



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP270V2

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





A.1 20dB Emission Bandwidth

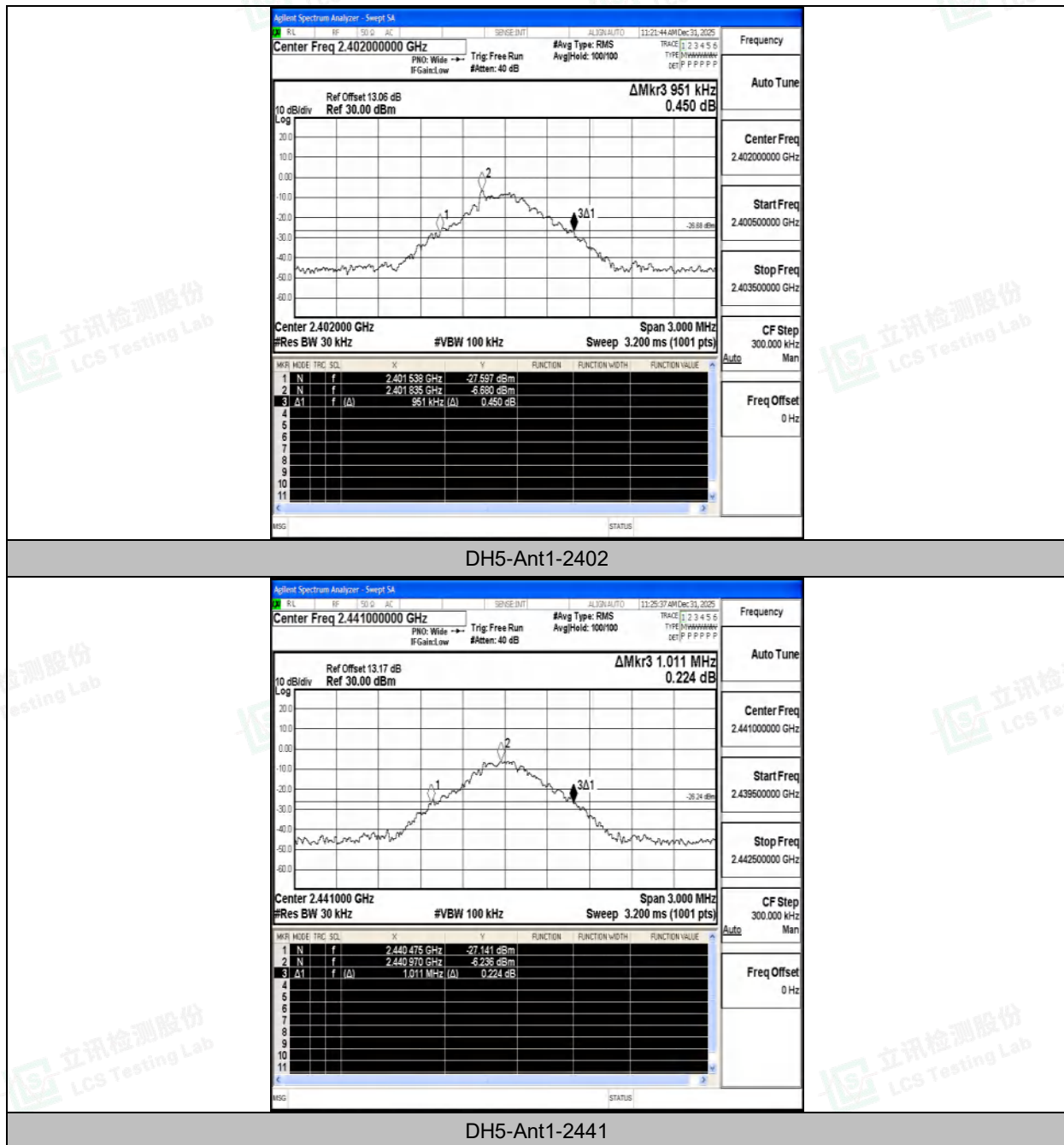
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.538	2402.489	---	---
DH5	Ant1	2441	1.011	2440.475	2441.486	---	---
DH5	Ant1	2480	0.990	2479.484	2480.474	---	---
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
2DH5	Ant1	2441	1.287	2440.361	2441.648	---	---
2DH5	Ant1	2480	1.326	2479.334	2480.660	---	---
3DH5	Ant1	2402	1.302	2401.352	2402.654	---	---
3DH5	Ant1	2441	1.305	2440.346	2441.651	---	---
3DH5	Ant1	2480	1.296	2479.352	2480.648	---	---





Test Graphs

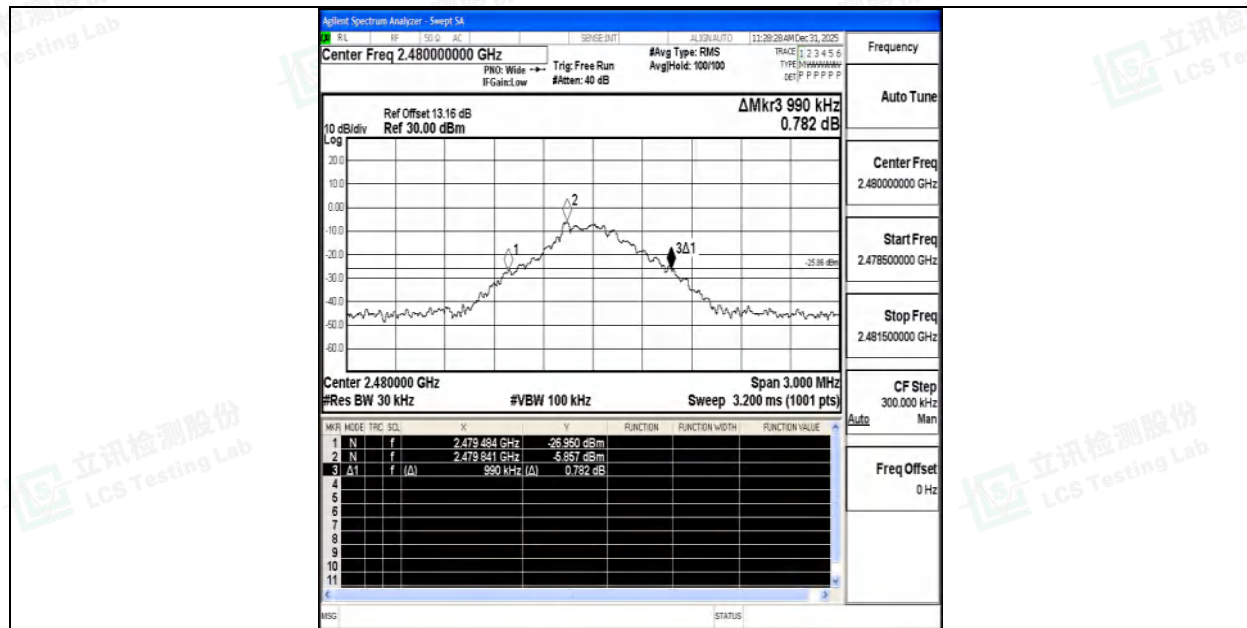


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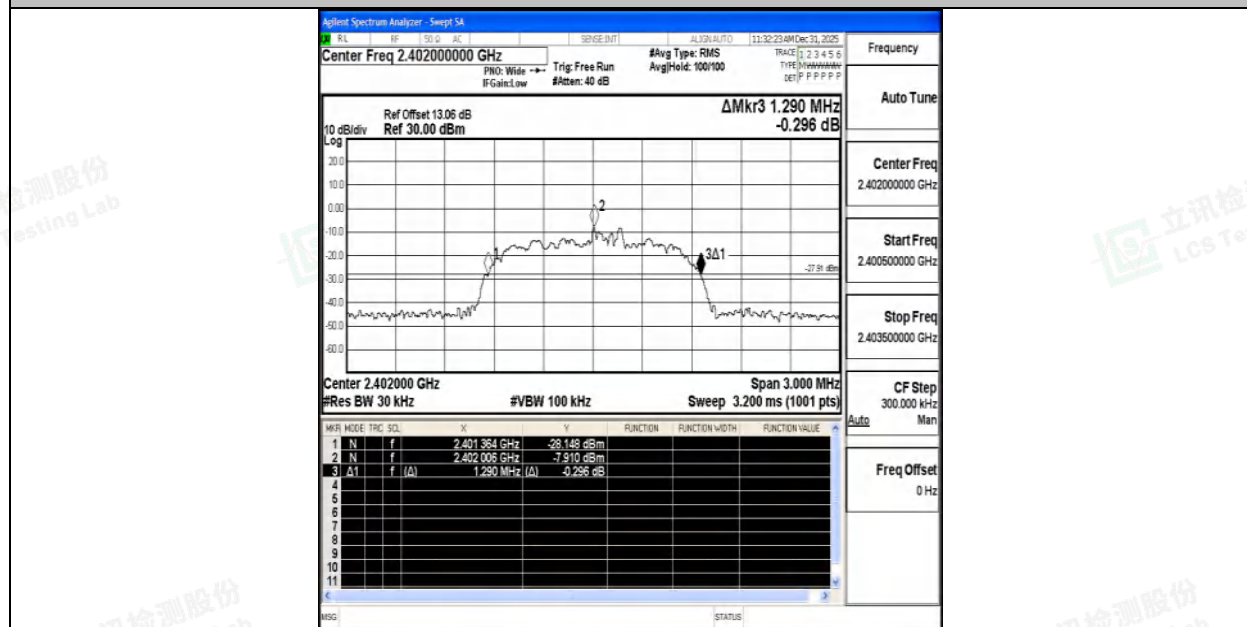
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5-Ant1-2480



2DH5-Ant1-2402

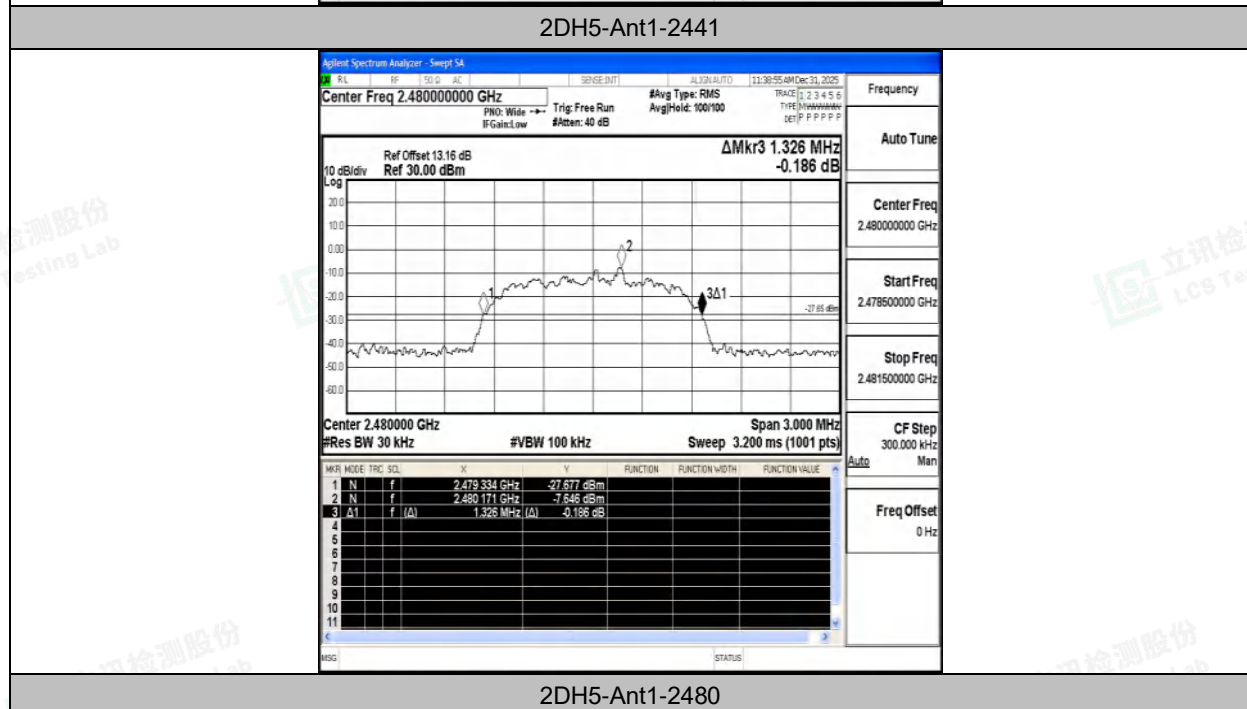
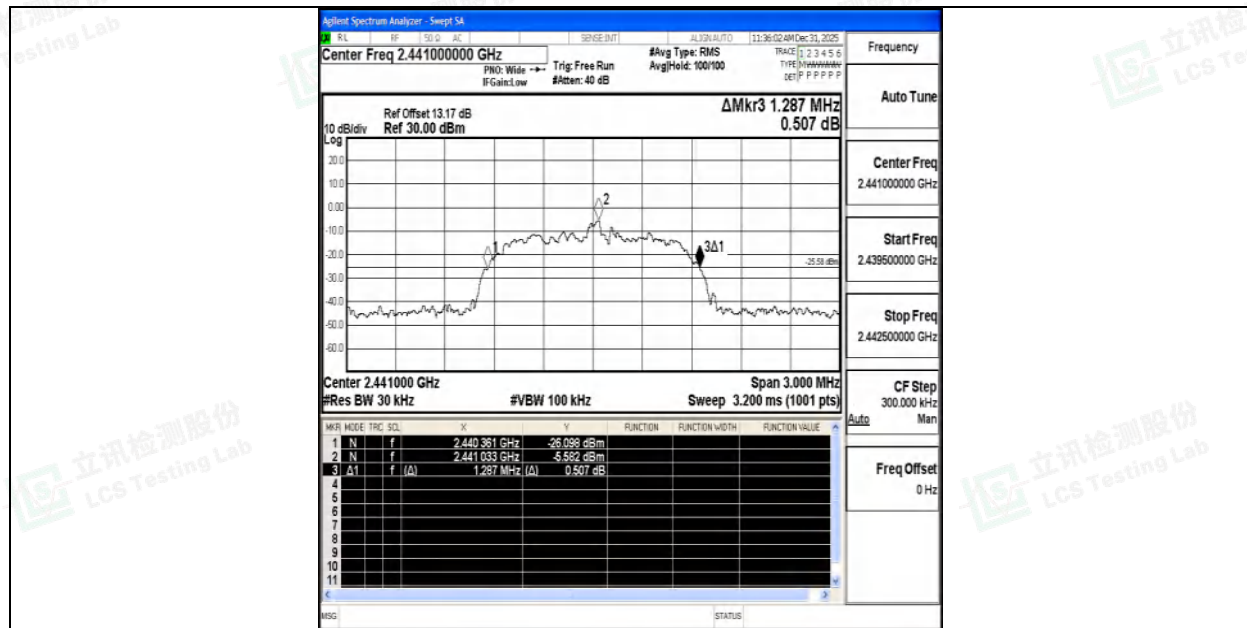


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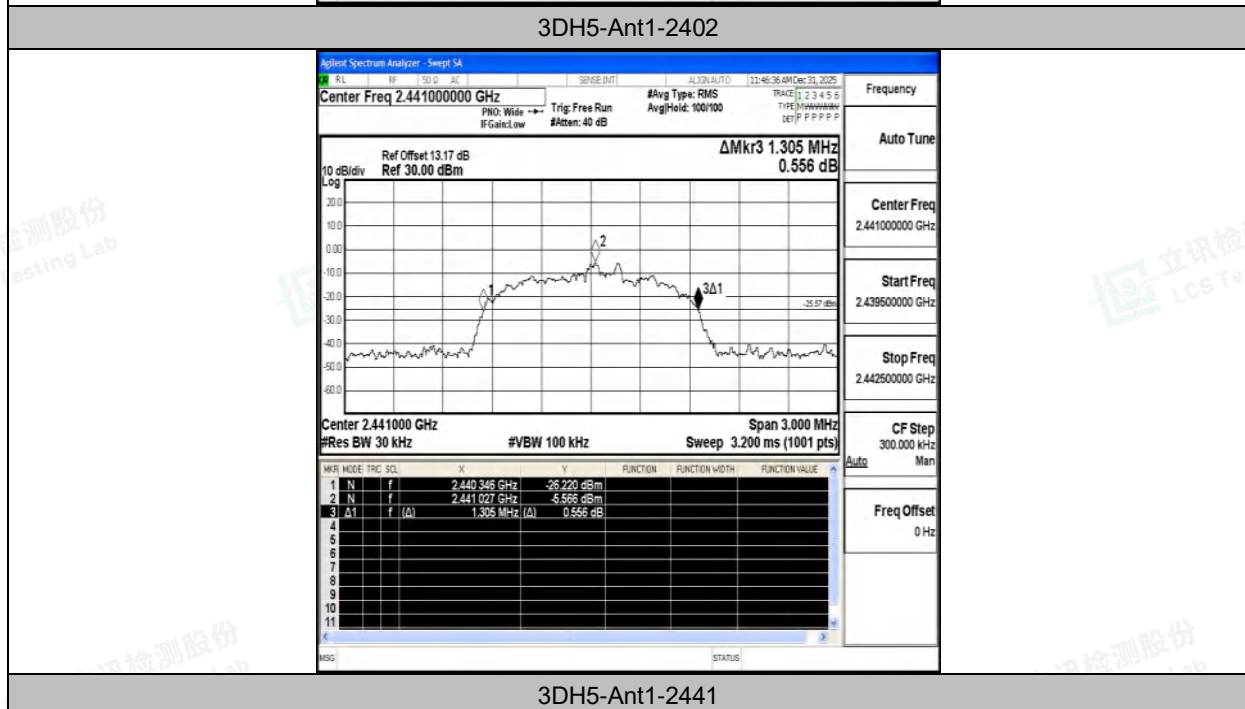
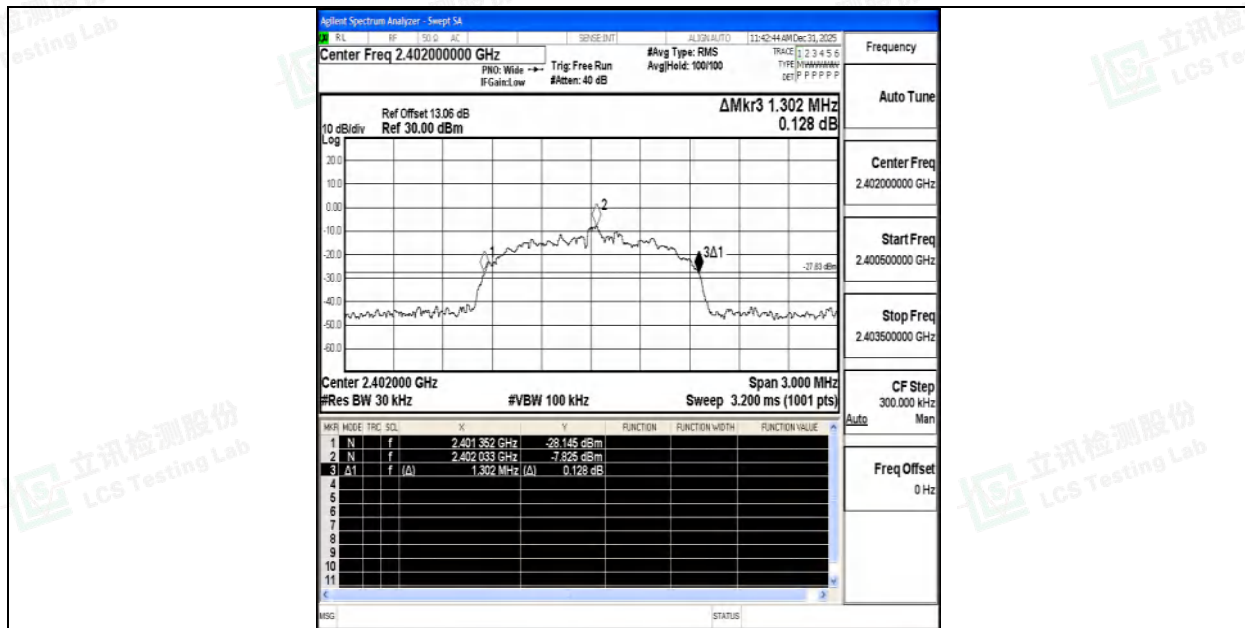


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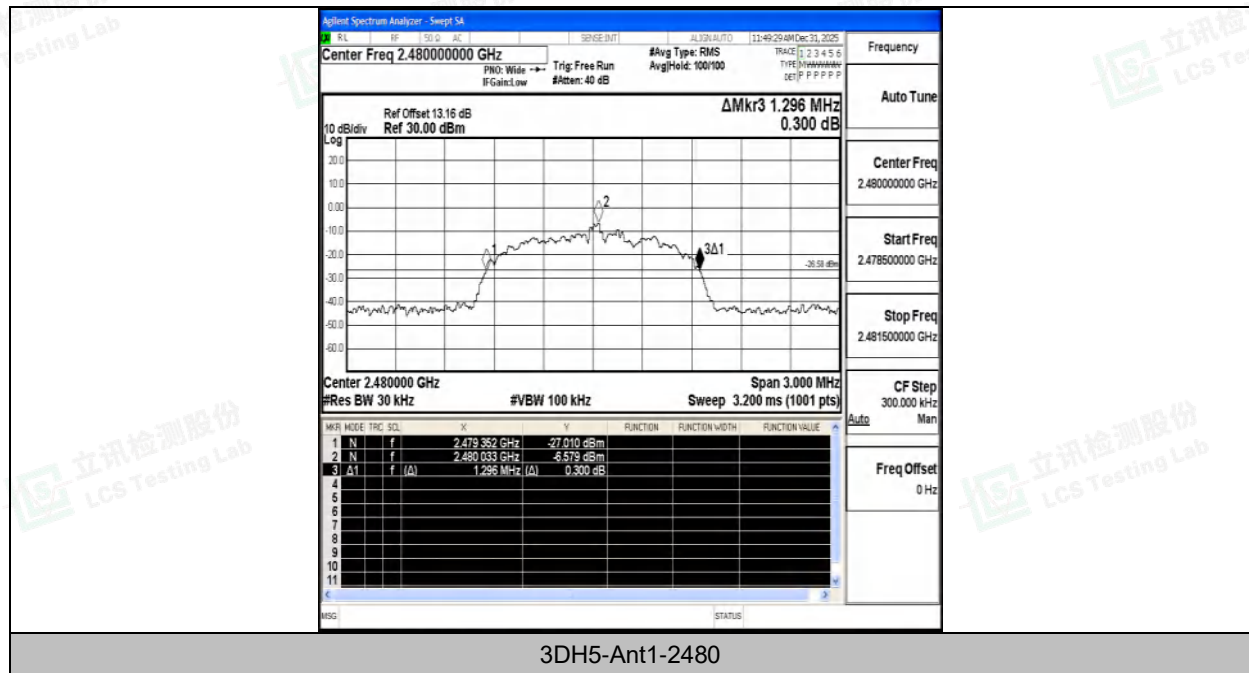


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A.2 Maximum peak conducted output power

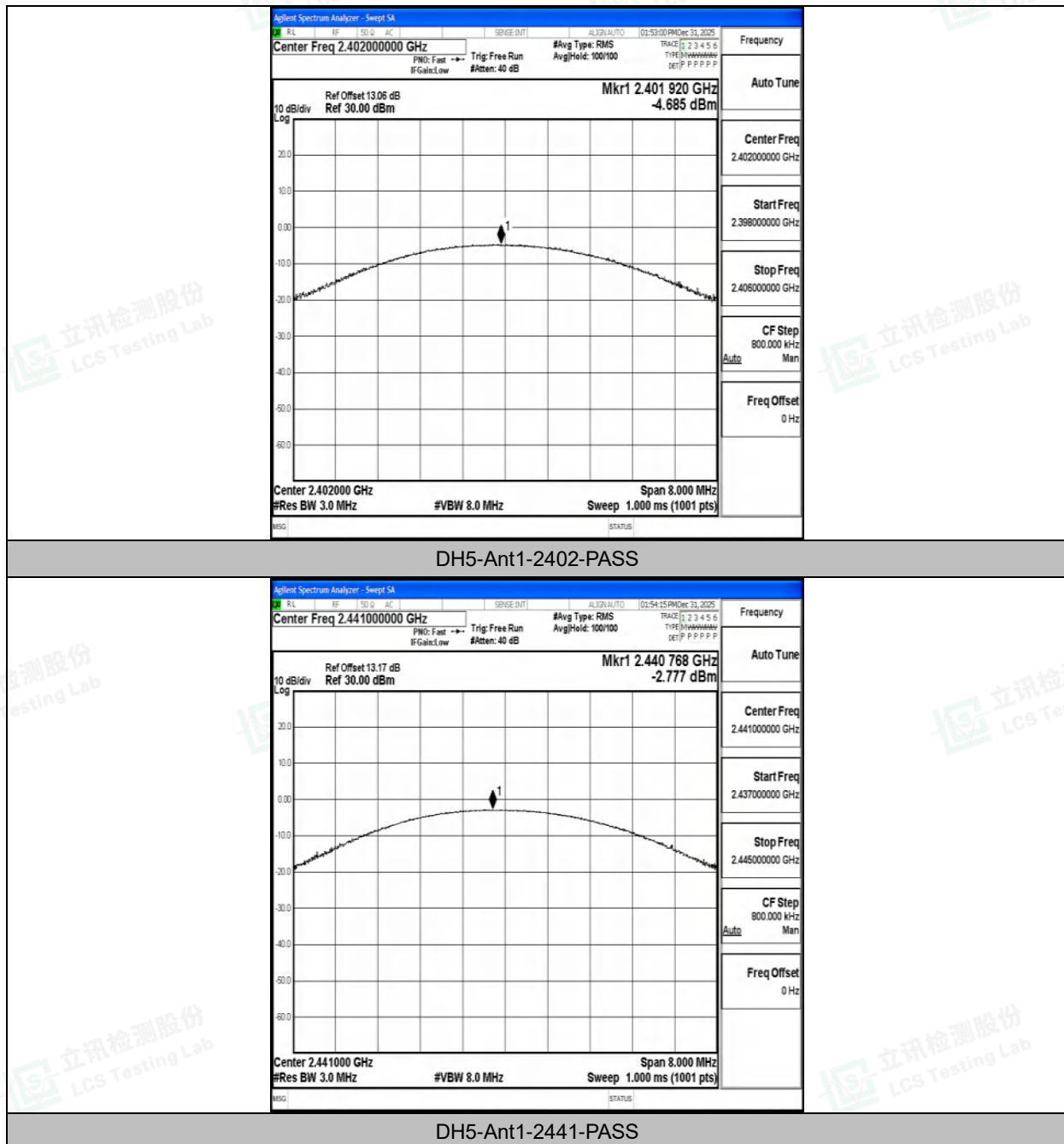
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-4.69	≤20.97	PASS
DH5	Ant1	2441	-2.78	≤20.97	PASS
DH5	Ant1	2480	-3.61	≤20.97	PASS
2DH5	Ant1	2402	-3.35	≤20.97	PASS
2DH5	Ant1	2441	-1.52	≤20.97	PASS
2DH5	Ant1	2480	-2.79	≤20.97	PASS
3DH5	Ant1	2402	-3.09	≤20.97	PASS
3DH5	Ant1	2441	-1.33	≤20.97	PASS
3DH5	Ant1	2480	-2.68	≤20.97	PASS





Test Graphs

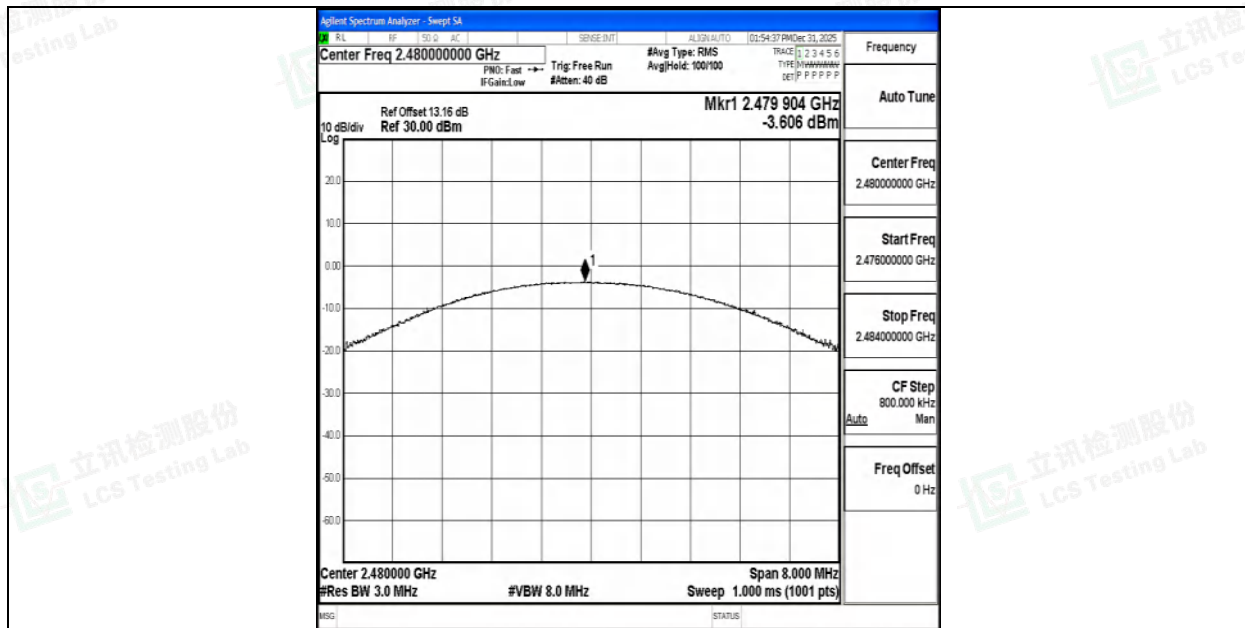


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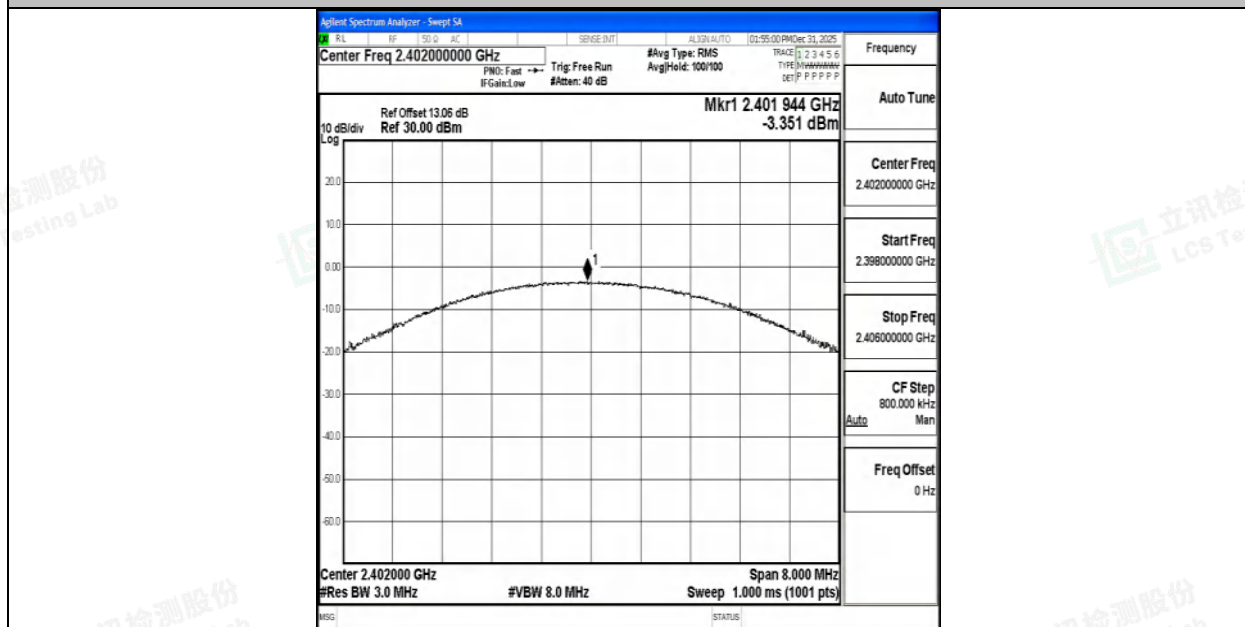
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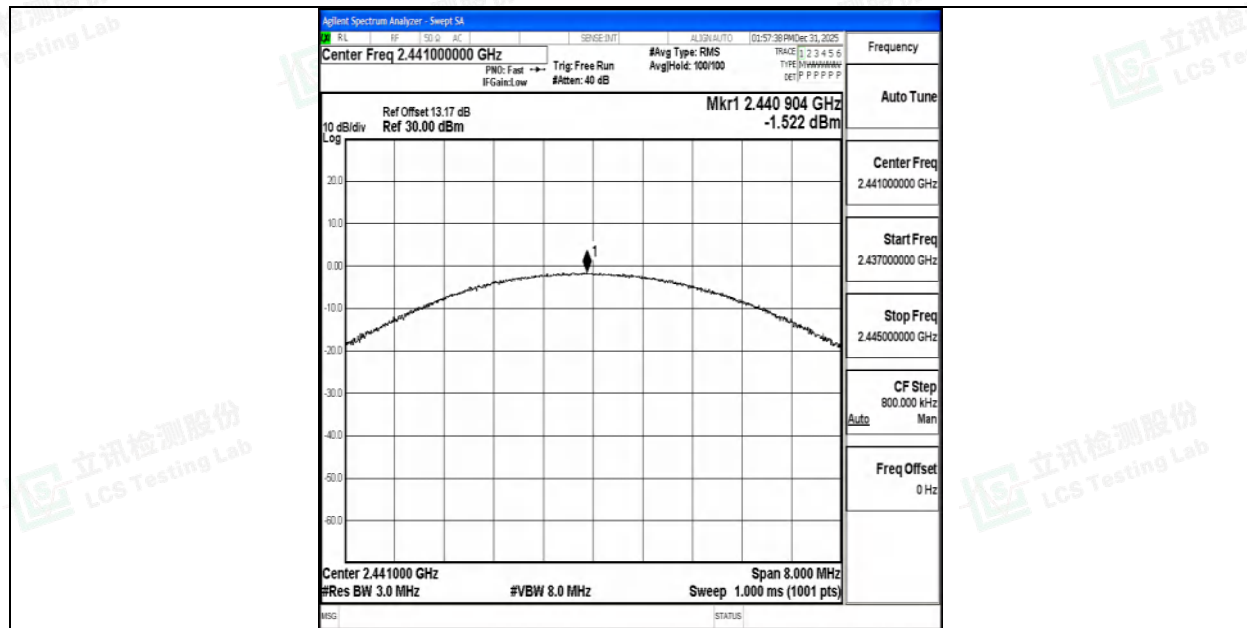


