



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TWS EARPHONES

Test Model: S650

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

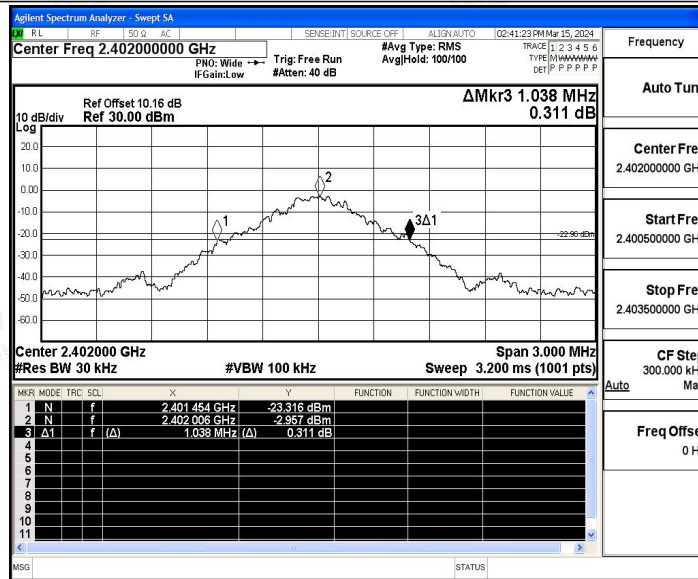
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.454	2402.492	---	---
		2441	1.044	2440.454	2441.498	---	---
		2480	0.984	2479.514	2480.498	---	---
2DH5	Ant1	2402	1.314	2401.334	2402.648	---	---
		2441	1.314	2440.337	2441.651	---	---
		2480	1.320	2479.328	2480.648	---	---



