



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Treadmill

Test Model: P2-B

Environmental Conditions

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





A.1 20dB Emission Bandwidth

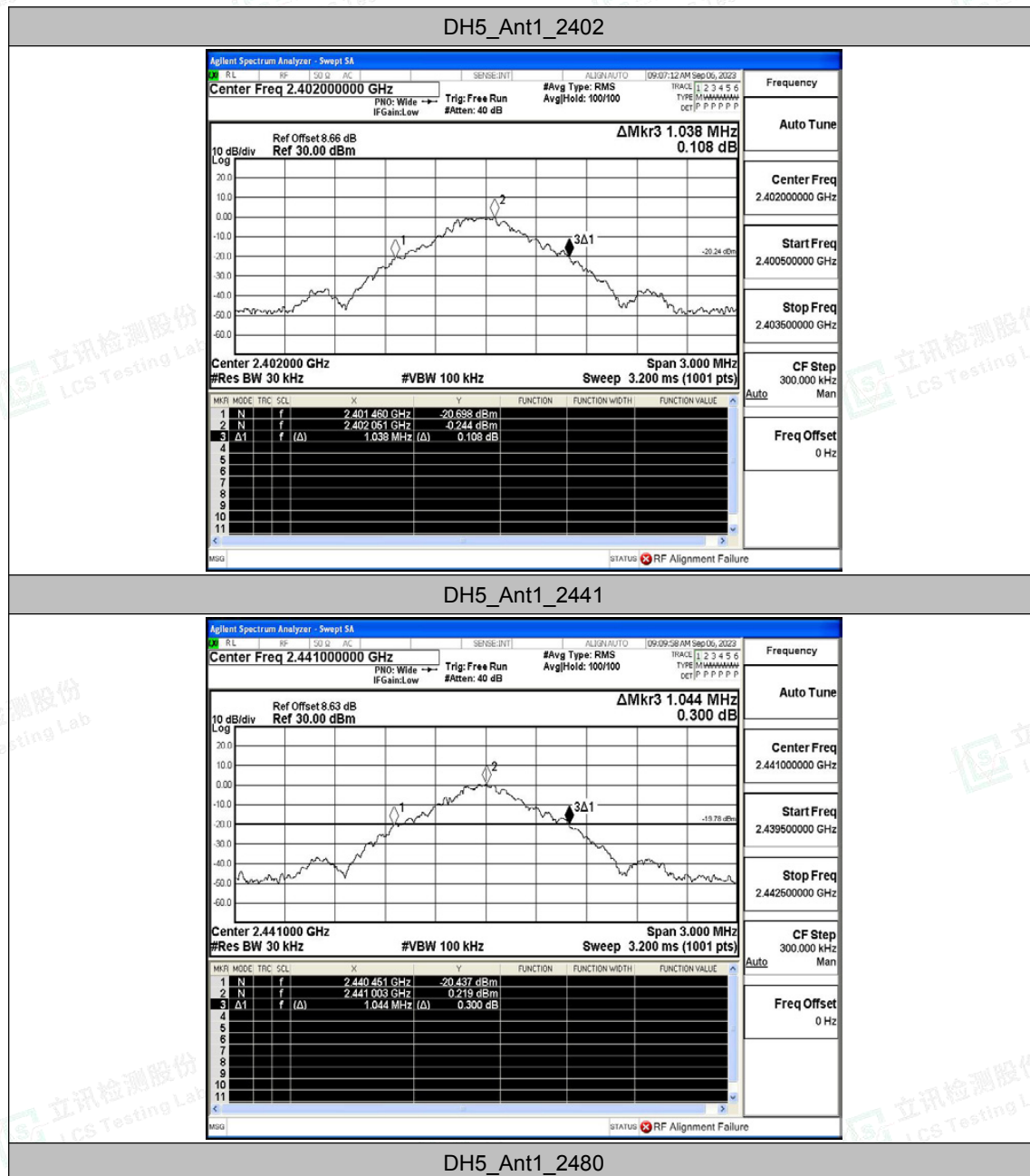
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.460	2402.498	---
		2441	1.044	2440.451	2441.495	---
		2480	1.032	2479.451	2480.483	---
2DH5	Ant1	2402	1.338	2401.319	2402.657	---
		2441	1.290	2440.349	2441.639	---
		2480	1.296	2479.346	2480.642	---
3DH5	Ant1	2402	1.290	2401.334	2402.624	---
		2441	1.320	2440.328	2441.648	---
		2480	1.305	2479.337	2480.642	---





Test Graphs

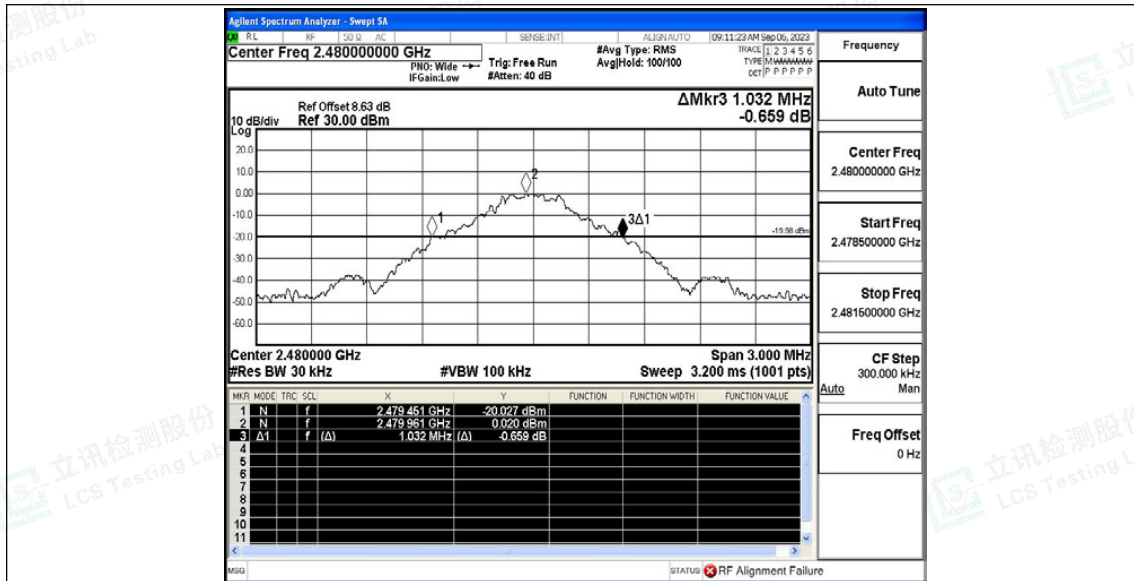


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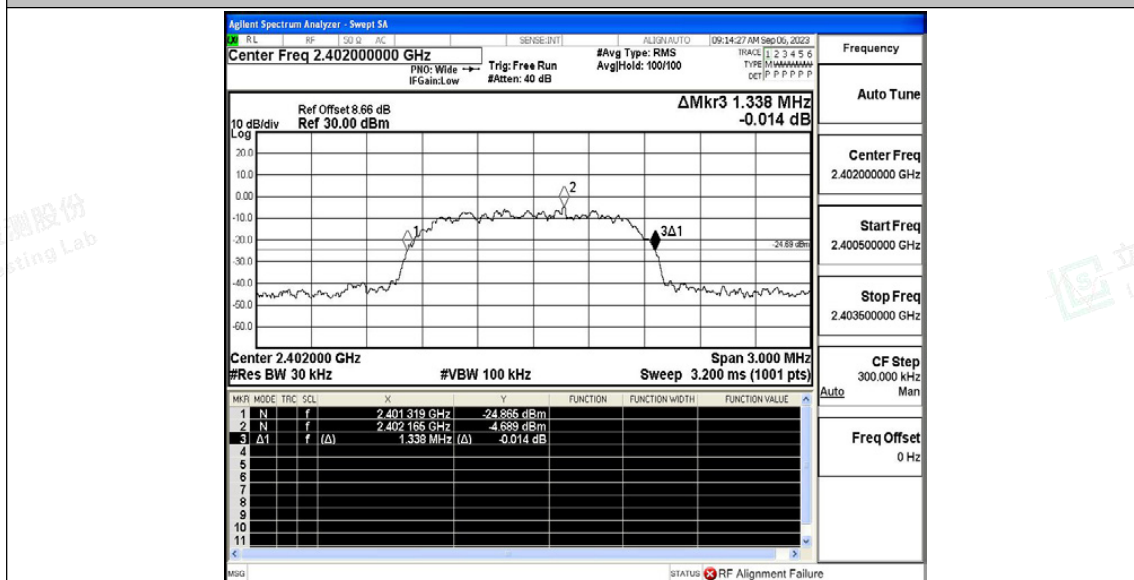
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

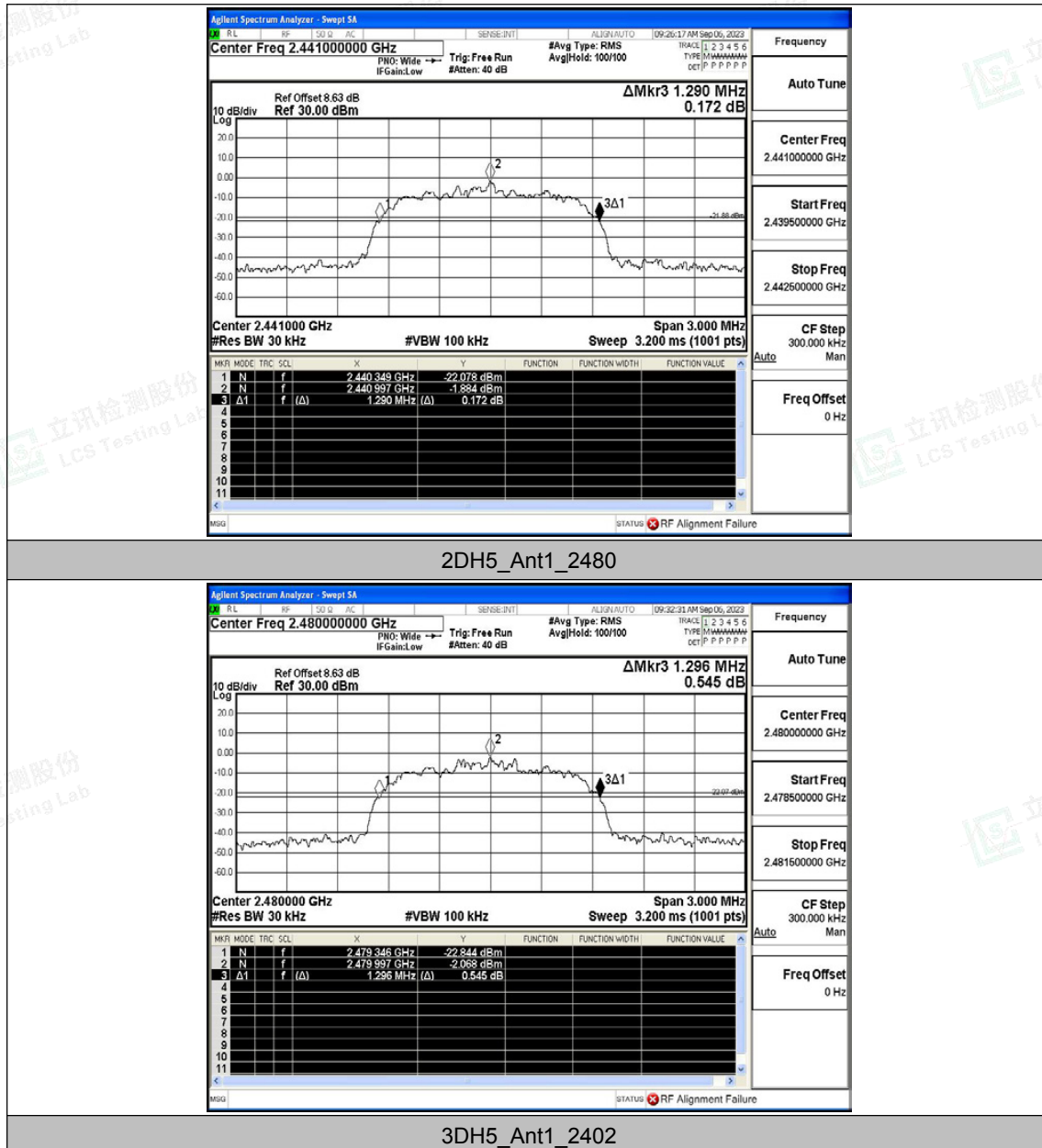


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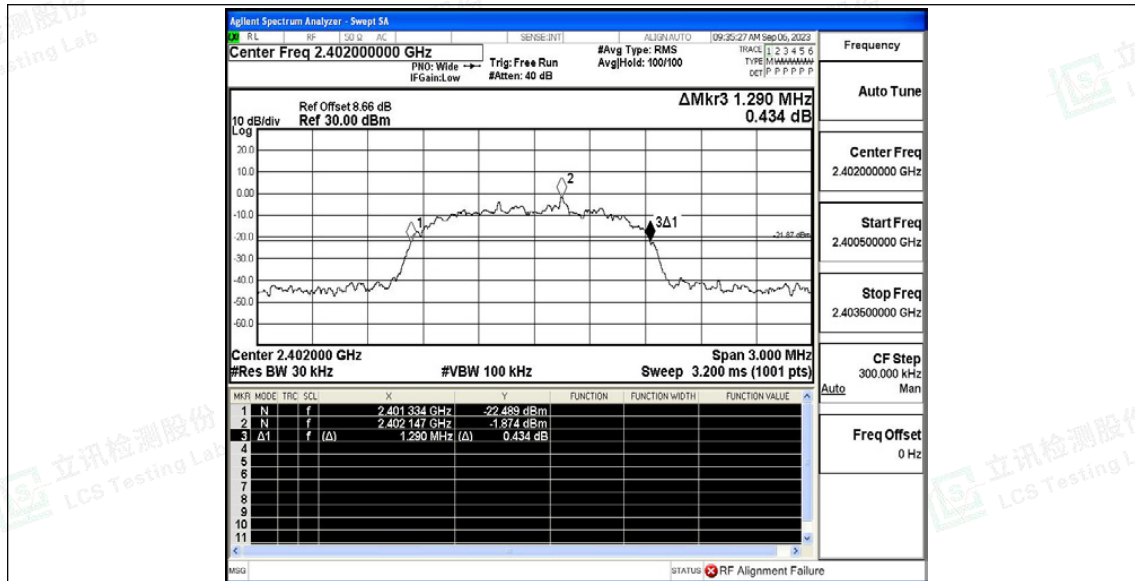


