

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

Product Name: WIRELESS MICROPHONE

Trade Mark: singing machine

Test Model: MIC678

FCC ID: 2AAXO-MIC678

Environmental Conditions

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

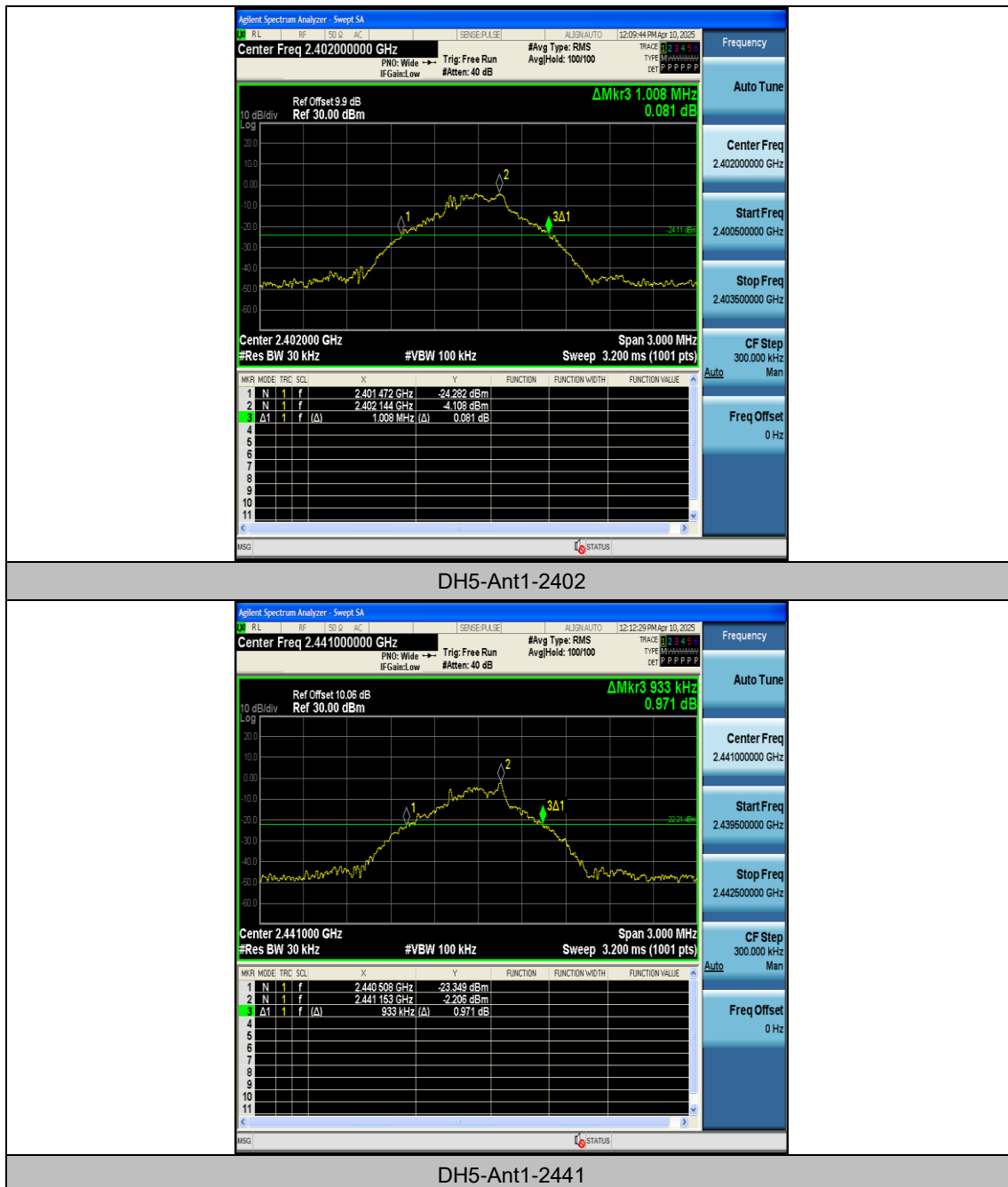
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	1.008	2401.472	2402.480	---	---
DH5	Ant1	2441	0.933	2440.508	2441.441	---	---
DH5	Ant1	2480	1.044	2479.448	2480.492	---	---
2DH5	Ant1	2402	1.320	2401.331	2402.651	---	---
2DH5	Ant1	2441	1.302	2440.343	2441.645	---	---
2DH5	Ant1	2480	1.314	2479.334	2480.648	---	---

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

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



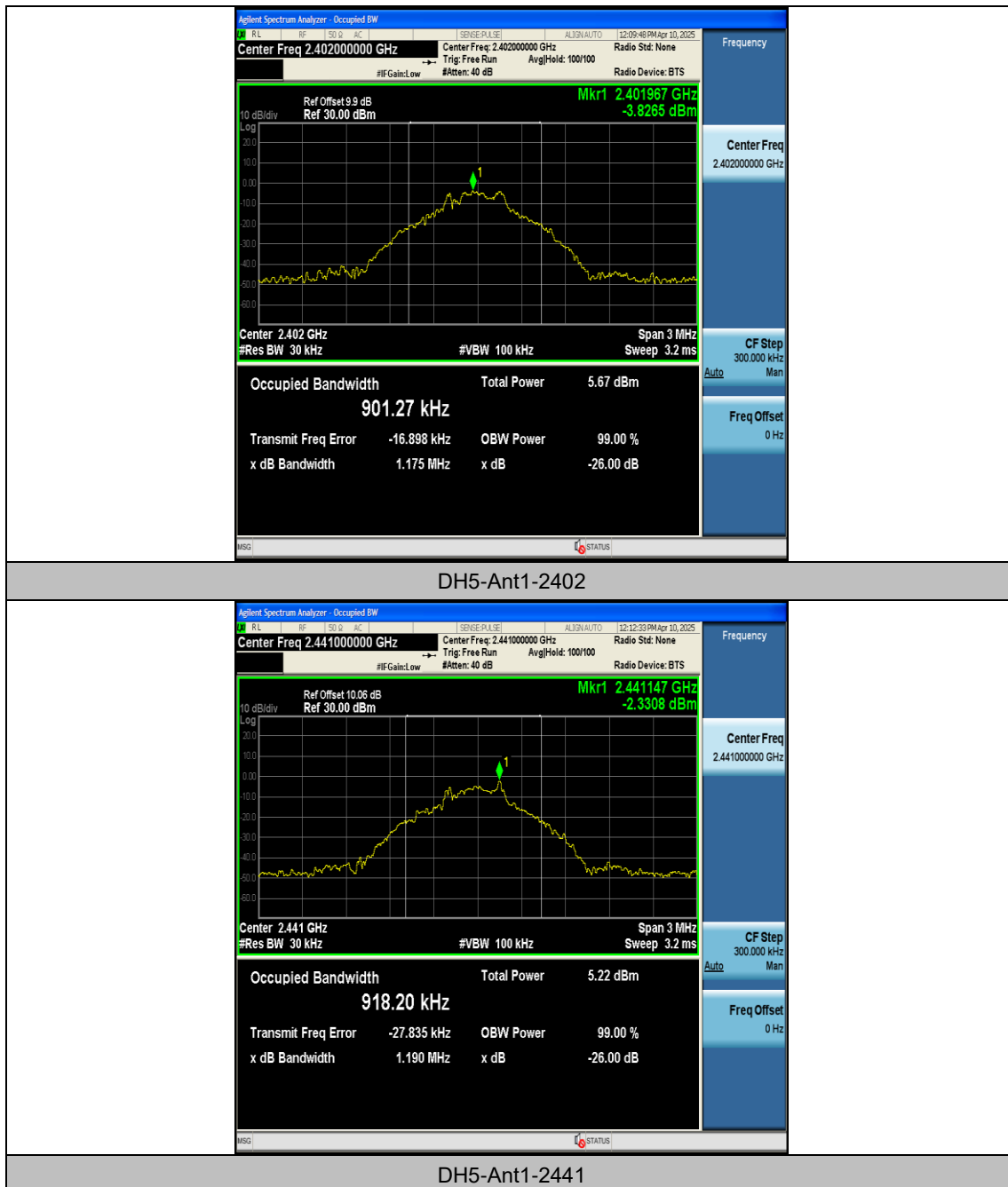
Appendix B: Occupied Channel Bandwidth

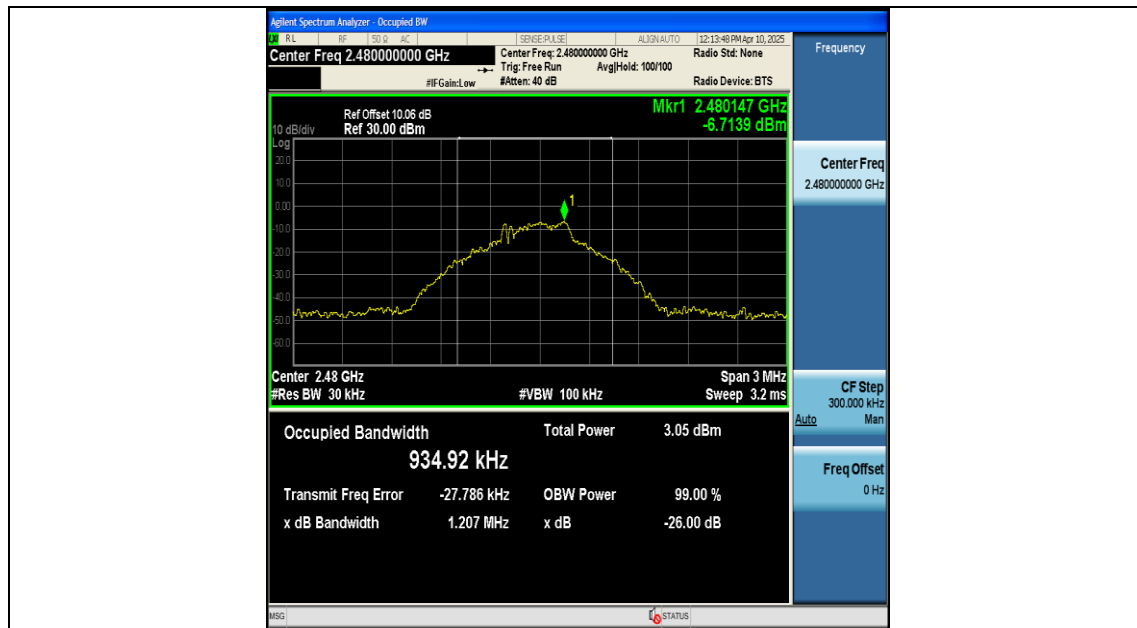
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.90127	2401.5325	2402.4337	---	---
DH5	Ant1	2441	0.91820	2440.5131	2441.4313	---	---
DH5	Ant1	2480	0.93492	2479.5048	2480.4397	---	---
2DH5	Ant1	2402	1.1946	2401.4025	2402.5971	---	---
2DH5	Ant1	2441	1.2137	2440.3878	2441.6015	---	---
2DH5	Ant1	2480	1.1941	2479.3898	2480.5839	---	---

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

Test Graphs





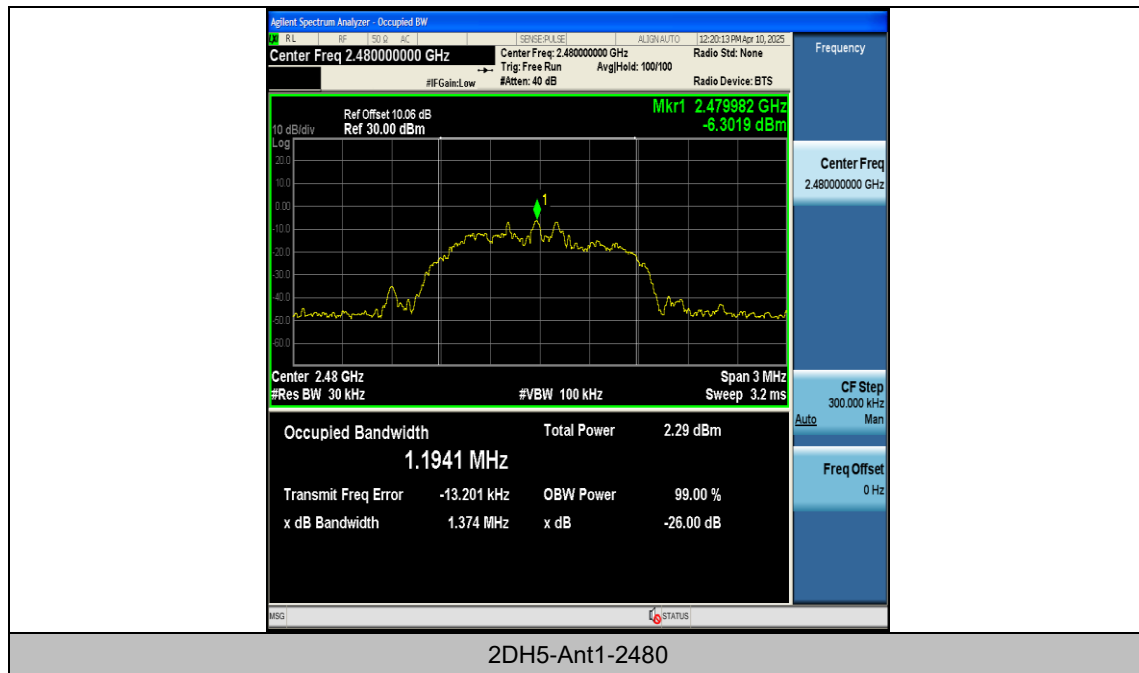
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



