



## Appendix A

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

Product Name: Portable Wireless Speaker

Test Model: M1

#### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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### A.1 20dB Emission Bandwidth

#### Test Result

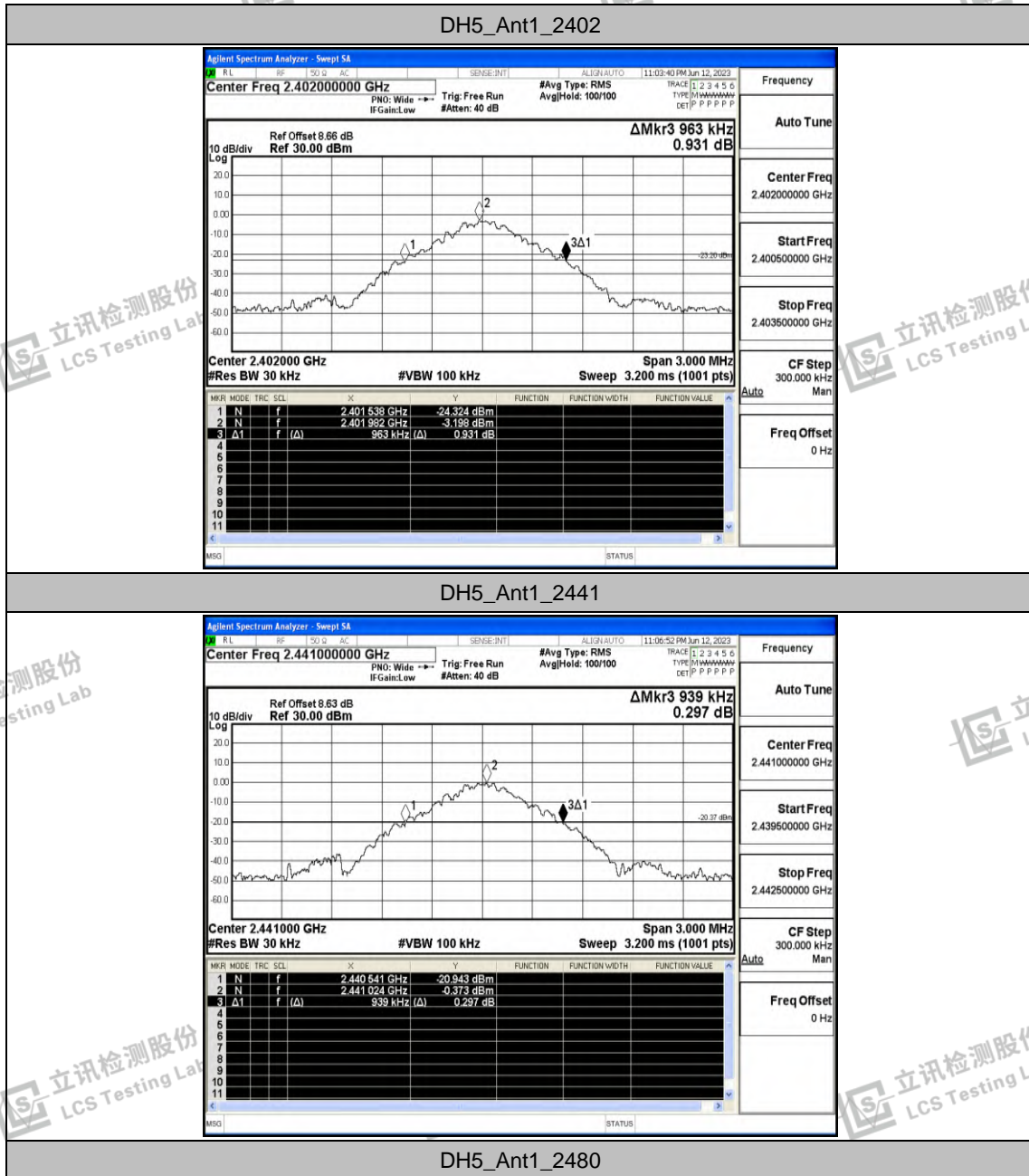
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.538	2402.501	---	Pass
		2441	0.939	2440.541	2441.480	---	Pass
		2480	0.960	2479.538	2480.498	---	Pass
2DH5	Ant1	2402	1.353	2401.328	2402.681	---	Pass
		2441	1.290	2440.370	2441.660	---	Pass
		2480	1.347	2479.334	2480.681	---	Pass
3DH5	Ant1	2402	1.305	2401.349	2402.654	---	Pass
		2441	1.296	2440.358	2441.654	---	Pass
		2480	1.344	2479.331	2480.675	---	Pass



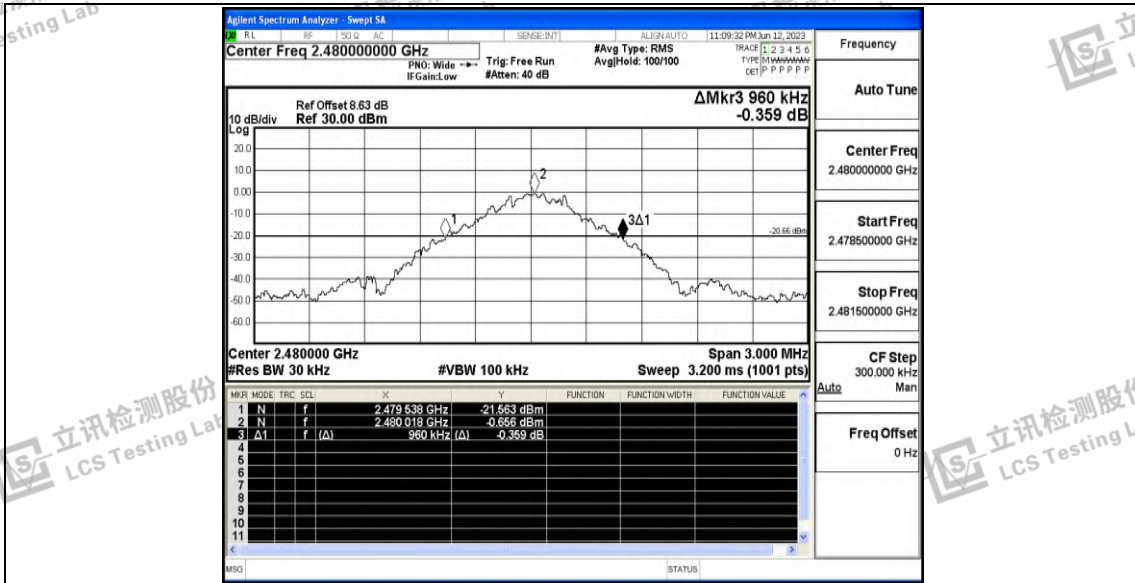
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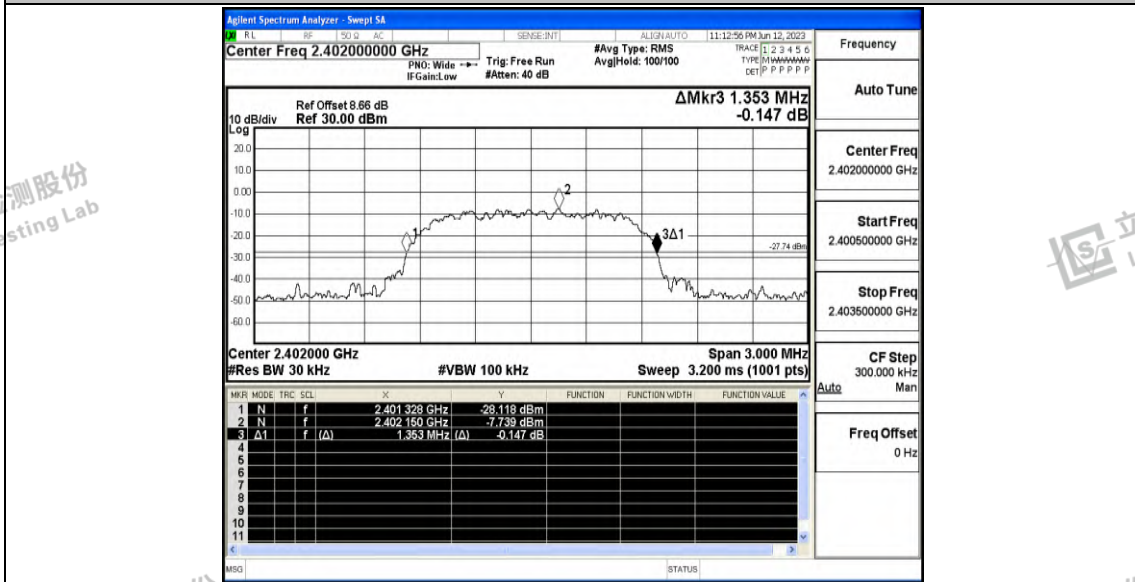
### Test Graphs



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2DH5\_Ant1\_2402

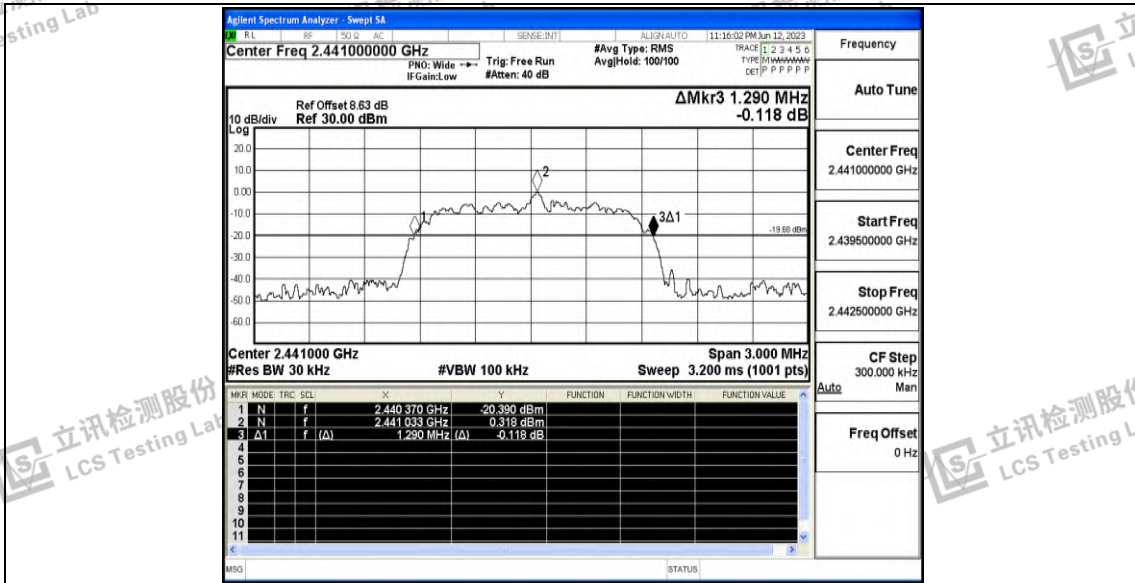


2DH5\_Ant1\_2441

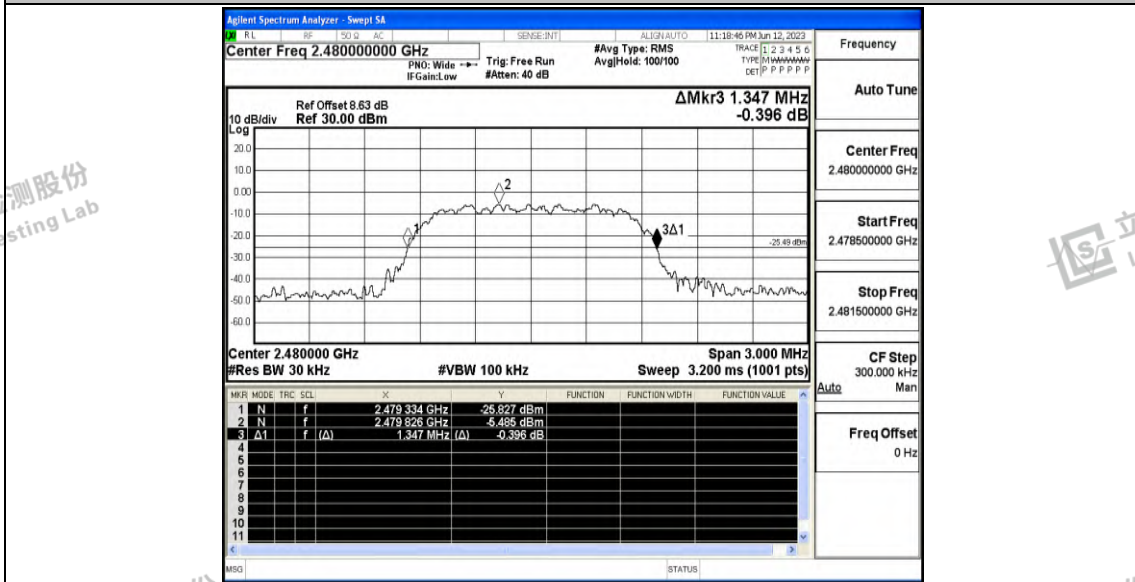


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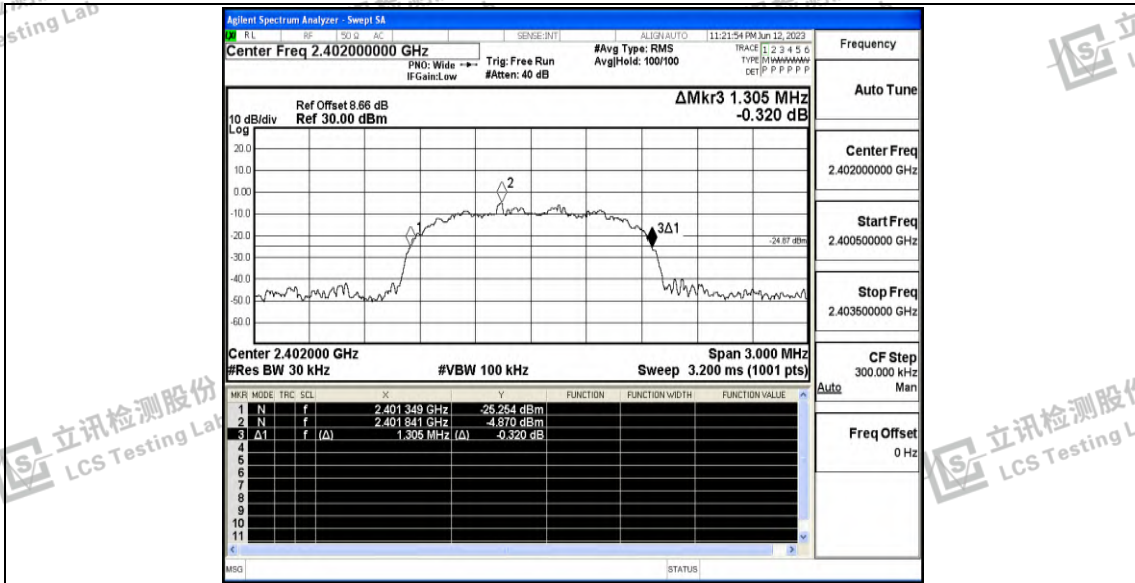
2DH5\_Ant1\_2480



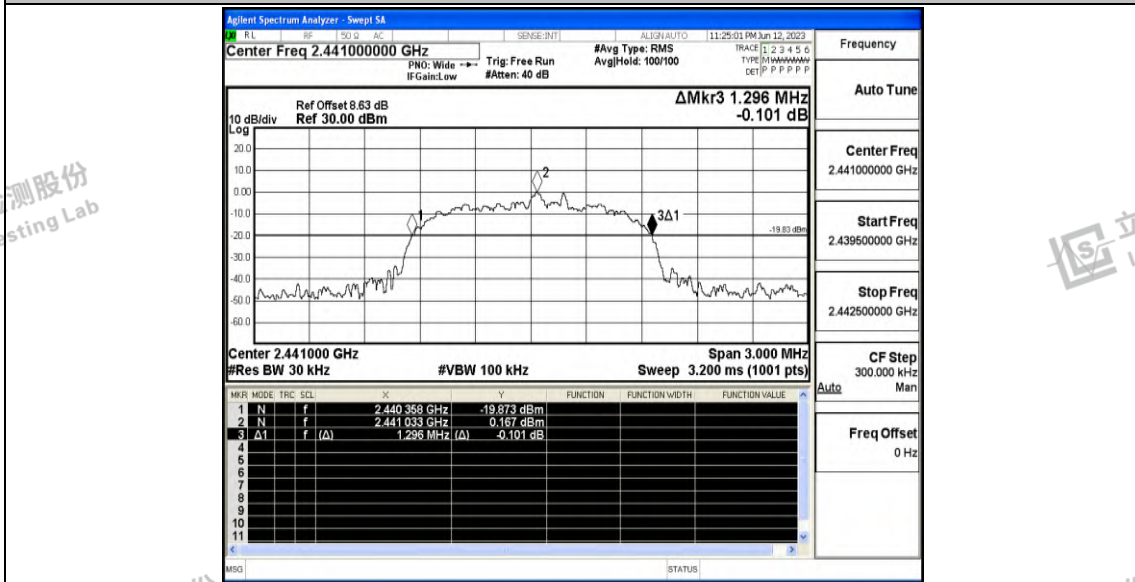
3DH5\_Ant1\_2402



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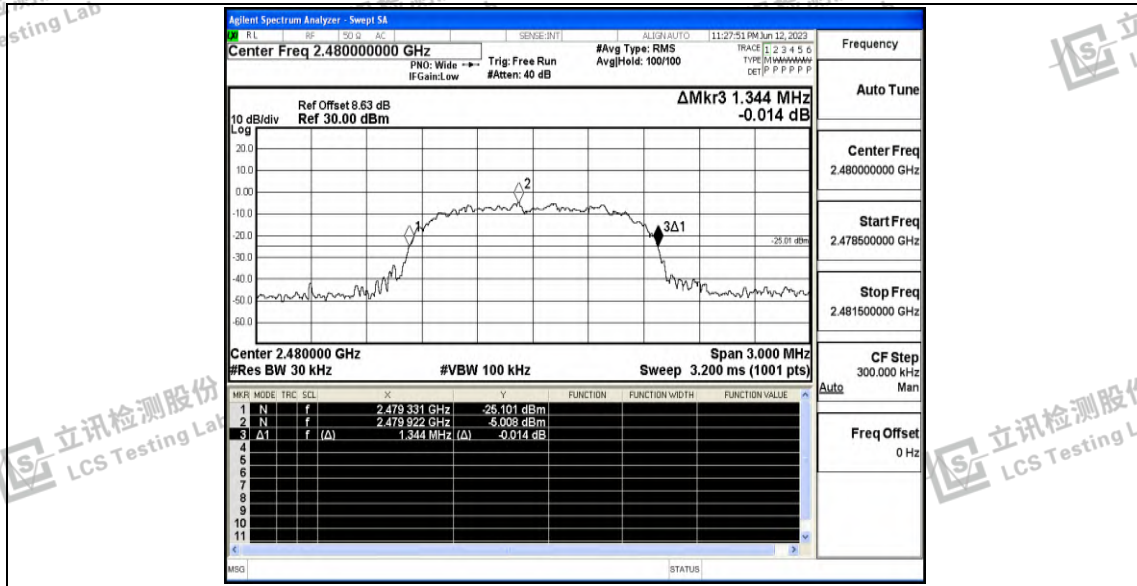
3DH5\_Ant1\_2441



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	-0.14	≤20.97	PASS
		2441	2.62	≤20.97	PASS
		2480	2.22	≤20.97	PASS
2DH5	Ant1	2402	1.73	≤20.97	PASS
		2441	4.49	≤20.97	PASS
		2480	4.04	≤20.97	PASS
3DH5	Ant1	2402	2.17	≤20.97	PASS
		2441	4.88	≤20.97	PASS
		2480	4.47	≤20.97	PASS

