



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Open TWS Headphones

Test Model: E35

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 20dB Emission Bandwidth

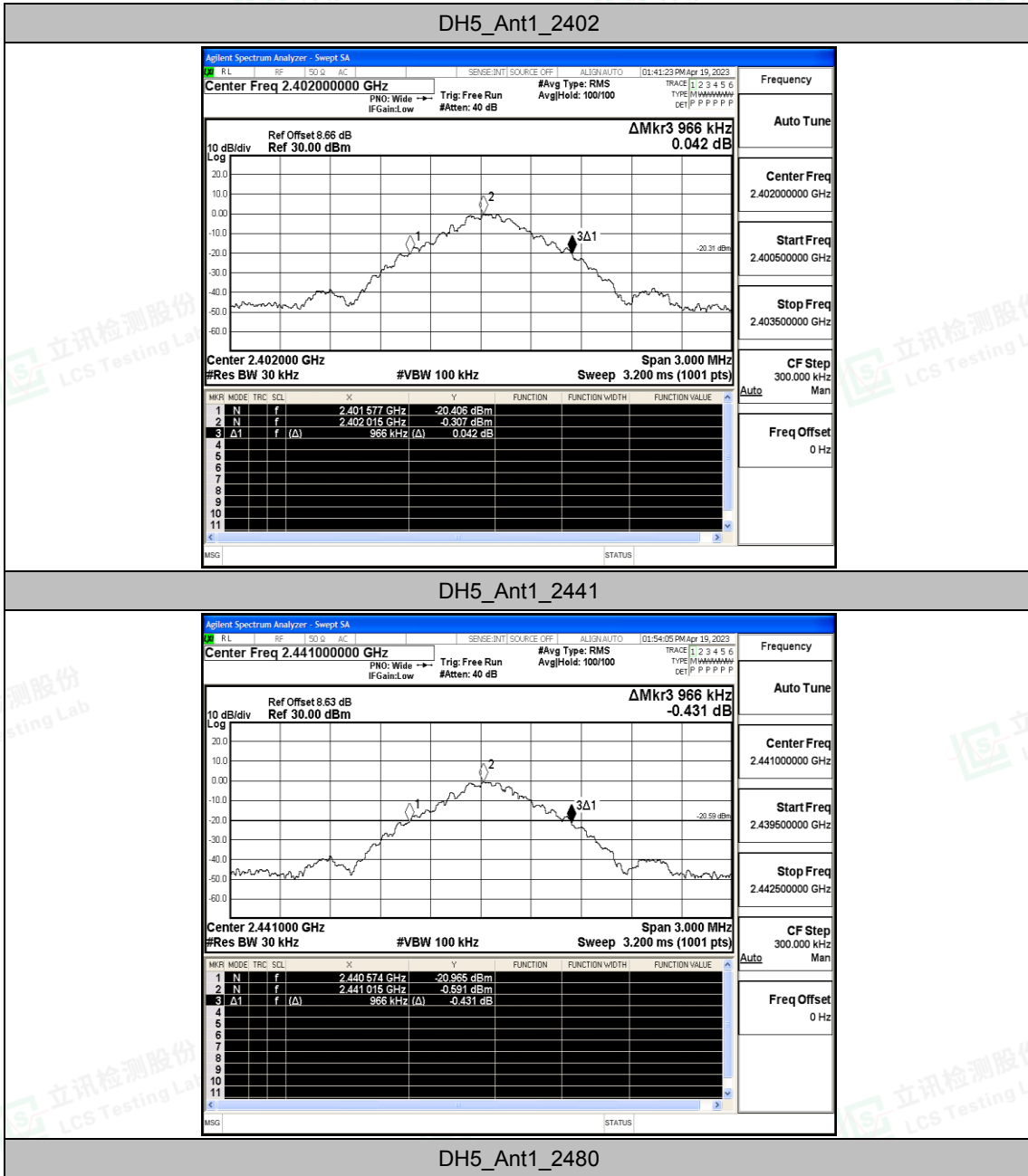
Test Result

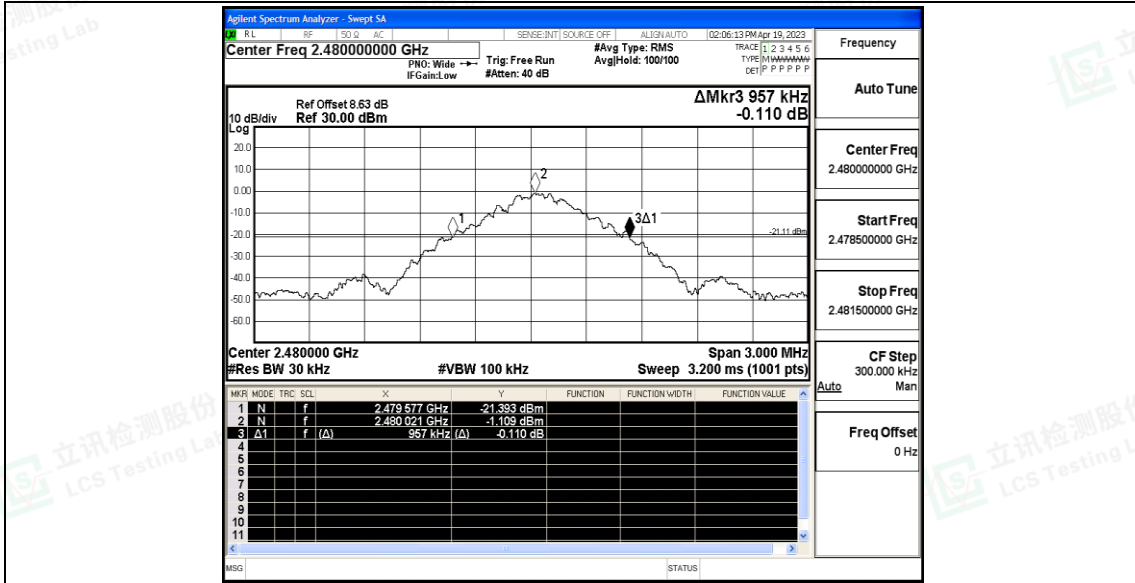
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.577	2402.543	N/A	PASS
		2441	0.966	2440.574	2441.540	N/A	PASS
		2480	0.957	2479.577	2480.534	N/A	PASS
2DH5	Ant1	2402	1.365	2401.367	2402.732	N/A	PASS
		2441	1.371	2440.361	2441.732	N/A	PASS
		2480	1.374	2479.358	2480.732	N/A	PASS
3DH5	Ant1	2402	1.353	2401.367	2402.720	N/A	PASS
		2441	1.356	2440.364	2441.720	N/A	PASS
		2480	1.353	2479.367	2480.720	N/A	PASS



