



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LiberLive C1

Test Model: LiberLive C1

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





A.1 20dB Emission Bandwidth

Test Result

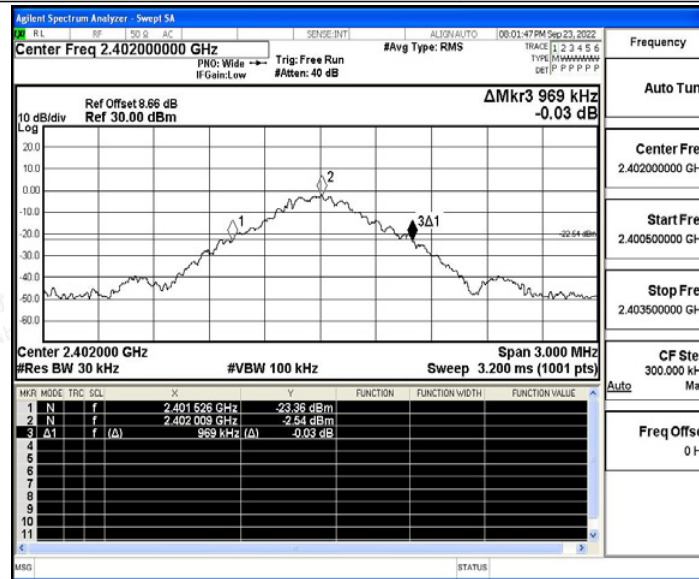
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.969	2401.526	2402.495	---
		2441	1.017	2440.469	2441.486	---
		2480	1.008	2479.481	2480.489	---
2DH5	Ant1	2402	1.296	2401.355	2402.651	---
		2441	1.293	2440.355	2441.648	---
		2480	1.326	2479.325	2480.651	---
3DH5	Ant1	2402	1.302	2401.343	2402.645	---
		2441	1.311	2440.340	2441.651	---
		2480	1.320	2479.334	2480.654	---



