



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

Product Name: EAR BUDS PB

Trade Mark: /

Test Model: 336925

FCC ID: 2A00Y-336925

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	0.963	2401.547	2402.510	---	---
DH5	Ant1	2441	0.960	2440.550	2441.510	---	---
DH5	Ant1	2480	0.954	2479.556	2480.510	---	---
2DH5	Ant1	2402	1.269	2401.394	2402.663	---	---
2DH5	Ant1	2441	1.200	2440.415	2441.615	---	---
2DH5	Ant1	2480	1.230	2479.397	2480.627	---	---
3DH5	Ant1	2402	1.245	2401.385	2402.630	---	---
3DH5	Ant1	2441	1.248	2440.385	2441.633	---	---
3DH5	Ant1	2480	1.248	2479.388	2480.636	---	---

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





Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402





2DH5-Ant1-2441



2DH5-Ant1-2480





3DH5-Ant1-2402



3DH5-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	0.86058	2401.5839	2402.4445	---	---
DH5	Ant1	2441	0.88040	2440.5746	2441.4550	---	---
DH5	Ant1	2480	0.86999	2479.5822	2480.4522	---	---
2DH5	Ant1	2402	1.1567	2401.4382	2402.5949	---	---
2DH5	Ant1	2441	1.1393	2440.4489	2441.5882	---	---
2DH5	Ant1	2480	1.1616	2479.4371	2480.5987	---	---
3DH5	Ant1	2402	1.1448	2401.4485	2402.5933	---	---
3DH5	Ant1	2441	1.1546	2440.4437	2441.5983	---	---
3DH5	Ant1	2480	1.1519	2479.4437	2480.5956	---	---

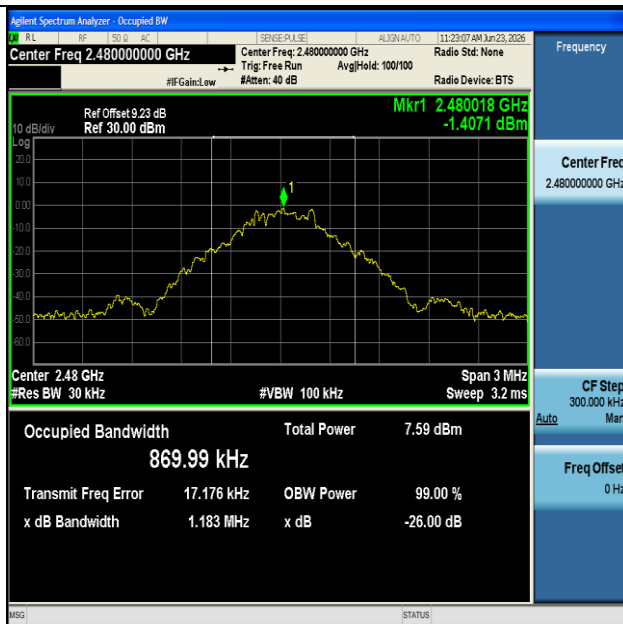
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



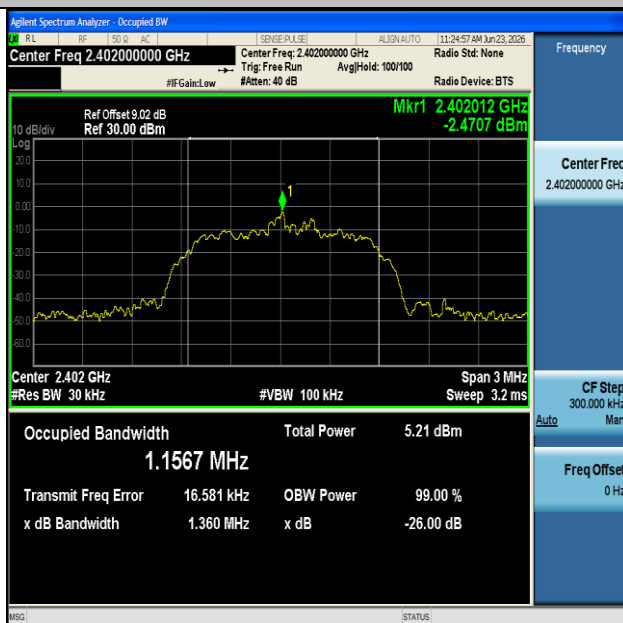


Test Graphs





DH5-Ant1-2480

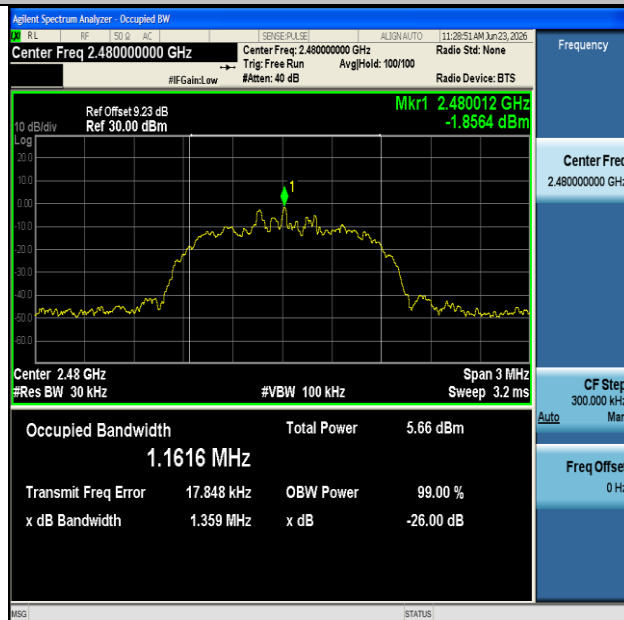


2DH5-Ant1-2402





2DH5-Ant1-2441



2DH5-Ant1-2480



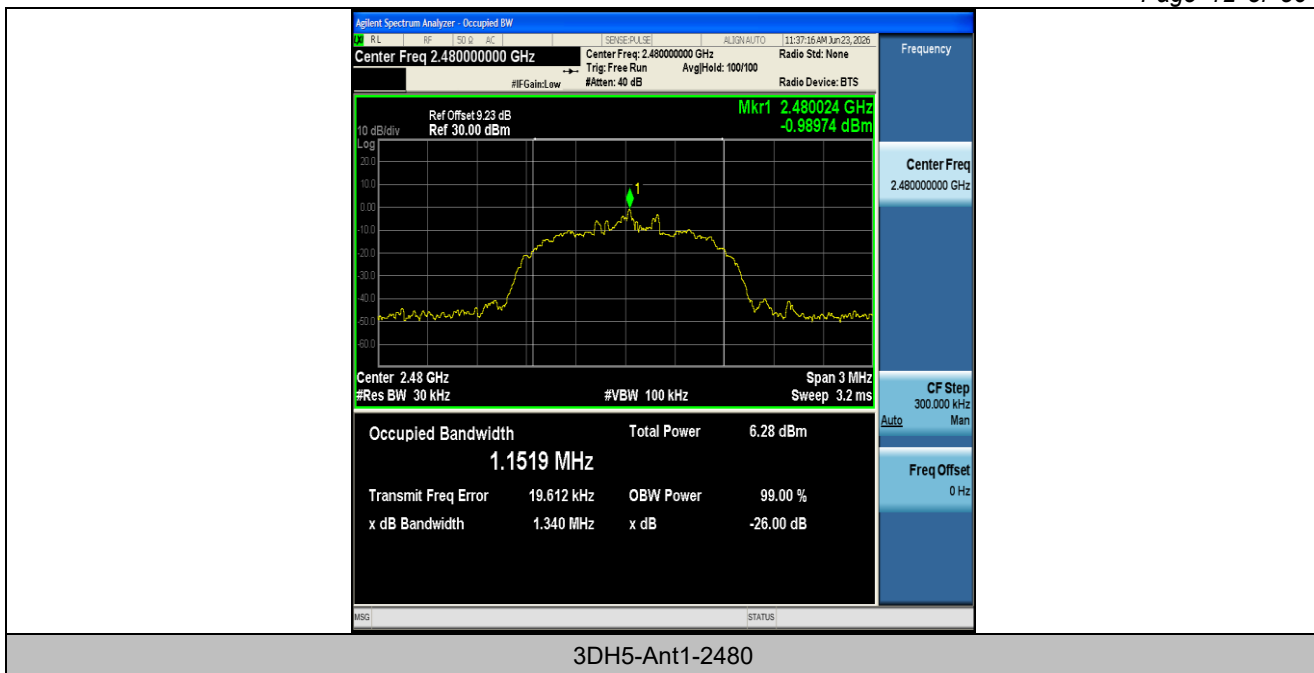


3DH5-Ant1-2402



3DH5-Ant1-2441





3DH5-Ant1-2480





Appendix C: Maximum peak conducted output power

Test Result

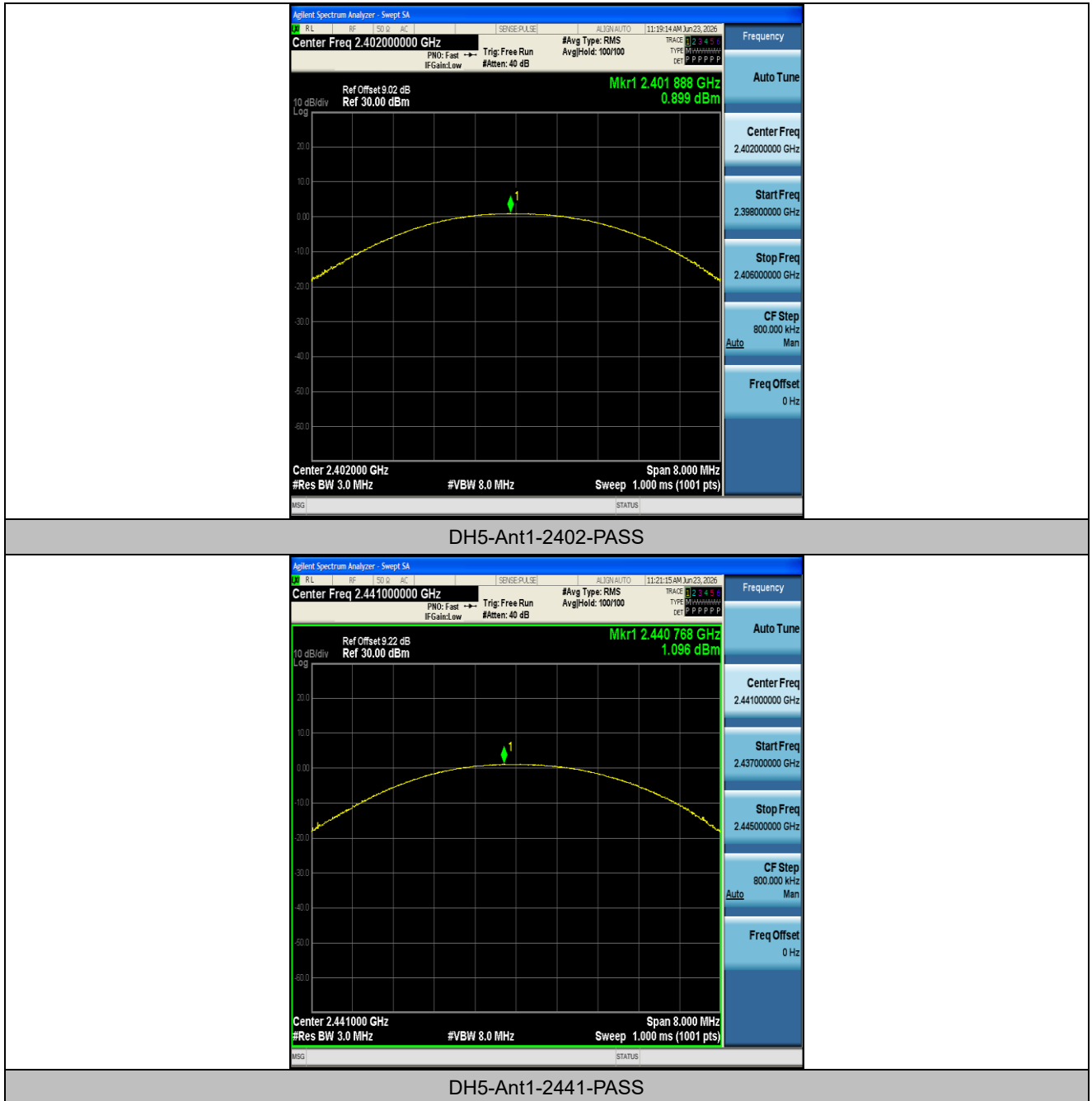
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.90	≤30	PASS
DH5	Ant1	2441	1.10	≤30	PASS
DH5	Ant1	2480	0.93	≤30	PASS
2DH5	Ant1	2402	0.70	≤20.97	PASS
2DH5	Ant1	2441	0.93	≤20.97	PASS
2DH5	Ant1	2480	1.22	≤20.97	PASS
3DH5	Ant1	2402	0.75	≤20.97	PASS
3DH5	Ant1	2441	0.96	≤20.97	PASS
3DH5	Ant1	2480	1.31	≤20.97	PASS

