



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

Product Name: Sound bar

Trade Mark: SineAudio Saiyin RIOWOIS Anpharala WebsLand, Kerglory

Test Model: DS6442G2 Pro

FCC ID: 2AP93-DS6X2

Environmental Conditions

Temperature:	JH23.5°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	0.984	2401.487	2402.471	---	---
DH5	Ant1	2441	1.005	2440.454	2441.459	---	---
DH5	Ant1	2480	0.939	2479.499	2480.438	---	---
2DH5	Ant1	2402	1.314	2401.313	2402.627	---	---
2DH5	Ant1	2441	1.308	2440.319	2441.627	---	---
2DH5	Ant1	2480	1.299	2479.316	2480.615	---	---
3DH5	Ant1	2402	1.293	2401.313	2402.606	---	---
3DH5	Ant1	2441	1.284	2440.328	2441.612	---	---
3DH5	Ant1	2480	1.263	2479.331	2480.594	---	---

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	0.87842	2401.5359	2402.4143	---	---
DH5	Ant1	2441	0.86611	2440.5291	2441.3952	---	---
DH5	Ant1	2480	0.87805	2479.5195	2480.3975	---	---
2DH5	Ant1	2402	1.1906	2401.3738	2402.5644	---	---
2DH5	Ant1	2441	1.2014	2440.3656	2441.5670	---	---
2DH5	Ant1	2480	1.1940	2479.3580	2480.5520	---	---
3DH5	Ant1	2402	1.2073	2401.3715	2402.5788	---	---
3DH5	Ant1	2441	1.1982	2440.3680	2441.5662	---	---
3DH5	Ant1	2480	1.1905	2479.3597	2480.5502	---	---

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





Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402





2DH5-Ant1-2441

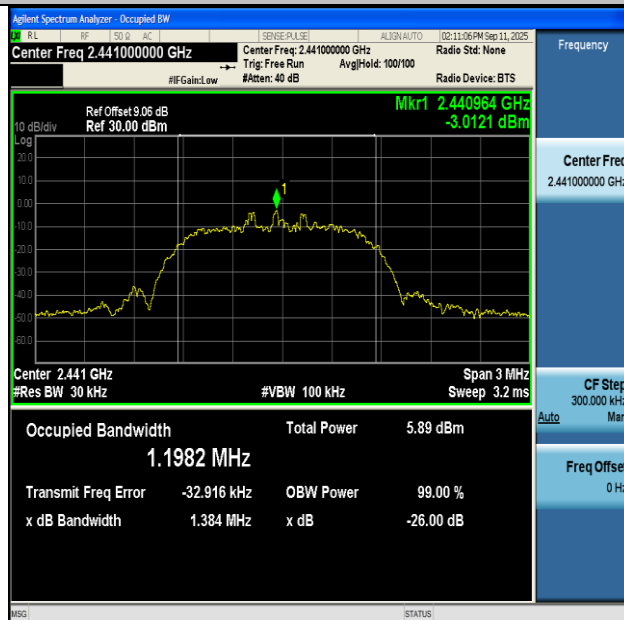


2DH5-Ant1-2480



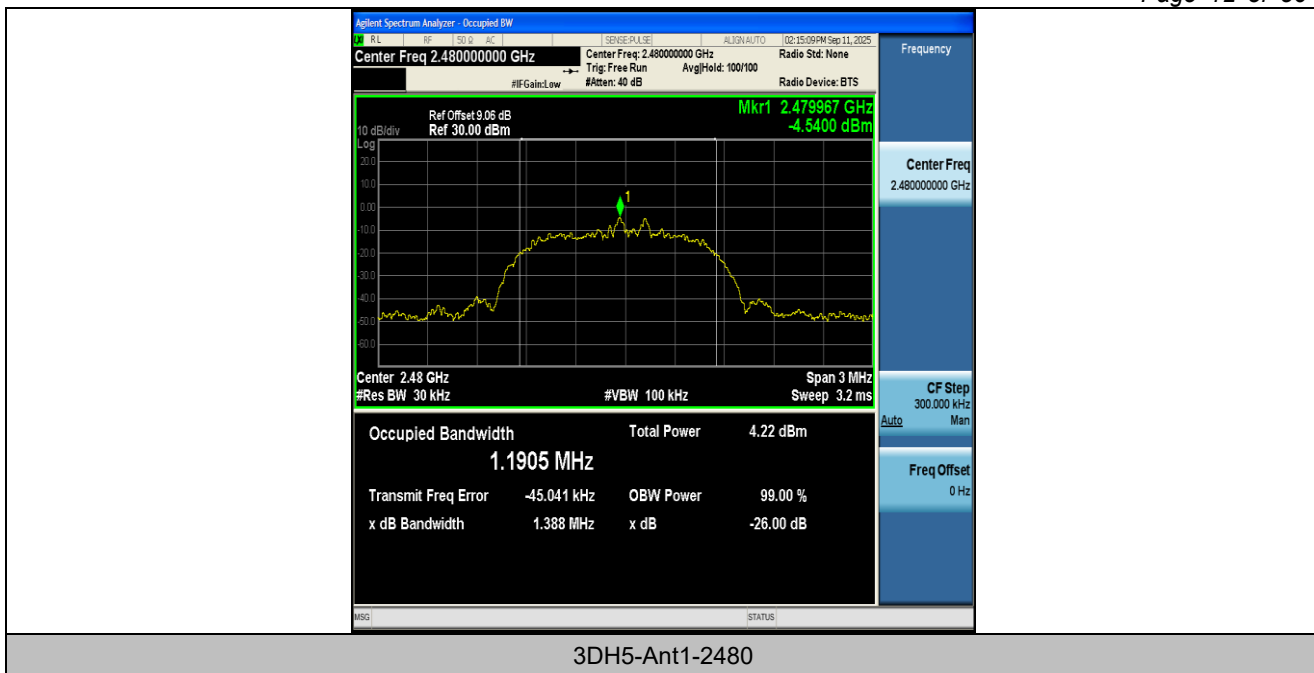


3DH5-Ant1-2402



3DH5-Ant1-2441







Appendix C: Maximum peak conducted output power

Test Result

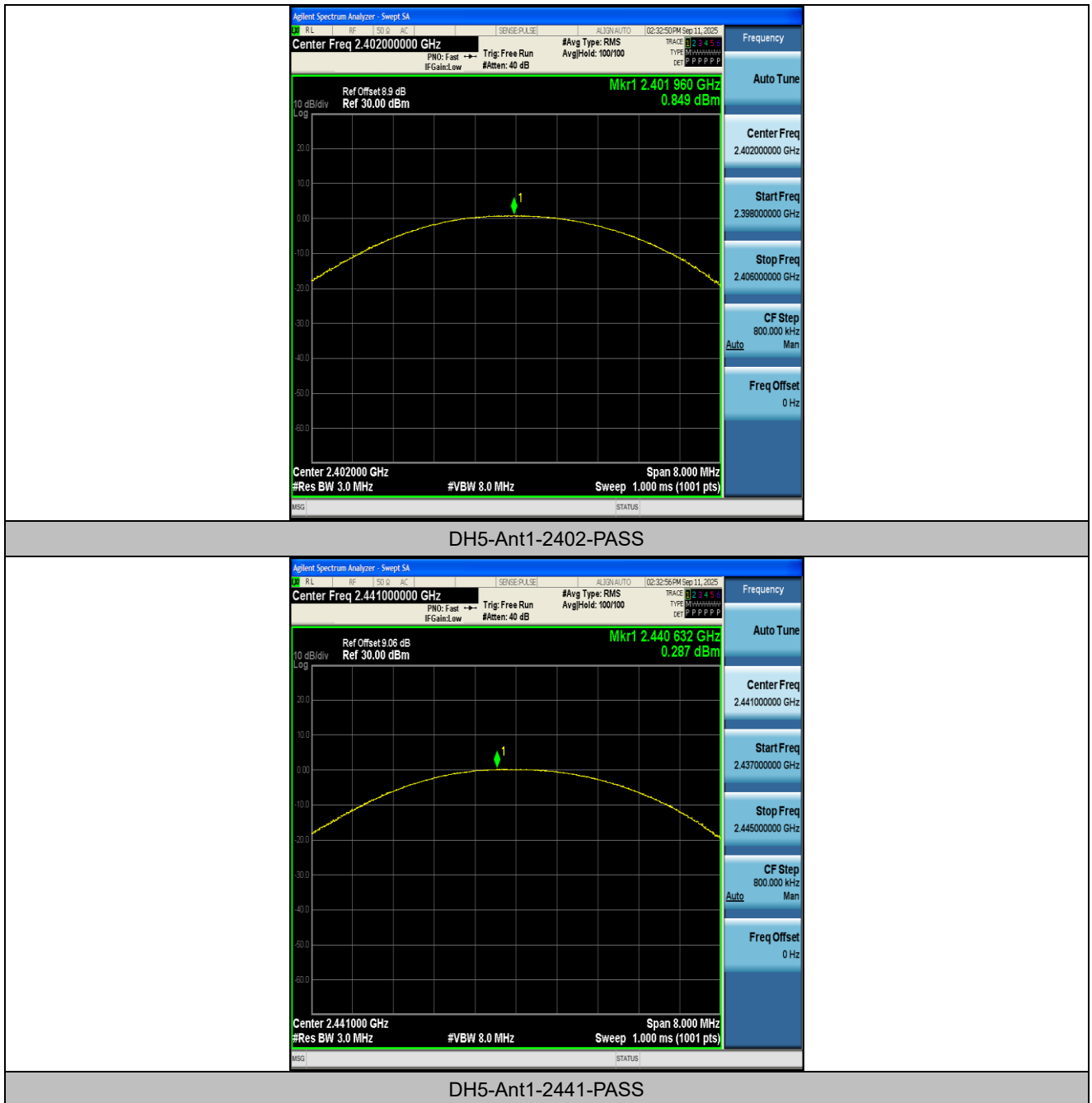
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.85	≤20.97	PASS
DH5	Ant1	2441	0.29	≤20.97	PASS
DH5	Ant1	2480	-1.48	≤20.97	PASS
2DH5	Ant1	2402	0.72	≤20.97	PASS
2DH5	Ant1	2441	0.19	≤20.97	PASS
2DH5	Ant1	2480	-1.61	≤20.97	PASS
3DH5	Ant1	2402	0.86	≤20.97	PASS
3DH5	Ant1	2441	0.45	≤20.97	PASS
3DH5	Ant1	2480	-1.53	≤20.97	PASS

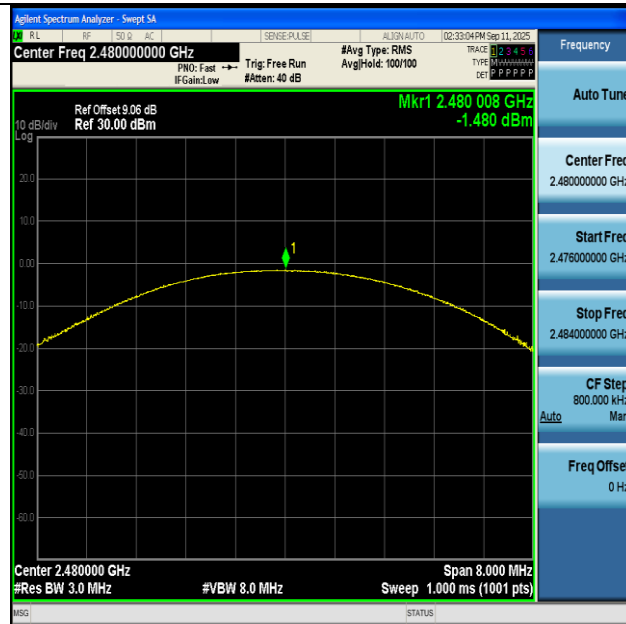
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



