



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AMD R1505G Player

Test Model: SMPA-R1505G

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

Test Result

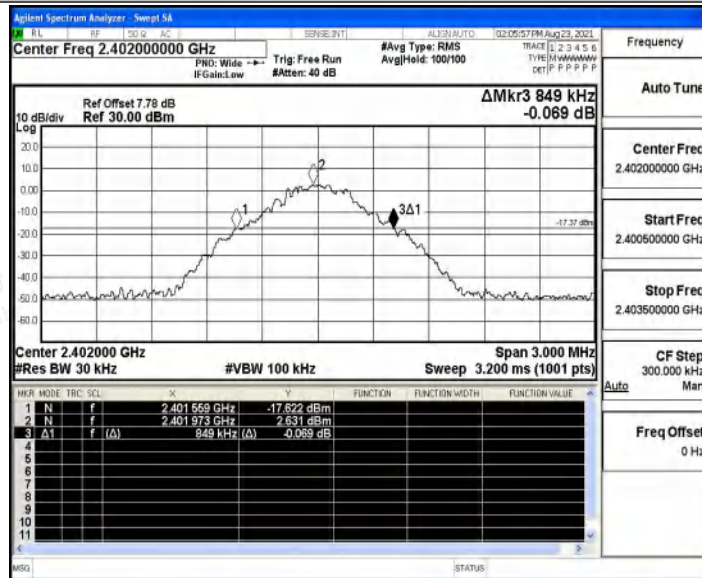
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.849	2401.559	2402.408	---	PASS
		2441	0.852	2440.565	2441.417	---	PASS
		2480	0.855	2479.556	2480.411	---	PASS
2DH5	Ant1	2402	1.278	2401.370	2402.648	---	PASS
		2441	1.269	2440.370	2441.639	---	PASS
		2480	1.296	2479.358	2480.654	---	PASS
3DH5	Ant1	2402	1.296	2401.349	2402.645	---	PASS
		2441	1.302	2440.349	2441.651	---	PASS
		2480	1.269	2479.355	2480.624	---	PASS



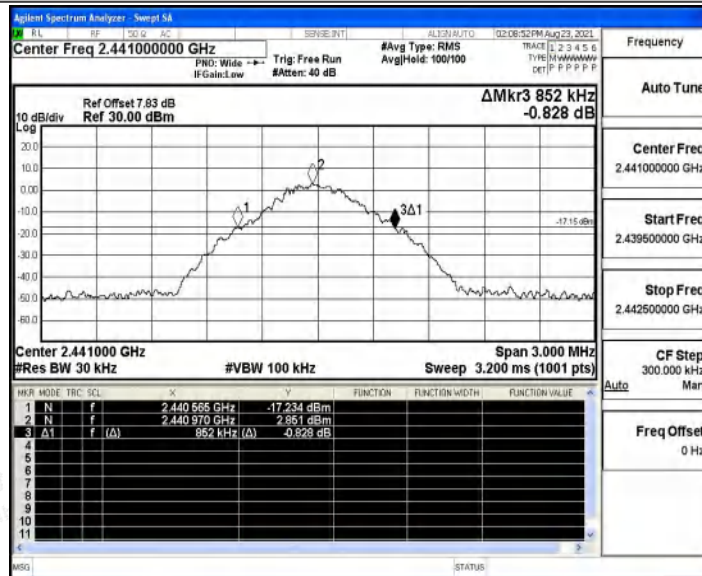


Test Graphs

DH5_Ant1_2402

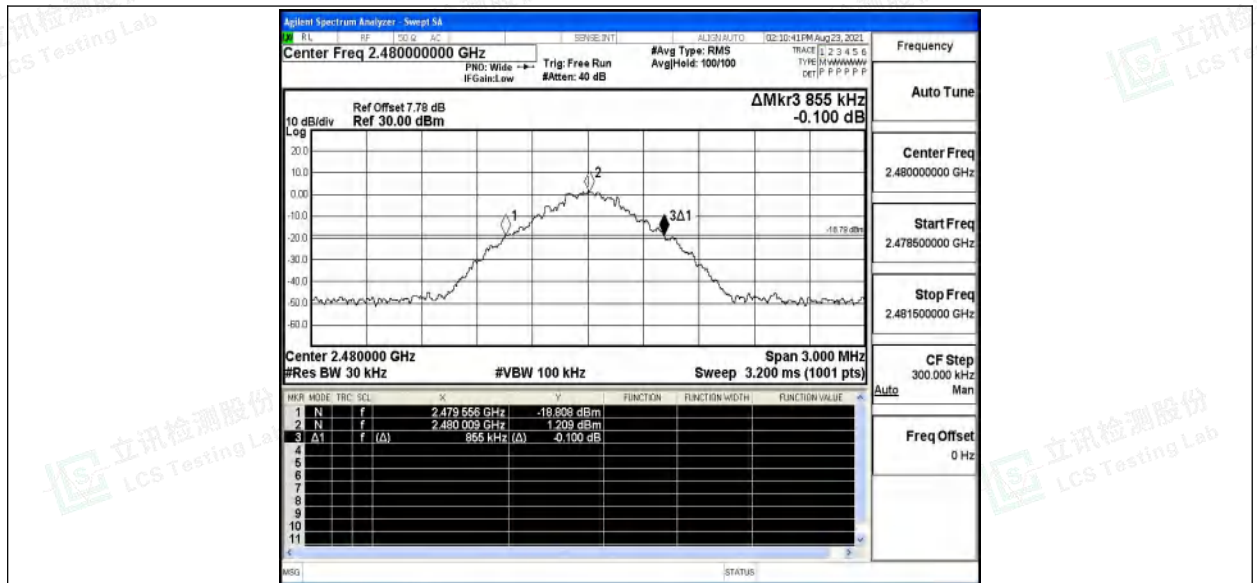


DH5_Ant1_2441

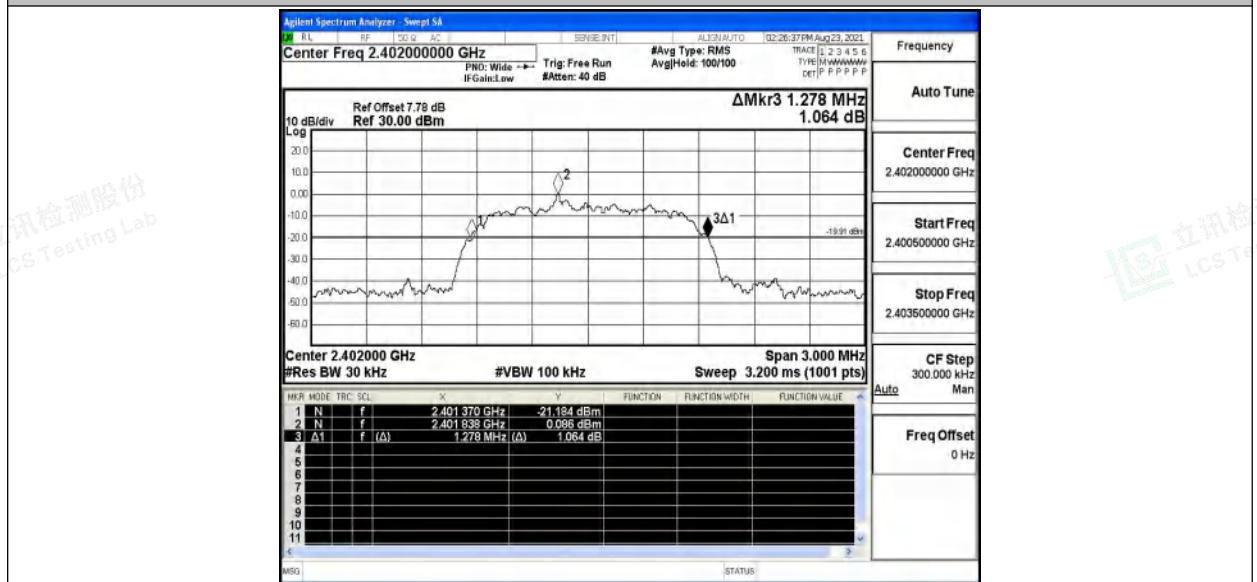


DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441

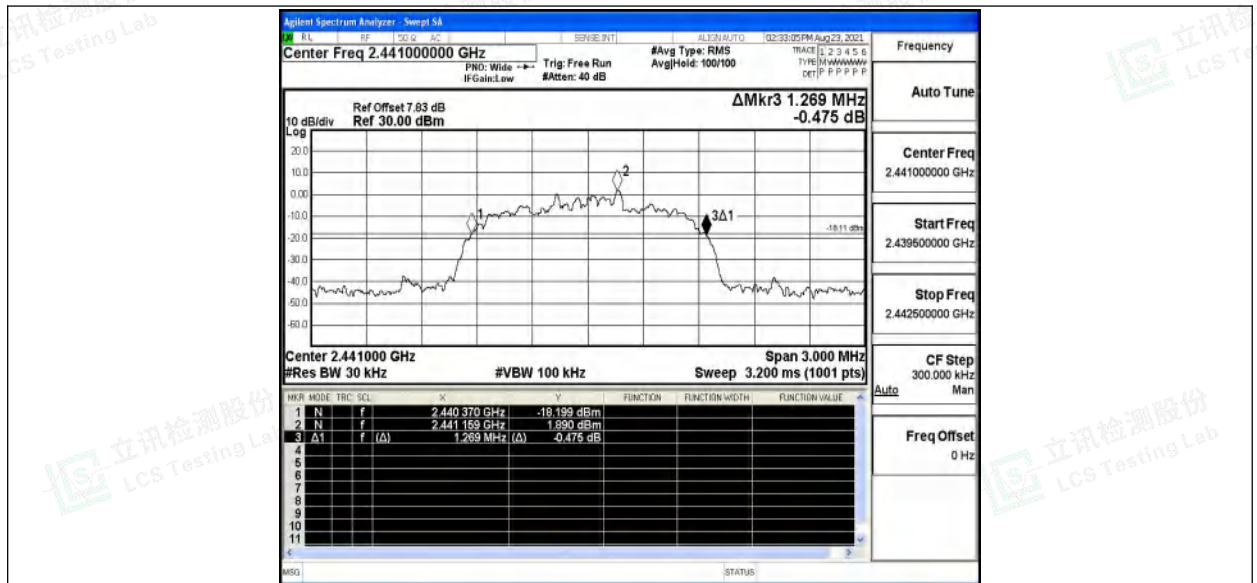


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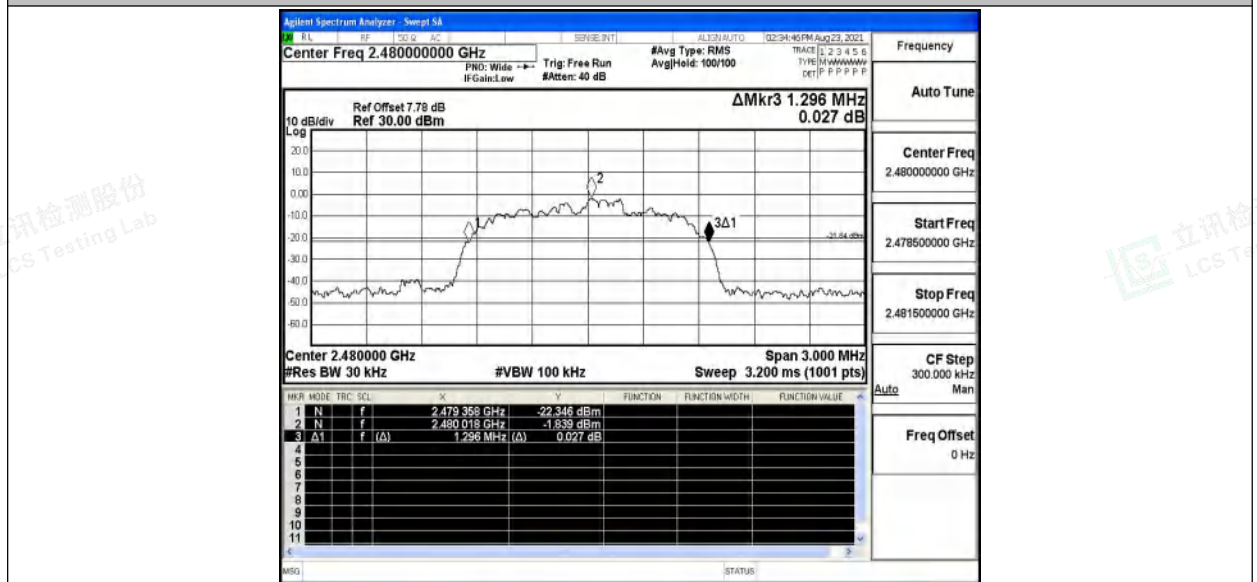
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480



3DH5_Ant1_2402

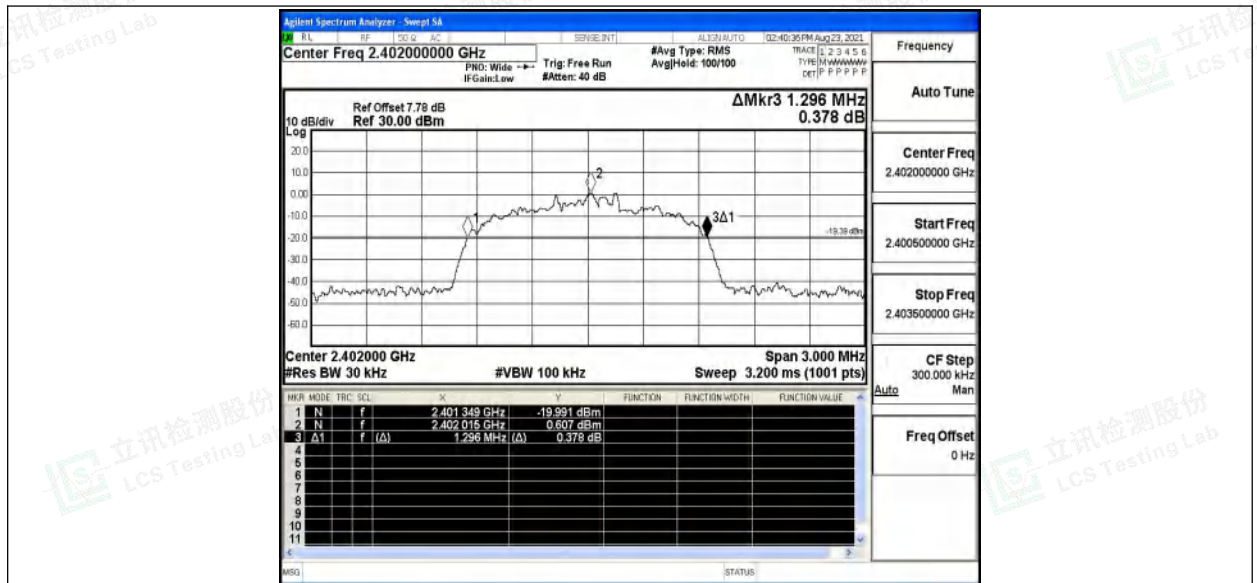


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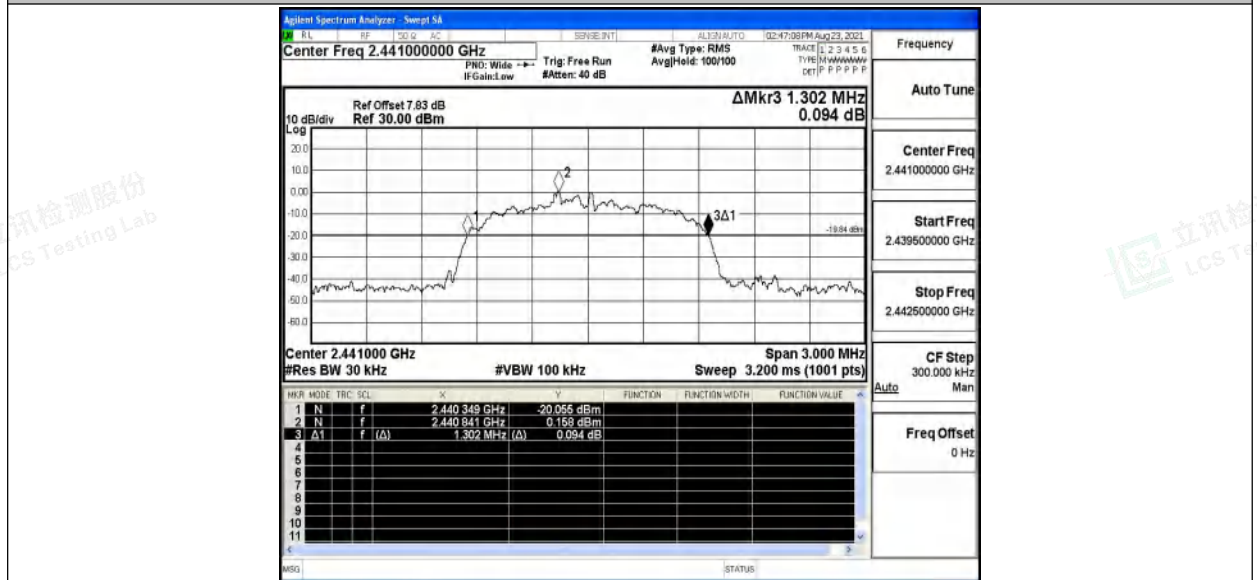
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3DH5_Ant1_2441



3DH5_Ant1_2480

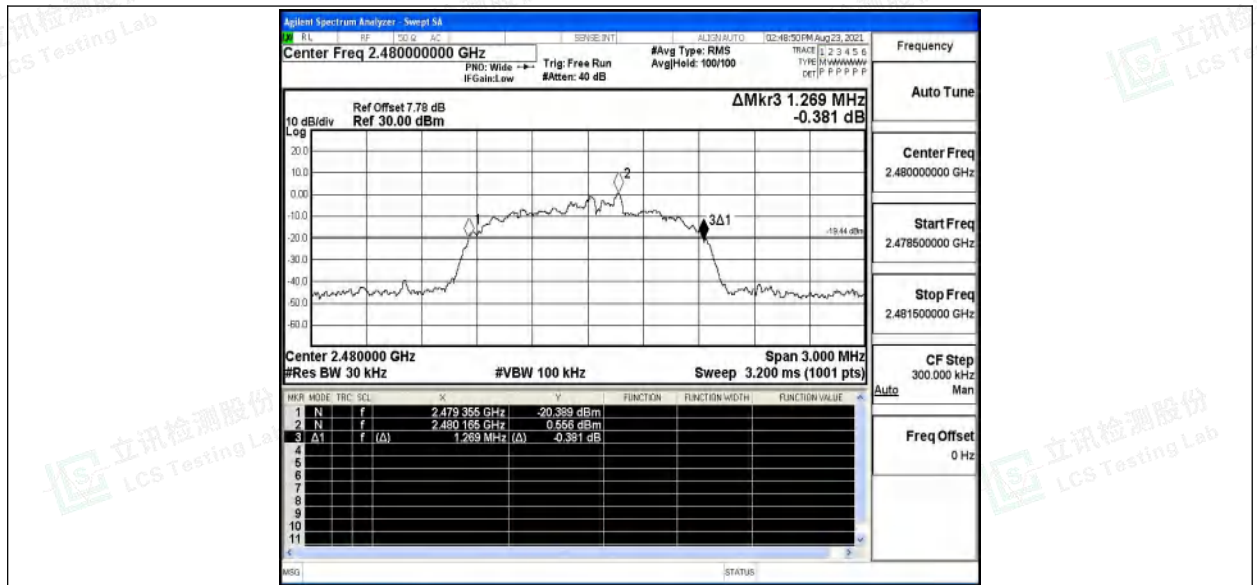


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A.2 Maximum conducted output power

Test Result

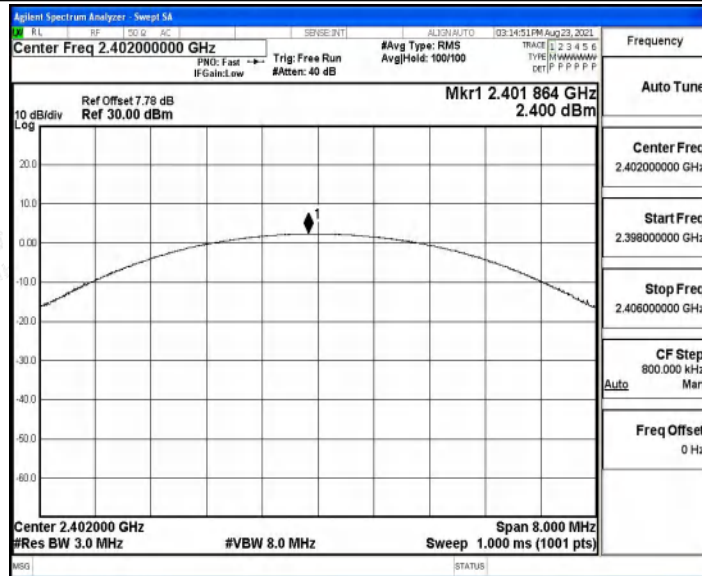
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.4	≤30	PASS
		2441	2.74	≤30	PASS
		2480	2.64	≤30	PASS
2DH5	Ant1	2402	3.34	≤20.97	PASS
		2441	3.68	≤20.97	PASS
		2480	2.01	≤20.97	PASS
3DH5	Ant1	2402	3.33	≤20.97	PASS
		2441	3.62	≤20.97	PASS
		2480	2.01	≤20.97	PASS



