



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP291PLUS

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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A.1 20dB Emission Bandwidth

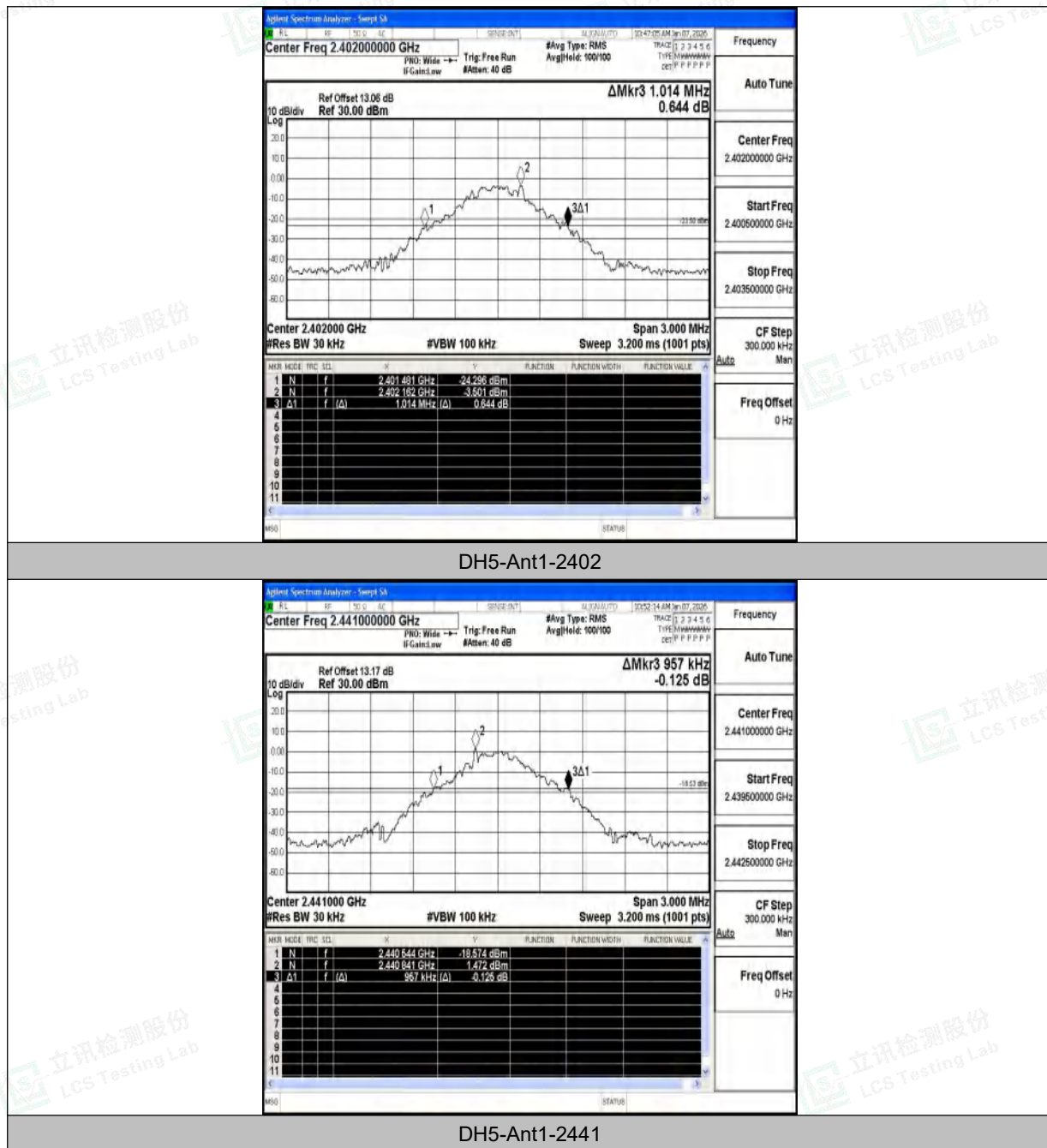
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.014	2401.481	2402.495	---	---
DH5	Ant1	2441	0.957	2440.544	2441.501	---	---
DH5	Ant1	2480	1.032	2479.478	2480.510	---	---
2DH5	Ant1	2402	1.290	2401.367	2402.657	---	---
2DH5	Ant1	2441	1.329	2440.337	2441.666	---	---
2DH5	Ant1	2480	1.329	2479.337	2480.666	---	---
3DH5	Ant1	2402	1.320	2401.343	2402.663	---	---
3DH5	Ant1	2441	1.329	2440.337	2441.666	---	---
3DH5	Ant1	2480	1.308	2479.346	2480.654	---	---





Test Graphs

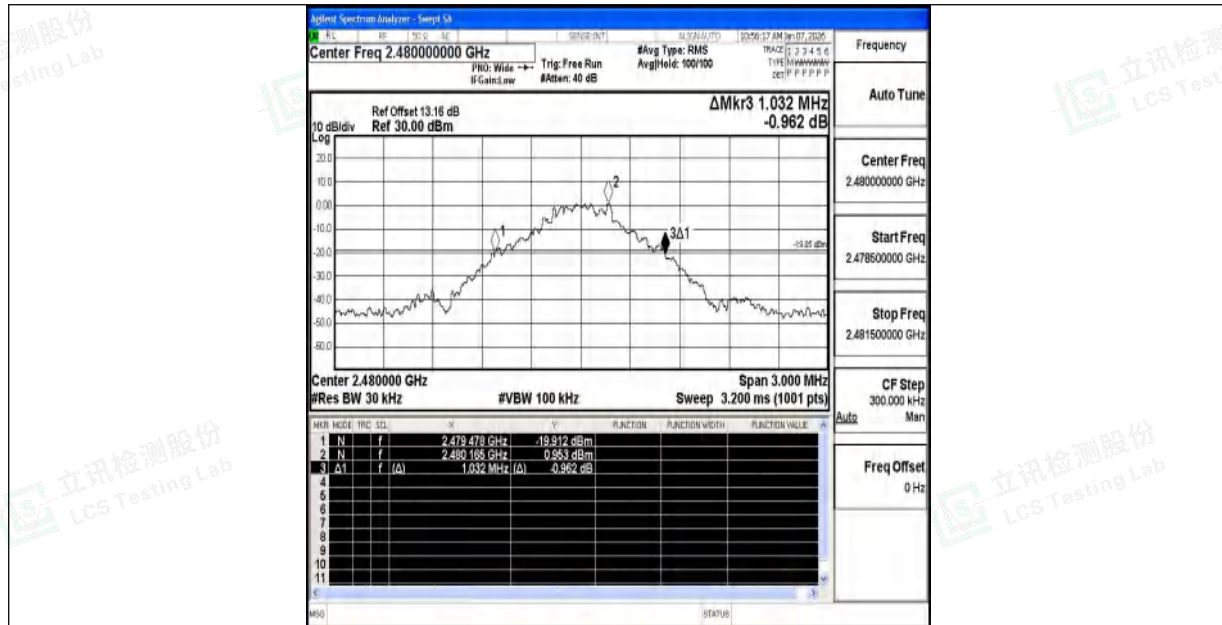


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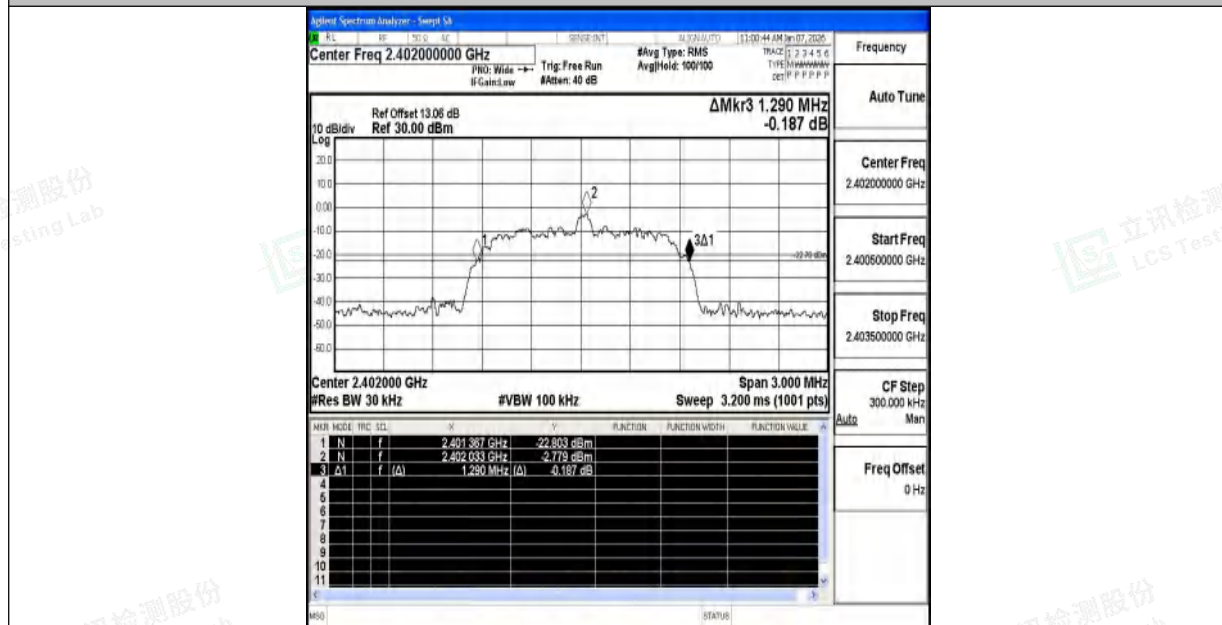
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DH5-Ant1-2480



2DH5-Ant1-2402

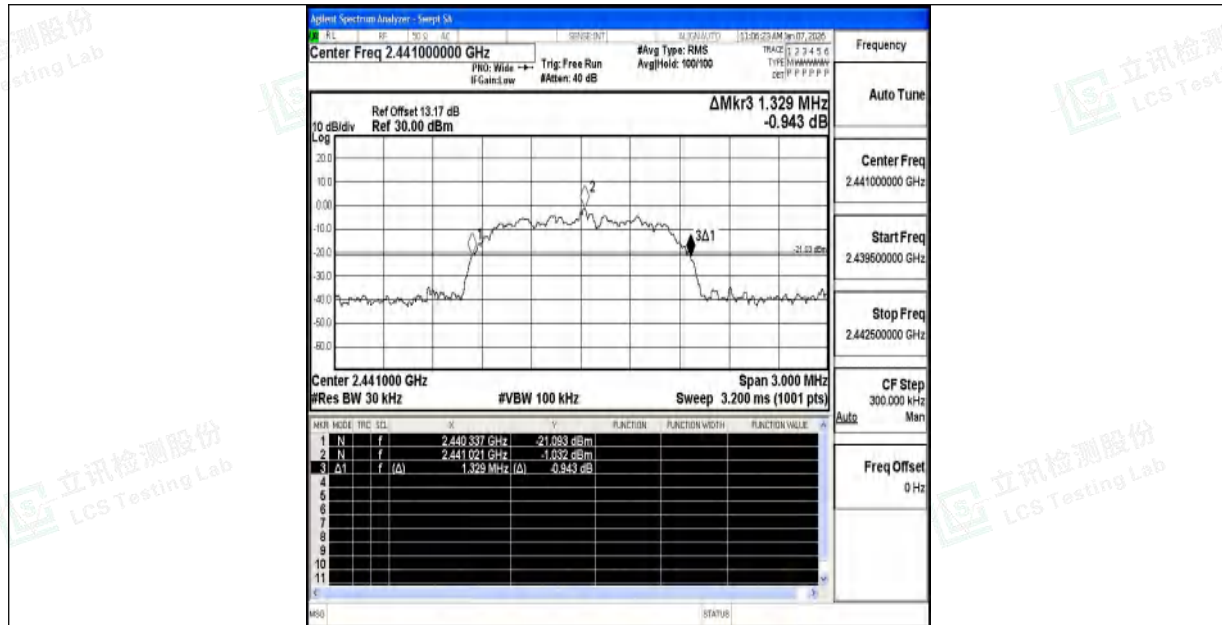


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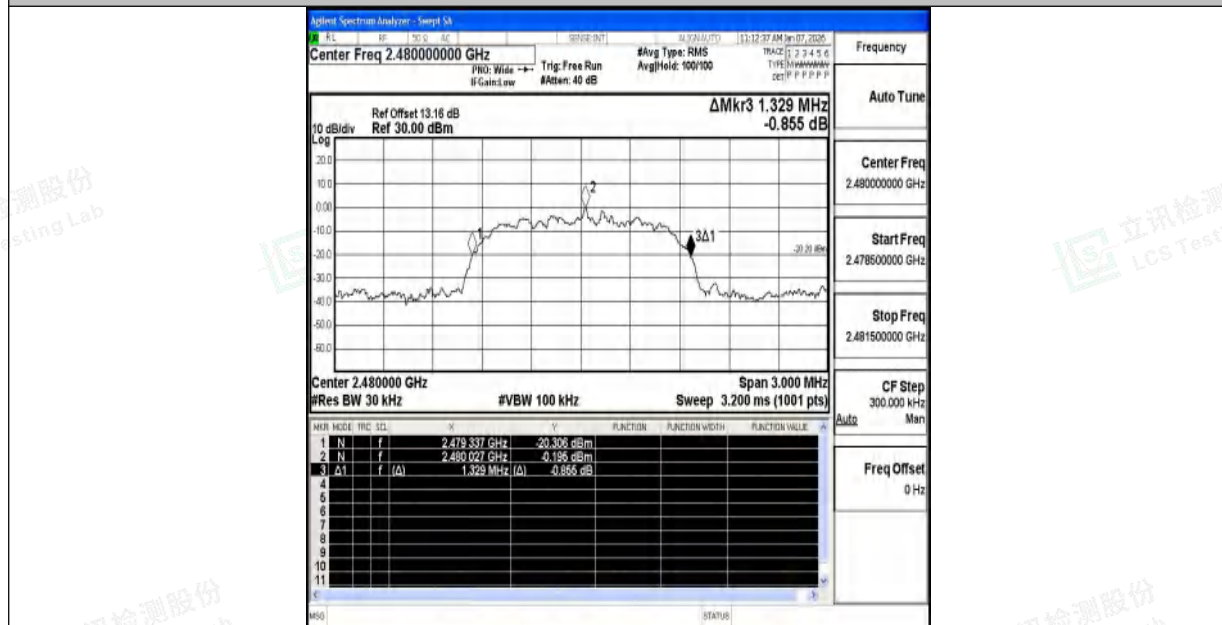
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2DH5-Ant1-2441



2DH5-Ant1-2480

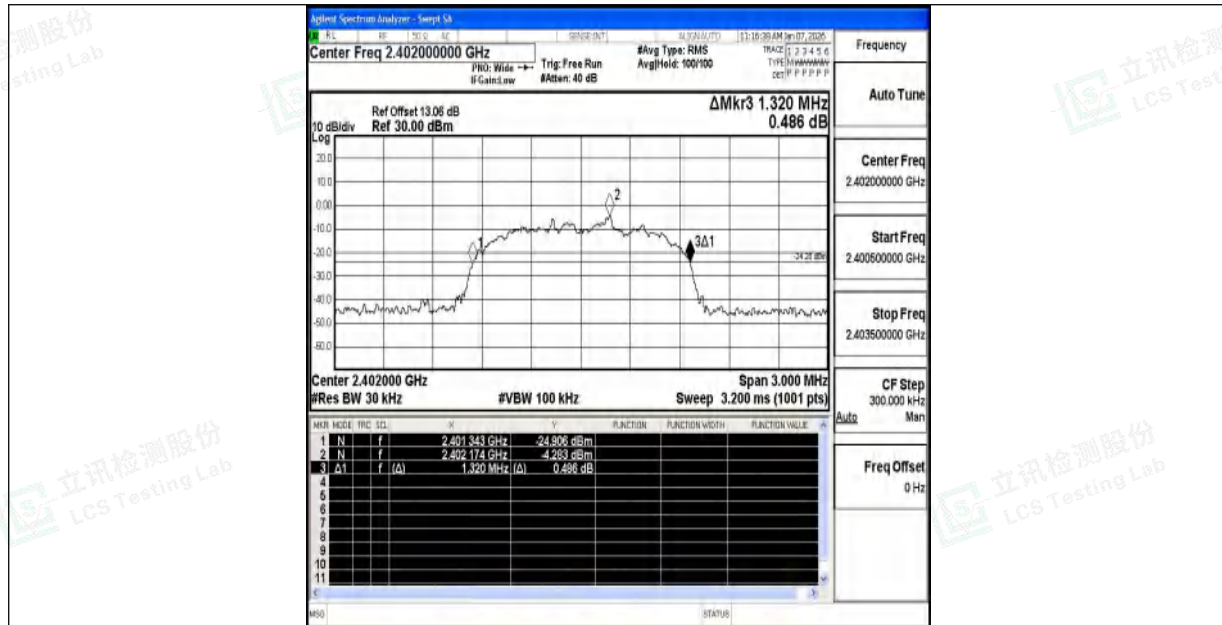


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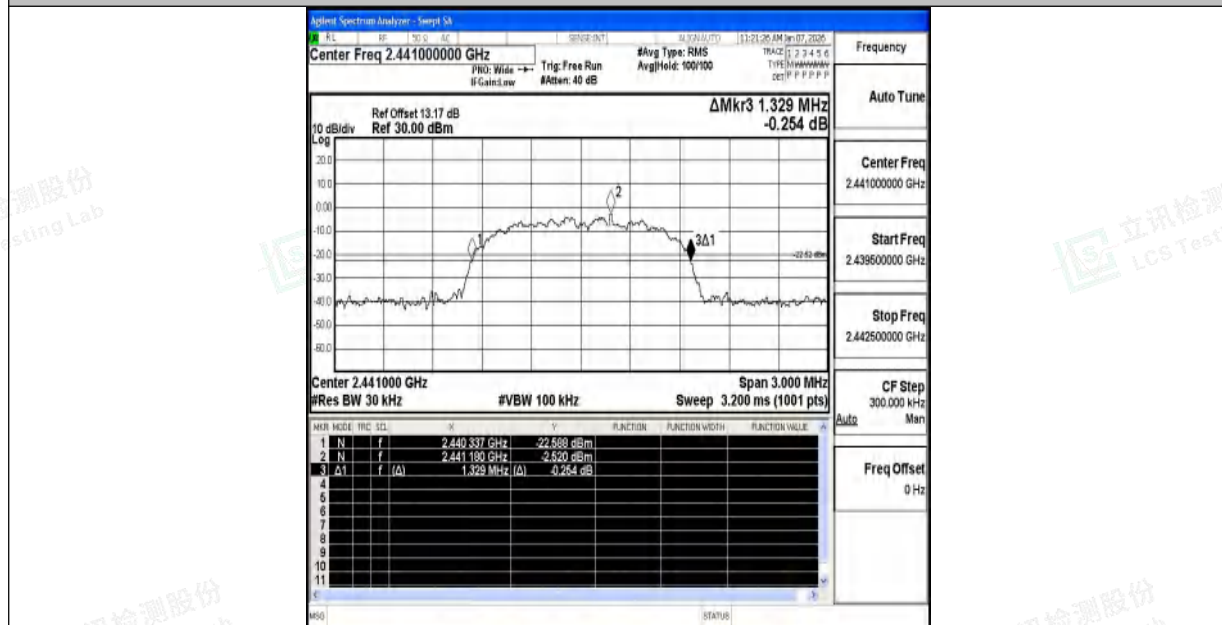
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3DH5-Ant1-2402



3DH5-Ant1-2441

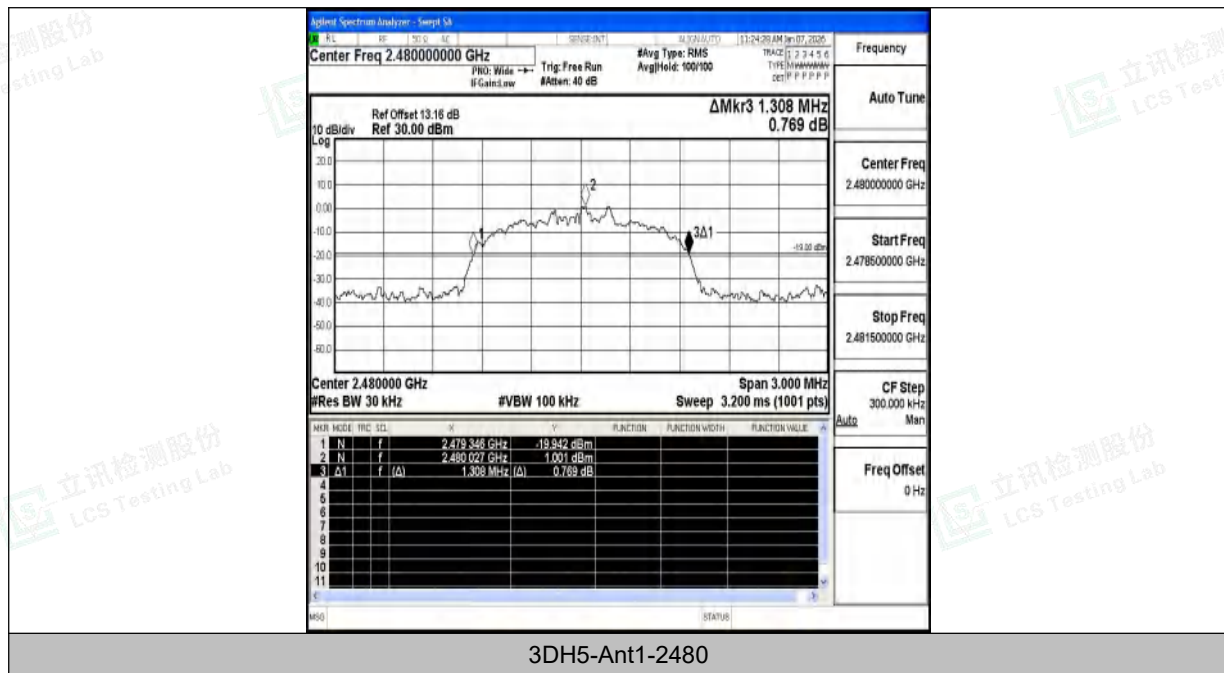


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A.2 Maximum Peak Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.39	≤20.97	PASS
DH5	Ant1	2441	2.99	≤20.97	PASS
DH5	Ant1	2480	3.68	≤20.97	PASS
2DH5	Ant1	2402	1.29	≤20.97	PASS
2DH5	Ant1	2441	4.03	≤20.97	PASS
2DH5	Ant1	2480	4.48	≤20.97	PASS
3DH5	Ant1	2402	1.50	≤20.97	PASS
3DH5	Ant1	2441	4.16	≤20.97	PASS
3DH5	Ant1	2480	4.68	≤20.97	PASS



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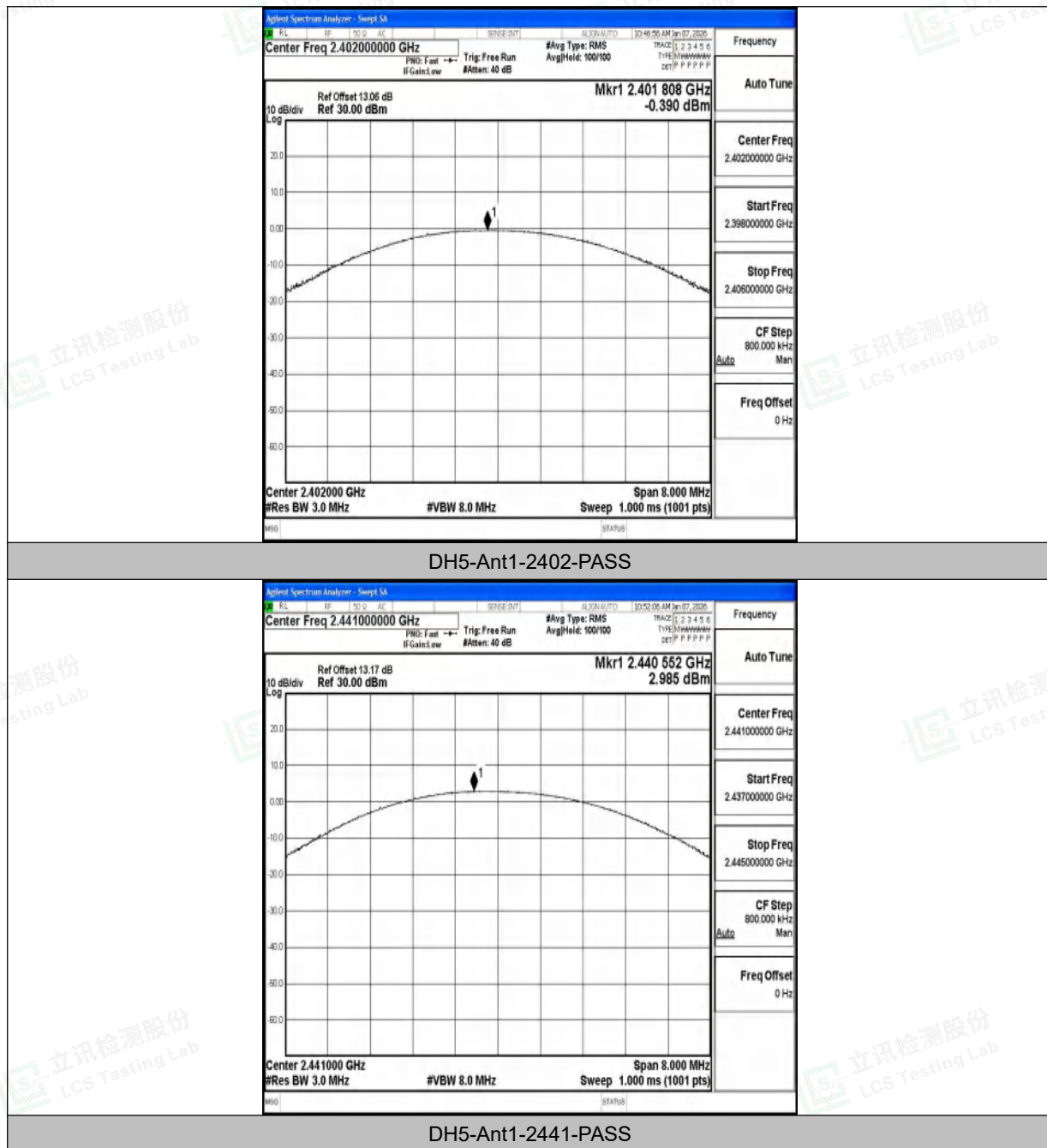
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Test Graphs

