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

Product Name: bird feeder camera

Trade Mark: /

Test Model: V8-WNQ-02

FCC ID: 2AY58-V8-WNQ-02

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	0.942	2401.541	2402.483	---	---
DH5	Ant1	2441	0.945	2440.538	2441.483	---	---
DH5	Ant1	2480	0.933	2479.538	2480.471	---	---
2DH5	Ant1	2402	1.323	2401.334	2402.657	---	---
2DH5	Ant1	2441	0.939	2440.544	2441.483	---	---
2DH5	Ant1	2480	1.341	2479.322	2480.663	---	---
3DH5	Ant1	2402	1.344	2401.325	2402.669	---	---
3DH5	Ant1	2441	1.335	2440.331	2441.666	---	---
3DH5	Ant1	2480	1.314	2479.340	2480.654	---	---

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

Test Graphs

DH5-Ant1-2402

DH5-Ant1-2441

DH5-Ant1-2480

2DH5-Ant1-2402

2DH5-Ant1-2441

2DH5-Ant1-2480

3DH5-Ant1-2402

3DH5-Ant1-2441

3DH5-Ant1-2480

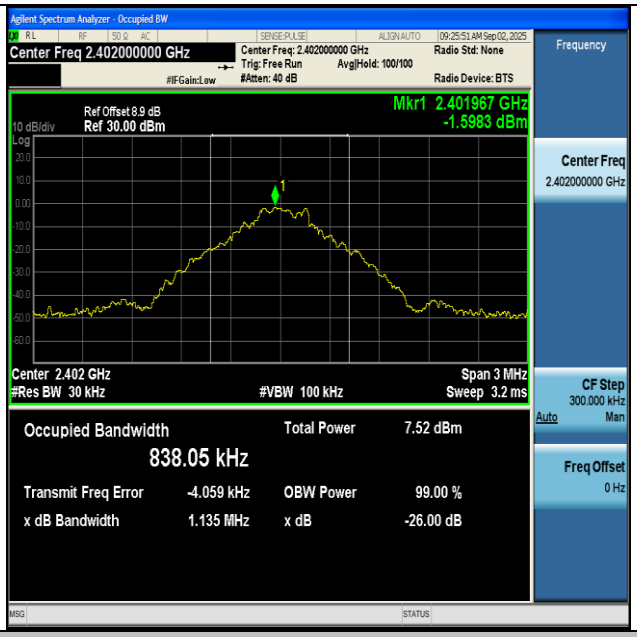
Appendix B: Occupied Channel Bandwidth

Test Result

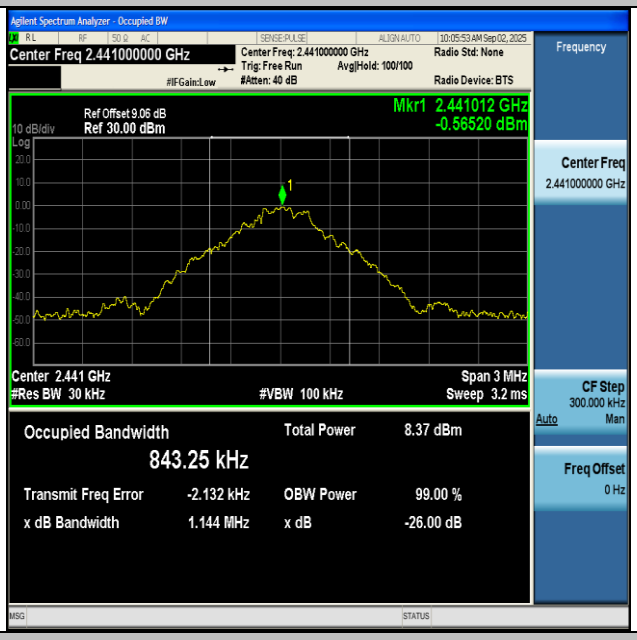
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.83805	2401.5769	2402.4150	---	---
DH5	Ant1	2441	0.84325	2440.5762	2441.4195	---	---
DH5	Ant1	2480	0.83706	2479.5736	2480.4106	---	---
2DH5	Ant1	2402	1.1958	2401.3965	2402.5923	---	---
2DH5	Ant1	2441	0.83405	2440.5792	2441.4132	---	---
2DH5	Ant1	2480	1.2048	2479.3941	2480.5989	---	---
3DH5	Ant1	2402	1.1956	2401.3988	2402.5944	---	---
3DH5	Ant1	2441	1.1950	2440.3974	2441.5924	---	---
3DH5	Ant1	2480	1.2003	2479.3935	2480.5938	---	---

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

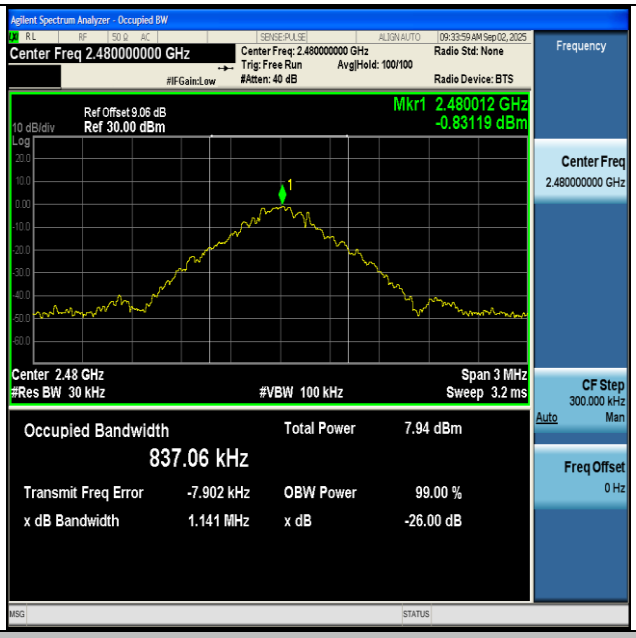
Test Graphs



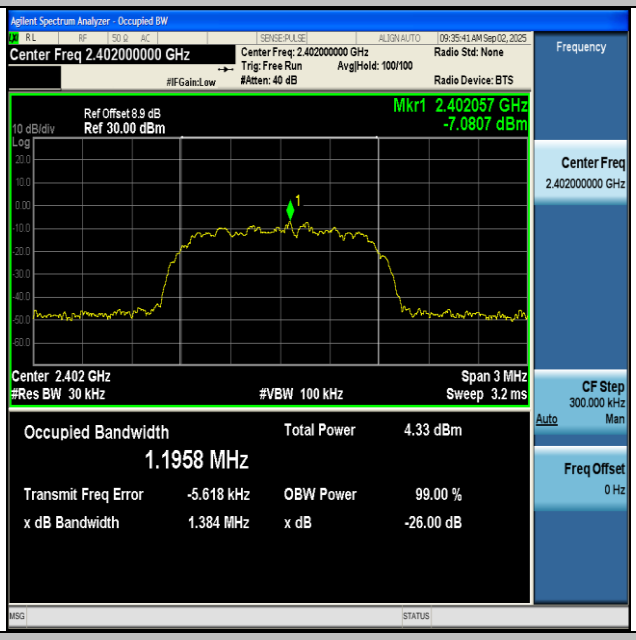
DH5-Ant1-2402



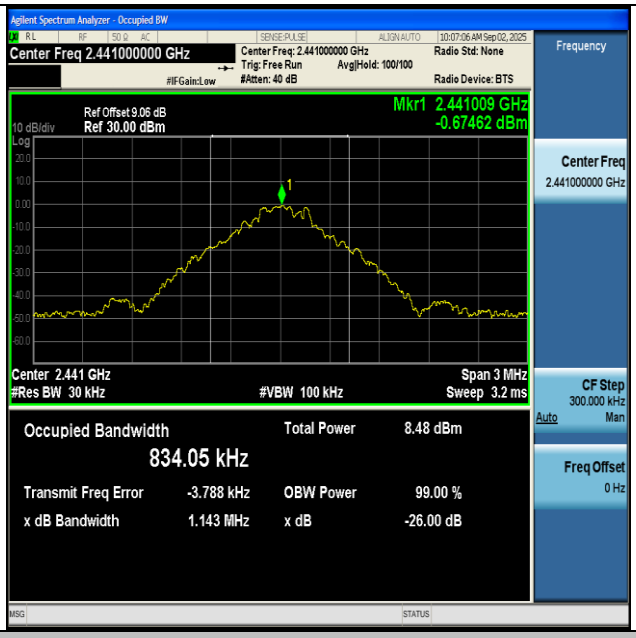
DH5-Ant1-2441



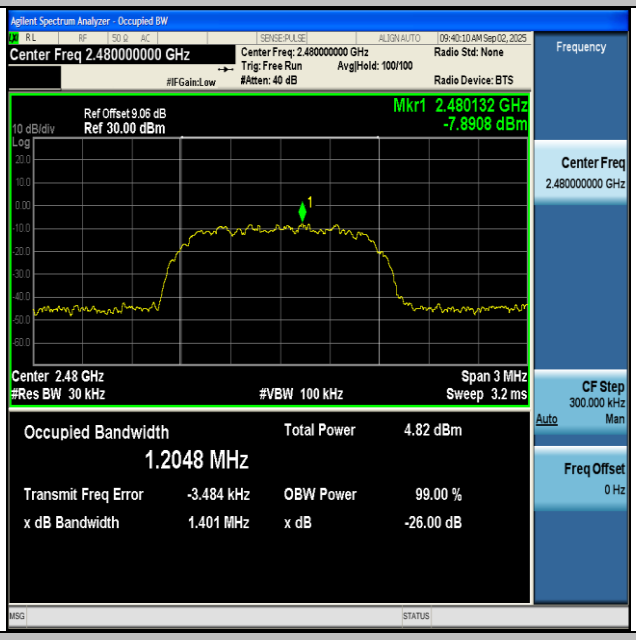
DH5-Ant1-2480



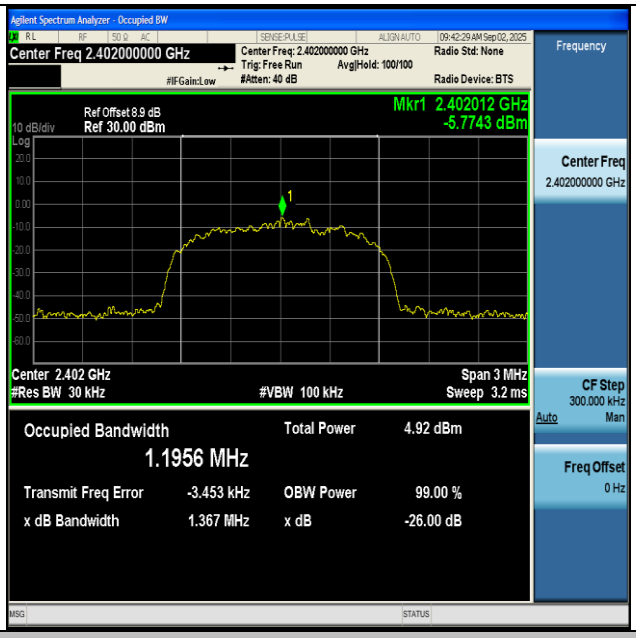
2DH5-Ant1-2402



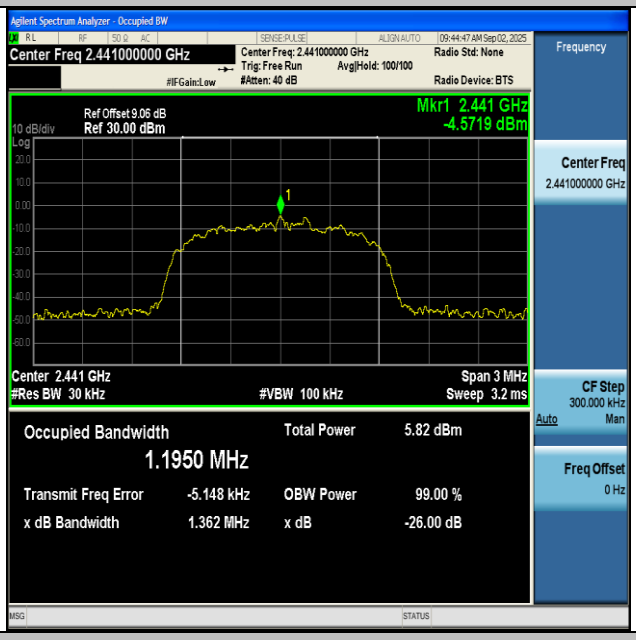
2DH5-Ant1-2441



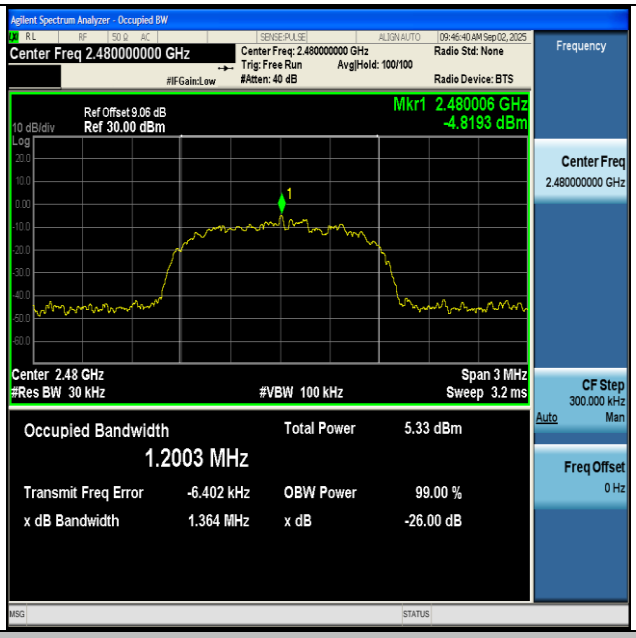
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

