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

Product Name: Wireless Earbuds

Trade Mark: /

Test Model: T40

FCC ID: 2BCRG-T40

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	0.966	2401.580	2402.546	---	---
DH5	Ant1	2441	1.005	2440.547	2441.552	---	---
DH5	Ant1	2480	1.026	2479.526	2480.552	---	---
2DH5	Ant1	2402	1.320	2401.388	2402.708	---	---
2DH5	Ant1	2441	1.290	2440.415	2441.705	---	---
2DH5	Ant1	2480	1.308	2479.391	2480.699	---	---

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

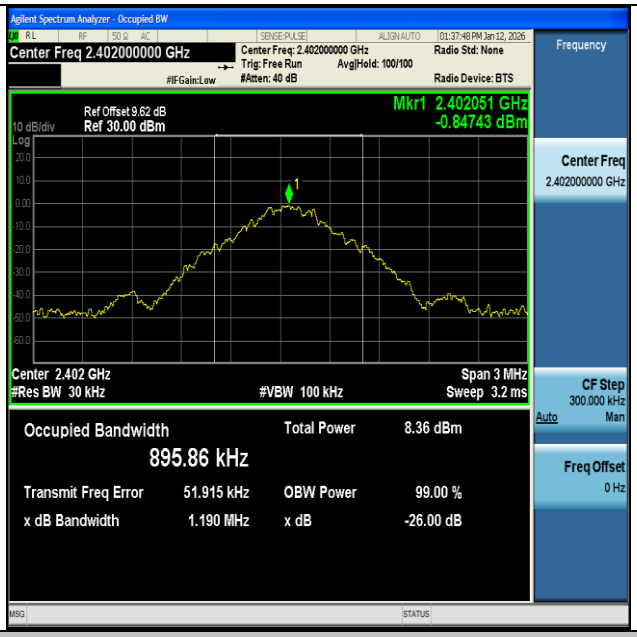
Appendix B: Occupied Channel Bandwidth

Test Result

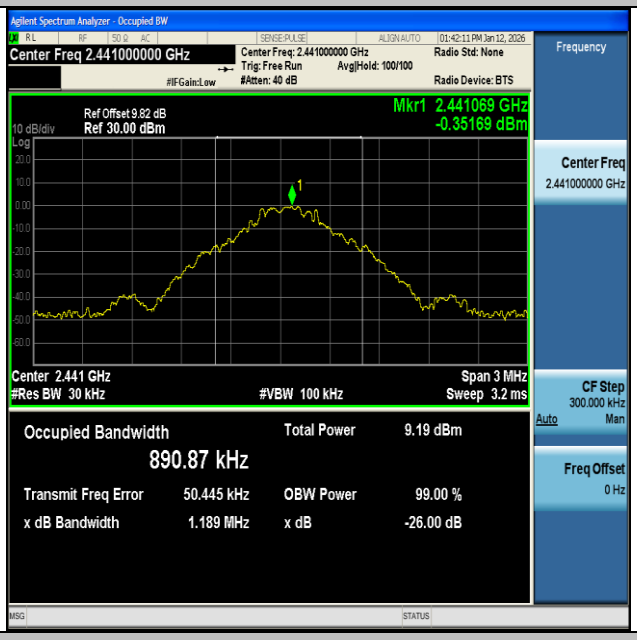
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.89586	2401.6040	2402.4998	---	---
DH5	Ant1	2441	0.89087	2440.6050	2441.4959	---	---
DH5	Ant1	2480	0.89580	2479.6020	2480.4978	---	---
2DH5	Ant1	2402	1.1901	2401.4535	2402.6436	---	---
2DH5	Ant1	2441	1.1884	2440.4556	2441.6440	---	---
2DH5	Ant1	2480	1.1879	2479.4578	2480.6457	---	---

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

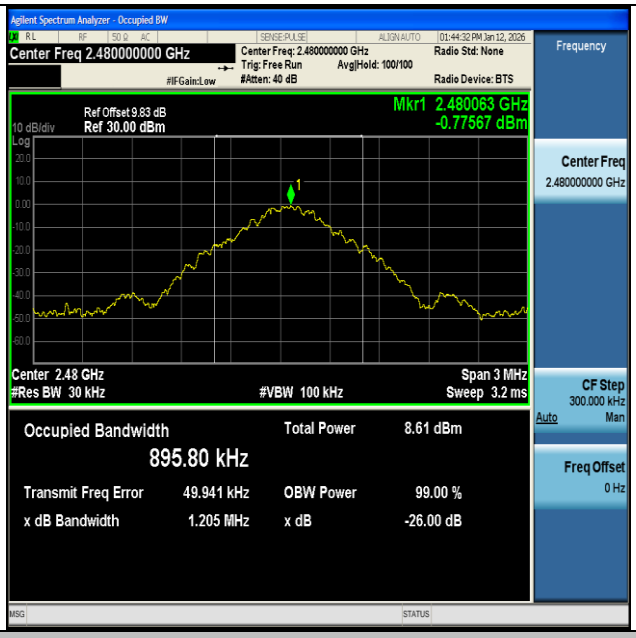
Test Graphs



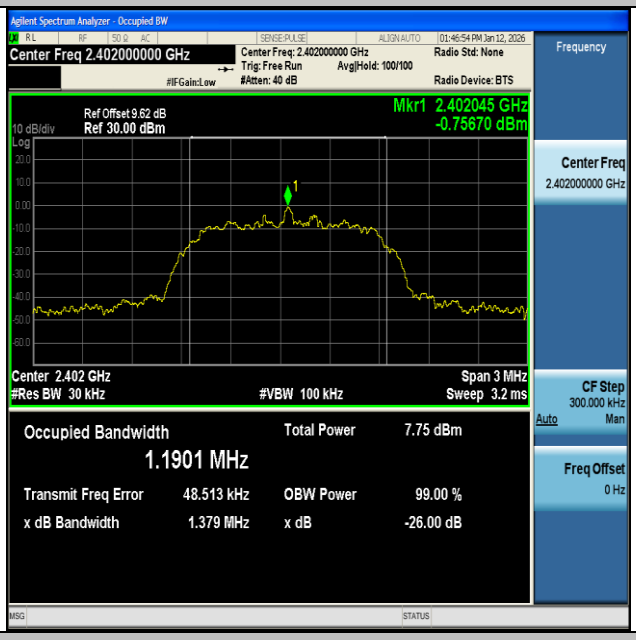
DH5-Ant1-2402



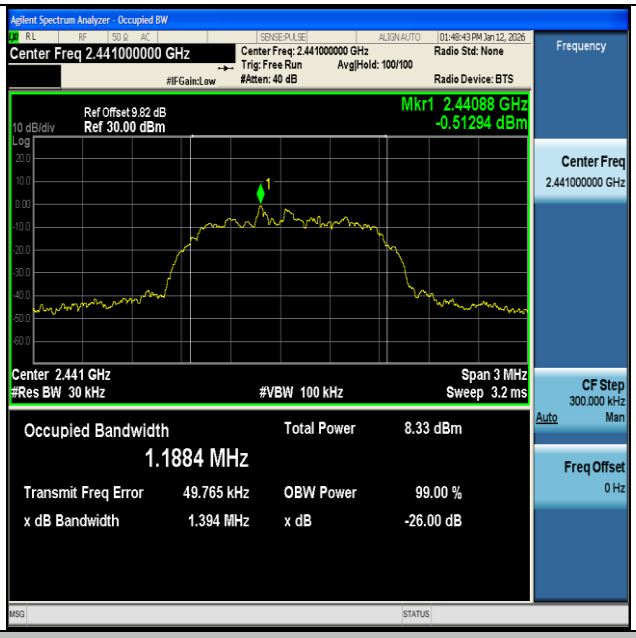
DH5-Ant1-2441



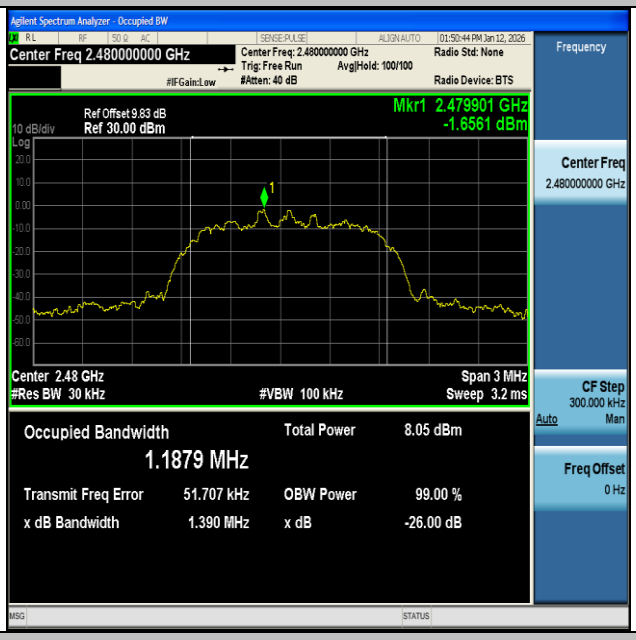
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

