



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Wireless Earphones

Test Model: A12

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	1.005	2401.481	2402.486	---	---
		2441	0.996	2440.499	2441.495	---	---
		2480	1.005	2479.490	2480.495	---	---
2DH5	Ant1	2402	1.296	2401.361	2402.657	---	---
		2441	1.293	2440.361	2441.654	---	---
		2480	1.287	2479.367	2480.654	---	---
3DH5	Ant1	2402	1.305	2401.349	2402.654	---	---
		2441	1.302	2440.352	2441.654	---	---
		2480	1.317	2479.343	2480.660	---	---



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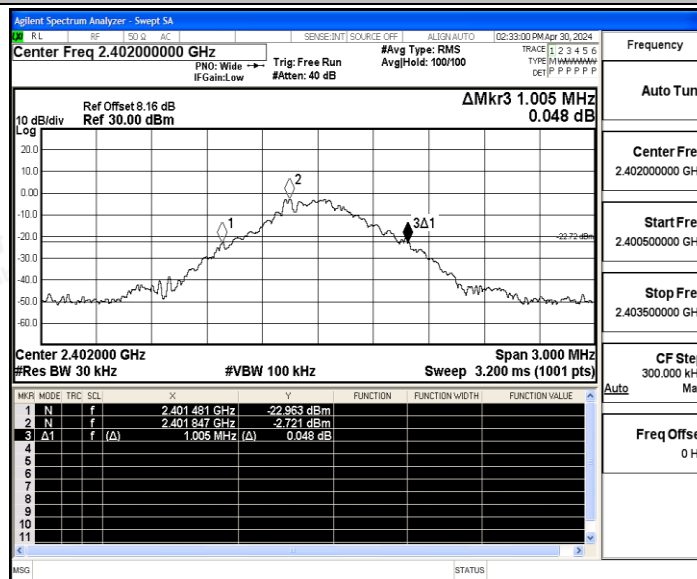
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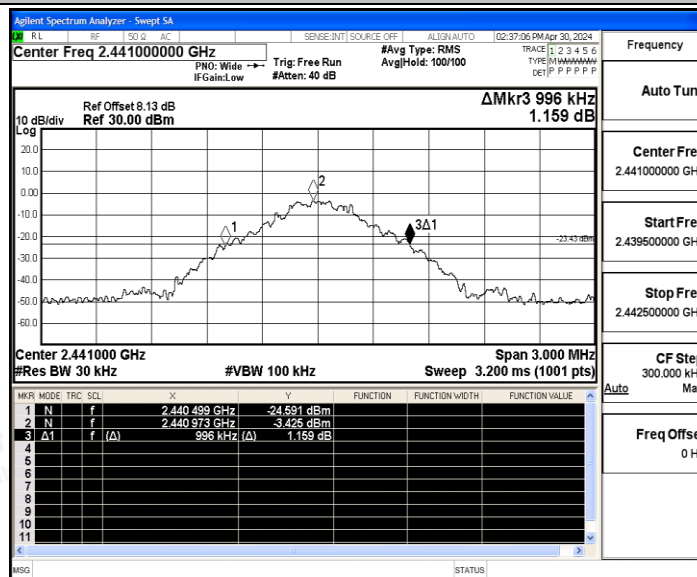


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

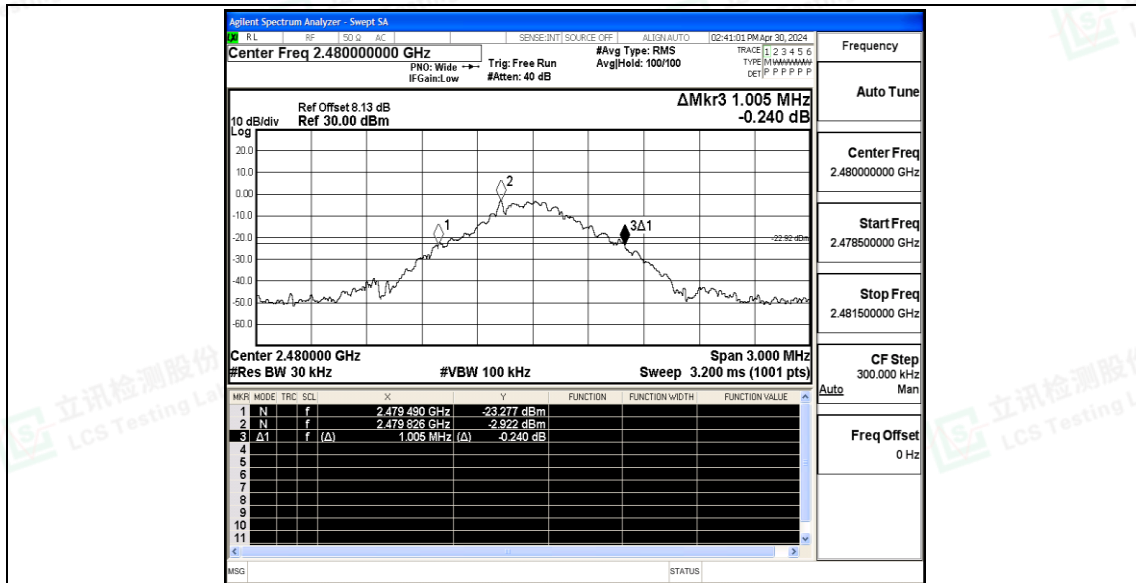


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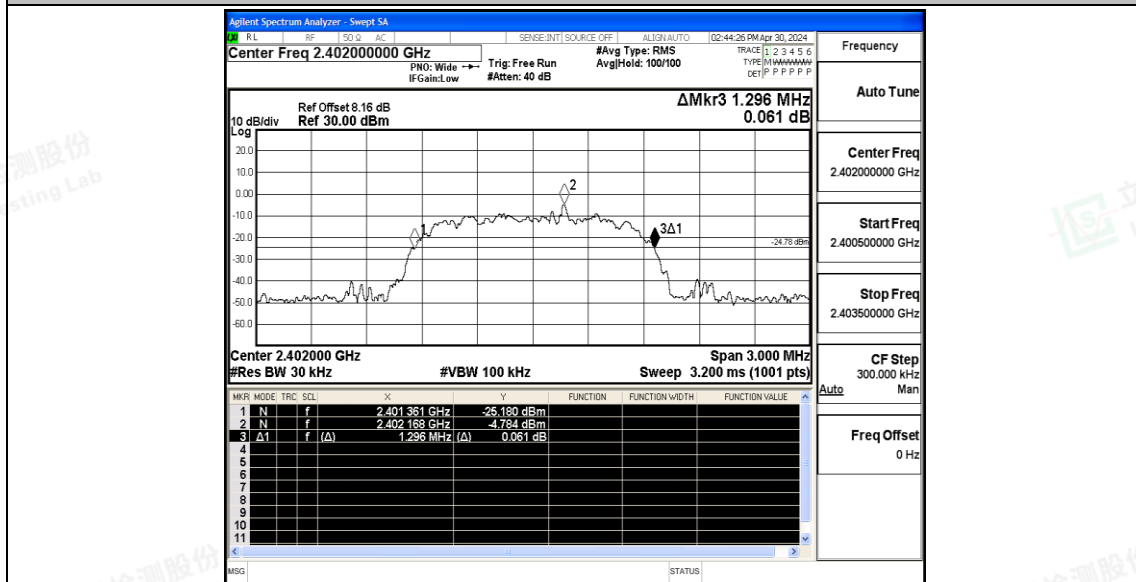
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2DH5_Ant1_2402



2DH5_Ant1_2441

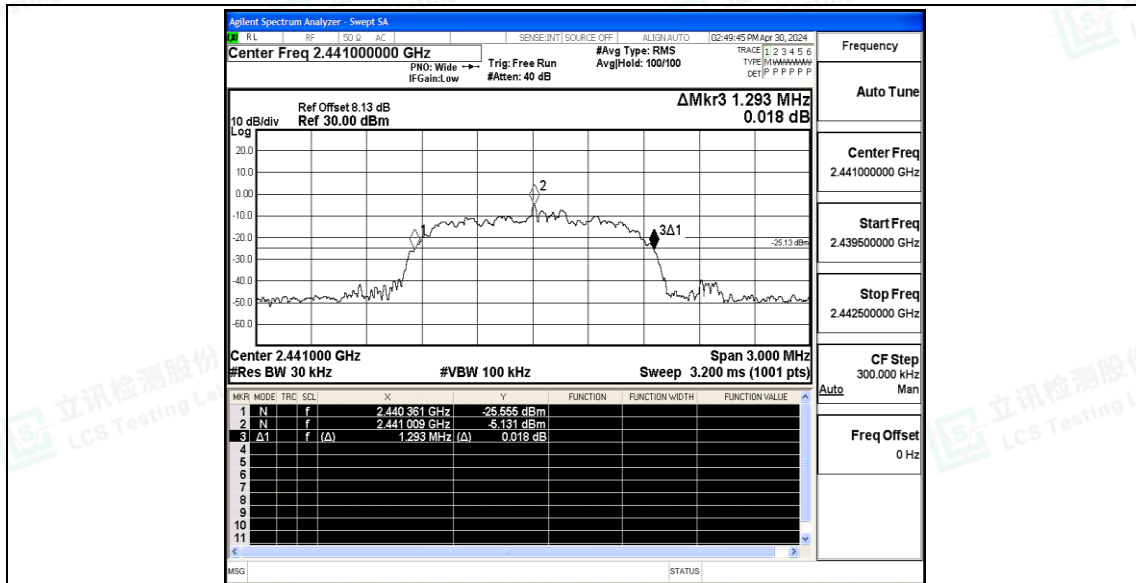


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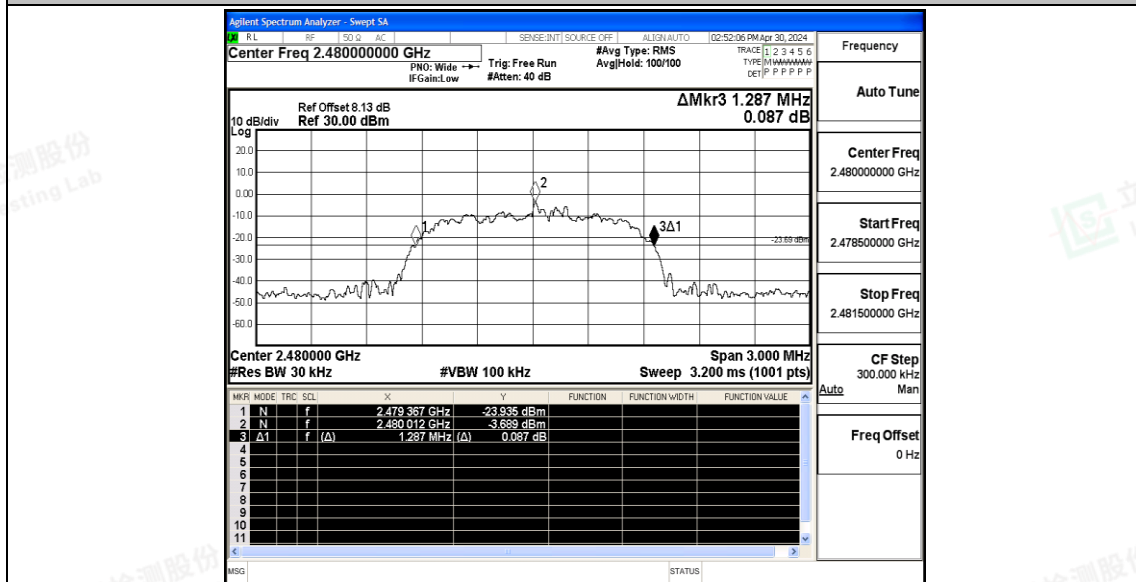
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2DH5_Ant1_2480



