

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Wireless Speaker

Trade Mark: Reebok

Test Model: RBKSPK

FCC ID: 2AL9B-RBKSPK

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.951	2401.568	2402.519	---	---
DH5	Ant1	2441	0.954	2440.568	2441.522	---	---
DH5	Ant1	2480	0.951	2479.565	2480.516	---	---
2DH5	Ant1	2402	1.272	2401.397	2402.669	---	---
2DH5	Ant1	2441	1.269	2440.406	2441.675	---	---
2DH5	Ant1	2480	1.314	2479.370	2480.684	---	---
3DH5	Ant1	2402	1.317	2401.376	2402.693	---	---
3DH5	Ant1	2441	1.287	2440.385	2441.672	---	---
3DH5	Ant1	2480	1.293	2479.388	2480.681	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs











Appendix B: Occupied Channel Bandwidth

Test Result

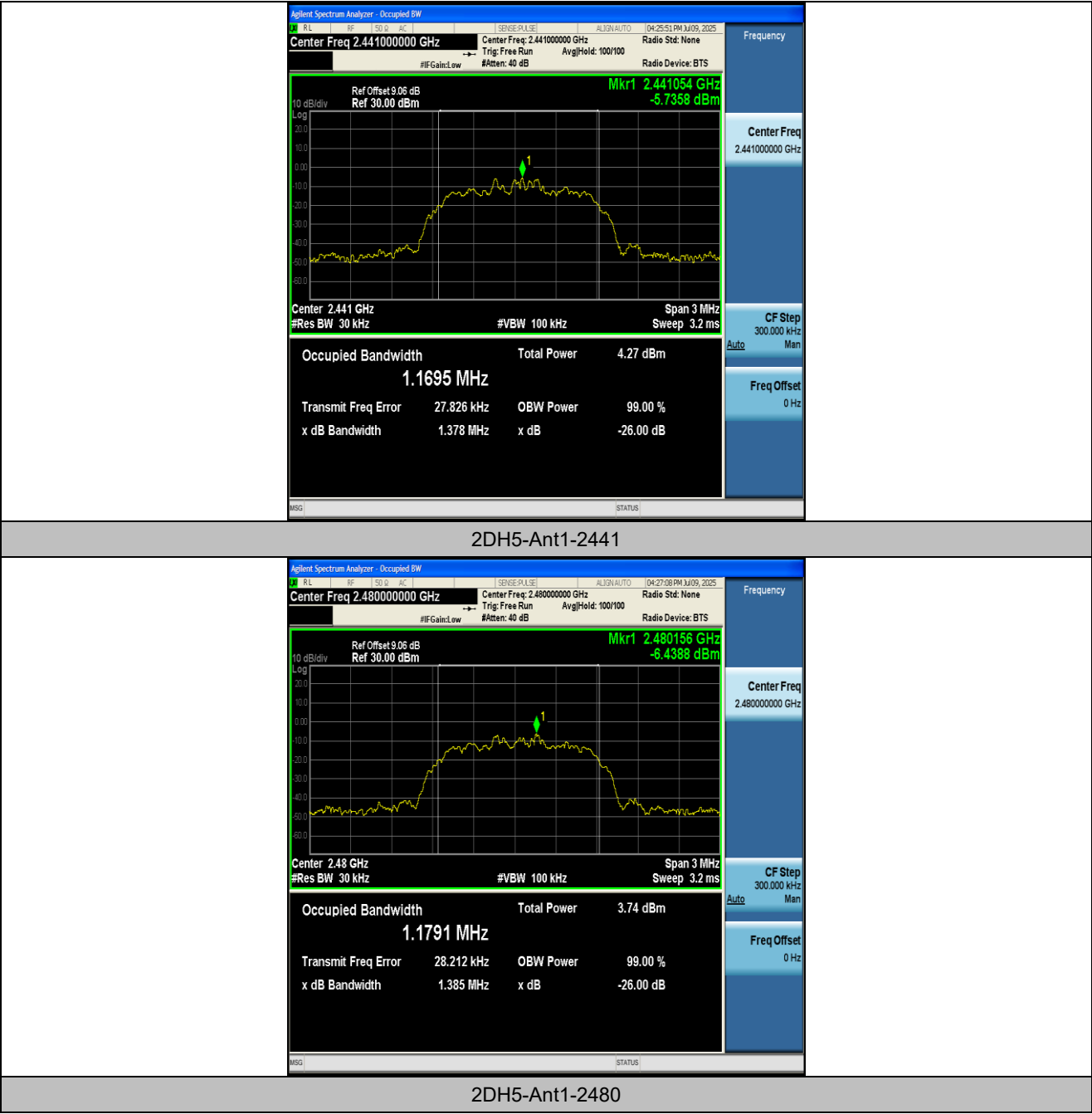
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86424	2401.5968	2402.4611	---	---
DH5	Ant1	2441	0.87238	2440.5959	2441.4682	---	---
DH5	Ant1	2480	0.87890	2479.5944	2480.4733	---	---
2DH5	Ant1	2402	1.1818	2401.4388	2402.6206	---	---
2DH5	Ant1	2441	1.1695	2440.4431	2441.6126	---	---
2DH5	Ant1	2480	1.1791	2479.4387	2480.6178	---	---
3DH5	Ant1	2402	1.2027	2401.4297	2402.6324	---	---
3DH5	Ant1	2441	1.1953	2440.4334	2441.6287	---	---
3DH5	Ant1	2480	1.1740	2479.4475	2480.6215	---	---

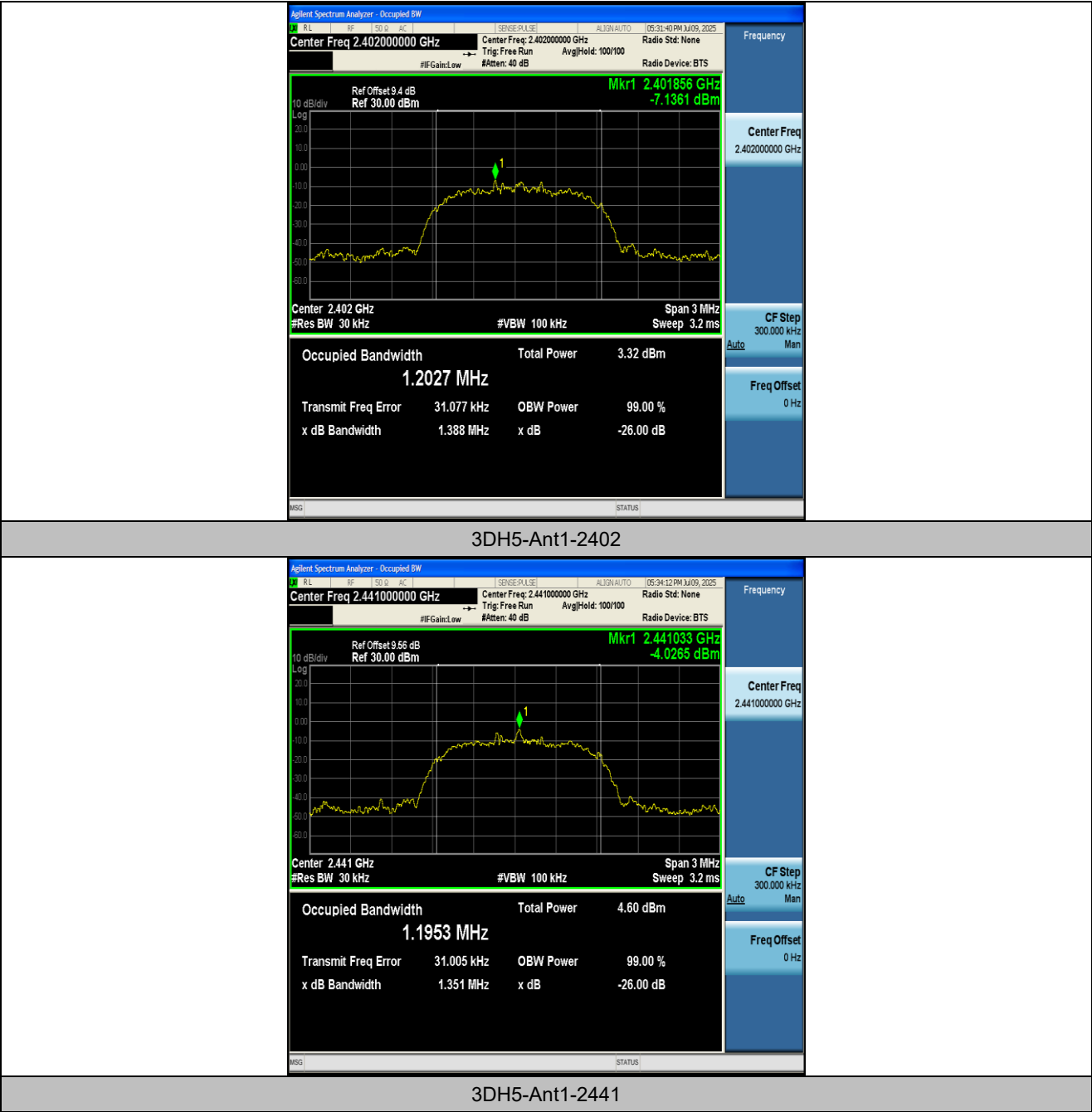
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

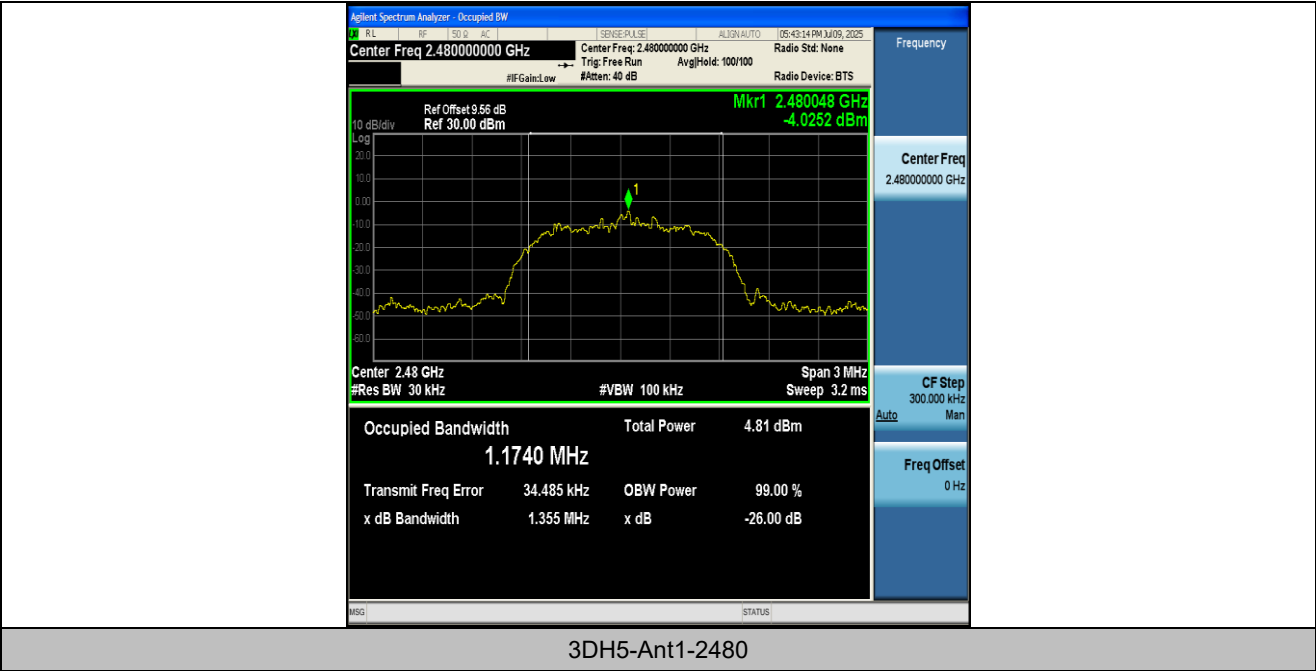
Test Graphs











3DH5-Ant1-2480

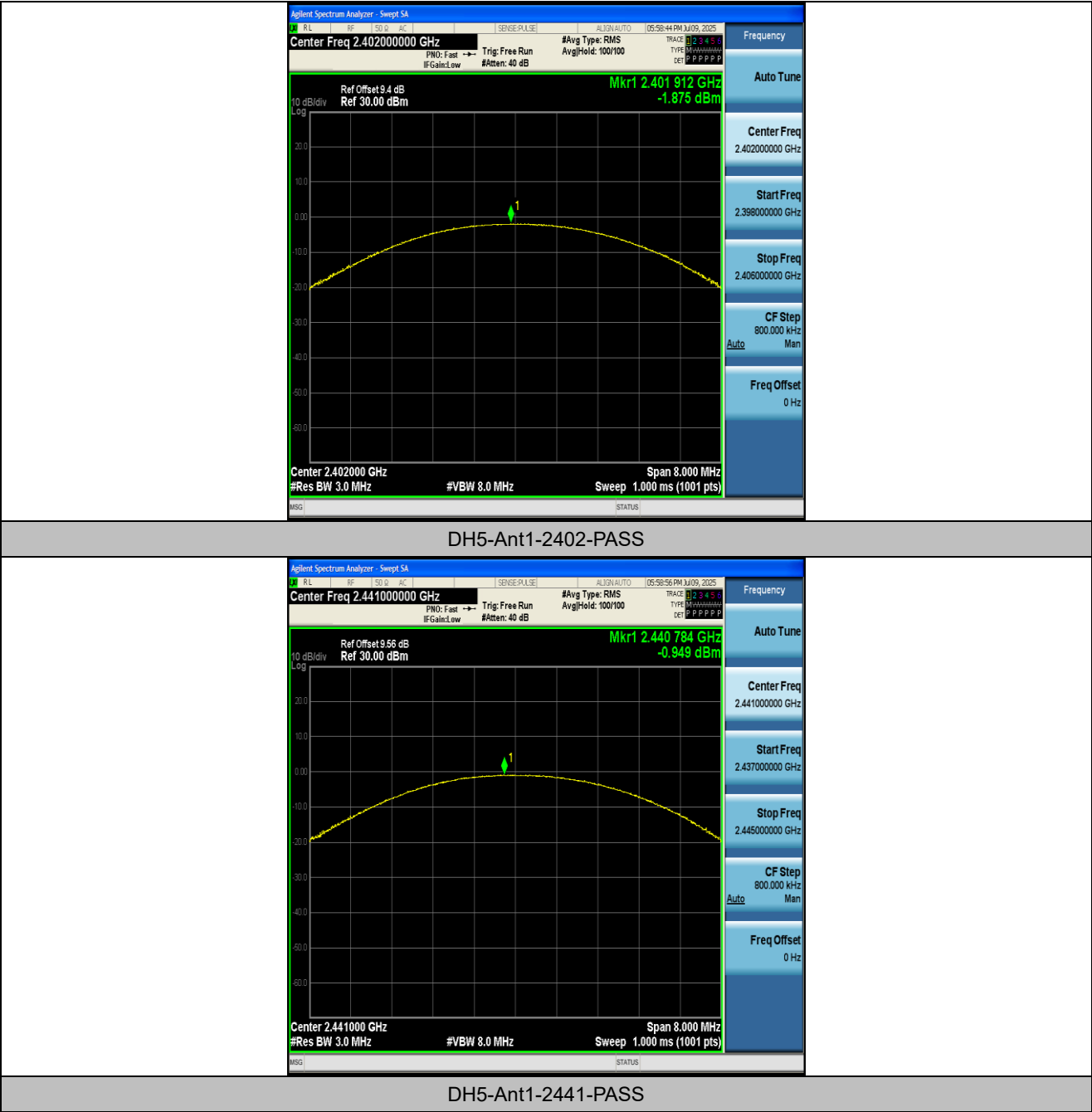
Appendix C: Maximum peak conducted output power

