



## Appendix B

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 10.1inch Cloud Photo Frame

Test Model: US65101A2

#### Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>LiHuan</i> Li Huan





### B.1 DTS Bandwidth

#### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	35.760	2434.160	2469.920	0.5	PASS

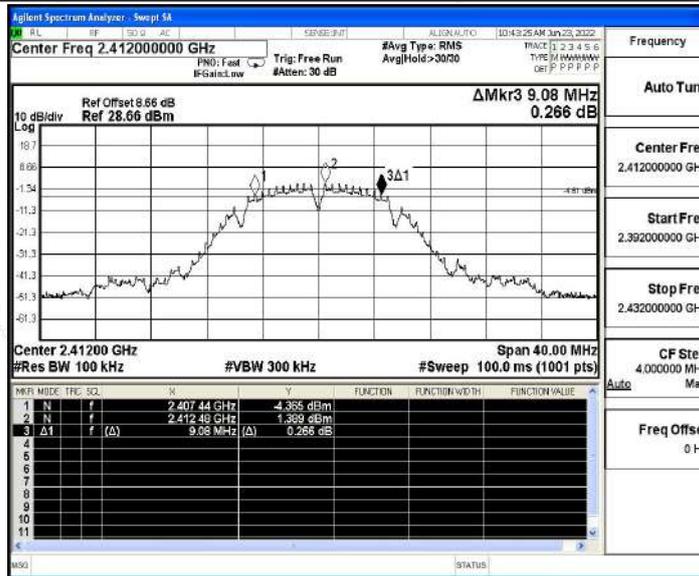


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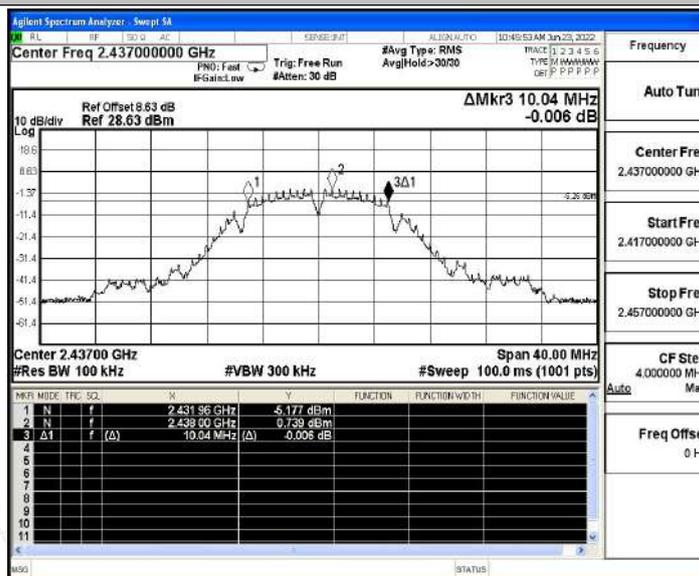


### Test Graphs

11B\_Ant1\_2412

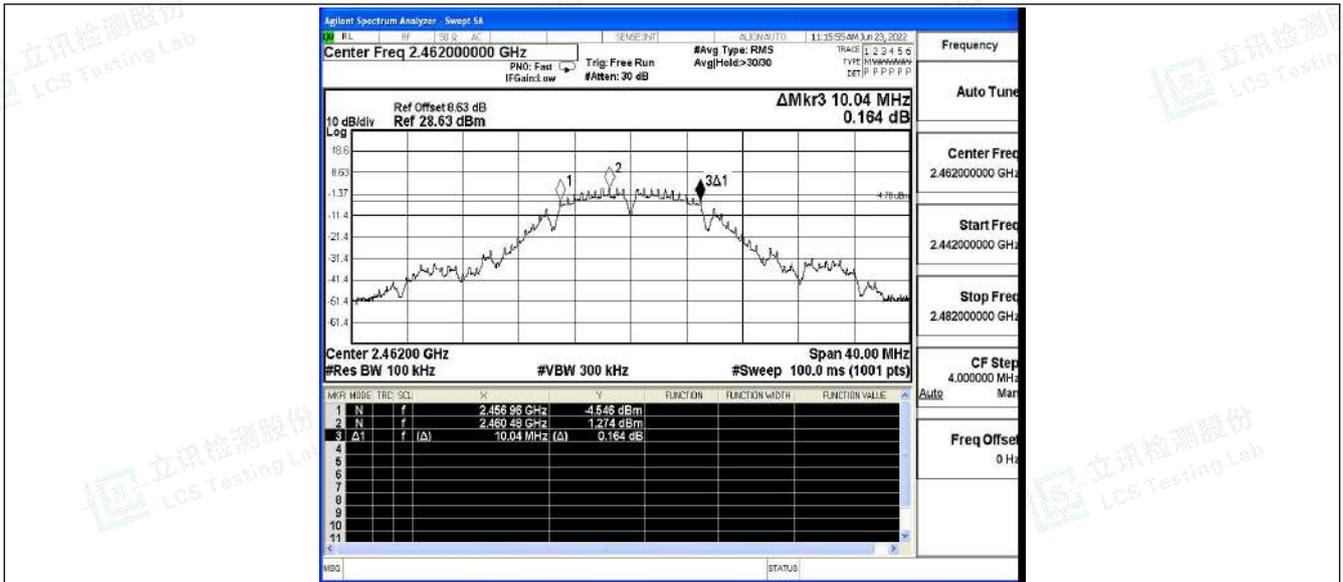


11B\_Ant1\_2437

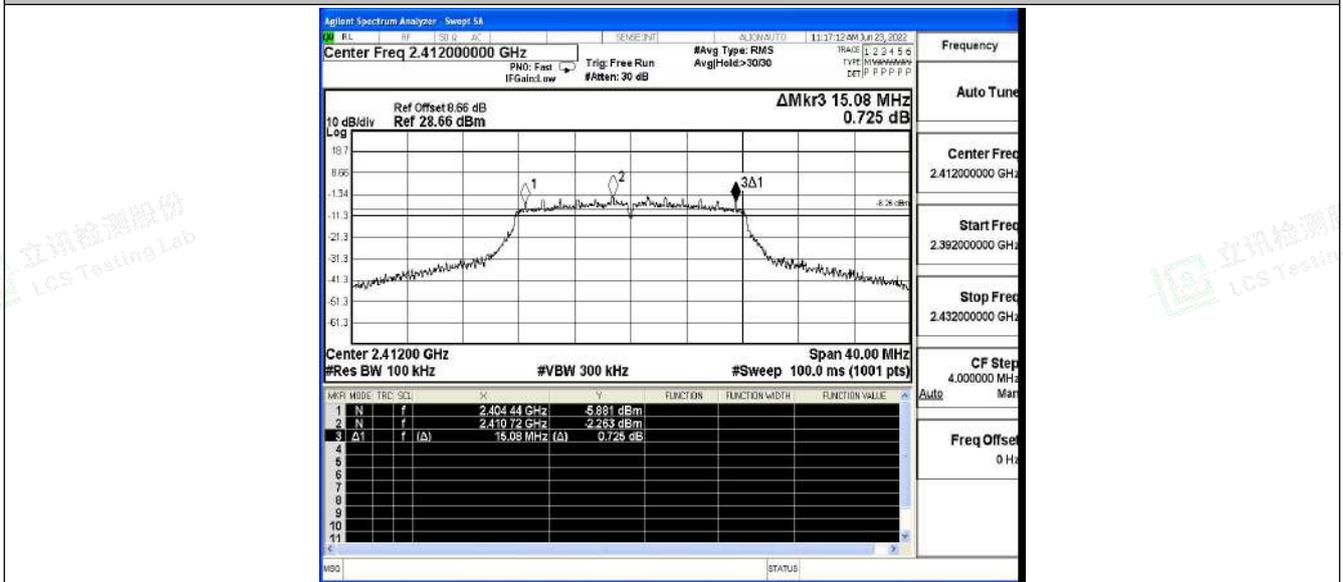


11B\_Ant1\_2462



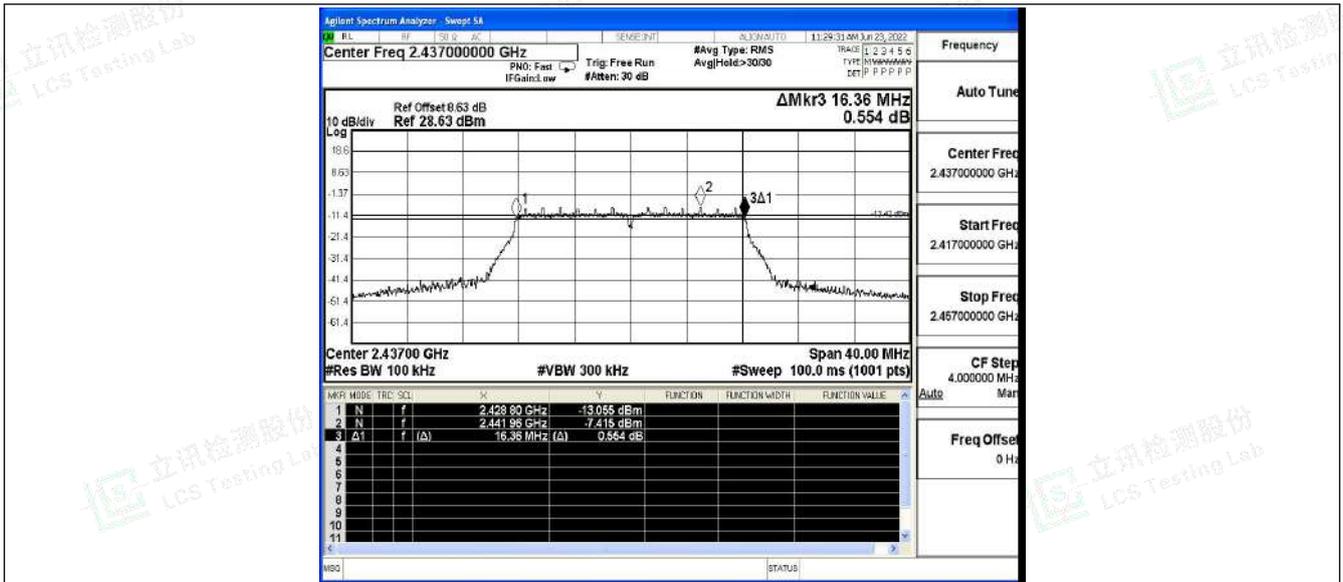


11G\_Ant1\_2412

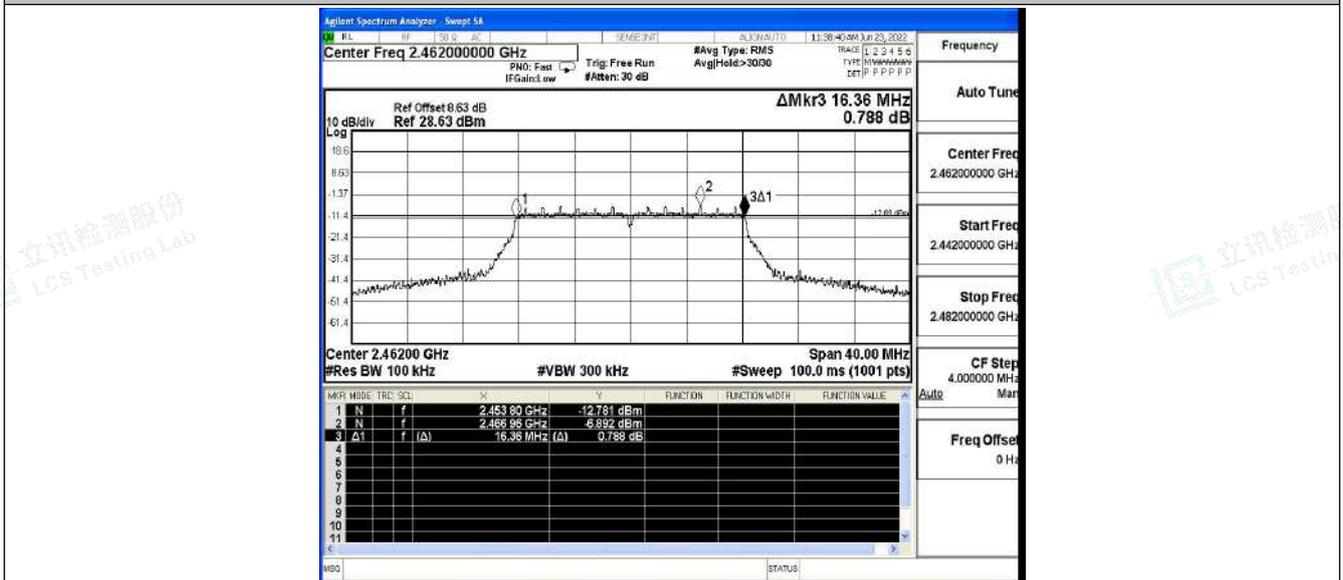


11G\_Ant1\_2437



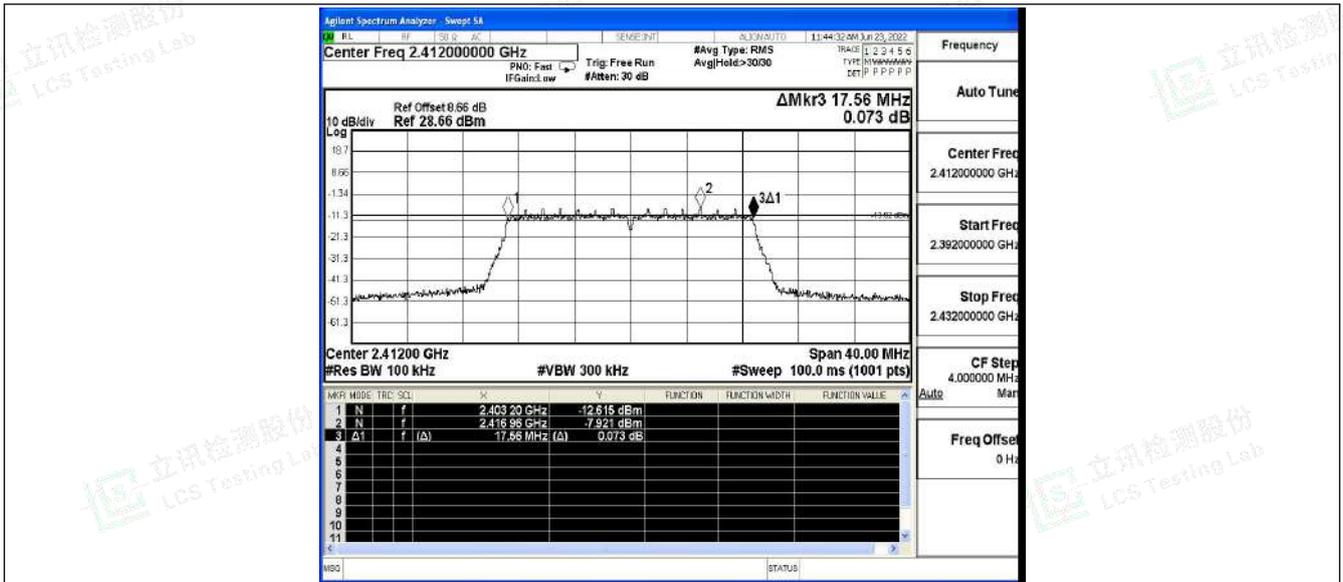


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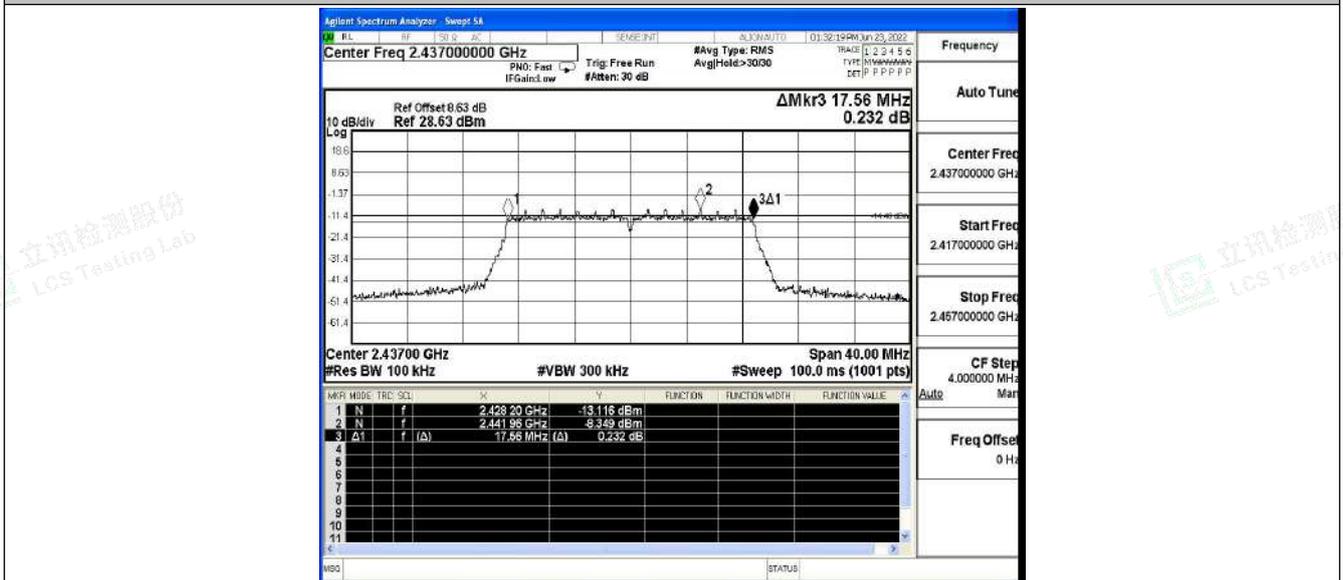


