



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

Product Name: Bluetooth Earbuds

Trade Mark: /

Test Model: BH26CT11A

FCC ID: RDR-CT11AL

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	1.029	2401.466	2402.495	---	---
DH5	Ant1	2441	1.032	2440.472	2441.504	---	---
DH5	Ant1	2480	1.041	2479.472	2480.513	---	---
2DH5	Ant1	2402	1.287	2401.367	2402.654	---	---
2DH5	Ant1	2441	1.317	2440.337	2441.654	---	---
2DH5	Ant1	2480	1.266	2479.373	2480.639	---	---
3DH5	Ant1	2402	1.242	2401.382	2402.624	---	---
3DH5	Ant1	2441	1.311	2440.343	2441.654	---	---
3DH5	Ant1	2480	1.278	2479.355	2480.633	---	---

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	0.91834	2401.5432	2402.4615	---	---
DH5	Ant1	2441	0.92525	2440.5412	2441.4665	---	---
DH5	Ant1	2480	0.91222	2479.5480	2480.4602	---	---
2DH5	Ant1	2402	1.1679	2401.4122	2402.5801	---	---
2DH5	Ant1	2441	1.1682	2440.4123	2441.5805	---	---
2DH5	Ant1	2480	1.1671	2479.4123	2480.5794	---	---
3DH5	Ant1	2402	1.1801	2401.4116	2402.5917	---	---
3DH5	Ant1	2441	1.1732	2440.4116	2441.5848	---	---
3DH5	Ant1	2480	1.1690	2479.4149	2480.5839	---	---

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



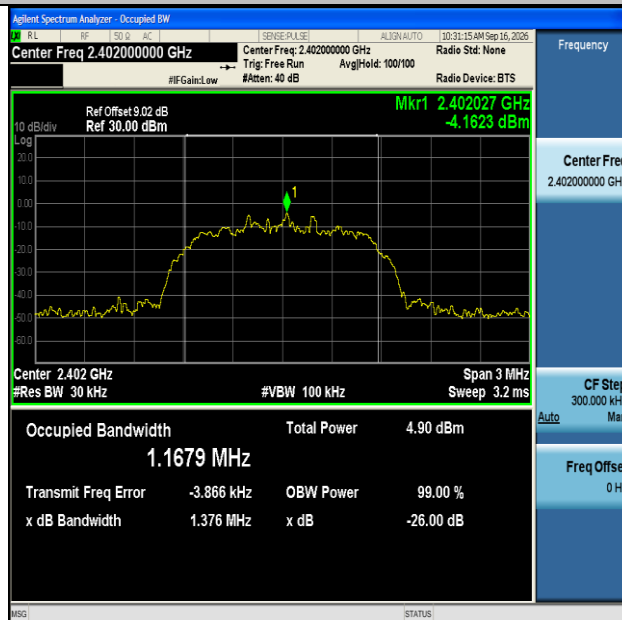


Test Graphs





DH5-Ant1-2480

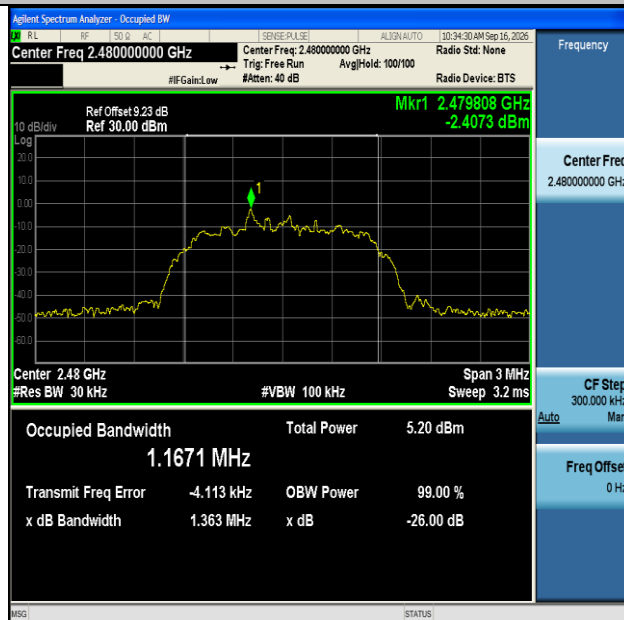


2DH5-Ant1-2402



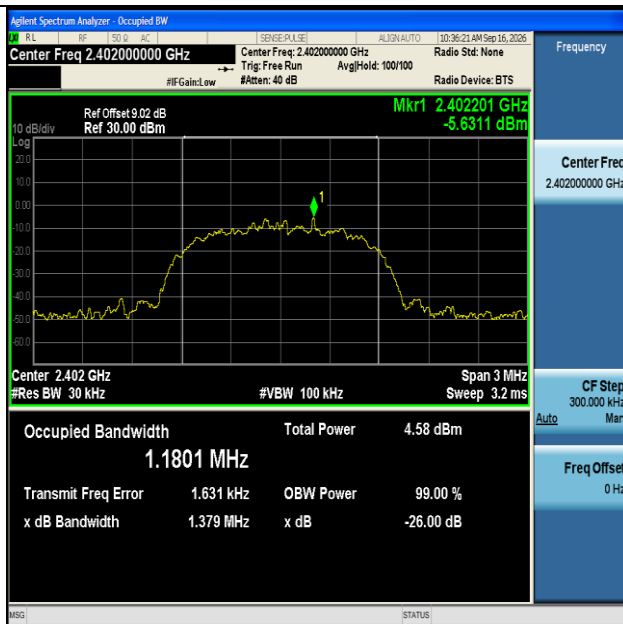


2DH5-Ant1-2441

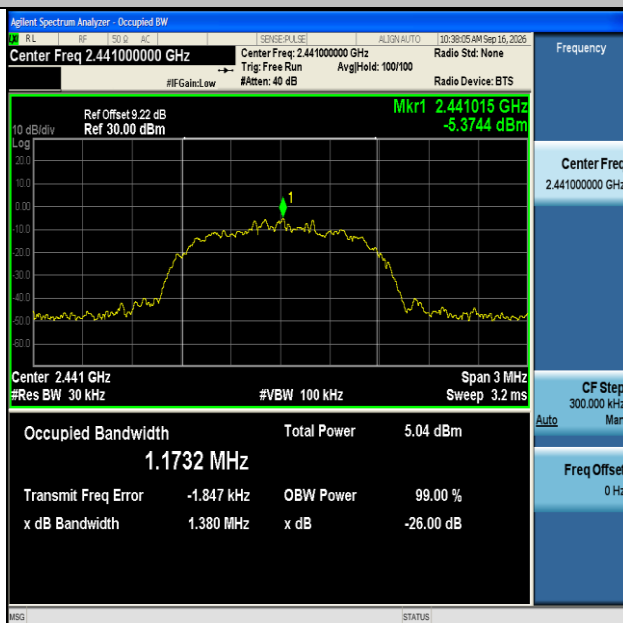


2DH5-Ant1-2480



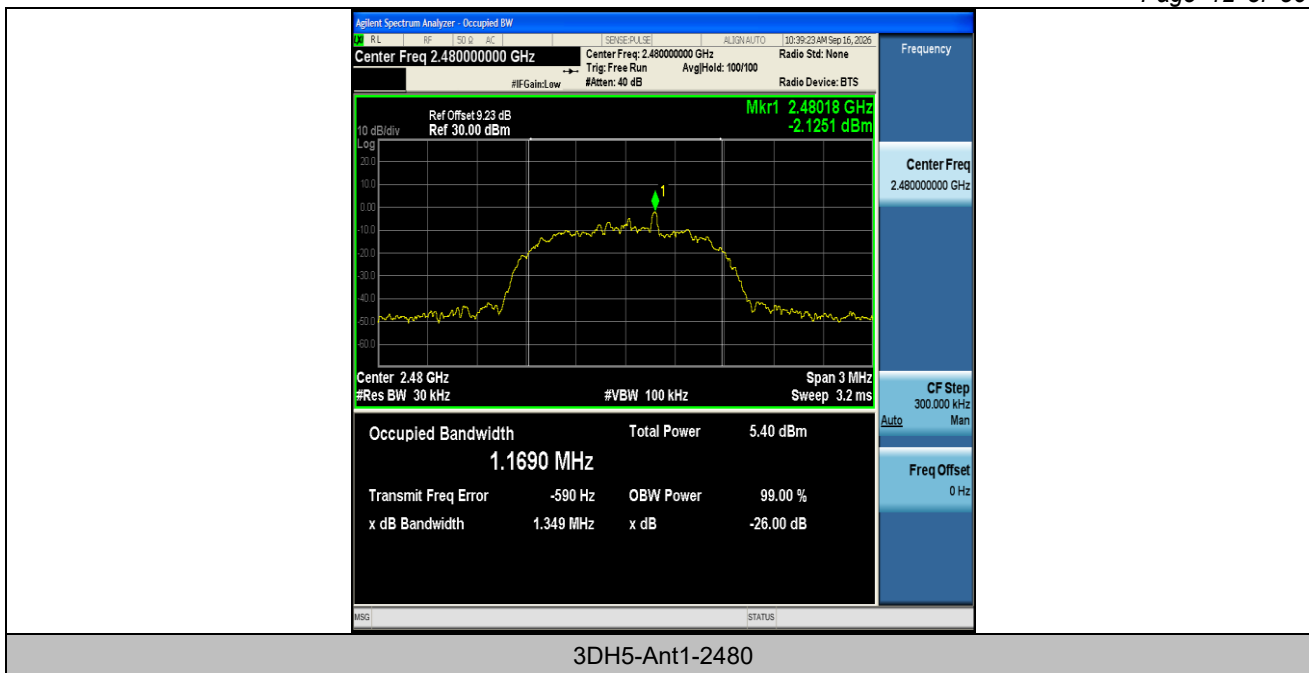


3DH5-Ant1-2402



3DH5-Ant1-2441







Appendix C: Maximum peak conducted output power

Test Result

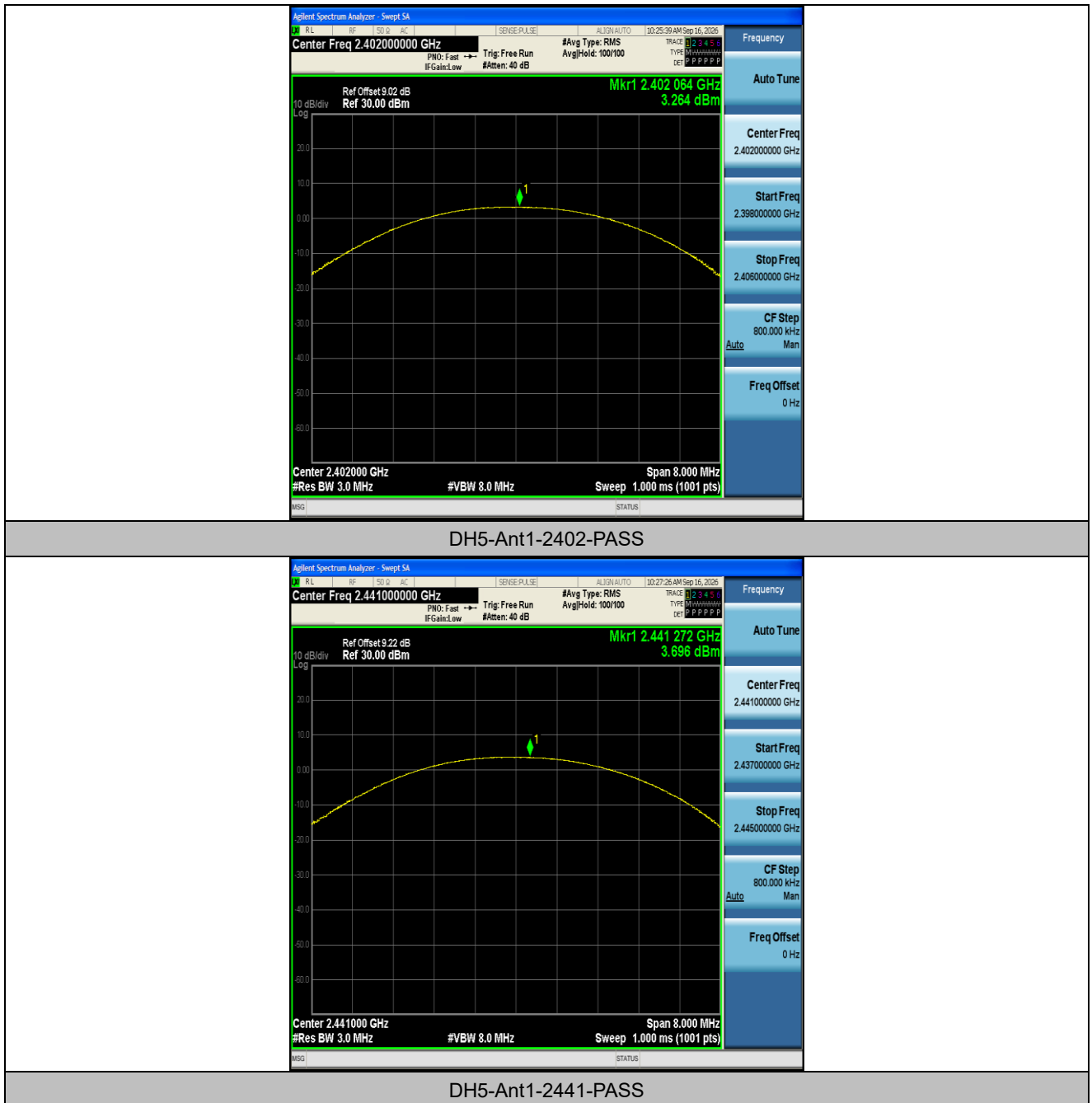
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	3.26	≤20.97	PASS
DH5	Ant1	2441	3.70	≤20.97	PASS
DH5	Ant1	2480	3.73	≤20.97	PASS
2DH5	Ant1	2402	0.44	≤20.97	PASS
2DH5	Ant1	2441	0.61	≤20.97	PASS
2DH5	Ant1	2480	0.69	≤20.97	PASS
3DH5	Ant1	2402	0.45	≤20.97	PASS
3DH5	Ant1	2441	0.74	≤20.97	PASS
3DH5	Ant1	2480	0.68	≤20.97	PASS

