



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth headset

Test Model: X50Pro

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

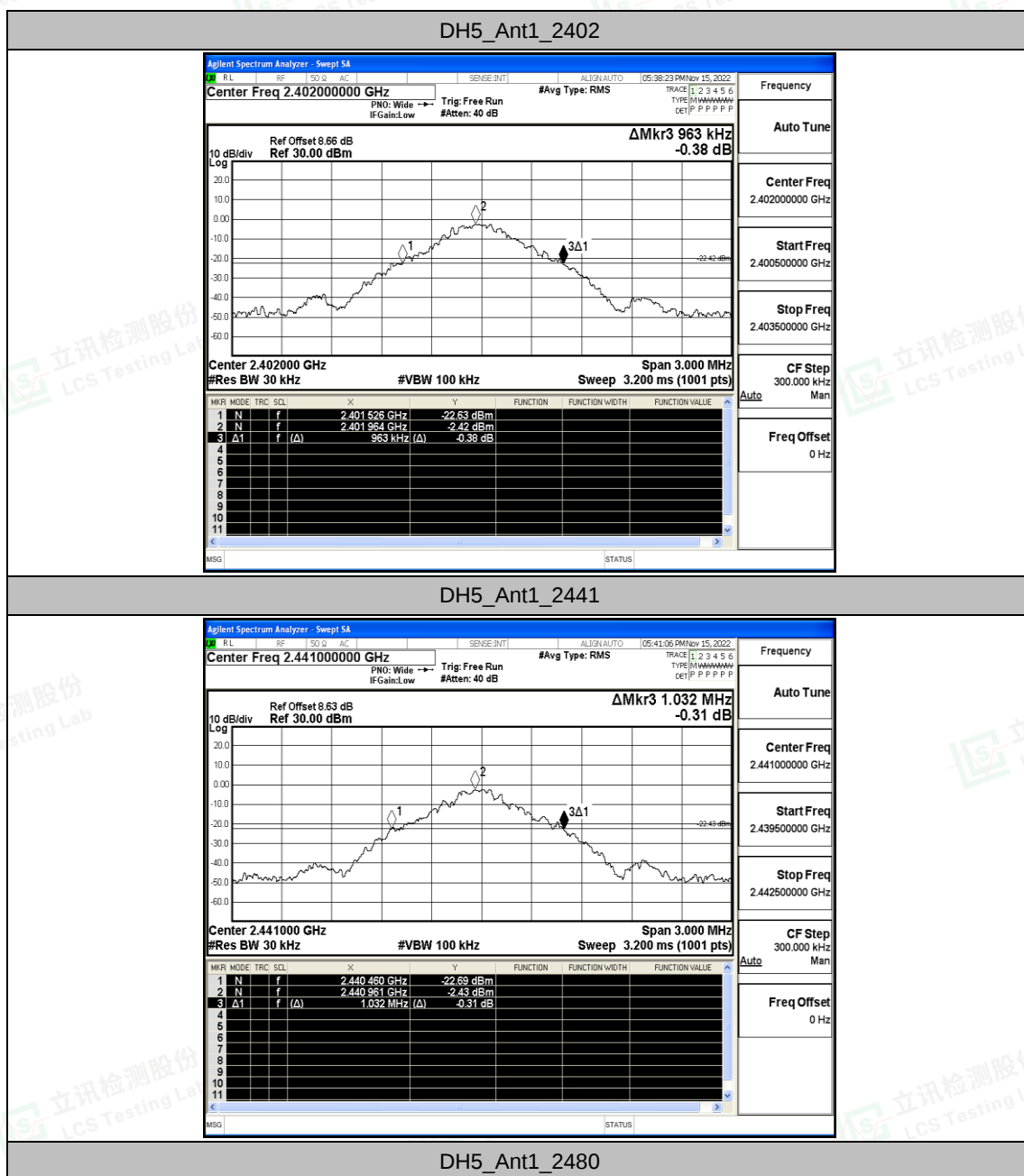
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.526	2402.489	PASS
		2441	1.032	2440.460	2441.492	PASS
		2480	1.020	2479.460	2480.480	PASS
2DH5	Ant1	2402	1.329	2401.322	2402.651	PASS
		2441	1.314	2440.334	2441.648	PASS
		2480	1.359	2479.310	2480.669	PASS
3DH5	Ant1	2402	1.317	2401.331	2402.648	PASS
		2441	1.302	2440.334	2441.636	PASS
		2480	1.296	2479.340	2480.636	PASS





Test Graphs

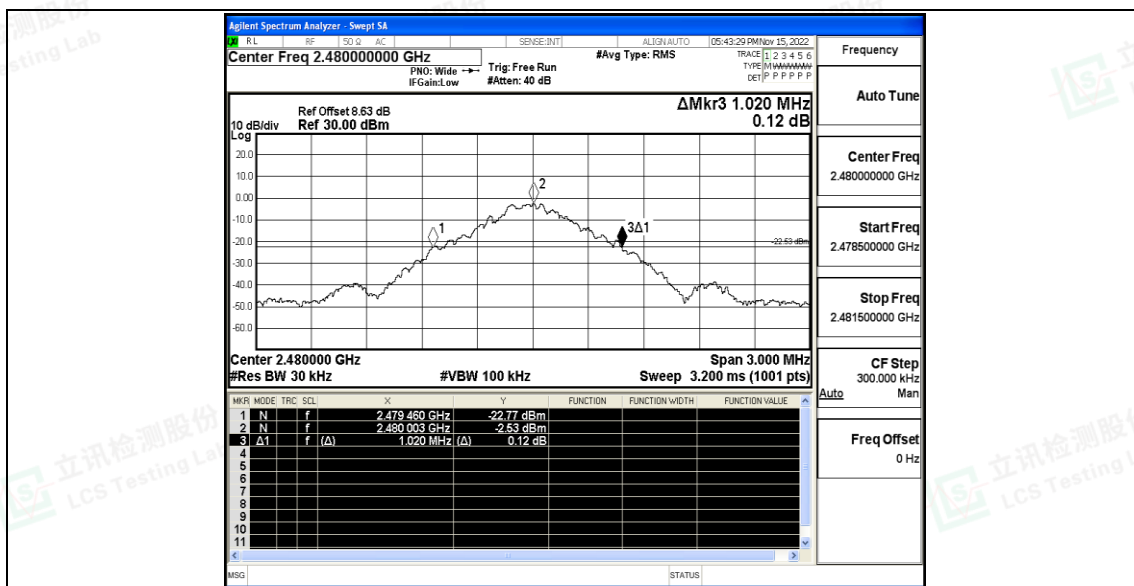


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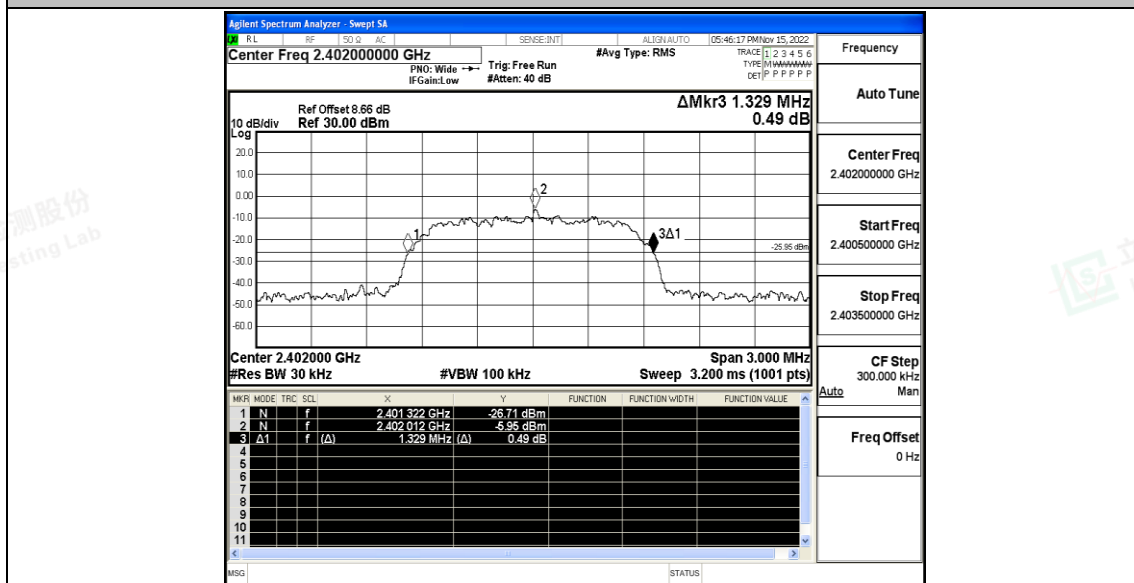
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2DH5_Ant1_2402



2DH5_Ant1_2441

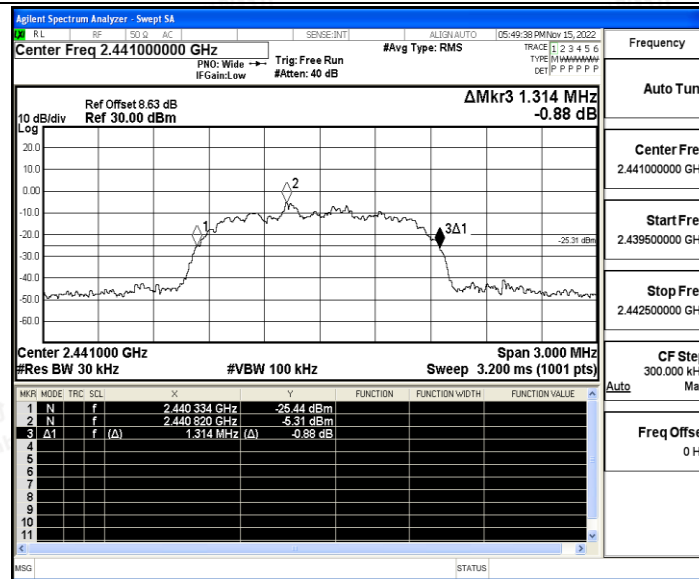


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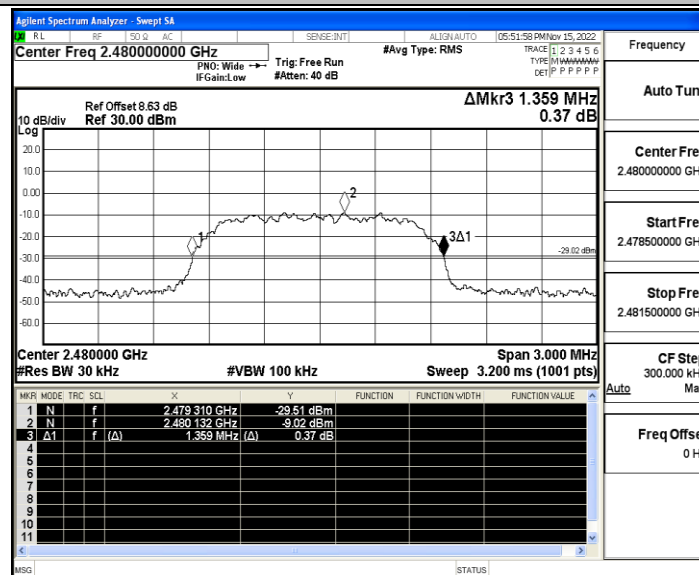
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2DH5_Ant1_2480



3DH5_Ant1_2402

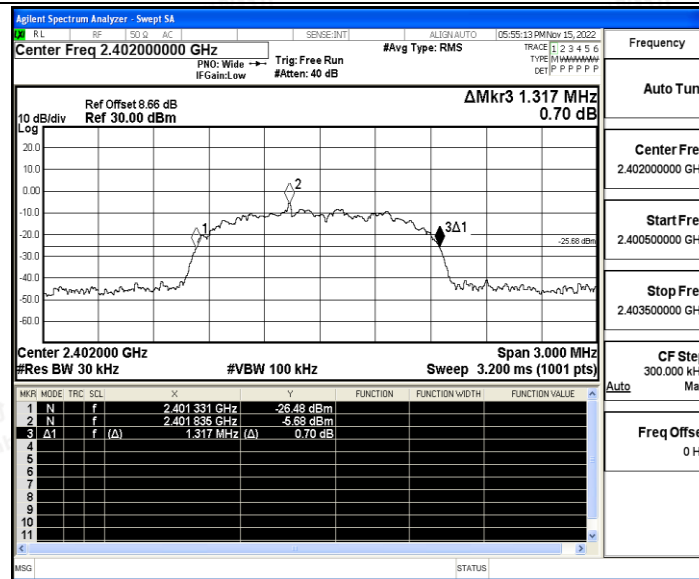


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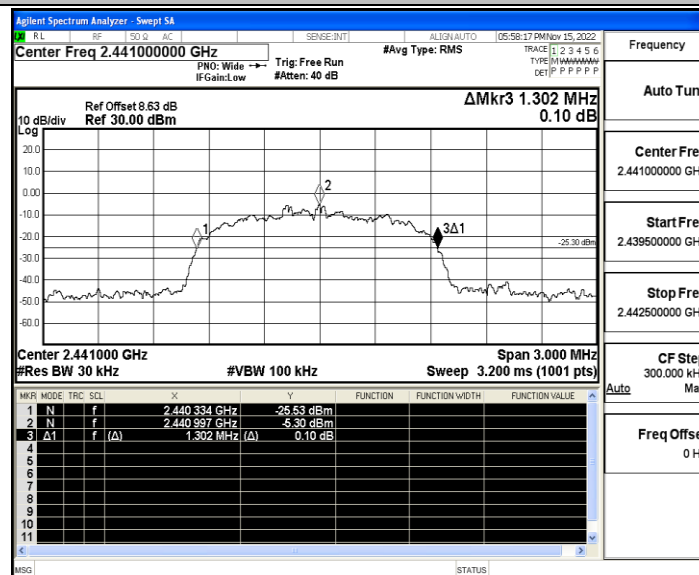
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3DH5_Ant1_2441



3DH5_Ant1_2480

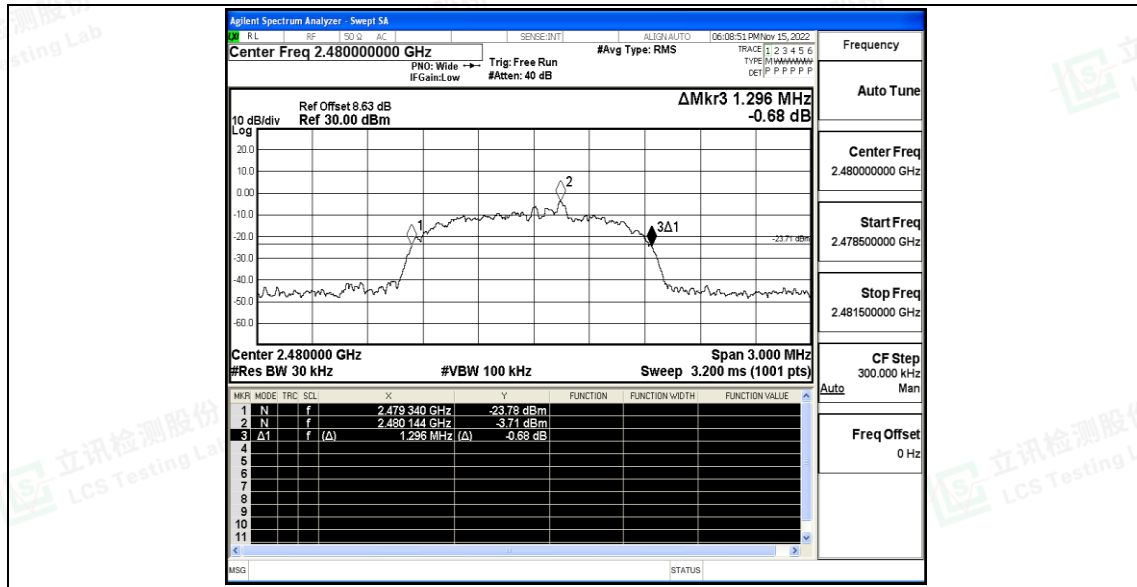


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A.2 Maximum conducted output power

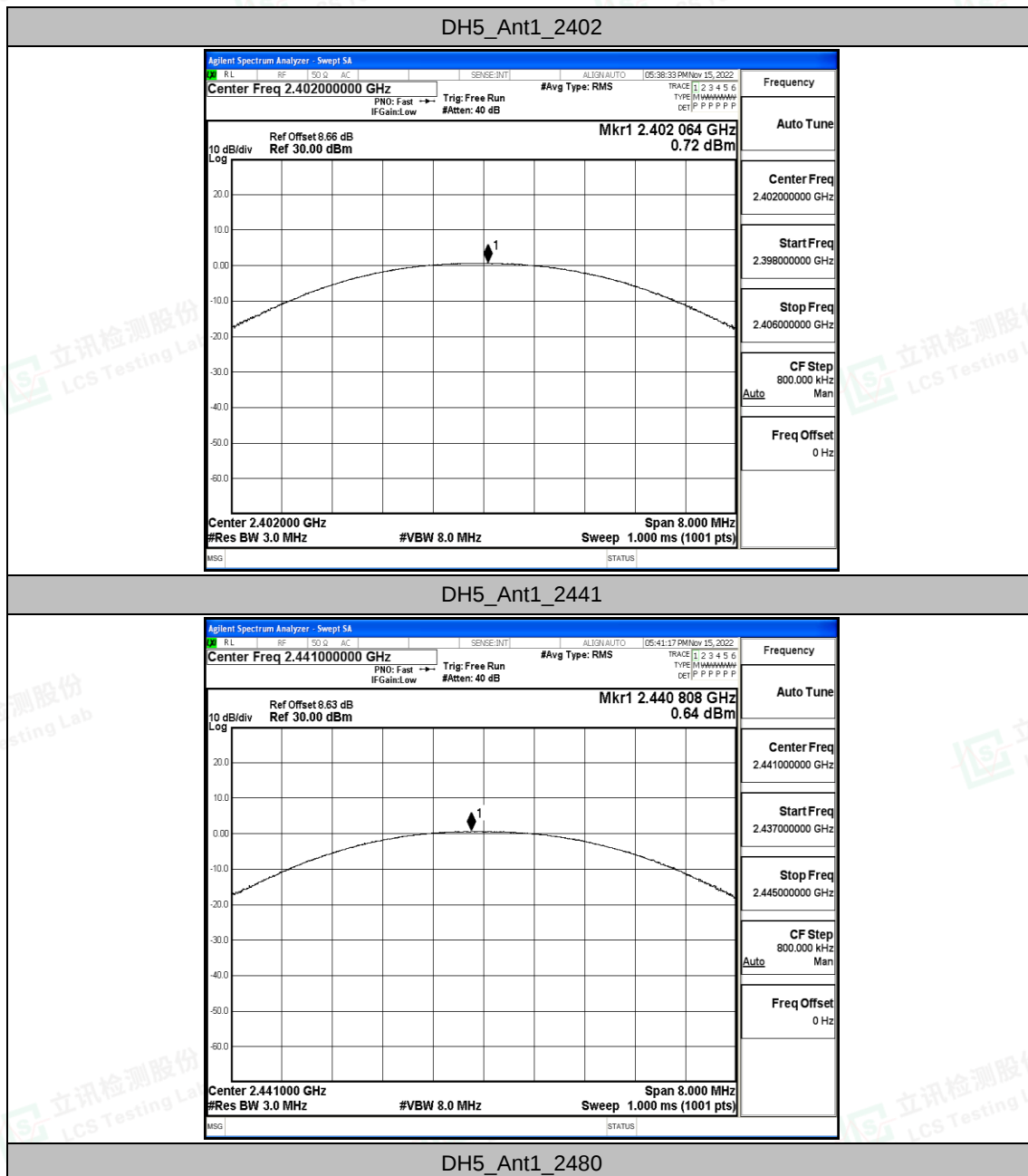
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.72	≤20.97	PASS
		2441	0.64	≤20.97	PASS
		2480	0.55	≤20.97	PASS
2DH5	Ant1	2402	0.38	≤20.97	PASS
		2441	0.34	≤20.97	PASS
		2480	0.22	≤20.97	PASS
3DH5	Ant1	2402	0.32	≤20.97	PASS
		2441	0.30	≤20.97	PASS
		2480	0.23	≤20.97	PASS