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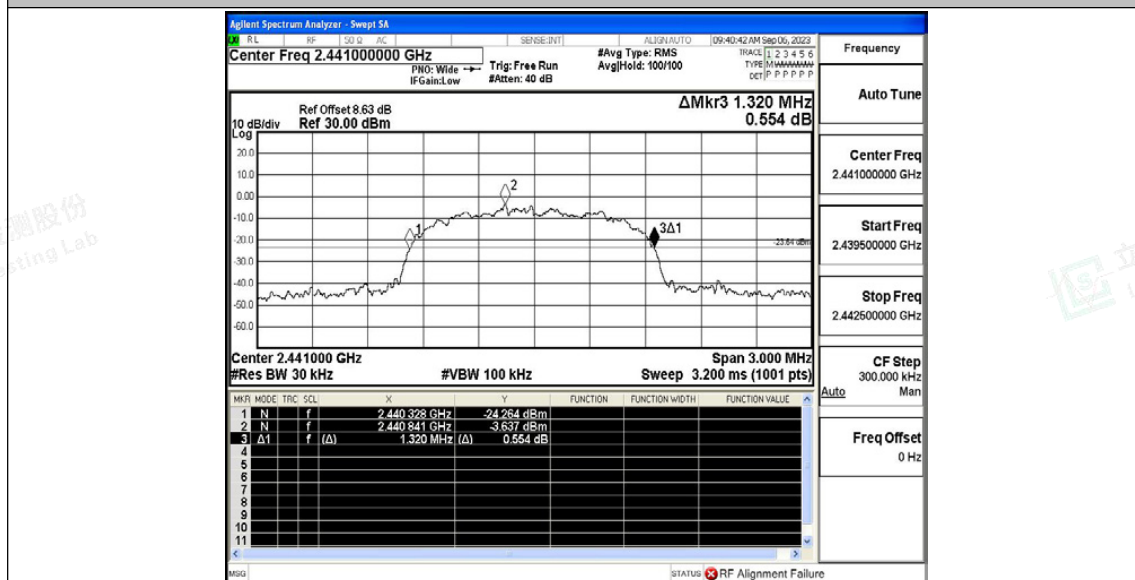
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3DH5_Ant1_2441



3DH5_Ant1_2480

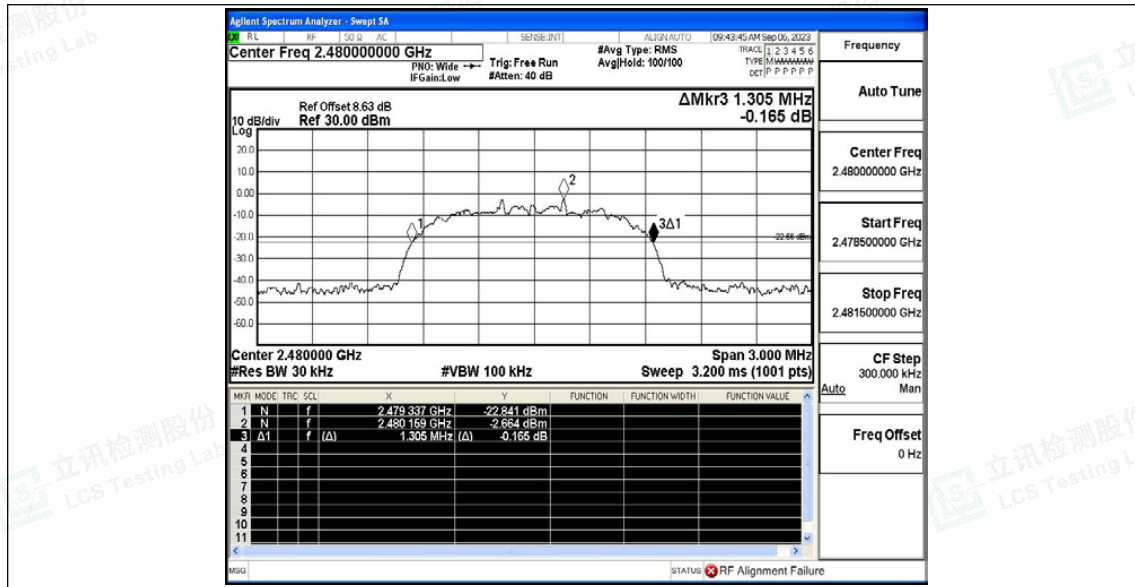


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A.2 Occupied Channel Bandwidth

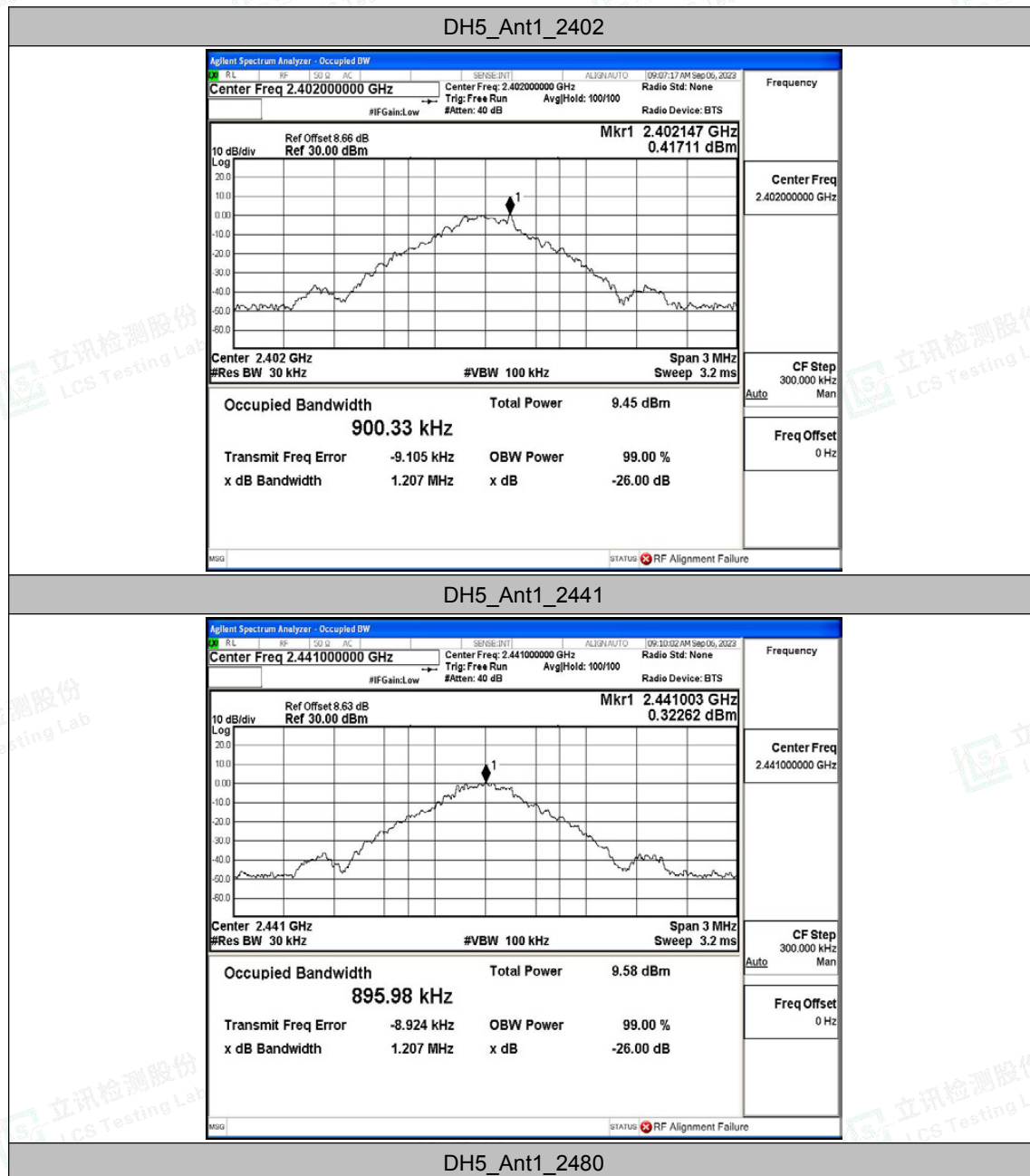
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90033	2401.5407	2402.4411	---	---
		2441	0.89598	2440.5431	2441.4391	---	---
		2480	0.88020	2479.5493	2480.4295	---	---
2DH5	Ant1	2402	1.1847	2401.3933	2402.5780	---	---
		2441	1.1901	2440.3949	2441.5850	---	---
		2480	1.1886	2479.3942	2480.5828	---	---
3DH5	Ant1	2402	1.1795	2401.3991	2402.5786	---	---
		2441	1.1795	2440.3991	2441.5786	---	---
		2480	1.1989	2479.3878	2480.5867	---	---





Test Graphs

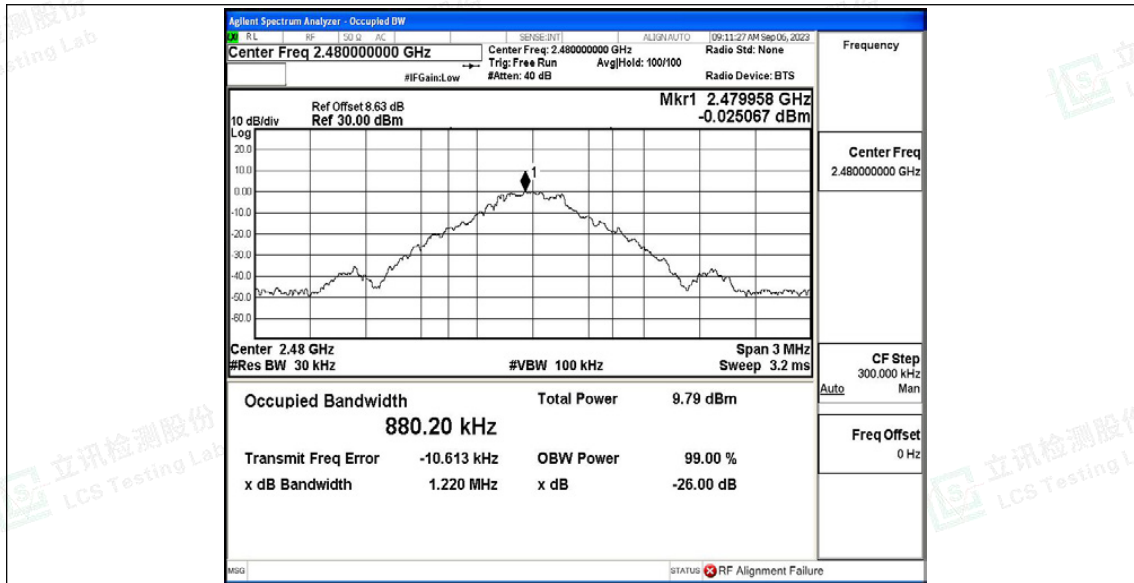


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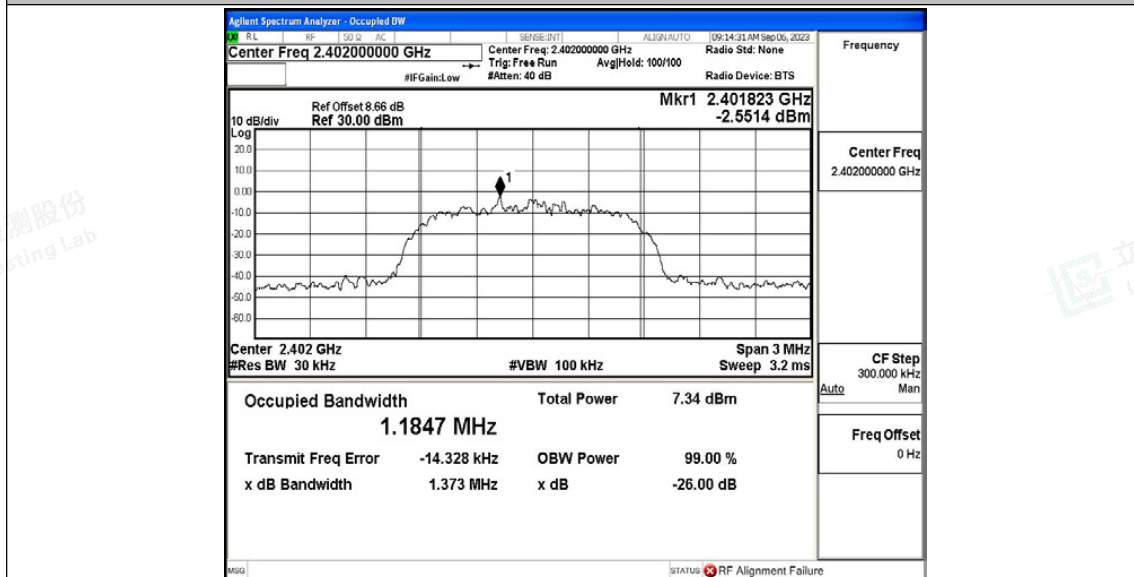
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2DH5_Ant1_2402



