



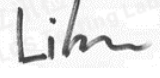
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Formuler Z11 Pro Max

Test Model: Z11 Pro Max

Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan





A.1 20dB Emission Bandwidth

Test Result

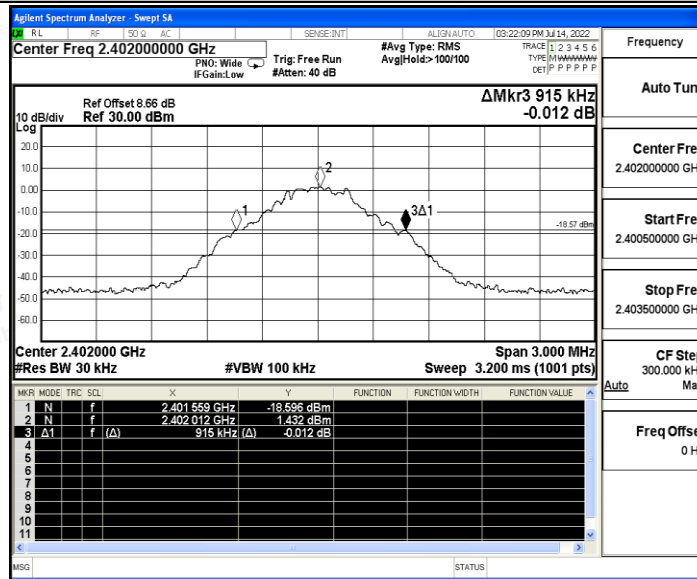
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	0.915	2401.559	2402.474	---
		2441	1.098	2440.544	2441.486	---
		2480	0.927	2479.544	2480.471	---
2DH5	Ant	2402	1.284	2401.361	2402.645	---
		2441	1.293	2440.361	2441.654	---
		2480	1.281	2479.361	2480.642	---
3DH5	Ant	2402	1.299	2401.346	2402.645	---
		2441	1.314	2440.343	2441.657	---
		2480	1.311	2479.340	2480.651	---



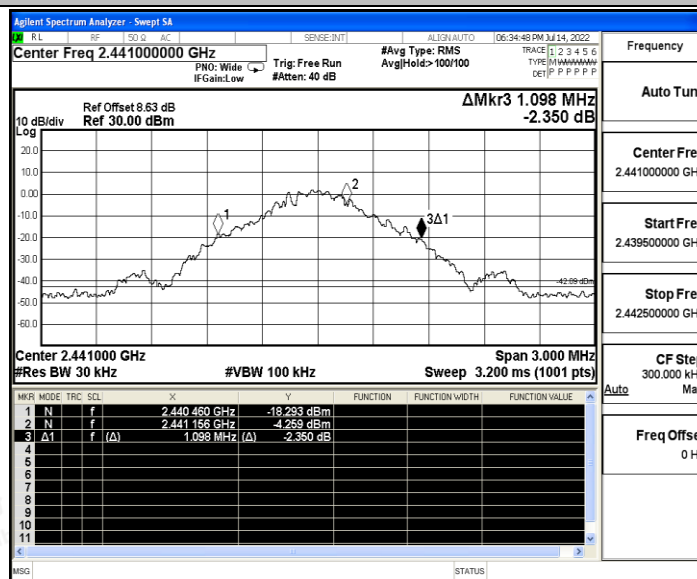


Test Graphs

DH5_Ant_2402

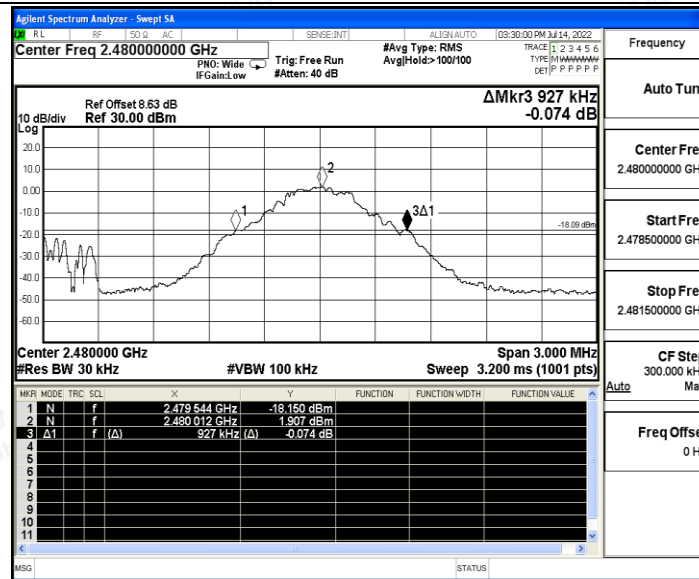


DH5_Ant_2441

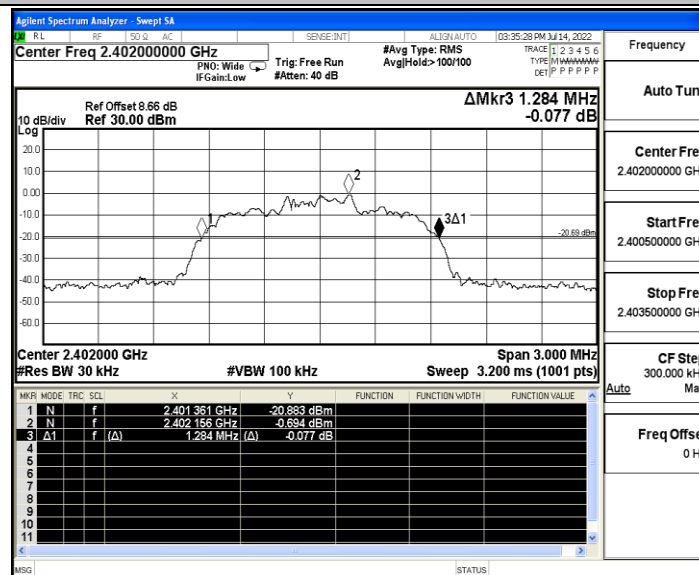


DH5_Ant_2480



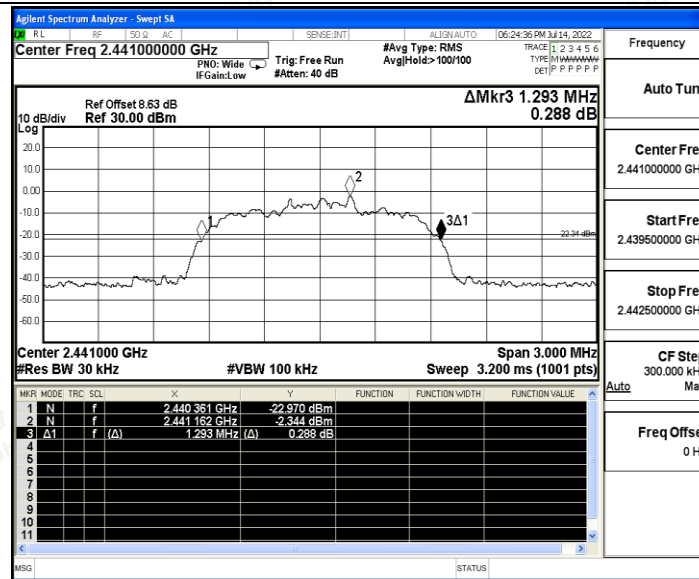


2DH5_Ant_2402

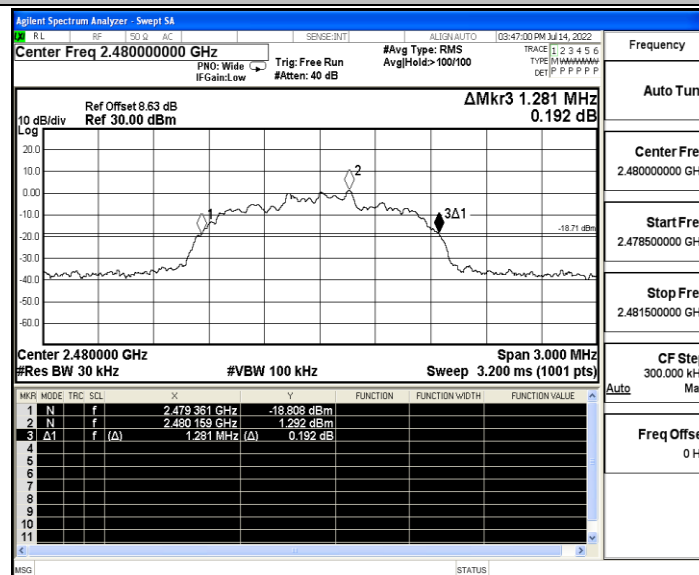


2DH5_Ant_2441



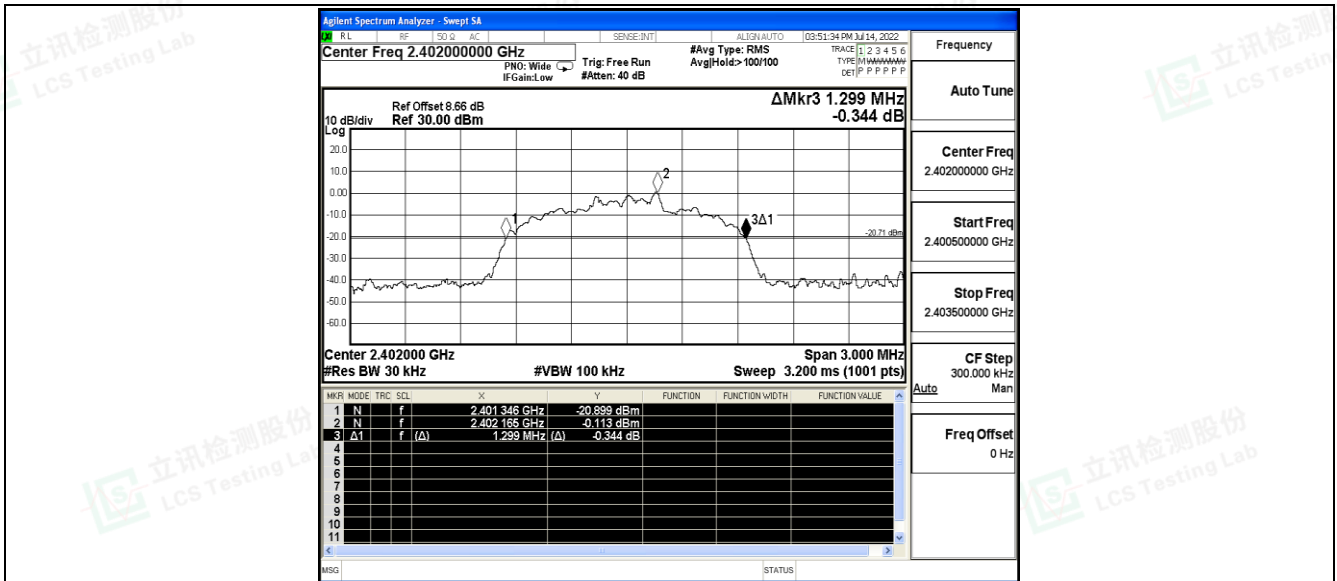


2DH5_Ant_2480

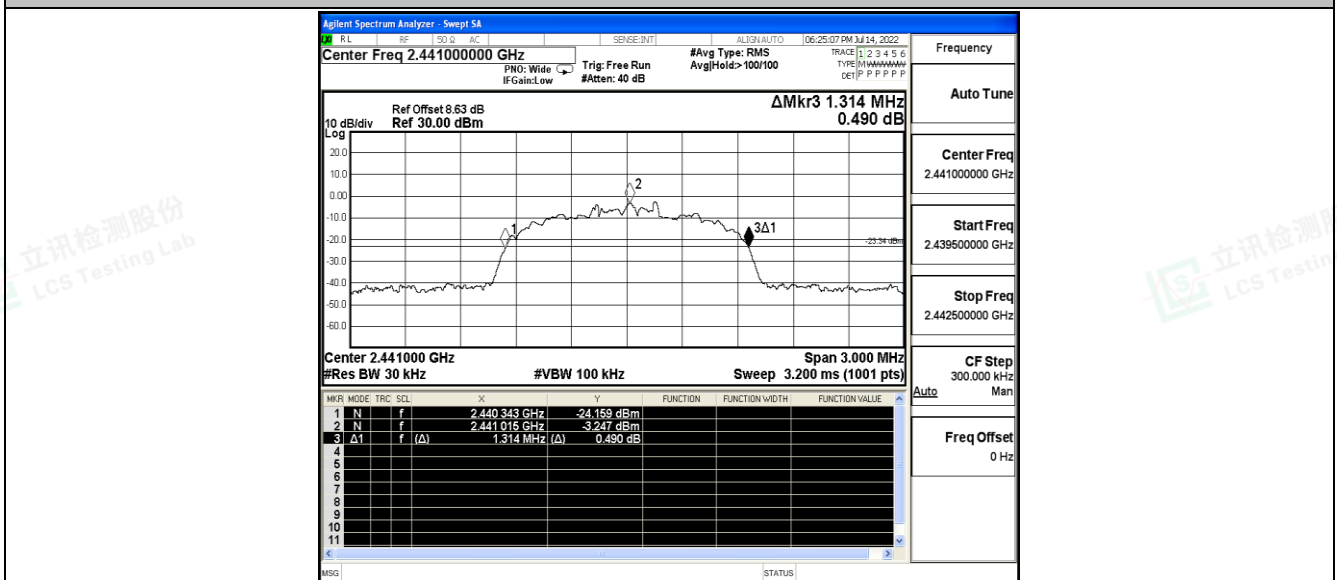


3DH5_Ant_2402



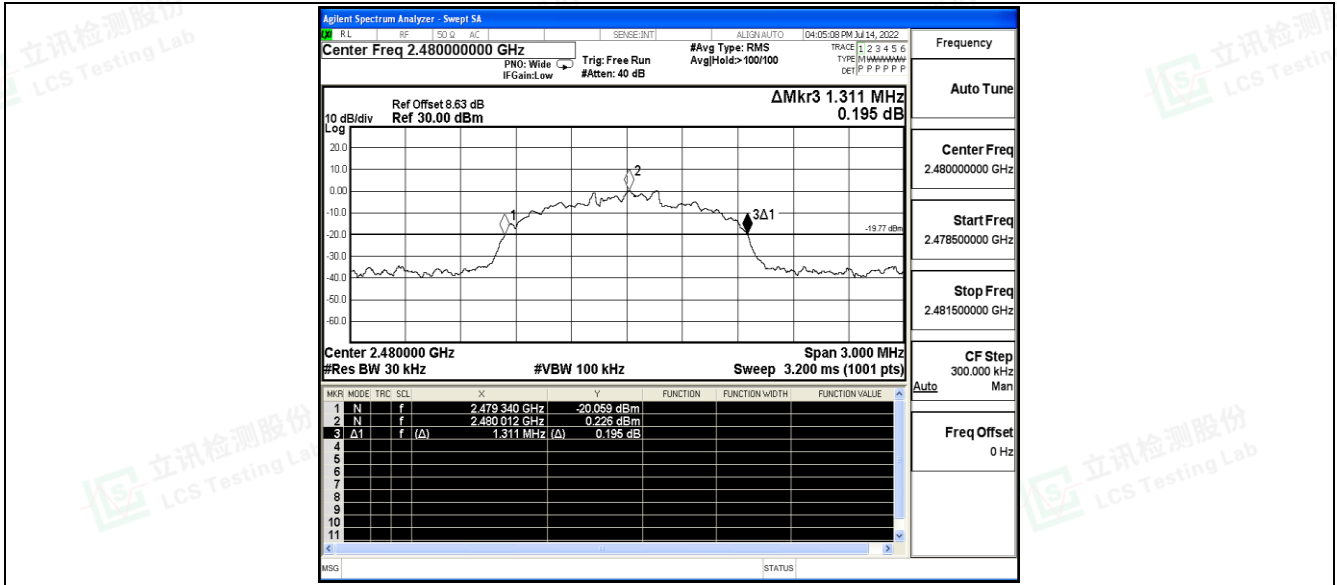


3DH5_Ant_2441



3DH5_Ant_2480







A.2 Maximum peak conducted output power

Test Result

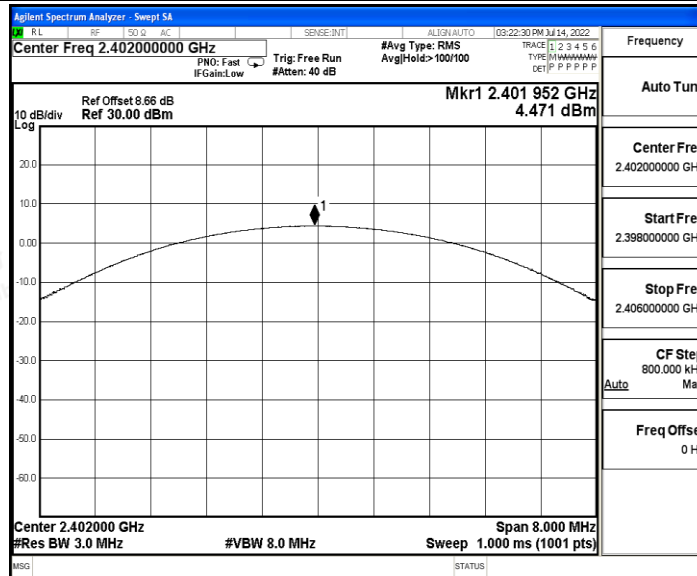
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	4.47	≤ 20.97	PASS
		2441	4.59	≤ 20.97	PASS
		2480	4.94	≤ 20.97	PASS
2DH5	Ant	2402	3.35	≤ 20.97	PASS
		2441	5.96	≤ 20.97	PASS
		2480	4.9	≤ 20.97	PASS
3DH5	Ant	2402	3.35	≤ 20.97	PASS
		2441	6.07	≤ 20.97	PASS
		2480	4.84	≤ 20.97	PASS