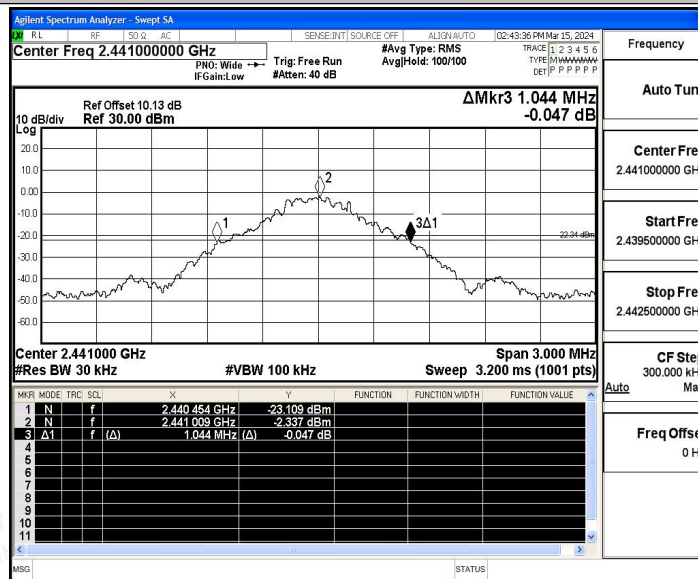


Test Graphs

DH5_Ant1_2402

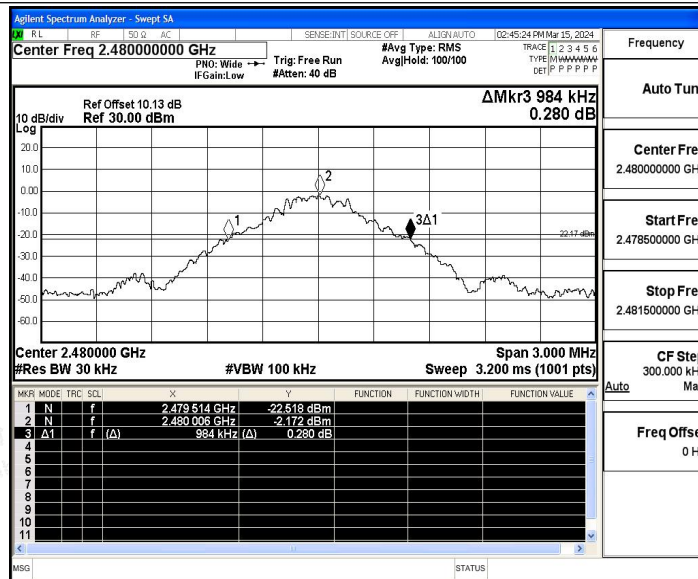


DH5_Ant1_2441

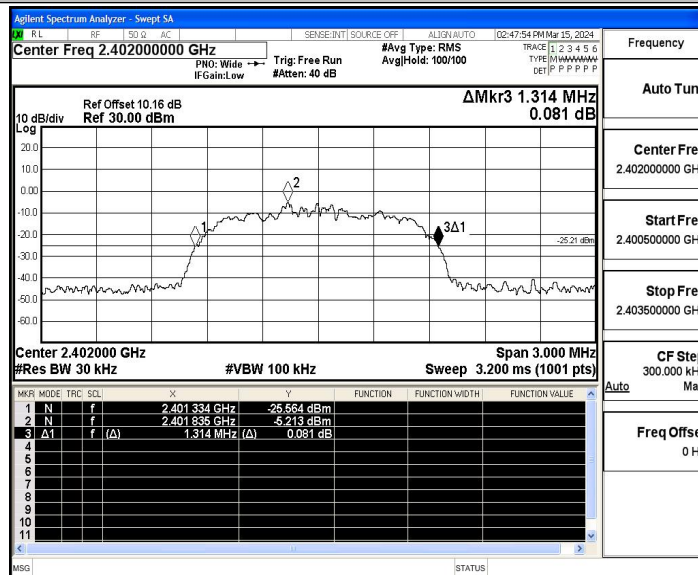


DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441







A.2 Maximum Peak Conducted Output Power

Test Result

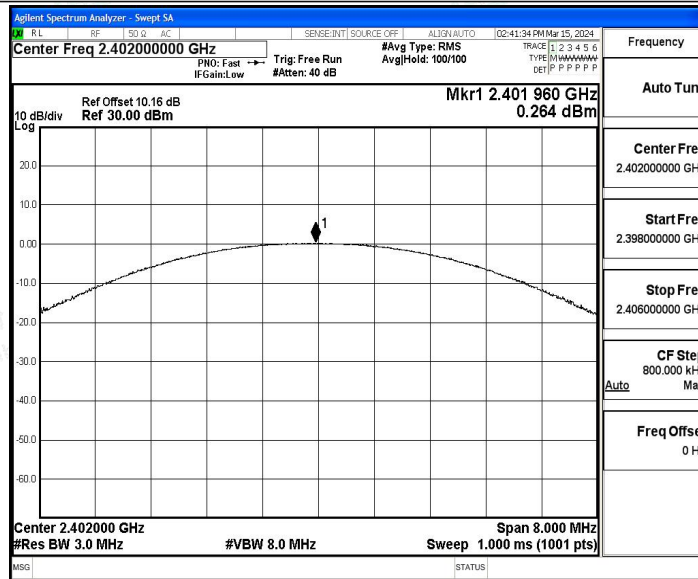
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.26	≤20.97	PASS
		2441	0.83	≤20.97	PASS
		2480	0.91	≤20.97	PASS
2DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.52	≤20.97	PASS
		2480	0.54	≤20.97	PASS