DH5-Ant1-2480-PASS

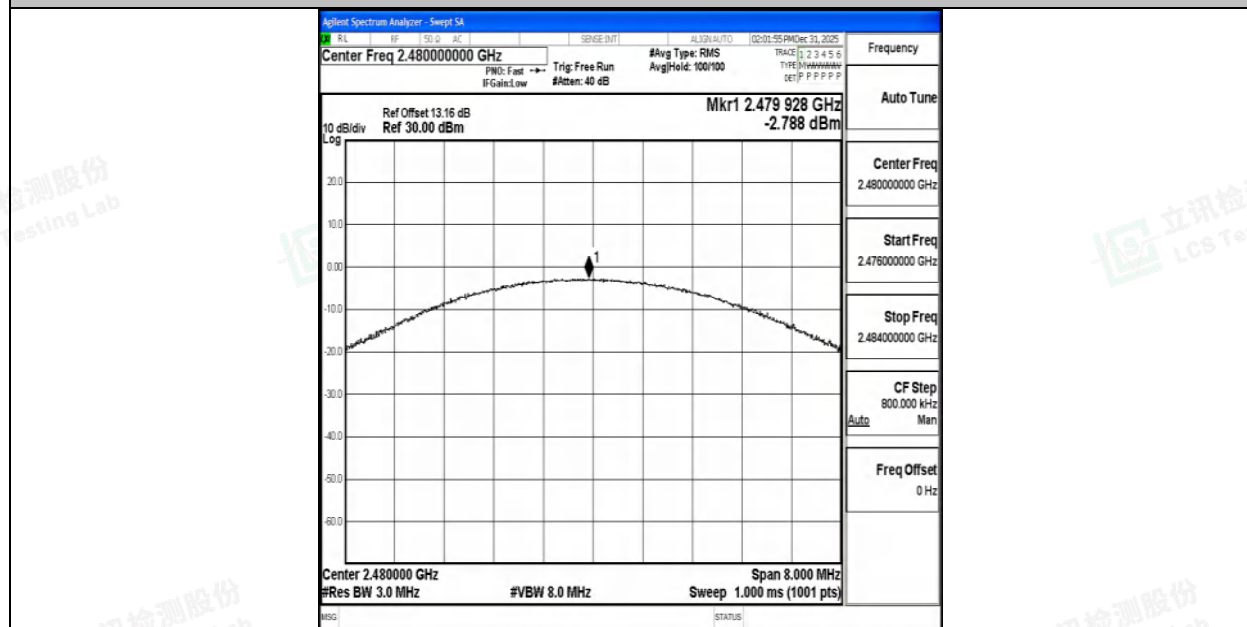


2DH5-Ant1-2402-PASS



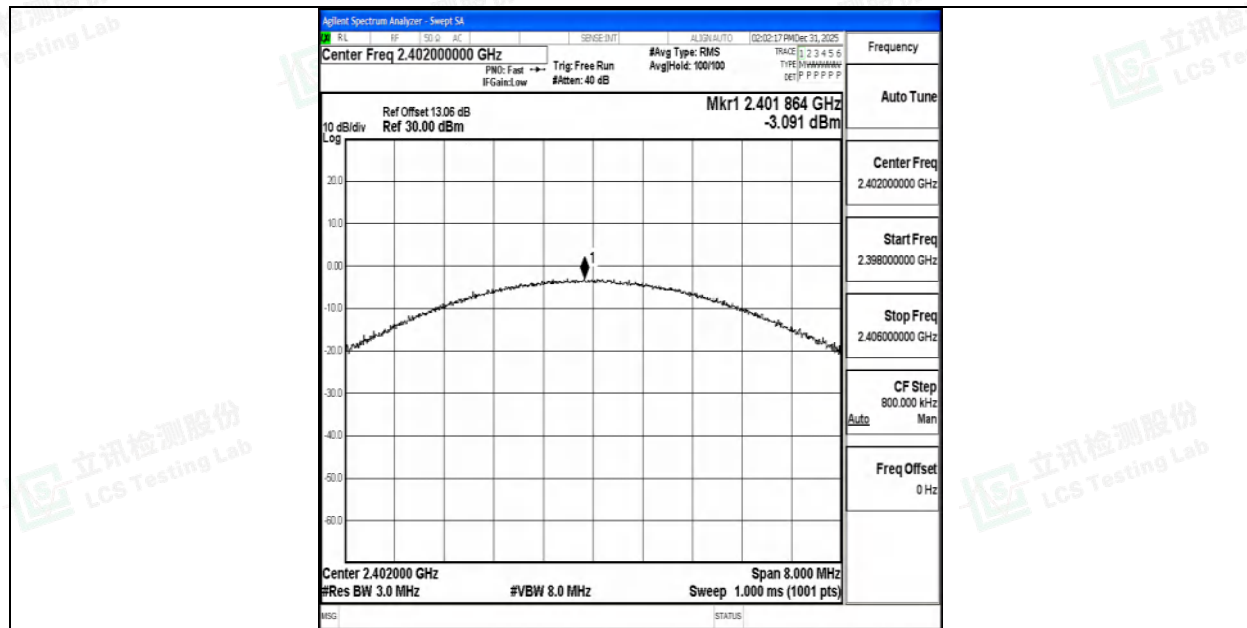


2DH5-Ant1-2441-PASS

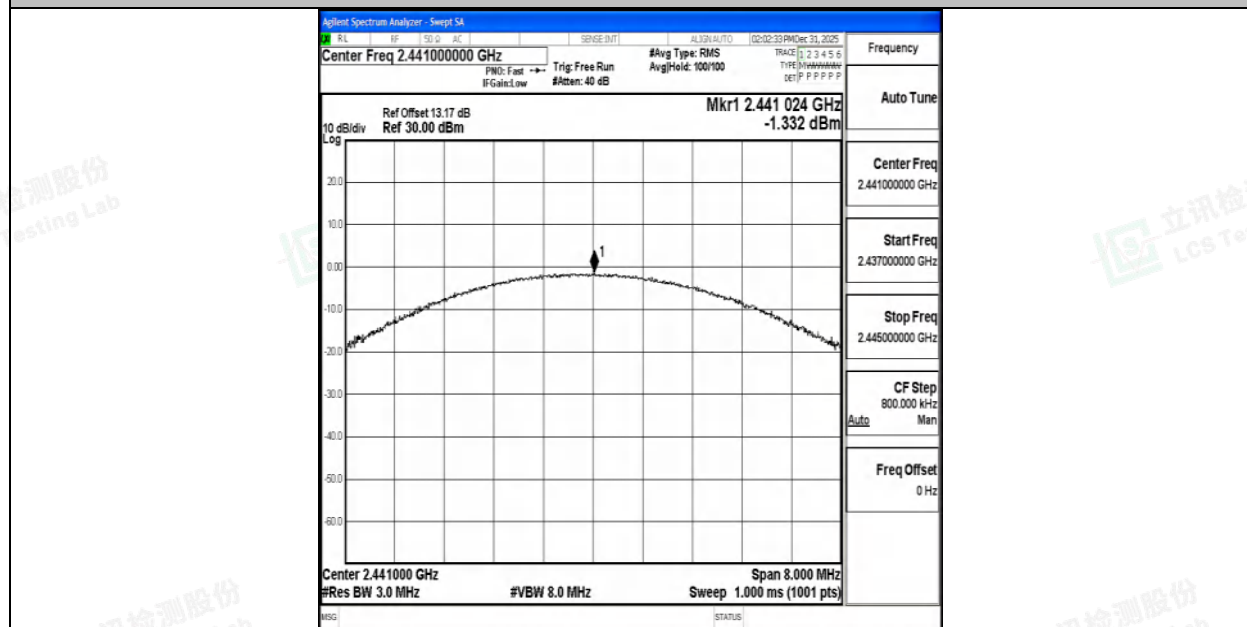


2DH5-Ant1-2480-PASS





3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS

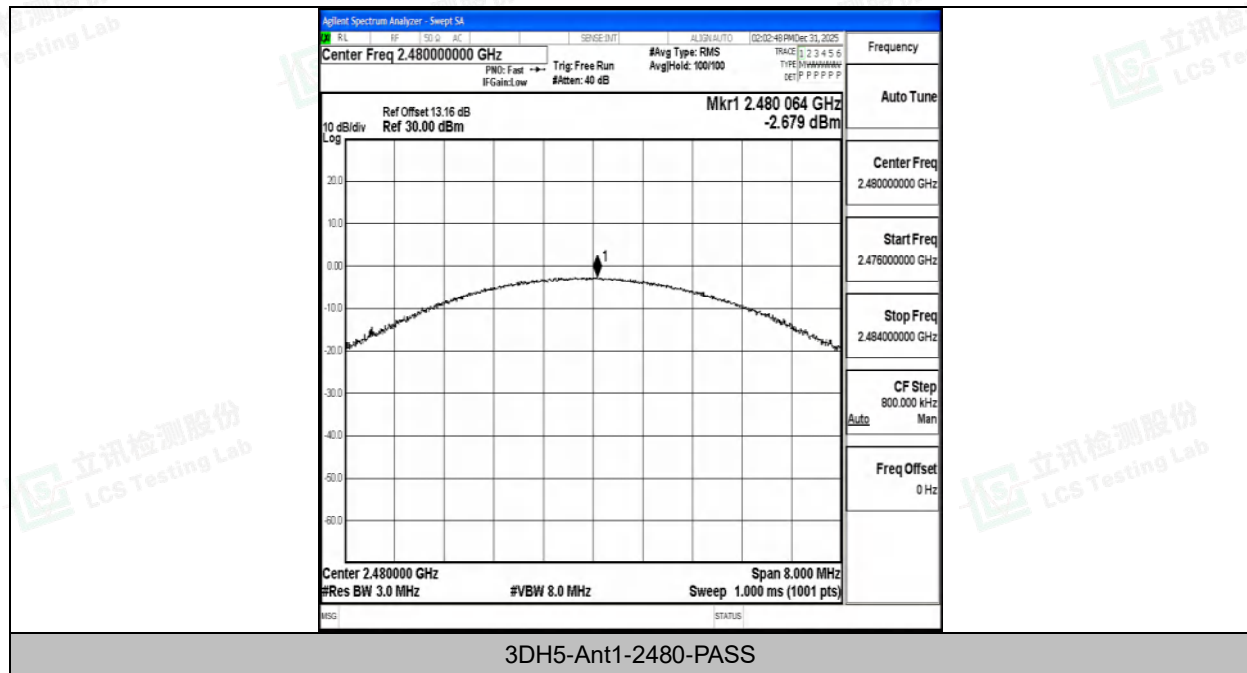


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A.3 Carrier frequency separation

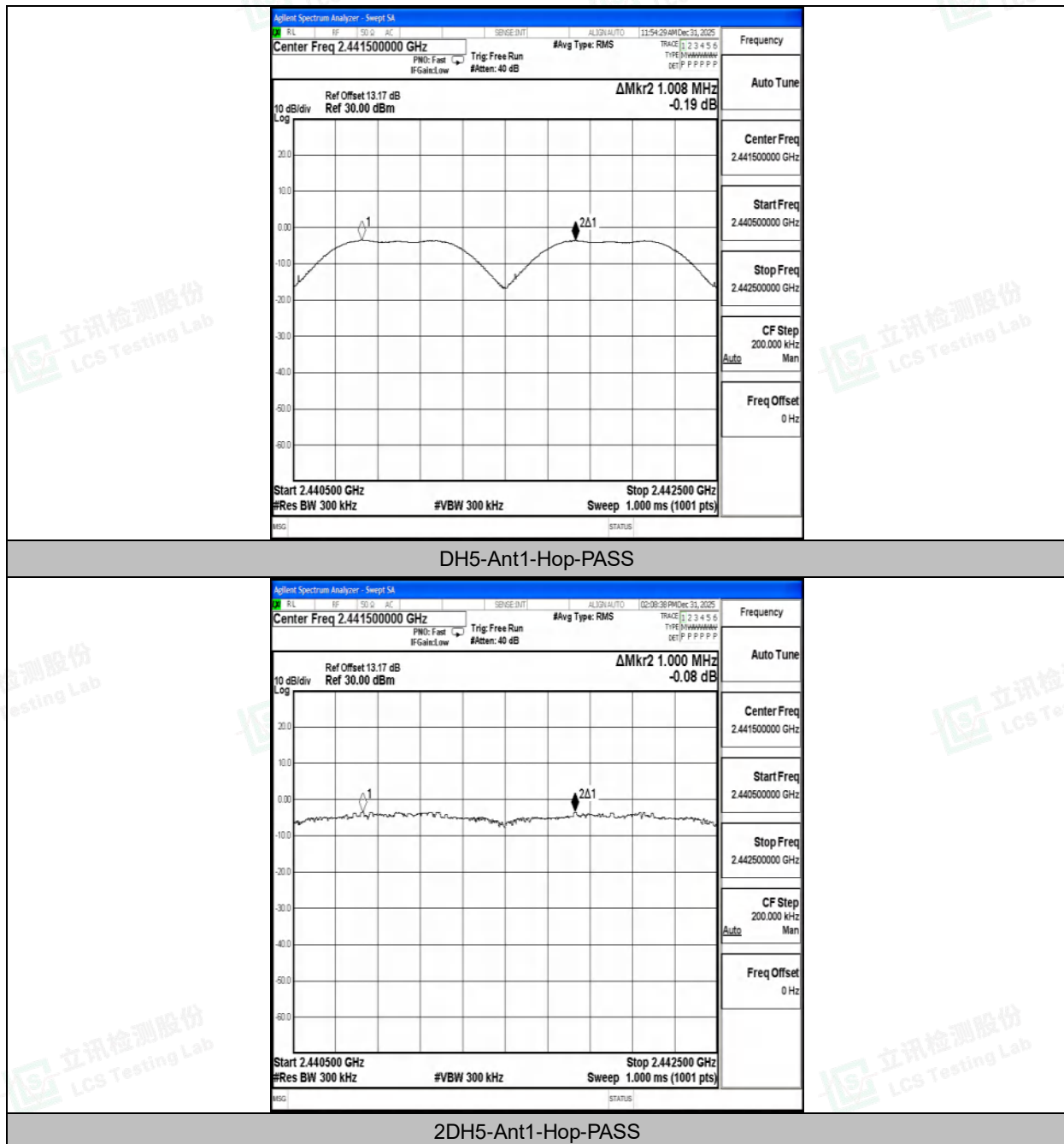
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.674	PASS
2DH5	Ant1	Hop	1	≥ 0.884	PASS
3DH5	Ant1	Hop	0.986	≥ 0.870	PASS





Test Graphs

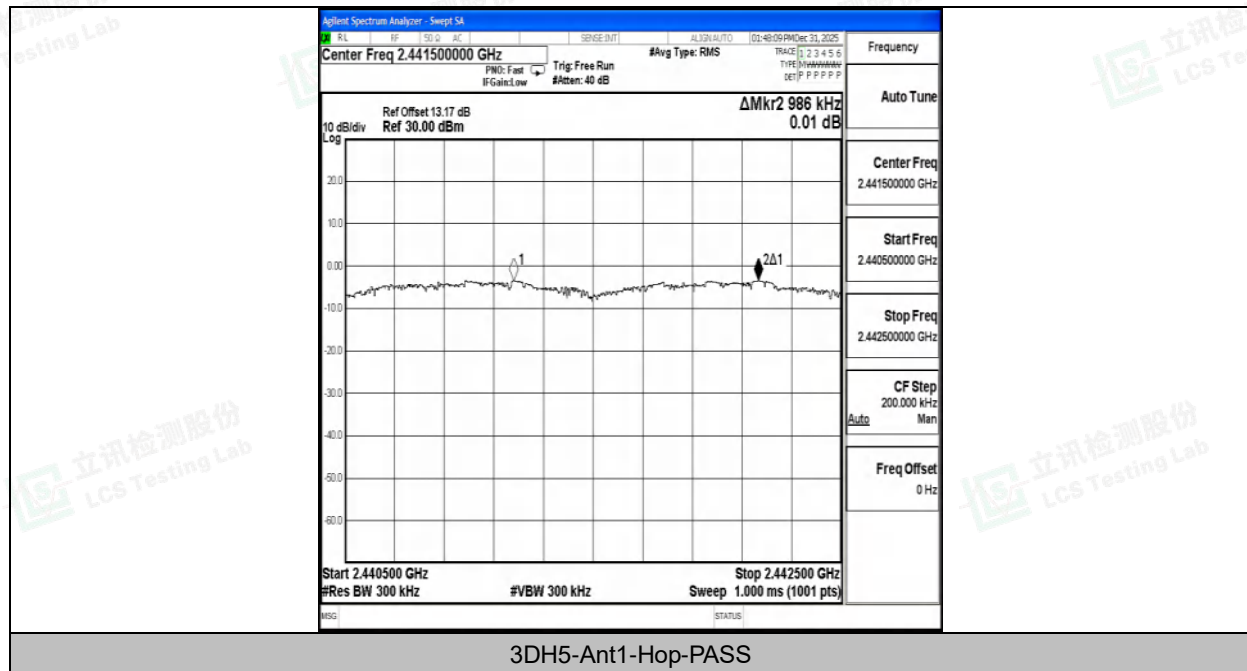


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A.4 Time of occupancy

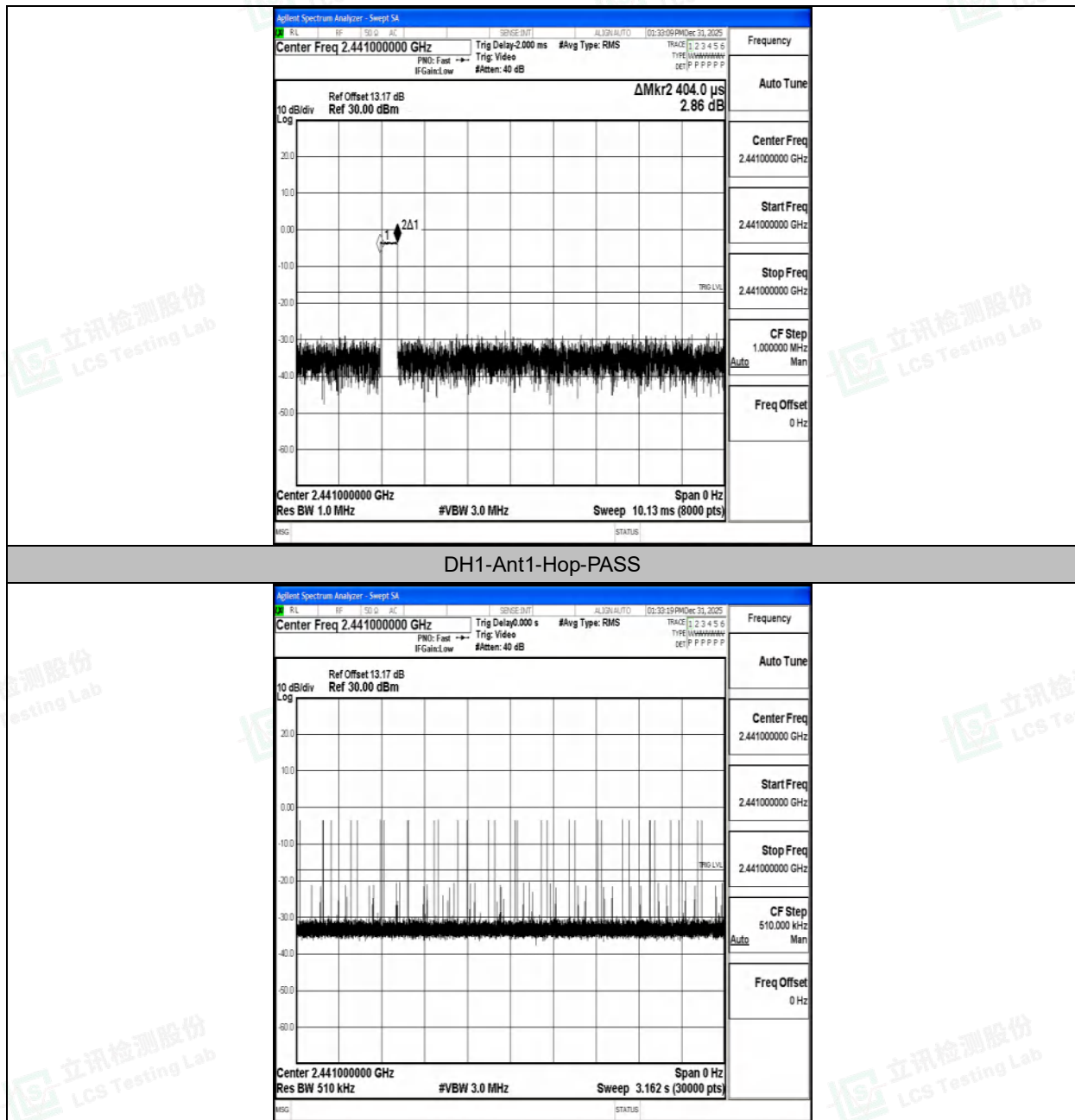
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.404	330	0.133	≤0.4	PASS
DH3	Ant1	Hop	1.659	160	0.265	≤0.4	PASS
DH5	Ant1	Hop	2.908	90	0.262	≤0.4	PASS
2DH1	Ant1	Hop	0.396	320	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.648	170	0.28	≤0.4	PASS
2DH5	Ant1	Hop	2.897	120	0.348	≤0.4	PASS
3DH1	Ant1	Hop	0.394	330	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.645	140	0.23	≤0.4	PASS
3DH5	Ant1	Hop	1.984	180	0.357	≤0.4	PASS





Test Graphs

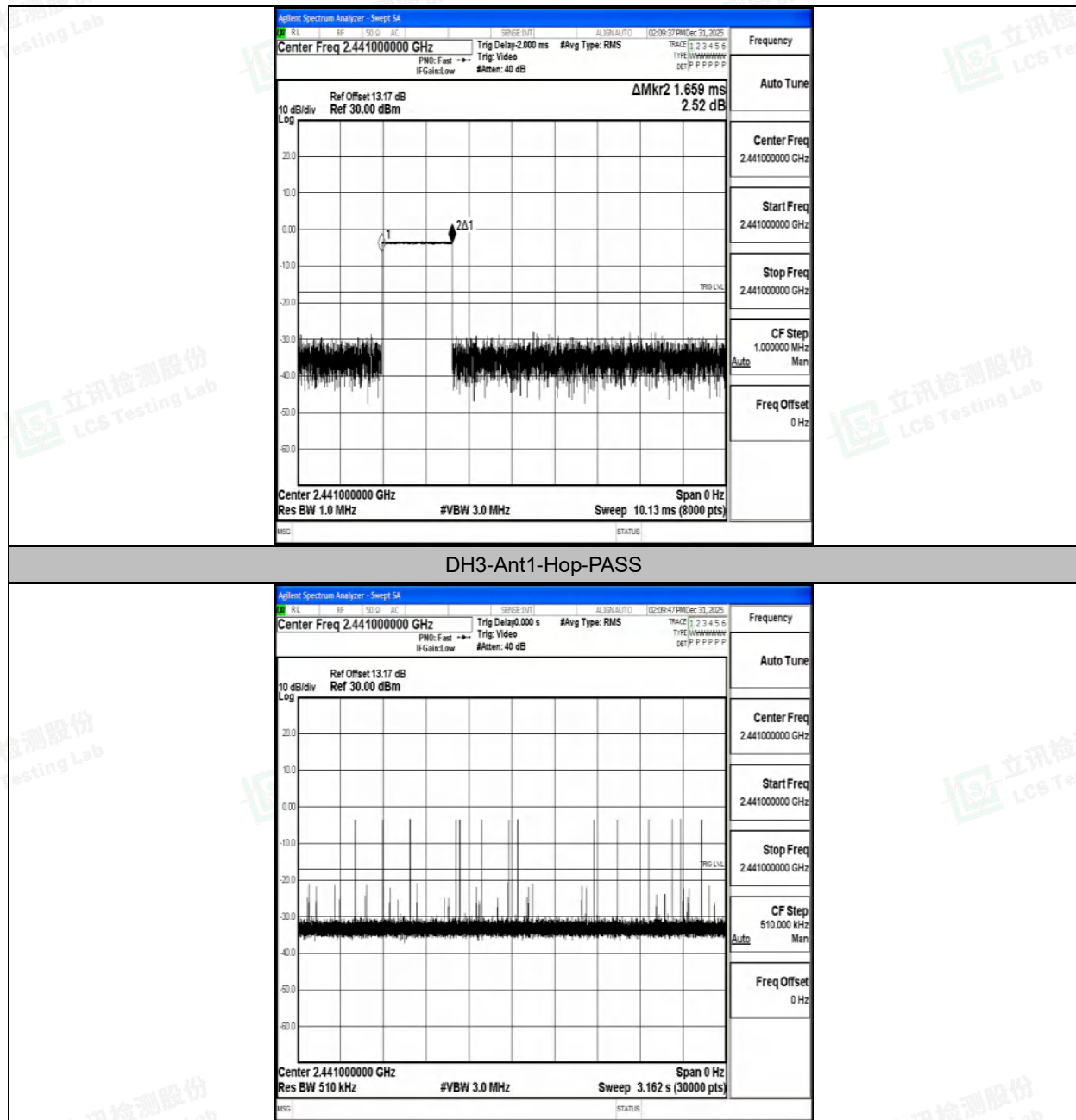


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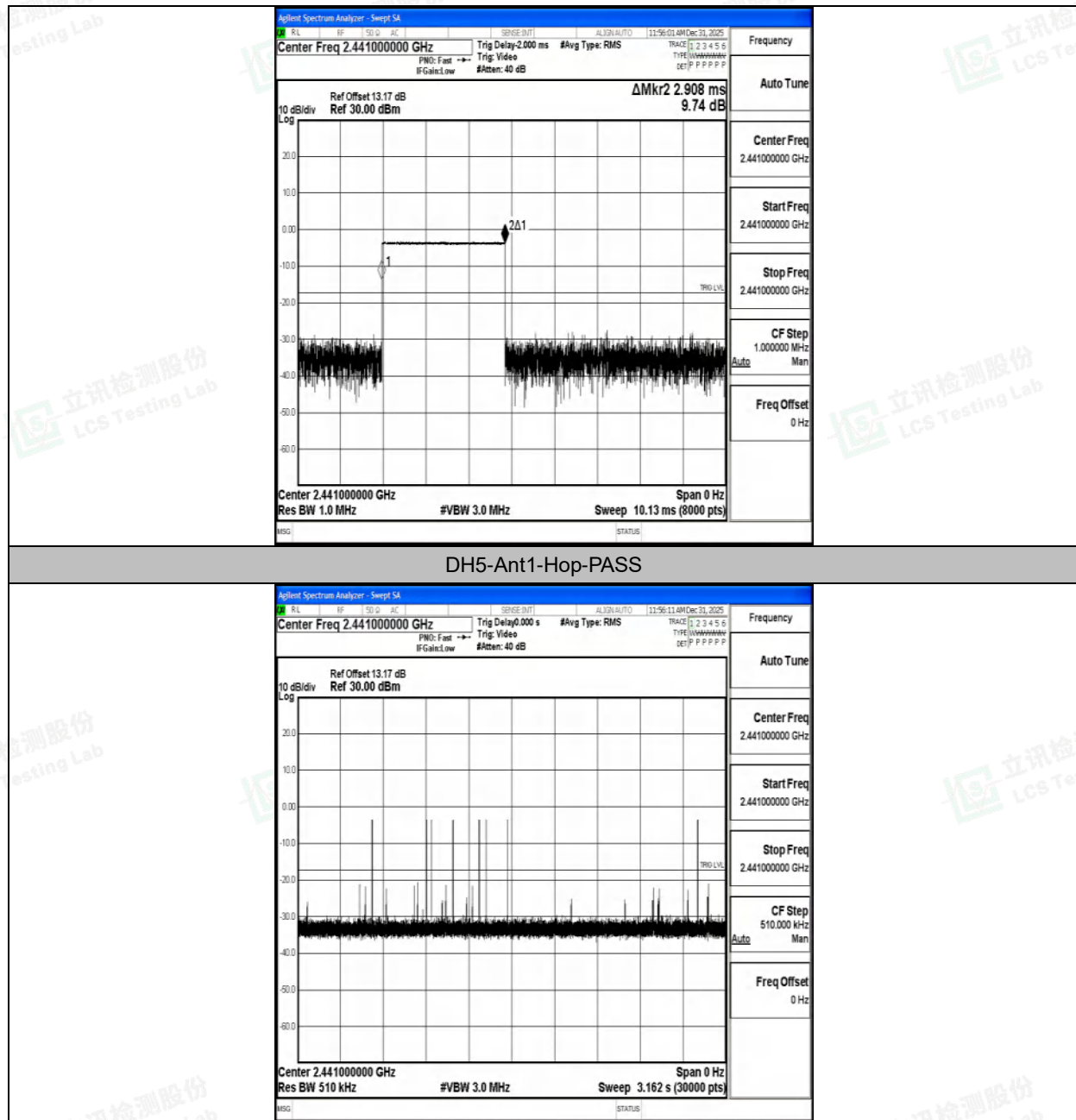


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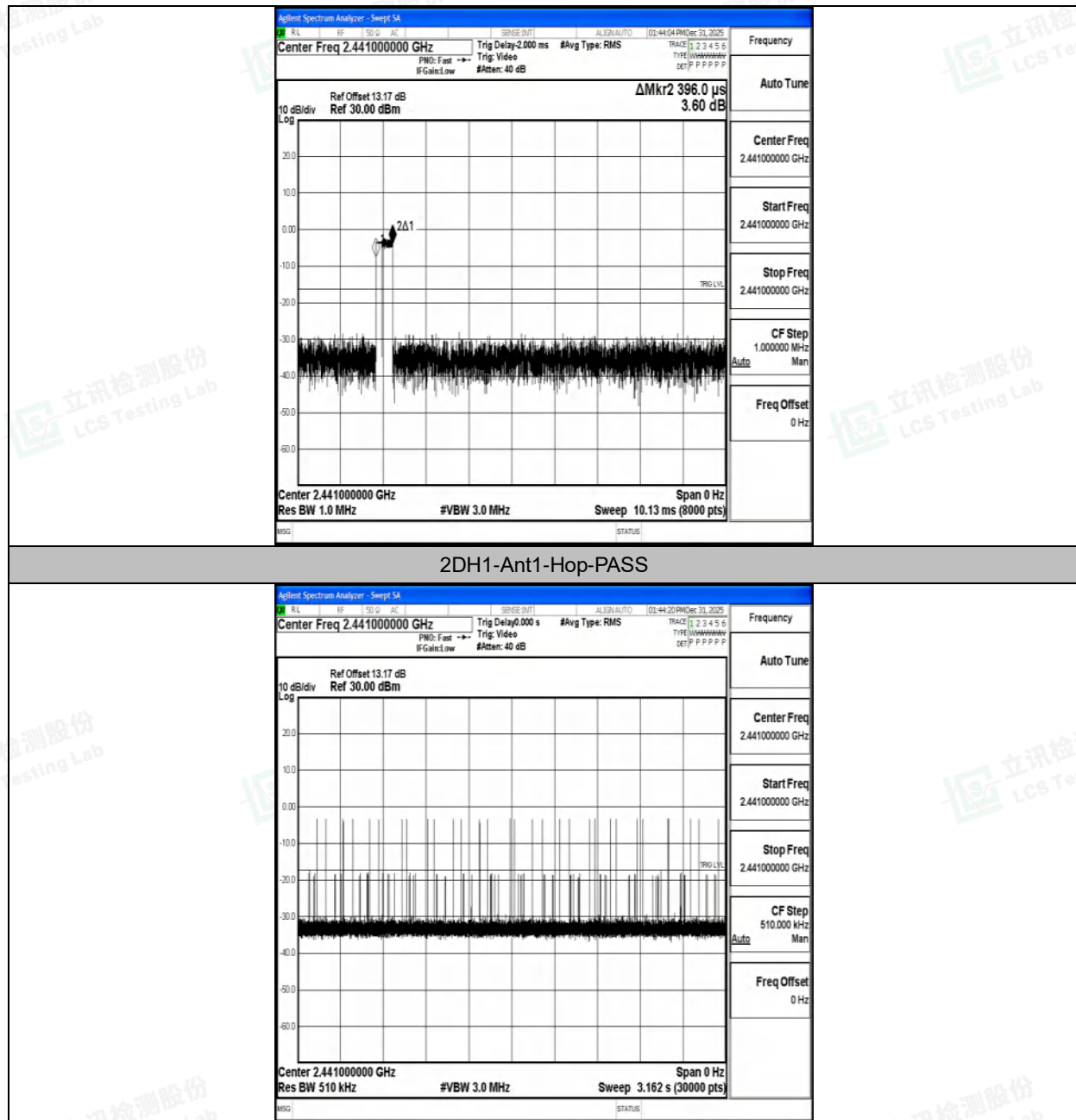


