



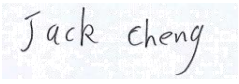
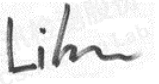
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: OS-825

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Jack Cheng
Supervised by:	 Li Huan





A.1 20dB Emission Bandwidth

Test Result

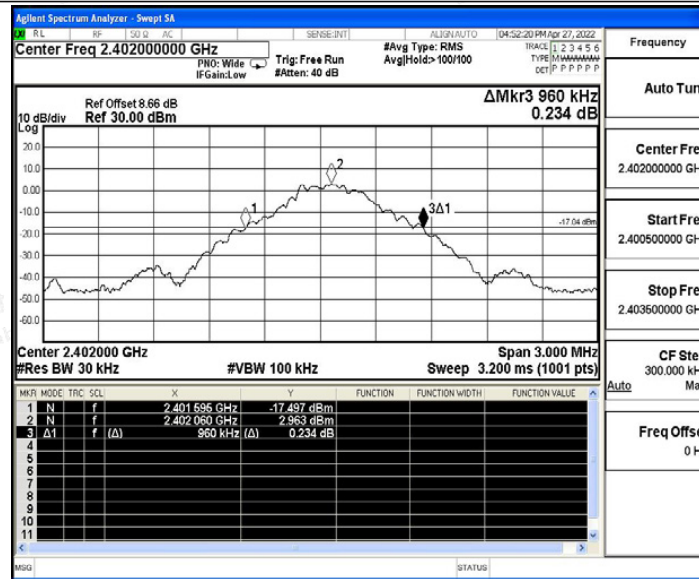
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.595	2402.555	---	---
		2441	0.960	2440.595	2441.555	---	---
		2480	0.960	2479.598	2480.558	---	---
2DH5	Ant1	2402	1.347	2401.391	2402.738	---	---
		2441	1.329	2440.397	2441.726	---	---
		2480	1.323	2479.400	2480.723	---	---
3DH5	Ant1	2402	1.311	2401.409	2402.720	---	---
		2441	1.314	2440.409	2441.723	---	---
		2480	1.332	2479.400	2480.732	---	---