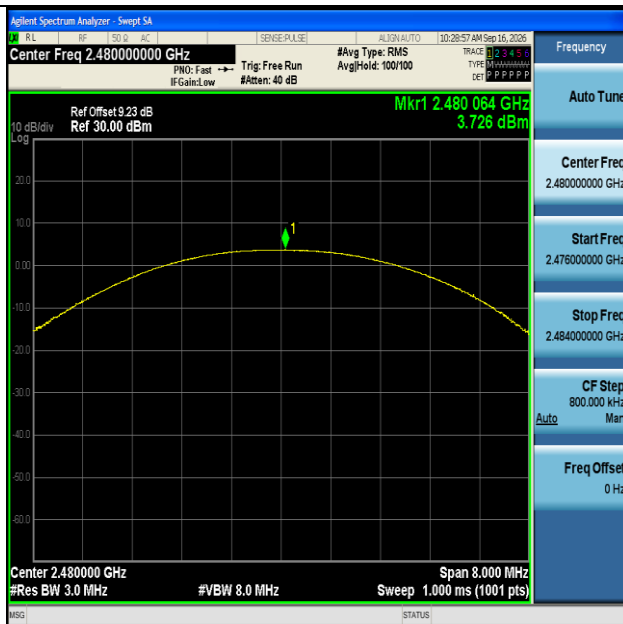
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



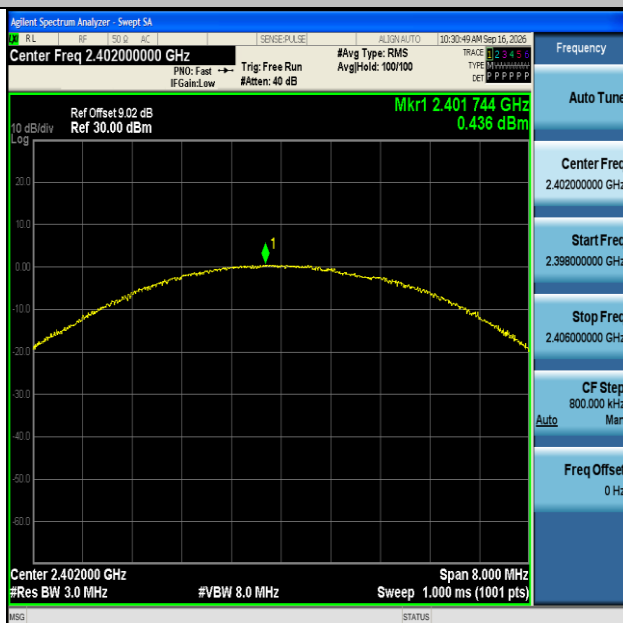


Test Graphs



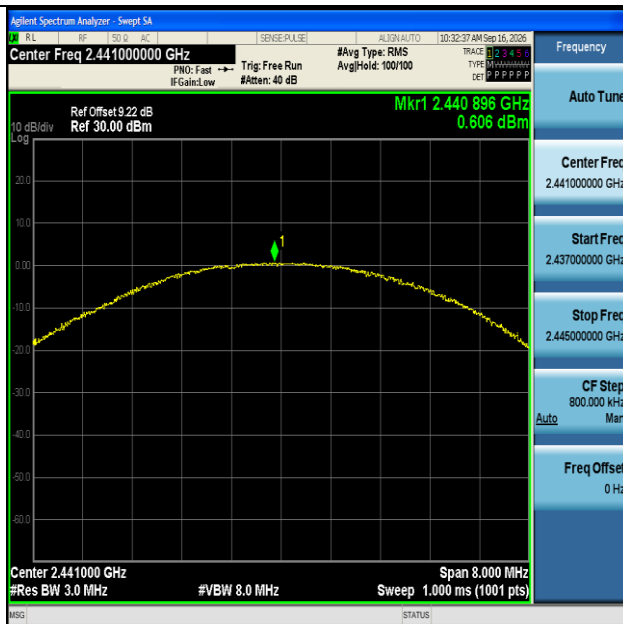


DH5-Ant1-2480-PASS

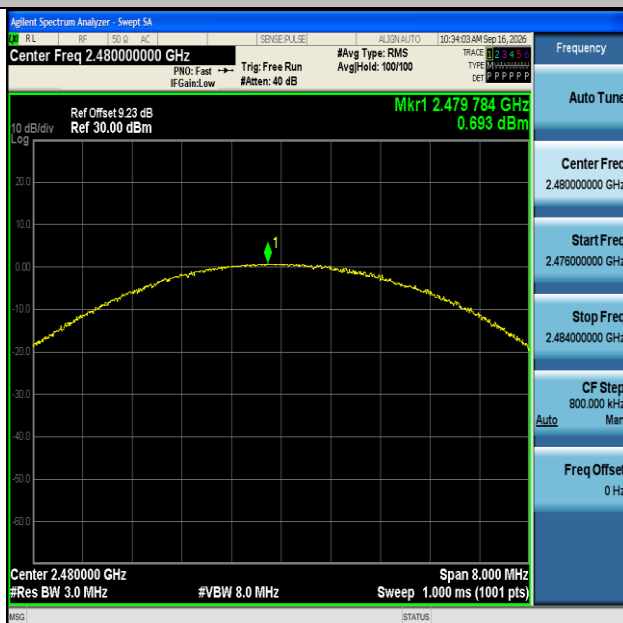


2DH5-Ant1-2402-PASS



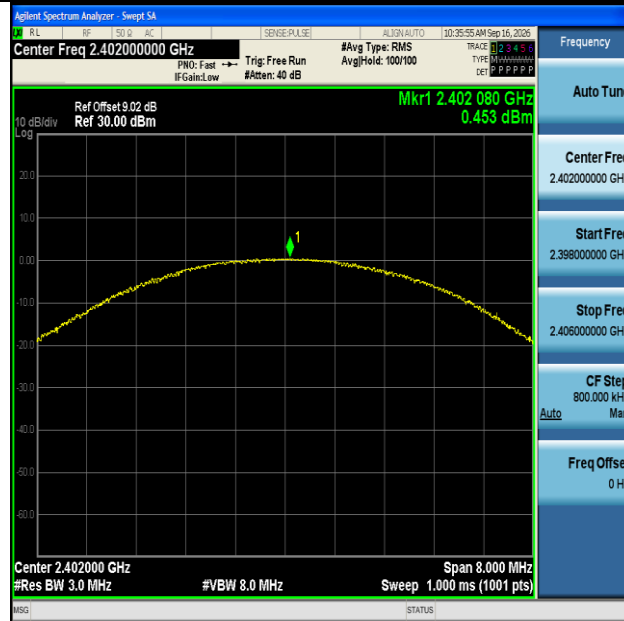


2DH5-Ant1-2441-PASS

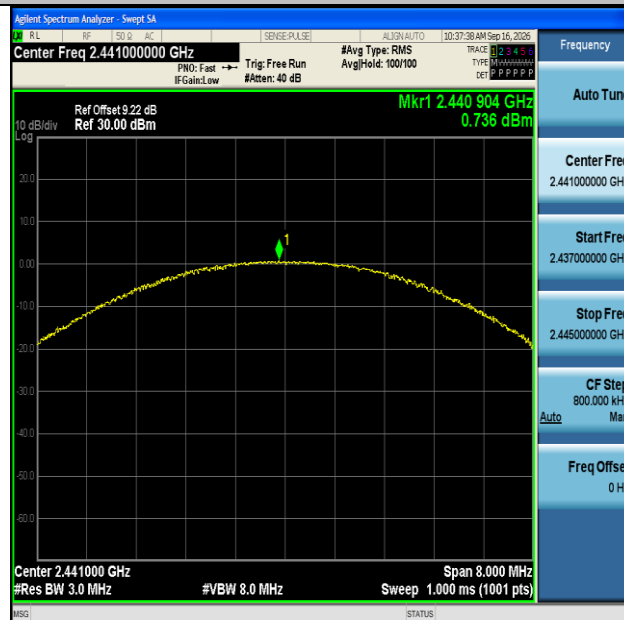


2DH5-Ant1-2480-PASS



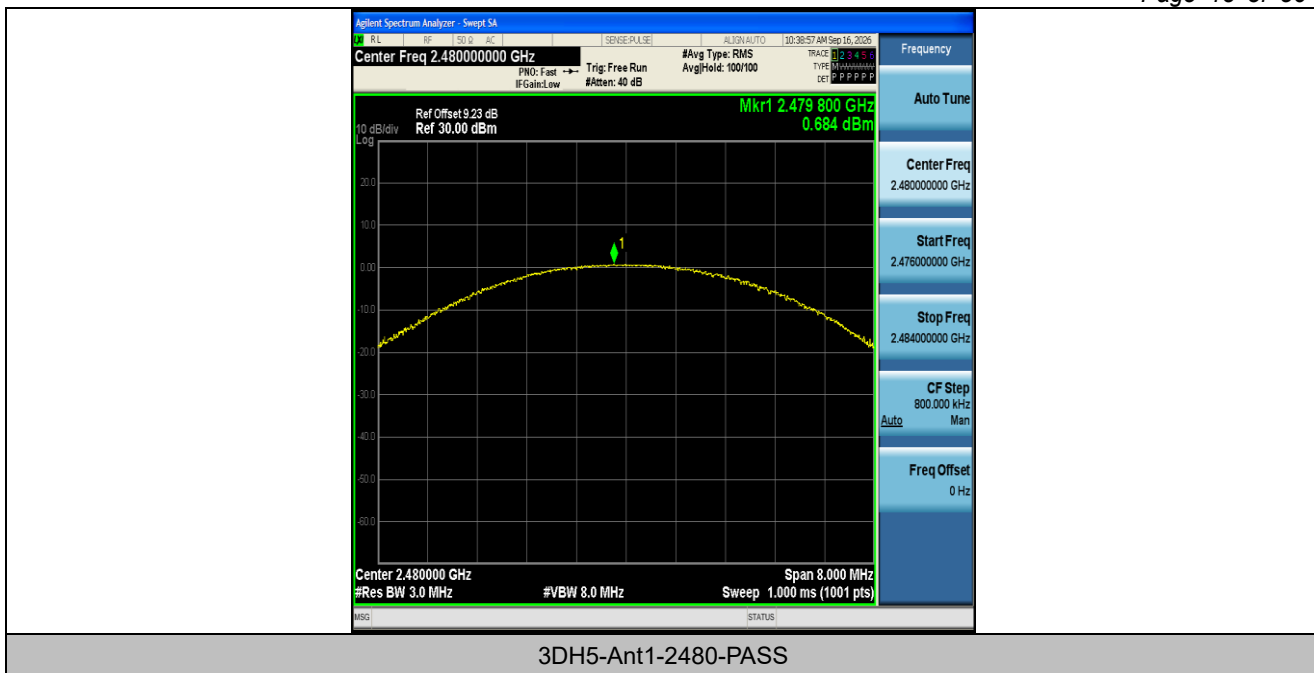


3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS







Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.694	PASS
2DH5	Ant1	Hop	1.01	≥ 0.878	PASS
3DH5	Ant1	Hop	1	≥ 0.874	PASS

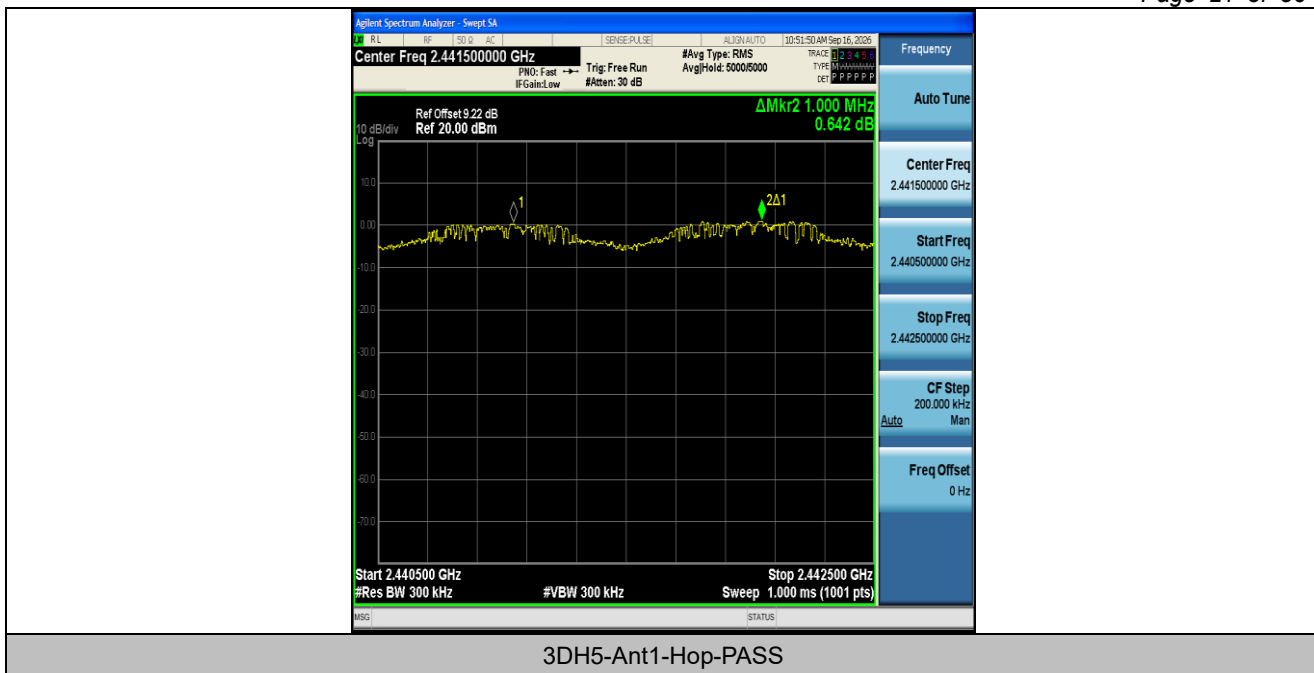
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Time of occupancy

