



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: RGB Wireless headphone

Test Model: LS-HB2306

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

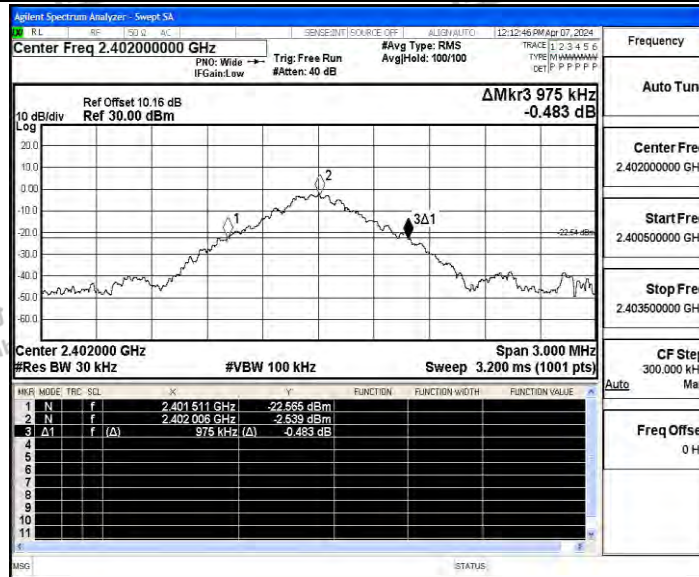
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.975	2401.511	2402.486	---	---
		2441	1.032	2440.463	2441.495	---	---
		2480	1.017	2479.466	2480.483	---	---
2DH5	Ant	2402	1.314	2401.331	2402.645	---	---
		2441	1.293	2440.349	2441.642	---	---
		2480	1.293	2479.352	2480.645	---	---
3DH5	Ant	2402	1.296	2401.343	2402.639	---	---
		2441	1.281	2440.346	2441.627	---	---
		2480	1.308	2479.337	2480.645	---	---



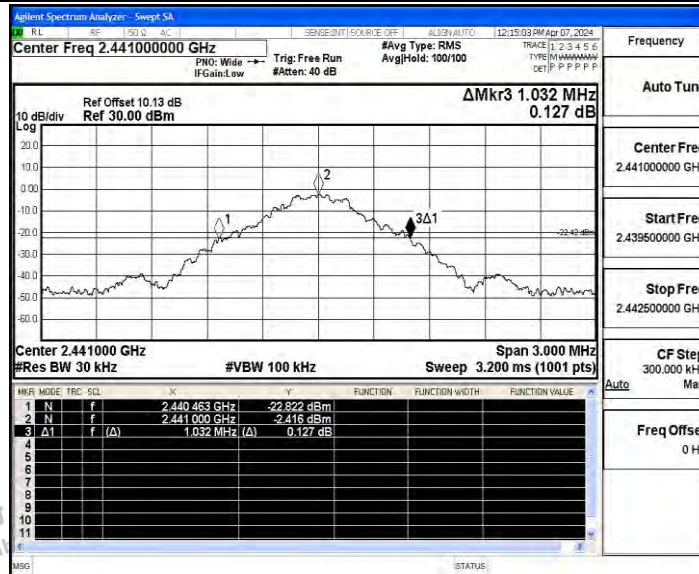


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

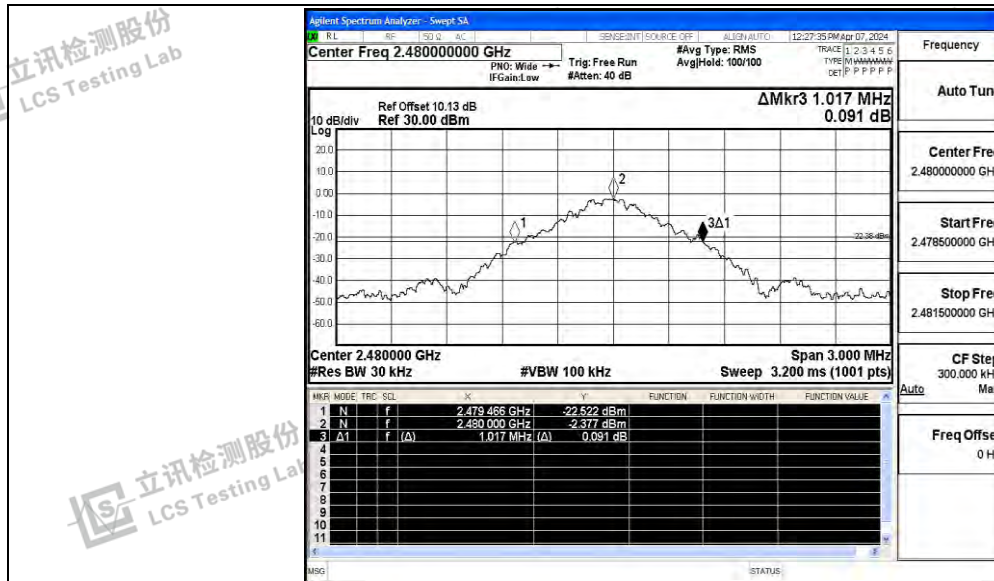


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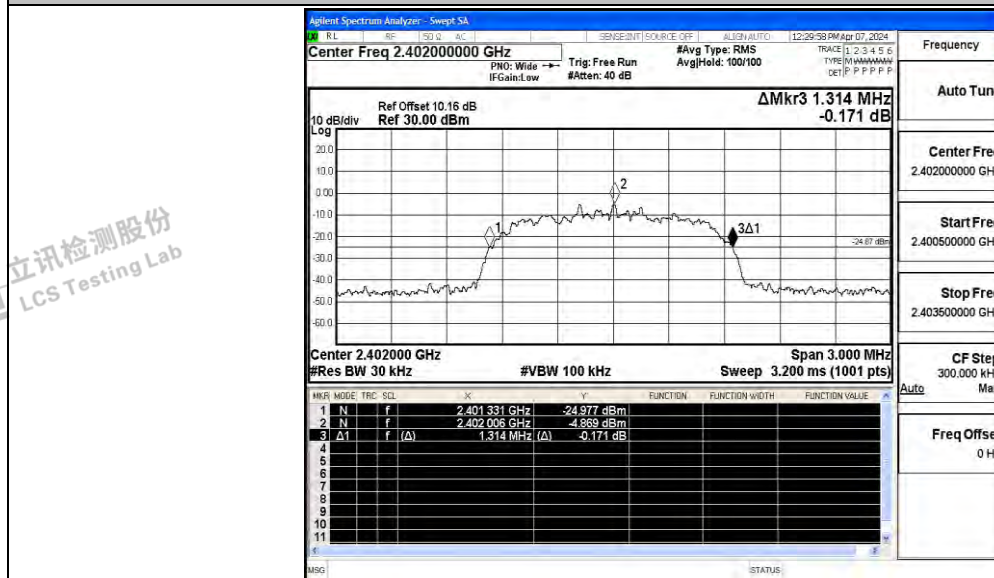
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2DH5_Ant_2402



2DH5_Ant_2441

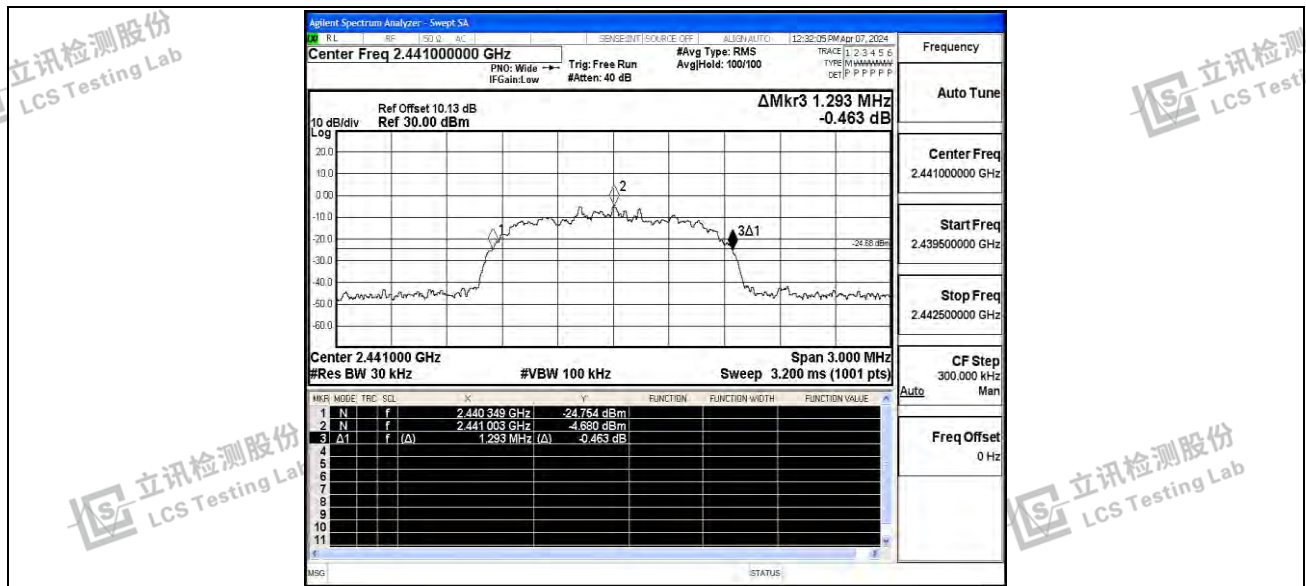


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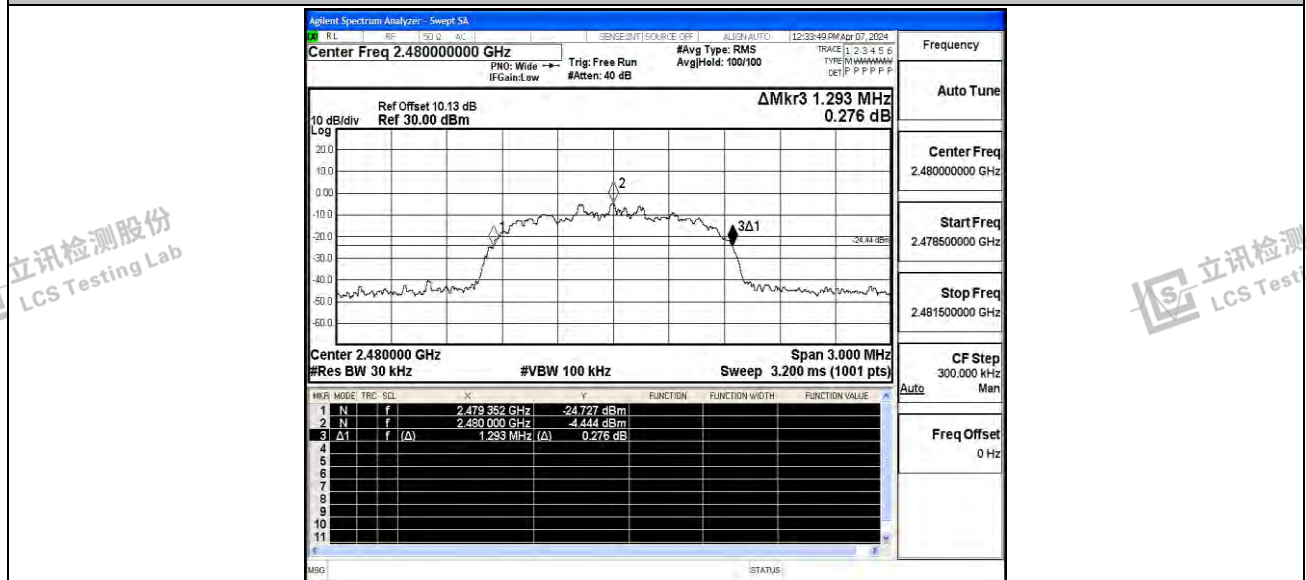
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2DH5_Ant_2480



3DH5_Ant_2402

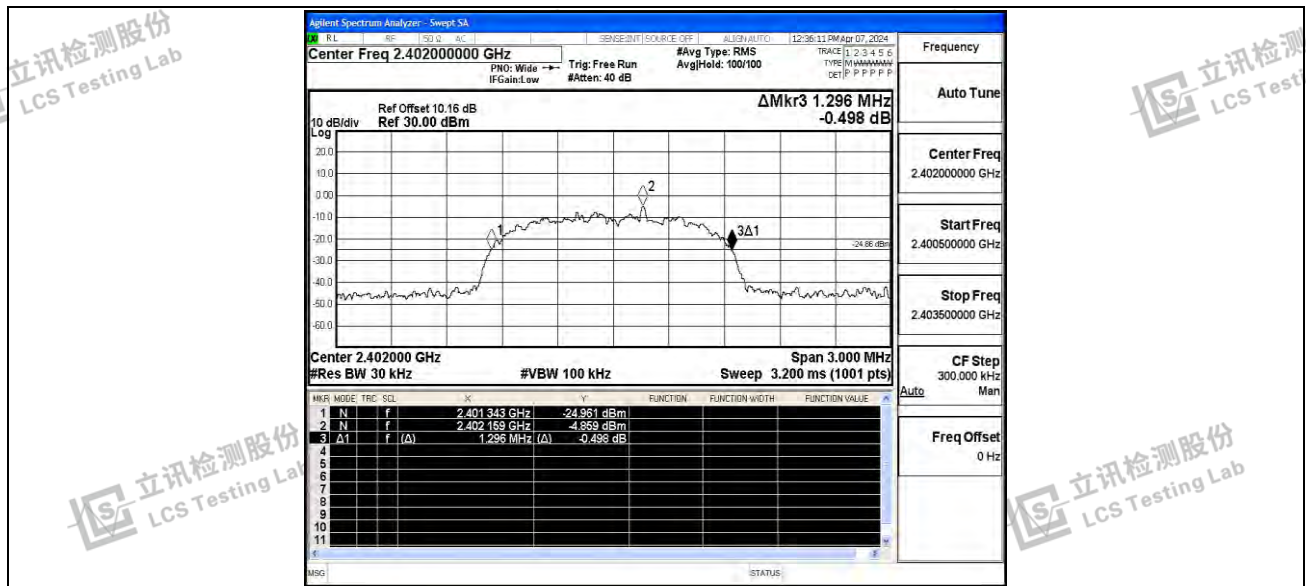


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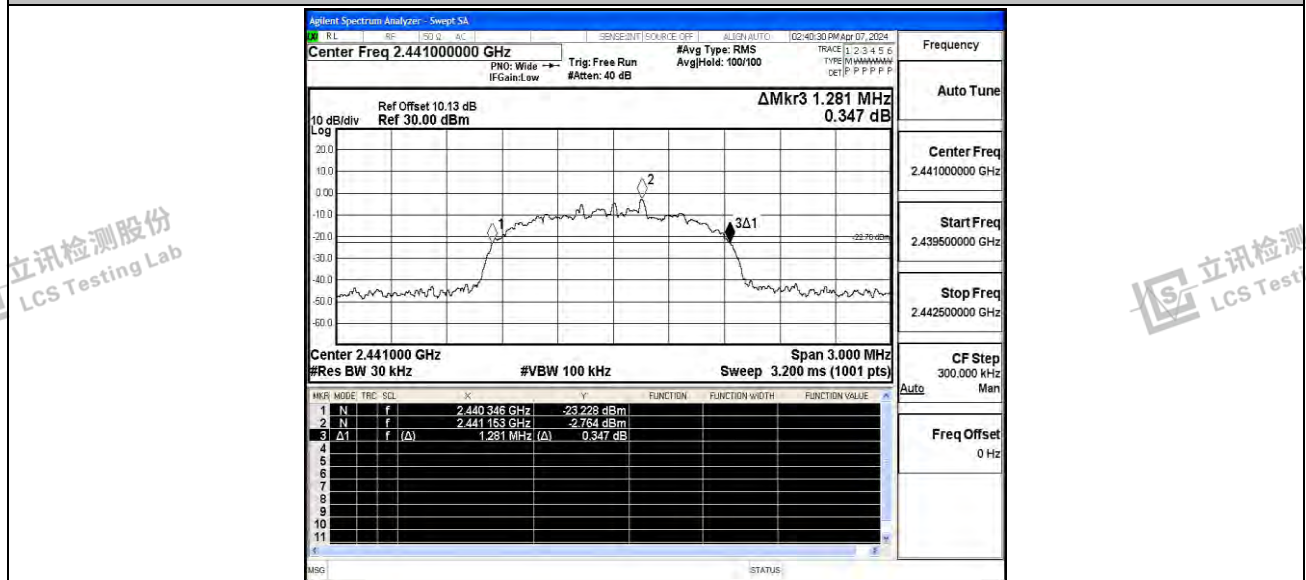
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3DH5_Ant_2441



3DH5_Ant_2480

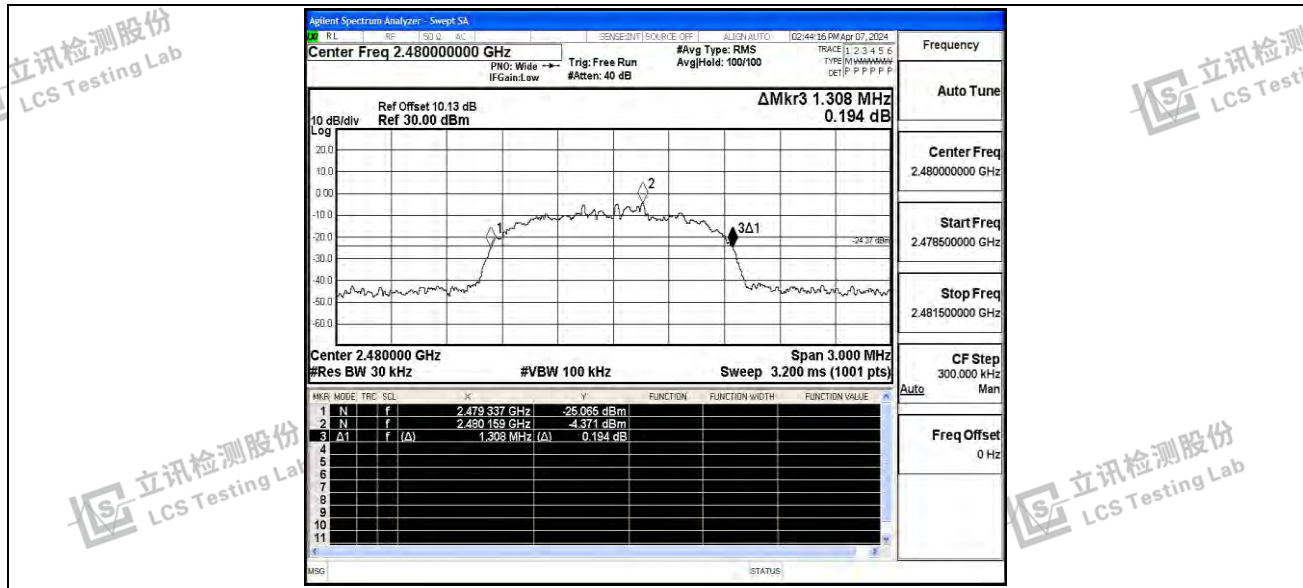


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A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant	2402	0.52	≤20.97	PASS
		2441	0.67	≤20.97	PASS
		2480	0.67	≤20.97	PASS
2DH5	Ant	2402	0.22	≤20.97	PASS
		2441	0.34	≤20.97	PASS
		2480	0.46	≤20.97	PASS
3DH5	Ant	2402	0.35	≤20.97	PASS
		2441	0.69	≤20.97	PASS
		2480	0.78	≤20.97	PASS



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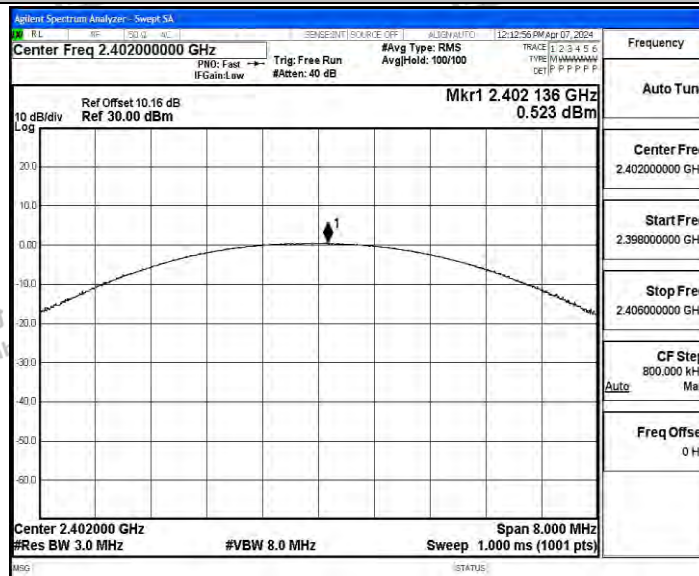
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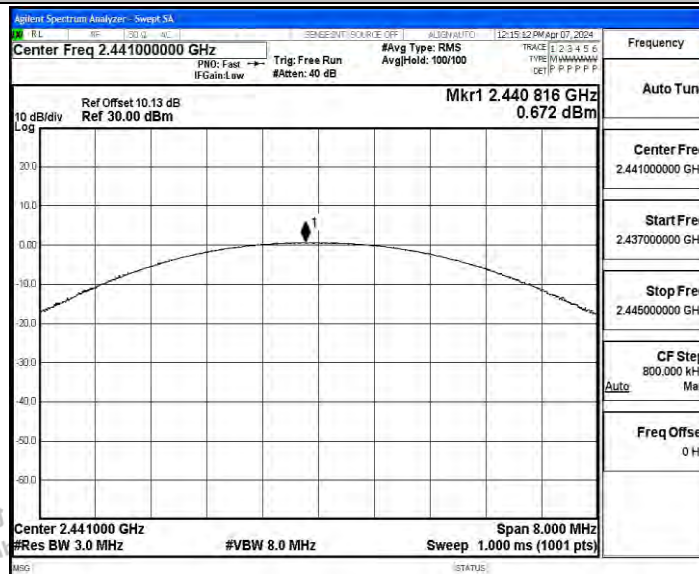