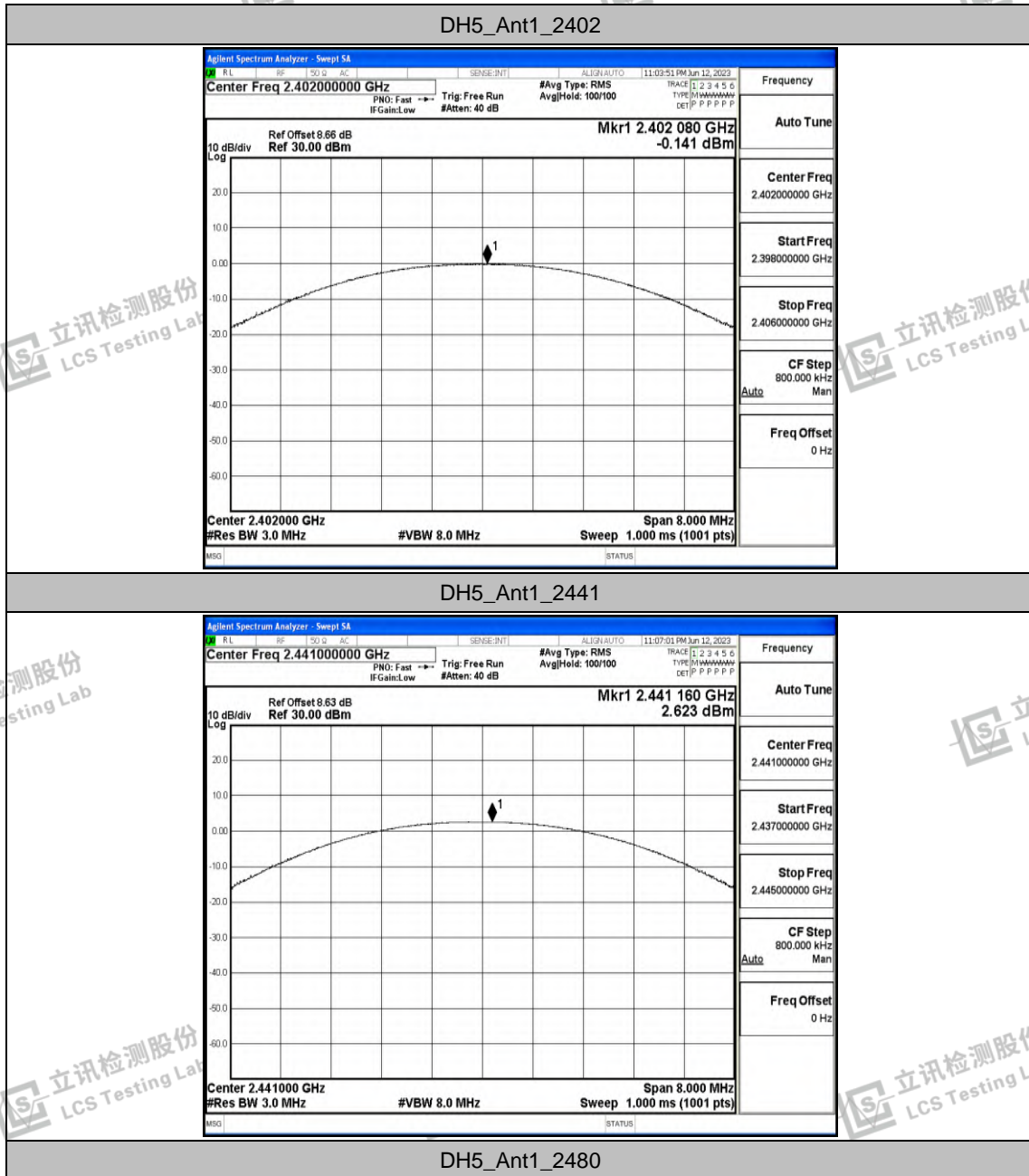


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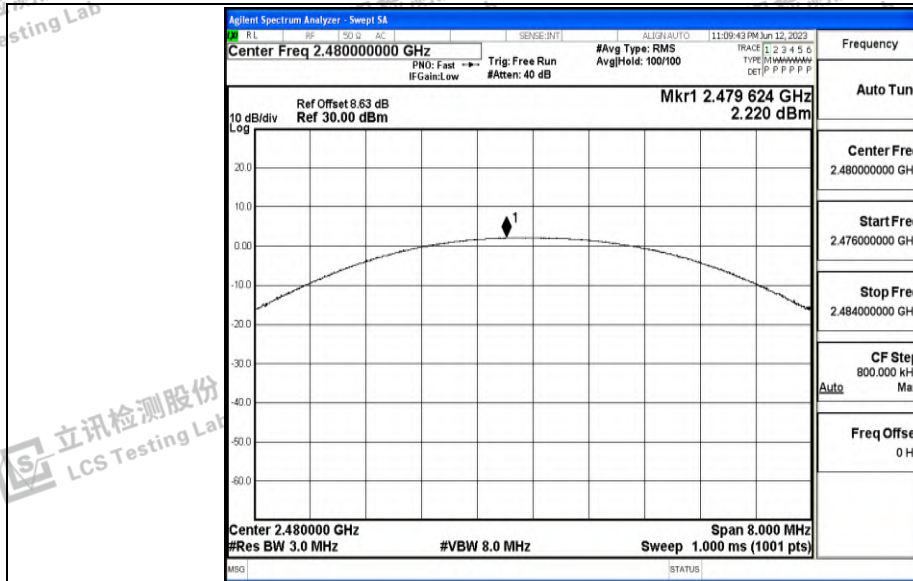




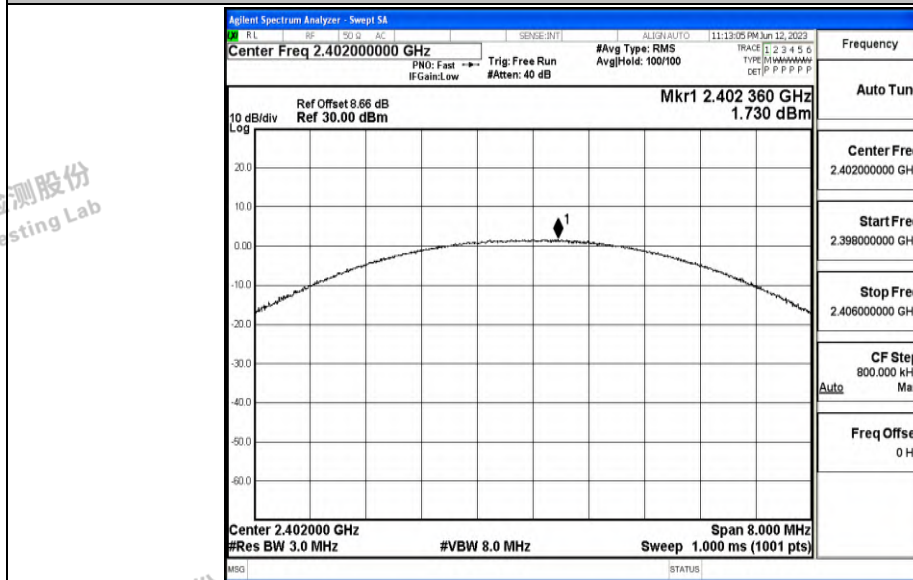
### Test Graphs



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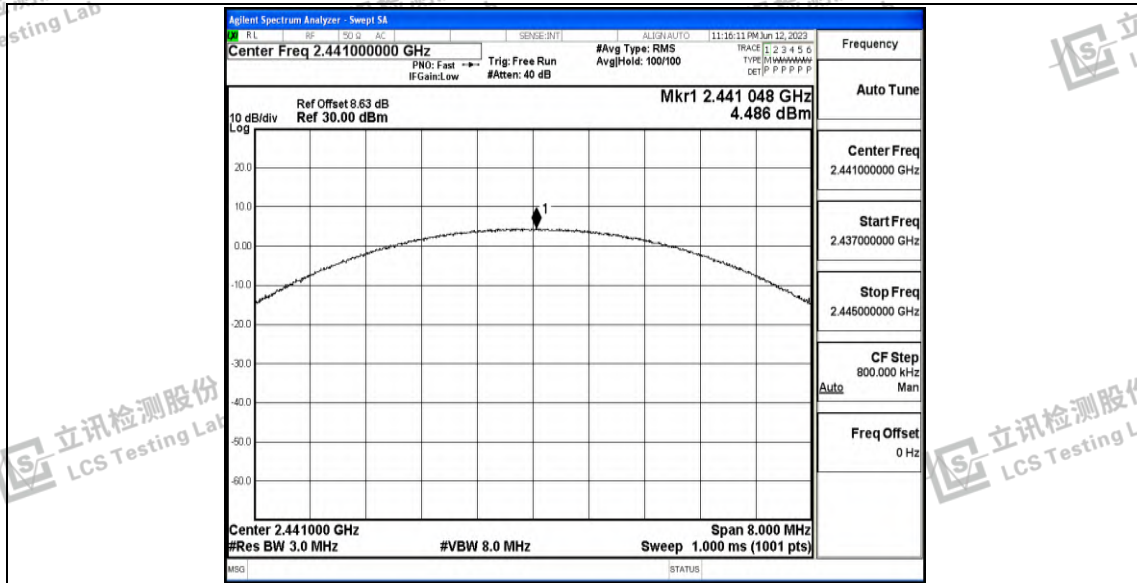
2DH5\_Ant1\_2402



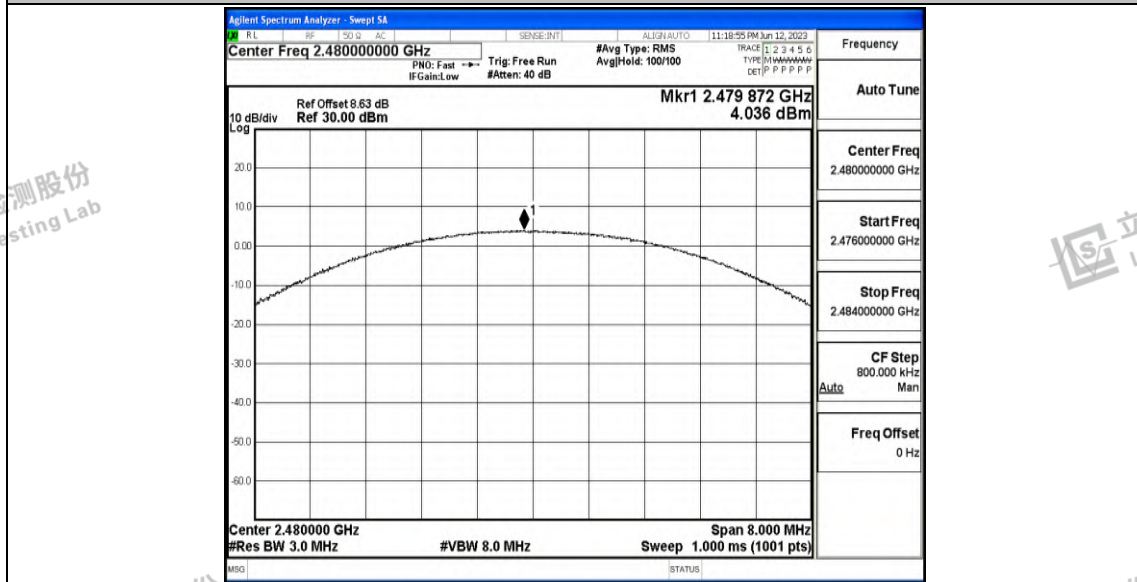
2DH5\_Ant1\_2441



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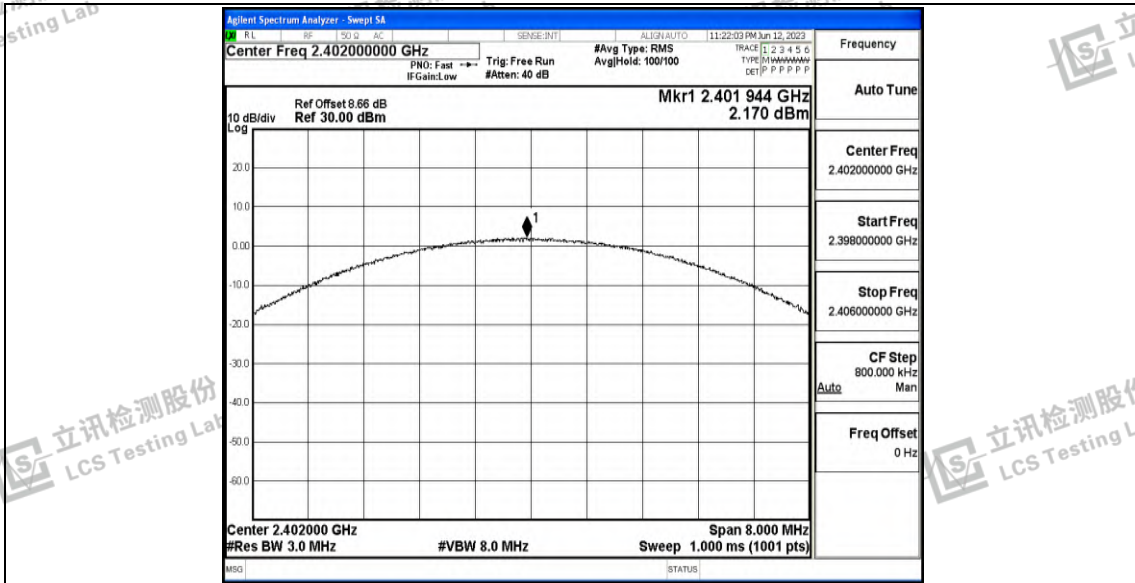
2DH5\_Ant1\_2480



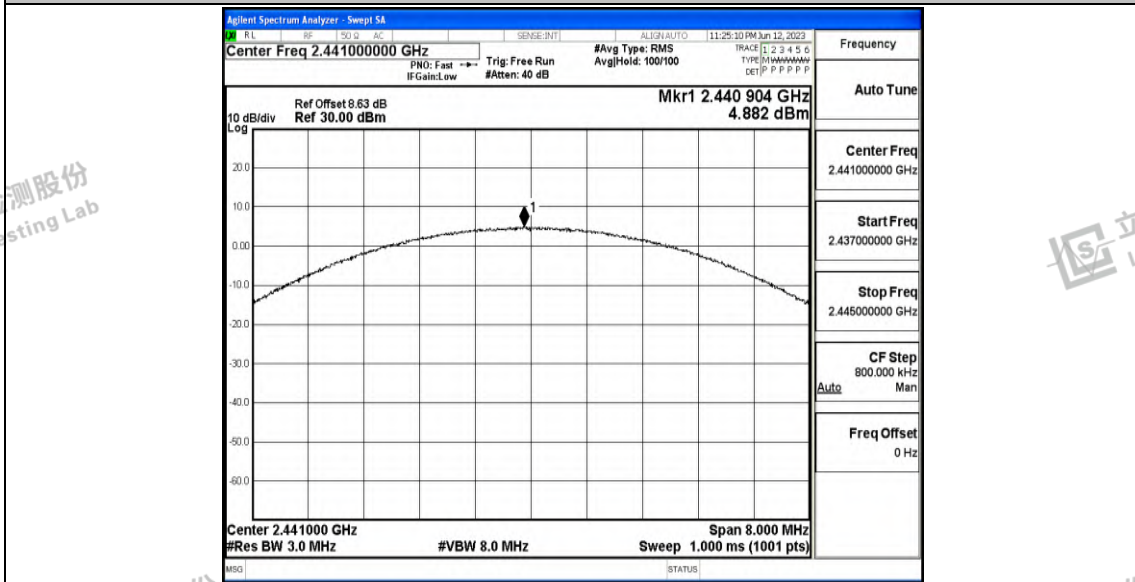
3DH5\_Ant1\_2402



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3DH5\_Ant1\_2441

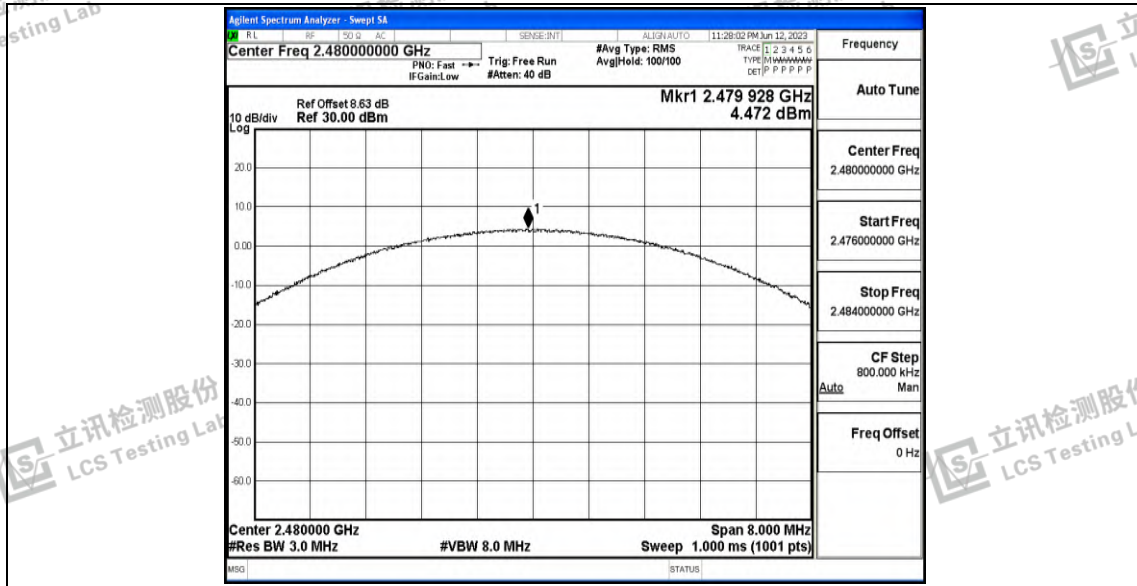


3DH5\_Ant1\_2480



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### A.3 Carrier frequency separation

#### Test Result

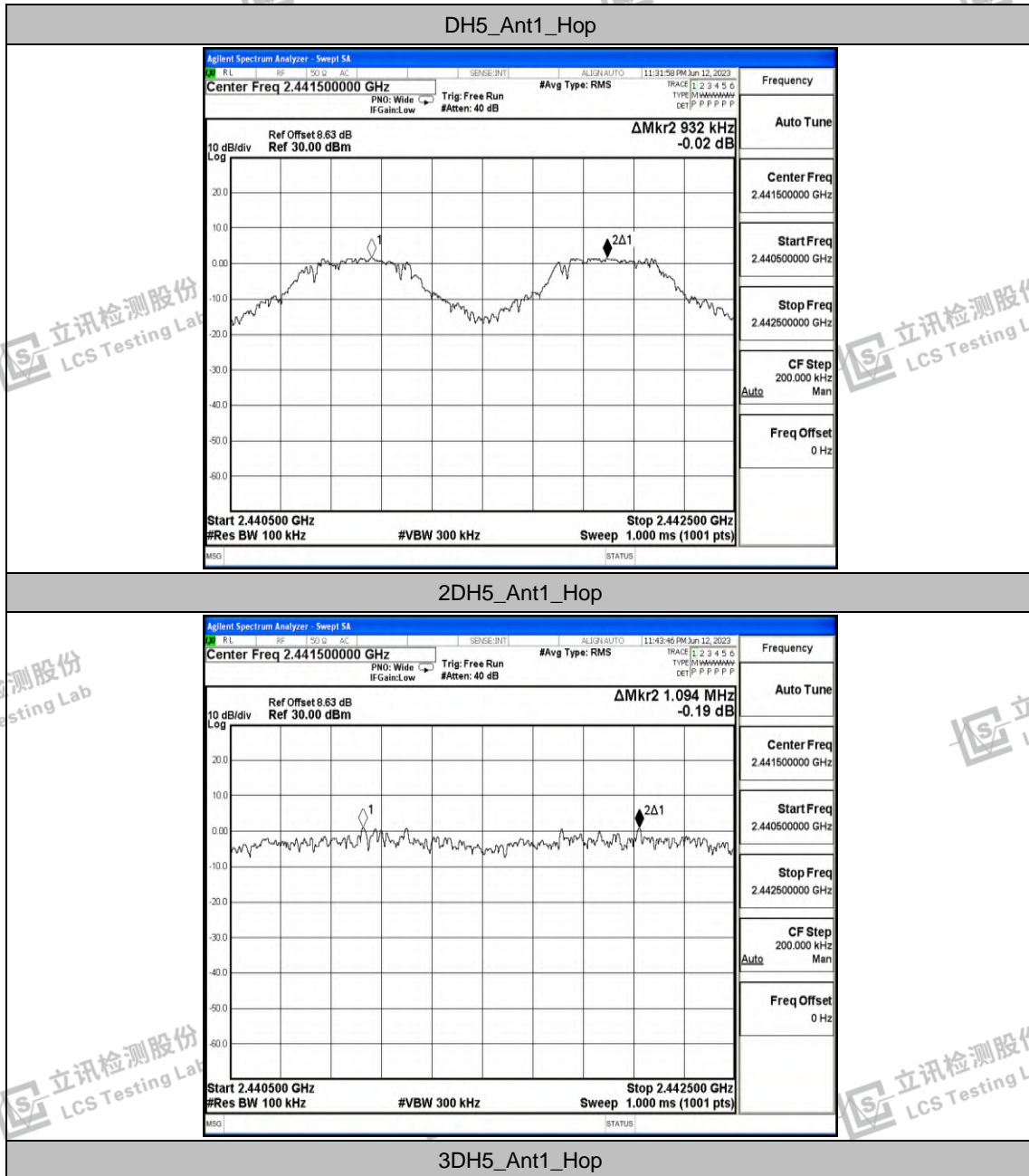
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.932	≥0.642	PASS
2DH5	Ant1	Hop	1.094	≥0.902	PASS
3DH5	Ant1	Hop	1.198	≥0.896	PASS