3DH5_Ant1_2402

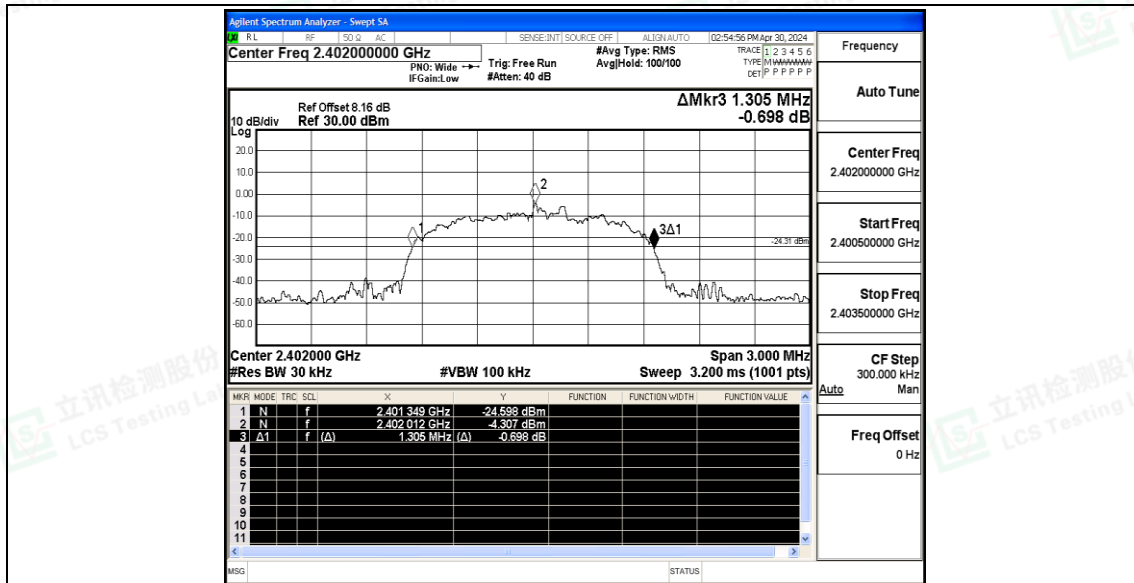


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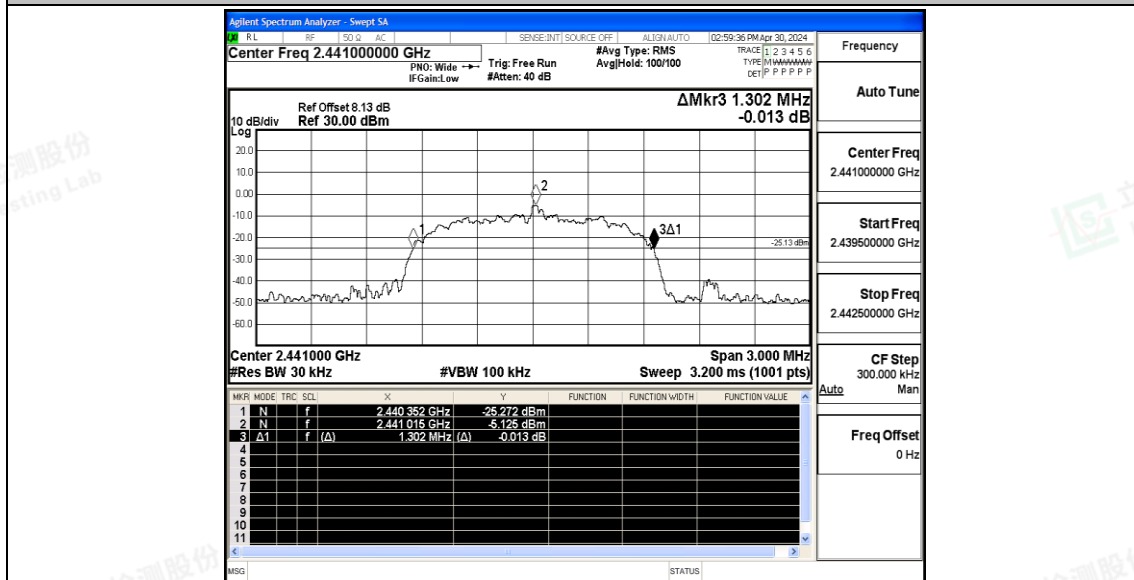
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3DH5_Ant1_2441



3DH5_Ant1_2480

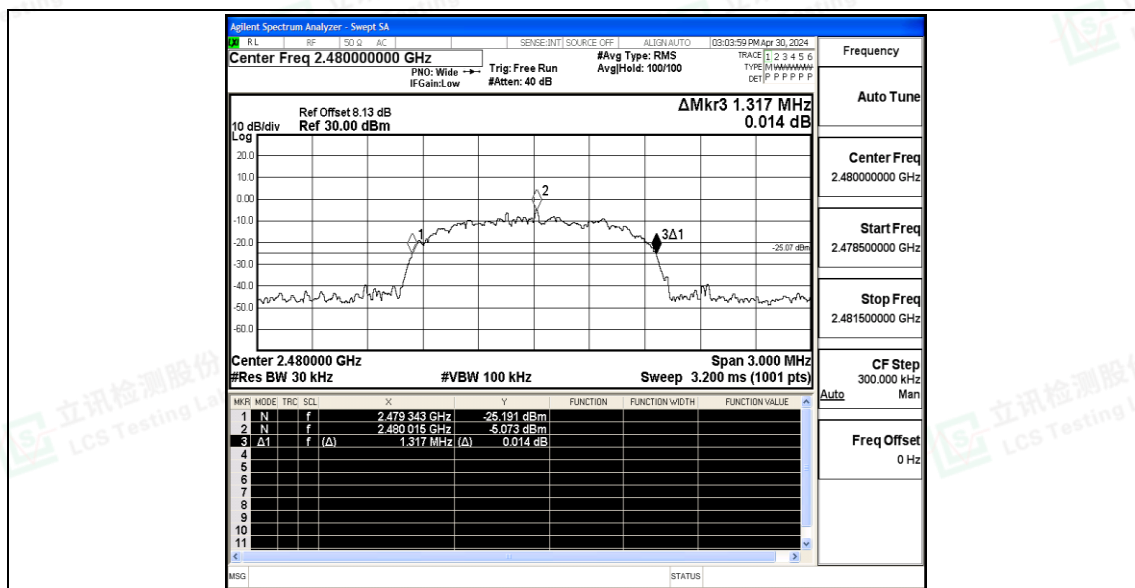


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A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.13	≤20.97	PASS
		2441	-0.22	≤20.97	PASS
		2480	-0.45	≤20.97	PASS
2DH5	Ant1	2402	-0.10	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	0.28	≤20.97	PASS
3DH5	Ant1	2402	0.22	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	0.30	≤20.97	PASS



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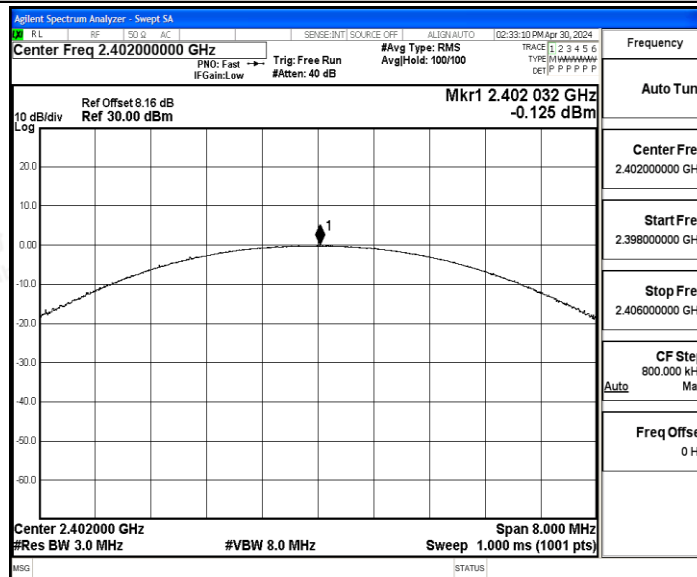
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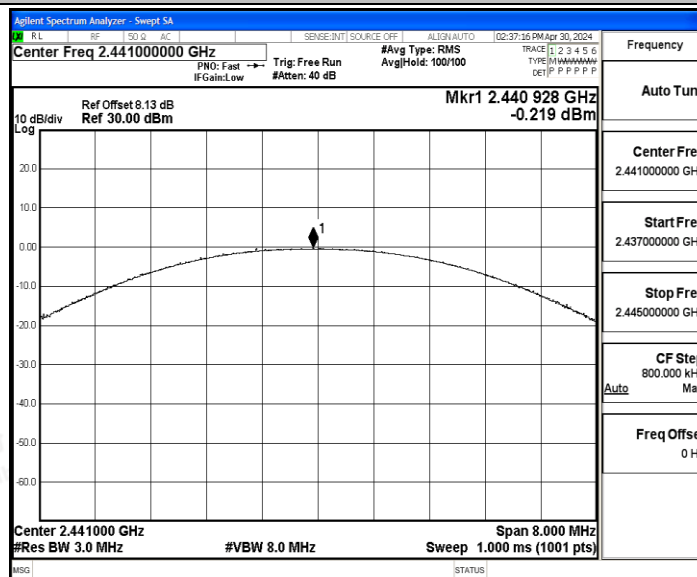