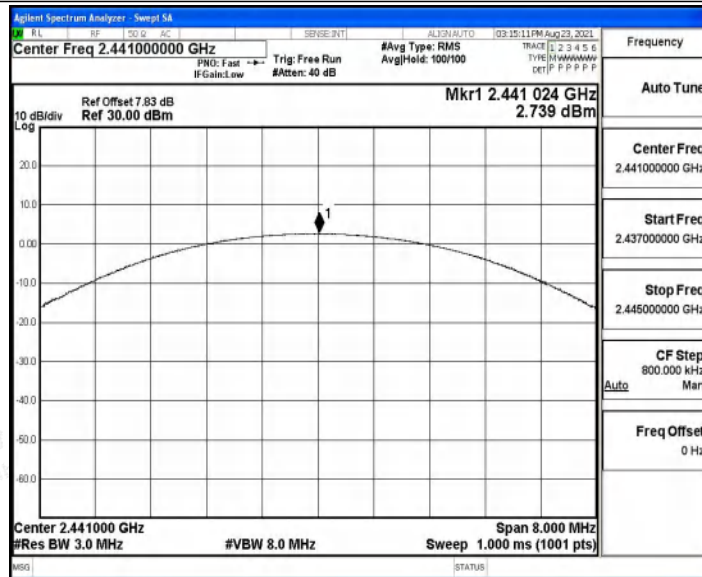


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

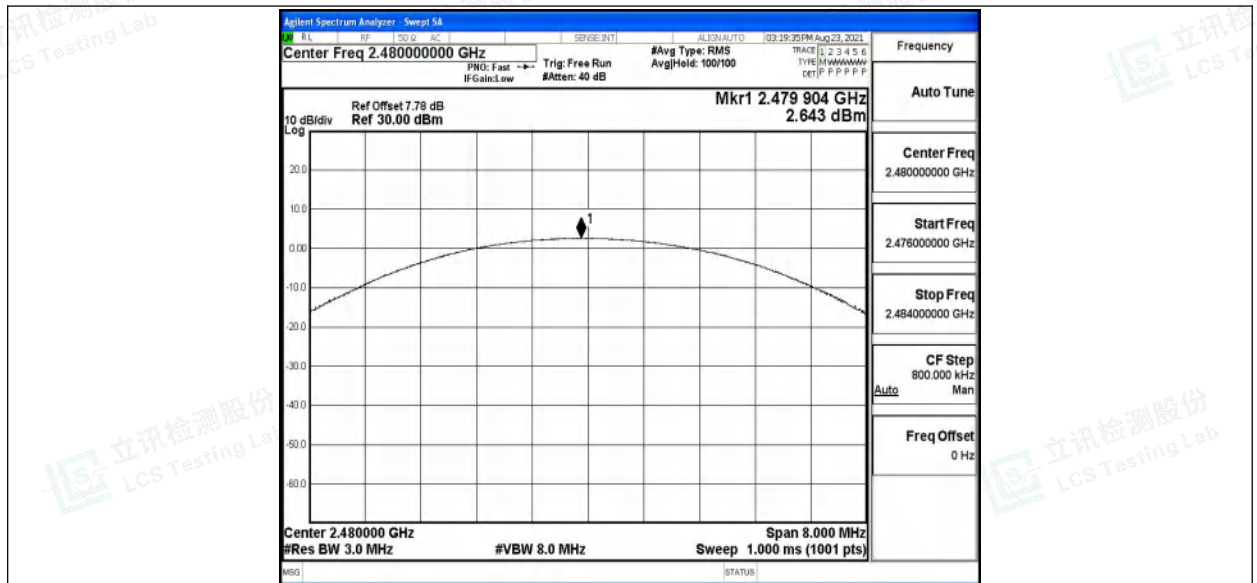


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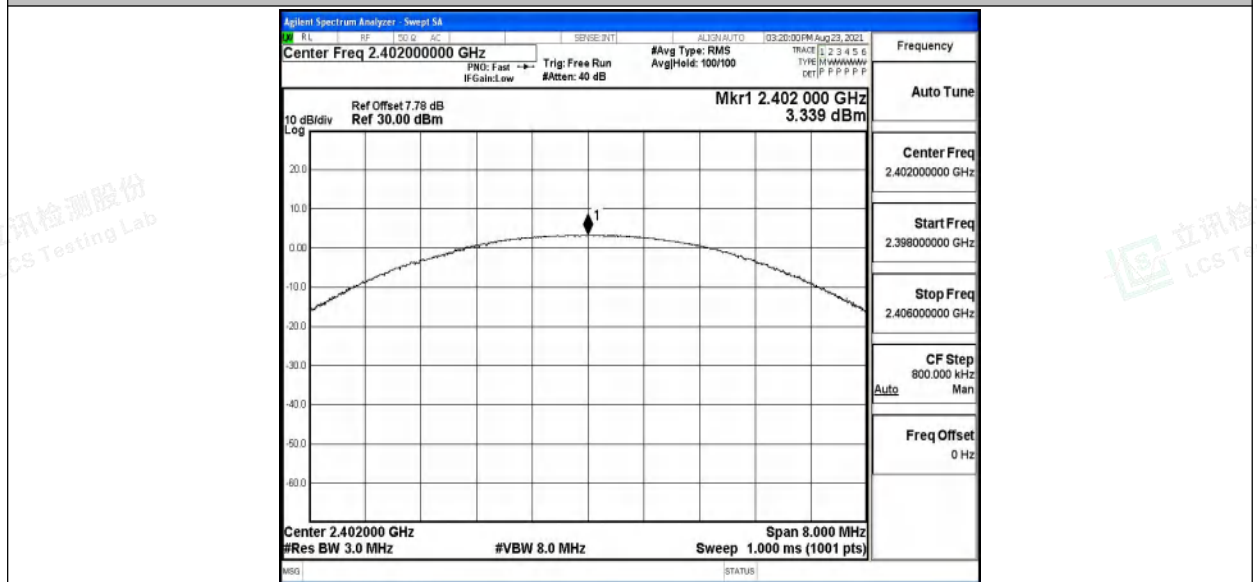
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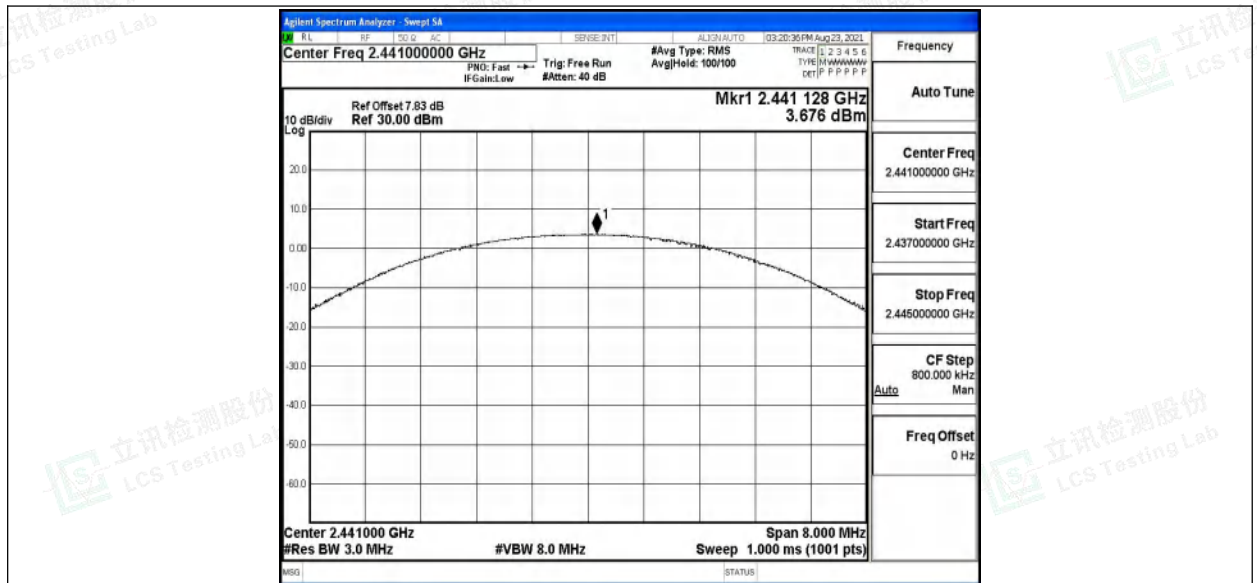


2DH5_Ant1_2402

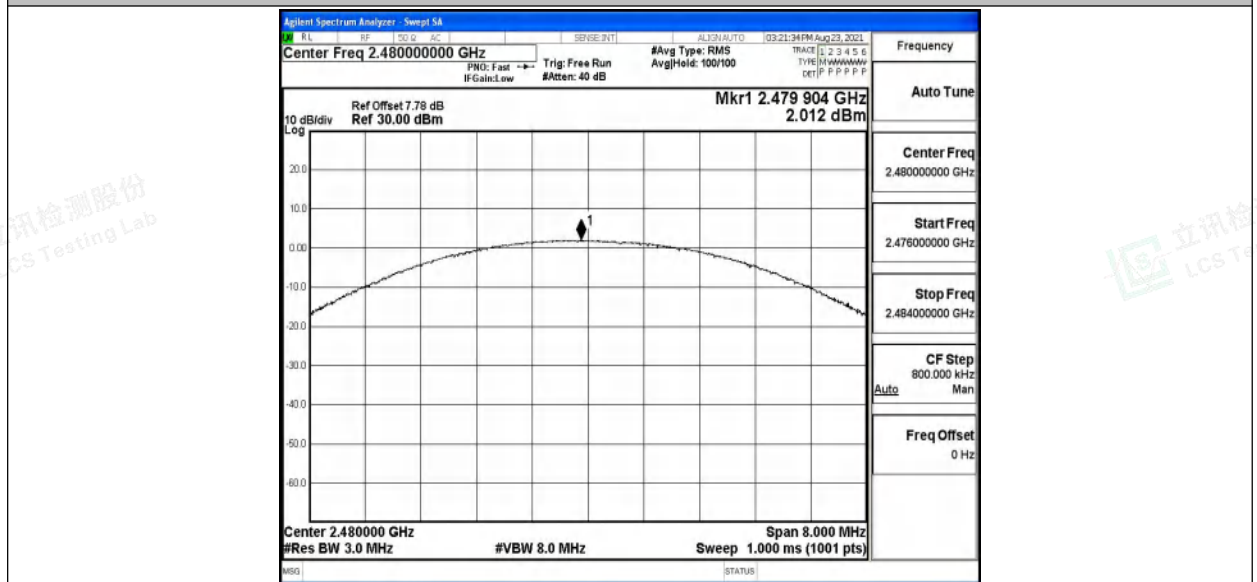


2DH5_Ant1_2441



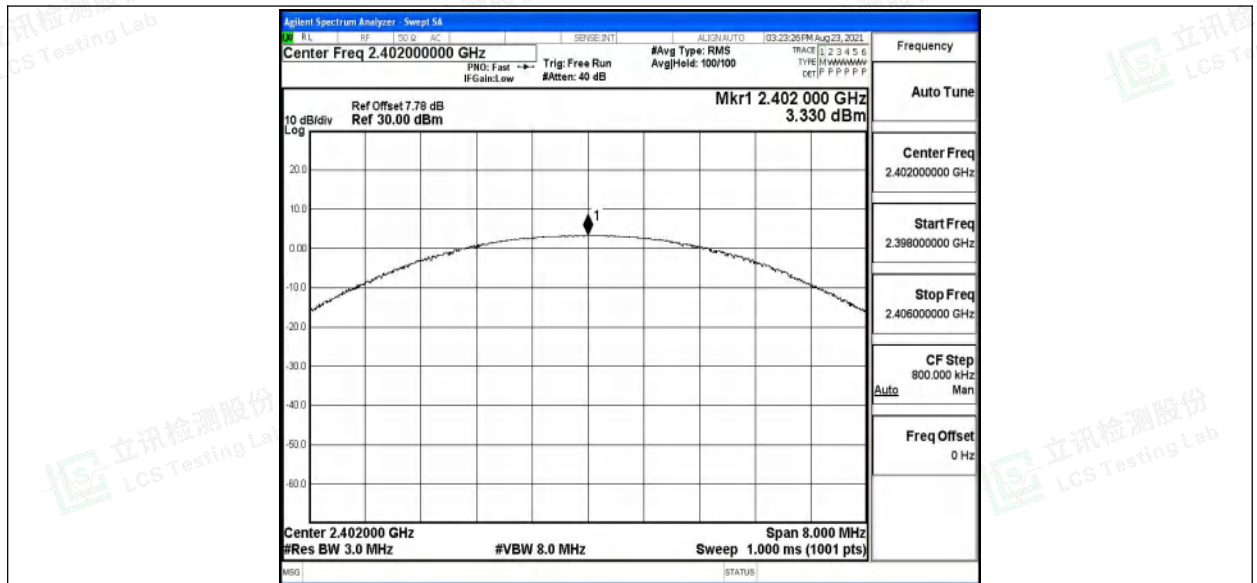


2DH5_Ant1_2480

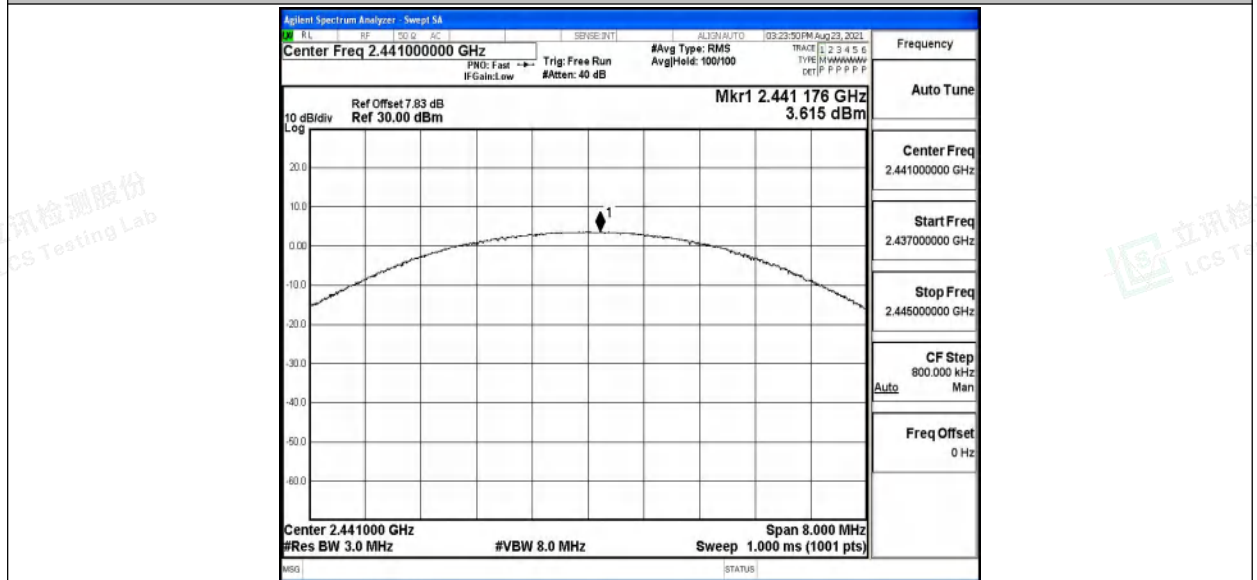


3DH5_Ant1_2402





3DH5_Ant1_2441



3DH5_Ant1_2480

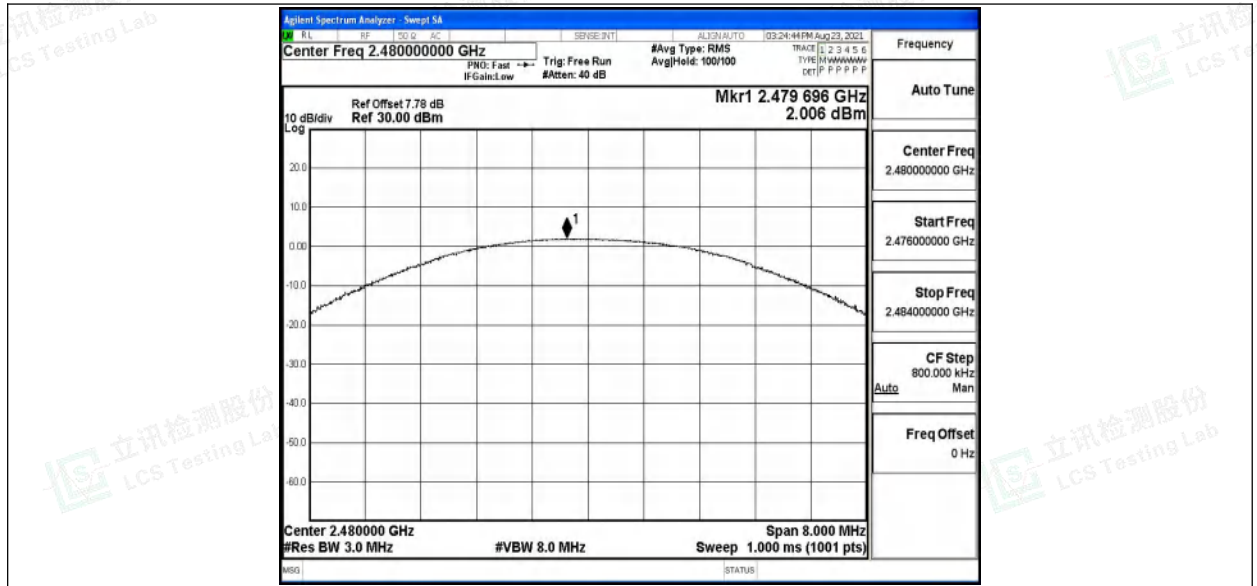


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A.3 Carrier frequency separation

Test Result

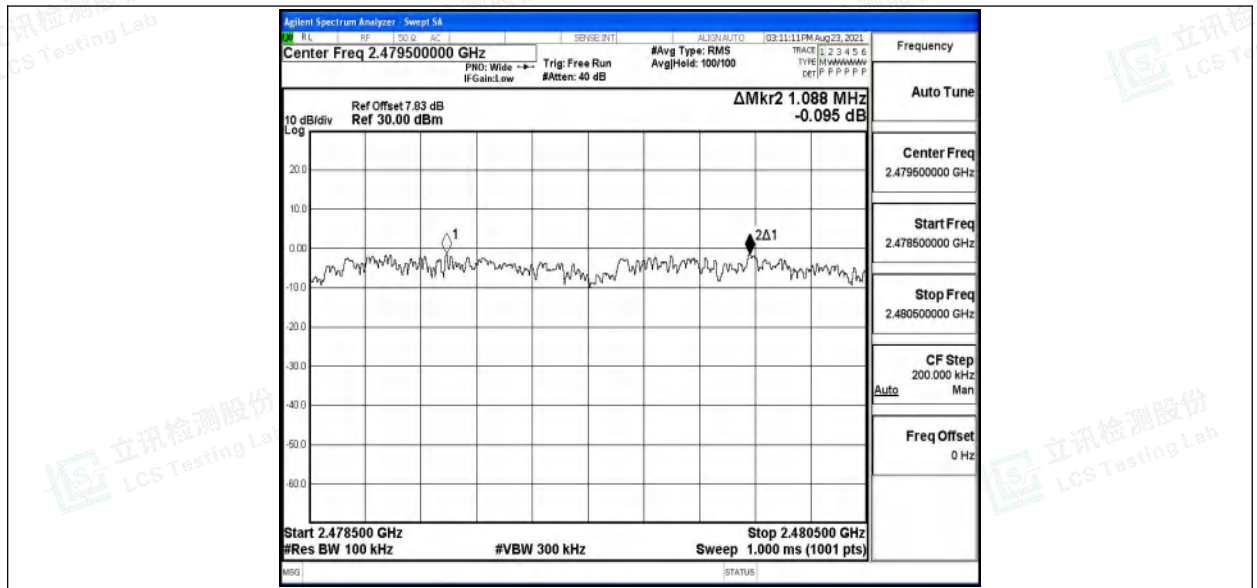
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.964	≥ 0.855	PASS
2DH5	Ant1	Hop	0.942	≥ 0.864	PASS
3DH5	Ant1	Hop	1.088	≥ 0.868	PASS





Test Graphs







A.4 Time of occupancy

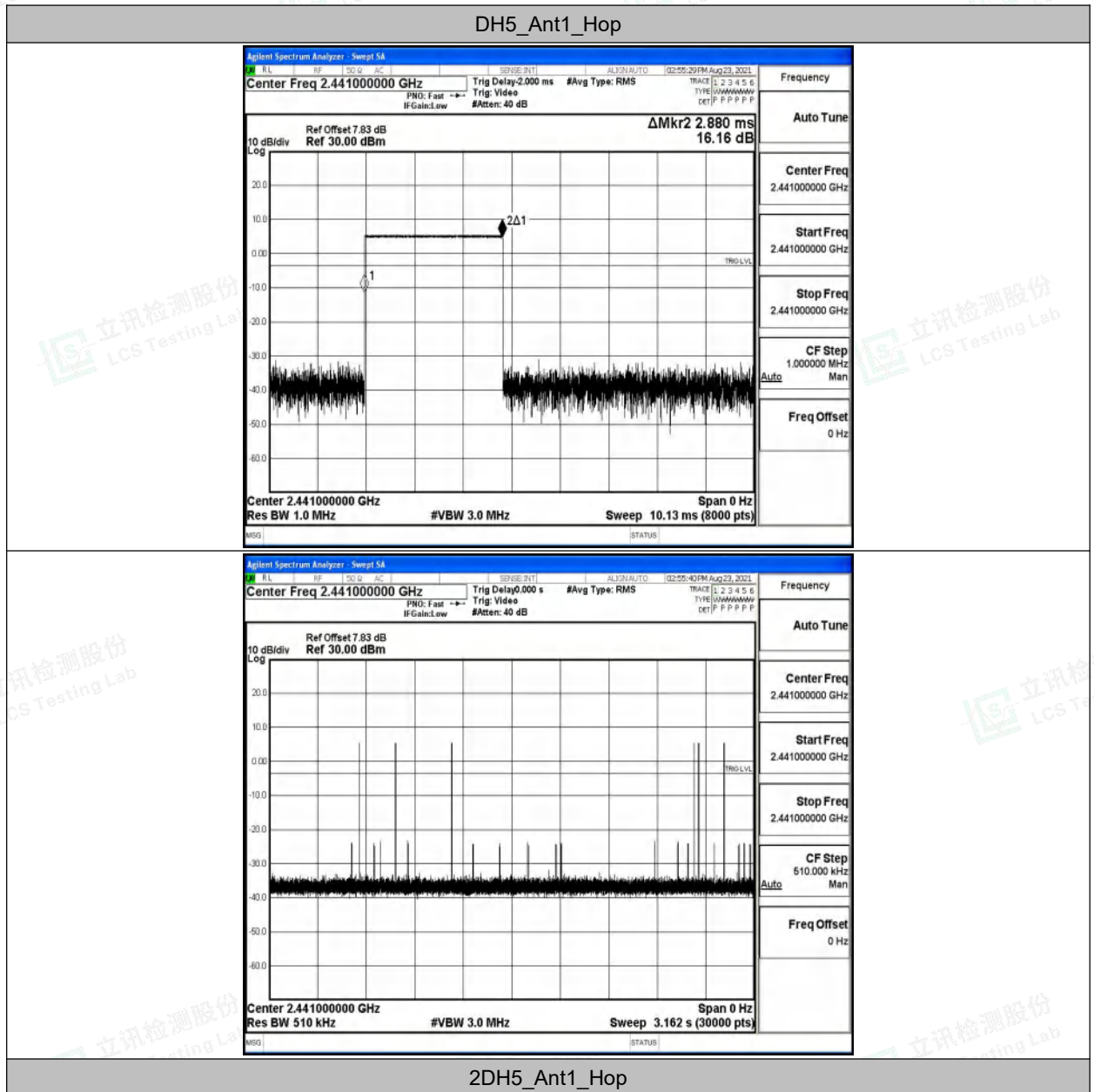
Test Result

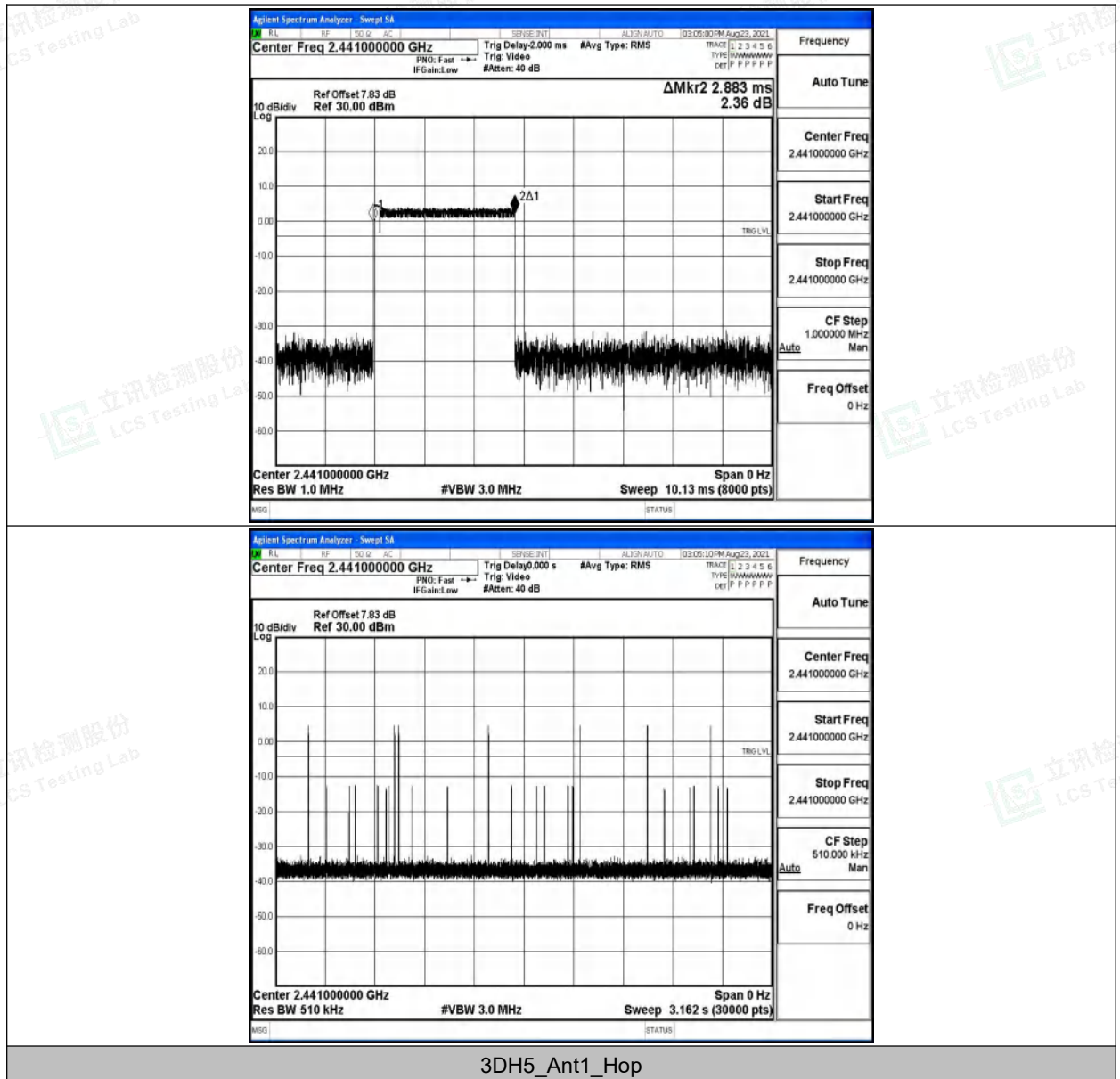
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS