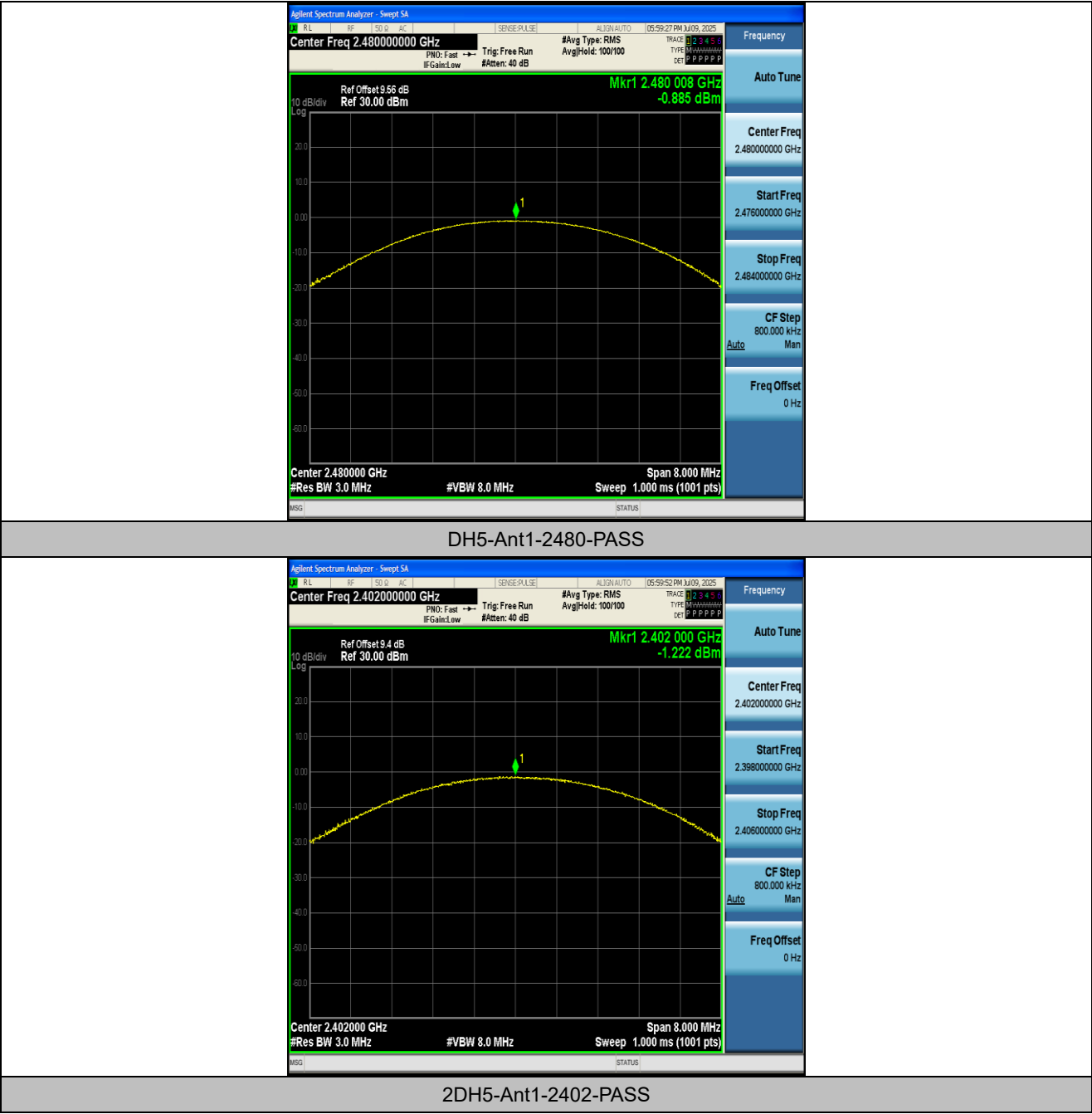
Test Result

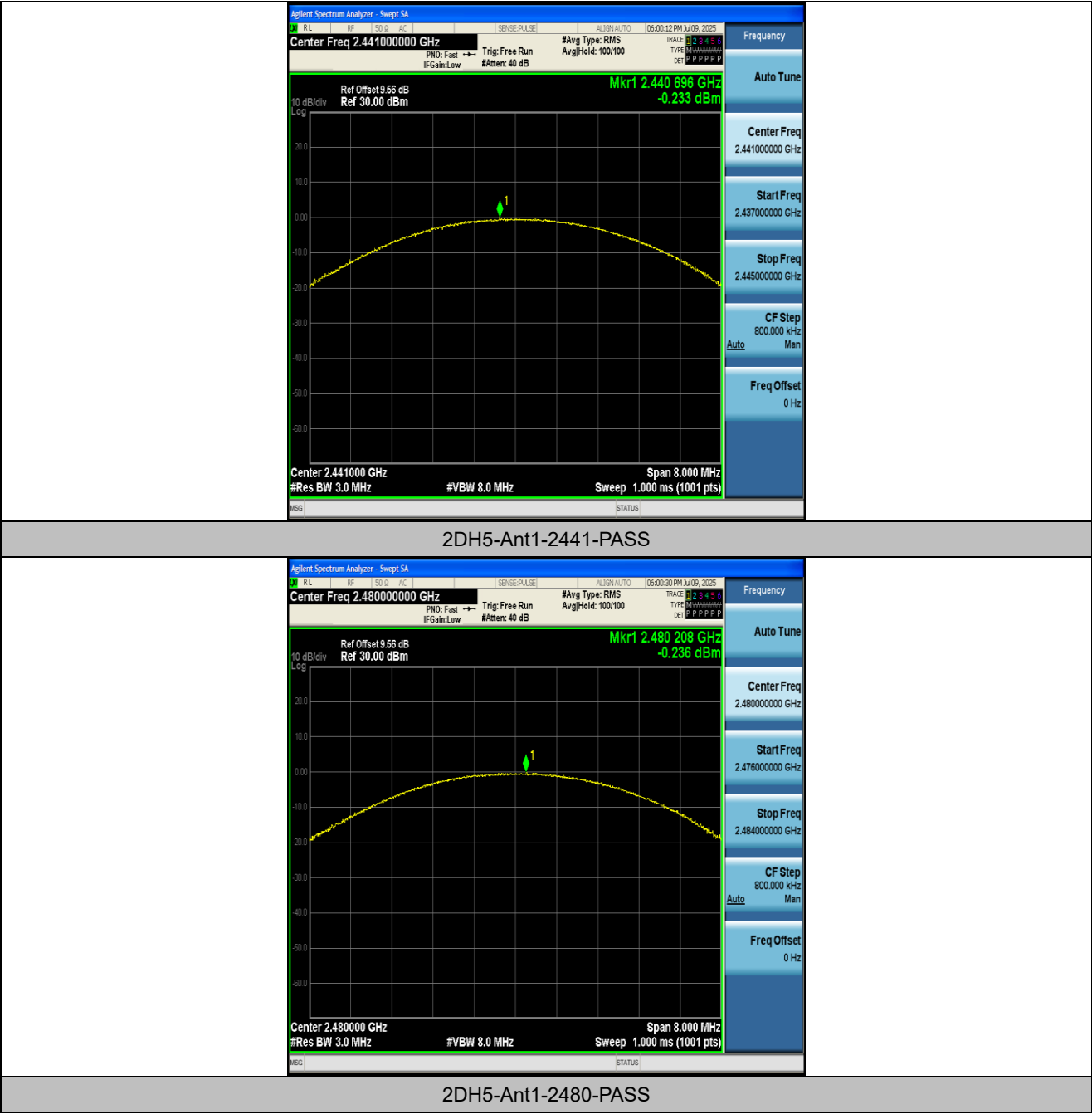
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.88	≤30	PASS
DH5	Ant1	2441	-0.95	≤30	PASS
DH5	Ant1	2480	-0.89	≤30	PASS
2DH5	Ant1	2402	-1.22	≤20.97	PASS
2DH5	Ant1	2441	-0.23	≤20.97	PASS
2DH5	Ant1	2480	-0.24	≤20.97	PASS
3DH5	Ant1	2402	-0.54	≤20.97	PASS
3DH5	Ant1	2441	0.31	≤20.97	PASS
3DH5	Ant1	2480	0.36	≤20.97	PASS

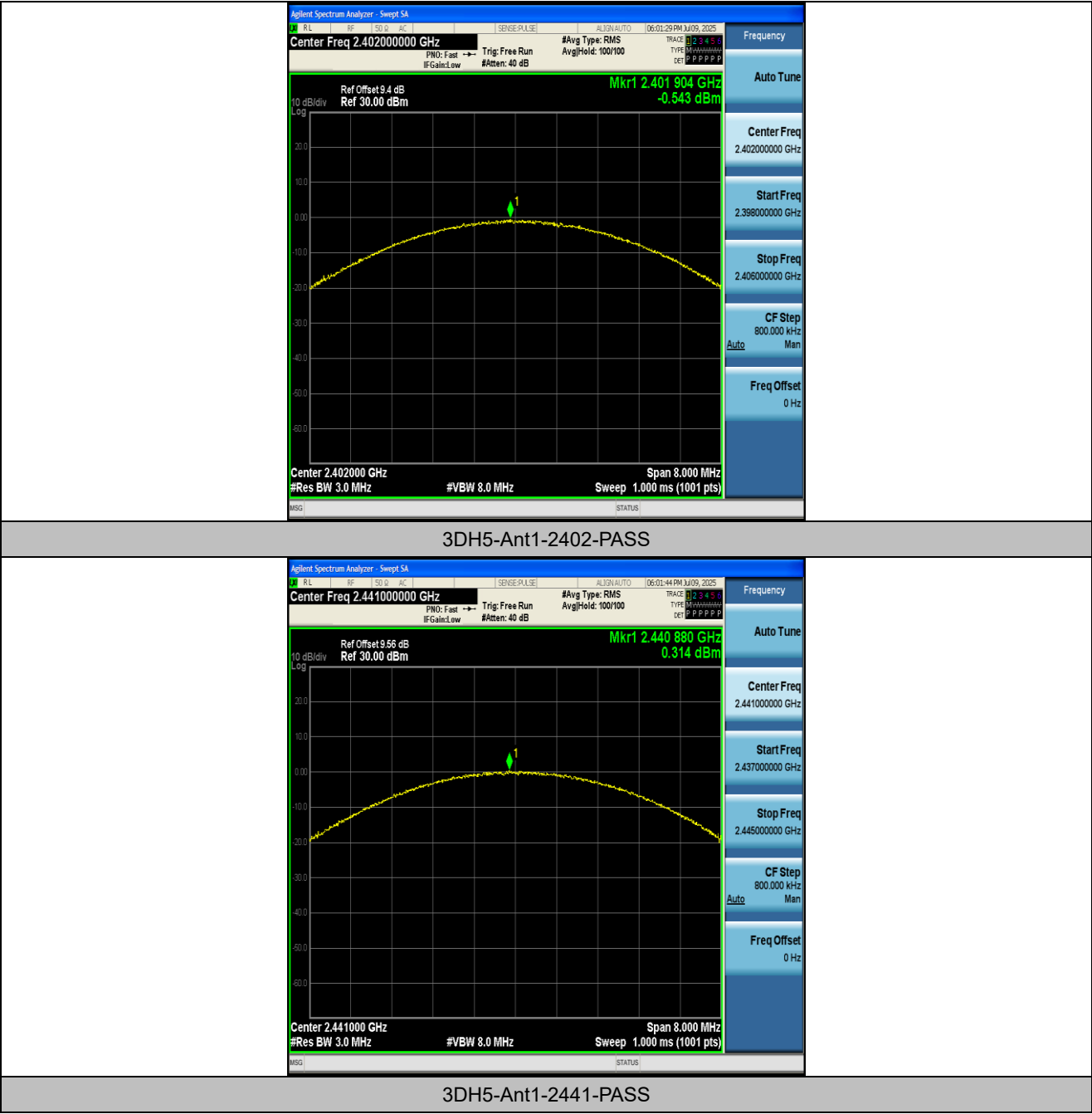
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

