



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: RTK DEVICE

Test Model: AT-R2

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

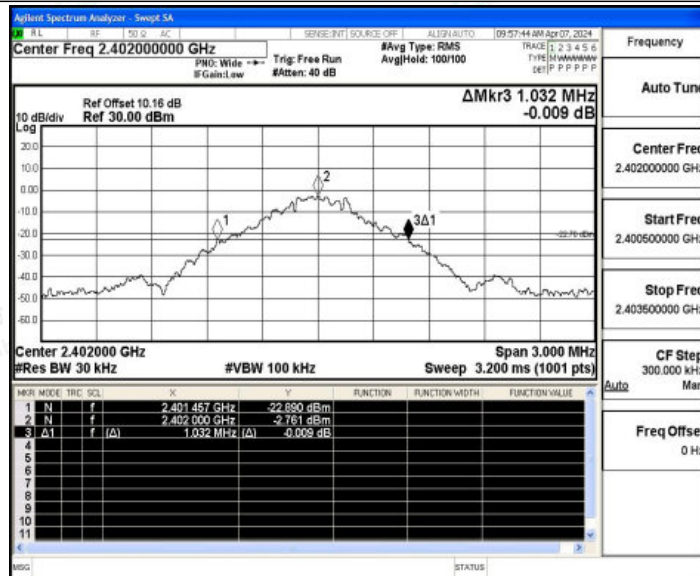
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.457	2402.489	---	---
		2441	1.026	2440.460	2441.486	---	---
		2480	1.020	2479.460	2480.480	---	---
2DH5	Ant1	2402	1.299	2401.346	2402.645	---	---
		2441	1.314	2440.331	2441.645	---	---
		2480	1.362	2479.304	2480.666	---	---
3DH5	Ant1	2402	1.284	2401.349	2402.633	---	---
		2441	1.296	2440.337	2441.633	---	---
		2480	1.314	2479.328	2480.642	---	---



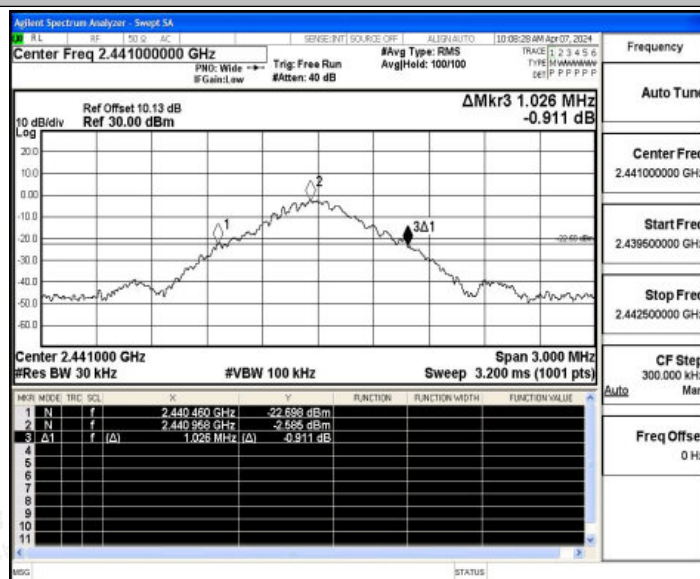


Test Graphs

DH5_Ant1_2402

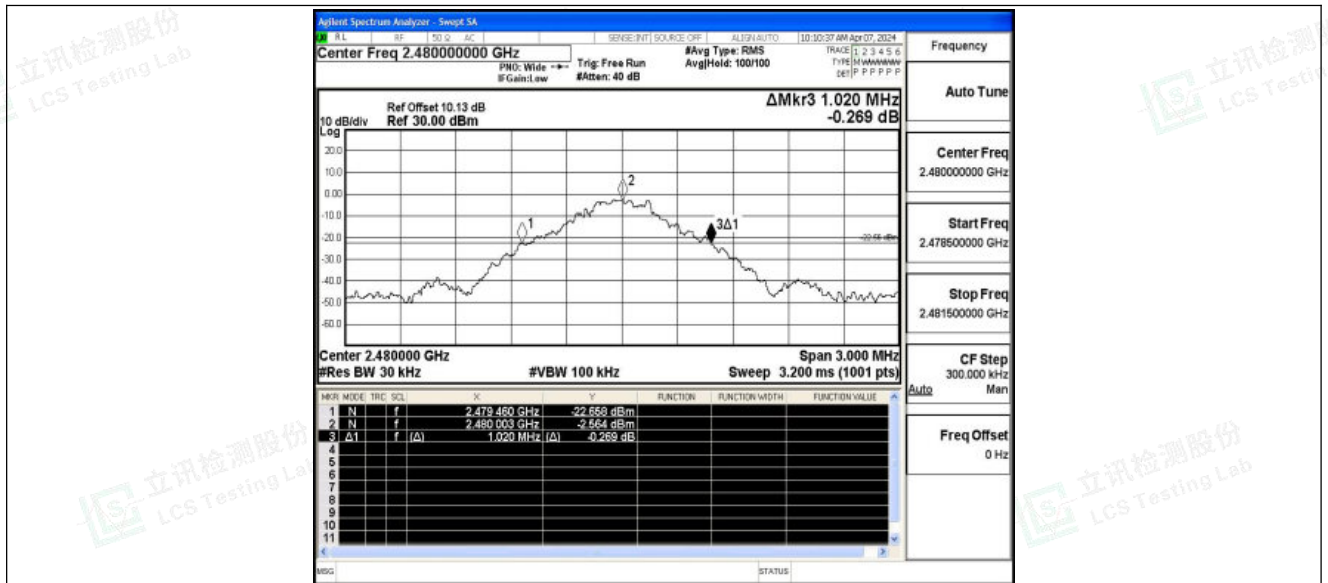


DH5_Ant1_2441

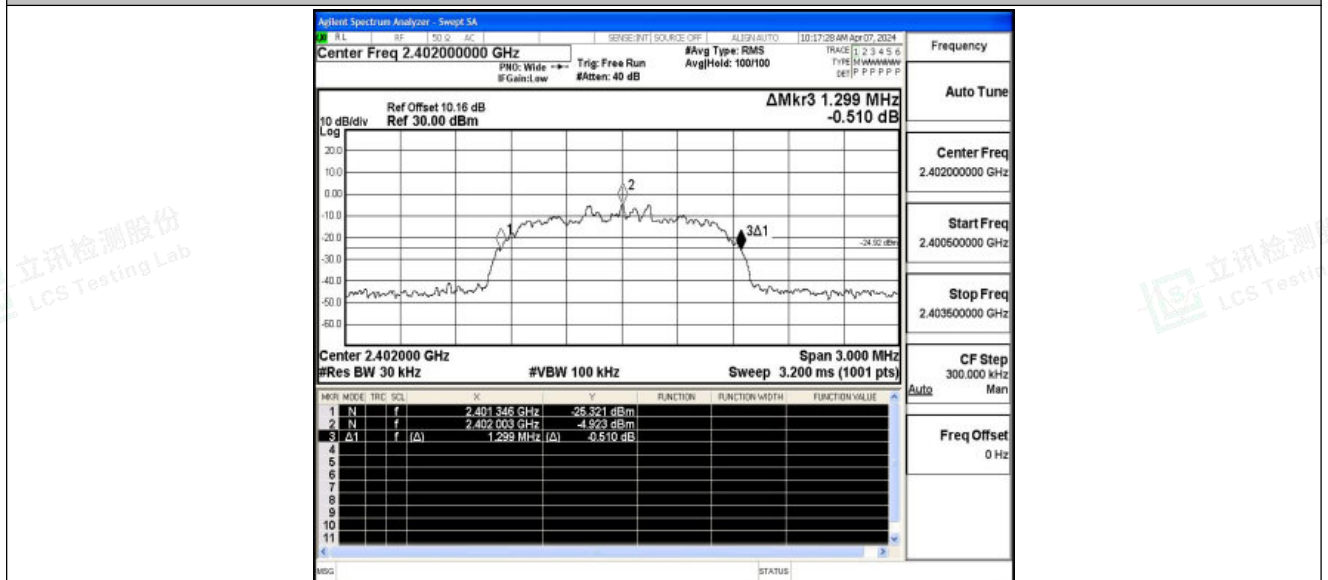


DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441

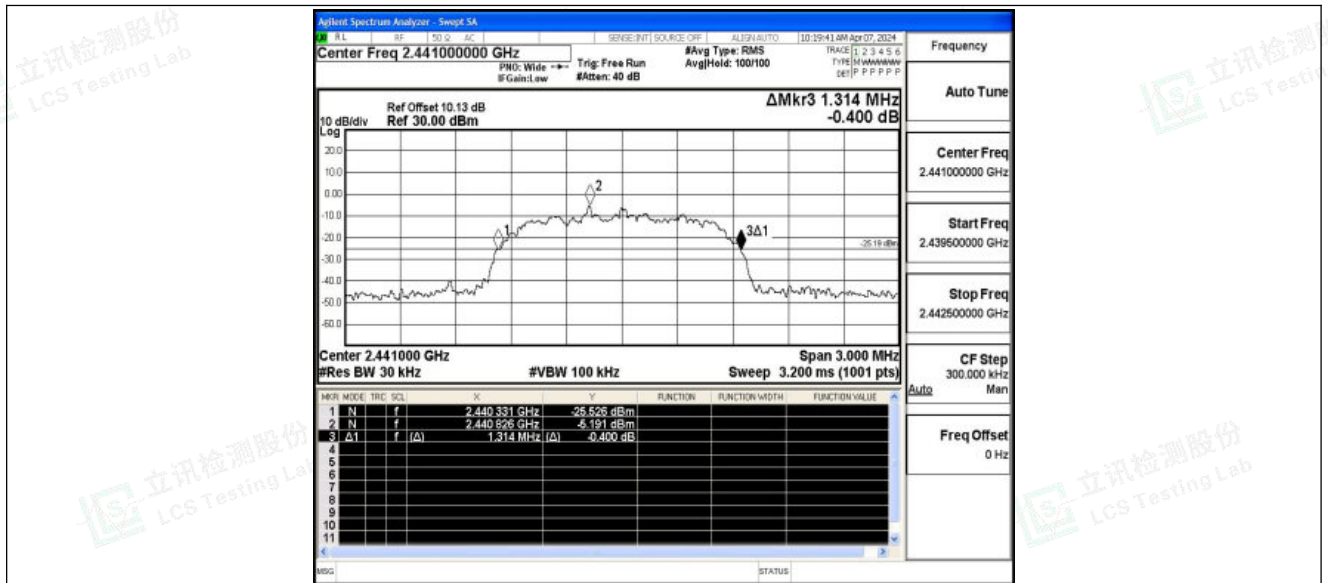


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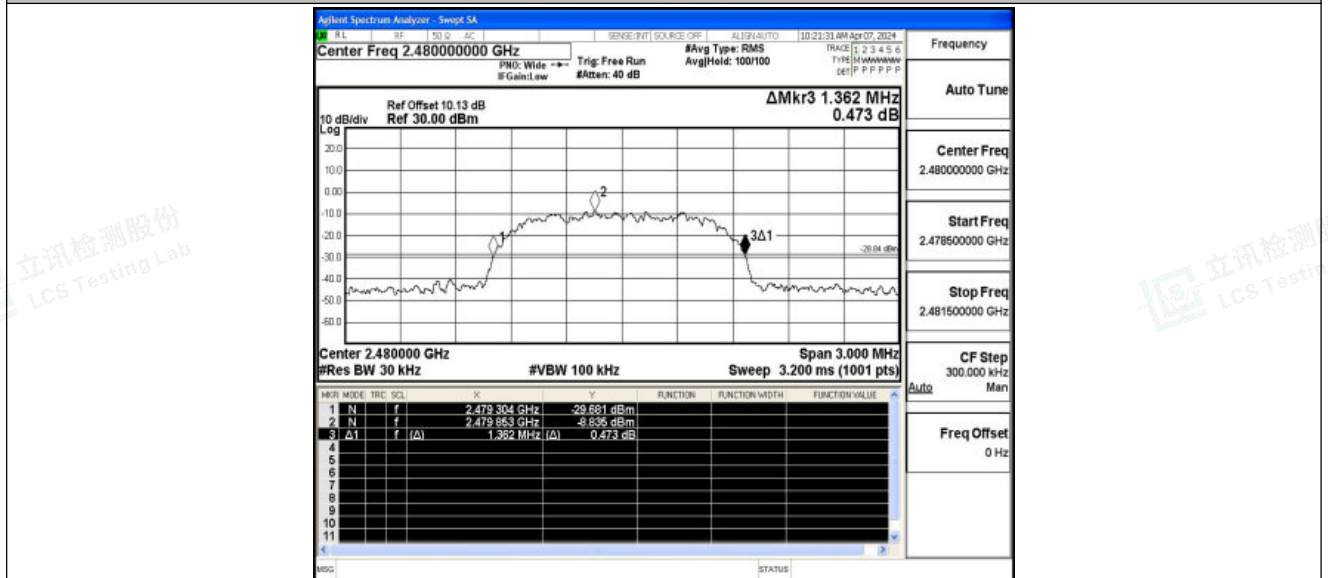
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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

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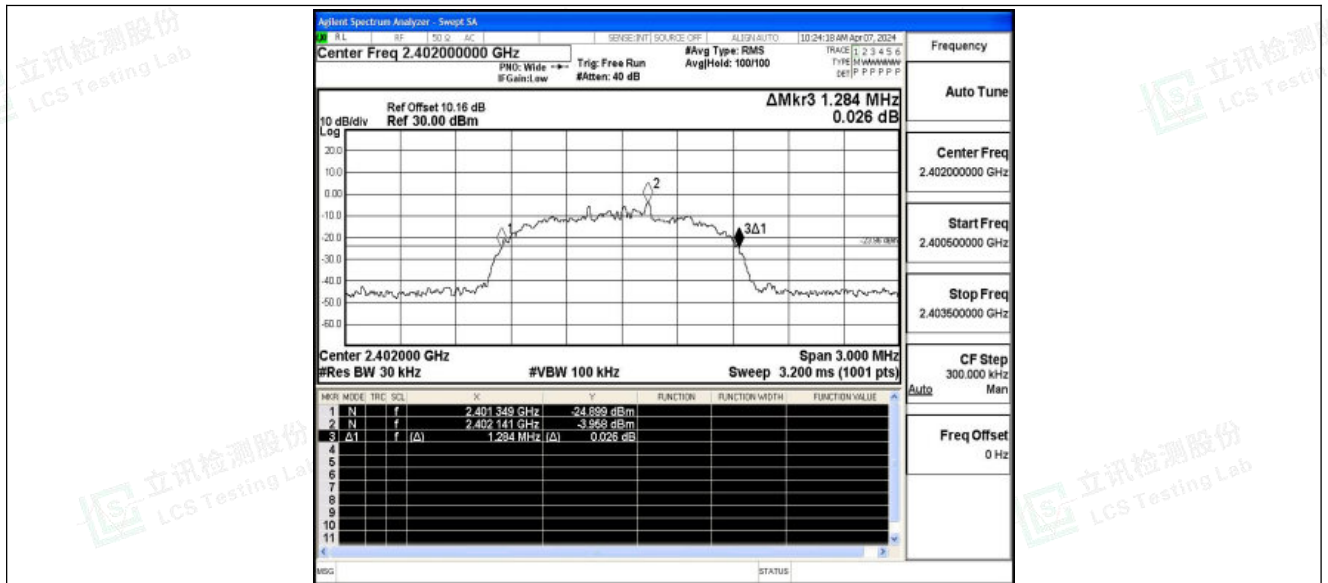


2DH5_Ant1_2480

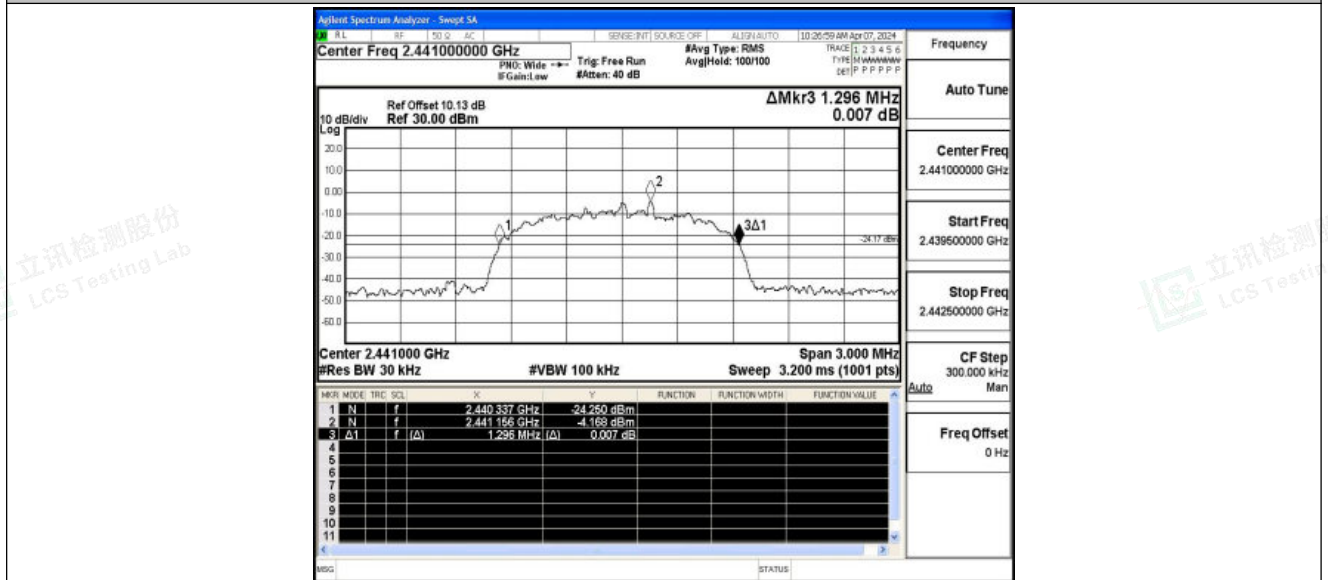


3DH5_Ant1_2402





3DH5_Ant1_2441



3DH5_Ant1_2480

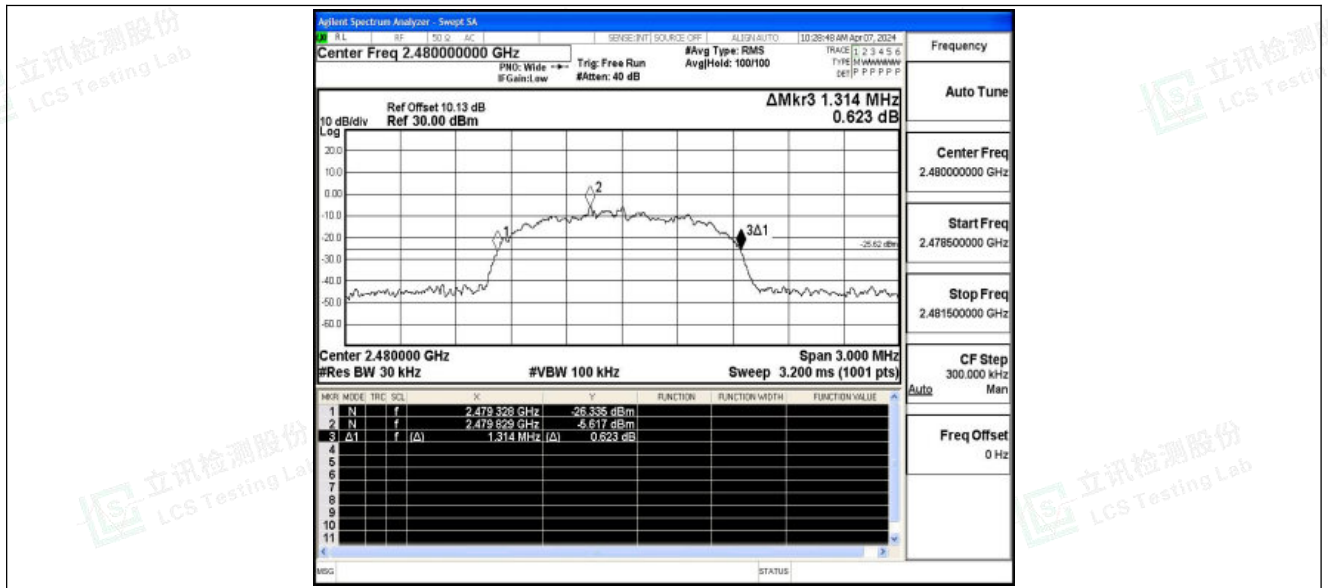


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A.2 Maximum conducted output power

Test Result Peak

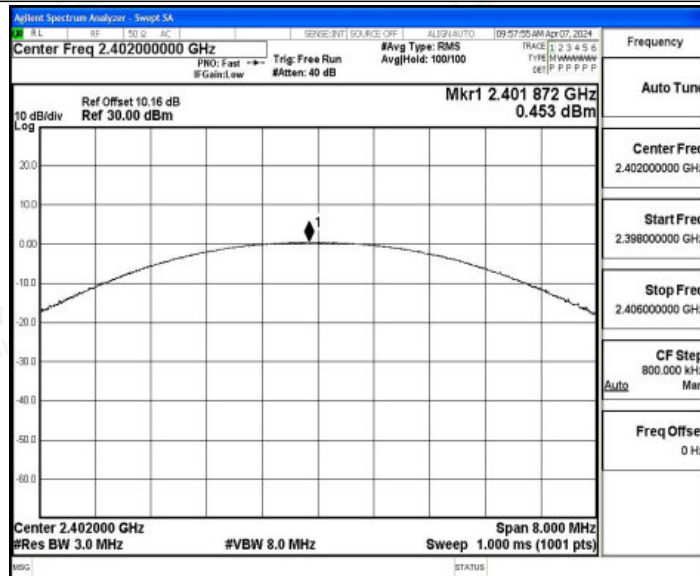
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.45	≤20.97	PASS
		2441	0.47	≤20.97	PASS
		2480	0.60	≤20.97	PASS
2DH5	Ant1	2402	-0.10	≤20.97	PASS
		2441	0.11	≤20.97	PASS
		2480	0.29	≤20.97	PASS
3DH5	Ant1	2402	0.01	≤20.97	PASS
		2441	0.31	≤20.97	PASS
		2480	0.35	≤20.97	PASS



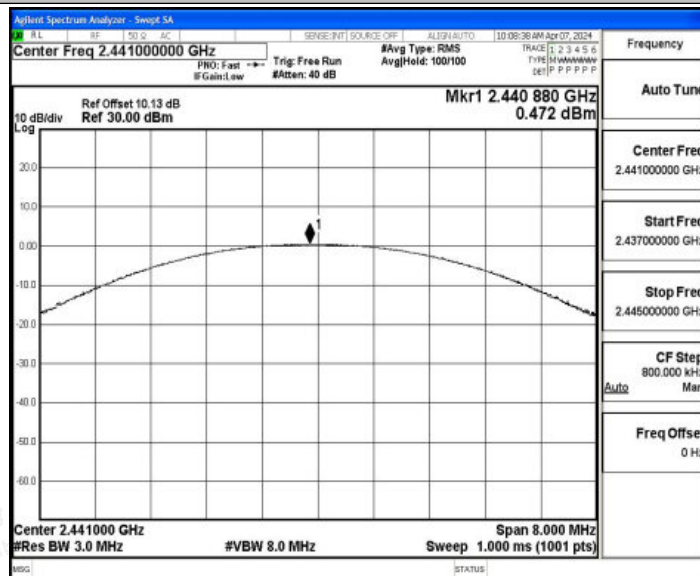


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

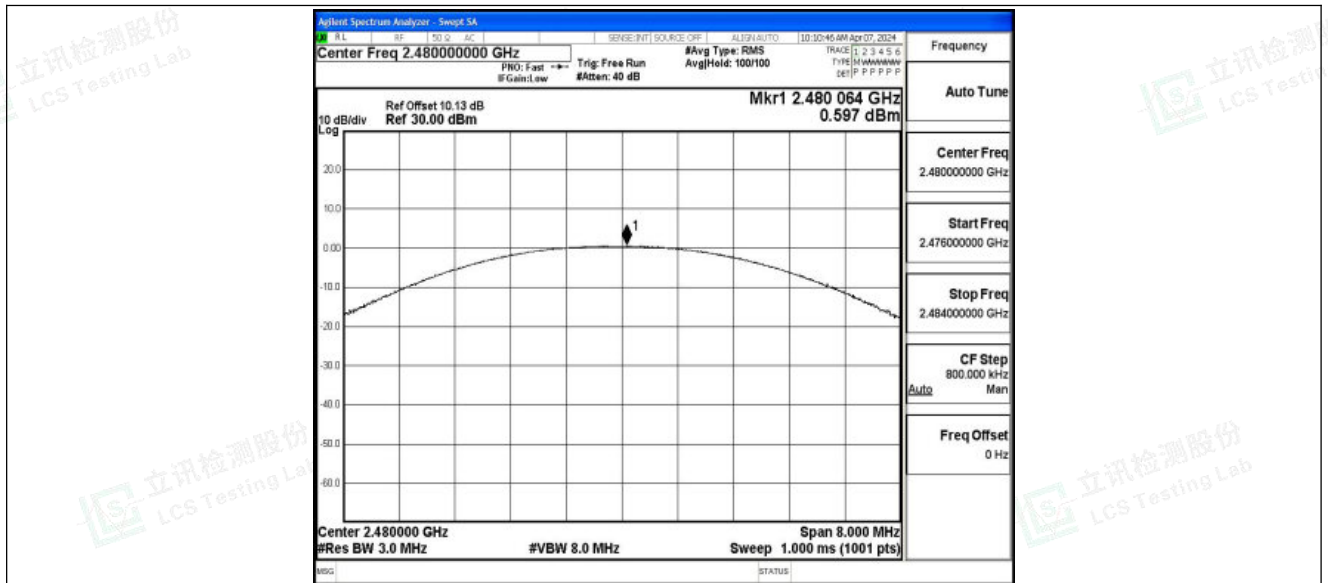


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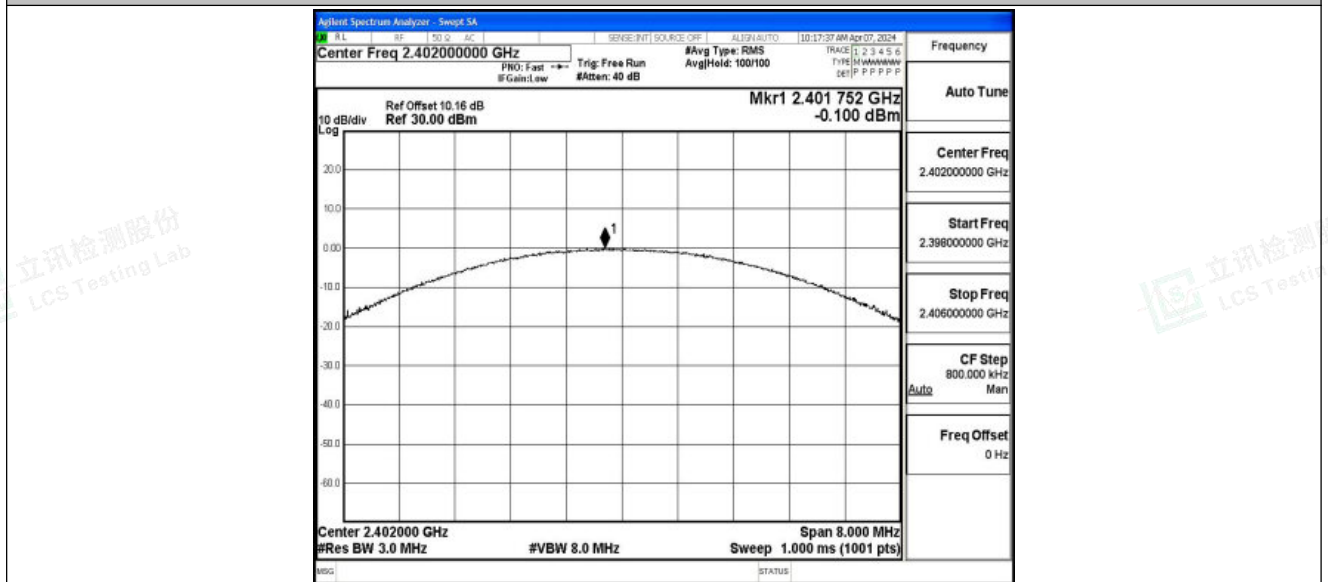
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2DH5_Ant1_2402



