Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Radio

Test Model: Joaquim

Environmental Conditions

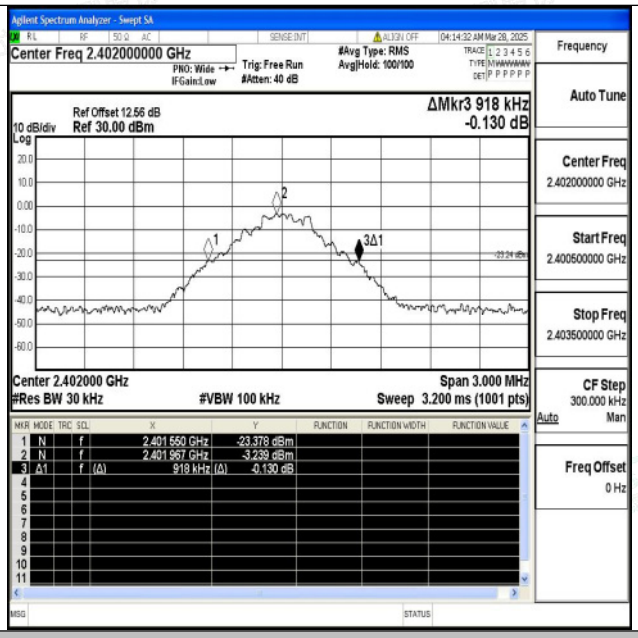
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng

A.1 20dB Emission Bandwidth

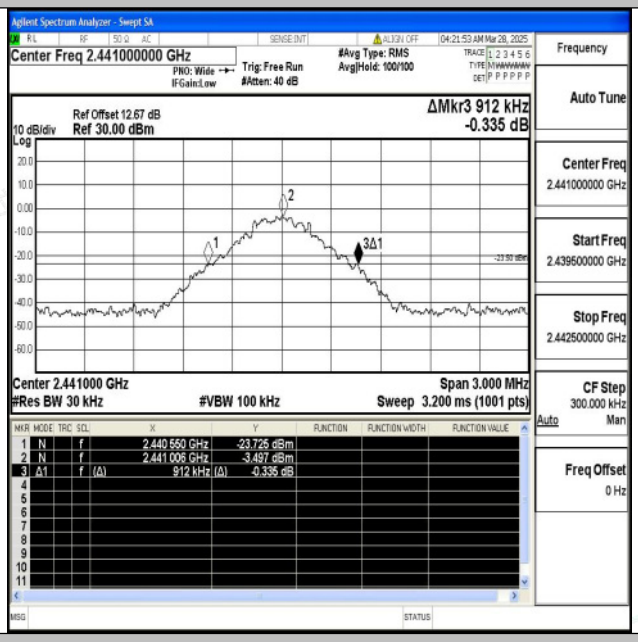
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.918	2401.550	2402.468	---	---
DH5	Ant1	2441	0.912	2440.550	2441.462	---	---
DH5	Ant1	2480	0.843	2479.562	2480.405	---	---
2DH5	Ant1	2402	1.281	2401.358	2402.639	---	---
2DH5	Ant1	2441	1.290	2440.355	2441.645	---	---
2DH5	Ant1	2480	1.287	2479.358	2480.645	---	---
3DH5	Ant1	2402	1.320	2401.334	2402.654	---	---
3DH5	Ant1	2441	1.311	2440.337	2441.648	---	---
3DH5	Ant1	2480	1.299	2479.343	2480.642	---	---