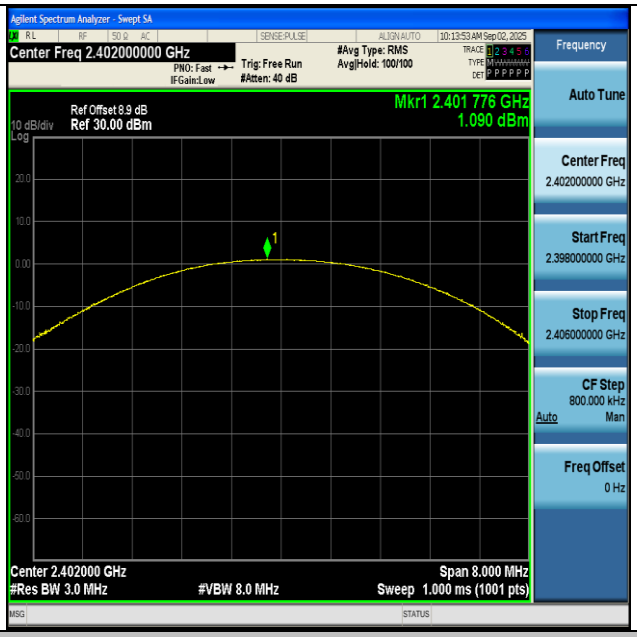
Appendix C: Maximum peak conducted output power

Test Result

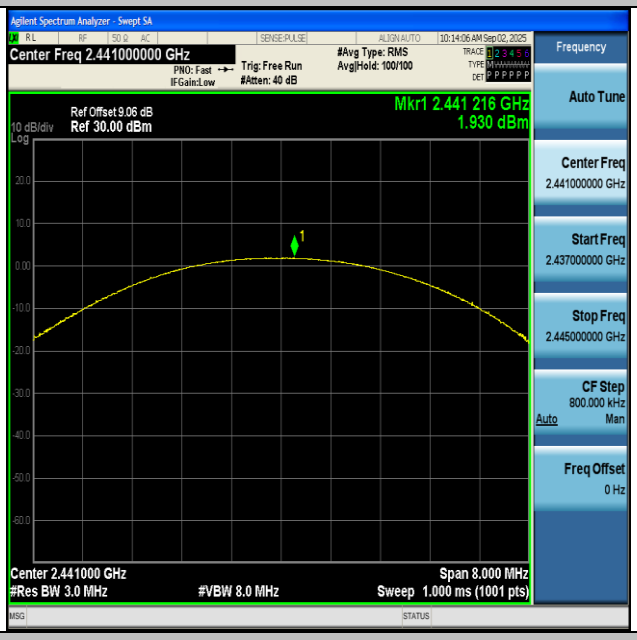
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	1.09	≤30	PASS
DH5	Ant1	2441	1.93	≤30	PASS
DH5	Ant1	2480	1.67	≤30	PASS
2DH5	Ant1	2402	0.41	≤20.97	PASS
2DH5	Ant1	2441	1.19	≤20.97	PASS
2DH5	Ant1	2480	0.93	≤20.97	PASS
3DH5	Ant1	2402	0.68	≤20.97	PASS
3DH5	Ant1	2441	1.54	≤20.97	PASS
3DH5	Ant1	2480	1.25	≤20.97	PASS

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

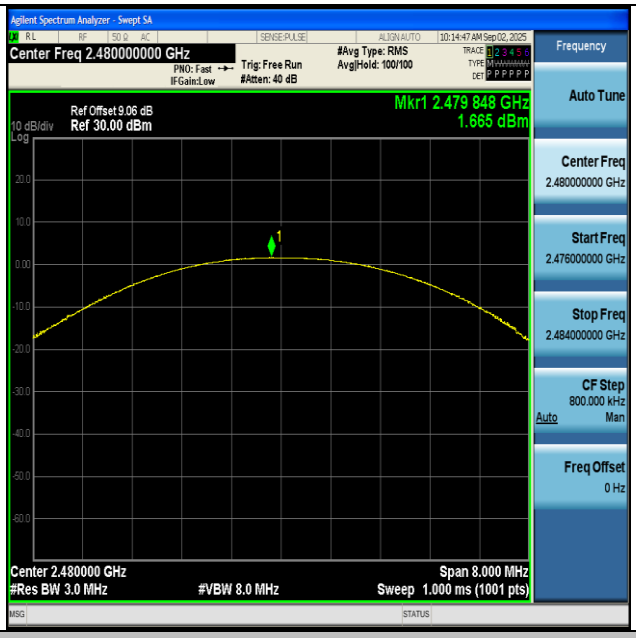
Test Graphs



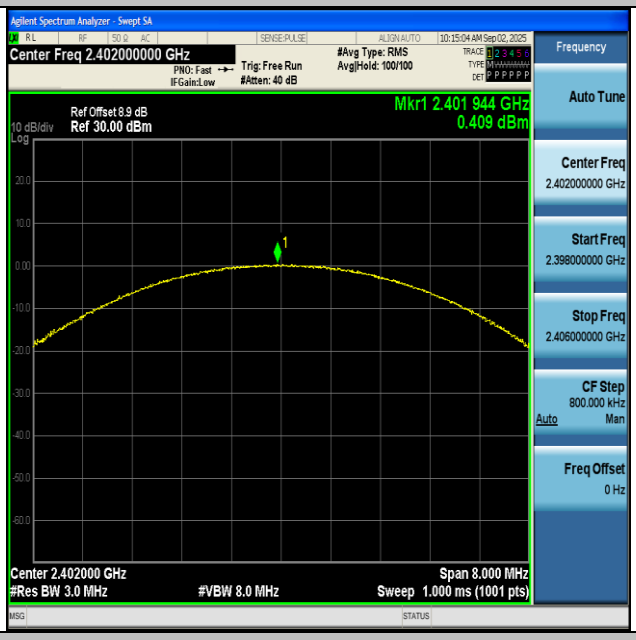
DH5-Ant1-2402-PASS



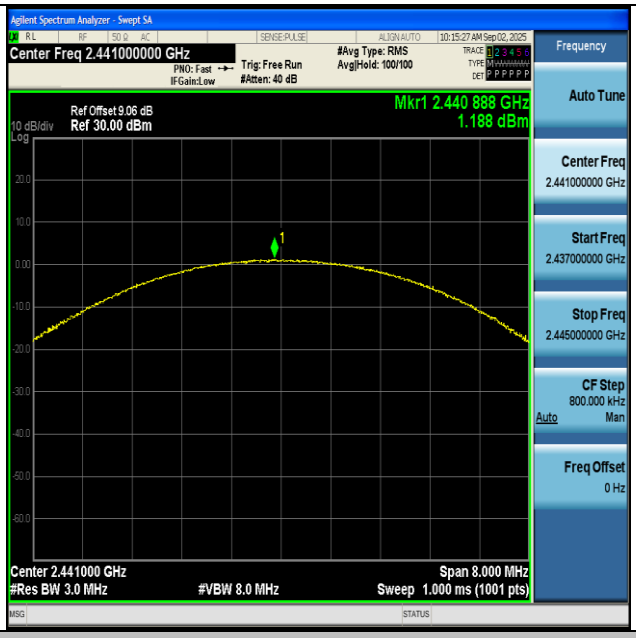
DH5-Ant1-2441-PASS



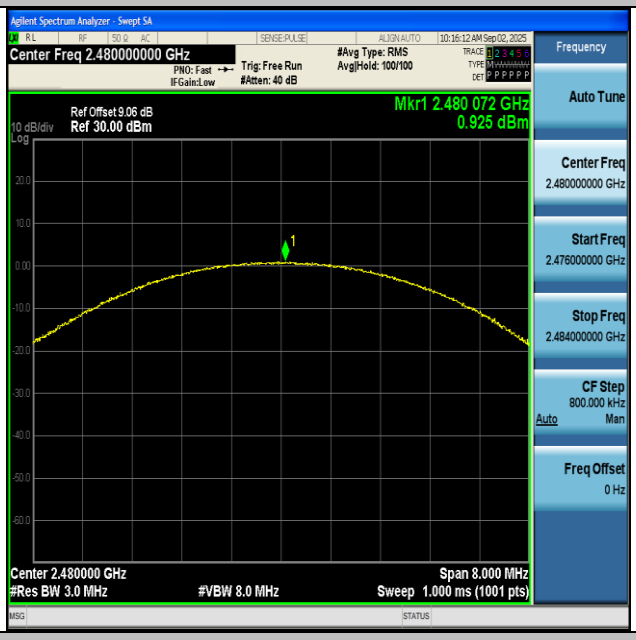
DH5-Ant1-2480-PASS



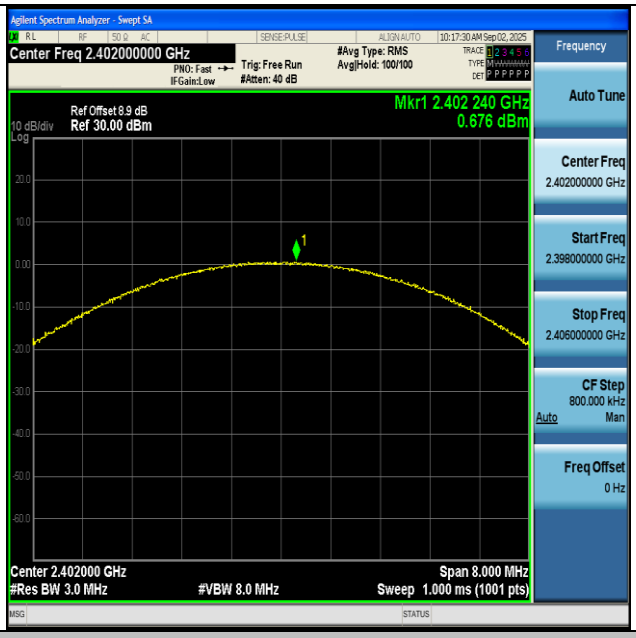
2DH5-Ant1-2402-PASS



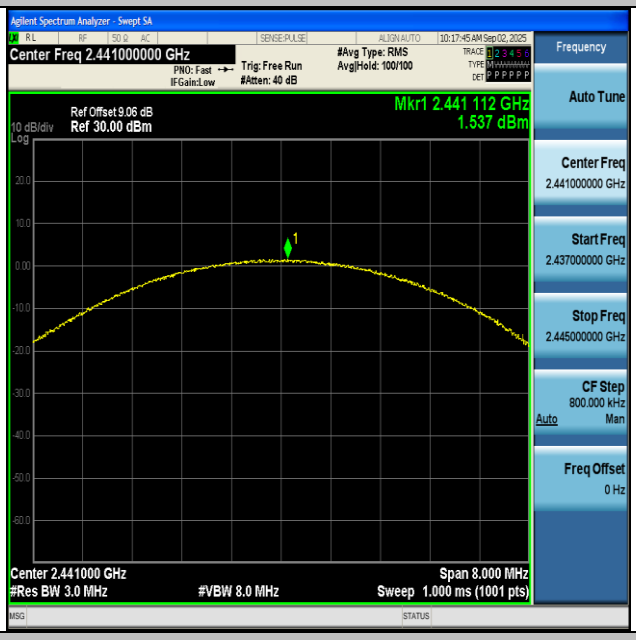
2DH5-Ant1-2441-PASS



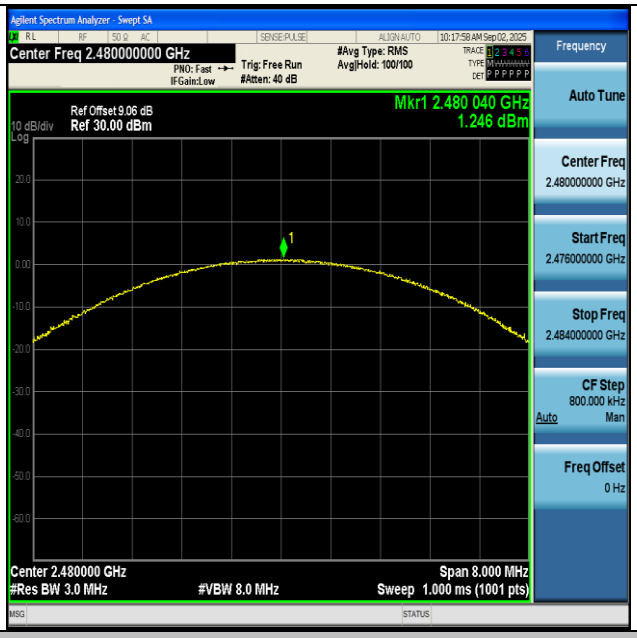
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS

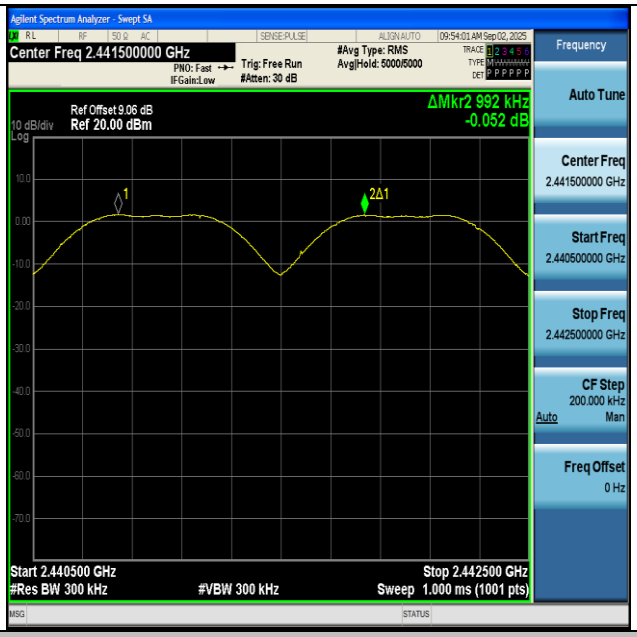
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.992	≥0.942	PASS
2DH5	Ant1	Hop	1.006	≥0.894	PASS
3DH5	Ant1	Hop	1.01	≥0.896	PASS

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

Test Graphs



DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS

3DH5-Ant1-Hop-PASS

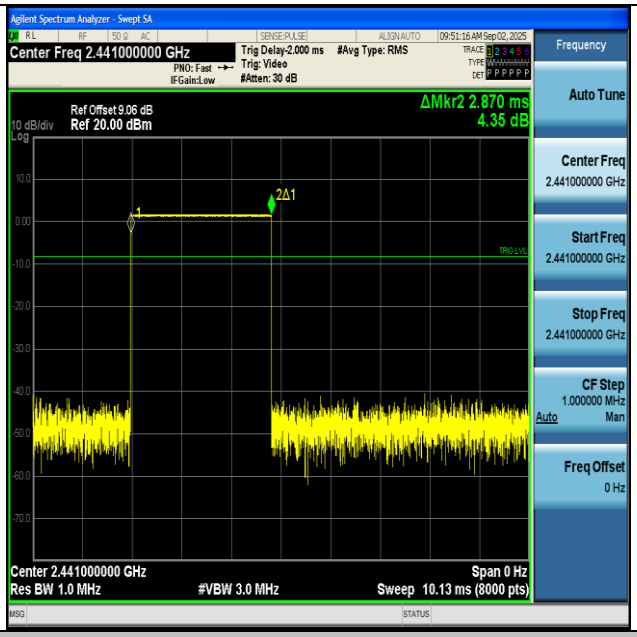
Appendix E: Time of occupancy

Test Result

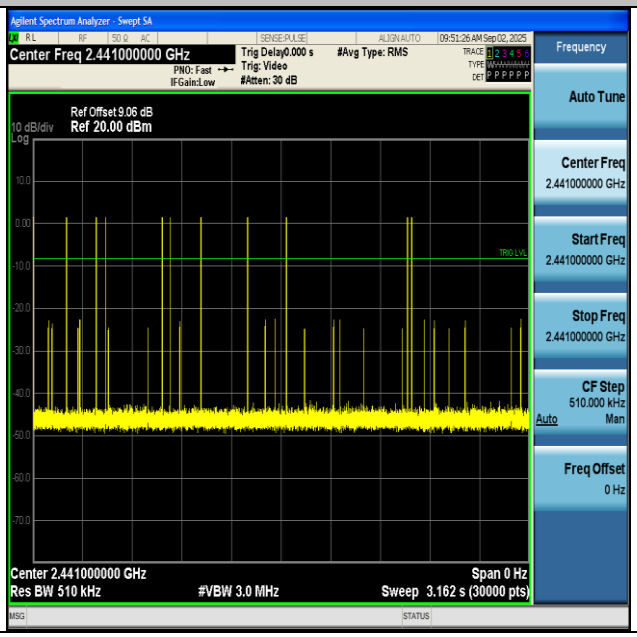
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.870	110	0.316	≤0.4	PASS
2DH5	Ant1	Hop	2.875	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.879	100	0.288	≤0.4	PASS

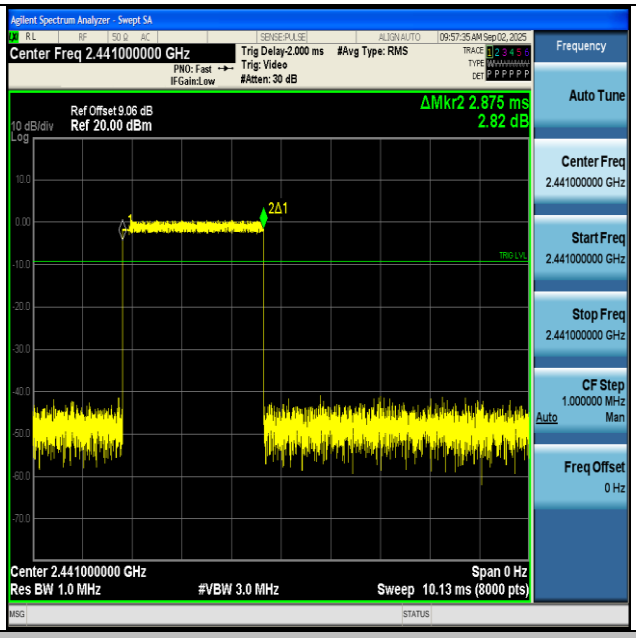
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

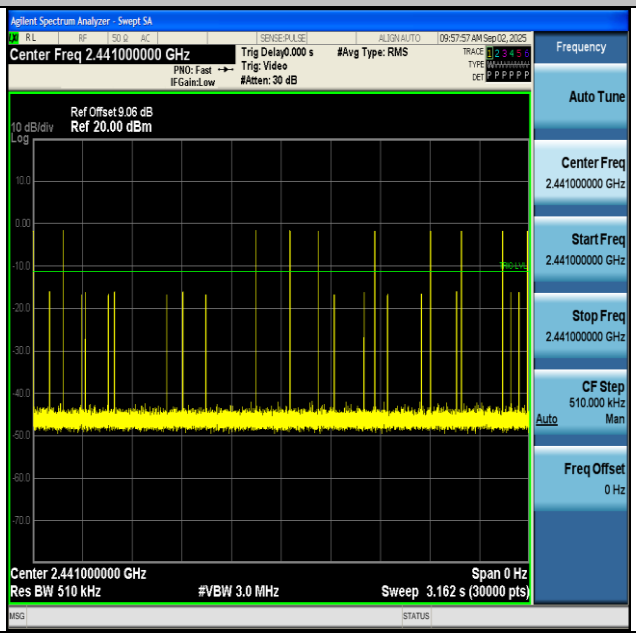


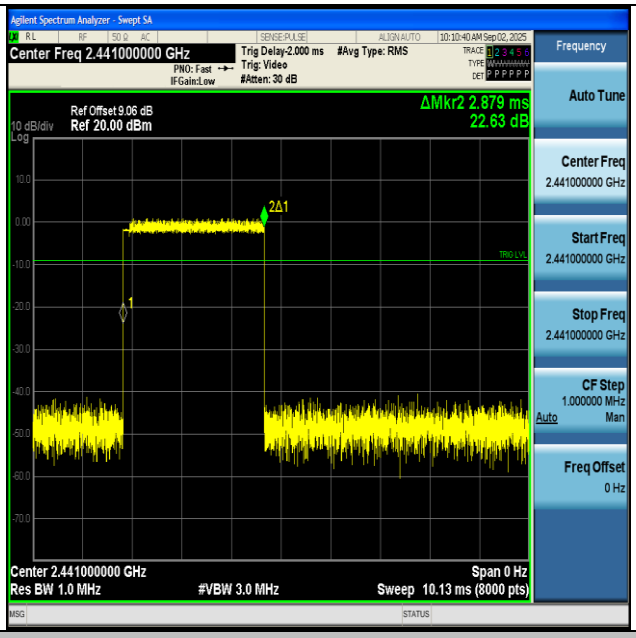
DH5-Ant1-Hop-PASS



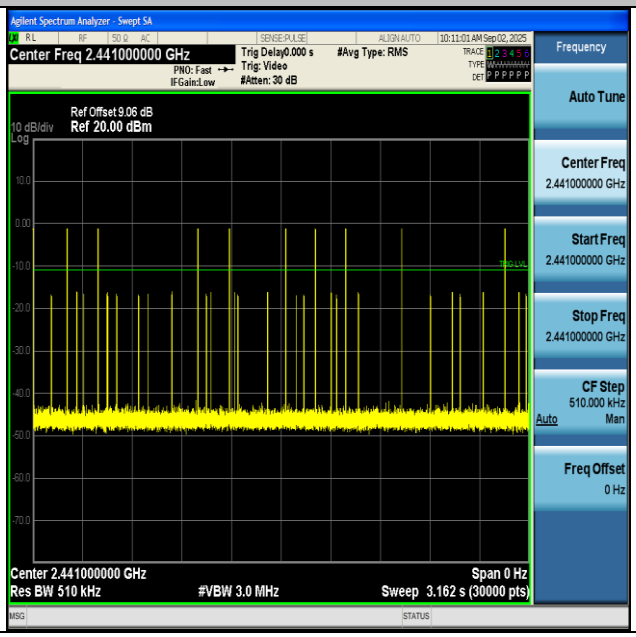


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



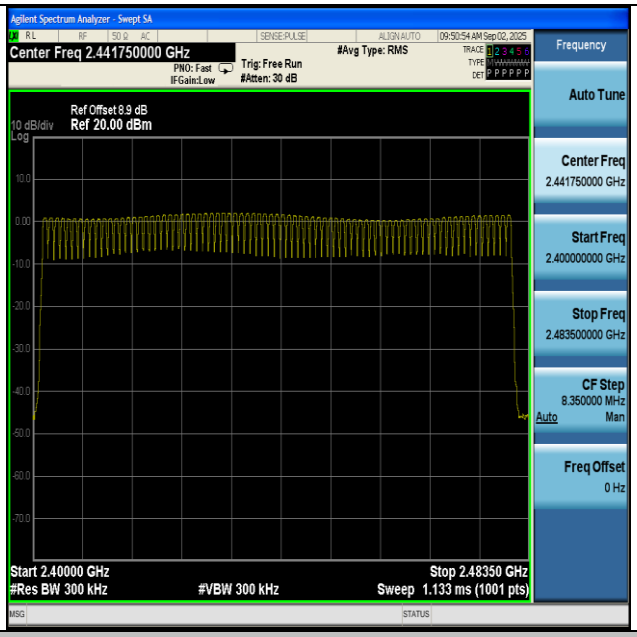
Appendix F: Number of hopping channels

Test Result

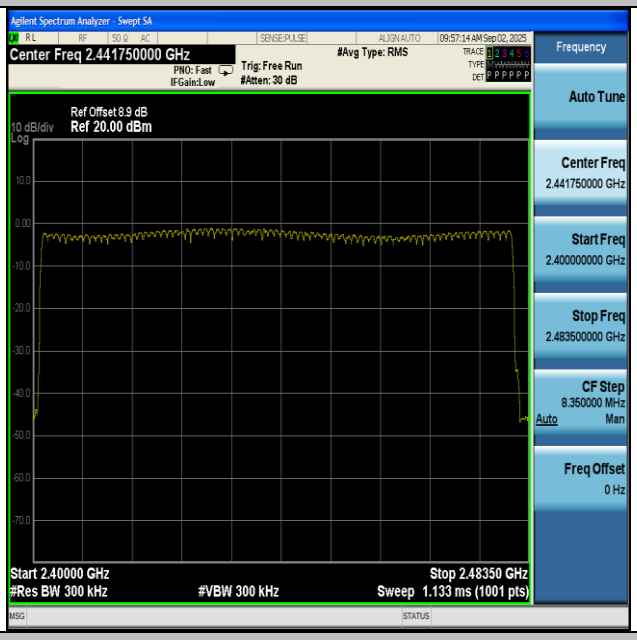
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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

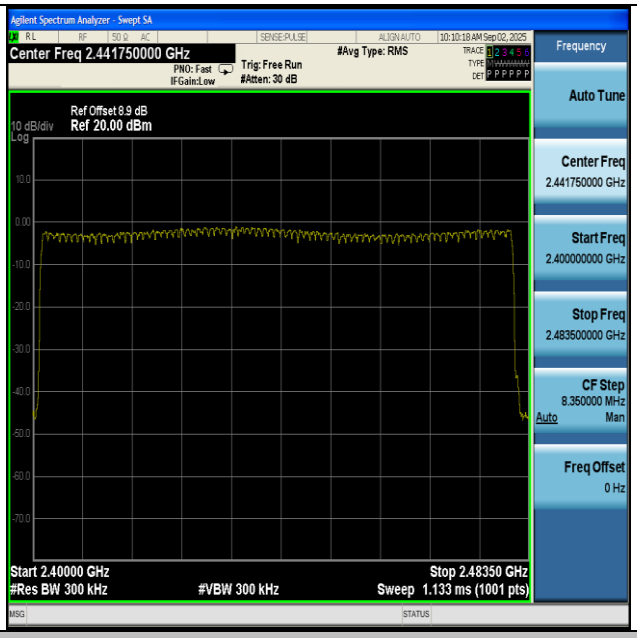
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