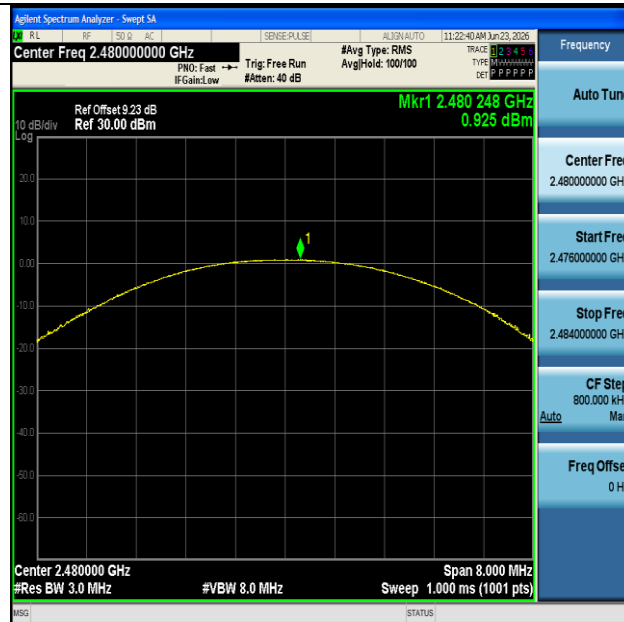
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



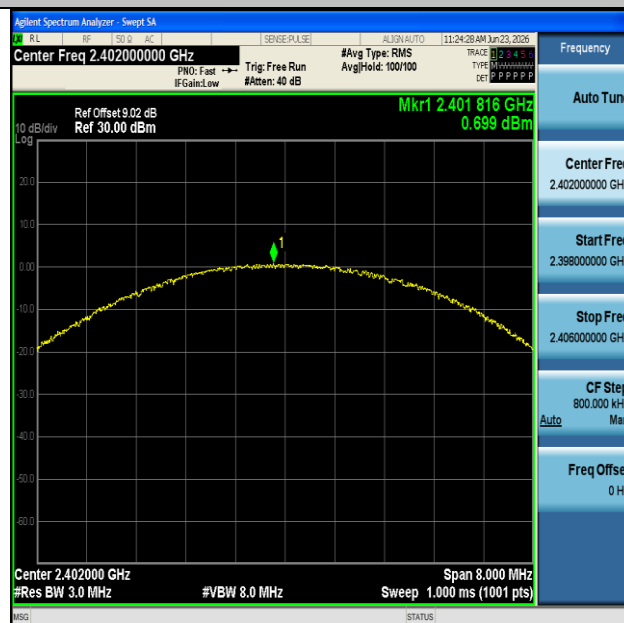


Test Graphs



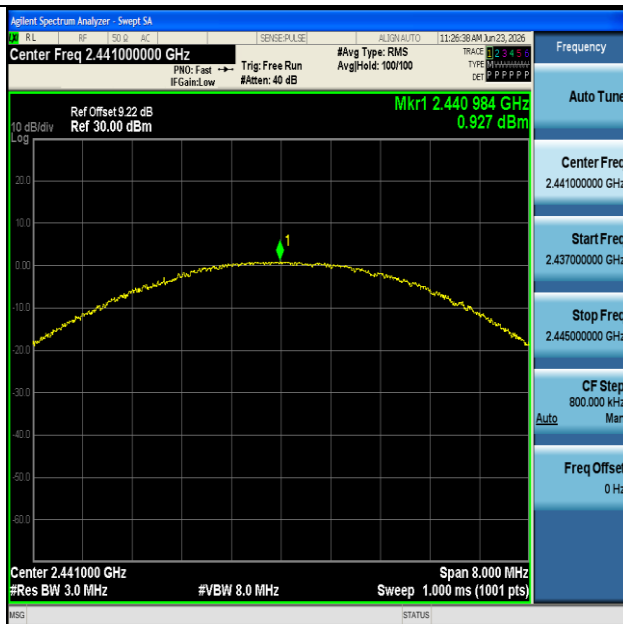


DH5-Ant1-2480-PASS

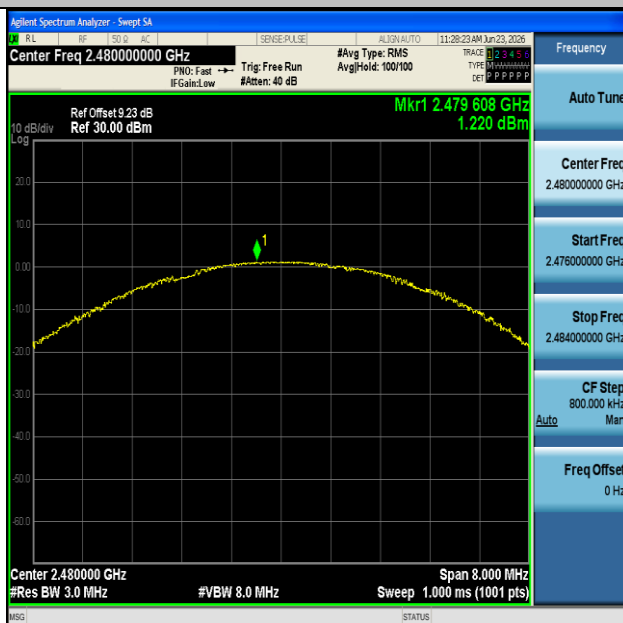


2DH5-Ant1-2402-PASS



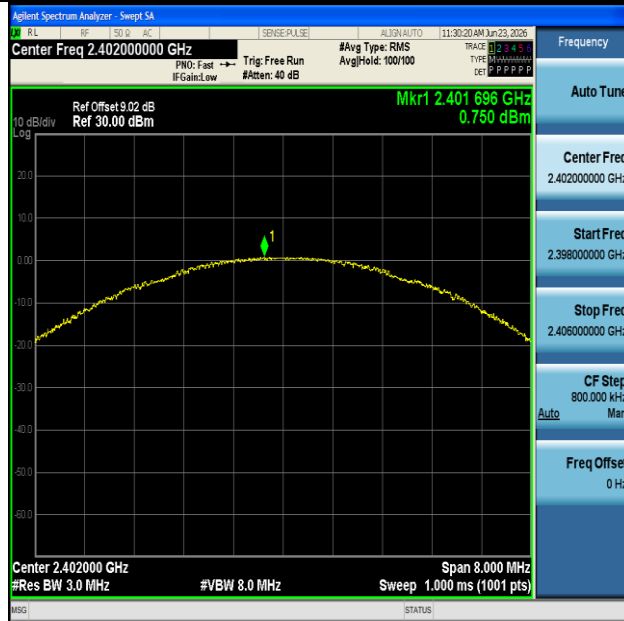


2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS



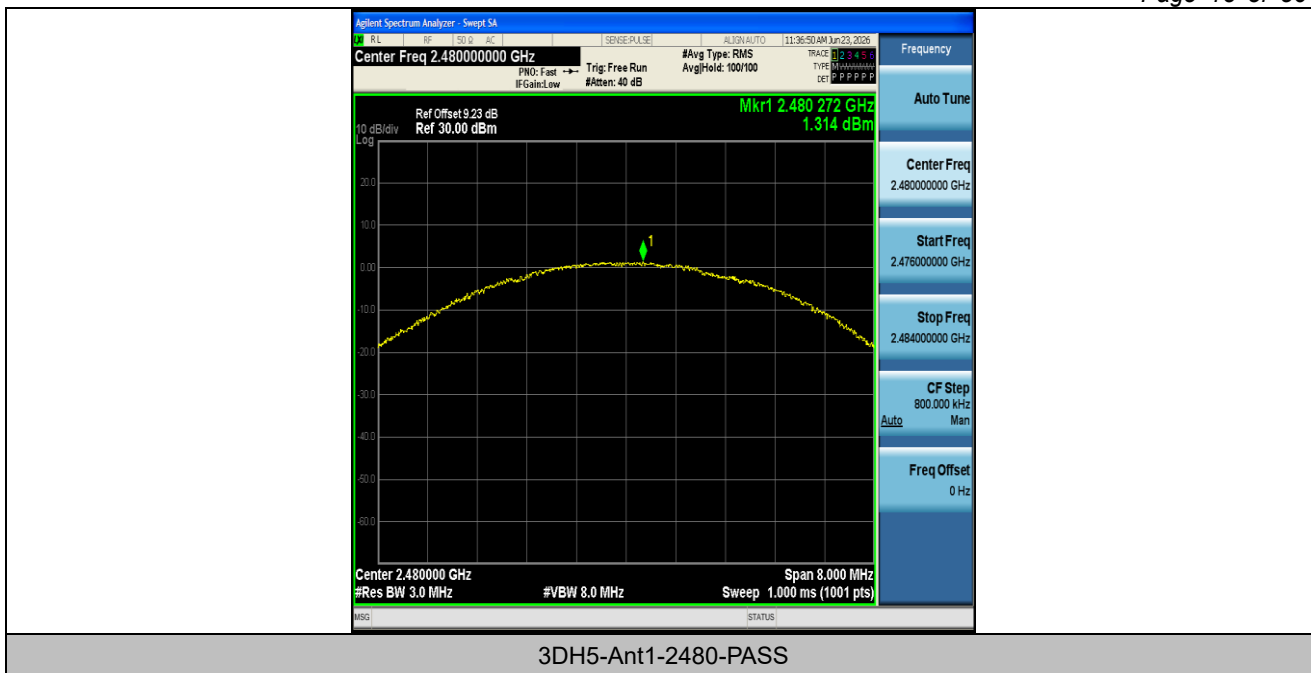


3DH5-Ant1-2402-PASS



3DH5-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	≥ 0.963	PASS
2DH5	Ant1	Hop	1.024	≥ 0.846	PASS
3DH5	Ant1	Hop	1.006	≥ 0.832	PASS

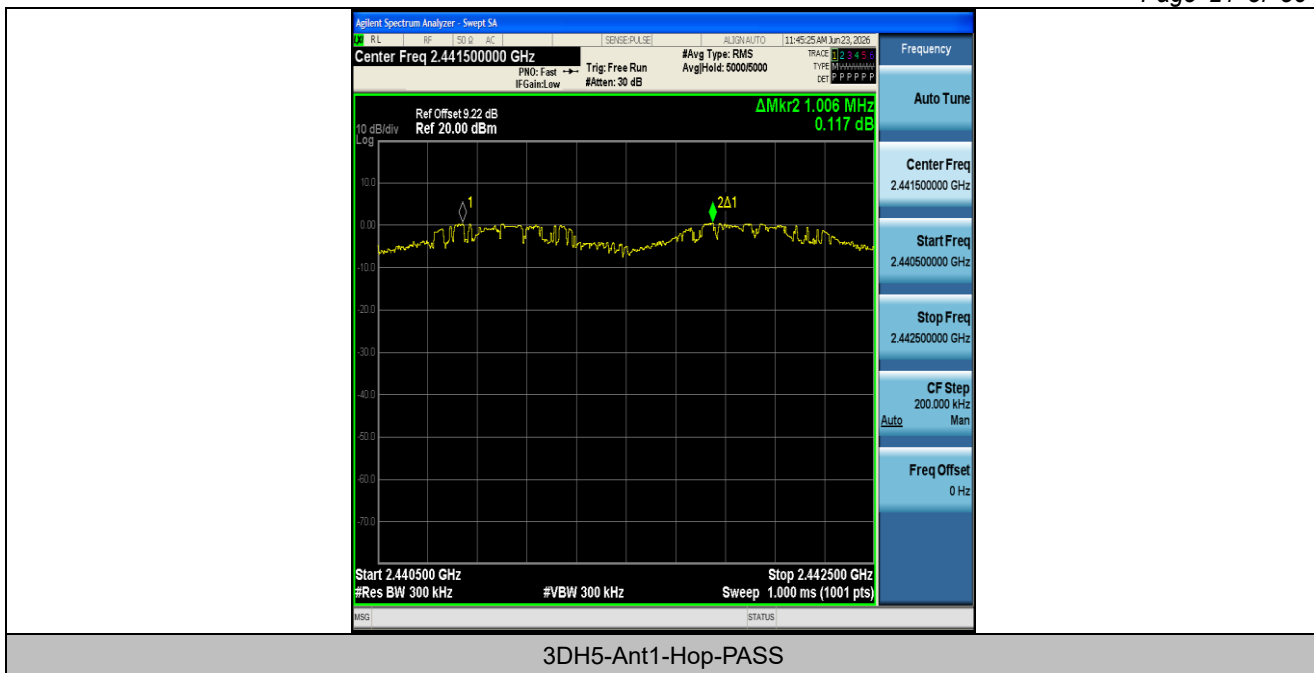
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Time of occupancy

