Appendix for Bluetooth BR/EDR mode

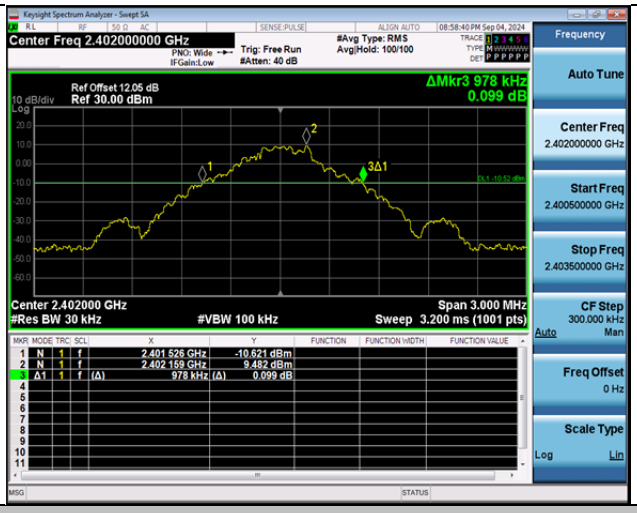
Product Name: InTOUCH04A-AllyW
Model No: InAIO040A

Appendix A: 20dB Emission Bandwidth

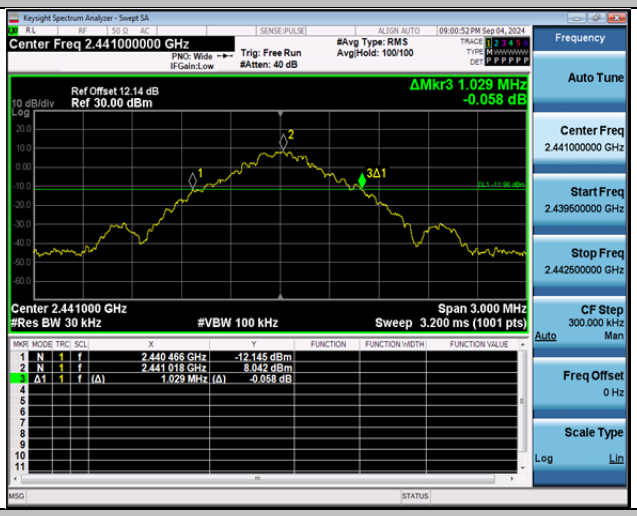
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.978	2401.526	2402.504	---	---
DH5	Ant1	2441	1.029	2440.466	2441.495	---	---
DH5	Ant1	2480	1.053	2479.463	2480.516	---	---
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
2DH5	Ant1	2441	1.290	2440.364	2441.654	---	---
2DH5	Ant1	2480	1.323	2479.337	2480.660	---	---
3DH5	Ant1	2402	1.308	2401.349	2402.657	---	---
3DH5	Ant1	2441	1.302	2440.349	2441.651	---	---
3DH5	Ant1	2480	1.296	2479.352	2480.648	---	---