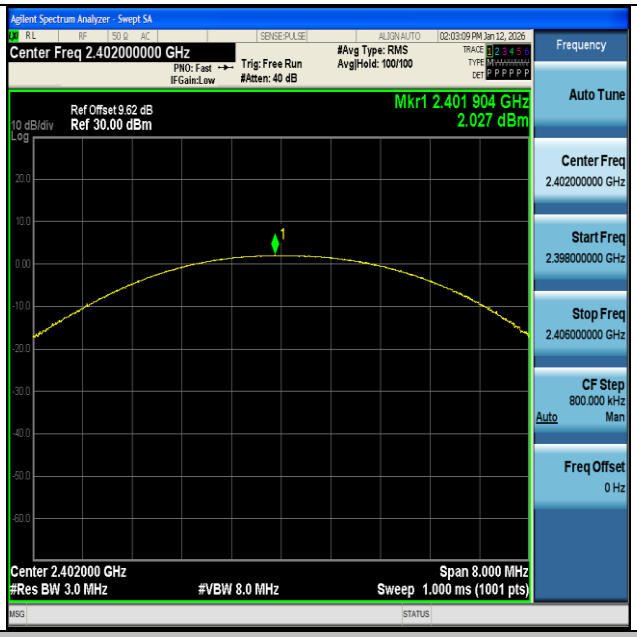
Appendix C: Maximum peak conducted output power

Test Result

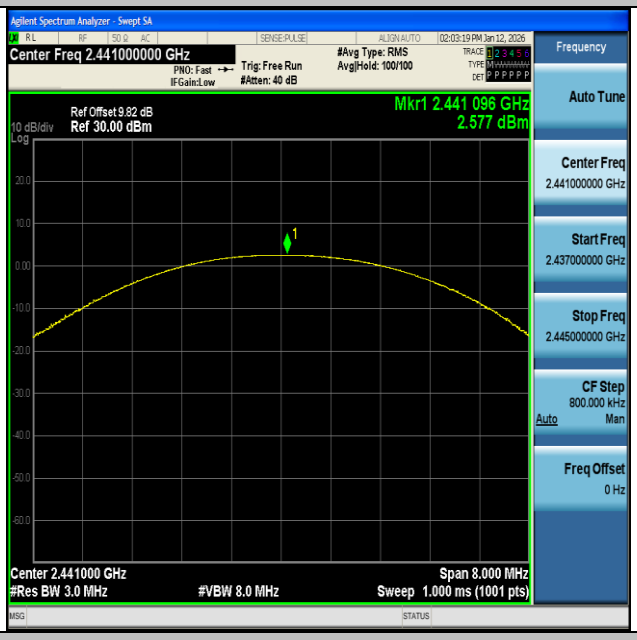
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	2.03	≤20.97	PASS
DH5	Ant1	2441	2.58	≤20.97	PASS
DH5	Ant1	2480	2.25	≤20.97	PASS
2DH5	Ant1	2402	2.76	≤20.97	PASS
2DH5	Ant1	2441	3.29	≤20.97	PASS
2DH5	Ant1	2480	3.02	≤20.97	PASS