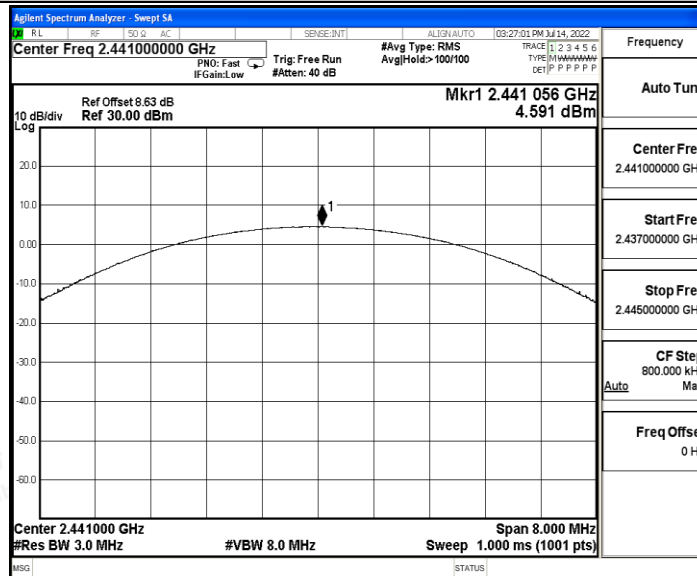


Test Graphs

DH5_Ant_2402

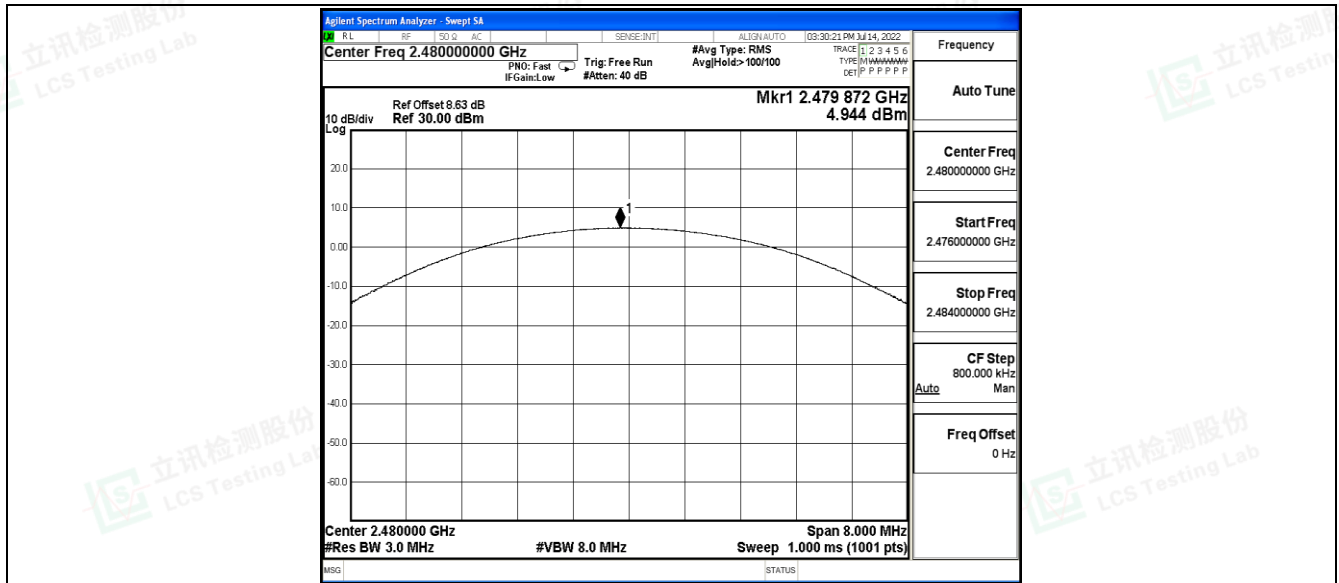


DH5_Ant_2441

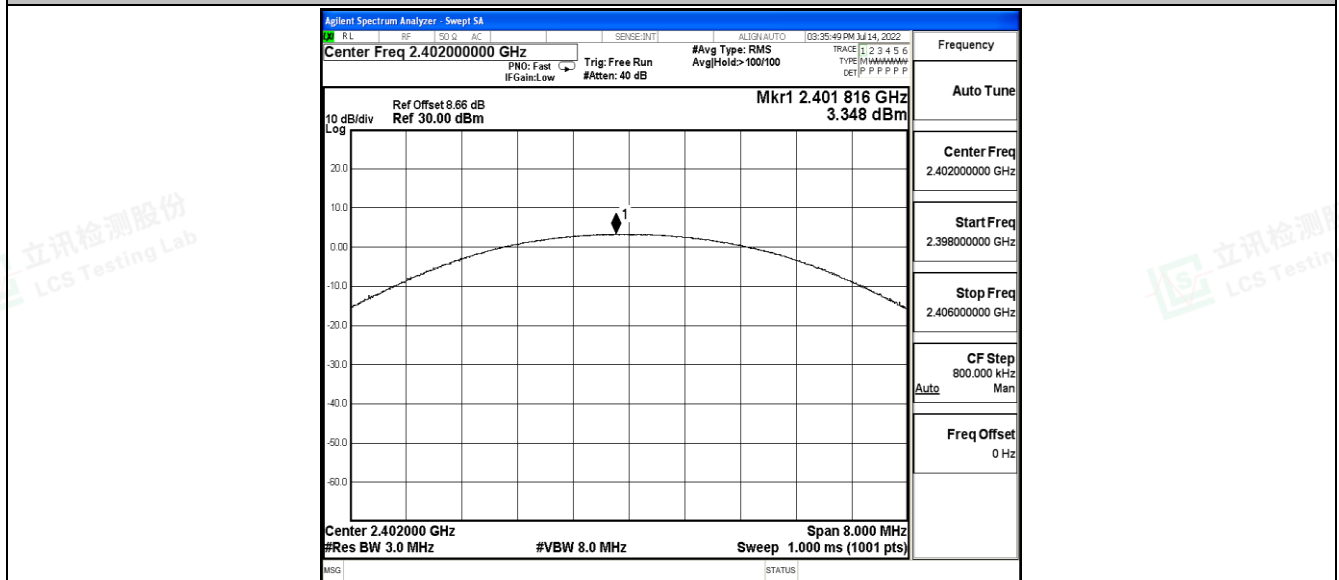


DH5_Ant_2480



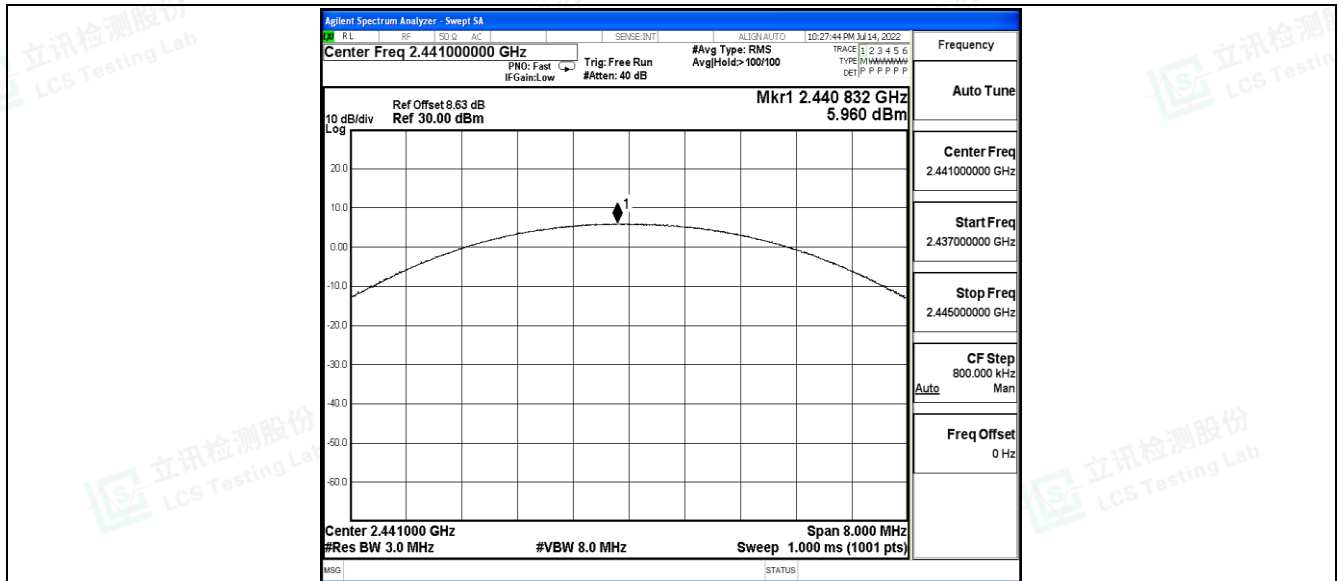


2DH5_Ant_2402

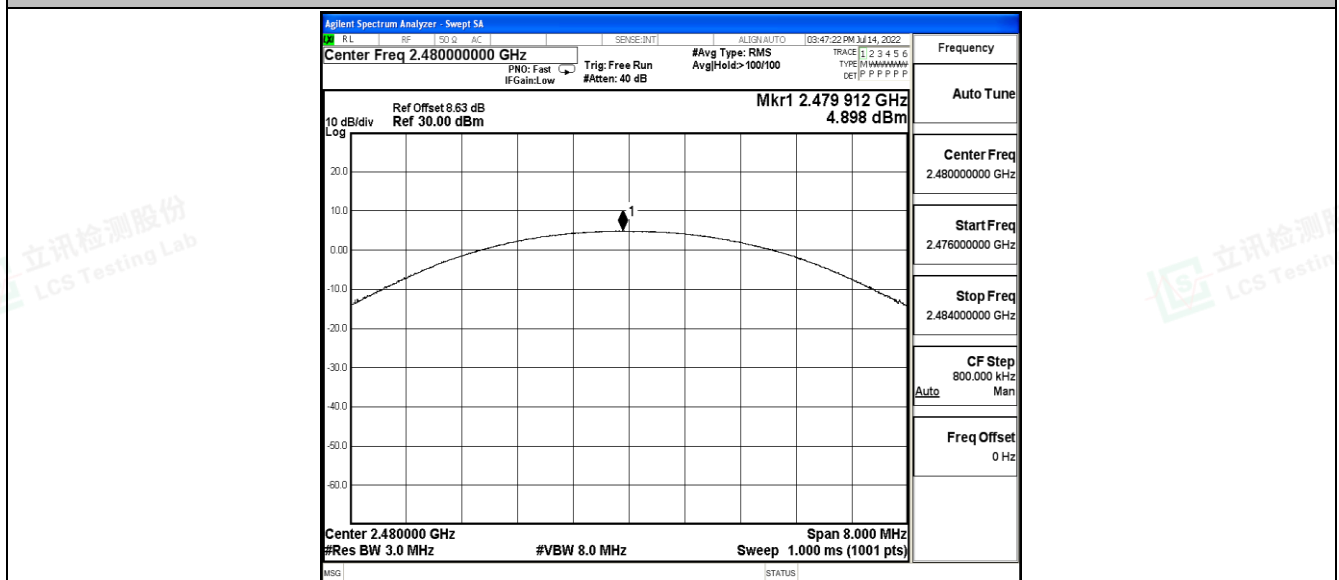


2DH5_Ant_2441



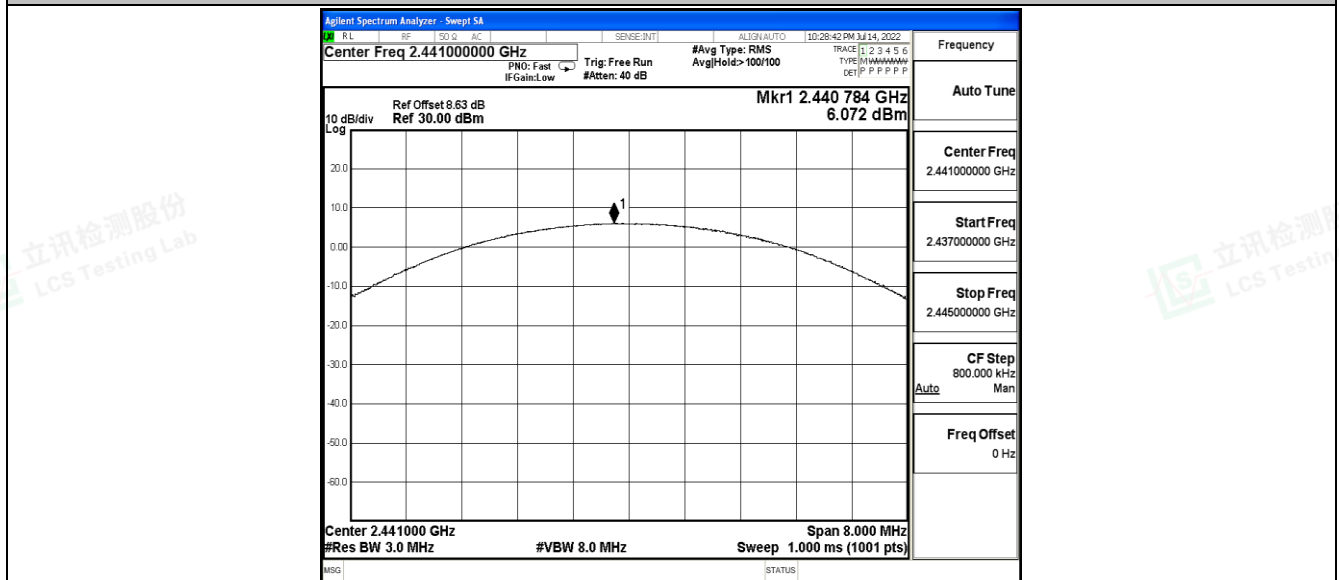
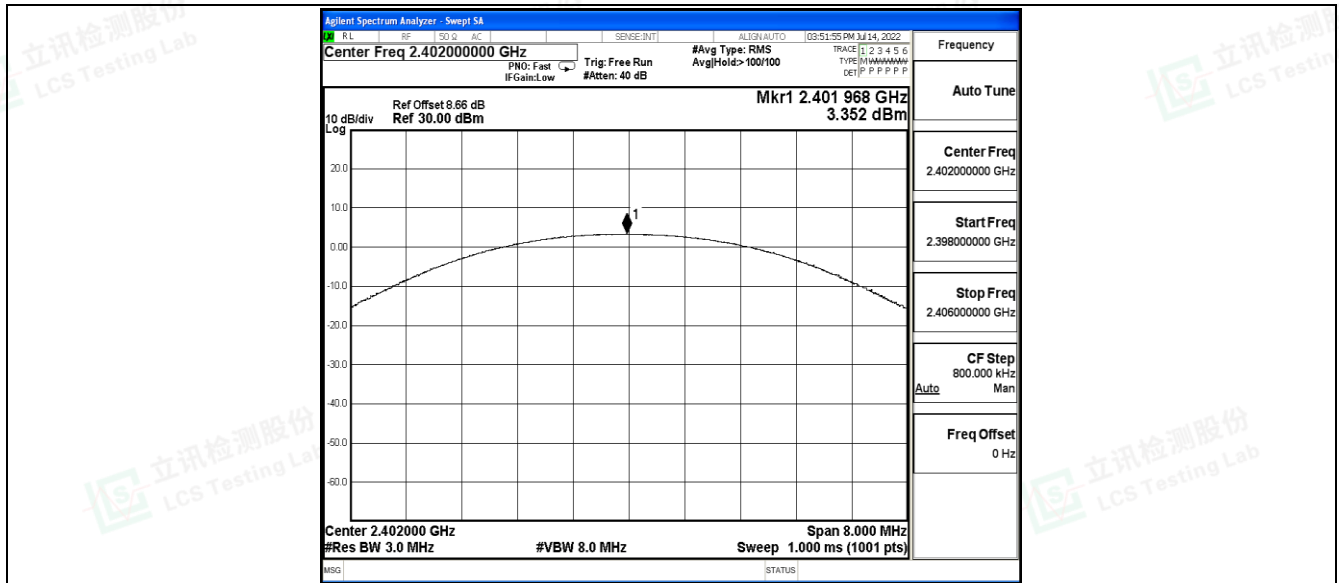


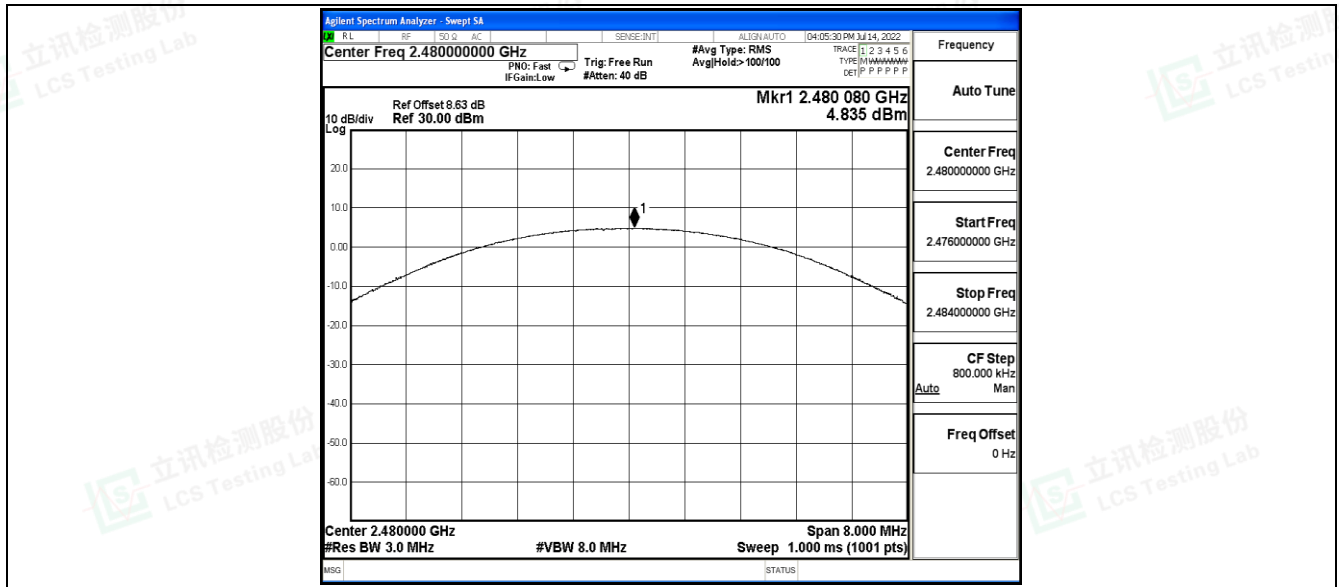
2DH5_Ant_2480



3DH5_Ant_2402









A.3 Carrier frequency separation

Test Result

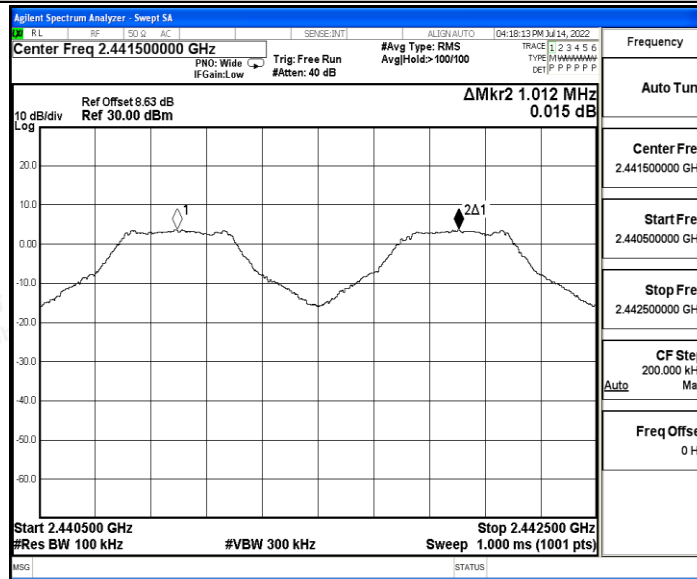
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.012	≥0.628	PASS
2DH5	Ant	Hop	1.22	≥0.862	PASS
3DH5	Ant	Hop	1.218	≥0.876	PASS