Test Graphs

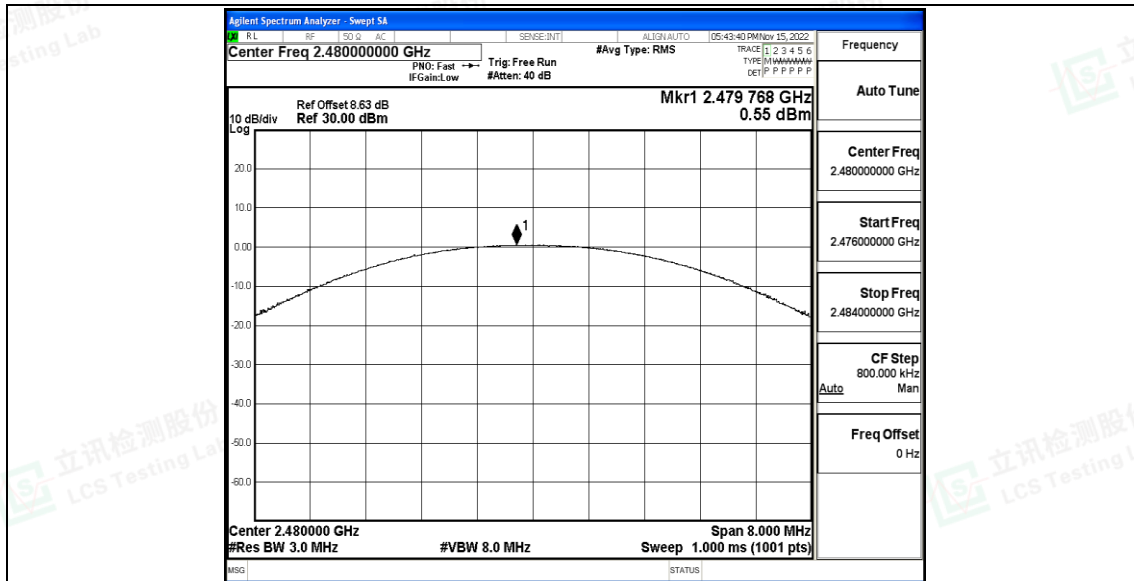


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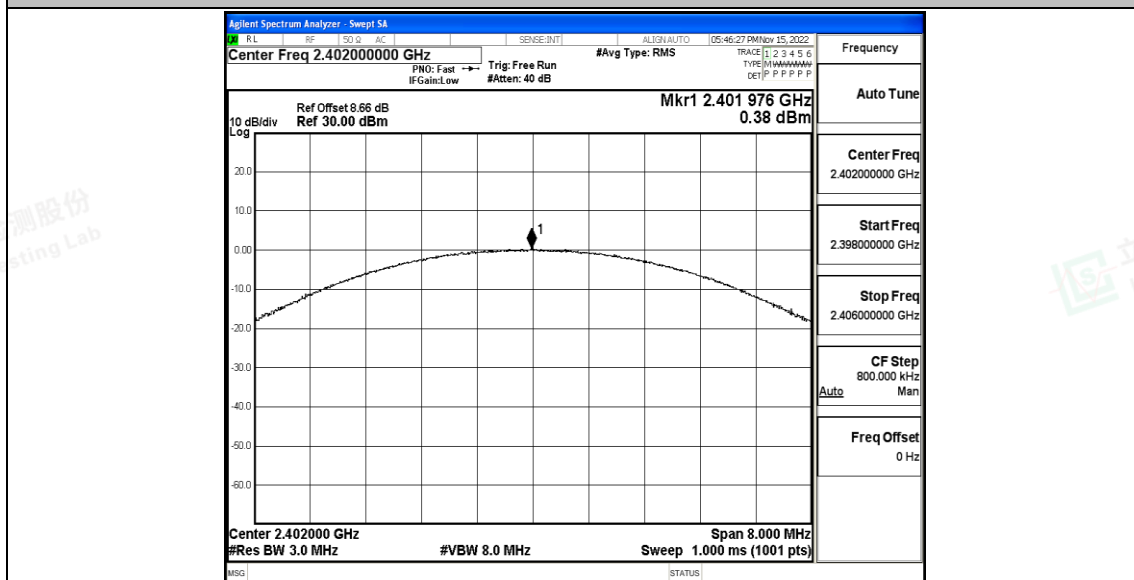
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

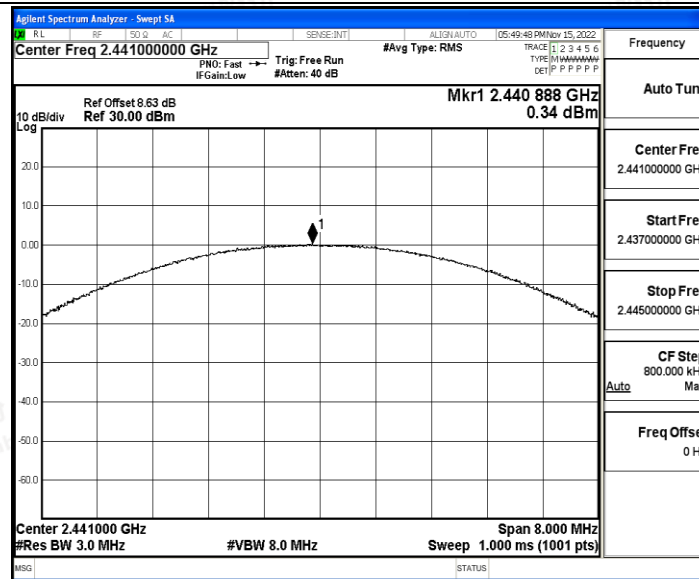


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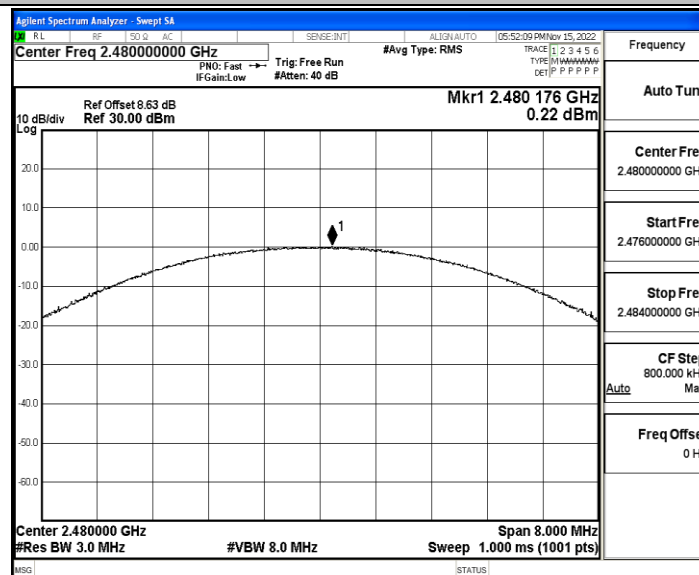
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480



3DH5_Ant1_2402

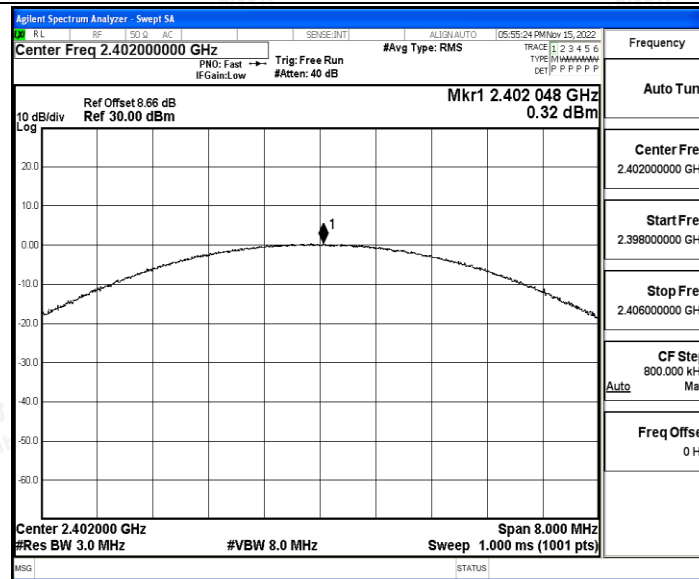


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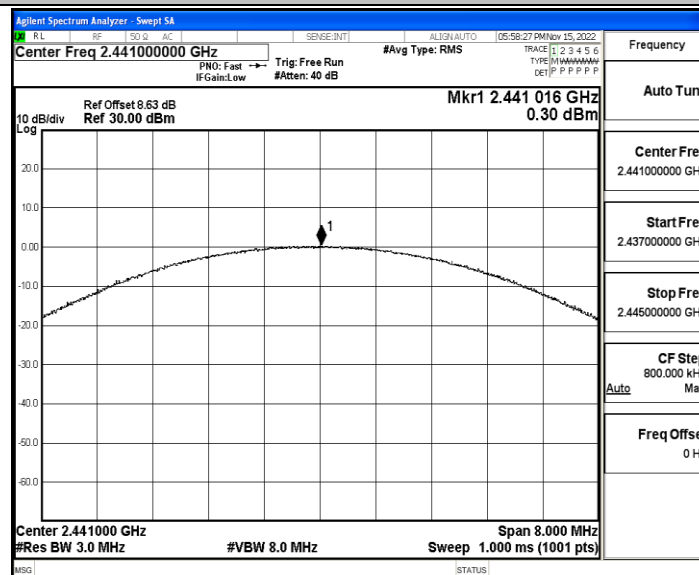
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3DH5_Ant1_2441



3DH5_Ant1_2480

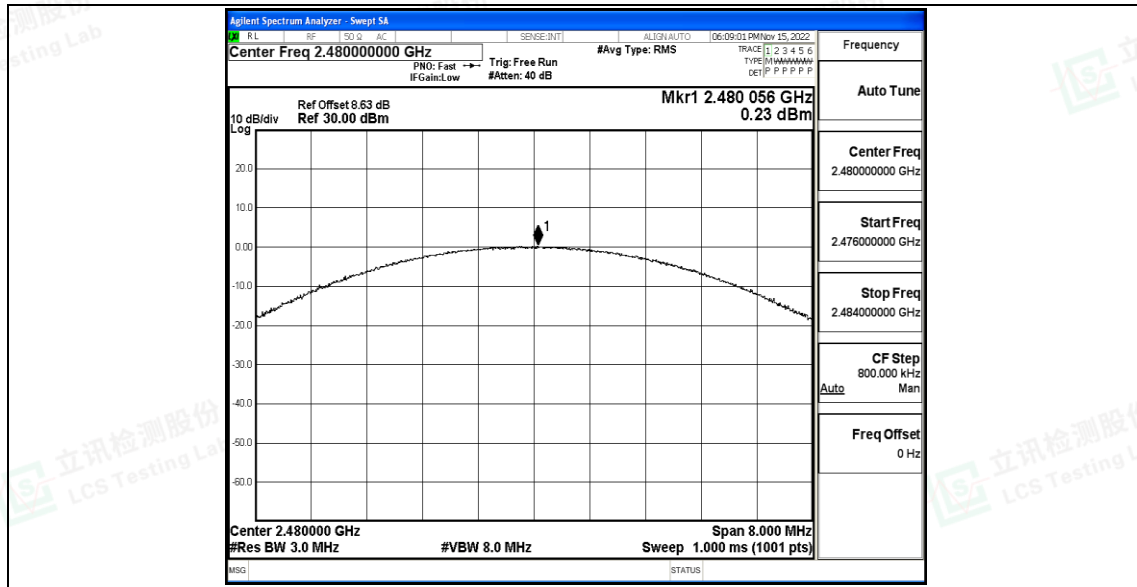


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A.3 Carrier frequency separation

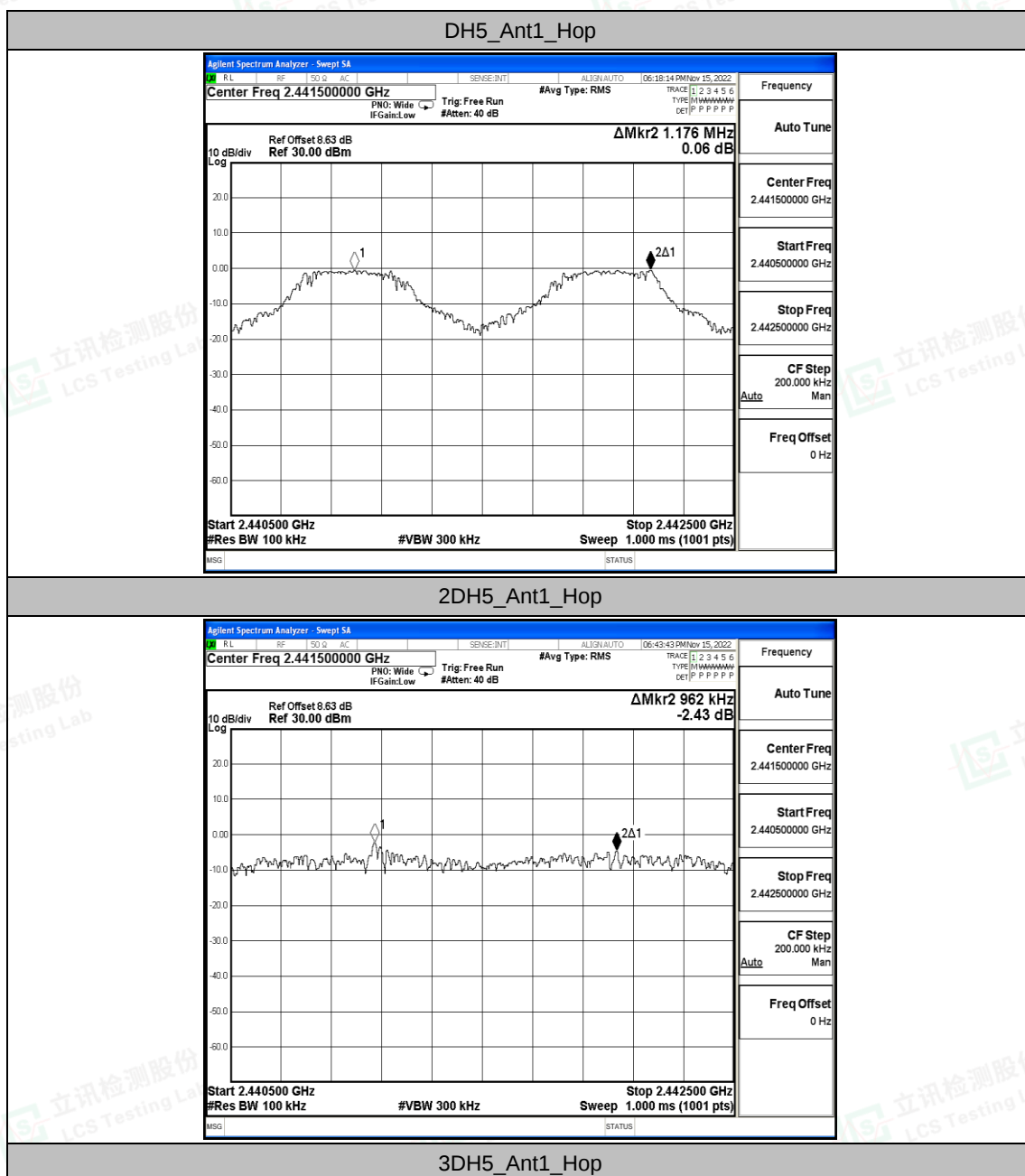
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.176	≥1.032	PASS
2DH5	Ant1	Hop	0.962	≥0.906	PASS
3DH5	Ant1	Hop	0.948	≥0.878	PASS





Test Graphs

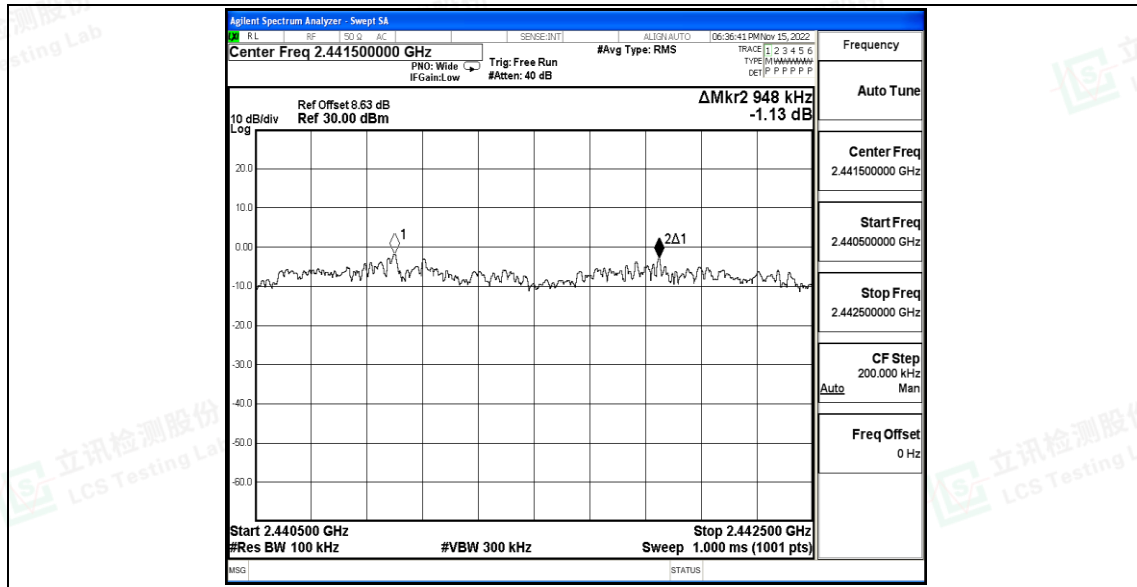


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A.4 Time of occupancy

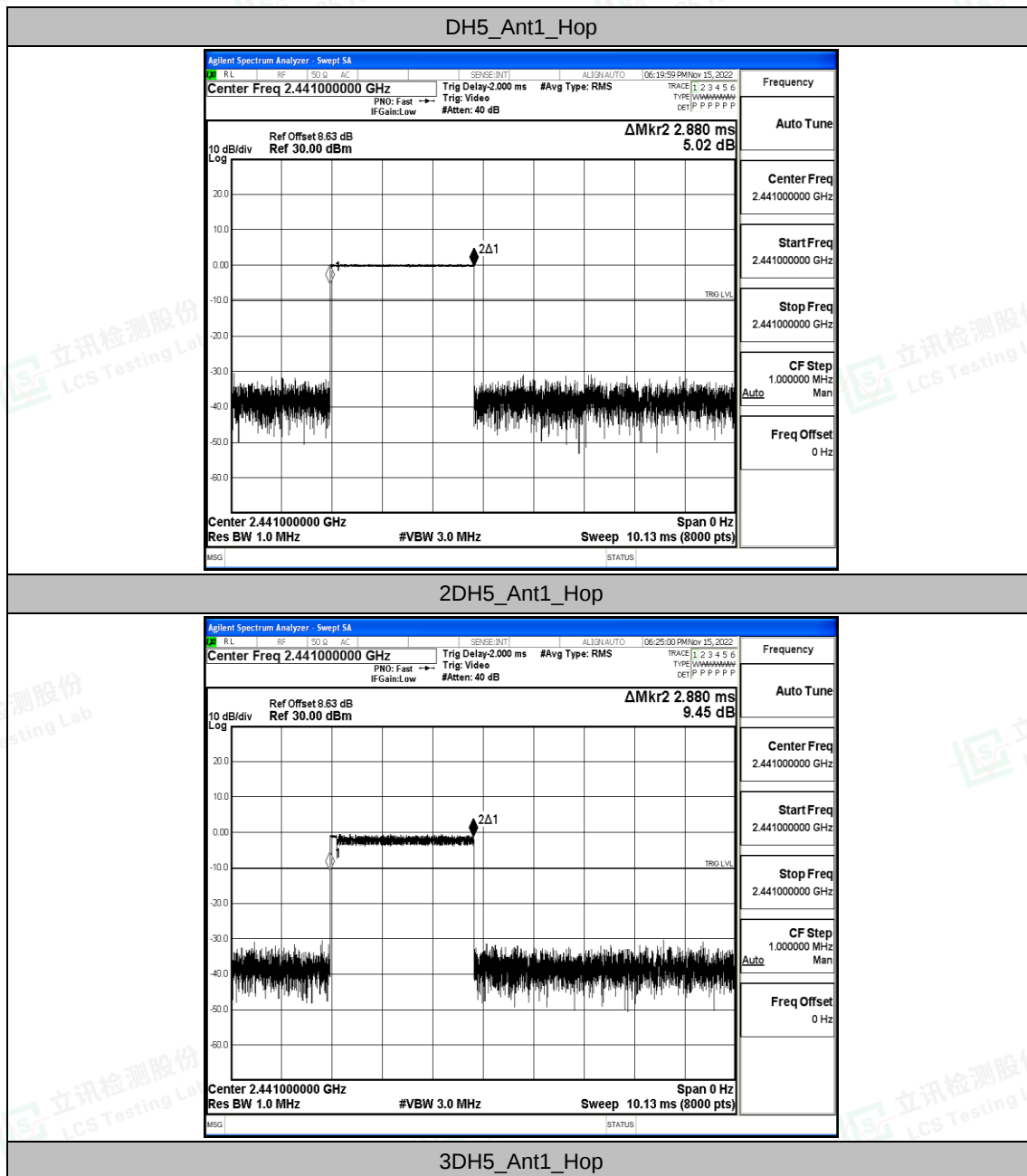
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs