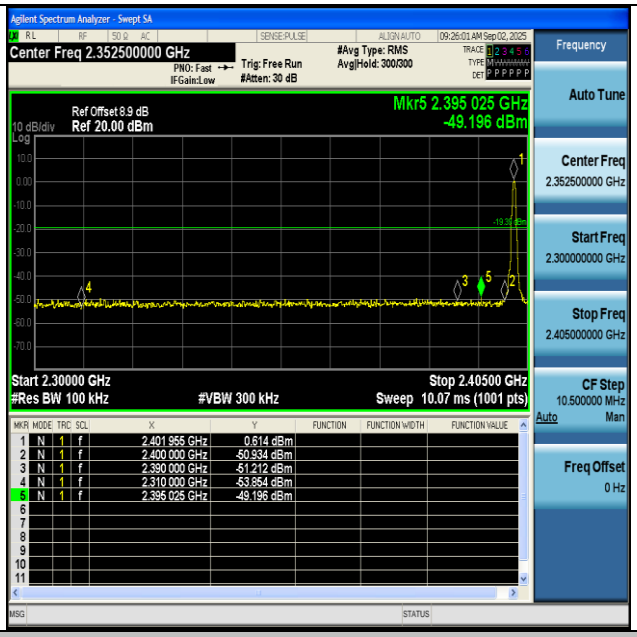
Appendix G: Band edge measurements

Test Result

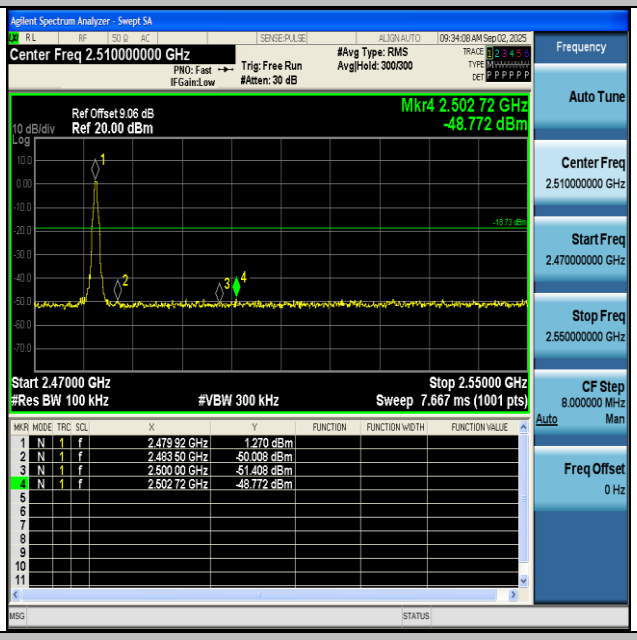
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.61	-49.2	≤-19.39	PASS
DH5	Ant1	High	2480	1.27	-48.77	≤-18.73	PASS
DH5	Ant1	Low	Hop_2402	-0.16	-49.13	≤-20.16	PASS
DH5	Ant1	High	Hop_2480	1.23	-48.33	≤-18.77	PASS
2DH5	Ant1	Low	2402	-2.66	-49.04	≤-22.66	PASS
2DH5	Ant1	High	2480	-1.92	-47.87	≤-21.92	PASS
2DH5	Ant1	Low	Hop_2402	-3.28	-49.52	≤-23.28	PASS
2DH5	Ant1	High	Hop_2480	-2.82	-48.22	≤-22.82	PASS
3DH5	Ant1	Low	2402	-2.56	-48.86	≤-22.56	PASS
3DH5	Ant1	High	2480	-2.67	-48.83	≤-22.67	PASS
3DH5	Ant1	Low	Hop_2402	-5.21	-48.22	≤-25.21	PASS
3DH5	Ant1	High	Hop_2480	-3.87	-48.84	≤-23.87	PASS

