



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless audio adapter

Test Model: SafeFly Pro

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





A.1 20dB Emission Bandwidth

Test Result

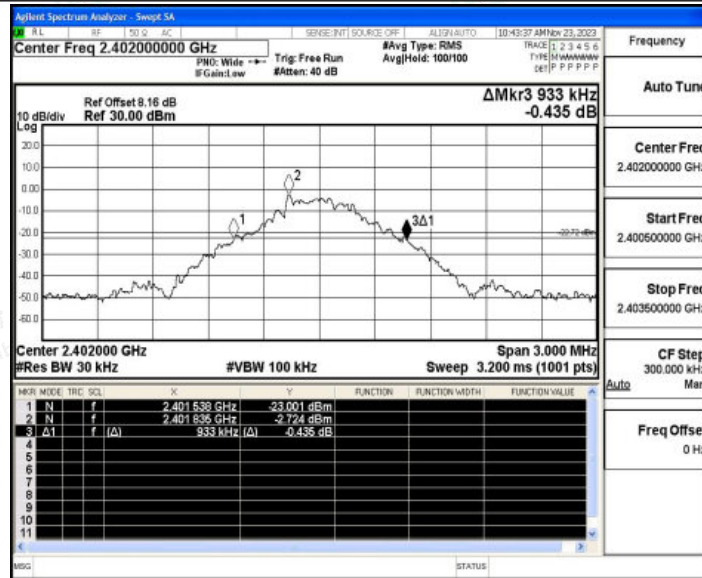
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.538	2402.471	---
		2441	1.017	2440.466	2441.483	---
		2480	0.969	2479.535	2480.504	---
2DH5	Ant1	2402	1.293	2401.358	2402.651	---
		2441	1.296	2440.358	2441.654	---
		2480	1.290	2479.358	2480.648	---
3DH5	Ant1	2402	1.302	2401.346	2402.648	---
		2441	1.293	2440.343	2441.636	---
		2480	1.293	2479.343	2480.636	---



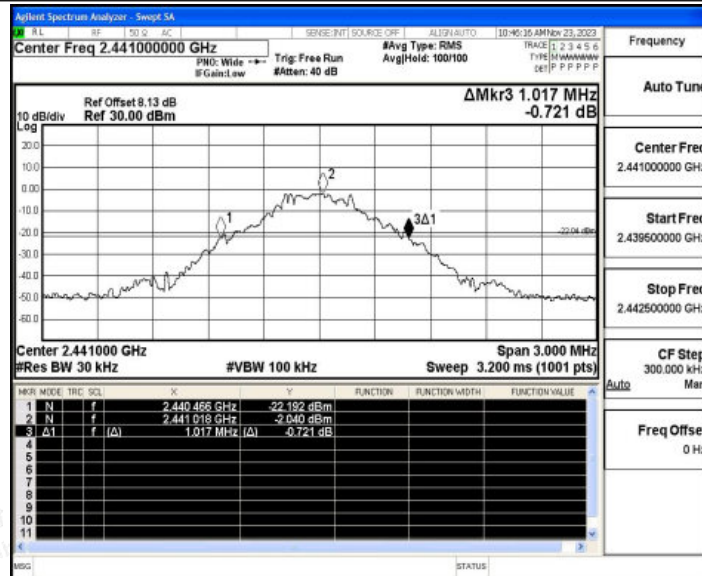


Test Graphs

DH5_Ant1_2402

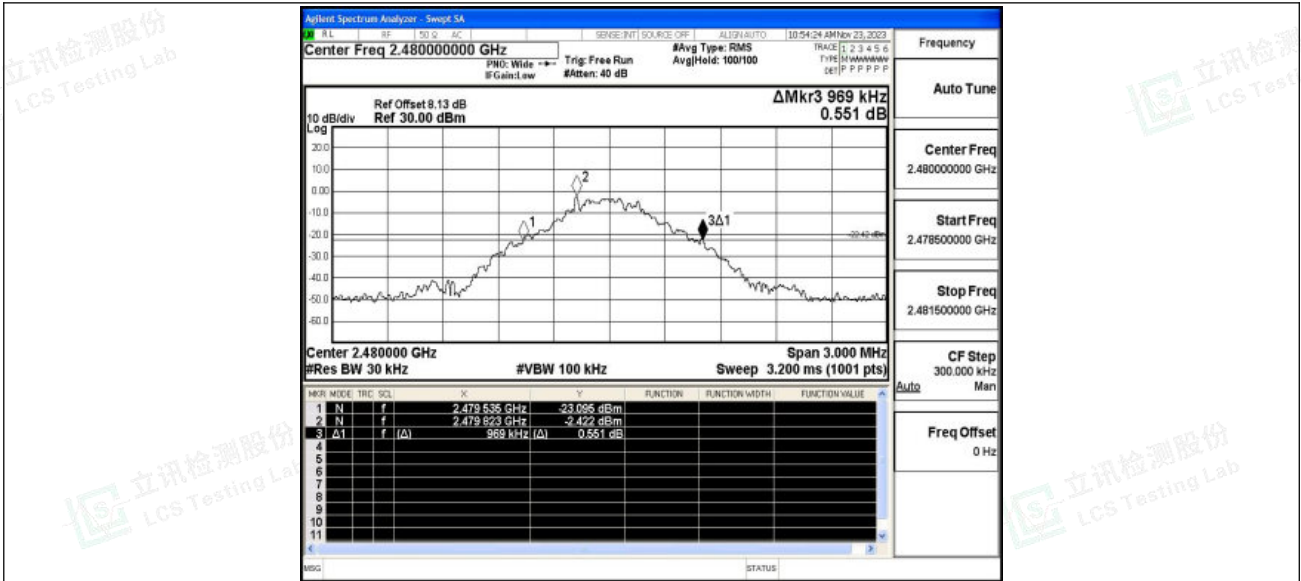


DH5_Ant1_2441

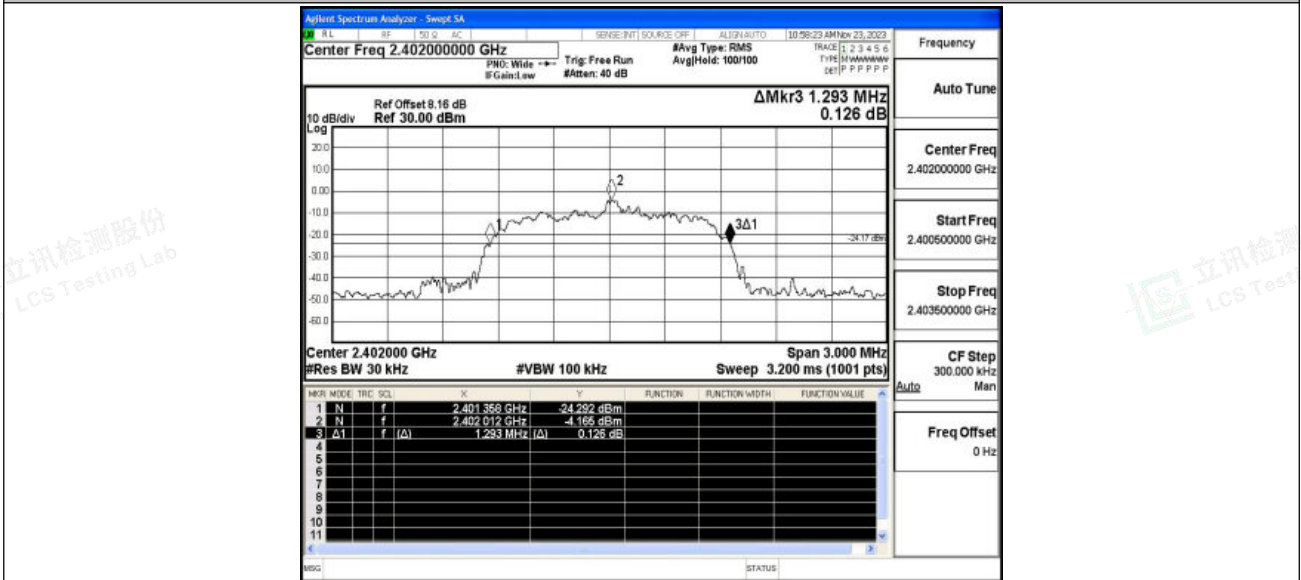


DH5_Ant1_2480



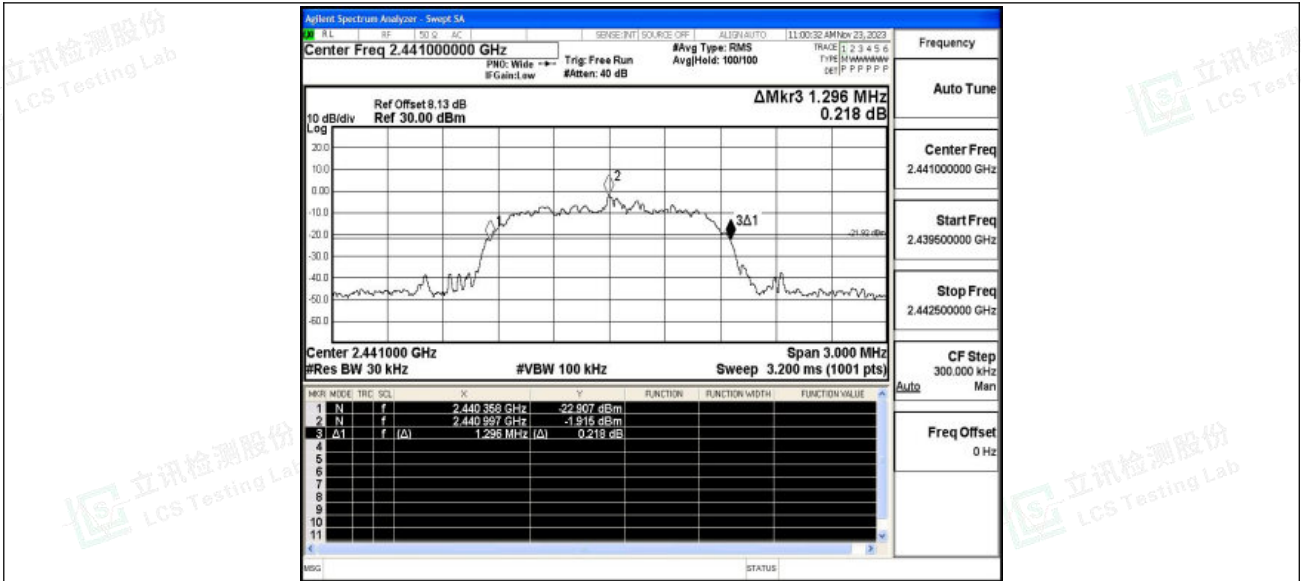


2DH5_Ant1_2402

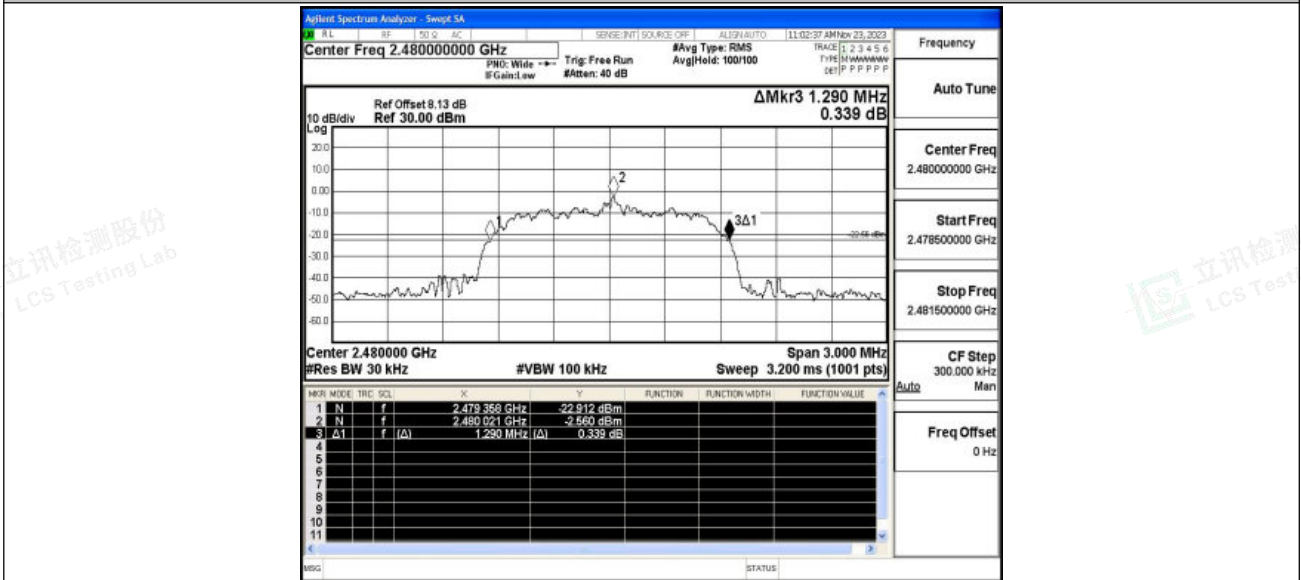


2DH5_Ant1_2441



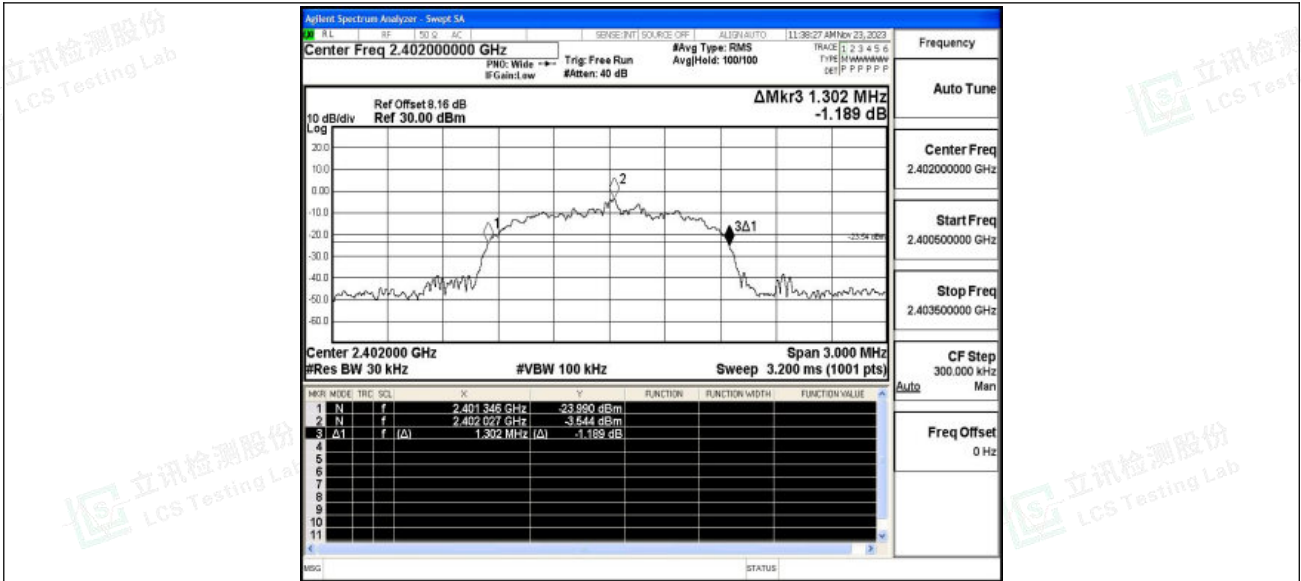


2DH5_Ant1_2480

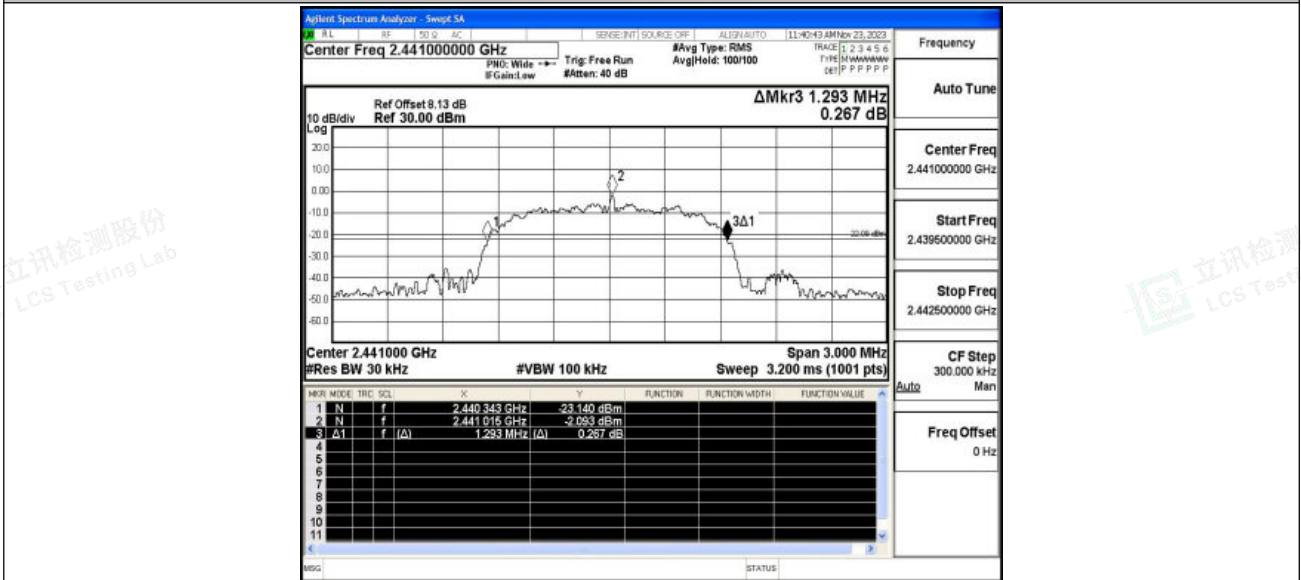


3DH5_Ant1_2402



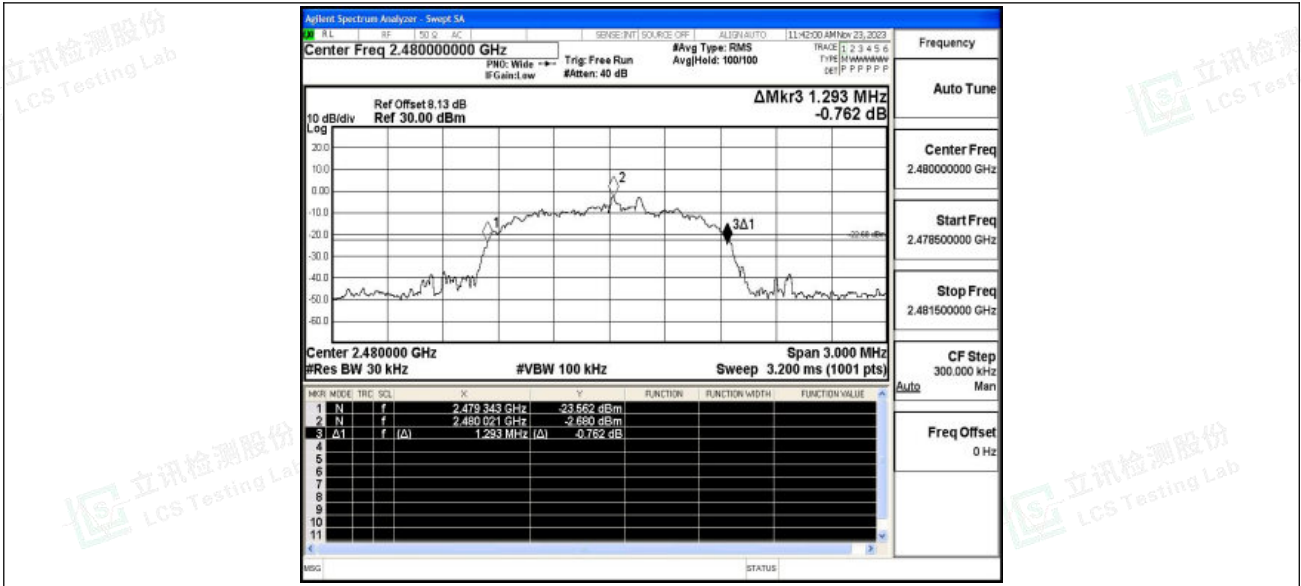


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

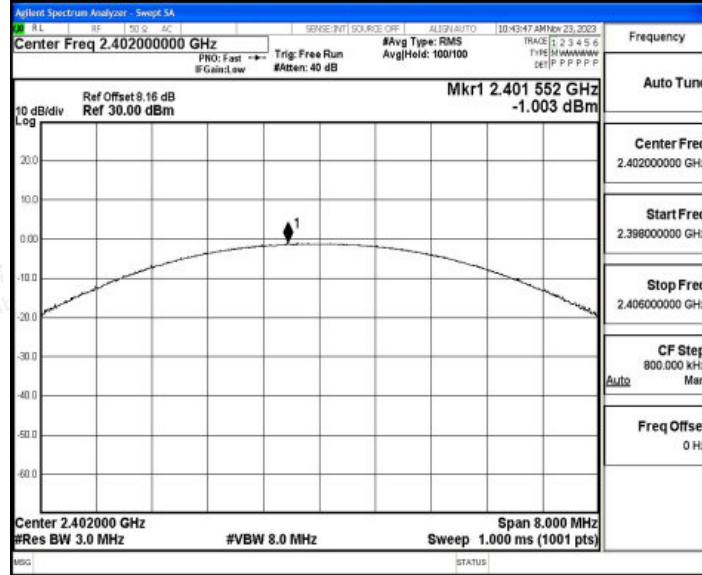
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1	≤20.97	PASS
		2441	0.96	≤20.97	PASS
		2480	-0.23	≤20.97	PASS
2DH5	Ant1	2402	0.65	≤20.97	PASS
		2441	2.79	≤20.97	PASS
		2480	1.56	≤20.97	PASS
3DH5	Ant1	2402	1.22	≤20.97	PASS
		2441	3.18	≤20.97	PASS
		2480	1.84	≤20.97	PASS