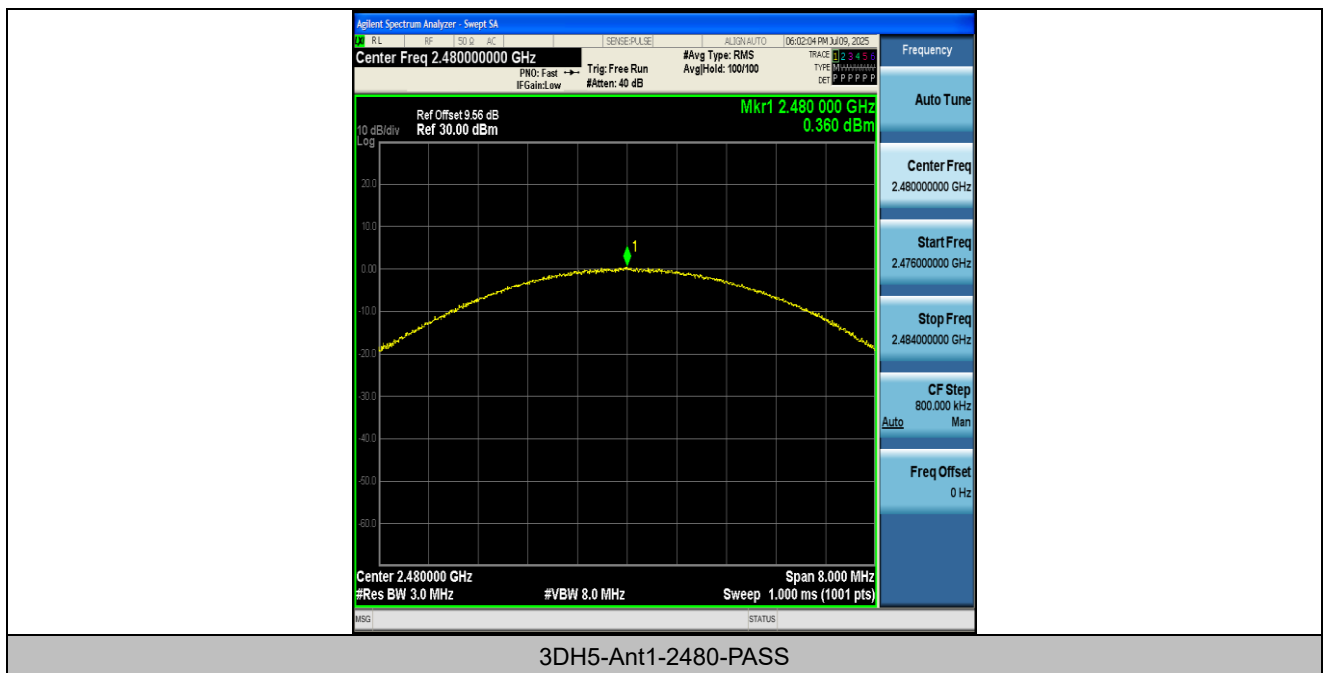
Test Graphs











Appendix D: Carrier frequency separation

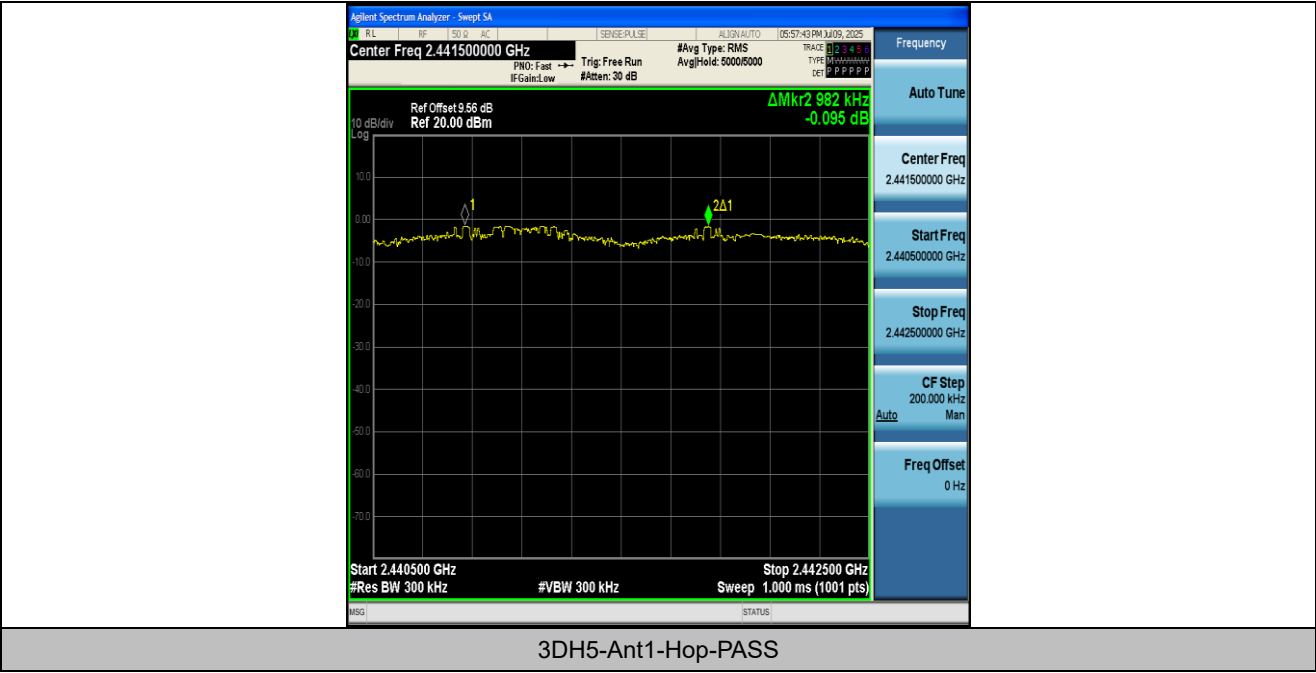
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.954	PASS
2DH5	Ant1	Hop	1	≥ 0.876	PASS
3DH5	Ant1	Hop	0.982	≥ 0.878	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





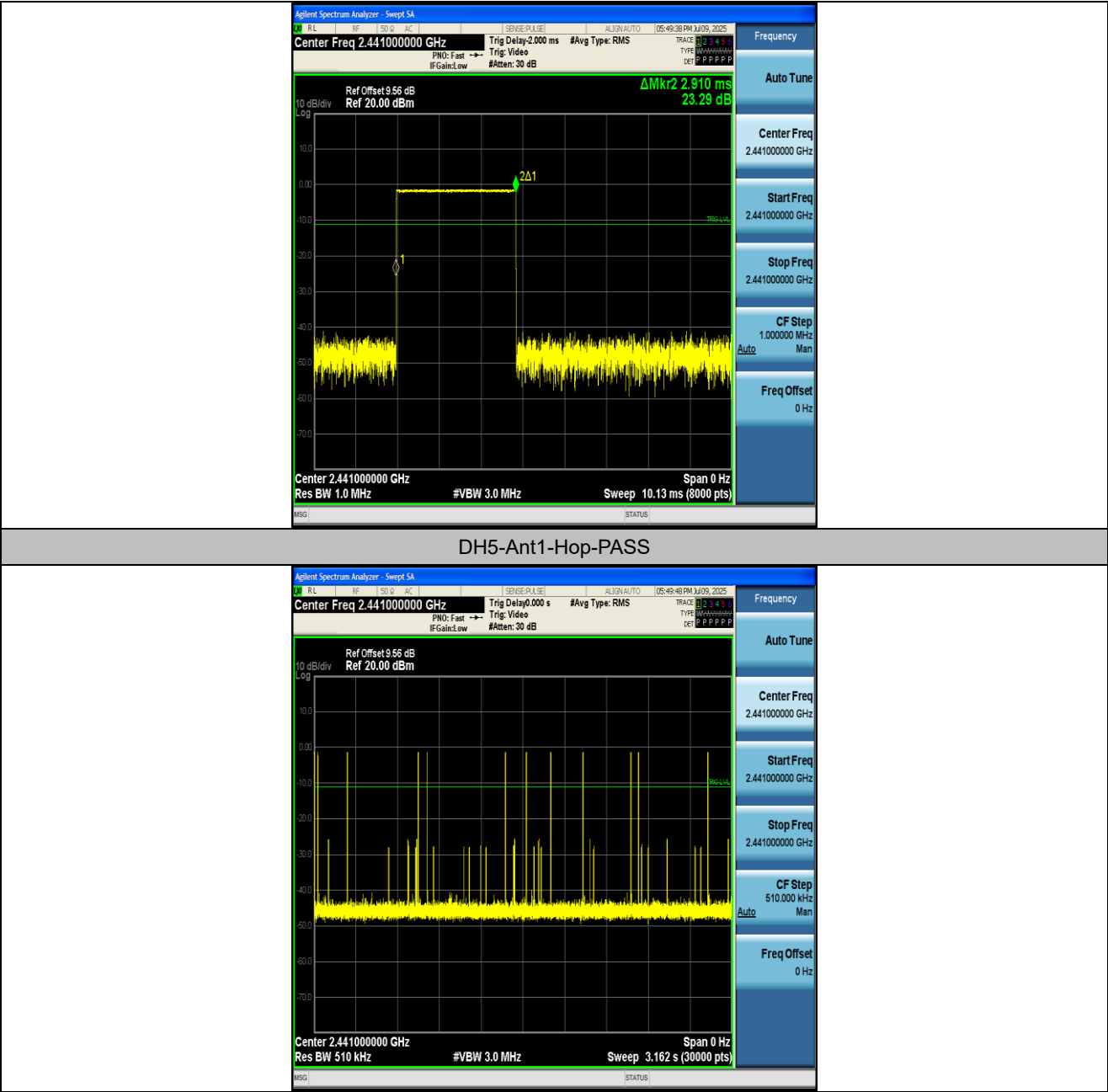
Appendix E: Time of occupancy

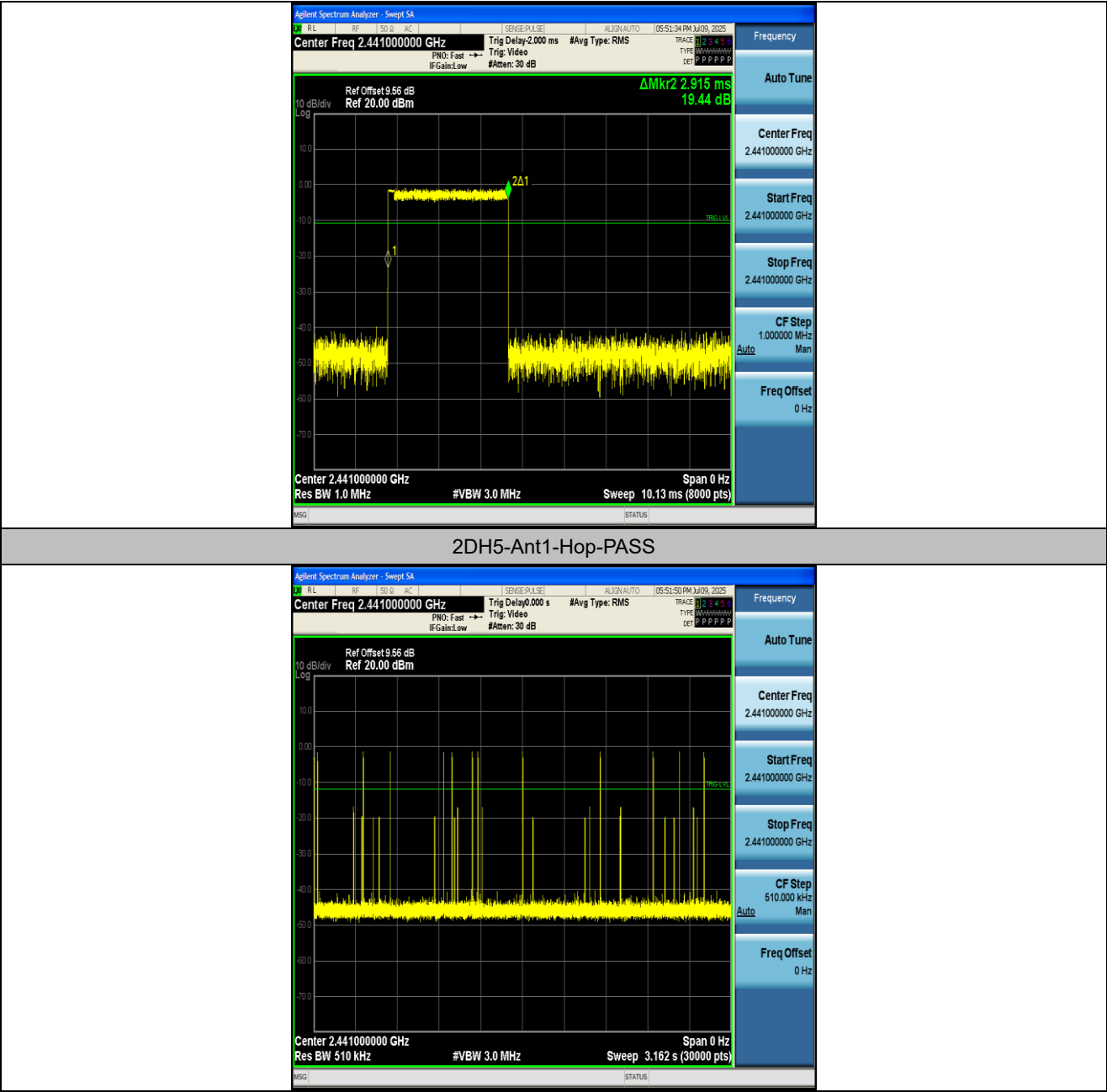
Test Result

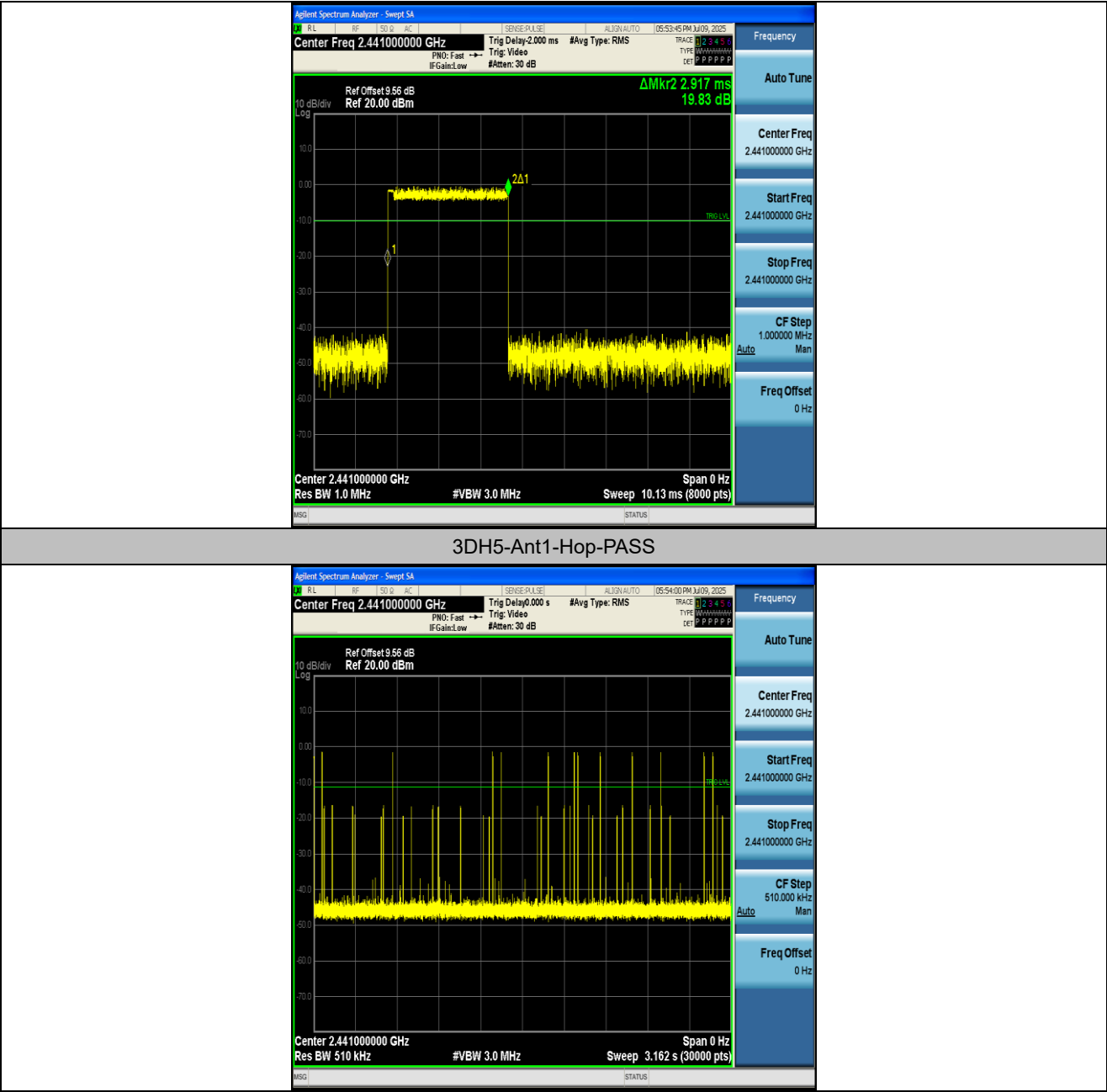
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.910	120	0.349	≤0.4	PASS
2DH5	Ant1	Hop	2.915	130	0.379	≤0.4	PASS
3DH5	Ant1	Hop	2.917	130	0.379	≤0.4	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs