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

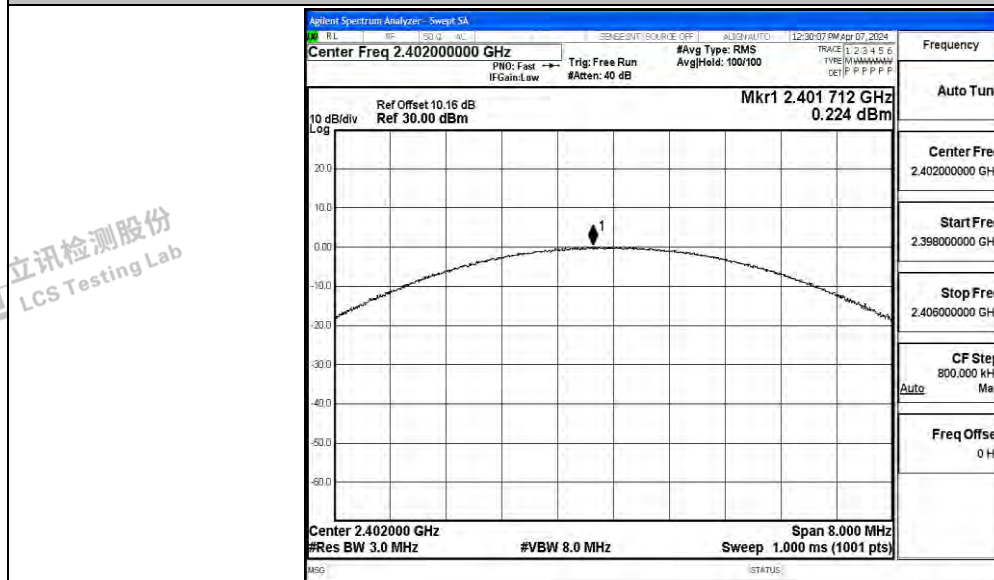
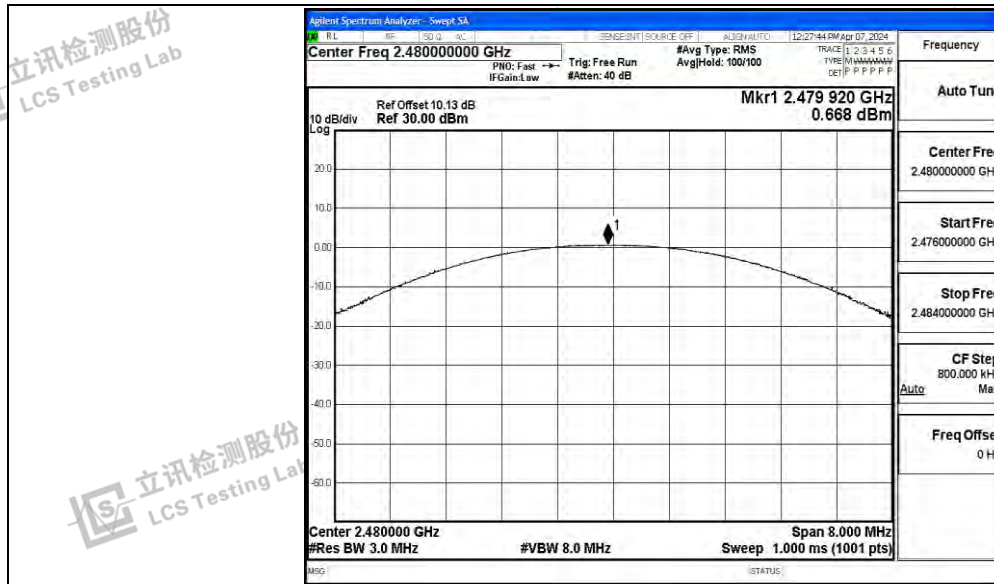


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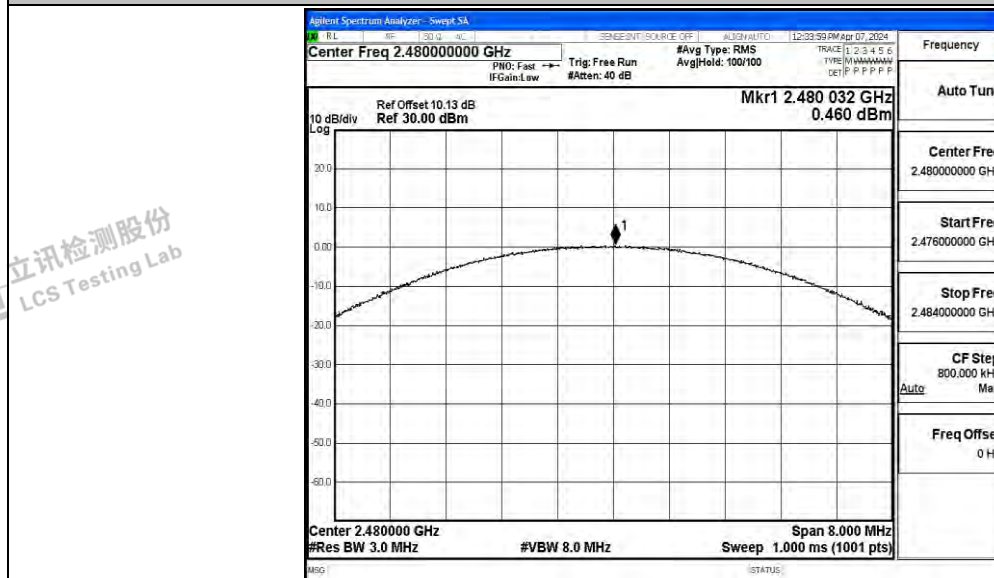
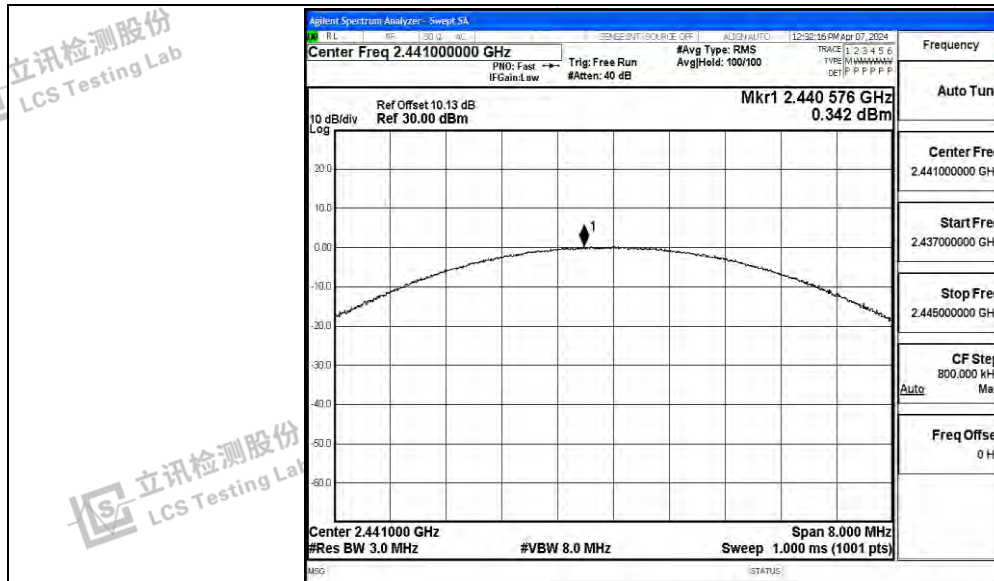


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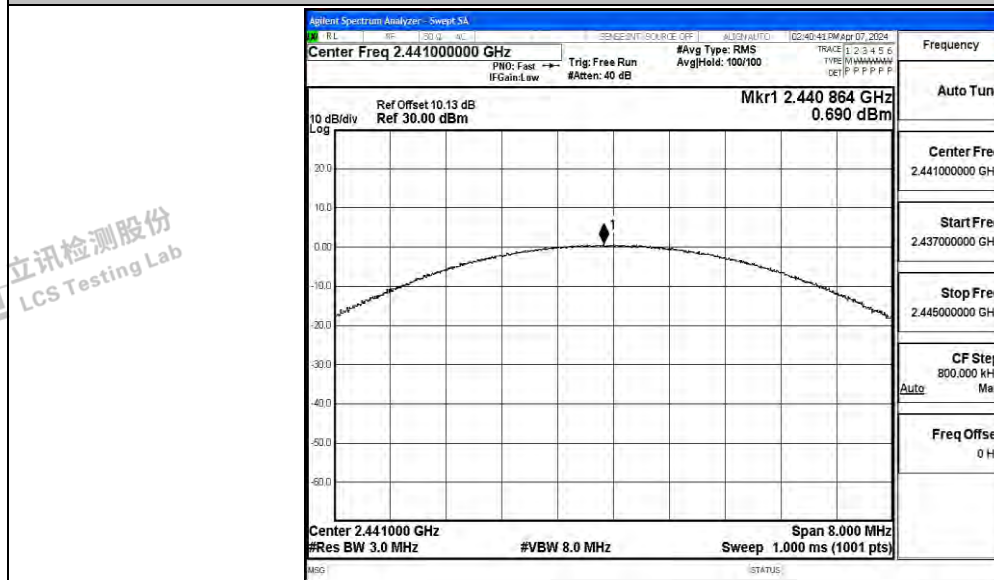
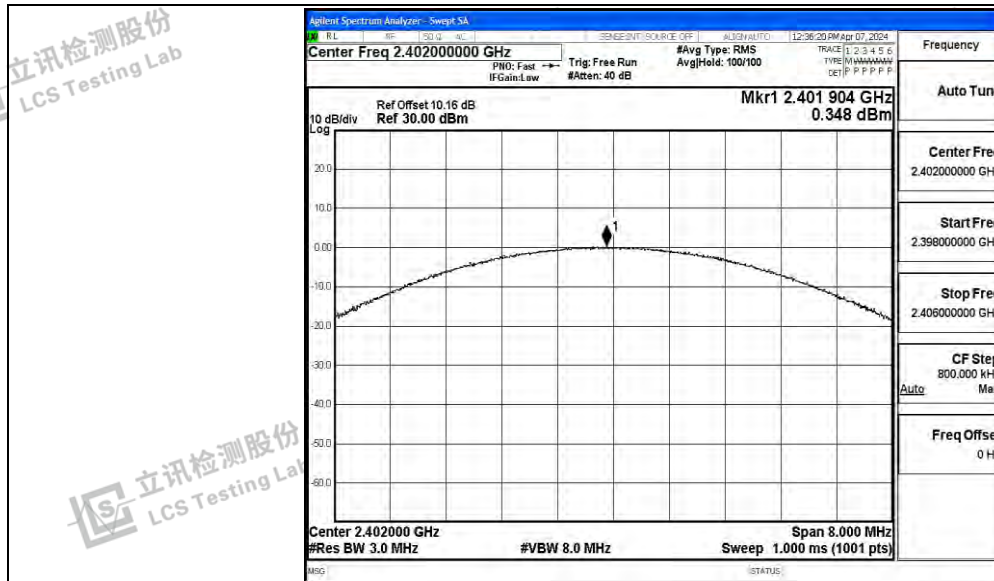


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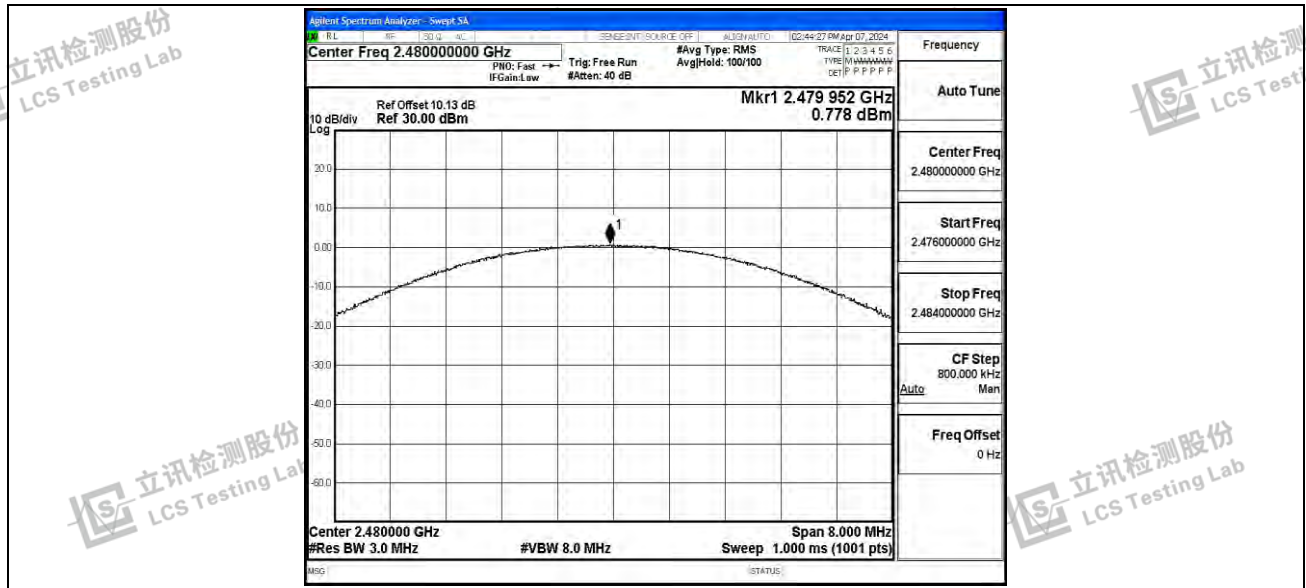


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.184	≥ 0.688	PASS
2DH5	Ant	Hop	1.05	≥ 0.876	PASS
3DH5	Ant	Hop	1.098	≥ 0.872	PASS



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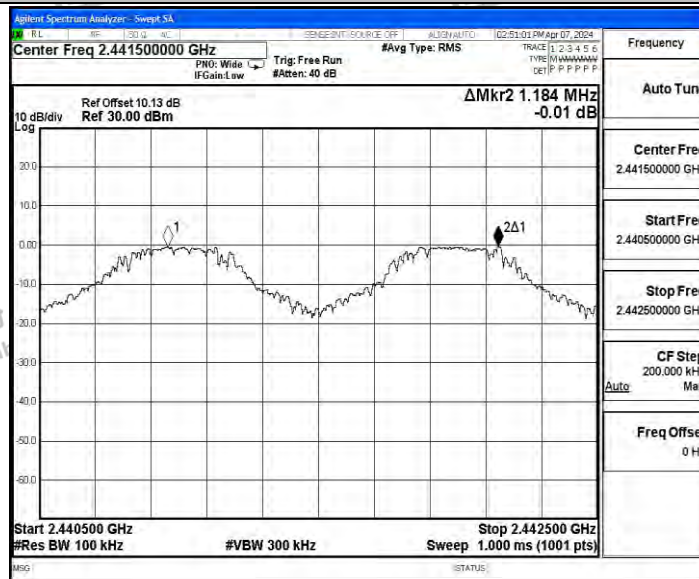
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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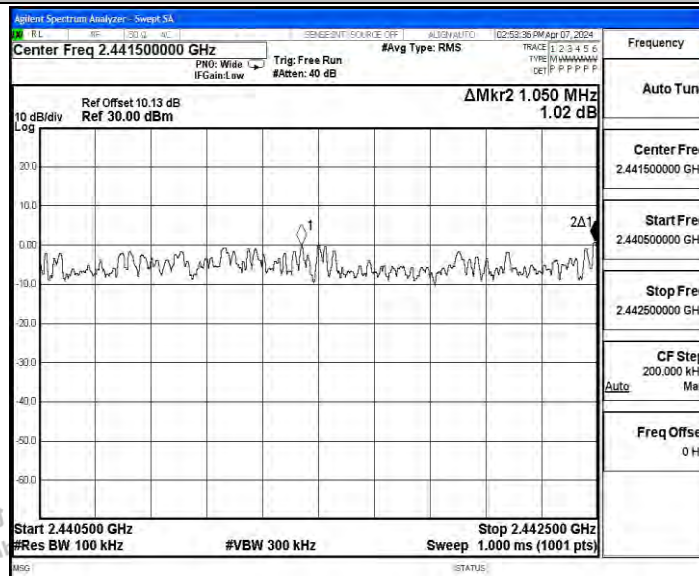


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

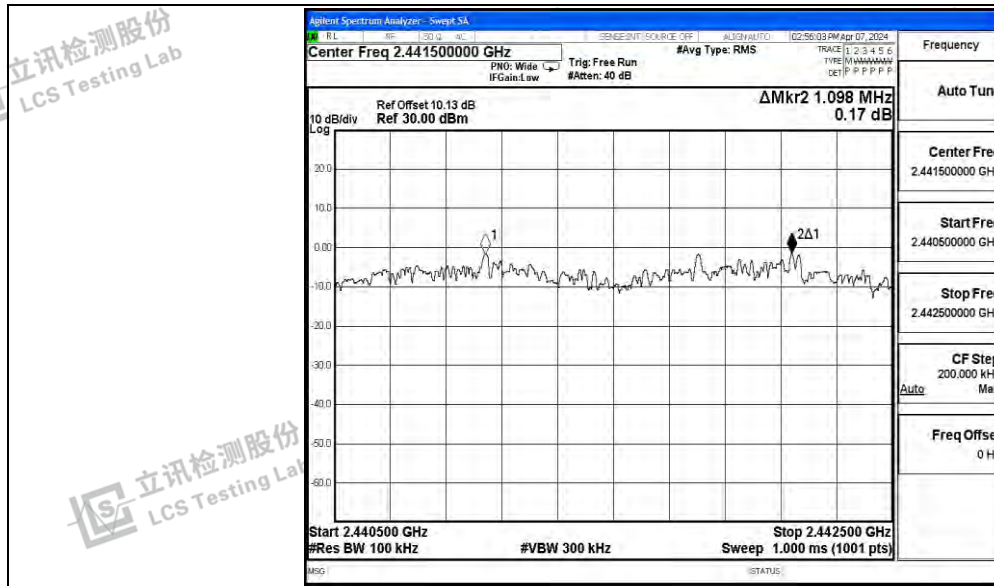


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A.4 Time of occupancy

Test Result

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



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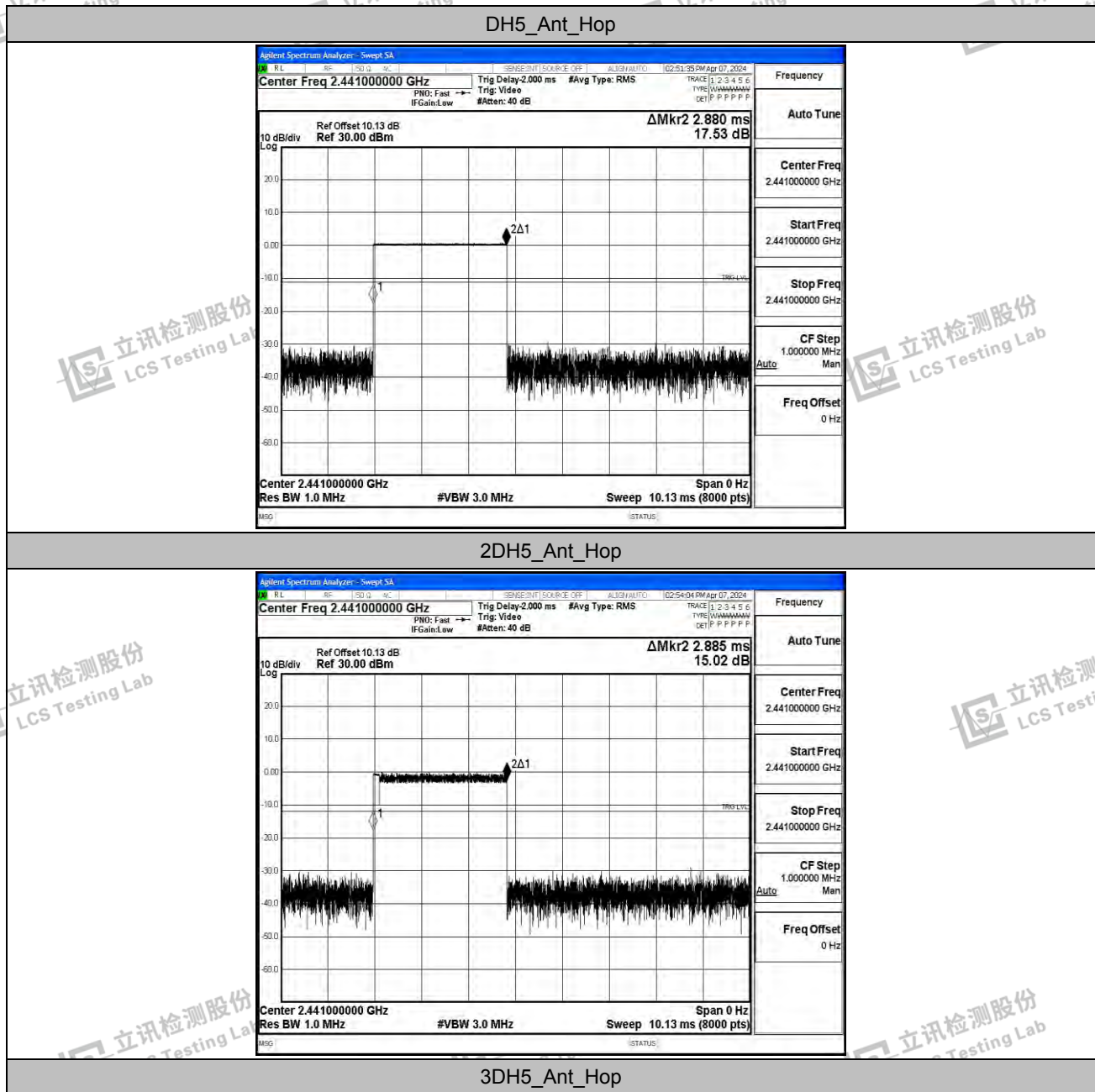
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Test Graphs

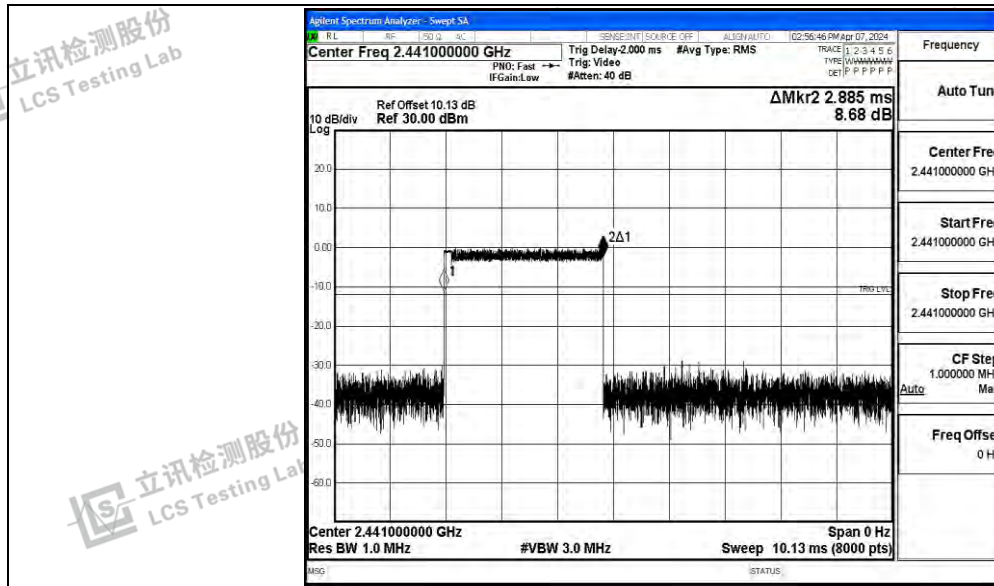


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A.5 Number of hopping channels