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

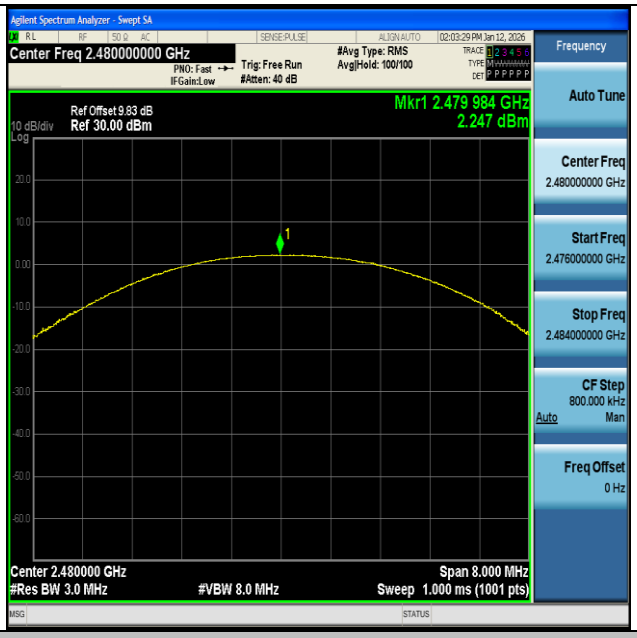
Test Graphs



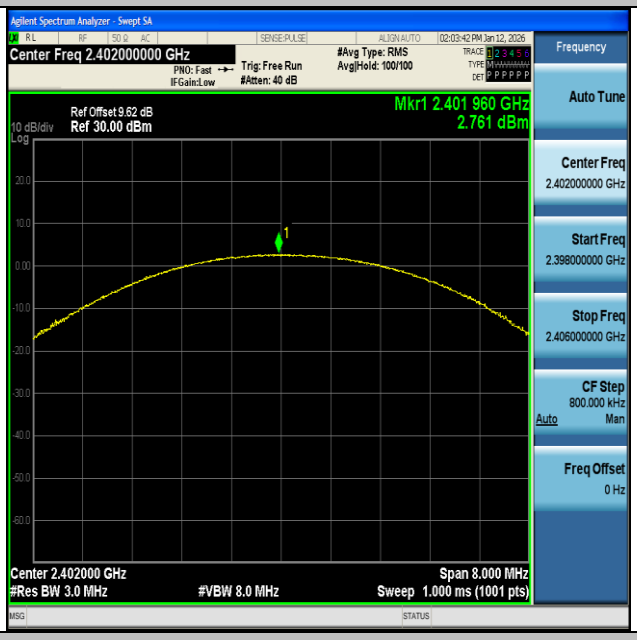
DH5-Ant1-2402-PASS



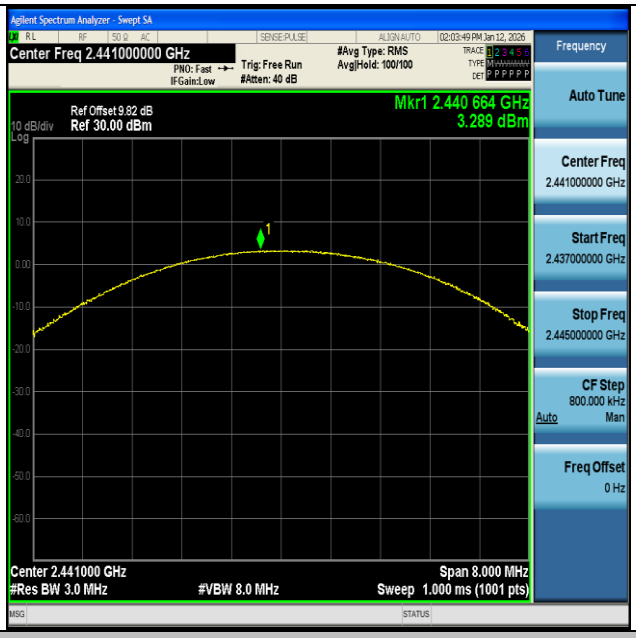
DH5-Ant1-2441-PASS



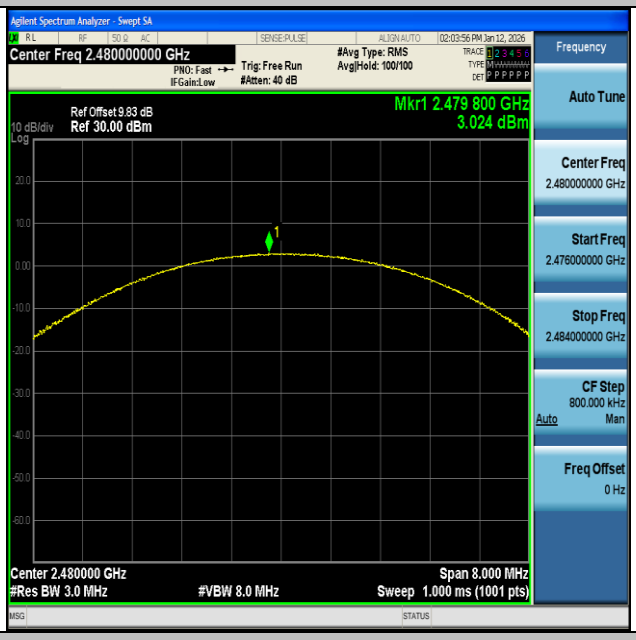
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.004	≥0.684	PASS
2DH5	Ant1	Hop	1.172	≥0.880	PASS

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

Test Graphs

DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS

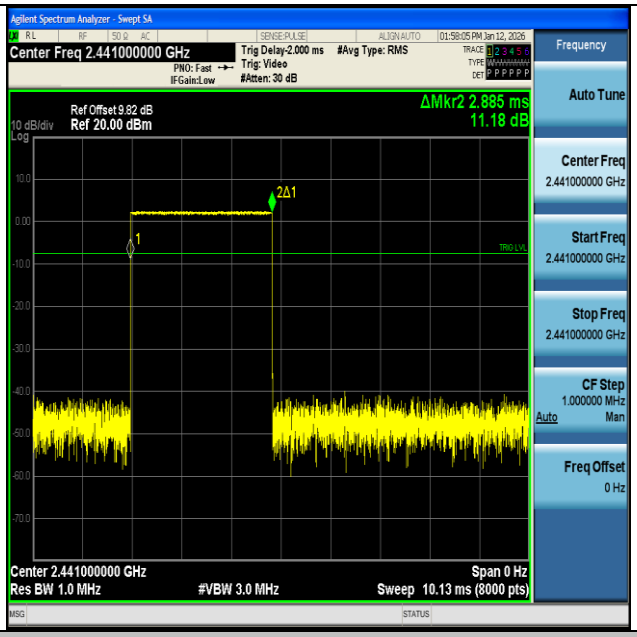
Appendix E: Time of occupancy

Test Result

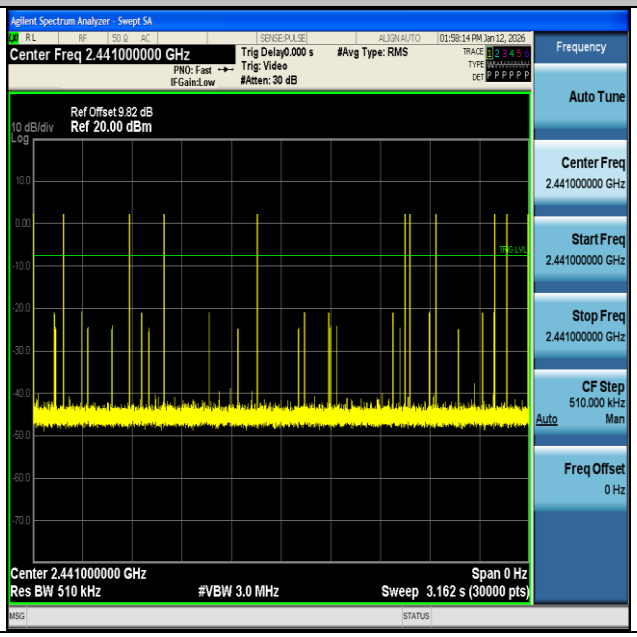
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS

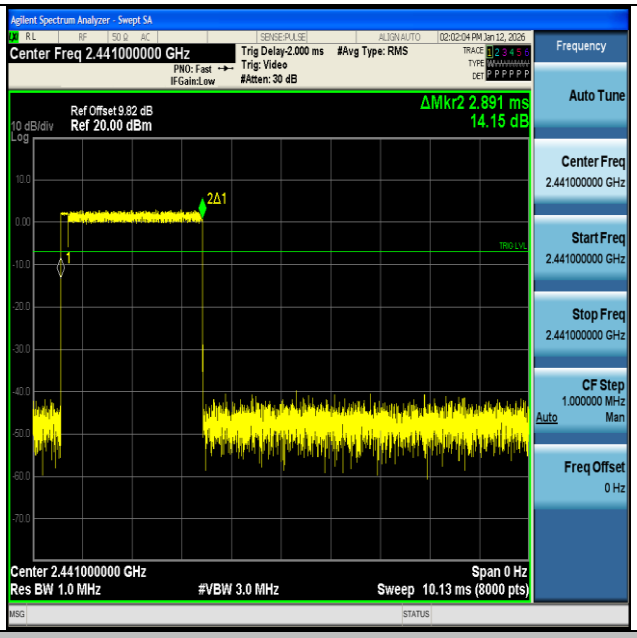
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