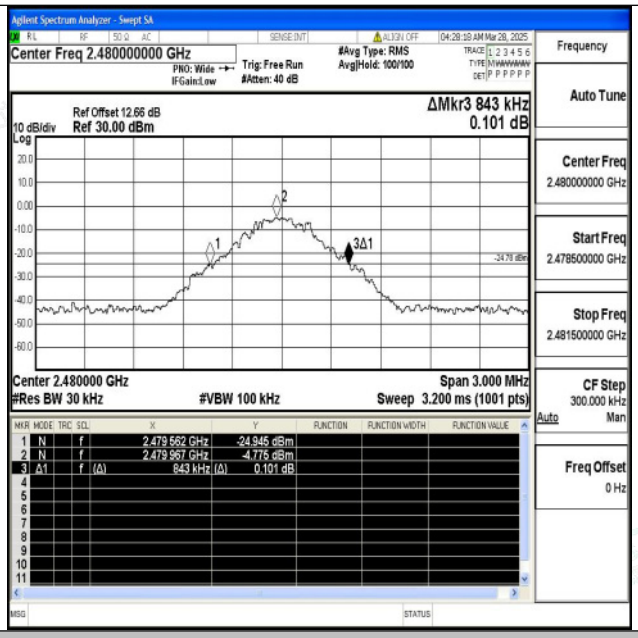
Test Graphs



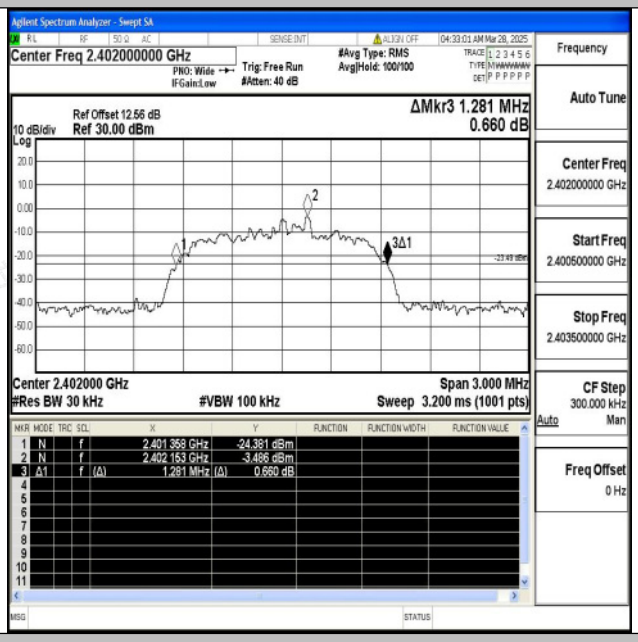
DH5-Ant1-2402



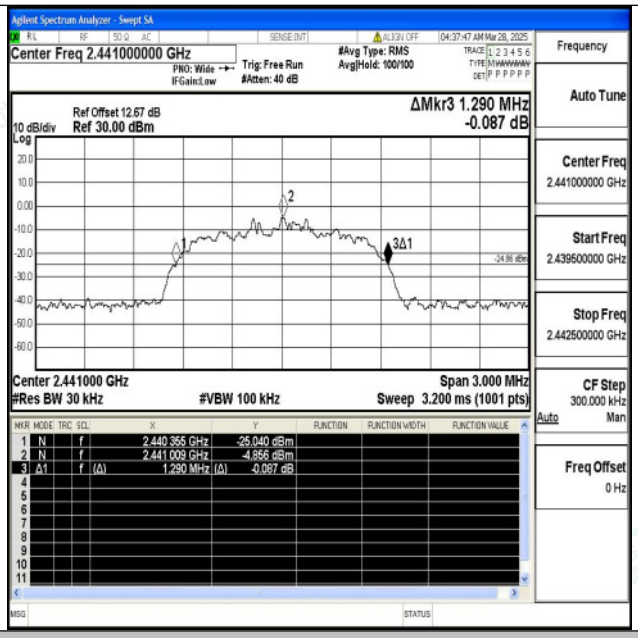
DH5-Ant1-2441



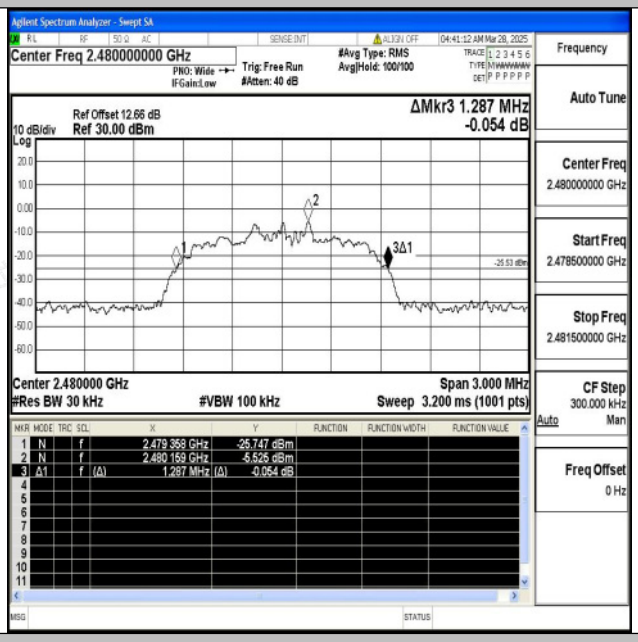
DH5-Ant1-2480



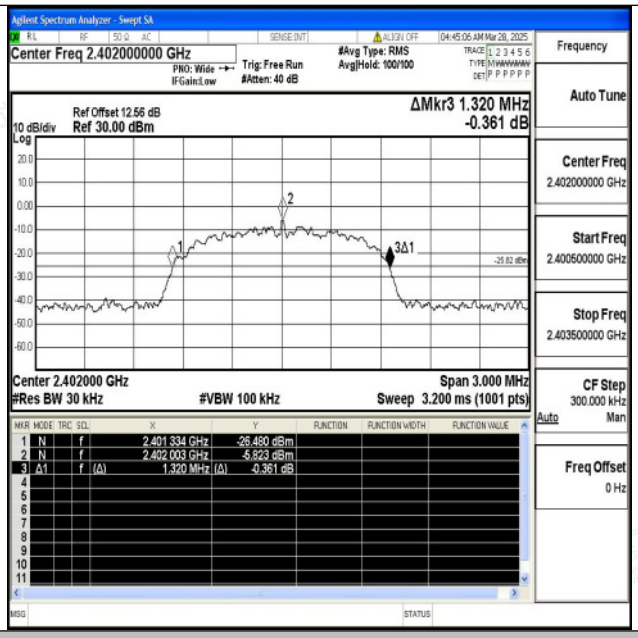
2DH5-Ant1-2402



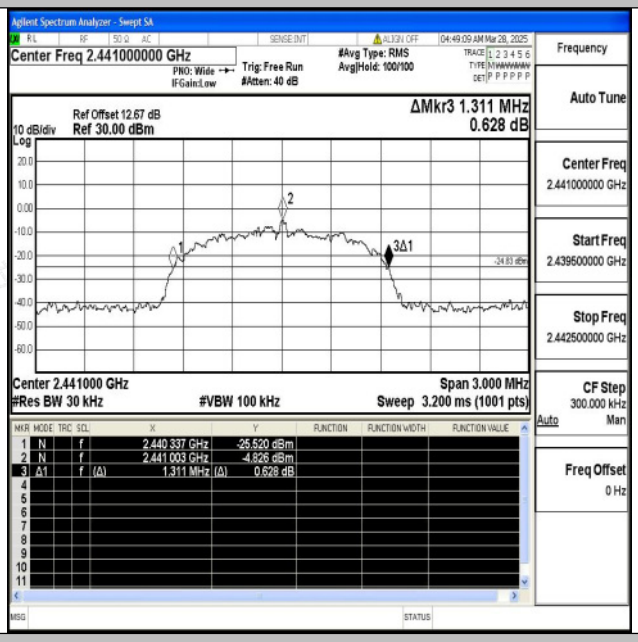
2DH5-Ant1-2441



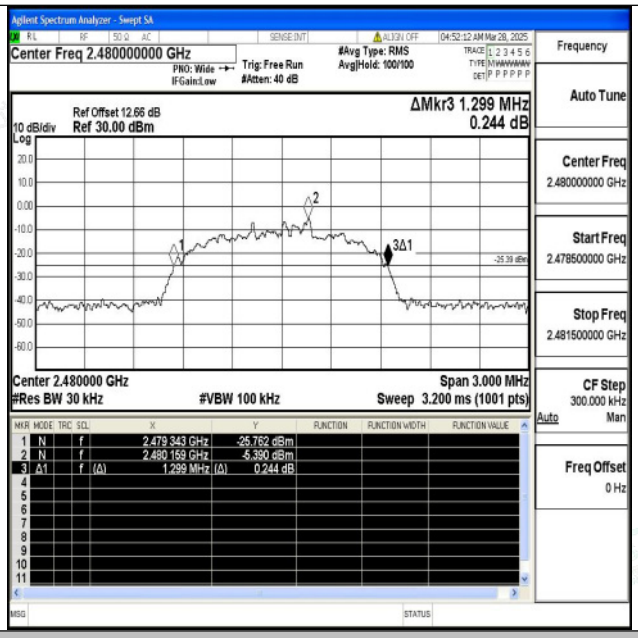
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



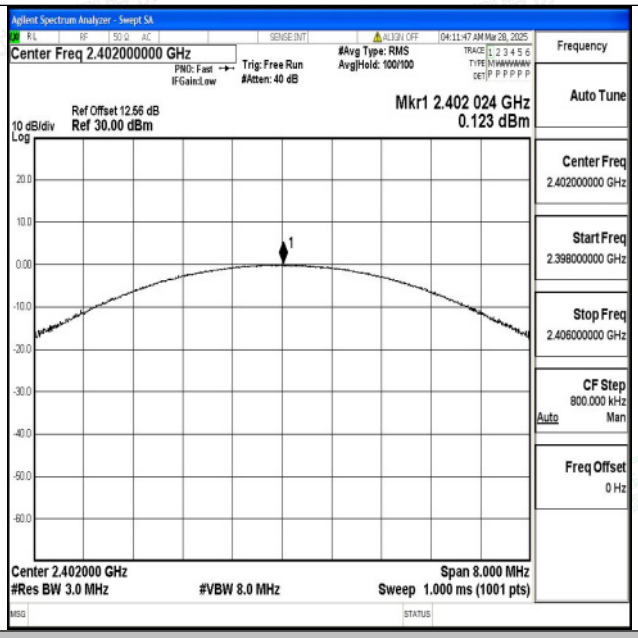
3DH5-Ant1-2480

A.2 Maximum conducted output power

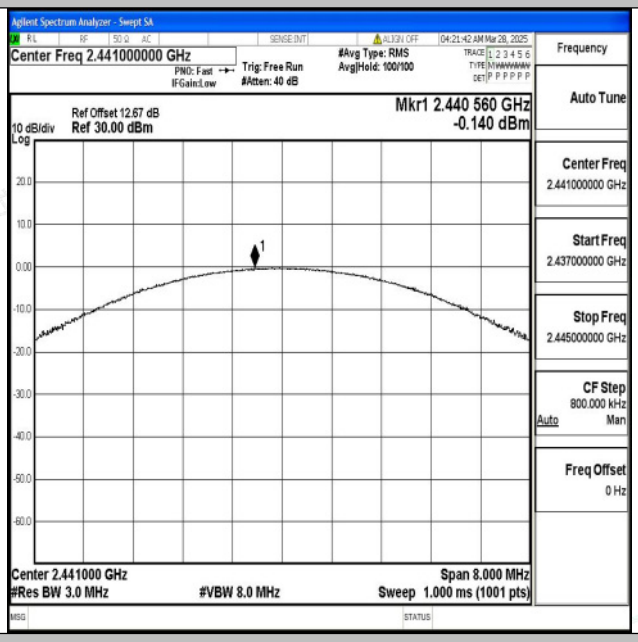
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.12	21	Pass
DH5	Ant1	2441	-0.14	21	Pass
DH5	Ant1	2480	-1.35	21	Pass
2DH5	Ant1	2402	0.07	21	Pass
2DH5	Ant1	2441	-0.10	21	Pass
2DH5	Ant1	2480	-1.50	21	Pass
3DH5	Ant1	2402	0.23	21	Pass
3DH5	Ant1	2441	-0.19	21	Pass
3DH5	Ant1	2480	-1.37	21	Pass