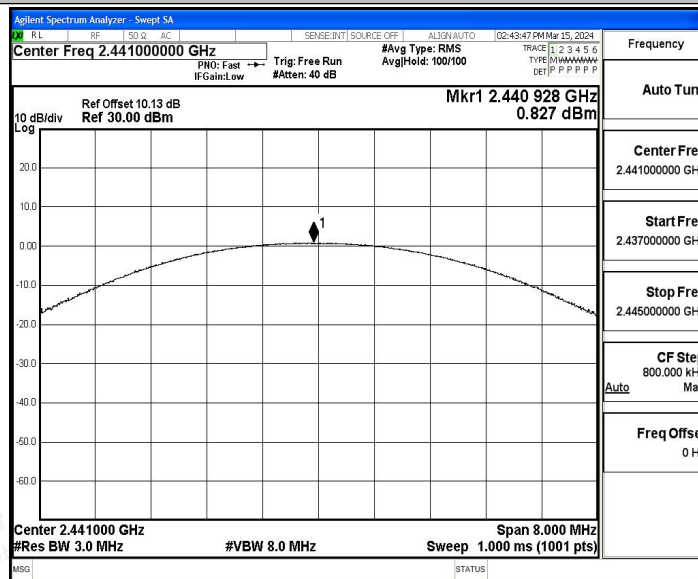


Test Graphs

DH5_Ant1_2402

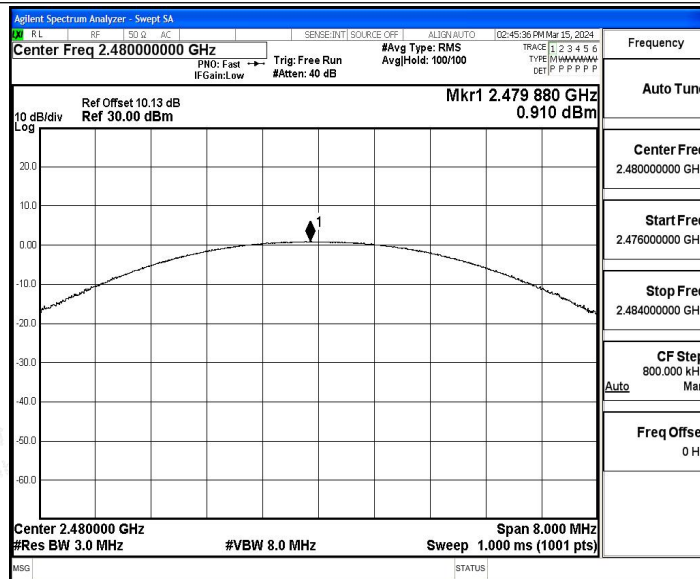


DH5_Ant1_2441

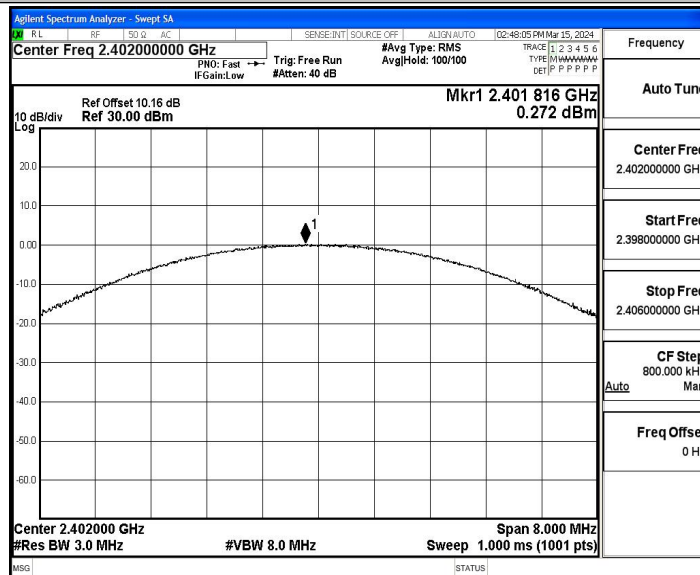


DH5_Ant1_2480



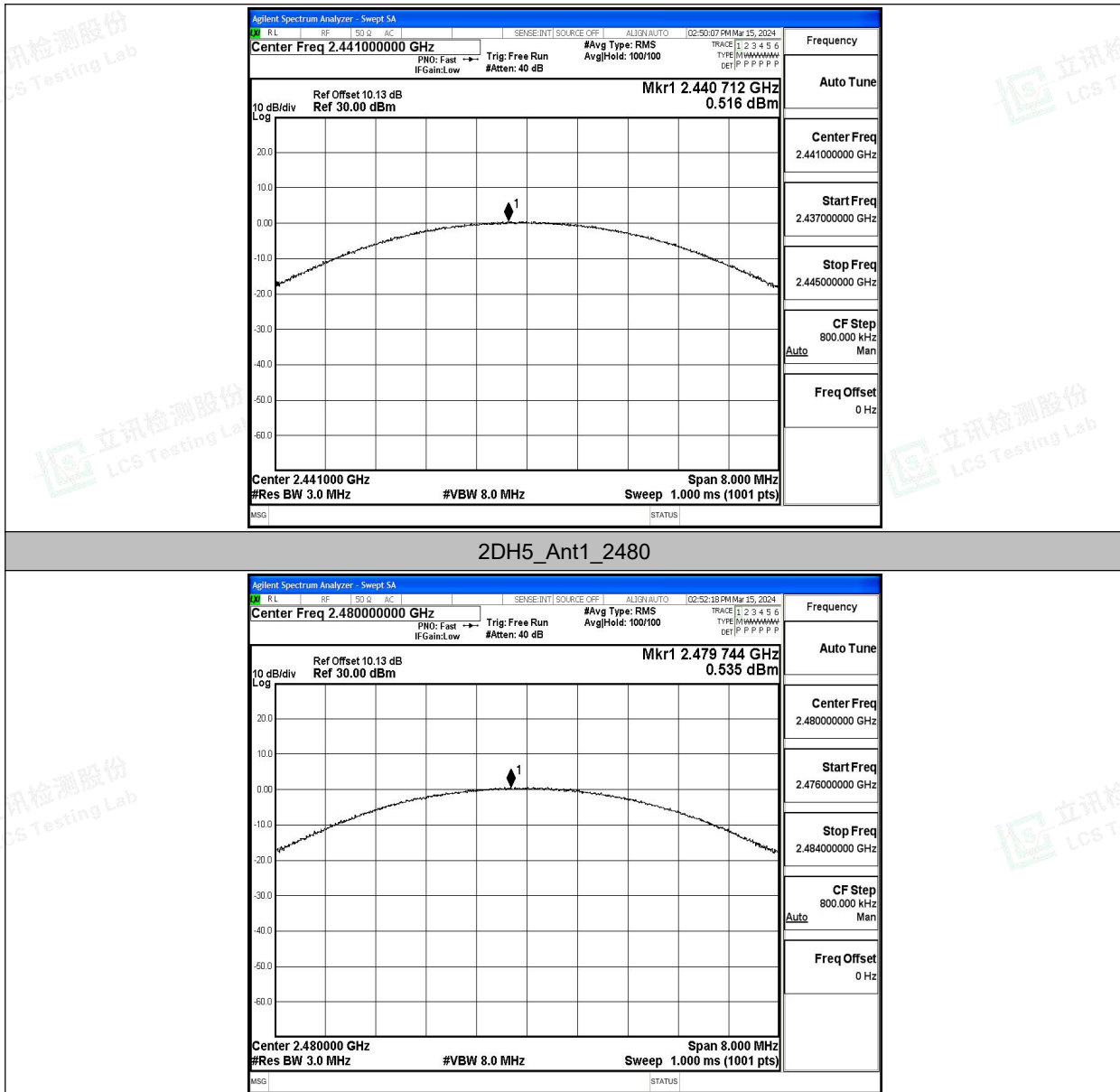


2DH5_Ant1_2402



2DH5_Ant1_2441







A.3 Carrier frequency separation

Test Result

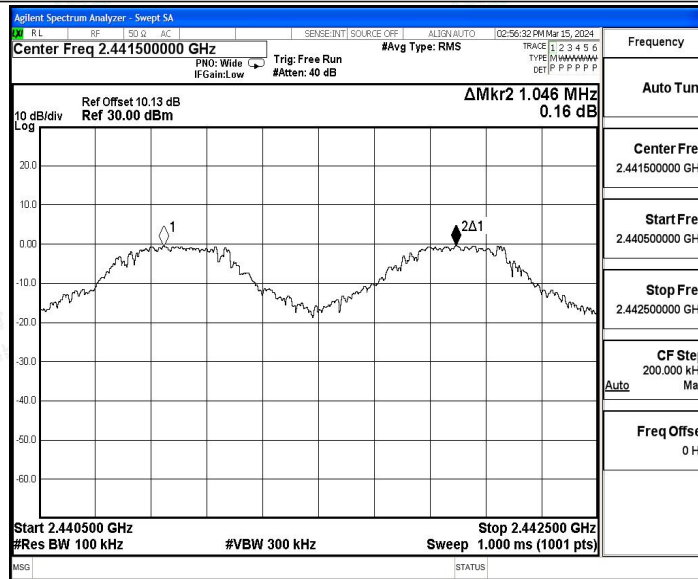
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.046	≥ 0.696	PASS
2DH5	Ant1	Hop	1.028	≥ 0.880	PASS