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Scan code to check authenticity

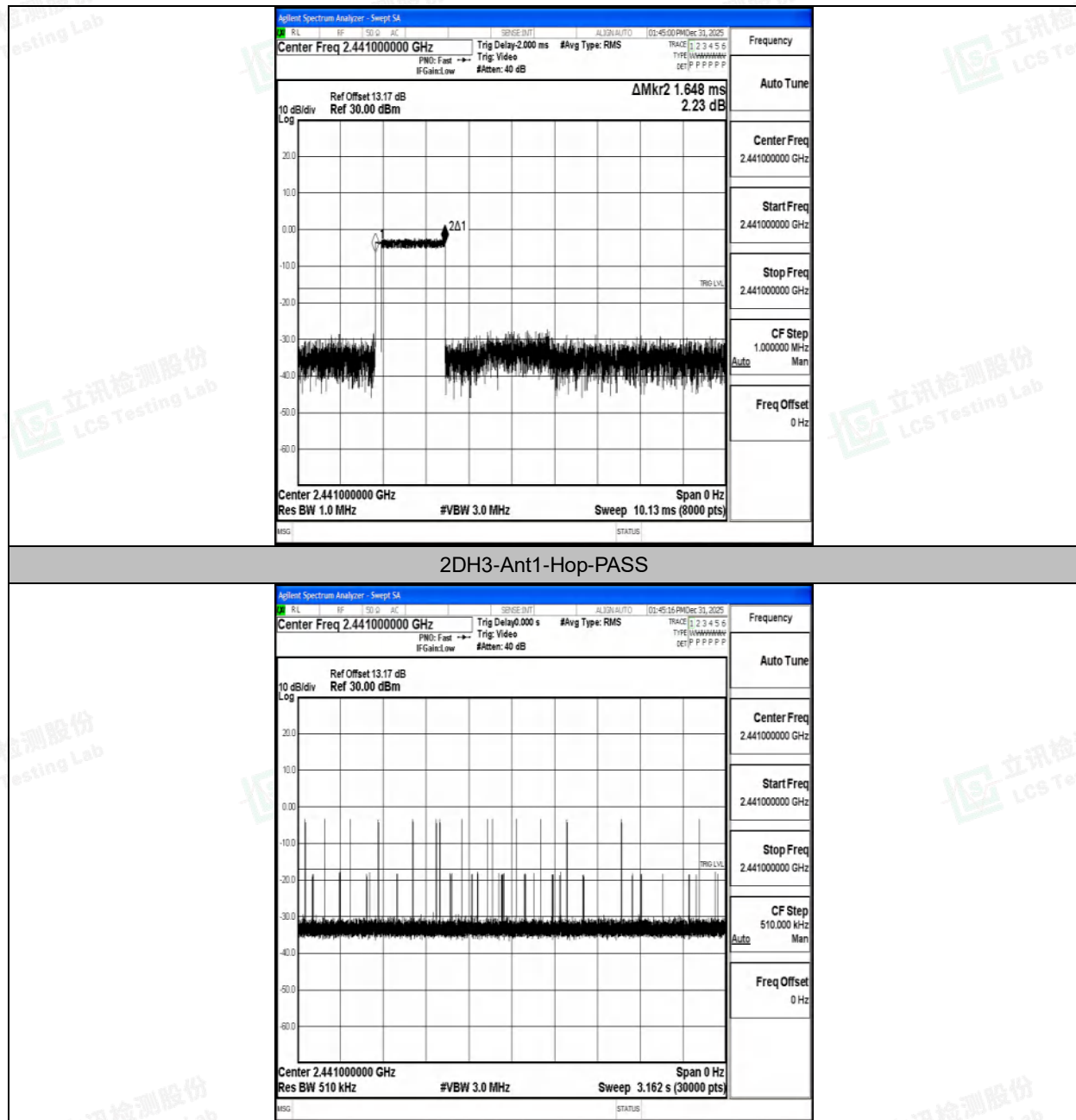


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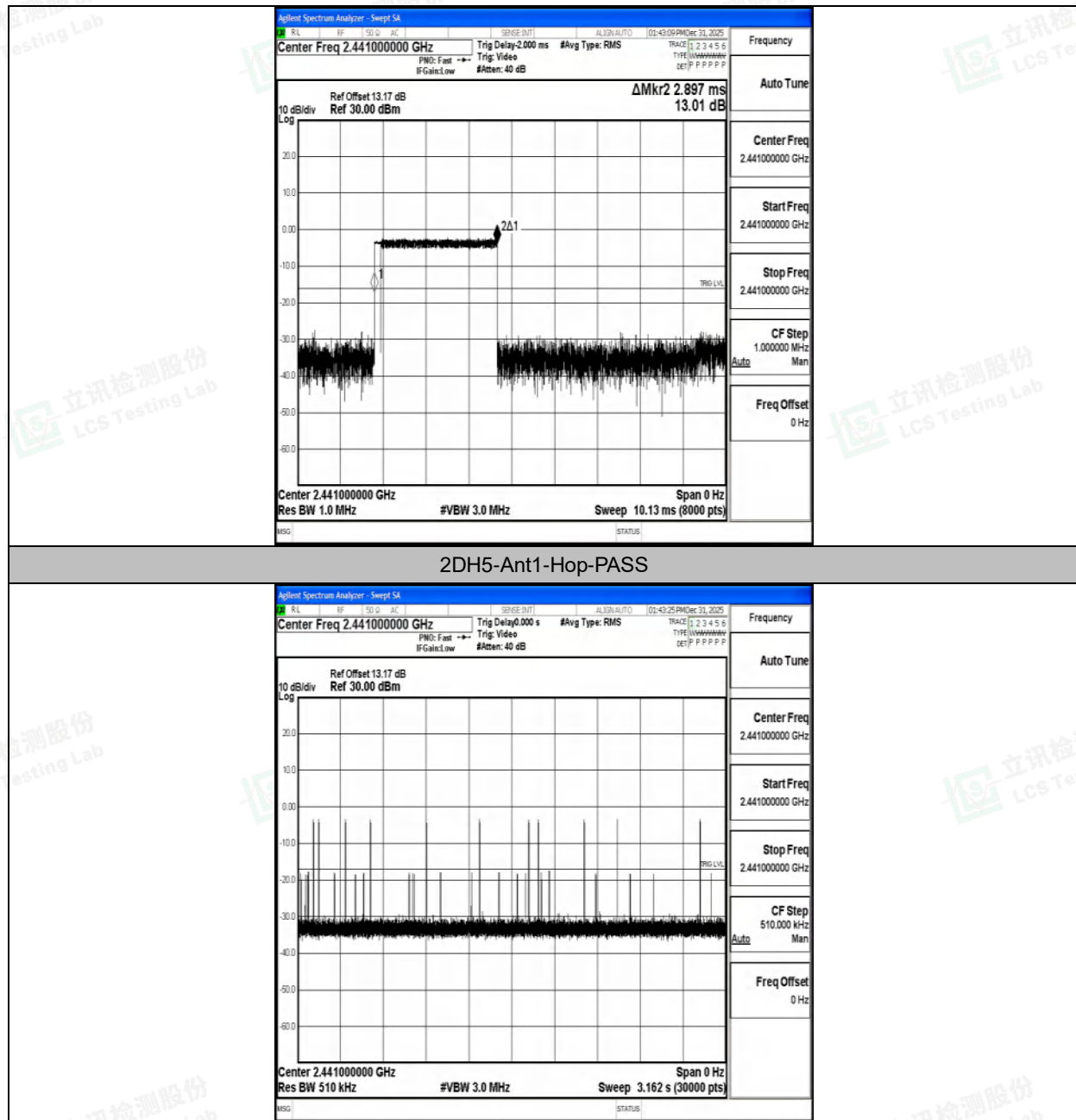


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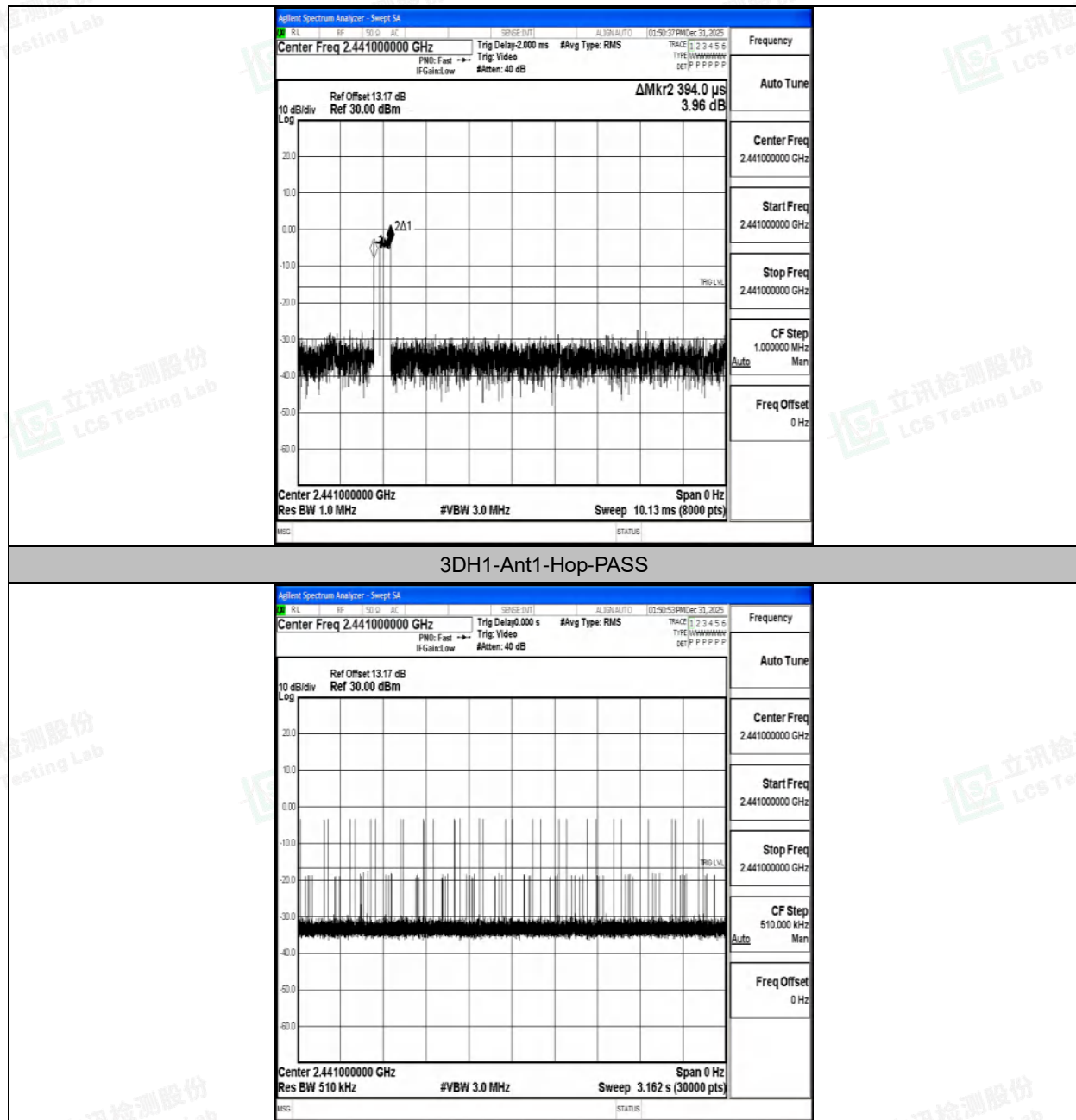


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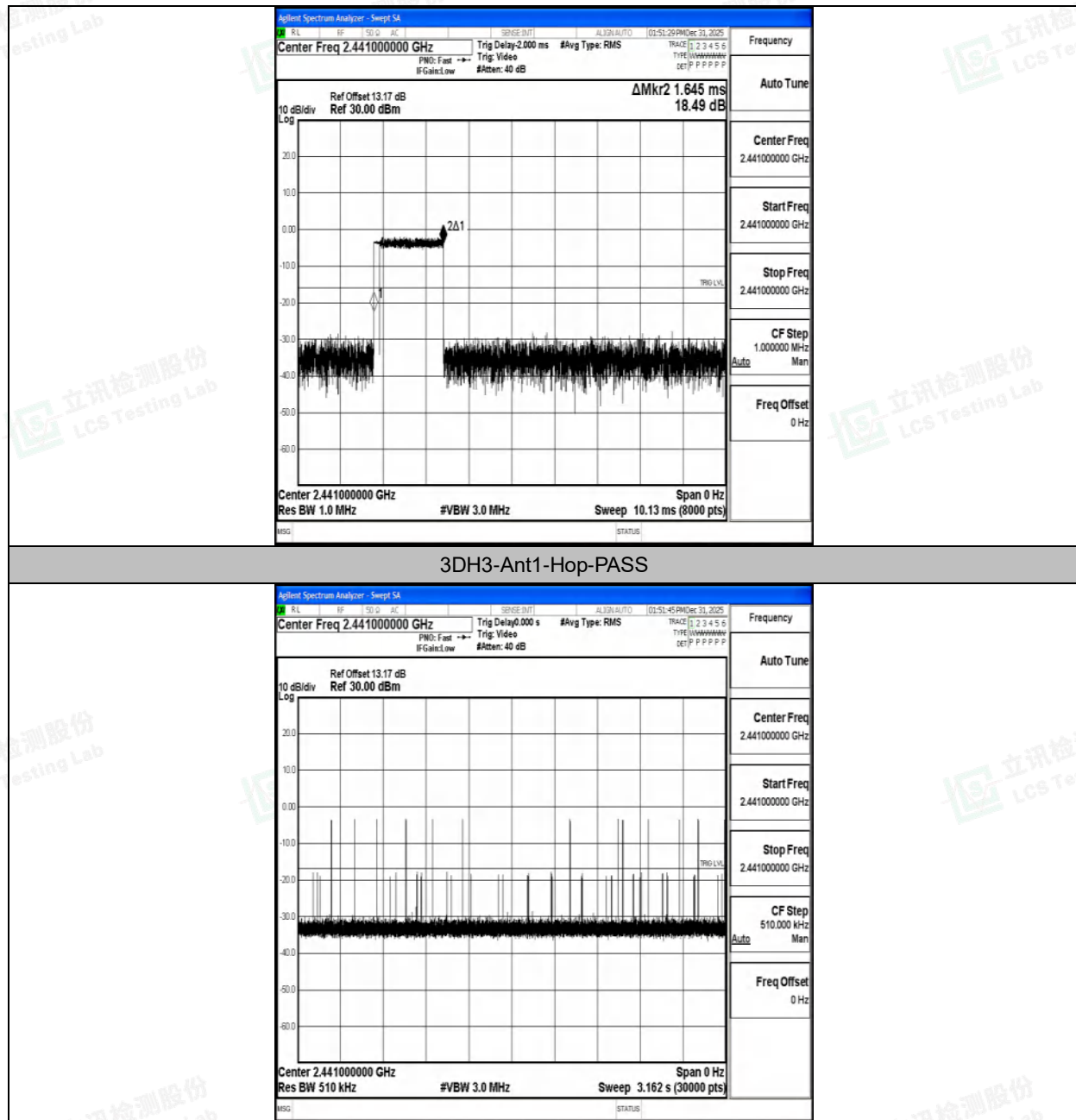


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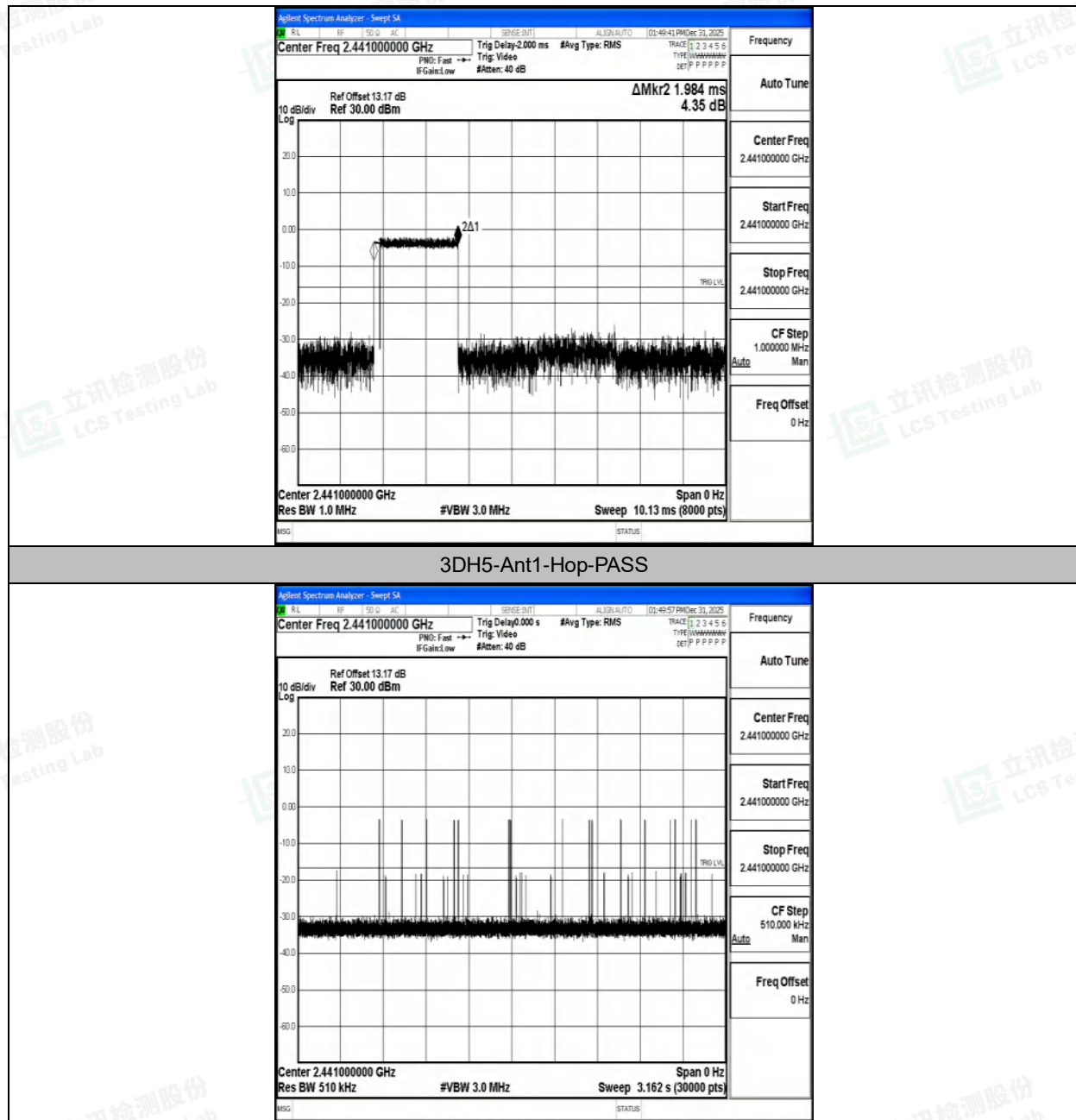


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A.5 Number of hopping channels

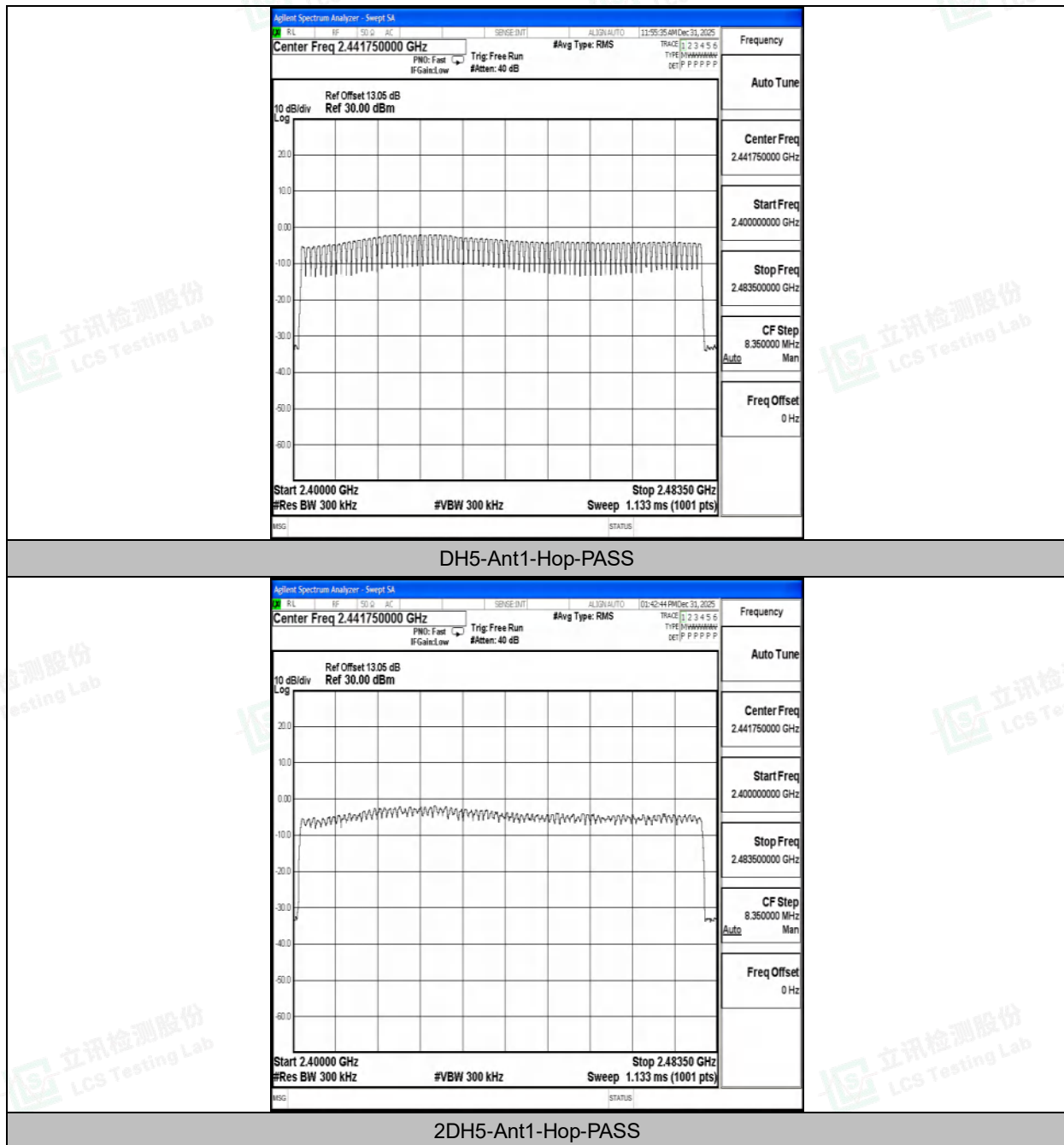
Test Result

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

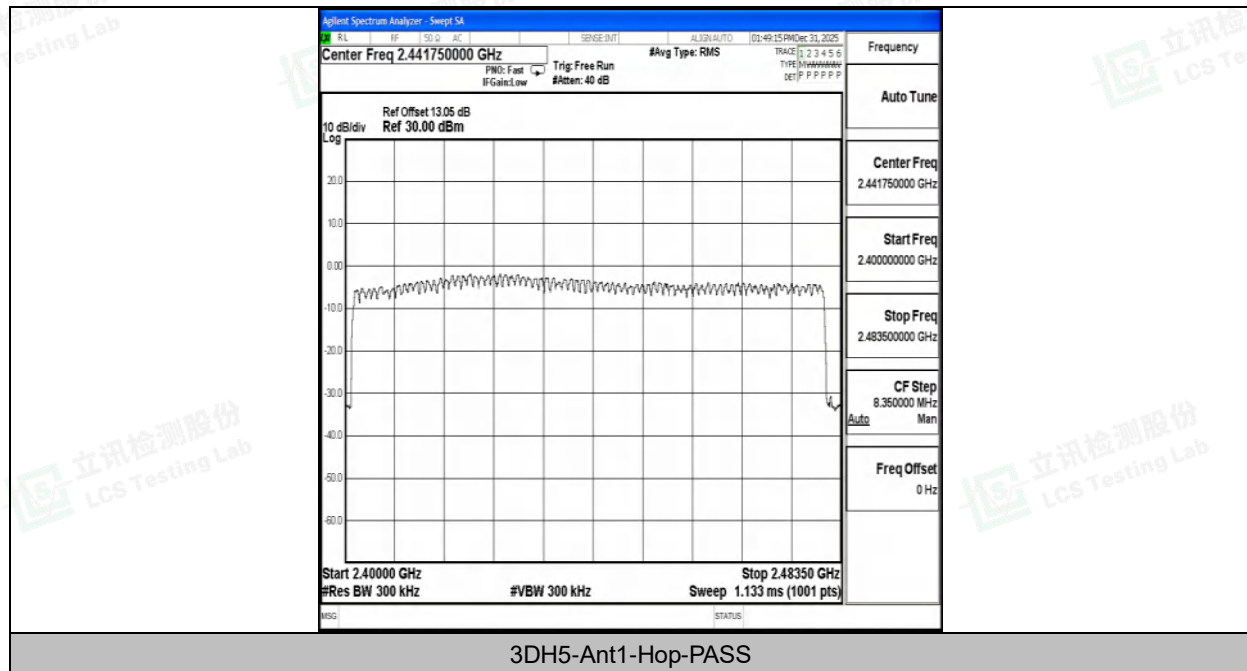


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A.6 Band edge measurements

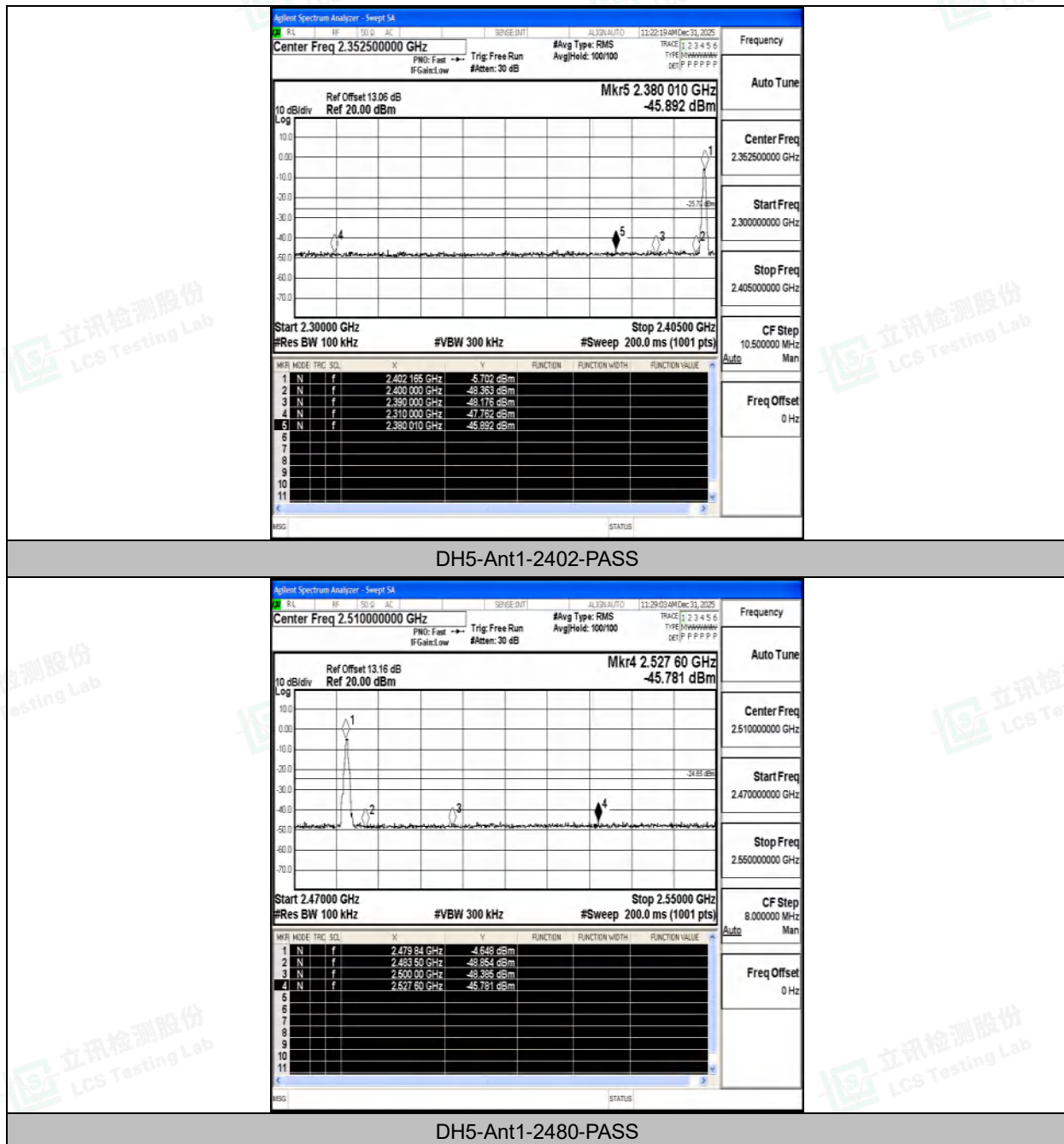
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.70	-45.89	≤ -25.7	PASS
DH5	Ant1	High	2480	-4.65	-45.78	≤ -24.65	PASS
DH5	Ant1	Low	Hop_2402	-6.35	-46.1	≤ -26.35	PASS
DH5	Ant1	High	Hop_2480	-4.96	-45.22	≤ -24.96	PASS
2DH5	Ant1	Low	2402	-5.74	-46.44	≤ -25.74	PASS
2DH5	Ant1	High	2480	-4.77	-45.51	≤ -24.77	PASS
2DH5	Ant1	Low	Hop_2402	-8.31	-45.63	≤ -28.31	PASS
2DH5	Ant1	High	Hop_2480	-4.49	-45.7	≤ -24.49	PASS
3DH5	Ant1	Low	2402	-5.68	-46.23	≤ -25.68	PASS
3DH5	Ant1	High	2480	-4.61	-45.9	≤ -24.61	PASS
3DH5	Ant1	Low	Hop_2402	-8.41	-45.98	≤ -28.41	PASS
3DH5	Ant1	High	Hop_2480	-4.44	-45.37	≤ -24.44	PASS