2DH5_Ant1_2441

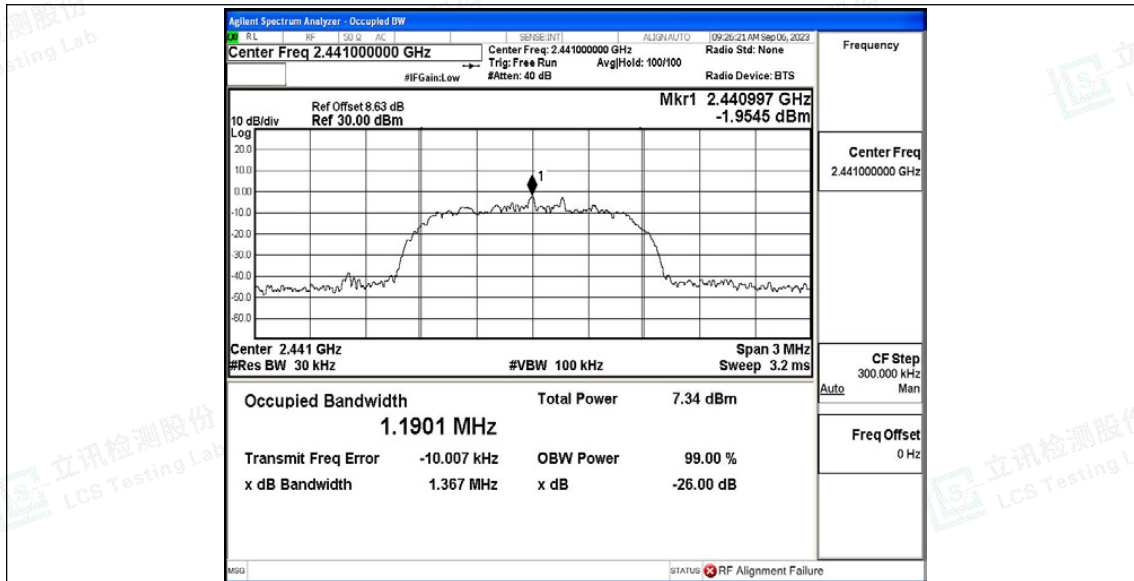


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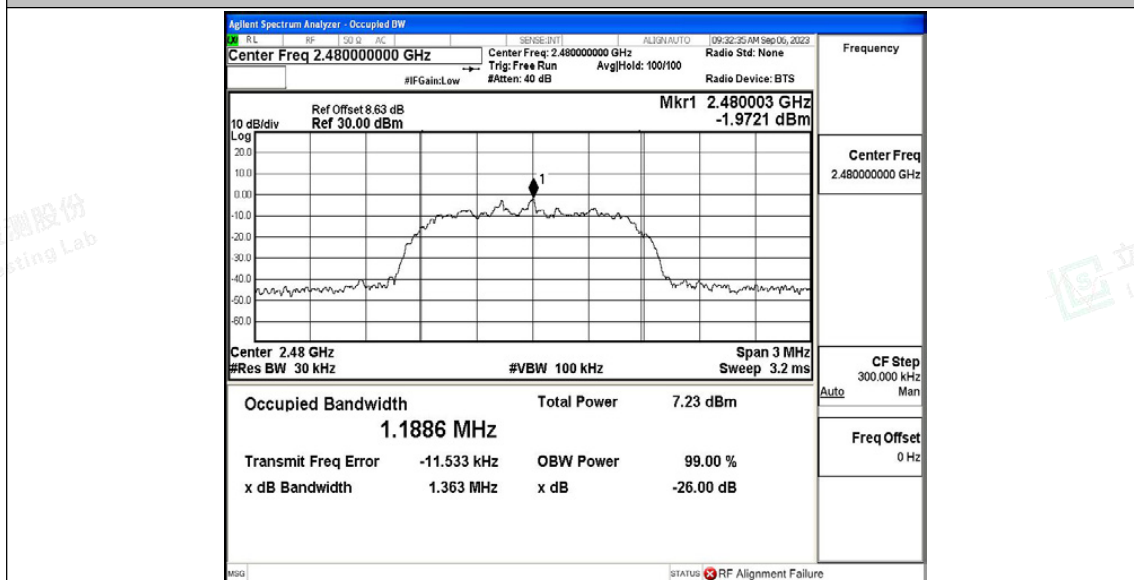
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2DH5_Ant1_2480



3DH5_Ant1_2402

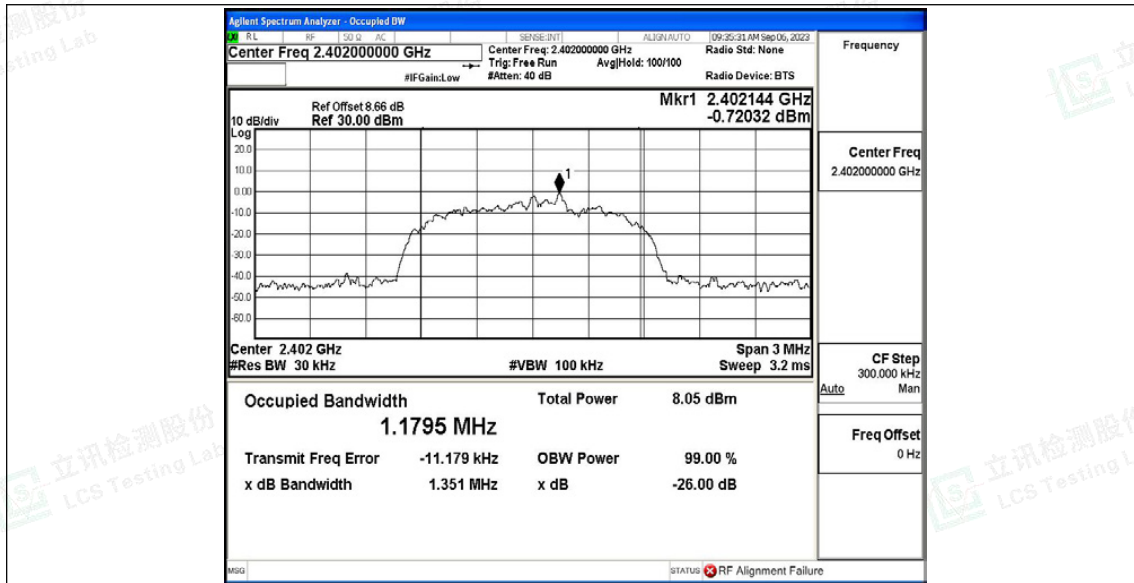


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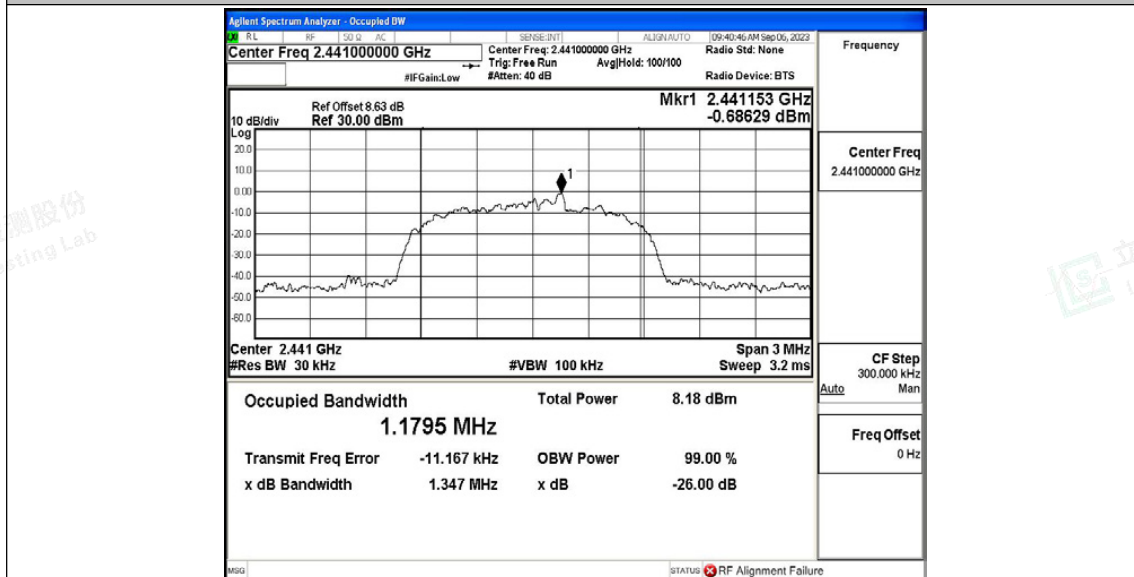
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3DH5_Ant1_2441



3DH5_Ant1_2480

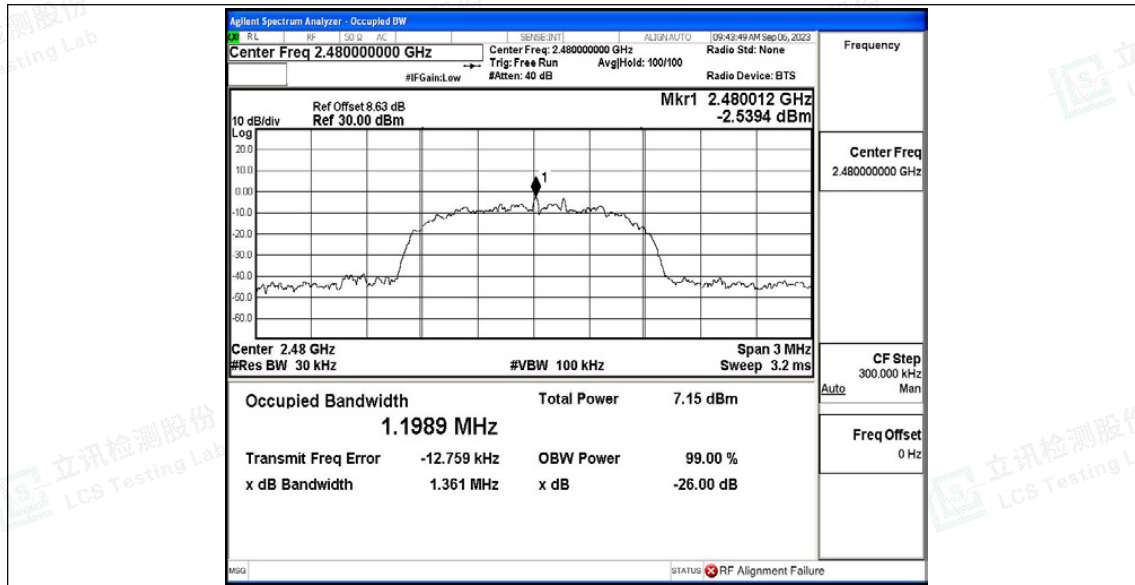


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A.3 Maximum Peak conducted output power