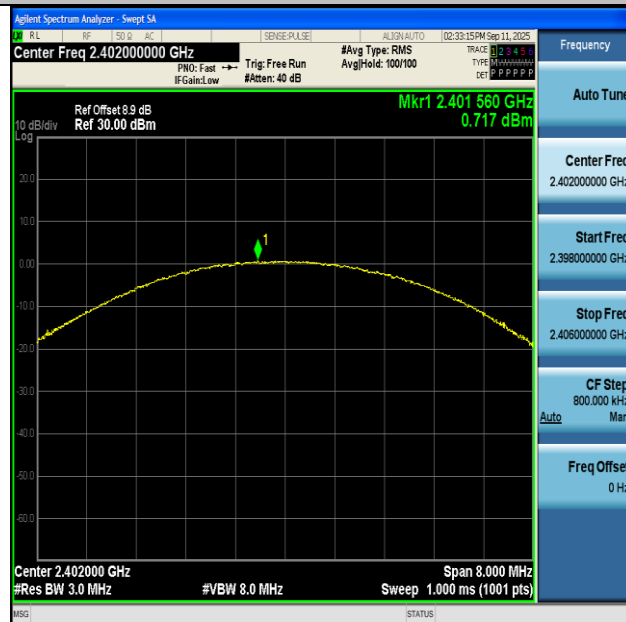


Test Graphs



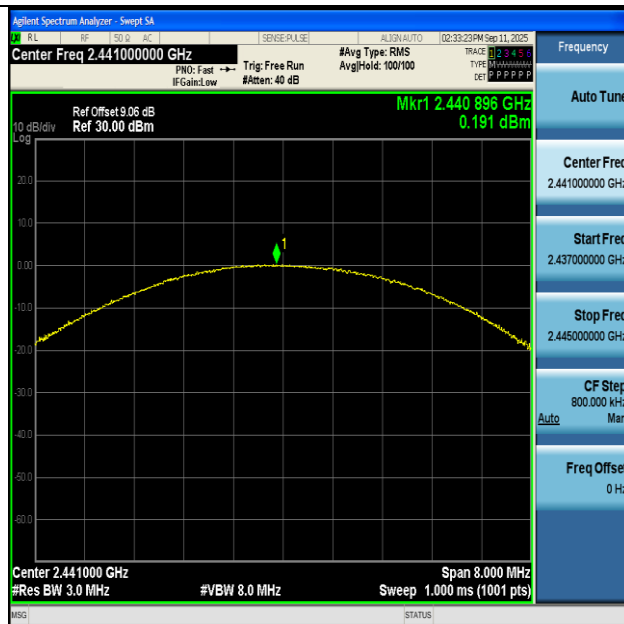


DH5-Ant1-2480-PASS

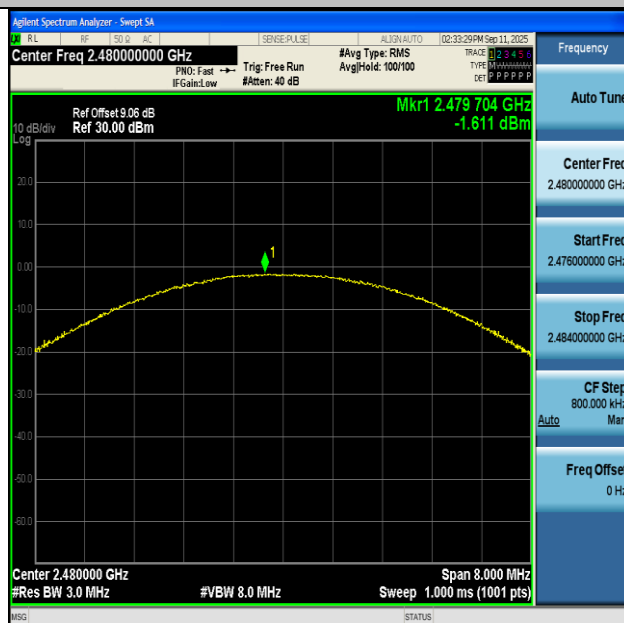


2DH5-Ant1-2402-PASS



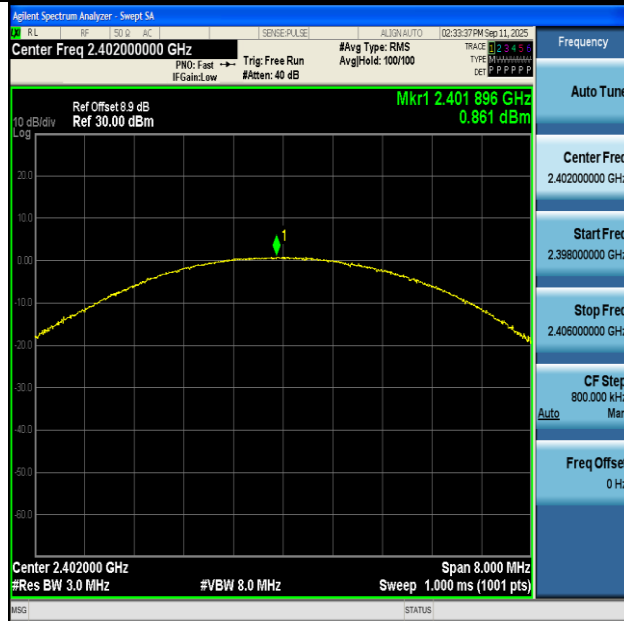


2DH5-Ant1-2441-PASS

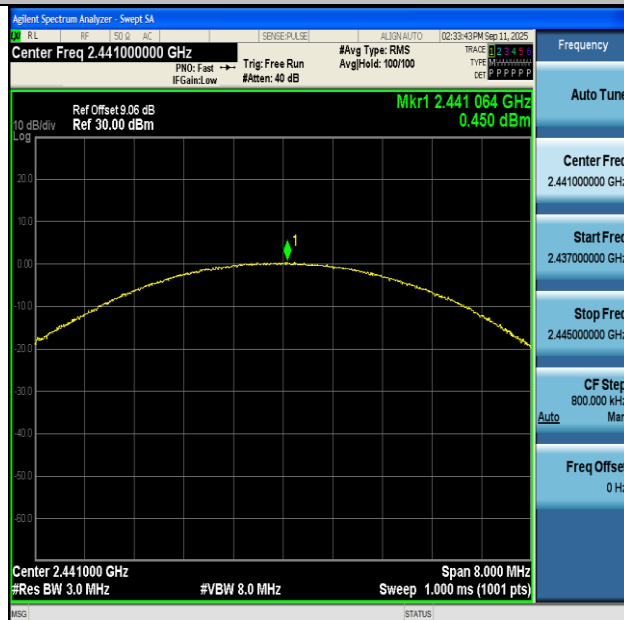


2DH5-Ant1-2480-PASS



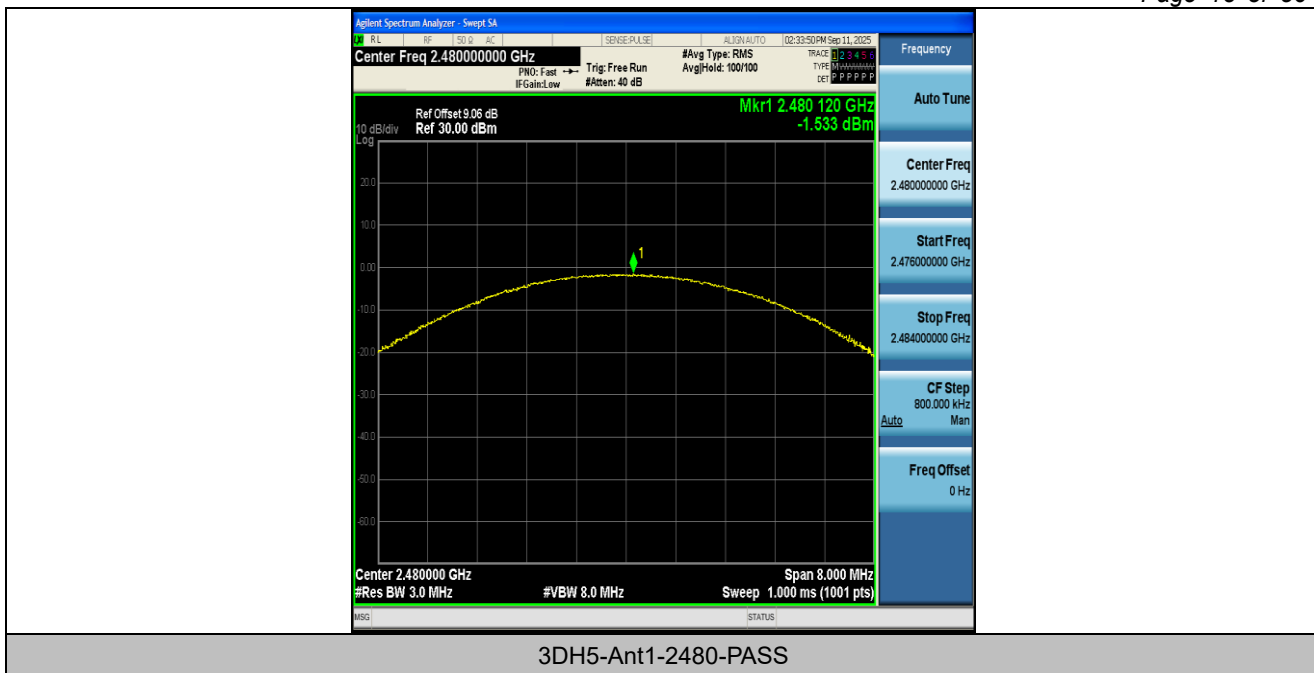


3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS







Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.670	PASS
2DH5	Ant1	Hop	1.01	≥ 0.876	PASS
3DH5	Ant1	Hop	0.978	≥ 0.862	PASS

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





Test Graphs







Appendix E: Time of occupancy

Test Result

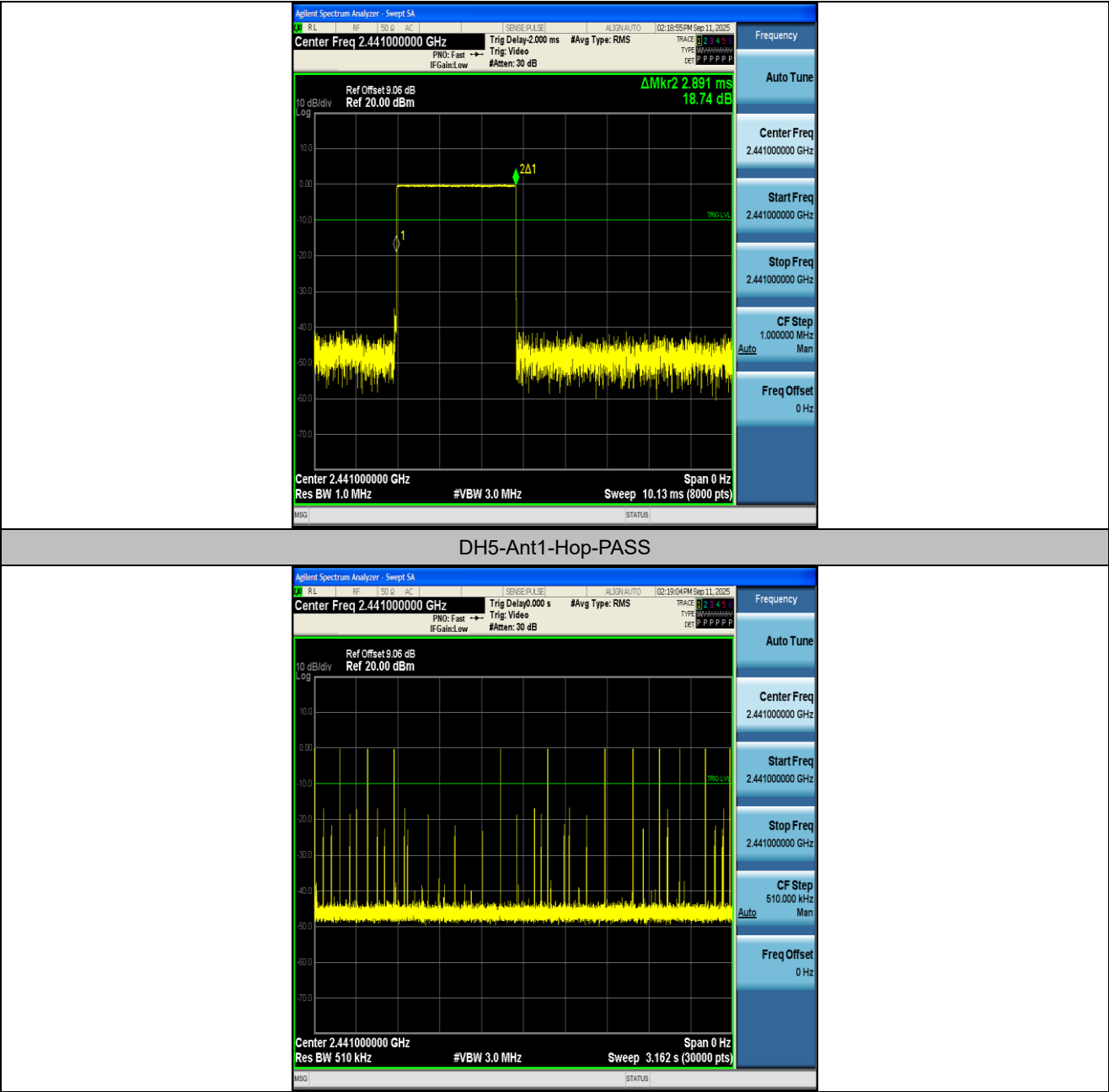
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.891	120	0.347	≤0.4	PASS
2DH5	Ant1	Hop	2.885	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.887	120	0.346	≤0.4	PASS