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

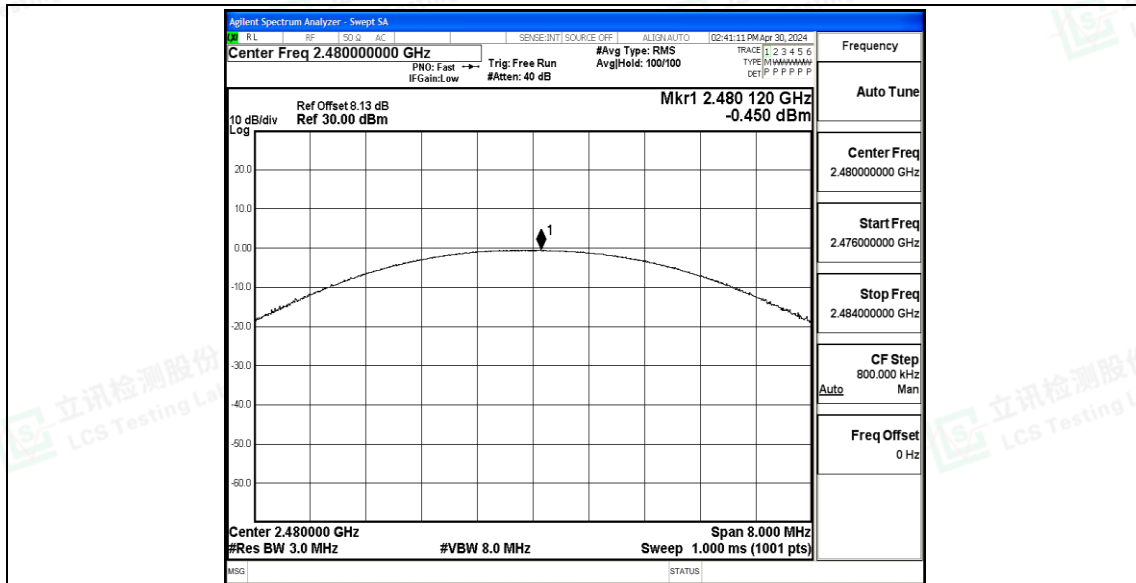


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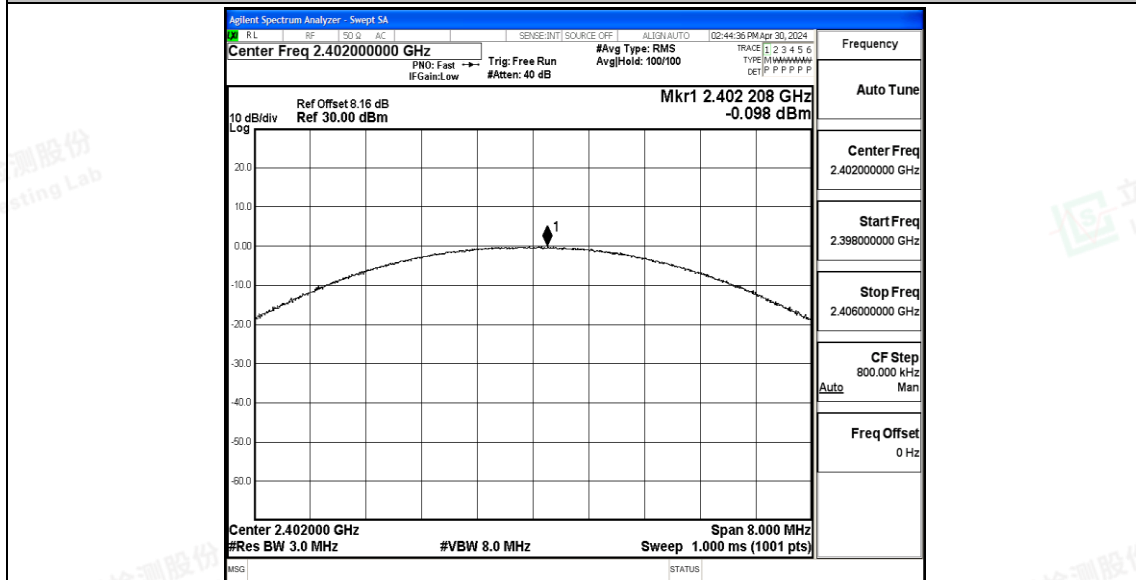
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2DH5_Ant1_2402



2DH5_Ant1_2441

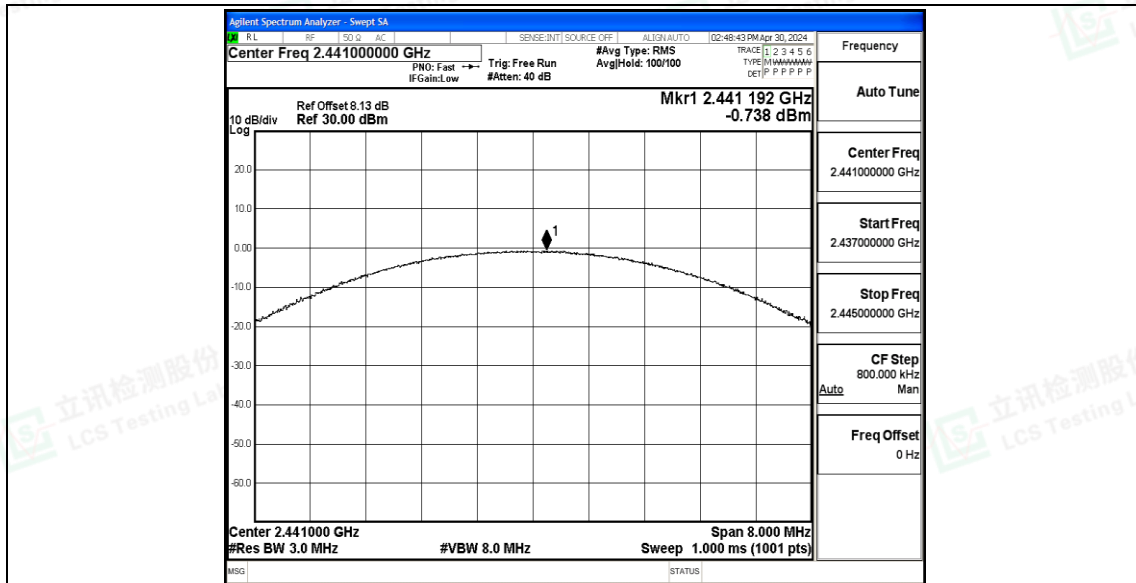


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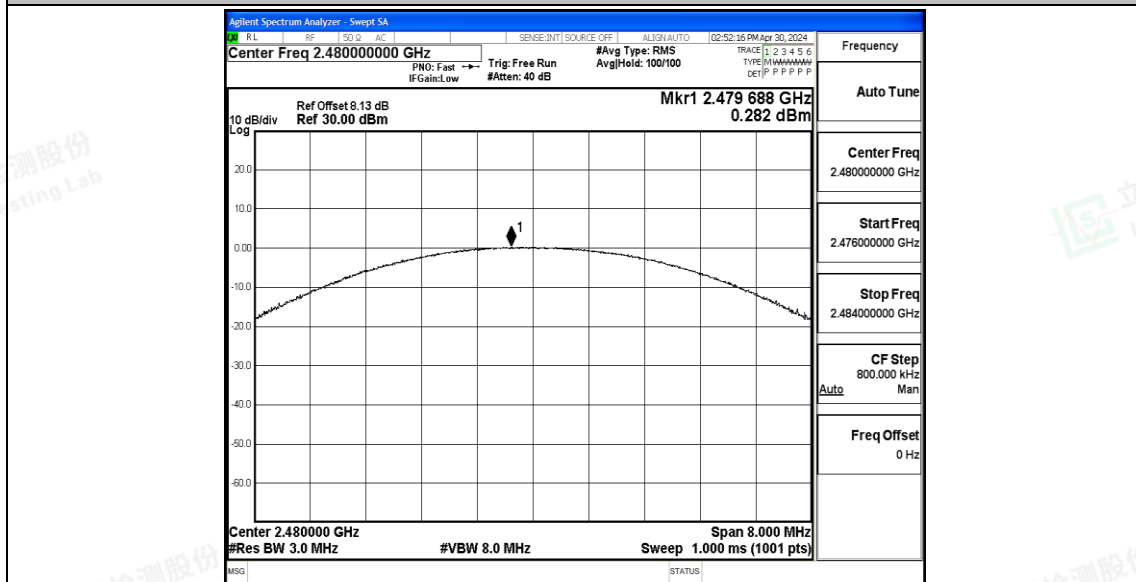
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2DH5_Ant1_2480



3DH5_Ant1_2402

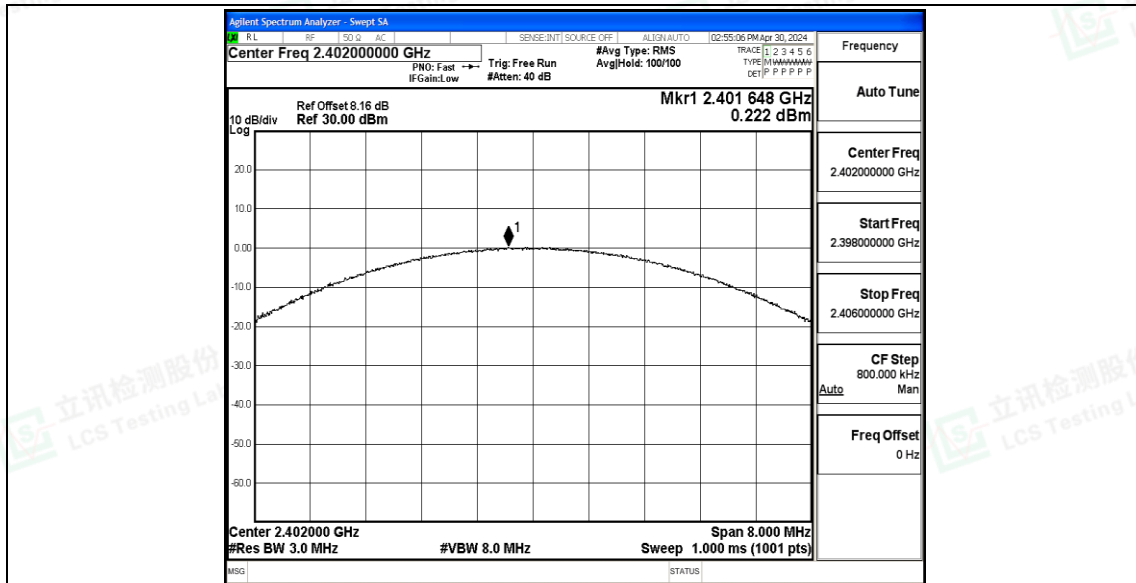


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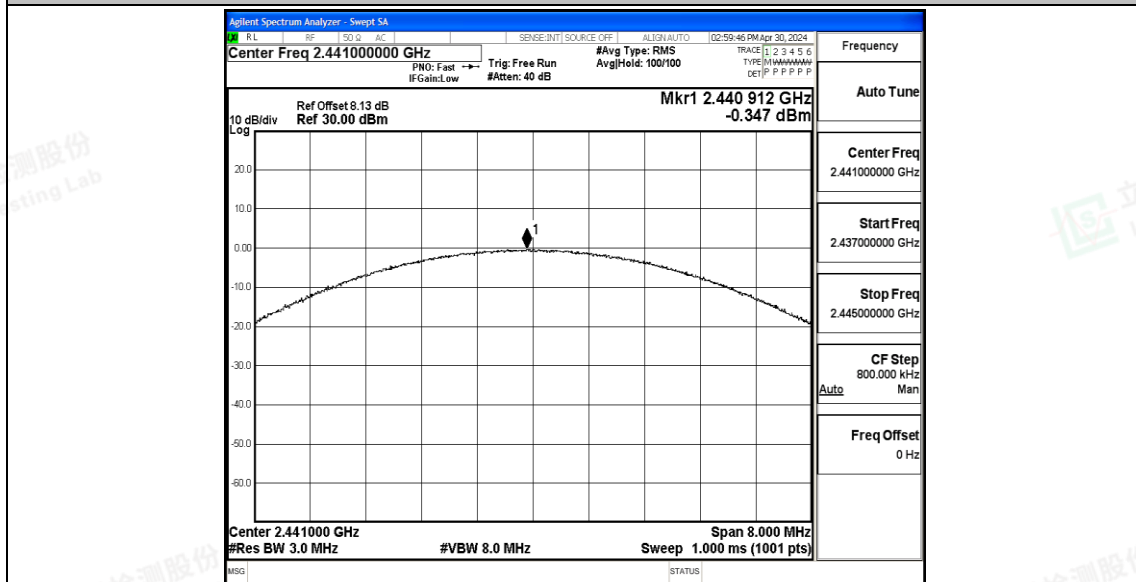
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3DH5_Ant1_2441