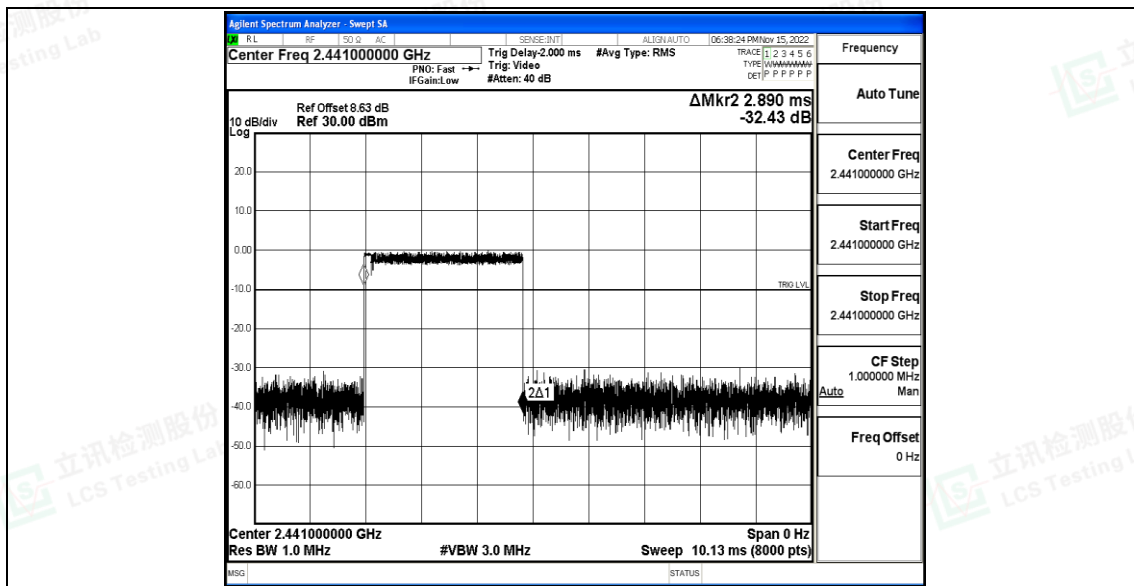


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A.5 Number of hopping channels

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





DH5_Ant1_Hop

Agilent Spectrum Analyzer - Sweep SA

RL RF SO Q AC SENSE:INT1 ALIGN: AUTO 06:19:37 PM Nov 15, 2022

Center Freq 2.441750000 GHz #Avg Type: RMS

PHO: Fast IF Gain: Low Trig: Free Run #Atten: 40 dB

Ref Offset 8.66 dB Ref 30.00 dBm

10 dB/div Log

Start 2.40000 GHz Stop 2.48350 GHz

#Res BW 100 kHz #VBW 300 kHz Sweep 8.000 ms (1001 pts)

MSG (STATUS)

Frequency	
Auto Tune	
Center Freq	2.441750000 GHz
Start Freq	2.400000000 GHz
Stop Freq	2.483500000 GHz
CF Step	8.350000 MHz
Auto	Man
Freq Offset	0 Hz

2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Sweep SA

RL RF SO Q AC SENSE:INT1 ALIGN: AUTO 06:24:39 PM Nov 15, 2022

Center Freq 2.441750000 GHz #Avg Type: RMS

PHO: Fast IF Gain: Low Trig: Free Run #Atten: 40 dB

Ref Offset 8.66 dB Ref 30.00 dBm

10 dB/div Log

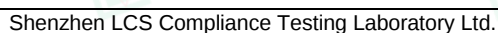
Start 2.40000 GHz Stop 2.48350 GHz

#Res BW 100 kHz #VBW 300 kHz Sweep 8.000 ms (1001 pts)

MSG (STATUS)

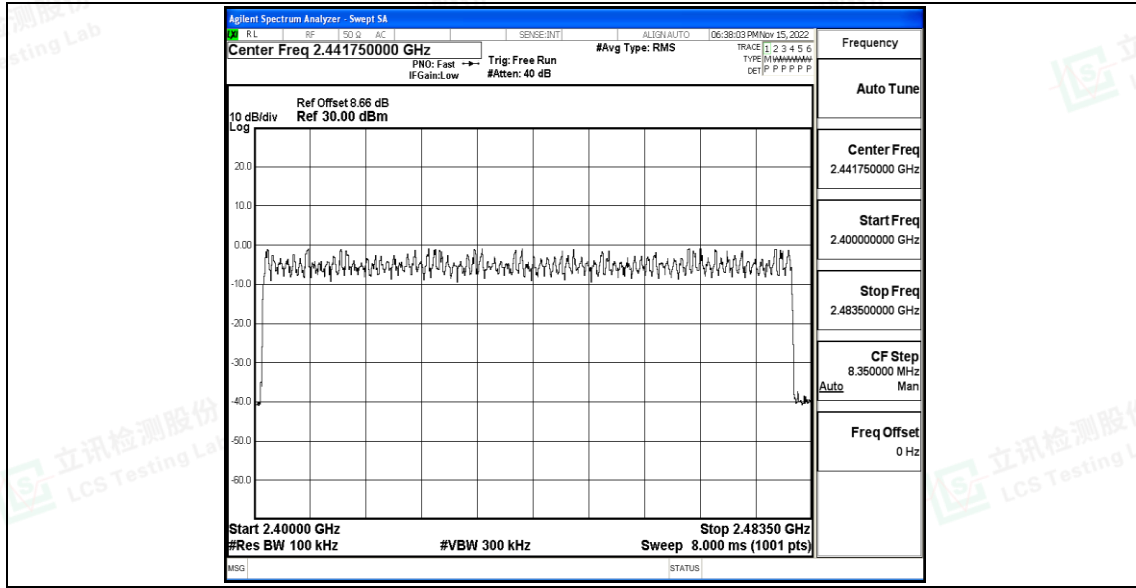
Frequency	
Auto Tune	
Center Freq	2.441750000 GHz
Start Freq	2.400000000 GHz
Stop Freq	2.483500000 GHz
CF Step	8.350000 MHz
Auto	Man
Freq Offset	0 Hz

3DH5_Ant1_Hop



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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.76	-60.45	≤ -20.76	PASS
		High	2480	-0.14	-59.4	≤ -20.14	PASS
		Low	Hop_2402	-0.88	-58.86	≤ -20.88	PASS
		High	Hop_2480	-0.27	-57.81	≤ -20.27	PASS
2DH5	Ant1	Low	2402	-4.65	-59.09	≤ -24.65	PASS
		High	2480	-3.50	-58.52	≤ -23.5	PASS
		Low	Hop_2402	-4.62	-59.16	≤ -24.62	PASS
		High	Hop_2480	-1.41	-57.45	≤ -21.41	PASS
3DH5	Ant1	Low	2402	-5.01	-56.94	≤ -25.01	PASS
		High	2480	-5.77	-58.83	≤ -25.77	PASS
		Low	Hop_2402	-4.71	-58.94	≤ -24.71	PASS
		High	Hop_2480	-2.53	-57.32	≤ -22.53	PASS



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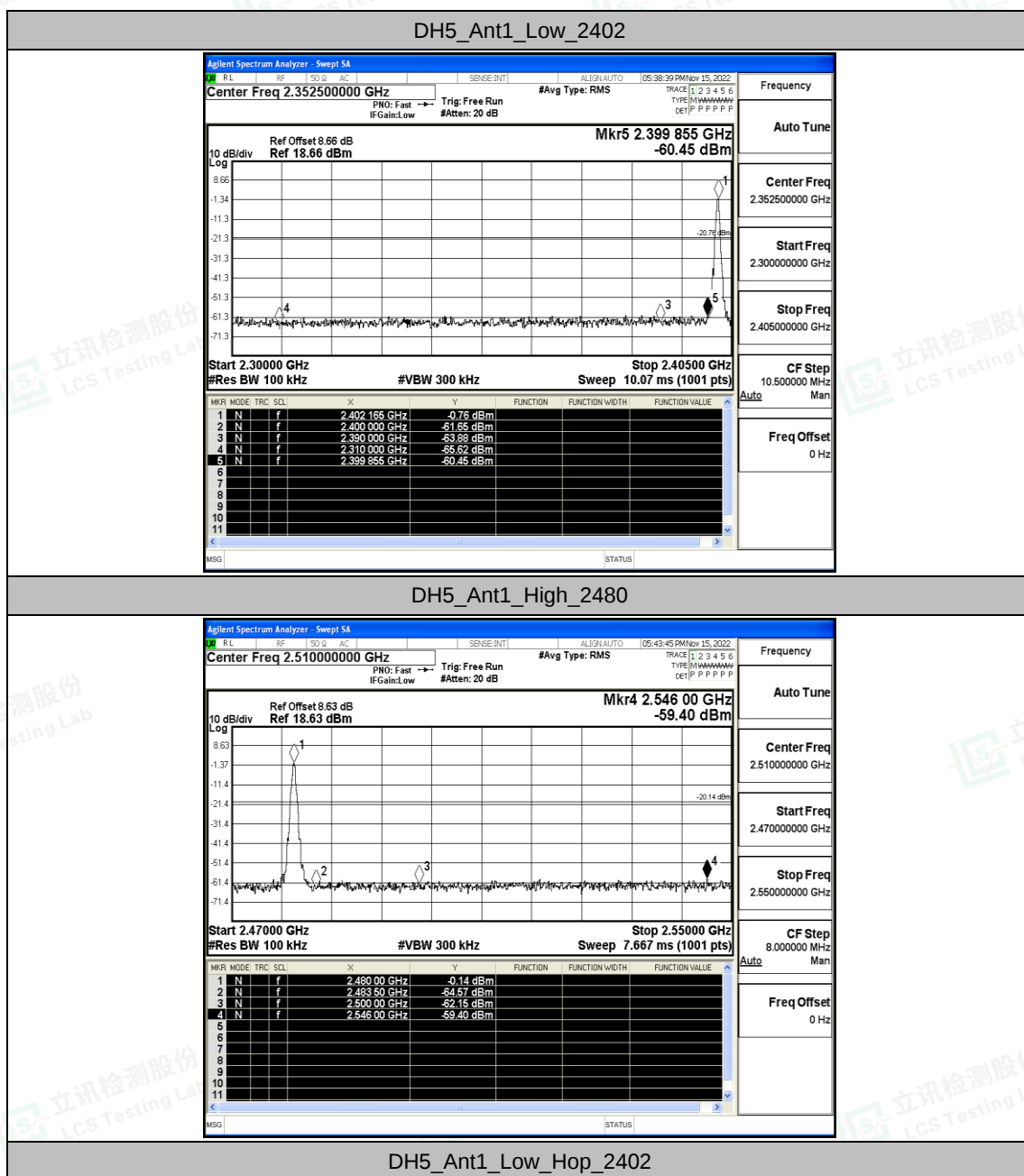
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Test Graphs

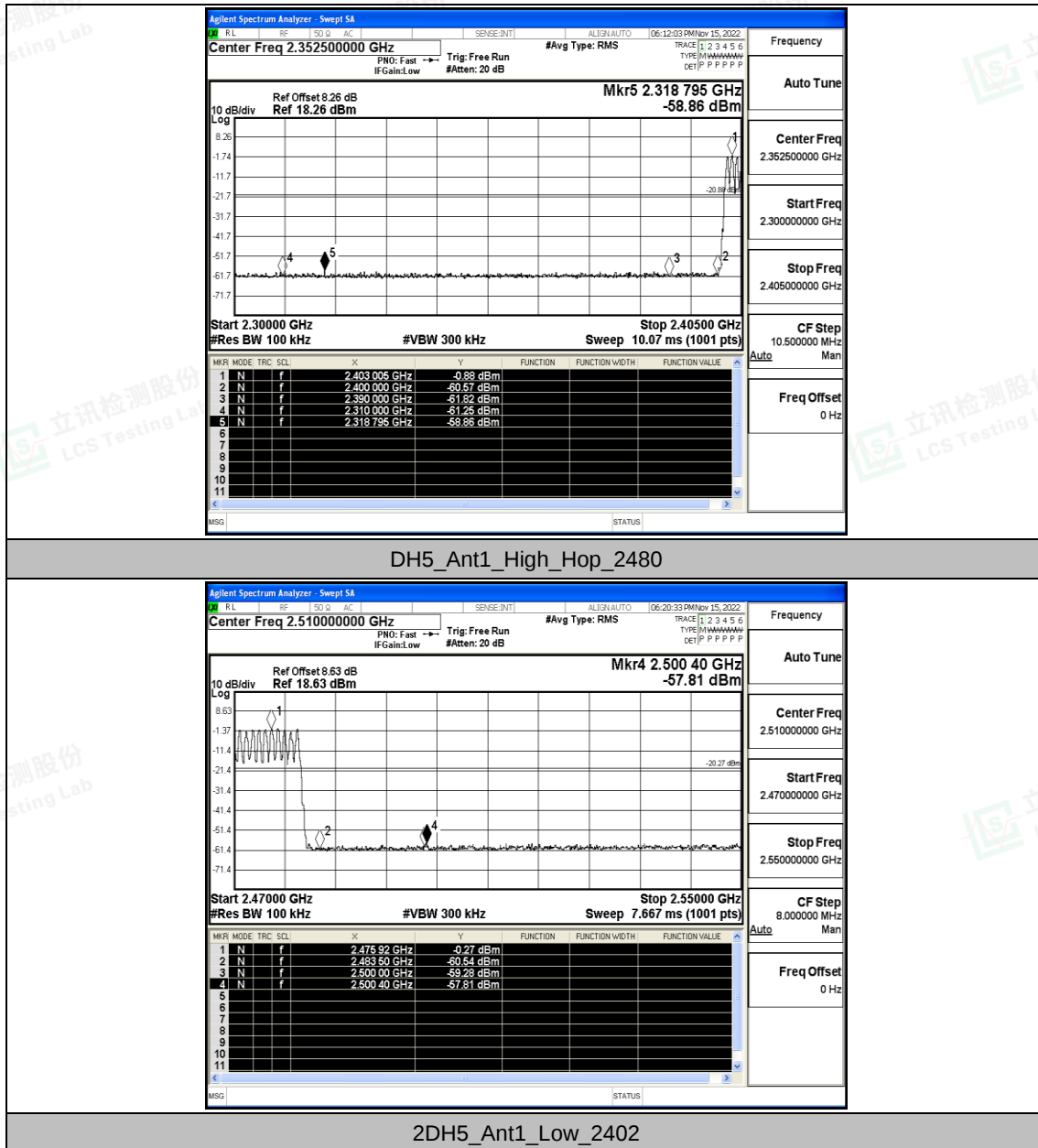


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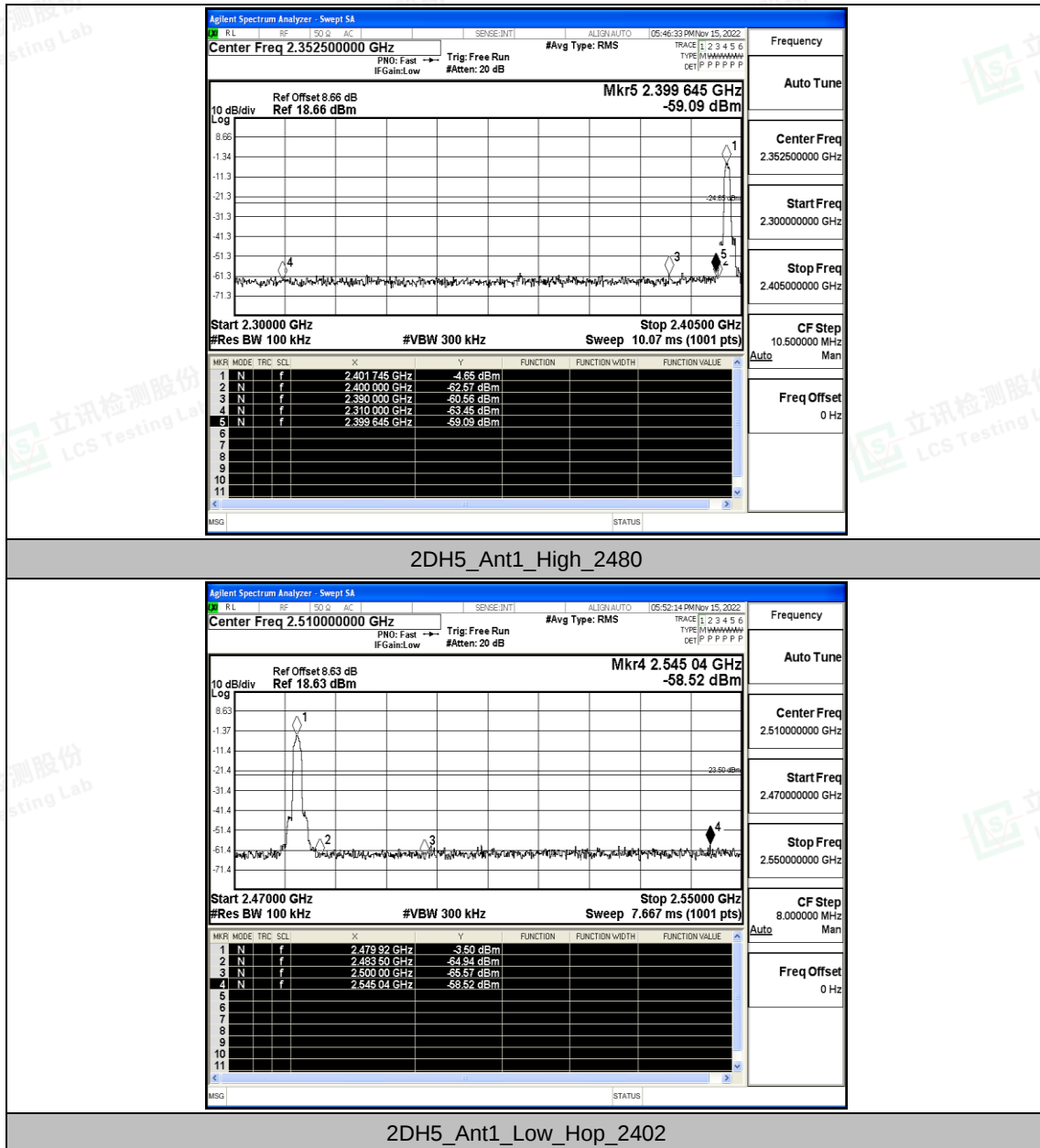