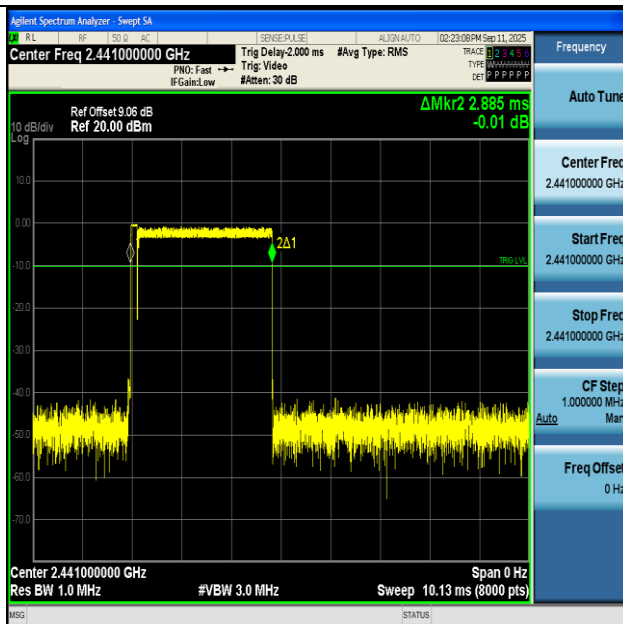
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



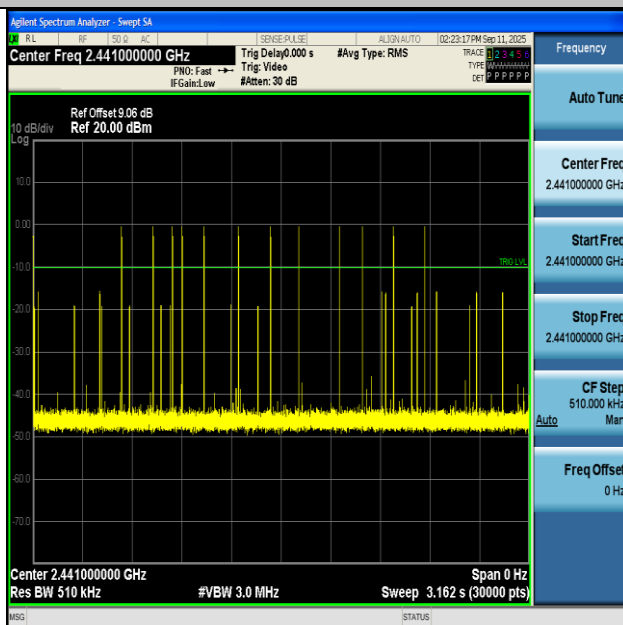


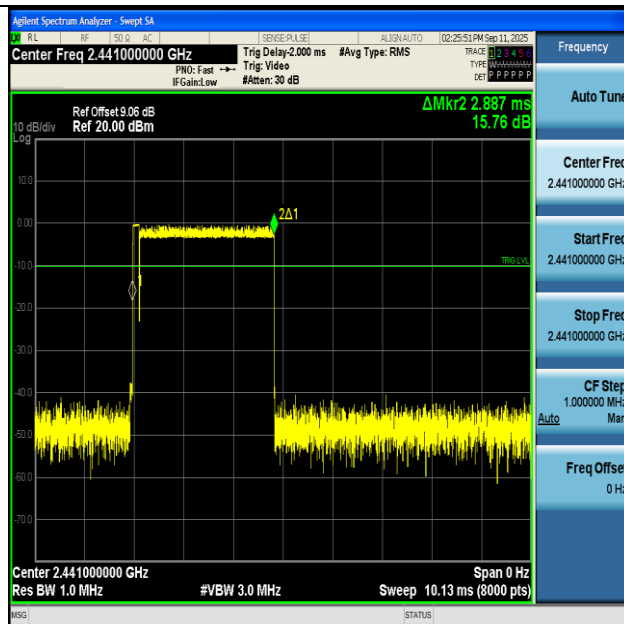
Test Graphs



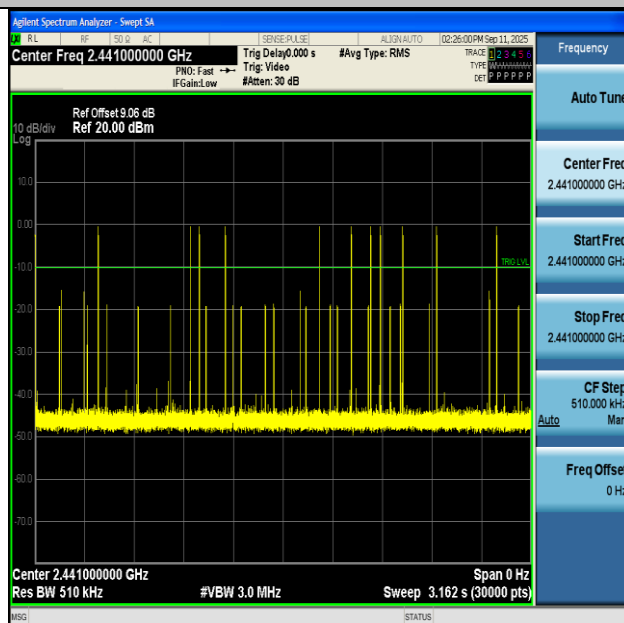


2DH5-Ant1-Hop-PASS





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

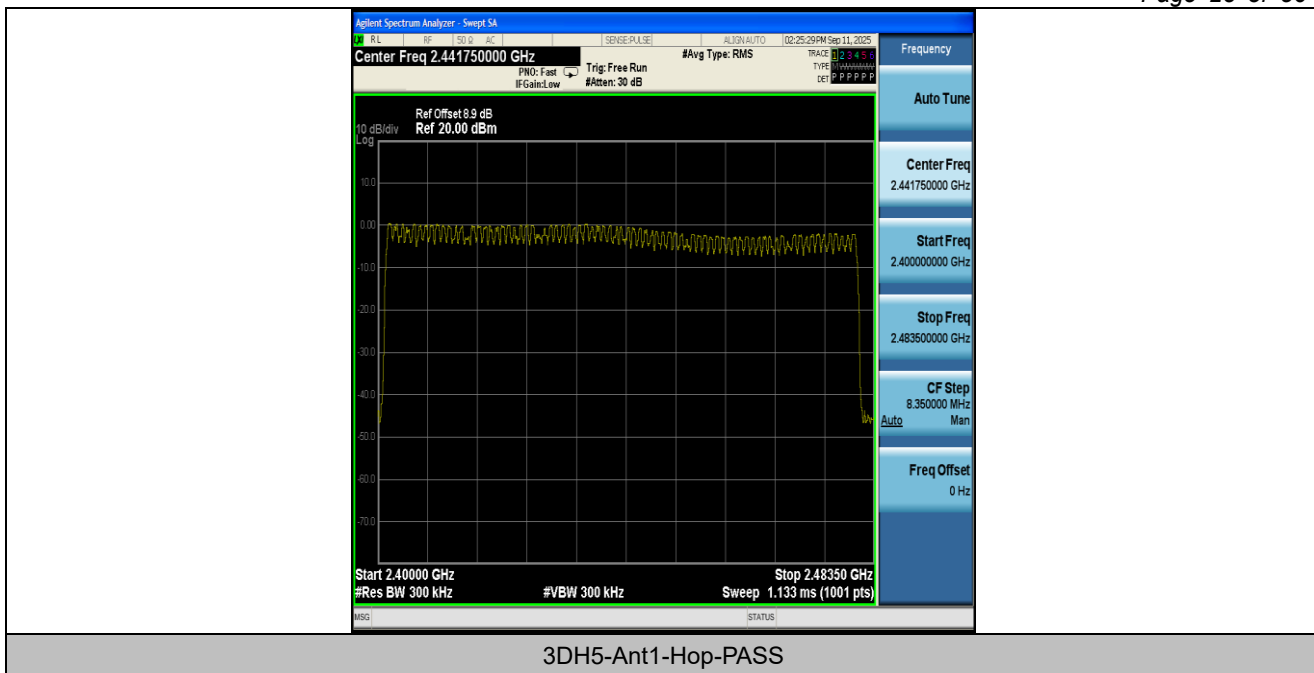
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix G: Band edge measurements