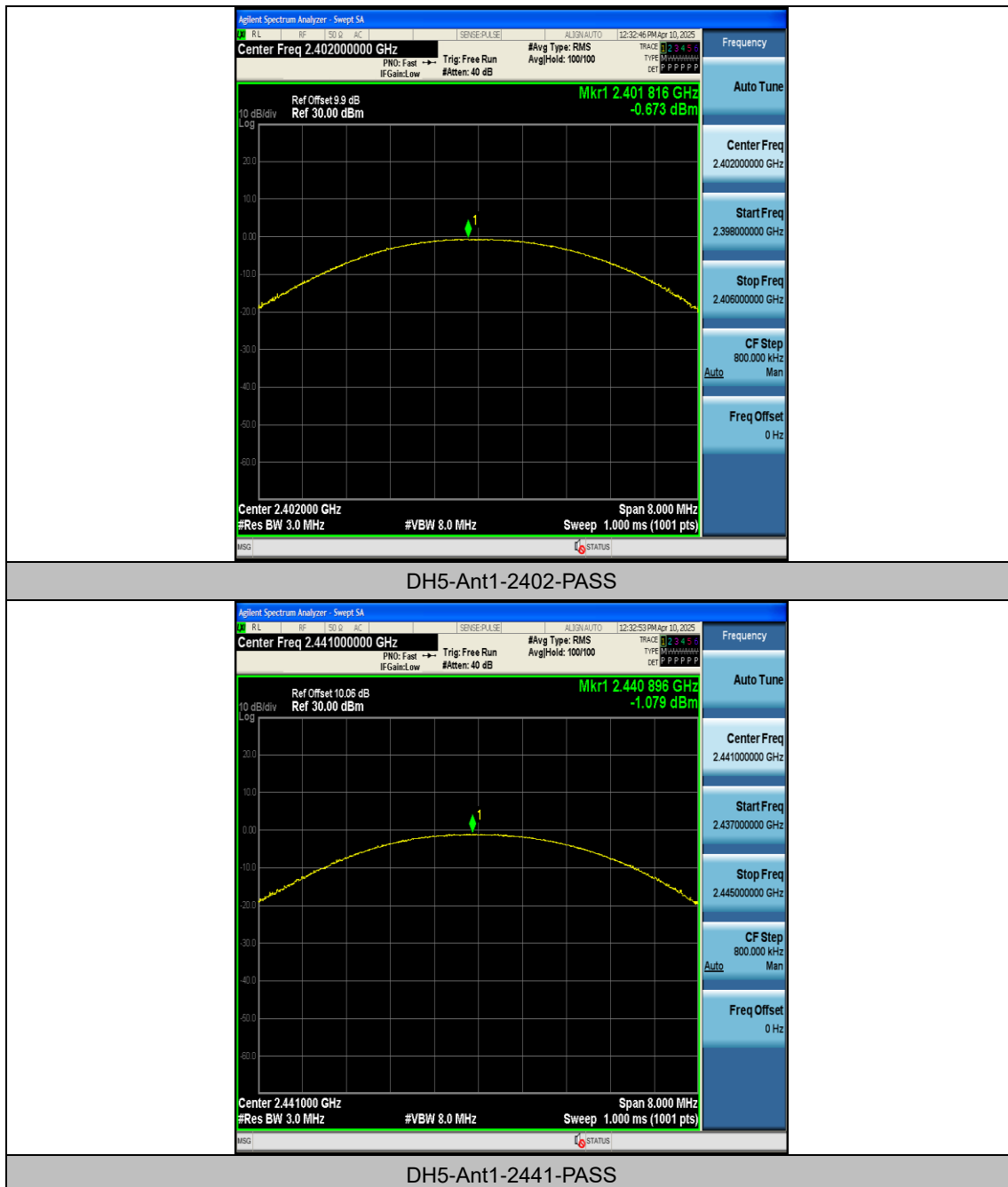
Appendix C: Maximum peak conducted output power

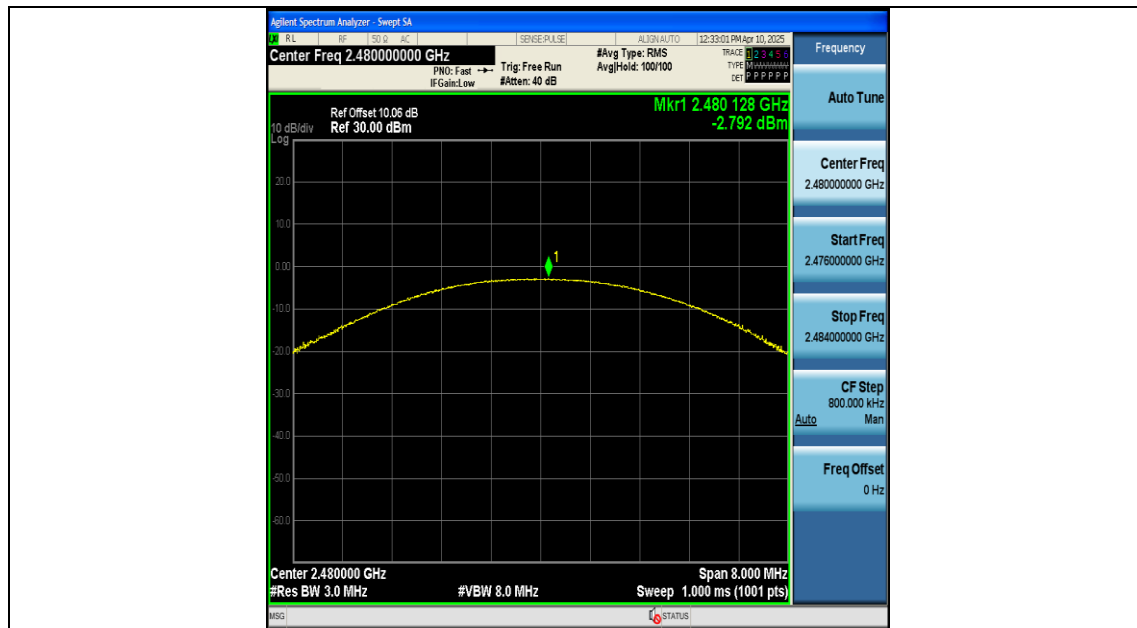
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-0.67	≤20.97	PASS
DH5	Ant1	2441	-1.08	≤20.97	PASS
DH5	Ant1	2480	-2.79	≤20.97	PASS
2DH5	Ant1	2402	-0.75	≤20.97	PASS
2DH5	Ant1	2441	-1.23	≤20.97	PASS
2DH5	Ant1	2480	-3.05	≤20.97	PASS

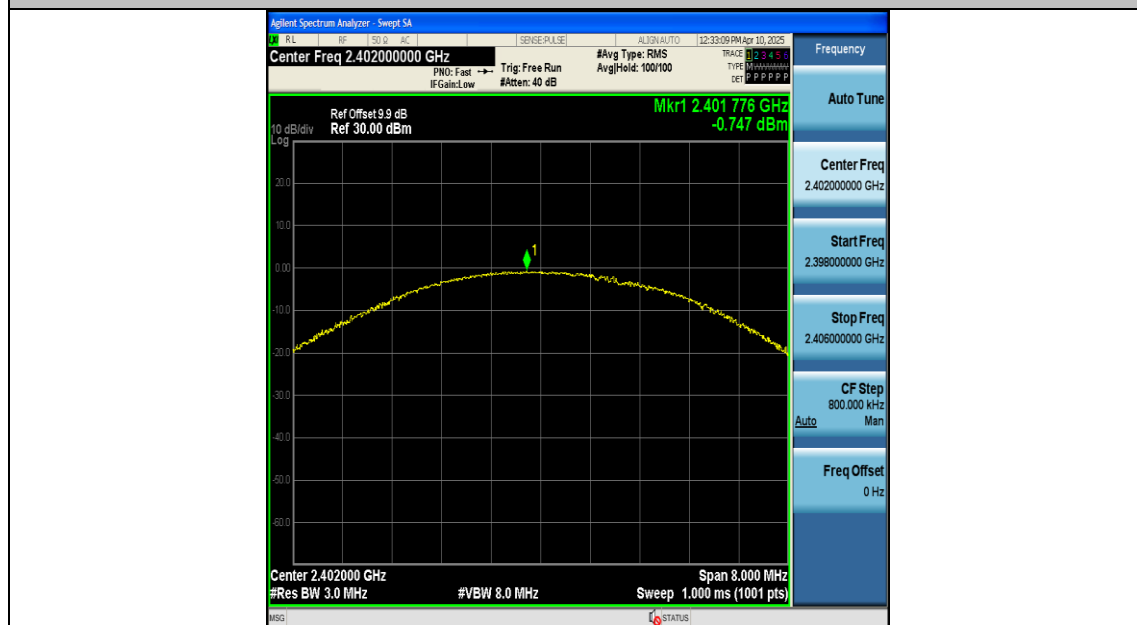
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

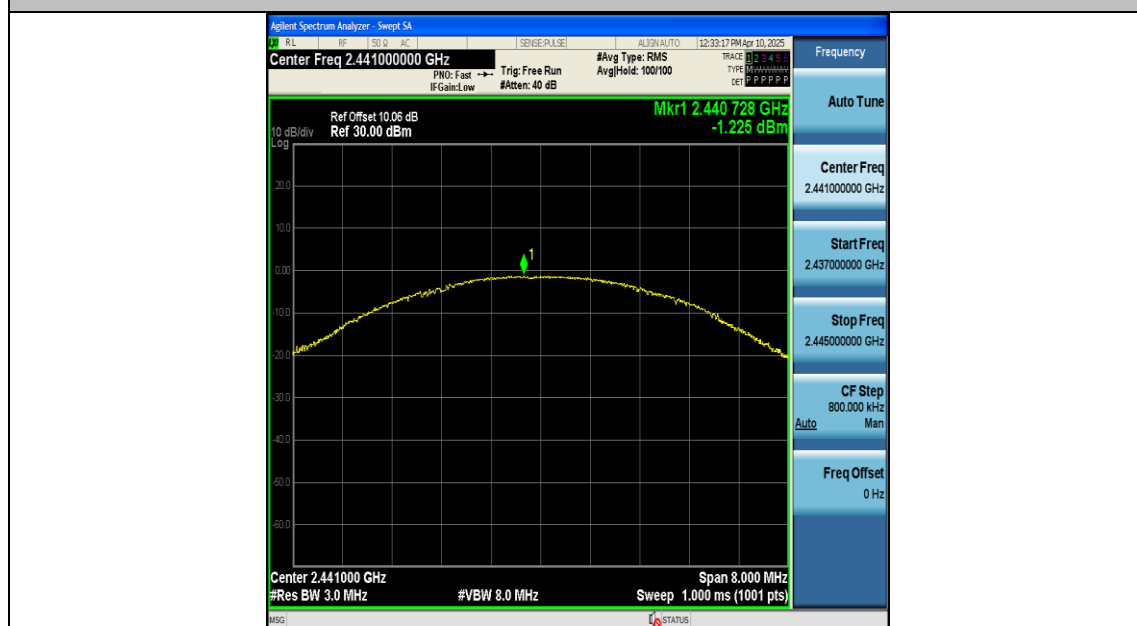




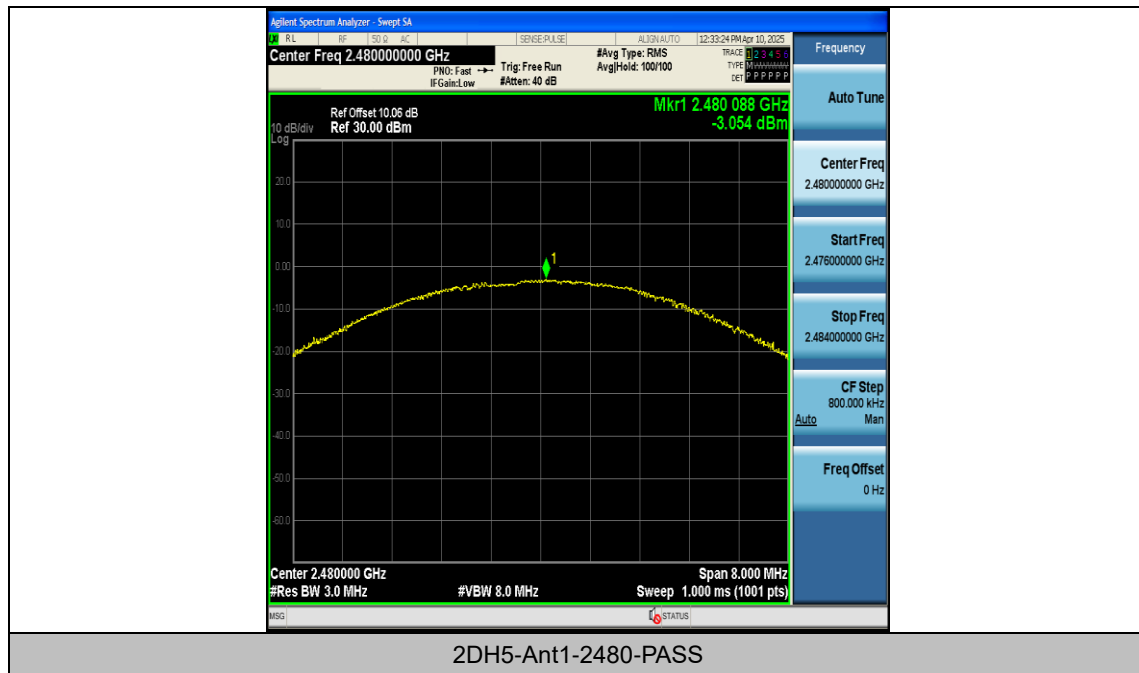
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