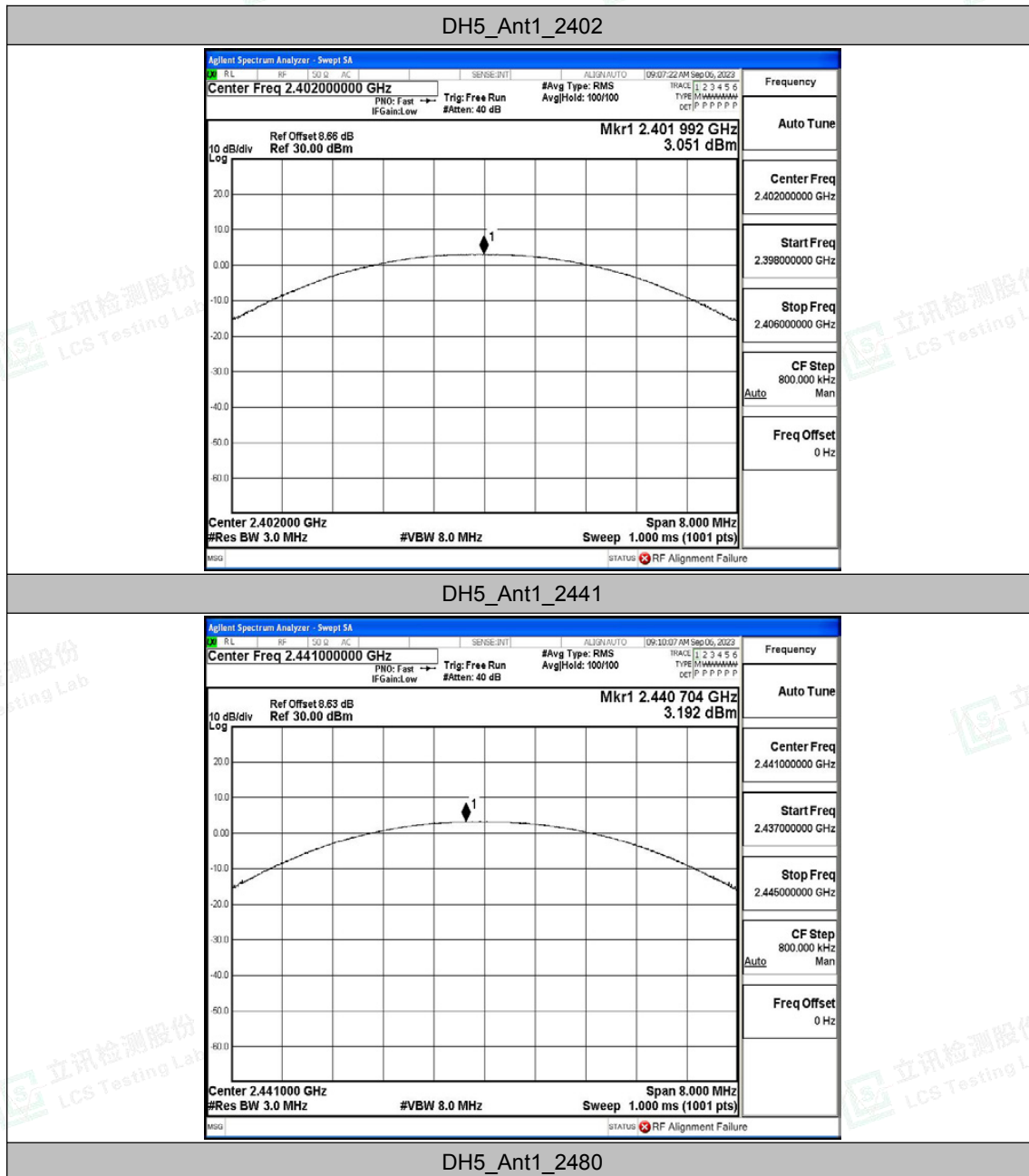
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.05	≤21	PASS
		2441	3.19	≤21	PASS
		2480	2.99	≤21	PASS
2DH5	Ant1	2402	2.88	≤21	PASS
		2441	2.94	≤21	PASS
		2480	2.83	≤21	PASS
3DH5	Ant1	2402	2.98	≤21	PASS
		2441	3.13	≤21	PASS
		2480	2.97	≤21	PASS





Test Graphs

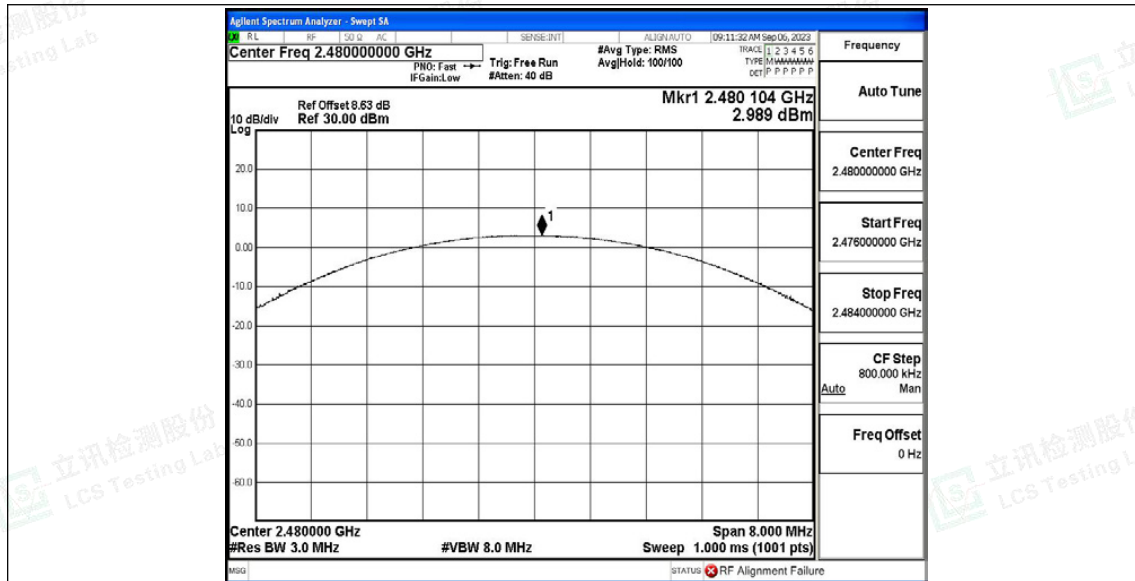


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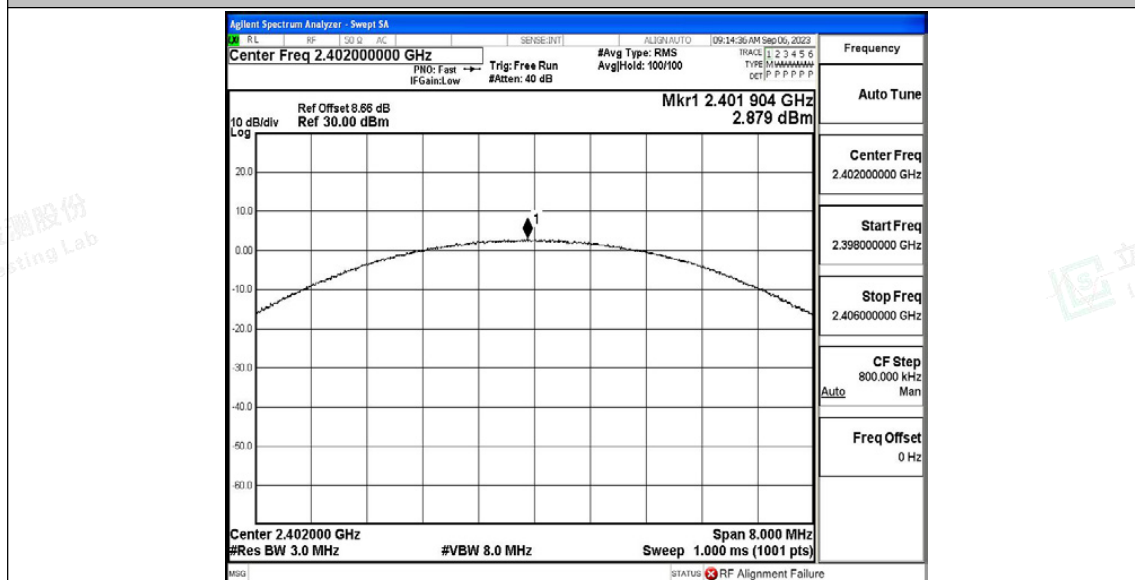
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2DH5_Ant1_2402



2DH5_Ant1_2441

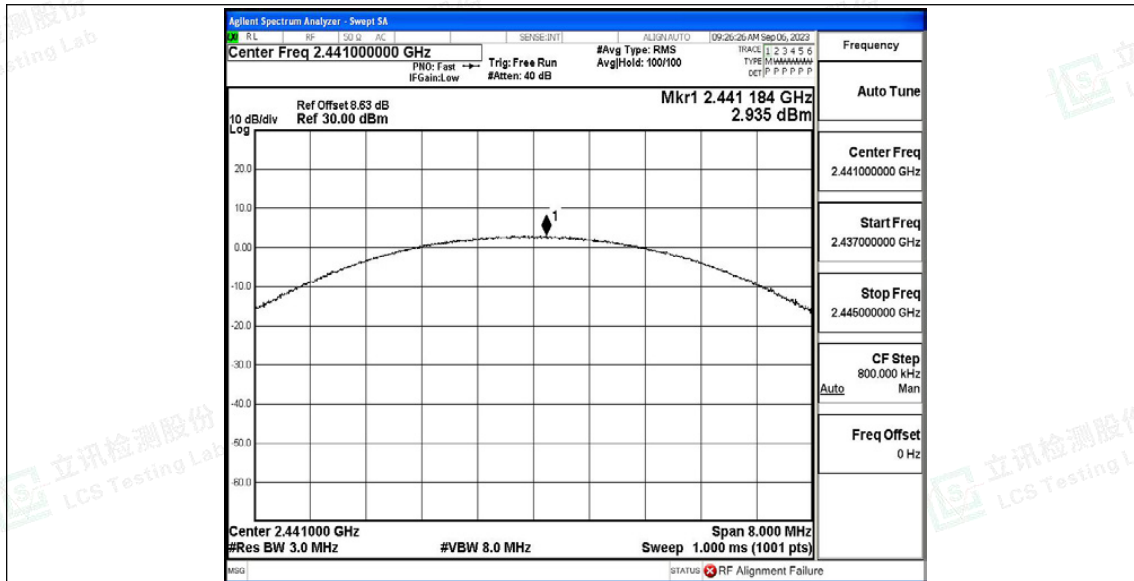


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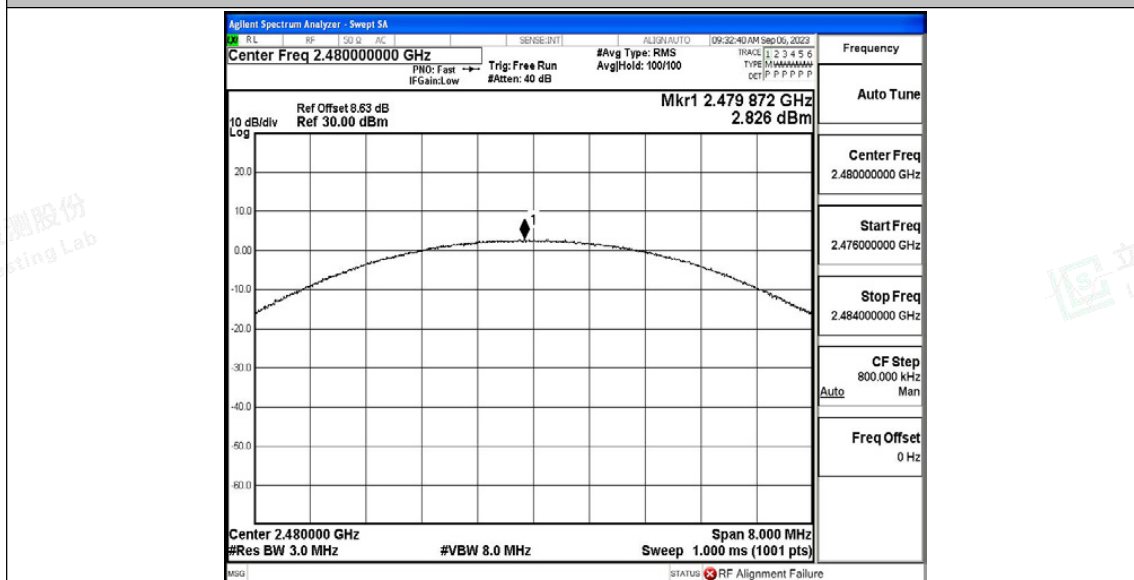
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2DH5_Ant1_2480