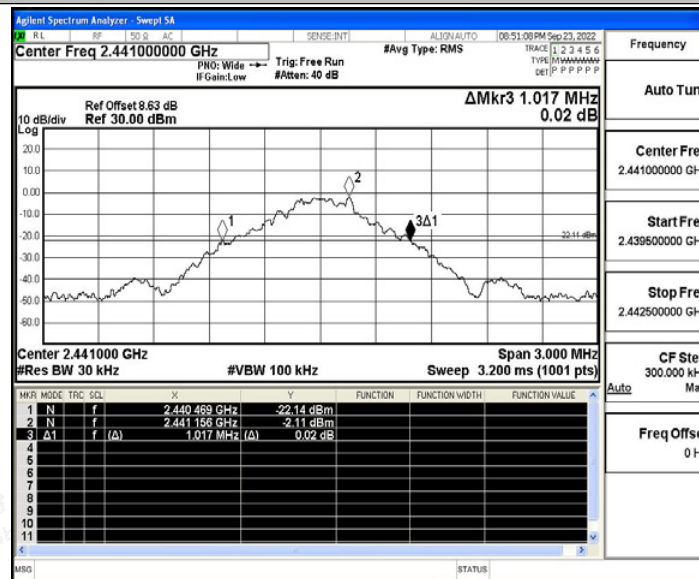


Test Graphs

DH5_Ant1_2402

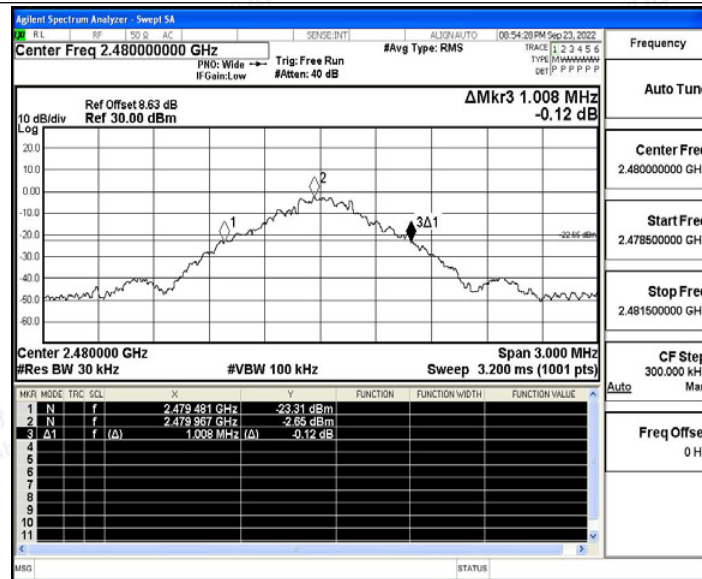


DH5_Ant1_2441

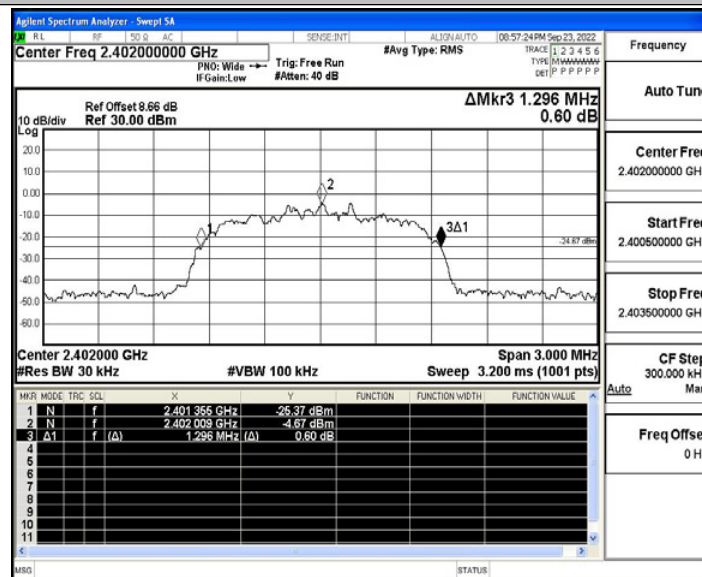


DH5_Ant1_2480



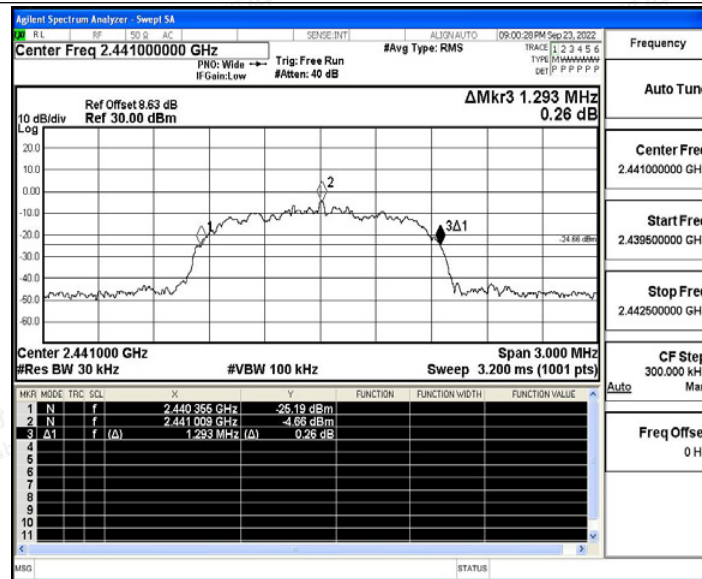


2DH5_Ant1_2402

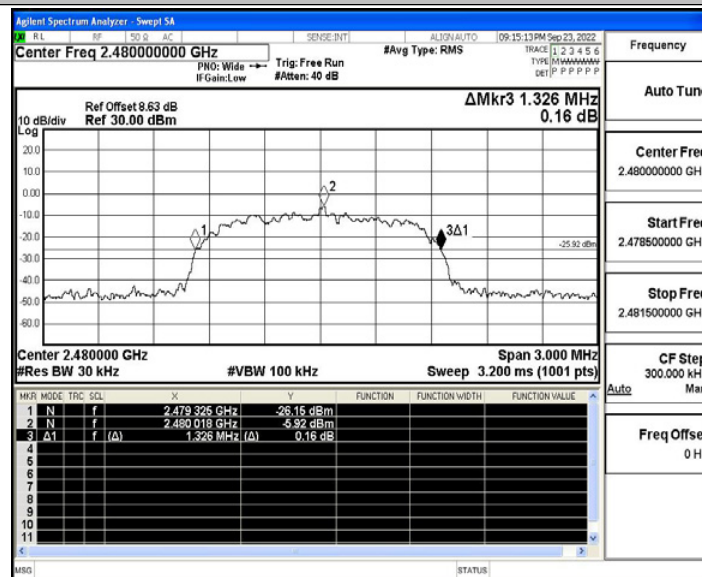


2DH5_Ant1_2441



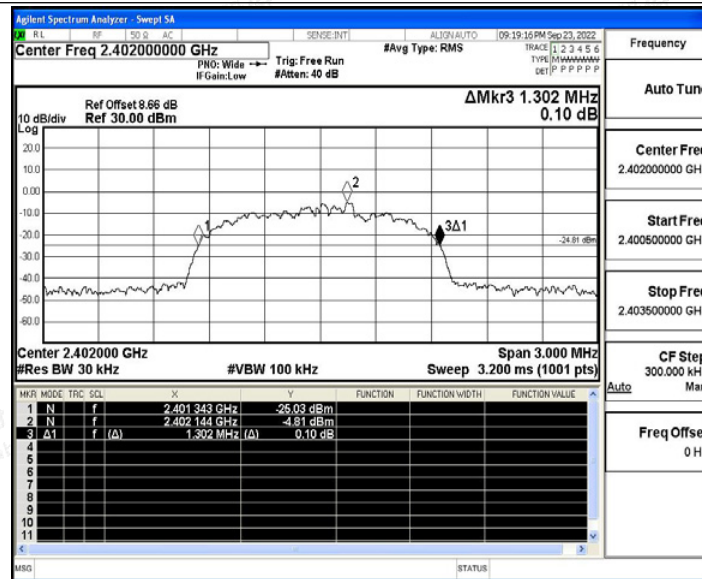


2DH5_Ant1_2480

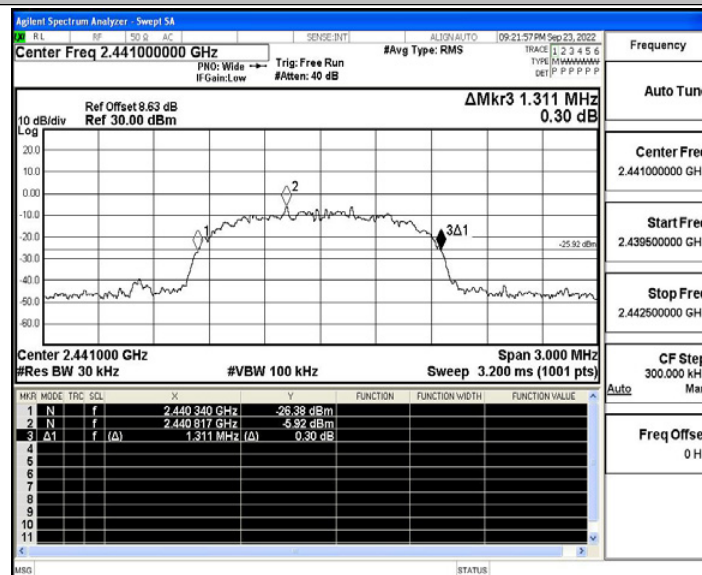


3DH5_Ant1_2402





3DH5_Ant1_2441



3DH5_Ant1_2480

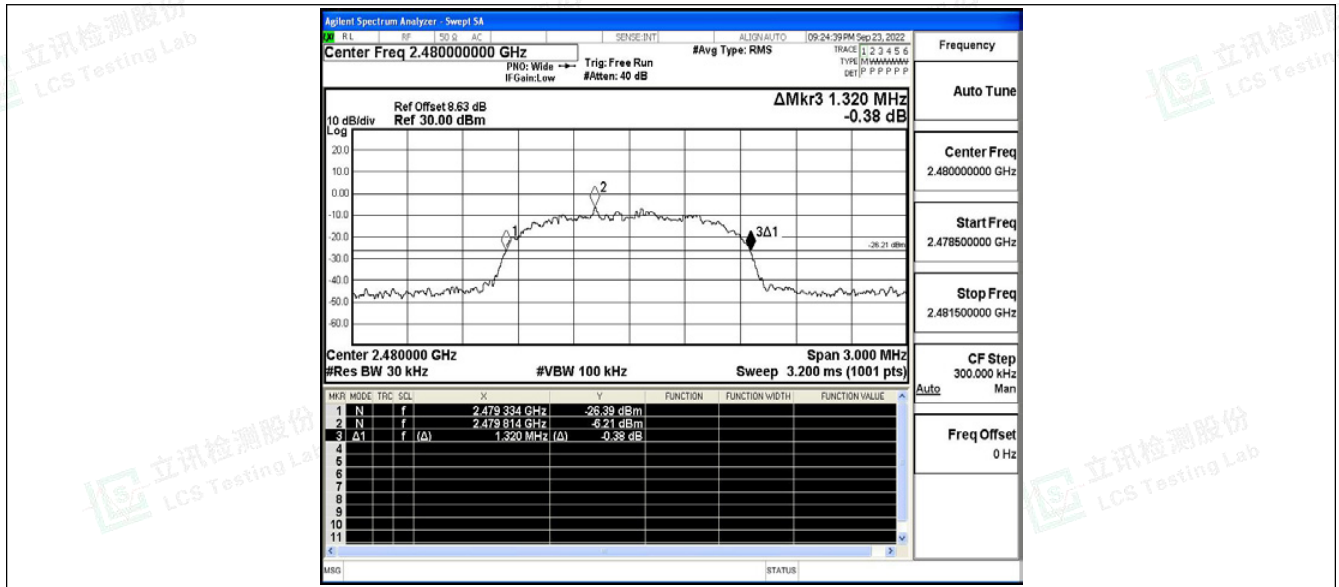


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Scan code to check authenticity





A.2 Maximum conducted output power

Test Result

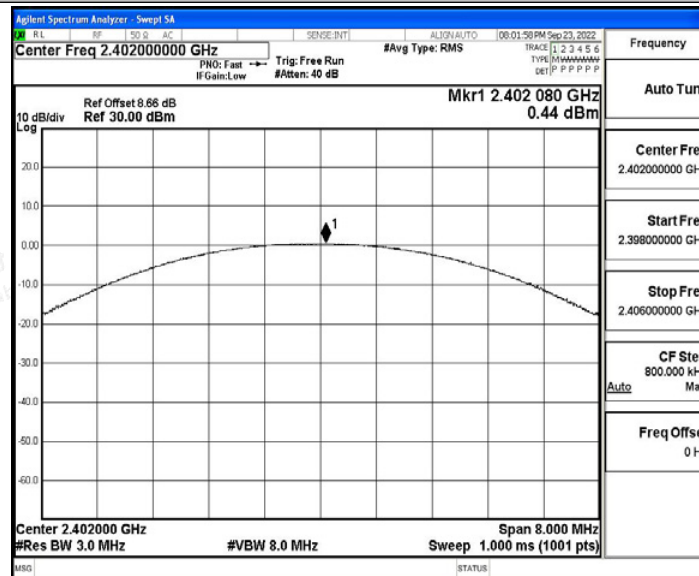
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.44	≤20.97	PASS
		2441	0.64	≤20.97	PASS
		2480	0.5	≤20.97	PASS
2DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.19	≤20.97	PASS
		2480	0.49	≤20.97	PASS
3DH5	Ant1	2402	0.47	≤20.97	PASS
		2441	0.52	≤20.97	PASS
		2480	0.39	≤20.97	PASS