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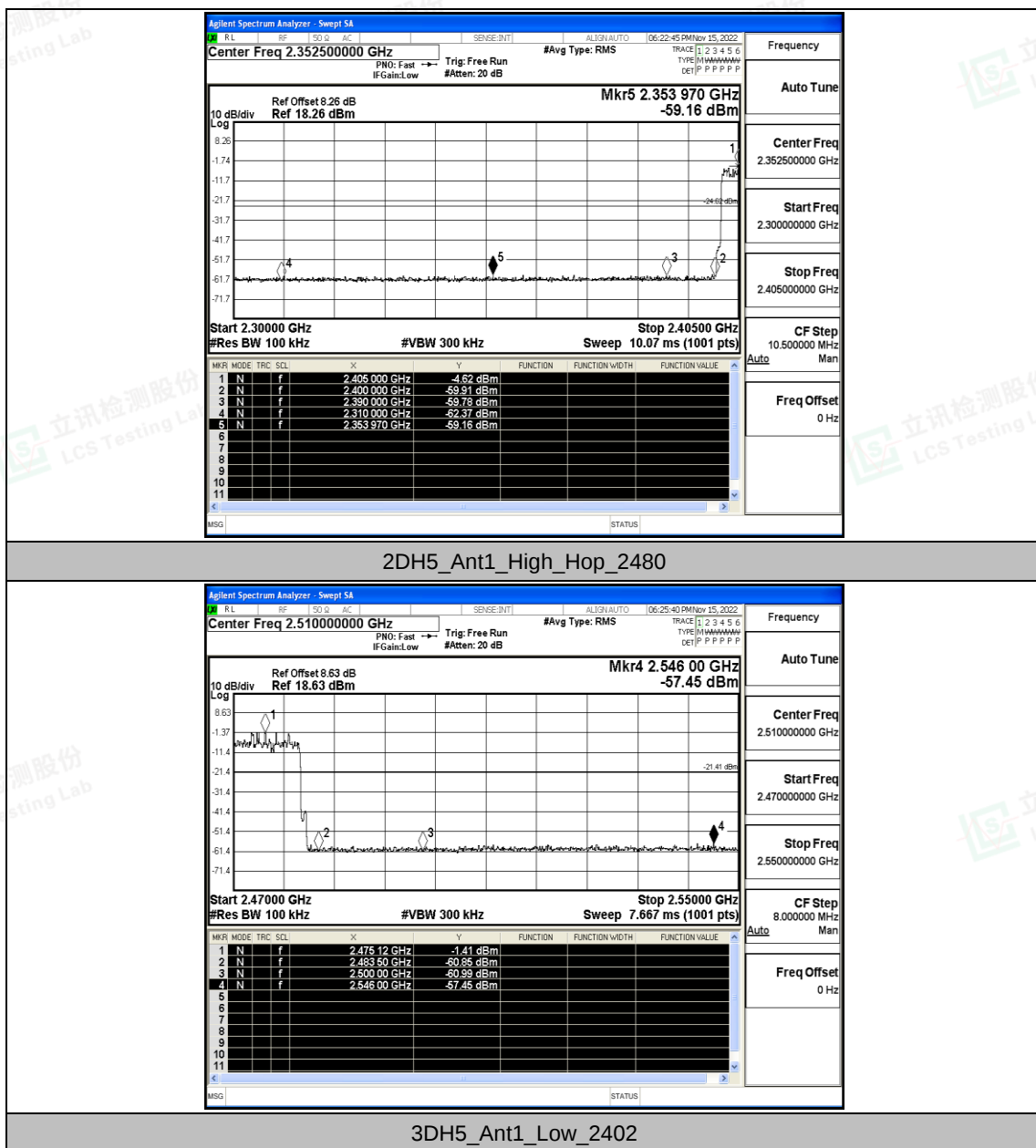


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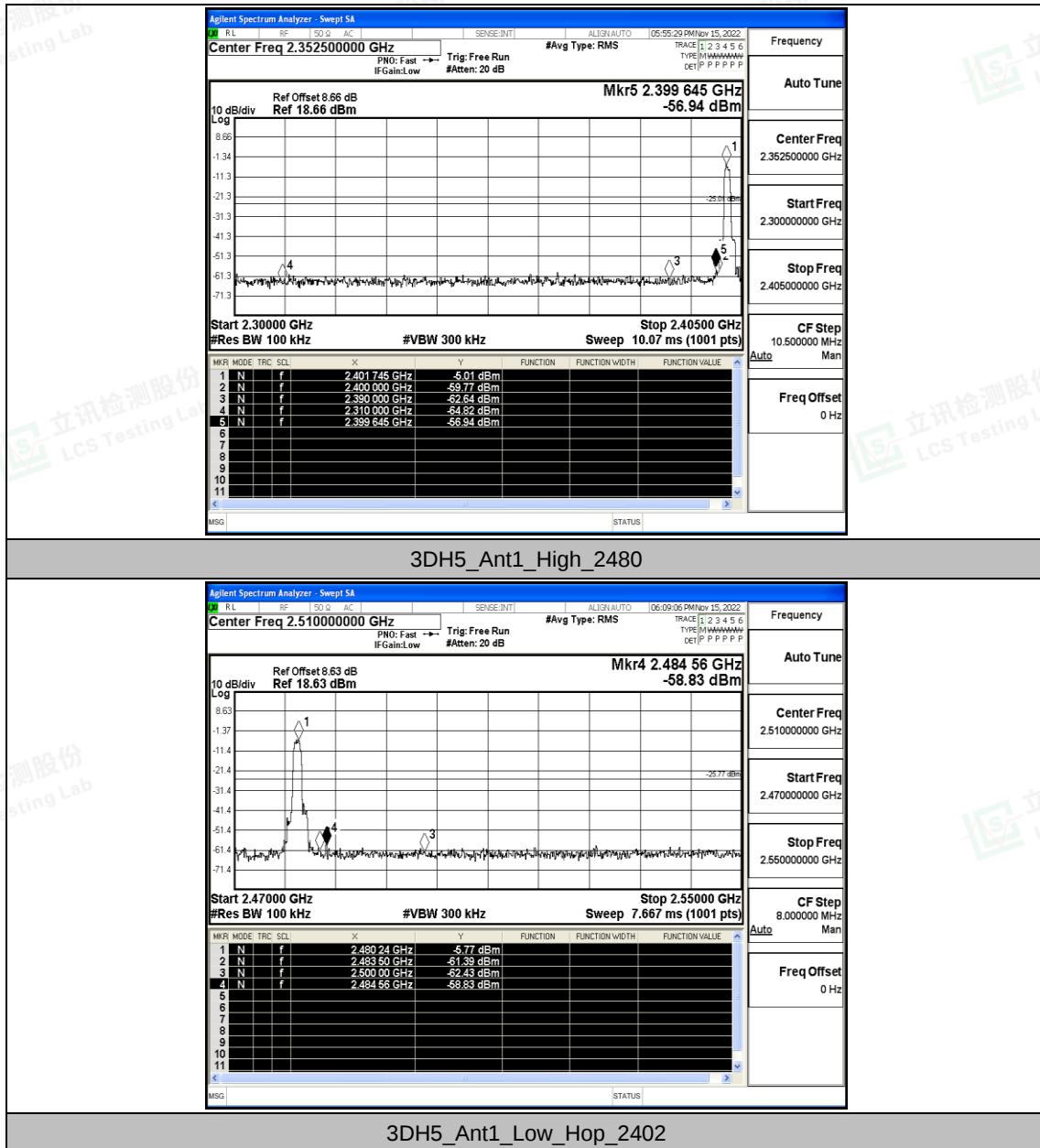


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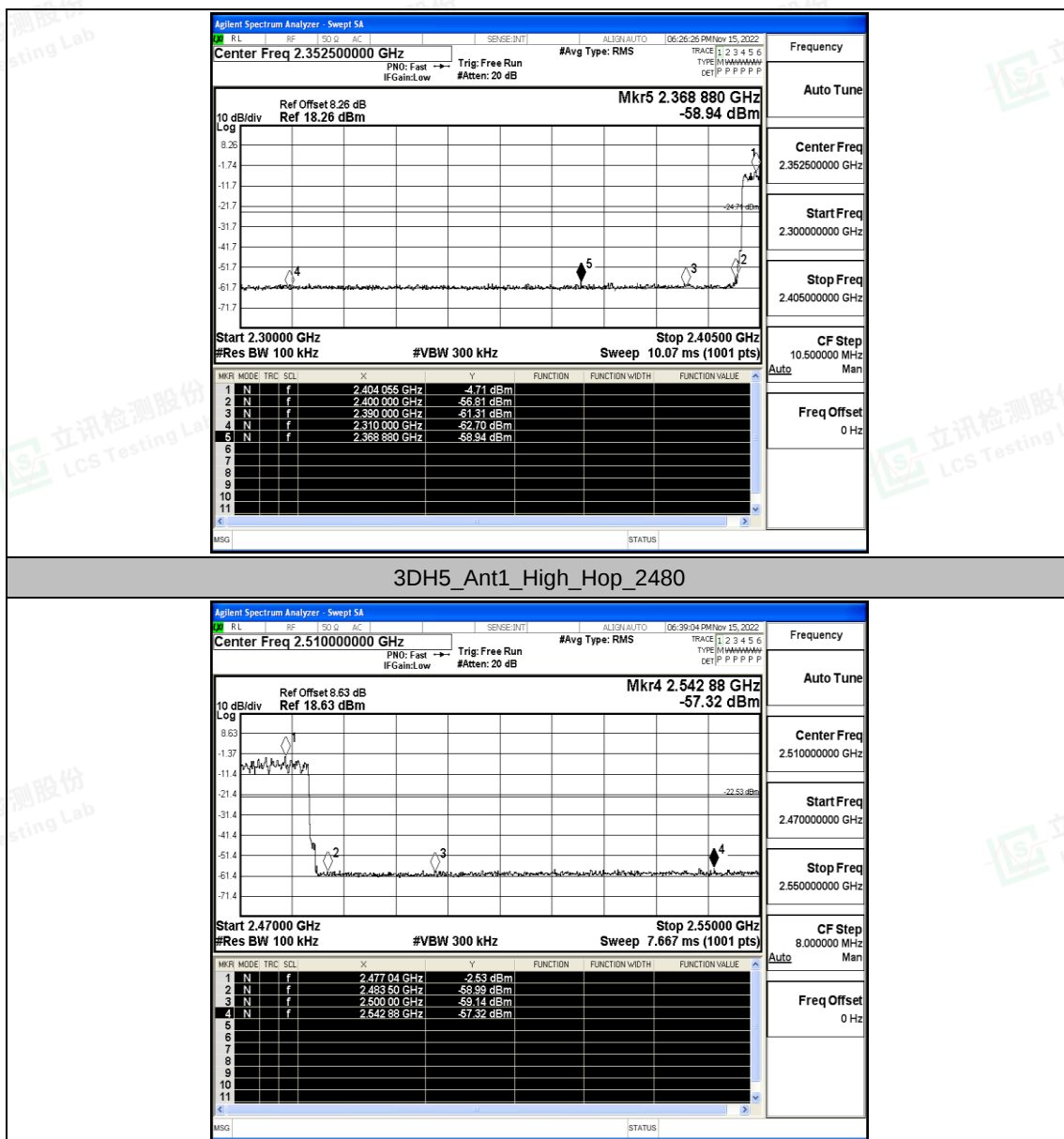


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-60.87	≤-20.67	PASS
			1000~26500	-0.67	-46.02	≤-20.67	PASS
		2441	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-60.8	≤-20.71	PASS
			1000~26500	-0.71	-46.11	≤-20.71	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-60.29	≤-20.95	PASS
			1000~26500	-0.95	-45.97	≤-20.95	PASS
2DH5	Ant1	2402	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-60.29	≤-24.71	PASS
			1000~26500	-4.71	-45.7	≤-24.71	PASS
		2441	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-60.6	≤-24.83	PASS
			1000~26500	-4.83	-46.58	≤-24.83	PASS
		2480	Reference	-6.05	-6.05	---	PASS
			30~1000	-6.05	-60.97	≤-26.05	PASS
			1000~26500	-6.05	-46.45	≤-26.05	PASS
3DH5	Ant1	2402	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-60.66	≤-24.63	PASS
			1000~26500	-4.63	-45.49	≤-24.63	PASS
		2441	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-60.32	≤-24.71	PASS
			1000~26500	-4.71	-45.46	≤-24.71	PASS
		2480	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-60.52	≤-25.01	PASS
			1000~26500	-5.01	-45.43	≤-25.01	PASS



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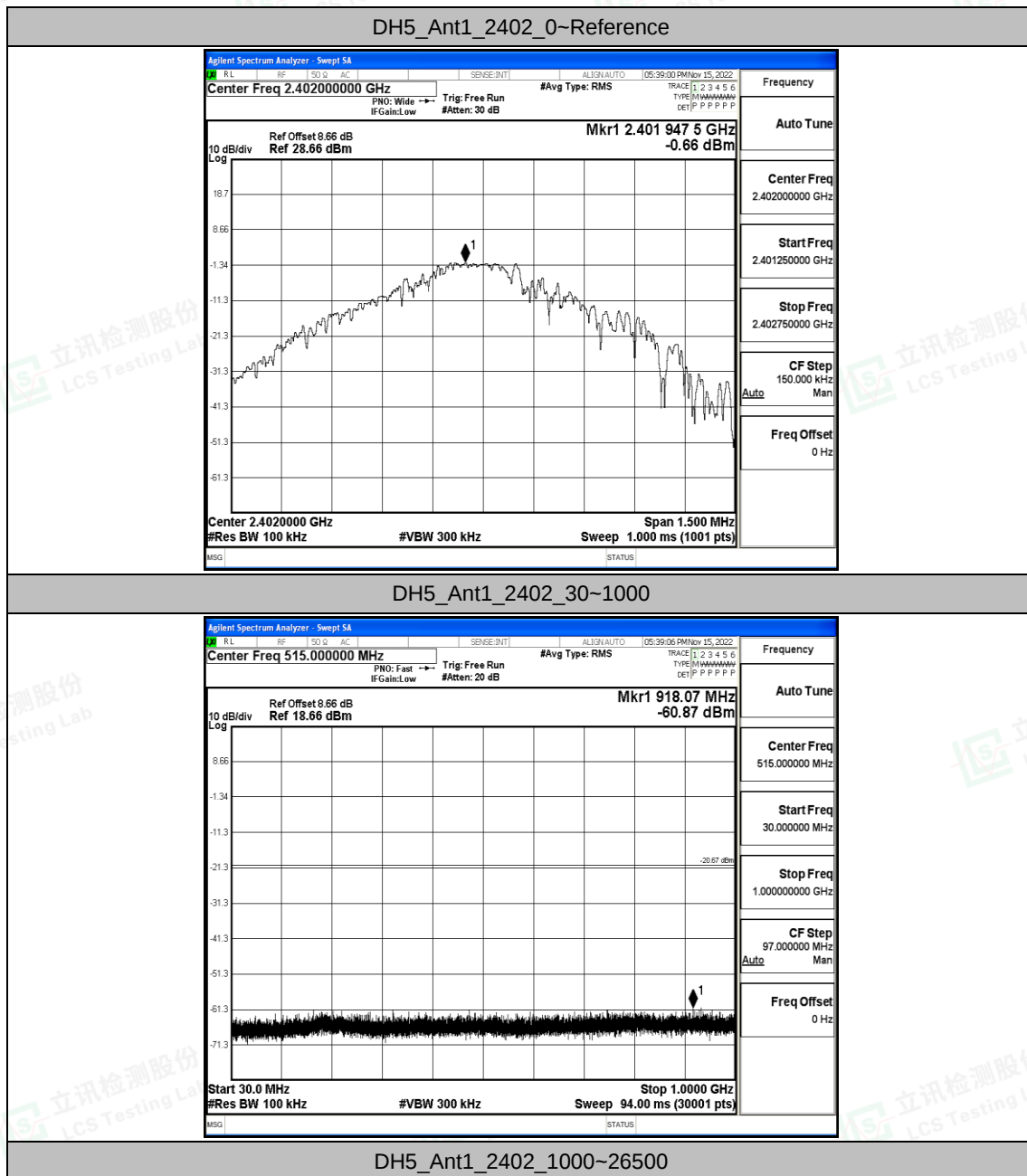
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Test Graphs

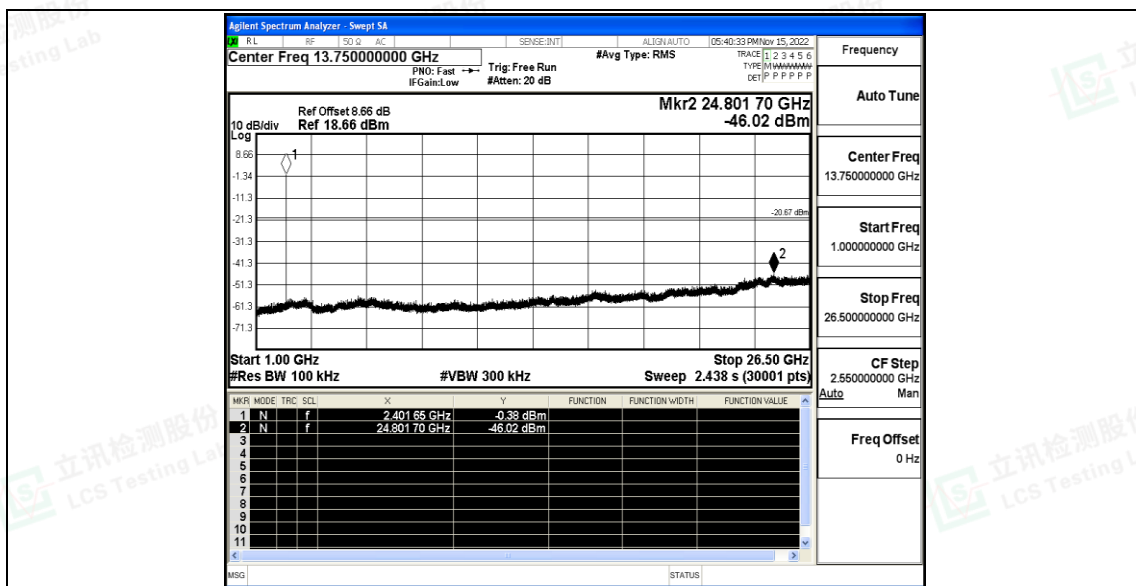


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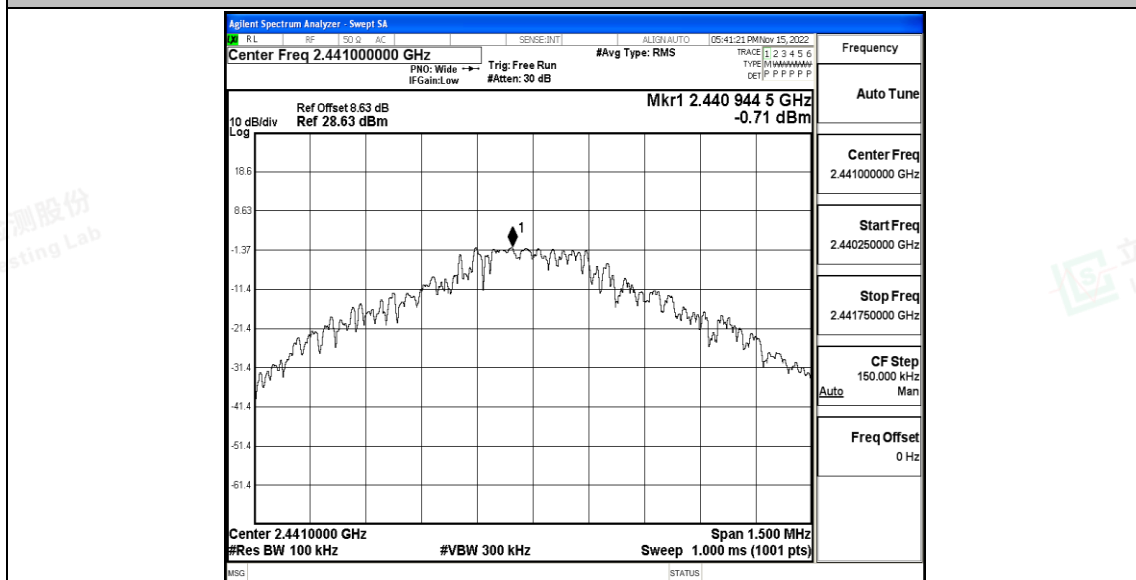
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000