Test Result

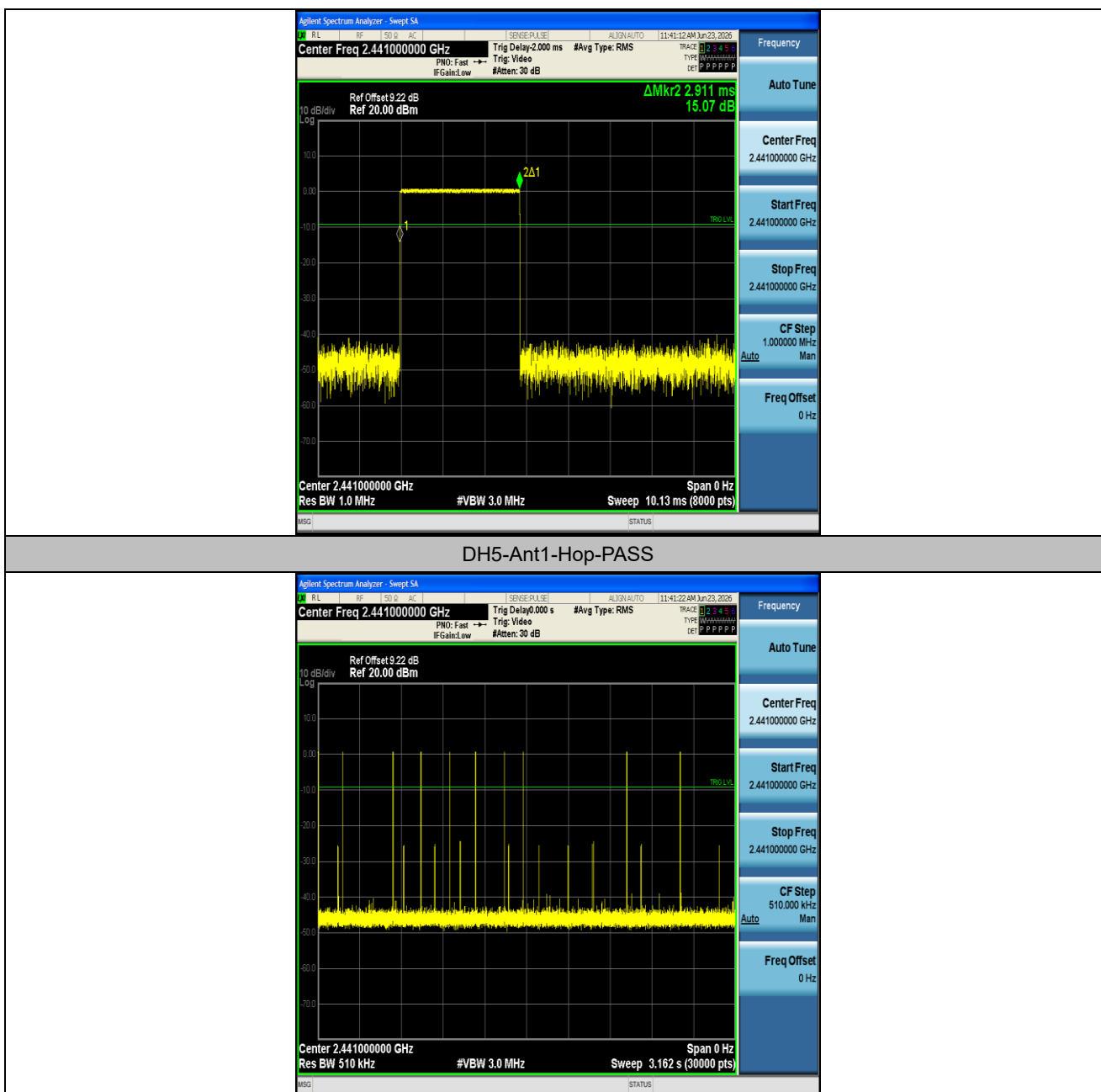
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.911	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.916	80	0.233	≤0.4	PASS
3DH5	Ant1	Hop	2.917	80	0.233	≤0.4	PASS

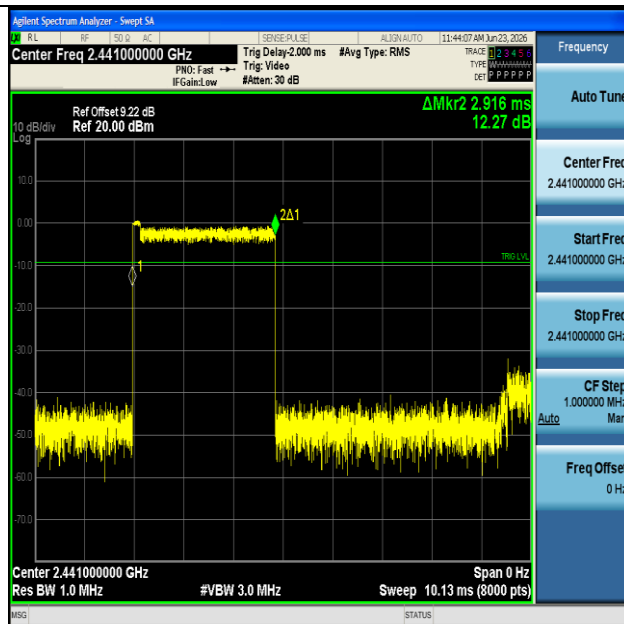
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



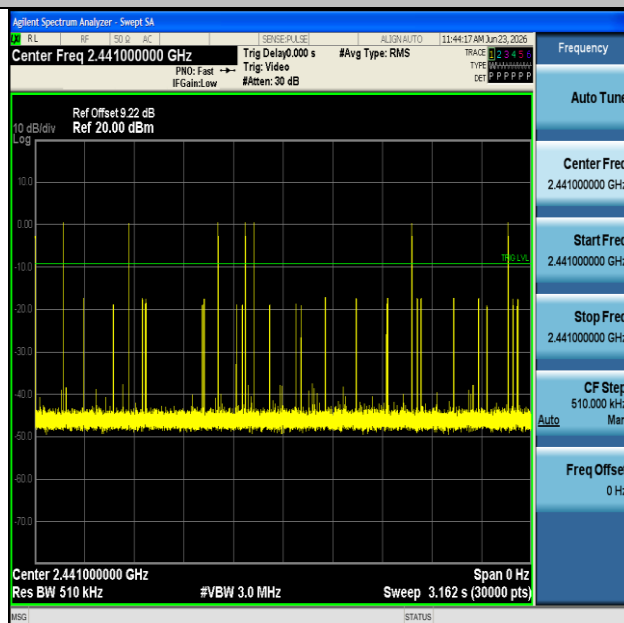


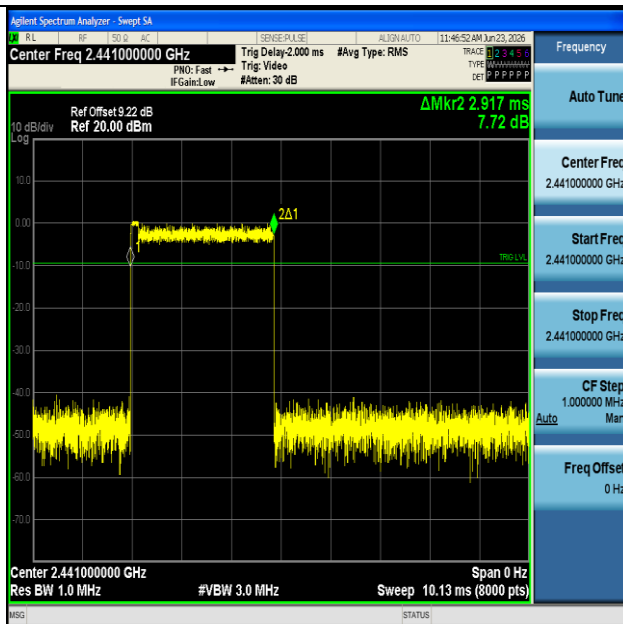
Test Graphs



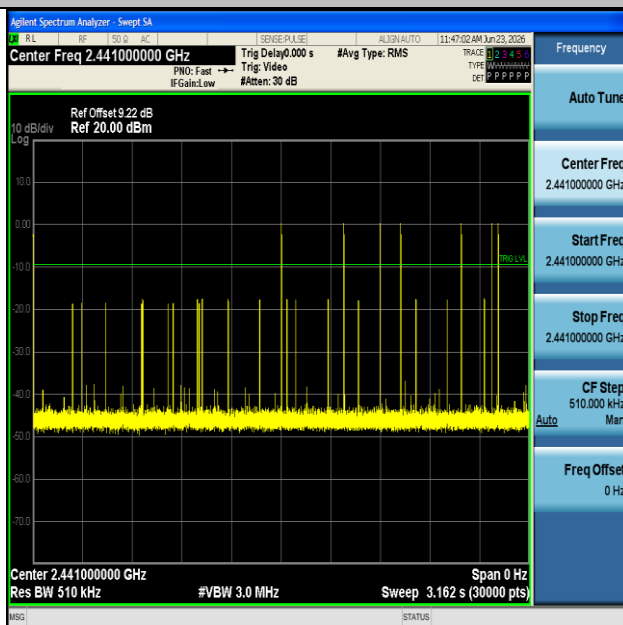


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS





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

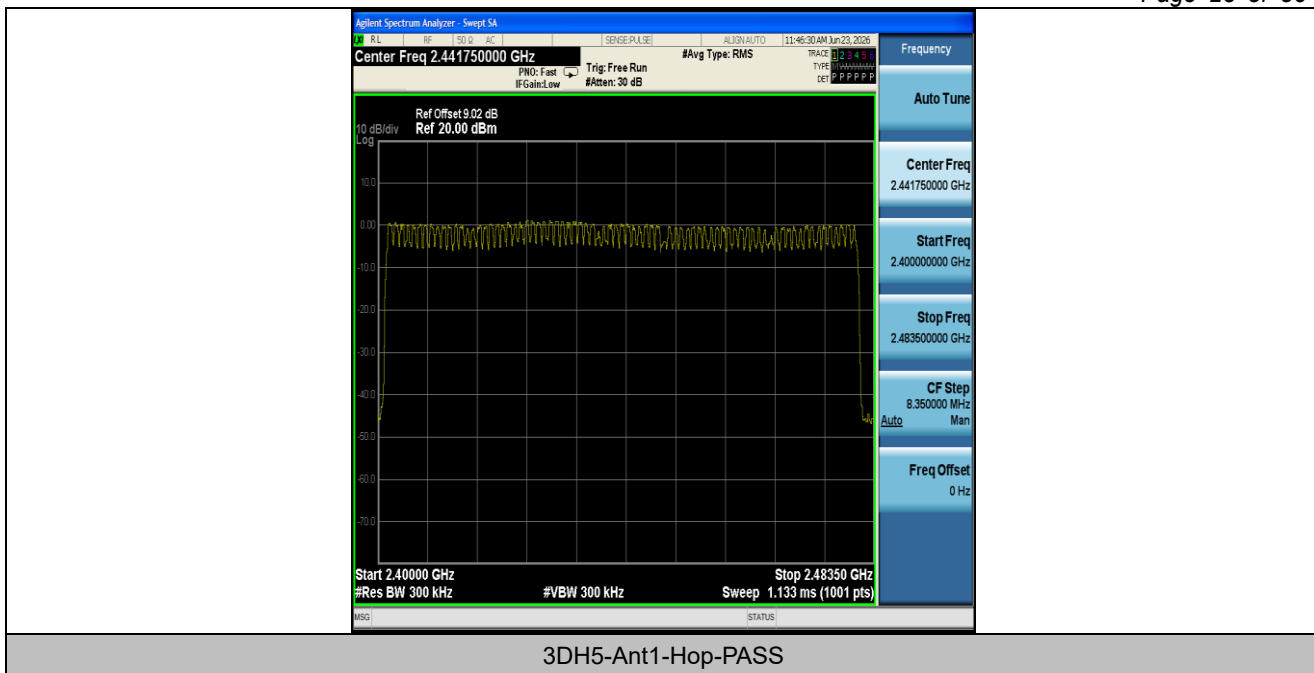
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix G: Band edge measurements