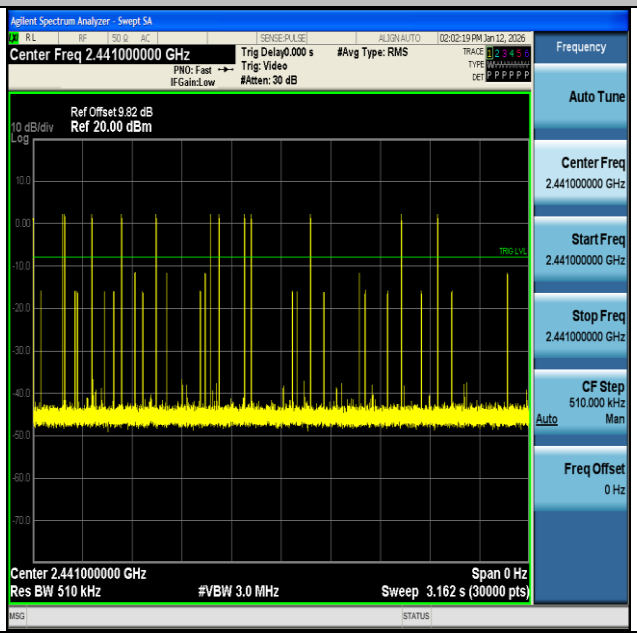


DH5-Ant1-Hop-PASS





2DH5-Ant1-Hop-PASS



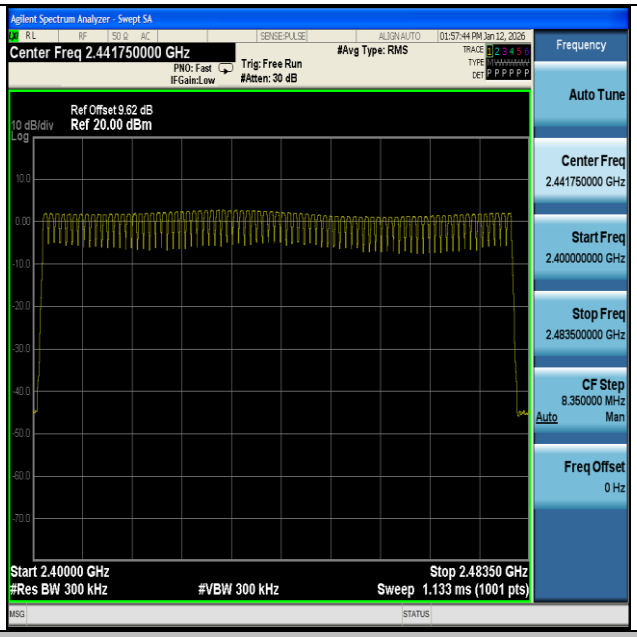
Appendix F: Number of hopping channels

Test Result

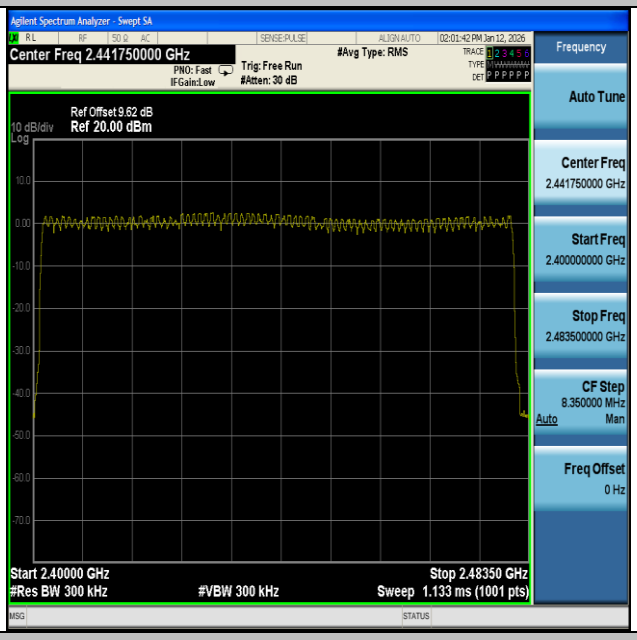
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

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

Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

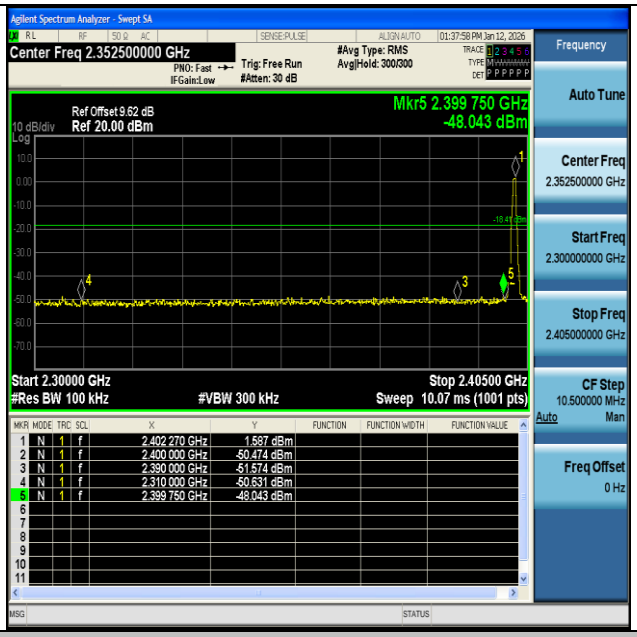
Appendix G: Band edge measurements

Test Result

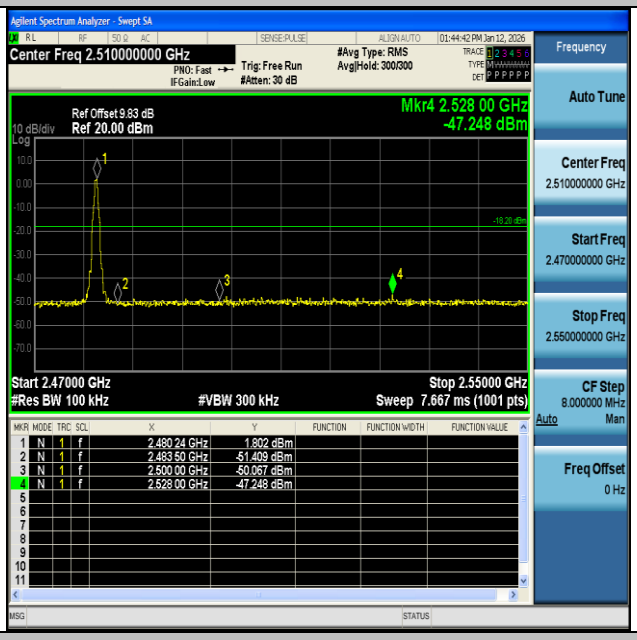
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.59	-48.04	≤-18.41	PASS
DH5	Ant1	High	2480	1.80	-47.25	≤-18.2	PASS
DH5	Ant1	Low	Hop_2402	1.14	-47.1	≤-18.86	PASS
DH5	Ant1	High	Hop_2480	1.00	-47.21	≤-19	PASS
2DH5	Ant1	Low	2402	1.62	-47.65	≤-18.38	PASS
2DH5	Ant1	High	2480	1.86	-48.07	≤-18.14	PASS
2DH5	Ant1	Low	Hop_2402	-2.17	-48.41	≤-22.17	PASS
2DH5	Ant1	High	Hop_2480	-0.89	-47.85	≤-20.89	PASS