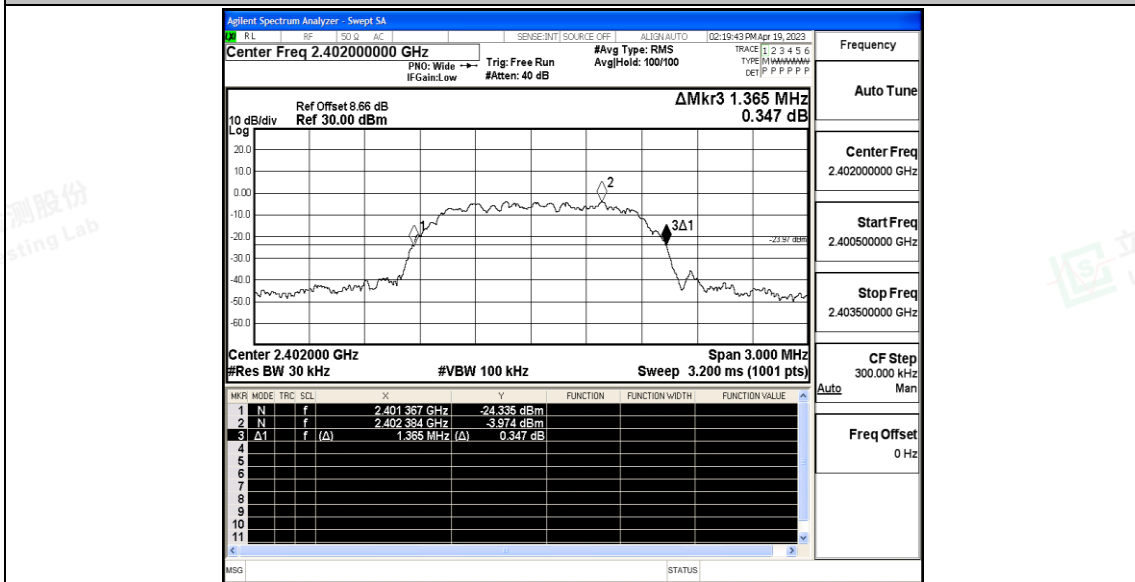


Test Graphs



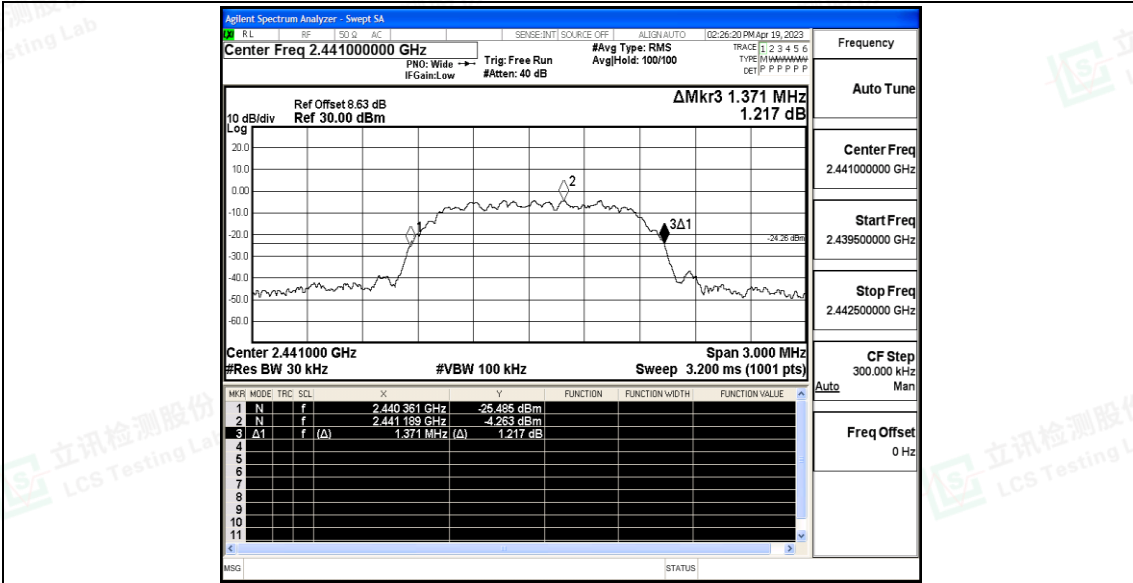


2DH5_Ant1_2402

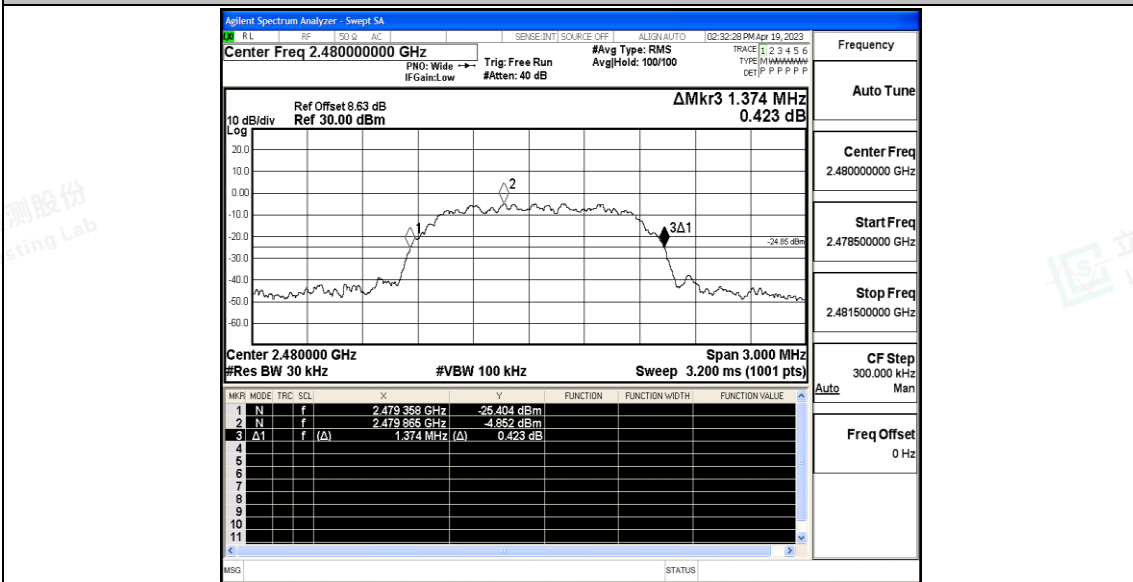


2DH5_Ant1_2441



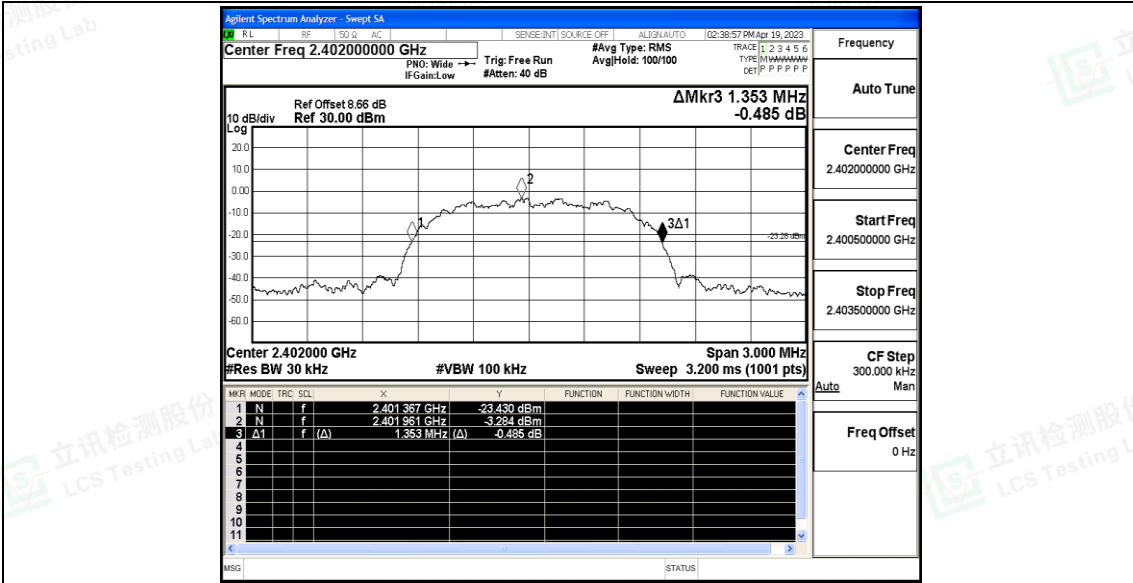


2DH5_Ant1_2480

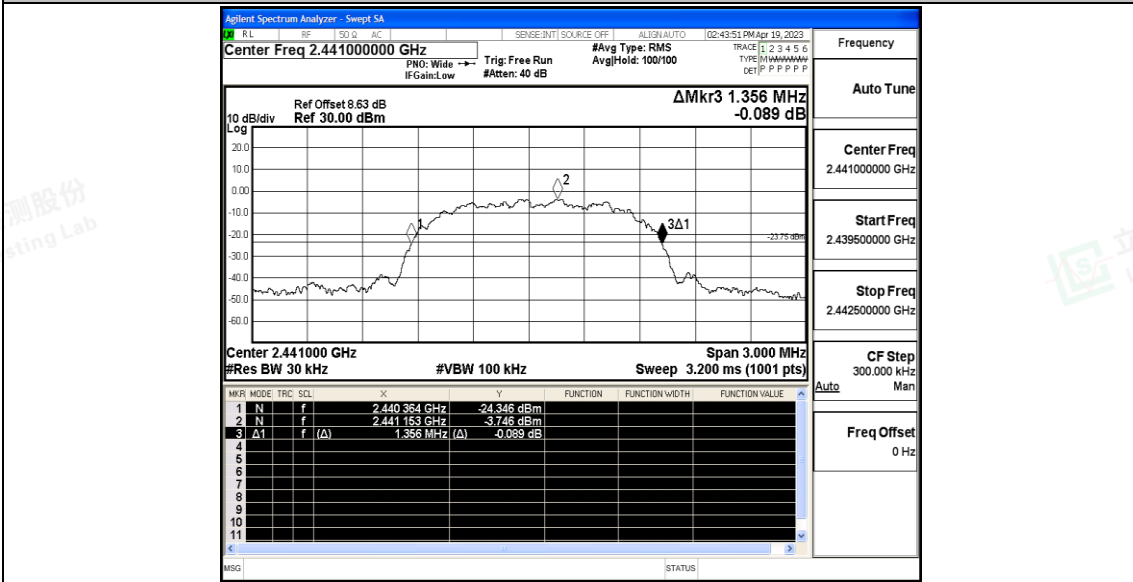


3DH5_Ant1_2402



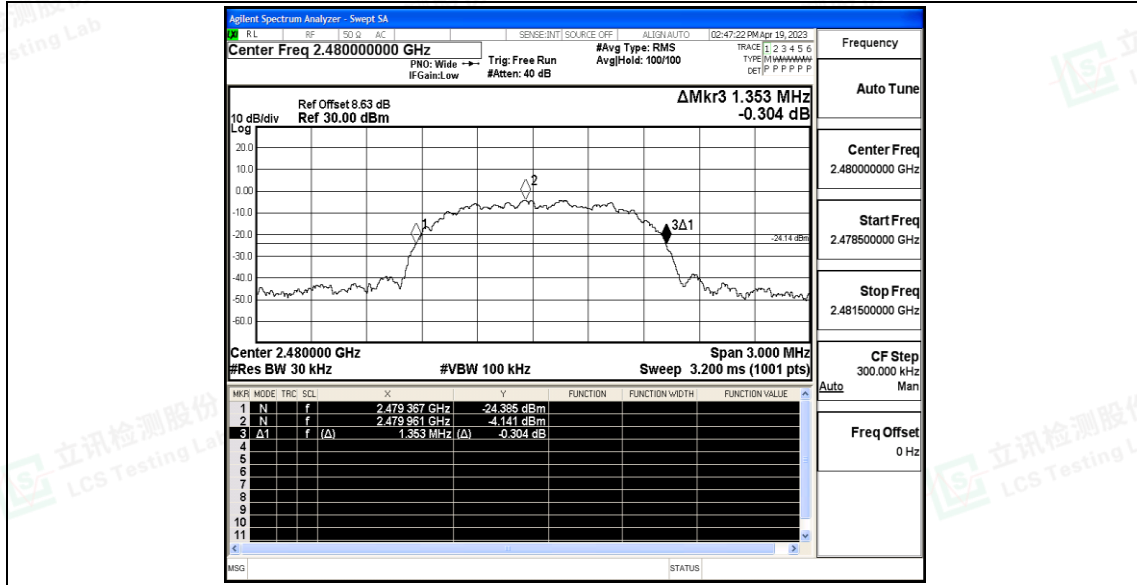


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

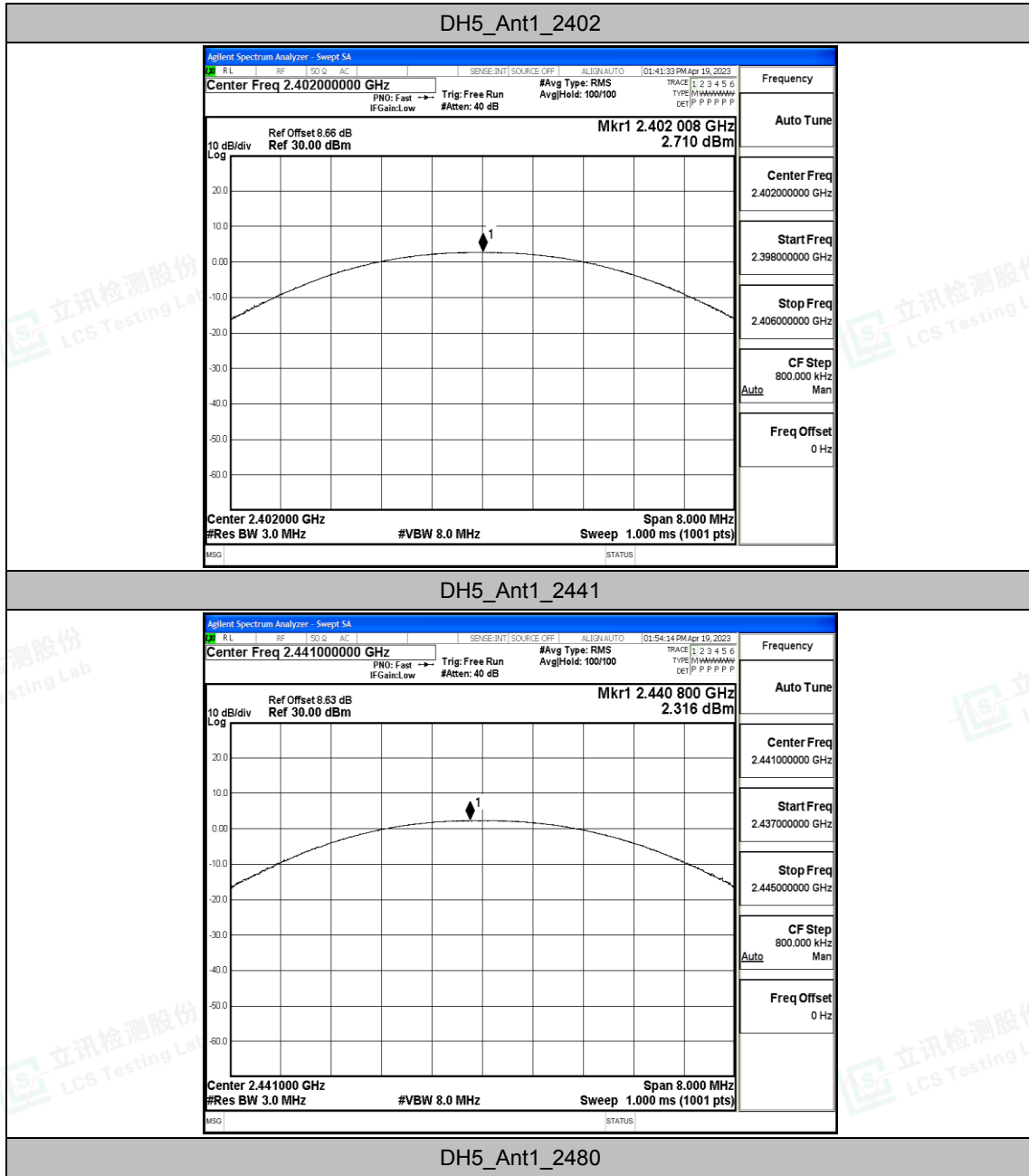
Test Result Peak