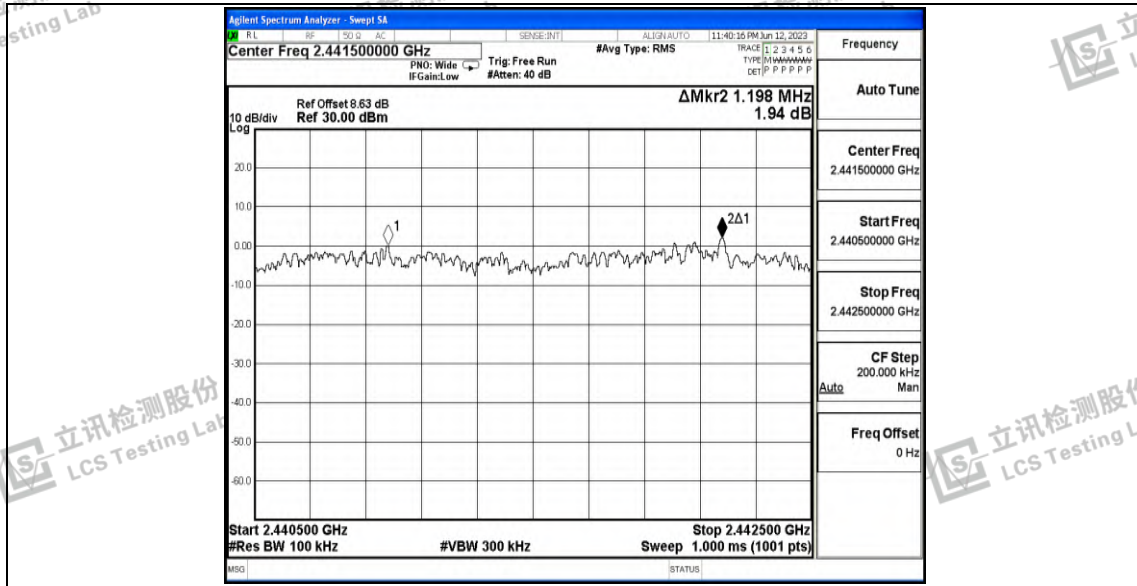
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### Test Graphs



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### A.4 Time of occupancy

#### Test Result

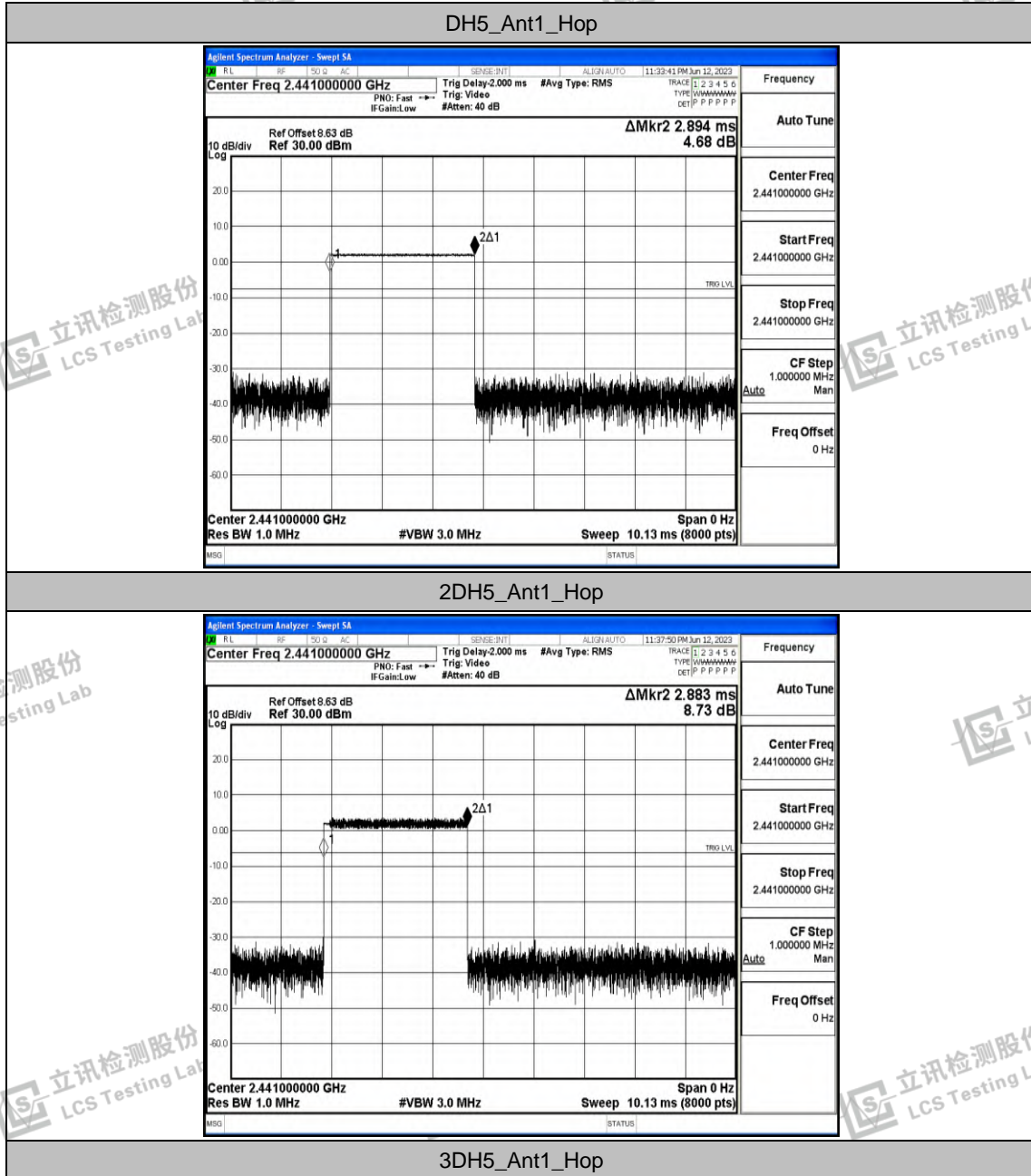
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.894	106.67	0.309	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.882	106.67	0.307	≤0.4	PASS



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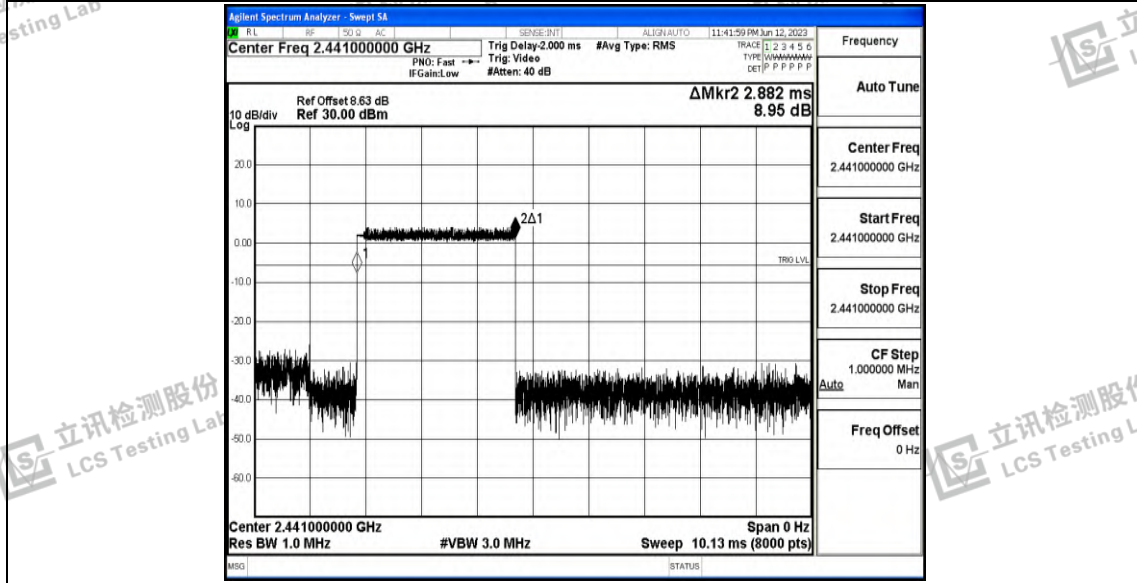


### Test Graphs



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## A.5 Number of hopping channels

### Test Result

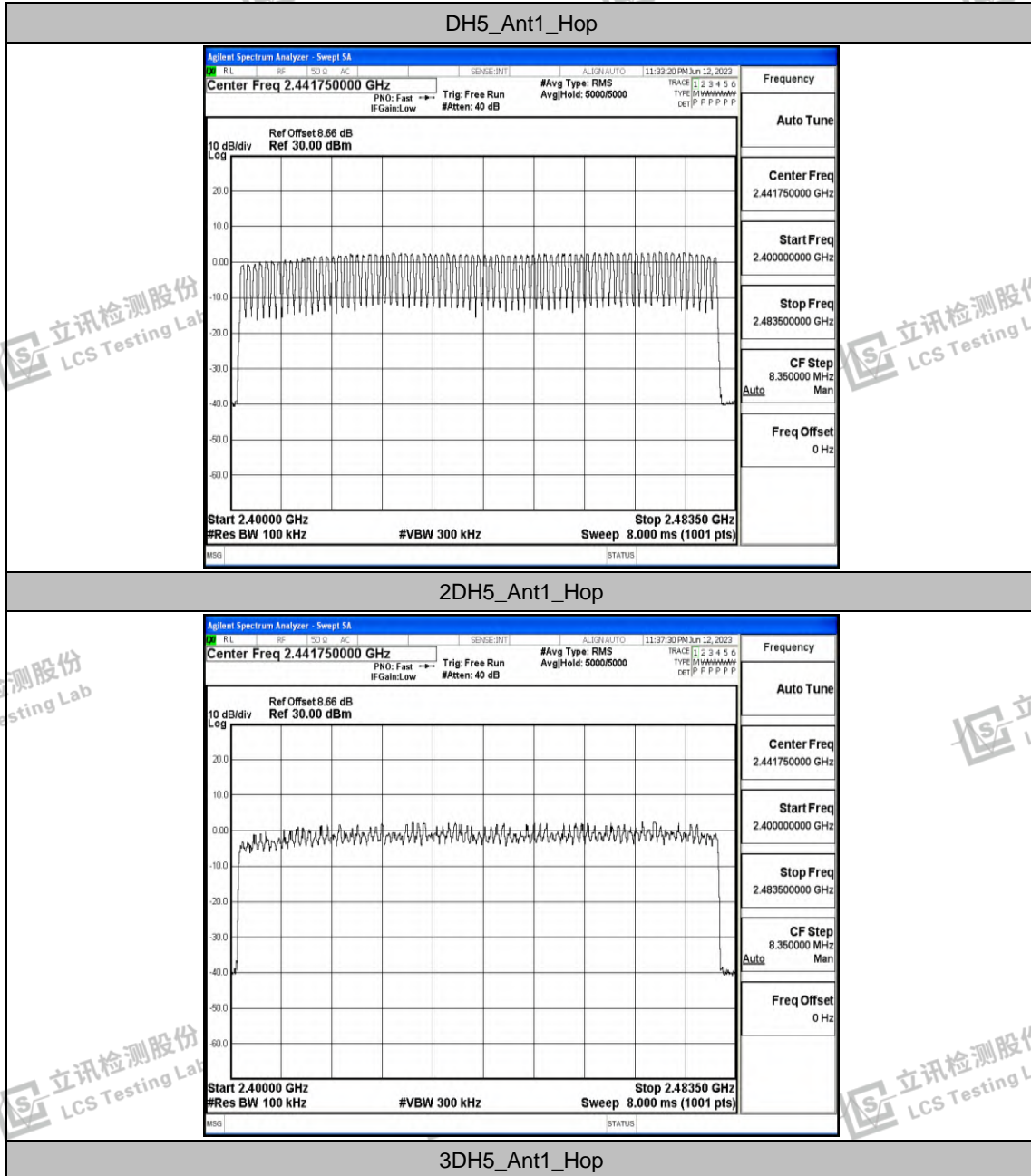
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



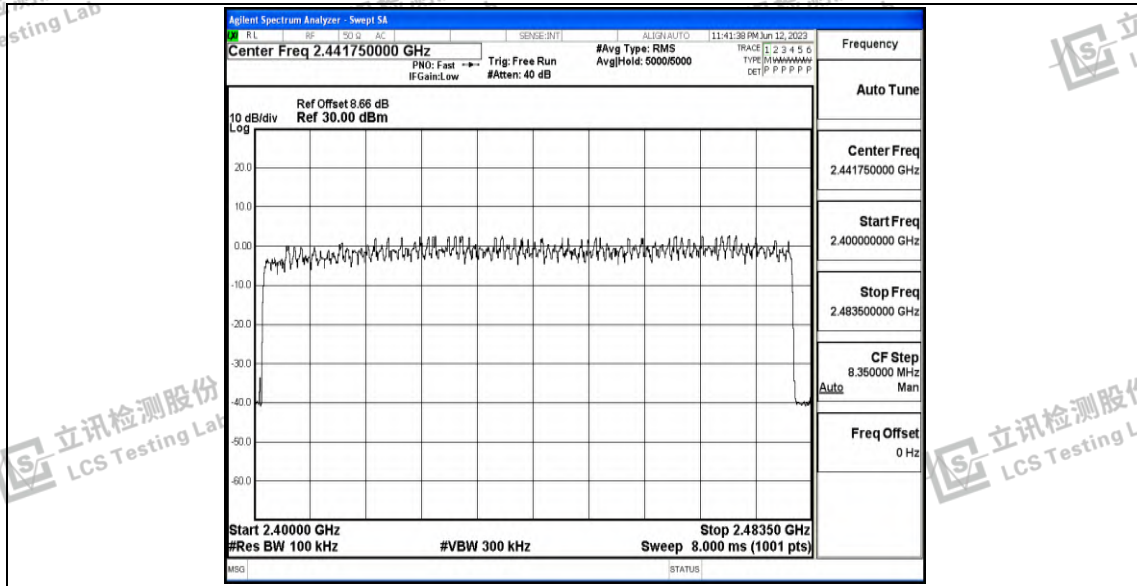
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## A.6 Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.41	-49.86	≤-21.41	PASS
		High	2480	1.19	-48.84	≤-18.81	PASS
		Low	Hop_2402	-1.18	-49.24	≤-21.18	PASS
		High	Hop_2480	2.71	-47.58	≤-17.29	PASS
2DH5	Ant1	Low	2402	-5.29	-49.81	≤-25.29	PASS
		High	2480	-1.66	-49.22	≤-21.66	PASS
		Low	Hop_2402	-4.46	-49.5	≤-24.46	PASS
		High	Hop_2480	1.51	-48.01	≤-18.49	PASS
3DH5	Ant1	Low	2402	-0.95	-49.87	≤-20.95	PASS
		High	2480	-1.52	-49.05	≤-21.52	PASS
		Low	Hop_2402	-3.63	-48.72	≤-23.63	PASS
		High	Hop_2480	1.53	-47.81	≤-18.47	PASS

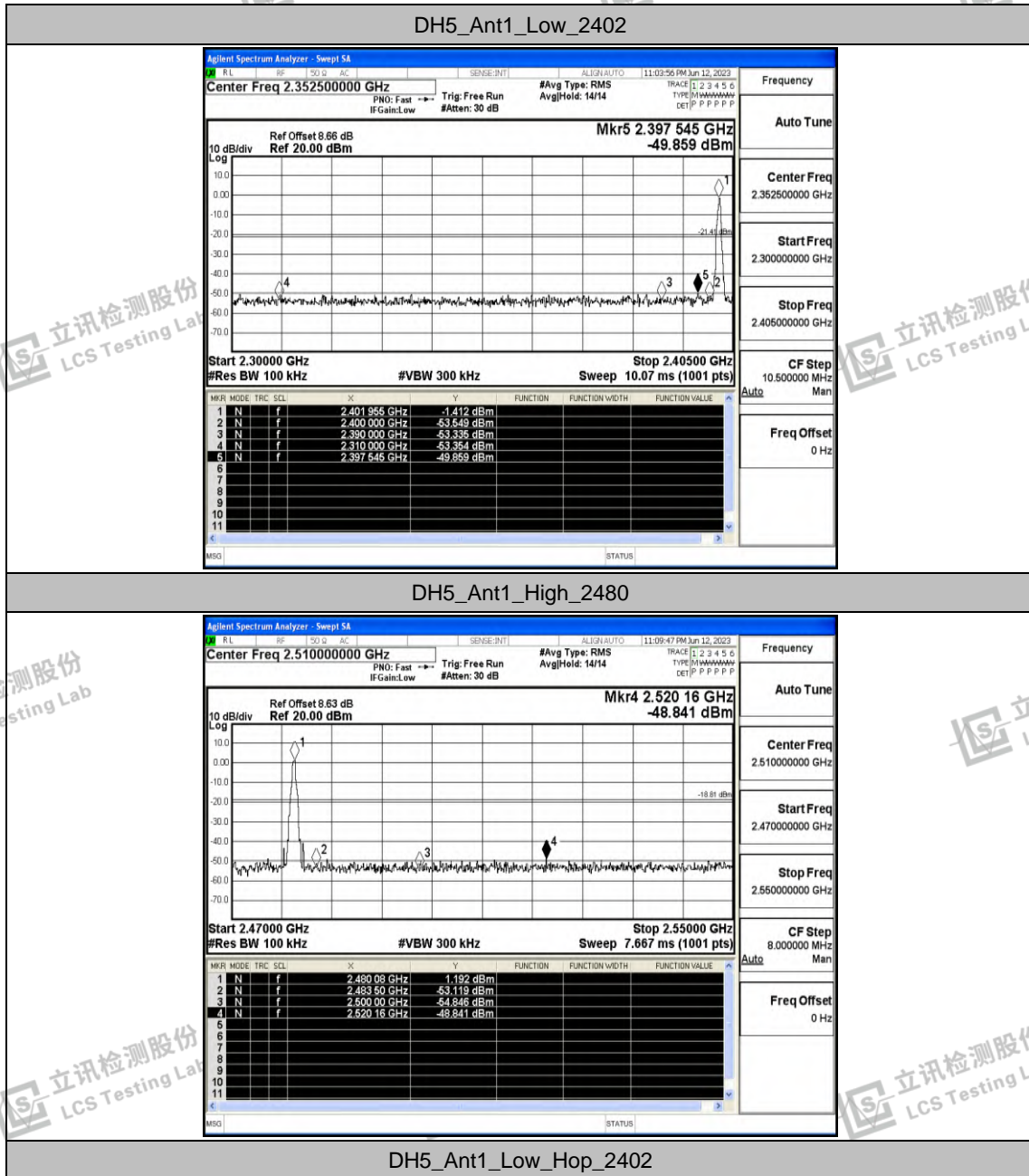


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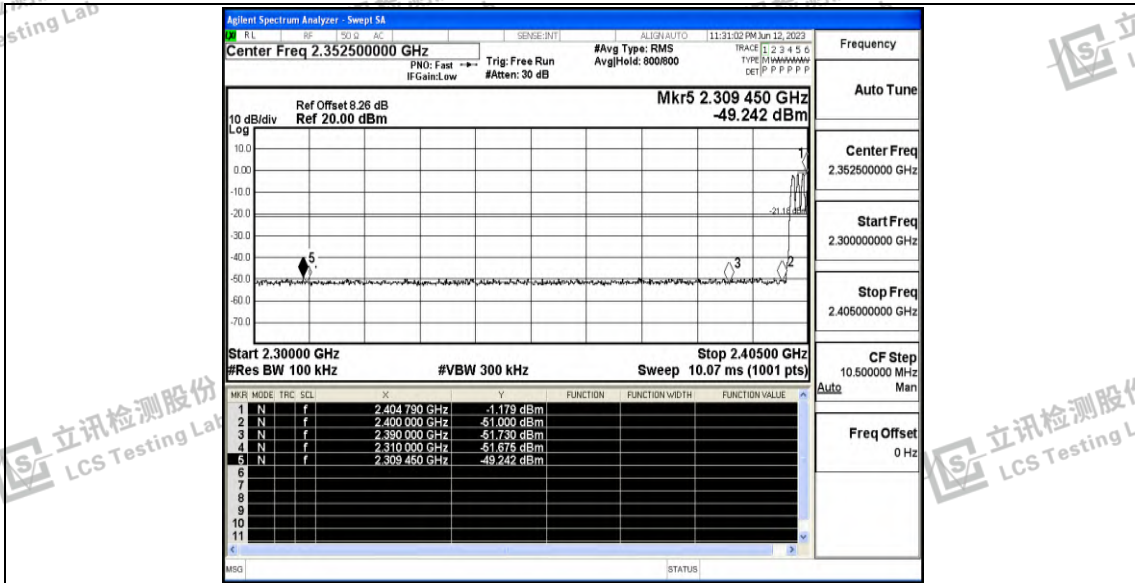