Test Result

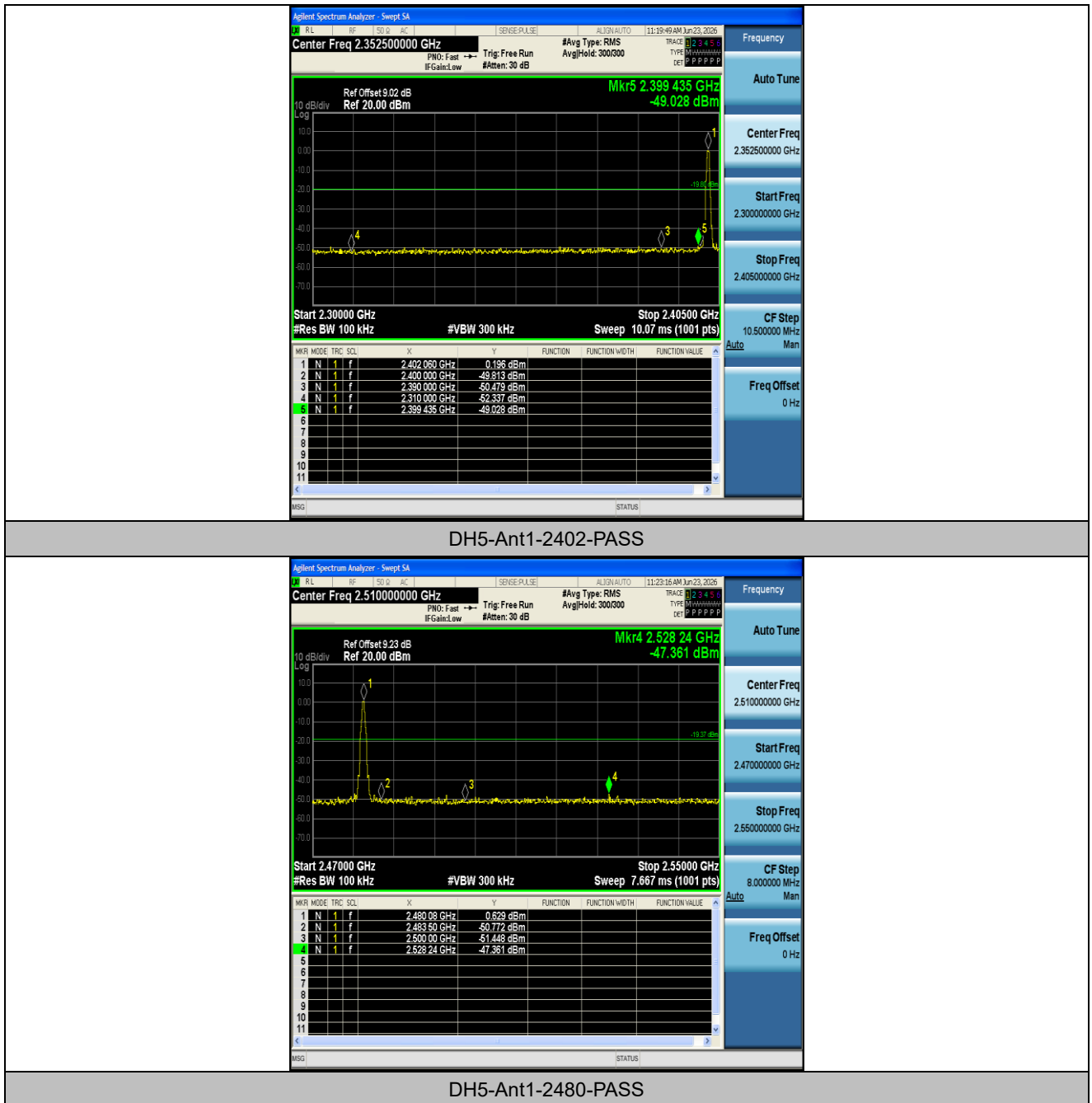
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.20	-49.03	≤-19.8	PASS
DH5	Ant1	High	2480	0.63	-47.36	≤-19.37	PASS
DH5	Ant1	Low	Hop_2402	-0.57	-49.39	≤-20.57	PASS
DH5	Ant1	High	Hop_2480	0.43	-48.4	≤-19.57	PASS
2DH5	Ant1	Low	2402	-0.38	-48.89	≤-20.38	PASS
2DH5	Ant1	High	2480	-0.20	-46.75	≤-20.2	PASS
2DH5	Ant1	Low	Hop_2402	-5.43	-48.98	≤-25.43	PASS
2DH5	Ant1	High	Hop_2480	-1.48	-48.55	≤-21.48	PASS
3DH5	Ant1	Low	2402	-0.16	-48.18	≤-20.16	PASS
3DH5	Ant1	High	2480	0.61	-45.18	≤-19.39	PASS
3DH5	Ant1	Low	Hop_2402	-6.81	-49.34	≤-26.81	PASS
3DH5	Ant1	High	Hop_2480	-3.11	-47.32	≤-23.11	PASS

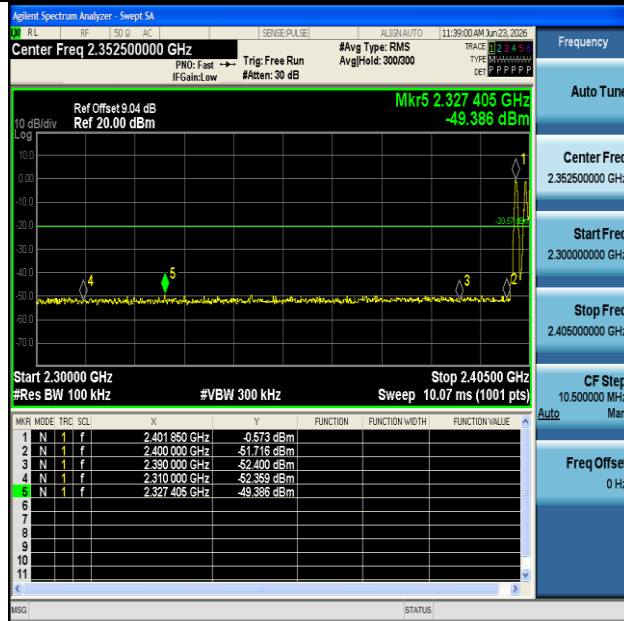
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