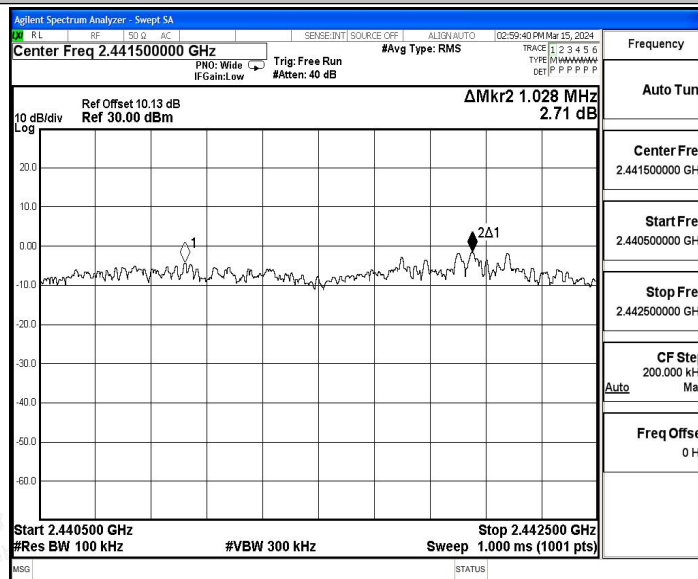


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.4 Time of occupancy

Test Result

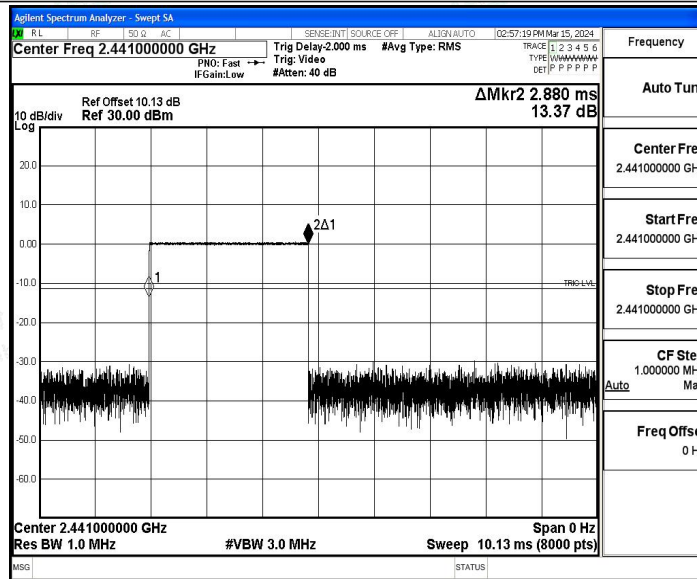
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS



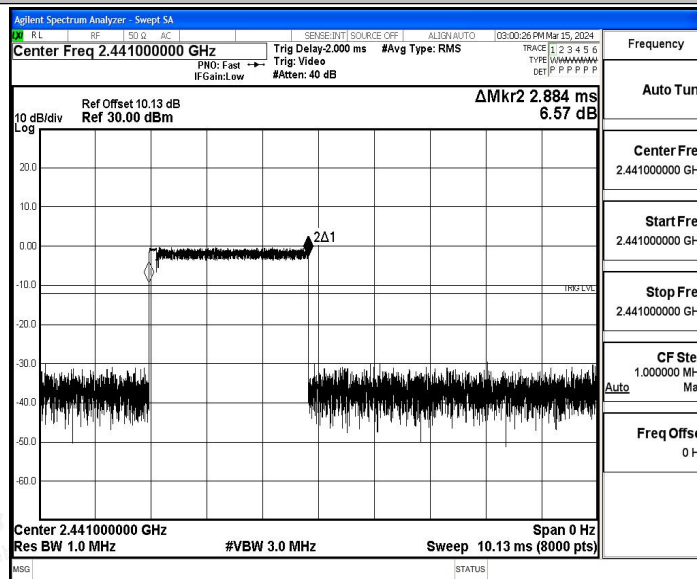


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.5 Number of hopping channels

Test Result

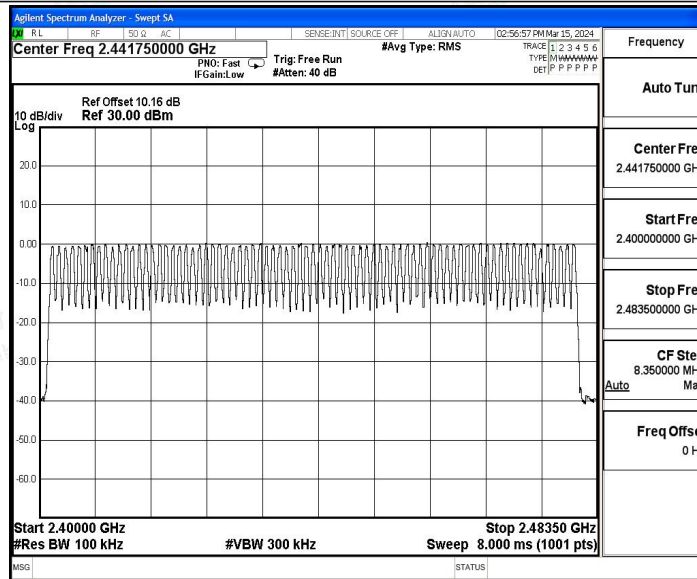
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