11N20SISO\_Ant1\_2412



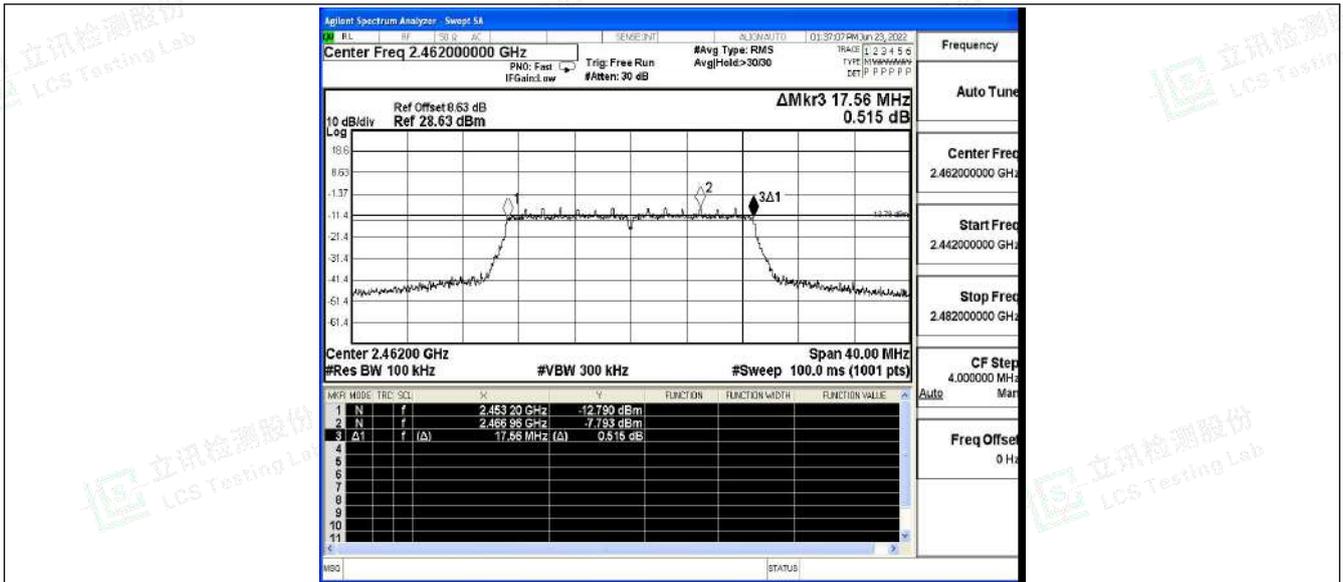


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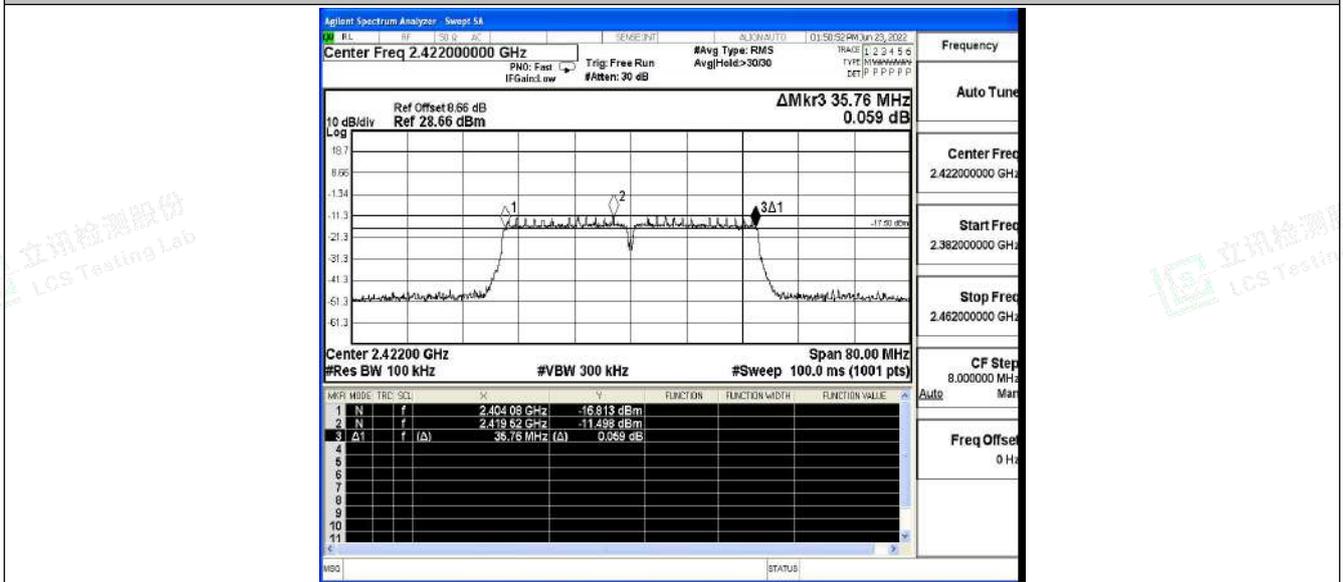


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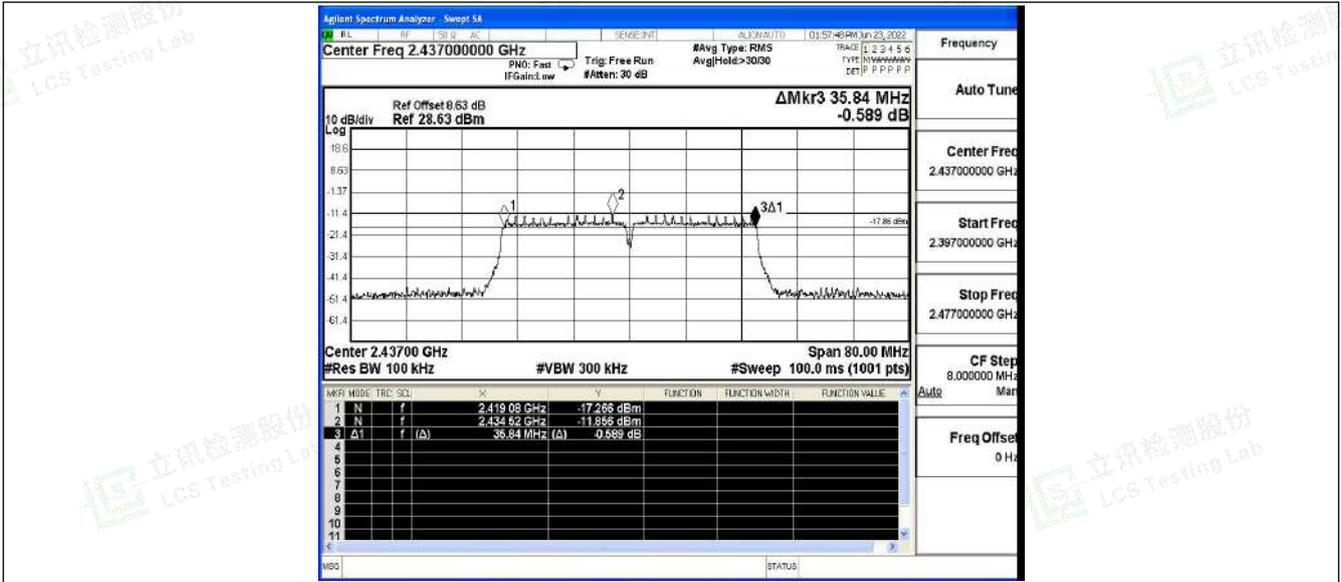


11N40SISO\_Ant1\_2422

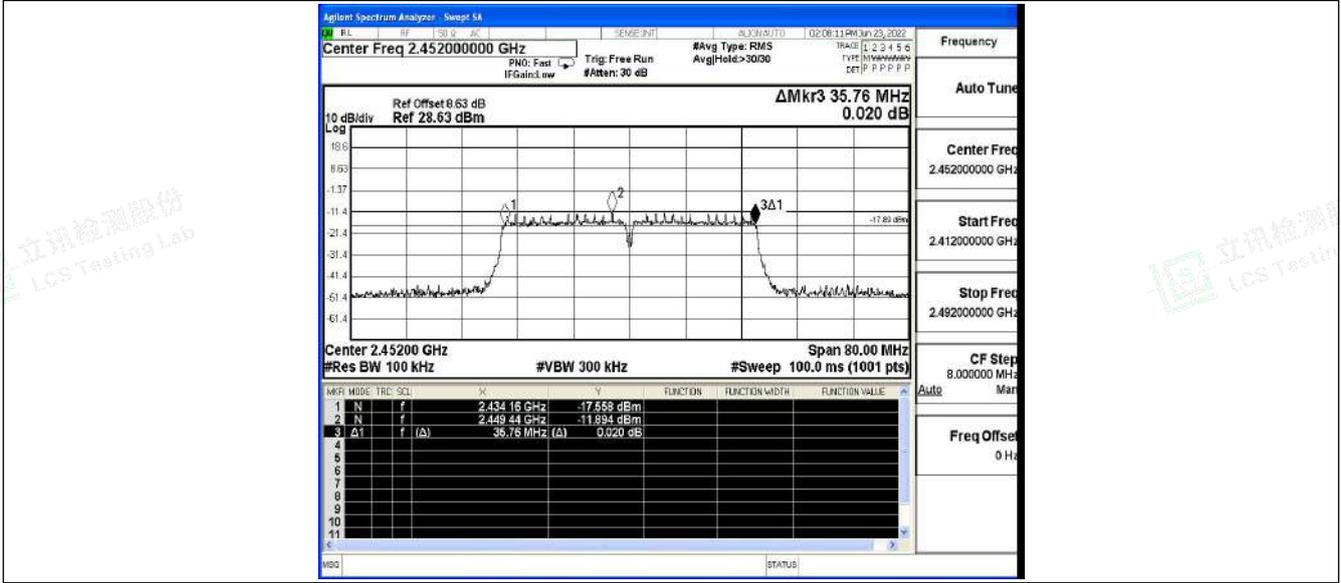


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452





## B.2 Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.15	≤30.00	PASS
		2437	12.51	≤30.00	PASS
		2462	12.98	≤30.00	PASS
11G	Ant1	2412	12.53	≤30.00	PASS
		2437	12.11	≤30.00	PASS
		2462	12.53	≤30.00	PASS
11N20SISO	Ant1	2412	11.61	≤30.00	PASS
		2437	11.16	≤30.00	PASS
		2462	11.61	≤30.00	PASS
11N40SISO	Ant1	2422	10.63	≤30.00	PASS
		2437	10.33	≤30.00	PASS
		2452	10.11	≤30.00	PASS





### B.3 Maximum power spectral density

#### Test Result

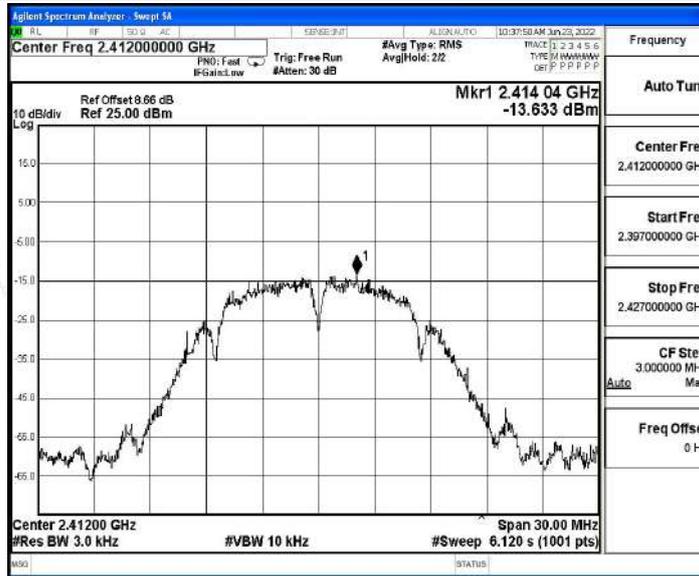
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.63	≤8.00	PASS
		2437	-13.8	≤8.00	PASS
		2462	-13.77	≤8.00	PASS
11G	Ant1	2412	-20.21	≤8.00	PASS
		2437	-21.54	≤8.00	PASS
		2462	-21.28	≤8.00	PASS
11N20SISO	Ant1	2412	-21.88	≤8.00	PASS
		2437	-22.43	≤8.00	PASS
		2462	-22.13	≤8.00	PASS
11N40SISO	Ant1	2422	-25.6	≤8.00	PASS
		2437	-25.99	≤8.00	PASS
		2452	-26.01	≤8.00	PASS