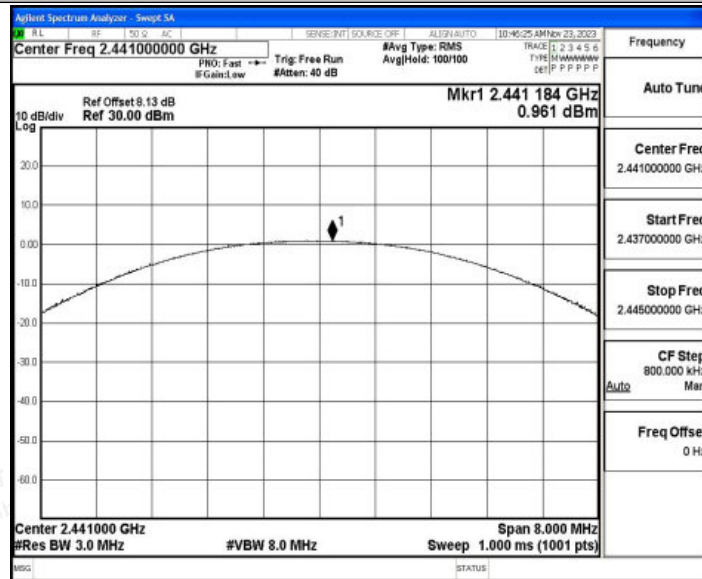


Test Graphs

DH5_Ant1_2402

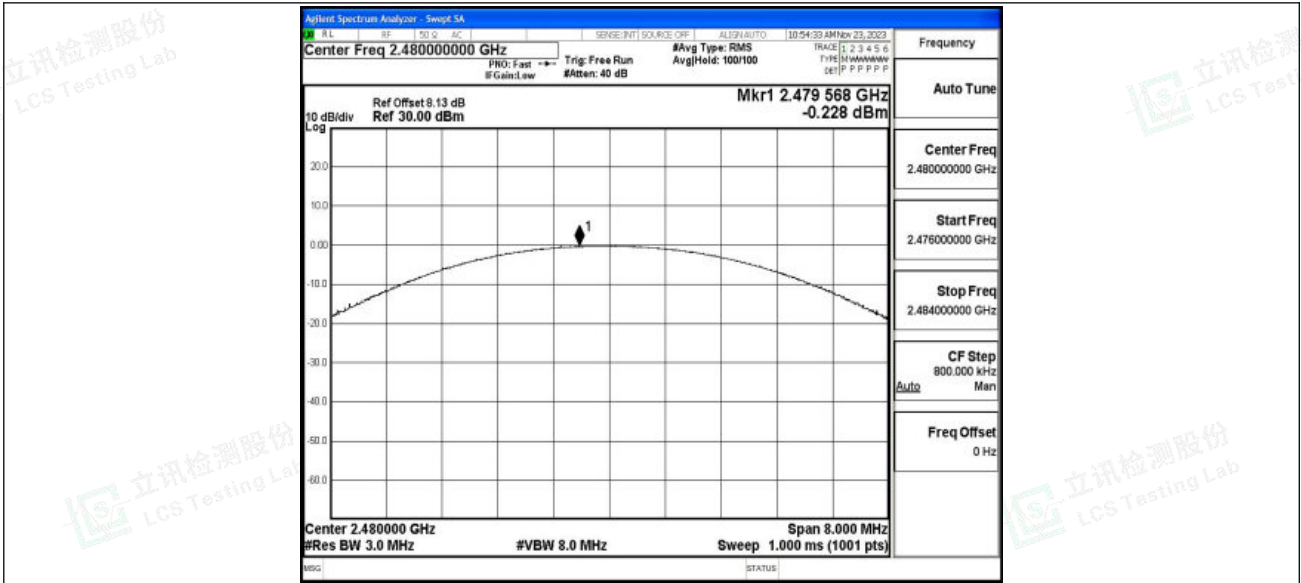


DH5_Ant1_2441

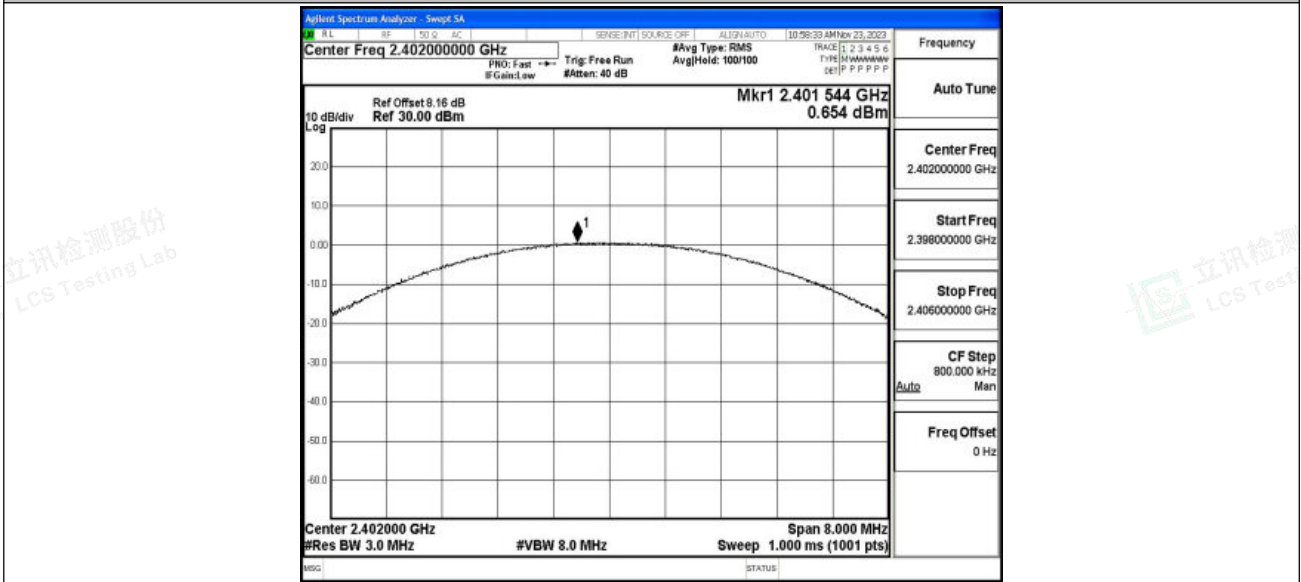


DH5_Ant1_2480



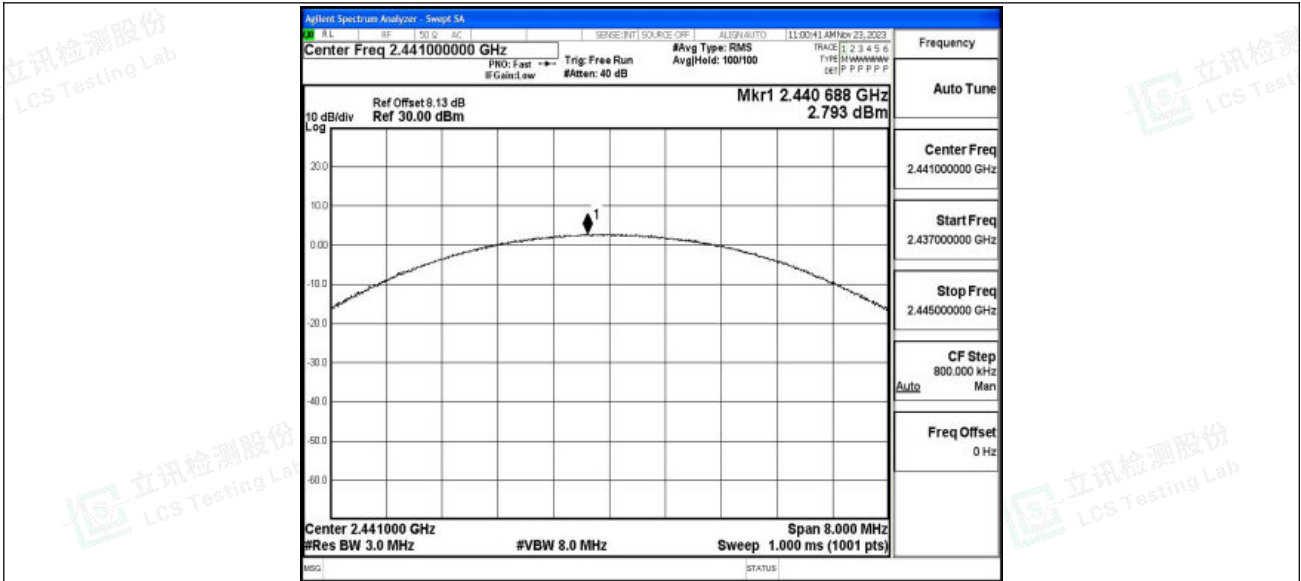


2DH5_Ant1_2402

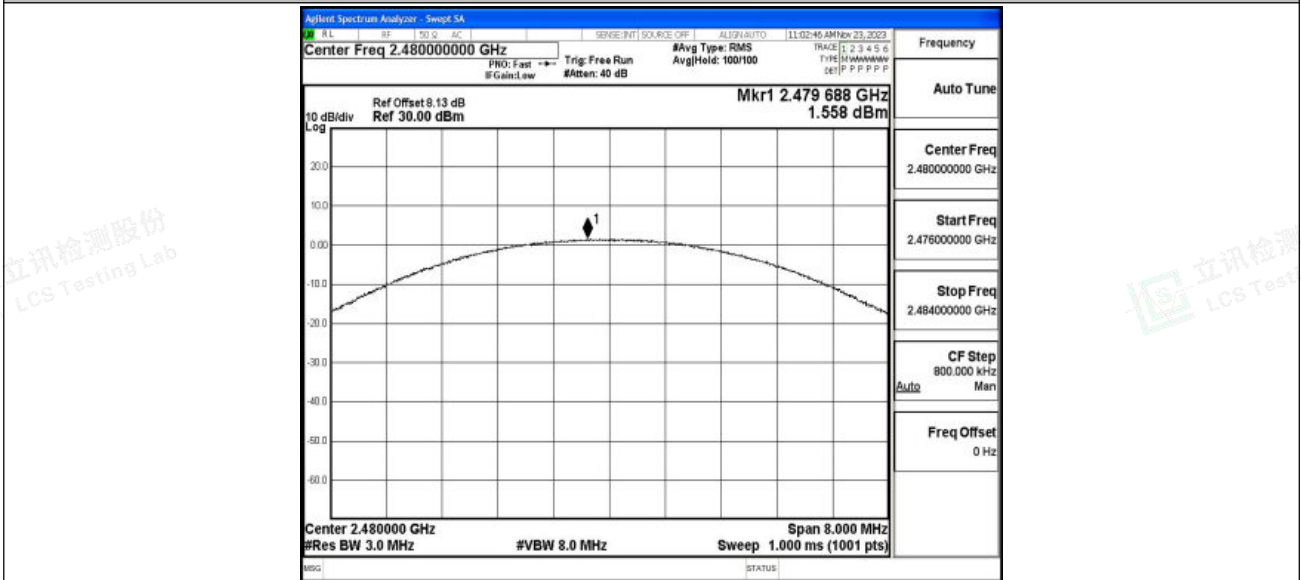


2DH5_Ant1_2441



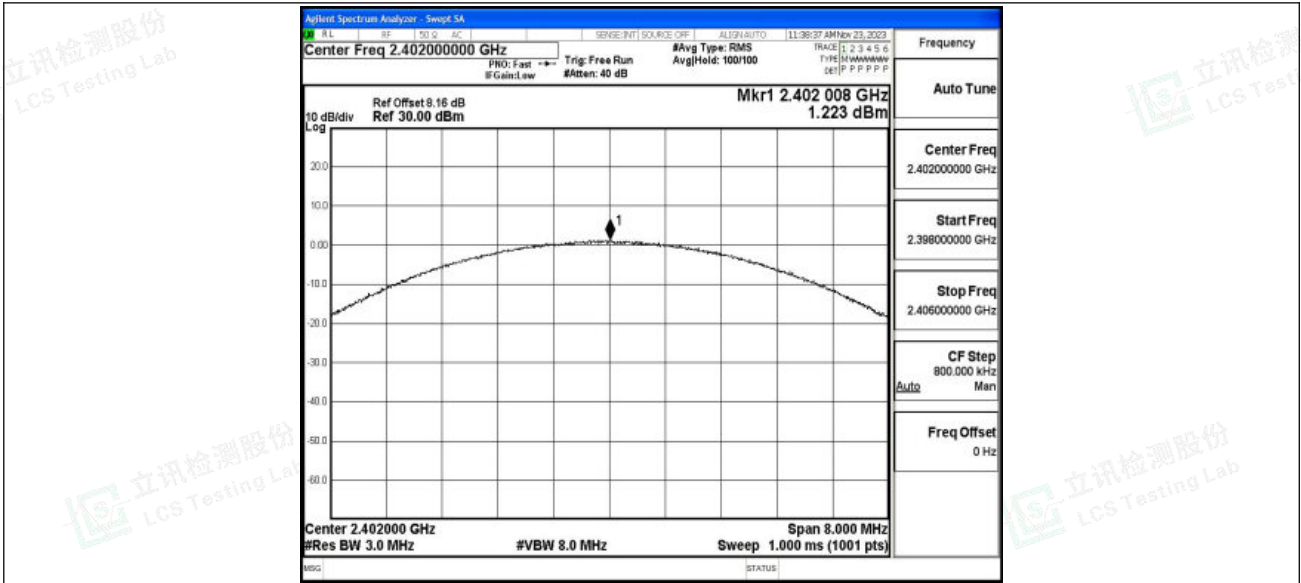


2DH5_Ant1_2480

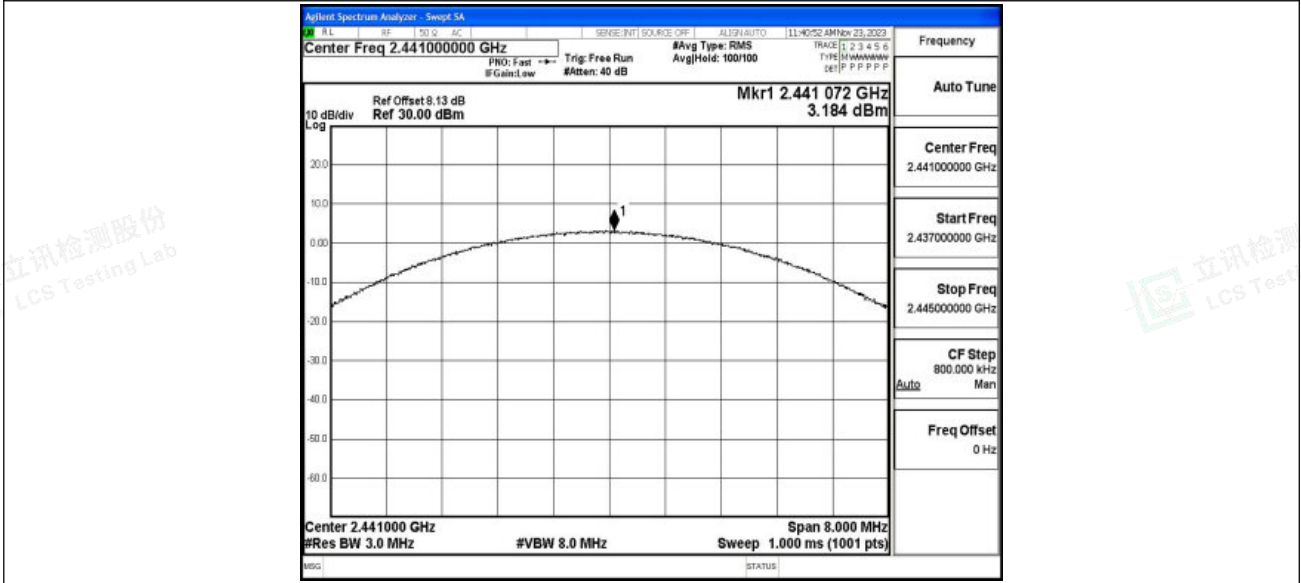


3DH5_Ant1_2402



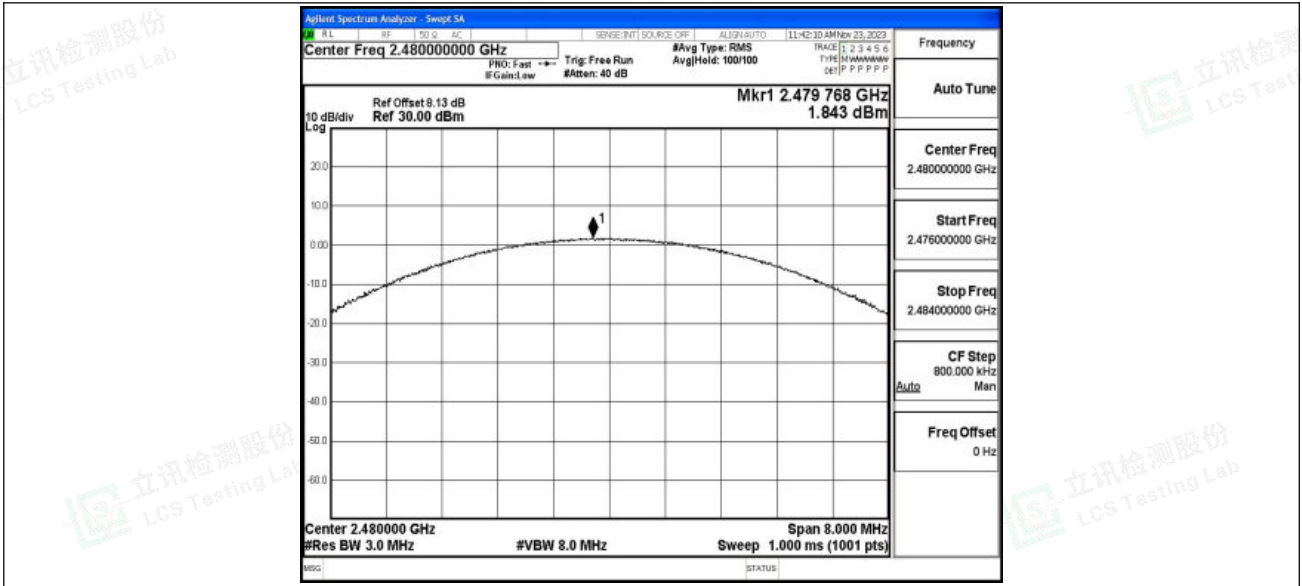


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.17	≥ 0.678	PASS
2DH5	Ant1	Hop	1.15	≥ 0.864	PASS
3DH5	Ant1	Hop	1.154	≥ 0.868	PASS



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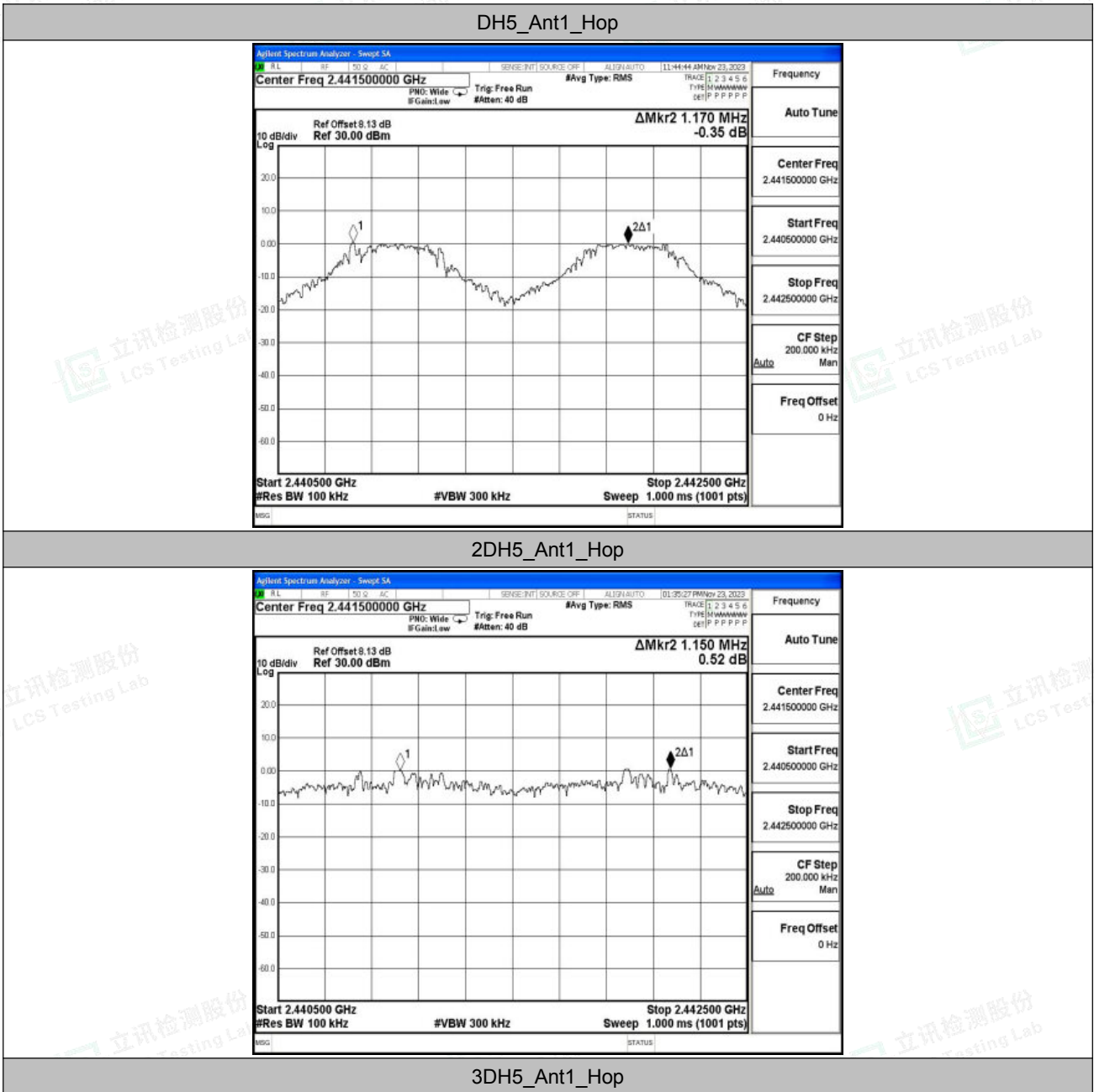
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

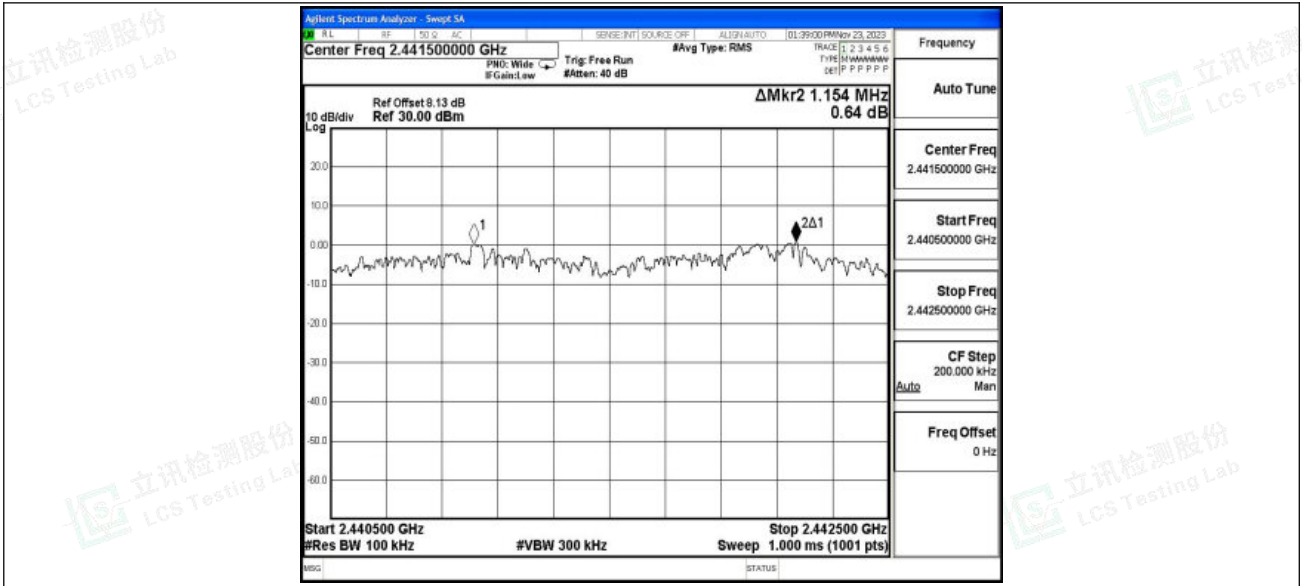
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs







A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.894	106.67	0.309	≤0.4	PASS



