



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: wake up light

Test Model: FZ06

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor 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	0.987	2401.508	2402.495	---	PASS
		2441	1.041	2440.460	2441.501	---	PASS
		2480	0.978	2479.523	2480.501	---	PASS
2DH5	Ant1	2402	1.287	2401.355	2402.642	---	PASS
		2441	1.278	2440.364	2441.642	---	PASS
		2480	1.293	2479.352	2480.645	---	PASS
3DH5	Ant1	2402	1.299	2401.340	2402.639	---	PASS
		2441	1.296	2440.337	2441.633	---	PASS
		2480	1.299	2479.337	2480.636	---	PASS



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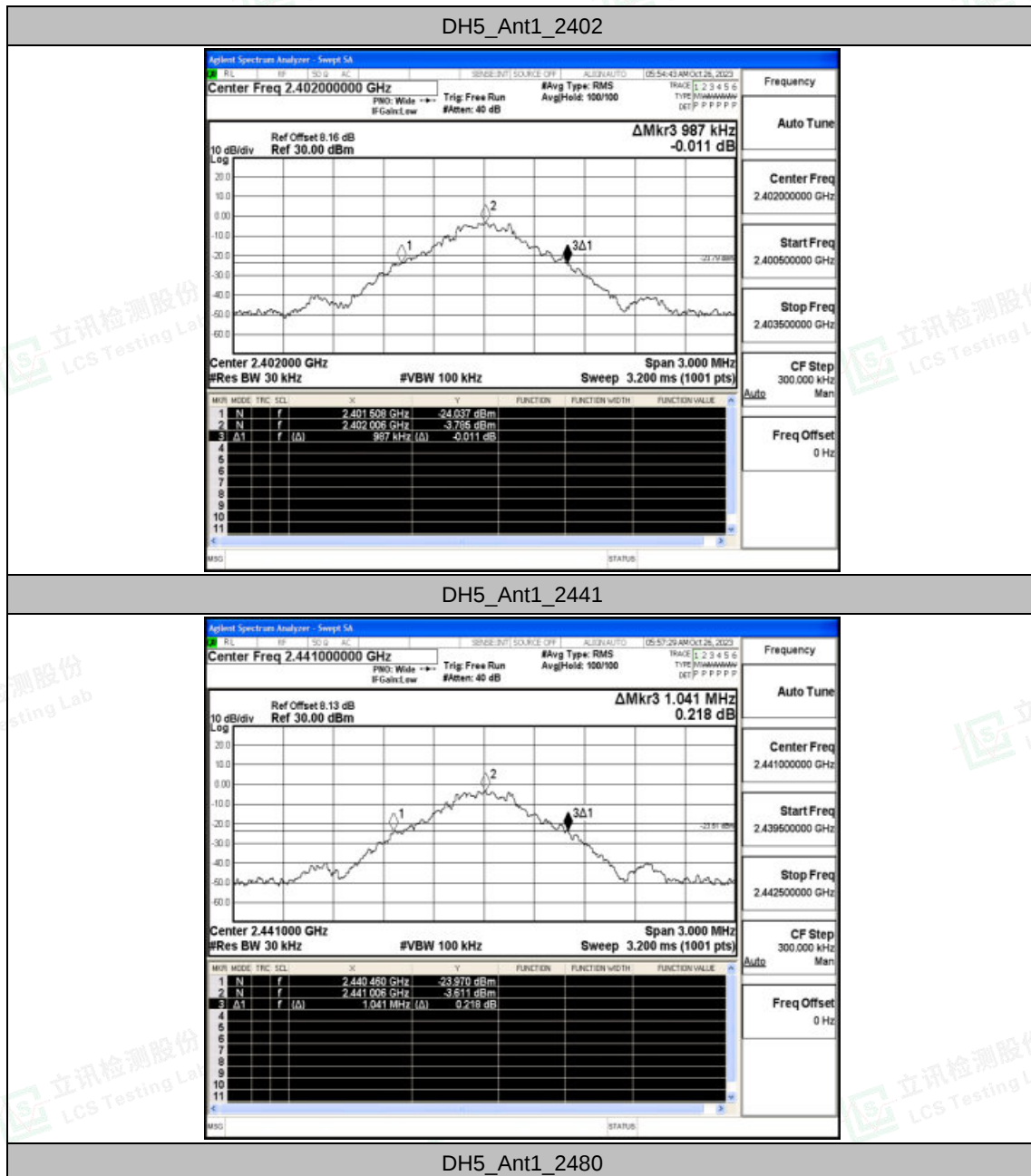
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Test Graphs

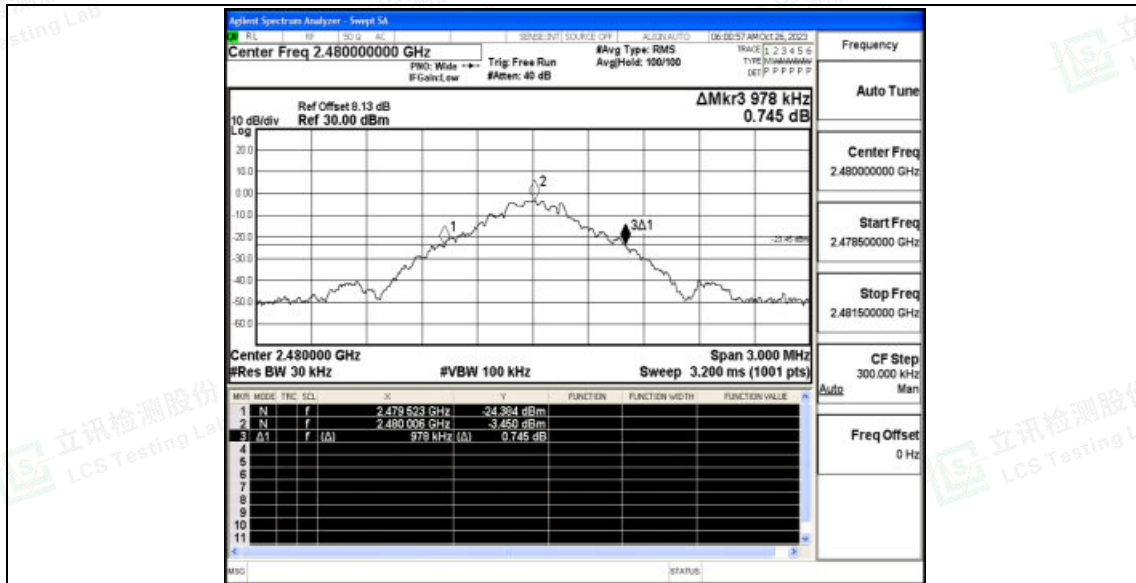


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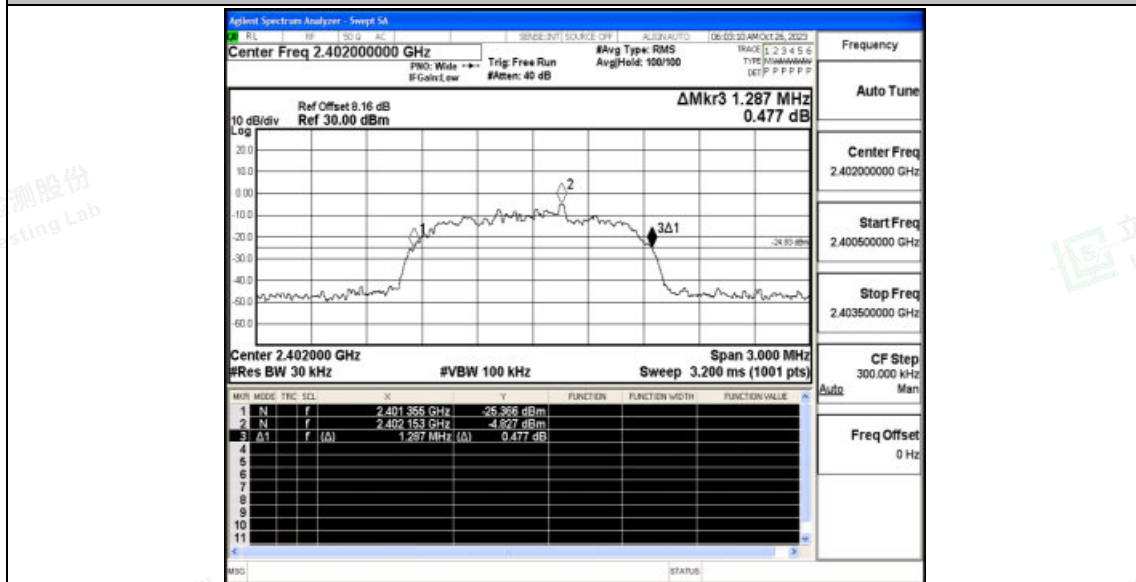
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2DH5_Ant1_2402



2DH5_Ant1_2441

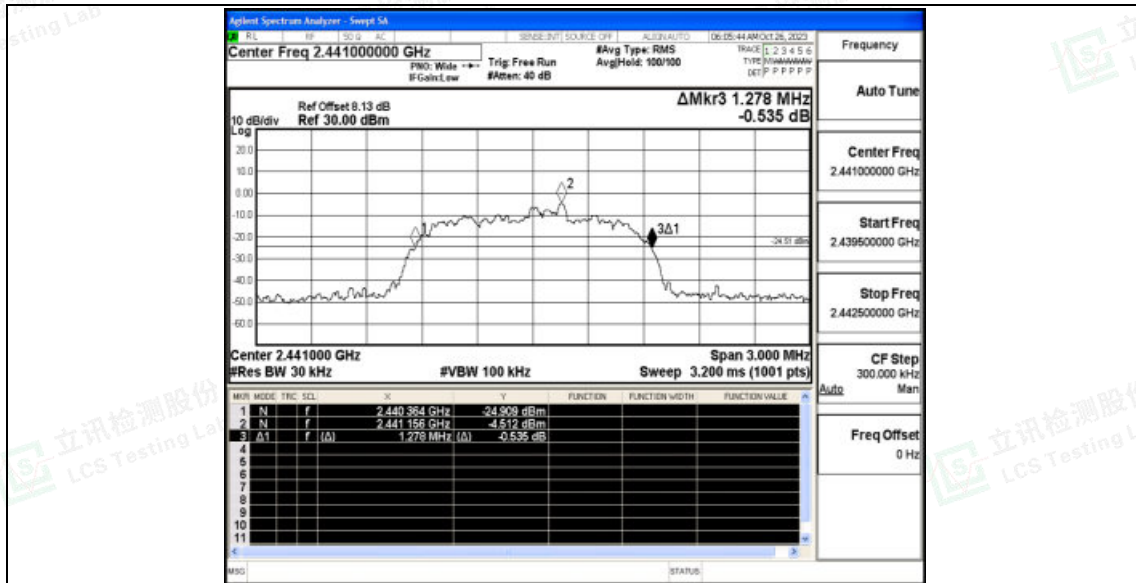


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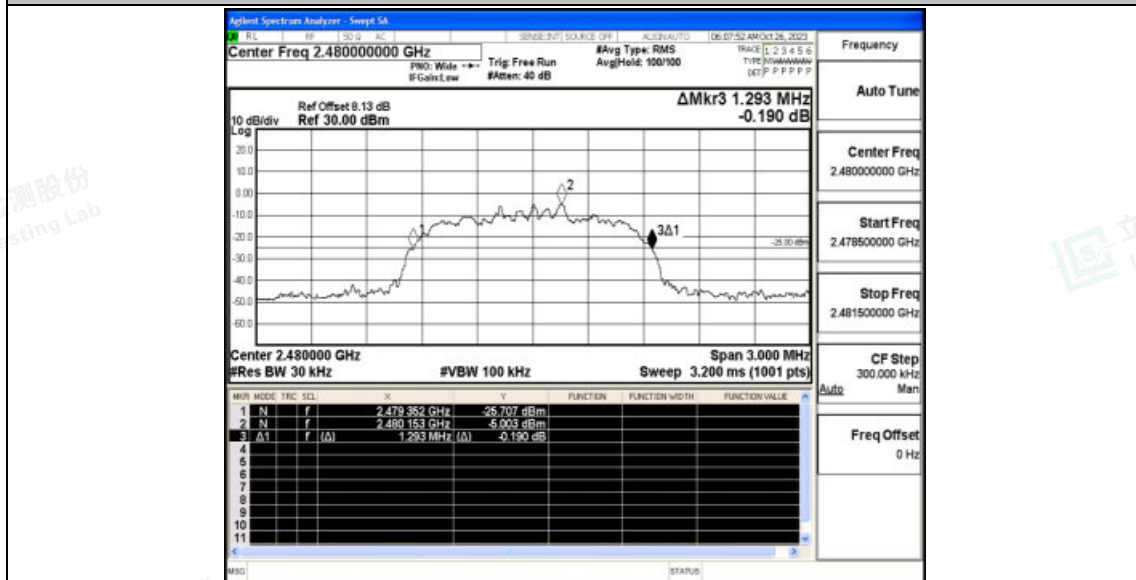
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2DH5_Ant1_2480



3DH5_Ant1_2402

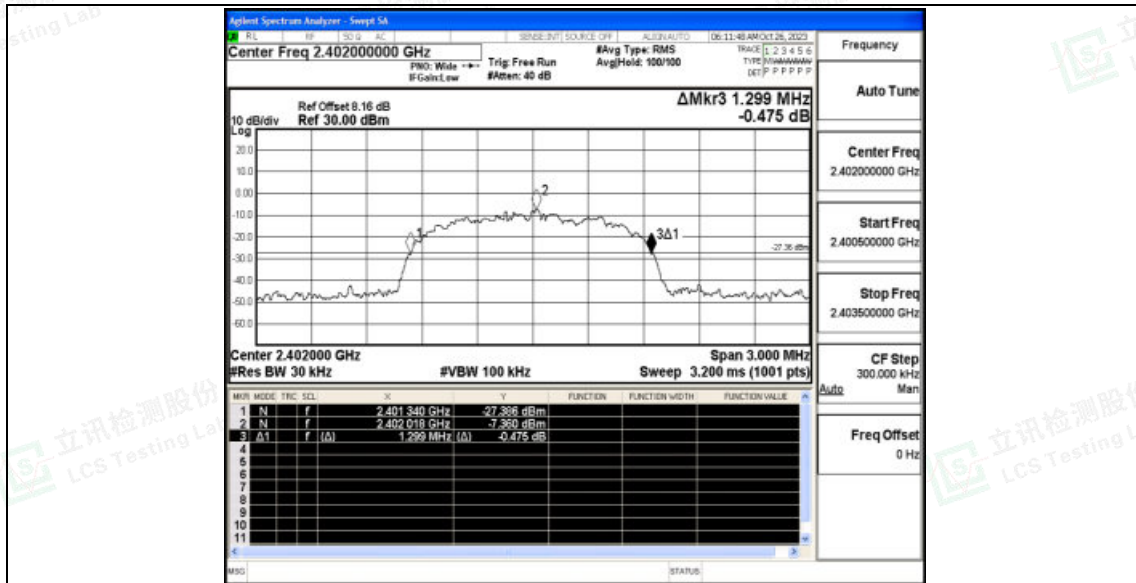


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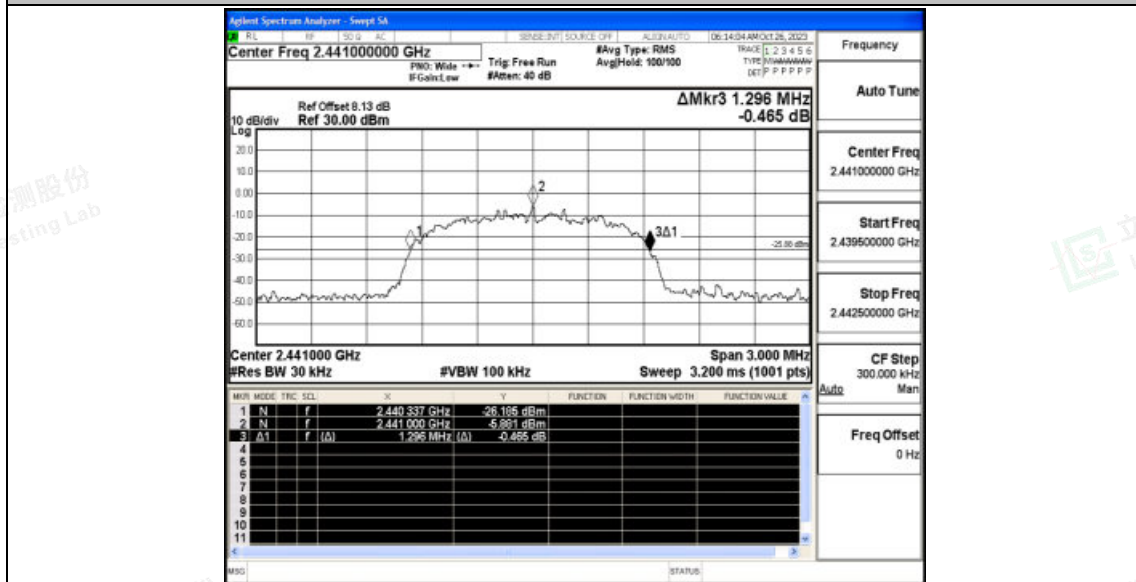
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3DH5_Ant1_2441



3DH5_Ant1_2480

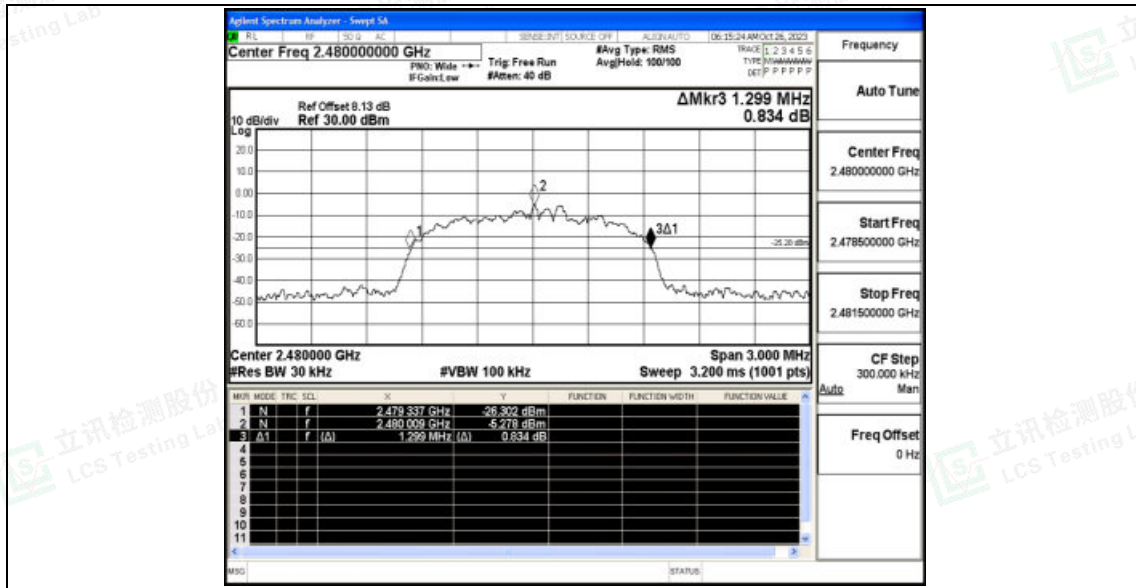


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A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-0.48	≤20.97	PASS
		2480	-0.01	≤20.97	PASS
2DH5	Ant1	2402	-0.70	≤20.97	PASS
		2441	-0.49	≤20.97	PASS
		2480	-0.27	≤20.97	PASS
3DH5	Ant1	2402	-0.70	≤20.97	PASS
		2441	-0.37	≤20.97	PASS
		2480	-0.39	≤20.97	PASS



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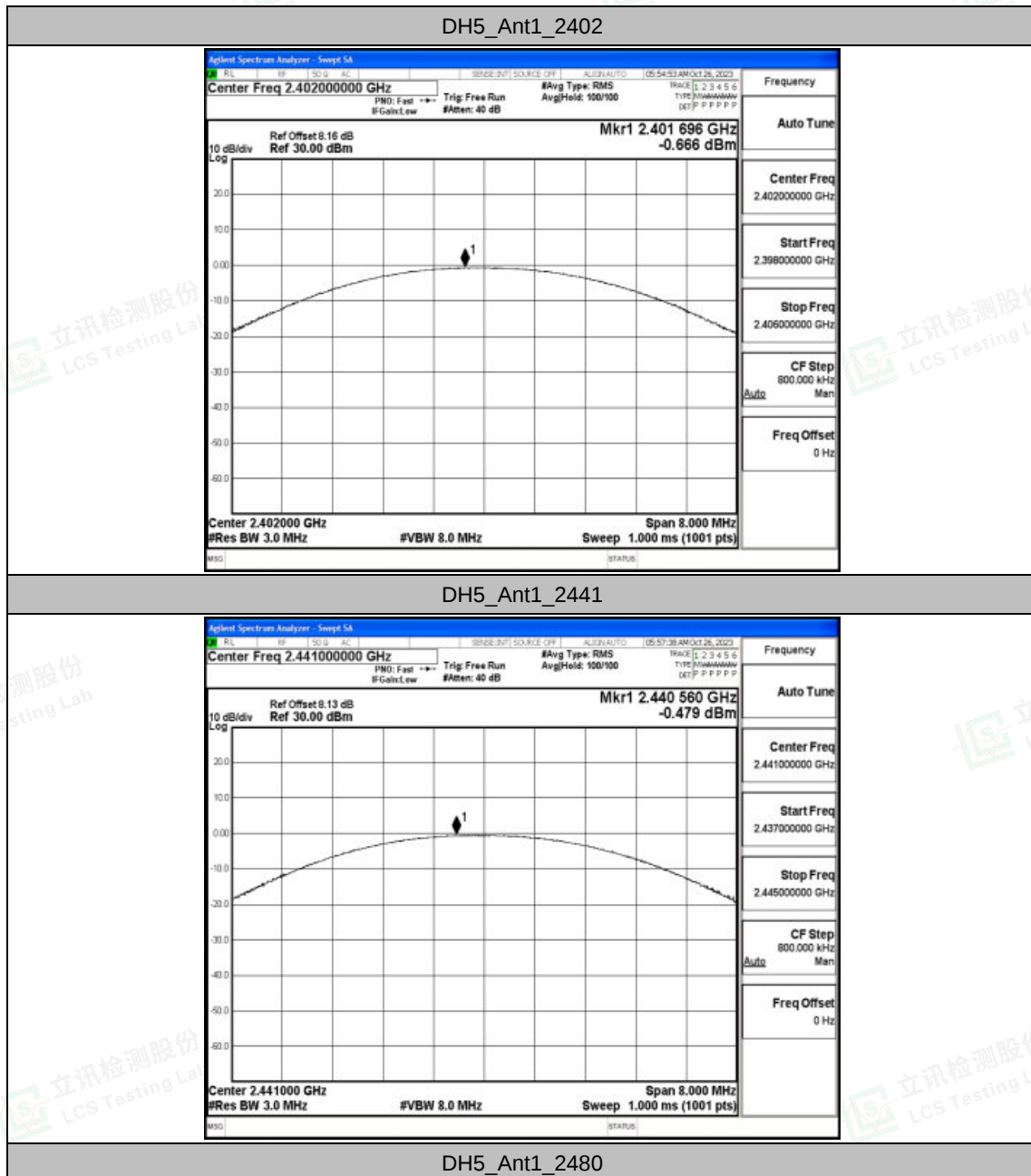
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Test Graphs