3DH5_Ant1_2402

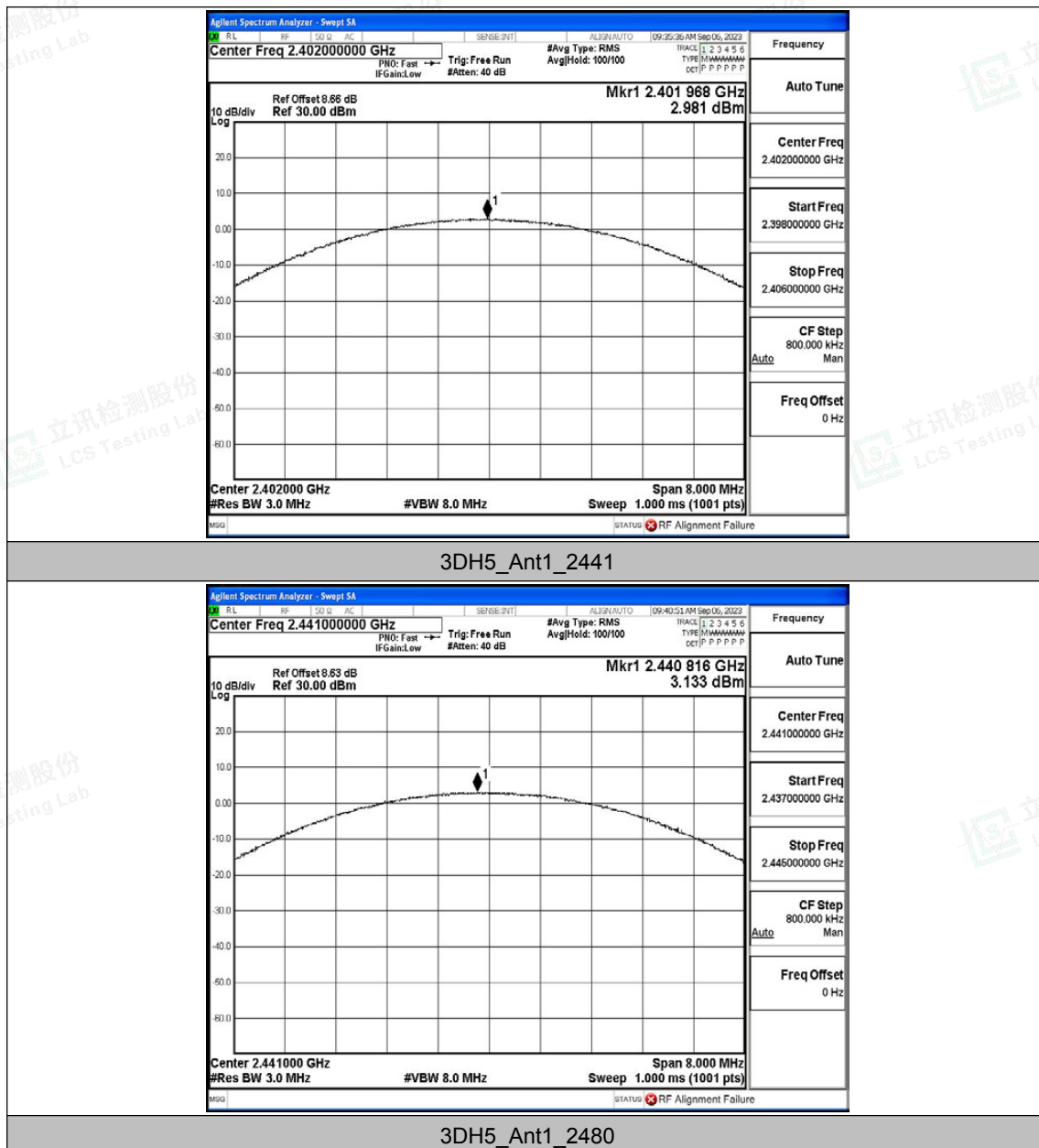


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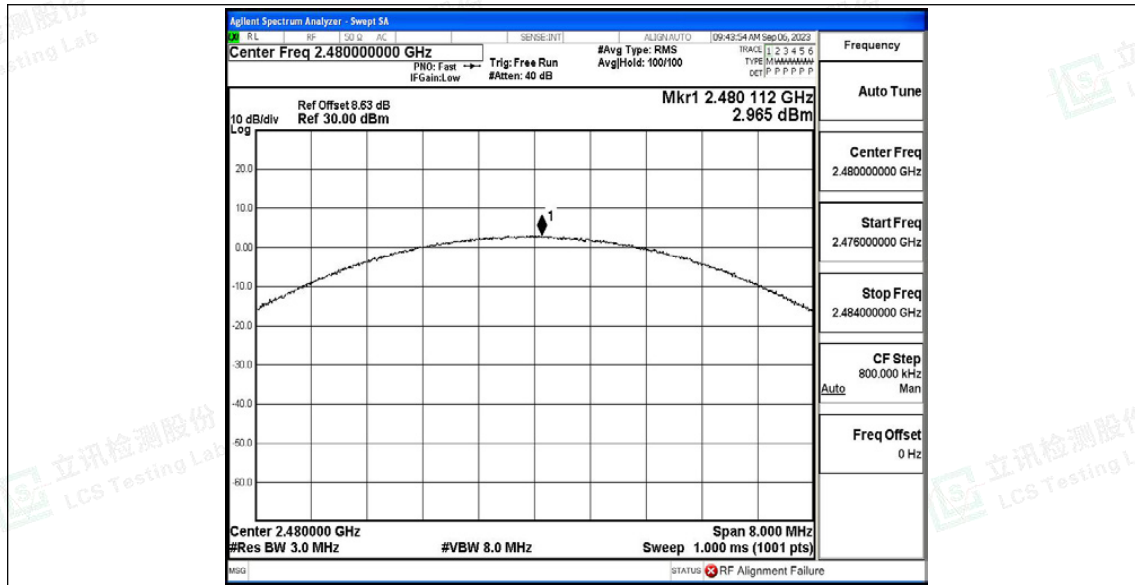


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A.4 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.818	≥ 0.696	PASS
2DH5	Ant1	Hop	1.17	≥ 0.892	PASS
3DH5	Ant1	Hop	0.978	≥ 0.880	PASS





Test Graphs

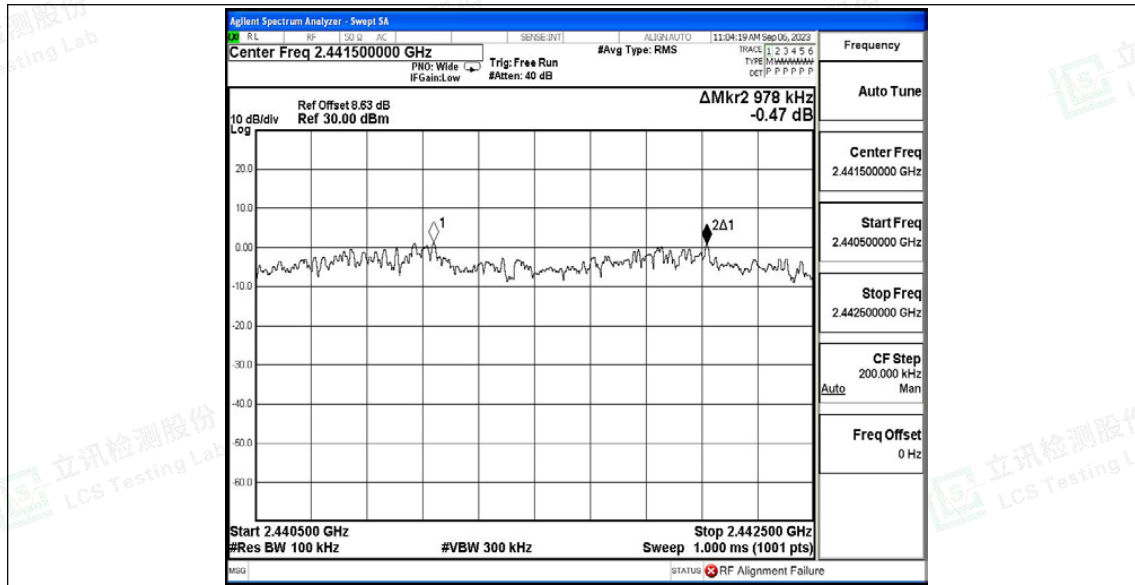


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A.5 Time of occupancy

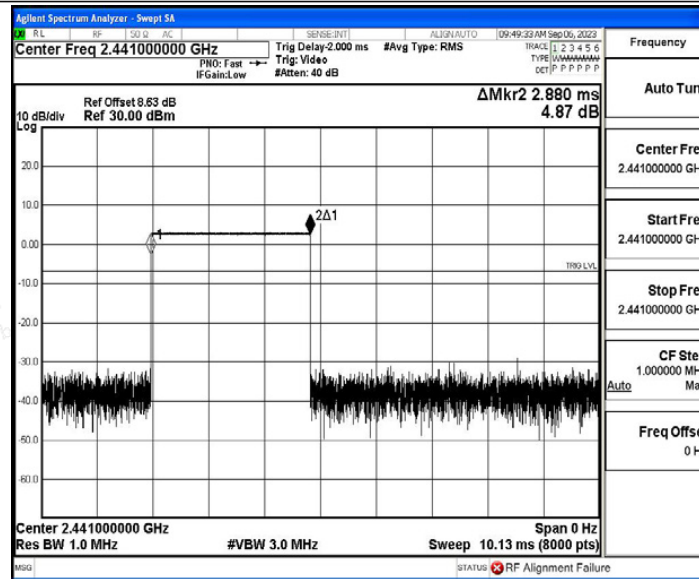
Test Result

TestMode	Antenna	Channel	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

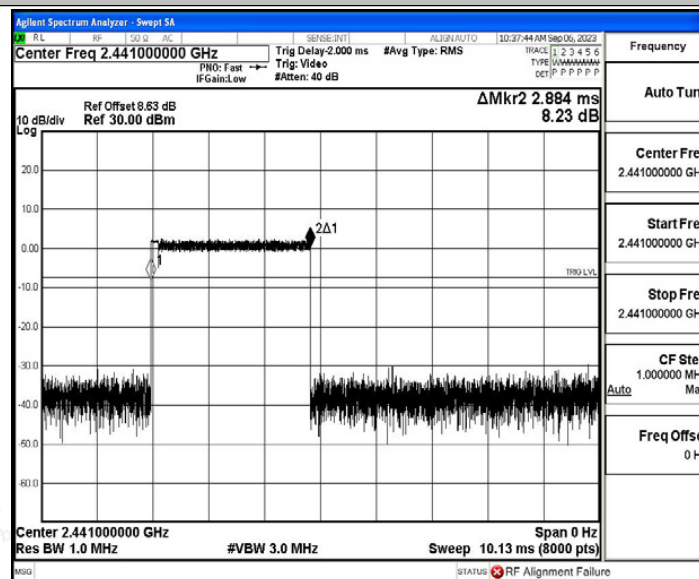




DH5_Ant1_Hop



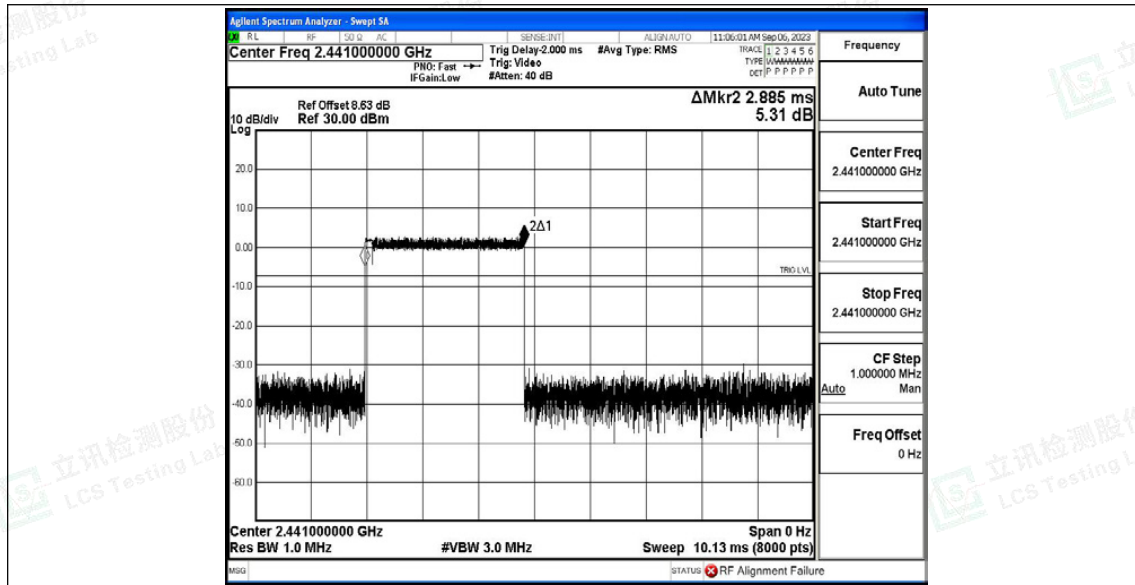
2DH5_Ant1_Hop



3DH5_Ant1_Hop



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A.6 Number of hopping channels