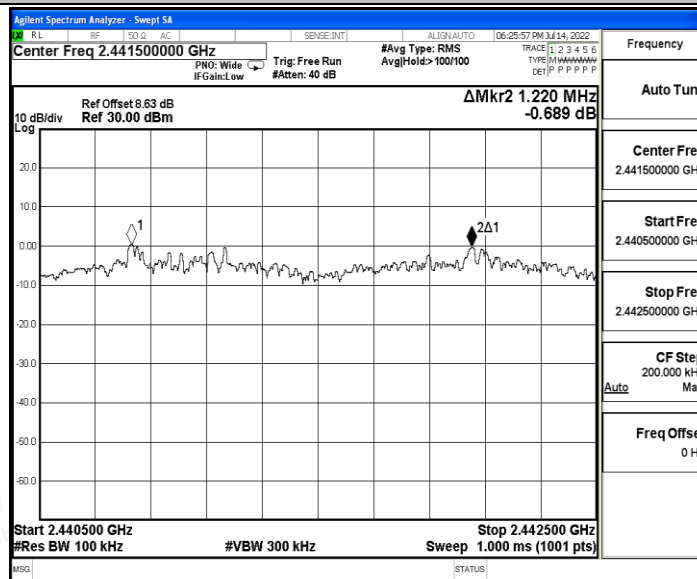


Test Graphs

DH5_Ant_Hop

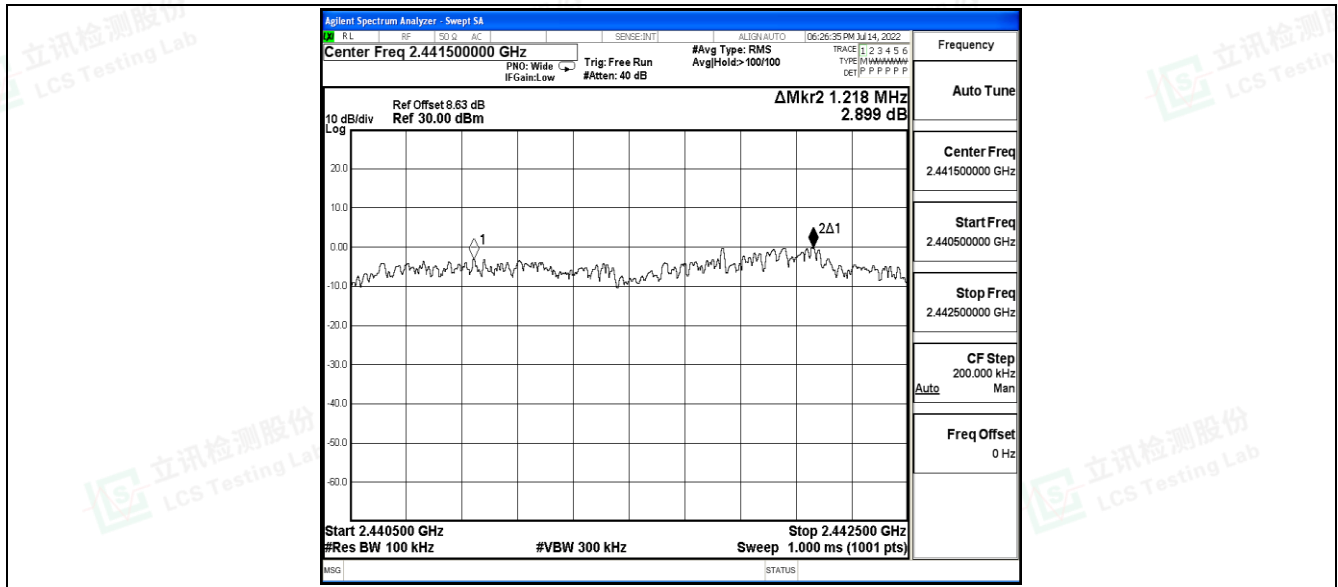


2DH5_Ant_Hop



3DH5_Ant_Hop







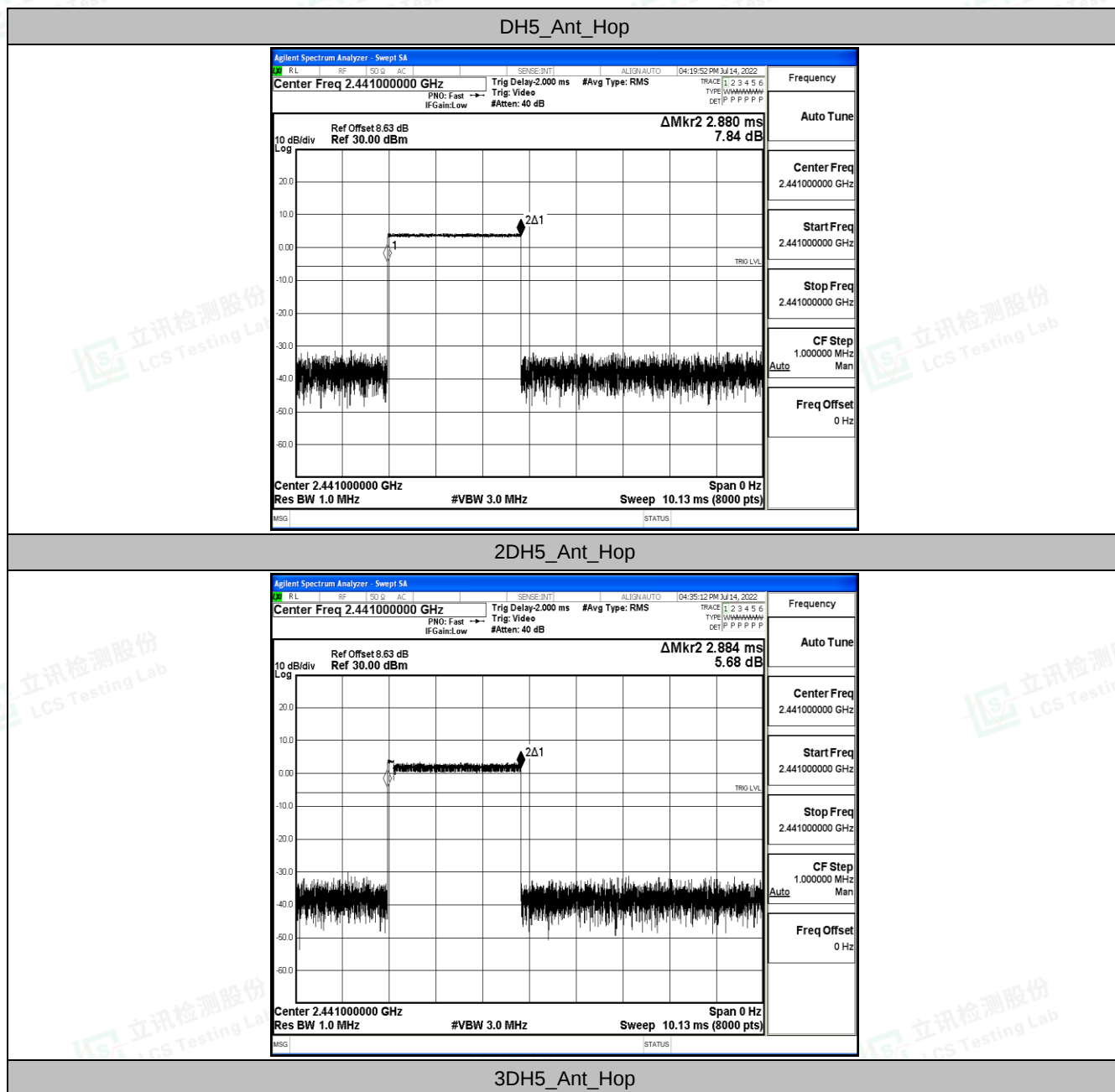
A.4 Time of occupancy

Test Result

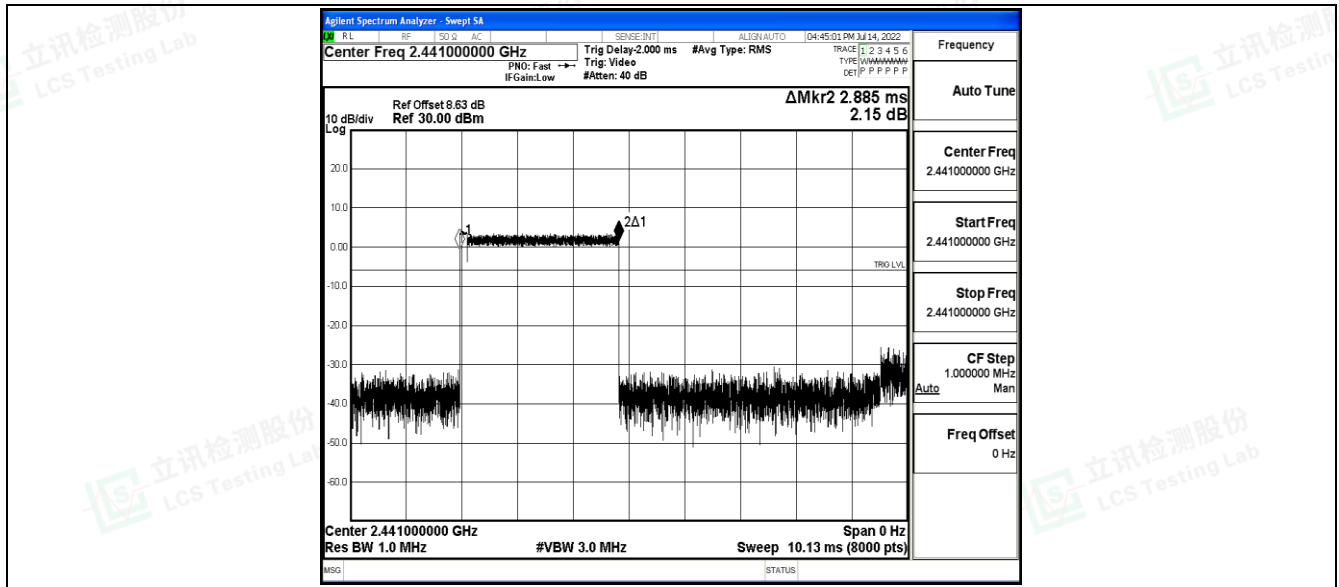
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant	Hop	2.89	106.67	0.308	≤0.4	PASS



Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity





A.5 Number of hopping channels

Test Result

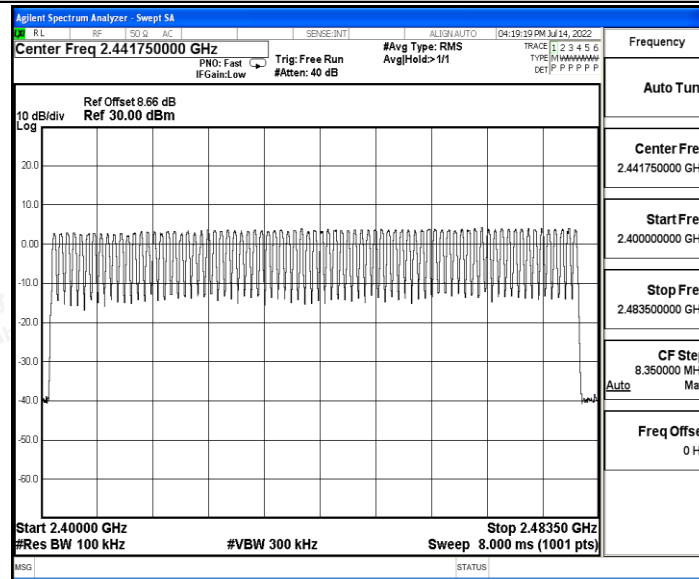
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥15	PASS
2DH5	Ant	Hop	79	≥15	PASS
3DH5	Ant	Hop	79	≥15	PASS



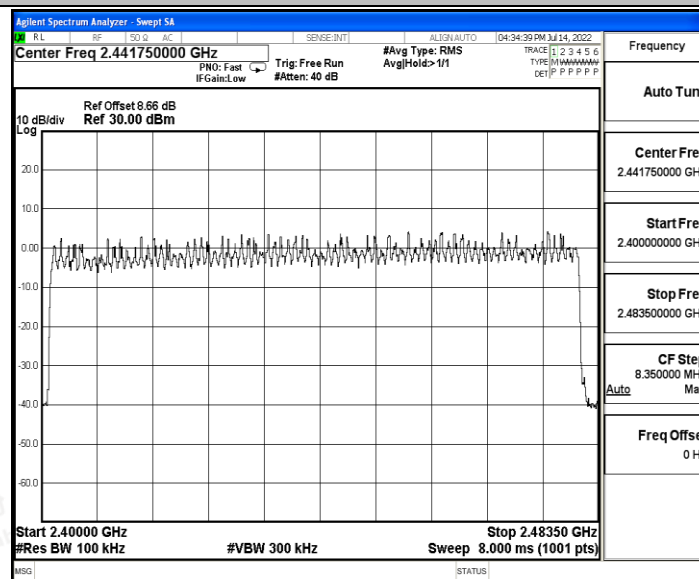


Test Graphs

DH5_Ant_Hop

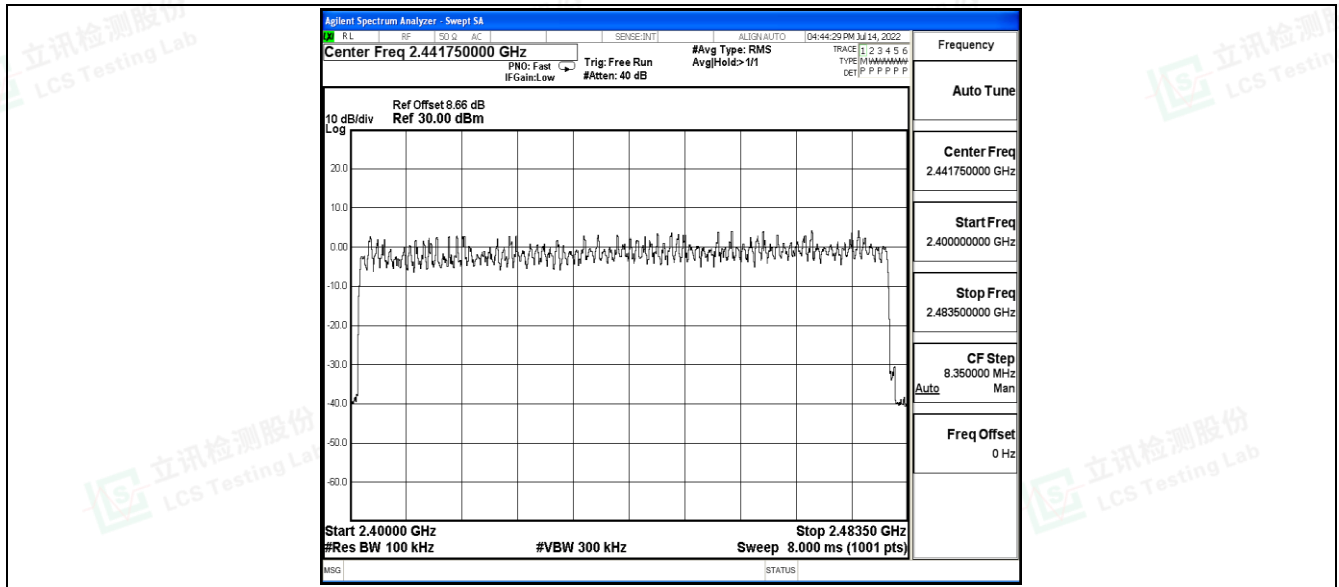


2DH5_Ant_Hop



3DH5_Ant_Hop







A.6 Band edge measurements

Test Result

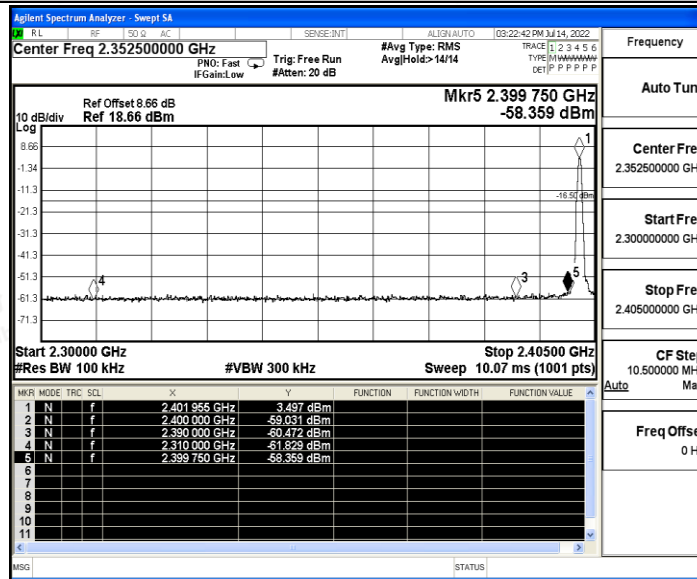
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	3.50	-58.36	≤ -16.5	PASS
		High	2480	3.94	-57.53	≤ -16.06	PASS
		Low	Hop_2402	1.66	-58.93	≤ -18.34	PASS
		High	Hop_2480	3.76	-57.32	≤ -16.24	PASS
2DH5	Ant	Low	2402	2.31	-56.27	≤ -17.69	PASS
		High	2480	3.42	-58.02	≤ -16.58	PASS
		Low	Hop_2402	-2.61	-59.17	≤ -22.61	PASS
		High	Hop_2480	1.67	-57.74	≤ -18.33	PASS
3DH5	Ant	Low	2402	2.66	-56.52	≤ -17.34	PASS
		High	2480	4.07	-57.86	≤ -15.93	PASS
		Low	Hop_2402	-2.24	-59.11	≤ -22.24	PASS
		High	Hop_2480	3.81	-57.32	≤ -16.19	PASS