Test Result

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



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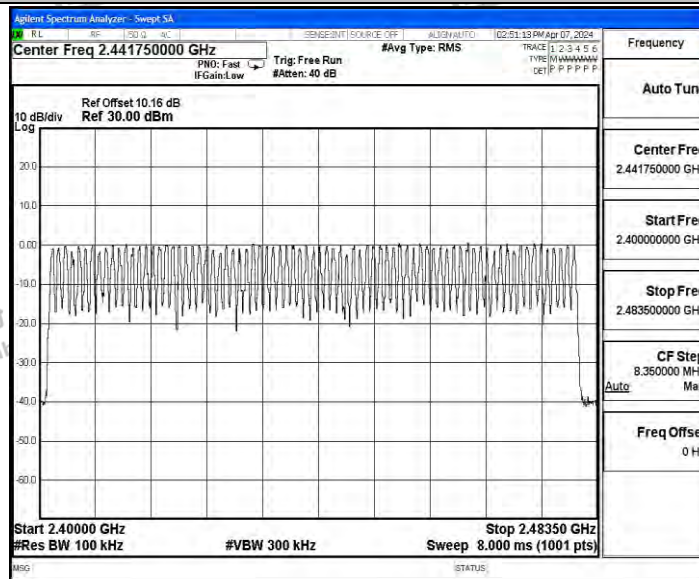
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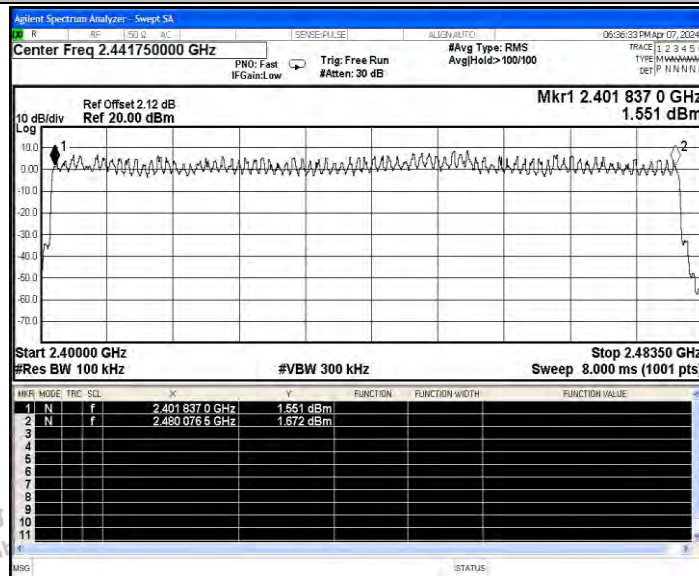


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

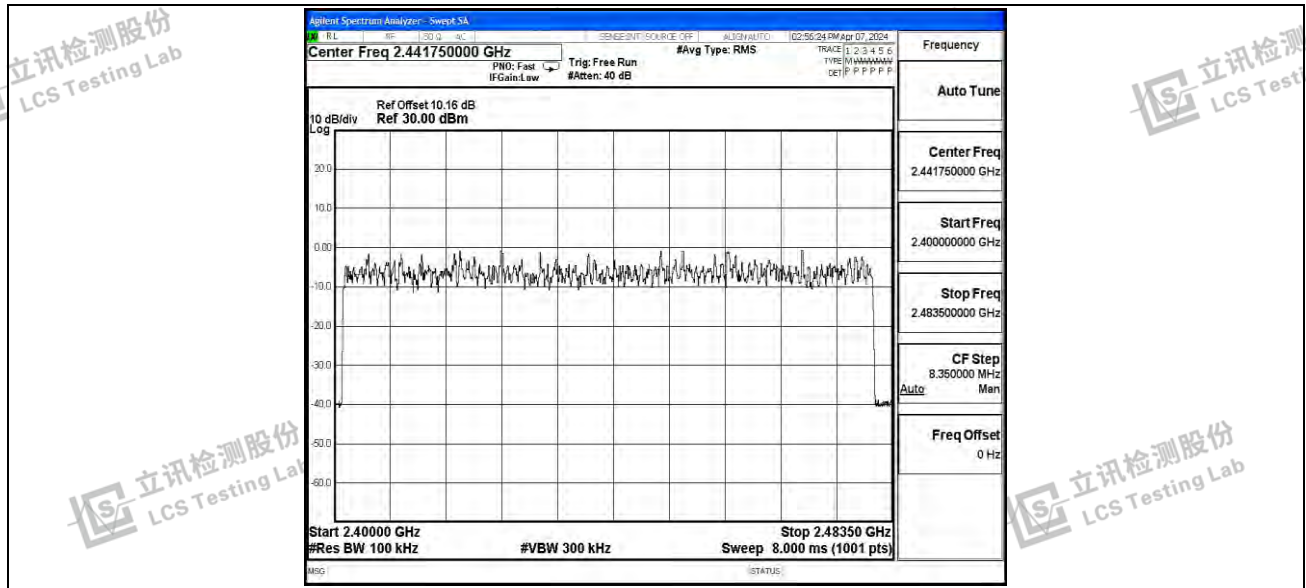


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-0.31	-48.16	≤ -20.31	PASS
		High	2480	-0.46	-48.93	≤ -20.46	PASS
		Low	Hop_2402	-0.89	-47.68	≤ -20.89	PASS
		High	Hop_2480	0.15	-47.12	≤ -19.85	PASS
2DH5	Ant	Low	2402	-1.22	-48.67	≤ -21.22	PASS
		High	2480	-1.55	-48.63	≤ -21.55	PASS
		Low	Hop_2402	-5.05	-47.46	≤ -25.05	PASS
		High	Hop_2480	-3.65	-47.01	≤ -23.65	PASS
3DH5	Ant	Low	2402	-2.07	-48.38	≤ -22.07	PASS
		High	2480	-1.41	-48.2	≤ -21.41	PASS
		Low	Hop_2402	-2.14	-48.04	≤ -22.14	PASS
		High	Hop_2480	-2.44	-47.65	≤ -22.44	PASS



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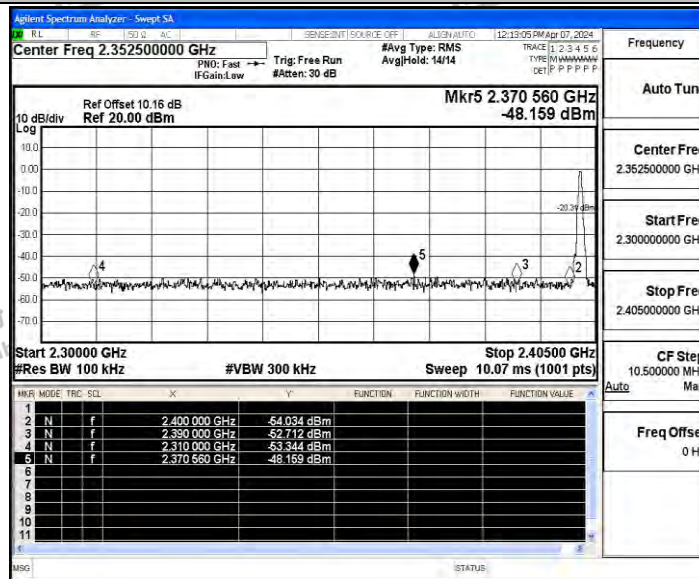
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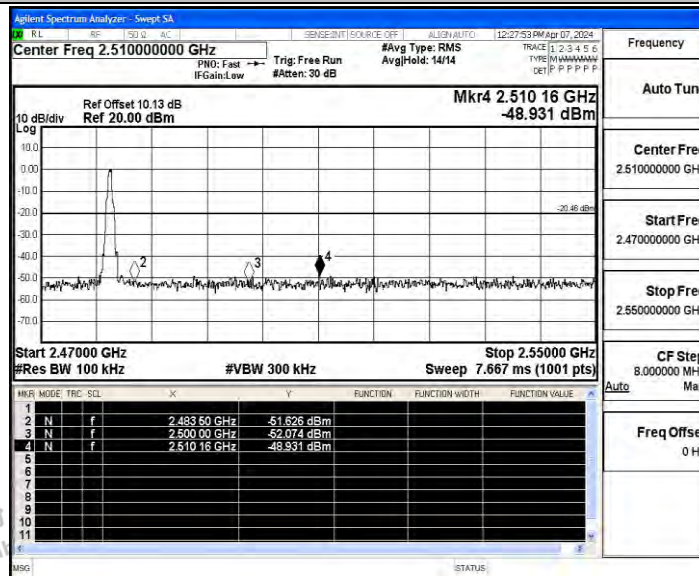


Test Graphs

DH5_Ant_Low_2402



DH5_Ant_High_2480



DH5_Ant_Low_Hop_2402

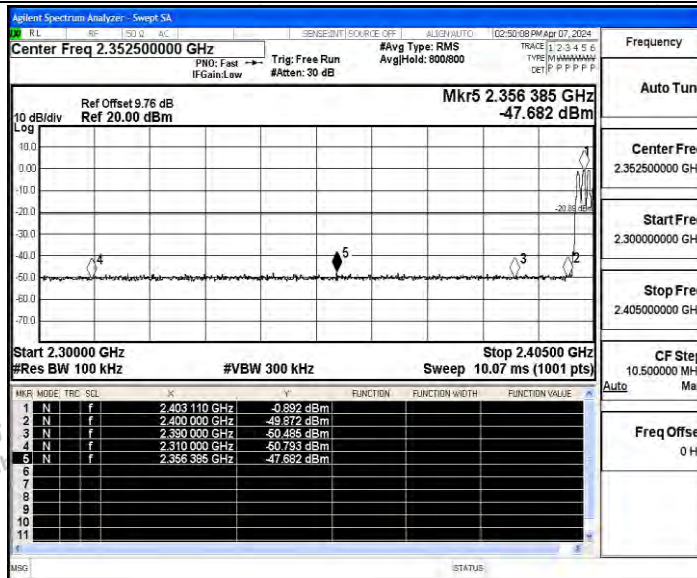


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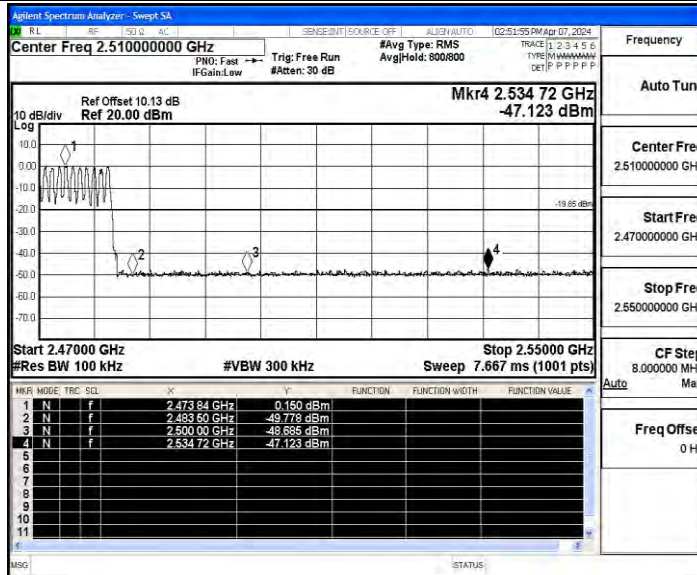
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

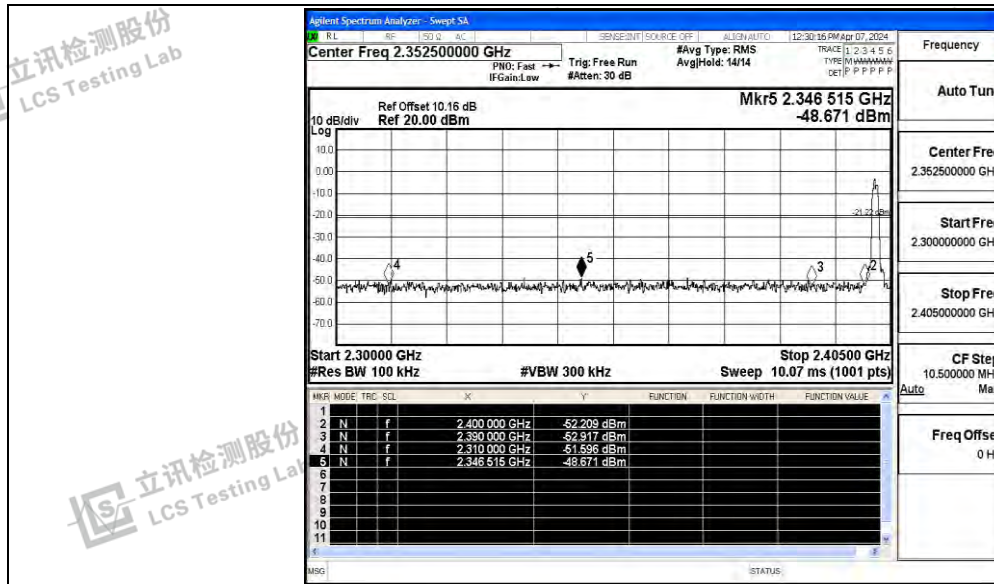


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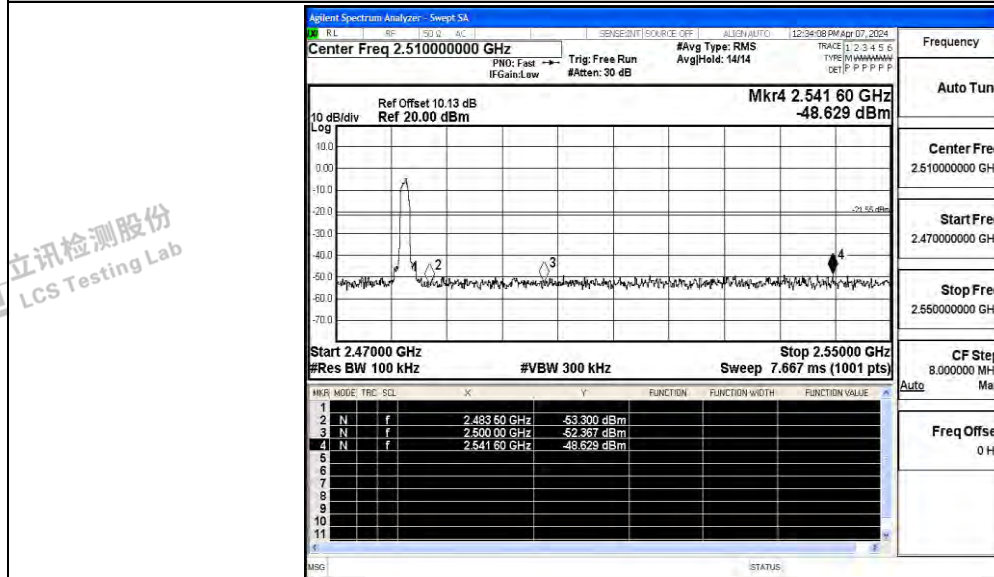
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402

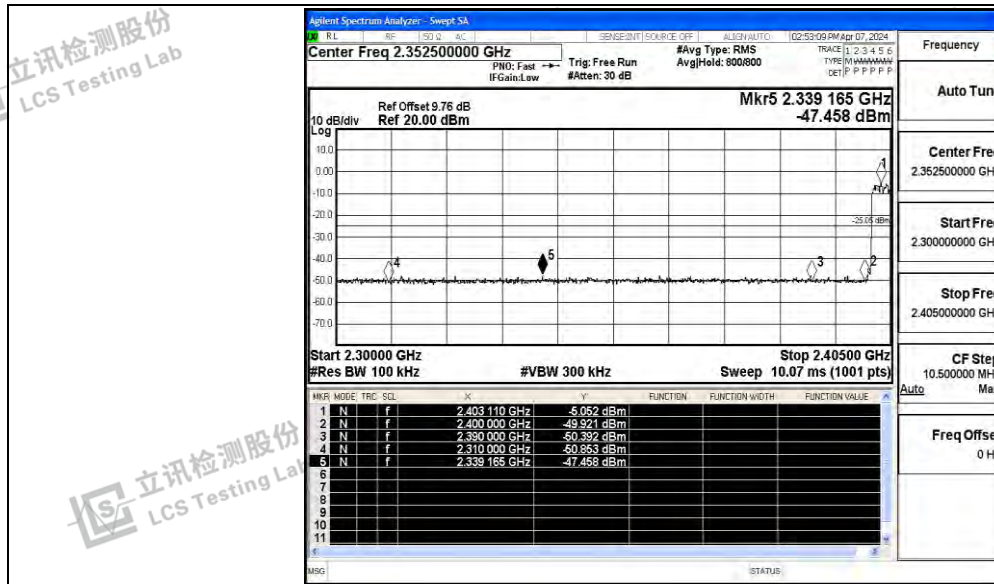


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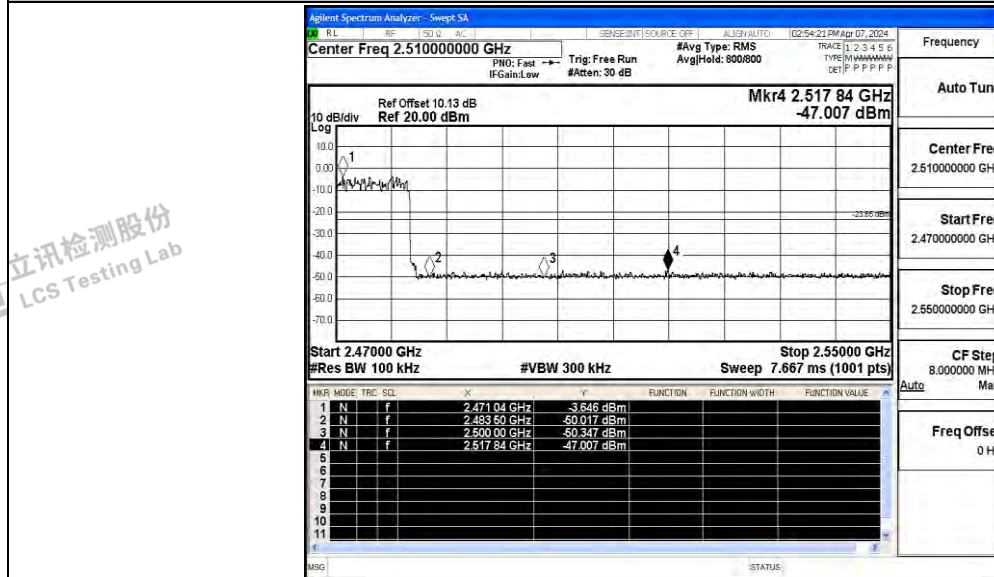
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2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

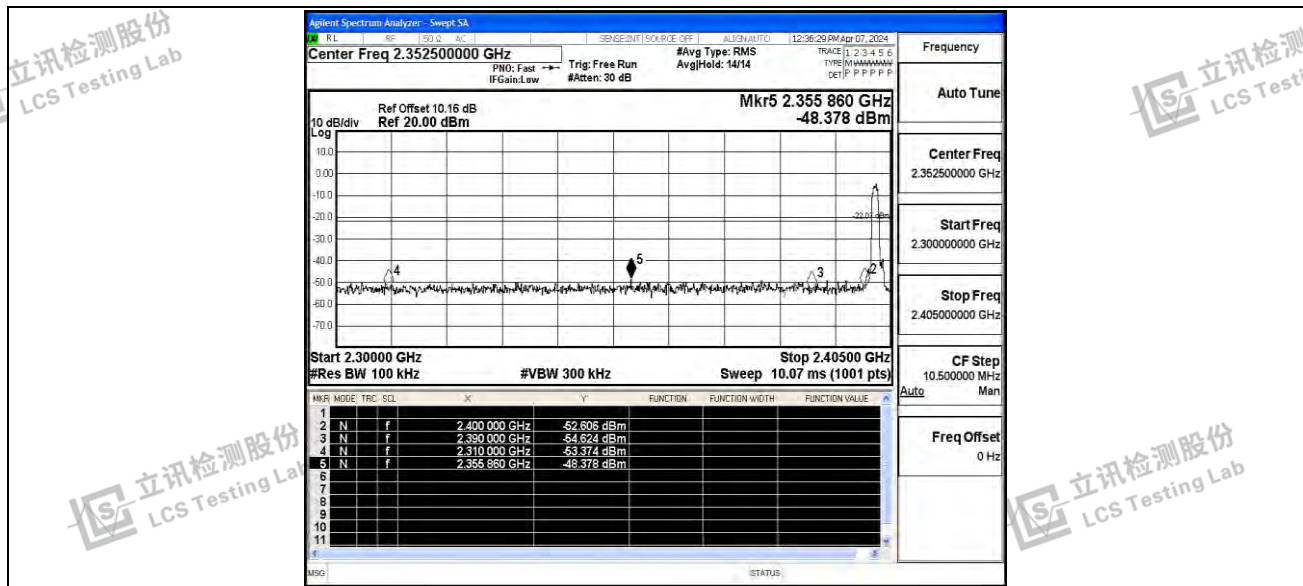


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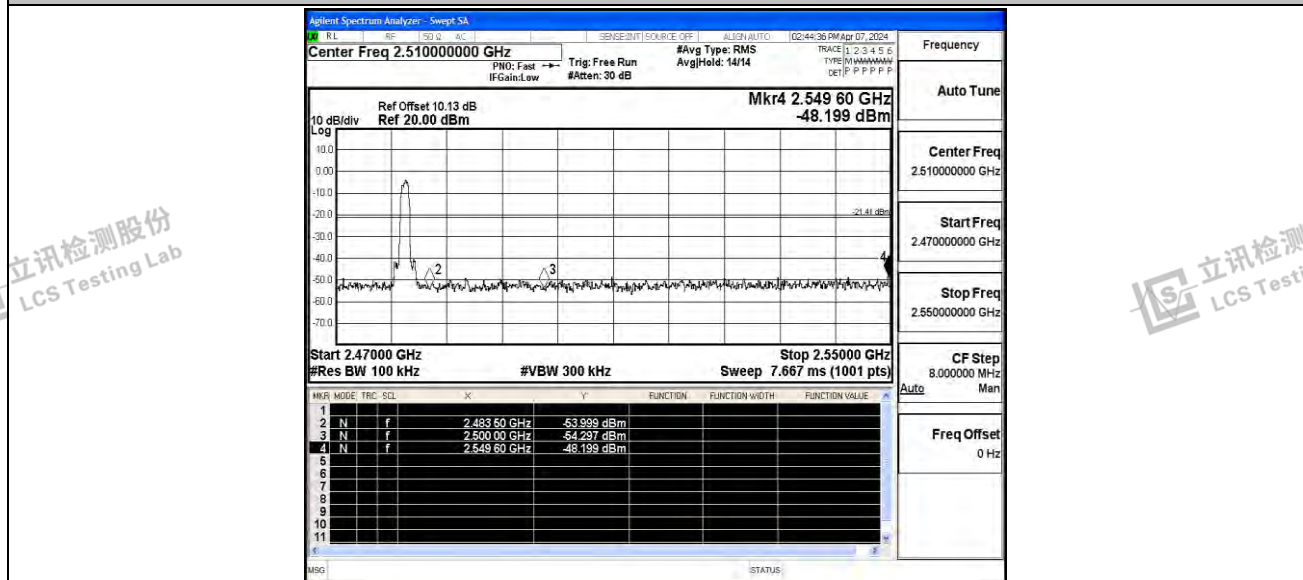
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3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402