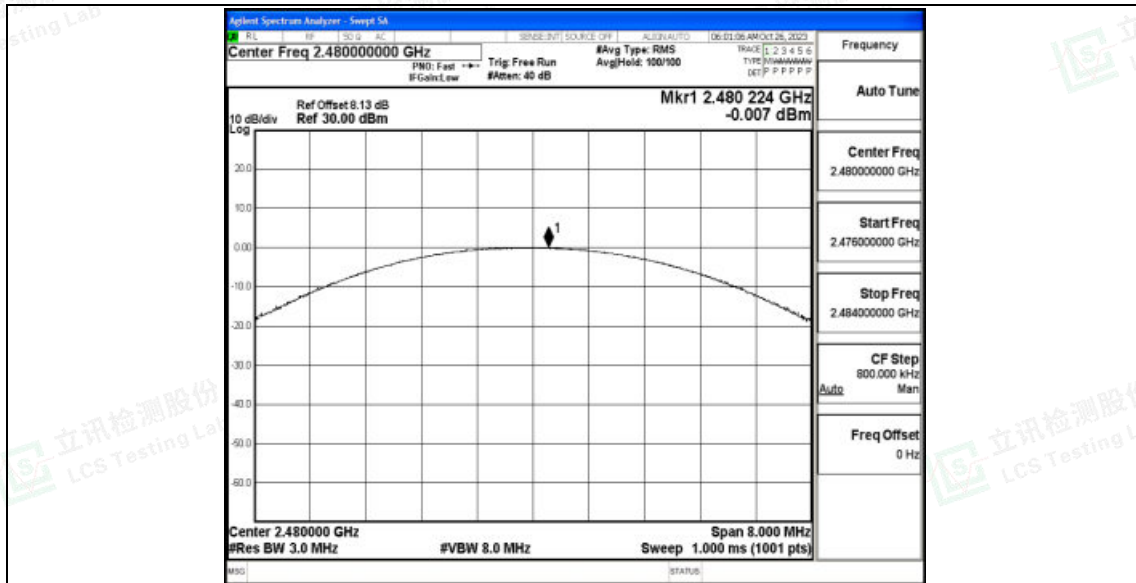


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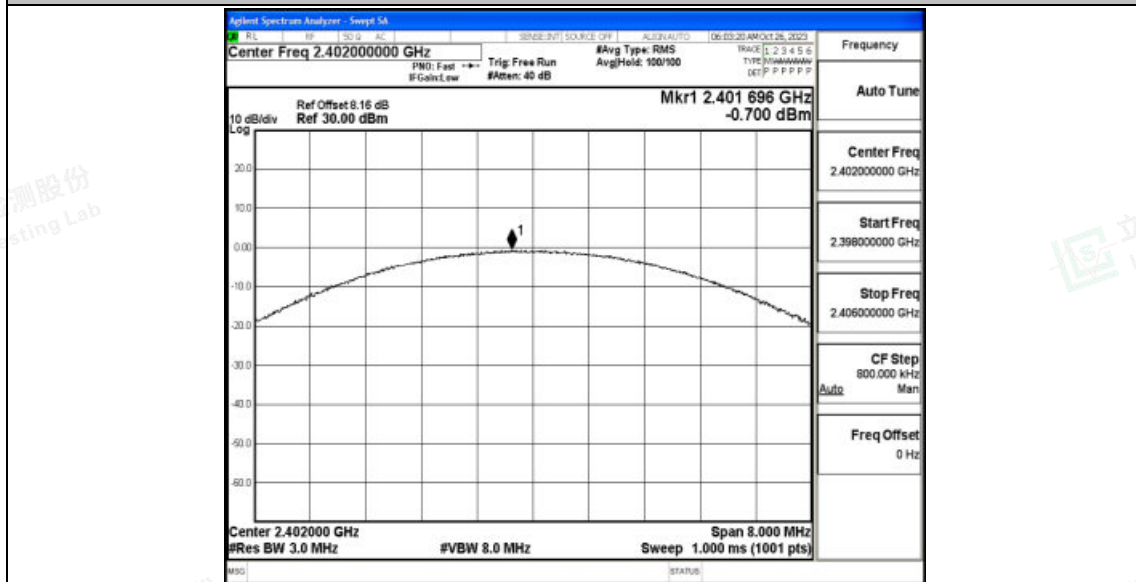
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2DH5_Ant1_2402



2DH5_Ant1_2441

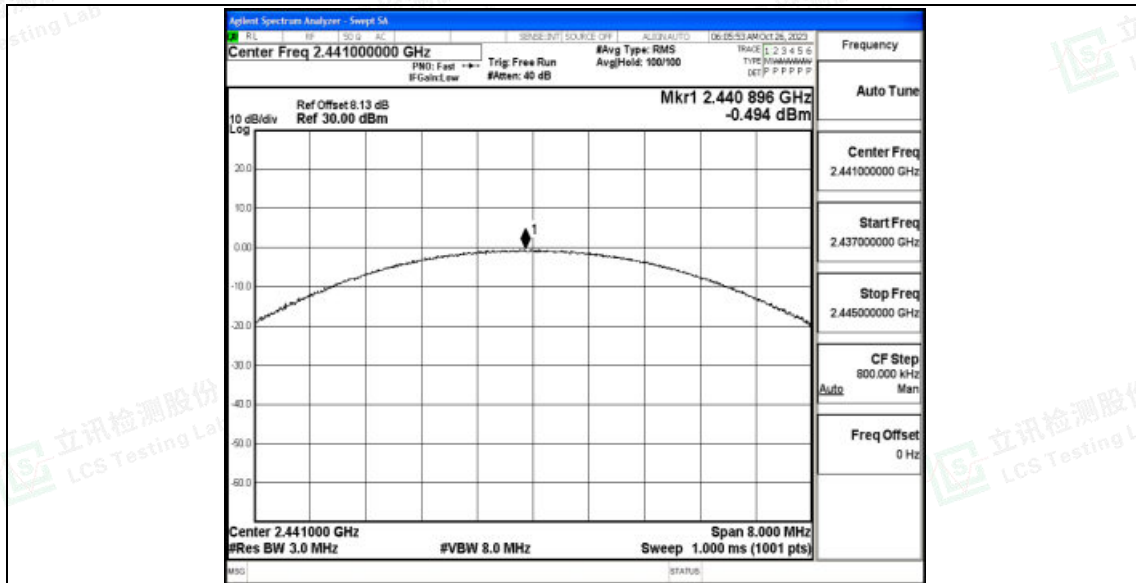


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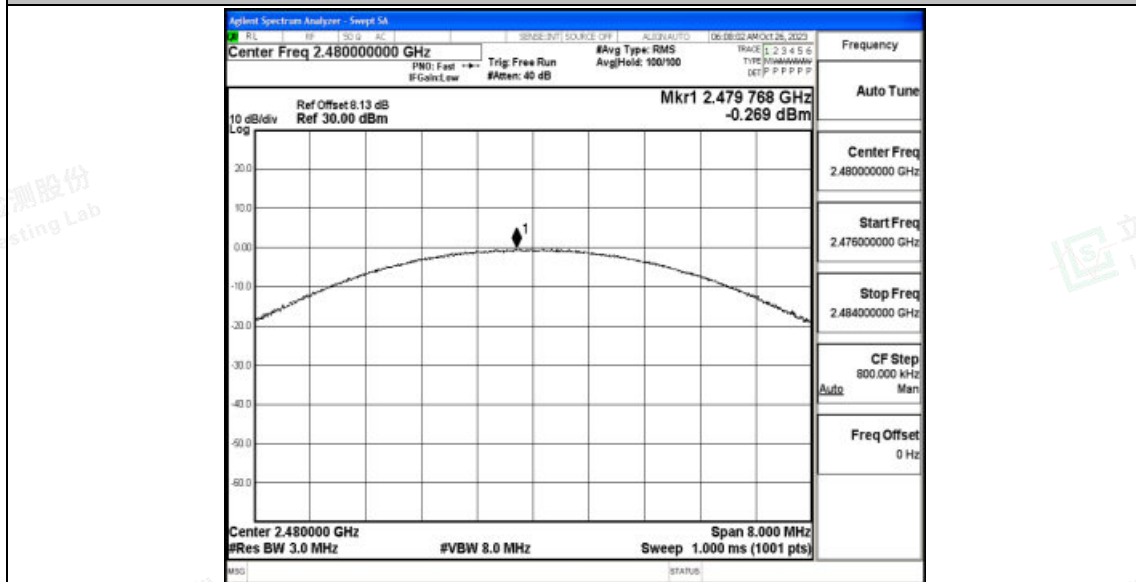
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2DH5_Ant1_2480



3DH5_Ant1_2402

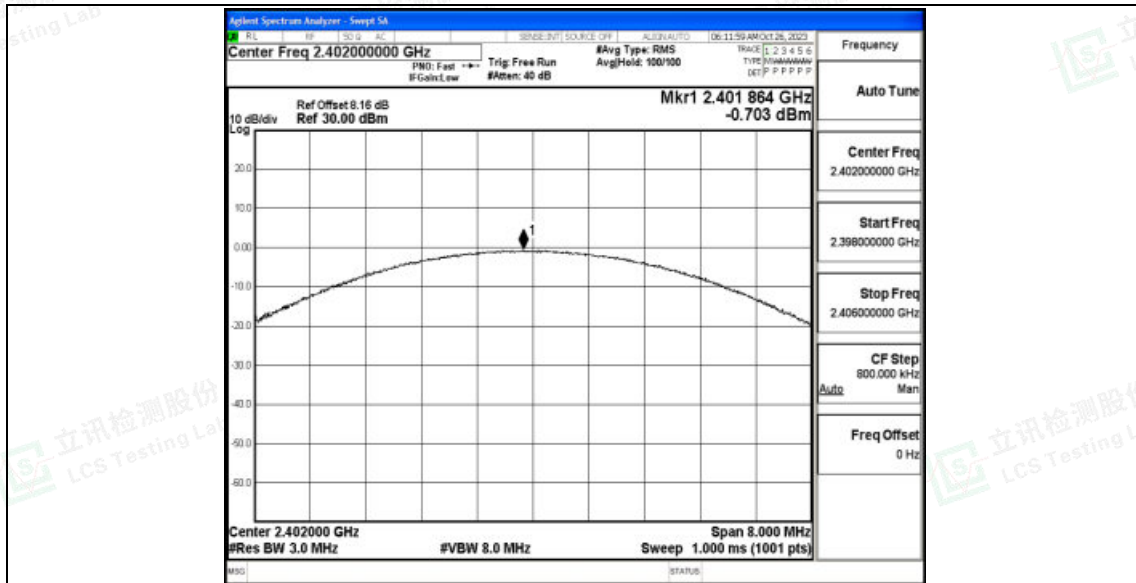


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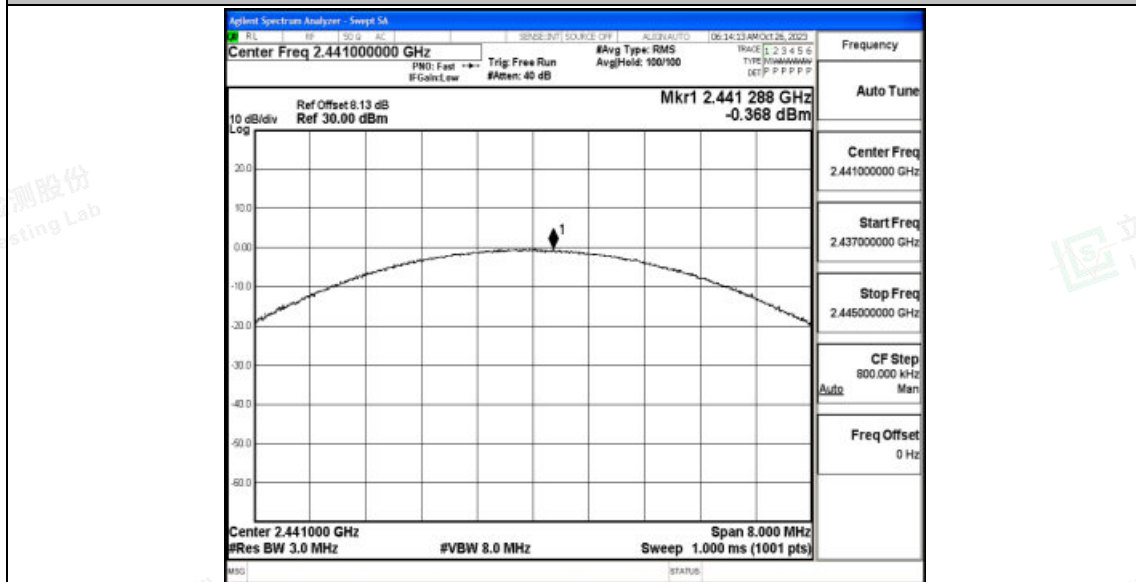
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3DH5_Ant1_2441



3DH5_Ant1_2480

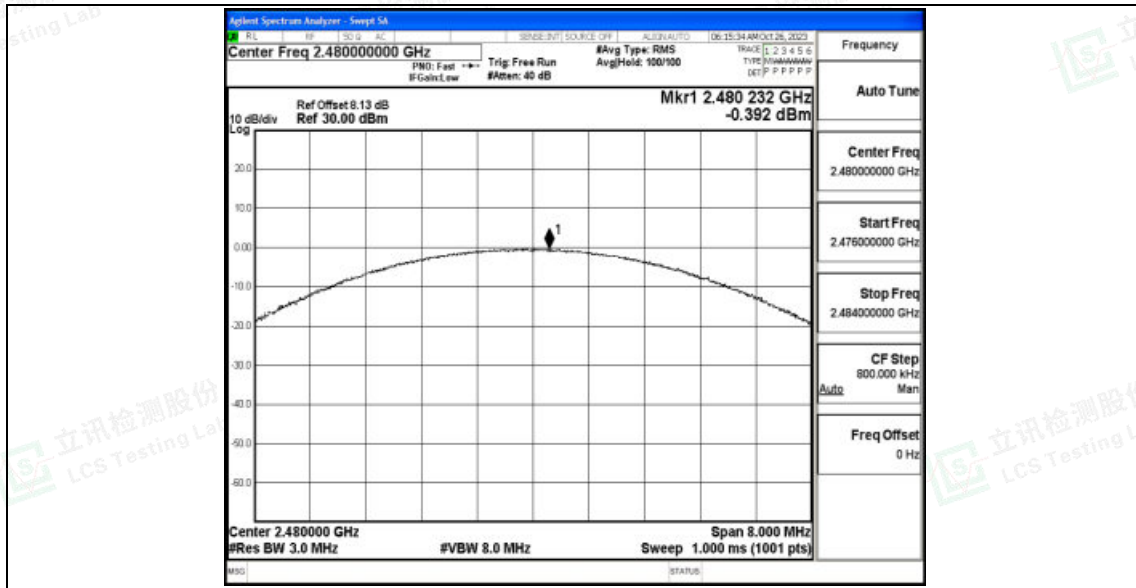


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A.3 Carrier frequency separation

Test Result

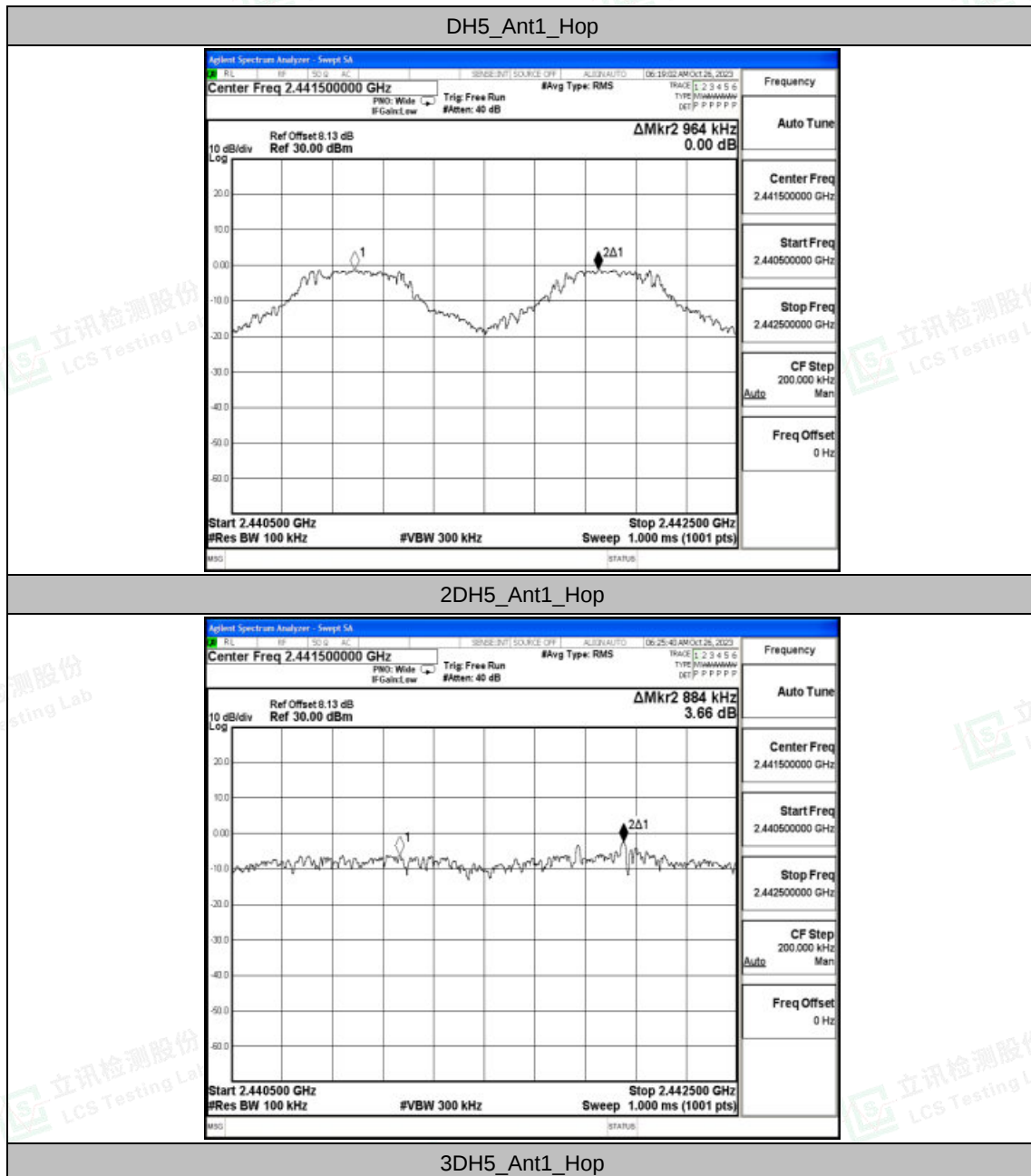
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.964	≥ 0.694	PASS
2DH5	Ant1	Hop	0.884	≥ 0.862	PASS
3DH5	Ant1	Hop	0.938	≥ 0.866	PASS