Test Graphs



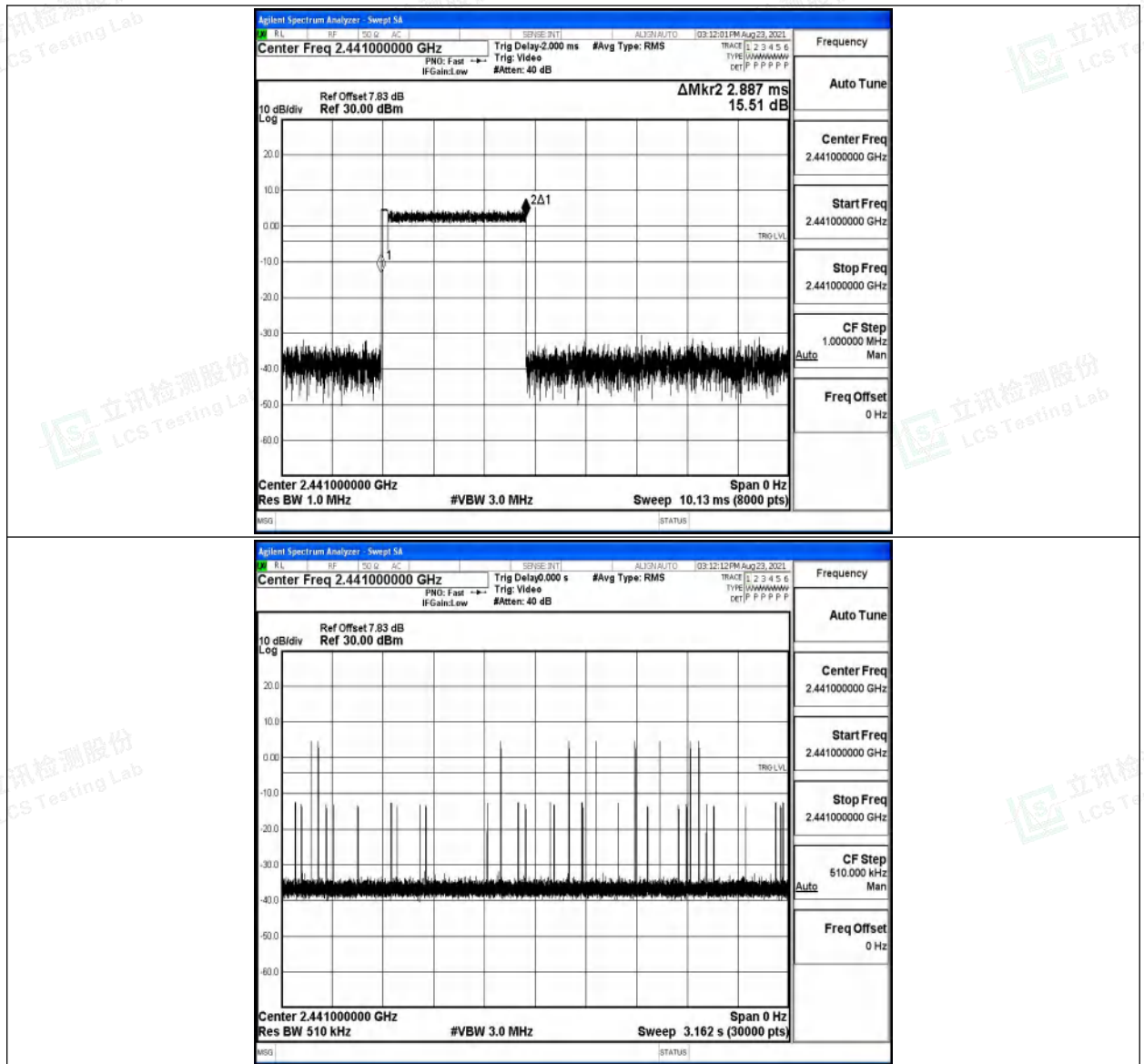


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A.5 Number of hopping channels

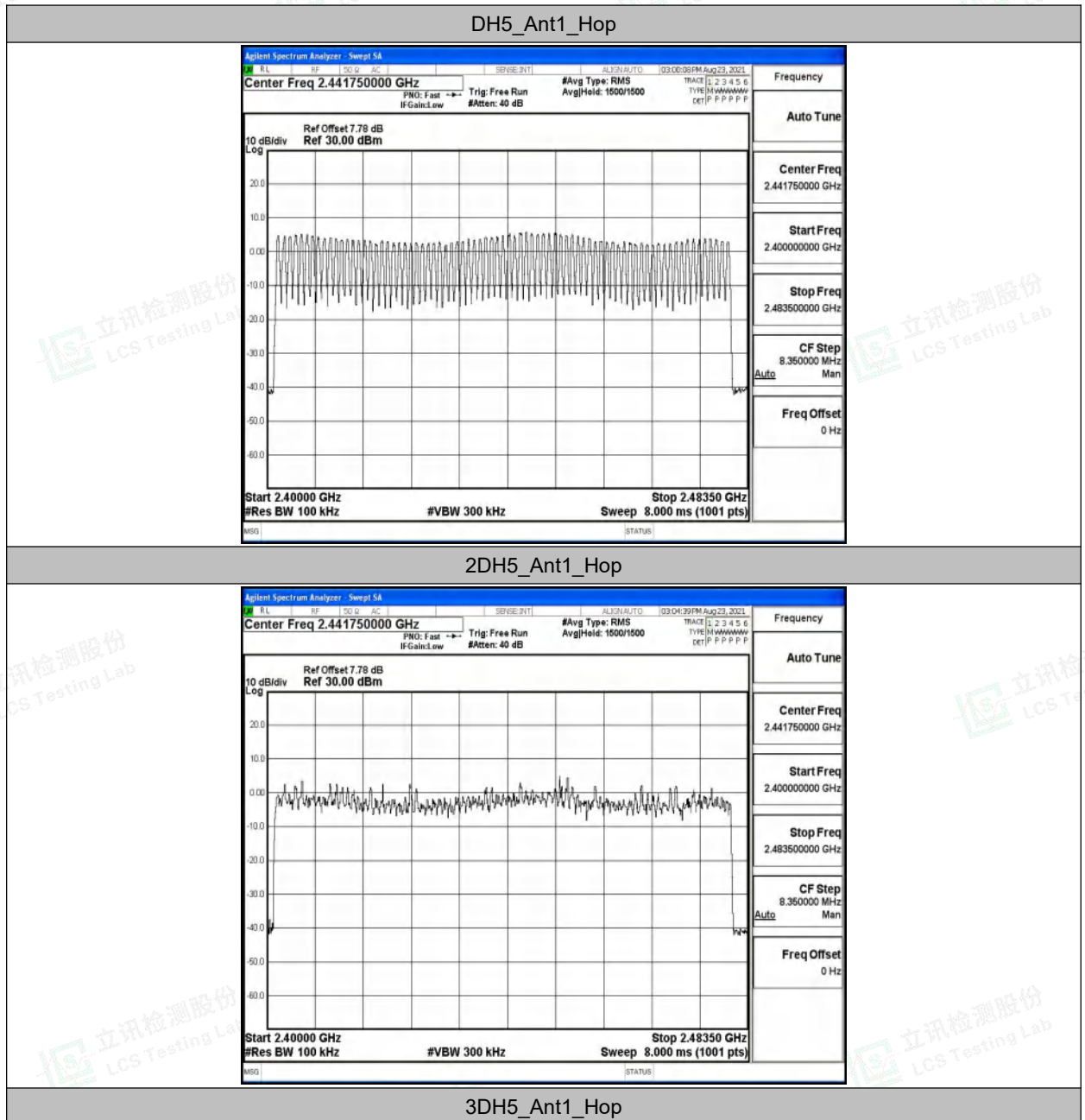
Test Result

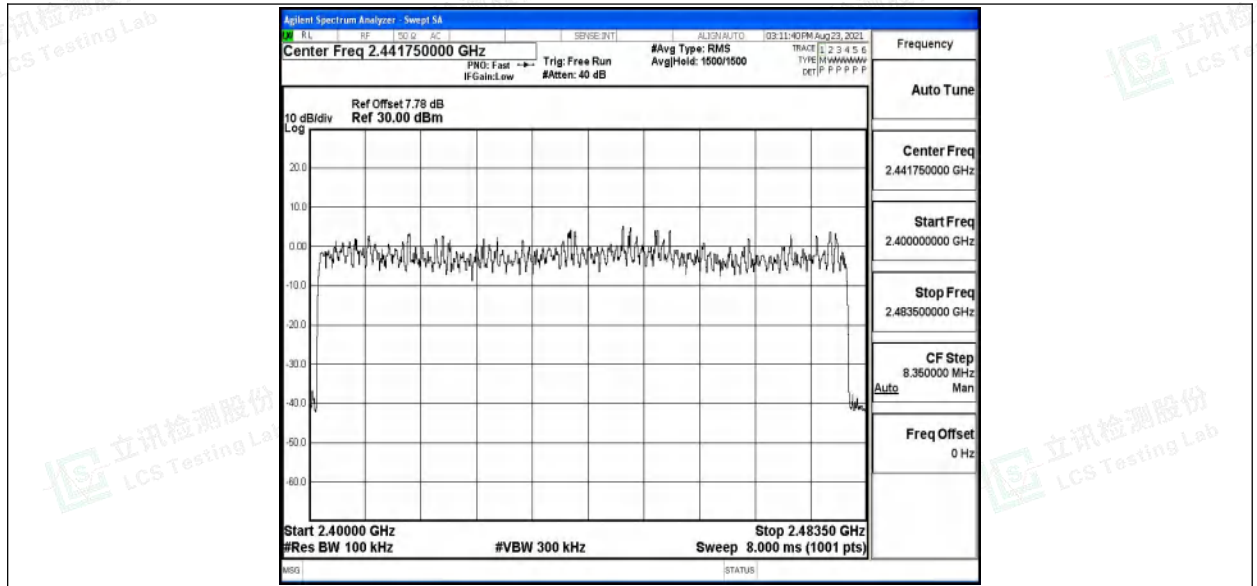
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

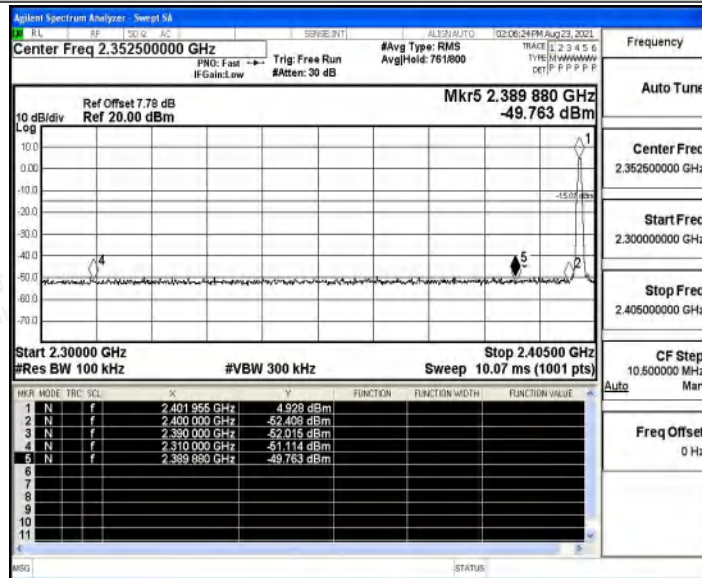
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.93	-49.76	≤ -15.07	PASS
		High	2480	3.60	-48.44	≤ -16.4	PASS
		Low	Hop_2402	4.52	-49.47	≤ -15.48	PASS
		High	Hop_2480	3.62	-48.51	≤ -16.38	PASS
2DH5	Ant1	Low	2402	3.96	-49.35	≤ -16.04	PASS
		High	2480	3.04	-47.91	≤ -16.96	PASS
		Low	Hop_2402	-1.14	-49.41	≤ -21.14	PASS
		High	Hop_2480	2.82	-48.9	≤ -17.18	PASS
3DH5	Ant1	Low	2402	4.38	-49.43	≤ -15.62	PASS
		High	2480	2.67	-48.5	≤ -17.33	PASS
		Low	Hop_2402	-0.56	-49.34	≤ -20.56	PASS
		High	Hop_2480	1.81	-47.24	≤ -18.19	PASS



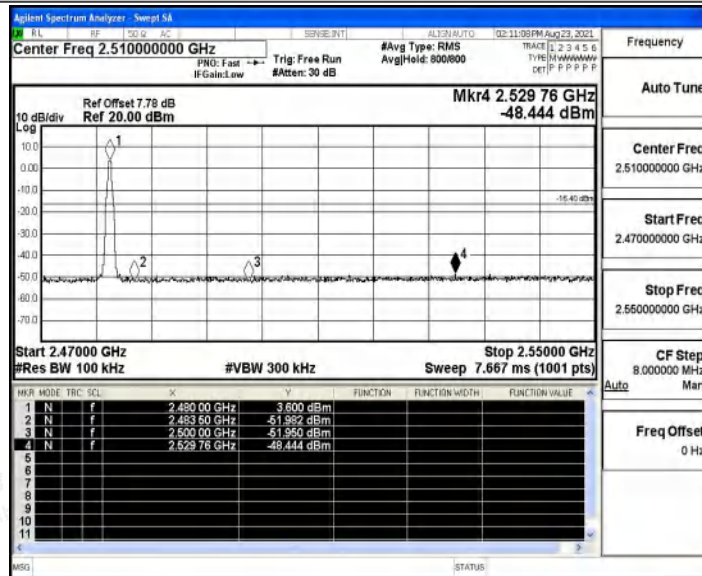


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

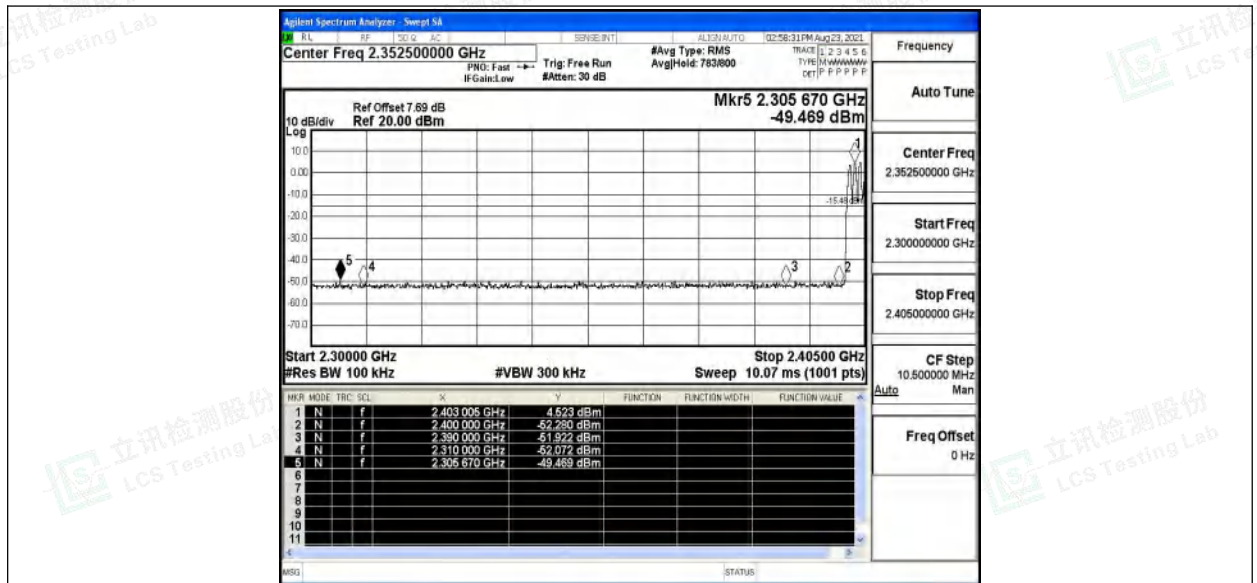


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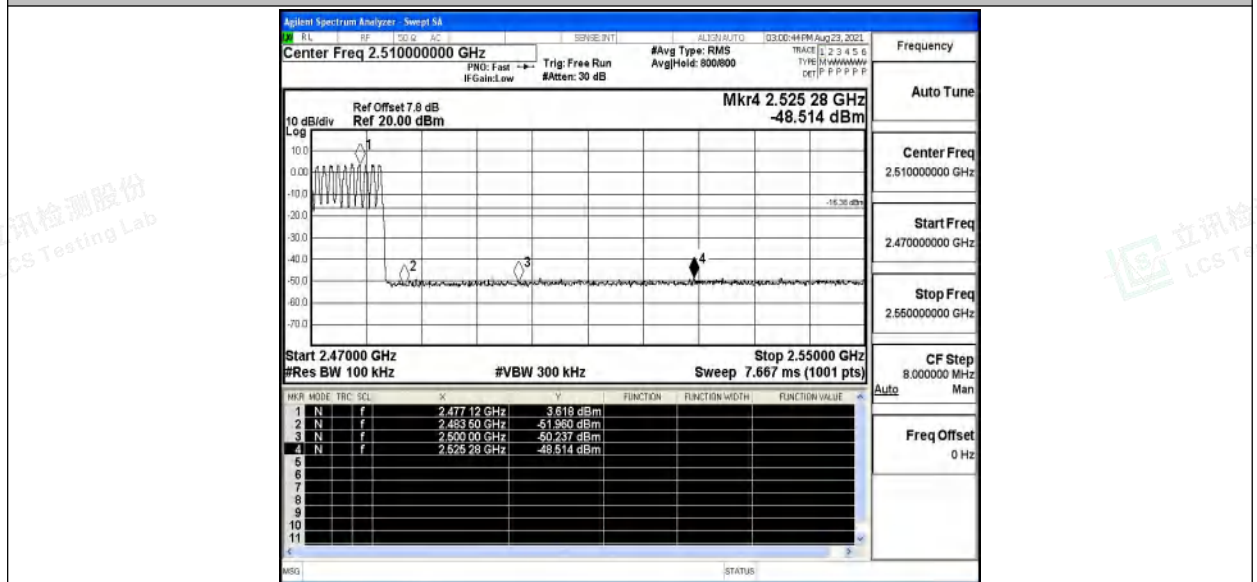
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

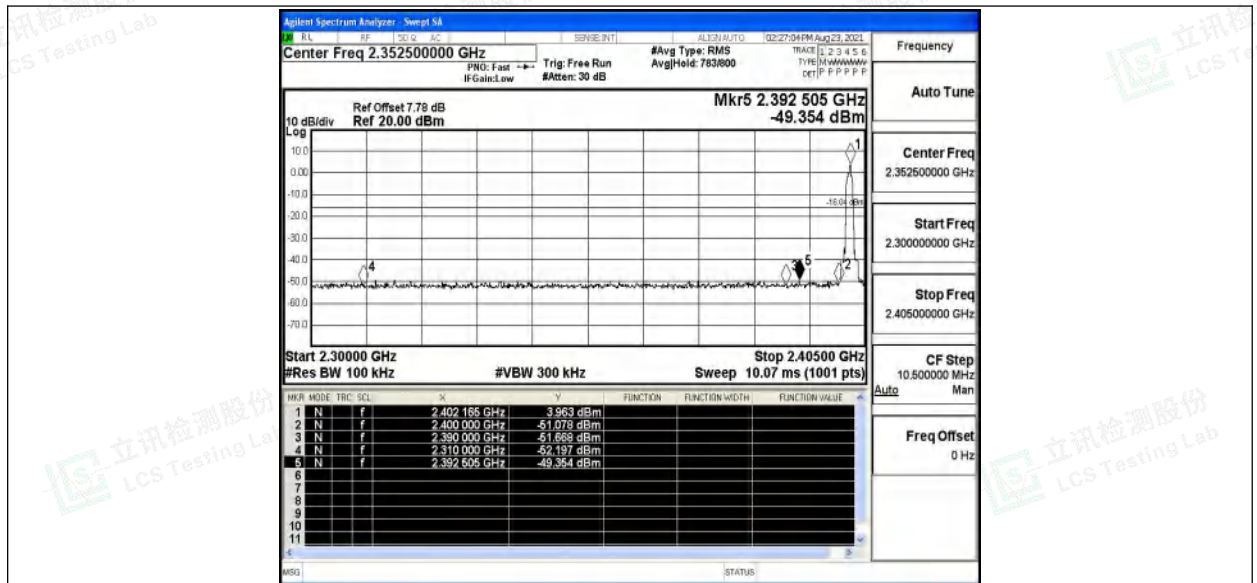


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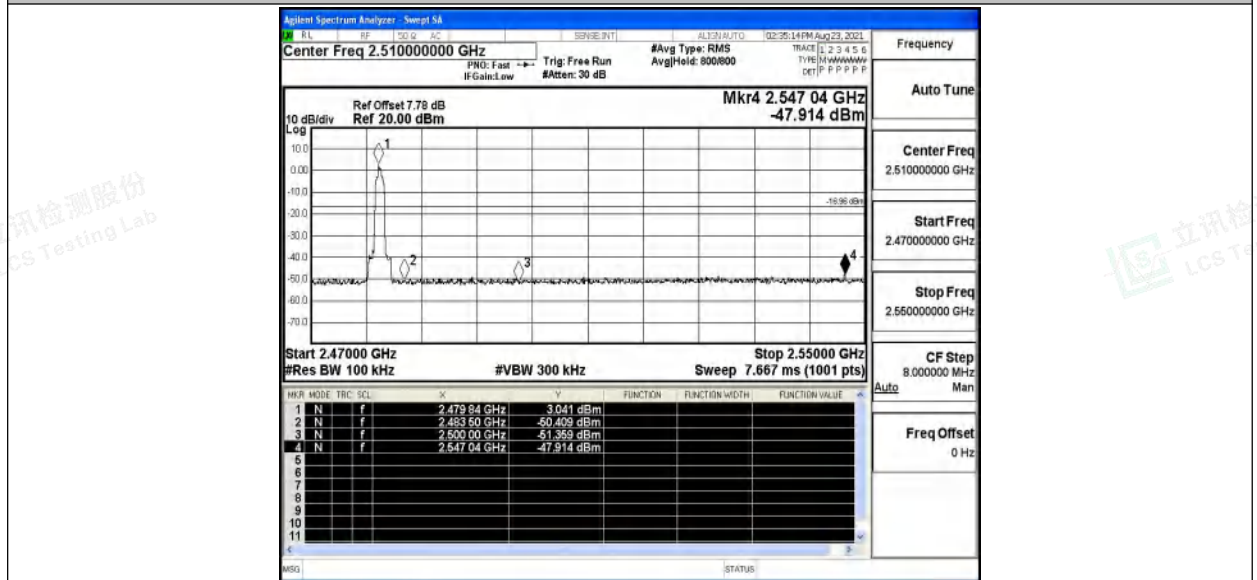
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