Test Graphs

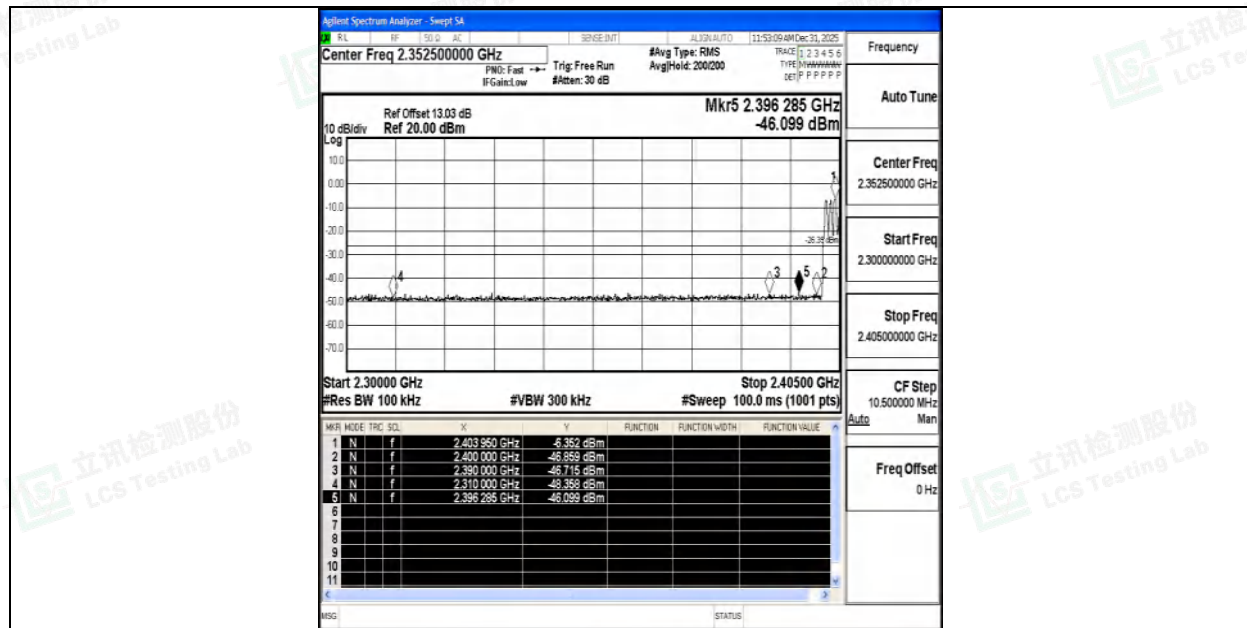


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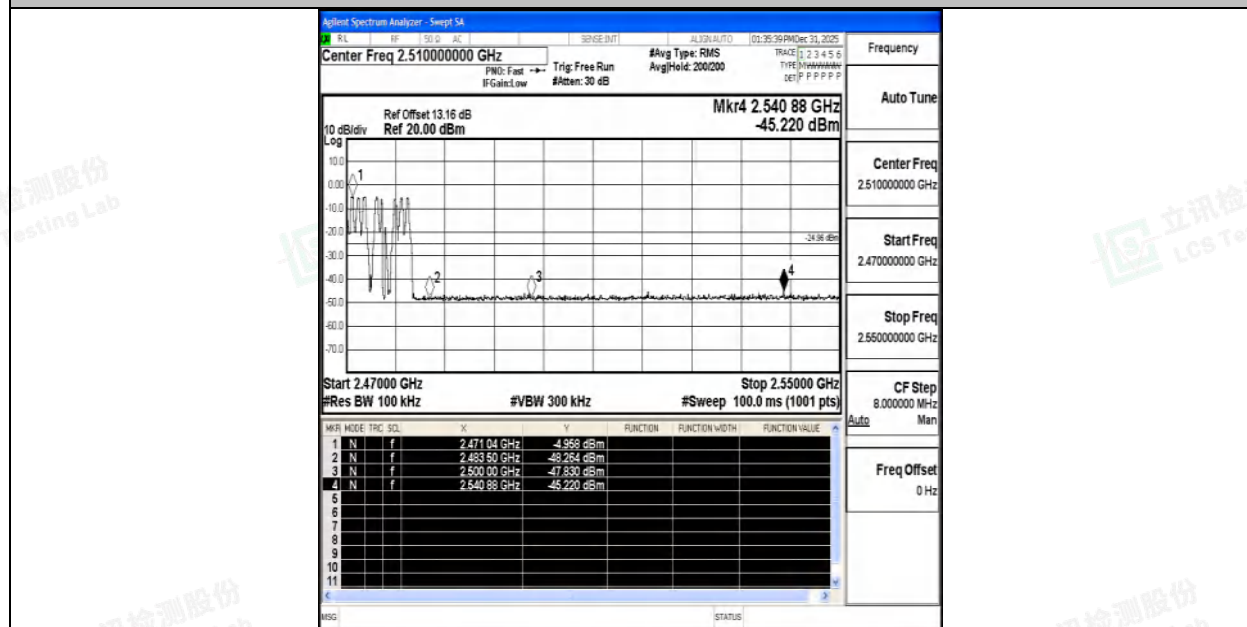
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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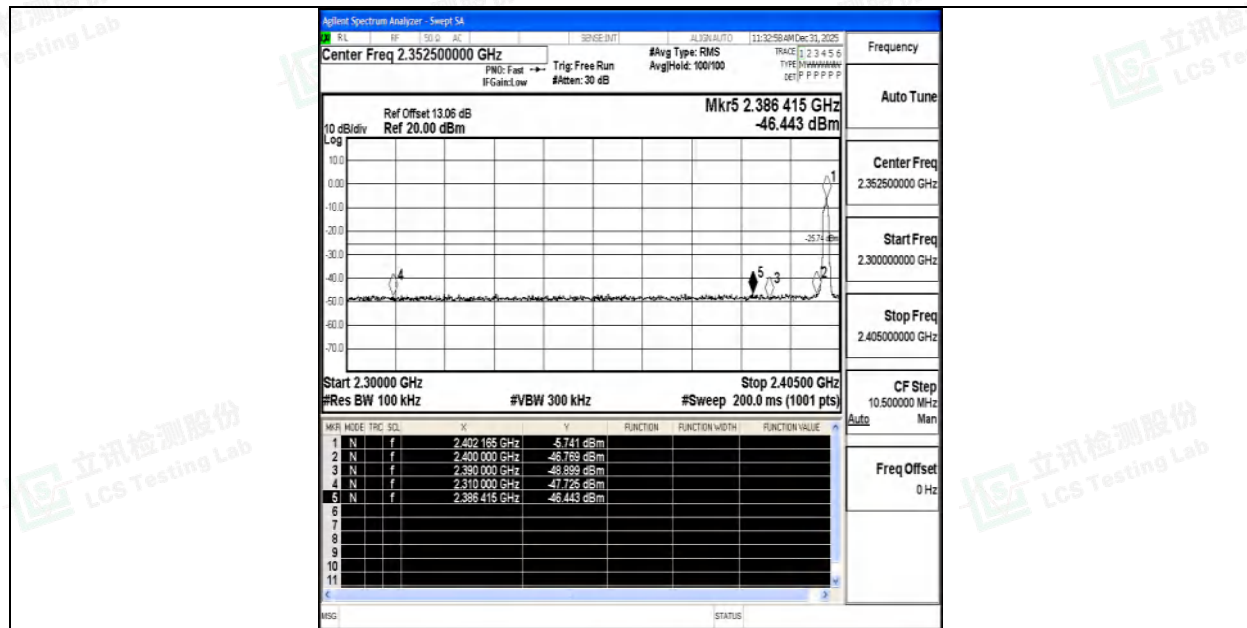


DH5-Ant1-Hop_2402-PASS

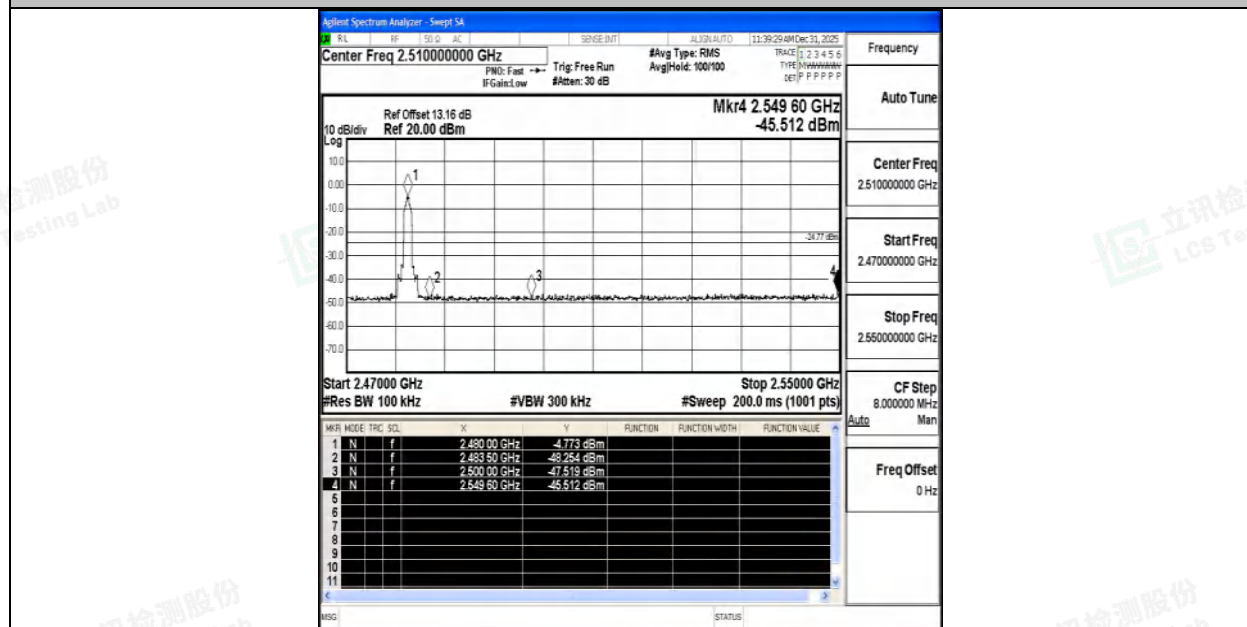


DH5-Ant1-Hop_2480-PASS





2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS

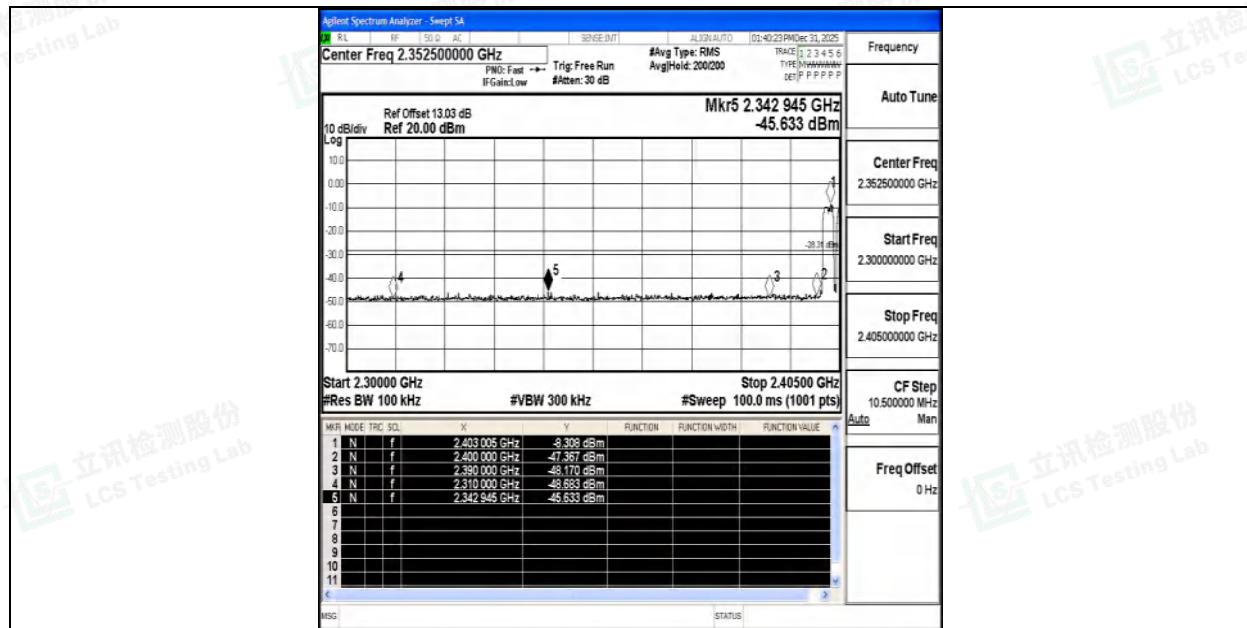


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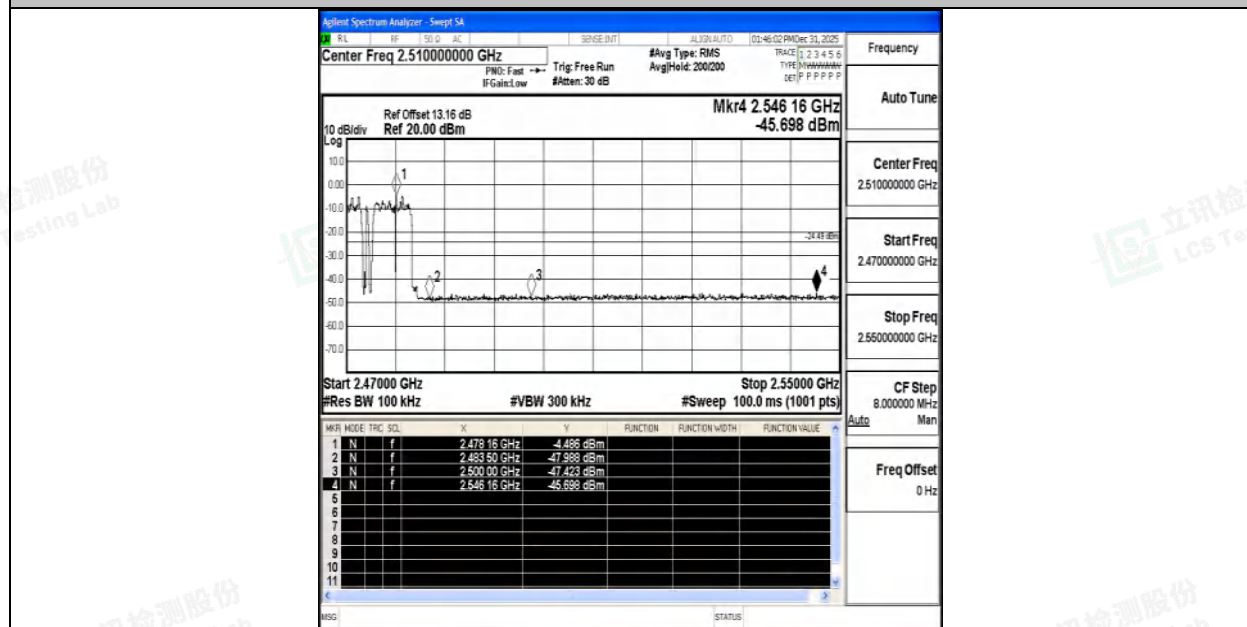
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2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

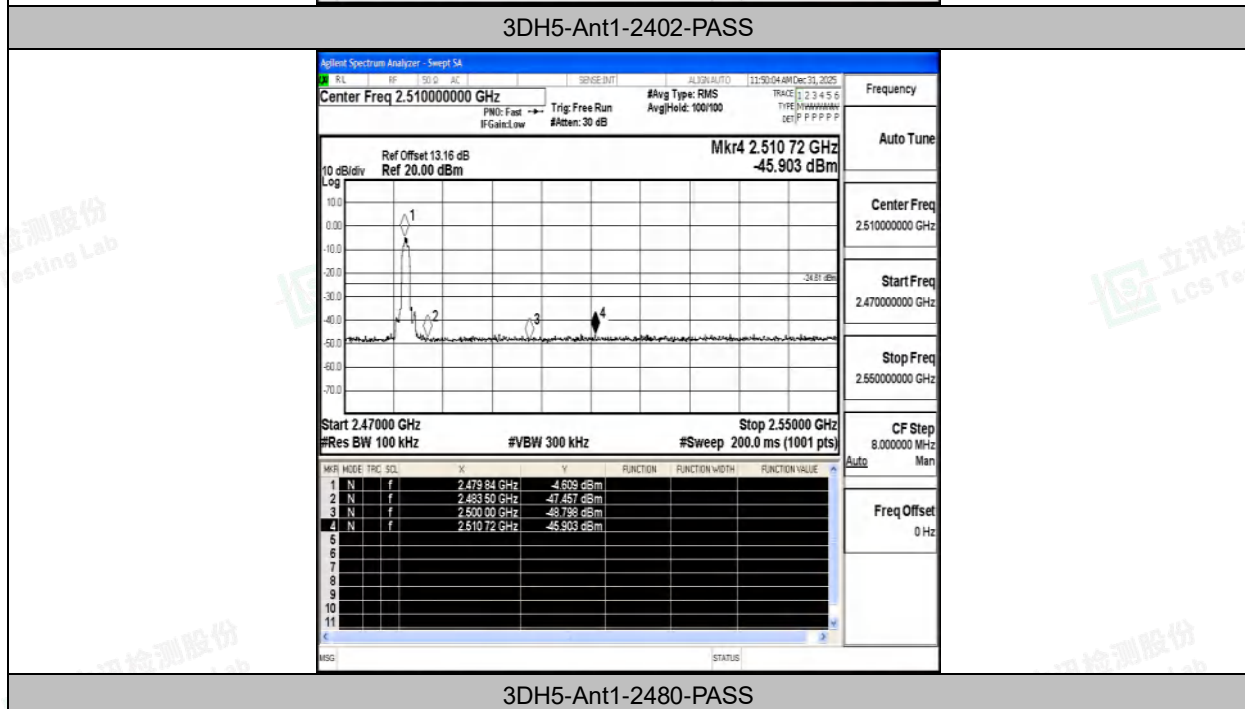
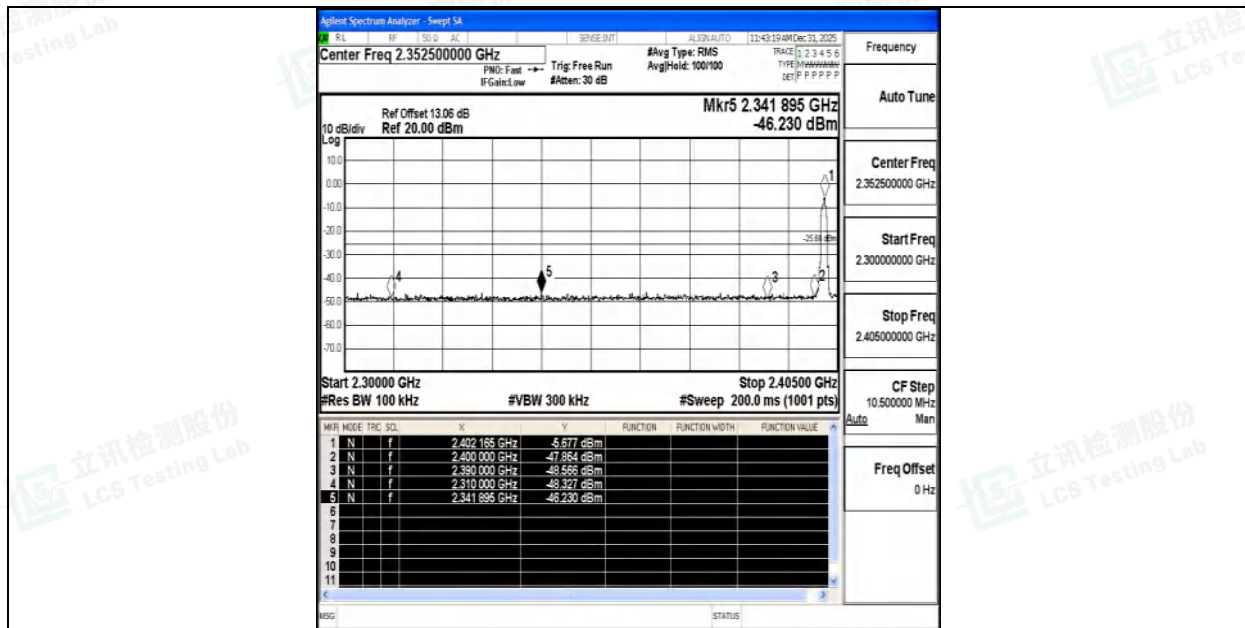


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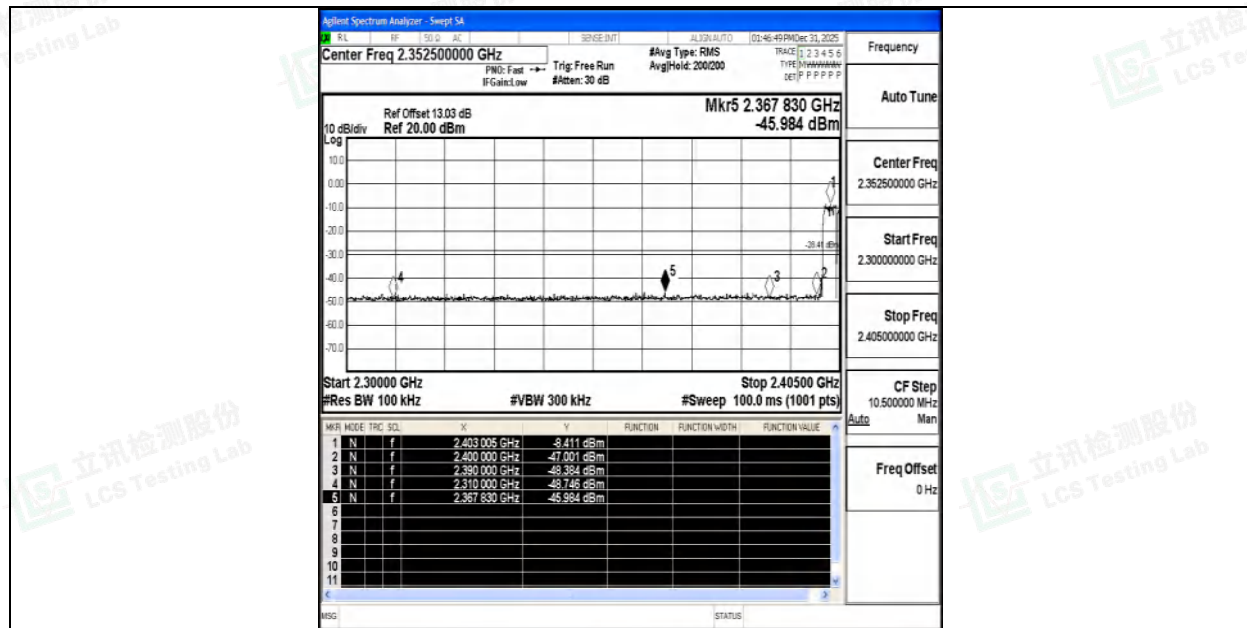


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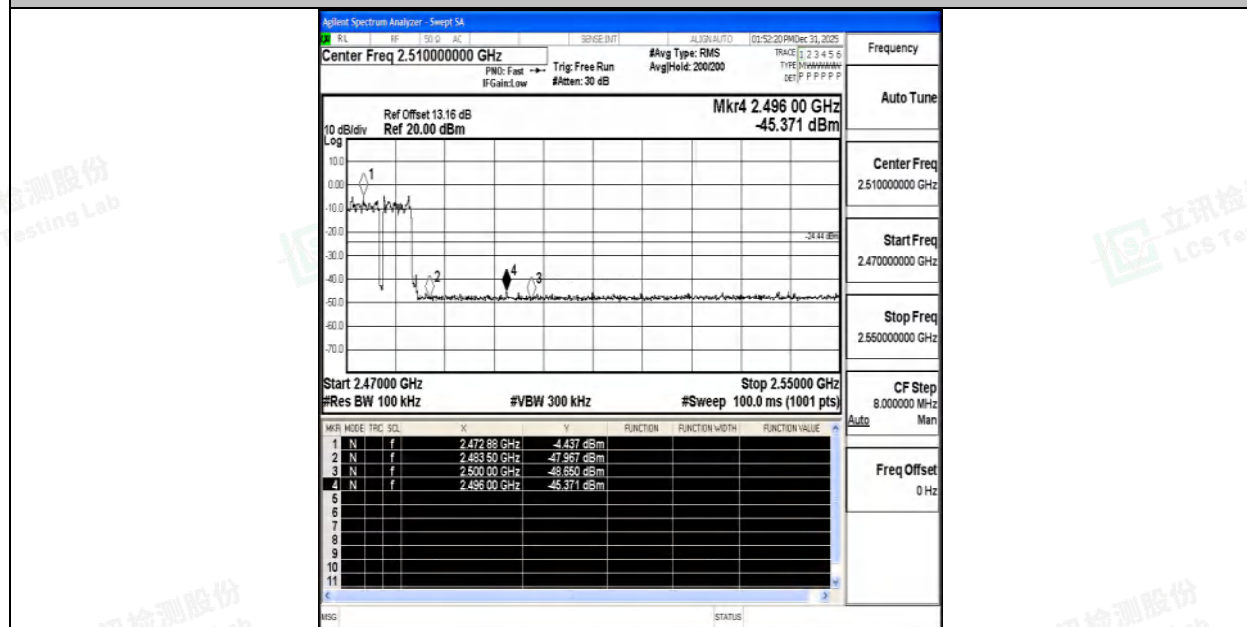
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3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



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A.7 Conducted Spurious Emission

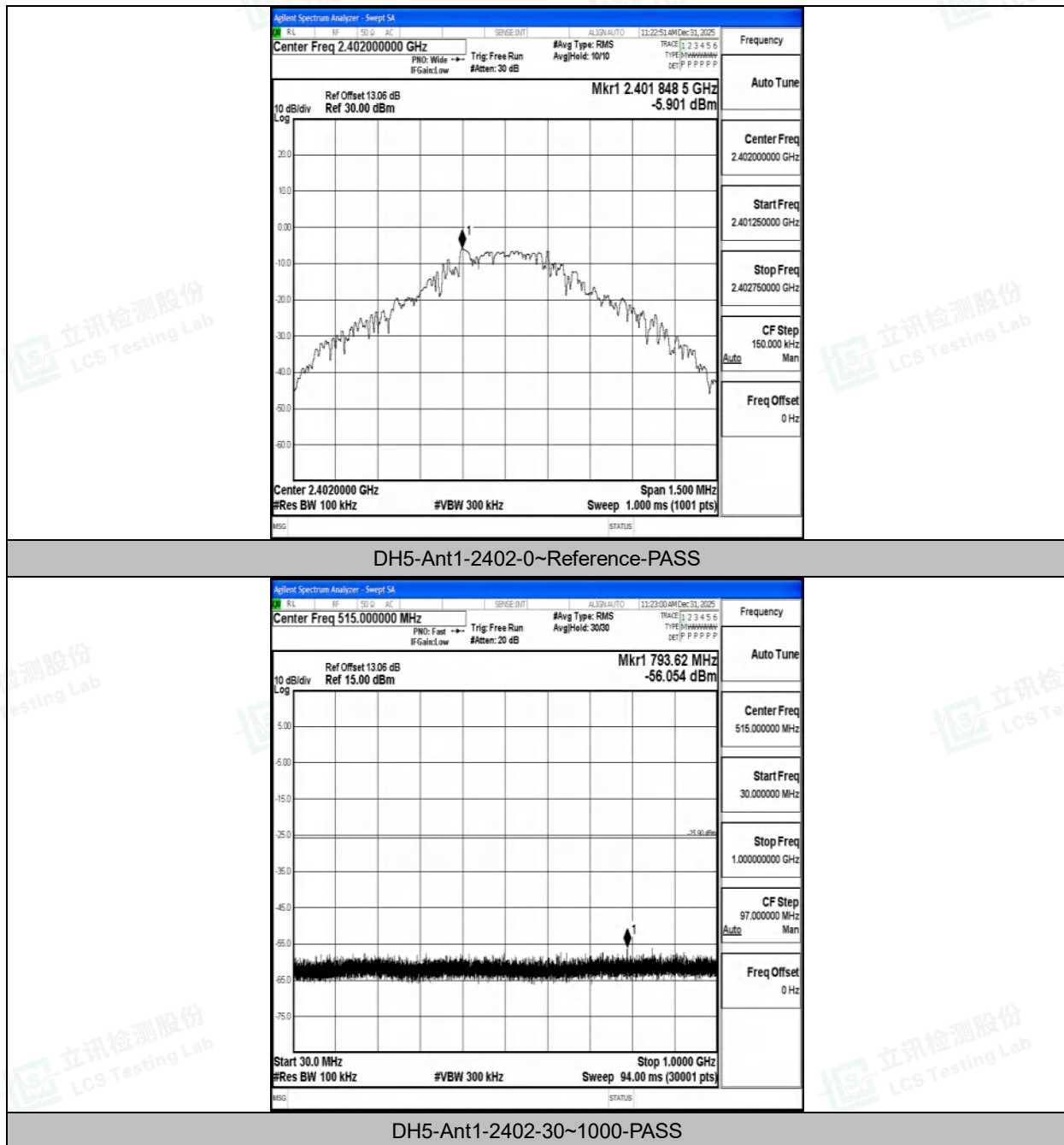
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-5.90	-5.90	---	PASS
DH5	Ant1	2402	30~1000	-5.90	-56.05	≤-25.9	PASS
DH5	Ant1	2402	1000~26500	-5.90	-44.18	≤-25.9	PASS
DH5	Ant1	2441	0~Reference	-3.75	-3.75	---	PASS
DH5	Ant1	2441	30~1000	-3.75	-56.38	≤-23.75	PASS
DH5	Ant1	2441	1000~26500	-3.75	-44.14	≤-23.75	PASS
DH5	Ant1	2480	0~Reference	-5.34	-5.34	---	PASS
DH5	Ant1	2480	30~1000	-5.34	-37.91	≤-25.34	PASS
DH5	Ant1	2480	1000~26500	-5.34	-44.31	≤-25.34	PASS
2DH5	Ant1	2402	0~Reference	-7.56	-7.56	---	PASS
2DH5	Ant1	2402	30~1000	-7.56	-56.78	≤-27.56	PASS
2DH5	Ant1	2402	1000~26500	-7.56	-45	≤-27.56	PASS
2DH5	Ant1	2441	0~Reference	-7.34	-7.34	---	PASS
2DH5	Ant1	2441	30~1000	-7.34	-56.33	≤-27.34	PASS
2DH5	Ant1	2441	1000~26500	-7.34	-43.8	≤-27.34	PASS
2DH5	Ant1	2480	0~Reference	-5.11	-5.11	---	PASS
2DH5	Ant1	2480	30~1000	-5.11	-56.28	≤-25.11	PASS
2DH5	Ant1	2480	1000~26500	-5.11	-43.78	≤-25.11	PASS
3DH5	Ant1	2402	0~Reference	-8.43	-8.43	---	PASS
3DH5	Ant1	2402	30~1000	-8.43	-56.4	≤-28.43	PASS
3DH5	Ant1	2402	1000~26500	-8.43	-44.06	≤-28.43	PASS
3DH5	Ant1	2441	0~Reference	-5.91	-5.91	---	PASS
3DH5	Ant1	2441	30~1000	-5.91	-57.17	≤-25.91	PASS
3DH5	Ant1	2441	1000~26500	-5.91	-43.7	≤-25.91	PASS
3DH5	Ant1	2480	0~Reference	-6.20	-6.20	---	PASS
3DH5	Ant1	2480	30~1000	-6.20	-57.22	≤-26.2	PASS
3DH5	Ant1	2480	1000~26500	-6.20	-43.88	≤-26.2	PASS