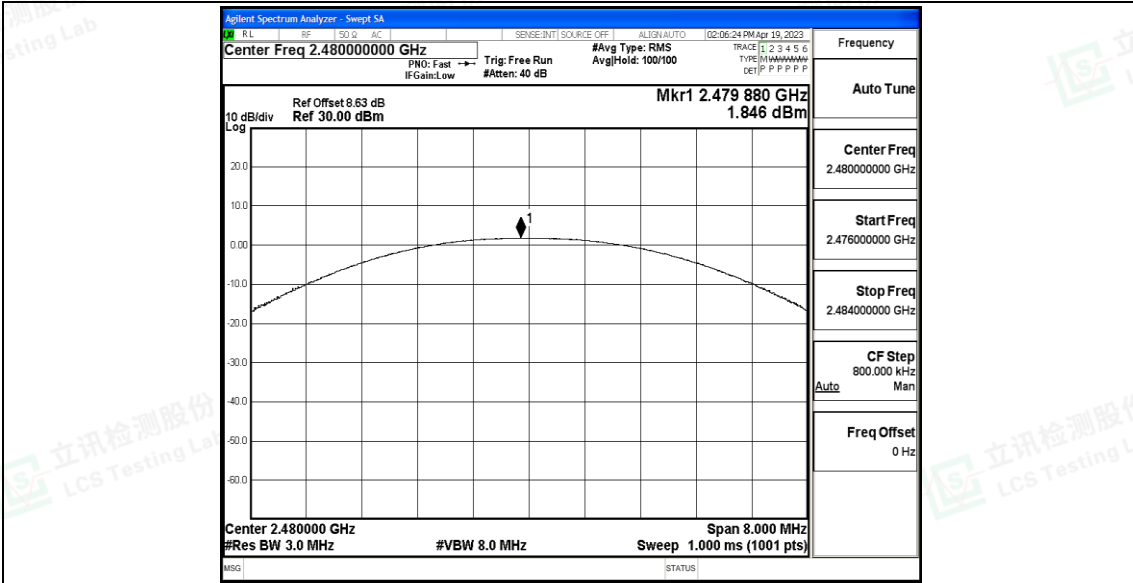
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.71	≤20.97	PASS
		2441	2.32	≤20.97	PASS
		2480	1.85	≤20.97	PASS
2DH5	Ant1	2402	5.02	≤20.97	PASS
		2441	4.65	≤20.97	PASS
		2480	4.20	≤20.97	PASS
3DH5	Ant1	2402	5.48	≤20.97	PASS
		2441	5.05	≤20.97	PASS
		2480	4.71	≤20.97	PASS



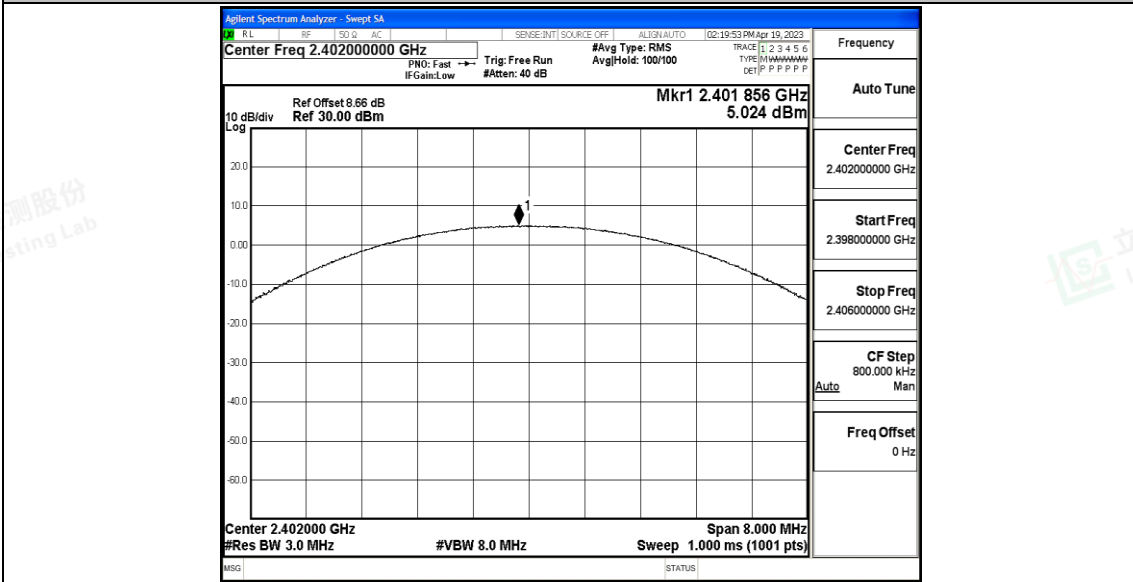


Test Graphs



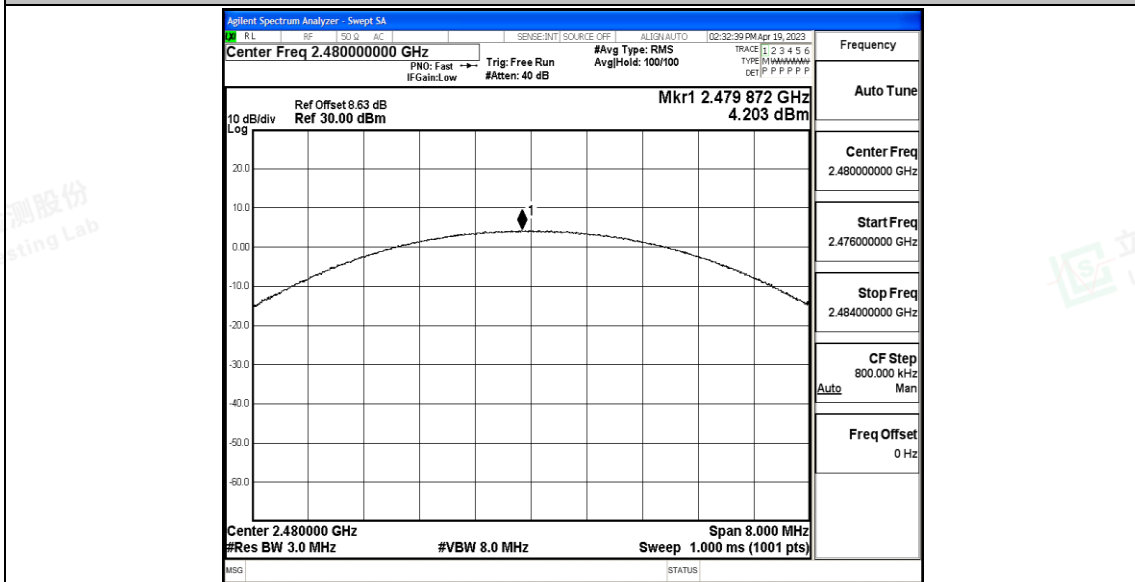
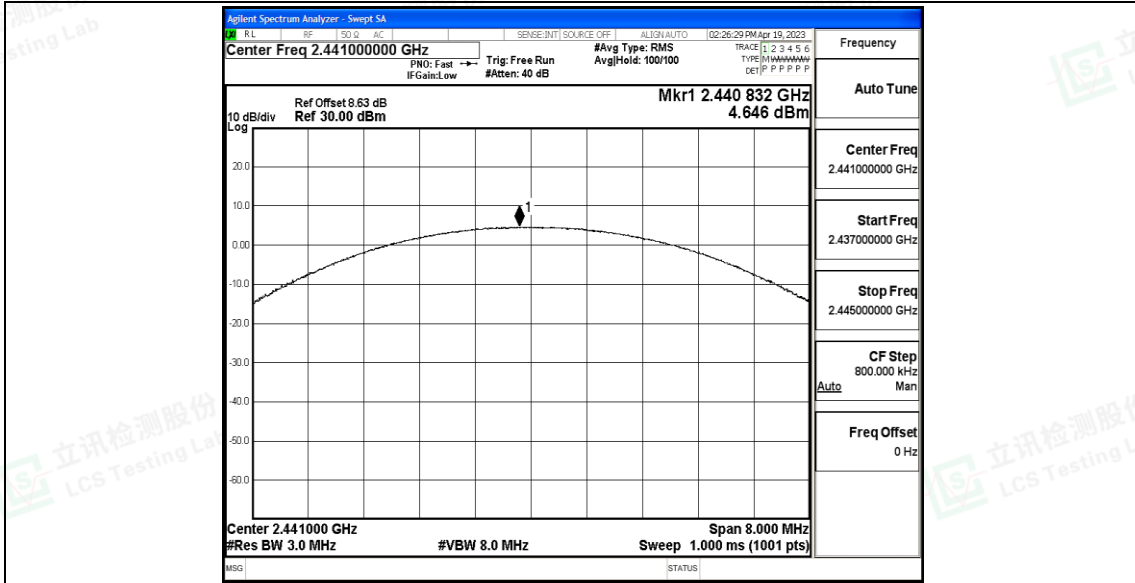