Test Result

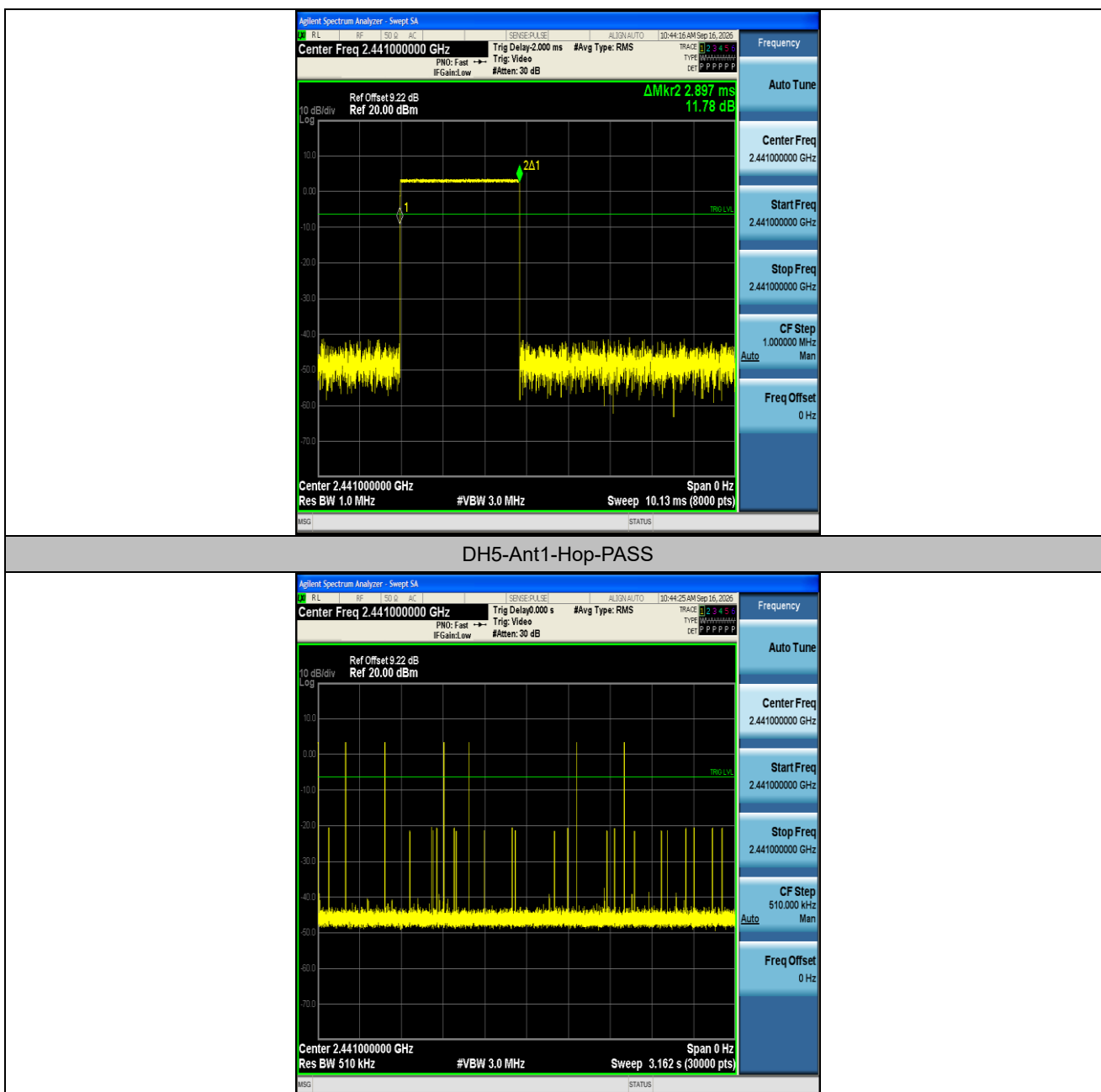
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.897	70	0.203	≤0.4	PASS
2DH5	Ant1	Hop	2.904	100	0.29	≤0.4	PASS
3DH5	Ant1	Hop	2.904	90	0.261	≤0.4	PASS

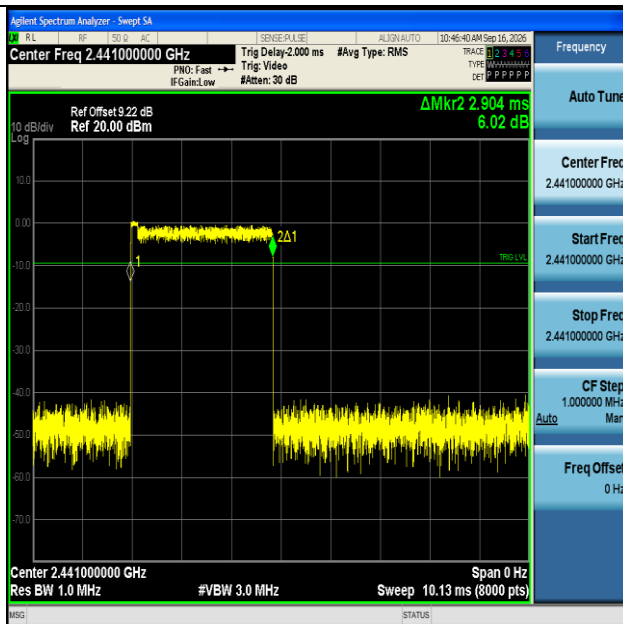
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



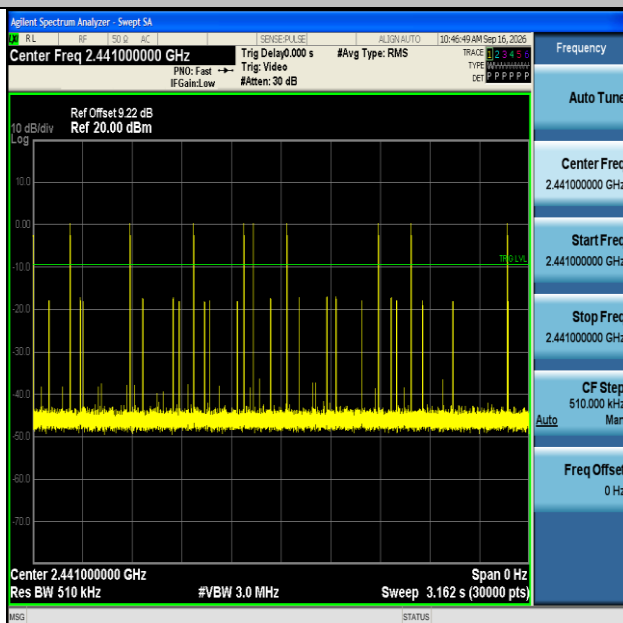


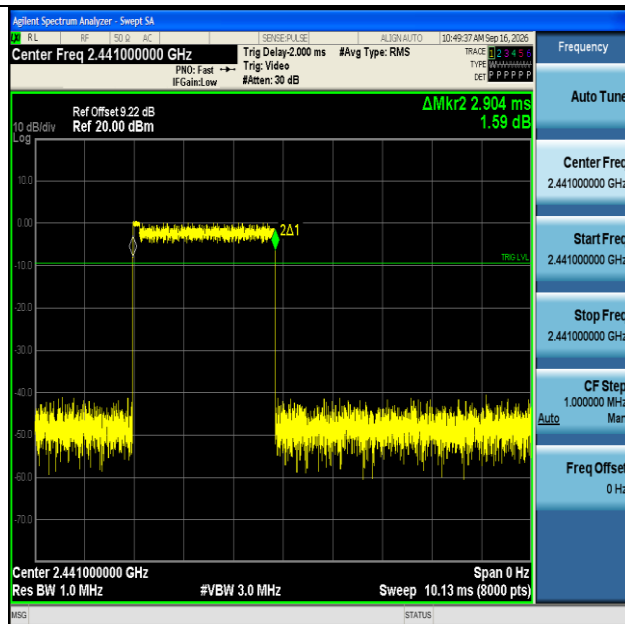
Test Graphs



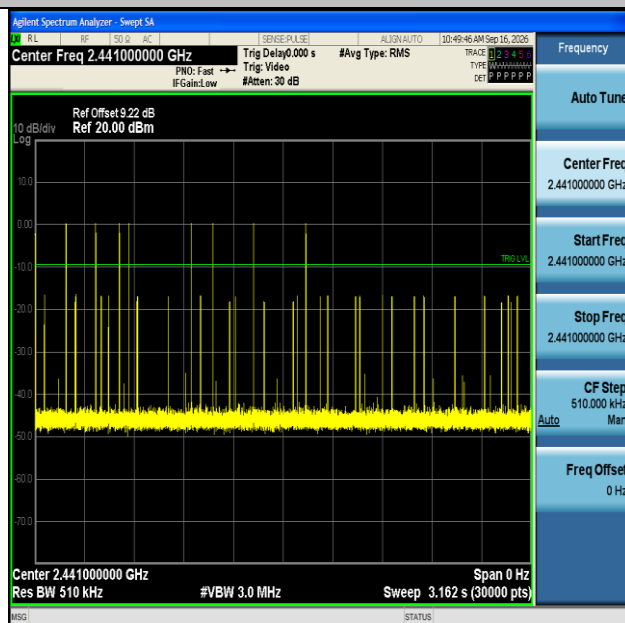


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS





Appendix F: Number of hopping channels

Test Result

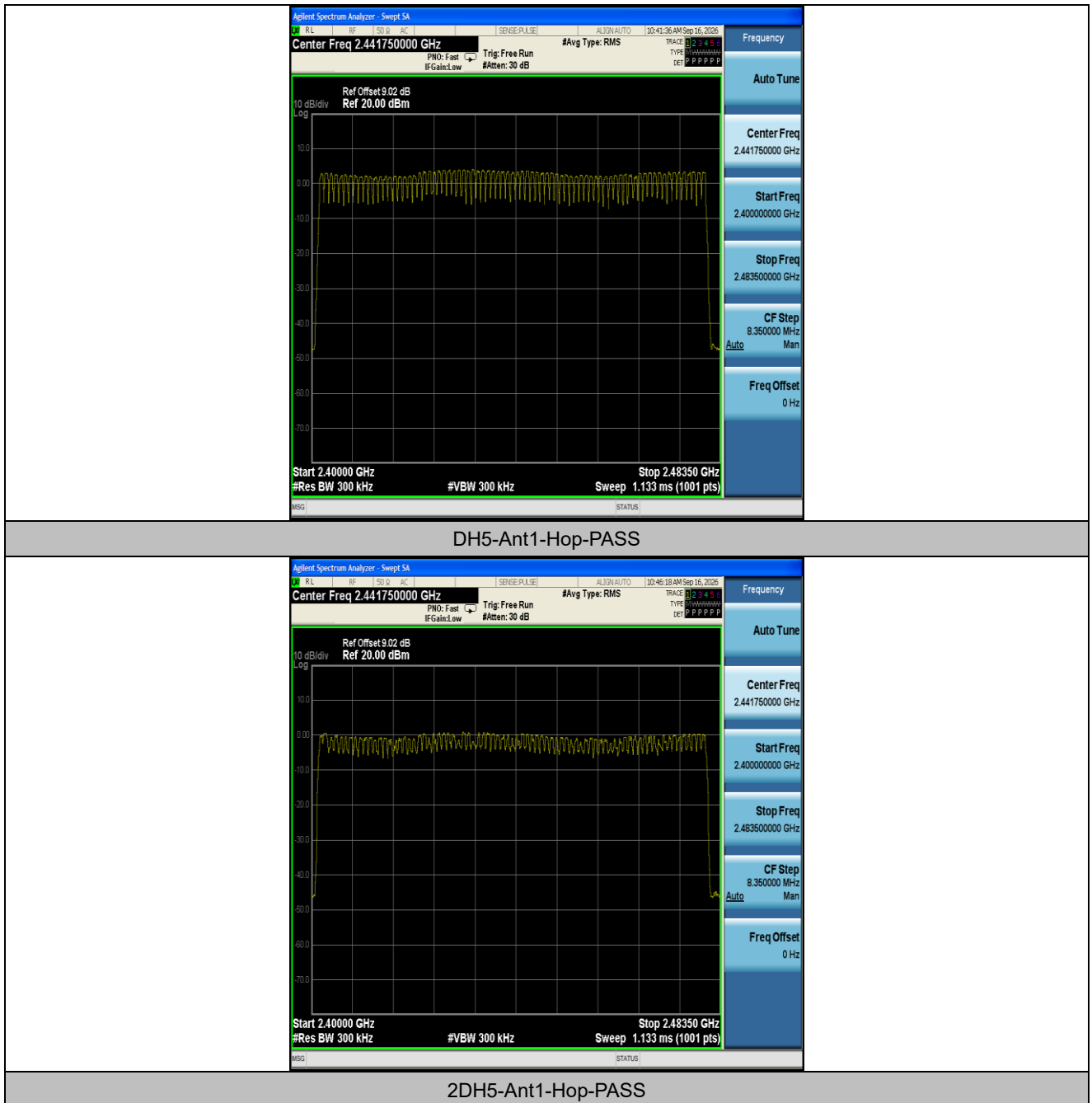
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