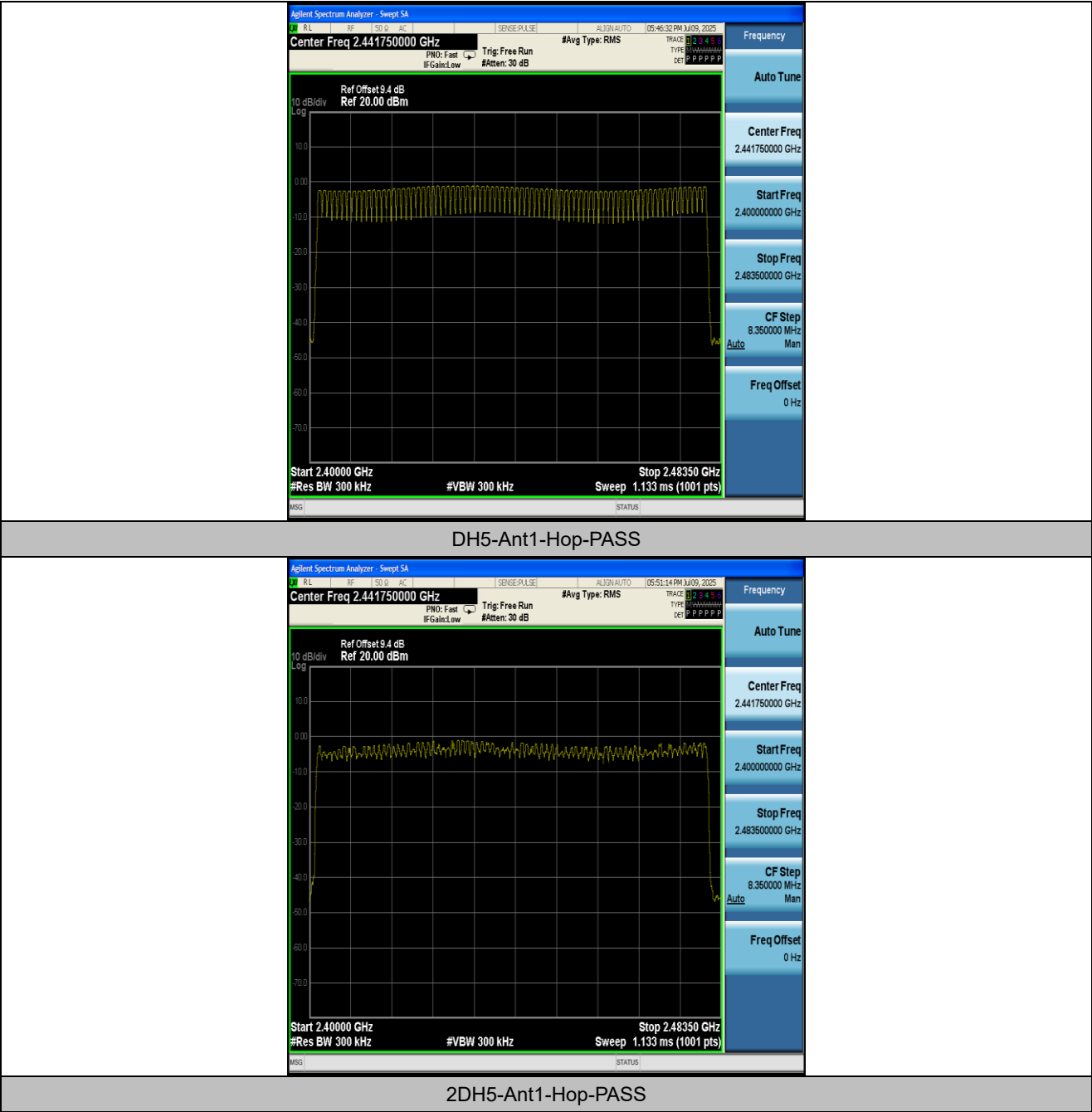
Appendix F: Number of hopping channels

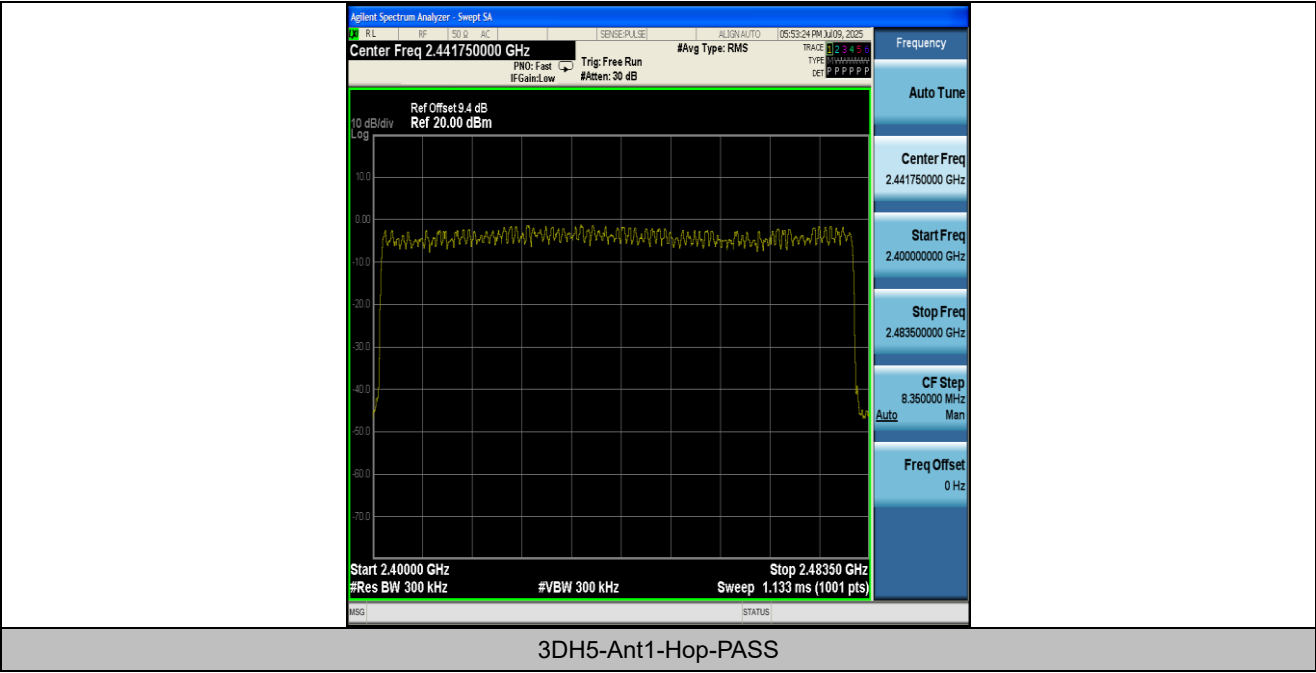
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





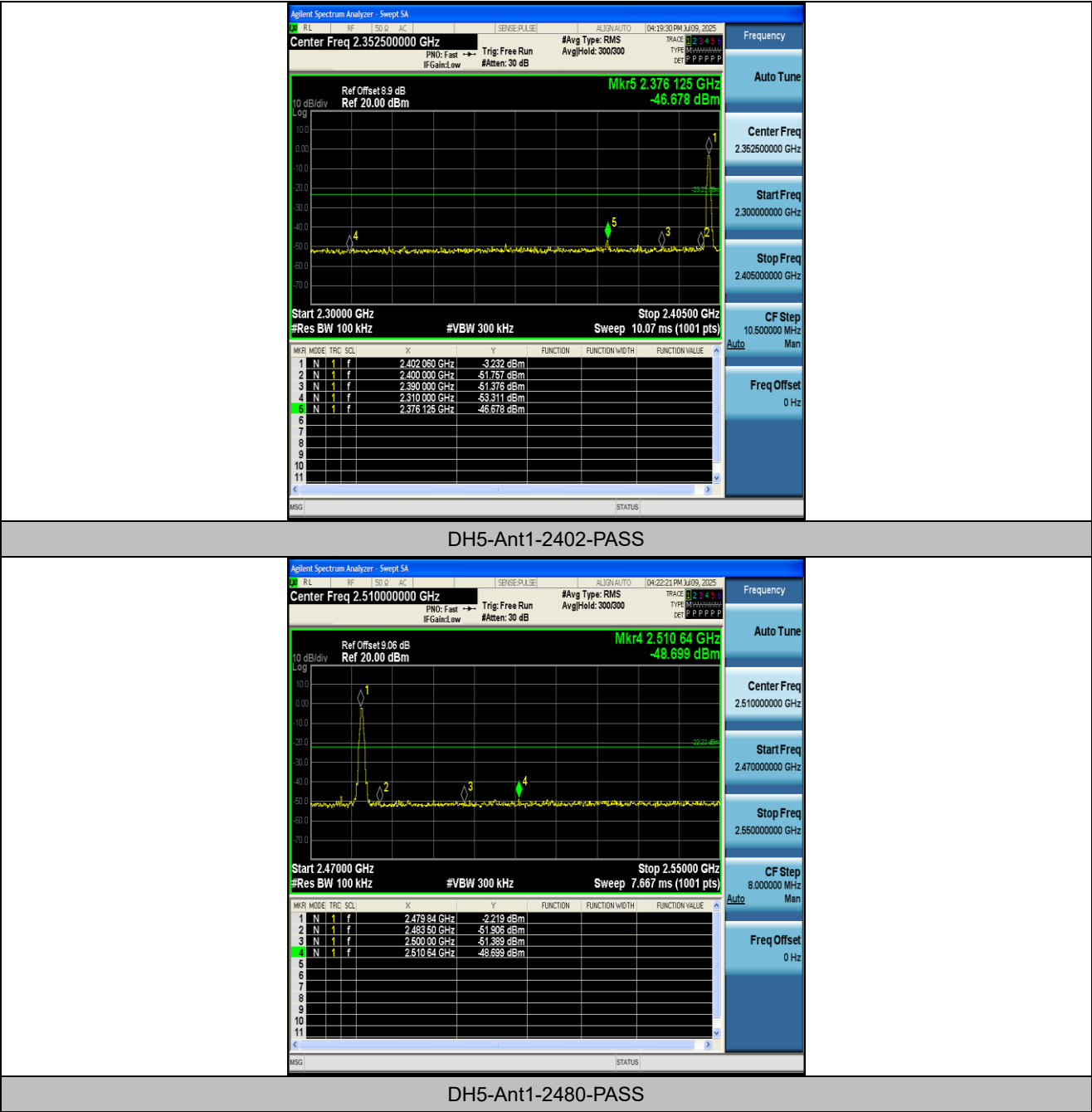
Appendix G: Band edge measurements

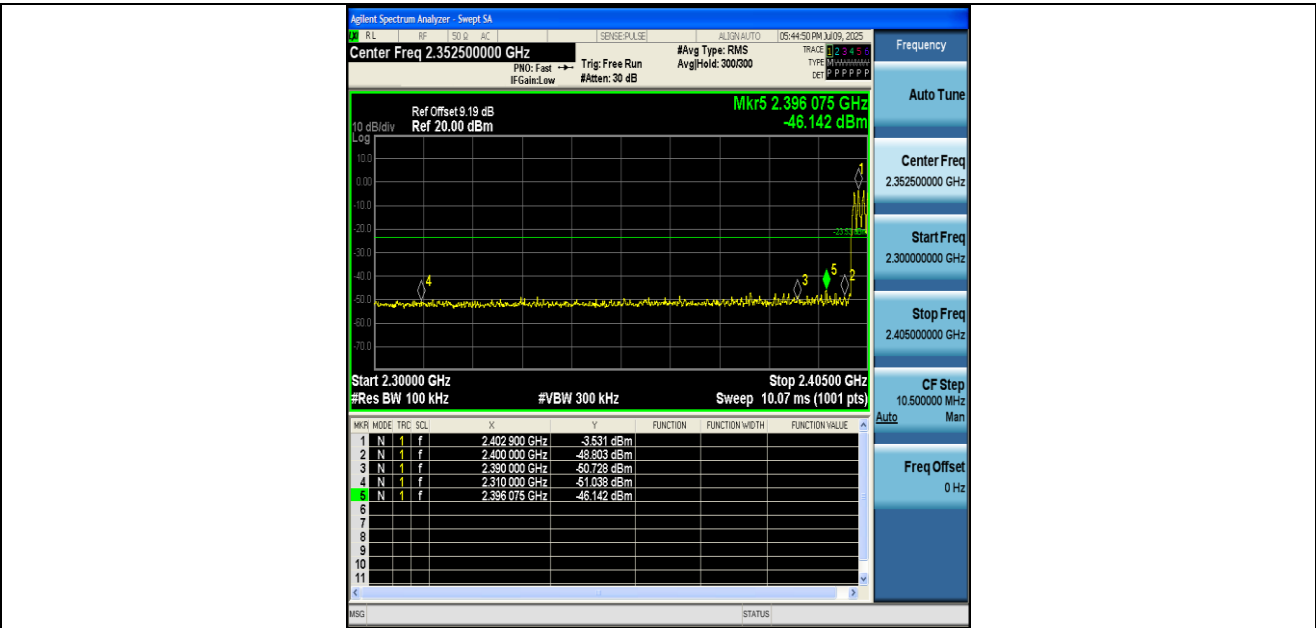
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.23	-46.68	≤ -23.23	PASS
DH5	Ant1	High	2480	-2.22	-48.7	≤ -22.22	PASS
DH5	Ant1	Low	Hop_2402	-3.53	-46.14	≤ -23.53	PASS
DH5	Ant1	High	Hop_2480	-2.21	-47.7	≤ -22.21	PASS
2DH5	Ant1	Low	2402	-4.19	-48.44	≤ -24.19	PASS
2DH5	Ant1	High	2480	-2.41	-48.86	≤ -22.41	PASS
2DH5	Ant1	Low	Hop_2402	-7.53	-48.12	≤ -27.53	PASS
2DH5	Ant1	High	Hop_2480	-2.06	-47.75	≤ -22.06	PASS
3DH5	Ant1	Low	2402	-2.80	-48.04	≤ -22.8	PASS
3DH5	Ant1	High	2480	-1.69	-47.79	≤ -21.69	PASS
3DH5	Ant1	Low	Hop_2402	-4.32	-47.32	≤ -24.32	PASS
3DH5	Ant1	High	Hop_2480	-3.68	-48.31	≤ -23.68	PASS