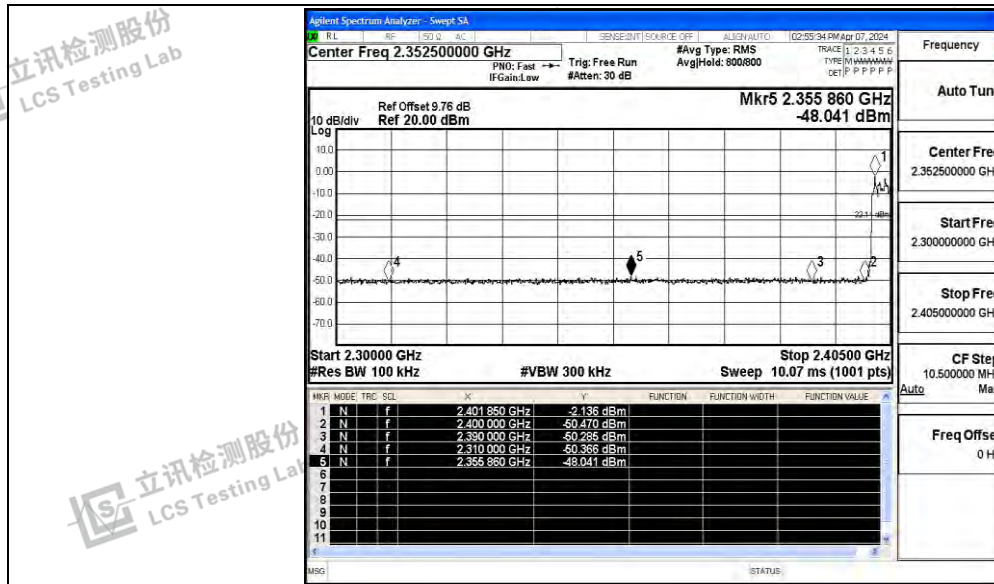


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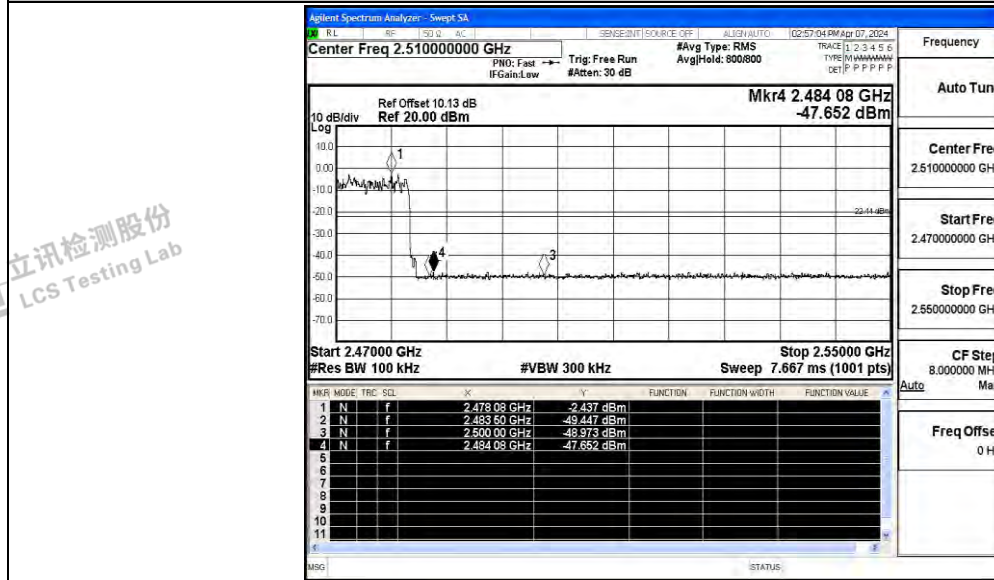
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3DH5_Ant_High_Hop_2480



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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	Ant	2402	30~1000	-0.31	-59.48	≤ -20.31	PASS
			1000~26500	-0.31	-47.21	≤ -20.31	PASS
		2441	30~1000	-0.54	-60.03	≤ -20.54	PASS
			1000~26500	-0.54	-47.28	≤ -20.54	PASS
		2480	30~1000	-0.46	-59.55	≤ -20.46	PASS
			1000~26500	-0.46	-46.81	≤ -20.46	PASS
2DH5	Ant	2402	30~1000	-1.22	-58.68	≤ -21.22	PASS
			1000~26500	-1.22	-46.73	≤ -21.22	PASS
		2441	30~1000	-1.05	-59.57	≤ -21.05	PASS
			1000~26500	-1.05	-46.92	≤ -21.05	PASS
		2480	30~1000	-1.55	-59.38	≤ -21.55	PASS
			1000~26500	-1.55	-47.37	≤ -21.55	PASS
3DH5	Ant	2402	30~1000	-2.07	-59.66	≤ -22.07	PASS
			1000~26500	-2.07	-47.46	≤ -22.07	PASS
		2441	30~1000	-4.20	-59.27	≤ -24.2	PASS
			1000~26500	-4.20	-47.41	≤ -24.2	PASS
		2480	30~1000	-1.41	-59.57	≤ -21.41	PASS
			1000~26500	-1.41	-47.08	≤ -21.41	PASS



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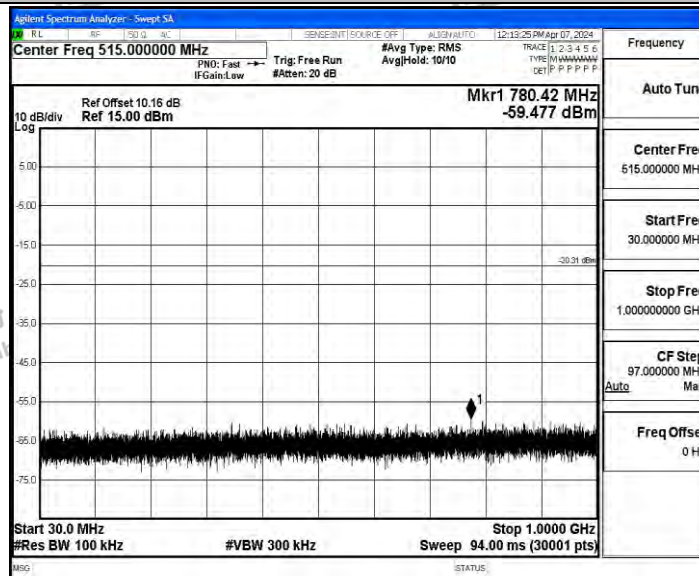
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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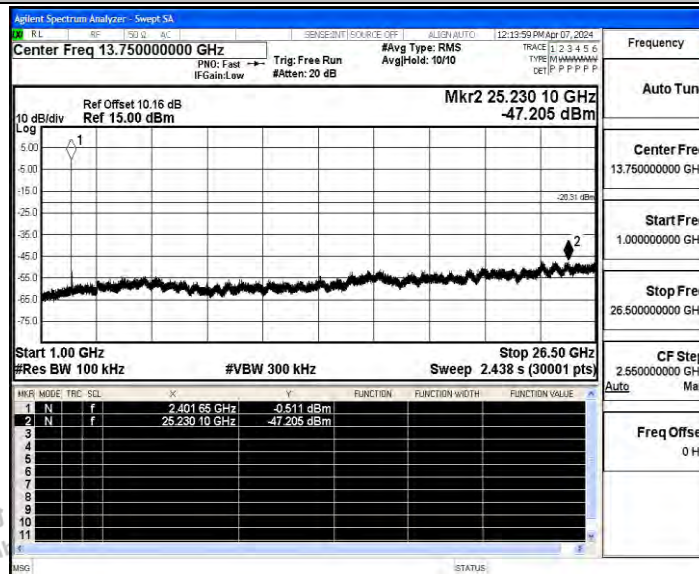


Test Graphs

DH5_Ant_2402_30~1000



DH5_Ant_2402_1000~26500



DH5_Ant_2441_30~1000

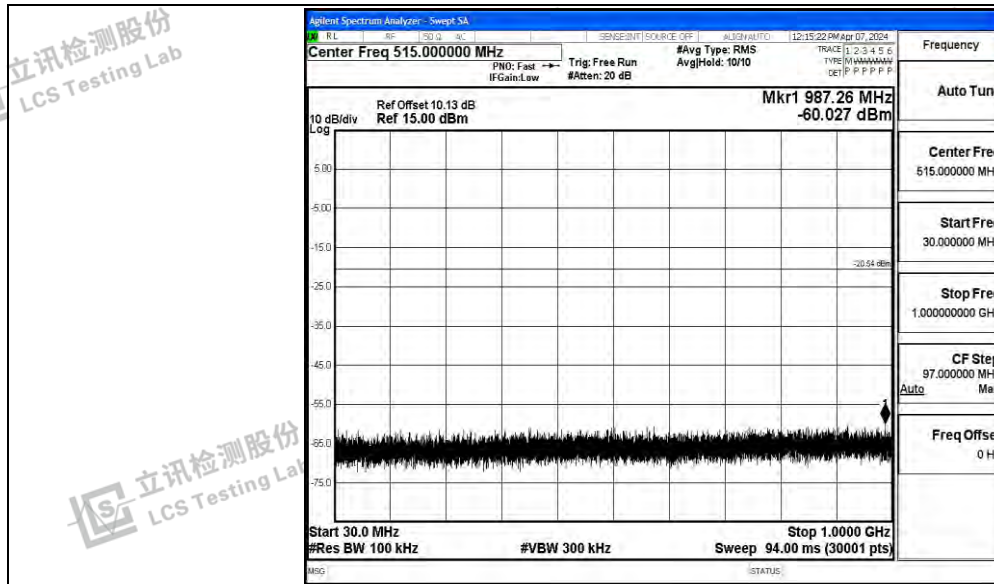


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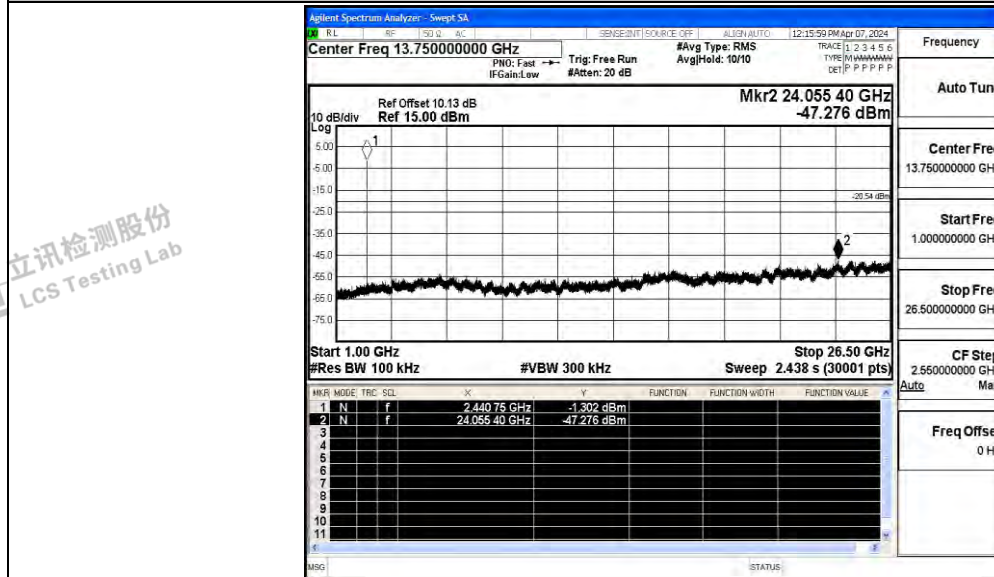
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DH5_Ant_2441_1000~26500



DH5_Ant_2480_30~1000

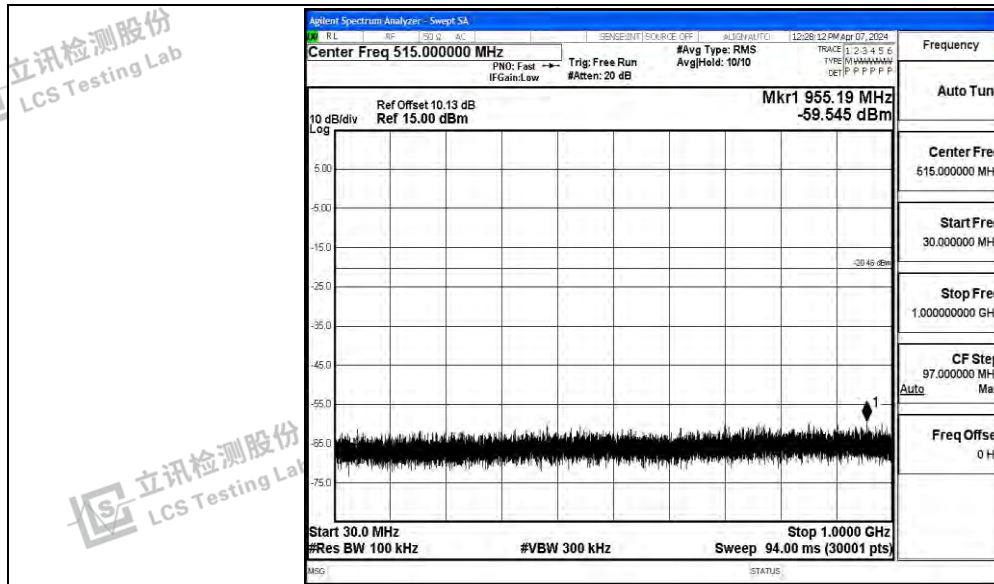


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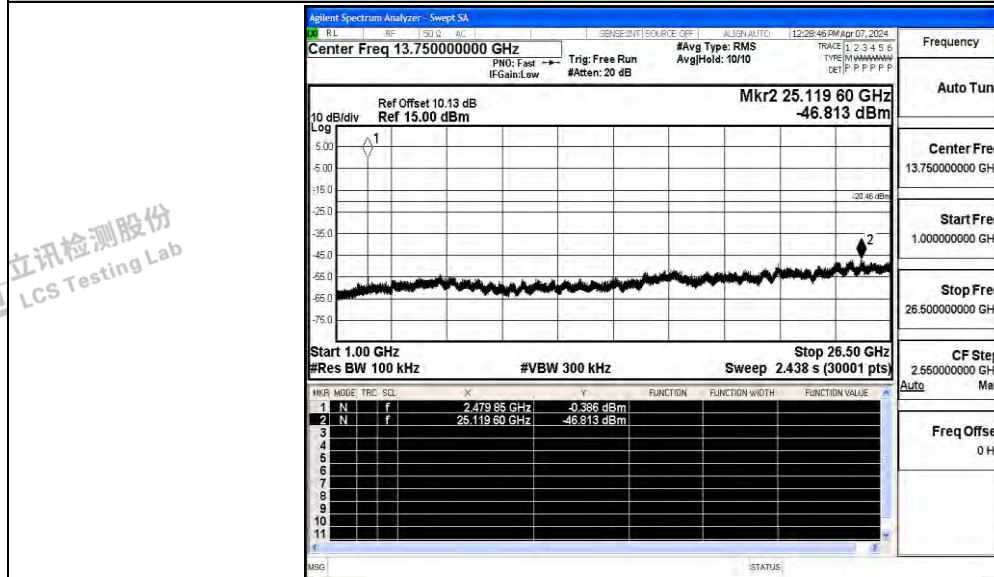
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DH5_Ant_2480_1000~26500



2DH5_Ant_2402_30~1000

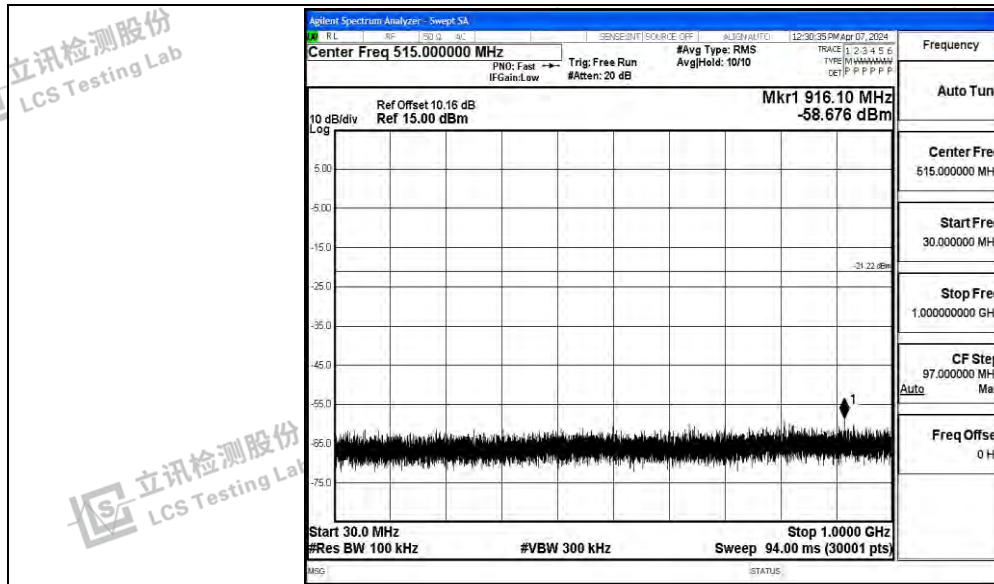


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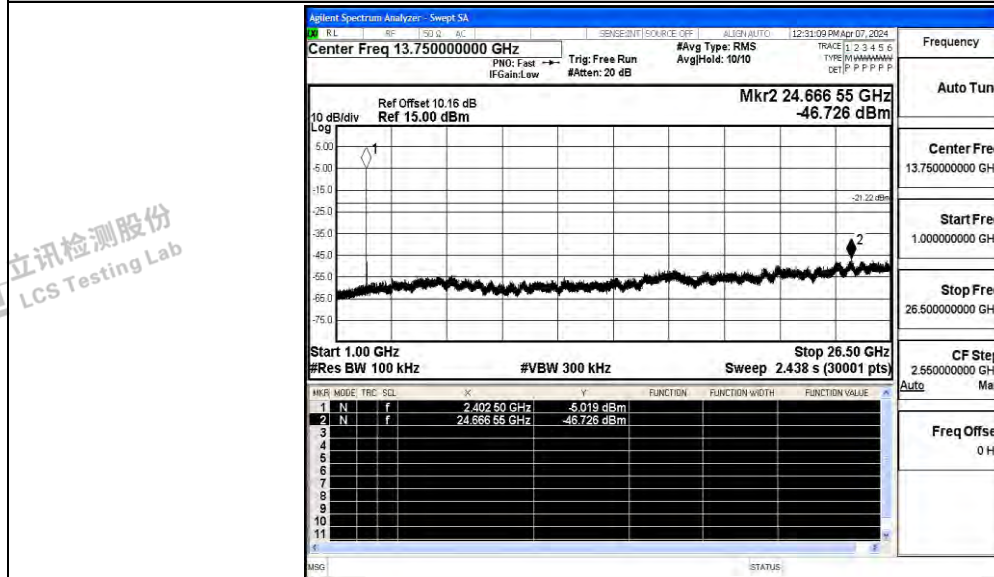
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2DH5_Ant_2402_1000~26500



2DH5_Ant_2441_30~1000

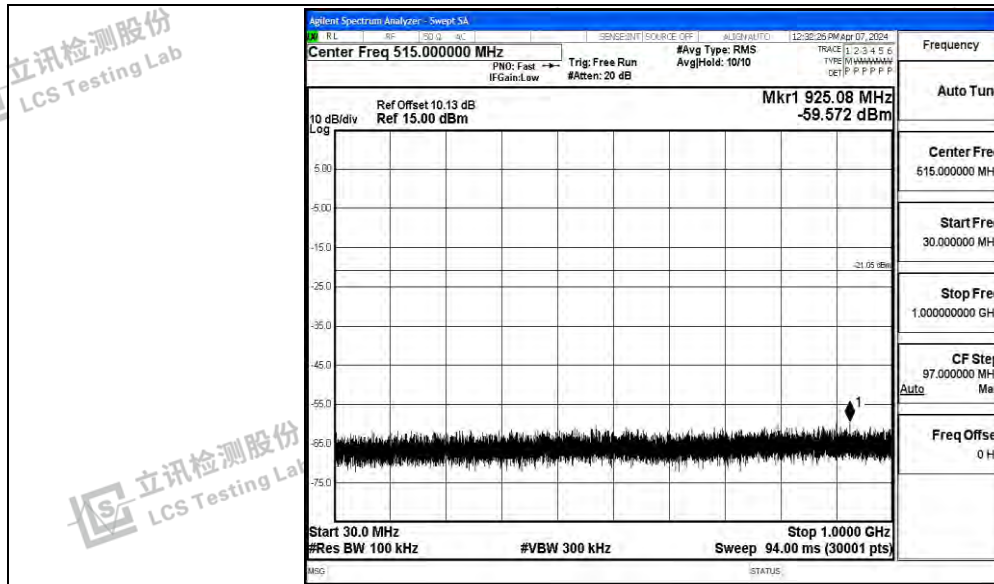


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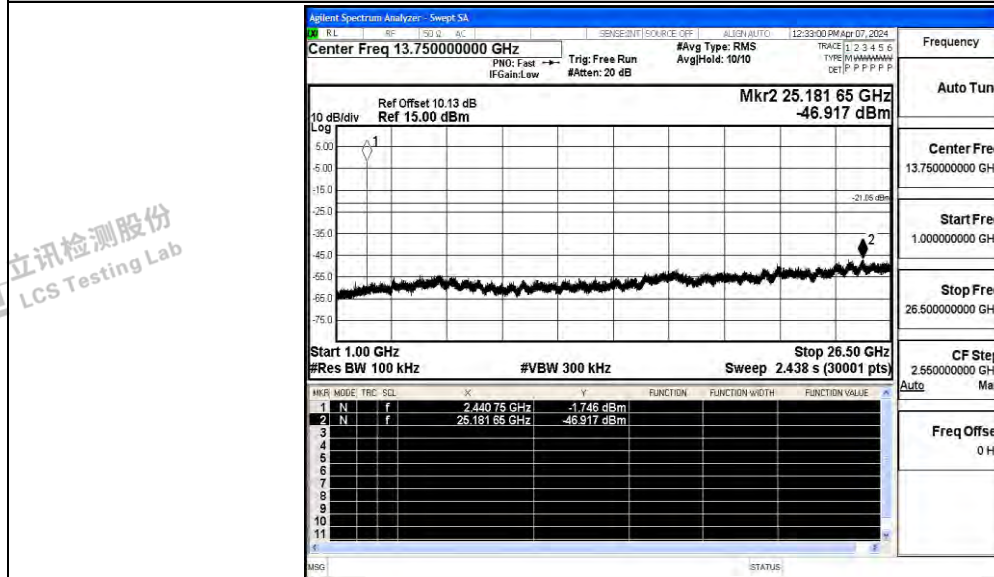
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2DH5_Ant_2441_1000~26500