Test Result

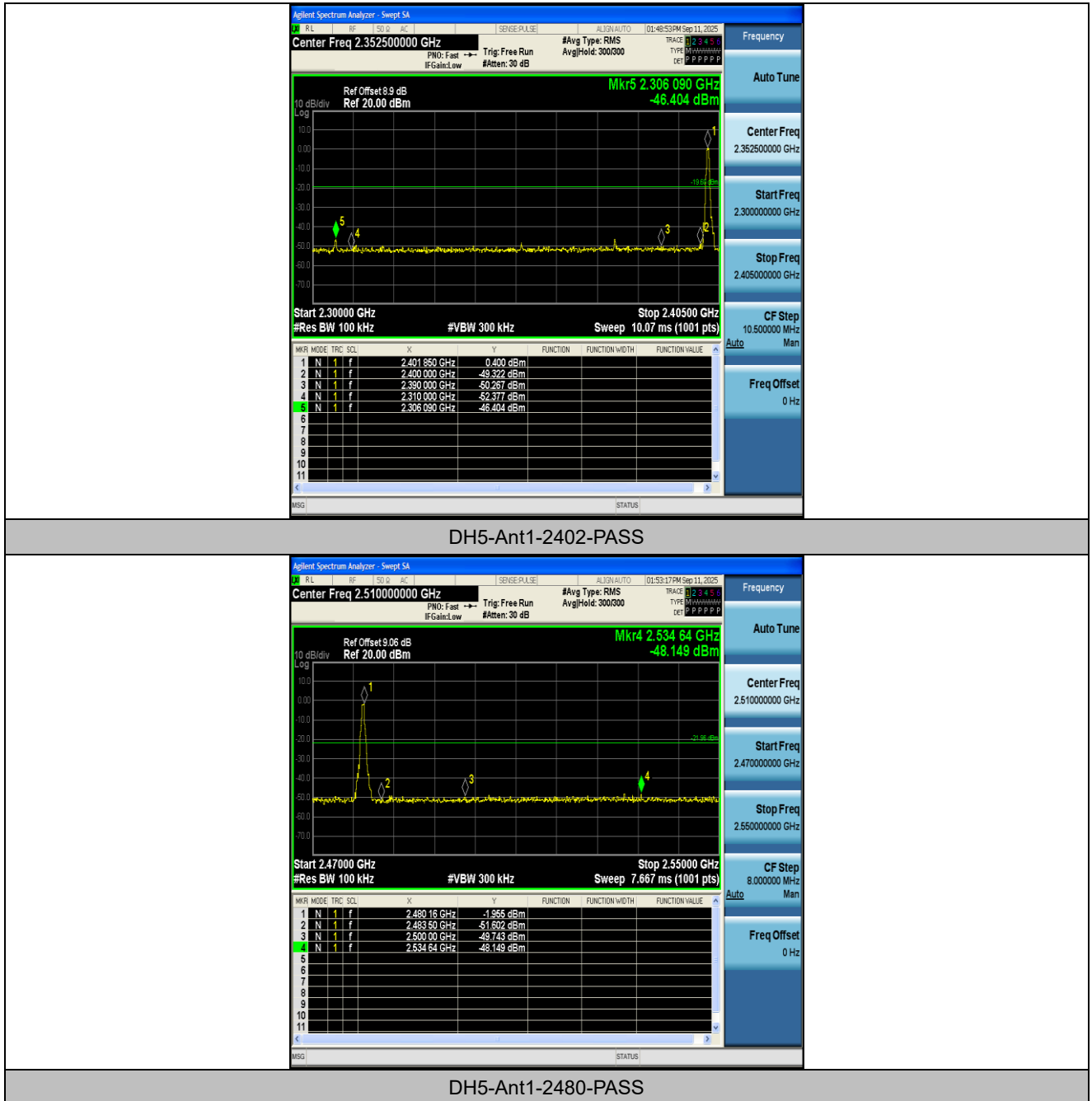
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.40	-46.4	≤-19.6	PASS
DH5	Ant1	High	2480	-1.96	-48.15	≤-21.96	PASS
DH5	Ant1	Low	Hop_2402	-0.53	-46.67	≤-20.53	PASS
DH5	Ant1	High	Hop_2480	-1.96	-45.92	≤-21.96	PASS
2DH5	Ant1	Low	2402	0.33	-47.98	≤-19.67	PASS
2DH5	Ant1	High	2480	-2.29	-48.2	≤-22.29	PASS
2DH5	Ant1	Low	Hop_2402	-2.34	-47.07	≤-22.34	PASS
2DH5	Ant1	High	Hop_2480	-3.09	-47.94	≤-23.09	PASS
3DH5	Ant1	Low	2402	-0.10	-47.8	≤-20.1	PASS
3DH5	Ant1	High	2480	-2.10	-48.72	≤-22.1	PASS
3DH5	Ant1	Low	Hop_2402	-0.56	-48.16	≤-20.56	PASS
3DH5	Ant1	High	Hop_2480	-5.99	-47.87	≤-25.99	PASS

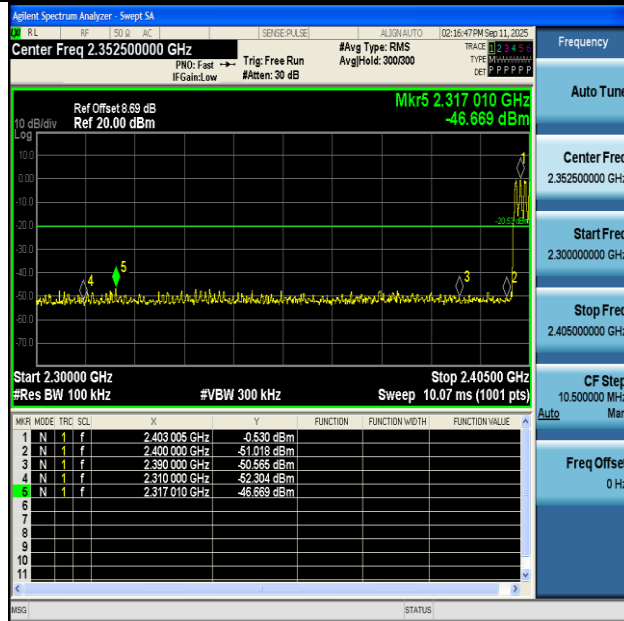
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



