



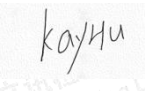
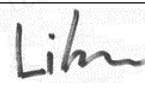
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: OS-870

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
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	0.945	2401.592	2402.537	---	---
		2441	0.951	2440.589	2441.540	---	---
		2480	0.948	2479.589	2480.537	---	---
2DH5	Ant1	2402	1.323	2401.385	2402.708	---	---
		2441	1.320	2440.391	2441.711	---	---
		2480	1.320	2479.388	2480.708	---	---
3DH5	Ant1	2402	1.314	2401.394	2402.708	---	---
		2441	1.320	2440.394	2441.714	---	---
		2480	1.314	2479.397	2480.711	---	---

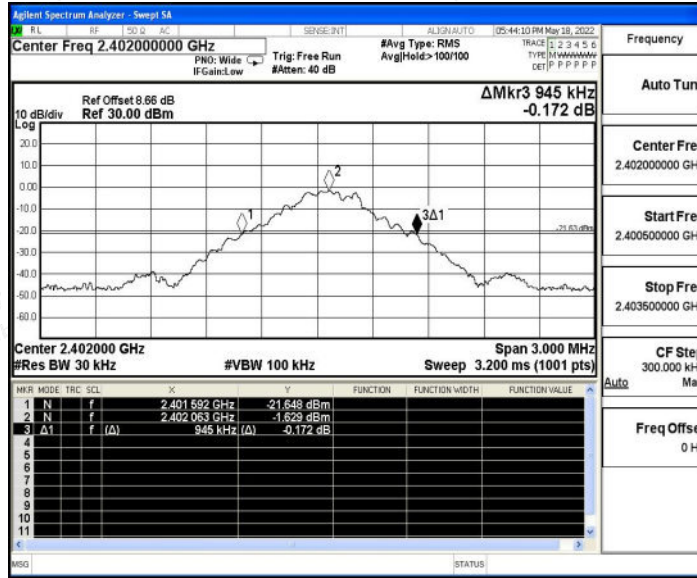


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

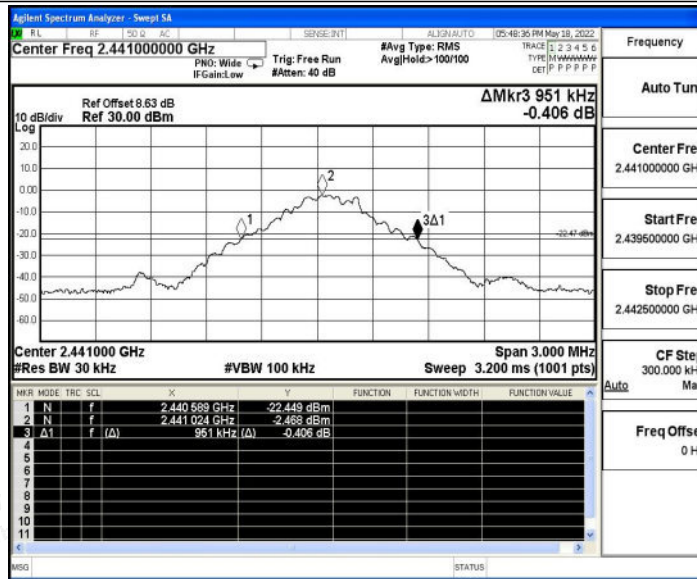


Test Graphs

DH5_Ant1_2402

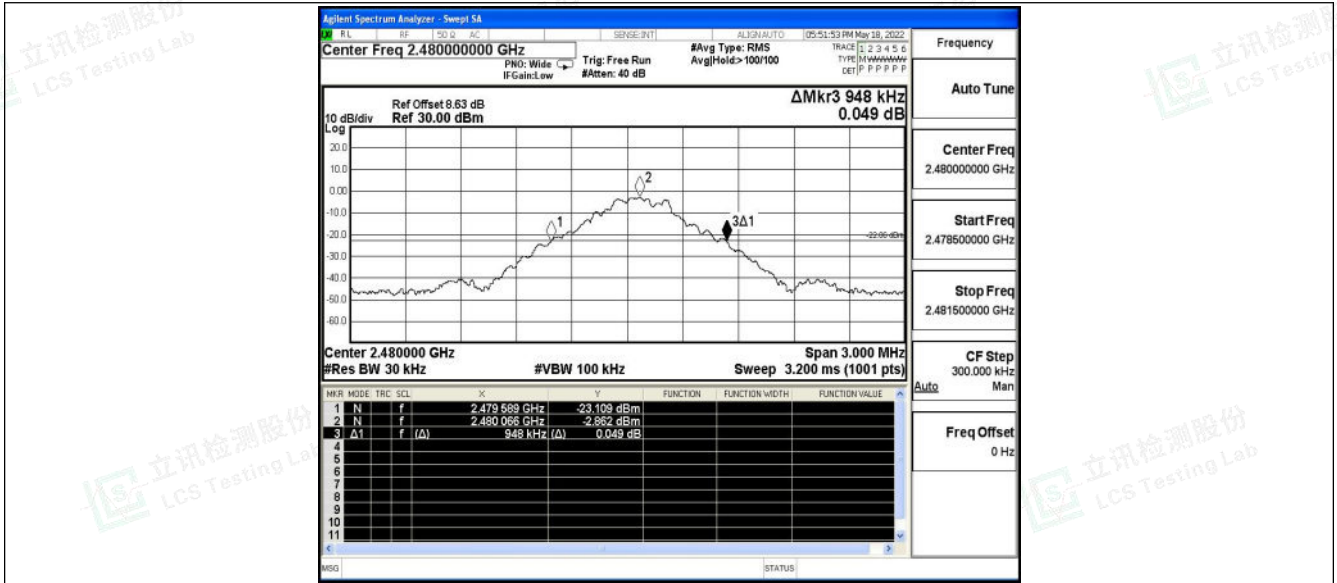


DH5_Ant1_2441

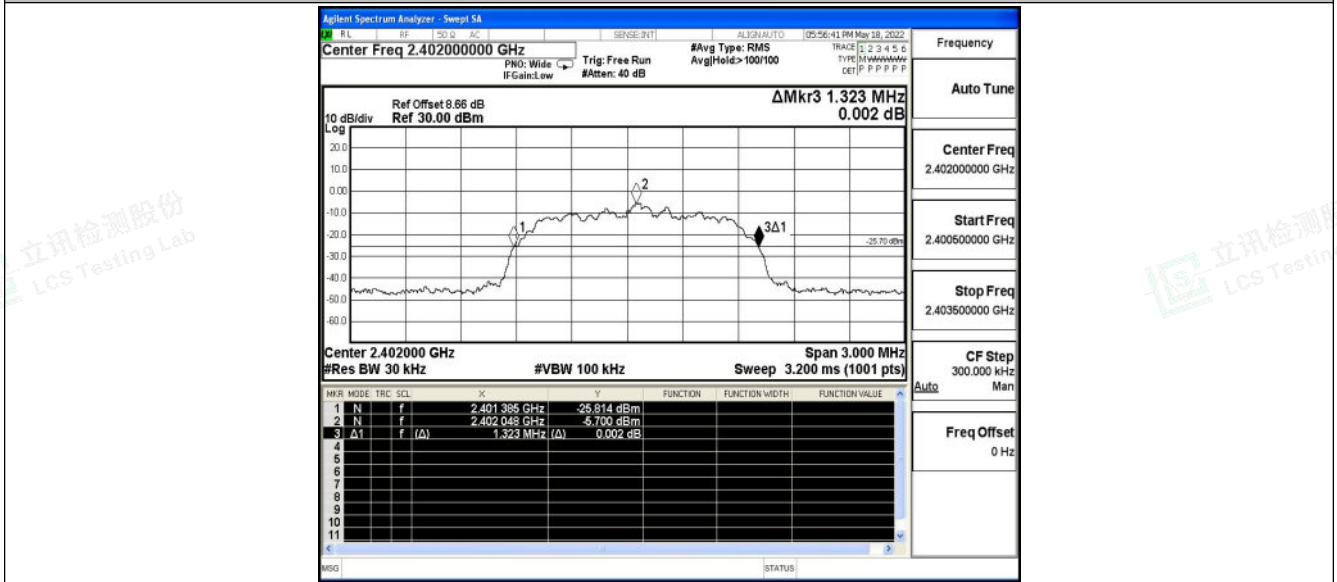


DH5_Ant1_2480



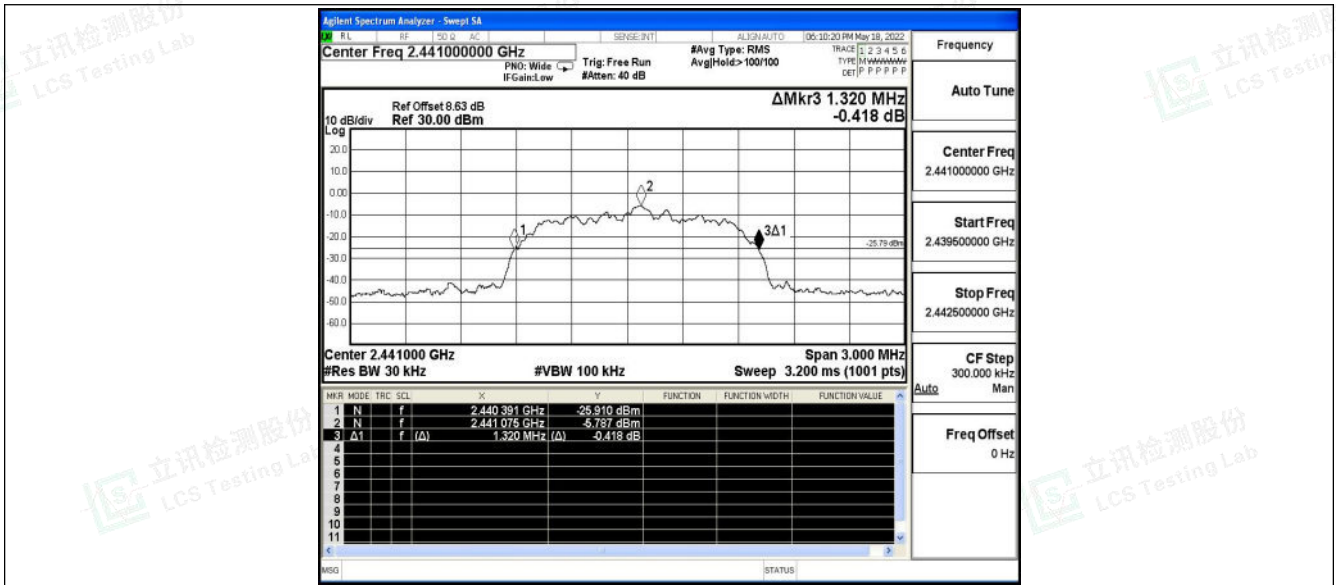


2DHS_Ant1_2402

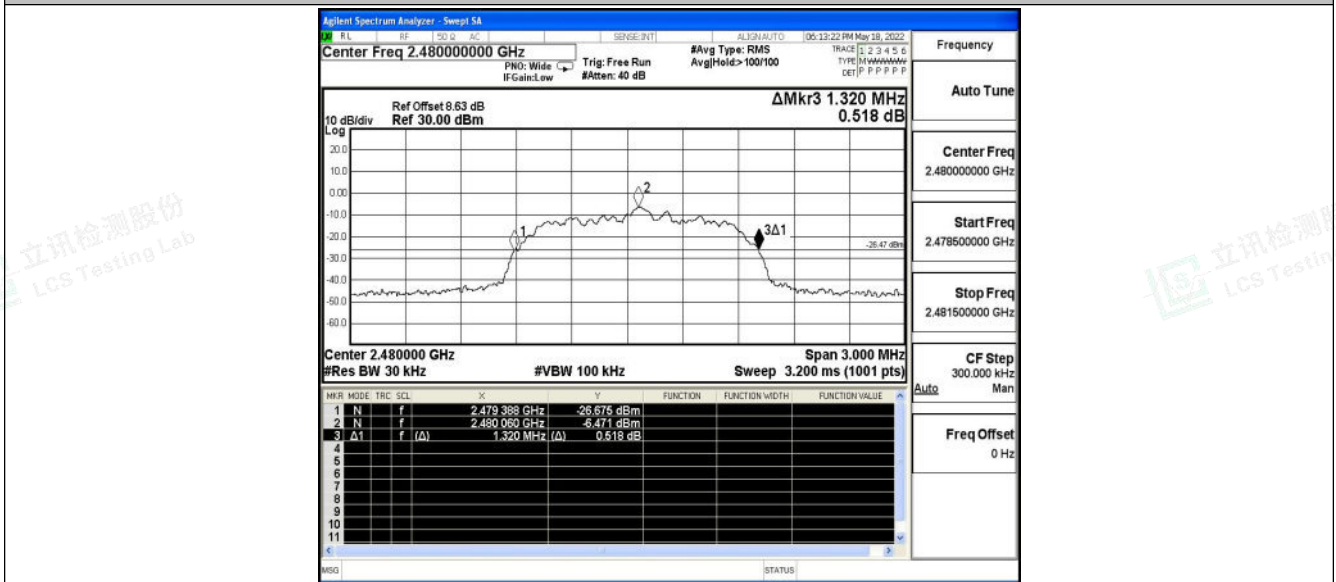


2DHS_Ant1_2441



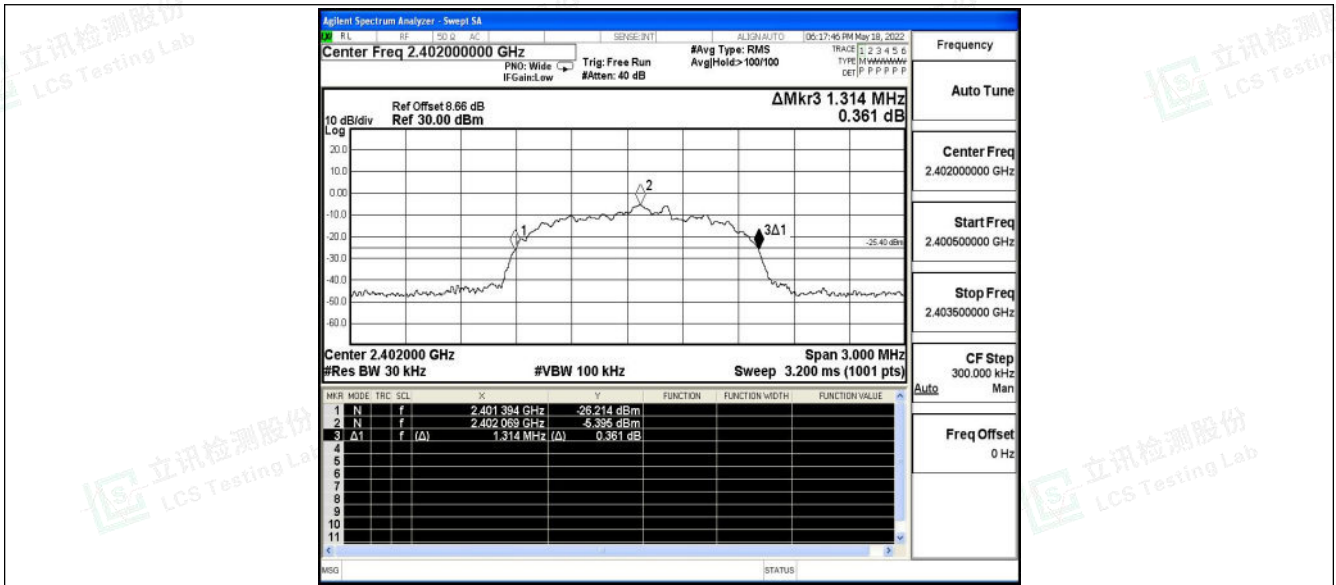


2D H5_Ant1_2480

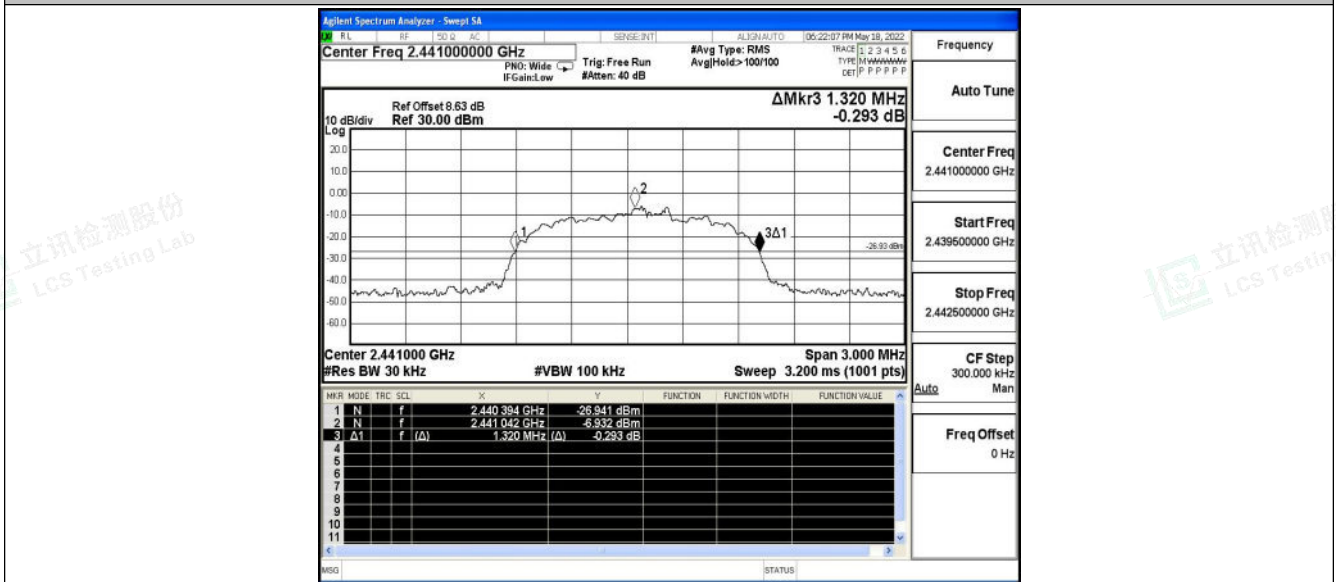


3D H5_Ant1_2402



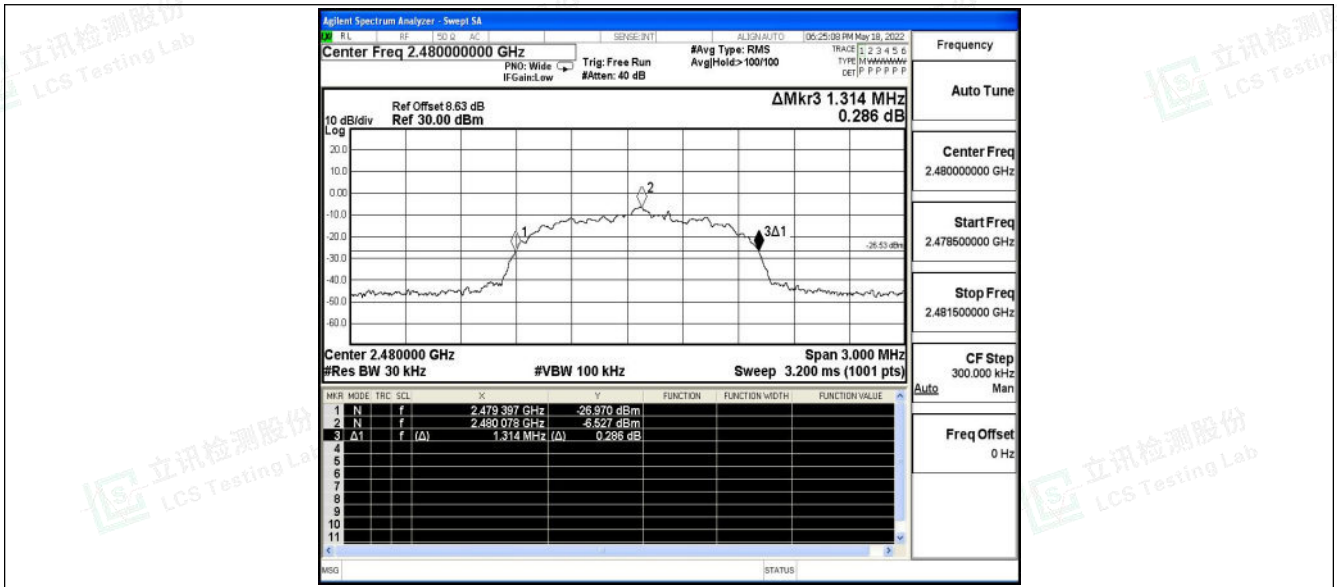


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

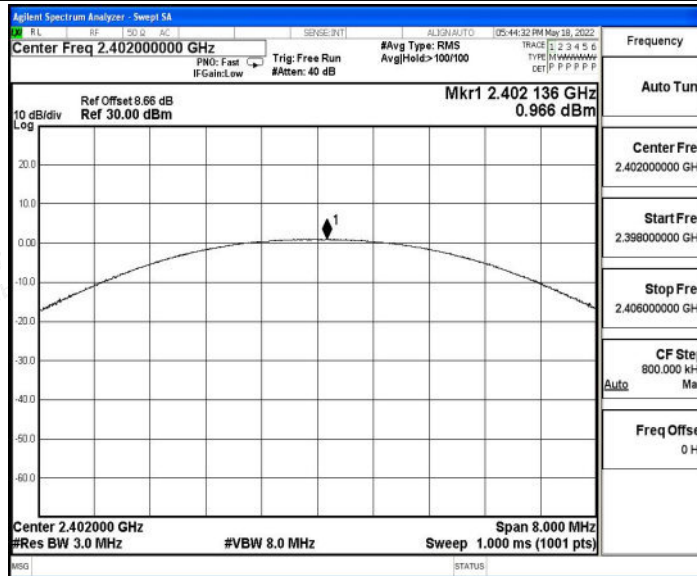
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.97	≤20.97	PASS
		2441	0.34	≤20.97	PASS
		2480	-0.22	≤20.97	PASS
2DH5	Ant1	2402	0.04	≤20.97	PASS
		2441	-0.32	≤20.97	PASS
		2480	-0.96	≤20.97	PASS
3DH5	Ant1	2402	0.33	≤20.97	PASS
		2441	-0.17	≤20.97	PASS
		2480	-0.78	≤20.97	PASS