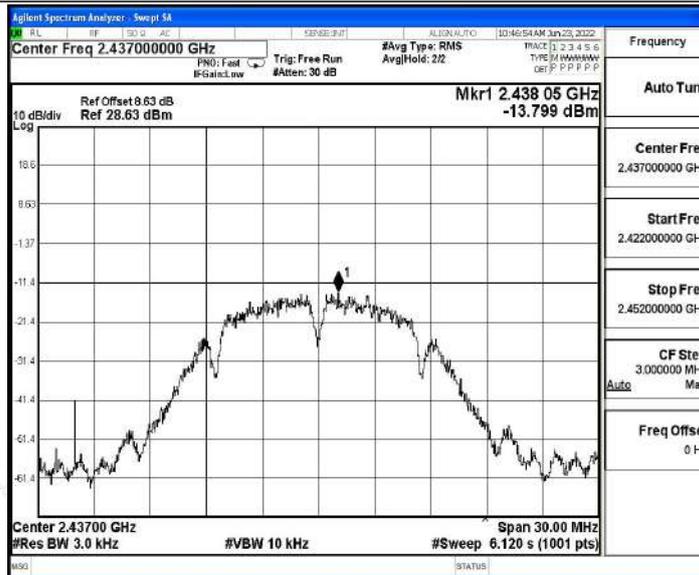


### Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437

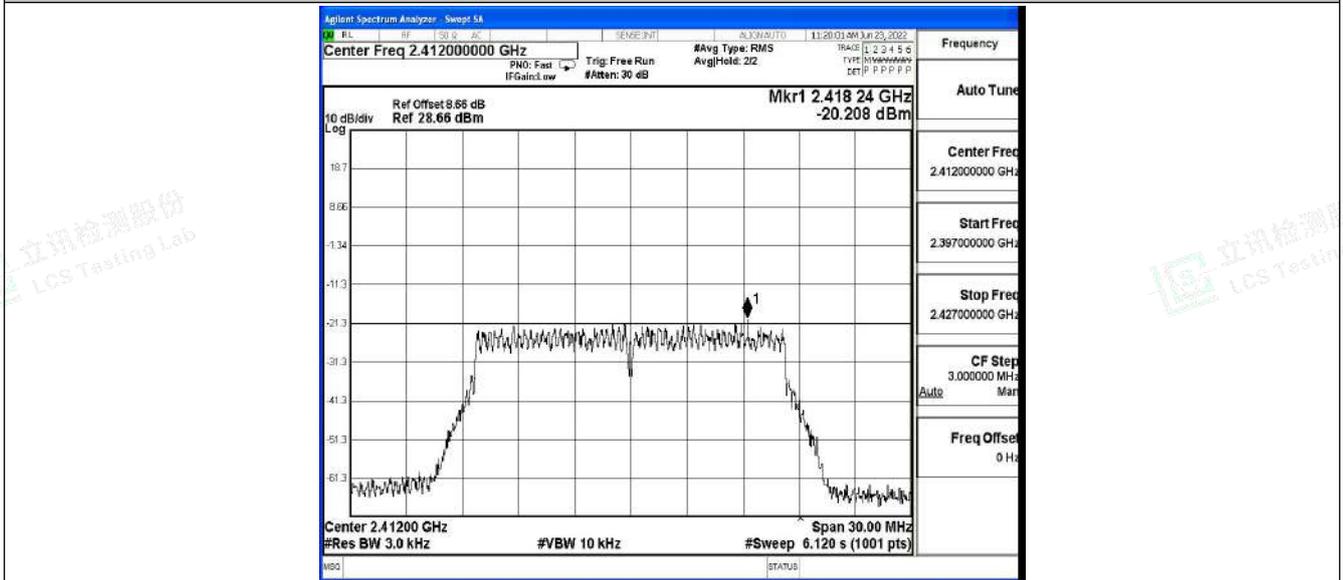


11B\_Ant1\_2462



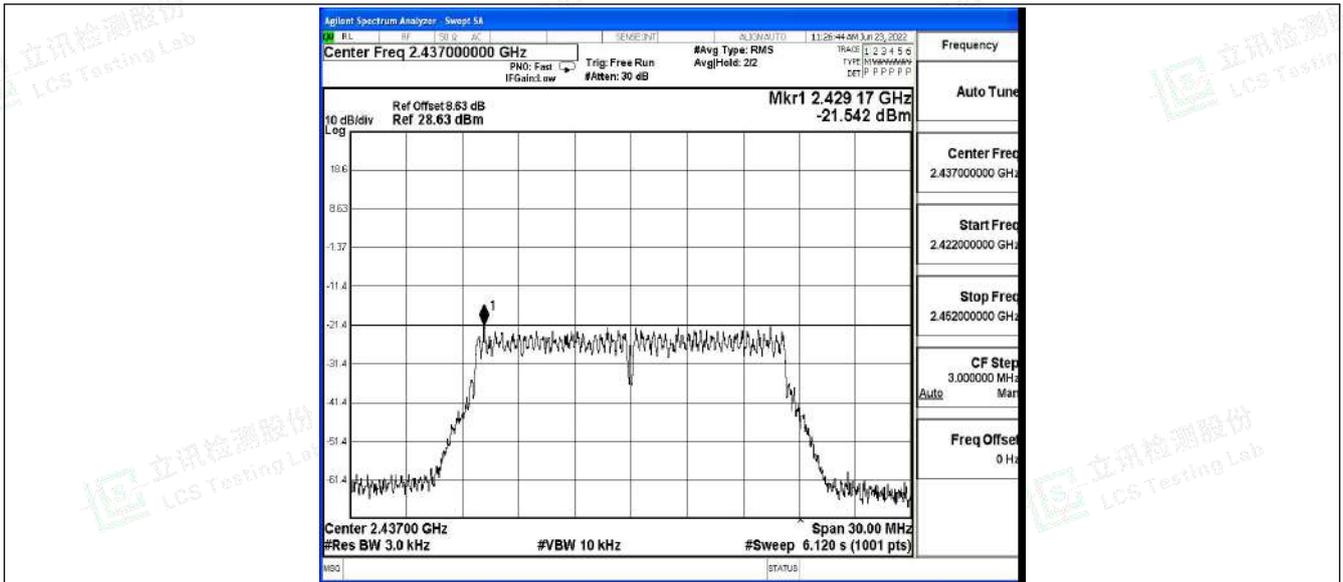


11G\_Ant1\_2412

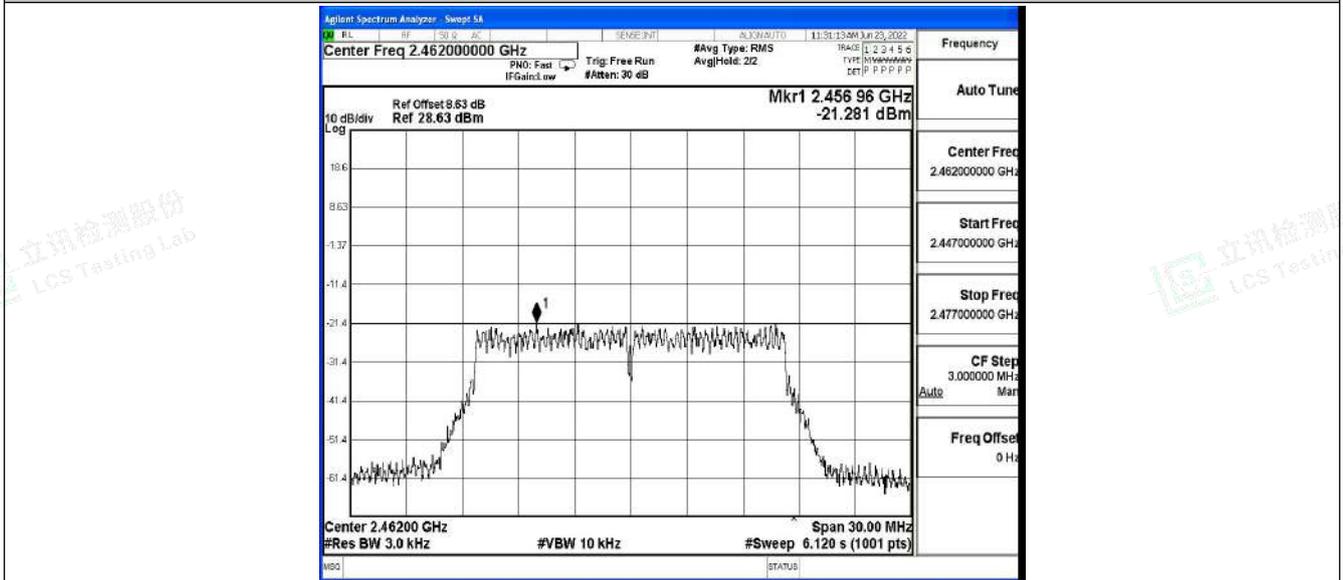


11G\_Ant1\_2437



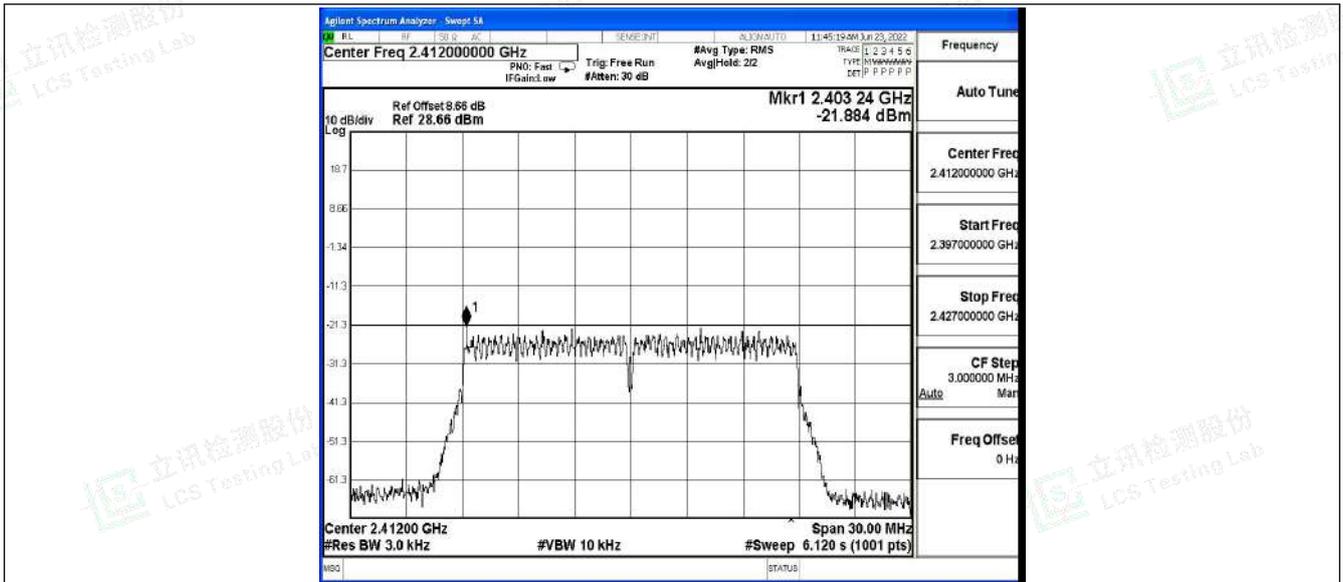


11G\_Ant1\_2462

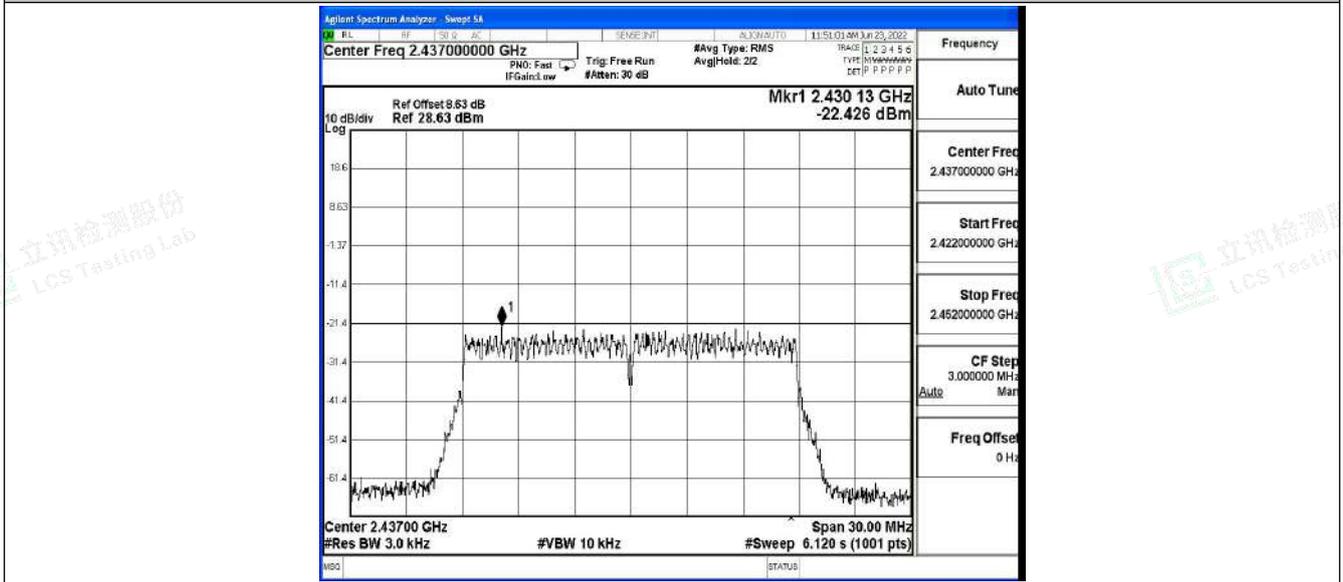


11N20SISO\_Ant1\_2412



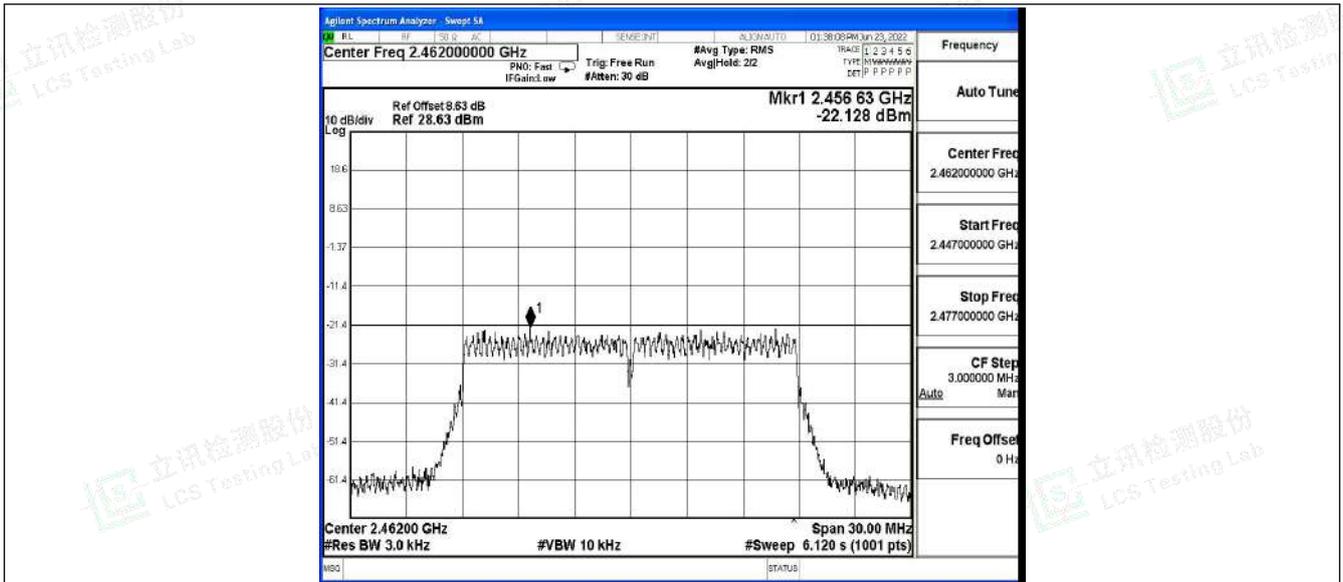


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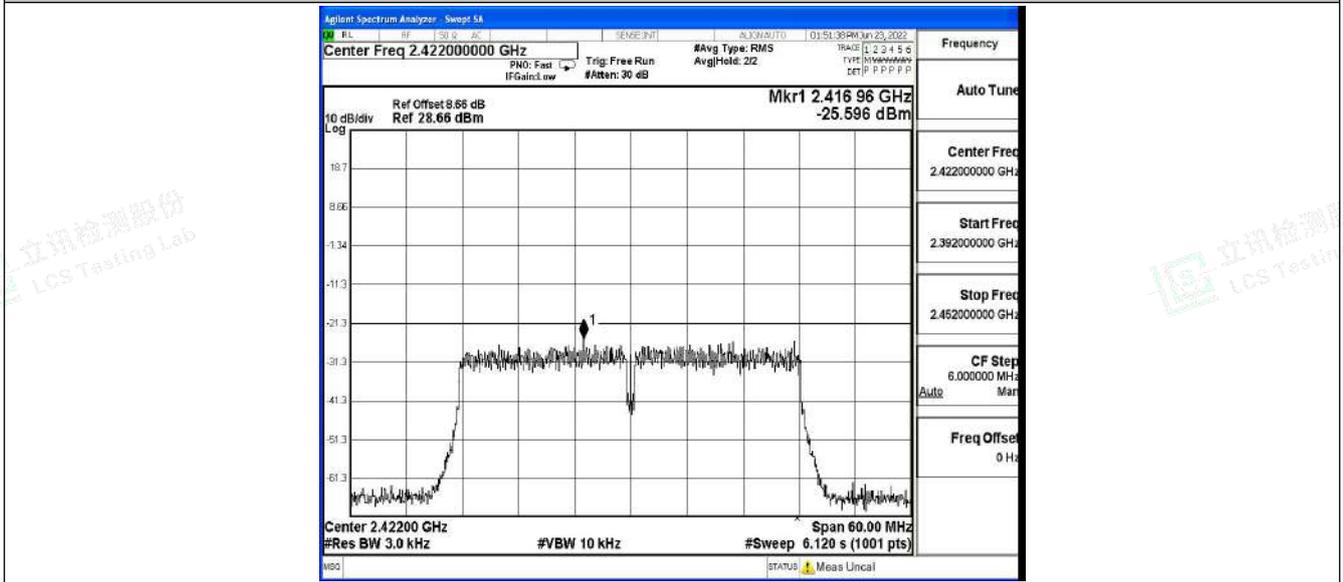