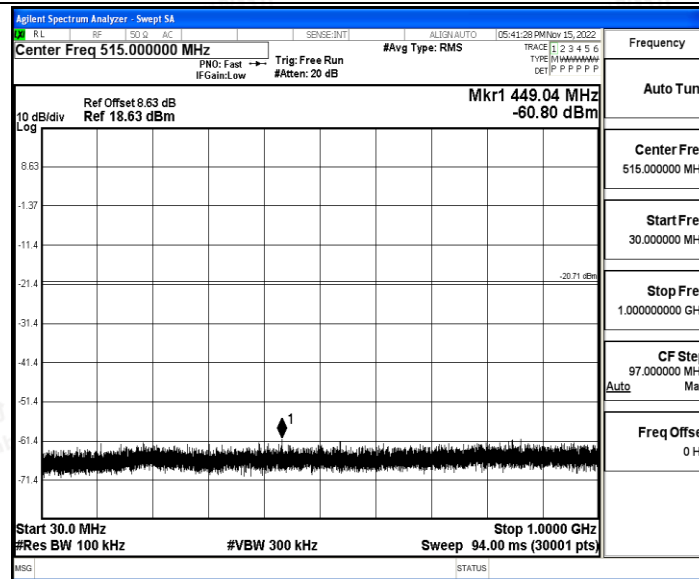


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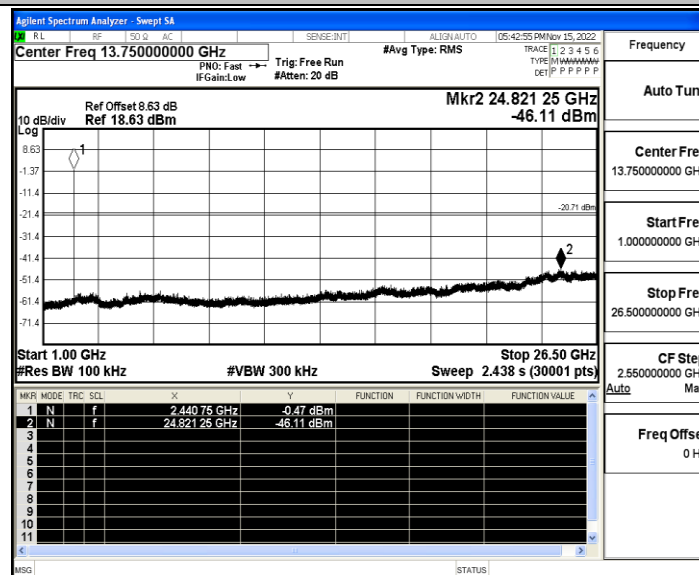
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

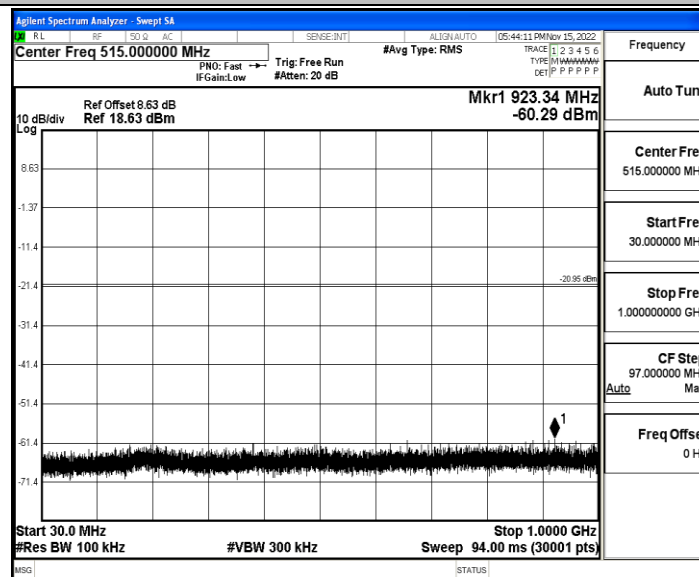
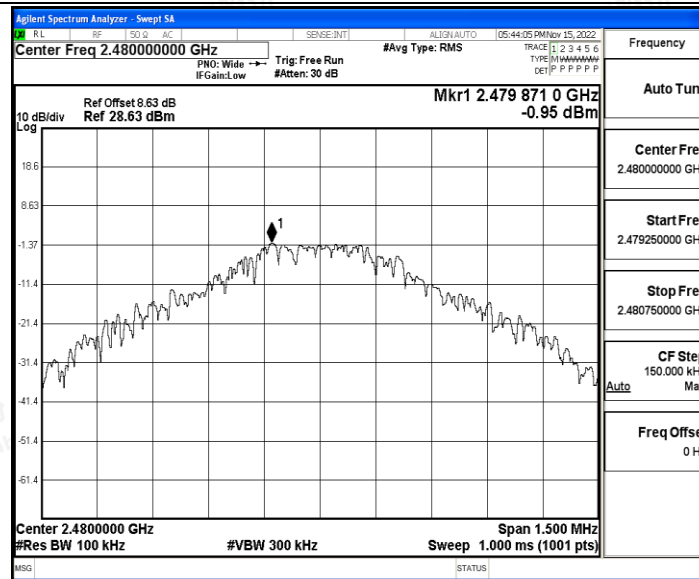


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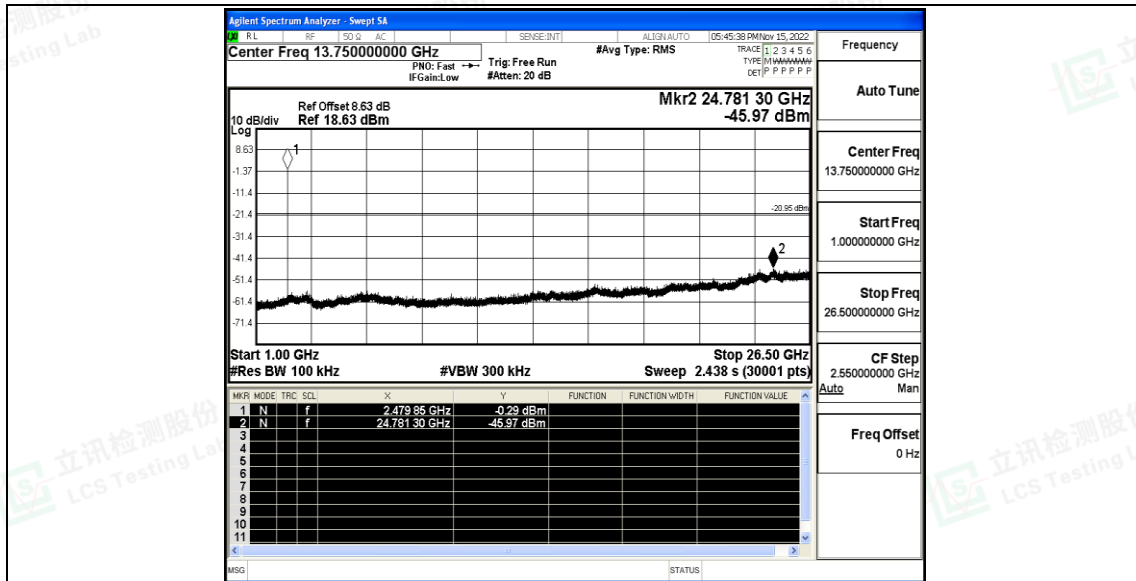


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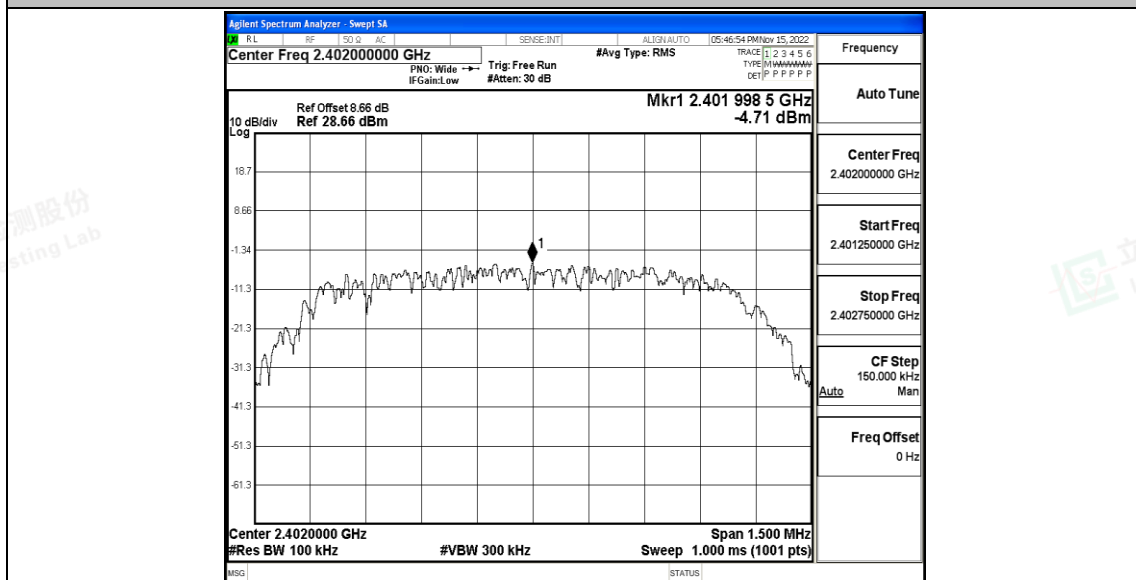
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

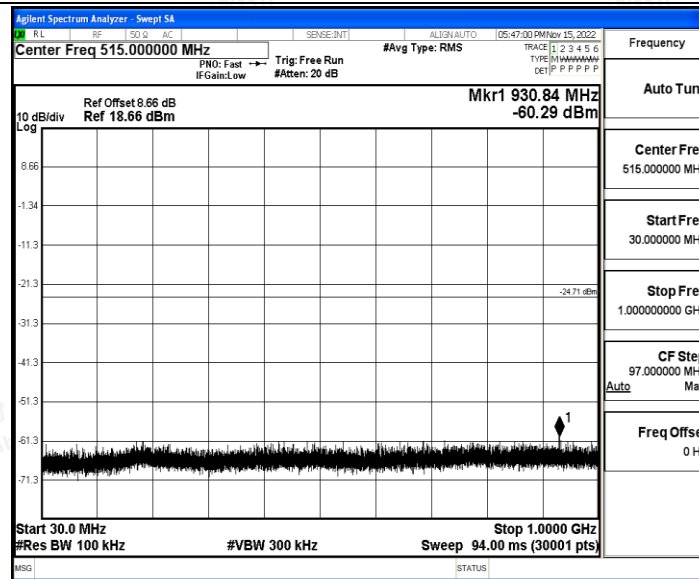


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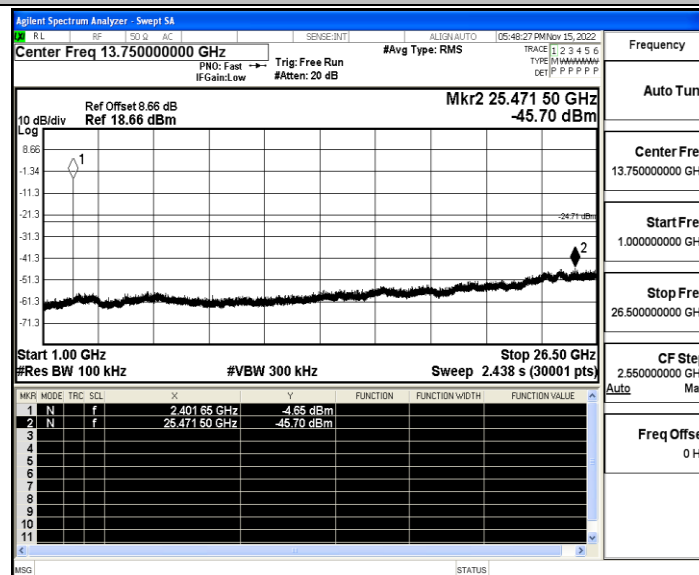
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

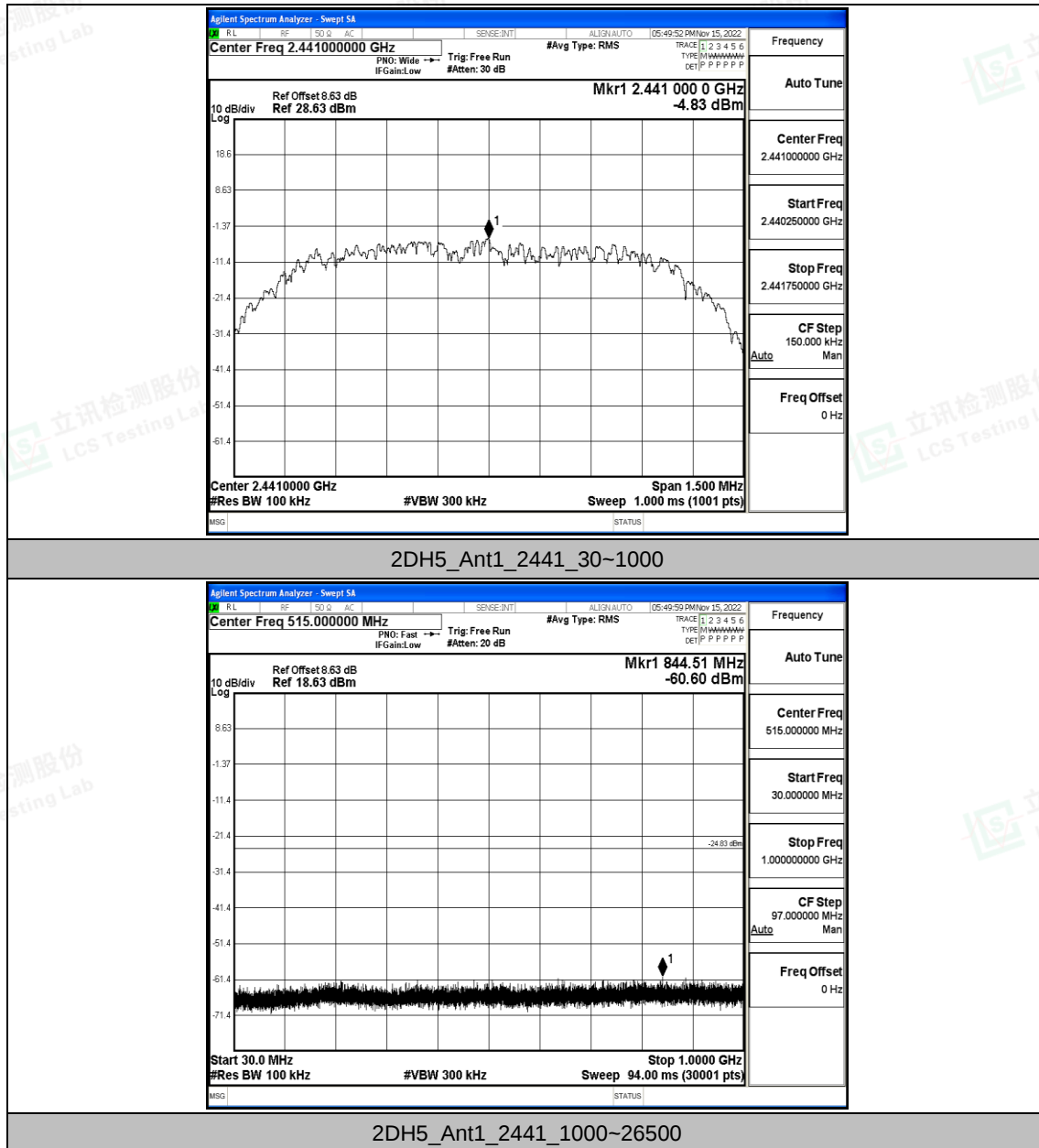


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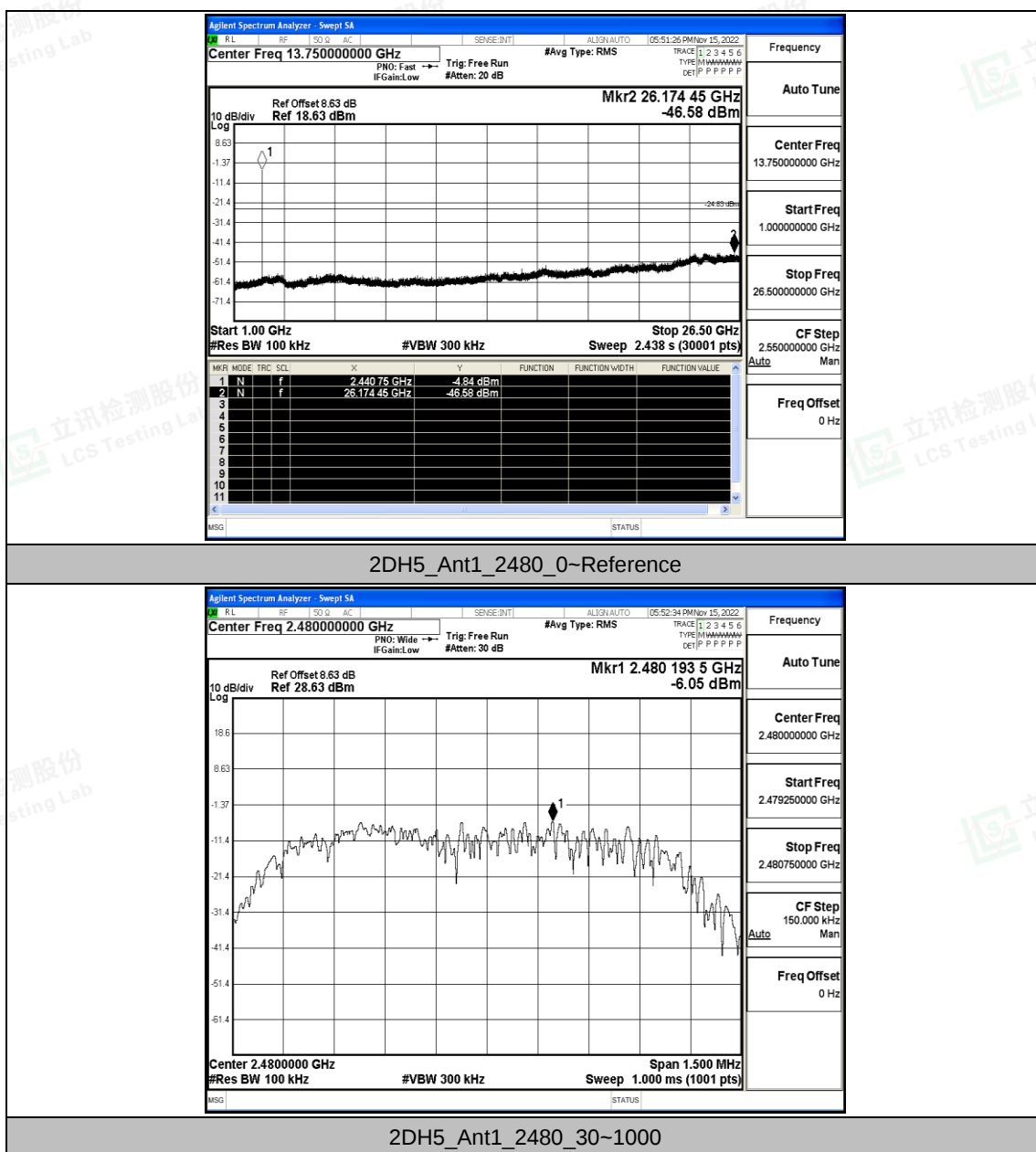