2DH5_Ant_2480_30~1000

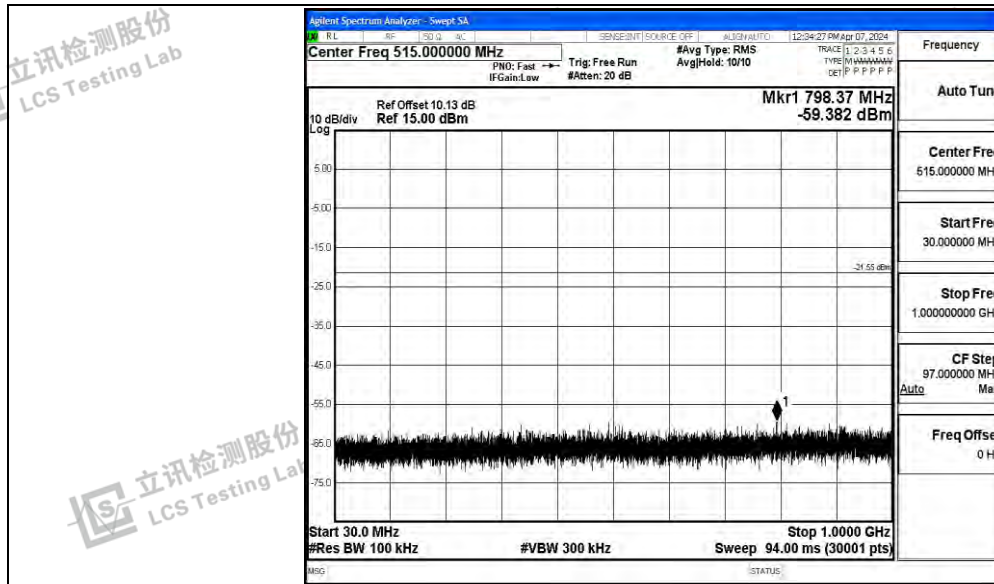


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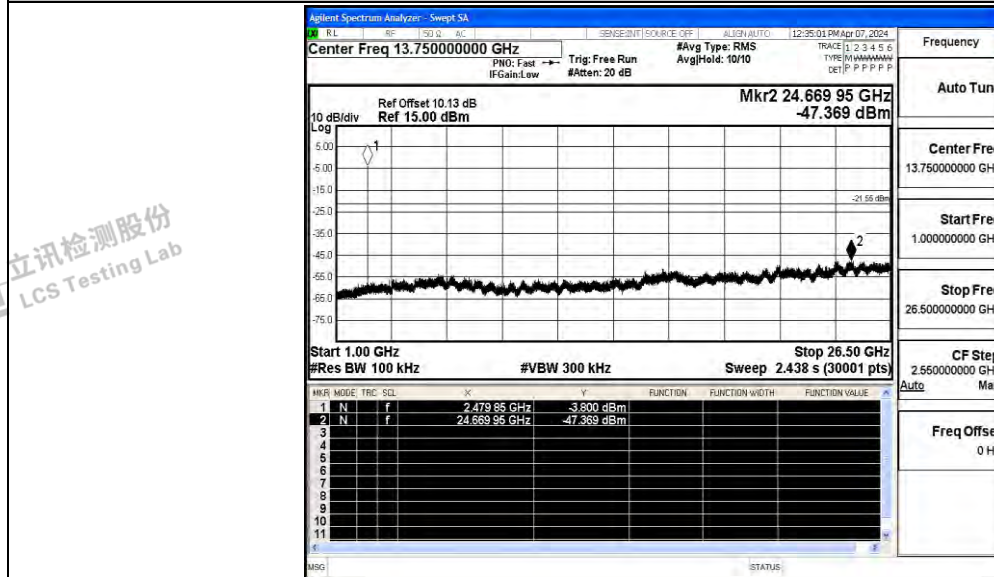
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_30~1000

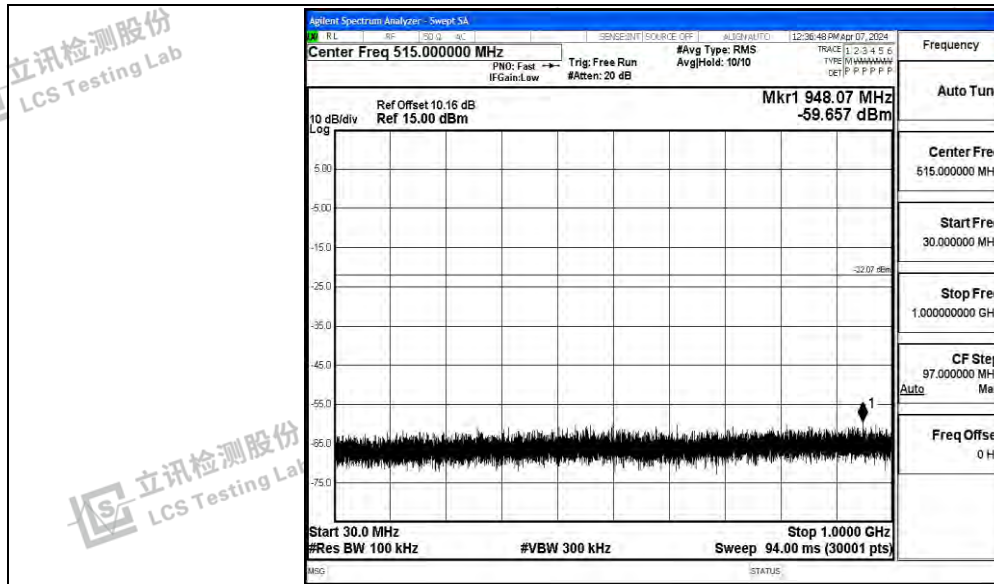


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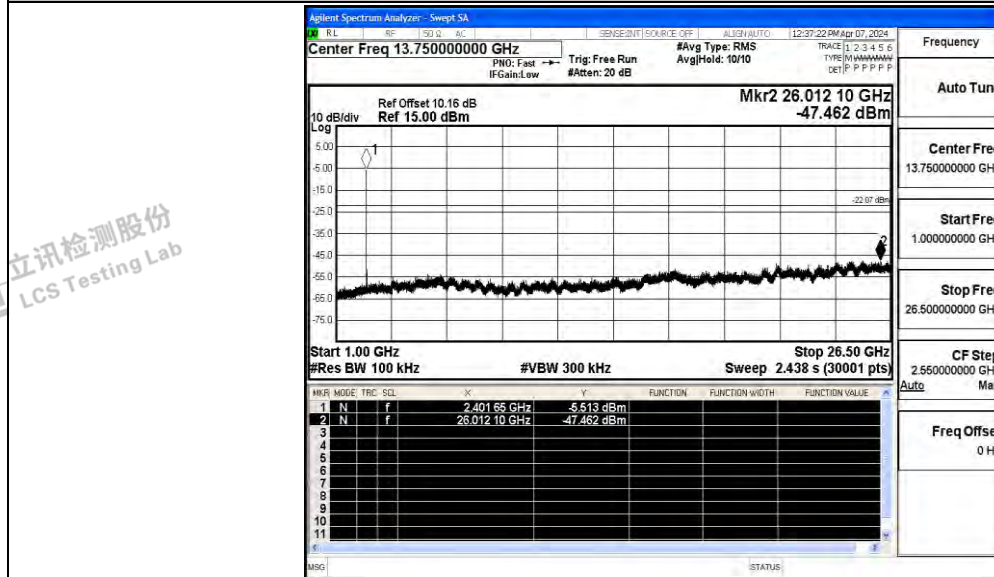
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3DH5_Ant_2402_1000~26500



3DH5_Ant_2441_30~1000

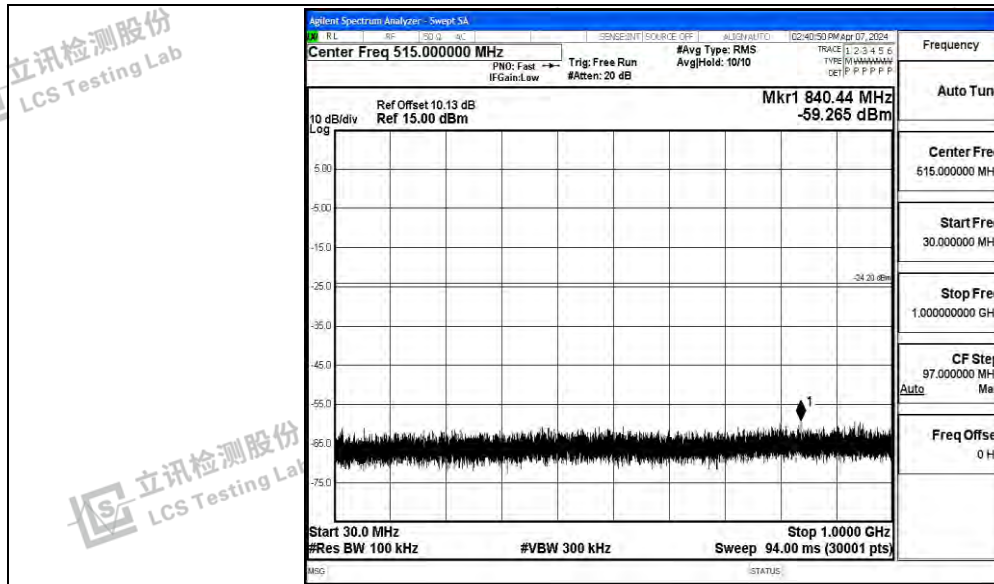


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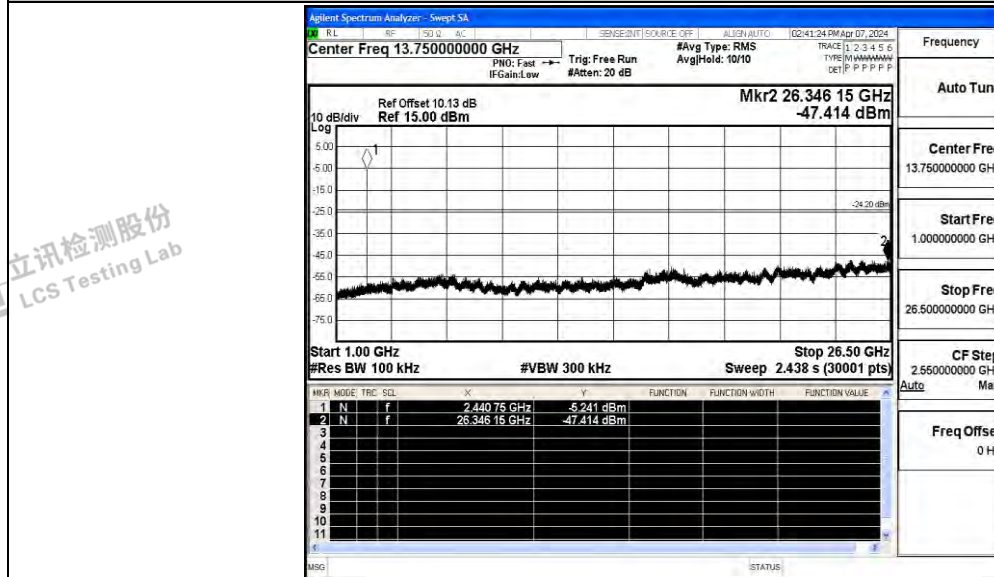
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_30~1000

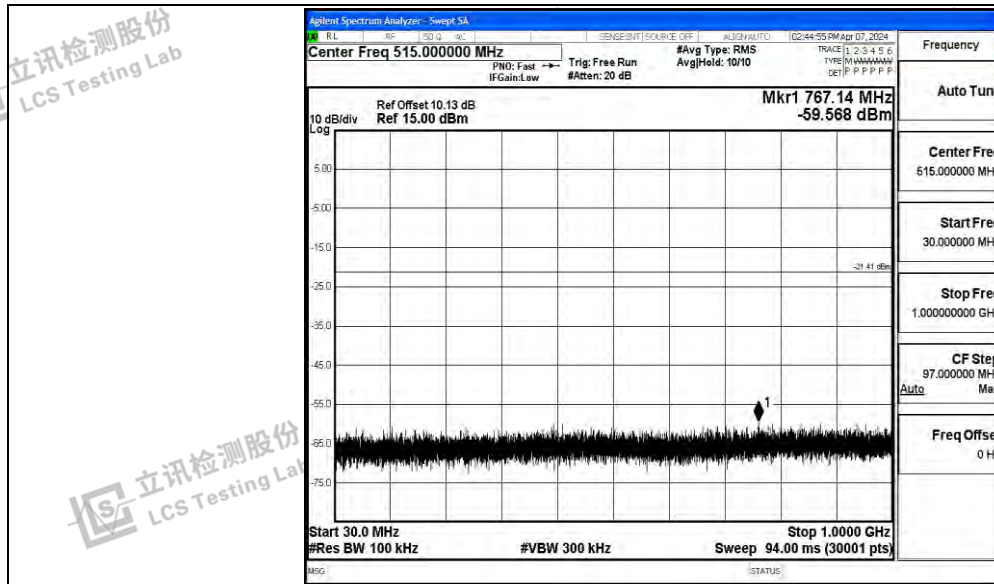


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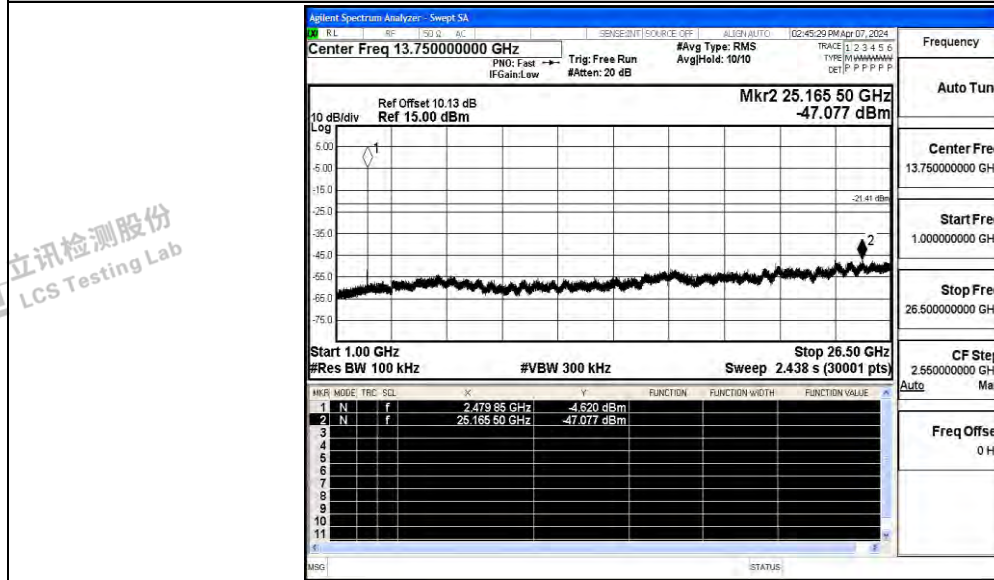
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3DH5_Ant_2480_1000~26500



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Reference Level

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	2401.84	-0.31	---	PASS
		2441	2441.03	-0.54	---	PASS
		2480	2480.04	-0.46	---	PASS
2DH5	Ant	2402	2401.82	-1.22	---	PASS
		2441	2440.83	-1.05	---	PASS
		2480	2479.99	-1.55	---	PASS
3DH5	Ant	2402	2402.13	-2.07	---	PASS
		2441	2441.09	-4.20	---	PASS
		2480	2480.07	-1.41	---	PASS



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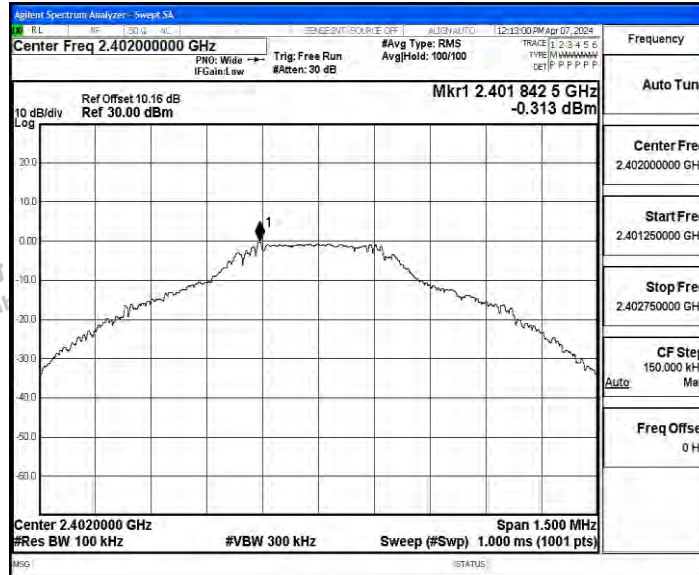
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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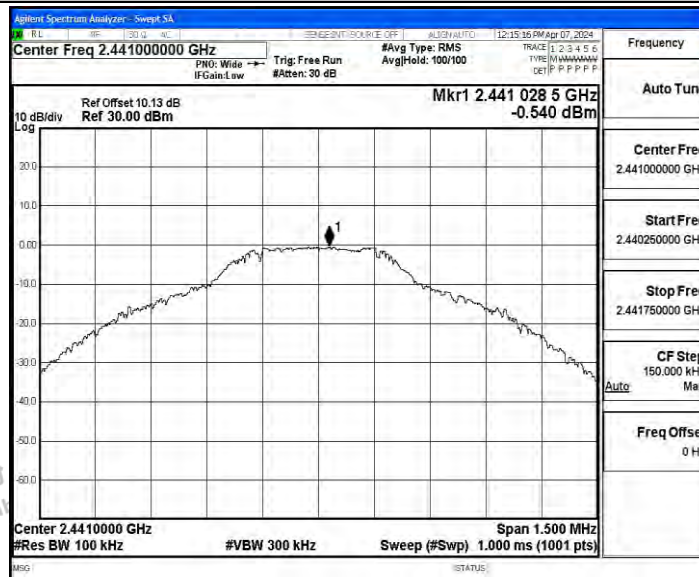


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

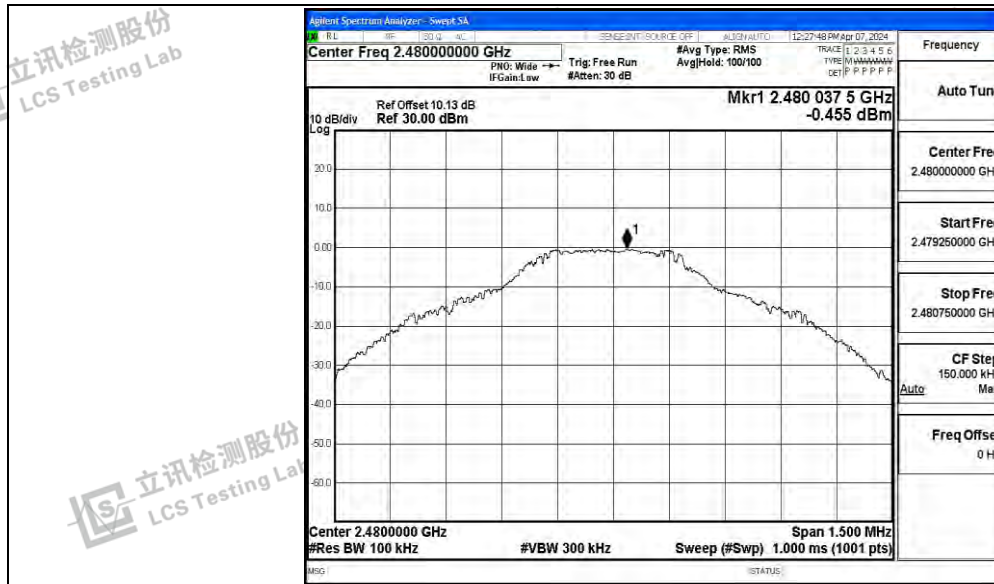


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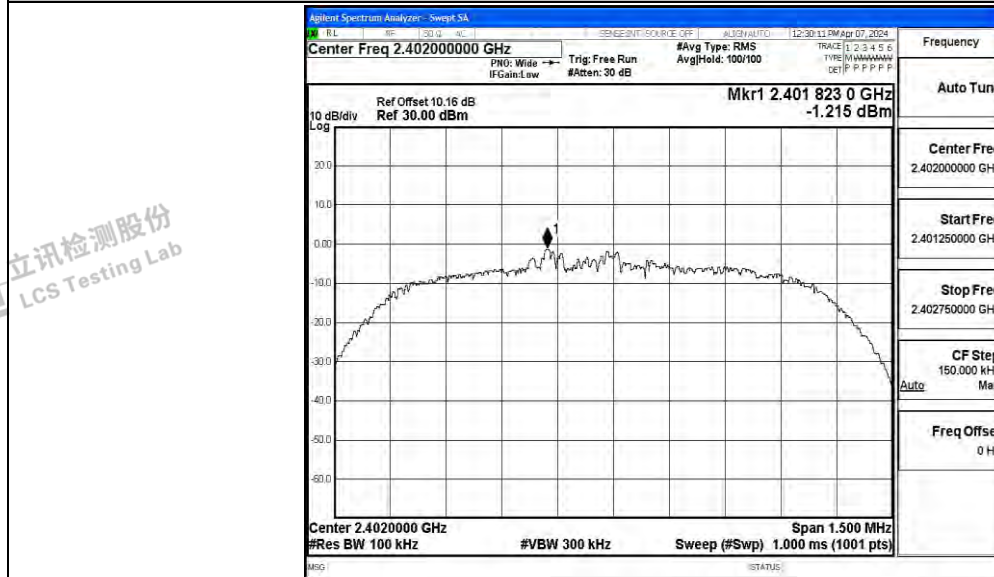
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2DH5_Ant_2402



2DH5_Ant_2441

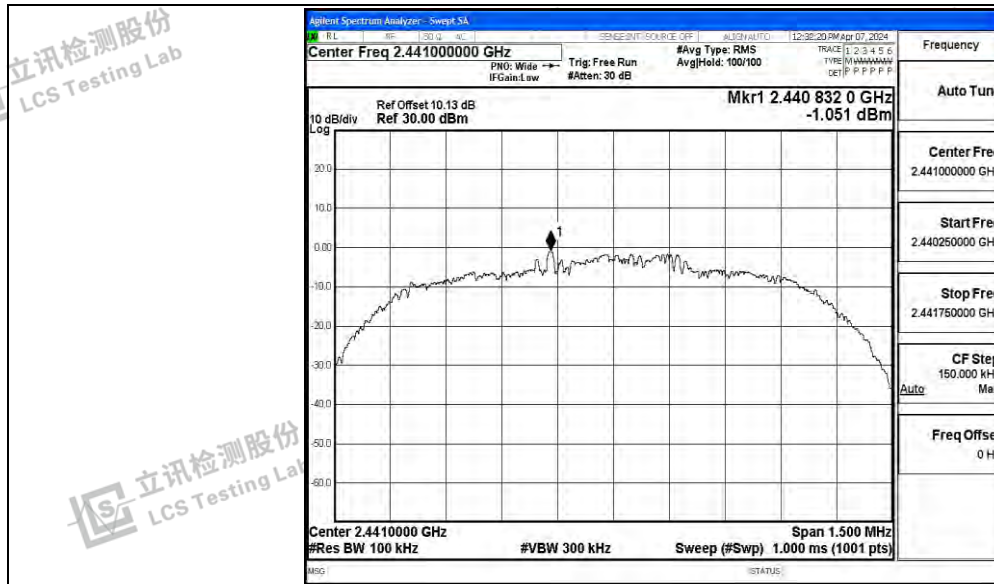


Shenzhen LCS Compliance Testing Laboratory Ltd.