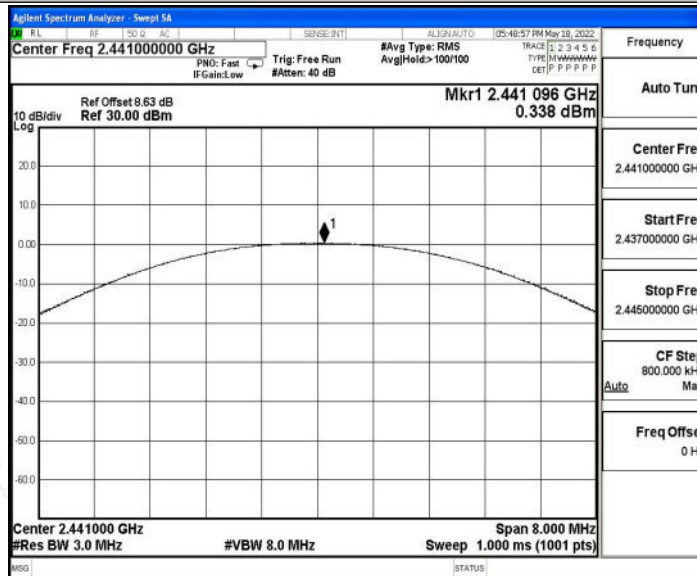


Test Graphs

DH5_Ant1_2402

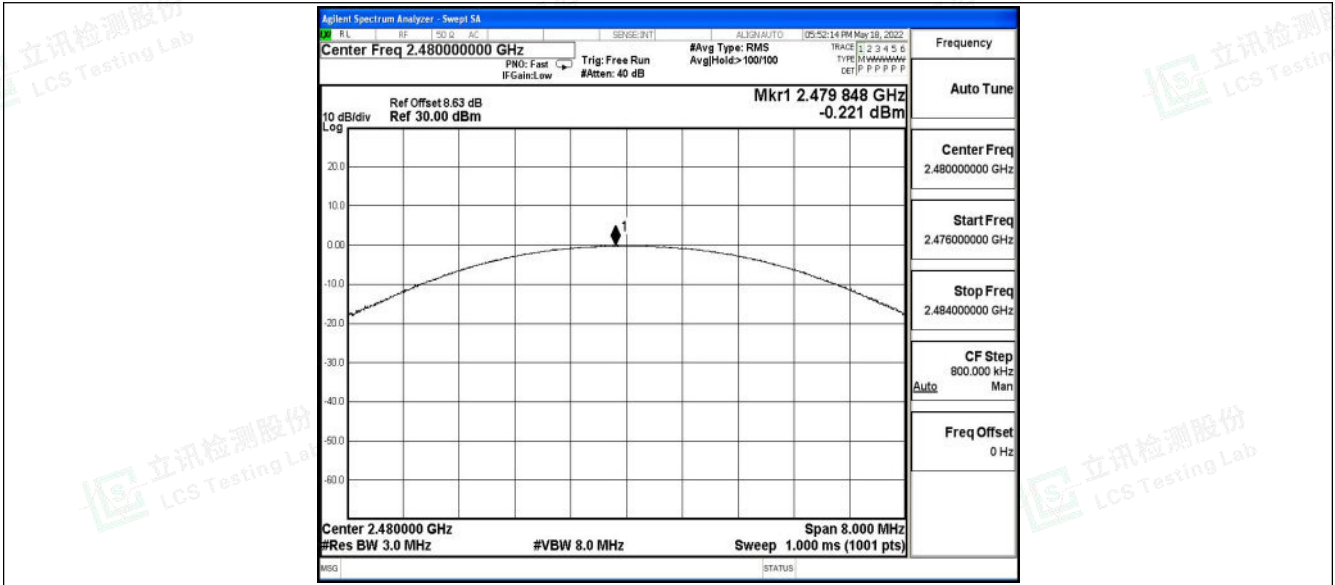


DH5_Ant1_2441

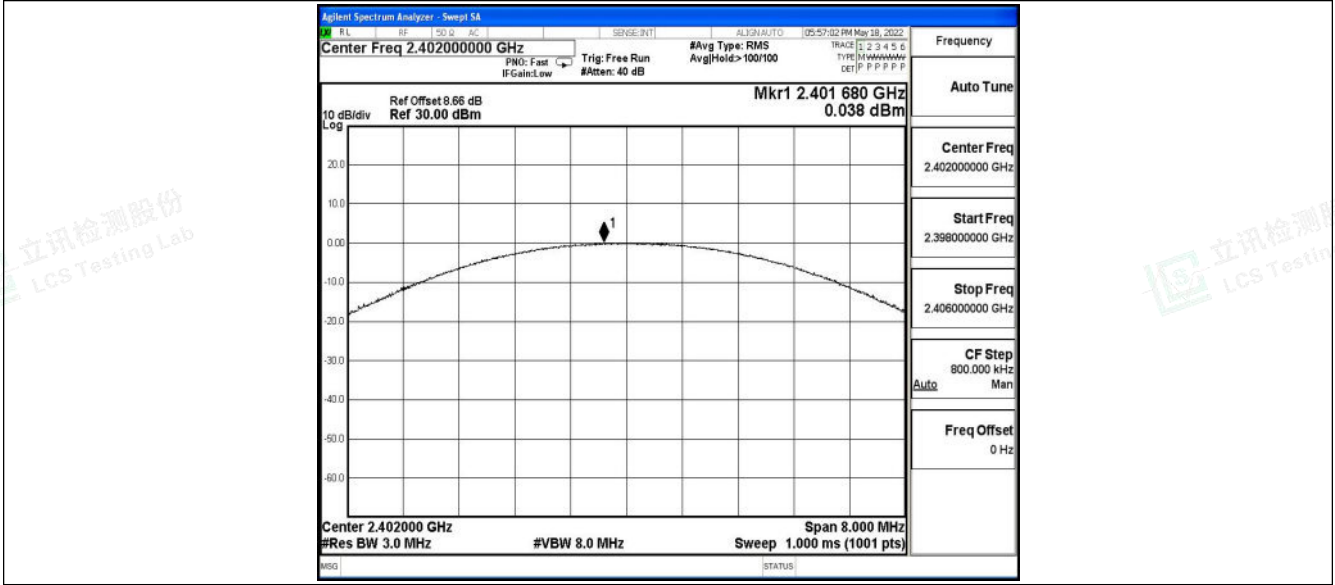


DH5_Ant1_2480



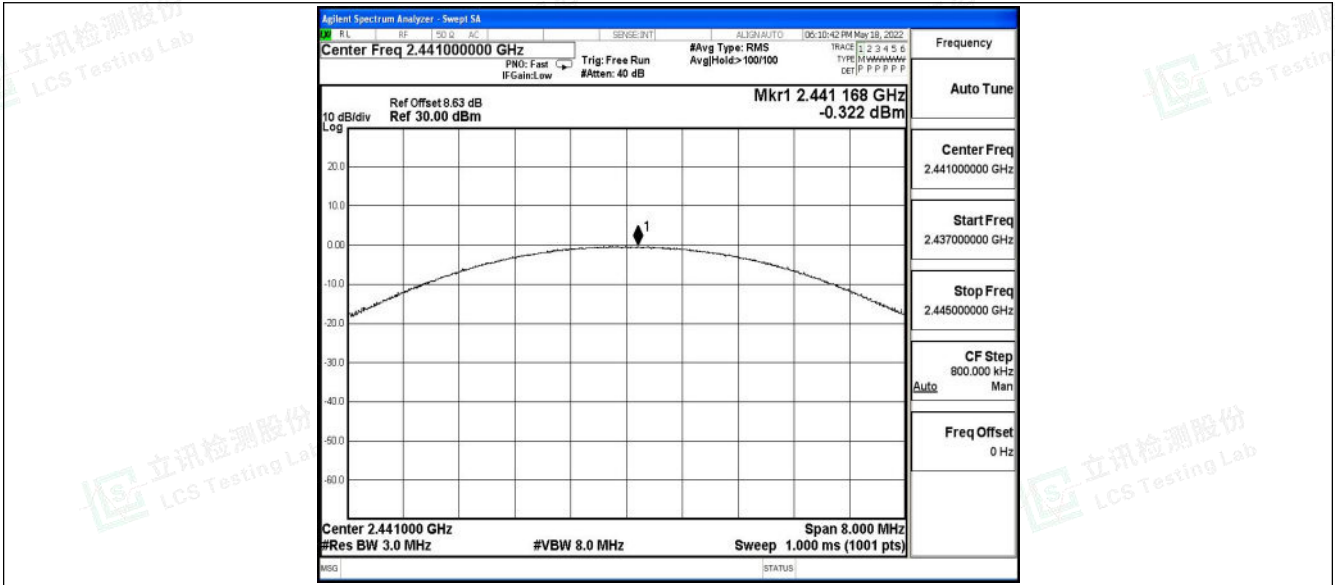


2DH5_Ant1_2402

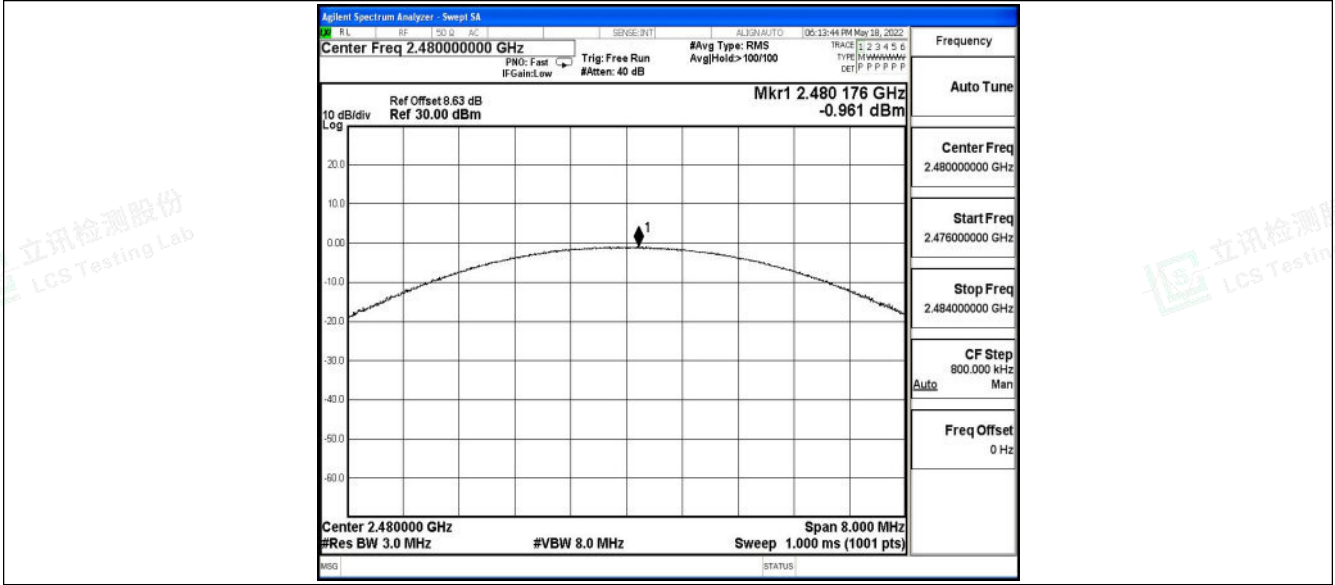


2DH5_Ant1_2441



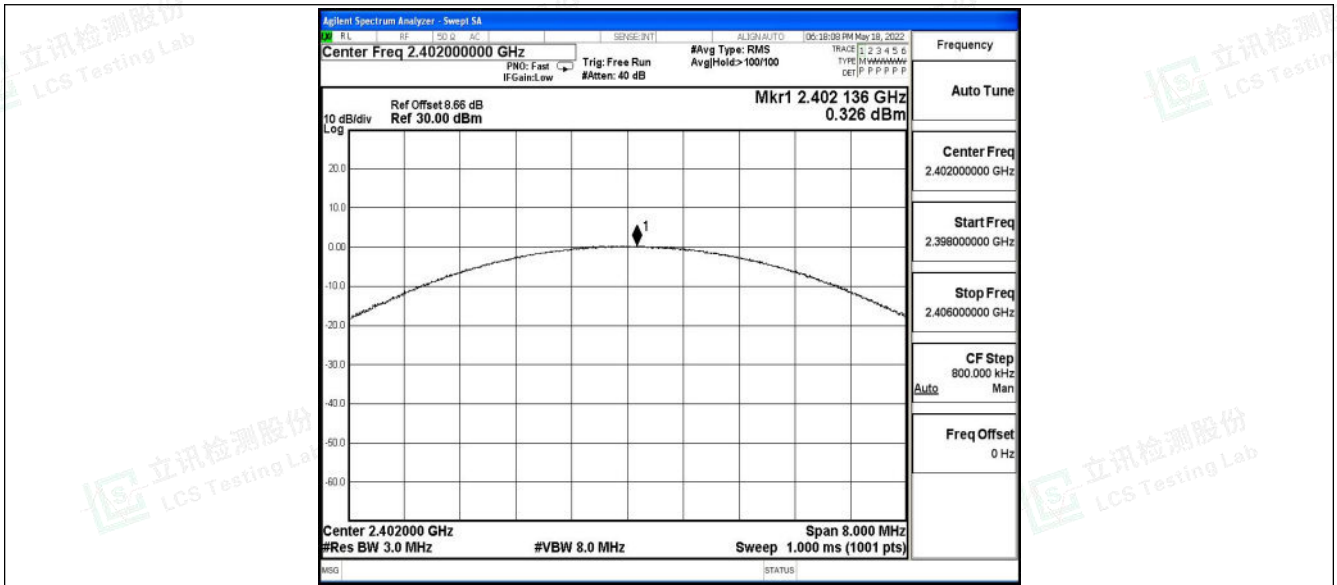


2DH5_Ant1_2480

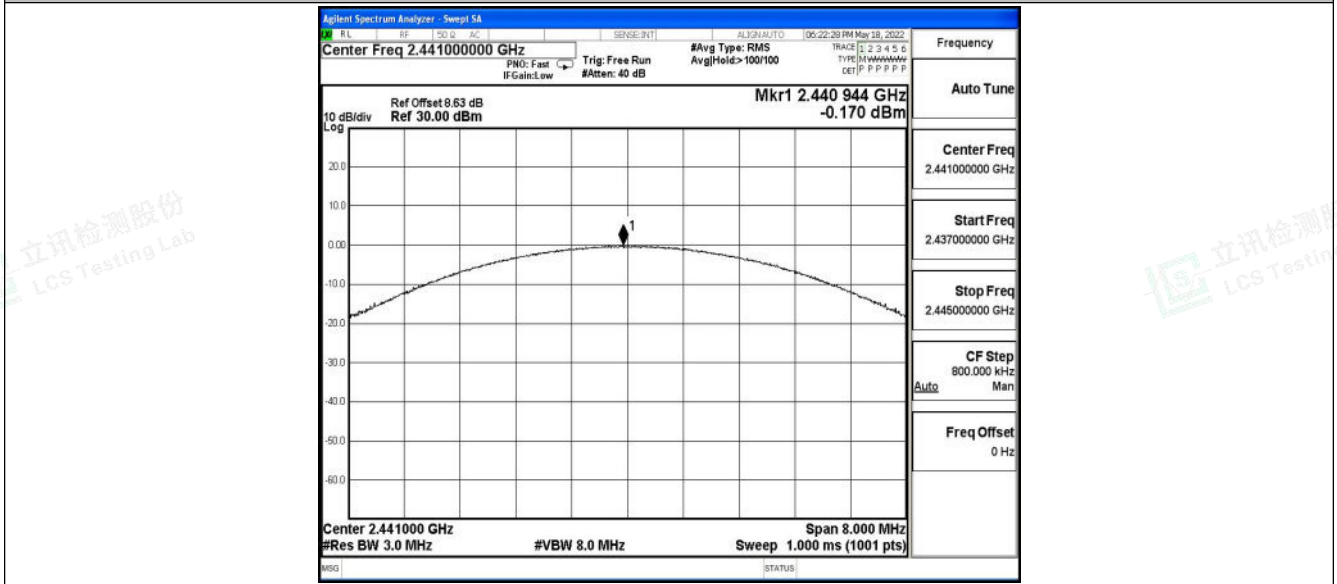


3DH5_Ant1_2402



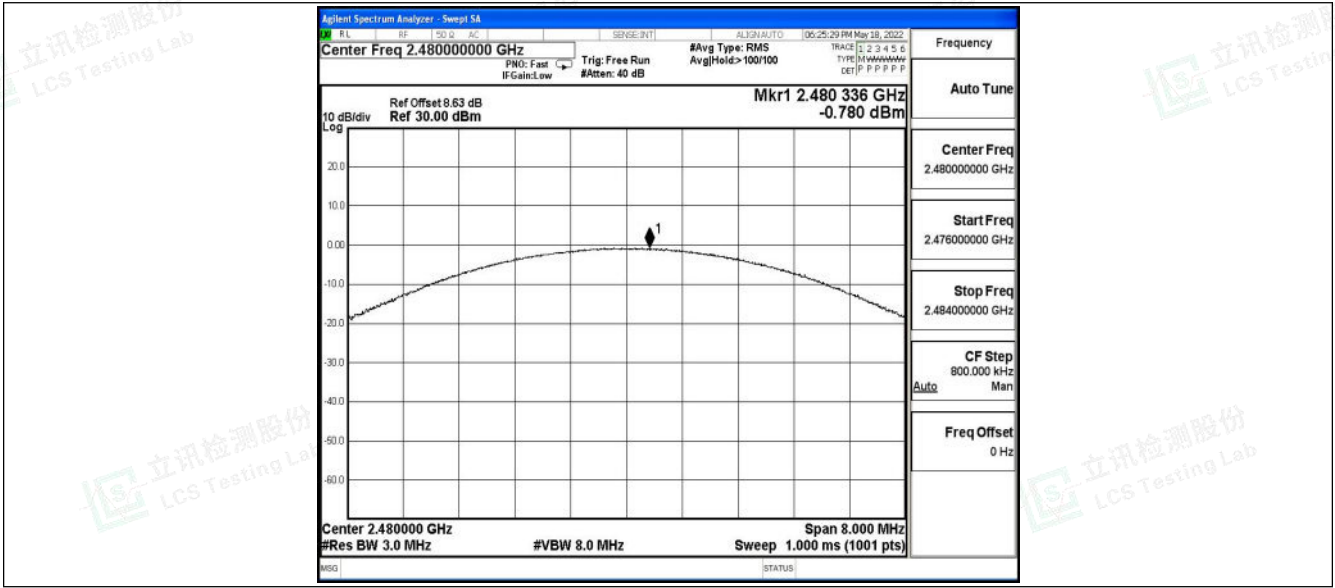


