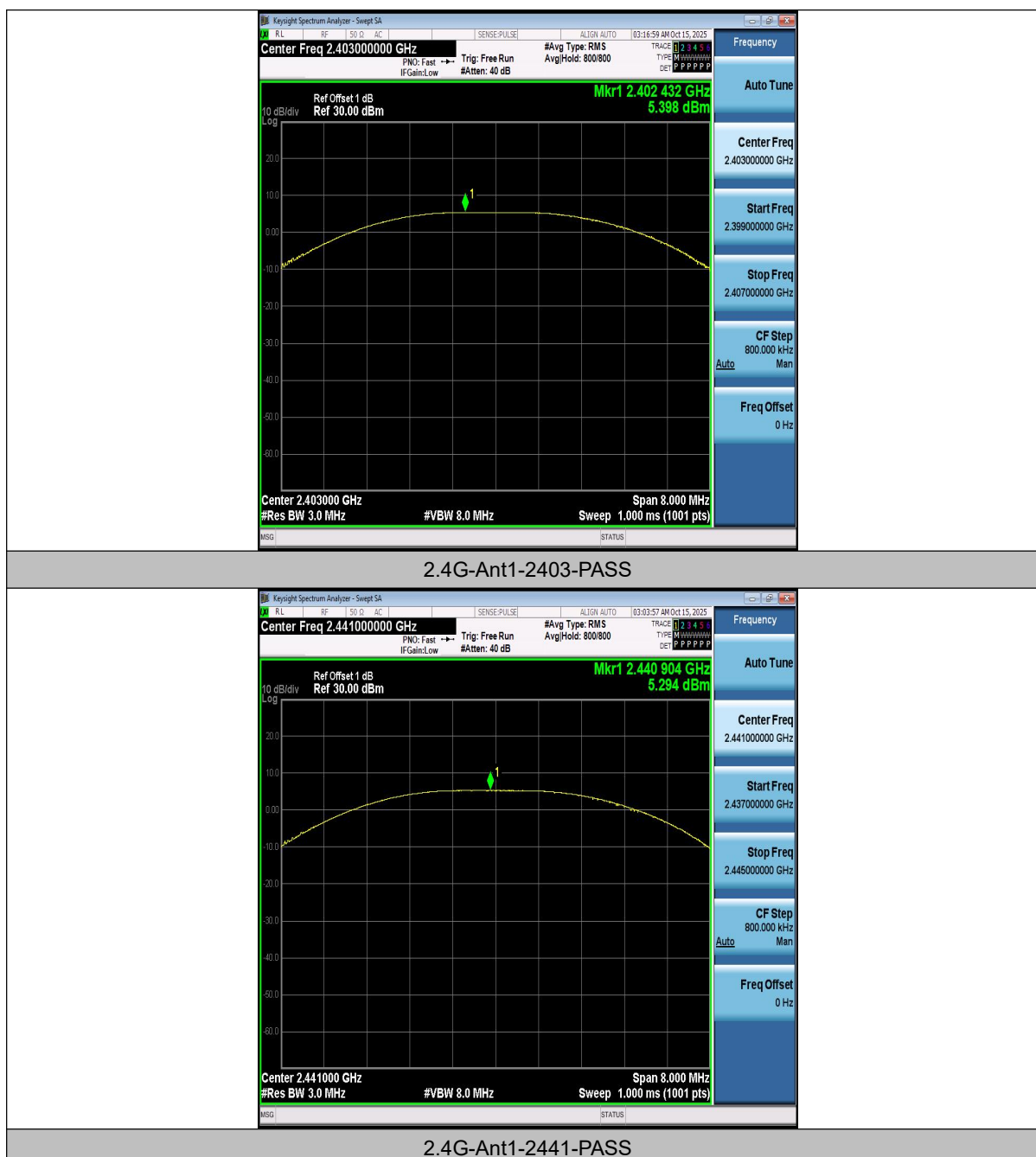
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	5.40	≤20.97	PASS
2.4G	Ant1	2441	5.29	≤20.97	PASS
2.4G	Ant1	2480	5.27	≤20.97	PASS