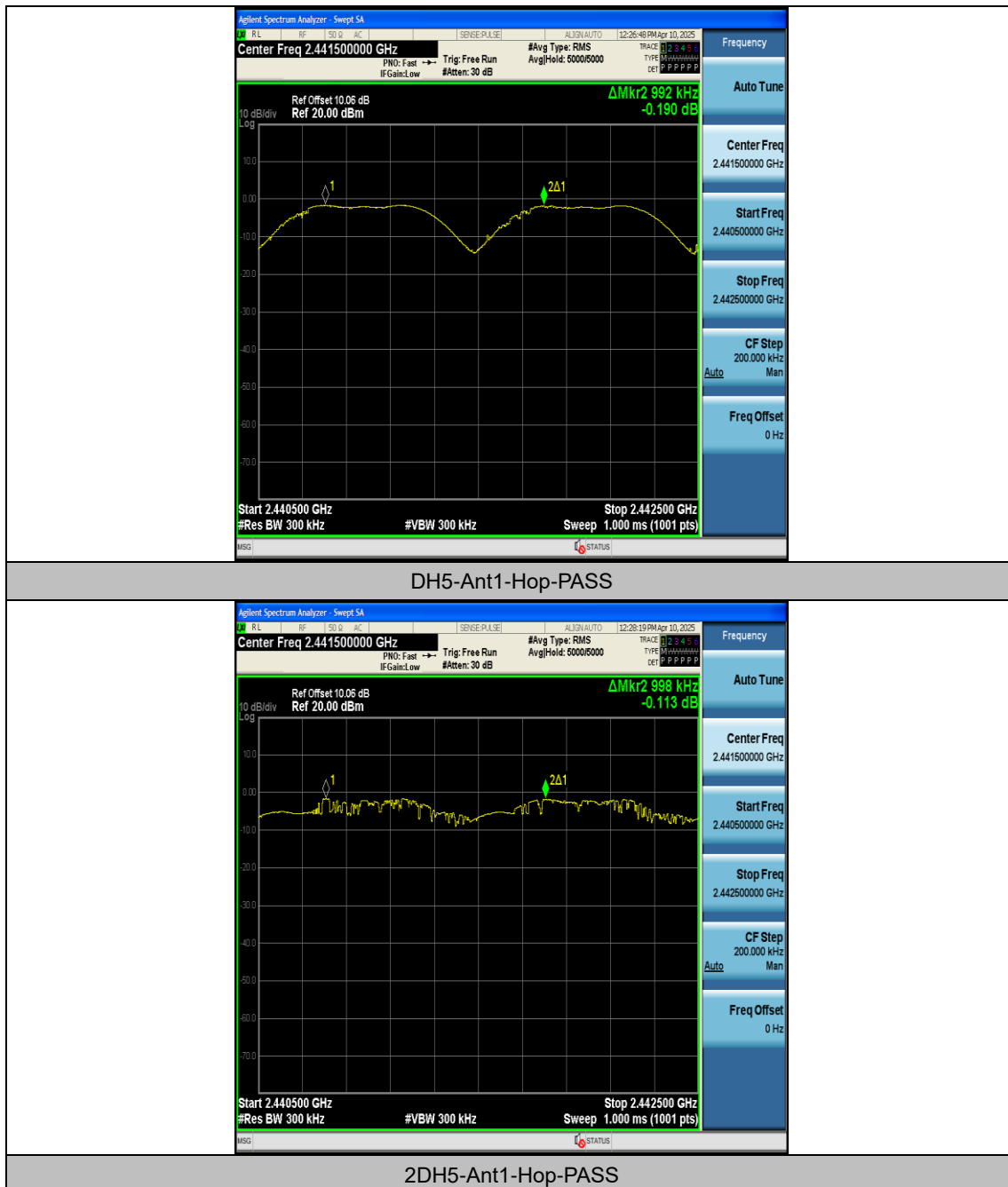
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.696	PASS
2DH5	Ant1	Hop	0.998	≥ 0.880	PASS

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

Test Graphs



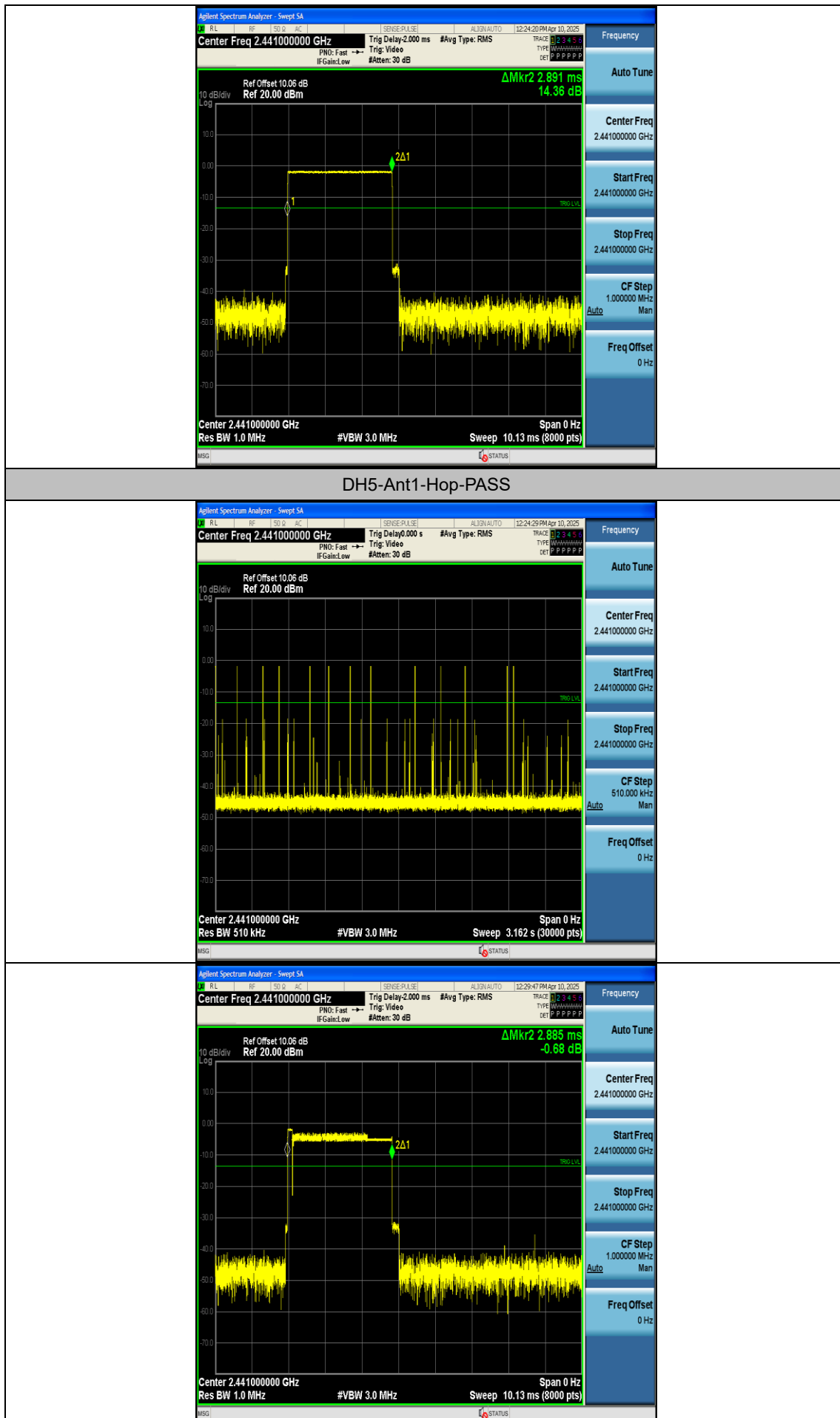
Appendix E: Time of occupancy

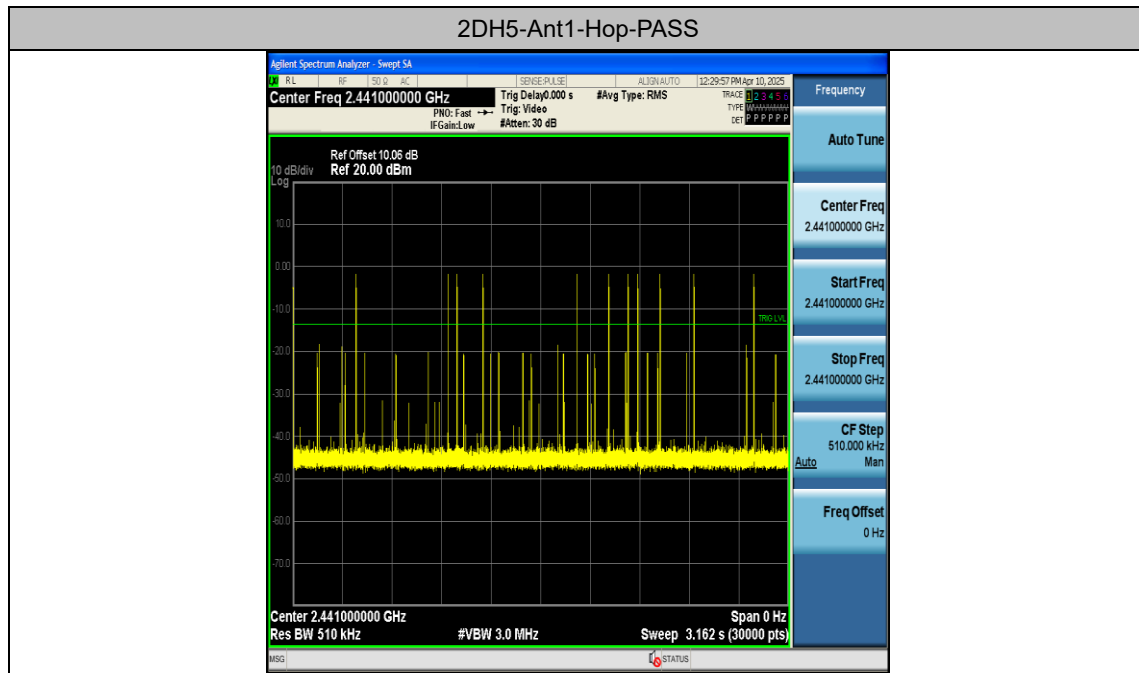
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS
2DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS