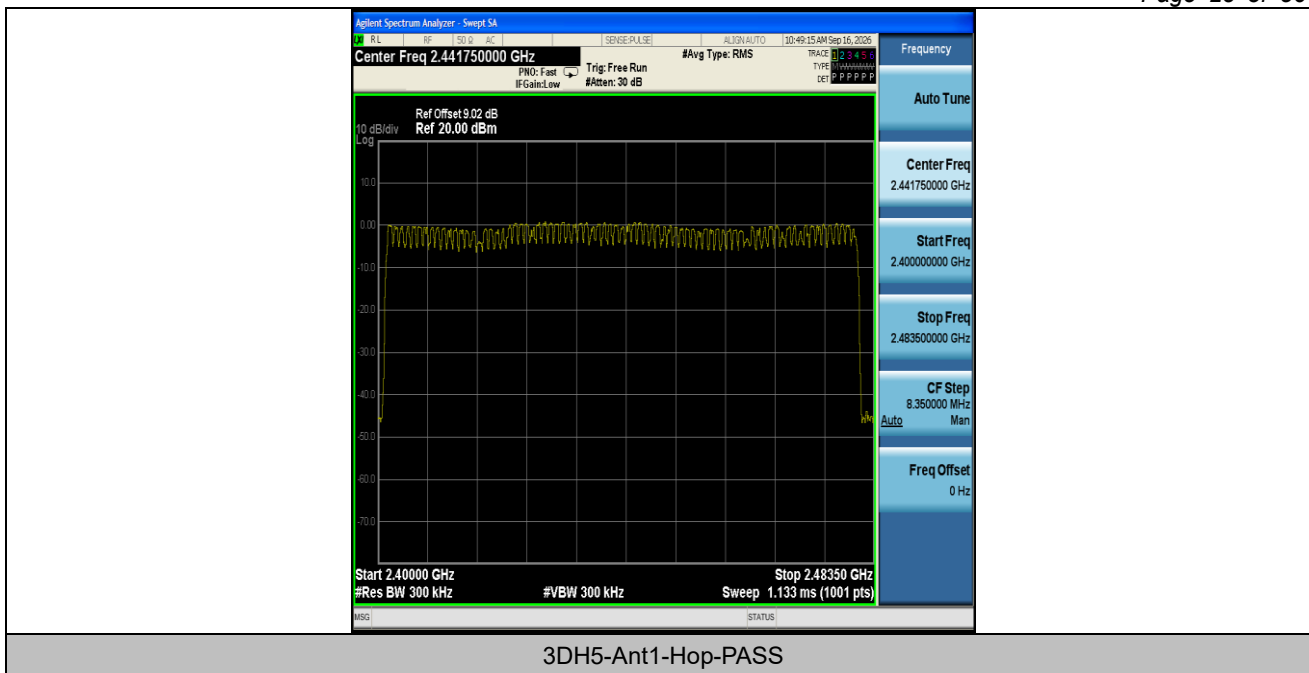
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix G: Band edge measurements

Test Result

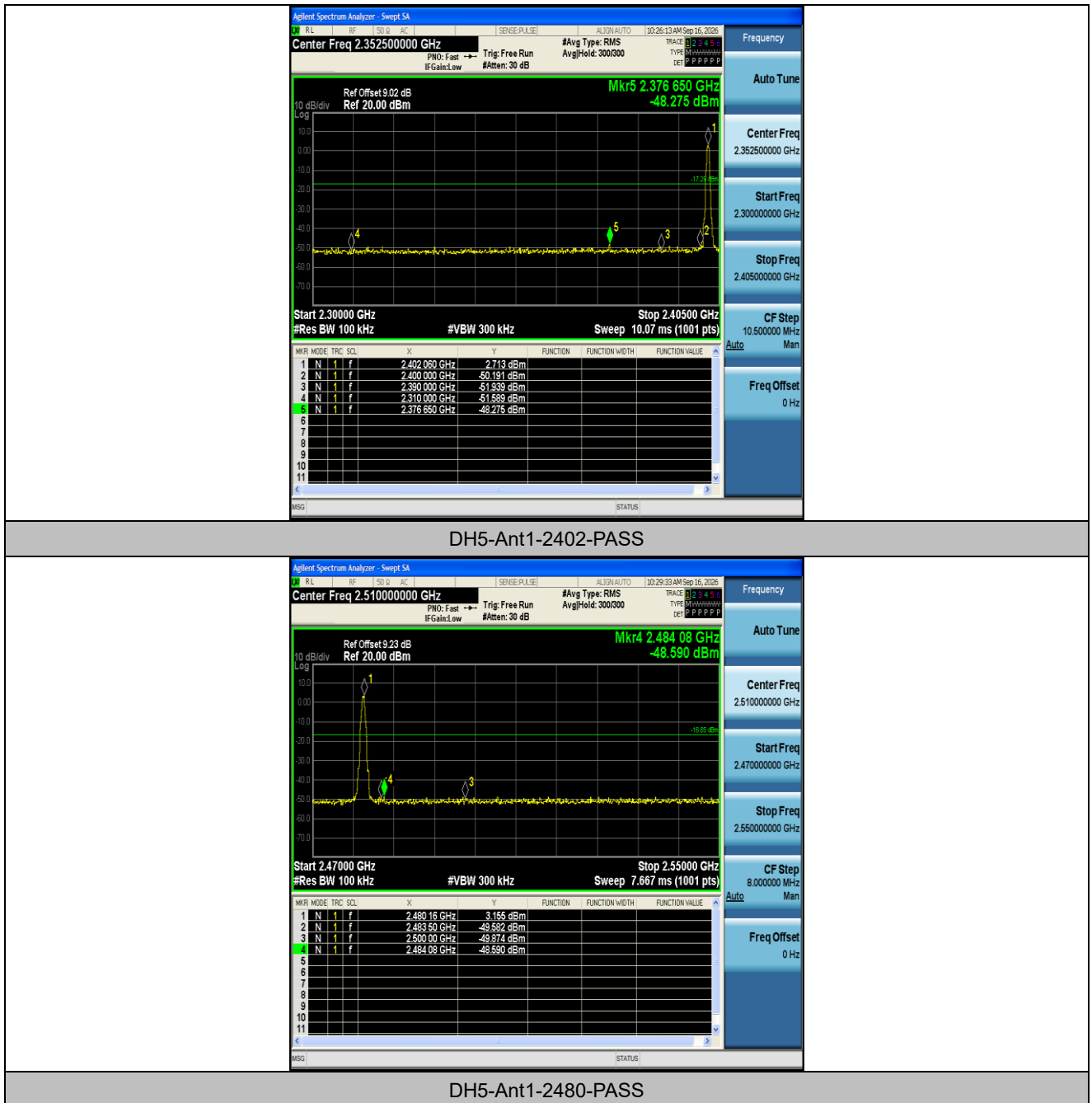
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.71	-48.28	≤-17.29	PASS
DH5	Ant1	High	2480	3.16	-48.59	≤-16.85	PASS
DH5	Ant1	Low	Hop_2402	2.15	-49.4	≤-17.85	PASS
DH5	Ant1	High	Hop_2480	2.81	-47.97	≤-17.19	PASS
2DH5	Ant1	Low	2402	-0.93	-49.24	≤-20.93	PASS
2DH5	Ant1	High	2480	-0.09	-48.52	≤-20.09	PASS
2DH5	Ant1	Low	Hop_2402	-4.99	-48.72	≤-24.99	PASS
2DH5	Ant1	High	Hop_2480	-0.07	-48.15	≤-20.07	PASS
3DH5	Ant1	Low	2402	-0.29	-48.59	≤-20.29	PASS
3DH5	Ant1	High	2480	0.08	-47.07	≤-19.93	PASS
3DH5	Ant1	Low	Hop_2402	-2.90	-48.55	≤-22.9	PASS
3DH5	Ant1	High	Hop_2480	-0.76	-48.16	≤-20.76	PASS

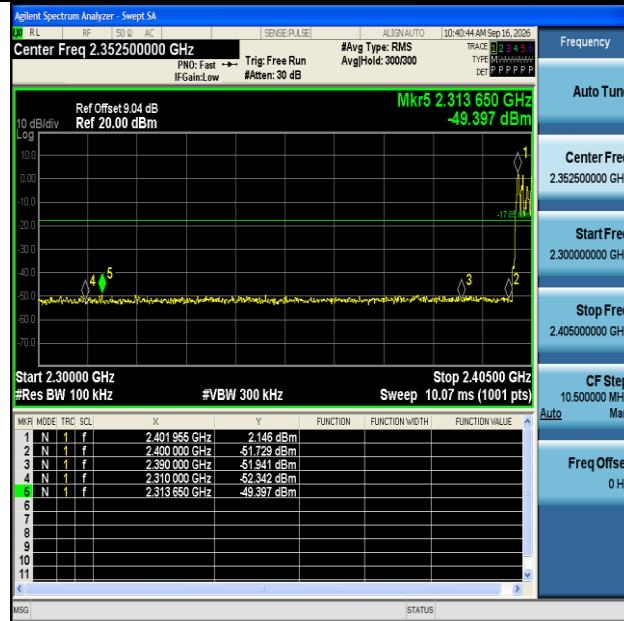
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