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

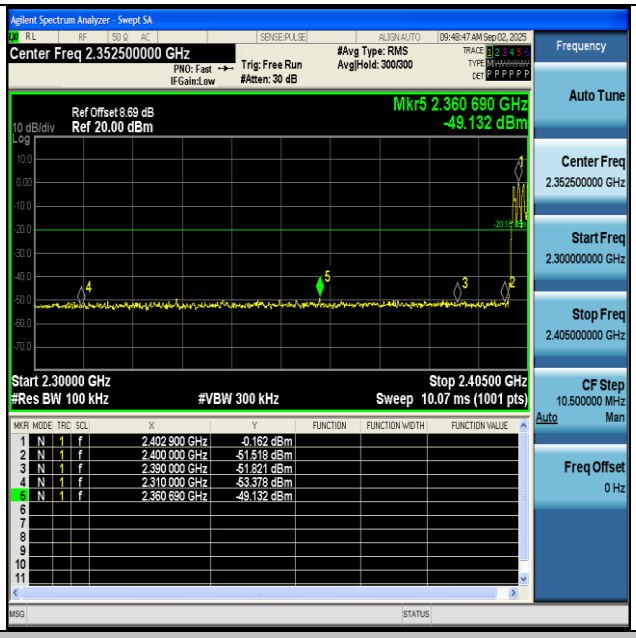
Test Graphs



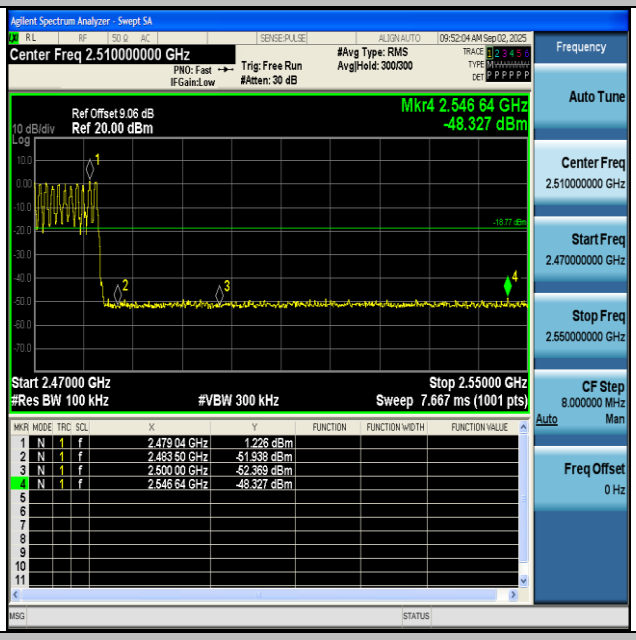
DH5-Ant1-2402-PASS



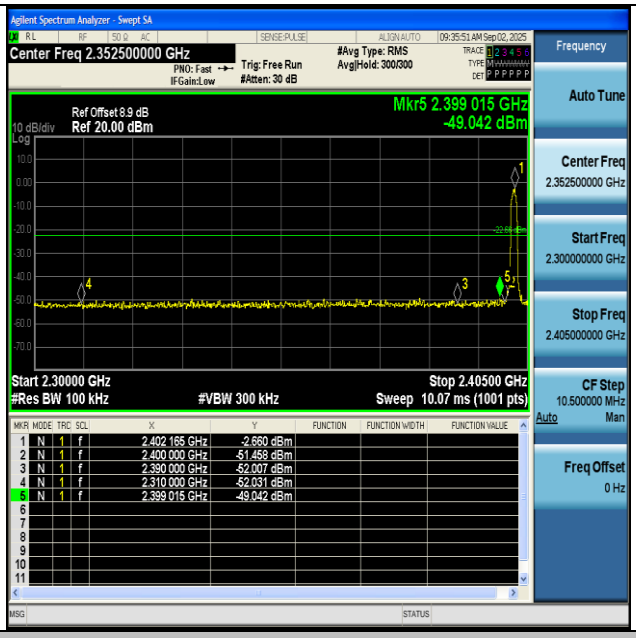
DH5-Ant1-2480-PASS



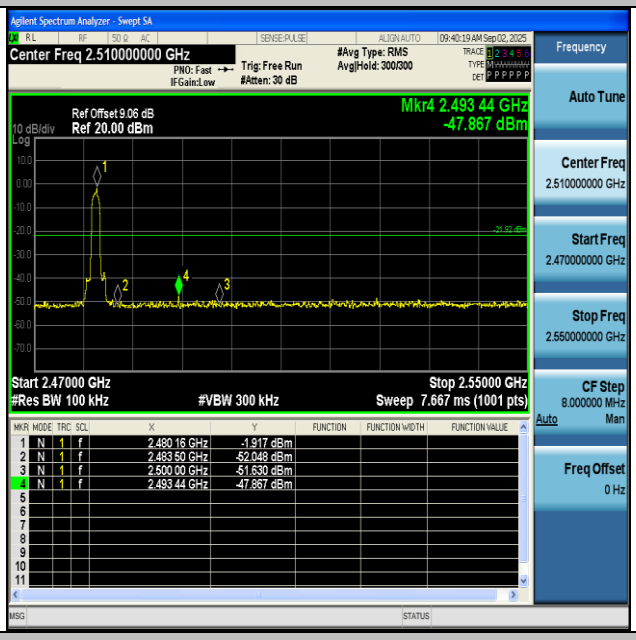
DH5-Ant1-Hop_2402-PASS



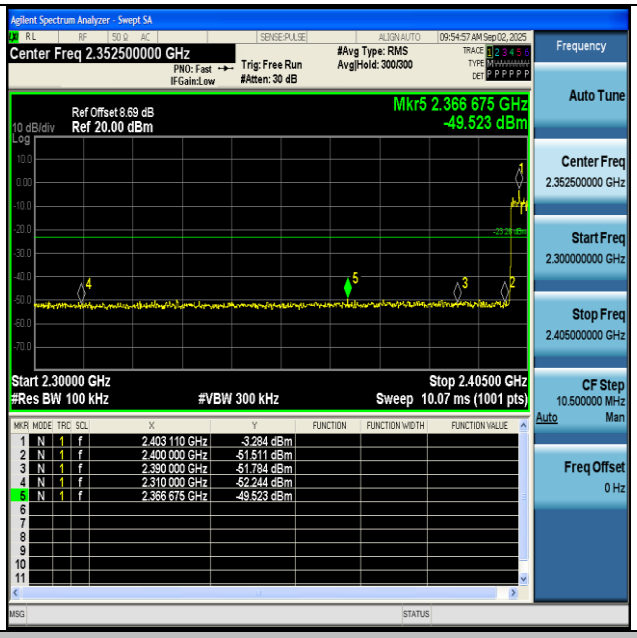
DH5-Ant1-Hop_2480-PASS



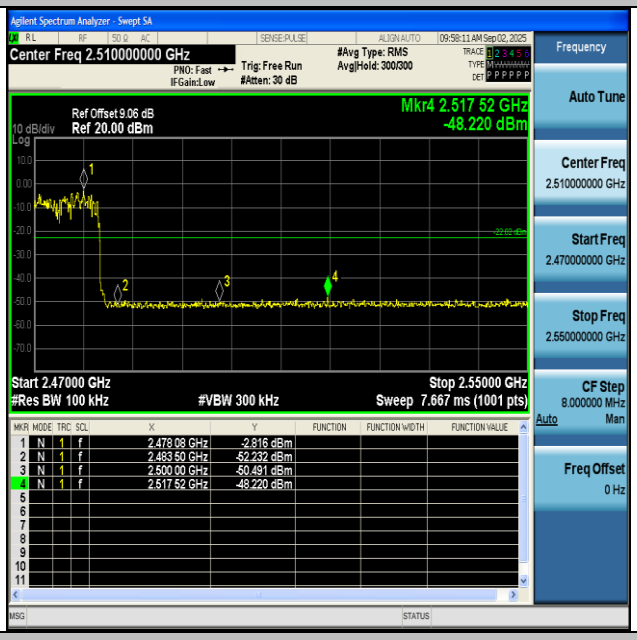
2DH5-Ant1-2402-PASS



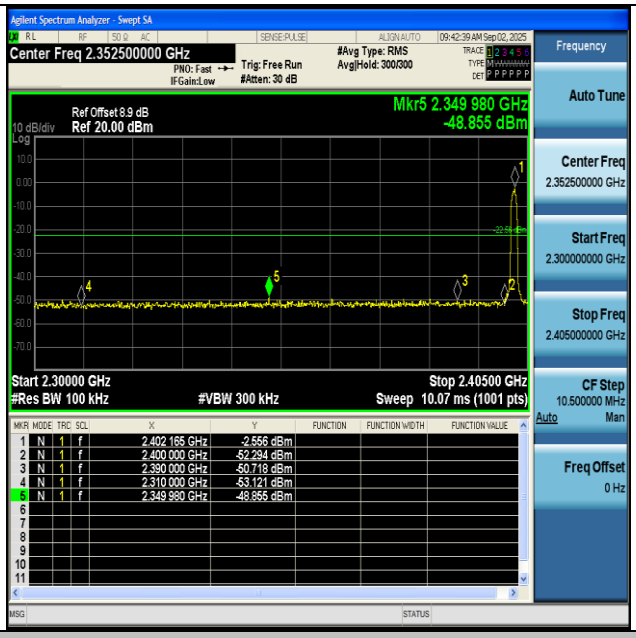
2DH5-Ant1-2480-PASS



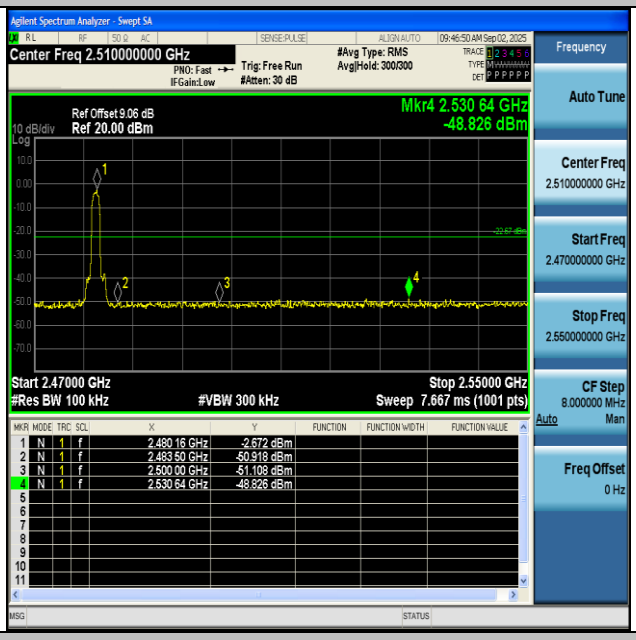
2DH5-Ant1-Hop_2402-PASS



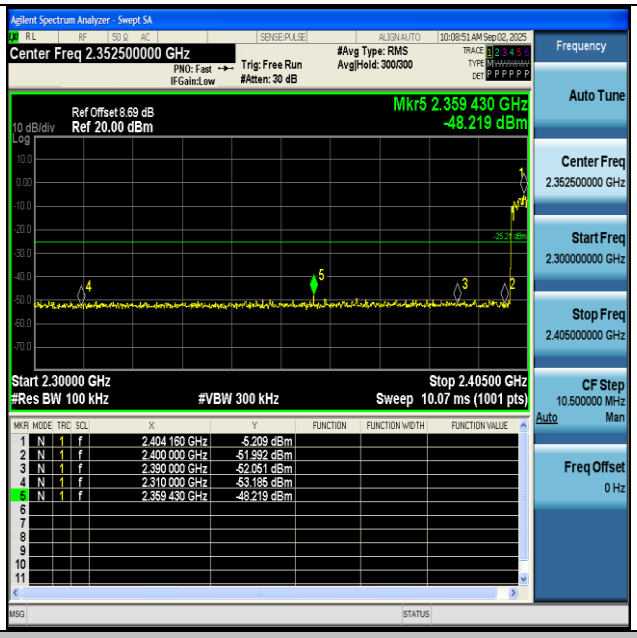
2DH5-Ant1-Hop_2480-PASS



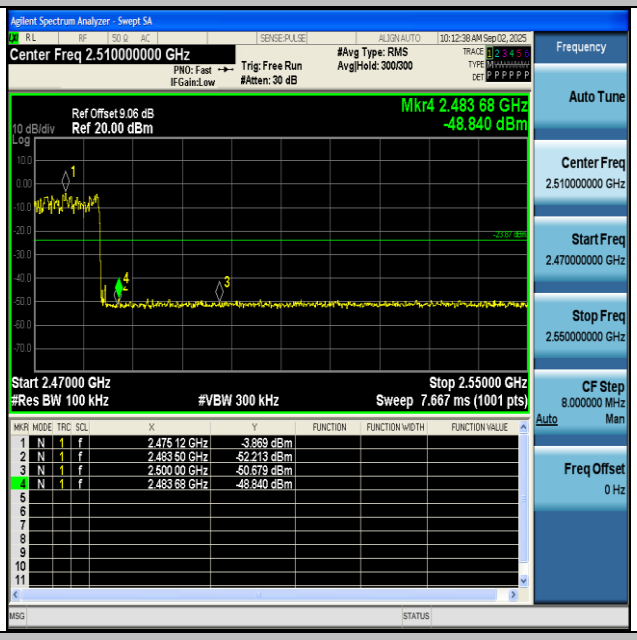
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

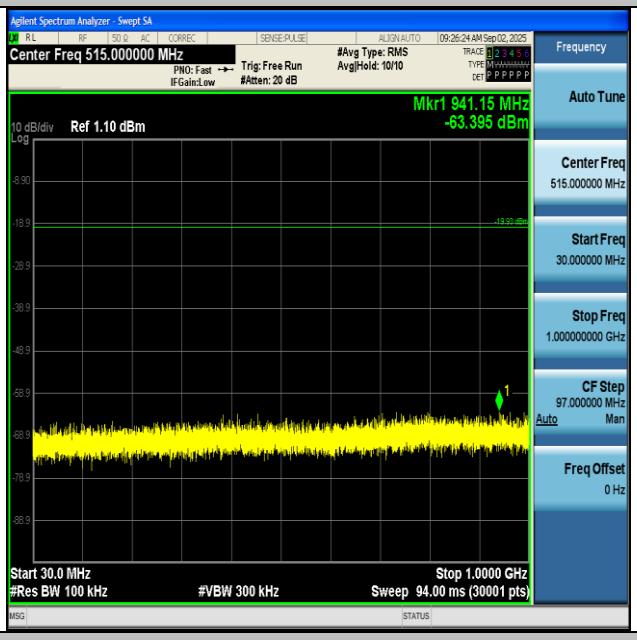
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.07	0.07	---	PASS
DH5	Ant1	2402	30~1000	0.07	-63.4	≤-19.93	PASS
DH5	Ant1	2402	1000~26500	0.07	-45.99	≤-19.93	PASS
DH5	Ant1	2441	0~Reference	0.99	0.99	---	PASS
DH5	Ant1	2441	30~1000	0.99	-63.01	≤-19.01	PASS
DH5	Ant1	2441	1000~26500	0.99	-45.4	≤-19.01	PASS
DH5	Ant1	2480	0~Reference	1.07	1.07	---	PASS
DH5	Ant1	2480	30~1000	1.07	-62.53	≤-18.93	PASS
DH5	Ant1	2480	1000~26500	1.07	-45.64	≤-18.93	PASS
2DH5	Ant1	2402	0~Reference	-2.72	-2.72	---	PASS
2DH5	Ant1	2402	30~1000	-2.72	-62.58	≤-22.72	PASS
2DH5	Ant1	2402	1000~26500	-2.72	-45.26	≤-22.72	PASS
2DH5	Ant1	2441	0~Reference	0.83	0.83	---	PASS
2DH5	Ant1	2441	30~1000	0.83	-62.94	≤-19.17	PASS
2DH5	Ant1	2441	1000~26500	0.83	-45.42	≤-19.17	PASS
2DH5	Ant1	2480	0~Reference	-2.67	-2.67	---	PASS
2DH5	Ant1	2480	30~1000	-2.67	-62.97	≤-22.67	PASS
2DH5	Ant1	2480	1000~26500	-2.67	-44.69	≤-22.67	PASS
3DH5	Ant1	2402	0~Reference	-3.68	-3.68	---	PASS
3DH5	Ant1	2402	30~1000	-3.68	-62.82	≤-23.68	PASS
3DH5	Ant1	2402	1000~26500	-3.68	-45.94	≤-23.68	PASS
3DH5	Ant1	2441	0~Reference	-3.87	-3.87	---	PASS
3DH5	Ant1	2441	30~1000	-3.87	-63.05	≤-23.87	PASS
3DH5	Ant1	2441	1000~26500	-3.87	-45.66	≤-23.87	PASS
3DH5	Ant1	2480	0~Reference	-3.75	-3.75	---	PASS
3DH5	Ant1	2480	30~1000	-3.75	-62.86	≤-23.75	PASS
3DH5	Ant1	2480	1000~26500	-3.75	-45.14	≤-23.75	PASS

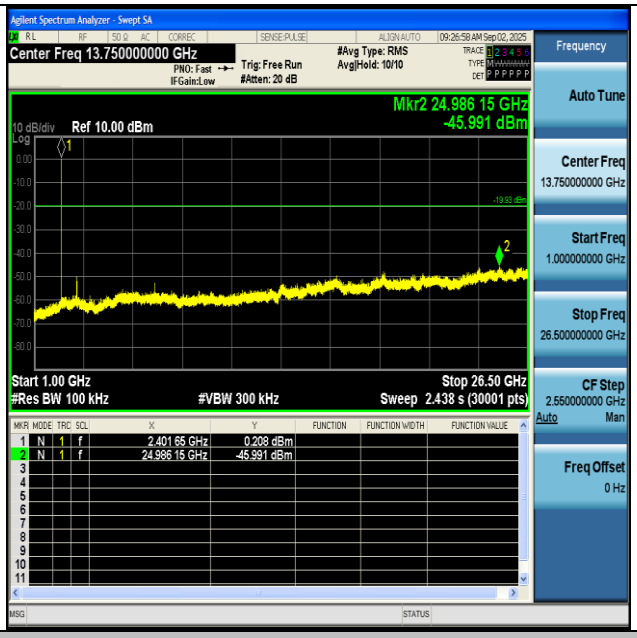
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