3DH5_Ant1_2480

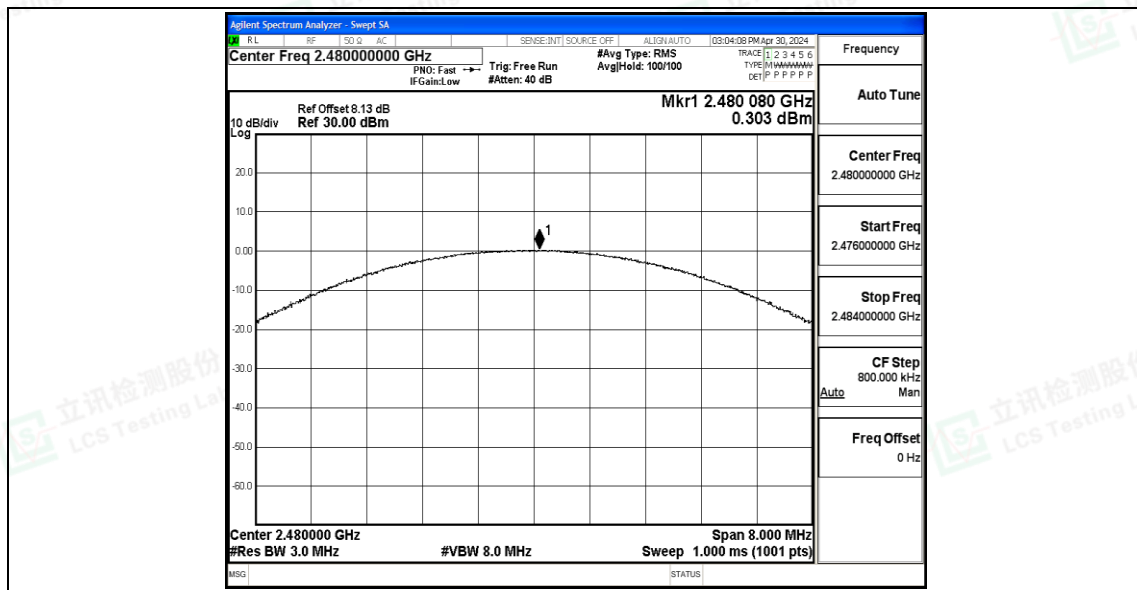


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.332	≥ 1.005	PASS
2DH5	Ant1	Hop	1.012	≥ 0.864	PASS
3DH5	Ant1	Hop	1.316	≥ 0.878	PASS

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Test Graphs

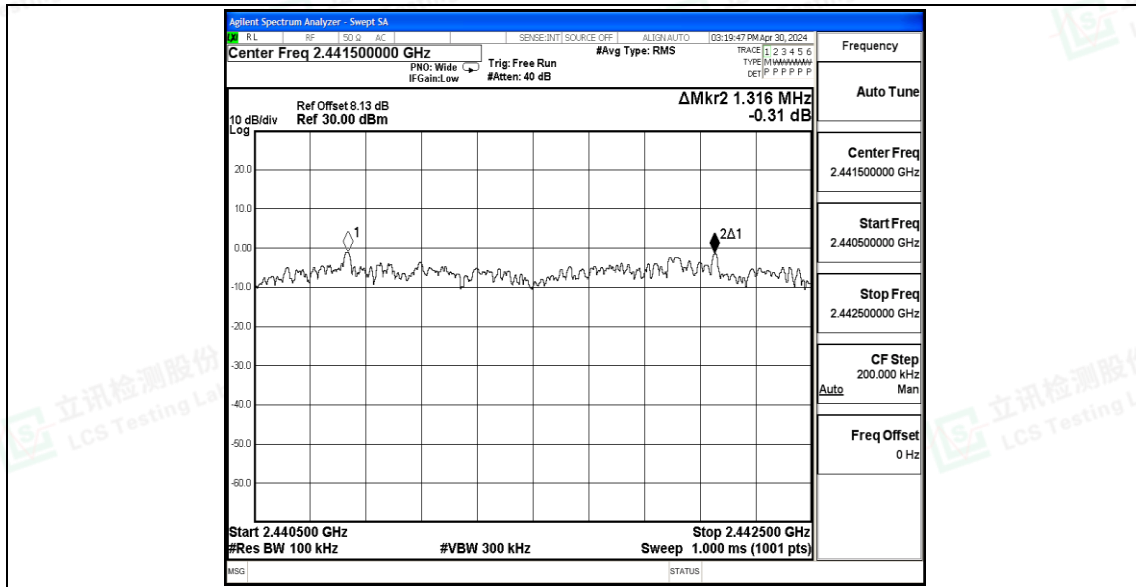


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A.4 Time of occupancy

Test Result

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

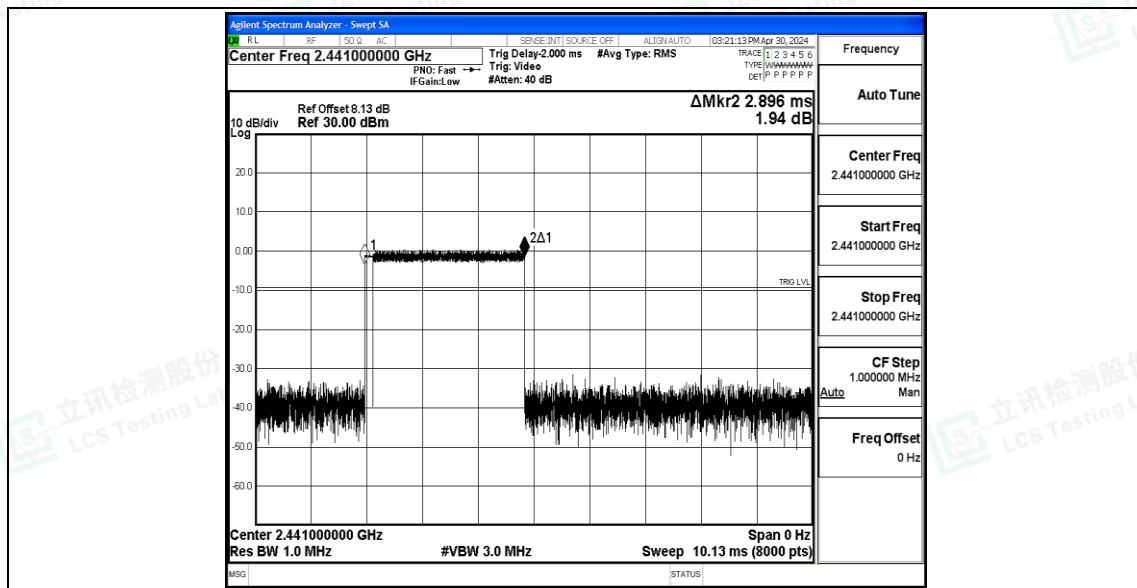


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A.5 Number of hopping channels

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



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Test Graphs

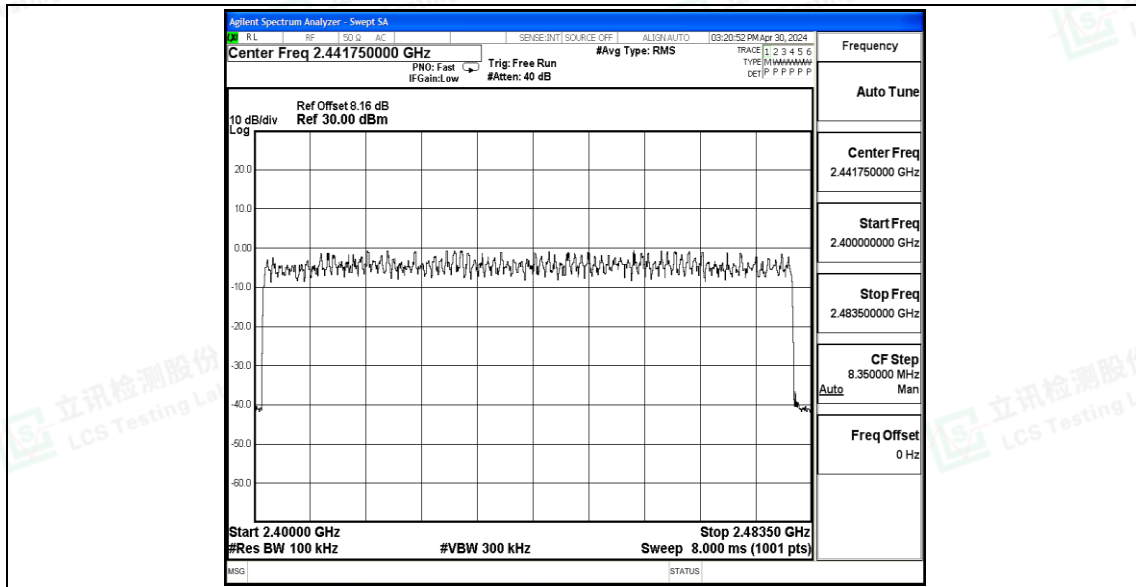


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.78	-51.11	≤ -20.78	PASS
		High	2480	-1.05	-50.47	≤ -21.05	PASS
		Low	Hop_2402	-2.79	-49.43	≤ -22.79	PASS
		High	Hop_2480	-1.72	-49.39	≤ -21.72	PASS
2DH5	Ant1	Low	2402	-2.26	-50.83	≤ -22.26	PASS
		High	2480	-1.95	-50.01	≤ -21.95	PASS
		Low	Hop_2402	-3.54	-48.81	≤ -23.54	PASS
		High	Hop_2480	-1.66	-49	≤ -21.66	PASS
3DH5	Ant1	Low	2402	-2.07	-51.21	≤ -22.07	PASS
		High	2480	-2.12	-50.37	≤ -22.12	PASS
		Low	Hop_2402	-3.36	-49.94	≤ -23.36	PASS
		High	Hop_2480	-1.65	-49.43	≤ -21.65	PASS