2DH5_Ant1_2441

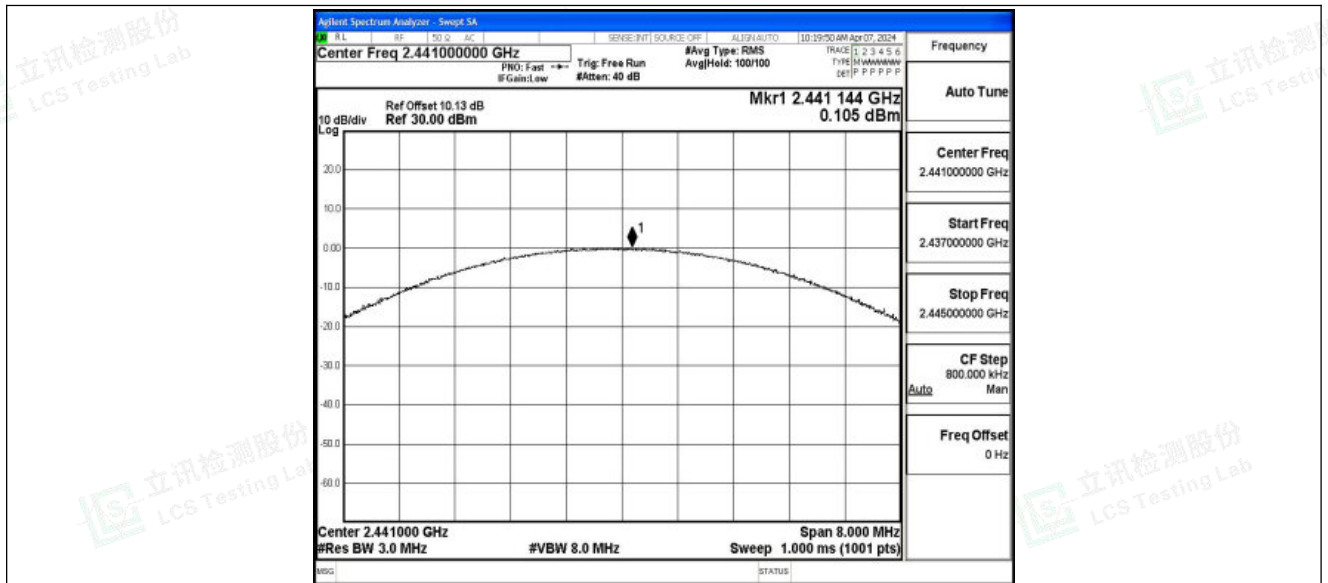


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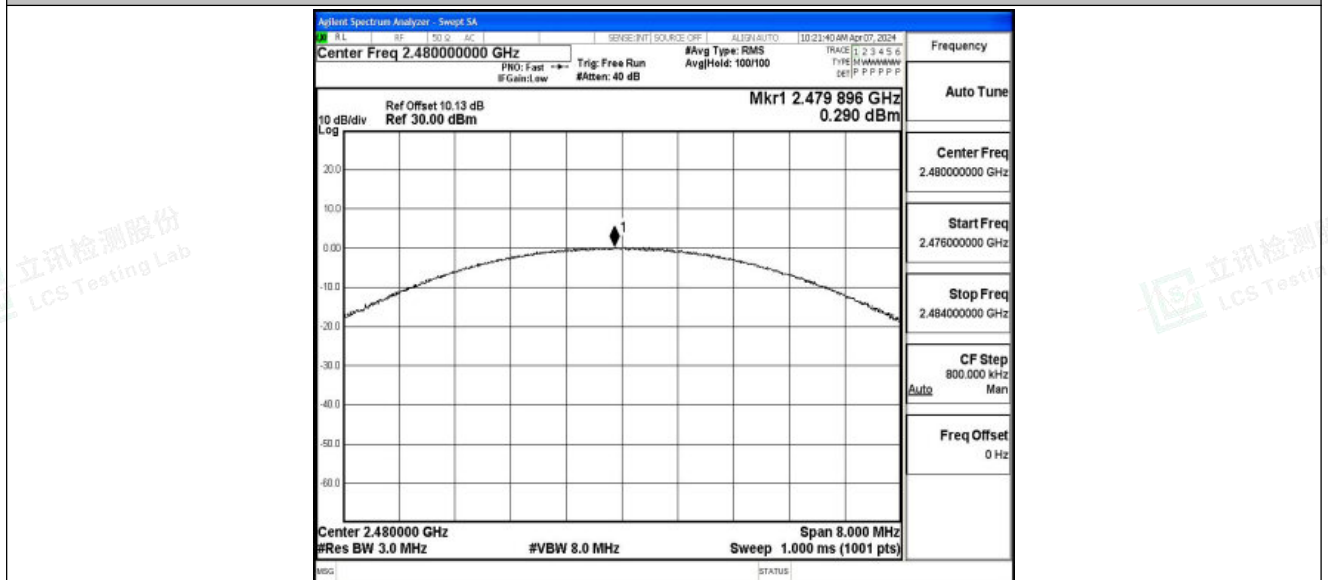
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2DH5_Ant1_2480



3DH5_Ant1_2402

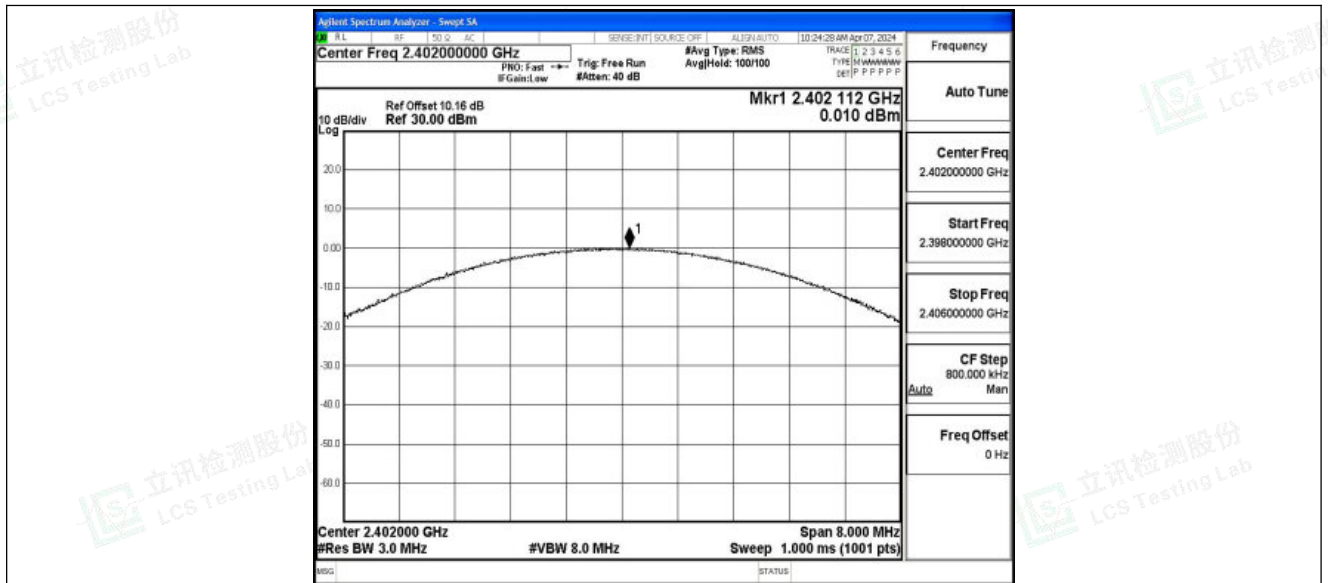


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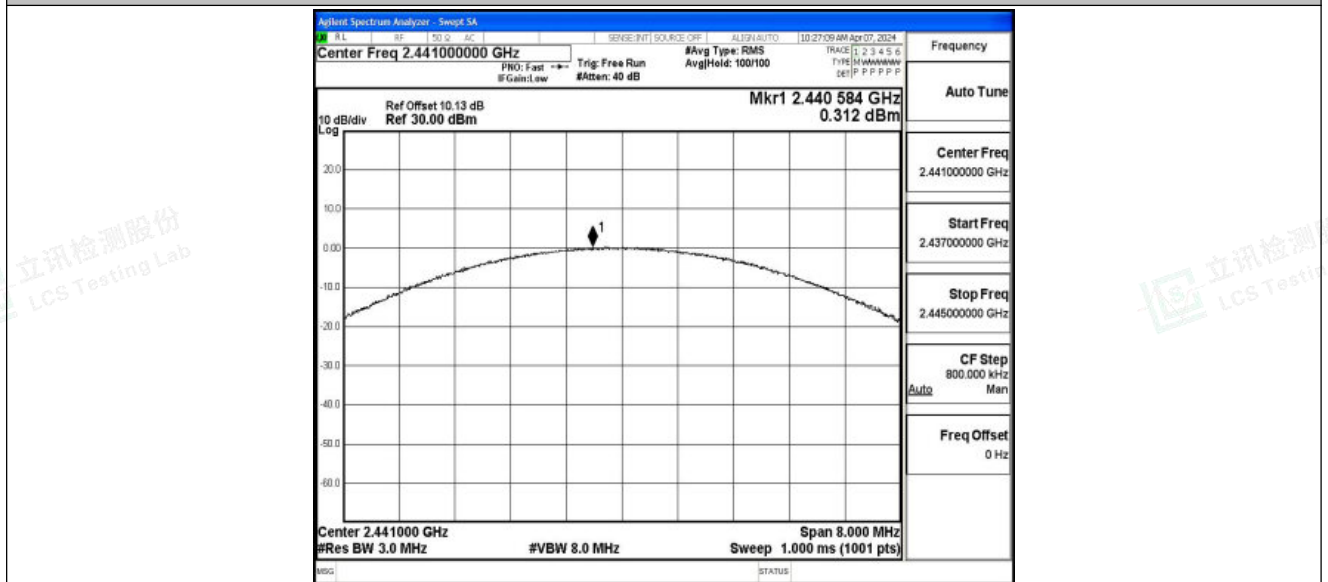
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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3DH5_Ant1_2441



3DH5_Ant1_2480

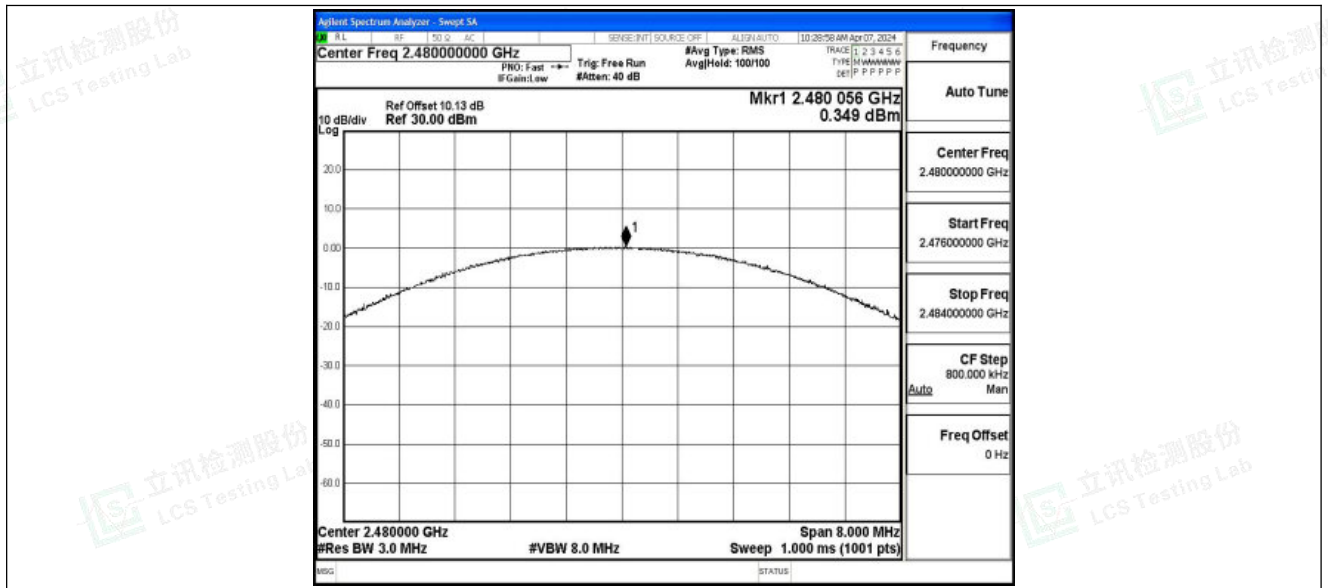


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A.3 Carrier frequency separation

Test Result

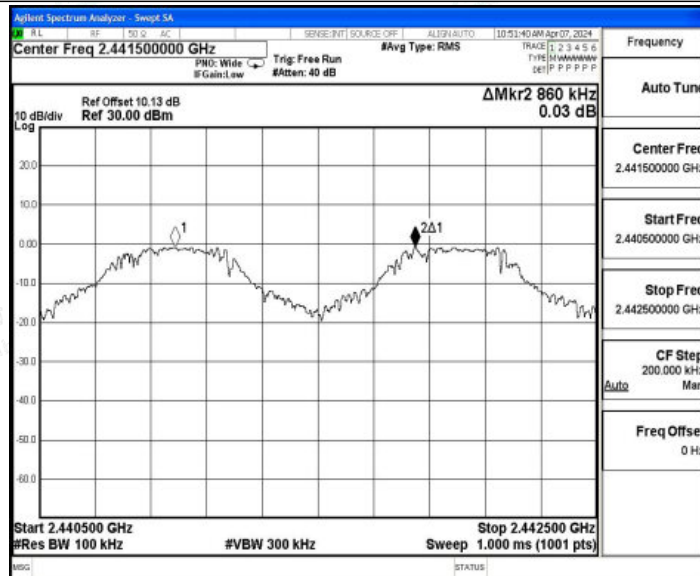
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.86	≥ 0.688	PASS
2DH5	Ant1	Hop	1.108	≥ 0.908	PASS
3DH5	Ant1	Hop	1.238	≥ 0.876	PASS



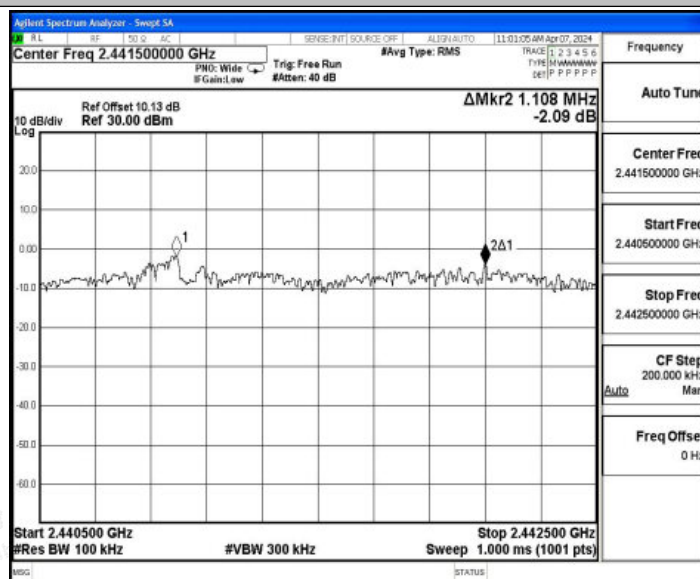


Test Graphs

DH5_Ant1_Hop

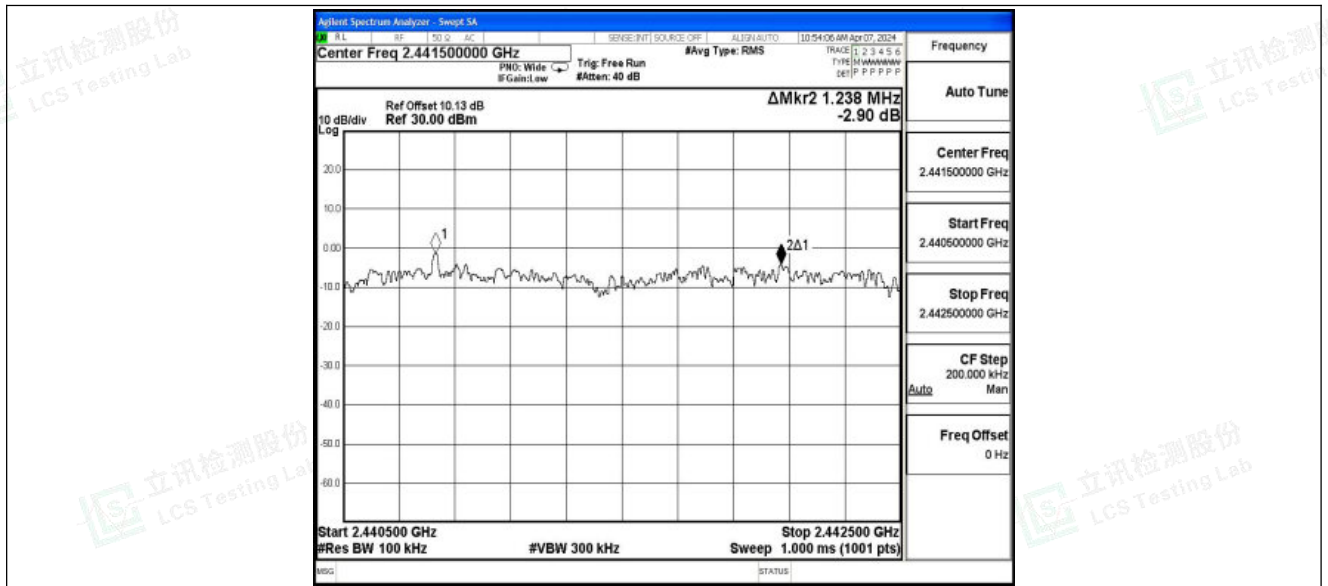


2DH5_Ant1_Hop



3DH5_Ant1_Hop







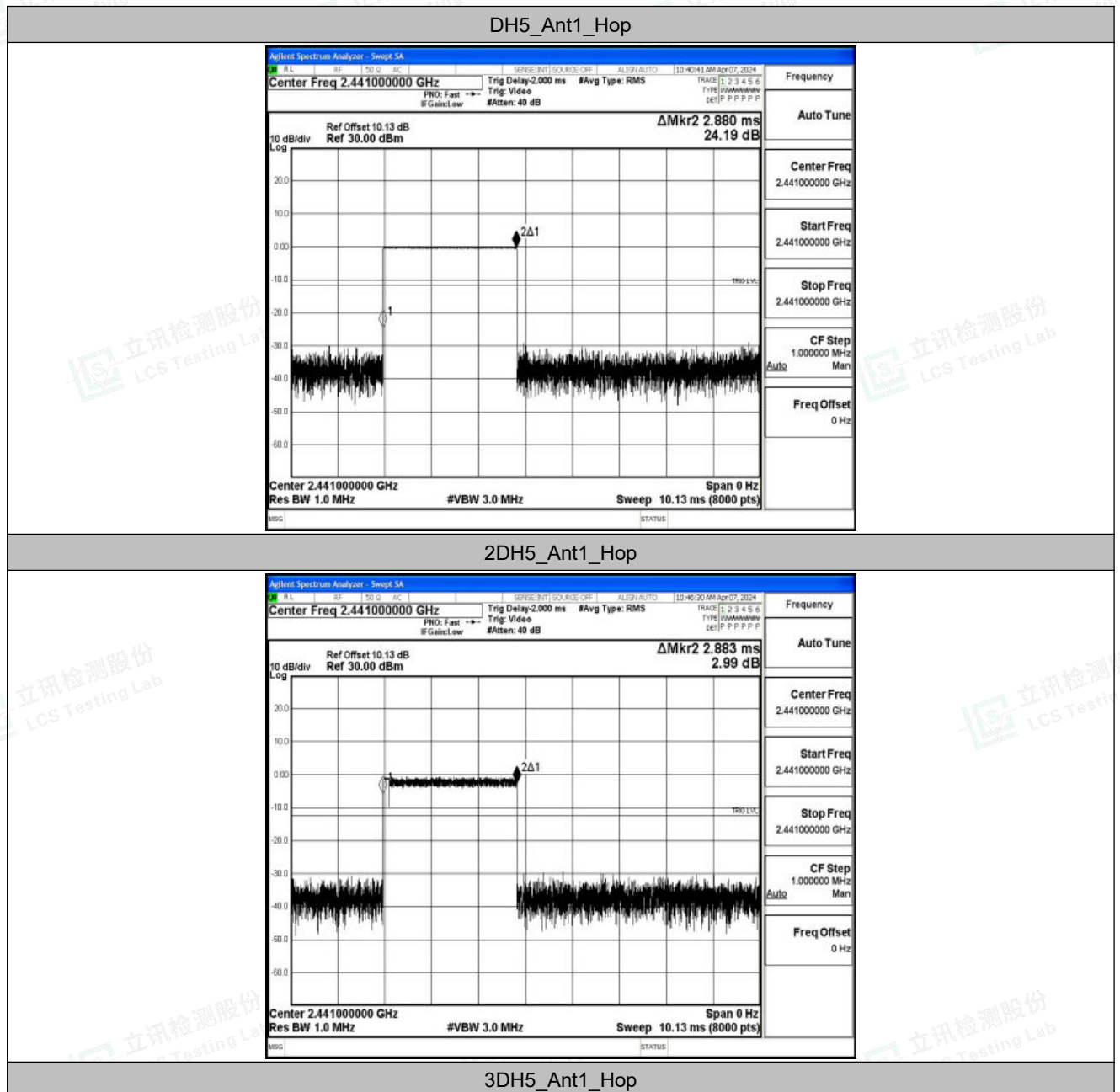
A.4 Time of occupancy

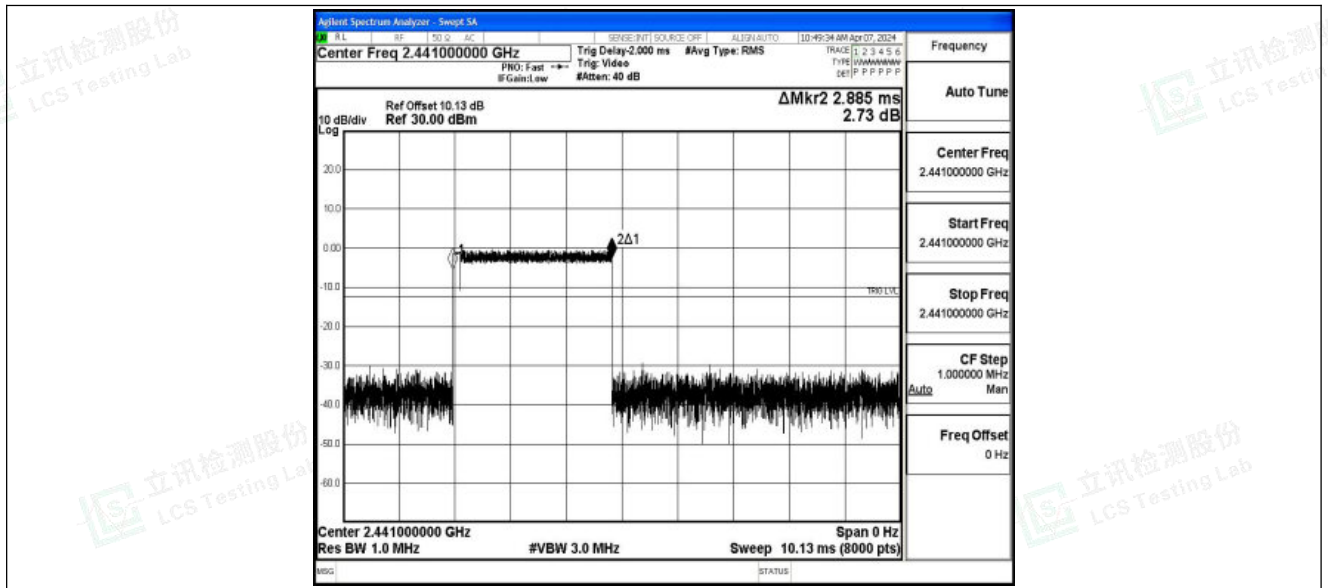
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



Test Graphs





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A.5 Number of hopping channels