Test Graphs

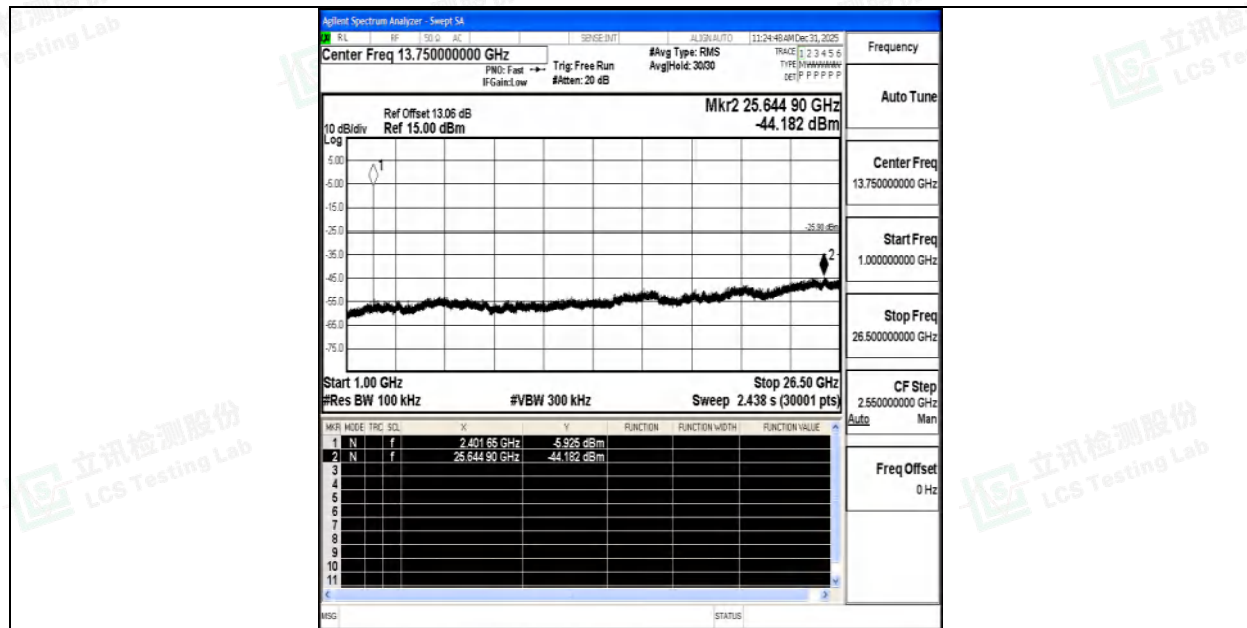


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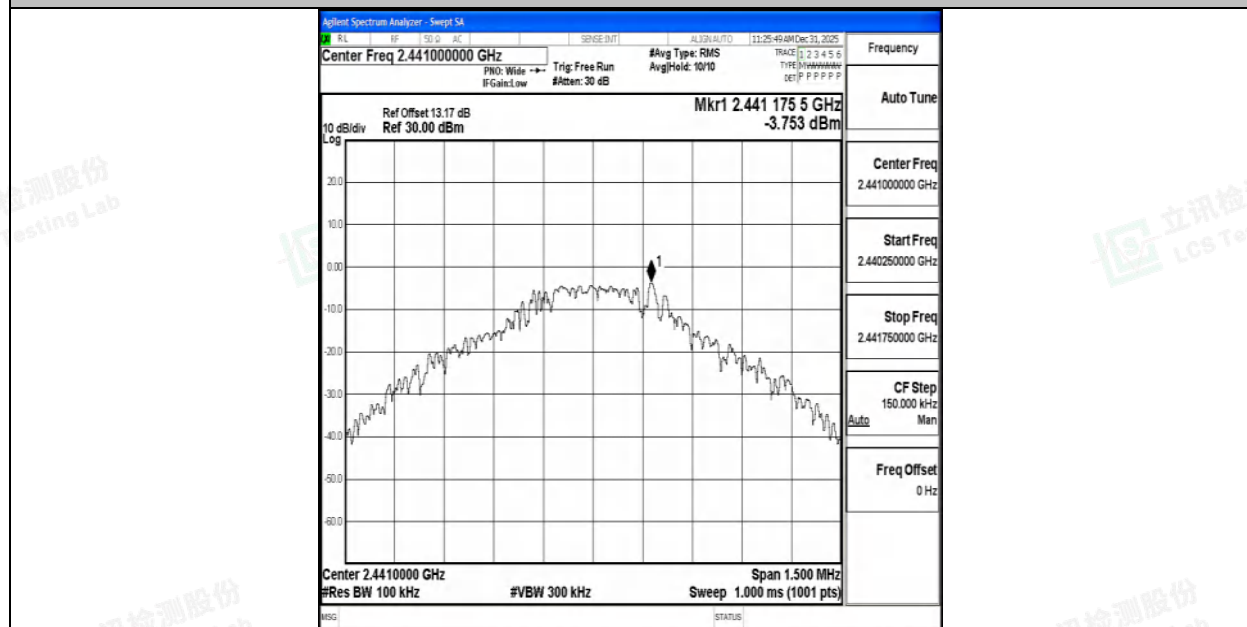
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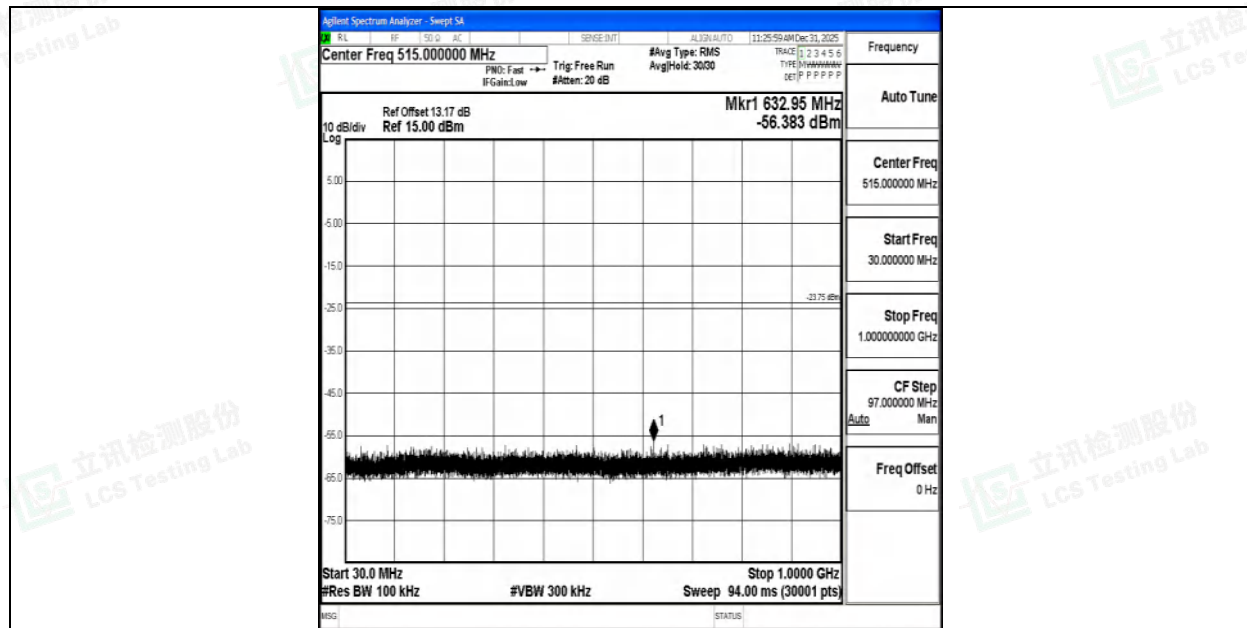


DH5-Ant1-2402-1000~26500-PASS

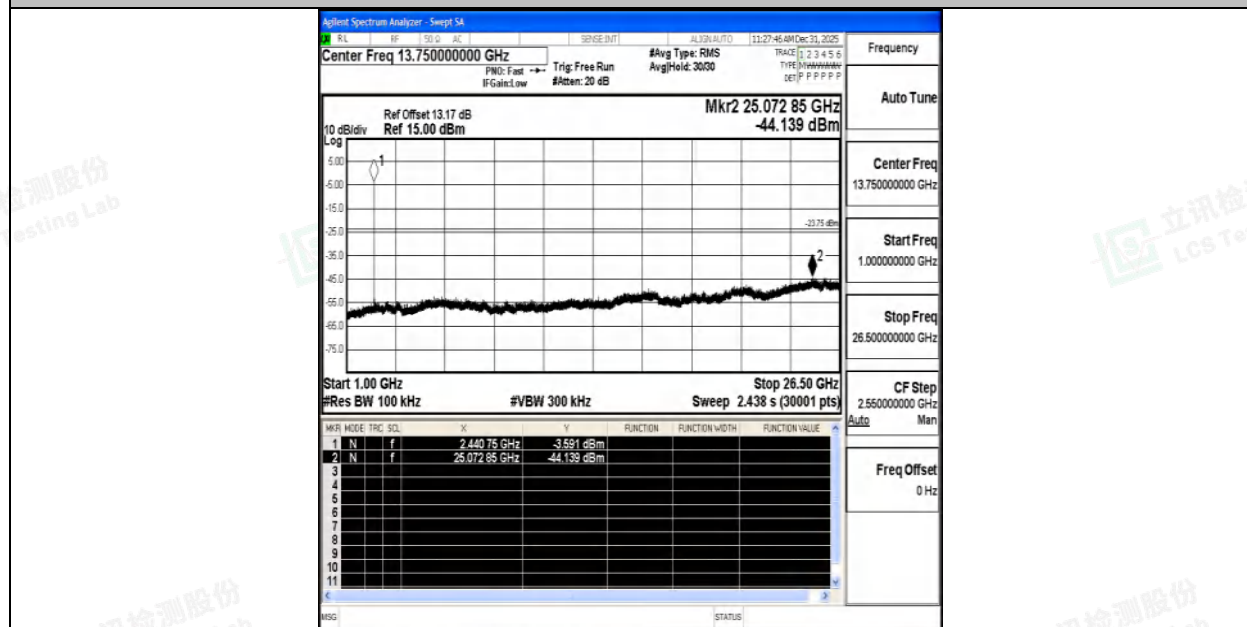


DH5-Ant1-2441-0~Reference-PASS



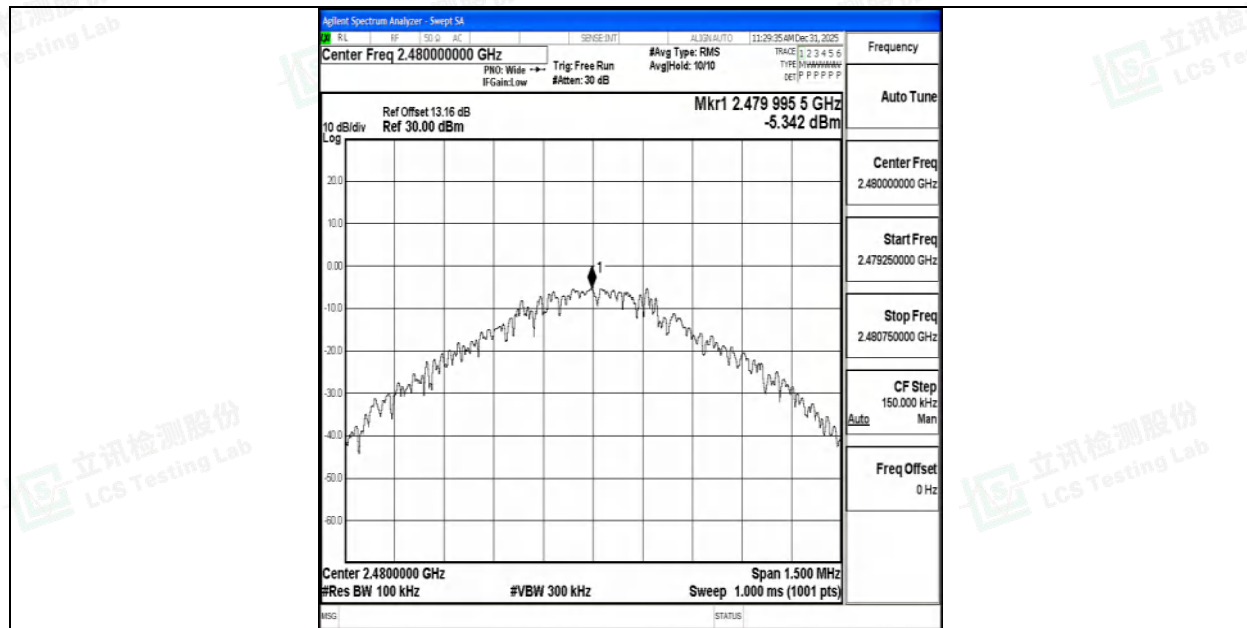


DH5-Ant1-2441-30~1000-PASS

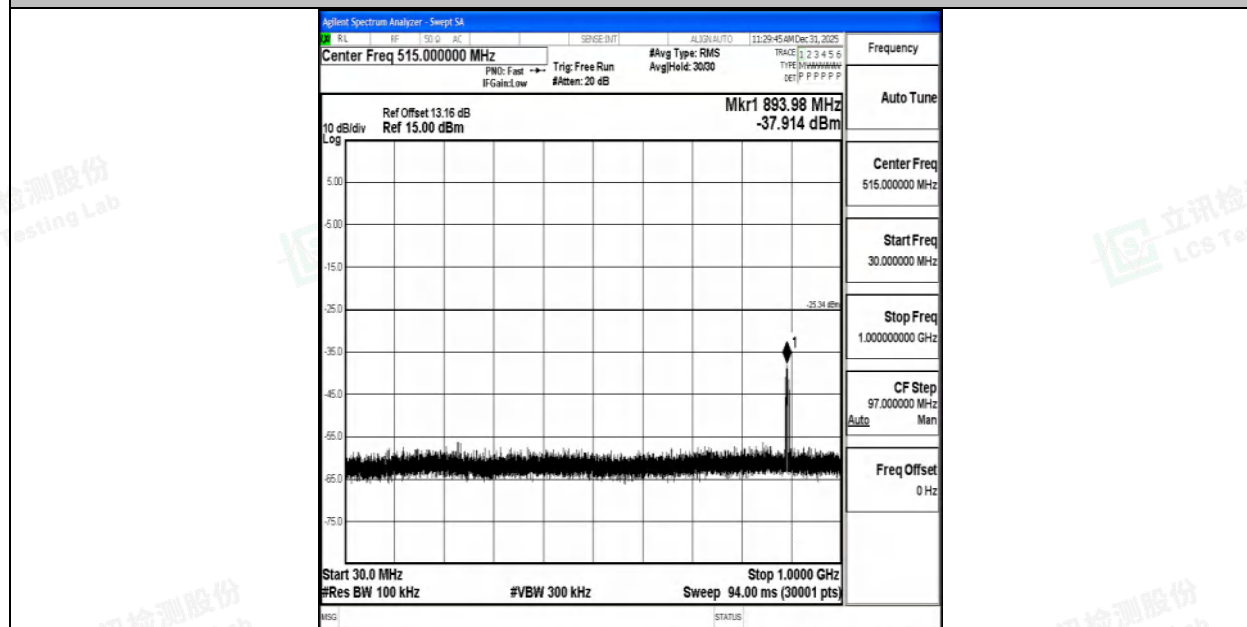


DH5-Ant1-2441-1000~26500-PASS



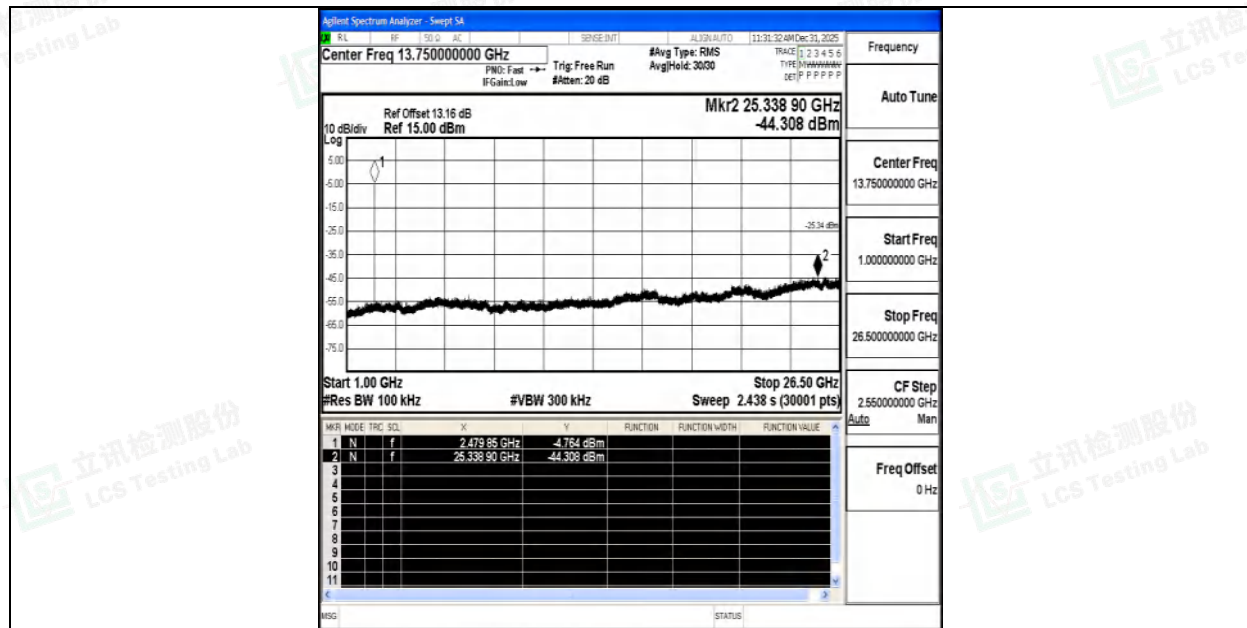


DH5-Ant1-2480-0~Reference-PASS

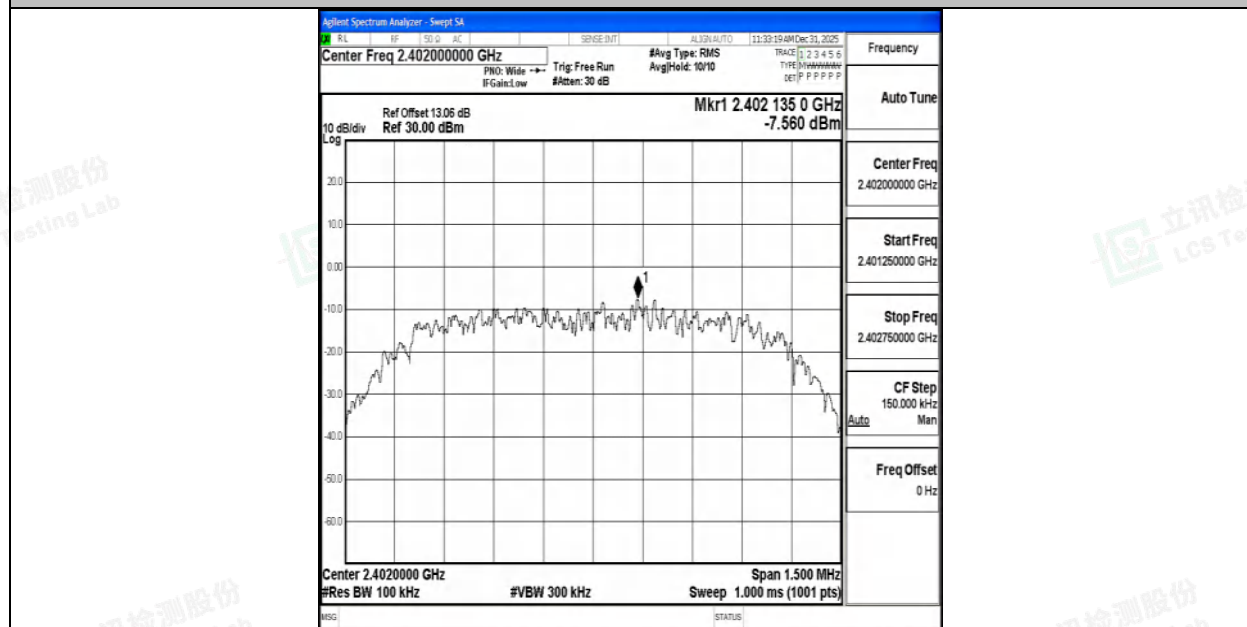


DH5-Ant1-2480-30~1000-PASS



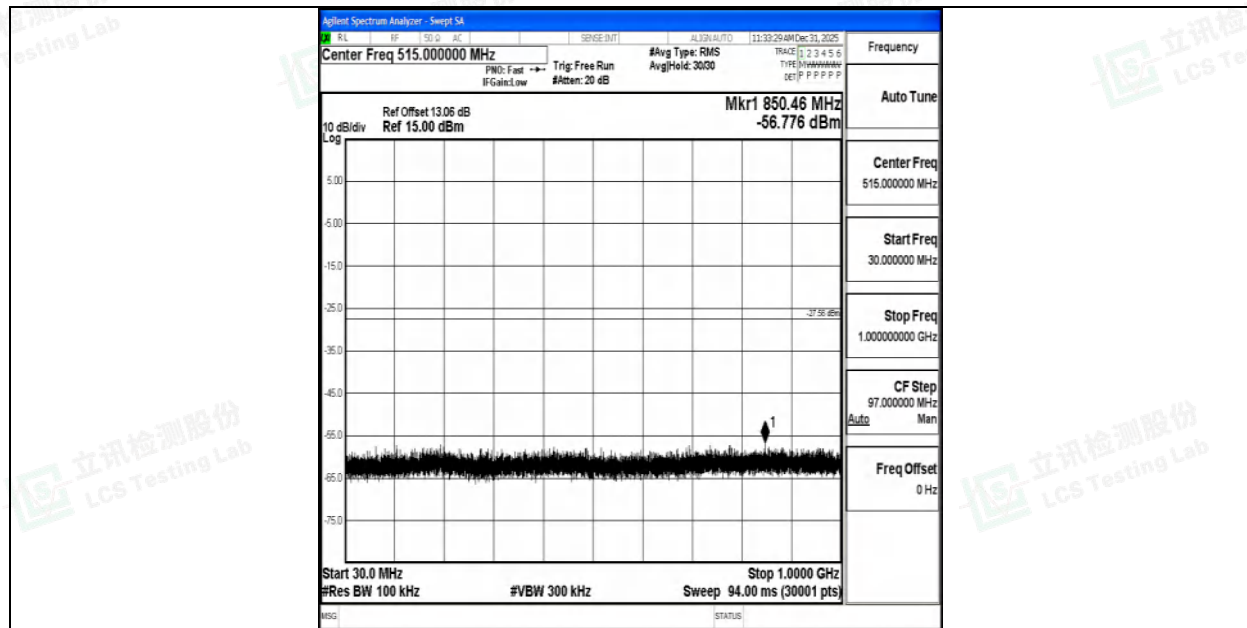


DH5-Ant1-2480-1000~26500-PASS

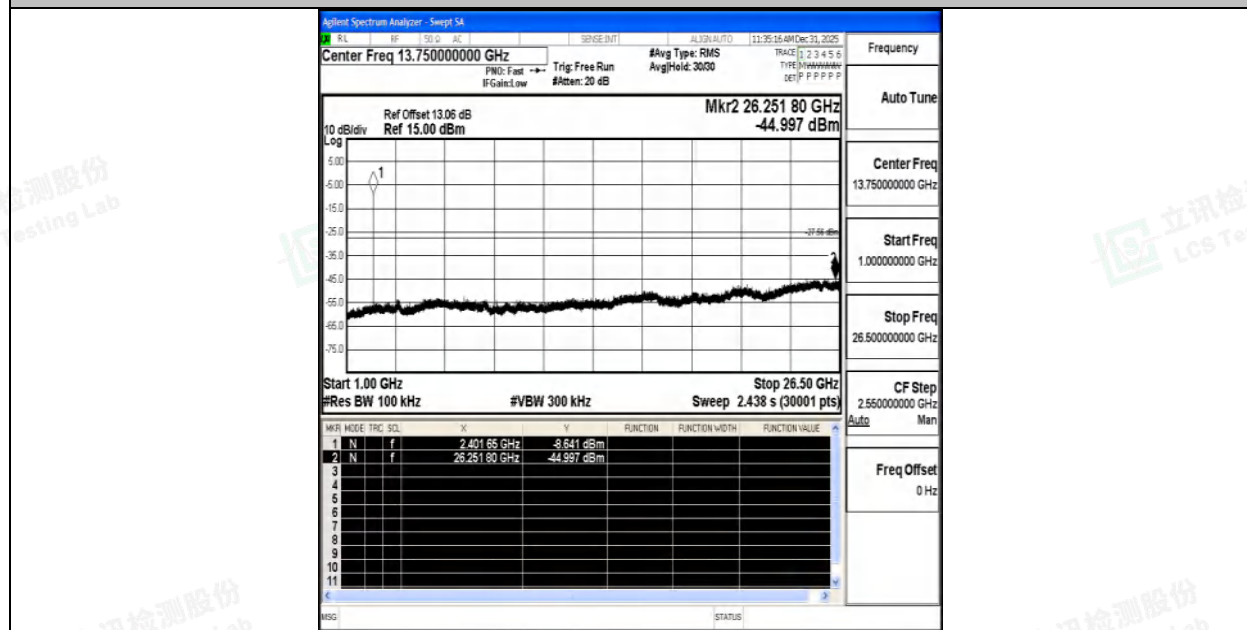


2DH5-Ant1-2402-0~Reference-PASS





2DH5-Ant1-2402-30~1000-PASS



2DH5-Ant1-2402-1000~26500-PASS

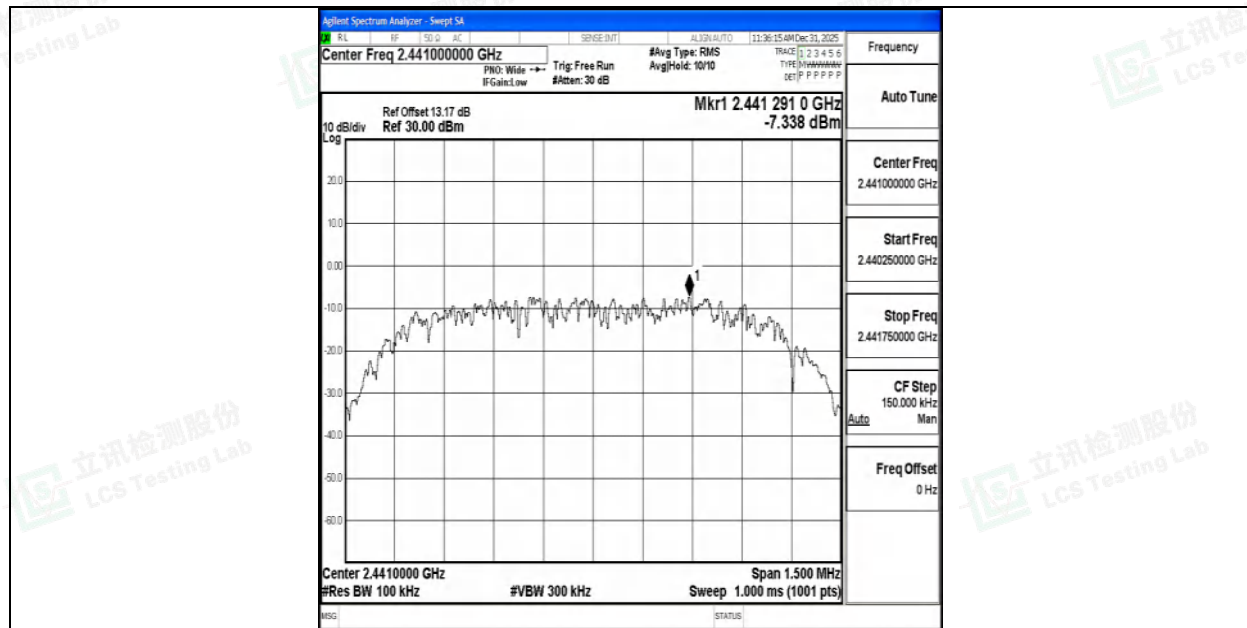


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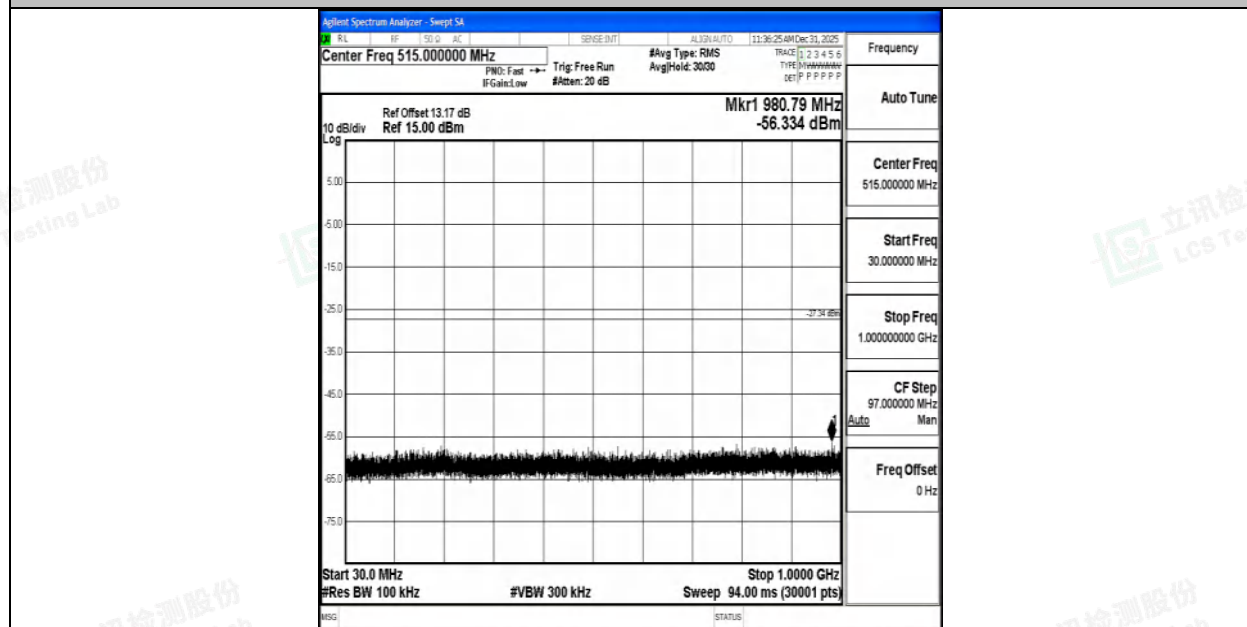
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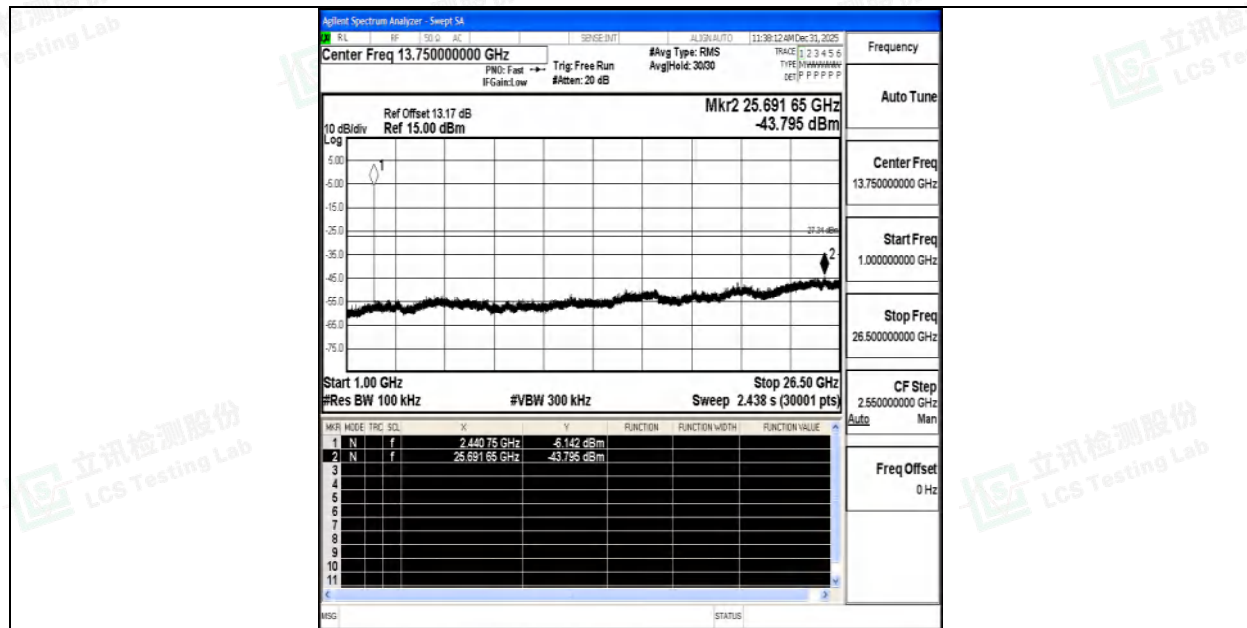