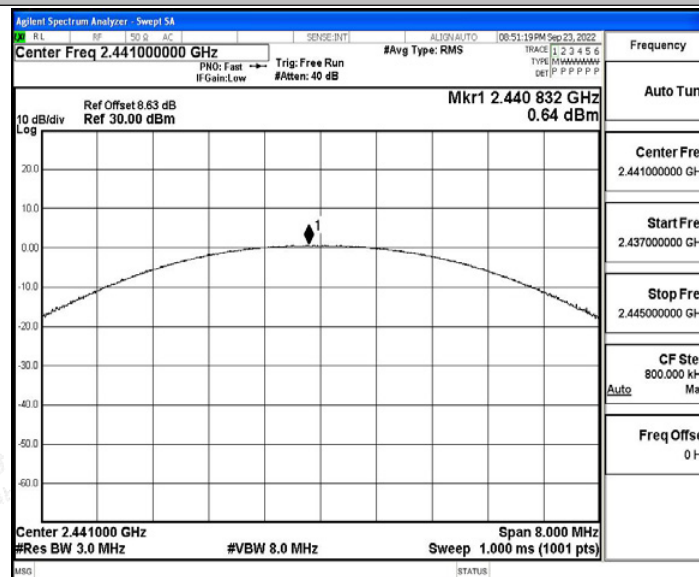


Test Graphs

DH5_Ant1_2402

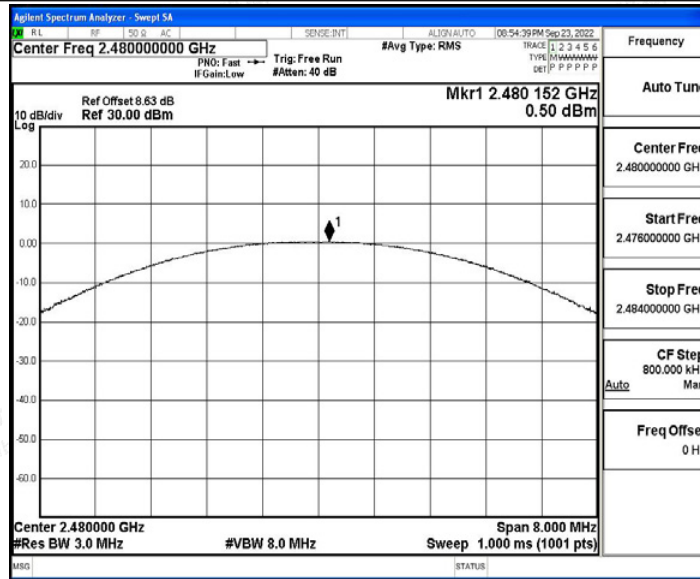


DH5_Ant1_2441

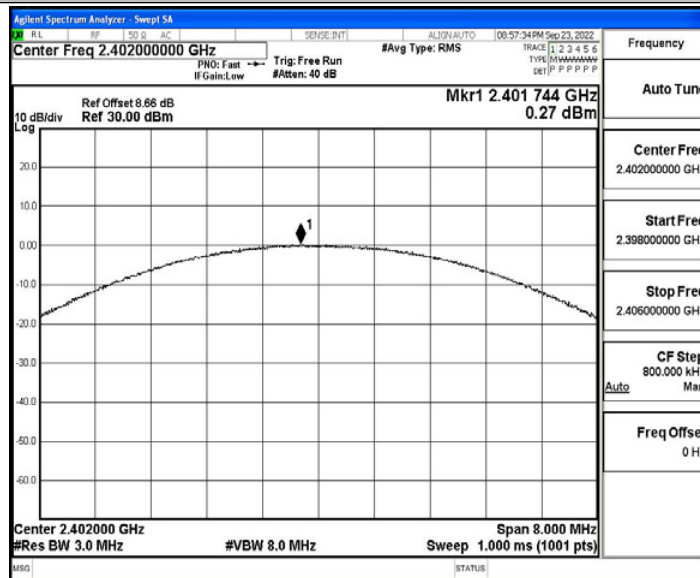


DH5_Ant1_2480



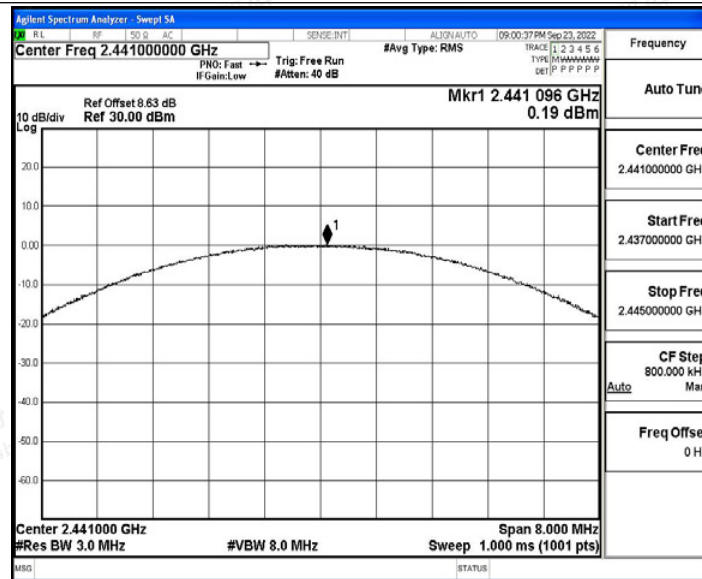


2DH5_Ant1_2402

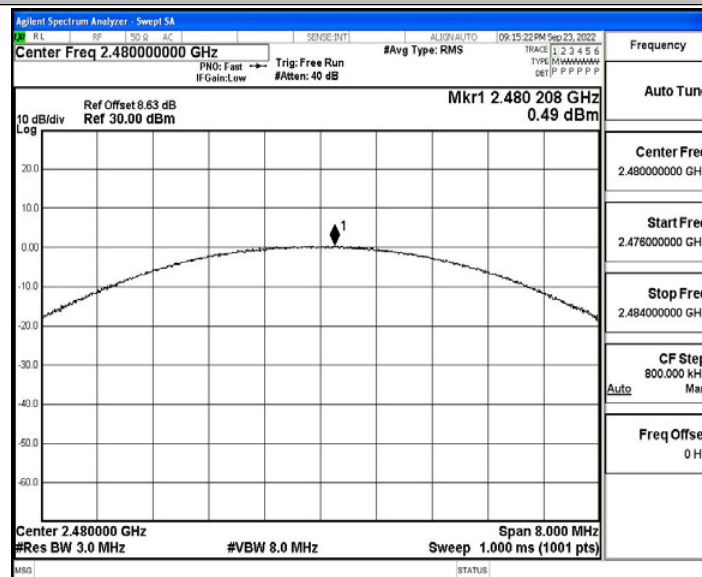


2DH5_Ant1_2441



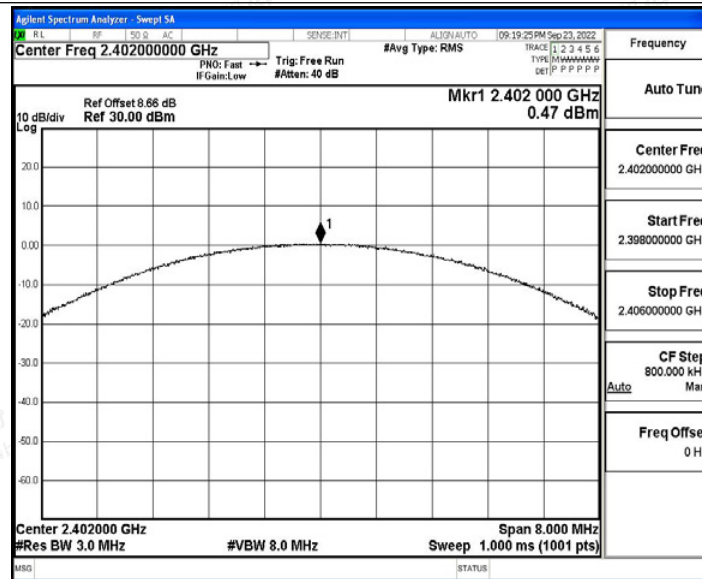


2DH5_Ant1_2480

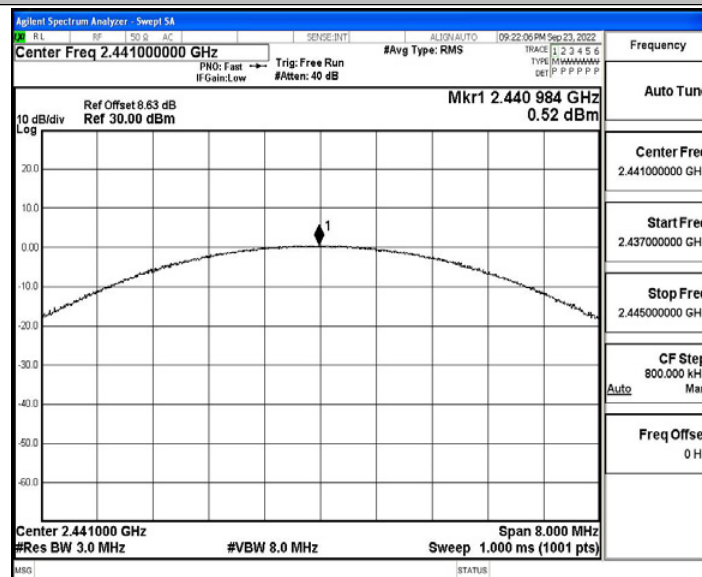


3DH5_Ant1_2402



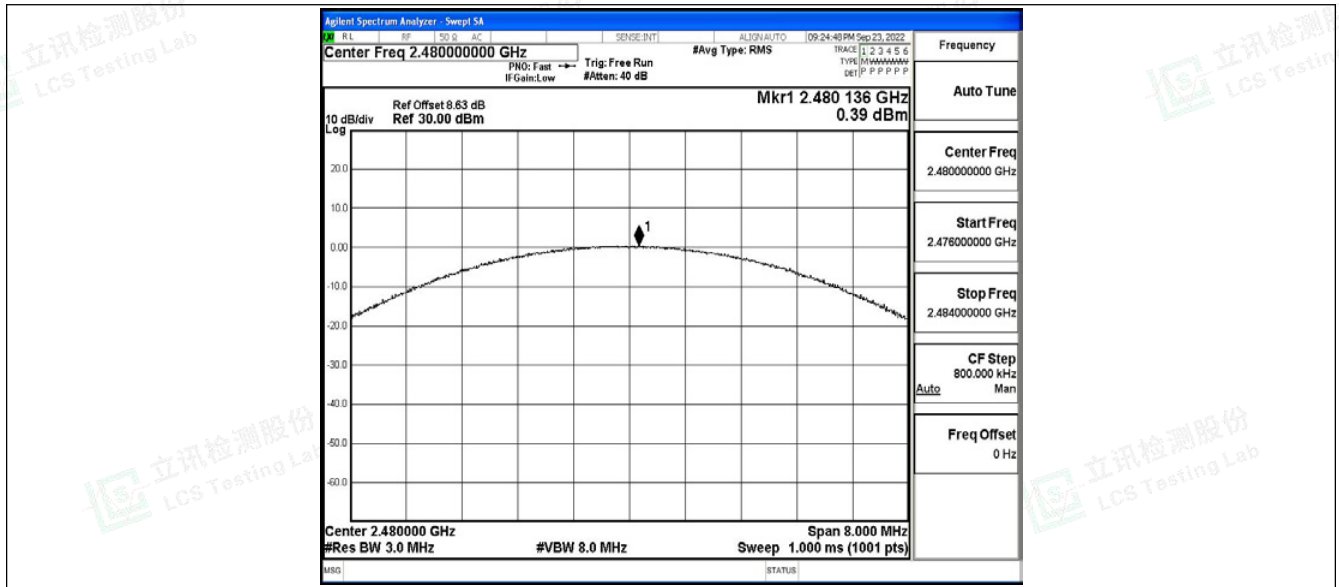


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