Test Result

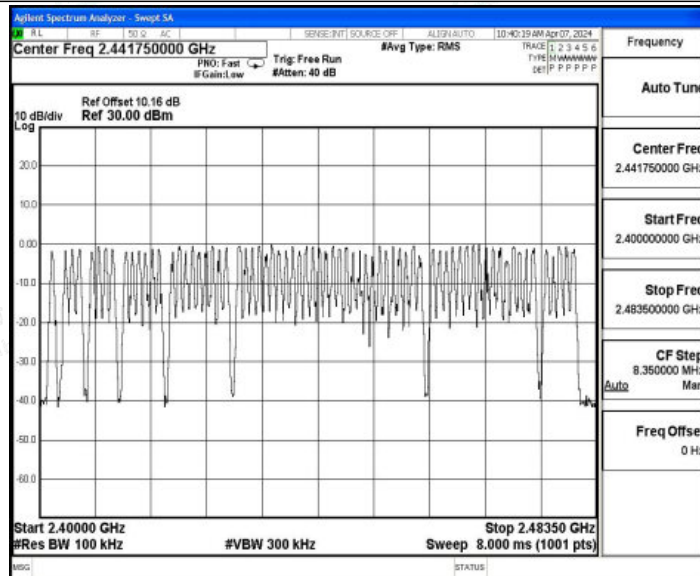
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



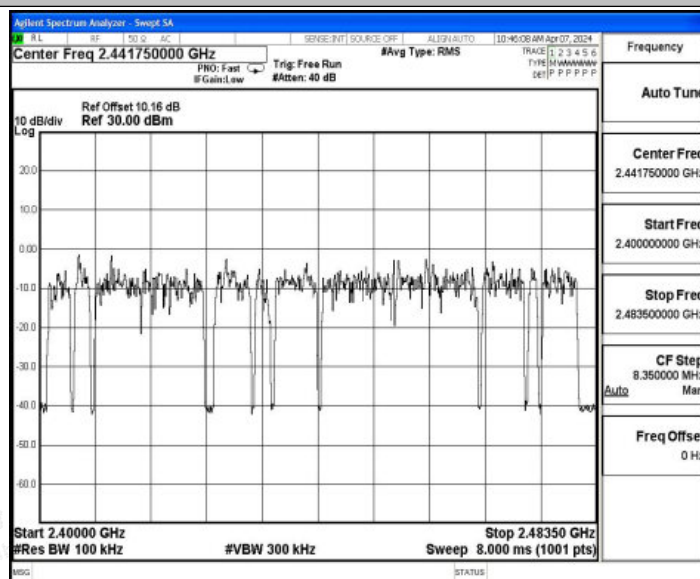


Test Graphs

DH5_Ant1_Hop

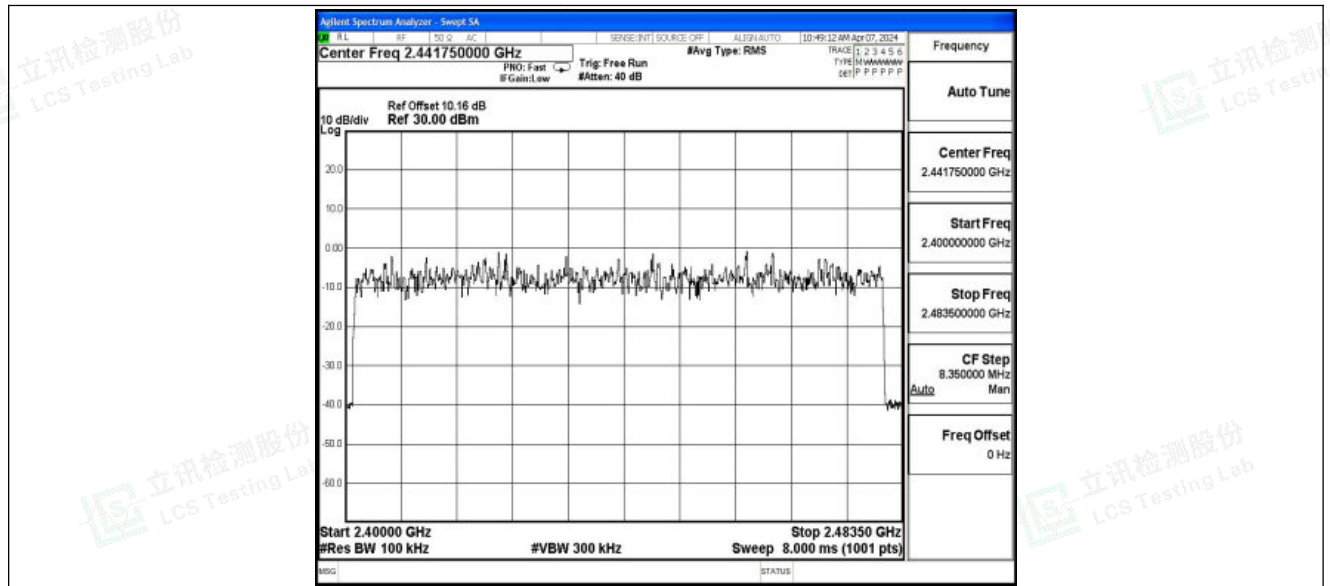


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

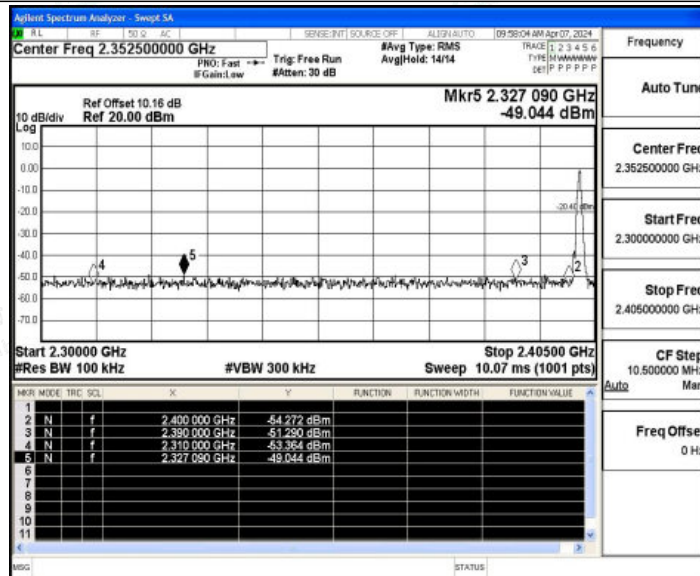
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.40	-49.04	≤ -20.4	PASS
		High	2480	-0.08	-49.16	≤ -20.08	PASS
		Low	Hop_2402	-1.08	-47.82	≤ -21.08	PASS
		High	Hop_2480	-0.35	-47.35	≤ -20.35	PASS
2DH5	Ant1	Low	2402	-2.47	-48.63	≤ -22.47	PASS
		High	2480	-1.19	-48.46	≤ -21.19	PASS
		Low	Hop_2402	-5.51	-47.64	≤ -25.51	PASS
		High	Hop_2480	-1.33	-47.4	≤ -21.33	PASS
3DH5	Ant1	Low	2402	-2.09	-48.73	≤ -22.09	PASS
		High	2480	-1.70	-48.21	≤ -21.7	PASS
		Low	Hop_2402	-4.62	-48.28	≤ -24.62	PASS
		High	Hop_2480	-1.96	-32.5	≤ -21.96	PASS



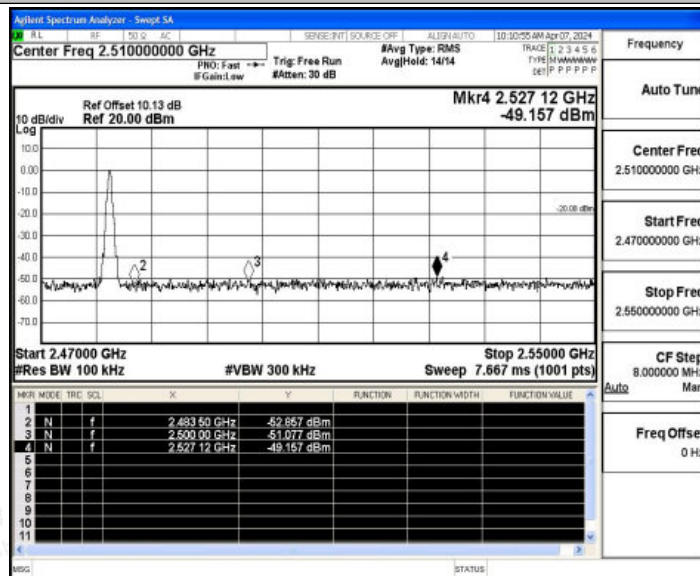


Test Graphs

DH5_Ant1_Low_2402

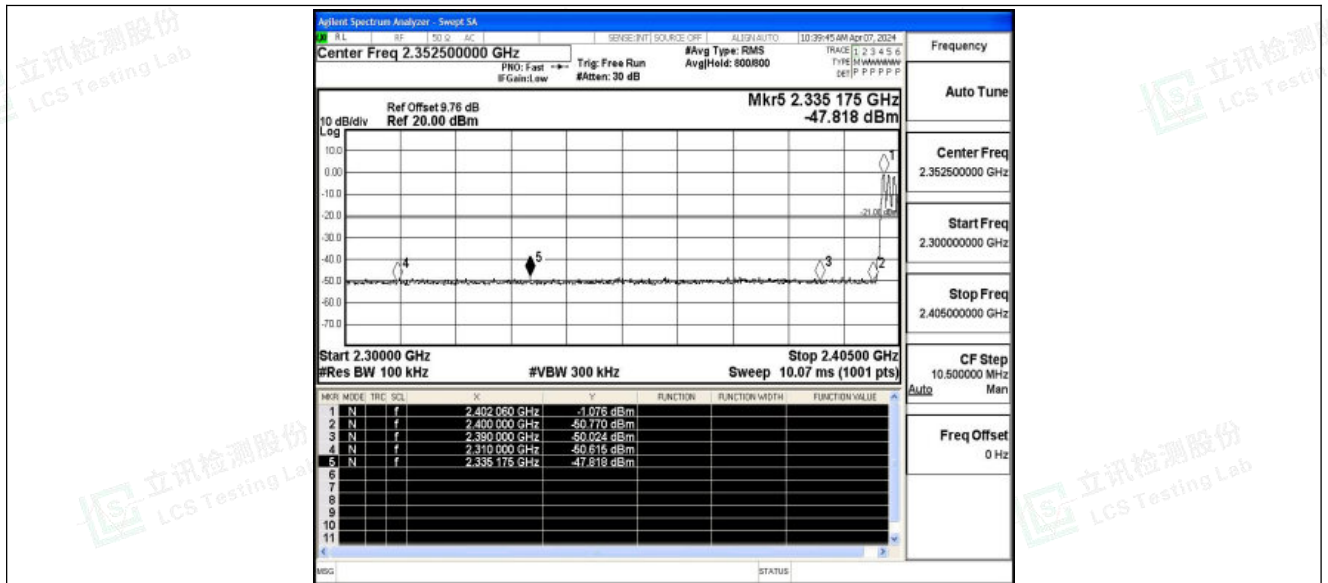


DH5_Ant1_High_2480

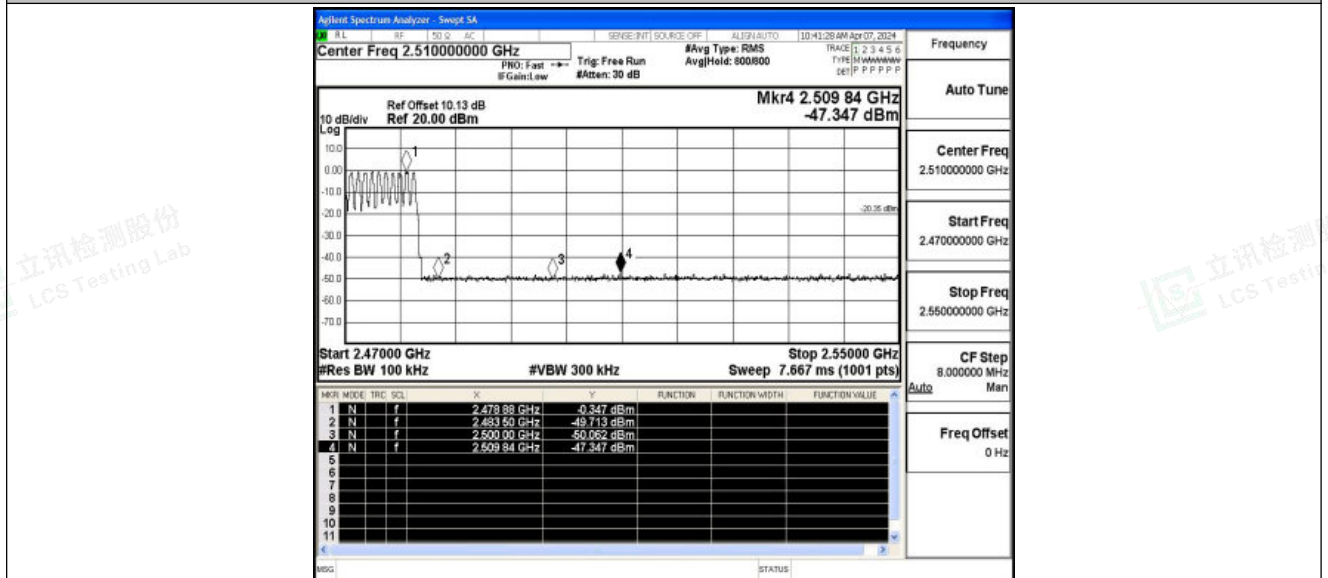


DH5_Ant1_Low_Hop_2402





DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

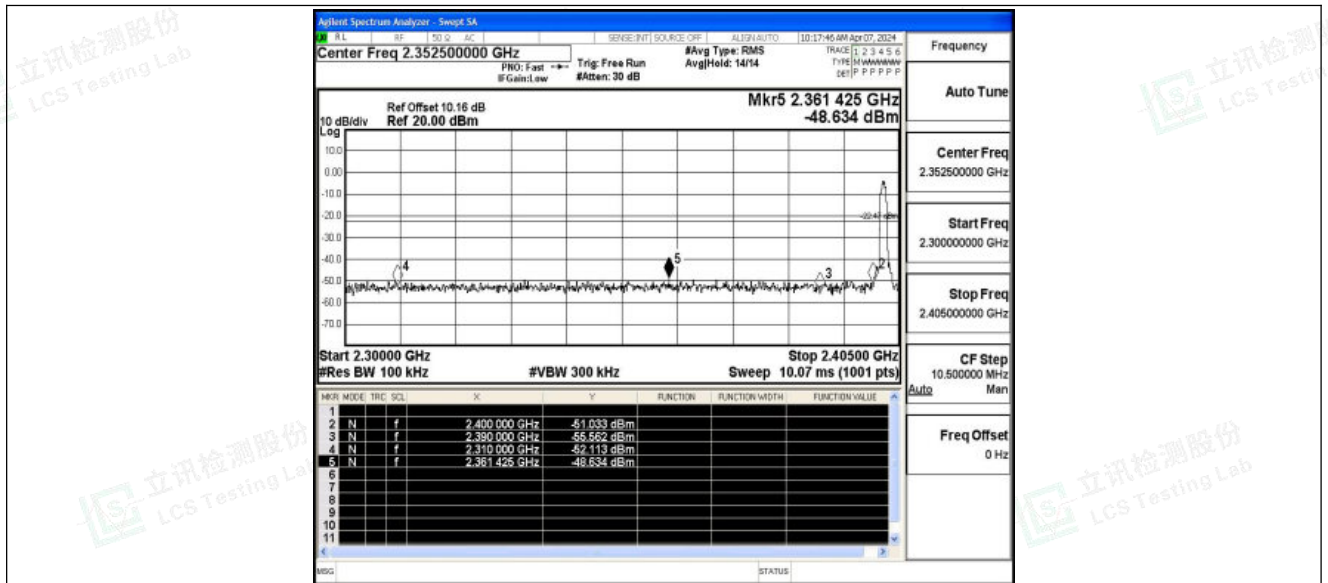


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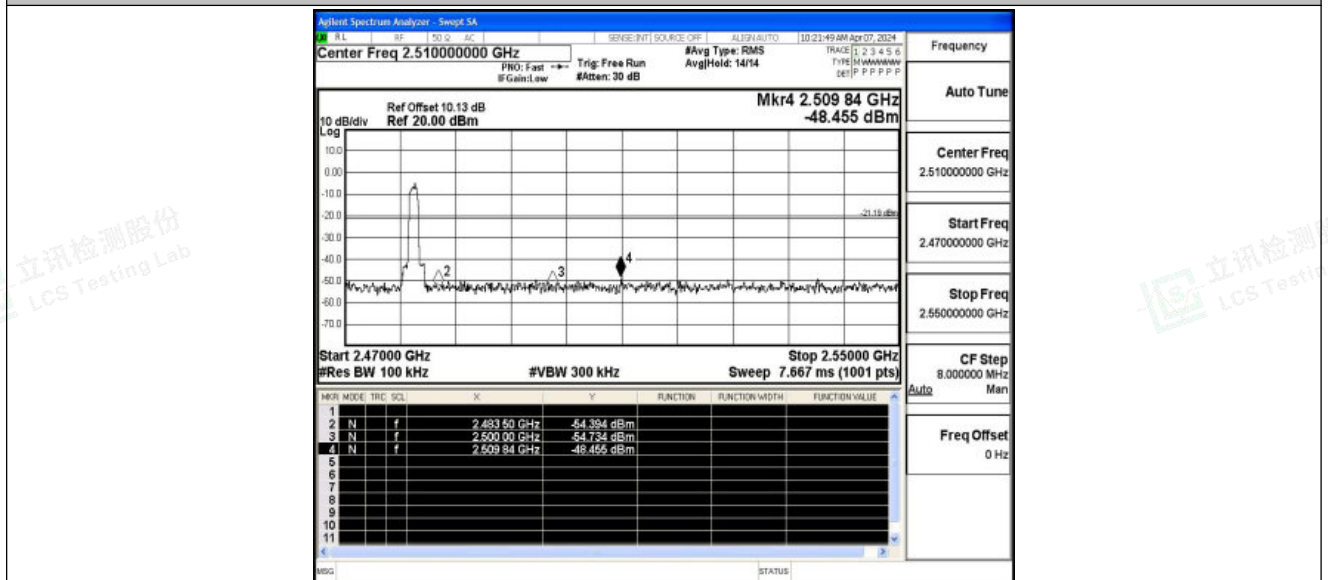
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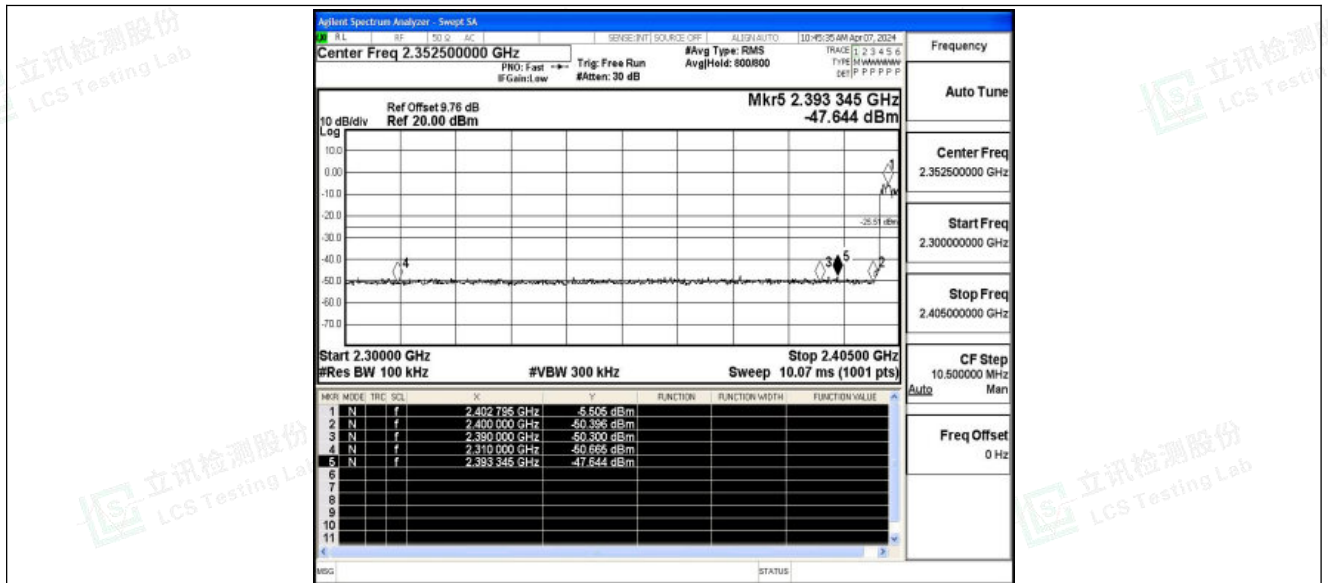


2DH5_Ant1_High_2480

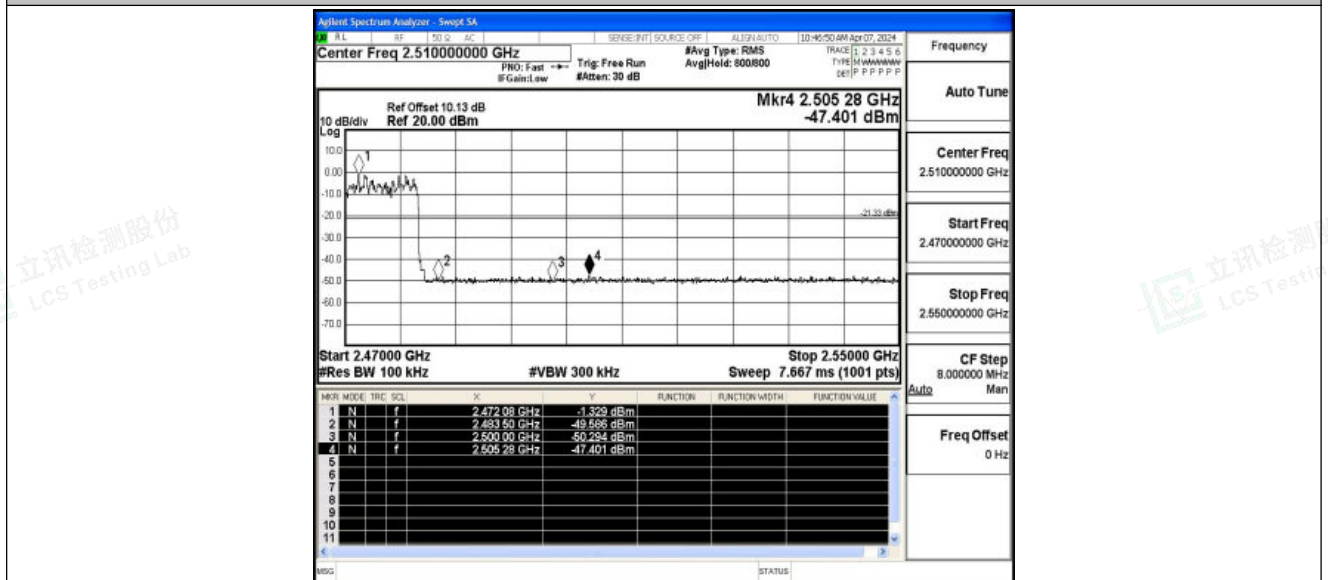


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

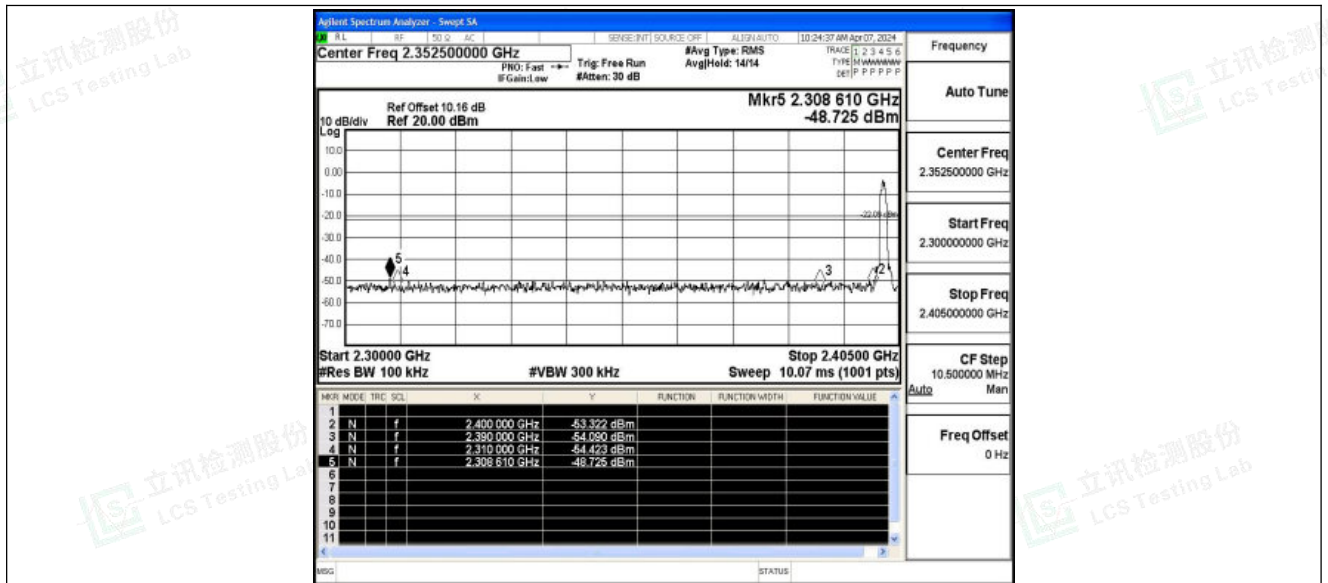


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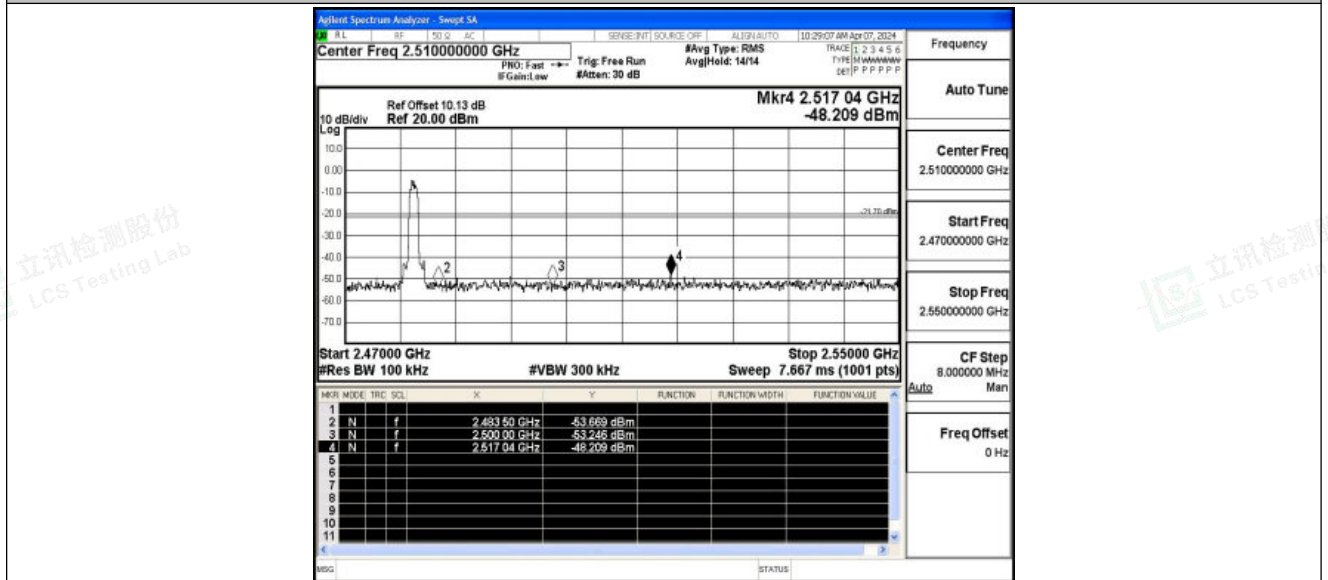
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