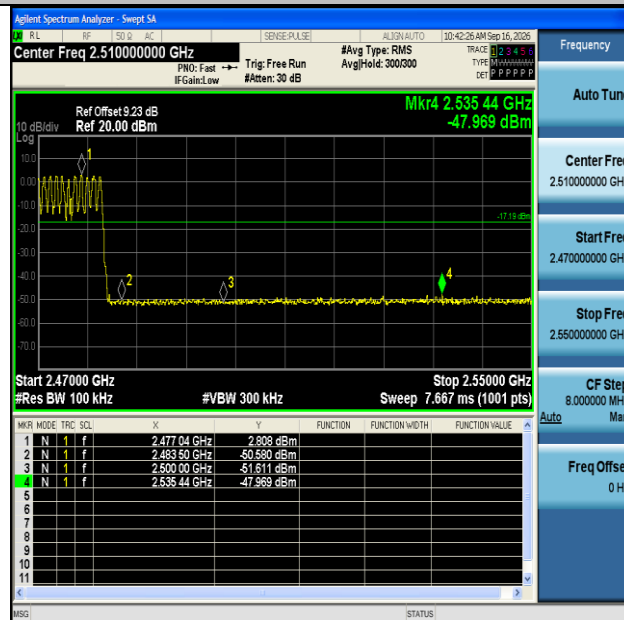


Test Graphs



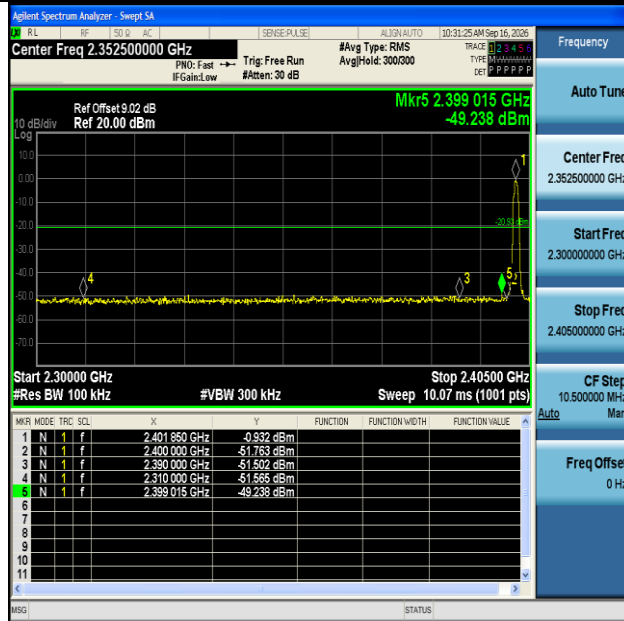


DH5-Ant1-Hop_2402-PASS

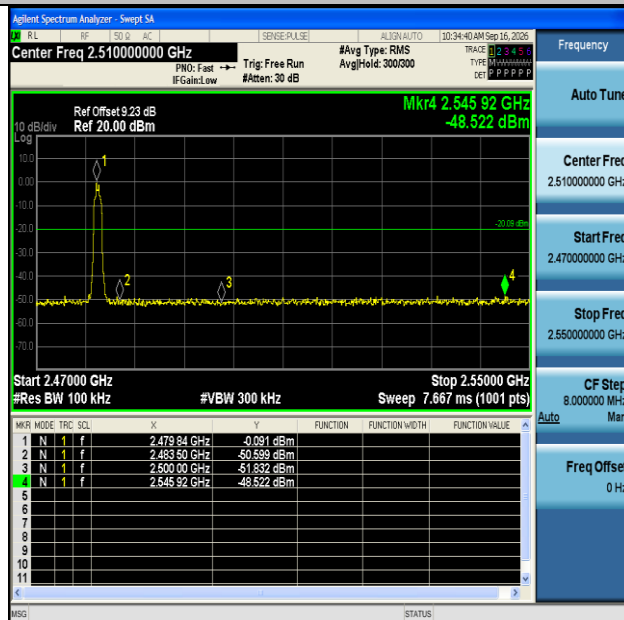


DH5-Ant1-Hop_2480-PASS



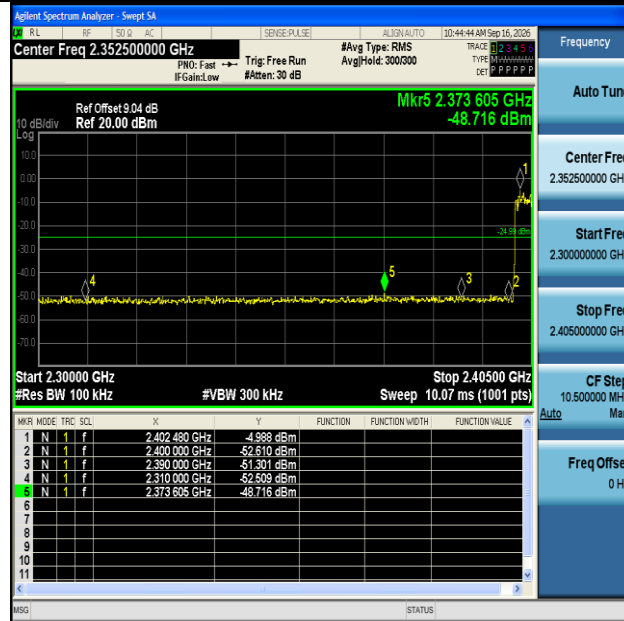


2DH5-Ant1-2402-PASS

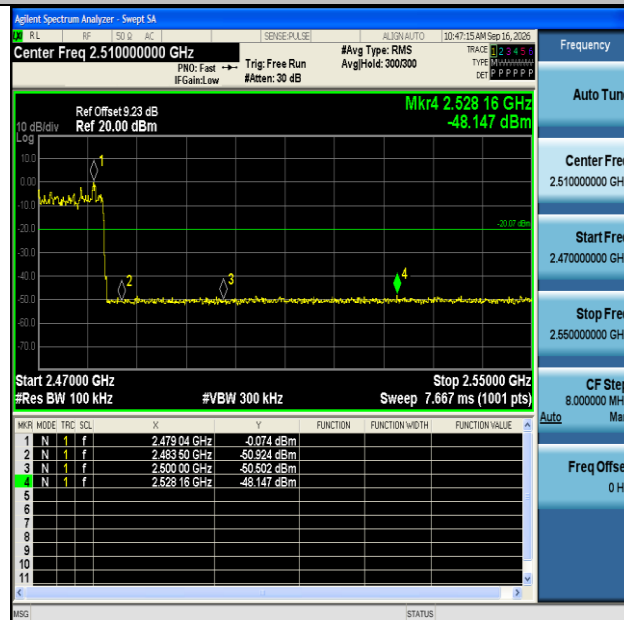


2DH5-Ant1-2480-PASS



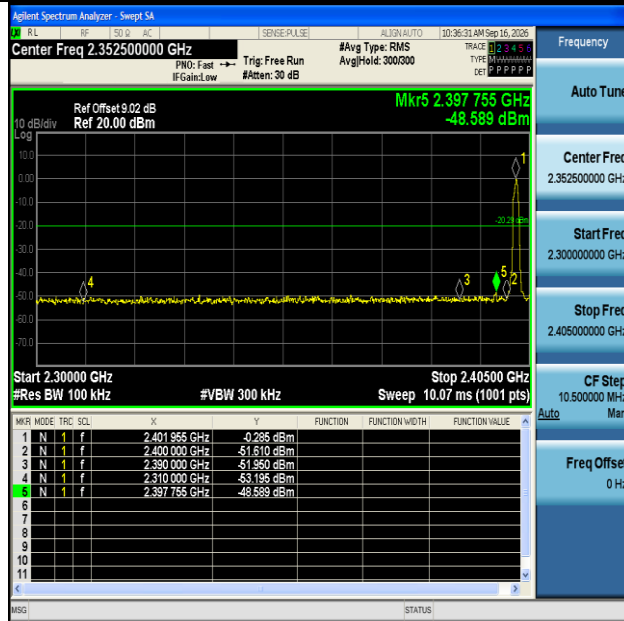


2DH5-Ant1-Hop_2402-PASS

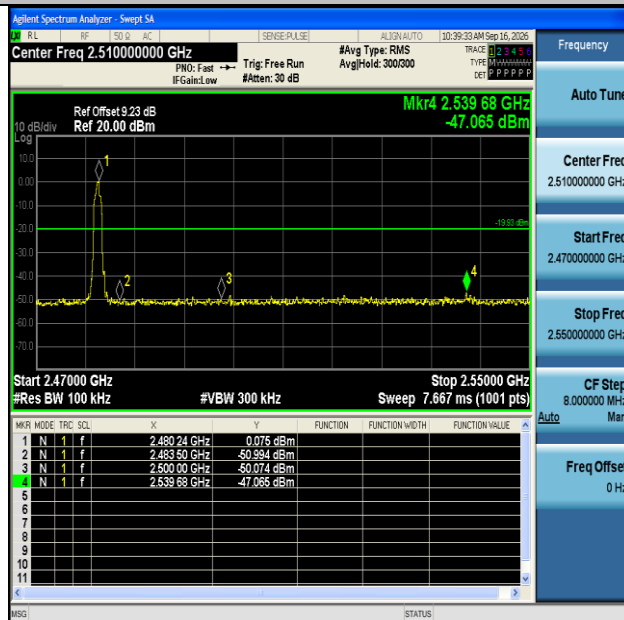


2DH5-Ant1-Hop_2480-PASS



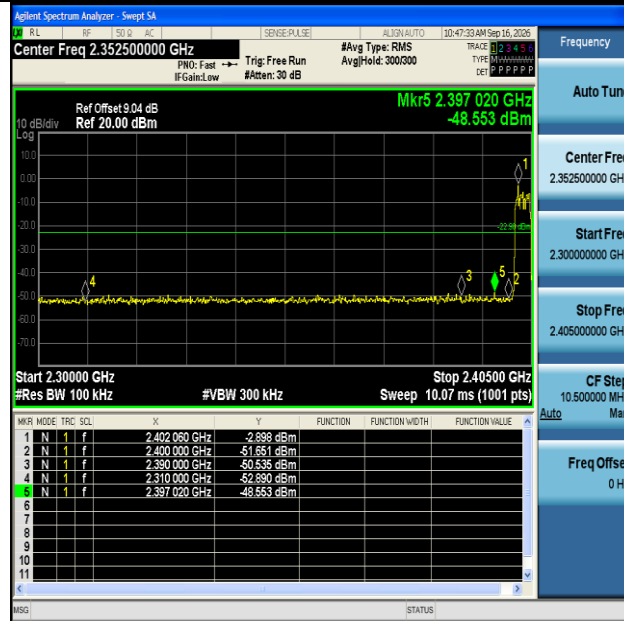


3DH5-Ant1-2402-PASS

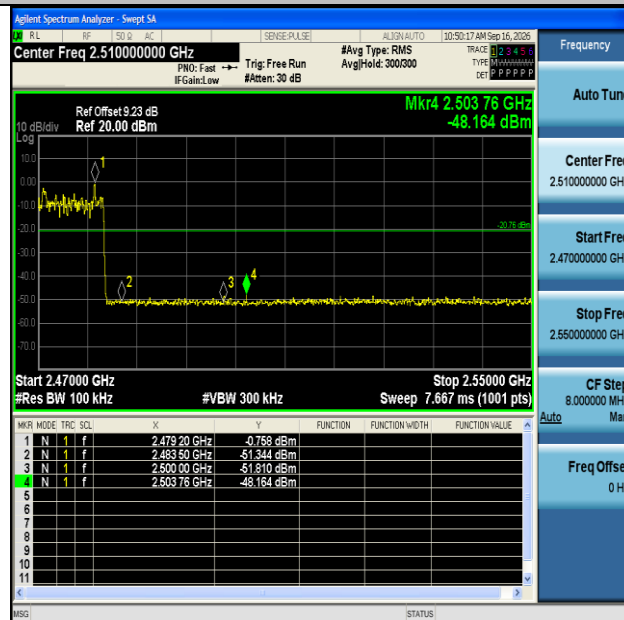


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

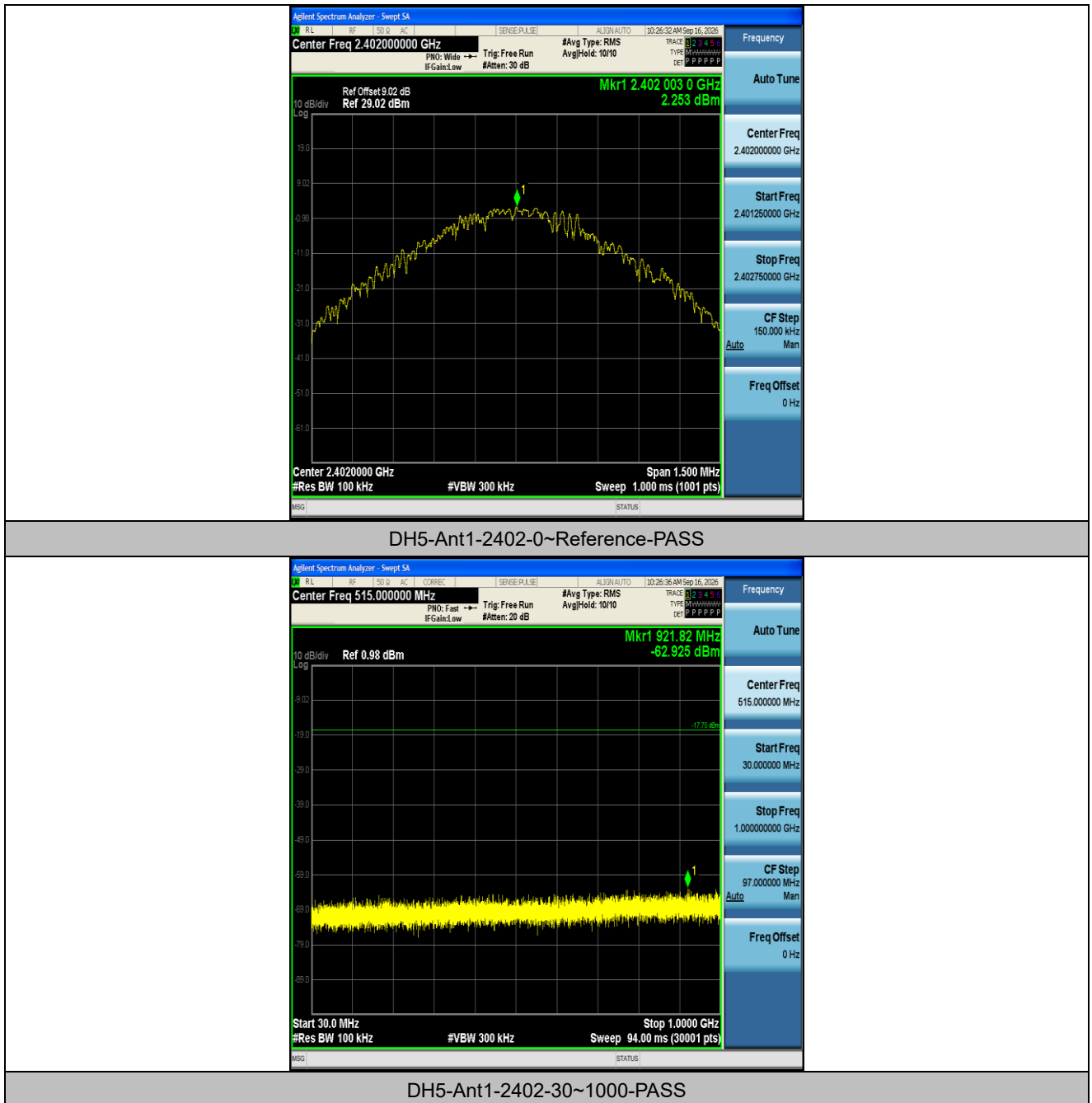
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	2.25	2.25	---	PASS
DH5	Ant1	2402	30~1000	2.25	-62.93	≤-17.75	PASS
DH5	Ant1	2402	1000~26500	2.25	-36.24	≤-17.75	PASS
DH5	Ant1	2441	0~Reference	2.56	2.56	---	PASS
DH5	Ant1	2441	30~1000	2.56	-62.99	≤-17.44	PASS
DH5	Ant1	2441	1000~26500	2.56	-37.14	≤-17.44	PASS
DH5	Ant1	2480	0~Reference	2.40	2.40	---	PASS
DH5	Ant1	2480	30~1000	2.40	-62.64	≤-17.6	PASS
DH5	Ant1	2480	1000~26500	2.40	-37.01	≤-17.6	PASS
2DH5	Ant1	2402	0~Reference	-1.73	-1.73	---	PASS
2DH5	Ant1	2402	30~1000	-1.73	-62.48	≤-21.73	PASS
2DH5	Ant1	2402	1000~26500	-1.73	-36.96	≤-21.73	PASS
2DH5	Ant1	2441	0~Reference	-1.08	-1.08	---	PASS
2DH5	Ant1	2441	30~1000	-1.08	-62.16	≤-21.08	PASS
2DH5	Ant1	2441	1000~26500	-1.08	-36.58	≤-21.08	PASS
2DH5	Ant1	2480	0~Reference	-4.05	-4.05	---	PASS
2DH5	Ant1	2480	30~1000	-4.05	-62.58	≤-24.05	PASS
2DH5	Ant1	2480	1000~26500	-4.05	-37.38	≤-24.05	PASS
3DH5	Ant1	2402	0~Reference	-0.29	-0.29	---	PASS
3DH5	Ant1	2402	30~1000	-0.29	-62.37	≤-20.29	PASS
3DH5	Ant1	2402	1000~26500	-0.29	-37.87	≤-20.29	PASS
3DH5	Ant1	2441	0~Reference	-0.83	-0.83	---	PASS
3DH5	Ant1	2441	30~1000	-0.83	-62.05	≤-20.83	PASS
3DH5	Ant1	2441	1000~26500	-0.83	-37.64	≤-20.83	PASS
3DH5	Ant1	2480	0~Reference	-3.99	-3.99	---	PASS
3DH5	Ant1	2480	30~1000	-3.99	-62.89	≤-23.99	PASS
3DH5	Ant1	2480	1000~26500	-3.99	-37.11	≤-23.99	PASS