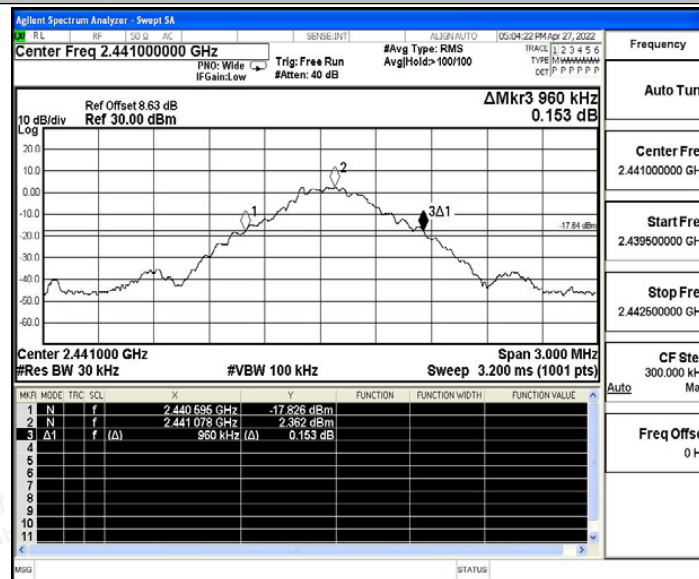


Test Graphs

DH5_Ant1_2402

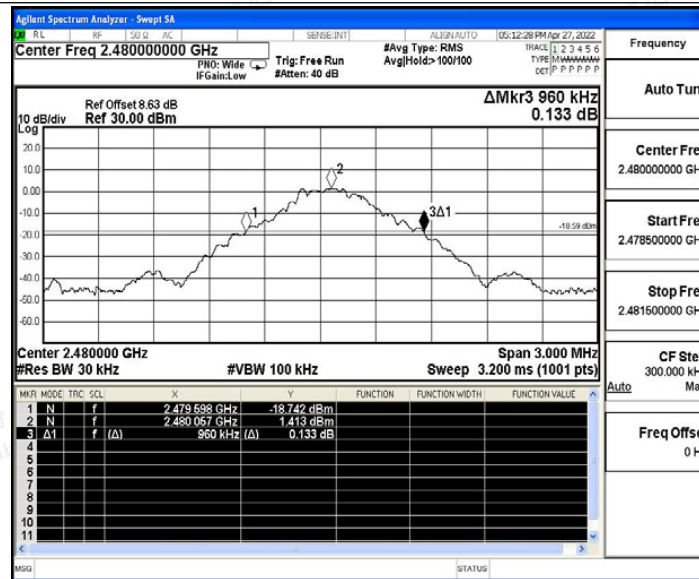


DH5_Ant1_2441

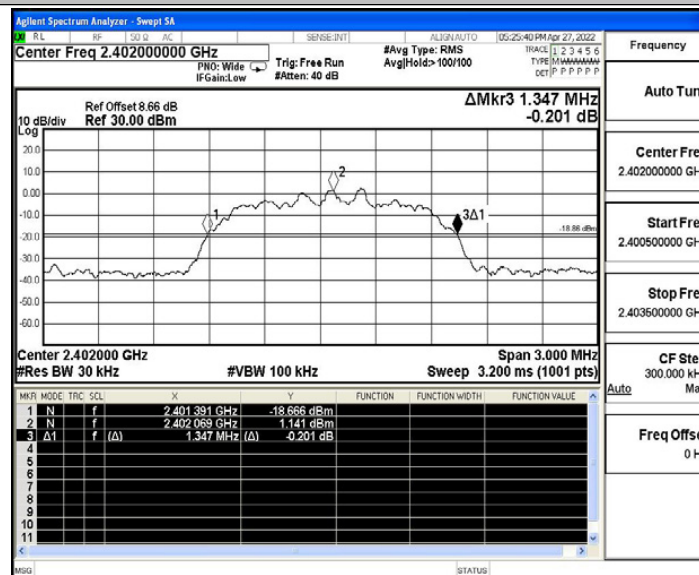


DH5_Ant1_2480



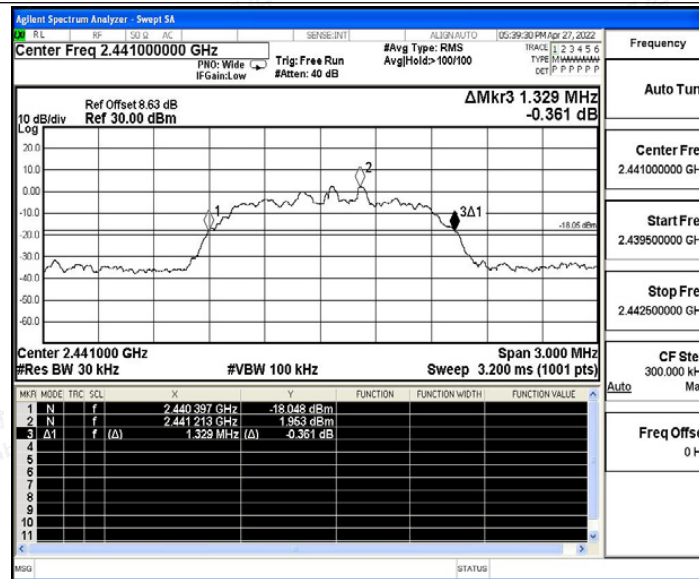


2DH5_Ant1_2402

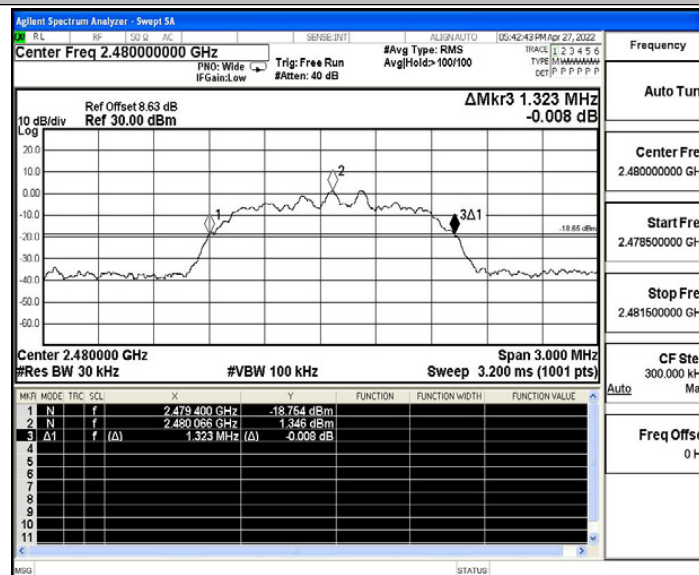


2DH5_Ant1_2441



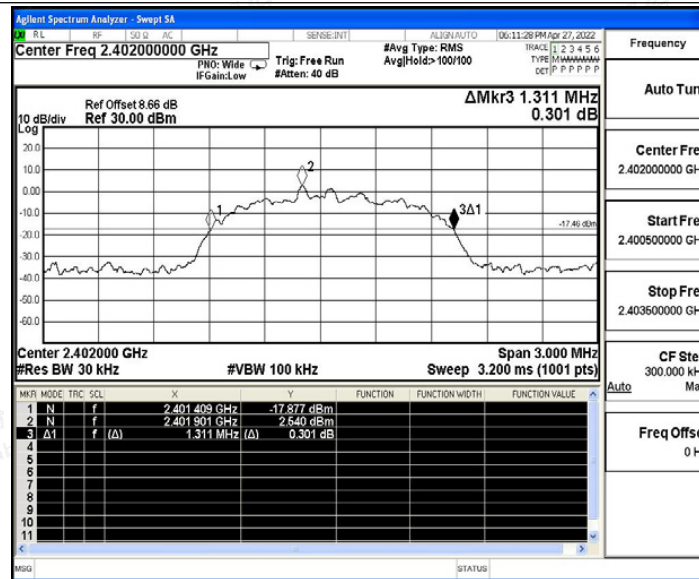


2DH5_Ant1_2480

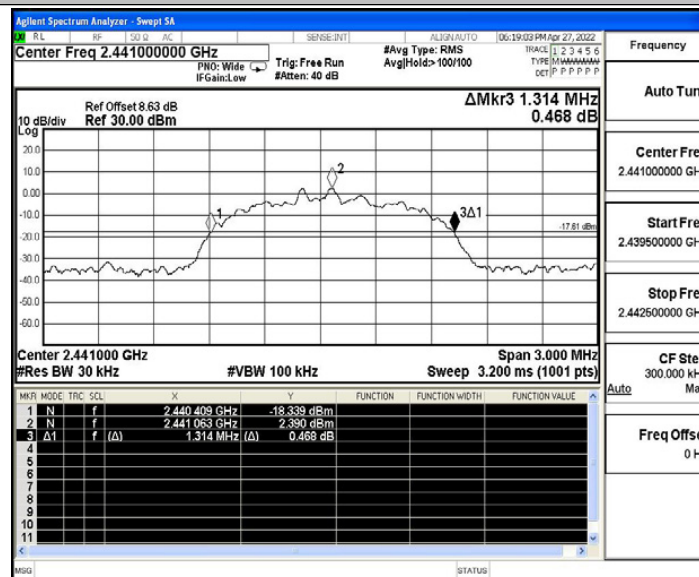


3DH5_Ant1_2402



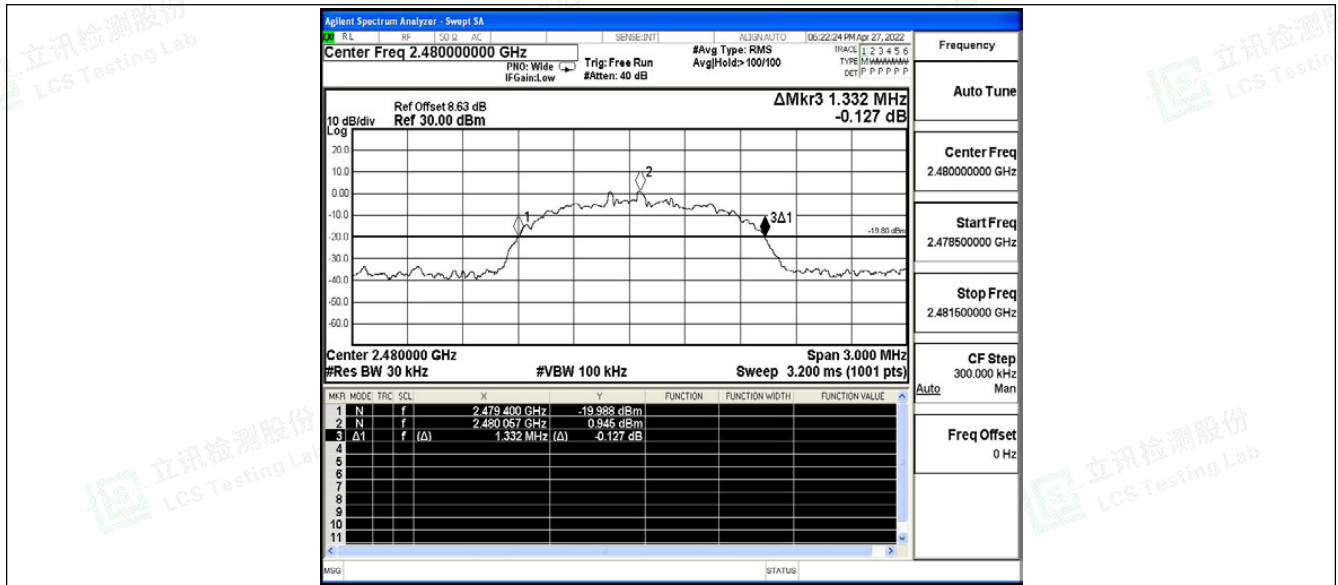


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

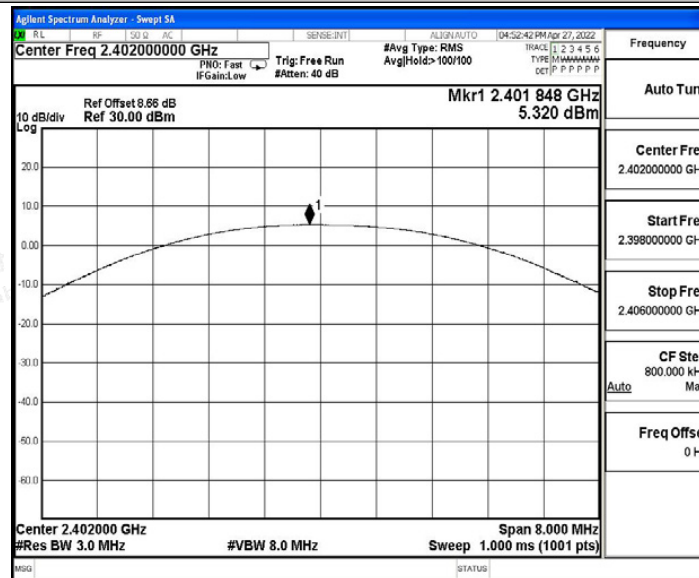
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.32	≤20.97	PASS
		2441	4.92	≤20.97	PASS
		2480	4.04	≤20.97	PASS
2DH5	Ant1	2402	5.73	≤20.97	PASS
		2441	5.34	≤20.97	PASS
		2480	4.48	≤20.97	PASS
3DH5	Ant1	2402	5.9	≤20.97	PASS
		2441	5.49	≤20.97	PASS
		2480	4.67	≤20.97	PASS