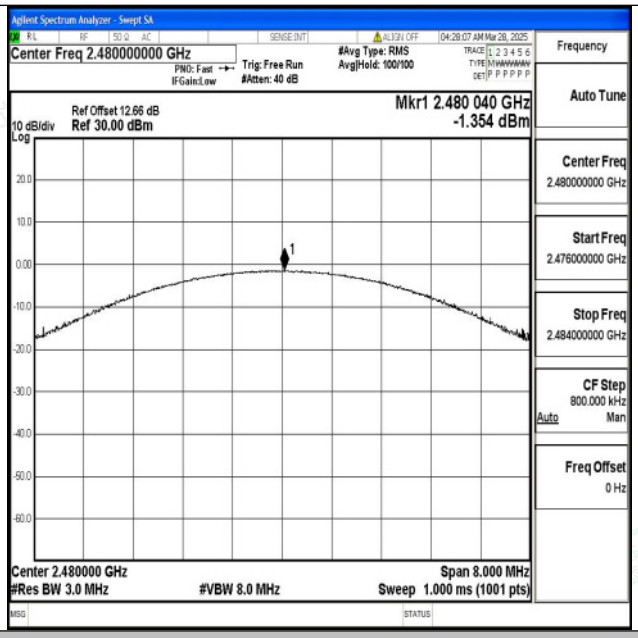
Test Graphs



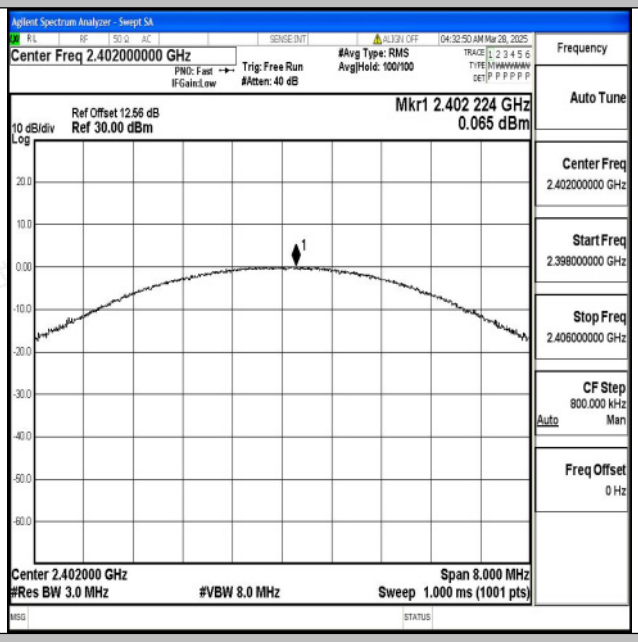
DH5-Ant1-2402-PASS



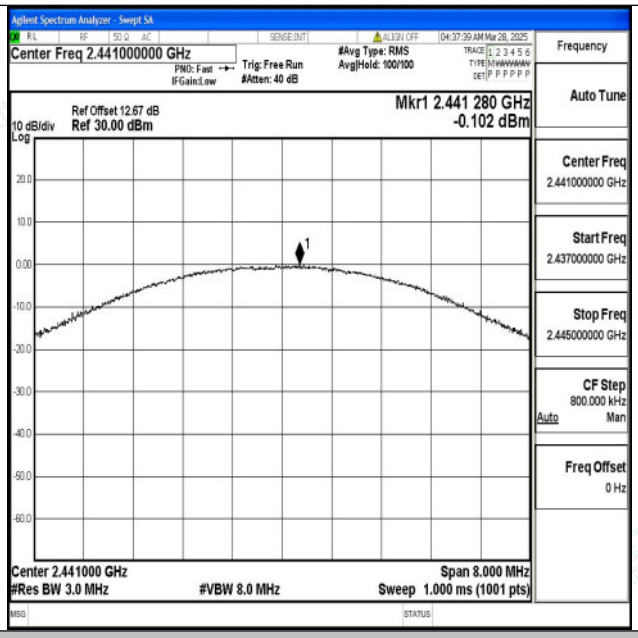
DH5-Ant1-2441-PASS



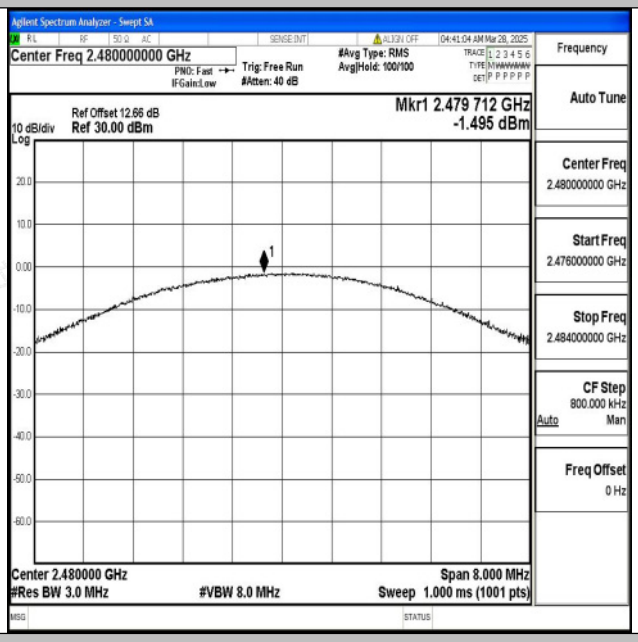
DH5-Ant1-2480-PASS



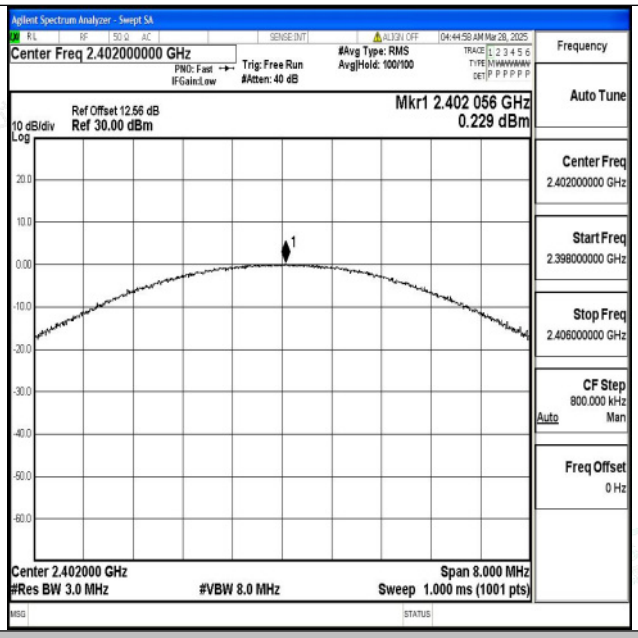
2DH5-Ant1-2402-PASS



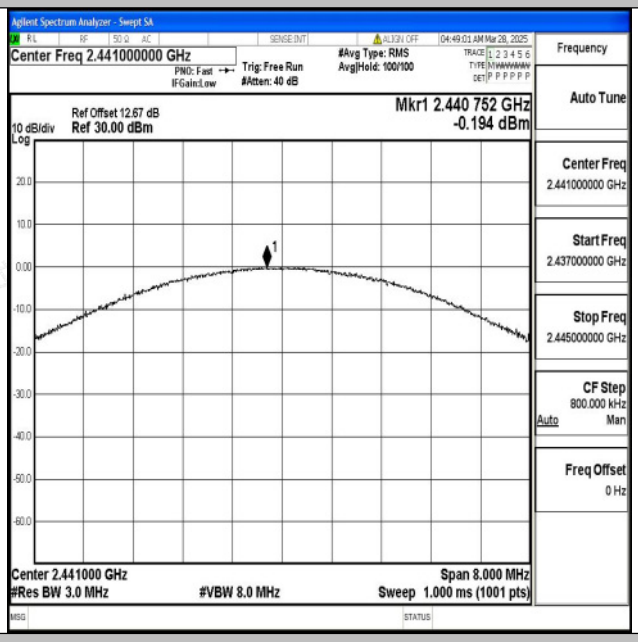
2DH5-Ant1-2441-PASS



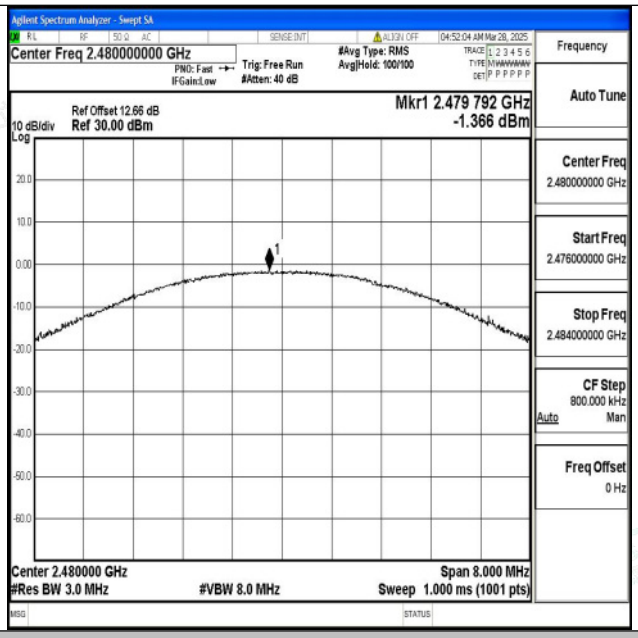
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



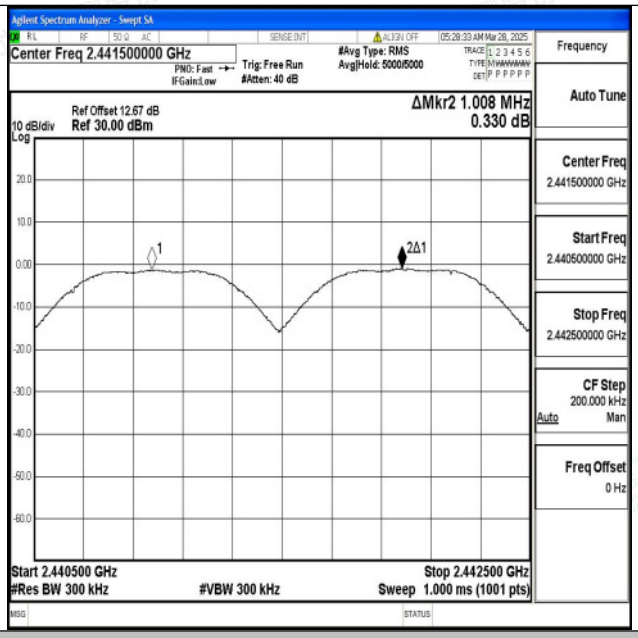
3DH5-Ant1-2480-PASS

A.3 Carrier frequency separation

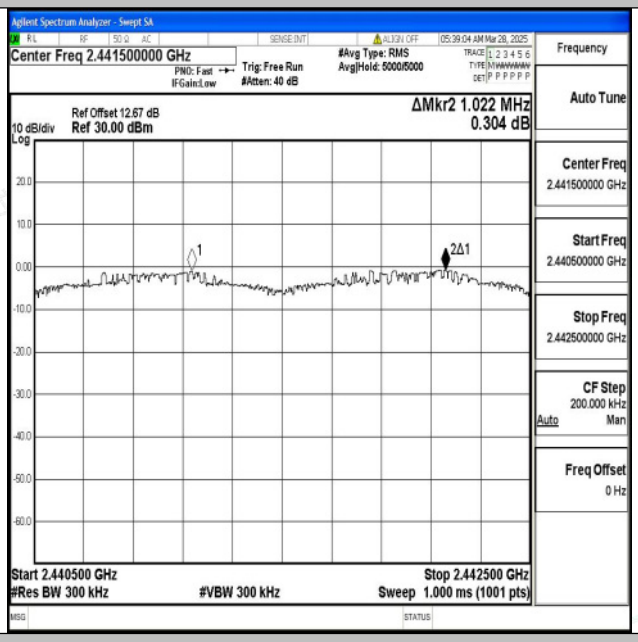
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	0.612	PASS
2DH5	Ant1	Hop	1.022	0.860	PASS
3DH5	Ant1	Hop	0.984	0.880	PASS

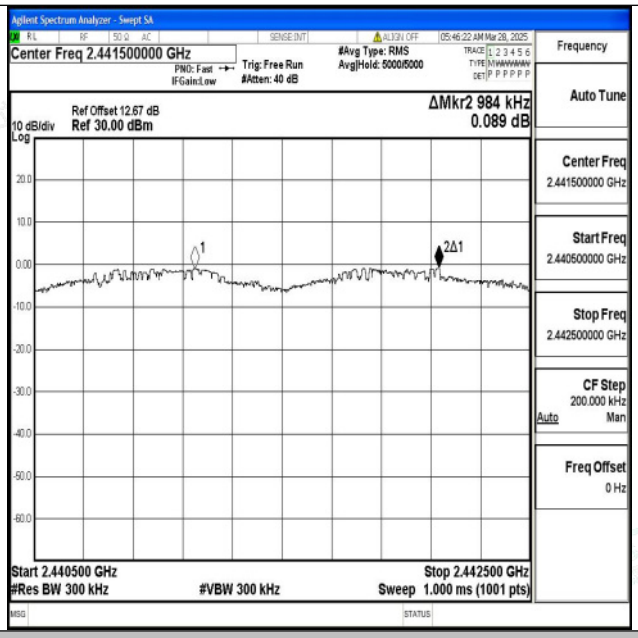
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



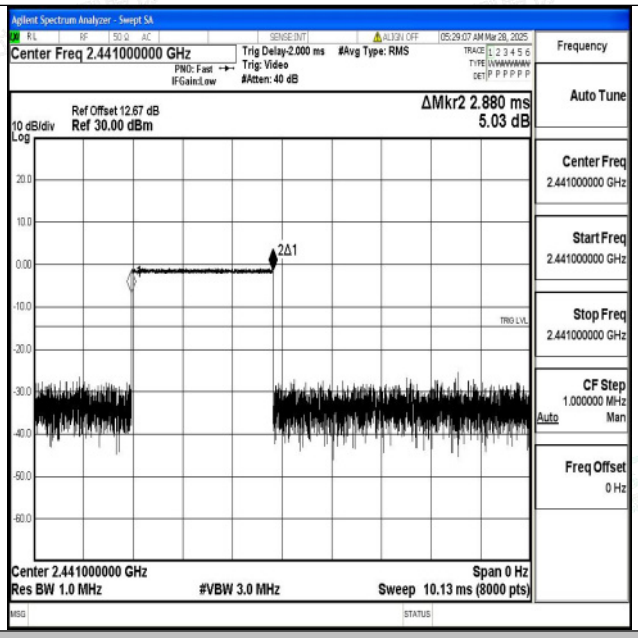
3DH5-Ant1-Hop-PASS

A.4 Time of occupancy

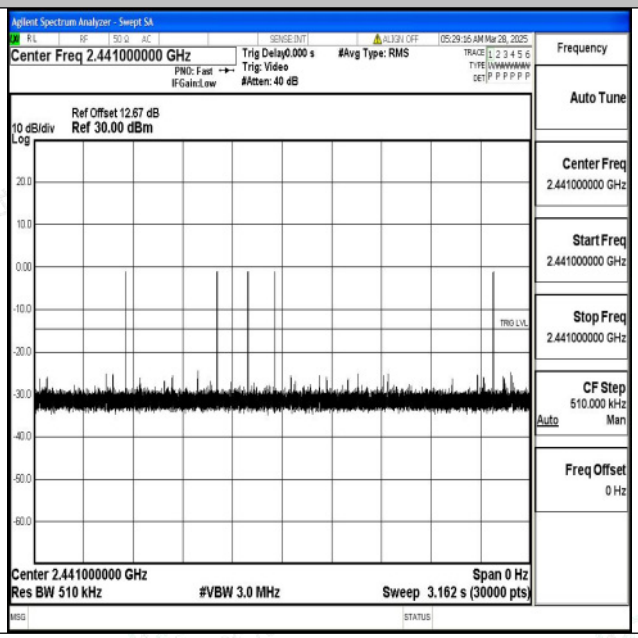
Test Result

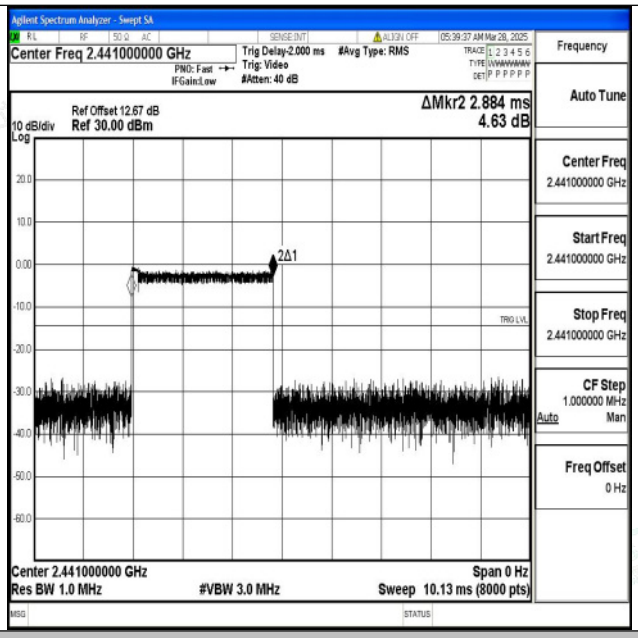
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	60	0.173	≤0.4	PASS
2DH5	Ant1	Hop	2.884	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS