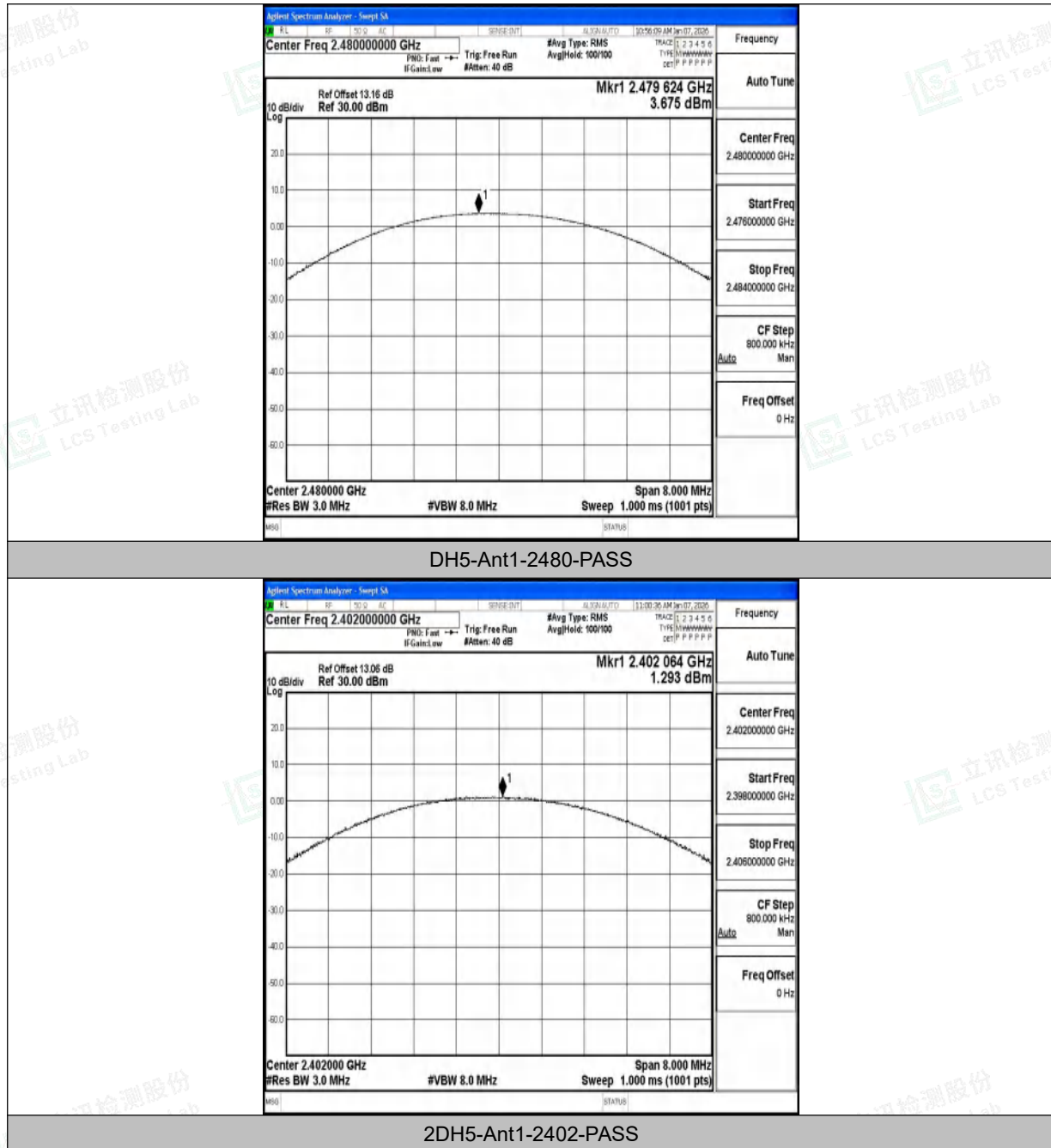


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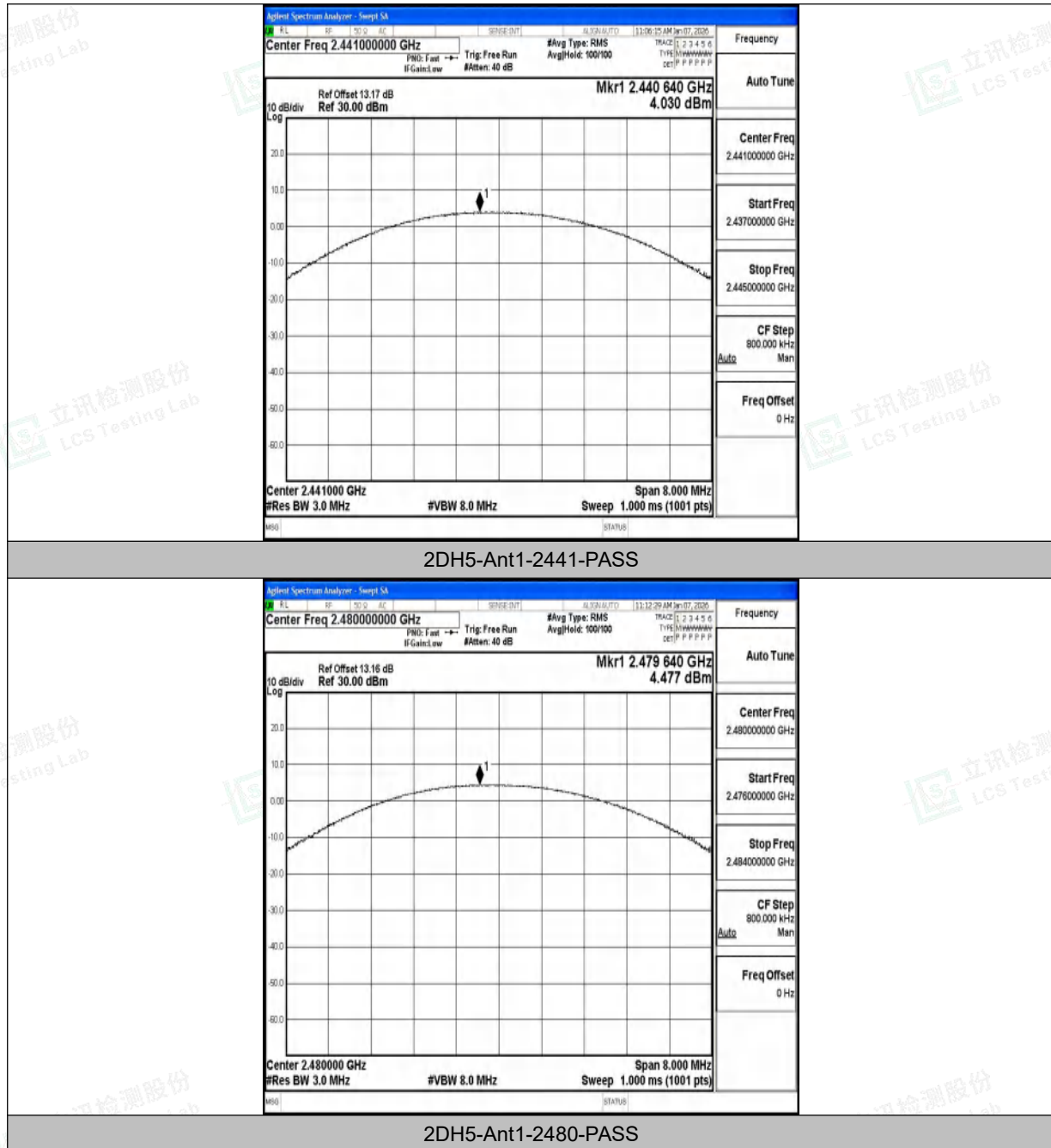


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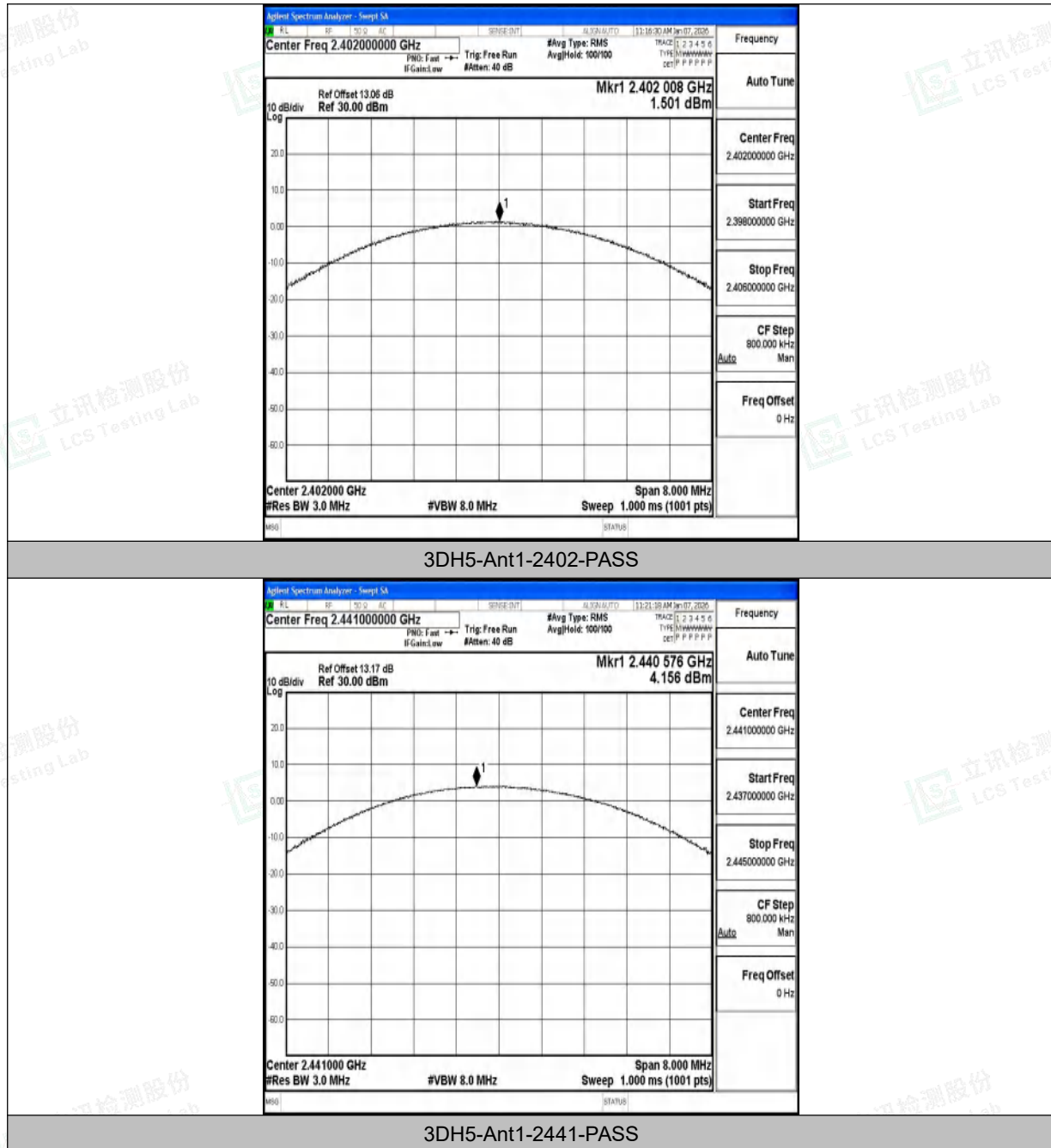


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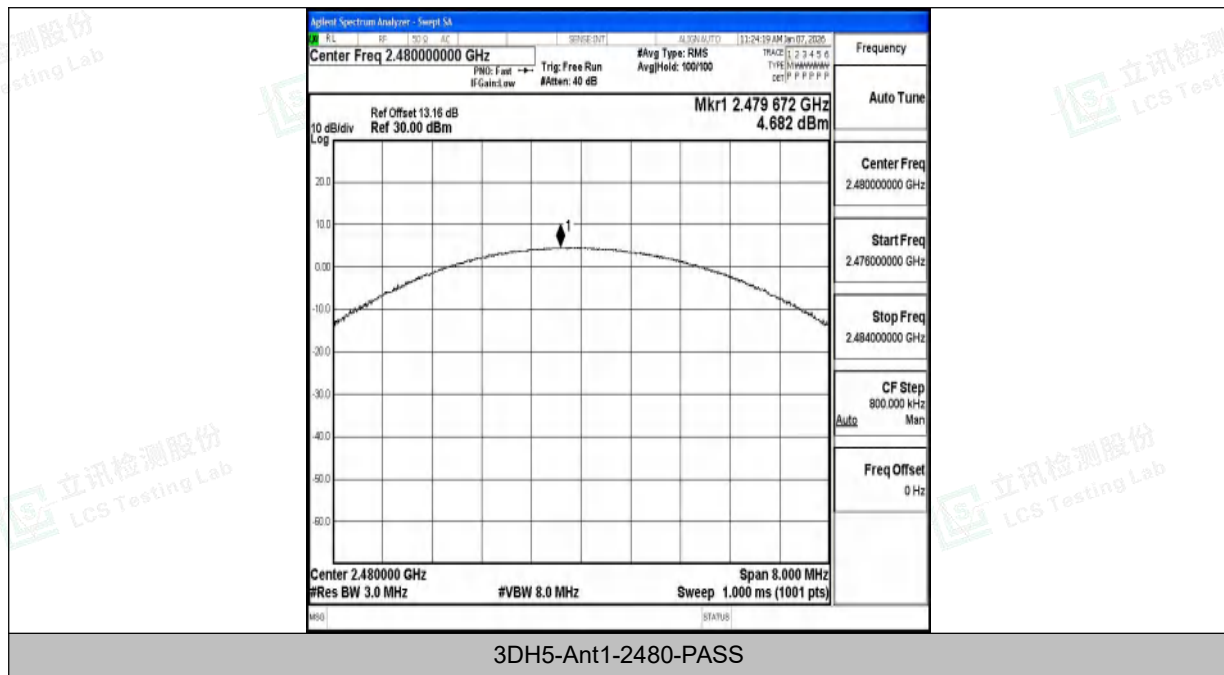


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A.3 Carrier frequency separation

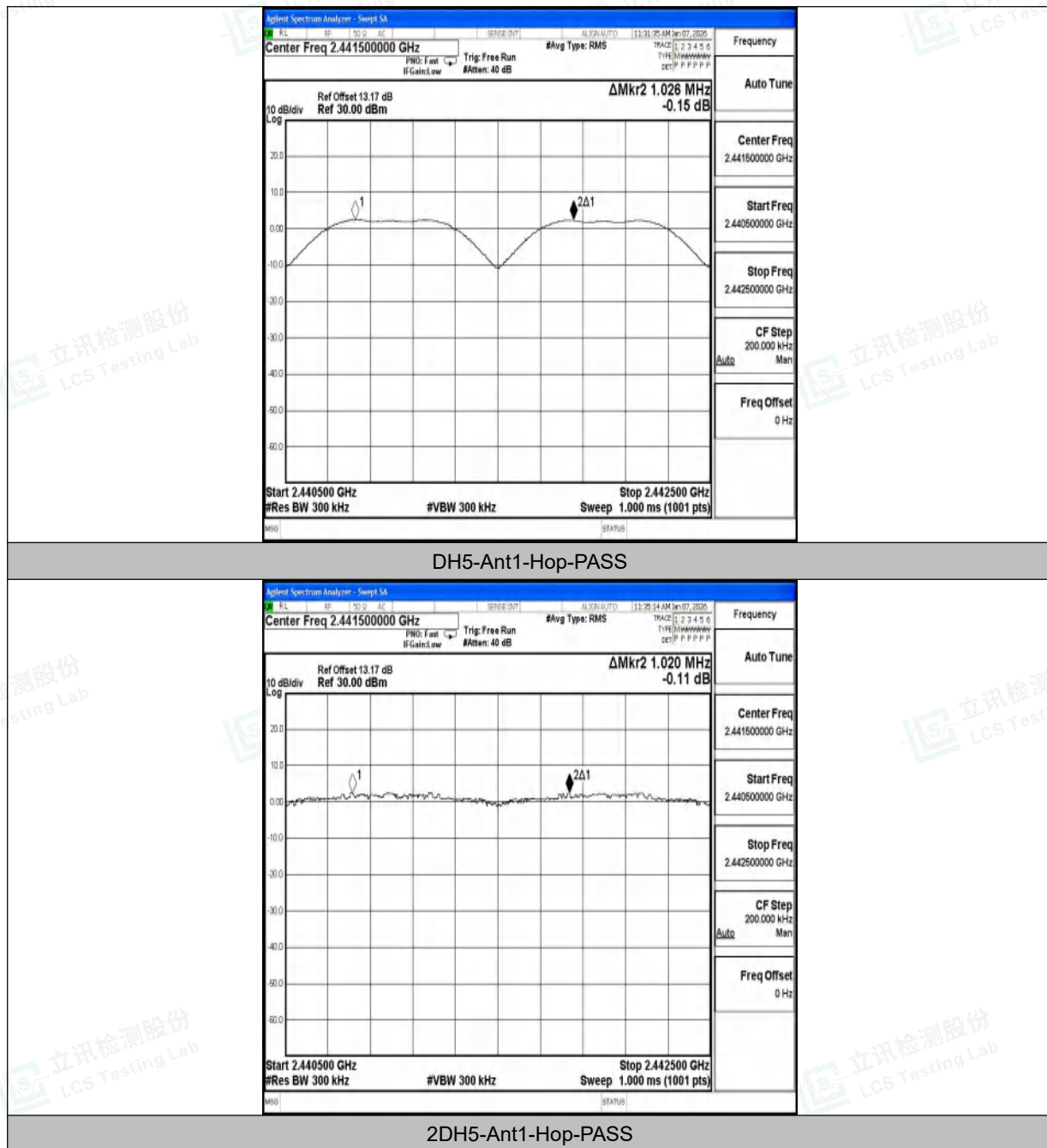
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.026	≥ 0.688	PASS
2DH5	Ant1	Hop	1.02	≥ 0.886	PASS
3DH5	Ant1	Hop	1.022	≥ 0.886	PASS





Test Graphs

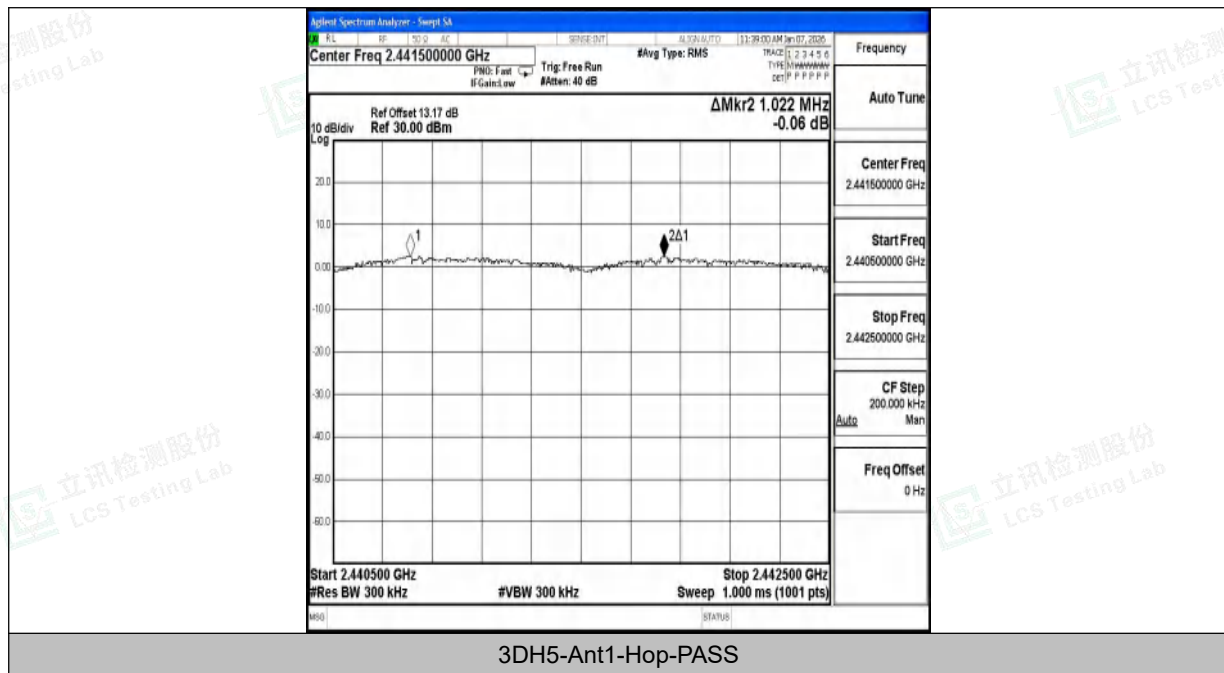


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A.4 Time of occupancy

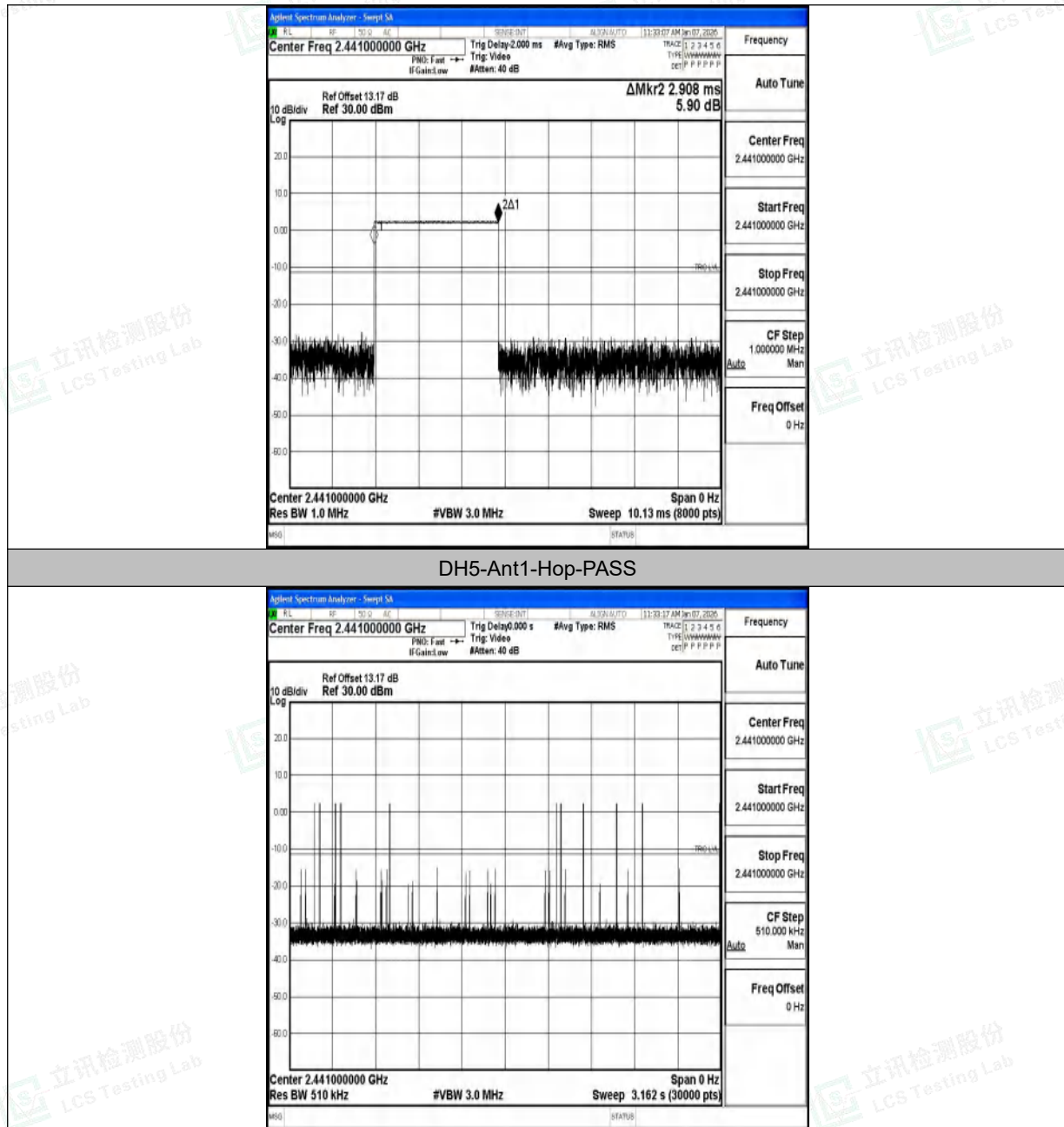
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	120	0.349	≤0.4	PASS
2DH5	Ant1	Hop	2.896	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.896	80	0.232	≤0.4	PASS