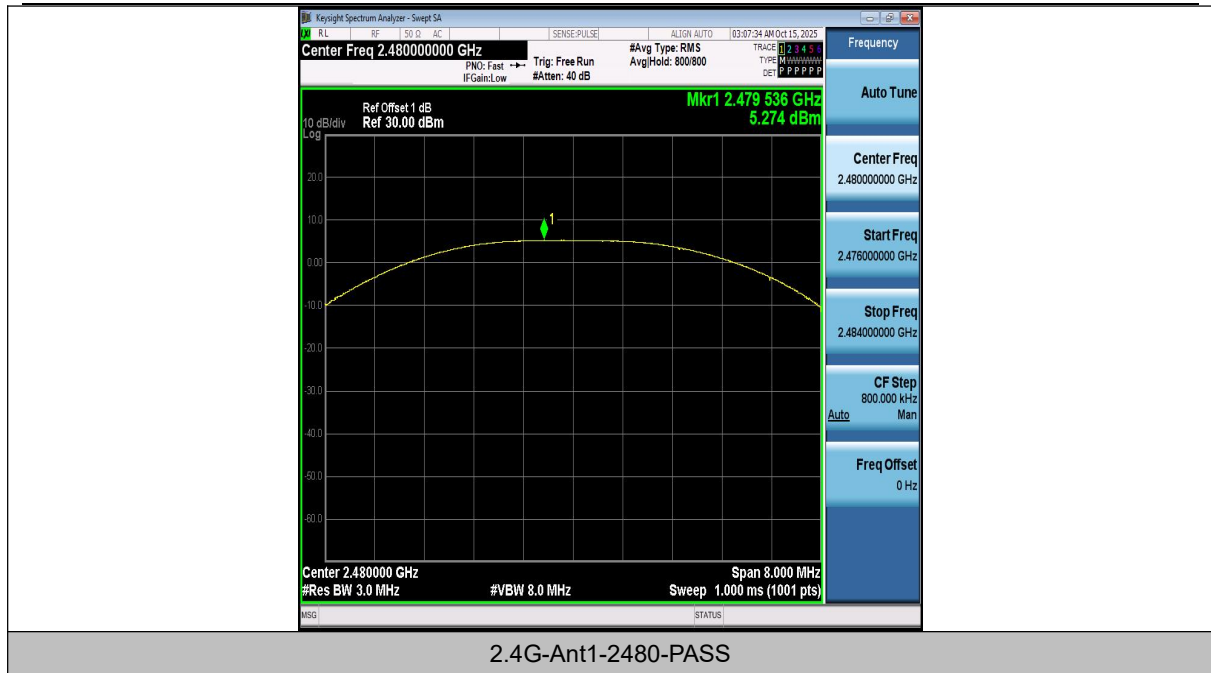
Test Graphs



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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	2.000	≥1.513	PASS

Keysight Spectrum Analyzer - Swept SA

RL RF SD AC SENSE-PULSE ALIGN AUTO 03:13:15 AM Oct 15, 2025

Center Freq 2.441500000 GHz #Avg Type: RMS #Attenu: 40 dB

PN0: Fast Trig: Free Run Avg/Hold: >100/100

IF Gain: Low

TRACE 0 3 4 5 6
TYPE 14 15 16 17 18 19
DET P P P P P P P

Ref Offset 1 dB
Ref 30.00 dBm

Δ Mkr1 2.000 MHz
0.014 dB

10 dB/div
Log

20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 2.441500 GHz Span 8.000 MHz
#Res BW 300 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.441500000 GHz