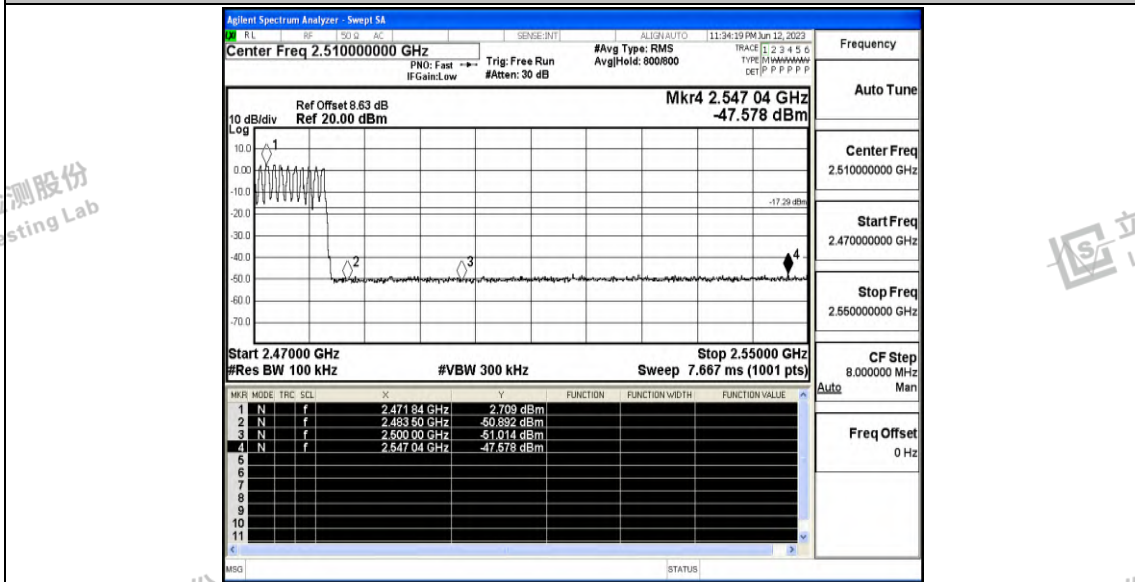
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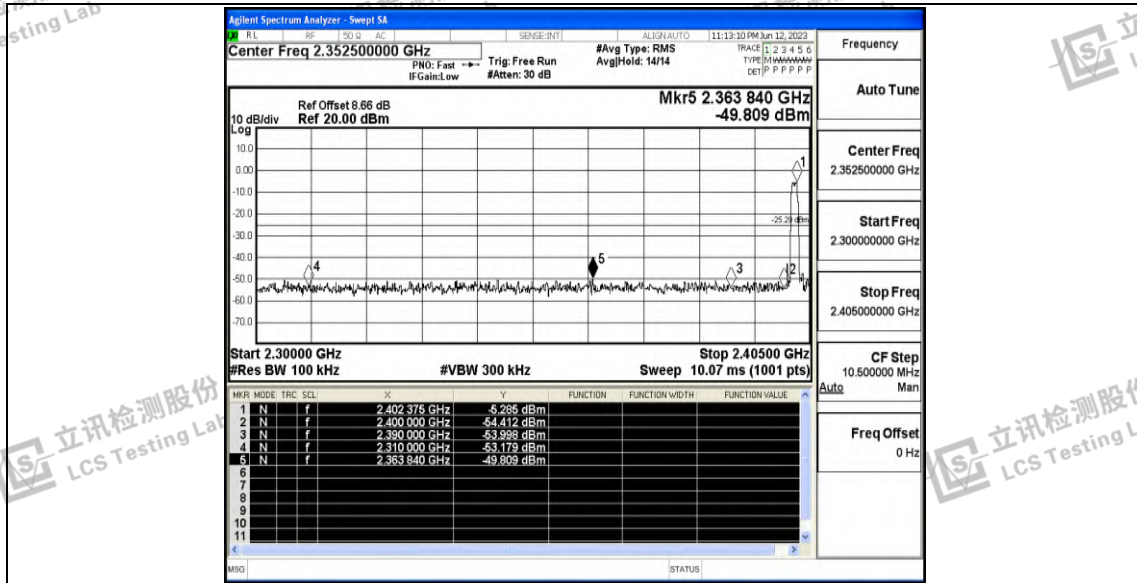
DH5\_Ant1\_High\_Hop\_2480



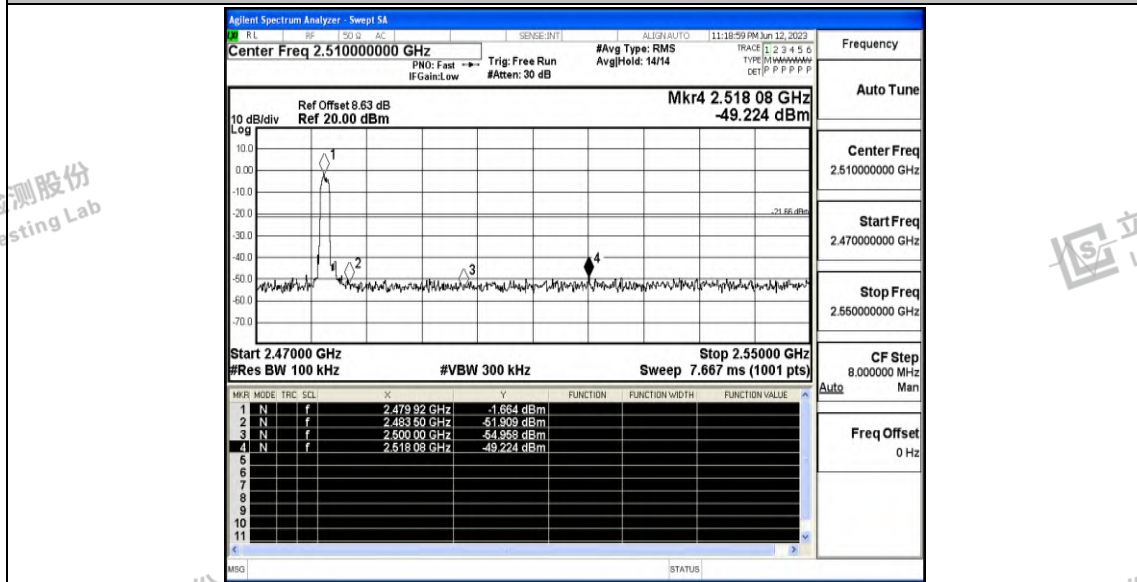
2DH5\_Ant1\_Low\_2402



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2DH5\_Ant1\_High\_2480

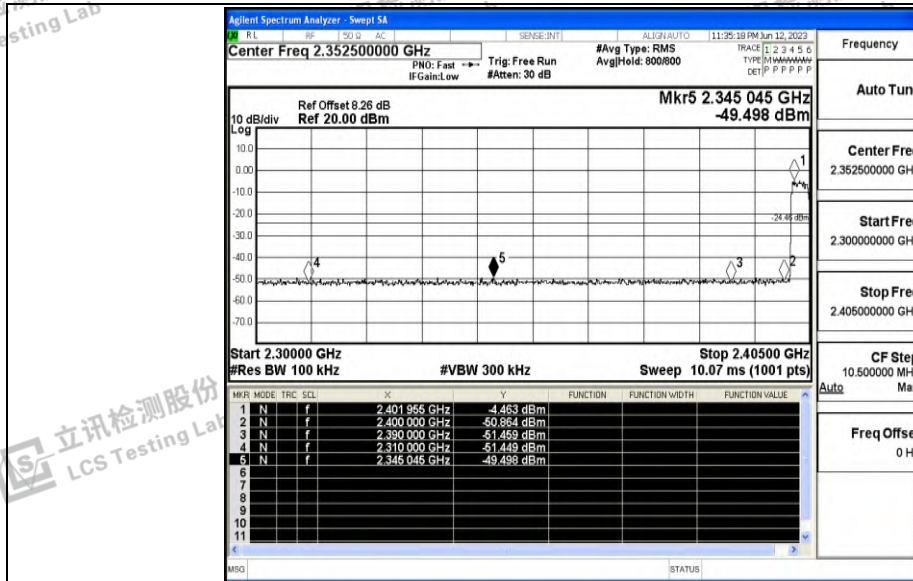


2DH5\_Ant1\_Low\_Hop\_2402

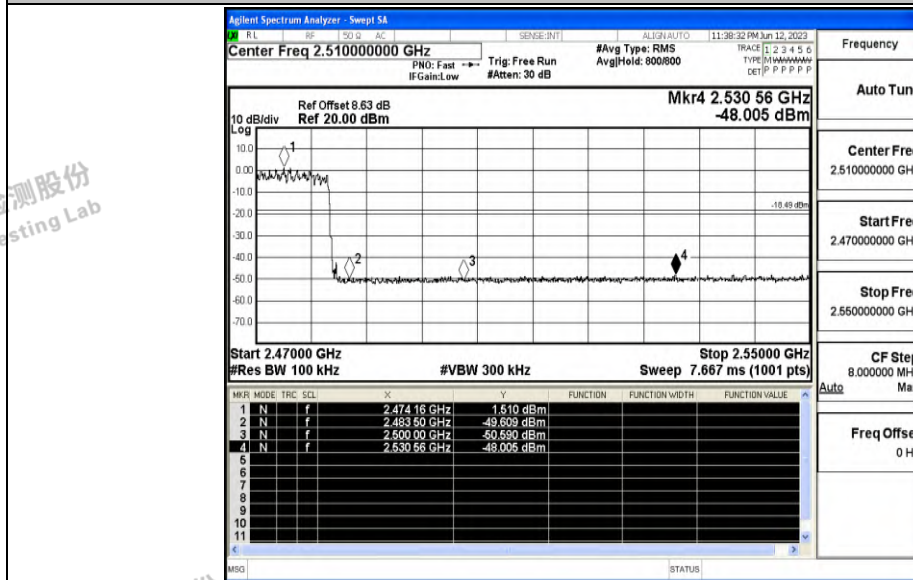


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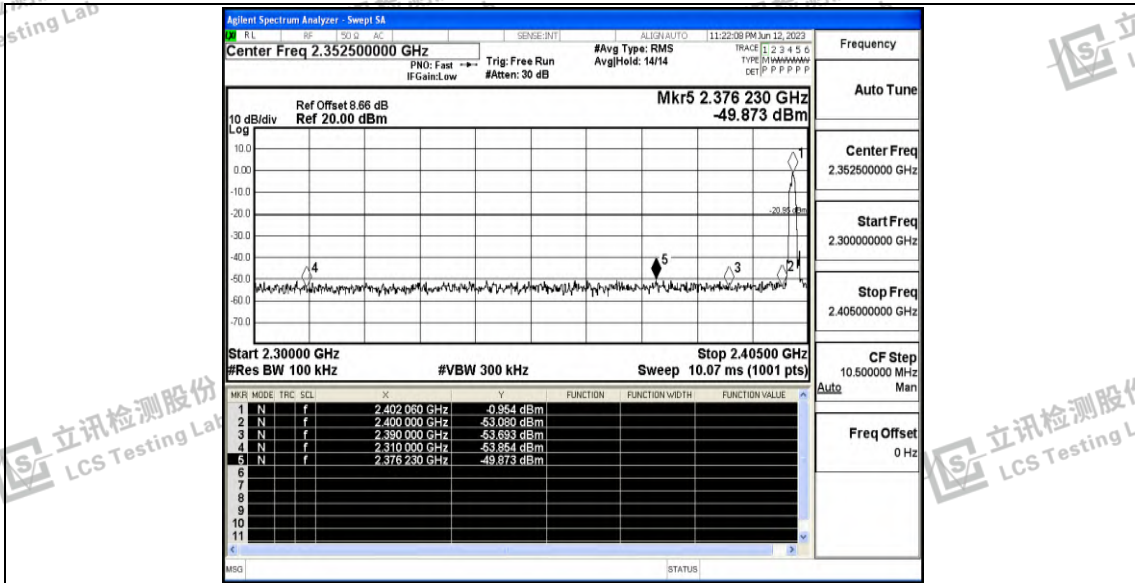
2DH5\_Ant1\_High\_Hop\_2480



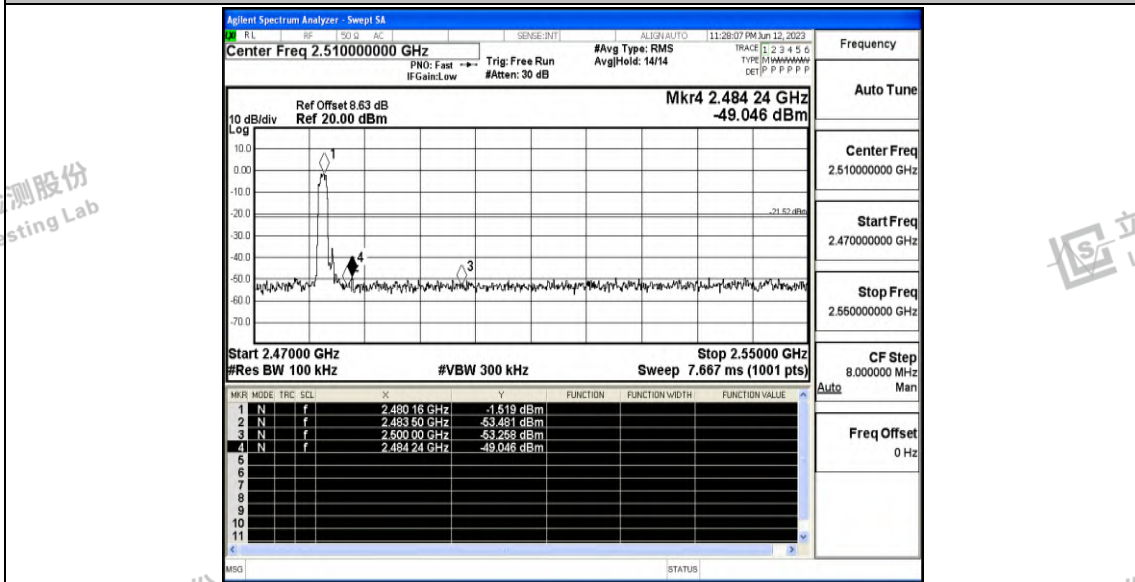
3DH5\_Ant1\_Low\_2402



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3DH5\_Ant1\_High\_2480

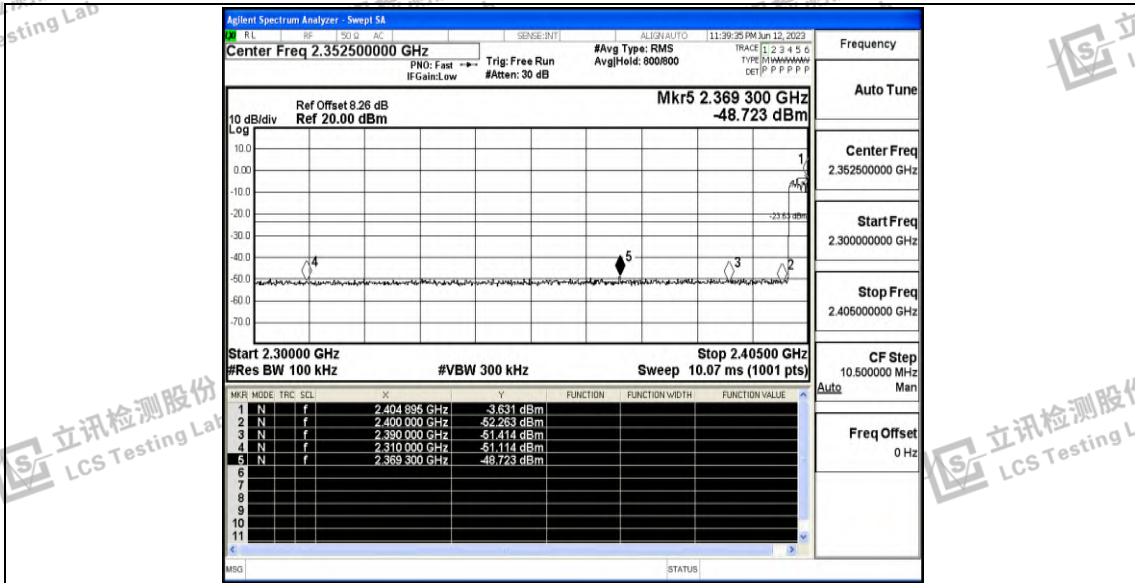


3DH5\_Ant1\_Low\_Hop\_2402

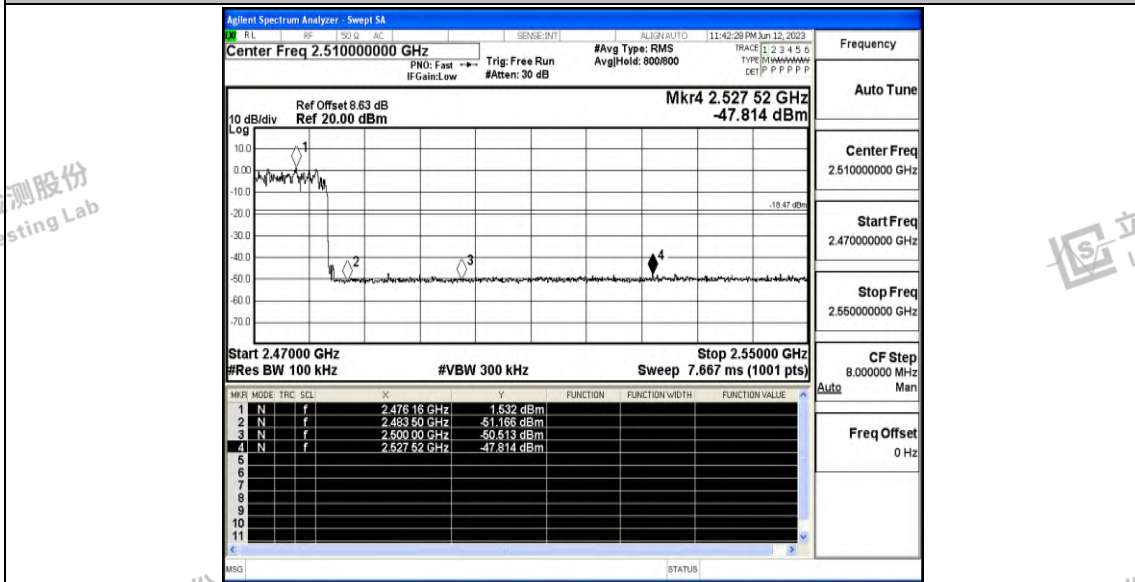


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3DH5\_Ant1\_High\_Hop\_2480



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## A.7 Conducted Spurious Emission

### Test Result

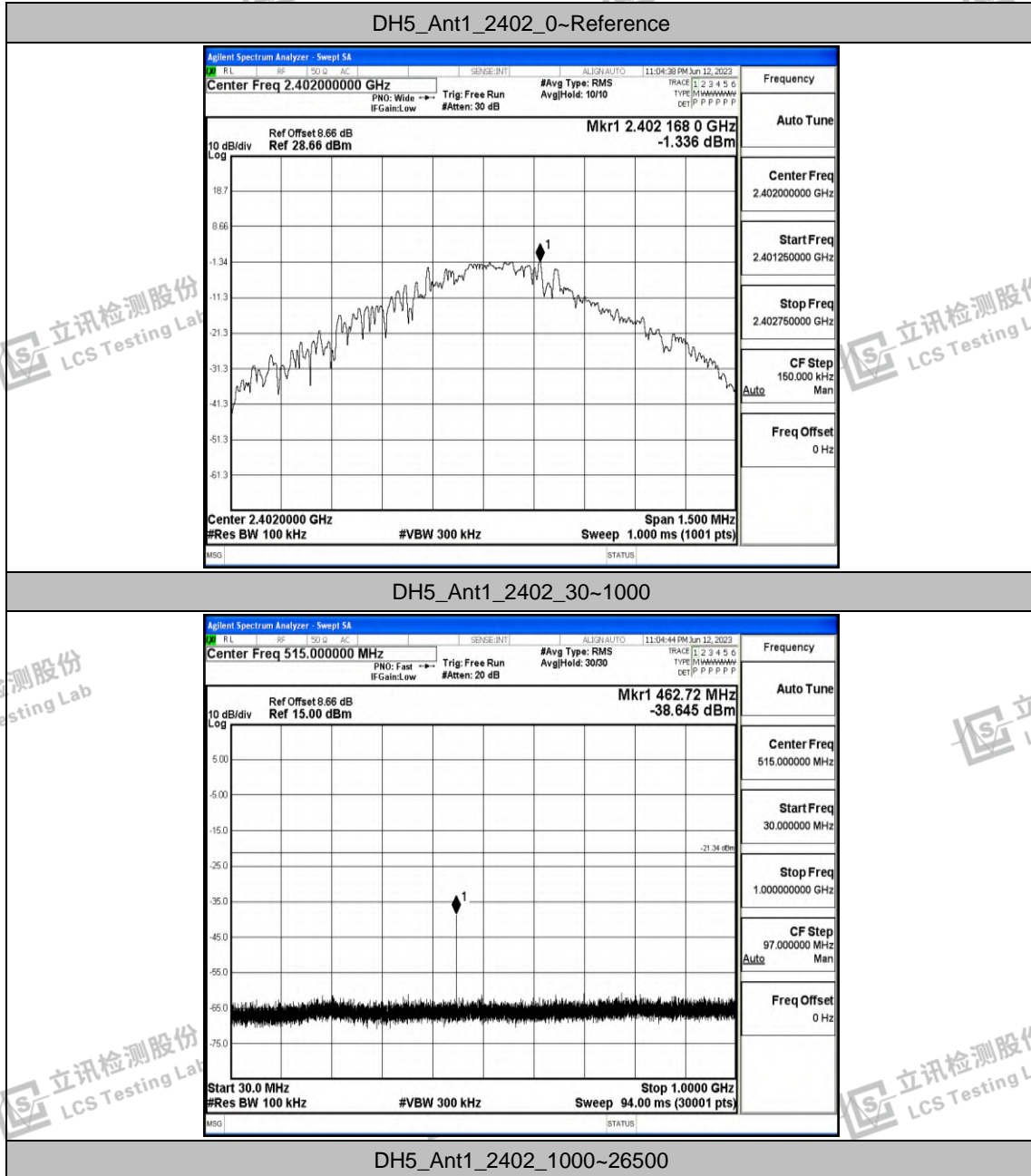
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-38.65	≤-21.34	PASS
			1000~26500	-1.34	-45.83	≤-21.34	PASS
		2441	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-60.87	≤-18.41	PASS
			1000~26500	1.59	-46.22	≤-18.41	PASS
		2480	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-60.86	≤-18.97	PASS
			1000~26500	1.03	-46.05	≤-18.97	PASS
2DH5	Ant1	2402	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-60.78	≤-24.06	PASS
			1000~26500	-4.06	-45.8	≤-24.06	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-60.9	≤-18.71	PASS
			1000~26500	1.29	-45.27	≤-18.71	PASS
		2480	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-60.54	≤-22.03	PASS
			1000~26500	-2.03	-46.1	≤-22.03	PASS
3DH5	Ant1	2402	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-60.18	≤-23.14	PASS
			1000~26500	-3.14	-46.3	≤-23.14	PASS
		2441	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-60.15	≤-20.65	PASS
			1000~26500	-0.65	-45.94	≤-20.65	PASS
		2480	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-60.39	≤-21.24	PASS
			1000~26500	-1.24	-46.16	≤-21.24	PASS