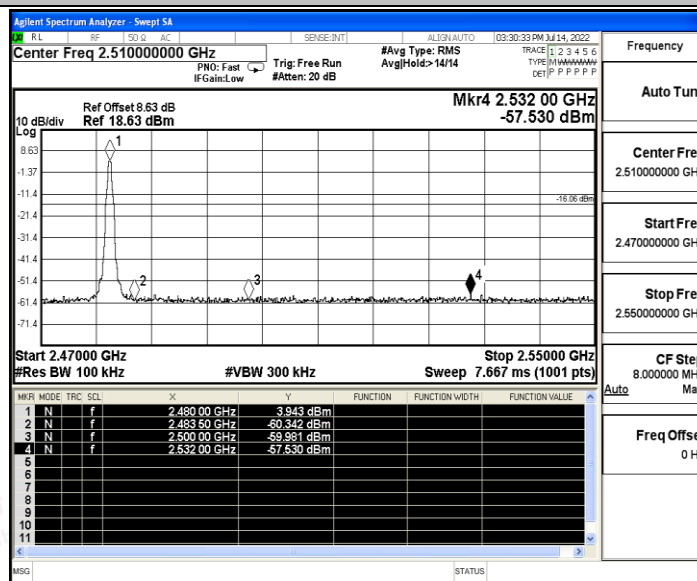


Test Graphs

DH5_Ant_Low_2402

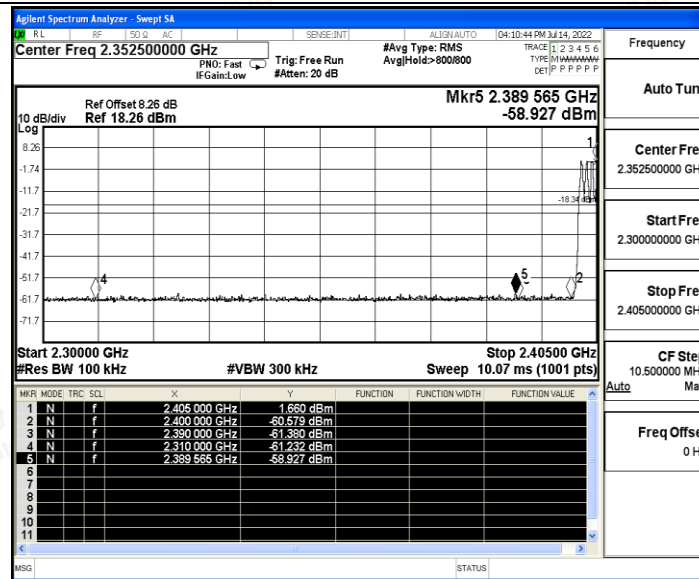


DH5_Ant_High_2480

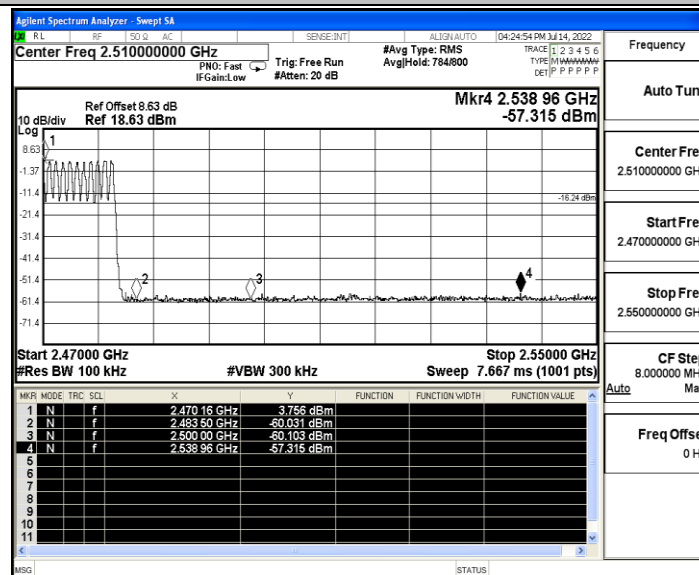


DH5_Ant_Low_Hop_2402





DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

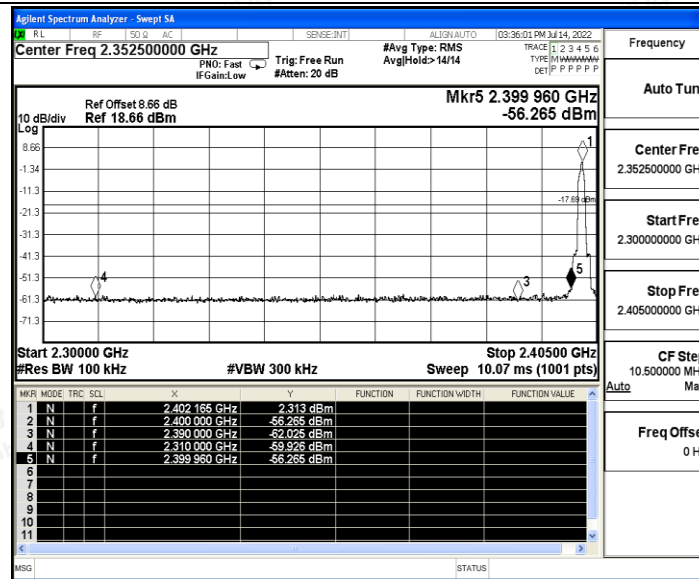


Shenzhen LCS Compliance Testing Laboratory Ltd.

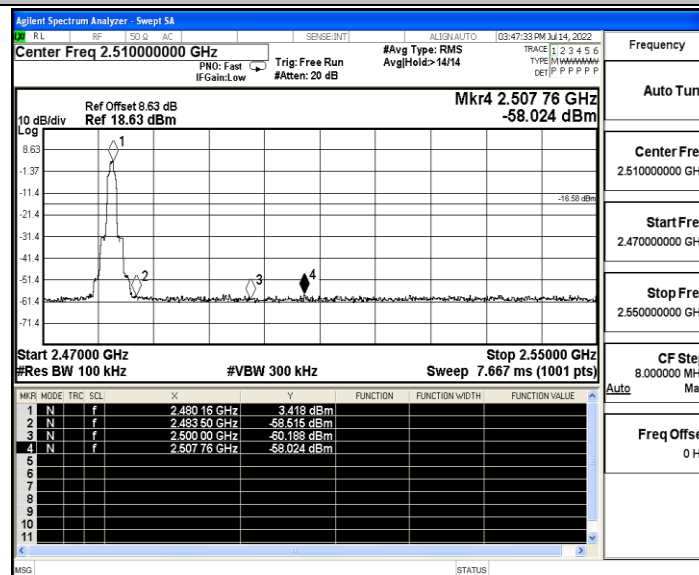
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

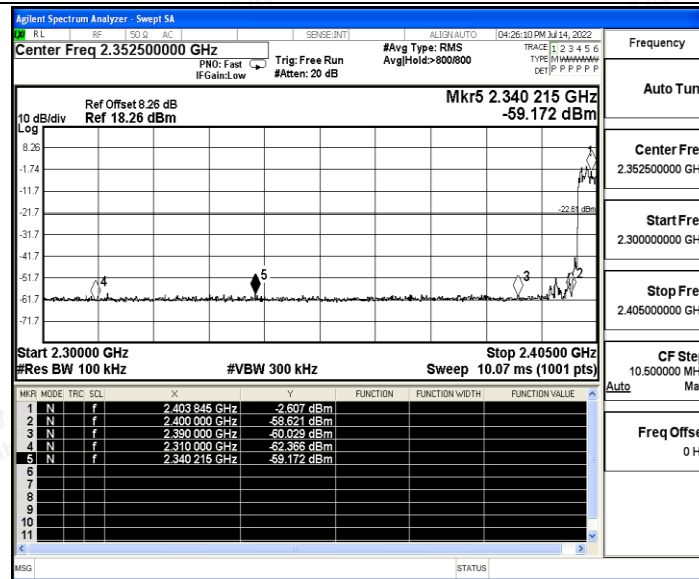


2DH5_Ant_High_2480

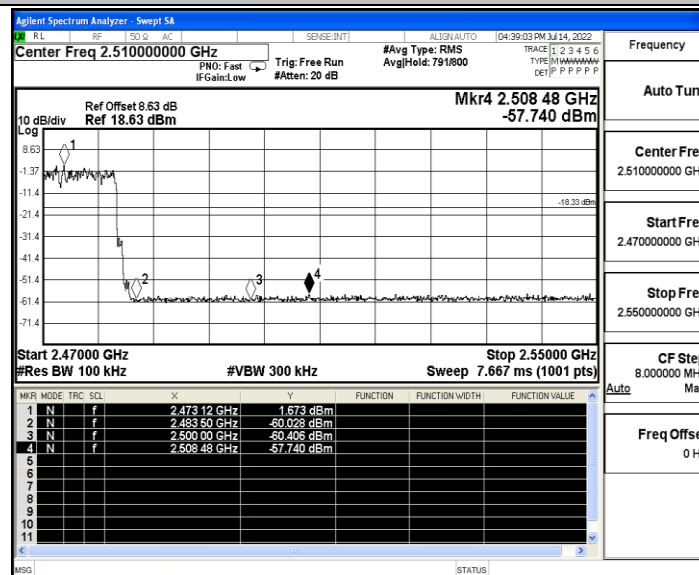


2DH5_Ant_Low_Hop_2402



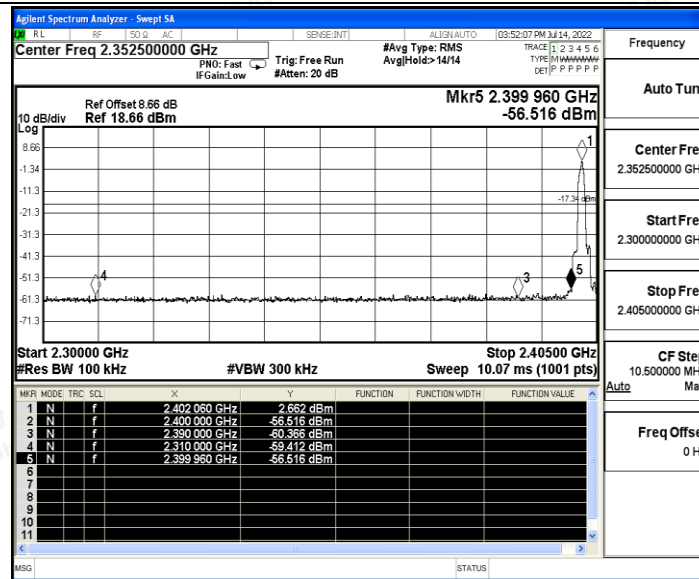


2DH5_Ant_High_Hop_2480

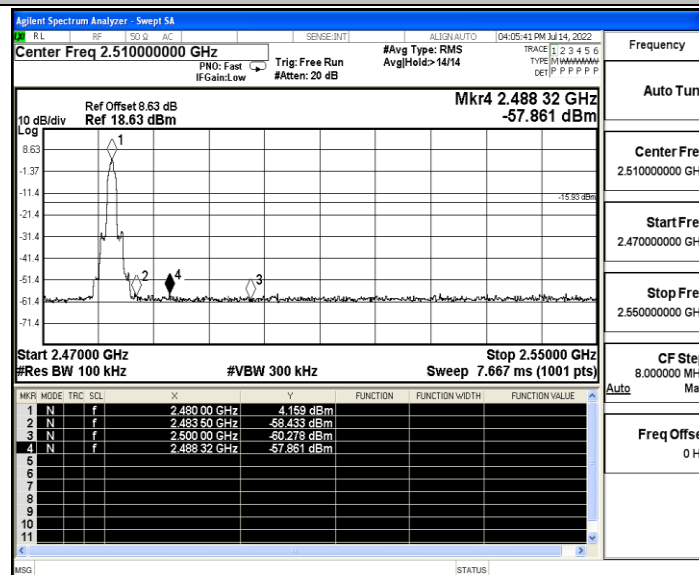


3DH5_Ant_Low_2402



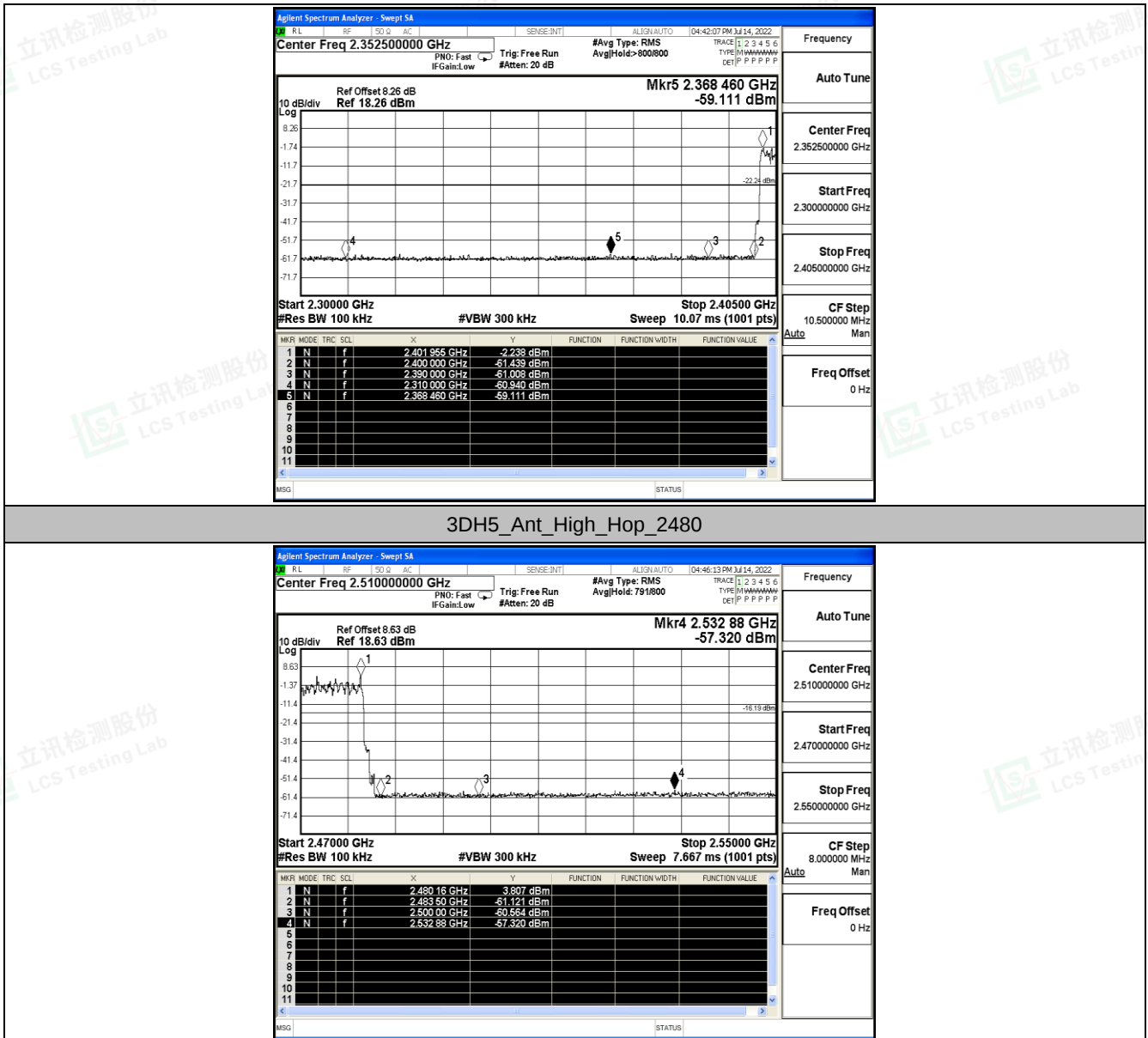


3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402







A.7 Conducted Spurious Emission

Test Result

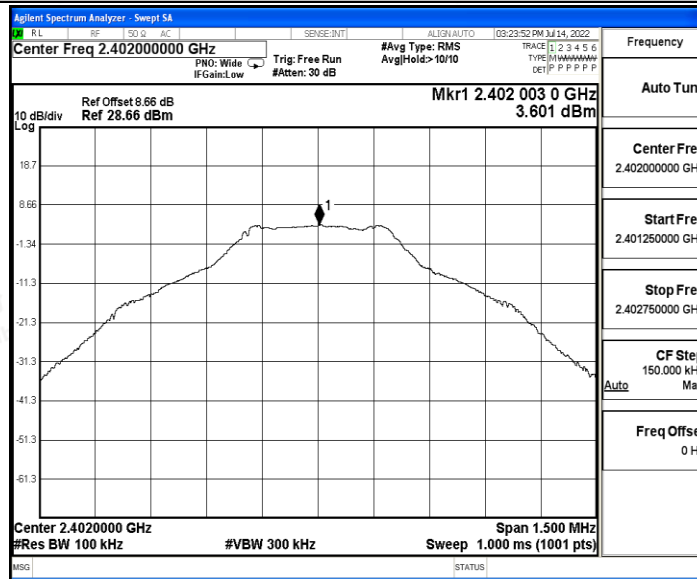
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-59.5	≤ -16.4	PASS
			1000~26500	3.60	-46.3	≤ -16.4	PASS
		2441	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-58.08	≤ -16.19	PASS
			1000~26500	3.81	-45.54	≤ -16.19	PASS
		2480	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-59.22	≤ -15.83	PASS
			1000~26500	4.17	-45.74	≤ -15.83	PASS
2DH5	Ant	2402	Reference	2.62	2.62	---	PASS
			30~1000	2.62	-59.73	≤ -17.38	PASS
			1000~26500	2.62	-45.49	≤ -17.38	PASS
		2441	Reference	3.58	3.58	---	PASS
			30~1000	3.58	-59.7	≤ -16.42	PASS
			1000~26500	3.58	-46.2	≤ -16.42	PASS
		2480	Reference	3.98	3.98	---	PASS
			30~1000	3.98	-60.11	≤ -16.02	PASS
			1000~26500	3.98	-46.16	≤ -16.02	PASS
3DH5	Ant	2402	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-58.56	≤ -17.35	PASS
			1000~26500	2.65	-46.14	≤ -17.35	PASS
		2441	Reference	3.44	3.44	---	PASS
			30~1000	3.44	-59	≤ -16.56	PASS
			1000~26500	3.44	-46.61	≤ -16.56	PASS
		2480	Reference	4.01	4.01	---	PASS
			30~1000	4.01	-59.49	≤ -15.99	PASS
			1000~26500	4.01	-46.44	≤ -15.99	PASS