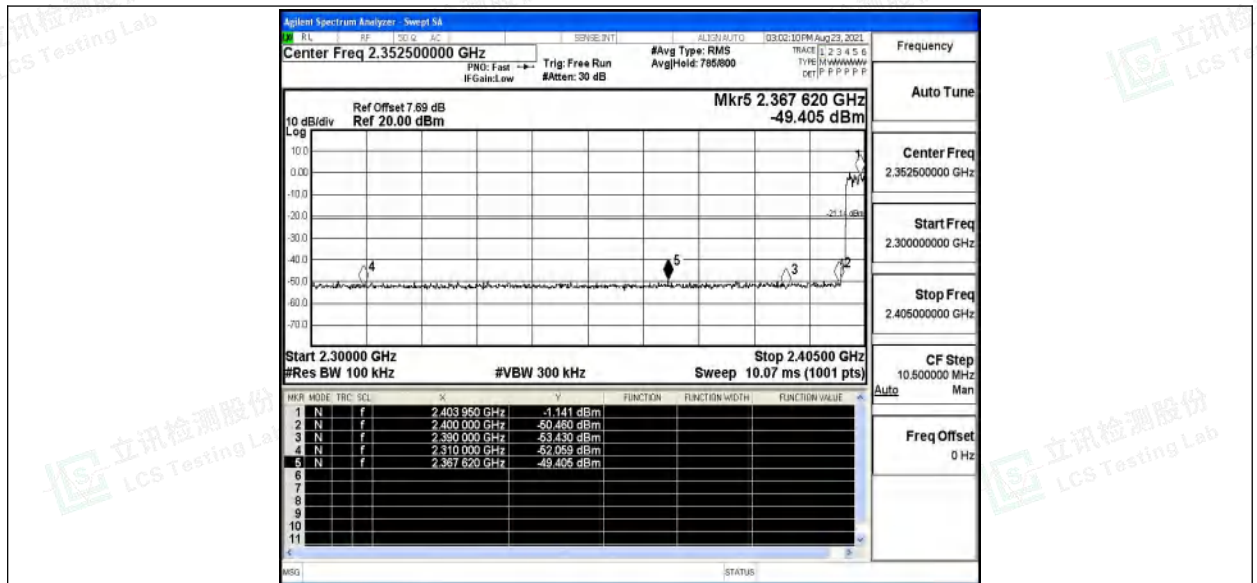


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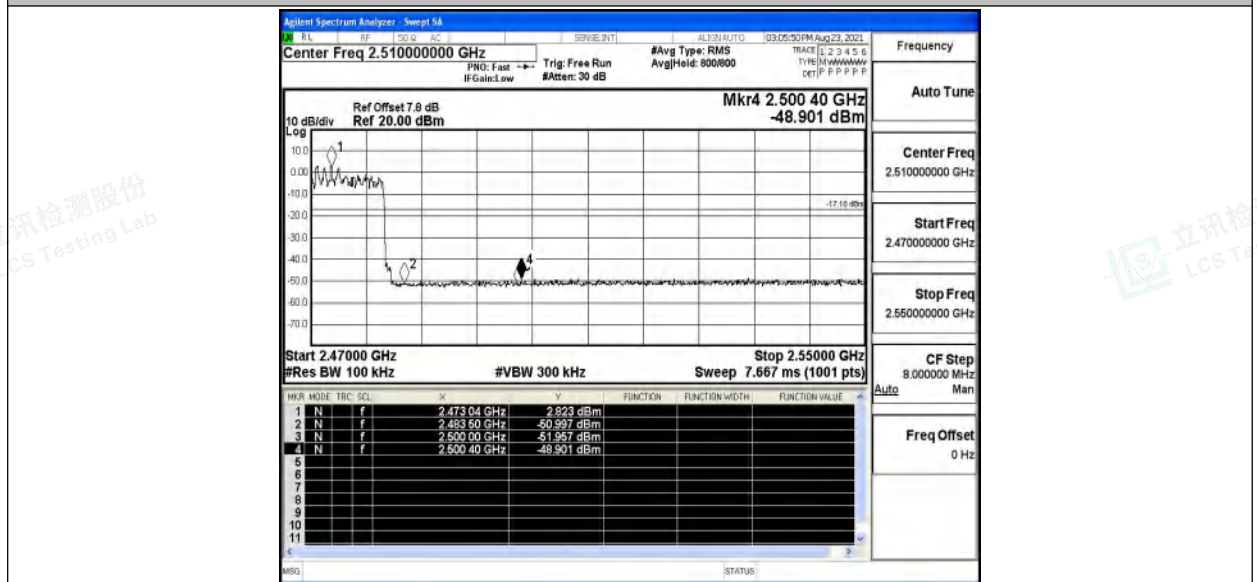
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

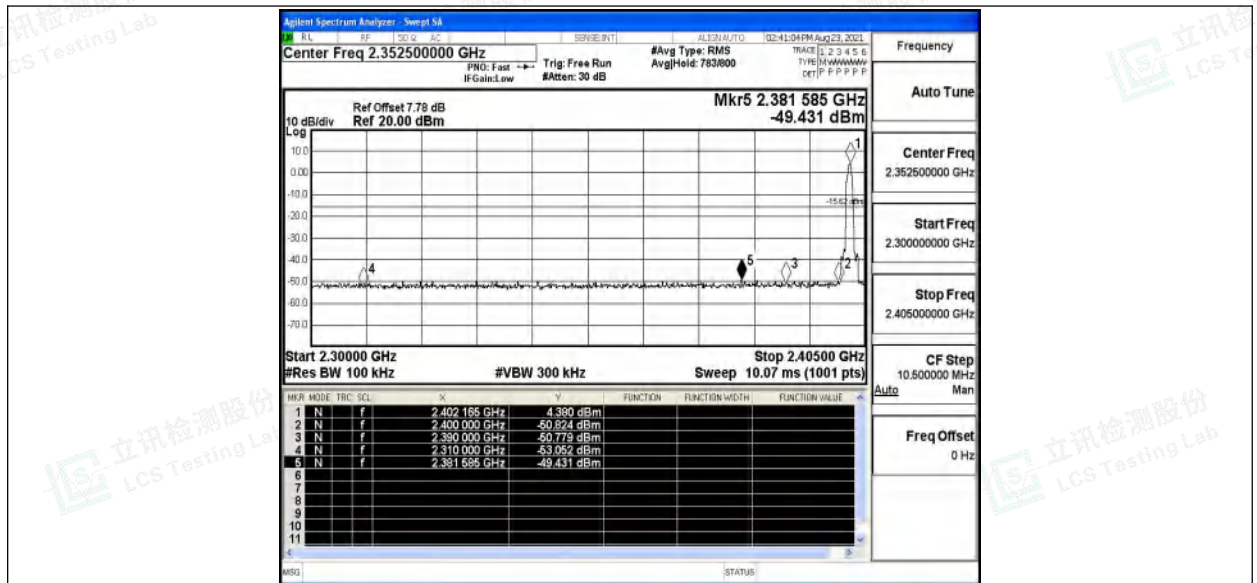


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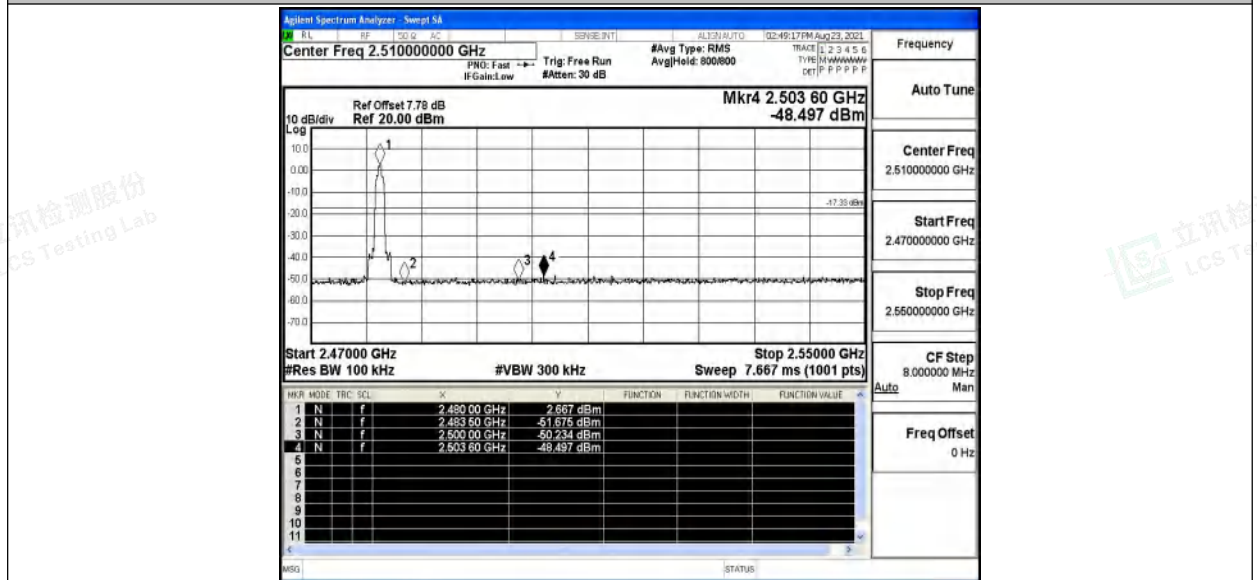
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

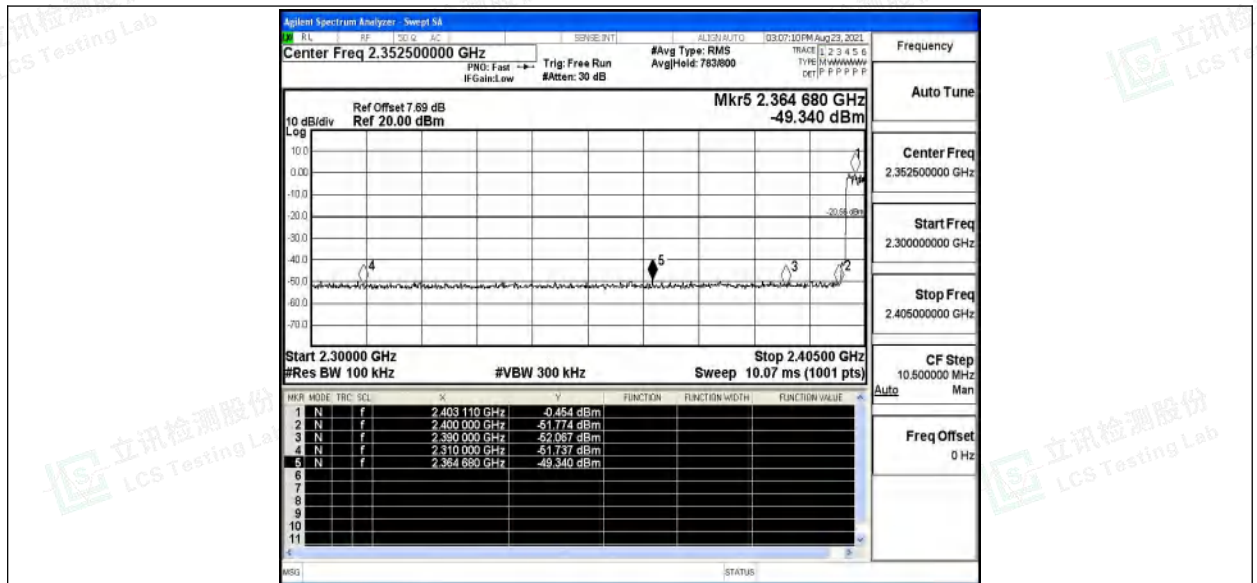


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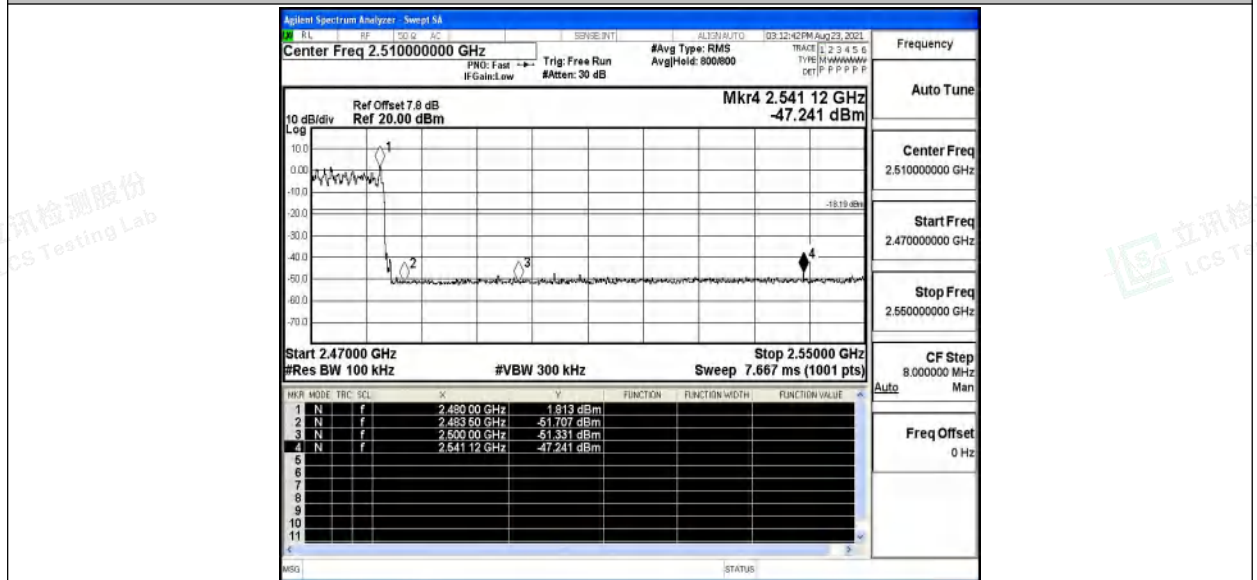
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

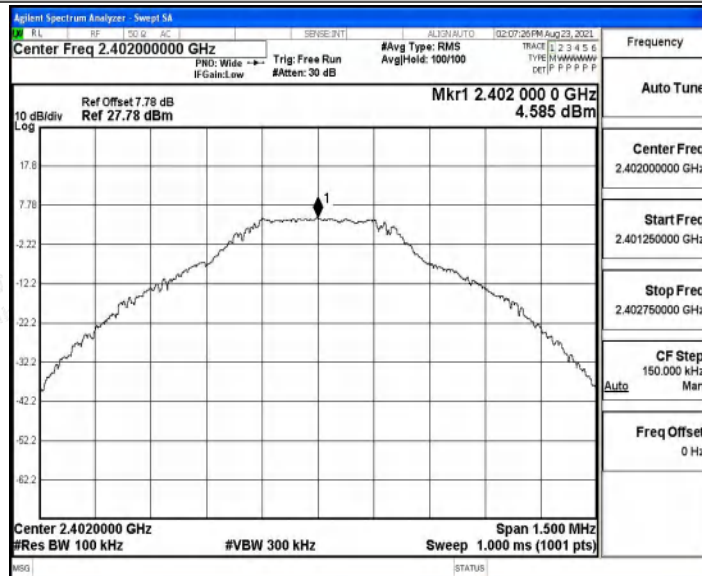
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-61.59	≤ -15.42	PASS
			1000~26500	4.59	-47.01	≤ -15.42	PASS
		2441	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-61.67	≤ -14.96	PASS
			1000~26500	5.04	-47.2	≤ -14.96	PASS
		2480	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-61.8	≤ -16.81	PASS
			1000~26500	3.19	-47.2	≤ -16.81	PASS
2DH5	Ant1	2402	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-60.93	≤ -15.98	PASS
			1000~26500	4.02	-47.51	≤ -15.98	PASS
		2441	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-60.29	≤ -16.45	PASS
			1000~26500	3.55	-47.39	≤ -16.45	PASS
		2480	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-61.84	≤ -17.33	PASS
			1000~26500	2.68	-47.69	≤ -17.33	PASS
3DH5	Ant1	2402	Reference	4.22	4.22	---	PASS
			30~1000	4.22	-61.4	≤ -15.78	PASS
			1000~26500	4.22	-46.66	≤ -15.78	PASS
		2441	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-61.51	≤ -16.1	PASS
			1000~26500	3.90	-47.34	≤ -16.1	PASS
		2480	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-61.98	≤ -20.27	PASS
			1000~26500	-0.27	-47.71	≤ -20.27	PASS