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

Test Graphs





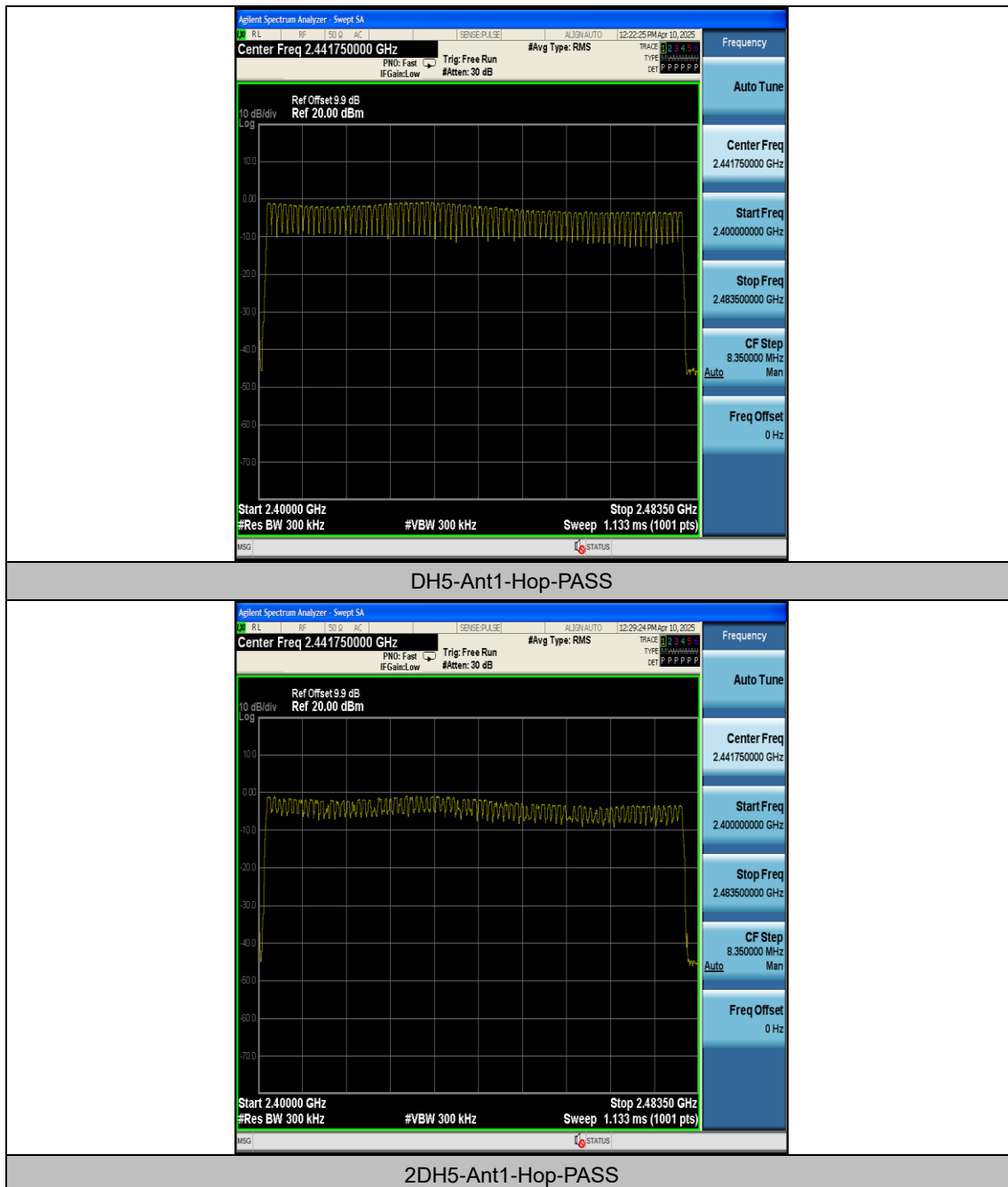
Appendix F: Number of hopping channels

Test Result

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

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

Test Graphs



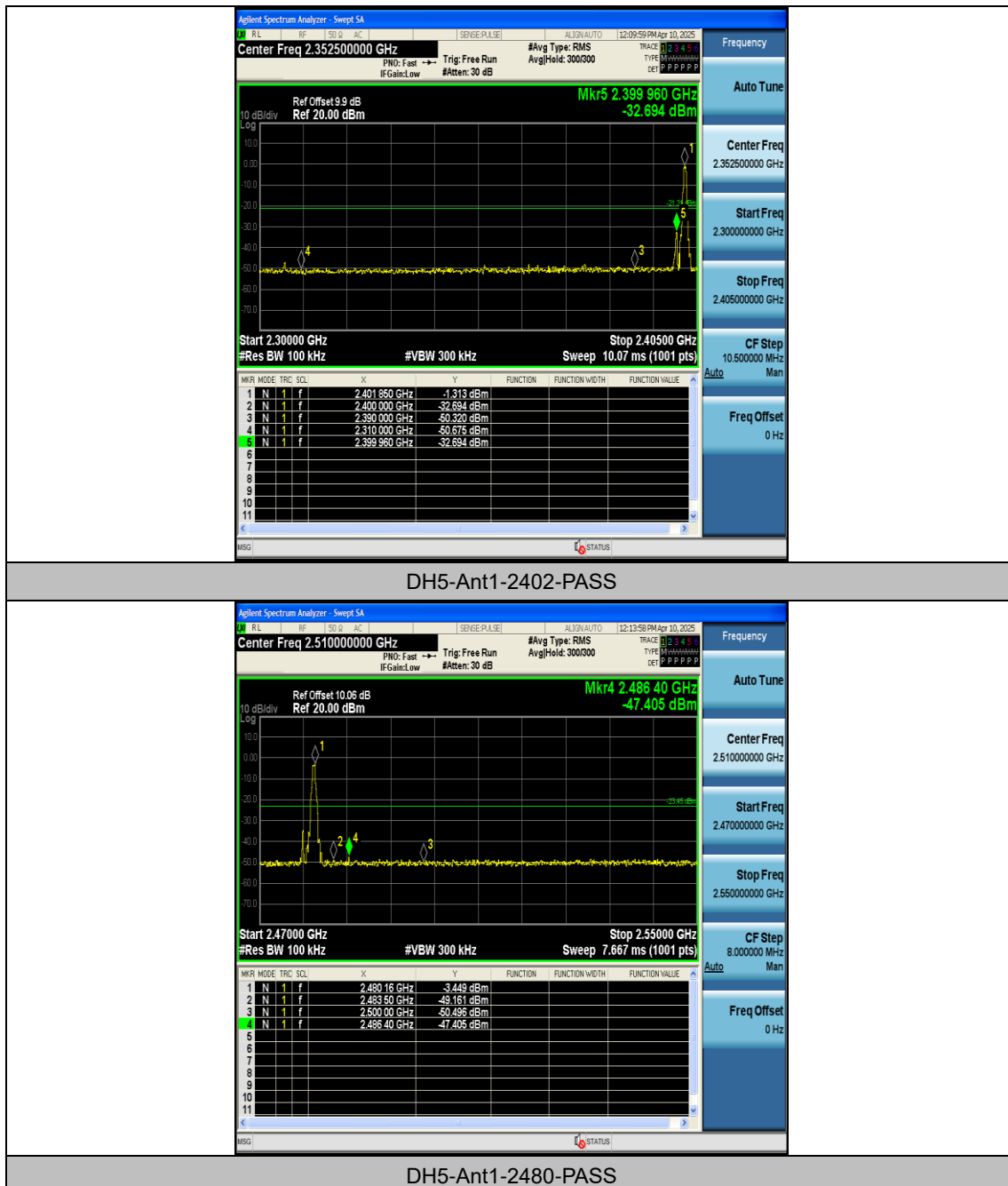
Appendix G: Band edge measurements

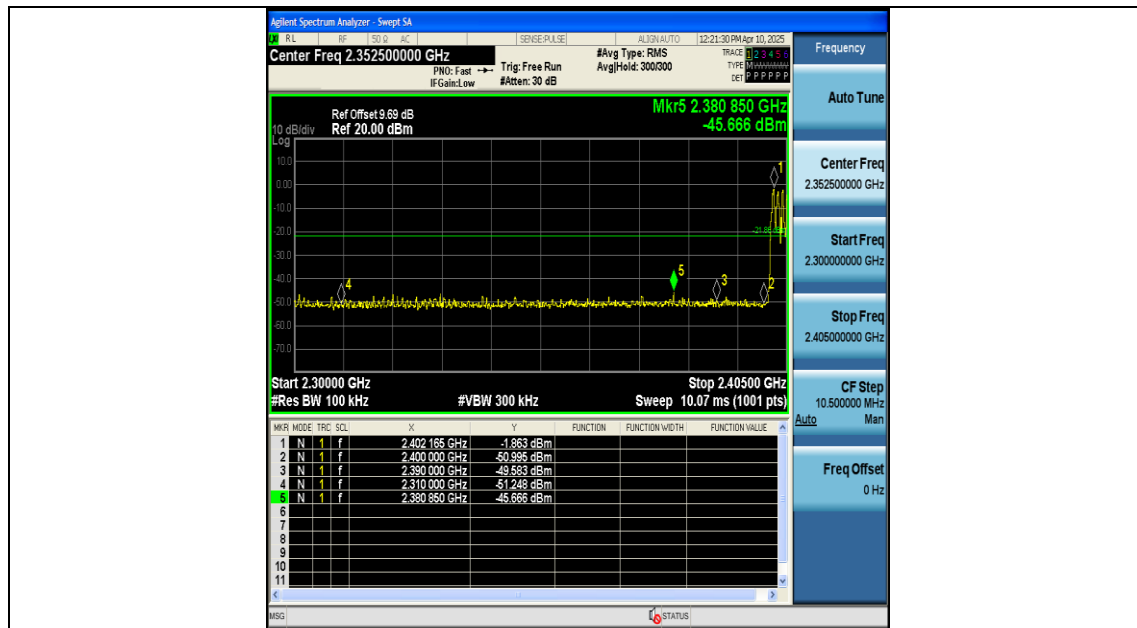
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.31	-32.69	≤-21.31	PASS
DH5	Ant1	High	2480	-3.45	-47.41	≤-23.45	PASS
DH5	Ant1	Low	Hop_2402	-1.86	-45.67	≤-21.86	PASS
DH5	Ant1	High	Hop_2480	-3.54	-45.71	≤-23.54	PASS
2DH5	Ant1	Low	2402	-2.80	-32.24	≤-22.8	PASS
2DH5	Ant1	High	2480	-4.88	-46.95	≤-24.88	PASS
2DH5	Ant1	Low	Hop_2402	-2.41	-46.57	≤-22.41	PASS
2DH5	Ant1	High	Hop_2480	-6.85	-46.17	≤-26.85	PASS

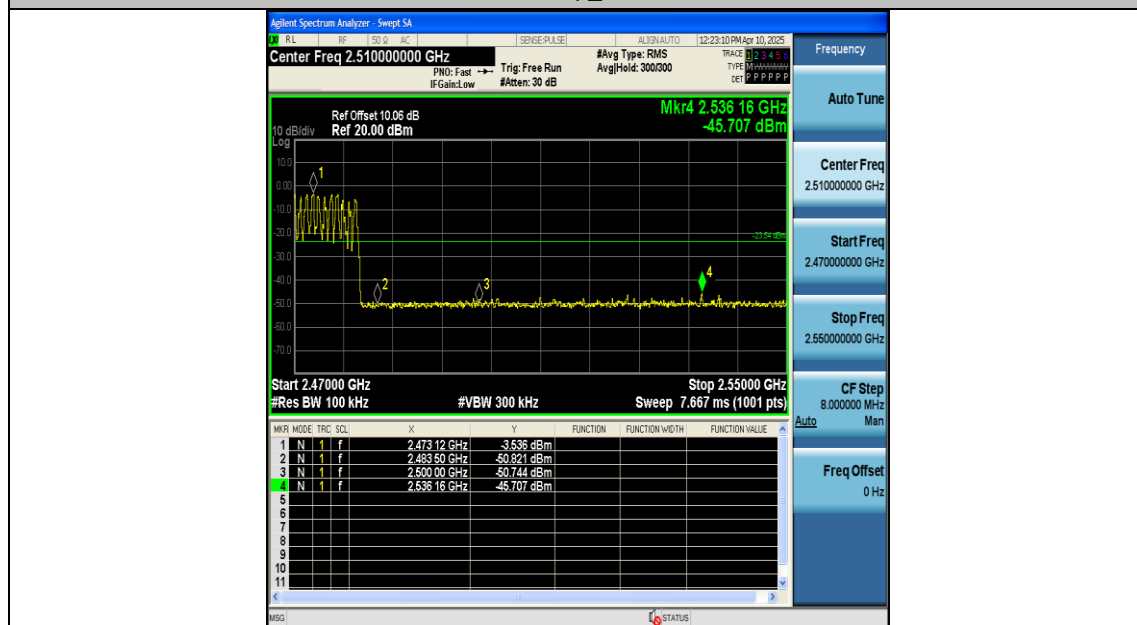
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