Start Freq
2.437500000 GHz

Stop Freq
2.445500000 GHz

CF Step
800.000 kHz
Auto Man

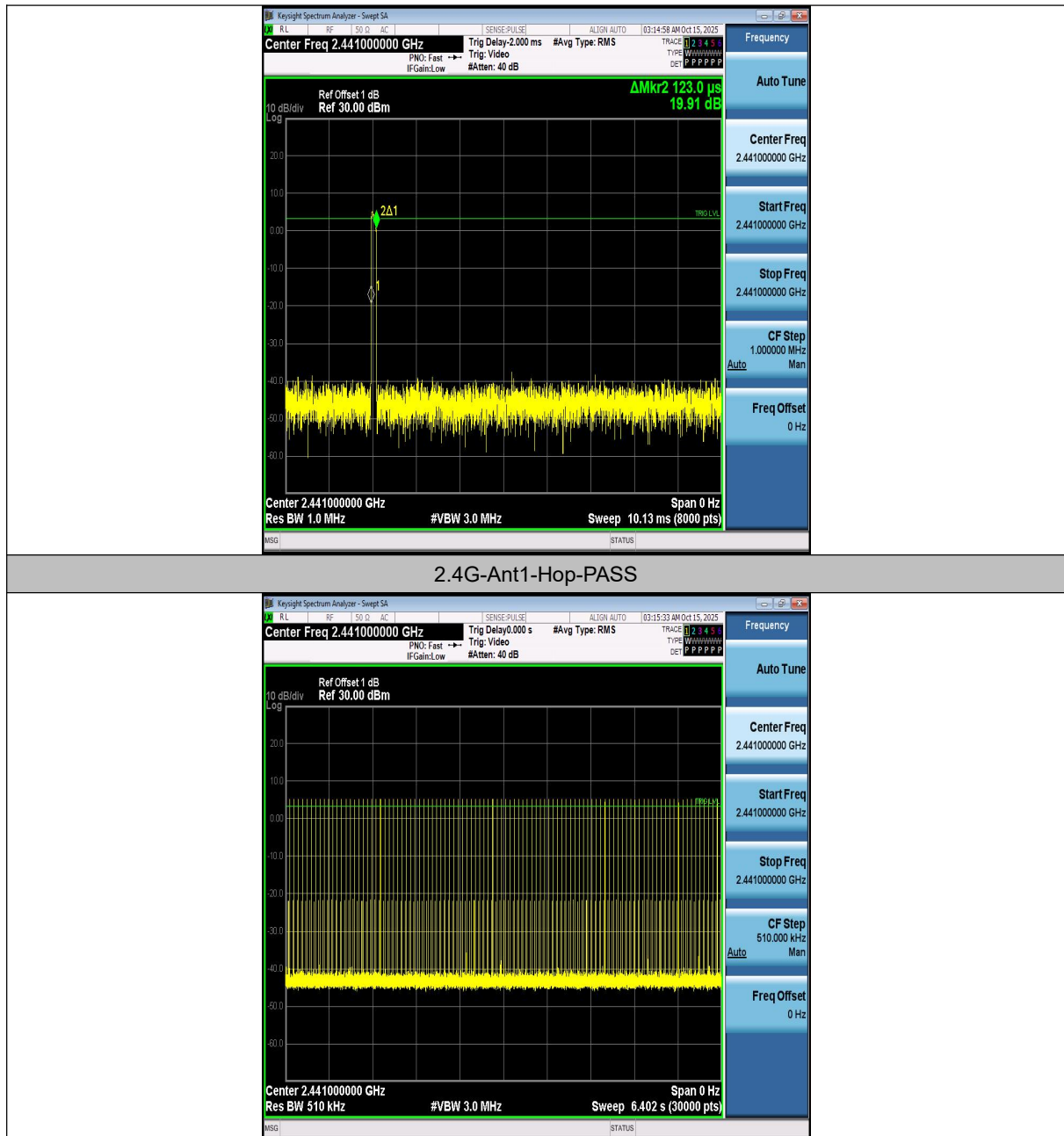
Freq Offset
0 Hz

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	0.123	101	0.012	≤0.4	PASS

Test Graphs



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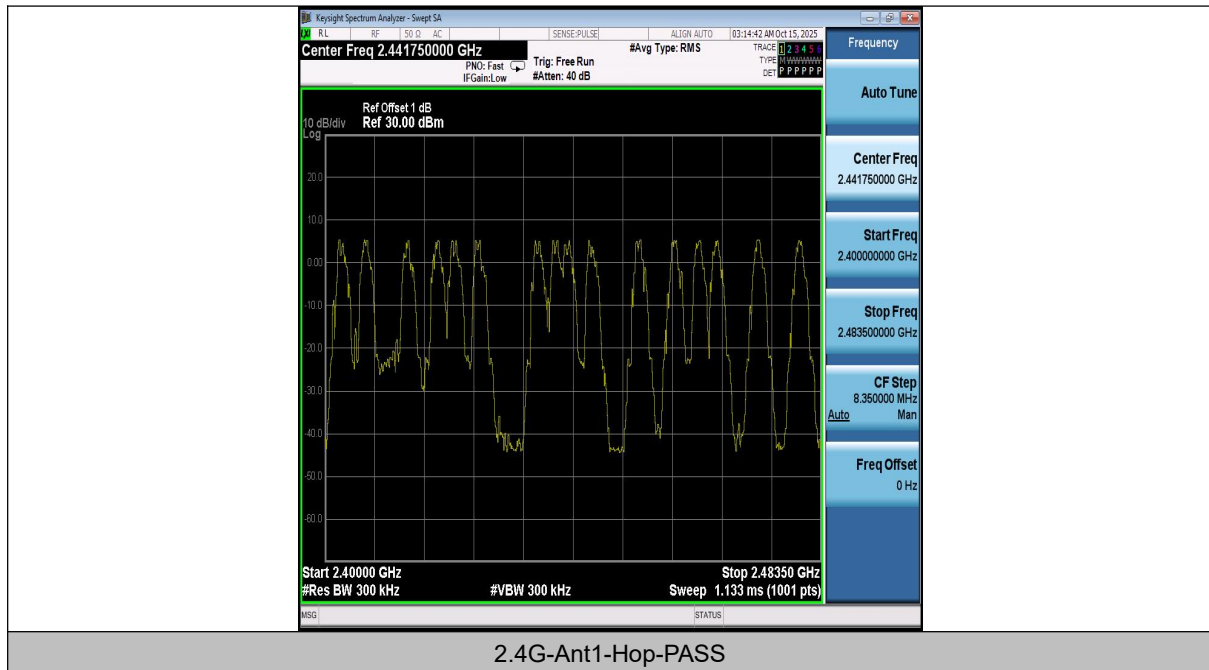
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Appendix F: Number of Hopping Channel