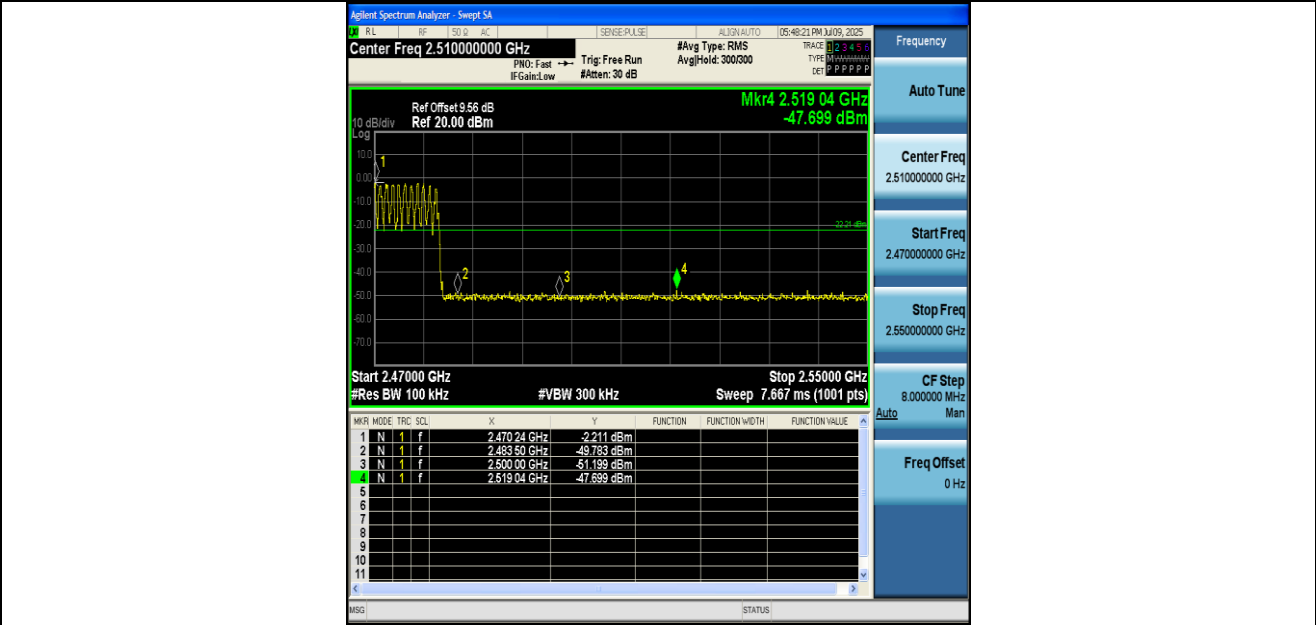
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