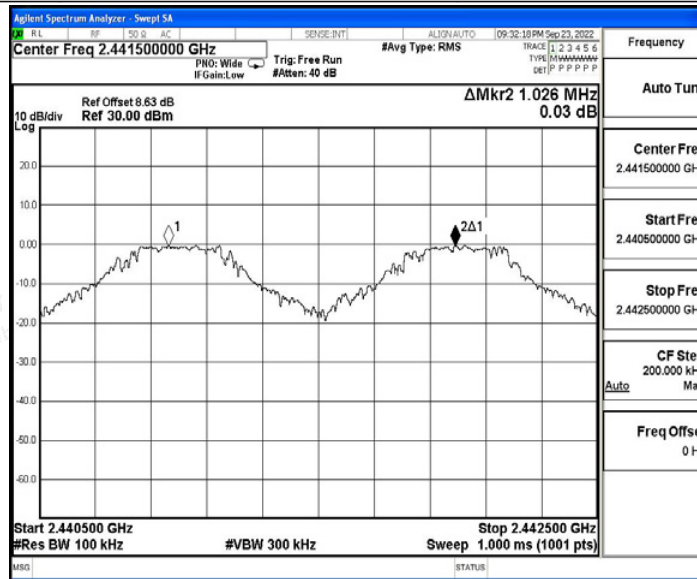
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.026	≥1.017	PASS
2DH5	Ant1	Hop	1.026	≥0.884	PASS
3DH5	Ant1	Hop	1.19	≥0.880	PASS



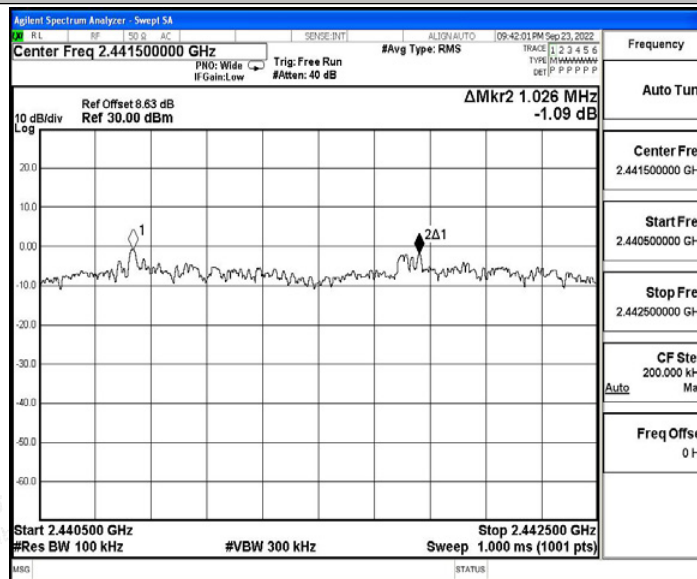


Test Graphs

DH5_Ant1_Hop

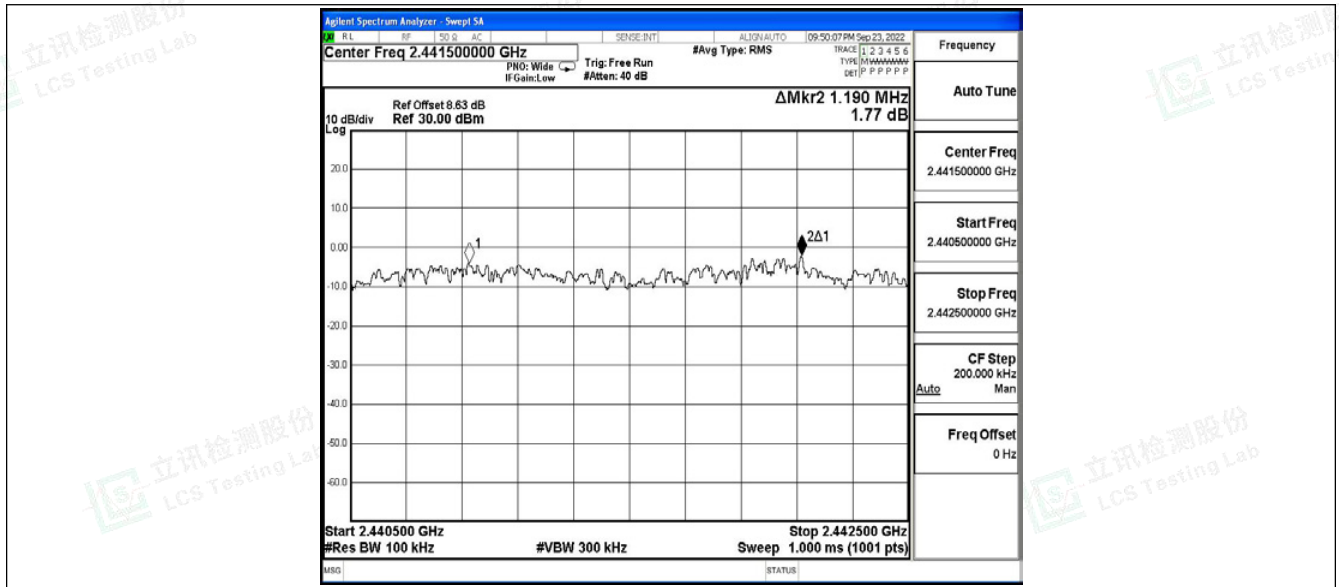


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

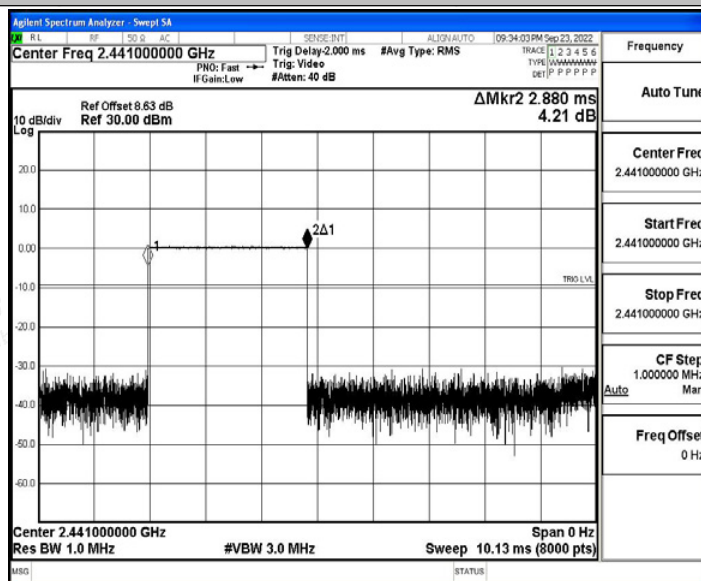
Test Result

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	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