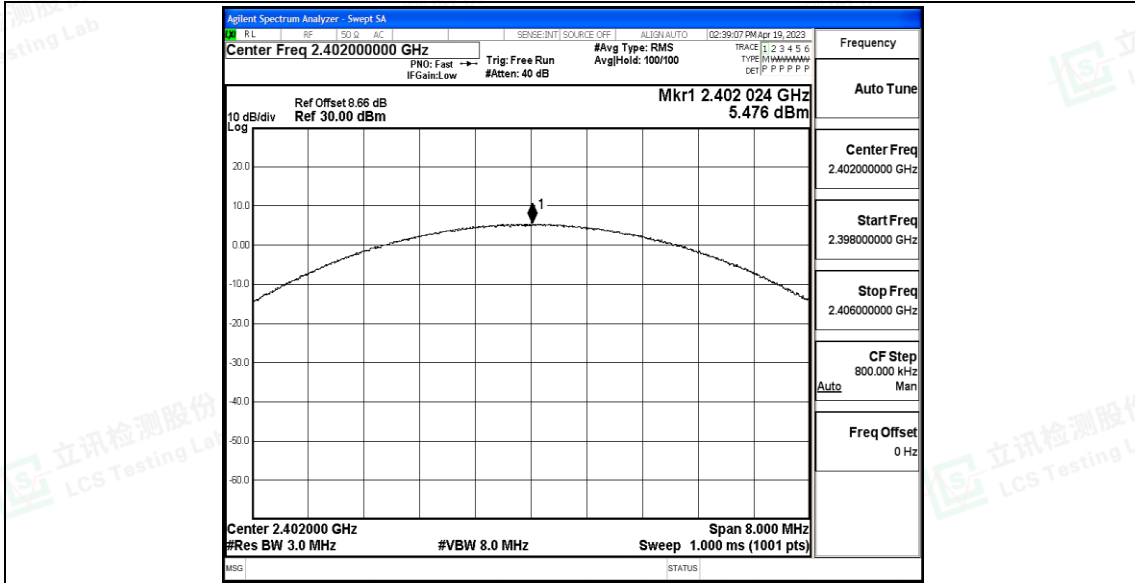
2DH5_Ant1_2402



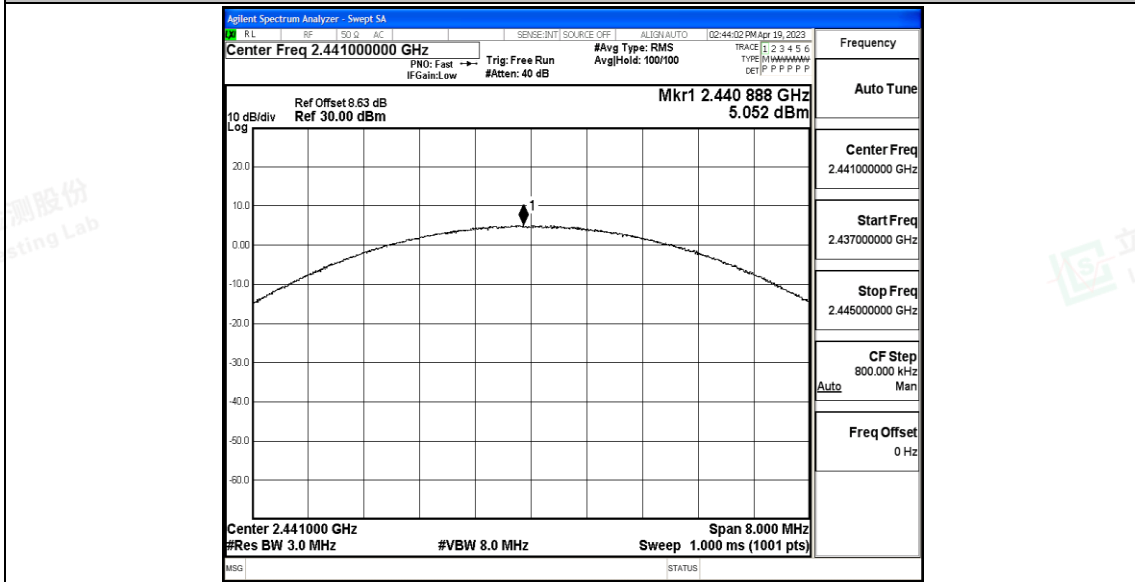
2DH5_Ant1_2441





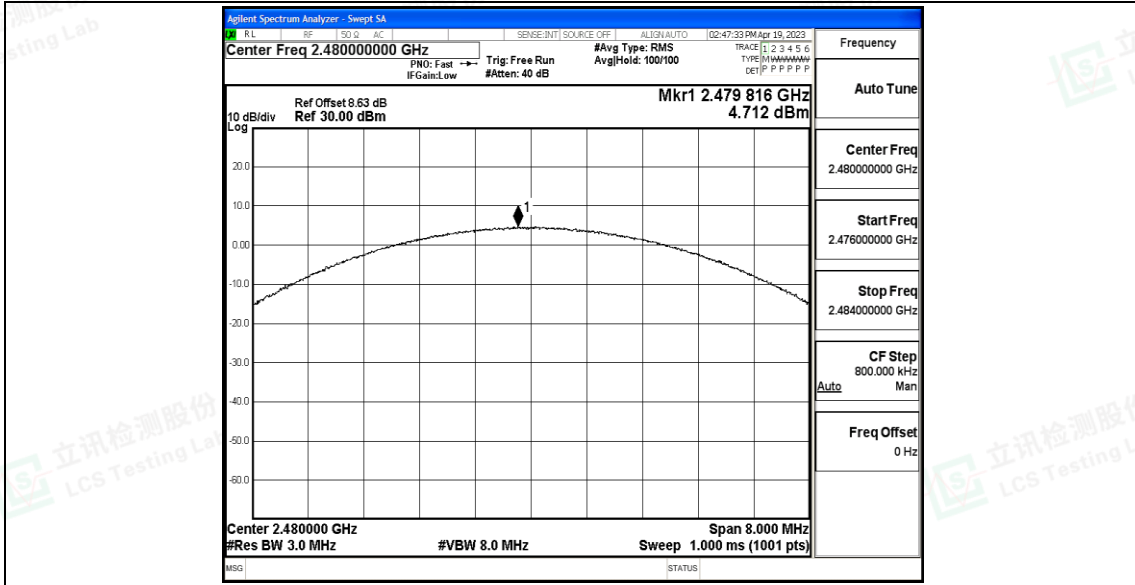


3DH5_Ant1_2441



3DH5_Ant1_2480





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



A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.966	PASS
2DH5	Ant1	Hop	0.96	≥0.916	PASS
3DH5	Ant1	Hop	1.014	≥0.904	PASS

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

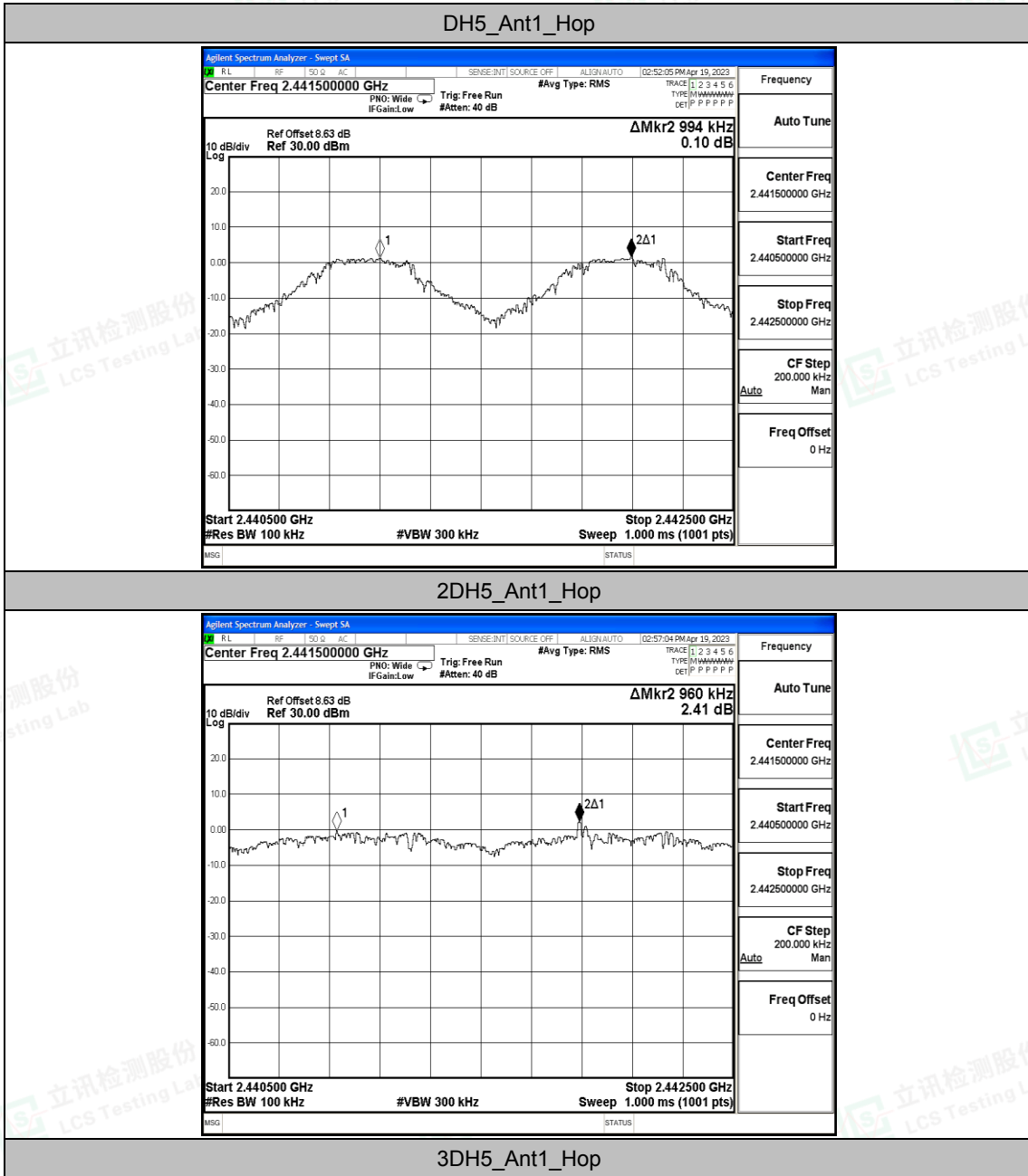
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