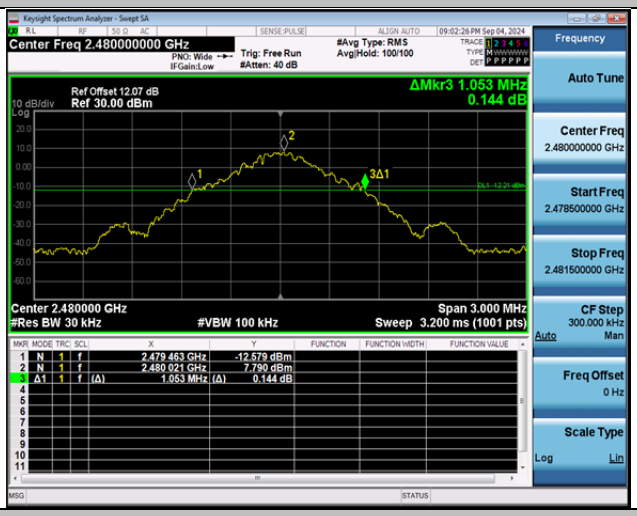
Test Graphs



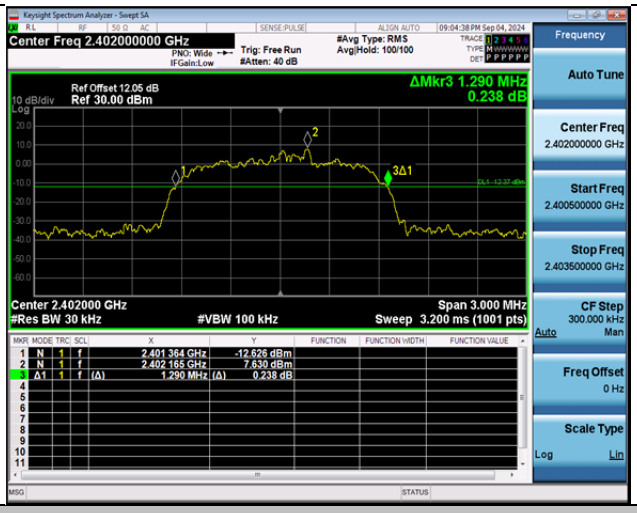
DH5-Ant1-2402



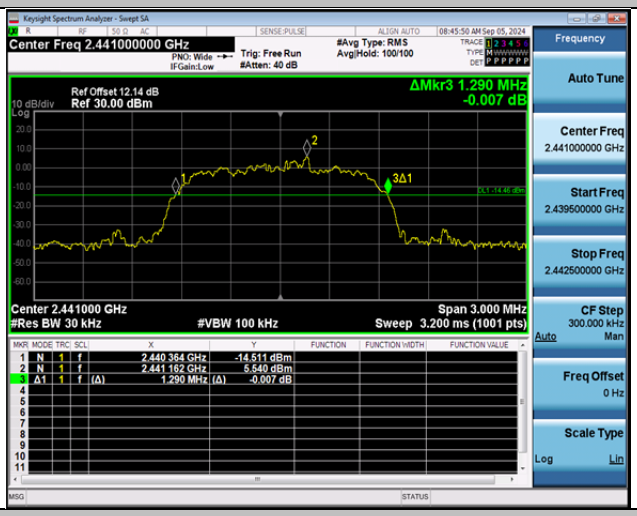
DH5-Ant1-2441



DH5-Ant1-2480

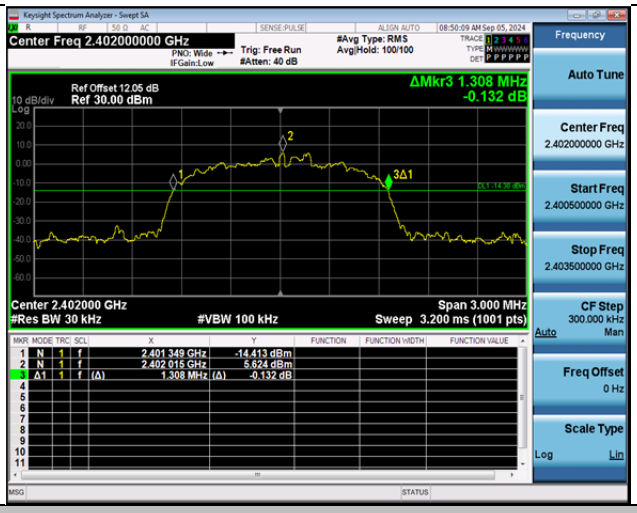


2DH5-Ant1-2402

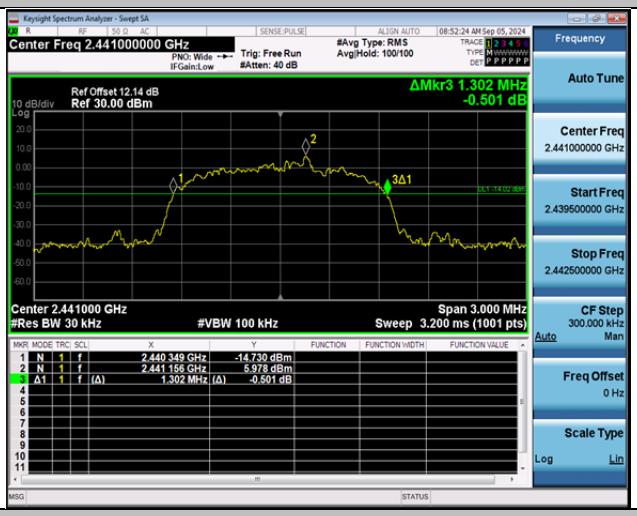


2DH5-Ant1-2441

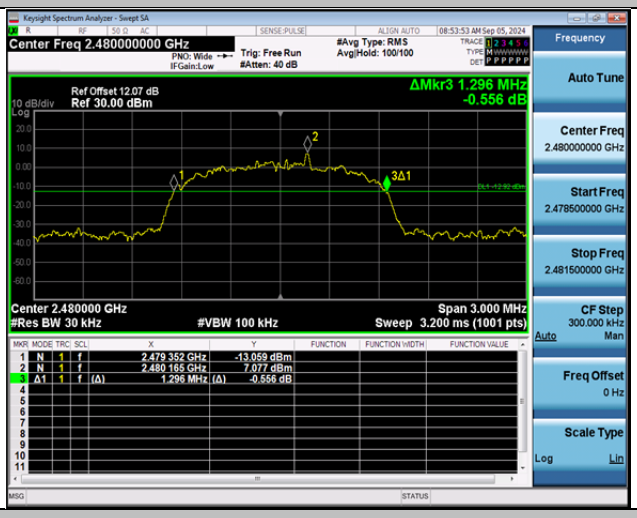
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



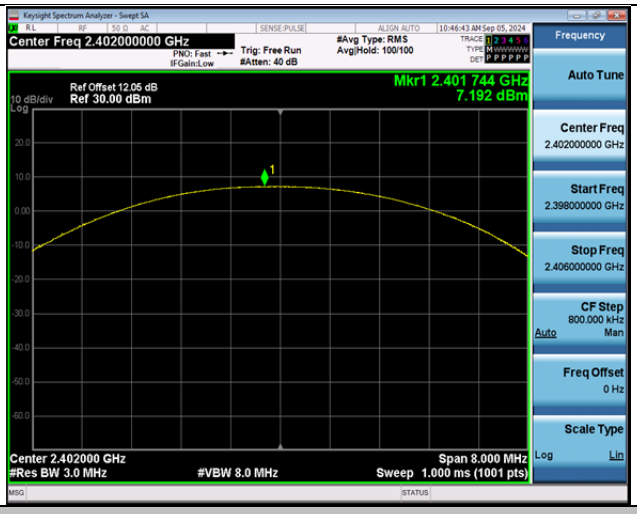
3DH5-Ant1-2480

Appendix B: Maximum conducted output power

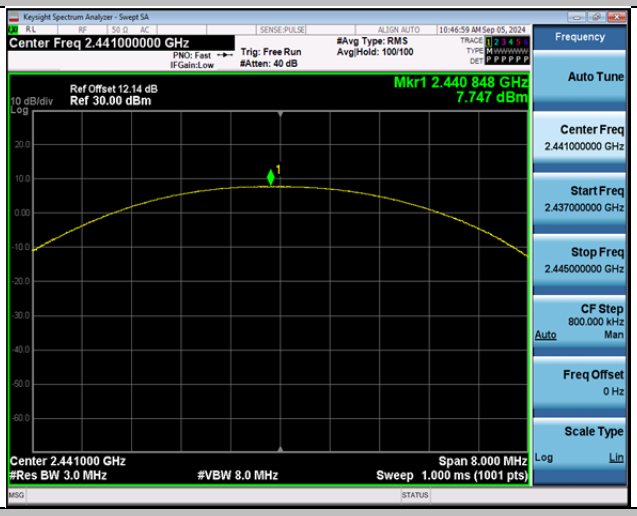
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	7.19	≤30	PASS
DH5	Ant1	2441	7.75	≤30	PASS
DH5	Ant1	2480	8.22	≤30	PASS
2DH5	Ant1	2402	8.20	≤20.97	PASS
2DH5	Ant1	2441	7.53	≤20.97	PASS
2DH5	Ant1	2480	8.04	≤20.97	PASS
3DH5	Ant1	2402	8.36	≤20.97	PASS
3DH5	Ant1	2441	7.83	≤20.97	PASS
3DH5	Ant1	2480	8.01	≤20.97	PASS