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

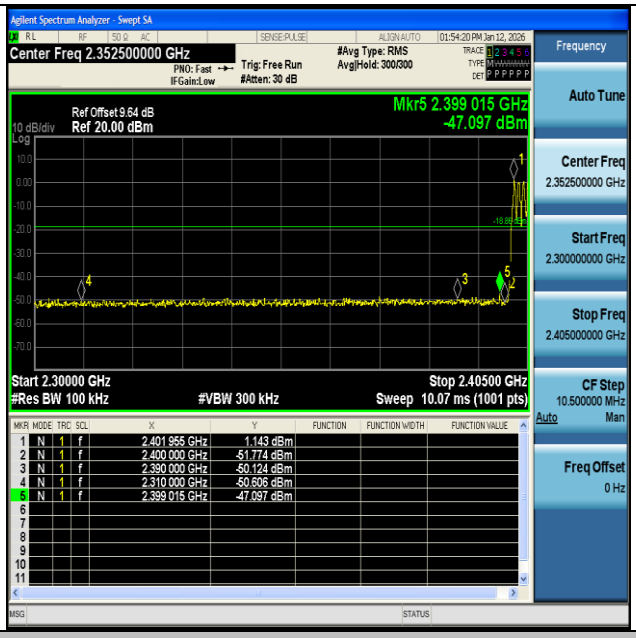
Test Graphs



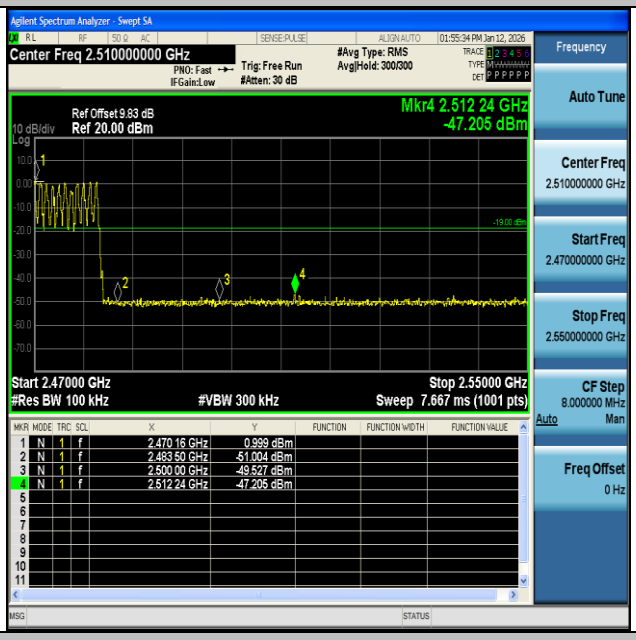
DH5-Ant1-2402-PASS



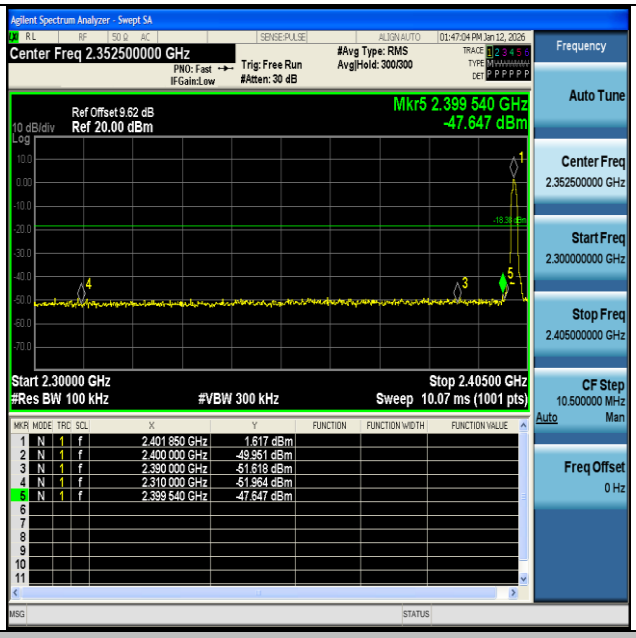
DH5-Ant1-2480-PASS



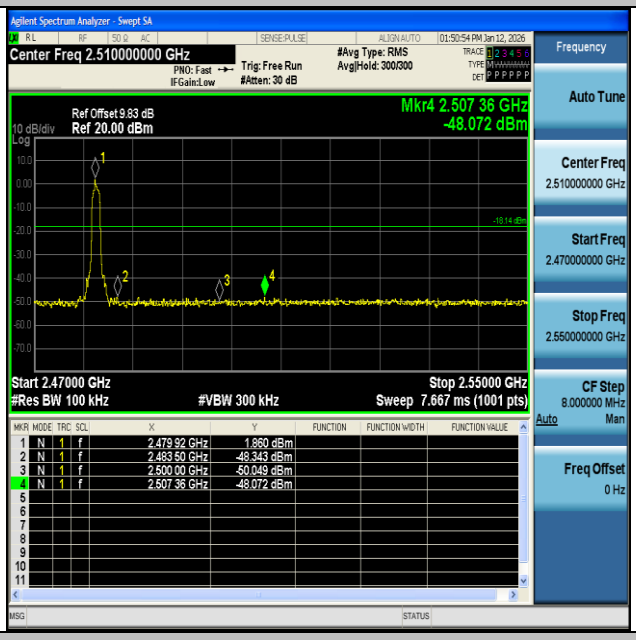
DH5-Ant1-Hop_2402-PASS



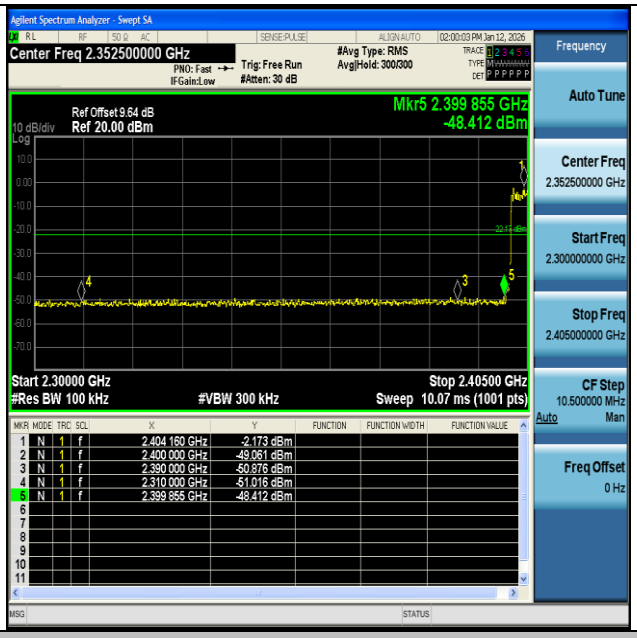
DH5-Ant1-Hop_2480-PASS



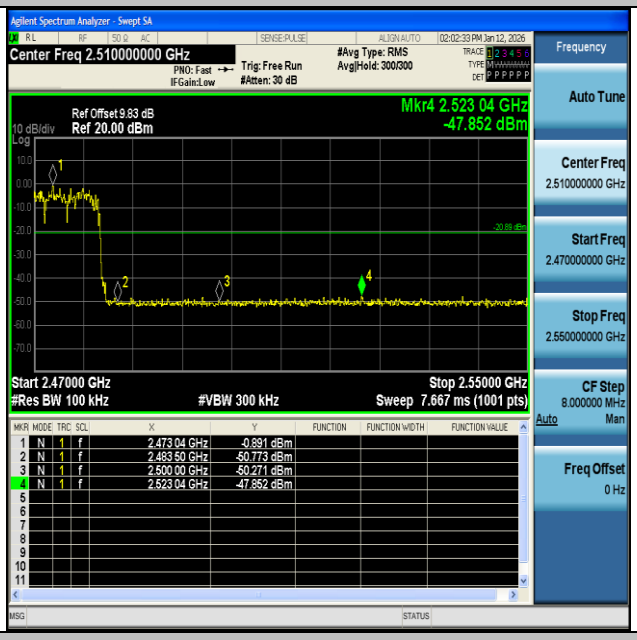
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

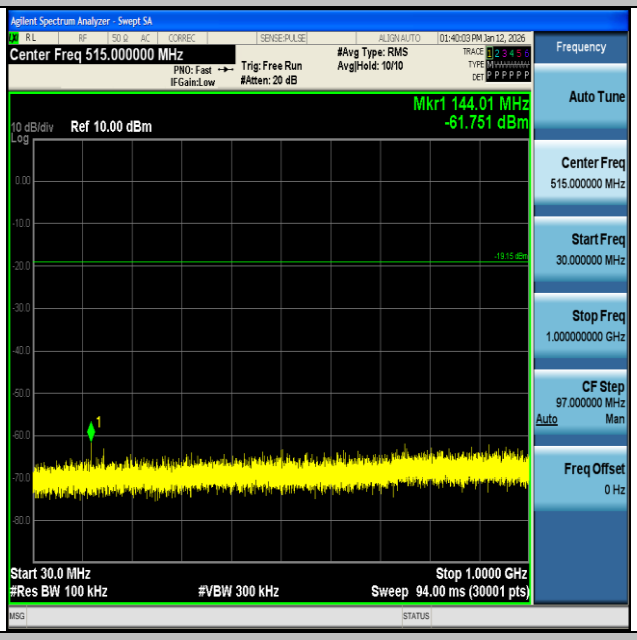
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.85	0.85	---	PASS
DH5	Ant1	2402	30~1000	0.85	-61.75	≤-19.15	PASS
DH5	Ant1	2402	1000~40000	0.85	-35.17	≤-19.15	PASS
DH5	Ant1	2441	0~Reference	1.34	1.34	---	PASS
DH5	Ant1	2441	30~1000	1.34	-61.18	≤-18.66	PASS
DH5	Ant1	2441	1000~40000	1.34	-35.66	≤-18.66	PASS
DH5	Ant1	2480	0~Reference	1.32	1.32	---	PASS
DH5	Ant1	2480	30~1000	1.32	-62.01	≤-18.68	PASS
DH5	Ant1	2480	1000~40000	1.32	-36.57	≤-18.68	PASS
2DH5	Ant1	2402	0~Reference	-2.48	-2.48	---	PASS
2DH5	Ant1	2402	30~1000	-2.48	-60.53	≤-22.48	PASS
2DH5	Ant1	2402	1000~40000	-2.48	-35.03	≤-22.48	PASS
2DH5	Ant1	2441	0~Reference	-1.83	-1.83	---	PASS
2DH5	Ant1	2441	30~1000	-1.83	-60.3	≤-21.83	PASS
2DH5	Ant1	2441	1000~40000	-1.83	-36.6	≤-21.83	PASS
2DH5	Ant1	2480	0~Reference	1.71	1.71	---	PASS
2DH5	Ant1	2480	30~1000	1.71	-59.88	≤-18.29	PASS
2DH5	Ant1	2480	1000~40000	1.71	-36.83	≤-18.29	PASS