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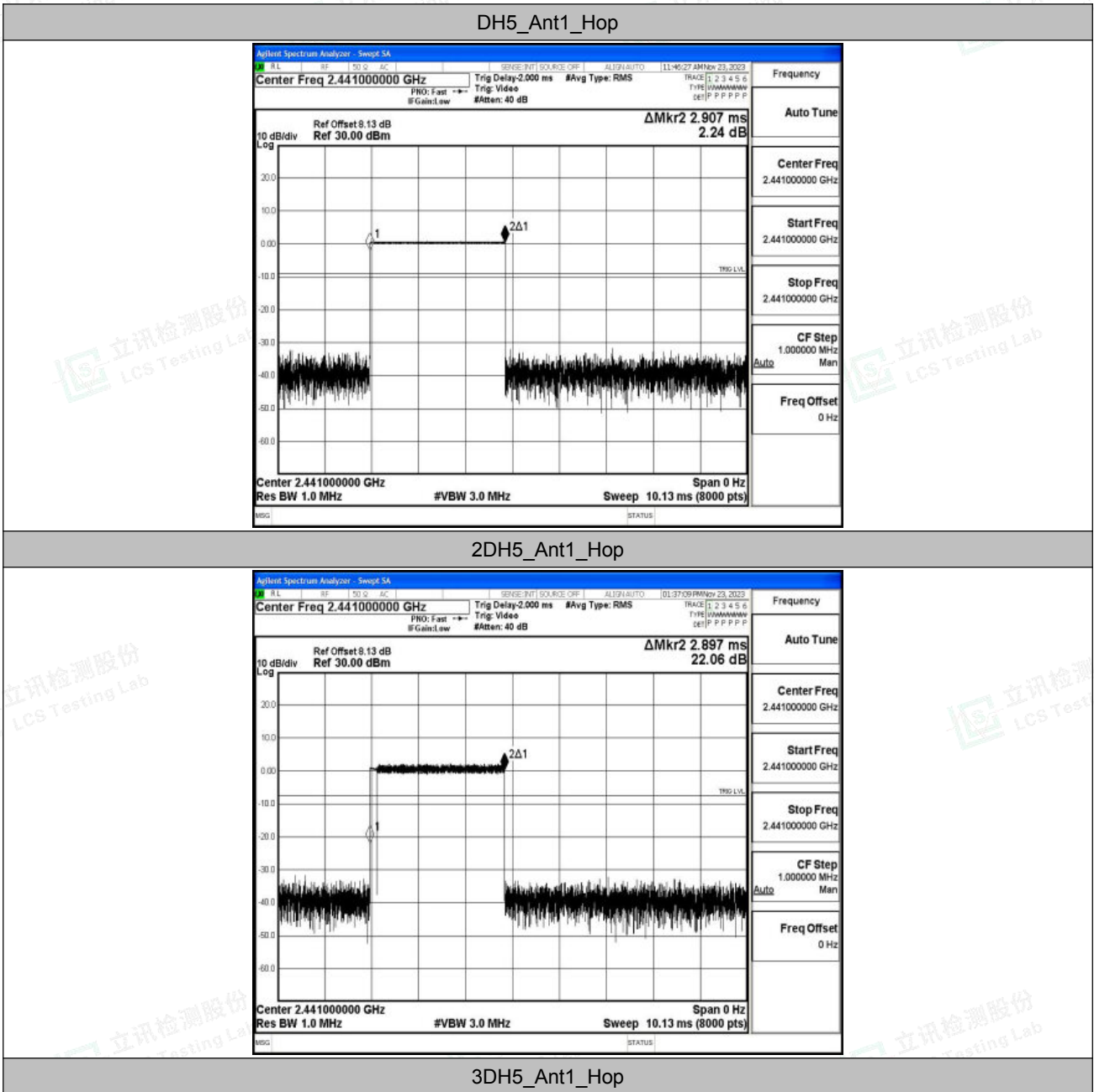
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs





A.5 Number of hopping channels

Test Result

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



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

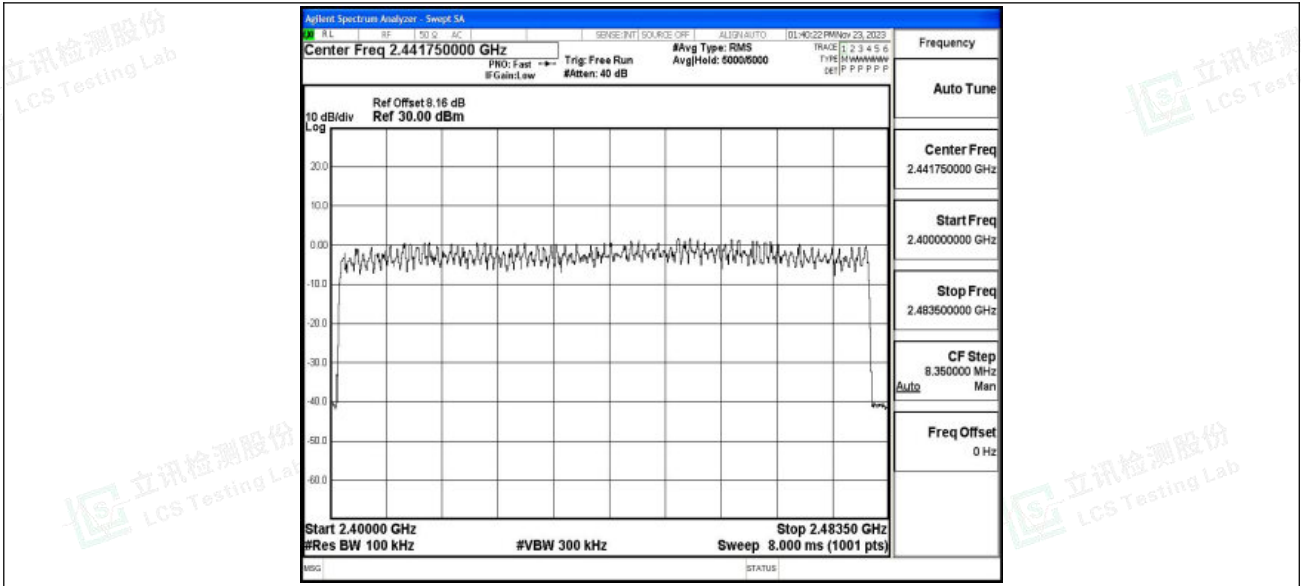
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs







A.6 Band edge measurements

Test Result

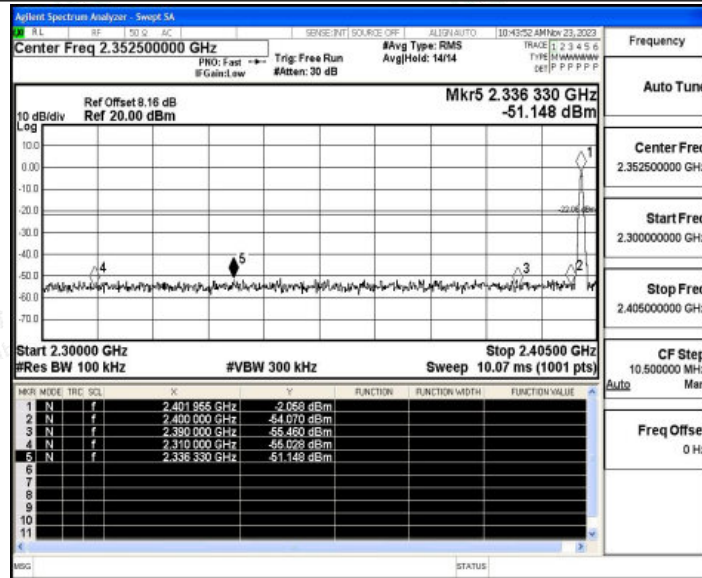
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.06	-51.15	≤-22.06	PASS
		High	2480	-1.03	-50.52	≤-21.03	PASS
		Low	Hop_2402	-1.84	-50.1	≤-21.84	PASS
		High	Hop_2480	-0.53	-49.52	≤-20.53	PASS
2DH5	Ant1	Low	2402	-4.70	-50.75	≤-24.7	PASS
		High	2480	-2.78	-50.8	≤-22.78	PASS
		Low	Hop_2402	-4.45	-50.14	≤-24.45	PASS
		High	Hop_2480	-0.21	-49.3	≤-20.21	PASS
3DH5	Ant1	Low	2402	-3.34	-50.42	≤-23.34	PASS
		High	2480	-1.01	-51.06	≤-21.01	PASS
		Low	Hop_2402	-3.31	-49.8	≤-23.31	PASS
		High	Hop_2480	-0.32	-49.52	≤-20.32	PASS