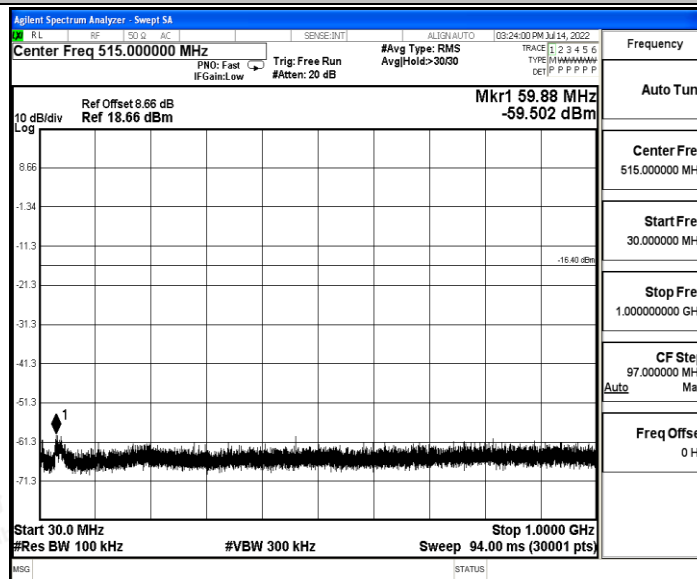


Test Graphs

DH5_Ant_2402_0~Reference

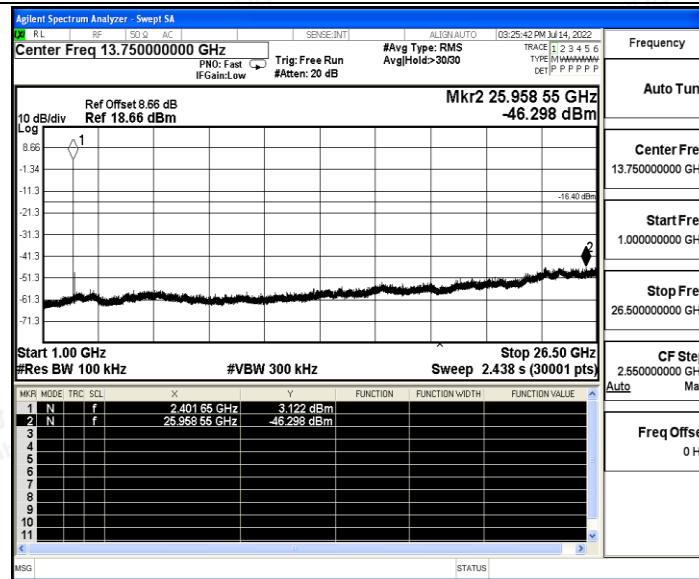


DH5_Ant_2402_30~1000

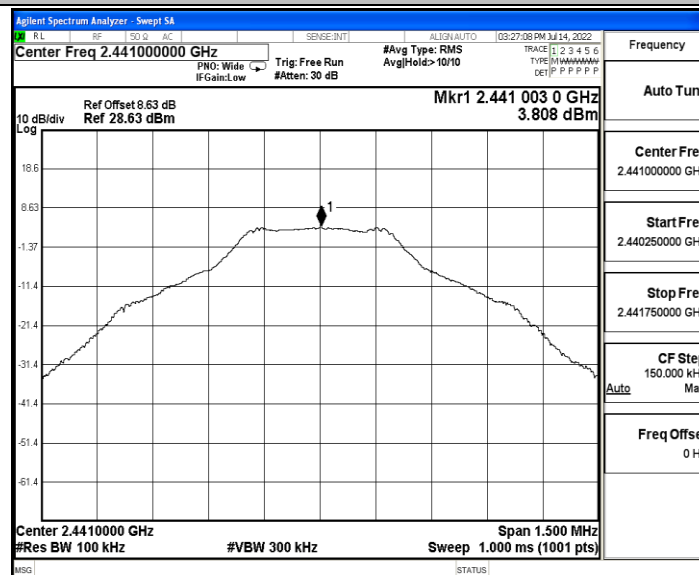


DH5_Ant_2402_1000~26500



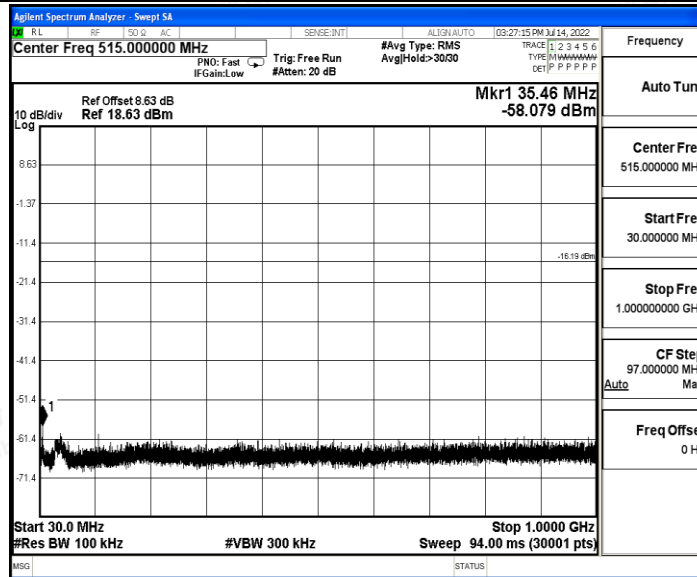


DH5_Ant_2441_0~Reference

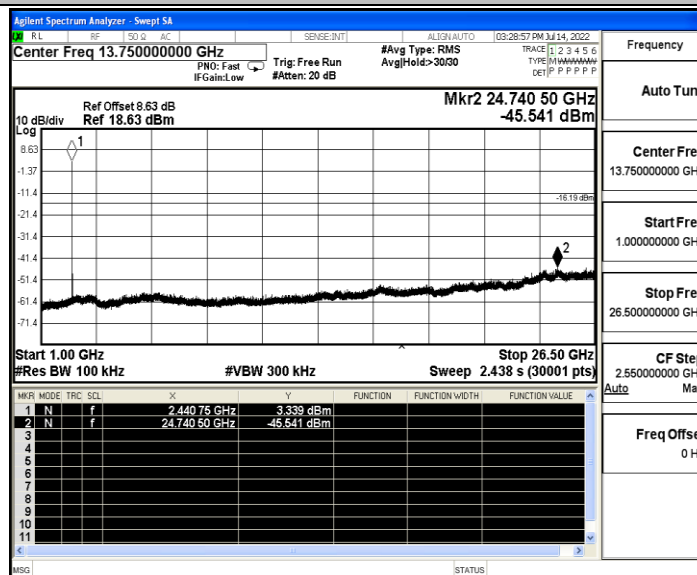


DH5_Ant_2441_30~1000



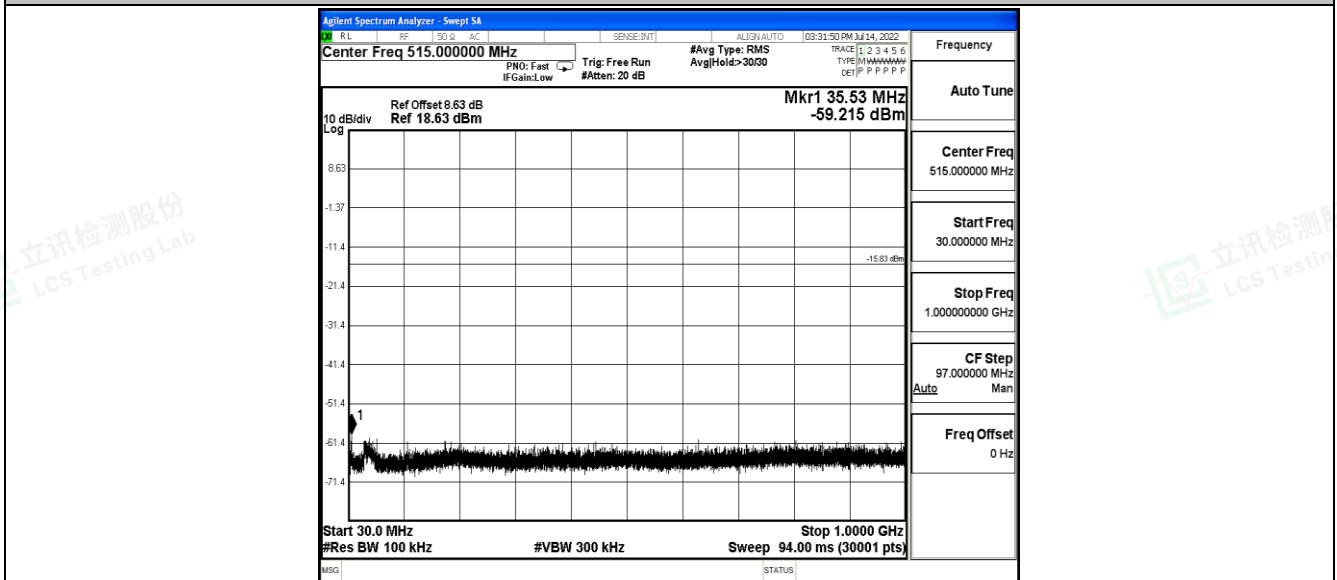
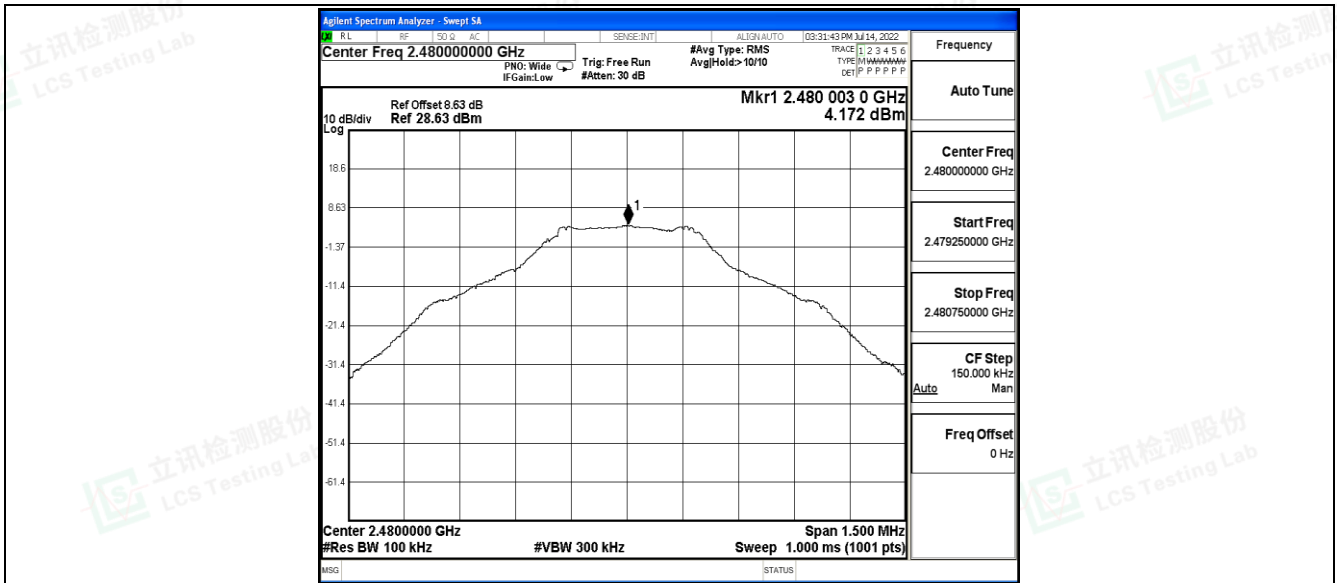