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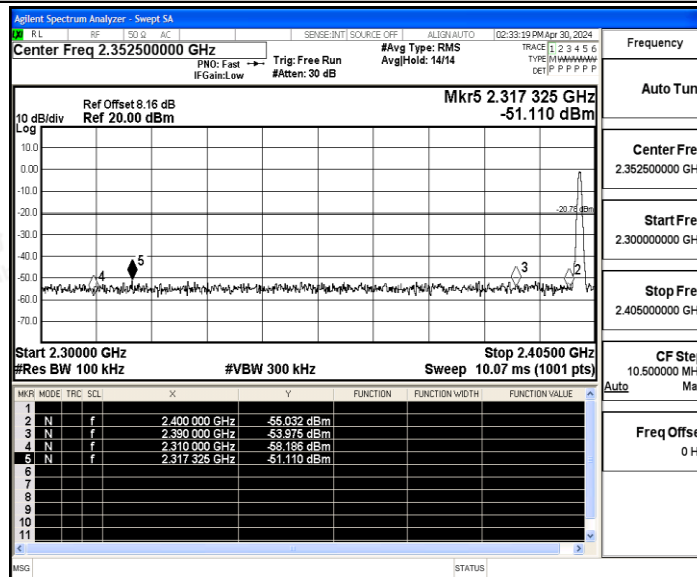
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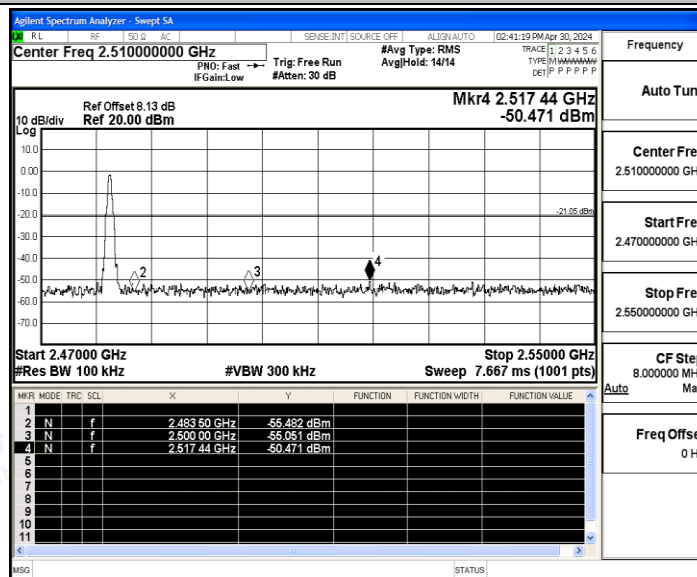


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

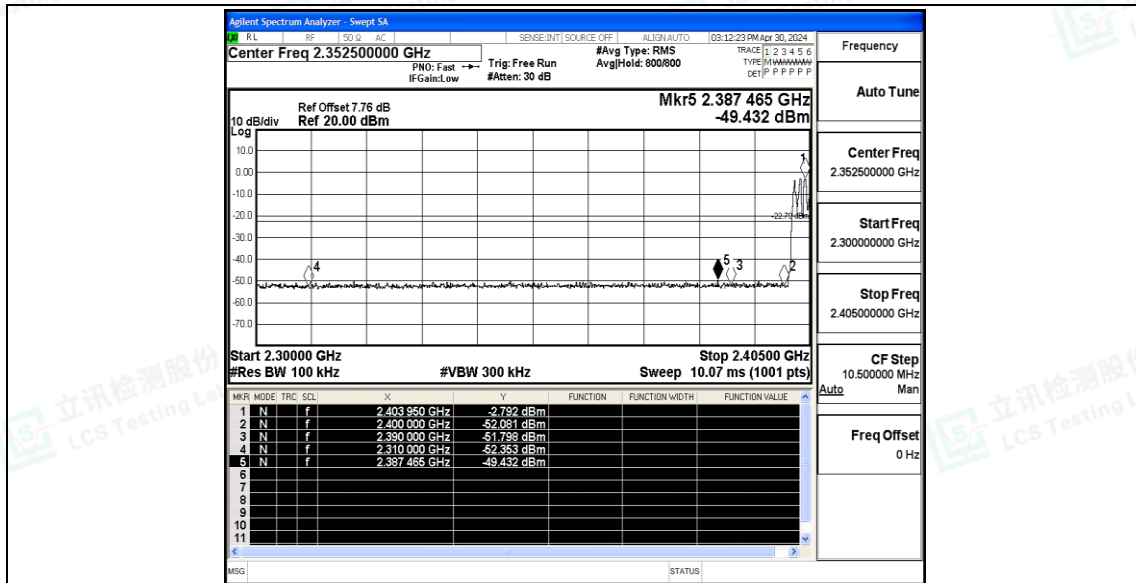


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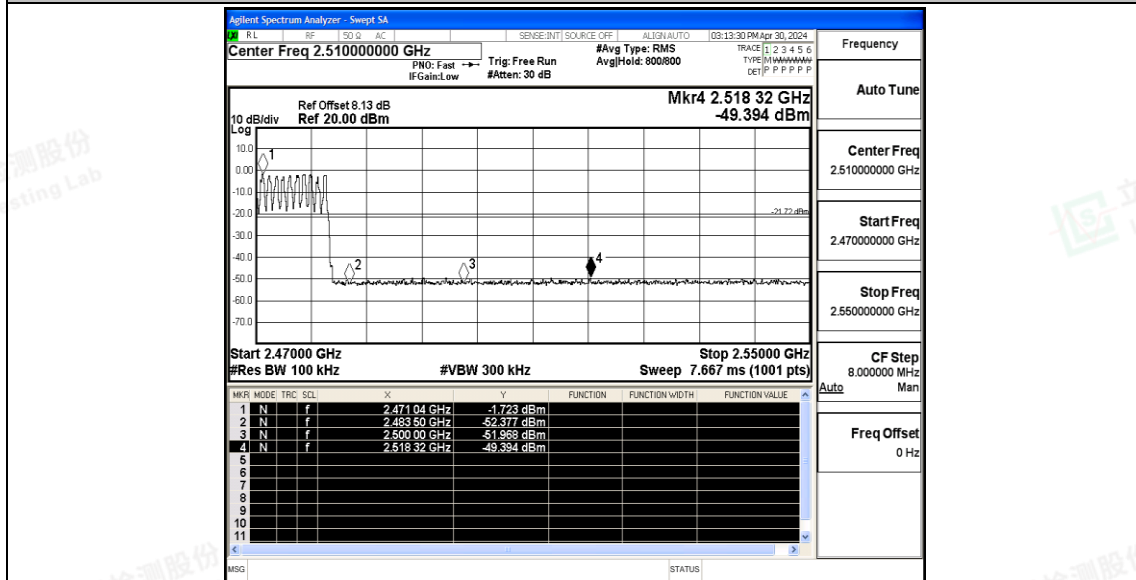
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

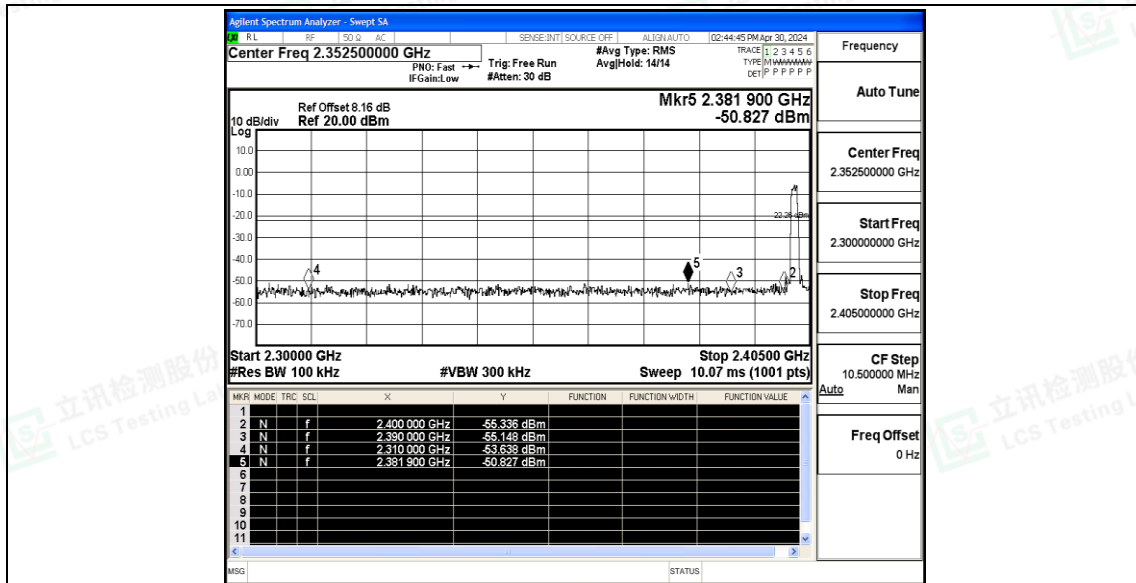


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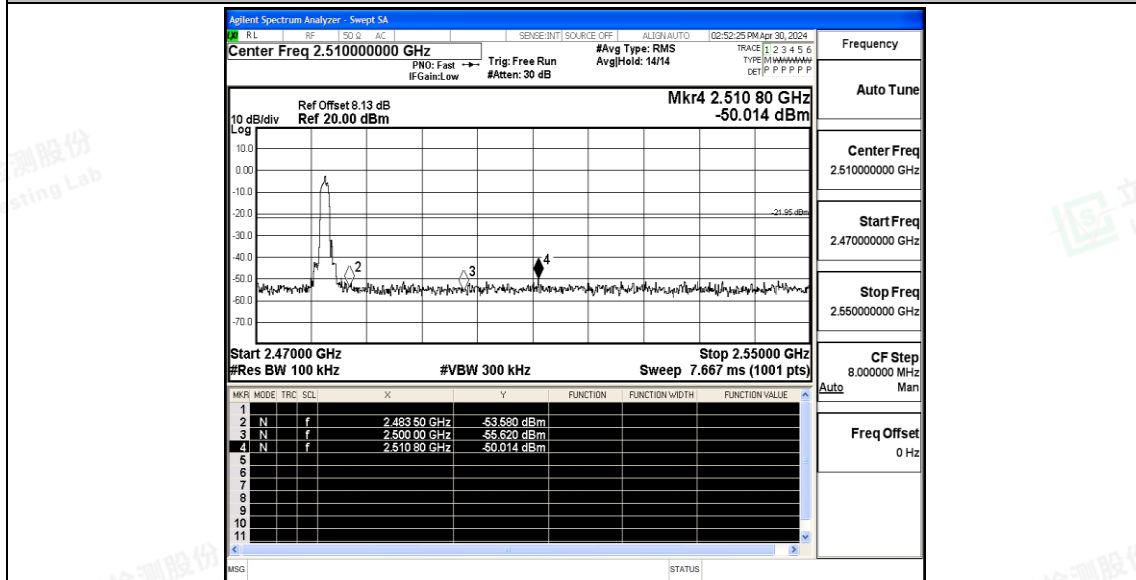
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