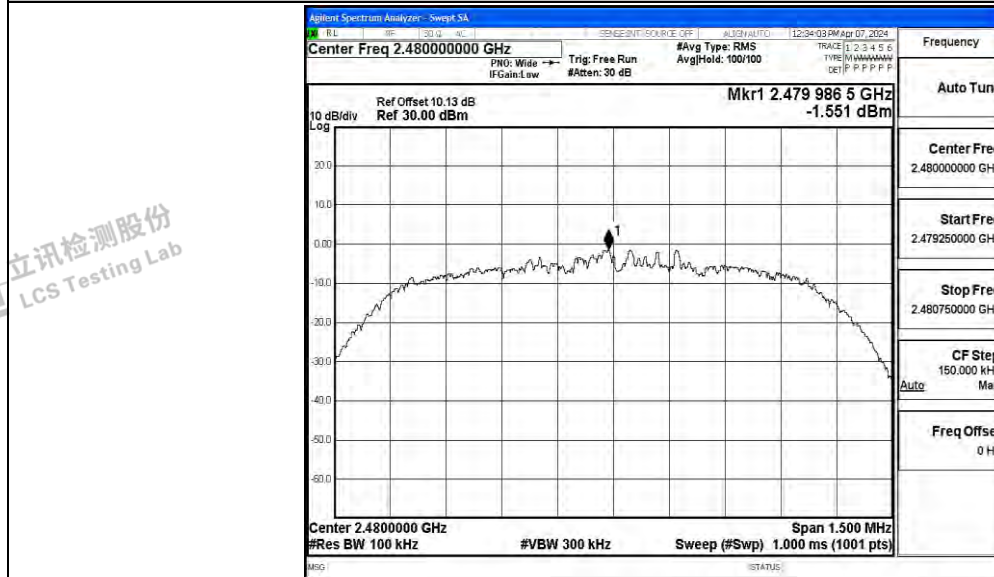
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2480



3DH5_Ant_2402

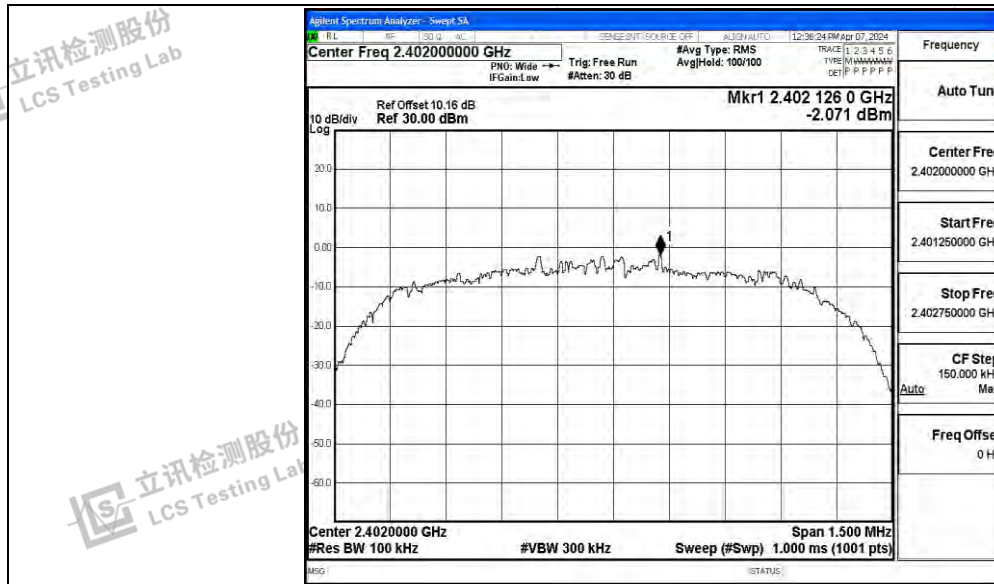


Shenzhen LCS Compliance Testing Laboratory Ltd.

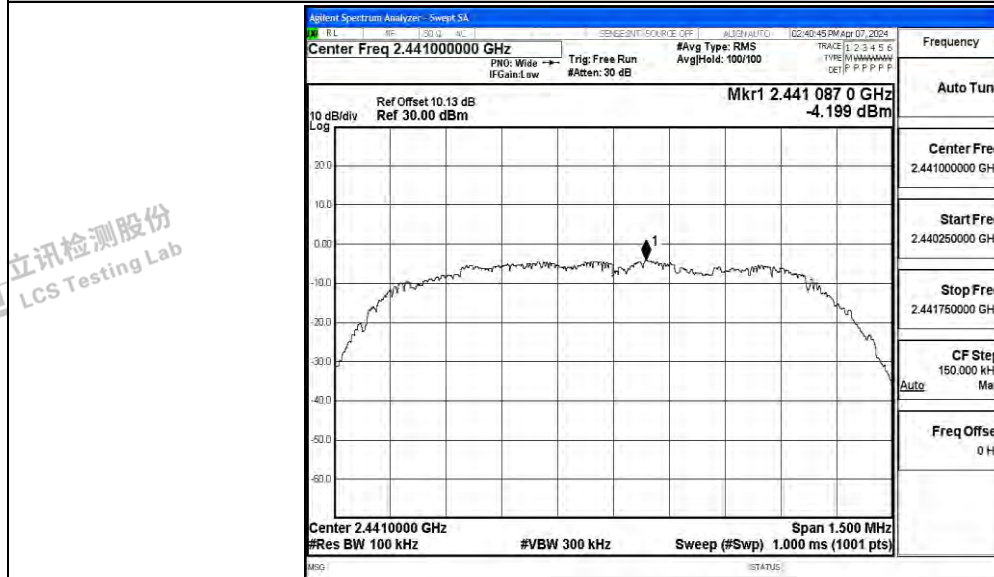
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2441



3DH5_Ant_2480

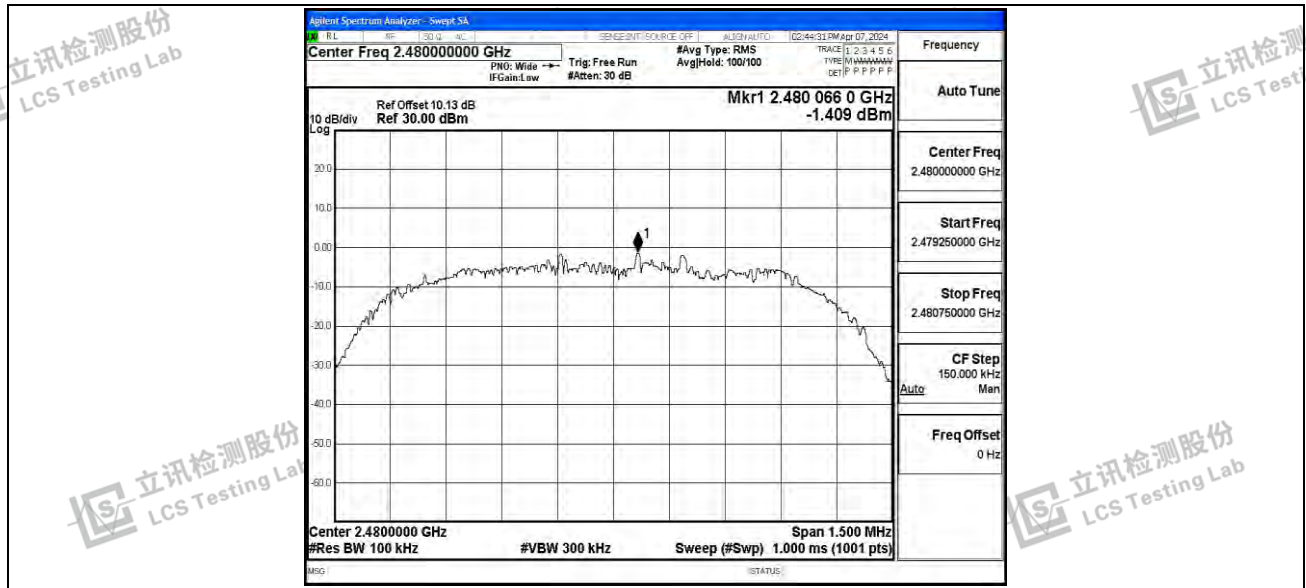


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A.8 Duty Cycle

Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant	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
2DH5	Ant	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
3DH5	Ant	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



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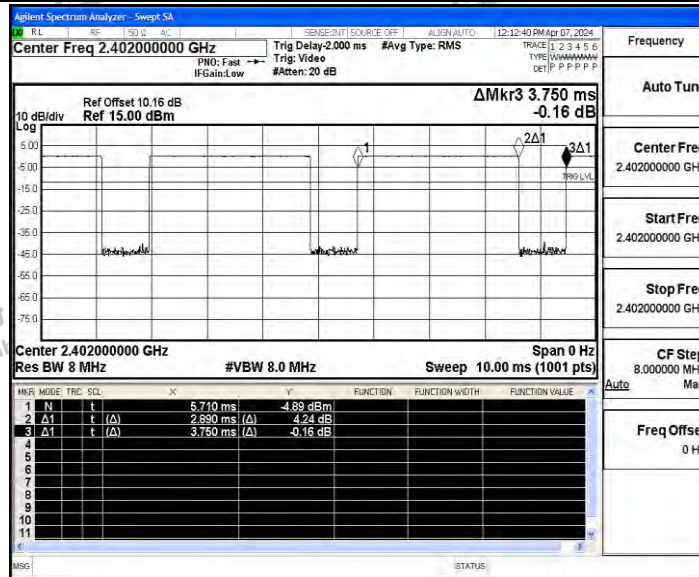
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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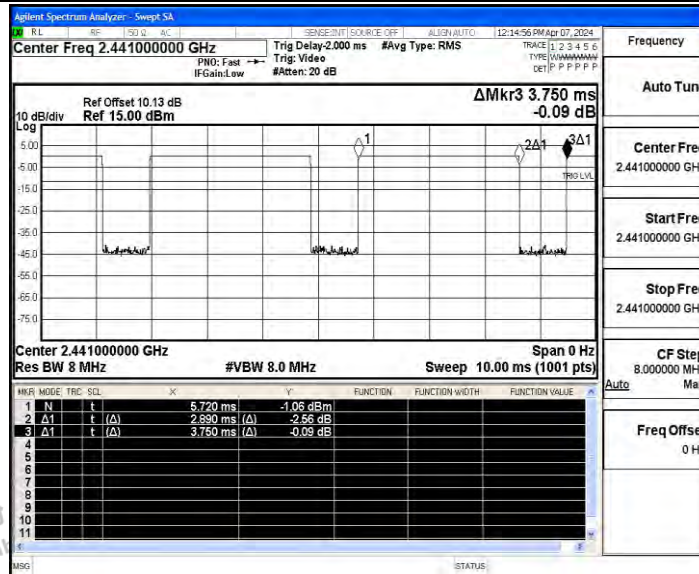


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

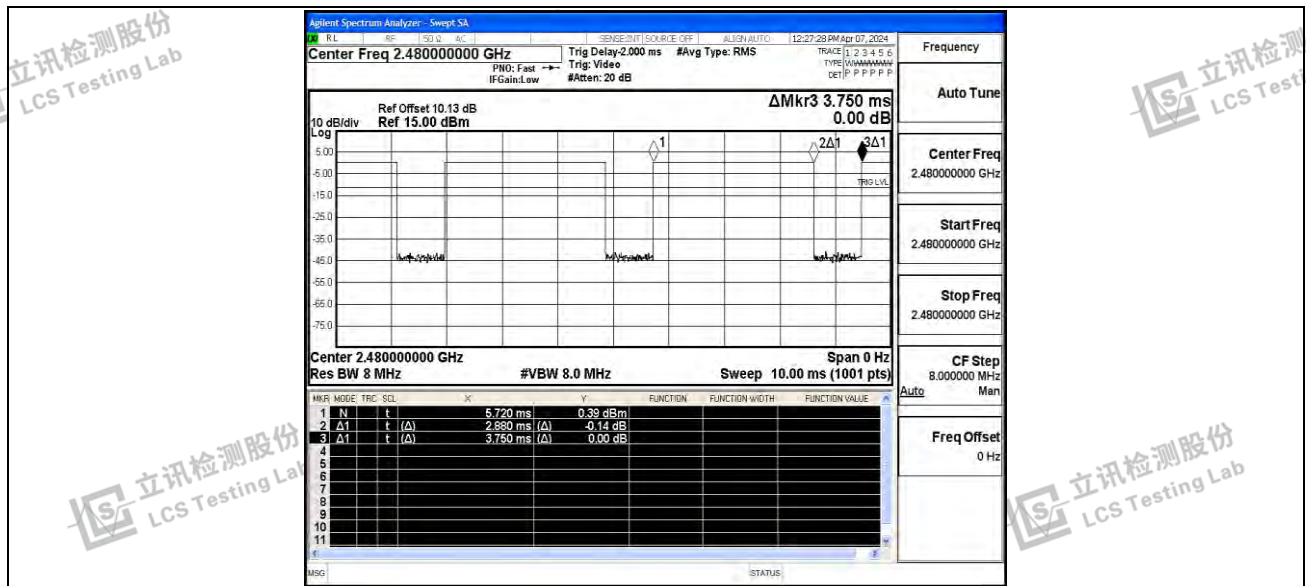


Shenzhen LCS Compliance Testing Laboratory Ltd.

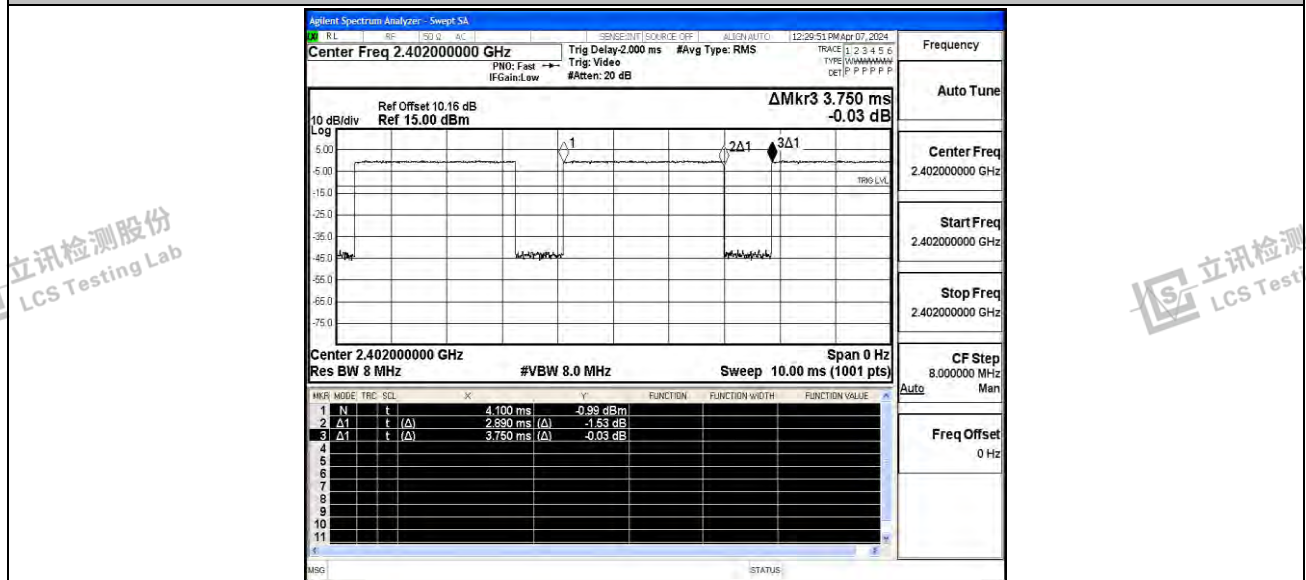
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2402



2DH5_Ant_2441

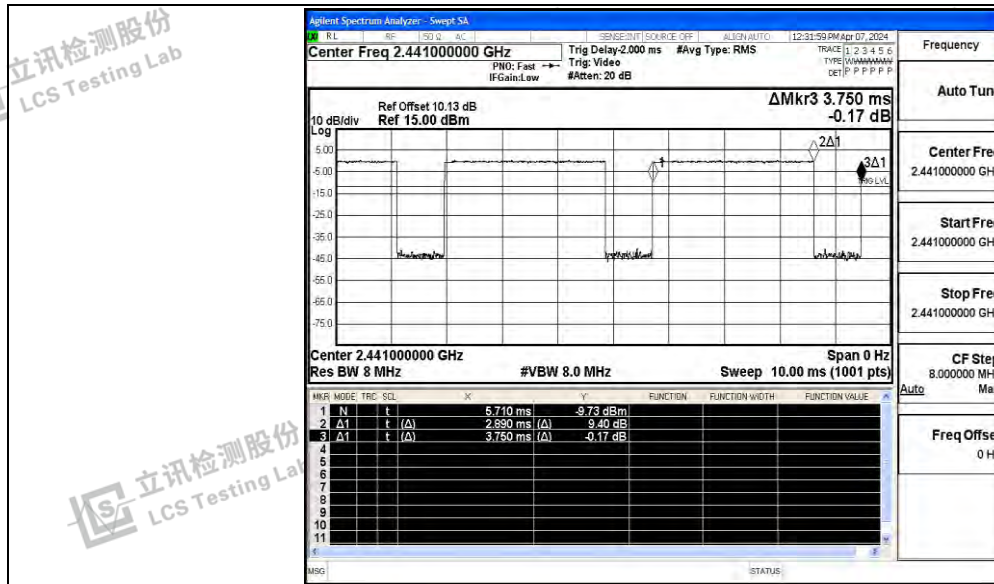


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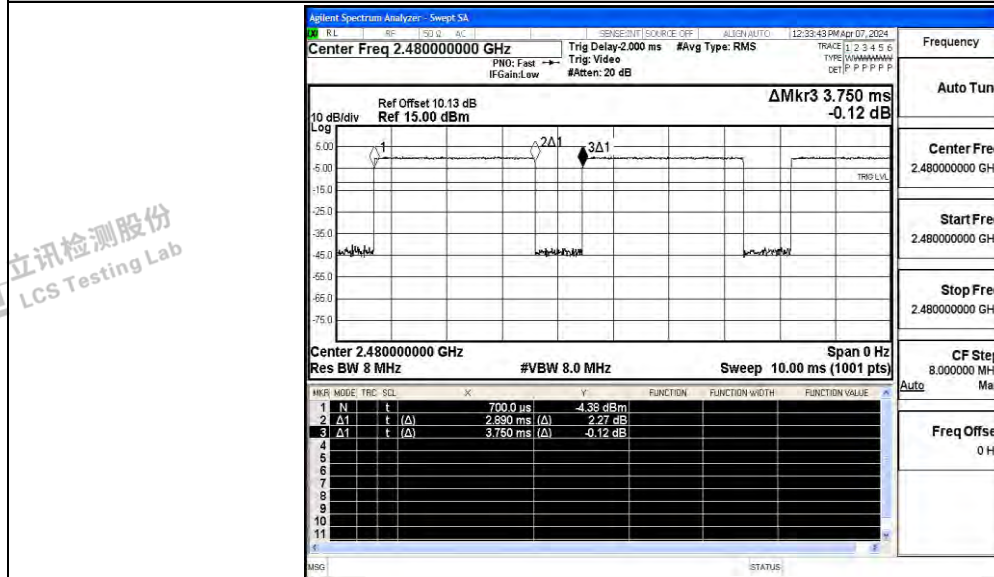
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2DH5_Ant_2480