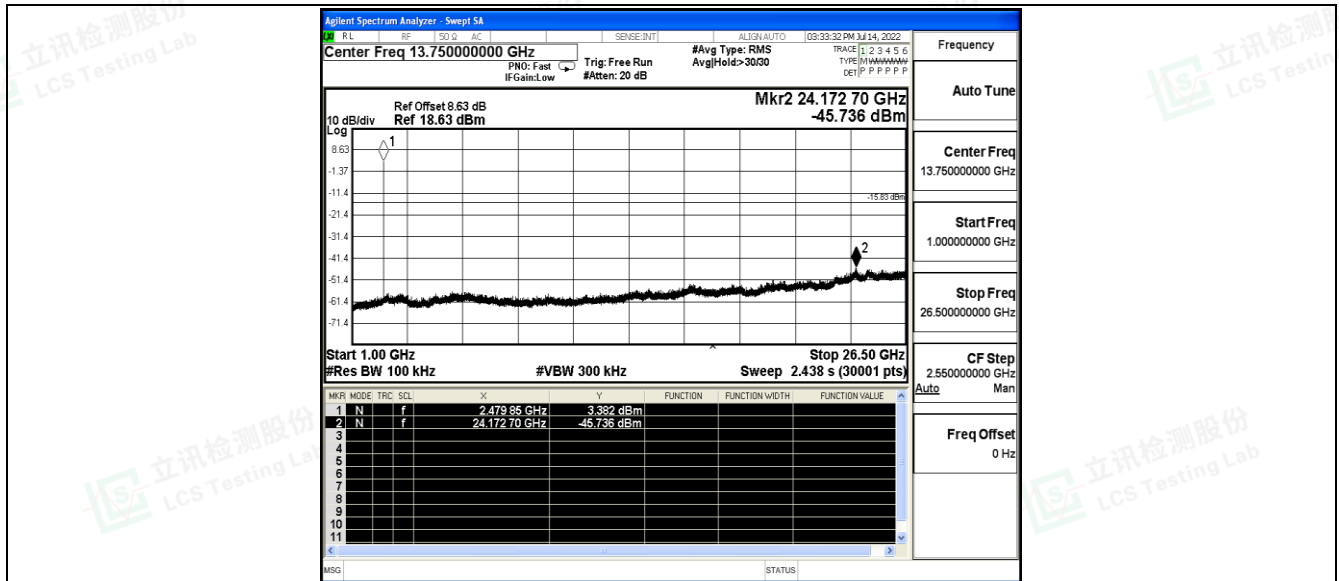
DH5_Ant_2441_1000~26500



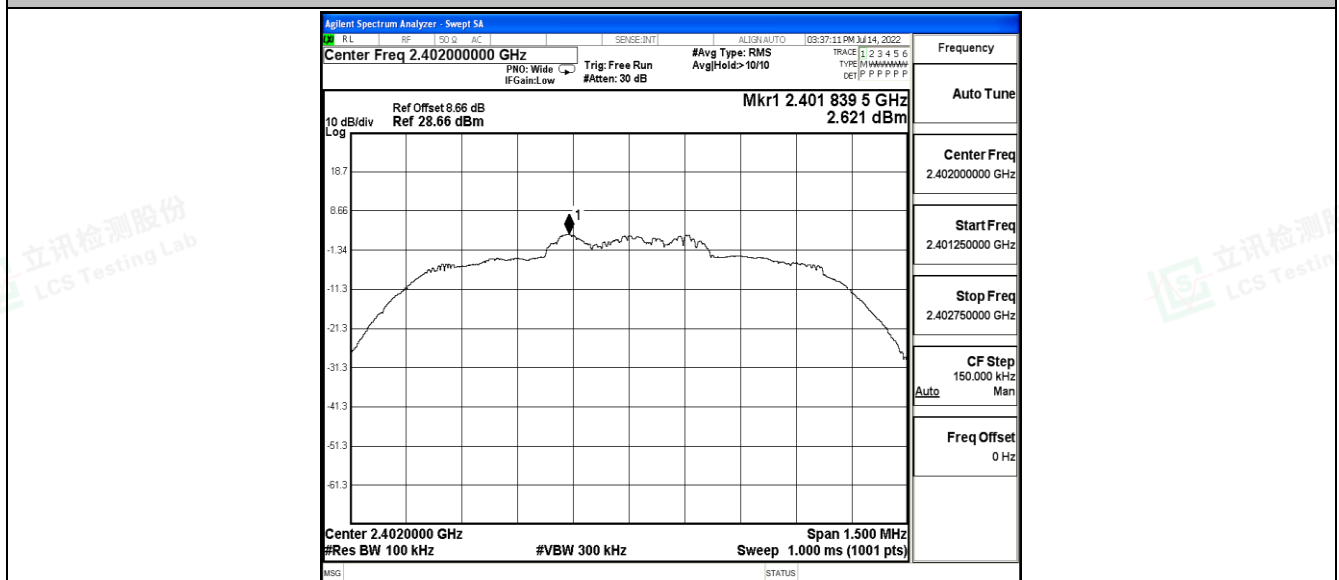
DH5_Ant_2480_0~Reference





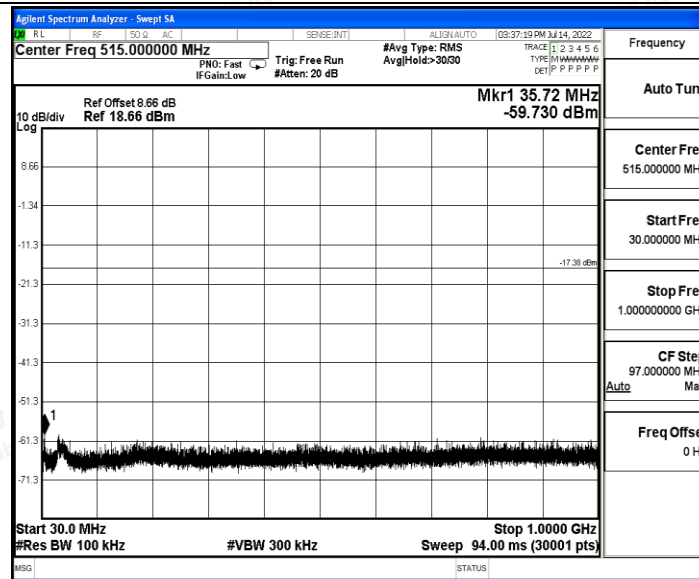


2DH5_Ant_2402_0-Reference

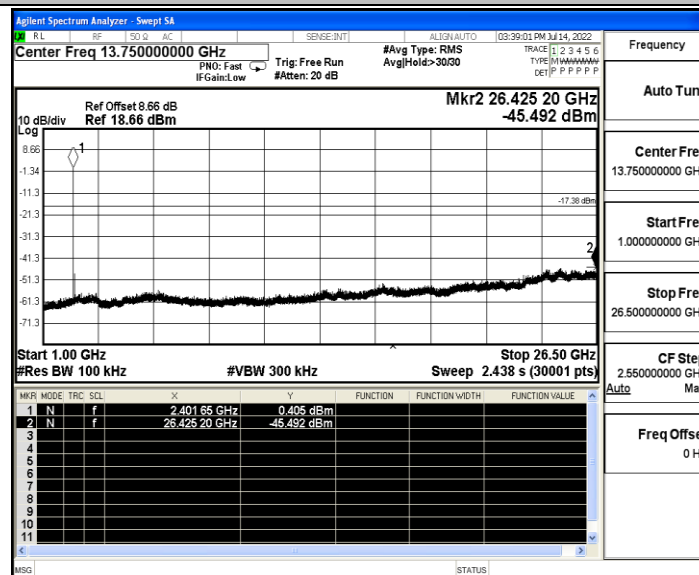


2DH5_Ant_2402_30~1000



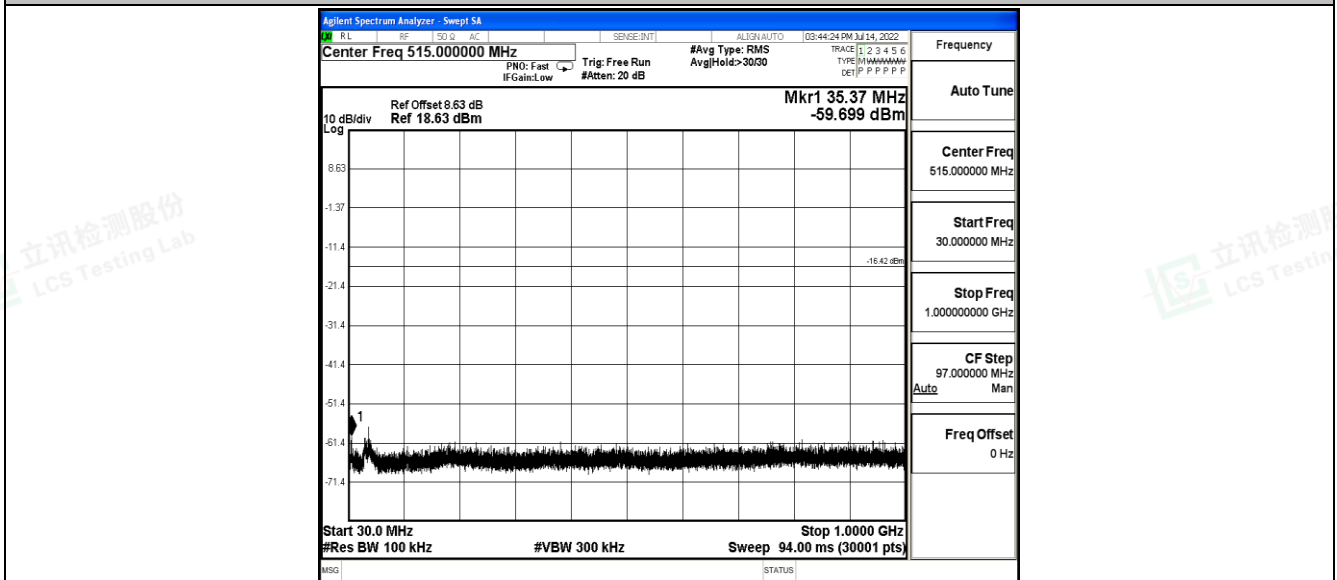
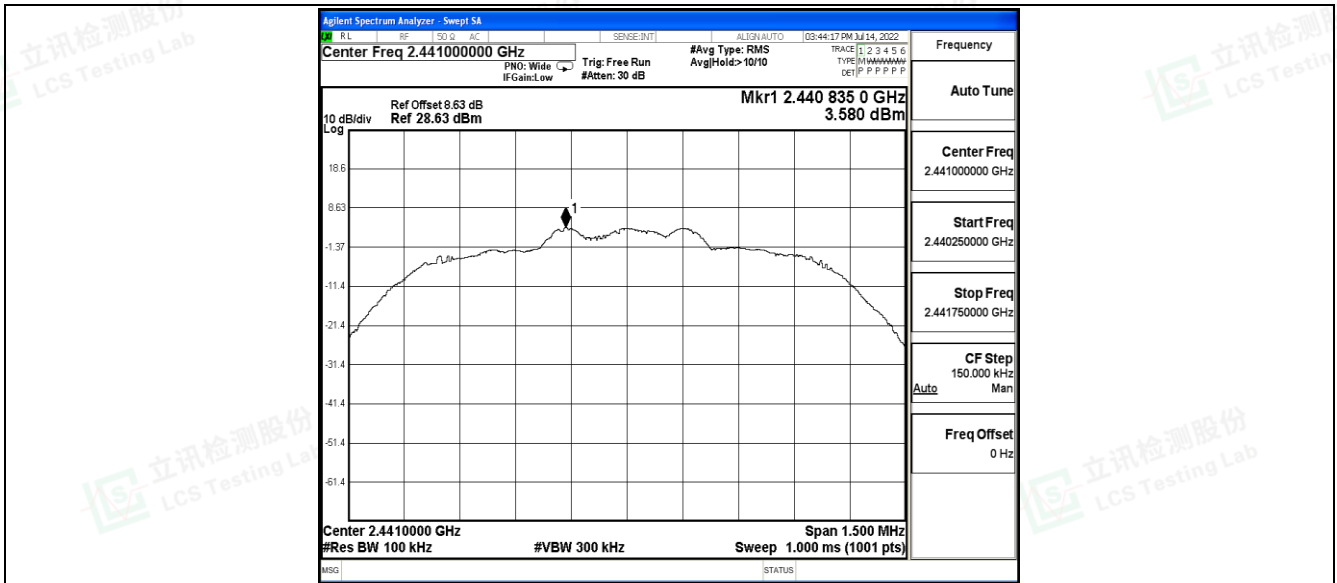