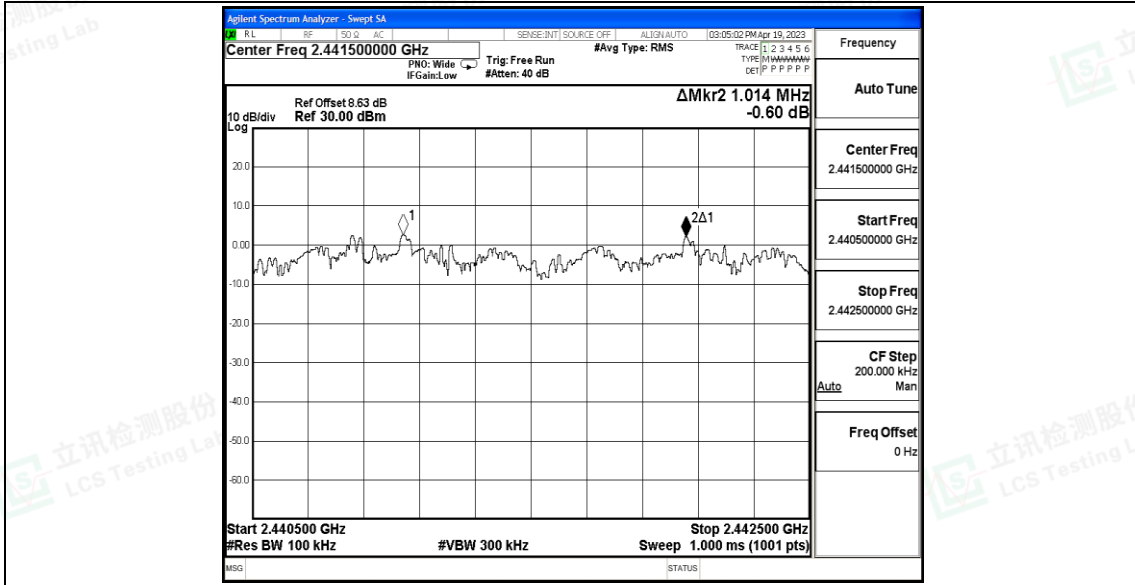
Scan code to check authenticity





Test Graphs





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



A.4 Time of occupancy

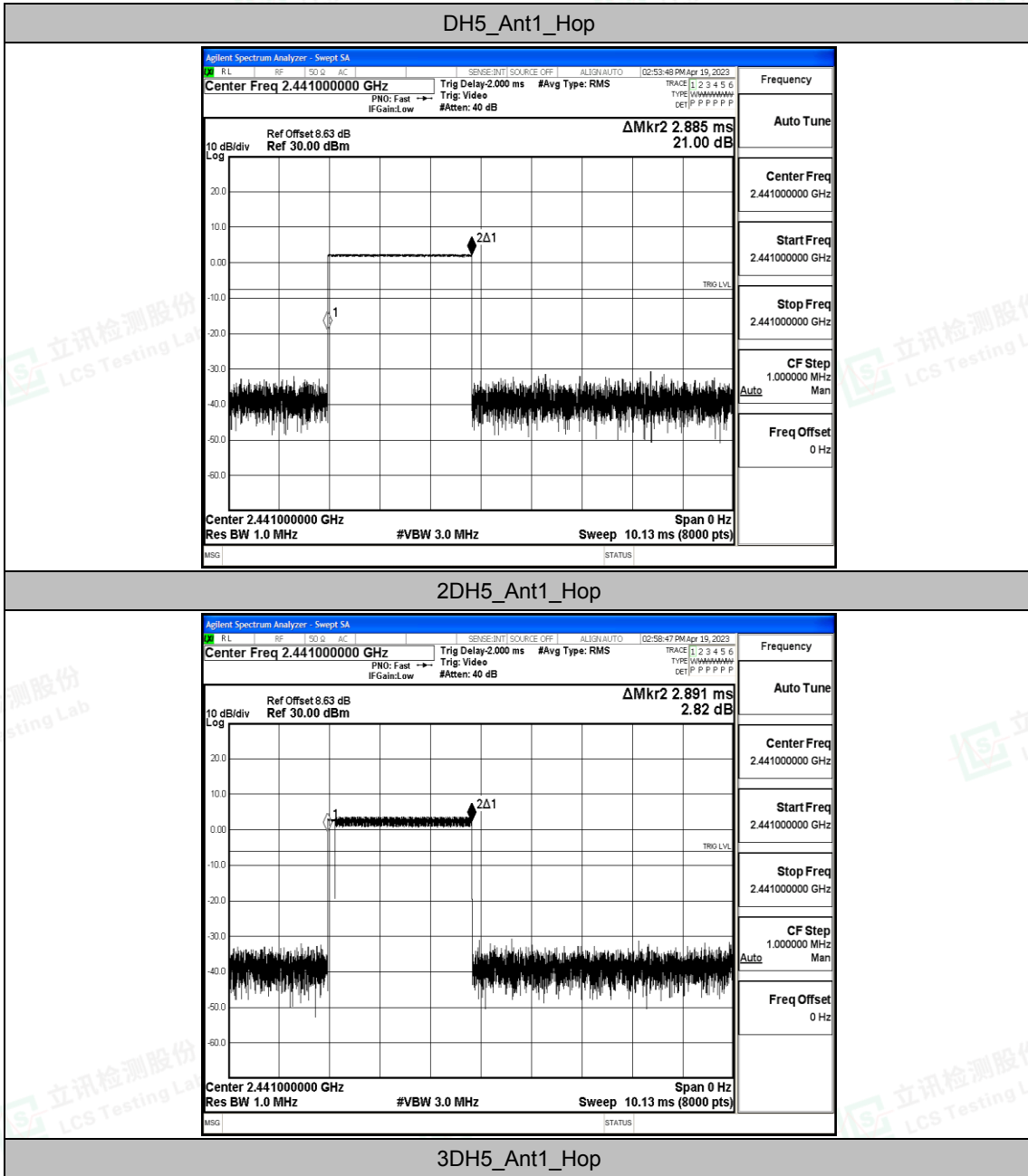
Test Result

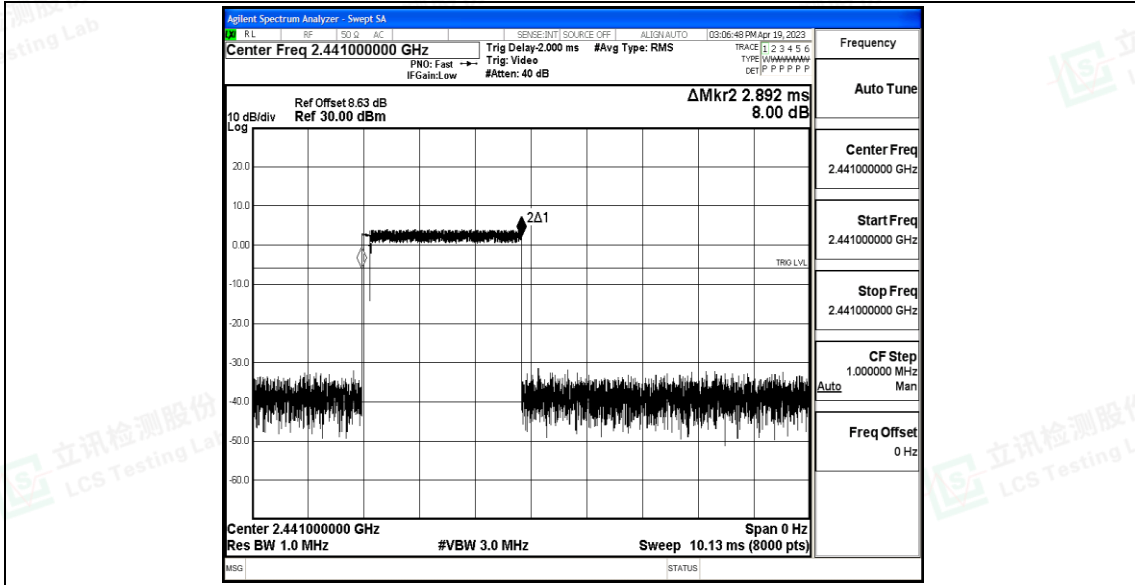
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.891	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.892	106.67	0.308	≤0.4	PASS





