



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Wireless earphone

Test Model: BHD-TW14

#### Environmental Conditions

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



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### A.1 20dB Emission Bandwidth

Left Ear:

#### Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.538	2402.489	---	---
		2441	1.038	2440.472	2441.510	---	---
		2480	0.963	2479.538	2480.501	---	---
2DH5	Ant1	2402	1.296	2401.358	2402.654	---	---
		2441	1.290	2440.361	2441.651	---	---
		2480	1.296	2479.358	2480.654	---	---
3DH5	Ant1	2402	1.311	2401.340	2402.651	---	---
		2441	1.299	2440.343	2441.642	---	---
		2480	1.308	2479.340	2480.648	---	---

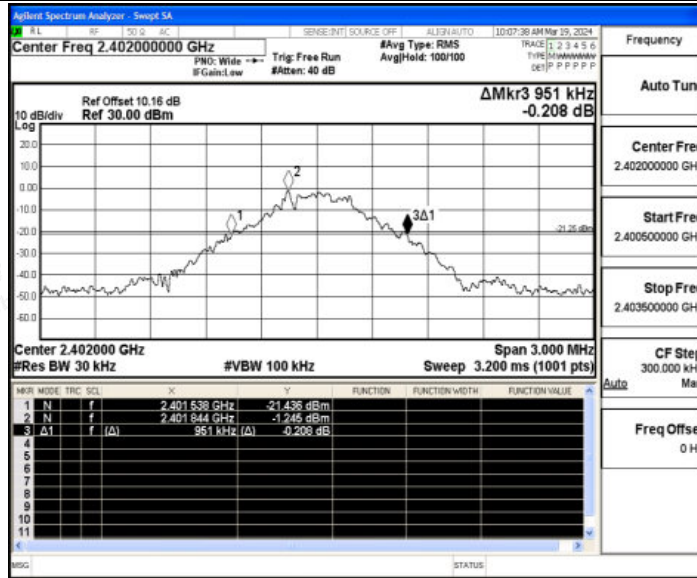


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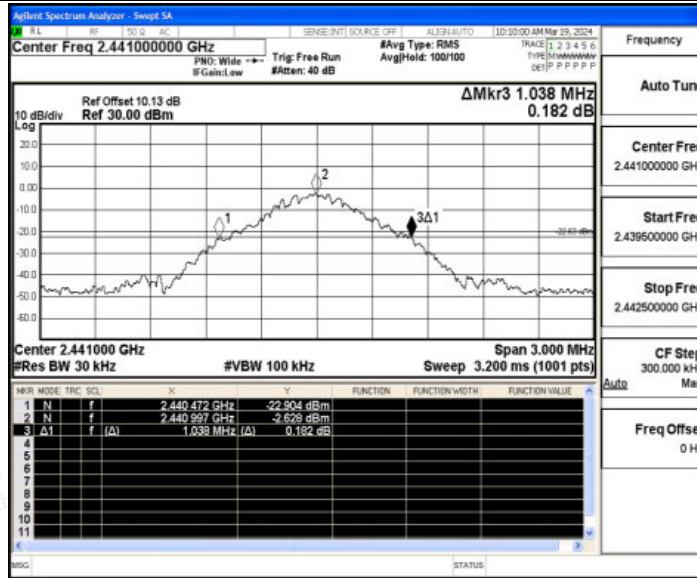


Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

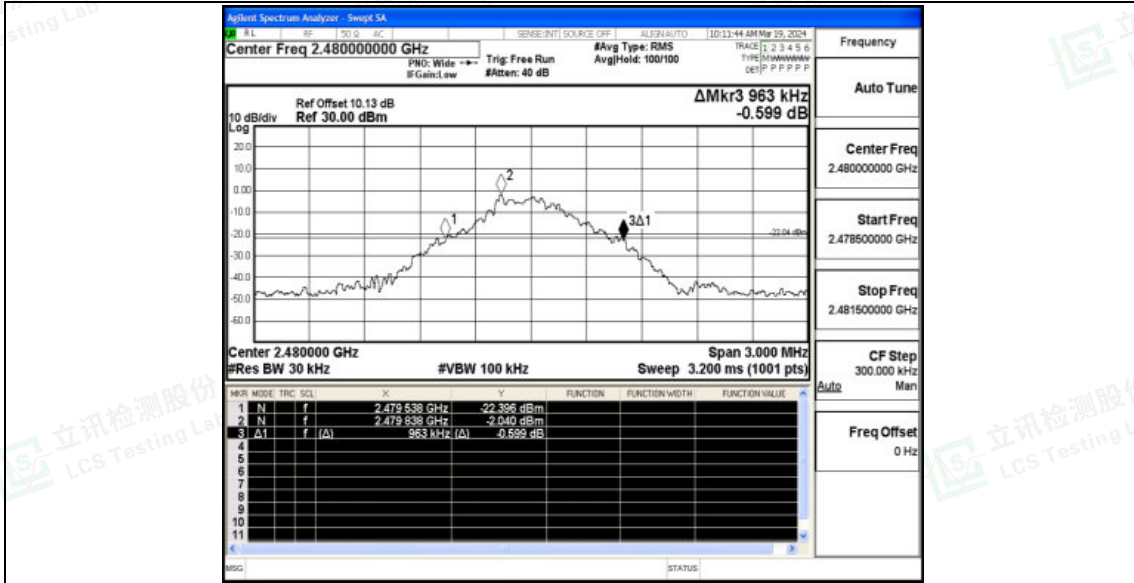


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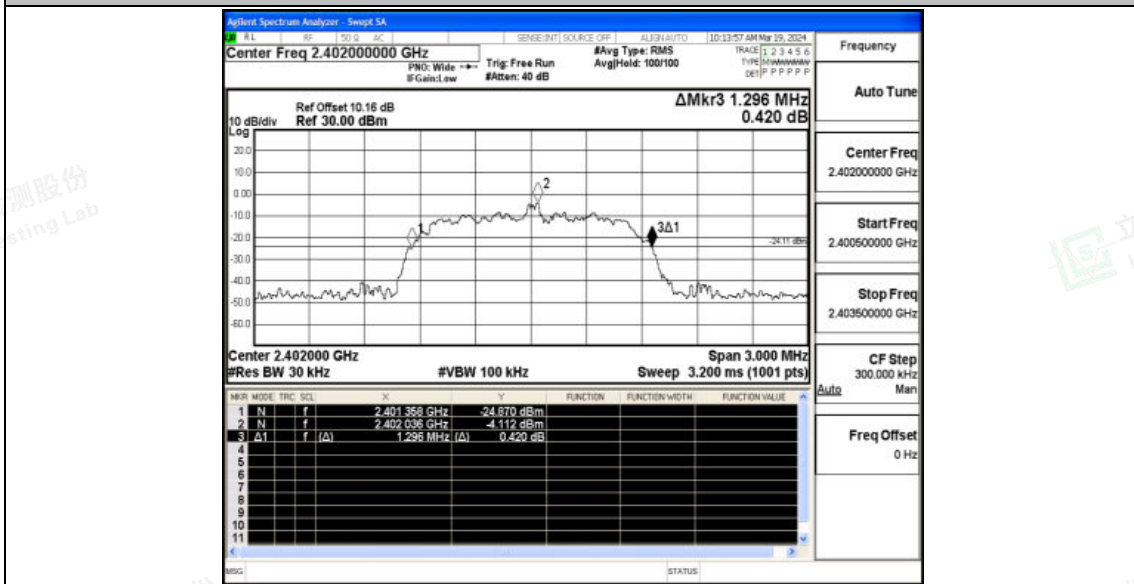
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

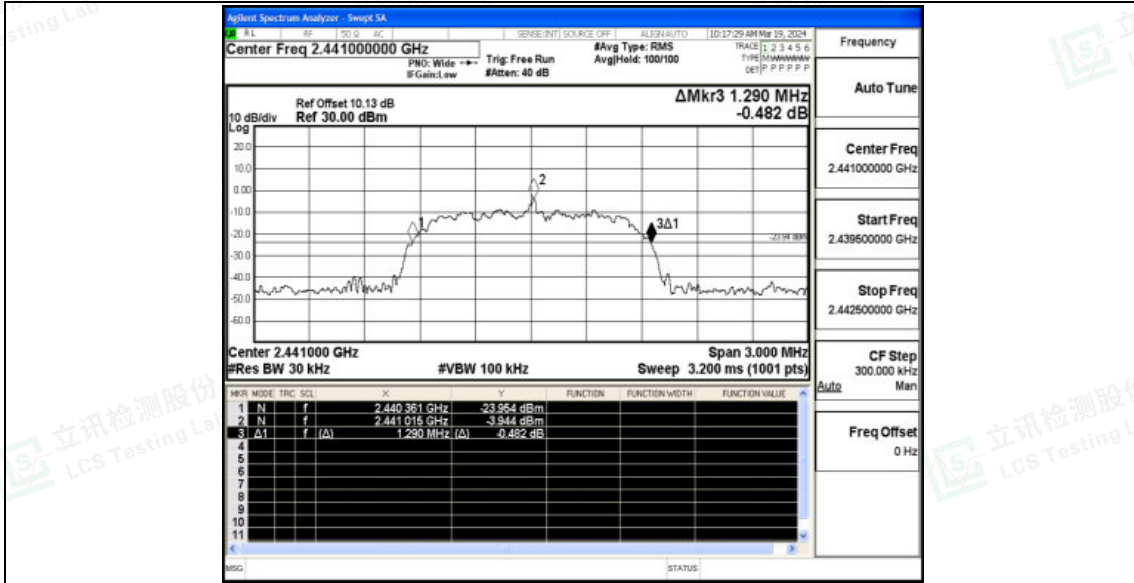


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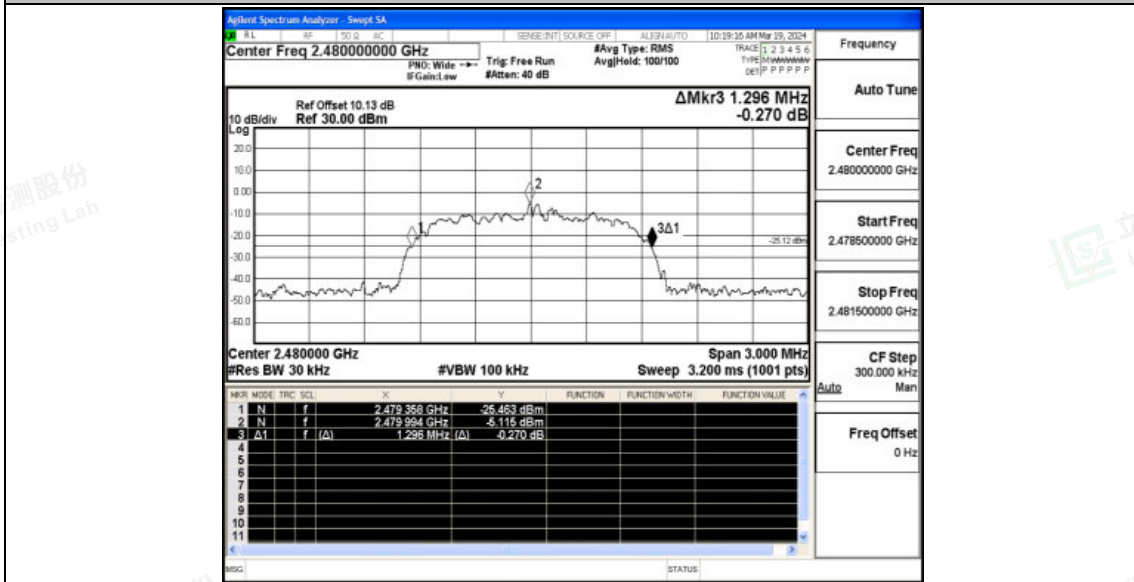
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

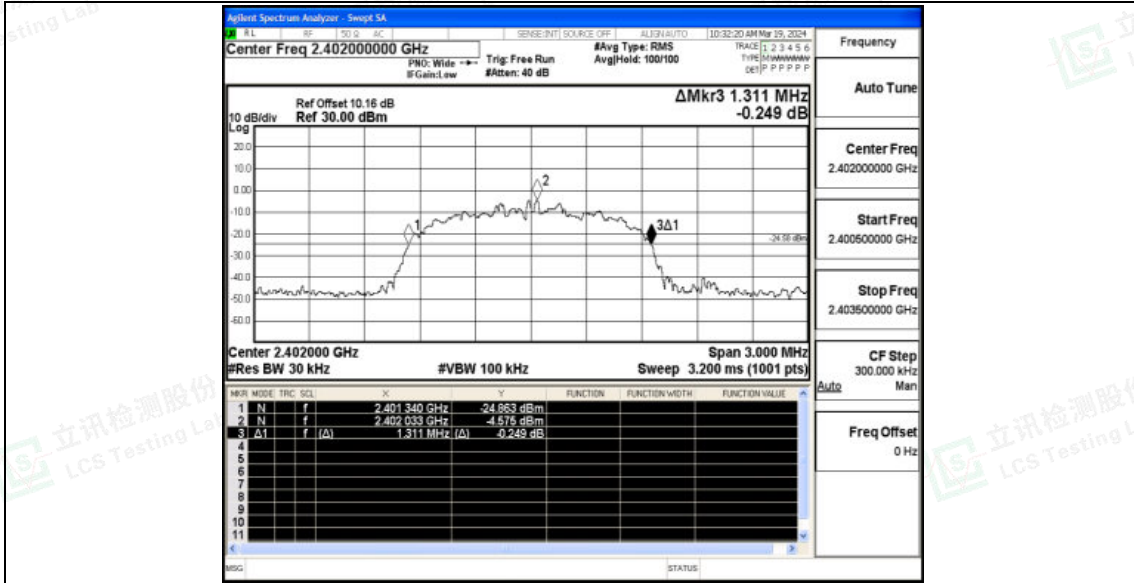


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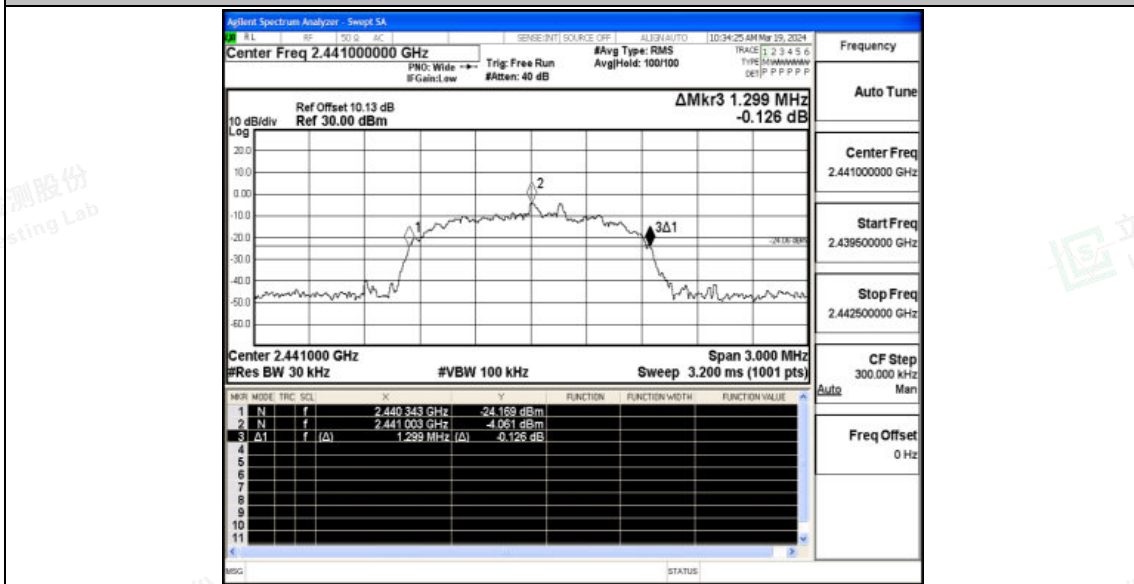
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

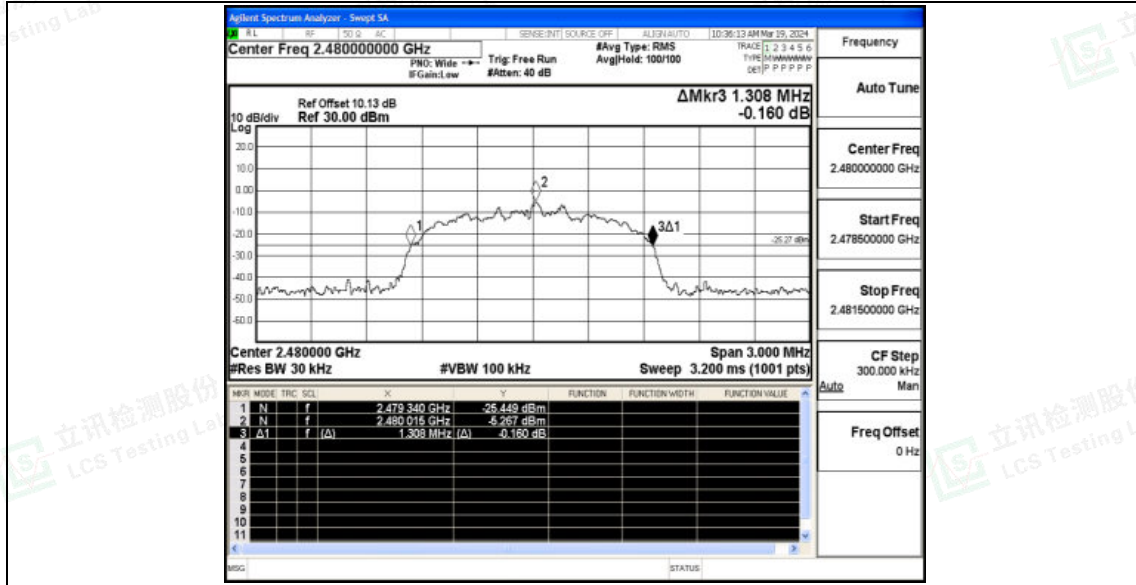


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Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.535	2402.495	---	---
		2441	0.957	2440.529	2441.486	---	---
		2480	0.975	2479.529	2480.504	---	---
2DH5	Ant1	2402	1.353	2401.316	2402.669	---	---
		2441	1.284	2440.358	2441.642	---	---
		2480	1.293	2479.355	2480.648	---	---
3DH5	Ant1	2402	1.308	2401.340	2402.648	---	---
		2441	1.296	2440.346	2441.642	---	---
		2480	1.323	2479.334	2480.657	---	---



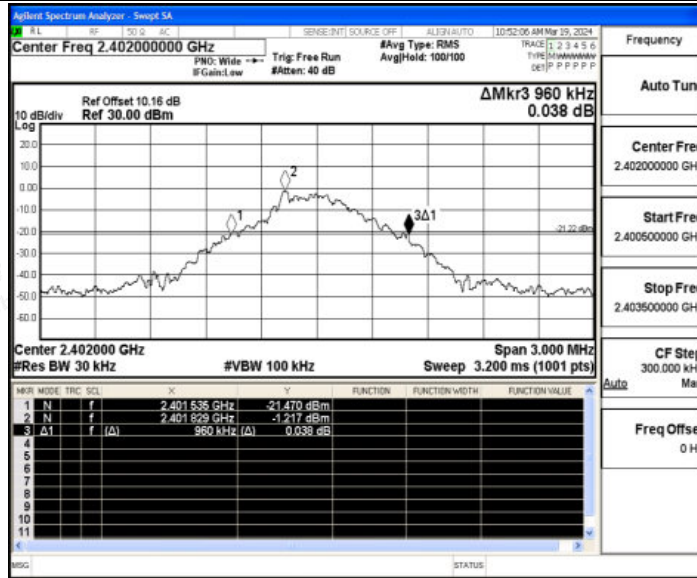
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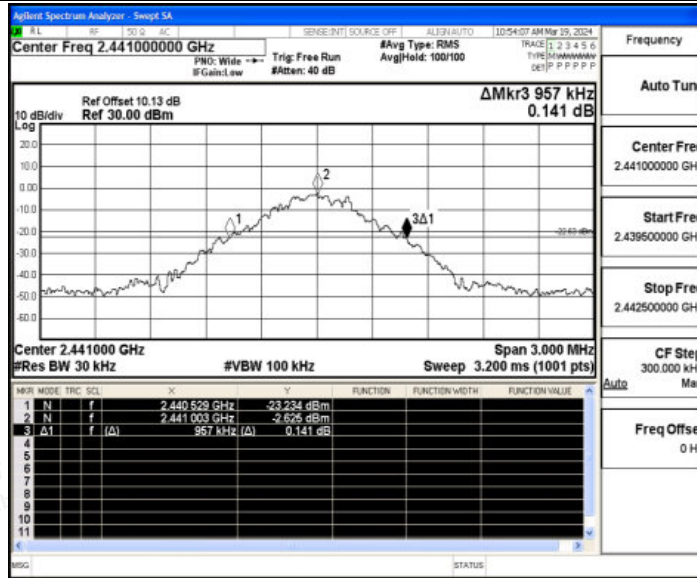


### Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

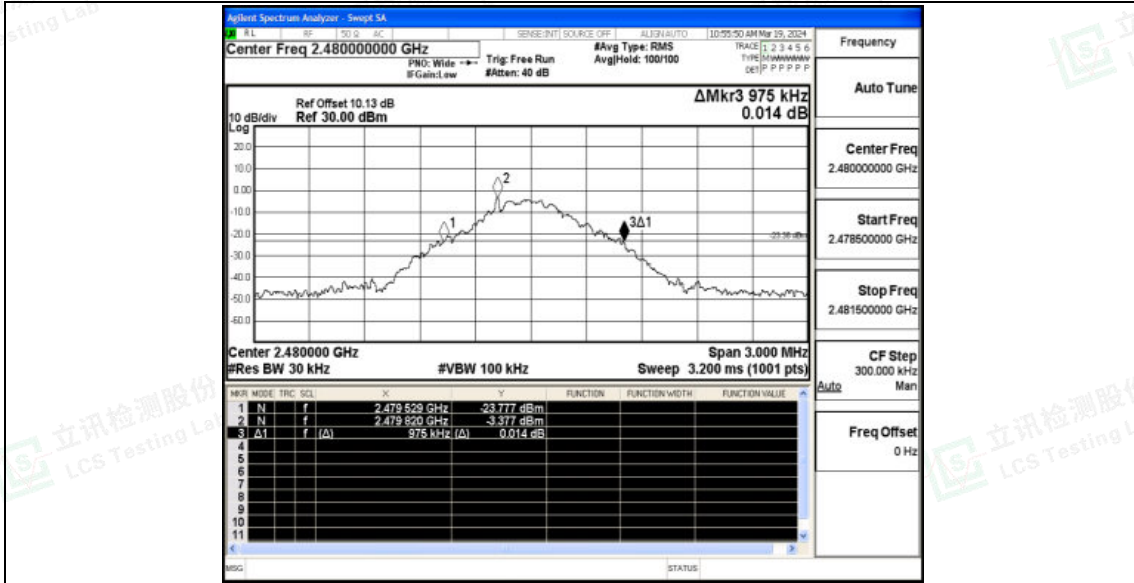


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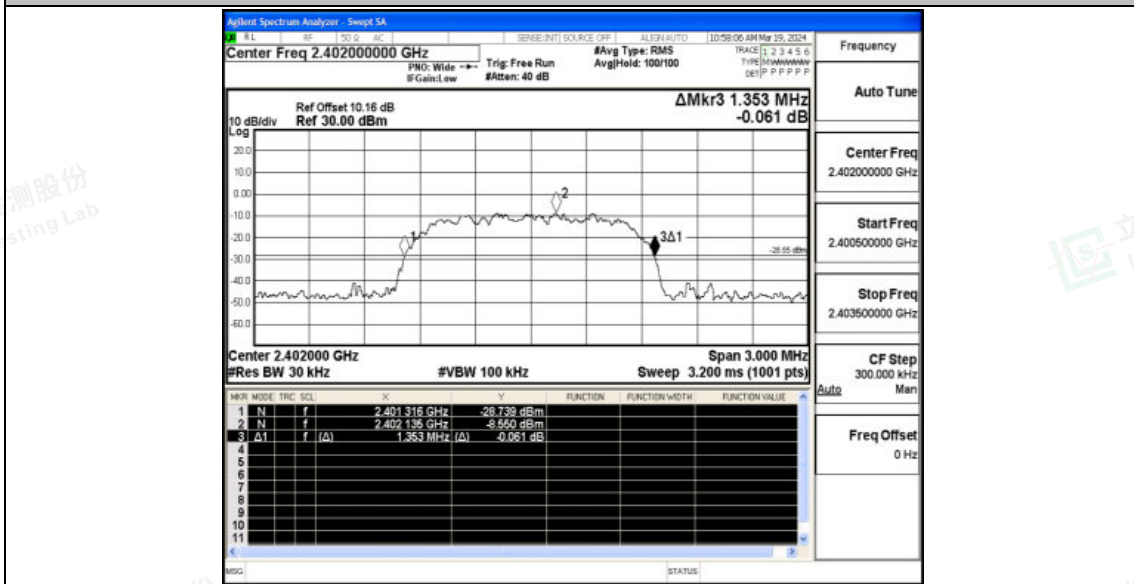
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

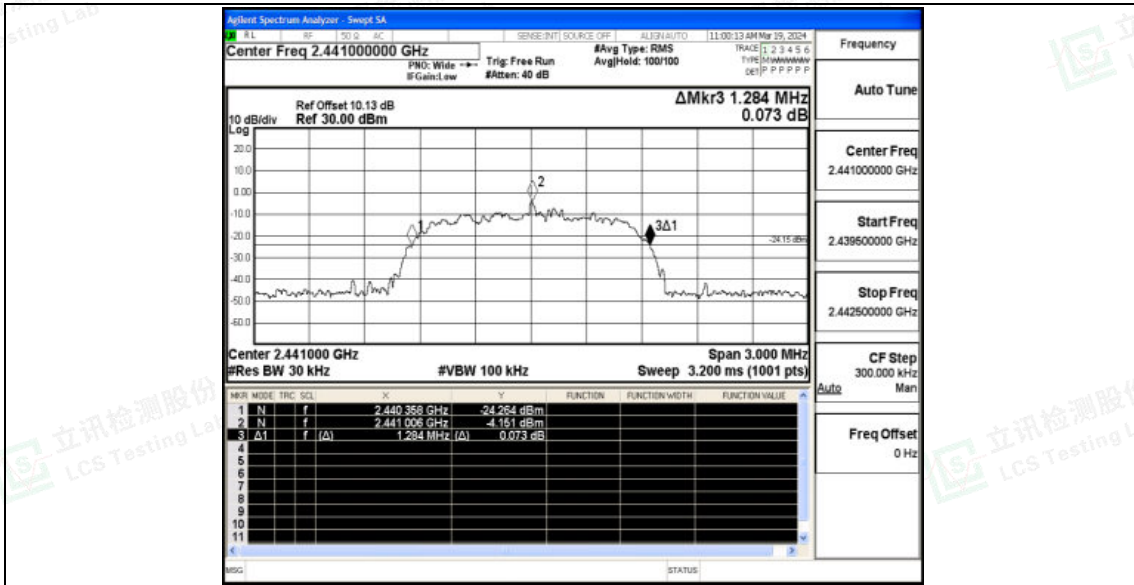


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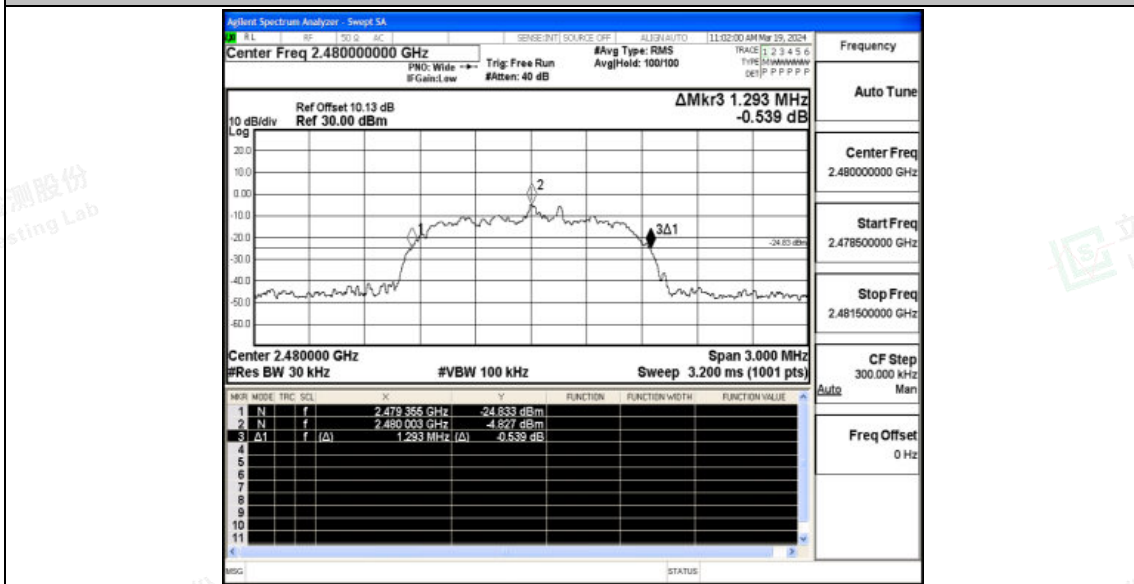
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

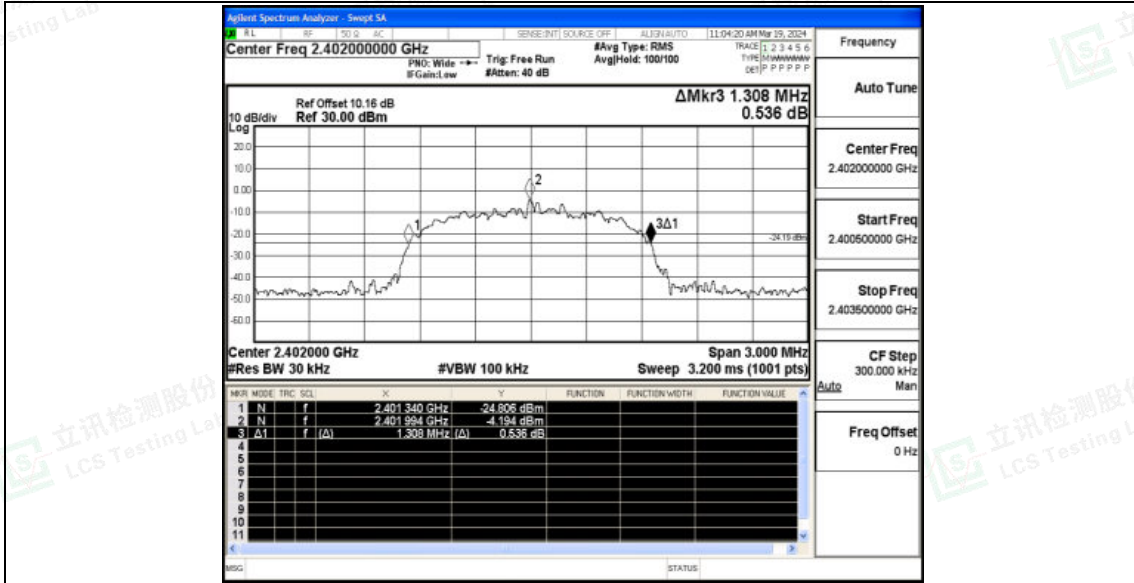


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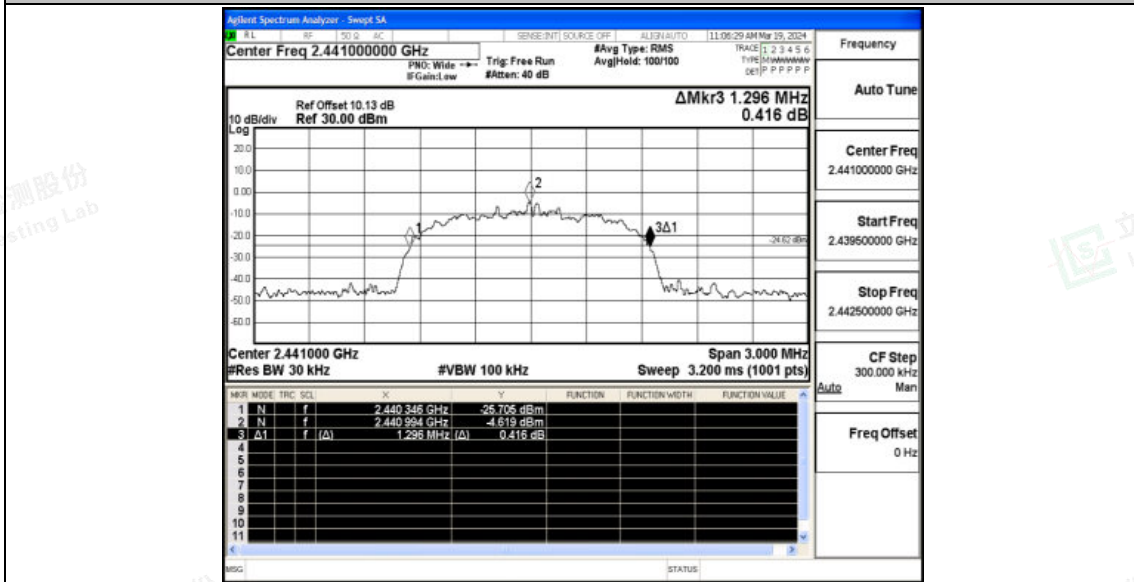
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

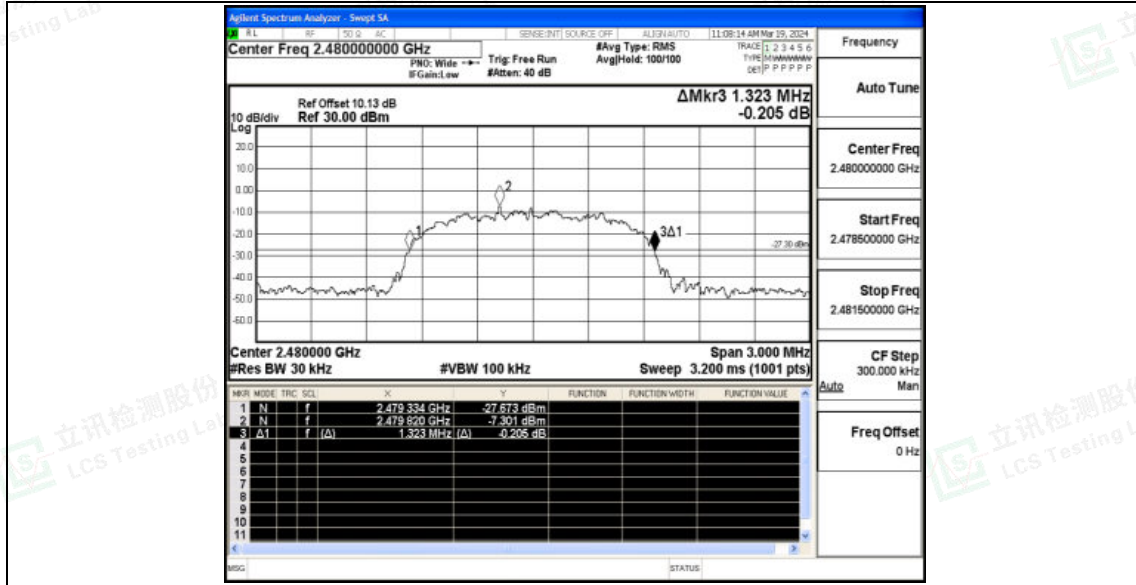


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## A.2 Maximum conducted output power

Left Ear:

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.83	≤20.97	PASS
		2441	0.63	≤20.97	PASS
		2480	-0.36	≤20.97	PASS
2DH5	Ant1	2402	0.61	≤20.97	PASS
		2441	0.37	≤20.97	PASS
		2480	-0.07	≤20.97	PASS
3DH5	Ant1	2402	0.85	≤20.97	PASS
		2441	0.66	≤20.97	PASS
		2480	-0.09	≤20.97	PASS



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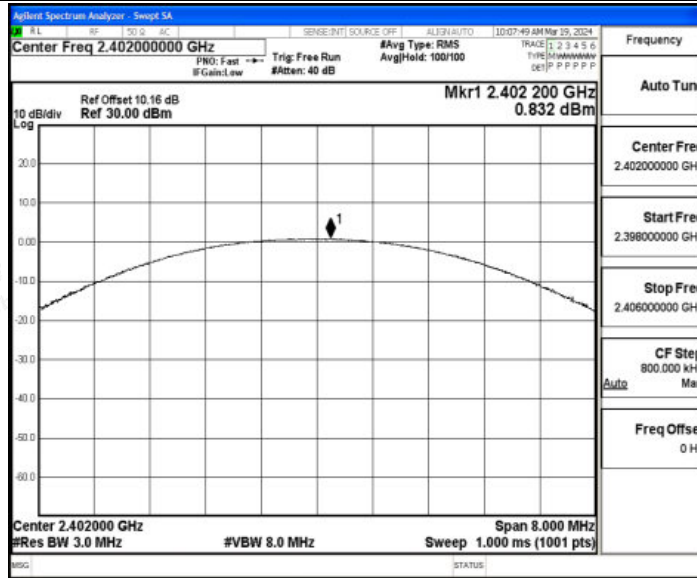
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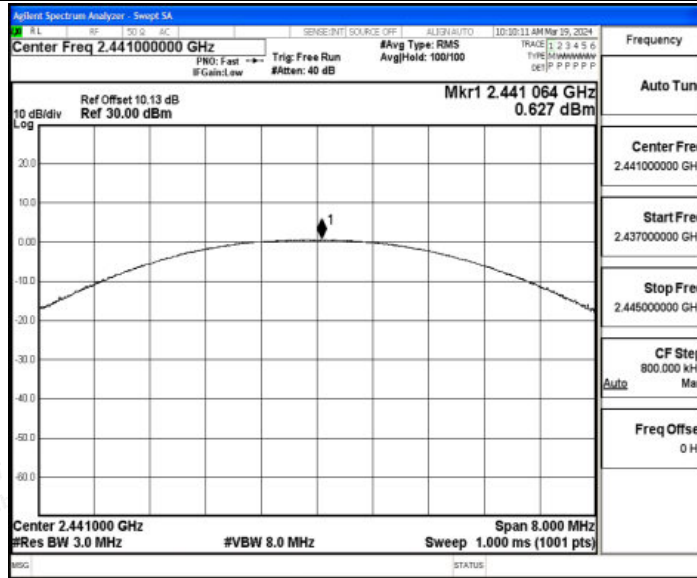


Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

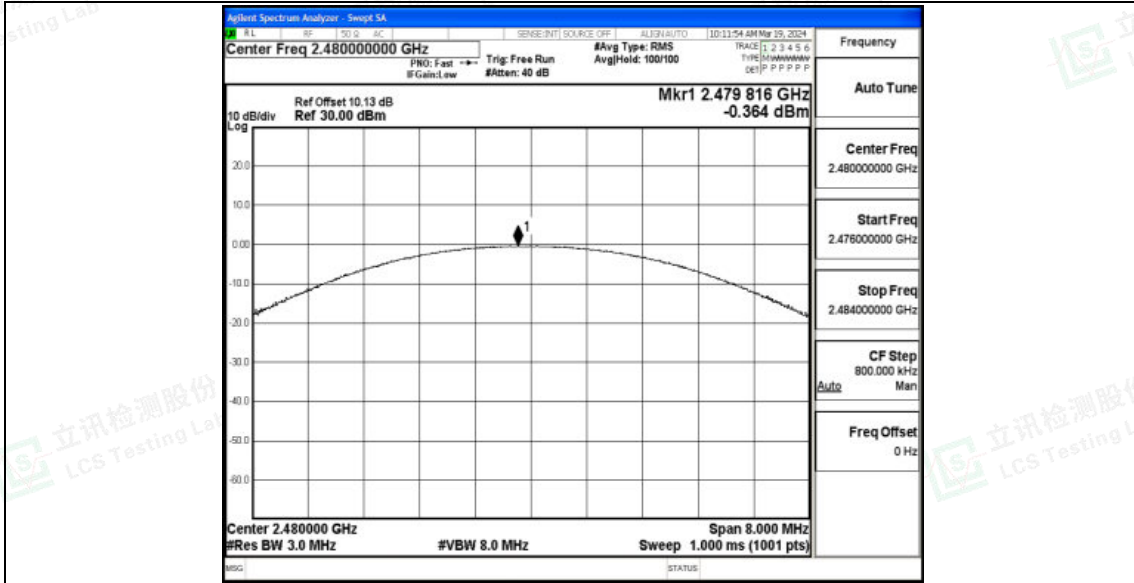


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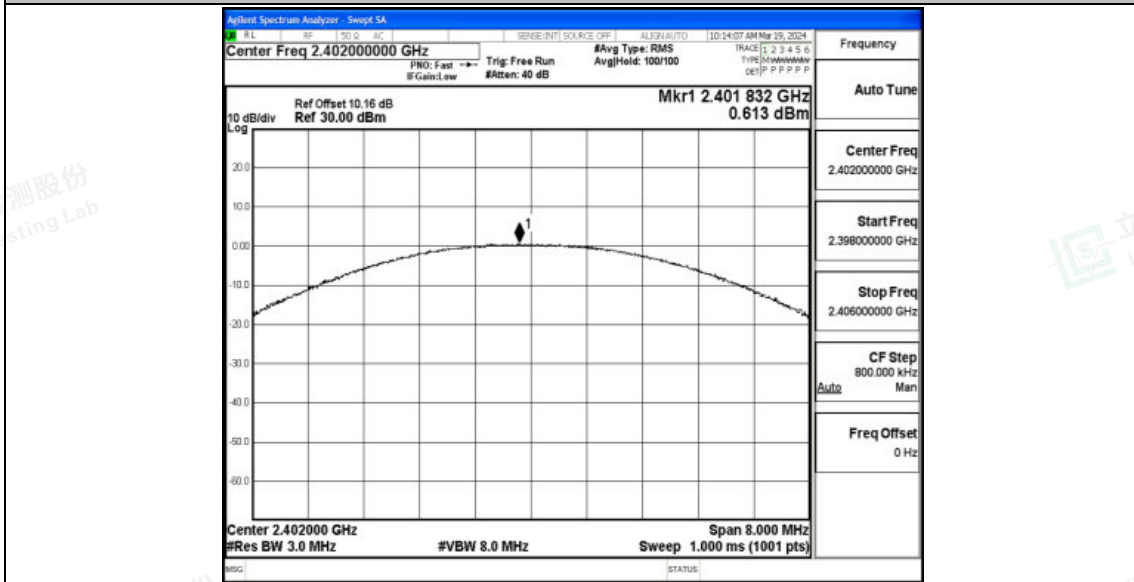
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



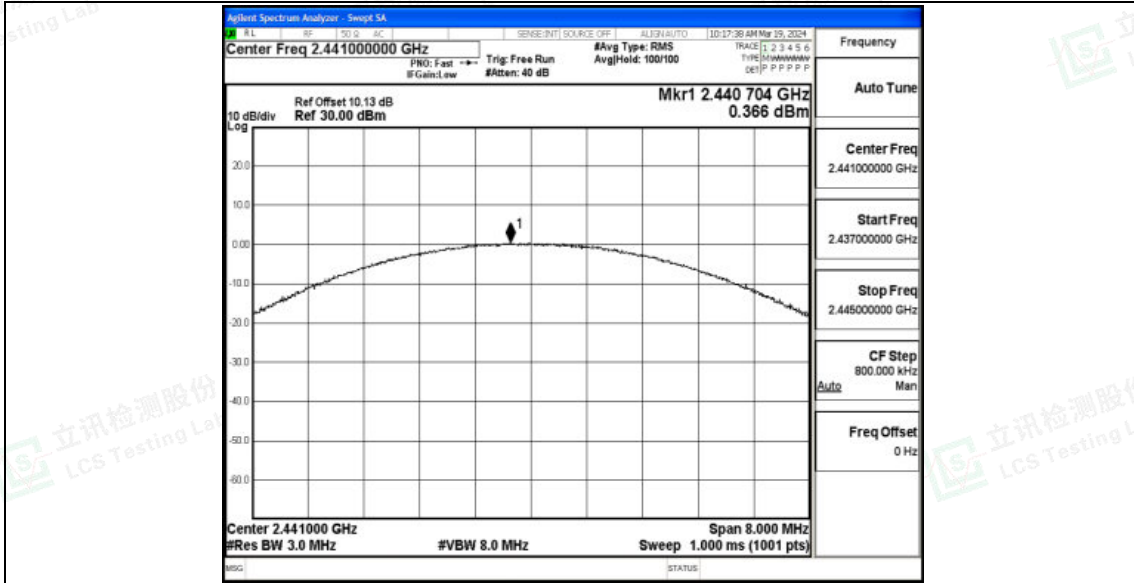
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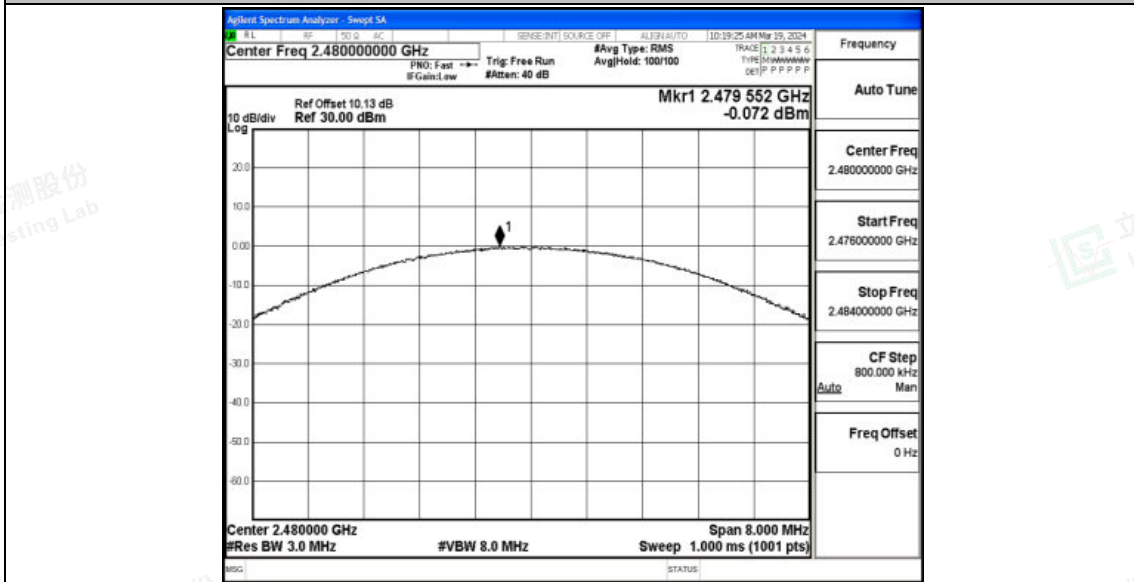
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