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

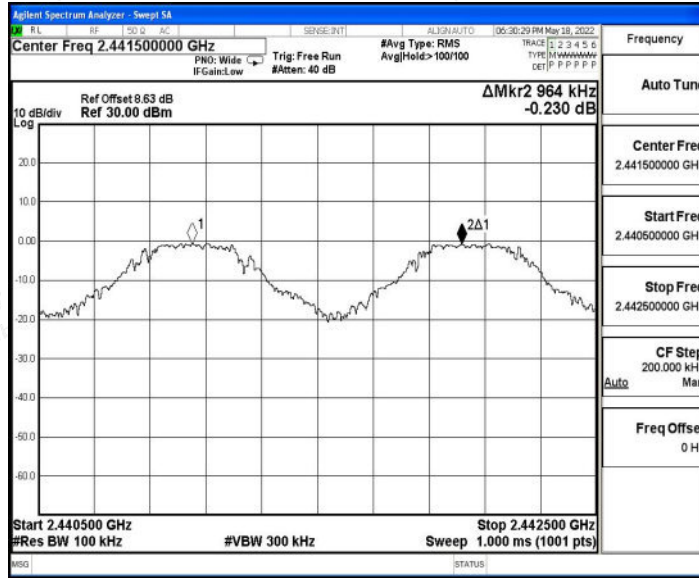
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.964	≥0.951	PASS
2DH5	Ant1	Hop	1.09	≥0.882	PASS
3DH5	Ant1	Hop	1.172	≥0.880	PASS



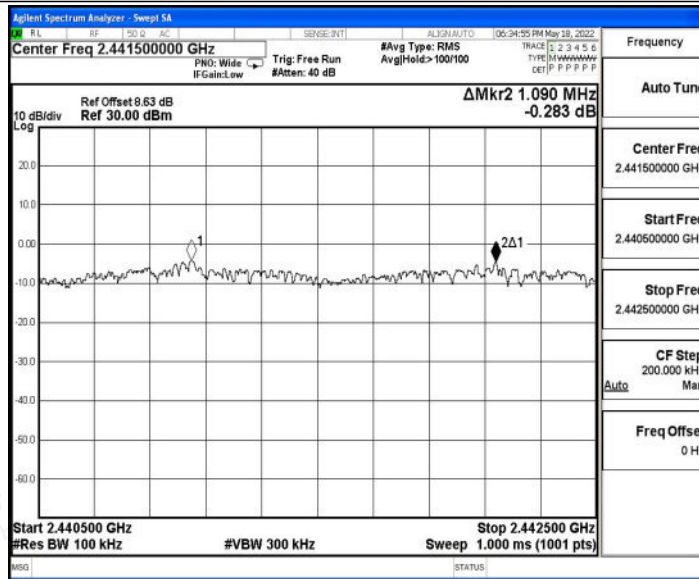


Test Graphs

DH5_Ant1_Hop

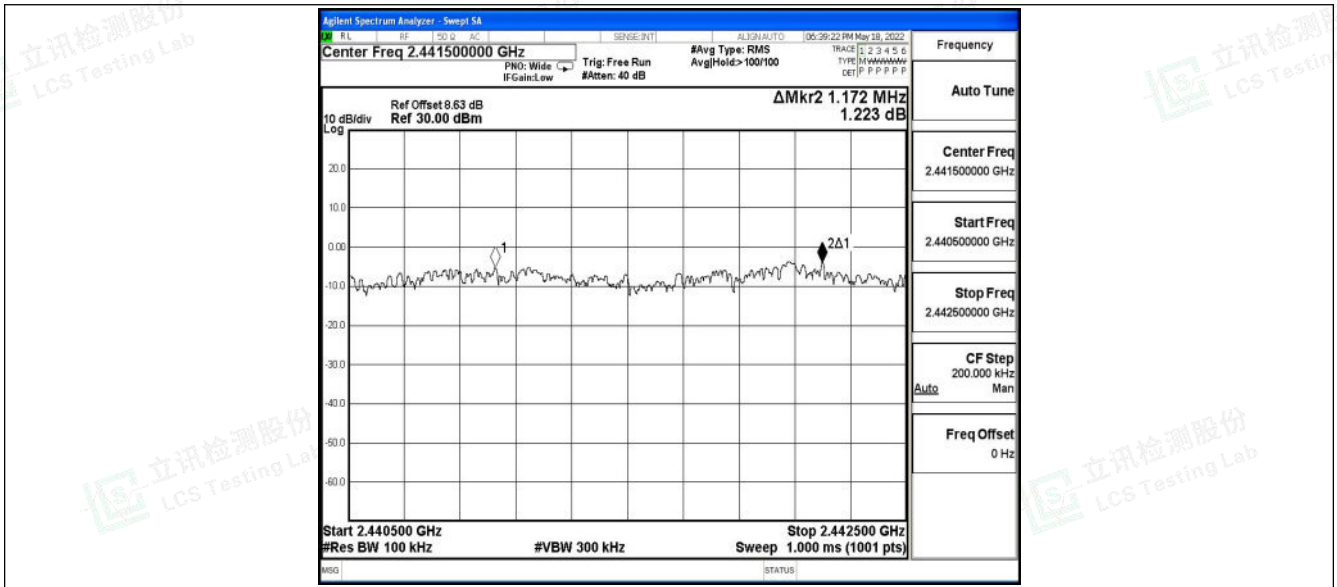


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

Test Result

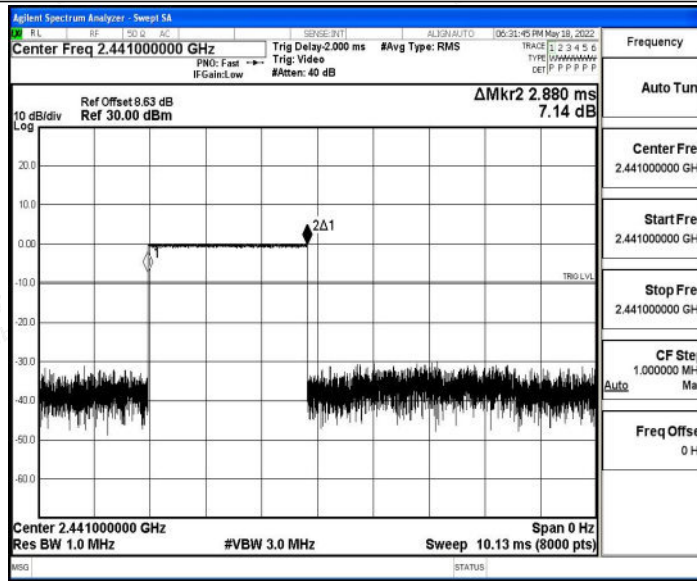
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