Test Graphs





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



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
3DH5	Ant1	Hop	79	≥15	PASS

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

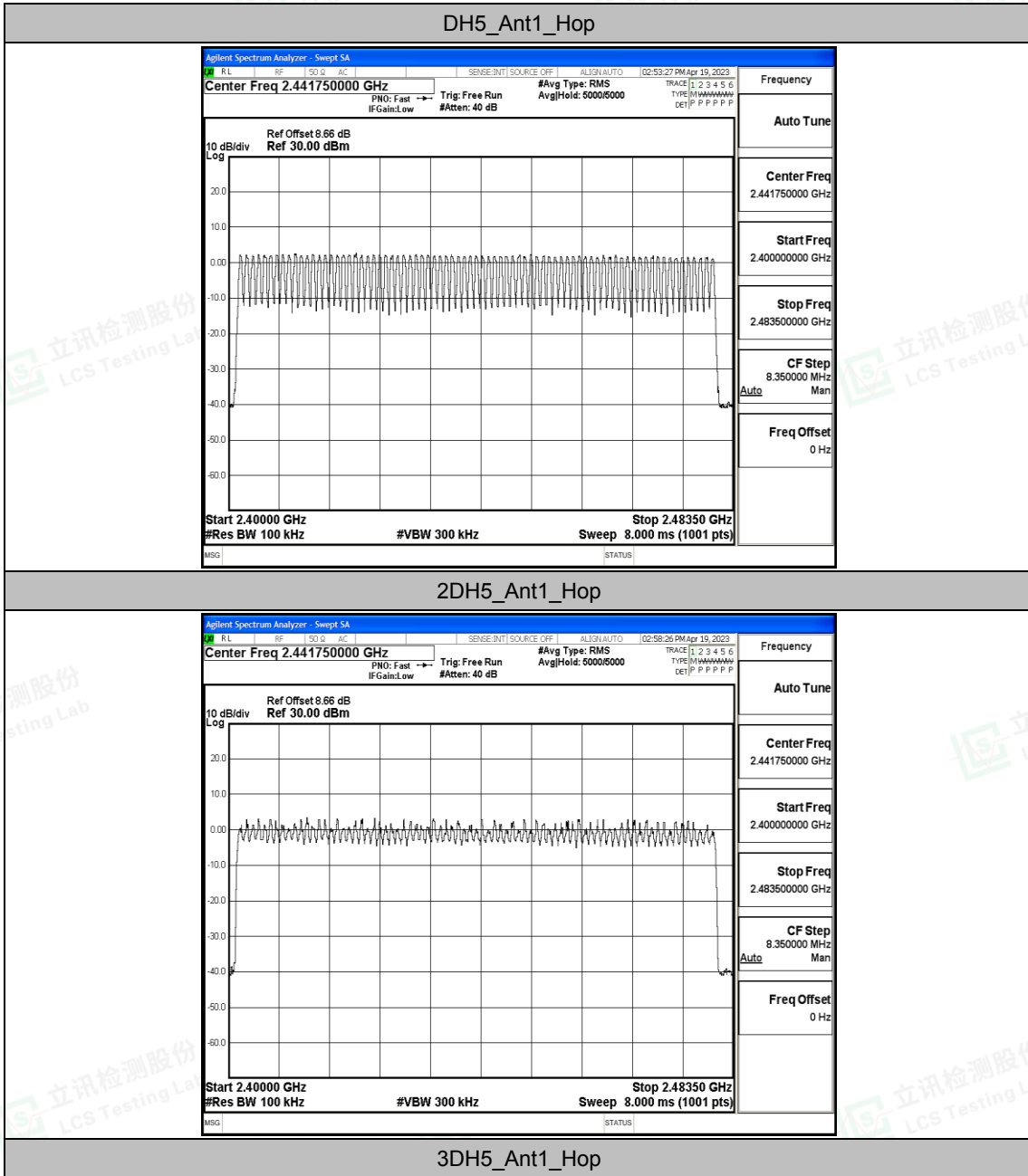
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

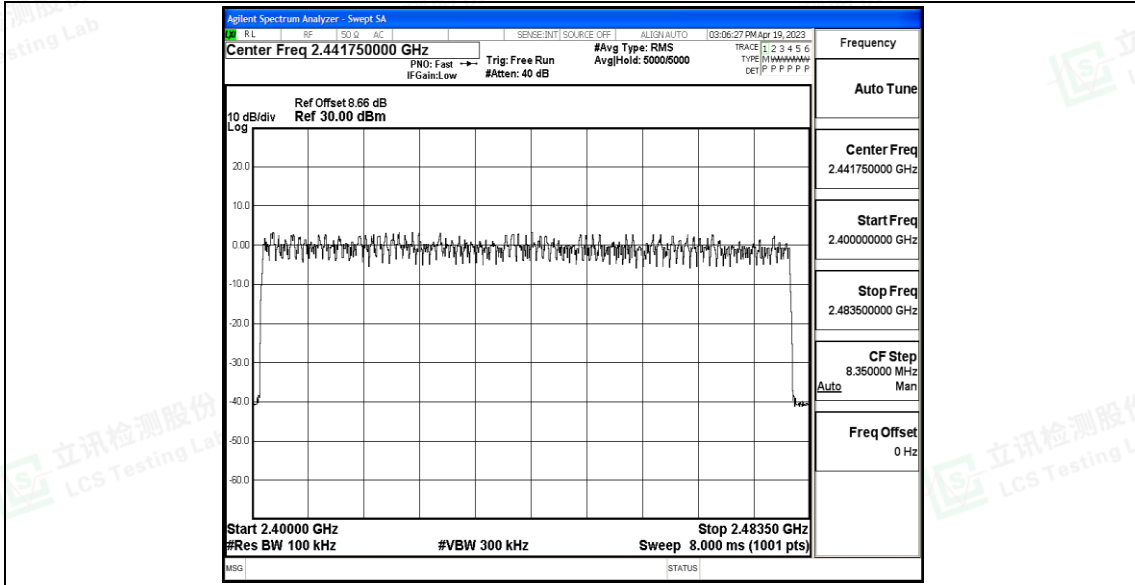
Scan code to check authenticity





Test Graphs





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



A.6 Band edge measurements

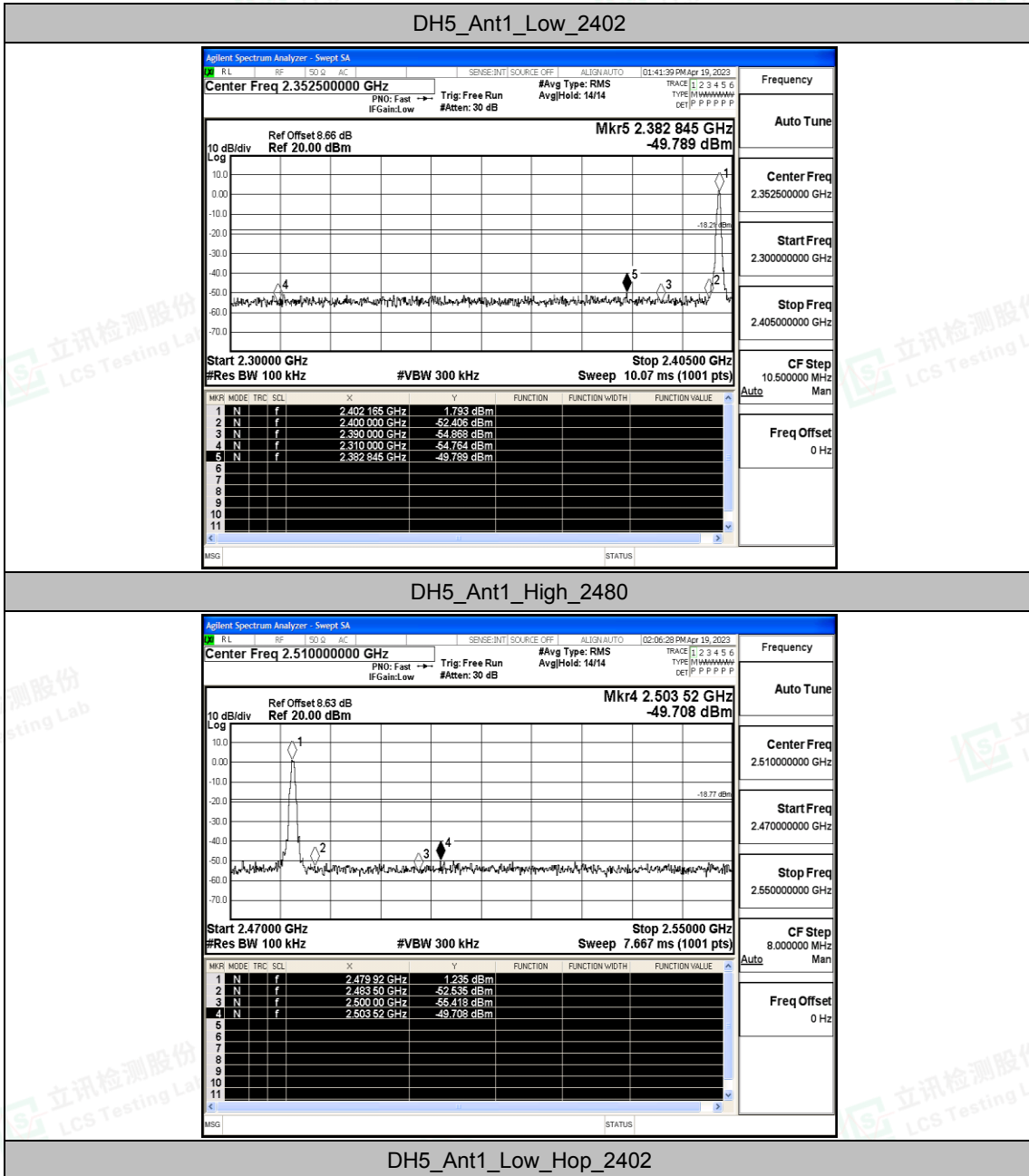
Test Result

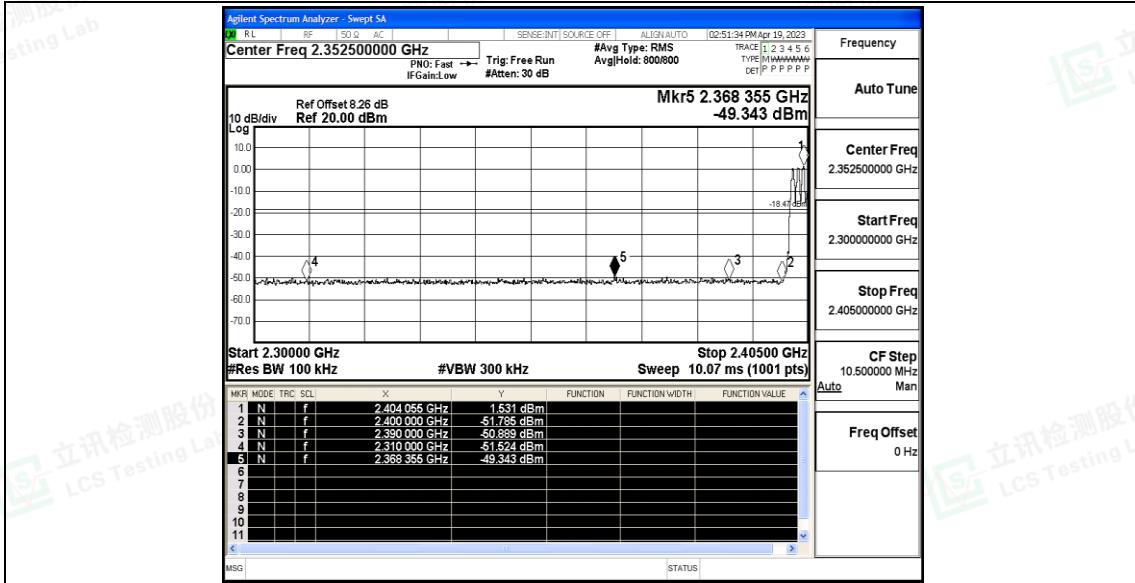
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.79	-49.79	≤-18.21	PASS
		High	2480	1.24	-49.71	≤-18.77	PASS
		Low	Hop_2402	1.53	-49.34	≤-18.47	PASS
		High	Hop_2480	1.02	-49.14	≤-18.98	PASS
2DH5	Ant1	Low	2402	-0.07	-50	≤-20.07	PASS
		High	2480	-0.58	-50.3	≤-20.58	PASS
		Low	Hop_2402	-0.98	-49.04	≤-20.98	PASS
		High	Hop_2480	1.68	-48.26	≤-18.32	PASS
3DH5	Ant1	Low	2402	0.15	-50.22	≤-19.85	PASS
		High	2480	0.28	-49.89	≤-19.72	PASS
		Low	Hop_2402	0.96	-49.3	≤-19.05	PASS
		High	Hop_2480	2.51	-49.08	≤-17.49	PASS