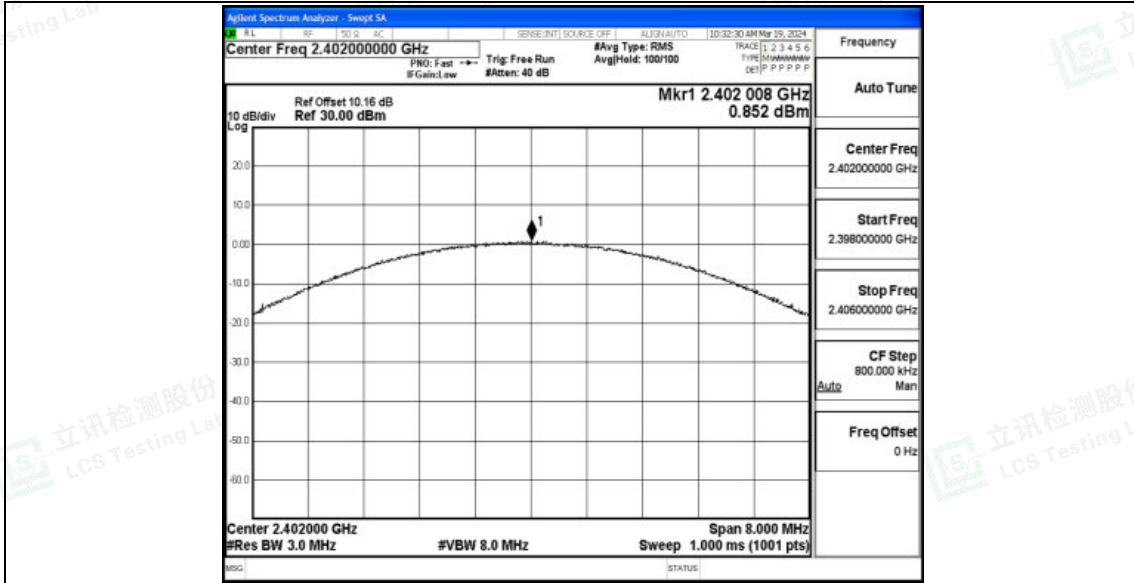


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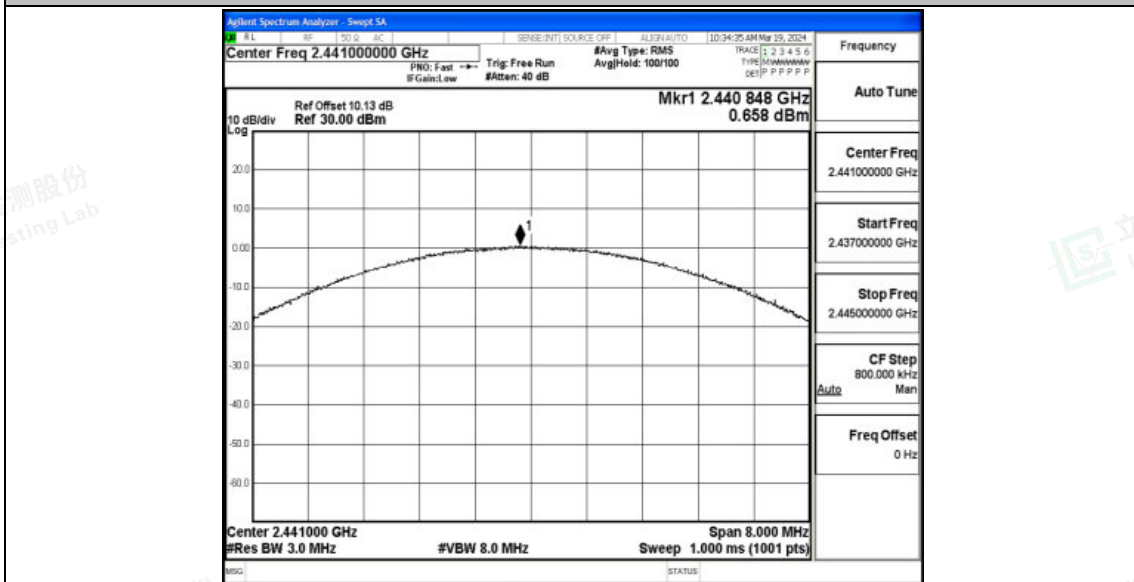
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

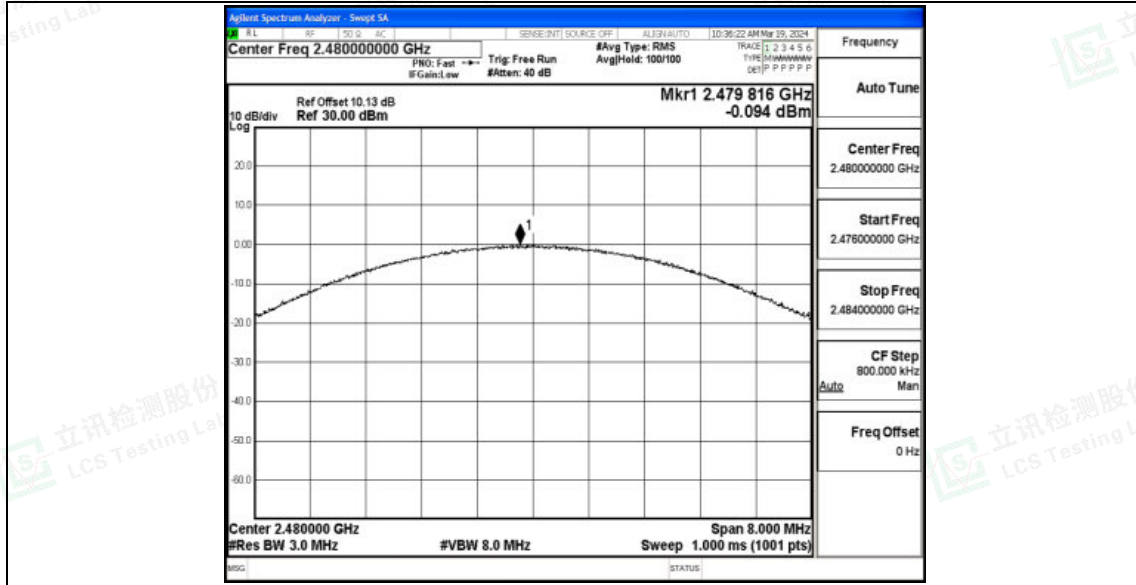


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Right Ear:

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.35	≤20.97	PASS
		2441	0.20	≤20.97	PASS
		2480	-0.88	≤20.97	PASS
2DH5	Ant1	2402	0.46	≤20.97	PASS
		2441	0.23	≤20.97	PASS
		2480	-0.50	≤20.97	PASS
3DH5	Ant1	2402	0.73	≤20.97	PASS
		2441	0.56	≤20.97	PASS
		2480	-0.08	≤20.97	PASS



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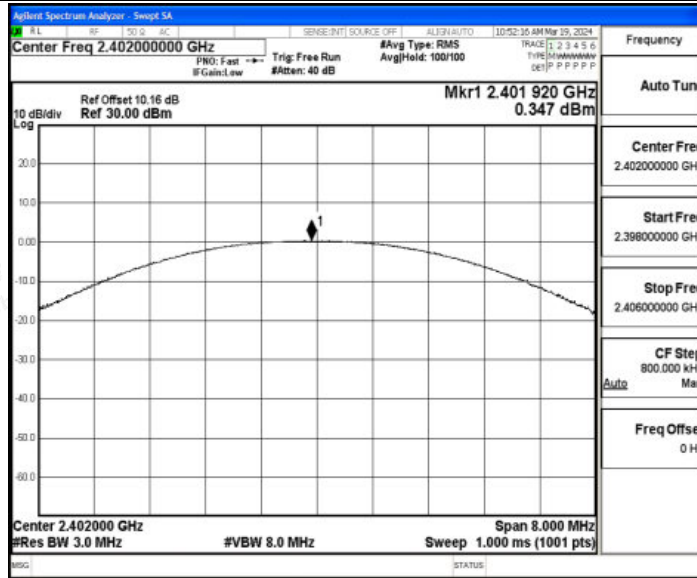
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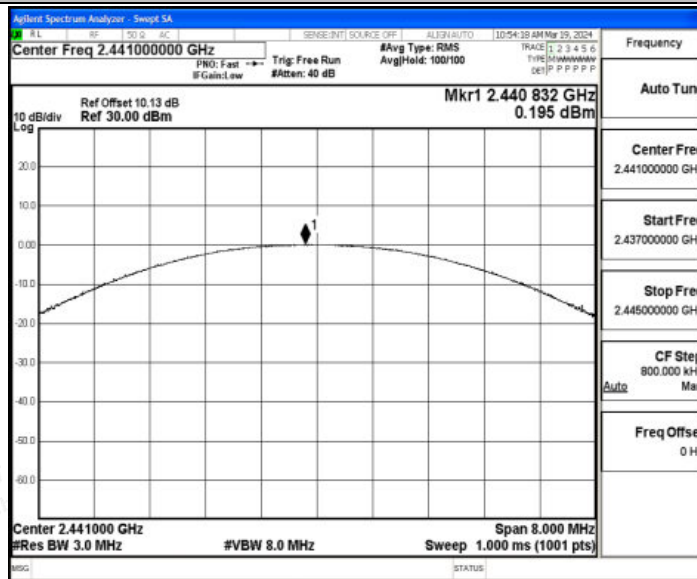


### Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

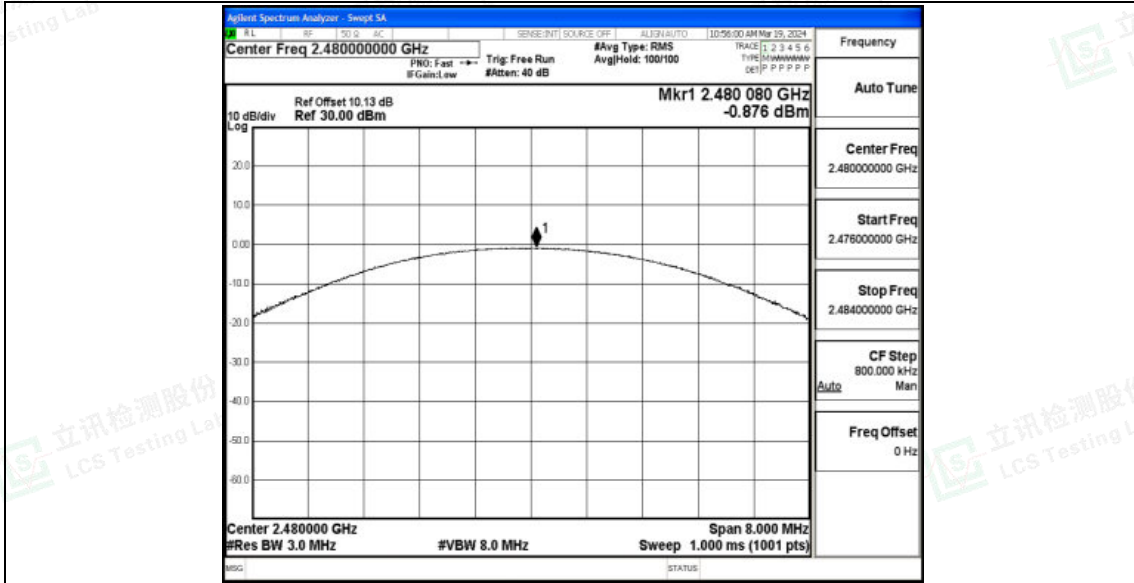


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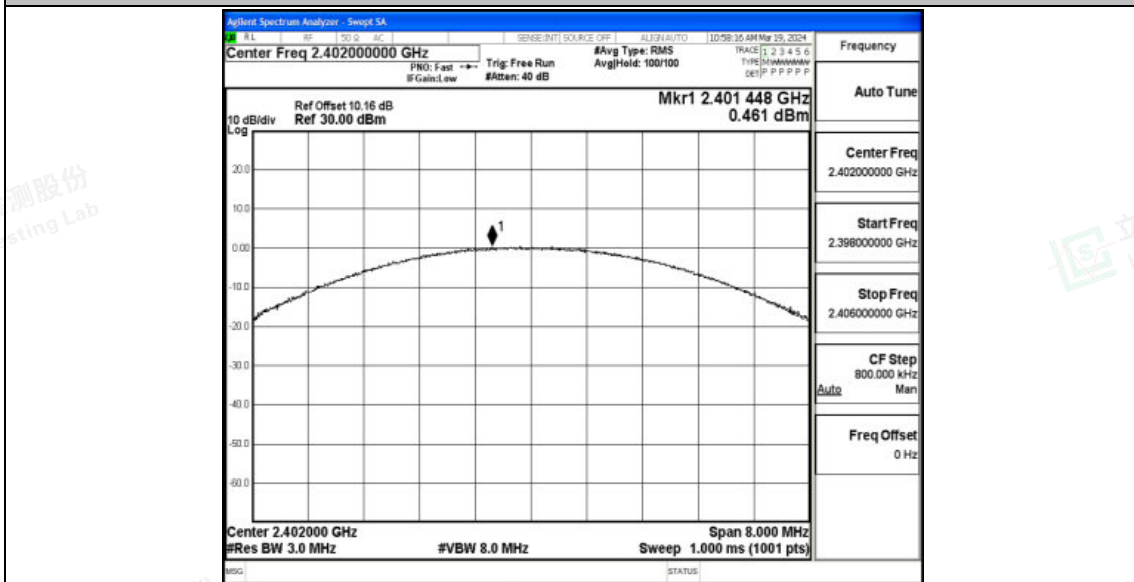
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

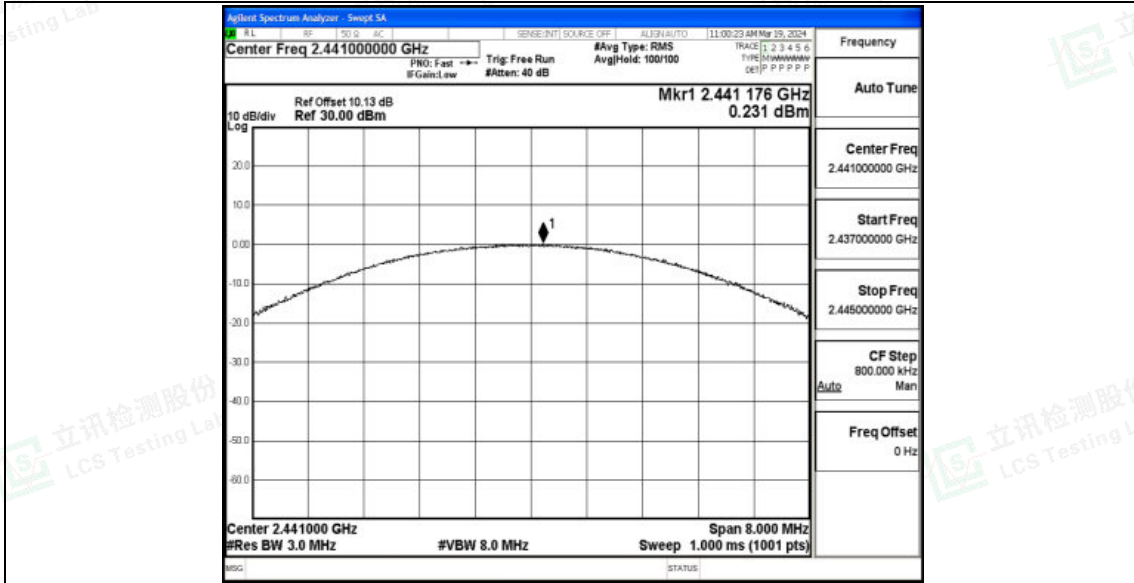


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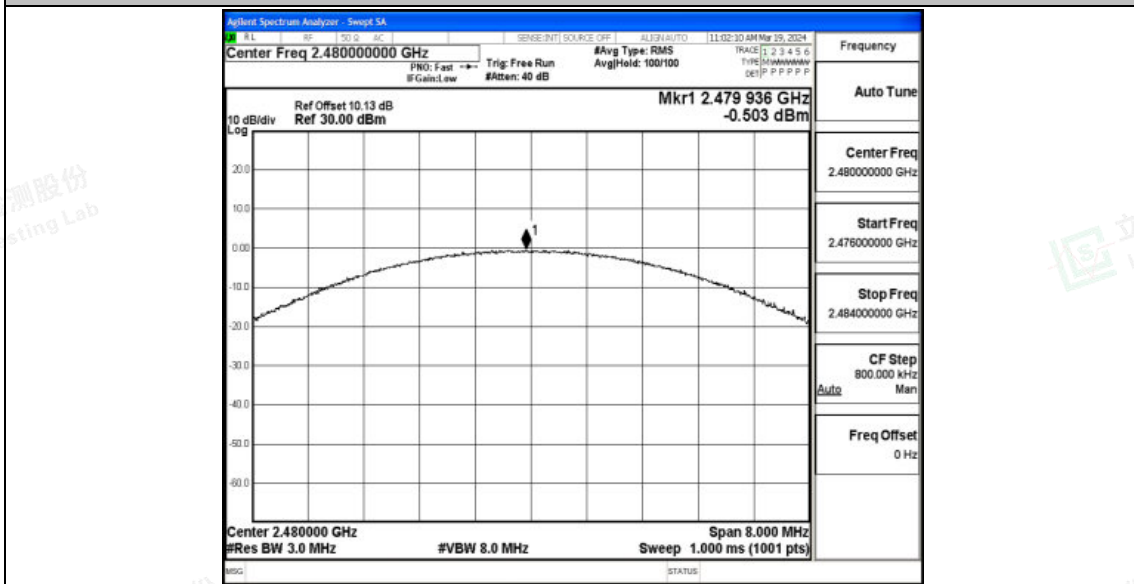
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

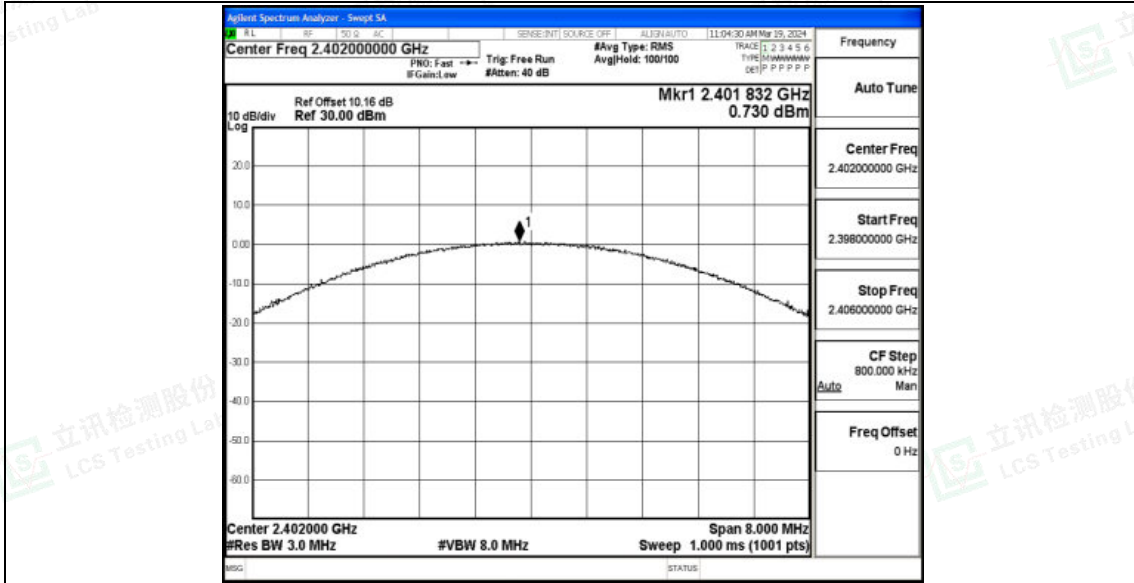


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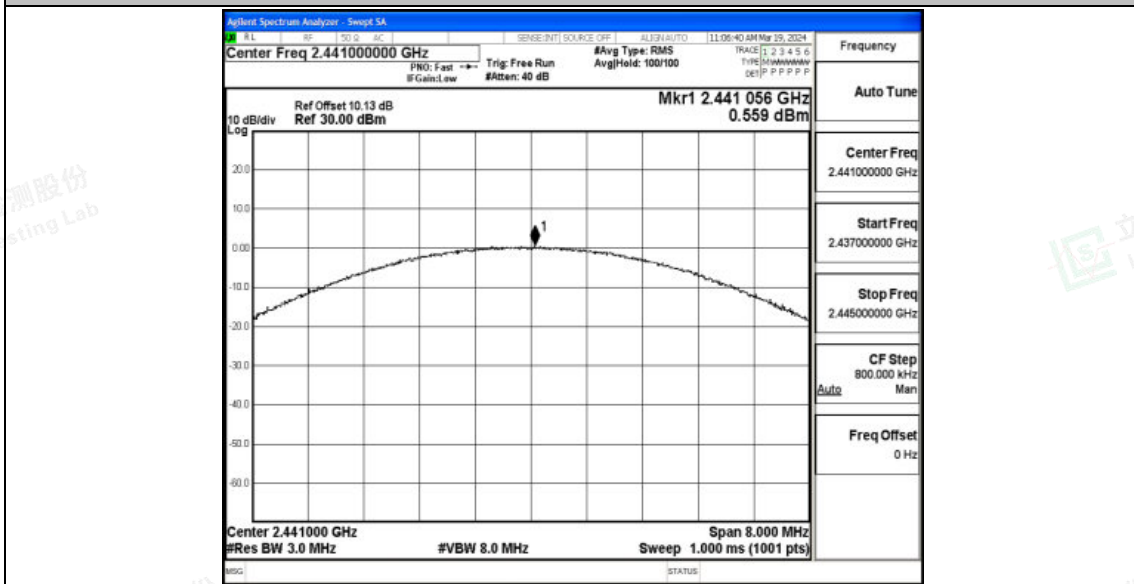
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