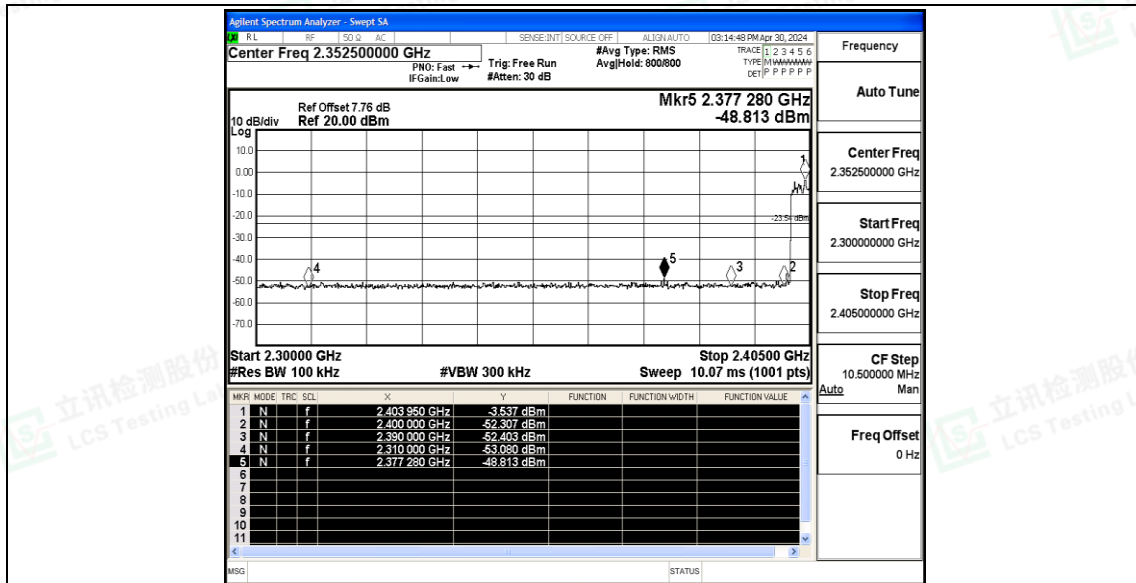


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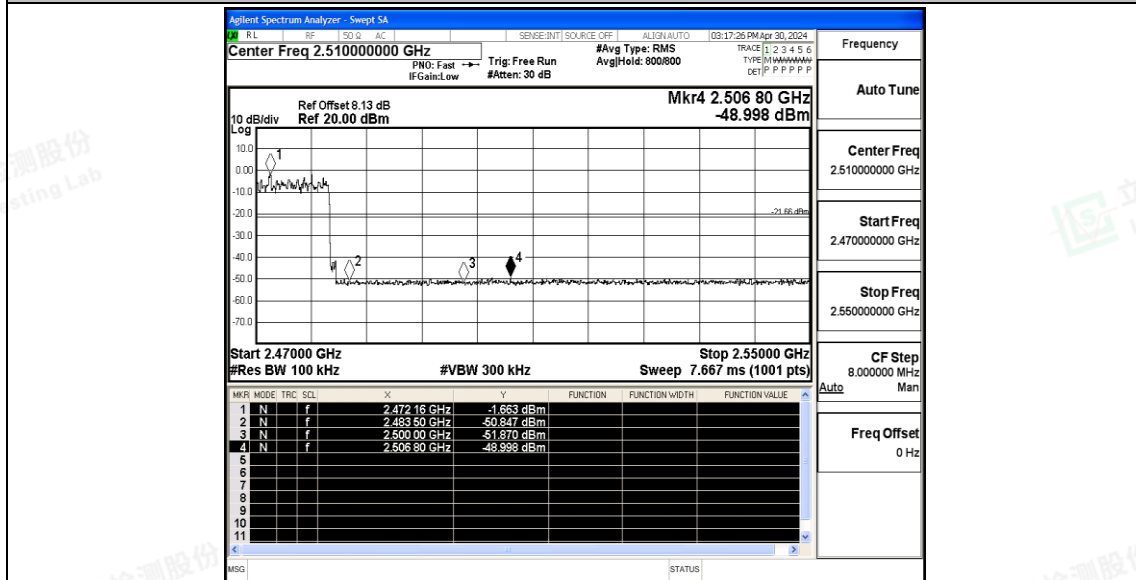
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

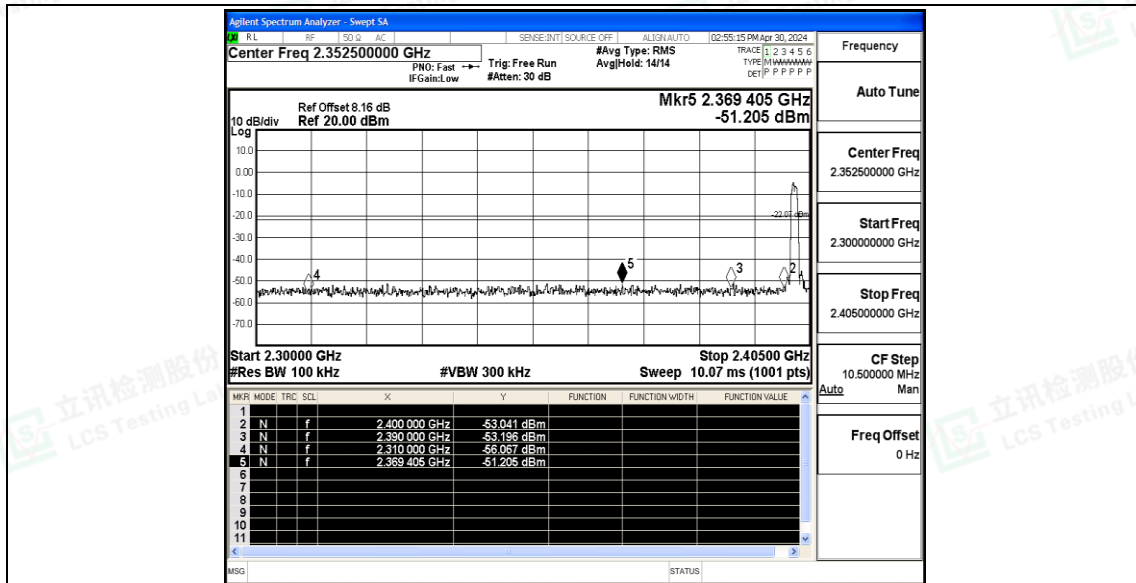


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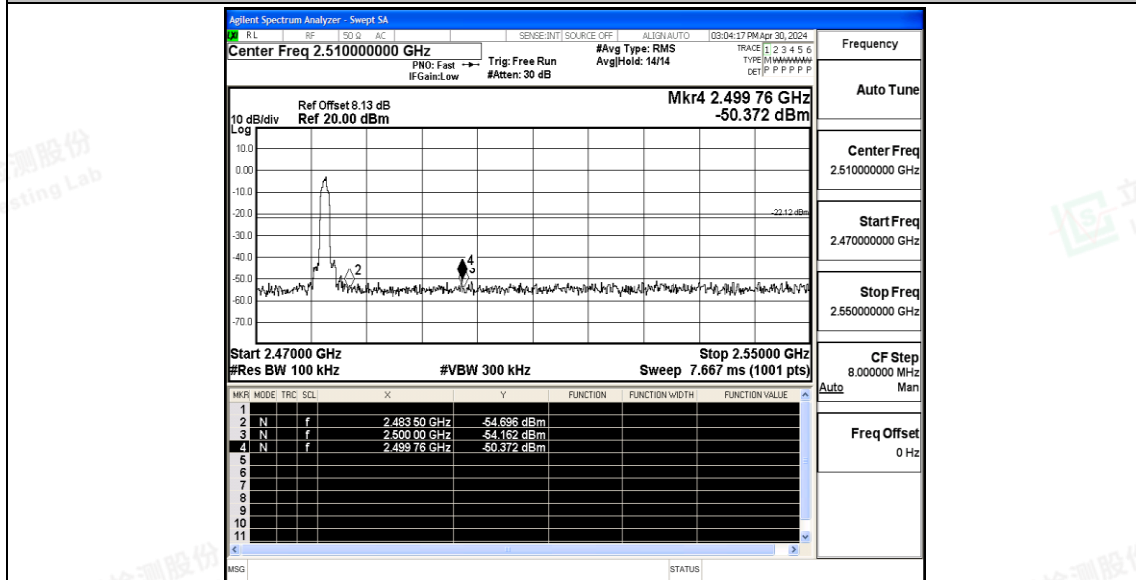
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

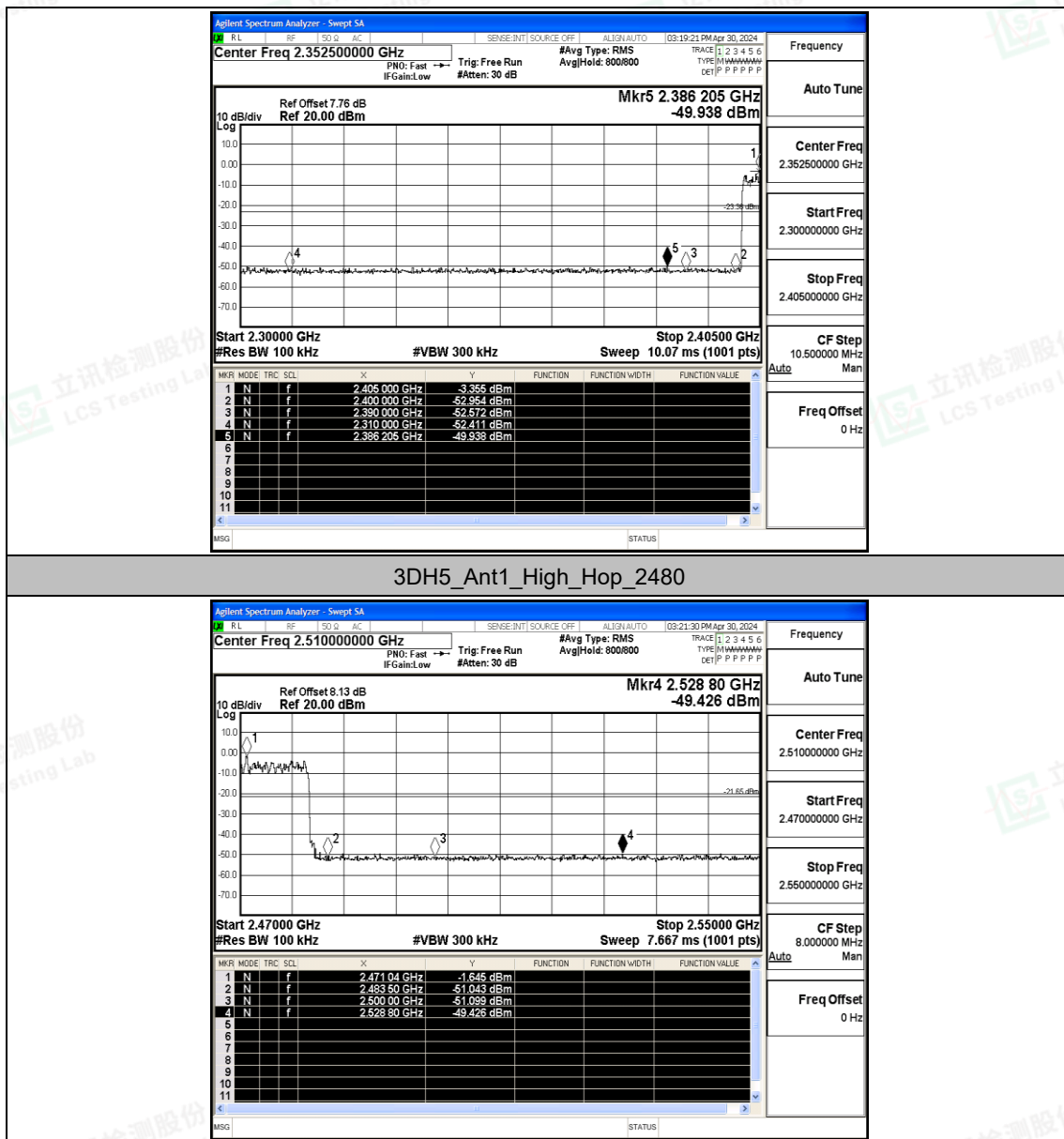


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-0.78	-60.86	≤-20.78	PASS
			1000~26500	-0.78	-49.25	≤-20.78	PASS
		2441	30~1000	-1.50	-61.44	≤-21.5	PASS
			1000~26500	-1.50	-48.61	≤-21.5	PASS
		2480	30~1000	-1.05	-61.35	≤-21.05	PASS
			1000~26500	-1.05	-48.74	≤-21.05	PASS
2DH5	Ant1	2402	30~1000	-2.26	-61.68	≤-22.26	PASS
			1000~26500	-2.26	-49.65	≤-22.26	PASS
		2441	30~1000	-3.25	-61.42	≤-23.25	PASS
			1000~26500	-3.25	-48.28	≤-23.25	PASS
		2480	30~1000	-1.95	-60.84	≤-21.95	PASS
			1000~26500	-1.95	-48.22	≤-21.95	PASS
3DH5	Ant1	2402	30~1000	-2.07	-60.6	≤-22.07	PASS
			1000~26500	-2.07	-49.35	≤-22.07	PASS
		2441	30~1000	-2.82	-61.83	≤-22.82	PASS
			1000~26500	-2.82	-48.78	≤-22.82	PASS
		2480	30~1000	-2.12	-61.77	≤-22.12	PASS
			1000~26500	-2.12	-49.03	≤-22.12	PASS