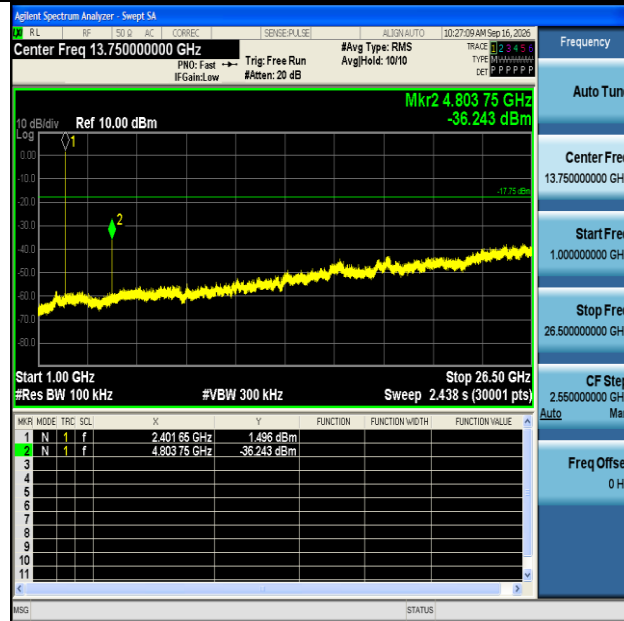
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