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Test Graphs

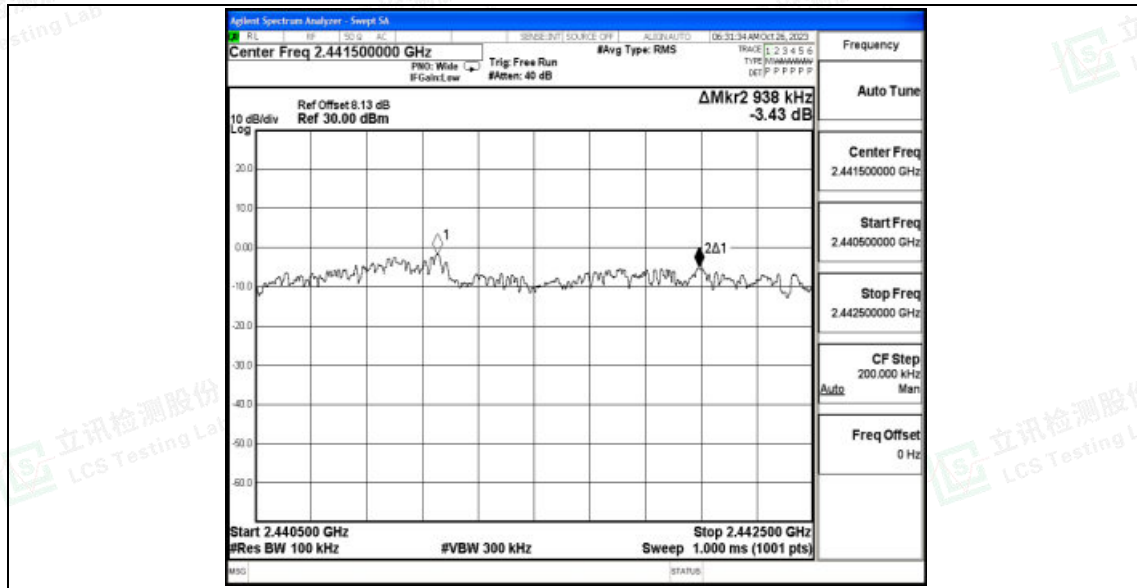


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



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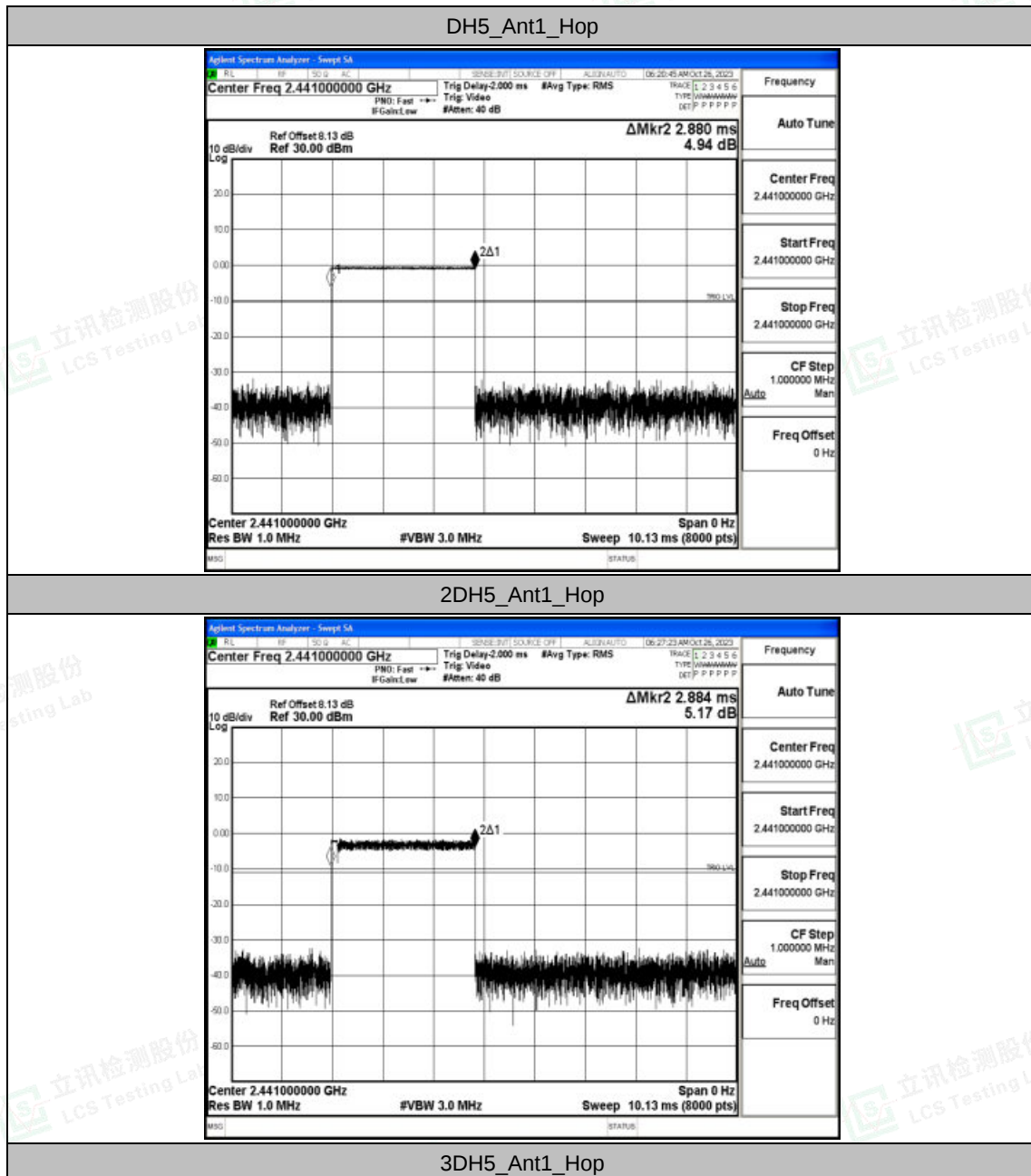
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Test Graphs

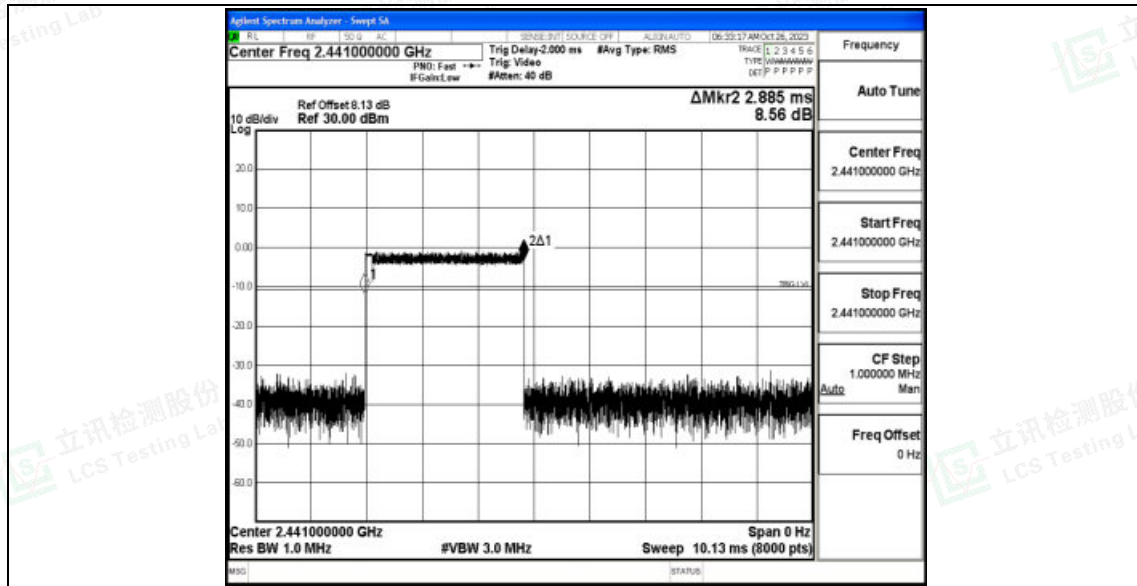


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A.5 Number of hopping channels

Test Result

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



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Test Graphs

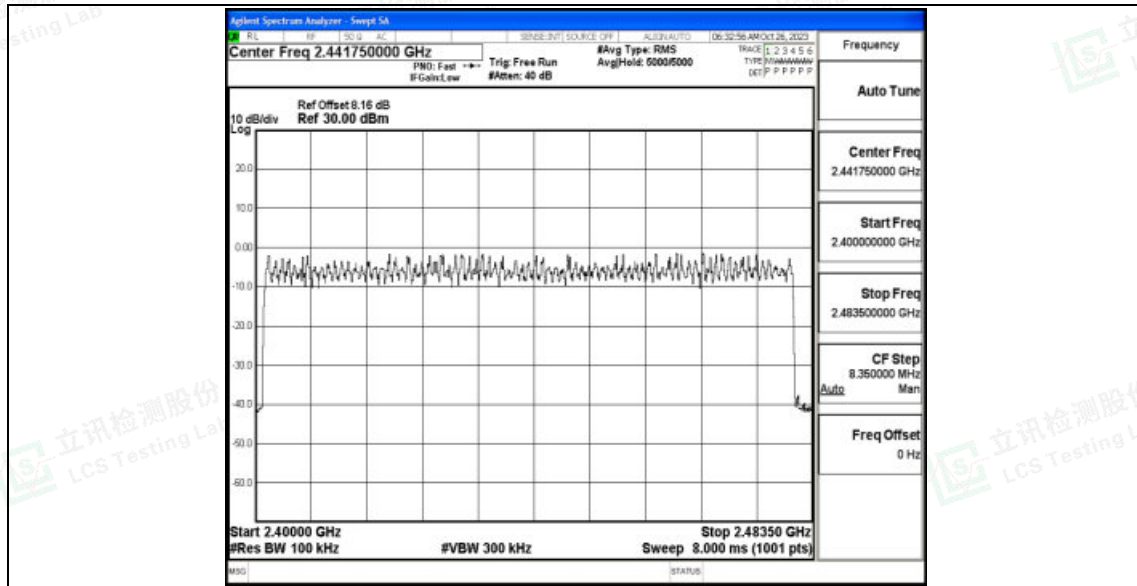


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.93	-51.41	≤-21.93	PASS
		High	2480	-1.71	-50.24	≤-21.71	PASS
		Low	Hop_2402	-1.68	-50.18	≤-21.68	PASS
		High	Hop_2480	-0.58	-49.06	≤-20.58	PASS
2DH5	Ant1	Low	2402	-4.15	-50.94	≤-24.15	PASS
		High	2480	-4.96	-49.74	≤-24.96	PASS
		Low	Hop_2402	-3.56	-50.09	≤-23.56	PASS
		High	Hop_2480	-1.52	-49.47	≤-21.52	PASS
3DH5	Ant1	Low	2402	-1.90	-51.28	≤-21.9	PASS
		High	2480	-5.76	-50.6	≤-25.76	PASS
		Low	Hop_2402	-2.78	-49.99	≤-22.78	PASS
		High	Hop_2480	-1.93	-49.21	≤-21.93	PASS



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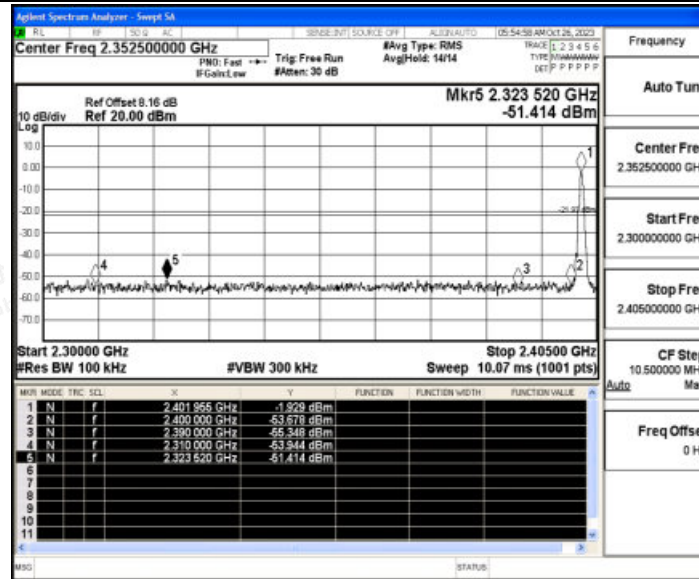
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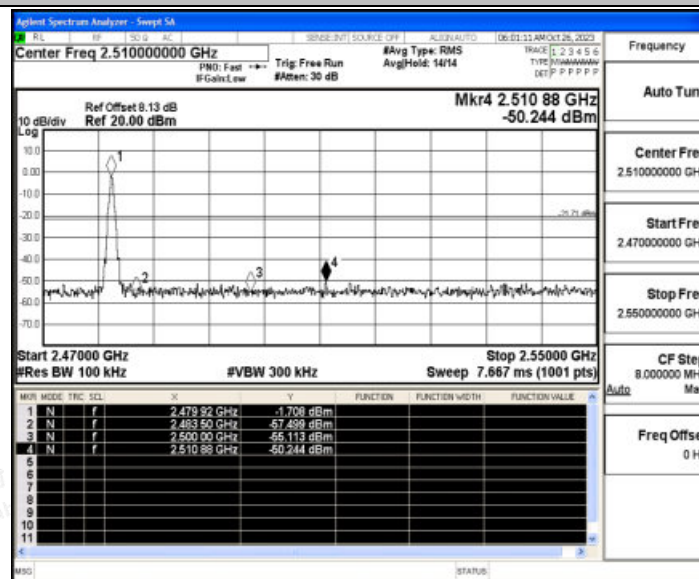


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

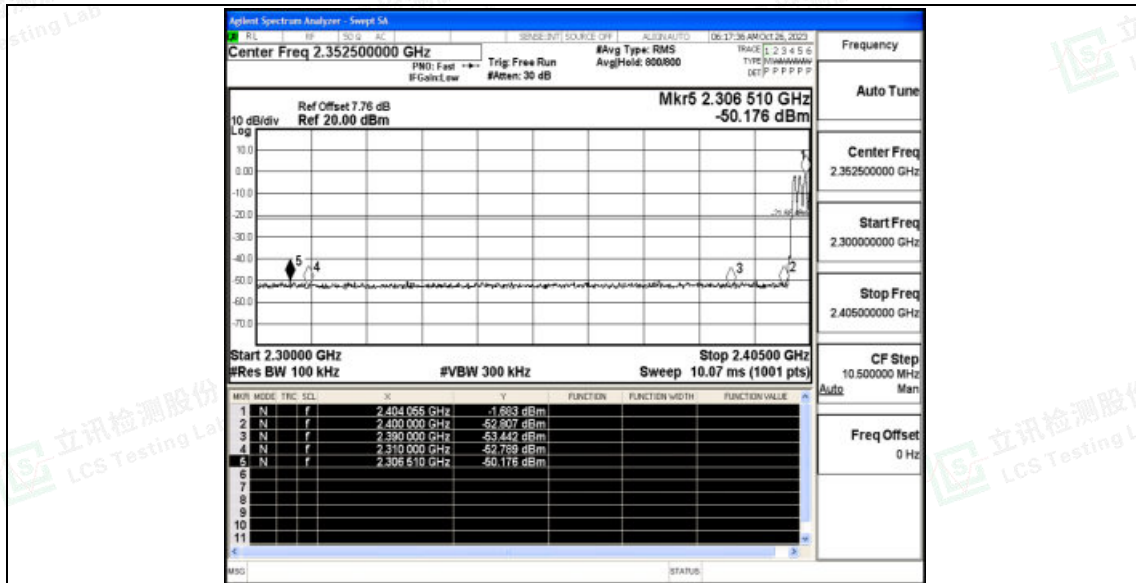


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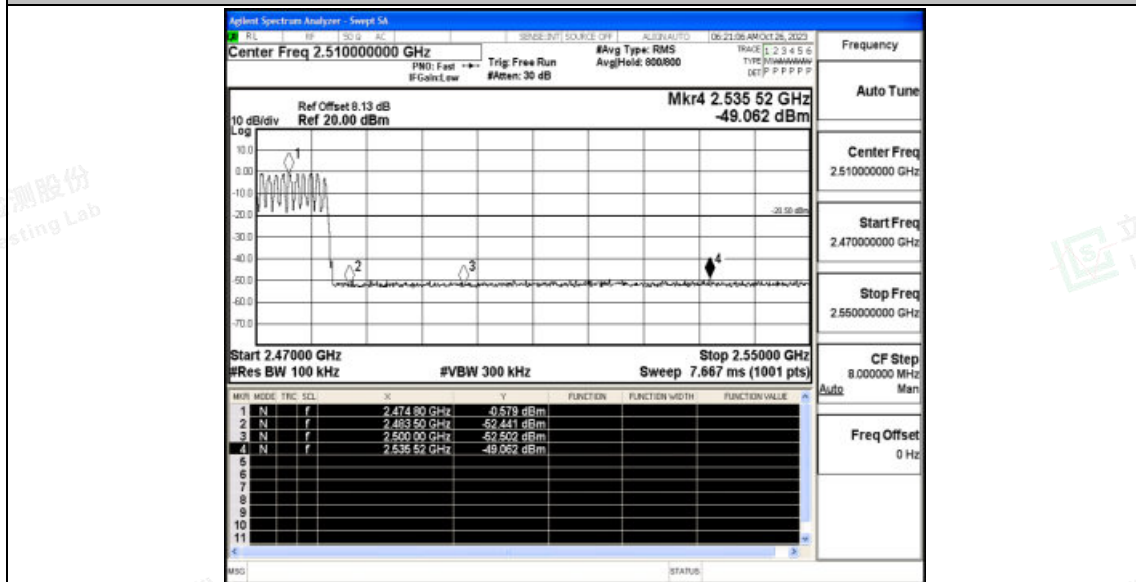
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

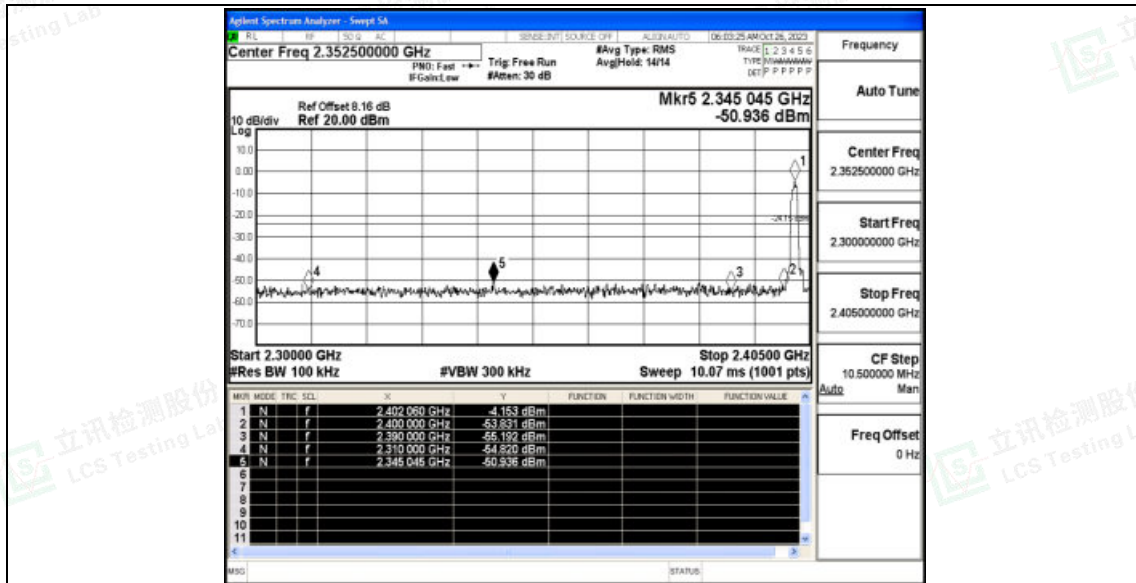


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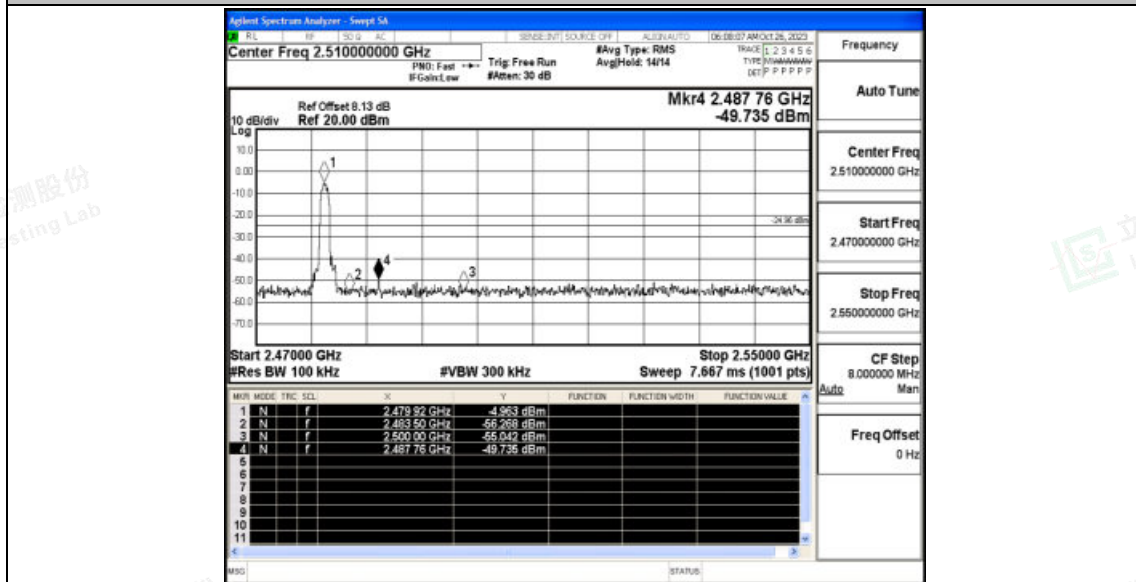
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