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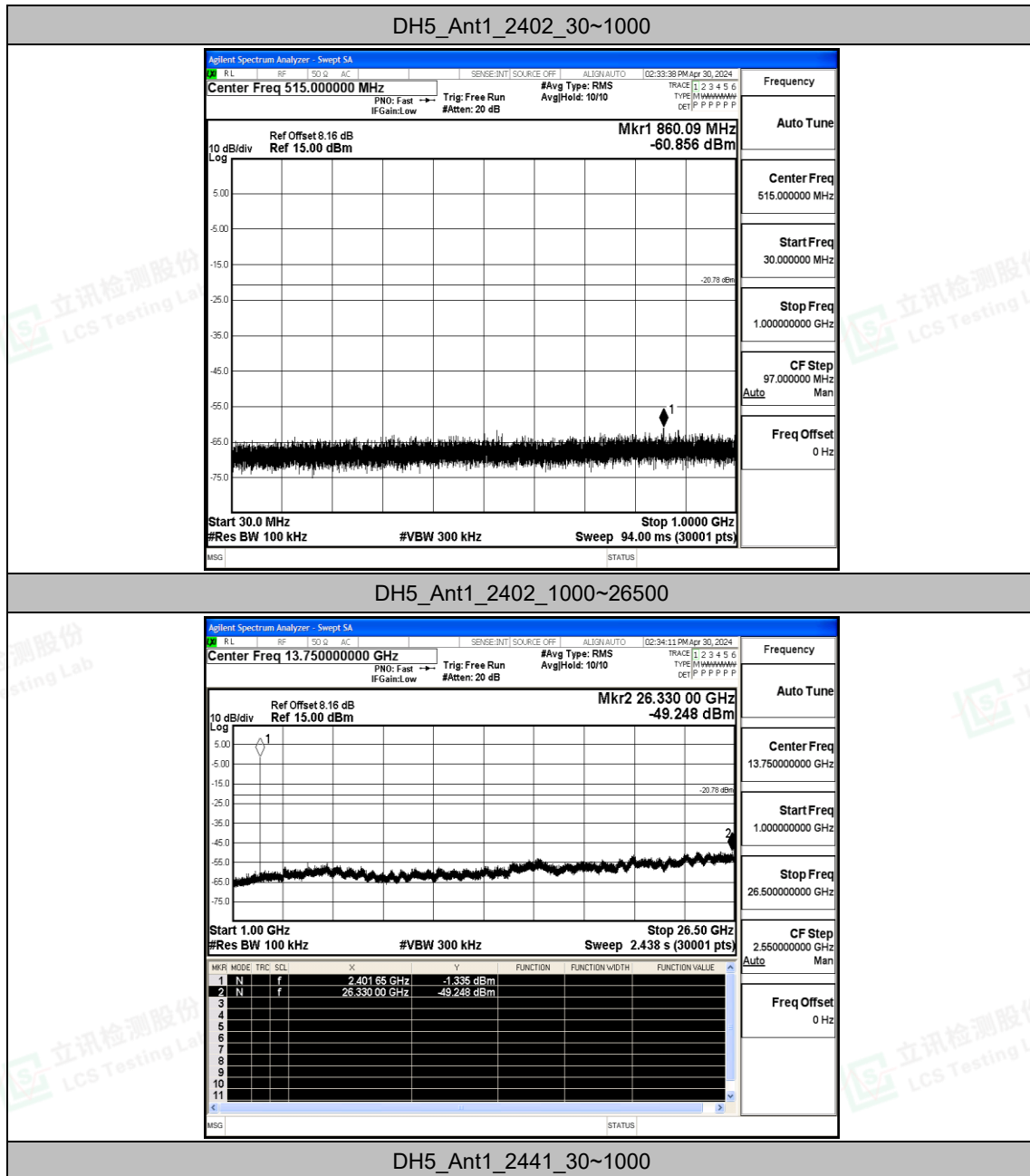
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Test Graphs

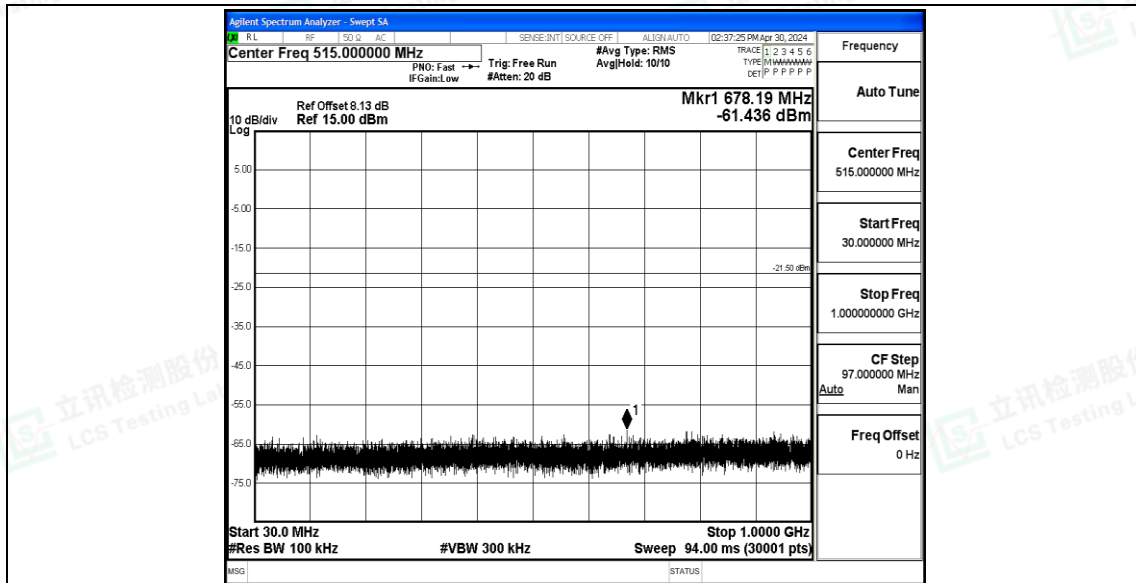


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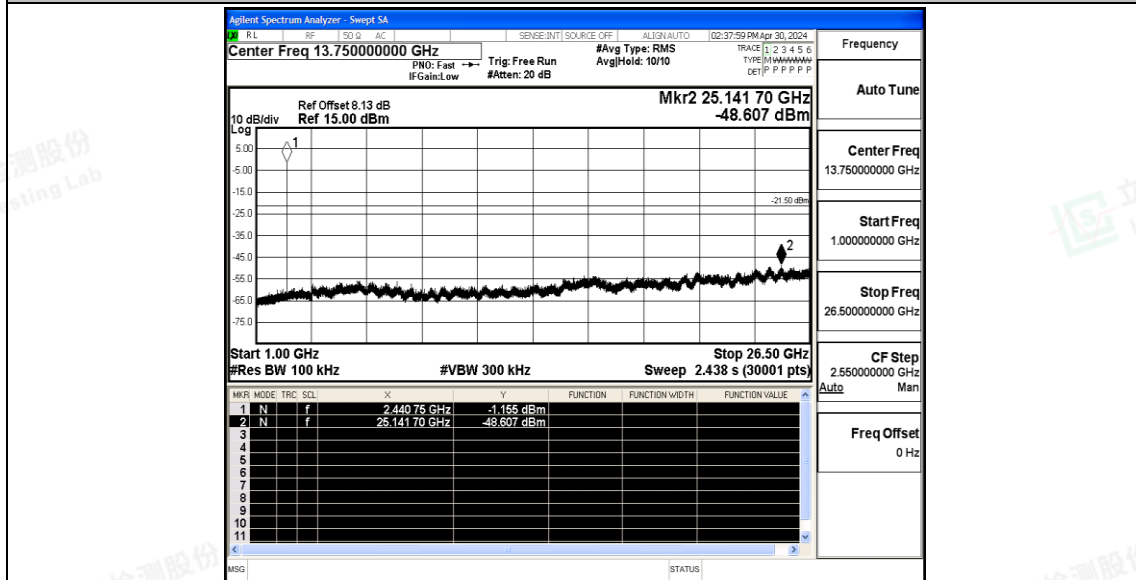
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