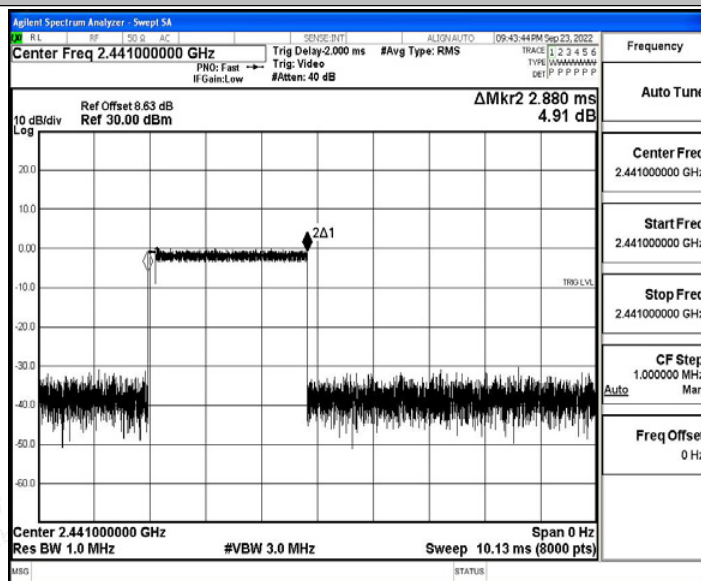


Test Graphs

DH5 Ant1 Hop

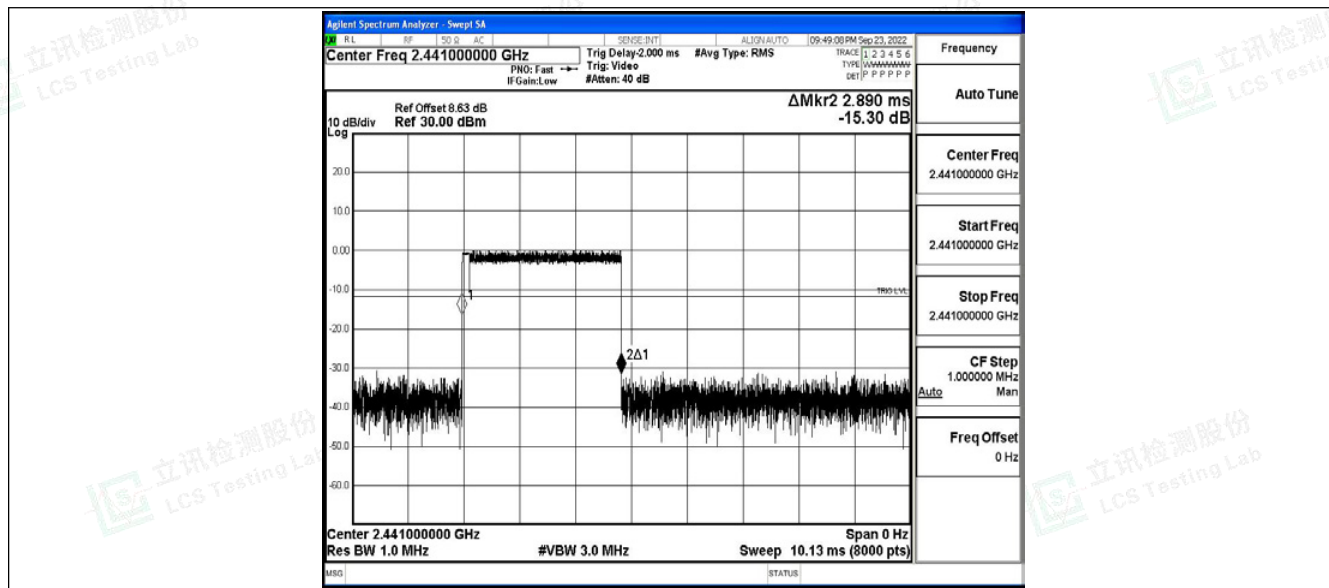


2DH5 Ant1 Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

Test Result

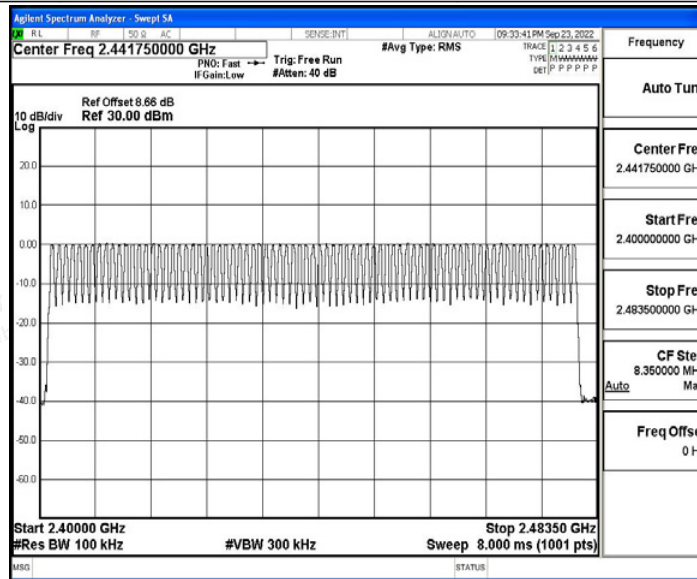
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