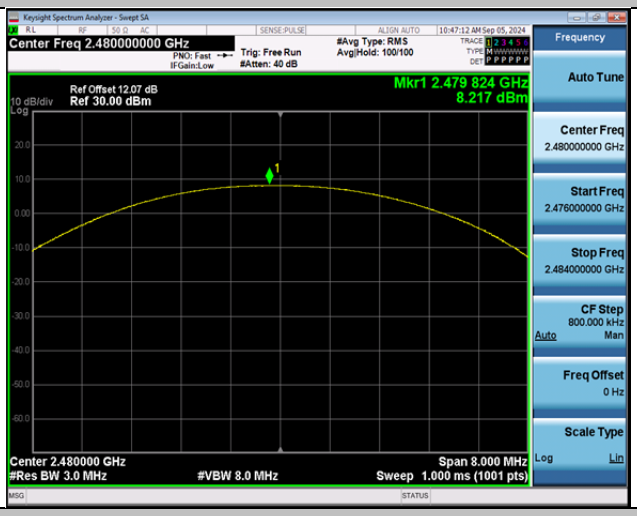
Test Graphs



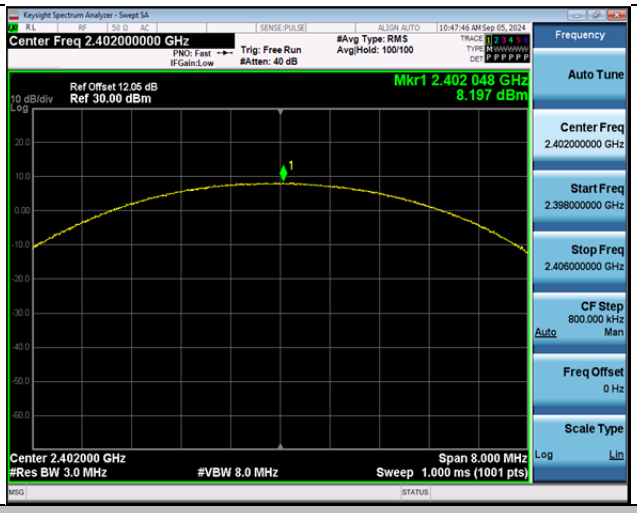
DH5-Ant1-2402-PASS



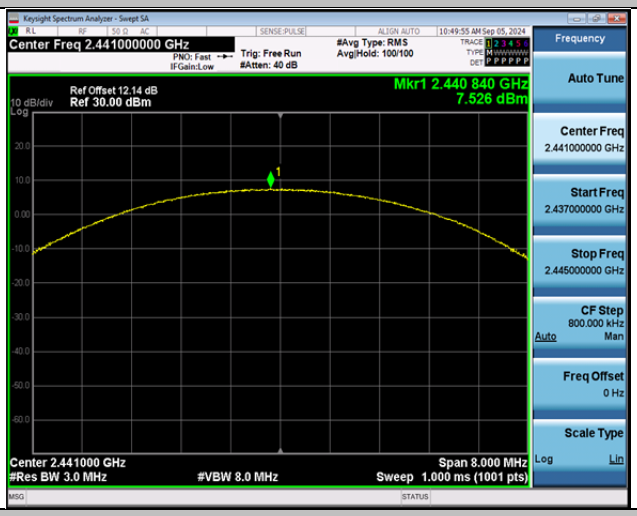
DH5-Ant1-2441-PASS



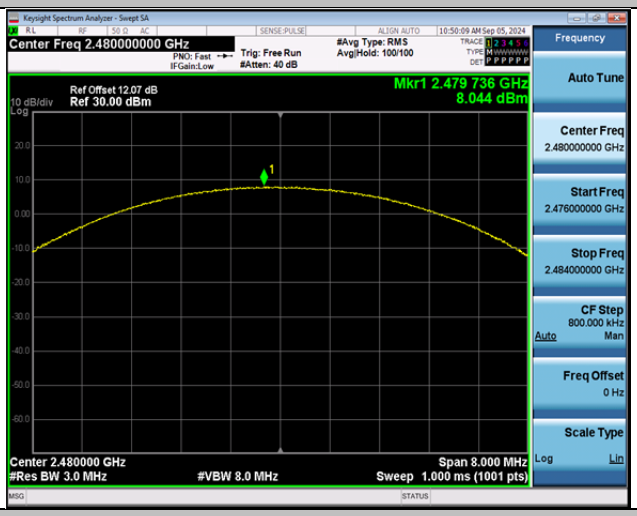
DH5-Ant1-2480-PASS



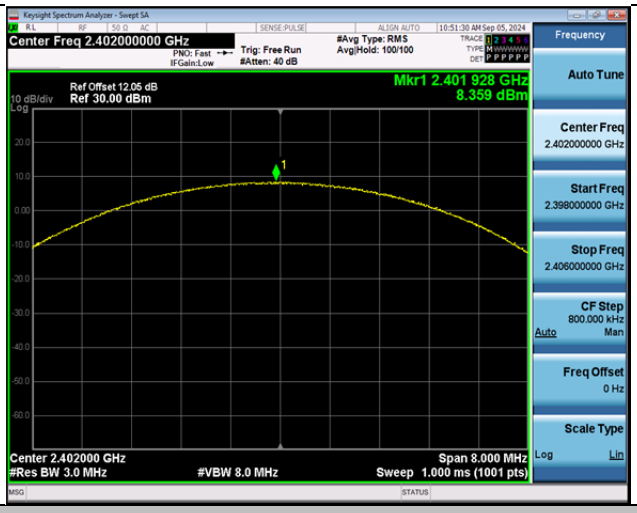
2DH5-Ant1-2402-PASS



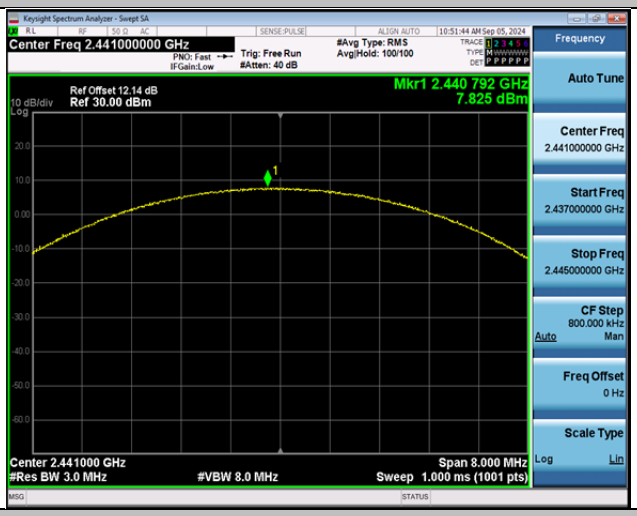
2DH5-Ant1-2441-PASS