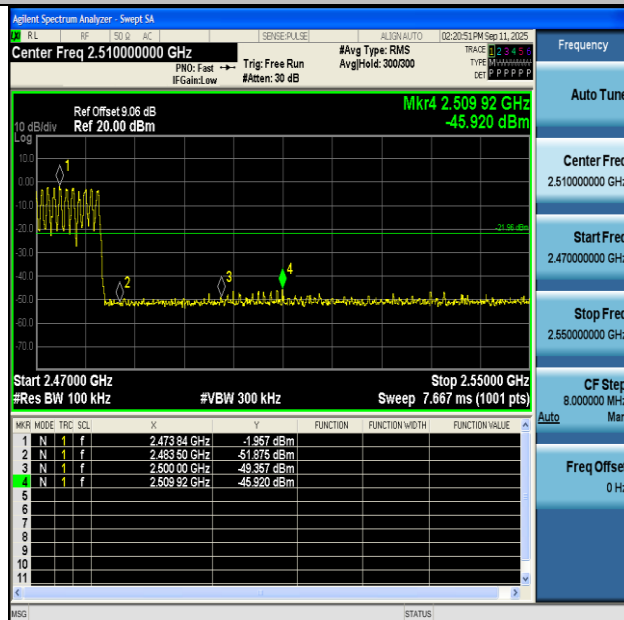


Test Graphs



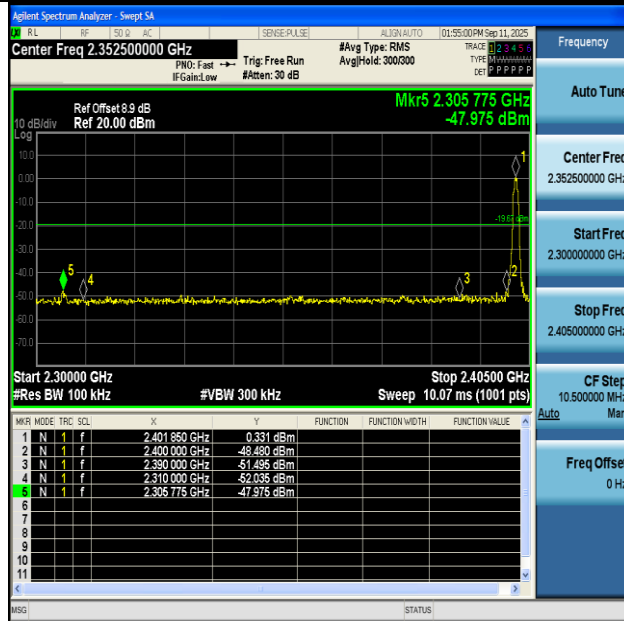


DH5-Ant1-Hop_2402-PASS

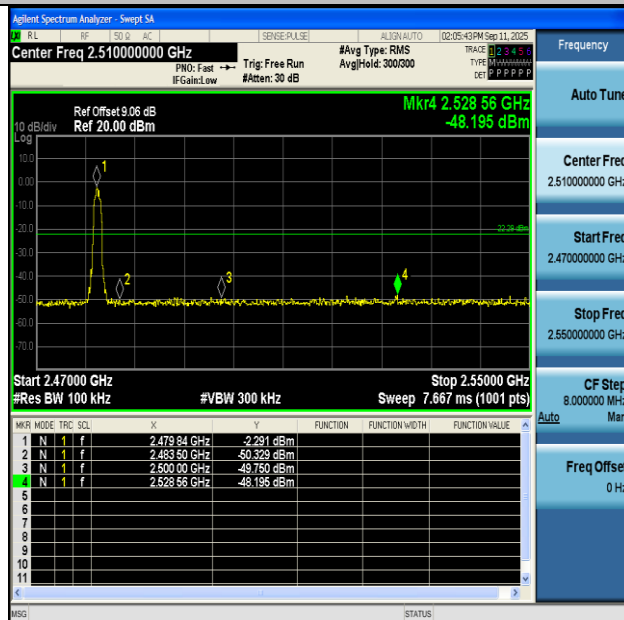


DH5-Ant1-Hop_2480-PASS



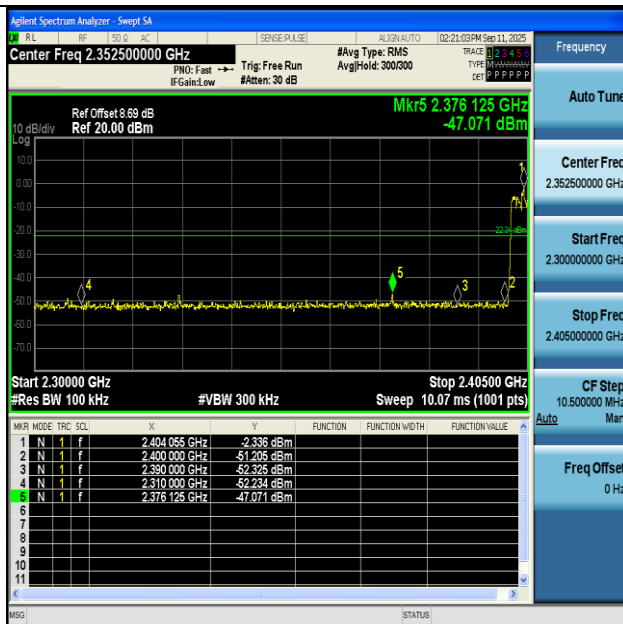


2DH5-Ant1-2402-PASS

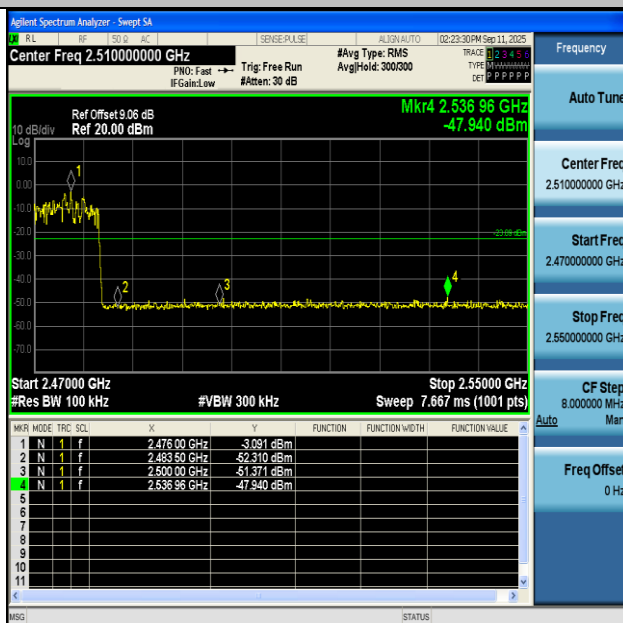


2DH5-Ant1-2480-PASS



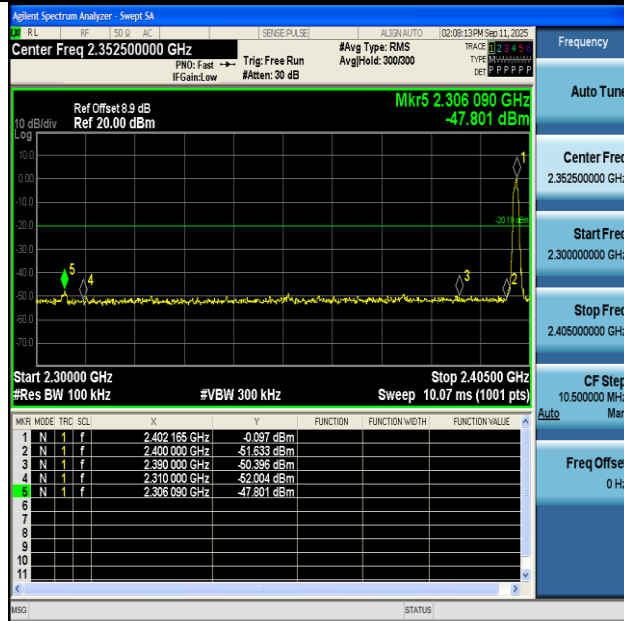


2DH5-Ant1-Hop_2402-PASS

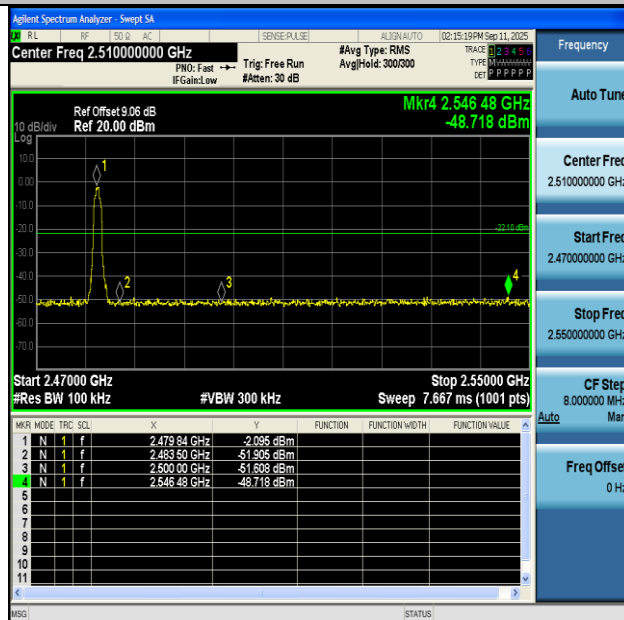


2DH5-Ant1-Hop_2480-PASS



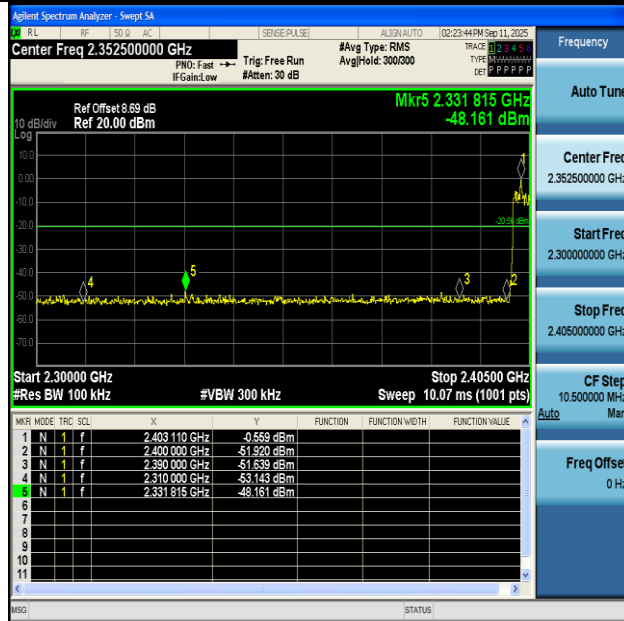


3DH5-Ant1-2402-PASS

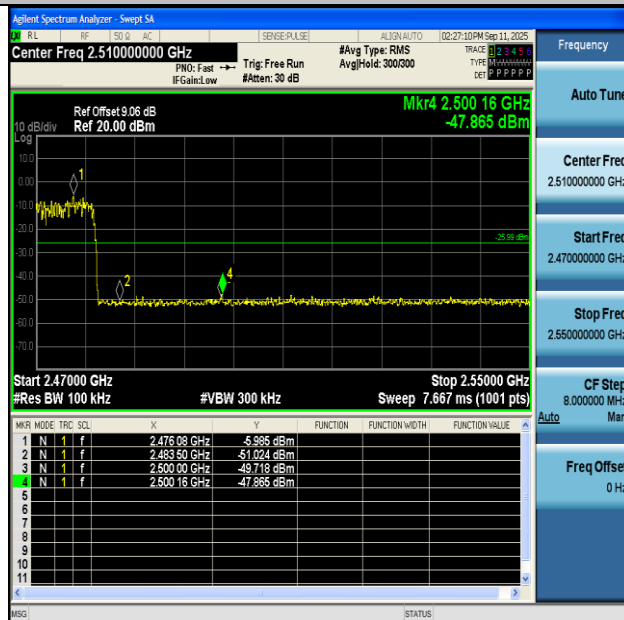


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

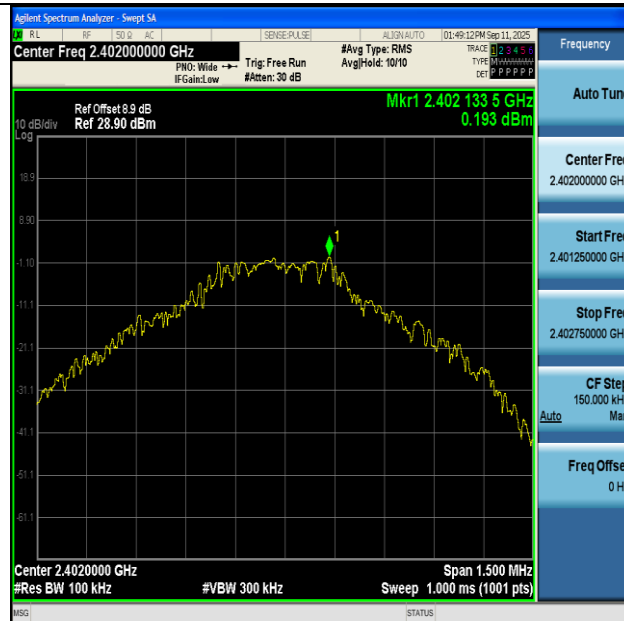
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.19	0.19	---	PASS
DH5	Ant1	2402	30~1000	0.19	-51.62	≤-19.81	PASS
DH5	Ant1	2402	1000~26500	0.19	-35.26	≤-19.81	PASS
DH5	Ant1	2441	0~Reference	-1.03	-1.03	---	PASS
DH5	Ant1	2441	30~1000	-1.03	-50.44	≤-21.03	PASS
DH5	Ant1	2441	1000~26500	-1.03	-35	≤-21.03	PASS
DH5	Ant1	2480	0~Reference	-2.04	-2.04	---	PASS
DH5	Ant1	2480	30~1000	-2.04	-51.32	≤-22.04	PASS
DH5	Ant1	2480	1000~26500	-2.04	-34.24	≤-22.04	PASS
2DH5	Ant1	2402	0~Reference	-3.92	-3.92	---	PASS
2DH5	Ant1	2402	30~1000	-3.92	-51.37	≤-23.92	PASS
2DH5	Ant1	2402	1000~26500	-3.92	-34.74	≤-23.92	PASS
2DH5	Ant1	2441	0~Reference	-5.00	-5.00	---	PASS
2DH5	Ant1	2441	30~1000	-5.00	-51.83	≤-25	PASS
2DH5	Ant1	2441	1000~26500	-5.00	-35.2	≤-25	PASS
2DH5	Ant1	2480	0~Reference	-4.82	-4.82	---	PASS
2DH5	Ant1	2480	30~1000	-4.82	-51.31	≤-24.82	PASS
2DH5	Ant1	2480	1000~26500	-4.82	-35.18	≤-24.82	PASS
3DH5	Ant1	2402	0~Reference	-0.66	-0.66	---	PASS
3DH5	Ant1	2402	30~1000	-0.66	-43.68	≤-20.66	PASS
3DH5	Ant1	2402	1000~26500	-0.66	-35.61	≤-20.66	PASS
3DH5	Ant1	2441	0~Reference	-0.43	-0.43	---	PASS
3DH5	Ant1	2441	30~1000	-0.43	-51.69	≤-20.43	PASS
3DH5	Ant1	2441	1000~26500	-0.43	-34.14	≤-20.43	PASS
3DH5	Ant1	2480	0~Reference	-6.25	-6.25	---	PASS
3DH5	Ant1	2480	30~1000	-6.25	-44.5	≤-26.25	PASS
3DH5	Ant1	2480	1000~26500	-6.25	-34.44	≤-26.25	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.