2DH5-Ant1-2441-0~Reference-PASS

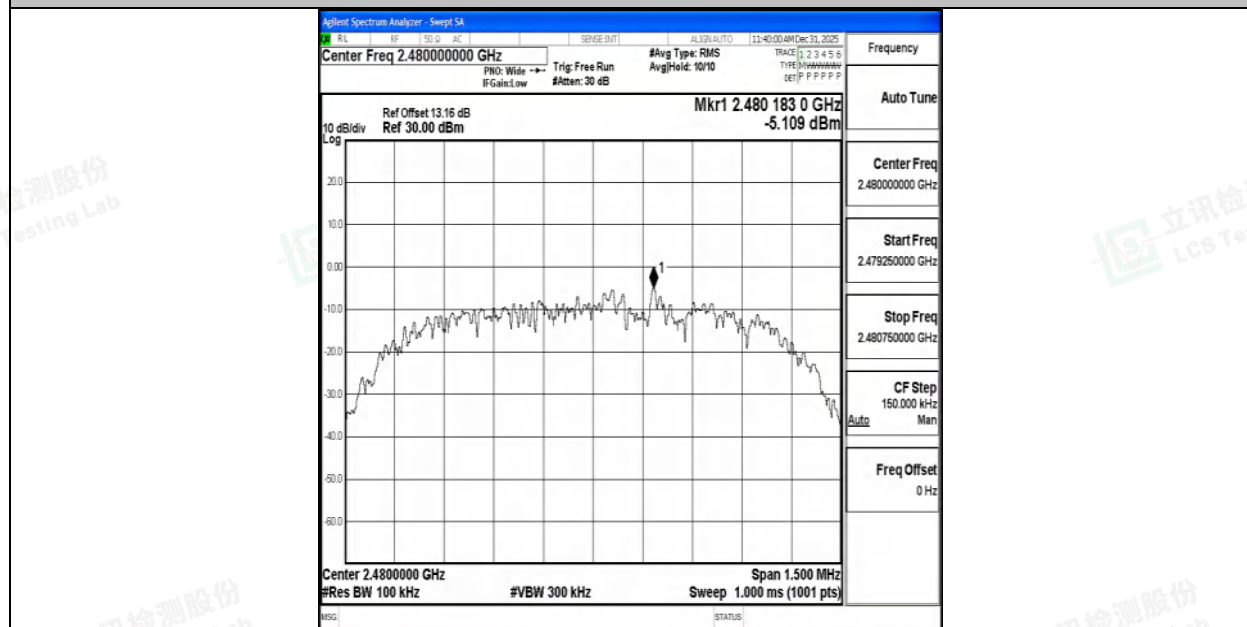


2DH5-Ant1-2441-30~1000-PASS





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



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

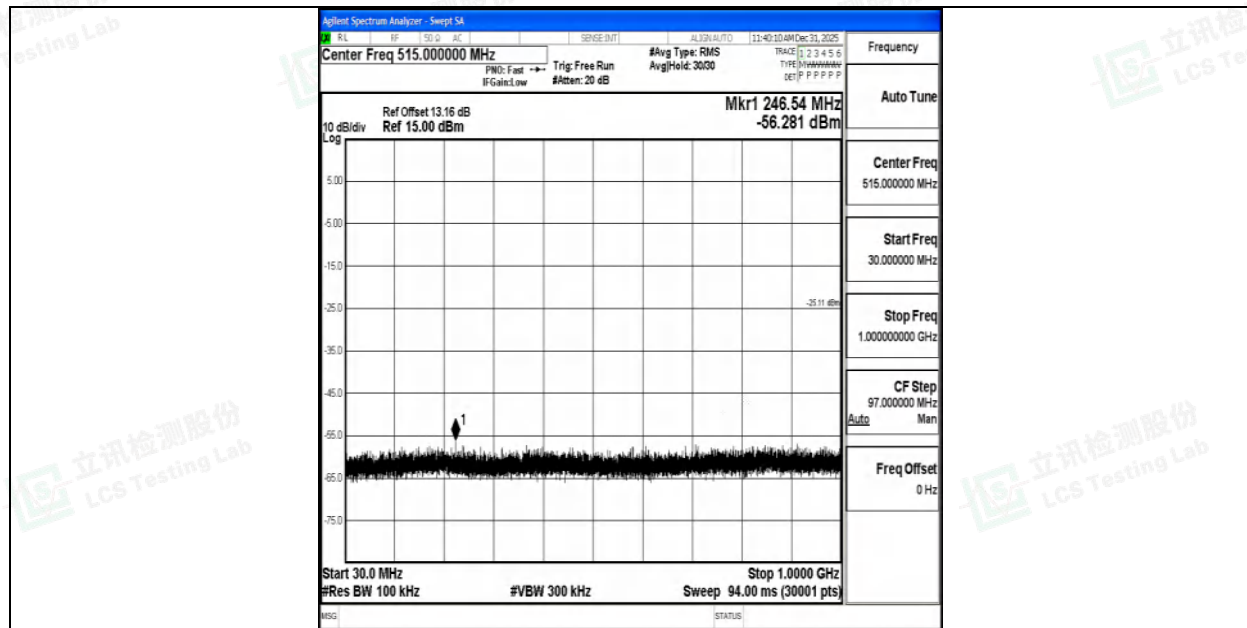


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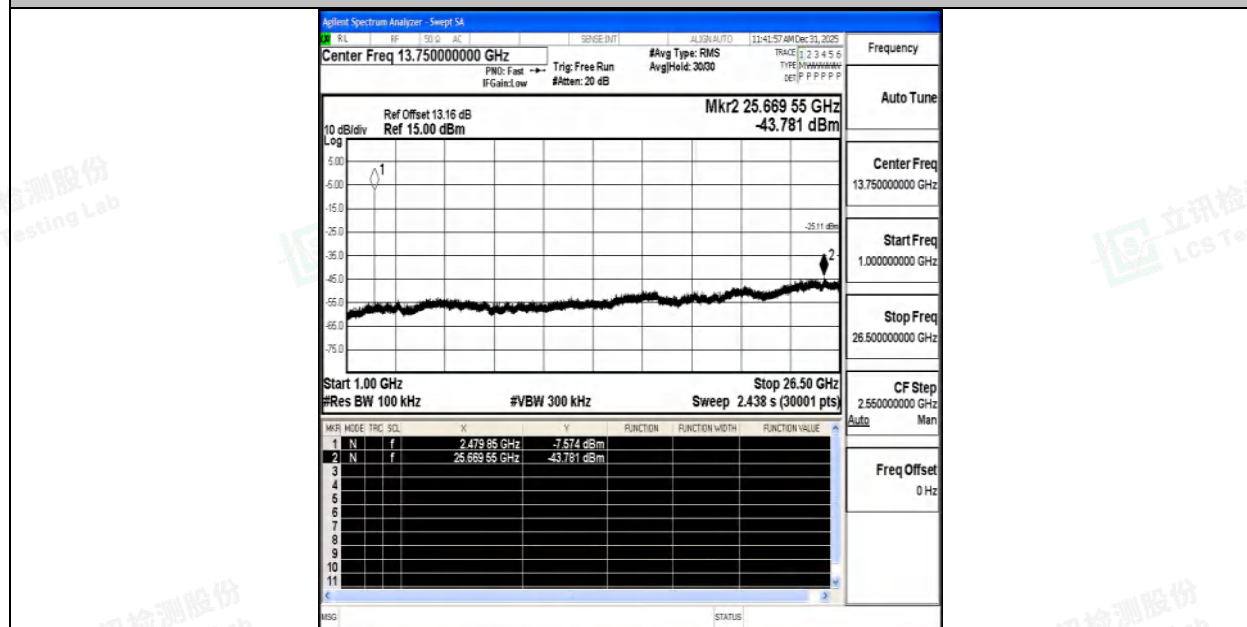
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2DH5-Ant1-2480-30~1000-PASS



2DH5-Ant1-2480-1000~26500-PASS

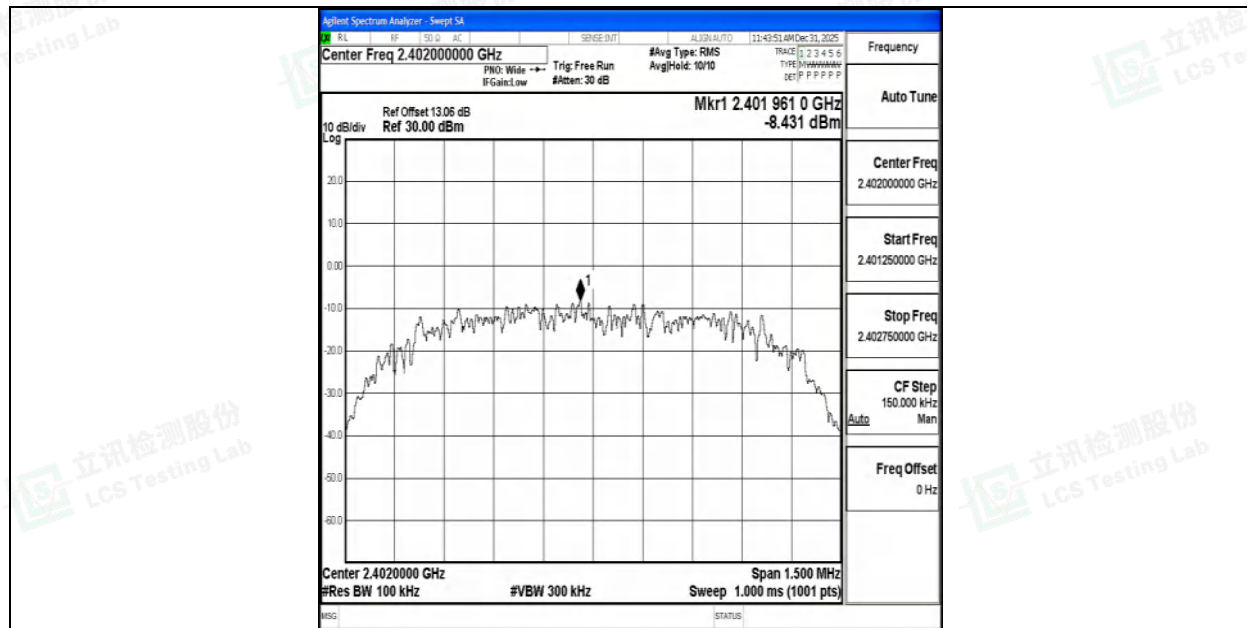


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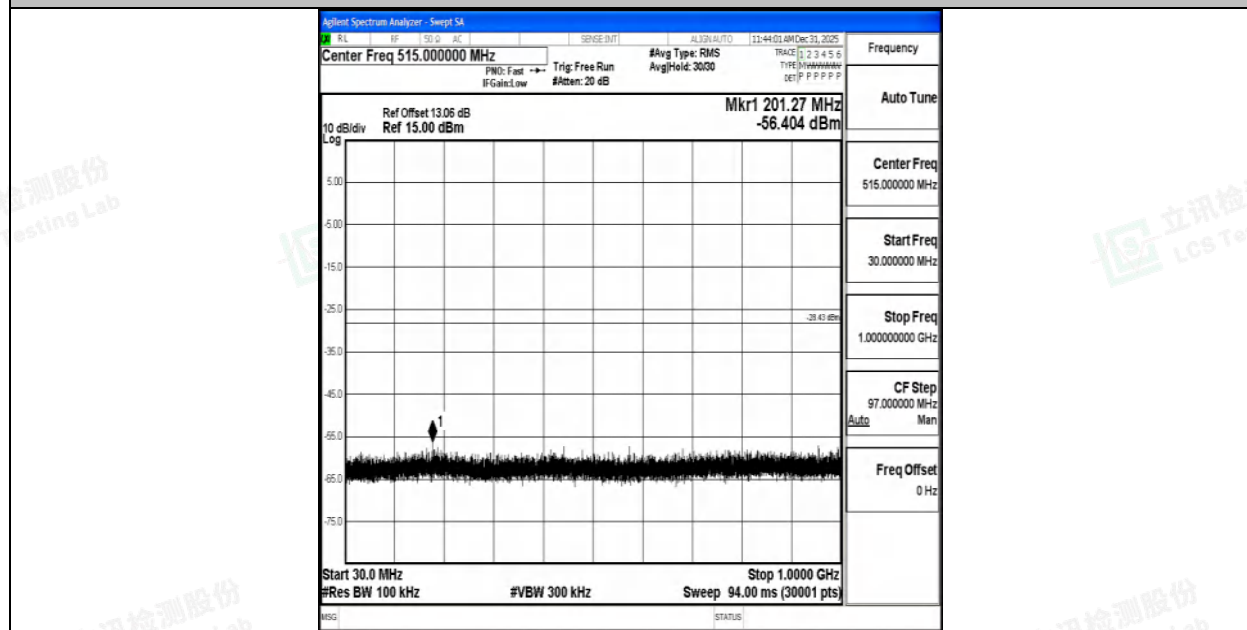
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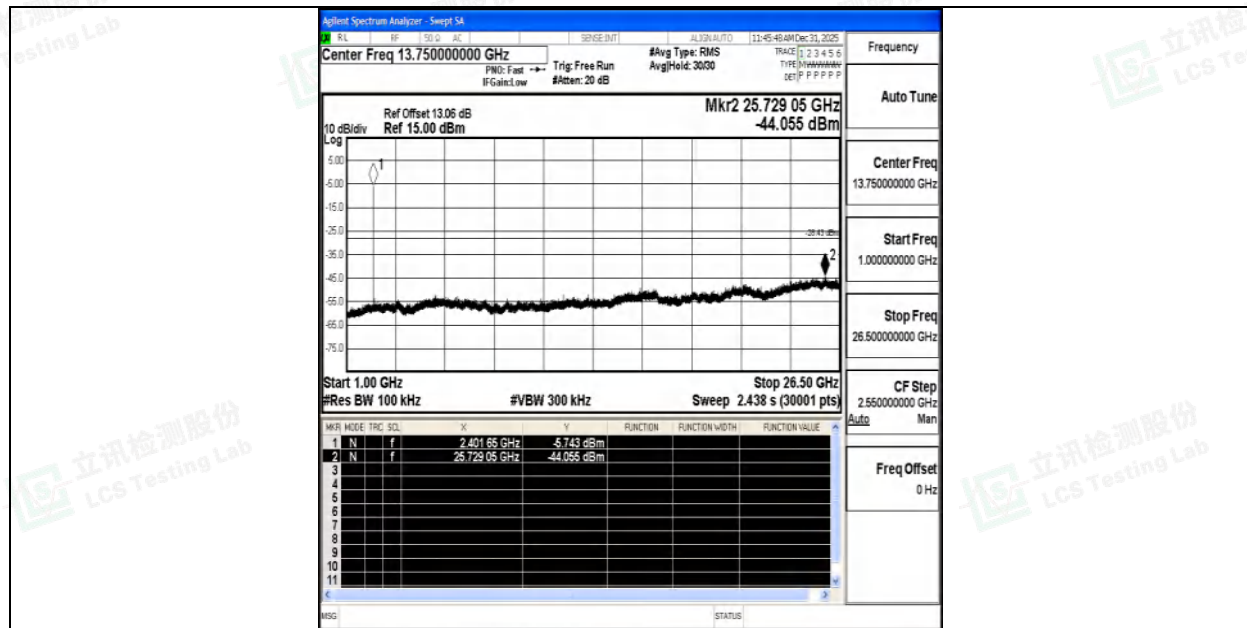


3DH5-Ant1-2402-0~Reference-PASS

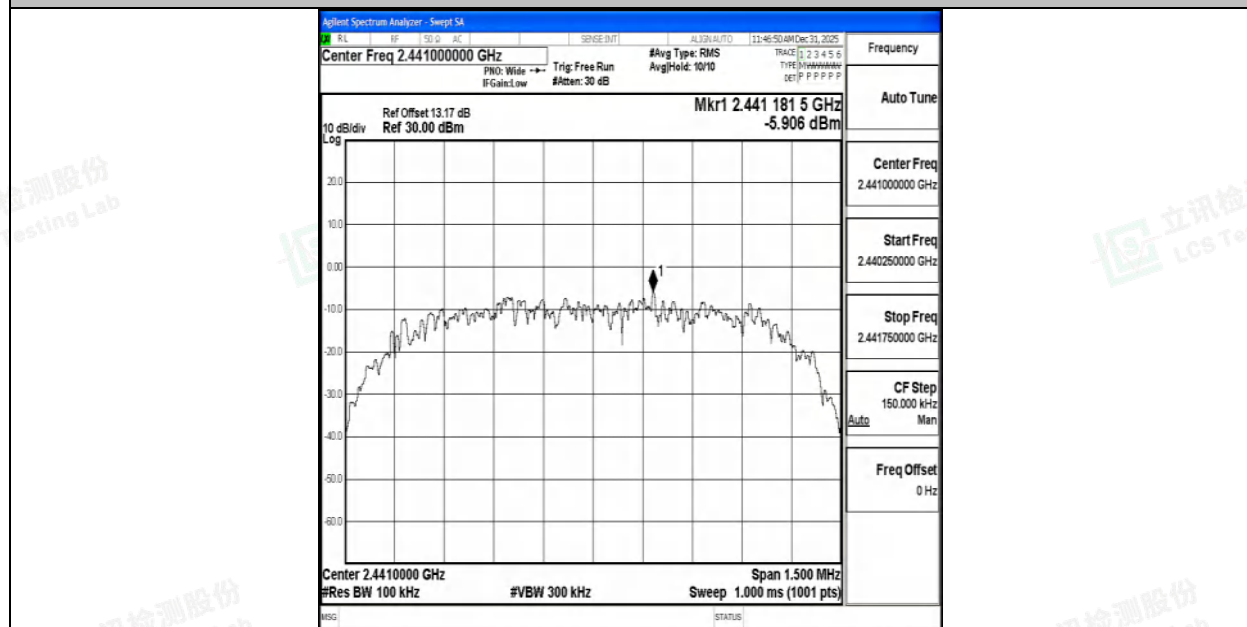


3DH5-Ant1-2402-30~1000-PASS



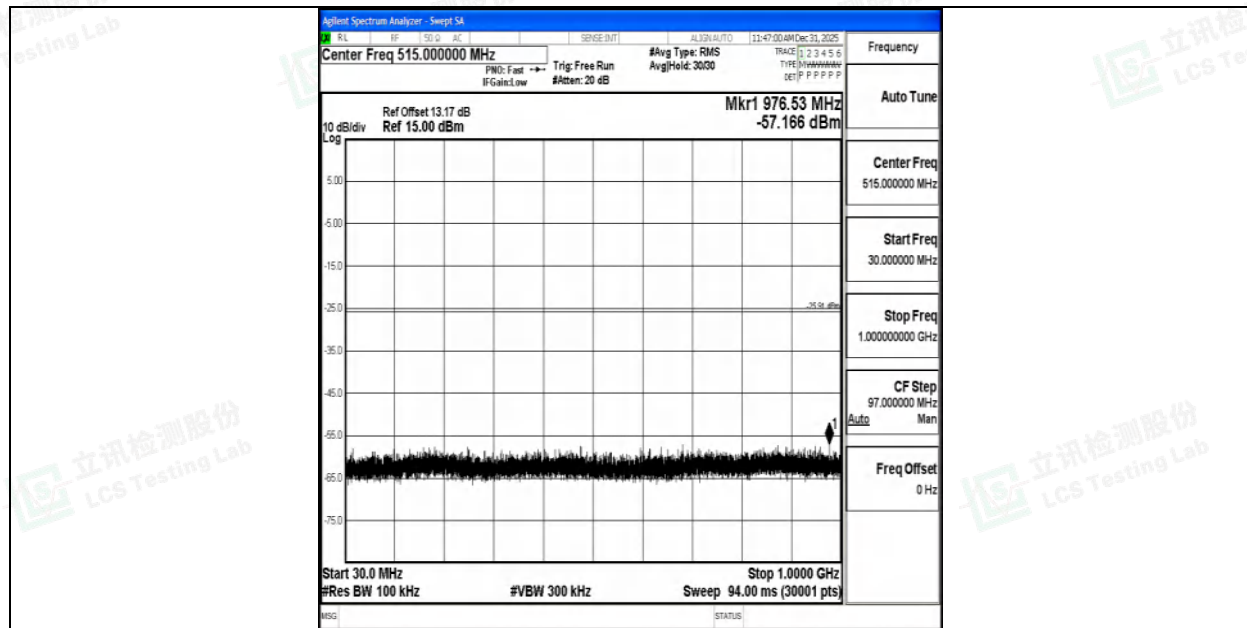


3DH5-Ant1-2402-1000~26500-PASS

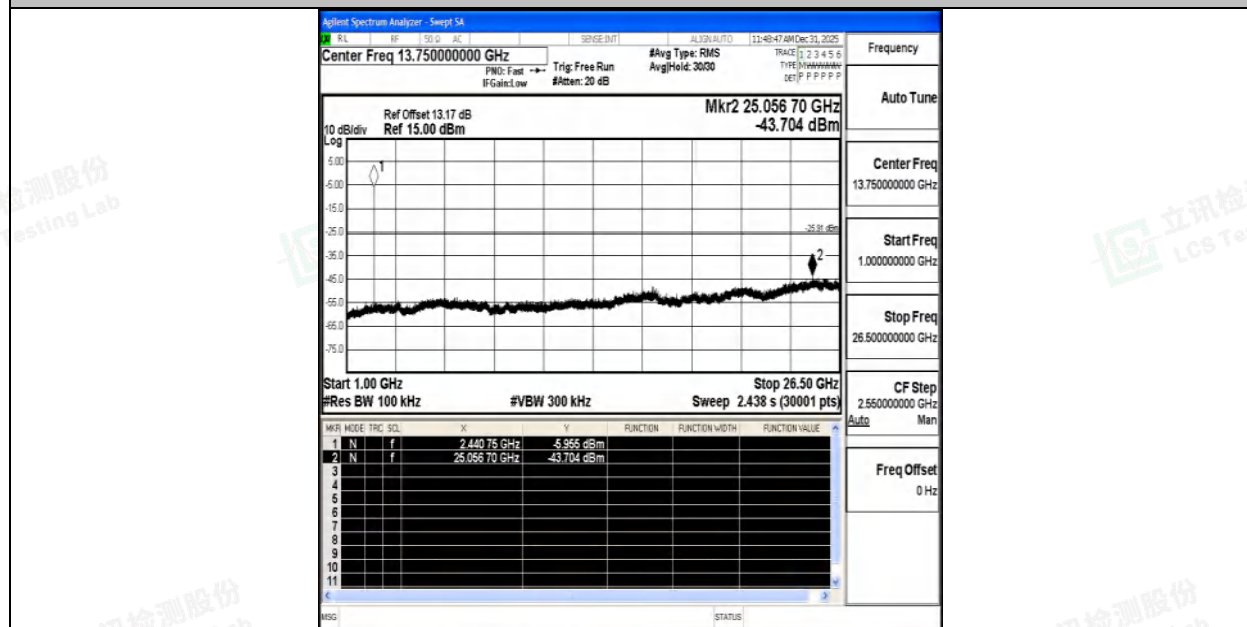


3DH5-Ant1-2441-0~Reference-PASS





3DH5-Ant1-2441-30~1000-PASS



3DH5-Ant1-2441-1000~26500-PASS

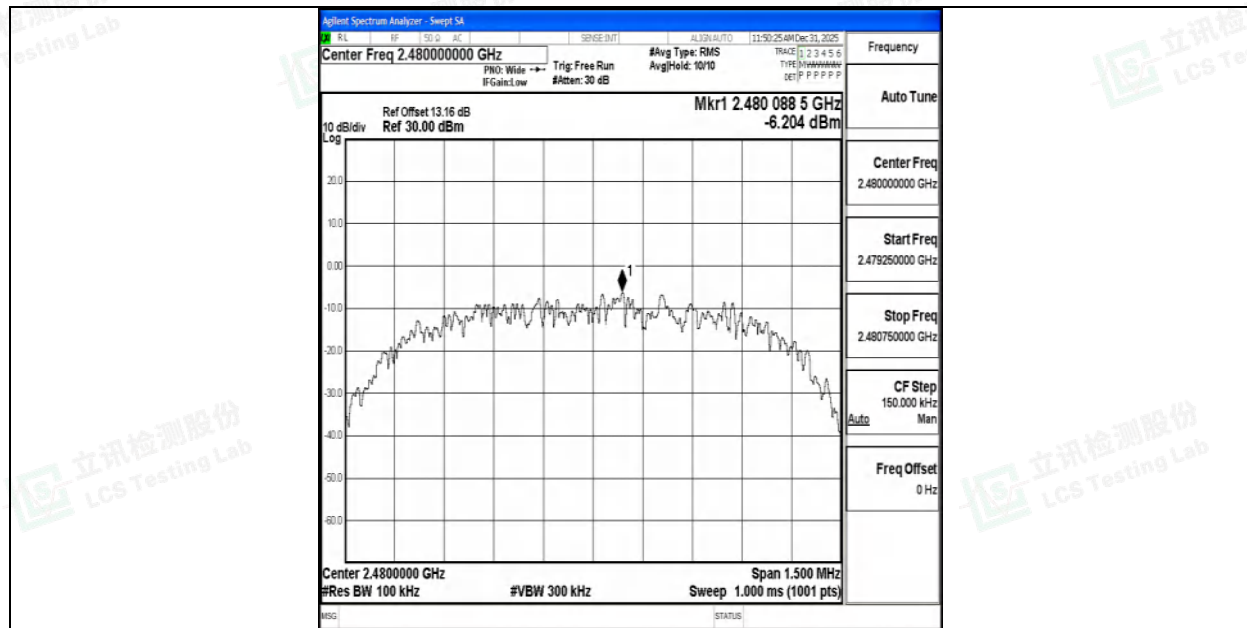


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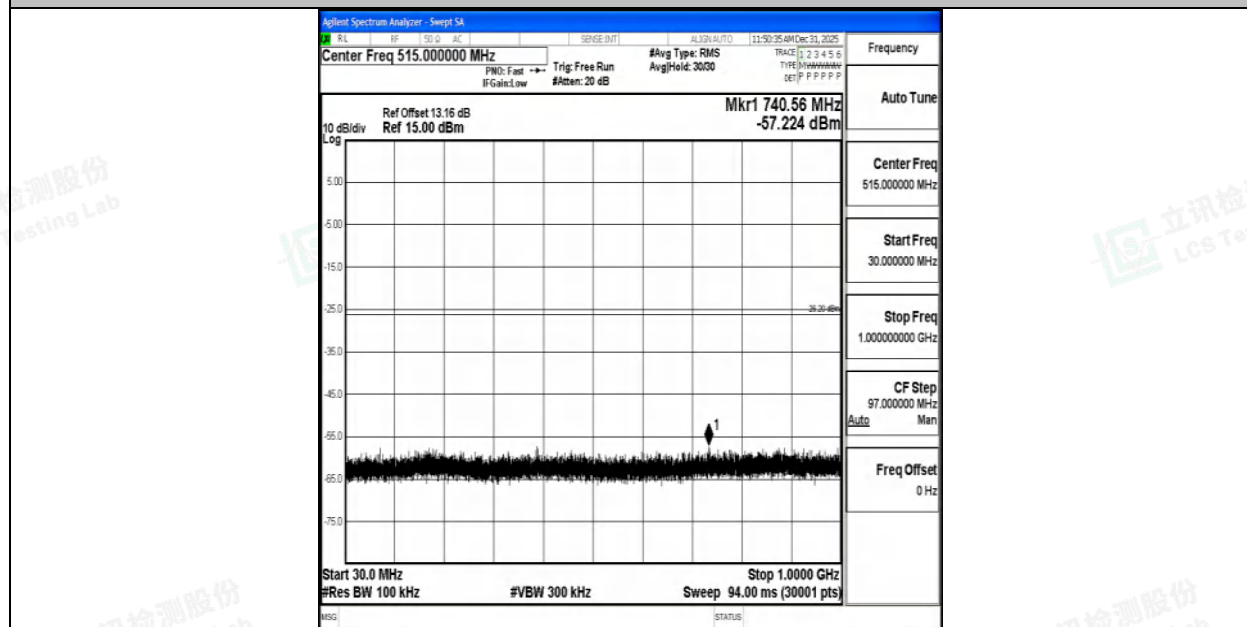
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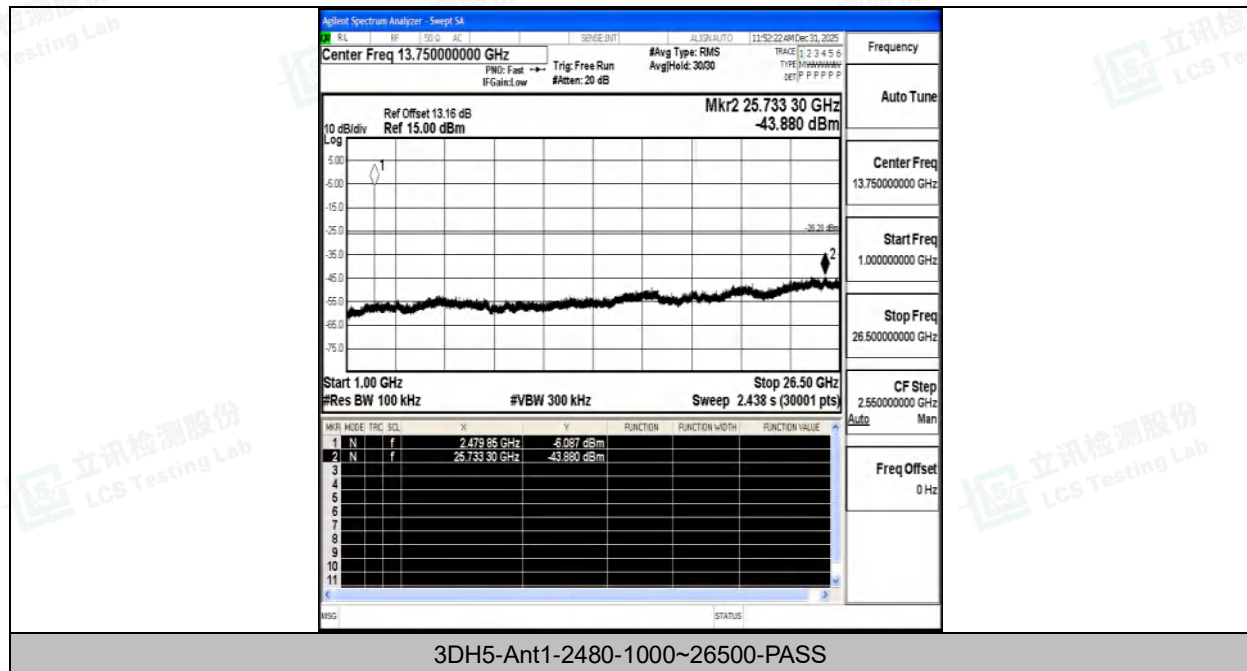


3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS





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A.8 Duty Cycle

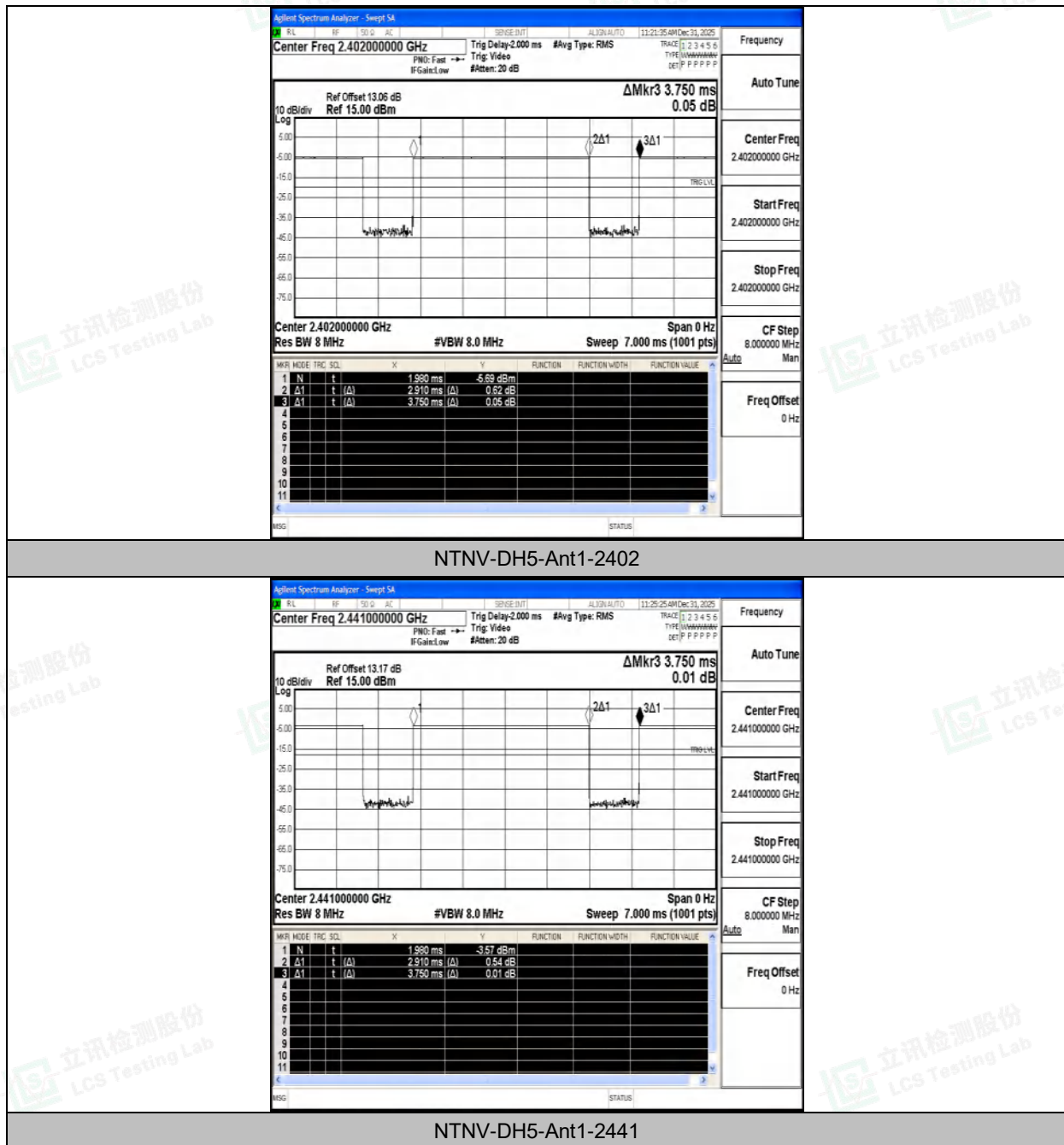
Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.91	3.75	77.60	1.10
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	0.14	0.14	100.00	0.00
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	0.14	0.15	93.33	0.30
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	0.14	0.14	100.00	0.00