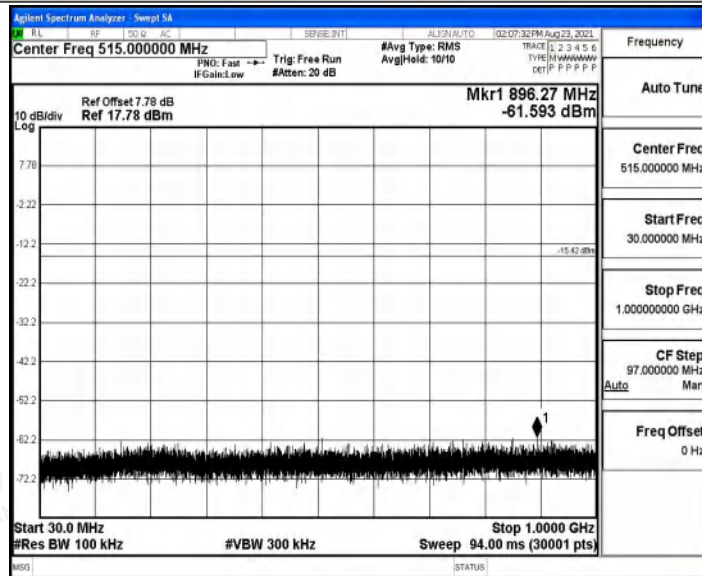


Test Graphs

DH5_Ant1_2402_0~Reference

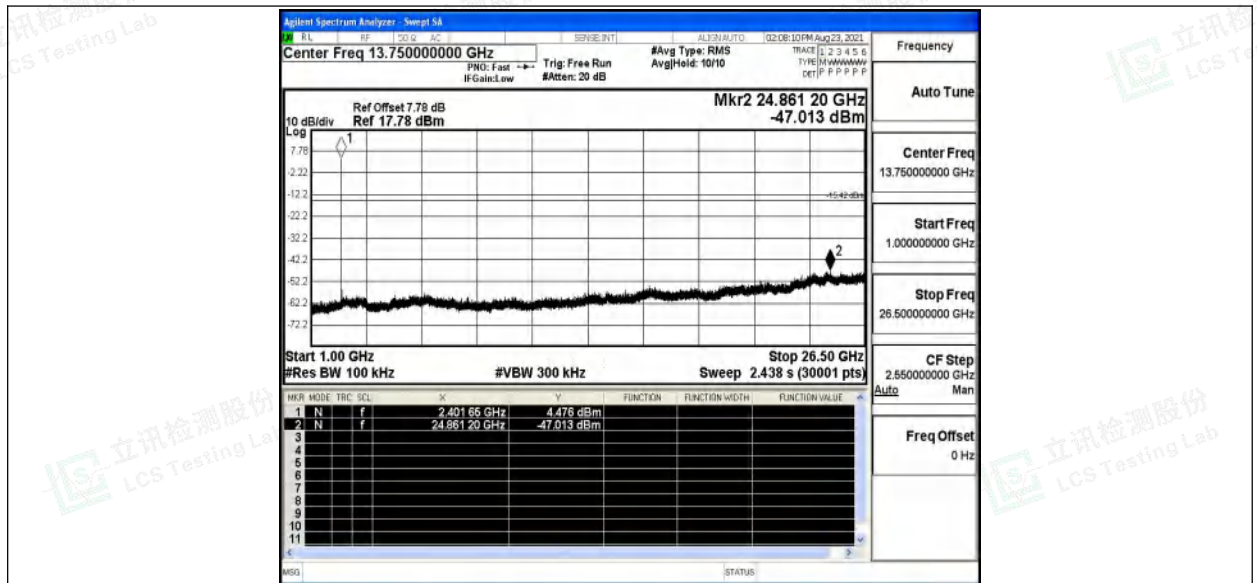


DH5_Ant1_2402_30~1000

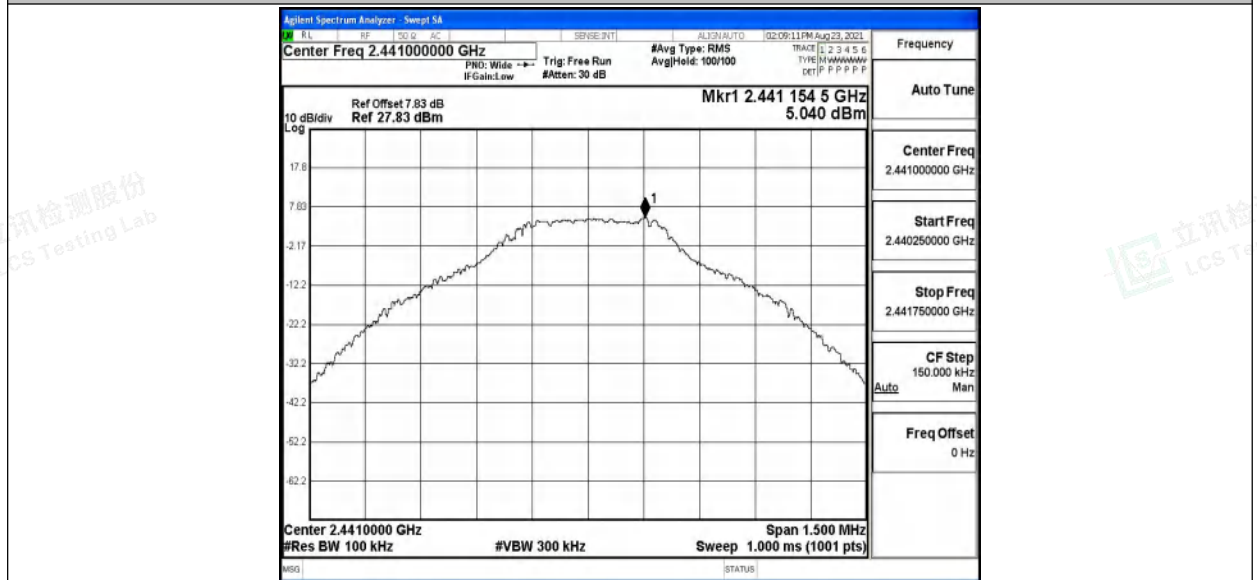


DH5_Ant1_2402_1000~26500



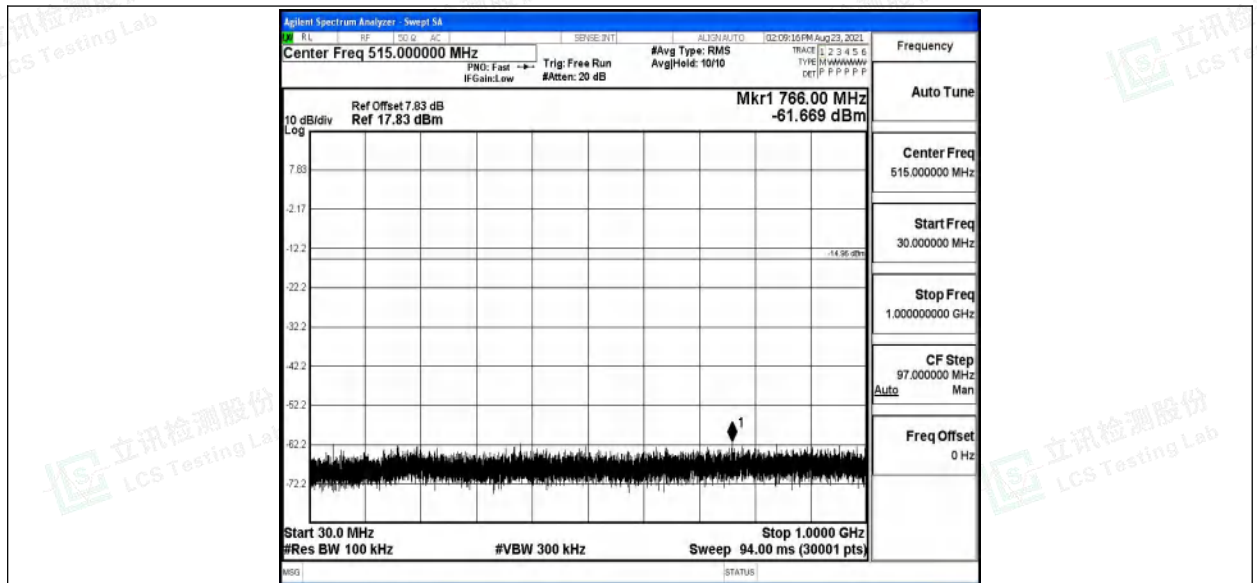


DH5_Ant1_2441_0~Reference

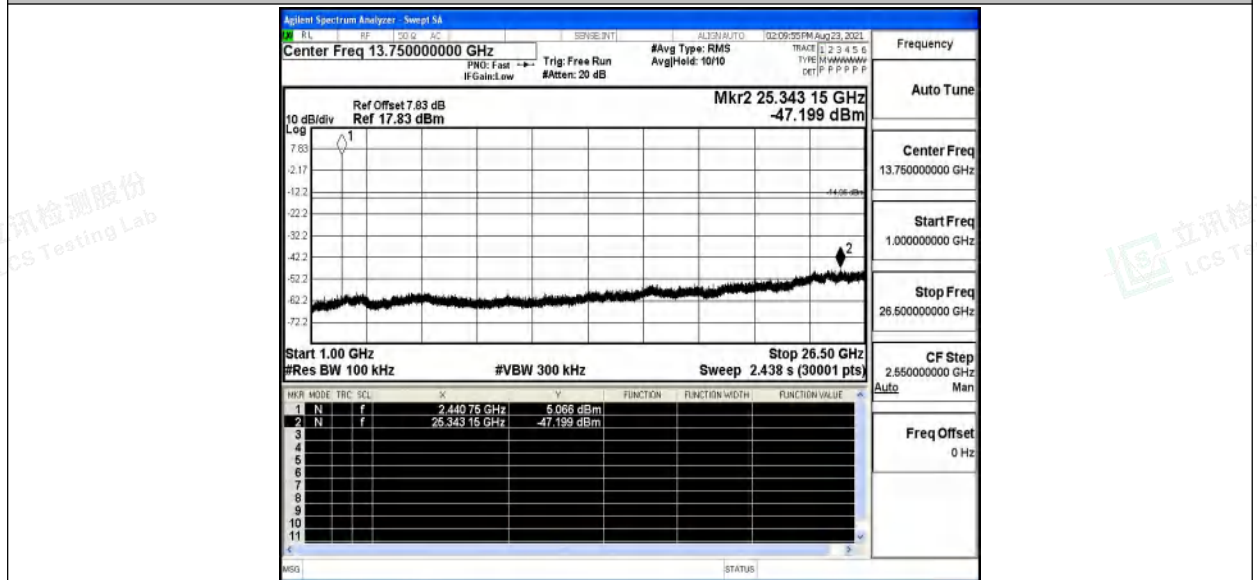


DH5_Ant1_2441_30~1000



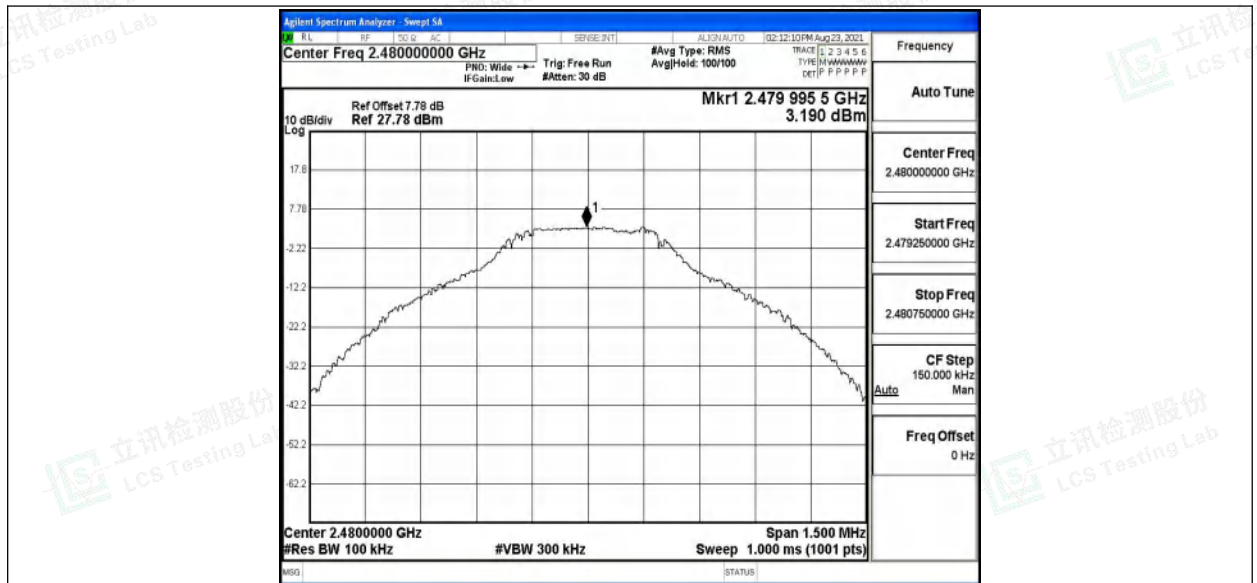


DH5_Ant1_2441_1000~26500

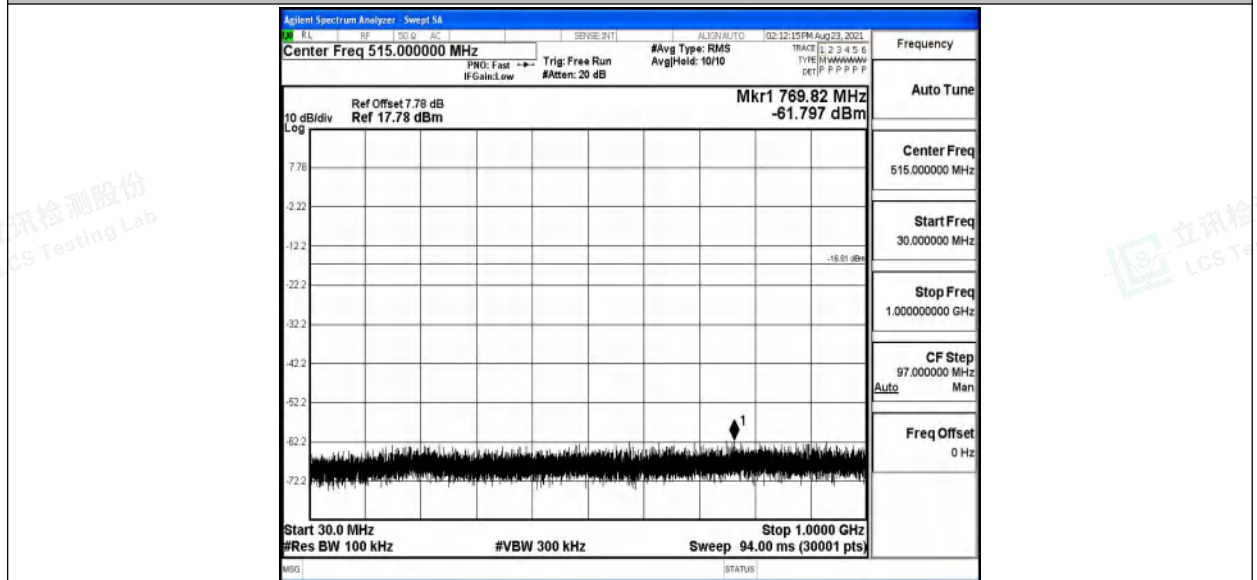


DH5_Ant1_2480_0~Reference



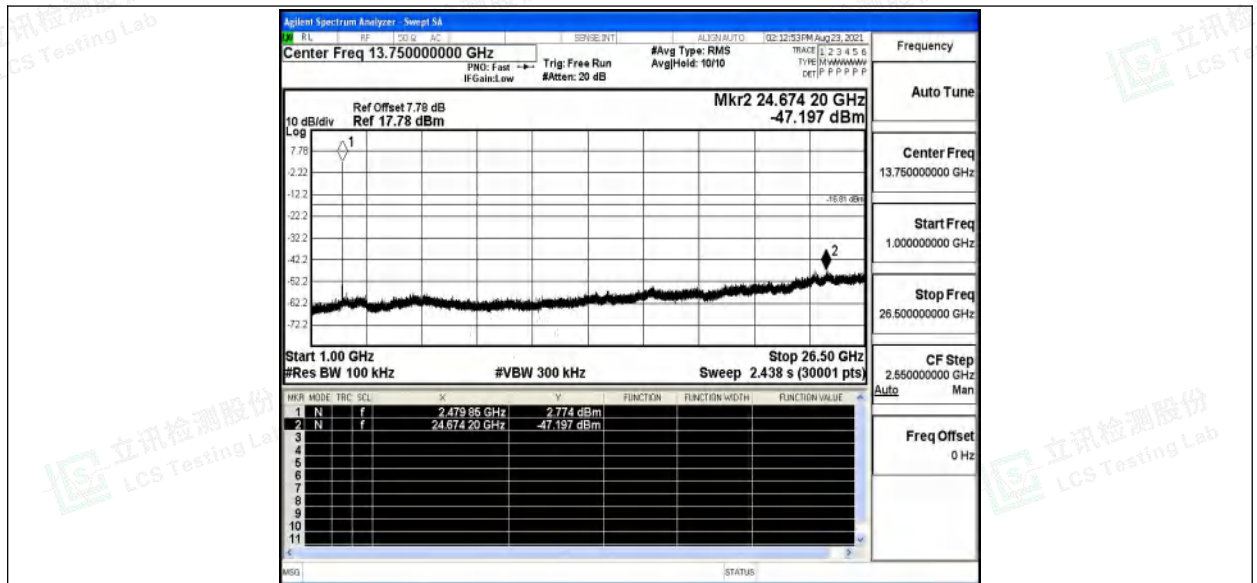


DH5_Ant1_2480_30~1000

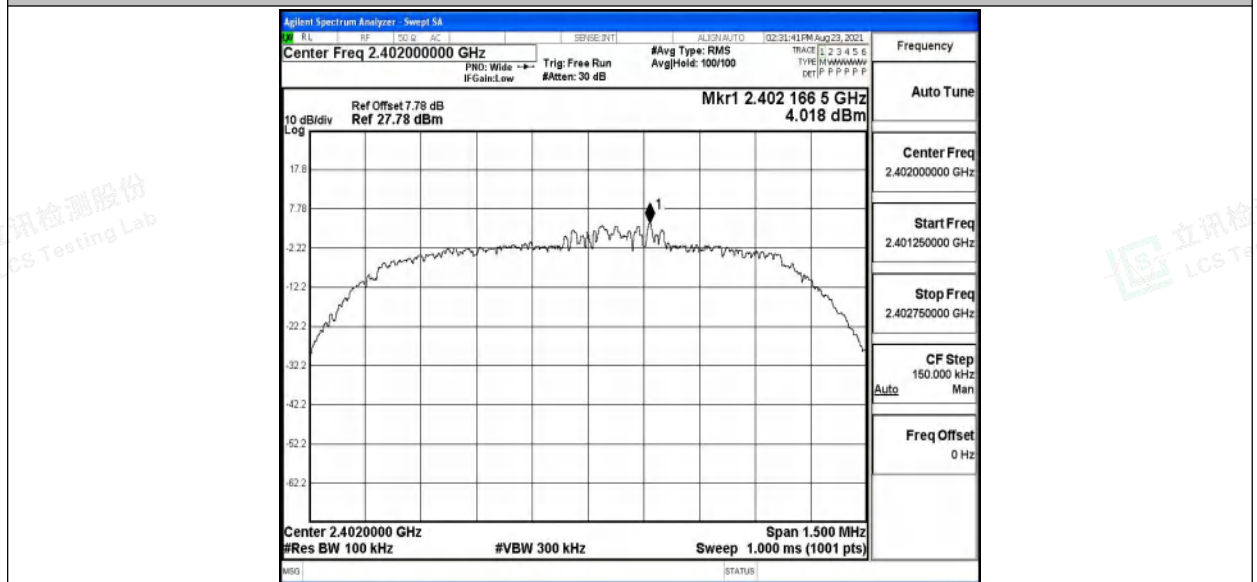


DH5_Ant1_2480_1000~26500



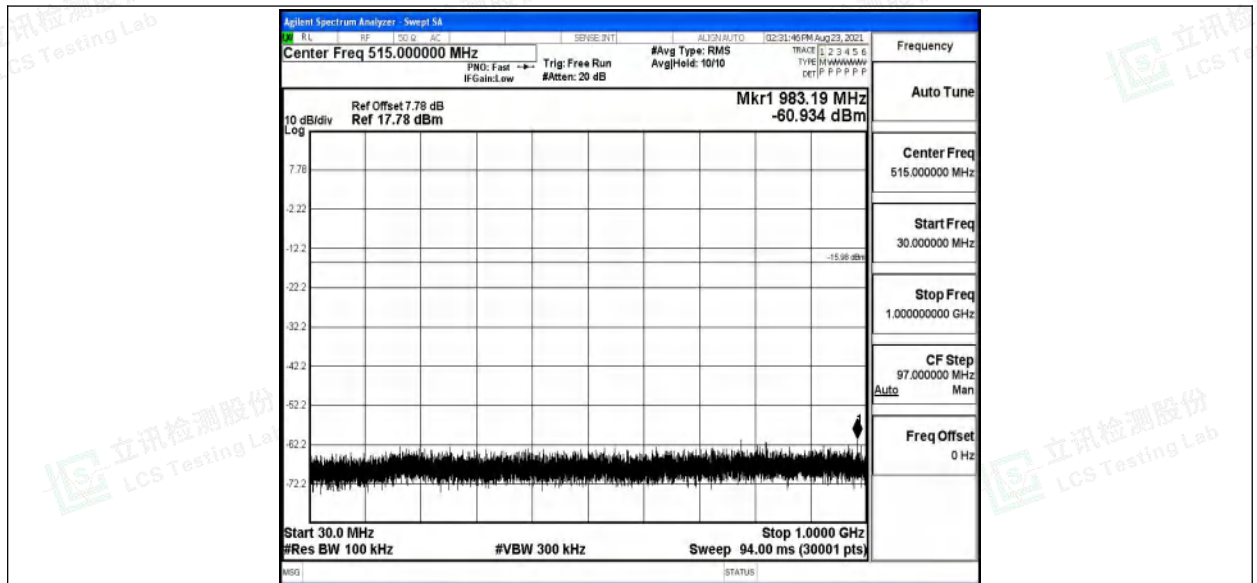


2DH5_Ant1_2402_0~Reference

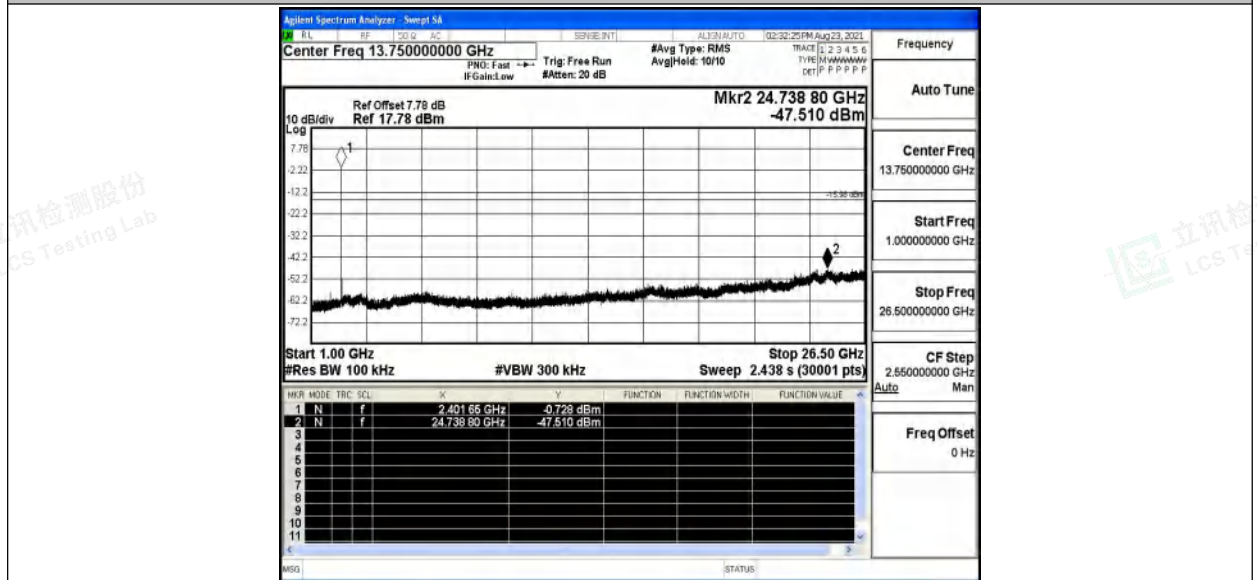


2DH5_Ant1_2402_30~1000



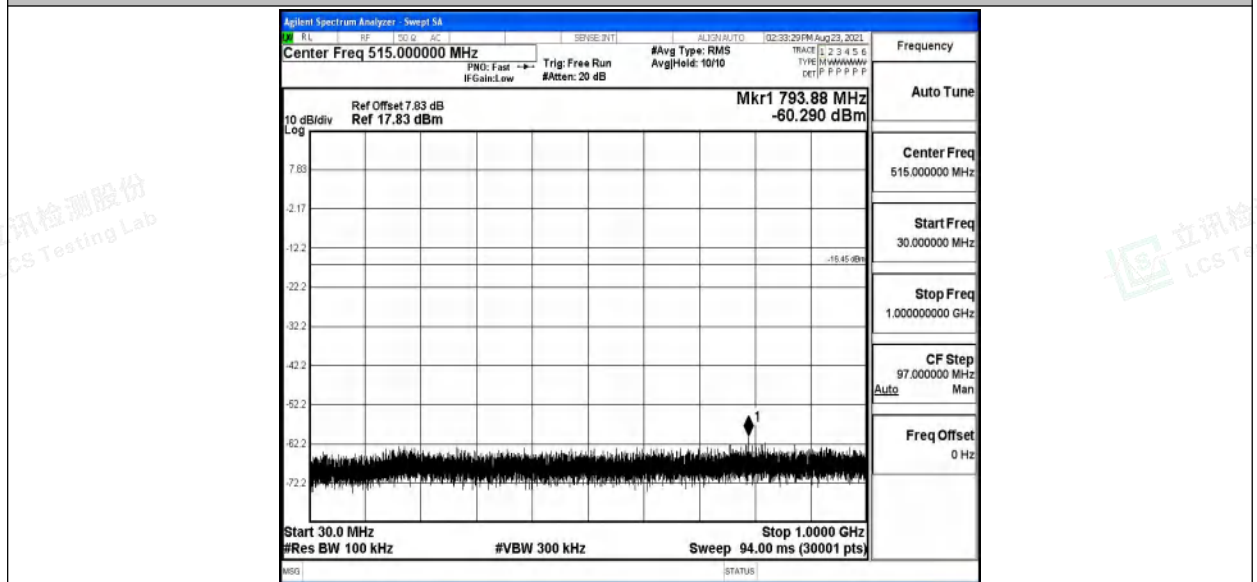
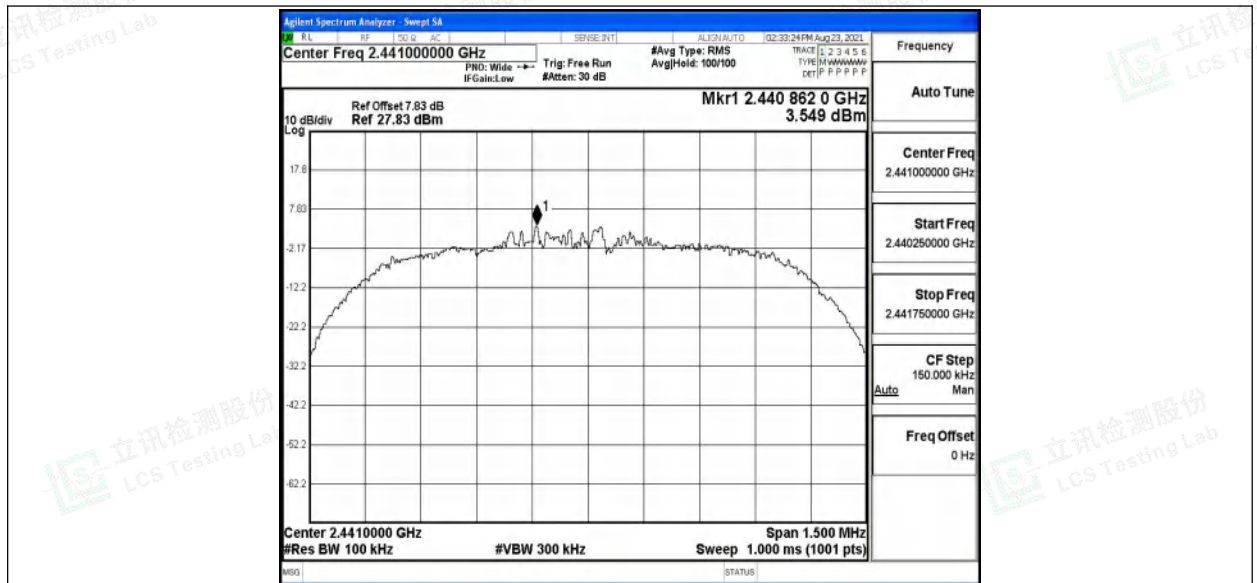