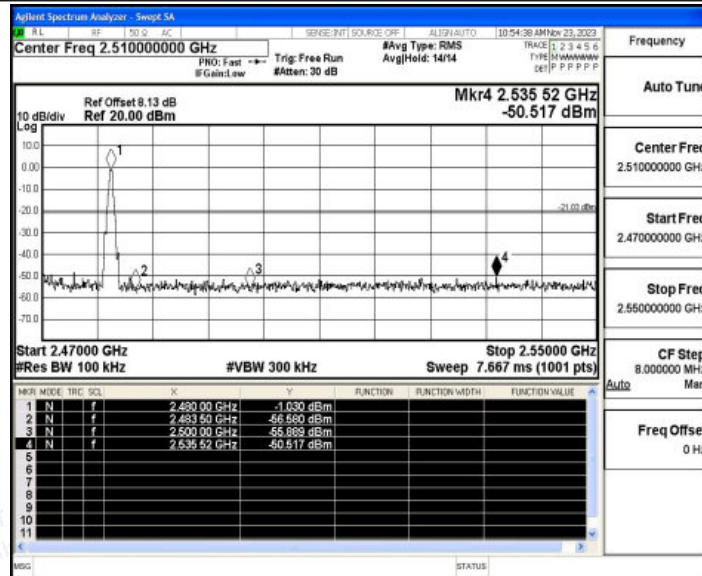


Test Graphs

DH5_Ant1_Low_2402

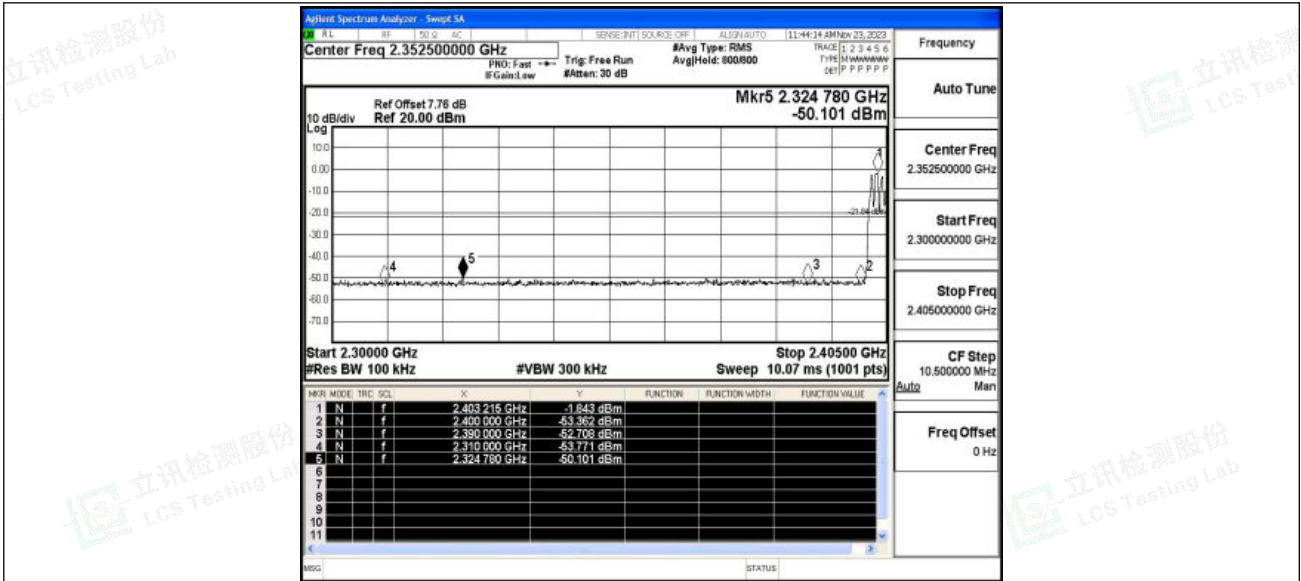


DH5_Ant1_High_2480

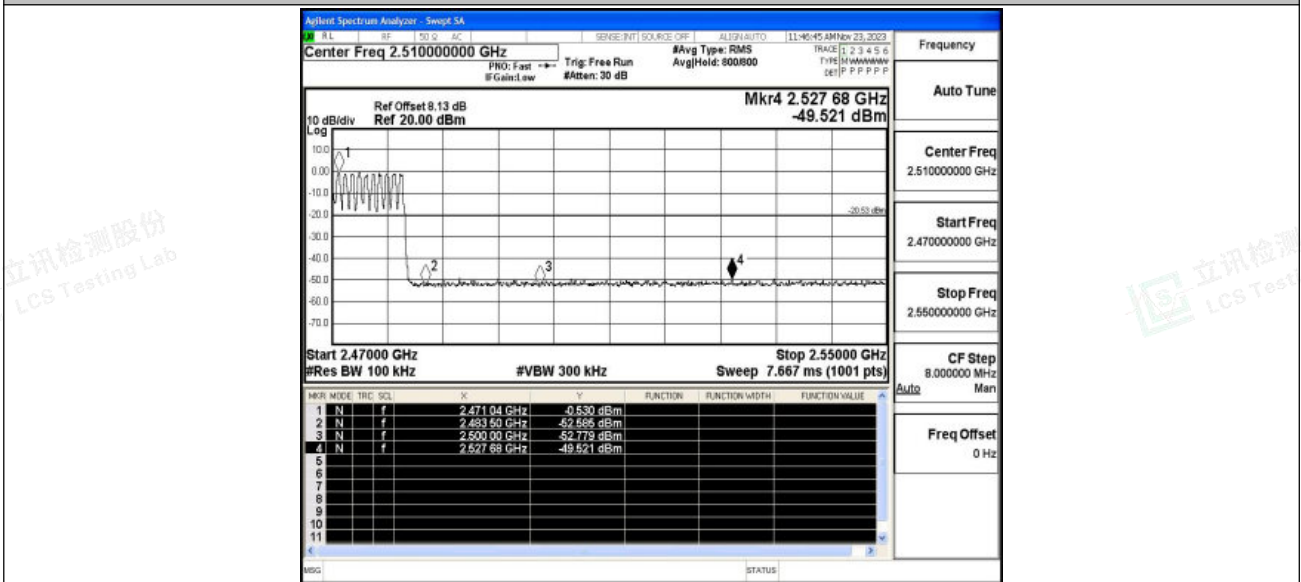


DH5_Ant1_Low_Hop_2402



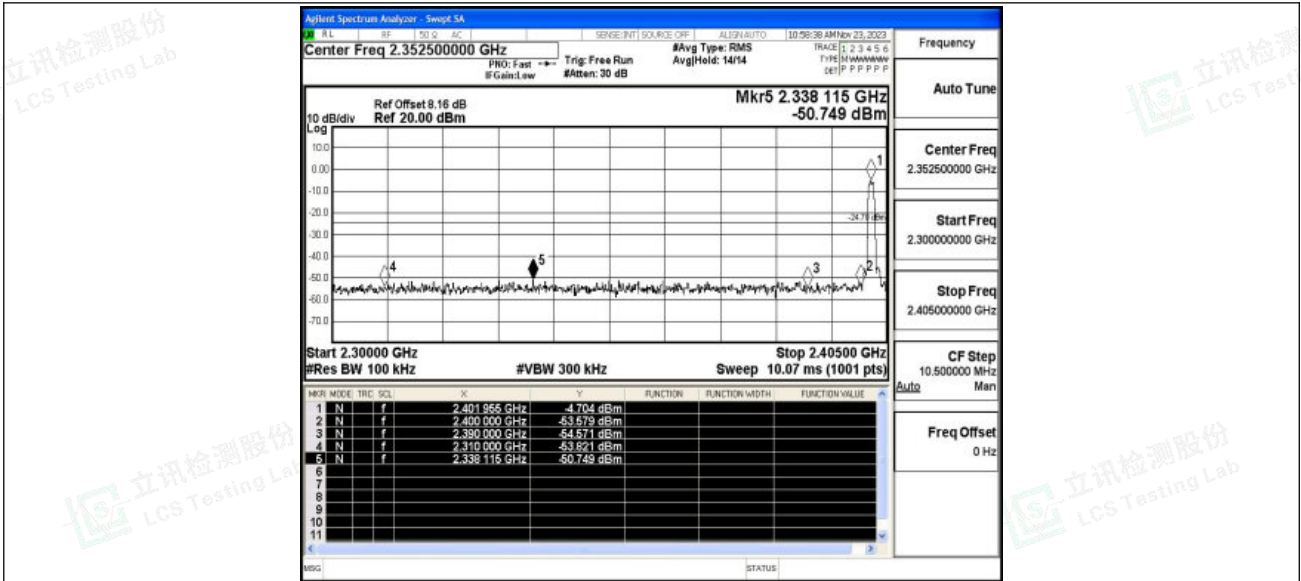


DH5_Ant1_High_Hop_2480

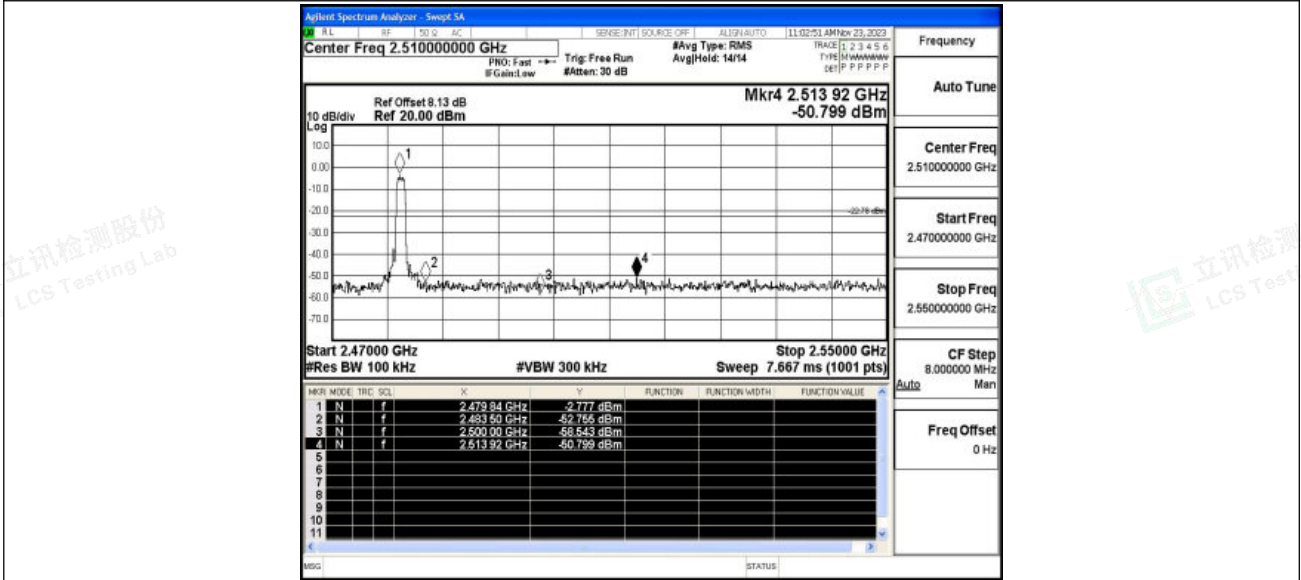


2DH5_Ant1_Low_2402



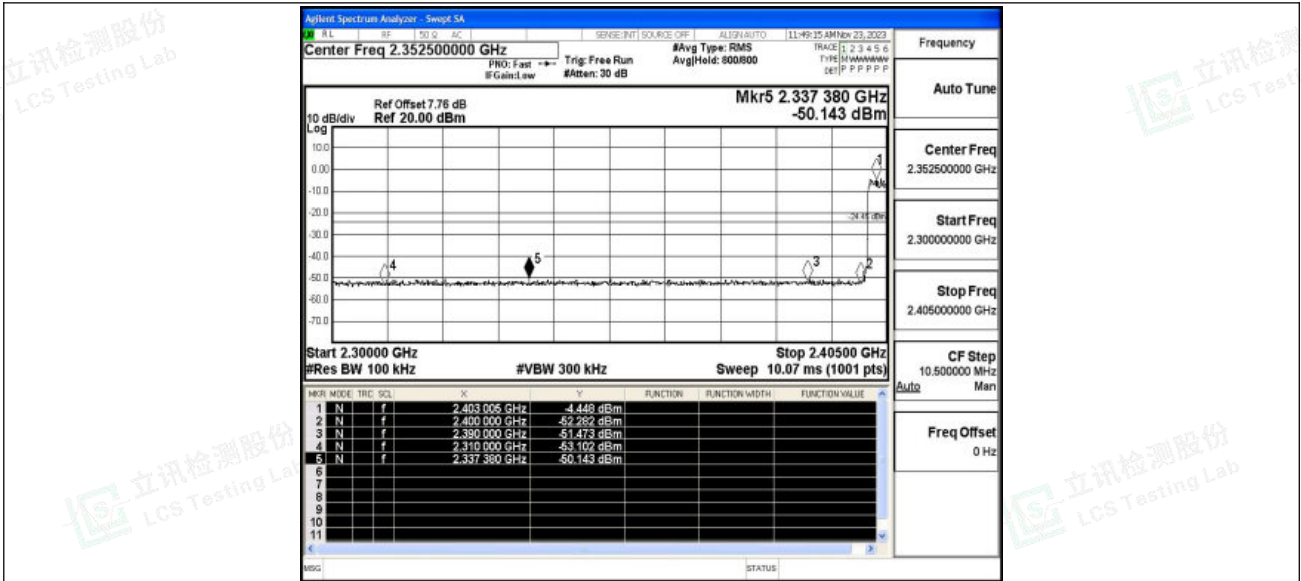


2DH5_Ant1_High_2480

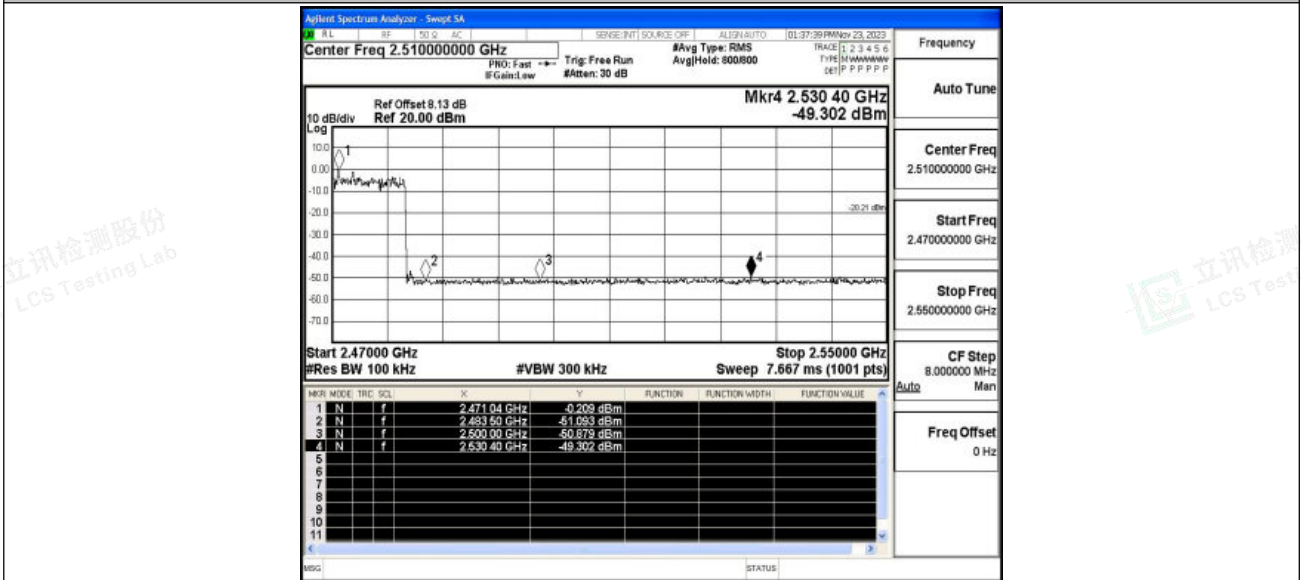


2DH5_Ant1_Low_Hop_2402



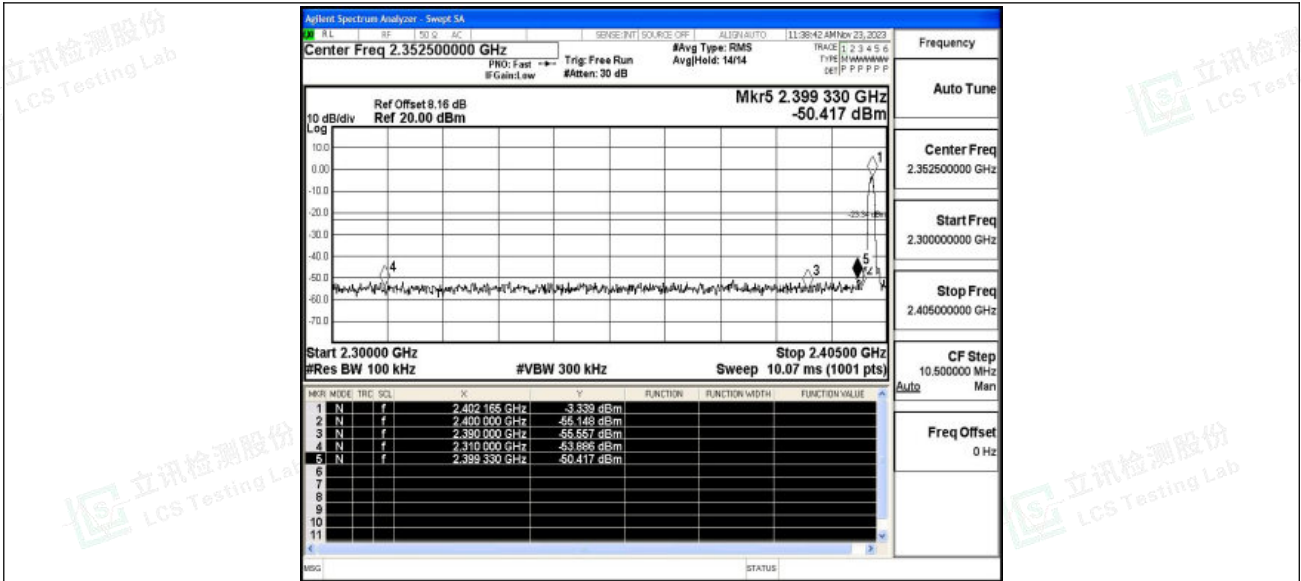


2DH5_Ant1_High_Hop_2480

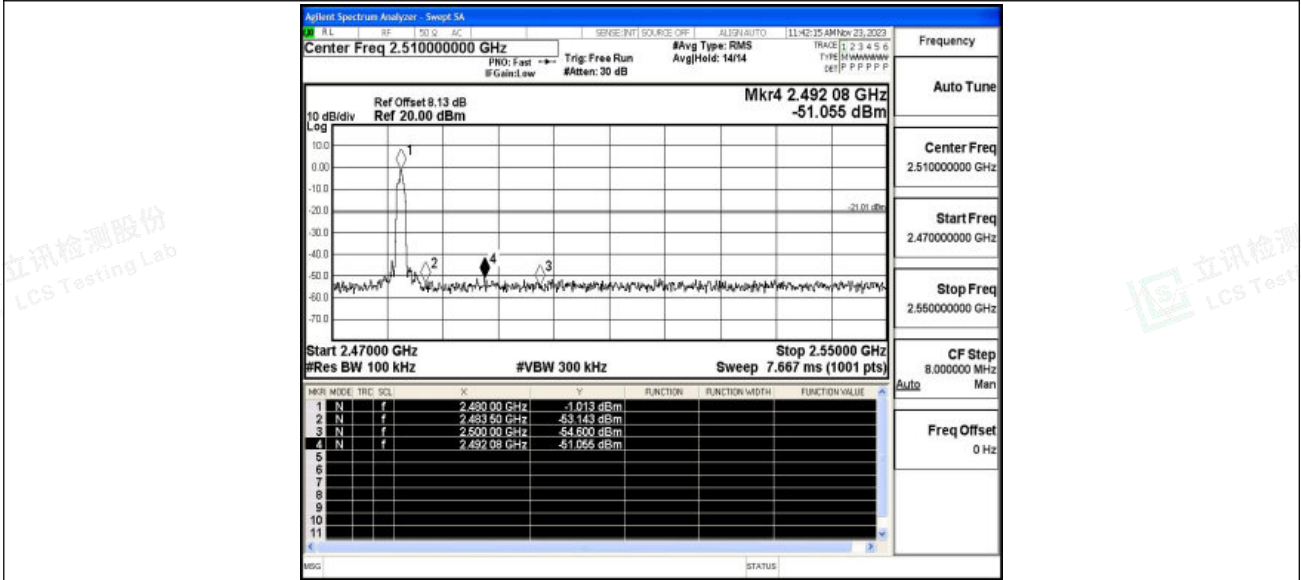


3DH5_Ant1_Low_2402



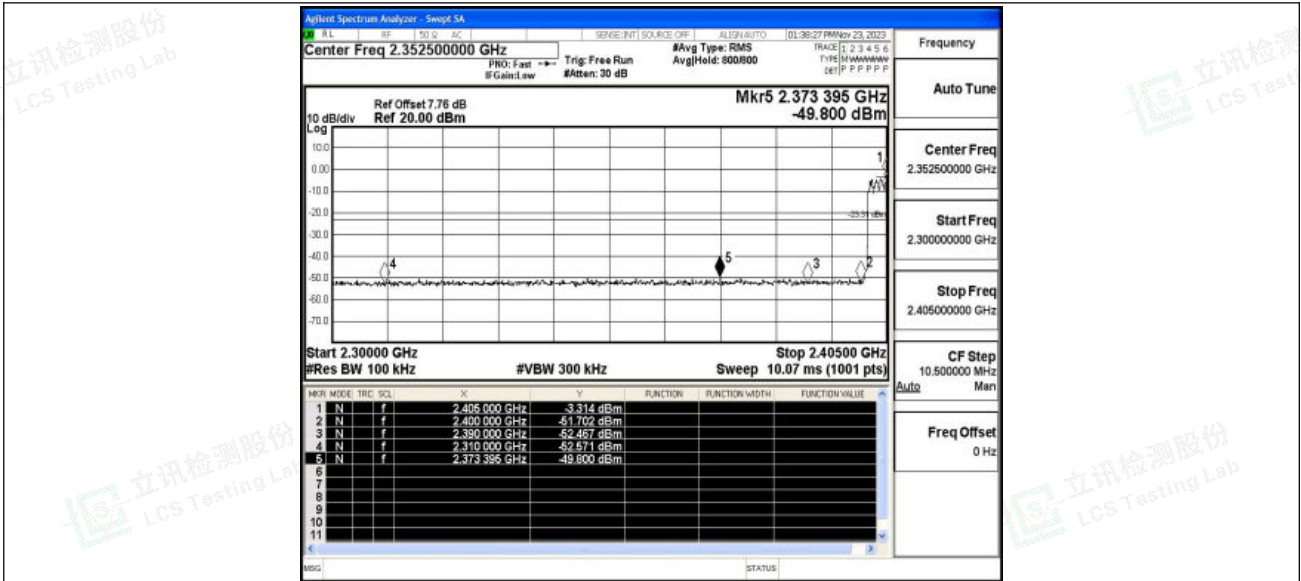


3DH5_Ant1_High_2480

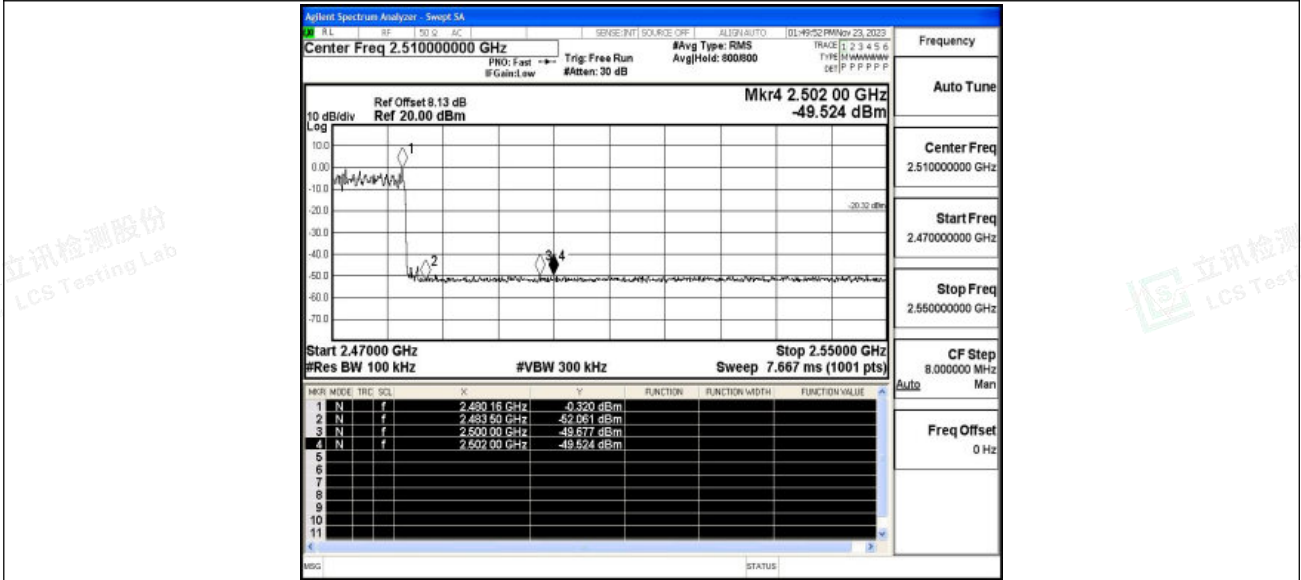


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-61.5	≤-21.69	PASS
			1000~26500	-1.69	-48.4	≤-21.69	PASS
		2441	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-60.85	≤-19.62	PASS
			1000~26500	0.38	-48.5	≤-19.62	PASS
		2480	Reference	-0.73	-0.73	---	PASS
			30~1000	-0.73	-61.97	≤-20.73	PASS
			1000~26500	-0.73	-49.23	≤-20.73	PASS
2DH5	Ant1	2402	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-61.68	≤-22.45	PASS
			1000~26500	-2.45	-49.3	≤-22.45	PASS
		2441	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-61.73	≤-19.64	PASS
			1000~26500	0.36	-48.89	≤-19.64	PASS
		2480	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-61.48	≤-22.84	PASS
			1000~26500	-2.84	-49.33	≤-22.84	PASS
3DH5	Ant1	2402	Reference	-2.72	-2.72	---	PASS
			30~1000	-2.72	-61.57	≤-22.72	PASS
			1000~26500	-2.72	-49.19	≤-22.72	PASS
		2441	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-61.59	≤-19.93	PASS
			1000~26500	0.07	-48.92	≤-19.93	PASS
		2480	Reference	-0.73	-0.73	---	PASS
			30~1000	-0.73	-61.79	≤-20.73	PASS
			1000~26500	-0.73	-48.61	≤-20.73	PASS



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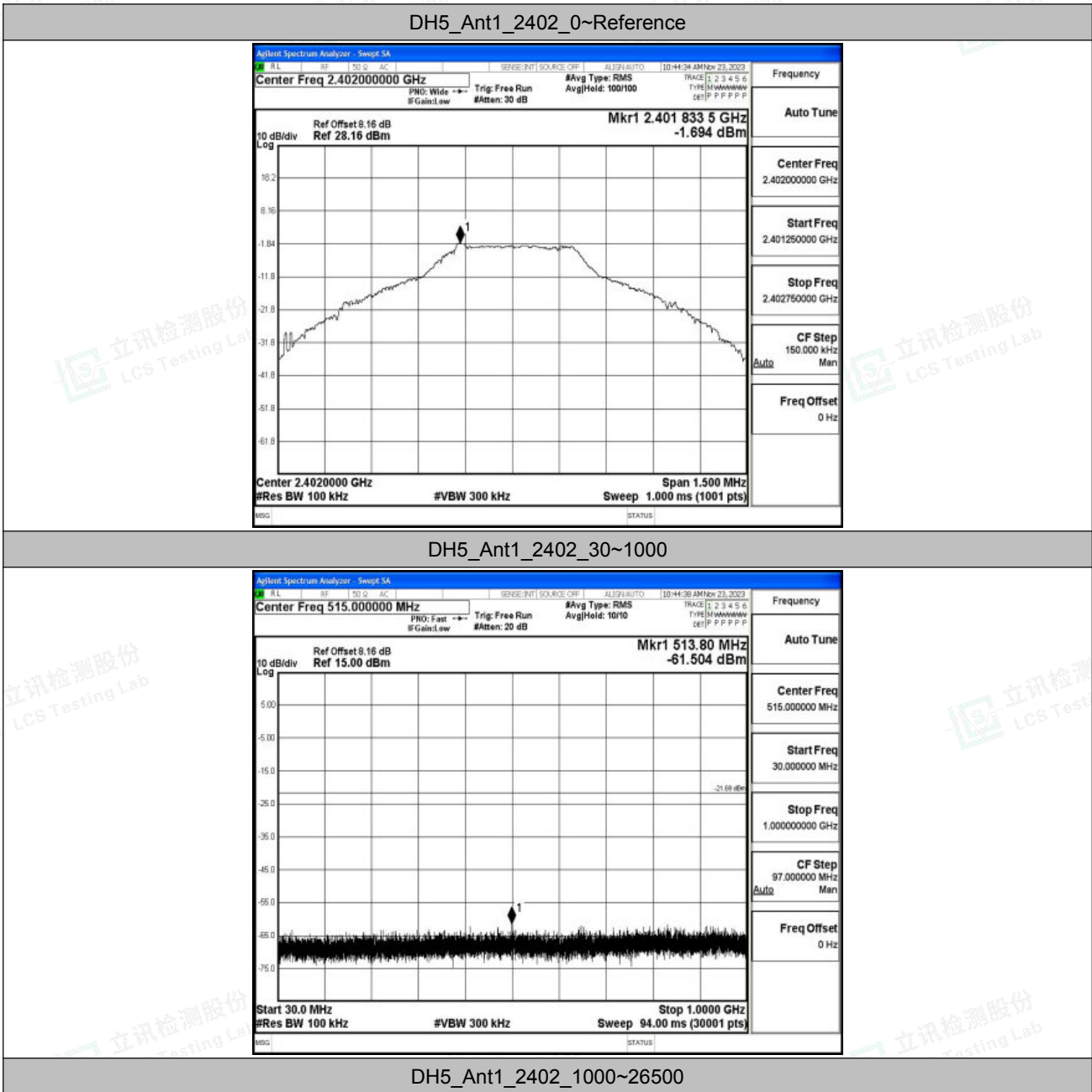
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

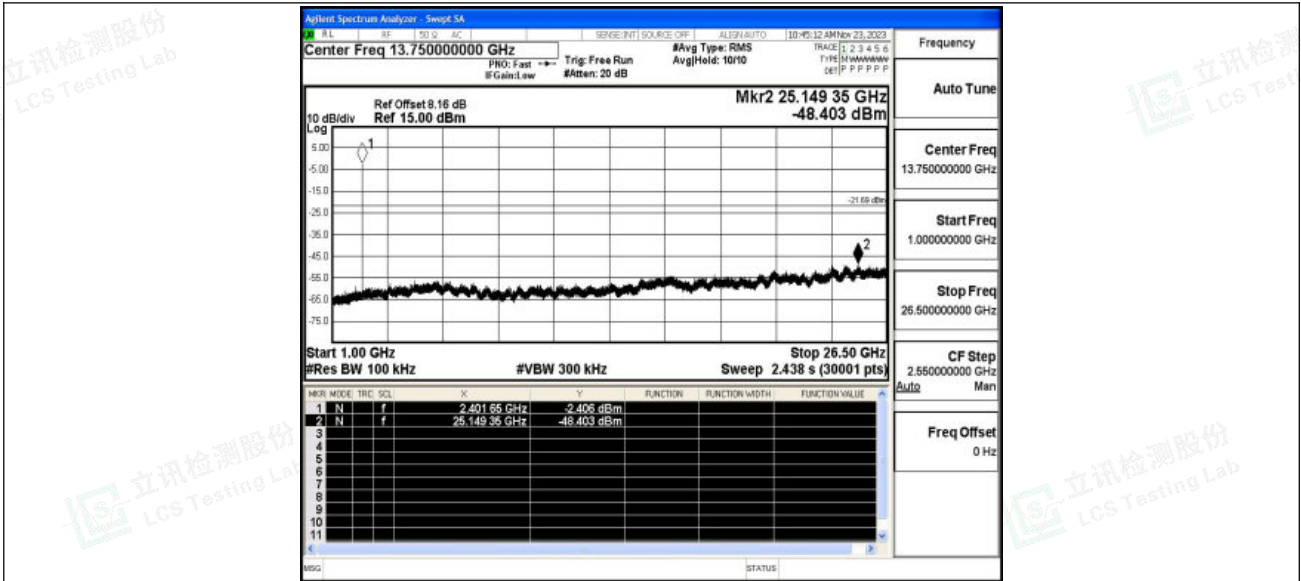
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