3DH5_Ant_2402

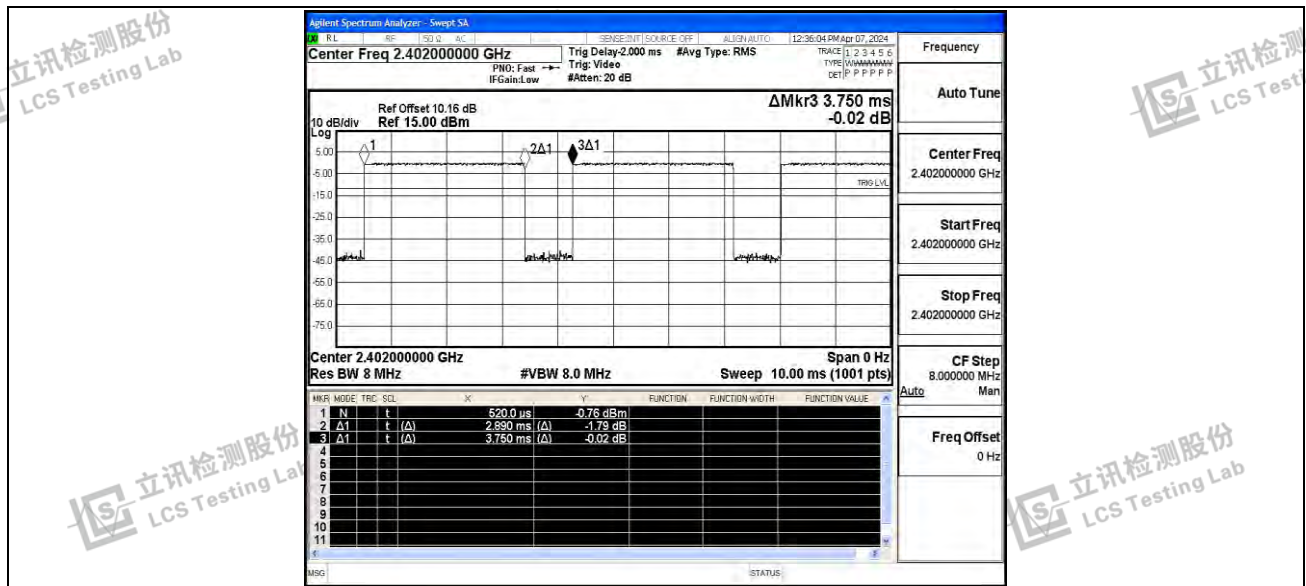


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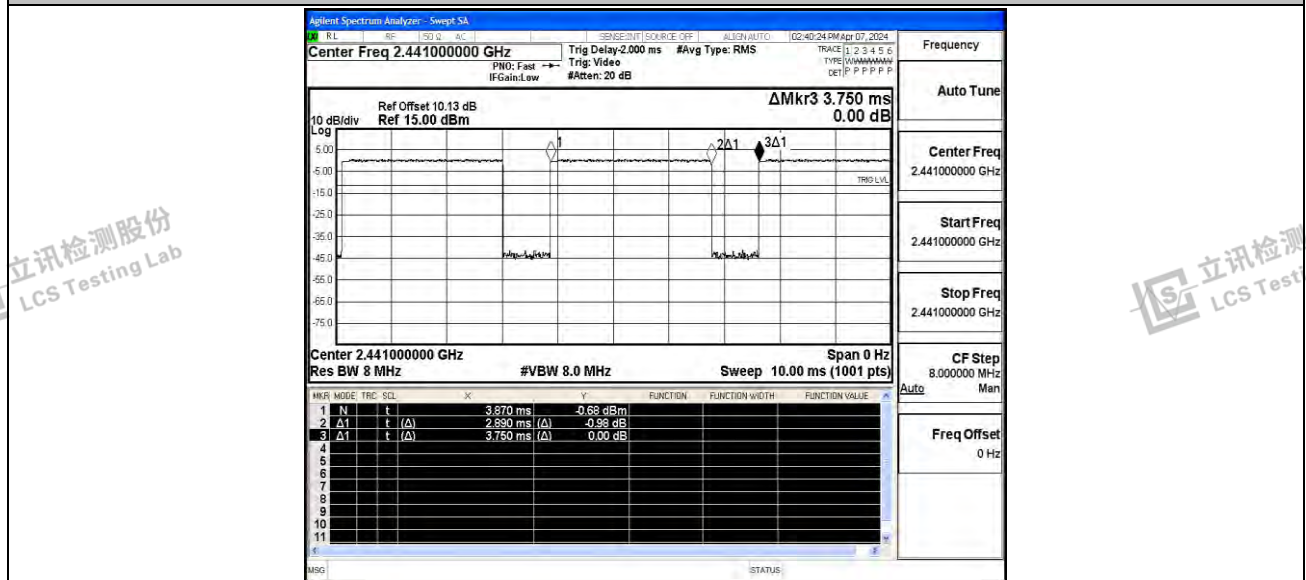
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3DH5_Ant_2441



3DH5_Ant_2480

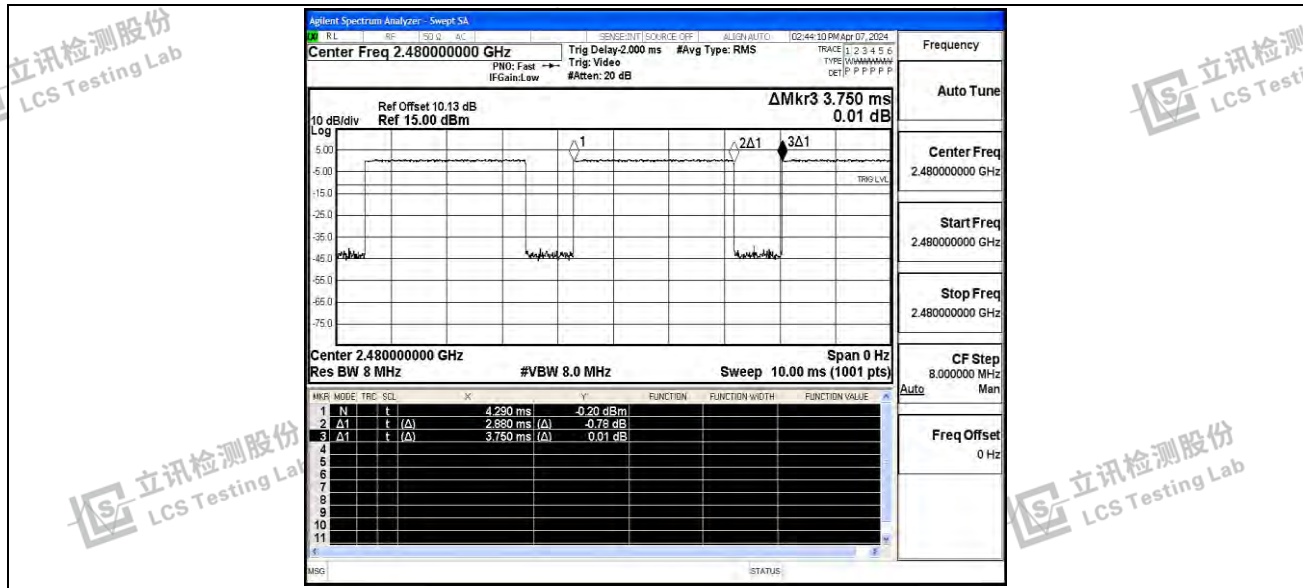


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-46.59	≤-41.20	48.61	≤54	PASS
				AV	2375.705	-45.86	≤-41.20	49.34	≤54	PASS
				AV	2390.000	-46.54	≤-41.20	48.66	≤54	PASS
				Peak	2310.000	-40.32	≤-21.20	54.88	≤74	PASS
				Peak	2382.950	-37.08	≤-21.20	58.12	≤74	PASS
				Peak	2390.000	-40.95	≤-21.20	54.25	≤74	PASS
		High	2480	AV	2483.500	-45.81	≤-41.20	49.39	≤54	PASS
				AV	2491.360	-45.59	≤-41.20	49.61	≤54	PASS
				AV	2500.000	-46.26	≤-41.20	48.94	≤54	PASS
				Peak	2483.500	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2485.600	-34.6	≤-21.20	60.60	≤74	PASS
				Peak	2500.000	-39.99	≤-21.20	55.21	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2383.895	-36.72	≤-21.20	58.48	≤74	PASS
				Peak	2390.000	-40.2	≤-21.20	55.00	≤74	PASS
		High	Hop_2480	Peak	2483.500	-37.75	≤-21.20	57.45	≤74	PASS
				Peak	2489.840	-35.84	≤-21.20	59.36	≤74	PASS
				Peak	2500.000	-39.02	≤-21.20	56.18	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-47.37	≤-41.20	47.83	≤54	PASS
				AV	2384.420	-45.76	≤-41.20	49.44	≤54	PASS
				AV	2390.000	-46.6	≤-41.20	48.60	≤54	PASS
				Peak	2310.000	-39.23	≤-21.20	55.97	≤74	PASS
				Peak	2347.250	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2390.000	-37.54	≤-21.20	57.66	≤74	PASS
		High	2480	AV	2483.500	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2499.680	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2500.000	-46.23	≤-41.20	48.97	≤54	PASS
				Peak	2483.500	-37.94	≤-21.20	57.26	≤74	PASS
				Peak	2487.280	-35.65	≤-21.20	59.55	≤74	PASS
				Peak	2500.000	-39.83	≤-21.20	55.37	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.04	≤-21.20	55.16	≤74	PASS
				Peak	2376.230	-36.62	≤-21.20	58.58	≤74	PASS
				Peak	2390.000	-39.79	≤-21.20	55.41	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.86	≤-21.20	54.34	≤74	PASS
				Peak	2499.040	-36.75	≤-21.20	58.45	≤74	PASS



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3DH5	Ant	Low	2402	Peak	2500.000	-39.1	≤ -21.20	56.10	≤ 74	PASS
				AV	2310.000	-47.14	≤ -41.20	48.06	≤ 54	PASS
				AV	2382.635	-45.82	≤ -41.20	49.38	≤ 54	PASS
				AV	2390.000	-46.84	≤ -41.20	48.36	≤ 54	PASS
				Peak	2310.000	-40.89	≤ -21.20	54.31	≤ 74	PASS
				Peak	2344.415	-36.86	≤ -21.20	58.34	≤ 74	PASS
		High	2480	Peak	2390.000	-40.83	≤ -21.20	54.37	≤ 74	PASS
				AV	2483.500	-46.55	≤ -41.20	48.65	≤ 54	PASS
				AV	2489.360	-45.47	≤ -41.20	49.73	≤ 54	PASS
				AV	2500.000	-46.29	≤ -41.20	48.91	≤ 54	PASS
				Peak	2483.500	-40.53	≤ -21.20	54.67	≤ 74	PASS
				Peak	2487.600	-37.15	≤ -21.20	58.05	≤ 74	PASS
		Low	Hop_240 2	Peak	2500.000	-39.18	≤ -21.20	56.02	≤ 74	PASS
				Peak	2310.000	-42.15	≤ -21.20	53.05	≤ 74	PASS
				Peak	2379.380	-36.38	≤ -21.20	58.82	≤ 74	PASS
		High	Hop_248 0	Peak	2390.000	-40.51	≤ -21.20	54.69	≤ 74	PASS
				Peak	2483.500	-39.45	≤ -21.20	55.75	≤ 74	PASS
				Peak	2487.200	-36.97	≤ -21.20	58.23	≤ 74	PASS
				Peak	2500.000	-39.63	≤ -21.20	55.57	≤ 74	PASS

Note:

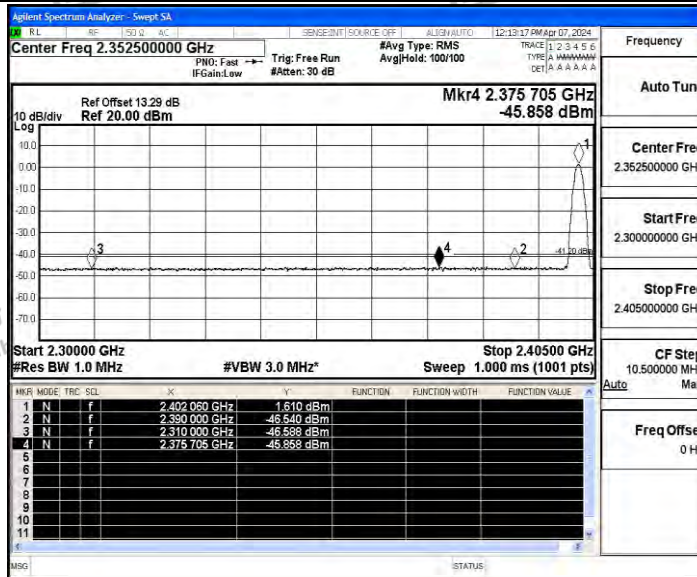
1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



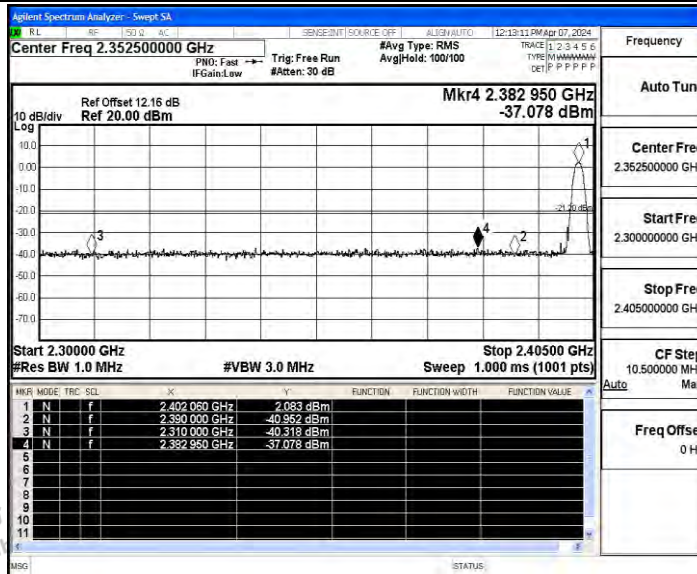


Test Graphs

DH5_Ant_Low_2402_AV



DH5_Ant_Low_2402_Peak



DH5_Ant_High_2480_AV

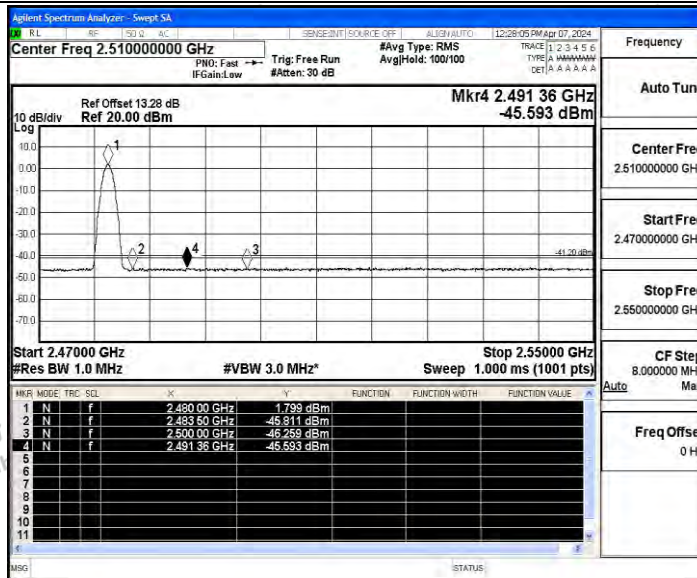


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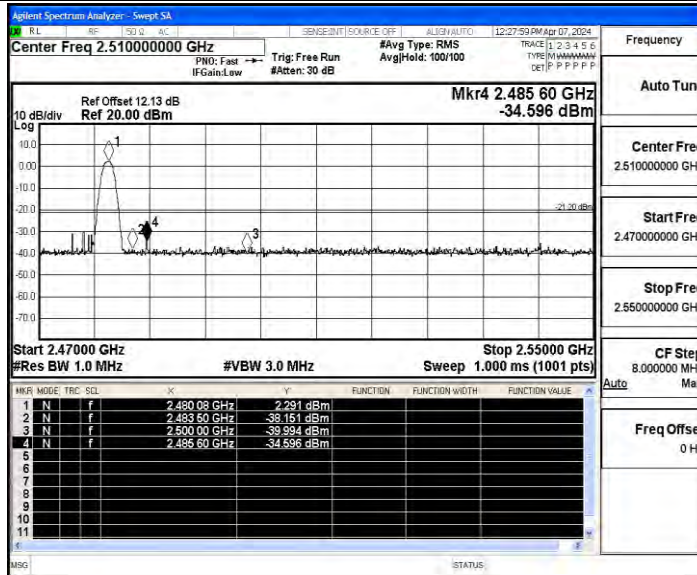
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant_High_2480_Peak



DH5_Ant_Low_Hop_2402_Peak

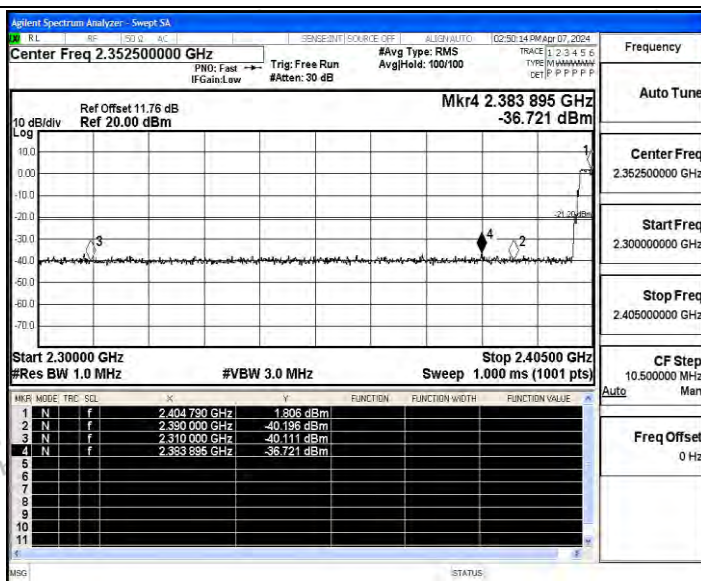


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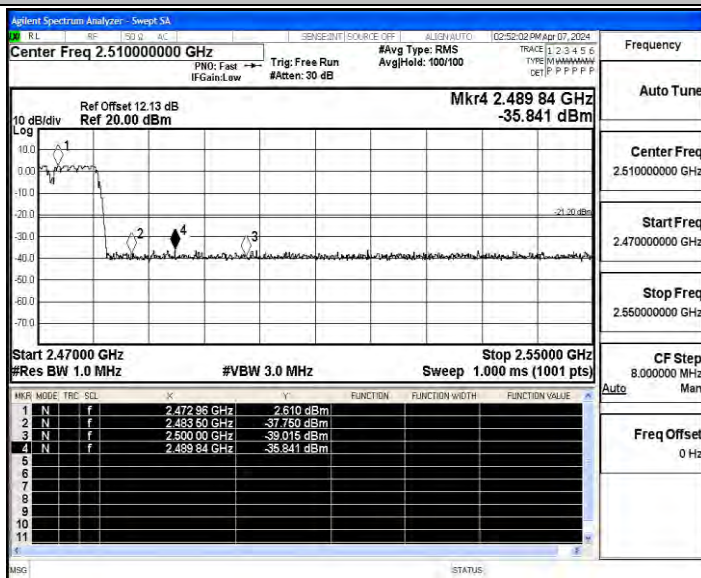
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DH5_Ant_High_Hop_2480_Peak



2DH5_Ant_Low_2402_AV

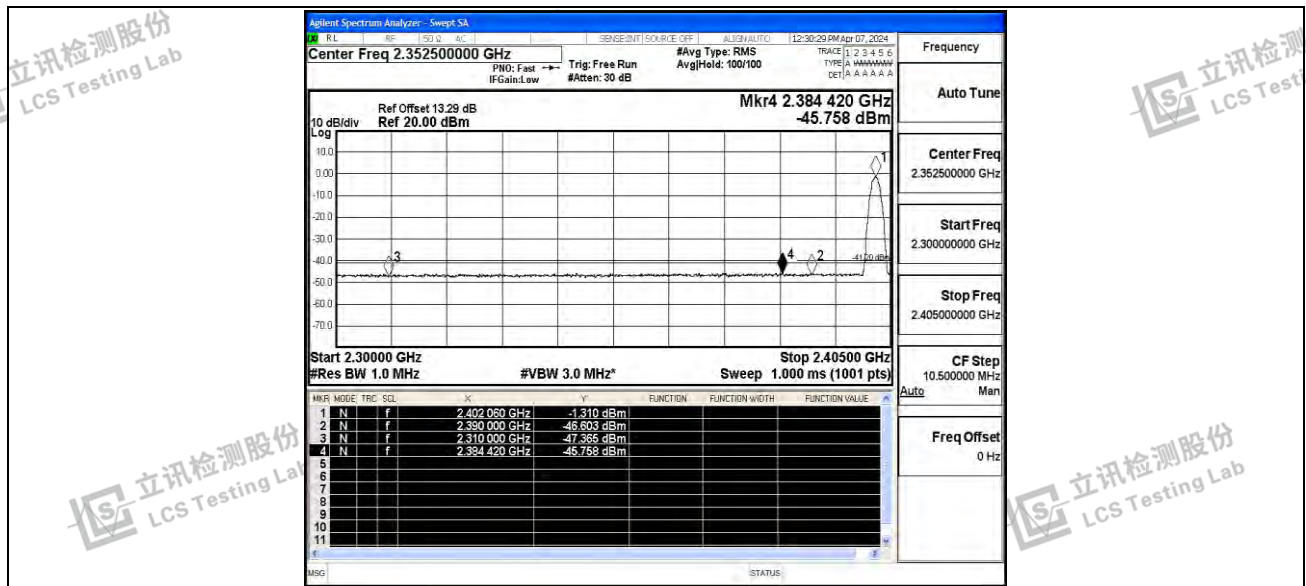


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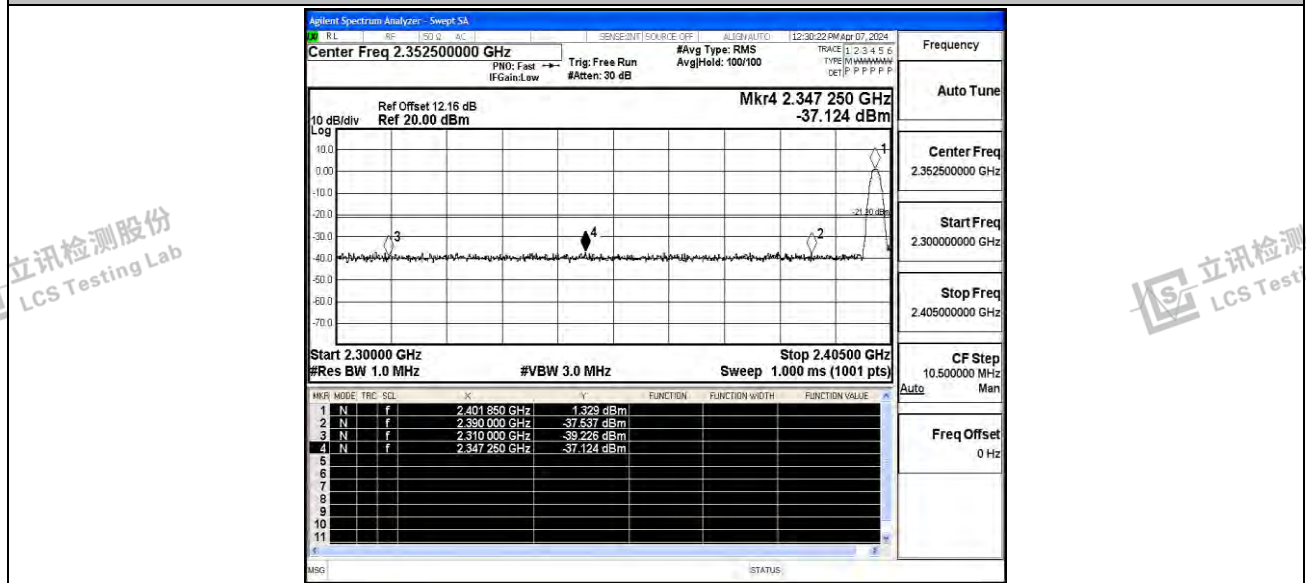
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2DH5_Ant_Low_2402_Peak