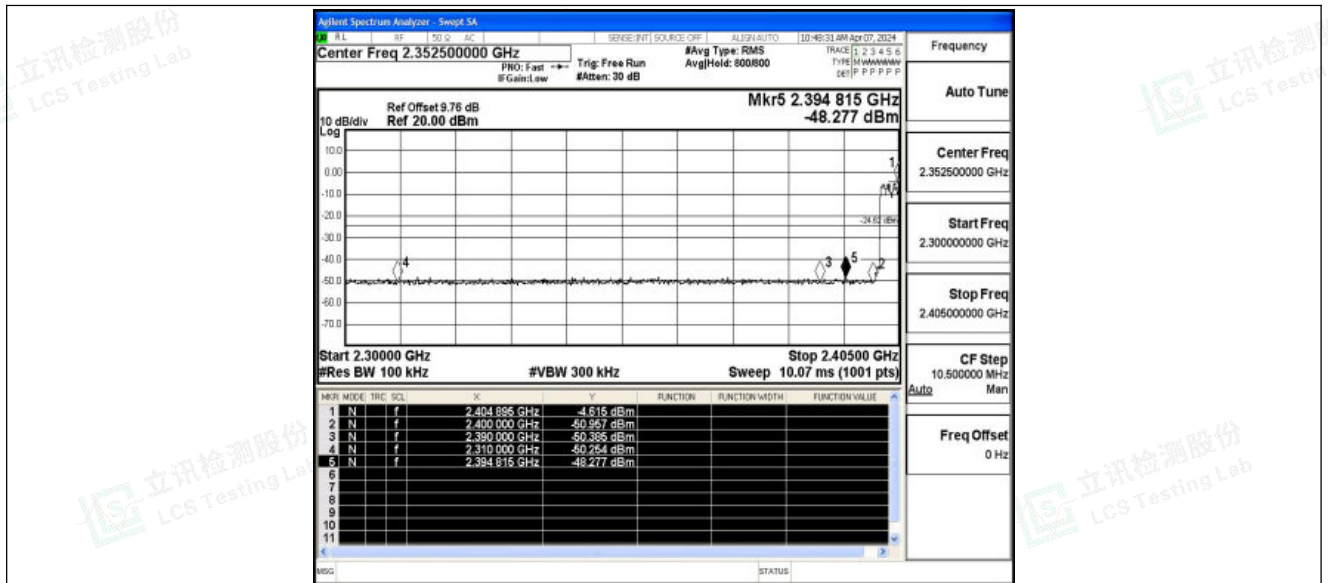


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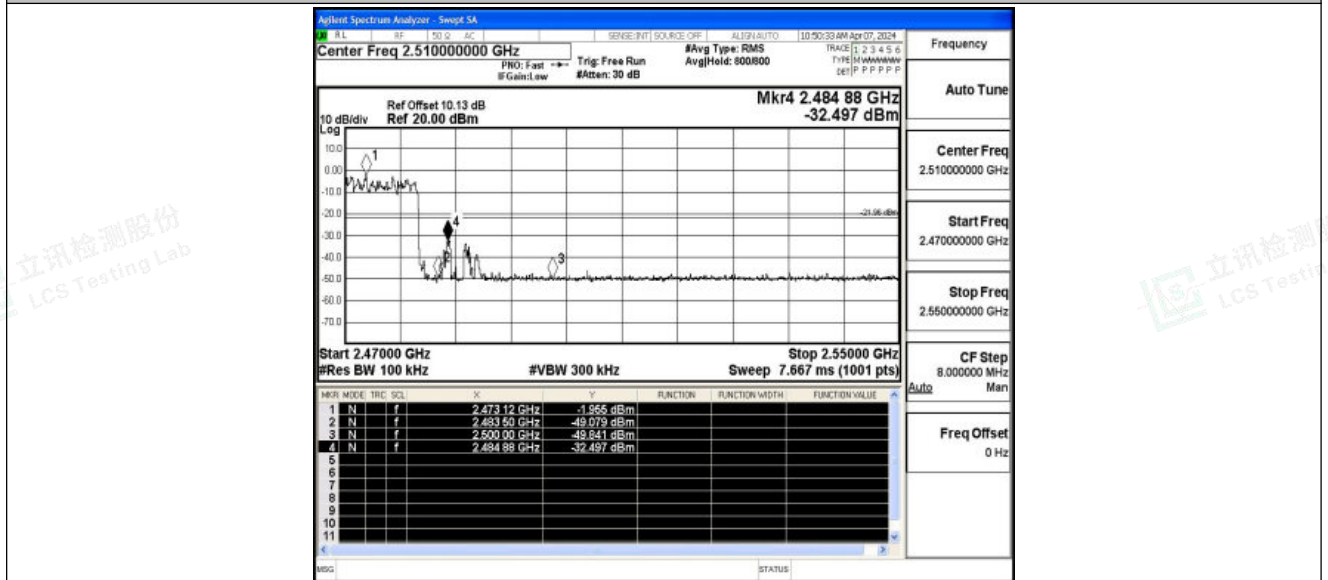
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-0.40	-59.53	≤ -20.4	PASS
			1000~26500	-0.40	-47.45	≤ -20.4	PASS
		2441	30~1000	-0.25	-59.96	≤ -20.25	PASS
			1000~26500	-0.25	-46.85	≤ -20.25	PASS
		2480	30~1000	-0.08	-59.71	≤ -20.08	PASS
			1000~26500	-0.08	-47.38	≤ -20.08	PASS
2DH5	Ant1	2402	30~1000	-2.47	-59.7	≤ -22.47	PASS
			1000~26500	-2.47	-46.37	≤ -22.47	PASS
		2441	30~1000	-1.23	-58.24	≤ -21.23	PASS
			1000~26500	-1.23	-46.44	≤ -21.23	PASS
		2480	30~1000	-1.19	-59.39	≤ -21.19	PASS
			1000~26500	-1.19	-47.02	≤ -21.19	PASS
3DH5	Ant1	2402	30~1000	-2.09	-59.57	≤ -22.09	PASS
			1000~26500	-2.09	-47.34	≤ -22.09	PASS
		2441	30~1000	-3.23	-60.1	≤ -23.23	PASS
			1000~26500	-3.23	-47.08	≤ -23.23	PASS
		2480	30~1000	-1.70	-59.72	≤ -21.7	PASS
			1000~26500	-1.70	-46.62	≤ -21.7	PASS



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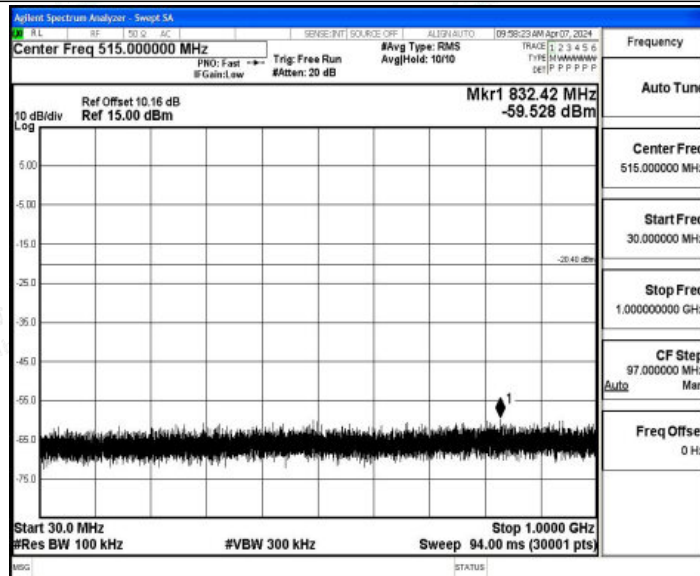
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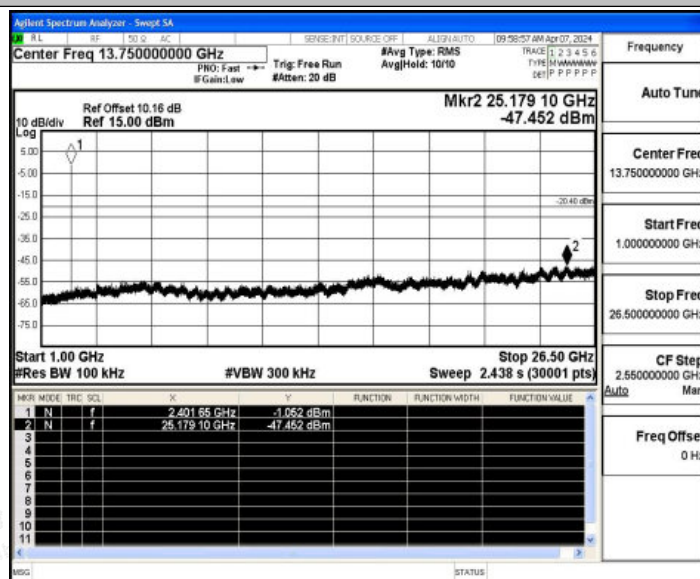


Test Graphs

DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_30~1000

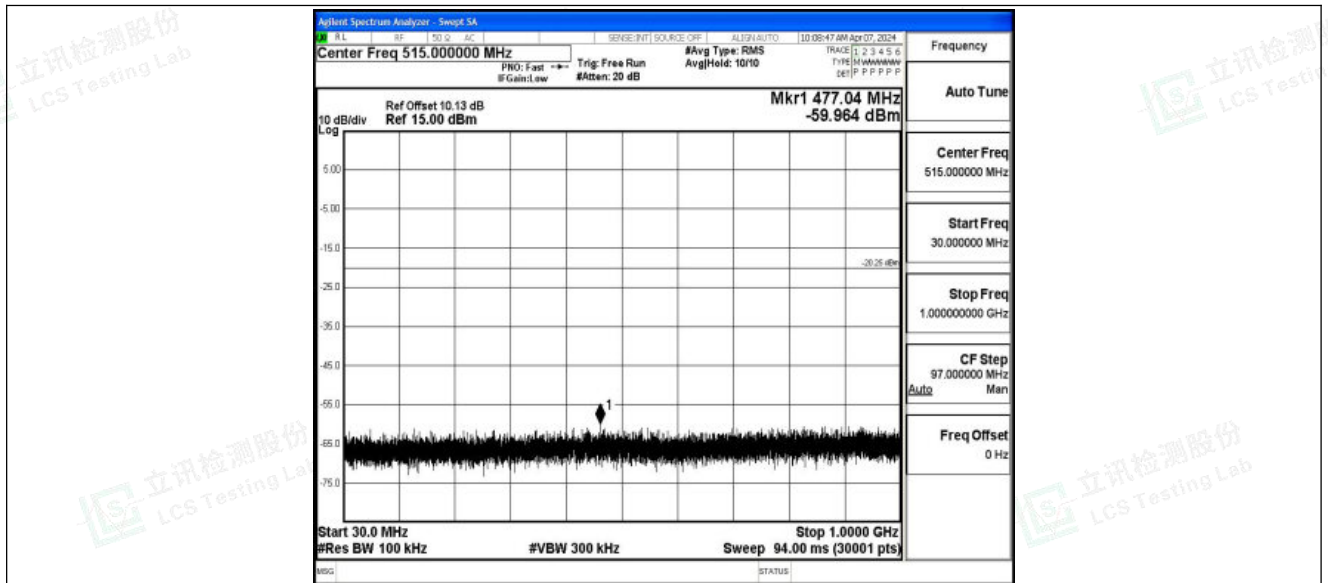


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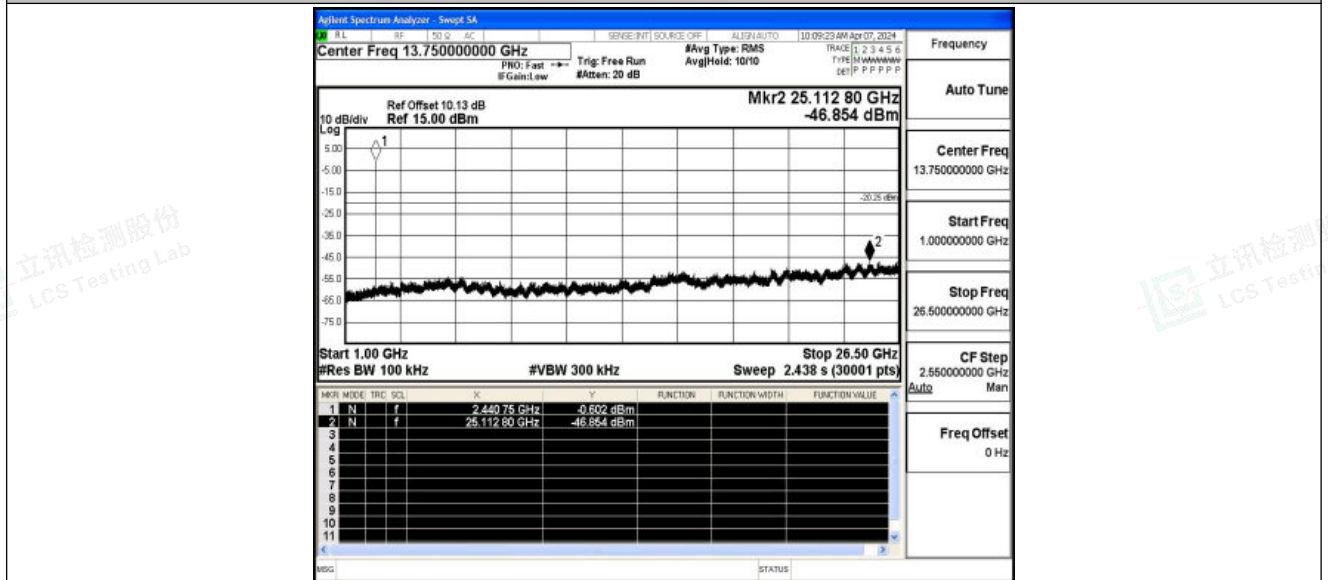
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

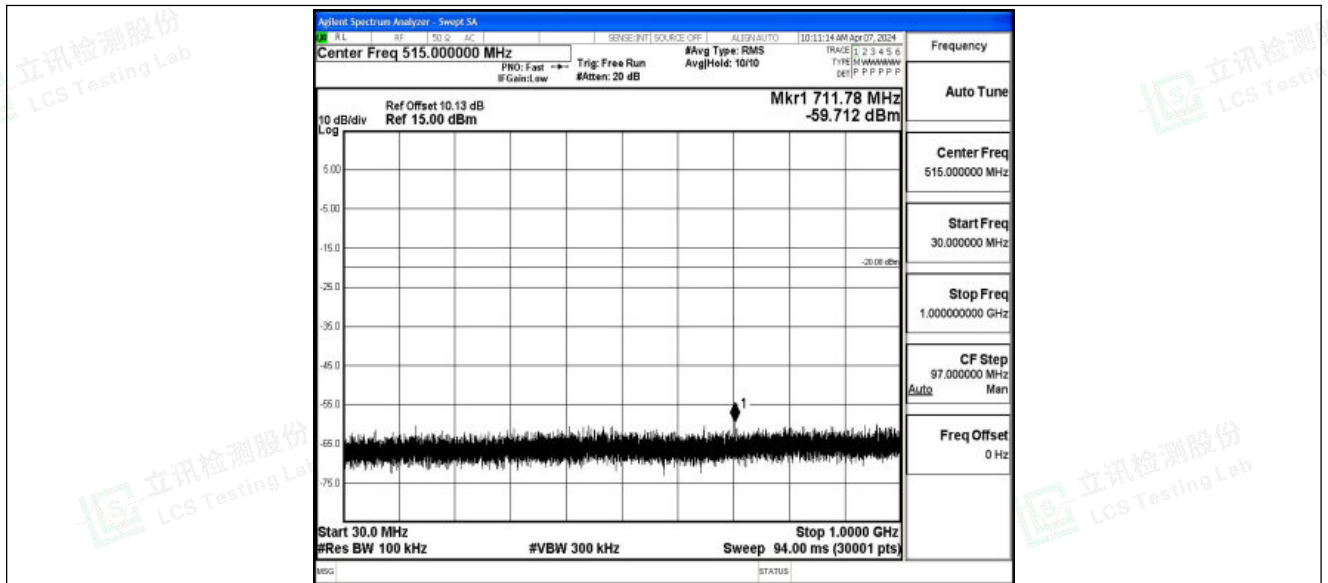


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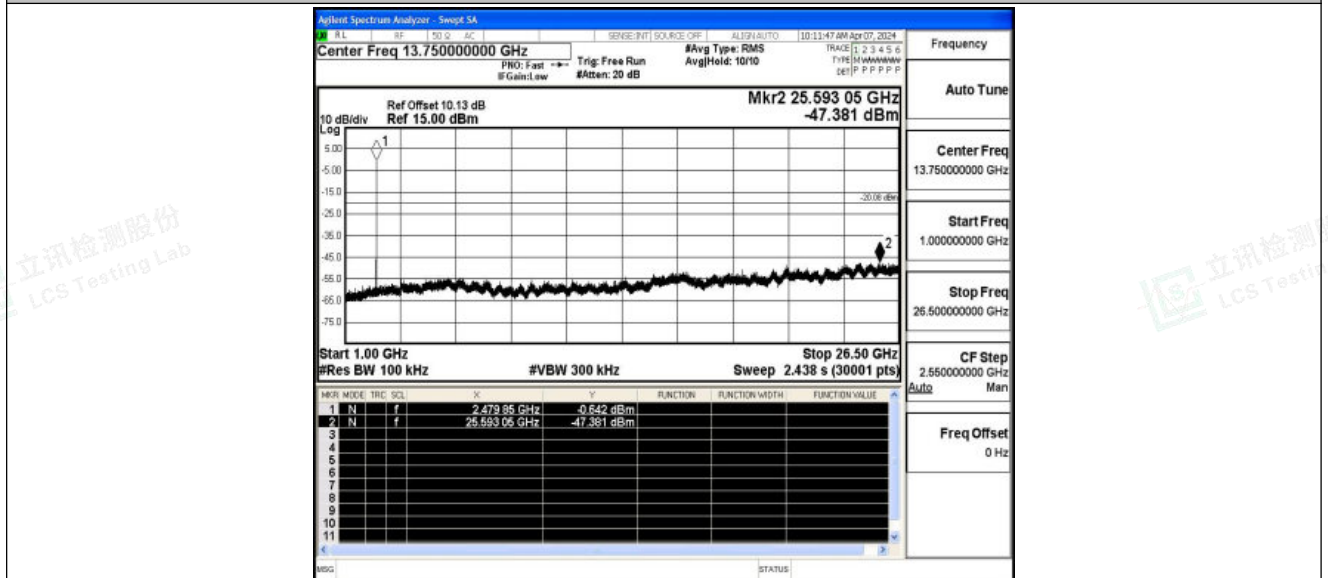
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

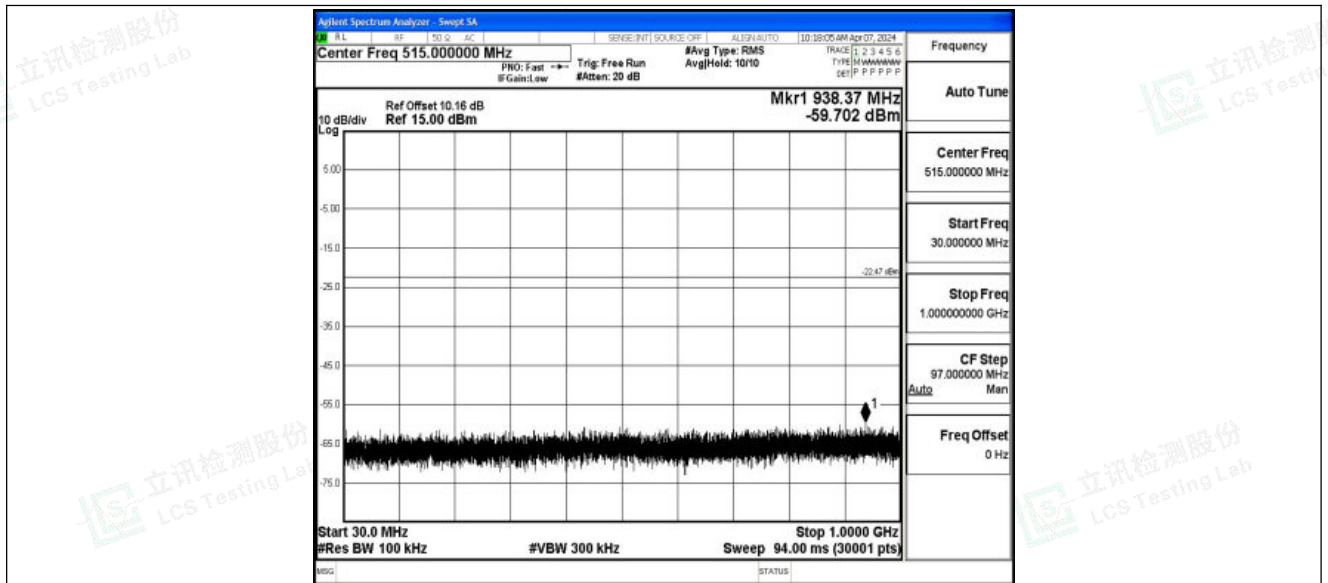


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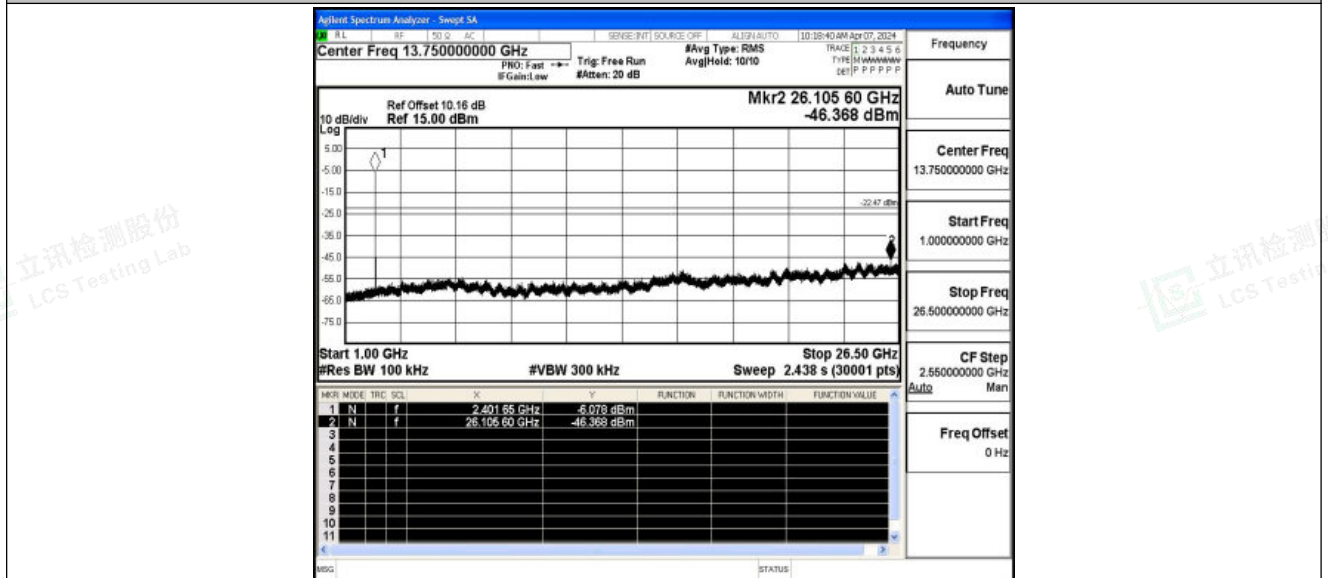
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_30~1000