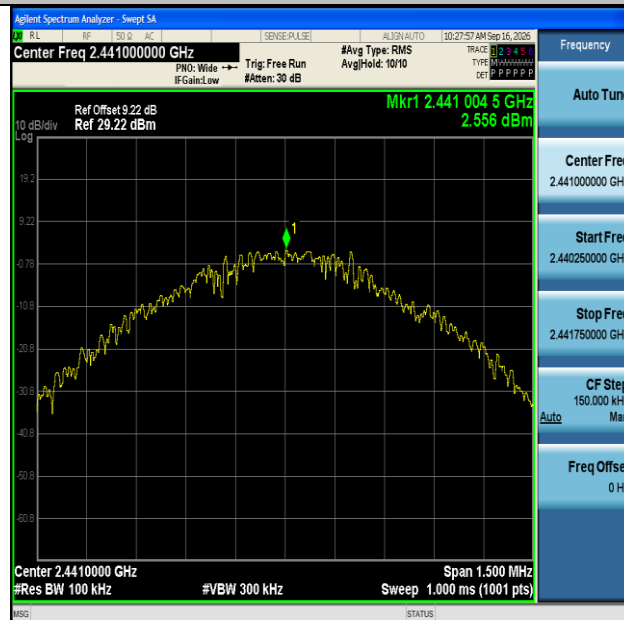


Test Graphs



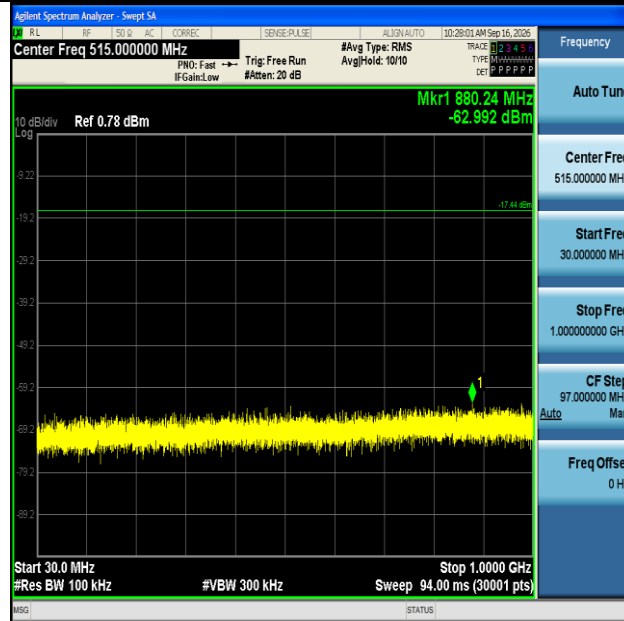


DH5-Ant1-2402-1000~26500-PASS

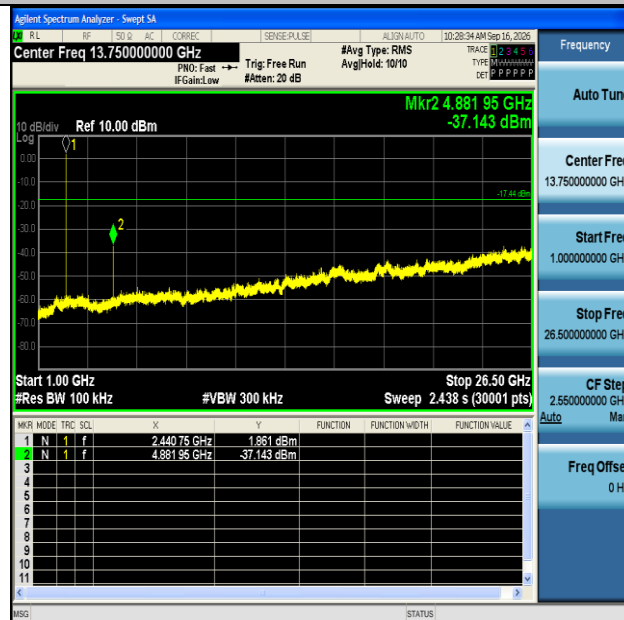


DH5-Ant1-2441-0~Reference-PASS





DH5-Ant1-2441-30~1000-PASS

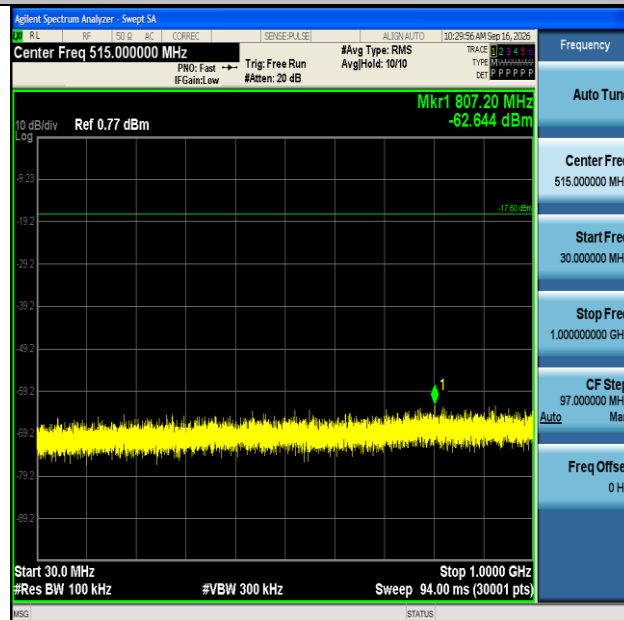


DH5-Ant1-2441-1000~26500-PASS



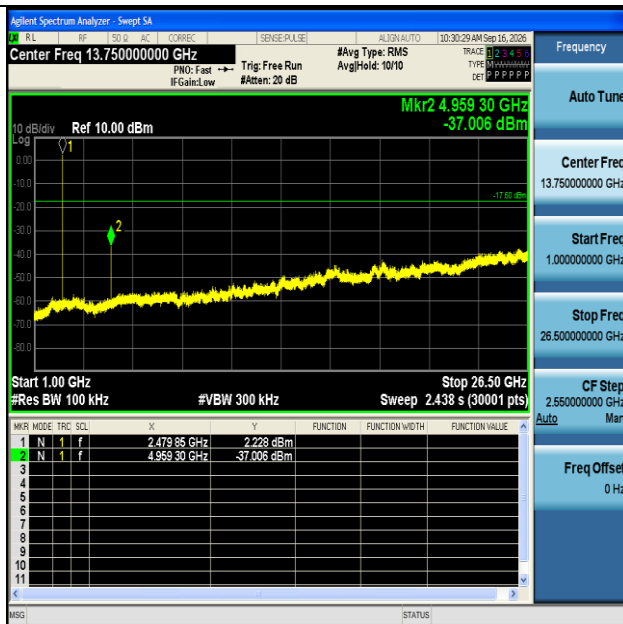


DH5-Ant1-2480-0~Reference-PASS

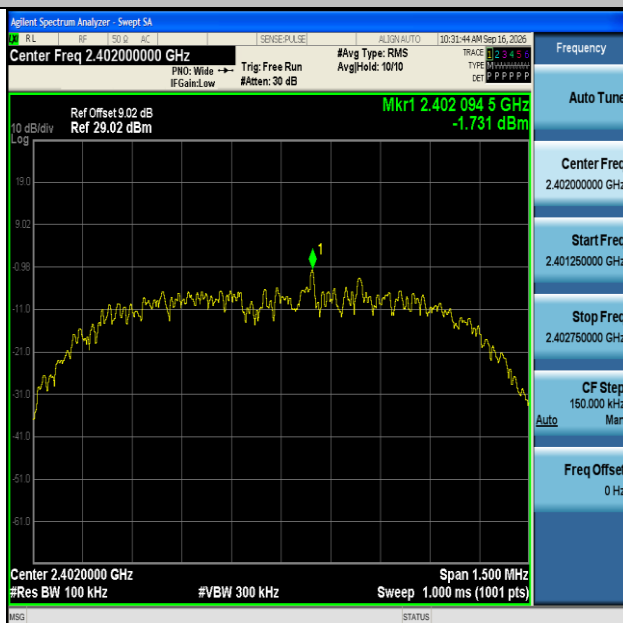


DH5-Ant1-2480-30~1000-PASS



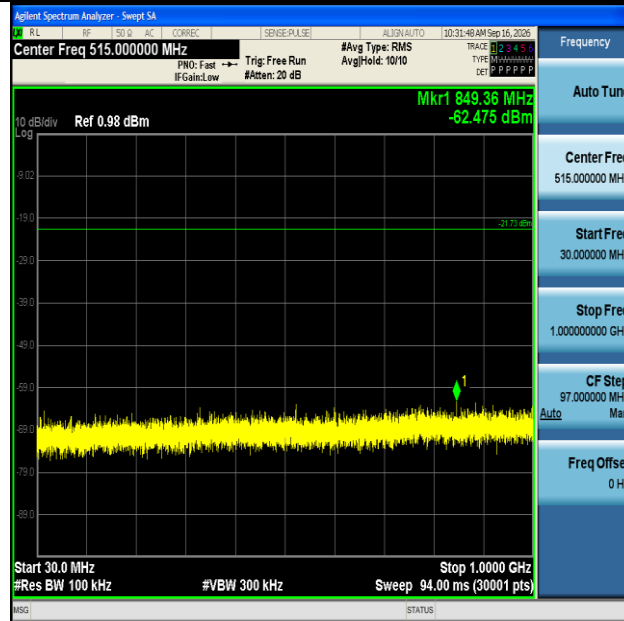


DH5-Ant1-2480-1000~26500-PASS

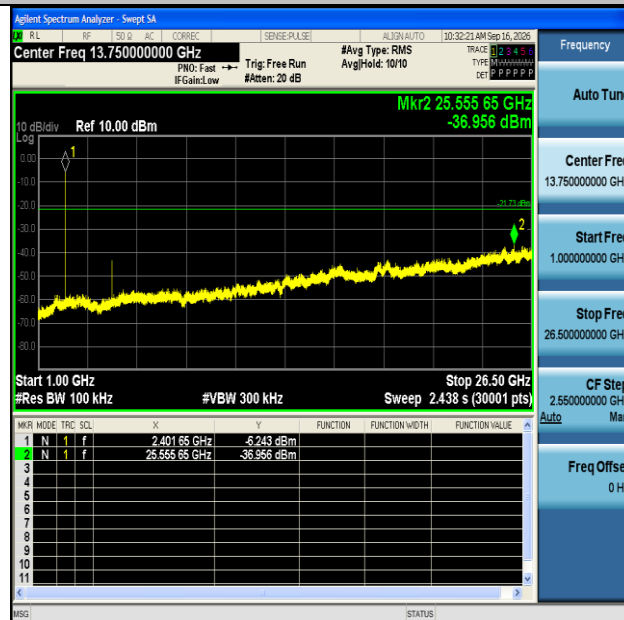


2DH5-Ant1-2402-0~Reference-PASS



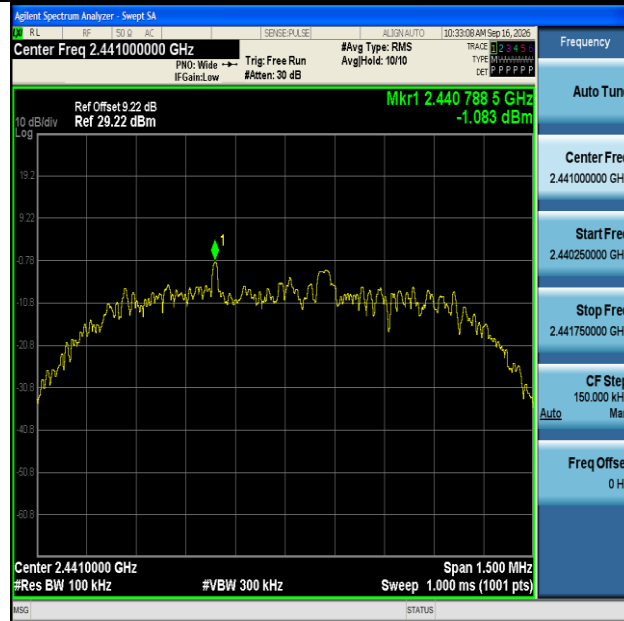


2DH5-Ant1-2402-30~1000-PASS

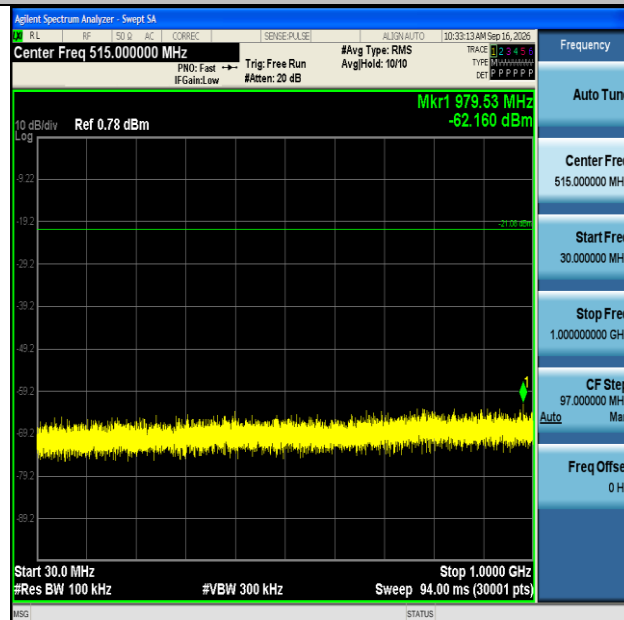


2DH5-Ant1-2402-1000~26500-PASS



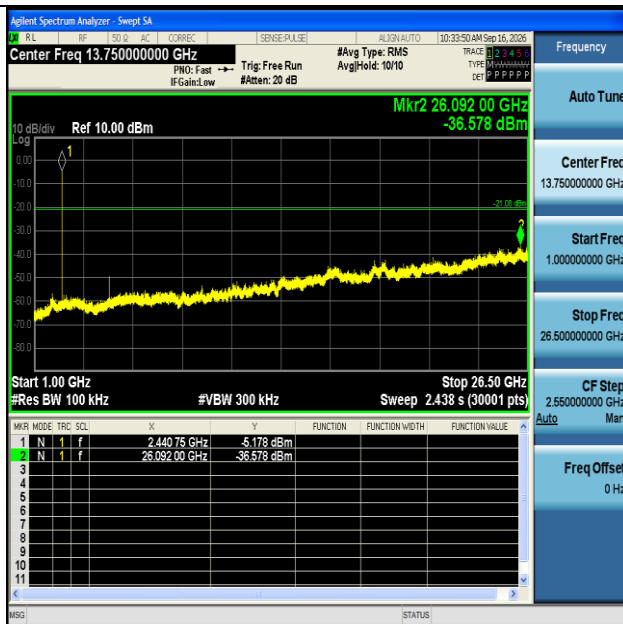


2DH5-Ant1-2441-0~Reference-PASS



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





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

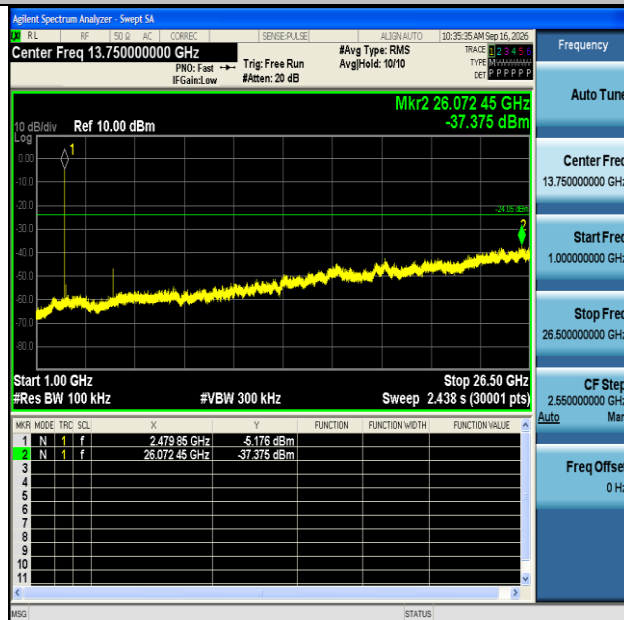


2DH5-Ant1-2480-0~Reference-PASS





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

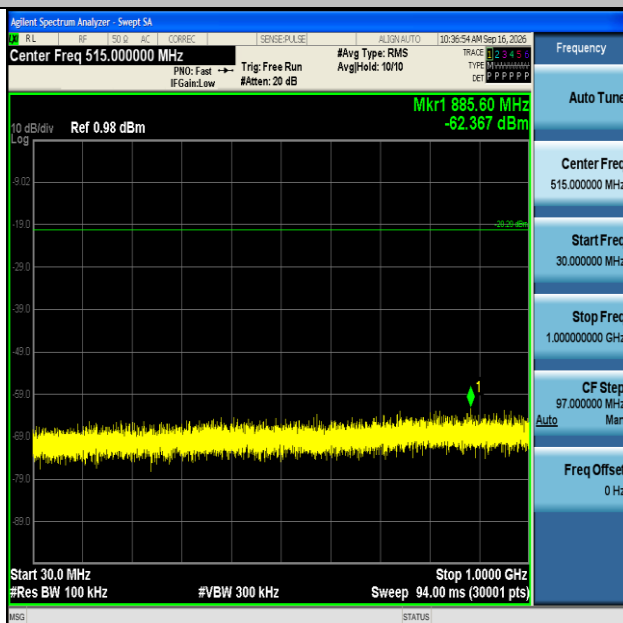


2DH5-Ant1-2480-1000~26500-PASS



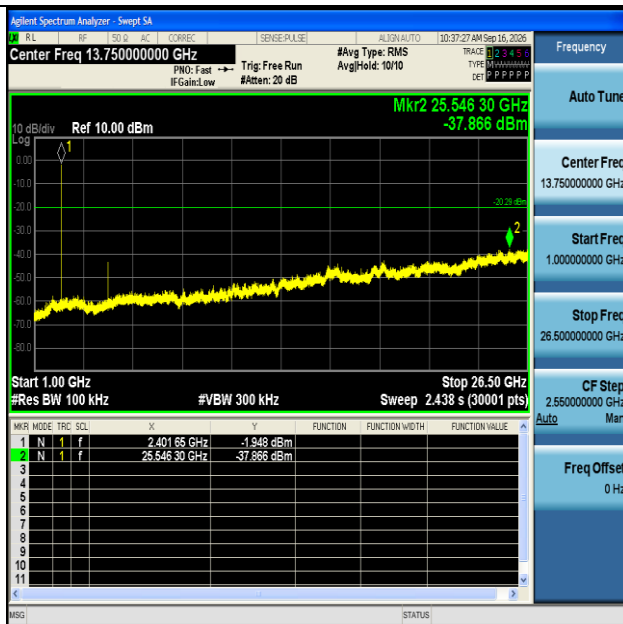


3DH5-Ant1-2402-0~Reference-PASS

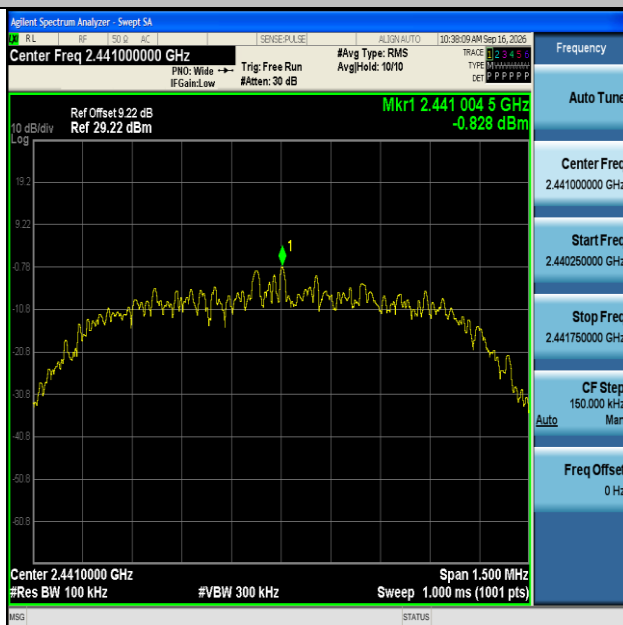