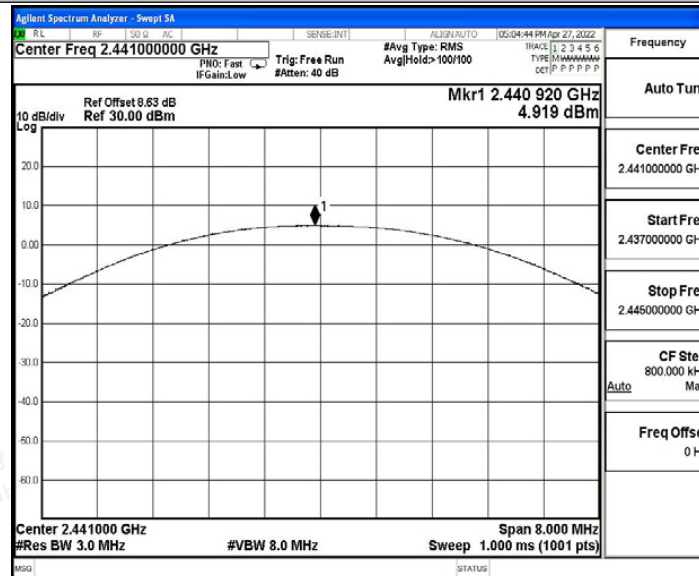


Test Graphs

DH5_Ant1_2402

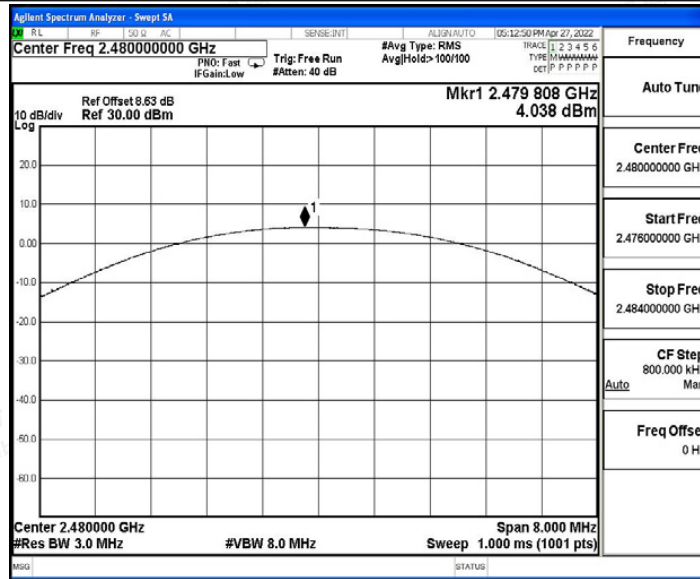


DH5_Ant1_2441

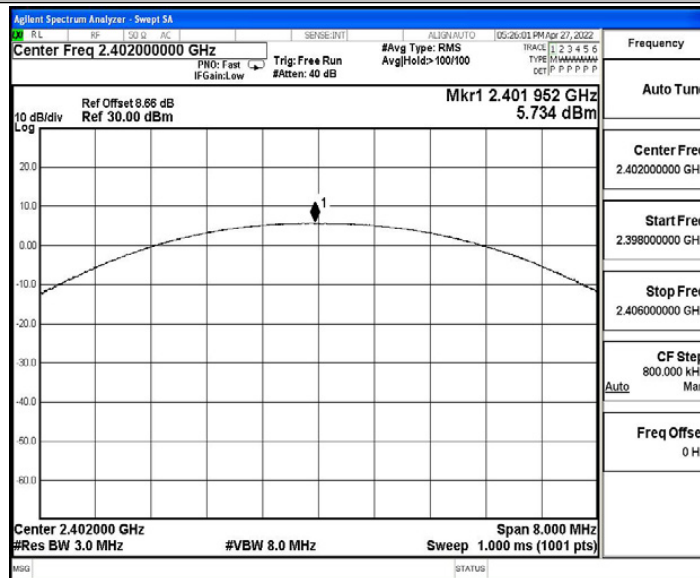


DH5_Ant1_2480



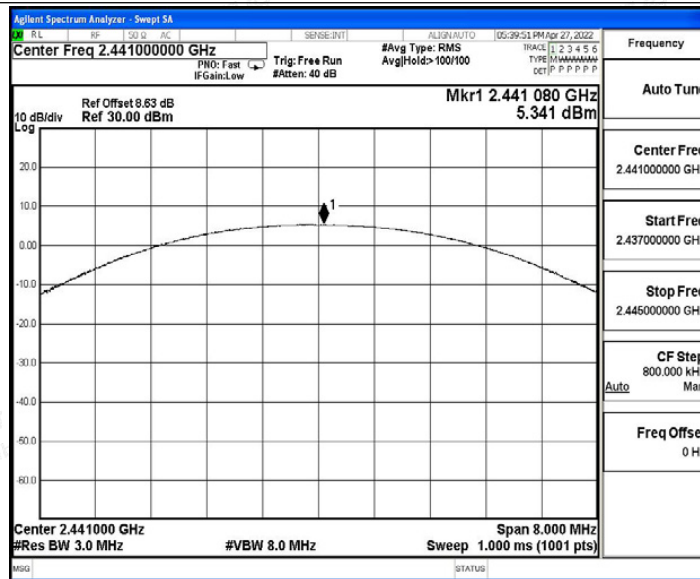


2DH5_Ant1_2402

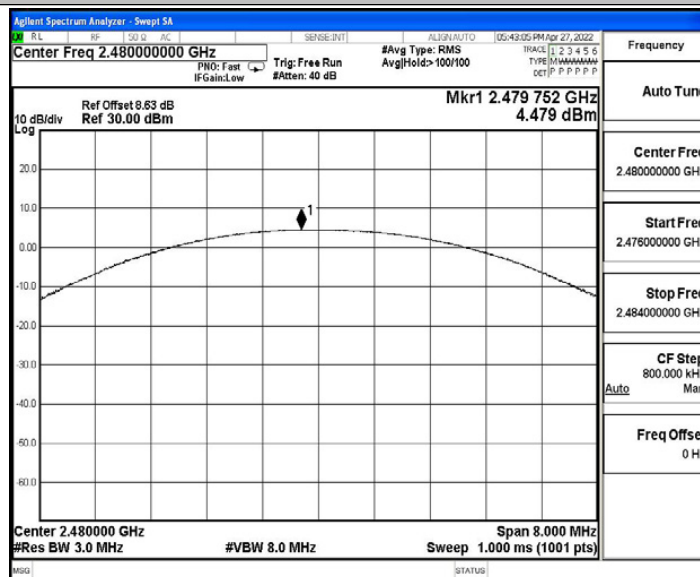


2DH5_Ant1_2441



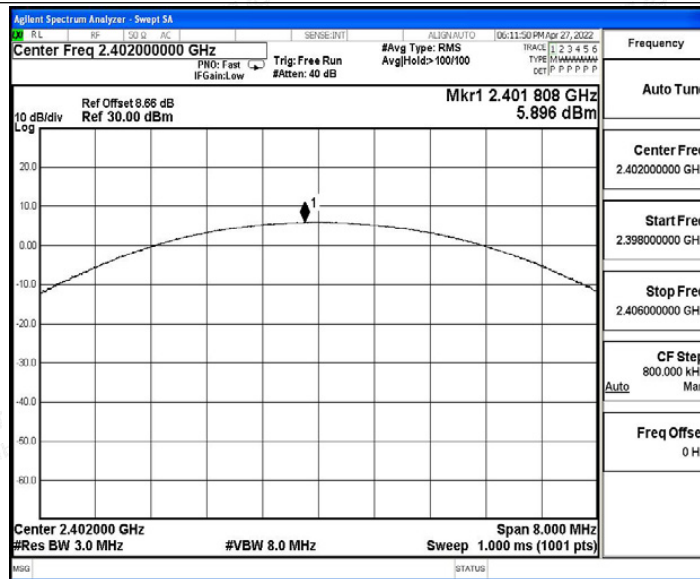


2DH5_Ant1_2480

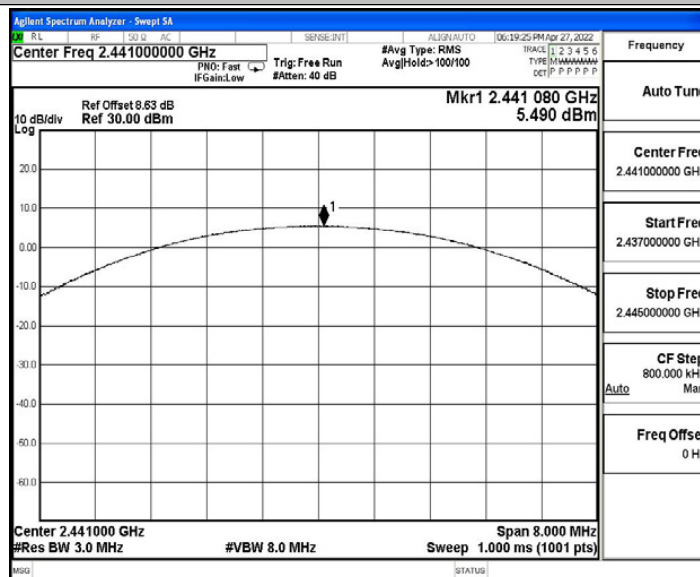


3DH5_Ant1_2402



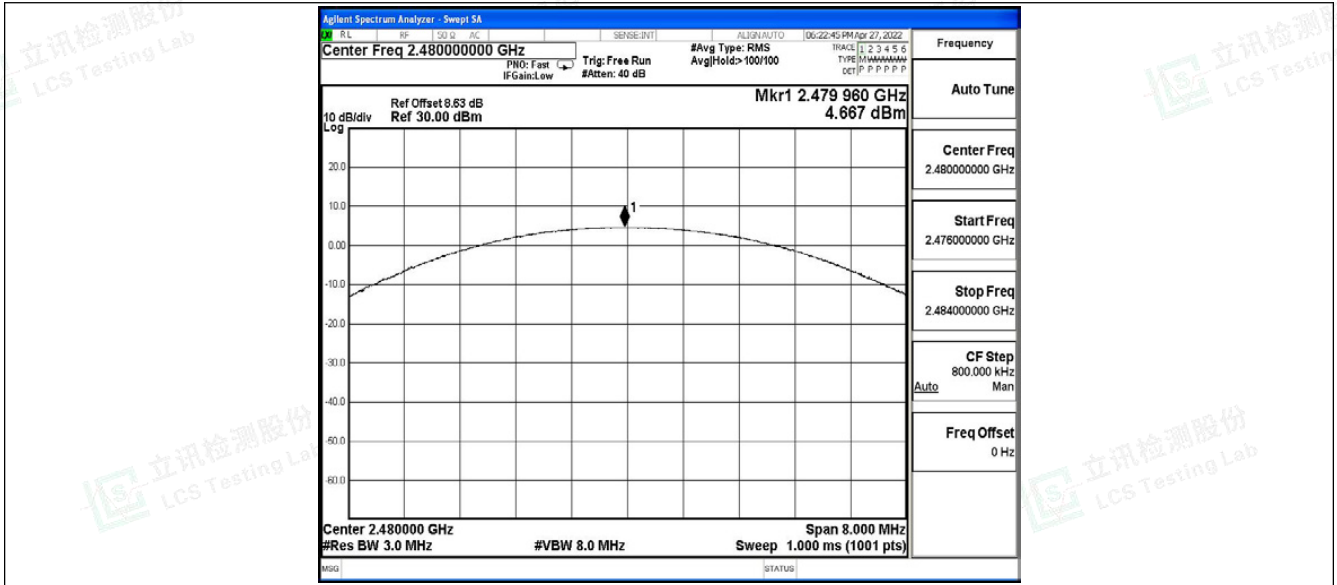