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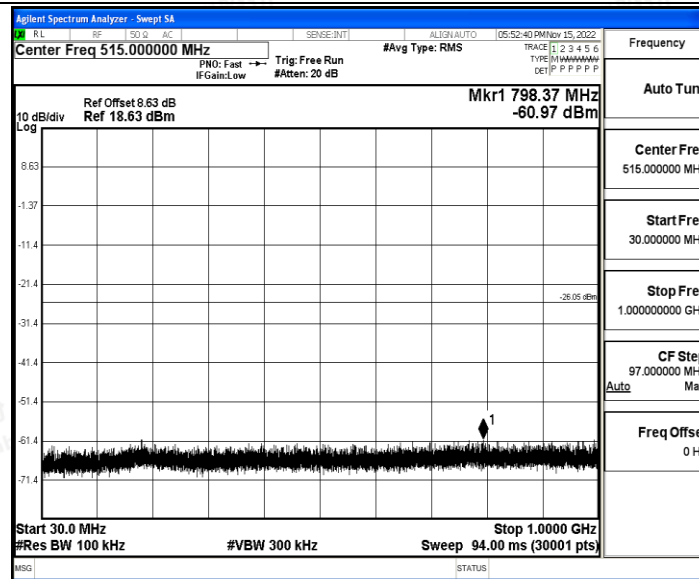


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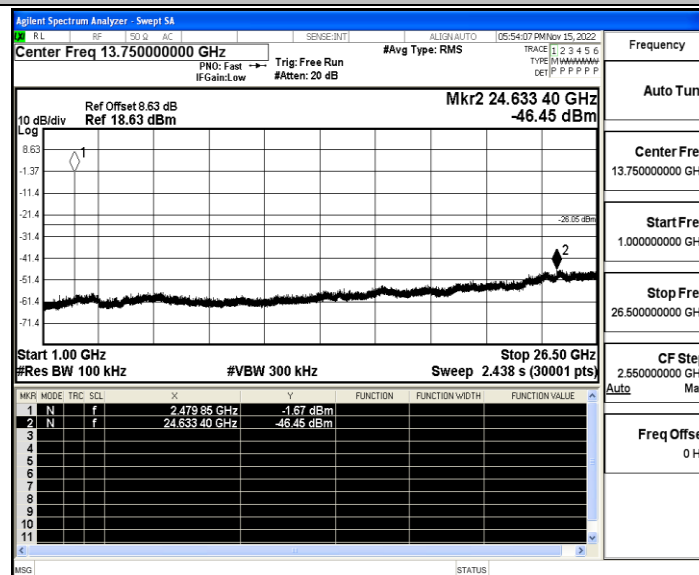
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

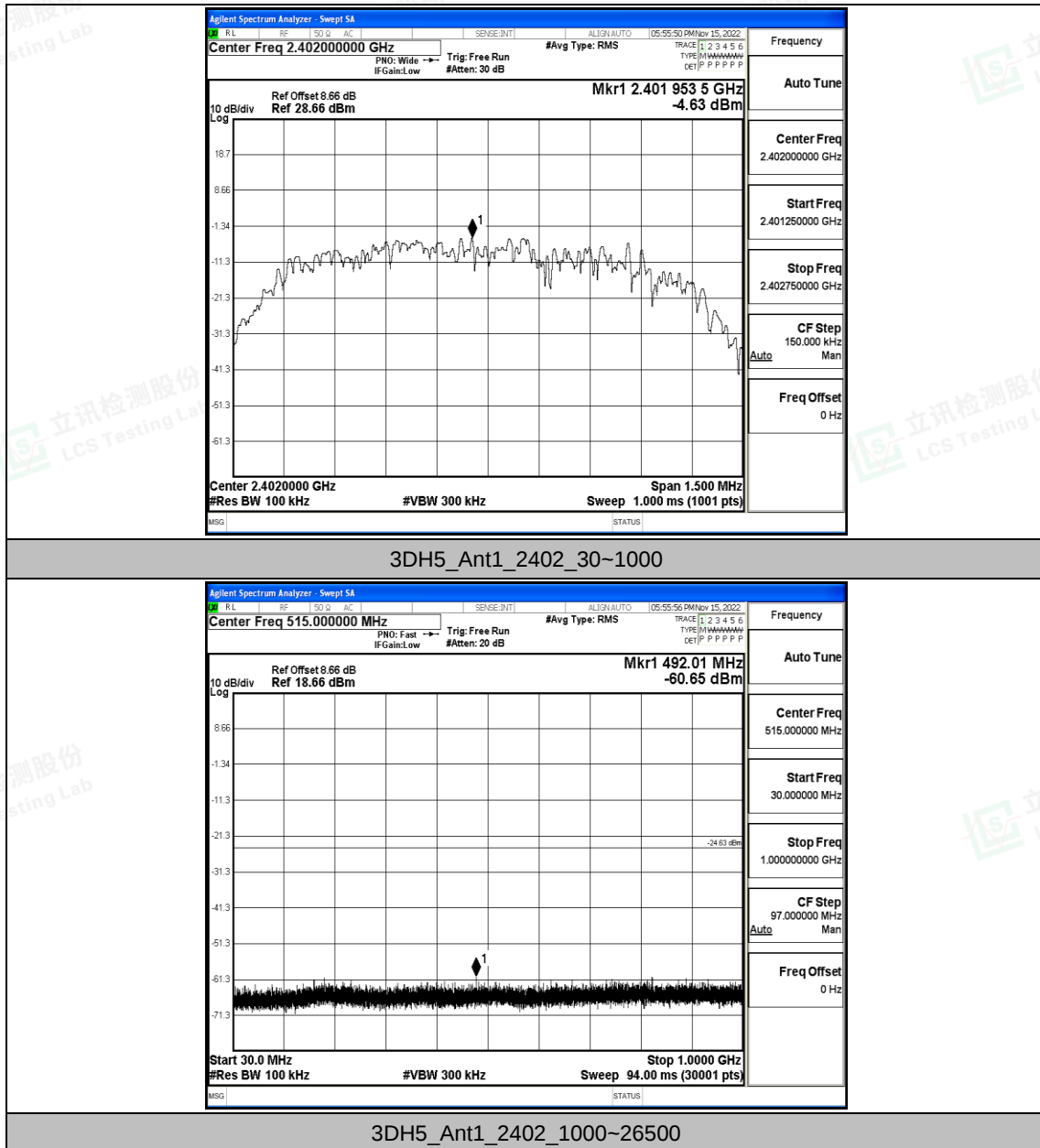


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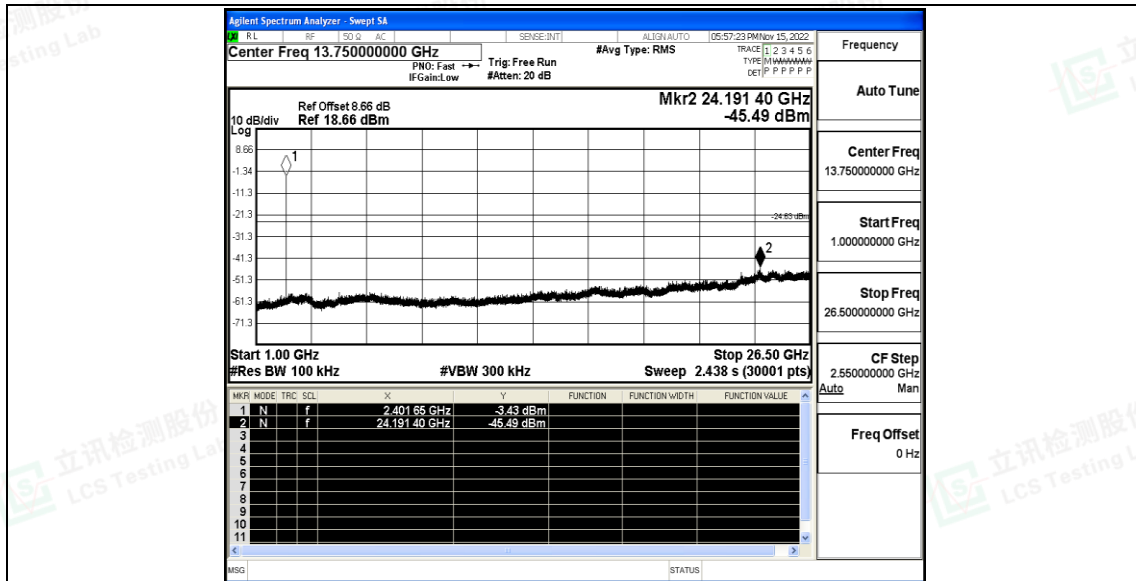


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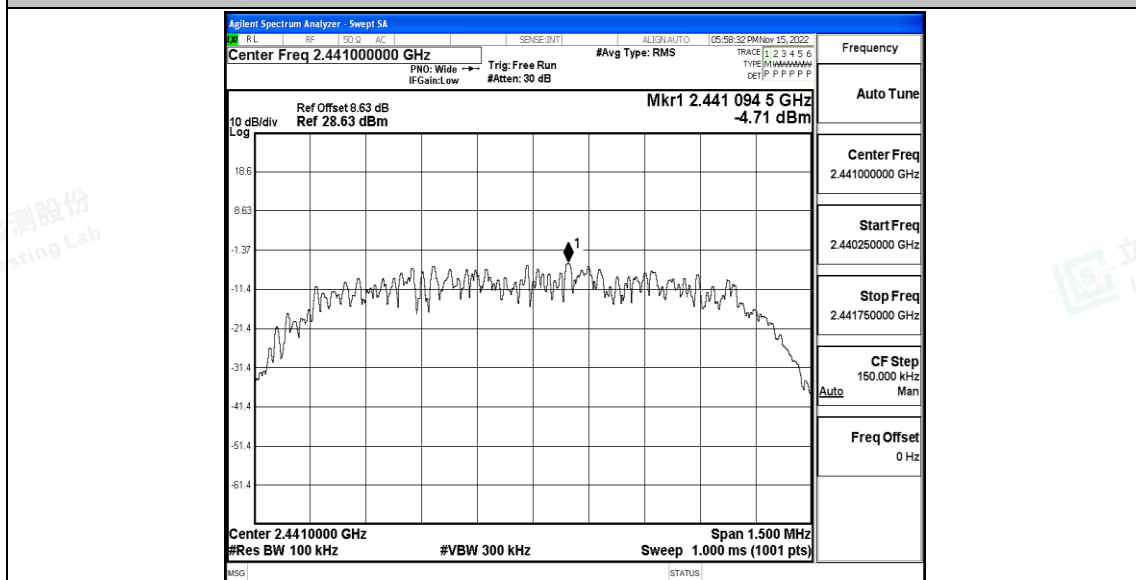
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

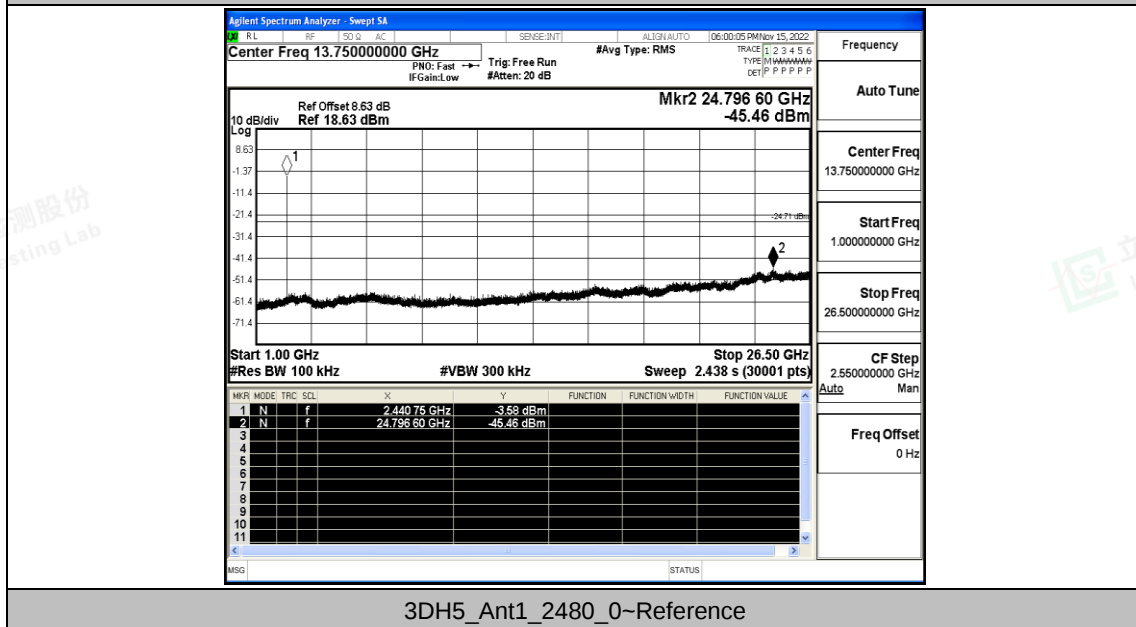
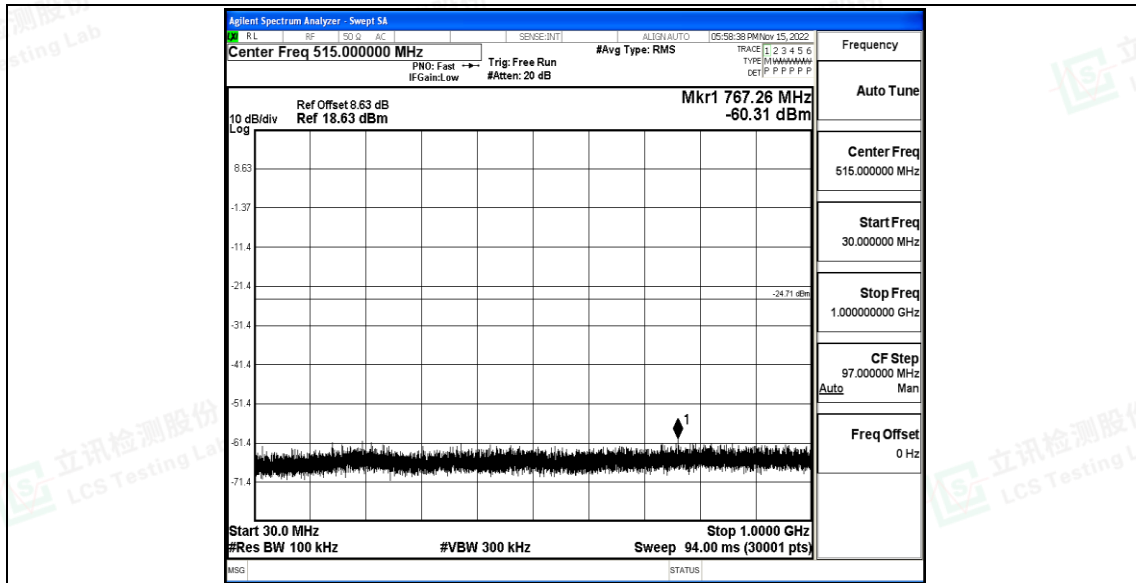


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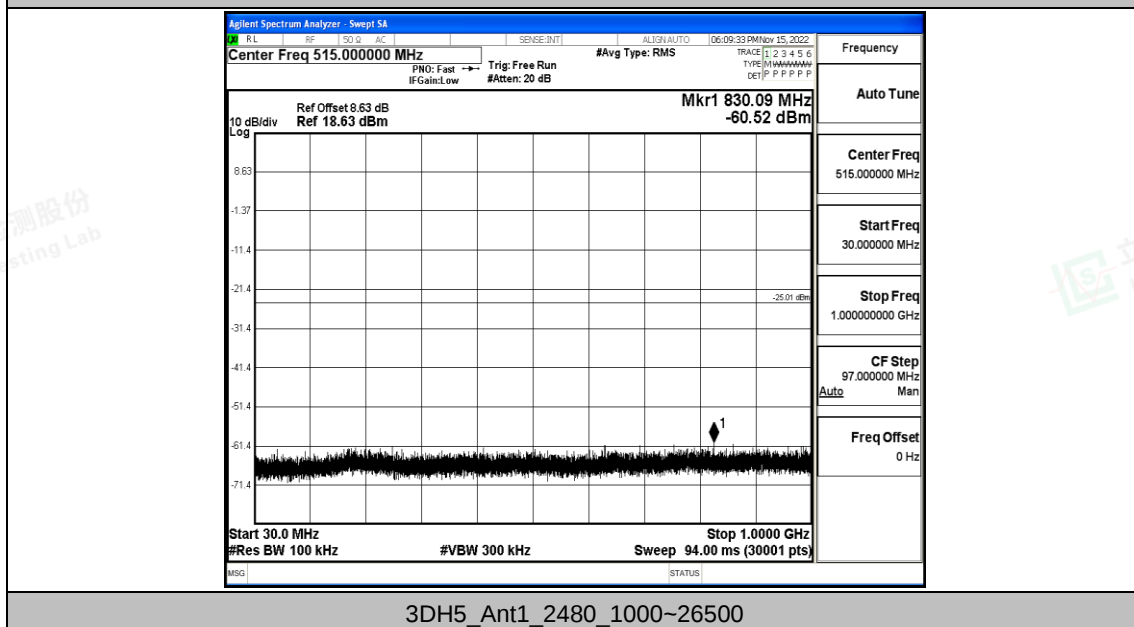
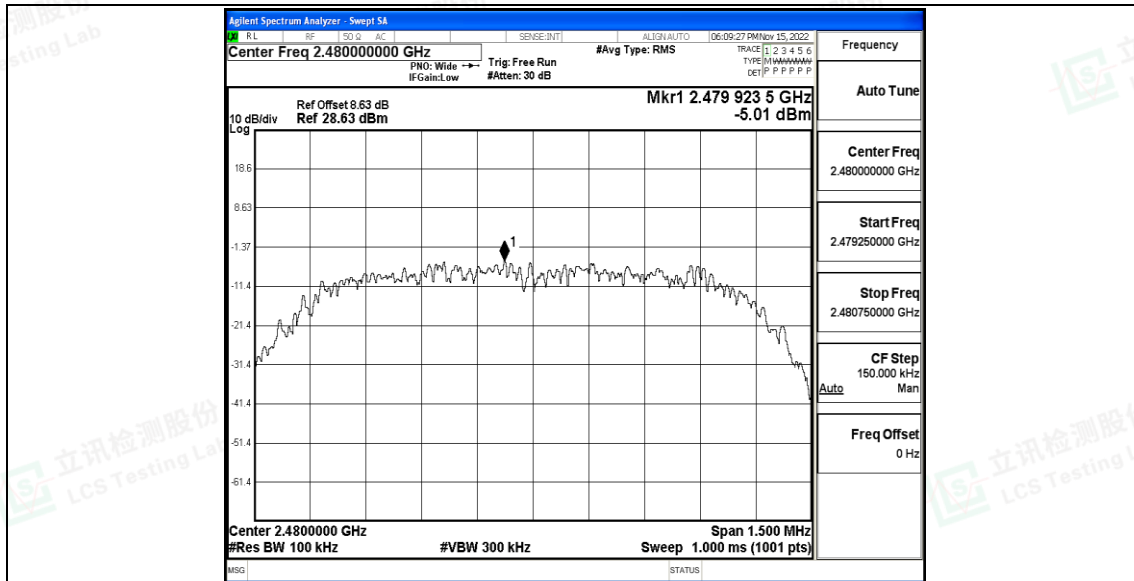