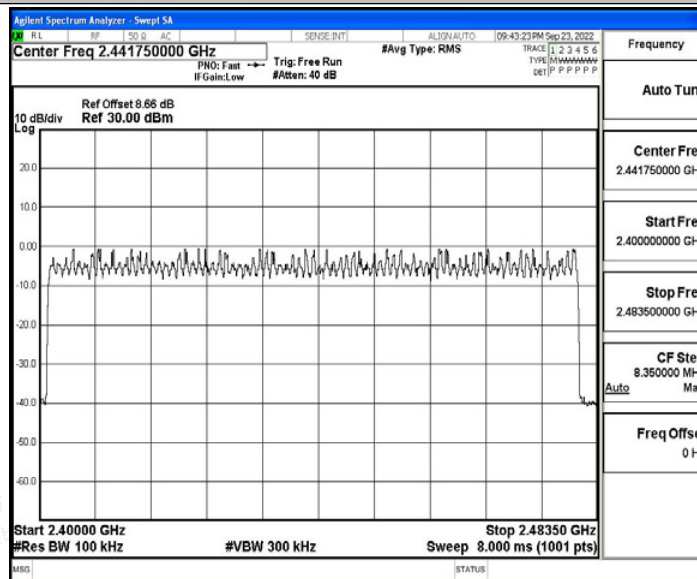


Test Graphs

DH5_Ant1_Hop

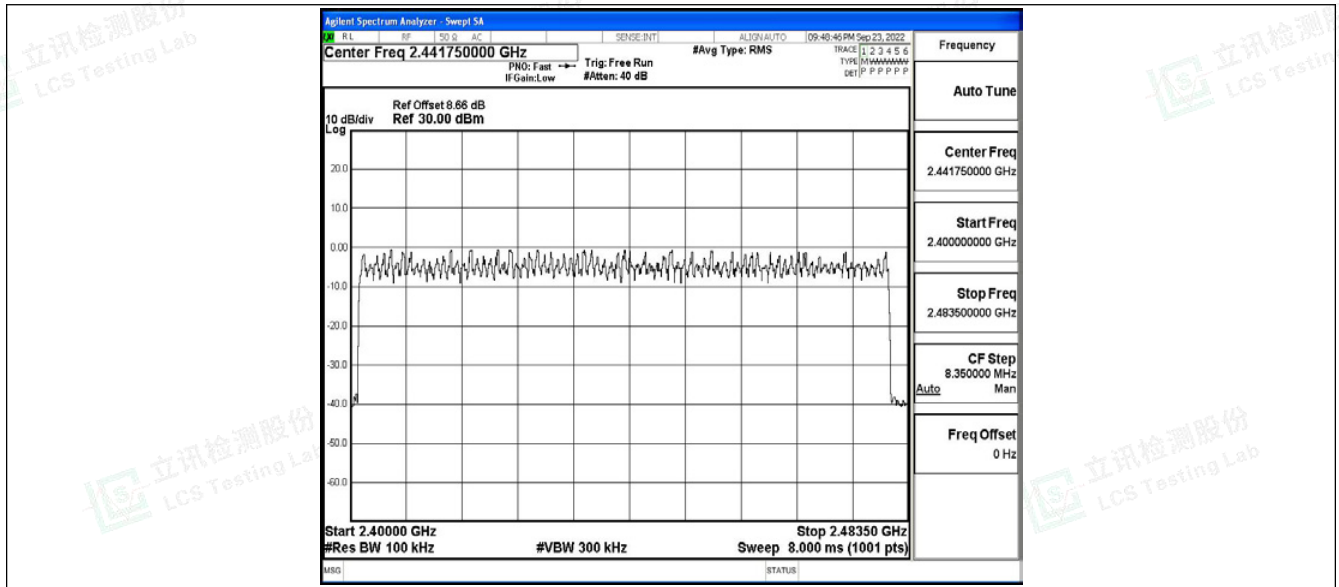


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

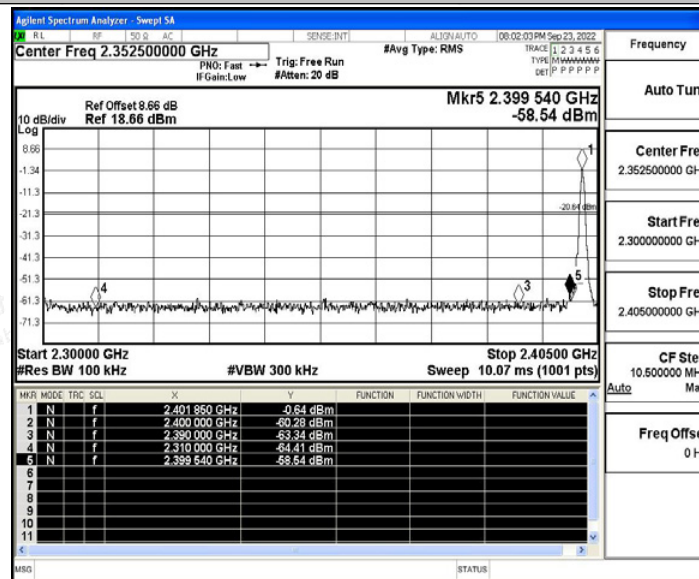
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.64	-58.54	≤ -20.64	PASS
		High	2480	-0.96	-59.36	≤ -20.96	PASS
		Low	Hop_2402	-0.57	-59.15	≤ -20.57	PASS
		High	Hop_2480	-0.03	-58.02	≤ -20.03	PASS
2DH5	Ant1	Low	2402	-4.93	-58.81	≤ -24.93	PASS
		High	2480	-5.75	-59.48	≤ -25.75	PASS
		Low	Hop_2402	-4.91	-58.83	≤ -24.91	PASS
		High	Hop_2480	-1.08	-57.4	≤ -21.08	PASS
3DH5	Ant1	Low	2402	-4.53	-57.56	≤ -24.53	PASS
		High	2480	-4.10	-59.11	≤ -24.1	PASS
		Low	Hop_2402	-4.48	-59.37	≤ -24.48	PASS
		High	Hop_2480	-0.94	-57.42	≤ -20.94	PASS