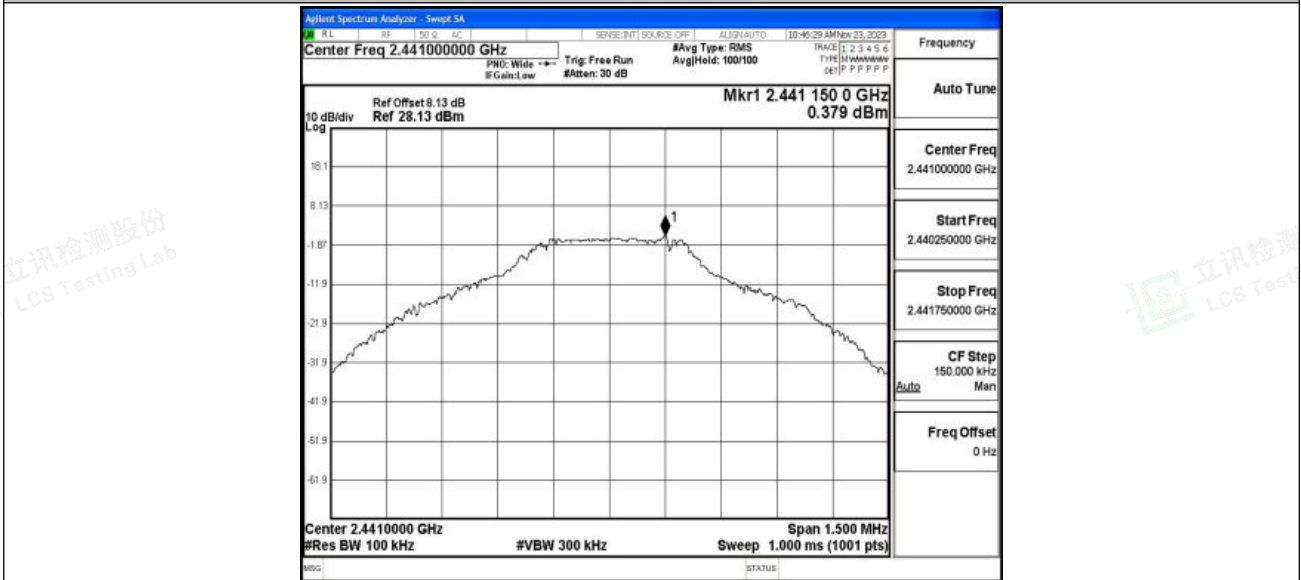


Test Graphs



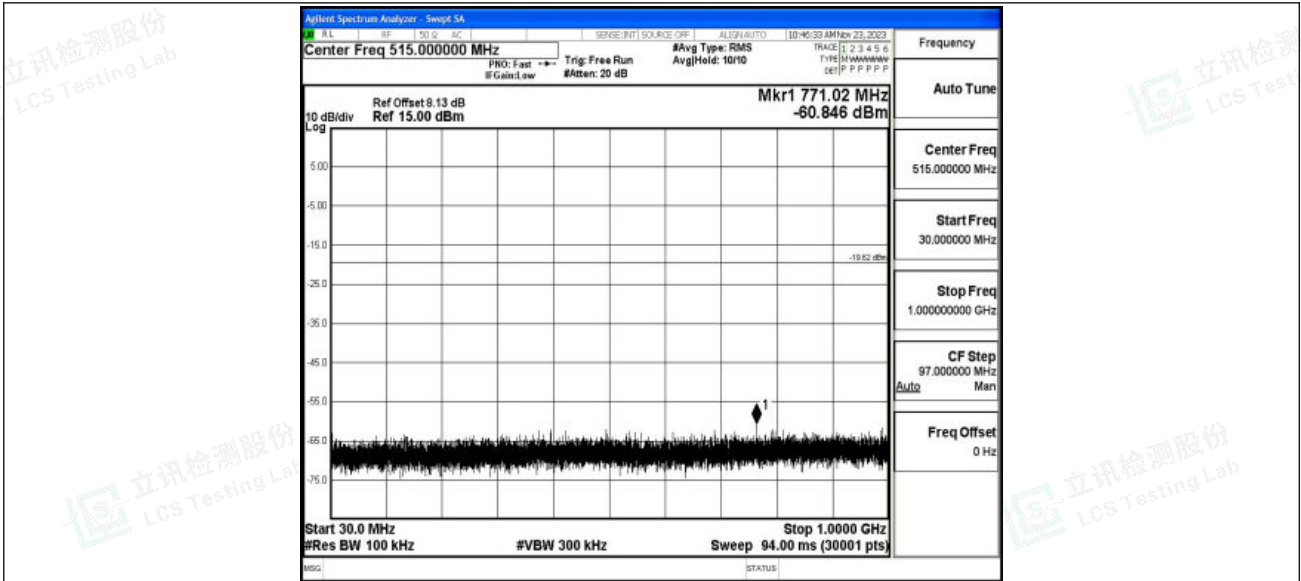


DH5_Ant1_2441_0~Reference

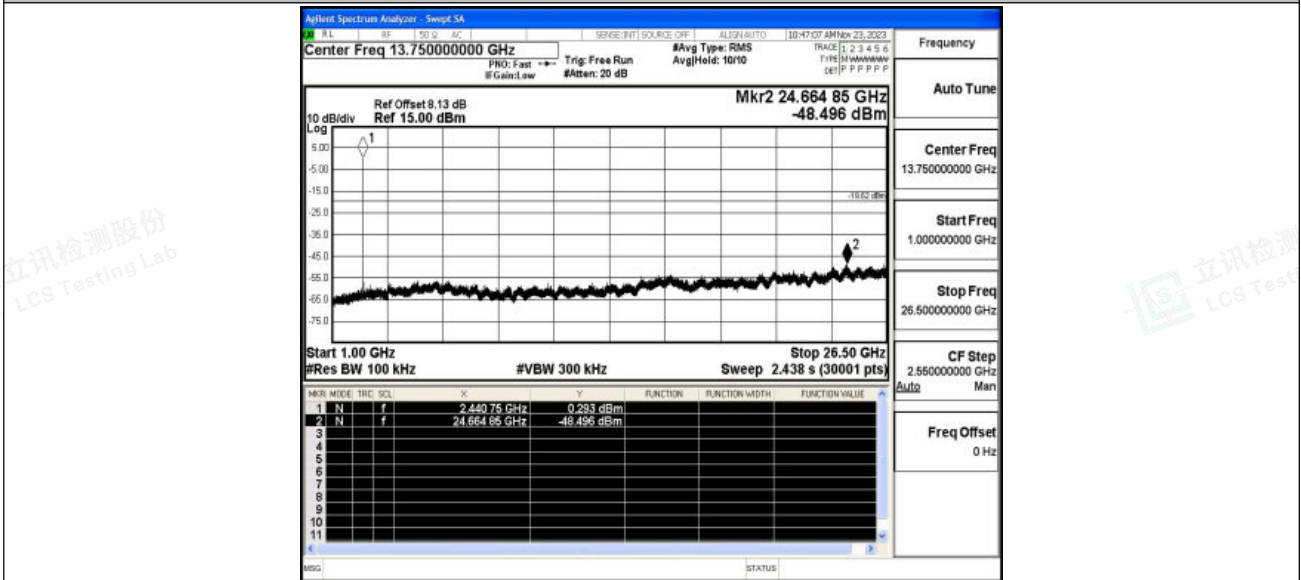


DH5_Ant1_2441_30~1000



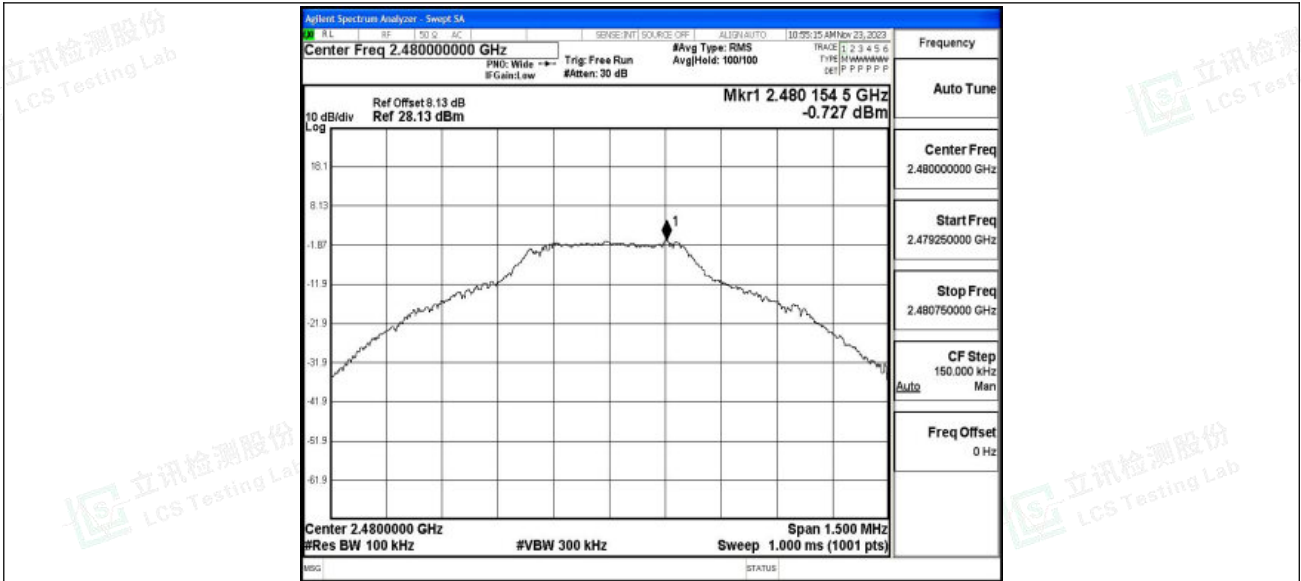


DH5_Ant1_2441_1000~26500

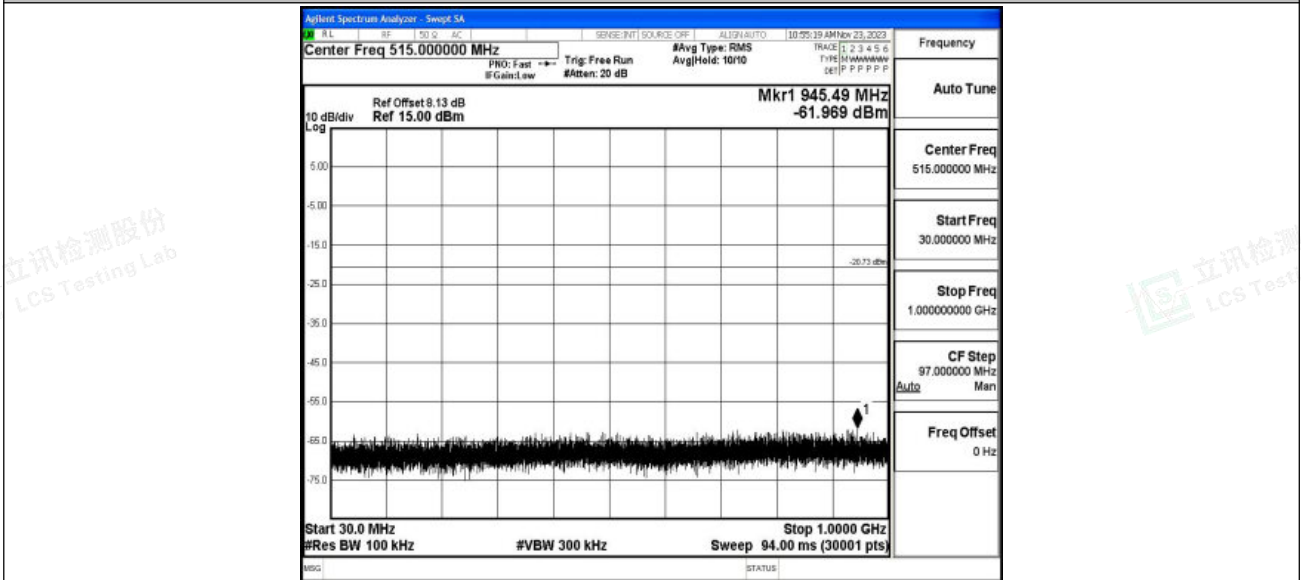


DH5_Ant1_2480_0~Reference



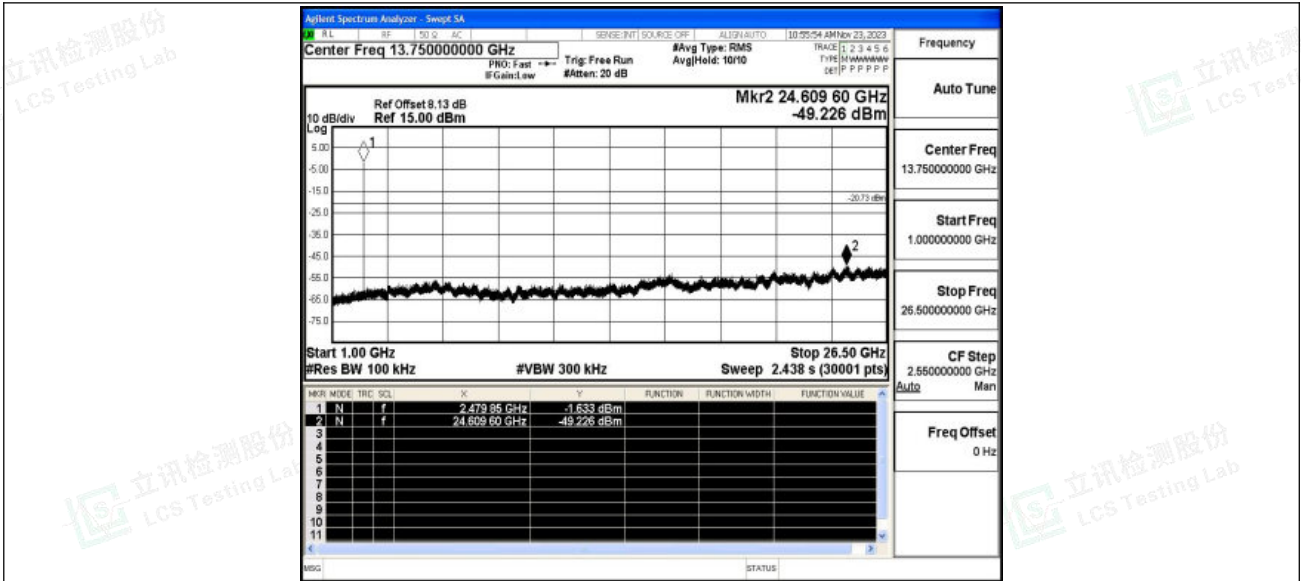


DH5_Ant1_2480_30~1000

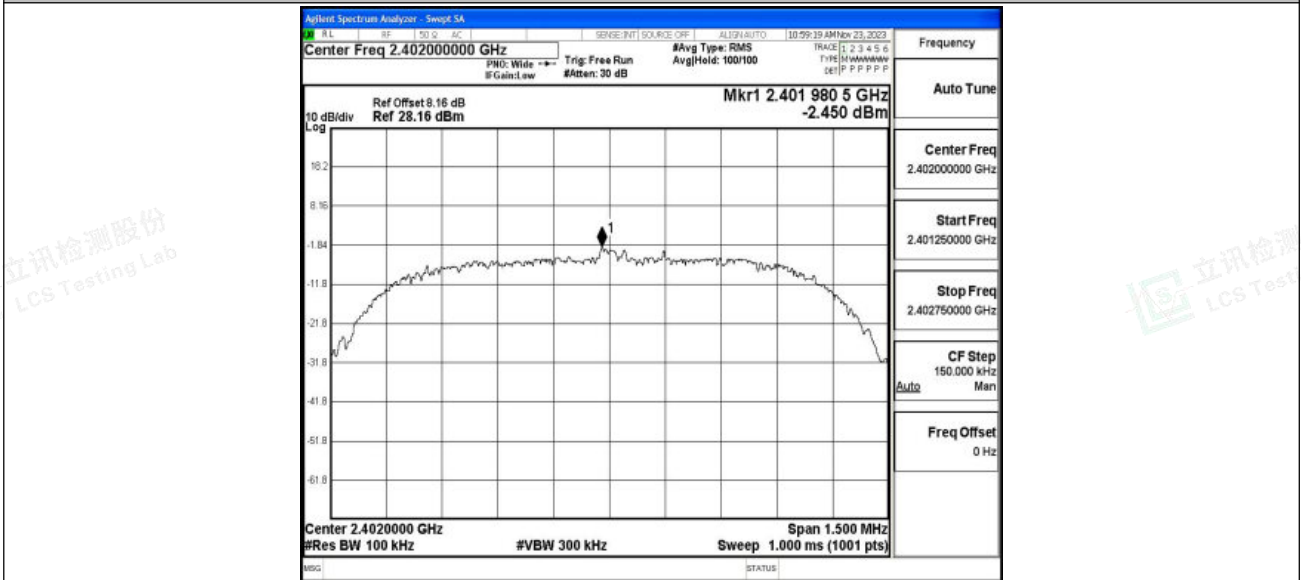


DH5_Ant1_2480_1000~26500



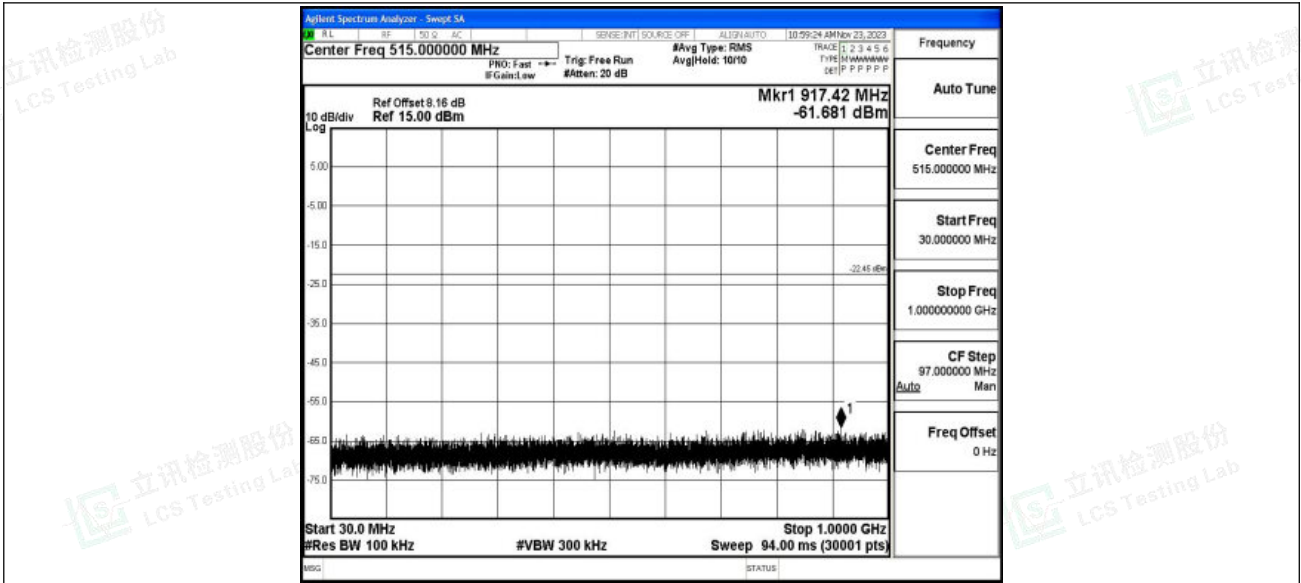


2DH5_Ant1_2402_0~Reference

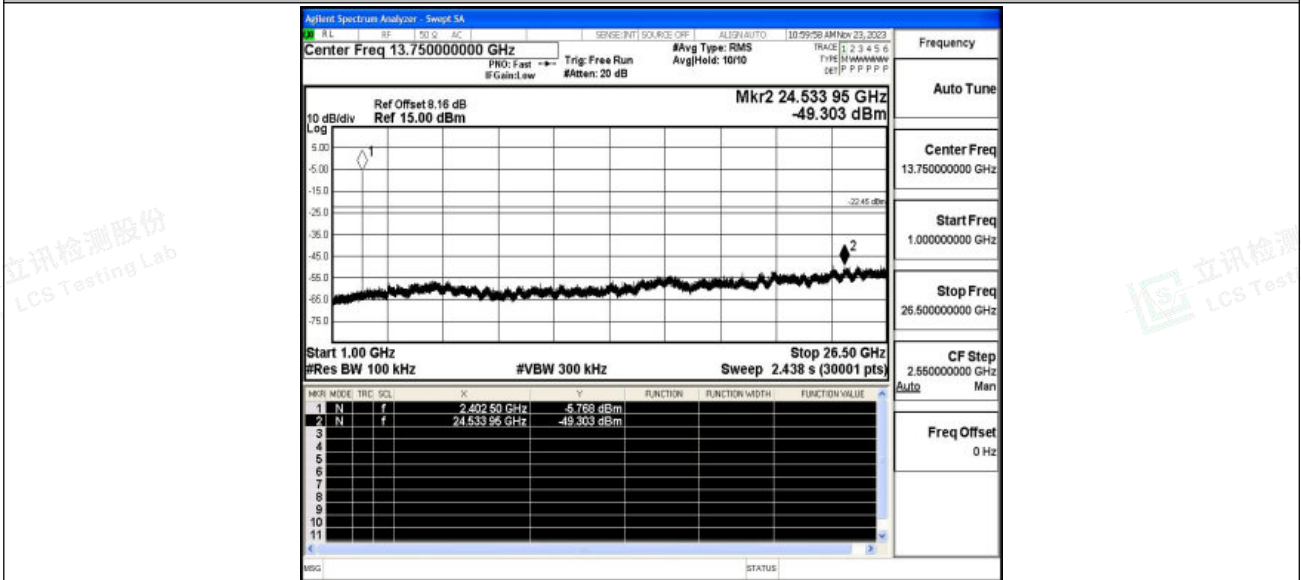


2DH5_Ant1_2402_30~1000



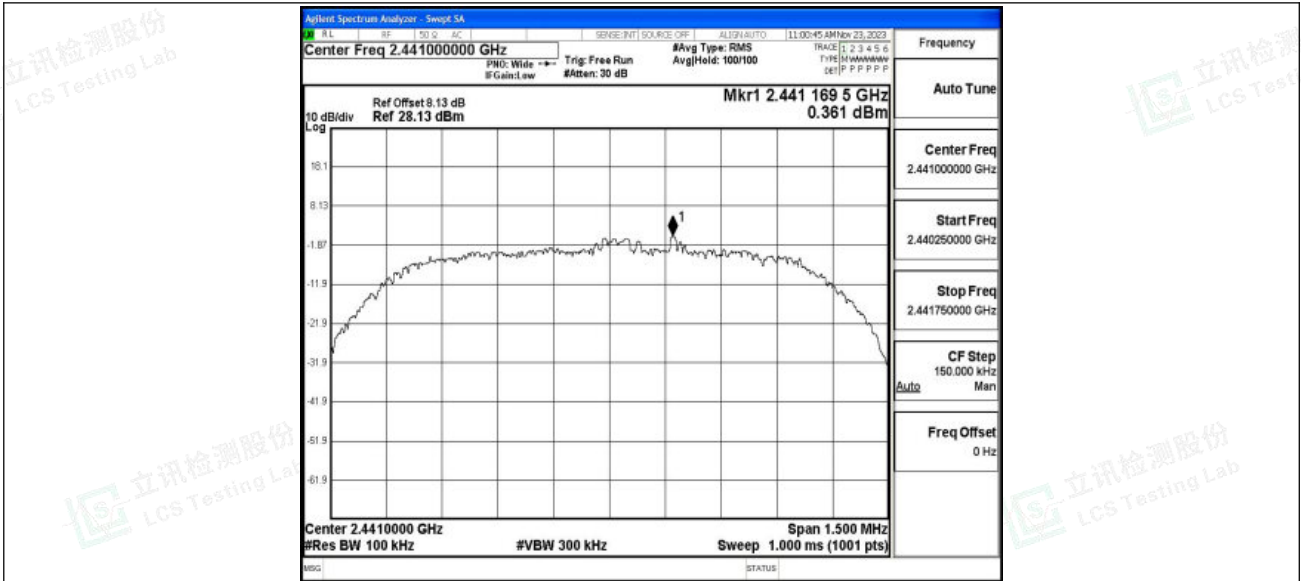


2DH5_Ant1_2402_1000~26500

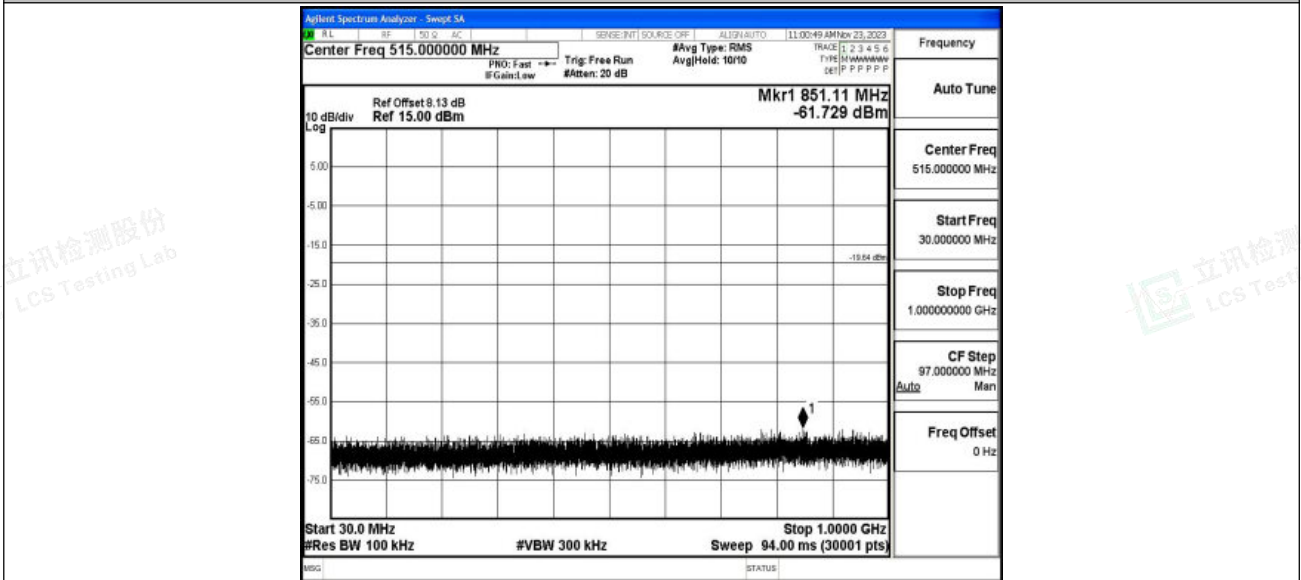


2DH5_Ant1_2441_0~Reference