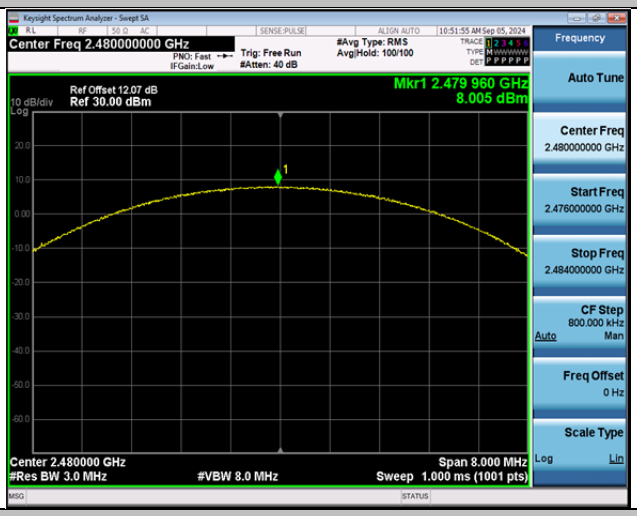
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



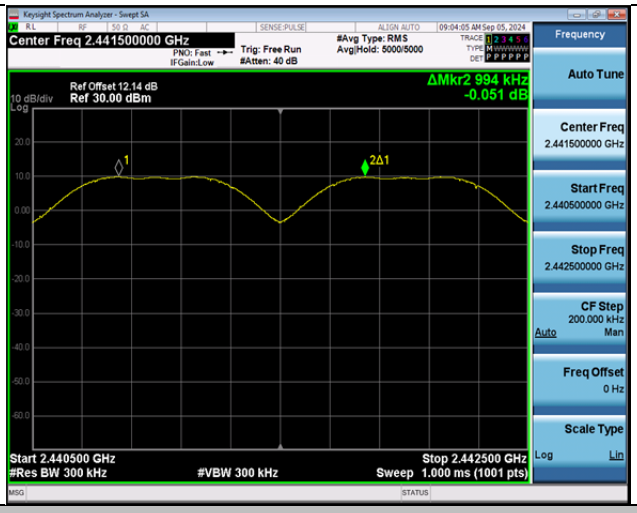
3DH5-Ant1-2480-PASS

Appendix C: Carrier frequency separation

Test Result

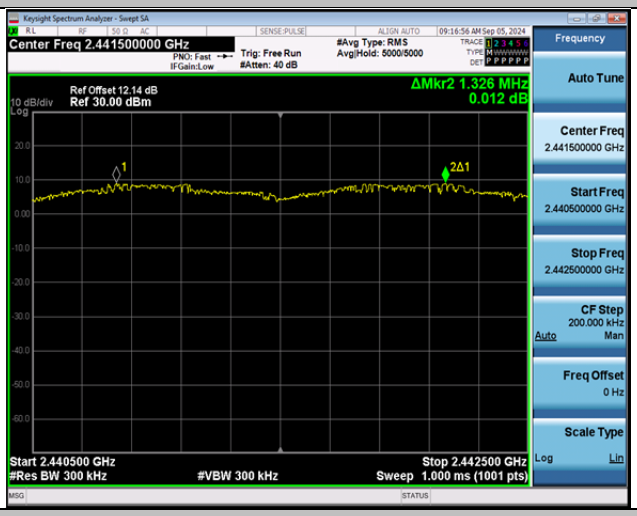
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.702	PASS
2DH5	Ant1	Hop	1.33	≥1.323	PASS
3DH5	Ant1	Hop	1.326	≥1.308	PASS