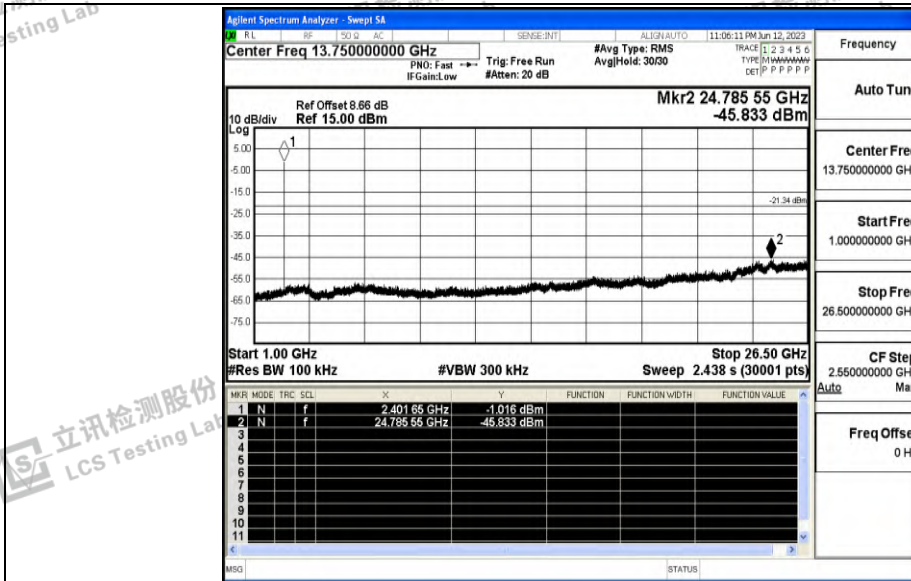
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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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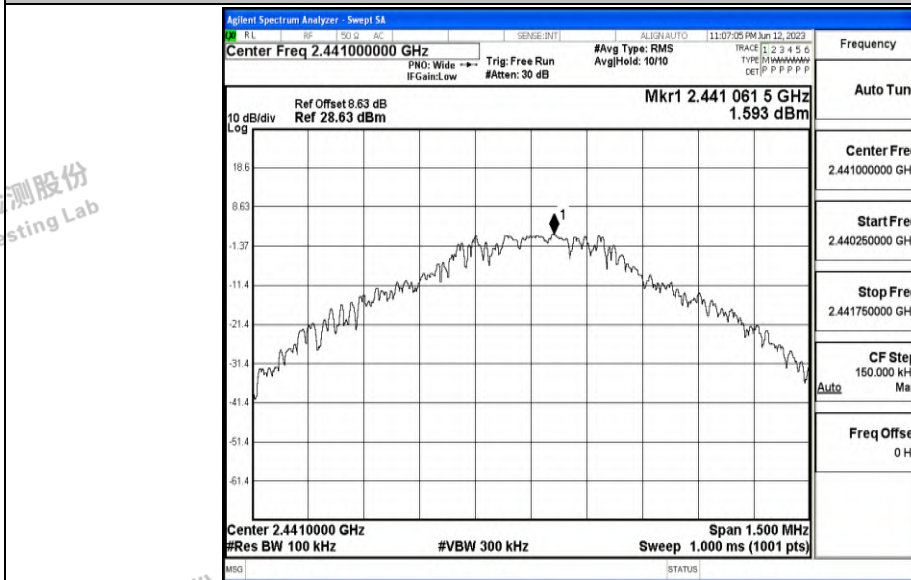
### Test Graphs



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DH5\_Ant1\_2441\_0-Reference

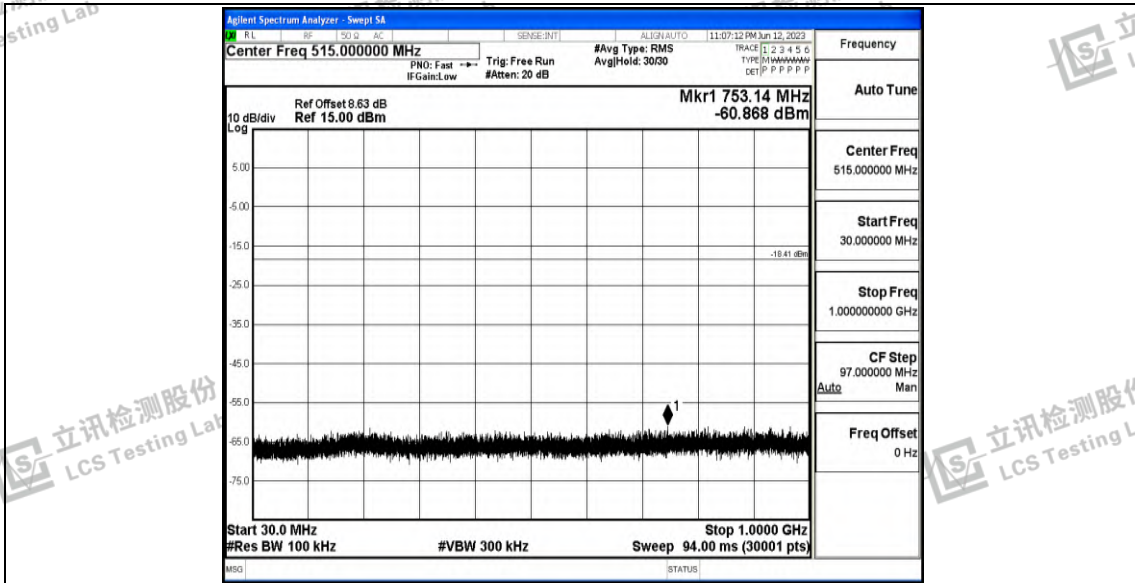


DH5\_Ant1\_2441\_30~1000

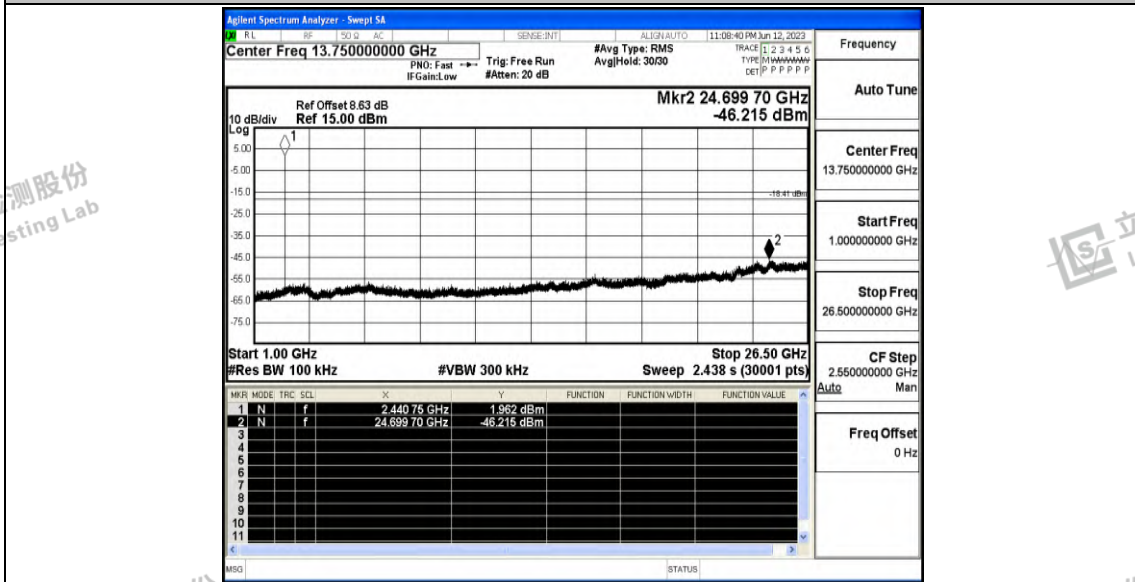


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DH5\_Ant1\_2441\_1000~26500

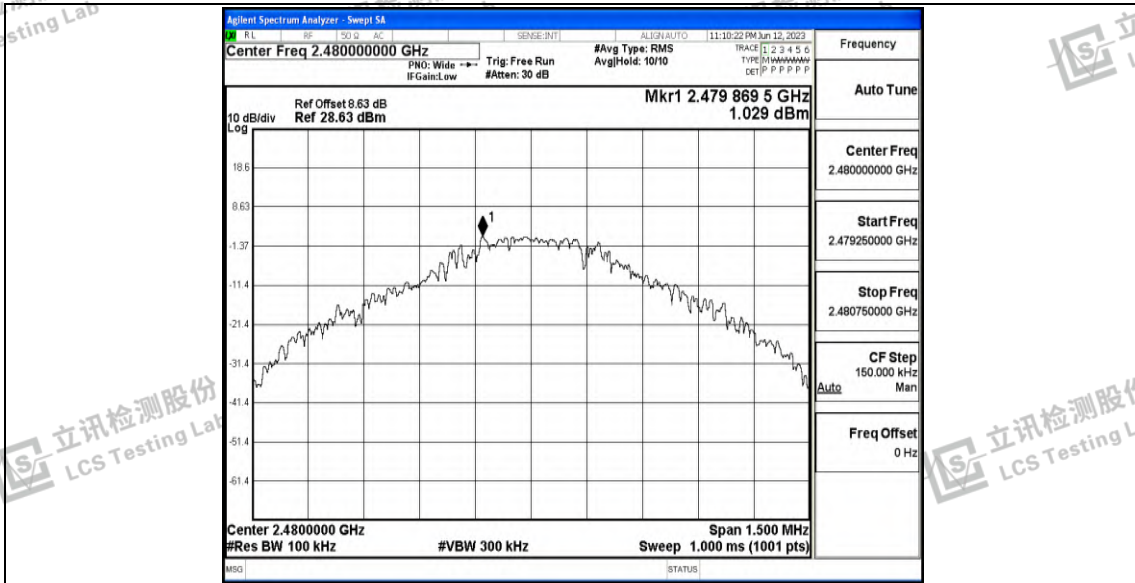


DH5\_Ant1\_2480\_0~Reference

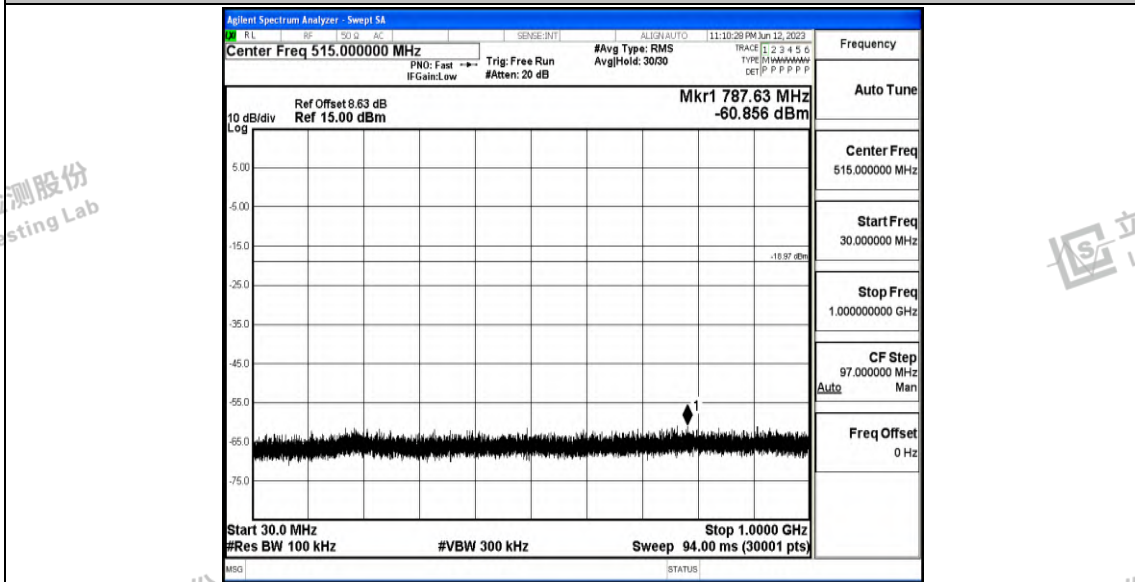


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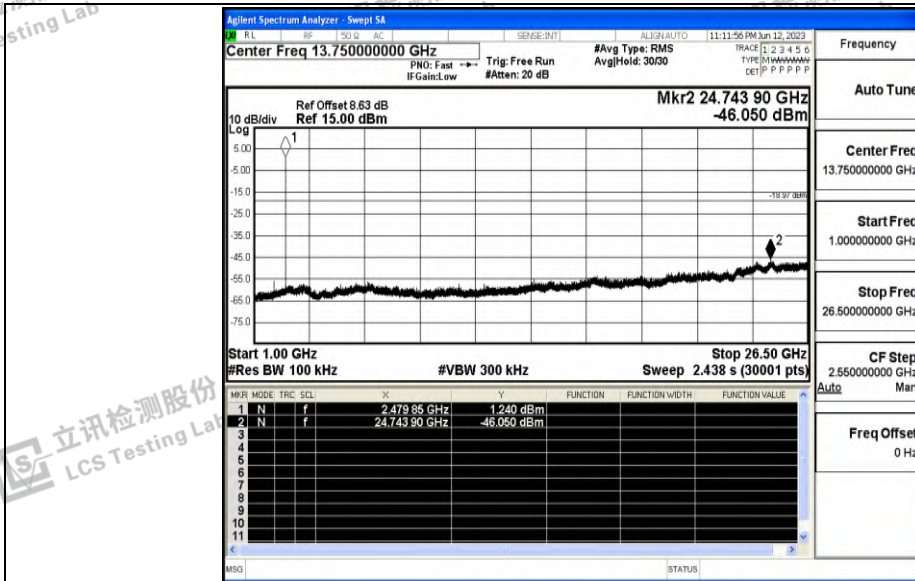
DH5\_Ant1\_2480\_30~1000



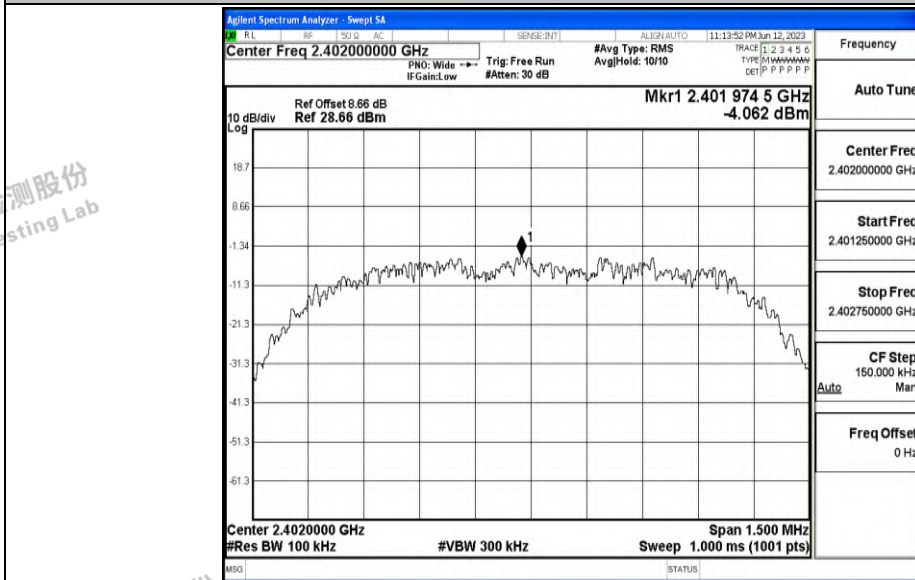
DH5\_Ant1\_2480\_1000~26500



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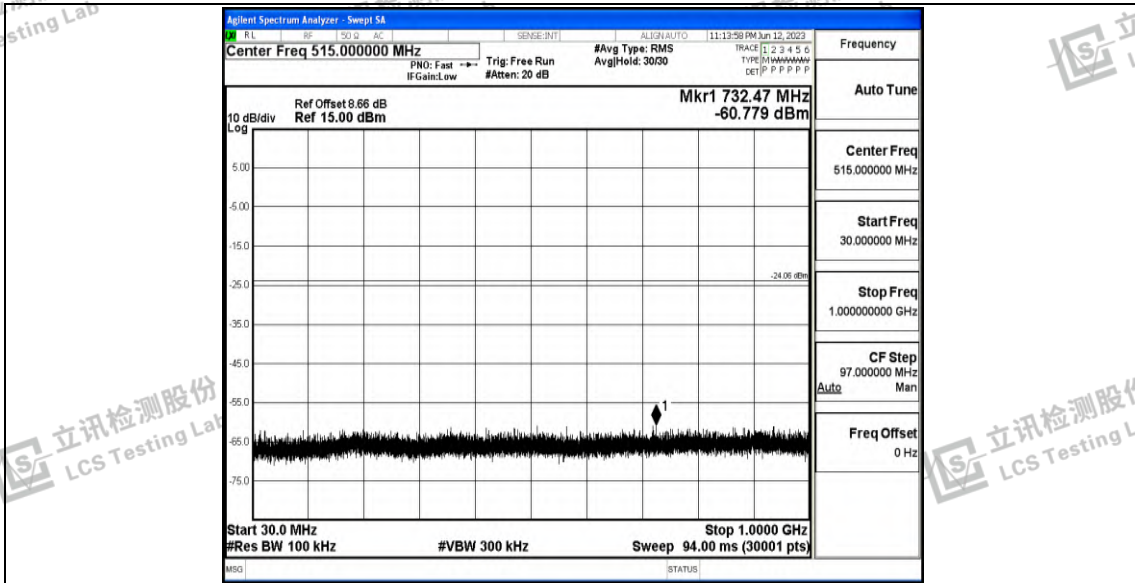
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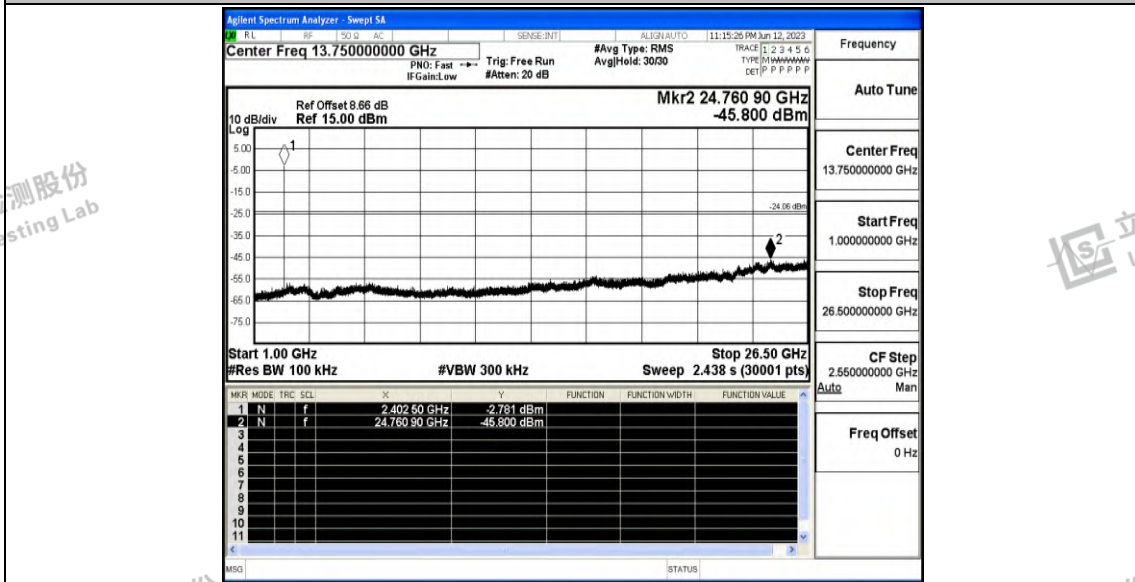
2DH5\_Ant1\_2402\_30~1000