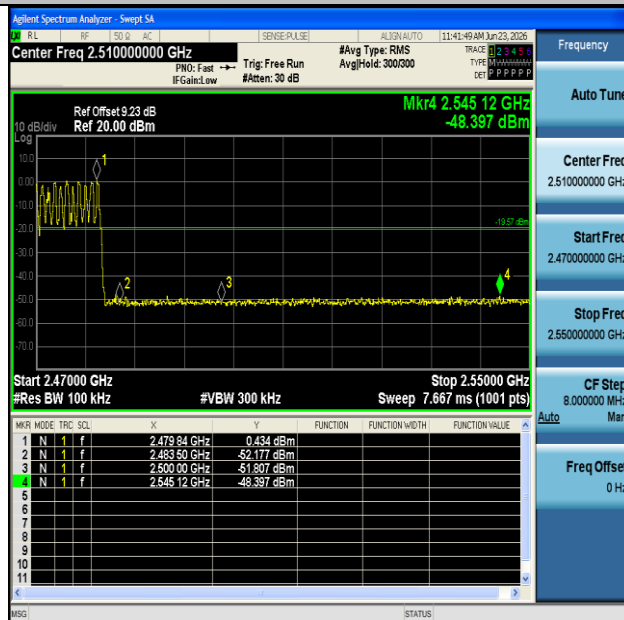


Test Graphs



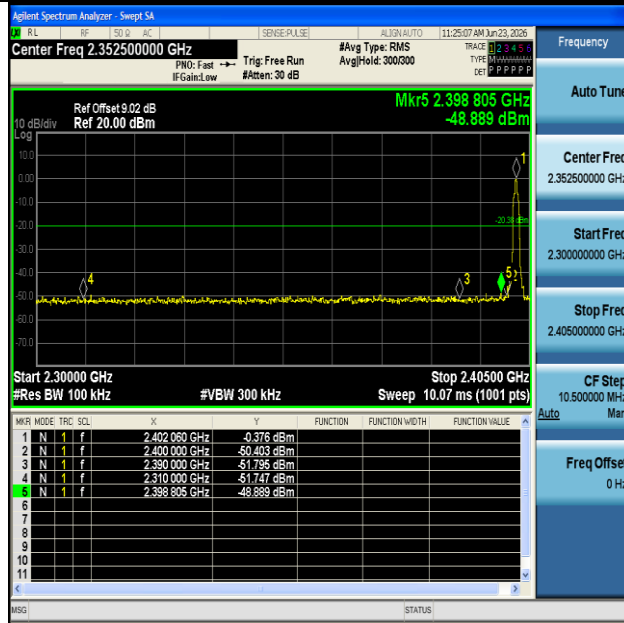


DH5-Ant1-Hop_2402-PASS

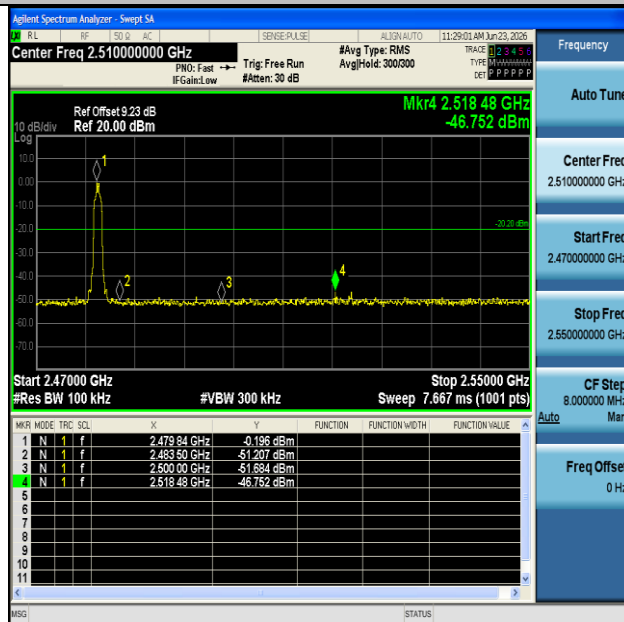


DH5-Ant1-Hop_2480-PASS



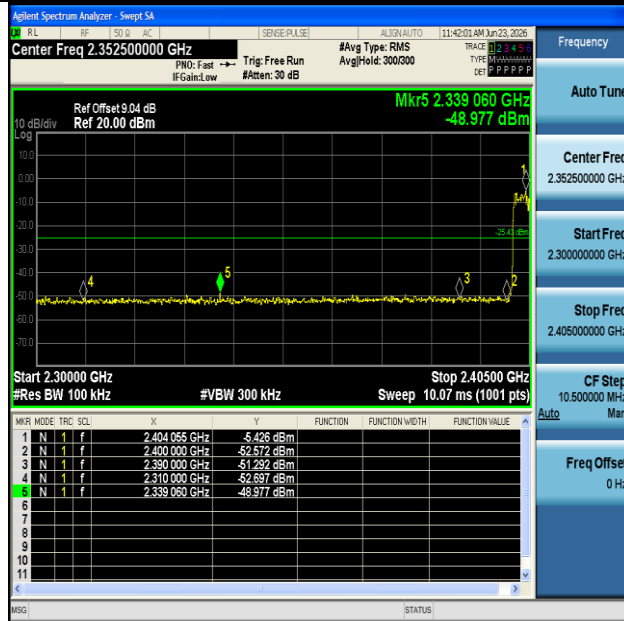


2DH5-Ant1-2402-PASS

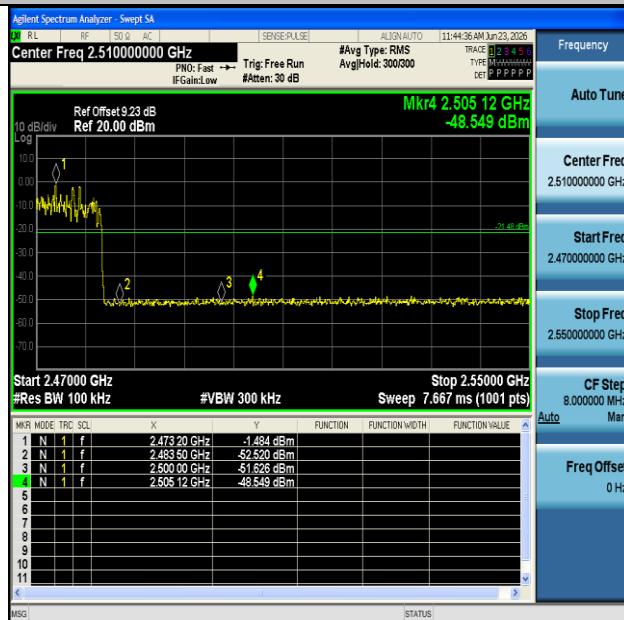


2DH5-Ant1-2480-PASS



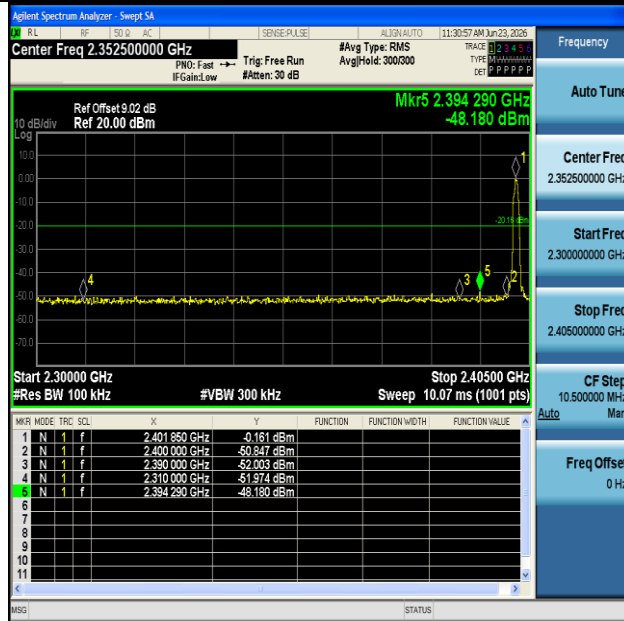


2DH5-Ant1-Hop_2402-PASS

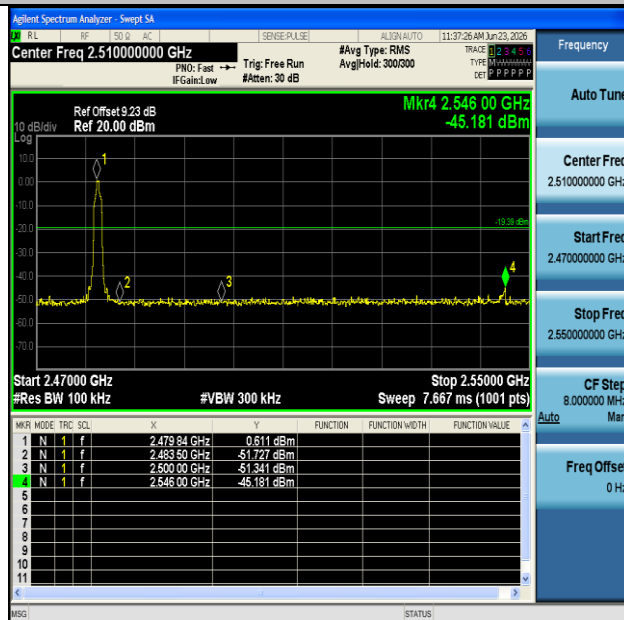


2DH5-Ant1-Hop_2480-PASS



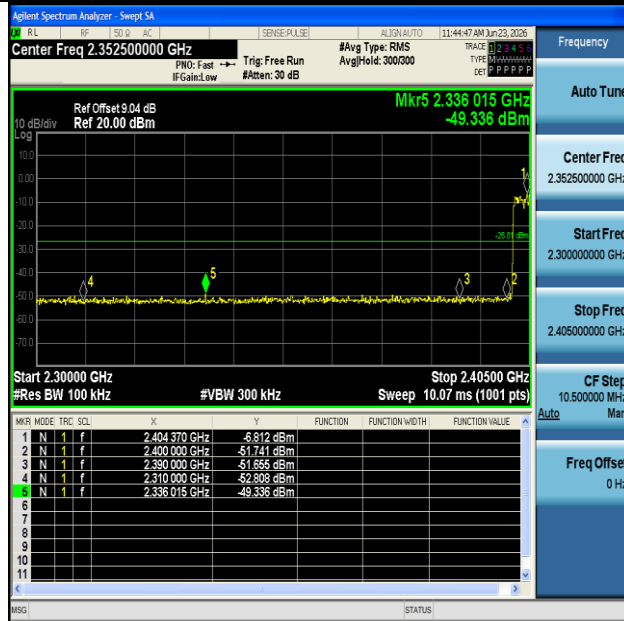


3DH5-Ant1-2402-PASS

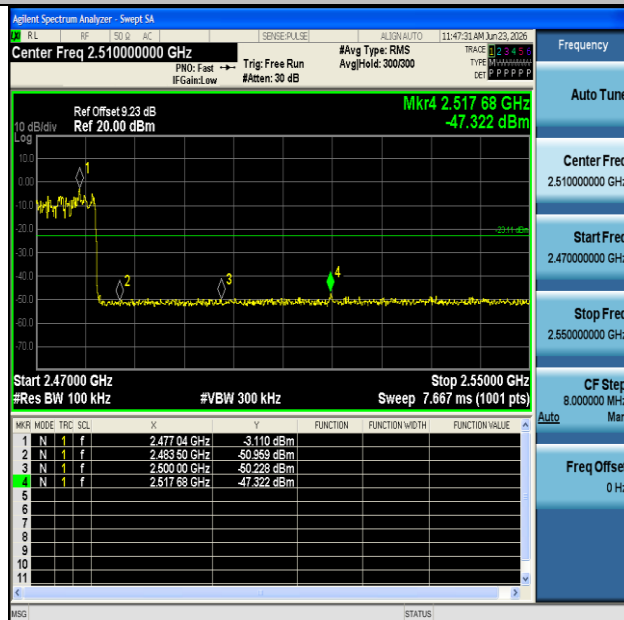


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

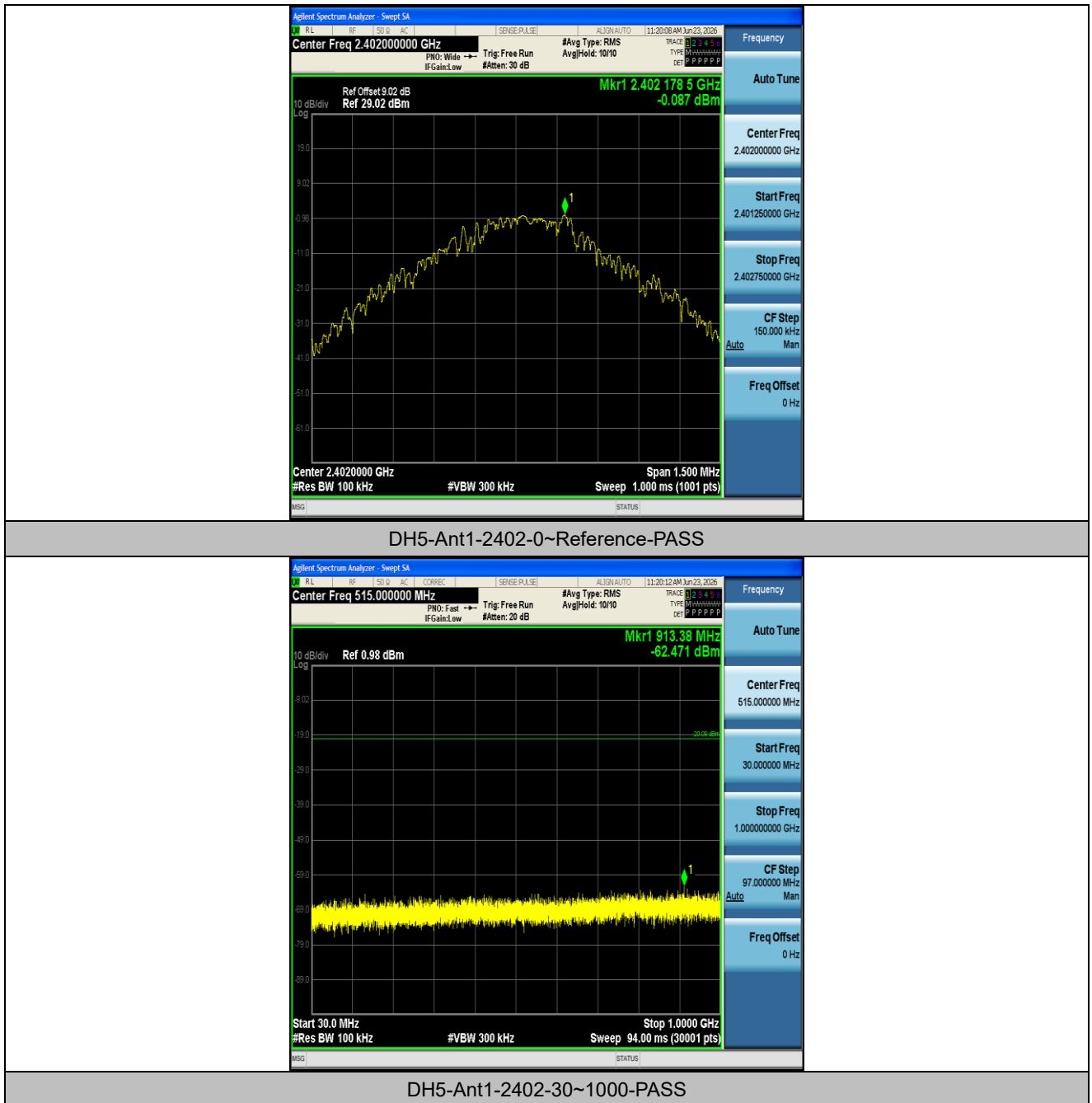
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.09	-0.09	---	PASS
DH5	Ant1	2402	30~1000	-0.09	-62.47	≤-20.09	PASS
DH5	Ant1	2402	1000~26500	-0.09	-37.64	≤-20.09	PASS
DH5	Ant1	2441	0~Reference	0.02	0.02	---	PASS
DH5	Ant1	2441	30~1000	0.02	-62.6	≤-19.98	PASS
DH5	Ant1	2441	1000~26500	0.02	-37.34	≤-19.98	PASS
DH5	Ant1	2480	0~Reference	0.00	0.00	---	PASS
DH5	Ant1	2480	30~1000	0.00	-62.52	≤-20	PASS
DH5	Ant1	2480	1000~26500	0.00	-37.42	≤-20	PASS
2DH5	Ant1	2402	0~Reference	-1.81	-1.81	---	PASS
2DH5	Ant1	2402	30~1000	-1.81	-62.73	≤-21.81	PASS
2DH5	Ant1	2402	1000~26500	-1.81	-37.6	≤-21.81	PASS
2DH5	Ant1	2441	0~Reference	-4.86	-4.86	---	PASS
2DH5	Ant1	2441	30~1000	-4.86	-62.83	≤-24.86	PASS
2DH5	Ant1	2441	1000~26500	-4.86	-37.42	≤-24.86	PASS
2DH5	Ant1	2480	0~Reference	-0.48	-0.48	---	PASS
2DH5	Ant1	2480	30~1000	-0.48	-62.66	≤-20.48	PASS
2DH5	Ant1	2480	1000~26500	-0.48	-37.55	≤-20.48	PASS
3DH5	Ant1	2402	0~Reference	-0.40	-0.40	---	PASS
3DH5	Ant1	2402	30~1000	-0.40	-63.23	≤-20.4	PASS
3DH5	Ant1	2402	1000~26500	-0.40	-36.3	≤-20.4	PASS
3DH5	Ant1	2441	0~Reference	-0.13	-0.13	---	PASS
3DH5	Ant1	2441	30~1000	-0.13	-62.61	≤-20.13	PASS
3DH5	Ant1	2441	1000~26500	-0.13	-37.39	≤-20.13	PASS
3DH5	Ant1	2480	0~Reference	-2.31	-2.31	---	PASS
3DH5	Ant1	2480	30~1000	-2.31	-62.4	≤-22.31	PASS
3DH5	Ant1	2480	1000~26500	-2.31	-37.22	≤-22.31	PASS

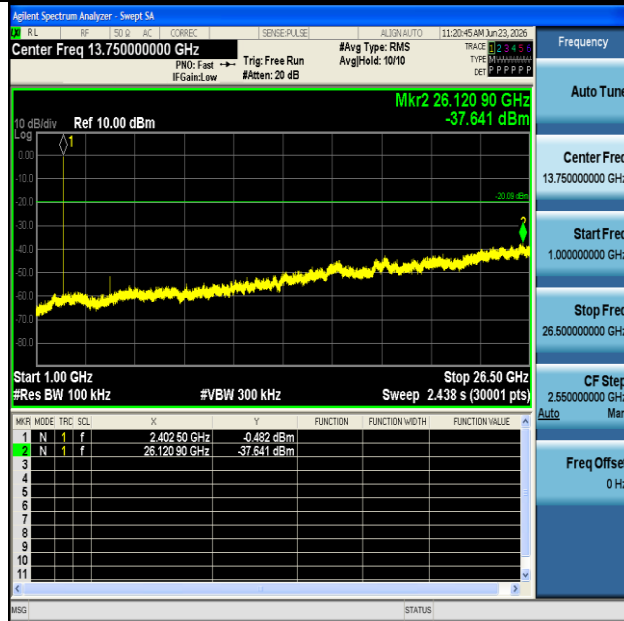
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