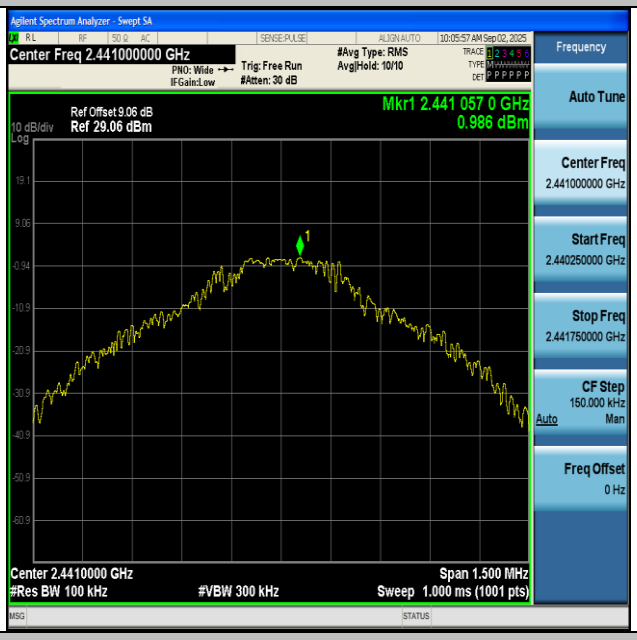
DH5-Ant1-2402-0~Reference-PASS



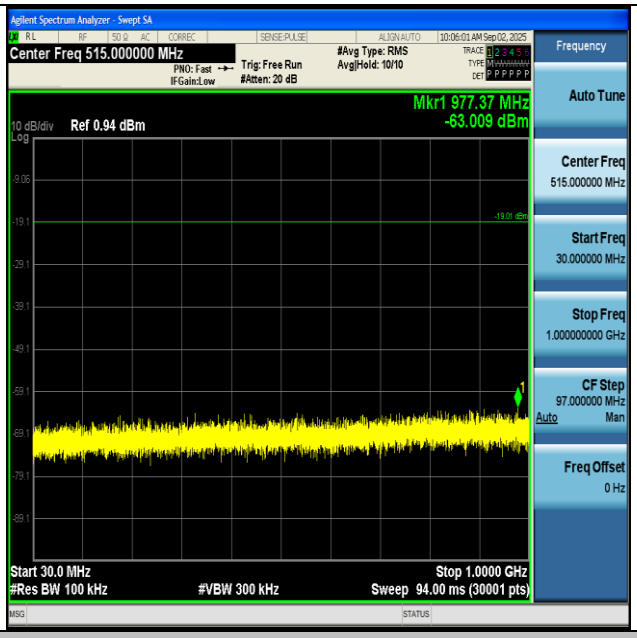
DH5-Ant1-2402-30~1000-PASS



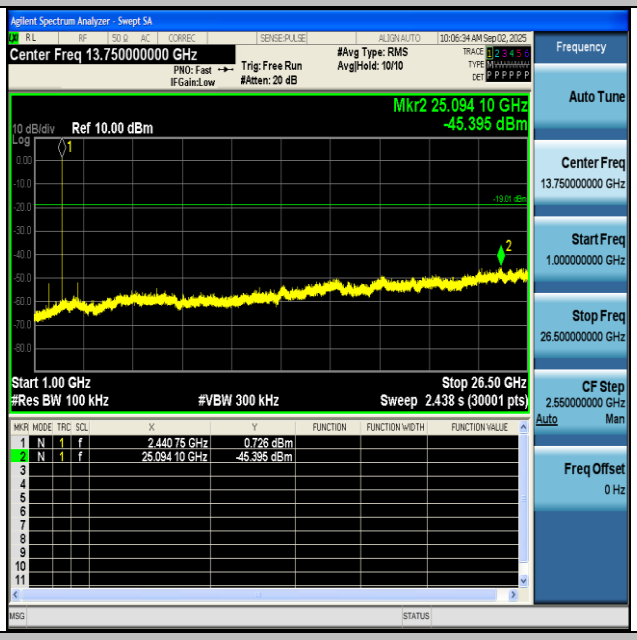
DH5-Ant1-2402-1000~26500-PASS



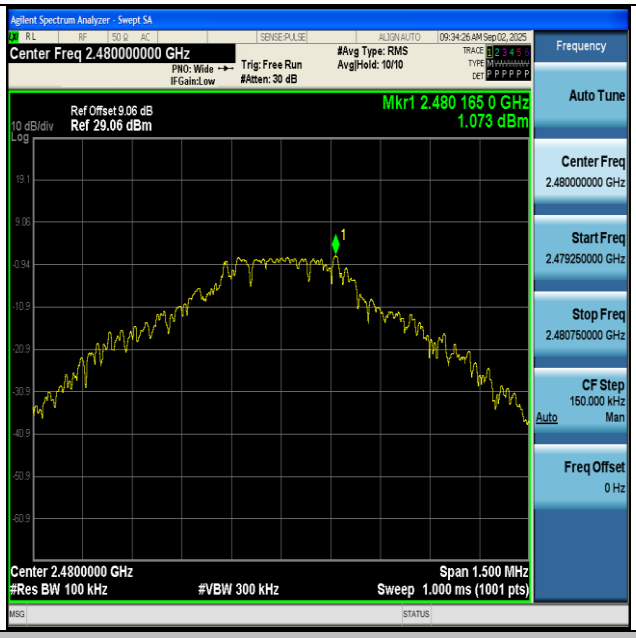
DH5-Ant1-2441-0~Reference-PASS



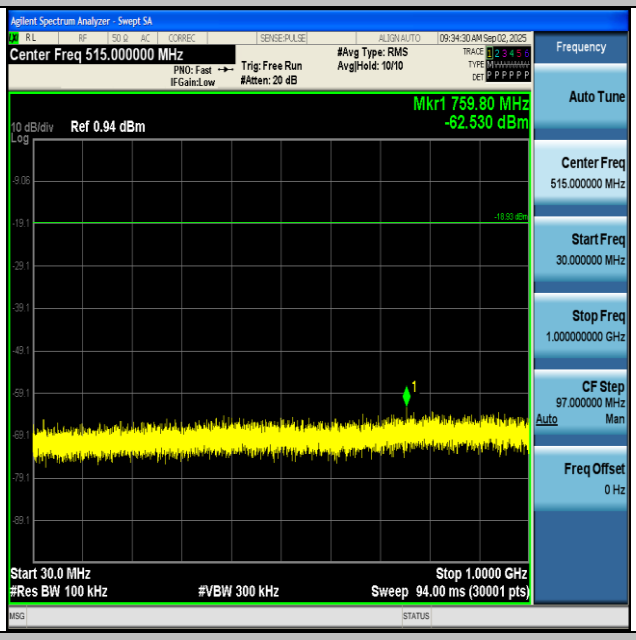
DH5-Ant1-2441-30~1000-PASS



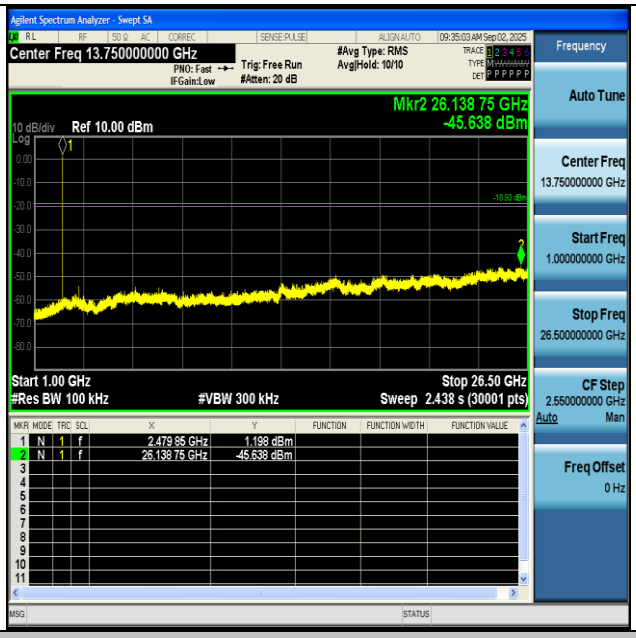
DH5-Ant1-2441-1000~26500-PASS



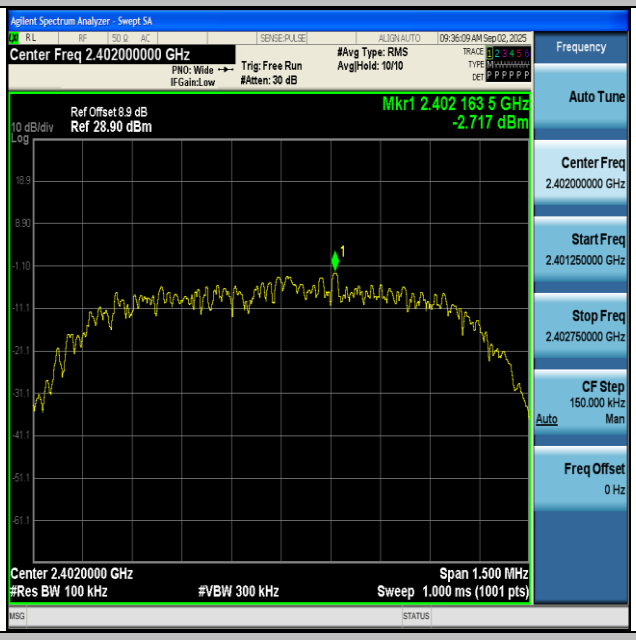
DH5-Ant1-2480-0~Reference-PASS



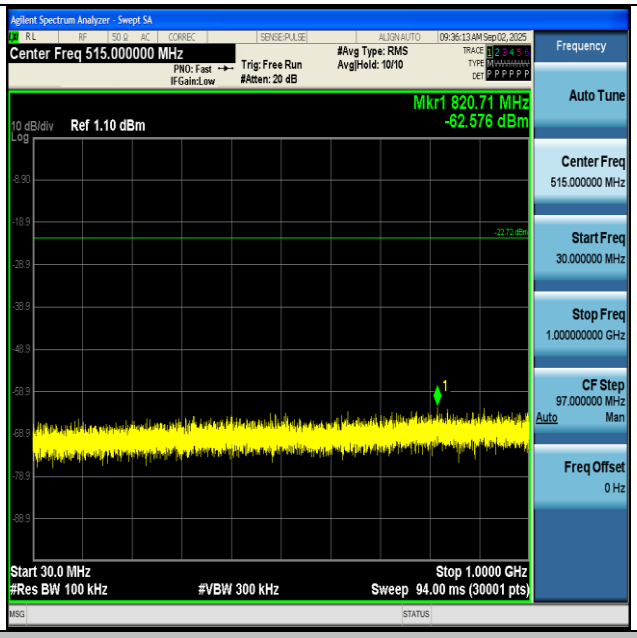
DH5-Ant1-2480-30~1000-PASS



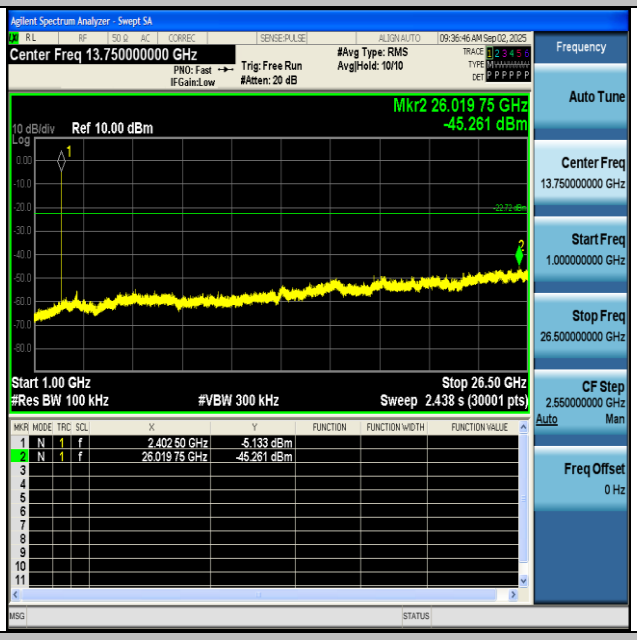
DH5-Ant1-2480-1000~26500-PASS



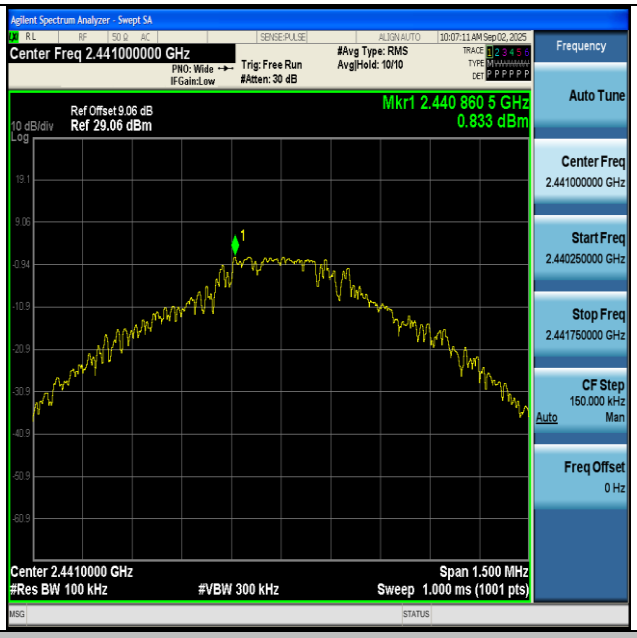
2DH5-Ant1-2402-0~Reference-PASS



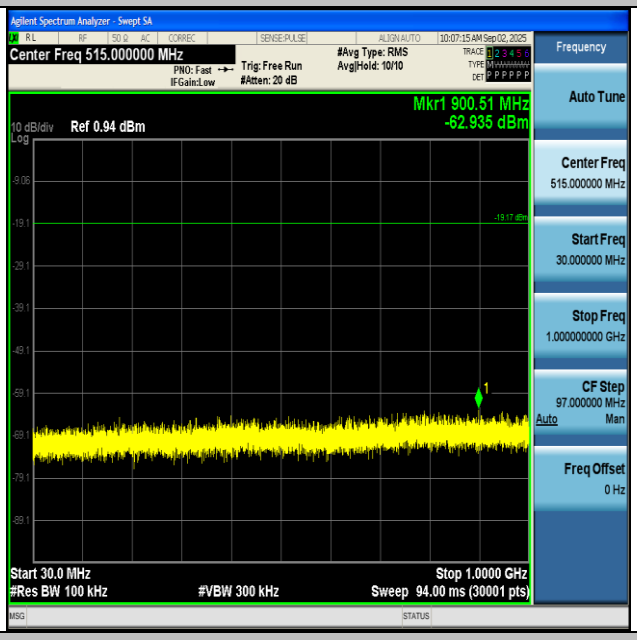
2DH5-Ant1-2402-30~1000-PASS



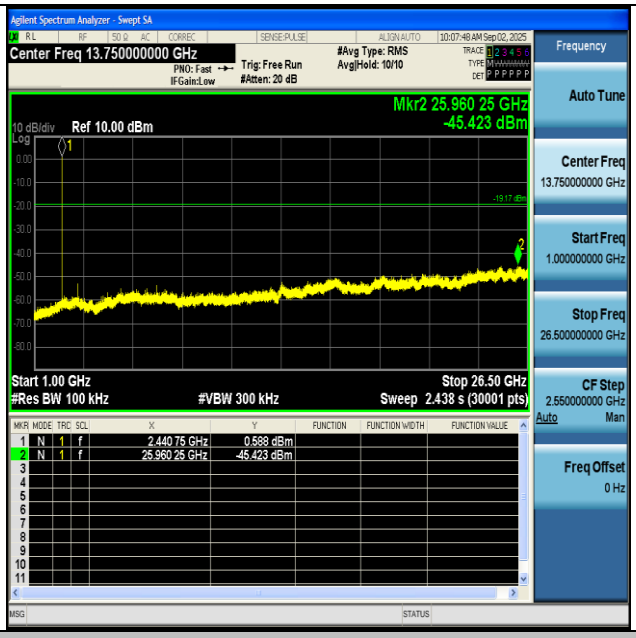
2DH5-Ant1-2402-1000~26500-PASS



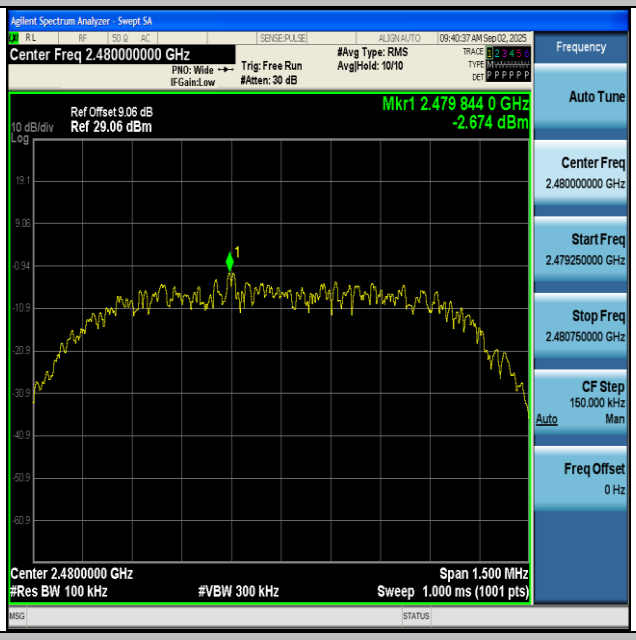
2DH5-Ant1-2441-0~Reference-PASS