Test Graphs

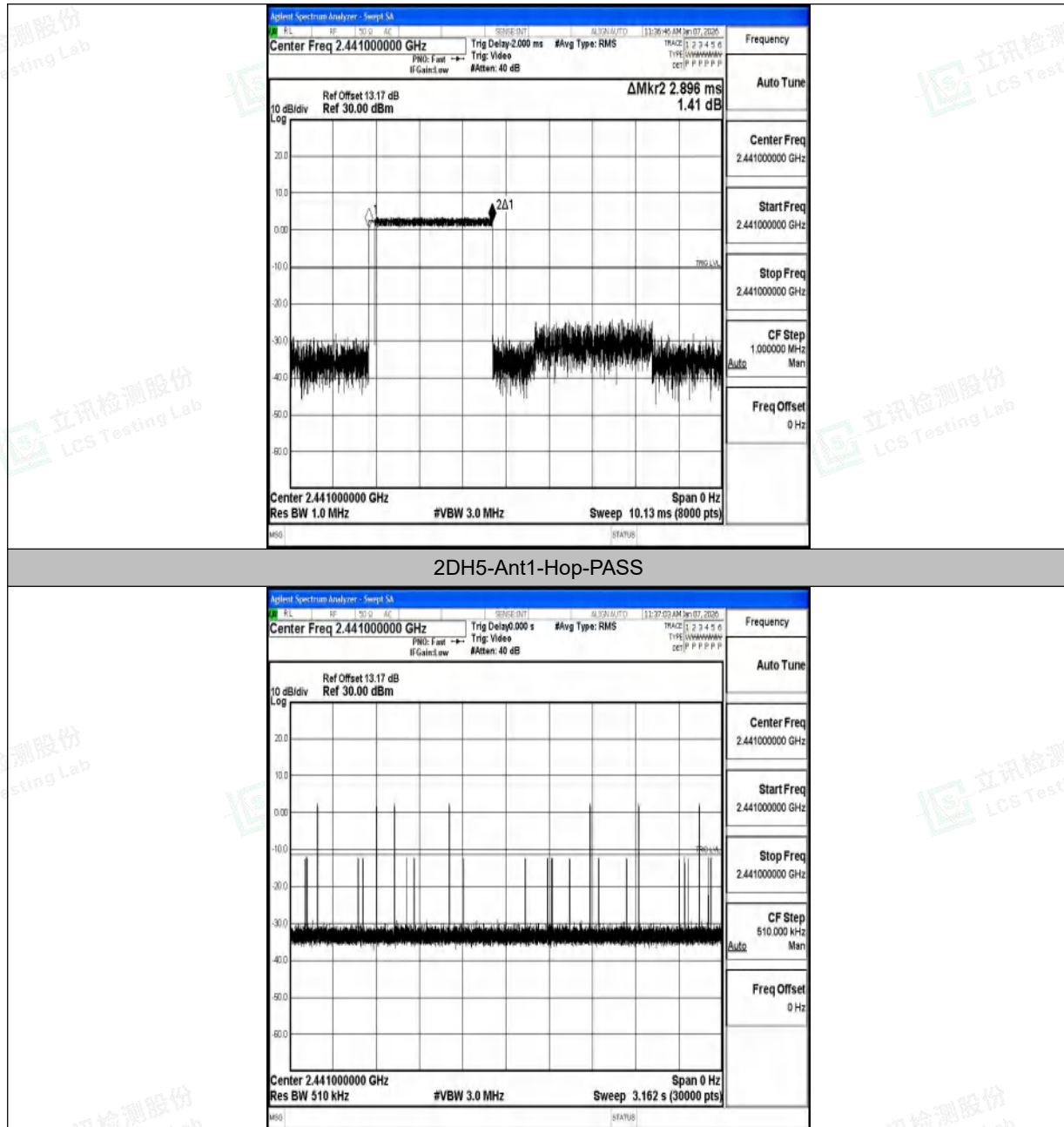


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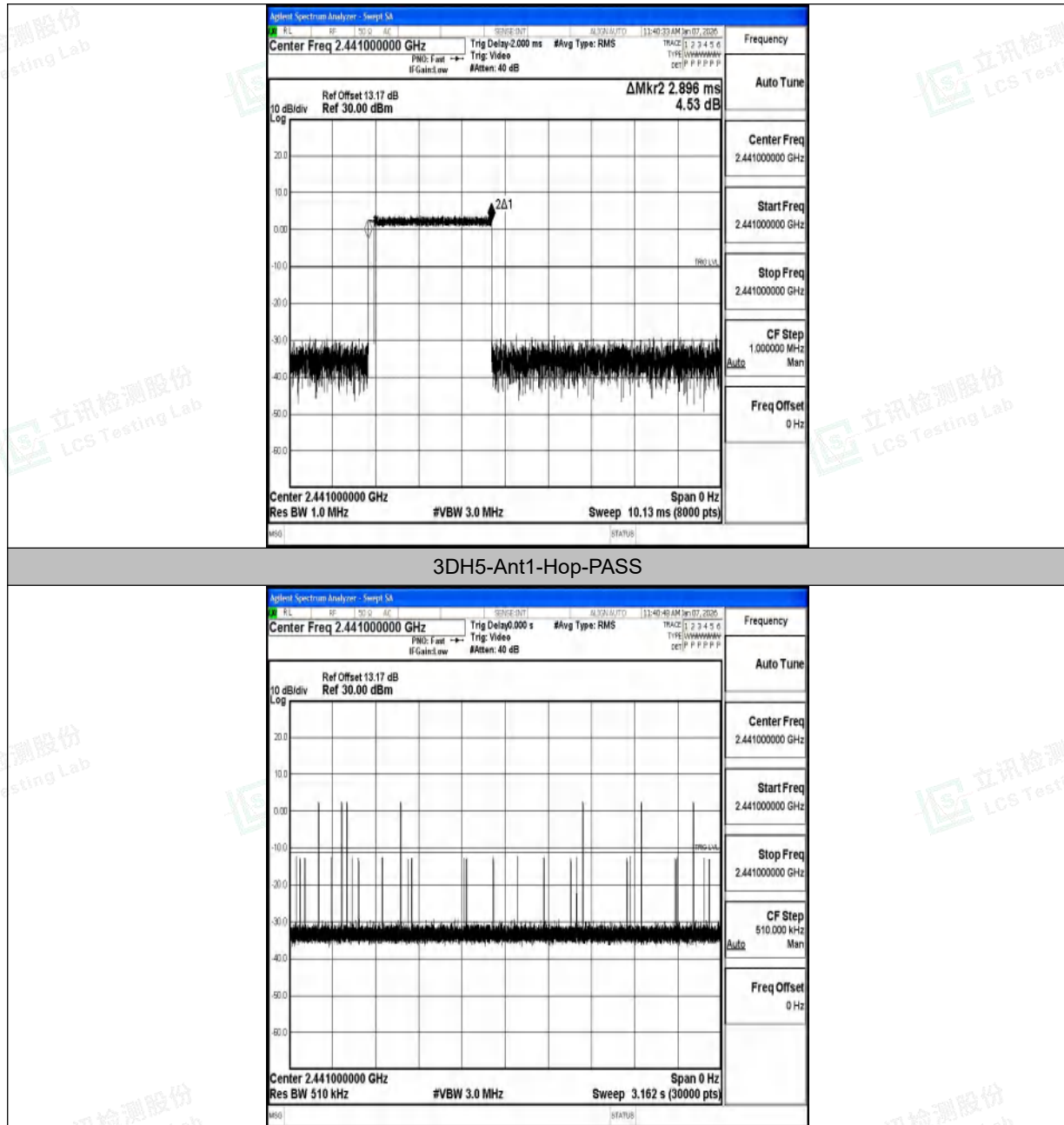


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A.5 Number of hopping channels

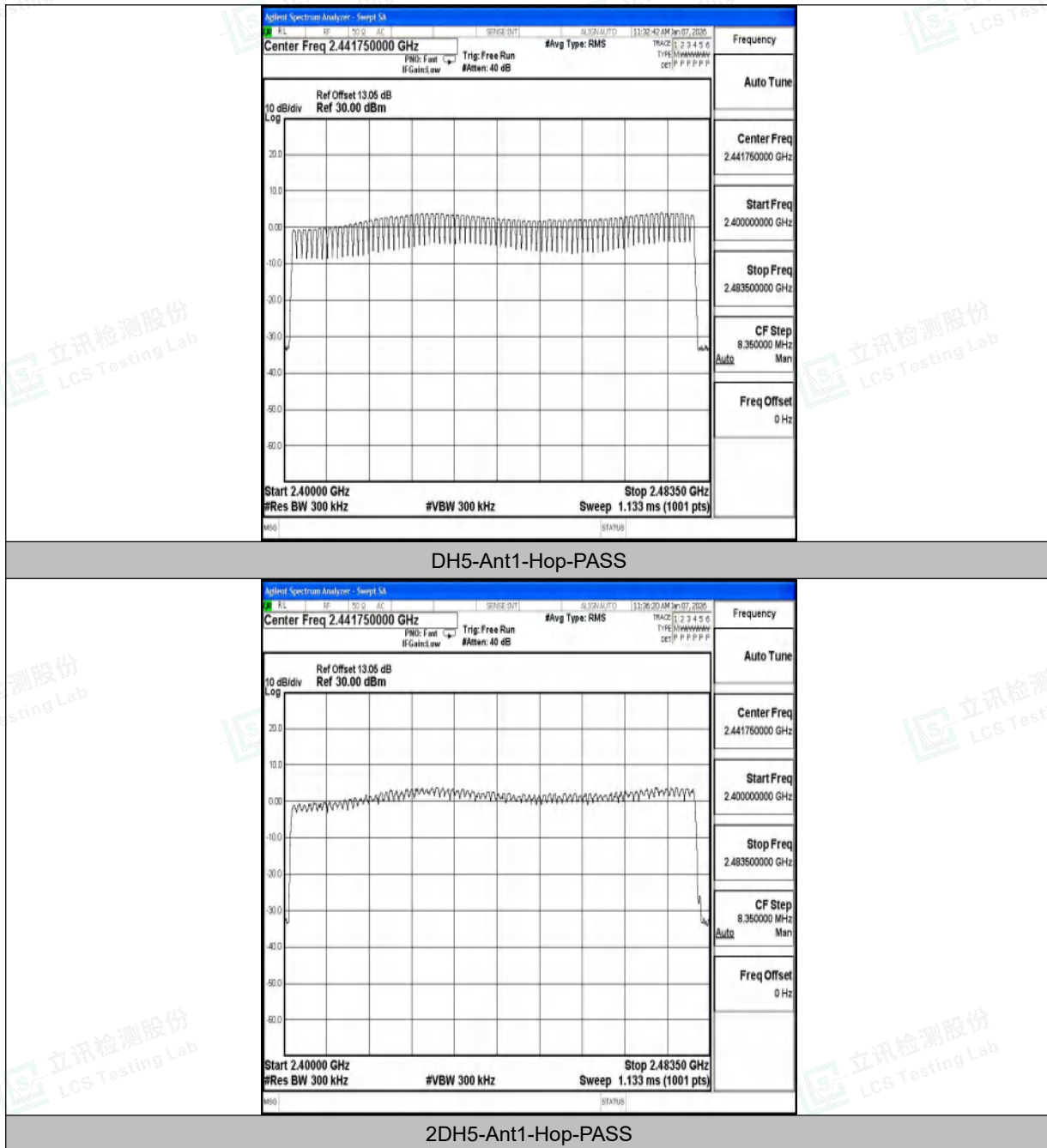
Test Result

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





Test Graphs

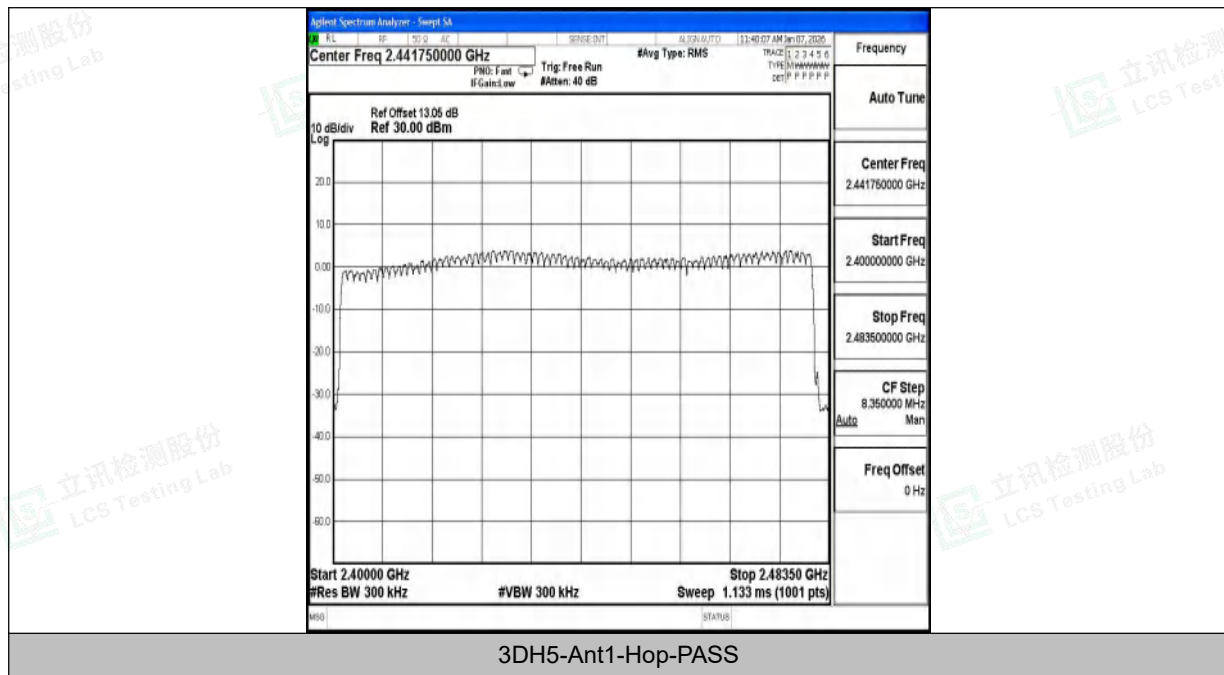


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A.6 Band edge measurements

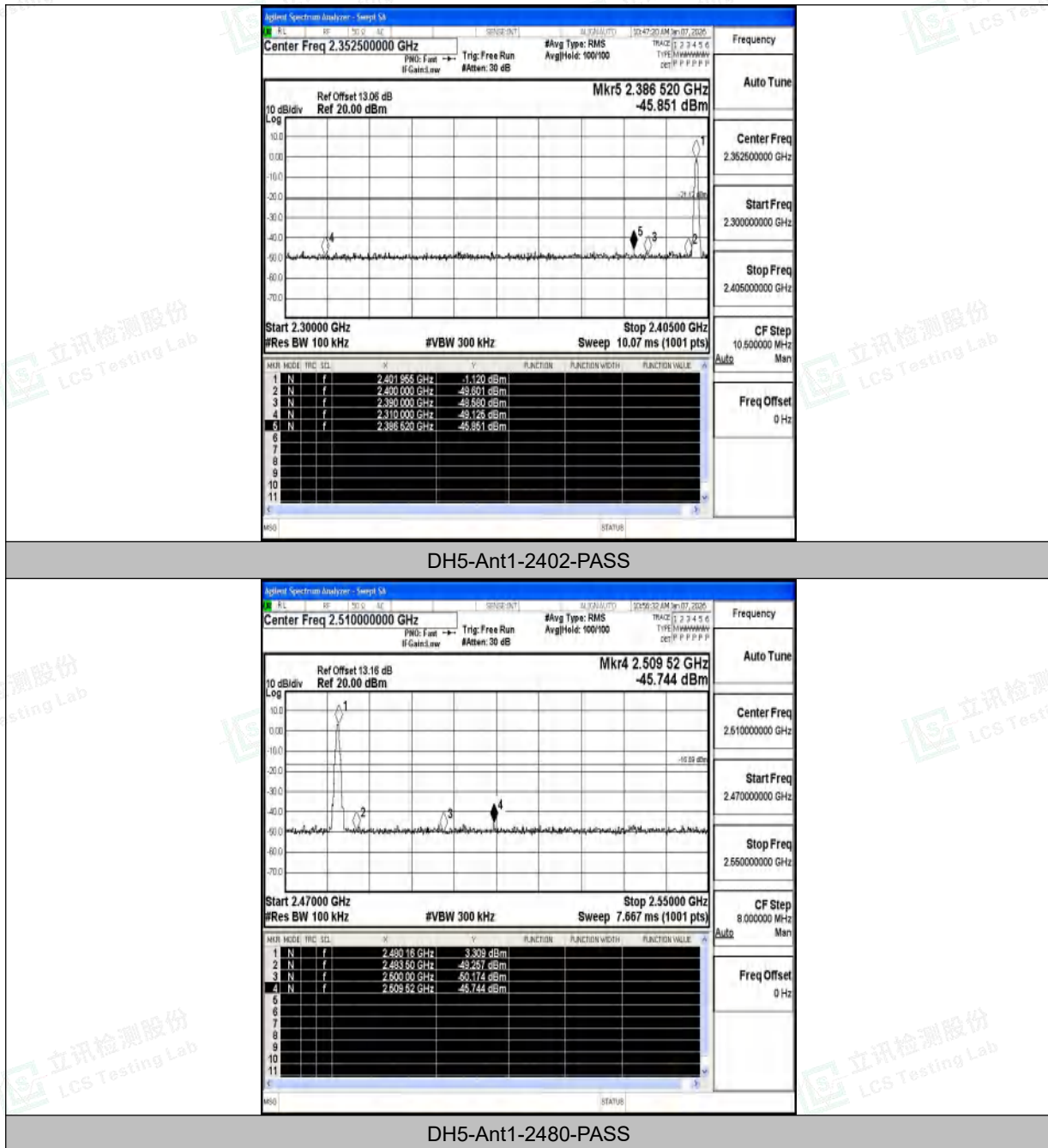
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.12	-45.85	≤-21.12	PASS
DH5	Ant1	High	2480	3.31	-45.74	≤-16.69	PASS
DH5	Ant1	Low	Hop_2402	-2.18	-46.83	≤-22.18	PASS
DH5	Ant1	High	Hop_2480	3.47	-46.49	≤-16.53	PASS
2DH5	Ant1	Low	2402	-3.52	-45.97	≤-23.52	PASS
2DH5	Ant1	High	2480	0.99	-45.22	≤-19.01	PASS
2DH5	Ant1	Low	Hop_2402	-3.61	-46.34	≤-23.61	PASS
2DH5	Ant1	High	Hop_2480	0.51	-46.97	≤-19.49	PASS
3DH5	Ant1	Low	2402	-3.08	-46.23	≤-23.08	PASS
3DH5	Ant1	High	2480	1.29	-46.58	≤-18.71	PASS
3DH5	Ant1	Low	Hop_2402	-6.23	-46.21	≤-26.23	PASS
3DH5	Ant1	High	Hop_2480	1.06	-46.57	≤-18.95	PASS





Test Graphs

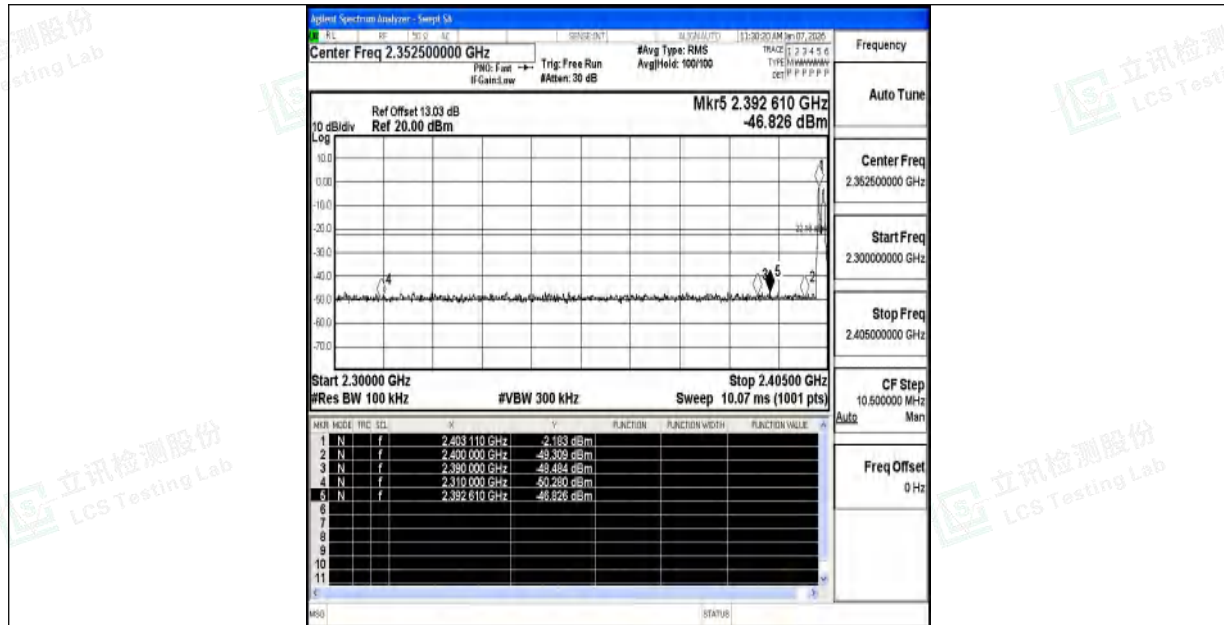


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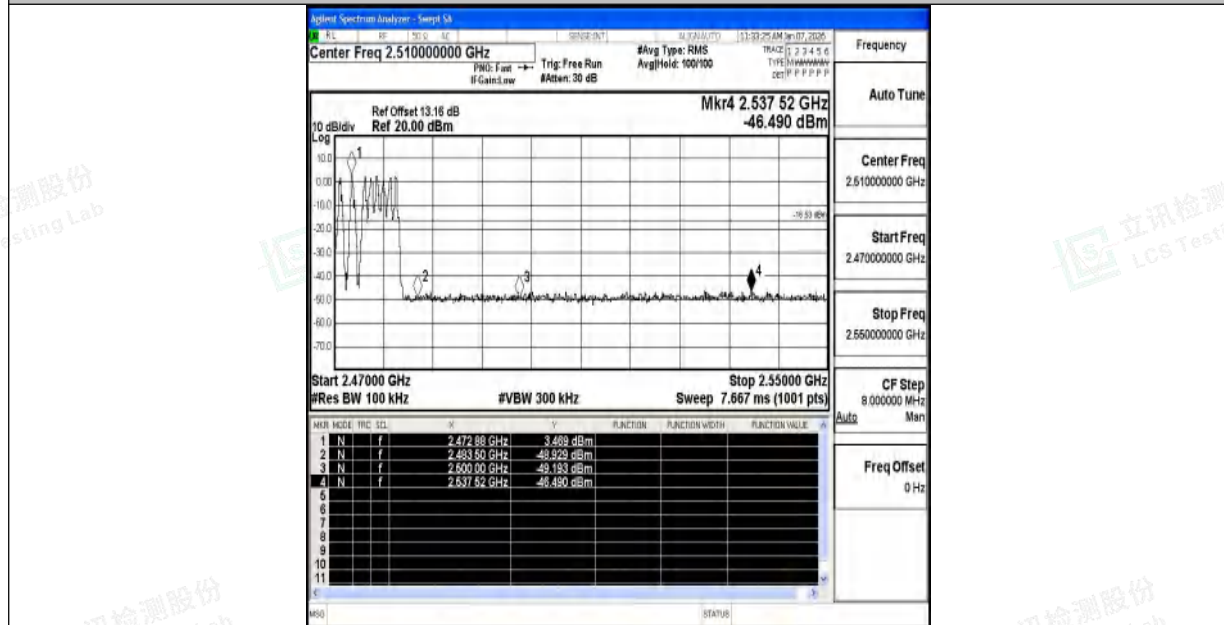
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DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS

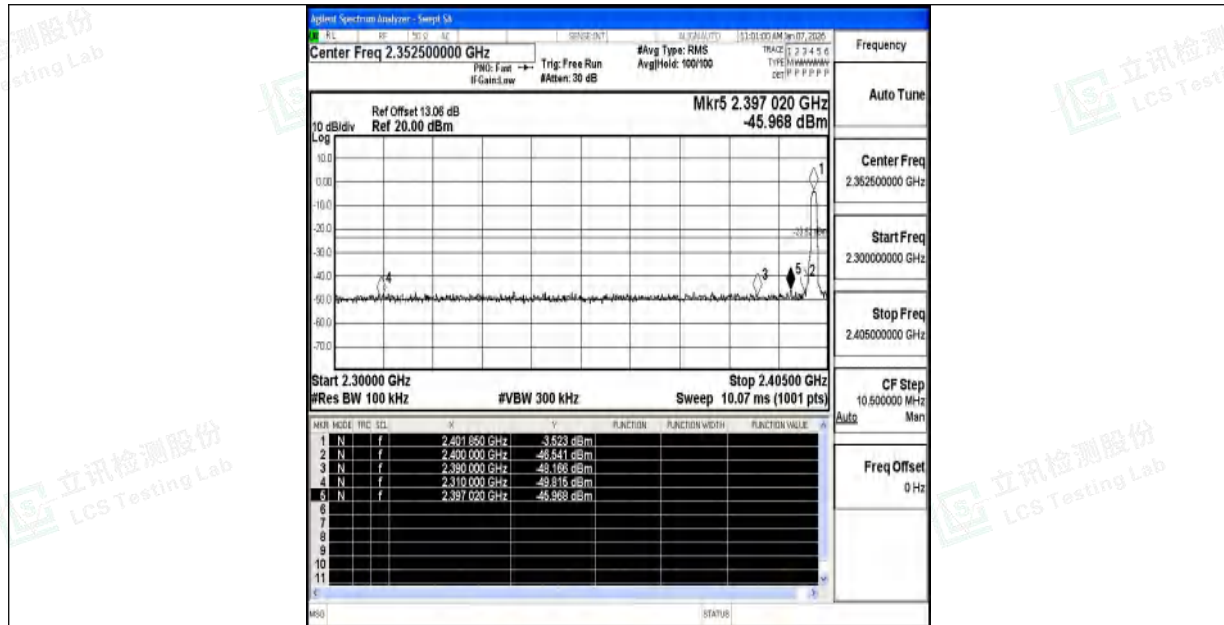


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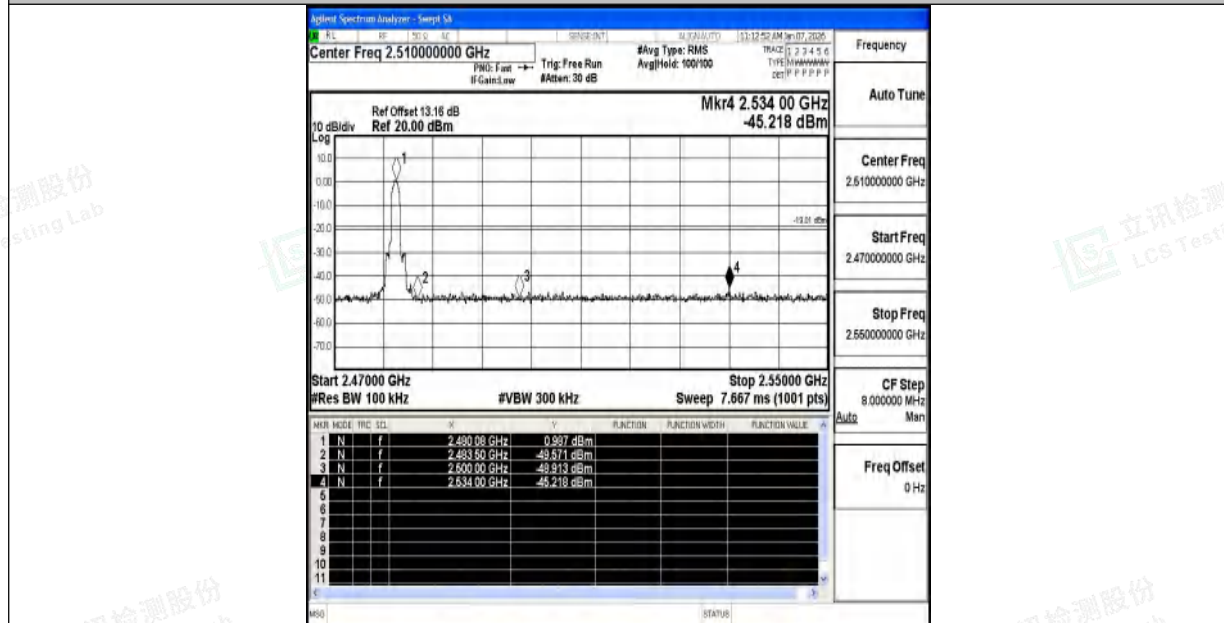
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2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS