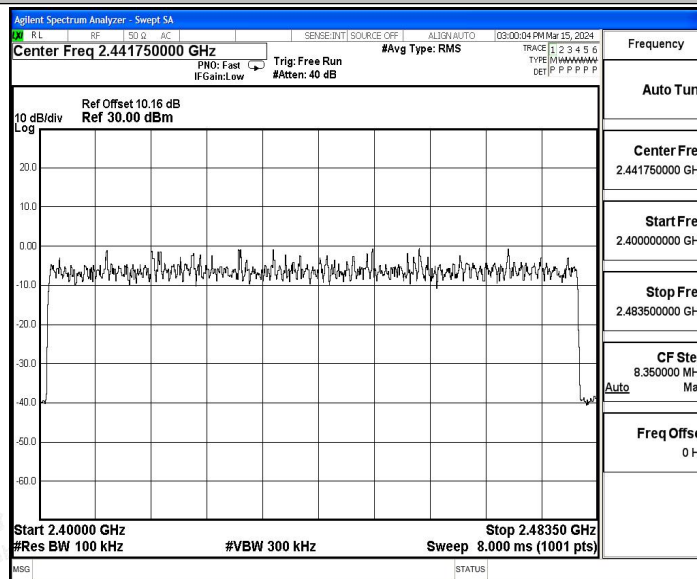


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.6 Band edge measurements

Test Result

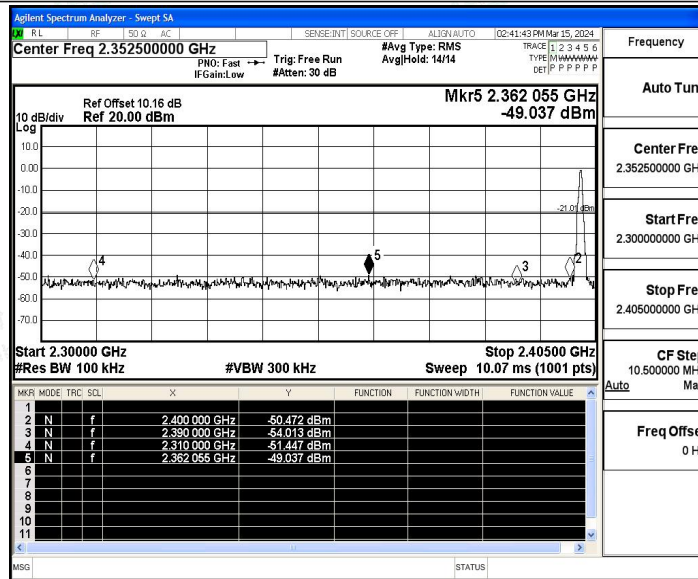
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.01	-49.04	≤-21.01	PASS
		High	2480	-0.25	-48.71	≤-20.25	PASS
		Low	Hop_2402	-0.65	-47.03	≤-20.65	PASS
		High	Hop_2480	0.13	-47.35	≤-19.87	PASS
2DH5	Ant1	Low	2402	-1.58	-48.59	≤-21.58	PASS
		High	2480	-1.32	-47.78	≤-21.32	PASS
		Low	Hop_2402	-4.64	-46.7	≤-24.64	PASS
		High	Hop_2480	-2.87	-46.58	≤-22.87	PASS