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

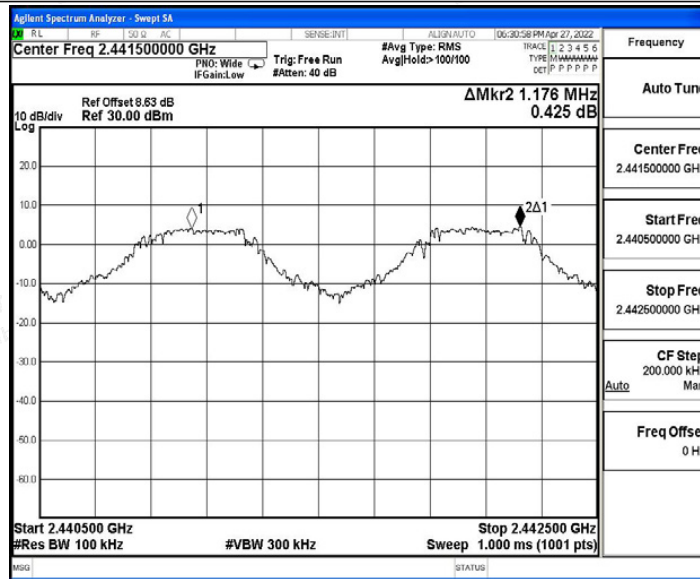
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.176	≥ 0.960	PASS
2DH5	Ant1	Hop	1.174	≥ 0.898	PASS
3DH5	Ant1	Hop	1.122	≥ 0.888	PASS



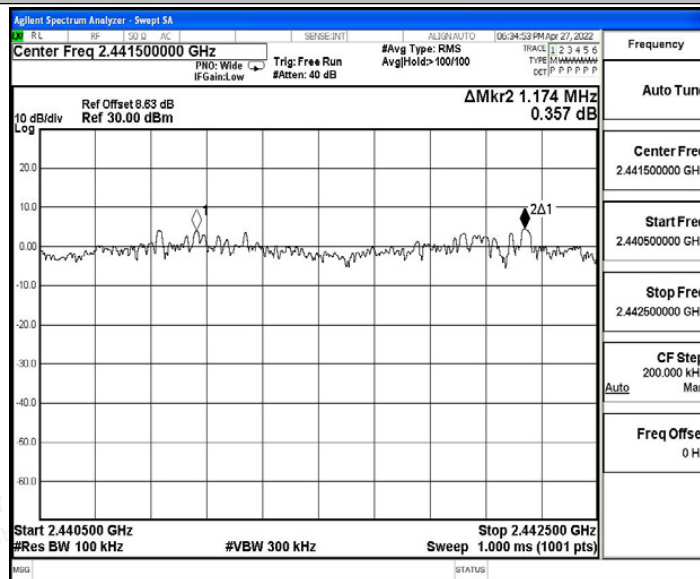


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





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A.4 Time of occupancy

Test Result

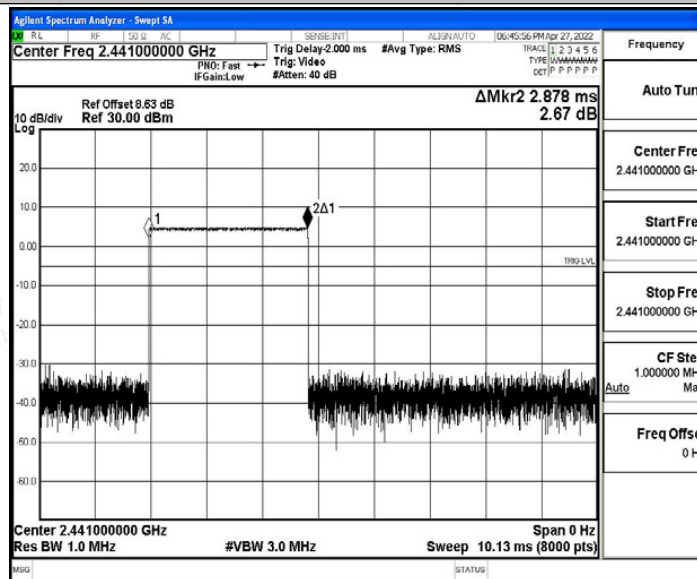
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