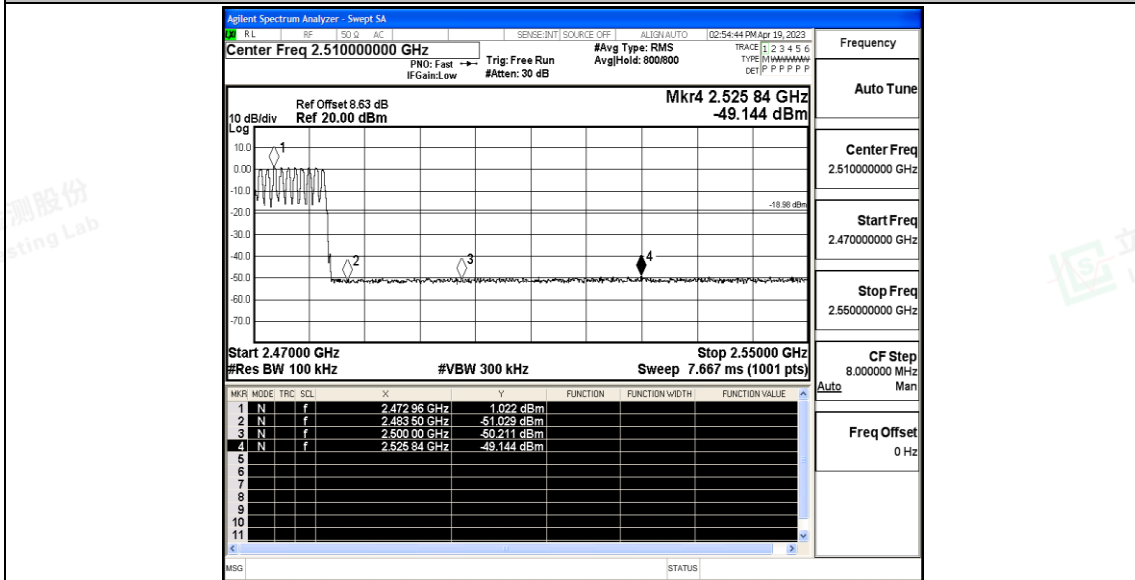


Test Graphs





DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

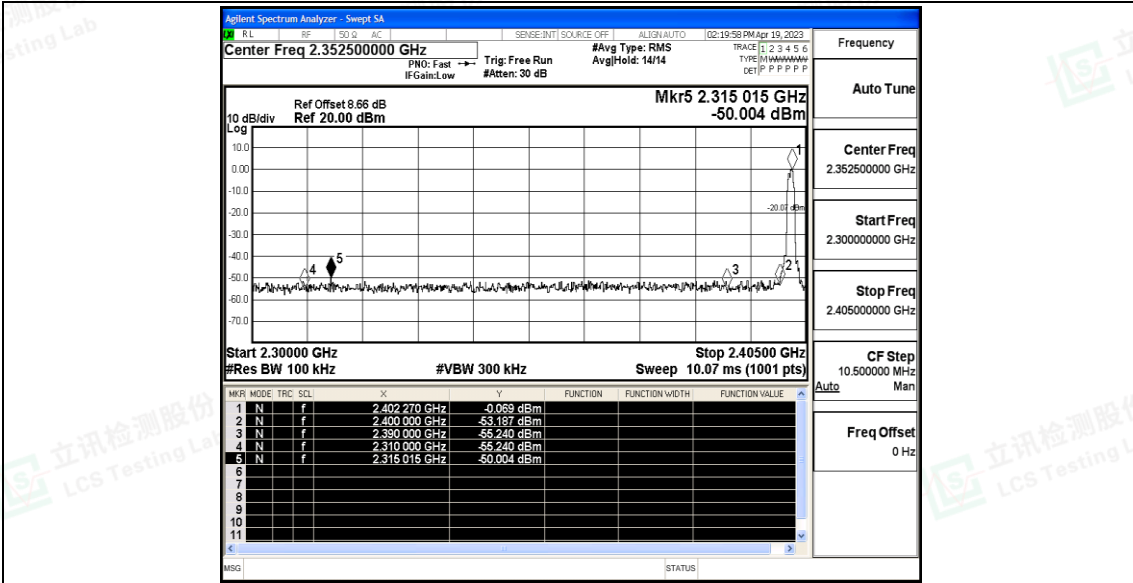


Shenzhen LCS Compliance Testing Laboratory Ltd.

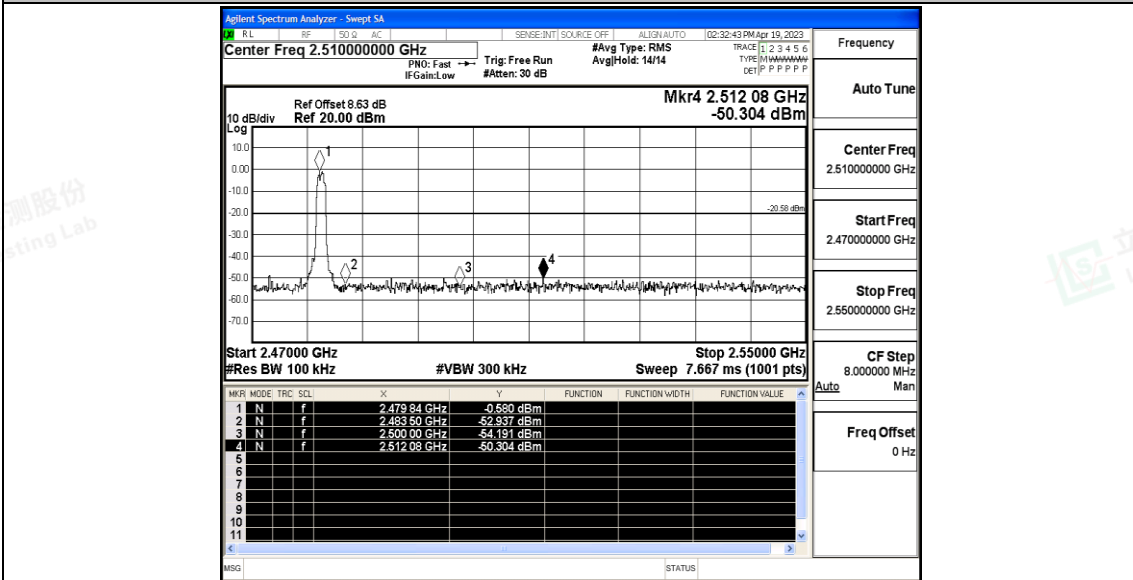
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