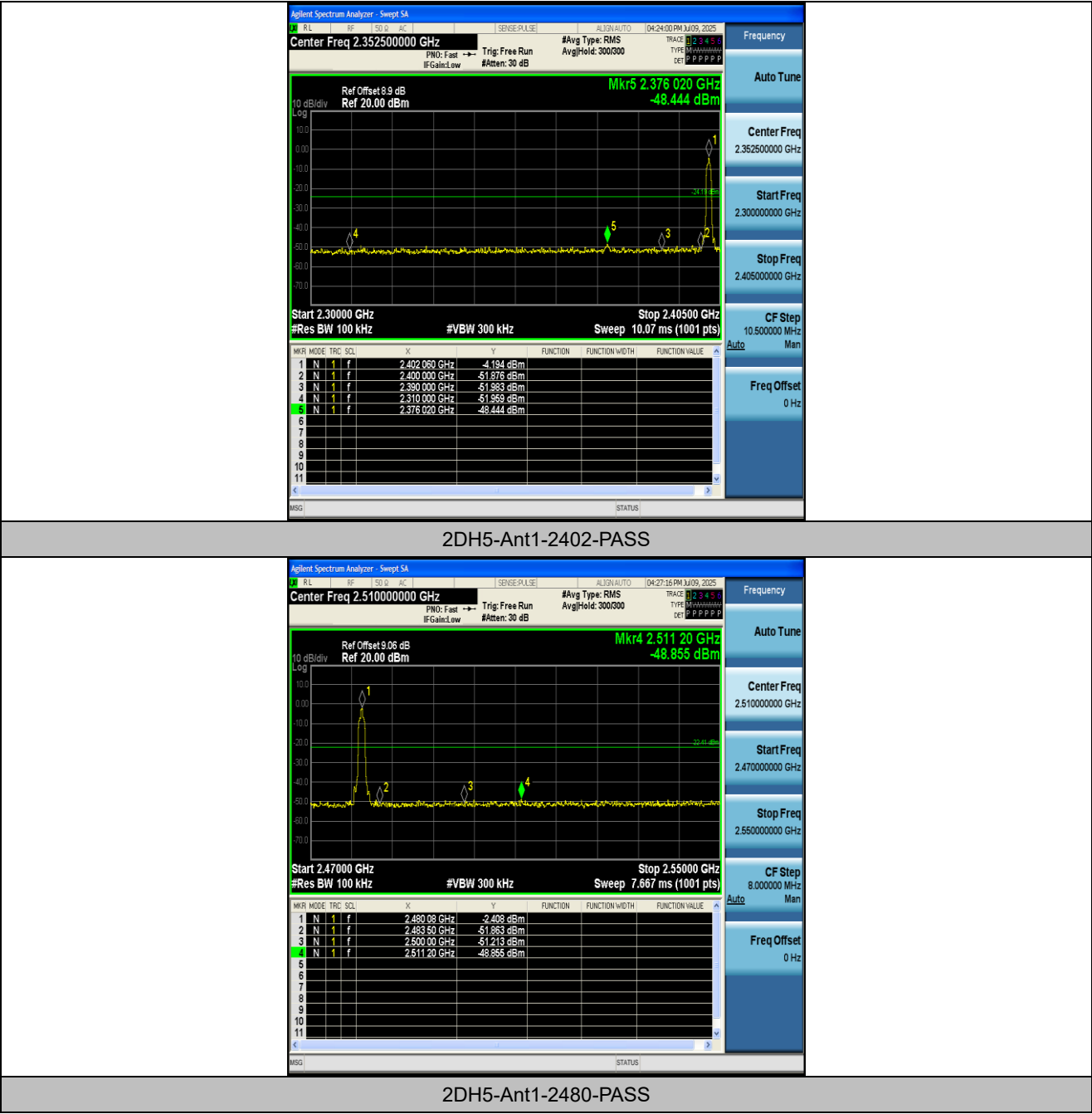


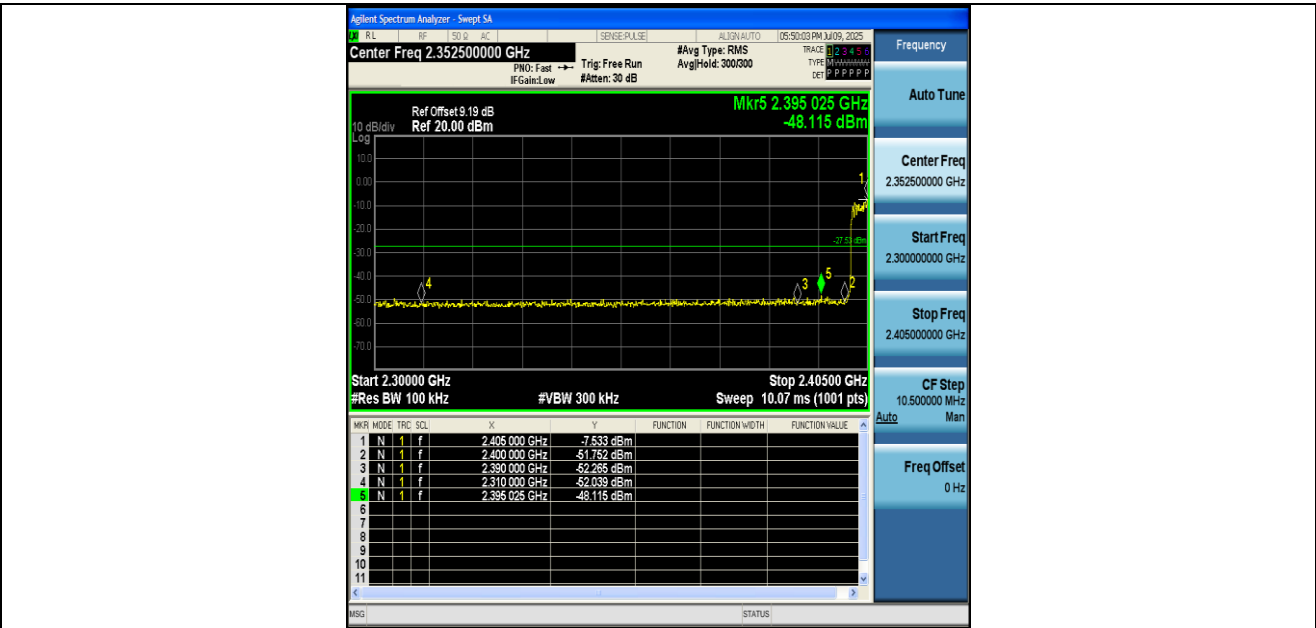


DH5-Ant1-Hop_2402-PASS

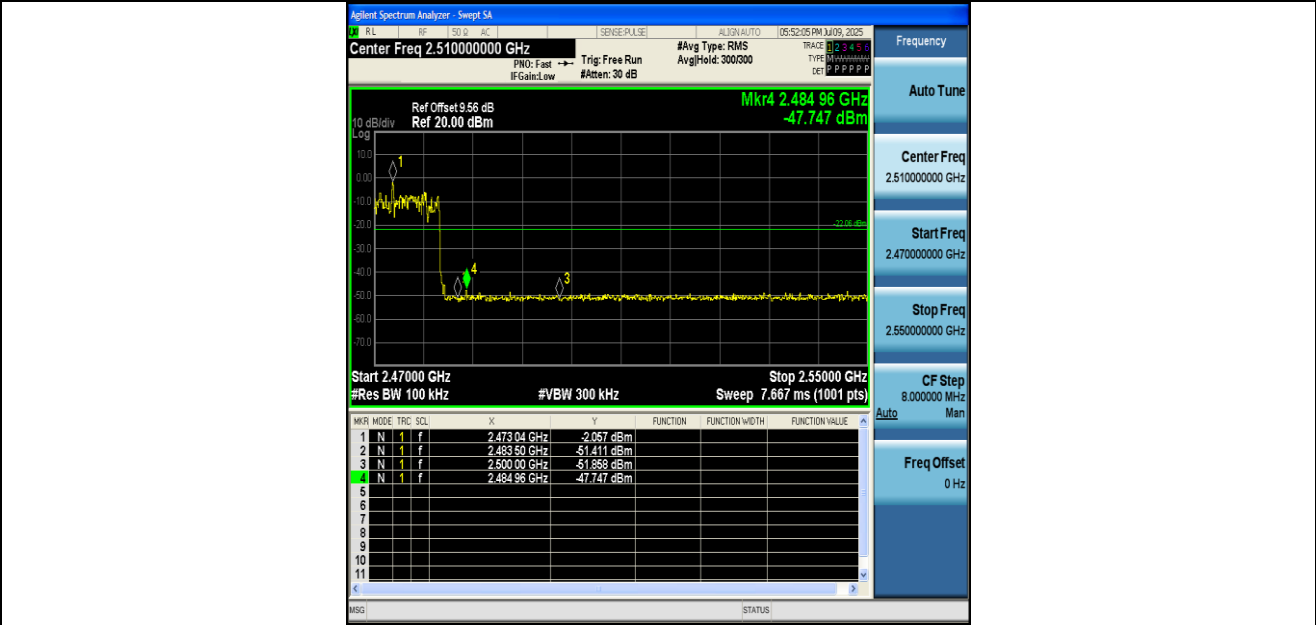


DH5-Ant1-Hop_2480-PASS

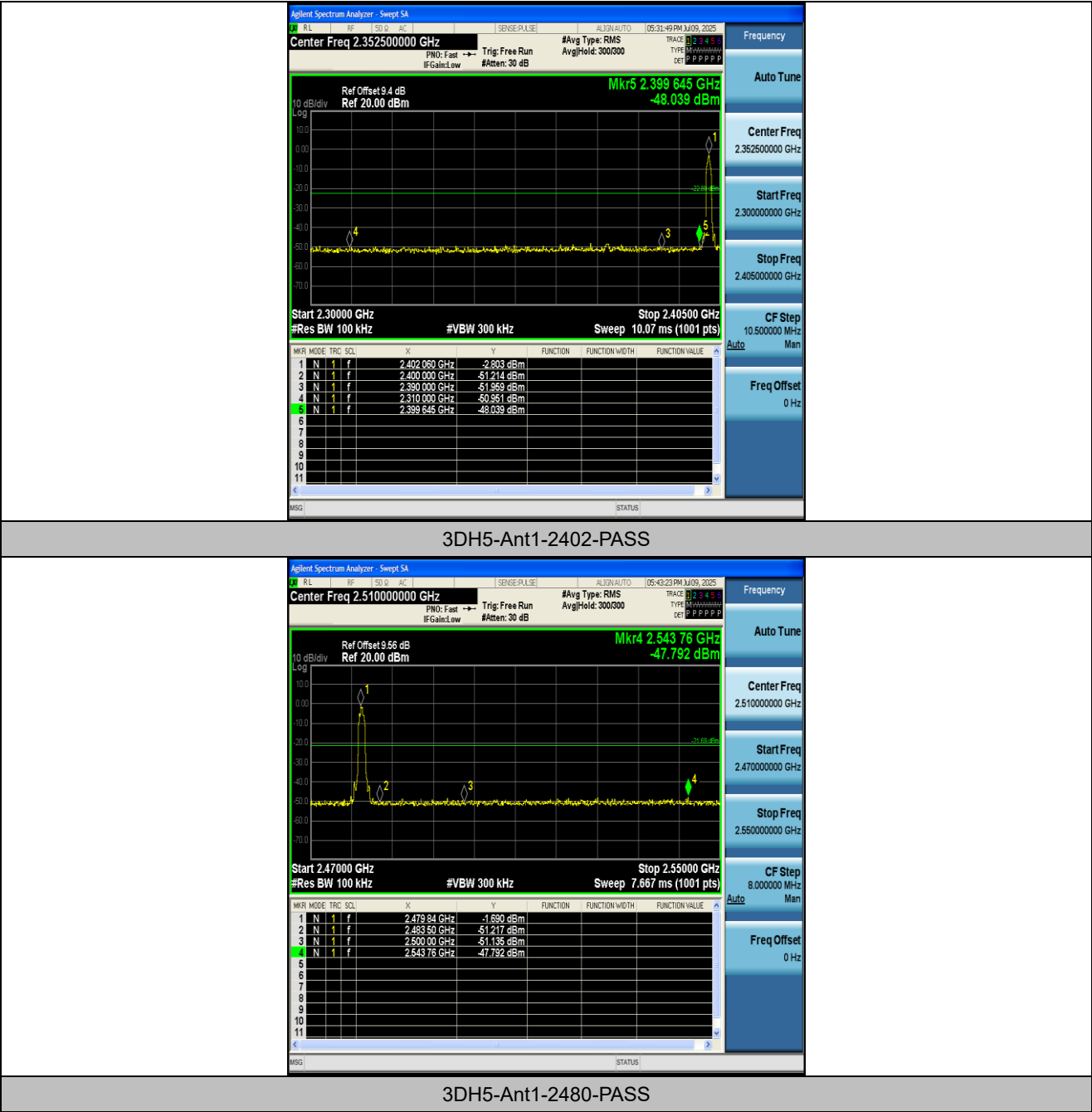


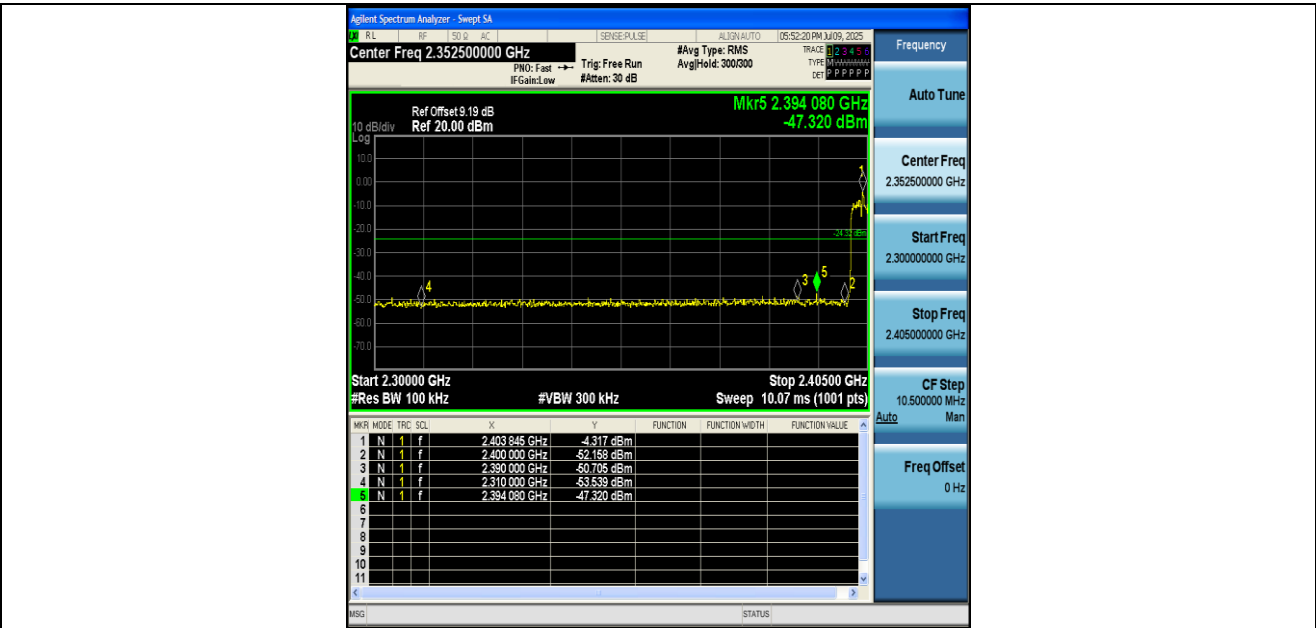


2DH5-Ant1-Hop_2402-PASS

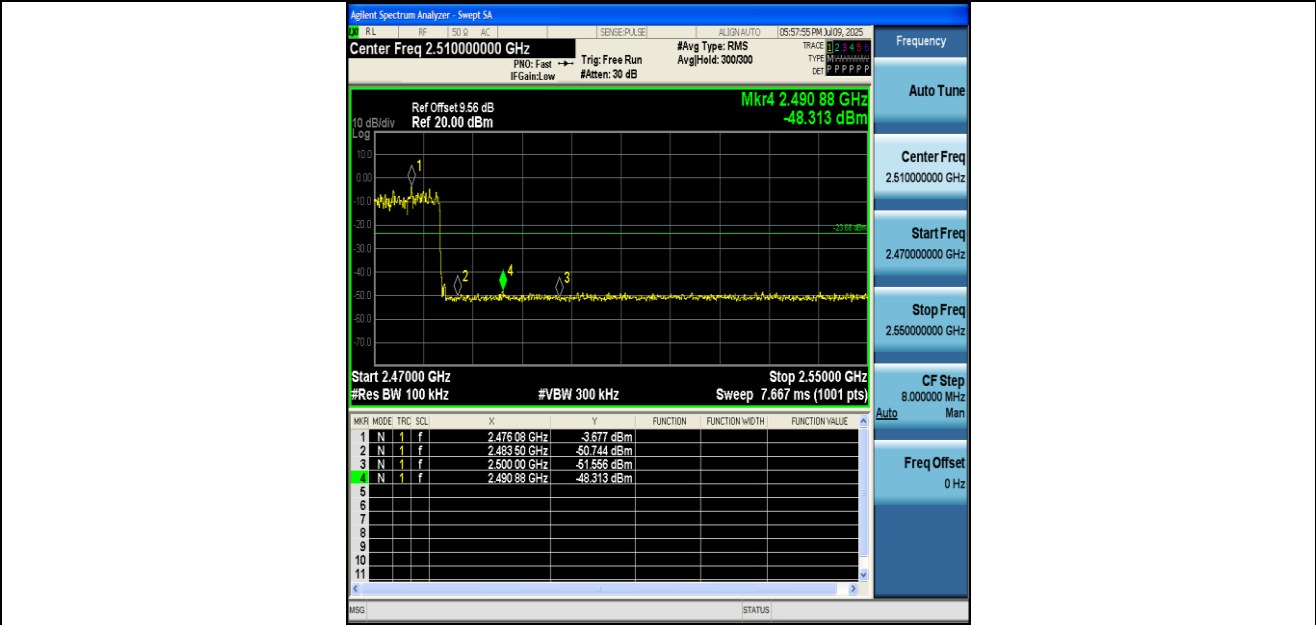


2DH5-Ant1-Hop_2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

Test Result

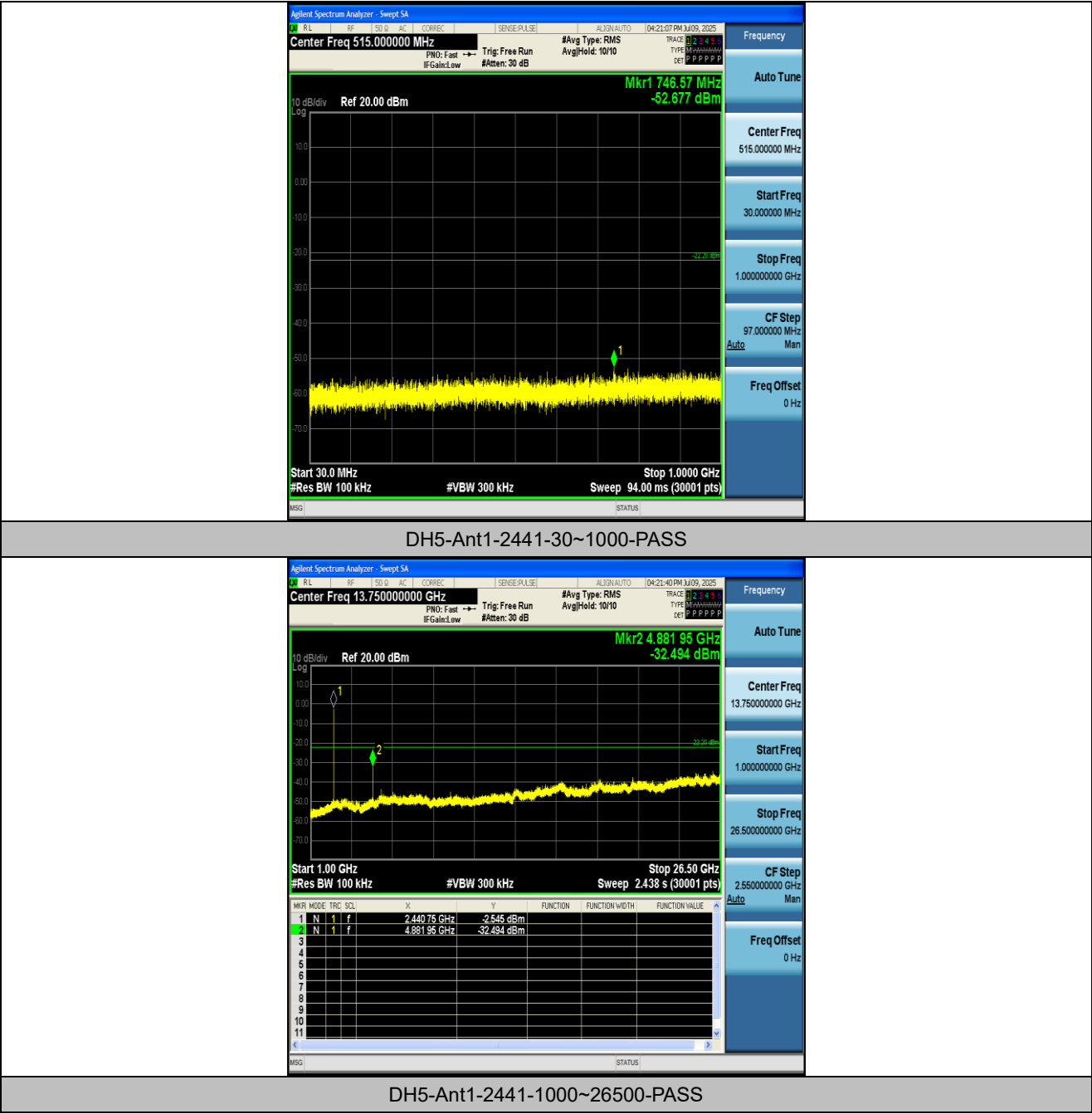
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.53	-3.53	---	PASS
DH5	Ant1	2402	30~1000	-3.53	-53.4	≤-23.53	PASS
DH5	Ant1	2402	1000~26500	-3.53	-30.48	≤-23.53	PASS
DH5	Ant1	2441	0~Reference	-2.20	-2.20	---	PASS
DH5	Ant1	2441	30~1000	-2.20	-52.68	≤-22.2	PASS
DH5	Ant1	2441	1000~26500	-2.20	-32.49	≤-22.2	PASS
DH5	Ant1	2480	0~Reference	-2.24	-2.24	---	PASS
DH5	Ant1	2480	30~1000	-2.24	-52.3	≤-22.24	PASS
DH5	Ant1	2480	1000~26500	-2.24	-32.13	≤-22.24	PASS
2DH5	Ant1	2402	0~Reference	-3.92	-3.92	---	PASS
2DH5	Ant1	2402	30~1000	-3.92	-52.27	≤-23.92	PASS
2DH5	Ant1	2402	1000~26500	-3.92	-33.85	≤-23.92	PASS
2DH5	Ant1	2441	0~Reference	-6.63	-6.63	---	PASS
2DH5	Ant1	2441	30~1000	-6.63	-51.76	≤-26.63	PASS
2DH5	Ant1	2441	1000~26500	-6.63	-29.43	≤-26.63	PASS
2DH5	Ant1	2480	0~Reference	-4.06	-4.06	---	PASS
2DH5	Ant1	2480	30~1000	-4.06	-52.51	≤-24.06	PASS
2DH5	Ant1	2480	1000~26500	-4.06	-30.61	≤-24.06	PASS
3DH5	Ant1	2402	0~Reference	-2.79	-2.79	---	PASS
3DH5	Ant1	2402	30~1000	-2.79	-52.7	≤-22.79	PASS
3DH5	Ant1	2402	1000~26500	-2.79	-30.75	≤-22.79	PASS
3DH5	Ant1	2441	0~Reference	-1.92	-1.92	---	PASS
3DH5	Ant1	2441	30~1000	-1.92	-52.22	≤-21.92	PASS
3DH5	Ant1	2441	1000~26500	-1.92	-34.29	≤-21.92	PASS
3DH5	Ant1	2480	0~Reference	-1.65	-1.65	---	PASS
3DH5	Ant1	2480	30~1000	-1.65	-51.16	≤-21.65	PASS
3DH5	Ant1	2480	1000~26500	-1.65	-34.79	≤-21.65	PASS

Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

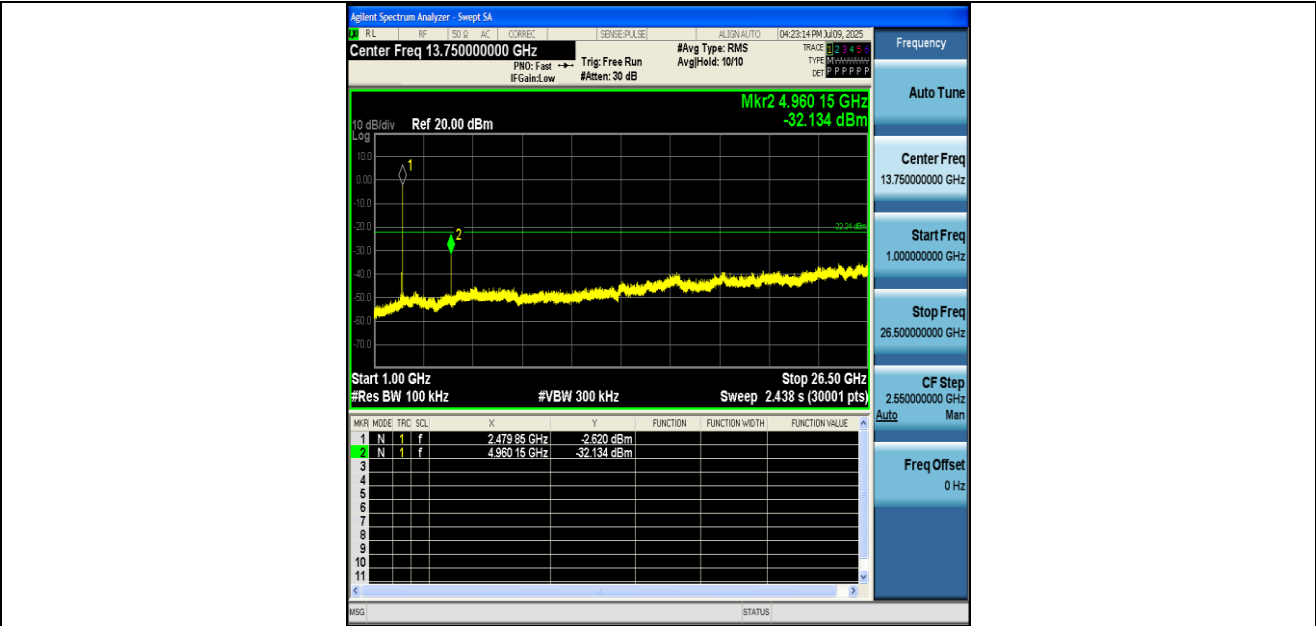
Test Graphs



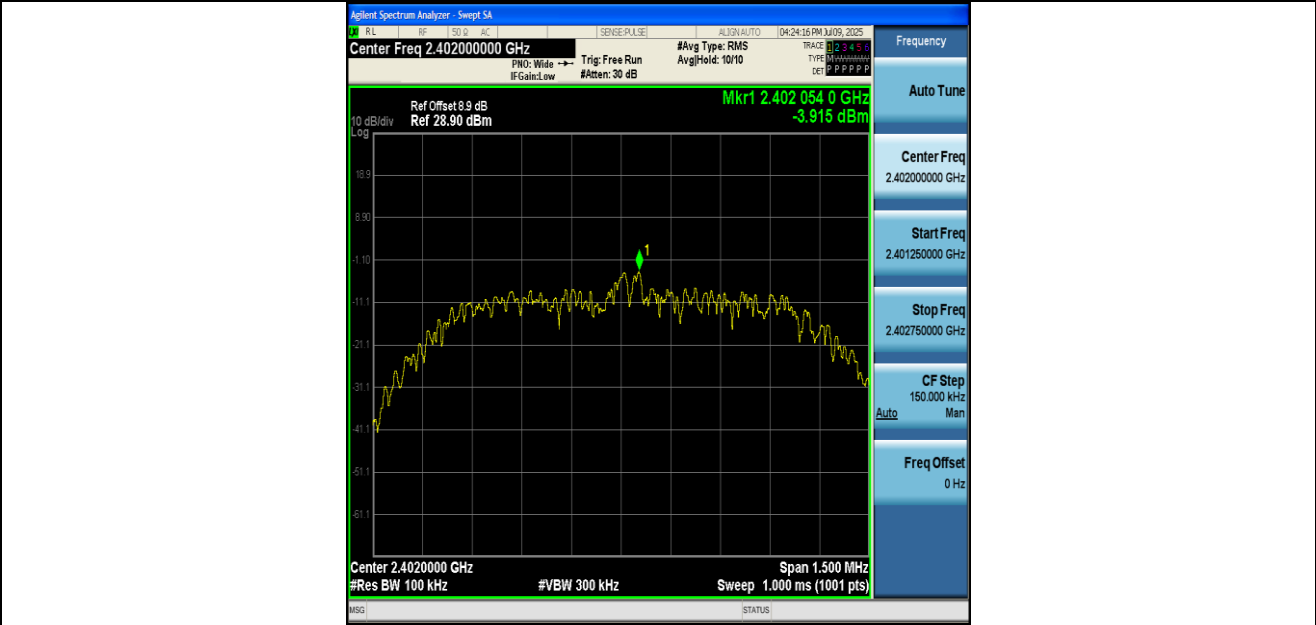




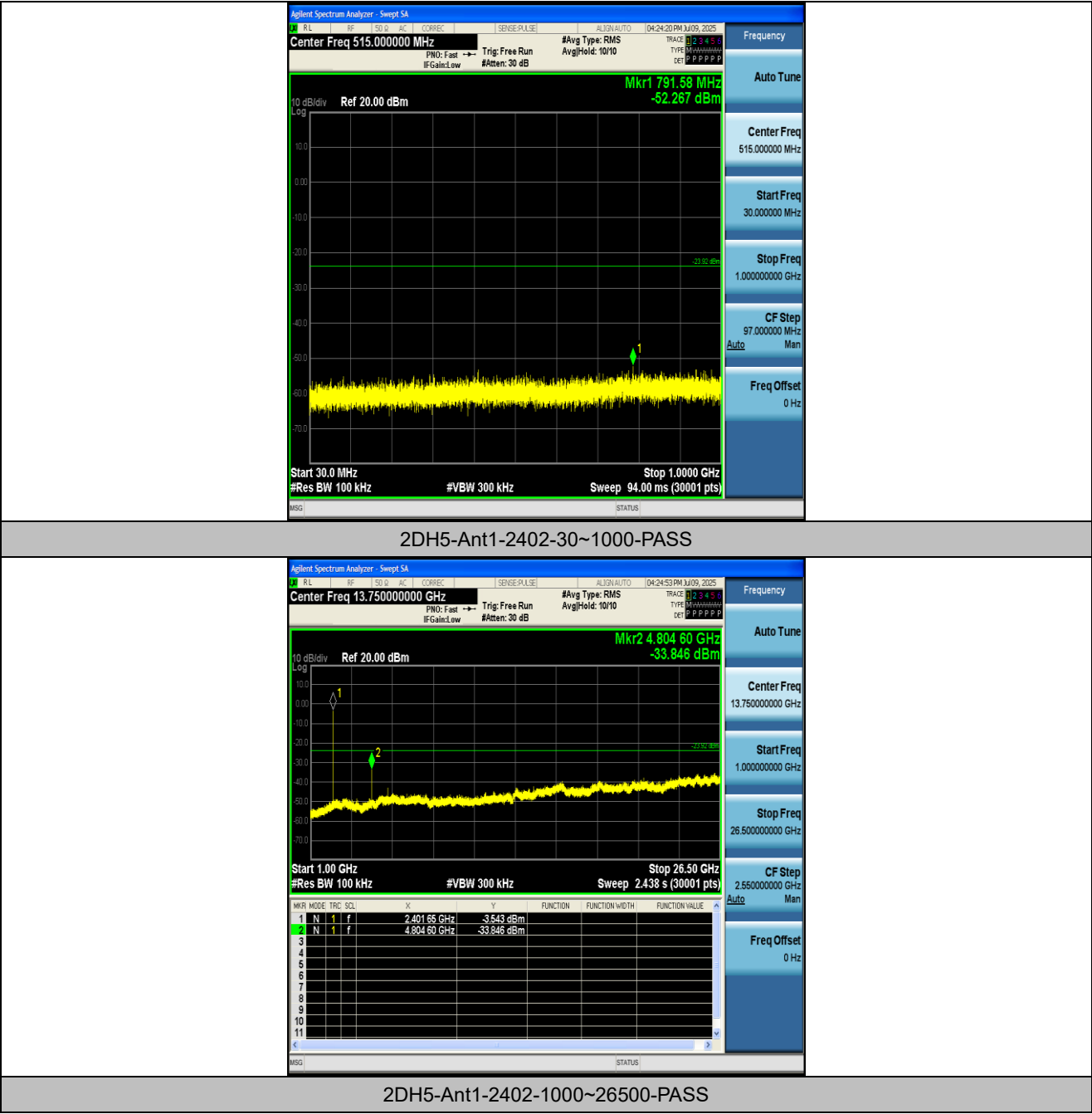




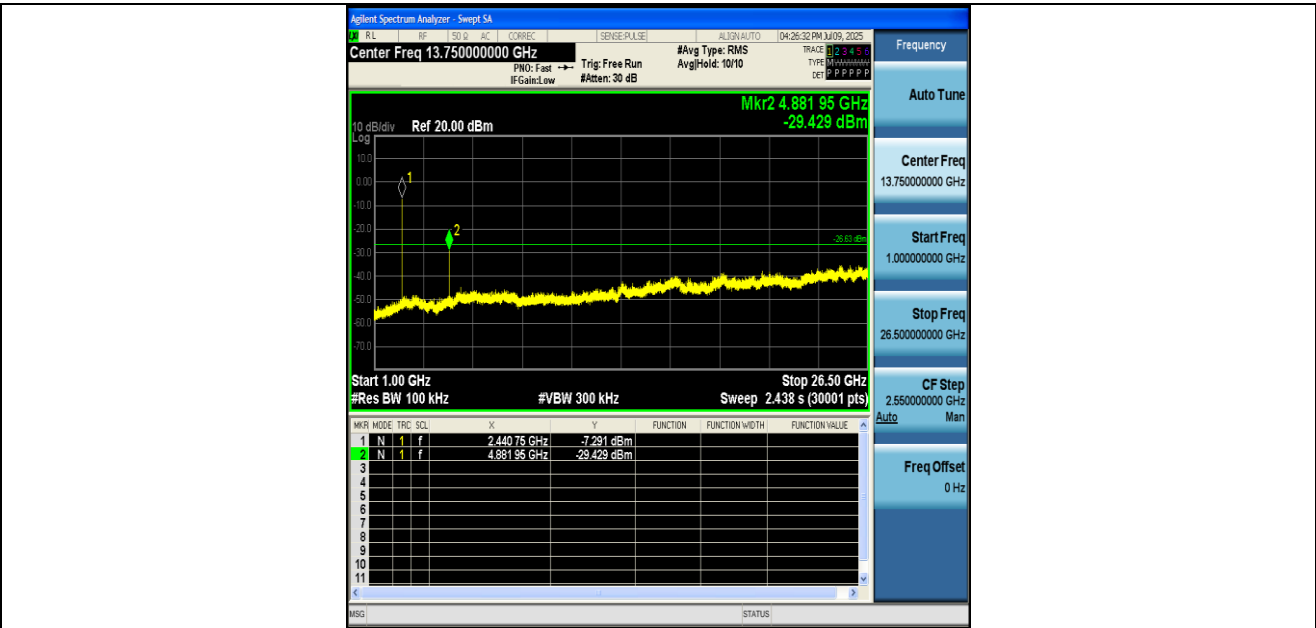
DH5-Ant1-2480-1000~26500-PASS



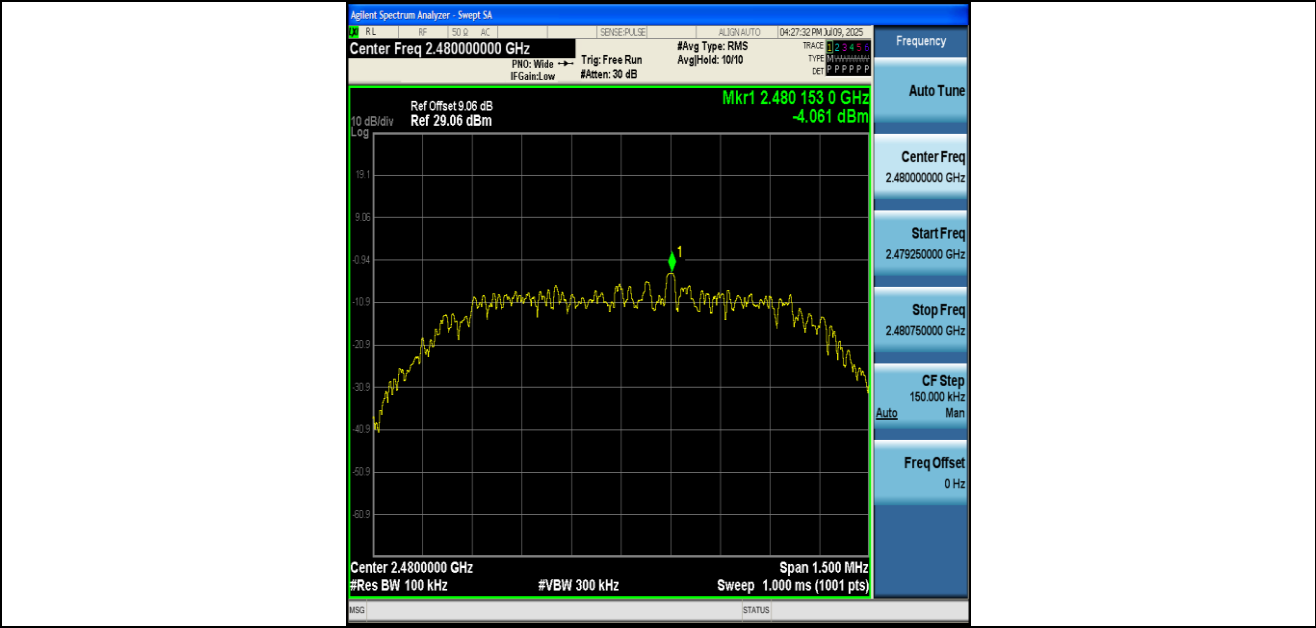
2DH5-Ant1-2402-0~Reference-PASS



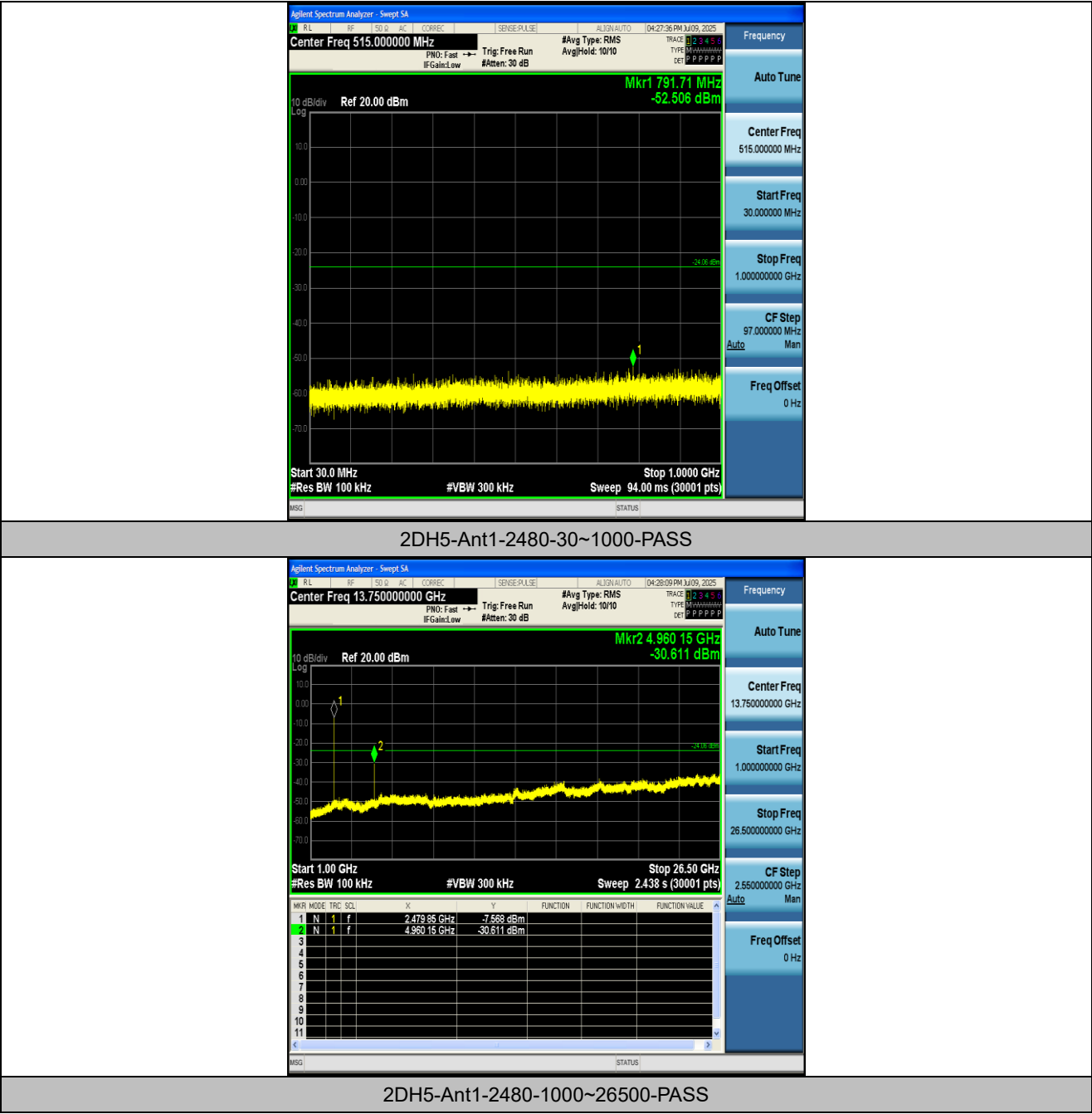


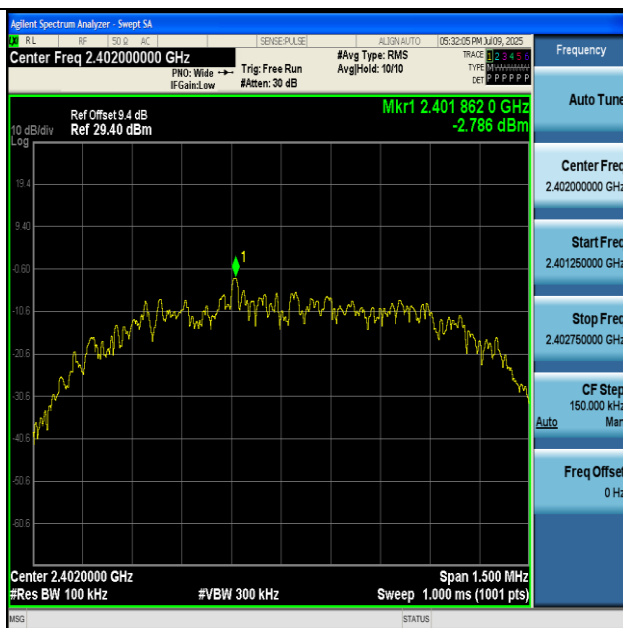


2DH5-Ant1-2441-1000~26500-PASS

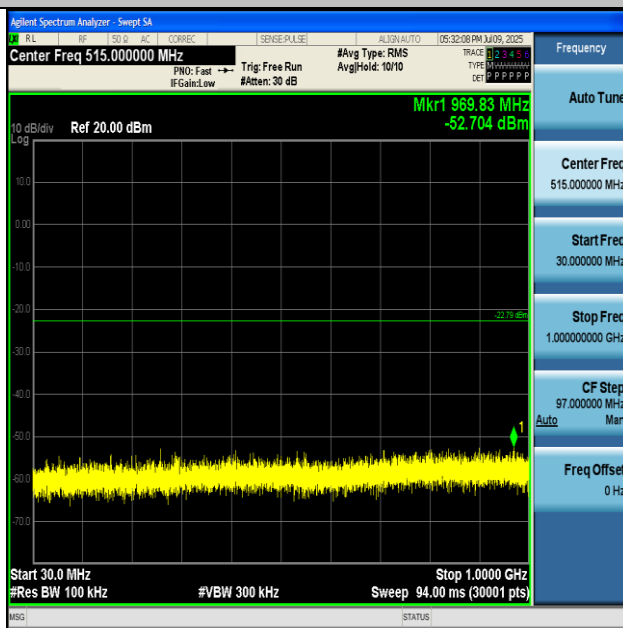


2DH5-Ant1-2480-0~Reference-PASS

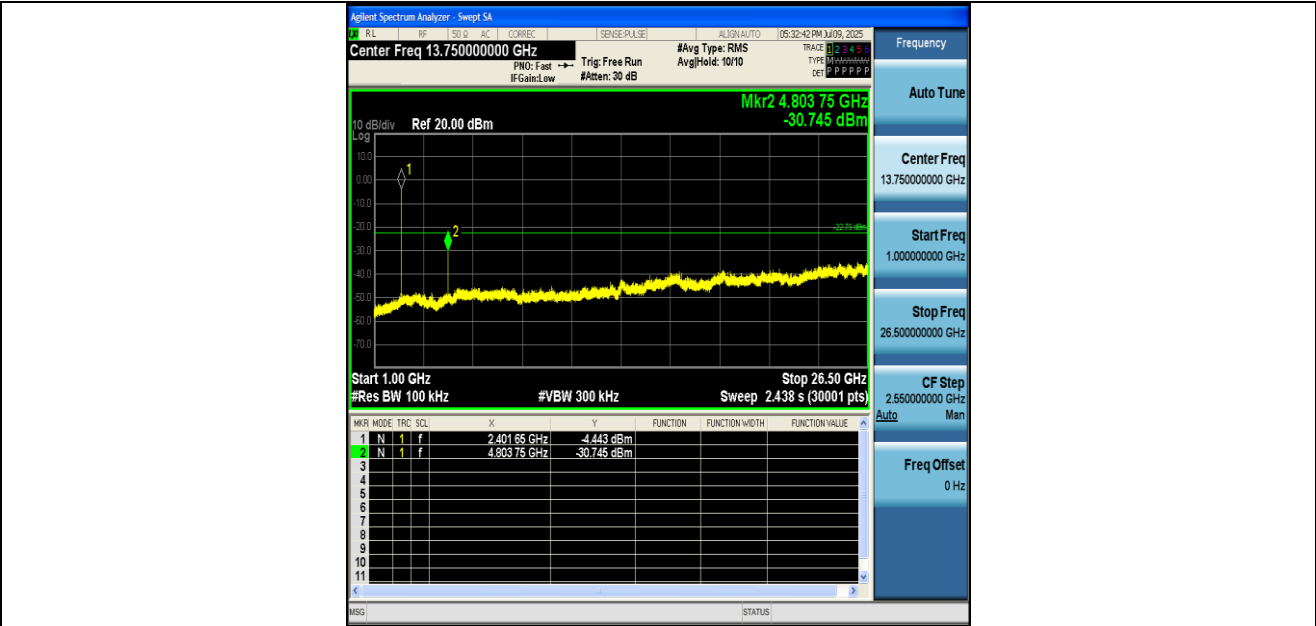