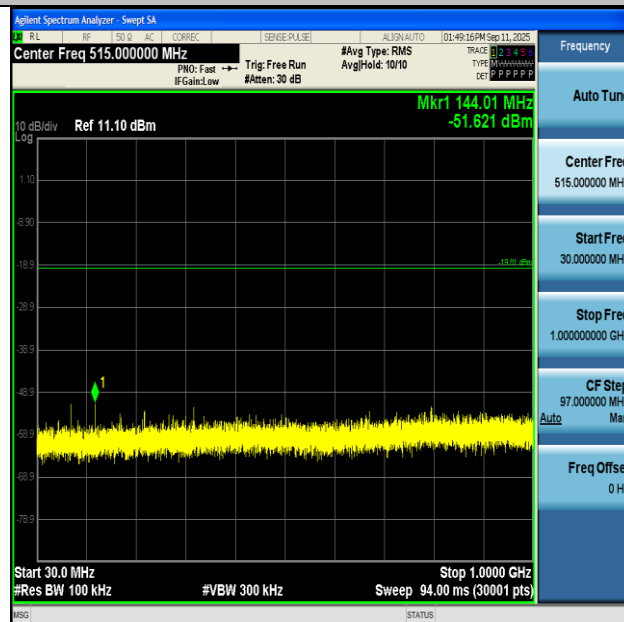




Test Graphs

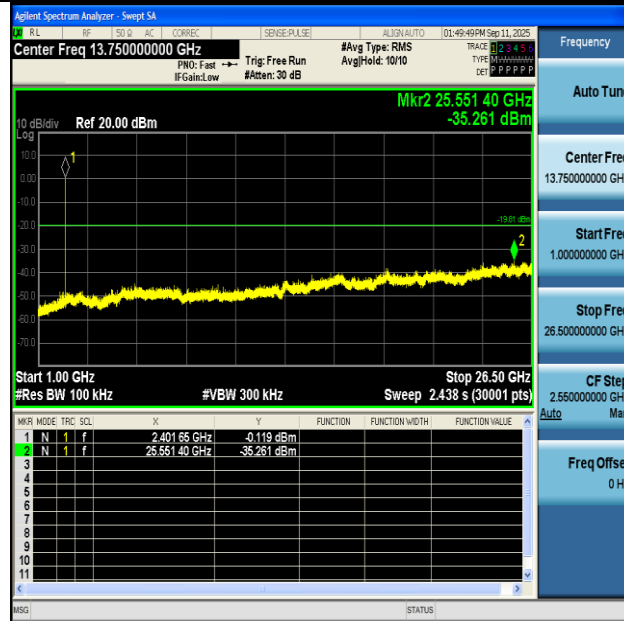


DH5-Ant1-2402-0~Reference-PASS

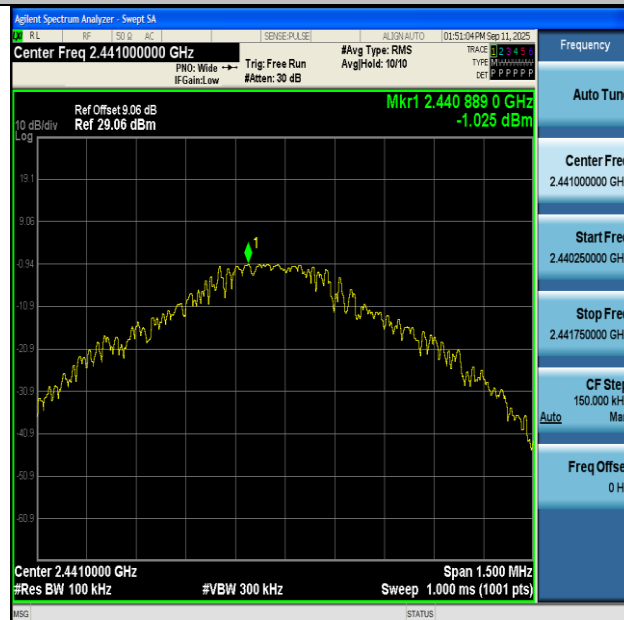


DH5-Ant1-2402-30~1000-PASS



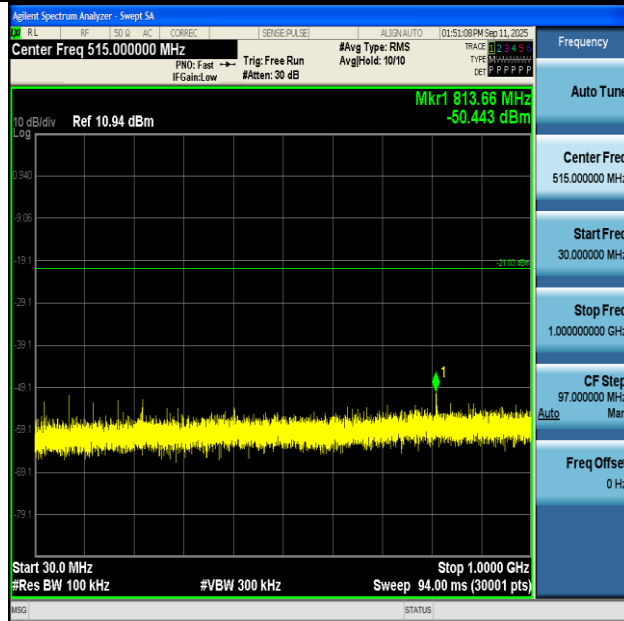


DH5-Ant1-2402-1000~26500-PASS

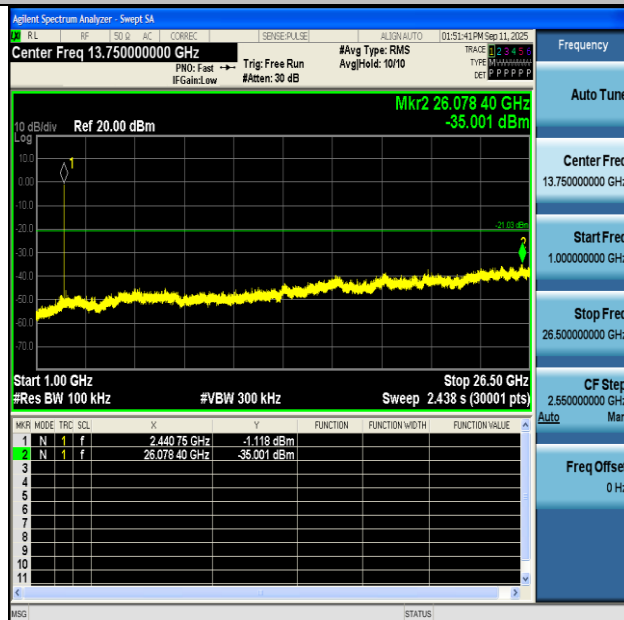


DH5-Ant1-2441-0~Reference-PASS



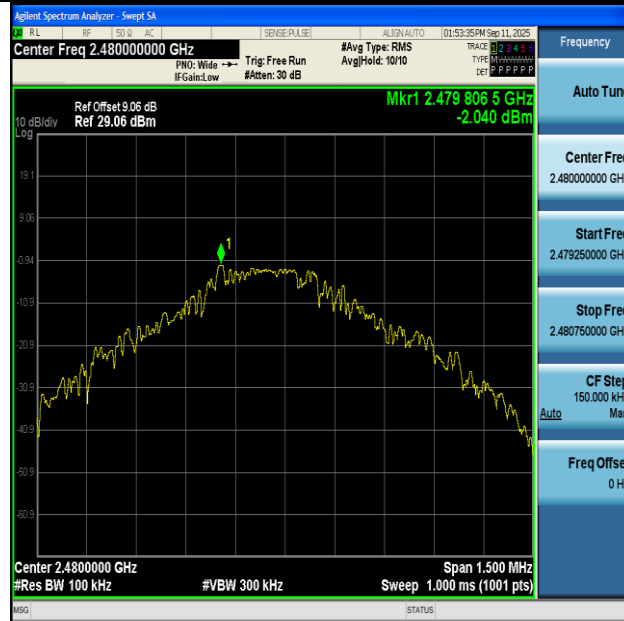


DH5-Ant1-2441-30~1000-PASS

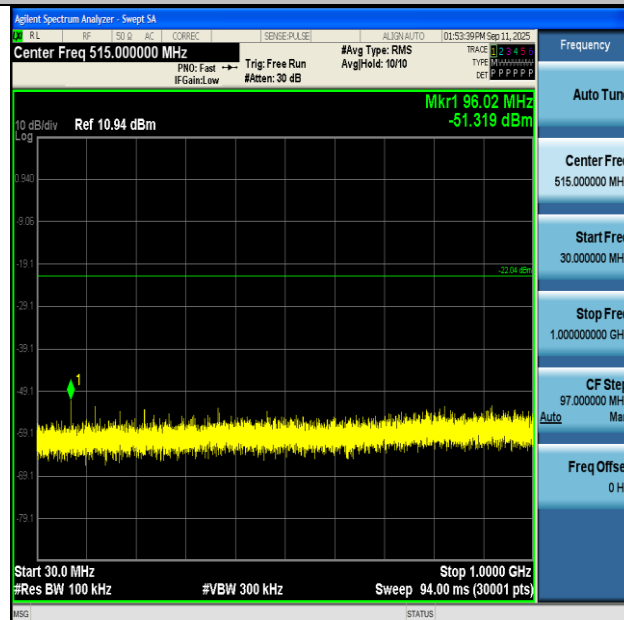


DH5-Ant1-2441-1000~26500-PASS



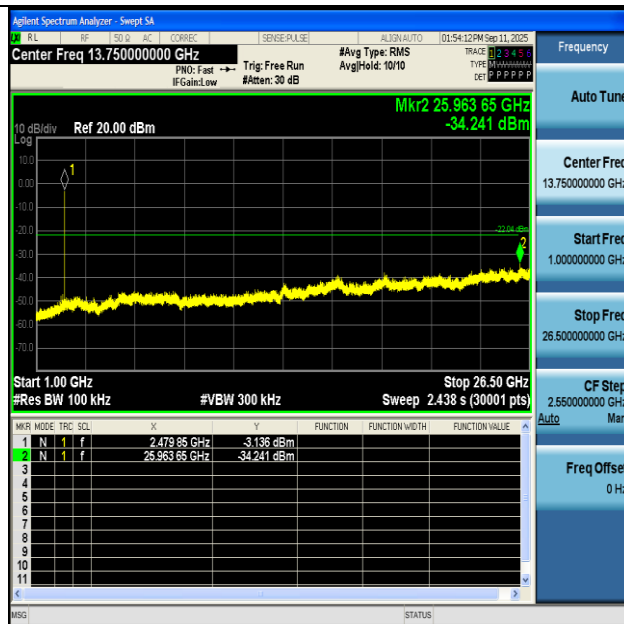


DH5-Ant1-2480-0~Reference-PASS

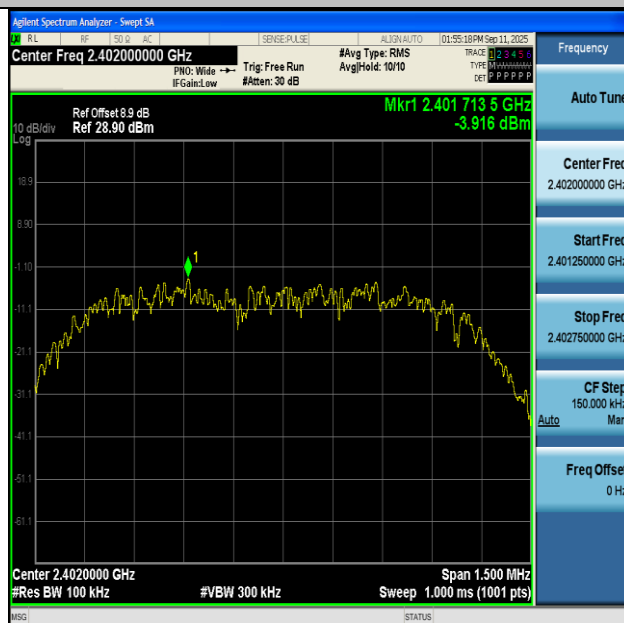


DH5-Ant1-2480-30~1000-PASS





DH5-Ant1-2480-1000~26500-PASS

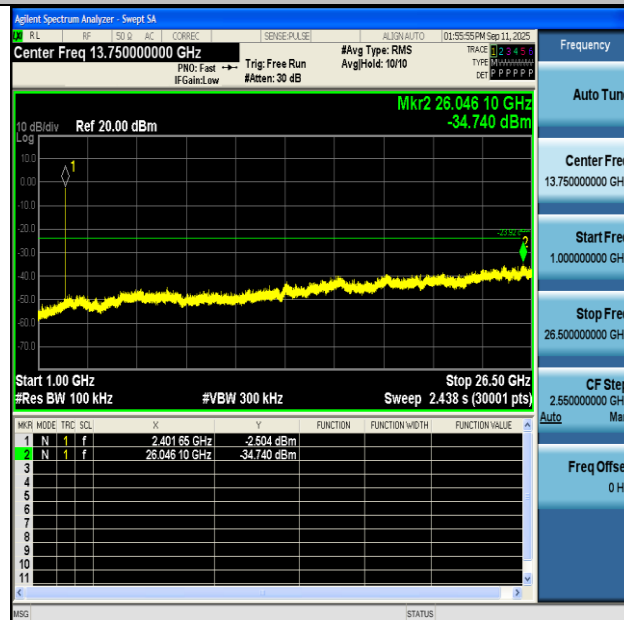


2DH5-Ant1-2402-0~Reference-PASS





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

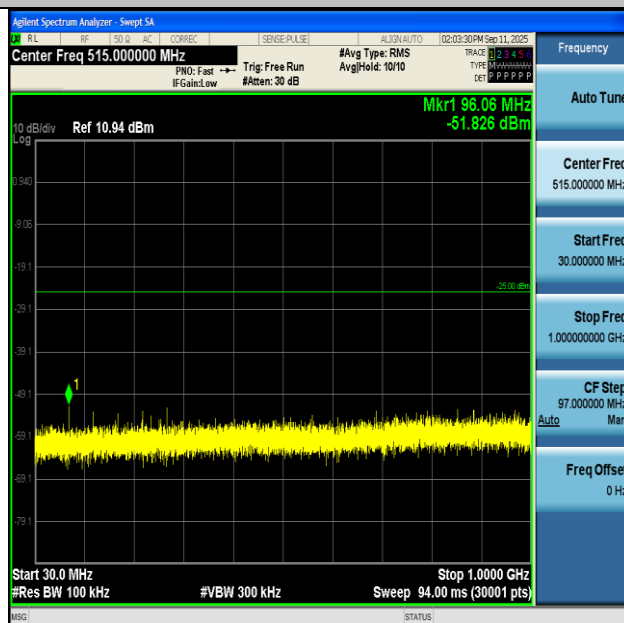