Test Graphs



DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS



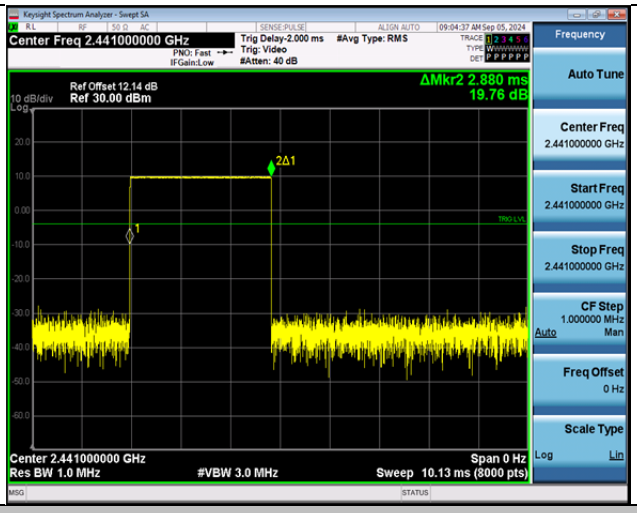
3DH5-Ant1-Hop-PASS

Appendix D: Time of occupancy

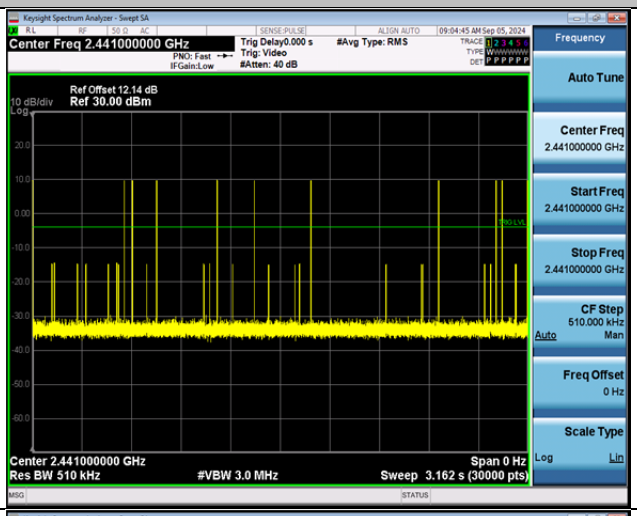
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.883	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.885	80	0.231	≤0.4	PASS