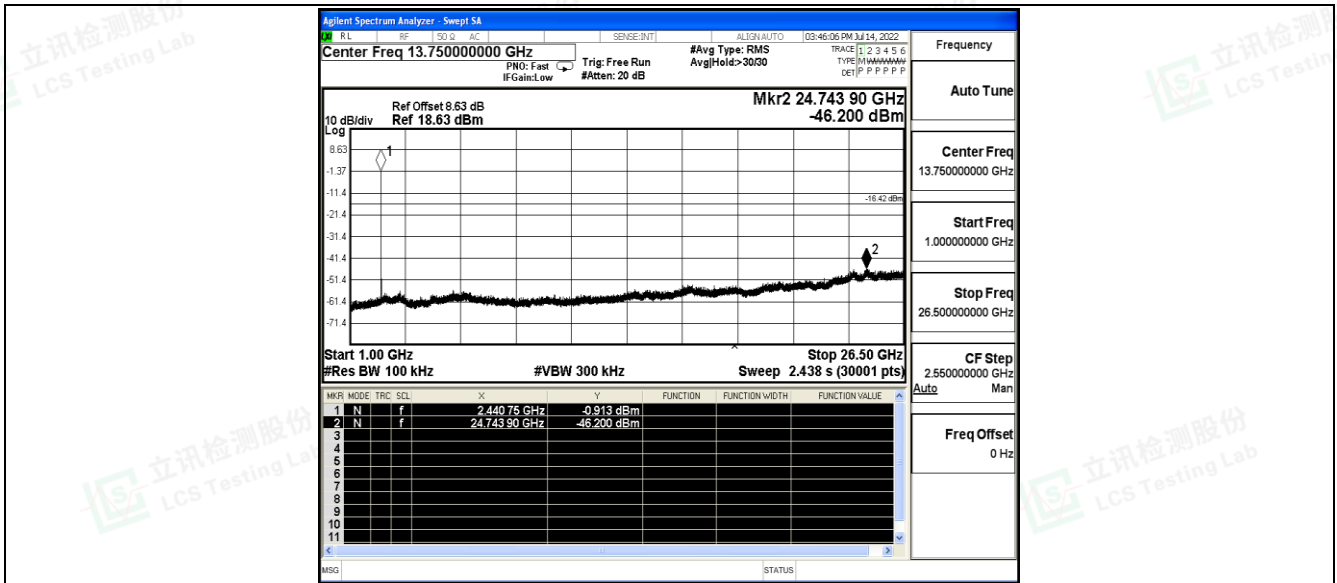
2DH5_Ant_2402_1000~26500



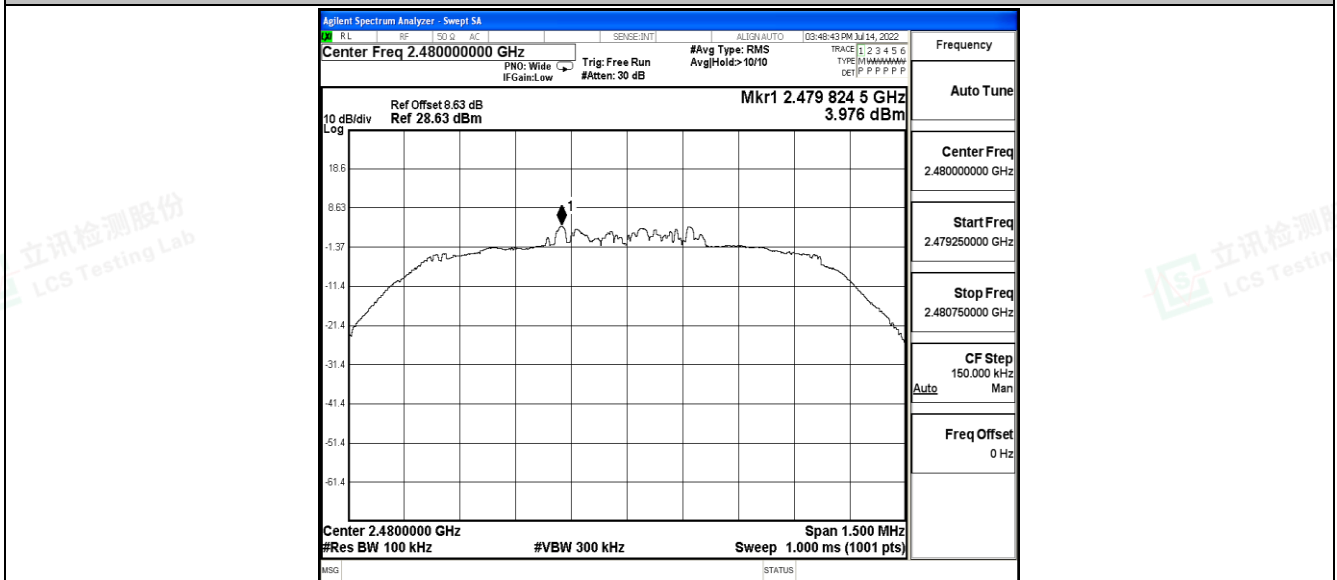
2DH5_Ant_2441_0~Reference





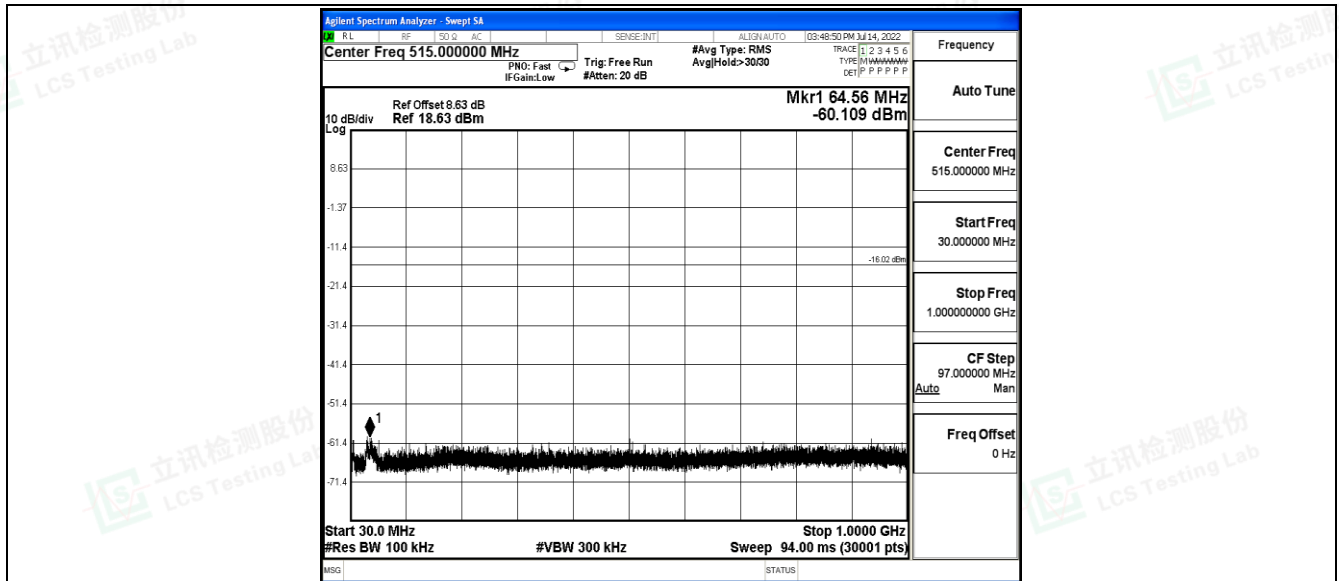


2DH5_Ant_2480_0-Reference

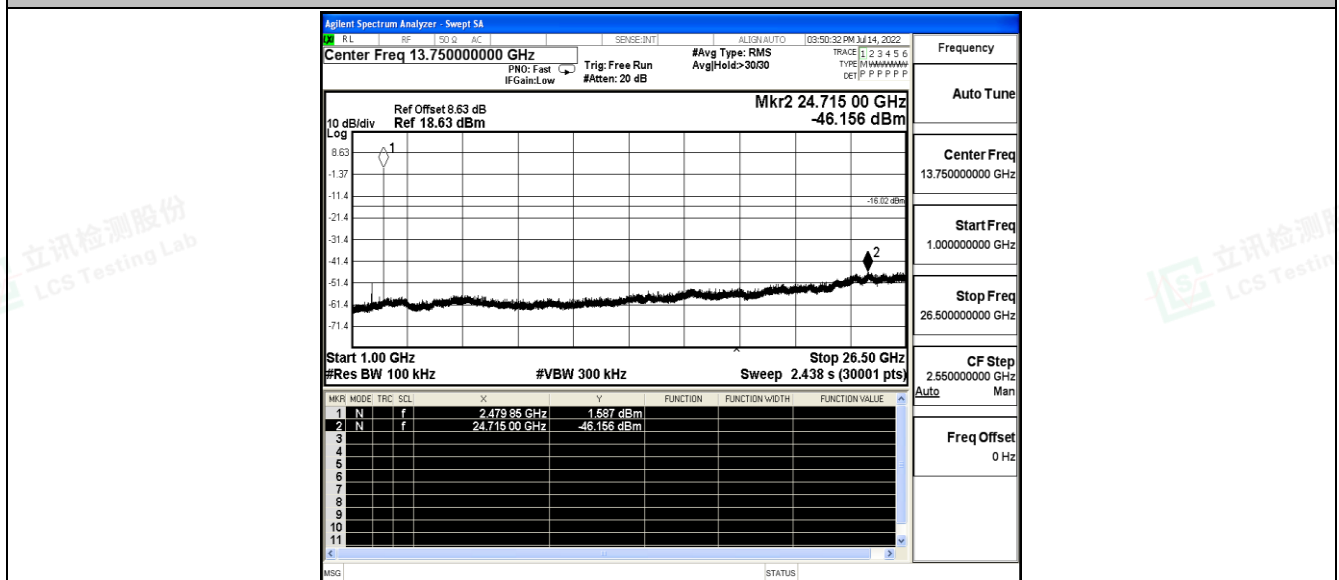


2DH5_Ant_2480_30~1000



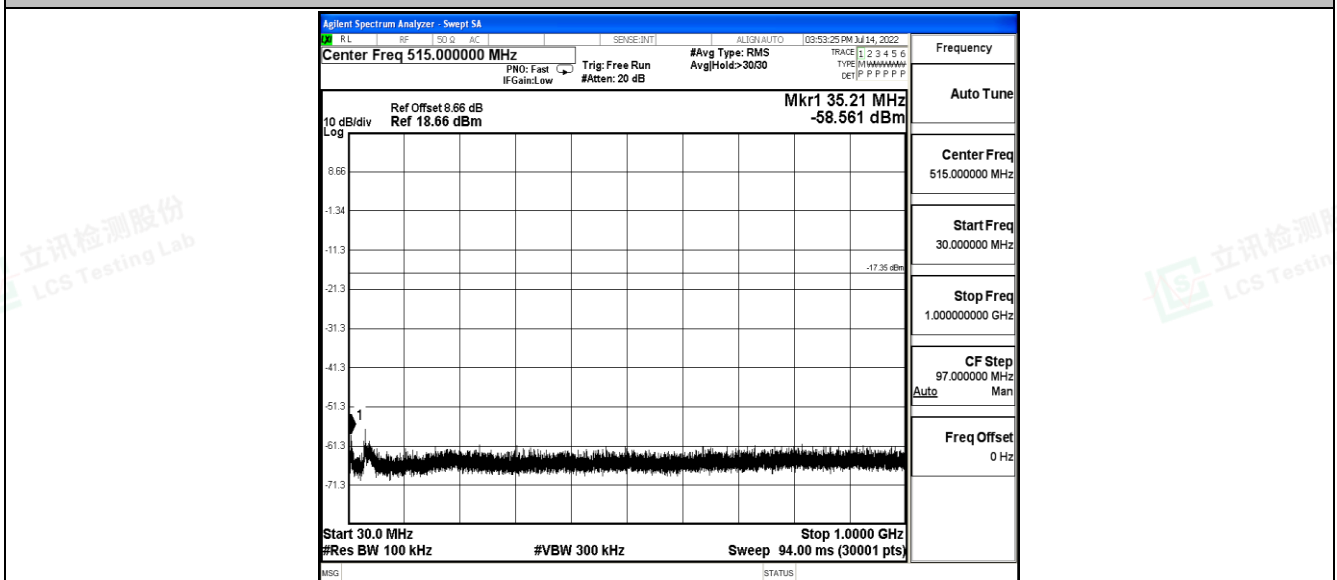
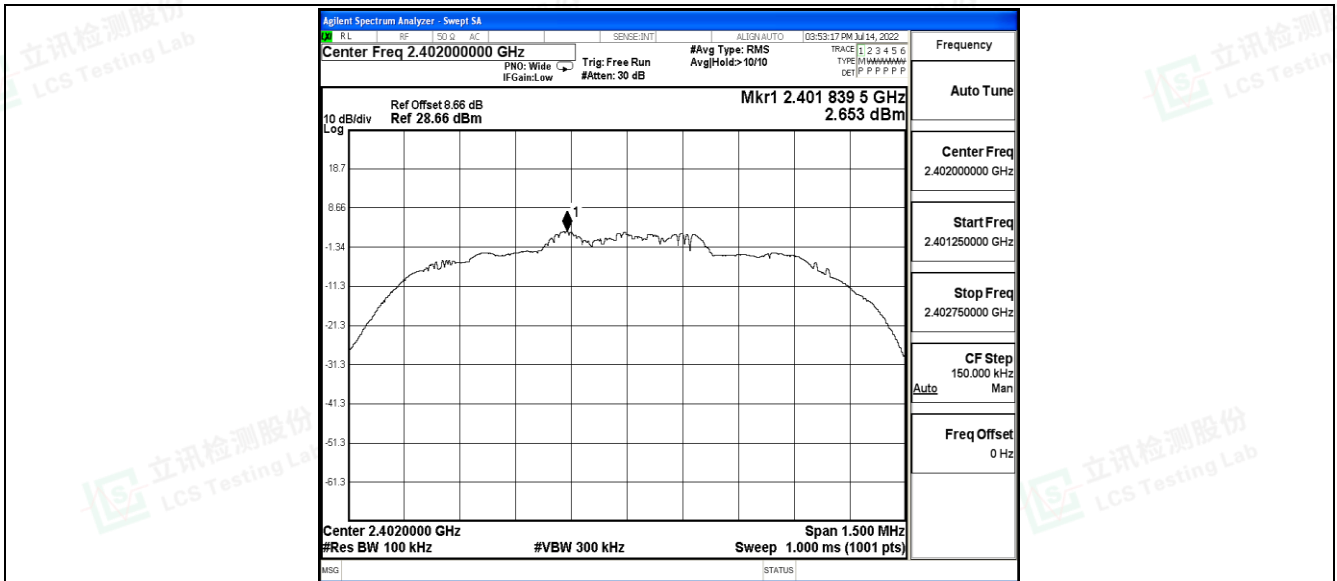


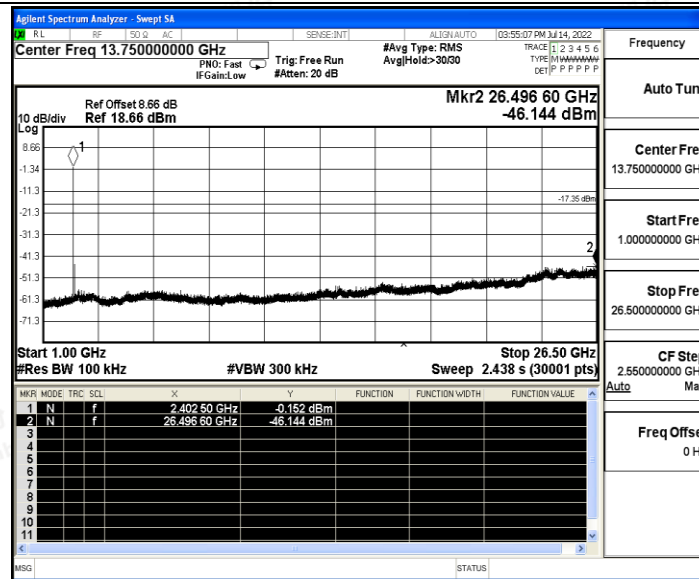
2DH5_Ant_2480_1000~26500



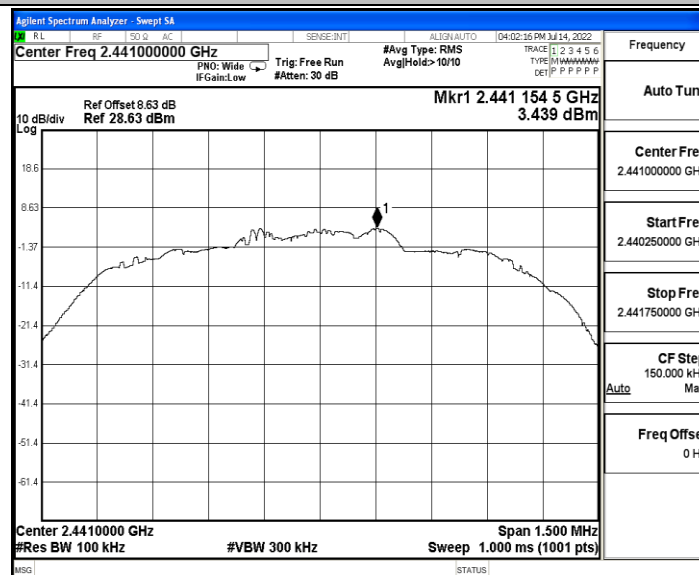
3DH5_Ant_2402_0-Reference





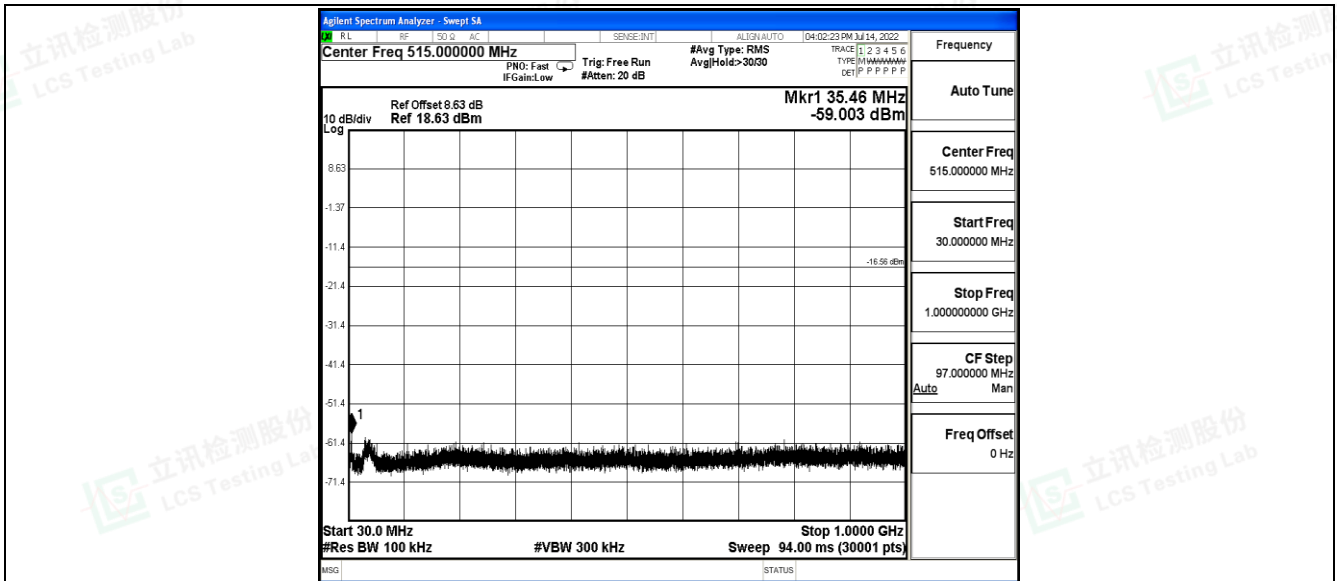


3DH5_Ant_2441_0-Reference

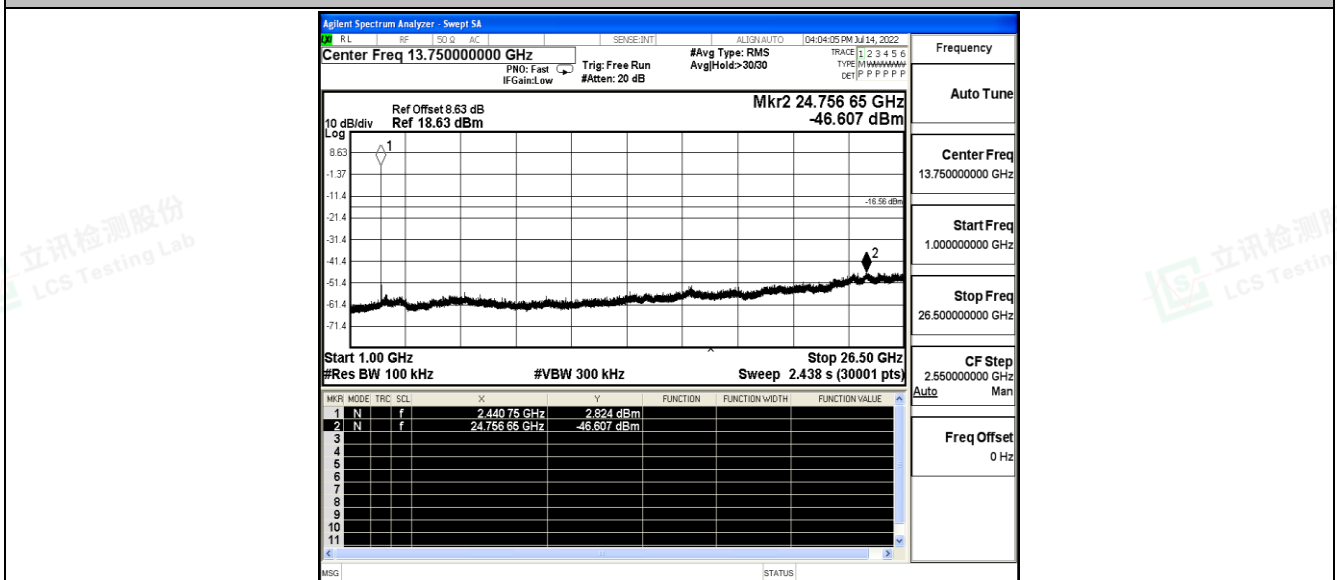


3DH5_Ant_2441_30~1000



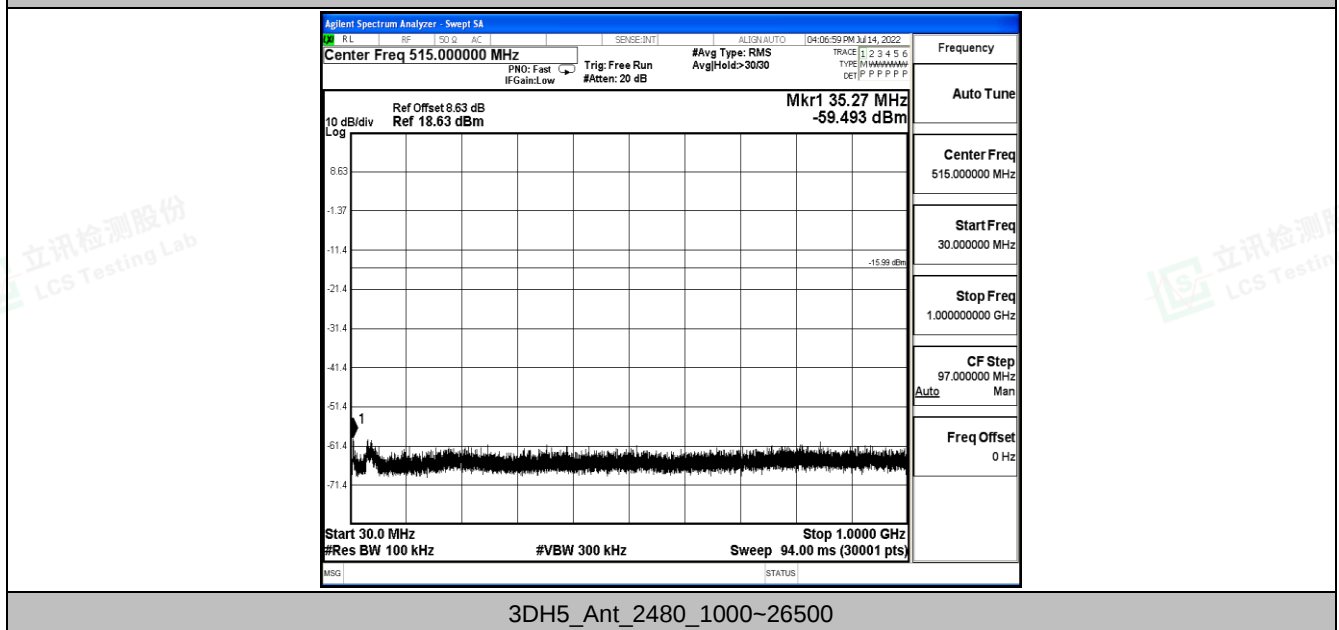
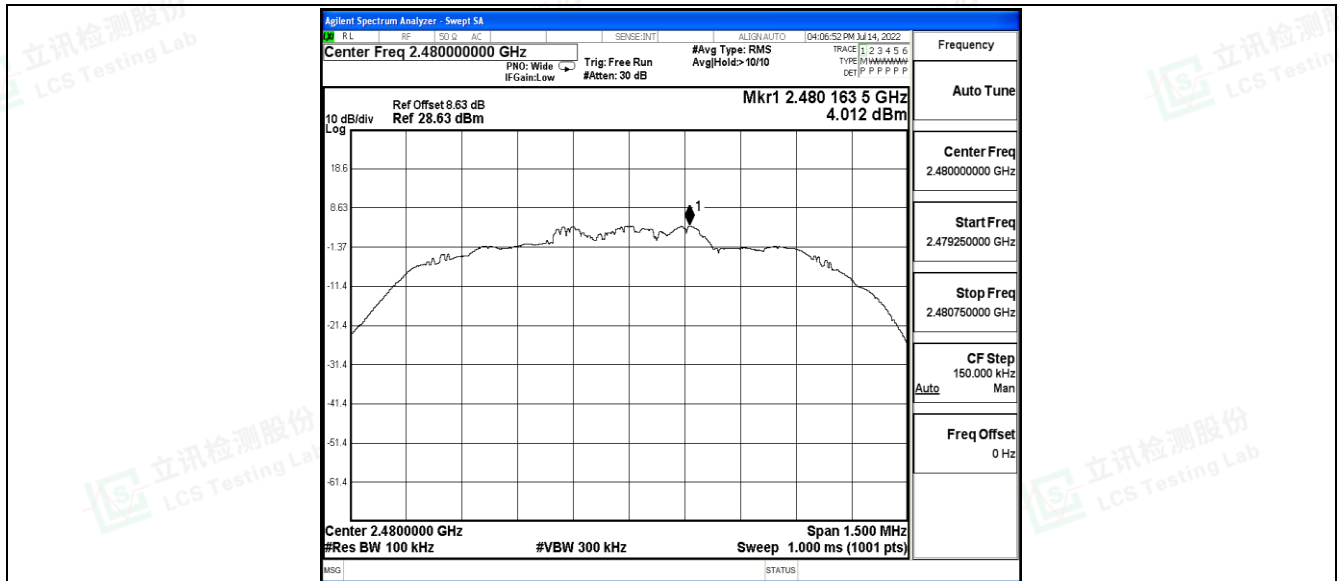