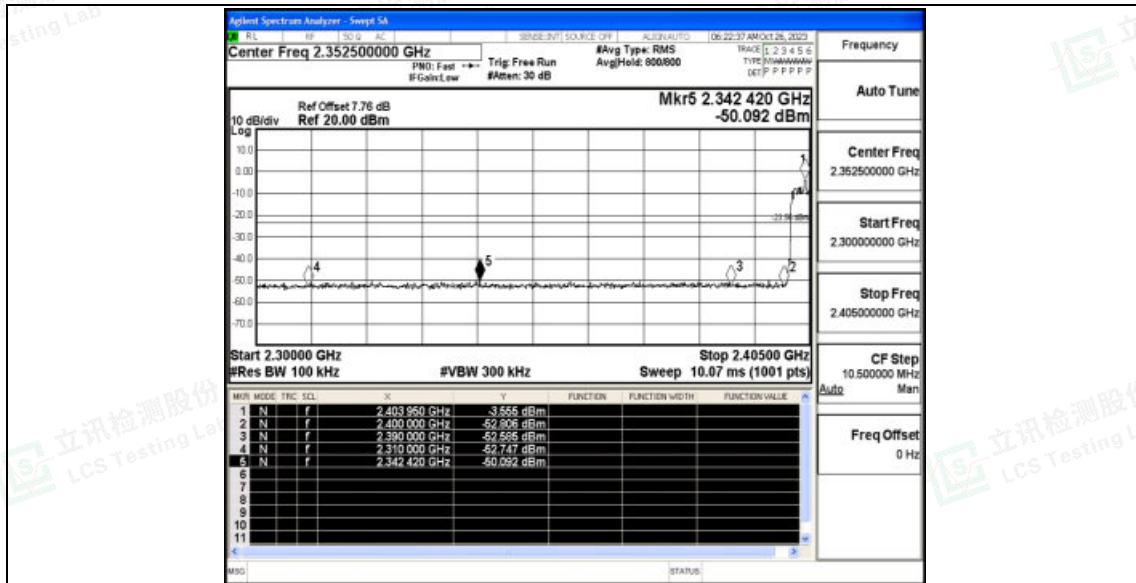


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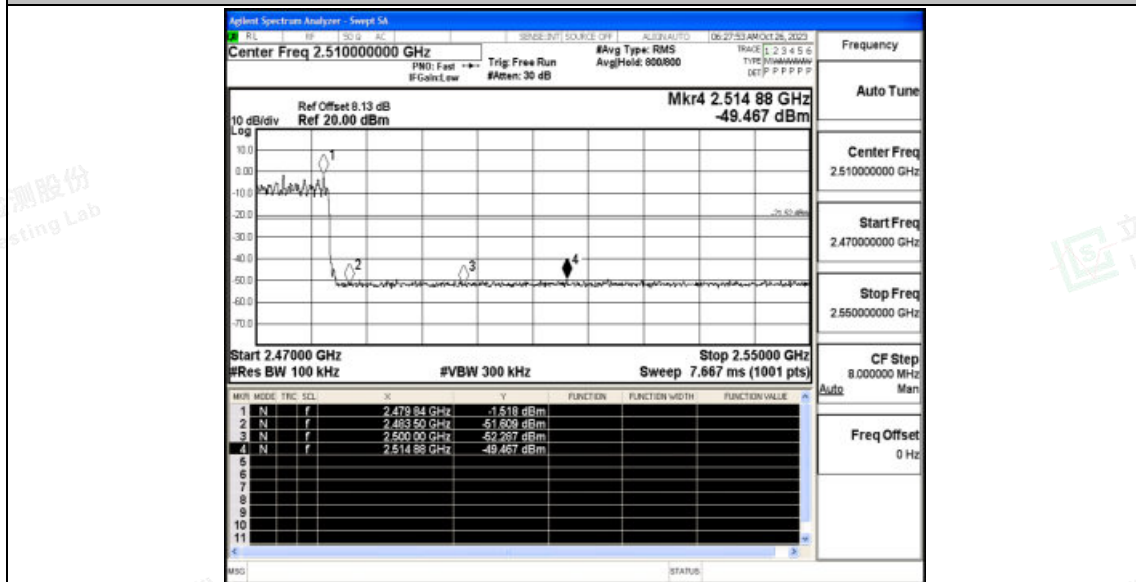
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

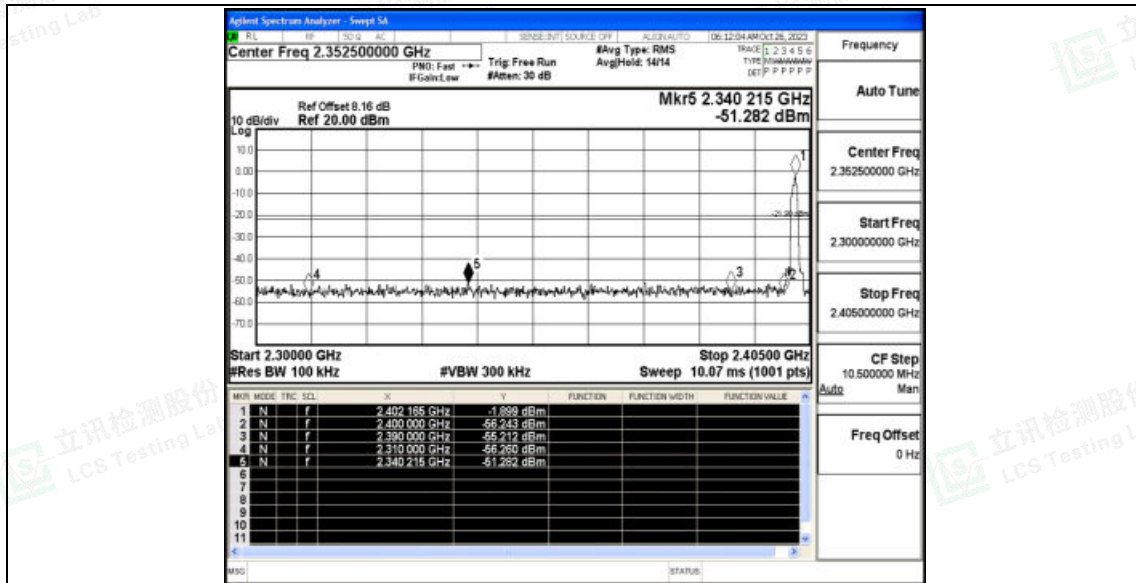


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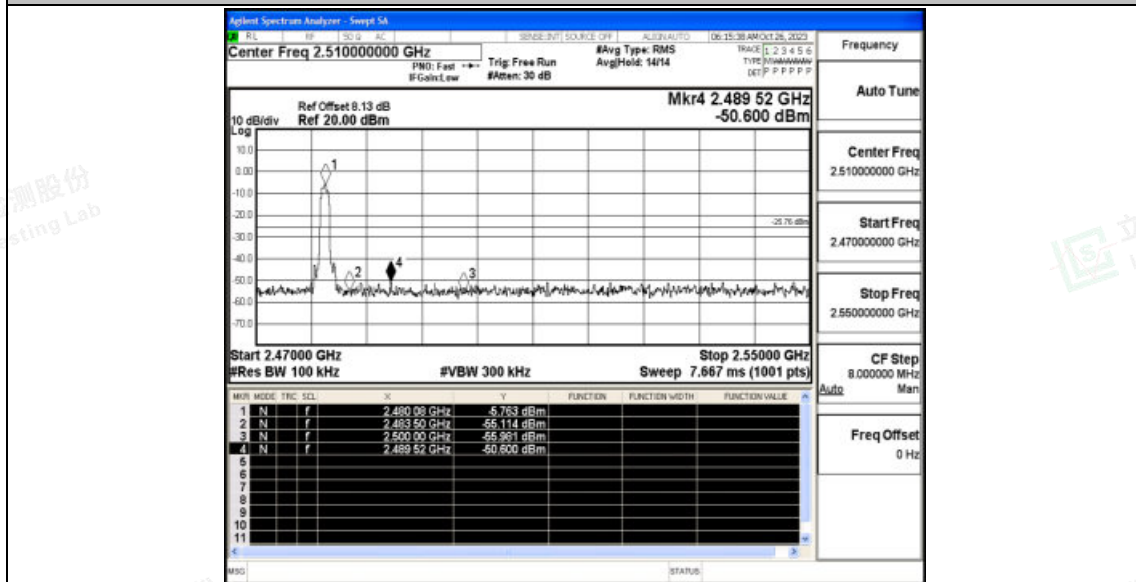
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

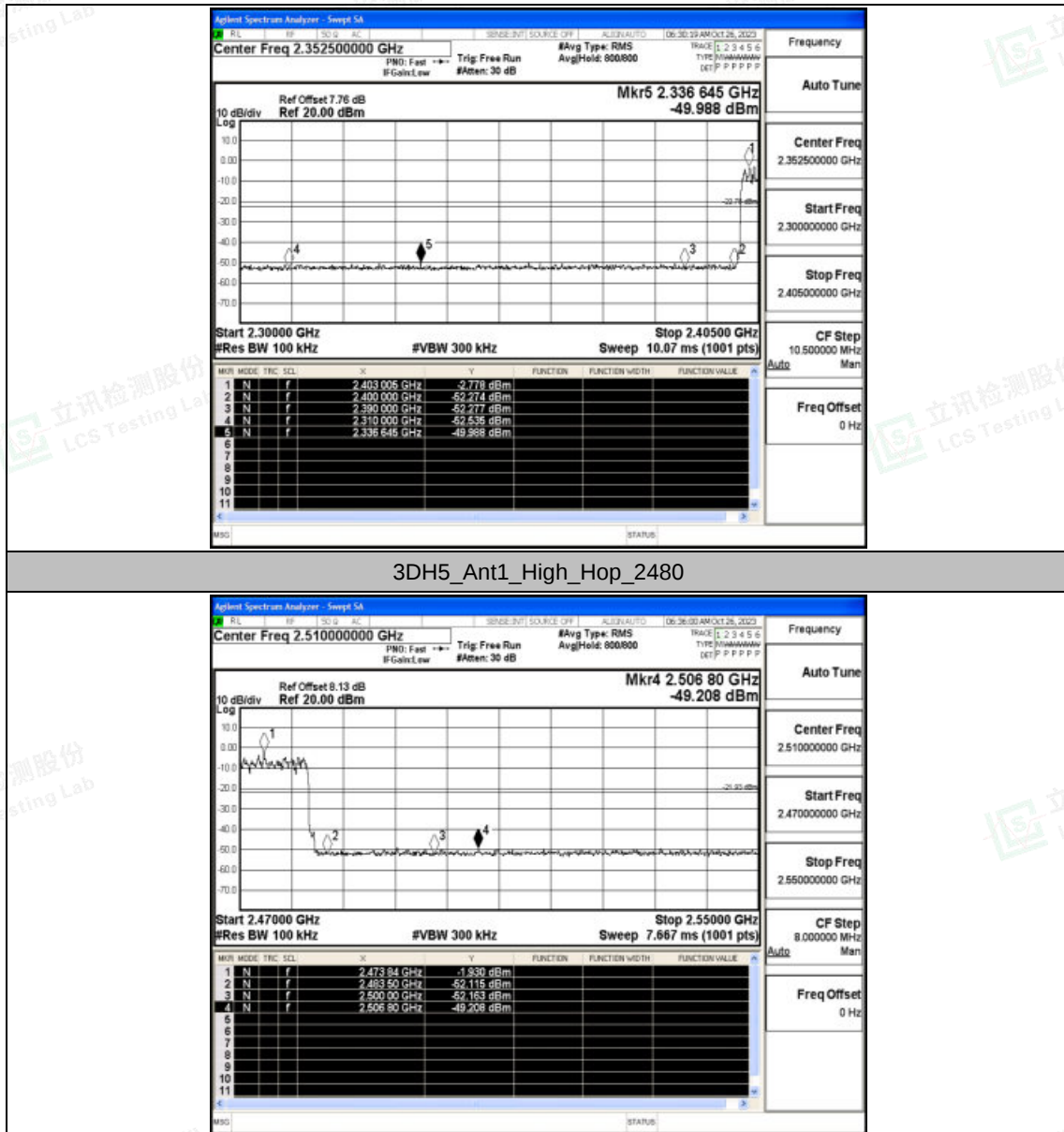


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-60.23	≤-21.82	PASS
			1000~26500	-1.82	-48.8	≤-21.82	PASS
		2441	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-61.99	≤-21.73	PASS
			1000~26500	-1.73	-49.03	≤-21.73	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-62.37	≤-20.89	PASS
			1000~26500	-0.89	-48.91	≤-20.89	PASS
2DH5	Ant1	2402	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-61.23	≤-22.13	PASS
			1000~26500	-2.13	-49.79	≤-22.13	PASS
		2441	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-61.22	≤-22.55	PASS
			1000~26500	-2.55	-49.8	≤-22.55	PASS
		2480	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-62.05	≤-22.31	PASS
			1000~26500	-2.31	-48.9	≤-22.31	PASS
3DH5	Ant1	2402	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-61.93	≤-22.24	PASS
			1000~26500	-2.24	-49.1	≤-22.24	PASS
		2441	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-61.84	≤-21.9	PASS
			1000~26500	-1.90	-49	≤-21.9	PASS
		2480	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-61.33	≤-21.84	PASS
			1000~26500	-1.84	-49.18	≤-21.84	PASS



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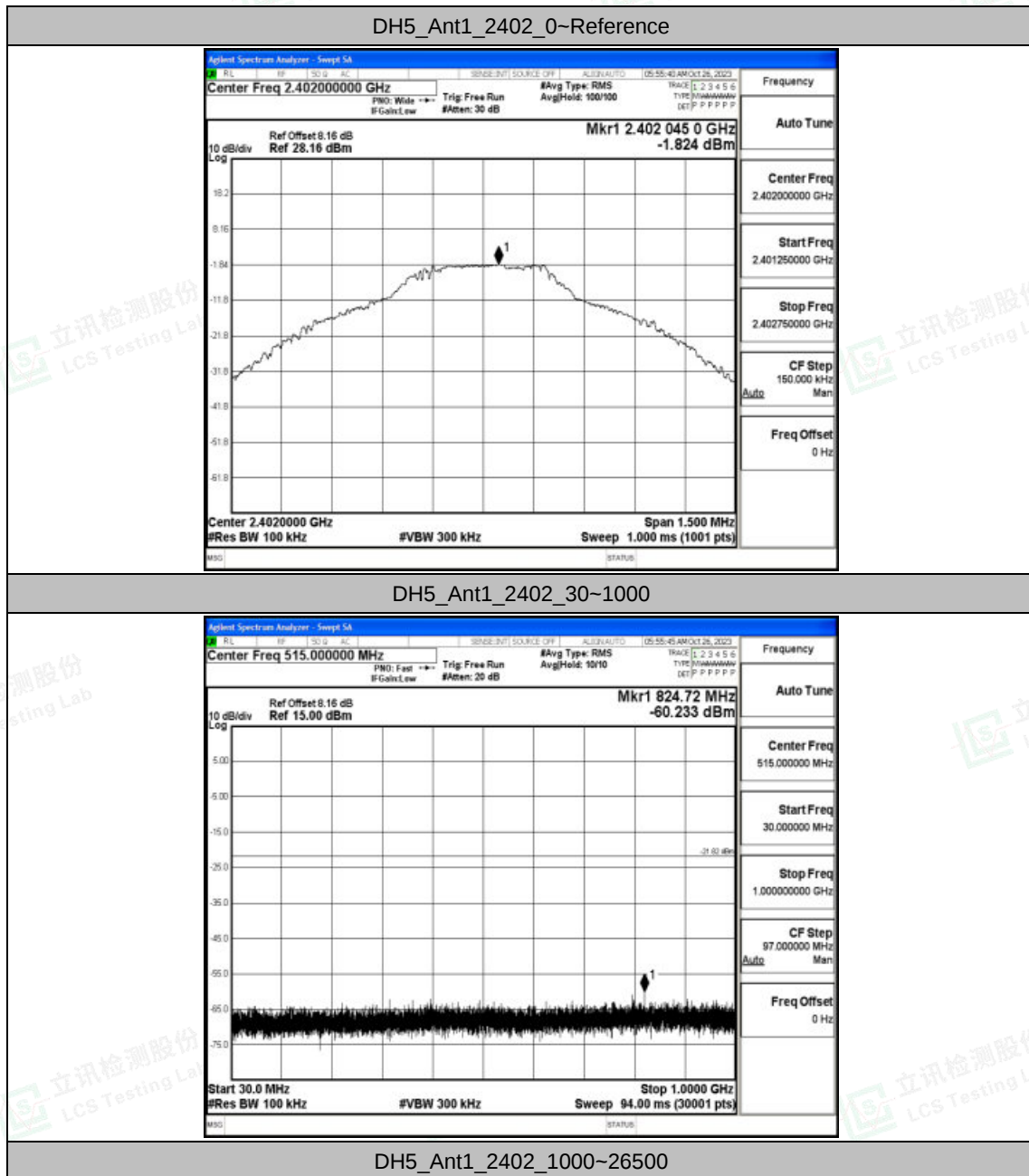
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Test Graphs

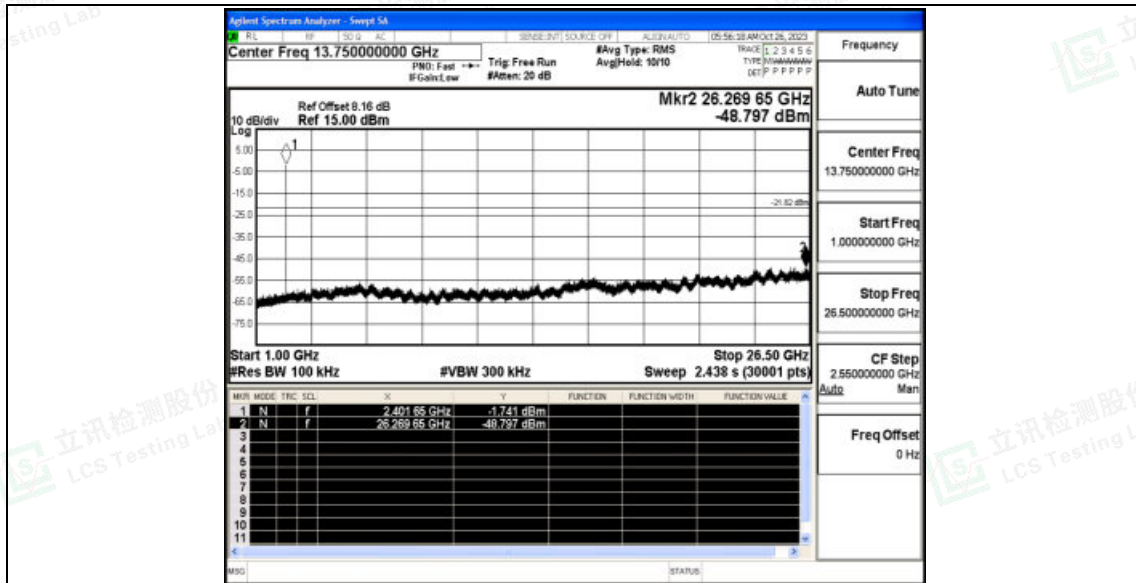


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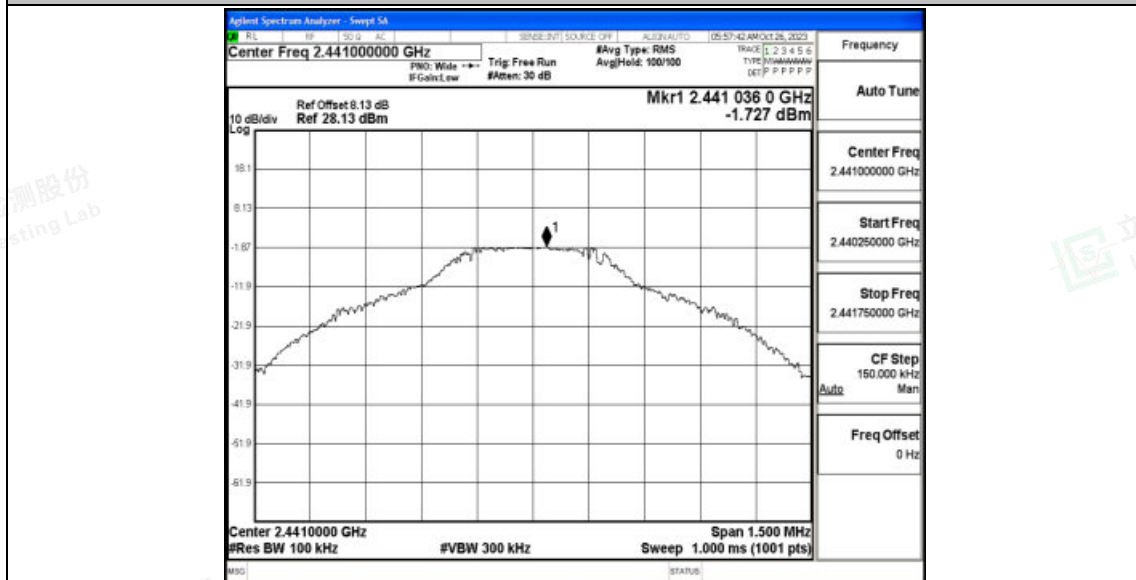
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30-1000