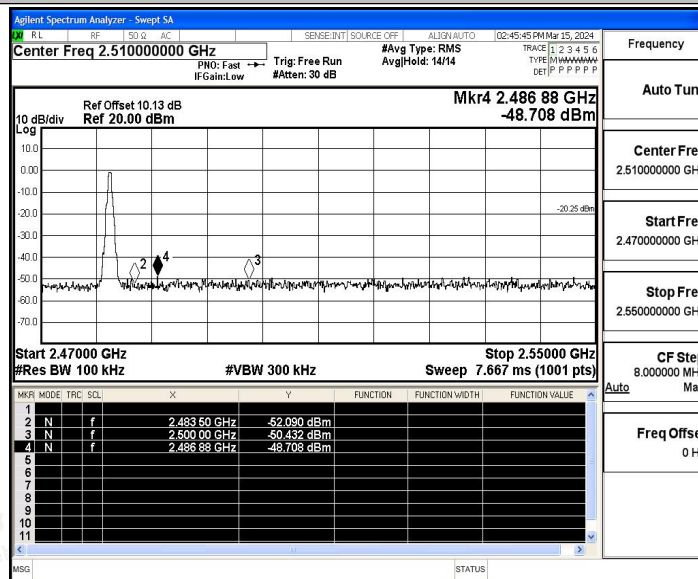


Test Graphs

DH5_Ant1_Low_2402

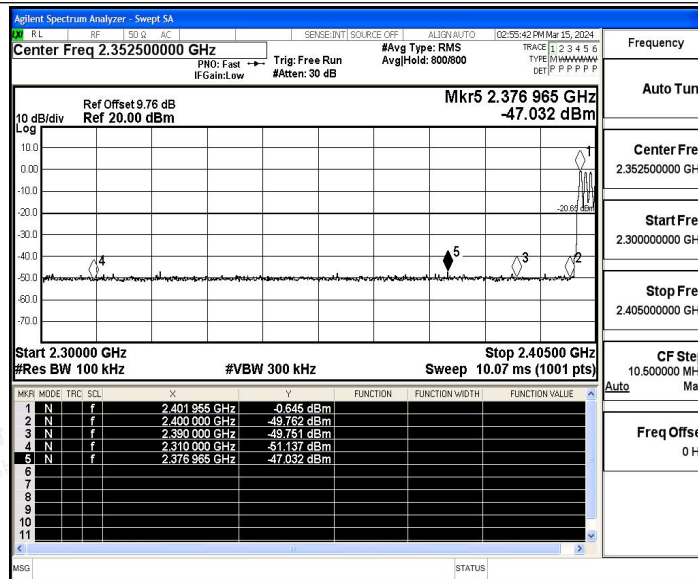


DH5_Ant1_High_2480

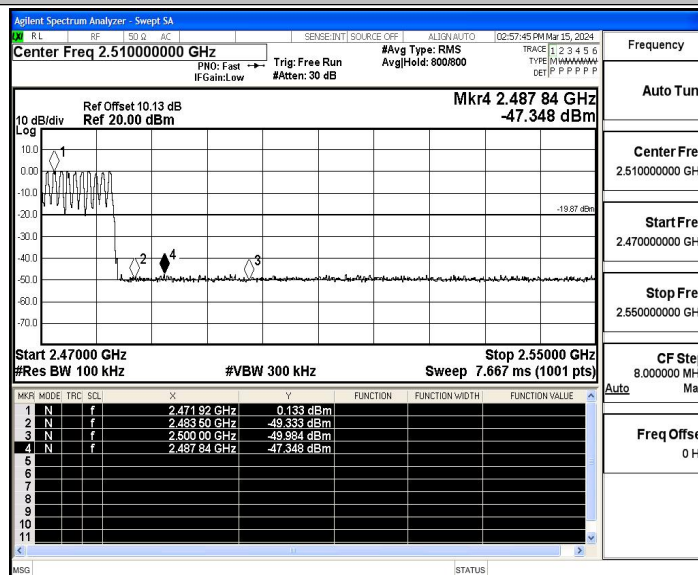


DH5_Ant1_Low_Hop_2402



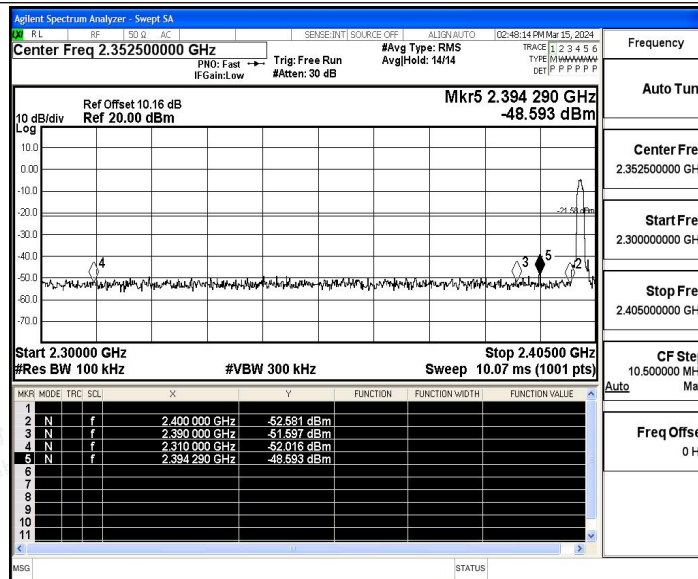


DH5_Ant1_High_Hop_2480

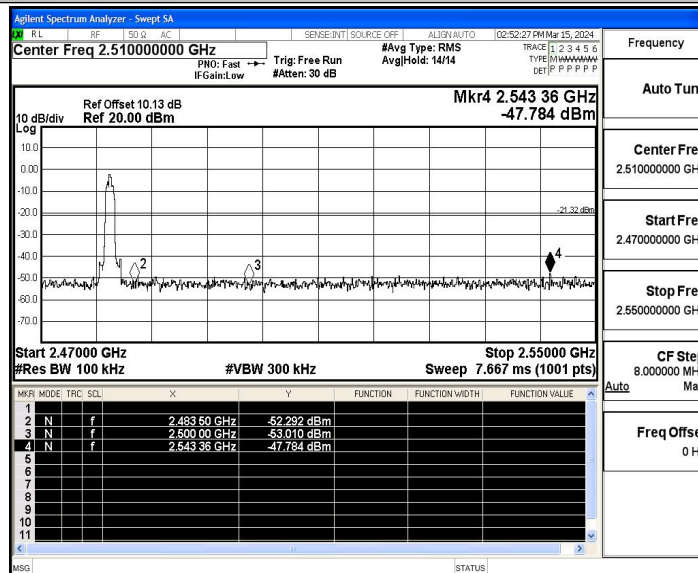


2DH5_Ant1_Low_2402



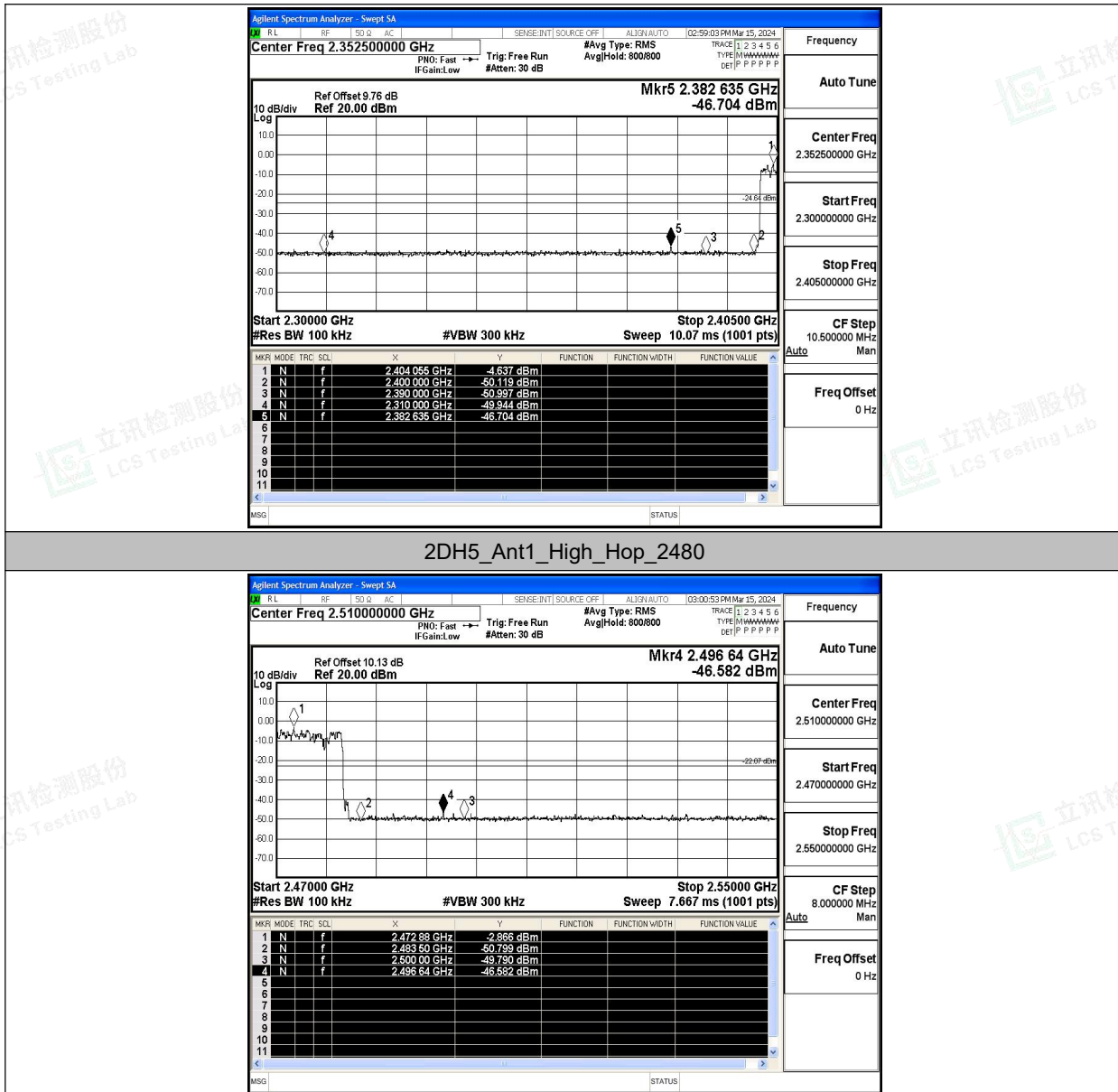


2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402







A.7 Conducted Spurious Emission

Test Result

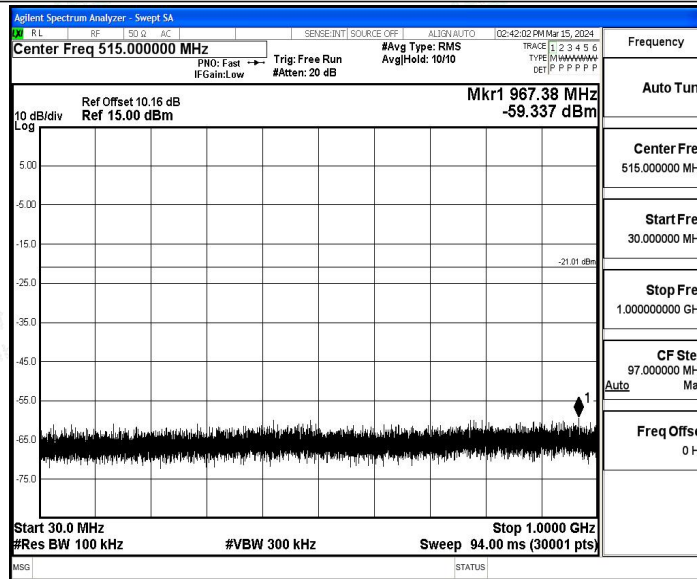
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-1.01	-59.34	≤-21.01	PASS
			1000~26500	-1.01	-47.38	≤-21.01	PASS
		2441	30~1000	0.10	-59.79	≤-19.9	PASS
			1000~26500	0.10	-47.23	≤-19.9	PASS
		2480	30~1000	-0.25	-59.34	≤-20.25	PASS
			1000~26500	-0.25	-46.71	≤-20.25	PASS
2DH5	Ant1	2402	30~1000	-1.58	-58.23	≤-21.58	PASS
			1000~26500	-1.58	-46.31	≤-21.58	PASS
		2441	30~1000	-0.98	-59.8	≤-20.98	PASS
			1000~26500	-0.98	-46.97	≤-20.98	PASS
		2480	30~1000	-1.32	-55.91	≤-21.32	PASS
			1000~26500	-1.32	-46.52	≤-21.32	PASS