Test Graphs

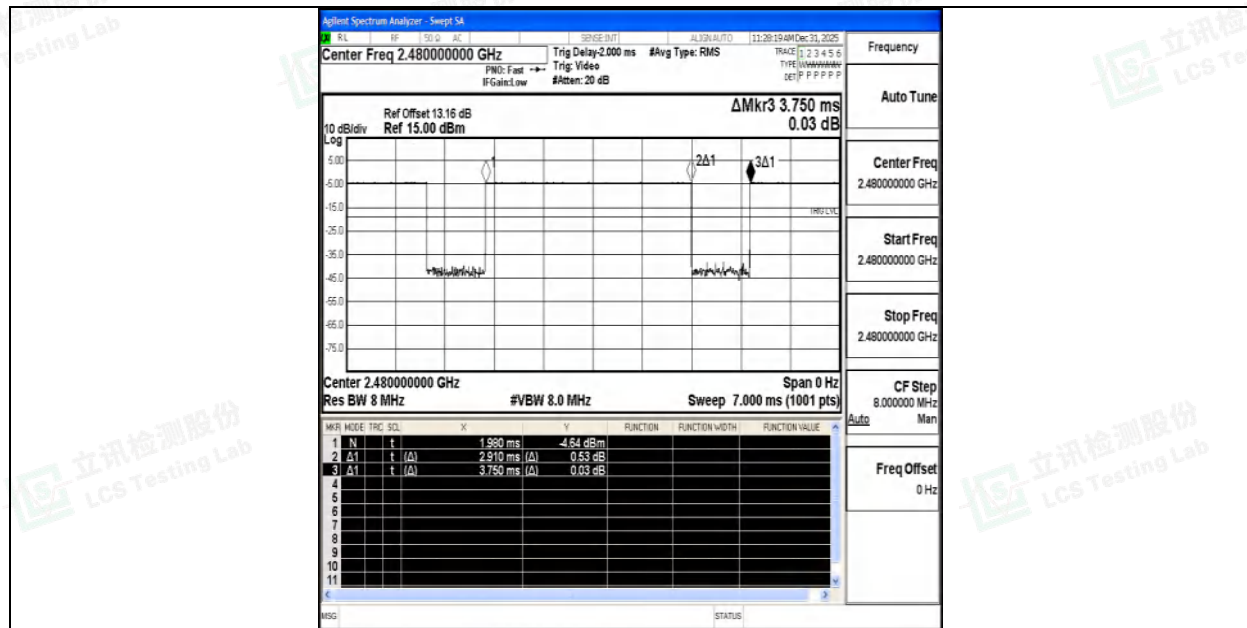


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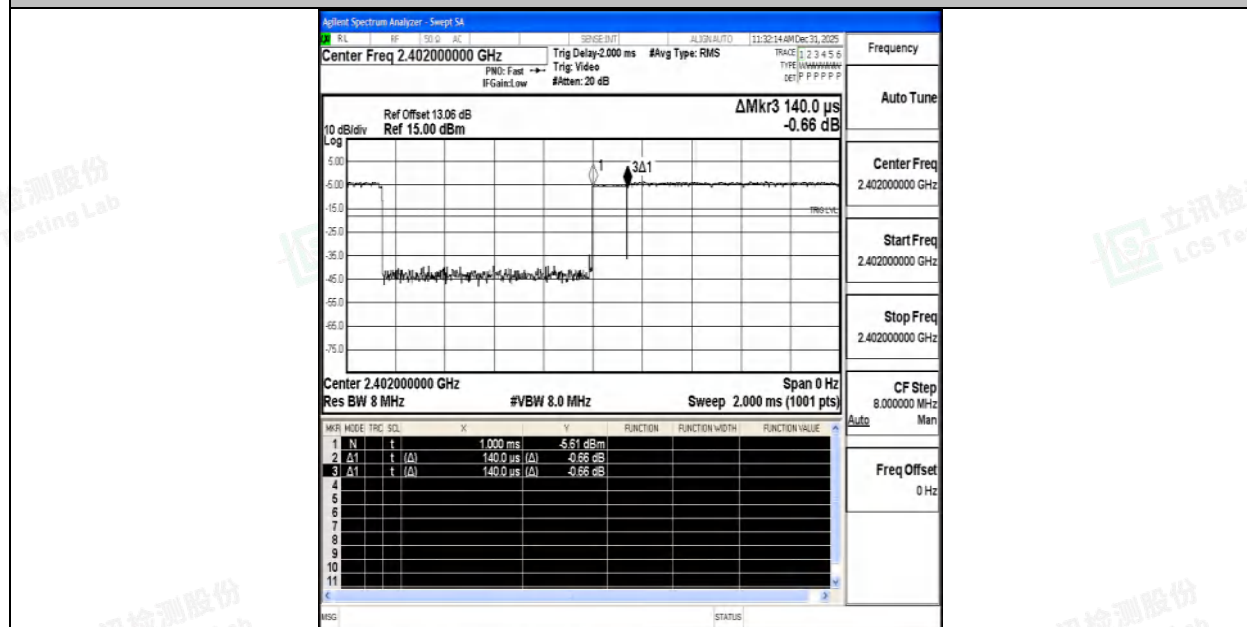
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NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402

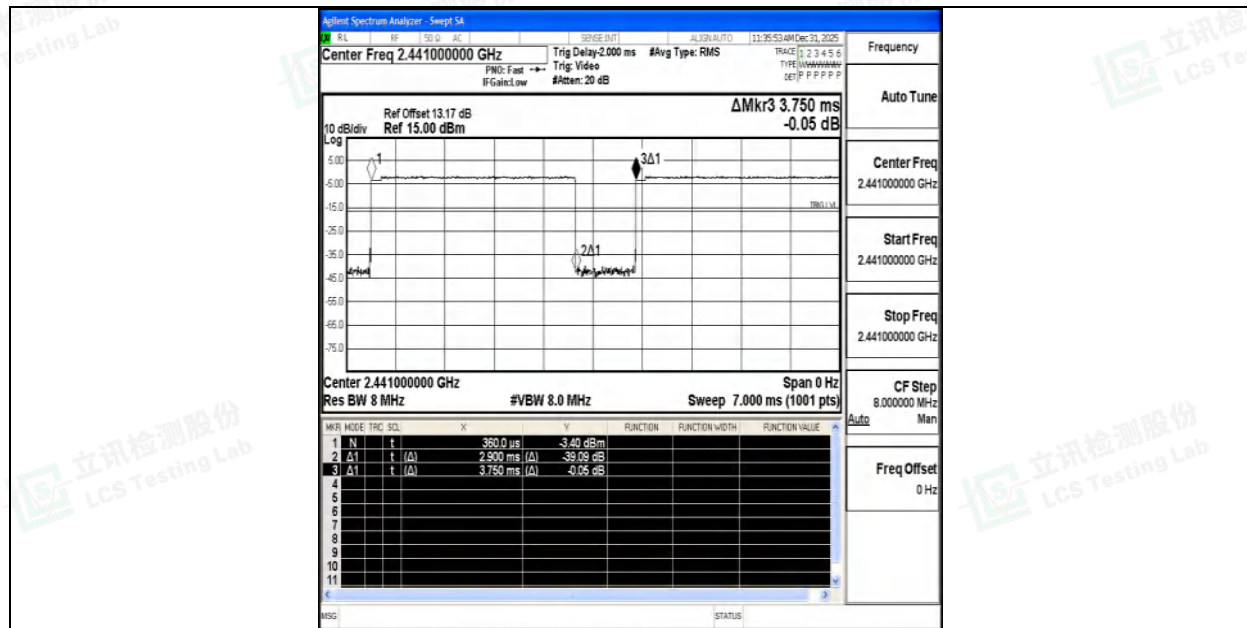


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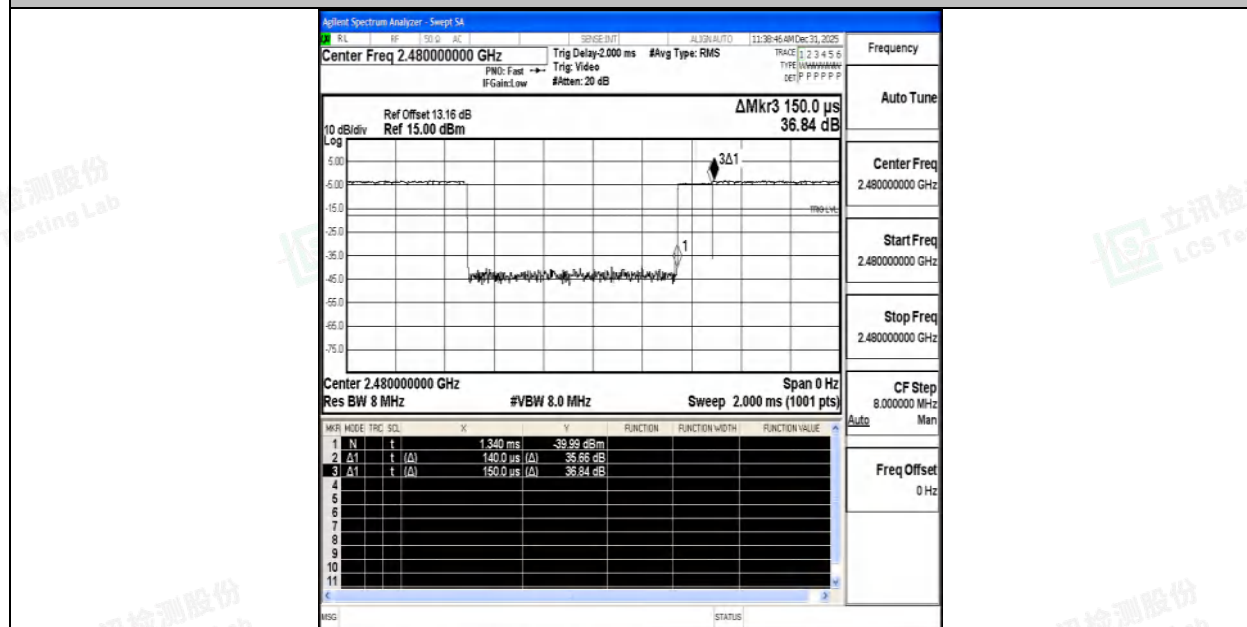
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480

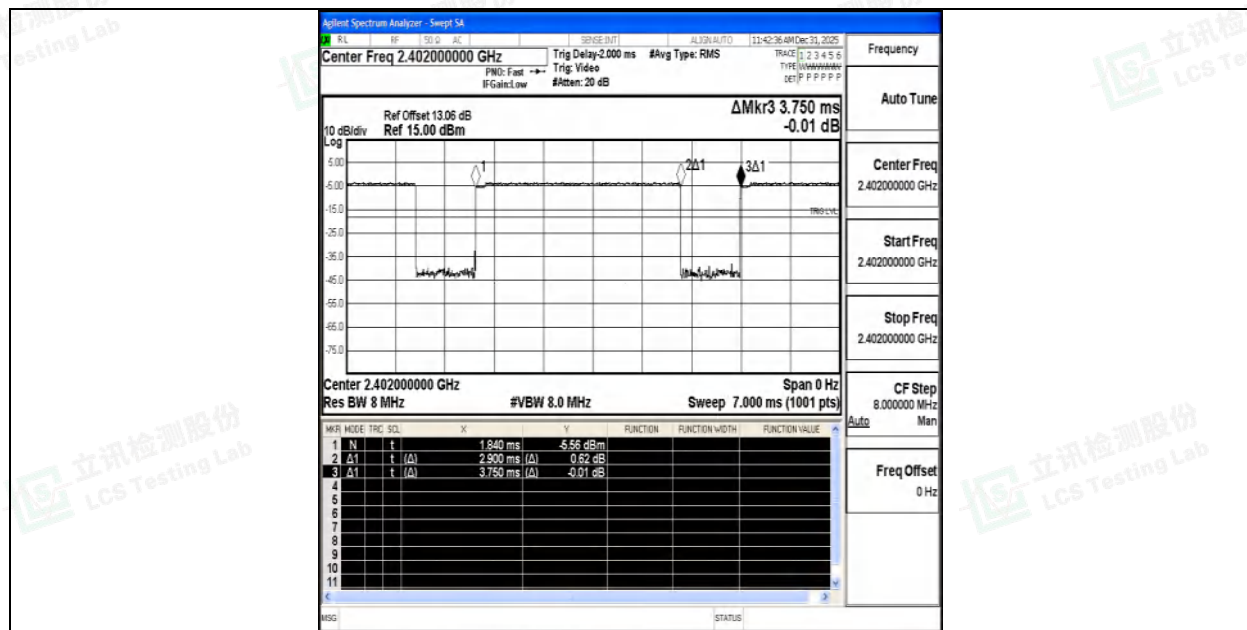


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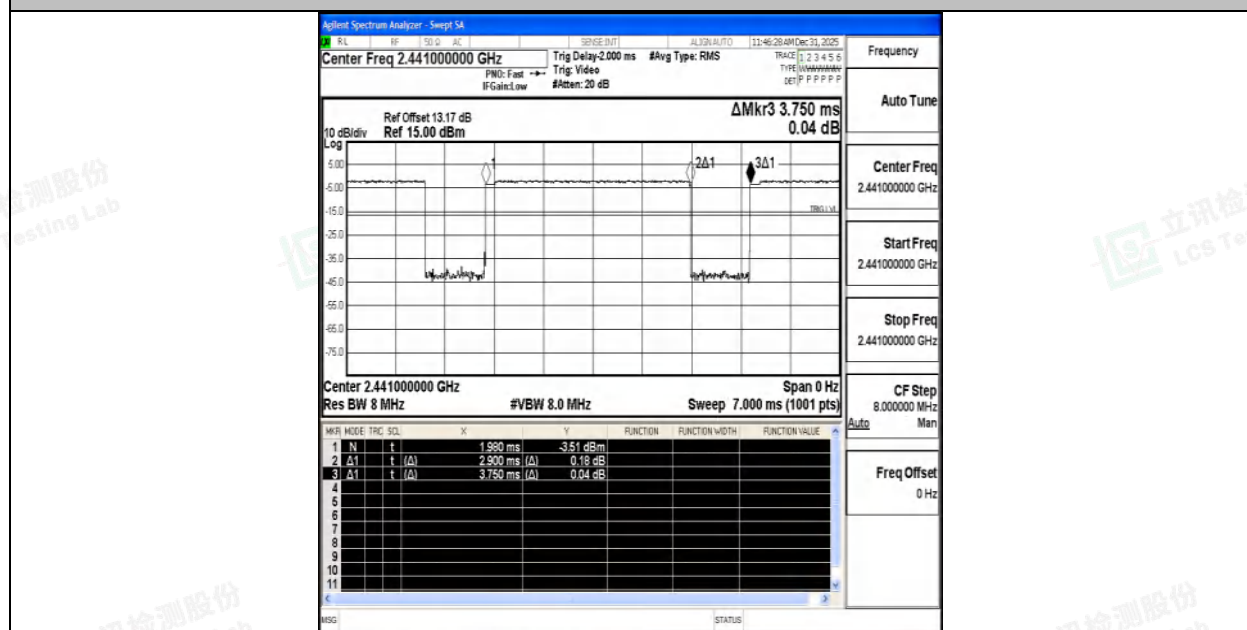
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NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

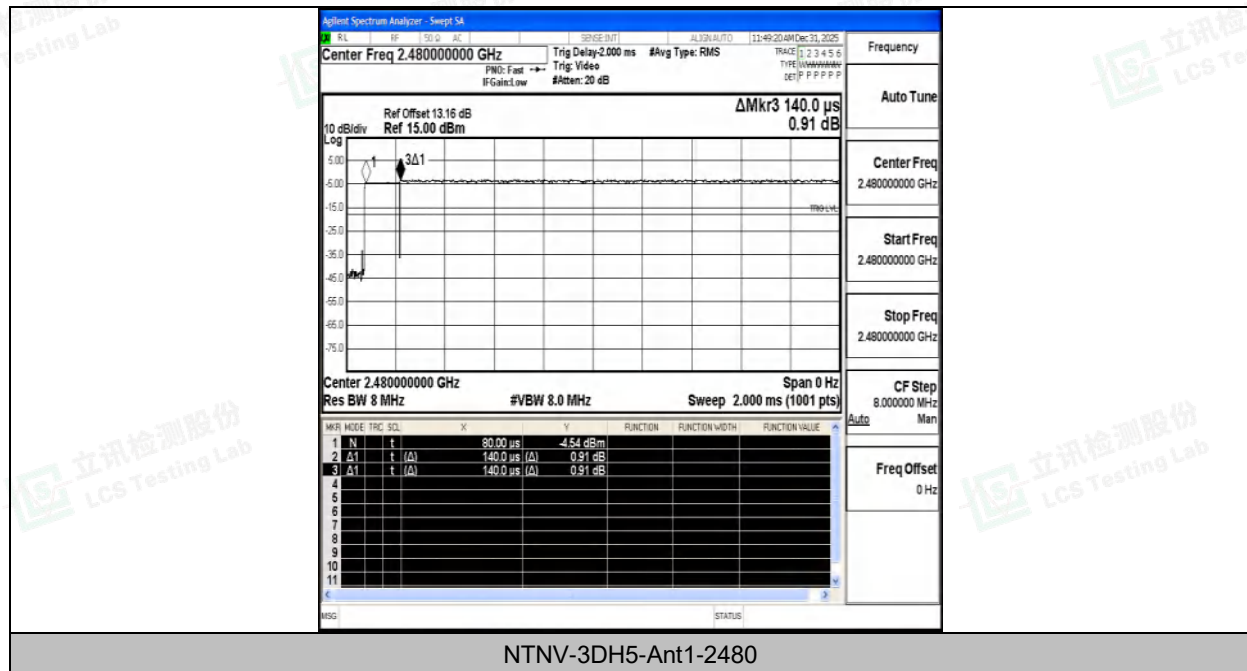


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-36.51	≤-21.20	58.69	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-36.72	≤-21.20	58.48	≤74	PASS
DH5	Ant1	Low	2402	Peak	2382.110	-33.98	≤-21.20	61.22	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-45.71	≤-41.20	49.49	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-46.19	≤-41.20	49.01	≤54	PASS
DH5	Ant1	Low	2402	AV	2384.840	-45.68	≤-41.20	49.52	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-36.62	≤-21.20	58.58	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-35.58	≤-21.20	59.62	≤74	PASS
DH5	Ant1	High	2480	Peak	2495.200	-34.58	≤-21.20	60.62	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-46	≤-41.20	49.20	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-45.89	≤-41.20	49.31	≤54	PASS
DH5	Ant1	High	2480	AV	2496.160	-45.84	≤-41.20	49.36	≤54	PASS
DH5	Ant1	Low	Hop_2402	Peak	2390.000	-36.07	≤-21.20	59.13	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2310.000	-37.12	≤-21.20	58.08	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2375.495	-33.69	≤-21.20	61.51	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2483.500	-36.4	≤-21.20	58.80	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2500.000	-36.65	≤-21.20	58.55	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2496.400	-34.26	≤-21.20	60.94	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-36.07	≤-21.20	59.13	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-38.31	≤-21.20	56.89	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2377.700	-34.81	≤-21.20	60.39	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-46.02	≤-41.20	49.18	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-46.63	≤-41.20	48.57	≤54	PASS
2DH5	Ant1	Low	2402	AV	2387.045	-45.7	≤-41.20	49.50	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-35.84	≤-21.20	59.36	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-35.86	≤-21.20	59.34	≤74	PASS
2DH5	Ant1	High	2480	Peak	2485.200	-34.15	≤-21.20	61.05	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-45.97	≤-41.20	49.23	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-45.9	≤-41.20	49.30	≤54	PASS
2DH5	Ant1	High	2480	AV	2494.560	-45.83	≤-41.20	49.37	≤54	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2390.000	-38.44	≤-21.20	56.76	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2310.000	-38.21	≤-21.20	56.99	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2322.260	-34.54	≤-21.20	60.66	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2483.500	-35.1	≤-21.20	60.10	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2500.000	-35.48	≤-21.20	59.72	≤74	PASS



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2DH5	Ant1	High	Hop_2480	Peak	2494.720	-34.07	≤-21.20	61.13	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2390.000	-36	≤-21.20	59.20	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-37.01	≤-21.20	58.19	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2339.060	-33.76	≤-21.20	61.44	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-45.99	≤-41.20	49.21	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-46.46	≤-41.20	48.74	≤54	PASS
3DH5	Ant1	Low	2402	AV	2388.830	-45.87	≤-41.20	49.33	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-36.96	≤-21.20	58.24	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-37.37	≤-21.20	57.83	≤74	PASS
3DH5	Ant1	High	2480	Peak	2496.880	-34.28	≤-21.20	60.92	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-46.12	≤-41.20	49.08	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-45.77	≤-41.20	49.43	≤54	PASS
3DH5	Ant1	High	2480	AV	2498.400	-45.59	≤-41.20	49.61	≤54	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2390.000	-34.25	≤-21.20	60.95	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2310.000	-36.15	≤-21.20	59.05	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2342.420	-33.59	≤-21.20	61.61	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2483.500	-38	≤-21.20	57.20	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2500.000	-36.83	≤-21.20	58.37	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2490.560	-34.86	≤-21.20	60.34	≤74	PASS

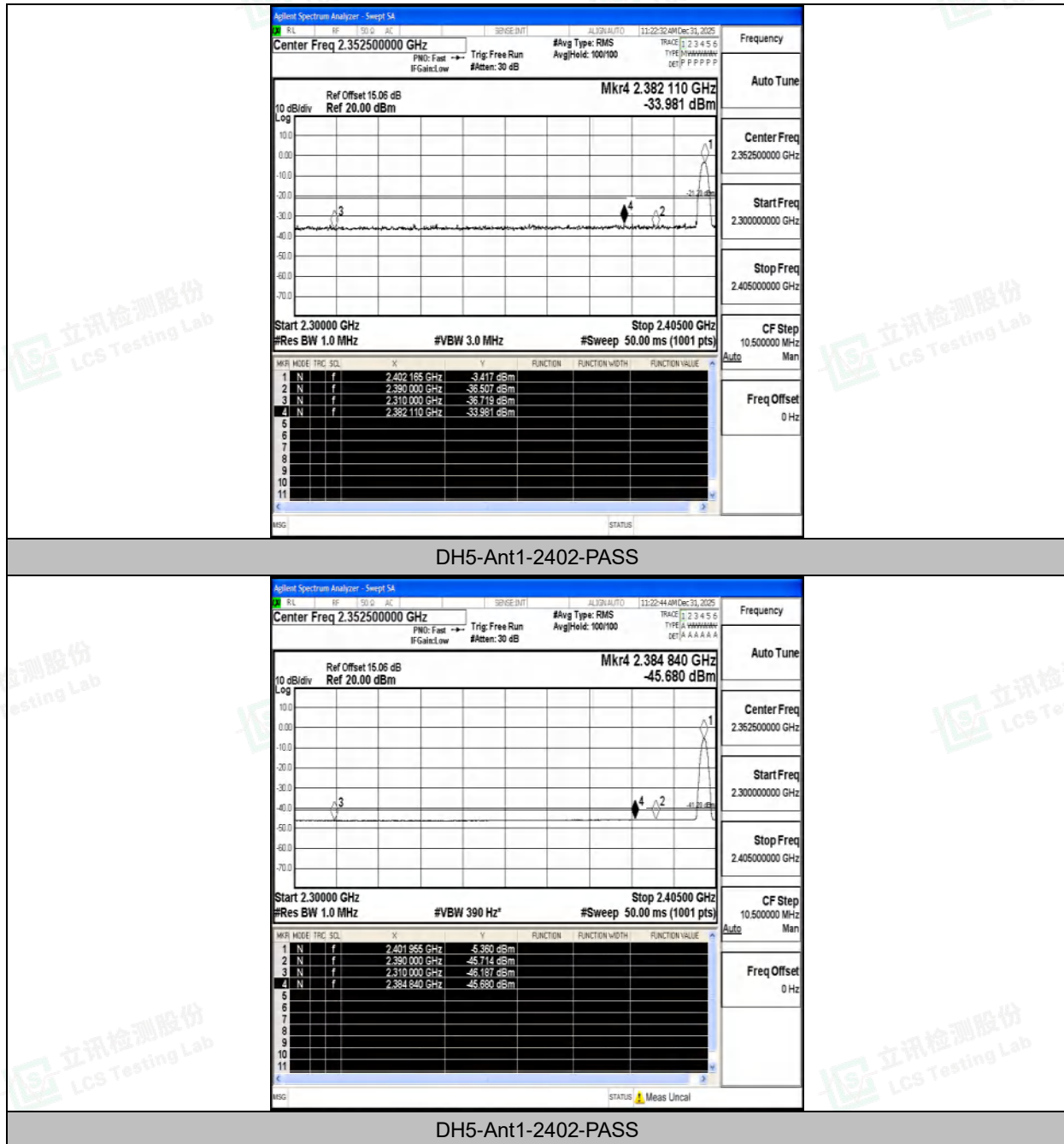
Note:

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

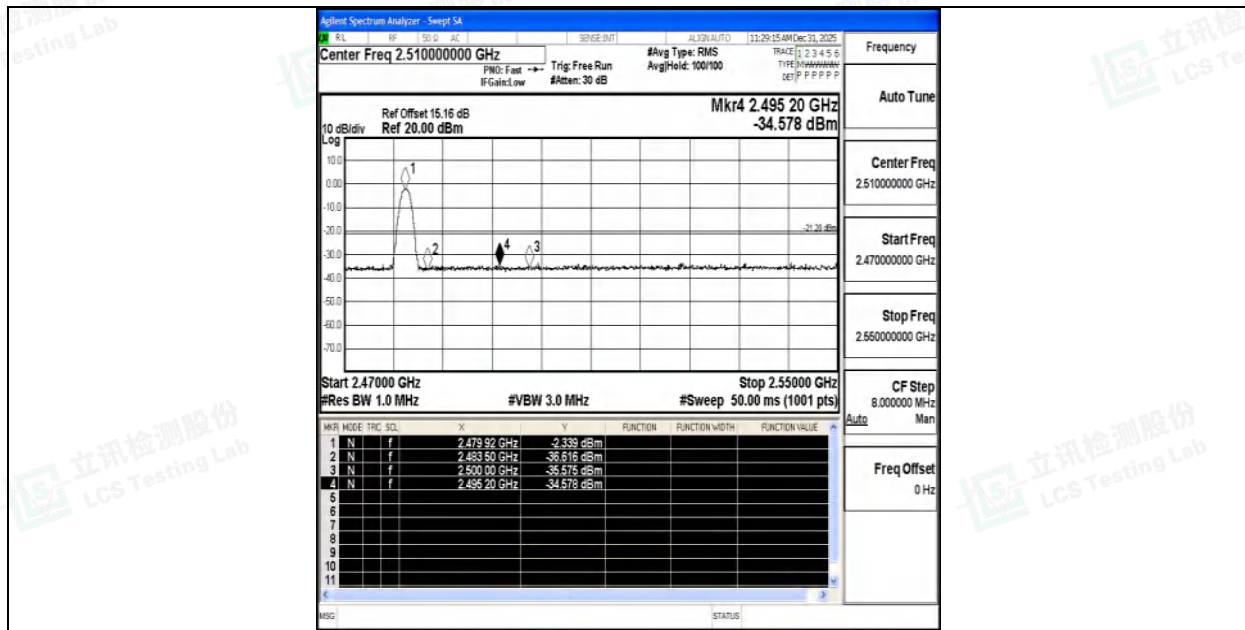


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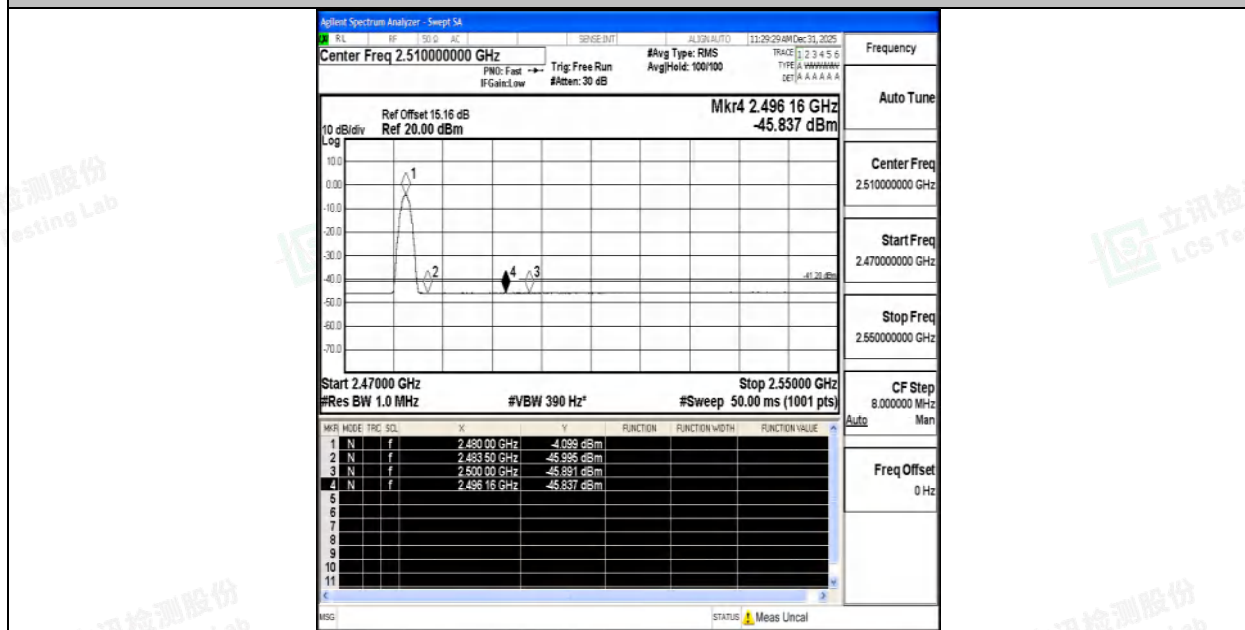
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DH5-Ant1-2480-PASS