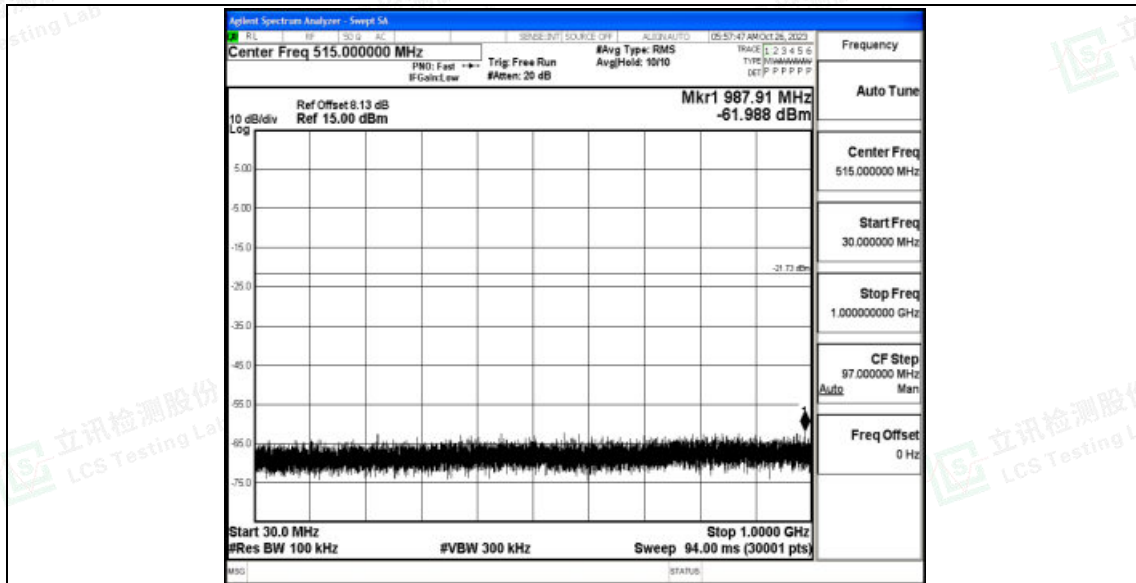


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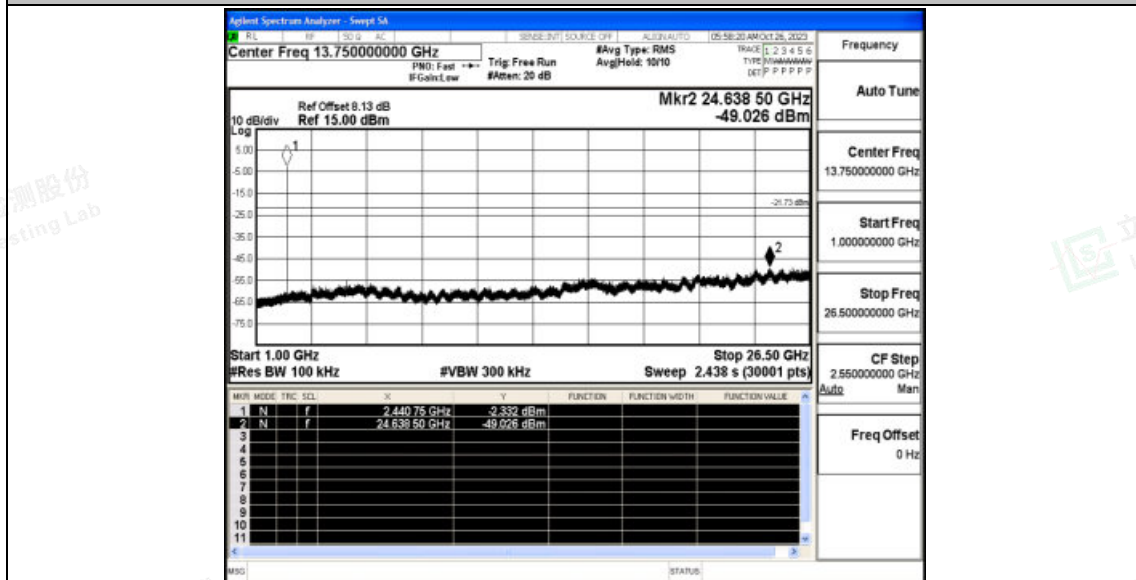
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference

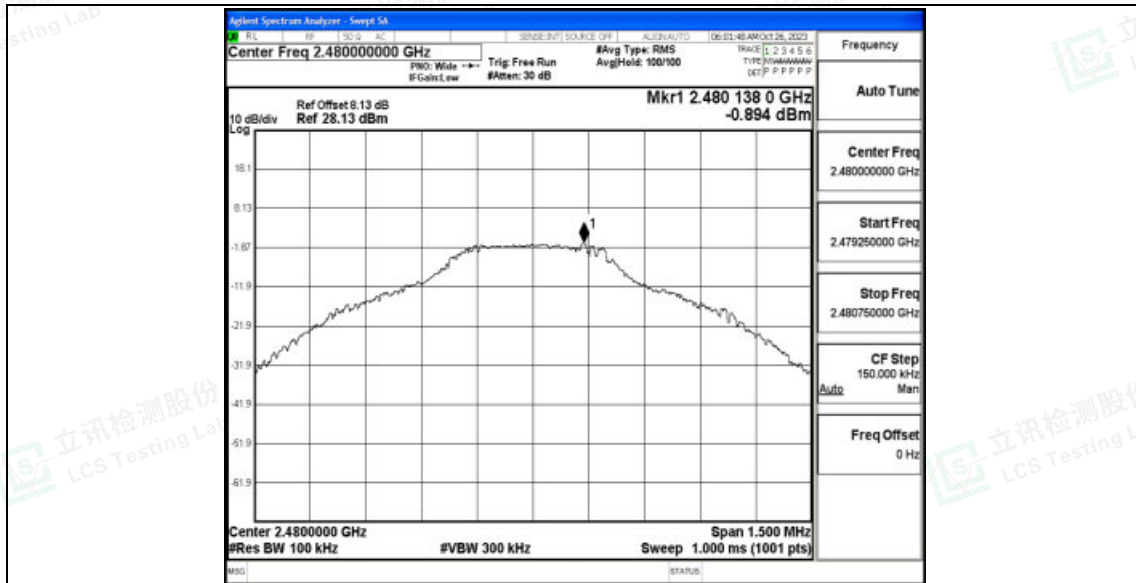


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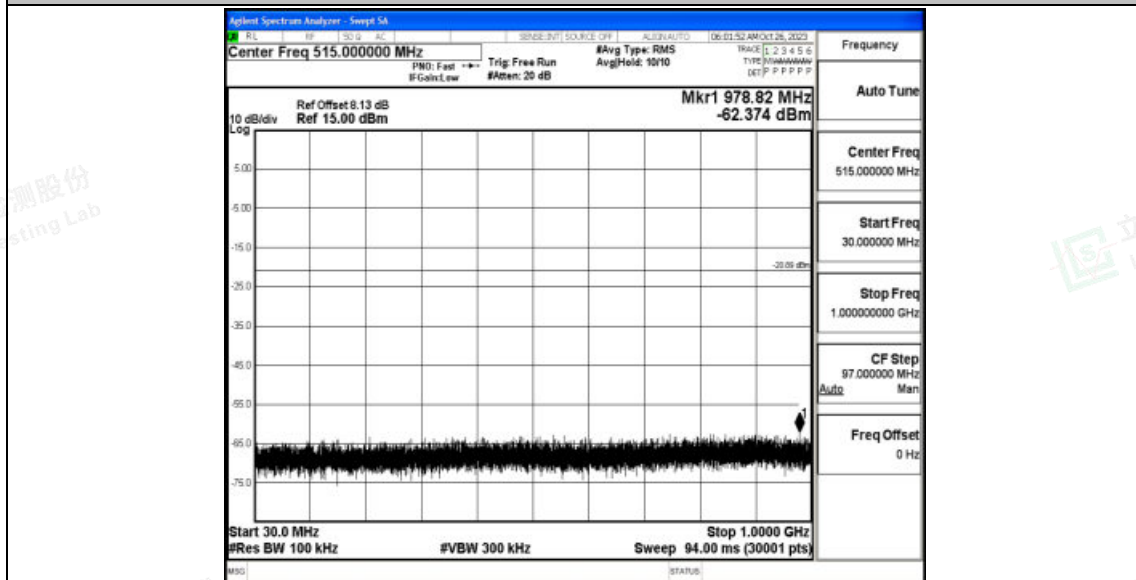
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

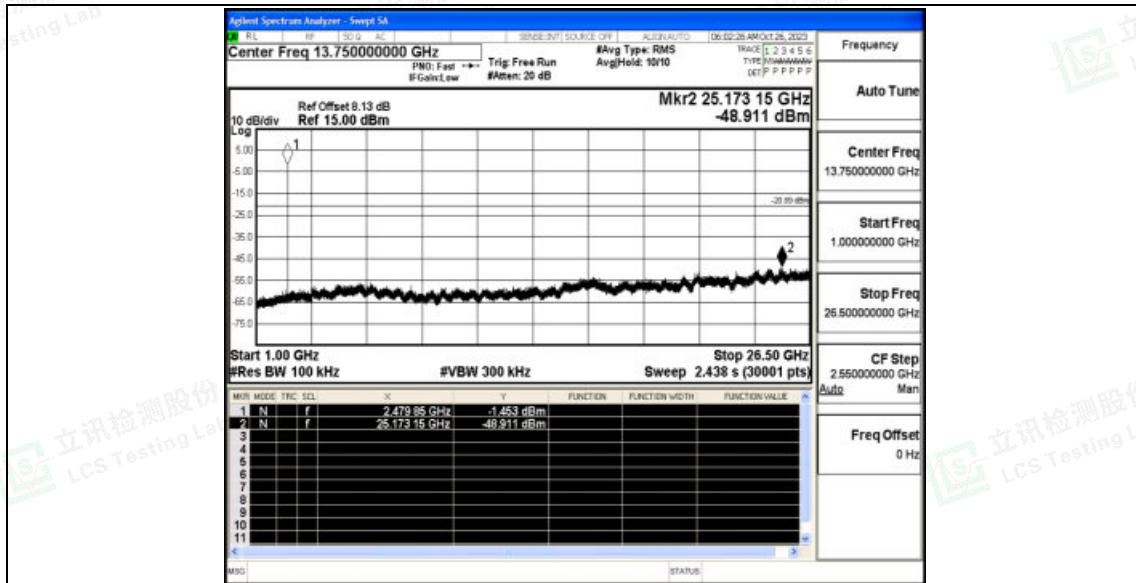


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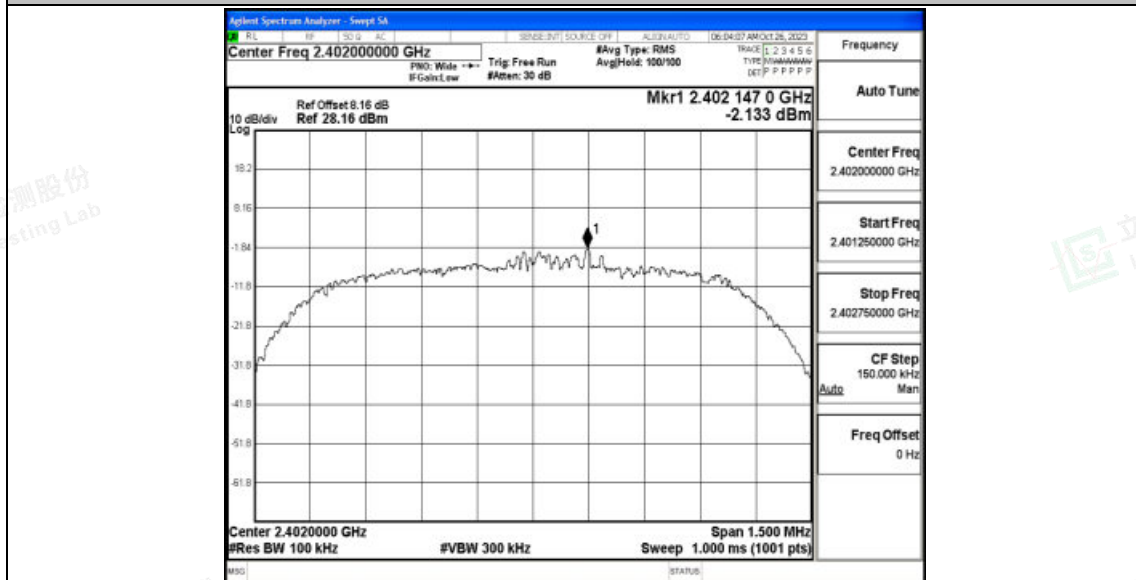
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

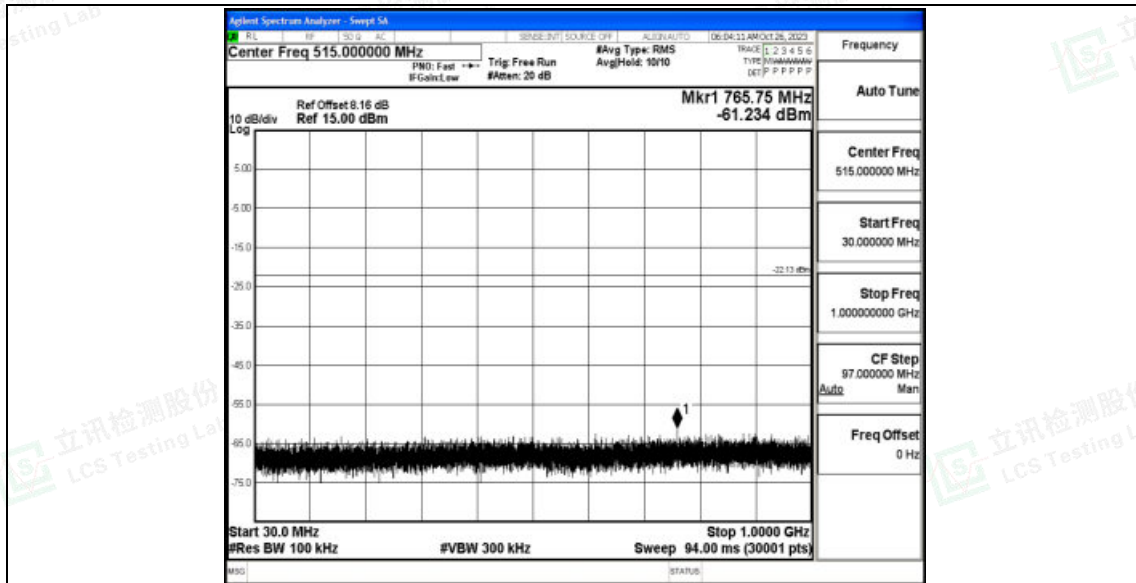


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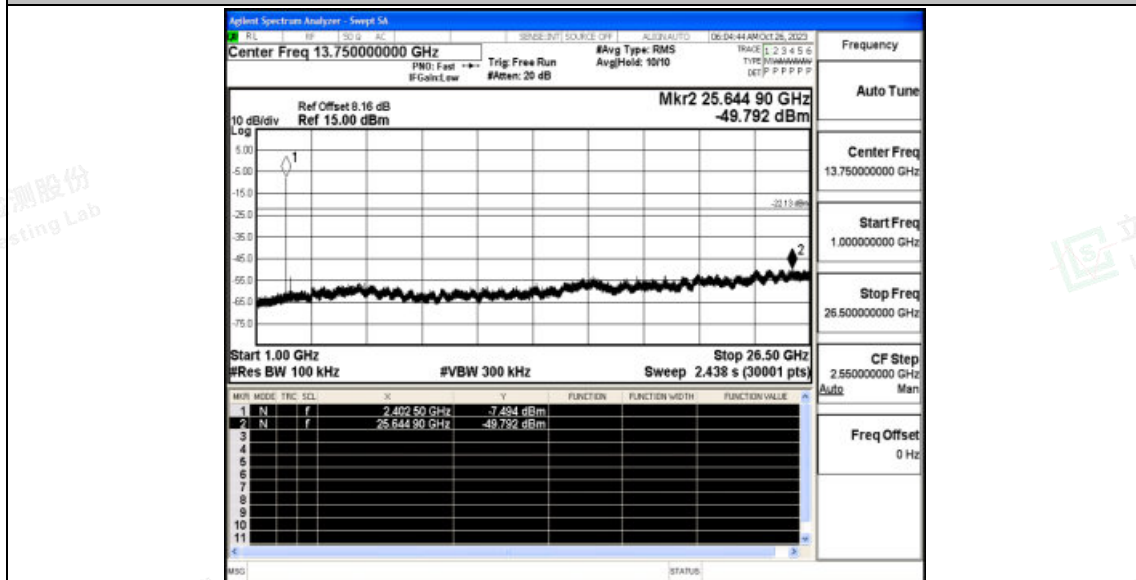
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

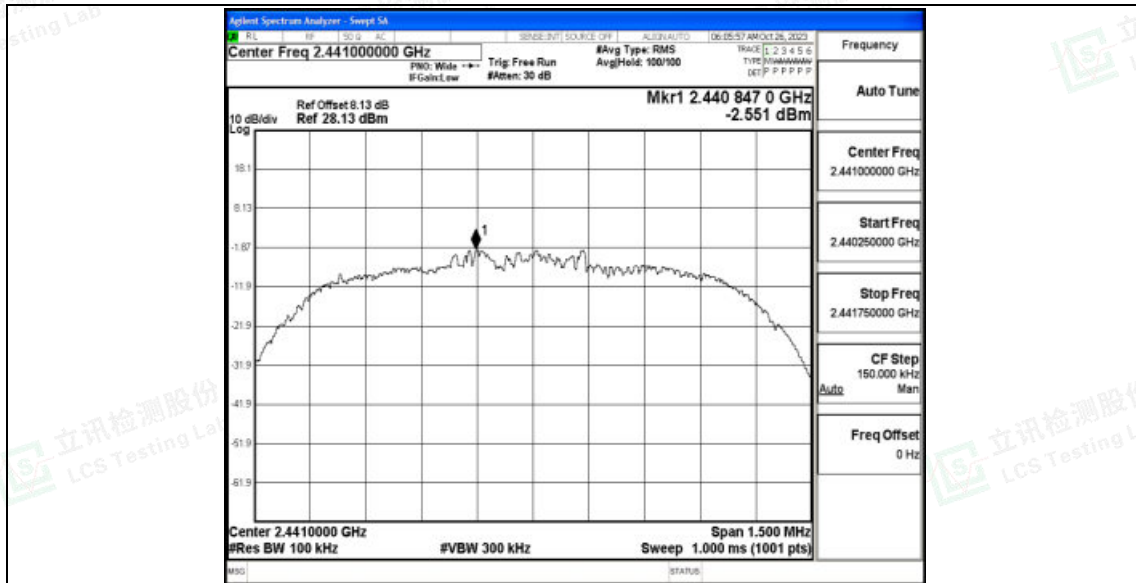


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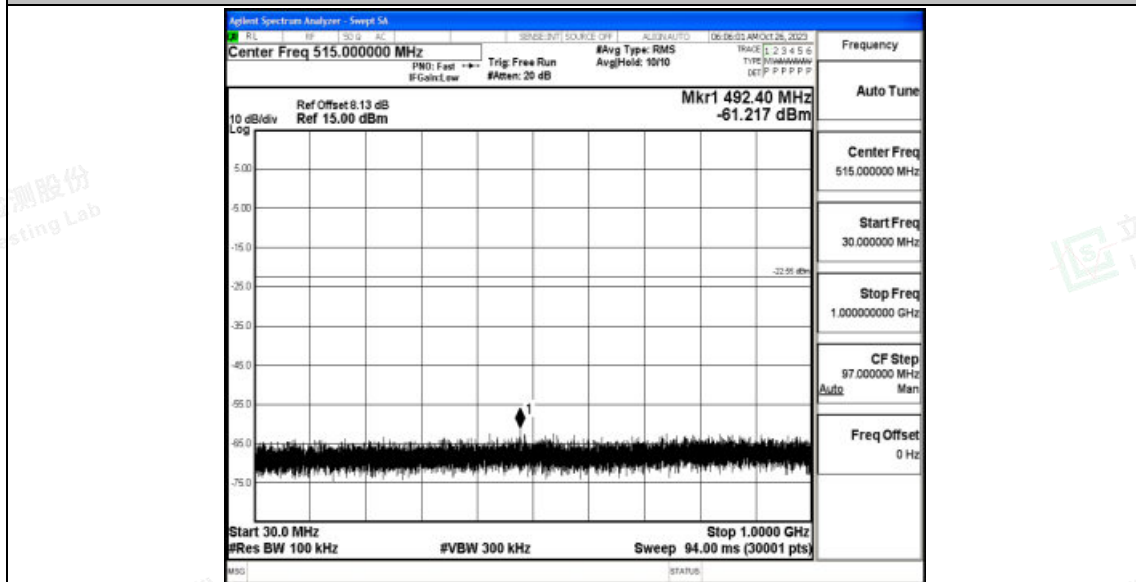
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

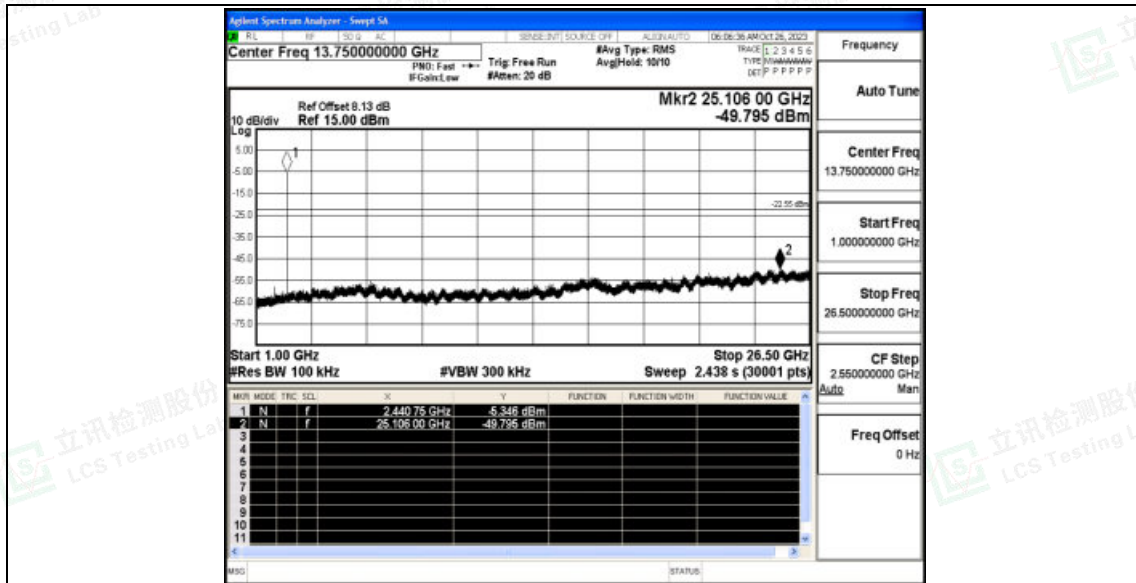


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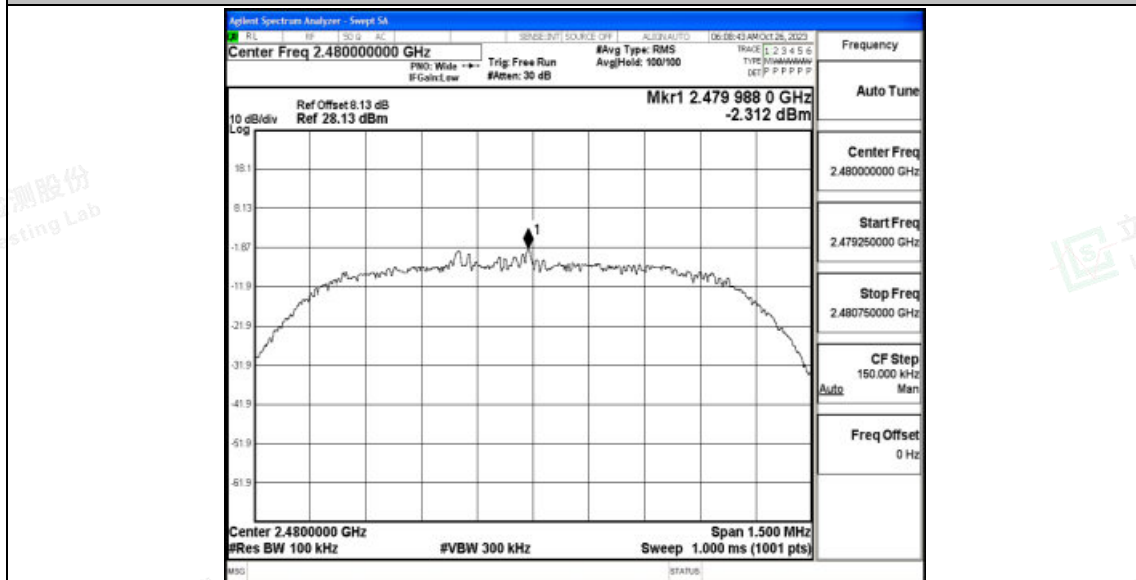
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