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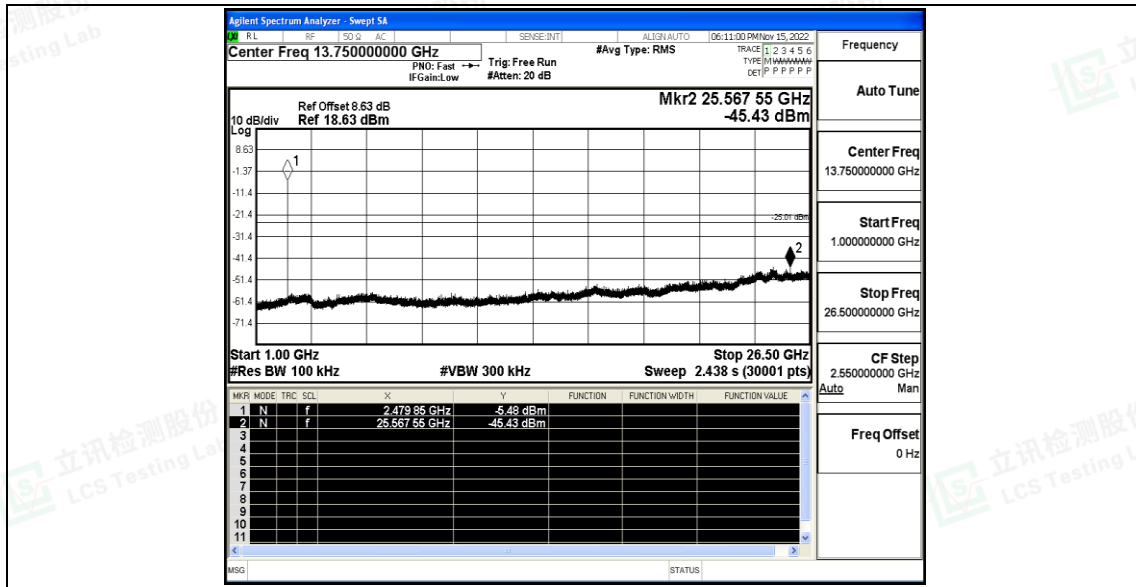


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A.8 Emissions in Restricted Bands

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	-58.18	≤-41.20	37.02	≤54	PASS
				AV	2389.670	-57.65	≤-41.20	37.55	≤54	PASS
				AV	2390.000	-57.73	≤-41.20	37.47	≤54	PASS
				Peak	2310.000	-54.17	≤-21.20	41.03	≤74	PASS
				Peak	2326.460	-48.68	≤-21.20	46.52	≤74	PASS
				Peak	2390.000	-49.42	≤-21.20	45.78	≤74	PASS
		High	2480	AV	2483.500	-55.48	≤-41.20	39.72	≤54	PASS
				AV	2483.520	-55.48	≤-41.20	39.72	≤54	PASS
				AV	2500.000	-57.35	≤-41.20	37.85	≤54	PASS
				Peak	2483.500	-52.24	≤-21.20	42.96	≤74	PASS
				Peak	2488.960	-47.49	≤-21.20	47.71	≤74	PASS
				Peak	2500.000	-51.04	≤-21.20	44.16	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-50.23	≤-21.20	44.97	≤74	PASS
				Peak	2387.675	-47.61	≤-21.20	47.59	≤74	PASS
				Peak	2390.000	-50.92	≤-21.20	44.28	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-49.87	≤-21.20	45.33	≤74	PASS
				Peak	2494.960	-46.88	≤-21.20	48.32	≤74	PASS
				Peak	2500.000	-47.43	≤-21.20	47.77	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.16	≤-41.20	37.04	≤54	PASS
				AV	2384.420	-57.6	≤-41.20	37.60	≤54	PASS
				AV	2390.000	-57.8	≤-41.20	37.40	≤54	PASS
				Peak	2310.000	-52.95	≤-21.20	42.25	≤74	PASS
				Peak	2387.255	-49.02	≤-21.20	46.18	≤74	PASS
				Peak	2390.000	-51.66	≤-21.20	43.54	≤74	PASS
		High	2480	AV	2483.500	-55.26	≤-41.20	39.94	≤54	PASS
				AV	2483.520	-55.26	≤-41.20	39.94	≤54	PASS
				AV	2500.000	-57.34	≤-41.20	37.86	≤54	PASS
				Peak	2483.500	-50.3	≤-21.20	44.90	≤74	PASS
				Peak	2494.800	-48.63	≤-21.20	46.57	≤74	PASS
				Peak	2500.000	-53.36	≤-21.20	41.84	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.88	≤-21.20	45.32	≤74	PASS
				Peak	2376.020	-46.79	≤-21.20	48.41	≤74	PASS
				Peak	2390.000	-49.4	≤-21.20	45.80	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-48.97	≤-21.20	46.23	≤74	PASS
				Peak	2495.920	-46.19	≤-21.20	49.01	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-48.18	≤ -21.20	47.02	≤ 74	PASS
				AV	2310.000	-58.2	≤ -41.20	37.00	≤ 54	PASS
				AV	2388.935	-57.68	≤ -41.20	37.52	≤ 54	PASS
				AV	2390.000	-57.84	≤ -41.20	37.36	≤ 54	PASS
				Peak	2310.000	-51.42	≤ -21.20	43.78	≤ 74	PASS
				Peak	2384.630	-48.75	≤ -21.20	46.45	≤ 74	PASS
				Peak	2390.000	-53.19	≤ -21.20	42.01	≤ 74	PASS
		High	2480	AV	2483.500	-55.33	≤ -41.20	39.87	≤ 54	PASS
				AV	2483.520	-55.33	≤ -41.20	39.87	≤ 54	PASS
				AV	2500.000	-57.28	≤ -41.20	37.92	≤ 54	PASS
				Peak	2483.500	-50.63	≤ -21.20	44.57	≤ 74	PASS
				Peak	2499.120	-48.7	≤ -21.20	46.50	≤ 74	PASS
				Peak	2500.000	-51.45	≤ -21.20	43.75	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.43	≤ -21.20	45.77	≤ 74	PASS
				Peak	2387.045	-47.34	≤ -21.20	47.86	≤ 74	PASS
				Peak	2390.000	-50.37	≤ -21.20	44.83	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-49.09	≤ -21.20	46.11	≤ 74	PASS
				Peak	2489.200	-47.49	≤ -21.20	47.71	≤ 74	PASS
				Peak	2500.000	-48.79	≤ -21.20	46.41	≤ 74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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Test Graphs

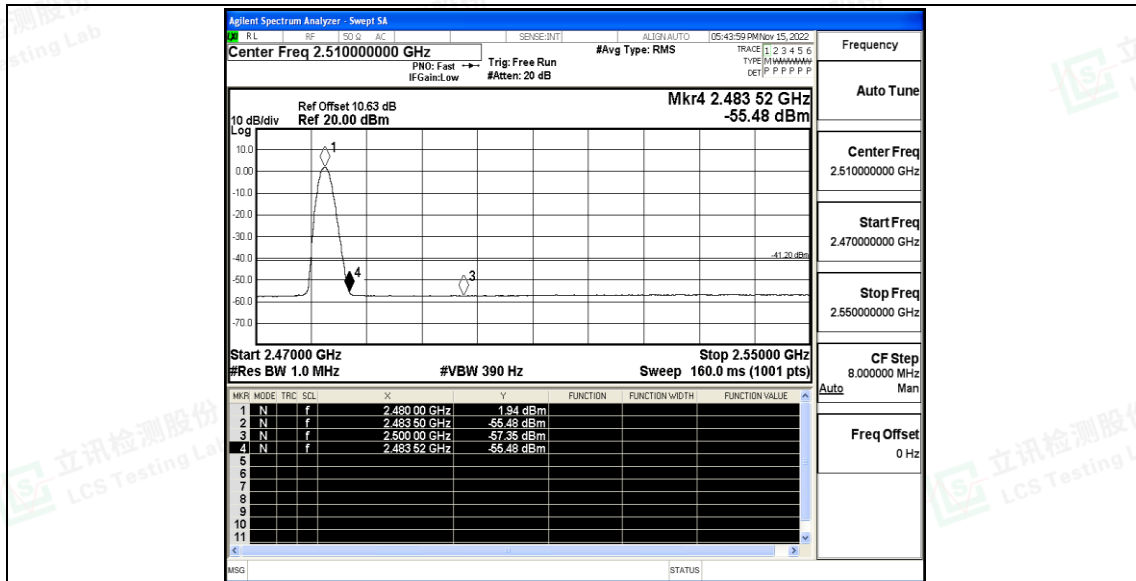


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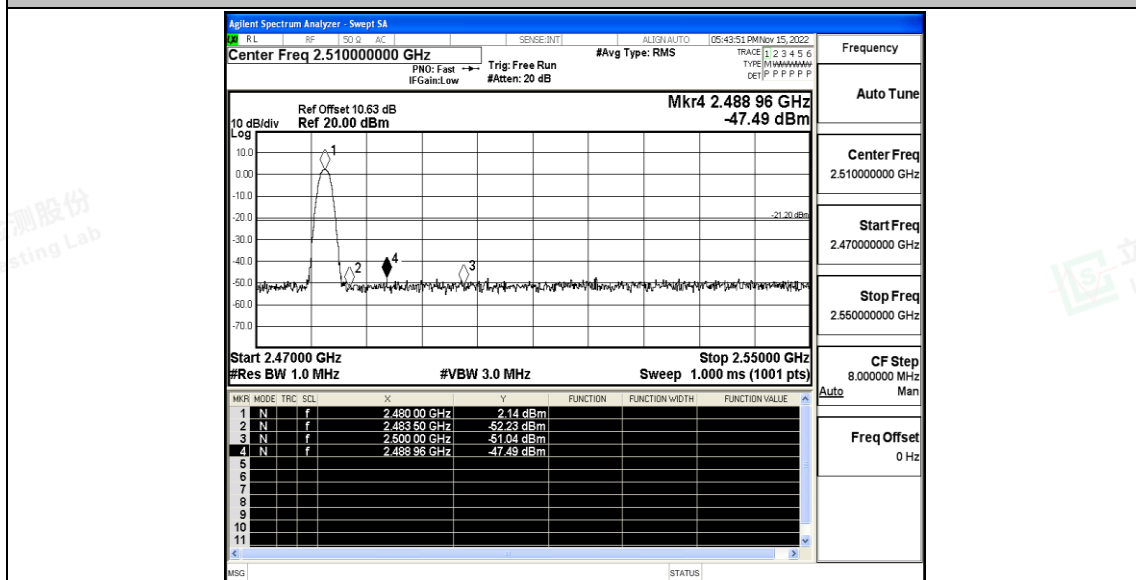
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

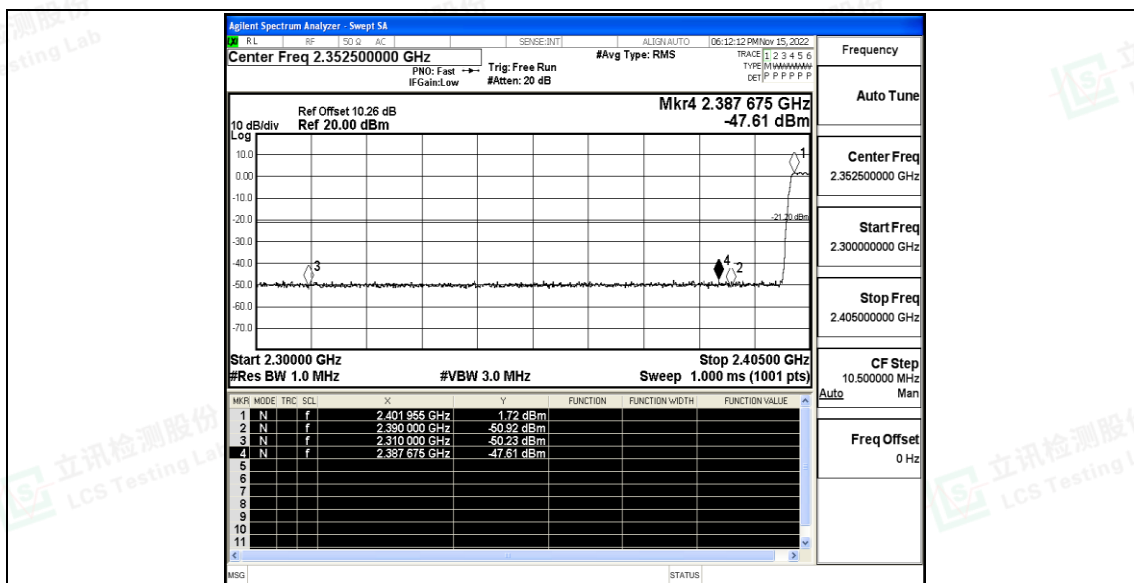


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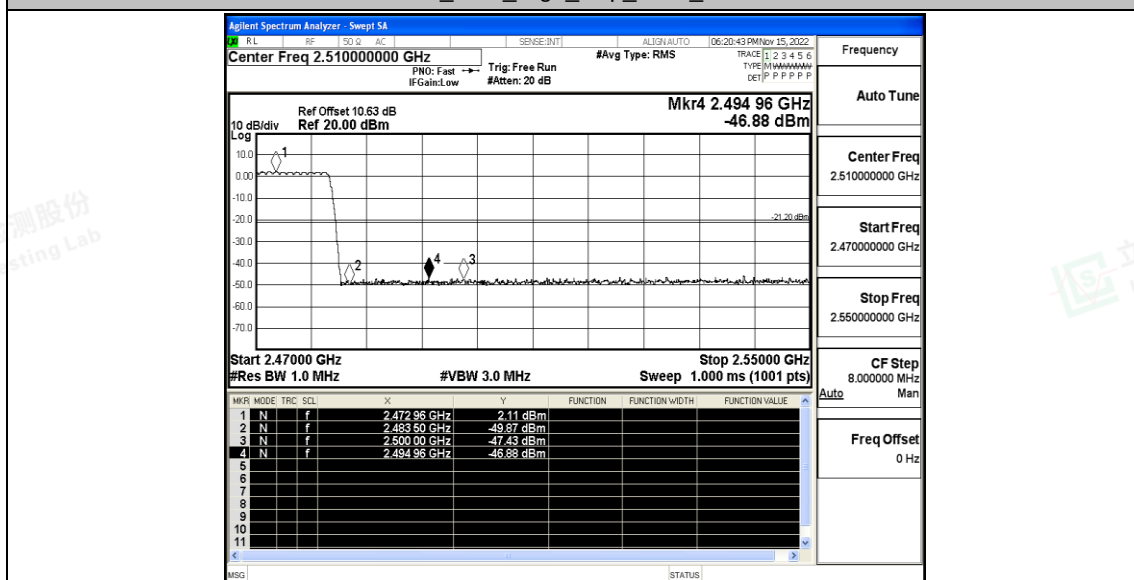
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

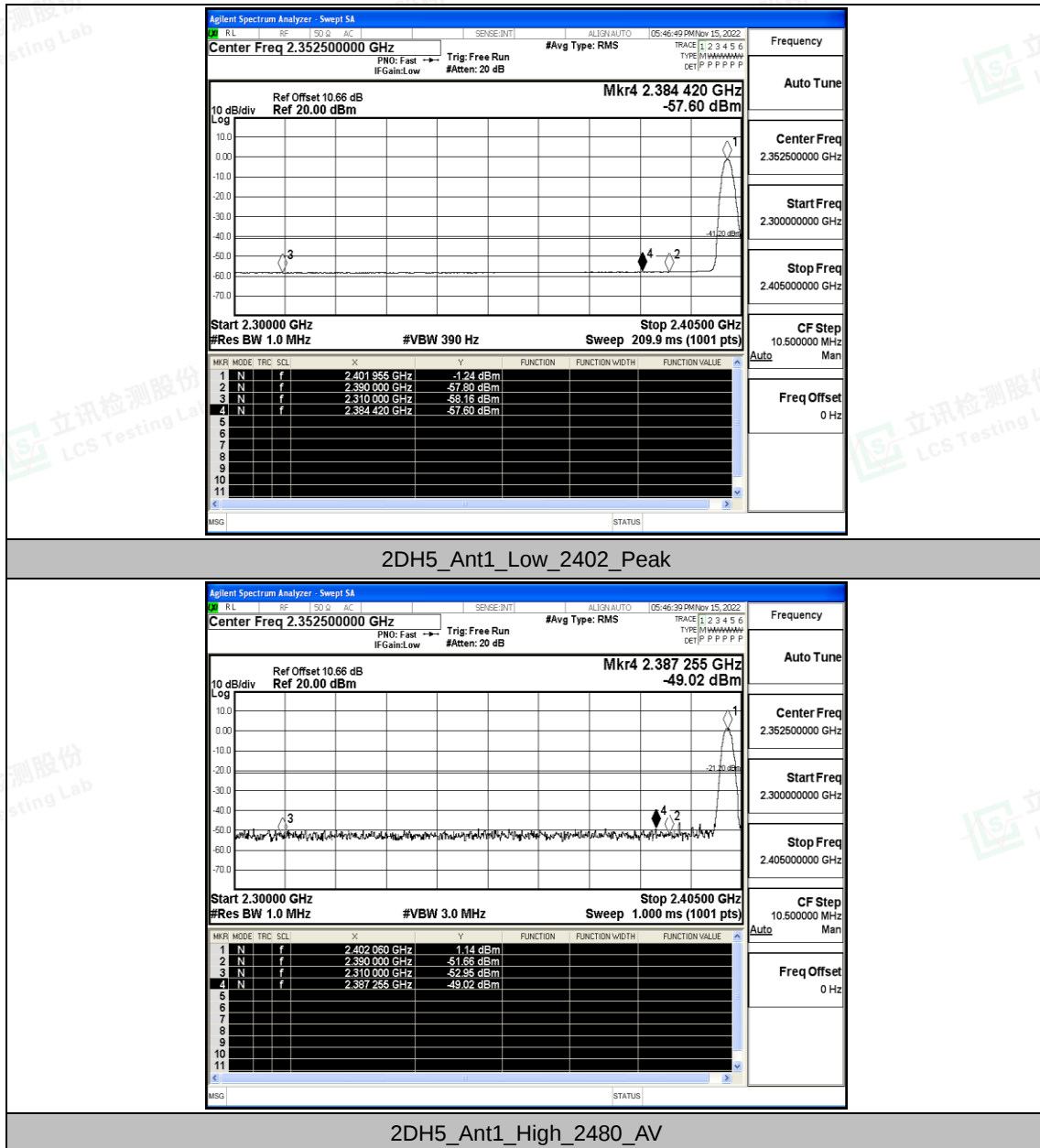


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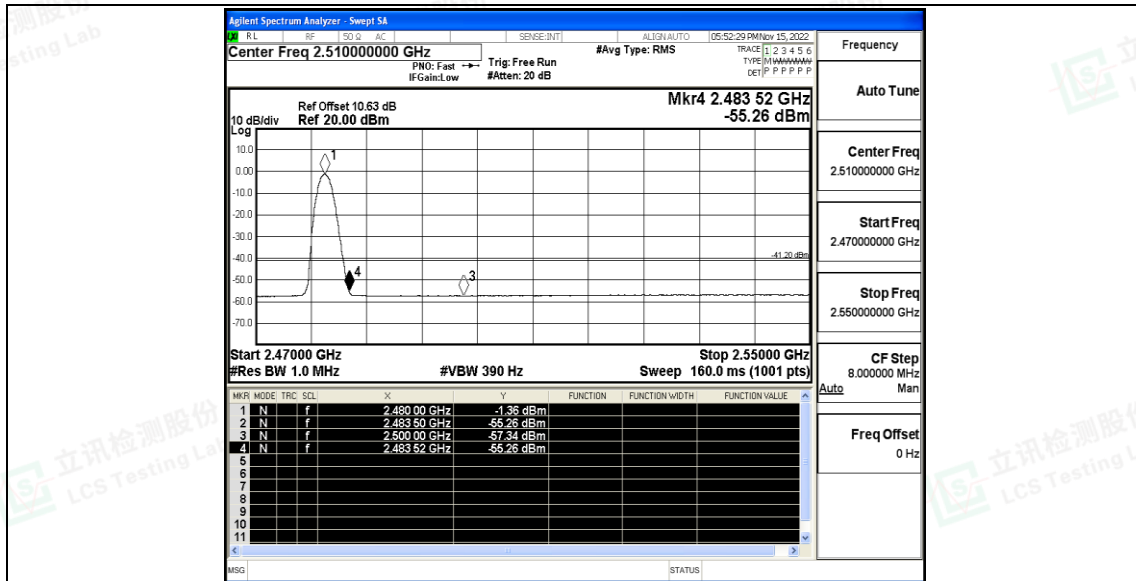