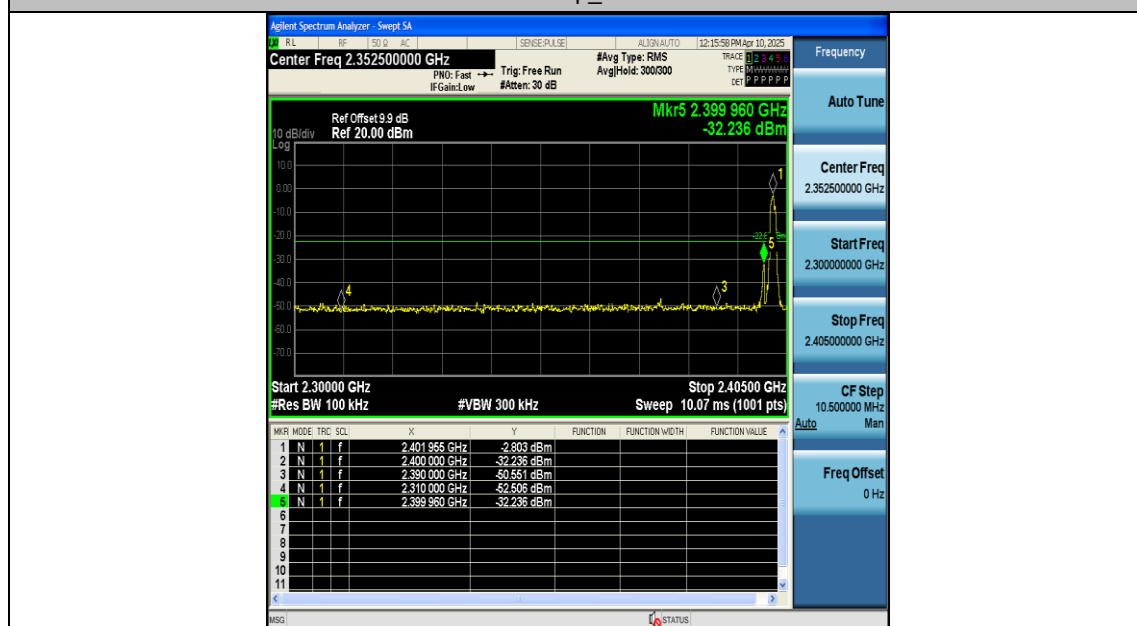




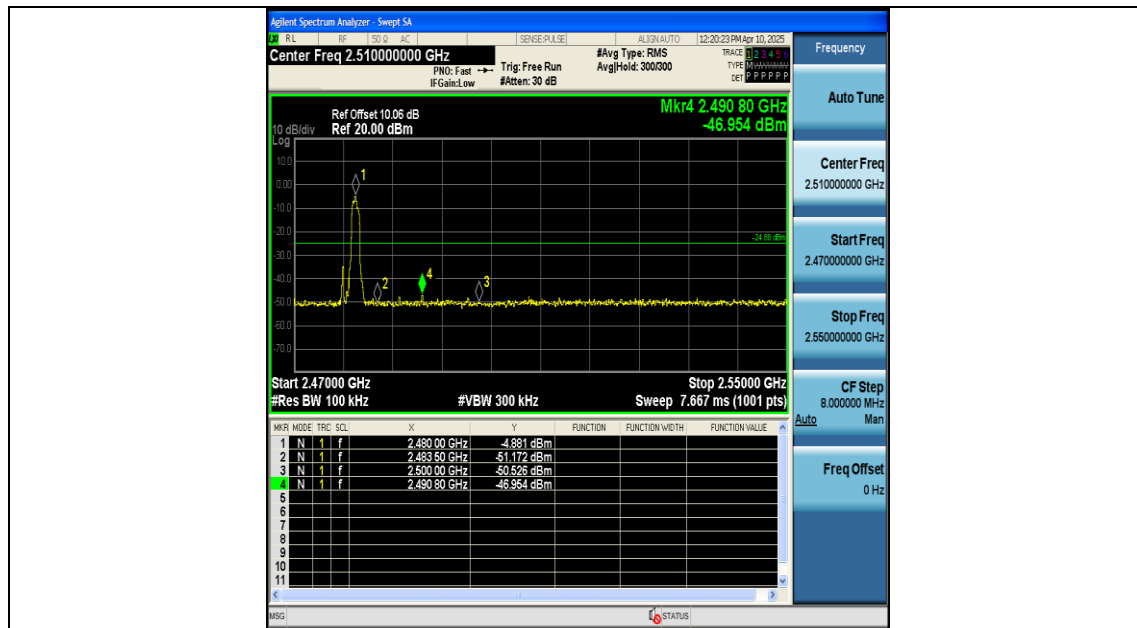
DH5-Ant1-Hop_2402-PASS



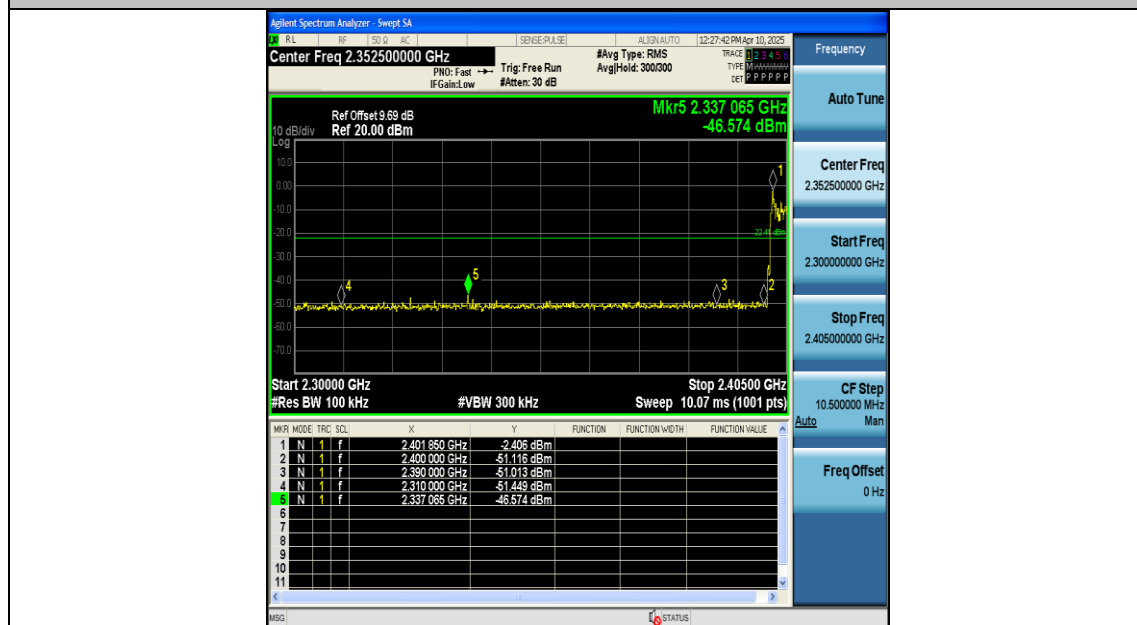
DH5-Ant1-Hop_2480-PASS



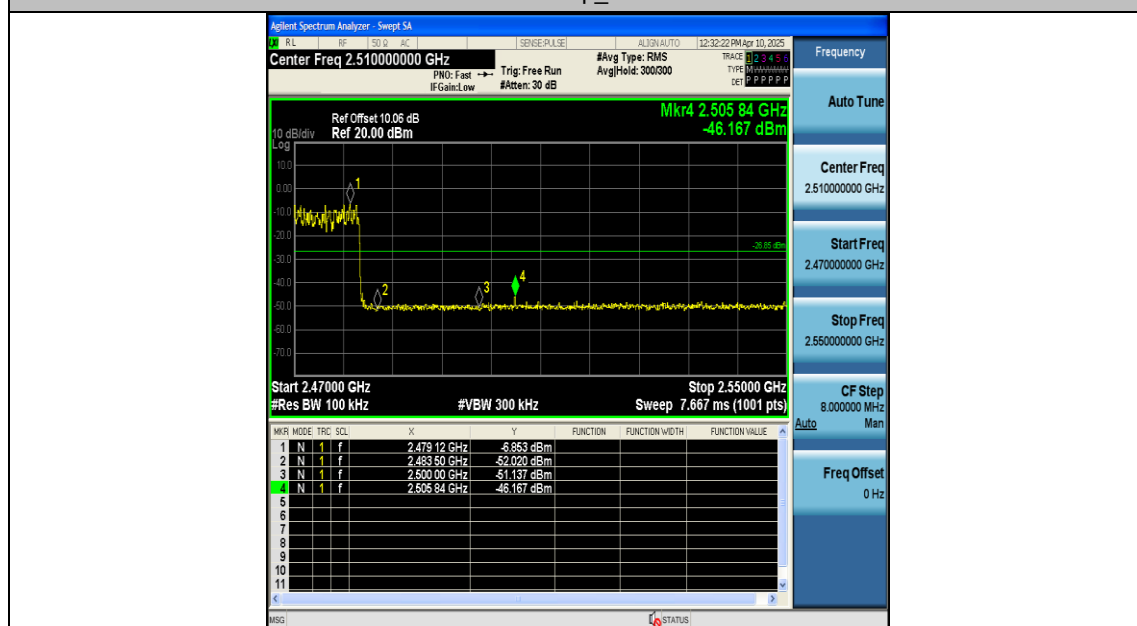
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