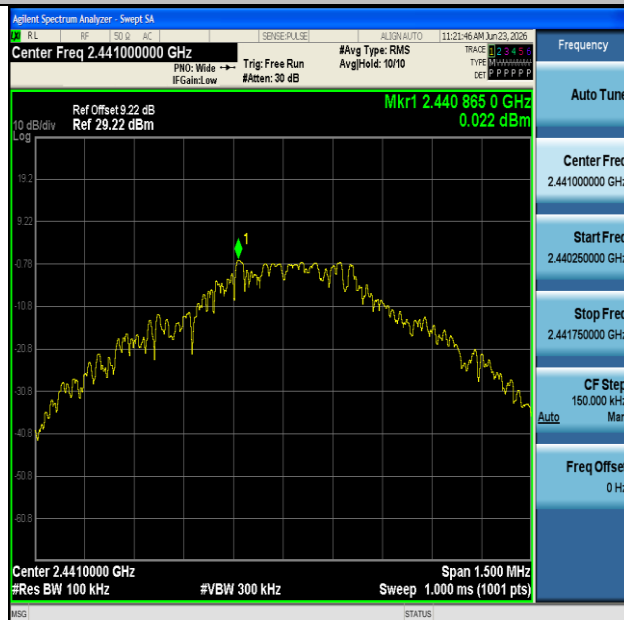


Test Graphs





DH5-Ant1-2402-1000~26500-PASS

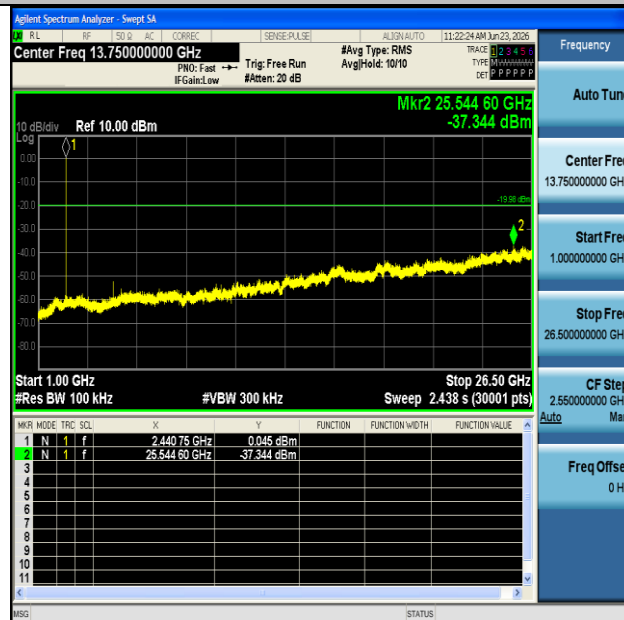


DH5-Ant1-2441-0~Reference-PASS





DH5-Ant1-2441-30~1000-PASS

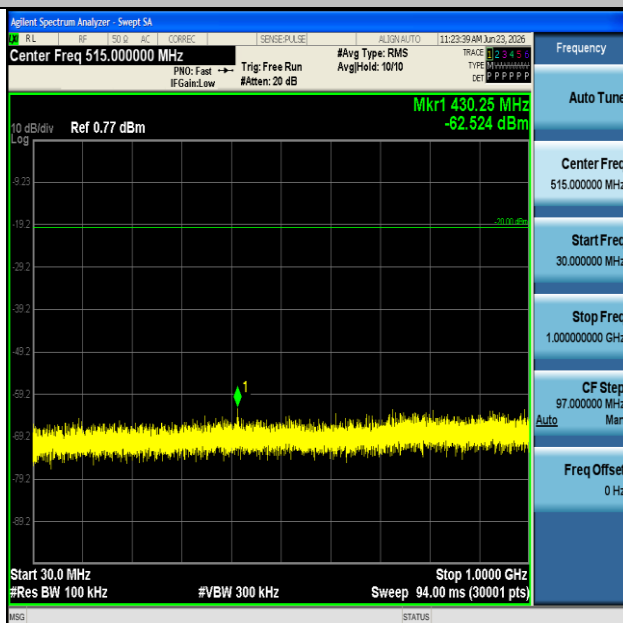


DH5-Ant1-2441-1000~26500-PASS



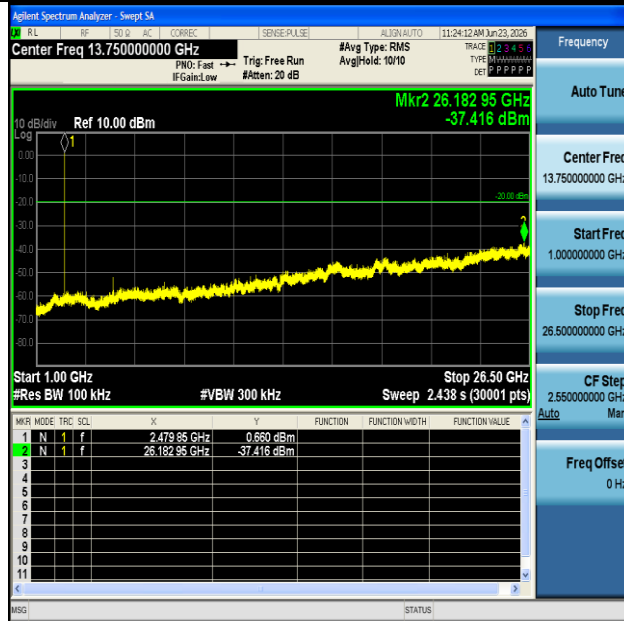


DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



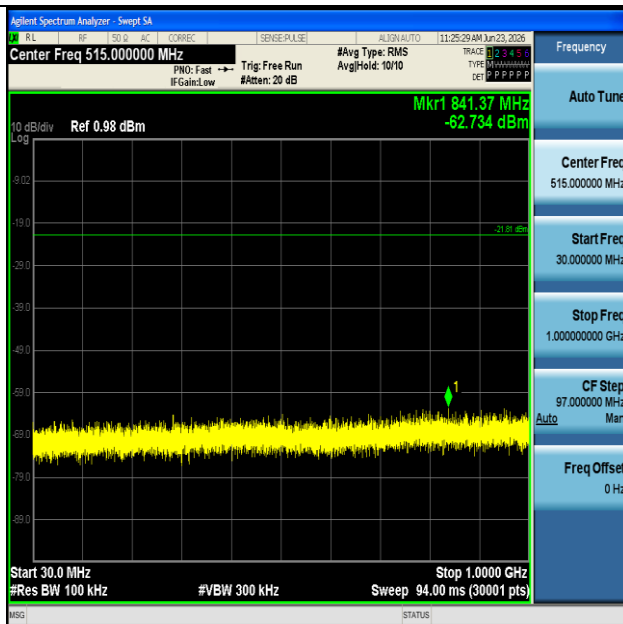


DH5-Ant1-2480-1000~26500-PASS

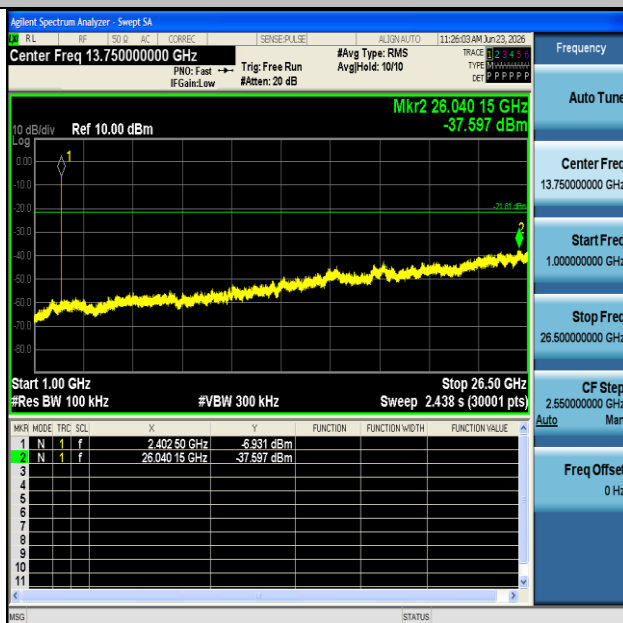


2DH5-Ant1-2402-0~Reference-PASS





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

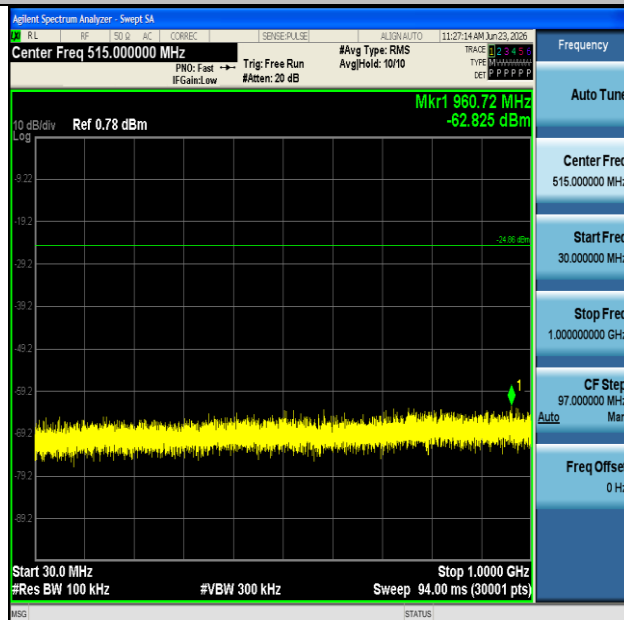


2DH5-Ant1-2402-1000~26500-PASS



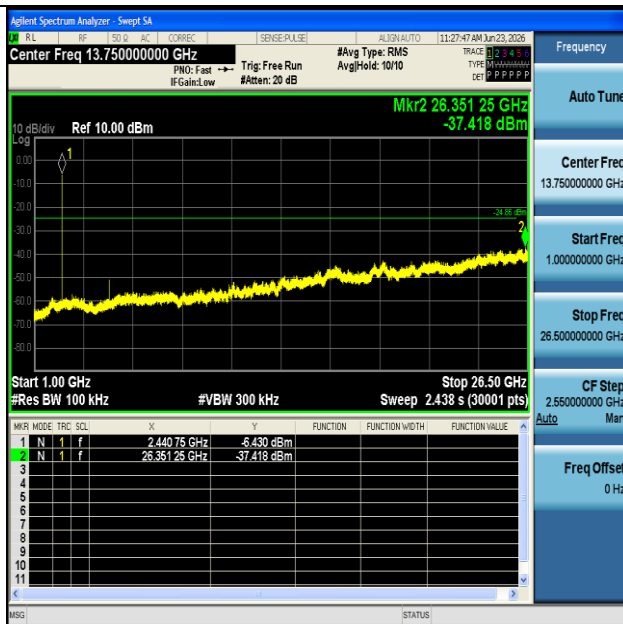


2DH5-Ant1-2441-0~Reference-PASS

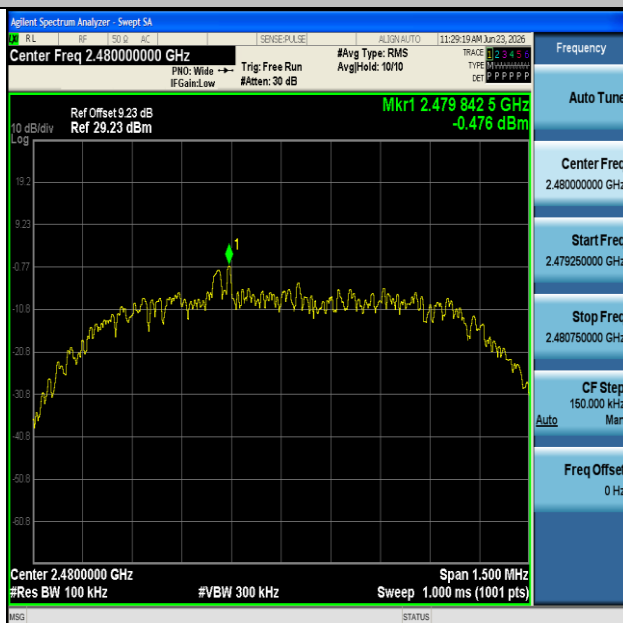


2DH5-Ant1-2441-30~1000-PASS