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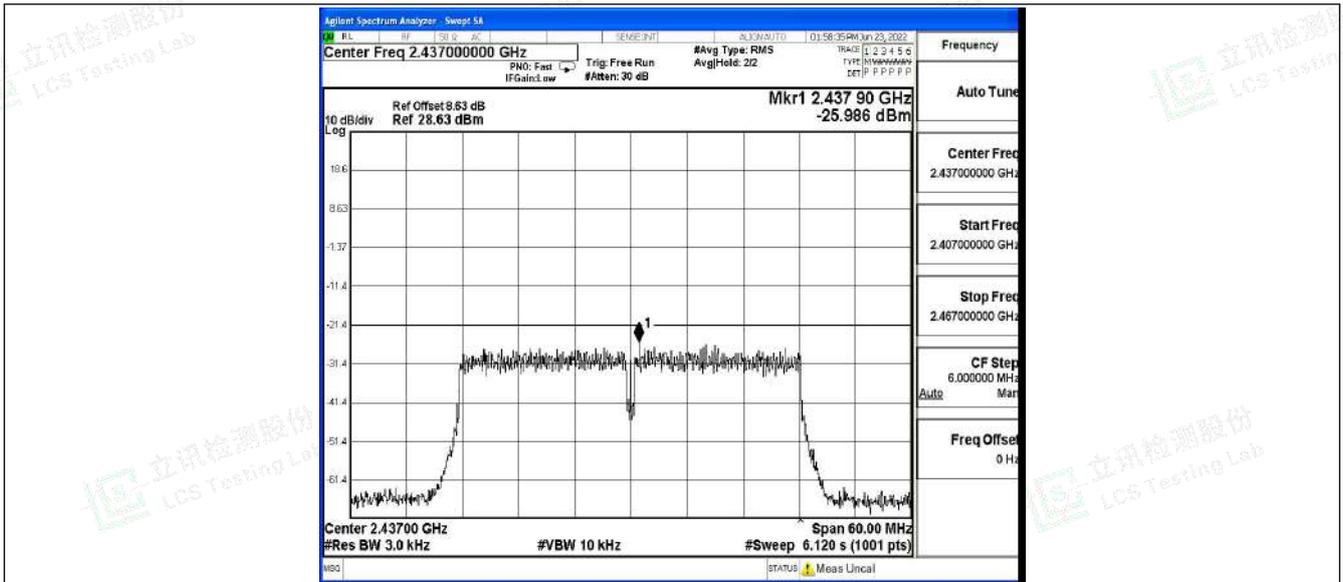


11N40SISO\_Ant1\_2422

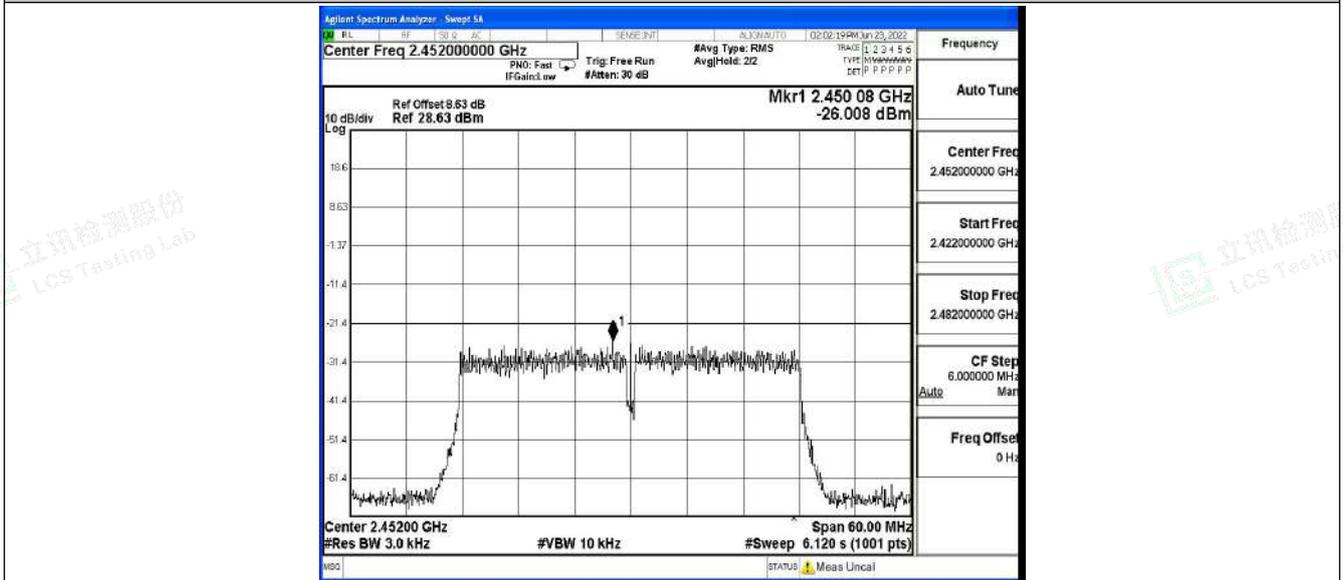


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452





## B.4 Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.36	-41.69	≤-18.64	PASS
		High	2462	1.19	-47.86	≤-18.81	PASS
11G	Ant1	Low	2412	-7.06	-42.74	≤-27.06	PASS
		High	2462	-6.55	-46.34	≤-26.55	PASS
11N20SISO	Ant1	Low	2412	-8.11	-45.74	≤-28.11	PASS
		High	2462	-7.49	-46.79	≤-27.49	PASS
11N40SISO	Ant1	Low	2422	-11.44	-46.46	≤-31.44	PASS
		High	2452	-11.87	-46.01	≤-31.87	PASS

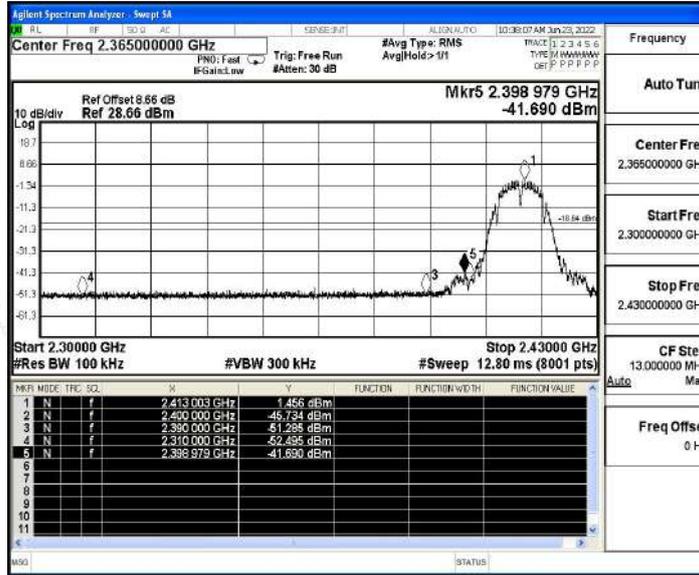


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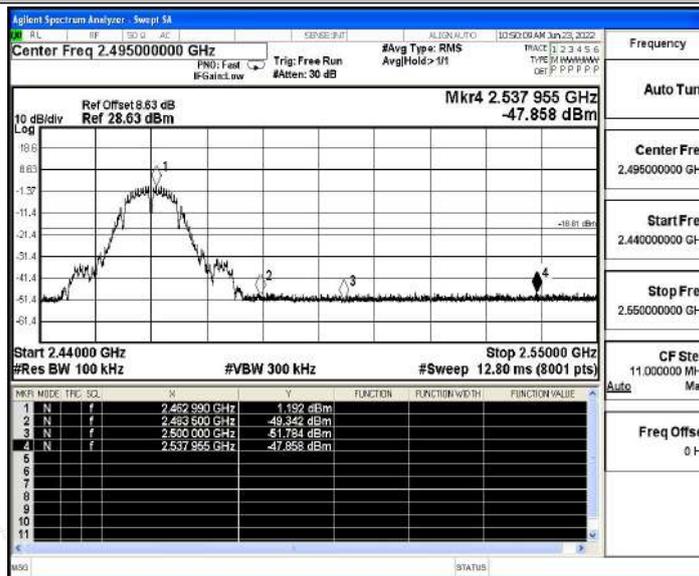