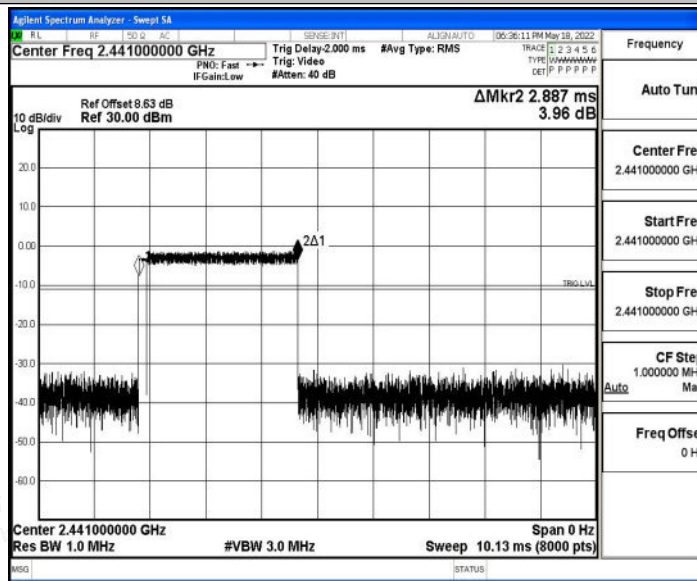


Test Graphs

DH5_Ant1_Hop

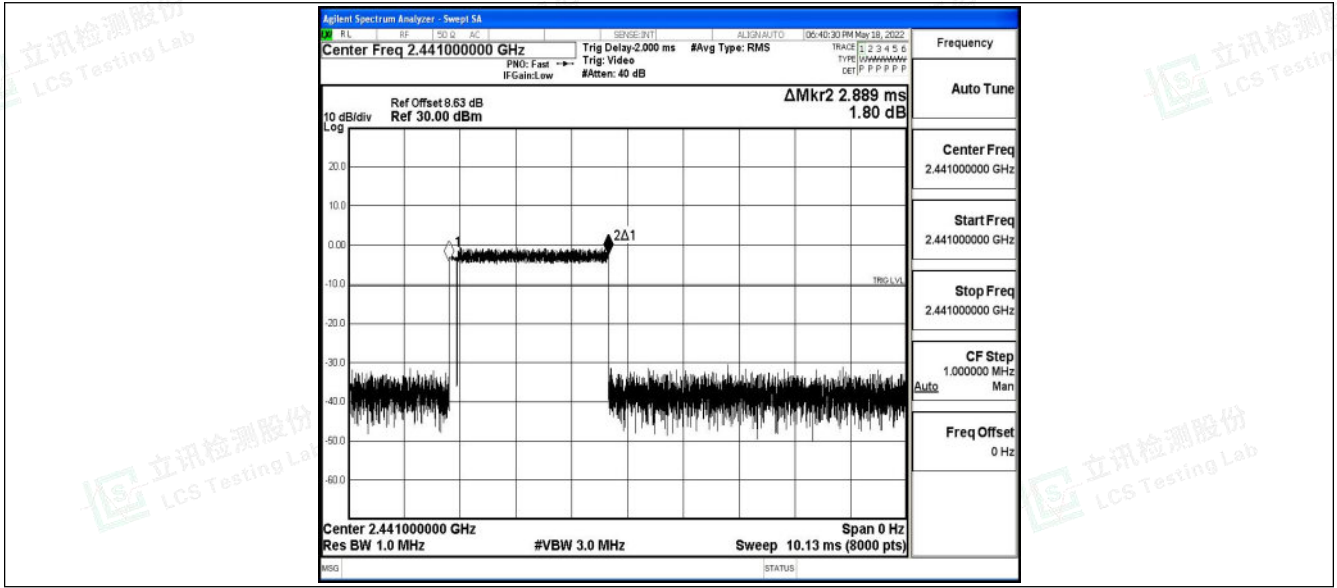


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

Test Result

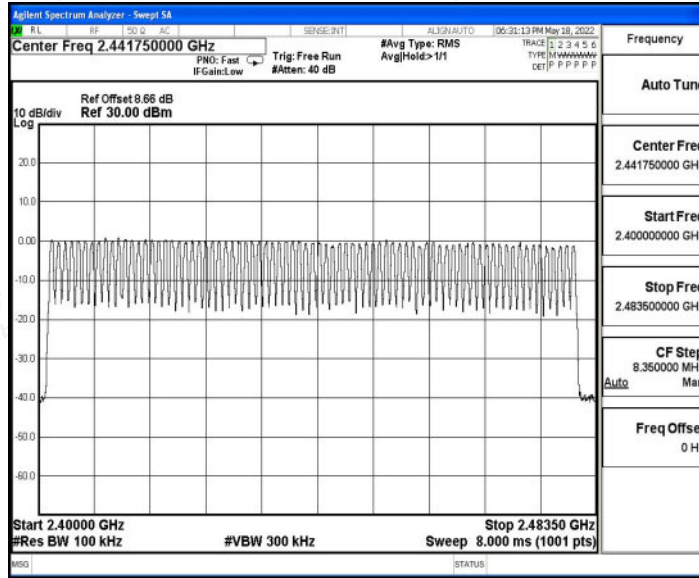
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



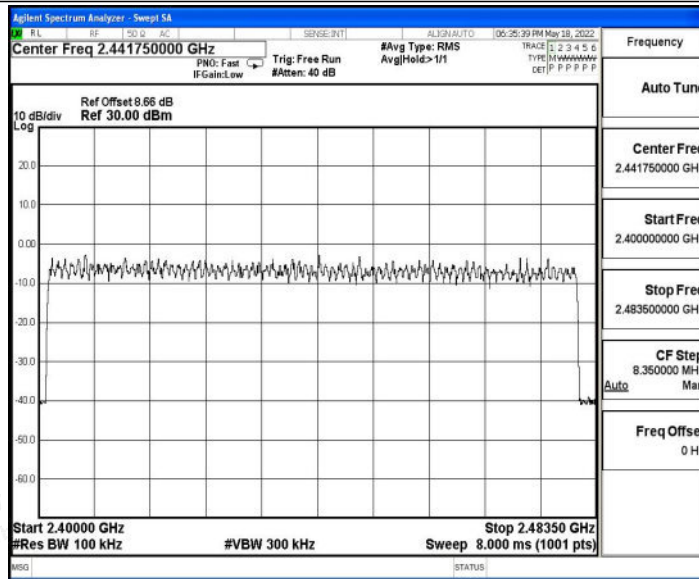


Test Graphs

DH5_Ant1_Hop

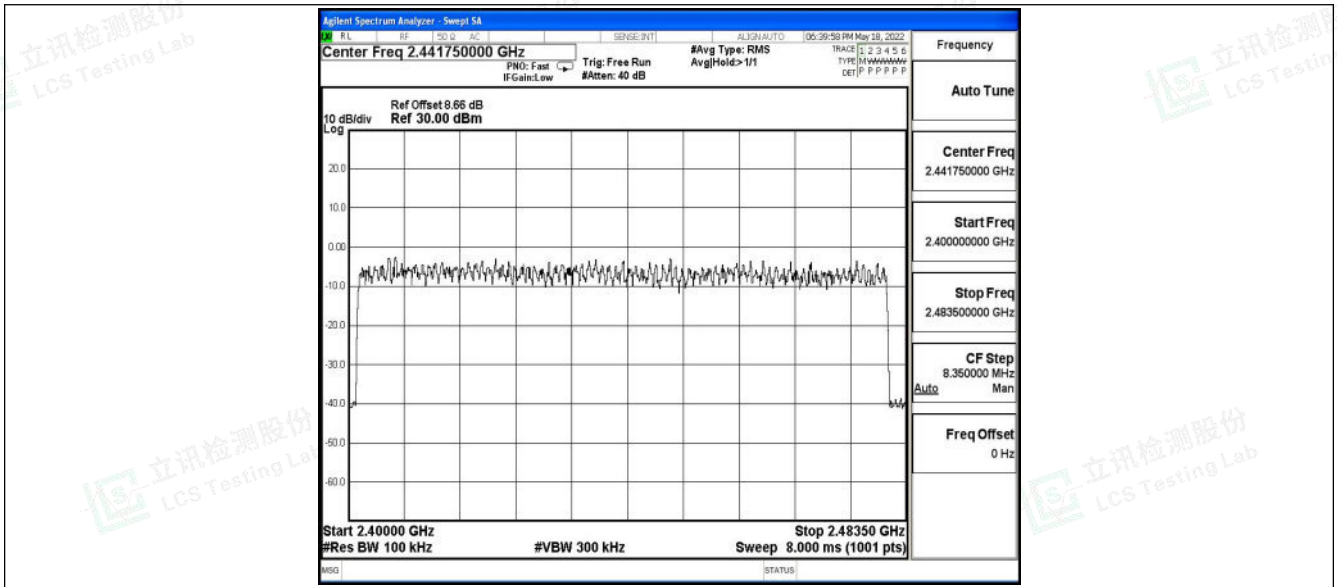


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

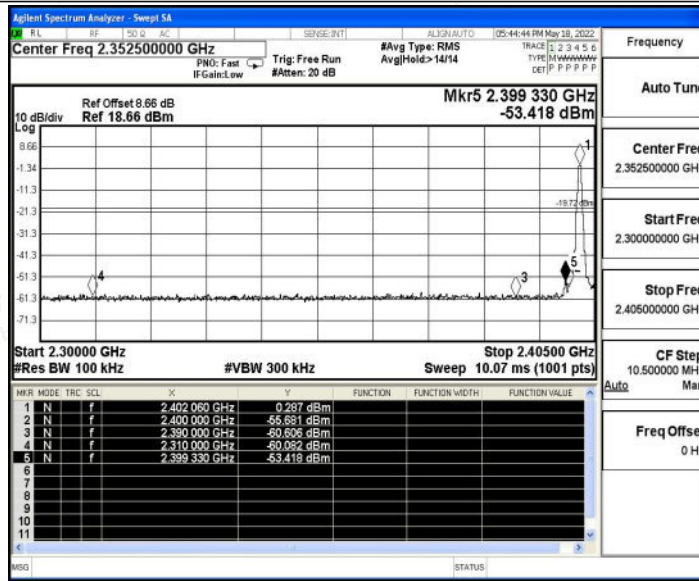
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.28	-53.42	≤-19.72	PASS
		High	2480	-0.92	-57.49	≤-20.92	PASS
		Low	Hop_2402	-0.42	-58.78	≤-20.42	PASS
		High	Hop_2480	-0.79	-57.7	≤-20.79	PASS
2DH5	Ant1	Low	2402	-4.60	-56.55	≤-24.6	PASS
		High	2480	-3.90	-57.41	≤-23.9	PASS
		Low	Hop_2402	-5.92	-58.07	≤-25.92	PASS
		High	Hop_2480	-5.34	-57.25	≤-25.34	PASS
3DH5	Ant1	Low	2402	-3.06	-57.14	≤-23.06	PASS
		High	2480	-4.12	-58.07	≤-24.12	PASS
		Low	Hop_2402	-4.81	-58.98	≤-24.81	PASS
		High	Hop_2480	-4.16	-57.33	≤-24.16	PASS