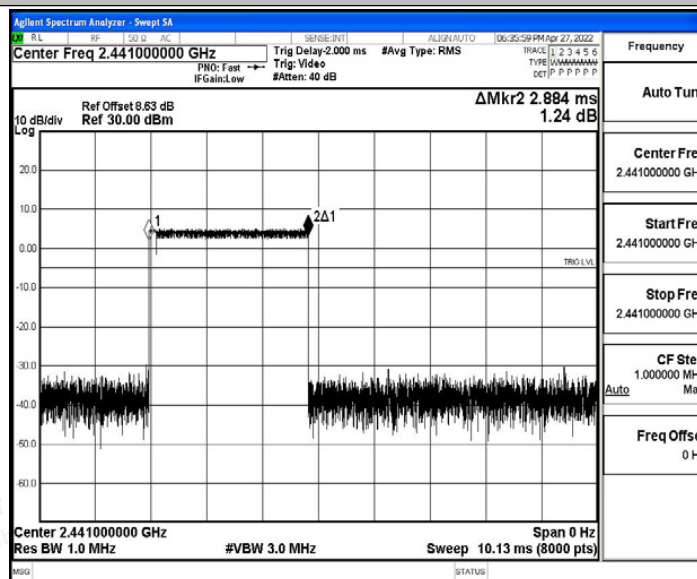


Test Graphs

DH5_Ant1_Hop

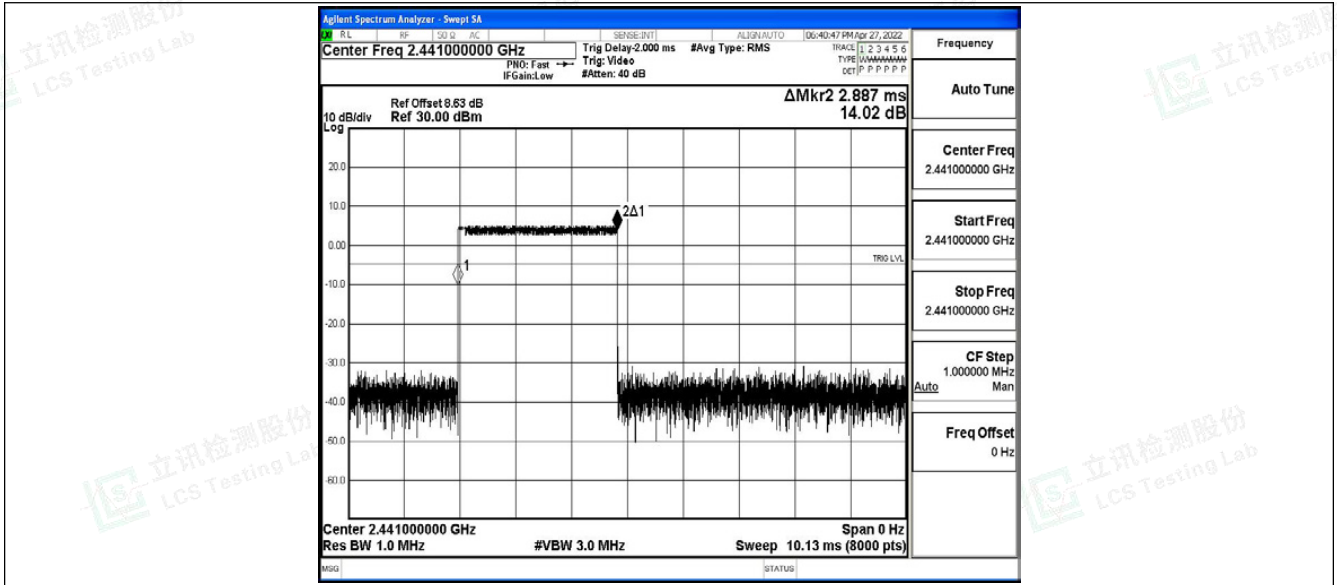


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

Test Result

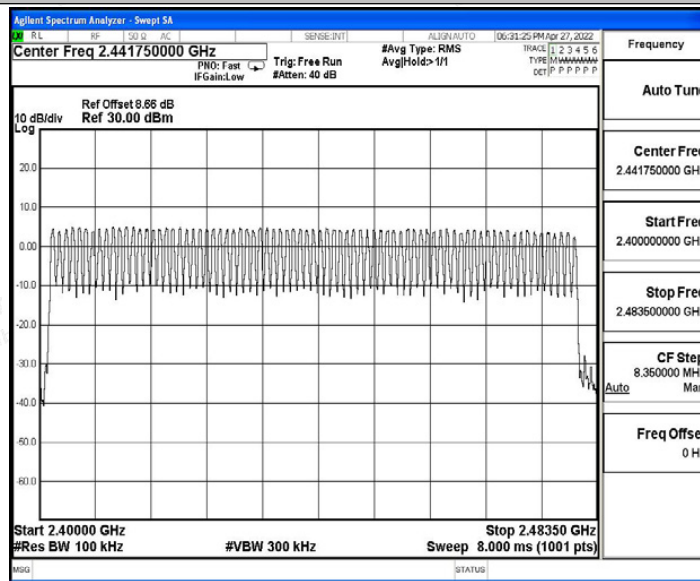
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS



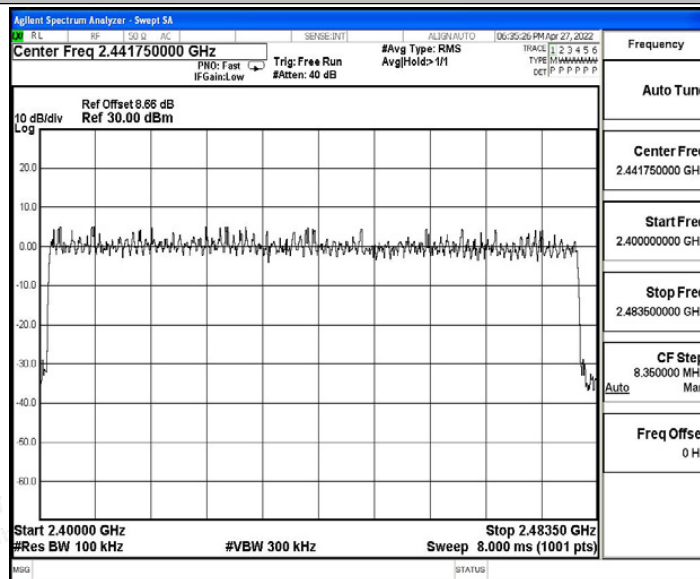


Test Graphs

DH5_Ant1_Hop

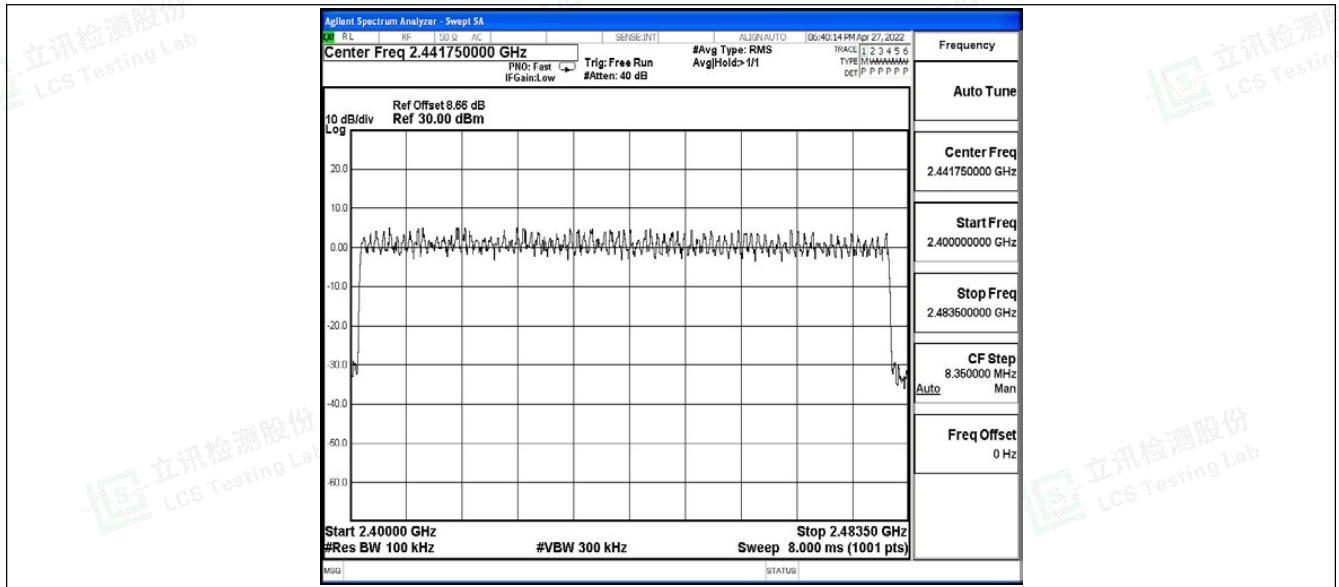


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

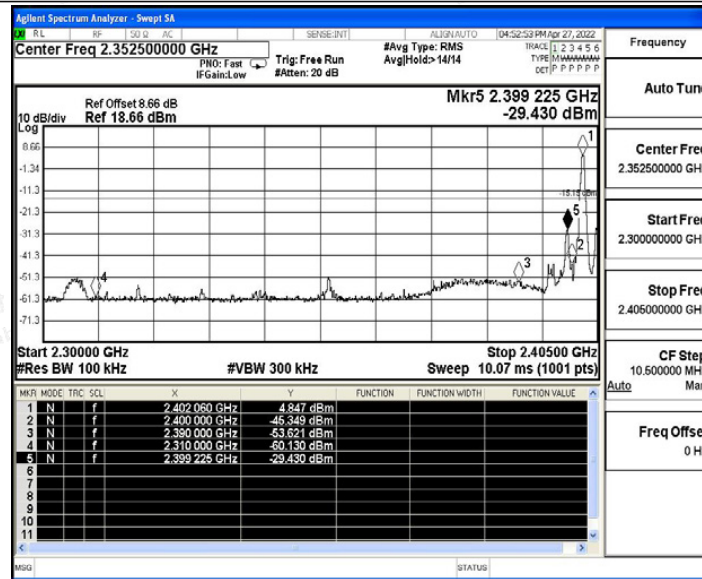
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.85	-30.1	≤ -15.15	PASS
		High	2480	3.72	-29.29	≤ -16.29	PASS
		Low	Hop_2402	4.32	-49.96	≤ -15.68	PASS
		High	Hop_2480	4.14	-50.04	≤ -15.86	PASS
2DH5	Ant1	Low	2402	4.95	-29.48	≤ -15.05	PASS
		High	2480	3.66	-29.59	≤ -16.34	PASS
		Low	Hop_2402	4.55	-50.91	≤ -15.45	PASS
		High	Hop_2480	3.53	-50.47	≤ -16.47	PASS
3DH5	Ant1	Low	2402	4.97	-31.56	≤ -15.03	PASS
		High	2480	3.71	-29.76	≤ -16.29	PASS
		Low	Hop_2402	1.35	-50.68	≤ -18.65	PASS
		High	Hop_2480	4.08	-50.9	≤ -15.92	PASS