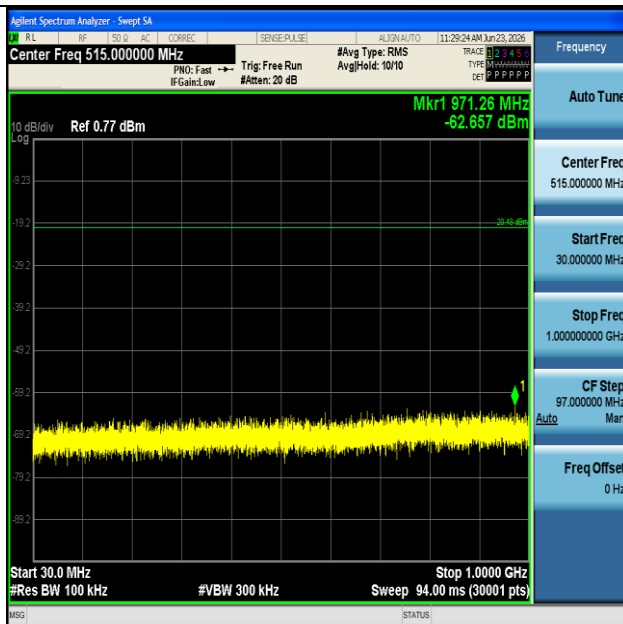


2DH5-Ant1-2441-1000~26500-PASS

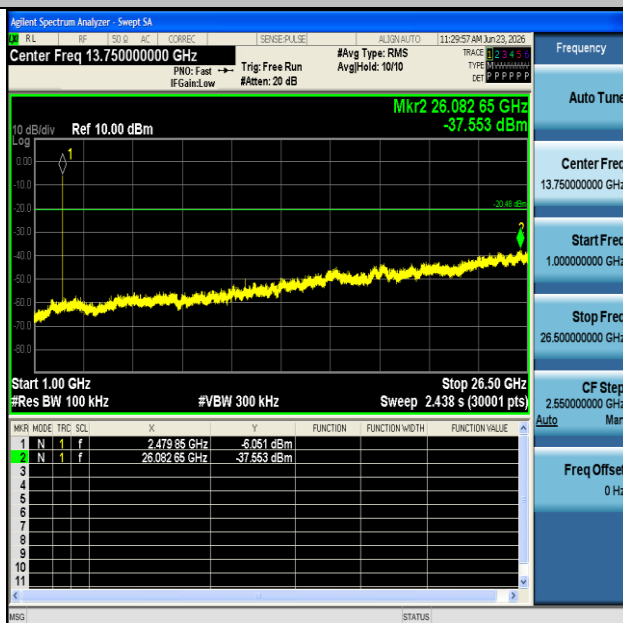


2DH5-Ant1-2480-0~Reference-PASS





2DH5-Ant1-2480-30~1000-PASS

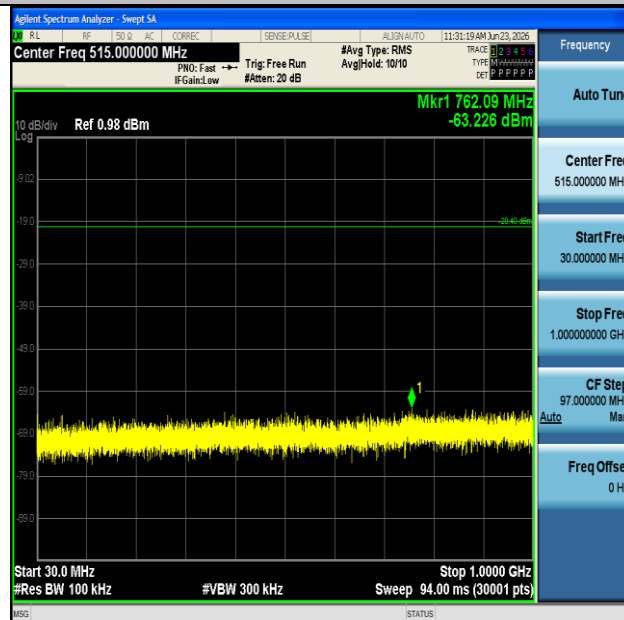


2DH5-Ant1-2480-1000~26500-PASS



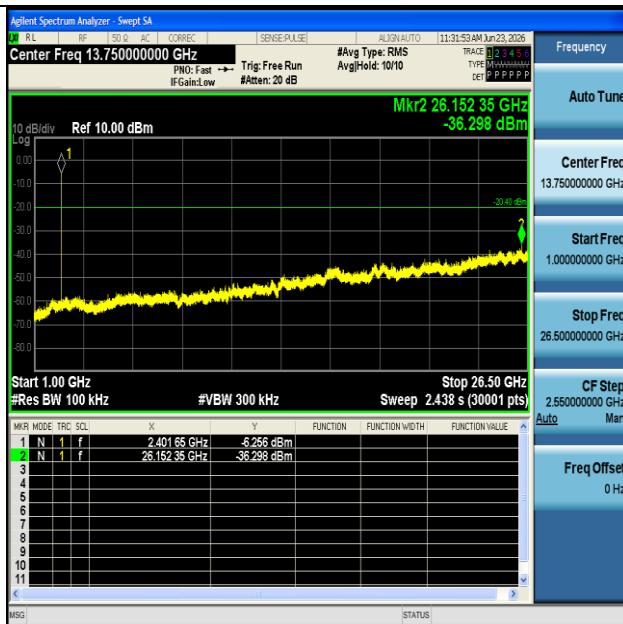


3DH5-Ant1-2402-0~Reference-PASS

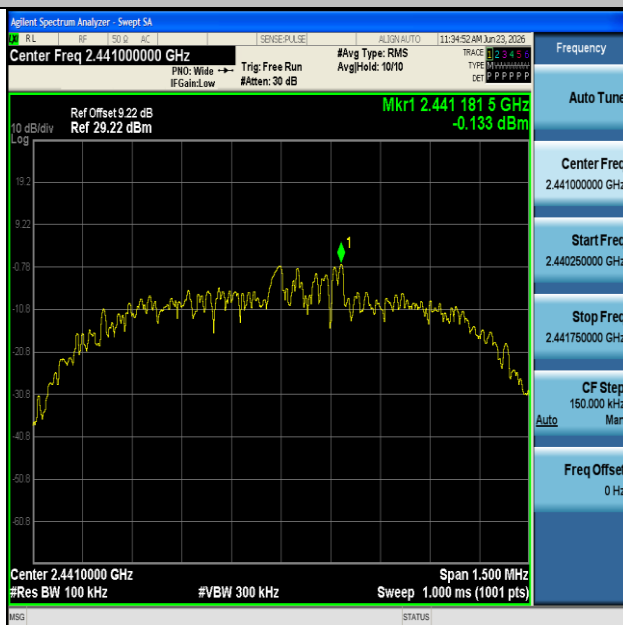


3DH5-Ant1-2402-30~1000-PASS



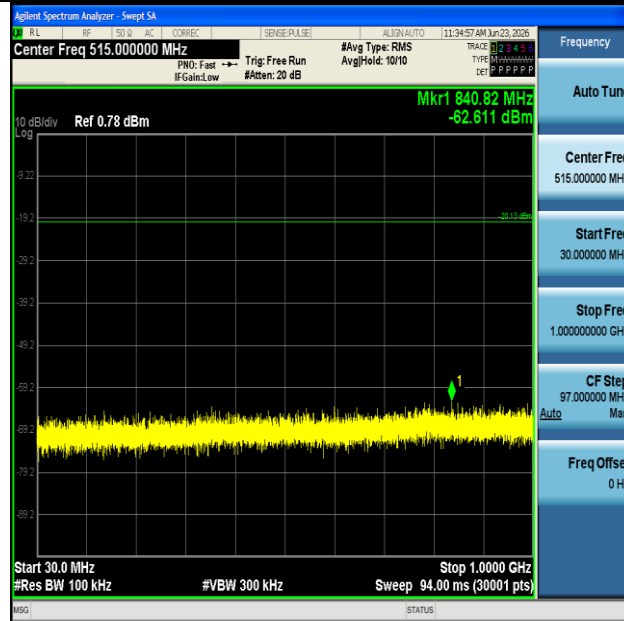


3DH5-Ant1-2402-1000~26500-PASS

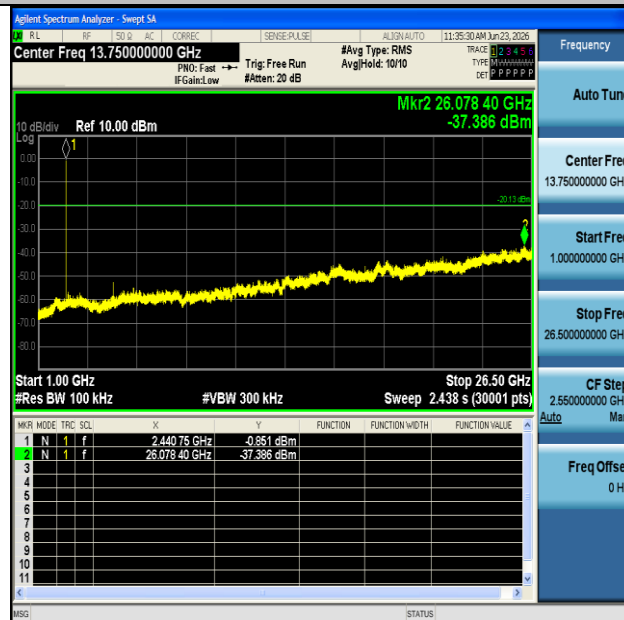


3DH5-Ant1-2441-0~Reference-PASS





3DH5-Ant1-2441-30~1000-PASS

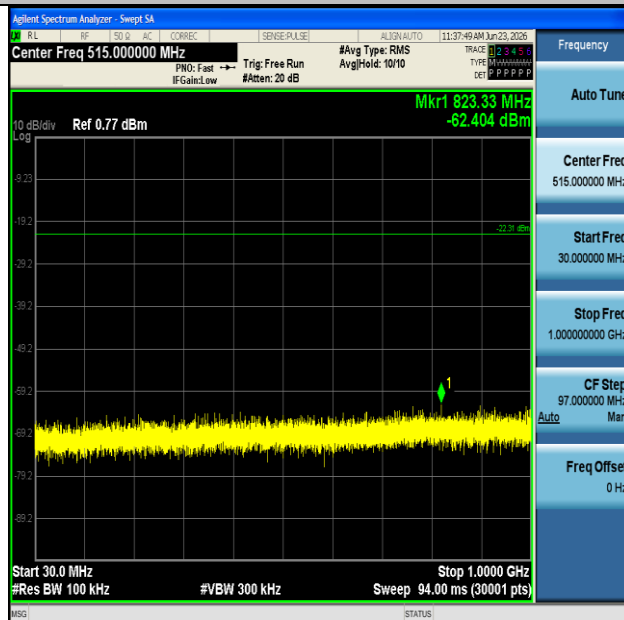


3DH5-Ant1-2441-1000~26500-PASS



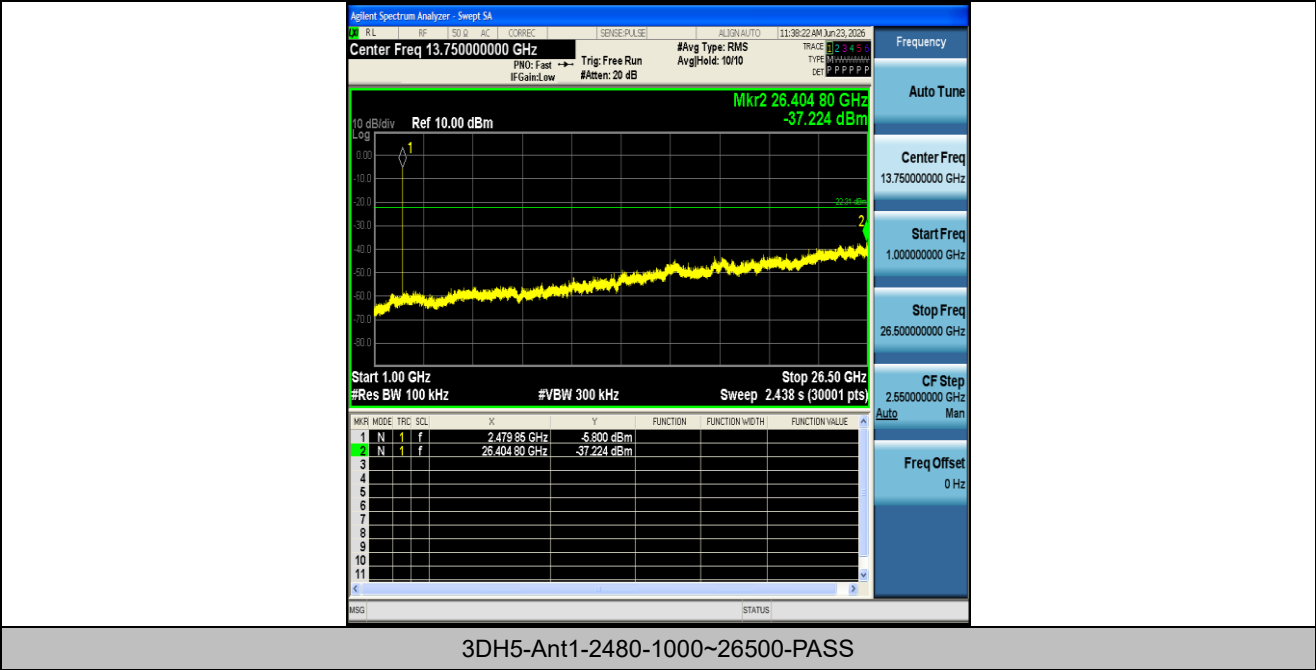


3DH5-Ant1-2480-0~Reference-PASS



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







Appendix I: Duty Cycle