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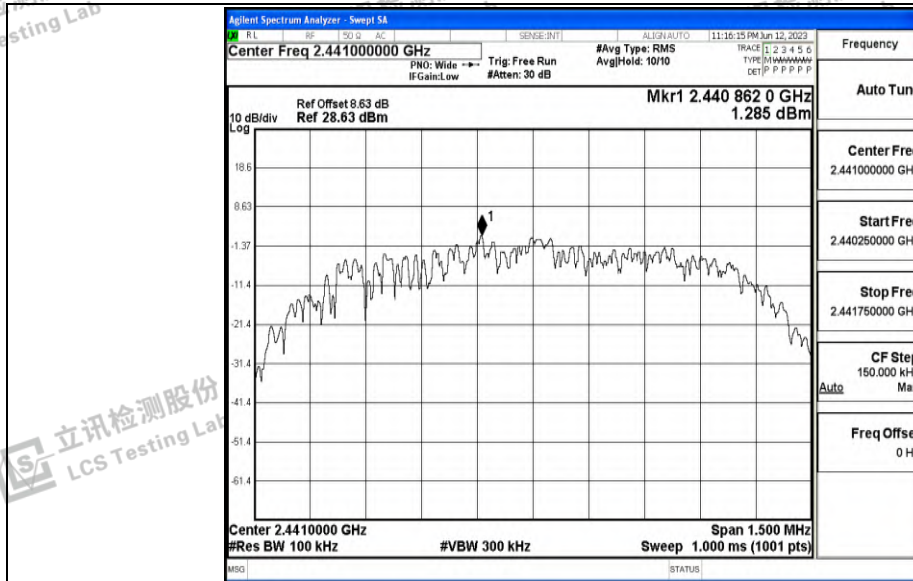
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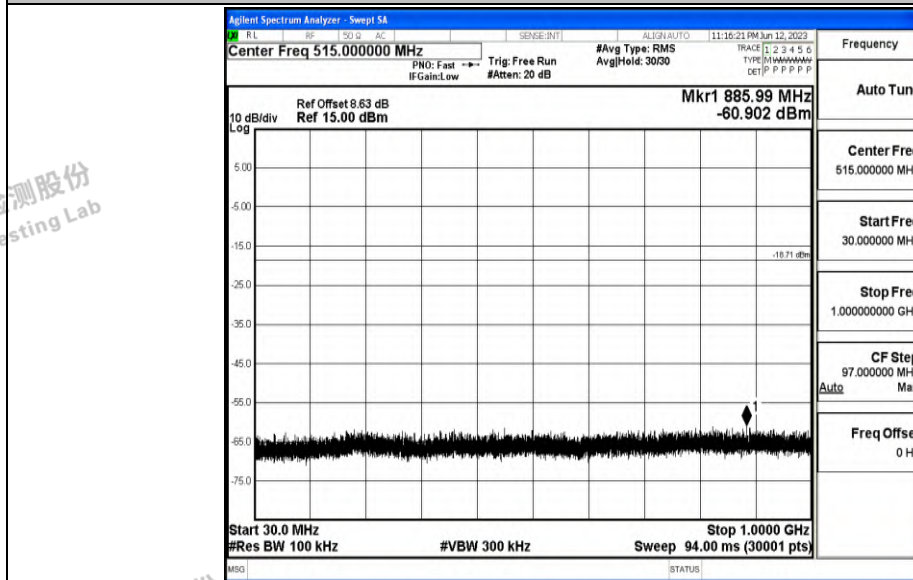
2DH5\_Ant1\_2441\_0~Reference



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2DH5\_Ant1\_2441\_30~1000

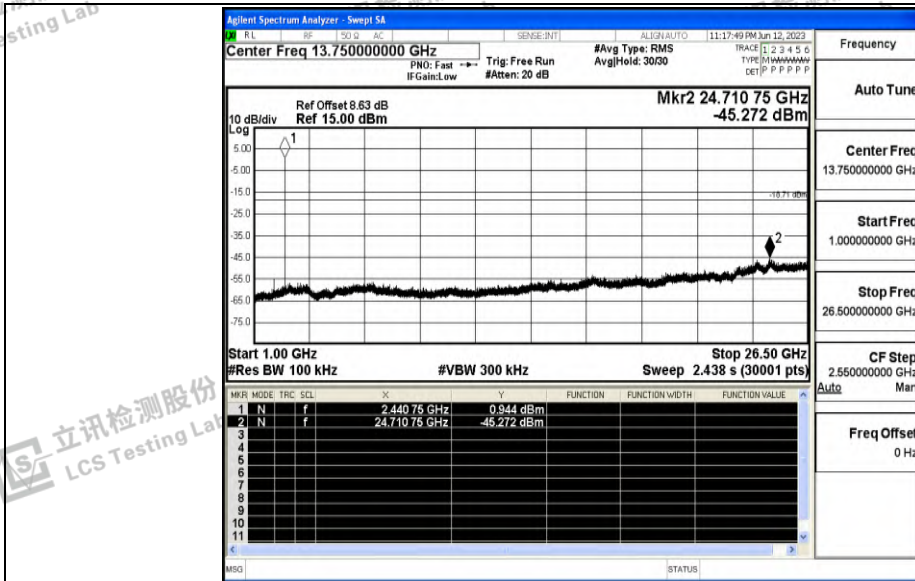


2DH5\_Ant1\_2441\_1000~26500

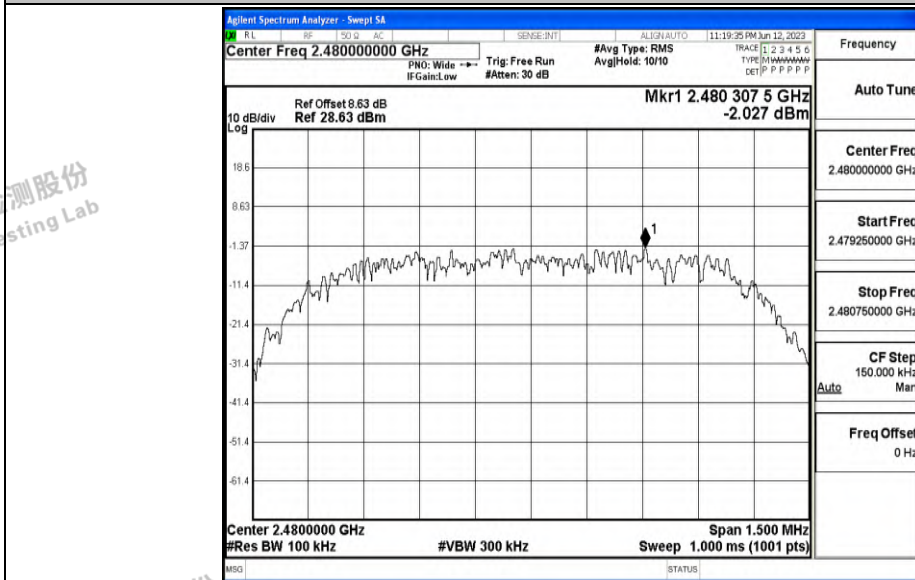


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2DH5\_Ant1\_2480\_0~Reference

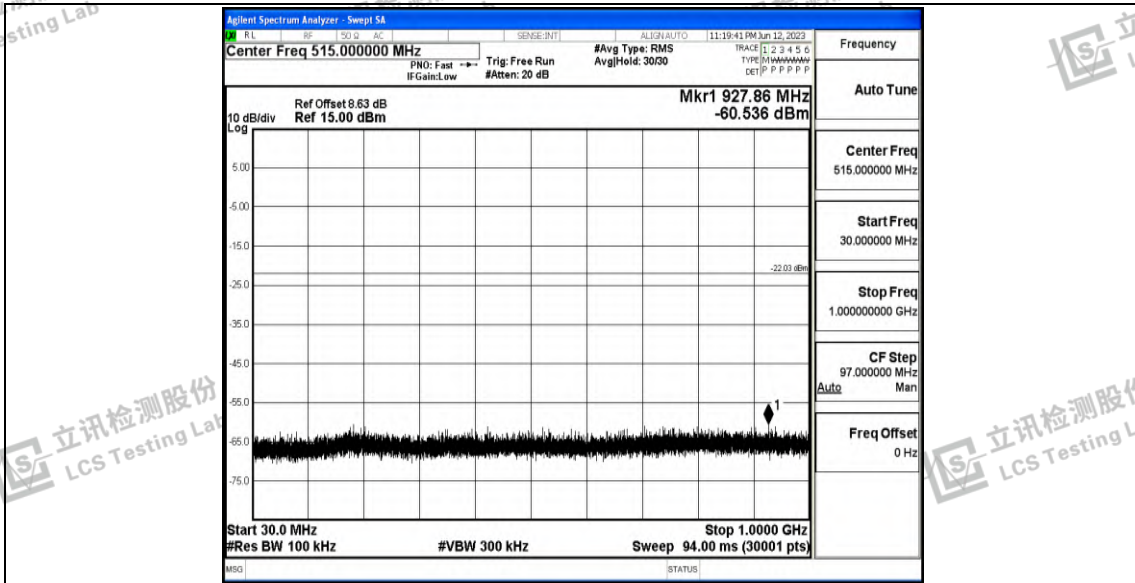


2DH5\_Ant1\_2480\_30~1000

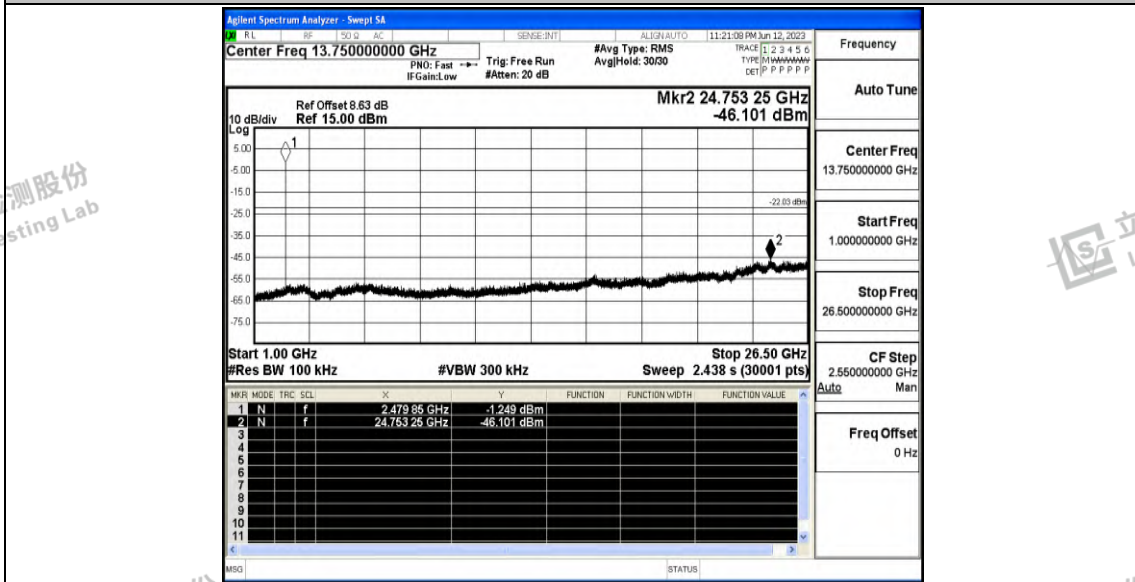


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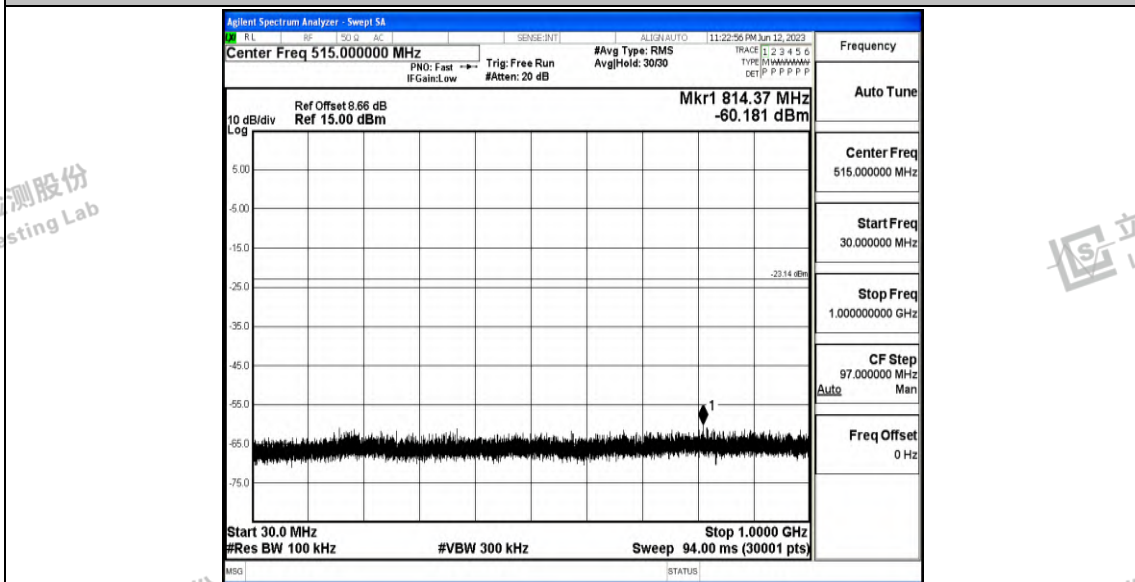
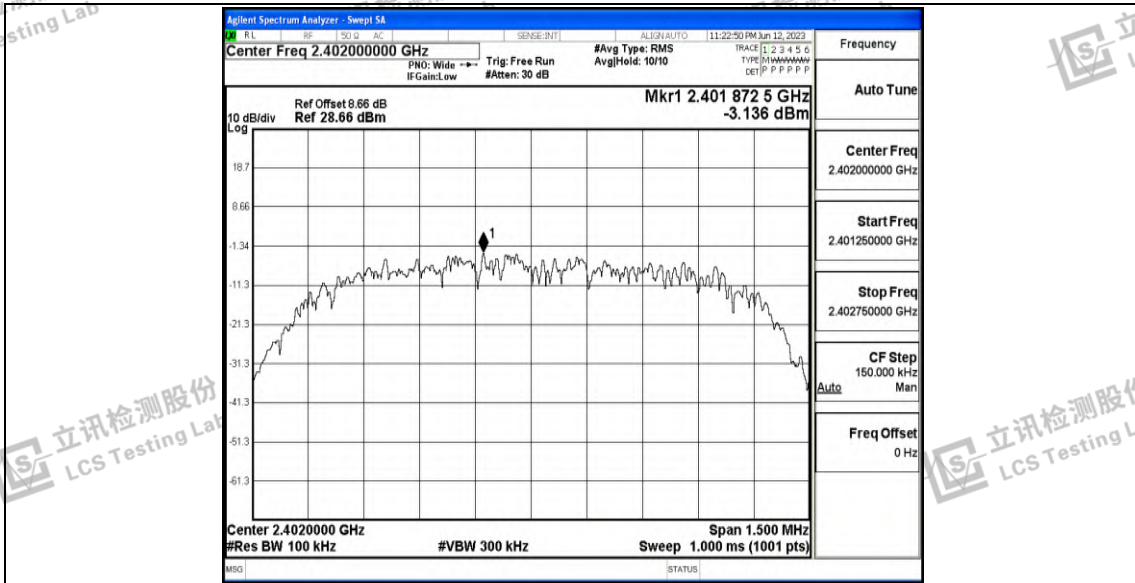
2DH5\_Ant1\_2480\_1000-26500



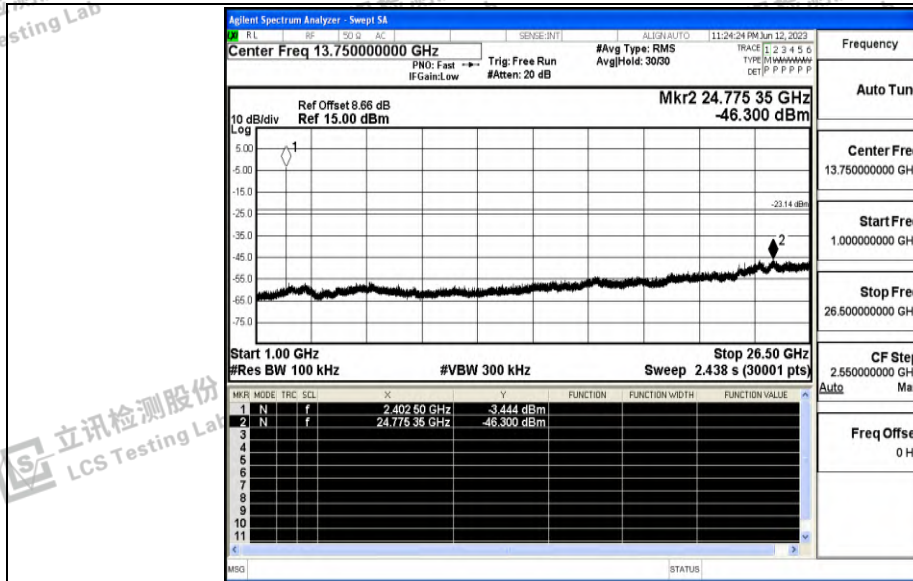
3DH5\_Ant1\_2402\_0-Reference



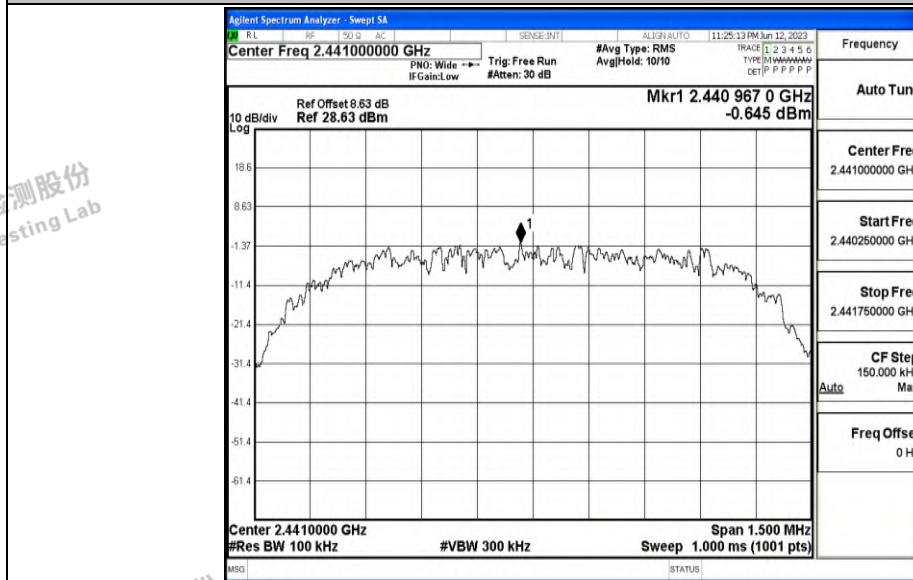
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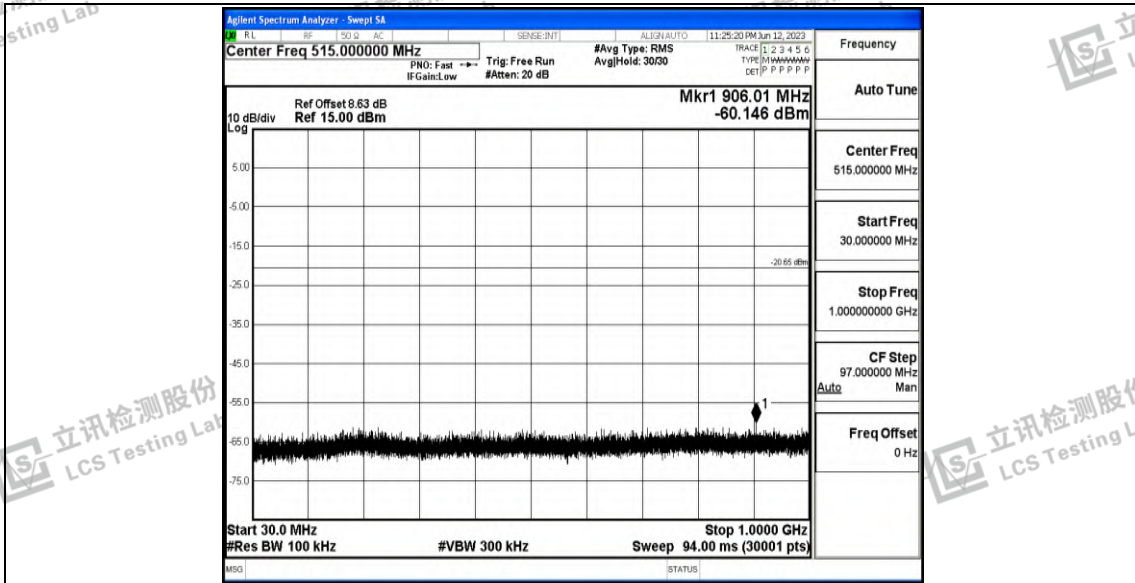
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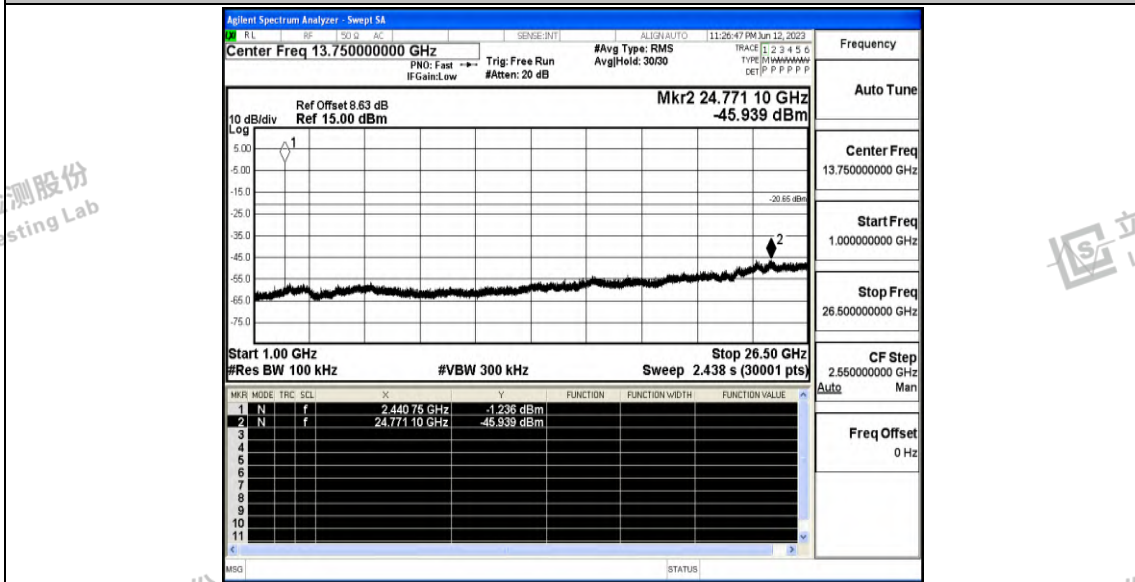
3DH5\_Ant1\_2441\_30~1000