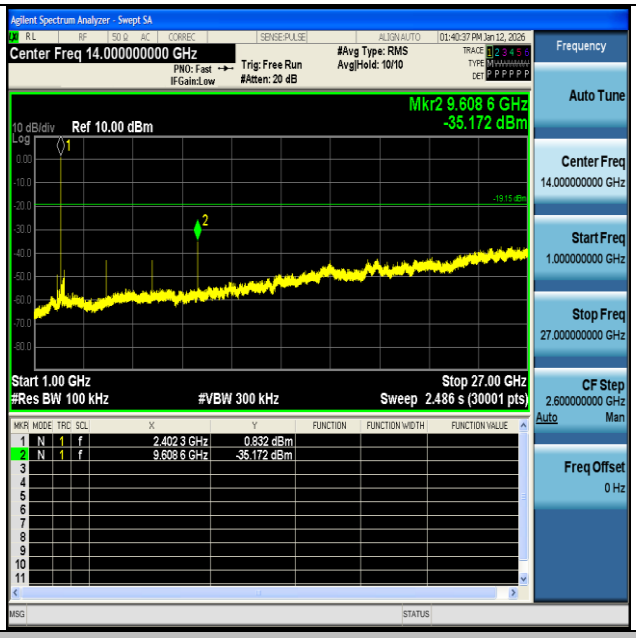
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