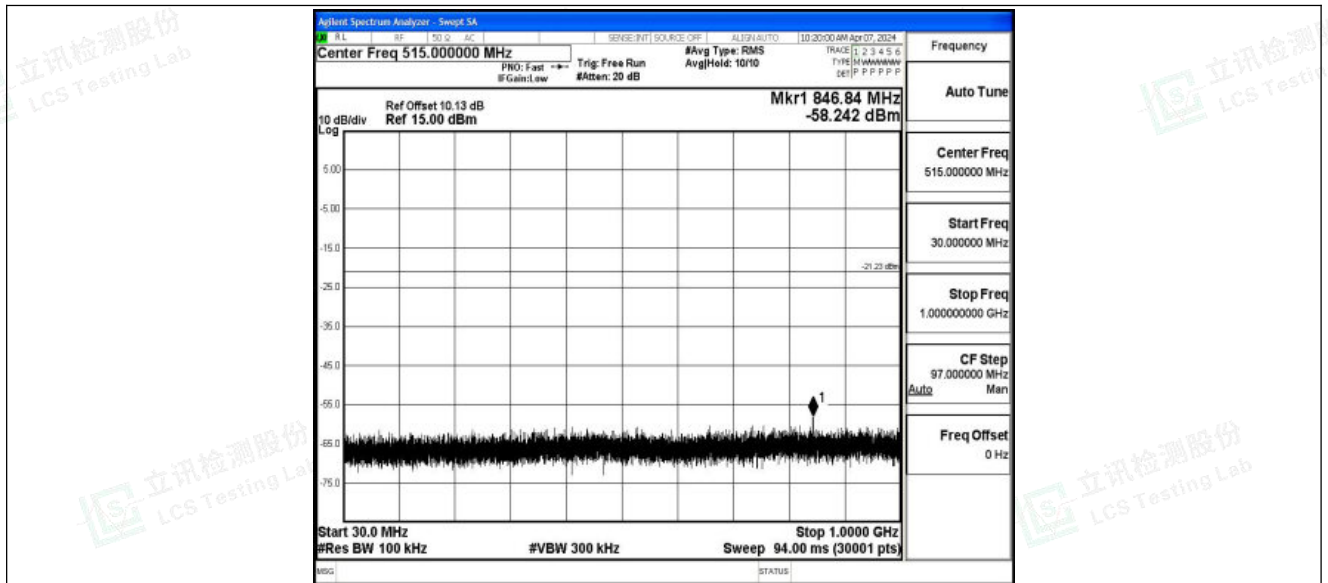


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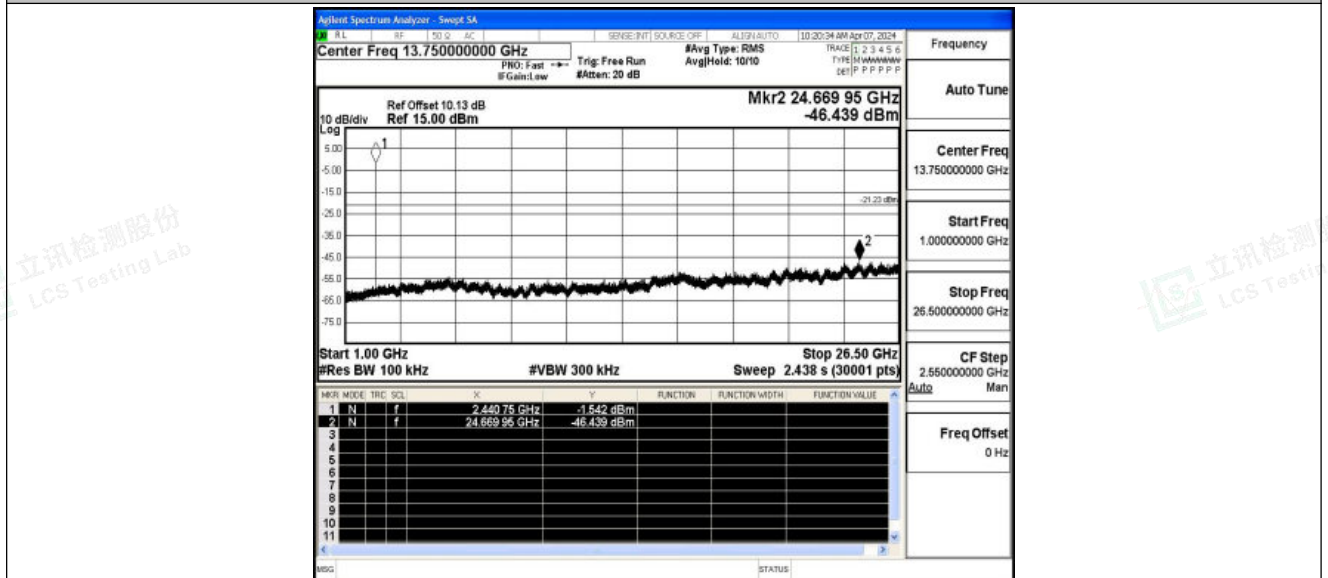
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_30~1000

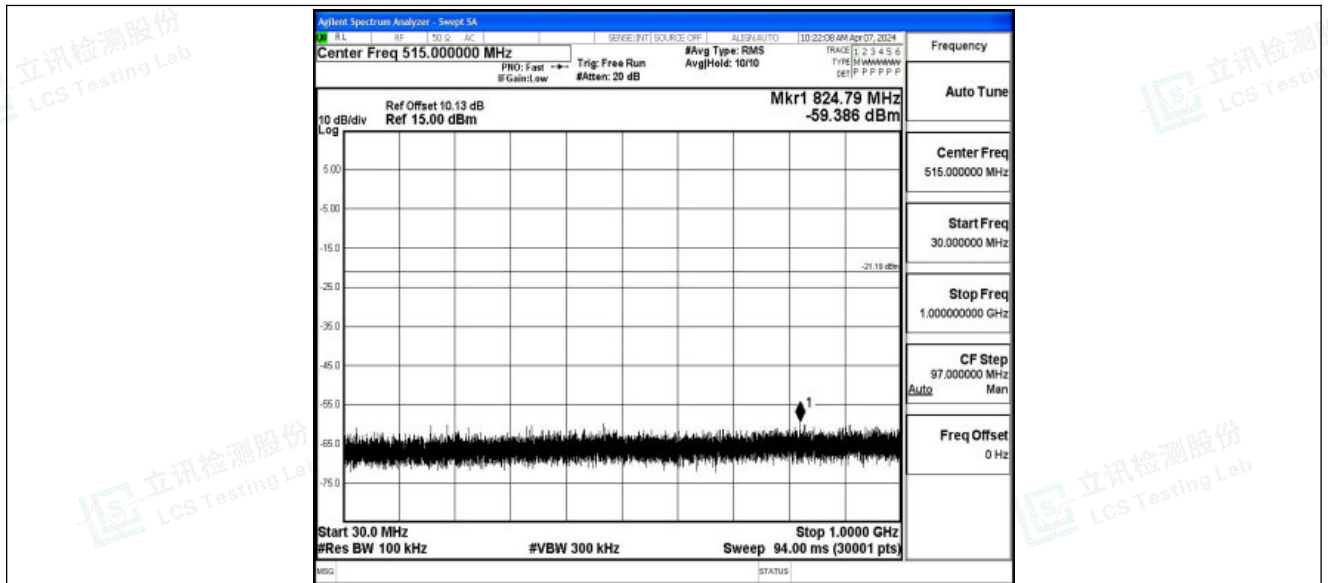


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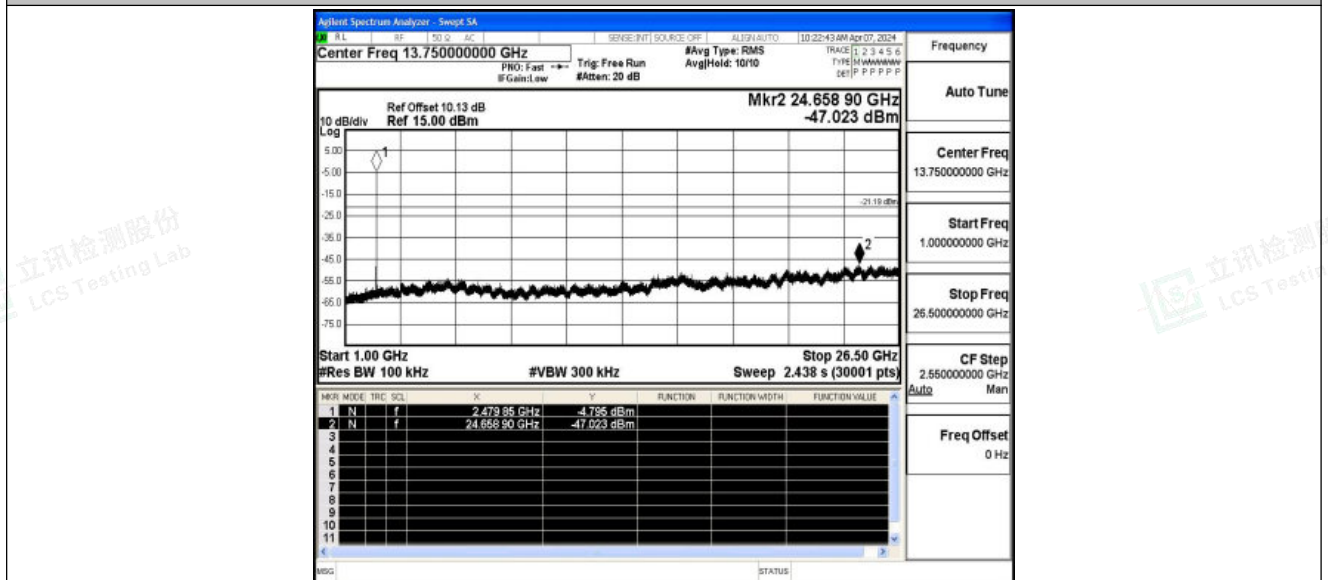
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_30~1000

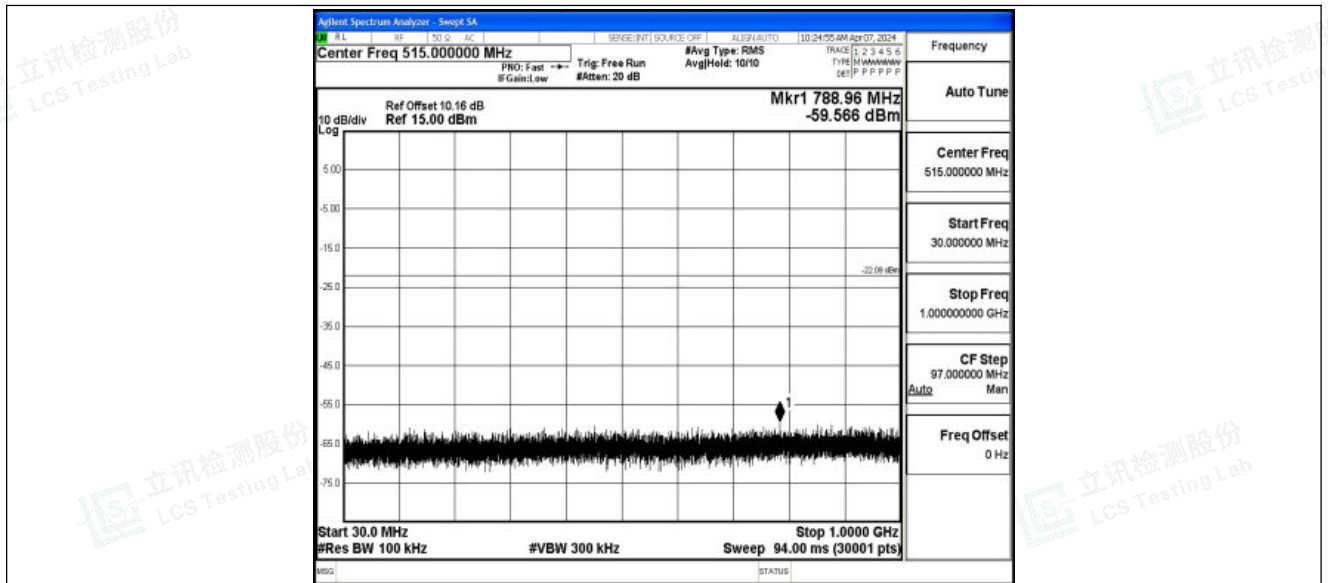


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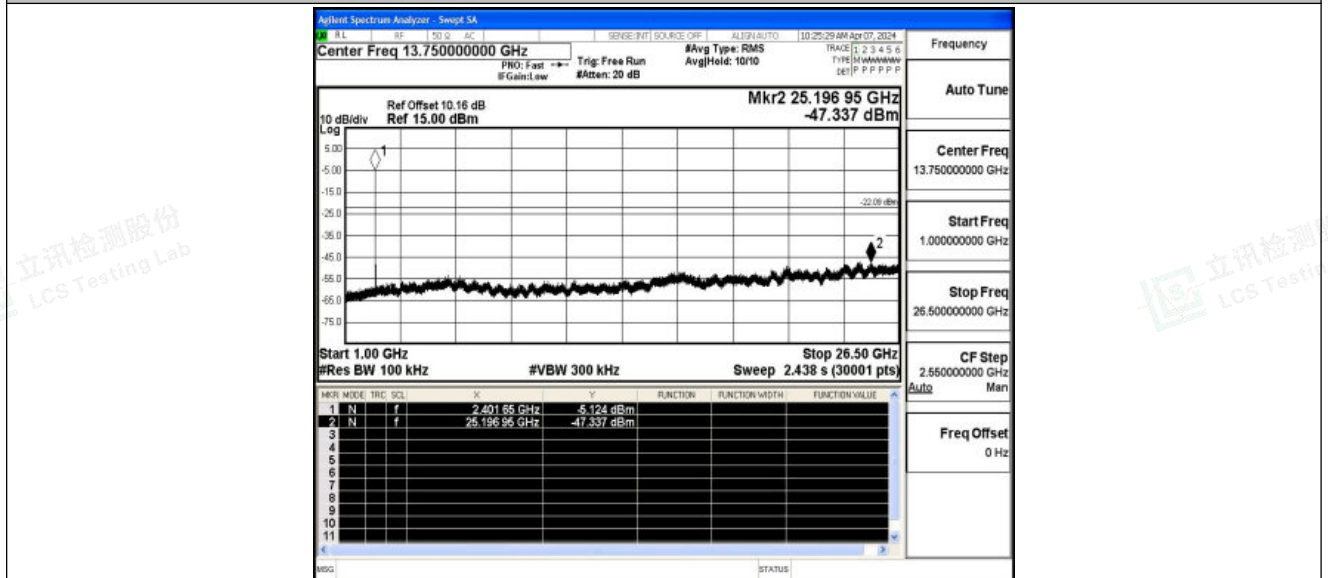
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_30~1000

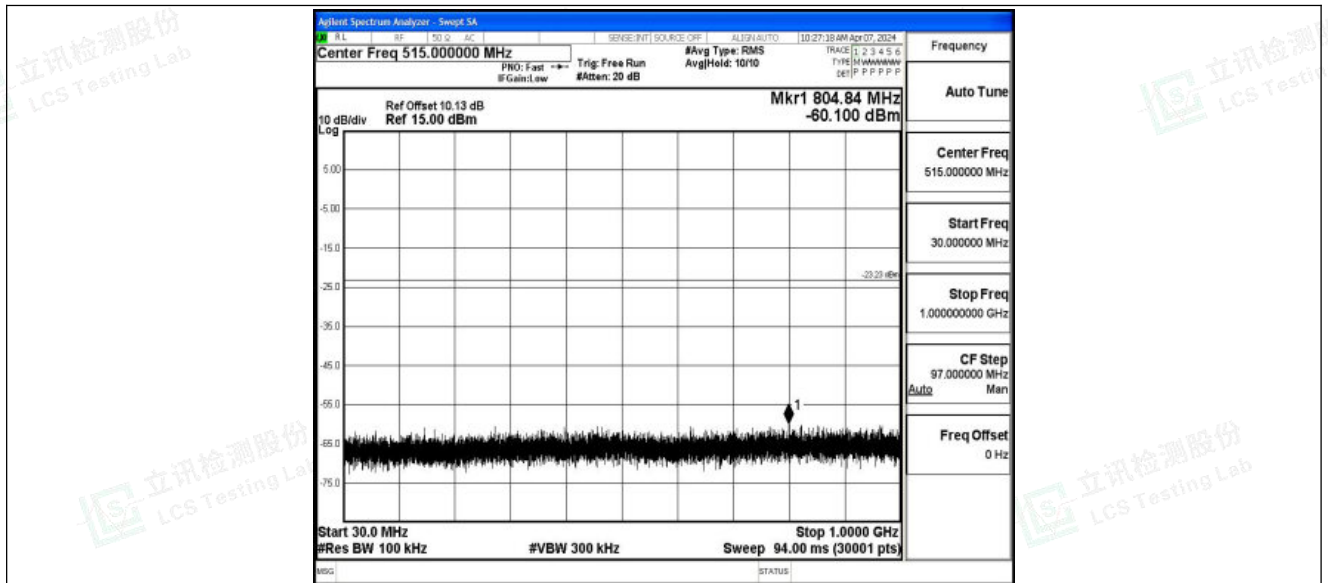


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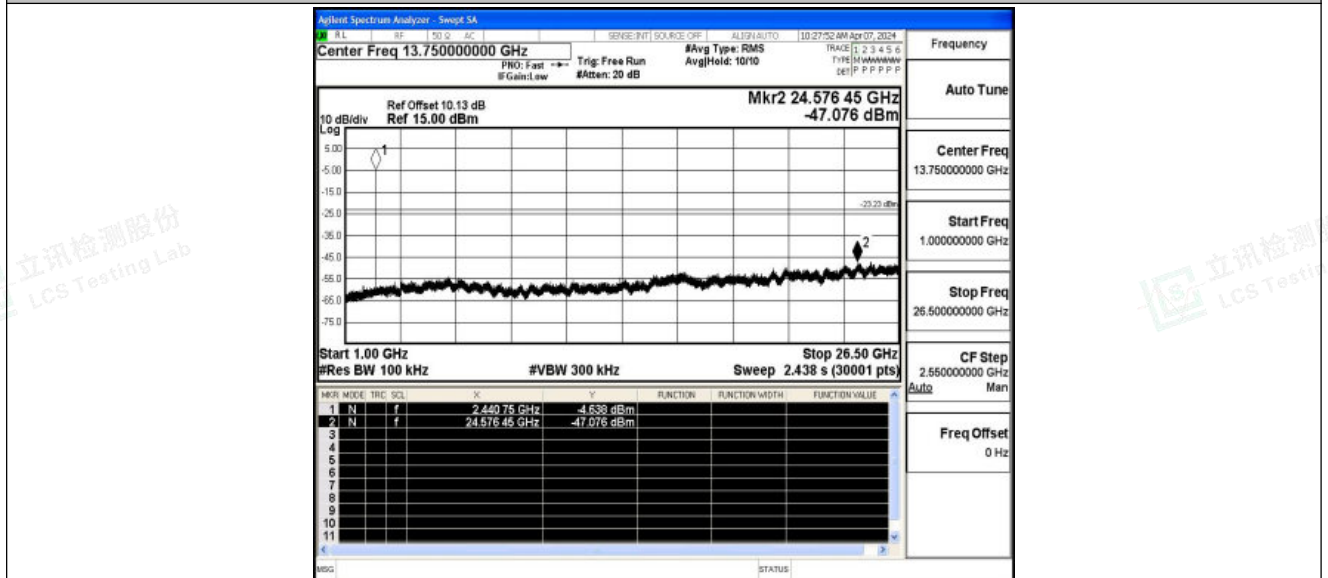
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_30~1000

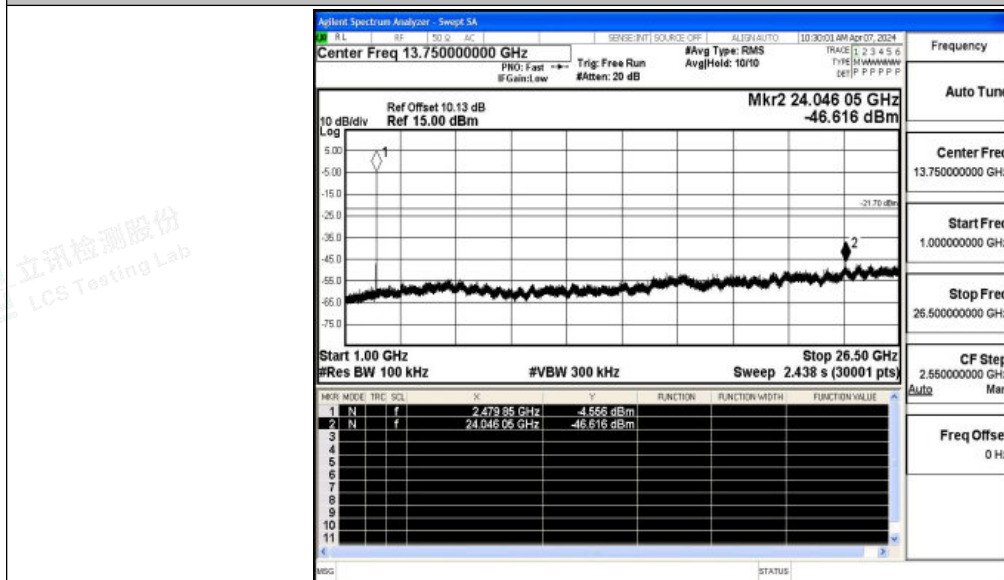
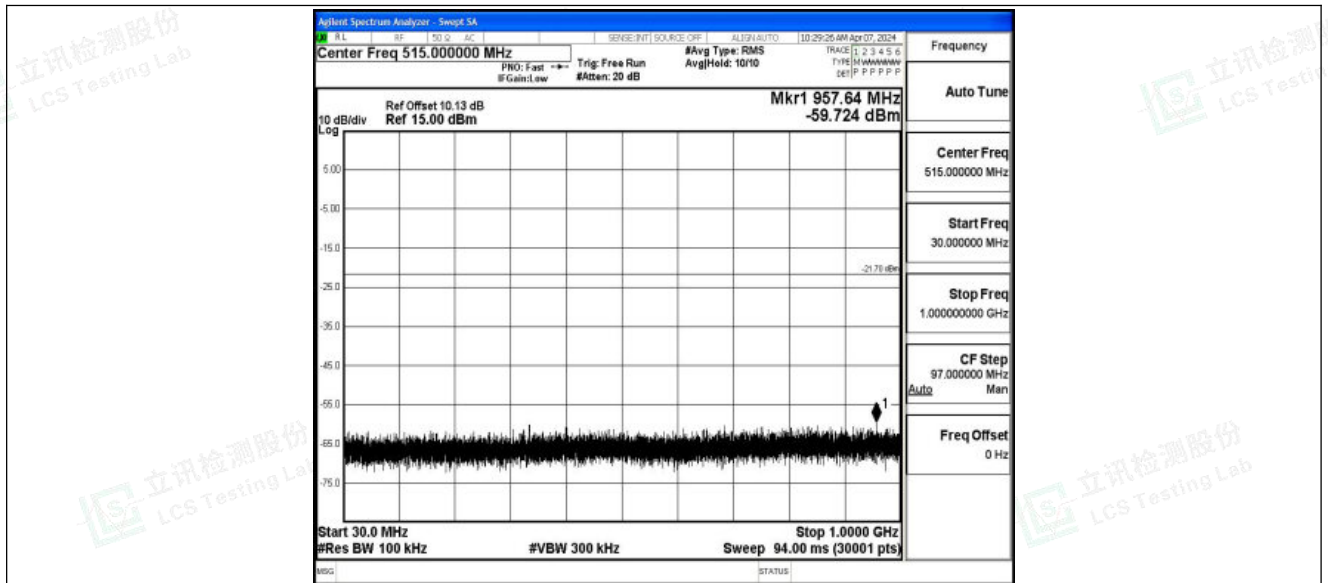


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Reference Level

Test Result

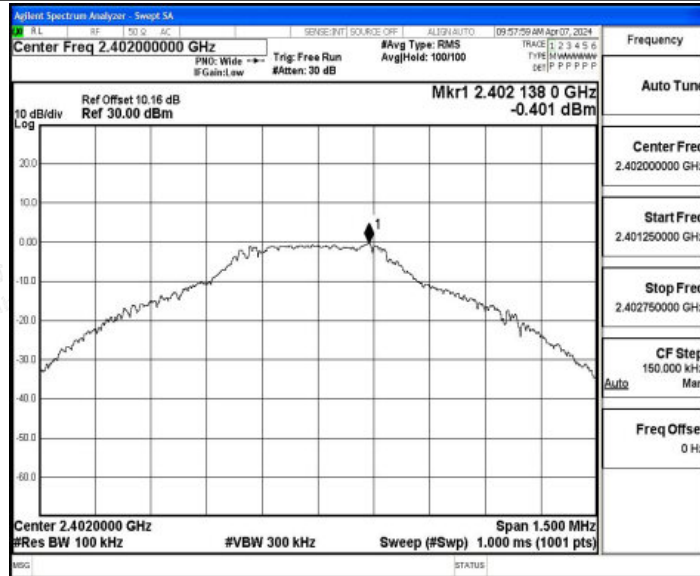
TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2402.14	-0.40	---	PASS
		2441	2440.83	-0.25	---	PASS
		2480	2480.14	-0.08	---	PASS
2DH5	Ant1	2402	2402.02	-2.47	---	PASS
		2441	2440.82	-1.23	---	PASS
		2480	2479.82	-1.19	---	PASS
3DH5	Ant1	2402	2401.99	-2.09	---	PASS
		2441	2441.05	-3.23	---	PASS
		2480	2480.14	-1.70	---	PASS



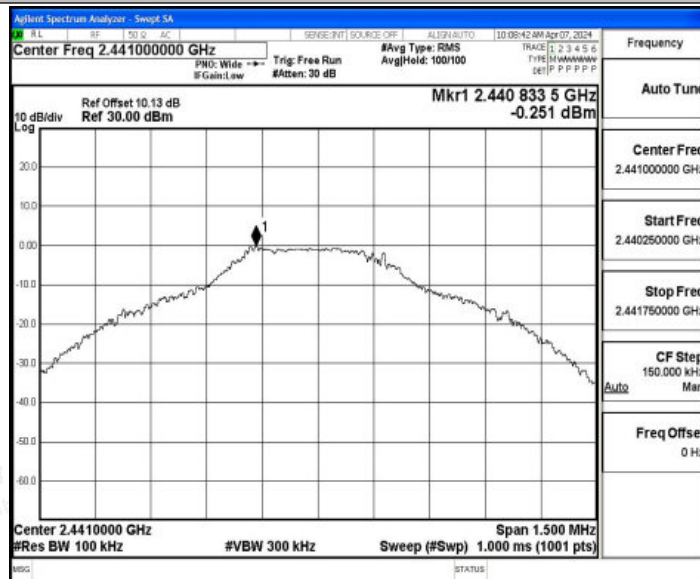


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

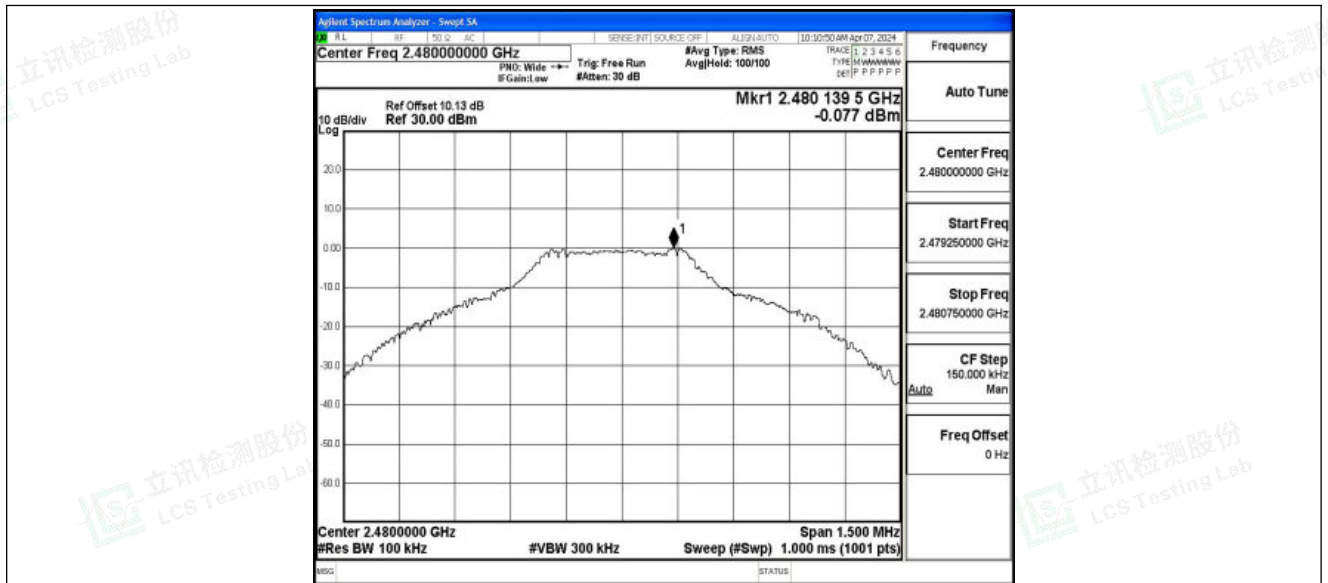


Shenzhen LCS Compliance Testing Laboratory Ltd.