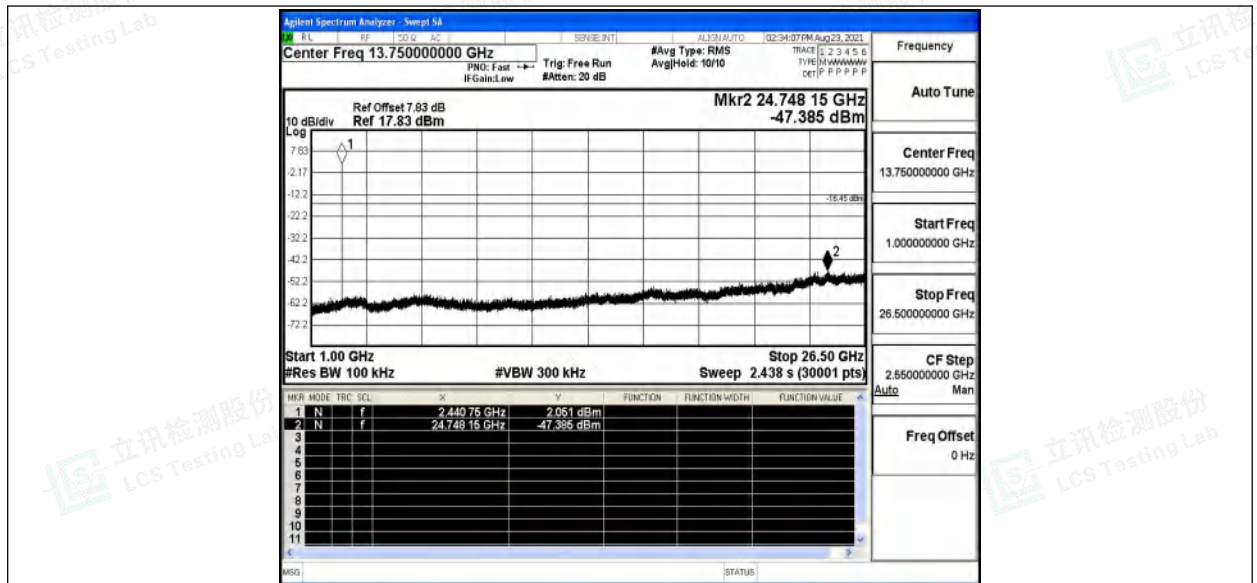
2DH5_Ant1_2402_1000~26500



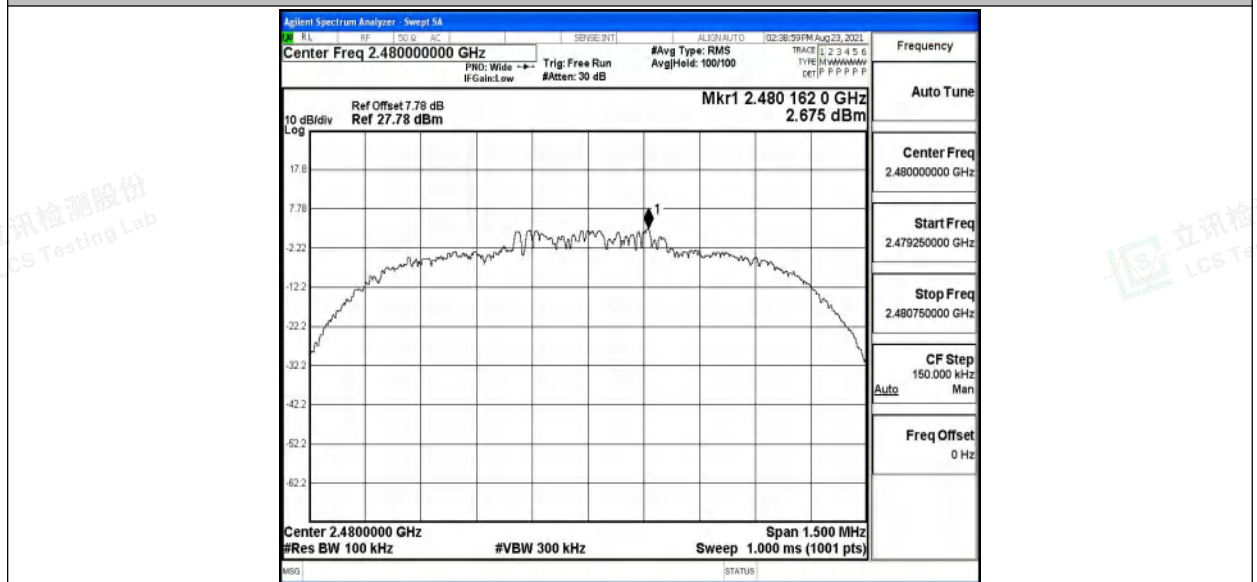
2DH5_Ant1_2441_0~Reference







2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

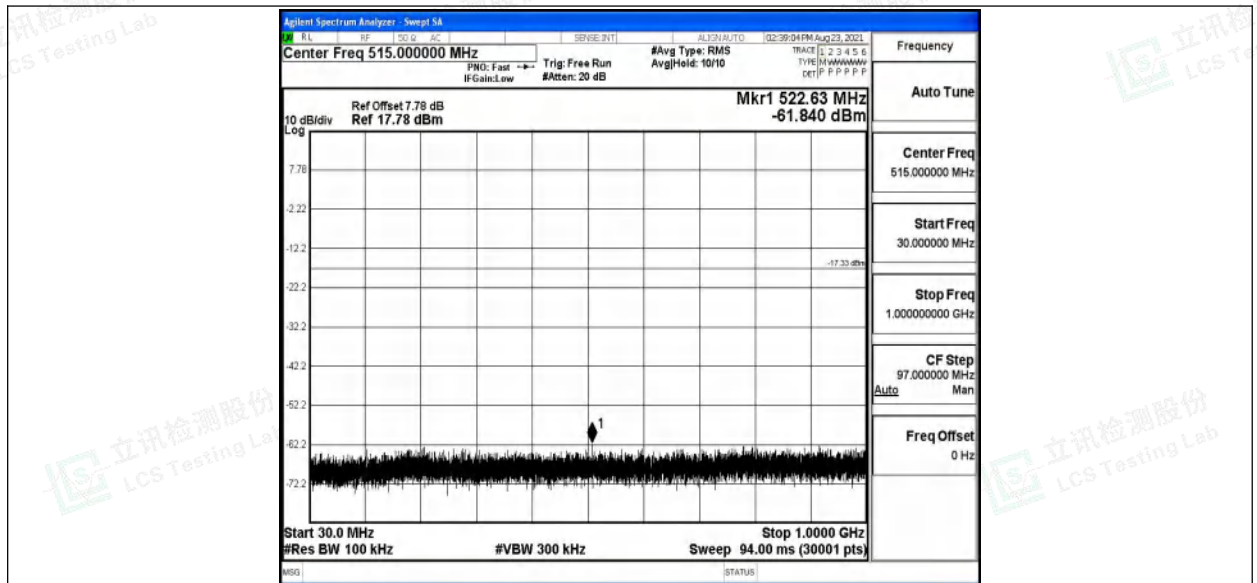


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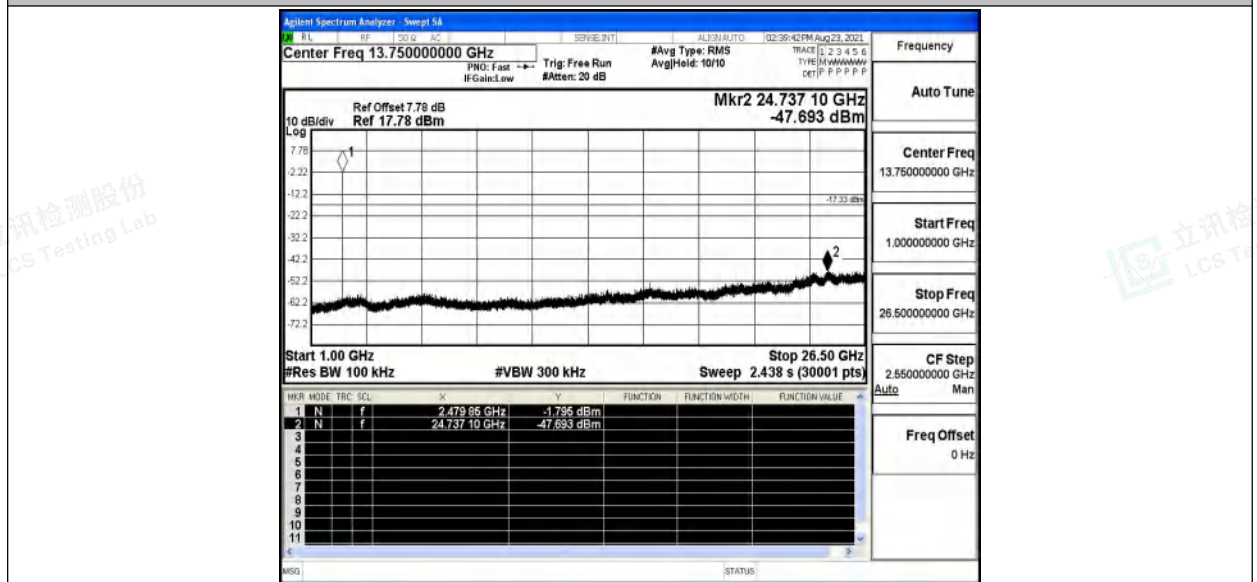
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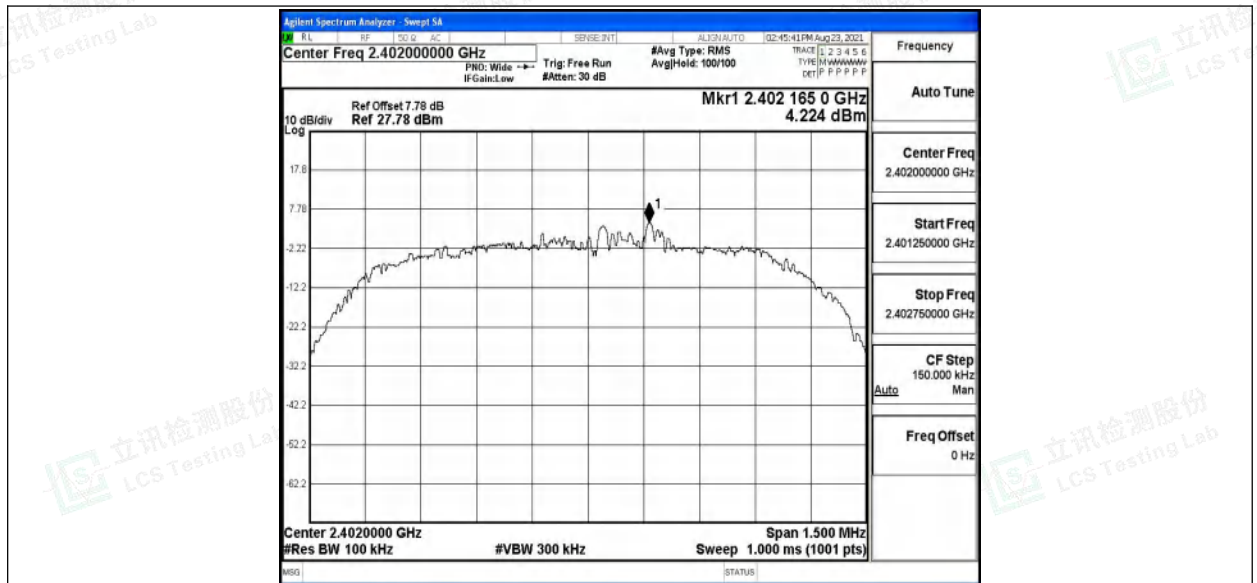


2DH5_Ant1_2480_1000~26500

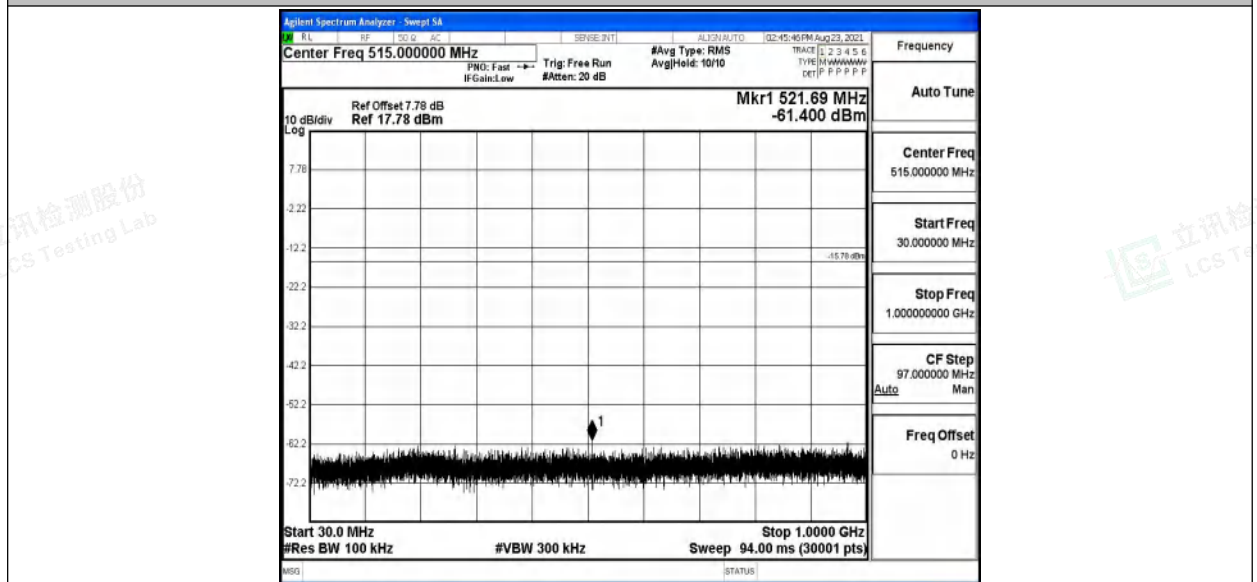


3DH5_Ant1_2402_0~Reference



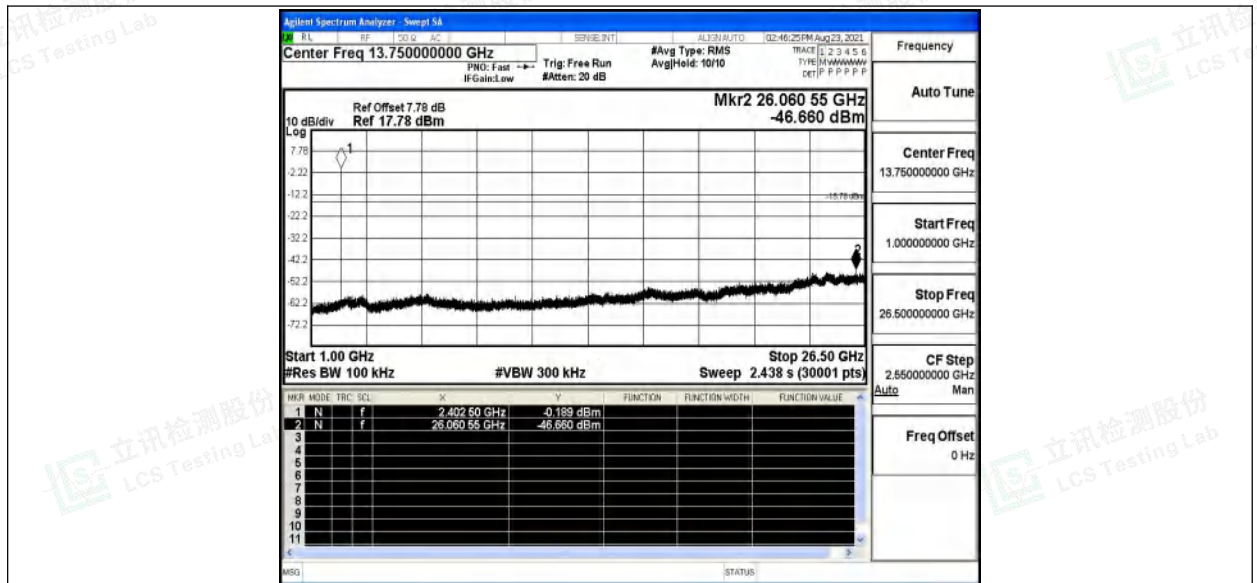


3DH5_Ant1_2402_30~1000

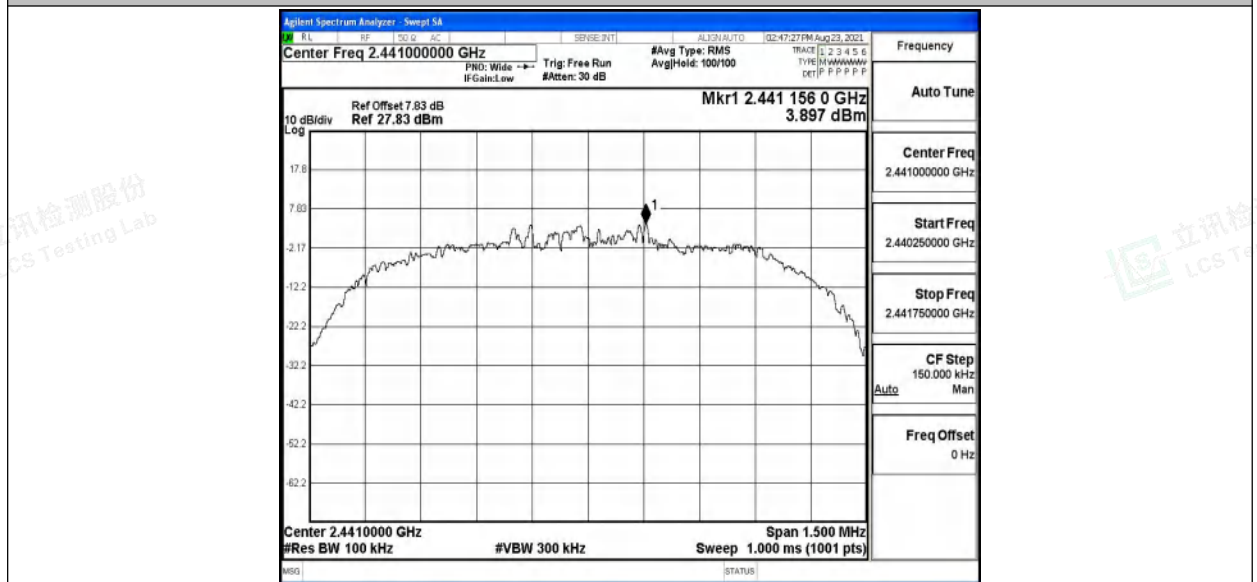


3DH5_Ant1_2402_1000~26500



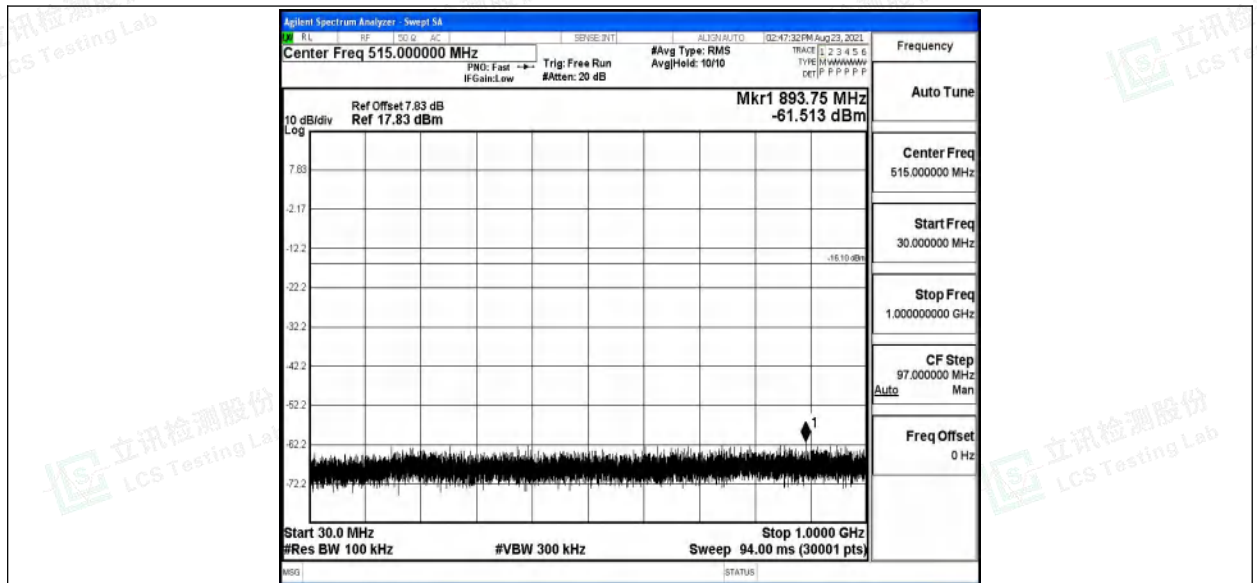


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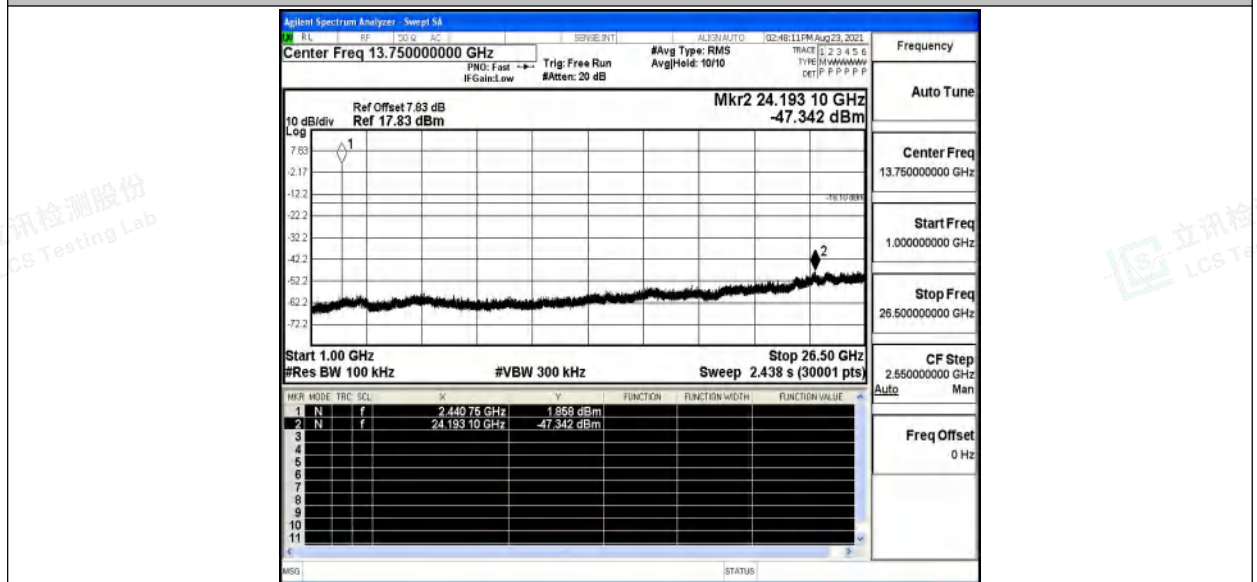


3DH5_Ant1_2441_30~1000



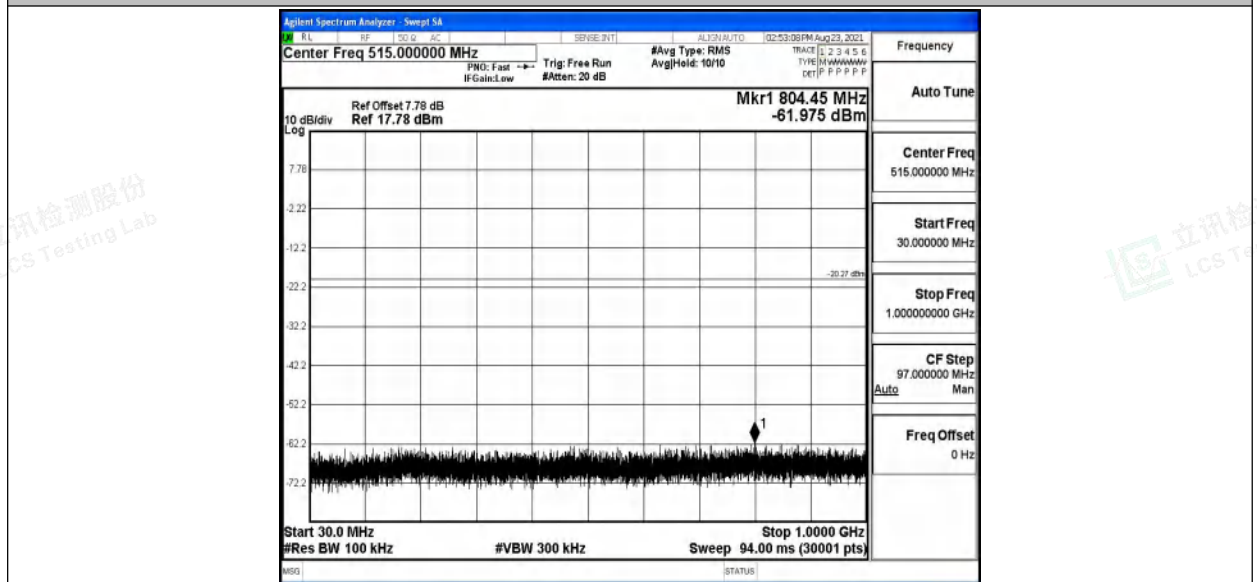
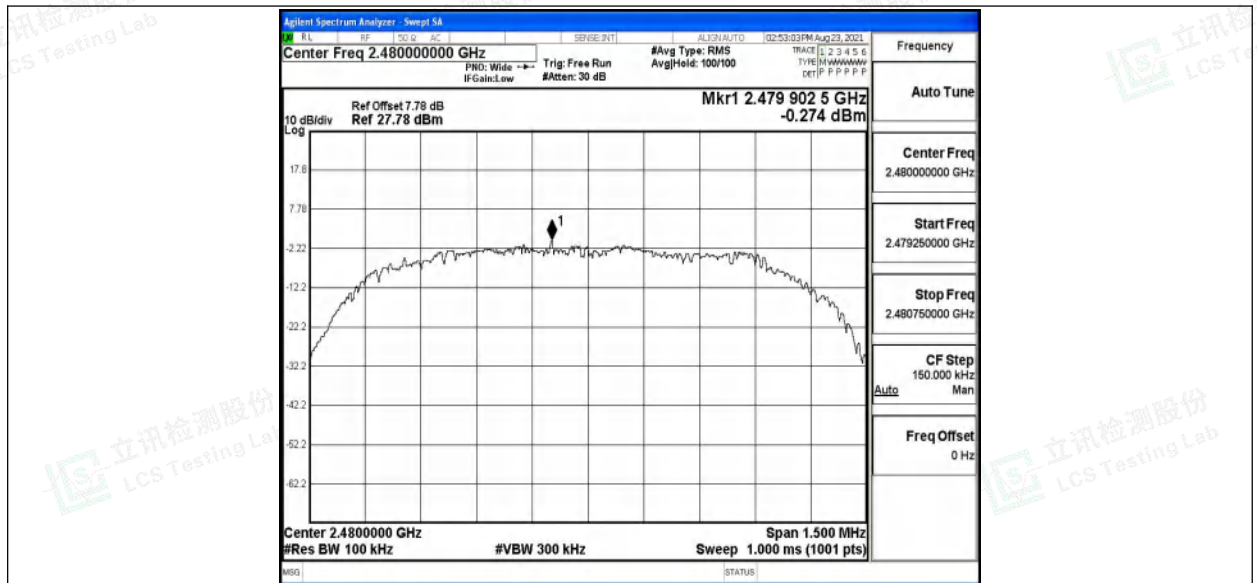