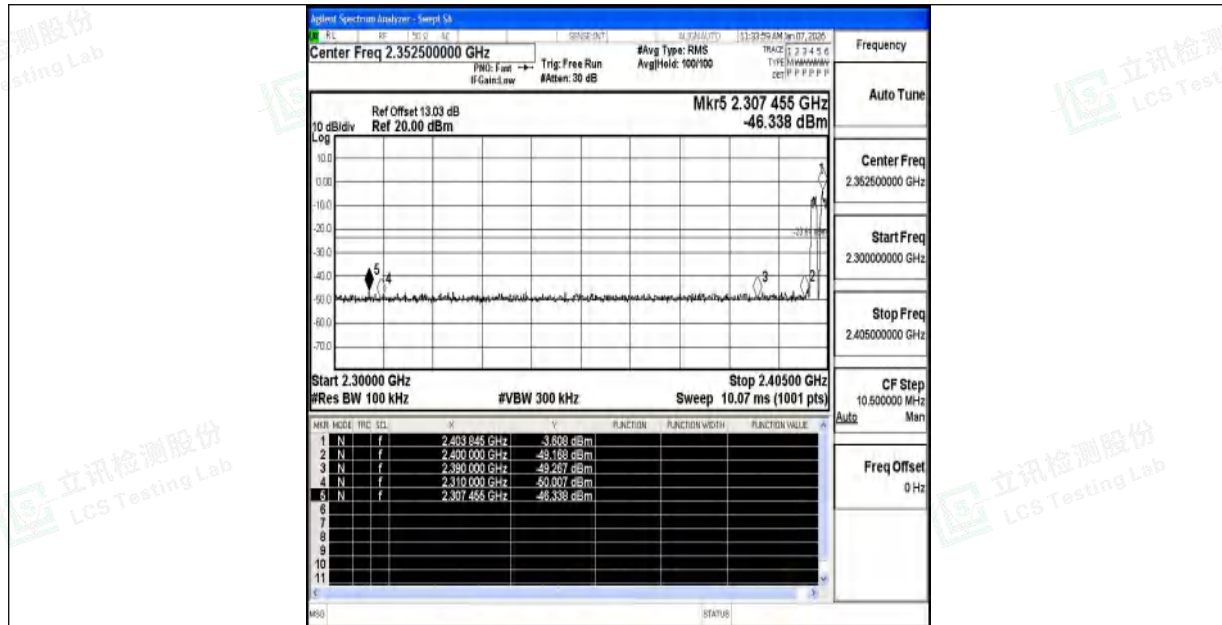


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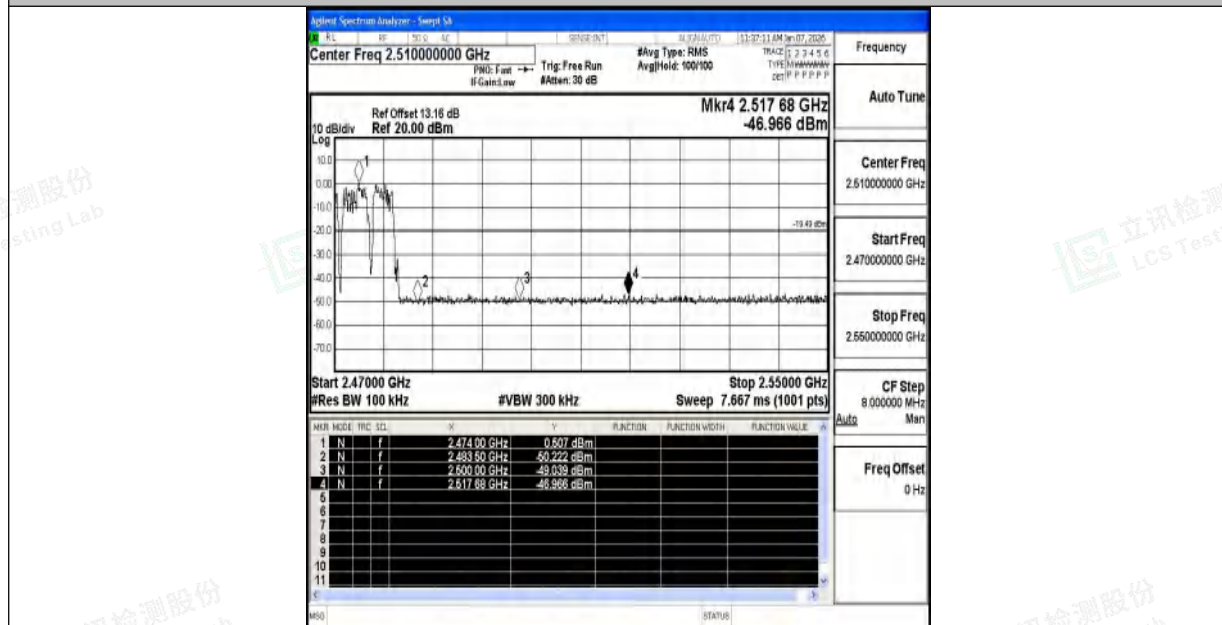
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2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

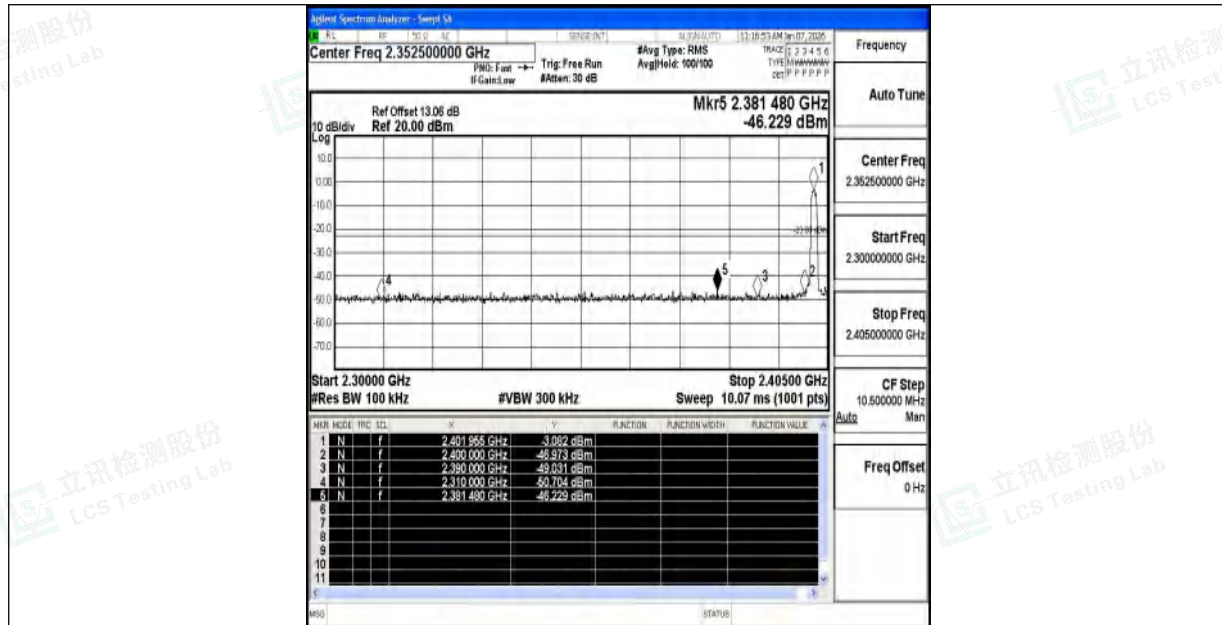


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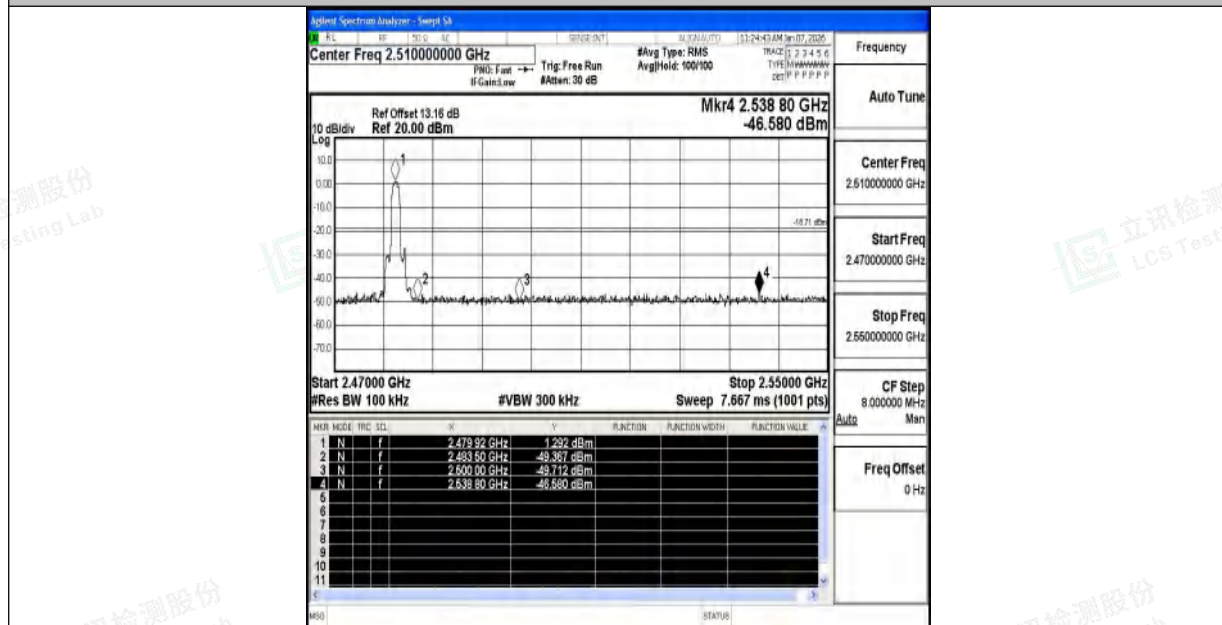
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3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS

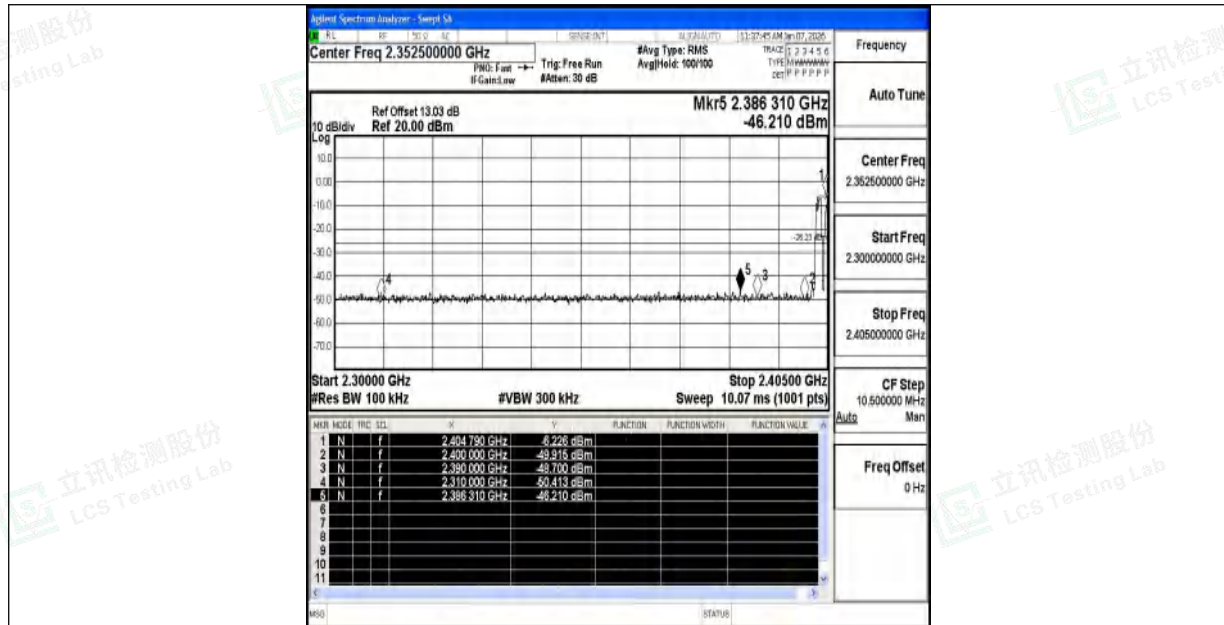


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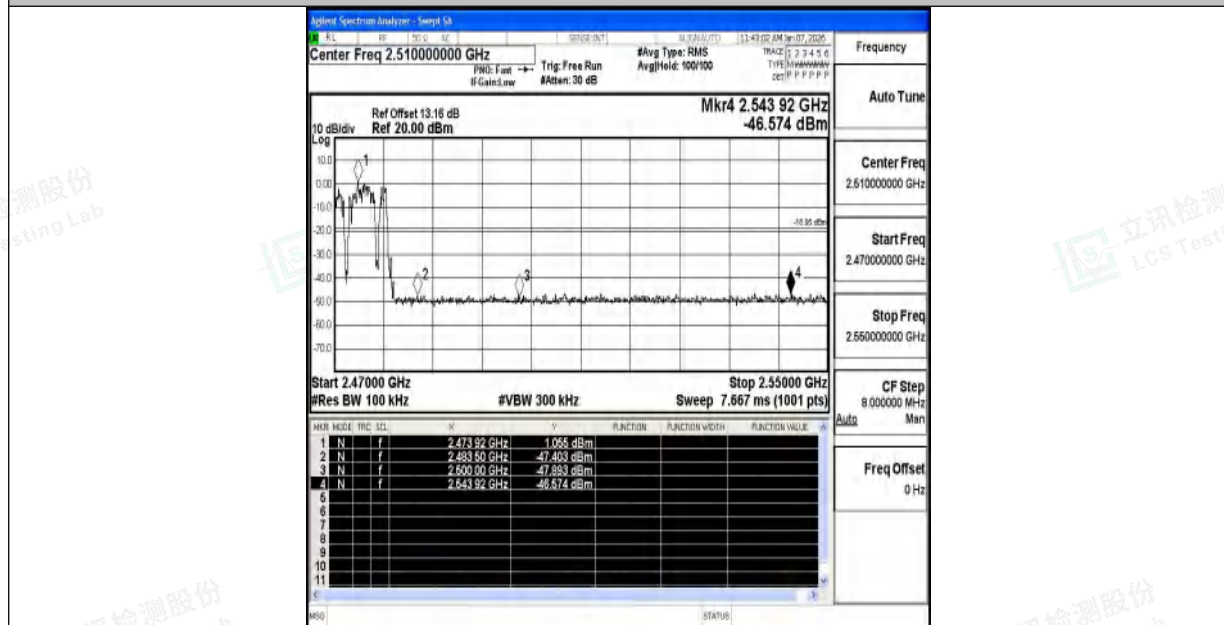
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3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



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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	0~Reference	-1.26	-1.26	---	PASS
DH5	Ant1	2402	30~1000	-1.26	-56.62	≤-21.26	PASS
DH5	Ant1	2402	1000~26500	-1.26	-44.54	≤-21.26	PASS
DH5	Ant1	2441	0~Reference	1.79	1.79	---	PASS
DH5	Ant1	2441	30~1000	1.79	-56.67	≤-18.21	PASS
DH5	Ant1	2441	1000~26500	1.79	-44.61	≤-18.21	PASS
DH5	Ant1	2480	0~Reference	2.78	2.78	---	PASS
DH5	Ant1	2480	30~1000	2.78	-56.77	≤-17.22	PASS
DH5	Ant1	2480	1000~26500	2.78	-42.89	≤-17.22	PASS
2DH5	Ant1	2402	0~Reference	-4.70	-4.70	---	PASS
2DH5	Ant1	2402	30~1000	-4.70	-55.96	≤-24.7	PASS
2DH5	Ant1	2402	1000~26500	-4.70	-44	≤-24.7	PASS
2DH5	Ant1	2441	0~Reference	1.64	1.64	---	PASS
2DH5	Ant1	2441	30~1000	1.64	-56.56	≤-18.36	PASS
2DH5	Ant1	2441	1000~26500	1.64	-44.54	≤-18.36	PASS
2DH5	Ant1	2480	0~Reference	0.09	0.09	---	PASS
2DH5	Ant1	2480	30~1000	0.09	-56.51	≤-19.91	PASS
2DH5	Ant1	2480	1000~26500	0.09	-44.71	≤-19.91	PASS
3DH5	Ant1	2402	0~Reference	-0.93	-0.93	---	PASS
3DH5	Ant1	2402	30~1000	-0.93	-56.5	≤-20.93	PASS
3DH5	Ant1	2402	1000~26500	-0.93	-44.06	≤-20.93	PASS
3DH5	Ant1	2441	0~Reference	-0.39	-0.39	---	PASS
3DH5	Ant1	2441	30~1000	-0.39	-56.19	≤-20.39	PASS
3DH5	Ant1	2441	1000~26500	-0.39	-43.67	≤-20.39	PASS
3DH5	Ant1	2480	0~Reference	1.45	1.45	---	PASS
3DH5	Ant1	2480	30~1000	1.45	-56.53	≤-18.55	PASS
3DH5	Ant1	2480	1000~26500	1.45	-44.48	≤-18.55	PASS



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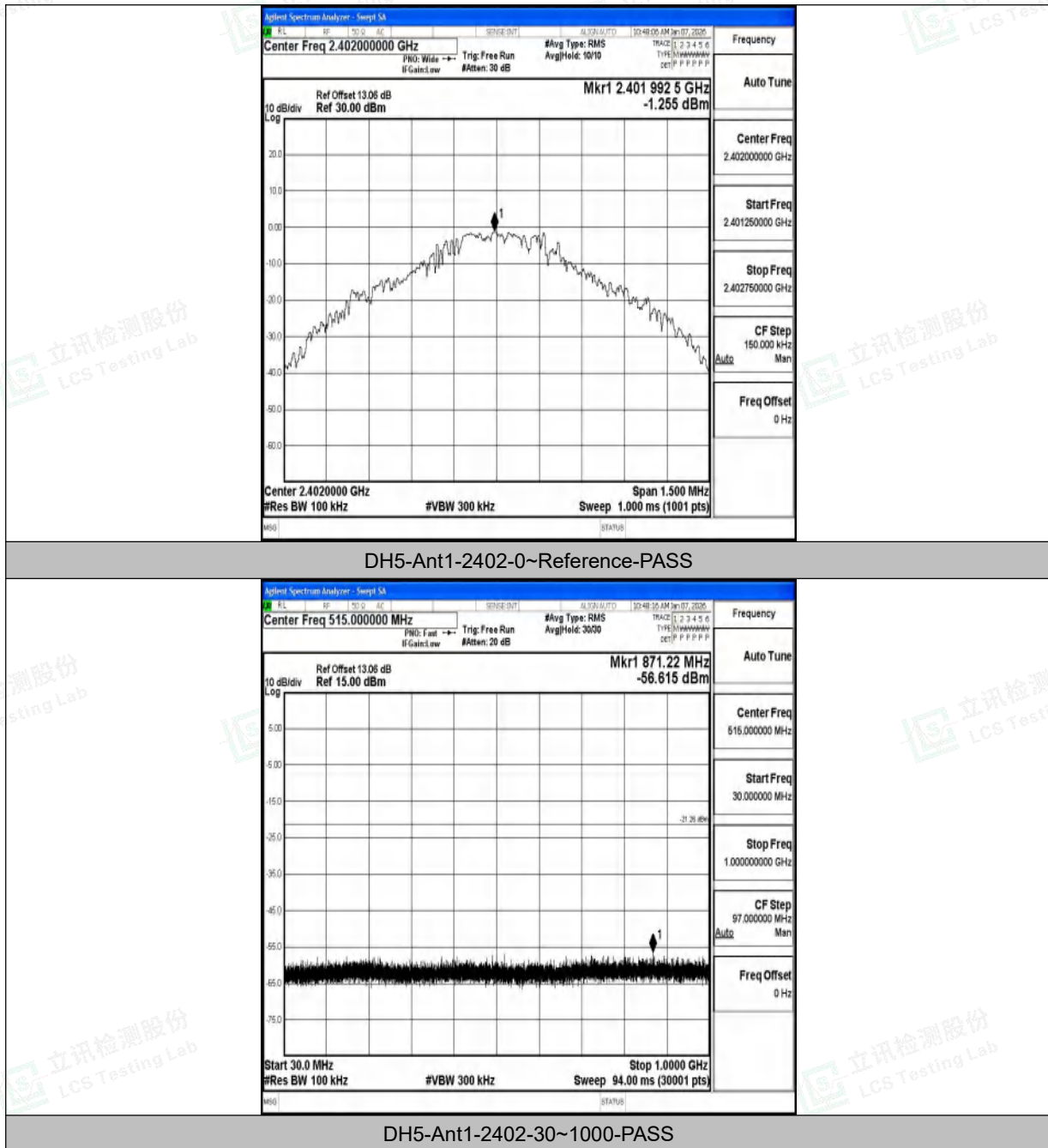
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Test Graphs

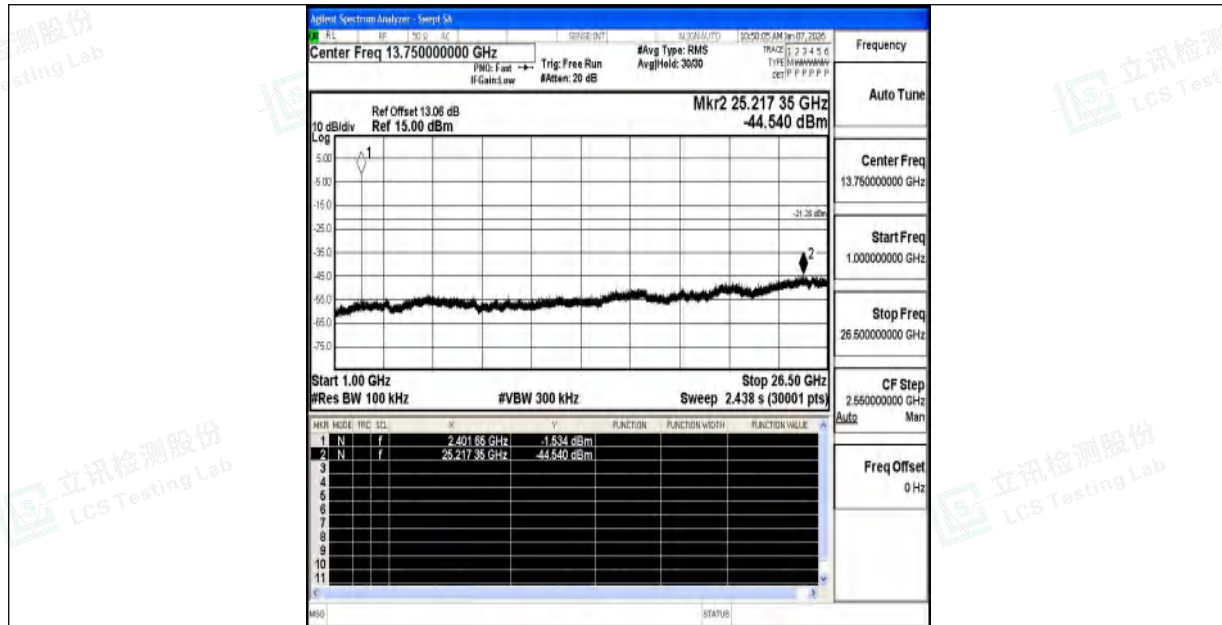


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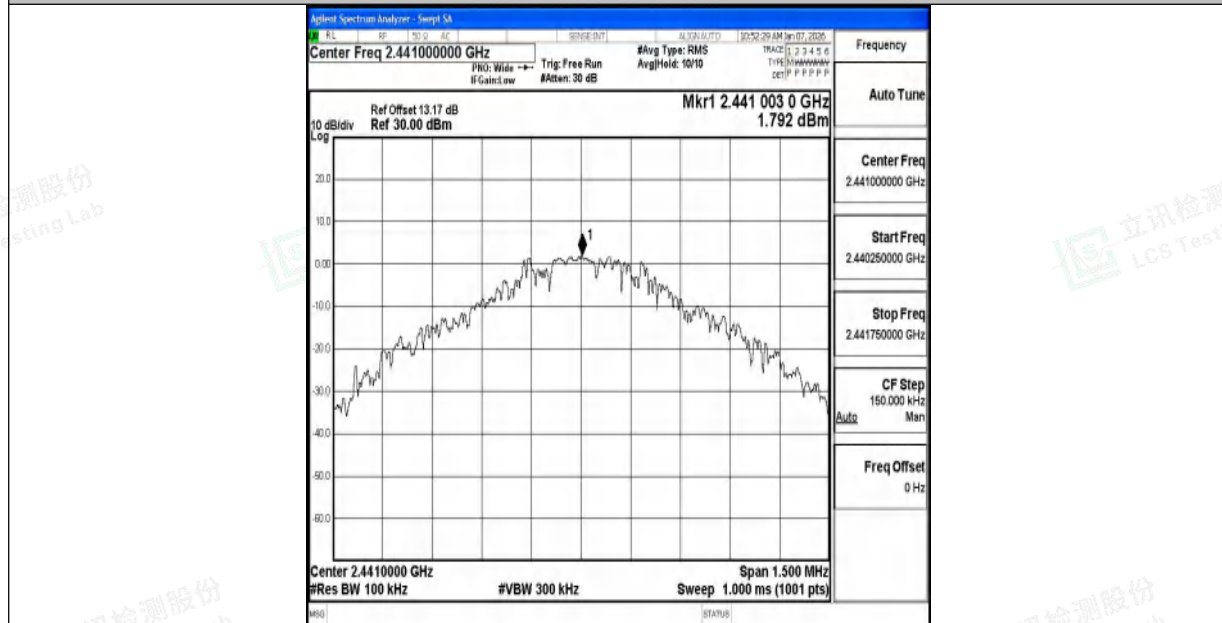
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DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS