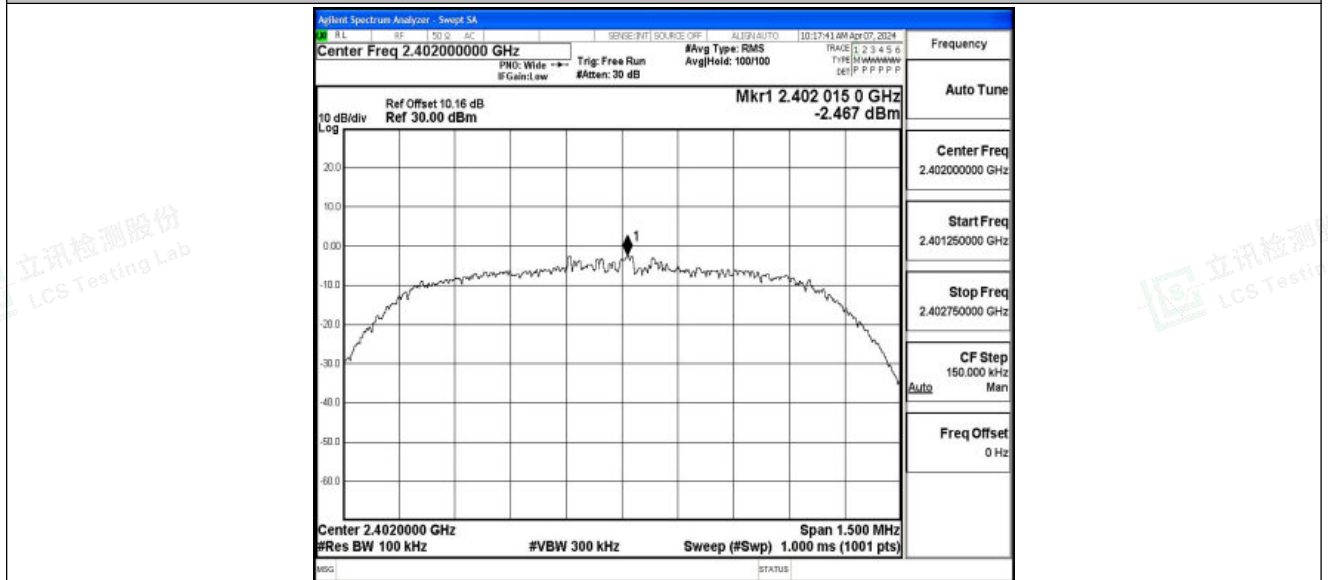
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2402



2DH5_Ant1_2441

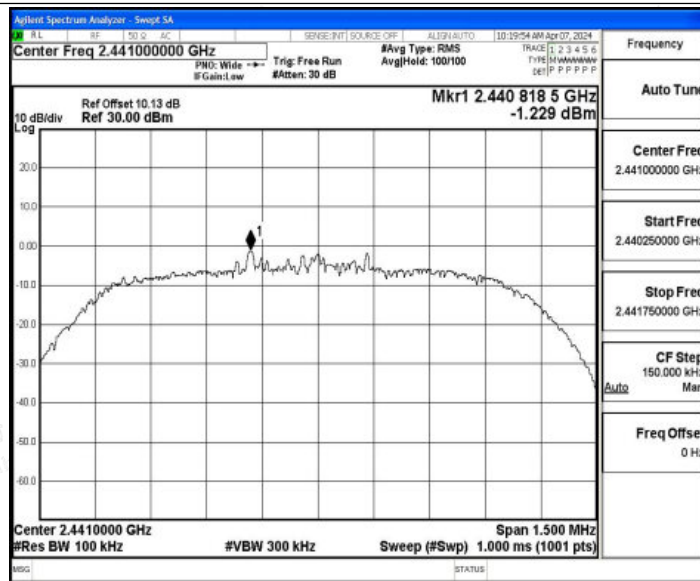


Shenzhen LCS Compliance Testing Laboratory Ltd.

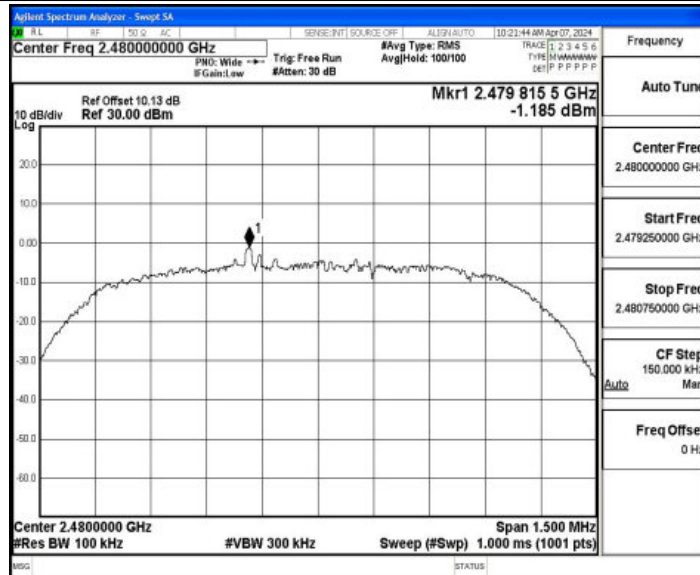
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2480



3DH5_Ant1_2402

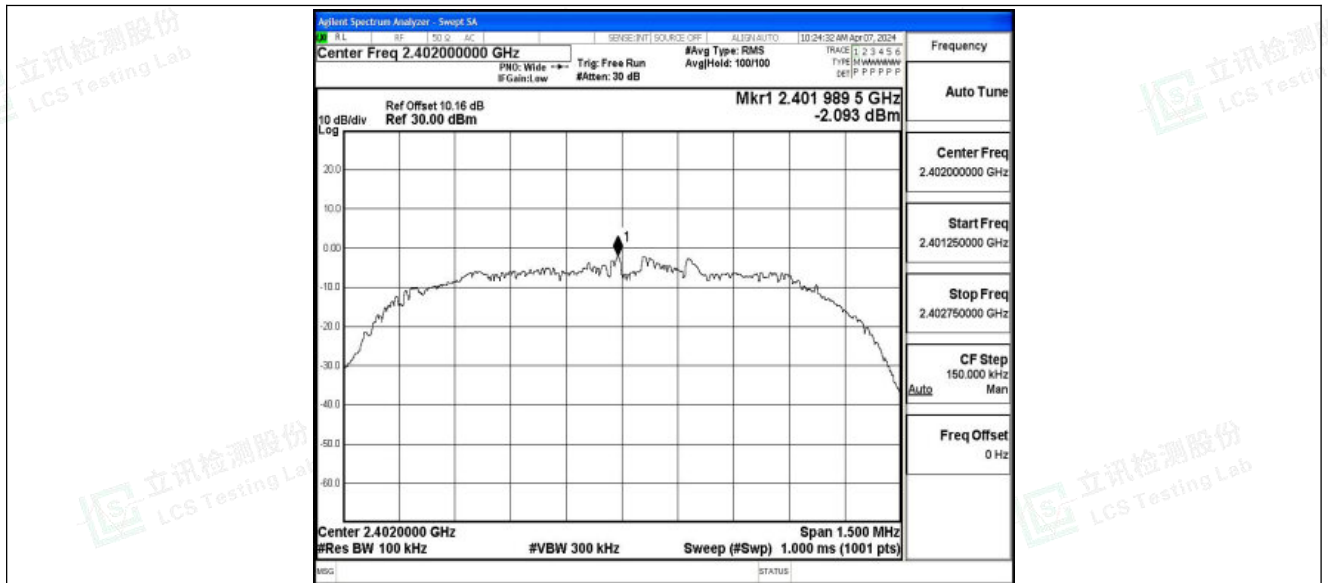


Shenzhen LCS Compliance Testing Laboratory Ltd.

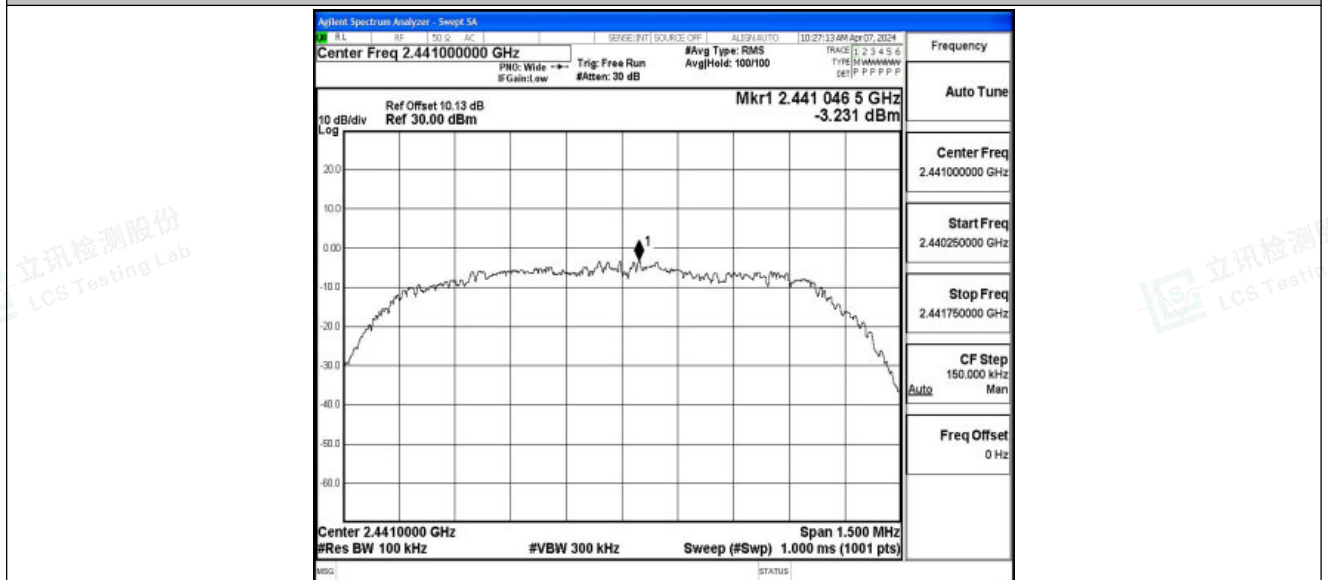
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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3DH5_Ant1_2441



3DH5_Ant1_2480

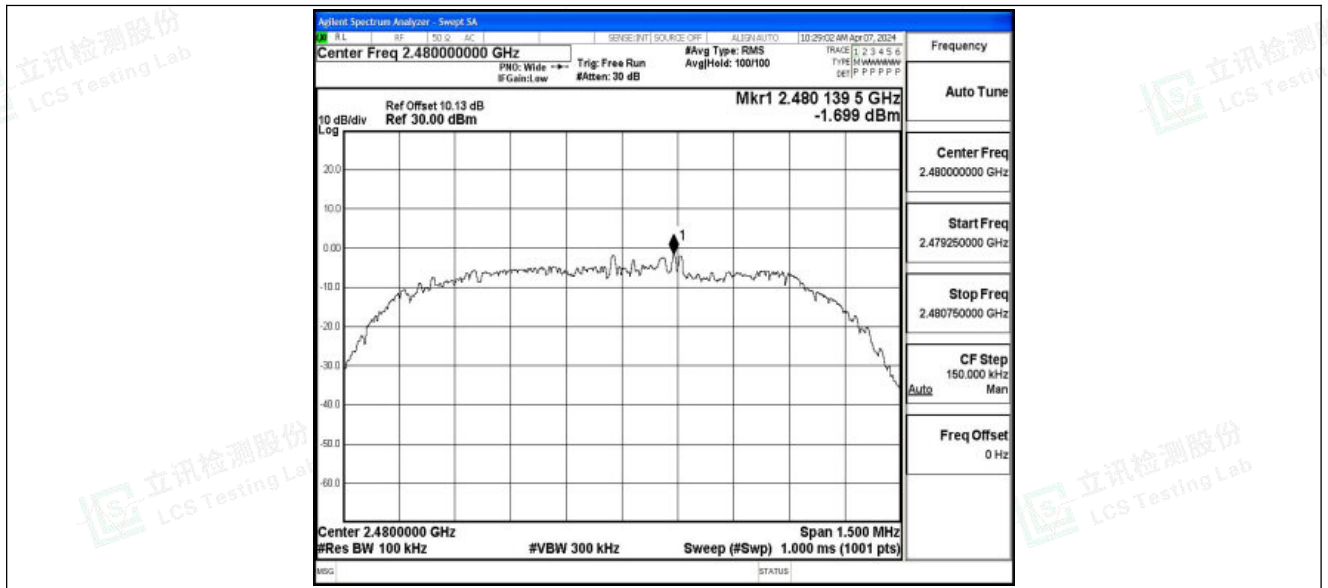


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A.8 Duty Cycle

Test Result

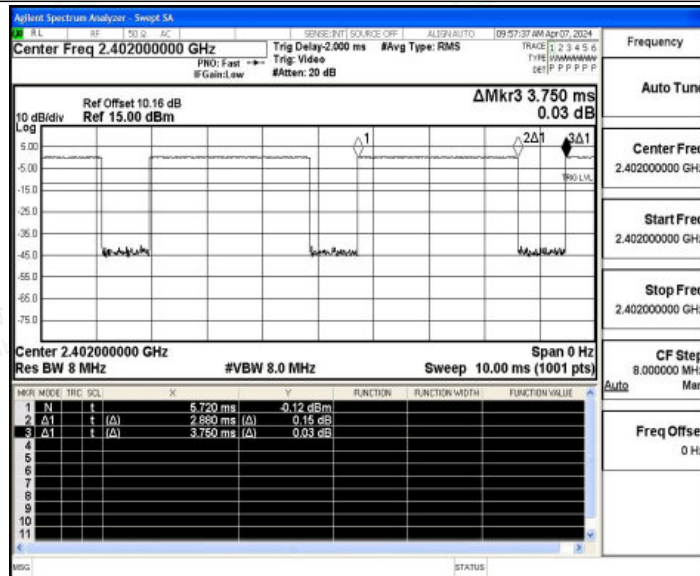
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.88	3.75	76.80	1.15	0.35
		2480	2.89	3.75	77.07	1.13	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.88	3.75	76.80	1.15	0.35
3DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.89	3.75	77.07	1.13	0.35



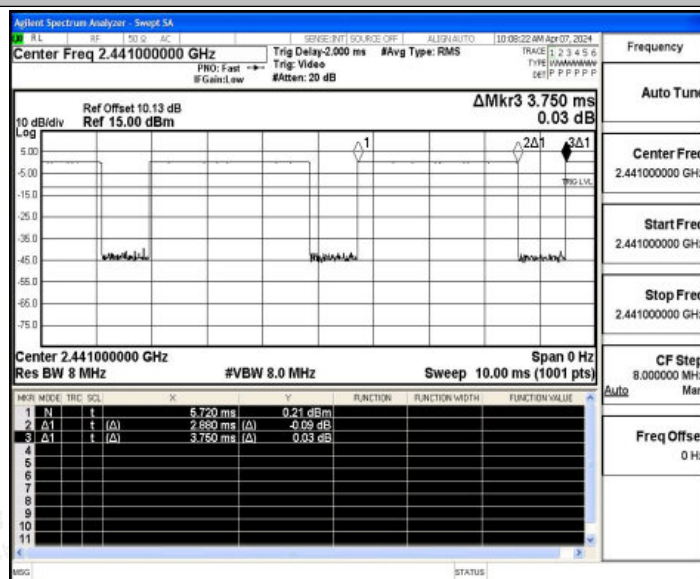


Test Graphs

DH5_Ant1_2402

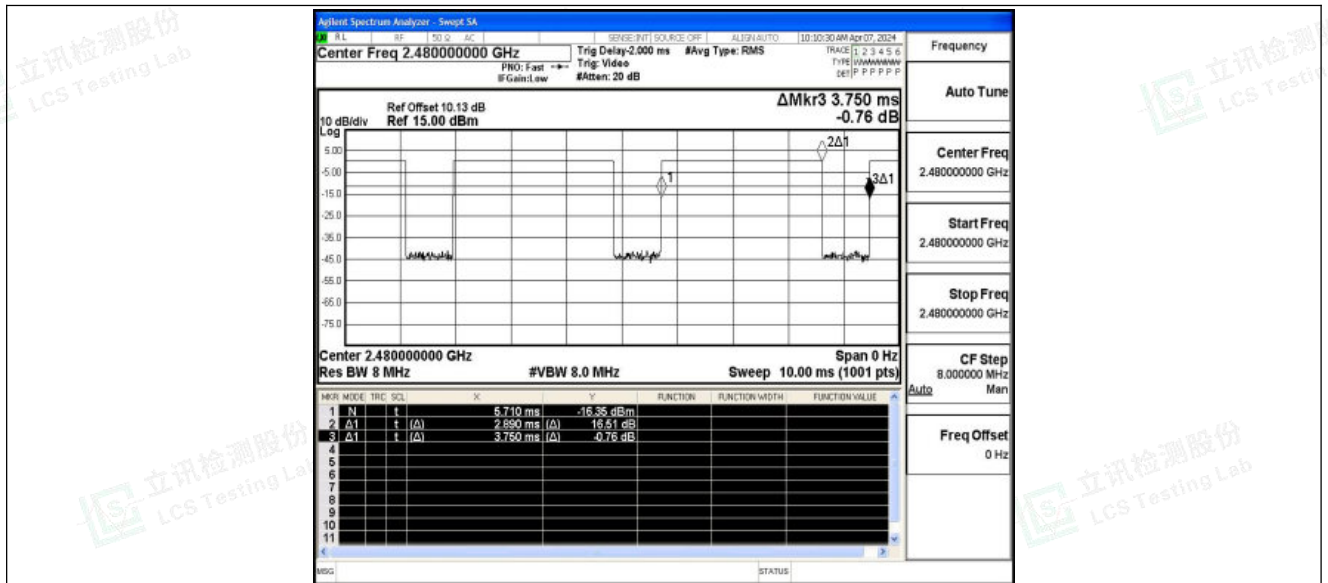


DH5_Ant1_2441

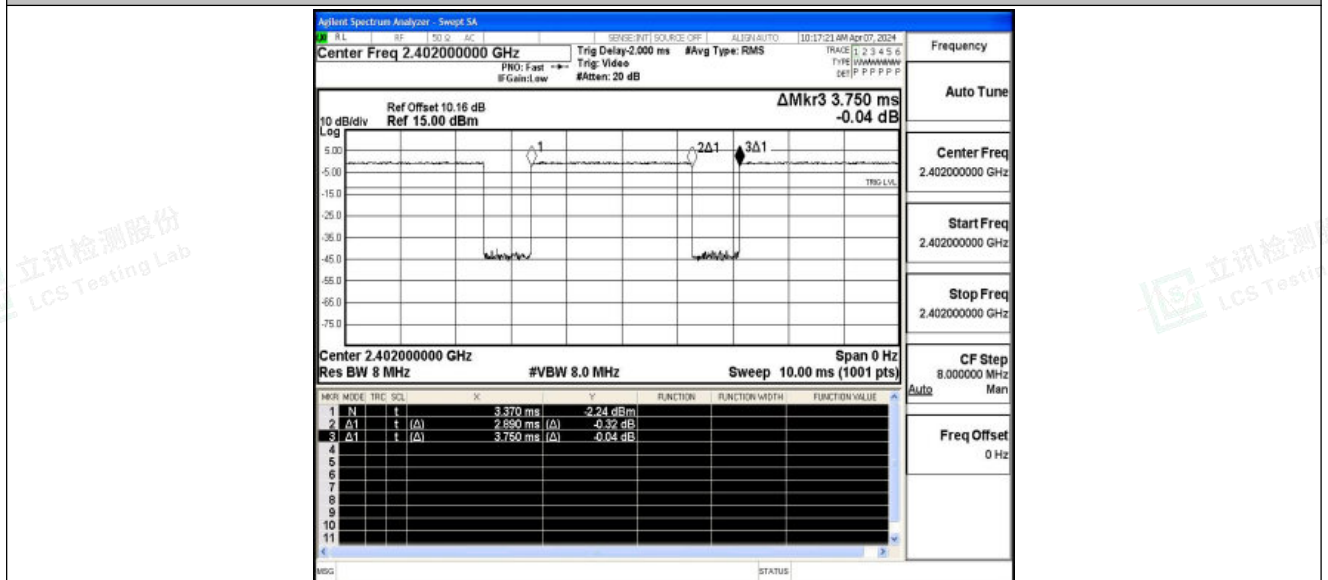


DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441

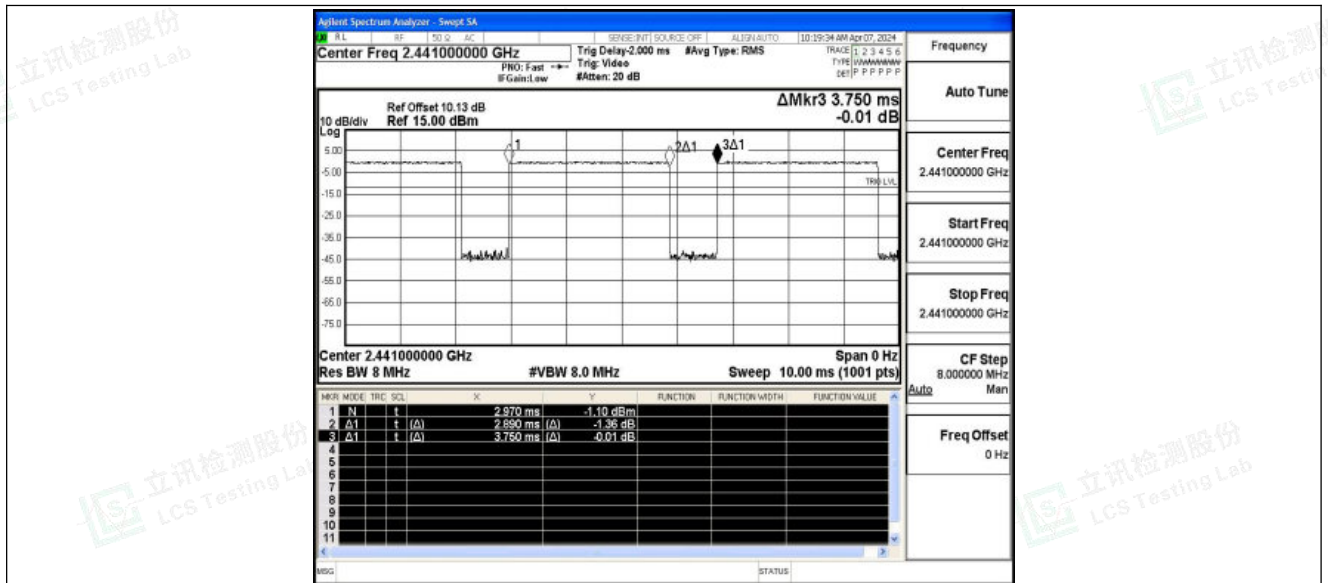


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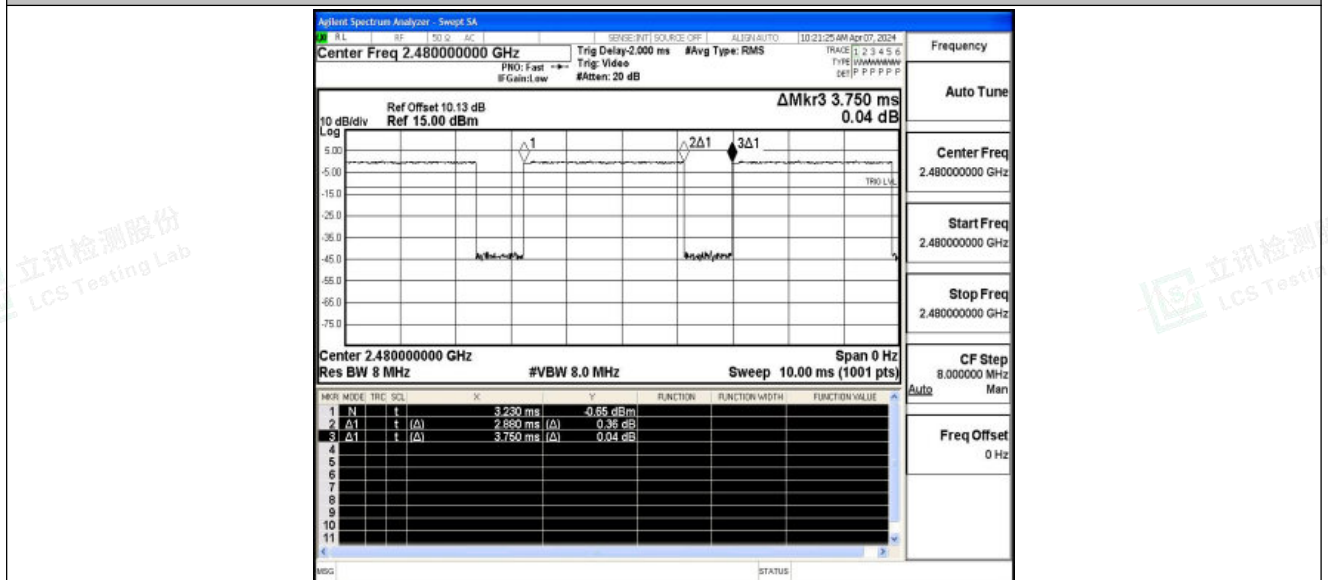
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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2DH5_Ant1_2480