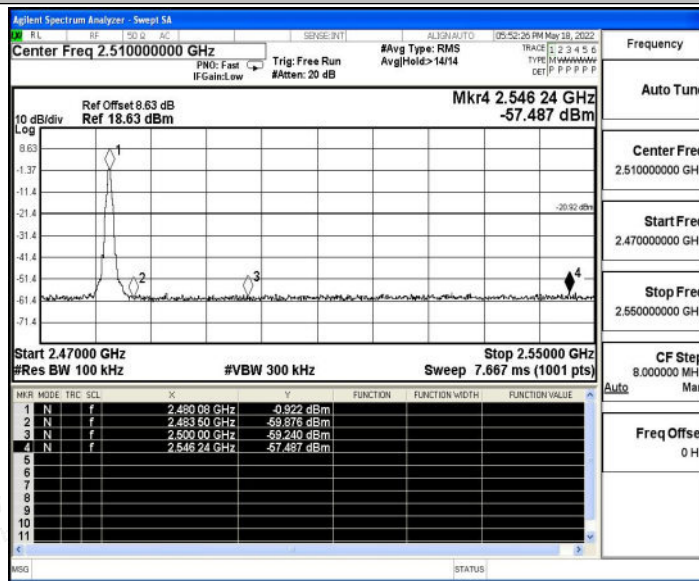


Test Graphs

DH5_Ant1_Low_2402

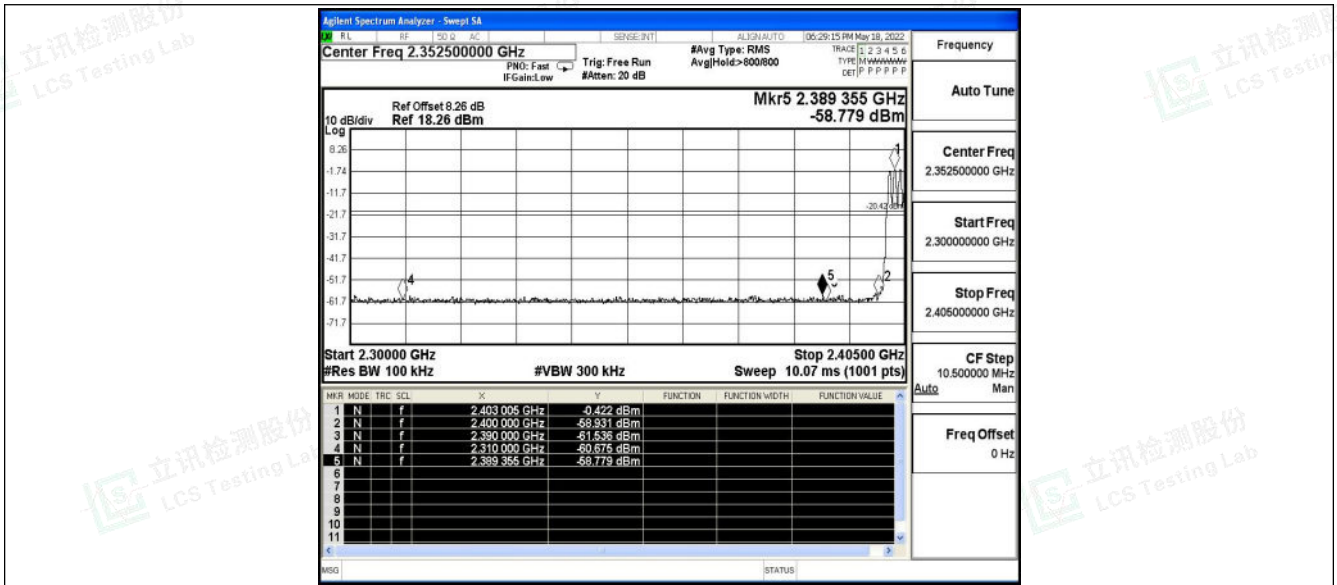


DH5_Ant1_High_2480

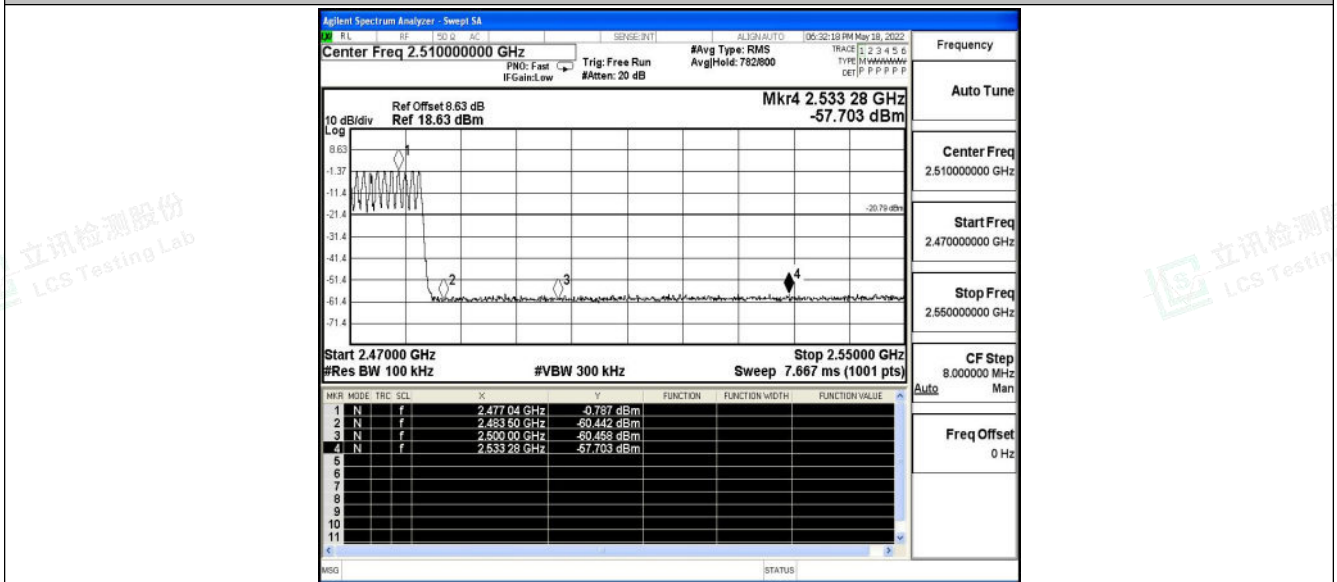


DH5_Ant1_Low_Hop_2402



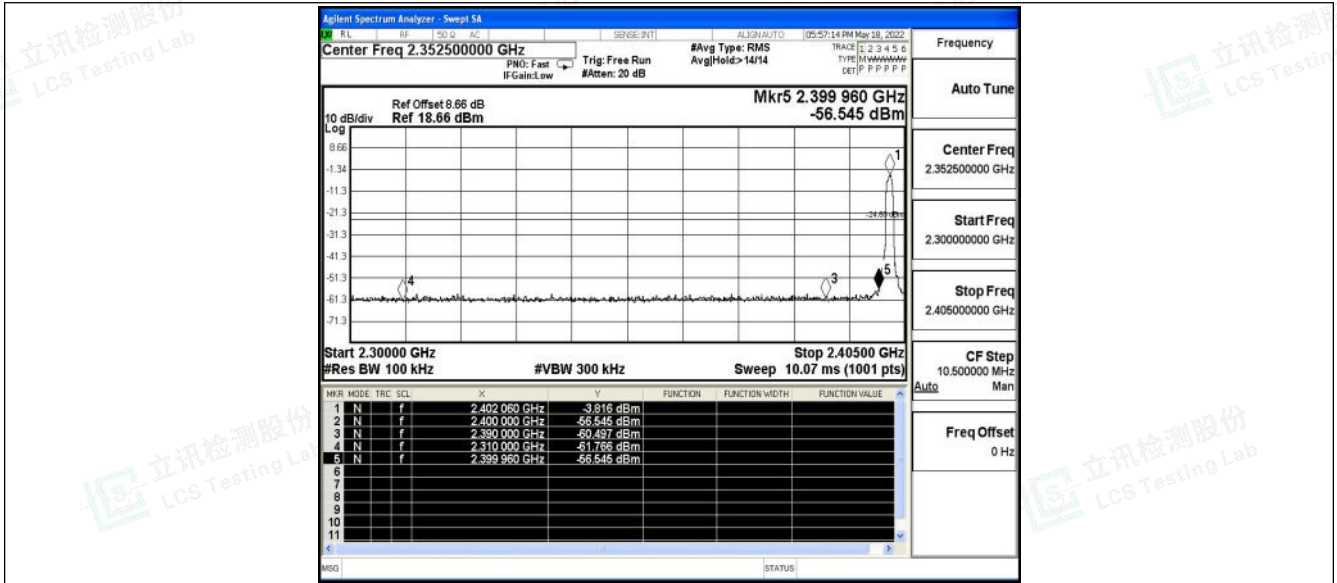


DH5_Ant1_High_Hop_2480

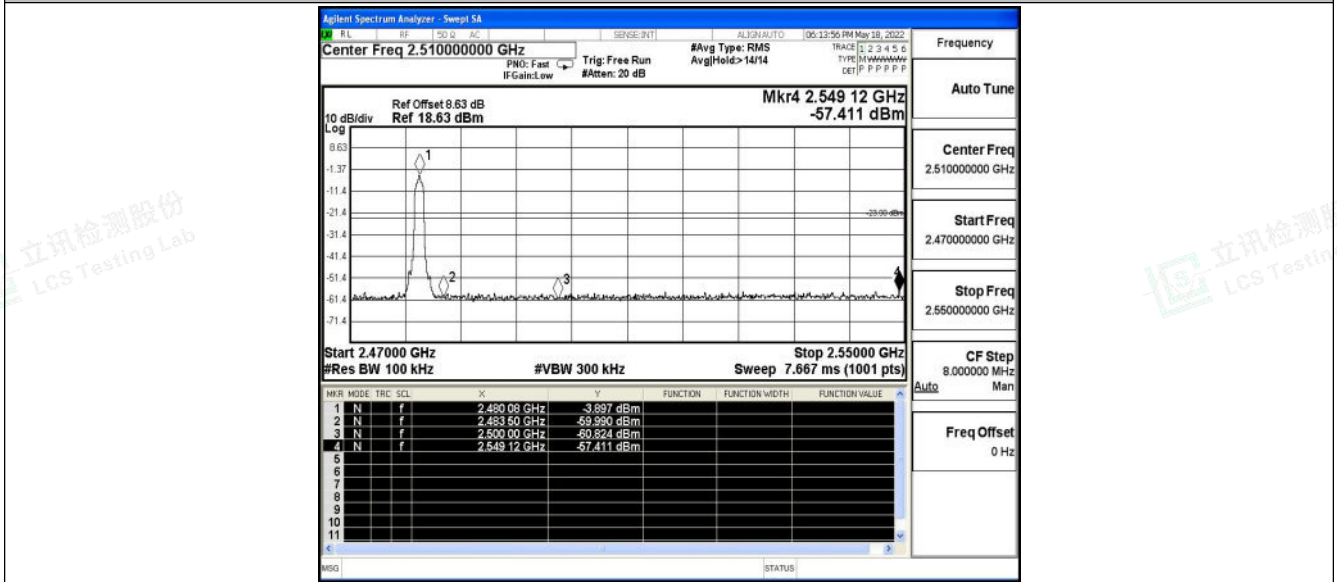


2DH5_Ant1_Low_2402



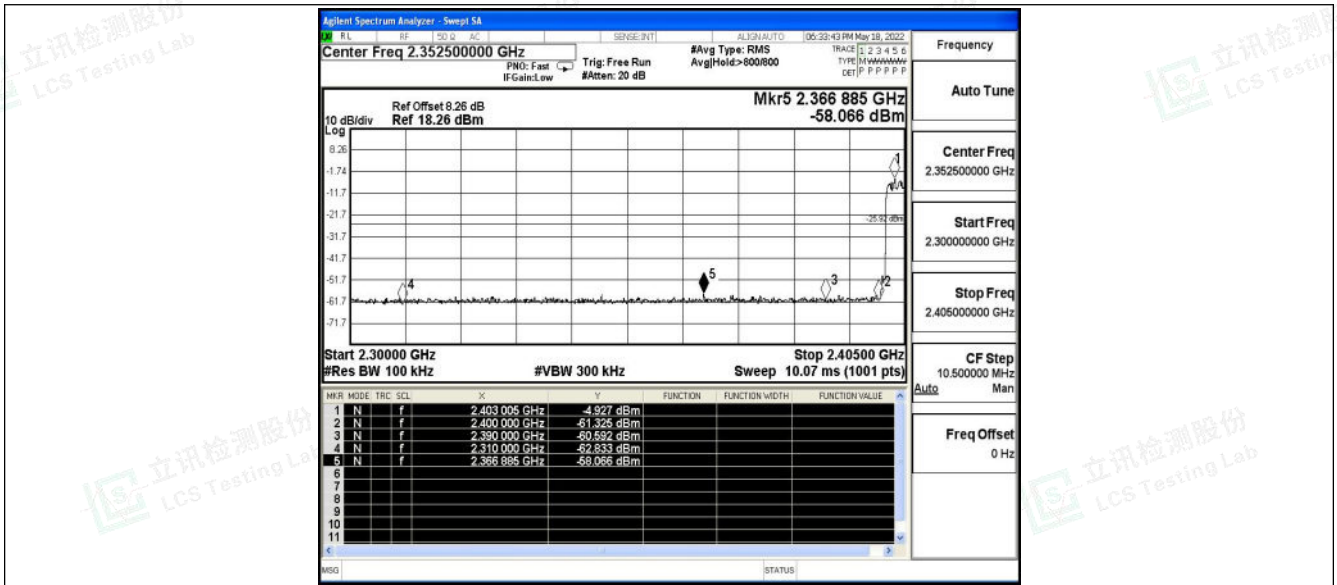


2DH5_Ant1_High_2480

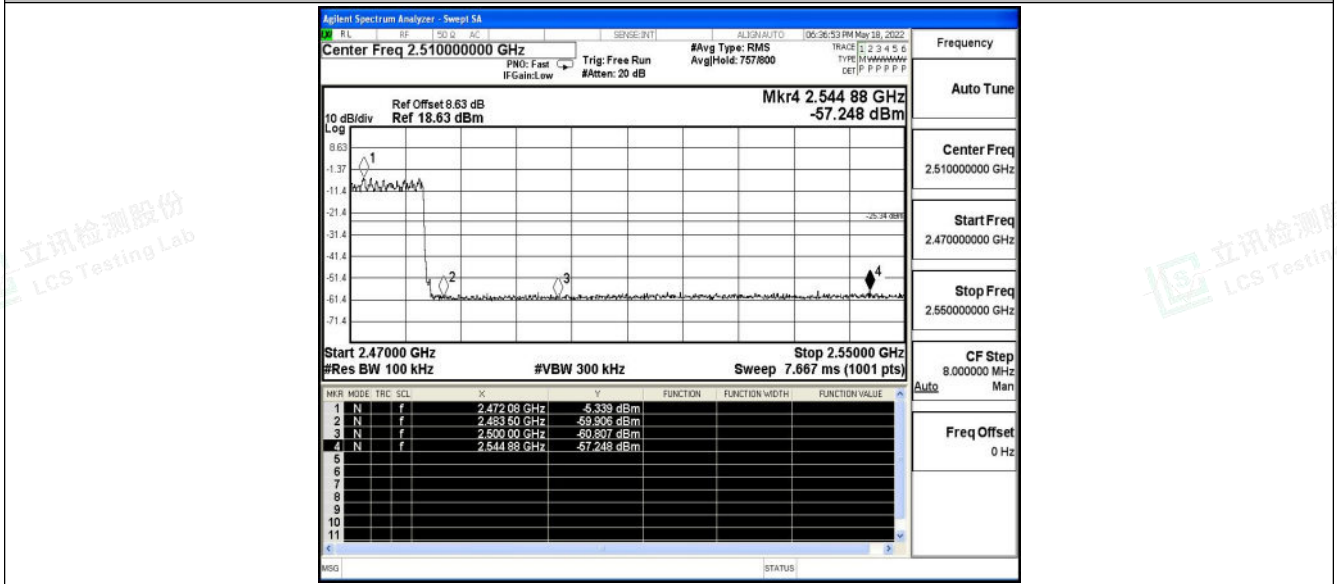


2DH5_Ant1_Low_Hop_2402



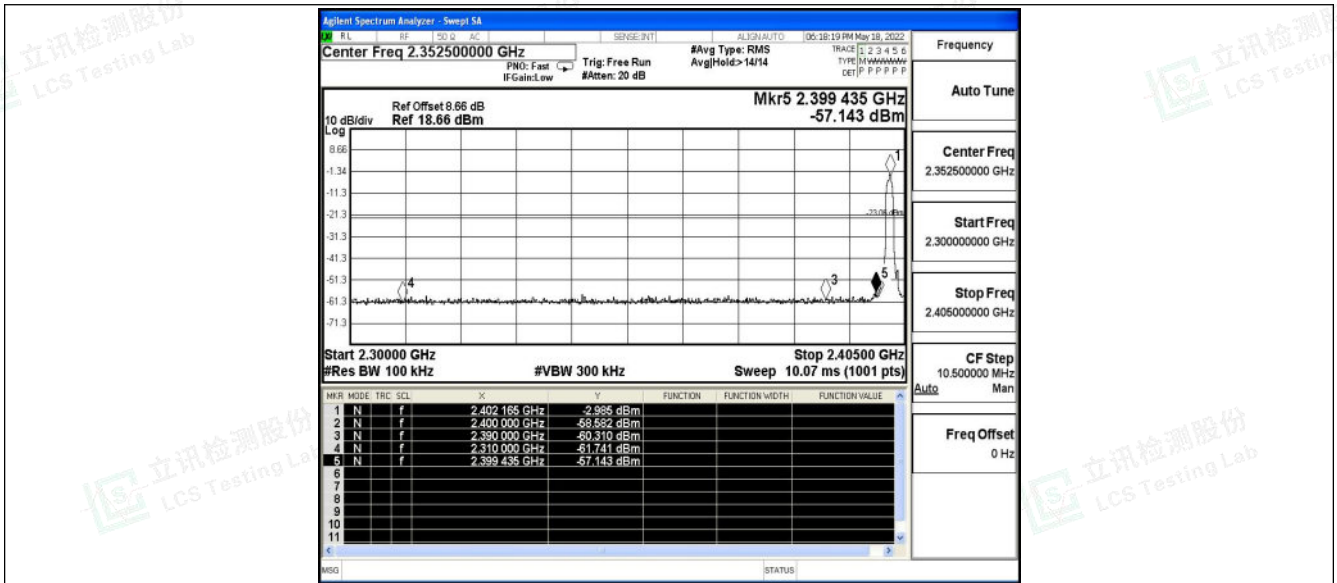


2DH5_Ant1_High_Hop_2480

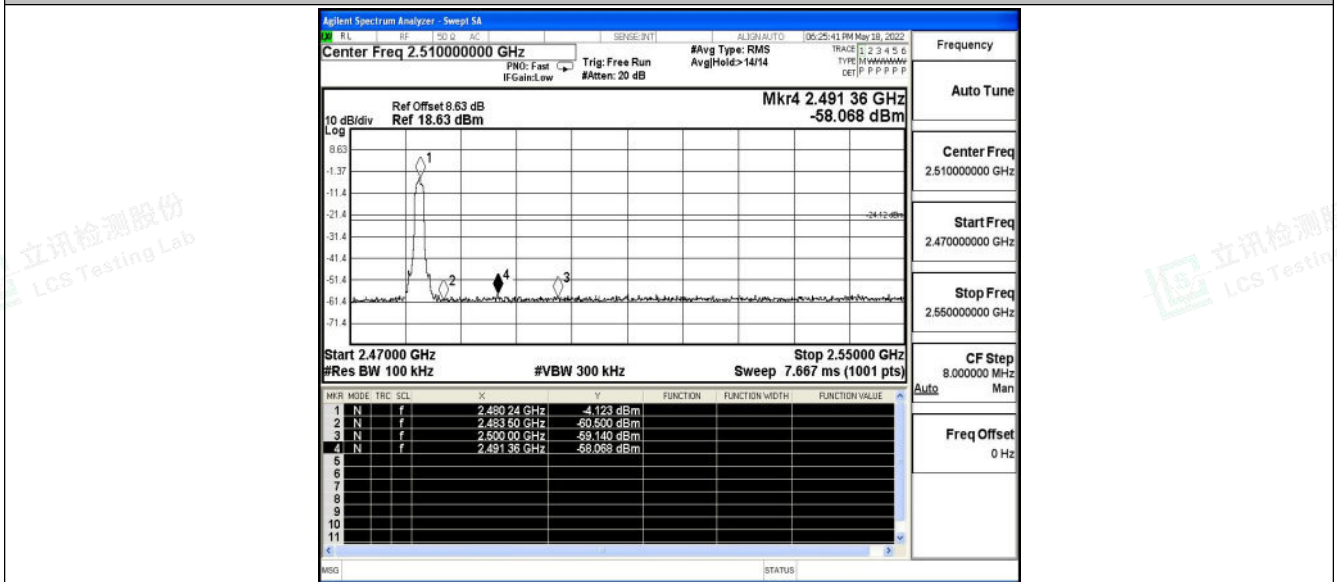


3DH5_Ant1_Low_2402



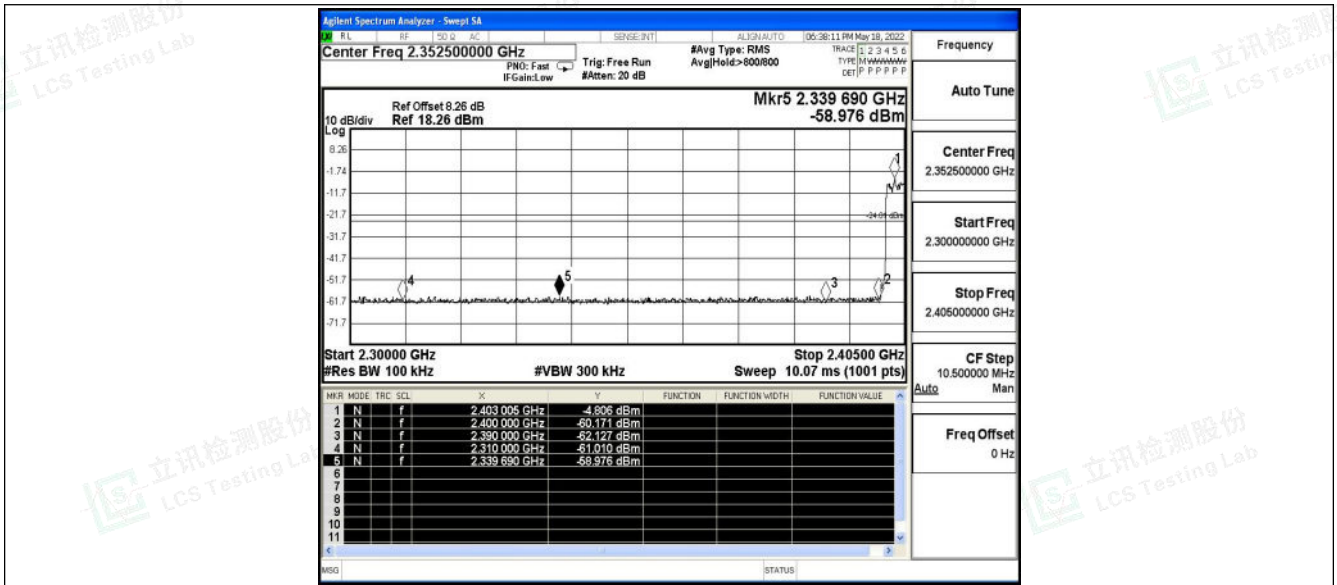


3DH5_Ant1_High_2480

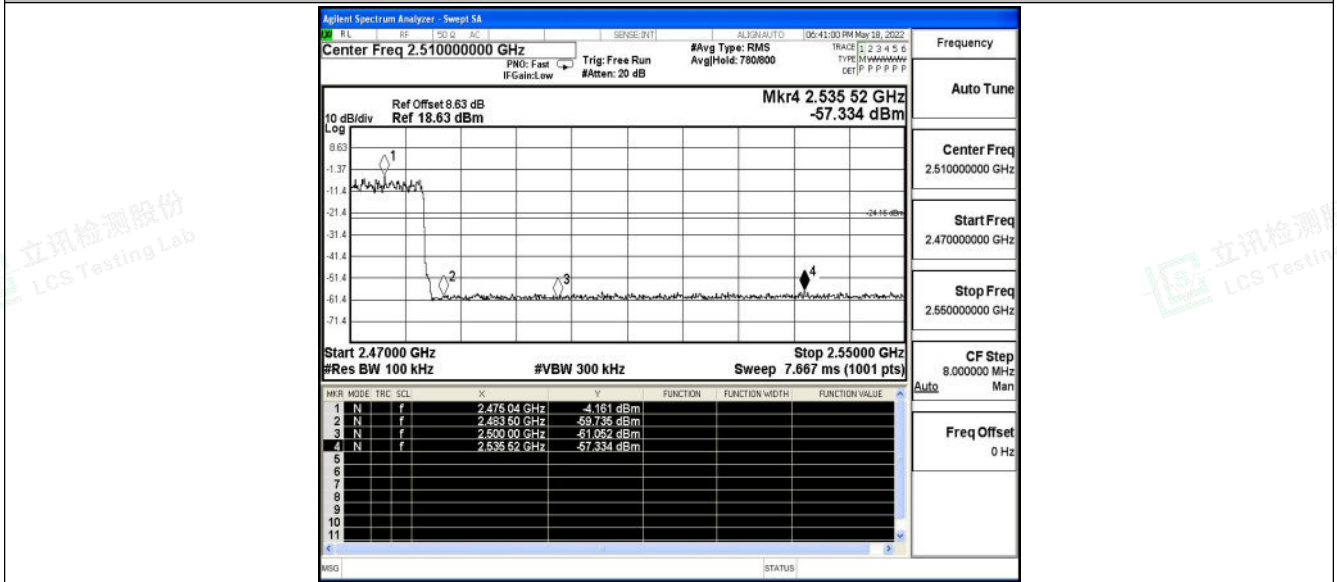


3DH5_Ant1_Low_Hop_2402





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	0.36	0.36	---	PASS
			30~1000	0.36	-50.06	≤-19.64	PASS
			1000~26500	0.36	-44.55	≤-19.64	PASS
		2441	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-49.99	≤-20.16	PASS
			1000~26500	-0.16	-46.34	≤-20.16	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-50.39	≤-20.95	PASS