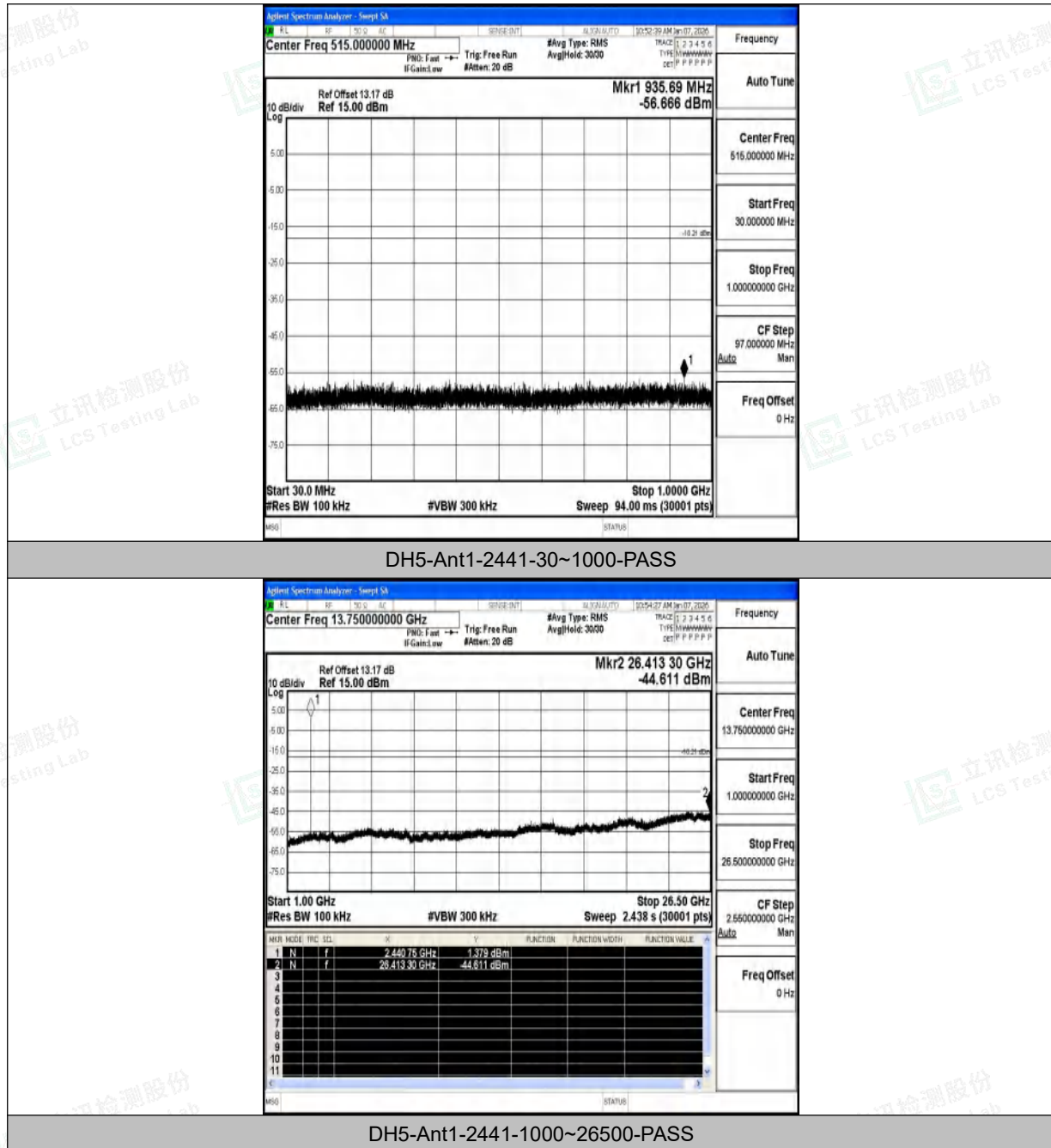


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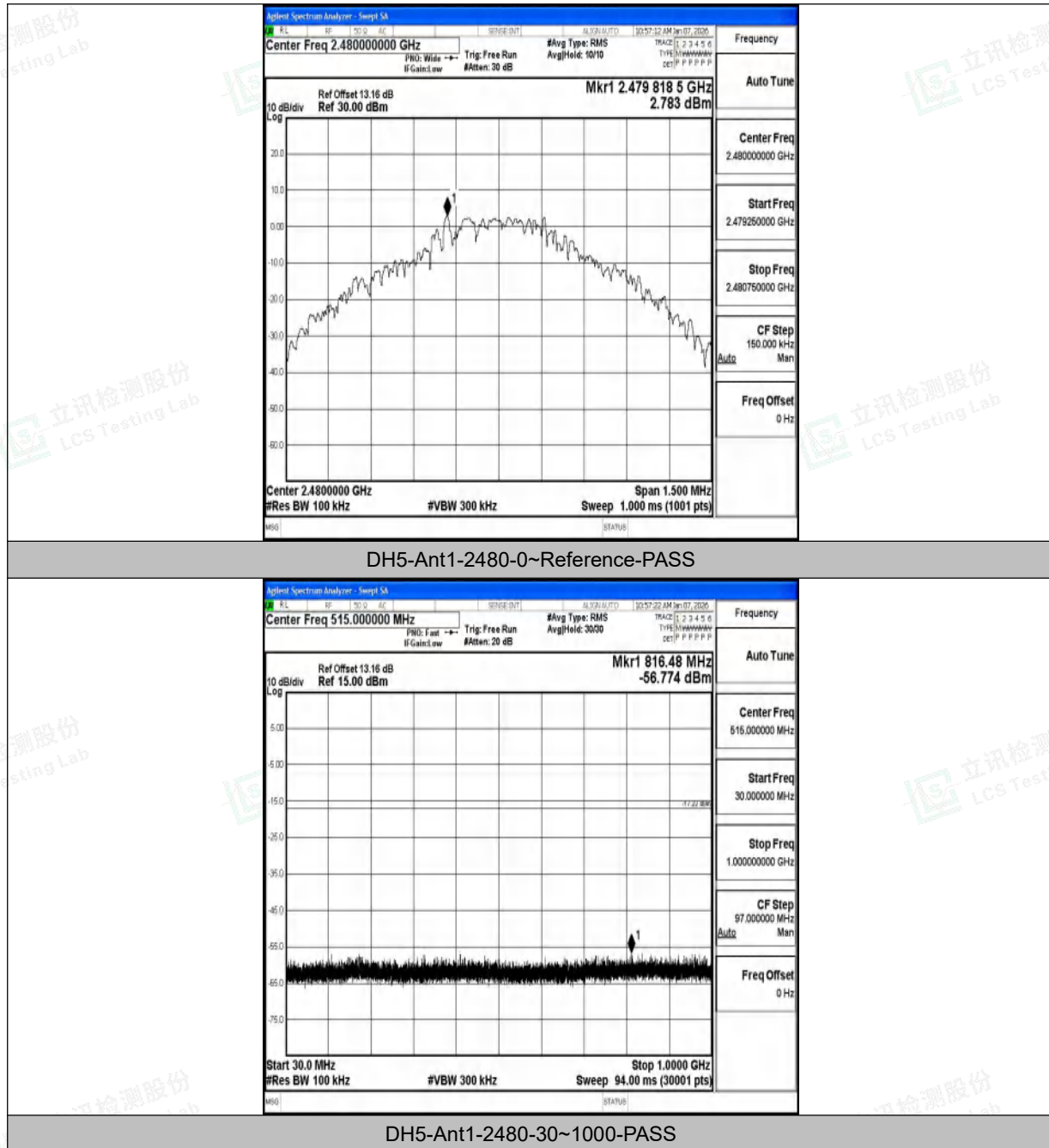


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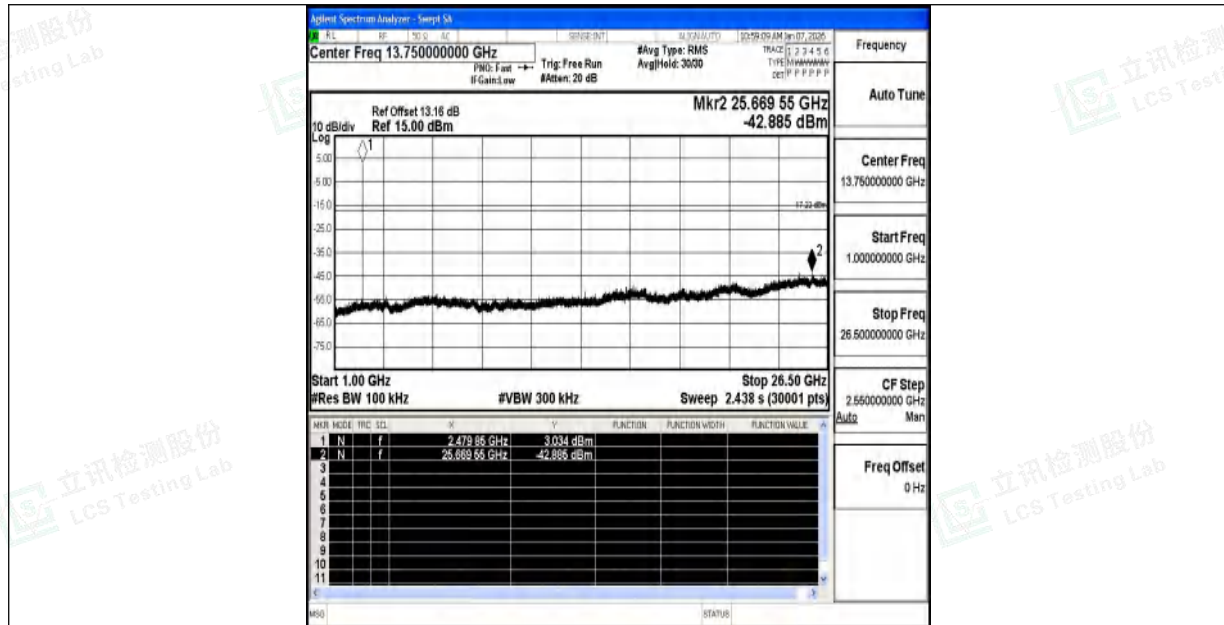


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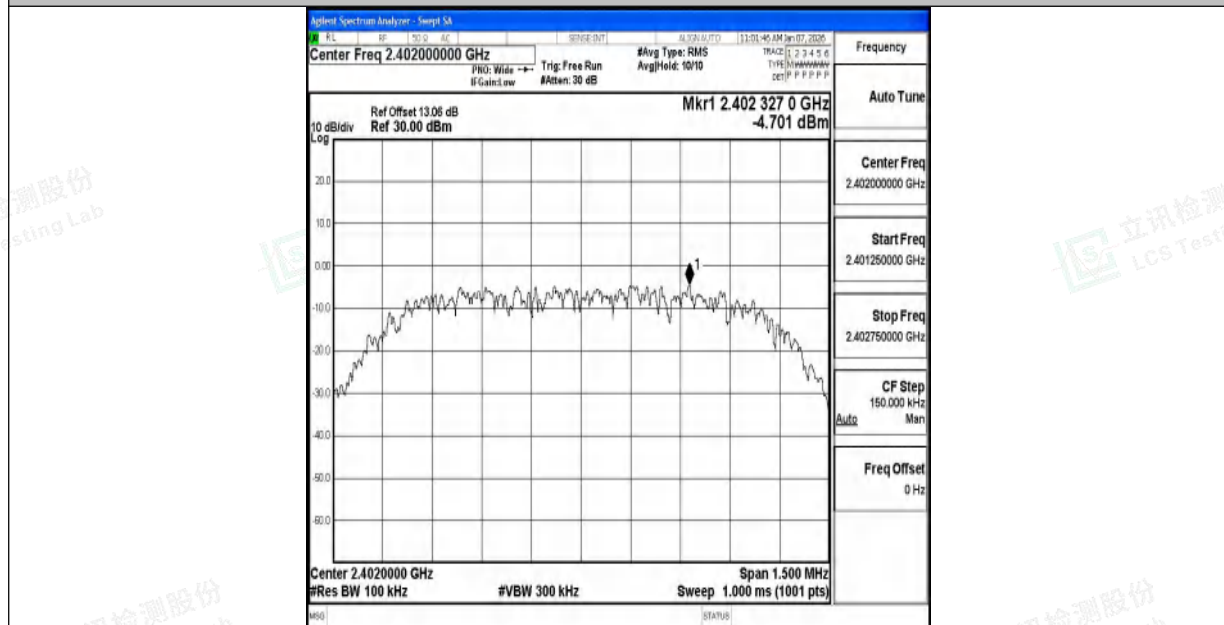
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DH5-Ant1-2480-1000~26500-PASS



2DH5-Ant1-2402-0~Reference-PASS

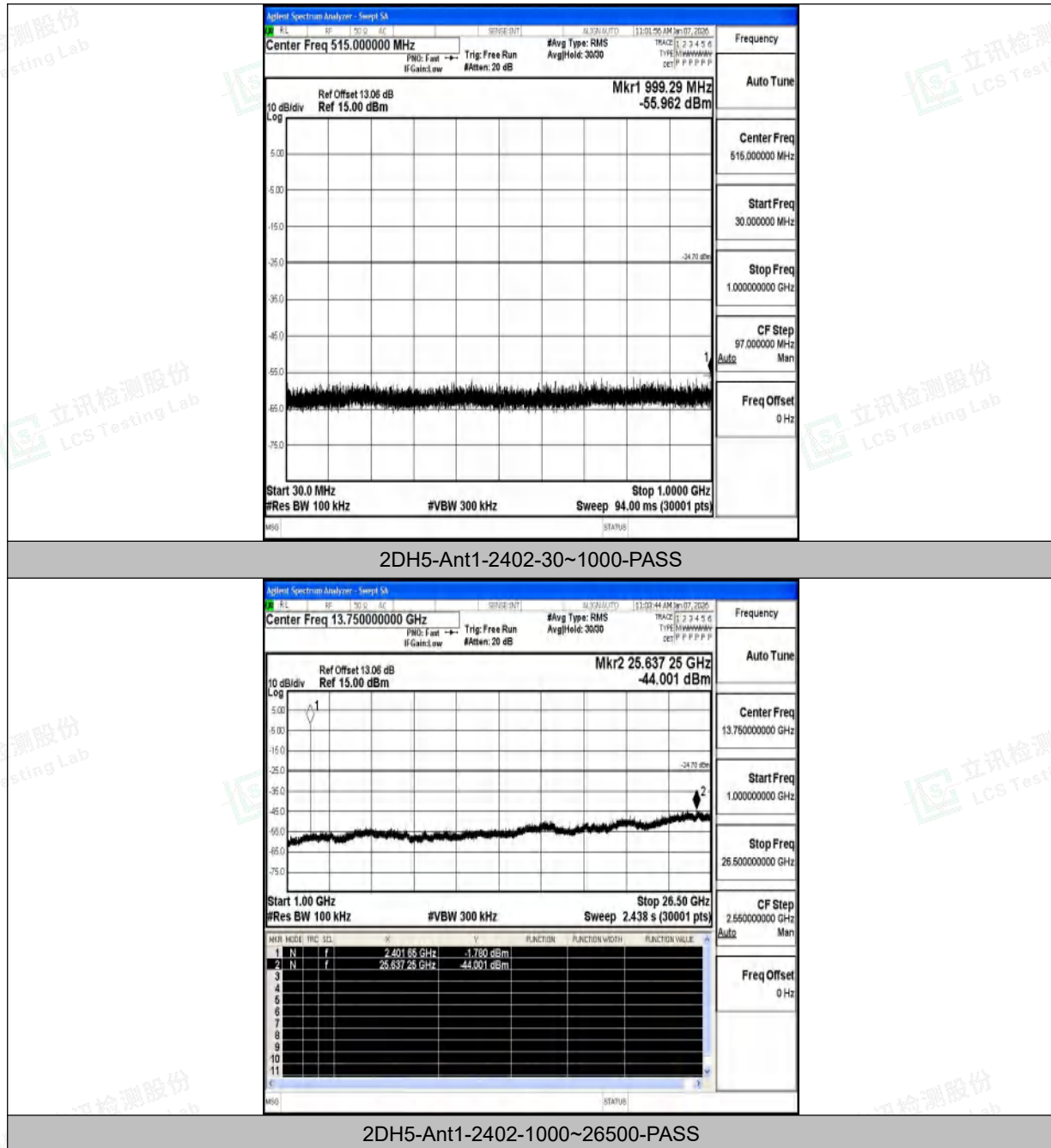


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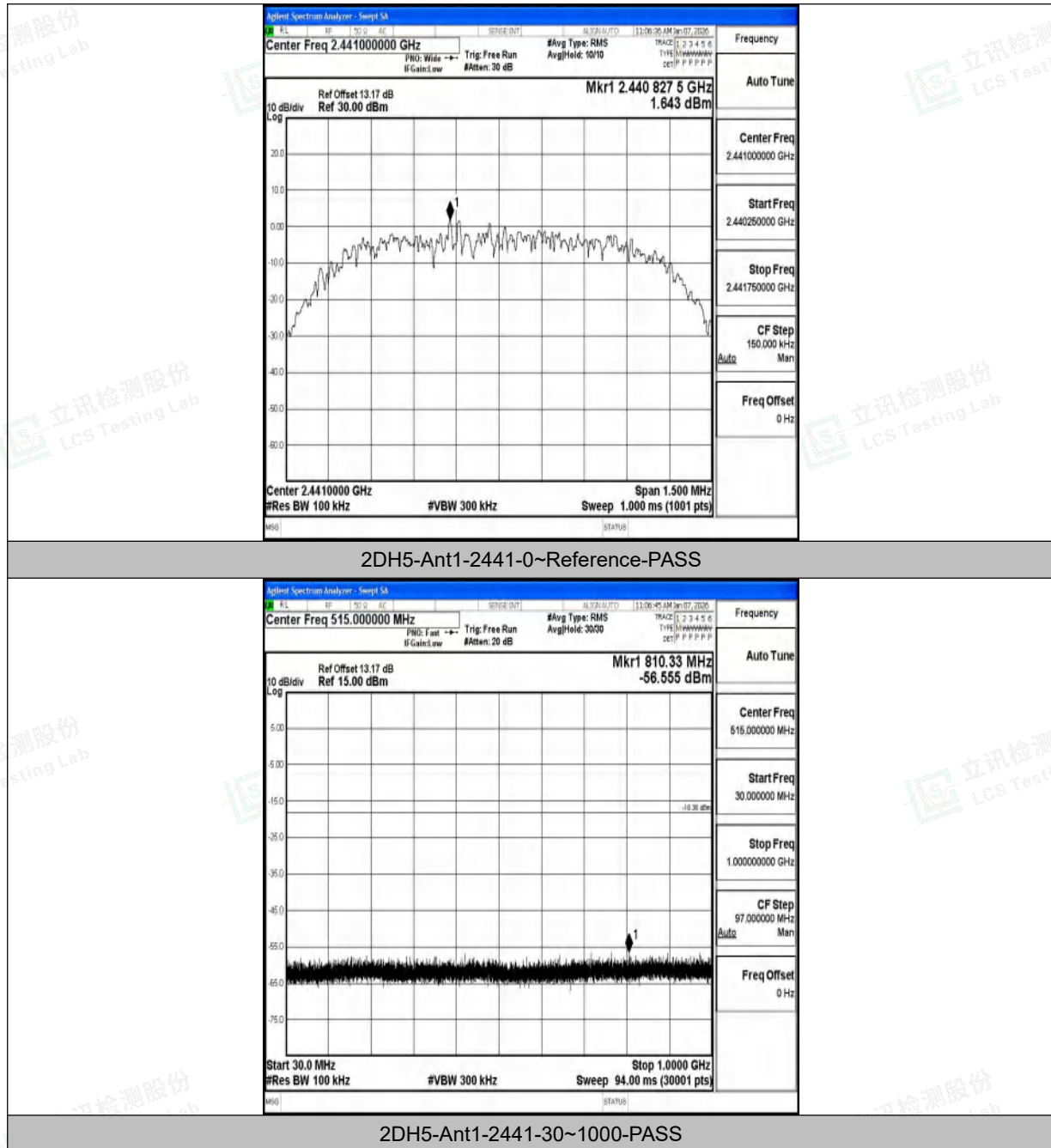


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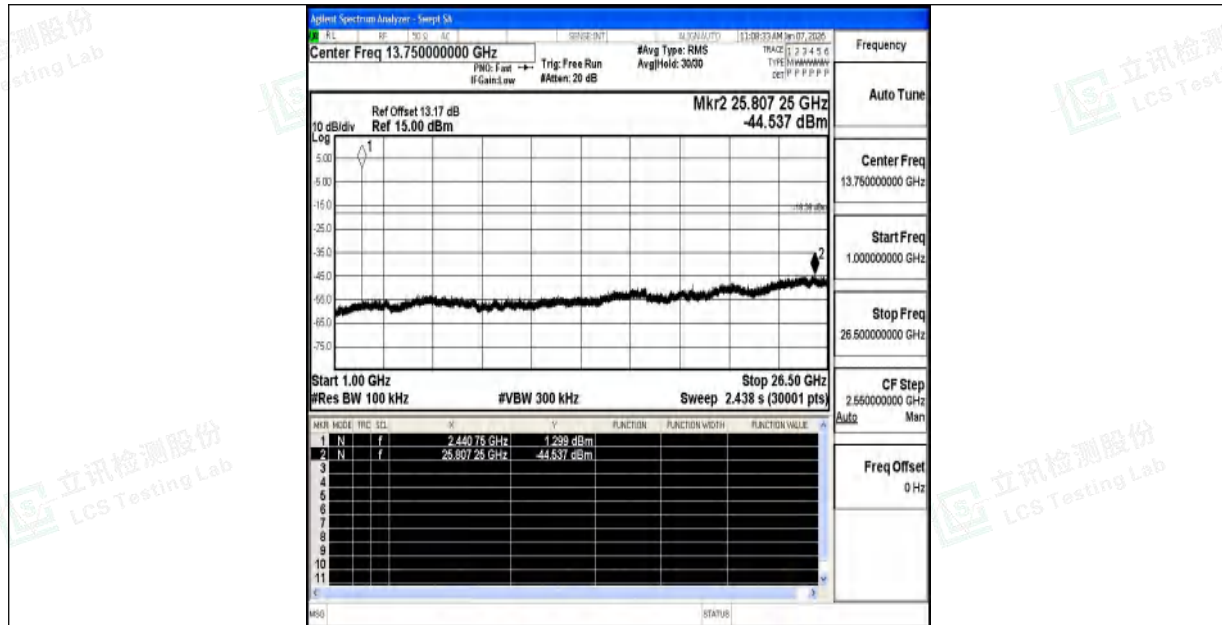


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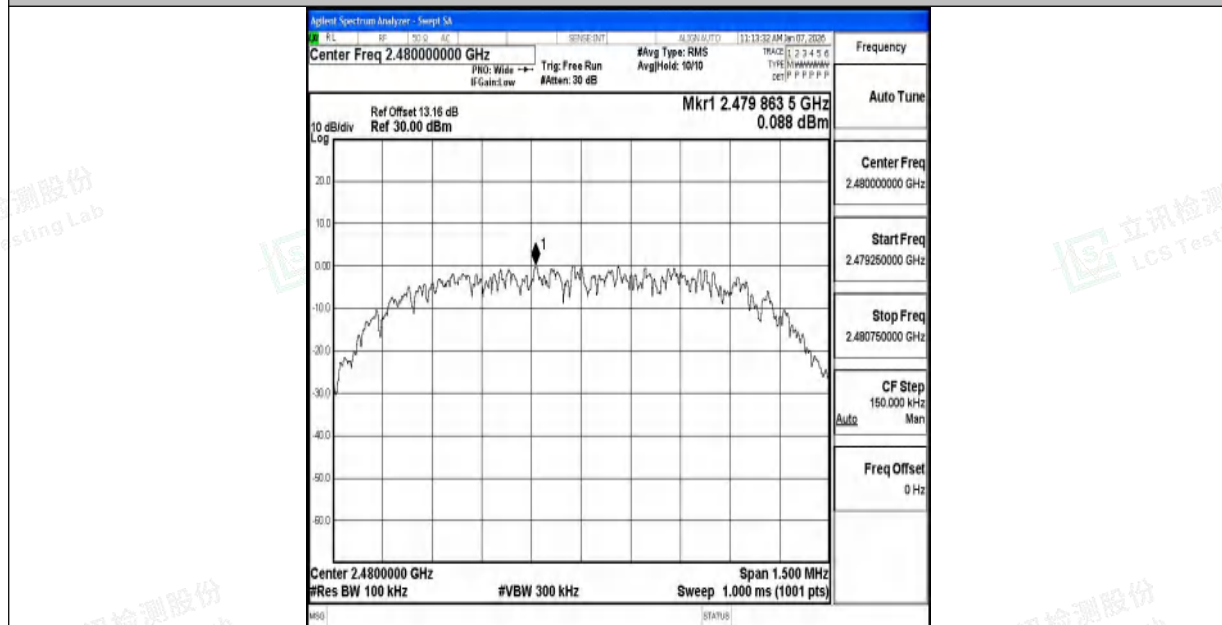
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2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS

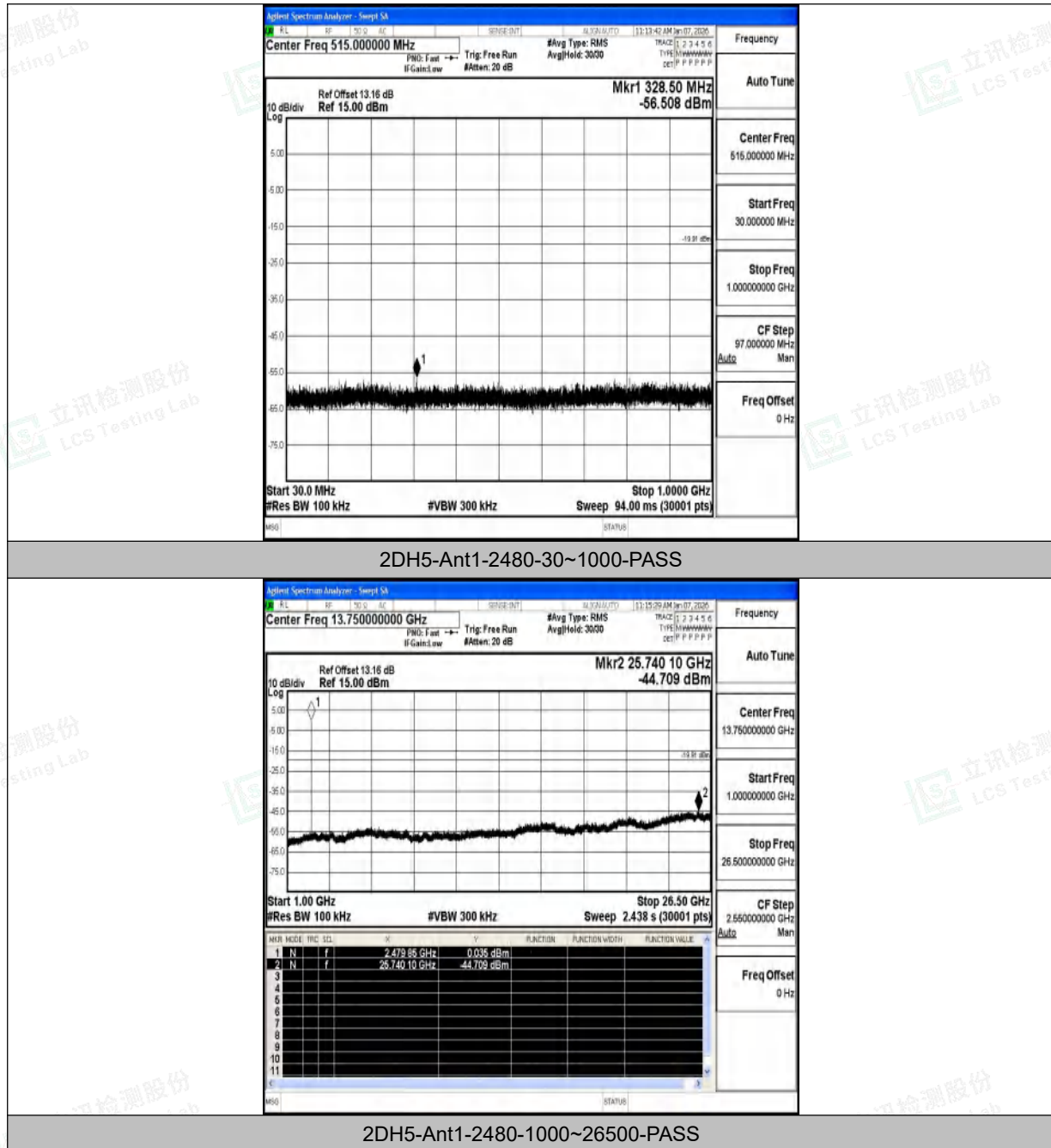


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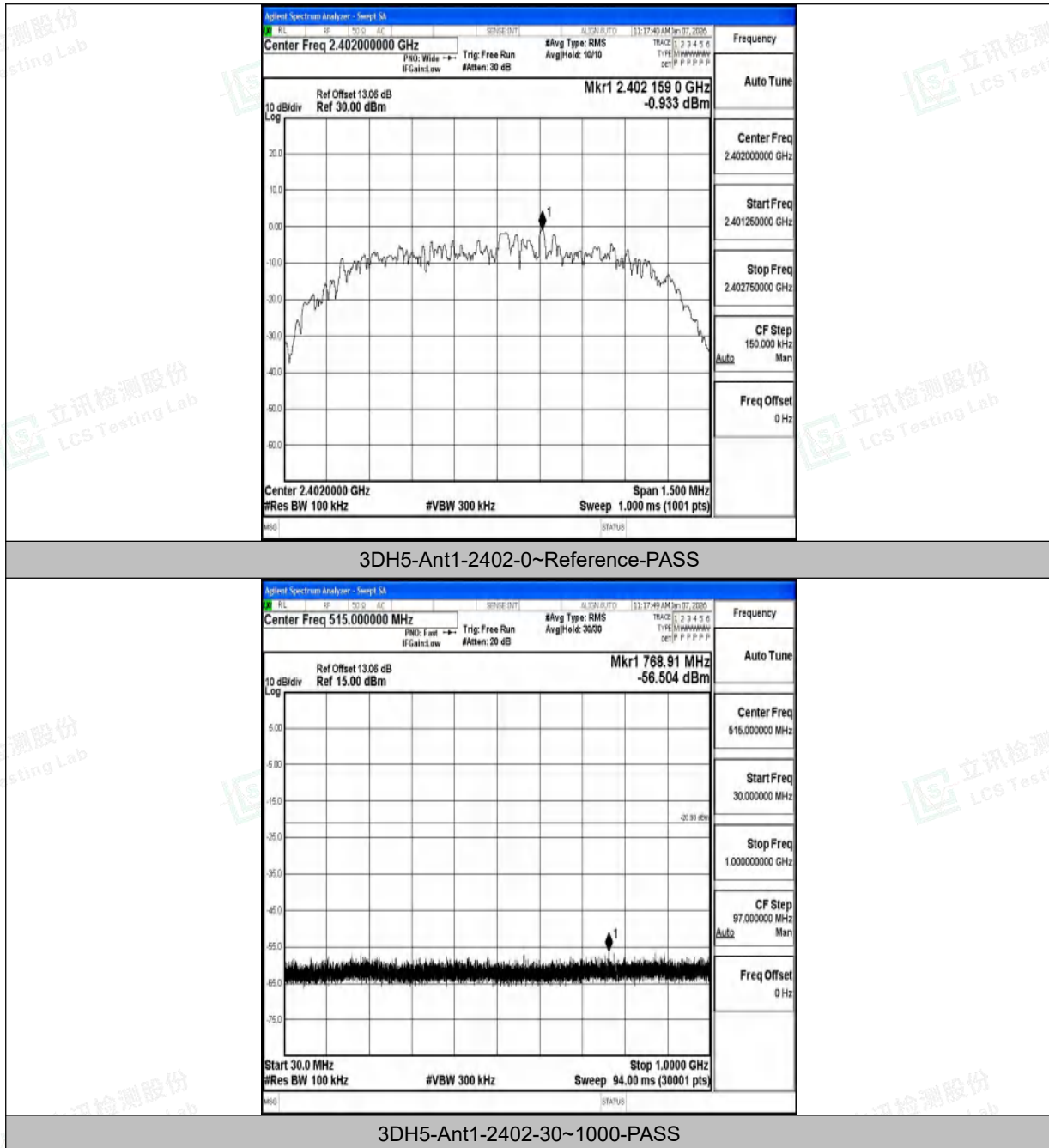