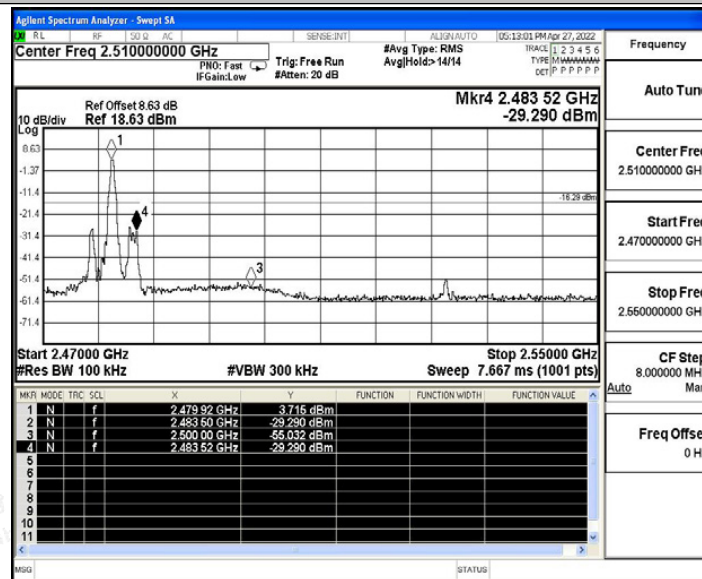


Test Graphs

DH5_Ant1_Low_2402

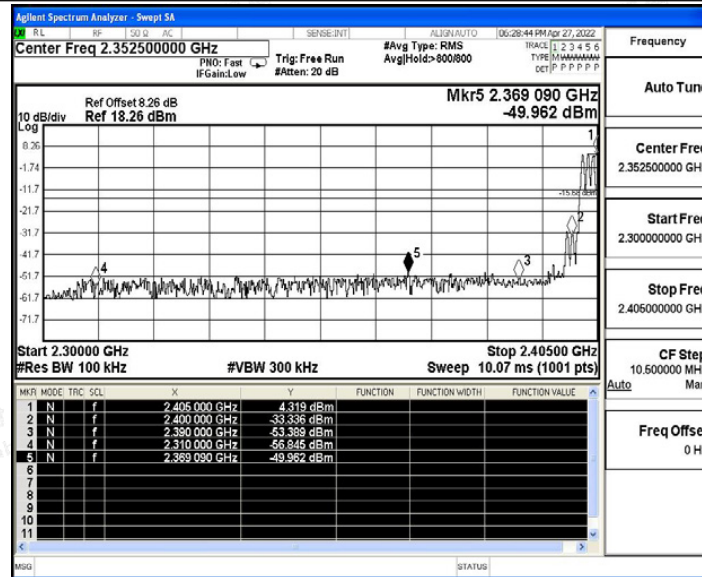


DH5_Ant1_High_2480

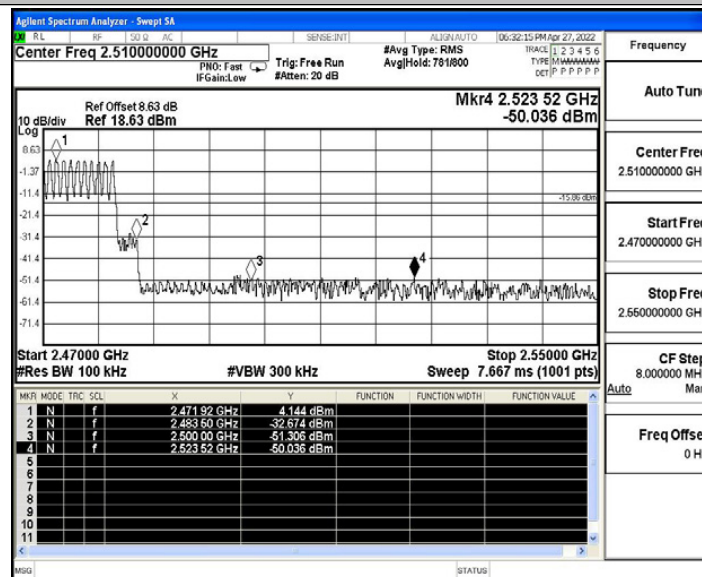


DH5_Ant1_Low_Hop_2402



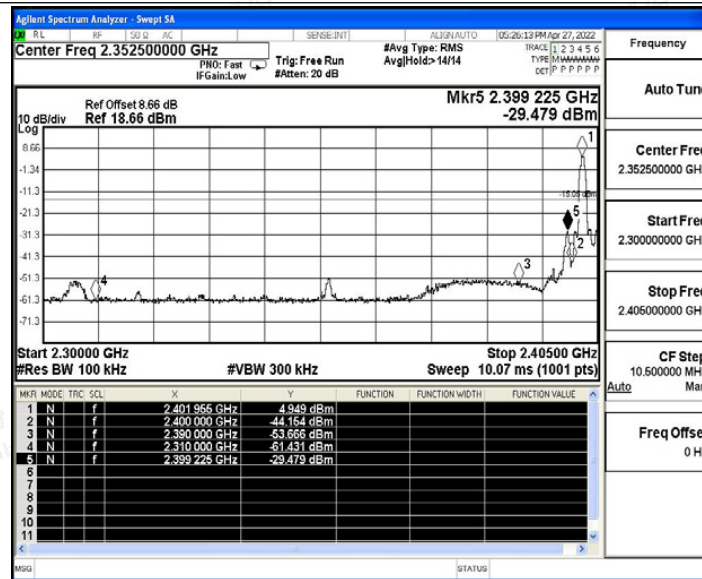


DH5_Ant1_High_Hop_2480

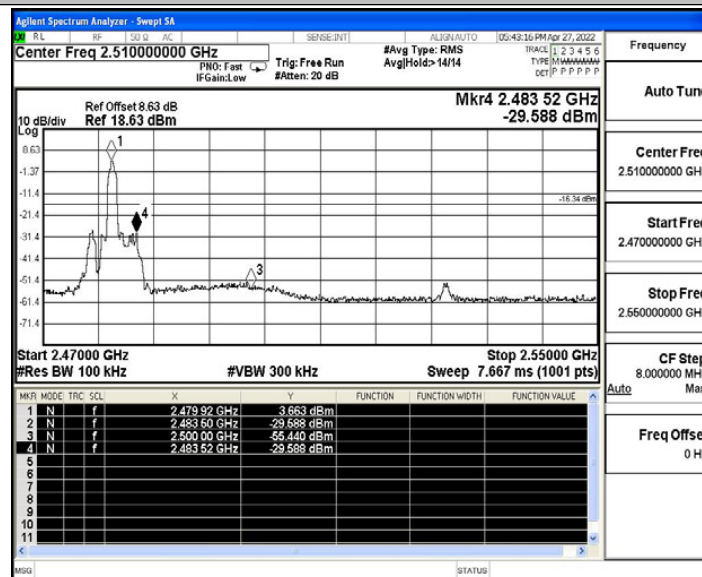


2DH5_Ant1_Low_2402





2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

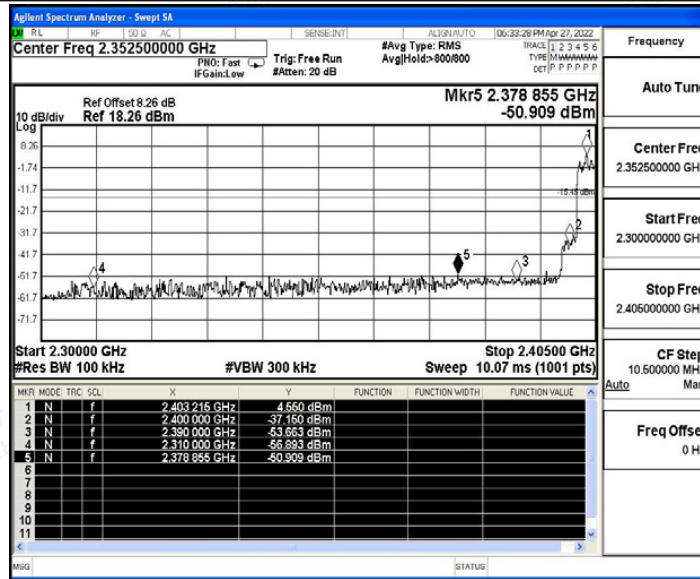


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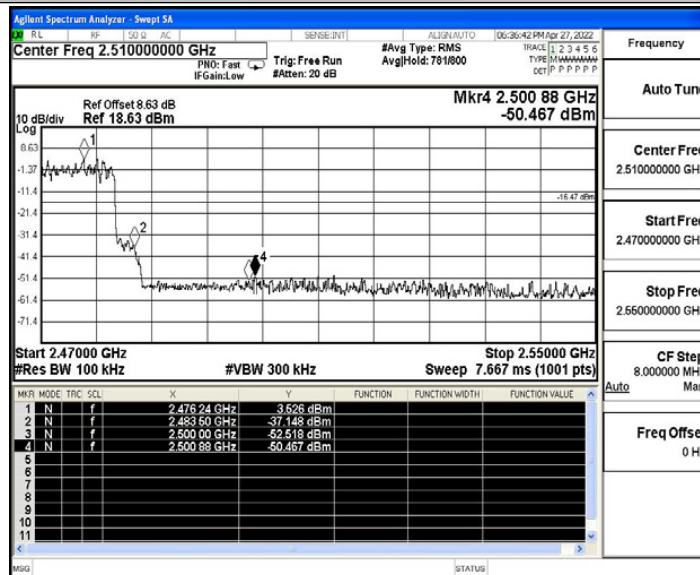
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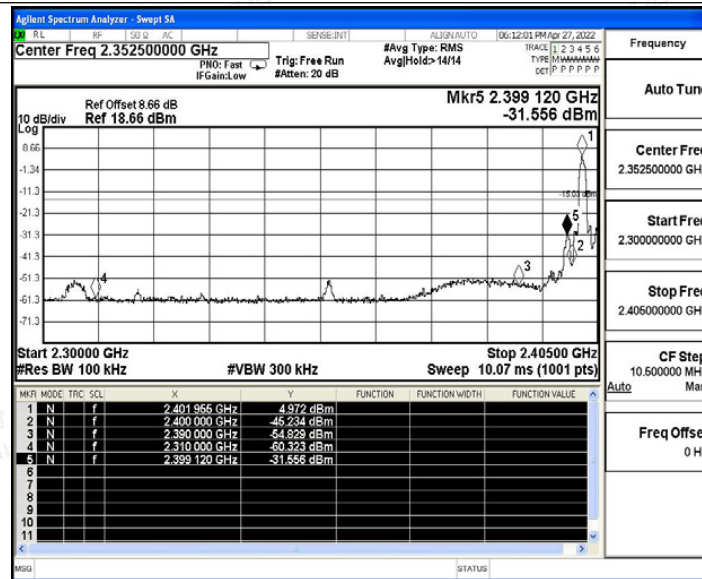