3DH5_Ant1_2402

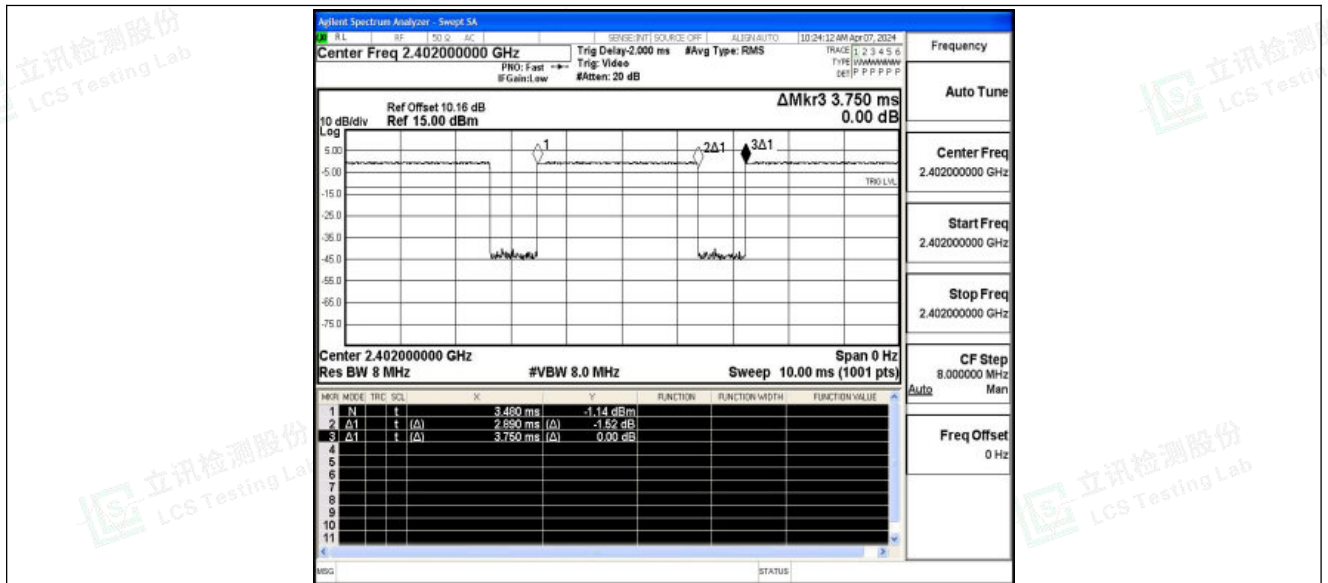


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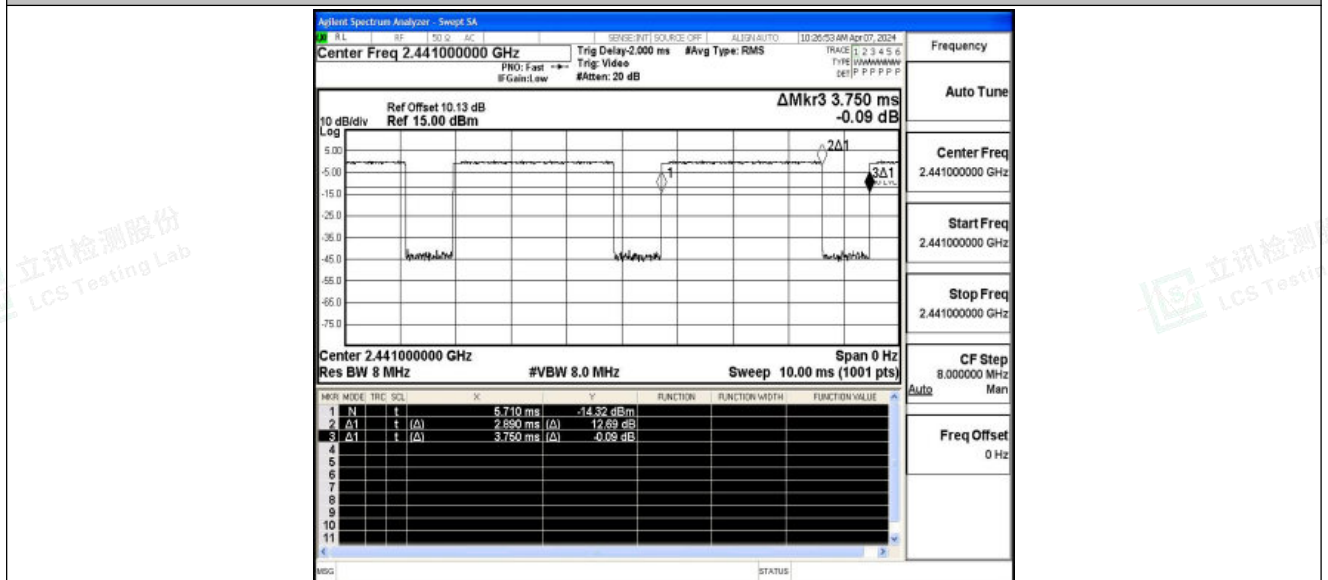
Add: 101, 201 Bldg A & 301 Bldg C., Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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3DH5_Ant1_2441



3DH5_Ant1_2480

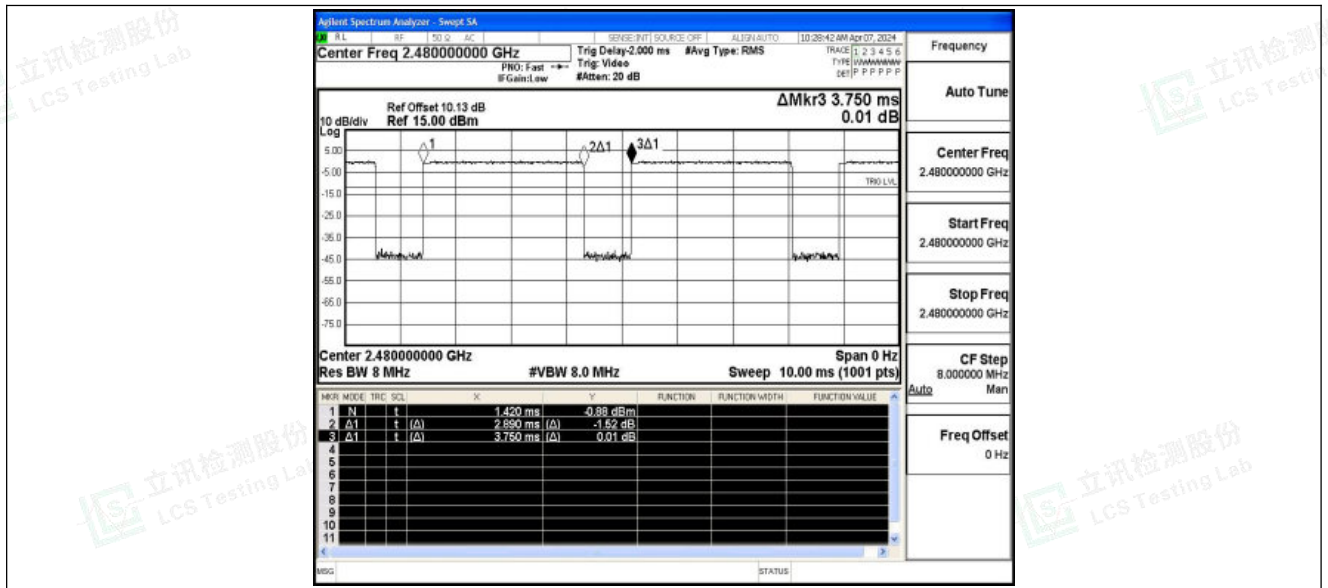


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-46.43	≤-41.20	48.77	≤54	PASS
				AV	2372.975	-45.9	≤-41.20	49.30	≤54	PASS
				AV	2390.000	-46.47	≤-41.20	48.73	≤54	PASS
				Peak	2310.000	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2382.425	-36.91	≤-21.20	58.29	≤74	PASS
				Peak	2390.000	-39.44	≤-21.20	55.76	≤74	PASS
		High	2480	AV	2483.500	-46.81	≤-41.20	48.39	≤54	PASS
				AV	2494.800	-45.78	≤-41.20	49.42	≤54	PASS
				AV	2500.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	2483.500	-39.45	≤-21.20	55.75	≤74	PASS
				Peak	2483.760	-36.21	≤-21.20	58.99	≤74	PASS
				Peak	2500.000	-39.02	≤-21.20	56.18	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.4	≤-21.20	53.80	≤74	PASS
				Peak	2341.475	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2390.000	-38.19	≤-21.20	57.01	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2494.320	-37.32	≤-21.20	57.88	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-46.94	≤-41.20	48.26	≤54	PASS
				AV	2382.320	-45.86	≤-41.20	49.34	≤54	PASS
				AV	2390.000	-46.52	≤-41.20	48.68	≤54	PASS
				Peak	2310.000	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	2312.285	-36.77	≤-21.20	58.43	≤74	PASS
				Peak	2390.000	-38.15	≤-21.20	57.05	≤74	PASS
		High	2480	AV	2483.500	-46.22	≤-41.20	48.98	≤54	PASS
				AV	2484.400	-45.77	≤-41.20	49.43	≤54	PASS
				AV	2500.000	-45.83	≤-41.20	49.37	≤54	PASS
				Peak	2483.500	-39.1	≤-21.20	56.10	≤74	PASS
				Peak	2491.920	-37.48	≤-21.20	57.72	≤74	PASS
				Peak	2500.000	-39.78	≤-21.20	55.42	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.18	≤-21.20	54.02	≤74	PASS
				Peak	2357.015	-37.24	≤-21.20	57.96	≤74	PASS
				Peak	2390.000	-40.74	≤-21.20	54.46	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.9	≤-21.20	56.30	≤74	PASS
				Peak	2494.720	-36.98	≤-21.20	58.22	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-38.86	≤-21.20	56.34	≤74	PASS
				AV	2310.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2385.365	-45.57	≤-41.20	49.63	≤54	PASS
				AV	2390.000	-46.96	≤-41.20	48.24	≤54	PASS
				Peak	2310.000	-40.2	≤-21.20	55.00	≤74	PASS
				Peak	2344.520	-37.16	≤-21.20	58.04	≤74	PASS
				Peak	2390.000	-39.53	≤-21.20	55.67	≤74	PASS
		High	2480	AV	2483.500	-46.14	≤-41.20	49.06	≤54	PASS
				AV	2489.440	-45.75	≤-41.20	49.45	≤54	PASS
				AV	2500.000	-46.29	≤-41.20	48.91	≤54	PASS
				Peak	2483.500	-39.12	≤-21.20	56.08	≤74	PASS
				Peak	2492.320	-37.39	≤-21.20	57.81	≤74	PASS
				Peak	2500.000	-38.9	≤-21.20	56.30	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.18	≤-21.20	54.02	≤74	PASS
				Peak	2320.055	-37.23	≤-21.20	57.97	≤74	PASS
				Peak	2390.000	-41.05	≤-21.20	54.15	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	2495.520	-37.35	≤-21.20	57.85	≤74	PASS
				Peak	2500.000	-40.15	≤-21.20	55.05	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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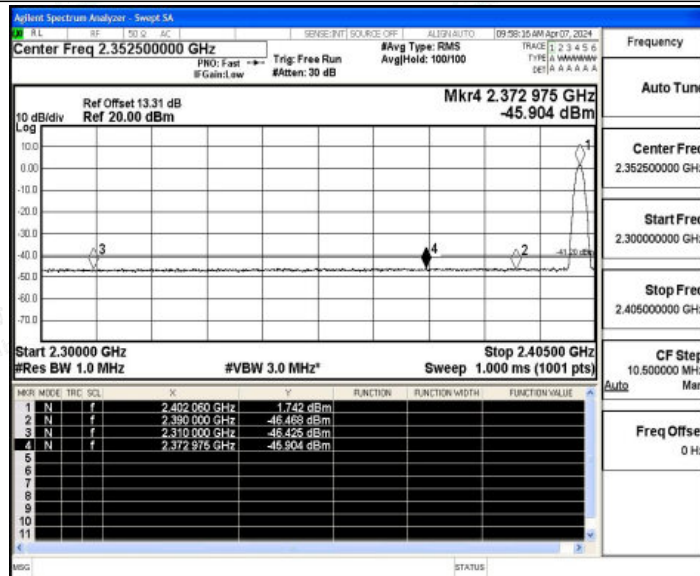
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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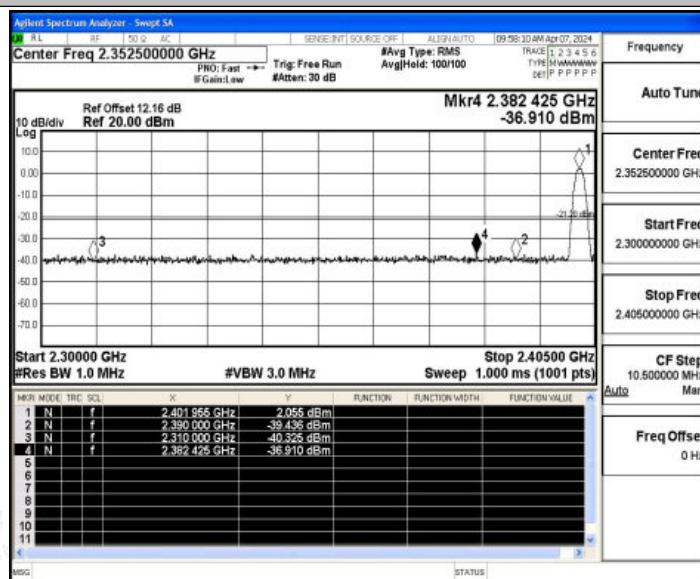


Test Graphs

DH5_Ant1_Low_2402_AV

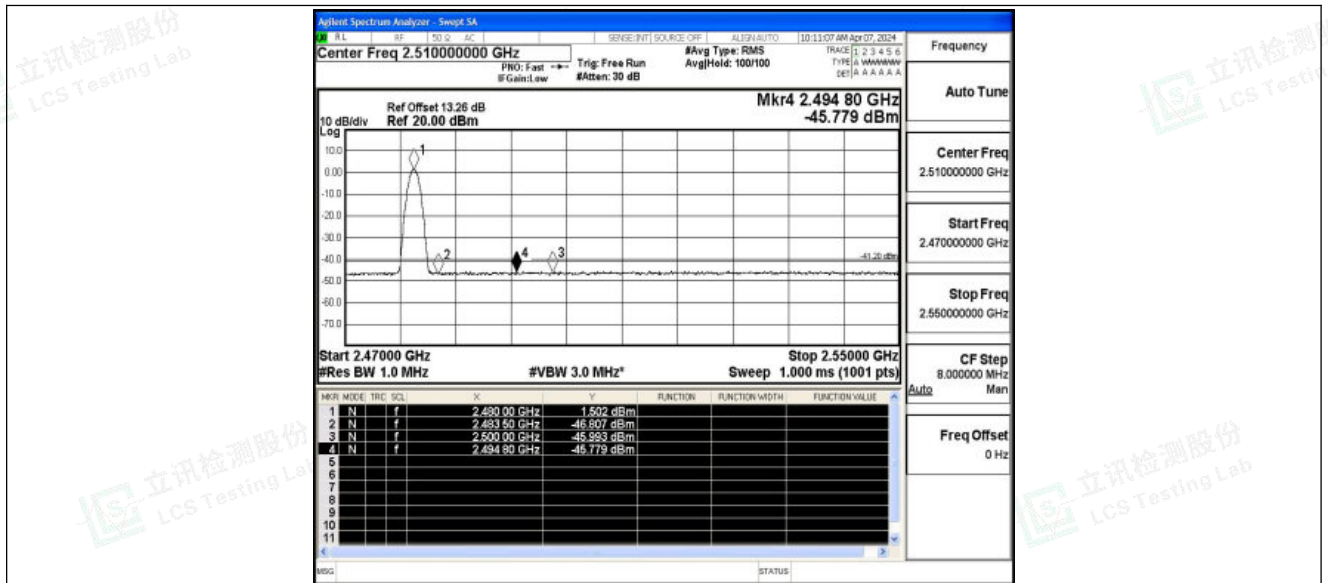


DH5_Ant1_Low_2402_Peak

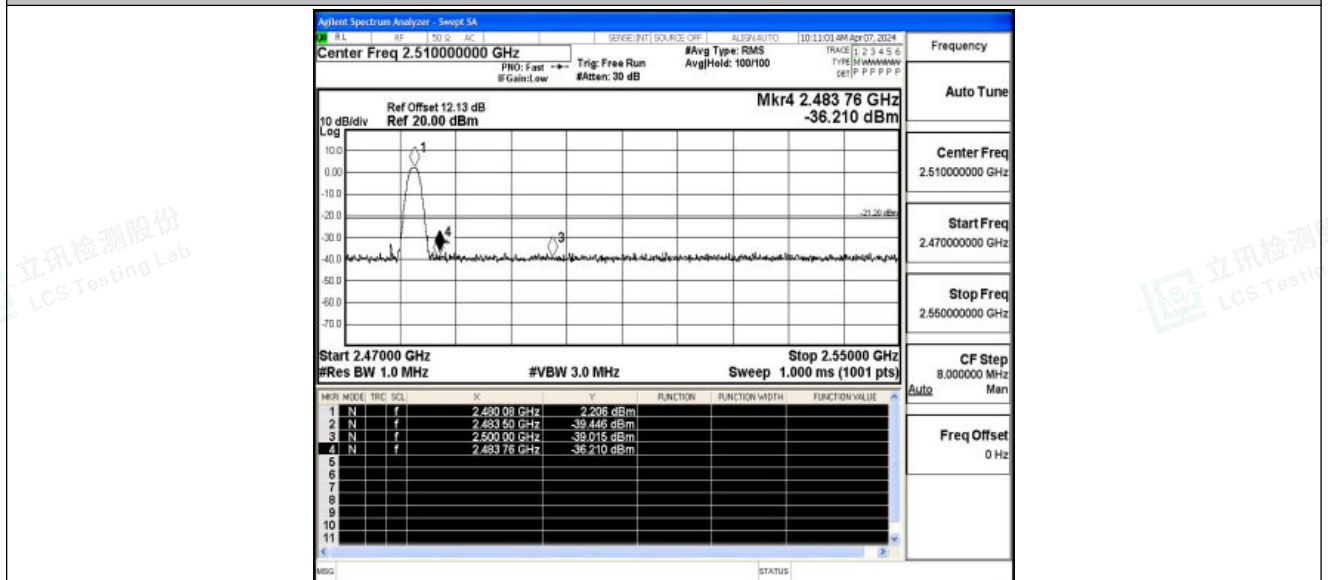


DH5_Ant1_High_2480_AV





DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

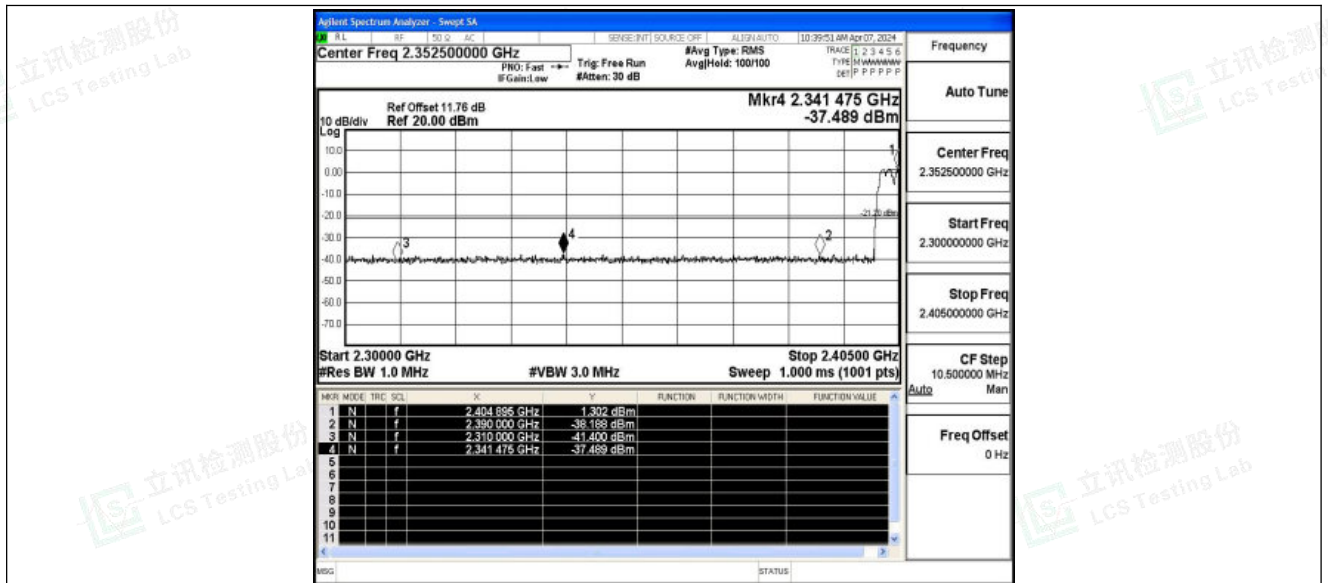


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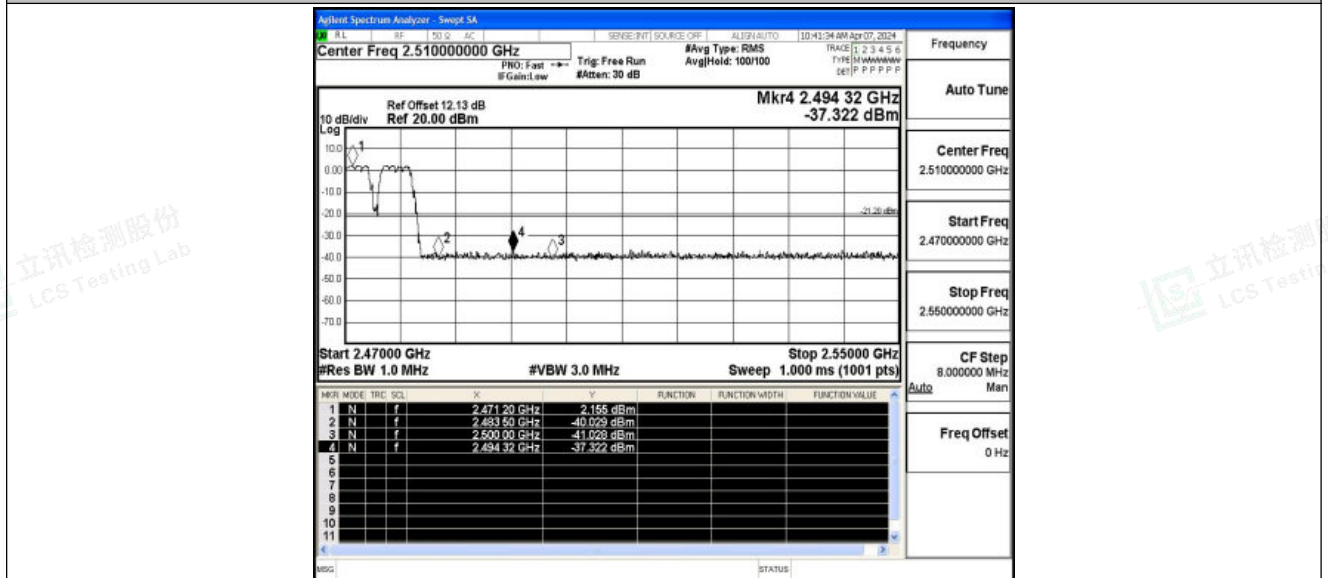
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

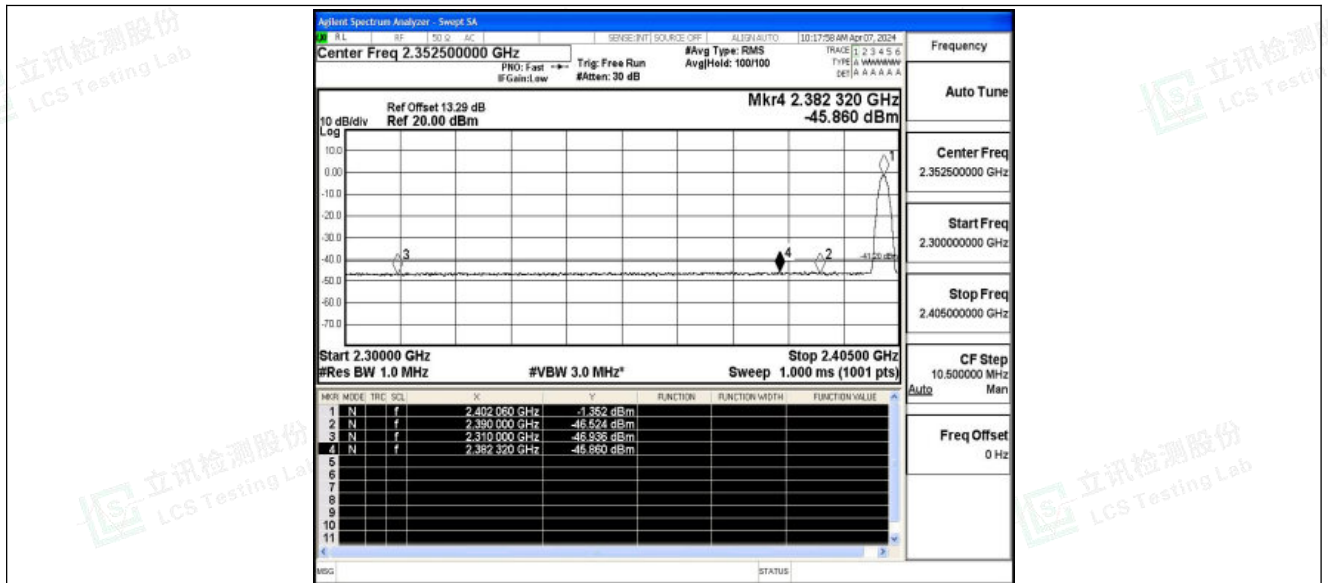


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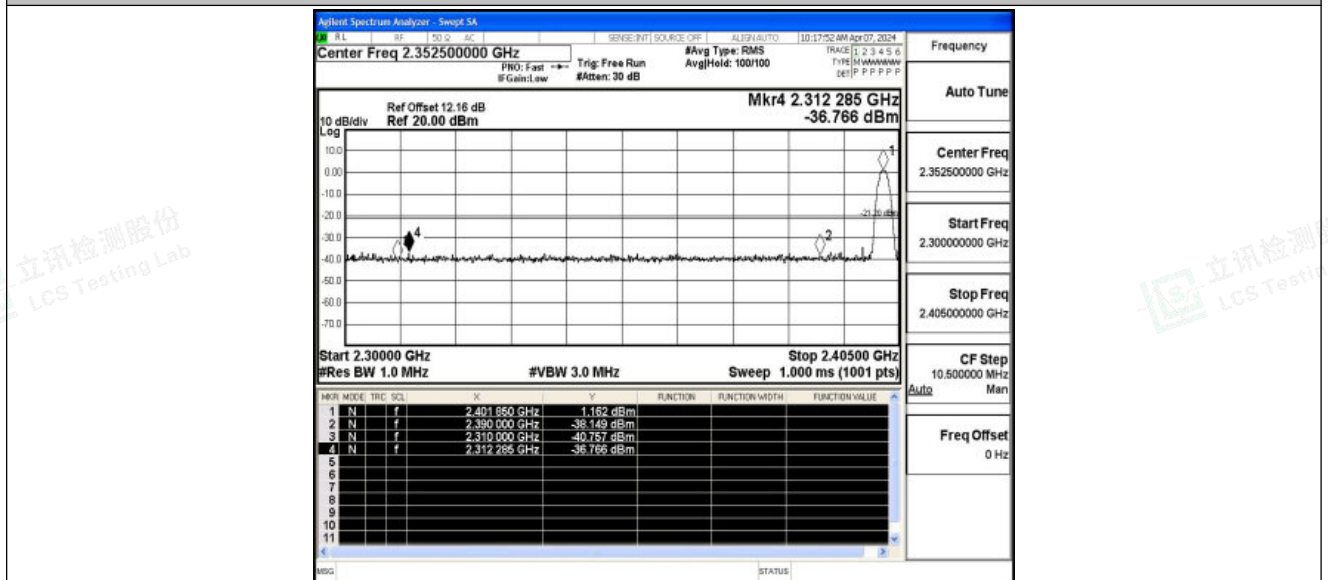
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