Test Graphs

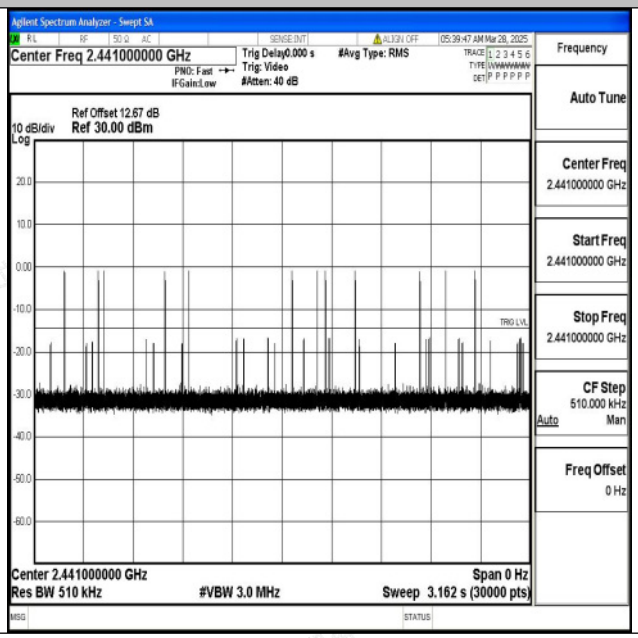


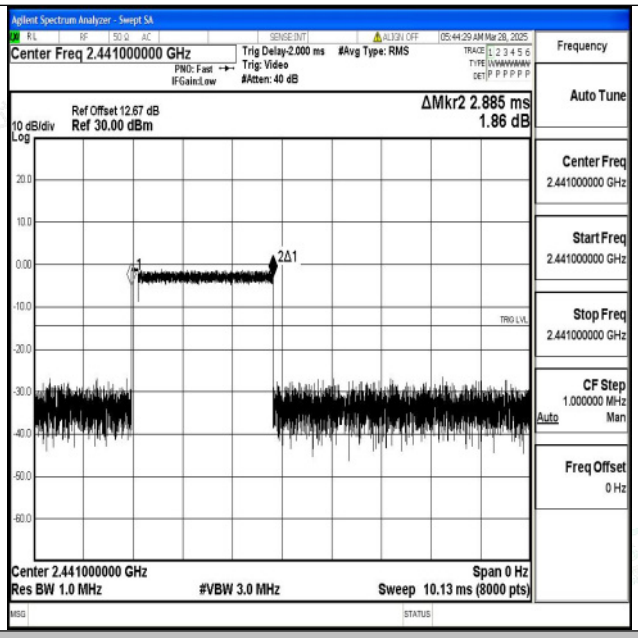
DH5-Ant1-Hop-PASS



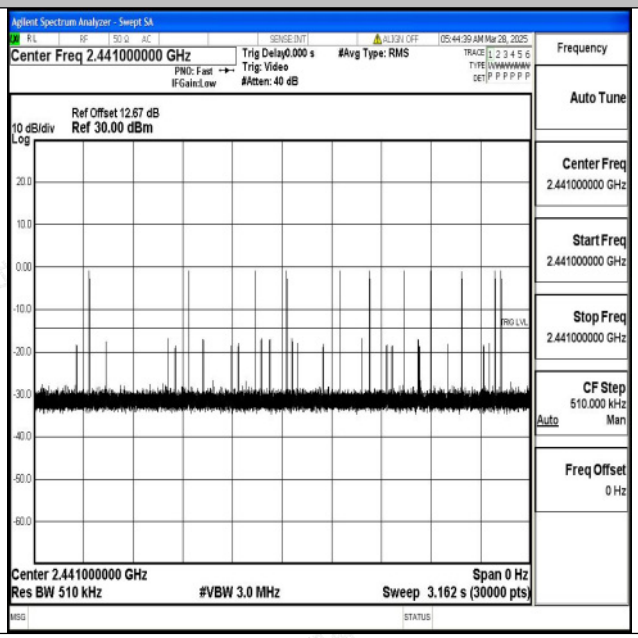


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

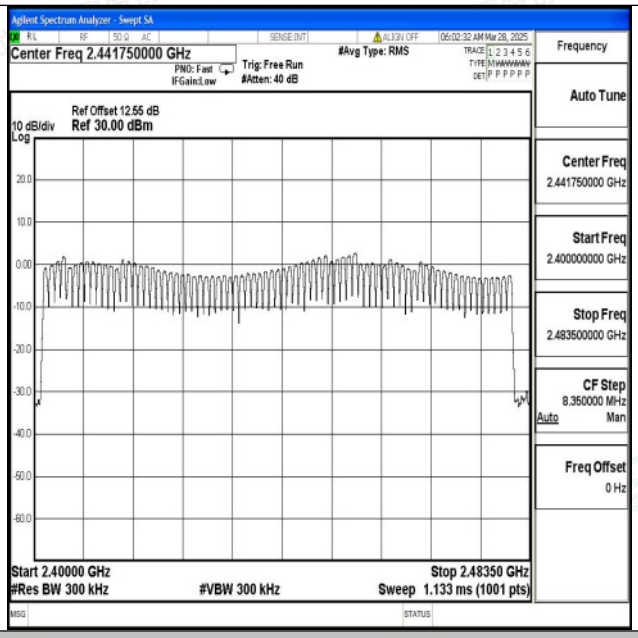


A.5 Number of hopping channels

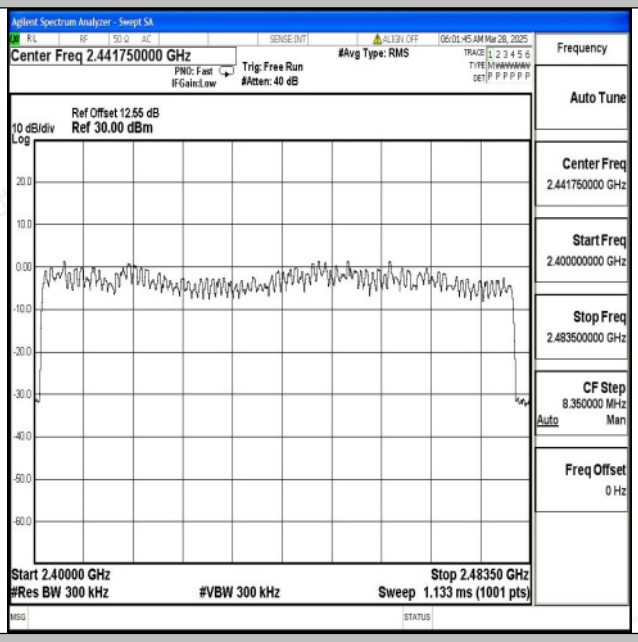
Test Result

TestMode	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

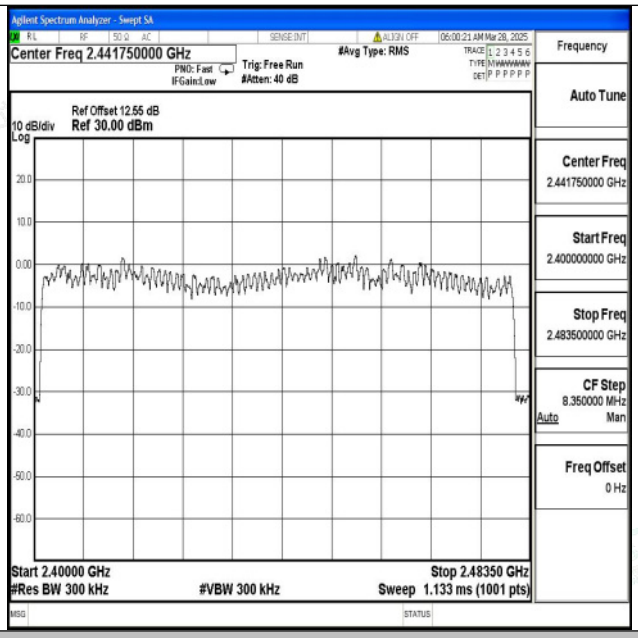
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