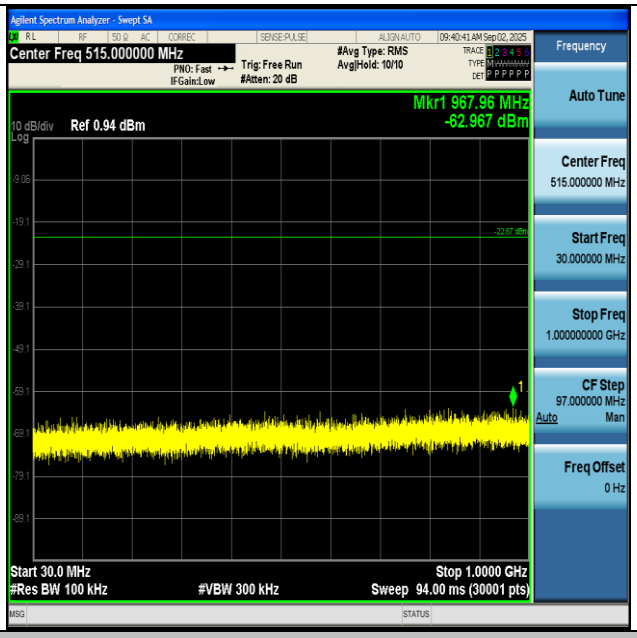
2DH5-Ant1-2441-30~1000-PASS



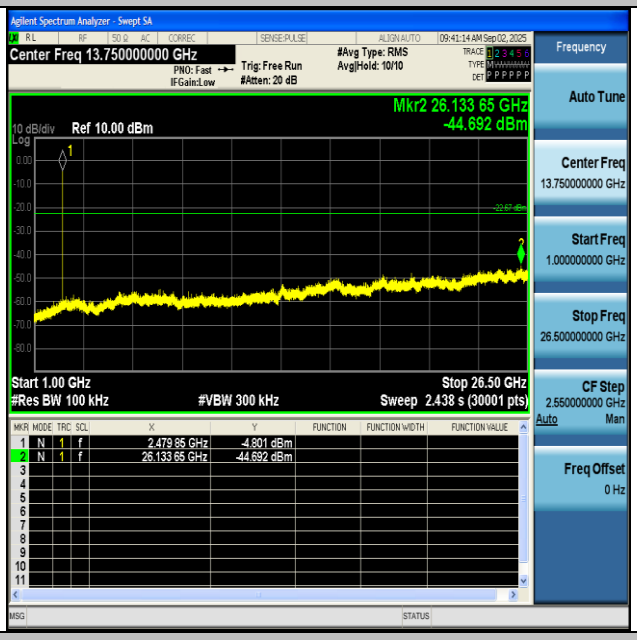
2DH5-Ant1-2441-1000~26500-PASS



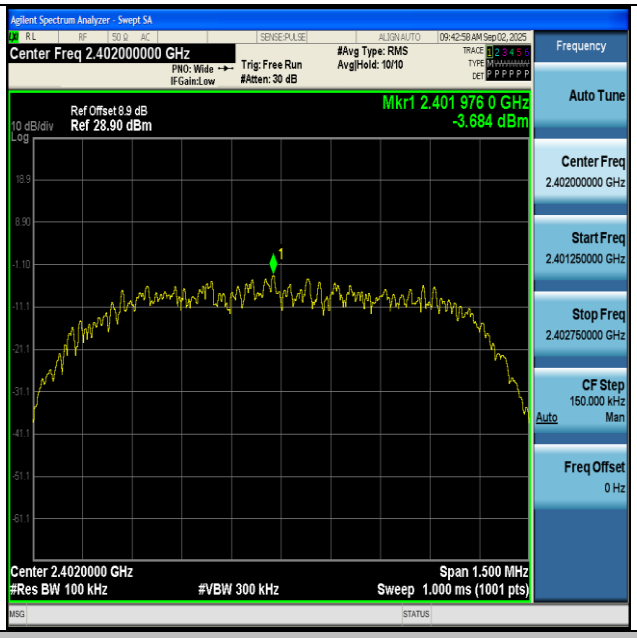
2DH5-Ant1-2480-0~Reference-PASS



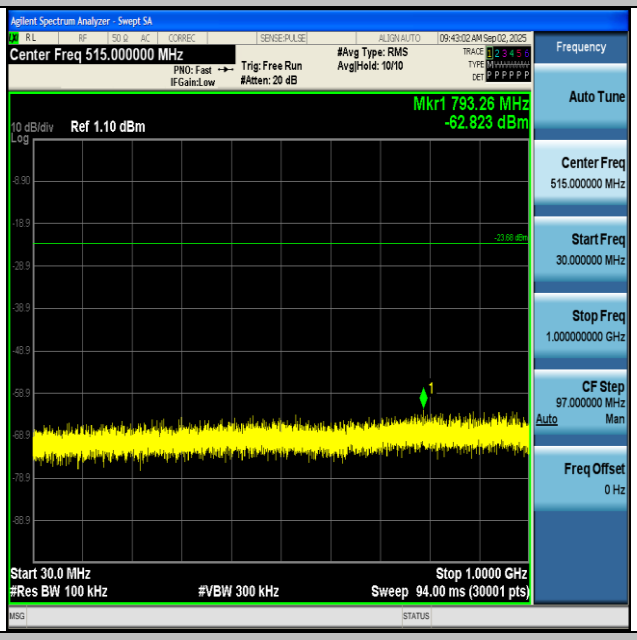
2DH5-Ant1-2480-30~1000-PASS



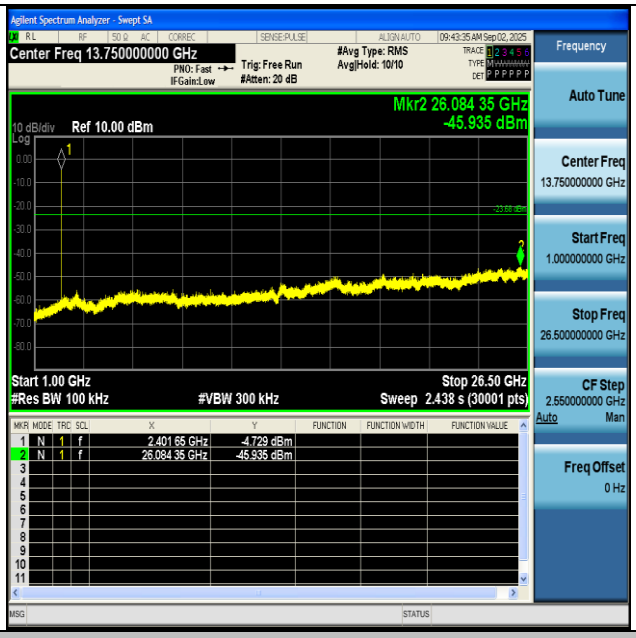
2DH5-Ant1-2480-1000~26500-PASS



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

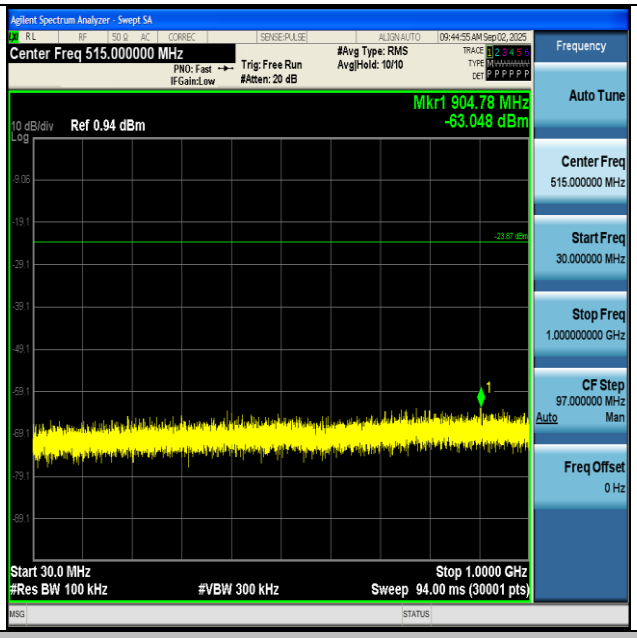


3DH5-Ant1-2402-30~1000-PASS

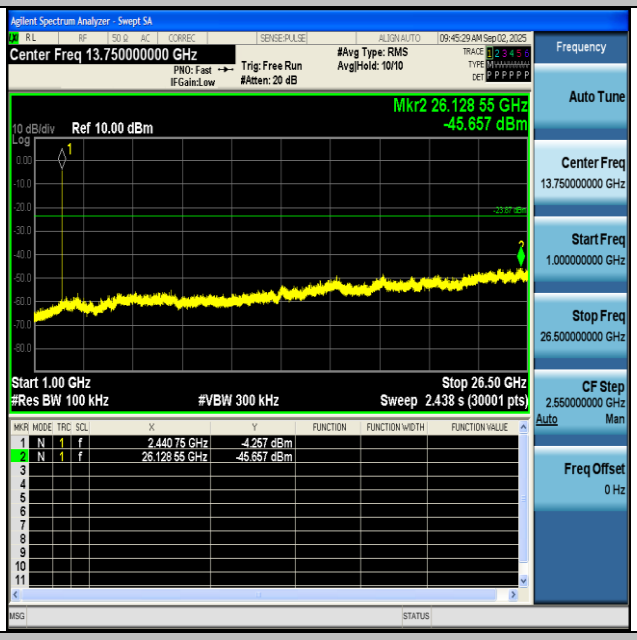


3DH5-Ant1-2402-1000~26500-PASS

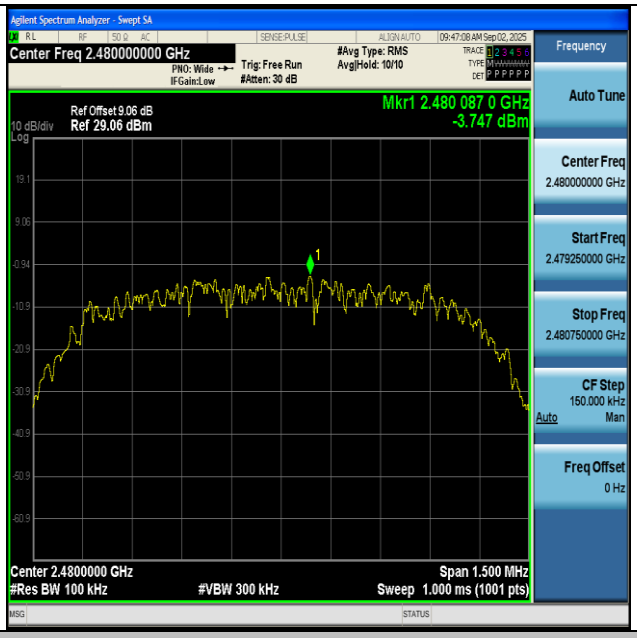
3DH5-Ant1-2441-0~Reference-PASS



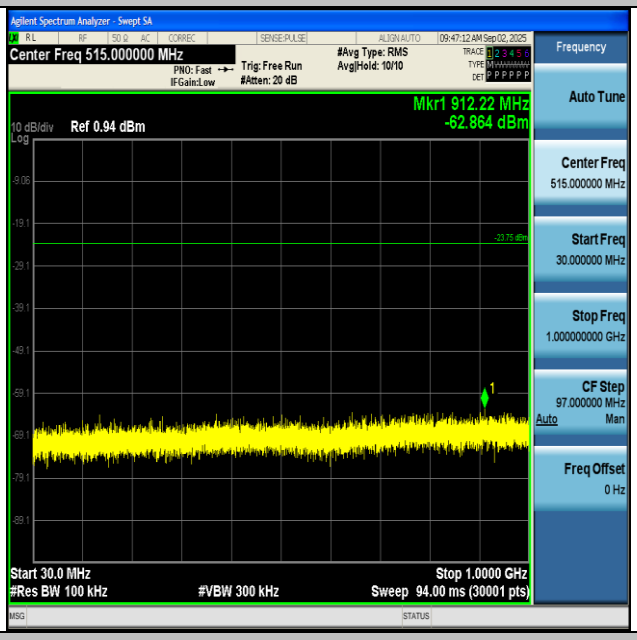
3DH5-Ant1-2441-30~1000-PASS



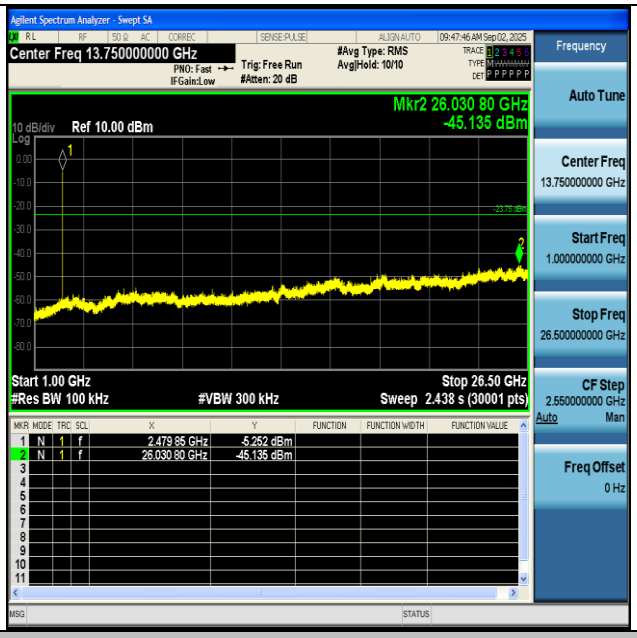
3DH5-Ant1-2441-1000~26500-PASS



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



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



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