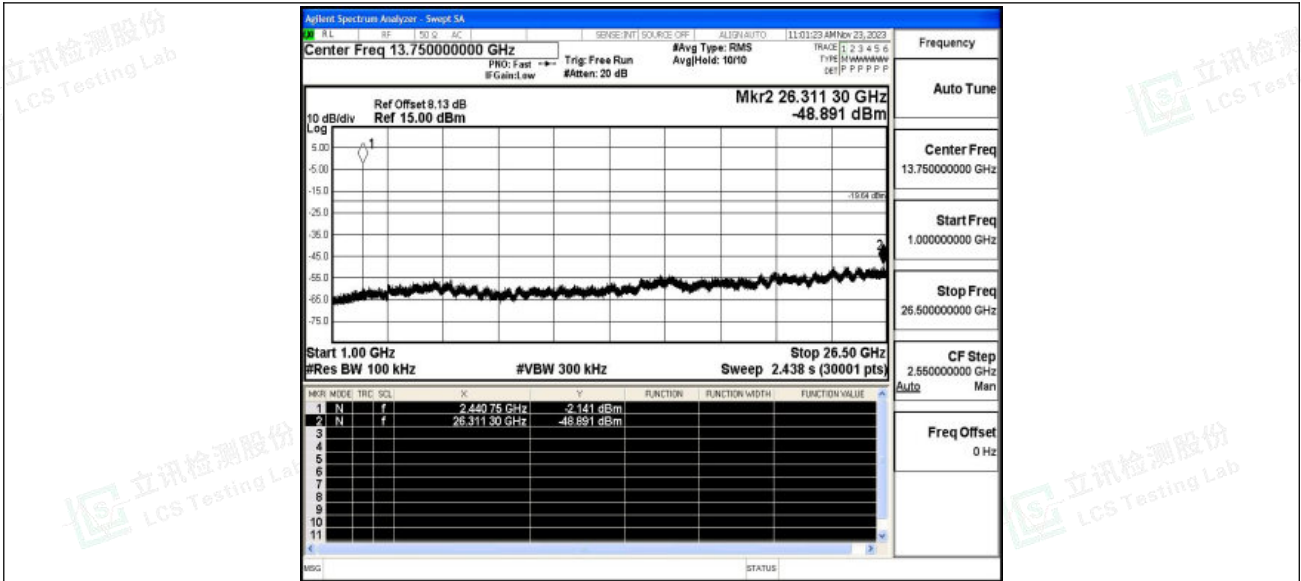


2DH5_Ant1_2441_30~1000

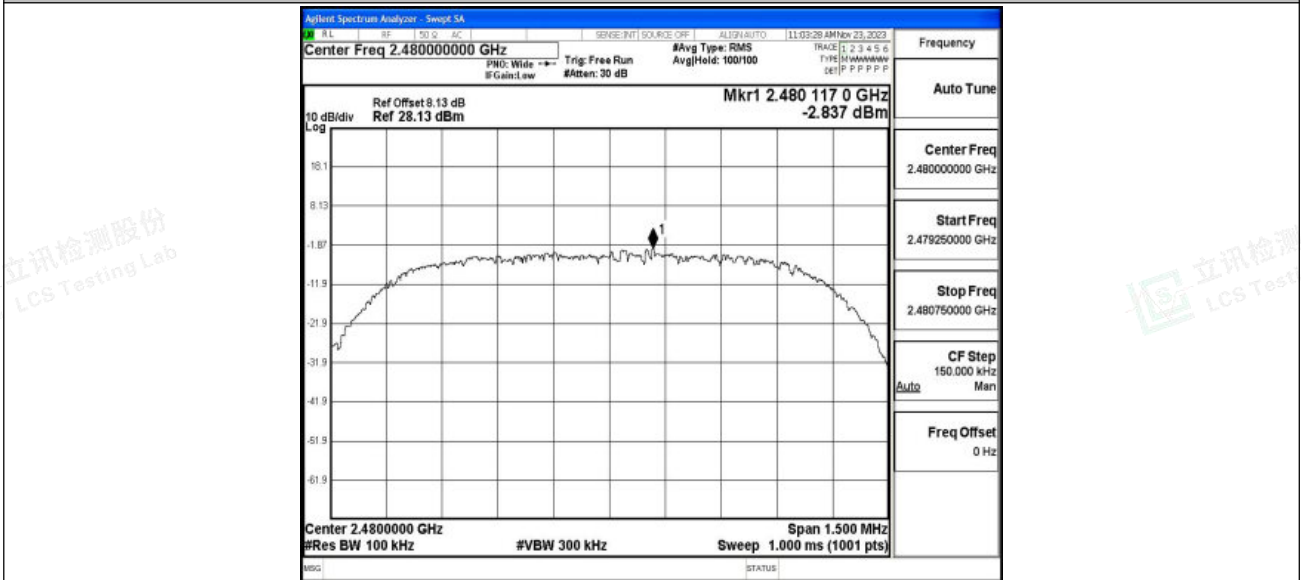


2DH5_Ant1_2441_1000~26500



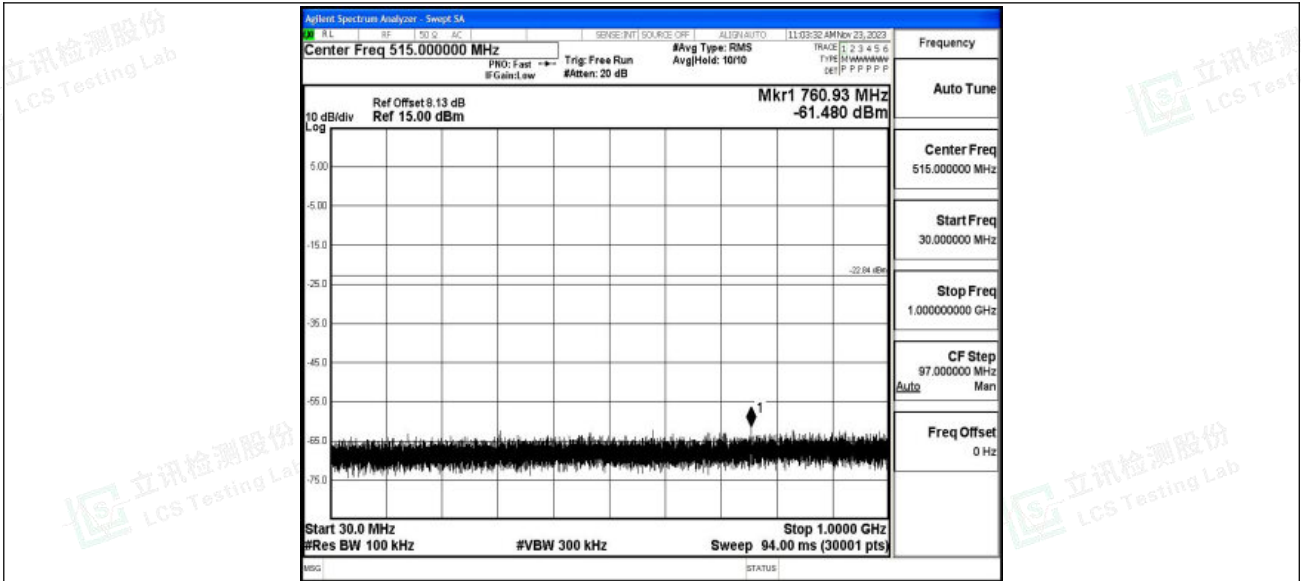


2DH5_Ant1_2480_0~Reference

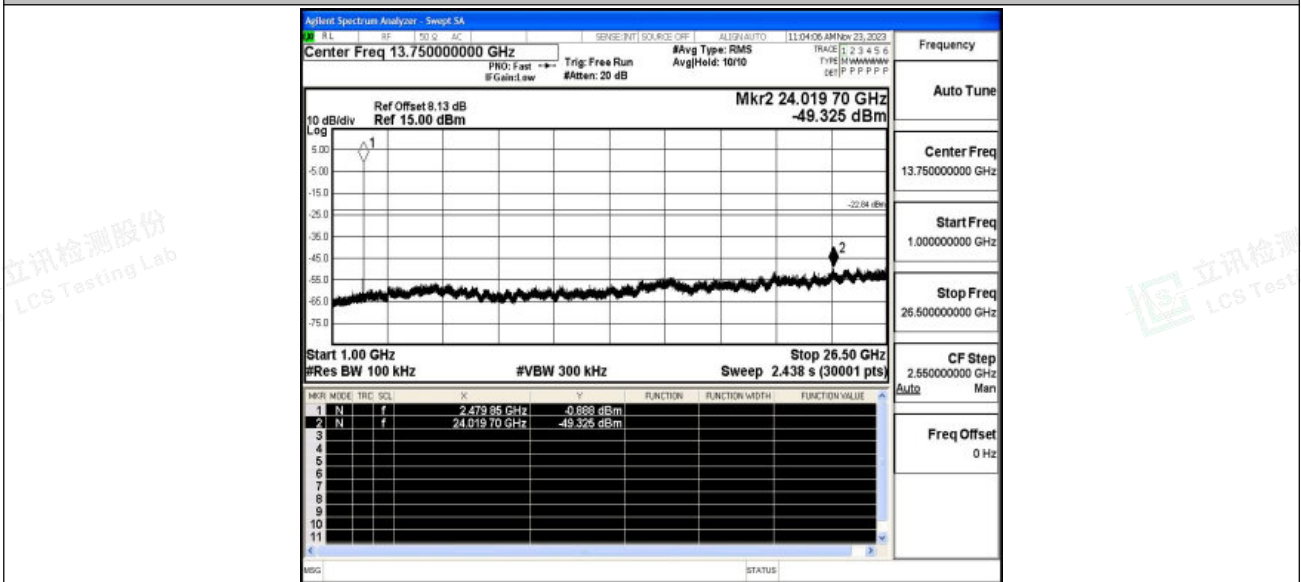


2DH5_Ant1_2480_30~1000



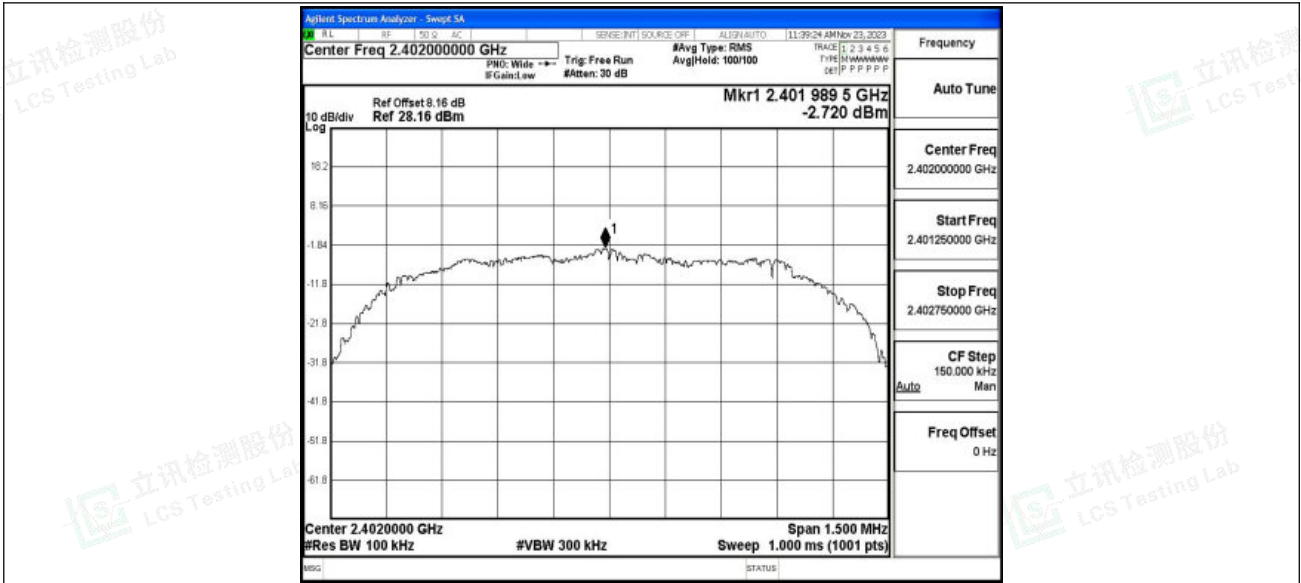


2DH5_Ant1_2480_1000~26500

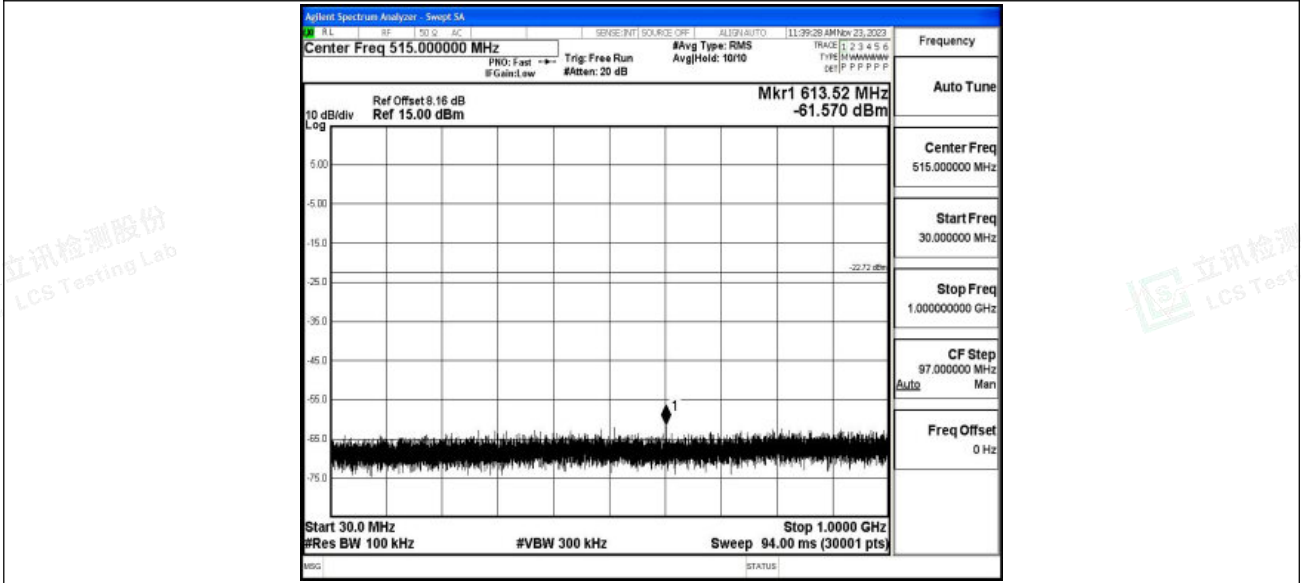


3DH5_Ant1_2402_0~Reference



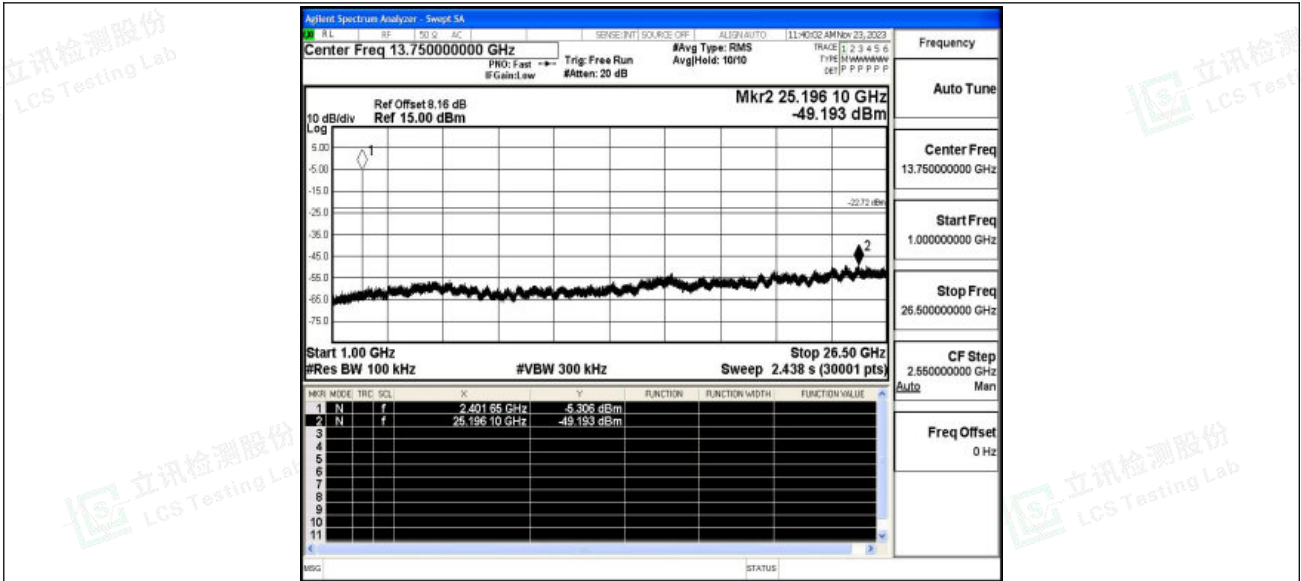


3DH5_Ant1_2402_30~1000

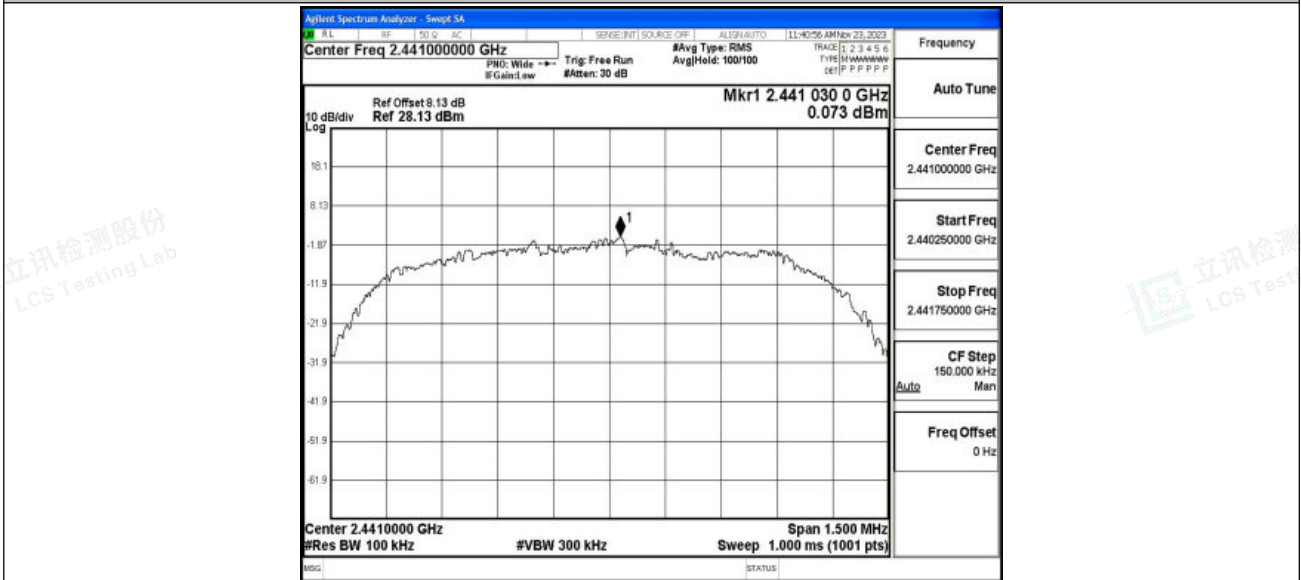


3DH5_Ant1_2402_1000~26500



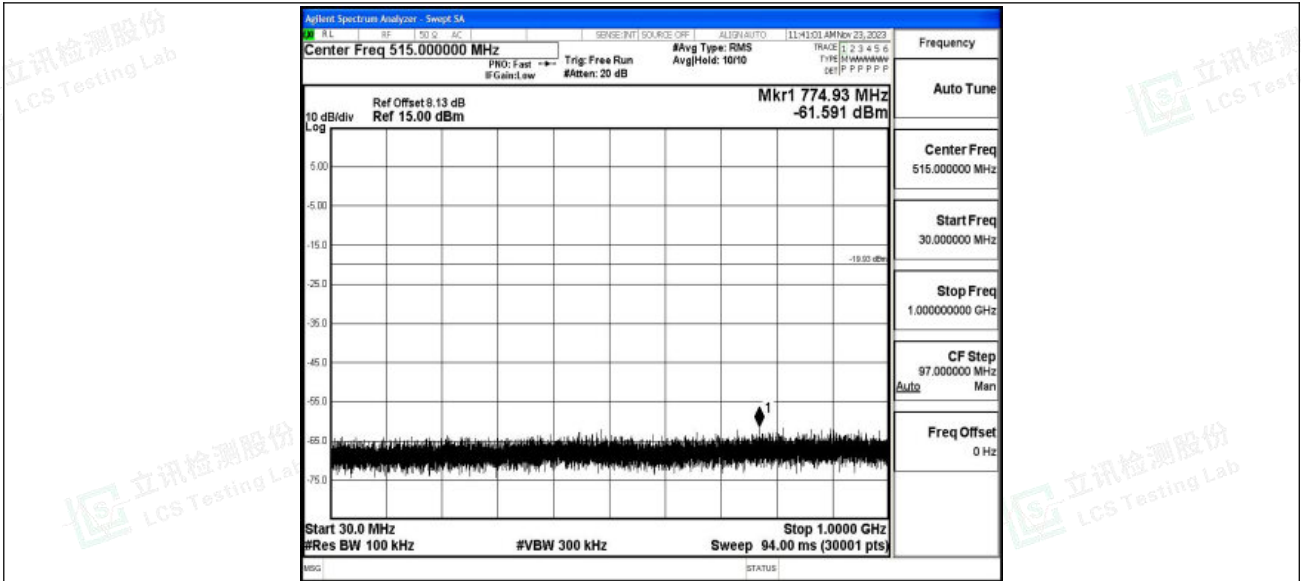


3DH5_Ant1_2441_0~Reference

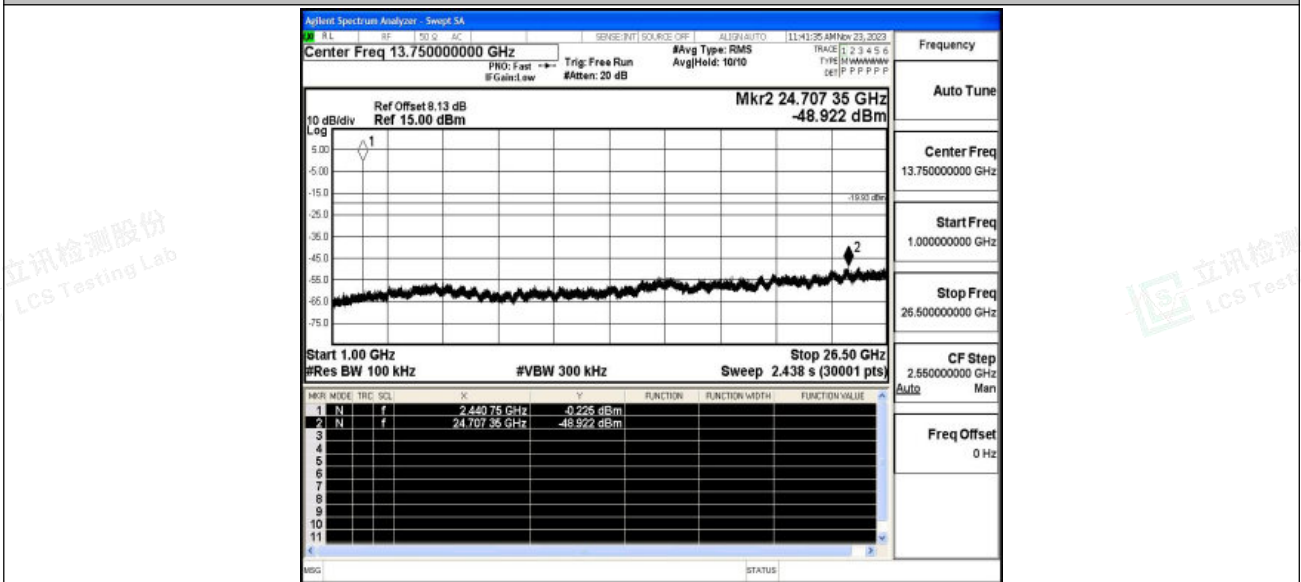


3DH5_Ant1_2441_30~1000



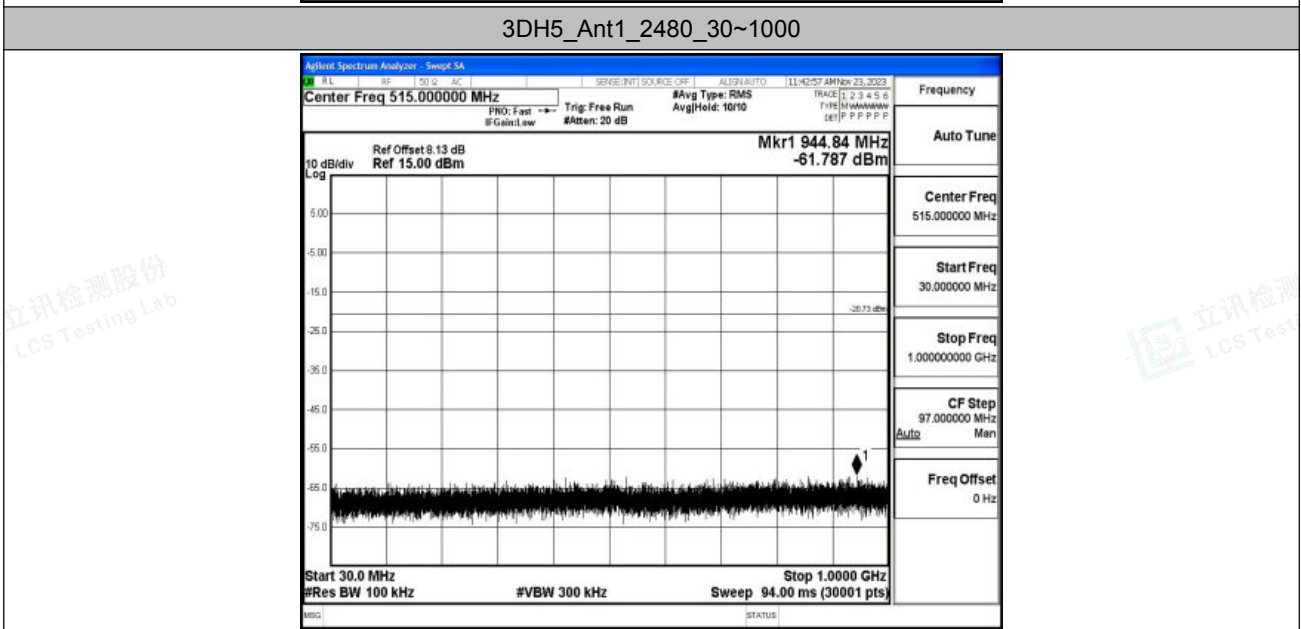
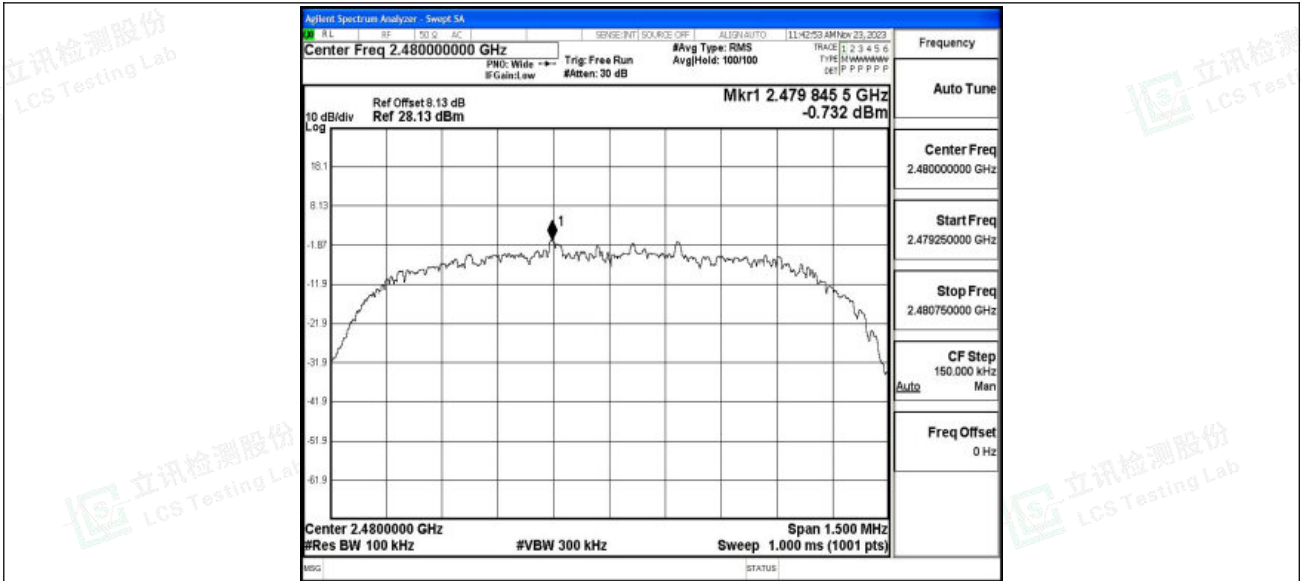