### Test Graphs

11B\_Ant1\_Low\_2412

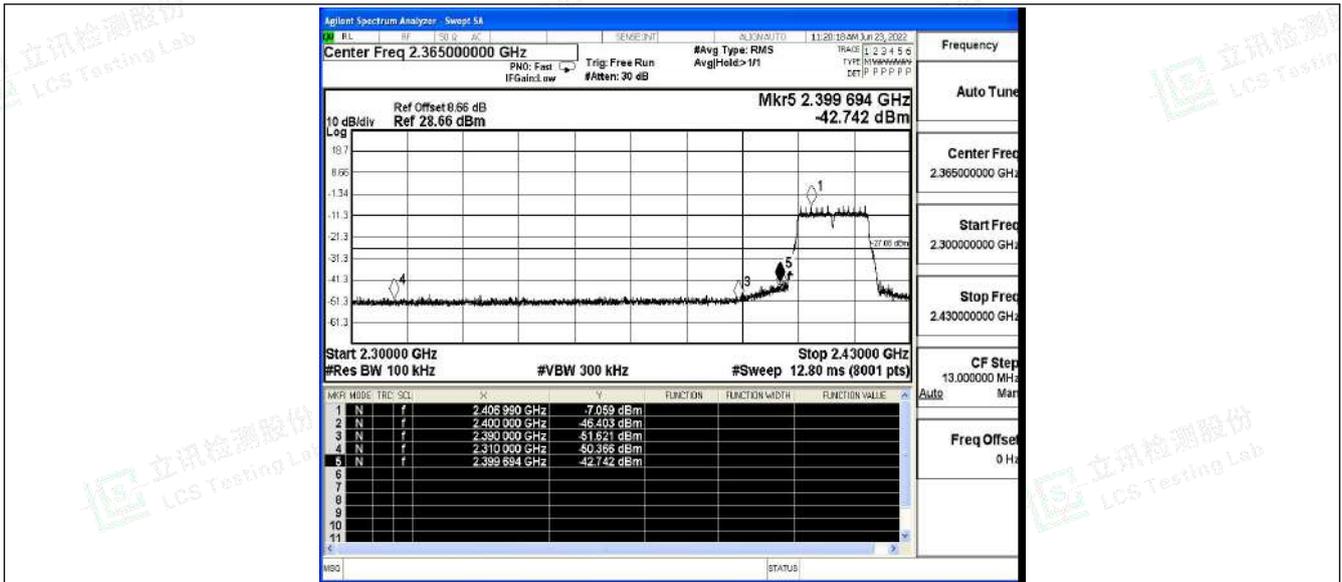


11B\_Ant1\_High\_2462

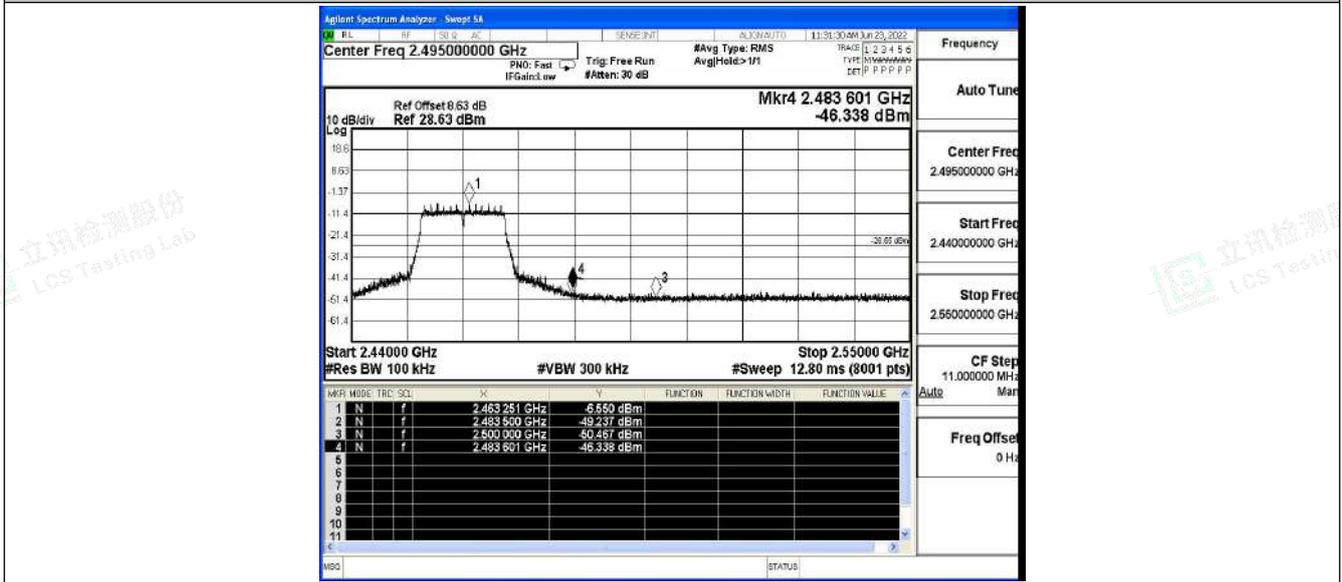


11G\_Ant1\_Low\_2412



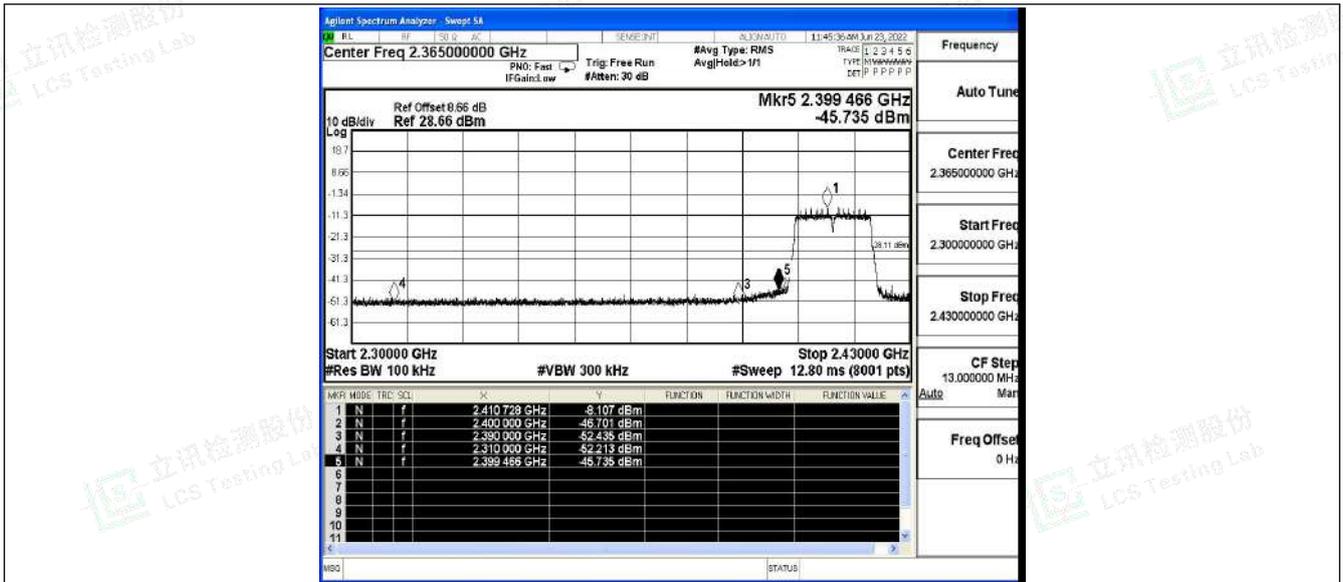


11G\_Ant1\_High\_2462

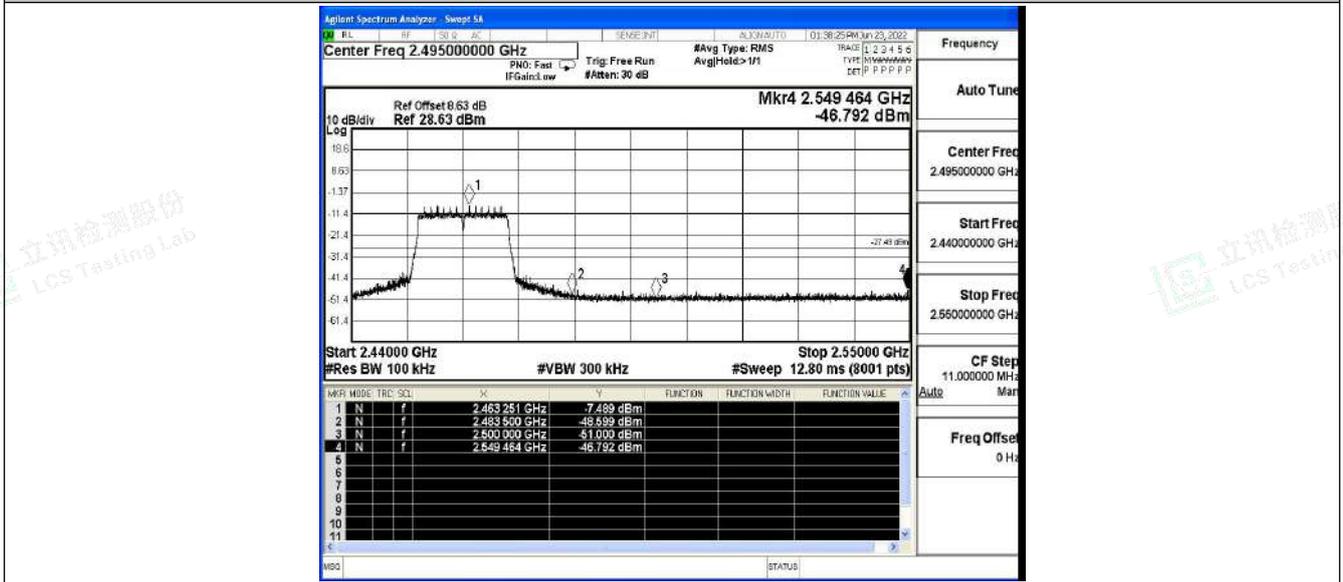


11N20SISO\_Ant1\_Low\_2412



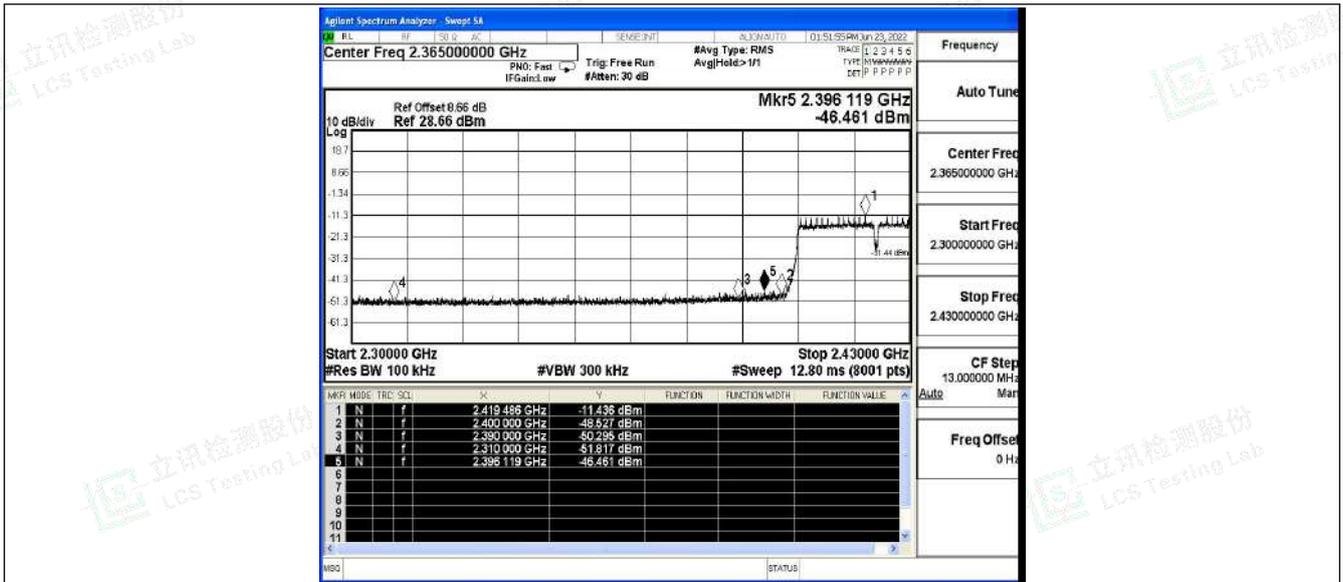


11N20SISO\_Ant1\_High\_2462

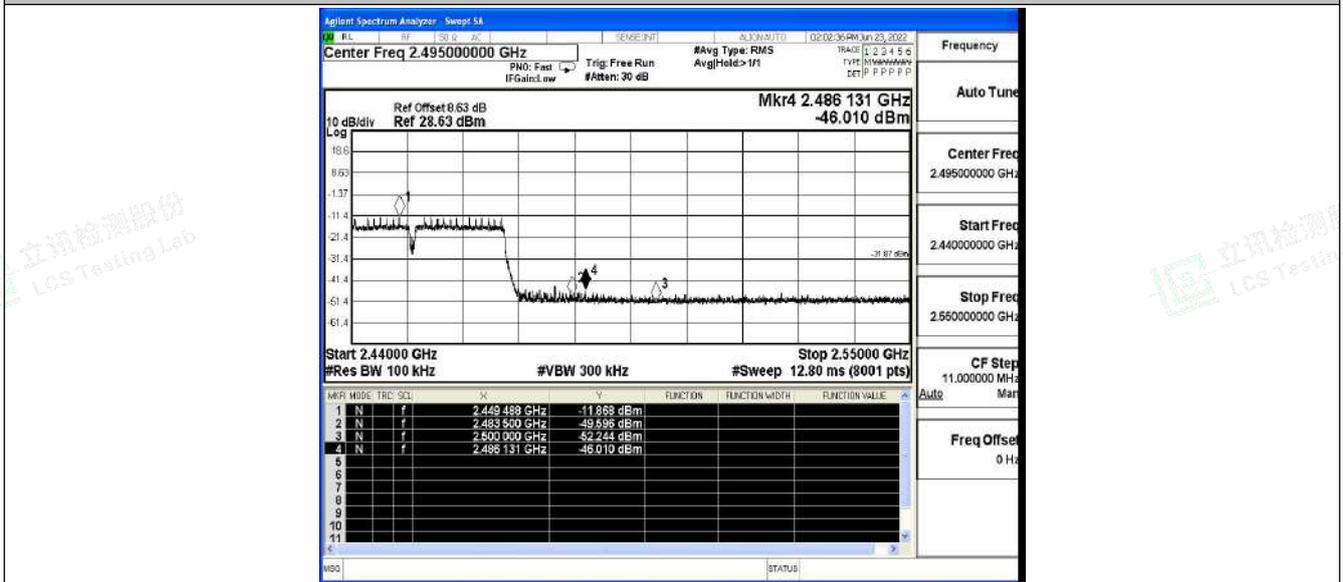


11N40SISO\_Ant1\_Low\_2422





11N40SISO\_Ant1\_High\_2452





## B.5 Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-42.36	≤-18.82	PASS
			1000~26500	1.18	-45.54	≤-18.82	PASS
		2437	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-60.28	≤-19.23	PASS
			1000~26500	0.77	-46.33	≤-19.23	PASS
		2462	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-60.21	≤-18.94	PASS
			1000~26500	1.06	-45.73	≤-18.94	PASS
11G	Ant1	2412	Reference	-6.84	-6.84	---	PASS
			30~1000	-6.84	-51.3	≤-26.84	PASS
			1000~26500	-6.84	-45.97	≤-26.84	PASS
		2437	Reference	-6.90	-6.90	---	PASS
			30~1000	-6.90	-51.57	≤-26.9	PASS
			1000~26500	-6.90	-45.6	≤-26.9	PASS
		2462	Reference	-6.91	-6.91	---	PASS
			30~1000	-6.91	-60.71	≤-26.91	PASS
			1000~26500	-6.91	-45.21	≤-26.91	PASS
11N20SISO	Ant1	2412	Reference	-7.66	-7.66	---	PASS
			30~1000	-7.66	-60.66	≤-27.66	PASS
			1000~26500	-7.66	-45.63	≤-27.66	PASS
		2437	Reference	-7.96	-7.96	---	PASS
			30~1000	-7.96	-60	≤-27.96	PASS
			1000~26500	-7.96	-45.15	≤-27.96	PASS
		2462	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-59.39	≤-27.39	PASS
			1000~26500	-7.39	-45.23	≤-27.39	PASS
11N40SISO	Ant1	2422	Reference	-11.57	-11.57	---	PASS
			30~1000	-11.57	-59.97	≤-31.57	PASS
			1000~26500	-11.57	-45.42	≤-31.57	PASS
		2437	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-60.47	≤-31.79	PASS
			1000~26500	-11.79	-44.77	≤-31.79	PASS
		2452	Reference	-12.04	-12.04	---	PASS
			30~1000	-12.04	-60.51	≤-32.04	PASS



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			1000~26500	-12.04	-46.1	≤-32.04	PASS
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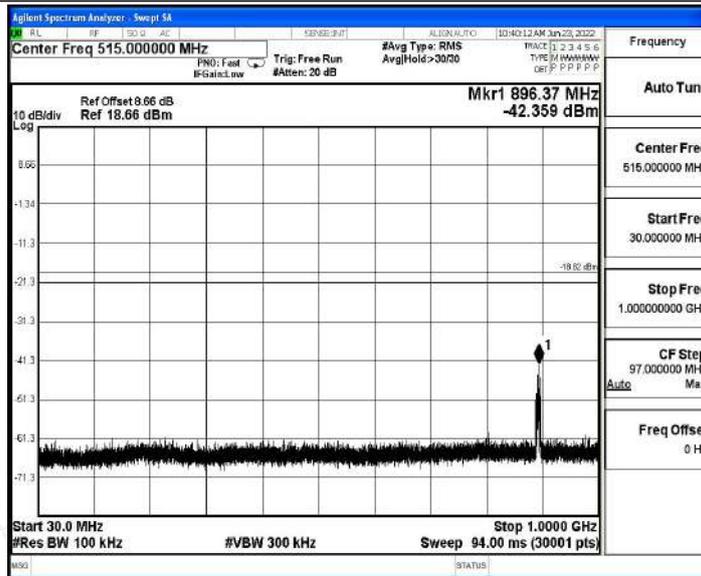


### Test Graphs

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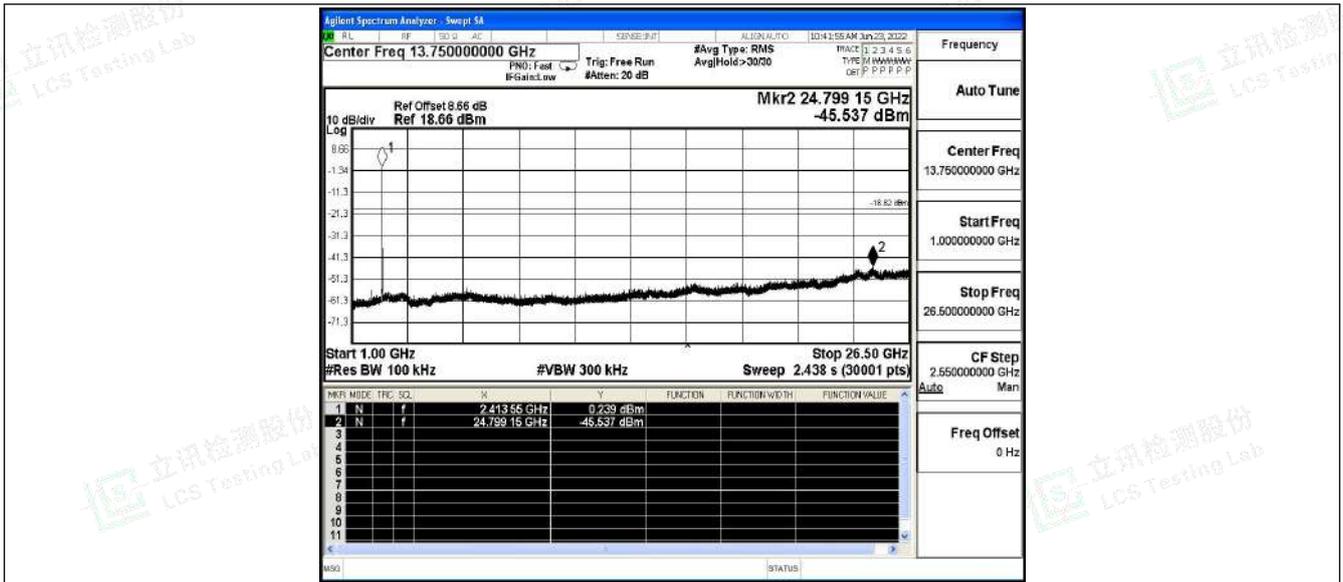


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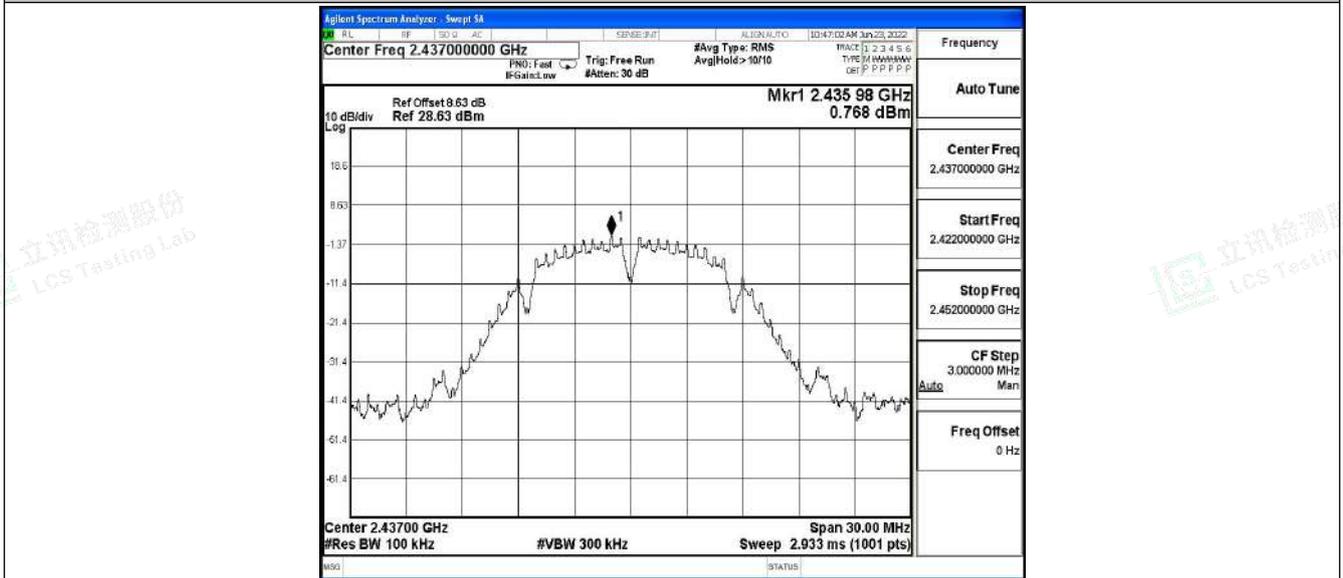