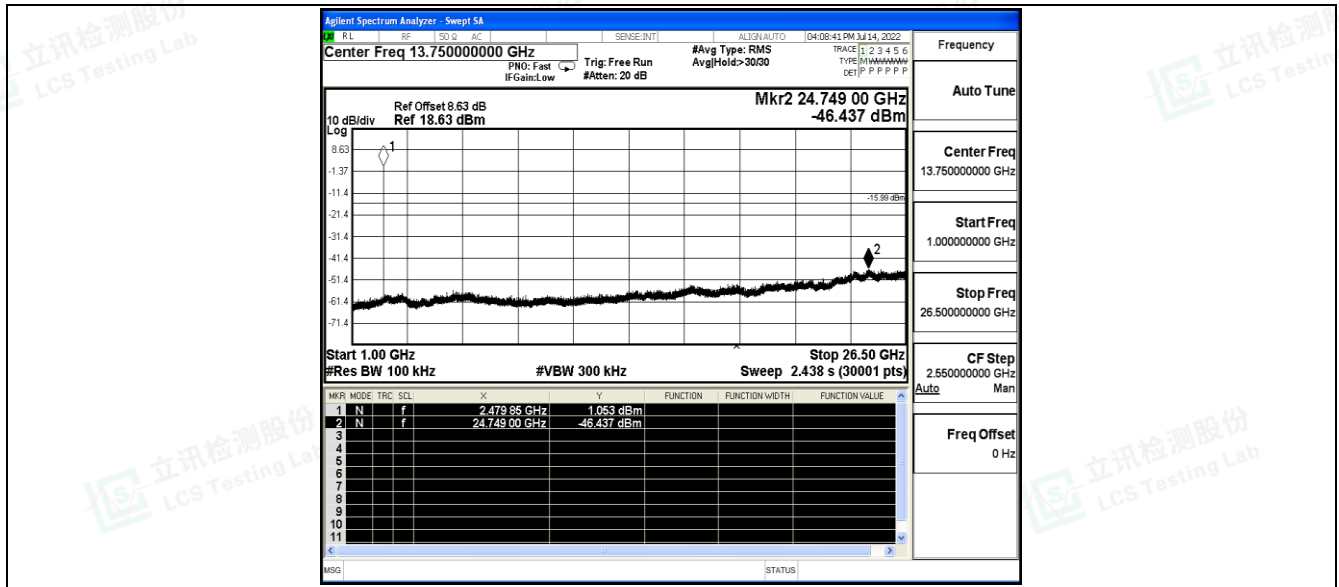
3DH5_Ant_2441_1000~26500



3DH5_Ant_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	Ant	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2389.460	-57.34	≤-41.20	37.86	≤54	PASS
				AV	2390.000	-57.45	≤-41.20	37.75	≤54	PASS
				Peak	2310.000	-48.52	≤-21.20	46.68	≤74	PASS
				Peak	2387.465	-46.42	≤-21.20	48.78	≤74	PASS
				Peak	2390.000	-47.87	≤-21.20	47.33	≤74	PASS
		High	2480	AV	2483.500	-53.38	≤-41.20	41.82	≤54	PASS
				AV	2483.520	-53.38	≤-41.20	41.82	≤54	PASS
				AV	2500.000	-56.96	≤-41.20	38.24	≤54	PASS
				Peak	2483.500	-46.22	≤-21.20	48.98	≤74	PASS
				Peak	2488.960	-45.56	≤-21.20	49.64	≤74	PASS
				Peak	2500.000	-47.8	≤-21.20	47.40	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2388.200	-57.42	≤-41.20	37.78	≤54	PASS
				AV	2390.000	-57.42	≤-41.20	37.78	≤54	PASS
				Peak	2310.000	-48.77	≤-21.20	46.43	≤74	PASS
				Peak	2376.755	-46.06	≤-21.20	49.14	≤74	PASS
				Peak	2390.000	-47.09	≤-21.20	48.11	≤74	PASS
		High	2480	AV	2483.500	-52.18	≤-41.20	43.02	≤54	PASS
				AV	2483.520	-52.18	≤-41.20	43.02	≤54	PASS
				AV	2500.000	-56.93	≤-41.20	38.27	≤54	PASS
				Peak	2483.500	-45.41	≤-21.20	49.79	≤74	PASS
				Peak	2483.760	-44.63	≤-21.20	50.57	≤74	PASS
				Peak	2500.000	-46.98	≤-21.20	48.22	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-58.19	≤-41.20	37.01	≤54	PASS
				AV	2387.780	-57.4	≤-41.20	37.80	≤54	PASS
				AV	2390.000	-57.49	≤-41.20	37.71	≤54	PASS
				Peak	2310.000	-48.61	≤-21.20	46.59	≤74	PASS
				Peak	2366.885	-46.3	≤-21.20	48.90	≤74	PASS
				Peak	2390.000	-48.23	≤-21.20	46.97	≤74	PASS
		High	2480	AV	2483.500	-52.11	≤-41.20	43.09	≤54	PASS
				AV	2483.520	-52.1	≤-41.20	43.10	≤54	PASS
				AV	2500.000	-57.21	≤-41.20	37.99	≤54	PASS
				Peak	2483.500	-44.39	≤-21.20	50.81	≤74	PASS
				Peak	2483.520	-44.39	≤-21.20	50.81	≤74	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity



				Peak	2500.000	-46.88	≤-21.20	48.32	≤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.

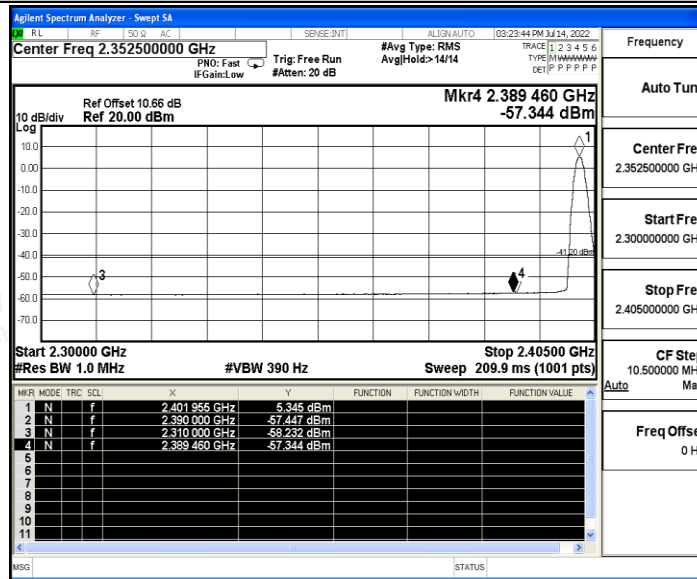


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

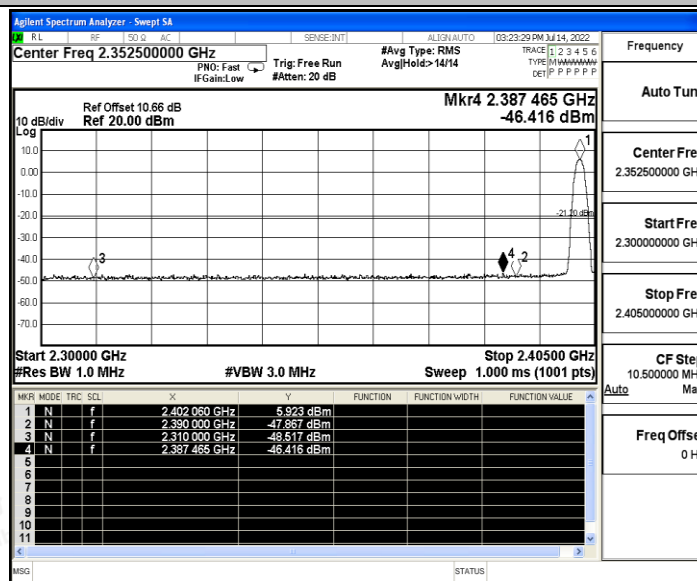


Test Graphs

DH5_Ant_Low_2402_AV

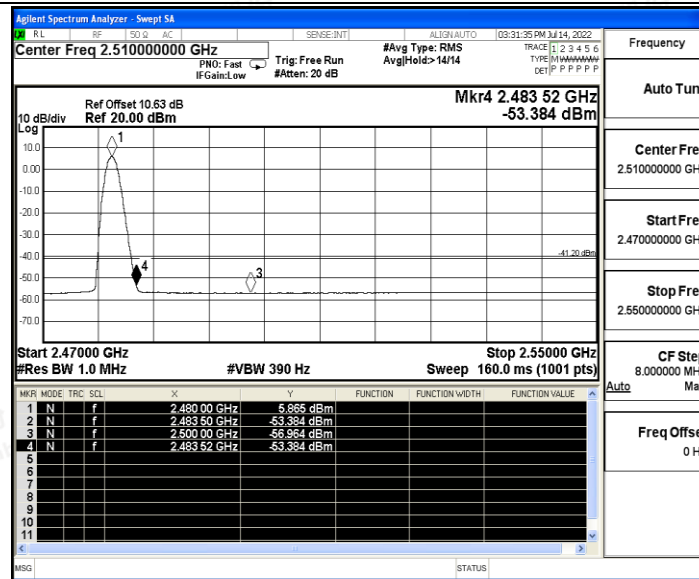


DH5_Ant_Low_2402_Peak

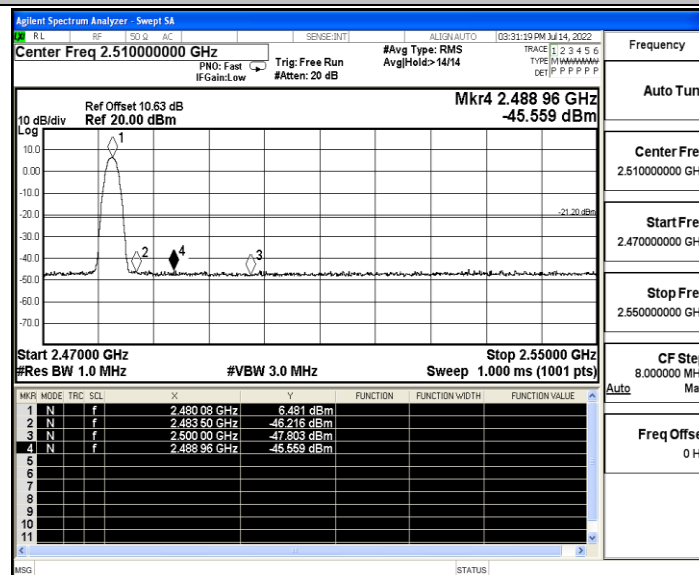


DH5_Ant_High_2480_AV



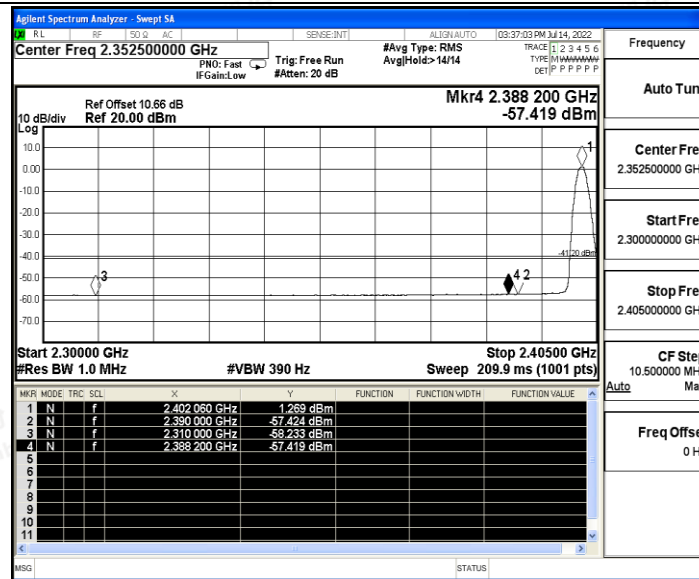


DH5_Ant_High_2480_Peak

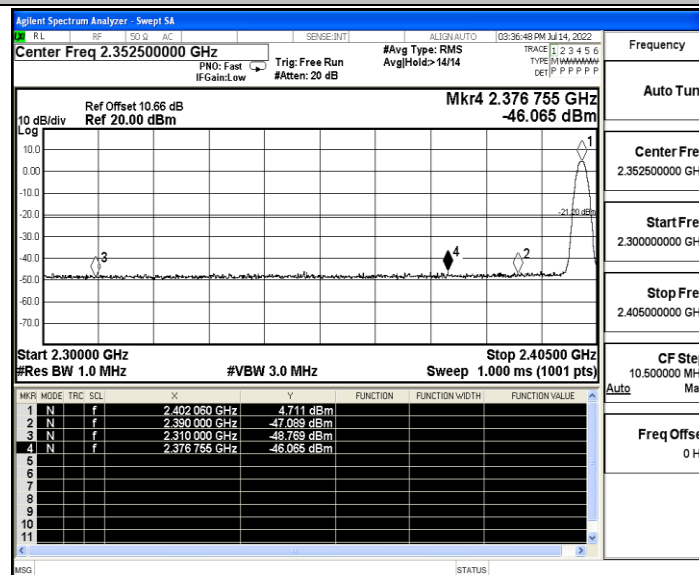


2DH5_Ant_Low_2402_AV



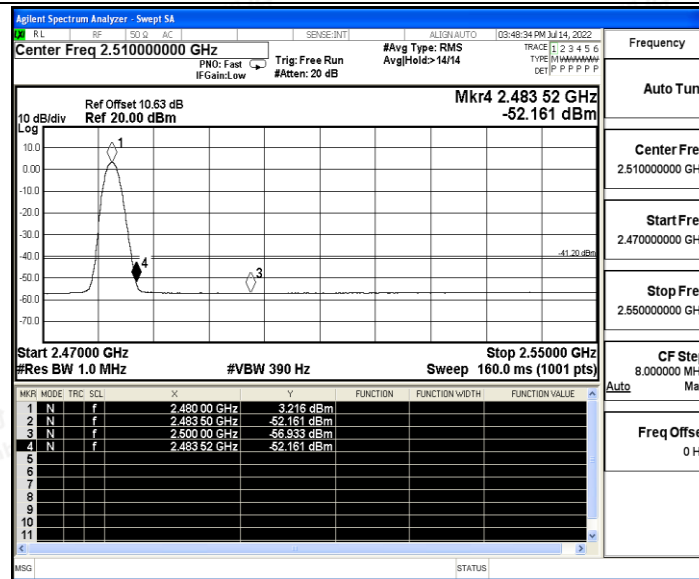


2DH5_Ant_Low_2402_Peak

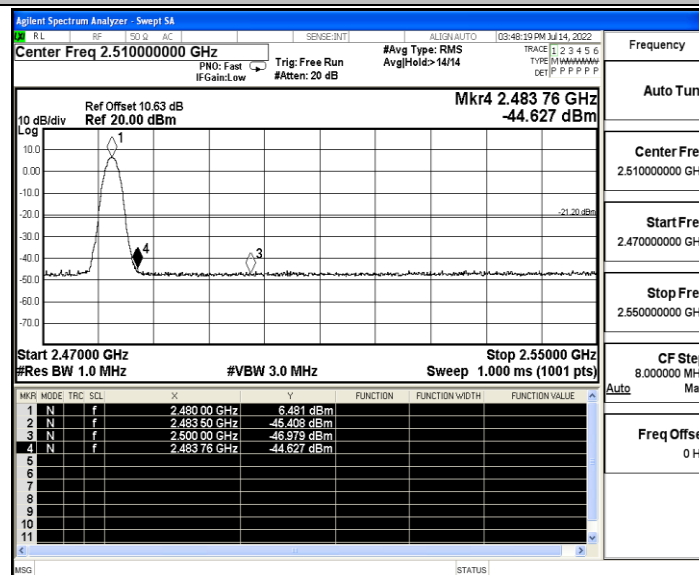


2DH5_Ant_High_2480_AV



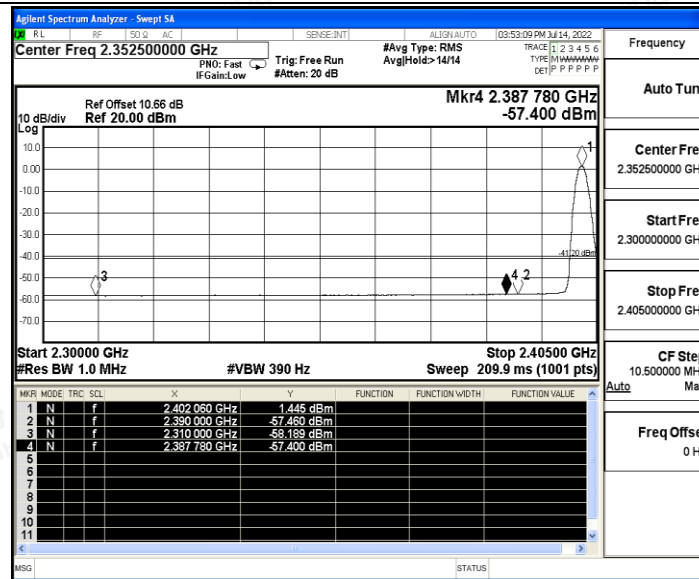


2DH5_Ant_High_2480_Peak

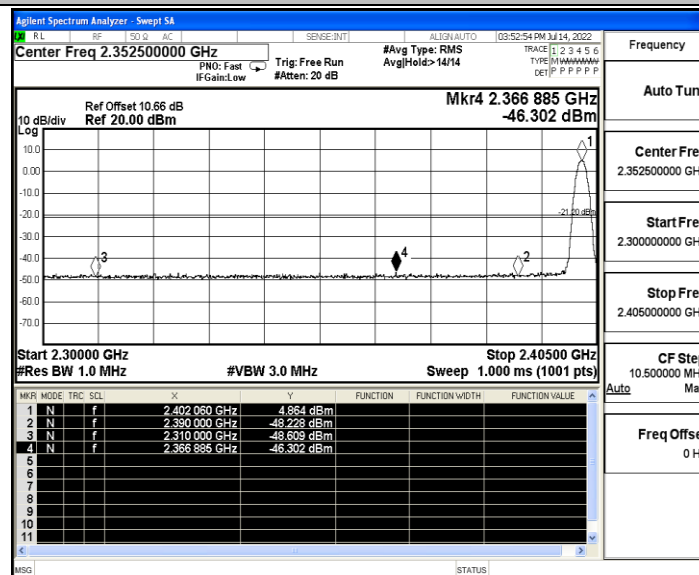


3DH5_Ant_Low_2402_AV



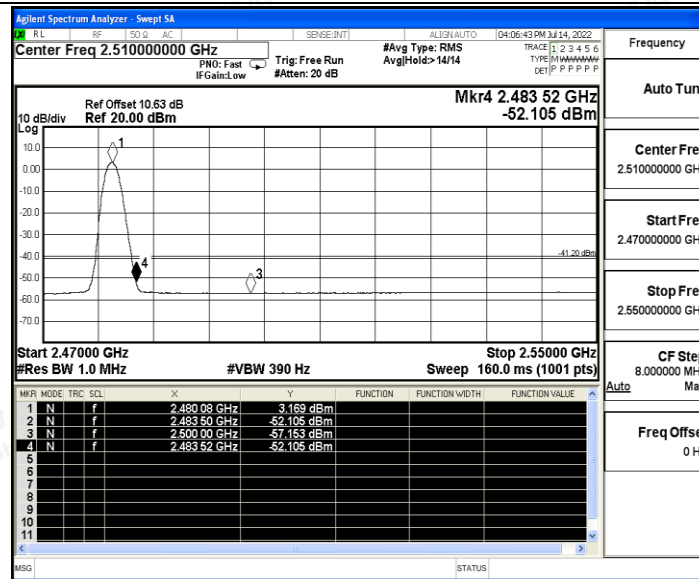


3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV





3DH5_Ant_High_2480_Peak