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3DH5\_Ant1\_2441\_1000~26500

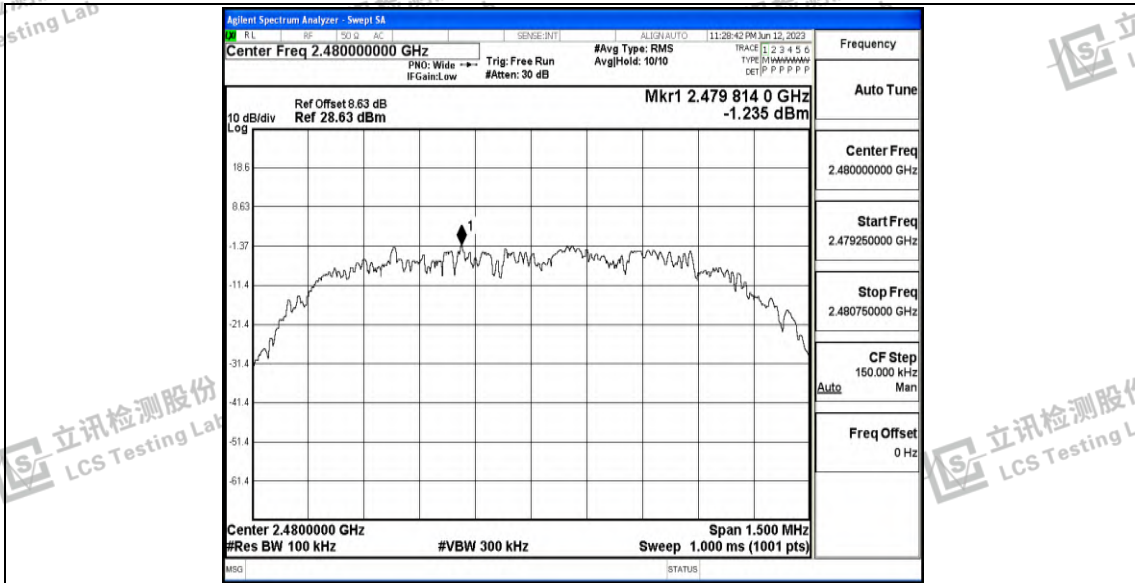


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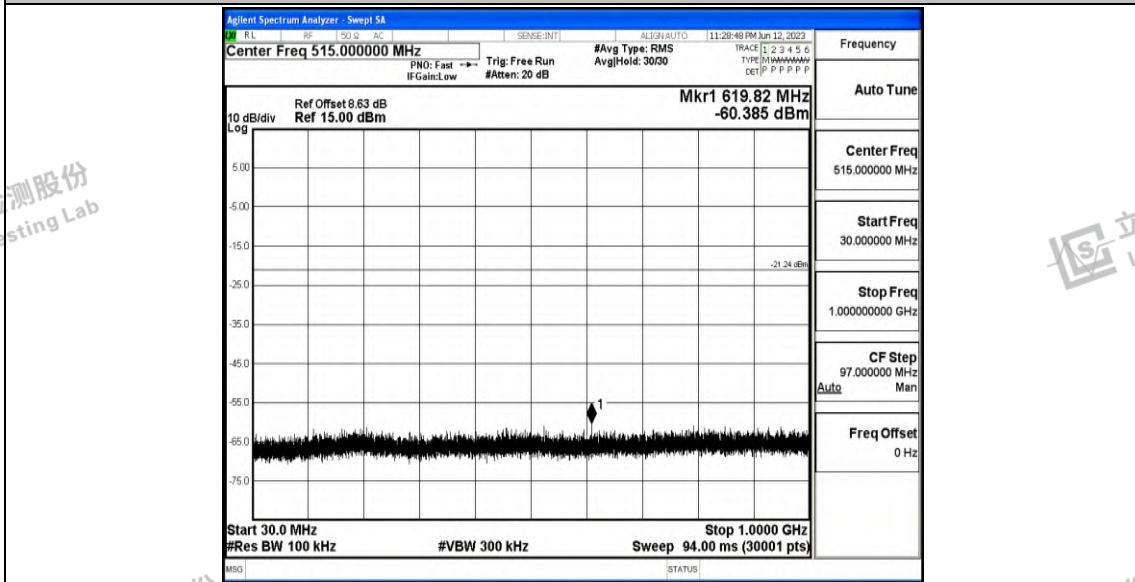


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3DH5\_Ant1\_2480\_30~1000

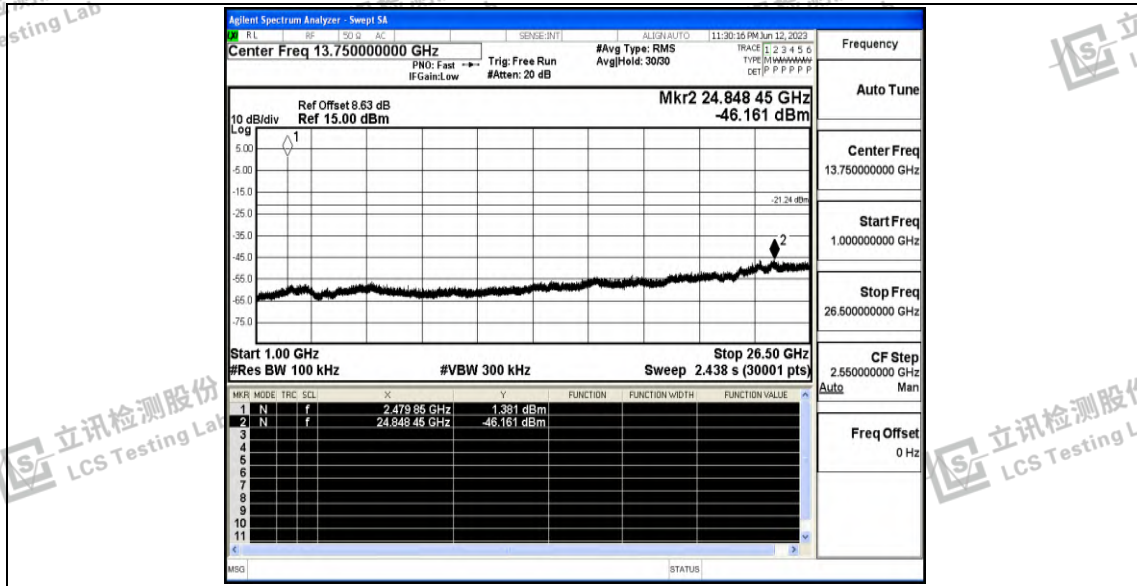


3DH5\_Ant1\_2480\_1000~26500



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## A.8 Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2387.360	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2390.000	-47.82	≤-41.20	47.38	≤54	PASS
				Peak	2310.000	-42.77	≤-21.20	52.43	≤74	PASS
				Peak	2353.445	-37.98	≤-21.20	57.22	≤74	PASS
				Peak	2390.000	-42.85	≤-21.20	52.35	≤74	PASS
		High	2480	AV	2483.500	-46.58	≤-41.20	48.62	≤54	PASS
				AV	2483.520	-46.58	≤-41.20	48.62	≤54	PASS
				AV	2500.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	2483.500	-42.36	≤-21.20	52.84	≤74	PASS
				Peak	2492.720	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2500.000	-40.65	≤-21.20	54.55	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.13	≤-21.20	55.07	≤74	PASS
				Peak	2376.230	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	2390.000	-40.77	≤-21.20	54.43	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2496.000	-37	≤-21.20	58.20	≤74	PASS
				Peak	2500.000	-38.59	≤-21.20	56.61	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2387.780	-47.77	≤-41.20	47.43	≤54	PASS
				AV	2390.000	-47.87	≤-41.20	47.33	≤54	PASS
				Peak	2310.000	-42.18	≤-21.20	53.02	≤74	PASS
				Peak	2337.695	-38.52	≤-21.20	56.68	≤74	PASS
				Peak	2390.000	-42.08	≤-21.20	53.12	≤74	PASS
		High	2480	AV	2483.500	-46.36	≤-41.20	48.84	≤54	PASS
				AV	2483.520	-46.36	≤-41.20	48.84	≤54	PASS
				AV	2500.000	-47.35	≤-41.20	47.85	≤54	PASS
				Peak	2483.500	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2495.280	-38.2	≤-21.20	57.00	≤74	PASS
				Peak	2500.000	-42.07	≤-21.20	53.13	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2326.460	-37.64	≤-21.20	57.56	≤74	PASS
				Peak	2390.000	-40.14	≤-21.20	55.06	≤74	PASS



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3DH5	Ant1	High	Hop_2480	Peak	2483.500	-39.43	$\leq -21.20$	55.77	$\leq 74$	PASS
		Peak		2487.840	-36.05	$\leq -21.20$	59.15	$\leq 74$	PASS	
		Peak		2500.000	-39.17	$\leq -21.20$	56.03	$\leq 74$	PASS	
	Ant1	Low	2402	AV	2310.000	-48.3	$\leq -41.20$	46.90	$\leq 54$	PASS
				AV	2389.670	-47.55	$\leq -41.20$	47.65	$\leq 54$	PASS
				AV	2390.000	-47.82	$\leq -41.20$	47.38	$\leq 54$	PASS
				Peak	2310.000	-41.33	$\leq -21.20$	53.87	$\leq 74$	PASS
				Peak	2380.955	-38.04	$\leq -21.20$	57.16	$\leq 74$	PASS
				Peak	2390.000	-42.07	$\leq -21.20$	53.13	$\leq 74$	PASS
		High	2480	AV	2483.500	-46.35	$\leq -41.20$	48.85	$\leq 54$	PASS
				AV	2483.520	-46.35	$\leq -41.20$	48.85	$\leq 54$	PASS
				AV	2500.000	-47.3	$\leq -41.20$	47.90	$\leq 54$	PASS
				Peak	2483.500	-41.54	$\leq -21.20$	53.66	$\leq 74$	PASS
				Peak	2492.800	-38.08	$\leq -21.20$	57.12	$\leq 74$	PASS
				Peak	2500.000	-40.48	$\leq -21.20$	54.72	$\leq 74$	PASS
	Low	Hop_2402	Peak	2310.000	-39.83	$\leq -21.20$	55.37	$\leq 74$	PASS	
			Peak	2316.695	-37.74	$\leq -21.20$	57.46	$\leq 74$	PASS	
			Peak	2390.000	-40.36	$\leq -21.20$	54.84	$\leq 74$	PASS	
	High	Hop_2480	Peak	2483.500	-38.03	$\leq -21.20$	57.17	$\leq 74$	PASS	
			Peak	2484.800	-37.19	$\leq -21.20$	58.01	$\leq 74$	PASS	
			Peak	2500.000	-37.9	$\leq -21.20$	57.30	$\leq 74$	PASS	

## Note:

1. The Antenna Gain 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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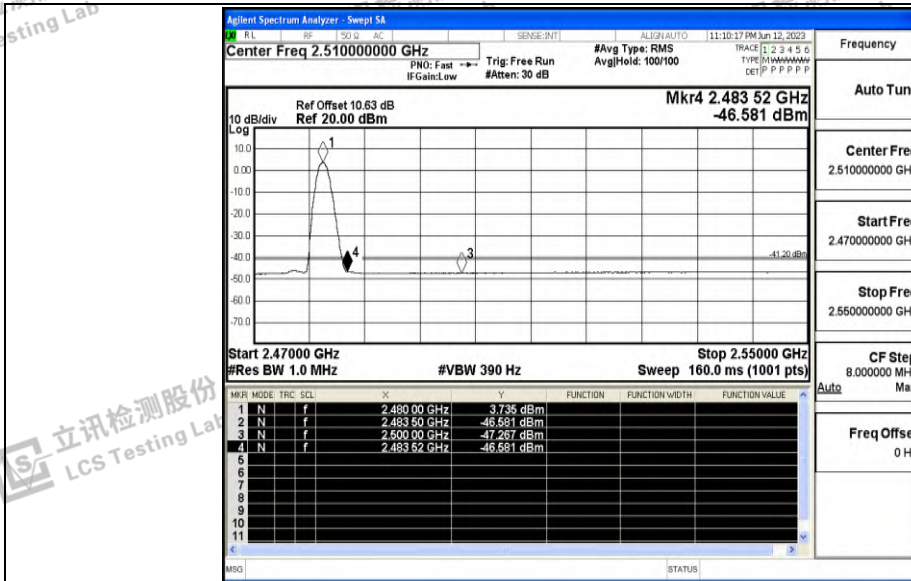


### Test Graphs

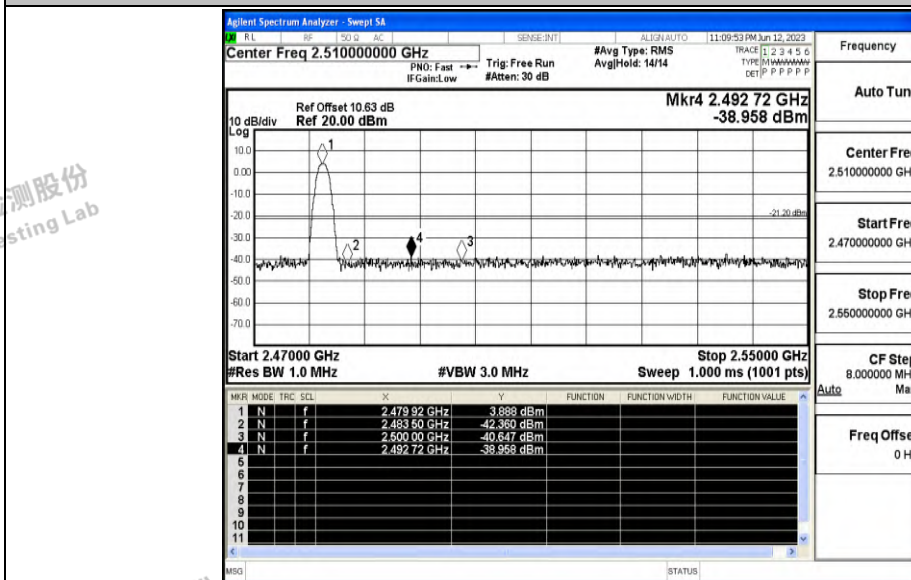


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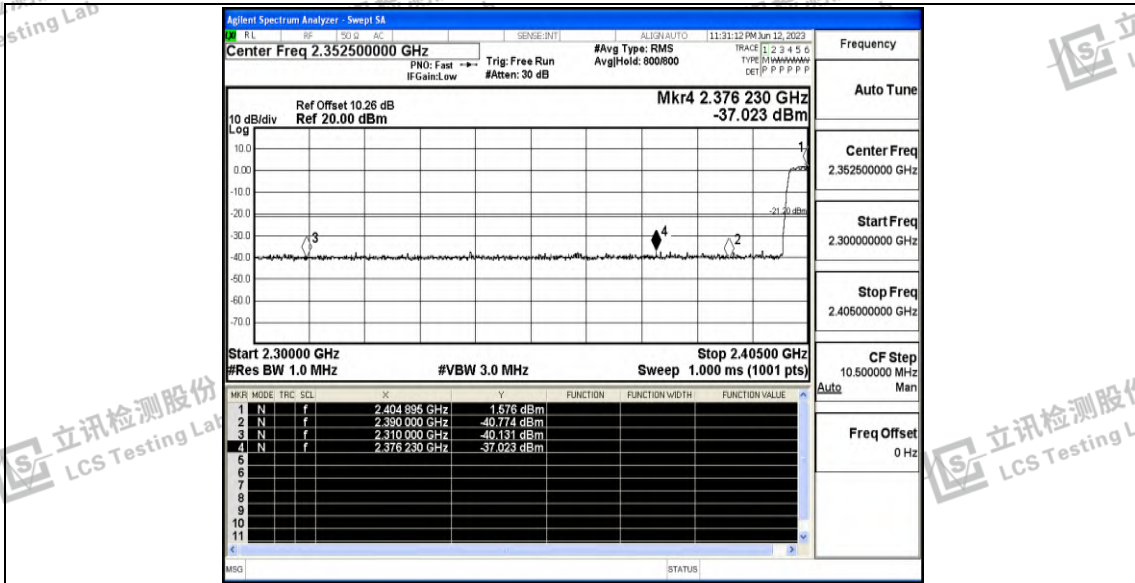
DH5\_Ant1\_High\_2480\_Peak



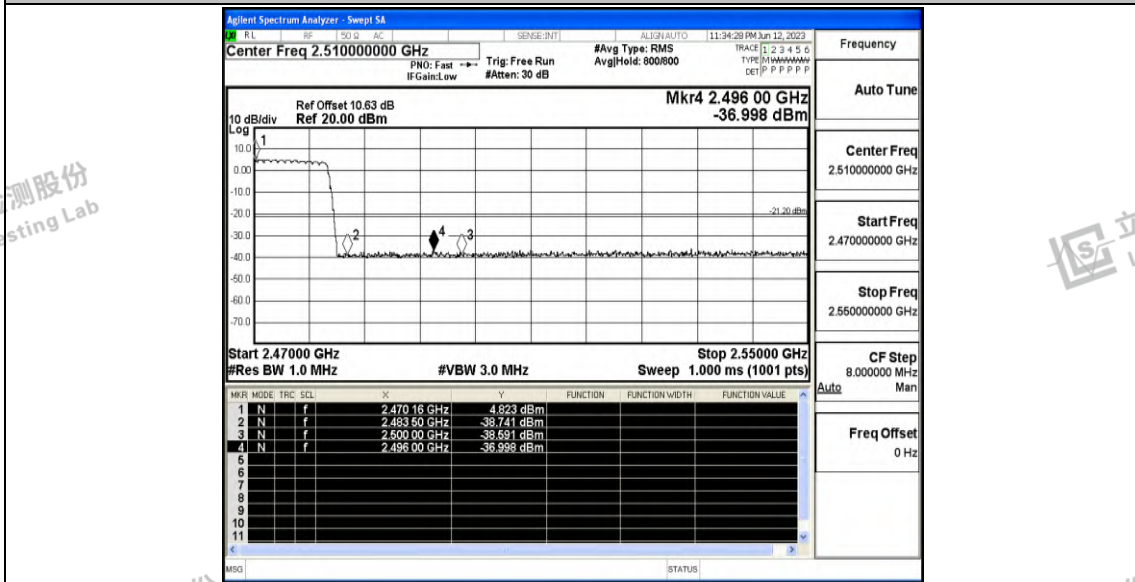
DH5\_Ant1\_Low\_Hop\_2402\_Peak



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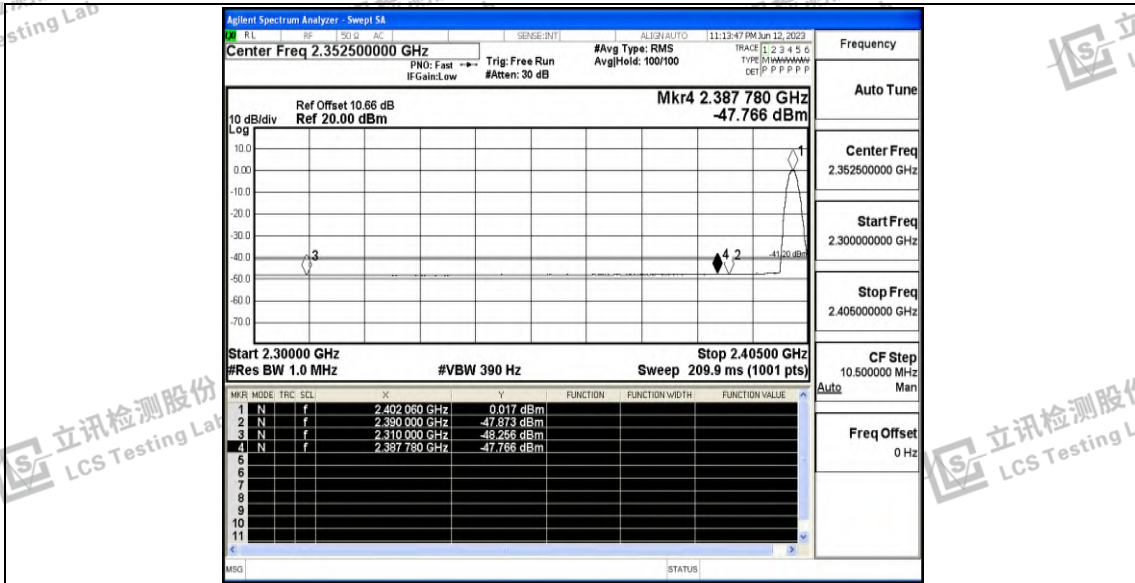
DH5\_Ant1\_High\_Hop\_2480\_Peak