2DH5_Ant_High_2480_AV

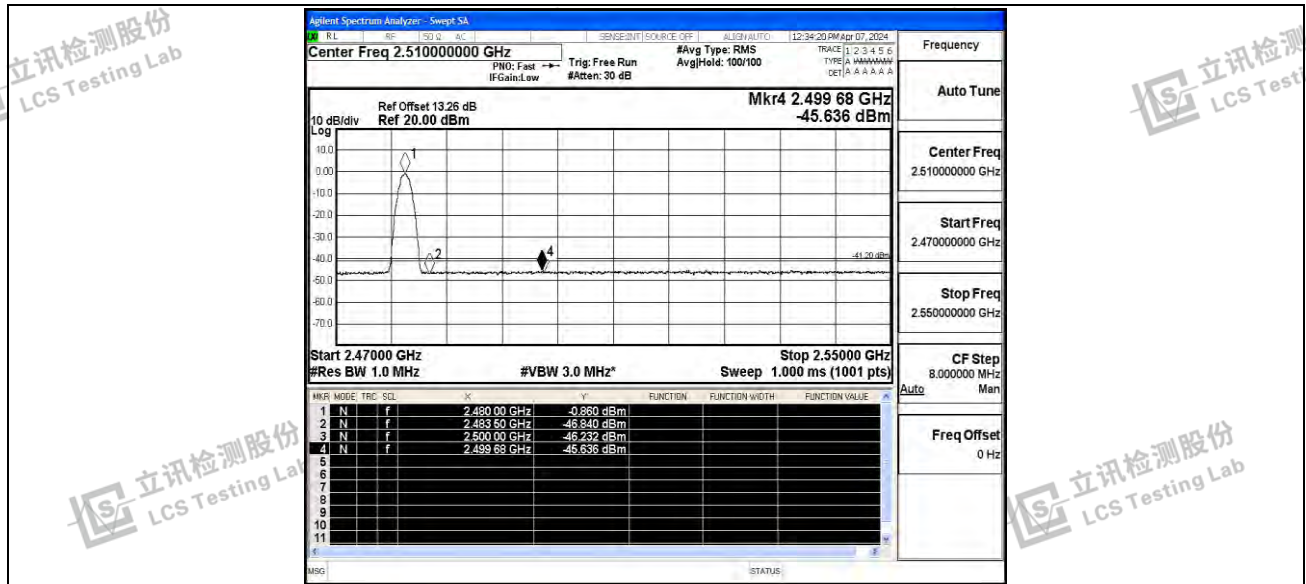


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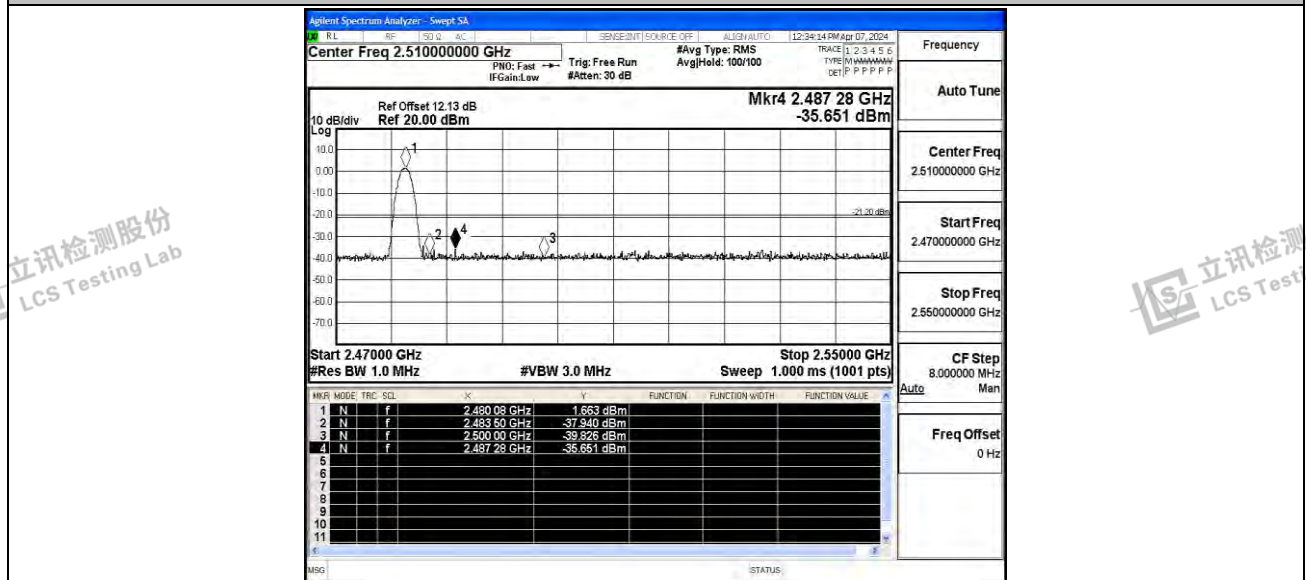
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2DH5_Ant_High_2480_Peak



2DH5_Ant_Low_Hop_2402_Peak

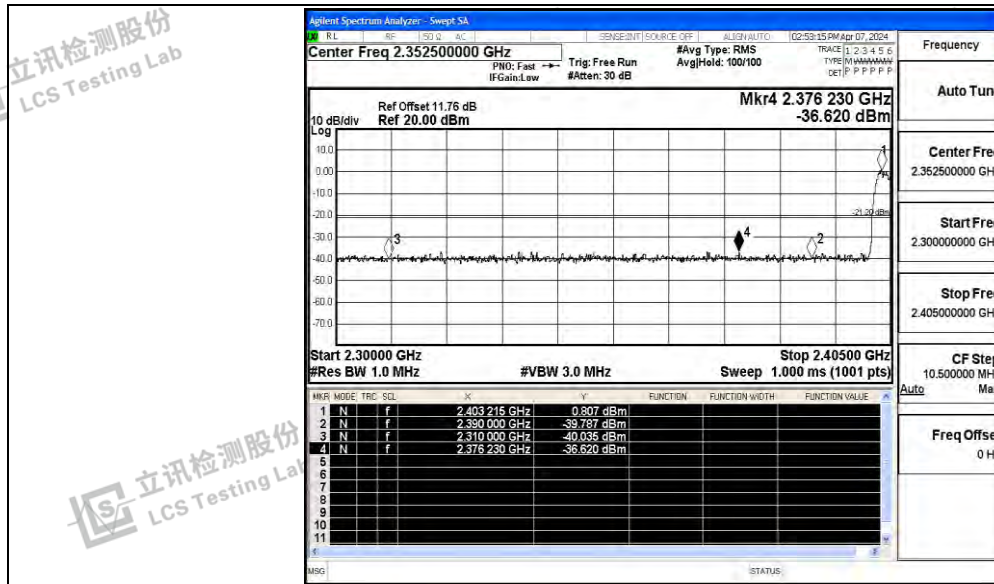


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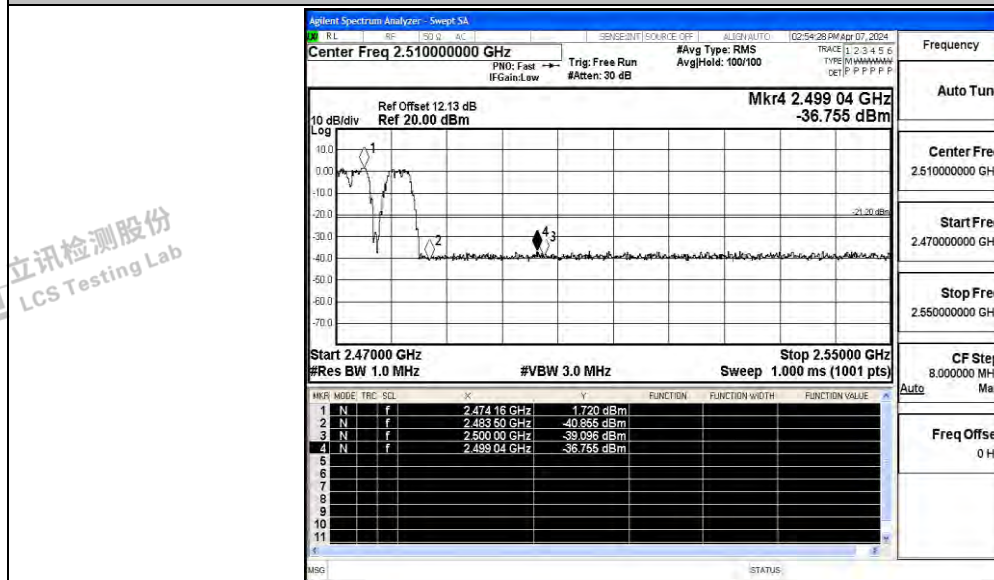
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2DH5_Ant_High_Hop_2480_Peak



3DH5_Ant_Low_2402_AV

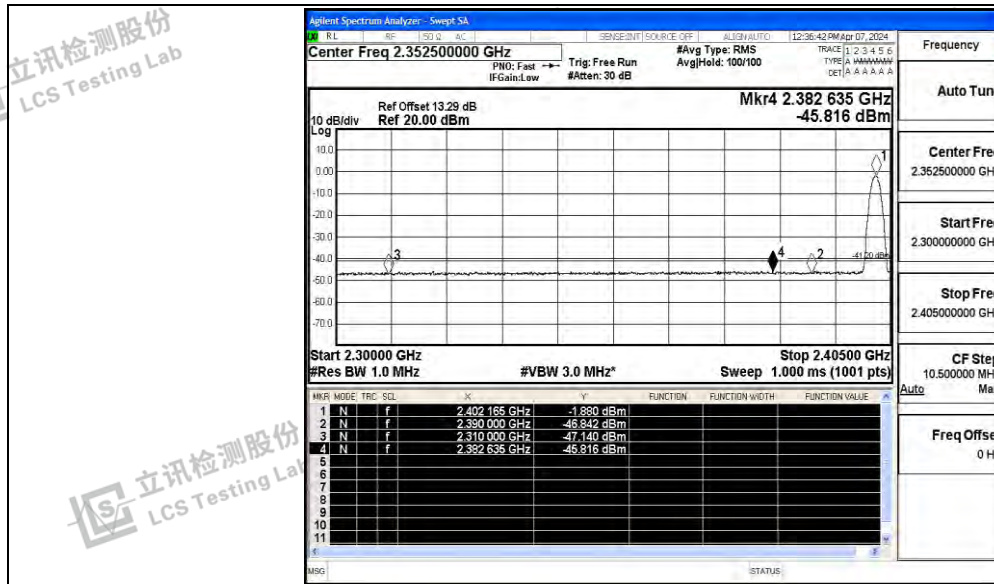


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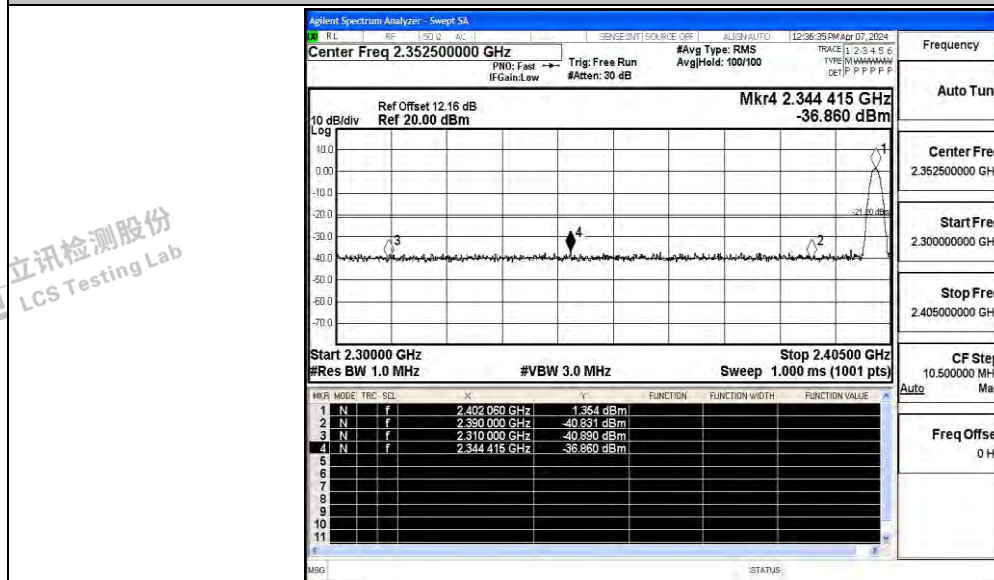
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3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

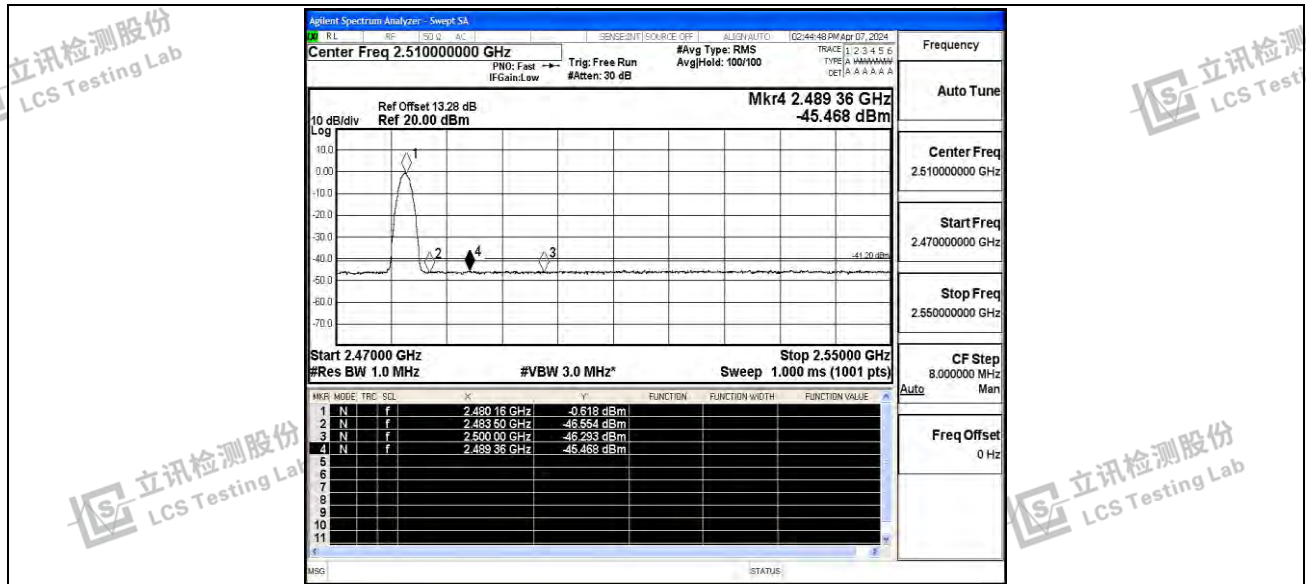


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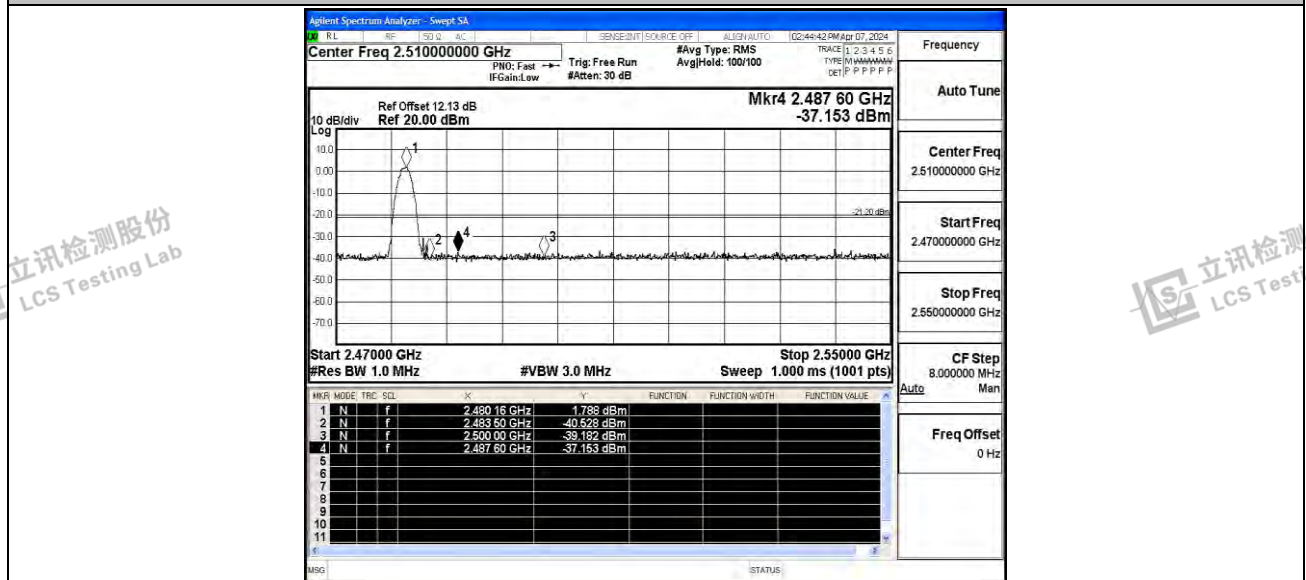
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3DH5_Ant_High_2480_Peak



3DH5_Ant_Low_Hop_2402_Peak

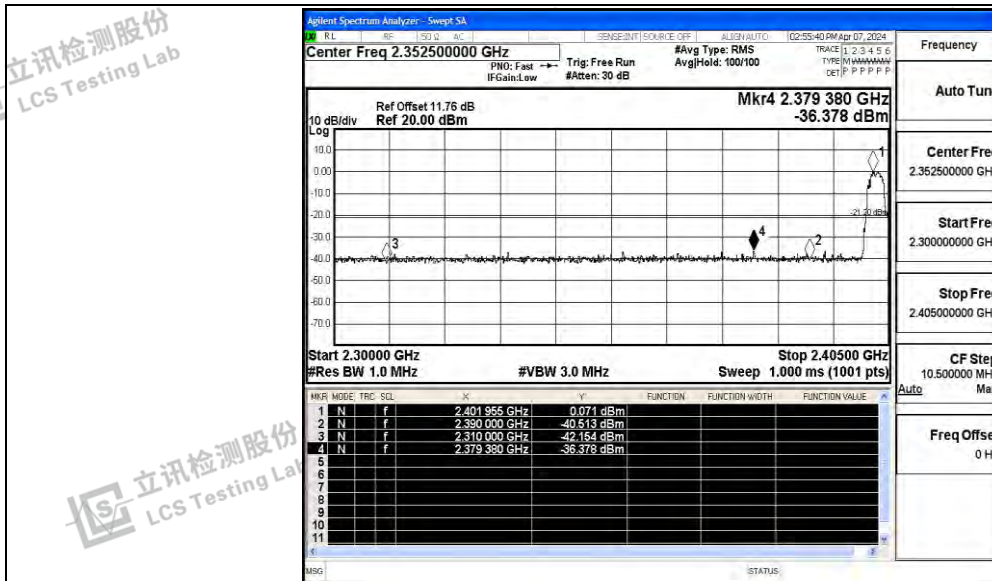


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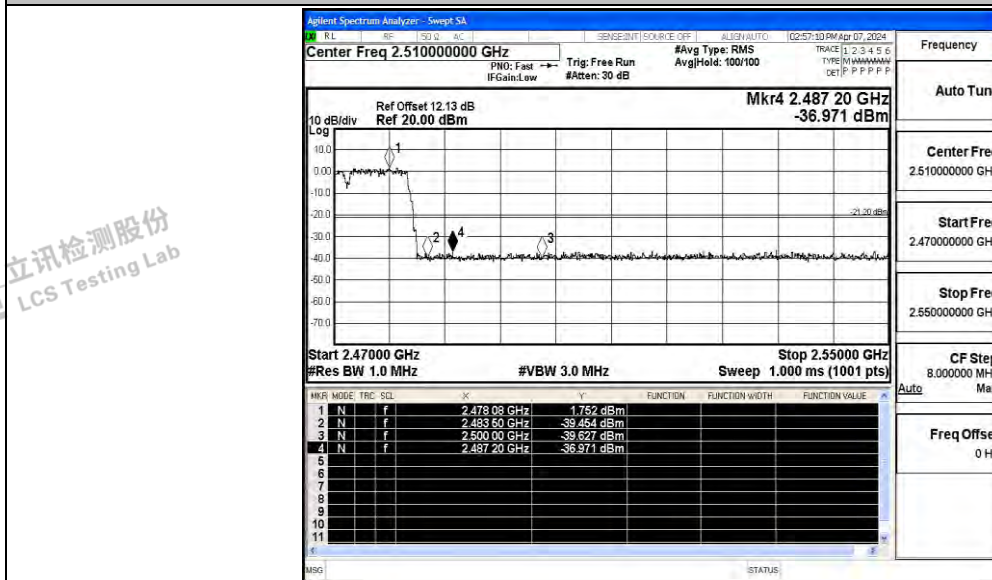
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3DH5_Ant_High_Hop_2480_Peak



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