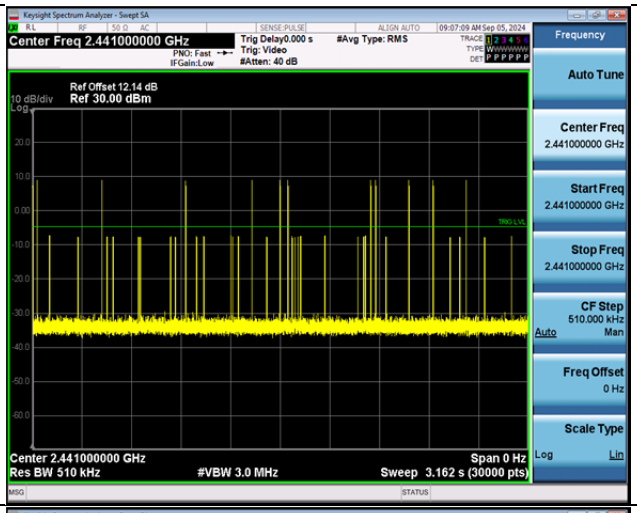
Test Graphs

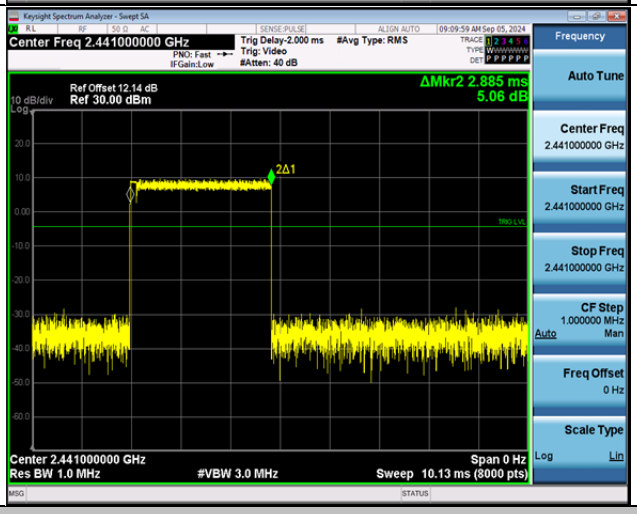


DH5-Ant1-Hop-PASS

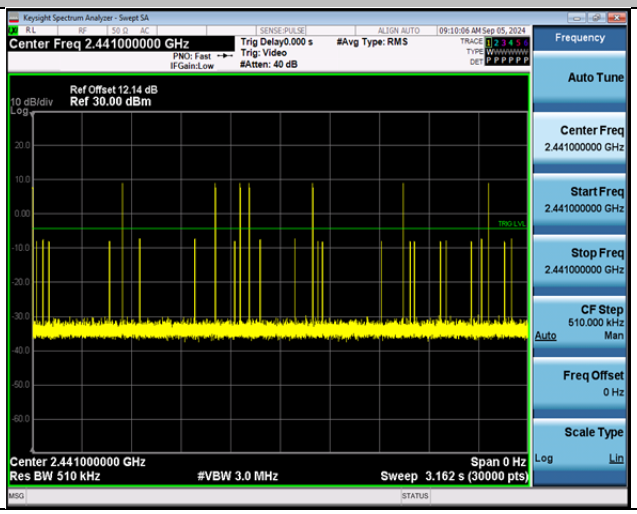


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

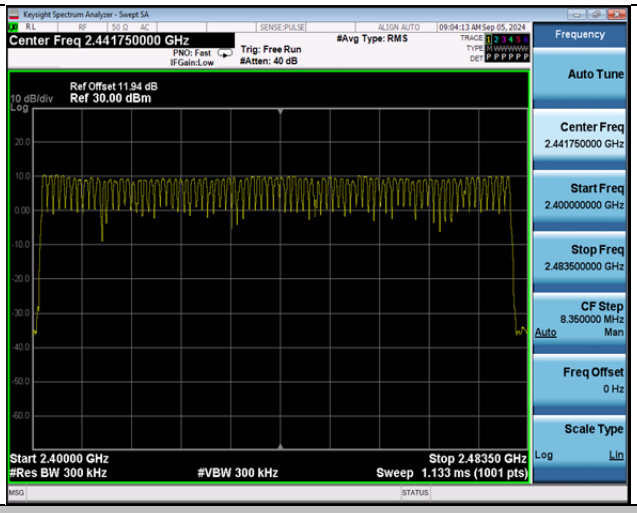


Appendix E: Number of hopping channels

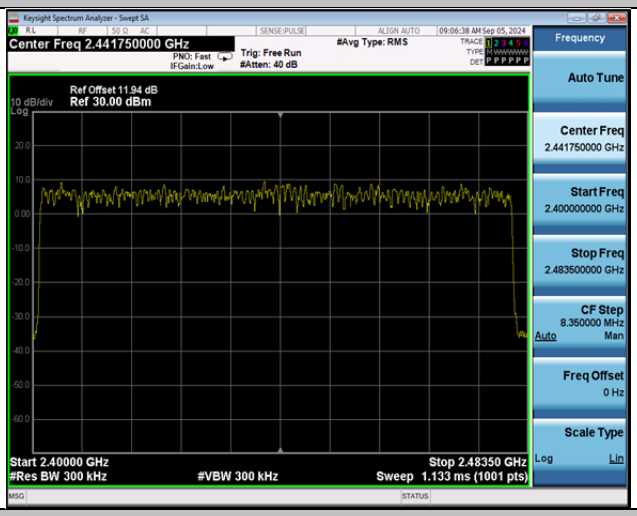
Test Result

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

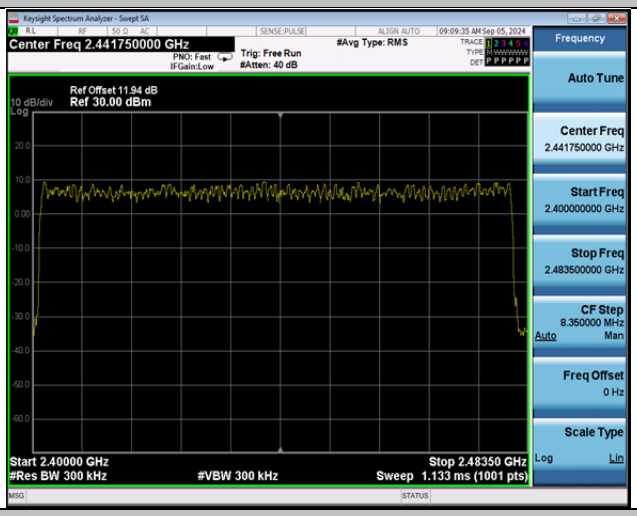
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



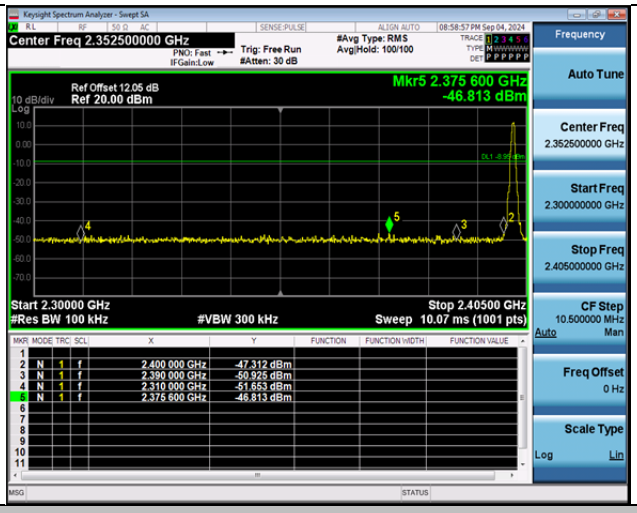
3DH5-Ant1-Hop-PASS

Appendix F: Band edge measurements

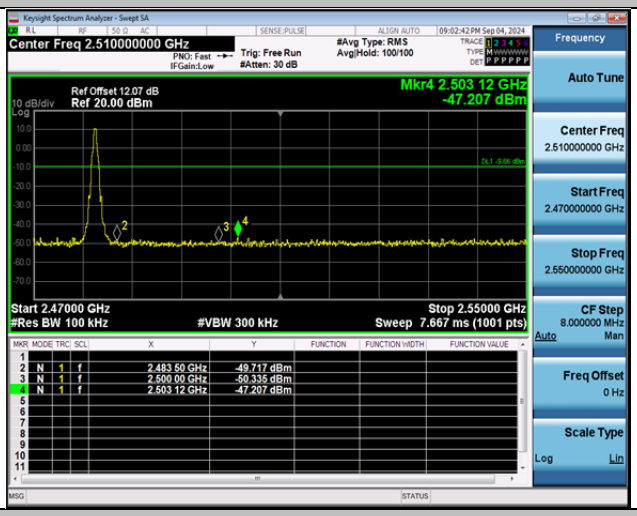
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.05	-46.81	≤-8.95	PASS
DH5	Ant1	High	2480	10.34	-47.21	≤-9.66	PASS
DH5	Ant1	Low	Hop_2402	9.89	-46.46	≤-10.11	PASS
DH5	Ant1	High	Hop_2480	9.57	-46.74	≤-10.43	PASS
2DH5	Ant1	Low	2402	9.33	-46.88	≤-10.67	PASS
2DH5	Ant1	High	2480	9.02	-47.4	≤-10.98	PASS
2DH5	Ant1	Low	Hop_2402	6.82	-45.99	≤-13.18	PASS
2DH5	Ant1	High	Hop_2480	9.21	-46.72	≤-10.79	PASS
3DH5	Ant1	Low	2402	9.21	-45.07	≤-10.79	PASS
3DH5	Ant1	High	2480	8.81	-47.35	≤-11.19	PASS
3DH5	Ant1	Low	Hop_2402	5.90	-45.52	≤-14.11	PASS
3DH5	Ant1	High	Hop_2480	5.34	-46.42	≤-14.66	PASS