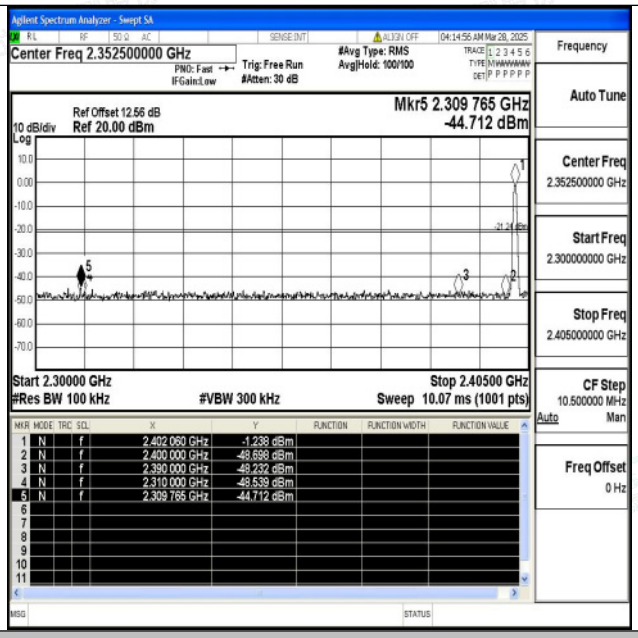
3DH5-Ant1-Hop-PASS

A.6 Band edge measurements

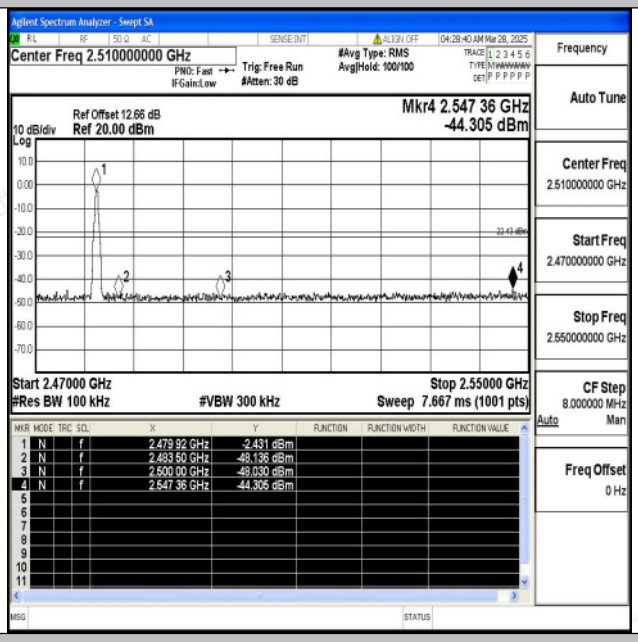
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.24	-44.71	≤-21.24	PASS
DH5	Ant1	High	2480	-2.43	-44.31	≤-22.43	PASS
DH5	Ant1	Low	Hop_2402	-2.16	-44.25	≤-22.16	PASS
DH5	Ant1	High	Hop_2480	-2.56	-43.9	≤-22.56	PASS
2DH5	Ant1	Low	2402	-4.51	-45.11	≤-24.51	PASS
2DH5	Ant1	High	2480	-2.58	-43.97	≤-22.58	PASS
2DH5	Ant1	Low	Hop_2402	-7.00	-45.48	≤-27	PASS
2DH5	Ant1	High	Hop_2480	-3.08	-43.64	≤-23.08	PASS
3DH5	Ant1	Low	2402	-0.60	-45.81	≤-20.6	PASS
3DH5	Ant1	High	2480	-2.68	-44.31	≤-22.68	PASS
3DH5	Ant1	Low	Hop_2402	-3.04	-45.15	≤-23.04	PASS
3DH5	Ant1	High	Hop_2480	-2.13	-43.91	≤-22.13	PASS