			1000~26500	-0.95	-45.8	≤-20.95	PASS
2DH5	Ant1	2402	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-53.87	≤-23.14	PASS
			1000~26500	-3.14	-46.02	≤-23.14	PASS
		2441	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-52.07	≤-23.1	PASS
			1000~26500	-3.10	-46.21	≤-23.1	PASS
		2480	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-51.34	≤-23.91	PASS
			1000~26500	-3.91	-46.41	≤-23.91	PASS
3DH5	Ant1	2402	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-51.92	≤-23.3	PASS
			1000~26500	-3.30	-46.24	≤-23.3	PASS
		2441	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-51.18	≤-23.61	PASS
			1000~26500	-3.61	-46.13	≤-23.61	PASS
		2480	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-42.15	≤-24.16	PASS
			1000~26500	-4.16	-46.25	≤-24.16	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

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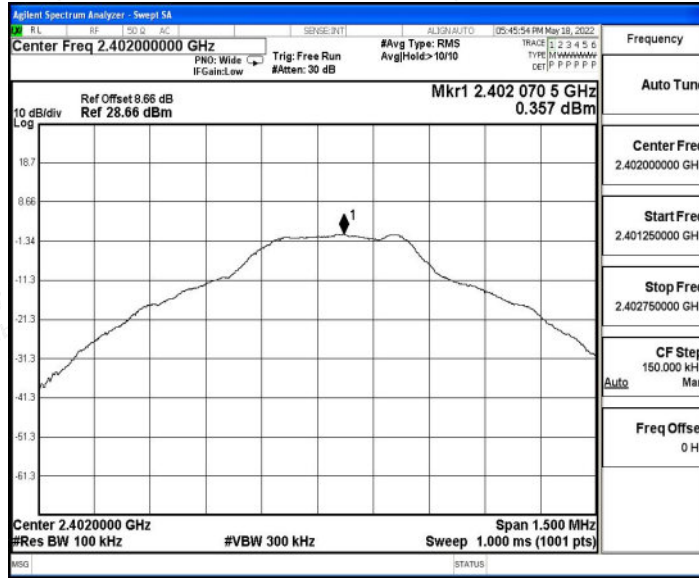
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