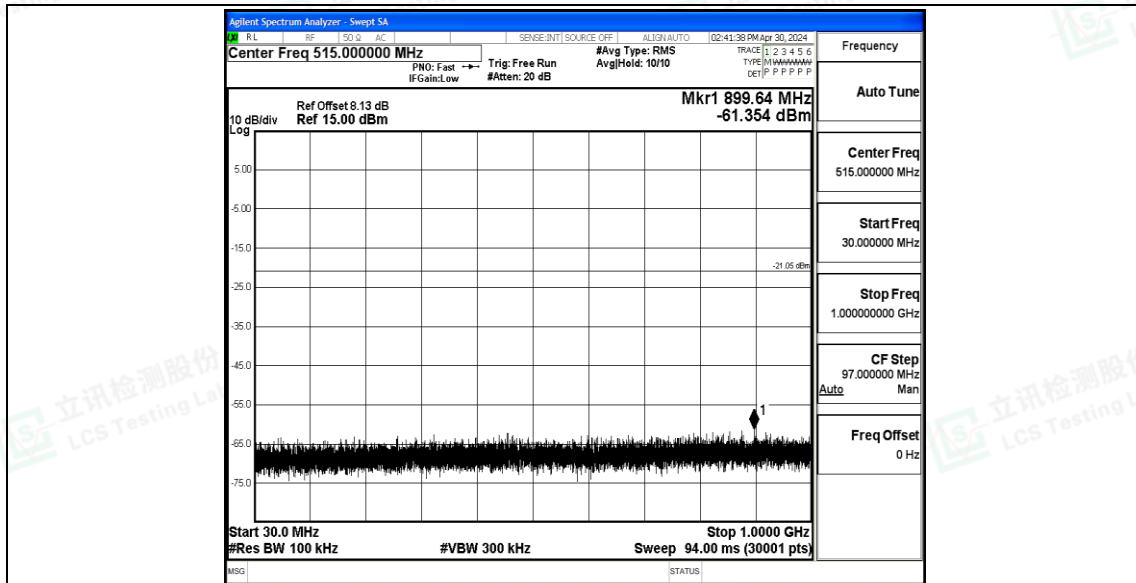


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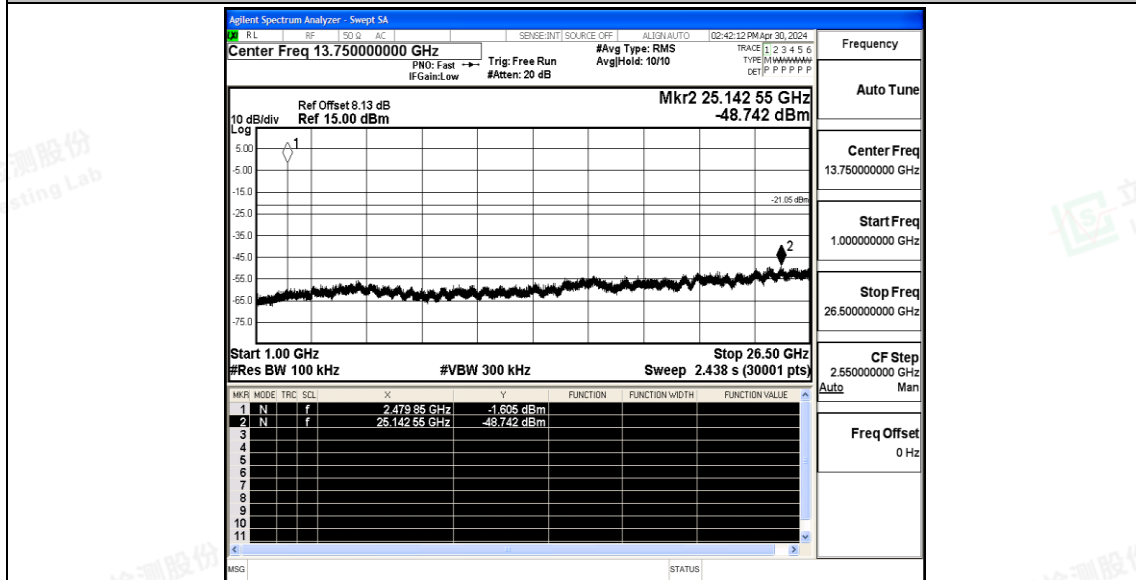
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

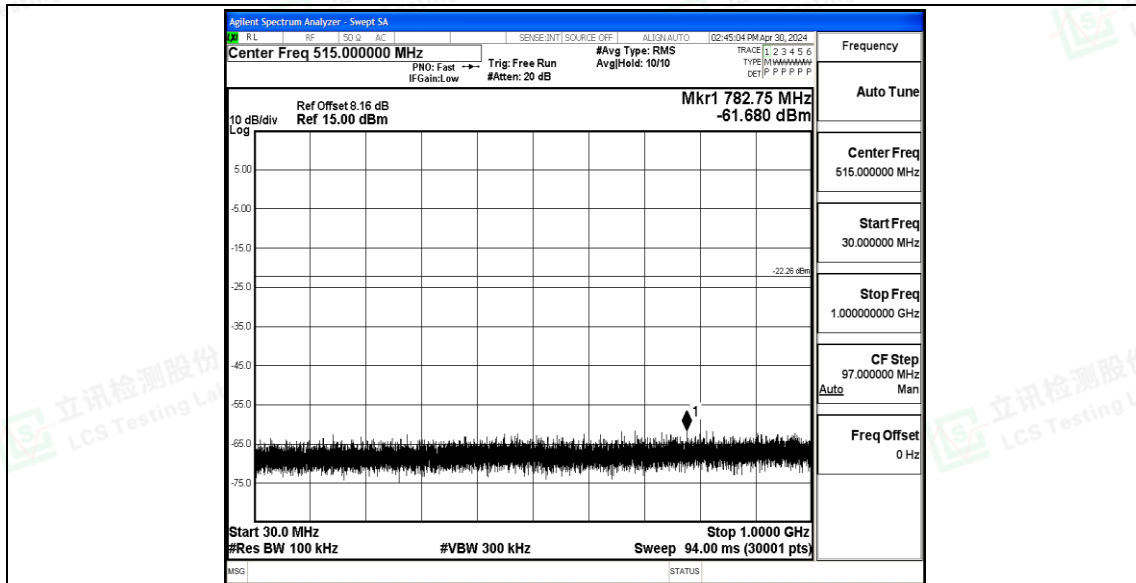


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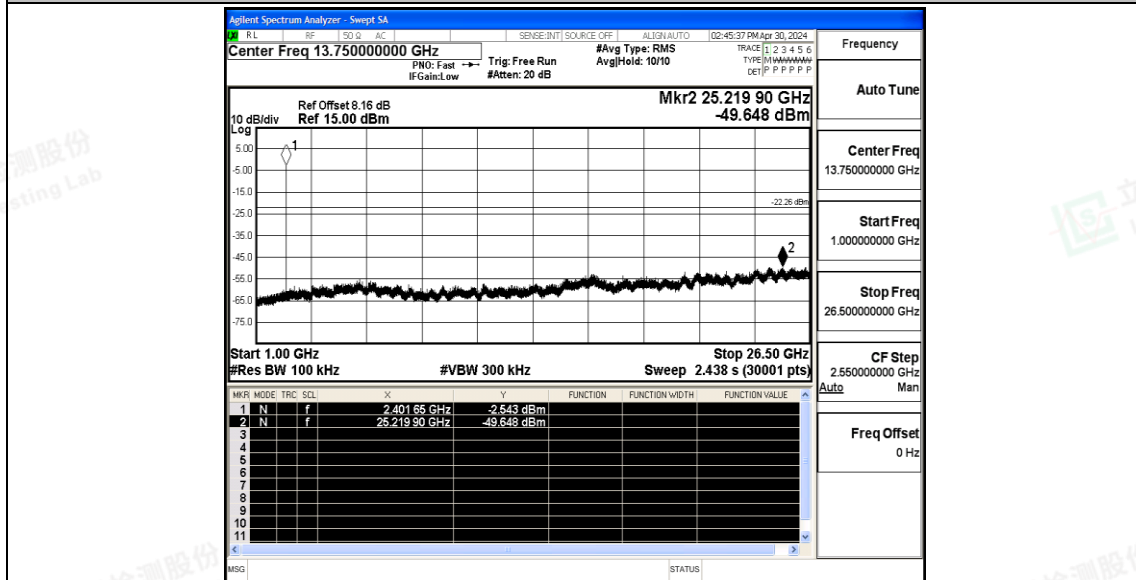
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_30~1000

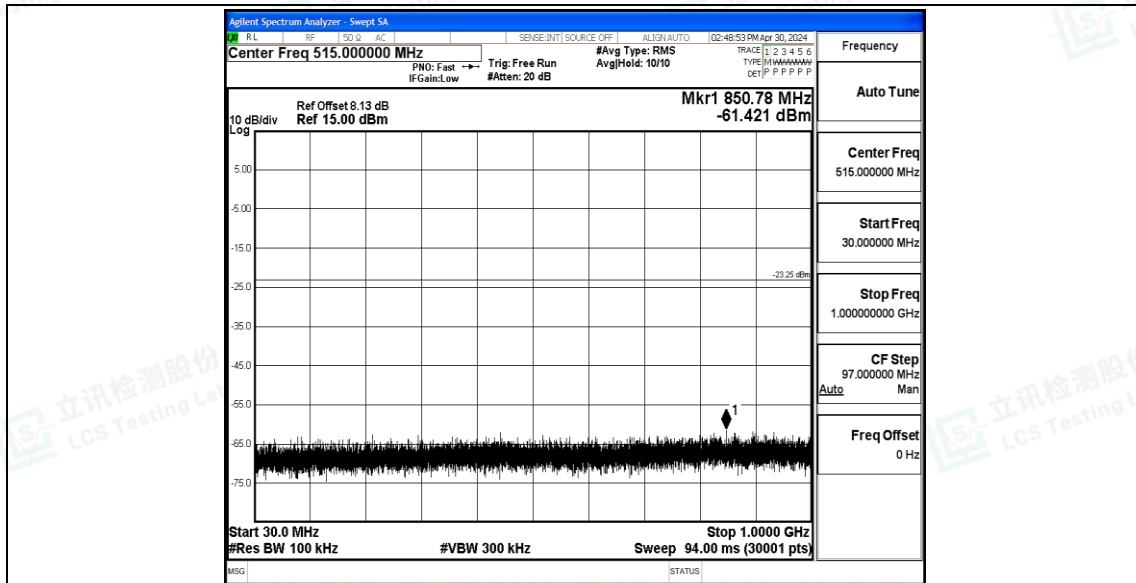


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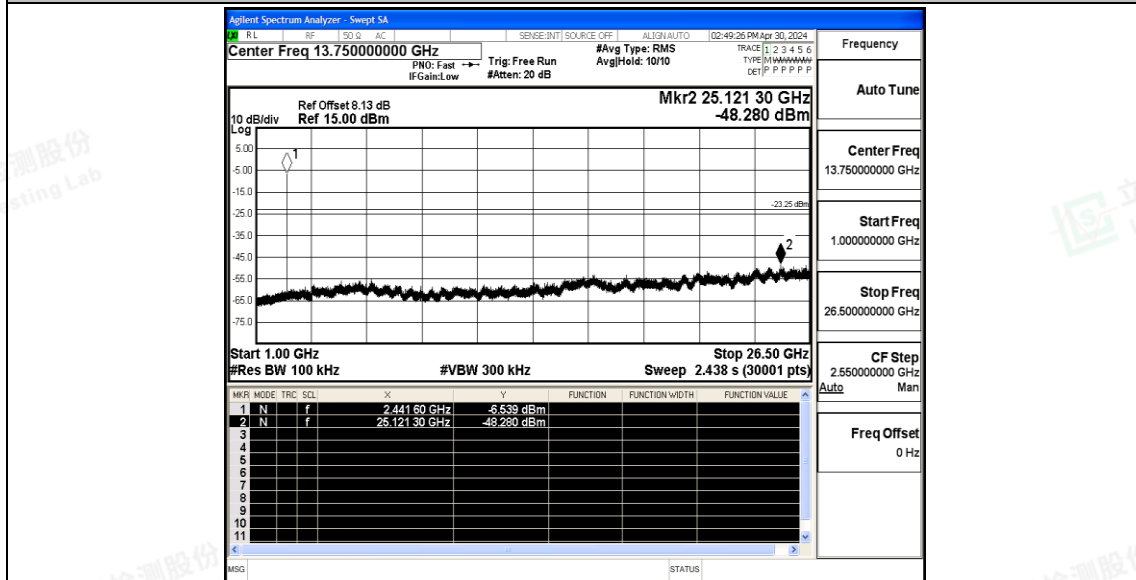
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_30~1000



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