3DH5-Ant1-2402-30~1000-PASS



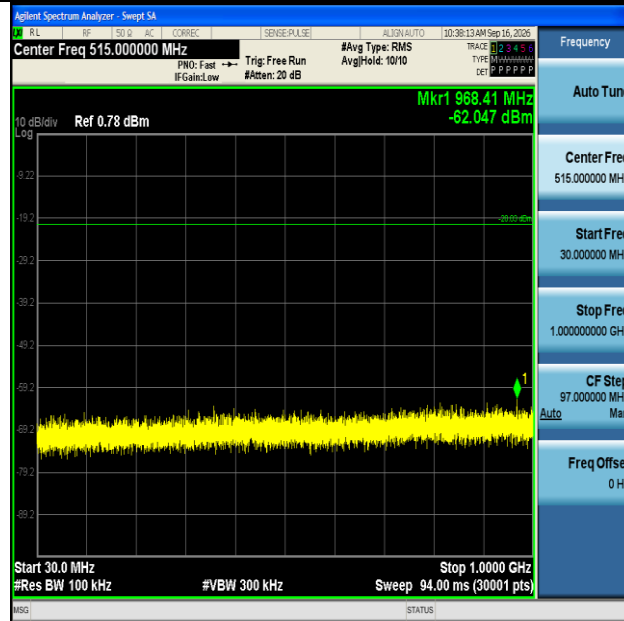


3DH5-Ant1-2402-1000~26500-PASS

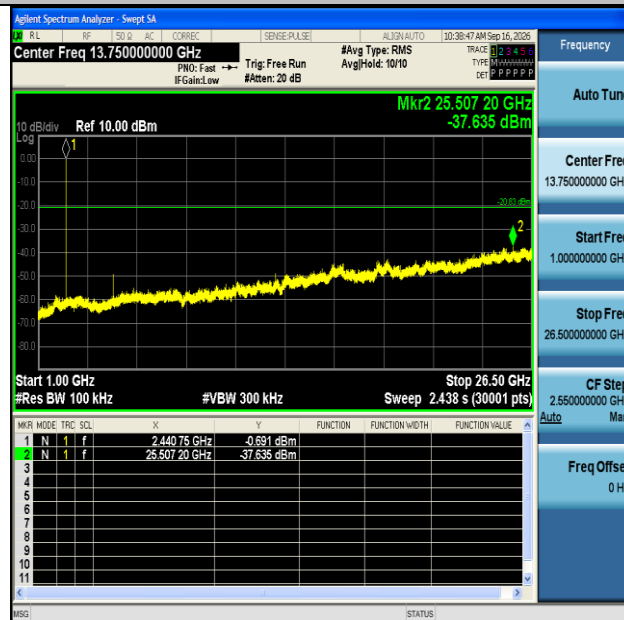


3DH5-Ant1-2441-0~Reference-PASS





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

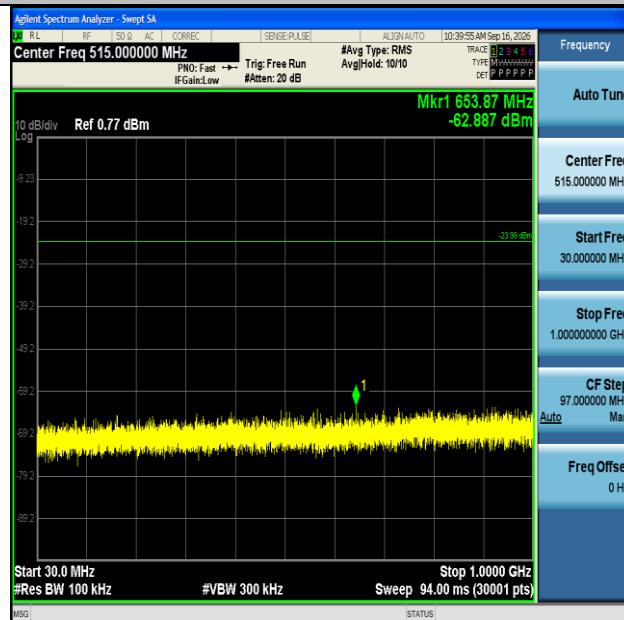


3DH5-Ant1-2441-1000~26500-PASS



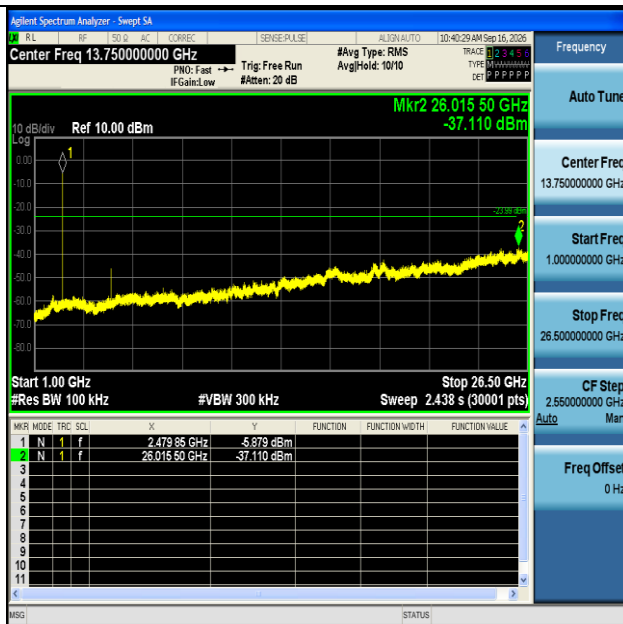


3DH5-Ant1-2480-0~Reference-PASS



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





3DH5-Ant1-2480-1000~26500-PASS





Appendix I: Duty Cycle

Test Result

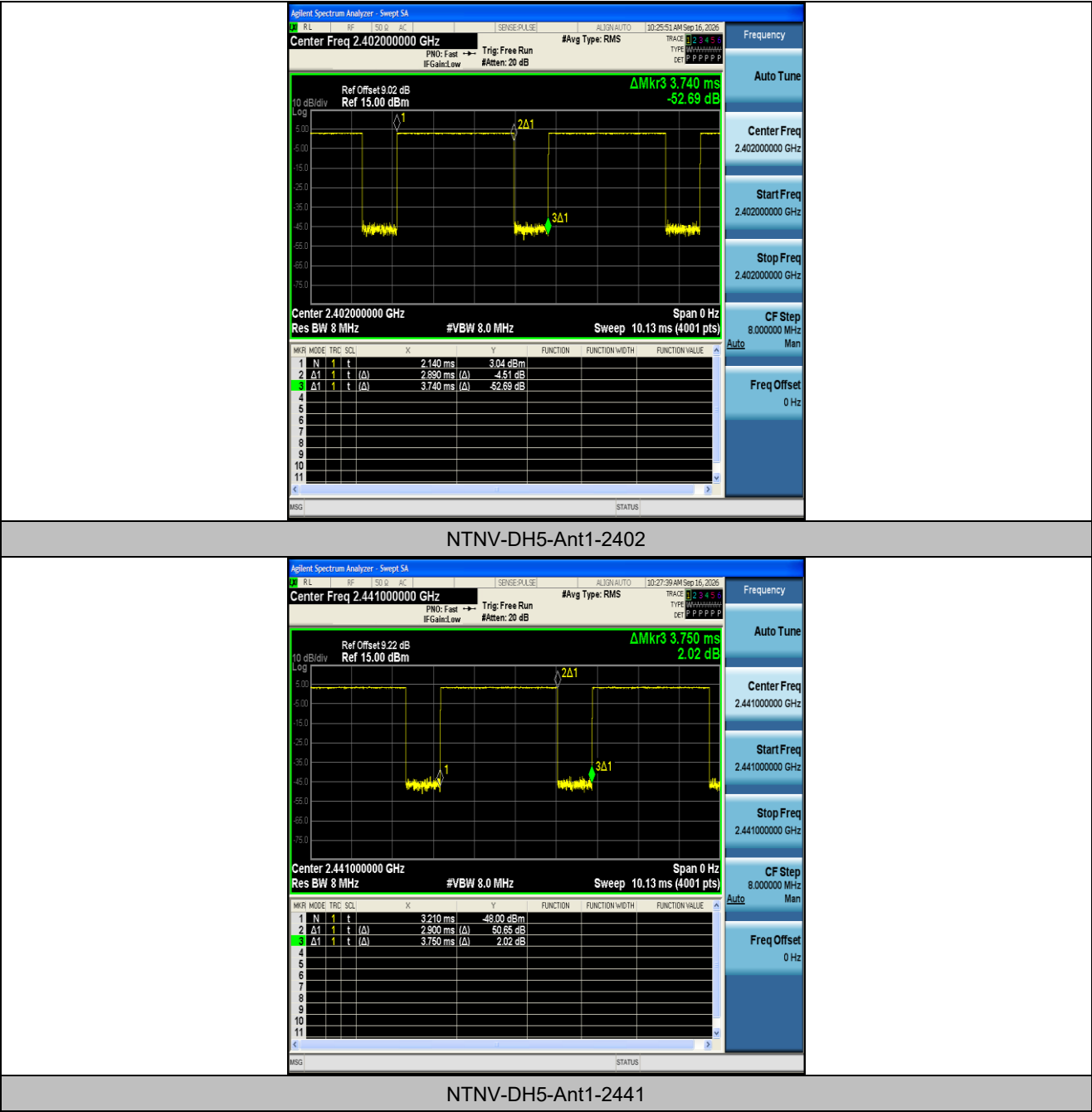
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.74	77.27	1.12
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.90	3.75	77.33	1.12
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	2.90	3.75	77.33	1.12

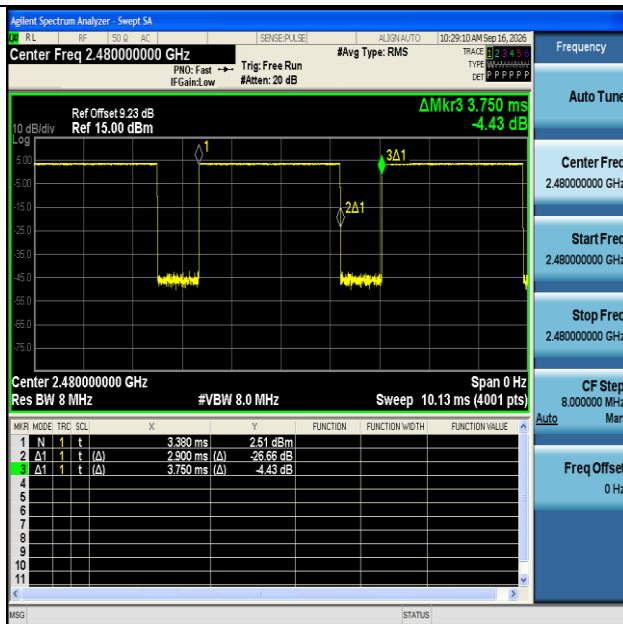
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



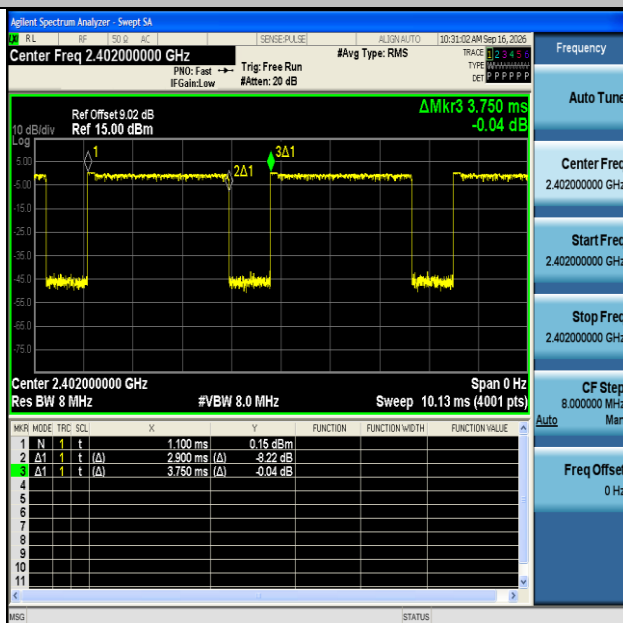


Test Graphs



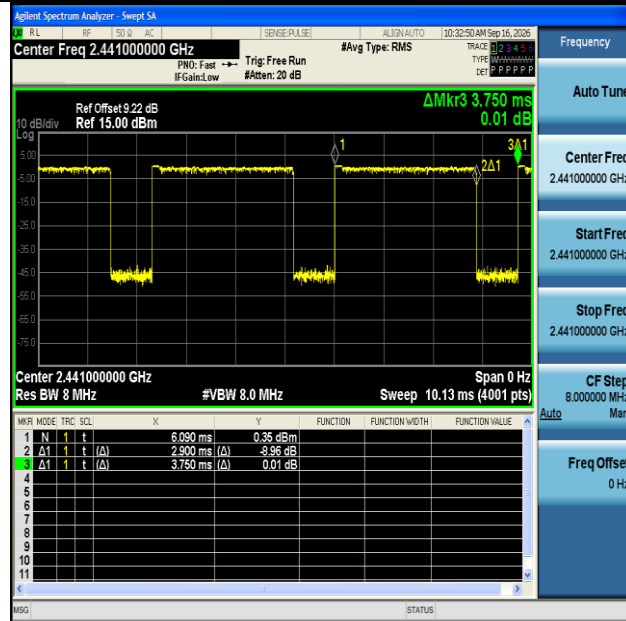


NTNV-DH5-Ant1-2480

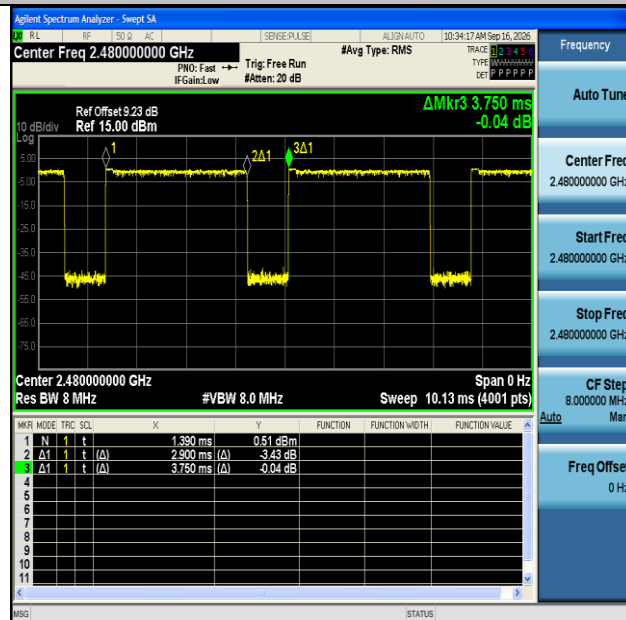


NTNV-2DH5-Ant1-2402



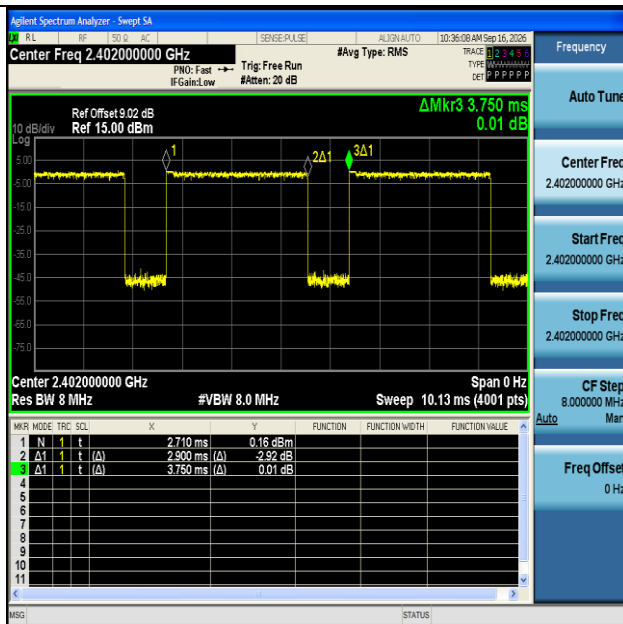


NTNV-2DH5-Ant1-2441

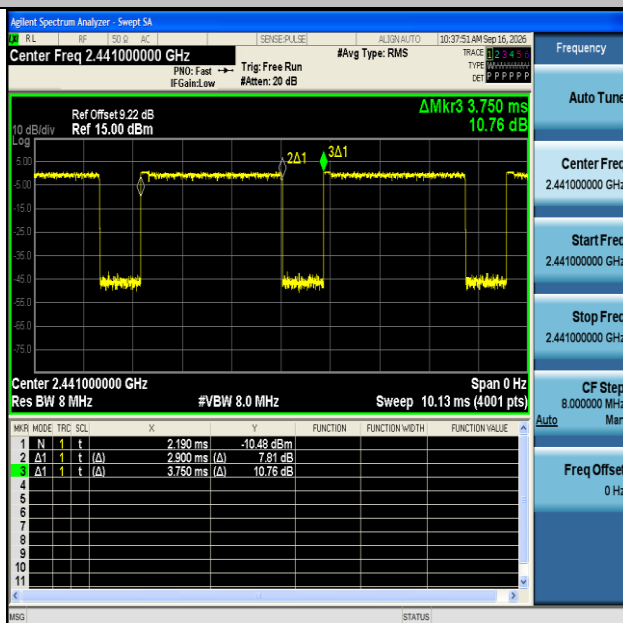


NTNV-2DH5-Ant1-2480



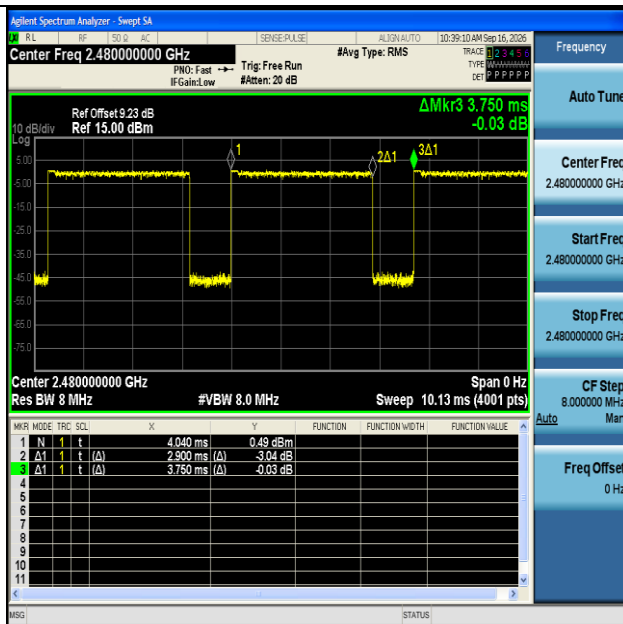


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