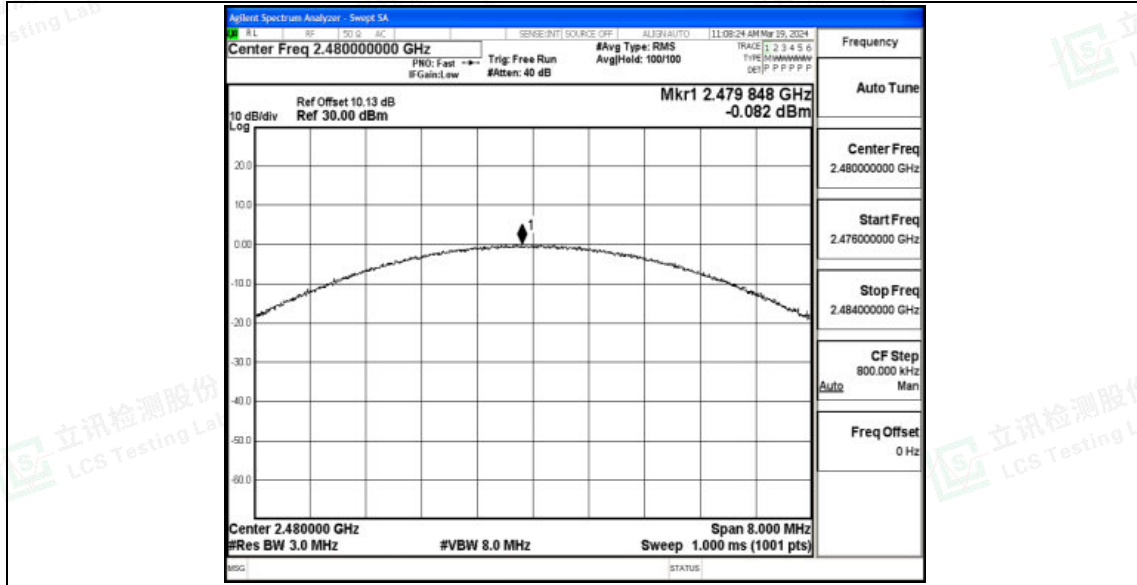
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### A.3 Carrier frequency separation

Left Ear:

#### Test Result

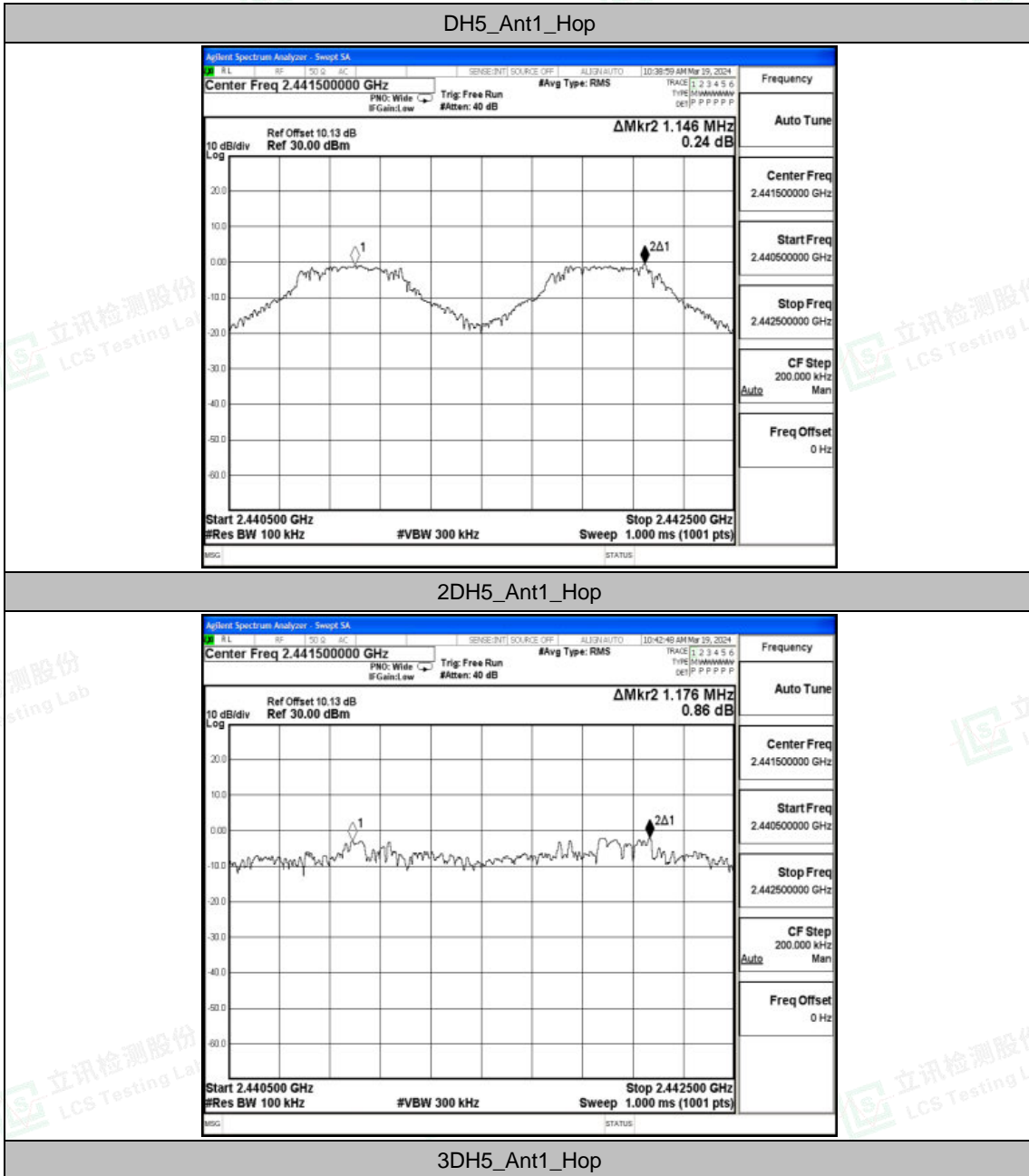
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.146	≥0.692	PASS
2DH5	Ant1	Hop	1.176	≥0.864	PASS
3DH5	Ant1	Hop	0.948	≥0.874	PASS



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Test Graphs

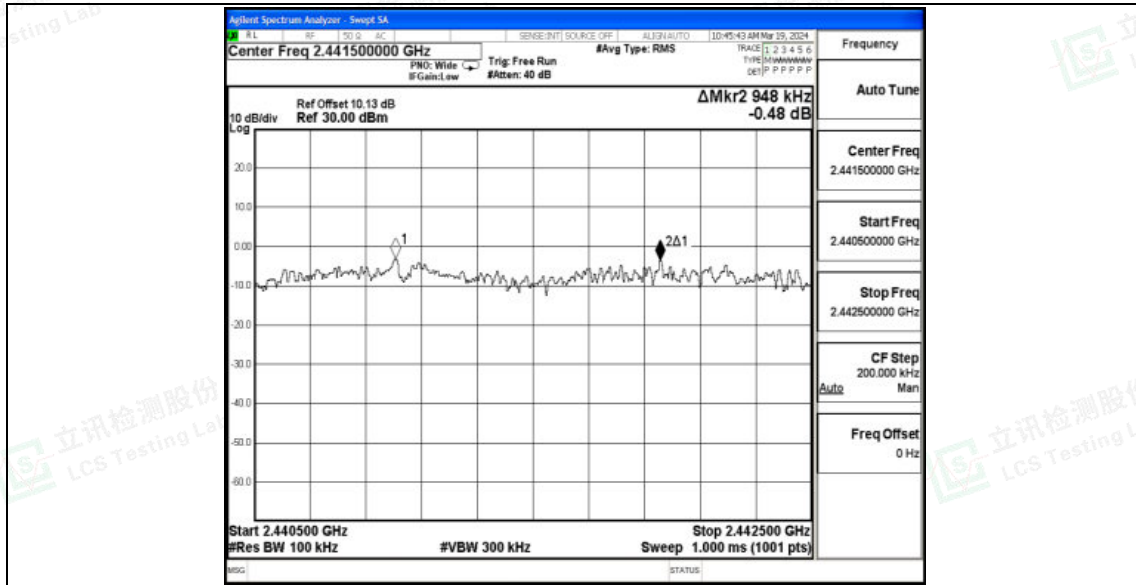


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Right Ear:

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.836	≥0.650	PASS
2DH5	Ant1	Hop	1.292	≥0.902	PASS
3DH5	Ant1	Hop	1.19	≥0.882	PASS



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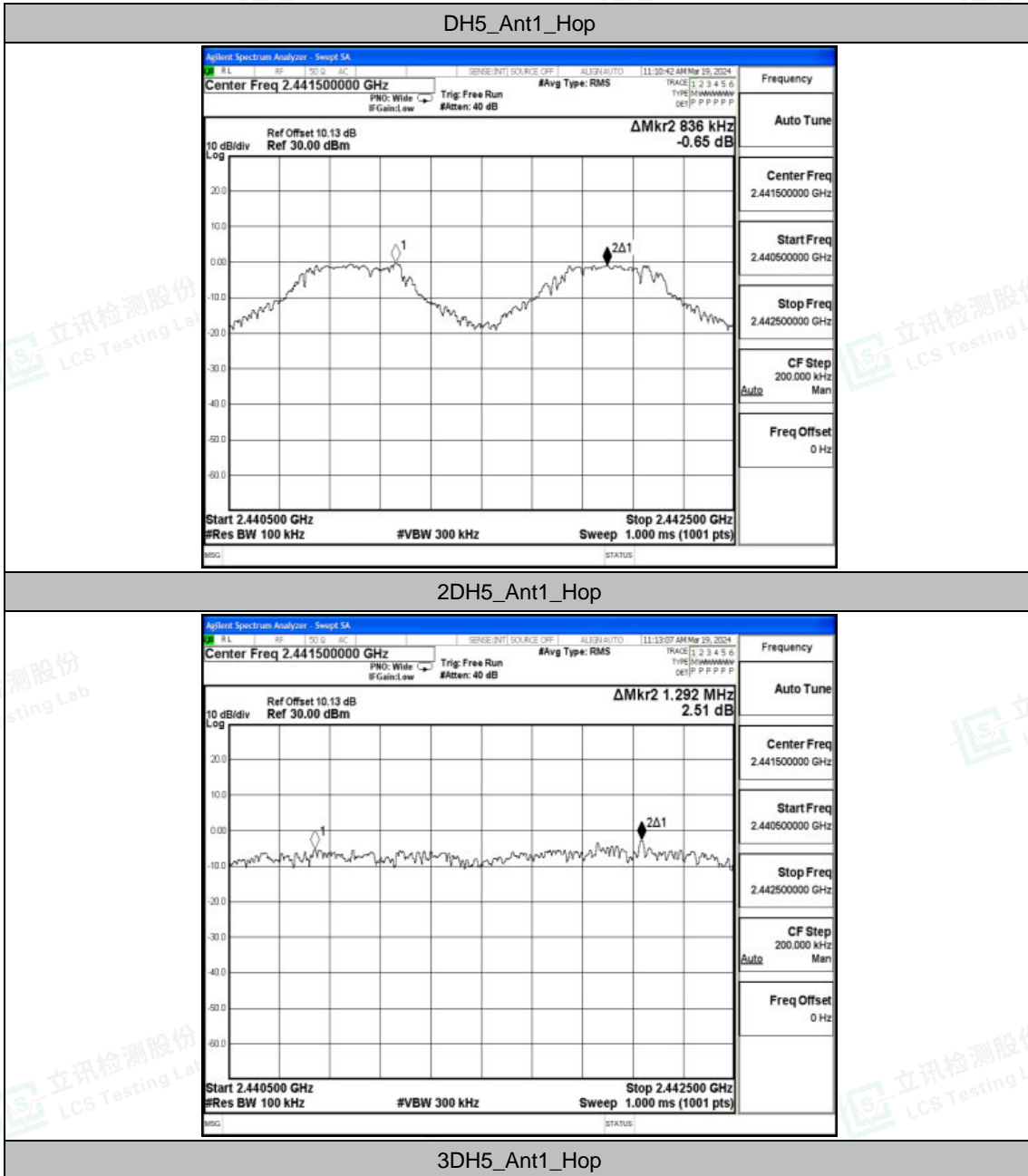
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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### Test Graphs

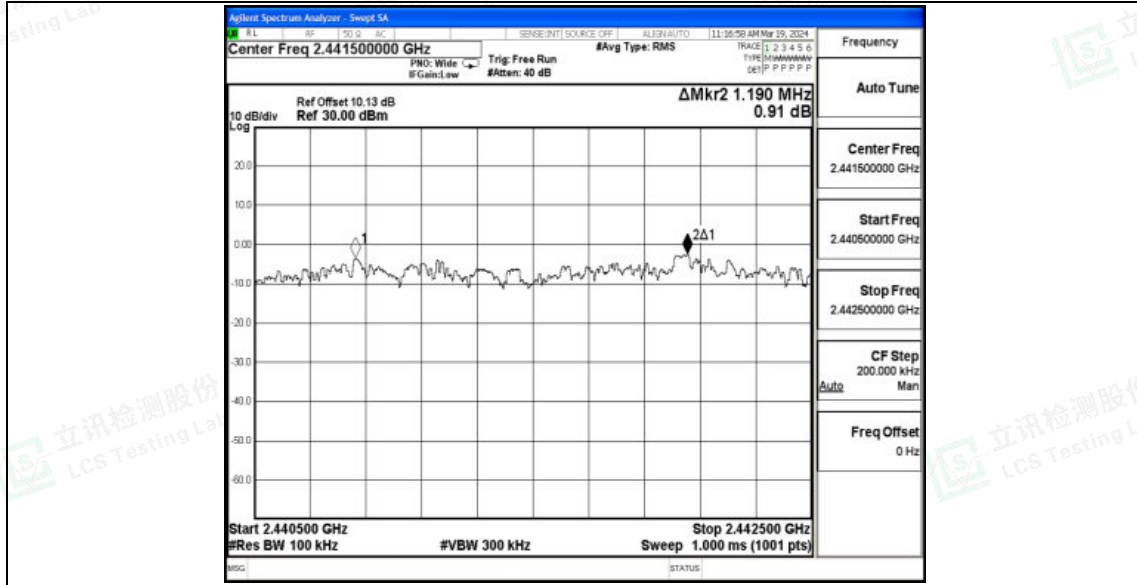


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### A.4 Time of occupancy

Left Ear:

#### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS



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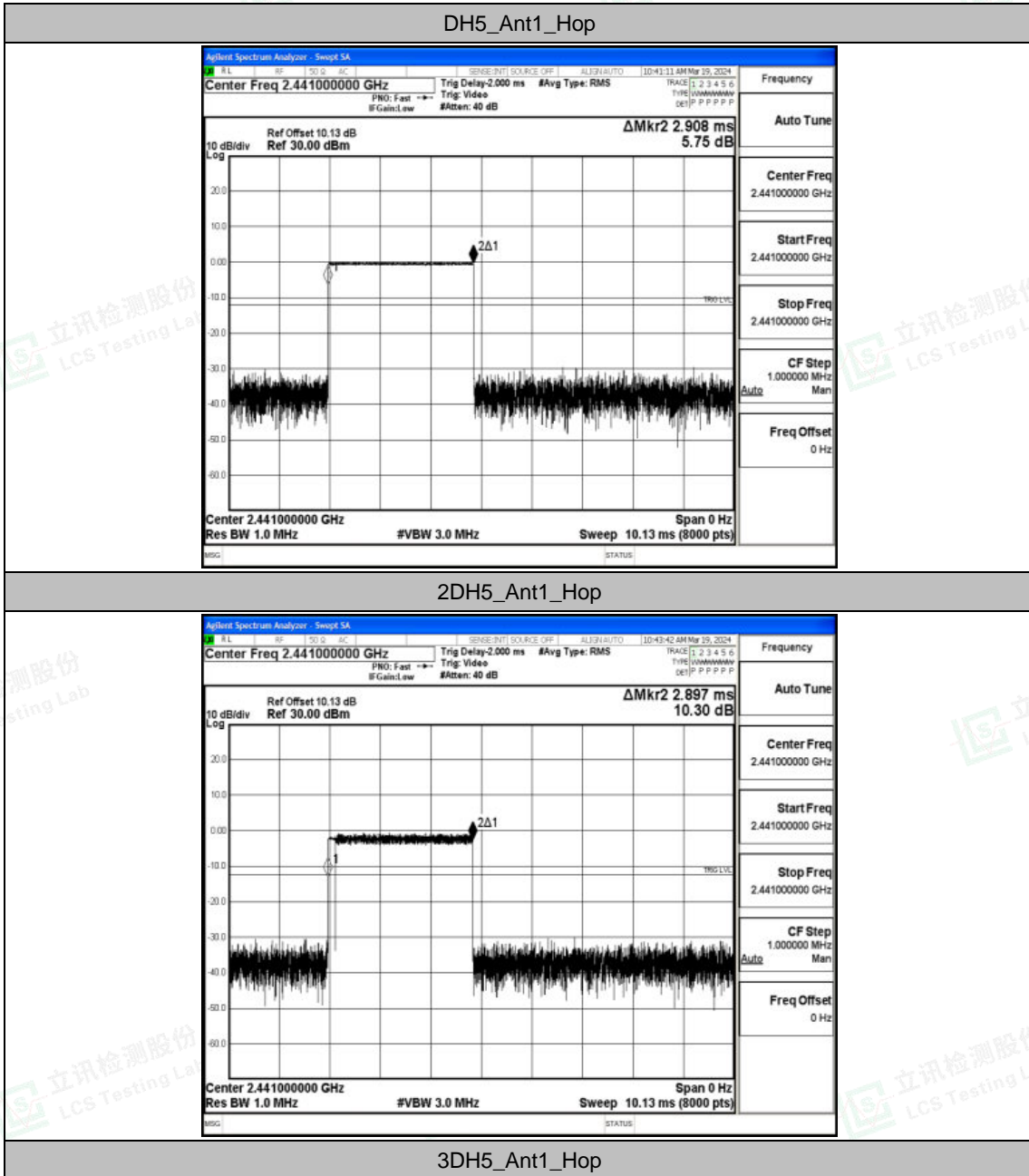
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity





Test Graphs

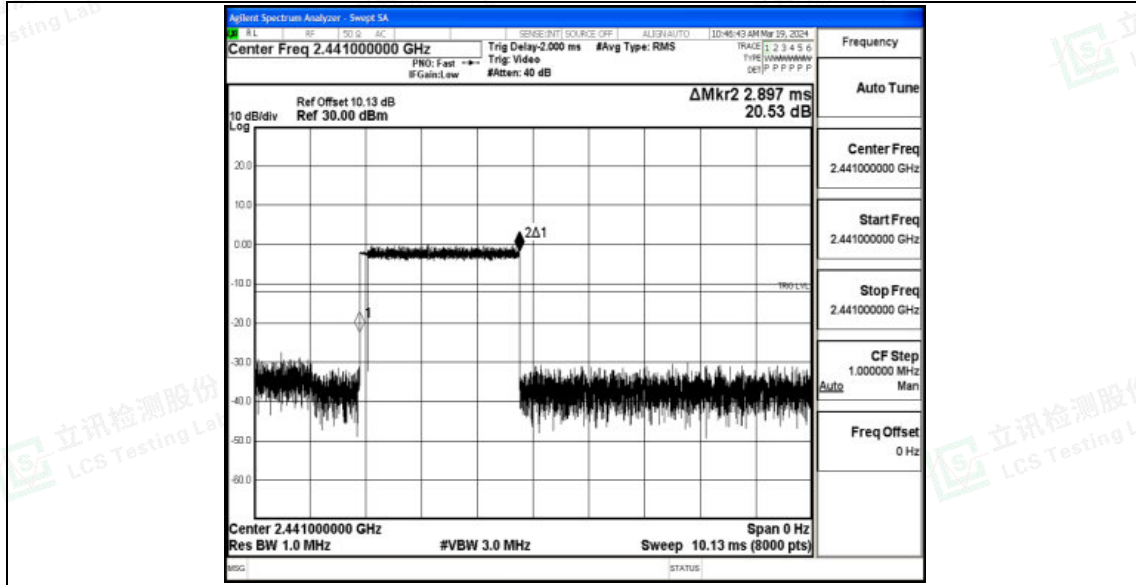


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Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

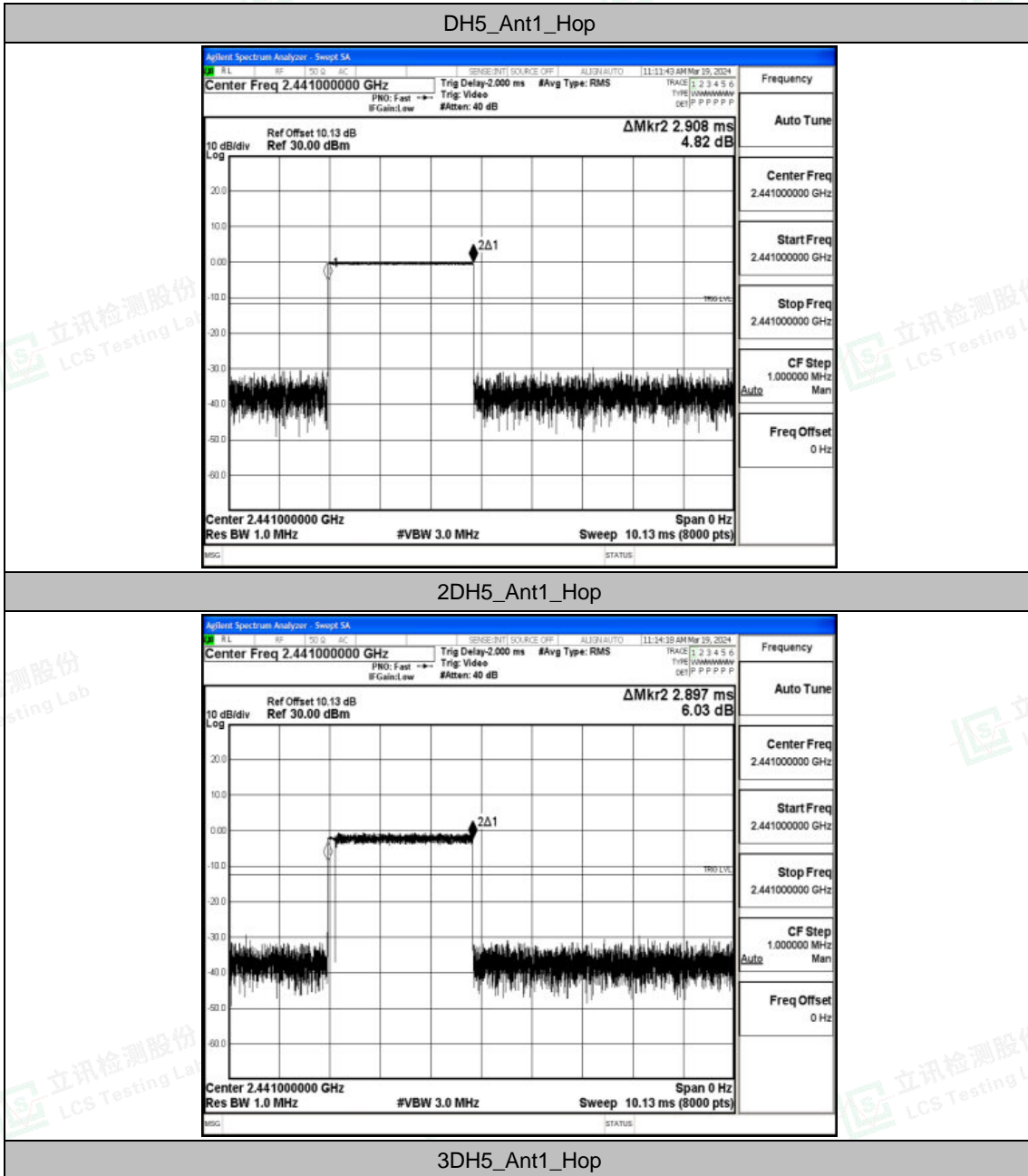
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Test Graphs