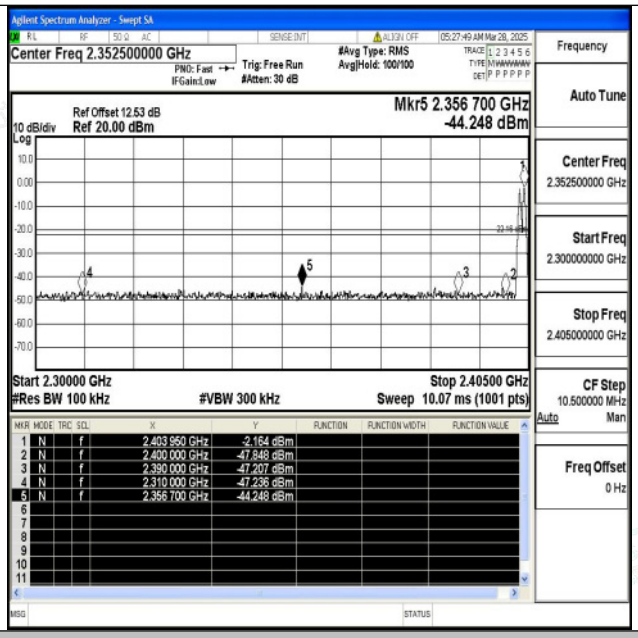
Test Graphs



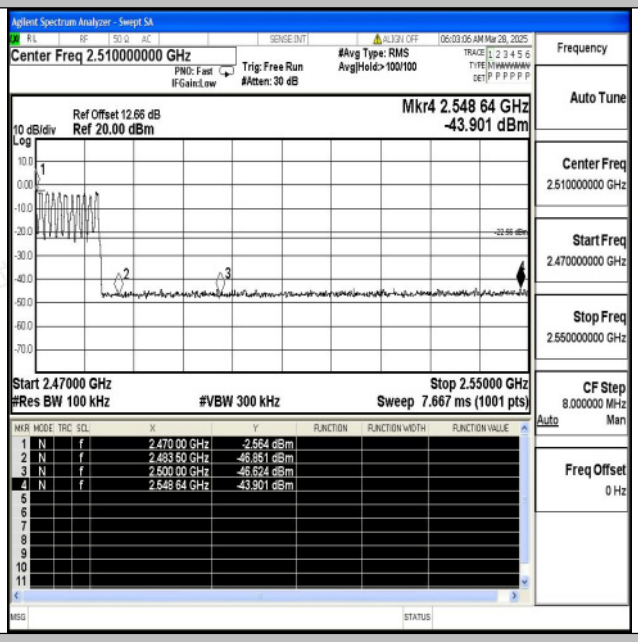
DH5-Ant1-2402-PASS



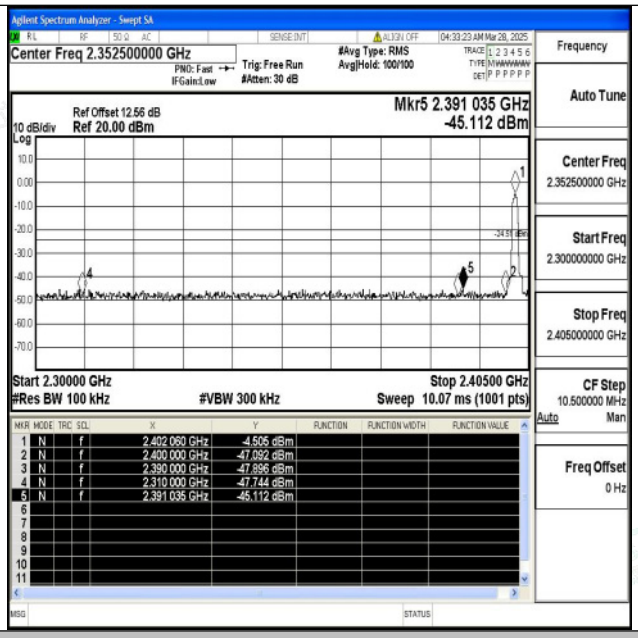
DH5-Ant1-2480-PASS



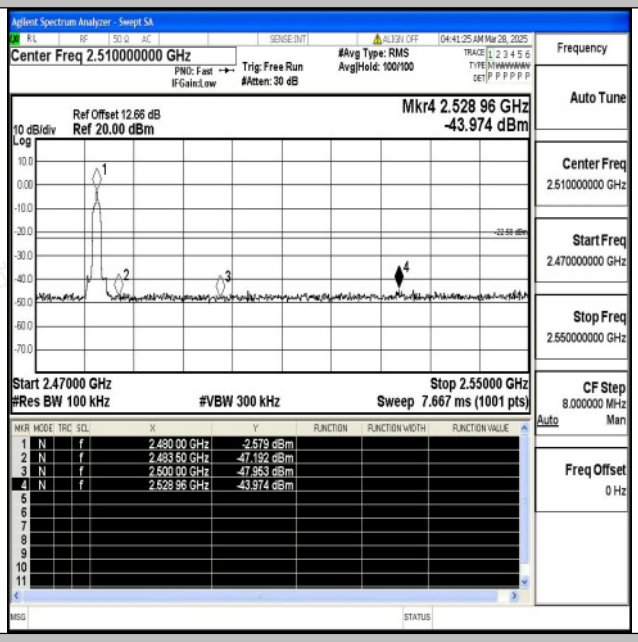
DH5-Ant1-Hop_2402-PASS



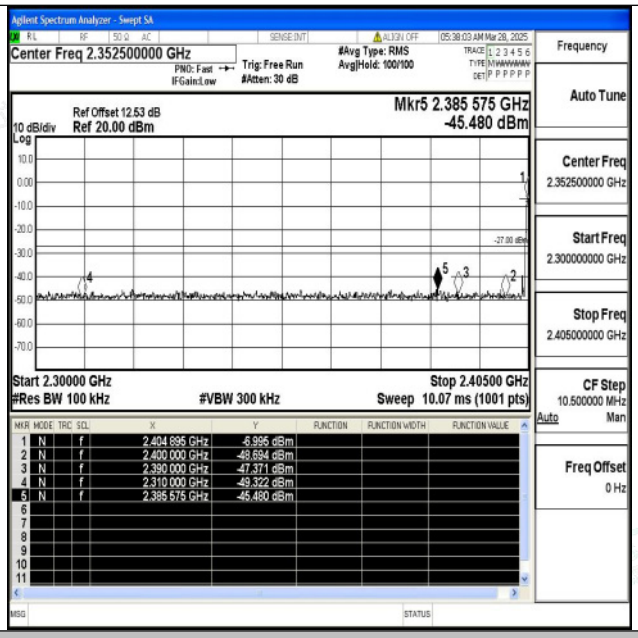
DH5-Ant1-Hop_2480-PASS



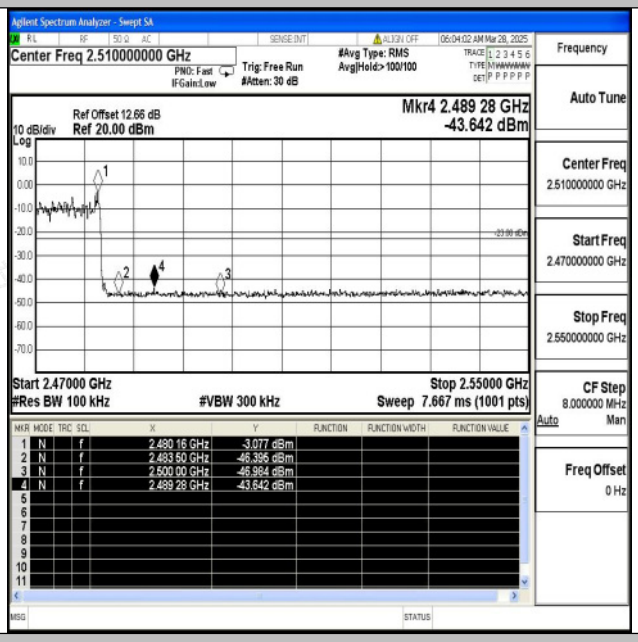
2DH5-Ant1-2402-PASS



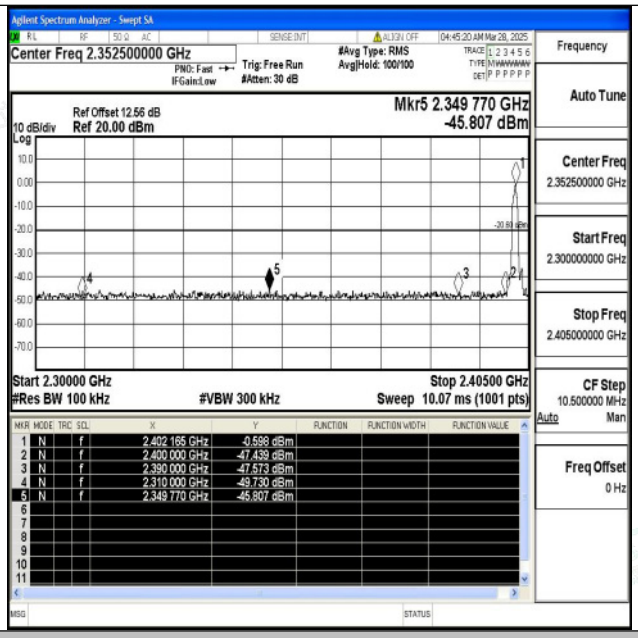
2DH5-Ant1-2480-PASS



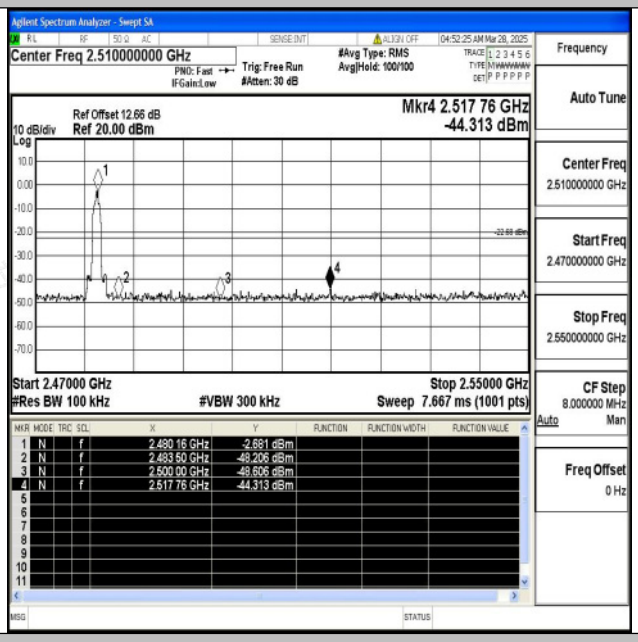
2DH5-Ant1-Hop_2402-PASS



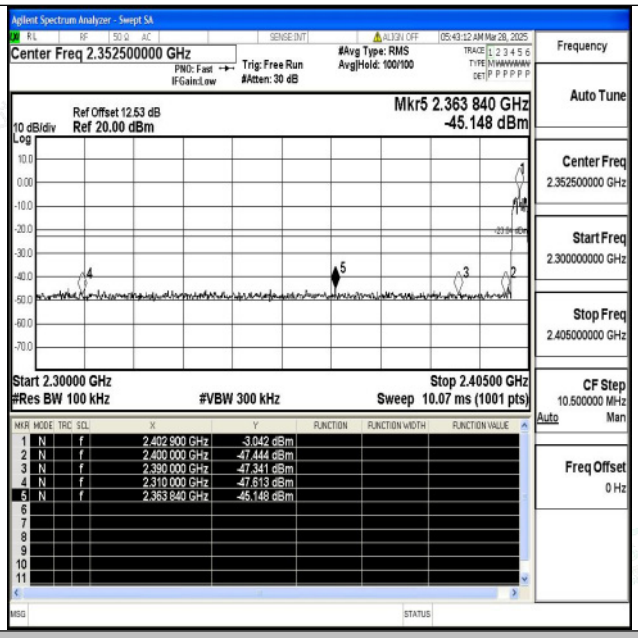
2DH5-Ant1-Hop_2480-PASS



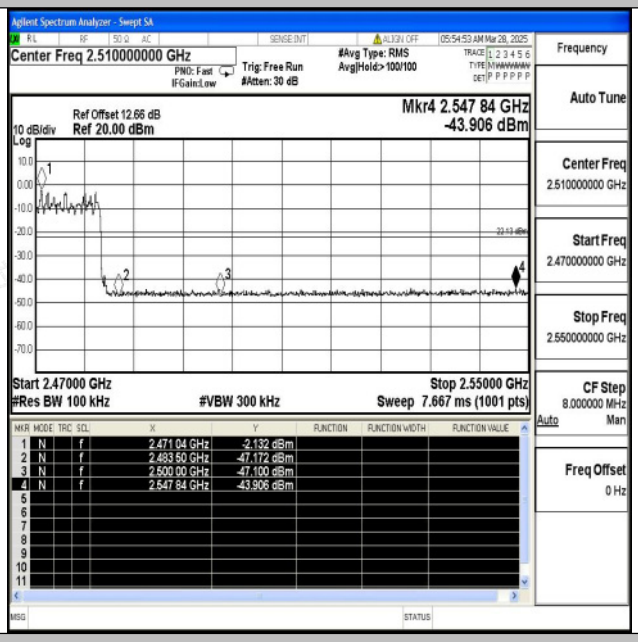
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



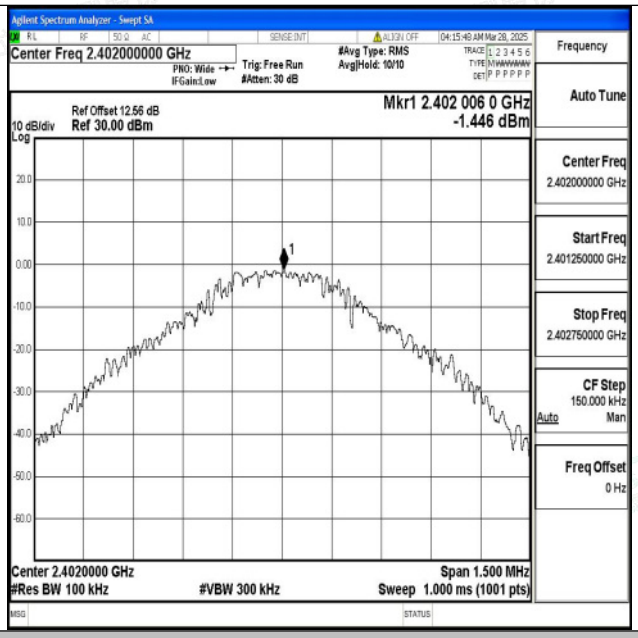
3DH5-Ant1-Hop_2480-PASS

A.7 Conducted Spurious Emission

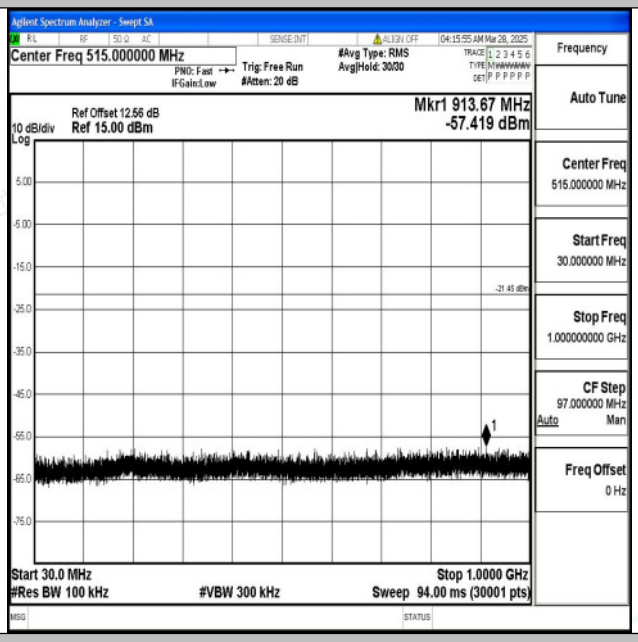
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.45	-1.45	---	PASS
DH5	Ant1	2402	30~1000	-1.45	-57.42	≤-21.45	PASS
DH5	Ant1	2402	1000~26500	-1.45	-41.46	≤-21.45	PASS
DH5	Ant1	2441	0~Reference	-1.75	-1.75	---	PASS
DH5	Ant1	2441	30~1000	-1.75	-56.72	≤-21.75	PASS
DH5	Ant1	2441	1000~26500	-1.75	-40.62	≤-21.75	PASS
DH5	Ant1	2480	0~Reference	-3.02	-3.02	---	PASS
DH5	Ant1	2480	30~1000	-3.02	-56.55	≤-23.02	PASS
DH5	Ant1	2480	1000~26500	-3.02	-41.88	≤-23.02	PASS
2DH5	Ant1	2402	0~Reference	-5.54	-5.54	---	PASS
2DH5	Ant1	2402	30~1000	-5.54	-57.08	≤-25.54	PASS
2DH5	Ant1	2402	1000~26500	-5.54	-41.23	≤-25.54	PASS
2DH5	Ant1	2441	0~Reference	-5.92	-5.92	---	PASS
2DH5	Ant1	2441	30~1000	-5.92	-57.05	≤-25.92	PASS
2DH5	Ant1	2441	1000~26500	-5.92	-41.1	≤-25.92	PASS
2DH5	Ant1	2480	0~Reference	-6.39	-6.39	---	PASS
2DH5	Ant1	2480	30~1000	-6.39	-56.49	≤-26.39	PASS
2DH5	Ant1	2480	1000~26500	-6.39	-40.93	≤-26.39	PASS
3DH5	Ant1	2402	0~Reference	-4.57	-4.57	---	PASS
3DH5	Ant1	2402	30~1000	-4.57	-57.13	≤-24.57	PASS
3DH5	Ant1	2402	1000~26500	-4.57	-41.48	≤-24.57	PASS
3DH5	Ant1	2441	0~Reference	-1.11	-1.11	---	PASS
3DH5	Ant1	2441	30~1000	-1.11	-56.69	≤-21.11	PASS
3DH5	Ant1	2441	1000~26500	-1.11	-40.83	≤-21.11	PASS
3DH5	Ant1	2480	0~Reference	-6.27	-6.27	---	PASS
3DH5	Ant1	2480	30~1000	-6.27	-56.7	≤-26.27	PASS
3DH5	Ant1	2480	1000~26500	-6.27	-41.48	≤-26.27	PASS