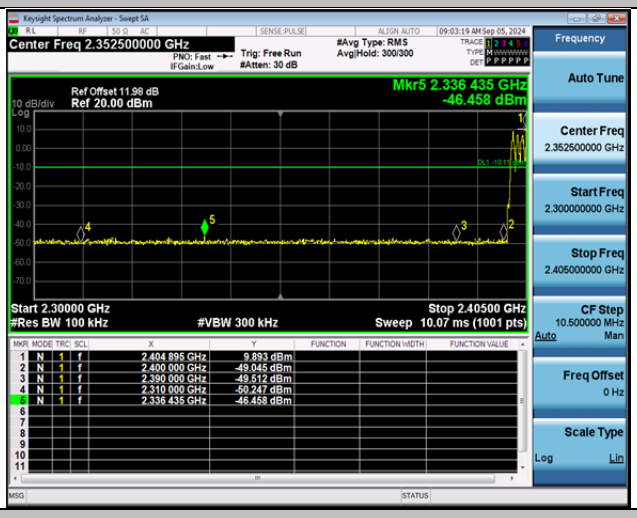
Test Graphs



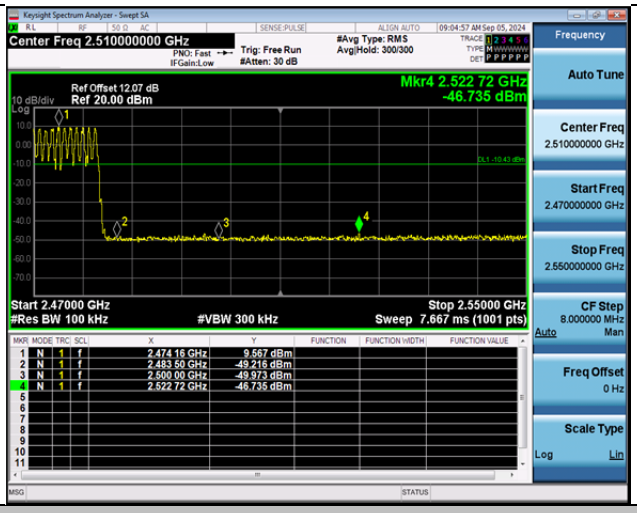
DH5-Ant1-2402-PASS



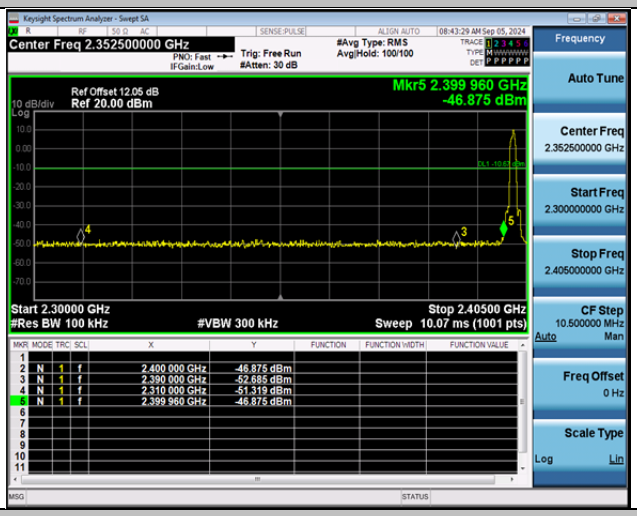
DH5-Ant1-2480-PASS



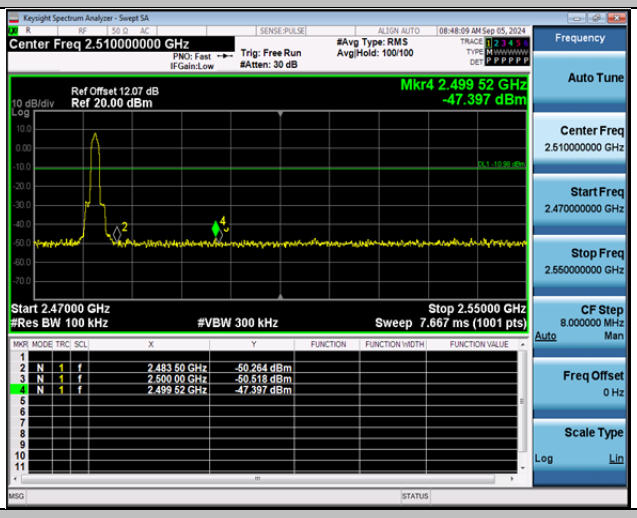
DH5-Ant1-Hop_2402-PASS



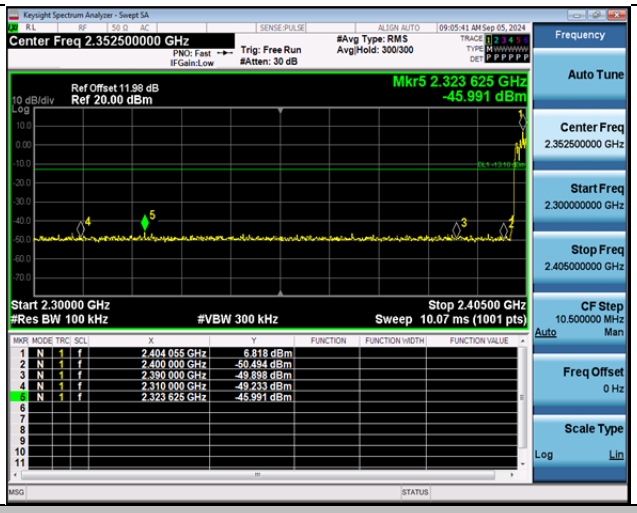
DH5-Ant1-Hop_2480-PASS



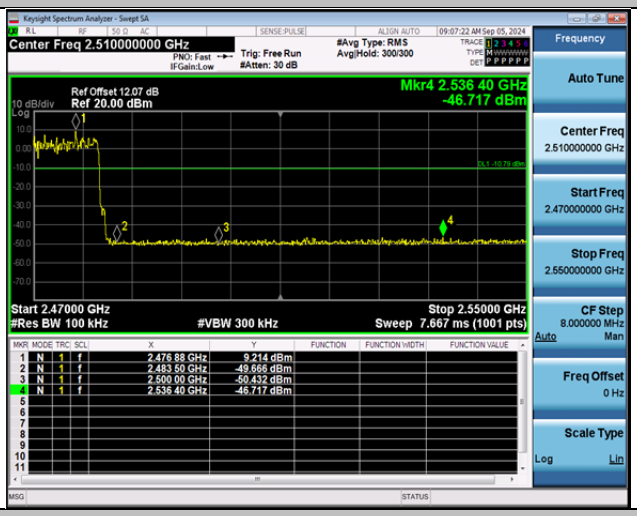
2DH5-Ant1-2402-PASS



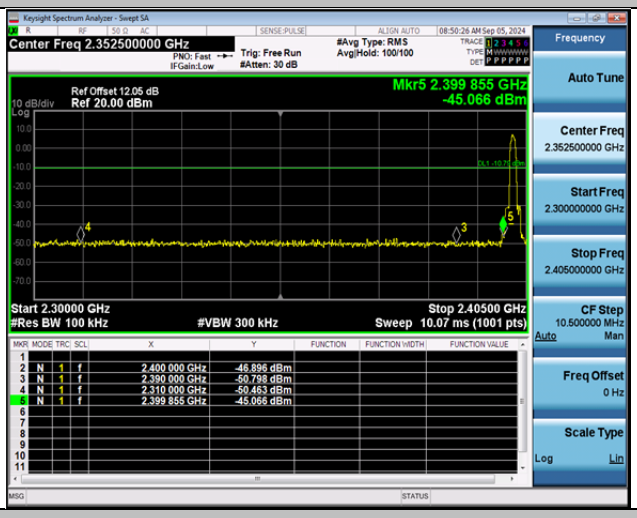
2DH5-Ant1-2480-PASS



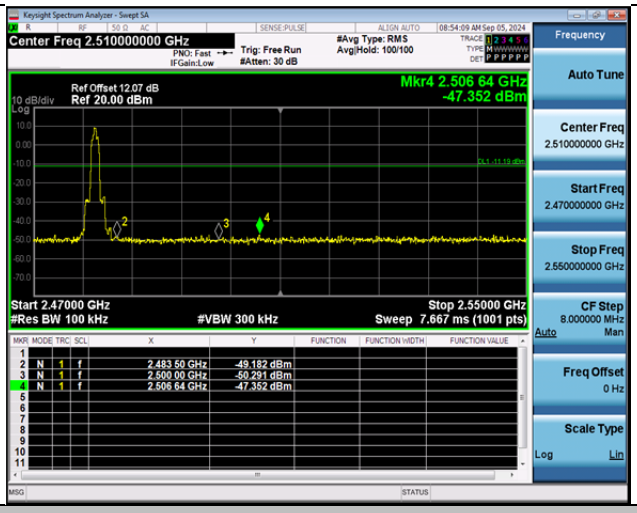
2DH5-Ant1-Hop_2402-PASS



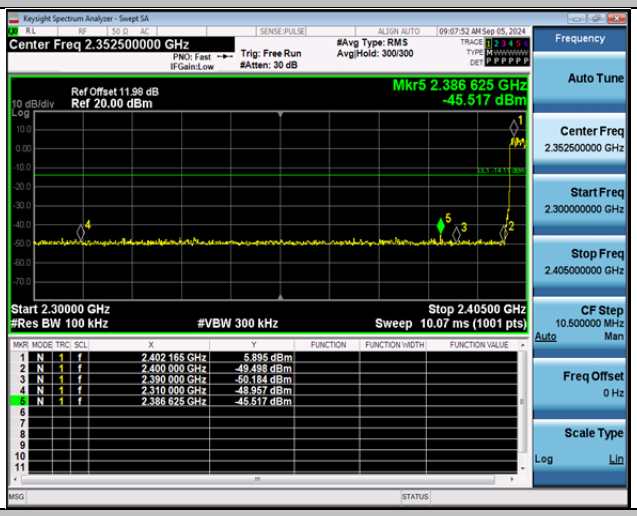
2DH5-Ant1-Hop_2480-PASS



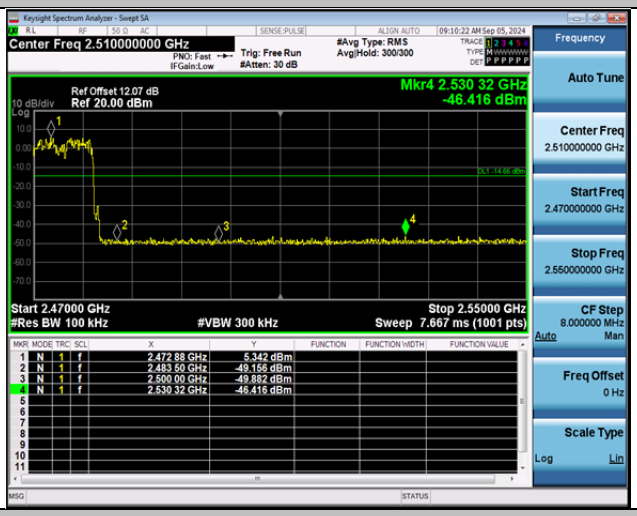
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	11.05	-58.45	≤-8.95	PASS
DH5	Ant1	2402	1000~26500	11.05	-44.45	≤-8.95	PASS