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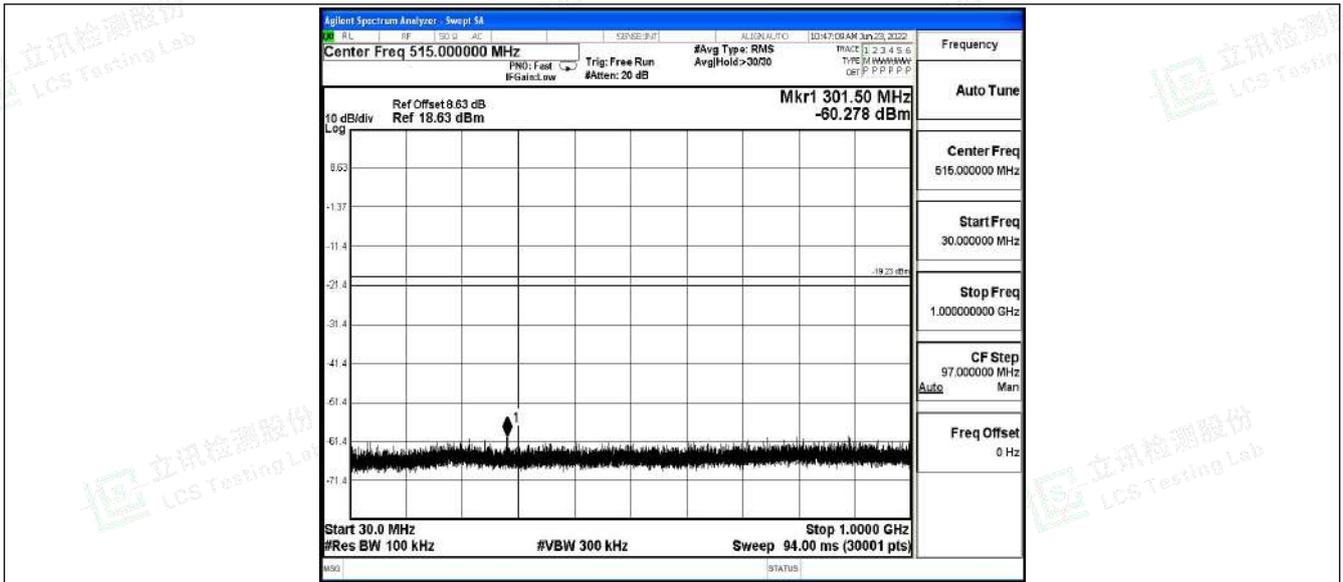


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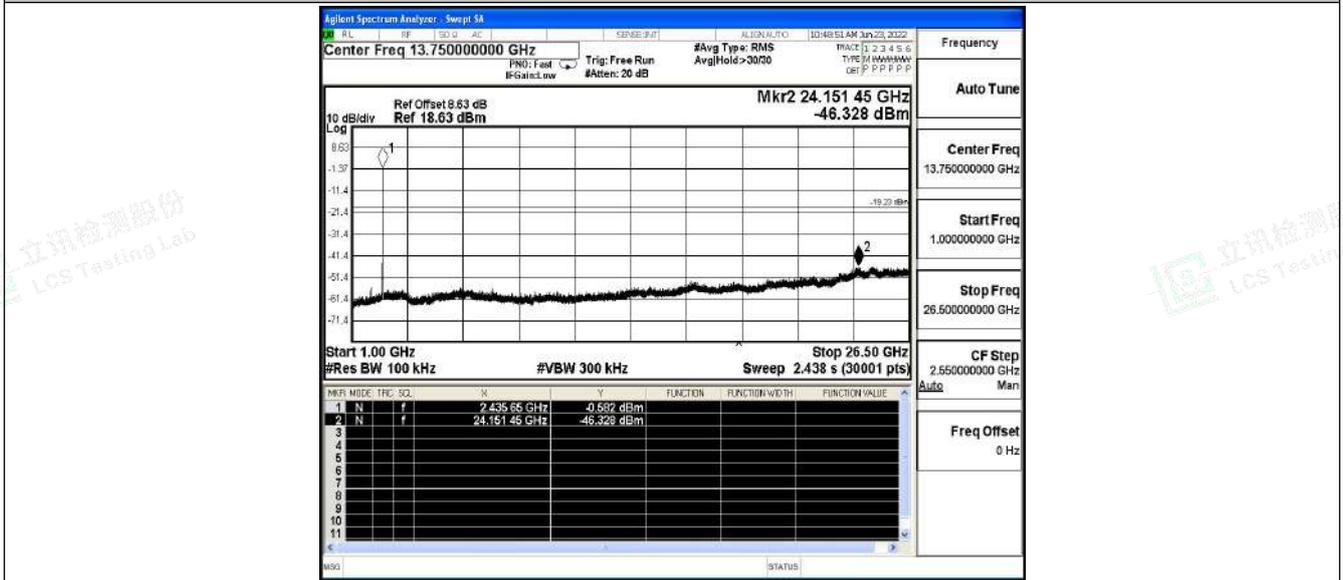


11B\_Ant1\_2437\_30~1000



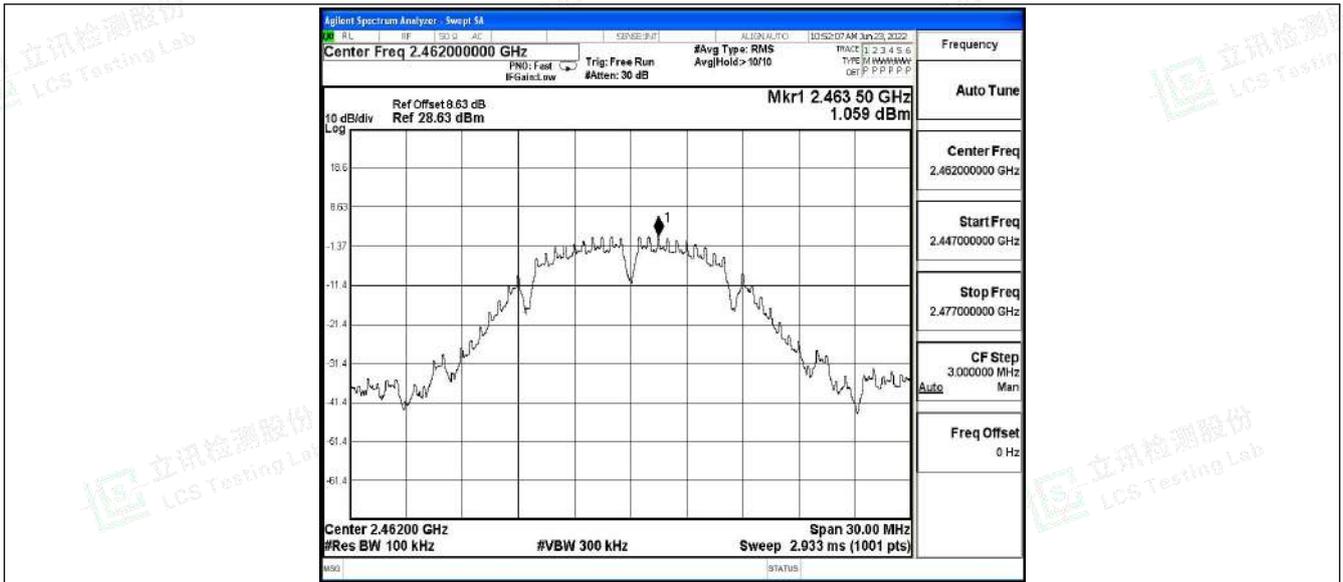


11B\_Ant1\_2437\_1000~26500

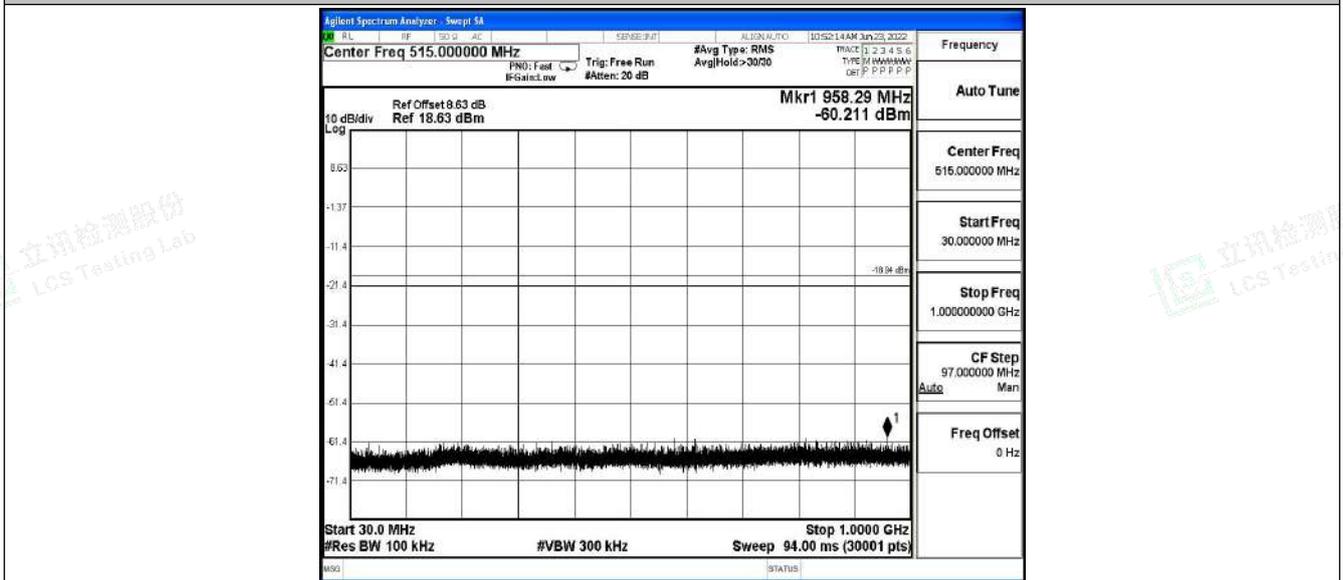


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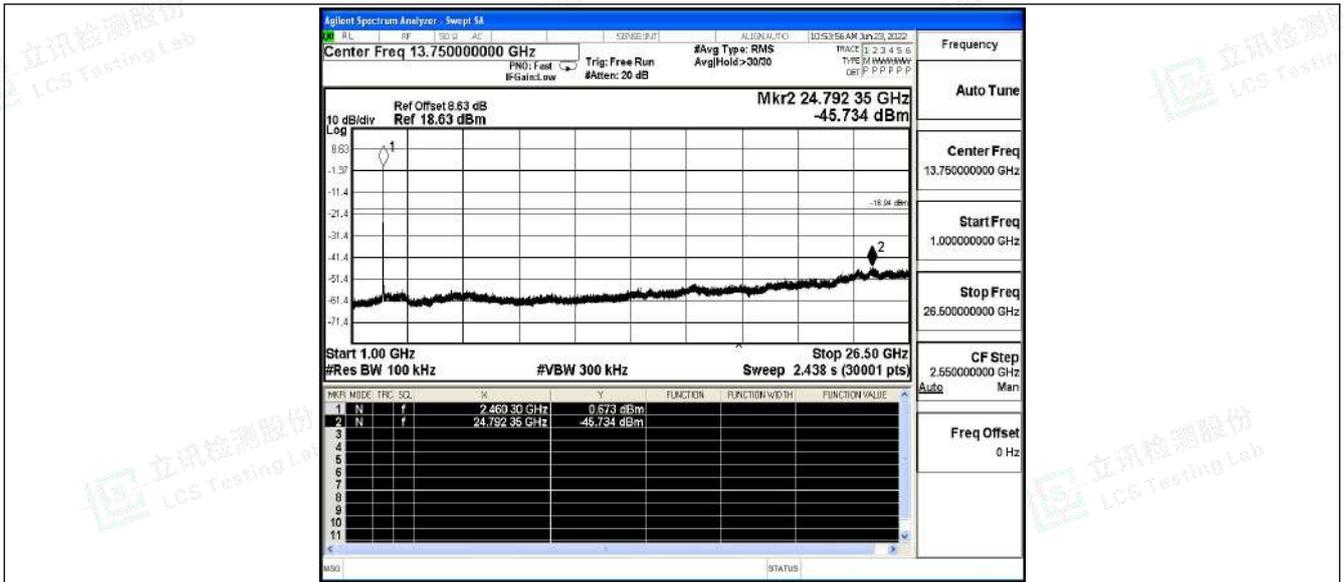