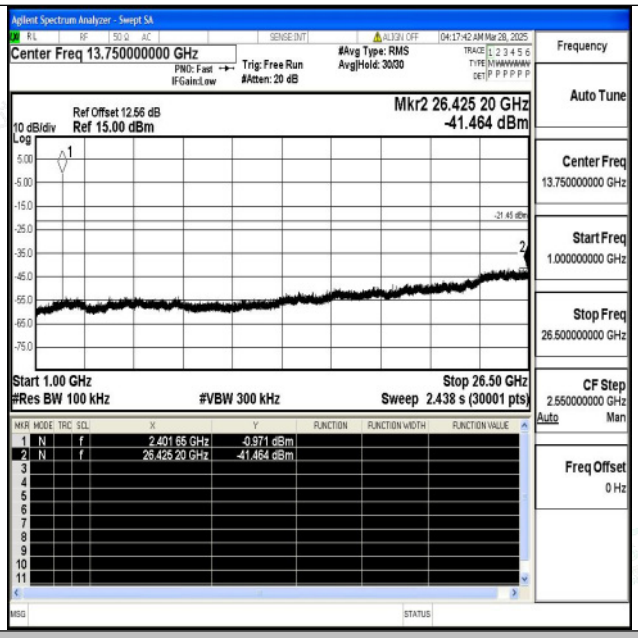
Test Graphs



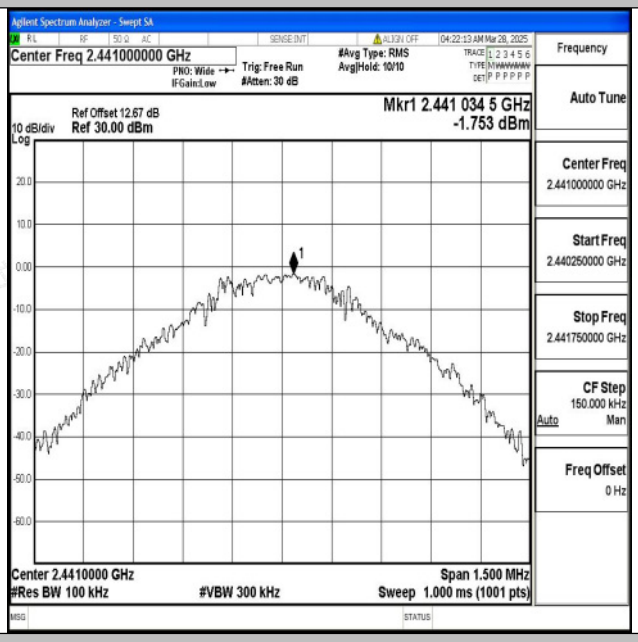
DH5-Ant1-2402-0~Reference-PASS



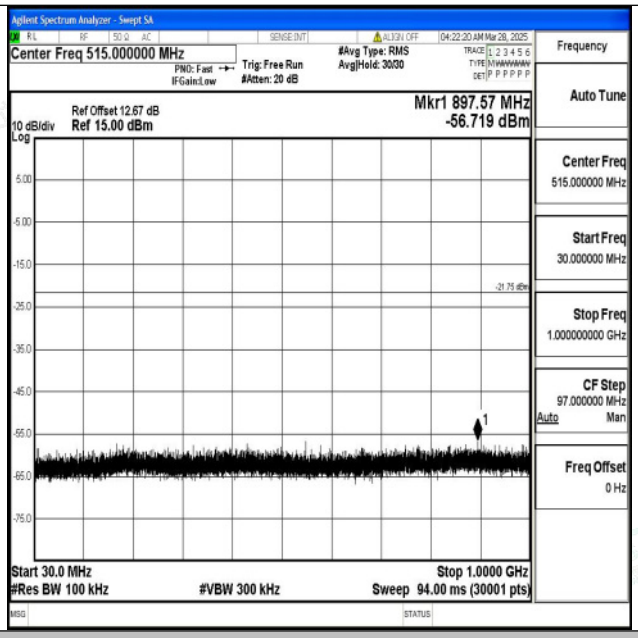
DH5-Ant1-2402-30~1000-PASS



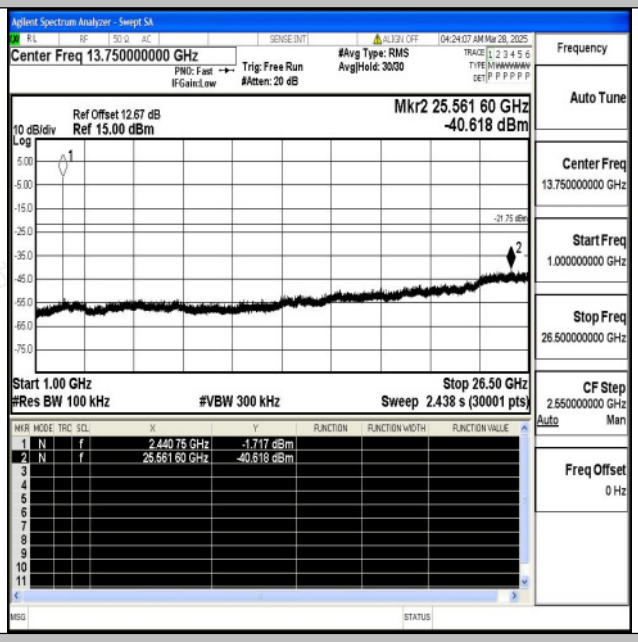
DH5-Ant1-2402-1000~26500-PASS



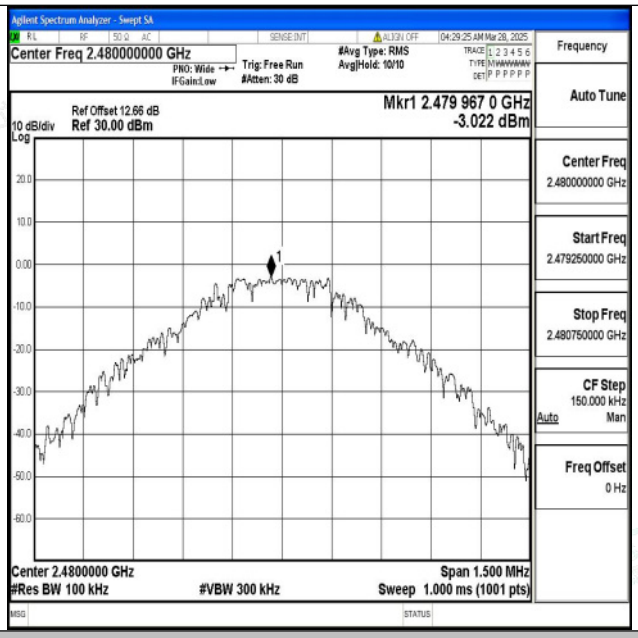
DH5-Ant1-2441-0~Reference-PASS



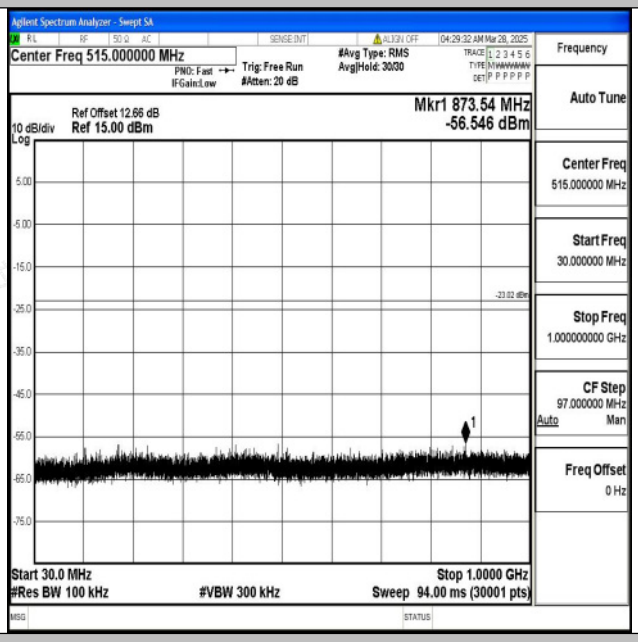
DH5-Ant1-2441-30~1000-PASS



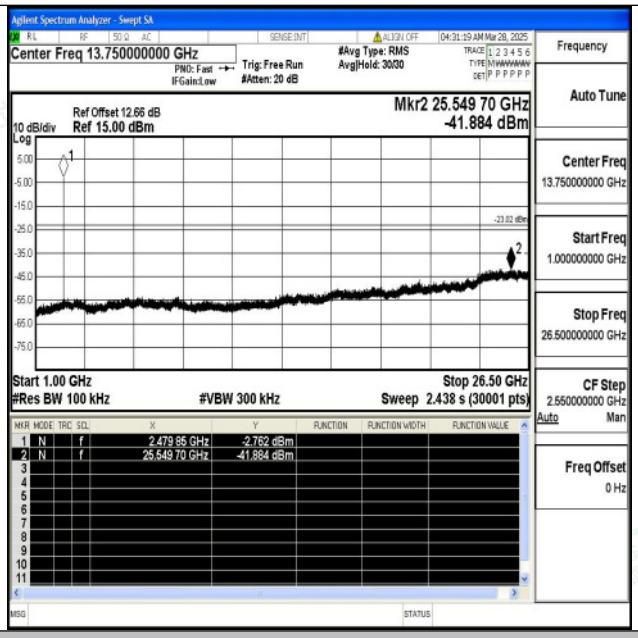
DH5-Ant1-2441-1000~26500-PASS



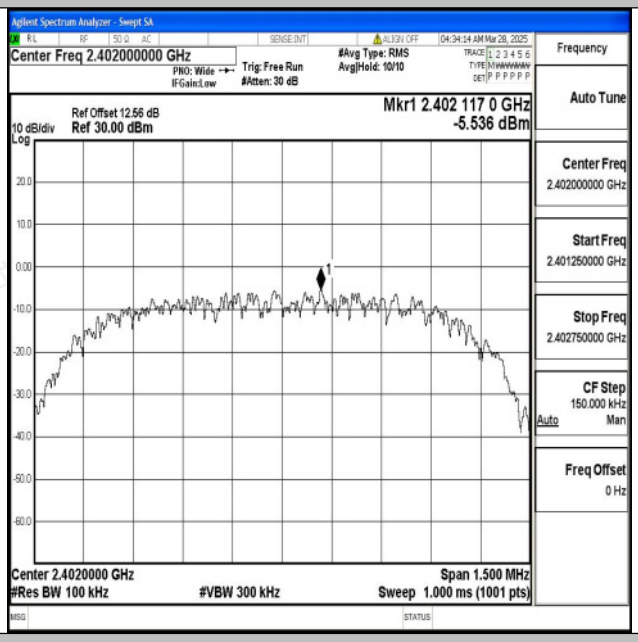
DH5-Ant1-2480-0~Reference-PASS



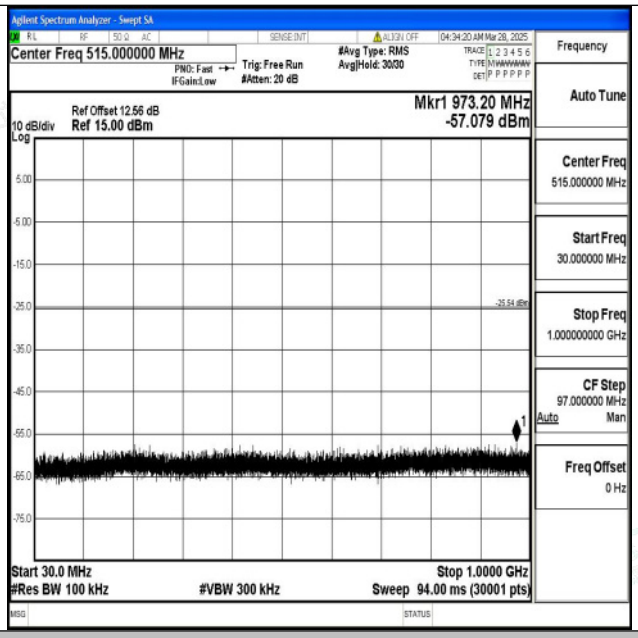
DH5-Ant1-2480-30~1000-PASS



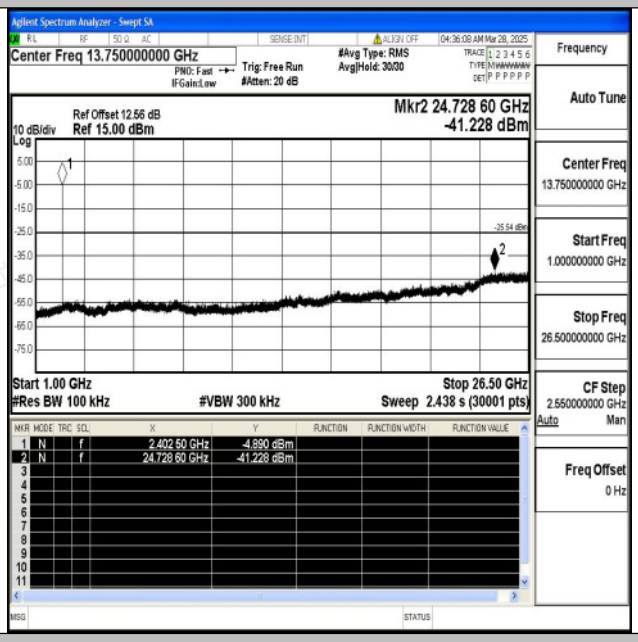