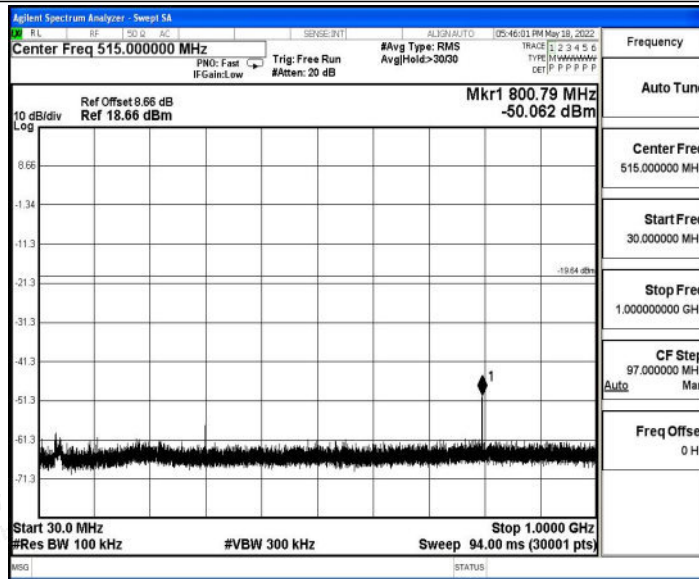


Test Graphs

DH5_Ant1_2402_0~Reference

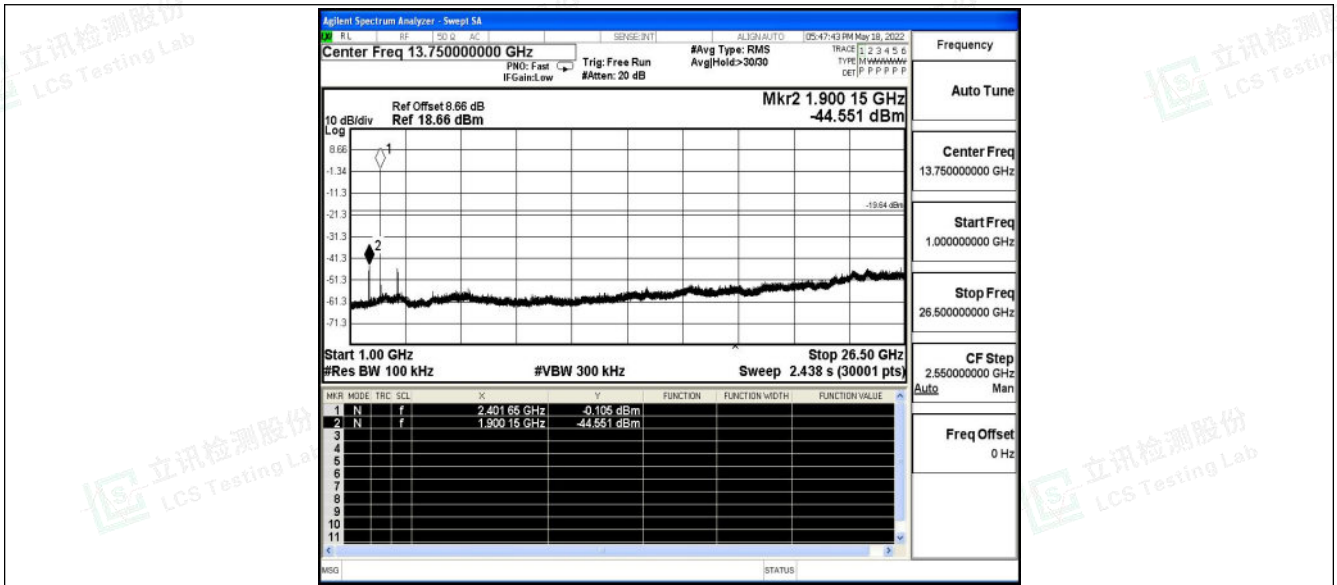


DH5_Ant1_2402_30~1000

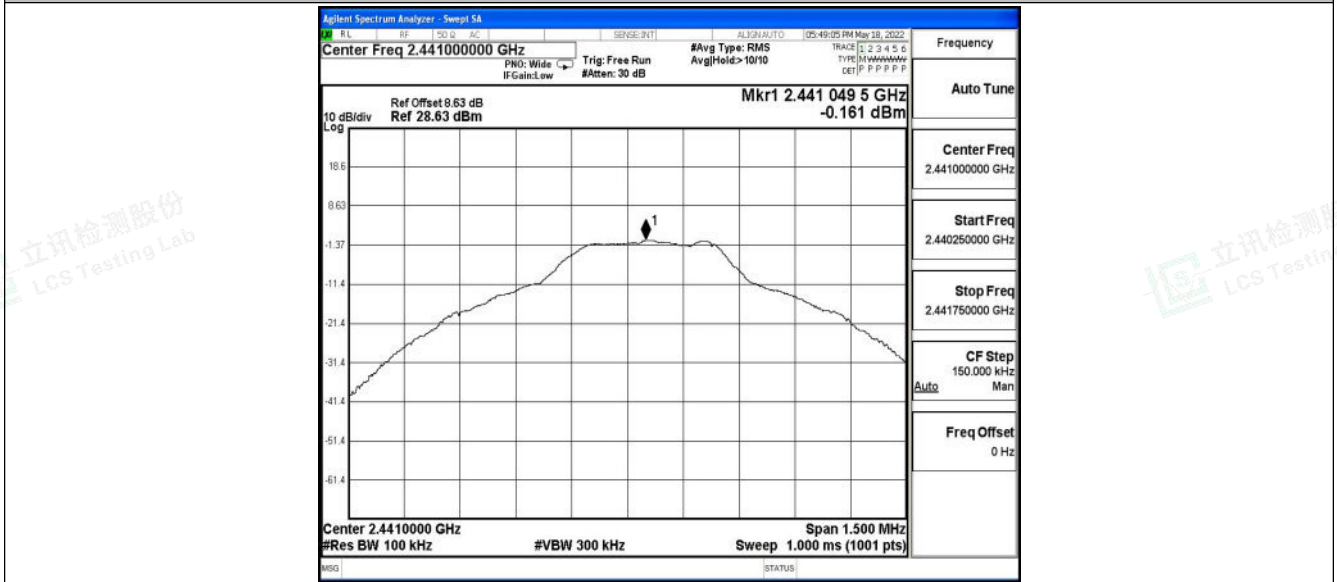


DH5_Ant1_2402_1000~26500



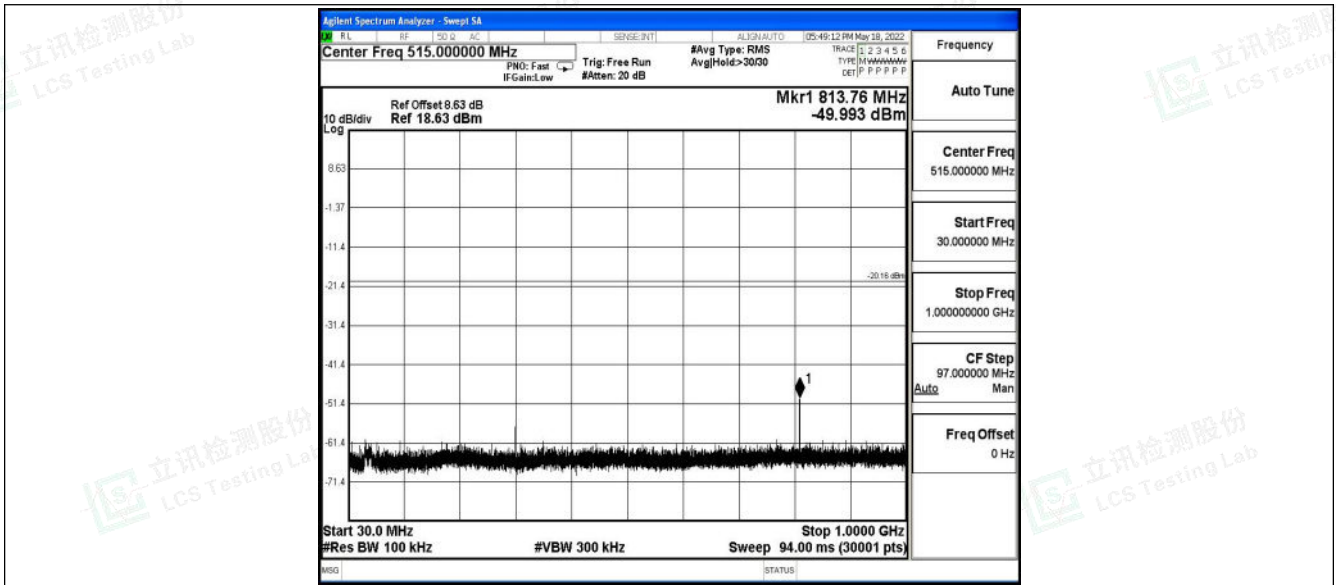


DH5_Ant1_2441_0~Reference

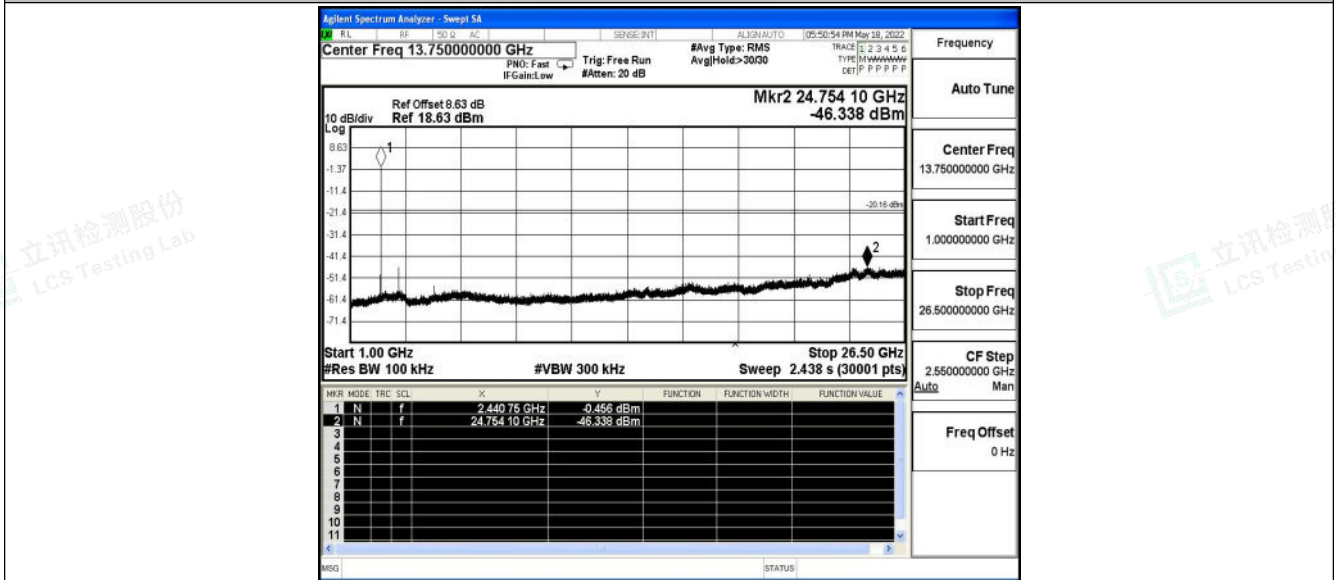


DH5_Ant1_2441_30~1000



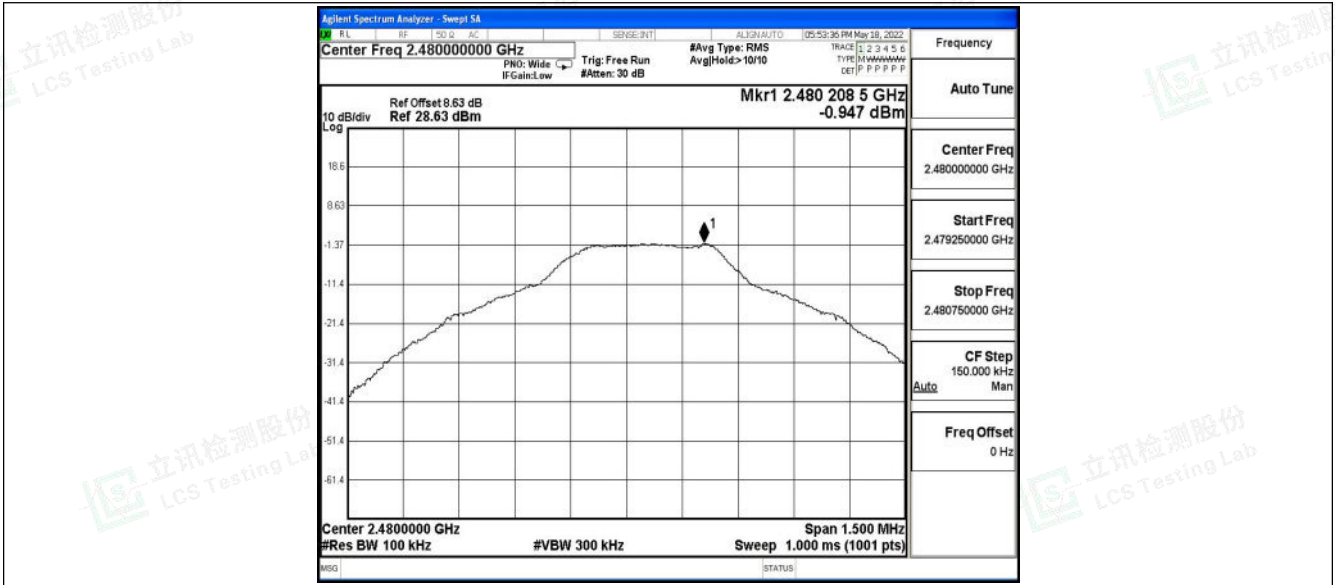


DH5_Ant1_2441_1000~26500

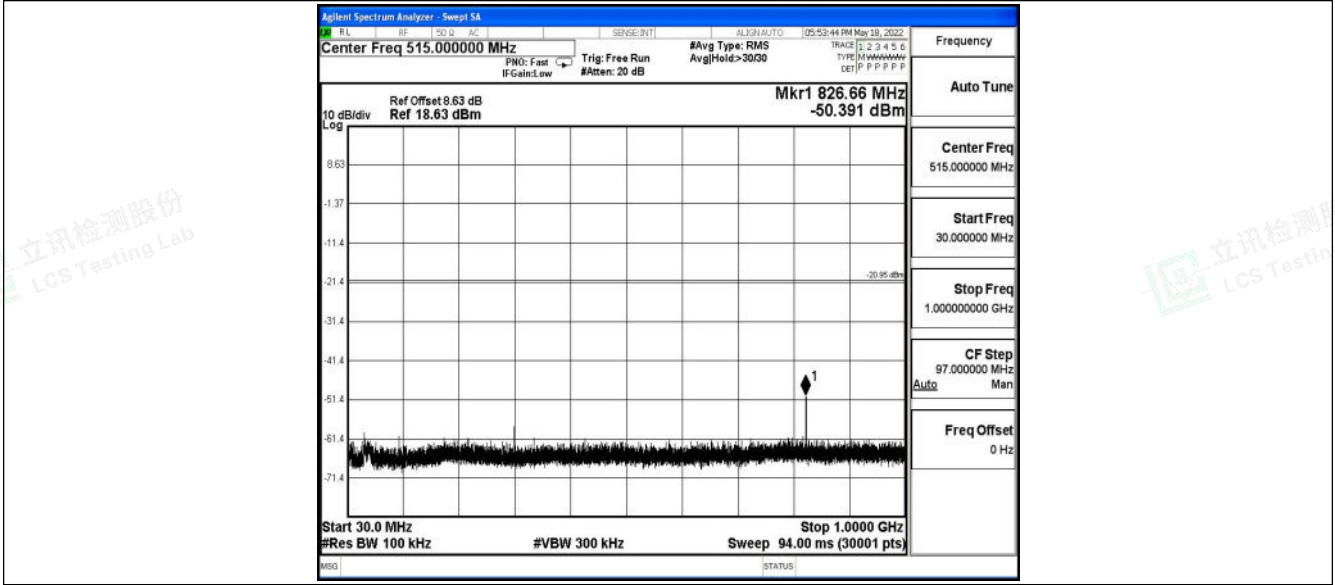


DH5_Ant1_2480_0~Reference



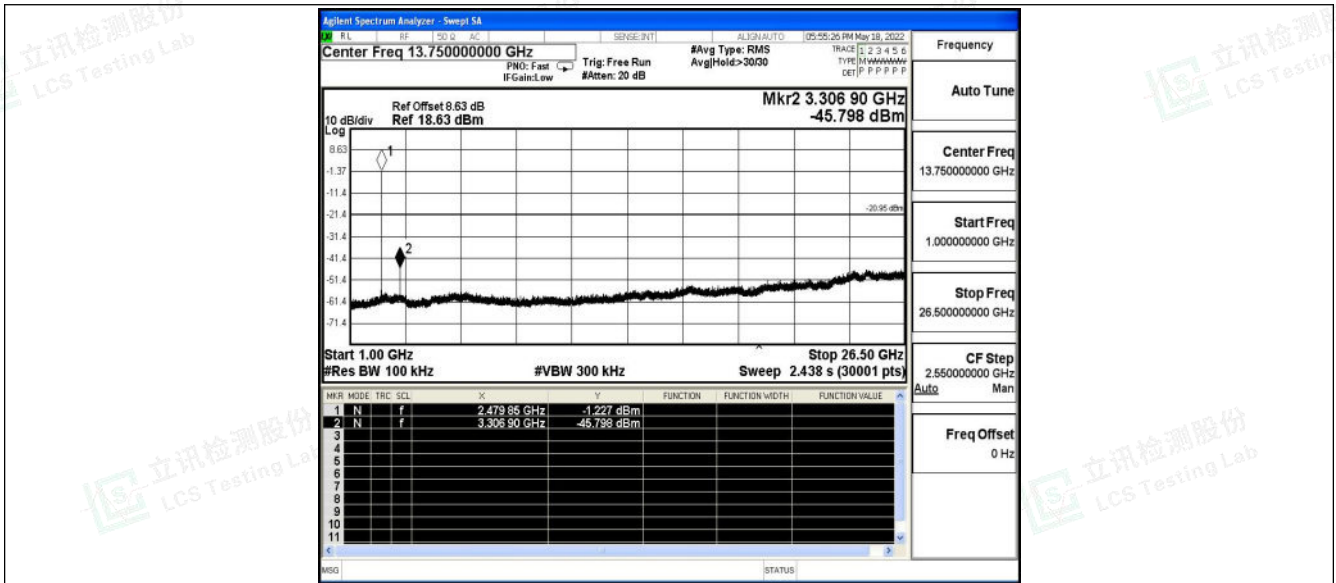


DH5_Ant1_2480_30~1000