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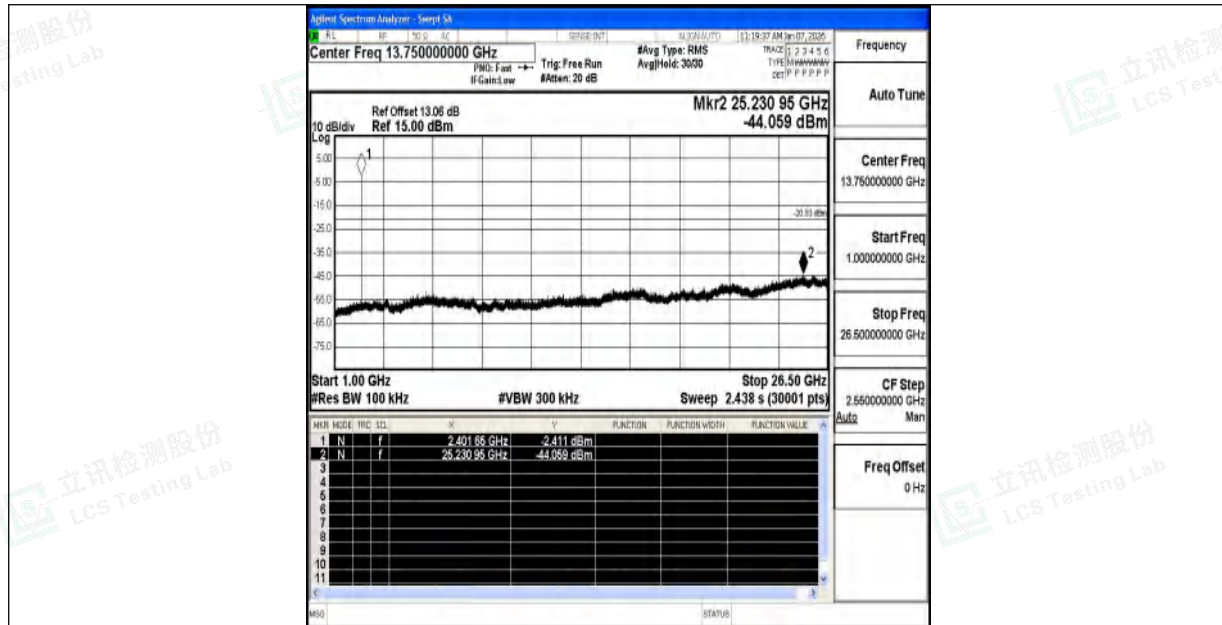


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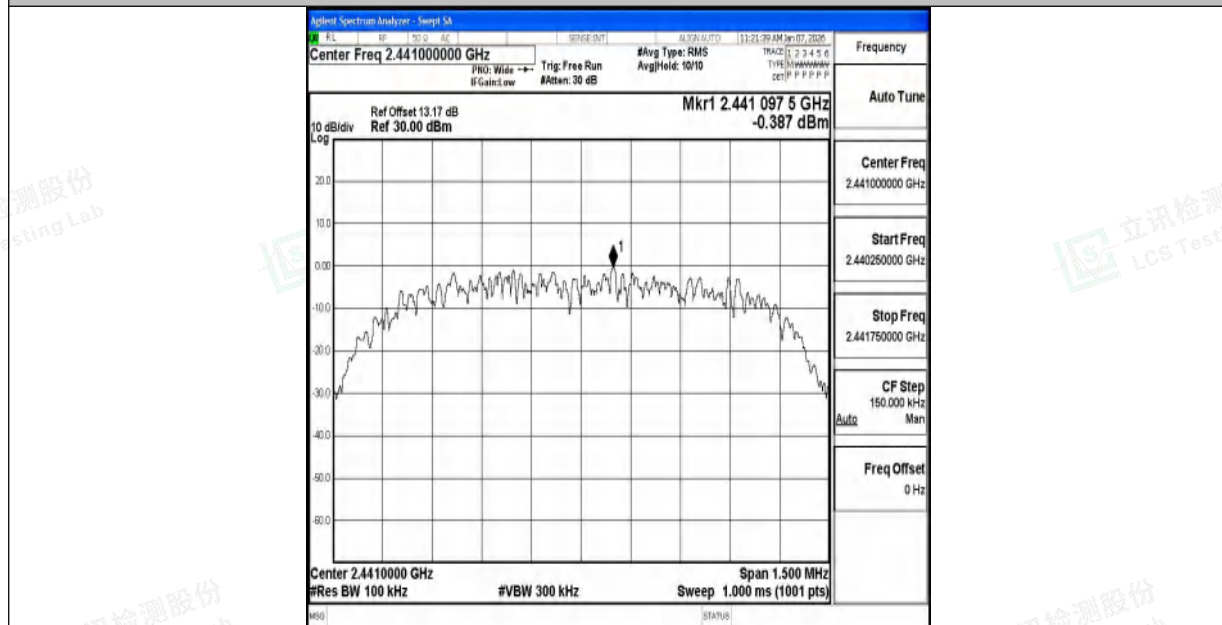
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3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS

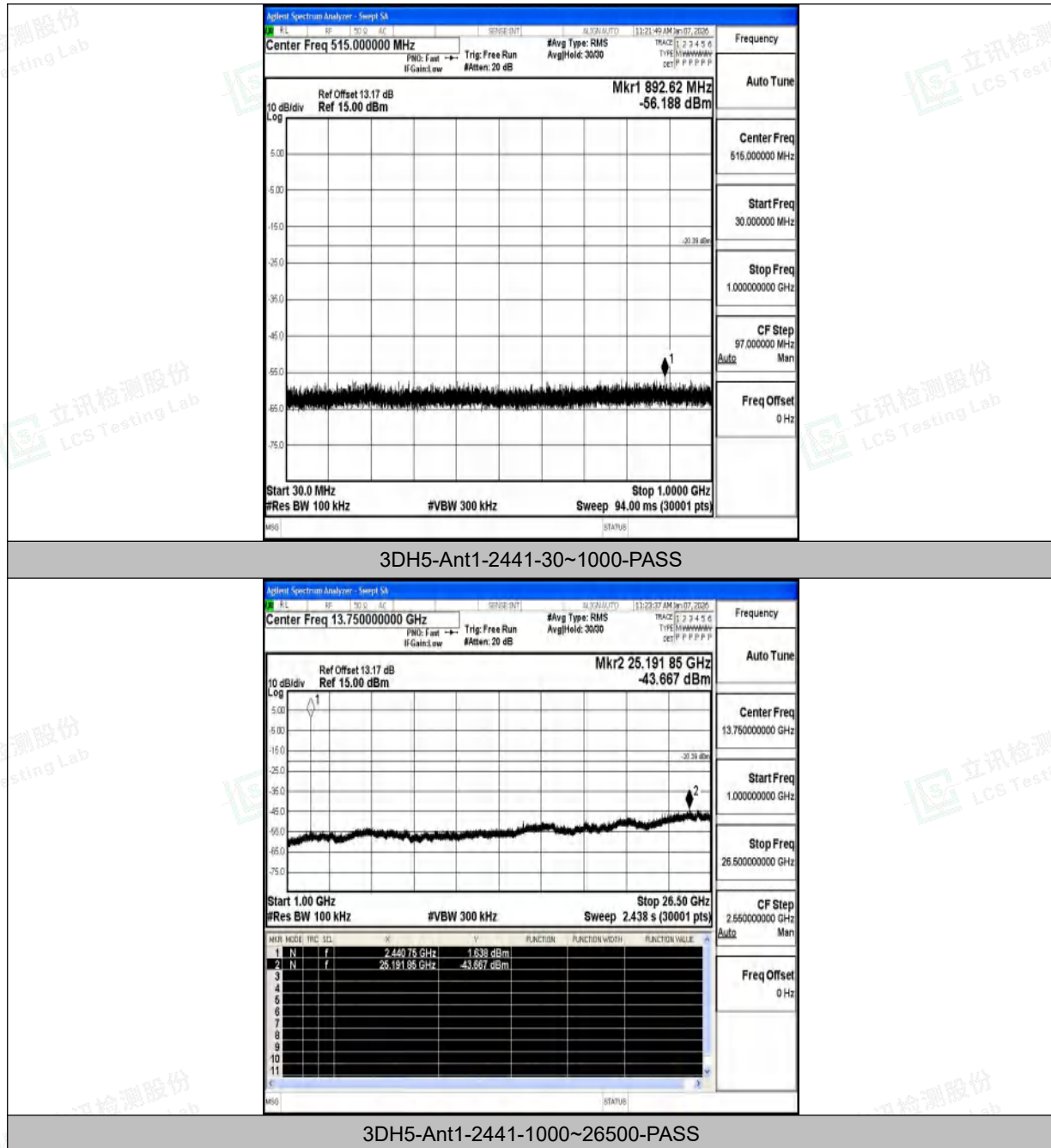


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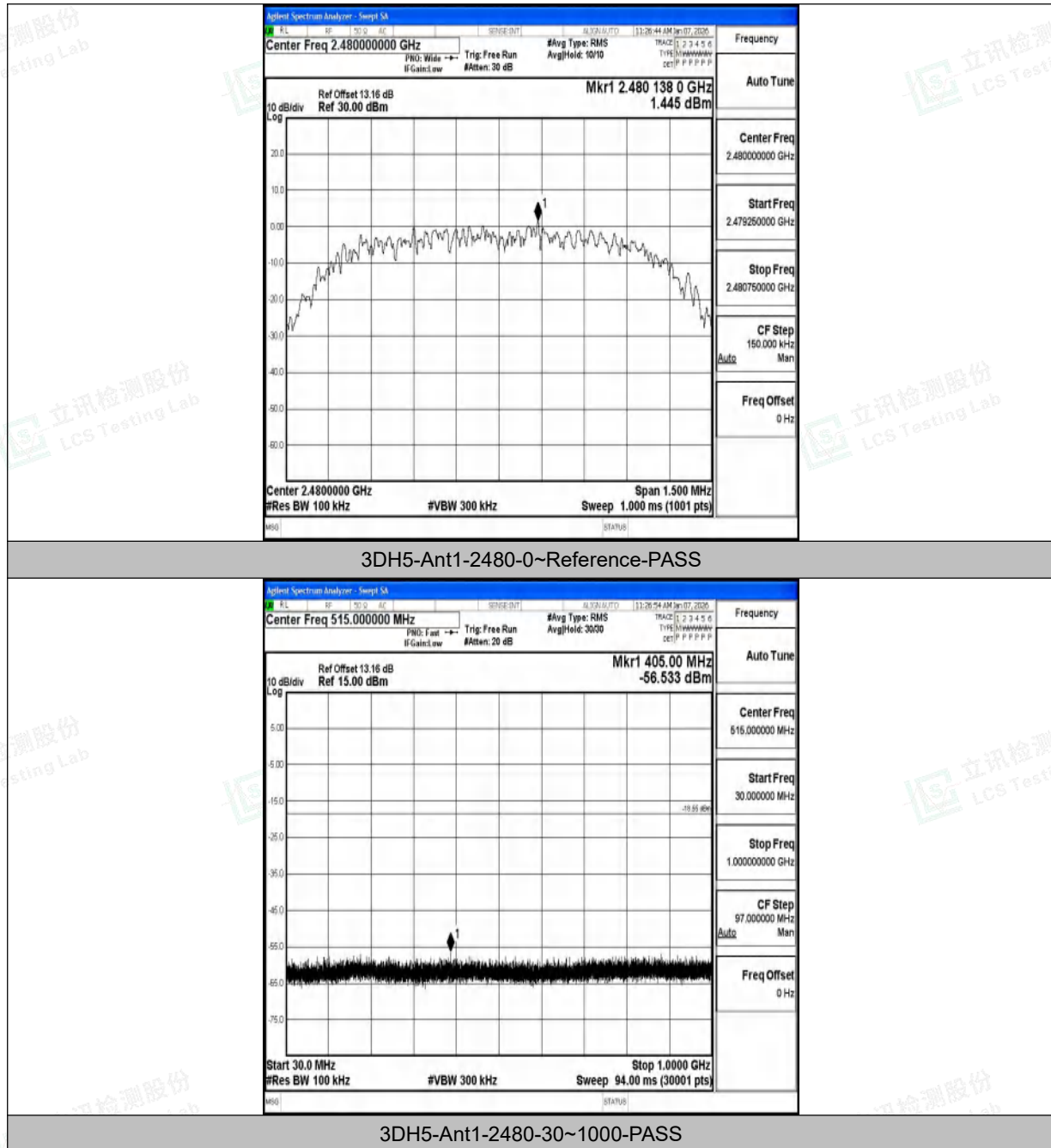


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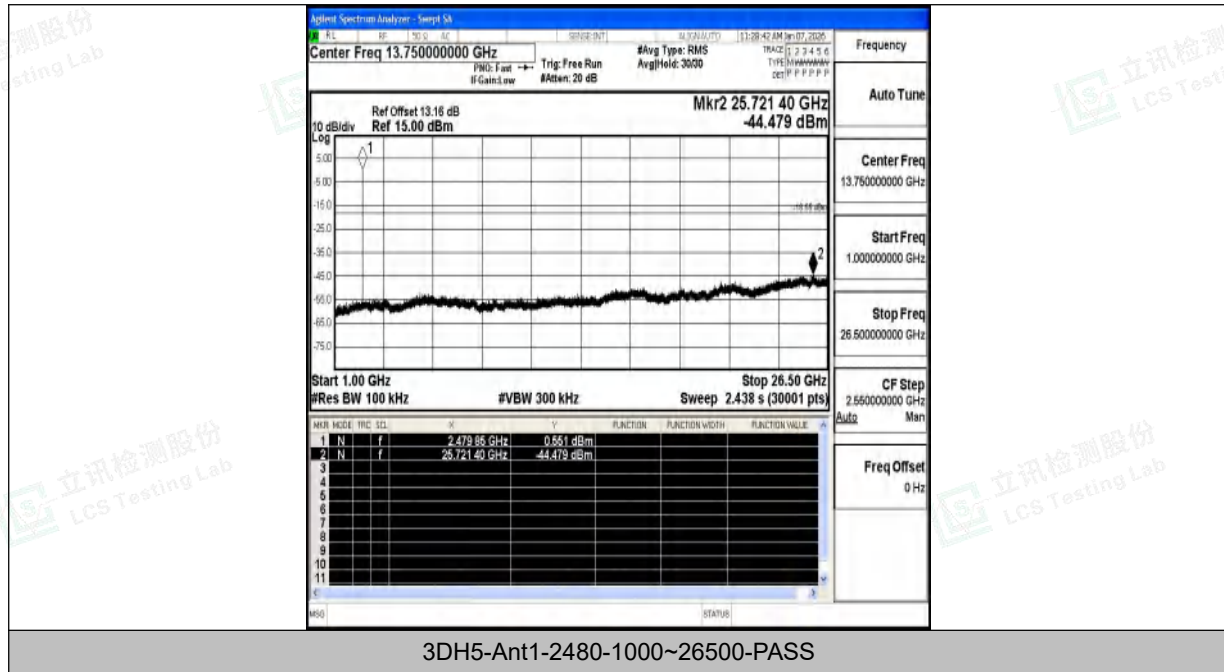


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A.8 Duty Cycle

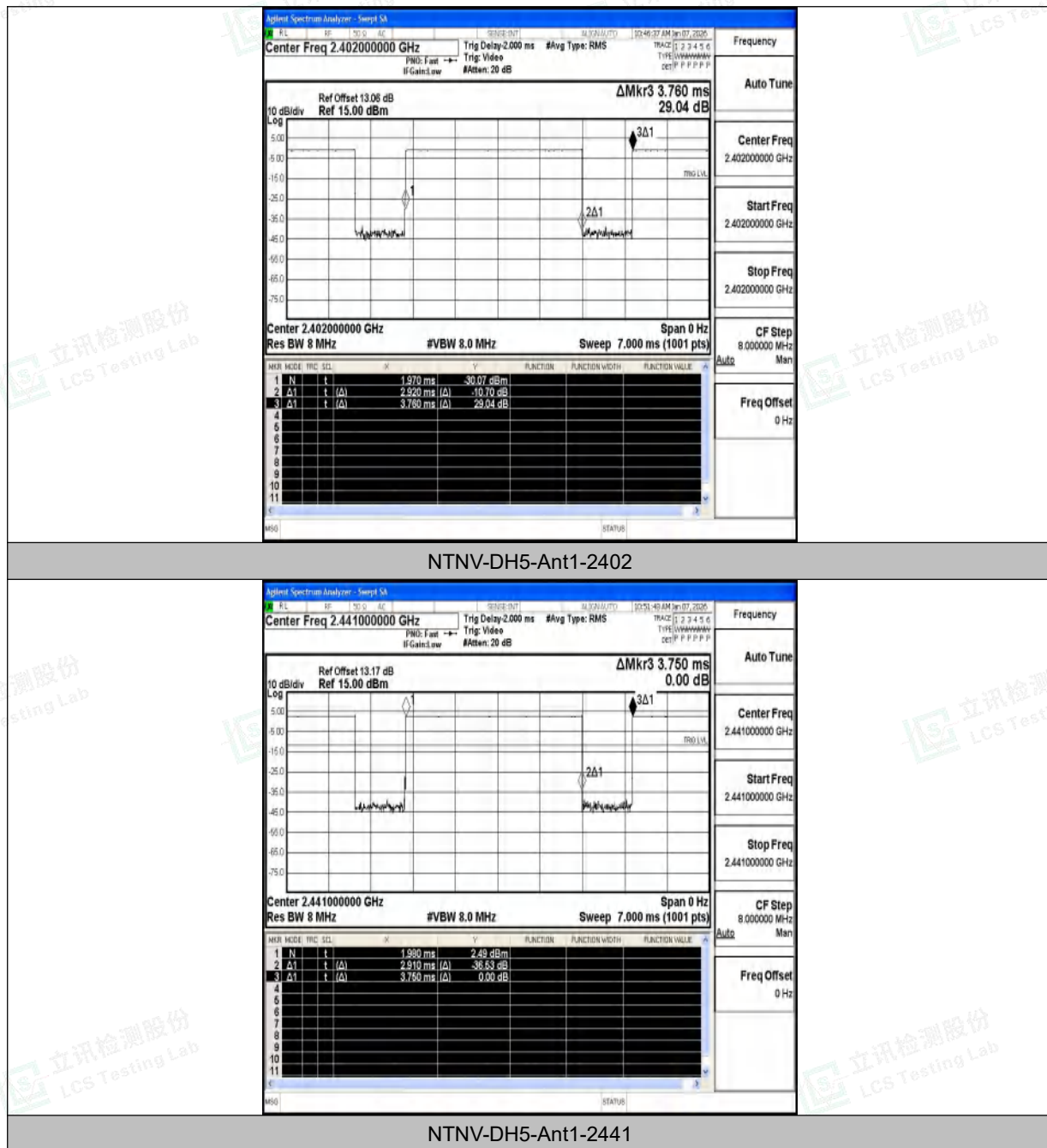
Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.92	3.76	77.66	1.10
DH5	Ant1	2441	2.91	3.75	77.60	1.10
DH5	Ant1	2480	2.92	3.76	77.66	1.10
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.90	3.74	77.54	1.10
3DH5	Ant1	2480	0.14	0.14	100.00	0.00





Test Graphs

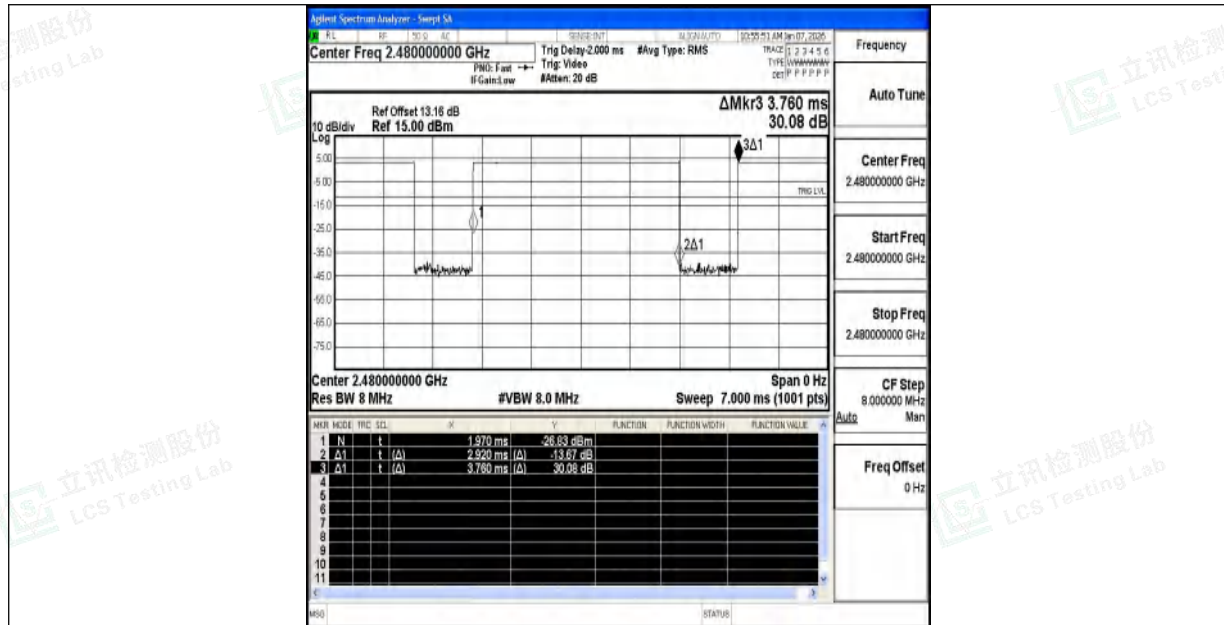


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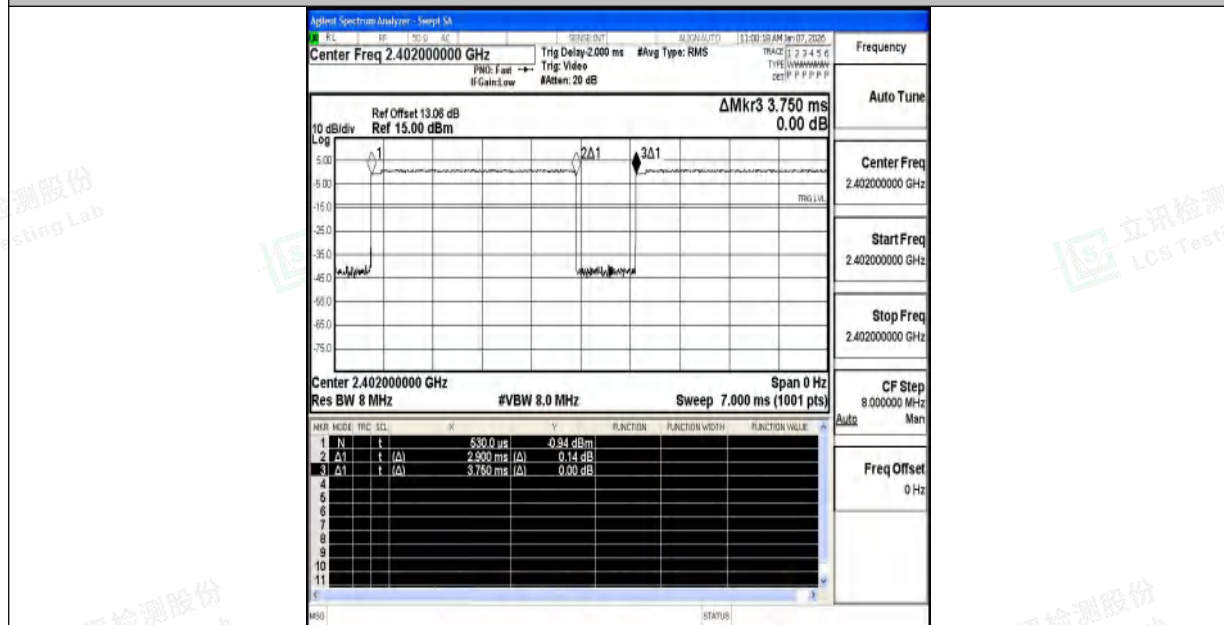
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NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402