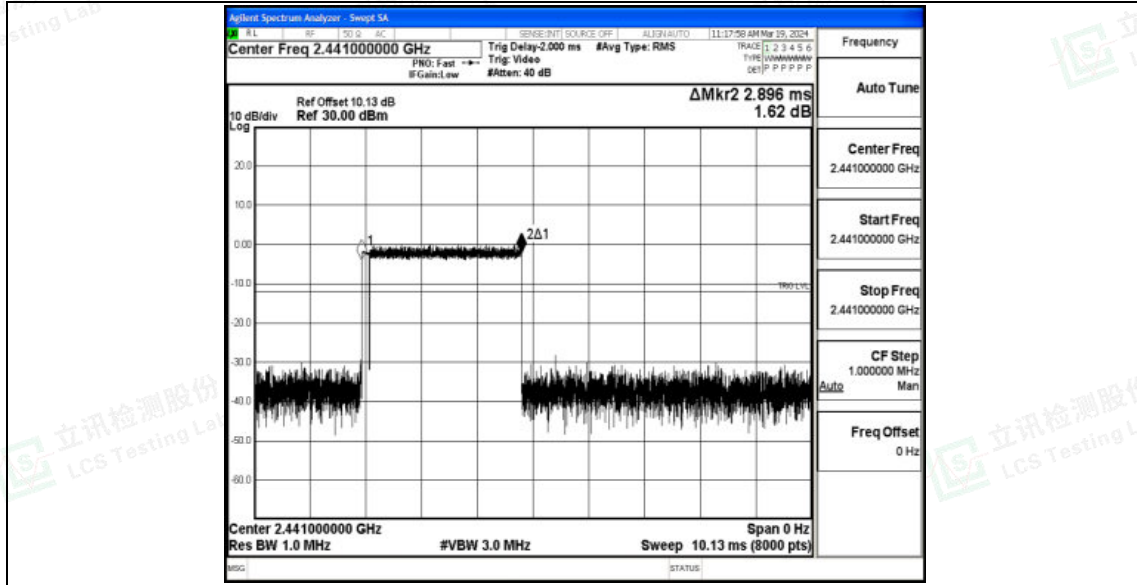


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### A.5 Number of hopping channels

Left Ear:

#### Test Result

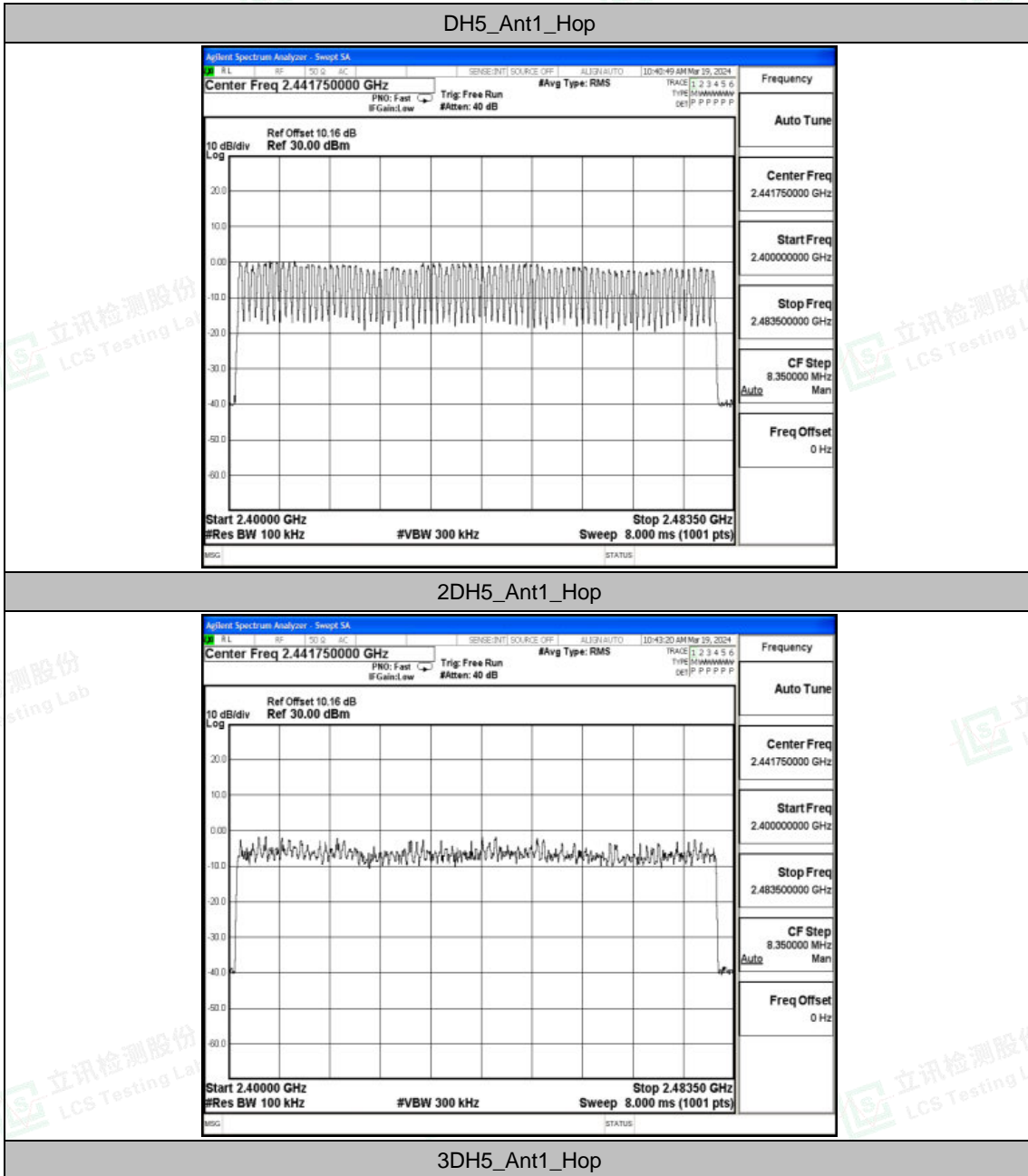
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



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

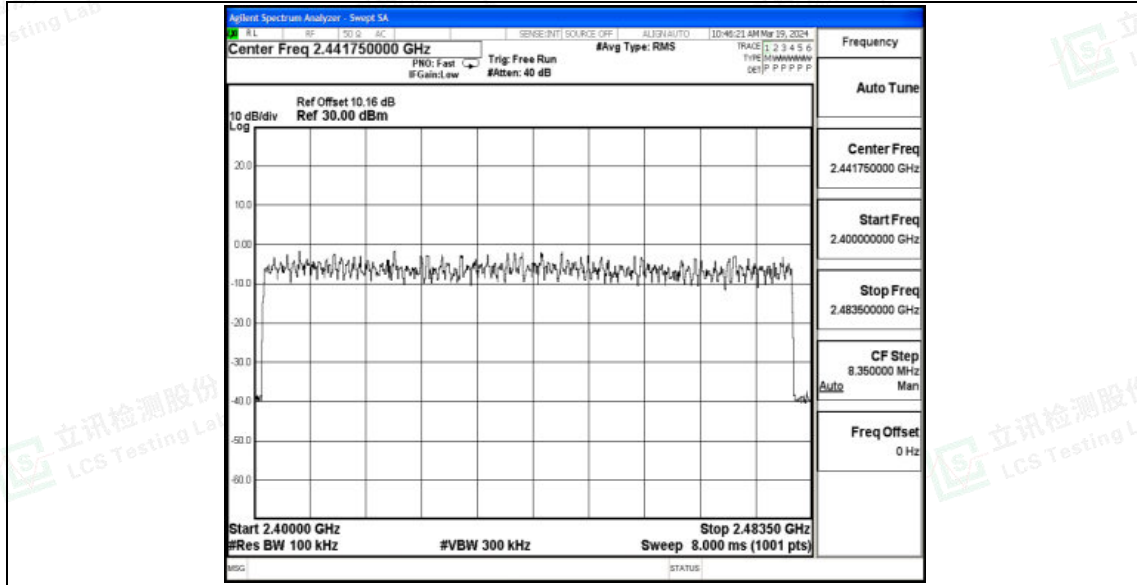


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Right Ear:

**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



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### Test Graphs

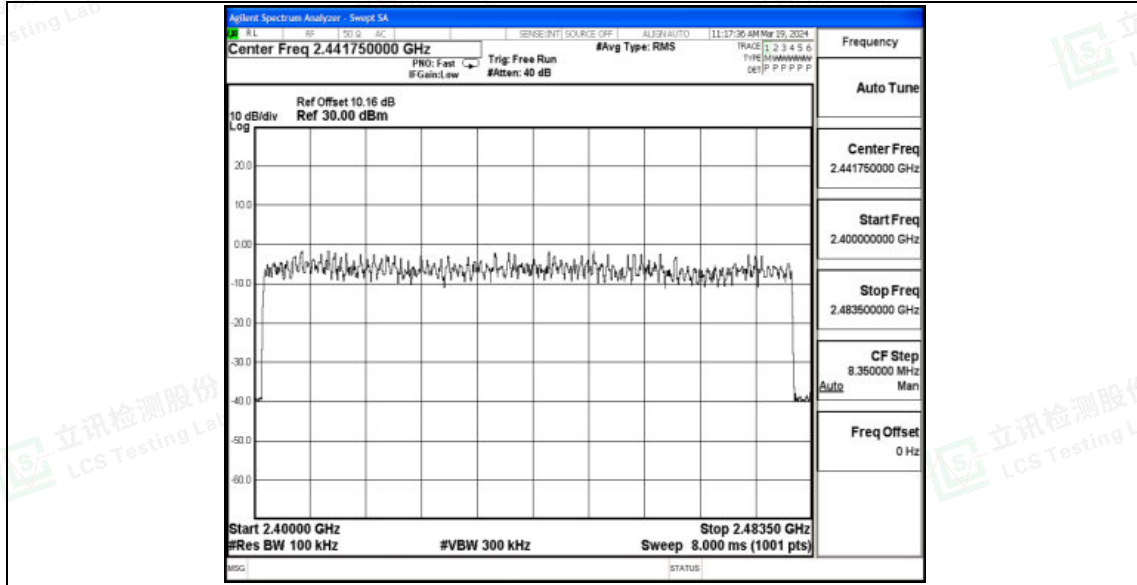


Shenzhen LCS Compliance Testing Laboratory Ltd.

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### A.6 Band edge measurements

Left Ear:

#### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.23	-49.58	≤-19.77	PASS
		High	2480	-0.96	-48.59	≤-20.96	PASS
		Low	Hop_2402	-0.64	-48.07	≤-20.64	PASS
		High	Hop_2480	-1.61	-46.95	≤-21.61	PASS
2DH5	Ant1	Low	2402	-2.35	-48.58	≤-22.35	PASS
		High	2480	-3.29	-49.17	≤-23.29	PASS
		Low	Hop_2402	-2.50	-41.02	≤-22.5	PASS
		High	Hop_2480	-3.75	-47.87	≤-23.75	PASS
3DH5	Ant1	Low	2402	-2.02	-48.56	≤-22.02	PASS
		High	2480	-3.36	-49.26	≤-23.36	PASS
		Low	Hop_2402	-3.76	-47.23	≤-23.76	PASS
		High	Hop_2480	-2.66	-46.73	≤-22.66	PASS



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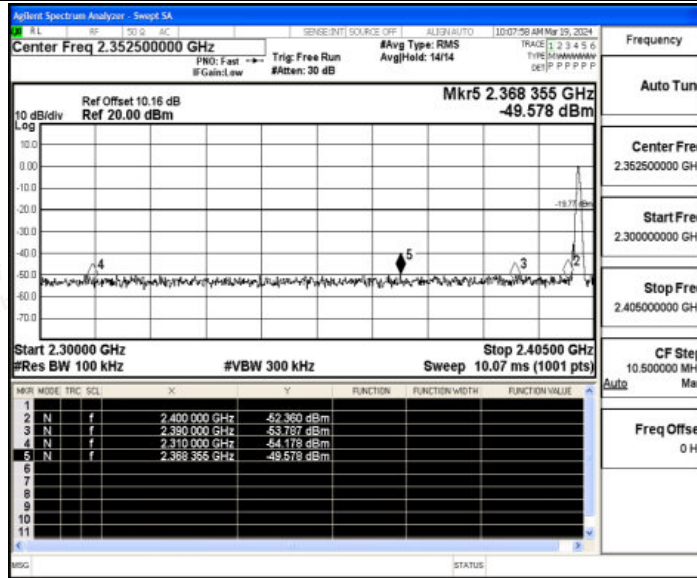
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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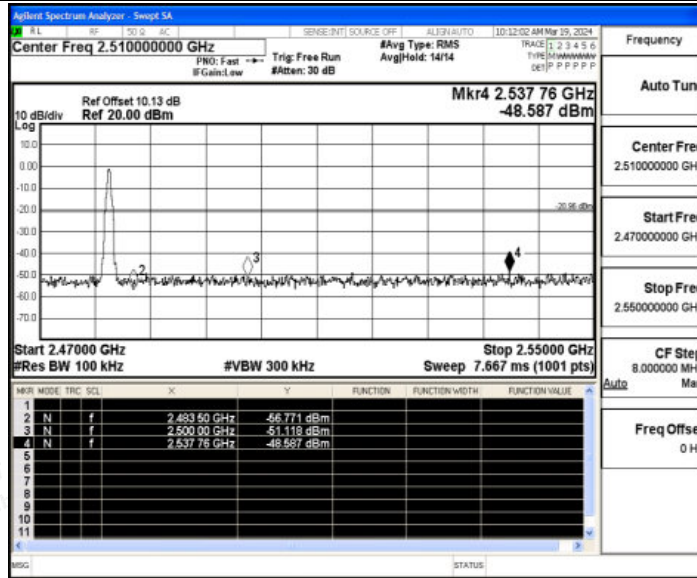


Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402

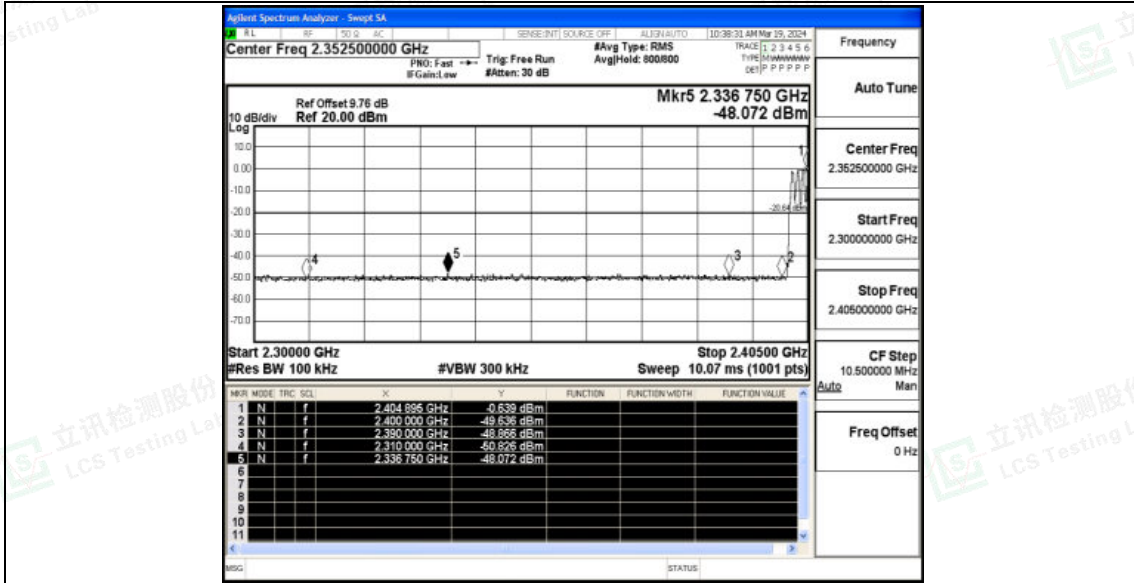


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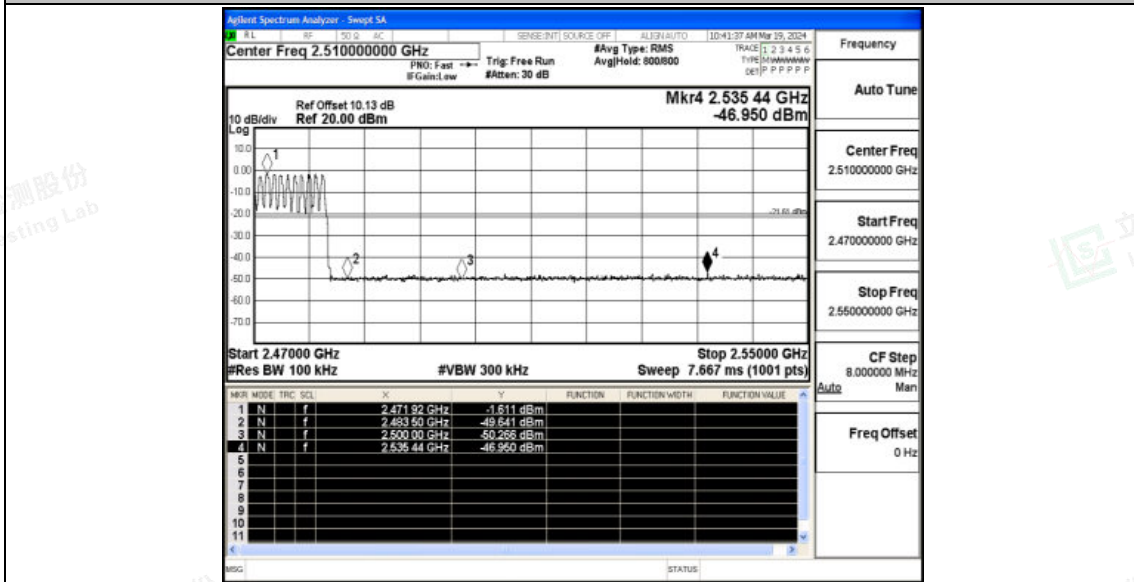
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402

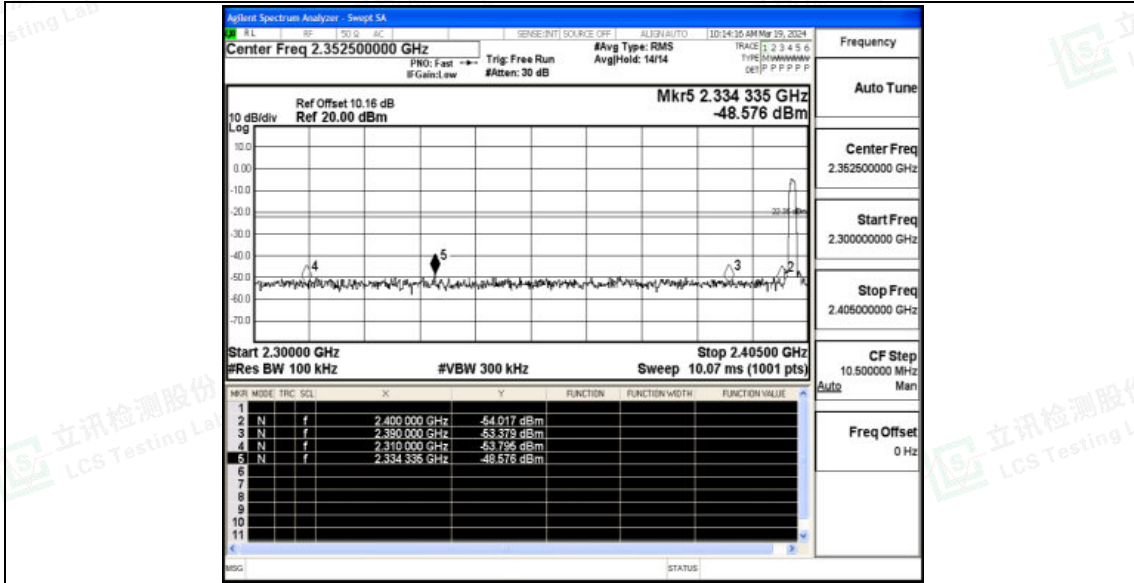


Shenzhen LCS Compliance Testing Laboratory Ltd.