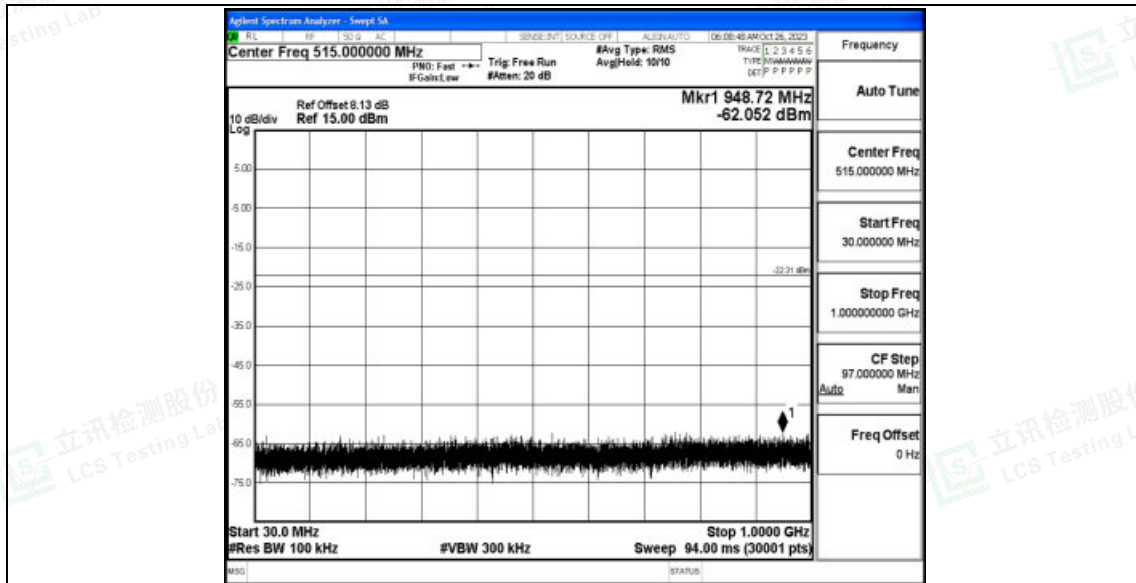


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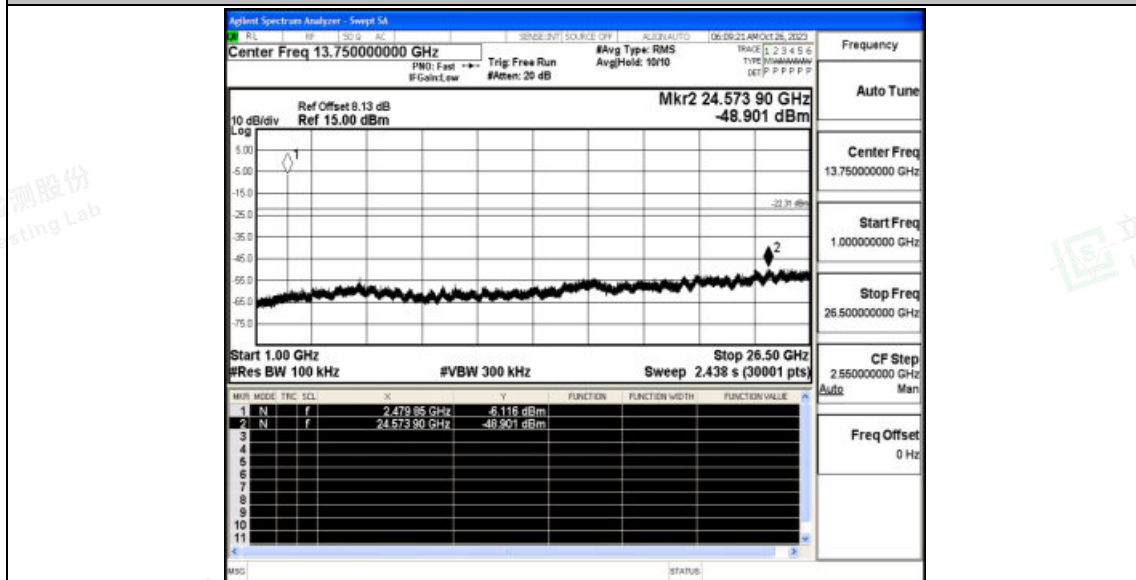
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

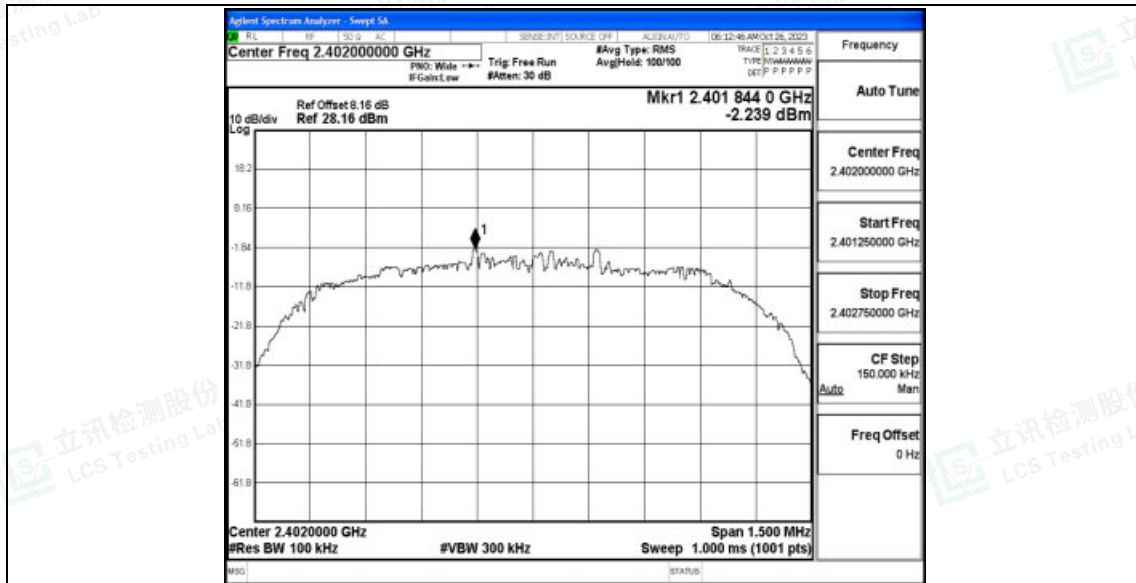


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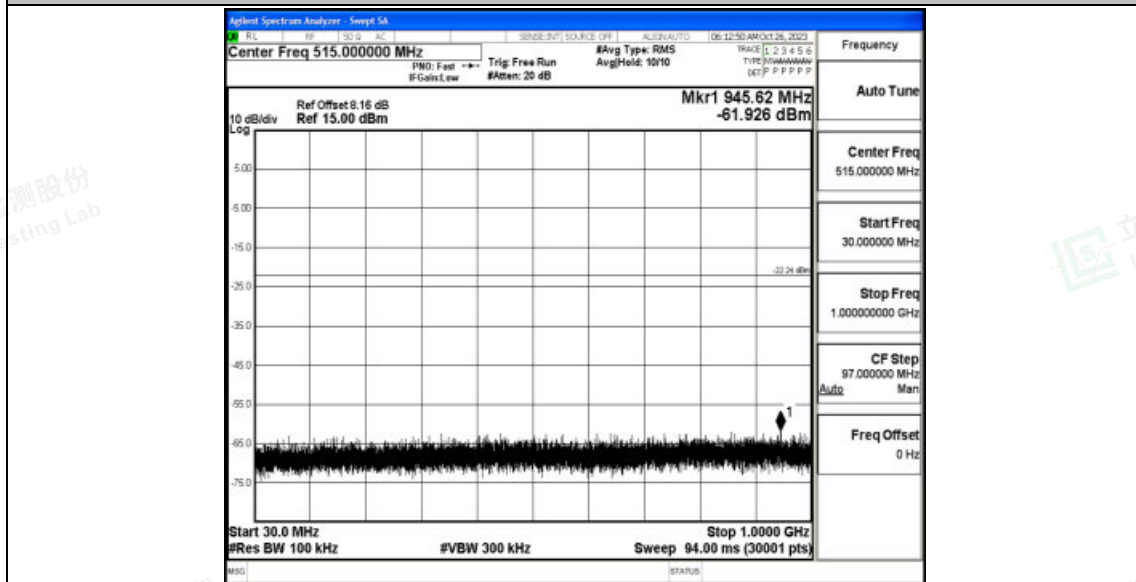
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

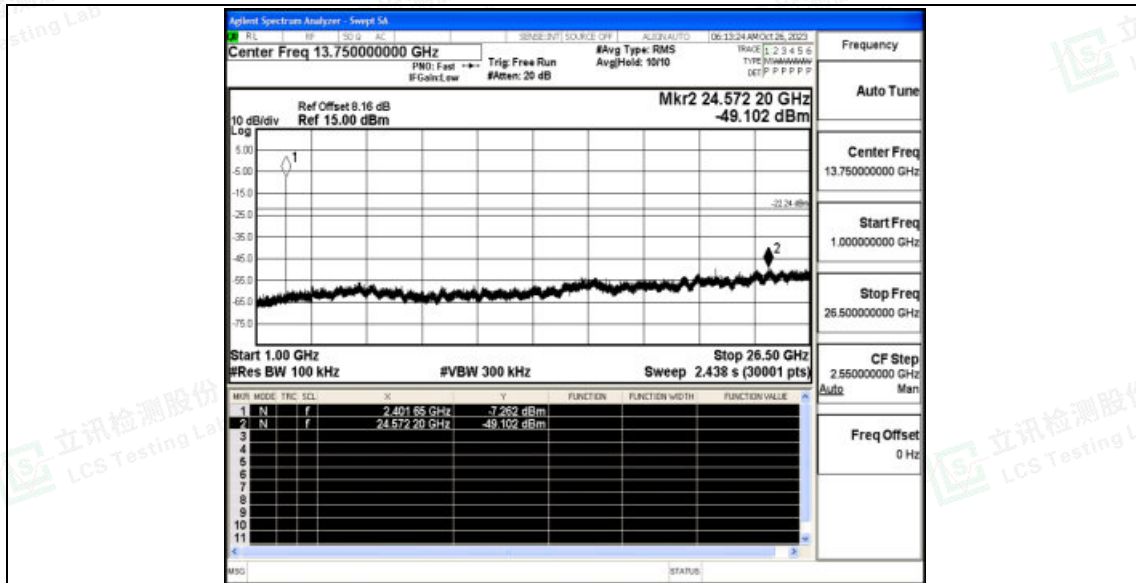


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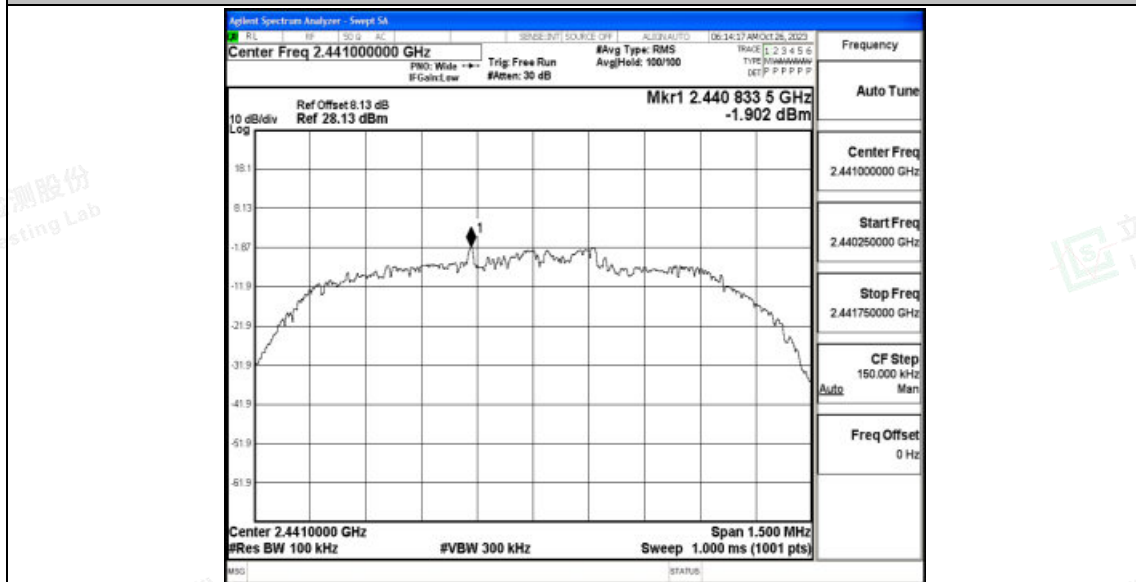
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

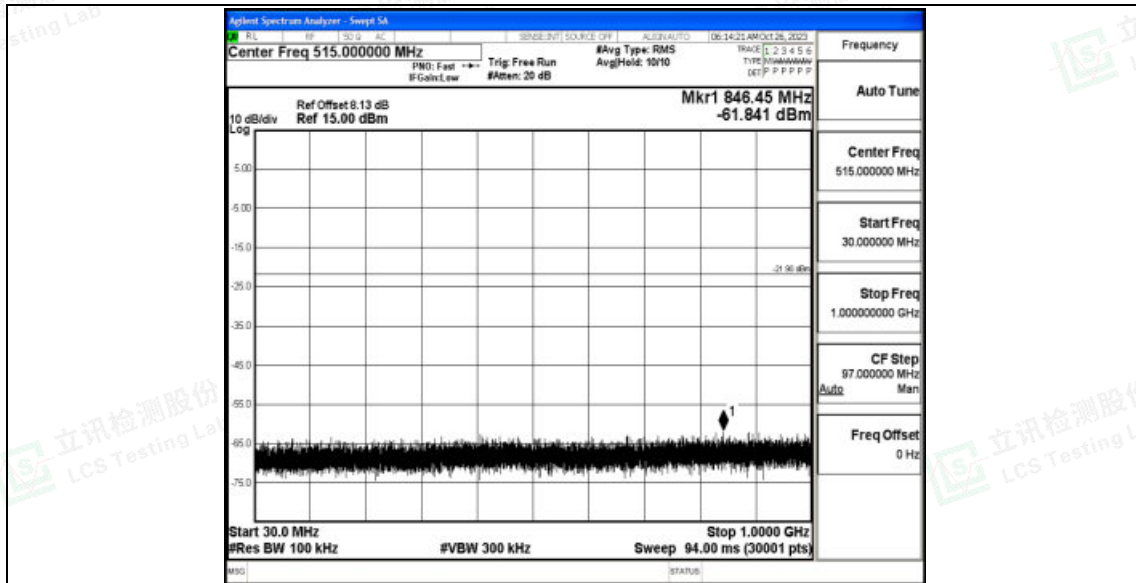


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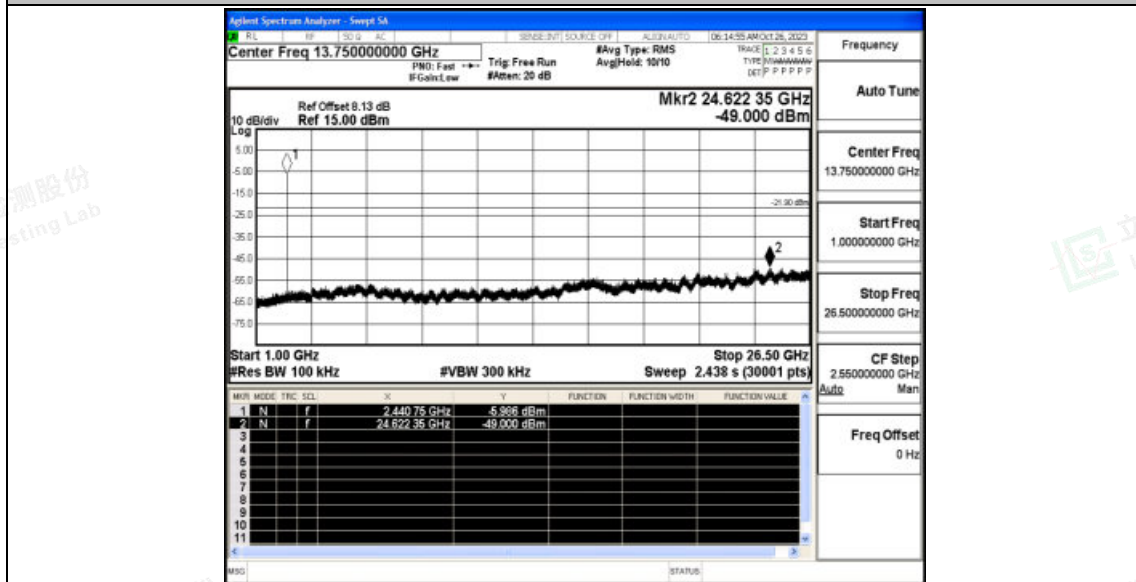
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

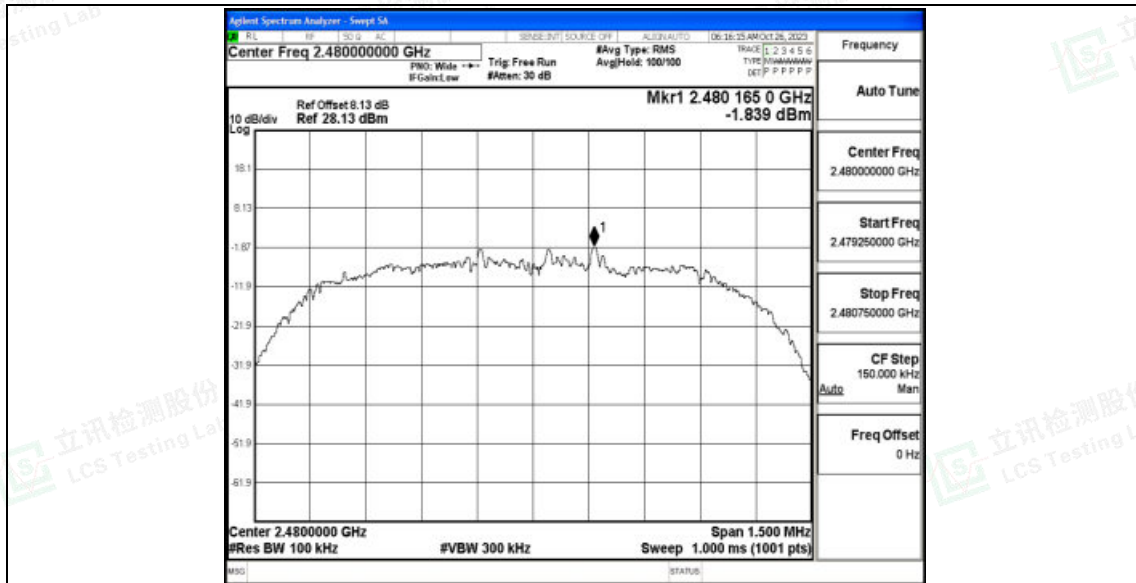


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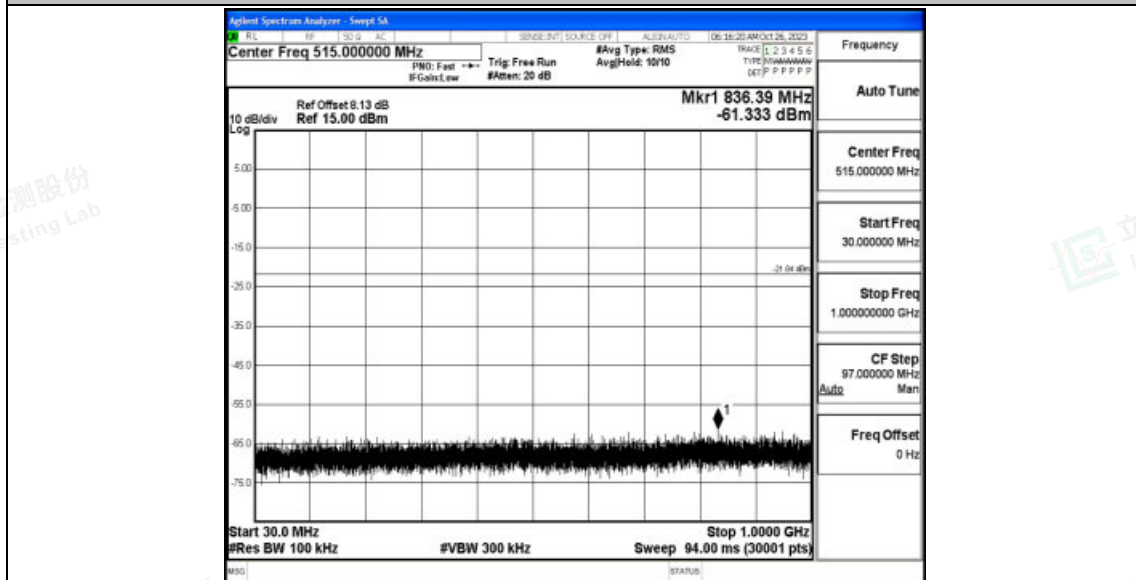
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