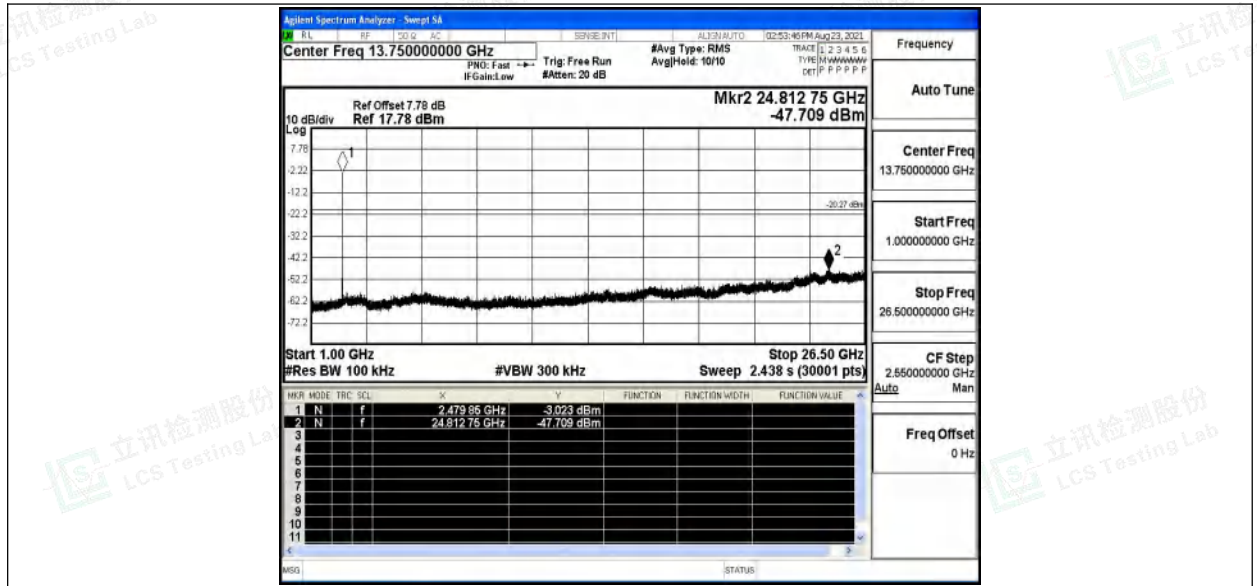
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference









A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2389.250	-48.43	≤-41.20	46.77	≤54	PASS
				AV	2390.000	-48.53	≤-41.20	46.67	≤54	PASS
				Peak	2310.000	-39.28	≤-21.20	55.92	≤74	PASS
				Peak	2385.890	-38.03	≤-21.20	57.17	≤74	PASS
				Peak	2390.000	-40.07	≤-21.20	55.13	≤74	PASS
		High	2480	AV	2483.500	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2498.560	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2500.000	-48.01	≤-41.20	47.19	≤54	PASS
				Peak	2483.500	-38.13	≤-21.20	57.07	≤74	PASS
				Peak	2483.520	-38.13	≤-21.20	57.07	≤74	PASS
				Peak	2500.000	-39.77	≤-21.20	55.43	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.31	≤-21.20	54.89	≤74	PASS
				Peak	2357.330	-38.03	≤-21.20	57.17	≤74	PASS
				Peak	2390.000	-40.28	≤-21.20	54.92	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.4	≤-21.20	54.80	≤74	PASS
				Peak	2484.880	-38	≤-21.20	57.20	≤74	PASS
				Peak	2500.000	-40.14	≤-21.20	55.06	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49	≤-41.20	46.20	≤54	PASS
				AV	2386.835	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2390.000	-48.56	≤-41.20	46.64	≤54	PASS
				Peak	2310.000	-40.3	≤-21.20	54.90	≤74	PASS
				Peak	2328.245	-38.13	≤-21.20	57.07	≤74	PASS
				Peak	2390.000	-38.8	≤-21.20	56.40	≤74	PASS
		High	2480	AV	2483.500	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2483.520	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2500.000	-47.96	≤-41.20	47.24	≤54	PASS
				Peak	2483.500	-40.02	≤-21.20	55.18	≤74	PASS
				Peak	2498.400	-37.55	≤-21.20	57.65	≤74	PASS
				Peak	2500.000	-39.82	≤-21.20	55.38	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2348.090	-38.17	≤-21.20	57.03	≤74	PASS
				Peak	2390.000	-40.74	≤-21.20	54.46	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.56	≤-21.20	55.64	≤74	PASS



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3DH5	Ant1			Peak	2496.400	-36.94	≤-21.20	58.26	≤74	PASS
				Peak	2500.000	-39.13	≤-21.20	56.07	≤74	PASS
		Low	2402	AV	2310.000	-48.95	≤-41.20	46.25	≤54	PASS
				AV	2389.775	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2390.000	-48.5	≤-41.20	46.70	≤54	PASS
				Peak	2310.000	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2355.125	-37.46	≤-21.20	57.74	≤74	PASS
				Peak	2390.000	-39.74	≤-21.20	55.46	≤74	PASS
		High	2480	AV	2483.500	-47.52	≤-41.20	47.68	≤54	PASS
				AV	2483.520	-47.52	≤-41.20	47.68	≤54	PASS
				AV	2500.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2483.500	-40.08	≤-21.20	55.12	≤74	PASS
				Peak	2485.600	-37.78	≤-21.20	57.42	≤74	PASS
				Peak	2500.000	-39.65	≤-21.20	55.55	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2388.200	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2390.000	-39.72	≤-21.20	55.48	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.05	≤-21.20	55.15	≤74	PASS
				Peak	2488.960	-37.33	≤-21.20	57.87	≤74	PASS
				Peak	2500.000	-37.86	≤-21.20	57.34	≤74	PASS

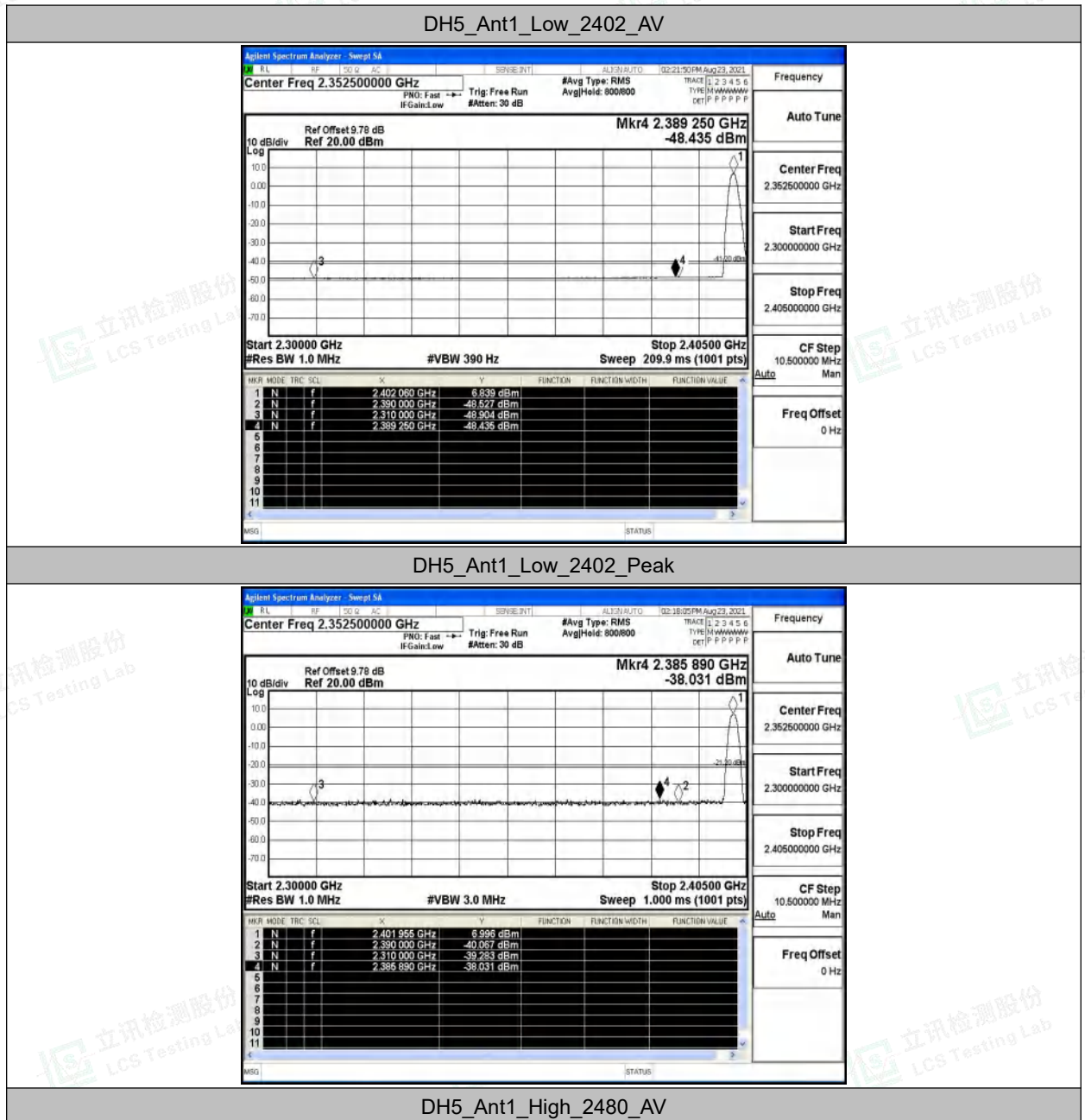
Note:

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

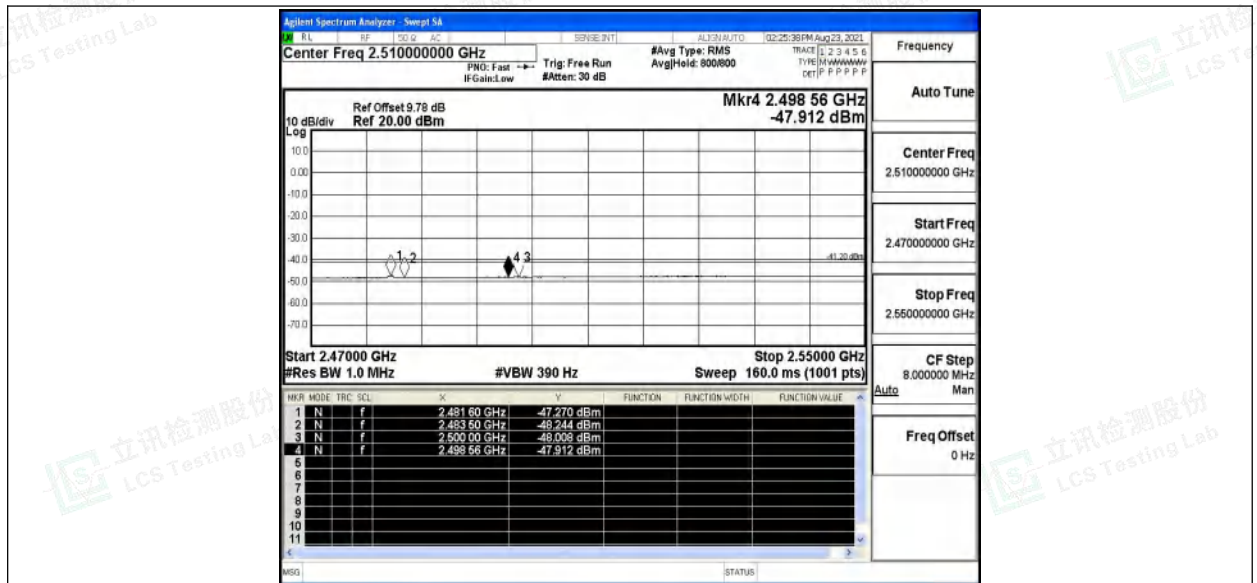


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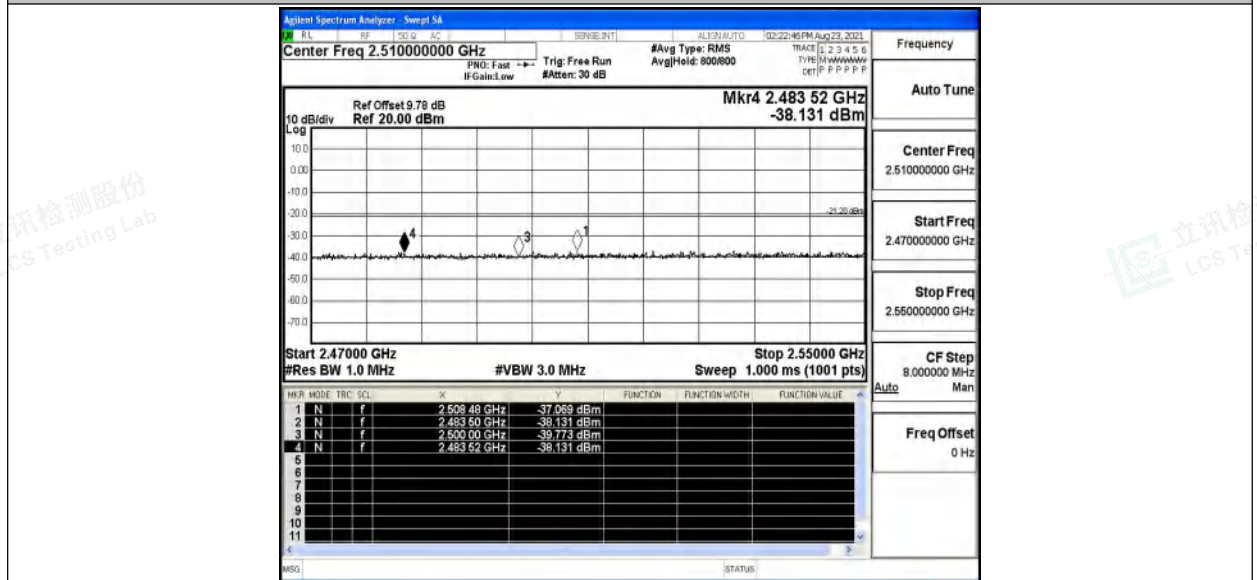
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

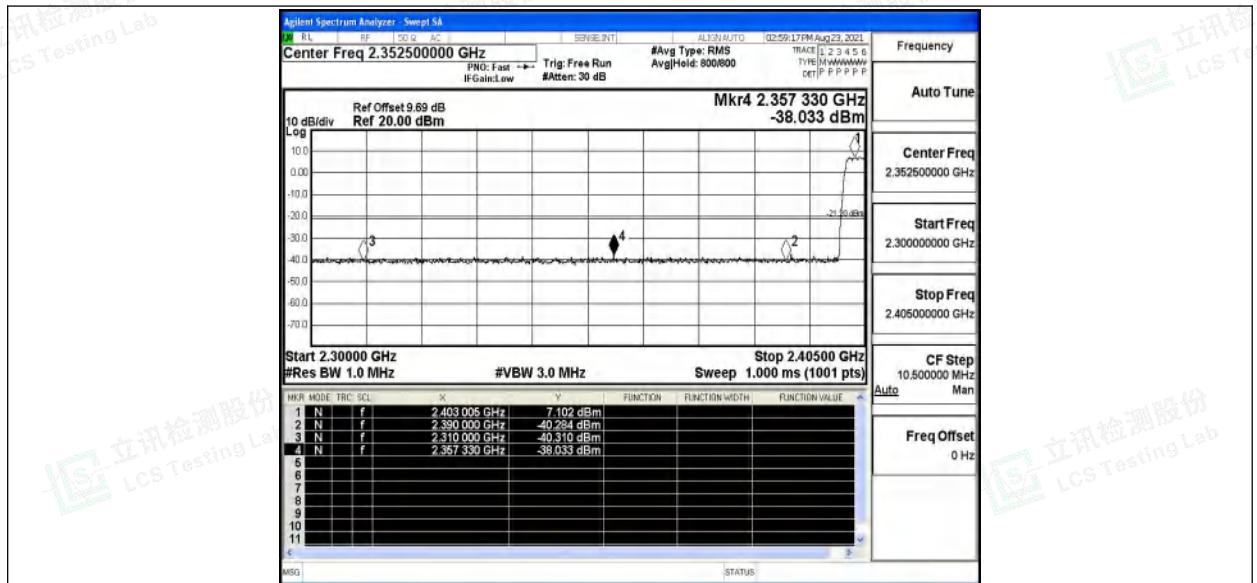


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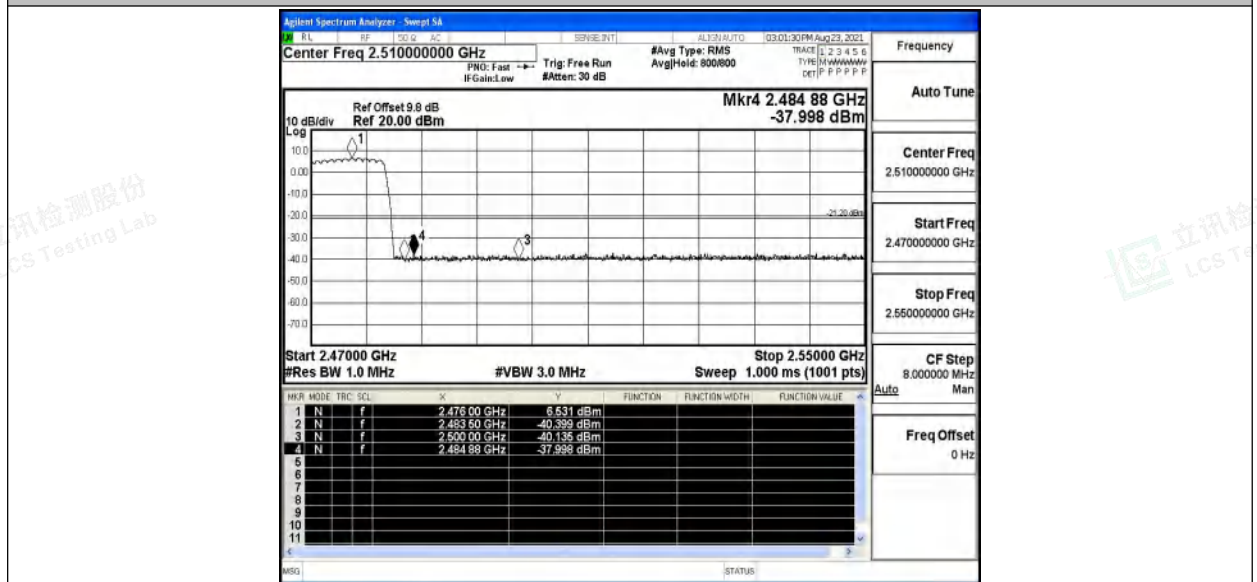
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

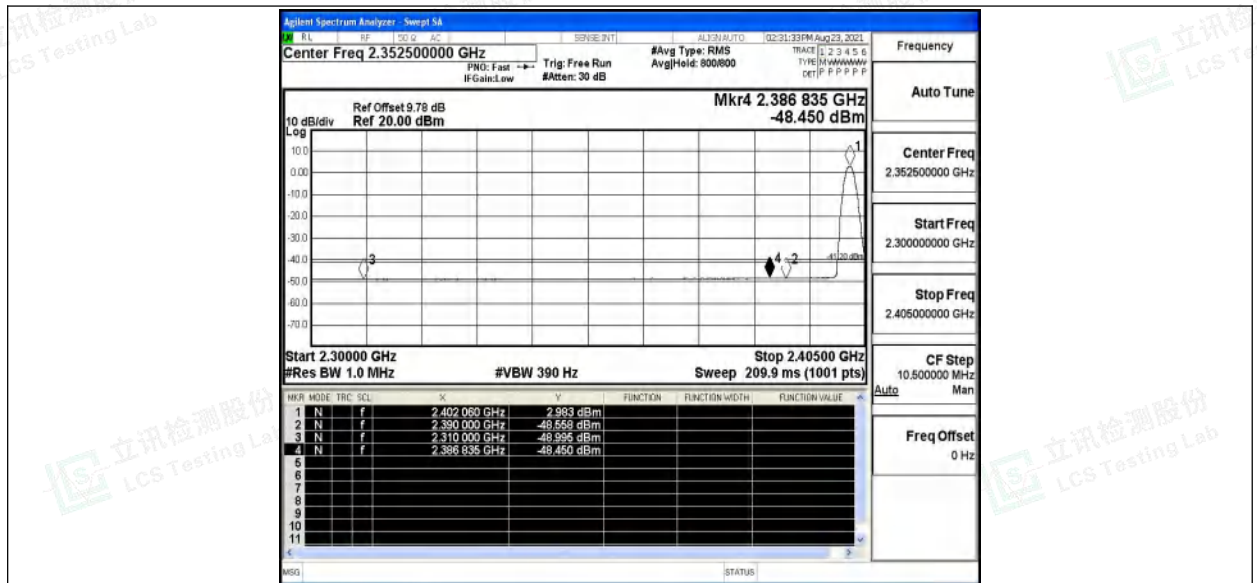


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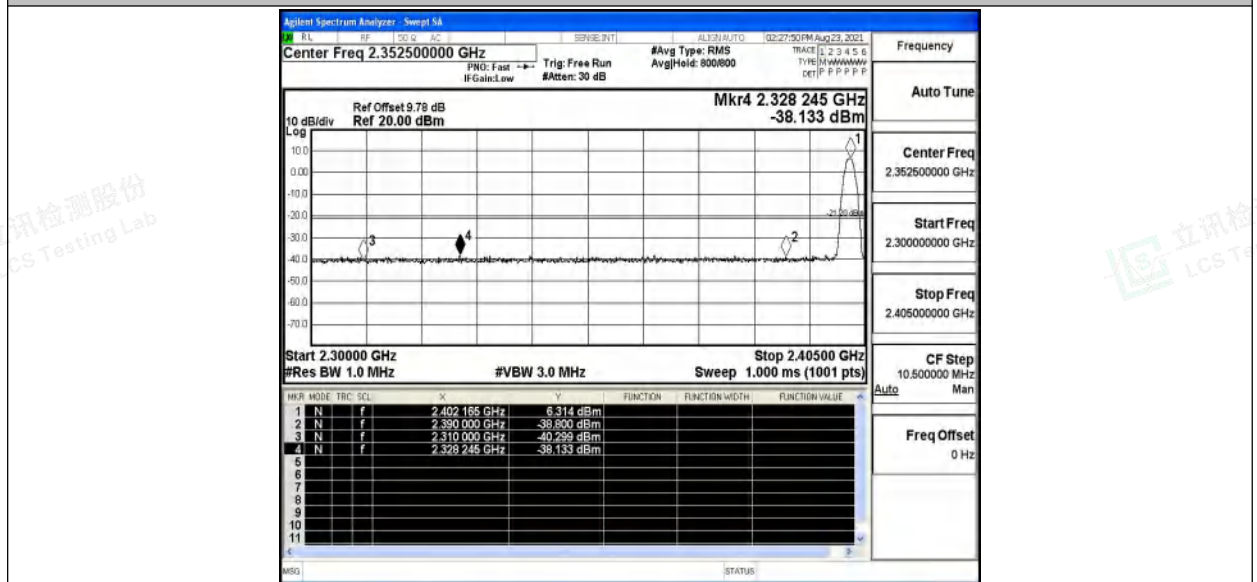
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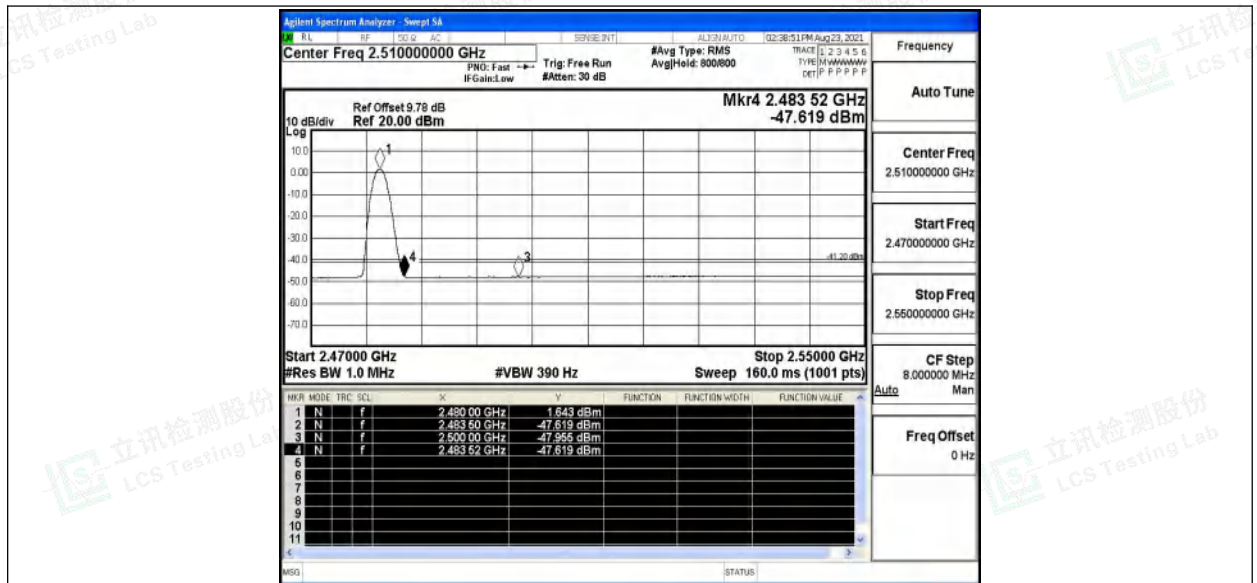