DH5-Ant1-2402-0~Reference-PASS

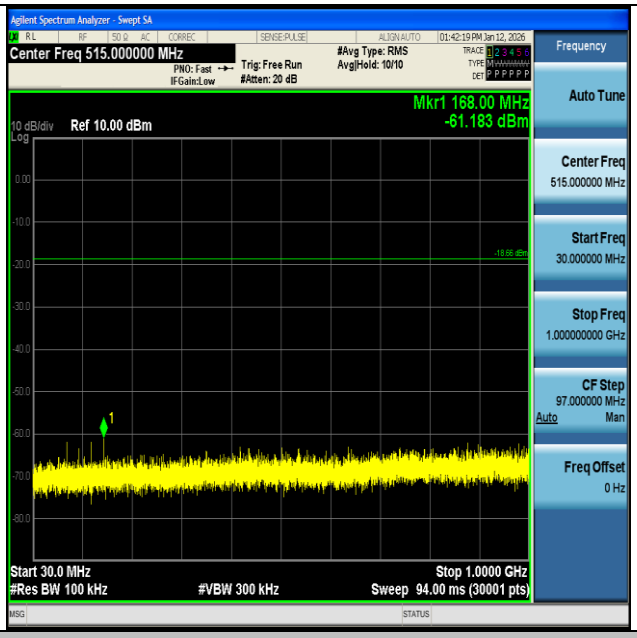


DH5-Ant1-2402-30~1000-PASS

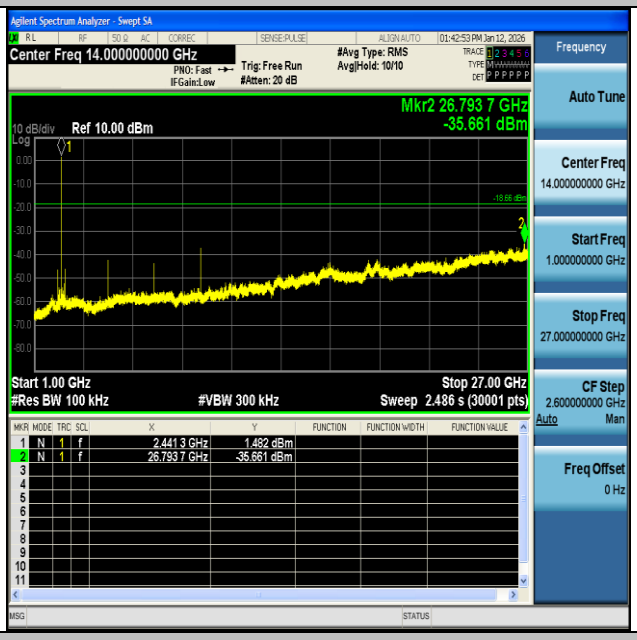


DH5-Ant1-2402-1000~40000-PASS

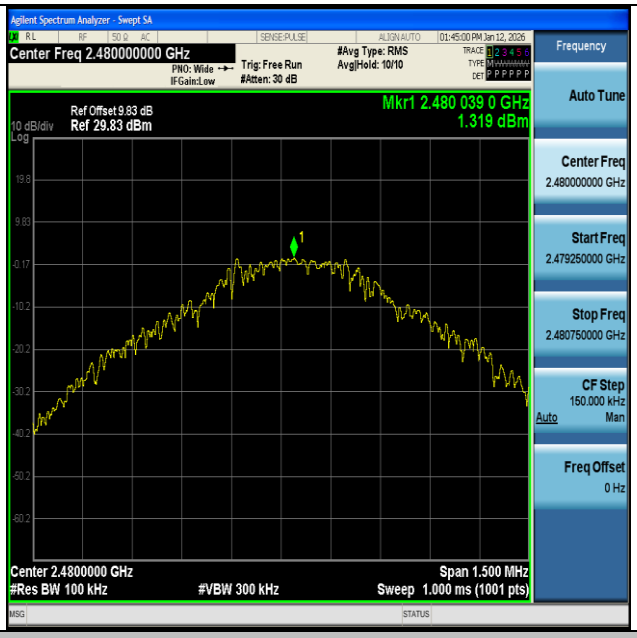
DH5-Ant1-2441-0~Reference-PASS



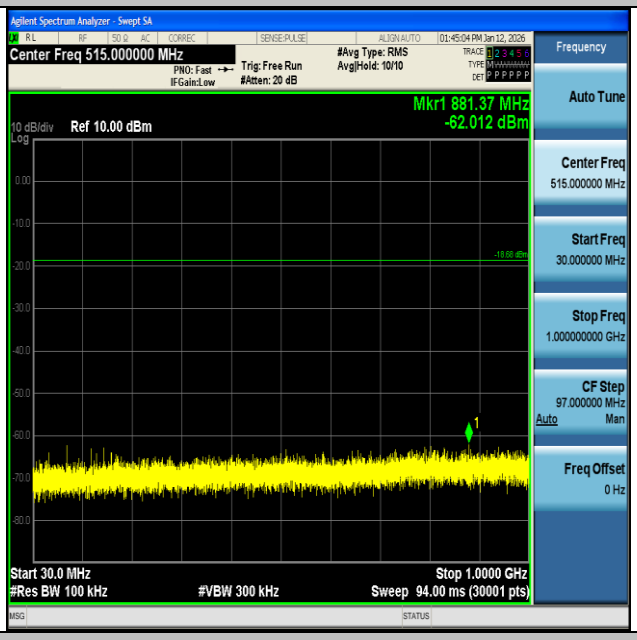
DH5-Ant1-2441-30~1000-PASS



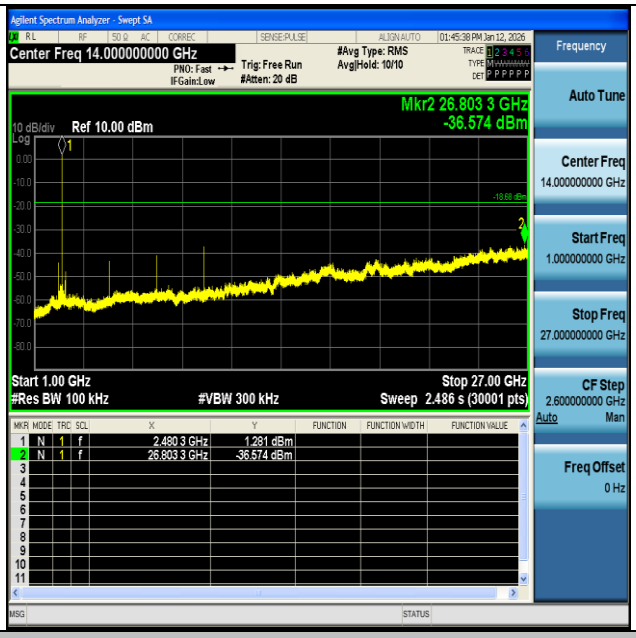
DH5-Ant1-2441-1000~40000-PASS



DH5-Ant1-2480-0~Reference-PASS

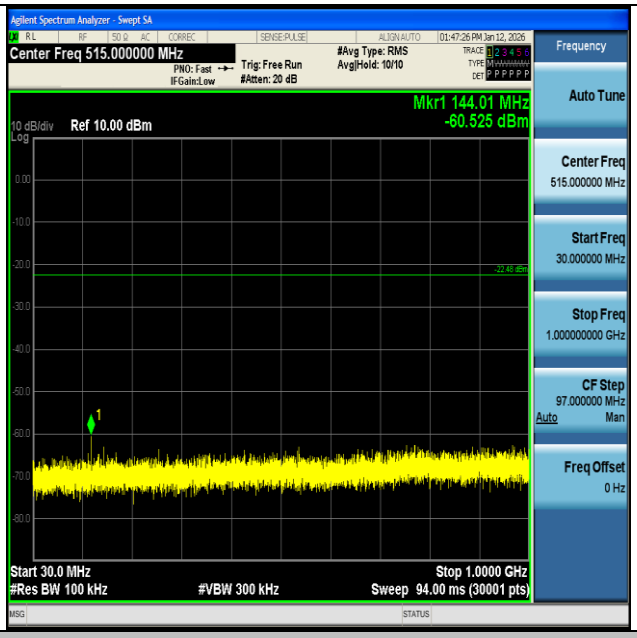


DH5-Ant1-2480-30~1000-PASS

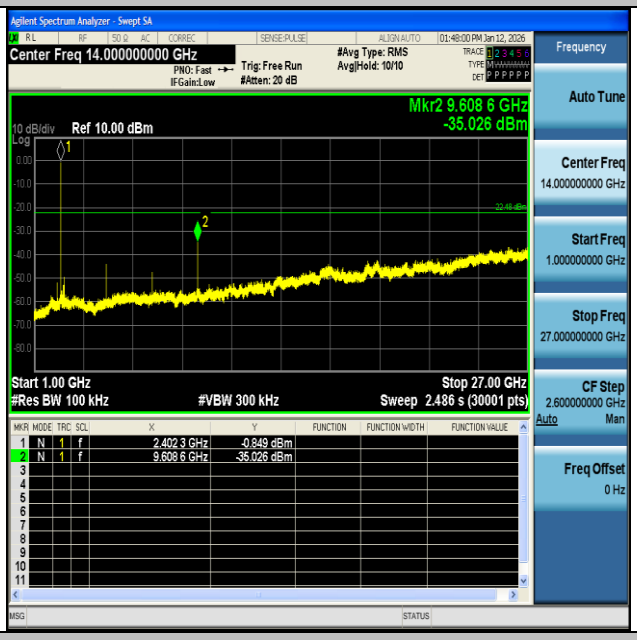


DH5-Ant1-2480-1000~40000-PASS

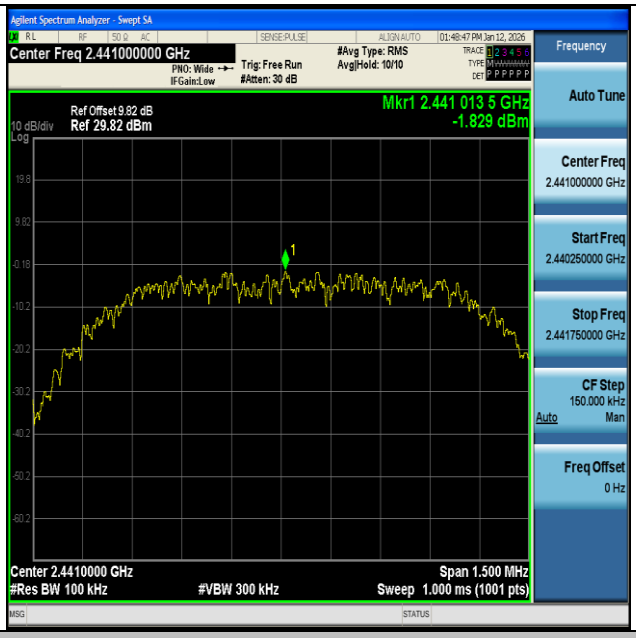
2DH5-Ant1-2402-0~Reference-PASS



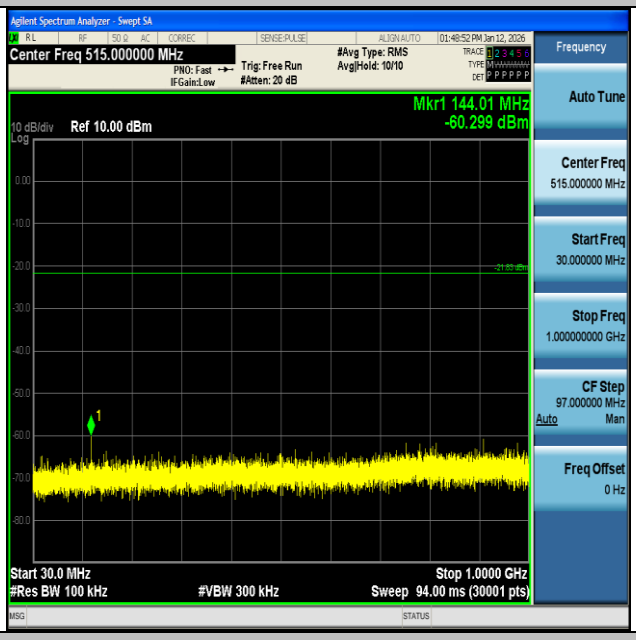
2DH5-Ant1-2402-30~1000-PASS



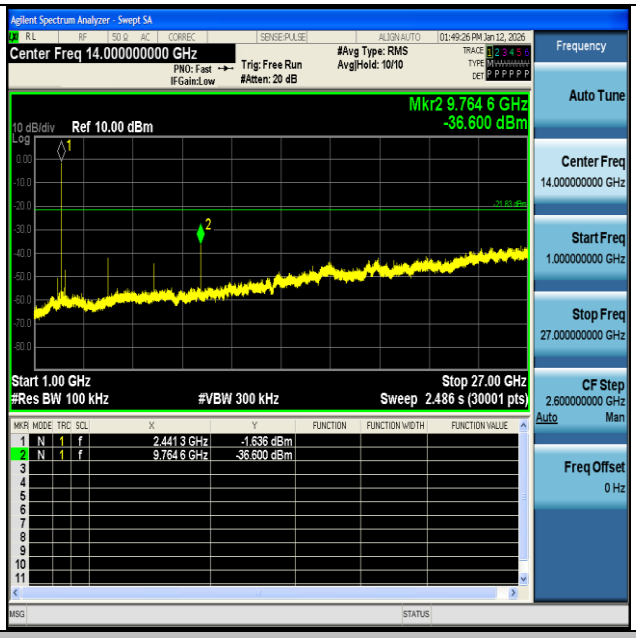
2DH5-Ant1-2402-1000~40000-PASS



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