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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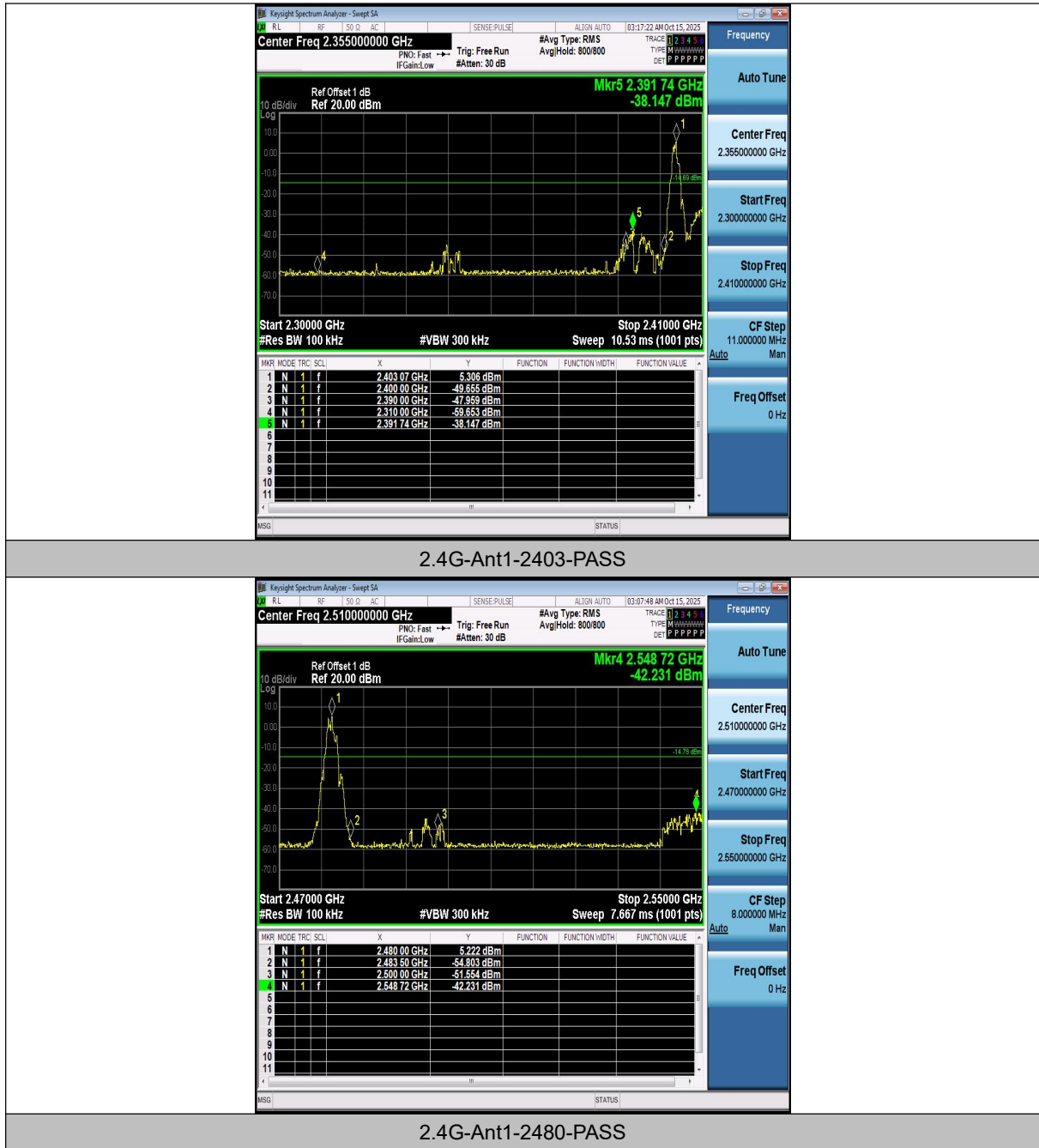
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	5.31	-38.15	≤-14.69	PASS
2.4G	Ant1	High	2480	5.22	-42.23	≤-14.78	PASS
2.4G	Ant1	Low	Hop	4.89	-39.84	≤-15.11	PASS
2.4G	Ant1	High	Hop	4.89	-39.93	≤-15.11	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.