Test Result

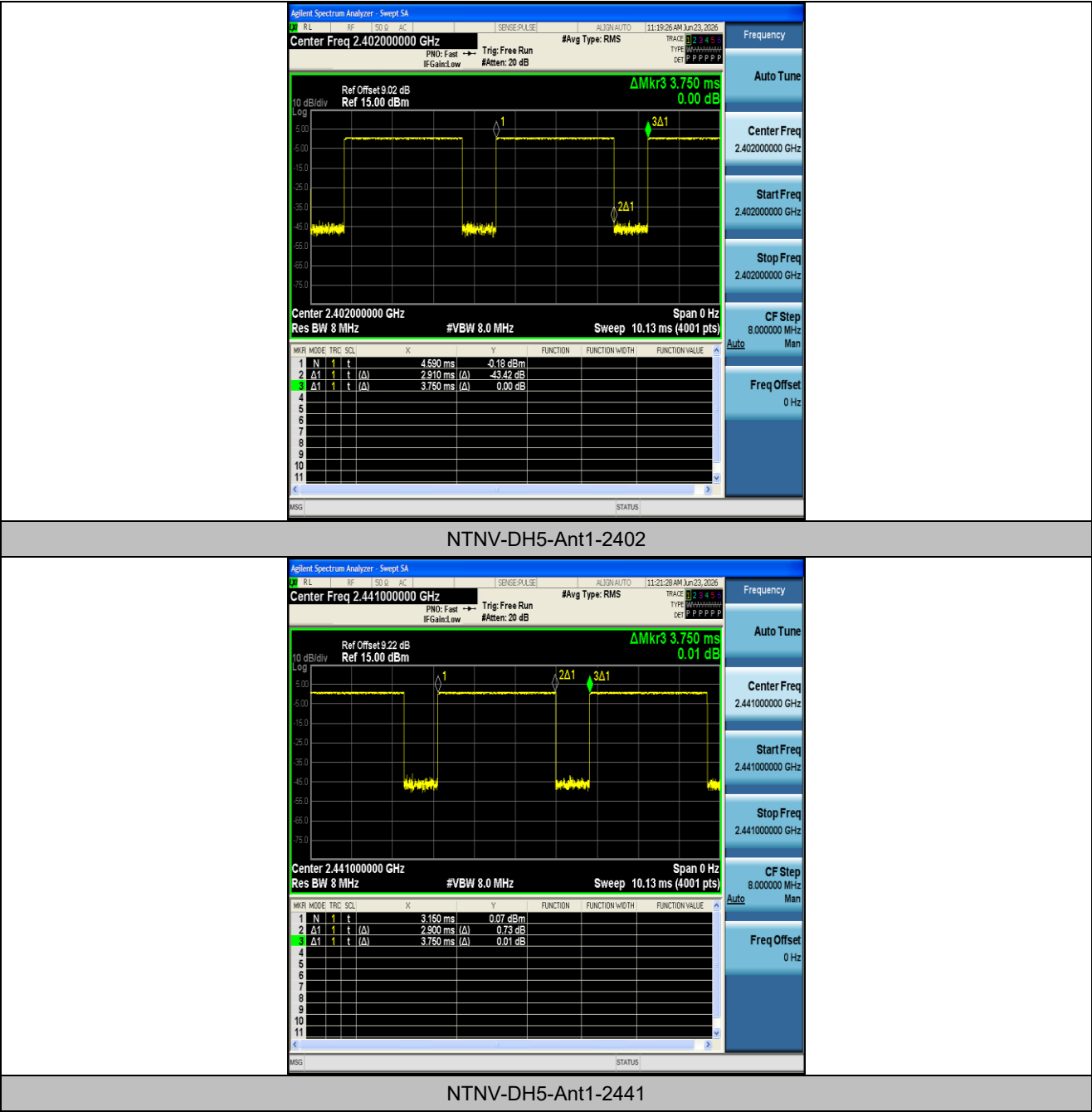
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.92	3.75	77.87	1.09
2DH5	Ant1	2441	2.92	3.75	77.87	1.09
2DH5	Ant1	2480	2.91	3.75	77.60	1.10
3DH5	Ant1	2402	2.92	3.76	77.66	1.10
3DH5	Ant1	2441	2.91	3.75	77.60	1.10
3DH5	Ant1	2480	2.91	3.75	77.60	1.10

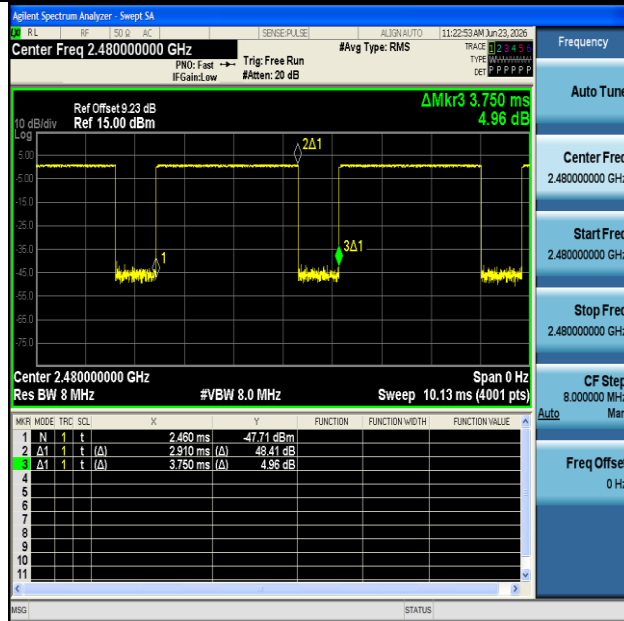
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



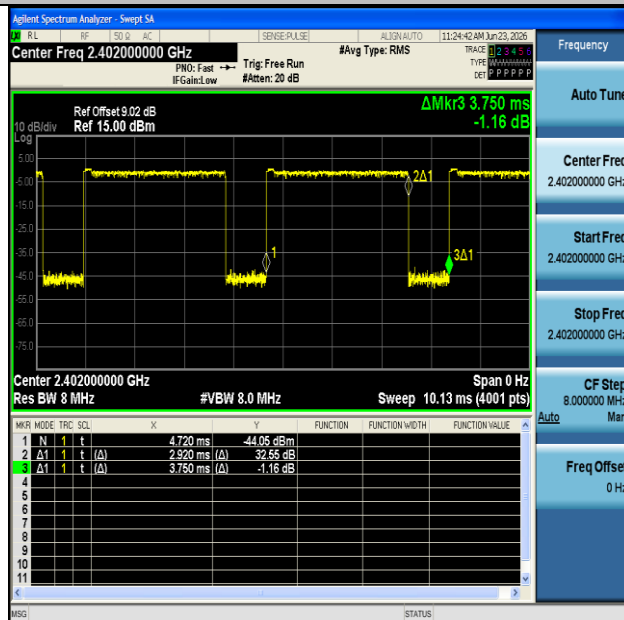


Test Graphs



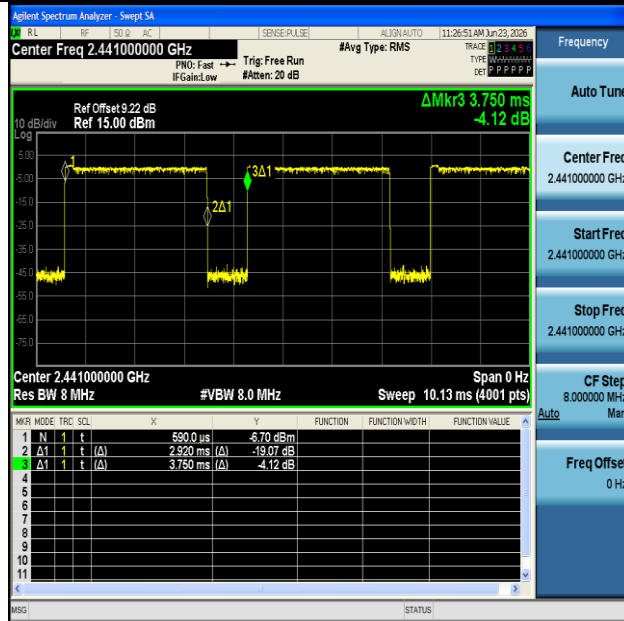


NTNV-DH5-Ant1-2480

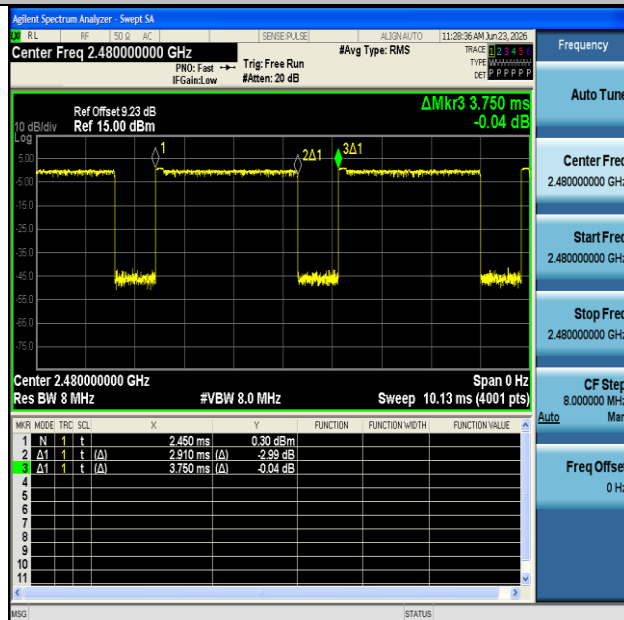


NTNV-2DH5-Ant1-2402



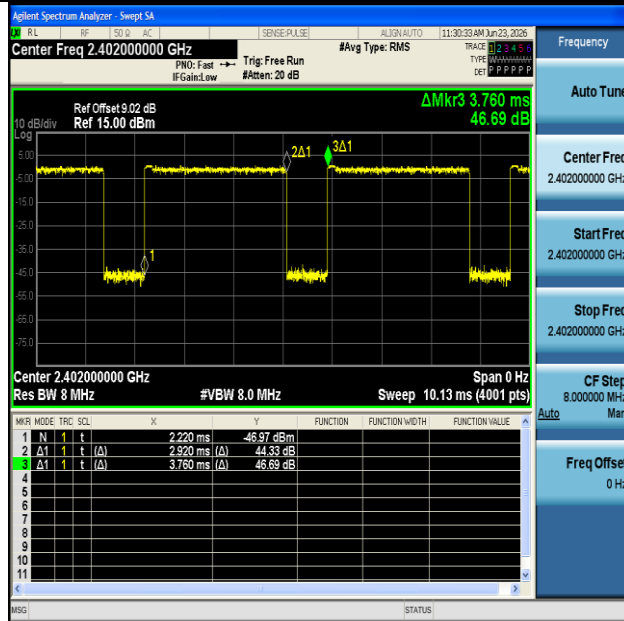


NTNV-2DH5-Ant1-2441

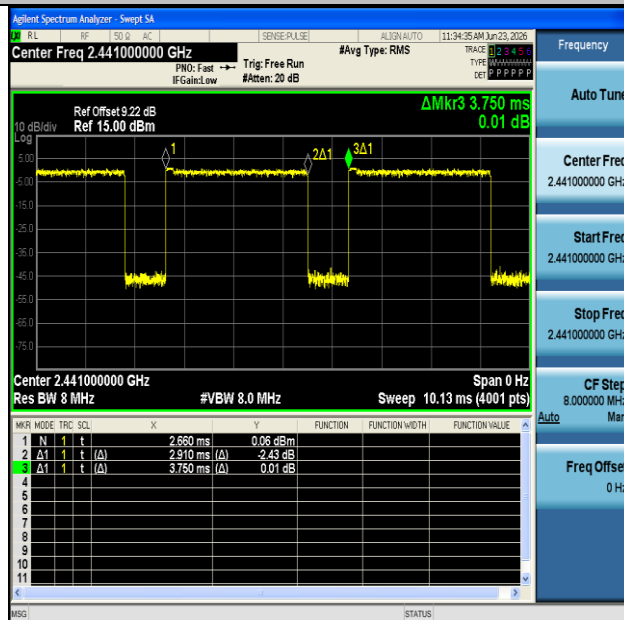


NTNV-2DH5-Ant1-2480



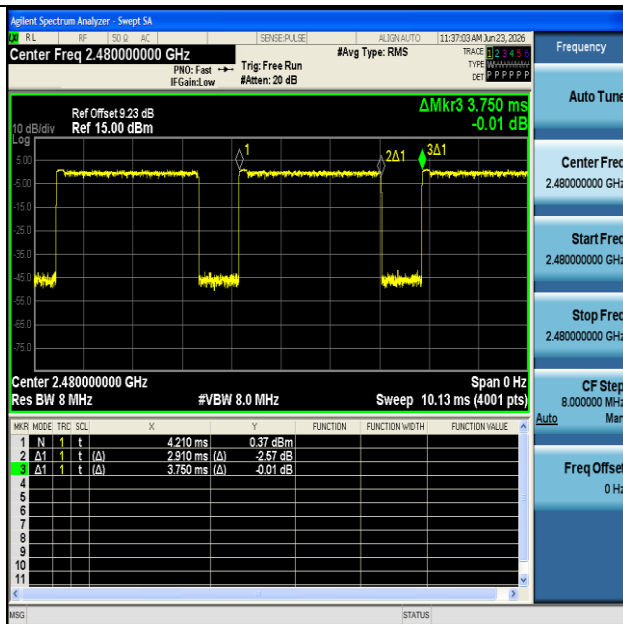


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