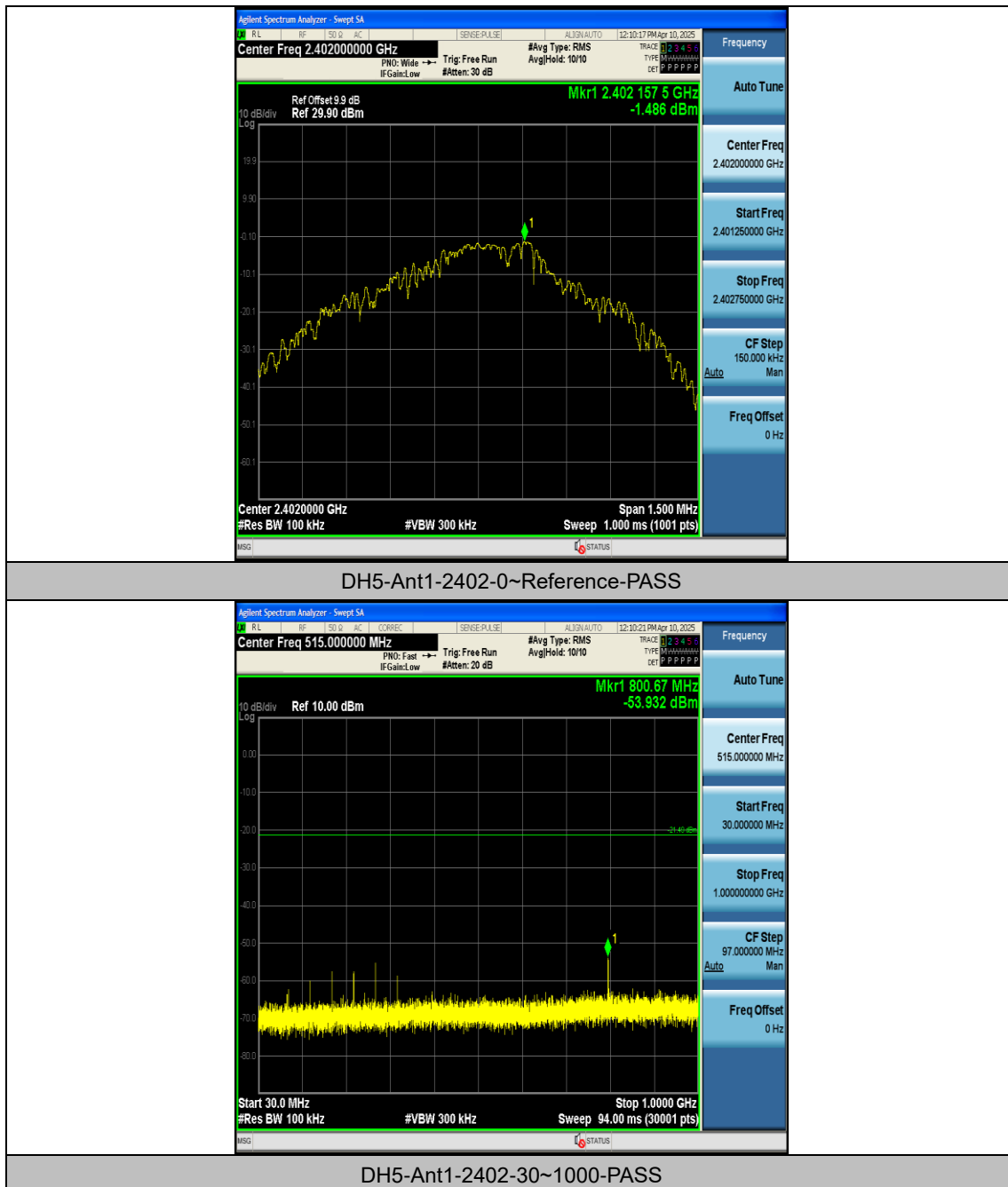
Appendix H: Conducted Spurious Emission

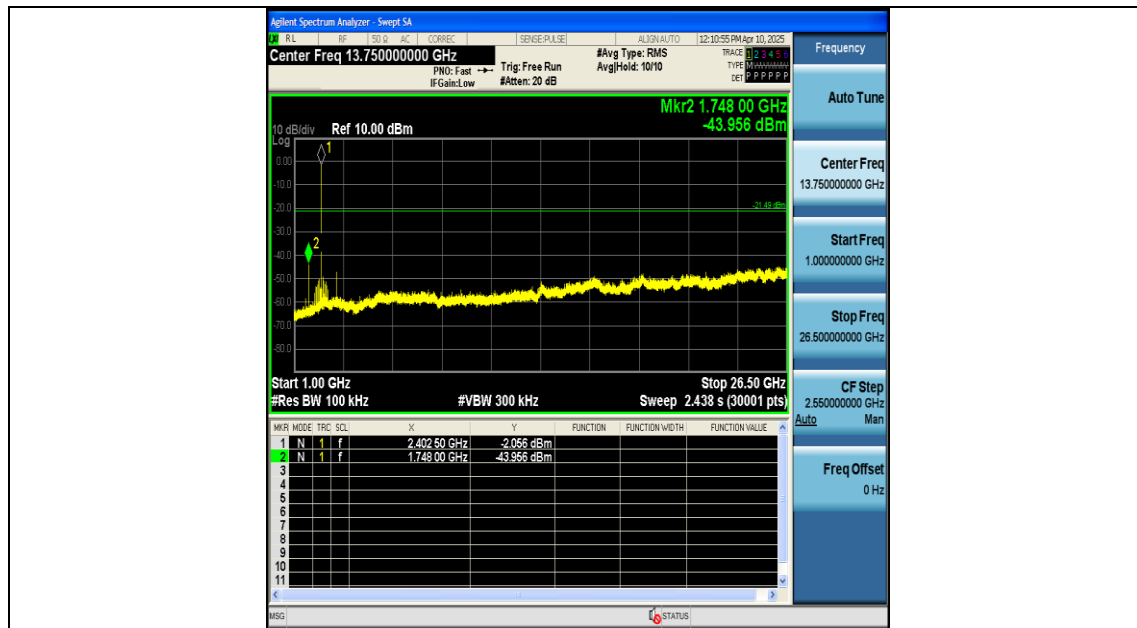
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.49	-1.49	---	PASS
DH5	Ant1	2402	30~1000	-1.49	-53.93	≤-21.49	PASS
DH5	Ant1	2402	1000~26500	-1.49	-43.96	≤-21.49	PASS
DH5	Ant1	2441	0~Reference	-2.31	-2.31	---	PASS
DH5	Ant1	2441	30~1000	-2.31	-54.5	≤-22.31	PASS
DH5	Ant1	2441	1000~26500	-2.31	-43.71	≤-22.31	PASS
DH5	Ant1	2480	0~Reference	-3.59	-3.59	---	PASS
DH5	Ant1	2480	30~1000	-3.59	-57.28	≤-23.59	PASS
DH5	Ant1	2480	1000~26500	-3.59	-44.46	≤-23.59	PASS
2DH5	Ant1	2402	0~Reference	-4.71	-4.71	---	PASS
2DH5	Ant1	2402	30~1000	-4.71	-55.53	≤-24.71	PASS
2DH5	Ant1	2402	1000~26500	-4.71	-43.3	≤-24.71	PASS
2DH5	Ant1	2441	0~Reference	-5.17	-5.17	---	PASS
2DH5	Ant1	2441	30~1000	-5.17	-55.58	≤-25.17	PASS
2DH5	Ant1	2441	1000~26500	-5.17	-44.48	≤-25.17	PASS
2DH5	Ant1	2480	0~Reference	-6.92	-6.92	---	PASS
2DH5	Ant1	2480	30~1000	-6.92	-54.93	≤-26.92	PASS
2DH5	Ant1	2480	1000~26500	-6.92	-43.9	≤-26.92	PASS

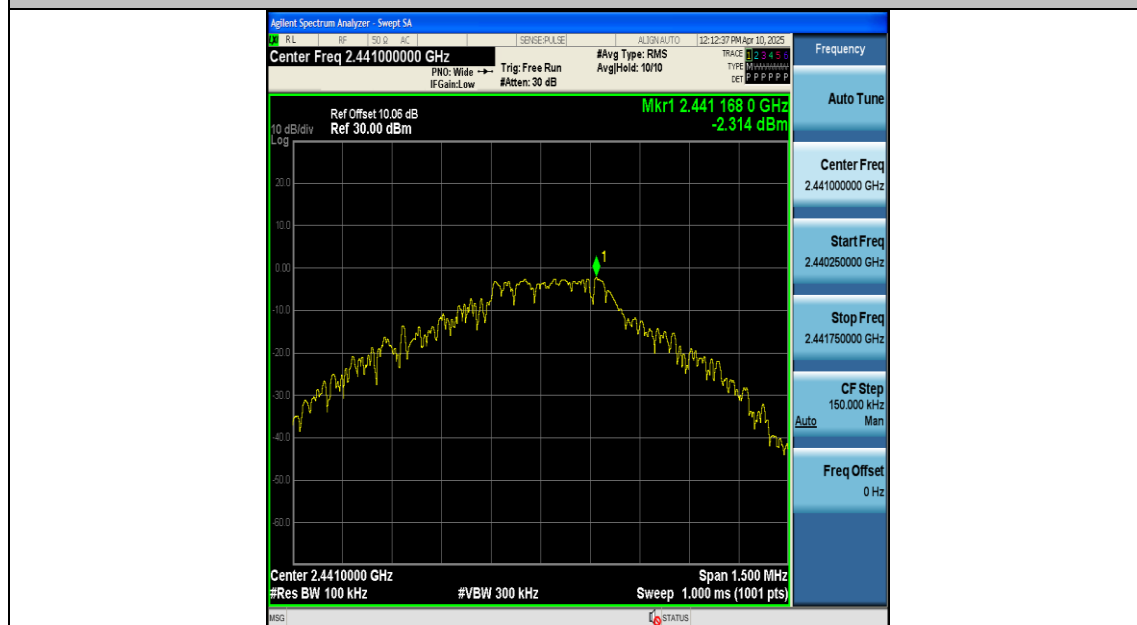
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