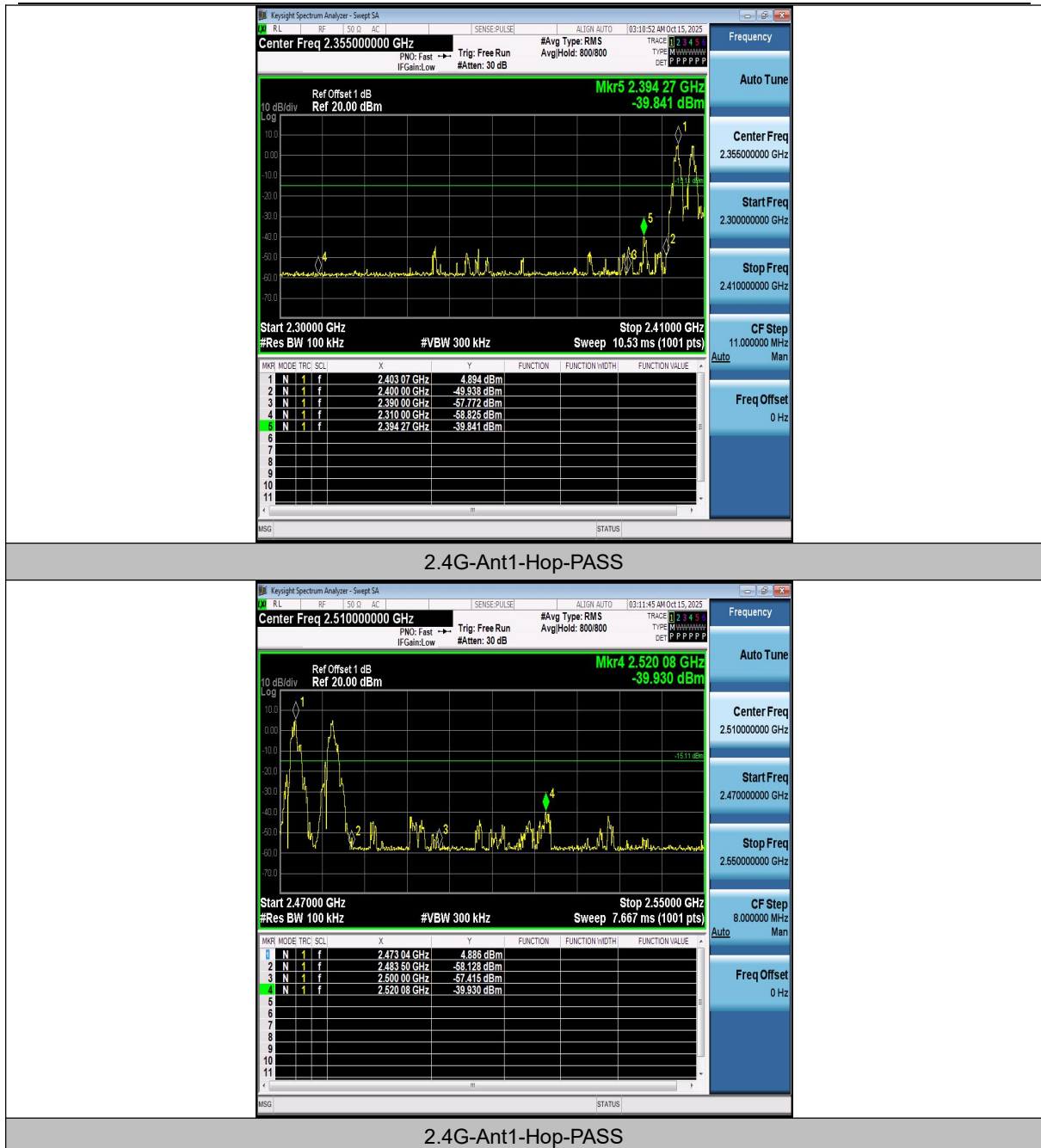
Test Graphs



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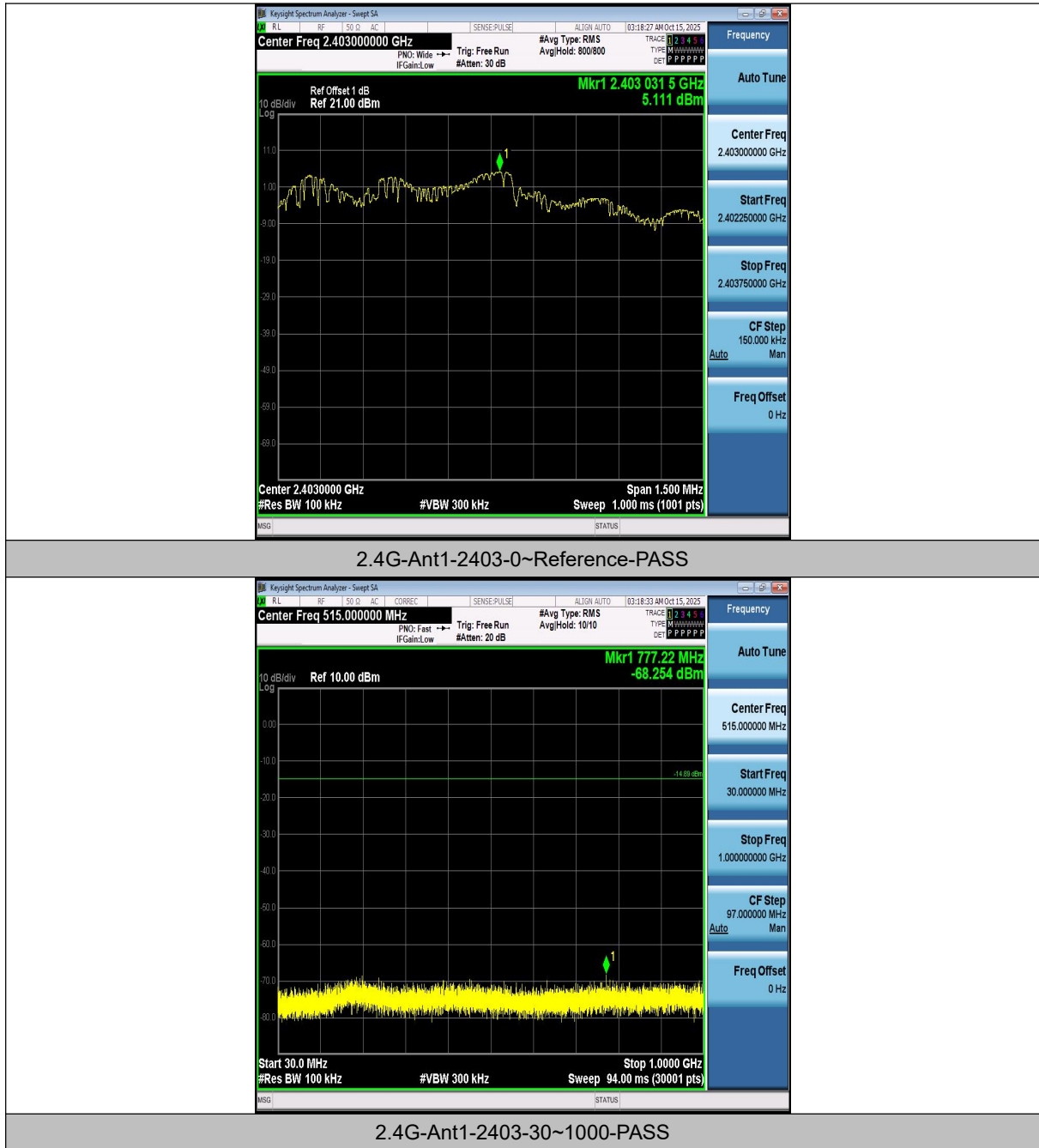
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	5.11	5.11	---	PASS
2.4G	Ant1	2403	30~1000	5.11	-68.25	≤-14.89	PASS
2.4G	Ant1	2403	1000~26500	5.11	-50.84	≤-14.89	PASS
2.4G	Ant1	2441	0~Reference	5.12	5.12	---	PASS
2.4G	Ant1	2441	30~1000	5.12	-68.47	≤-14.88	PASS