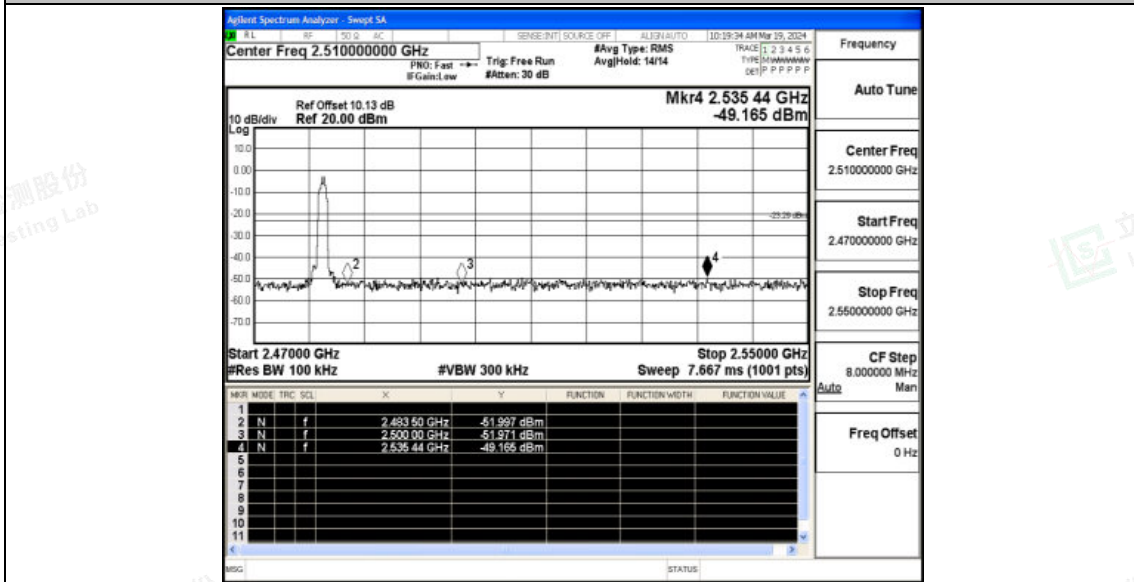
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant1\_High\_2480



2DH5\_Ant1\_Low\_Hop\_2402

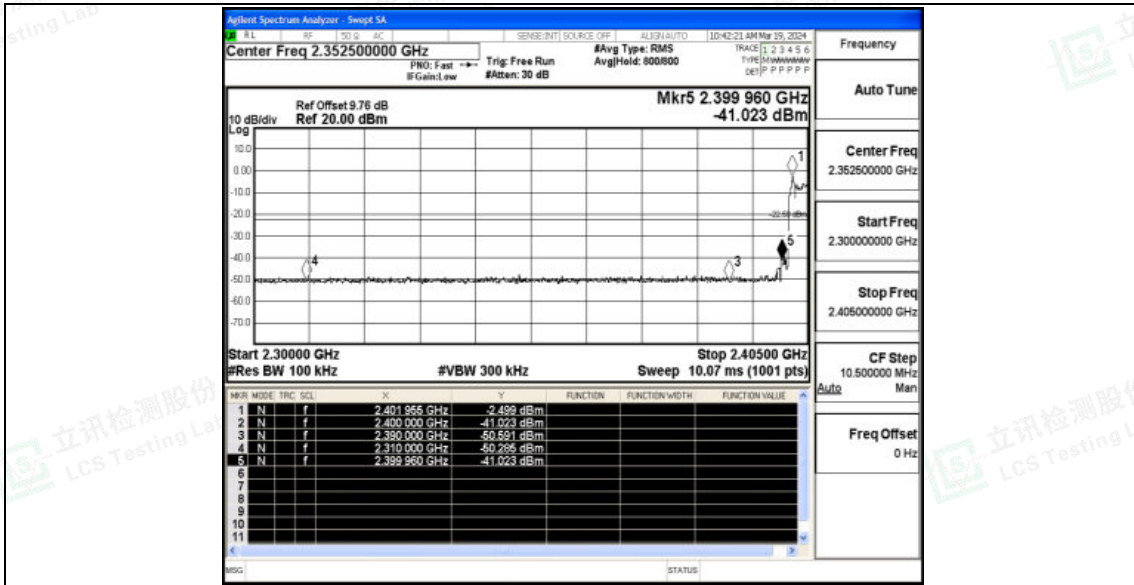


Shenzhen LCS Compliance Testing Laboratory Ltd.

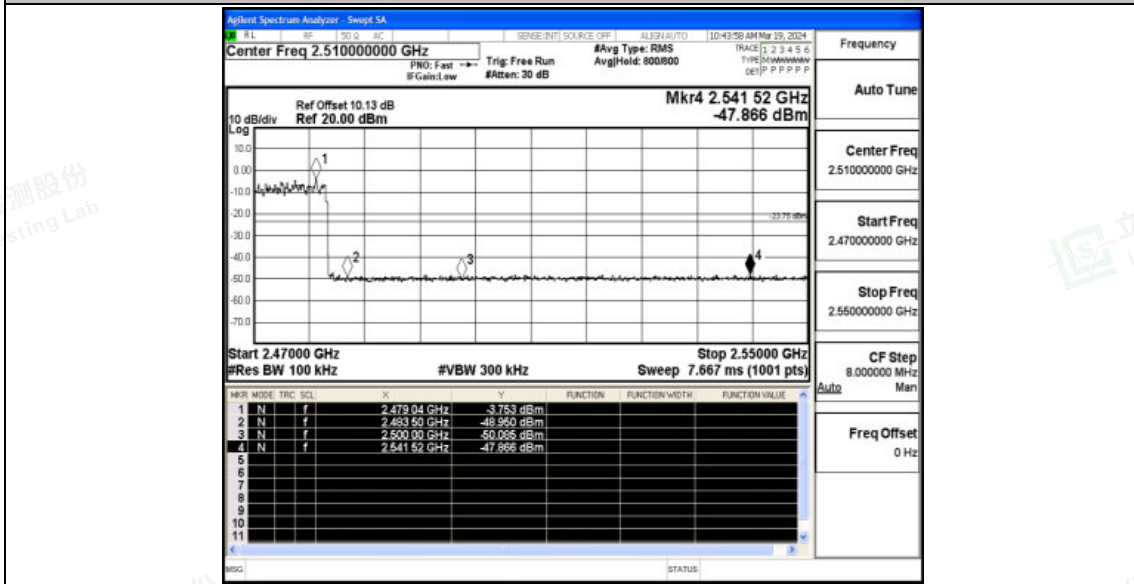
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402



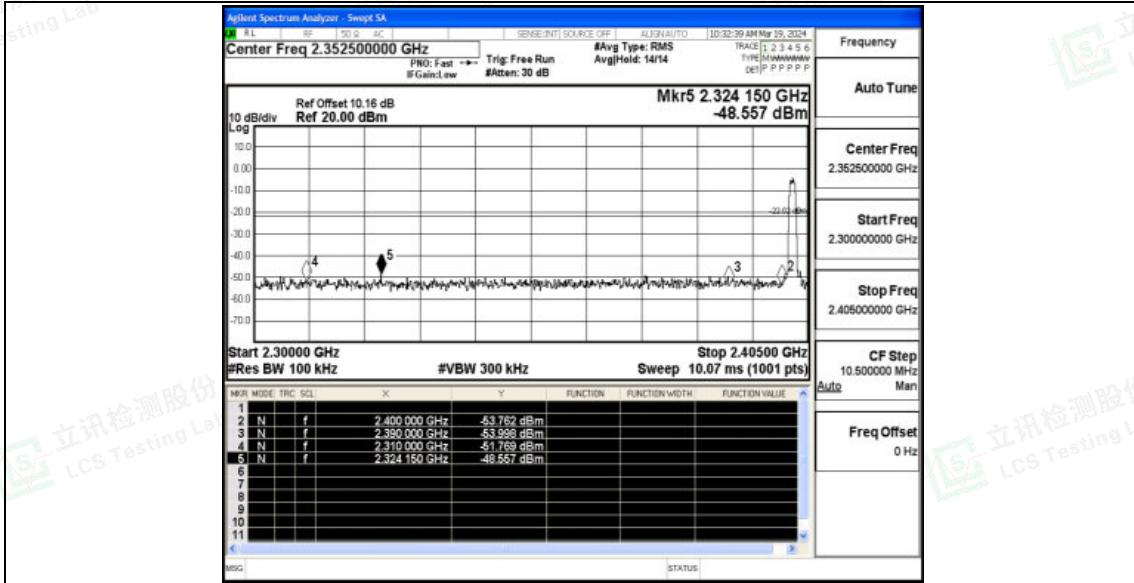
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

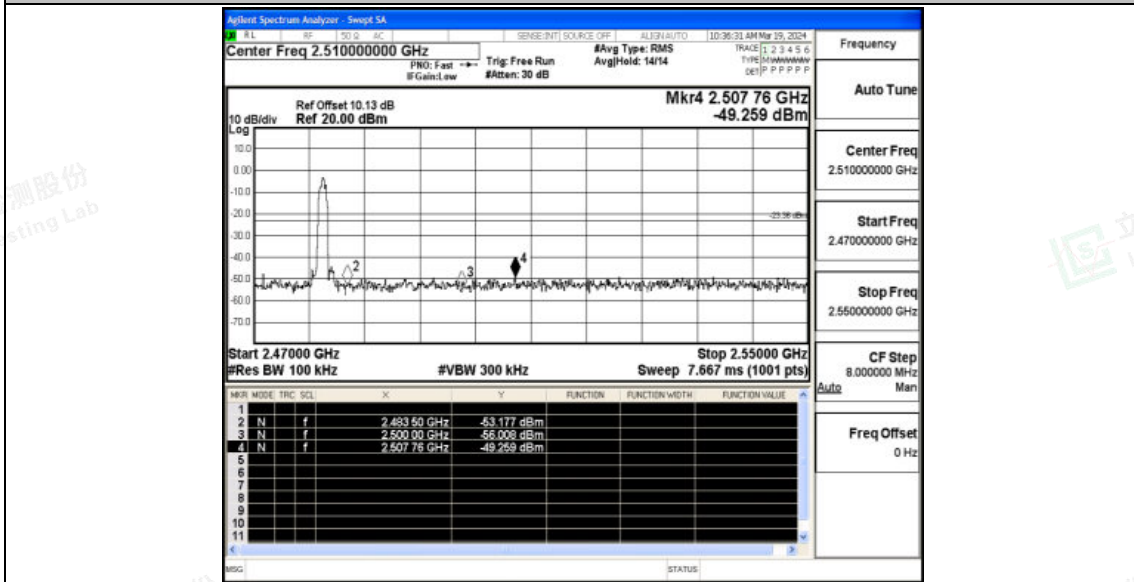
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity





3DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_Hop\_2402

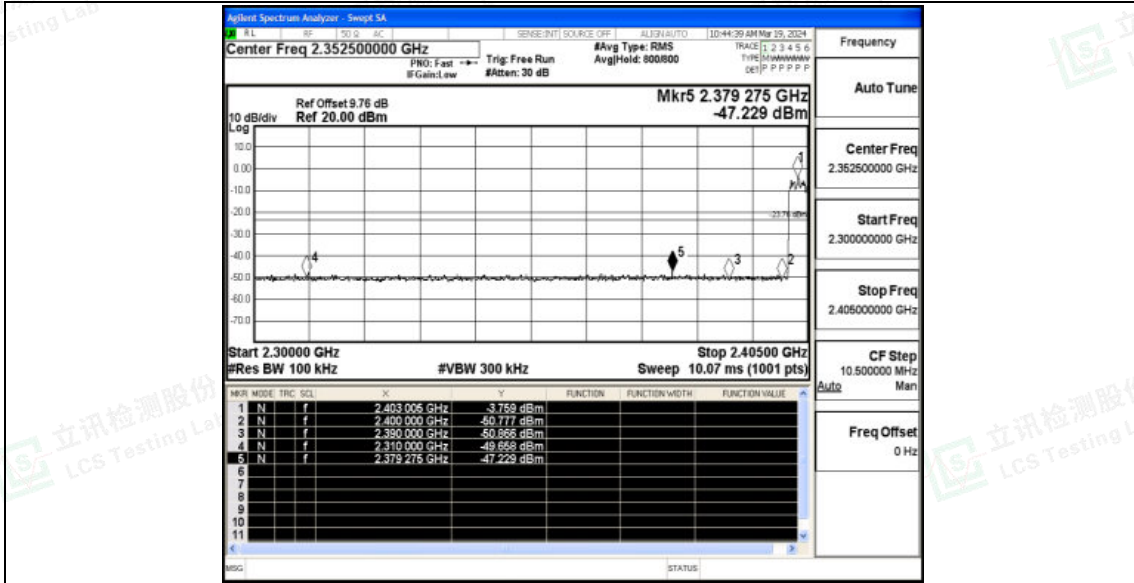


Shenzhen LCS Compliance Testing Laboratory Ltd.

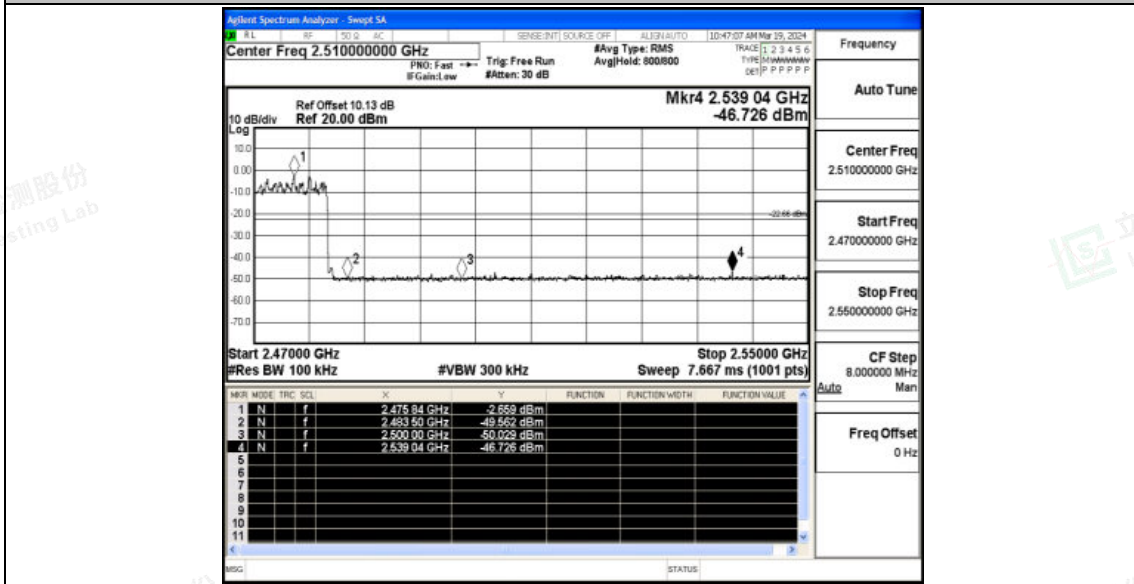
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5\_Ant1\_High\_Hop\_2480



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Right Ear:

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.42	-49.01	≤-20.42	PASS
		High	2480	-1.48	-48.9	≤-21.48	PASS
		Low	Hop_2402	-0.44	-46.72	≤-20.44	PASS
		High	Hop_2480	-1.47	-47.17	≤-21.47	PASS
2DH5	Ant1	Low	2402	-3.49	-49.53	≤-23.49	PASS
		High	2480	-2.94	-48.73	≤-22.94	PASS
		Low	Hop_2402	-0.86	-47.88	≤-20.86	PASS
		High	Hop_2480	-2.99	-44.68	≤-22.99	PASS
3DH5	Ant1	Low	2402	-1.92	-49.13	≤-21.92	PASS
		High	2480	-2.71	-48.83	≤-22.71	PASS
		Low	Hop_2402	-2.33	-48.03	≤-22.33	PASS
		High	Hop_2480	-2.65	-46.26	≤-22.65	PASS



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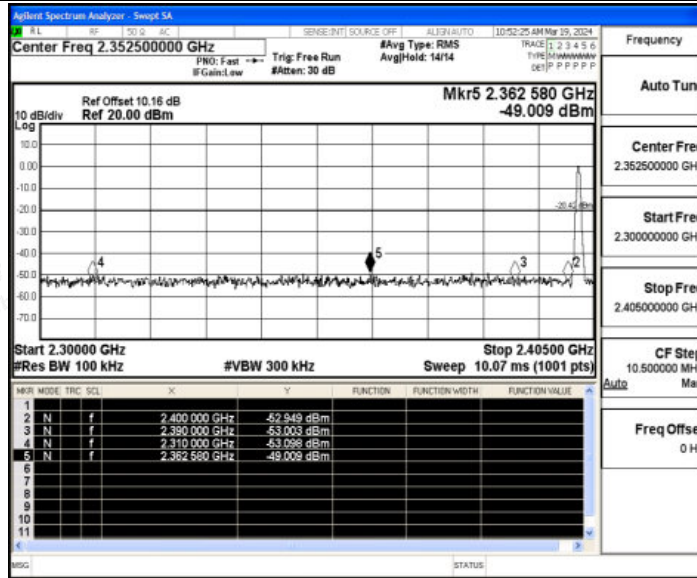
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

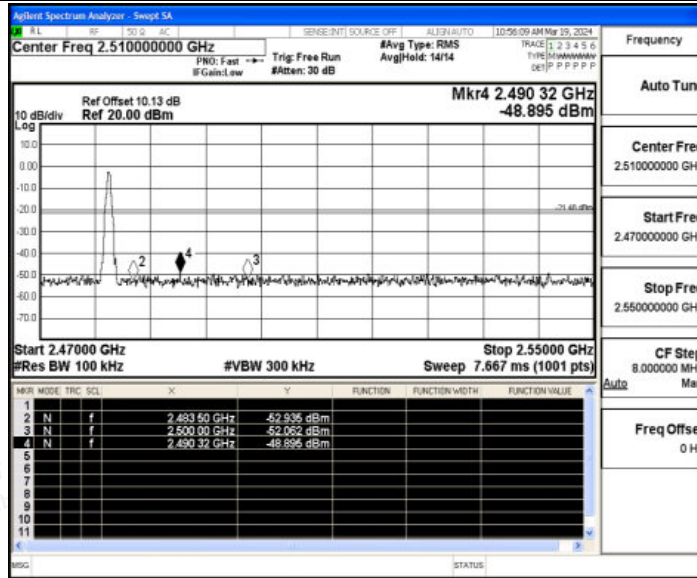


Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402

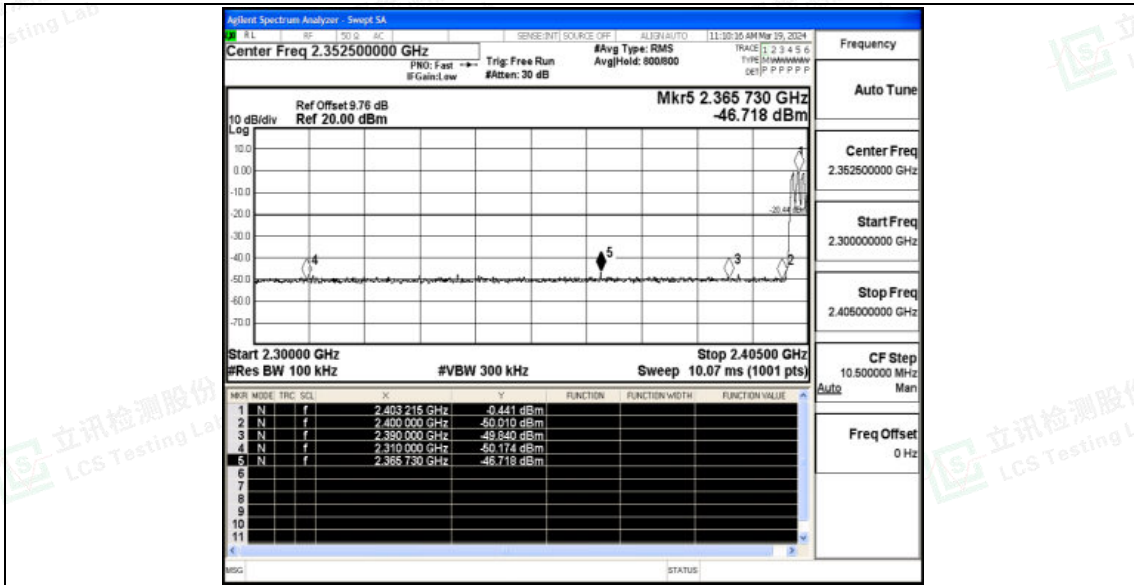


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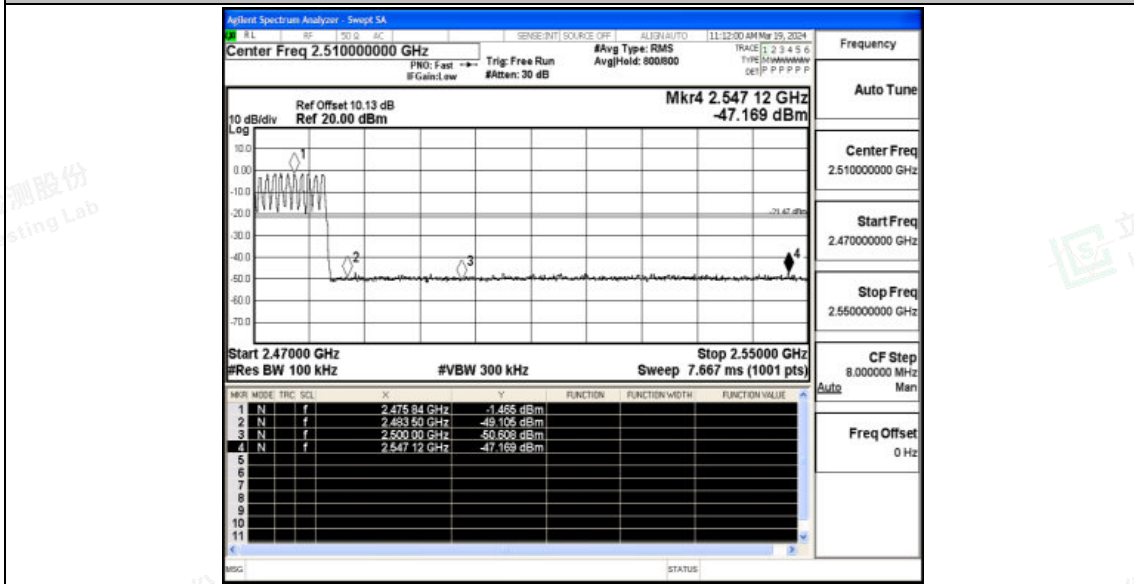
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402

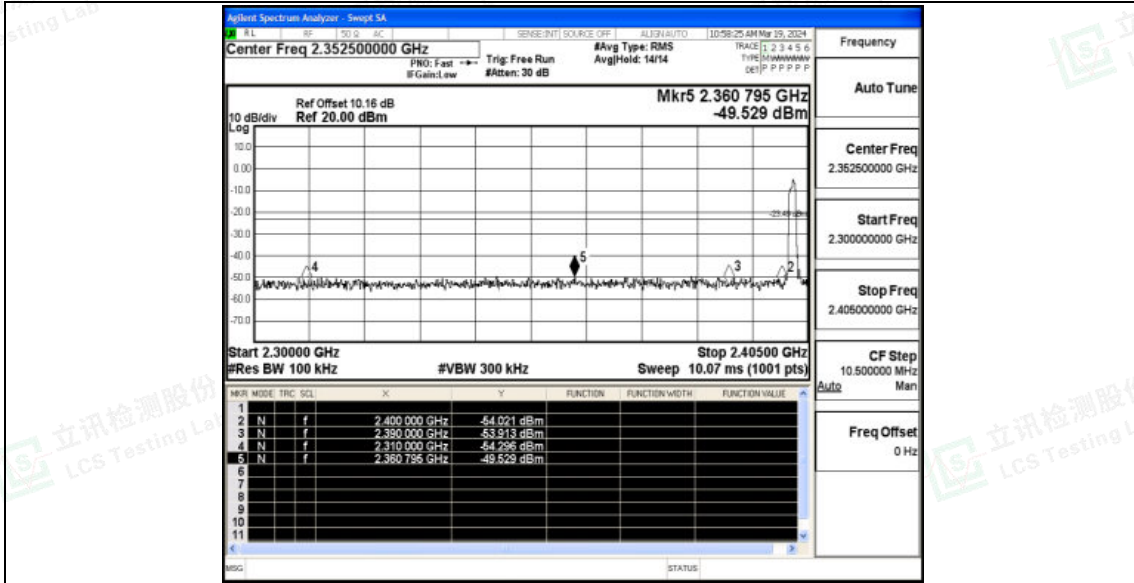


Shenzhen LCS Compliance Testing Laboratory Ltd.