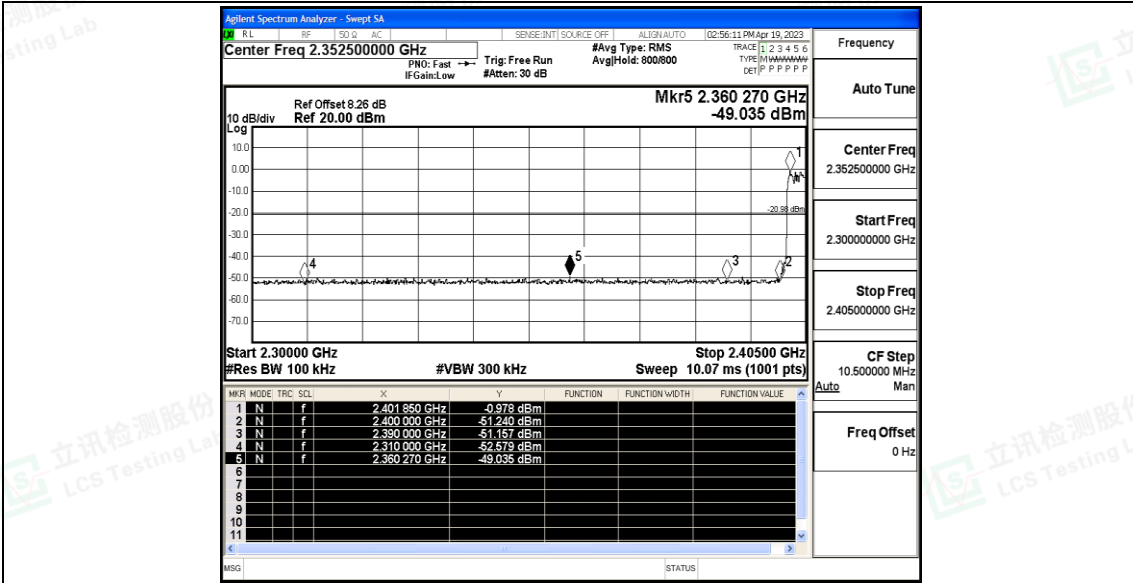


2DH5_Ant1_High_2480

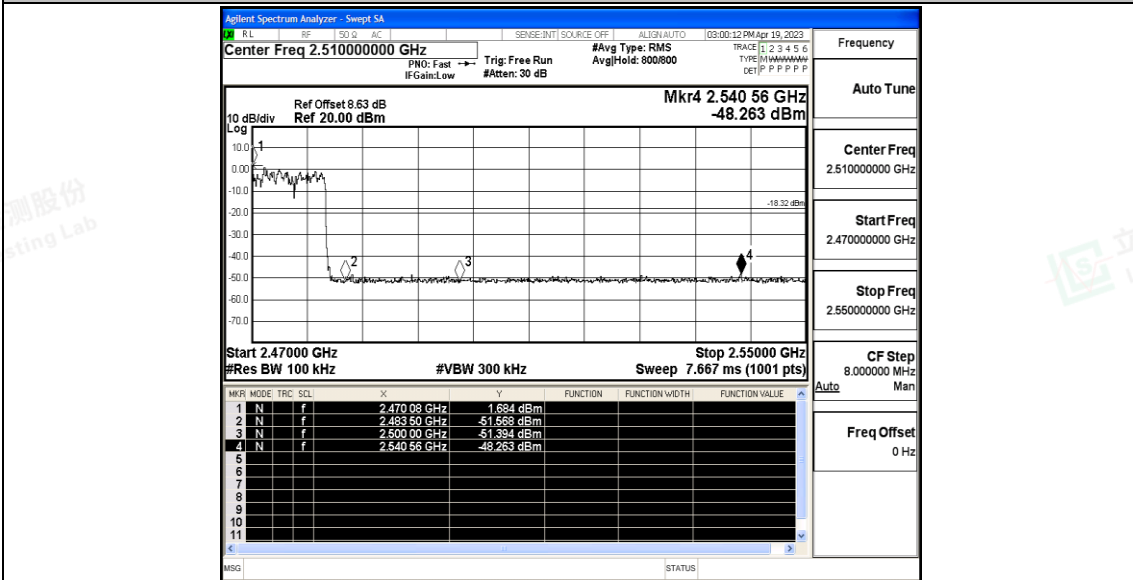


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

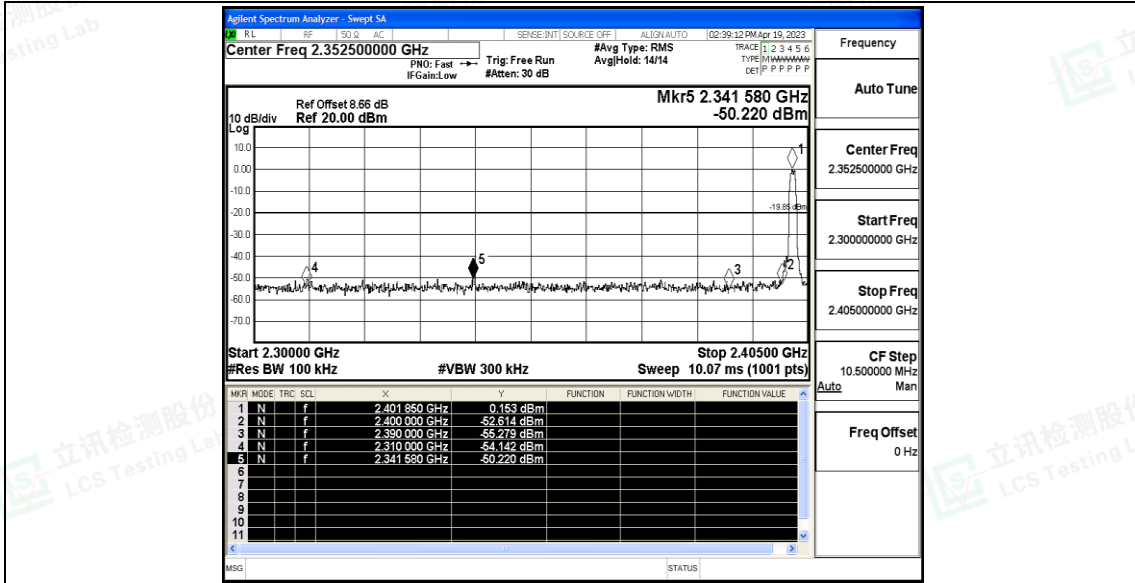


Shenzhen LCS Compliance Testing Laboratory Ltd.

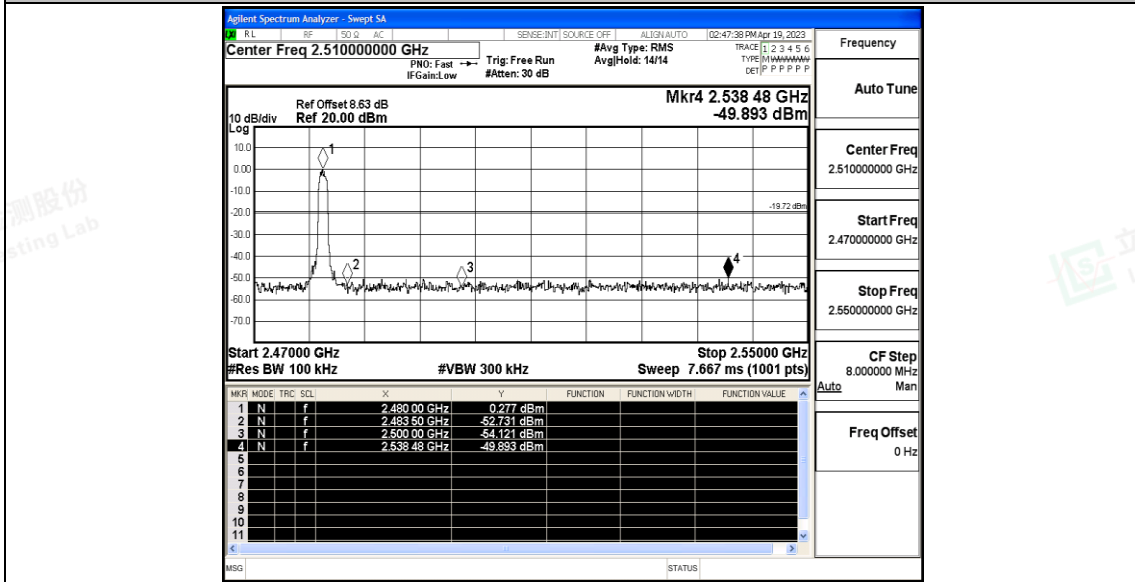
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

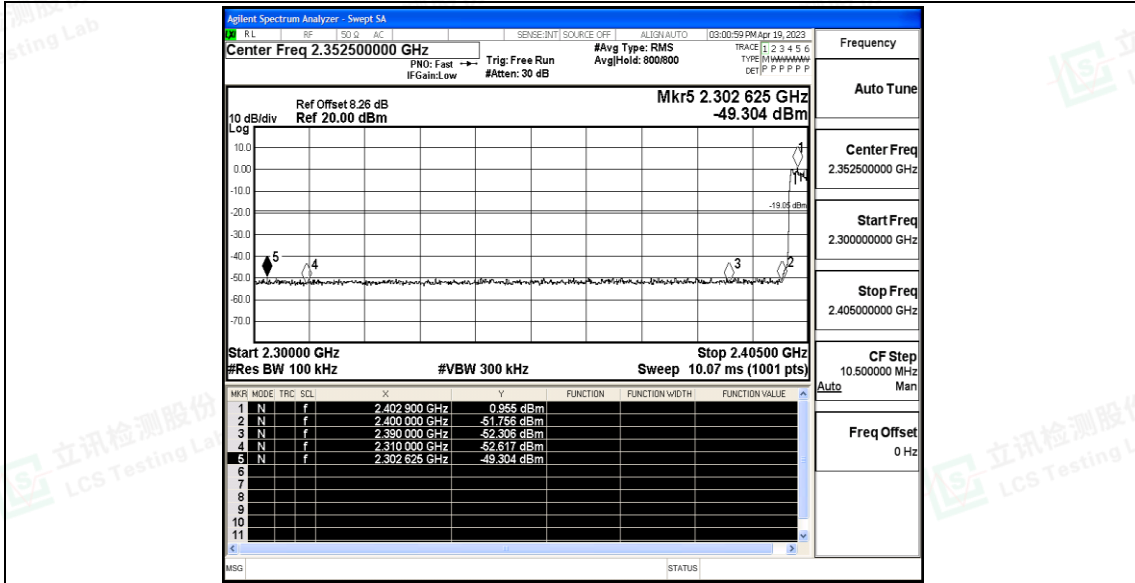


3DH5_Ant1_High_2480

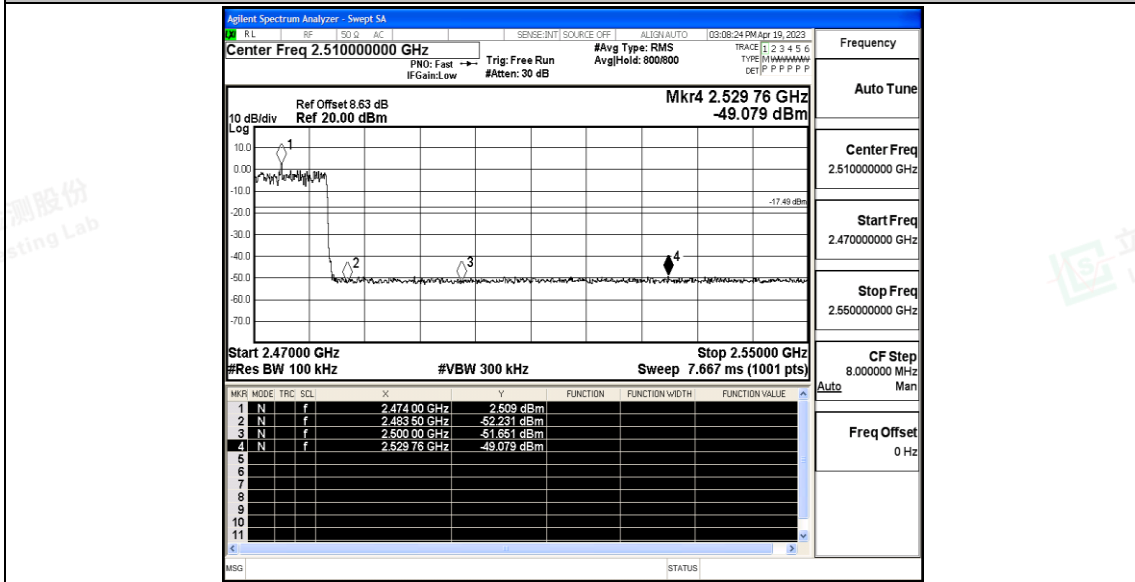


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480



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



A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-59.83	≤-18.21	PASS
			1000~26500	1.79	-39.4	≤-18.21	PASS
		2441	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-59.89	≤-18.75	PASS
			1000~26500	1.25	-41.3	≤-18.75	PASS
		2480	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-60.91	≤-19.22	PASS
			1000~26500	0.78	-44.63	≤-19.22	PASS
2DH5	Ant1	2402	Reference	0.73	0.73	---	PASS
			30~1000	0.73	-60.54	≤-19.27	PASS
			1000~26500	0.73	-42.23	≤-19.27	PASS
		2441	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-60.86	≤-19.93	PASS
			1000~26500	0.07	-42.42	≤-19.93	PASS
		2480	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-60.59	≤-20.2	PASS
			1000~26500	-0.20	-45.83	≤-20.2	PASS
3DH5	Ant1	2402	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-60.4	≤-19.57	PASS
			1000~26500	0.43	-40.16	≤-19.57	PASS
		2441	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-60.69	≤-20.29	PASS
			1000~26500	-0.29	-43	≤-20.29	PASS
		2480	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-60.17	≤-20.22	PASS
			1000~26500	-0.22	-46	≤-20.22	PASS