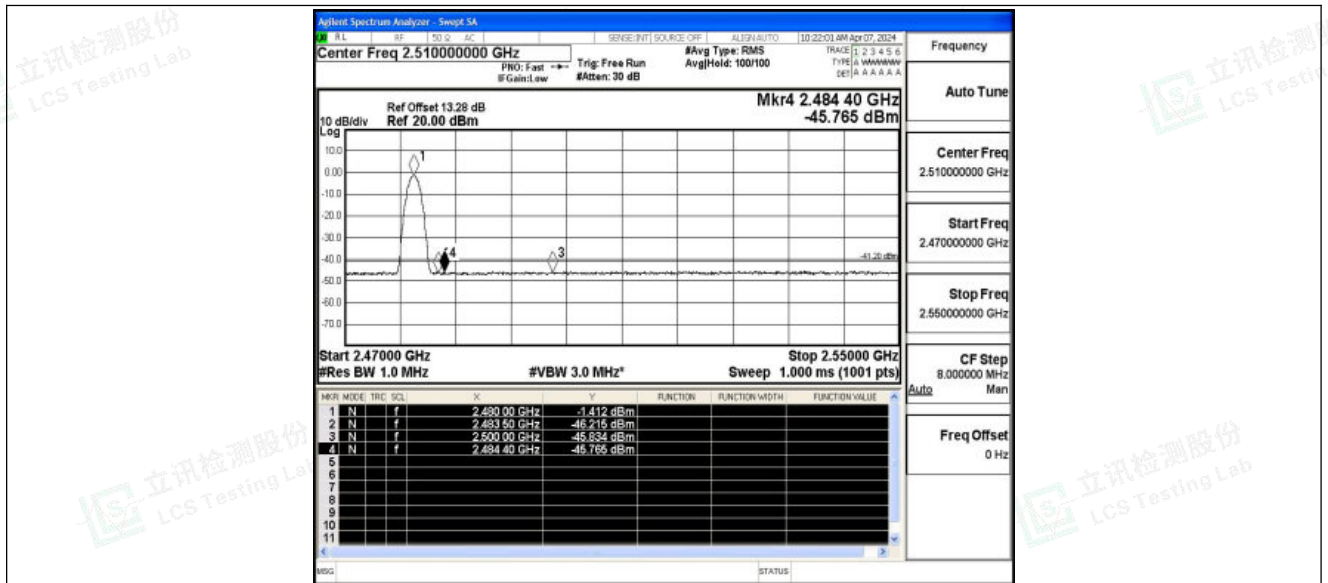


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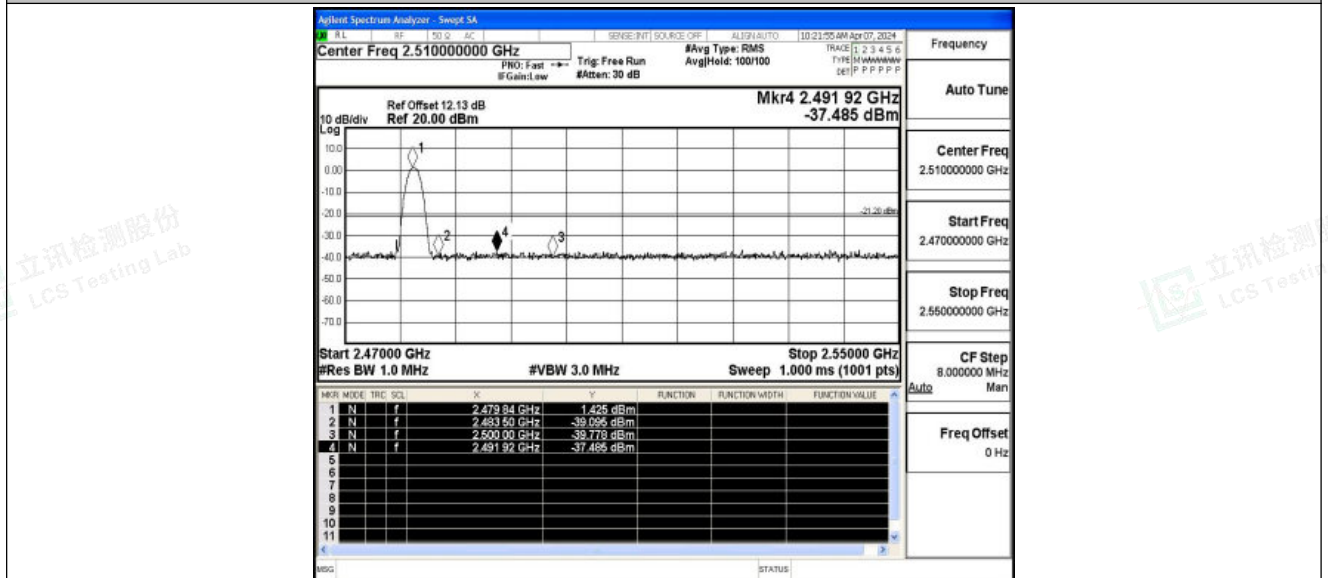
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2DH5_Ant1_Low_Hop_2402_Peak

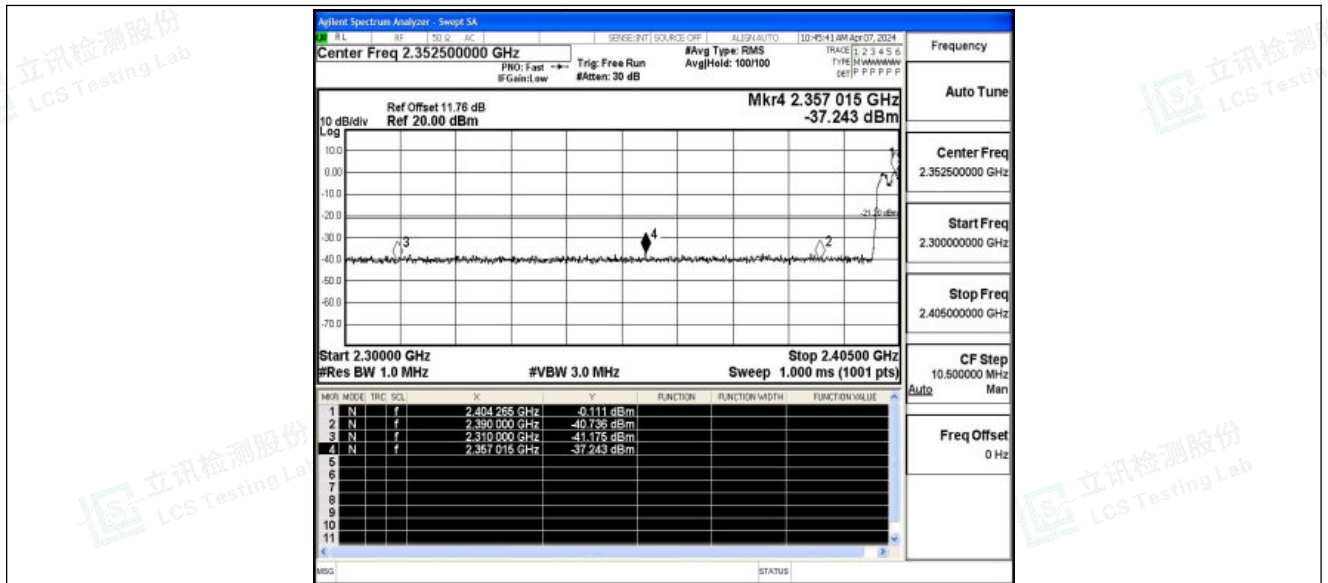


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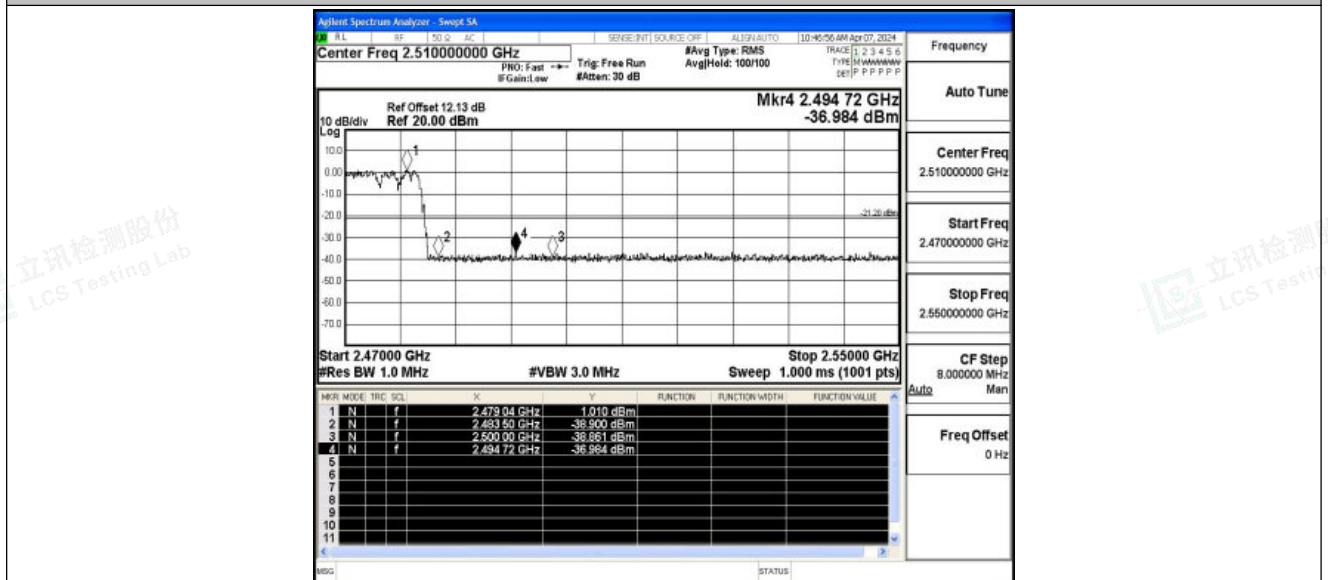
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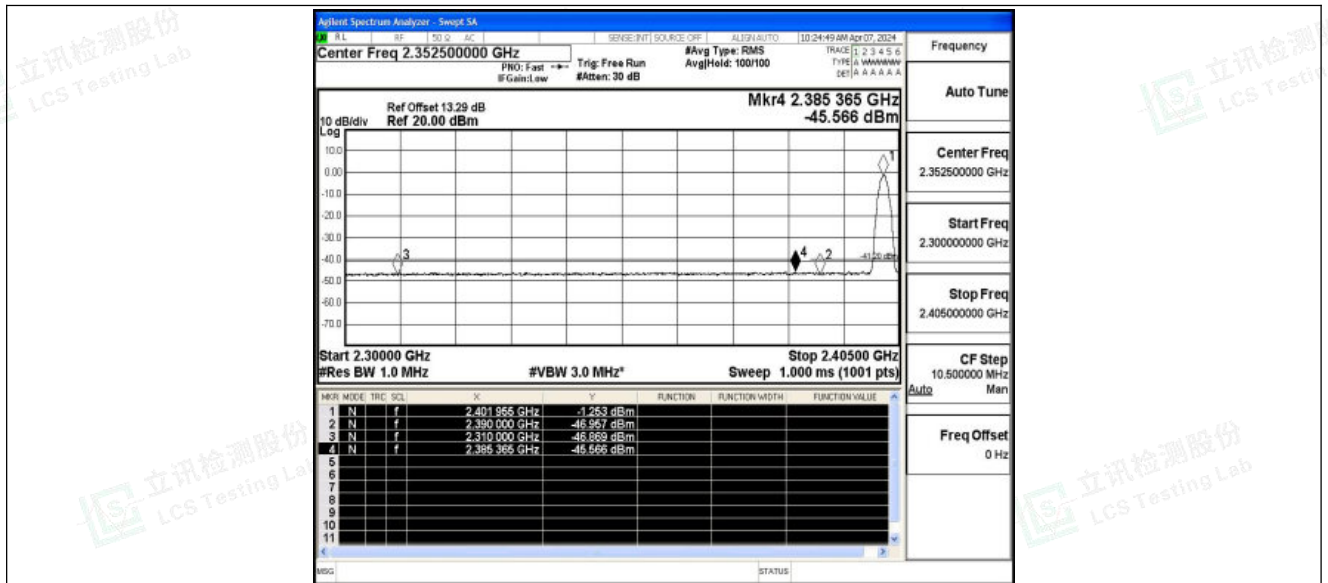


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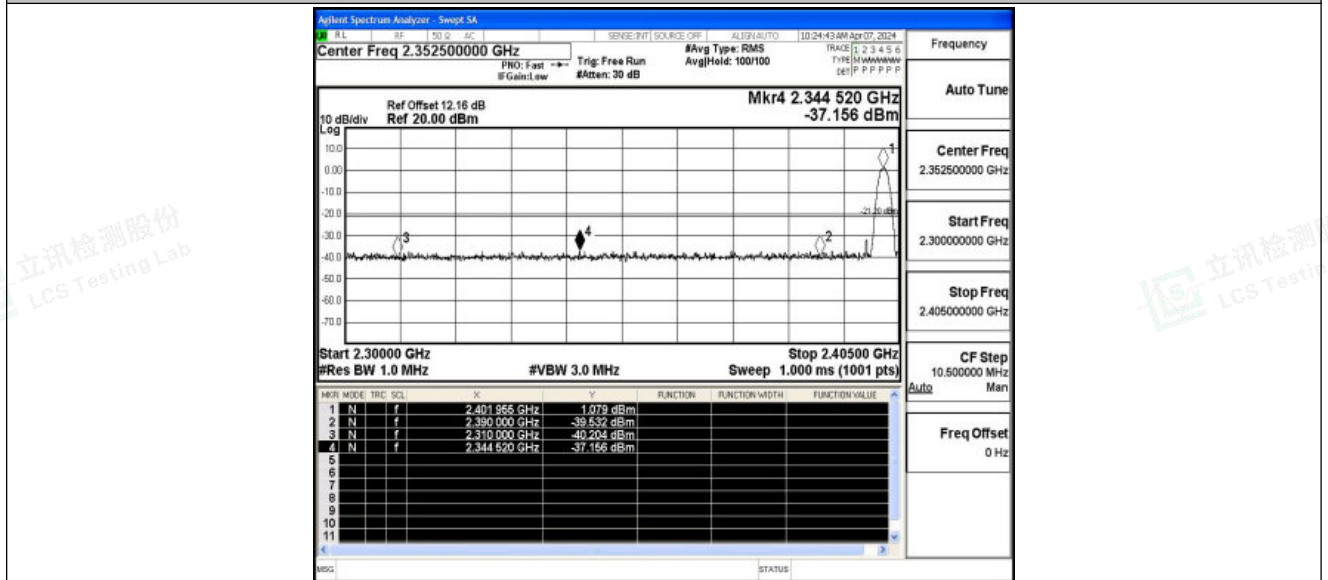


3DH5_Ant1_Low_2402_AV





3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

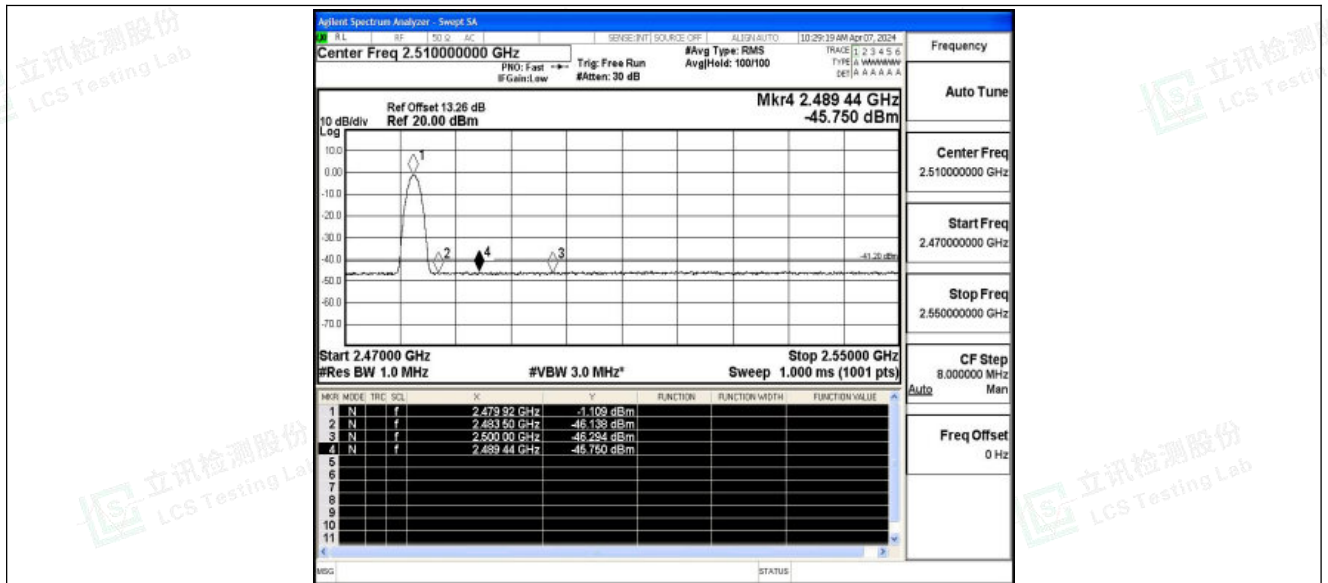


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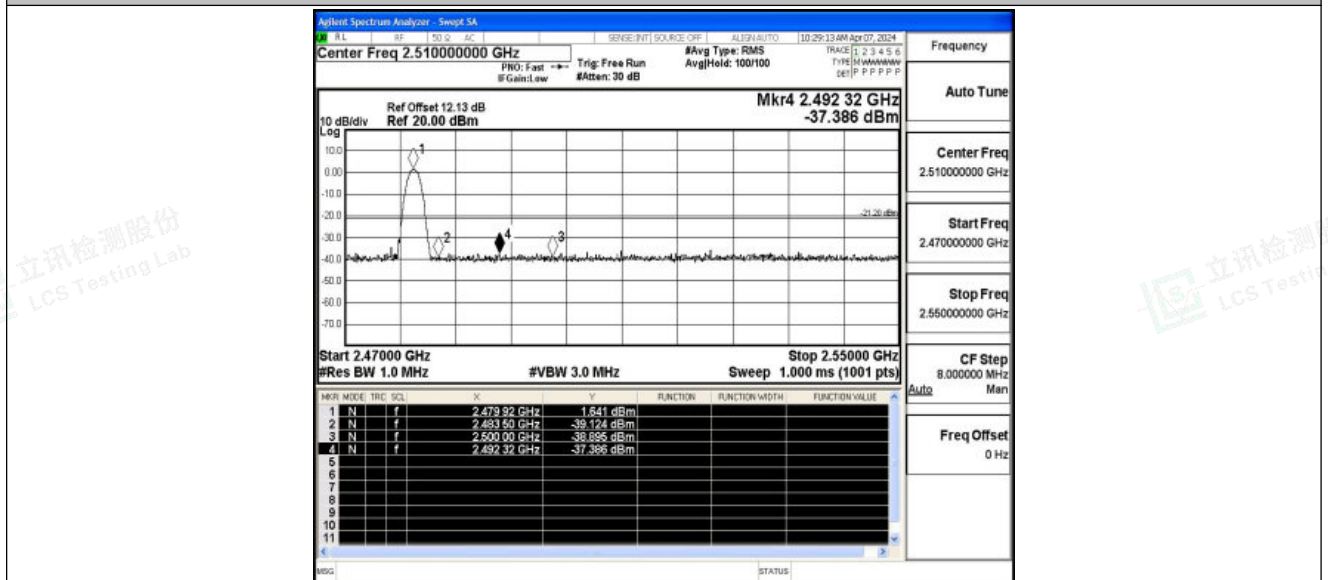
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

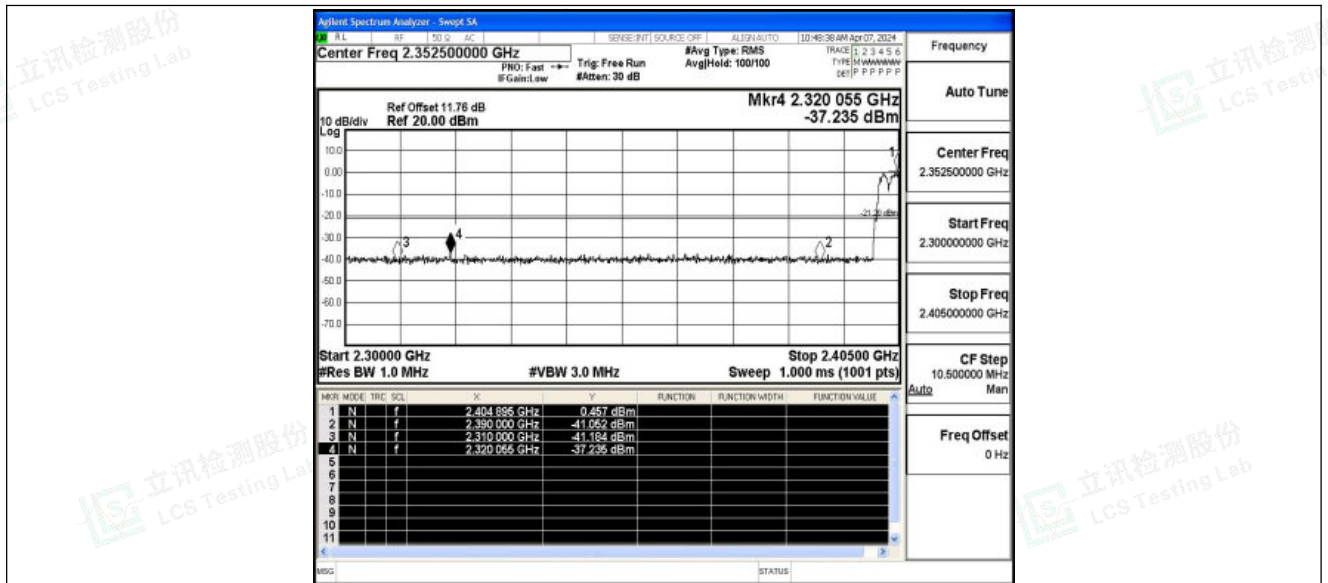


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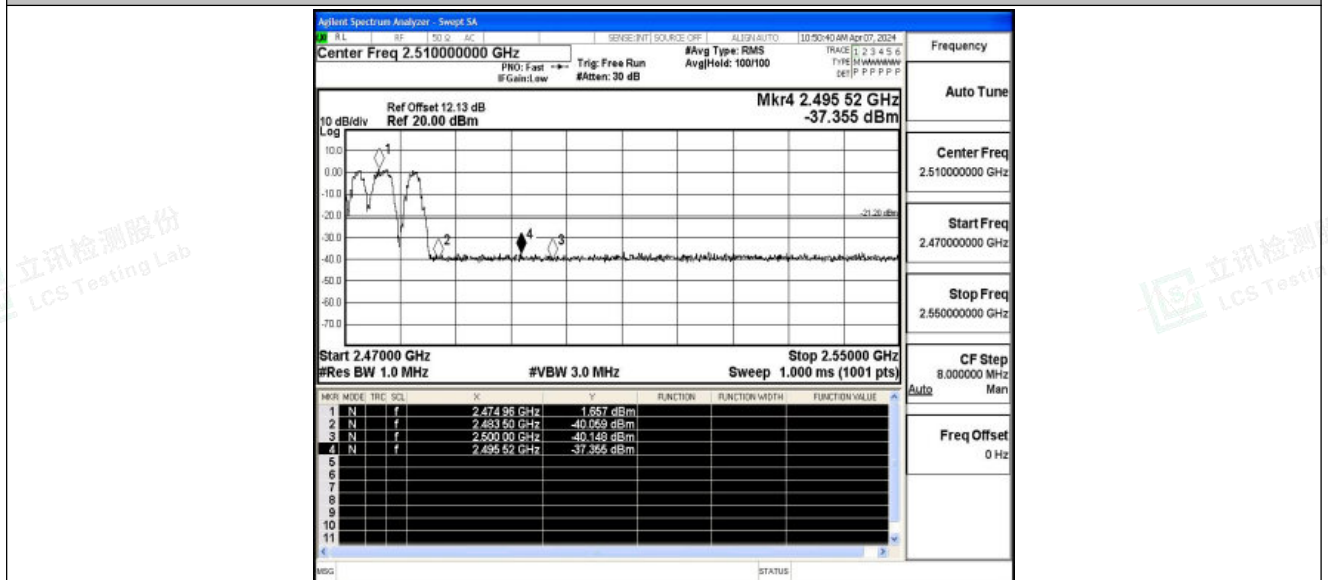
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