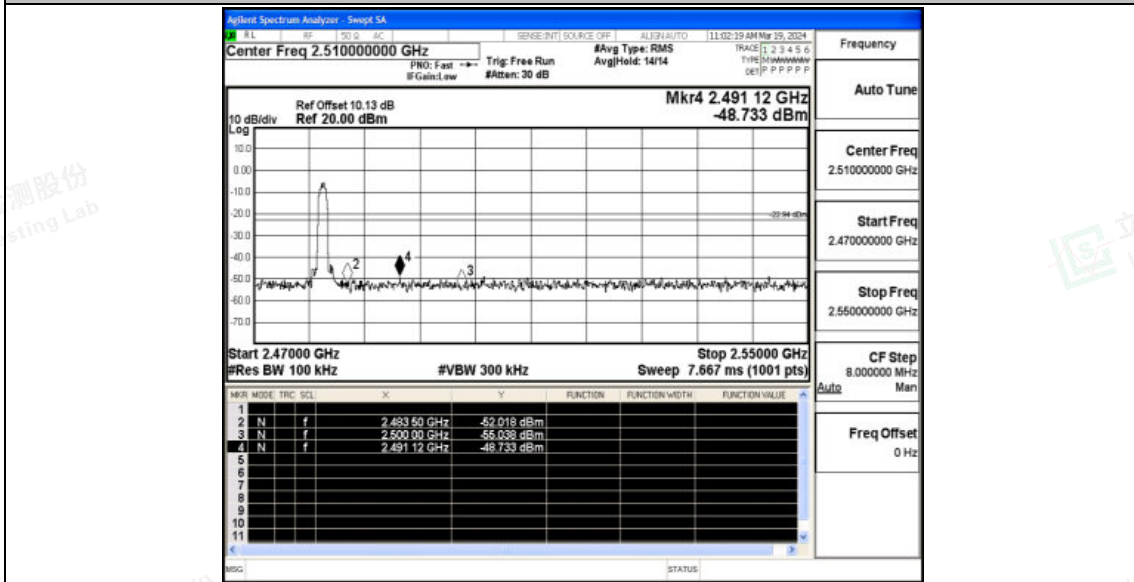
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant1\_High\_2480



2DH5\_Ant1\_Low\_Hop\_2402

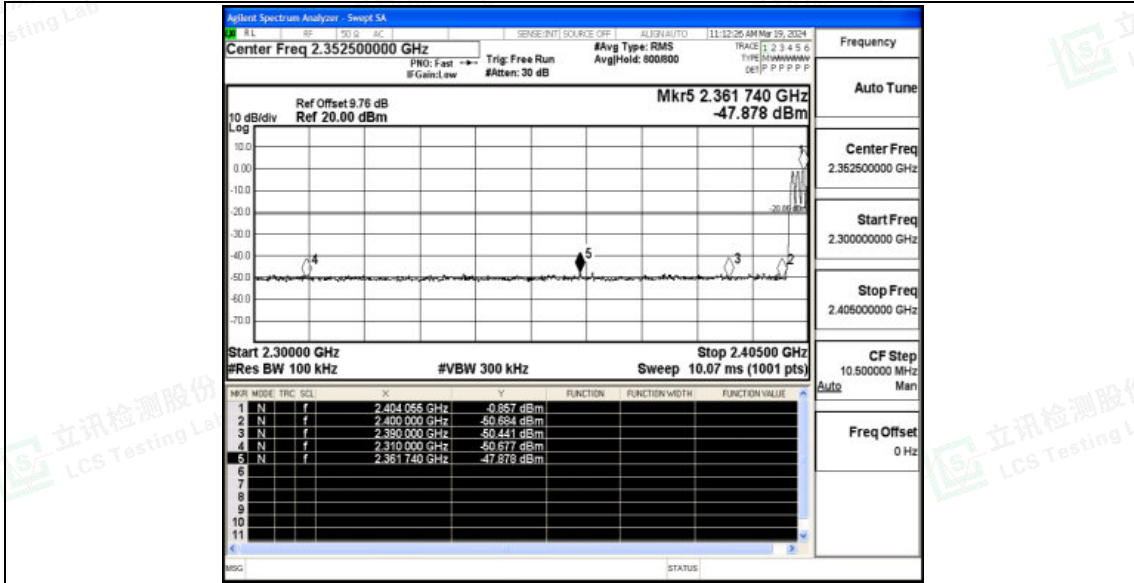


Shenzhen LCS Compliance Testing Laboratory Ltd.

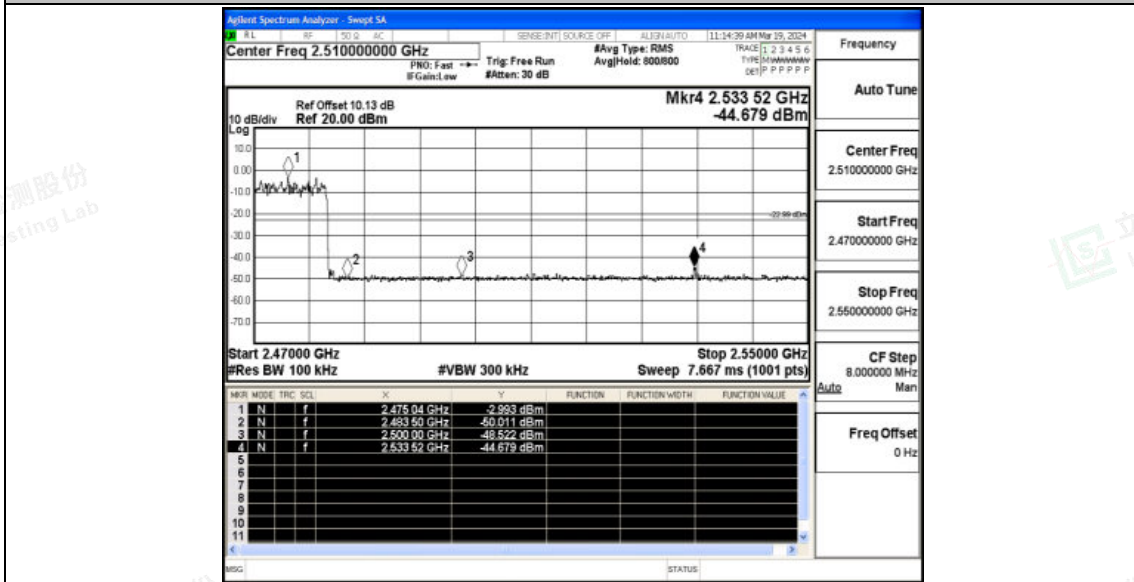
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402

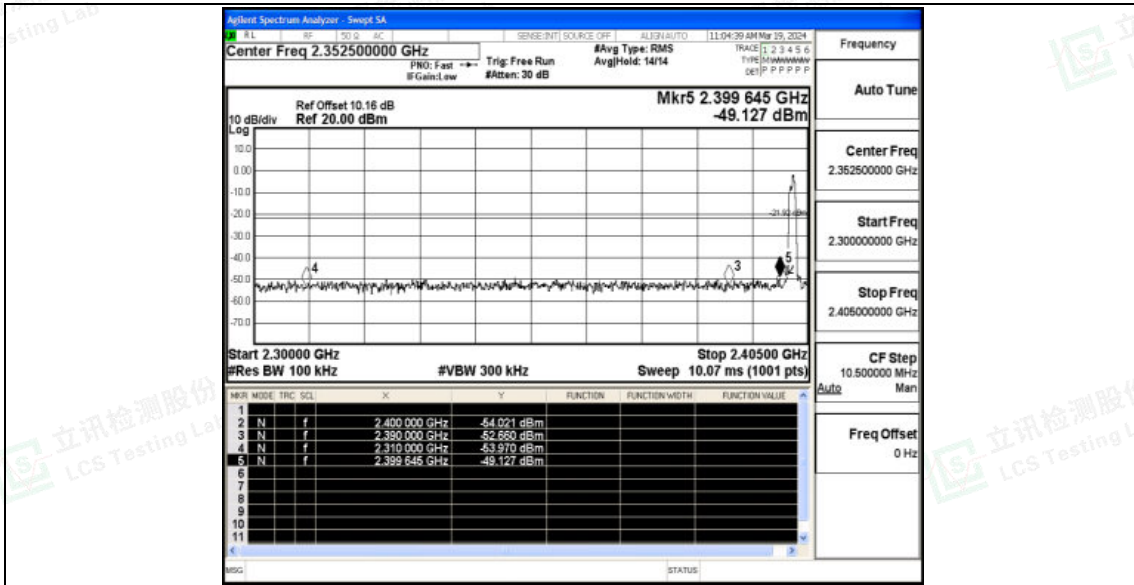


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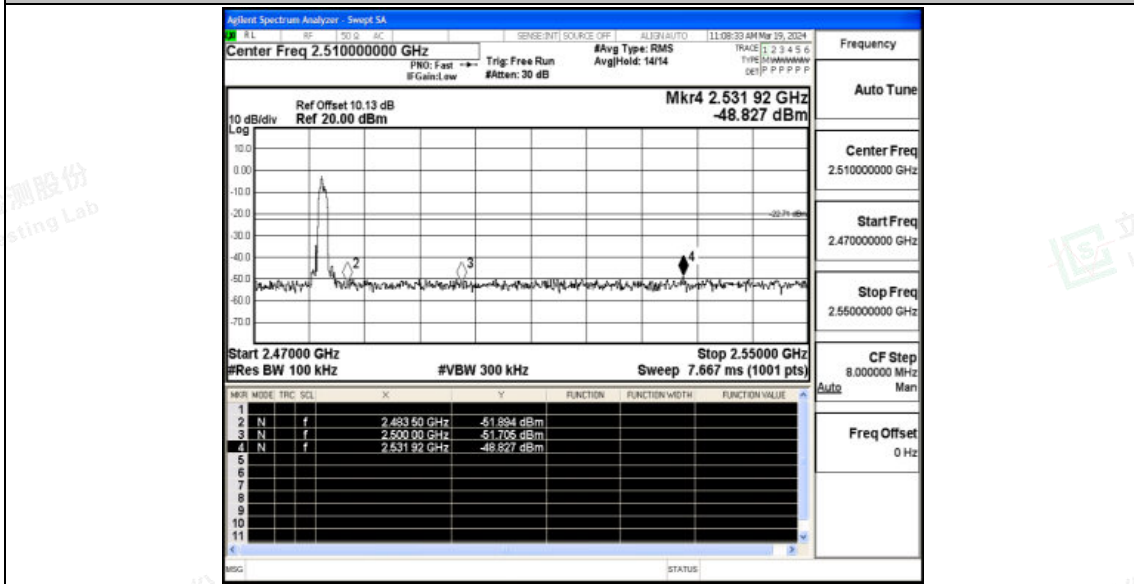
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_Hop\_2402



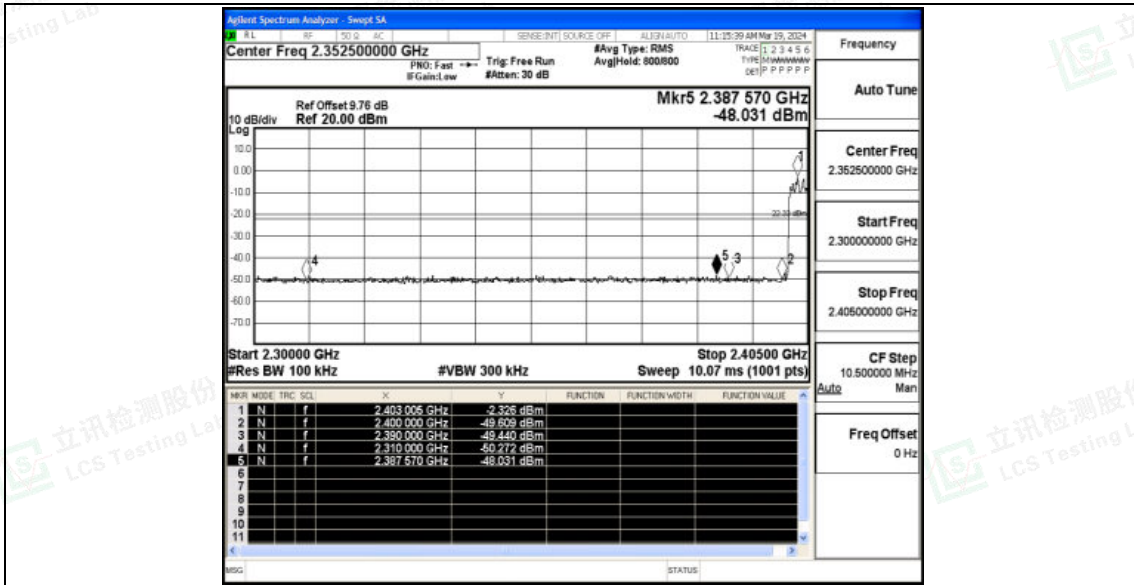
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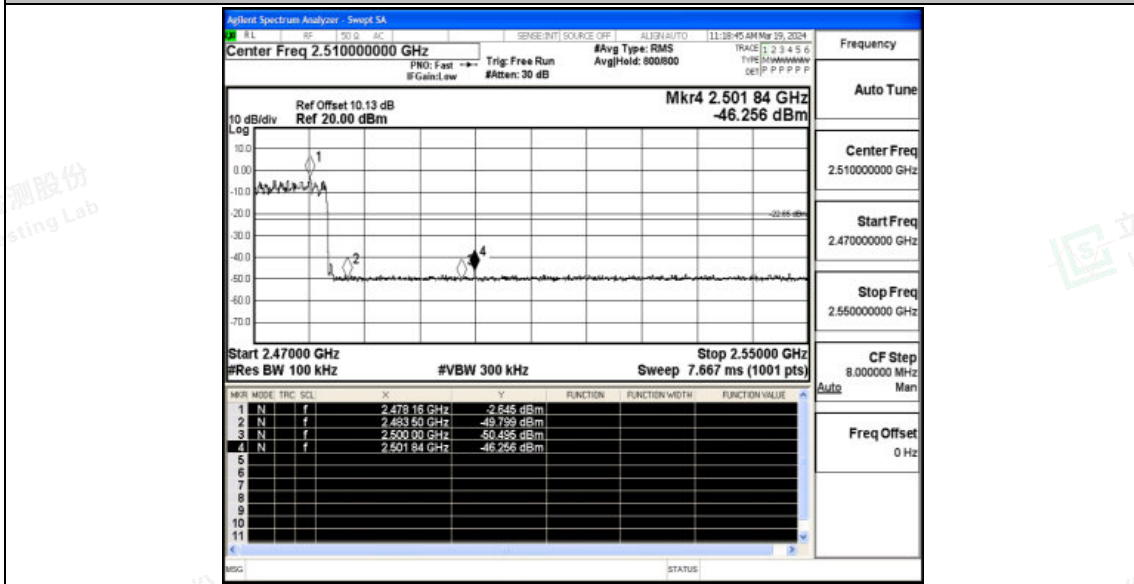
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3DH5\_Ant1\_High\_Hop\_2480



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### A.7 Conducted Spurious Emission

Left Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	0.23	-59.38	≤-19.77	PASS
			1000~26500	0.23	-46.77	≤-19.77	PASS
		2441	30~1000	0.04	-59.67	≤-19.96	PASS
			1000~26500	0.04	-46.64	≤-19.96	PASS
		2480	30~1000	-0.96	-53.65	≤-20.96	PASS
			1000~26500	-0.96	-45.94	≤-20.96	PASS
2DH5	Ant1	2402	30~1000	-2.35	-52.67	≤-22.35	PASS
			1000~26500	-2.35	-47.2	≤-22.35	PASS
		2441	30~1000	-2.60	-59.61	≤-22.6	PASS
			1000~26500	-2.60	-46.58	≤-22.6	PASS
		2480	30~1000	-3.29	-59.79	≤-23.29	PASS
			1000~26500	-3.29	-46.43	≤-23.29	PASS
3DH5	Ant1	2402	30~1000	-2.02	-59.55	≤-22.02	PASS
			1000~26500	-2.02	-46.56	≤-22.02	PASS
		2441	30~1000	-2.30	-59.1	≤-22.3	PASS
			1000~26500	-2.30	-46.87	≤-22.3	PASS
		2480	30~1000	-3.36	-58.59	≤-23.36	PASS
			1000~26500	-3.36	-47.06	≤-23.36	PASS



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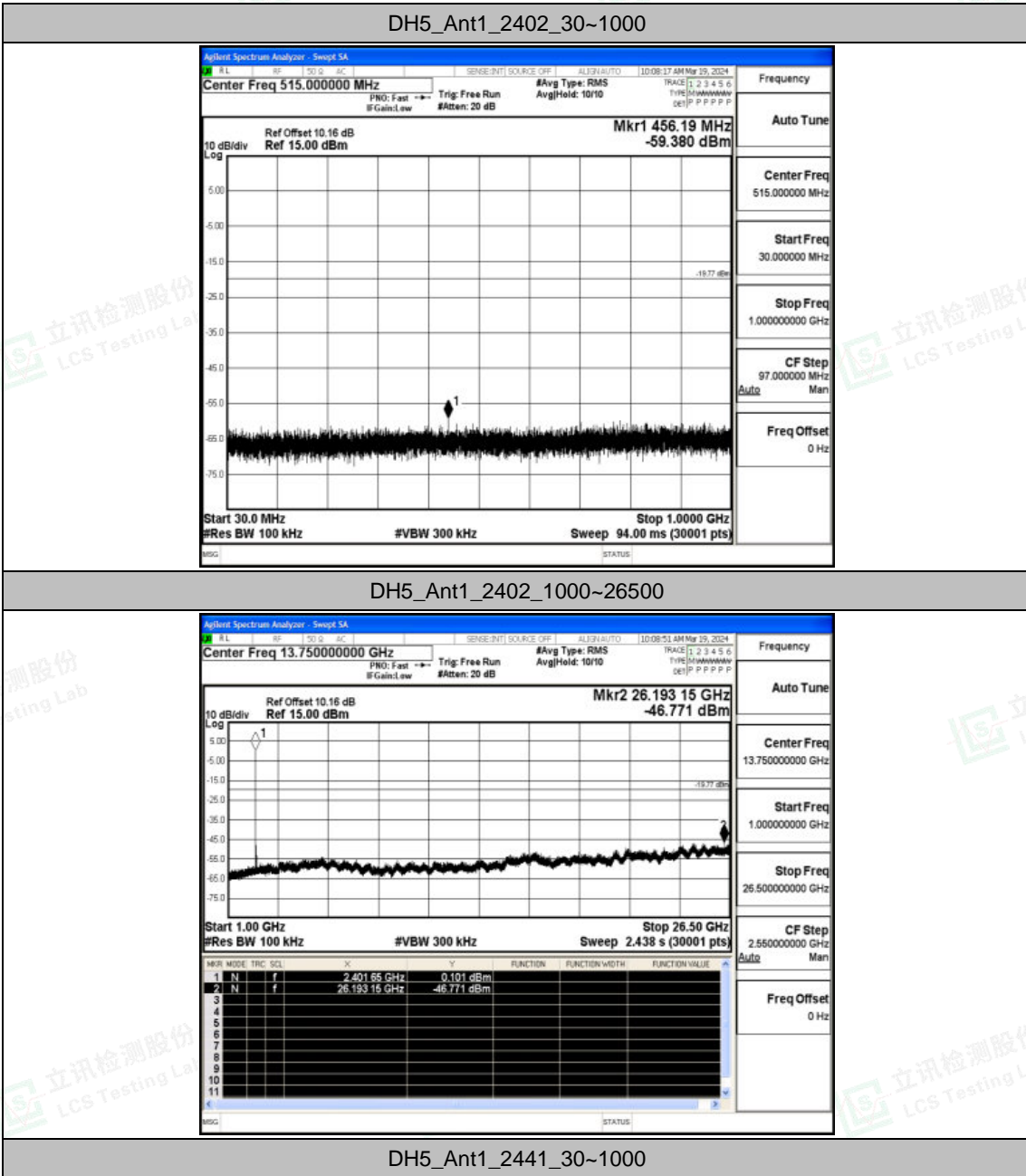
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Test Graphs

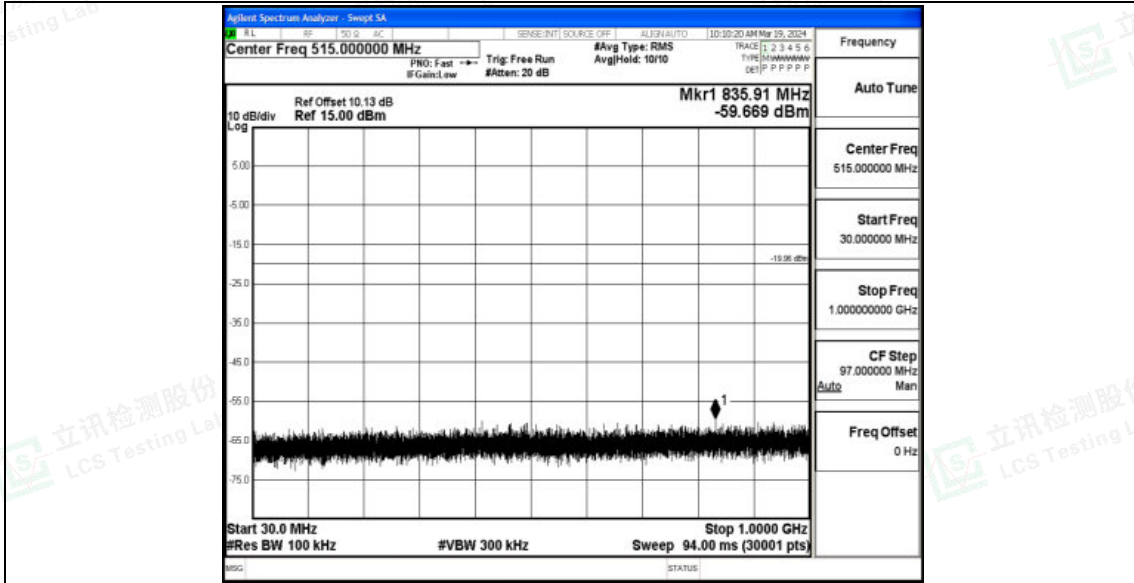


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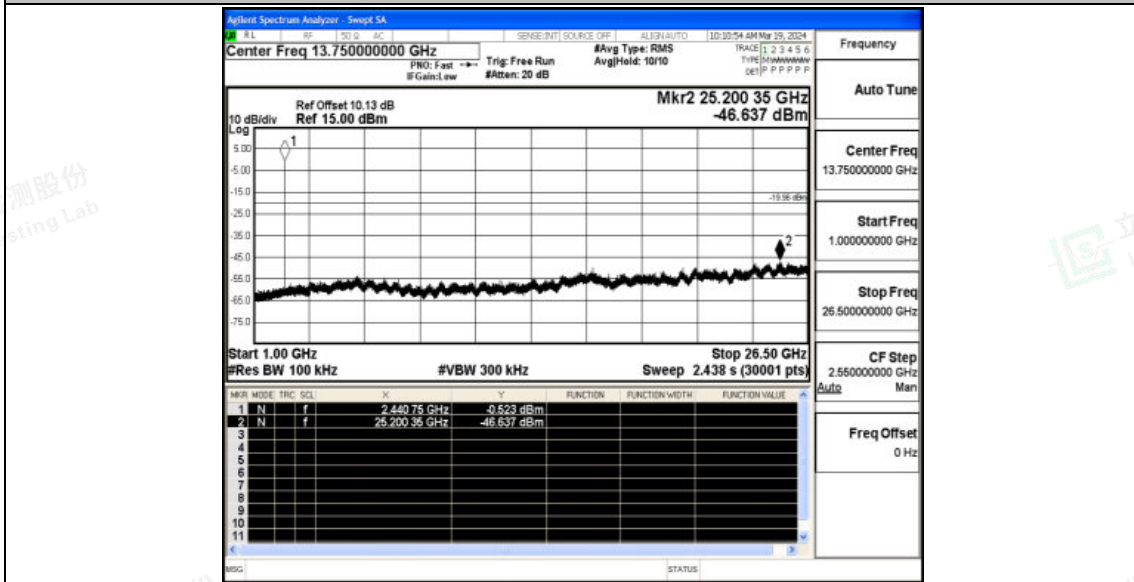
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DH5\_Ant1\_2441\_1000~26500