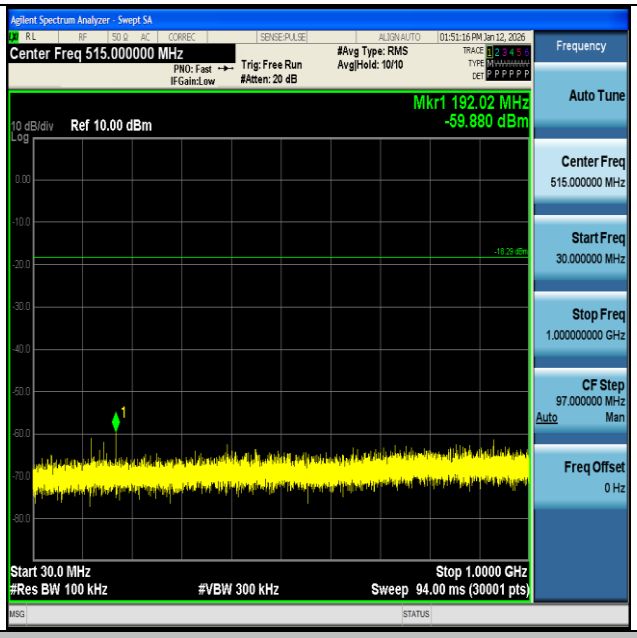


2DH5-Ant1-2441-30~1000-PASS



2DH5-Ant1-2441-1000~40000-PASS

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



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

2DH5-Ant1-2480-1000~40000-PASS

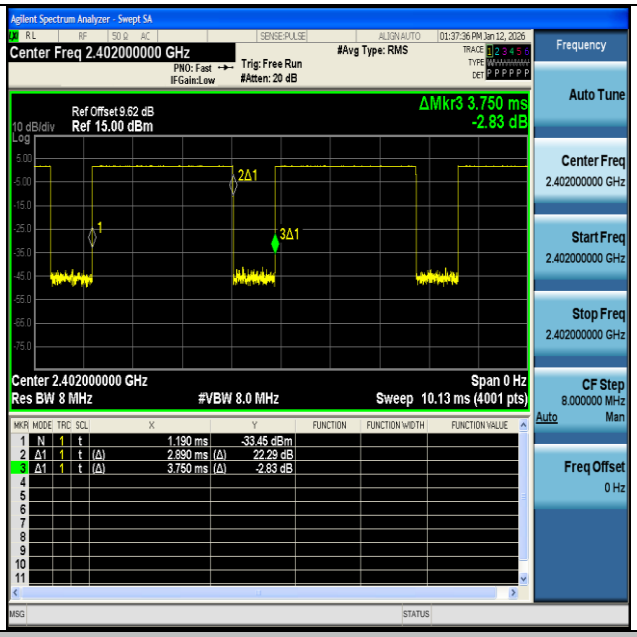
Appendix I: Duty Cycle

Test Result

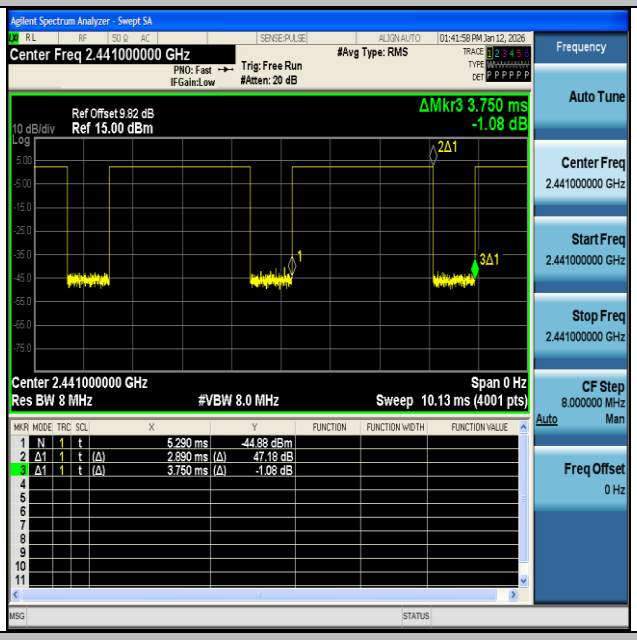
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

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

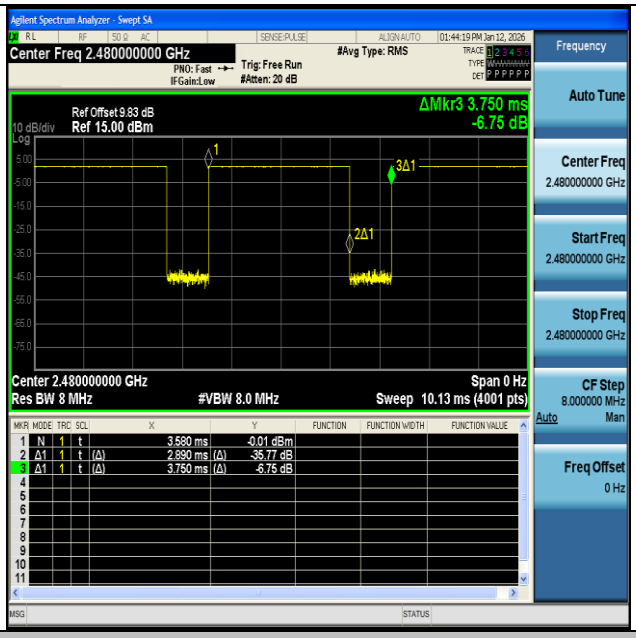
Test Graphs



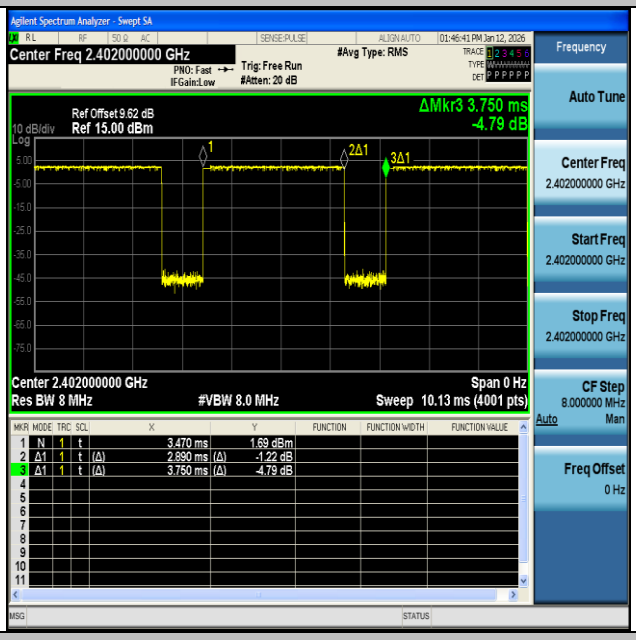
NTNV-DH5-Ant1-2402



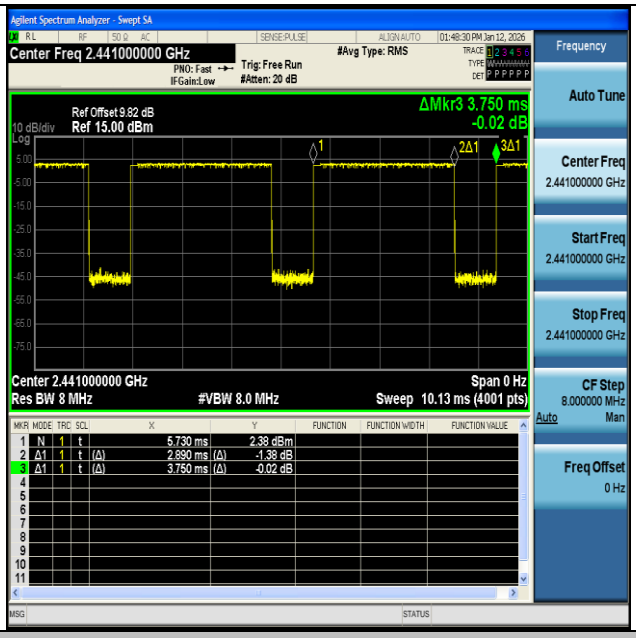
NTNV-DH5-Ant1-2441



NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



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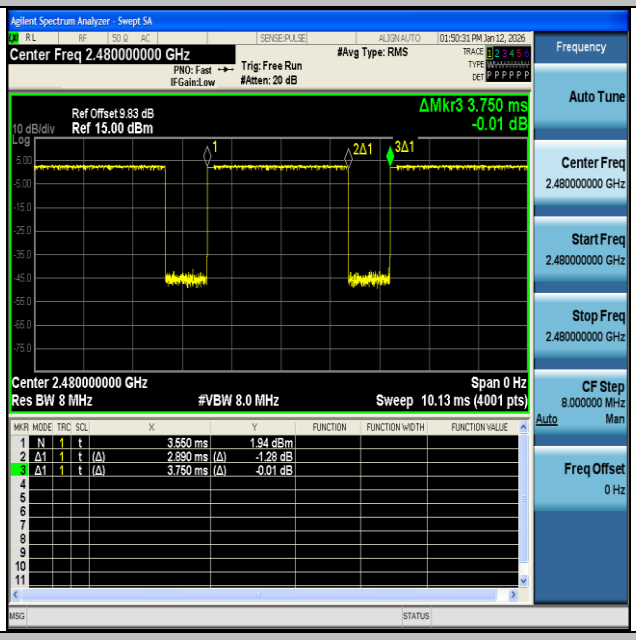

NTNV-2DH5-Ant1-2480