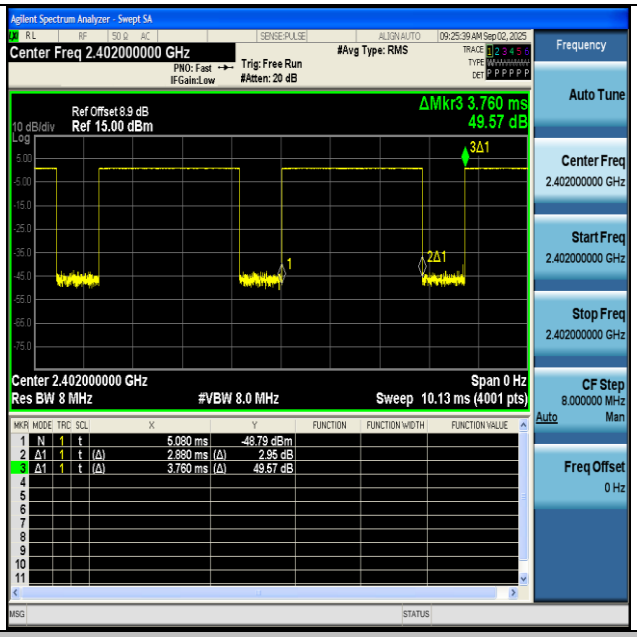
Appendix I: Duty Cycle

Test Result

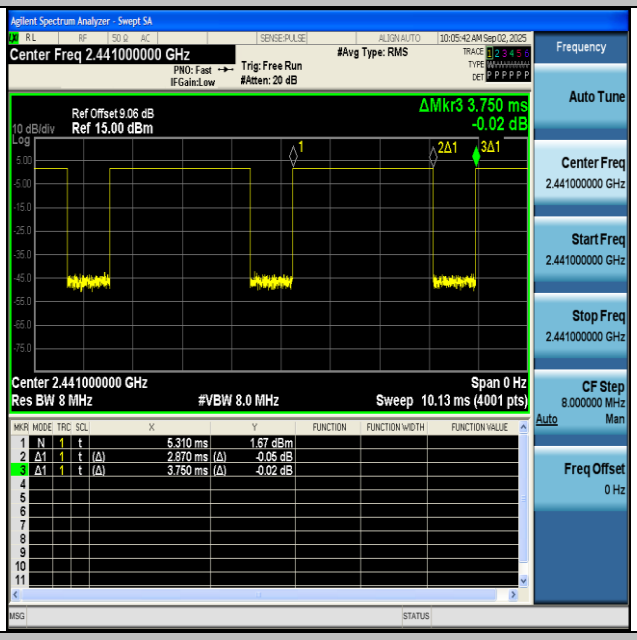
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.76	76.60	1.16
DH5	Ant1	2441	2.87	3.75	76.53	1.16
DH5	Ant1	2480	2.88	3.76	76.60	1.16
2DH5	Ant1	2402	2.87	3.75	76.53	1.16
2DH5	Ant1	2441	2.87	3.75	76.53	1.16
2DH5	Ant1	2480	2.88	3.76	76.60	1.16
3DH5	Ant1	2402	2.88	3.75	76.80	1.15
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)

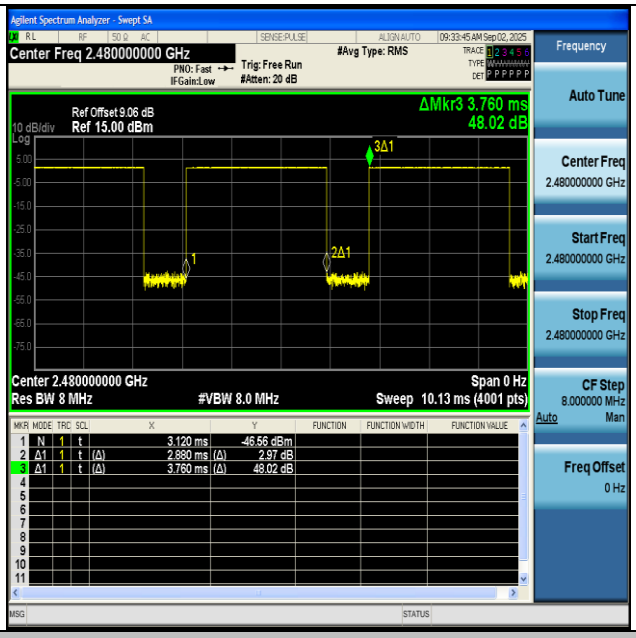
Test Graphs



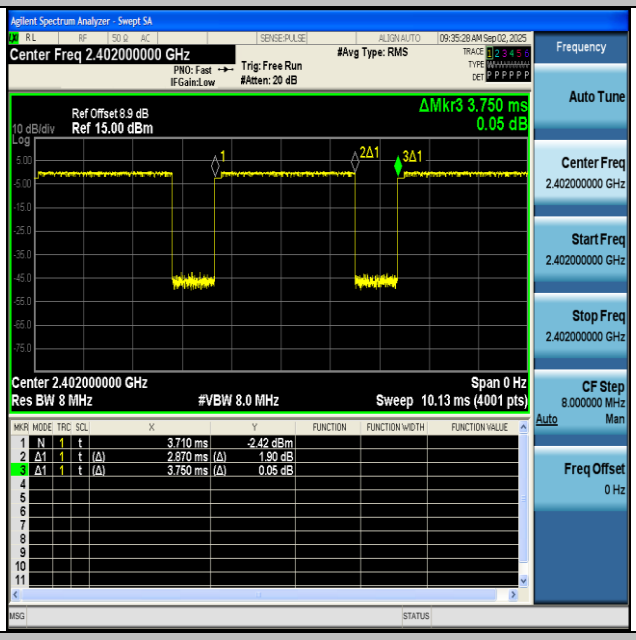
NTNV-DH5-Ant1-2402



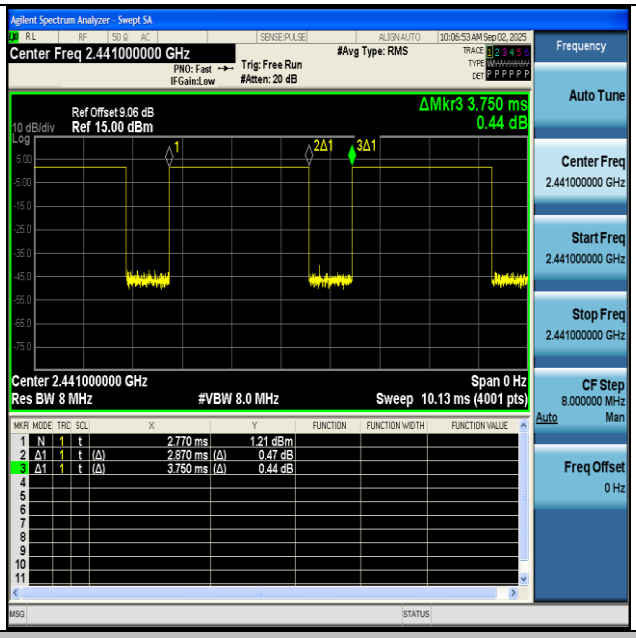
NTNV-DH5-Ant1-2441



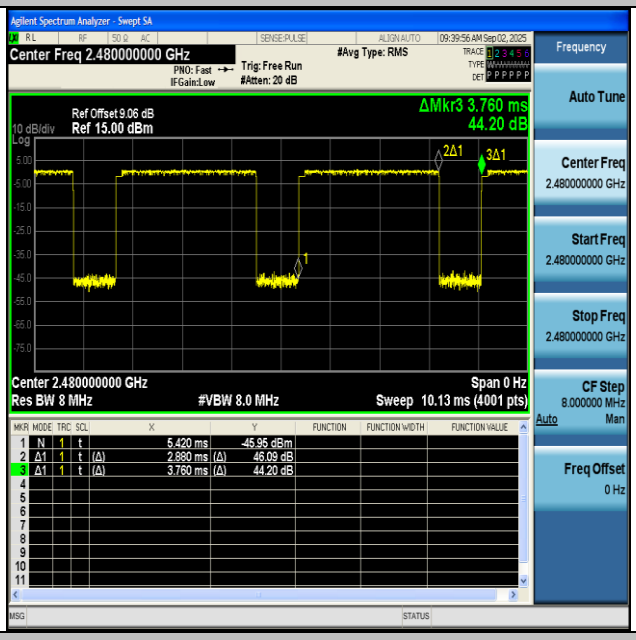
NTNV-DH5-Ant1-2480



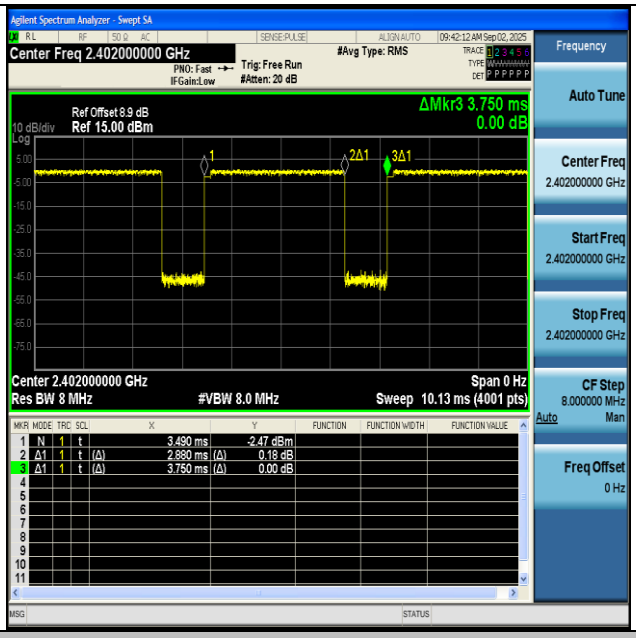
NTNV-2DH5-Ant1-2402



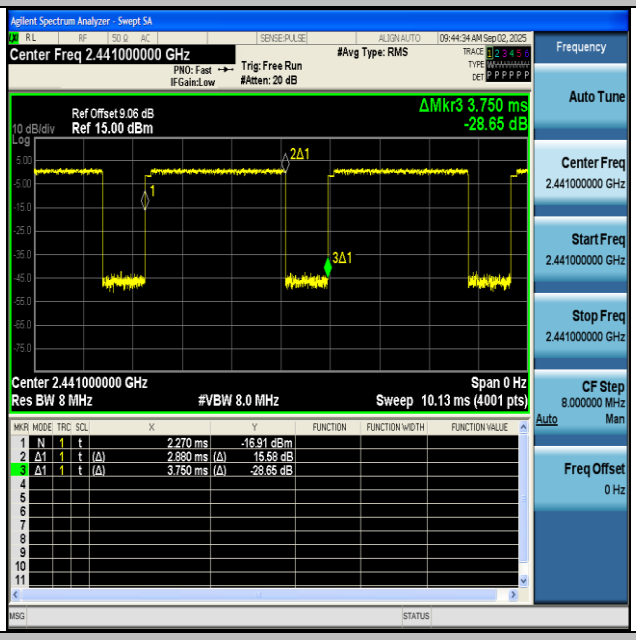
NTNV-2DH5-Ant1-2441



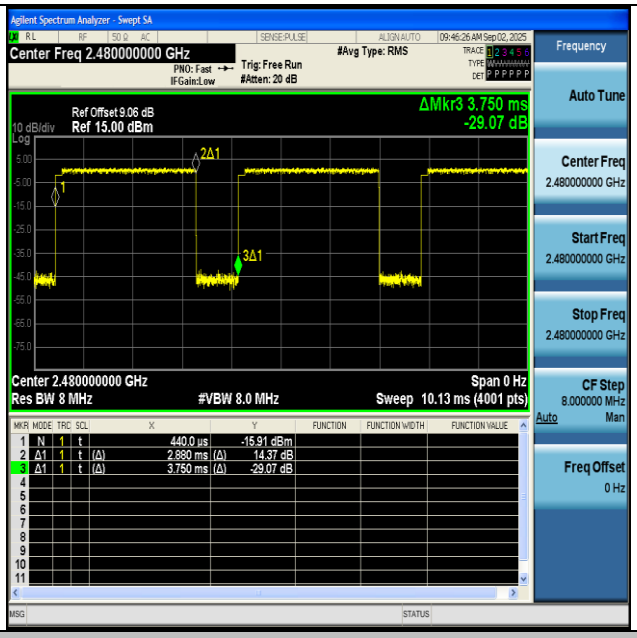
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480