DH5-Ant1-2480-PASS

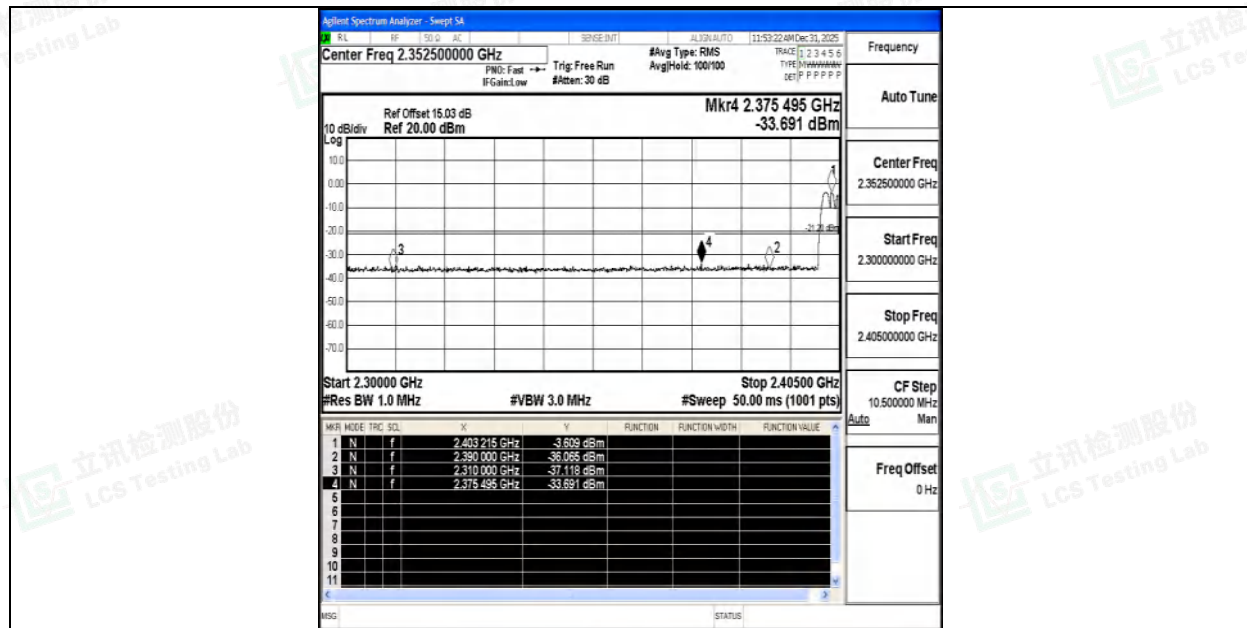


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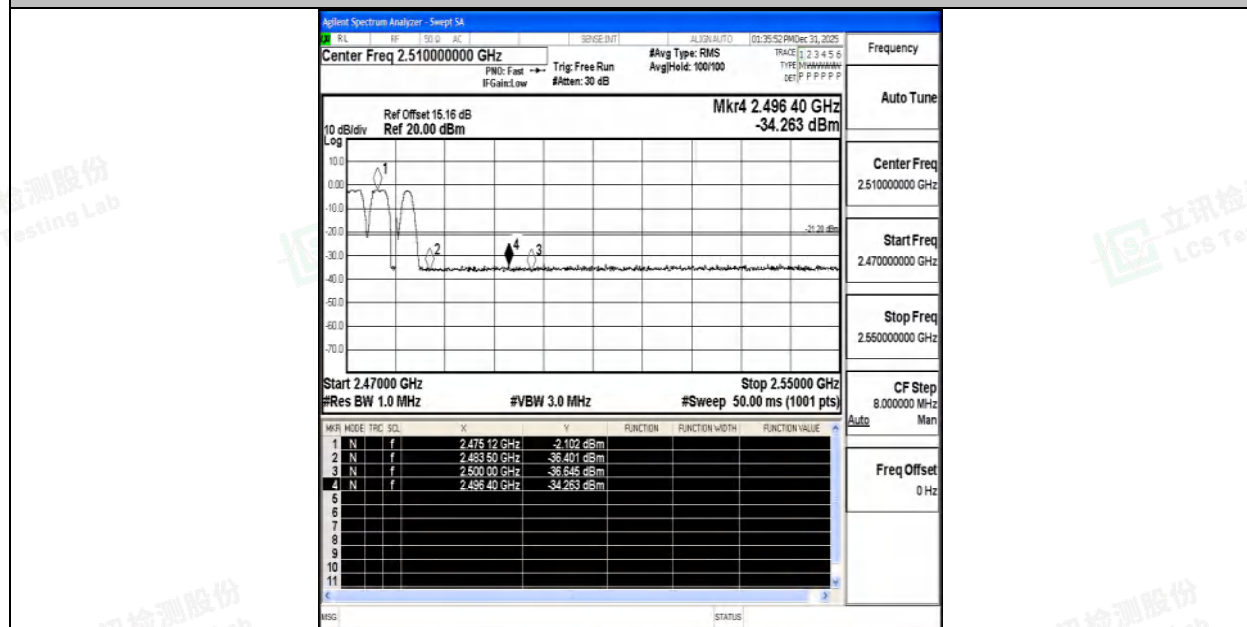
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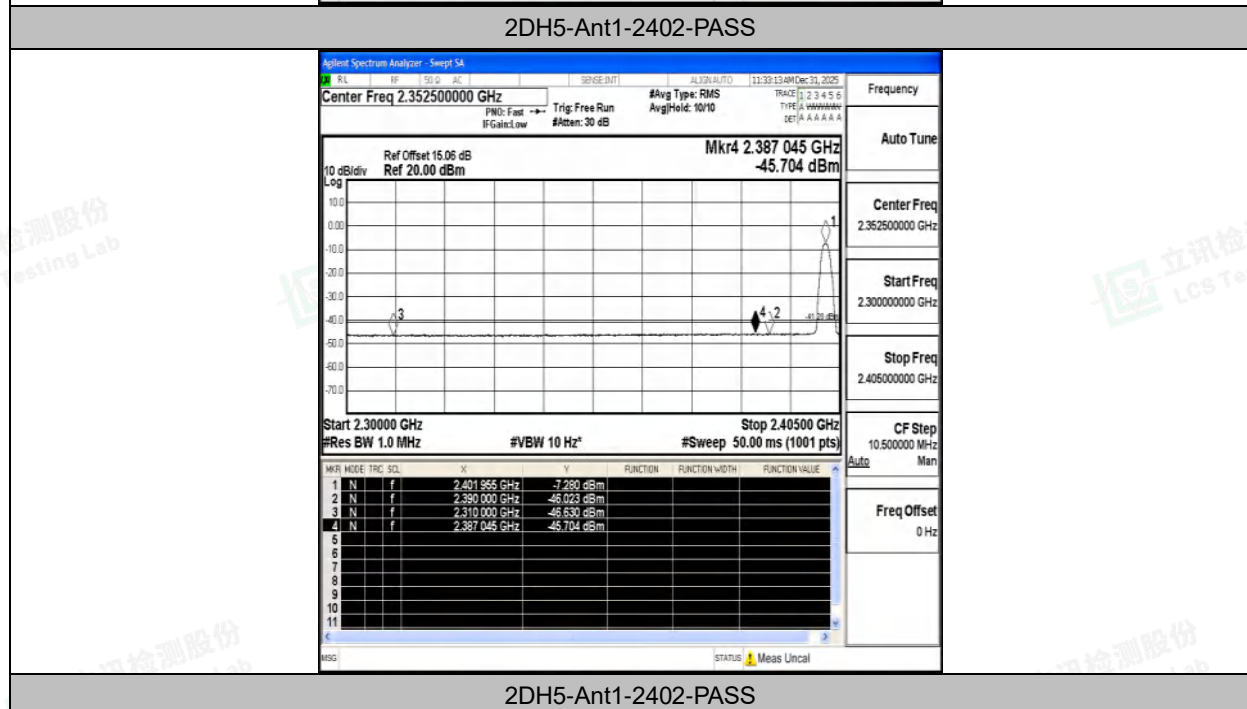
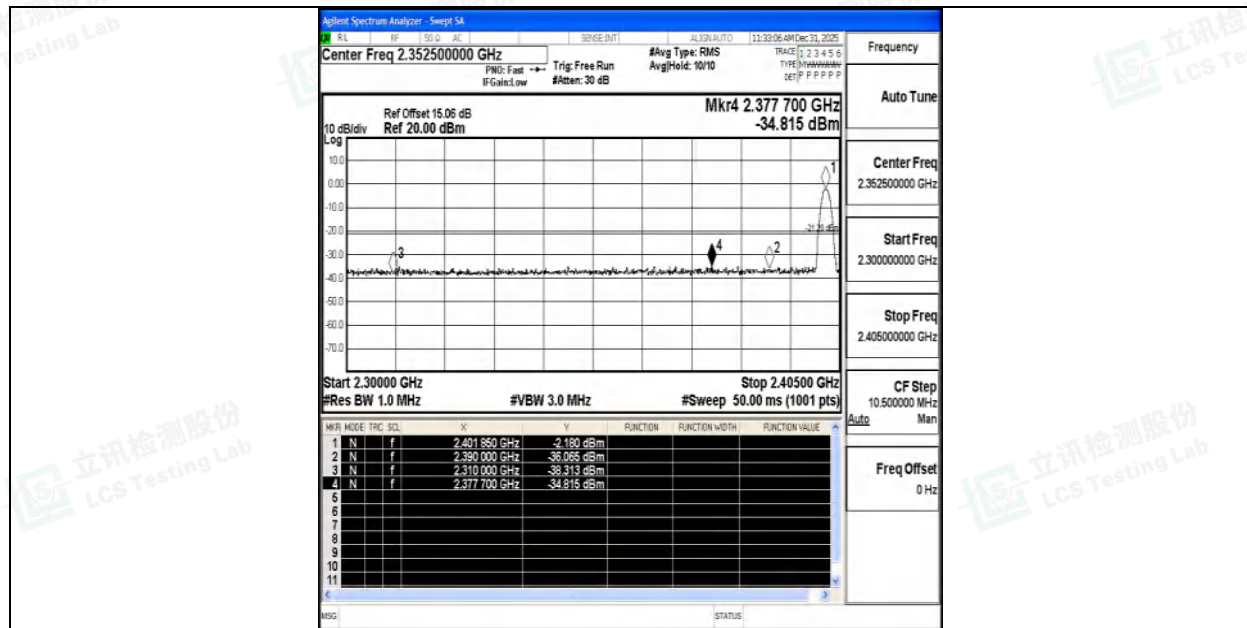


DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS



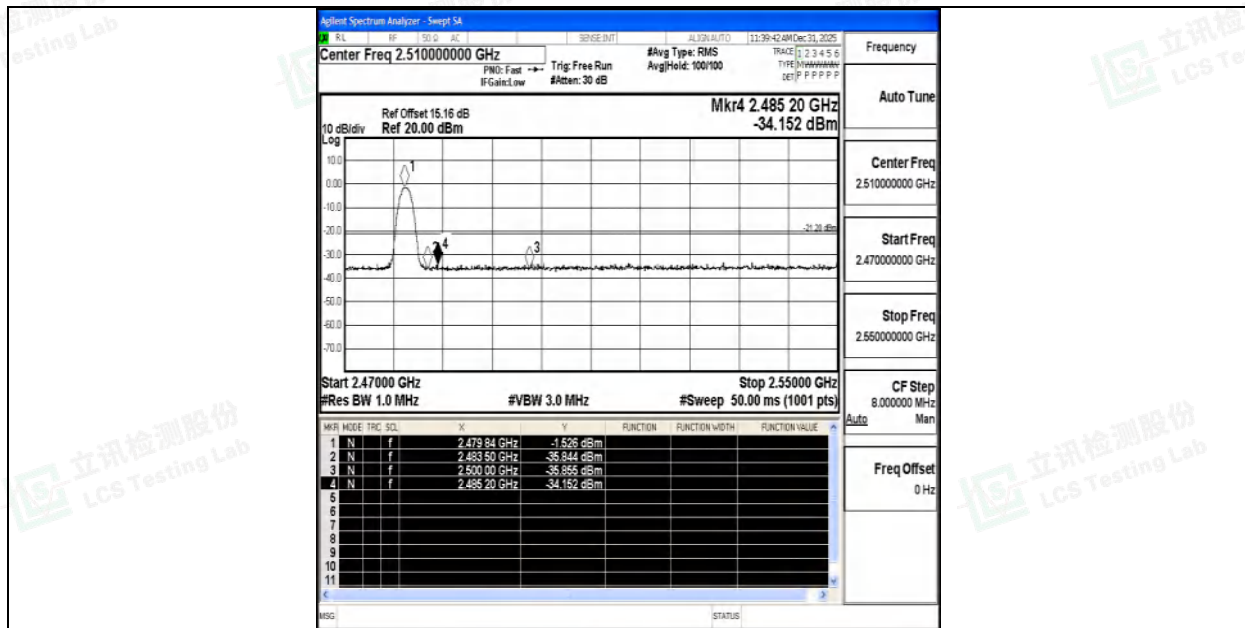


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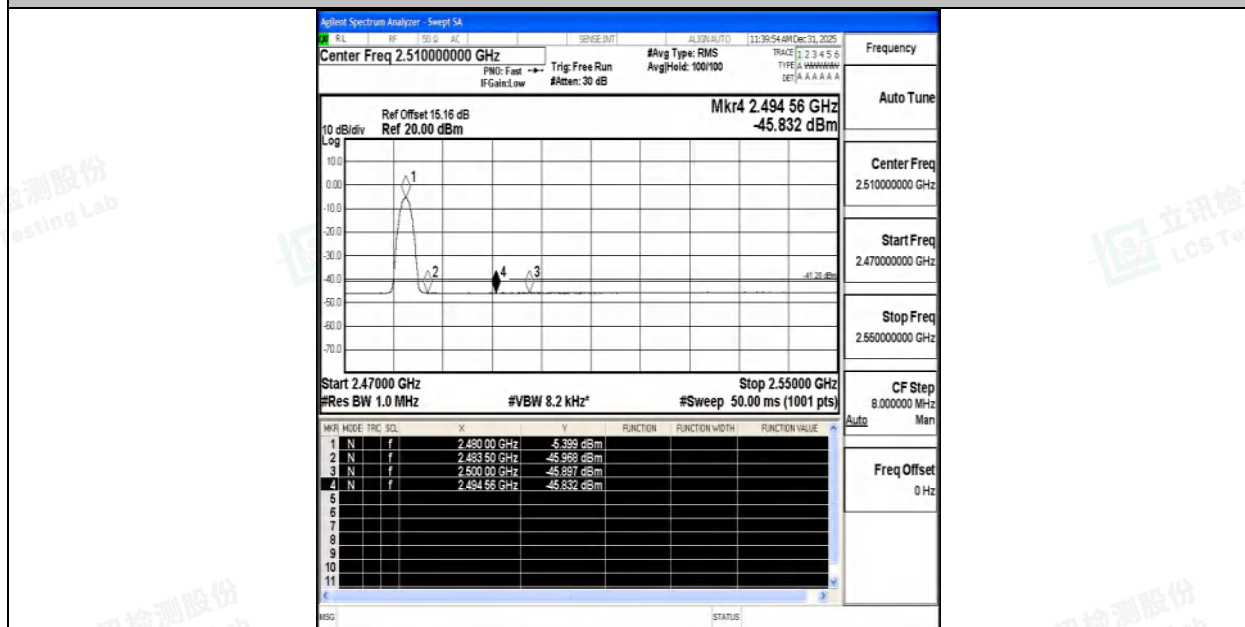
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2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS

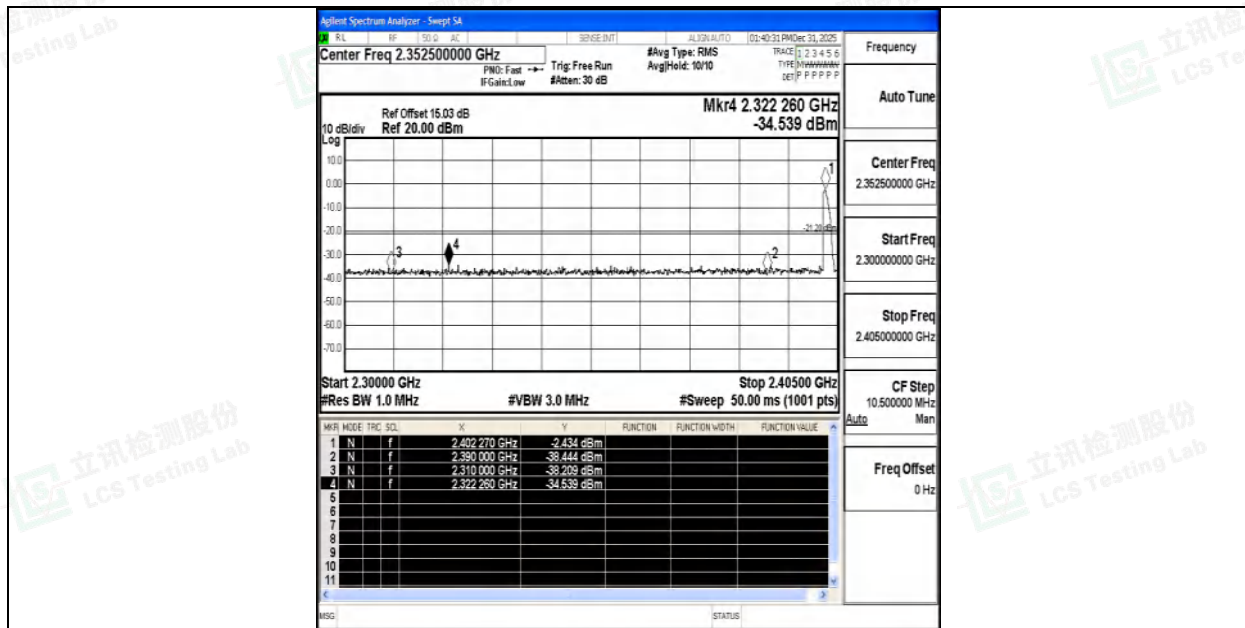


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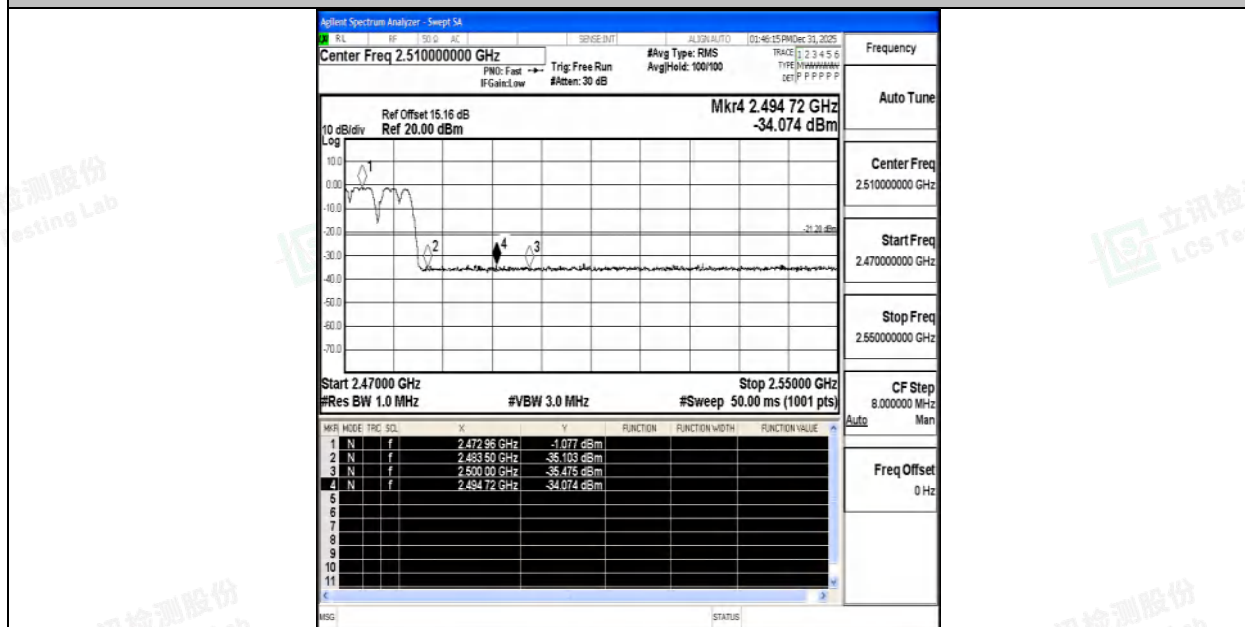
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

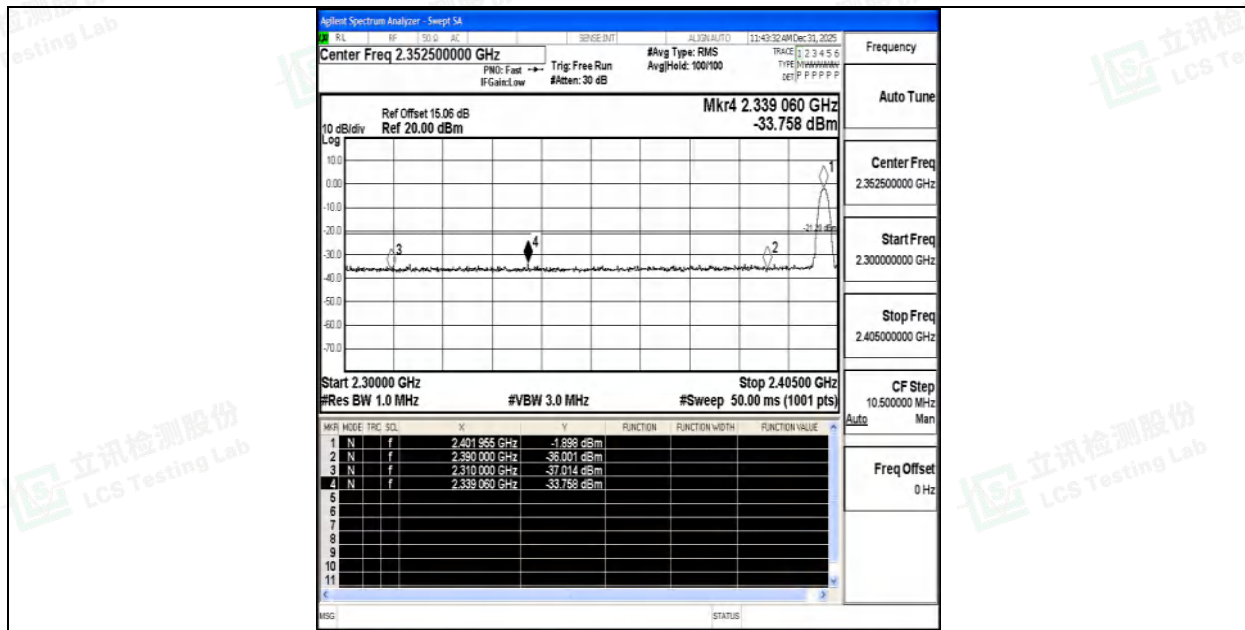


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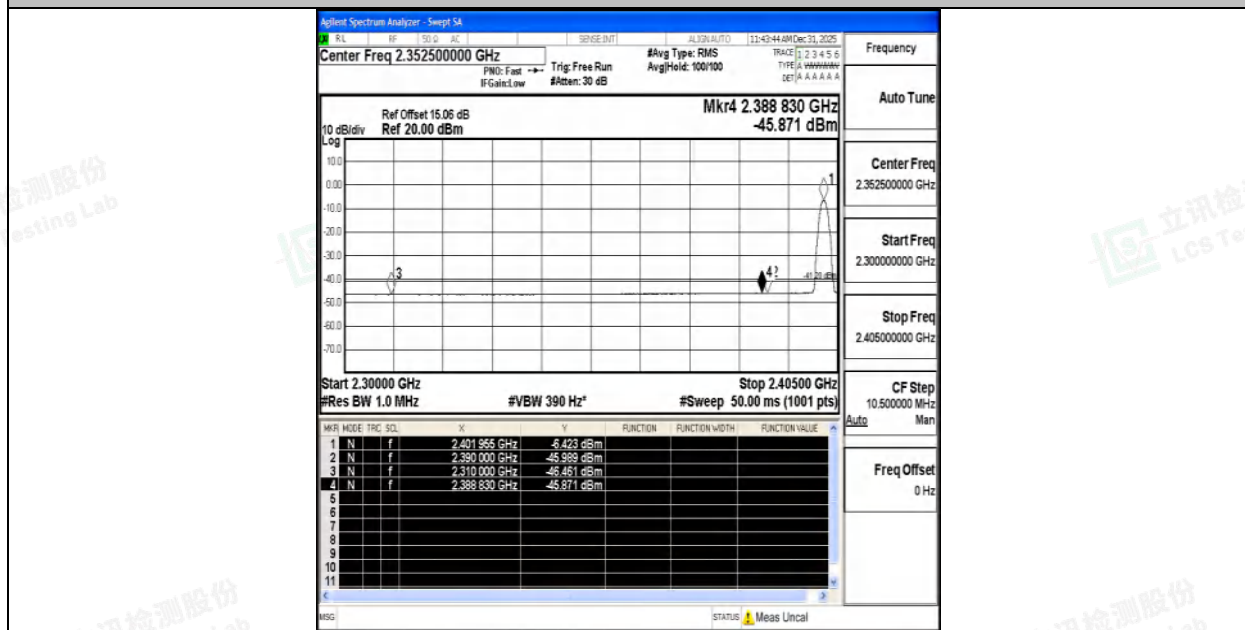
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3DH5-Ant1-2402-PASS



3DH5-Ant1-2402-PASS

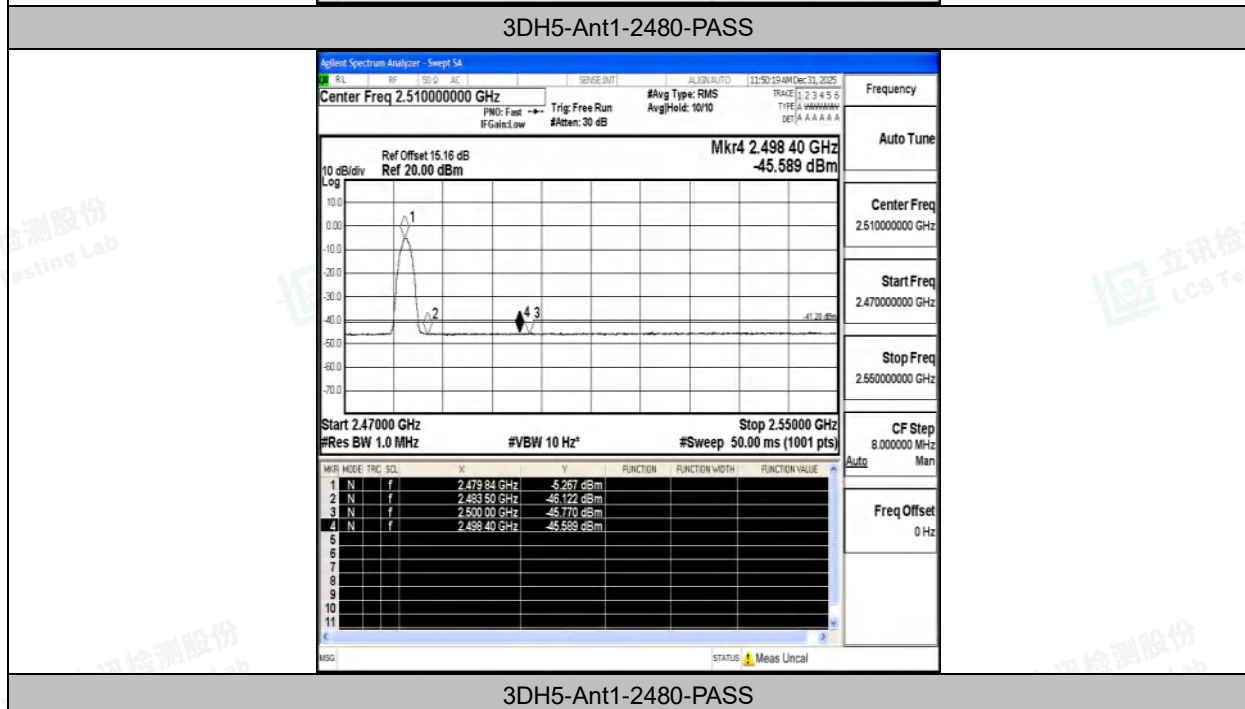
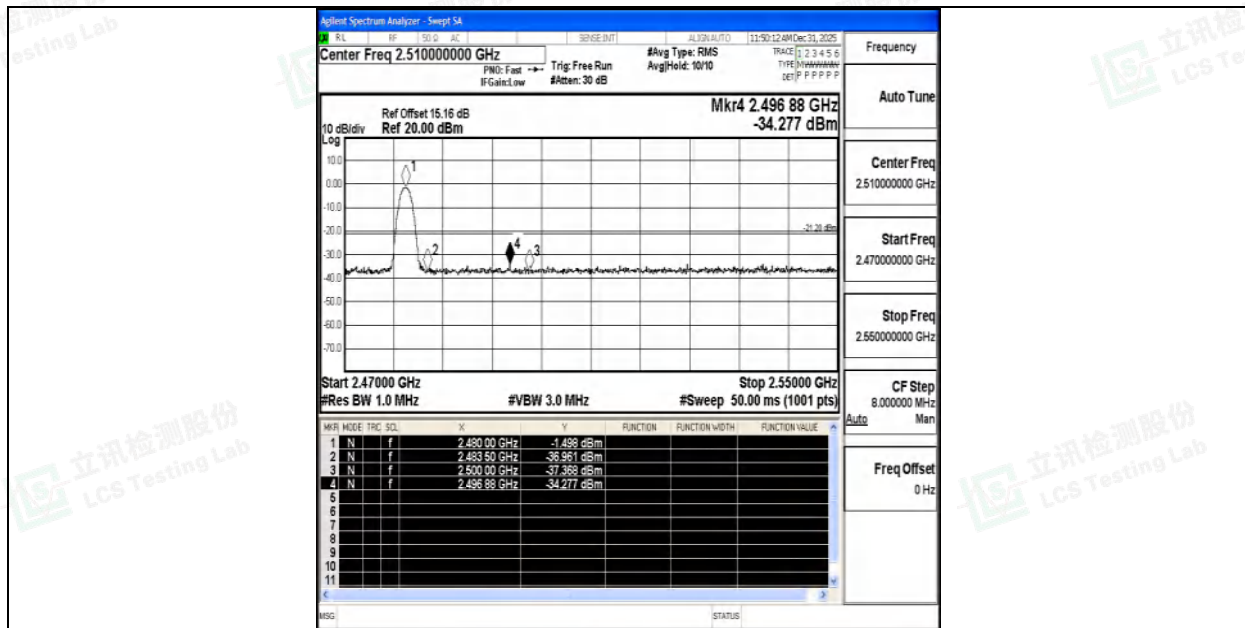


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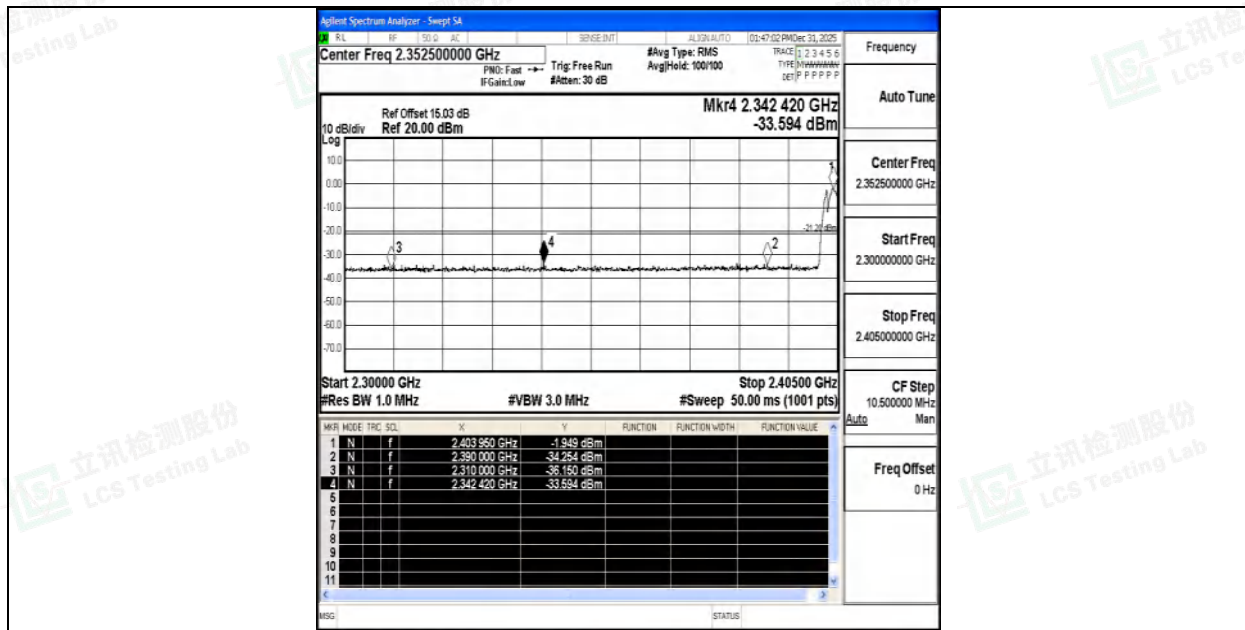


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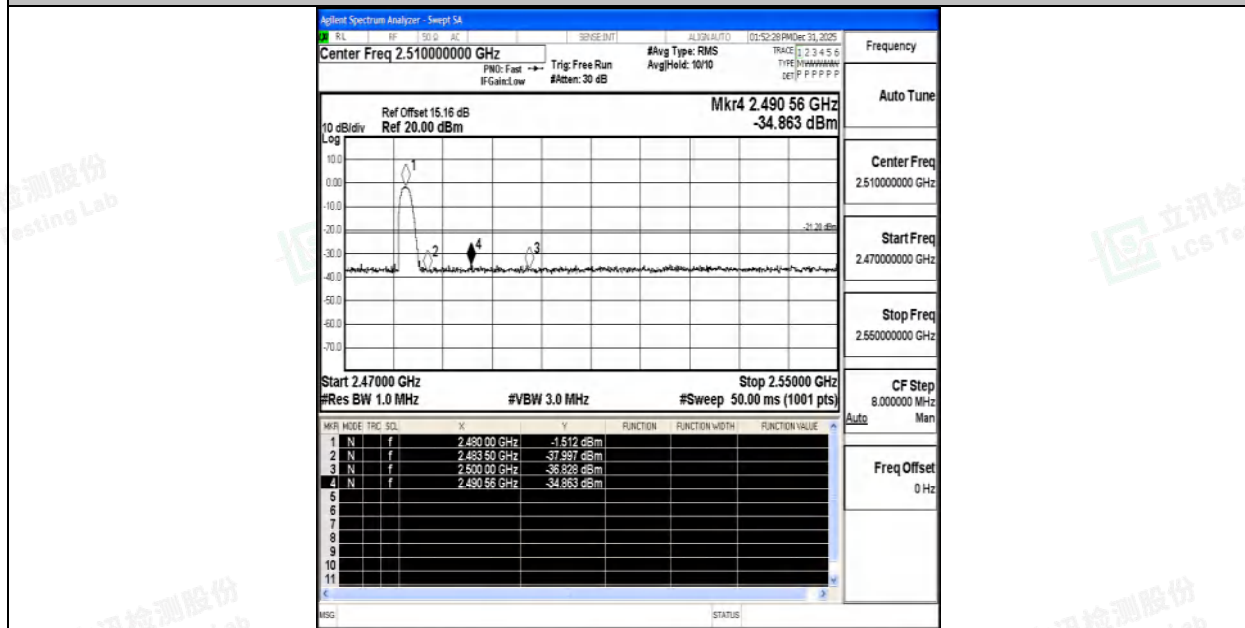
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3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



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