2.4G	Ant1	2441	1000~26500	5.12	-47.14	≤-14.88	PASS
2.4G	Ant1	2480	0~Reference	5.04	5.04	---	PASS
2.4G	Ant1	2480	30~1000	5.04	-68.81	≤-14.96	PASS
2.4G	Ant1	2480	1000~26500	5.04	-52.25	≤-14.96	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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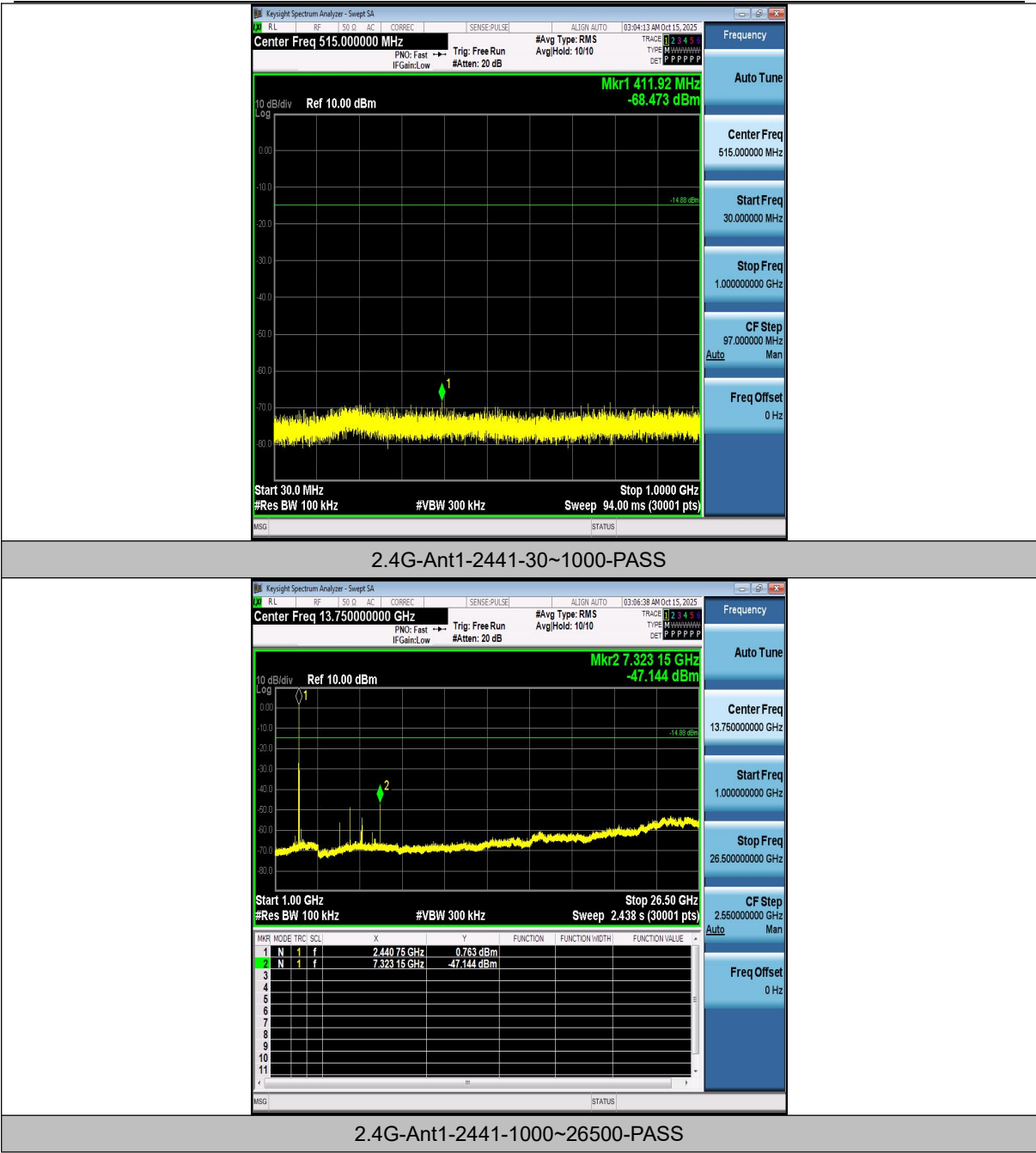
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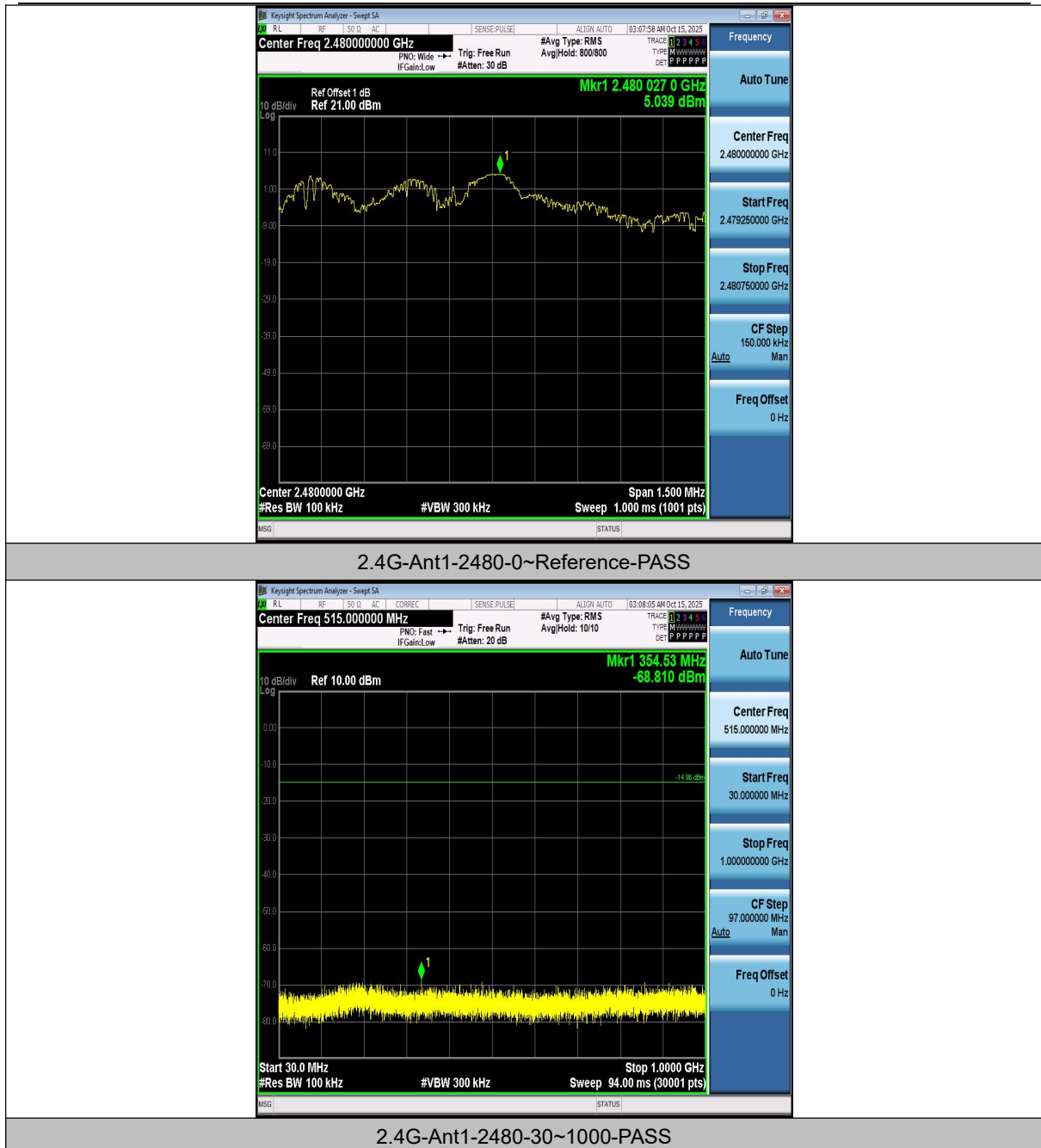