DH5	Ant1	2441	30~1000	9.87	-59.28	≤-10.13	PASS
DH5	Ant1	2441	1000~26500	9.87	-44.37	≤-10.13	PASS
DH5	Ant1	2480	30~1000	10.34	-58.61	≤-9.66	PASS
DH5	Ant1	2480	1000~26500	10.34	-43.53	≤-9.66	PASS
2DH5	Ant1	2402	30~1000	9.33	-58.74	≤-10.67	PASS
2DH5	Ant1	2402	1000~26500	9.33	-44.86	≤-10.67	PASS
2DH5	Ant1	2441	30~1000	8.56	-59.78	≤-11.44	PASS
2DH5	Ant1	2441	1000~26500	8.56	-44	≤-11.44	PASS
2DH5	Ant1	2480	30~1000	9.02	-59.54	≤-10.98	PASS
2DH5	Ant1	2480	1000~26500	9.02	-45.15	≤-10.98	PASS
3DH5	Ant1	2402	30~1000	9.21	-58.93	≤-10.79	PASS
3DH5	Ant1	2402	1000~26500	9.21	-44.83	≤-10.79	PASS
3DH5	Ant1	2441	30~1000	8.74	-53.89	≤-11.26	PASS
3DH5	Ant1	2441	1000~26500	8.74	-45.15	≤-11.26	PASS
3DH5	Ant1	2480	30~1000	8.81	-59.01	≤-11.19	PASS
3DH5	Ant1	2480	1000~26500	8.81	-45.01	≤-11.19	PASS