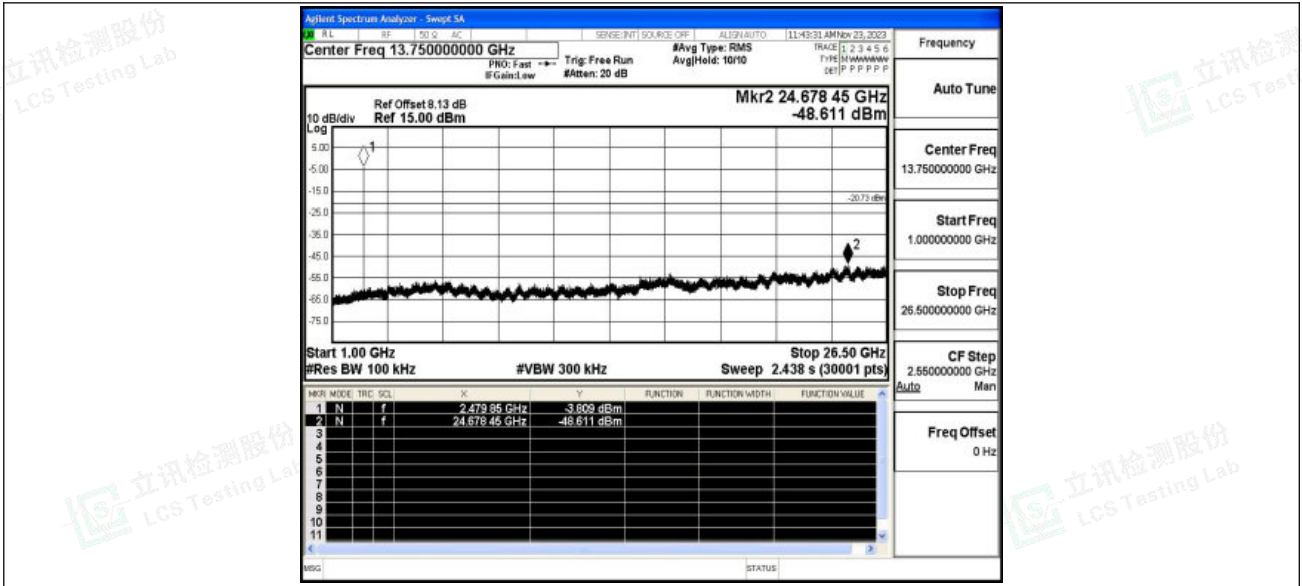
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference









A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict		
DH5	Ant1	Low	2402	AV	2310.000	-49.12	≤-41.20	46.08	≤54	PASS		
				AV	2384.840	-48.65	≤-41.20	46.55	≤54	PASS		
				AV	2390.000	-48.72	≤-41.20	46.48	≤54	PASS		
				Peak	2310.000	-43	≤-21.20	52.20	≤74	PASS		
				Peak	2328.980	-39.96	≤-21.20	55.24	≤74	PASS		
				Peak	2390.000	-43.07	≤-21.20	52.13	≤74	PASS		
		High	2480	AV	2483.500	-48.48	≤-41.20	46.72	≤54	PASS		
				AV	2483.520	-48.48	≤-41.20	46.72	≤54	PASS		
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS		
				Peak	2483.500	-44.5	≤-21.20	50.70	≤74	PASS		
				Peak	2495.520	-39.51	≤-21.20	55.69	≤74	PASS		
				Peak	2500.000	-42	≤-21.20	53.20	≤74	PASS		
		Low	Hop_2402	Peak	2310.000	-41.15	≤-21.20	54.05	≤74	PASS		
				Peak	2320.055	-38.51	≤-21.20	56.69	≤74	PASS		
				Peak	2390.000	-41.84	≤-21.20	53.36	≤74	PASS		
		High	Hop_2480	Peak	2483.500	-40.95	≤-21.20	54.25	≤74	PASS		
				Peak	2497.200	-38.45	≤-21.20	56.75	≤74	PASS		
				Peak	2500.000	-41.21	≤-21.20	53.99	≤74	PASS		
		2DH5	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	46.10	≤54	PASS
						AV	2388.620	-48.61	≤-41.20	46.59	≤54	PASS
						AV	2390.000	-48.7	≤-41.20	46.50	≤54	PASS
Peak	2310.000					-42.73	≤-21.20	52.47	≤74	PASS		
Peak	2330.030					-39.74	≤-21.20	55.46	≤74	PASS		
Peak	2390.000					-44.16	≤-21.20	51.04	≤74	PASS		
High	2480			AV	2483.500	-48.07	≤-41.20	47.13	≤54	PASS		
				AV	2483.520	-48.07	≤-41.20	47.13	≤54	PASS		
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS		
				Peak	2483.500	-42.03	≤-21.20	53.17	≤74	PASS		
				Peak	2493.120	-39.55	≤-21.20	55.65	≤74	PASS		
				Peak	2500.000	-43.82	≤-21.20	51.38	≤74	PASS		
Low	Hop_2402			Peak	2310.000	-41.03	≤-21.20	54.17	≤74	PASS		
				Peak	2376.650	-38.64	≤-21.20	56.56	≤74	PASS		
				Peak	2390.000	-41.35	≤-21.20	53.85	≤74	PASS		
High	Hop_2480			Peak	2483.500	-38.28	≤-21.20	56.92	≤74	PASS		
				Peak	2499.680	-38.27	≤-21.20	56.93	≤74	PASS		
				Peak	2500.000	-39.98	≤-21.20	55.22	≤74	PASS		



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Scan code to check authenticity



3DH5	Ant1	Low	2402	AV	2310.000	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2382.530	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2310.000	-43.71	≤-21.20	51.49	≤74	PASS
				Peak	2385.575	-39.47	≤-21.20	55.73	≤74	PASS
				Peak	2390.000	-43.9	≤-21.20	51.30	≤74	PASS
		High	2480	AV	2483.500	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2483.520	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-41.4	≤-21.20	53.80	≤74	PASS
				Peak	2492.160	-39.61	≤-21.20	55.59	≤74	PASS
				Peak	2500.000	-45.5	≤-21.20	49.70	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.01	≤-21.20	54.19	≤74	PASS
				Peak	2362.580	-38.23	≤-21.20	56.97	≤74	PASS
				Peak	2390.000	-39.57	≤-21.20	55.63	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.71	≤-21.20	55.49	≤74	PASS
				Peak	2484.640	-37.59	≤-21.20	57.61	≤74	PASS
				Peak	2500.000	-40.55	≤-21.20	54.65	≤74	PASS

Note:

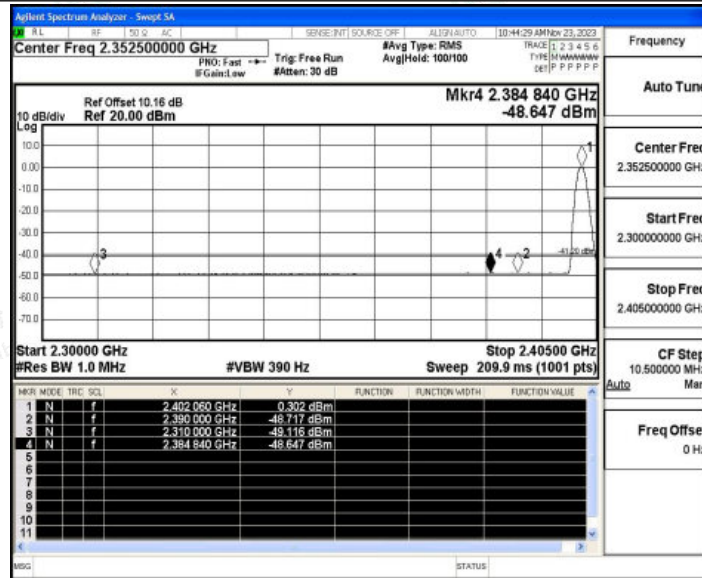
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