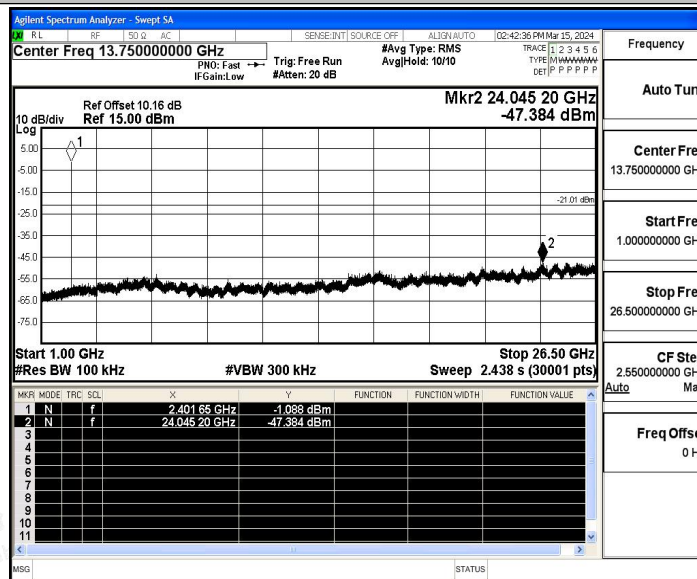


Test Graphs

DH5_Ant1_2402_30~1000

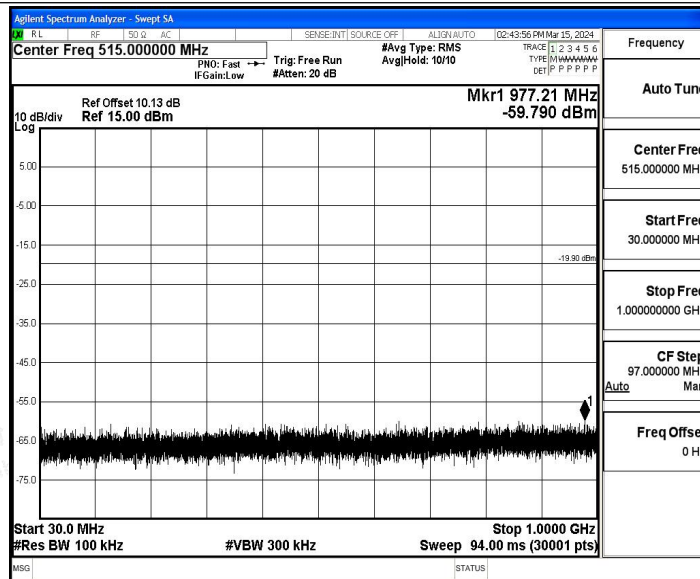


DH5_Ant1_2402_1000~26500

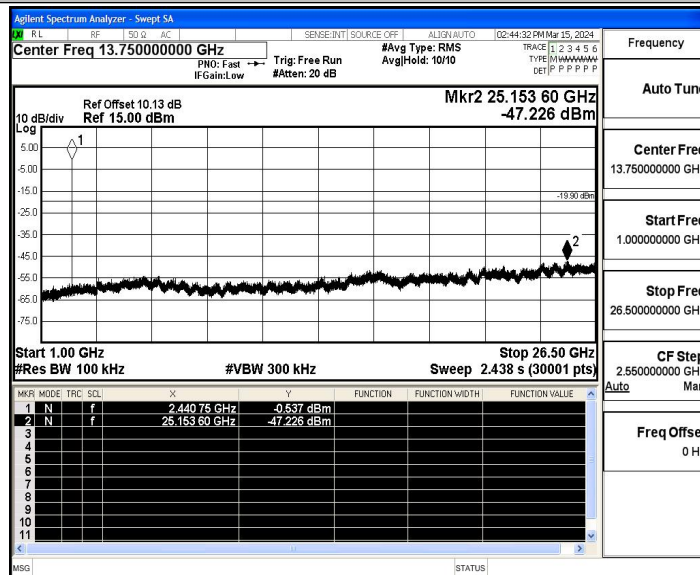


DH5_Ant1_2441_30~1000



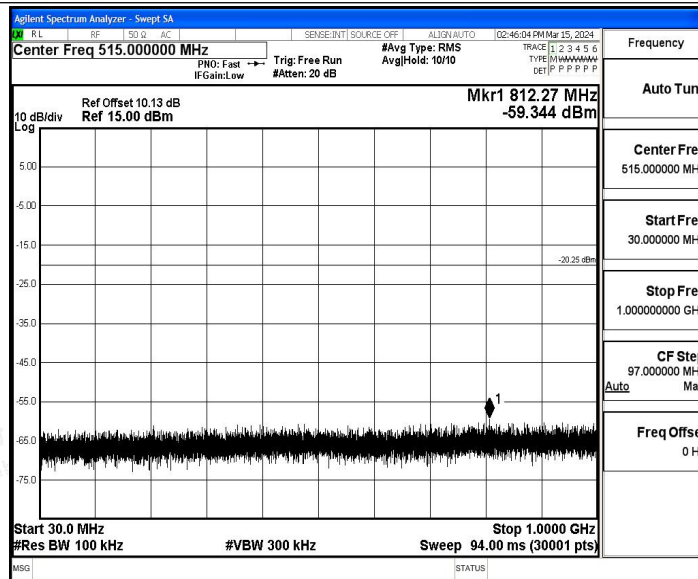


DH5_Ant1_2441_1000~26500

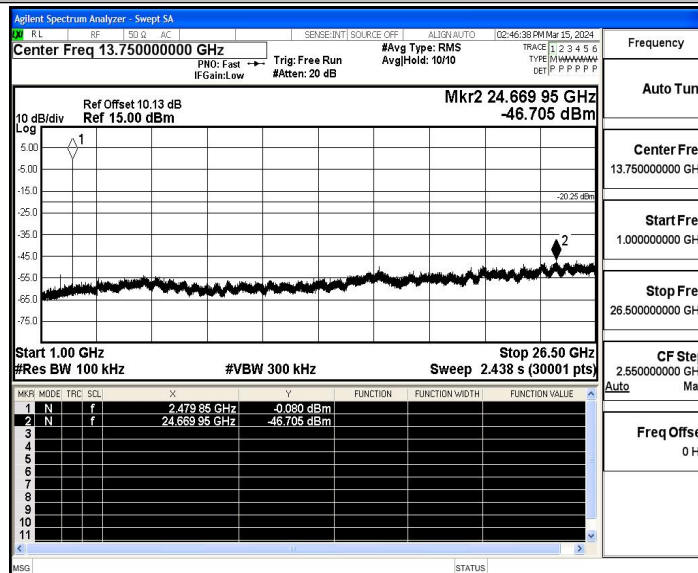


DH5_Ant1_2480_30~1000





DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