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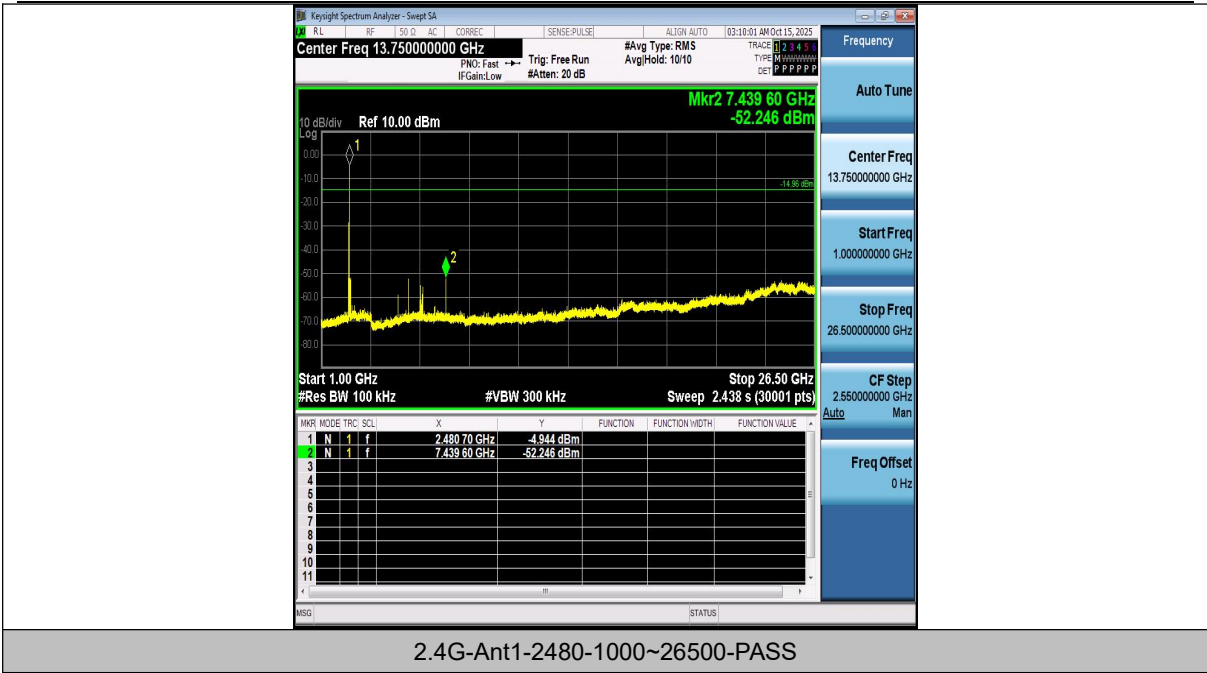