2DH5-Ant1-2402-1000~26500-PASS



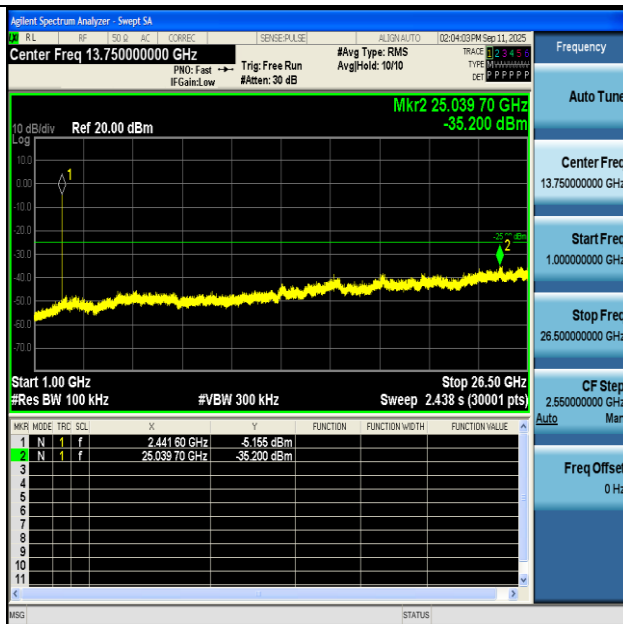


2DH5-Ant1-2441-0~Reference-PASS

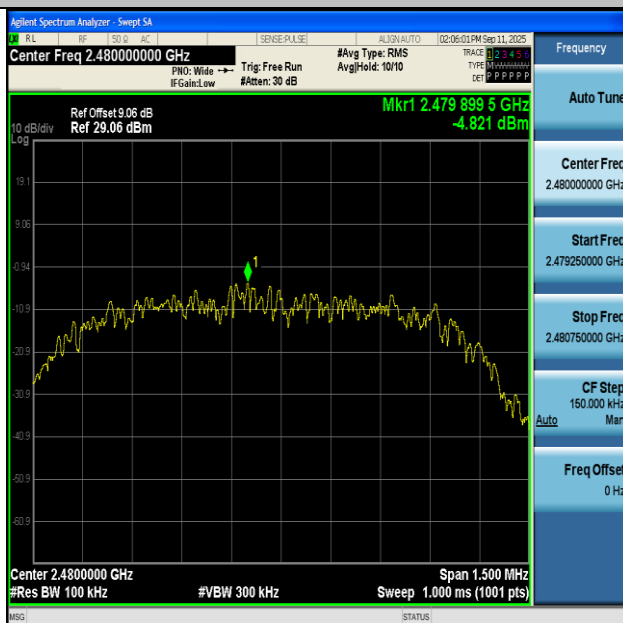


2DH5-Ant1-2441-30~1000-PASS



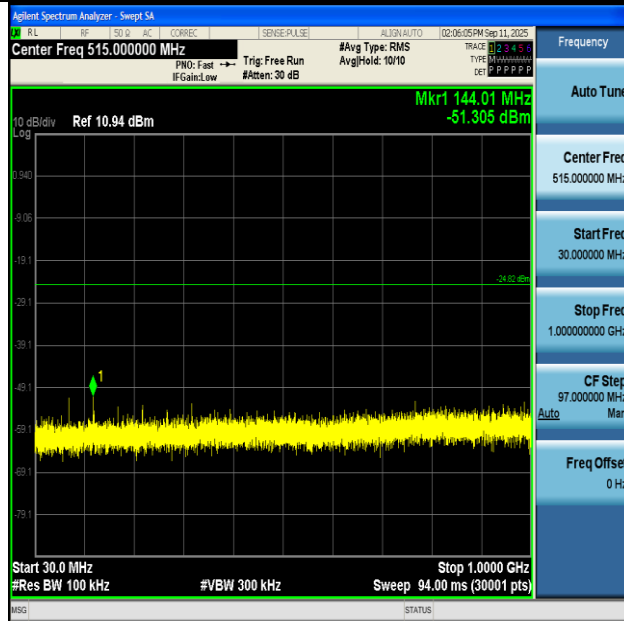


2DH5-Ant1-2441-1000~26500-PASS

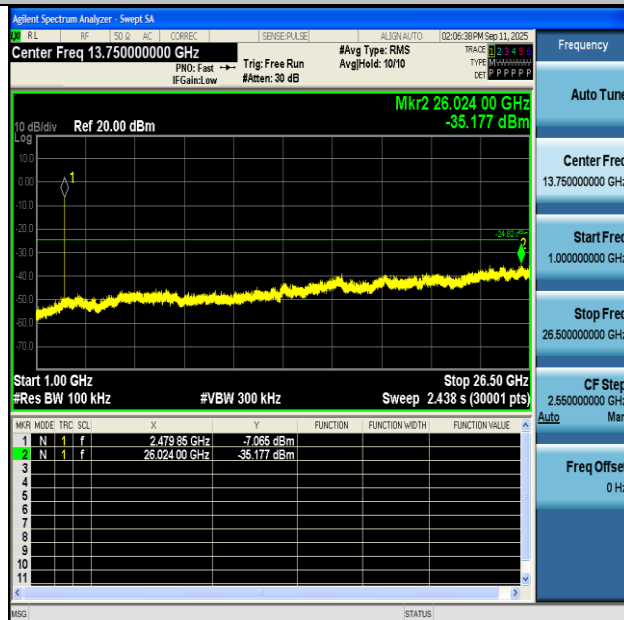


2DH5-Ant1-2480-0~Reference-PASS





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

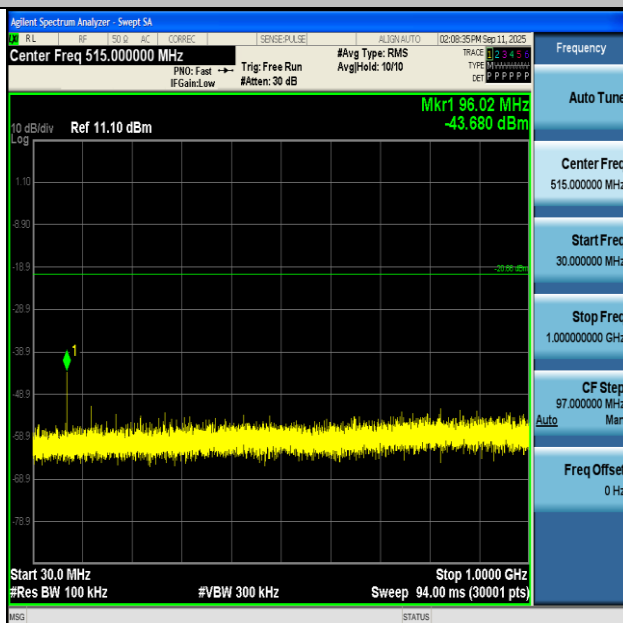


2DH5-Ant1-2480-1000~26500-PASS



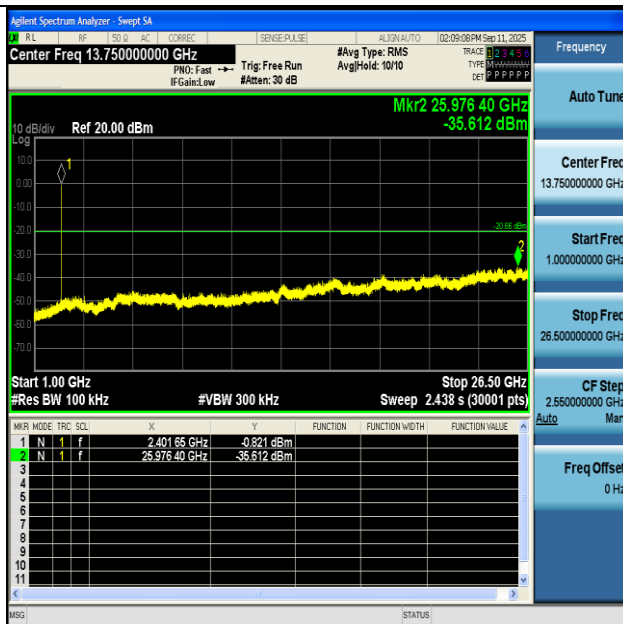


3DH5-Ant1-2402-0~Reference-PASS

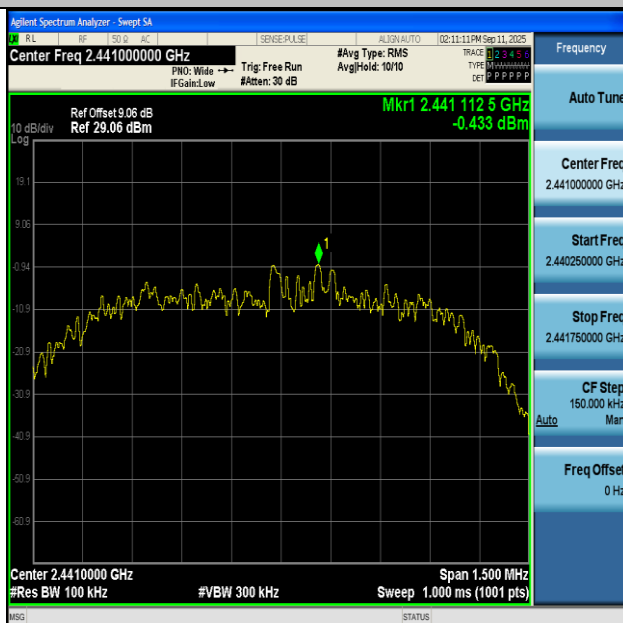


3DH5-Ant1-2402-30~1000-PASS



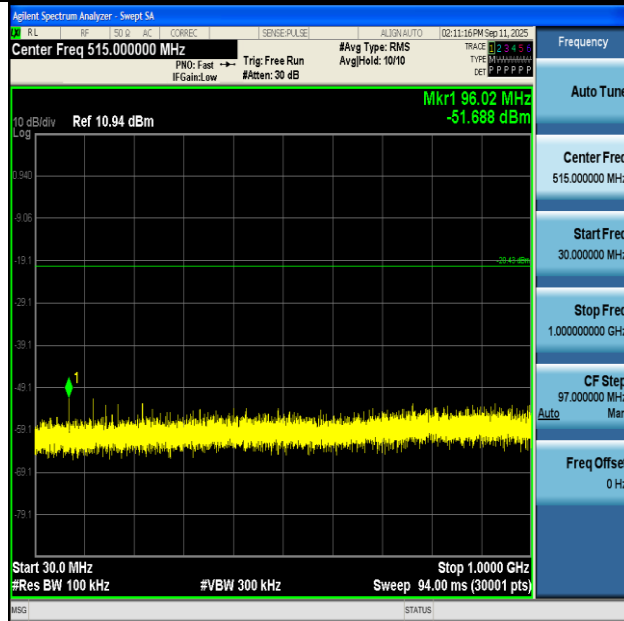


3DH5-Ant1-2402-1000~26500-PASS

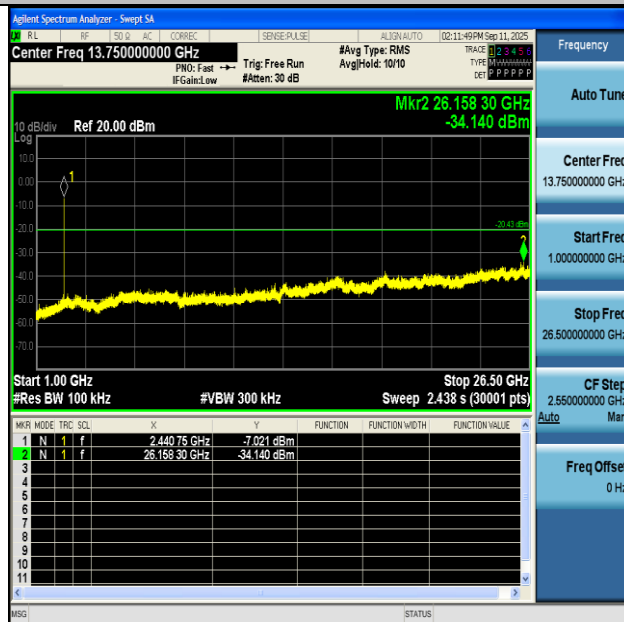


3DH5-Ant1-2441-0~Reference-PASS



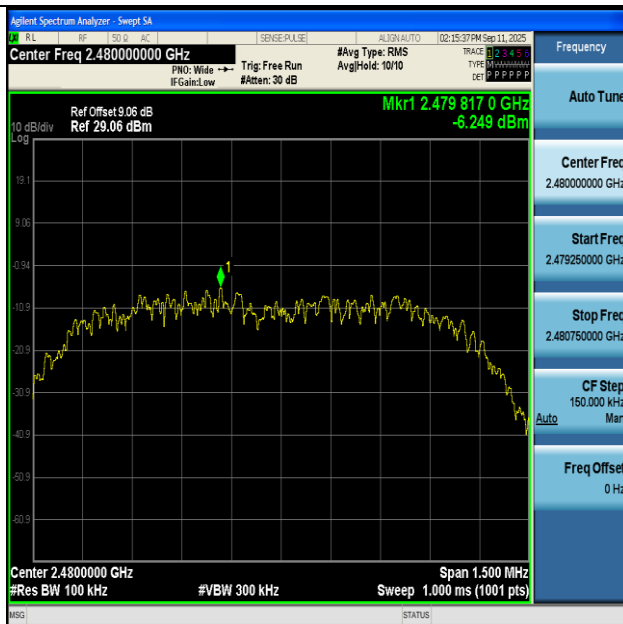


3DH5-Ant1-2441-30~1000-PASS