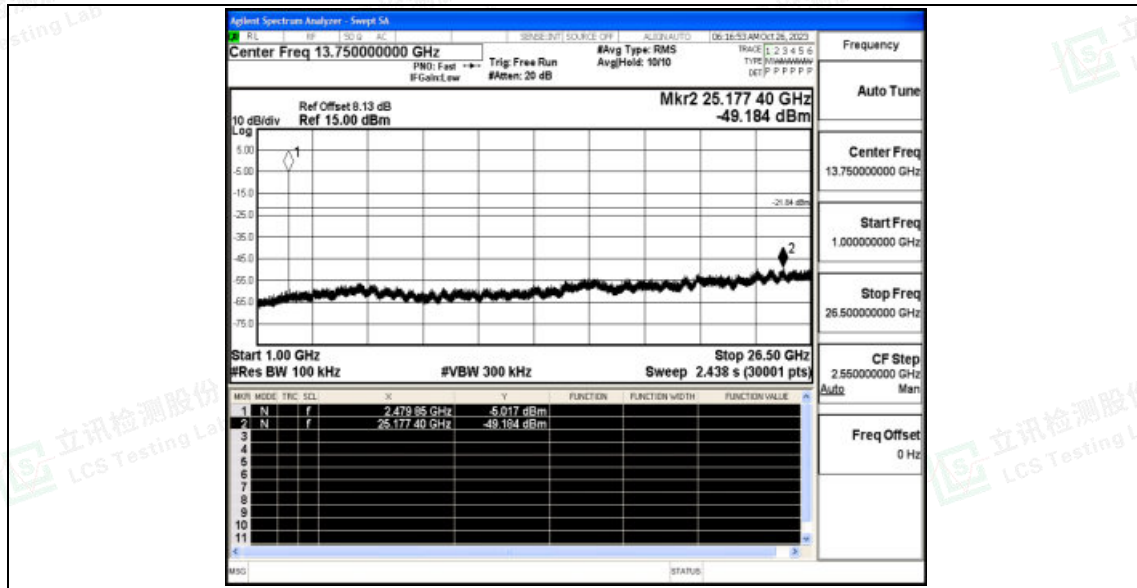


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A.8 Emissions in Restricted Bands

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	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2387.045	-48.61	≤-41.20	46.59	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-44.24	≤-21.20	50.96	≤74	PASS
				Peak	2353.865	-39.14	≤-21.20	56.06	≤74	PASS
				Peak	2390.000	-42.85	≤-21.20	52.35	≤74	PASS
		High	2480	AV	2483.500	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2499.920	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2483.500	-43.01	≤-21.20	52.19	≤74	PASS
				Peak	2493.520	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2500.000	-44.35	≤-21.20	50.85	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-41.65	≤-21.20	53.55	≤74	PASS
				Peak	2360.690	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2390.000	-40.68	≤-21.20	54.52	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-40.78	≤-21.20	54.42	≤74	PASS
				Peak	2497.600	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2500.000	-40.54	≤-21.20	54.66	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.18	≤-41.20	46.02	≤54	PASS
				AV	2385.155	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-45.62	≤-21.20	49.58	≤74	PASS
				Peak	2321.210	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-43.54	≤-21.20	51.66	≤74	PASS
		High	2480	AV	2483.500	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2491.840	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-43.29	≤-21.20	51.91	≤74	PASS
				Peak	2488.480	-39.82	≤-21.20	55.38	≤74	PASS
				Peak	2500.000	-42.74	≤-21.20	52.46	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.23	≤-21.20	54.97	≤74	PASS
				Peak	2343.785	-38.09	≤-21.20	57.11	≤74	PASS
				Peak	2390.000	-40.73	≤-21.20	54.47	≤74	PASS
		High	Hop_248	Peak	2483.500	-39.91	≤-21.20	55.29	≤74	PASS



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3DH5	Ant1		0	Peak	2498.640	-38.33	≤ -21.20	56.87	≤ 74	PASS
				Peak	2500.000	-40.5	≤ -21.20	54.70	≤ 74	PASS
		Low	2402	AV	2310.000	-49.17	≤ -41.20	46.03	≤ 54	PASS
				AV	2381.270	-48.61	≤ -41.20	46.59	≤ 54	PASS
				AV	2390.000	-48.77	≤ -41.20	46.43	≤ 54	PASS
				Peak	2310.000	-44.46	≤ -21.20	50.74	≤ 74	PASS
				Peak	2310.815	-39.19	≤ -21.20	56.01	≤ 74	PASS
				Peak	2390.000	-43.4	≤ -21.20	51.80	≤ 74	PASS
		High	2480	AV	2483.500	-48.49	≤ -41.20	46.71	≤ 54	PASS
				AV	2483.520	-48.49	≤ -41.20	46.71	≤ 54	PASS
				AV	2500.000	-48.68	≤ -41.20	46.52	≤ 54	PASS
				Peak	2483.500	-41.84	≤ -21.20	53.36	≤ 74	PASS
				Peak	2499.920	-40.2	≤ -21.20	55.00	≤ 74	PASS
				Peak	2500.000	-40.12	≤ -21.20	55.08	≤ 74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.66	≤ -21.20	54.54	≤ 74	PASS
				Peak	2375.915	-38.7	≤ -21.20	56.50	≤ 74	PASS
				Peak	2390.000	-40.94	≤ -21.20	54.26	≤ 74	PASS
		High	Hop_248 0	Peak	2483.500	-40.7	≤ -21.20	54.50	≤ 74	PASS
				Peak	2483.680	-38.55	≤ -21.20	56.65	≤ 74	PASS
				Peak	2500.000	-39.79	≤ -21.20	55.41	≤ 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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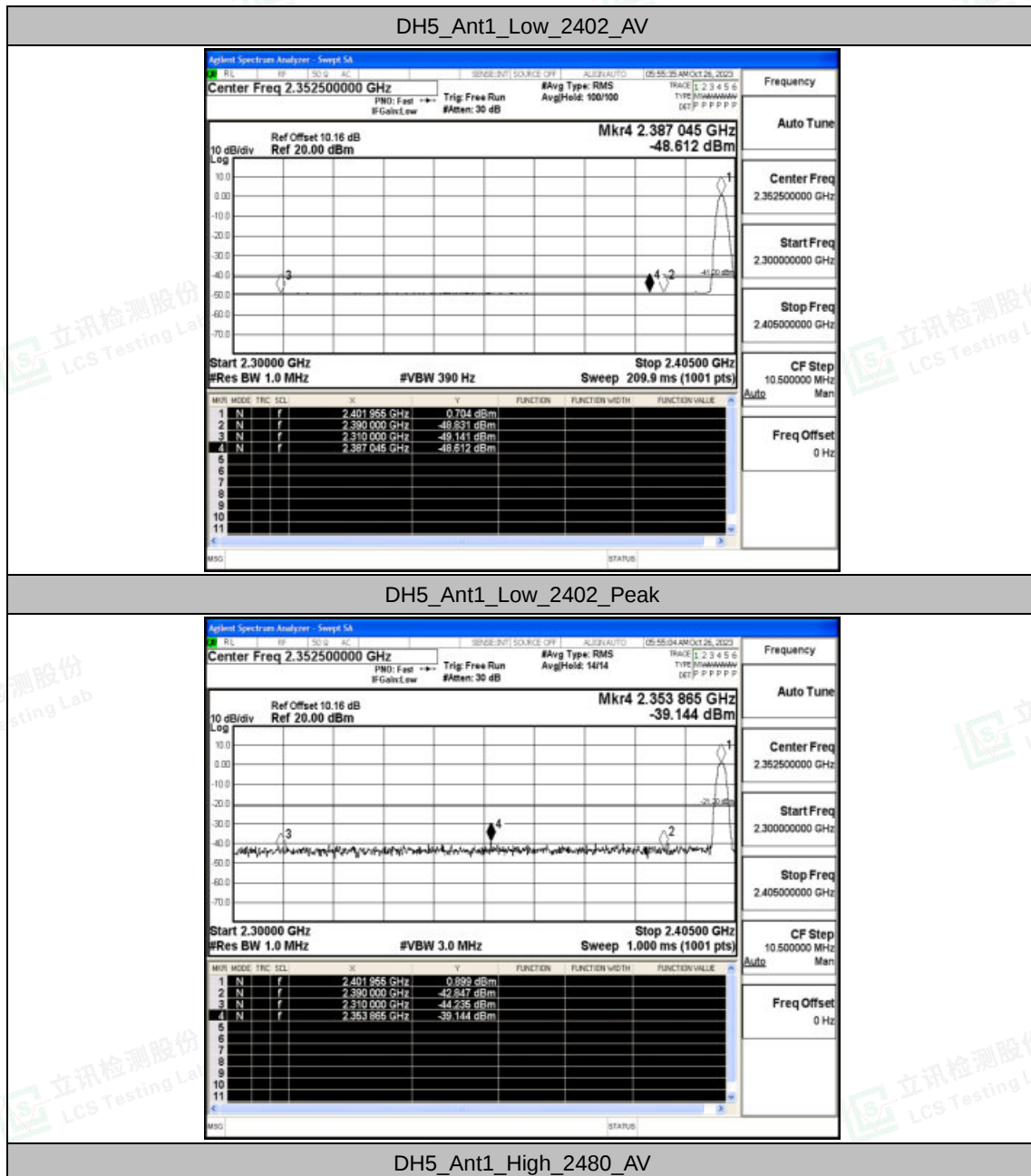
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Test Graphs

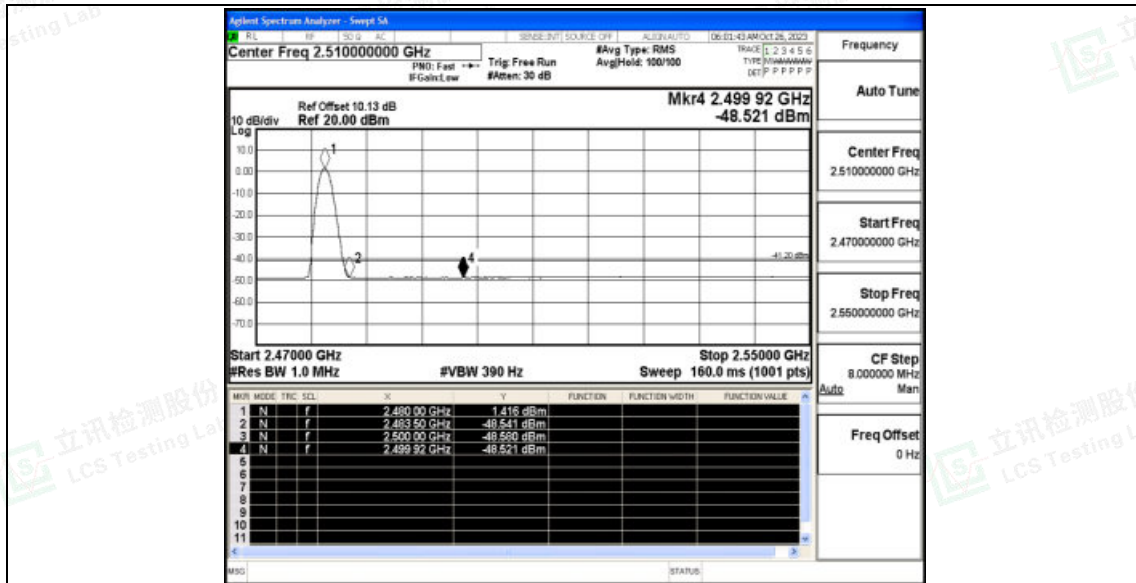


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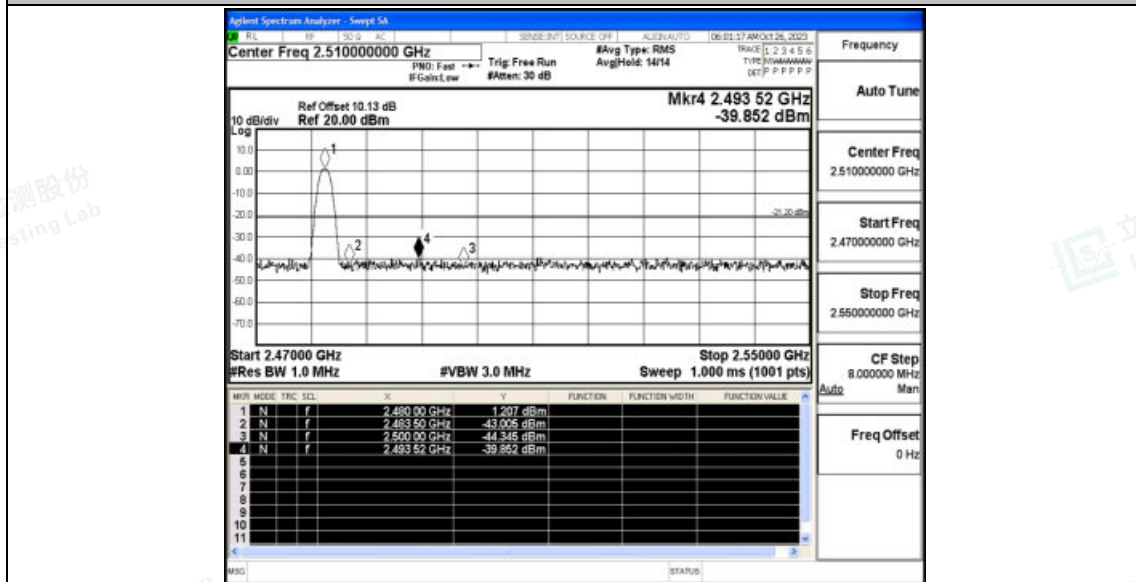
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

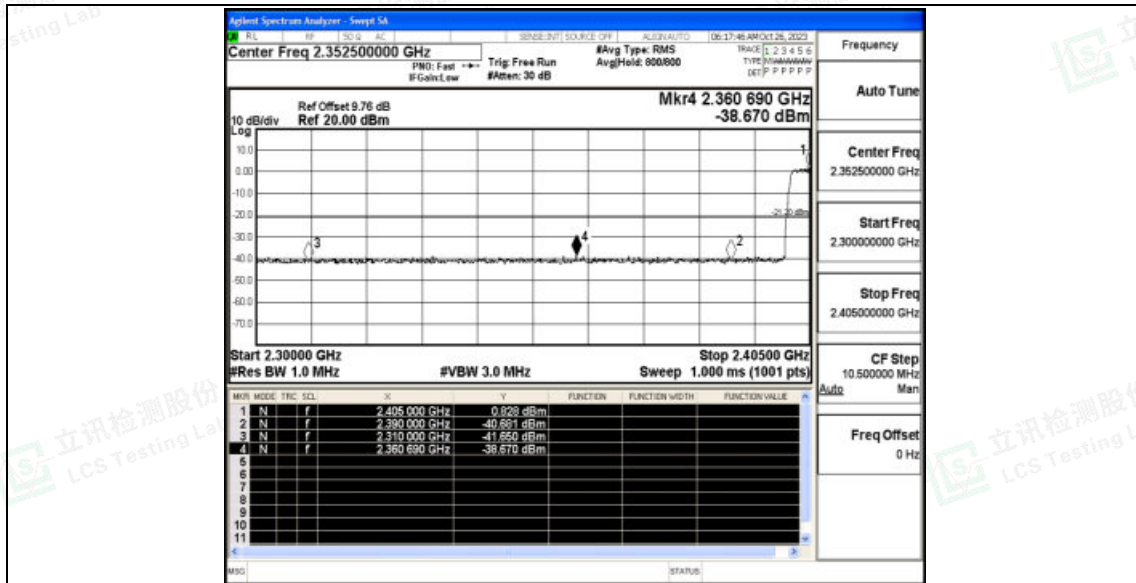


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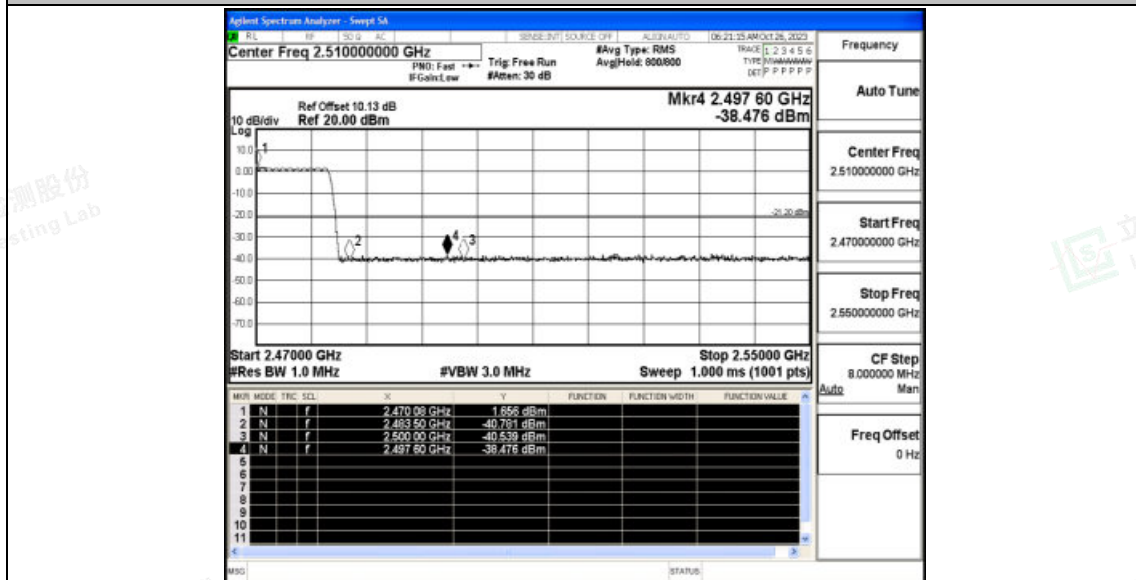
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

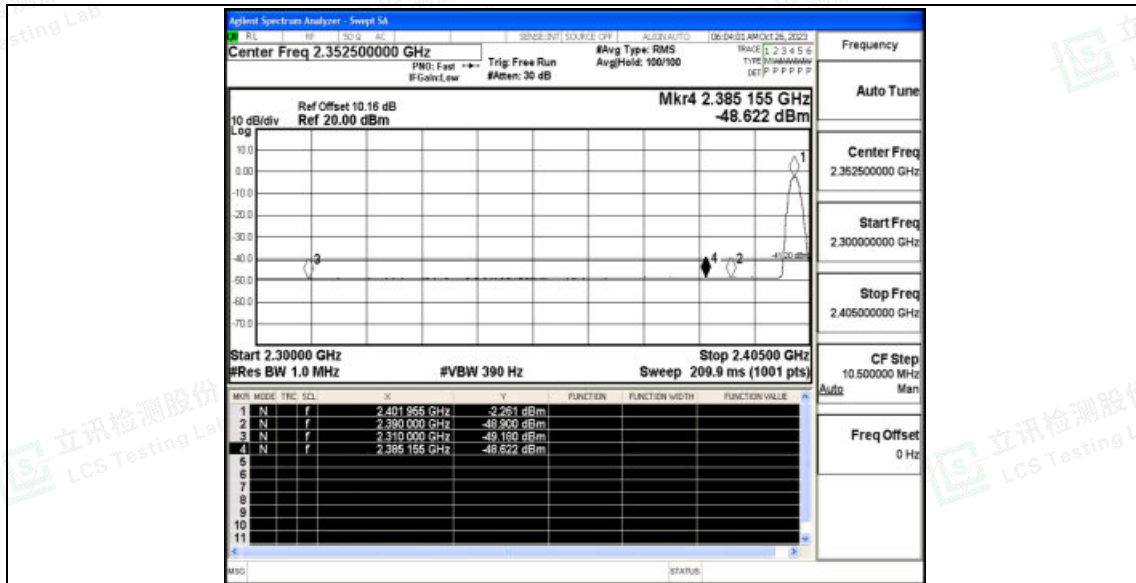


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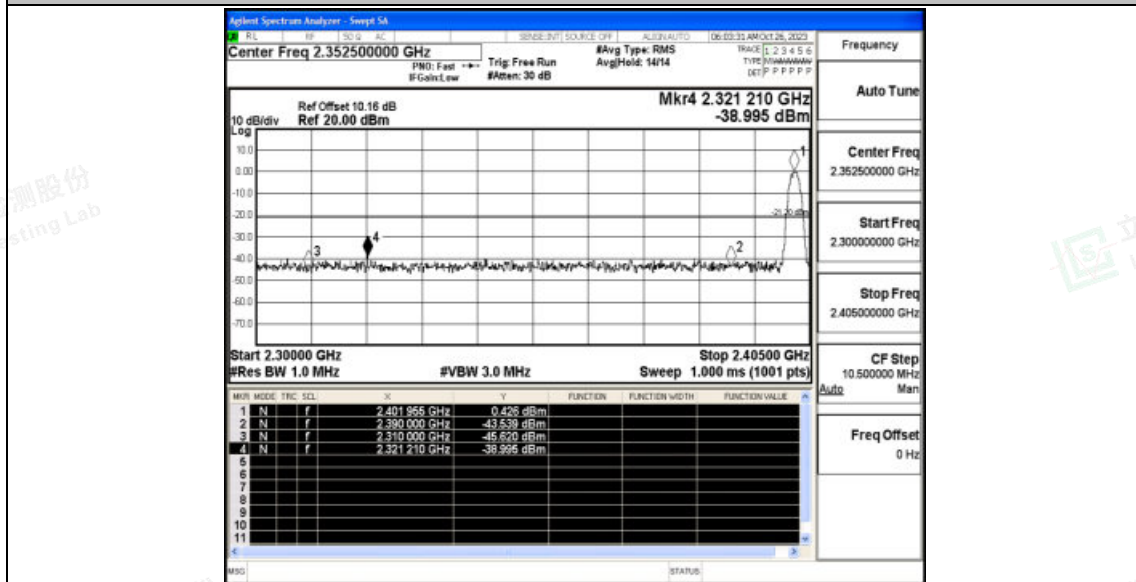
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