2DH5_Ant1_High_Hop_2480

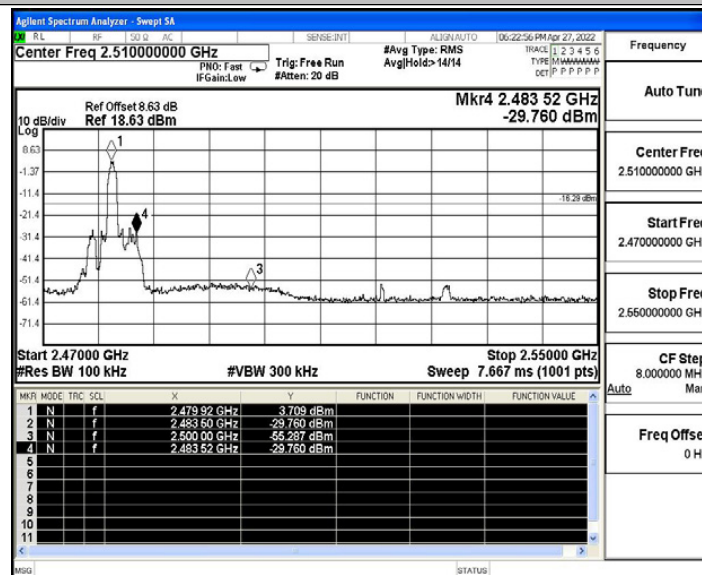


3DH5_Ant1_Low_2402



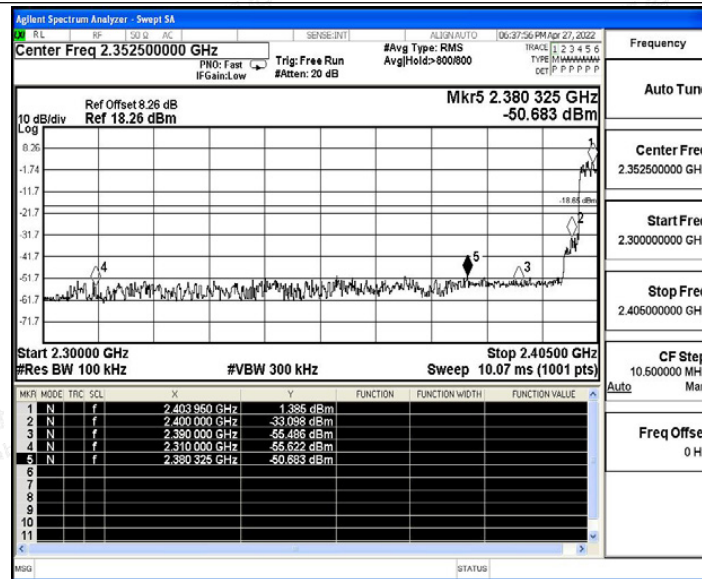


3DH5_Ant1_High_2480

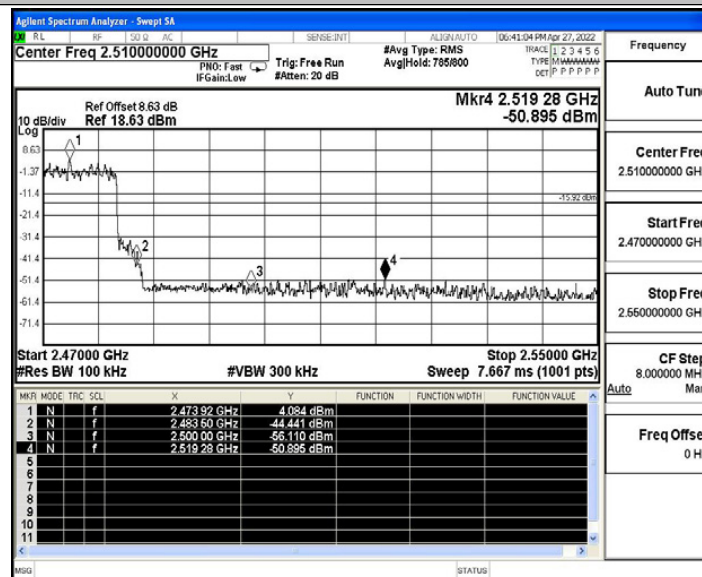


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-47.22	≤-15.46	PASS
			1000~26500	4.54	-42.4	≤-15.46	PASS
		2441	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-47.58	≤-15.39	PASS
			1000~26500	4.61	-43.32	≤-15.39	PASS
		2480	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-47.85	≤-16.28	PASS
			1000~26500	3.72	-45.53	≤-16.28	PASS
2DH5	Ant1	2402	Reference	4.86	4.86	---	PASS
			30~1000	4.86	-48.11	≤-15.14	PASS
			1000~26500	4.86	-43.71	≤-15.14	PASS
		2441	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-46.16	≤-15.51	PASS
			1000~26500	4.49	-43.18	≤-15.51	PASS
		2480	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-46.65	≤-16.4	PASS
			1000~26500	3.60	-45.03	≤-16.4	PASS
3DH5	Ant1	2402	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-46.42	≤-15.07	PASS
			1000~26500	4.93	-45.47	≤-15.07	PASS
		2441	Reference	4.48	4.48	---	PASS
			30~1000	4.48	-46.41	≤-15.52	PASS
			1000~26500	4.48	-44.22	≤-15.52	PASS
		2480	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-46.16	≤-16.26	PASS
			1000~26500	3.74	-44.97	≤-16.26	PASS



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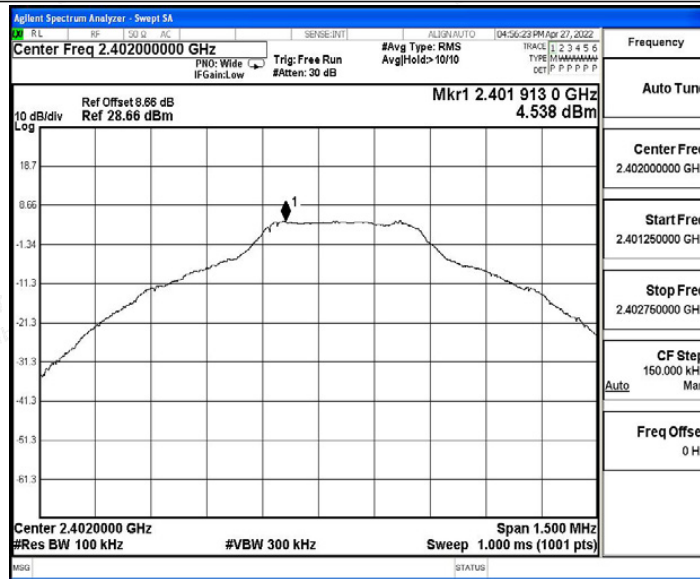
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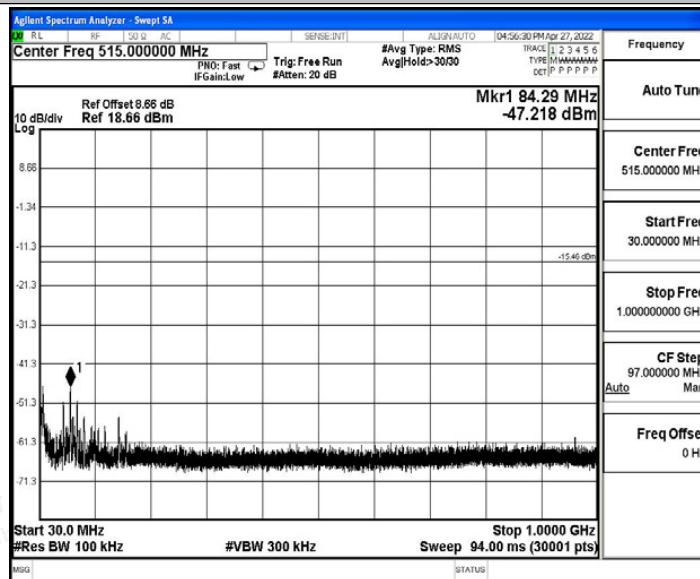


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