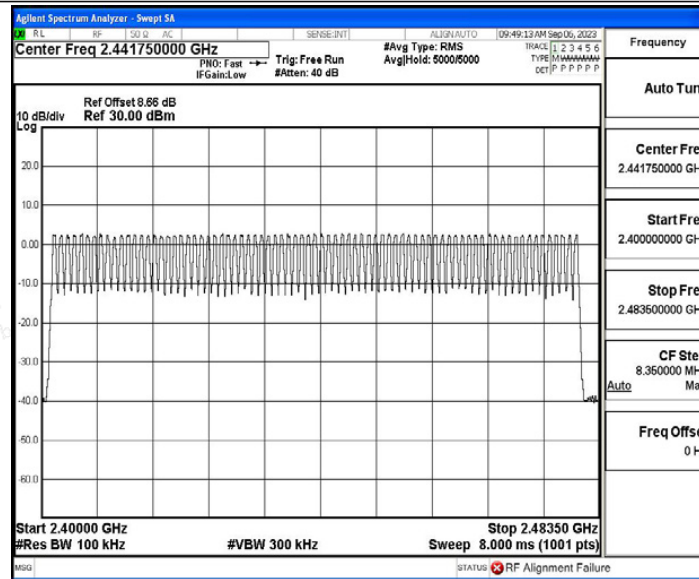
Test Result

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

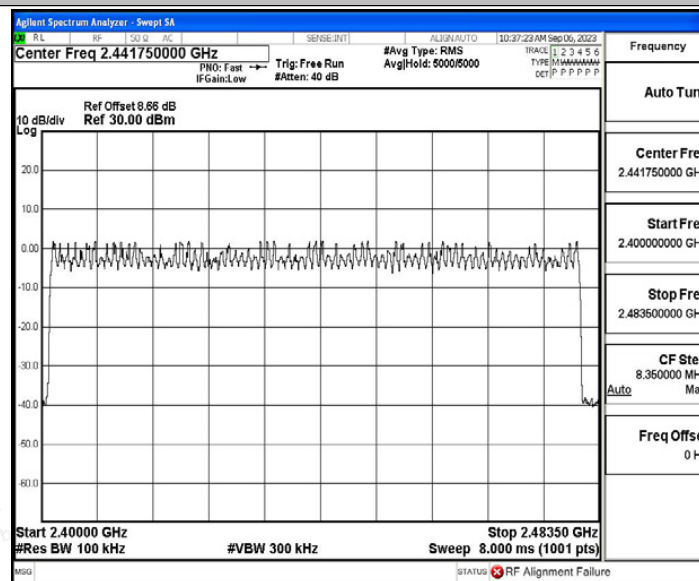




DH5_Ant1_Hop



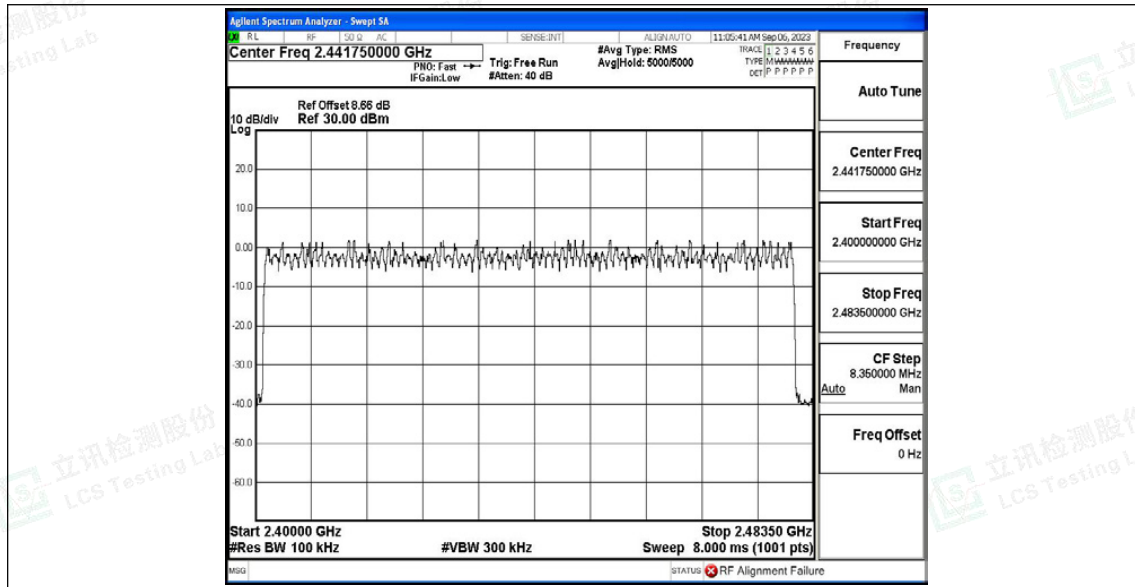
2DH5_Ant1_Hop



3DH5_Ant1_Hop



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A.7 Band edge measurements

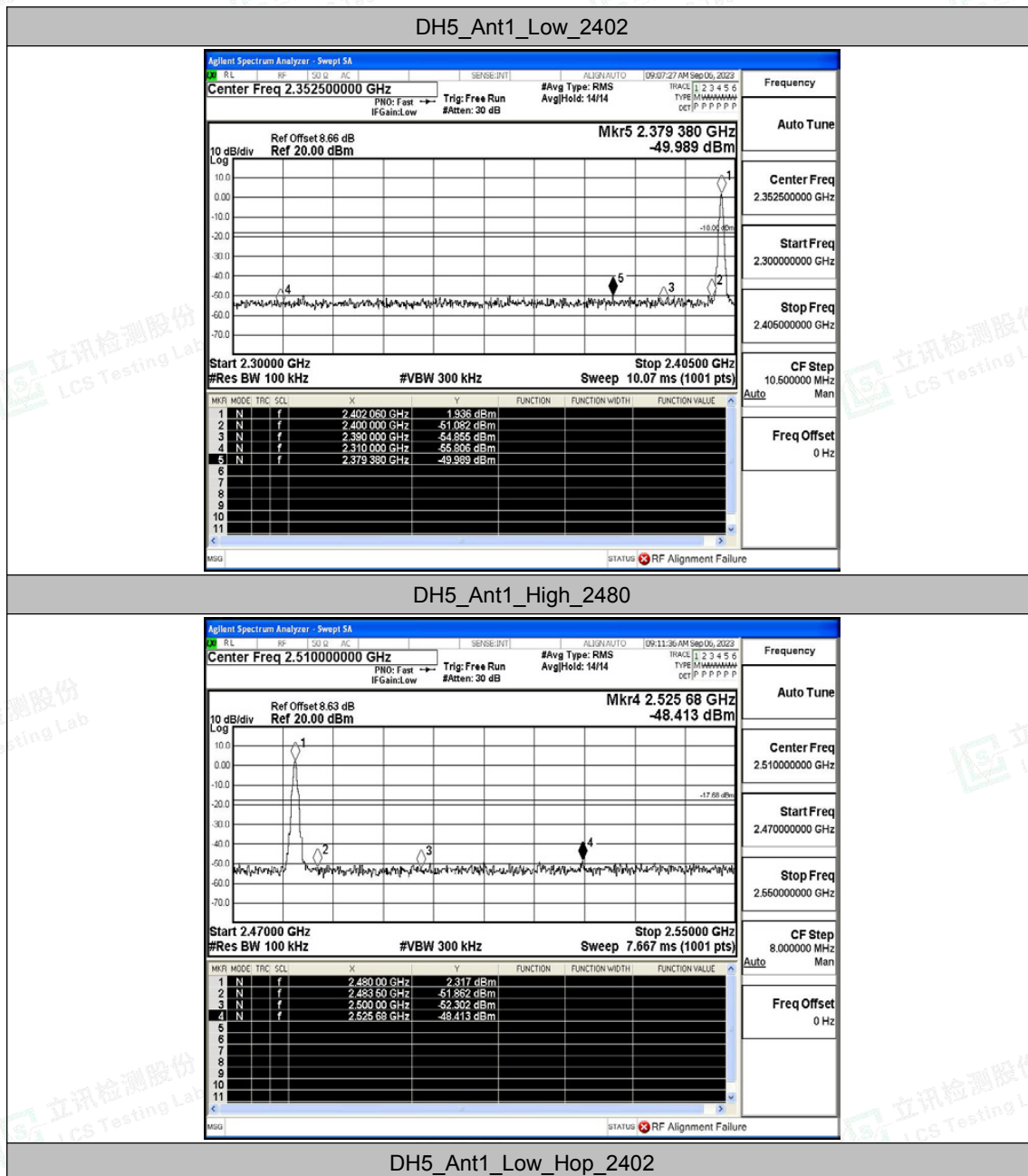
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.94	-49.99	≤-18.06	PASS
		High	2480	2.32	-48.41	≤-17.68	PASS
		Low	Hop_2402	2.17	-48.95	≤-17.83	PASS
		High	Hop_2480	2.47	-47.55	≤-17.53	PASS
2DH5	Ant1	Low	2402	-2.62	-49.13	≤-22.62	PASS
		High	2480	0.06	-48.96	≤-19.94	PASS
		Low	Hop_2402	-0.31	-48.97	≤-20.31	PASS
		High	Hop_2480	1.18	-47.74	≤-18.83	PASS
3DH5	Ant1	Low	2402	1.42	-50.27	≤-18.58	PASS
		High	2480	-2.25	-49.1	≤-22.25	PASS
		Low	Hop_2402	-1.81	-48.54	≤-21.81	PASS
		High	Hop_2480	1.78	-47.42	≤-18.23	PASS





Test Graphs

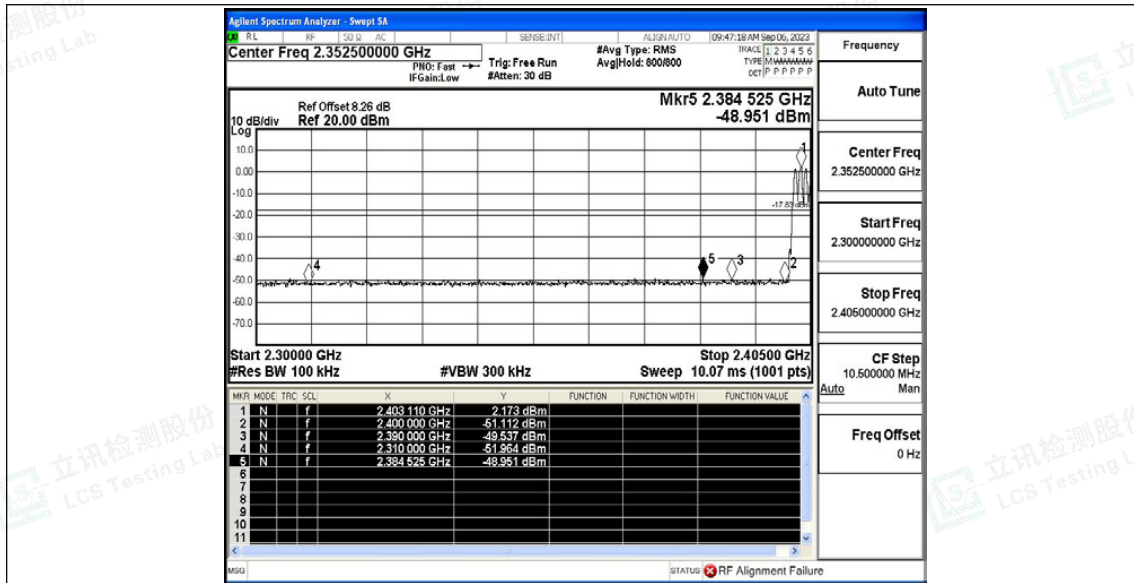


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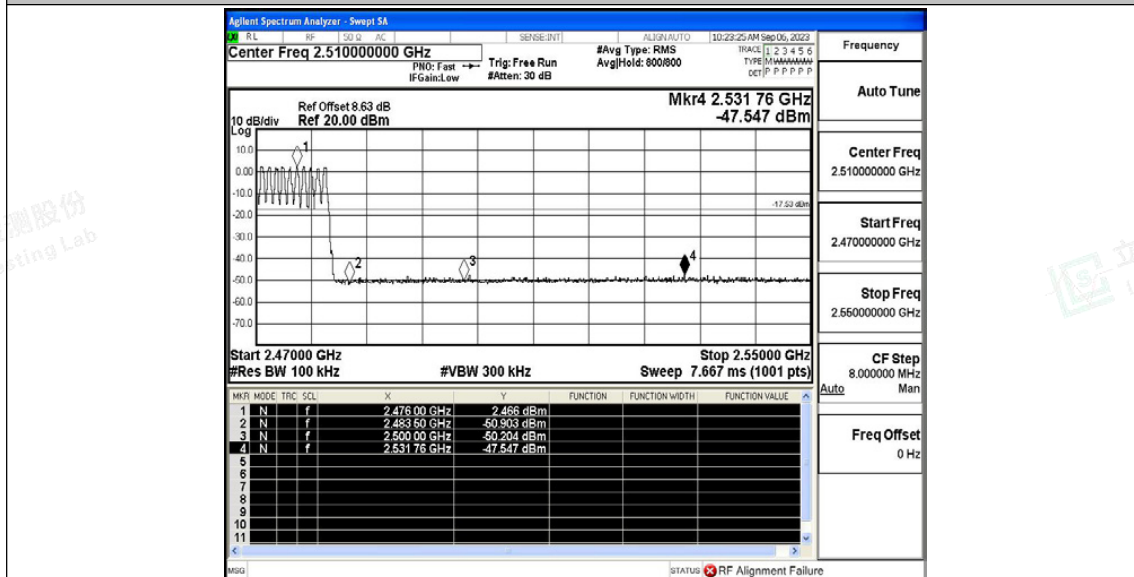
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

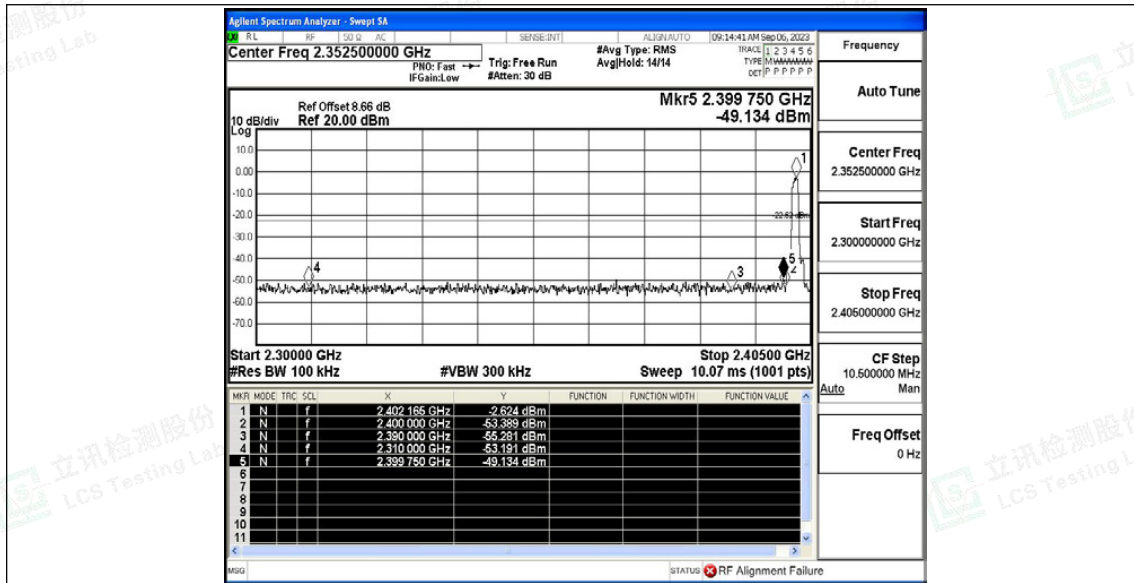


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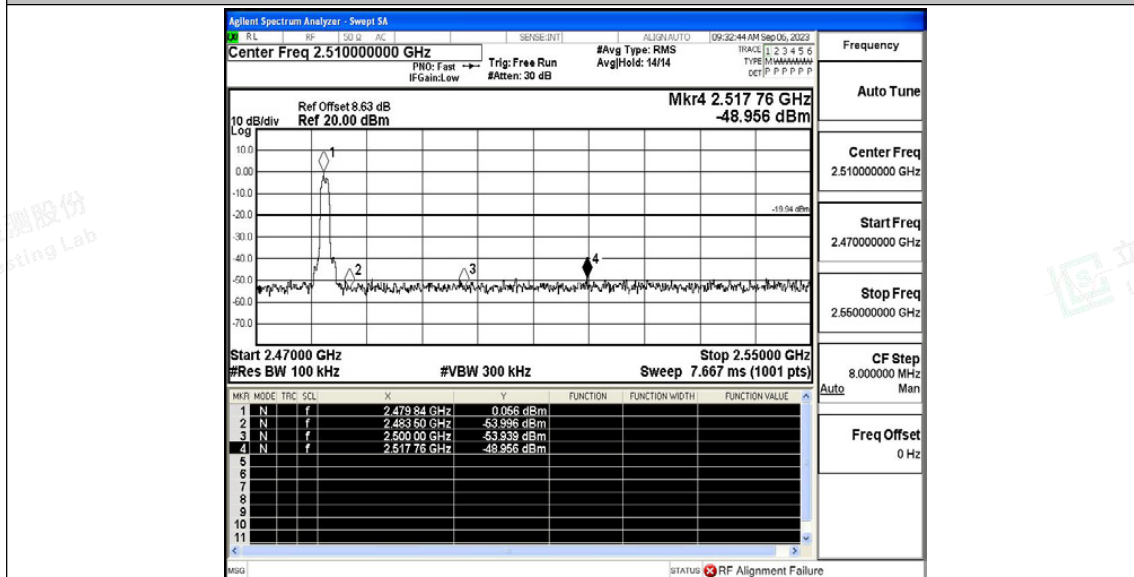
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