11B\_Ant1\_2462\_30~1000

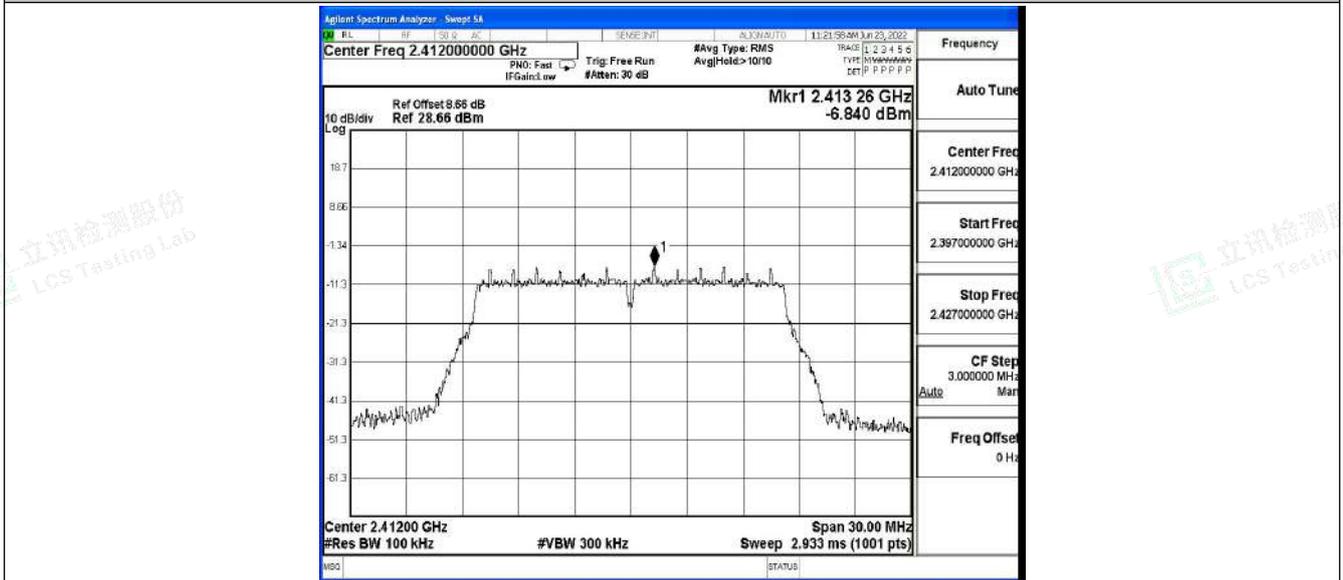


11B\_Ant1\_2462\_1000~26500



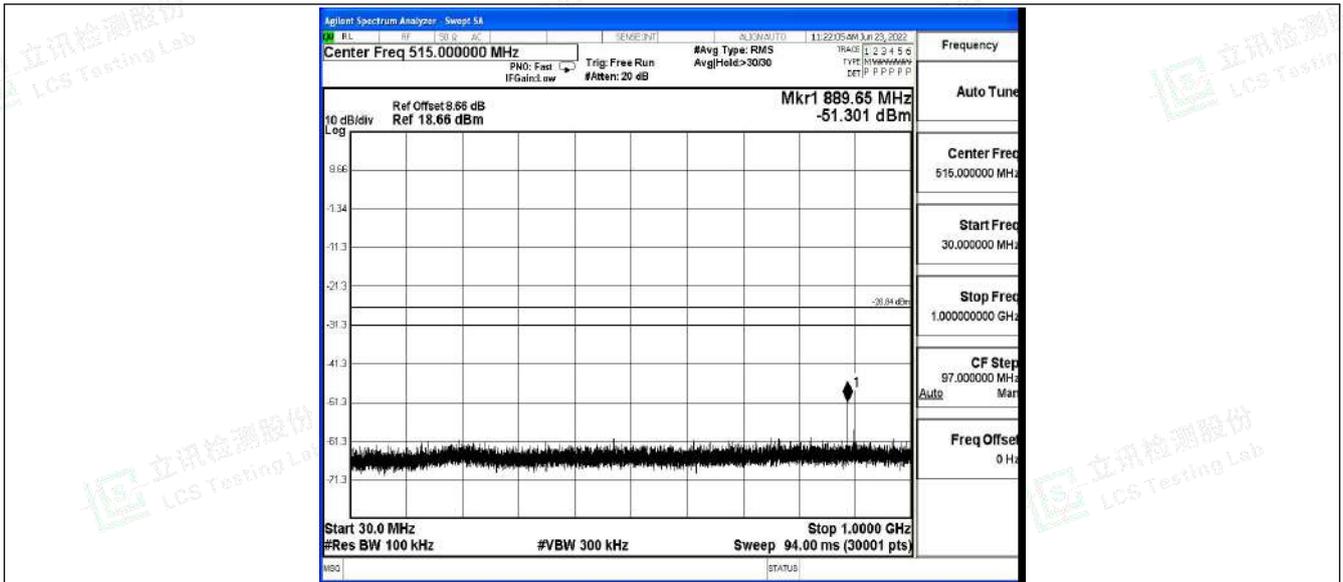


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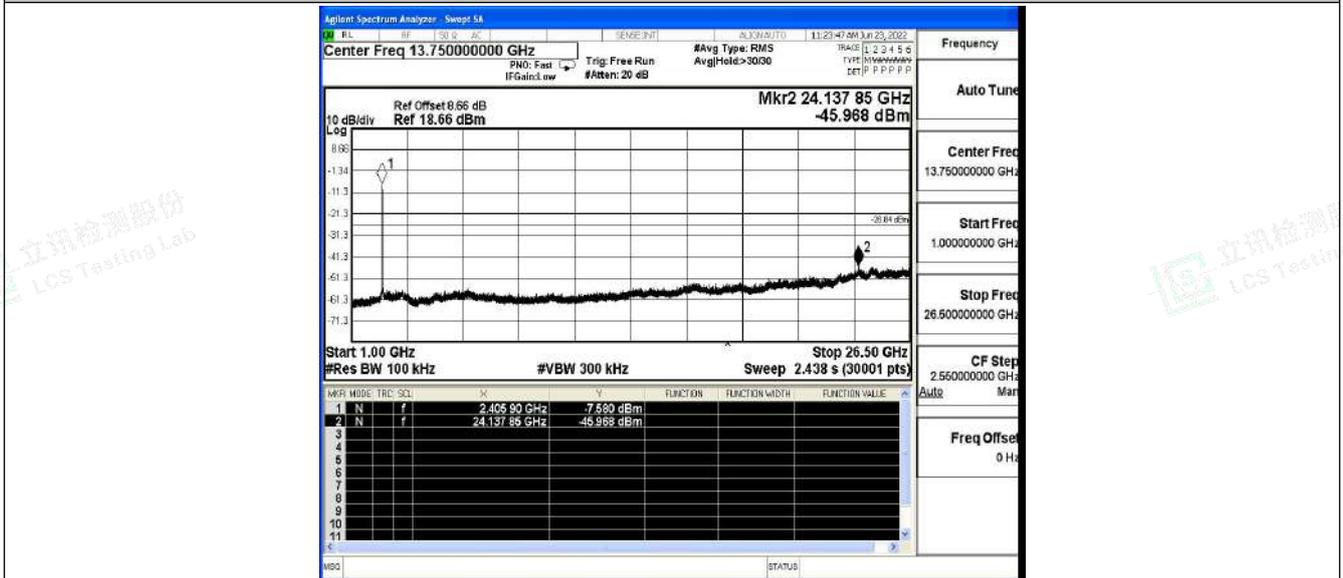


11G\_Ant1\_2412\_30~1000



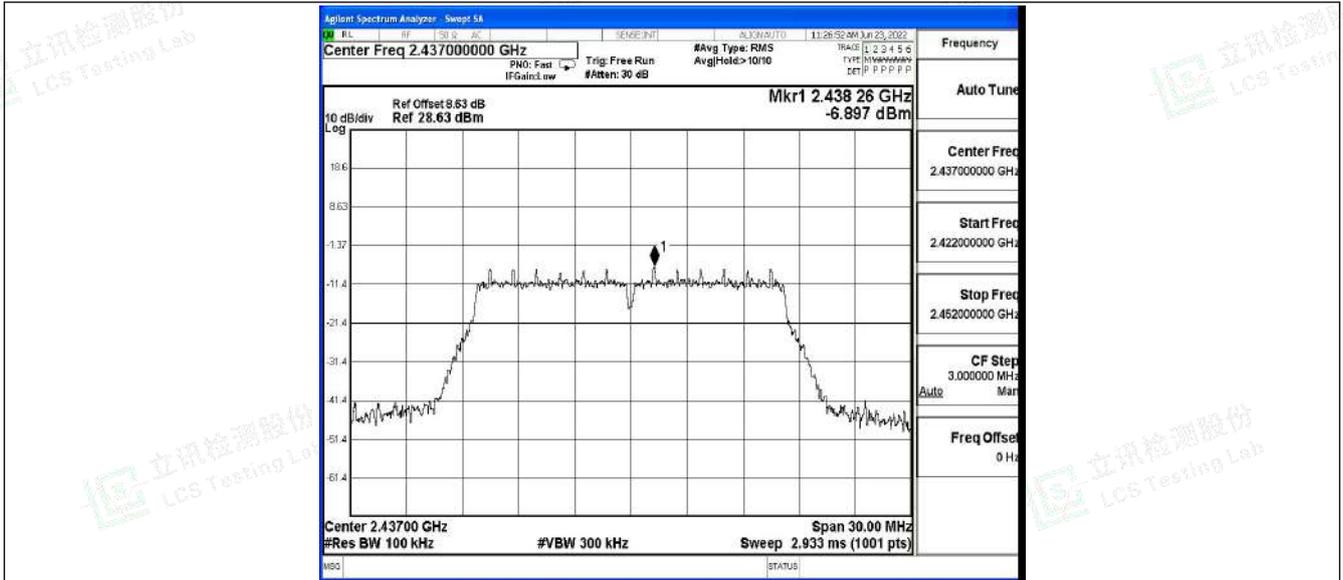


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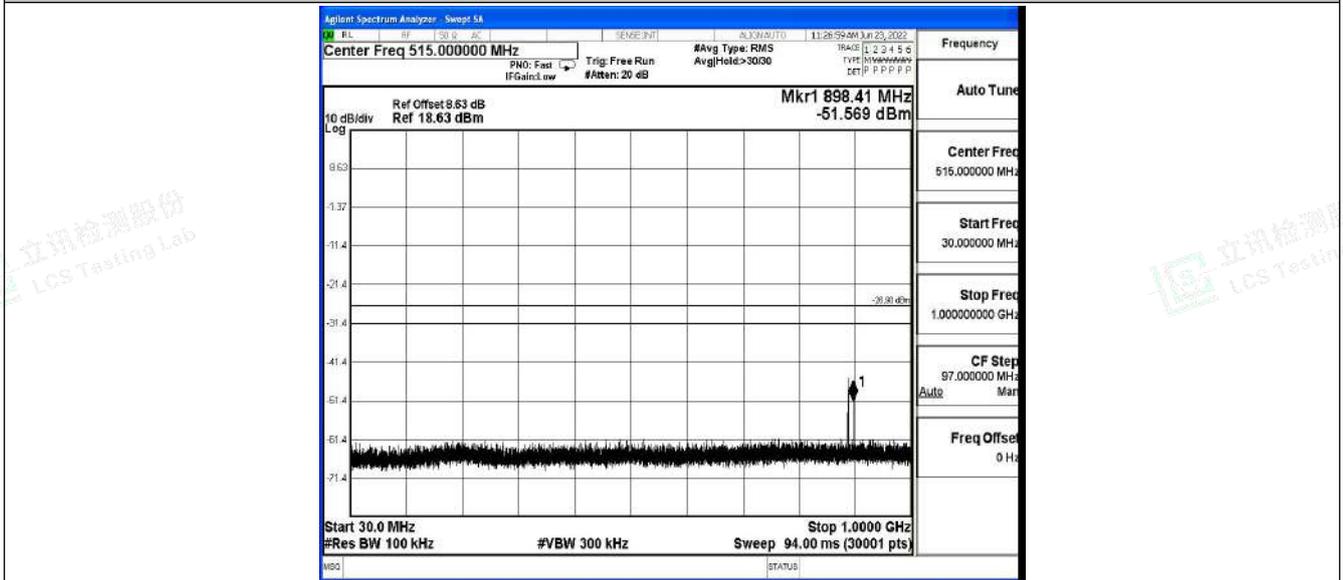


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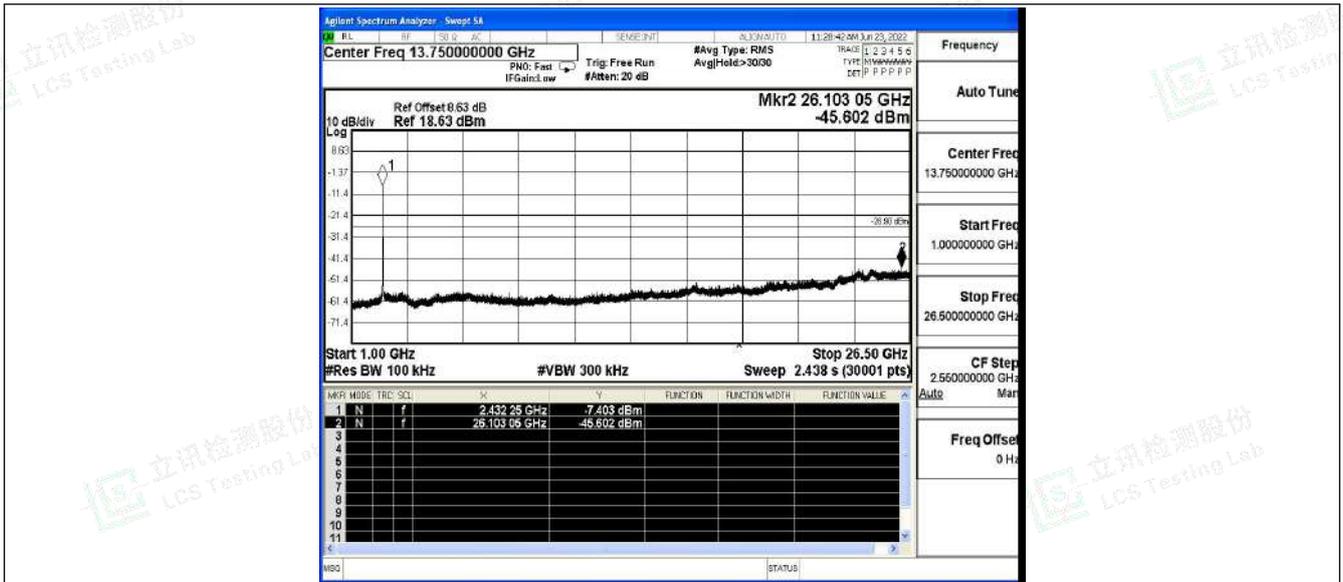


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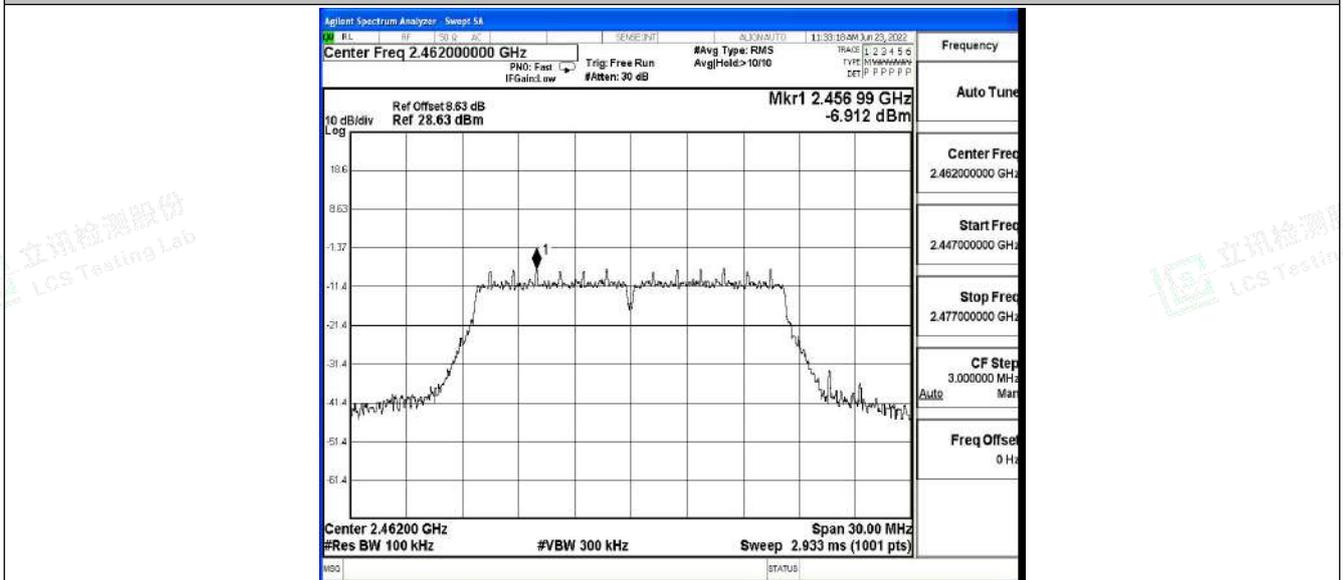