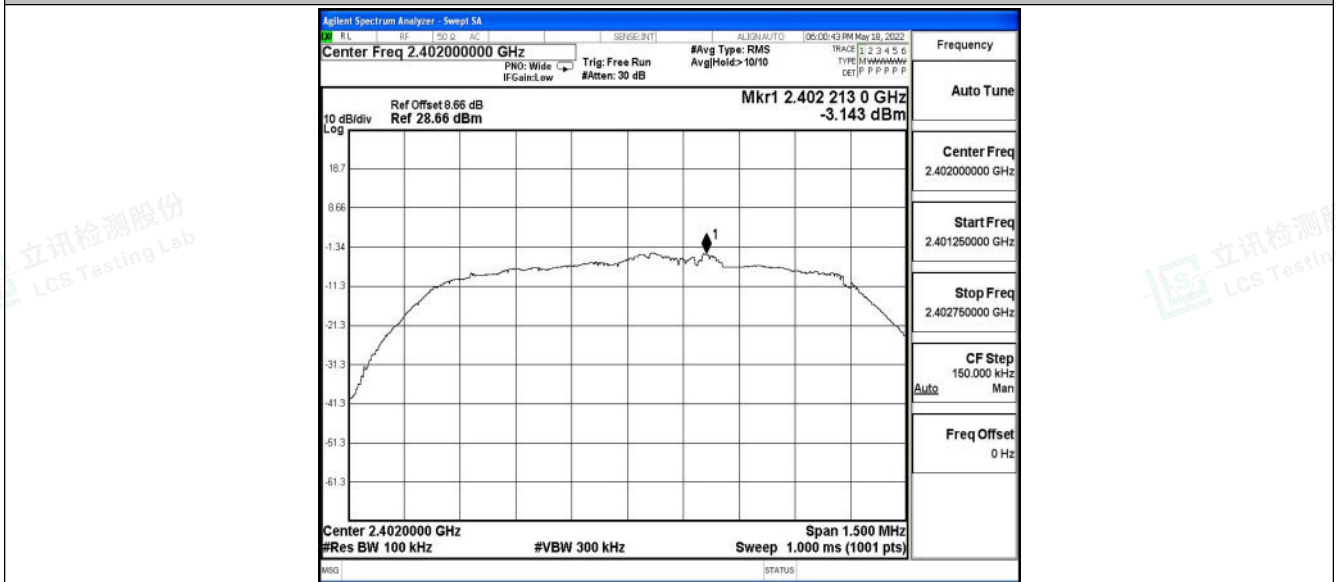


DH5_Ant1_2480_1000~26500



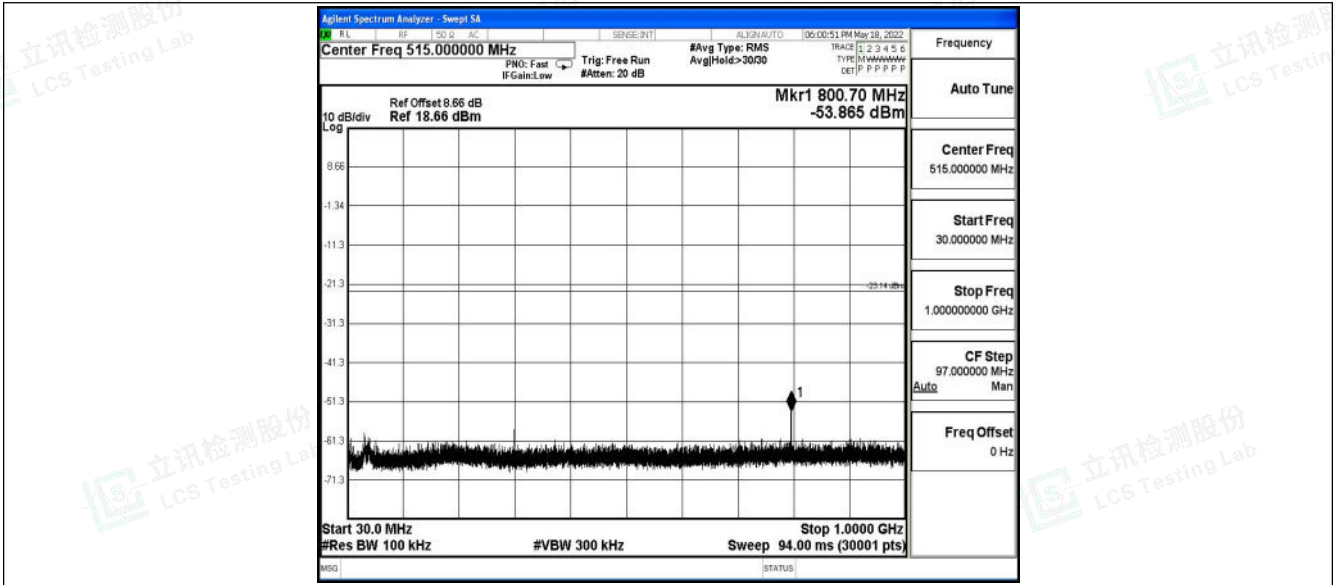


2DH5_Ant1_2402_0~Reference

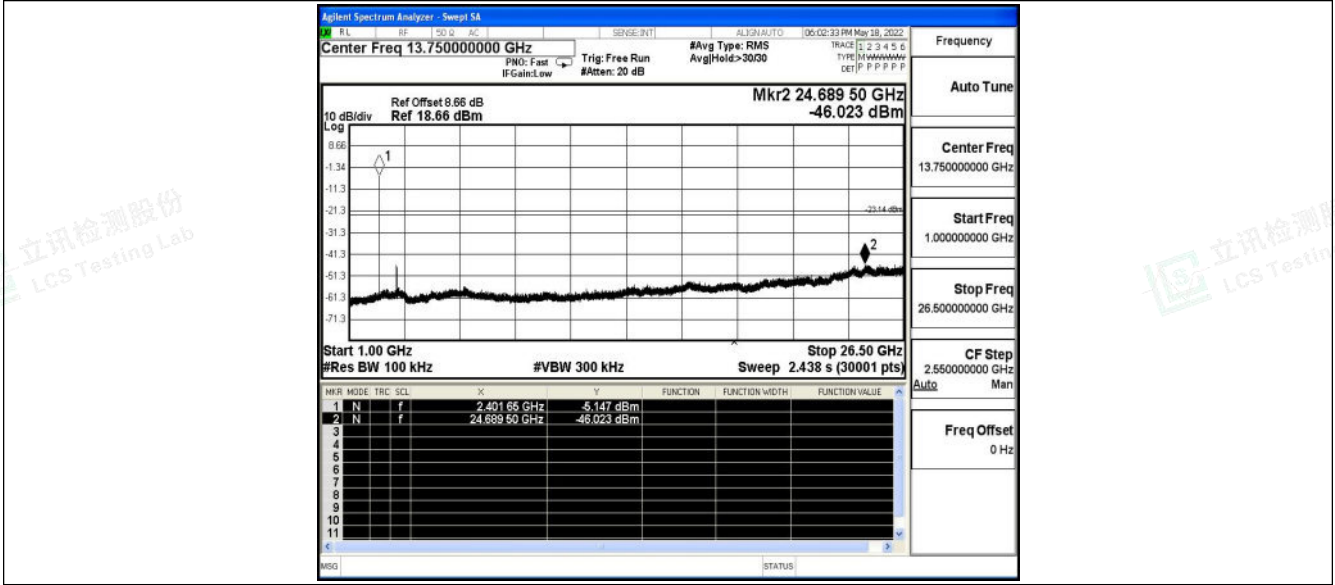


2DH5_Ant1_2402_30~1000



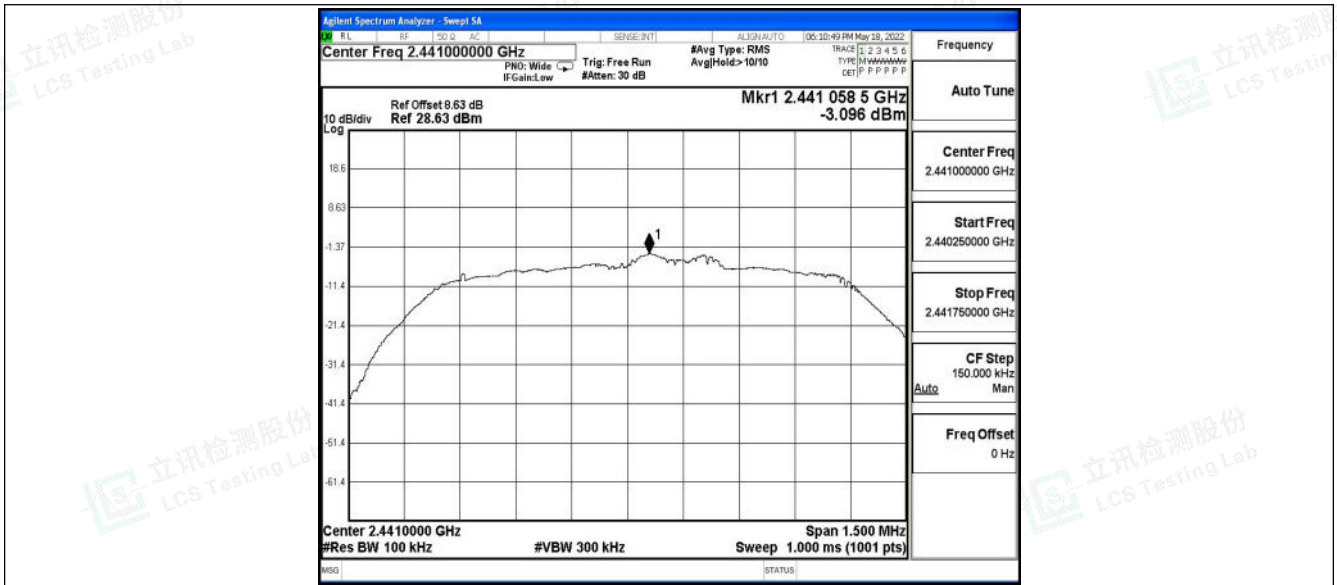


2DH5_Ant1_2402_1000~26500

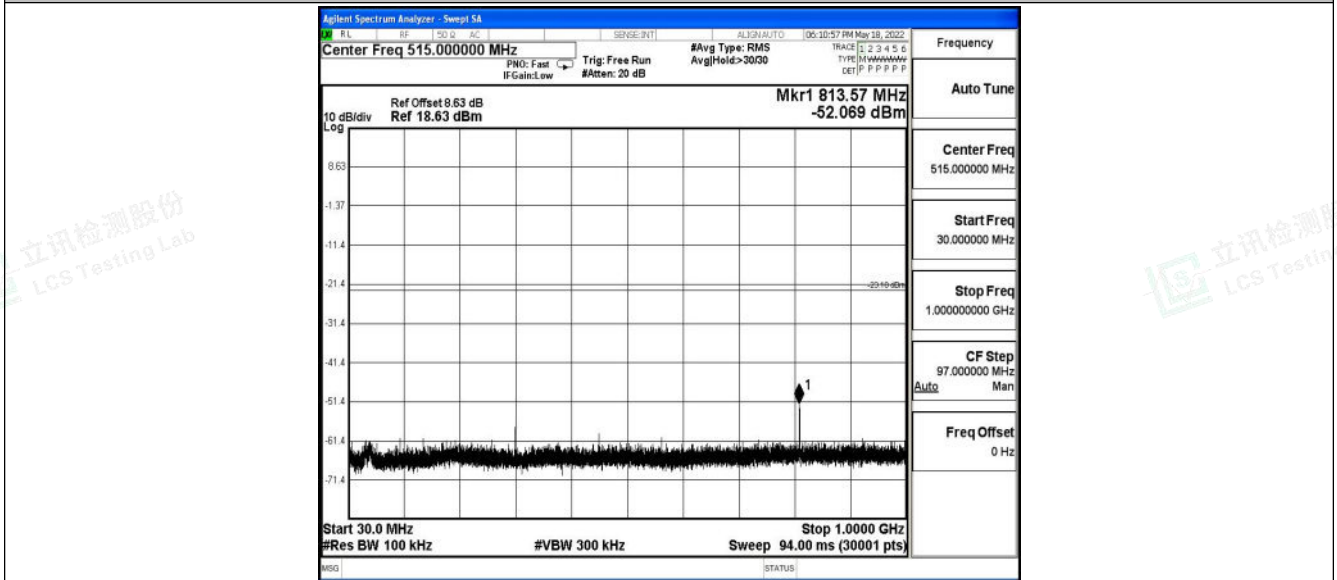


2DH5_Ant1_2441_0~Reference



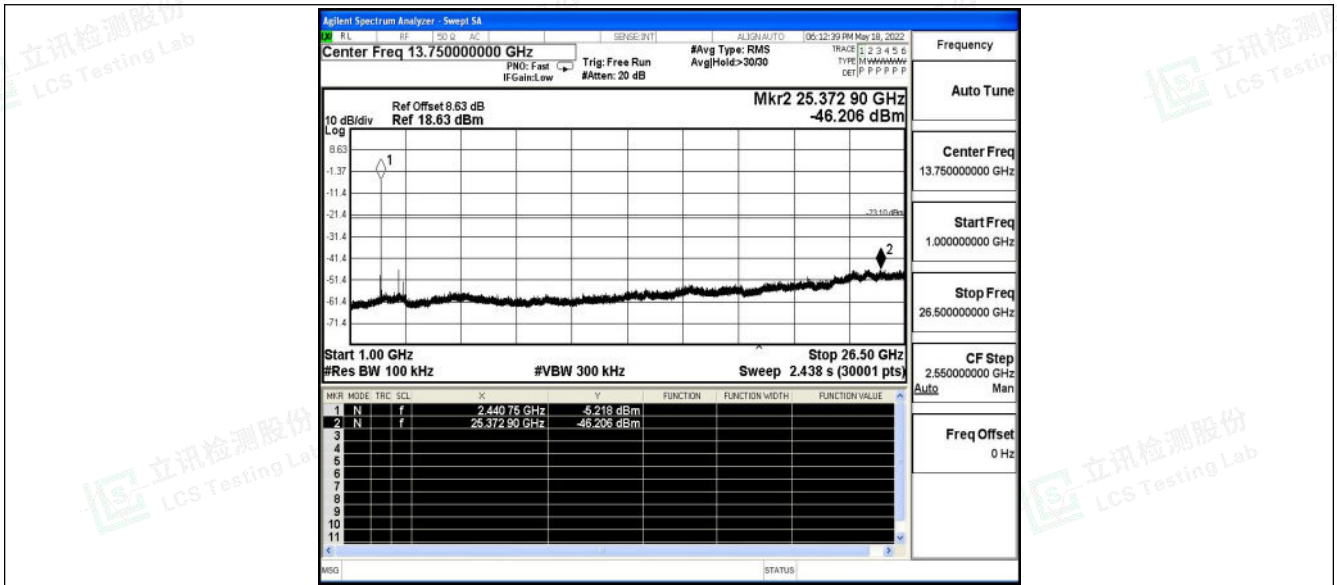


2DH5_Ant1_2441_30~1000

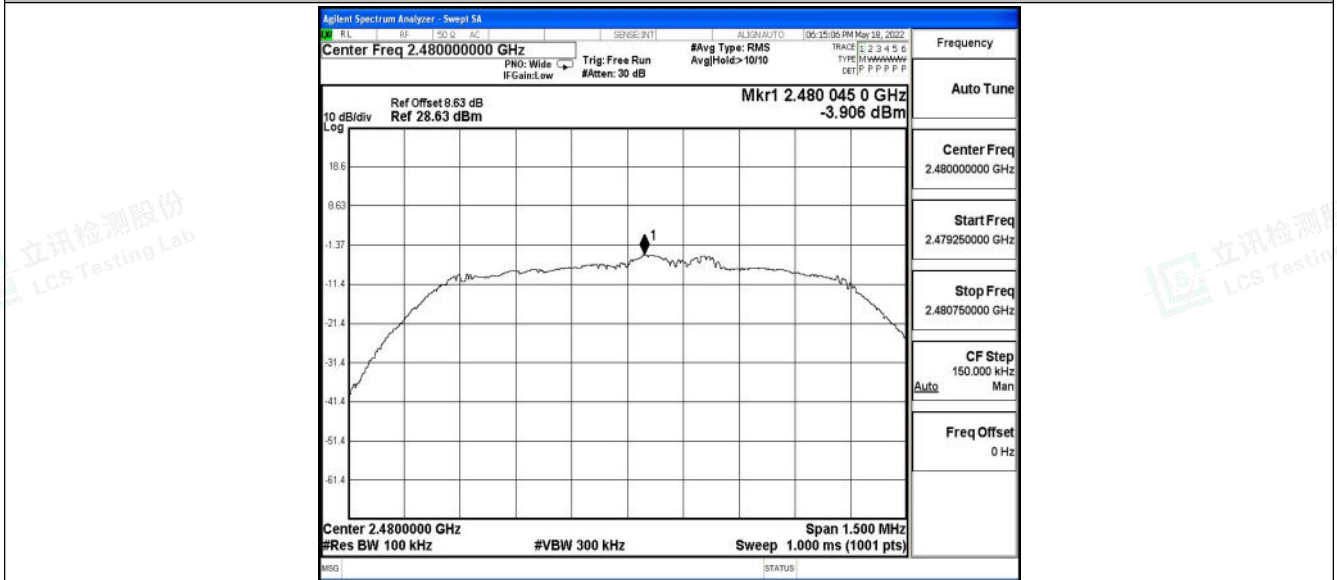


2DH5_Ant1_2441_1000~26500





2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