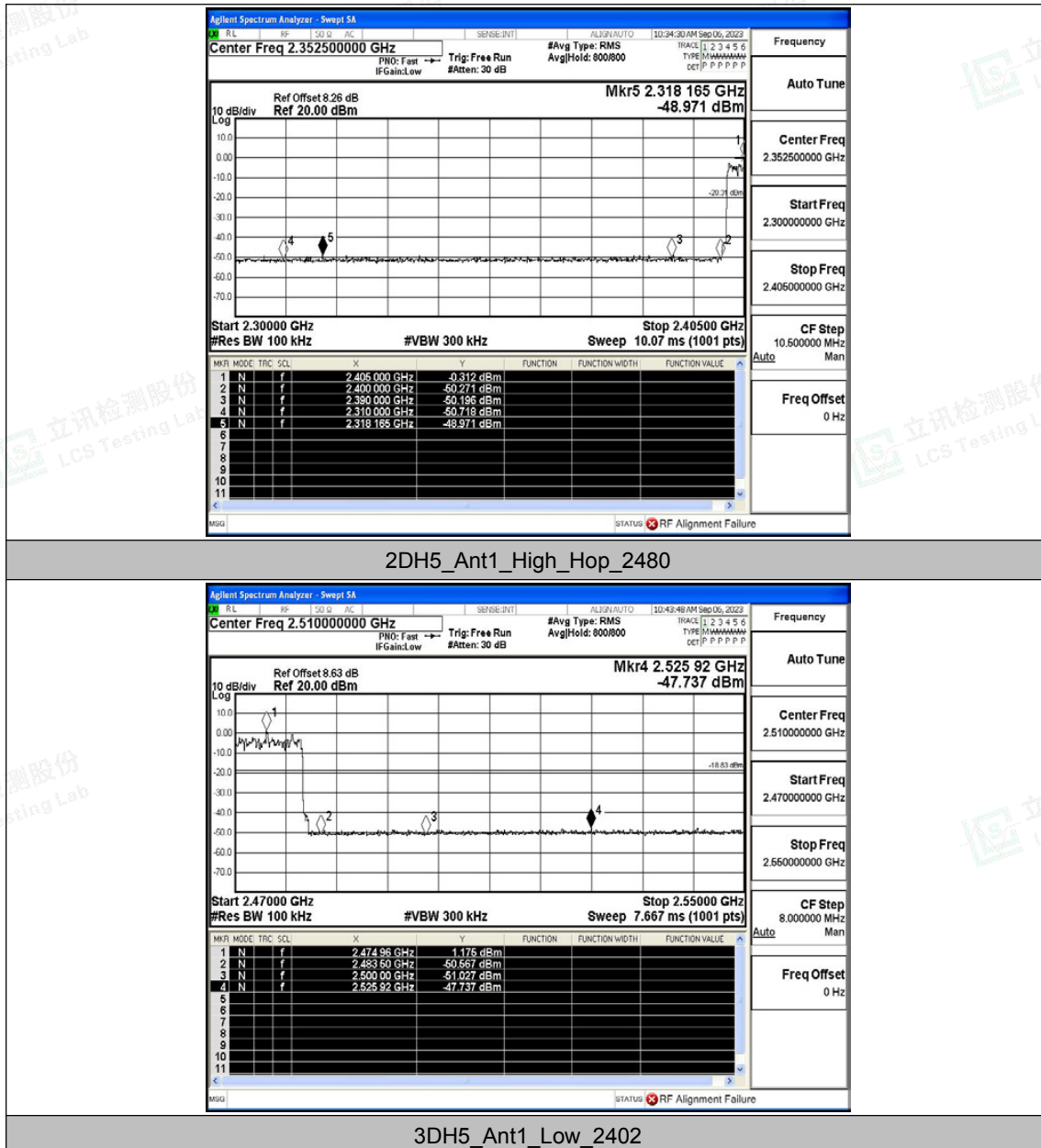


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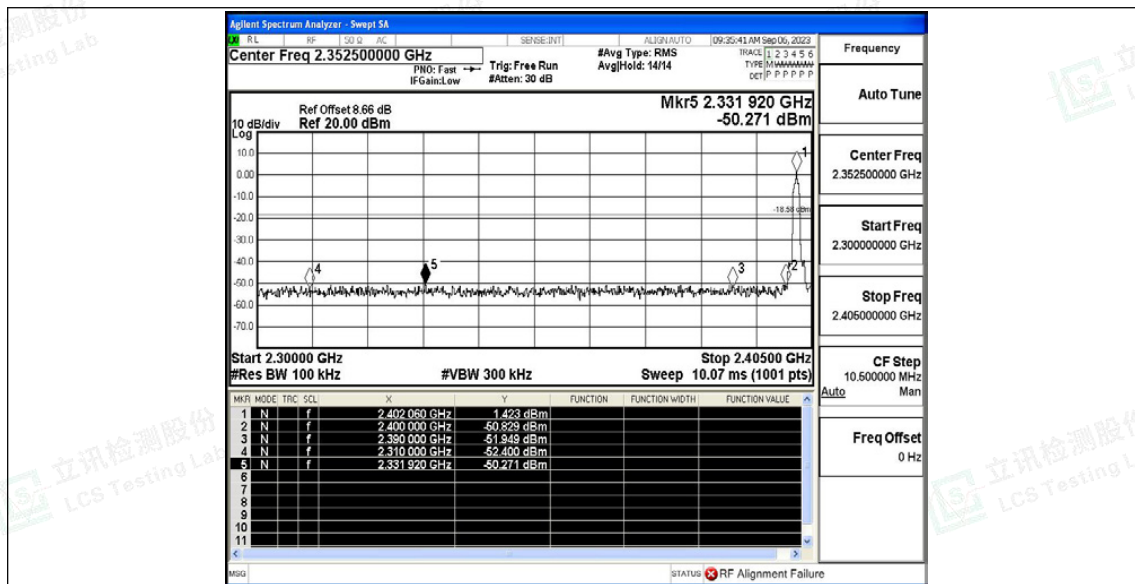


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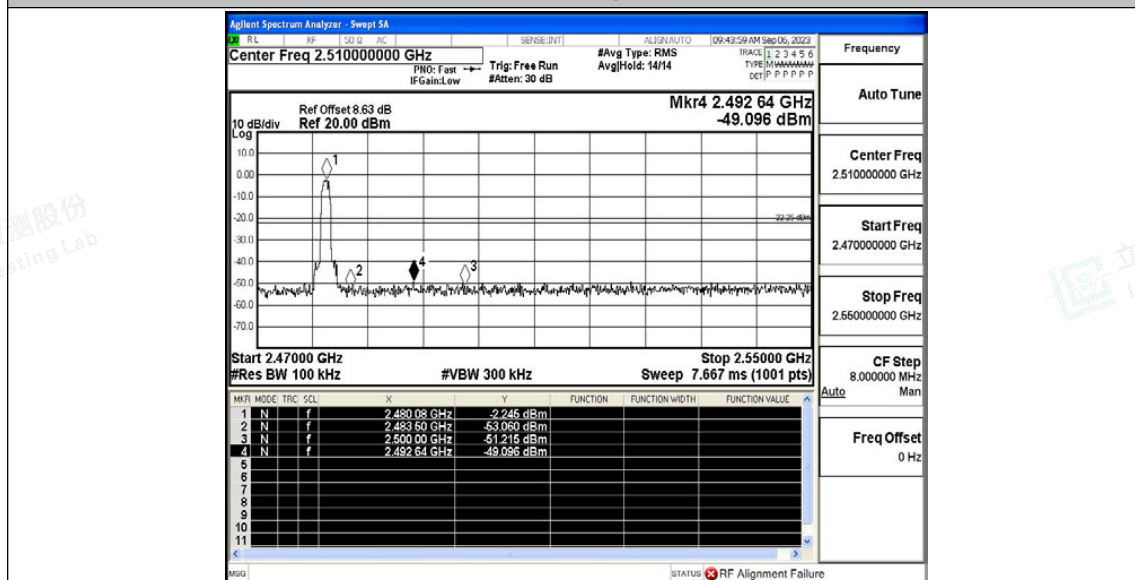
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

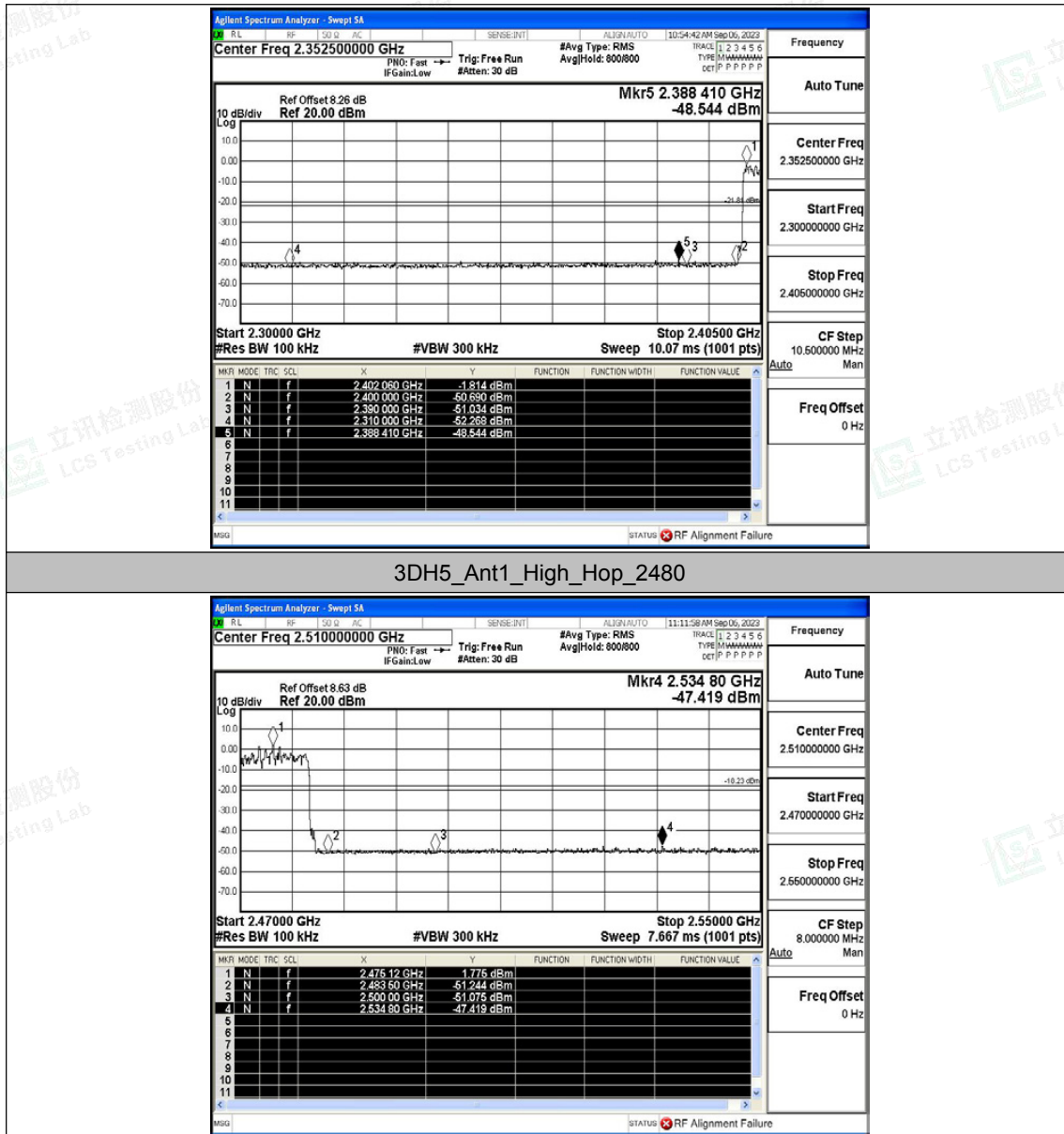


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A.8 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-61.06	≤-17.98	PASS
			1000~26500	2.02	-45.9	≤-17.98	PASS
		2441	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-60.6	≤-17.83	PASS
			1000~26500	2.17	-46.58	≤-17.83	PASS
		2480	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-60.89	≤-17.48	PASS
			1000~26500	2.52	-46.72	≤-17.48	PASS
2DH5	Ant1	2402	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-60.57	≤-19.89	PASS
			1000~26500	0.11	-46.44	≤-19.89	PASS
		2441	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-60.71	≤-18.34	PASS
			1000~26500	1.66	-45.82	≤-18.34	PASS
		2480	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-60.66	≤-19.07	PASS
			1000~26500	0.93	-46.15	≤-19.07	PASS
3DH5	Ant1	2402	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-61.17	≤-18.48	PASS
			1000~26500	1.52	-46.16	≤-18.48	PASS
		2441	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-60.77	≤-18.96	PASS
			1000~26500	1.04	-46.67	≤-18.96	PASS
		2480	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-60.83	≤-18.42	PASS
			1000~26500	1.58	-46.14	≤-18.42	PASS