2DH5_Ant1_Low_2402_Peak

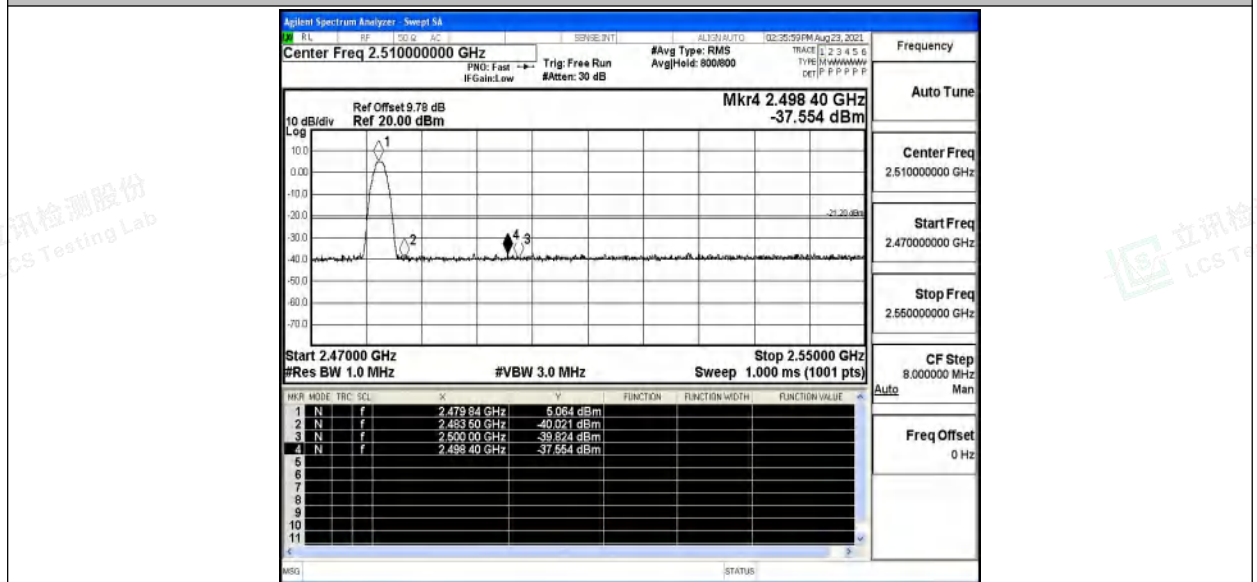


2DH5_Ant1_High_2480_AV



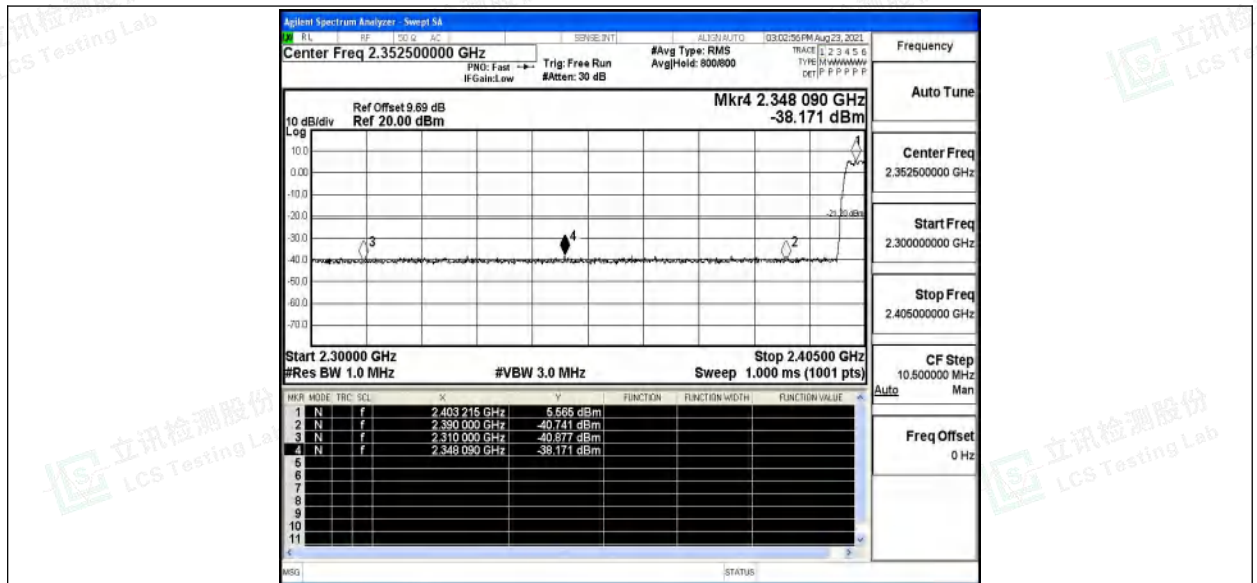


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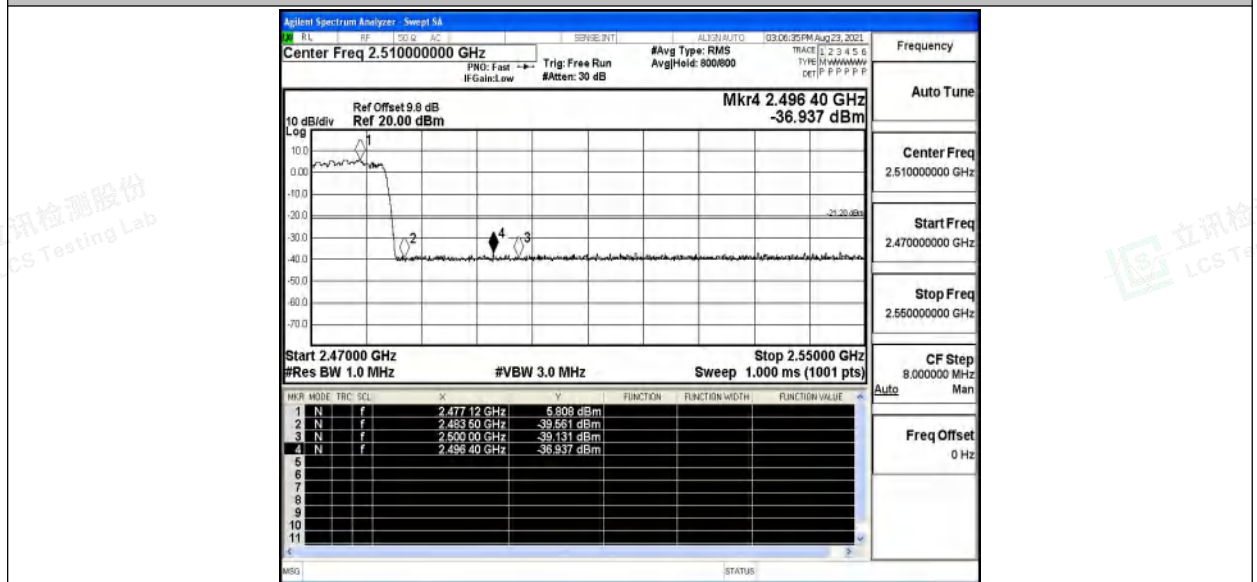


2DH5_Ant1_Low_Hop_2402_Peak





2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

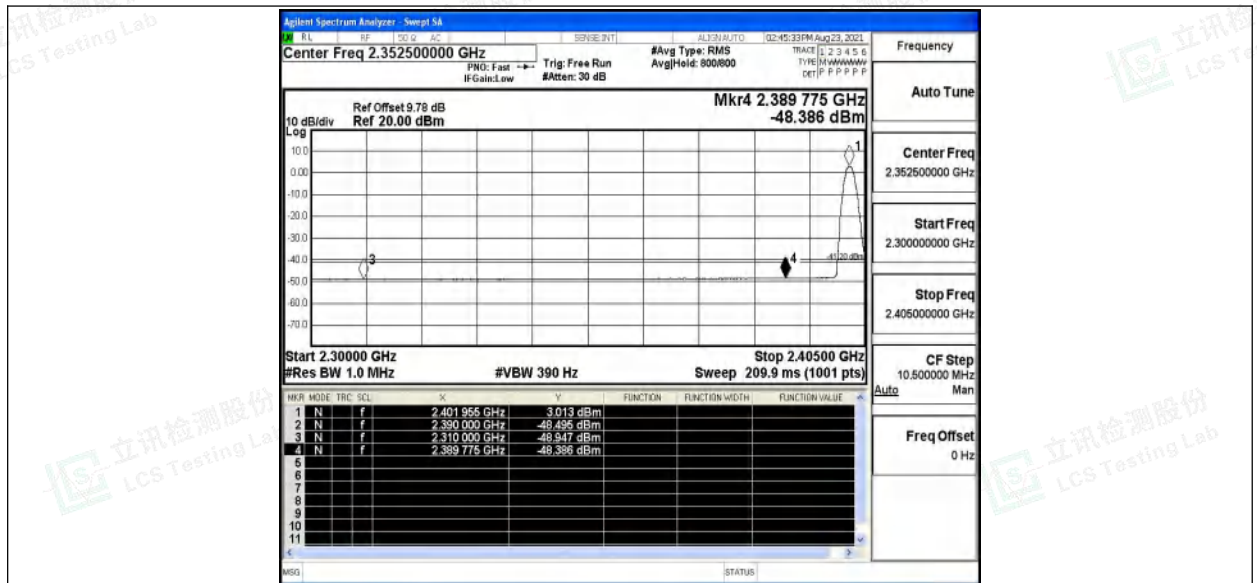


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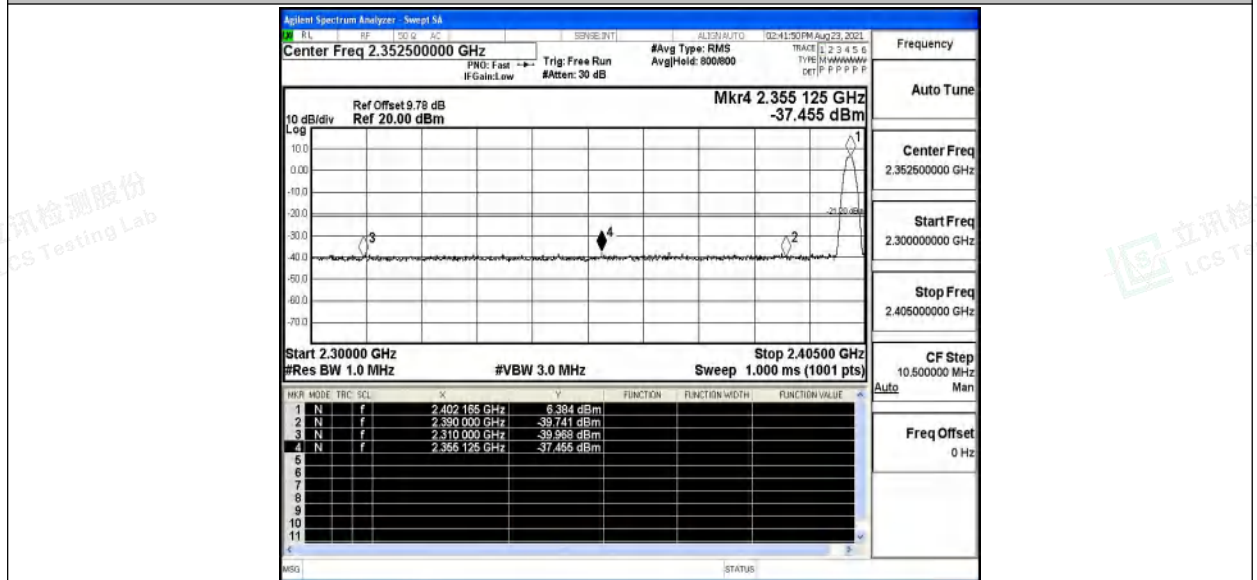
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

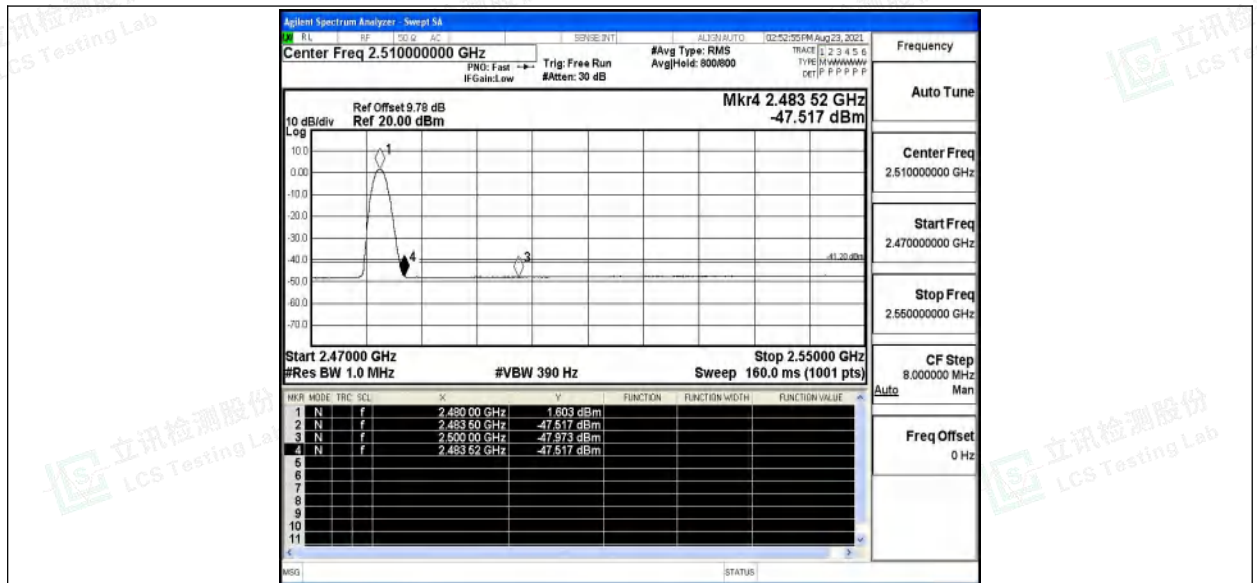


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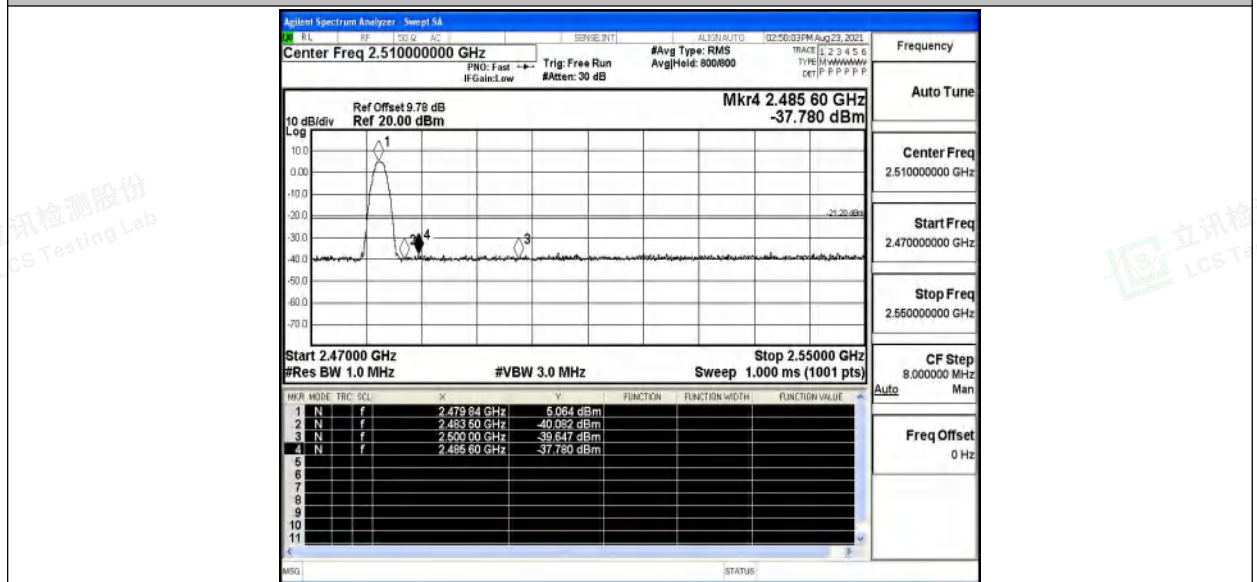
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

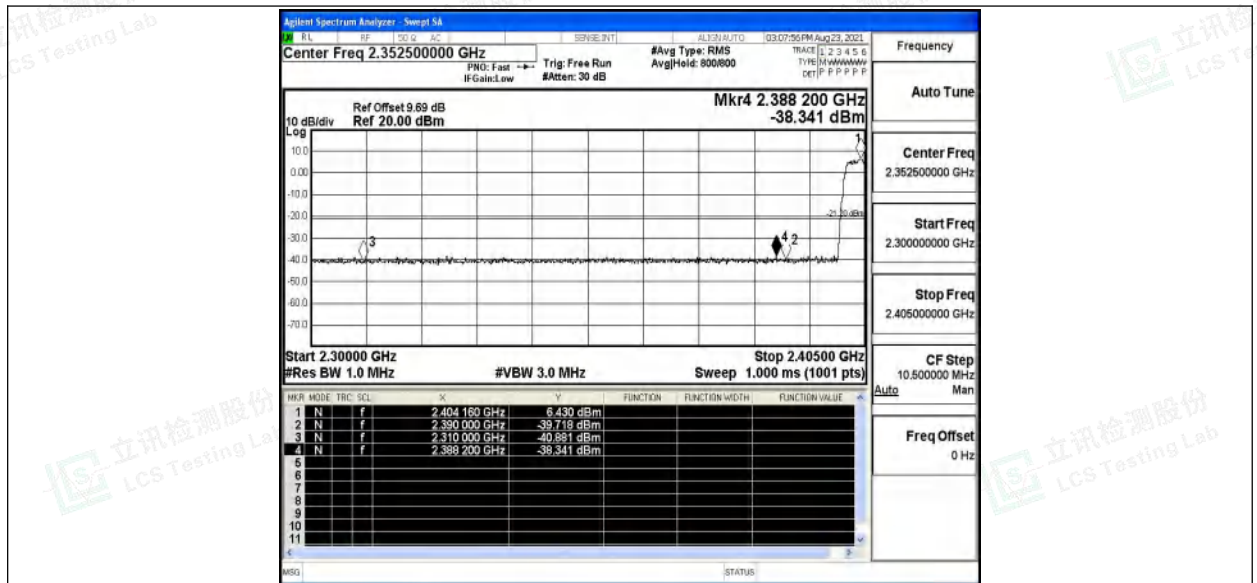


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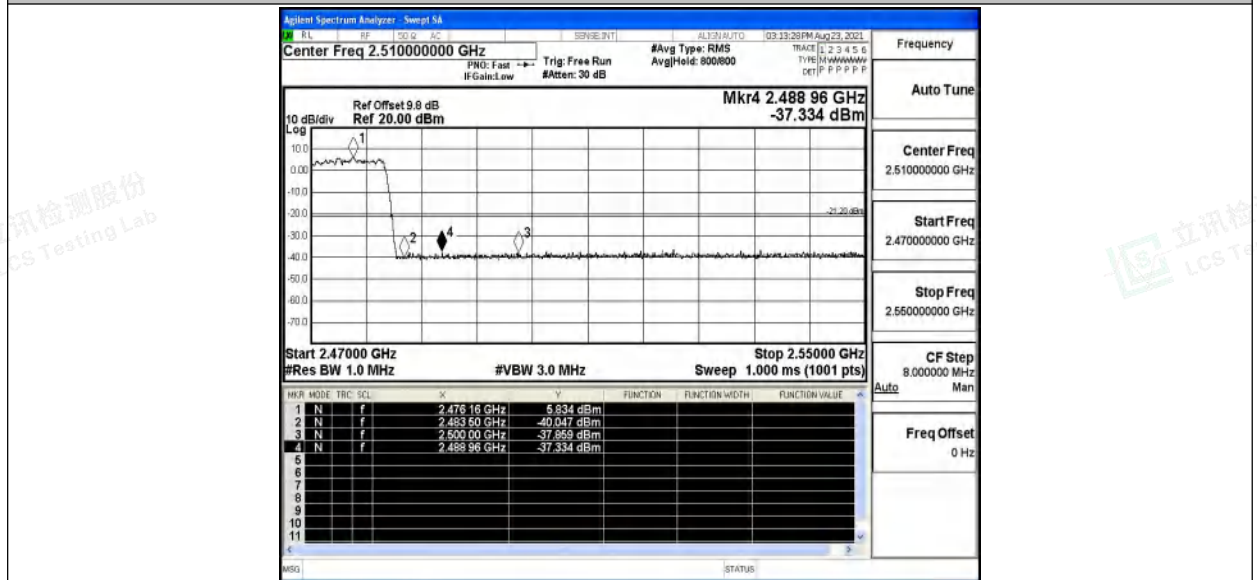
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3DH5_Ant1_High_Hop_2480_Peak



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