3DH5-Ant1-2402-0~Reference-PASS



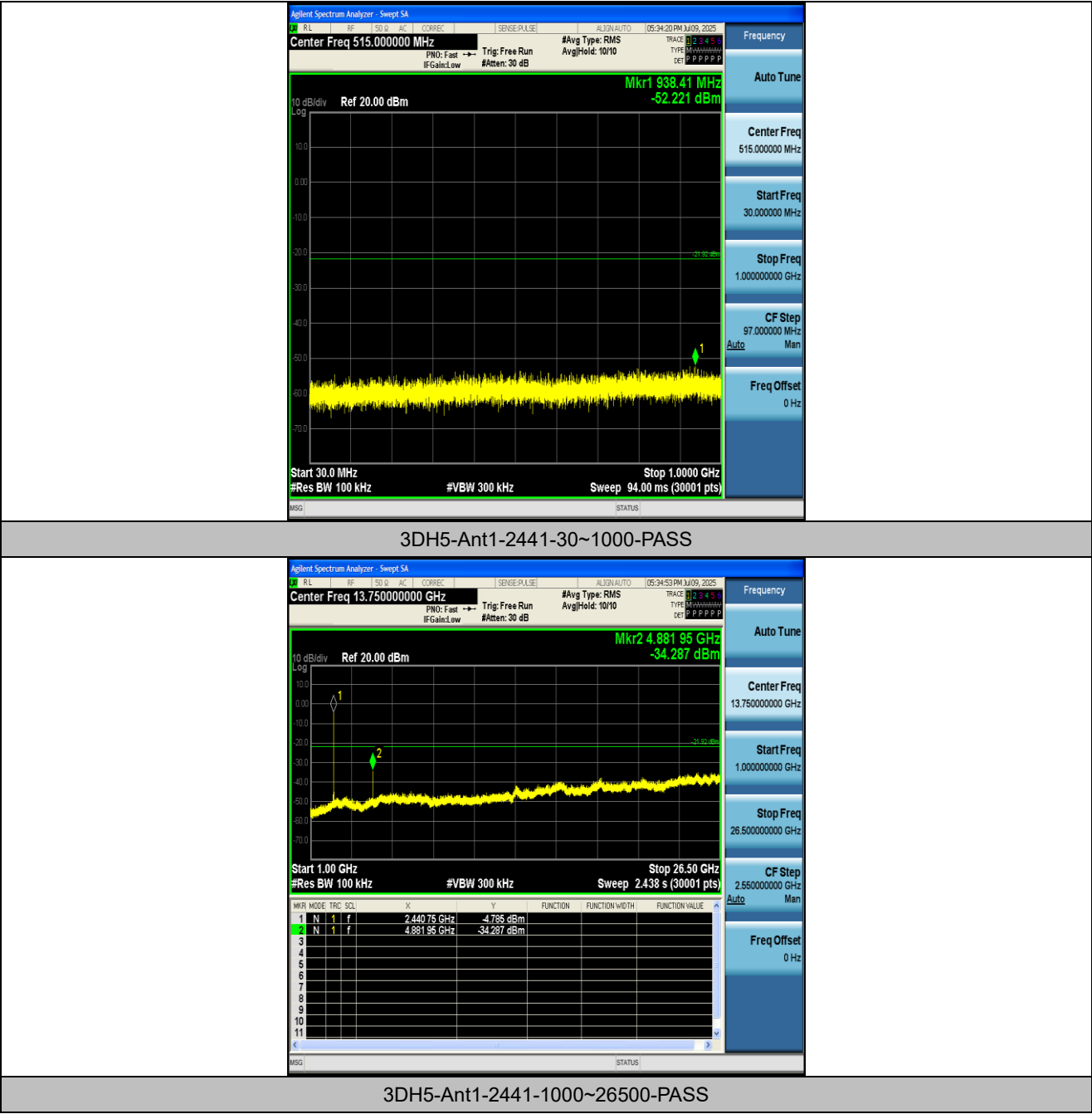
3DH5-Ant1-2402-30~1000-PASS



3DH5-Ant1-2402-1000~26500-PASS

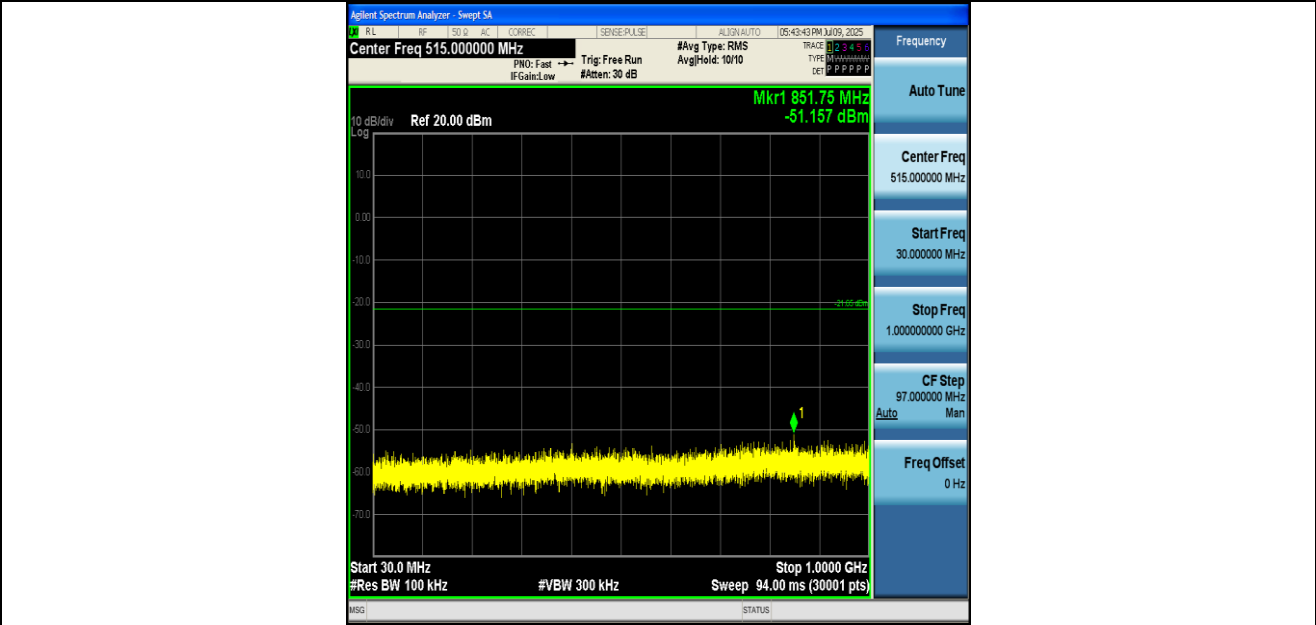


3DH5-Ant1-2441-0~Reference-PASS

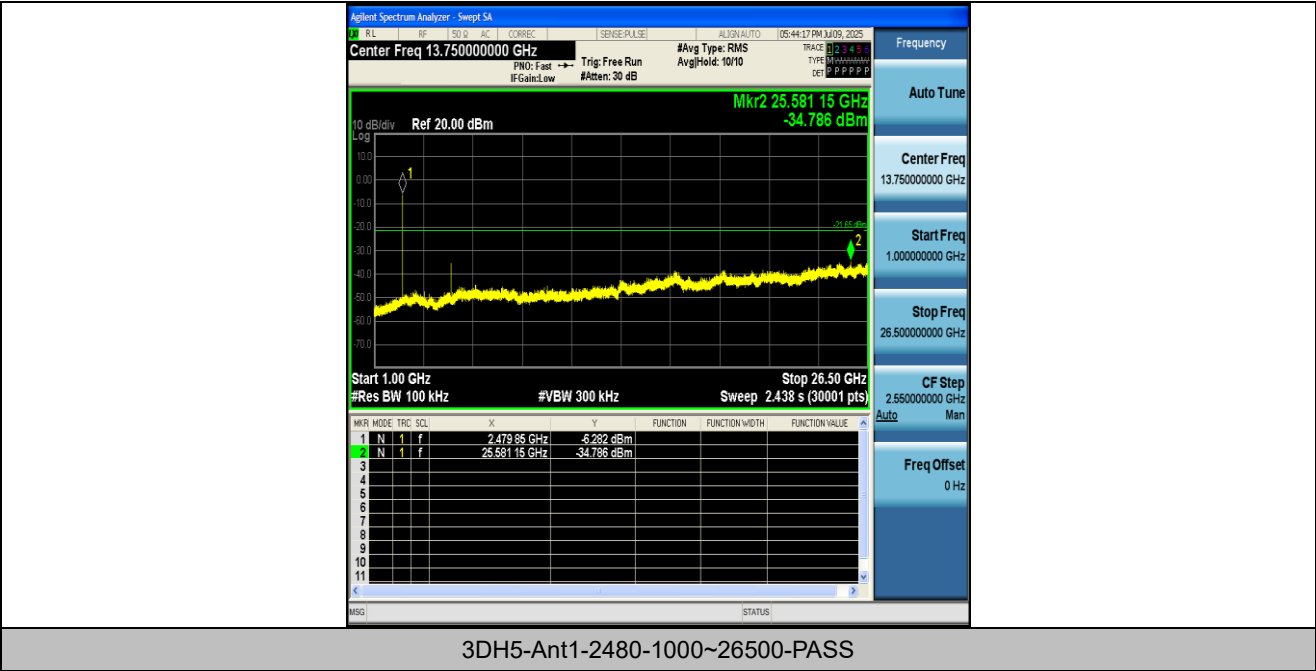




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.90	3.75	77.33	1.12
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.90	3.75	77.33	1.12
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
3DH5	Ant1	2441	2.91	3.75	77.60	1.10
3DH5	Ant1	2480	2.91	3.75	77.60	1.10

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs