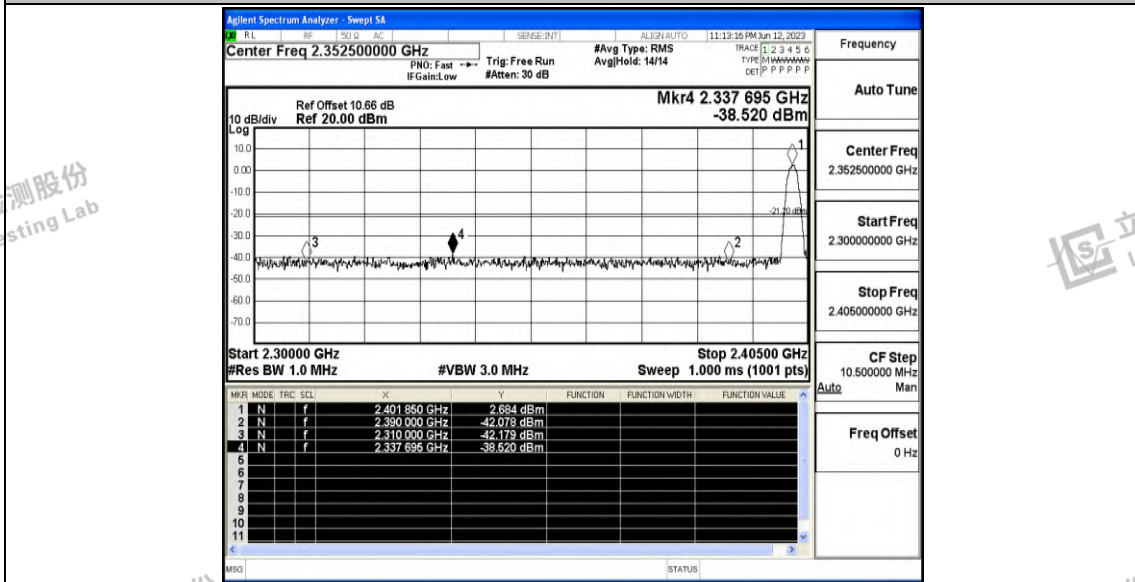
2DH5\_Ant1\_Low\_2402\_AV



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2DH5\_Ant1\_Low\_2402\_Peak

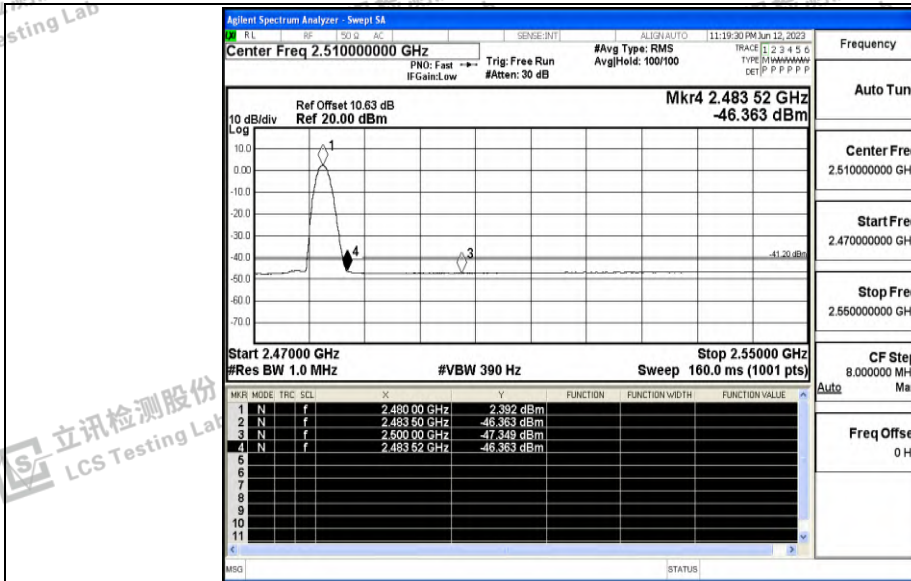


2DH5\_Ant1\_High\_2480\_AV

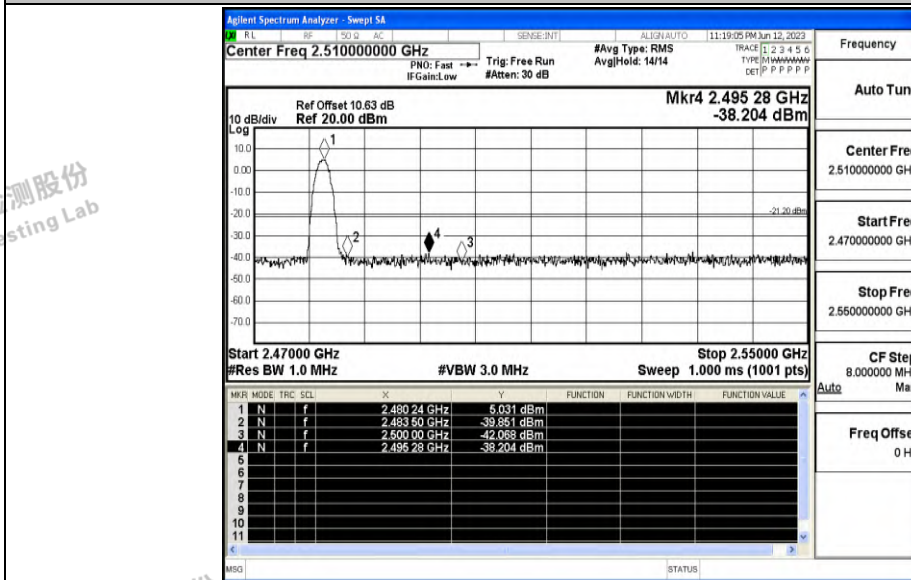


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2DH5\_Ant1\_High\_2480\_Peak

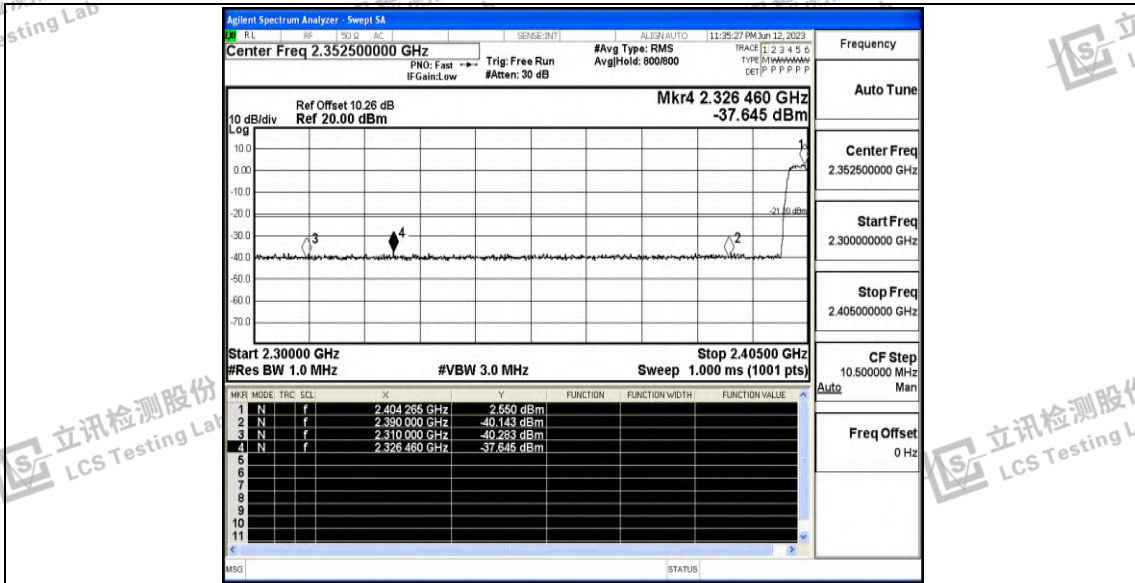


2DH5\_Ant1\_Low\_Hop\_2402\_Peak

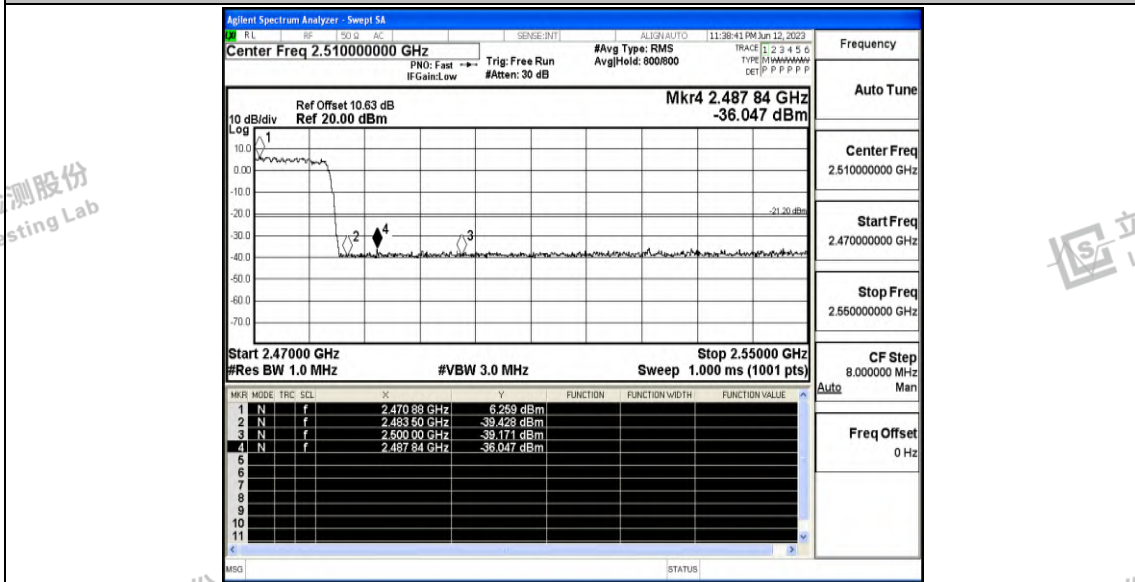


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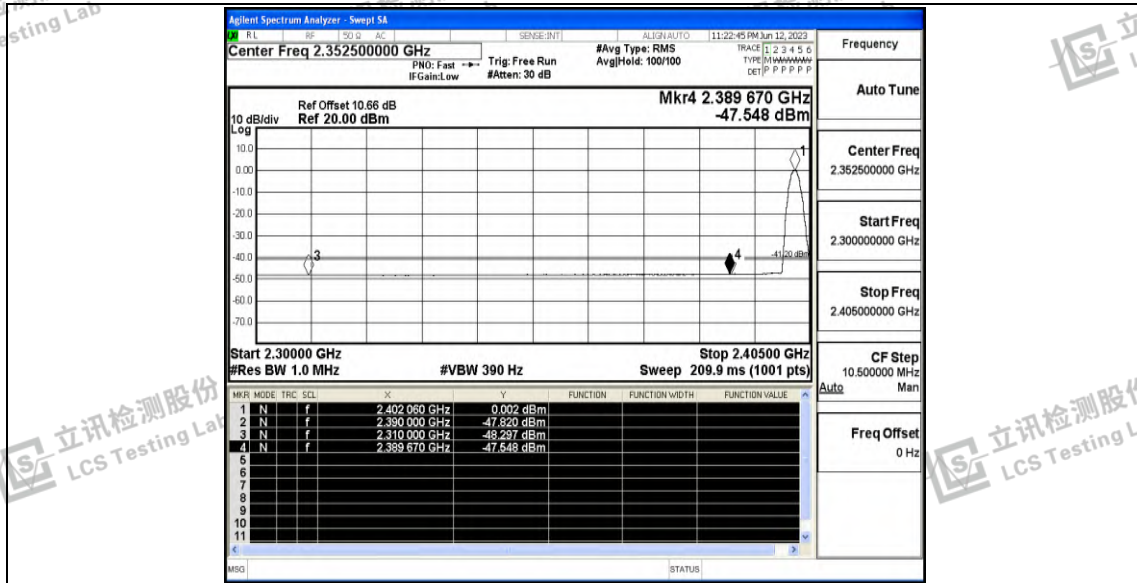
2DH5\_Ant1\_High\_Hop\_2480\_Peak



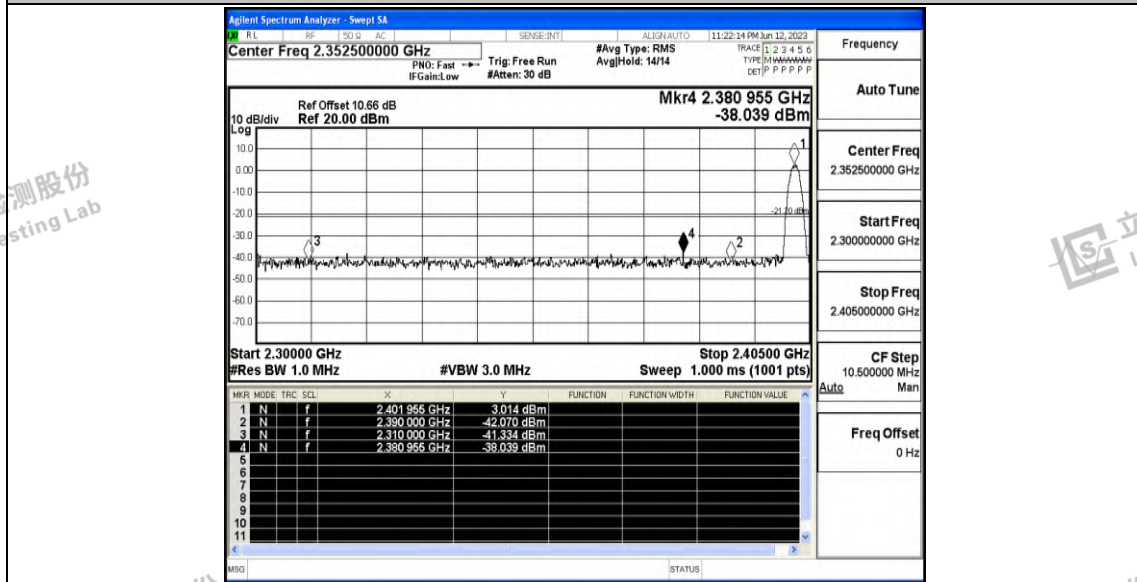
3DH5\_Ant1\_Low\_2402\_AV



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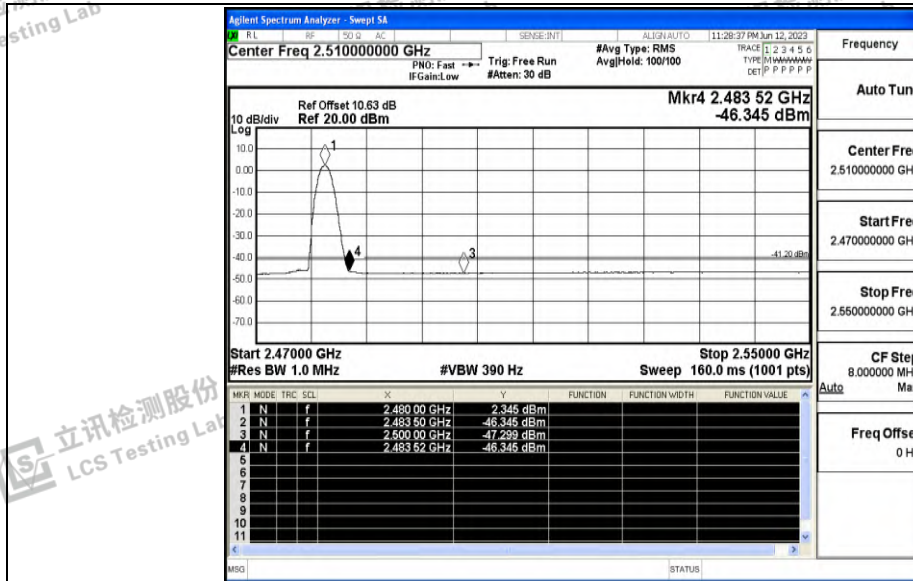
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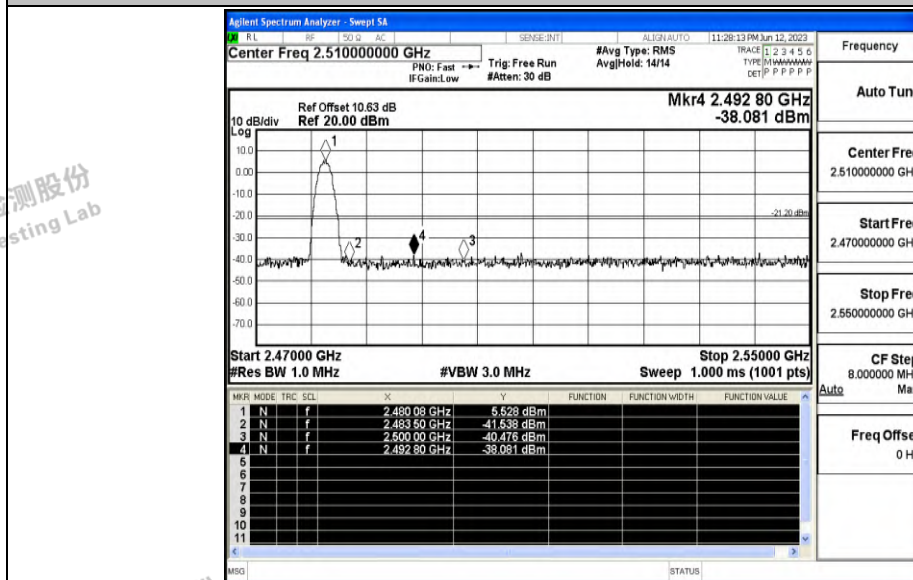
3DH5\_Ant1\_High\_2480\_AV



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3DH5\_Ant1\_High\_2480\_Peak

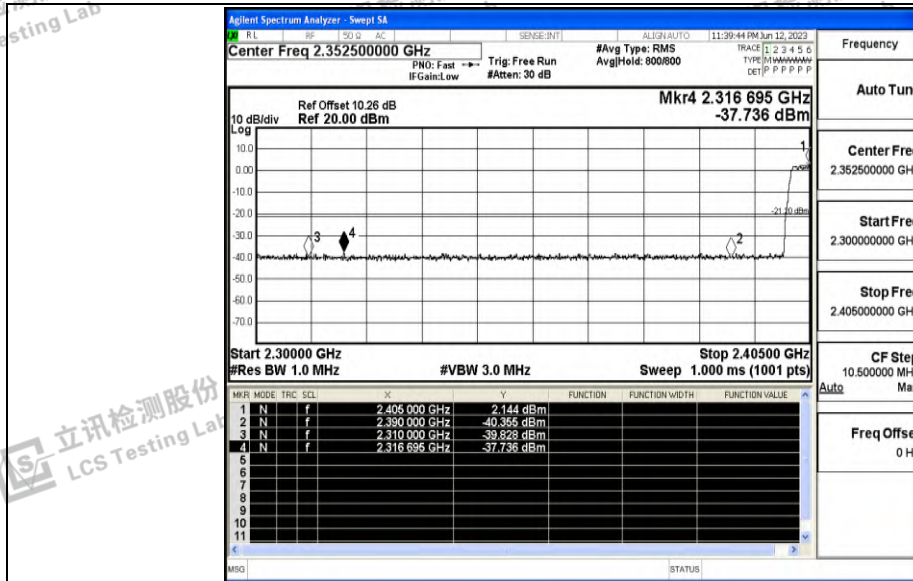


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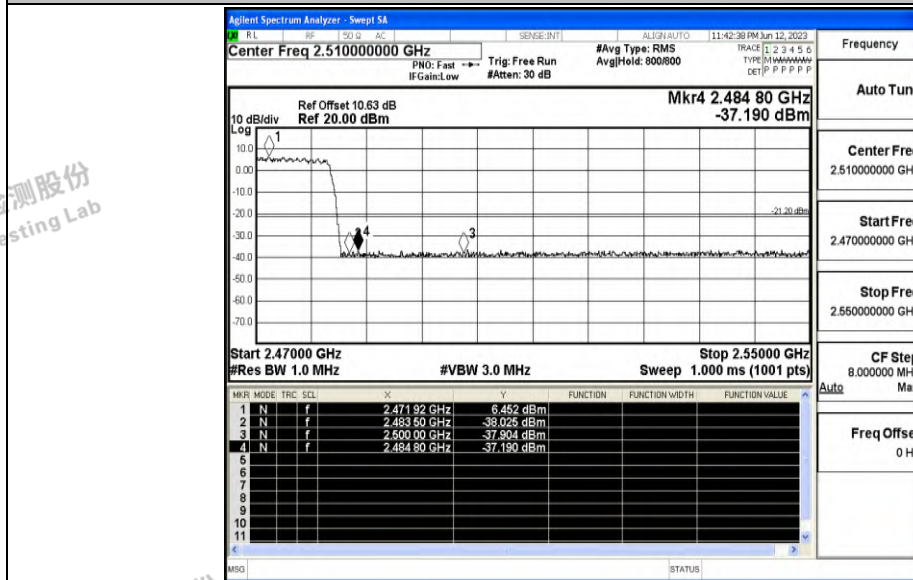


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3DH5\_Ant1\_High\_Hop\_2480\_Peak



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