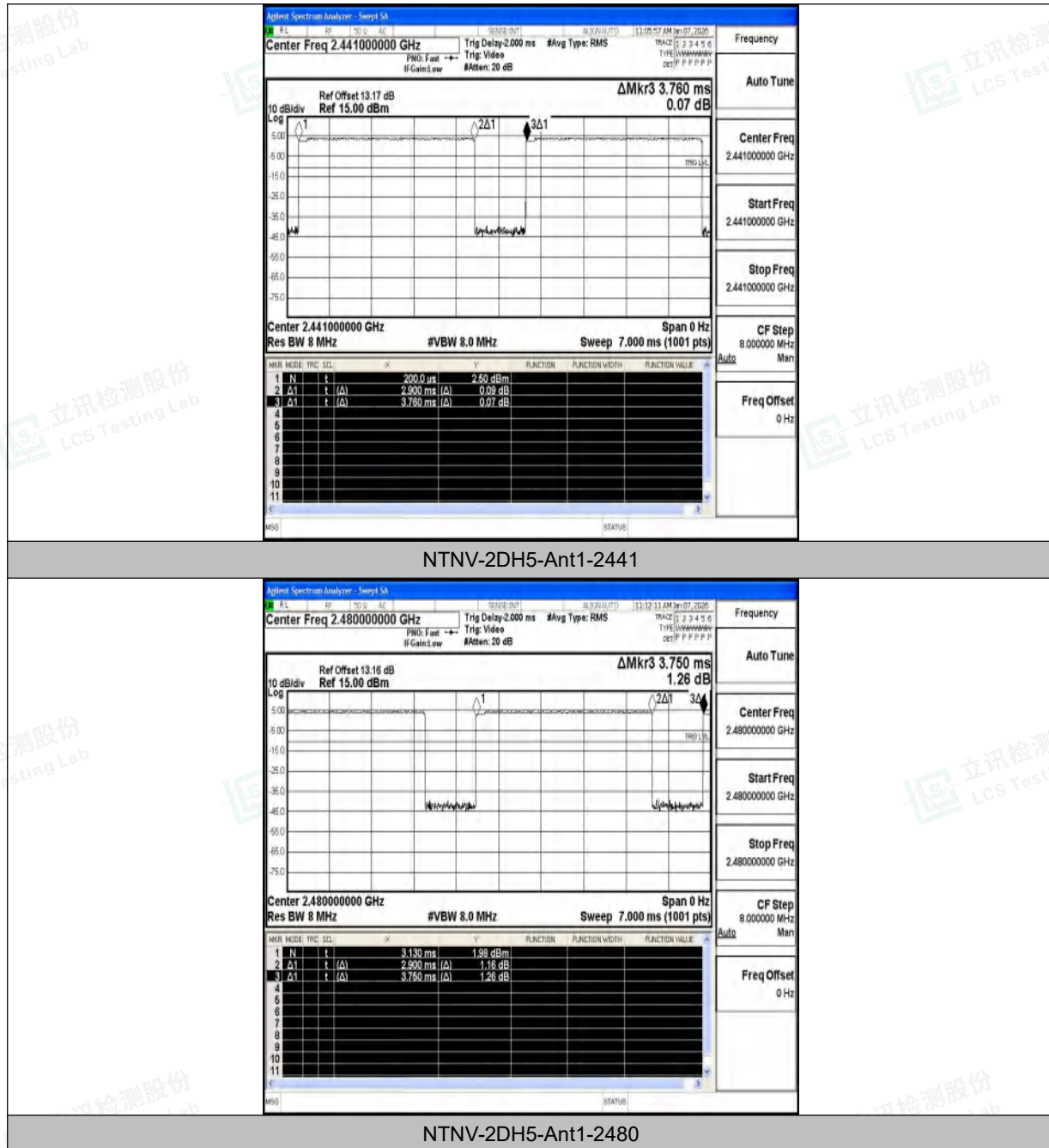


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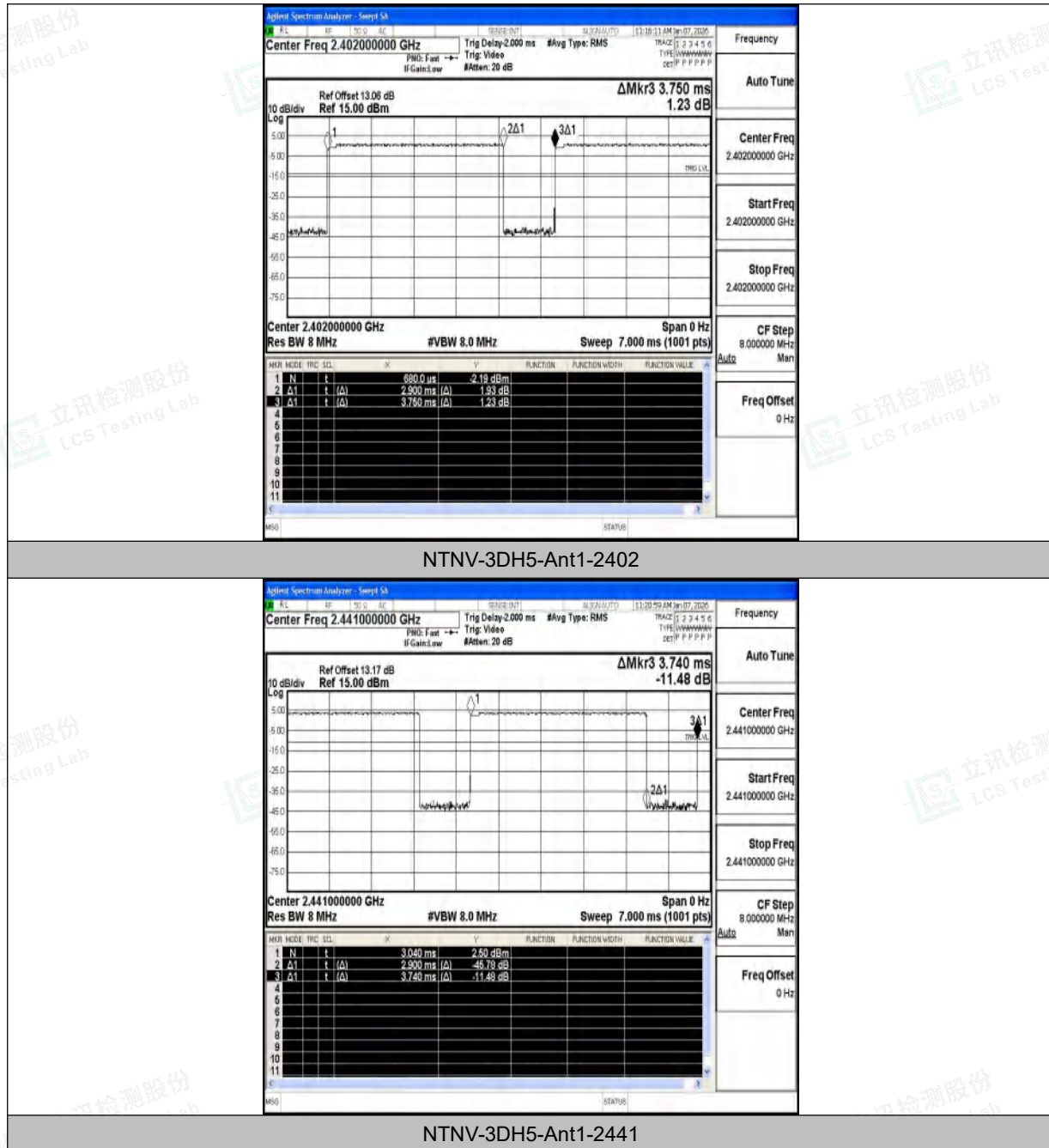


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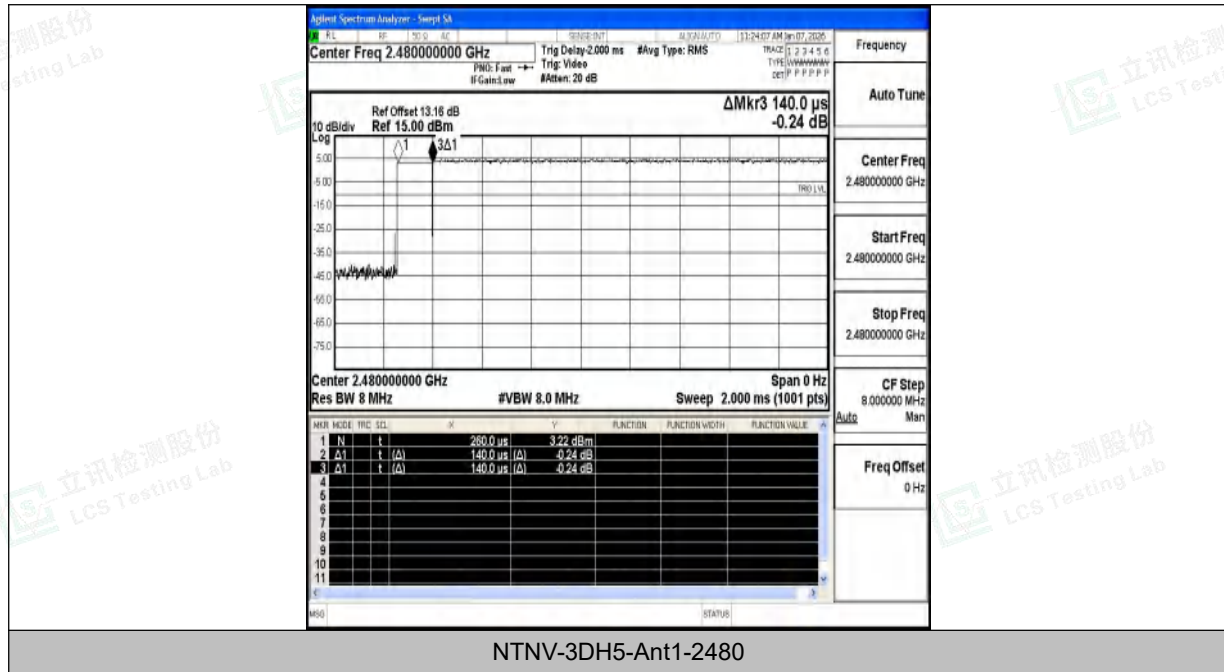


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[M Hz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBu V/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-36.95	≤-21.20	58.25	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-39.19	≤-21.20	56.01	≤74	PASS
DH5	Ant1	Low	2402	Peak	2377.805	-34.95	≤-21.20	60.25	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-44.76	≤-41.20	50.44	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-45.3	≤-41.20	49.90	≤54	PASS
DH5	Ant1	Low	2402	AV	2388.095	-44.62	≤-41.20	50.58	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-37.85	≤-21.20	57.35	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-38.59	≤-21.20	56.61	≤74	PASS
DH5	Ant1	High	2480	Peak	2496.000	-35.13	≤-21.20	60.07	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-44.82	≤-41.20	50.38	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-44.92	≤-41.20	50.28	≤54	PASS
DH5	Ant1	High	2480	AV	2483.520	-44.82	≤-41.20	50.38	≤54	PASS
DH5	Ant1	Low	Hop_2402	Peak	2390.000	-37.88	≤-21.20	57.32	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2310.000	-37.42	≤-21.20	57.78	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2387.990	-34.36	≤-21.20	60.84	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2483.500	-37.11	≤-21.20	58.09	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2500.000	-38.03	≤-21.20	57.17	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2492.560	-35.02	≤-21.20	60.18	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-37.95	≤-21.20	57.25	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-39.7	≤-21.20	55.50	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2359.325	-34.49	≤-21.20	60.71	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-44.8	≤-41.20	50.40	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-45.26	≤-41.20	49.94	≤54	PASS
2DH5	Ant1	Low	2402	AV	2379.590	-44.56	≤-41.20	50.64	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-37.45	≤-21.20	57.75	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-36.5	≤-21.20	58.70	≤74	PASS
2DH5	Ant1	High	2480	Peak	2490.320	-34.87	≤-21.20	60.33	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-44.22	≤-41.20	50.98	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-44.92	≤-41.20	50.28	≤54	PASS
2DH5	Ant1	High	2480	AV	2483.520	-44.22	≤-41.20	50.98	≤54	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2390.000	-37.93	≤-21.20	57.27	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2310.000	-38.25	≤-21.20	56.95	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2318.585	-35.12	≤-21.20	60.08	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2483.500	-37.05	≤-21.20	58.15	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2500.000	-37.28	≤-21.20	57.92	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2483.600	-35.85	≤-21.20	59.35	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2390.000	-35.82	≤-21.20	59.38	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-36.5	≤-21.20	58.70	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2388.830	-34.61	≤-21.20	60.59	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-44.8	≤-41.20	50.40	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-45.18	≤-41.20	50.02	≤54	PASS
3DH5	Ant1	Low	2402	AV	2389.775	-44.63	≤-41.20	50.57	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-40.07	≤-21.20	55.13	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-42.45	≤-21.20	52.75	≤74	PASS
3DH5	Ant1	High	2480	Peak	2486.800	-35.15	≤-21.20	60.05	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-44.45	≤-41.20	50.75	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-45.28	≤-41.20	49.92	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.520	-44.44	≤-41.20	50.76	≤54	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2390.000	-38.24	≤-21.20	56.96	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2310.000	-37.71	≤-21.20	57.49	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2341.895	-35.4	≤-21.20	59.80	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2483.500	-41.77	≤-21.20	53.43	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2500.000	-40.57	≤-21.20	54.63	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2489.040	-36.02	≤-21.20	59.18	≤74	PASS

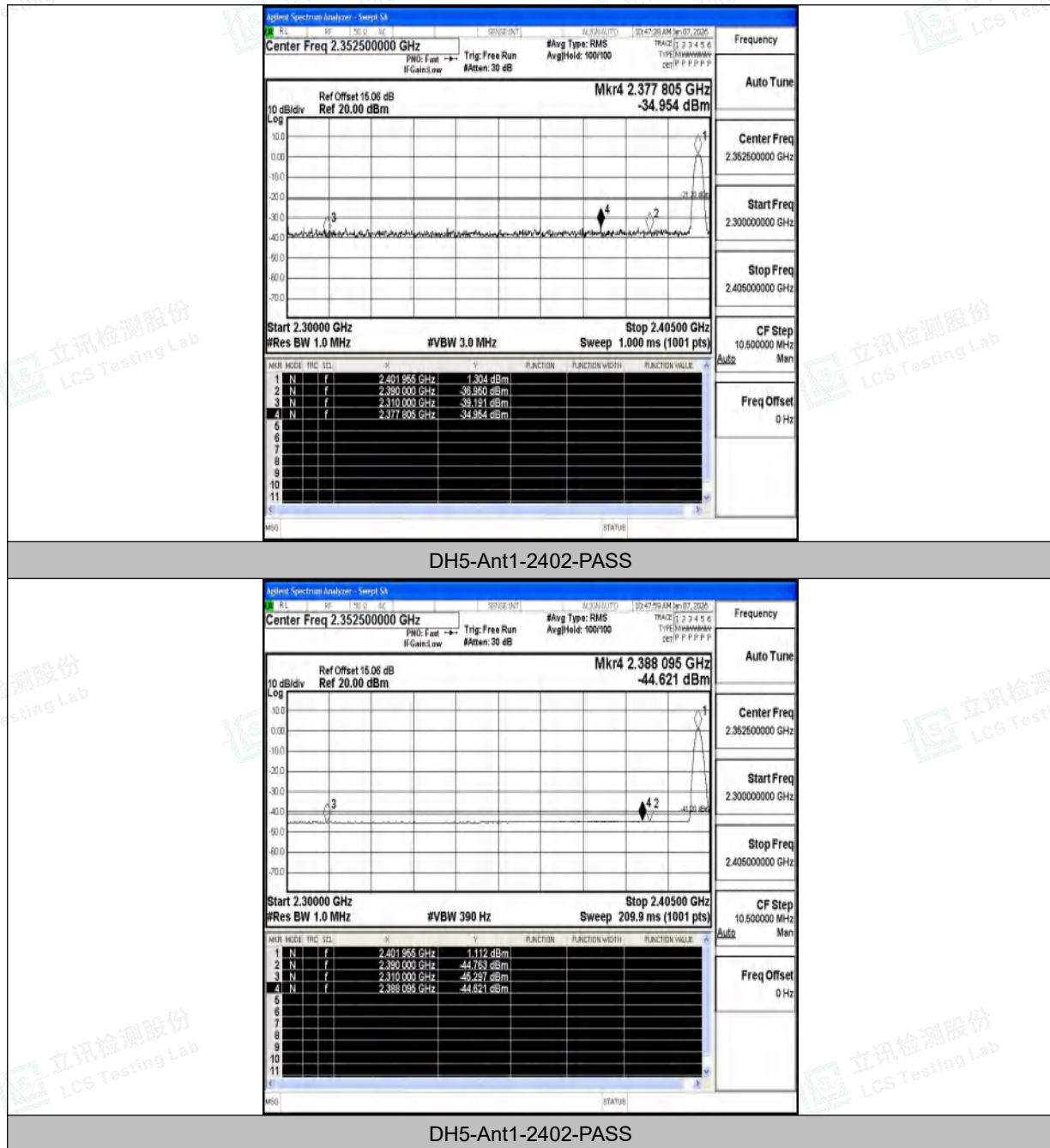
Note:

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.





Test Graphs

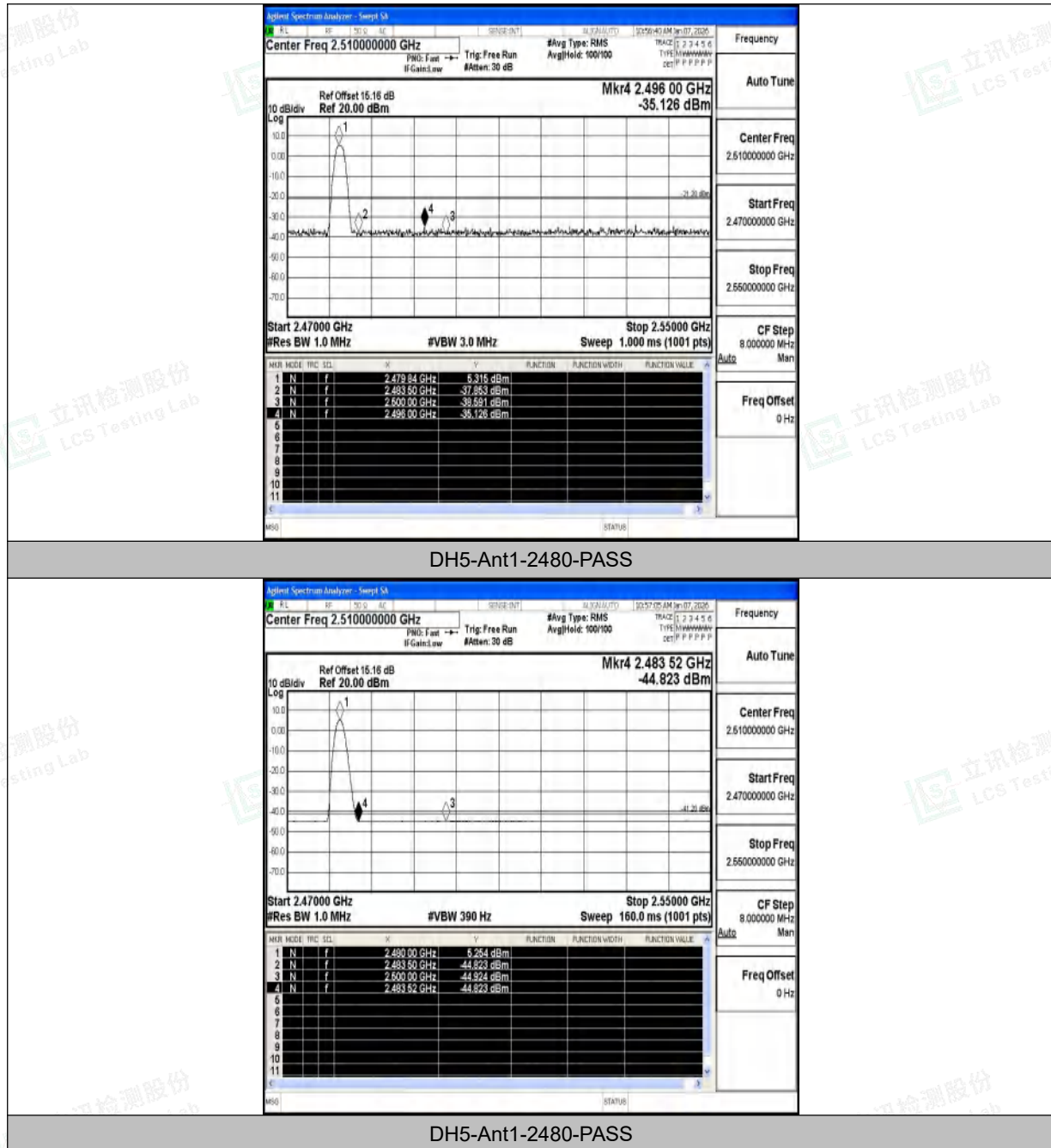


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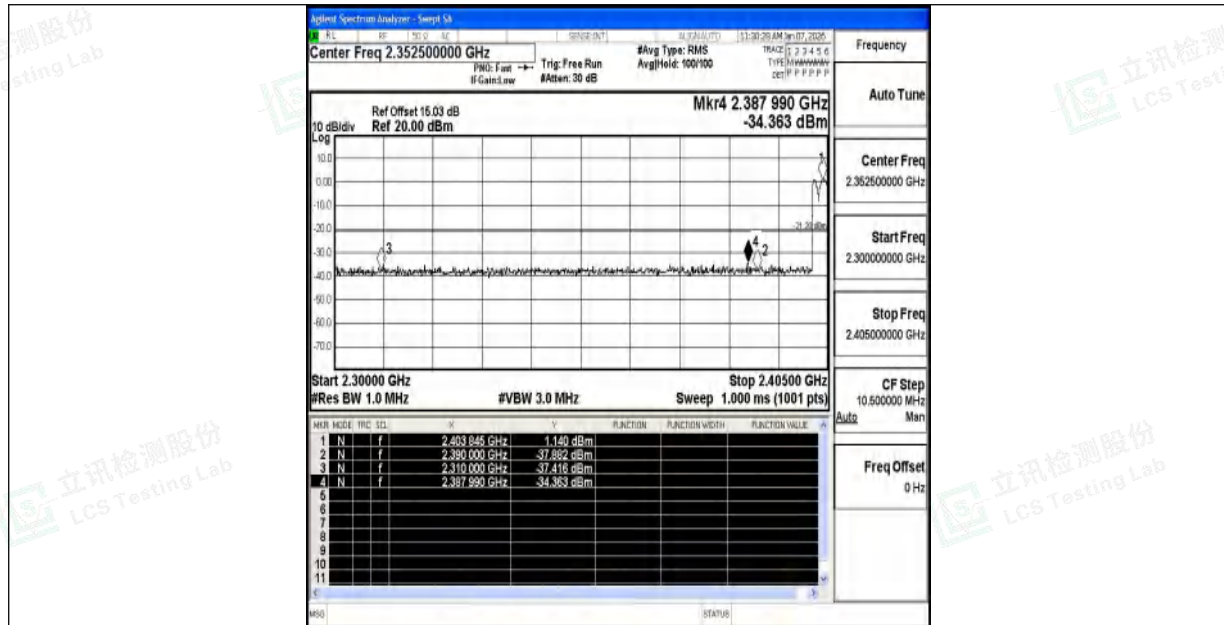


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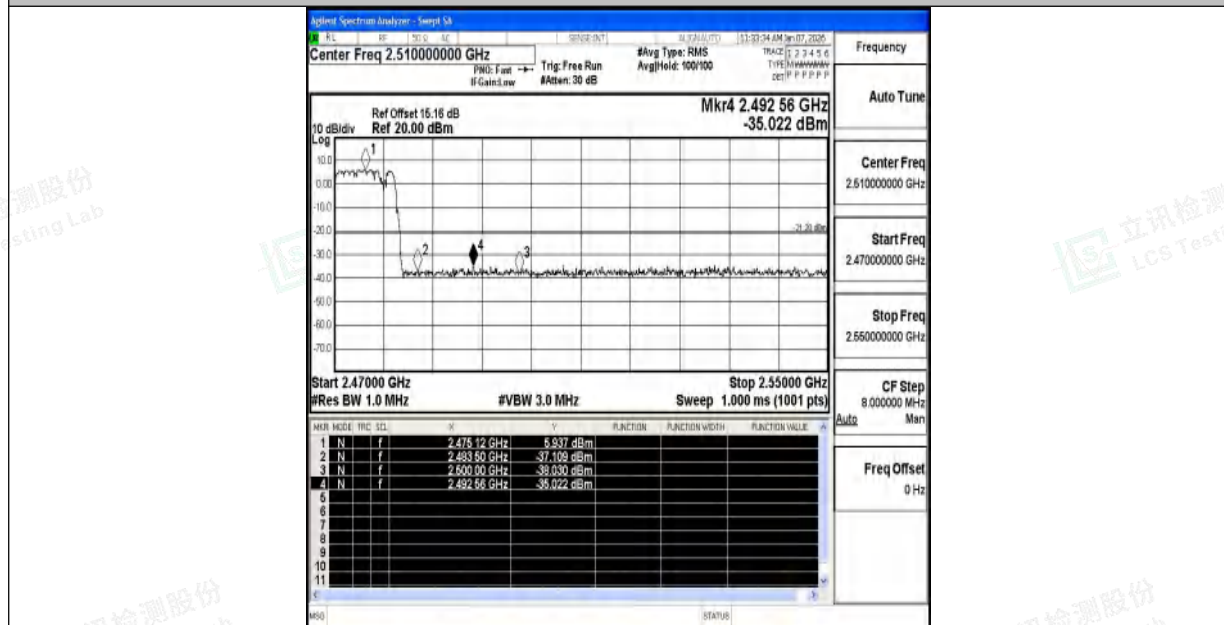
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DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS