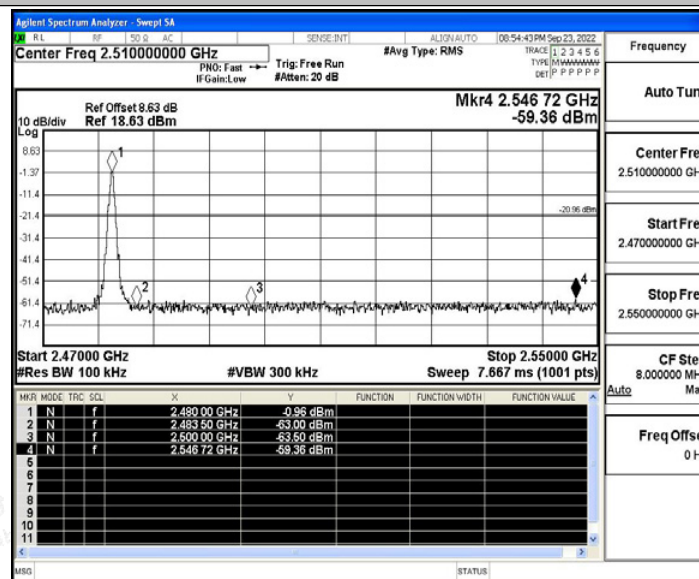


Test Graphs

DH5_Ant1_Low_2402

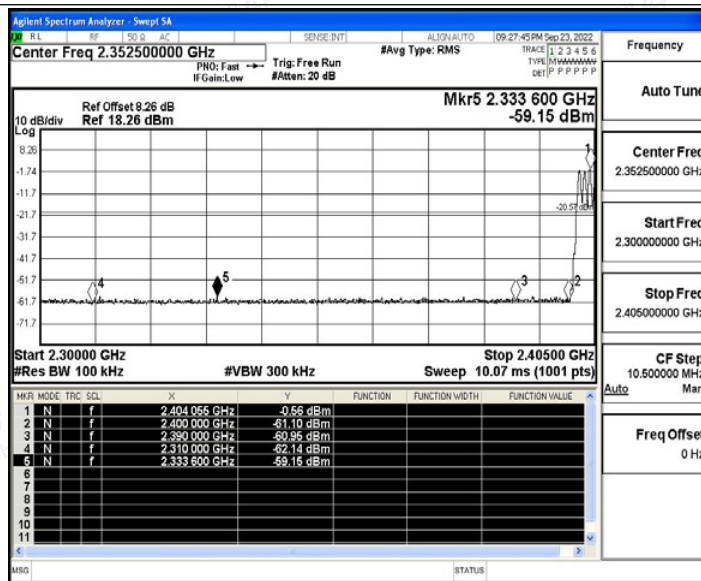


DH5_Ant1_High_2480

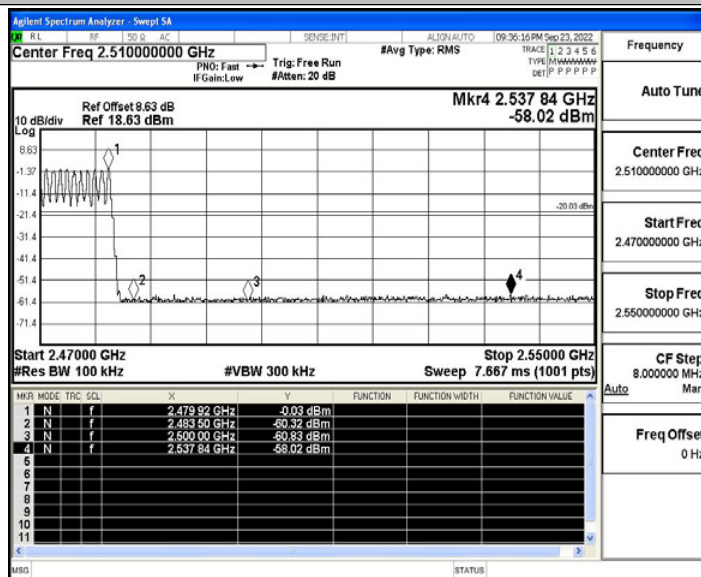


DH5_Ant1_Low_Hop_2402



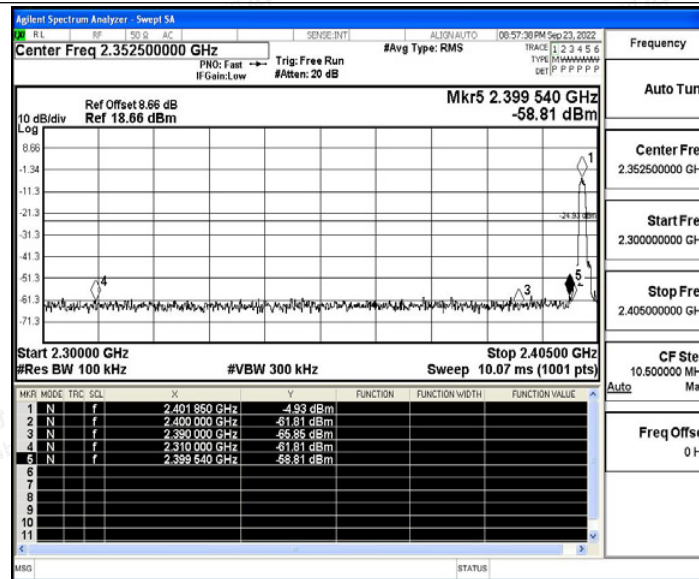


DH5_Ant1_High_Hop_2480

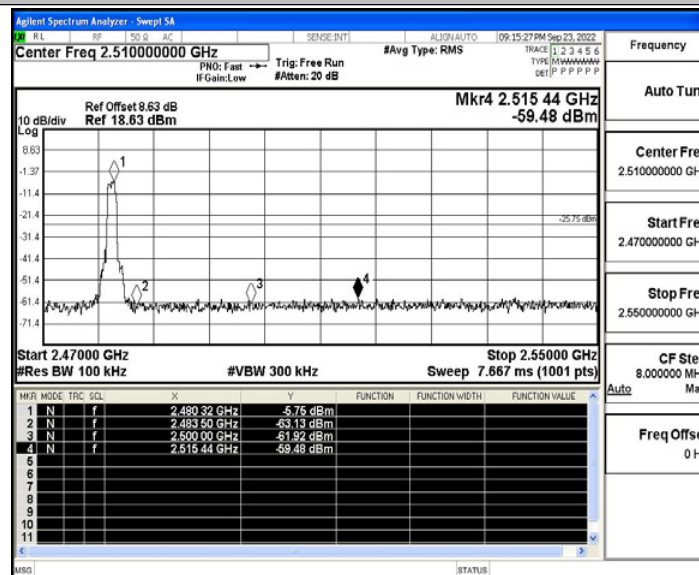


2DH5_Ant1_Low_2402



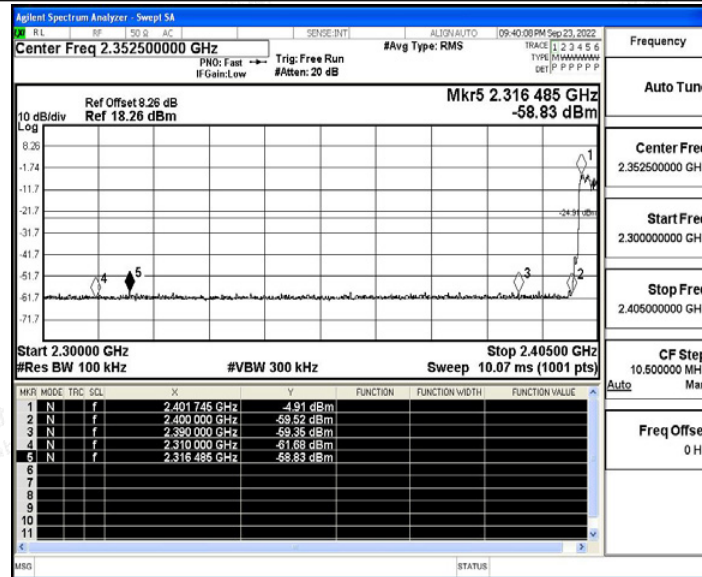


2DH5_Ant1_High_2480

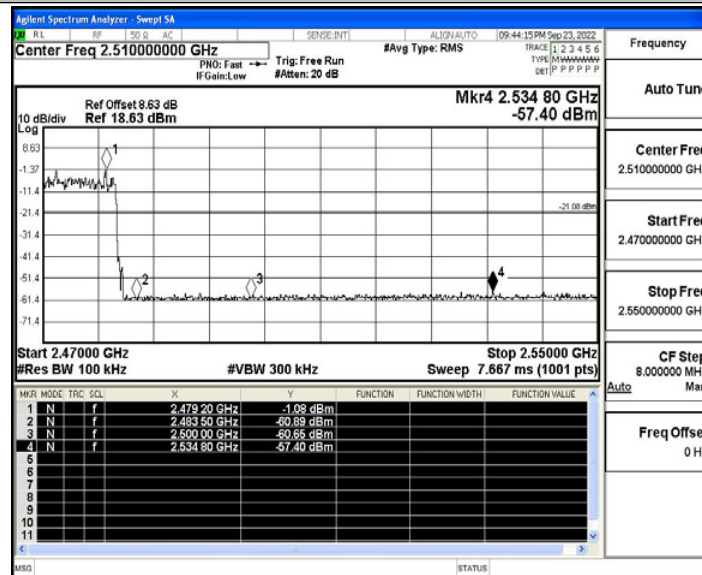


2DH5_Ant1_Low_Hop_2402



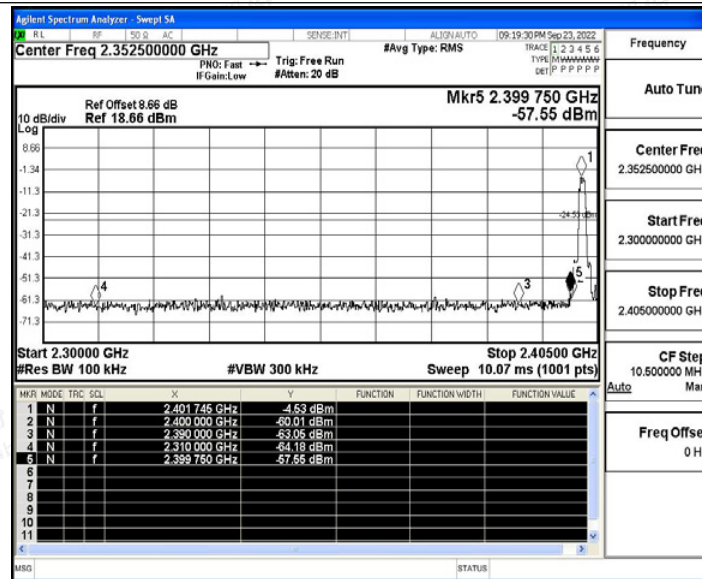


2DH5_Ant1_High_Hop_2480

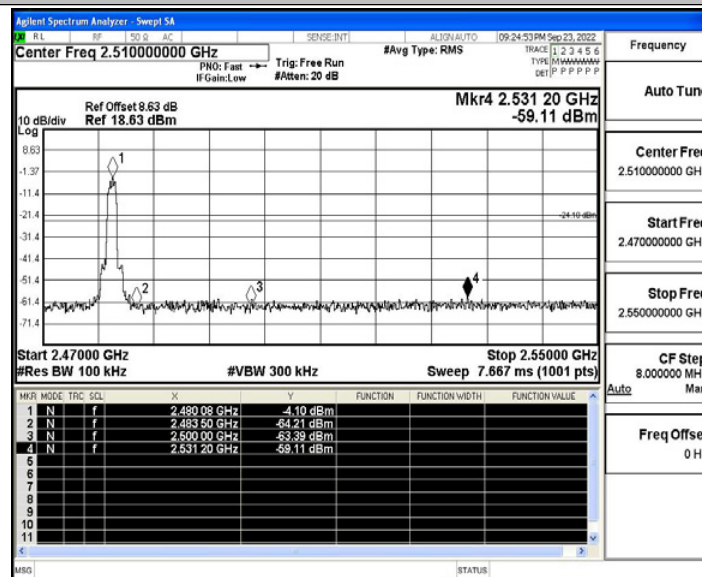


3DH5_Ant1_Low_2402



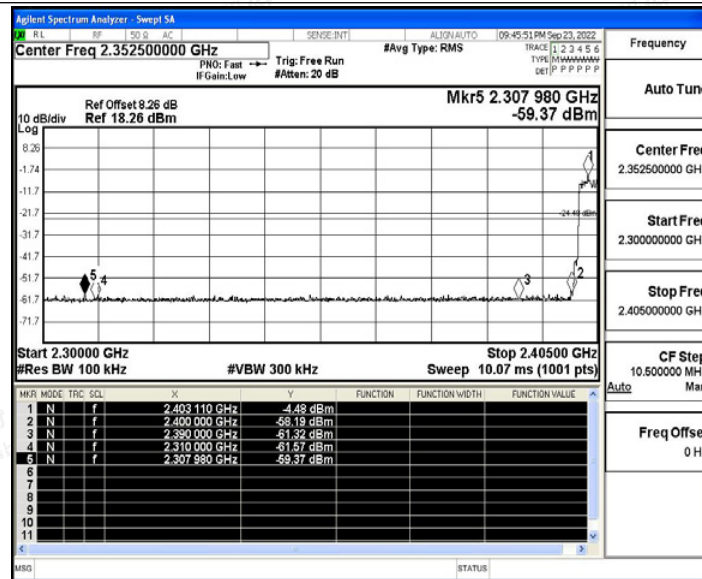


3DH5_Ant1_High_2480

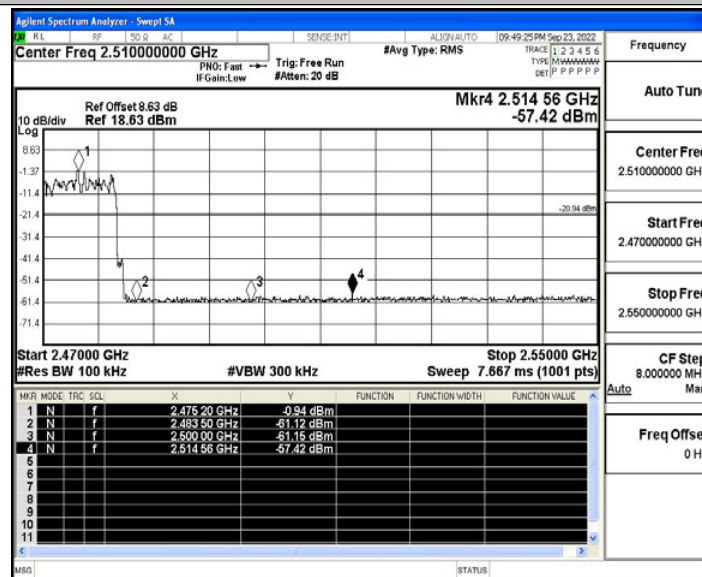


3DH5_Ant1_Low_Hop_2402





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	-0.77	-0.77	---	PASS
			30~1000	-0.77	-60.92	≤-20.77	PASS
			1000~26500	-0.77	-45.95	≤-20.77	PASS
		2441	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-60.84	≤-20.48	PASS
			1000~26500	-0.48	-45.65	≤-20.48	PASS
		2480	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-60.47	≤-20.74	PASS
			1000~26500	-0.74	-45.85	≤-20.74	PASS