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Appendix I: Duty Cycle

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	4.08	2.94	15.32
2.4G	Ant1	2480	0.12	3.93	3.05	15.16

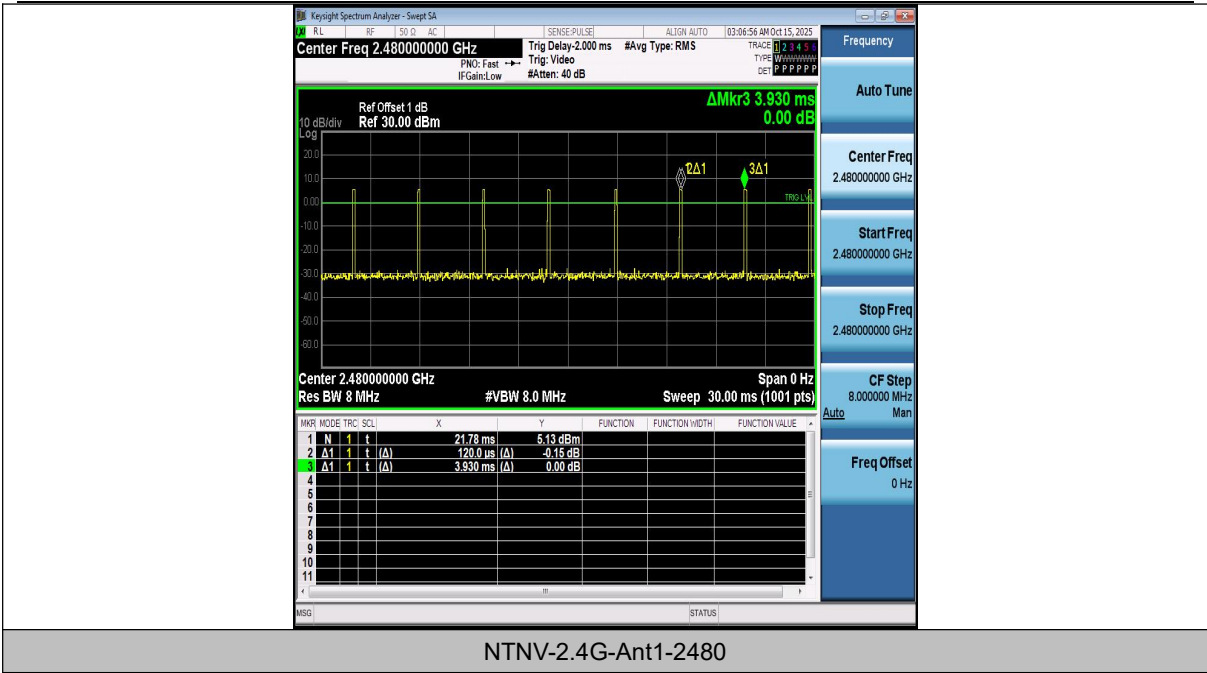
Test Graphs



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