DH5-Ant1-2480-1000~26500-PASS



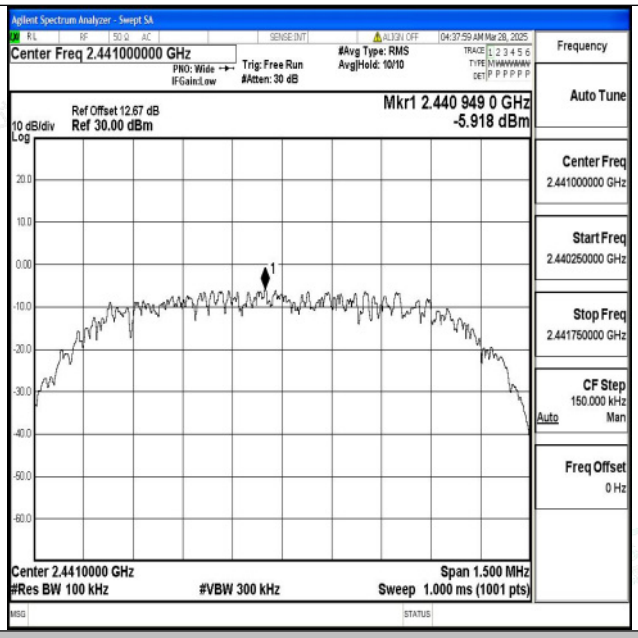
2DH5-Ant1-2402-0~Reference-PASS



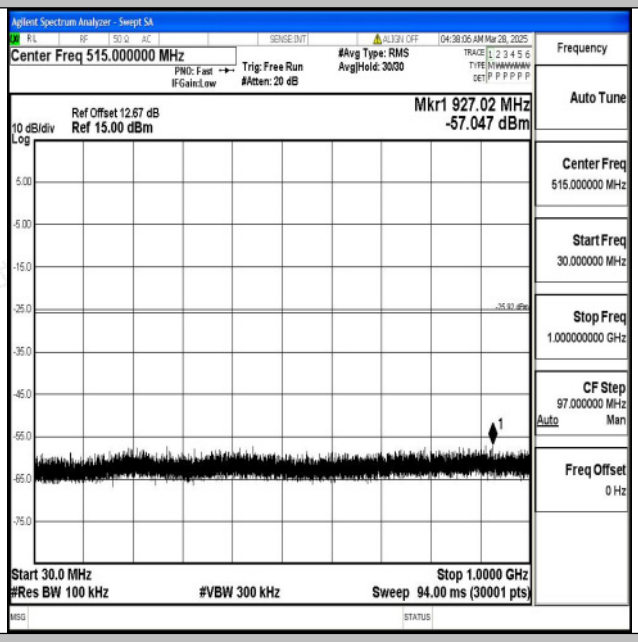
2DH5-Ant1-2402-30~1000-PASS



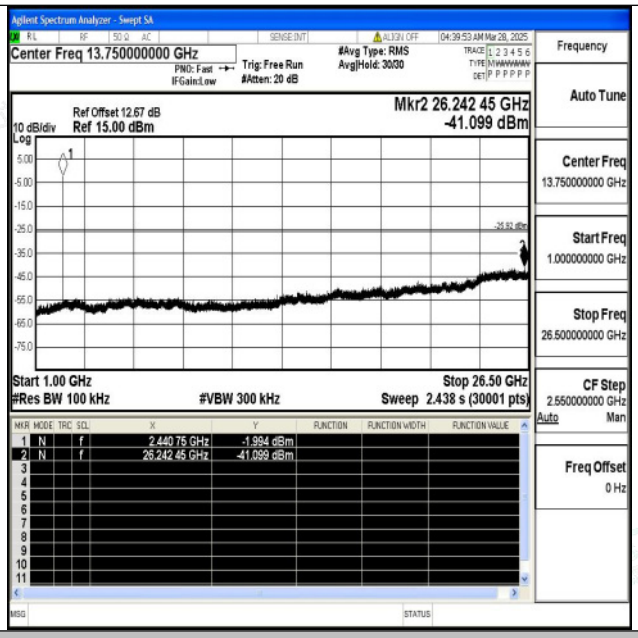
2DH5-Ant1-2402-1000~26500-PASS



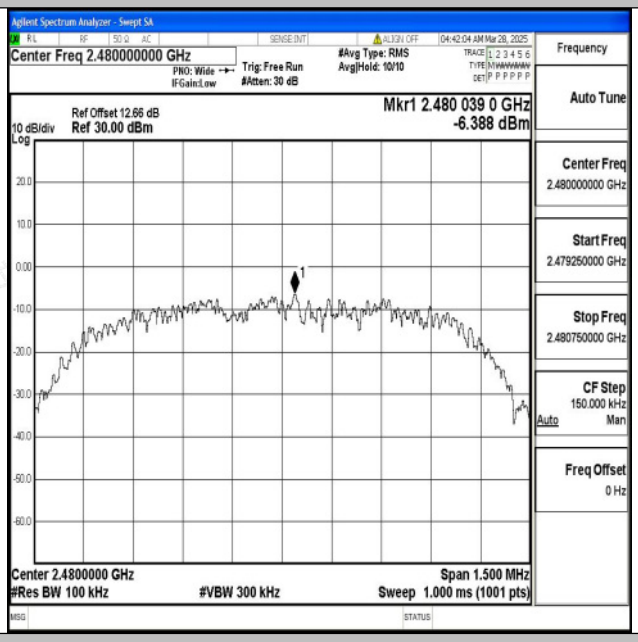
2DH5-Ant1-2441-0~Reference-PASS



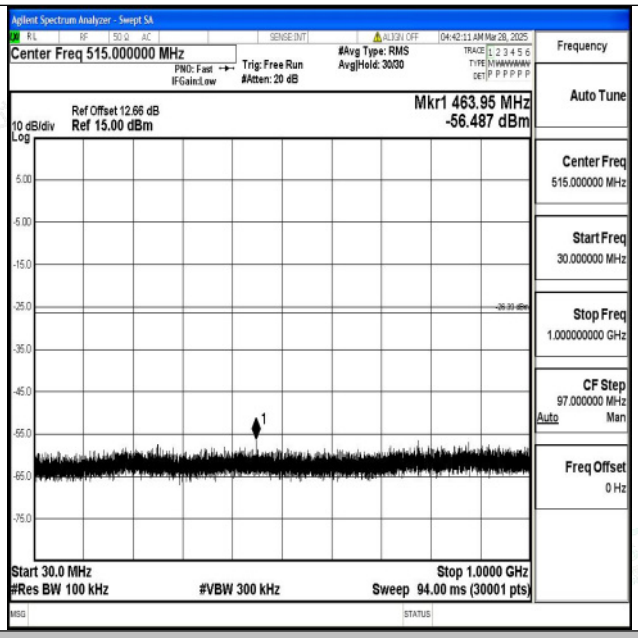
2DH5-Ant1-2441-30~1000-PASS



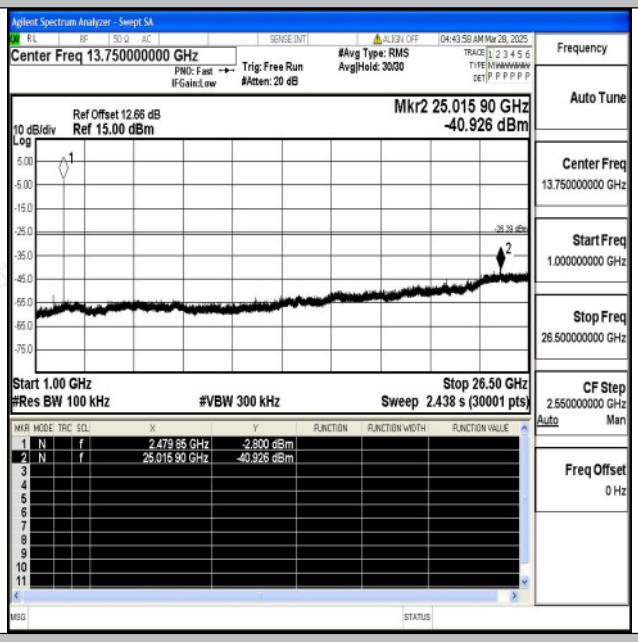
2DH5-Ant1-2441-1000~26500-PASS



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



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



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