DH5\_Ant1\_2480\_30~1000

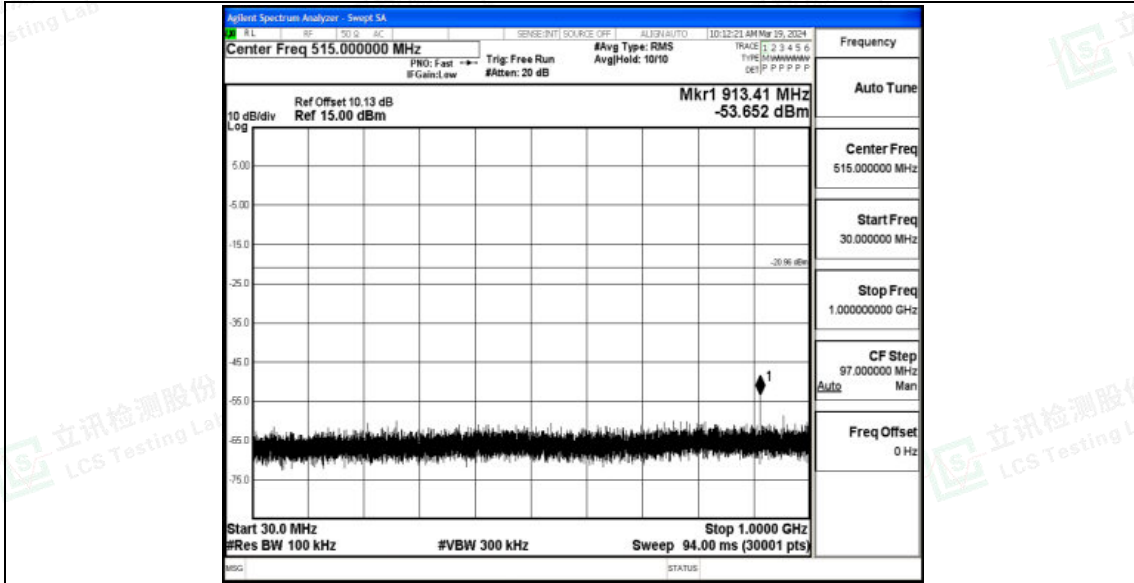


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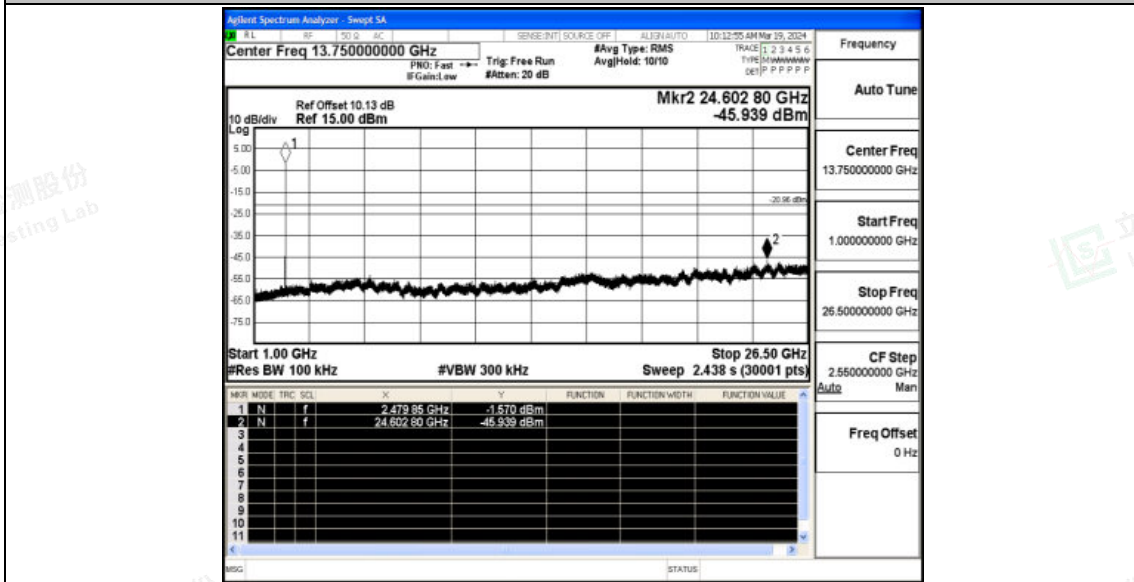
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_30~1000

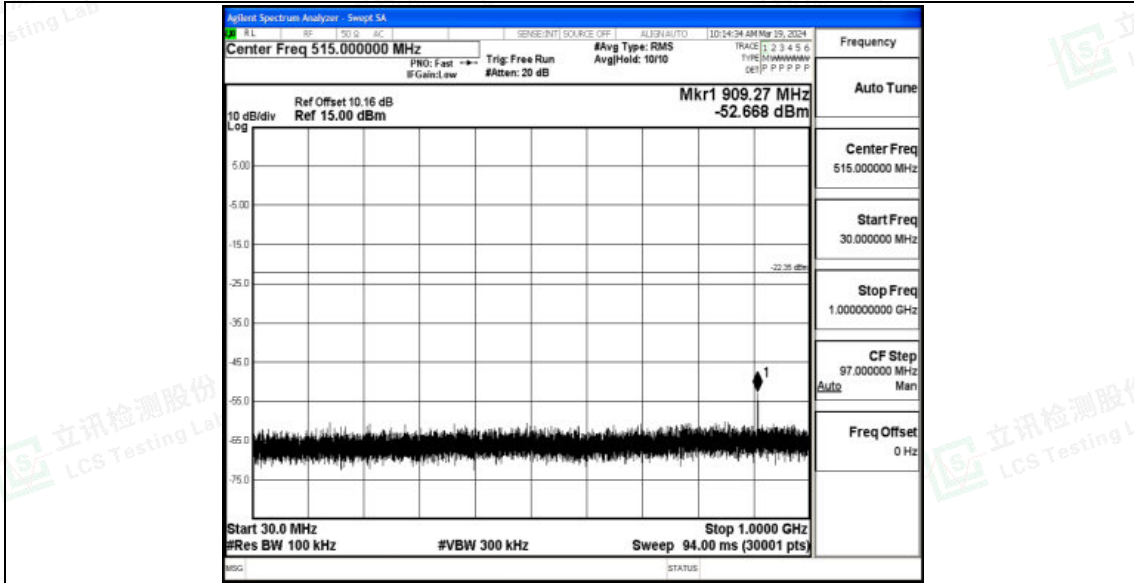


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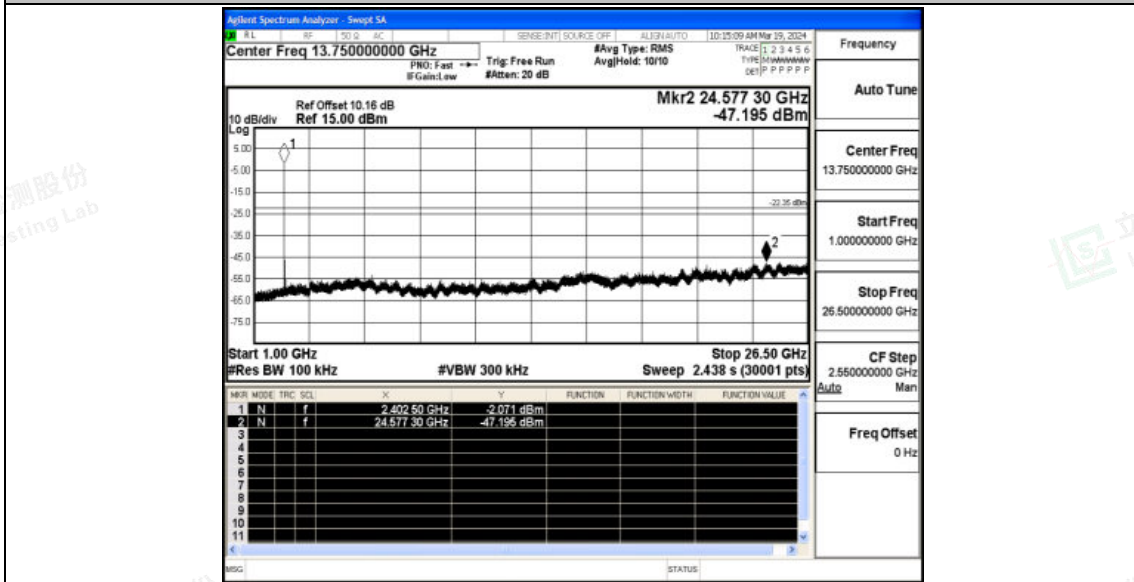
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2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_30~1000

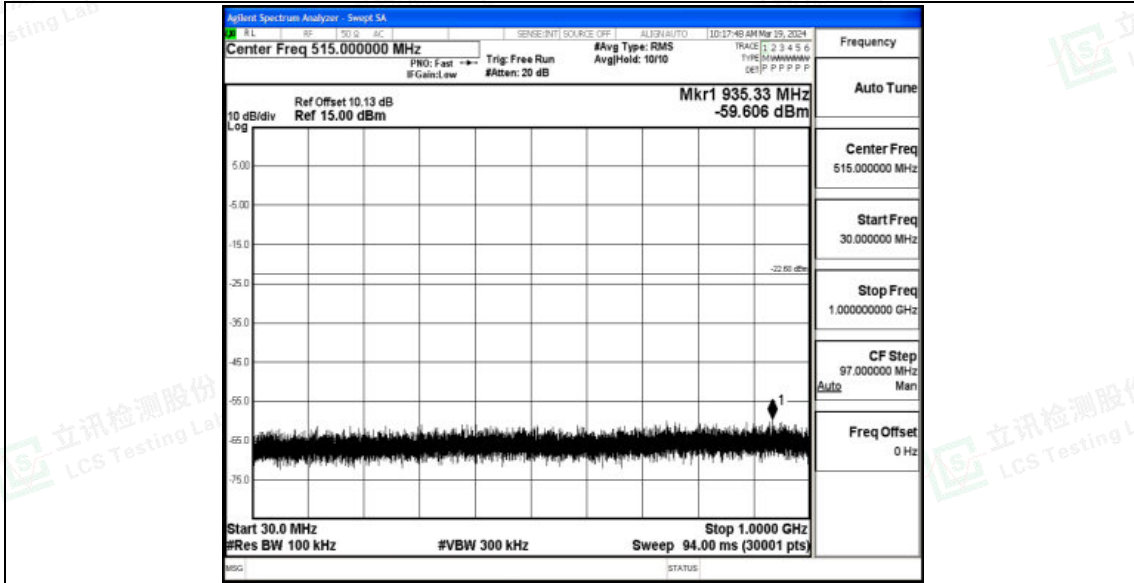


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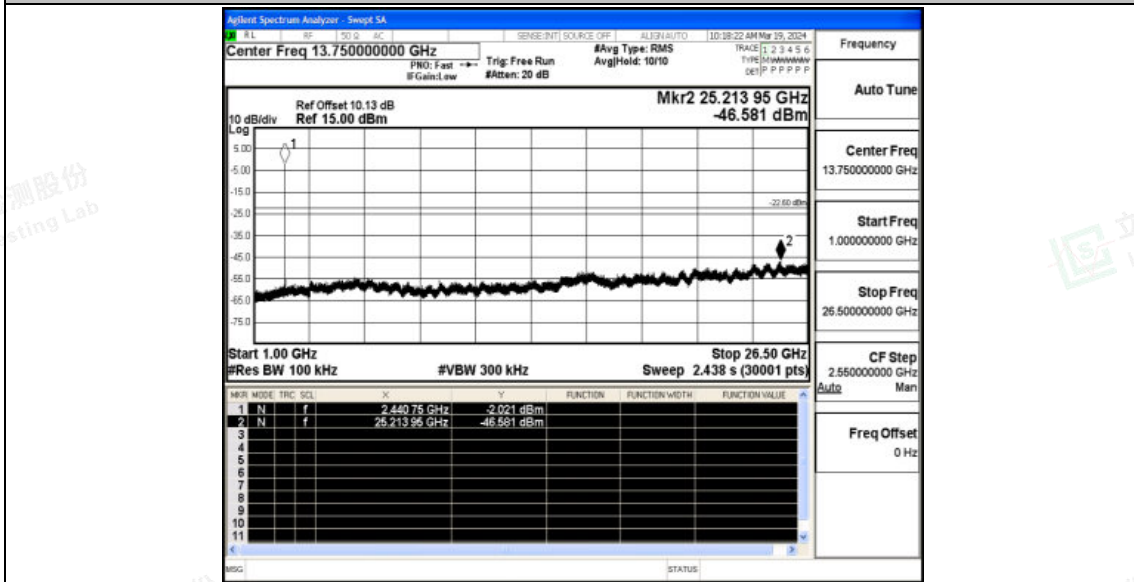
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2DH5\_Ant1\_2441\_1000~26500



2DH5\_Ant1\_2480\_30~1000

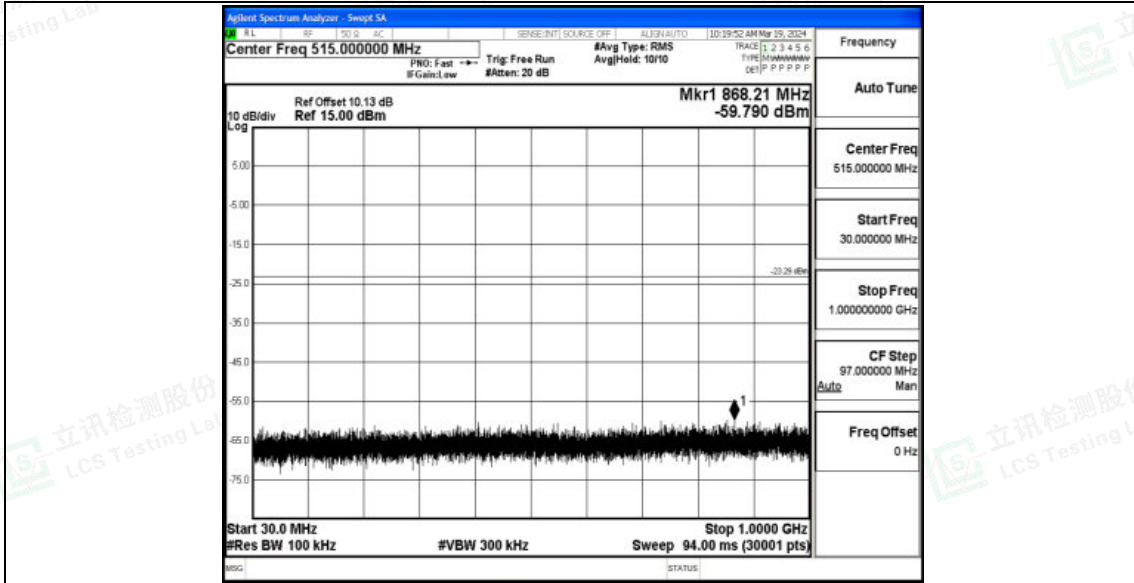


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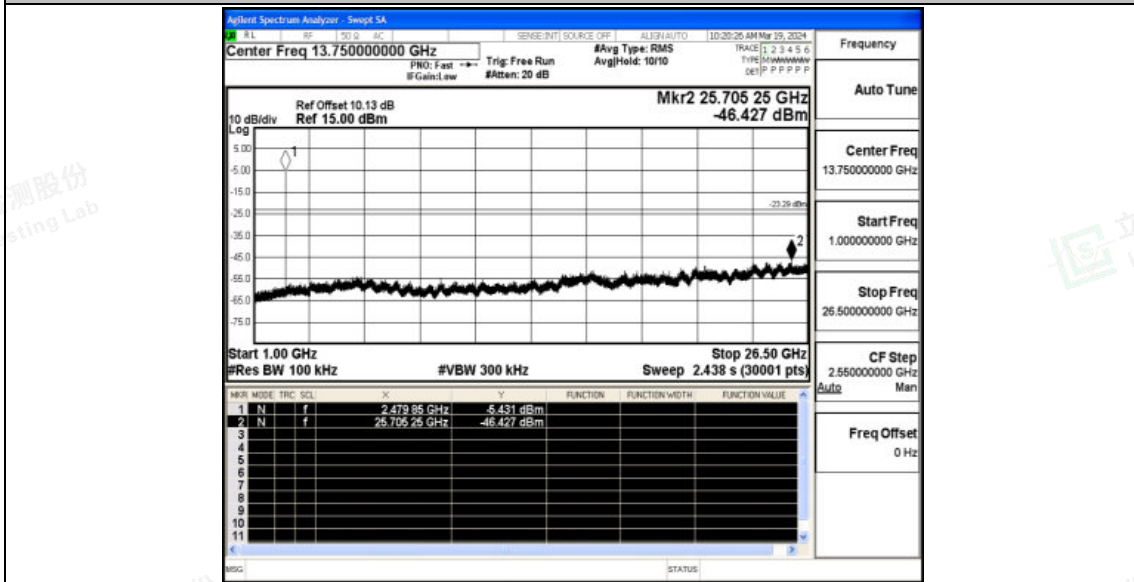
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2DH5\_Ant1\_2480\_1000~26500



3DH5\_Ant1\_2402\_30~1000



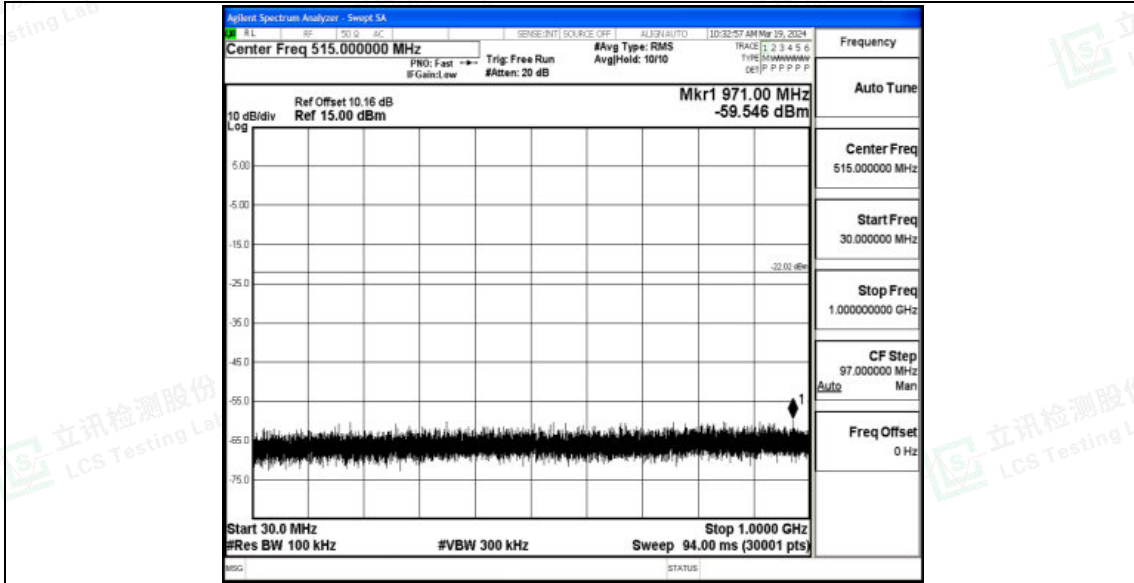
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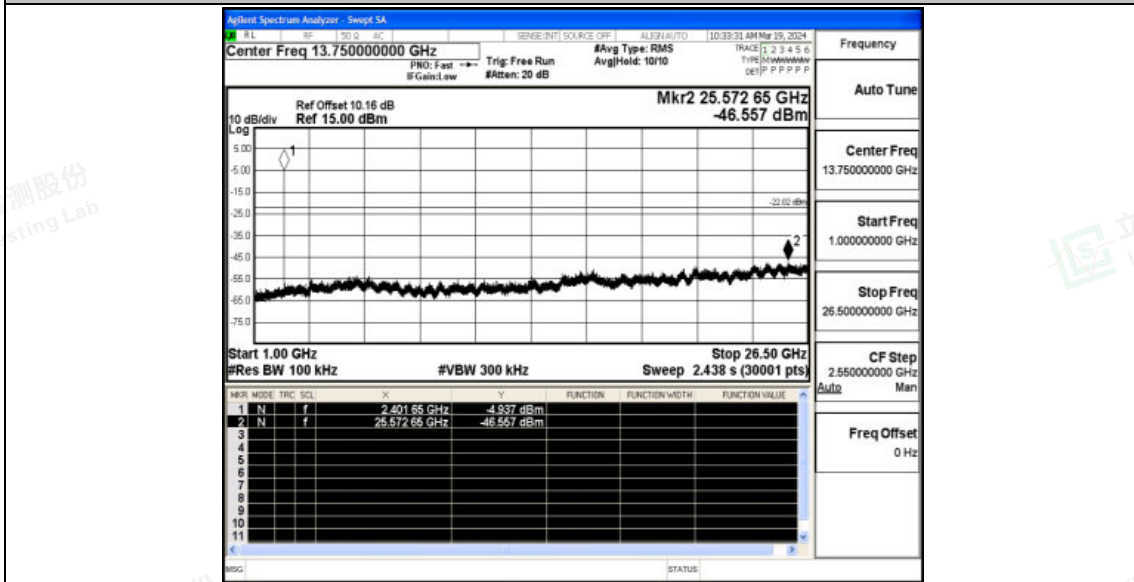
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3DH5\_Ant1\_2402\_1000~26500



3DH5\_Ant1\_2441\_30~1000



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