2DH5	Ant1	2402	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-61.13	≤-25.48	PASS
			1000~26500	-5.48	-46.17	≤-25.48	PASS
		2441	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-44.36	≤-21.86	PASS
			1000~26500	-1.86	-45.12	≤-21.86	PASS
		2480	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-42.72	≤-21.35	PASS
			1000~26500	-1.35	-45.53	≤-21.35	PASS
3DH5	Ant1	2402	Reference	-5.54	-5.54	---	PASS
			30~1000	-5.54	-60.58	≤-25.54	PASS
			1000~26500	-5.54	-45.66	≤-25.54	PASS
		2441	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-61.15	≤-25.34	PASS
			1000~26500	-5.34	-46.14	≤-25.34	PASS
		2480	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-60.46	≤-21.57	PASS
			1000~26500	-1.57	-46.03	≤-21.57	PASS



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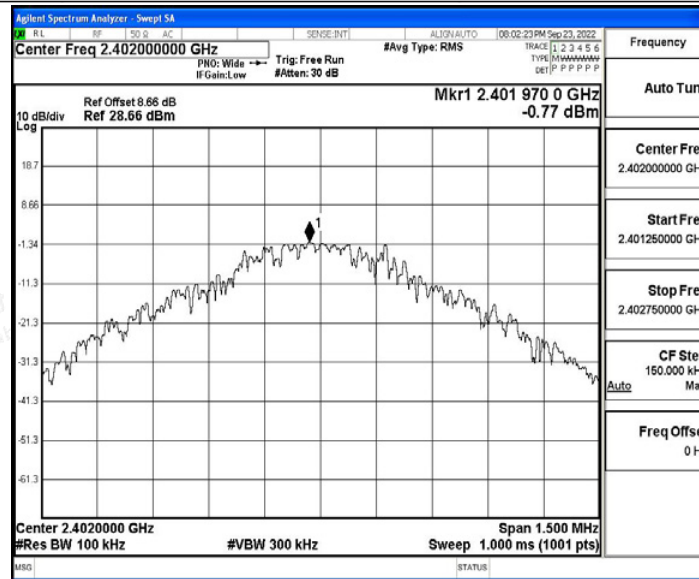
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

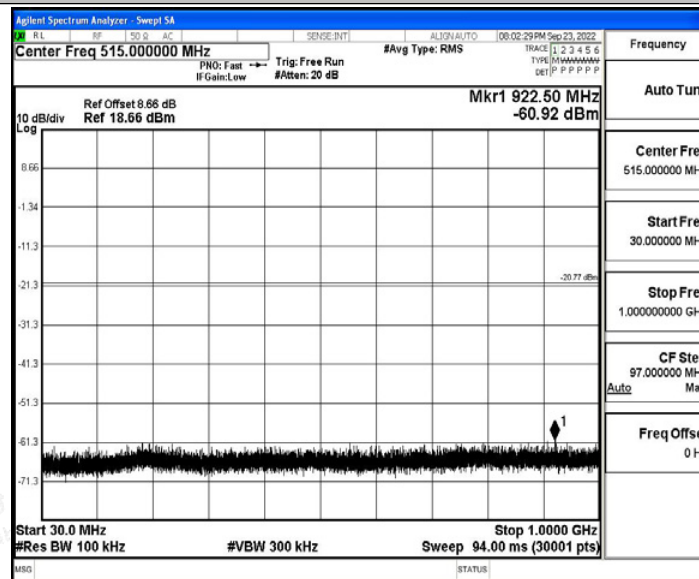


Test Graphs

DH5_Ant1_2402_0~Reference

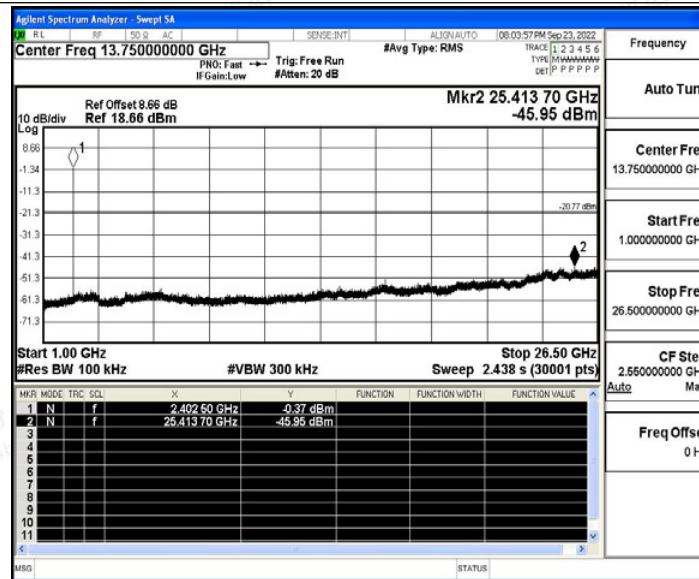


DH5_Ant1_2402_30~1000

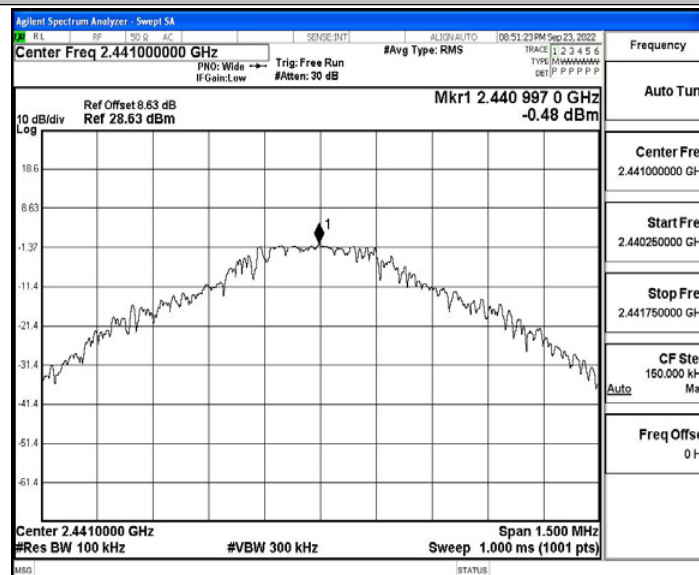


DH5_Ant1_2402_1000~26500





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