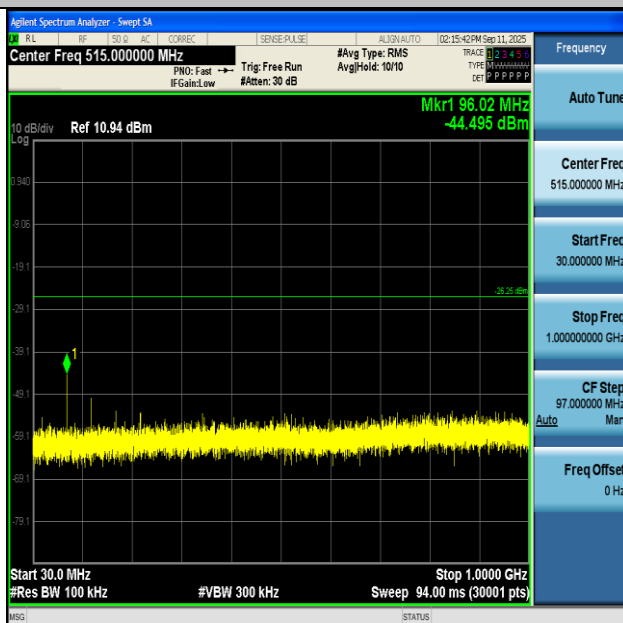


3DH5-Ant1-2441-1000~26500-PASS



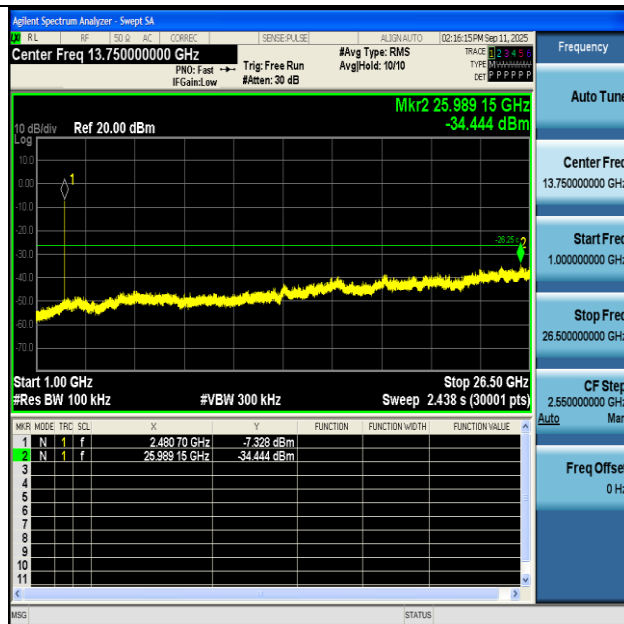


3DH5-Ant1-2480-0~Reference-PASS



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





3DH5-Ant1-2480-1000~26500-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	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.88	3.75	76.80	1.15
3DH5	Ant1	2480	2.88	3.75	76.80	1.15

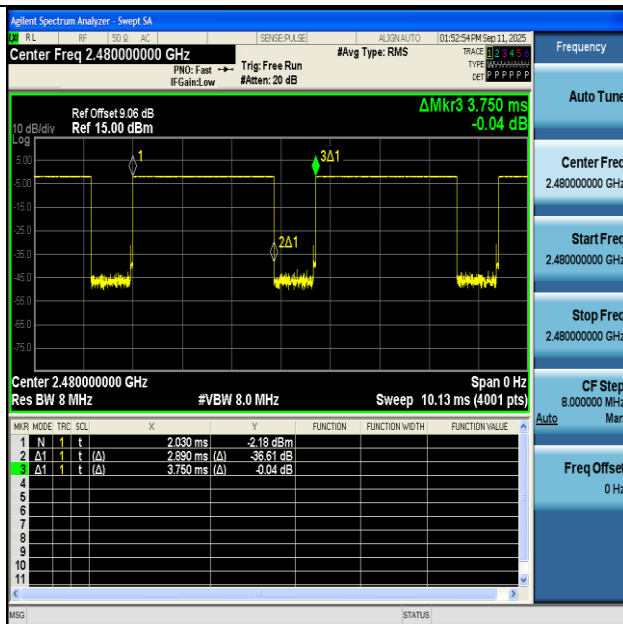
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



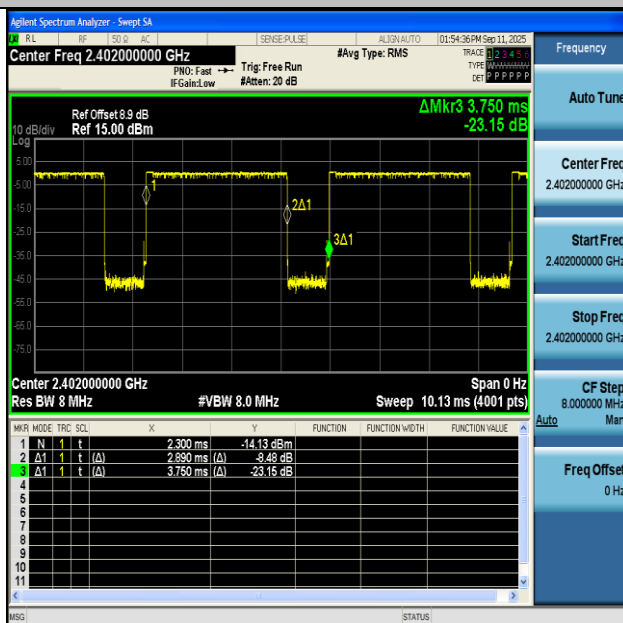


Test Graphs



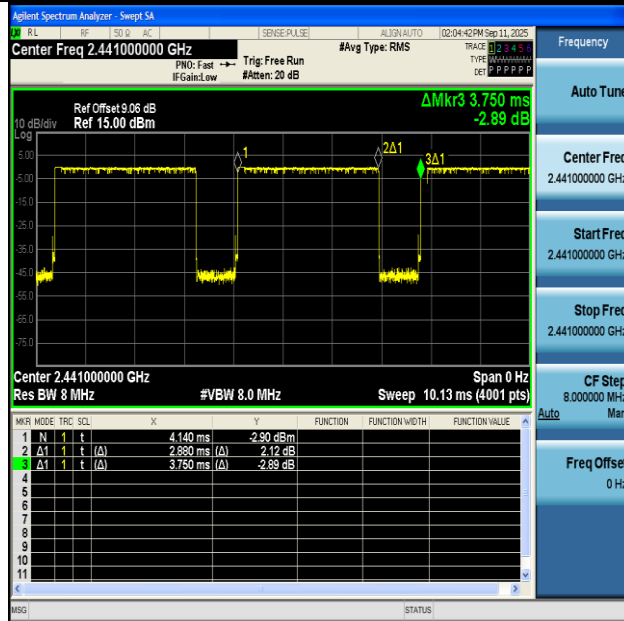


NTNV-DH5-Ant1-2480

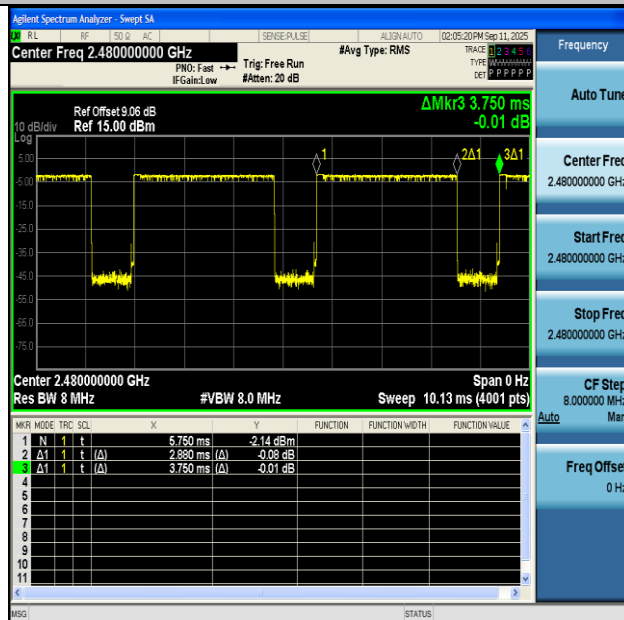


NTNV-2DH5-Ant1-2402





NTNV-2DH5-Ant1-2441

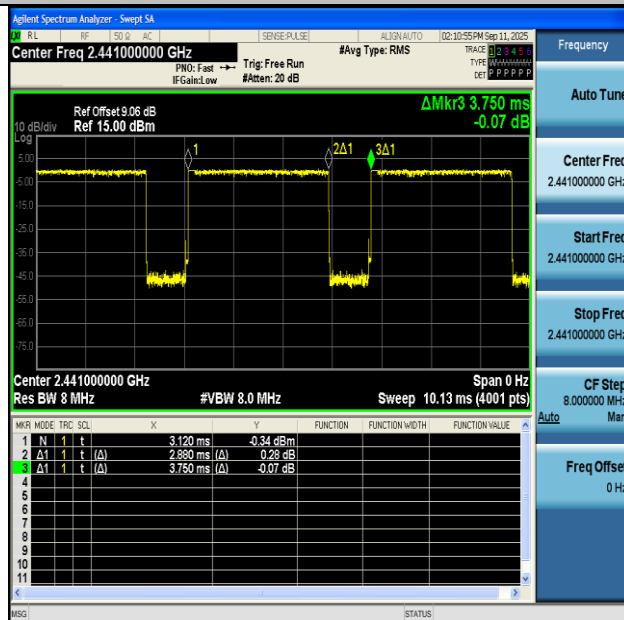


NTNV-2DH5-Ant1-2480



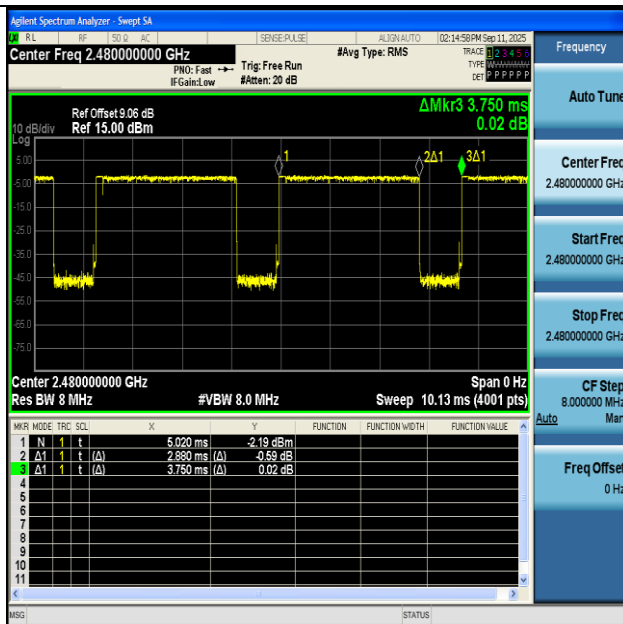


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