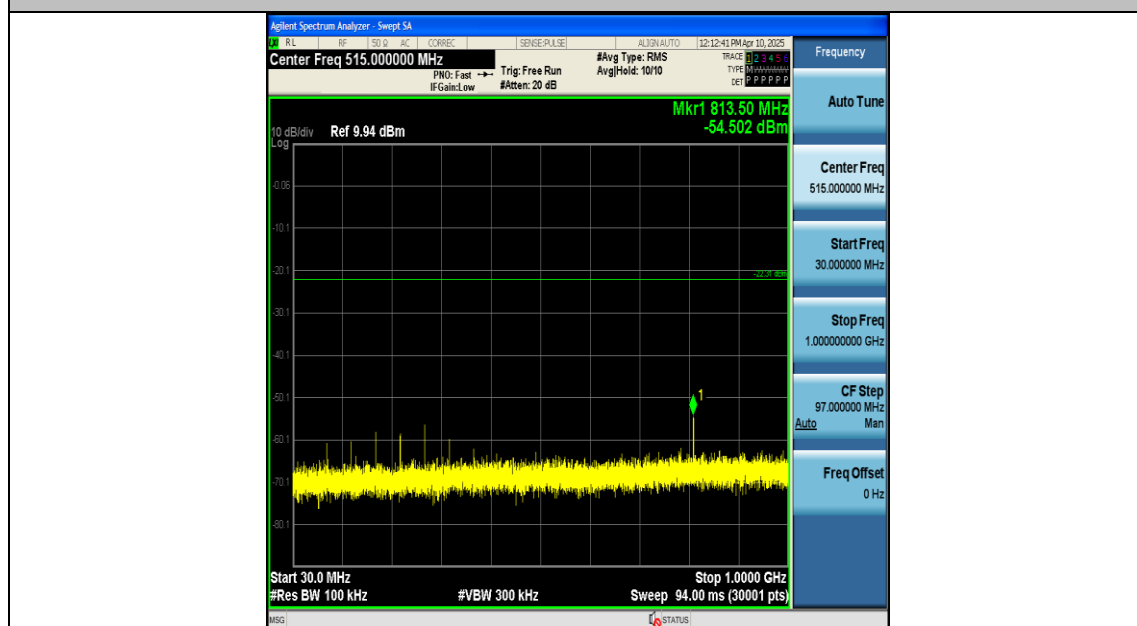




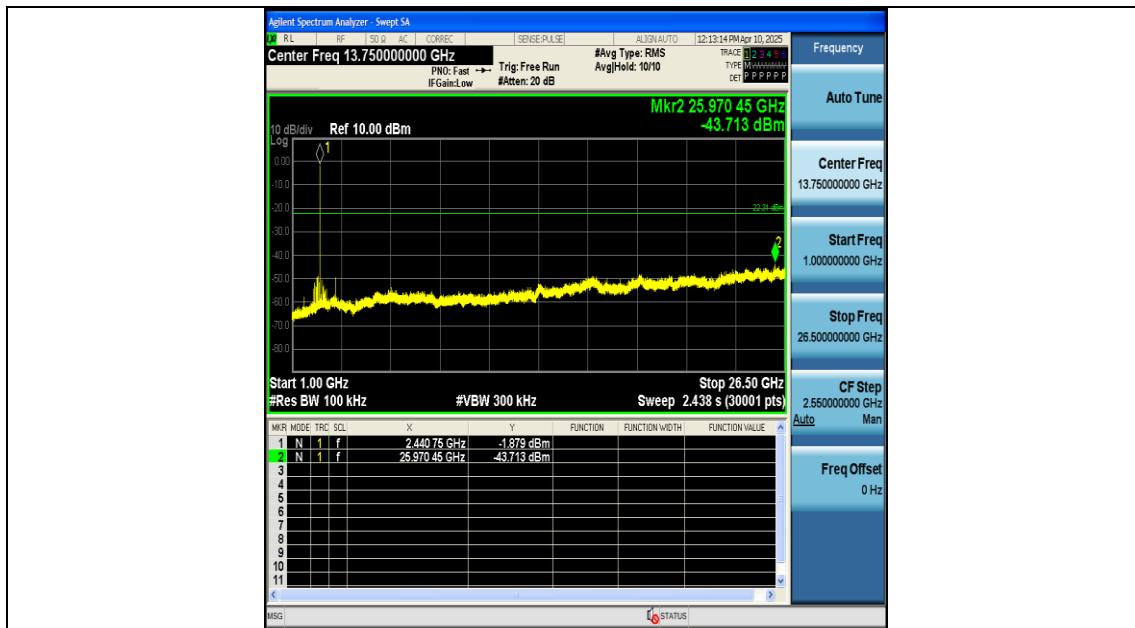
DH5-Ant1-2402-1000~26500-PASS



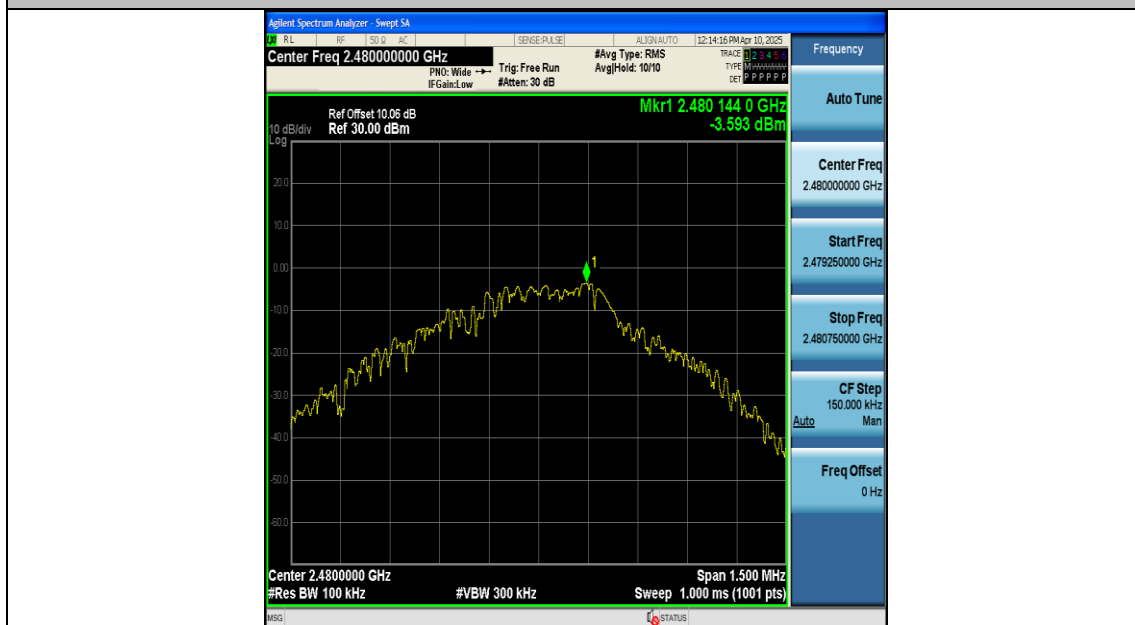
DH5-Ant1-2441-0~Reference-PASS



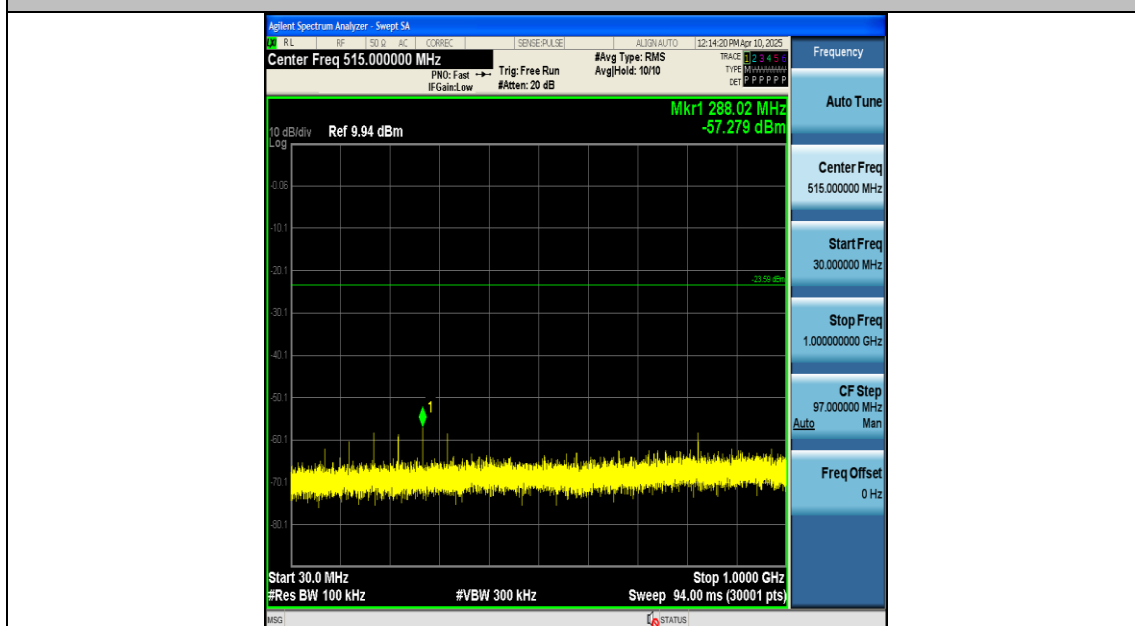
DH5-Ant1-2441-30~1000-PASS



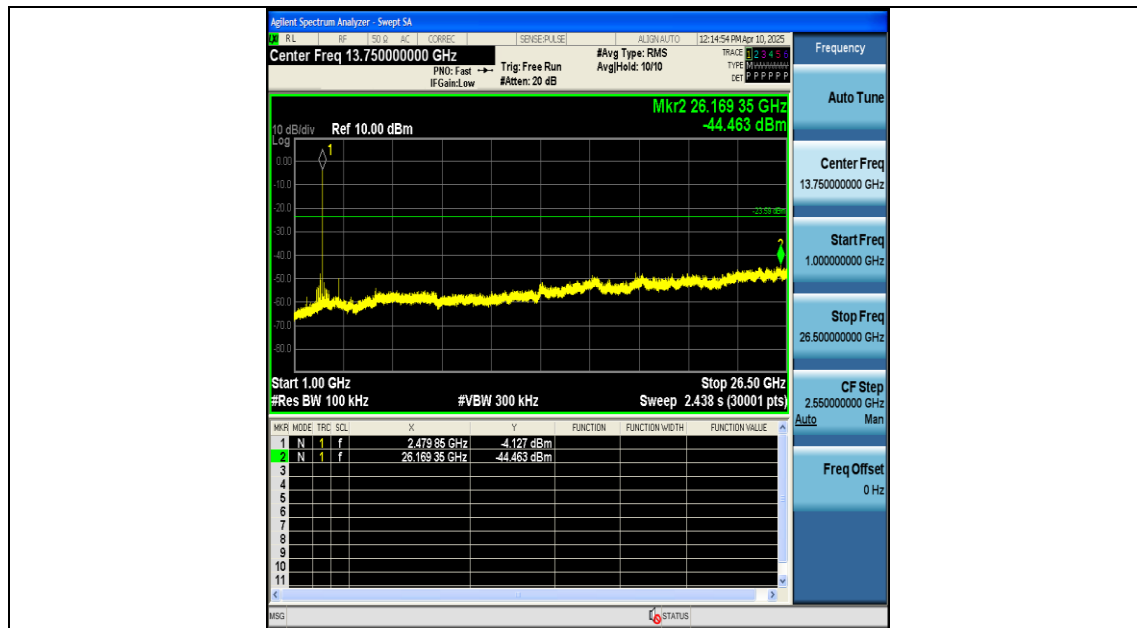
DH5-Ant1-2441-1000~26500-PASS



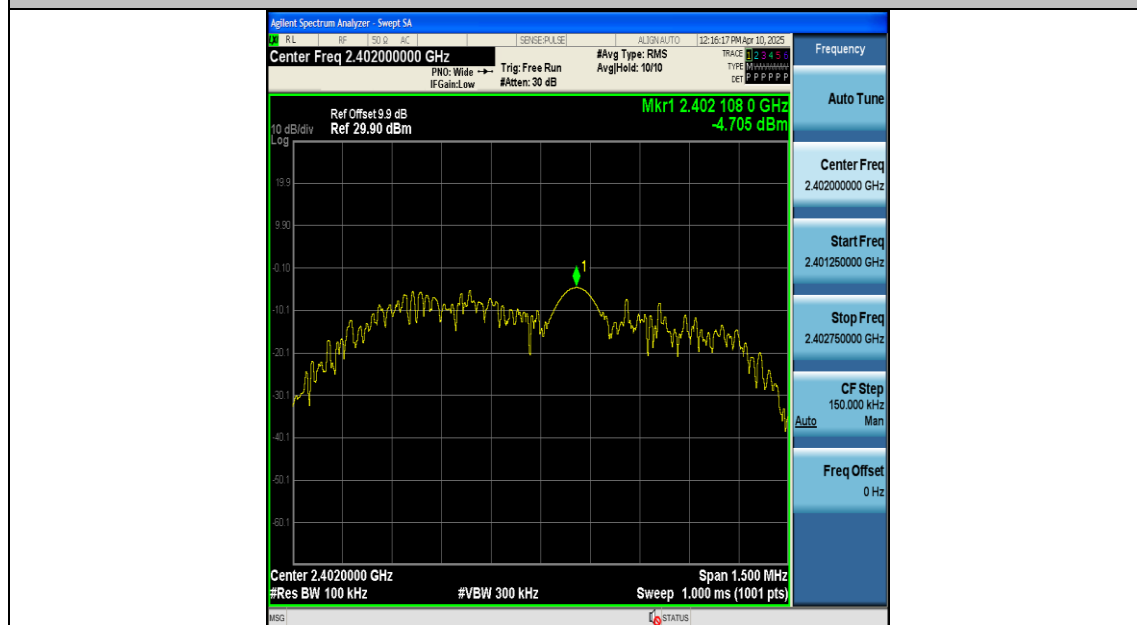
DH5-Ant1-2480-0~Reference-PASS



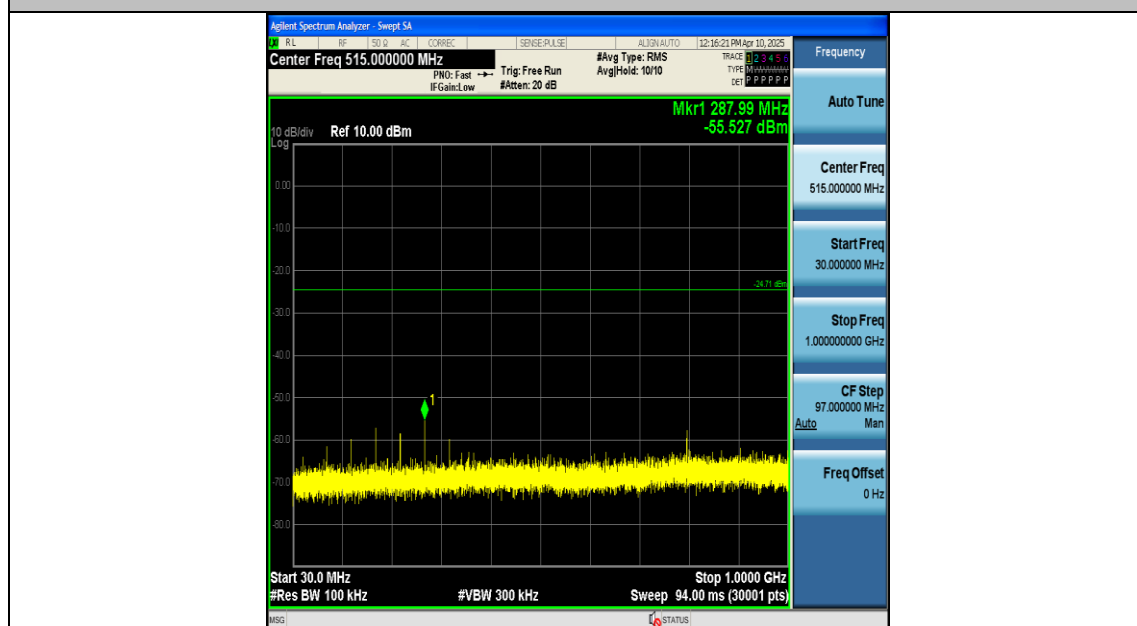
DH5-Ant1-2480-30~1000-PASS



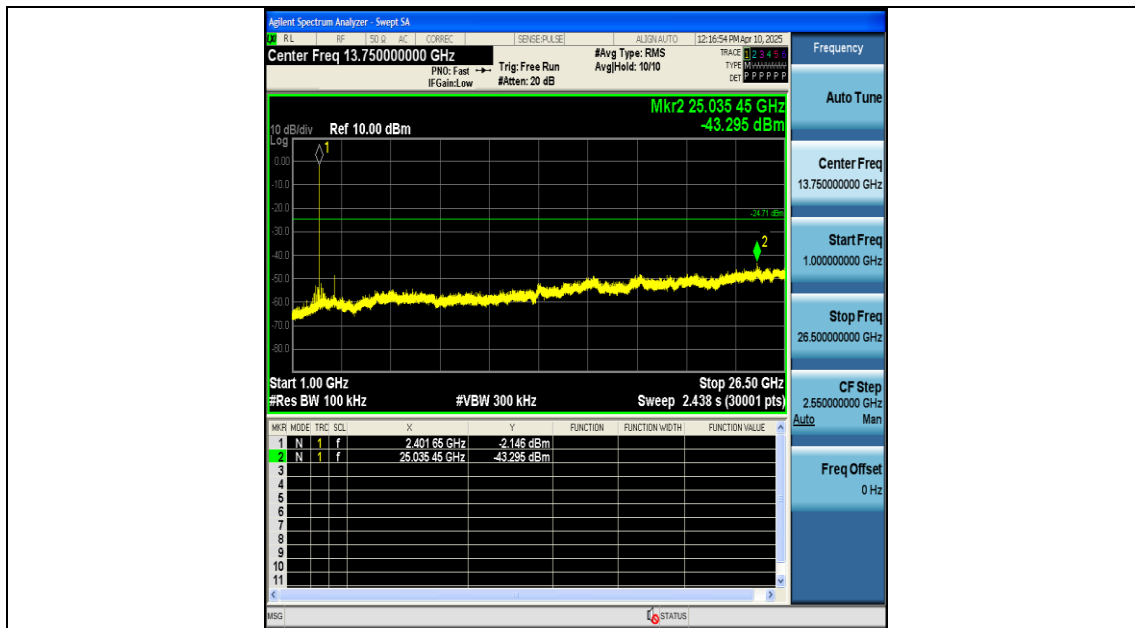
DH5-Ant1-2480-1000~26500-PASS



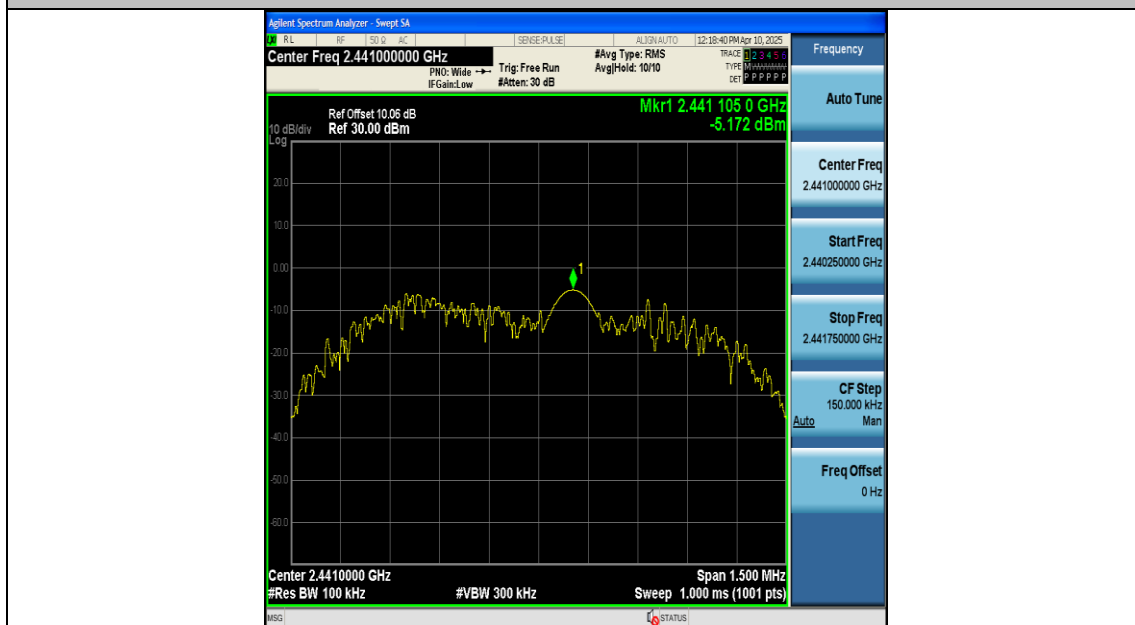
2DH5-Ant1-2402-0~Reference-PASS