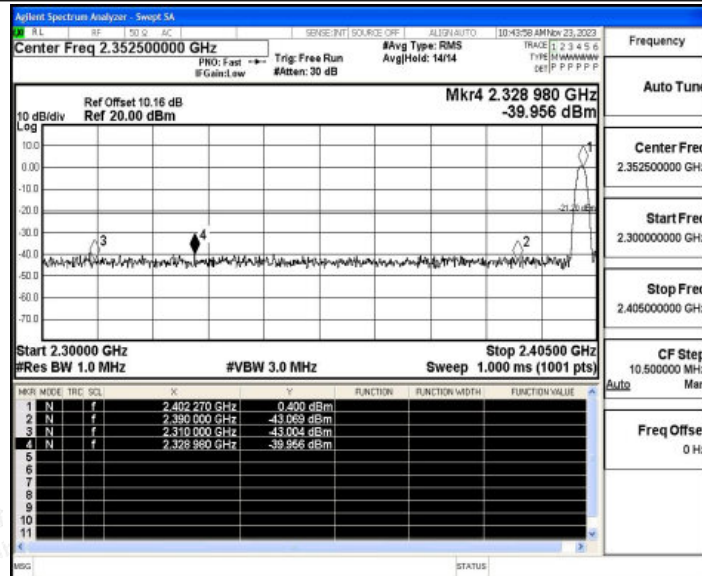


Test Graphs

DH5_Ant1_Low_2402_AV

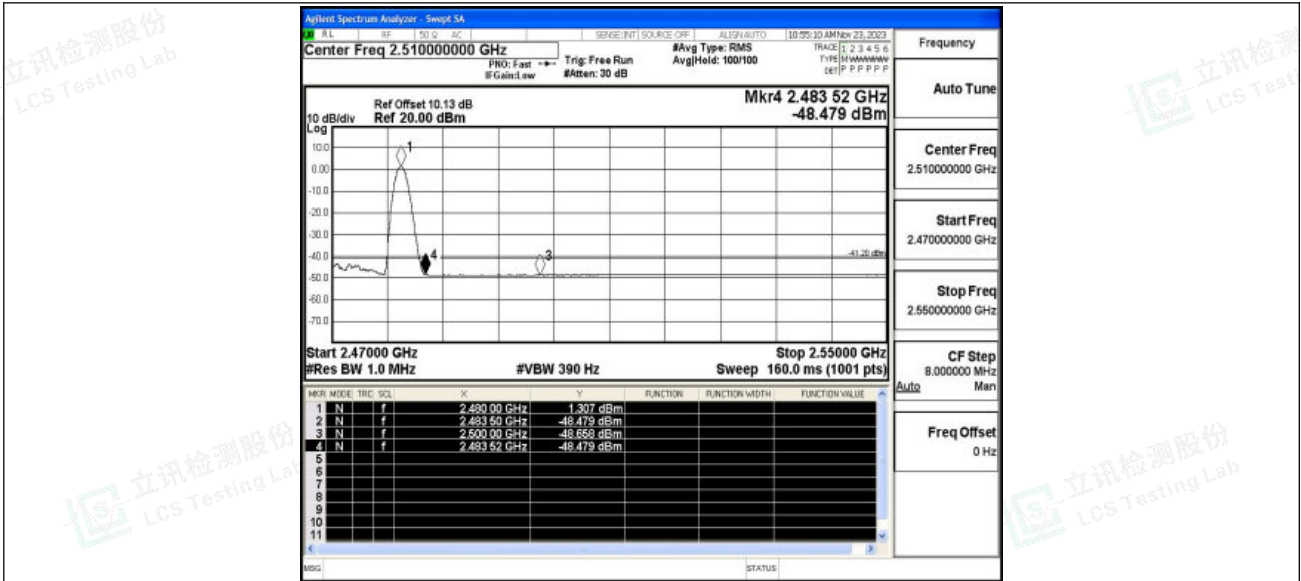


DH5_Ant1_Low_2402_Peak

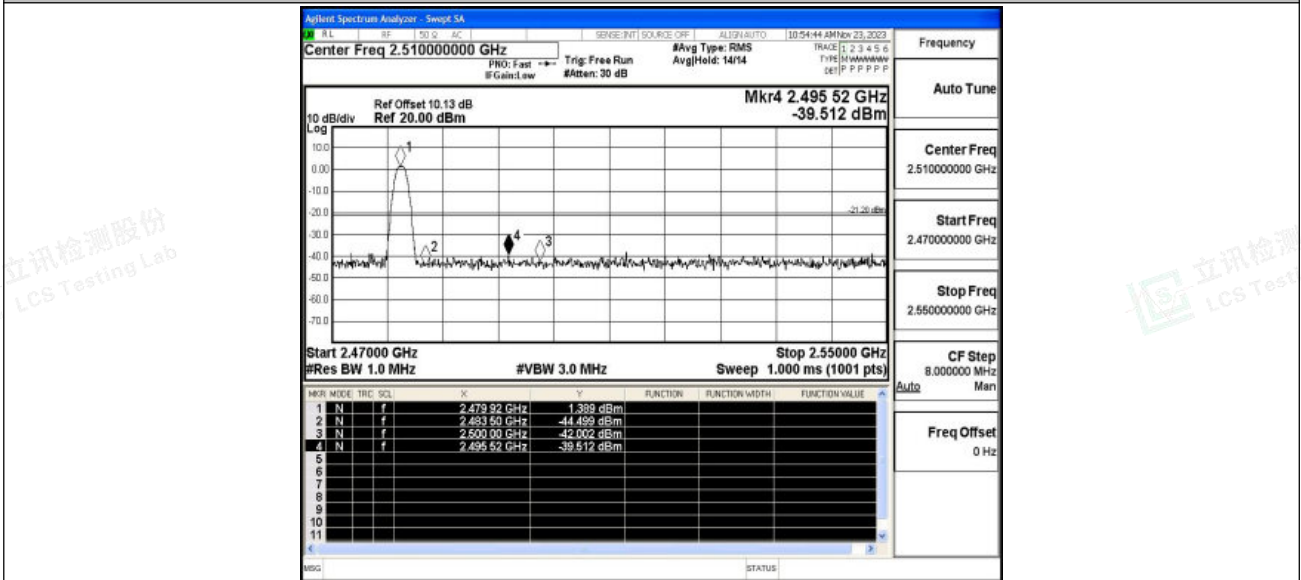


DH5_Ant1_High_2480_AV



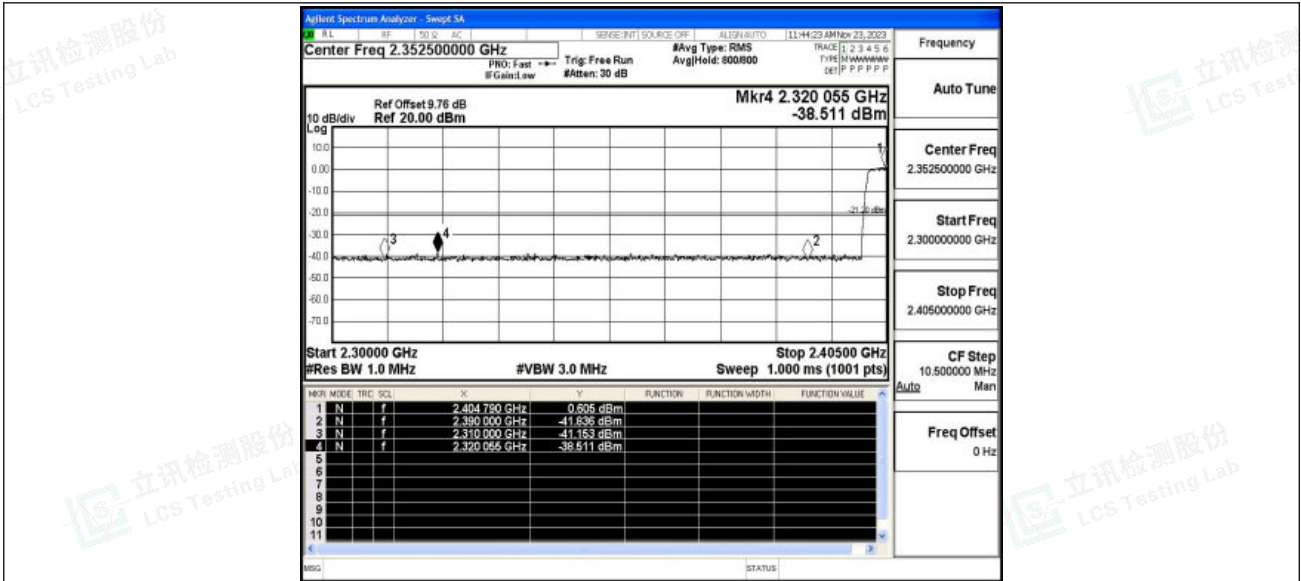


DH5_Ant1_High_2480_Peak

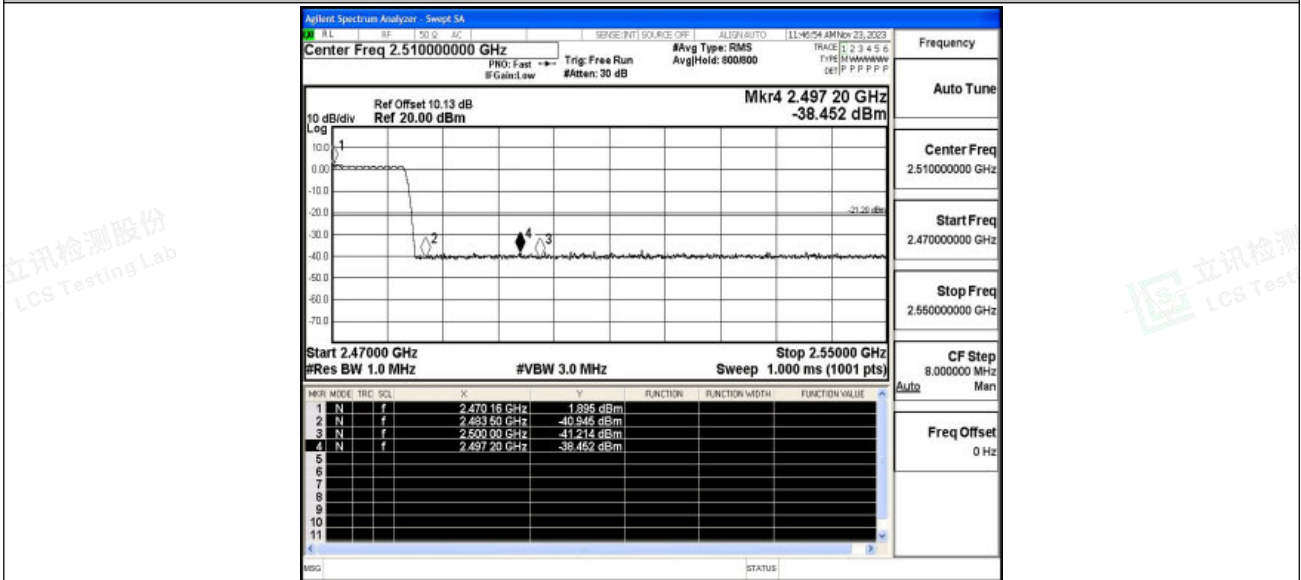


DH5_Ant1_Low_Hop_2402_Peak



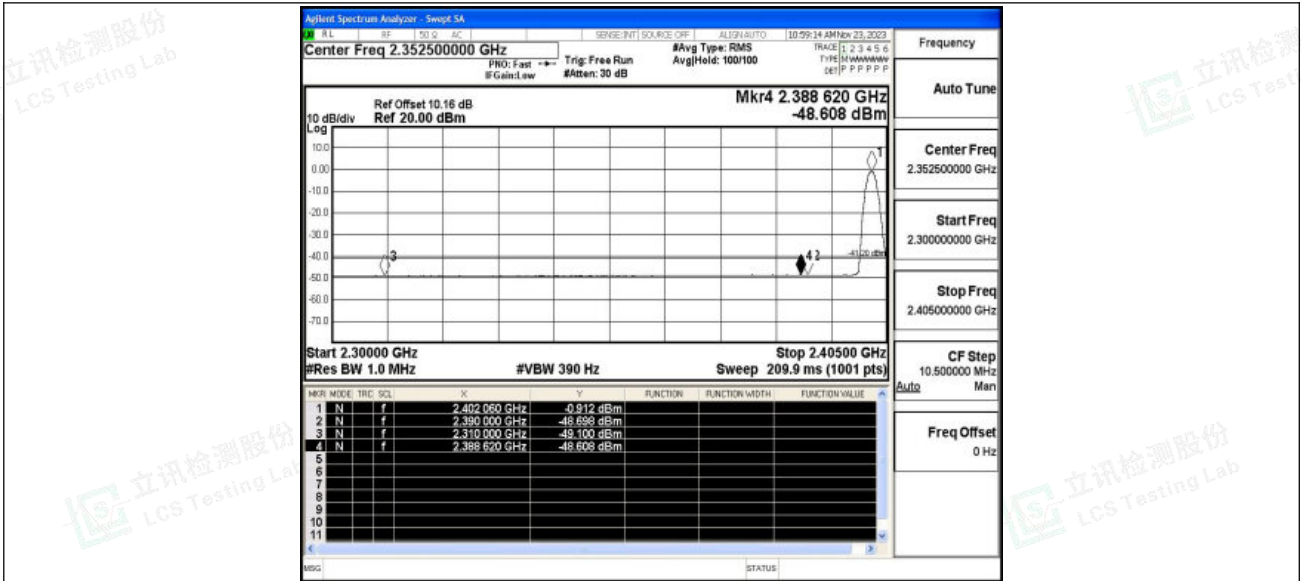


DH5_Ant1_High_Hop_2480_Peak

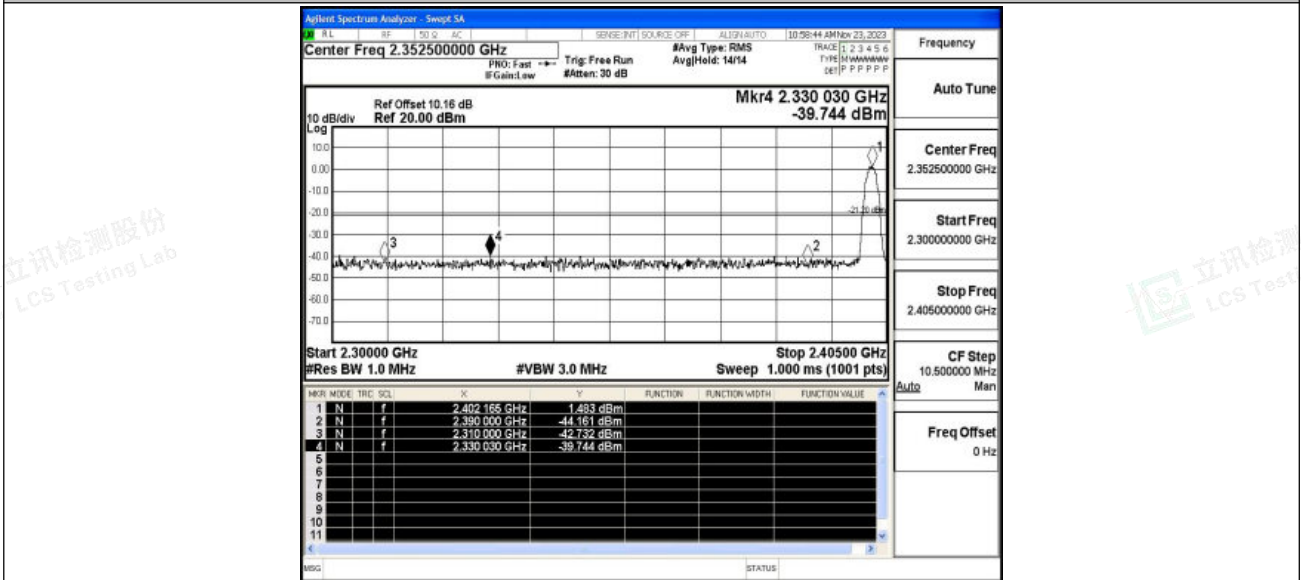


2DH5_Ant1_Low_2402_AV



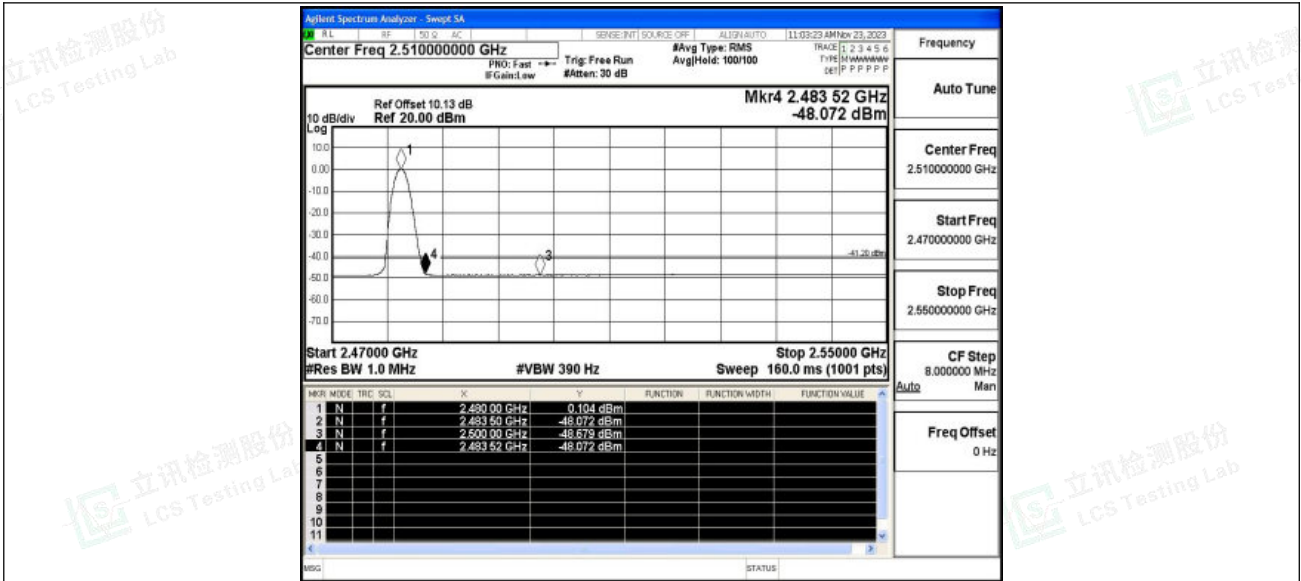


2DH5_Ant1_Low_2402_Peak

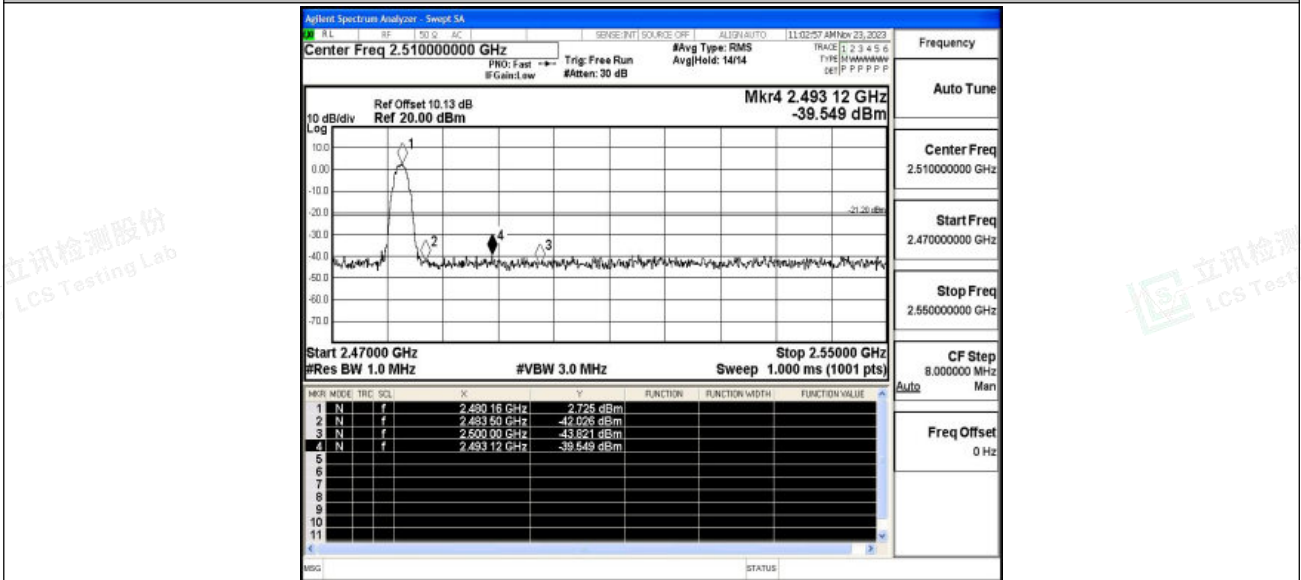


2DH5_Ant1_High_2480_AV



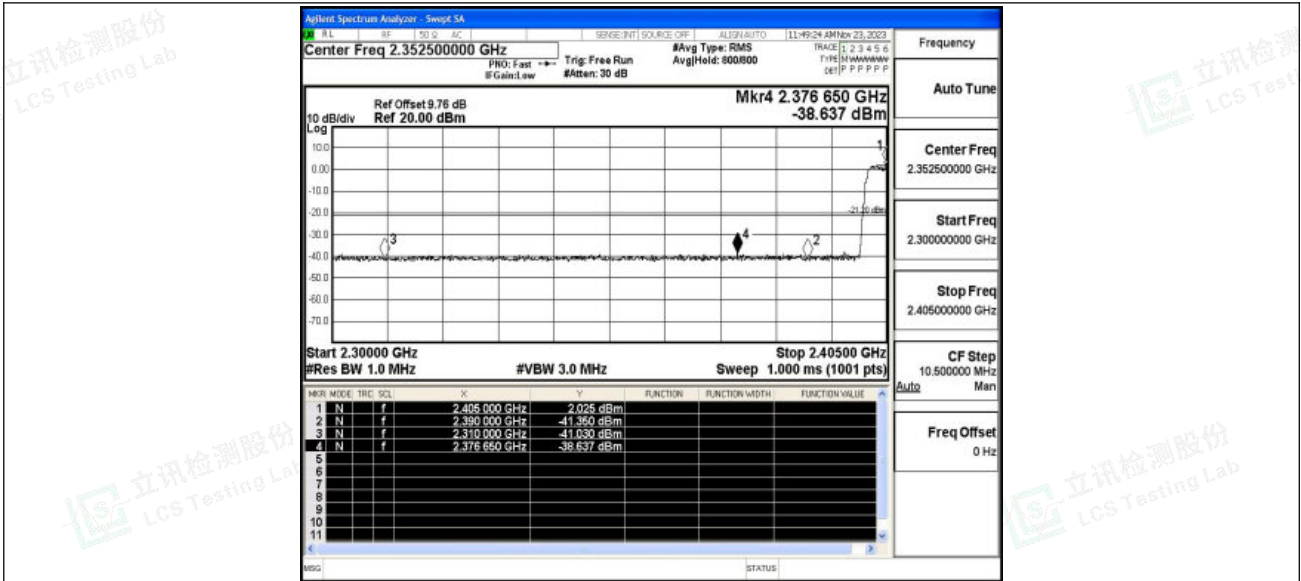


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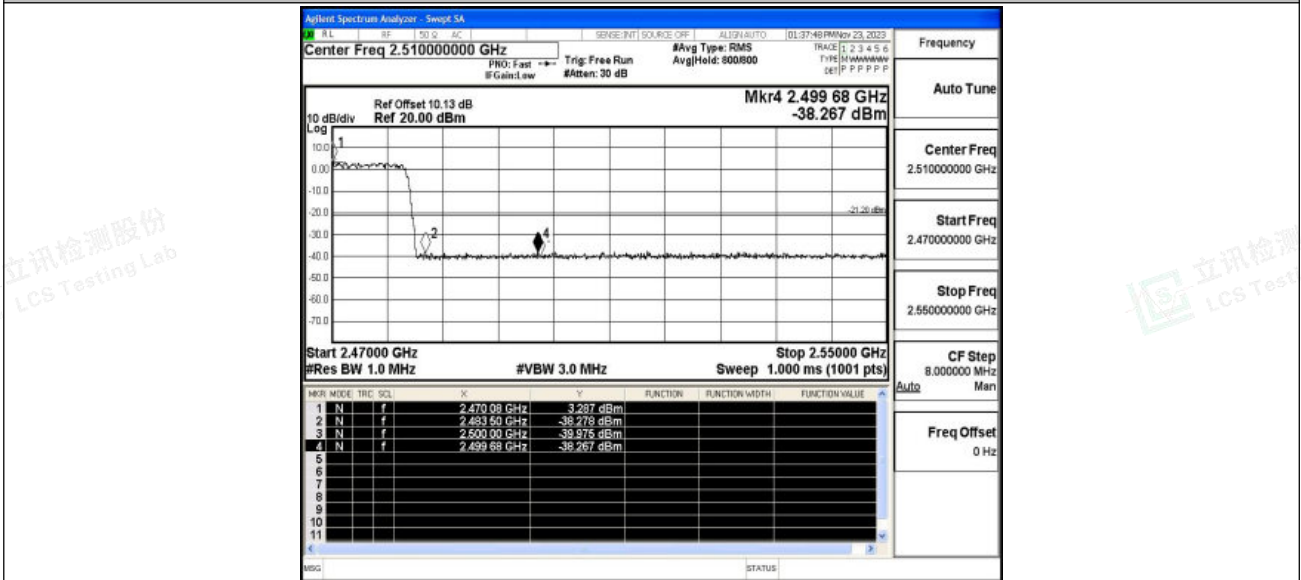


2DH5_Ant1_Low_Hop_2402_Peak



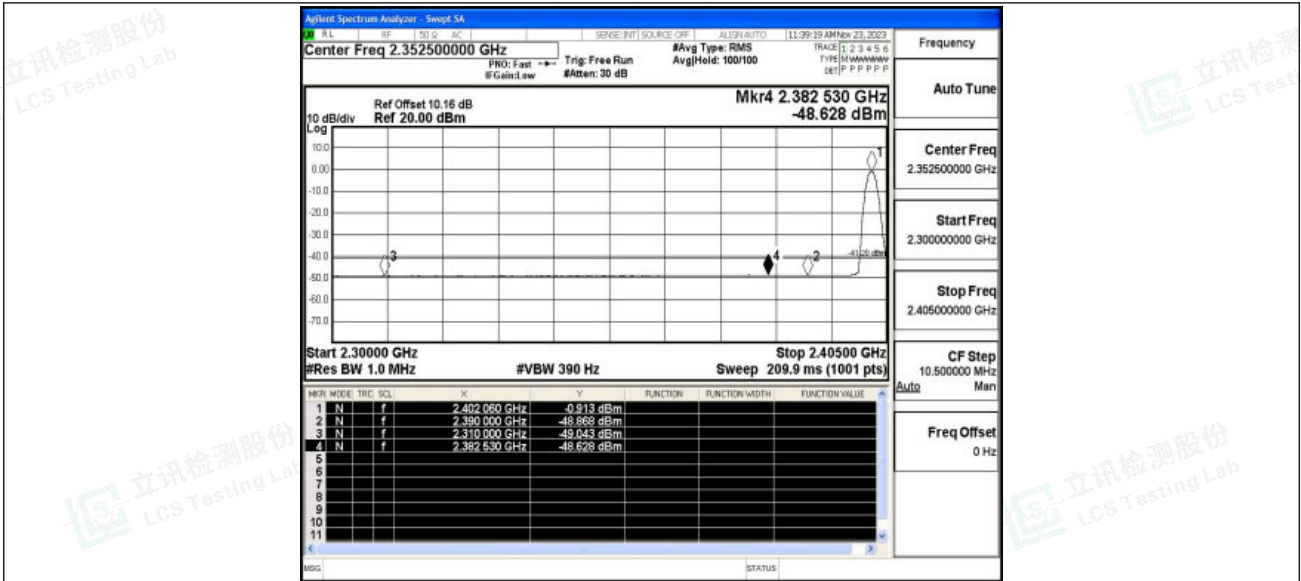


2DH5_Ant1_High_Hop_2480_Peak

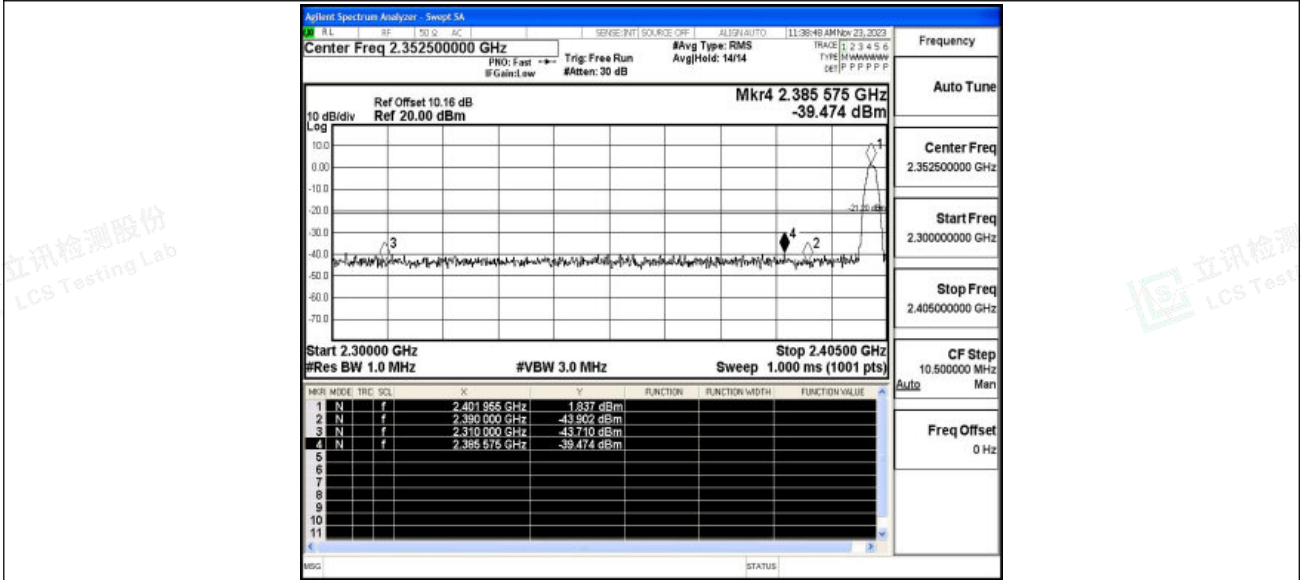


3DH5_Ant1_Low_2402_AV



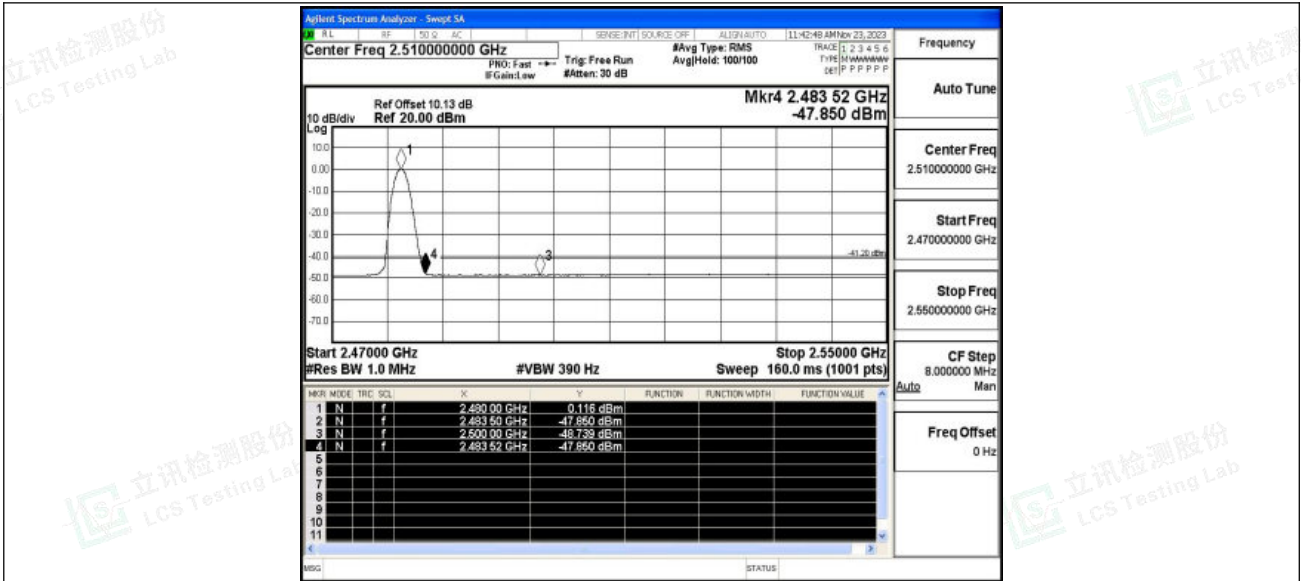


3DH5_Ant1_Low_2402_Peak

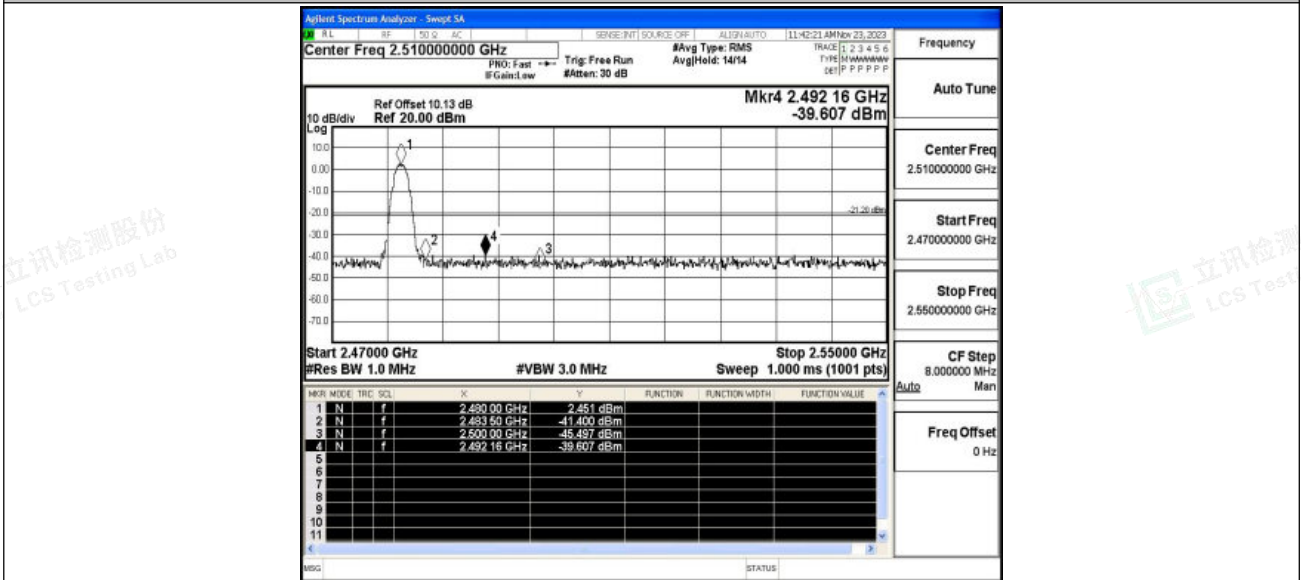


3DH5_Ant1_High_2480_AV



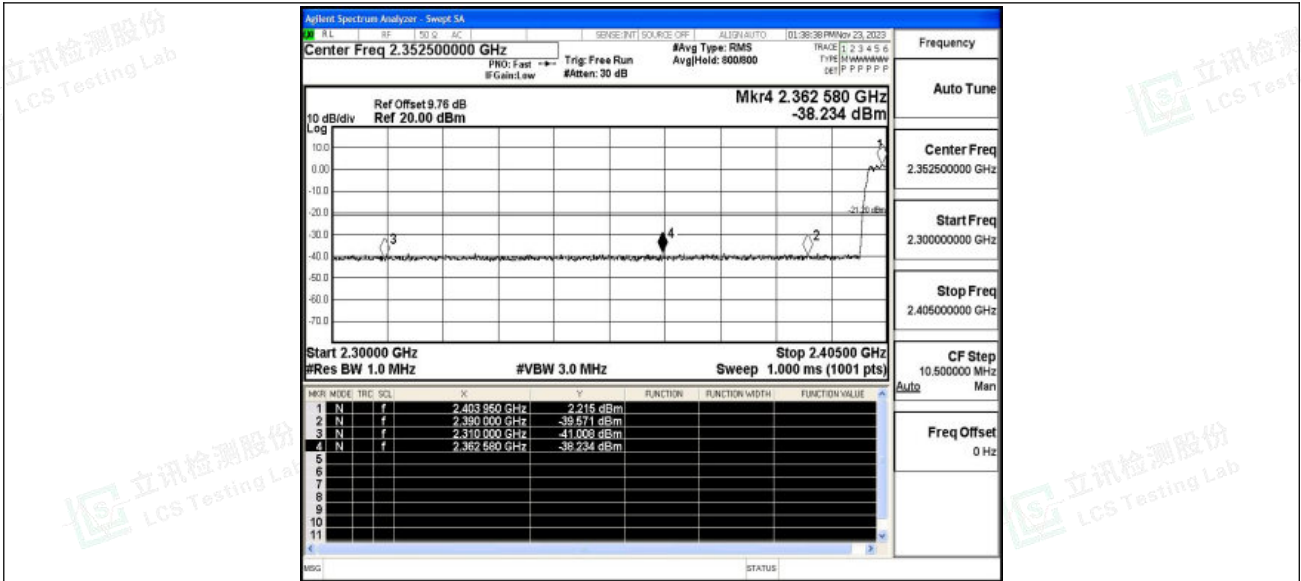


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