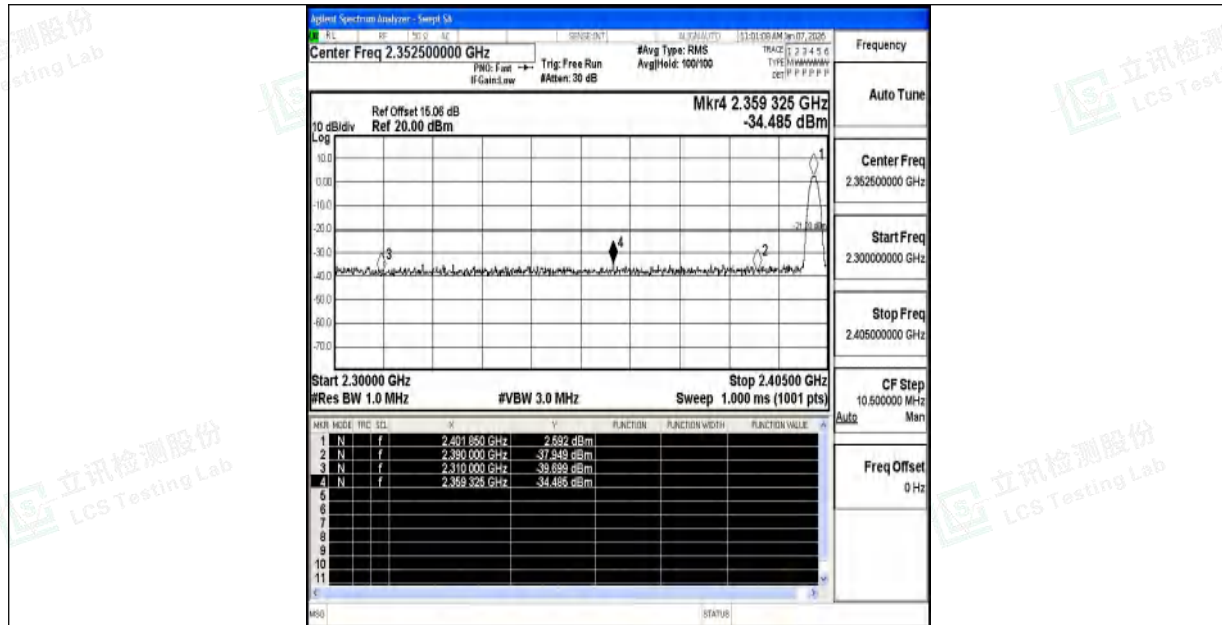


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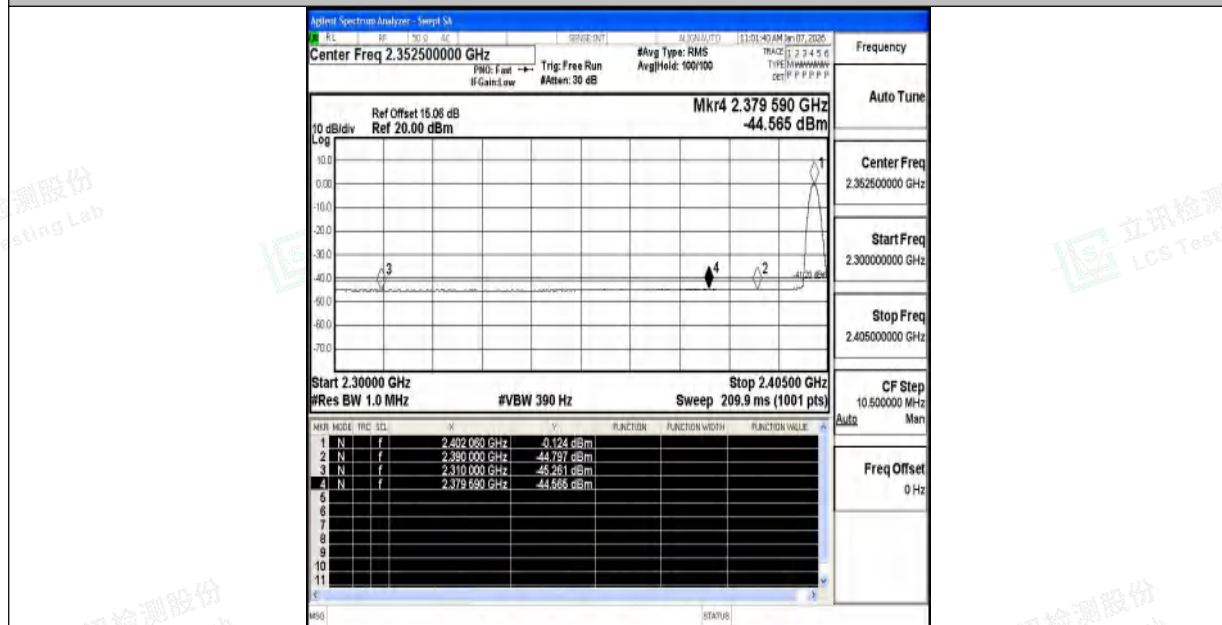
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2DH5-Ant1-2402-PASS



2DH5-Ant1-2402-PASS

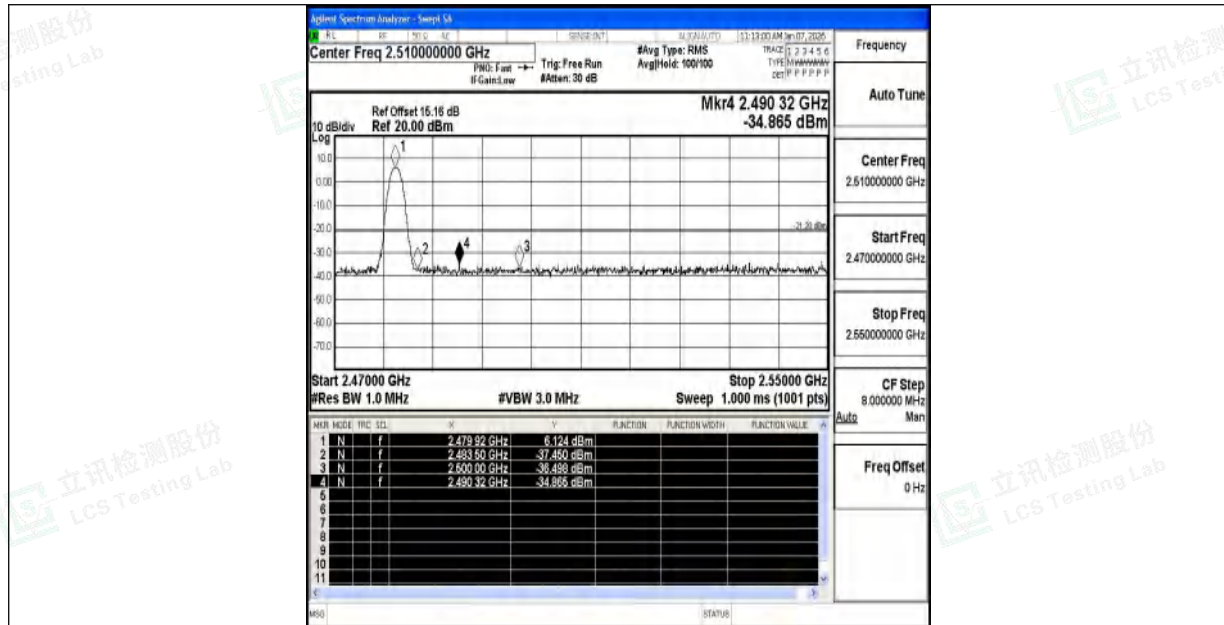


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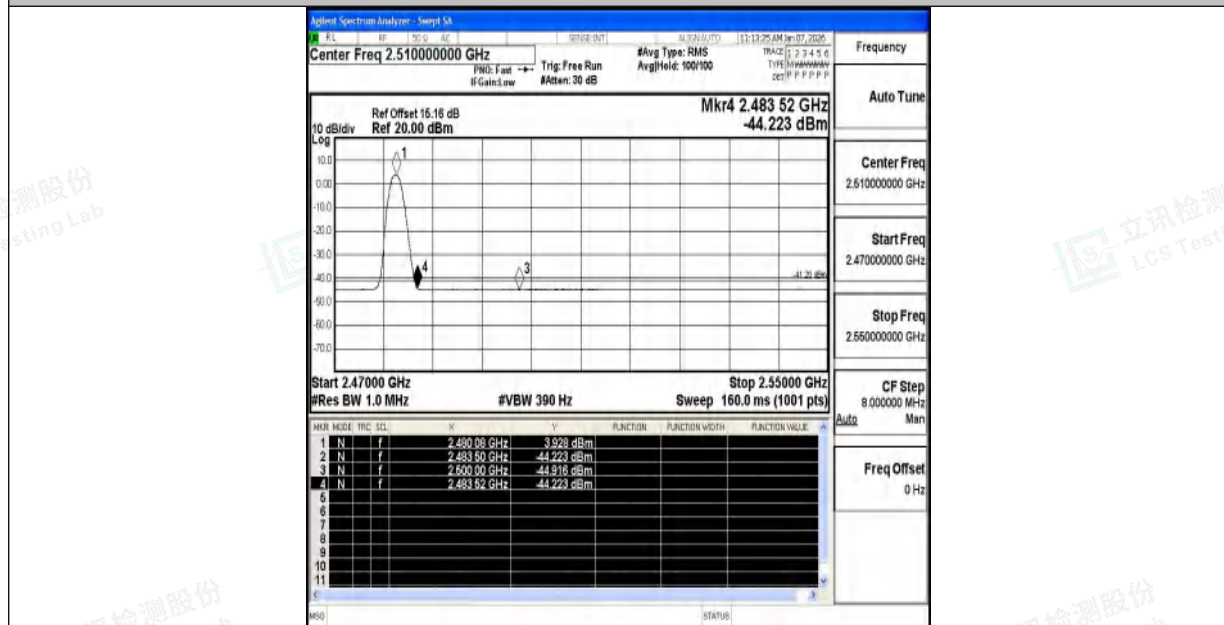
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2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS

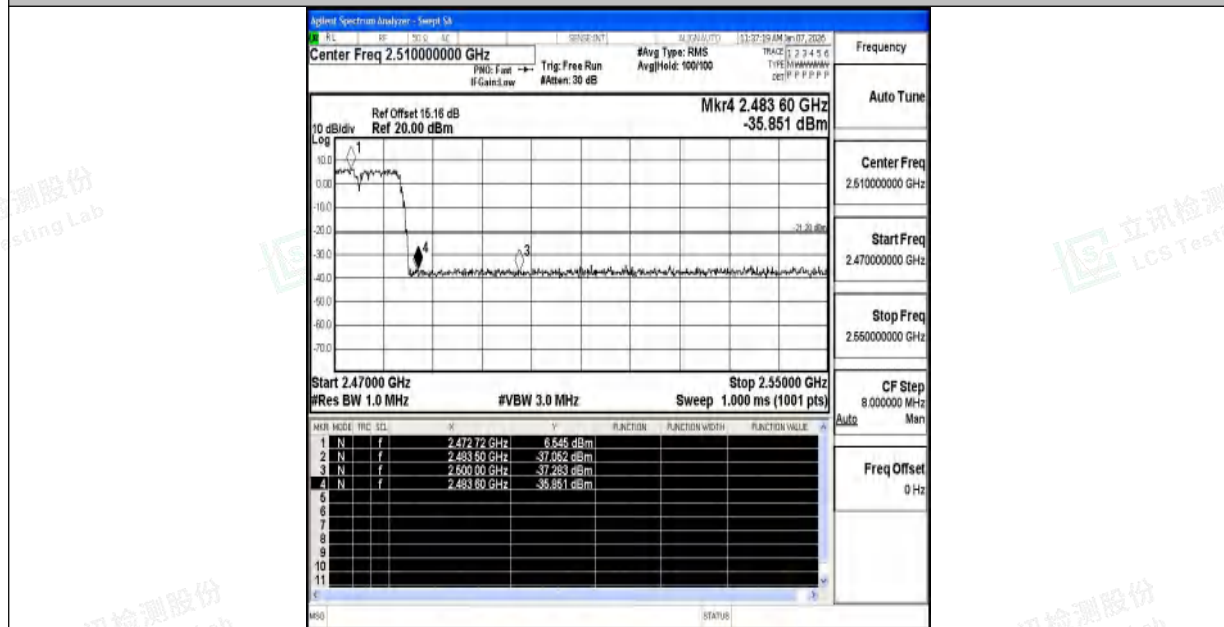
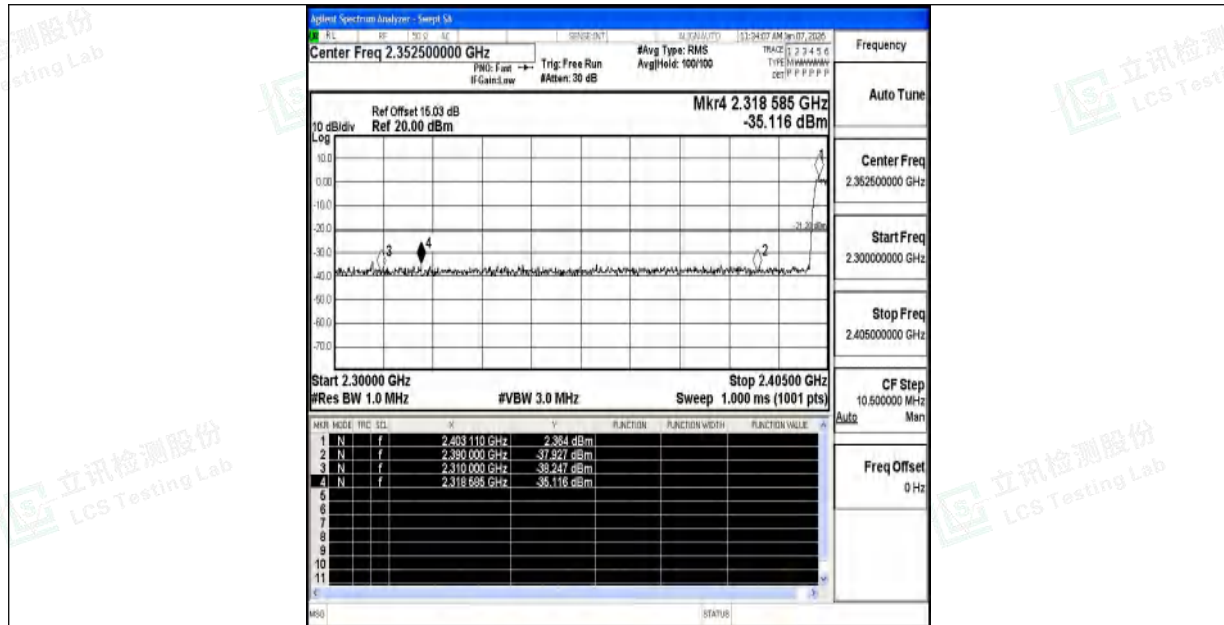


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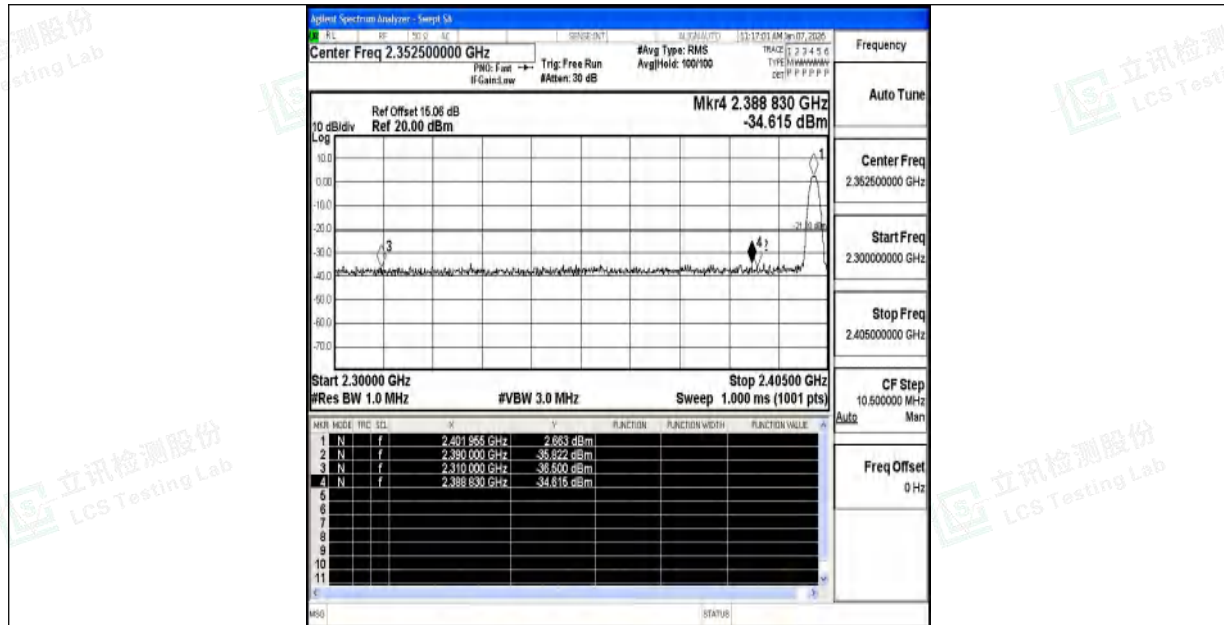


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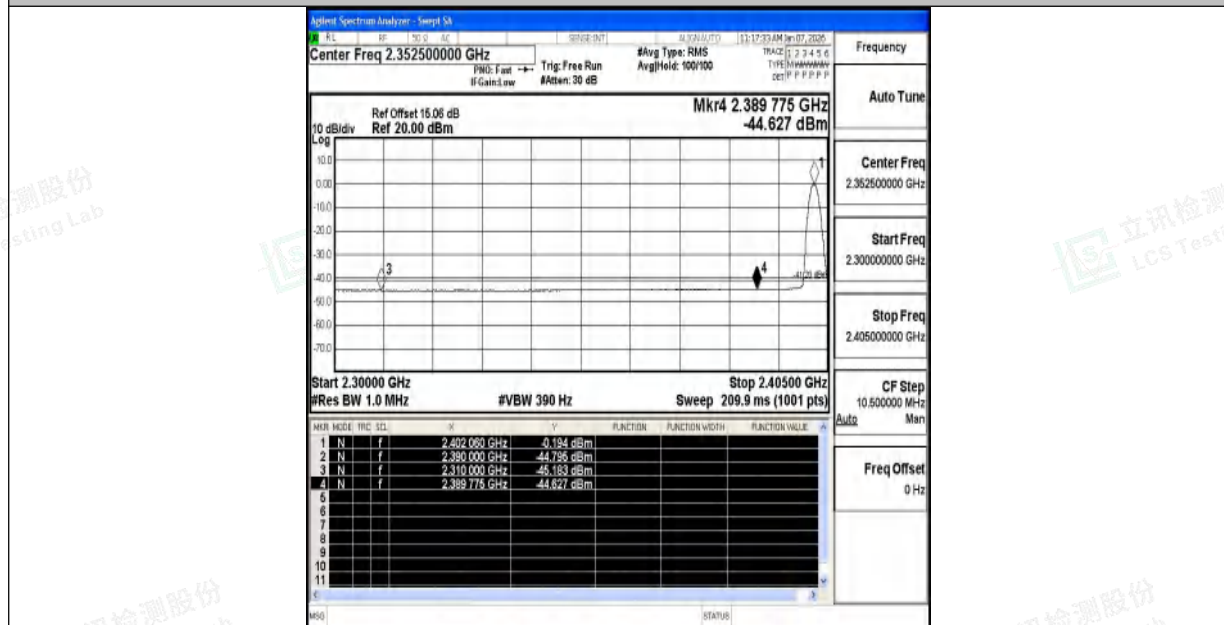
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3DH5-Ant1-2402-PASS



3DH5-Ant1-2402-PASS

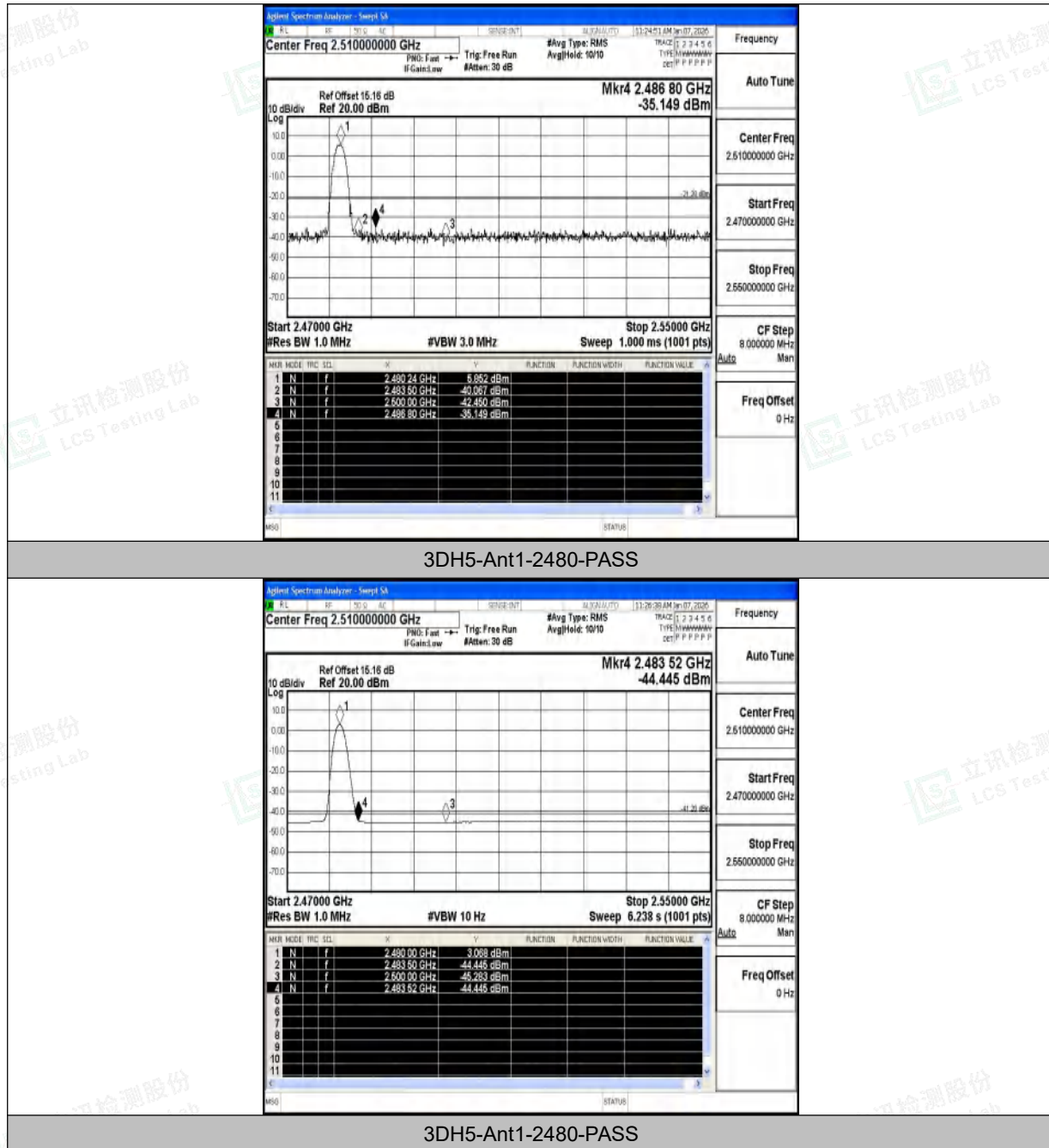


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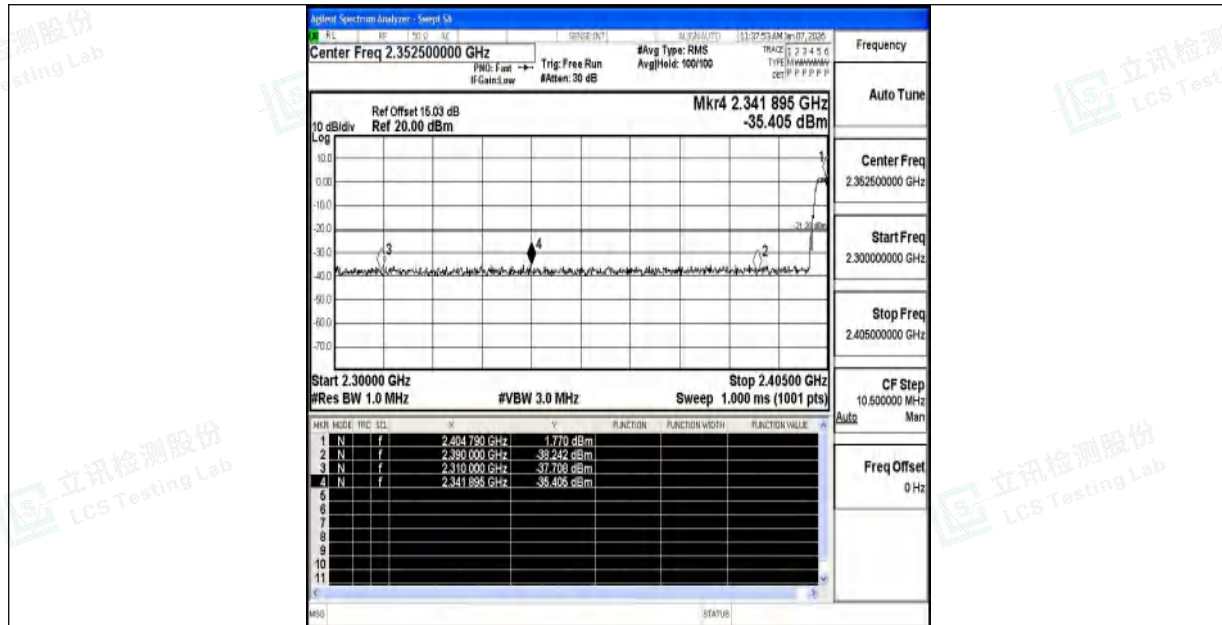


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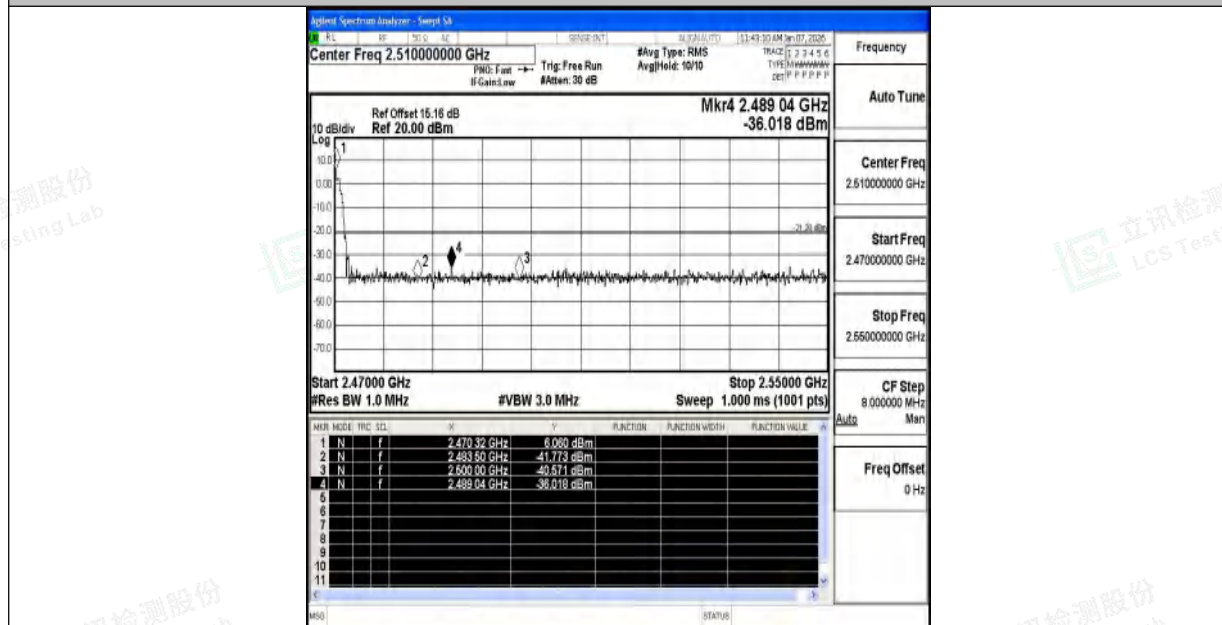
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3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



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