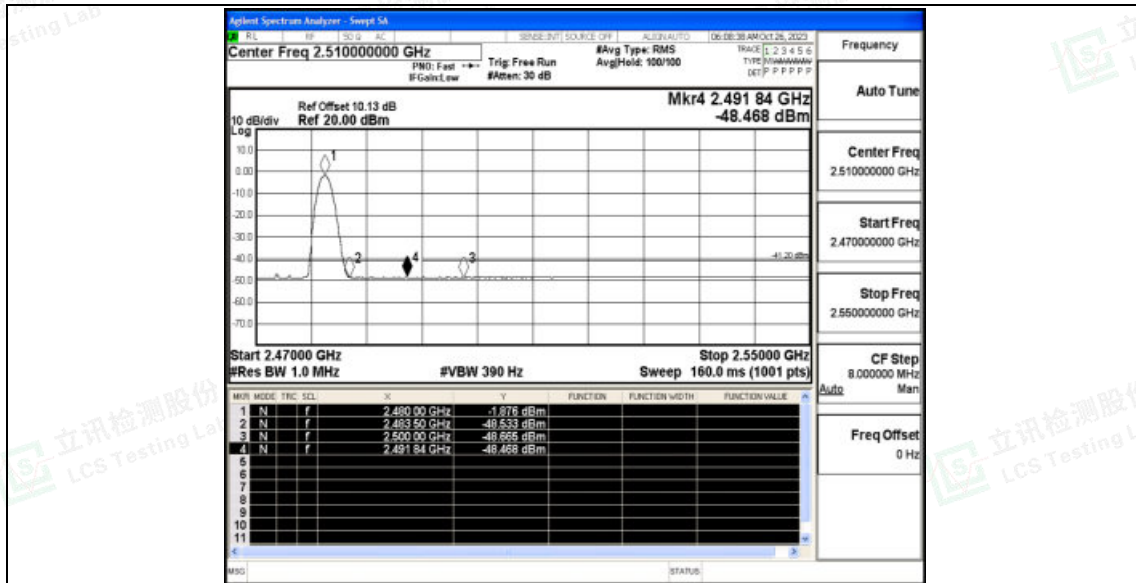


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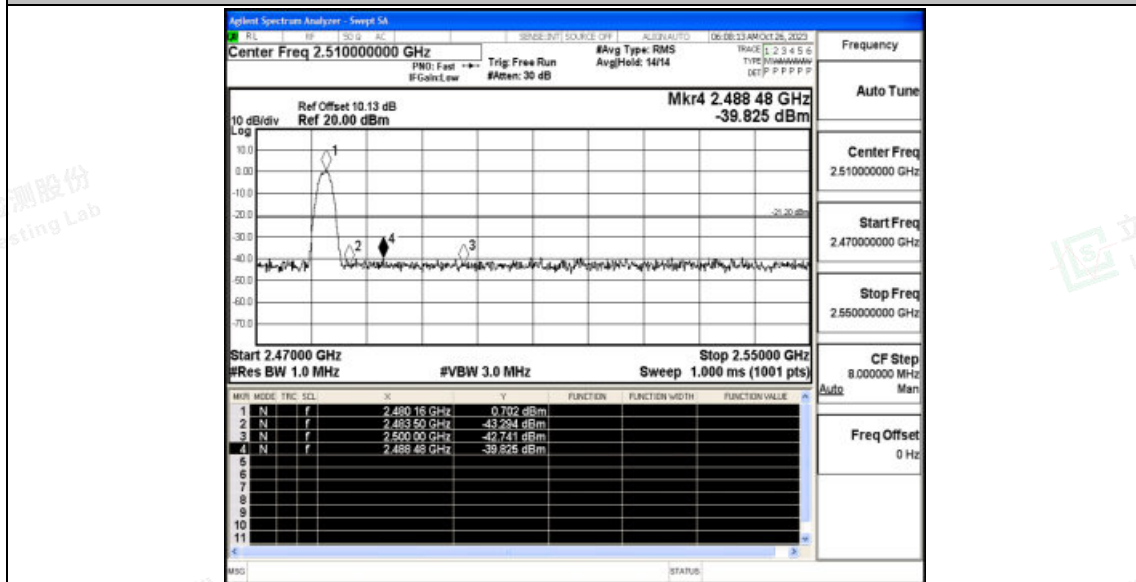
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

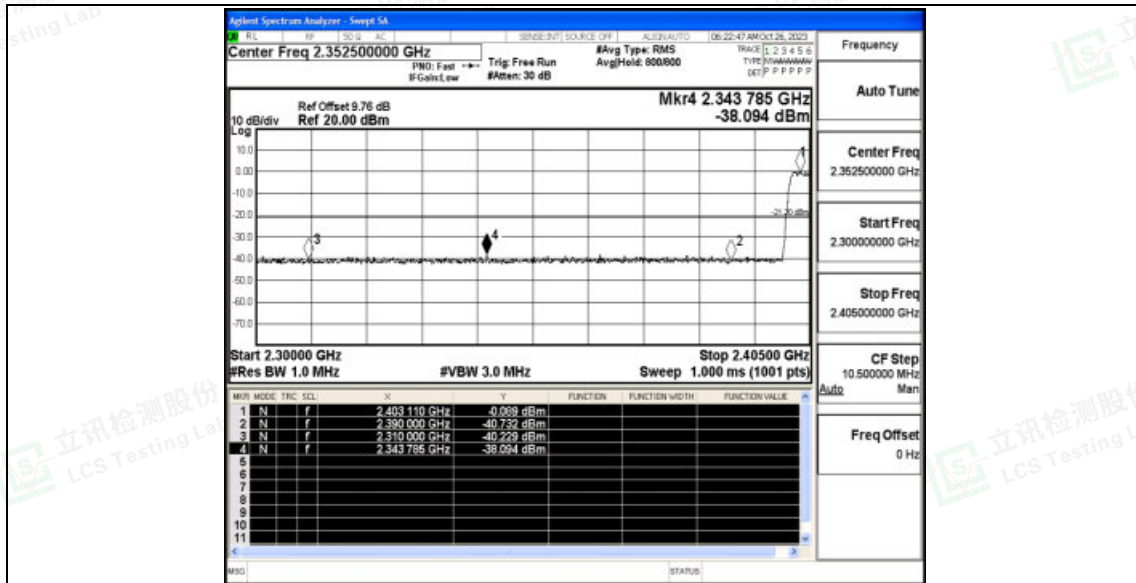


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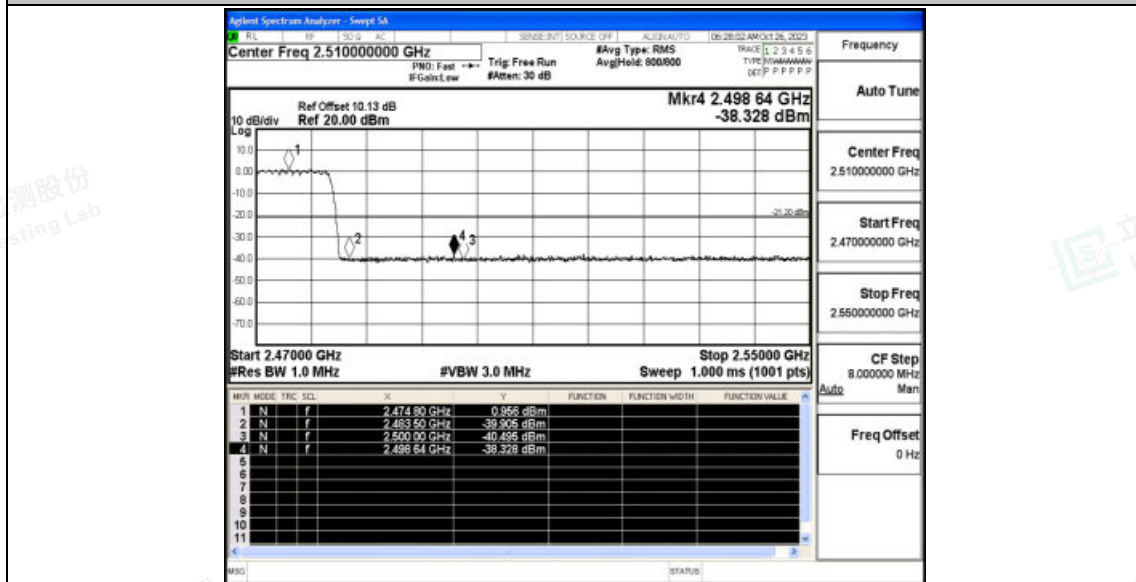
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

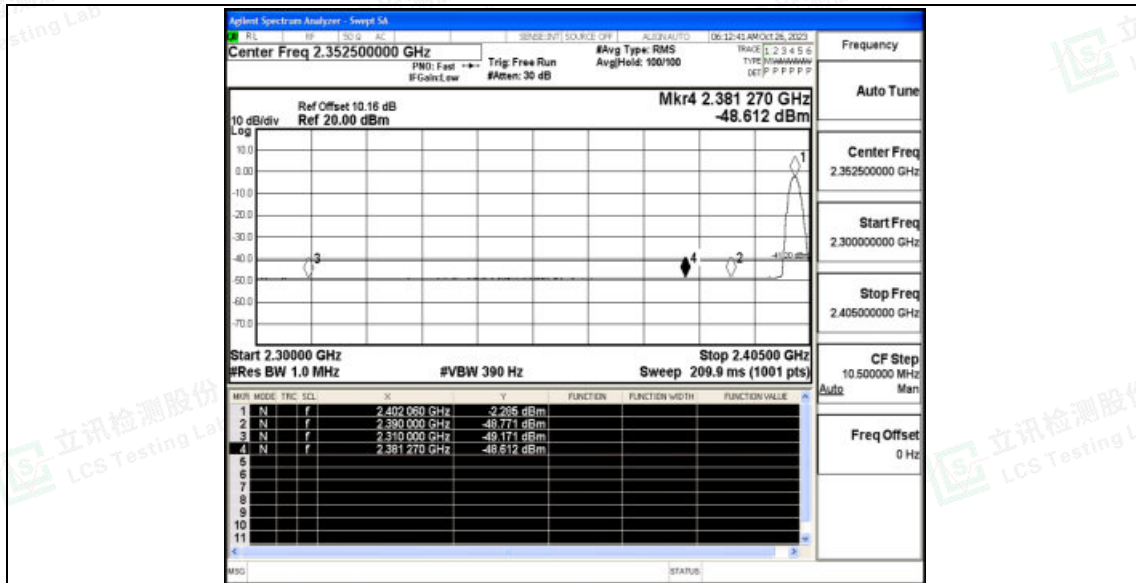


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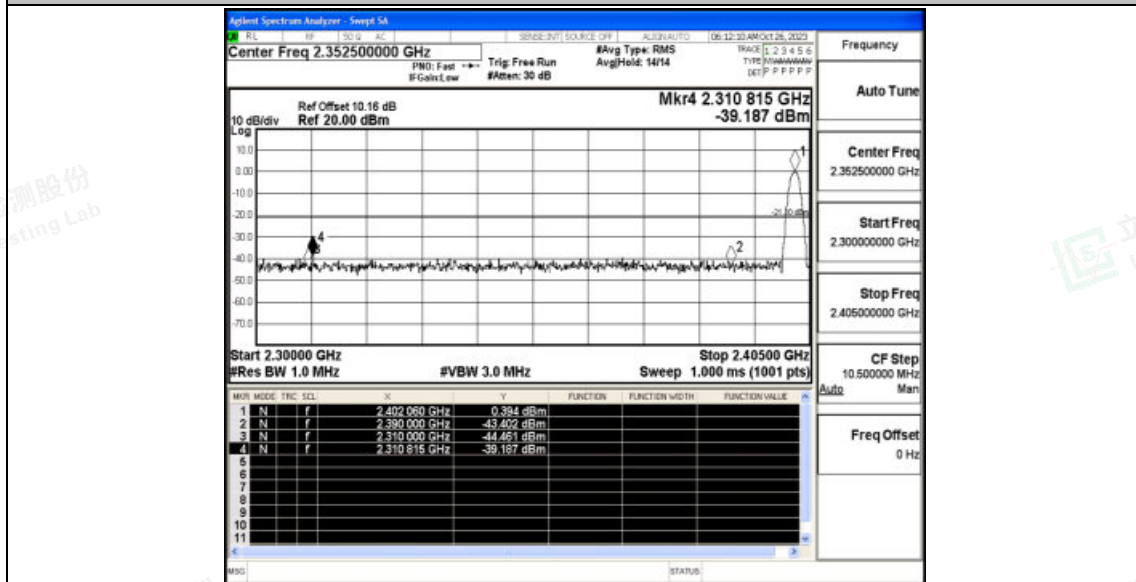
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

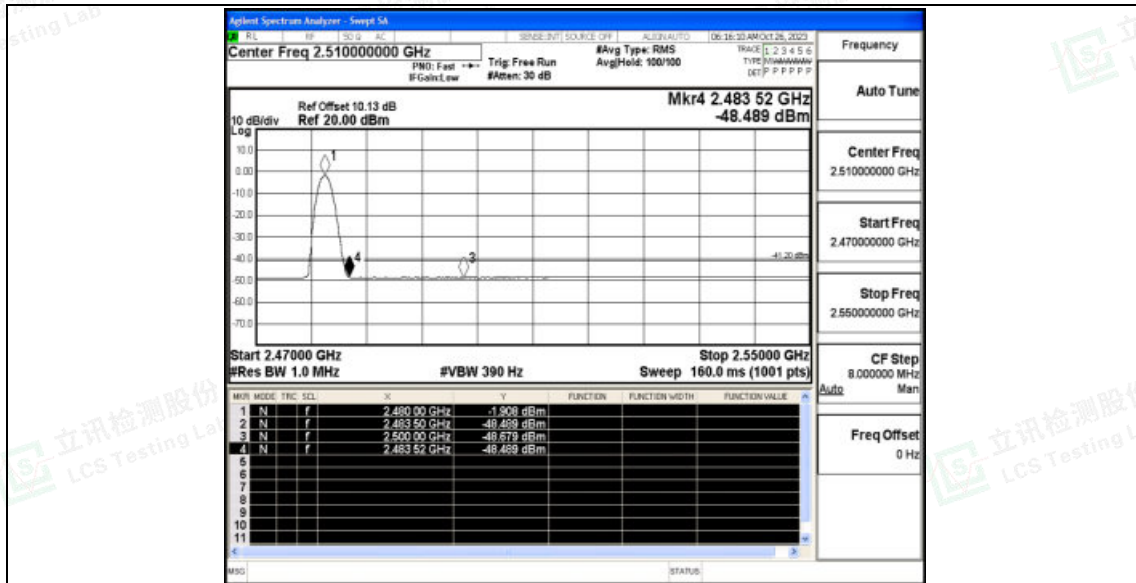


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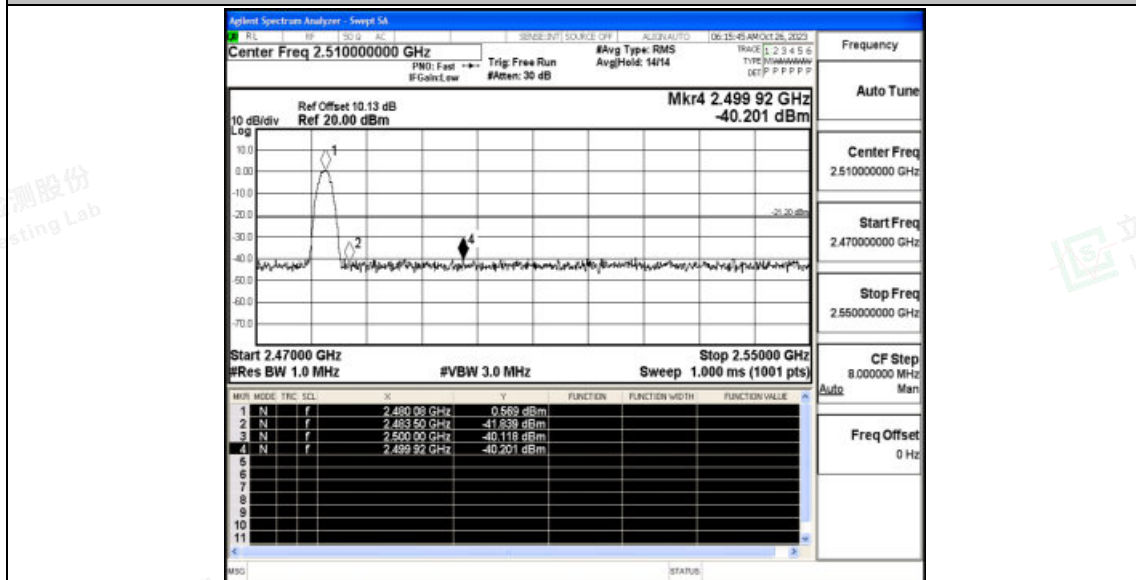
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

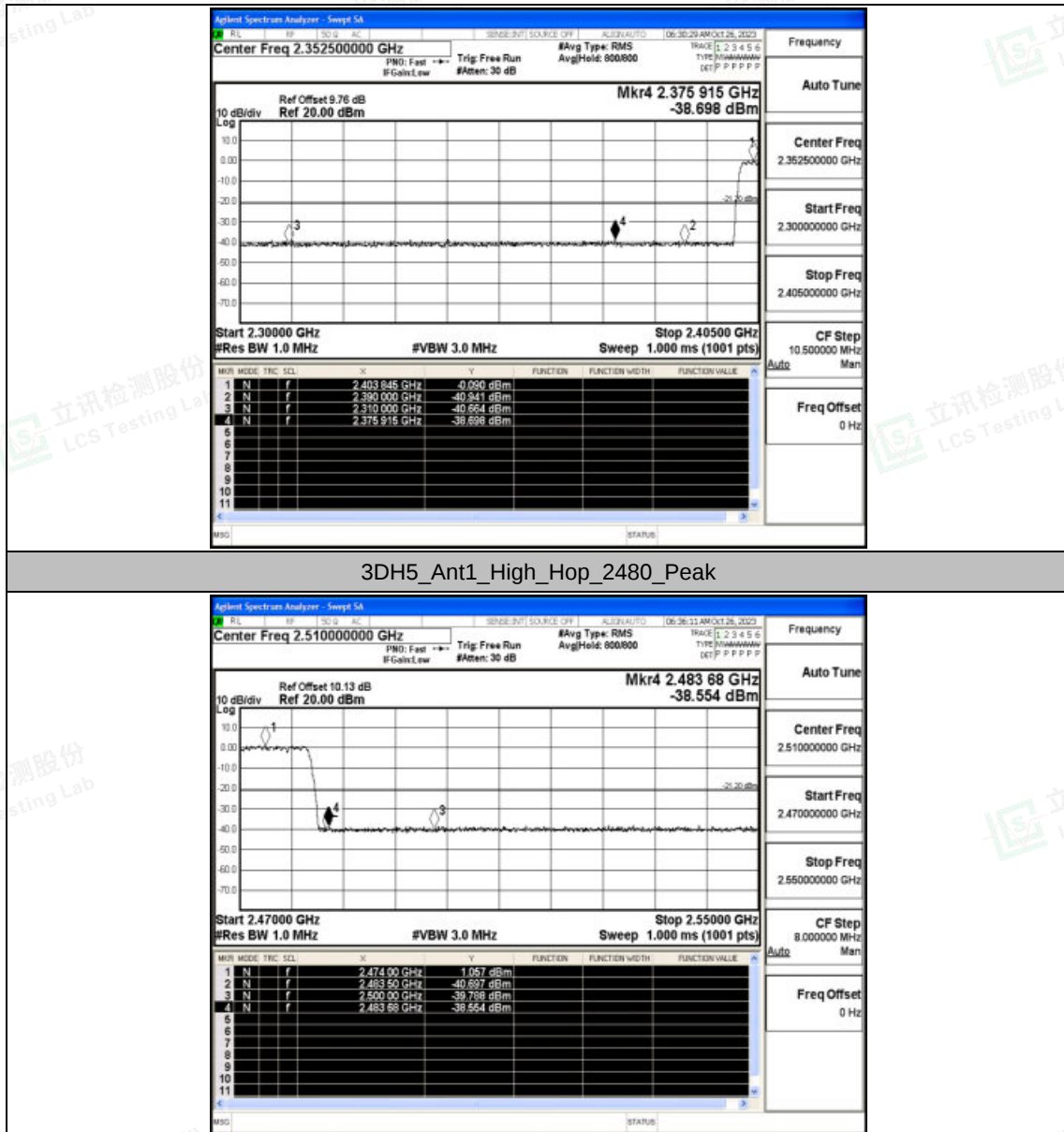


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