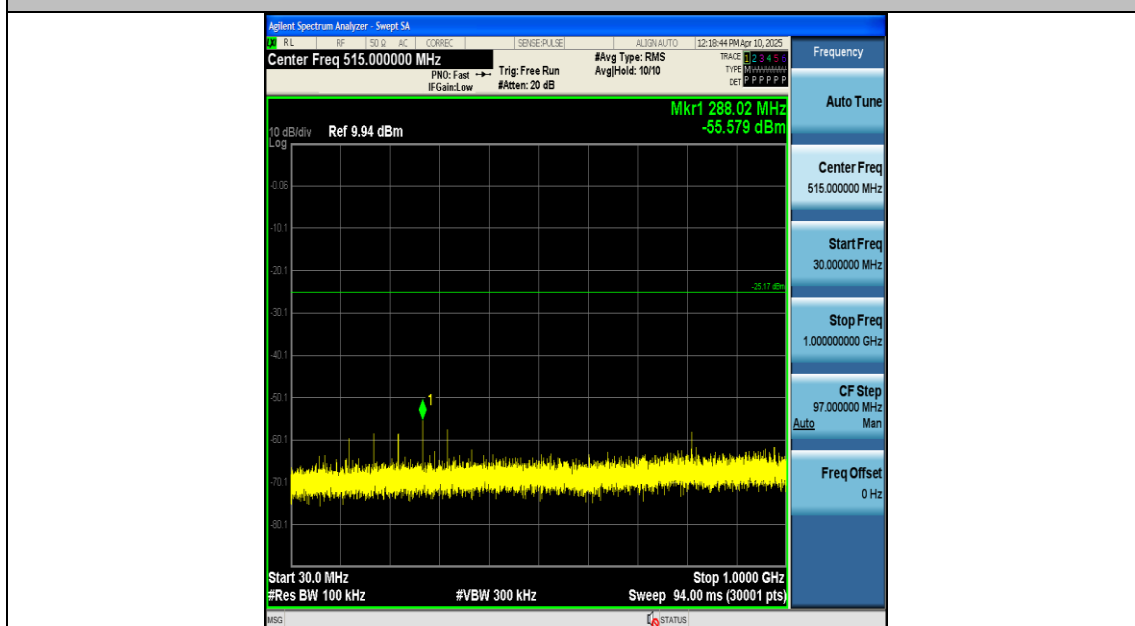
2DH5-Ant1-2402-30~1000-PASS



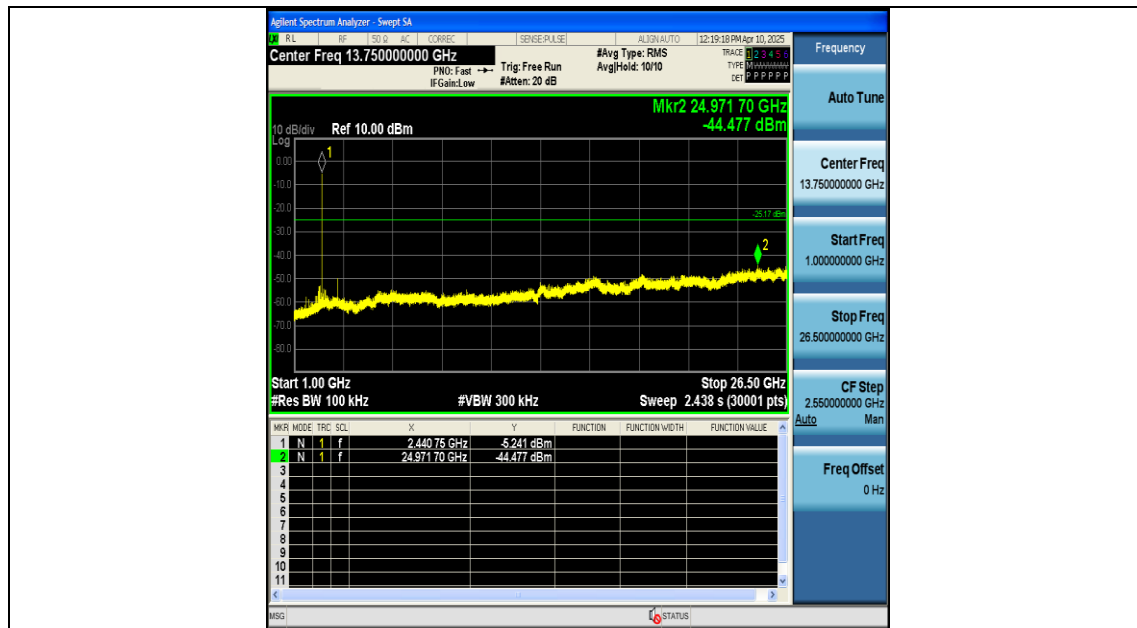
2DH5-Ant1-2402-1000~26500-PASS



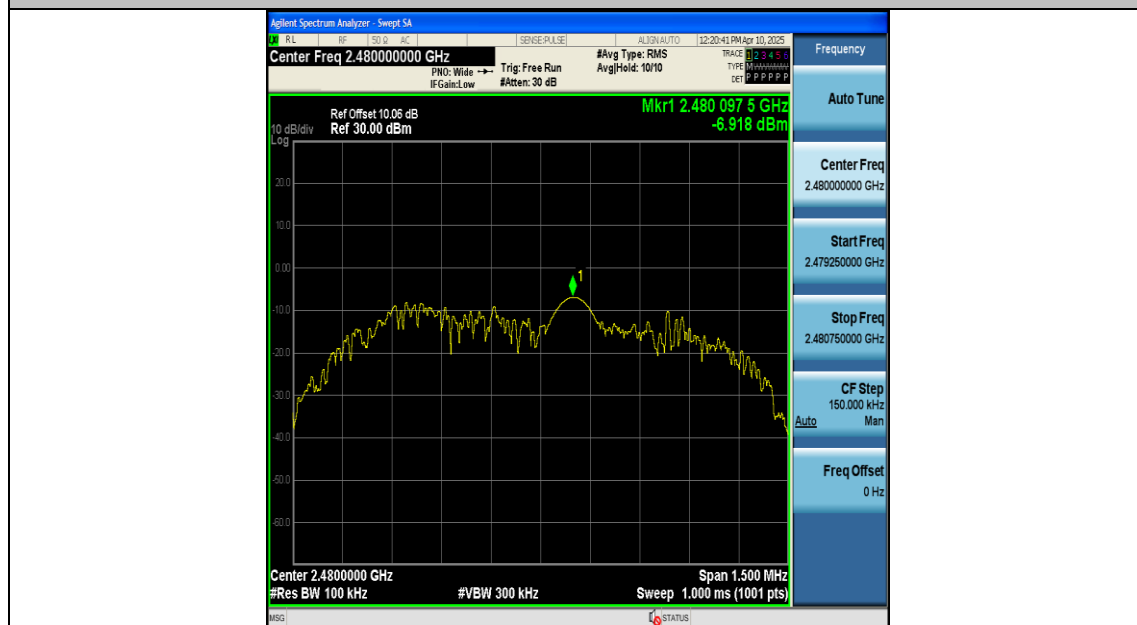
2DH5-Ant1-2441-0~Reference-PASS



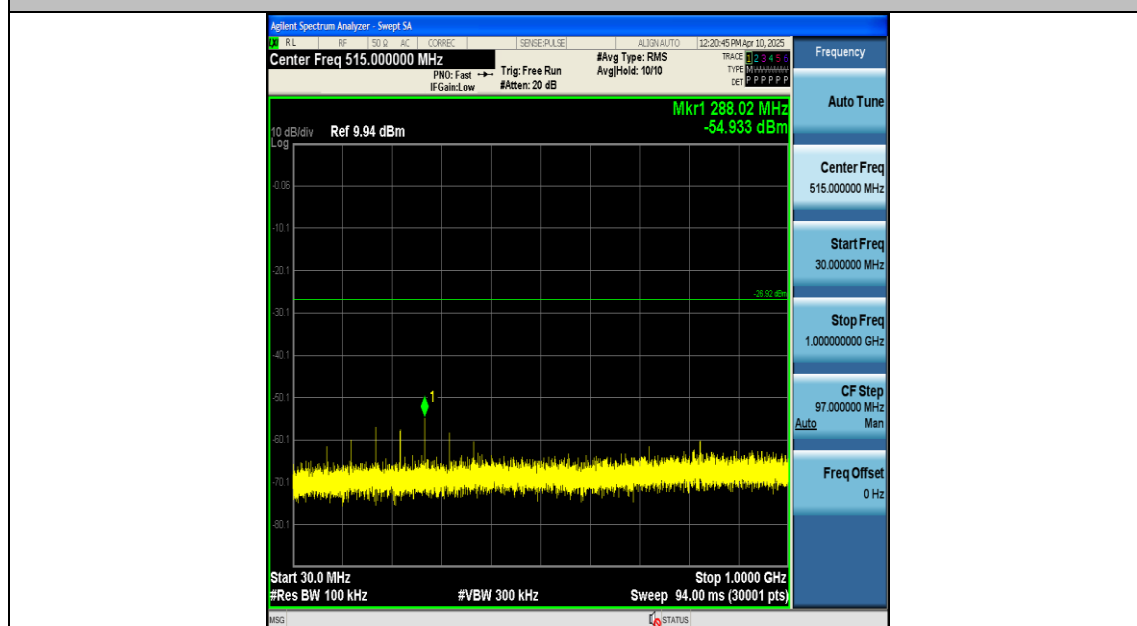
2DH5-Ant1-2441-30~1000-PASS



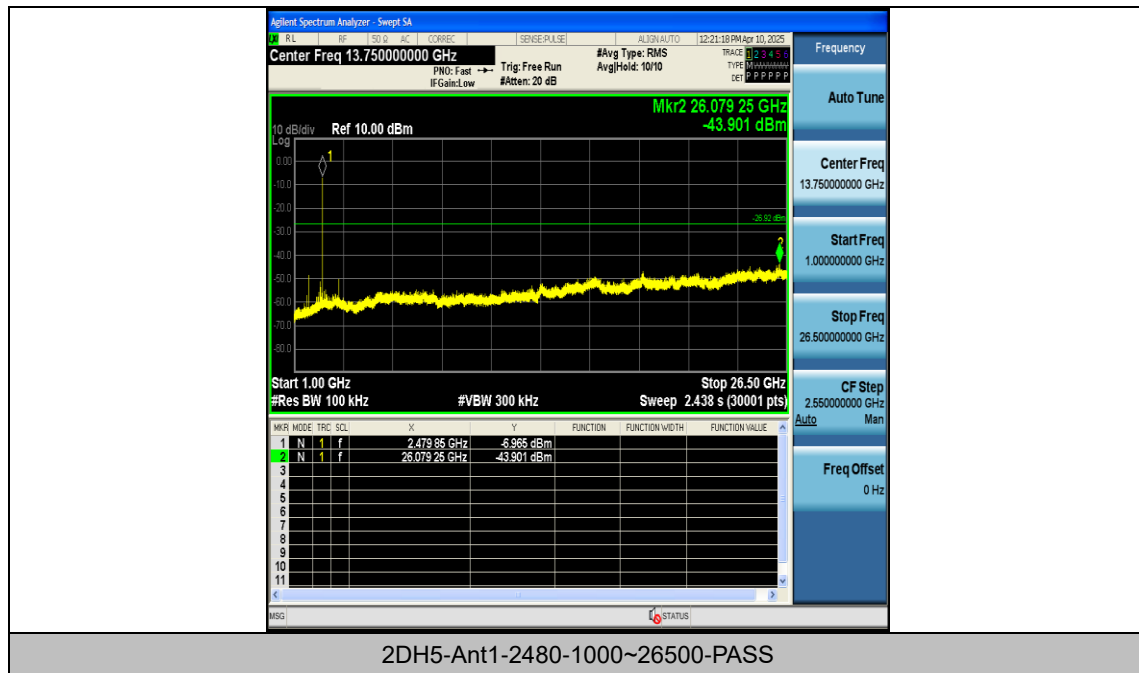
2DH5-Ant1-2441-1000~26500-PASS



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



2DH5-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	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15

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

Test Graphs