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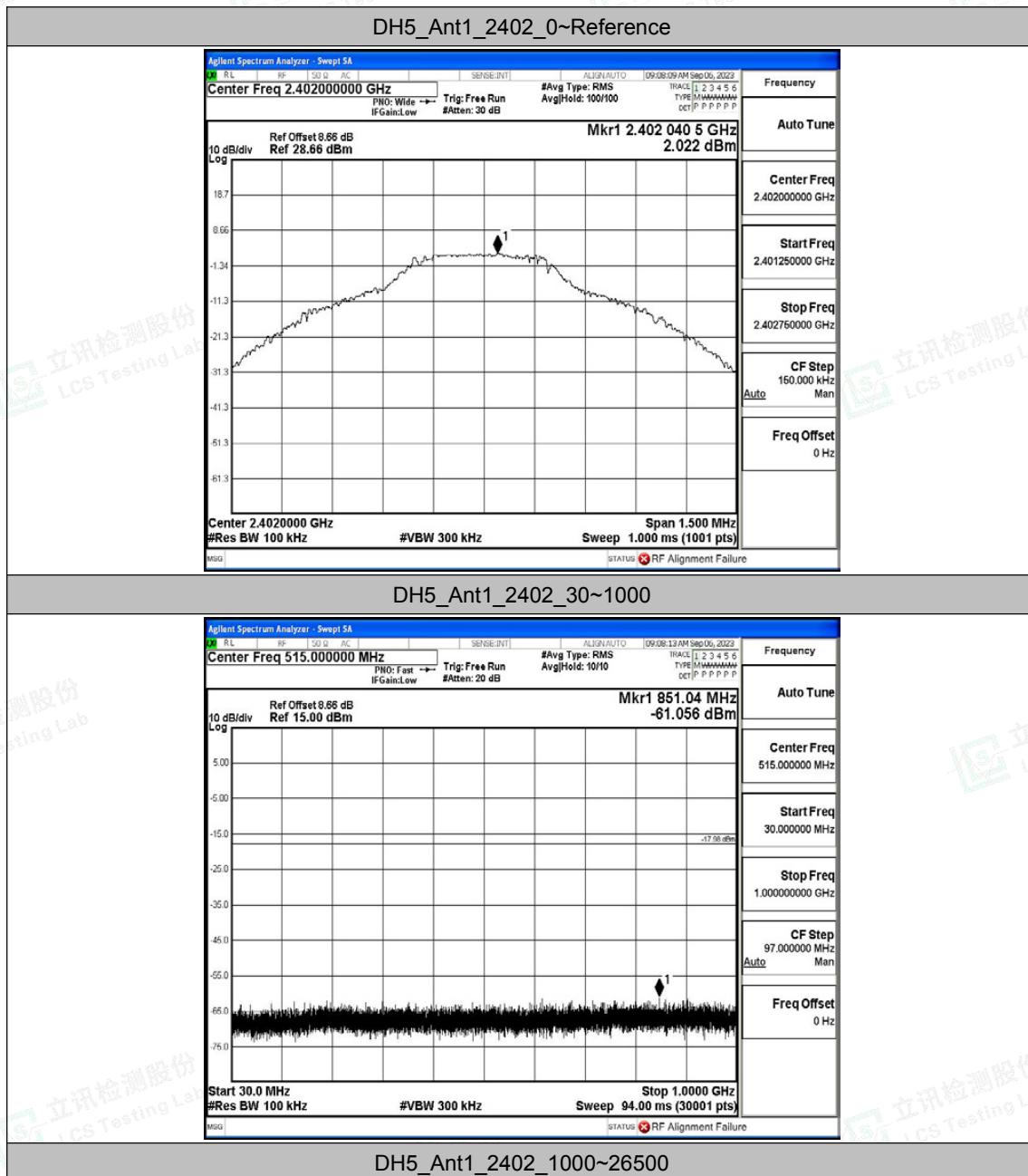
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Test Graphs

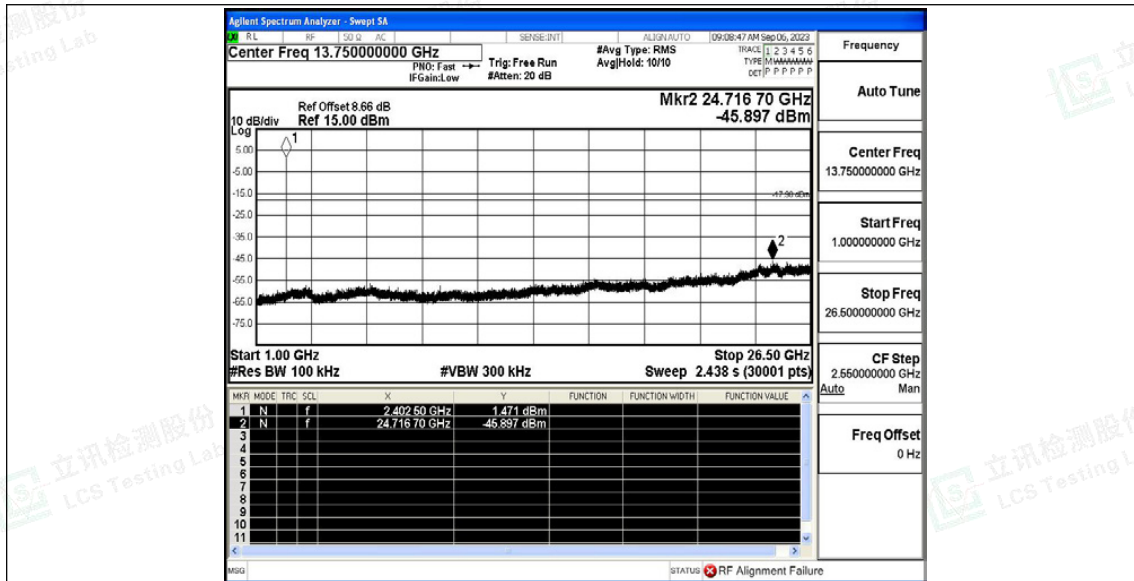


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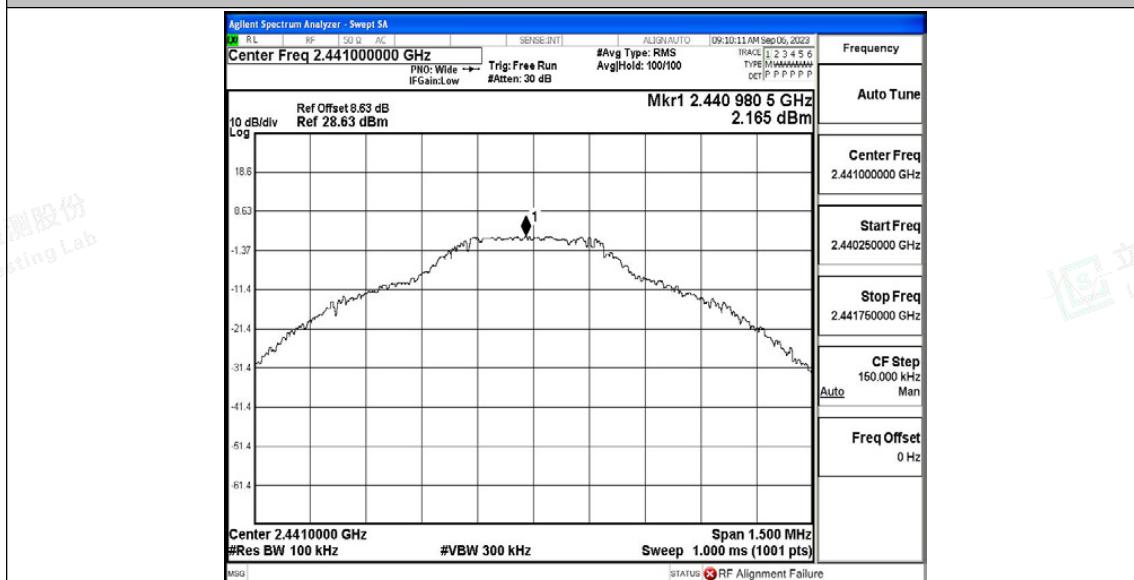
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

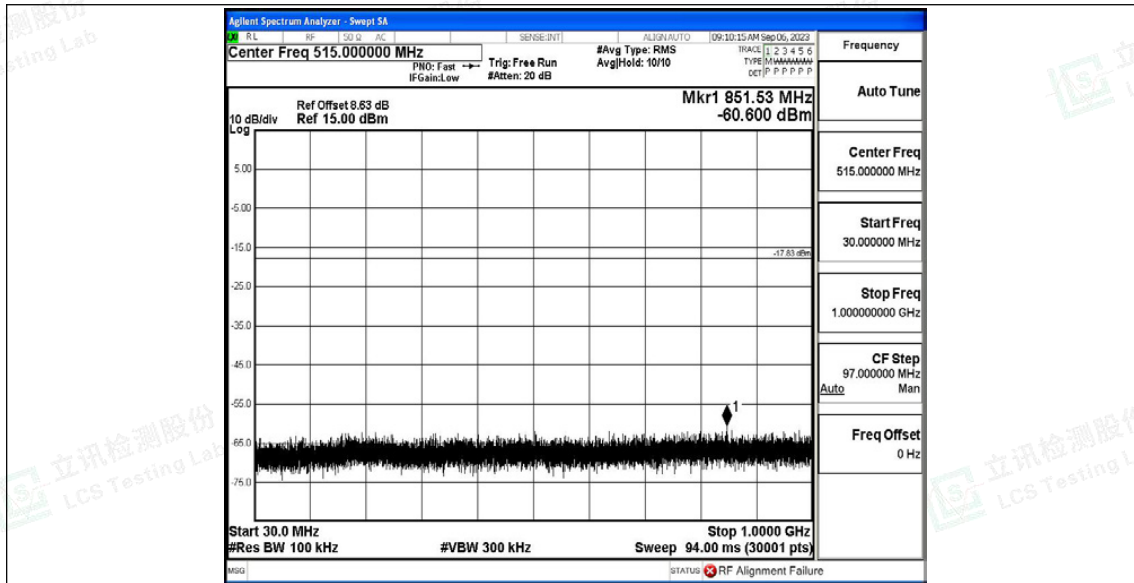


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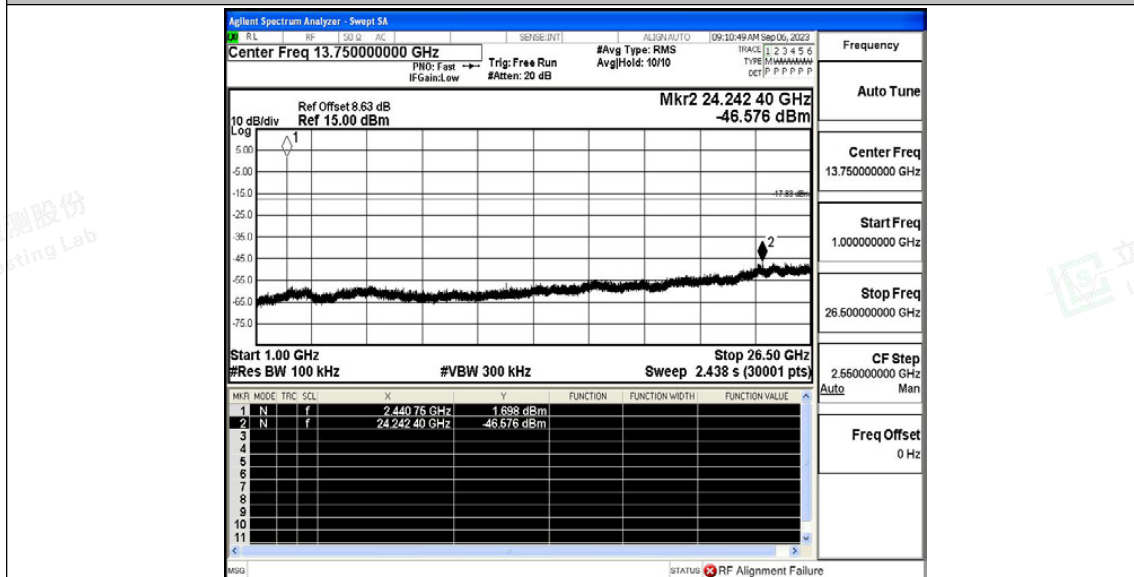
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



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