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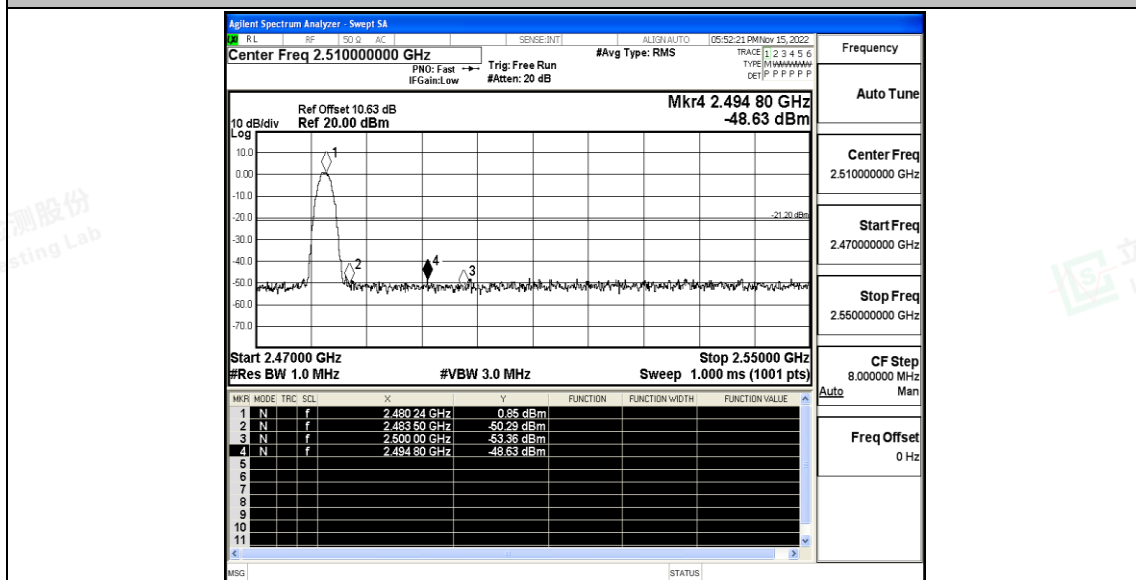
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

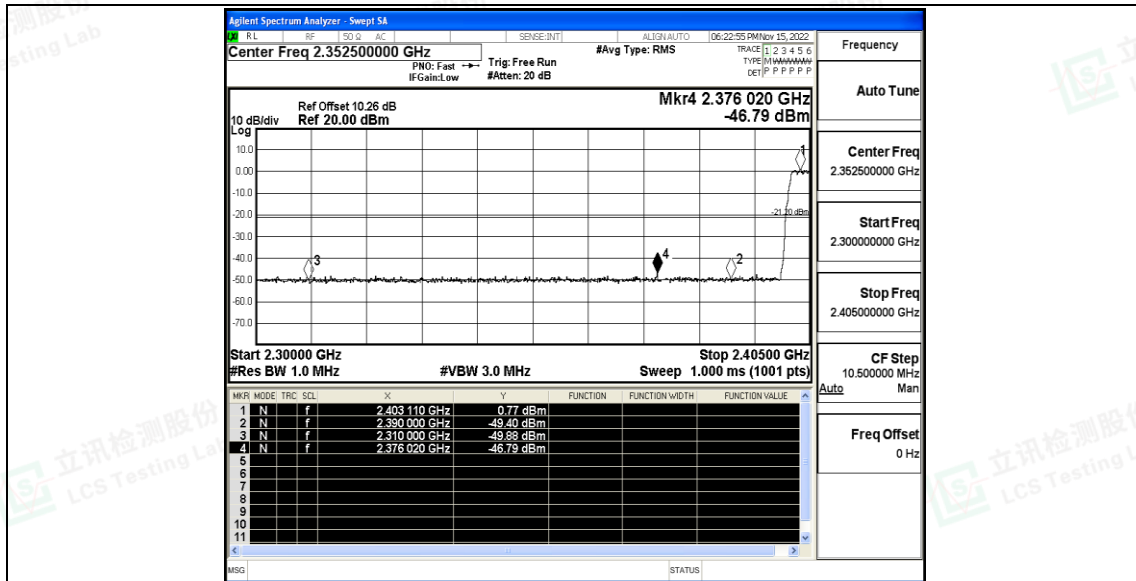


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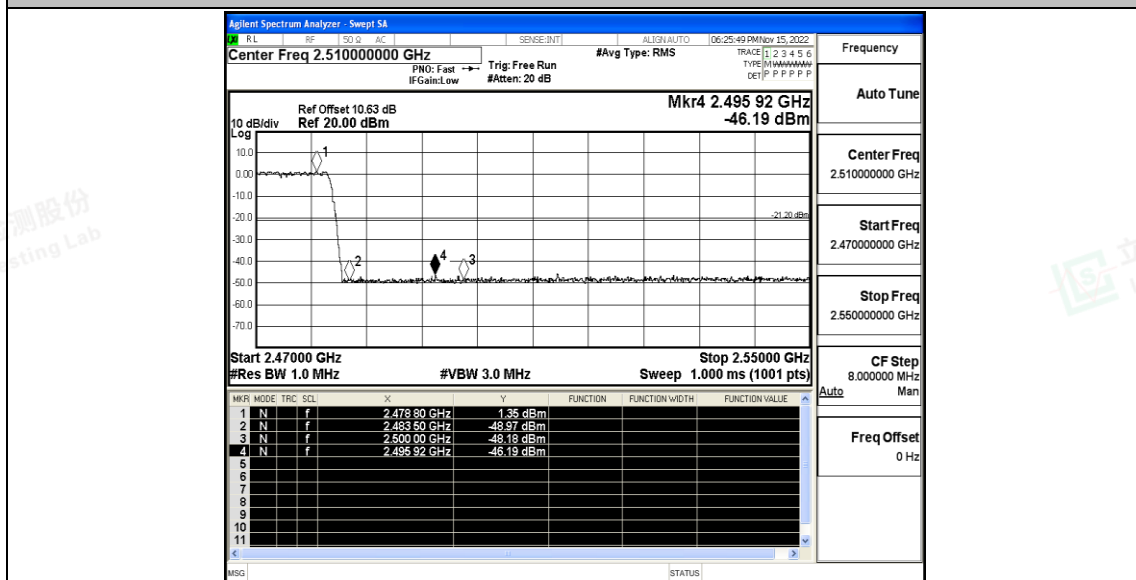
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

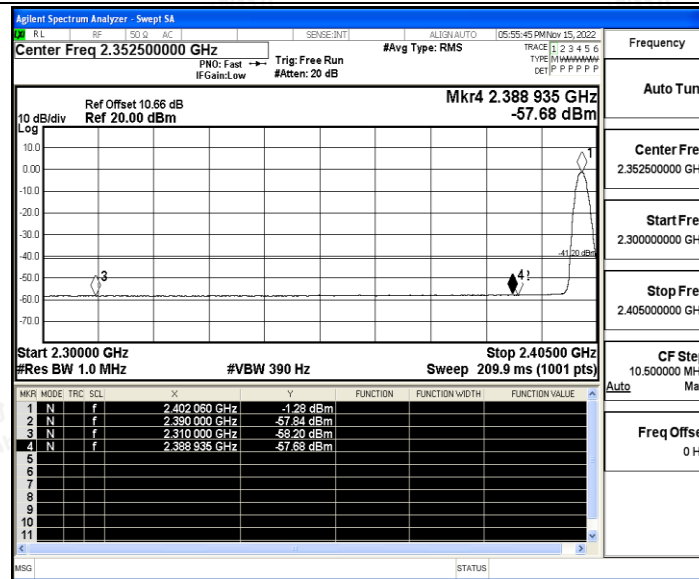


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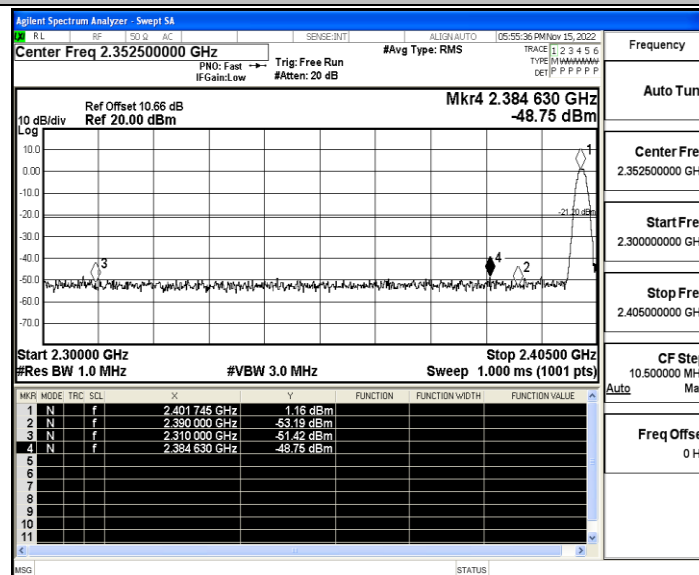
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

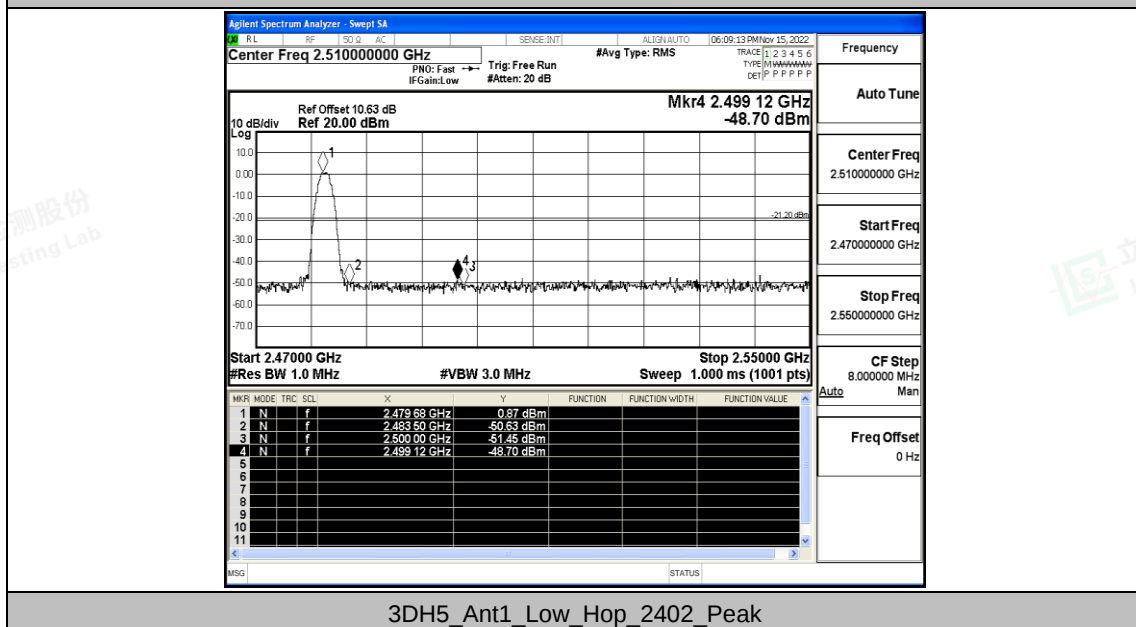
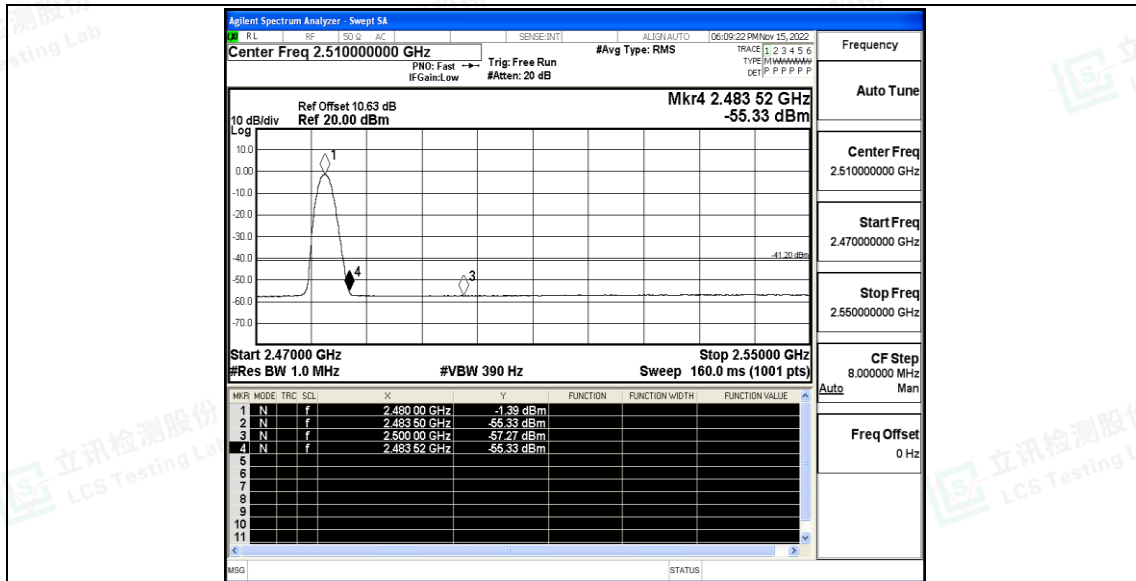


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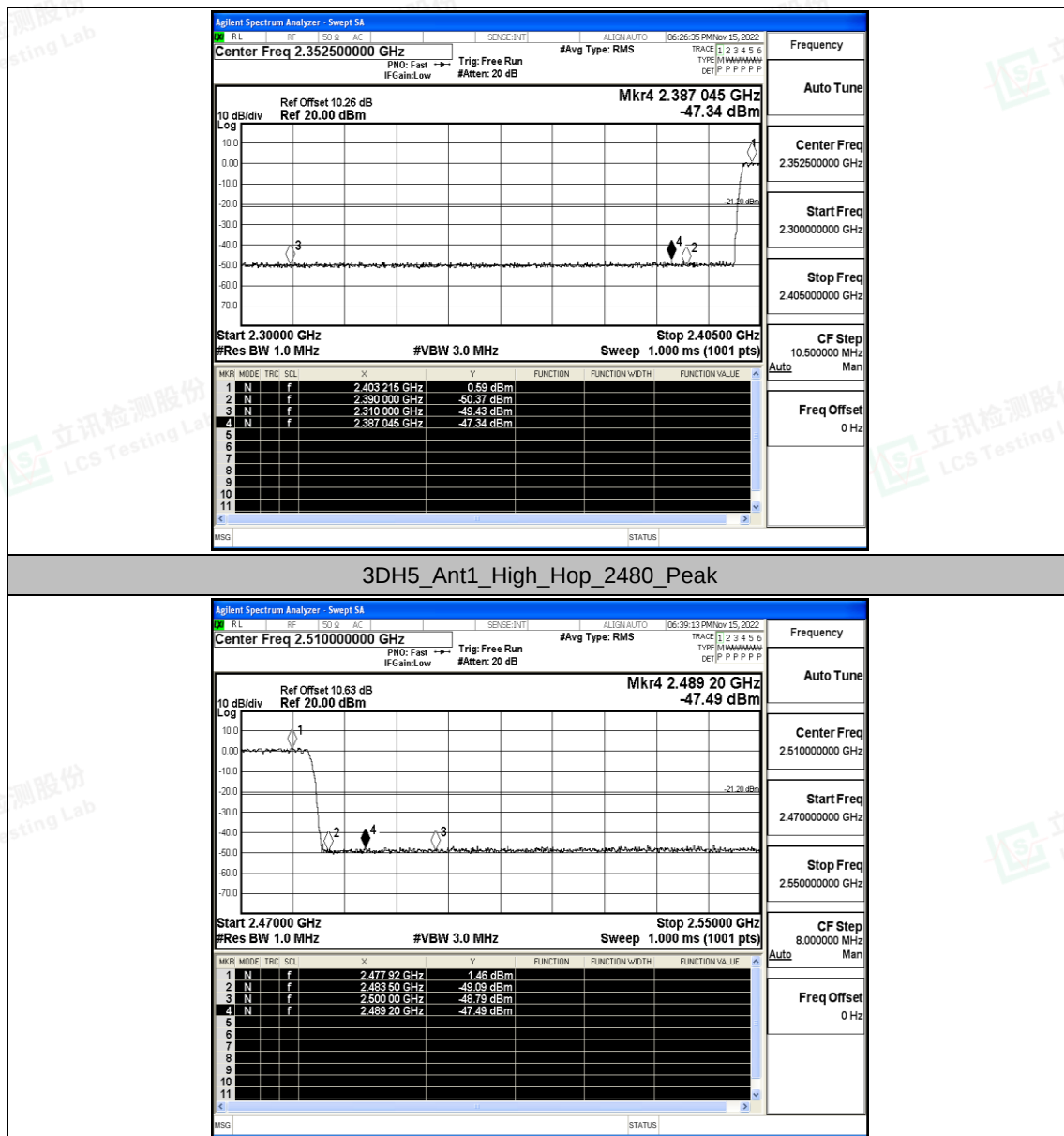


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