11G\_Ant1\_2437\_1000~26500



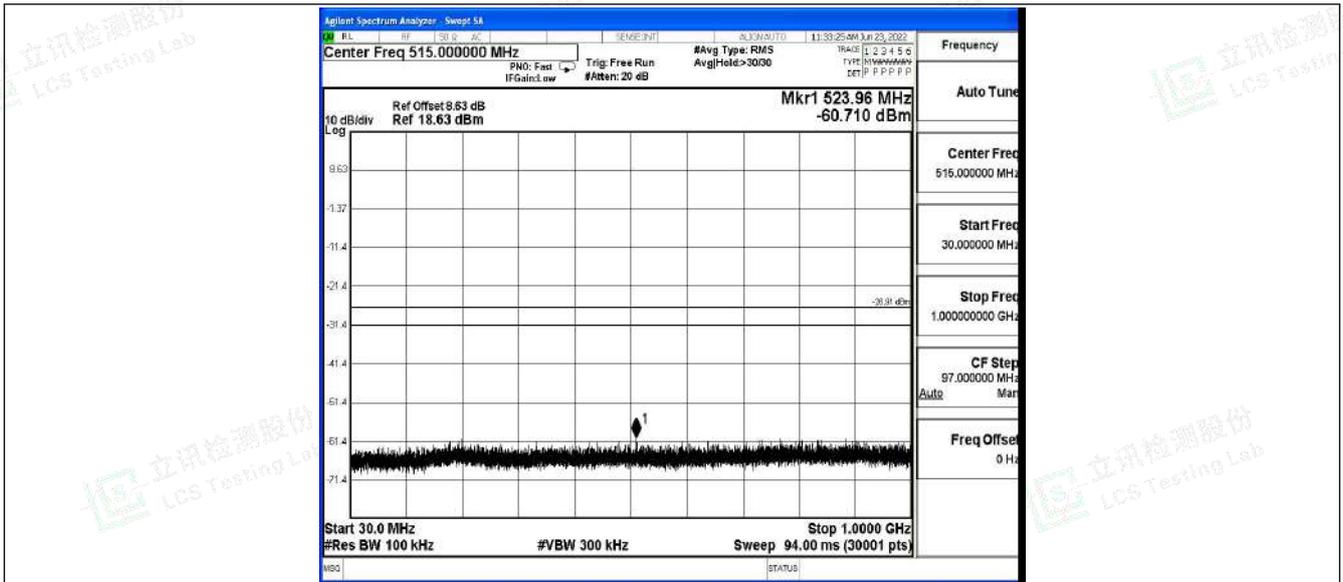


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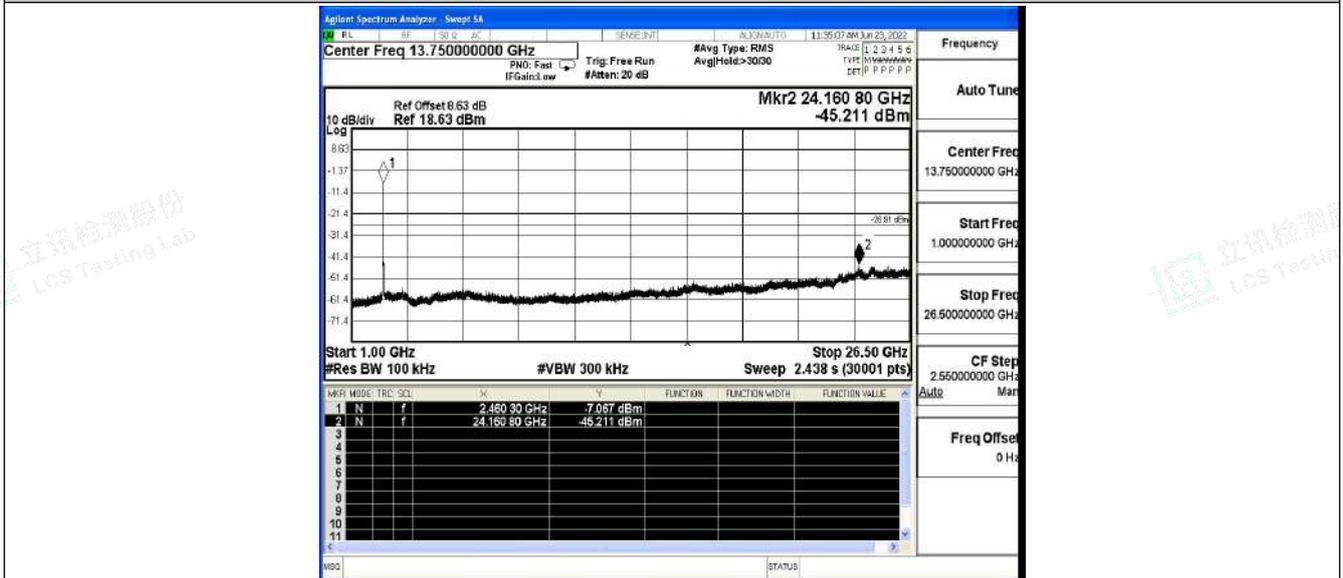


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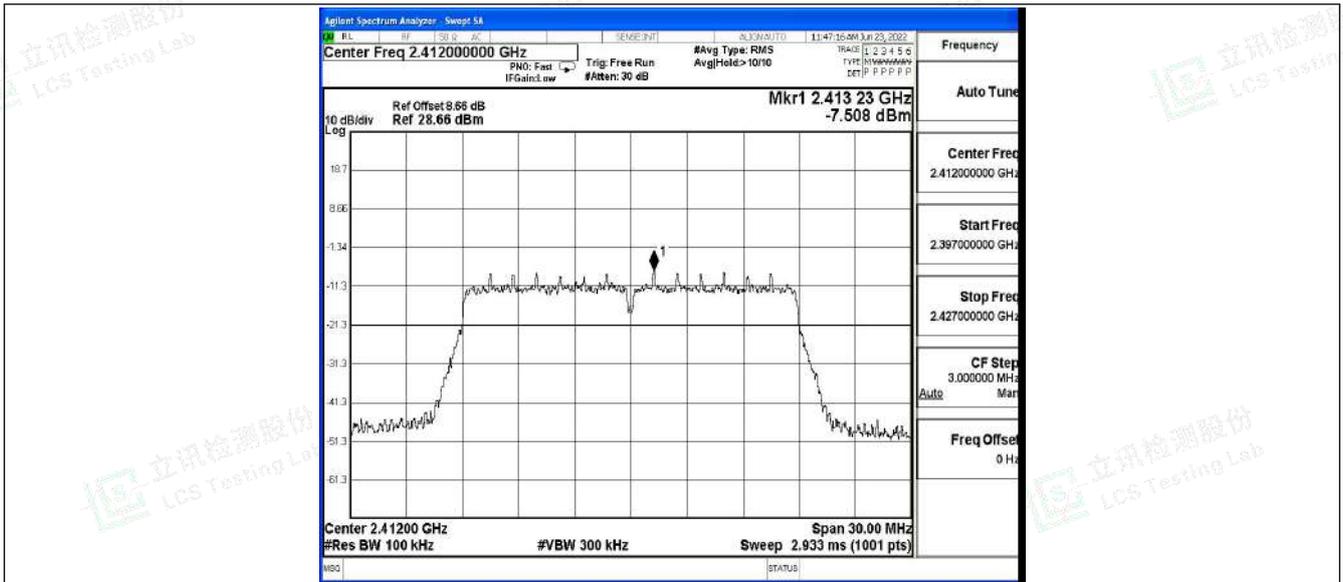


11G\_Ant1\_2462\_1000~26500

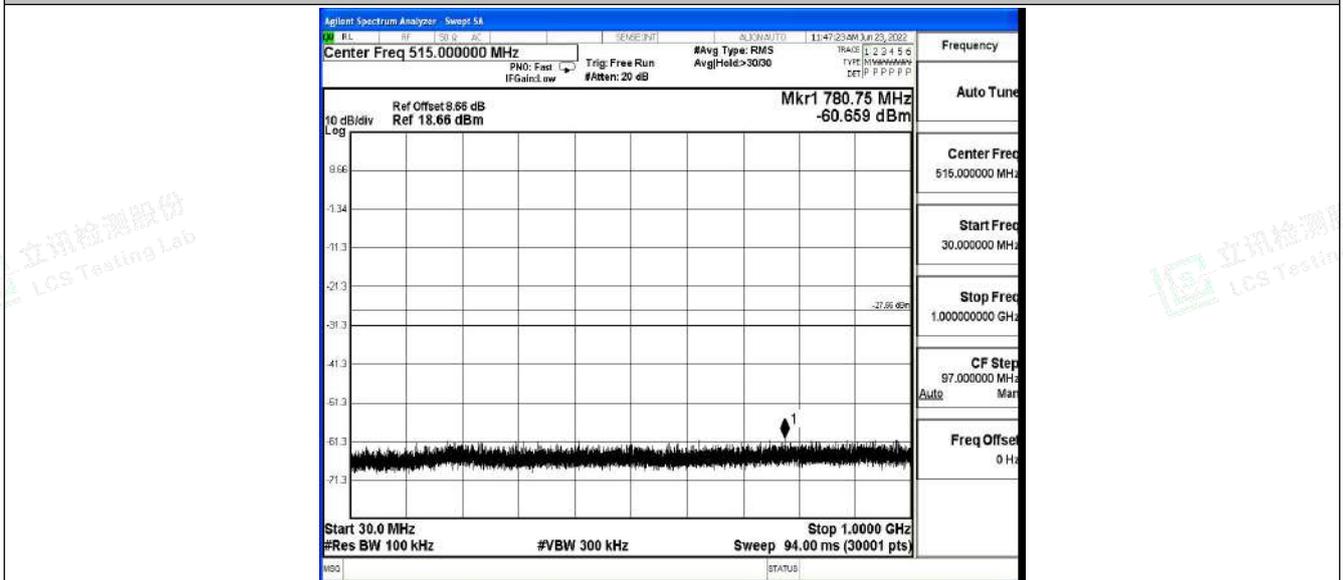


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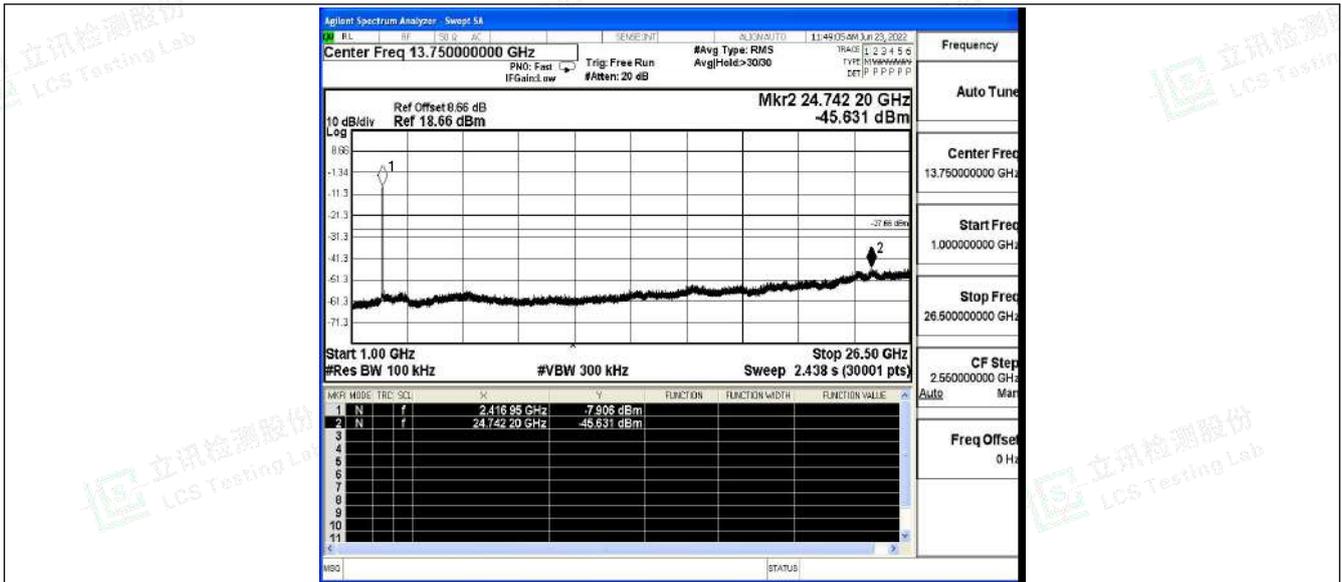


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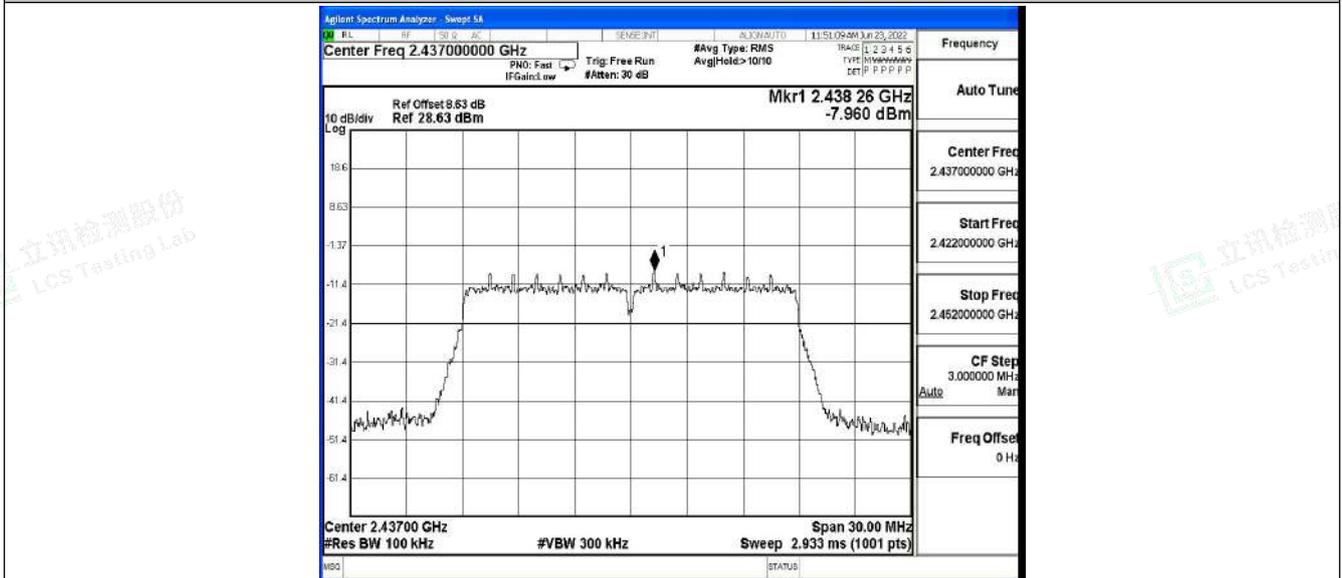


11N20SISO\_Ant1\_2412\_1000~26500



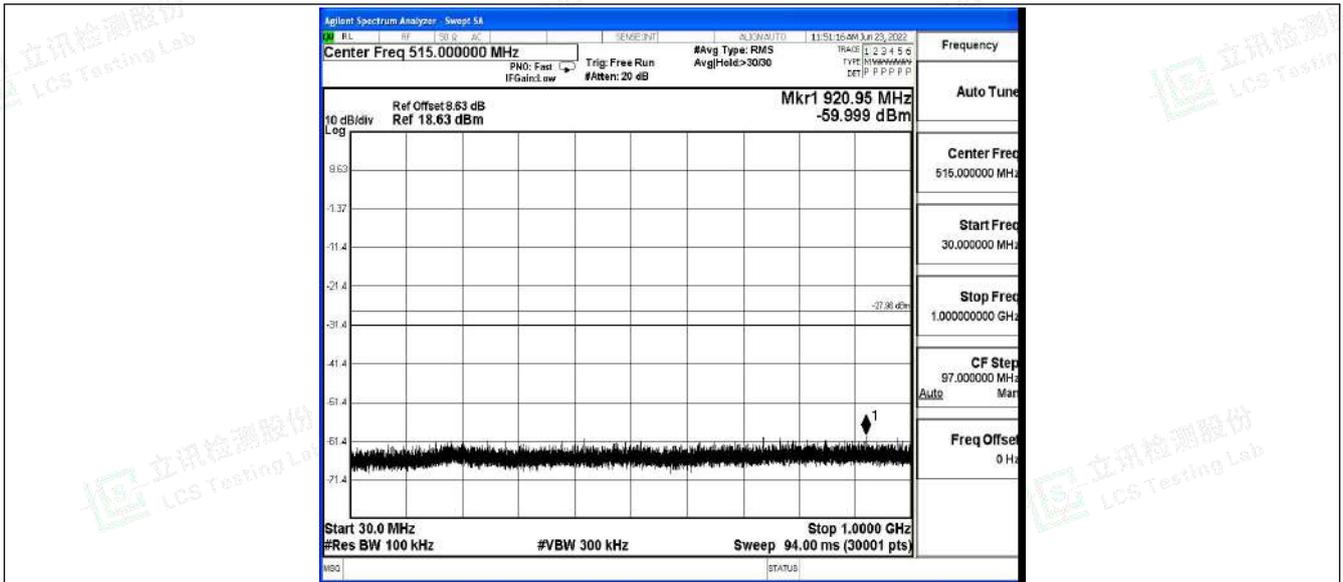


11N20SISO\_Ant1\_2437\_0~Reference

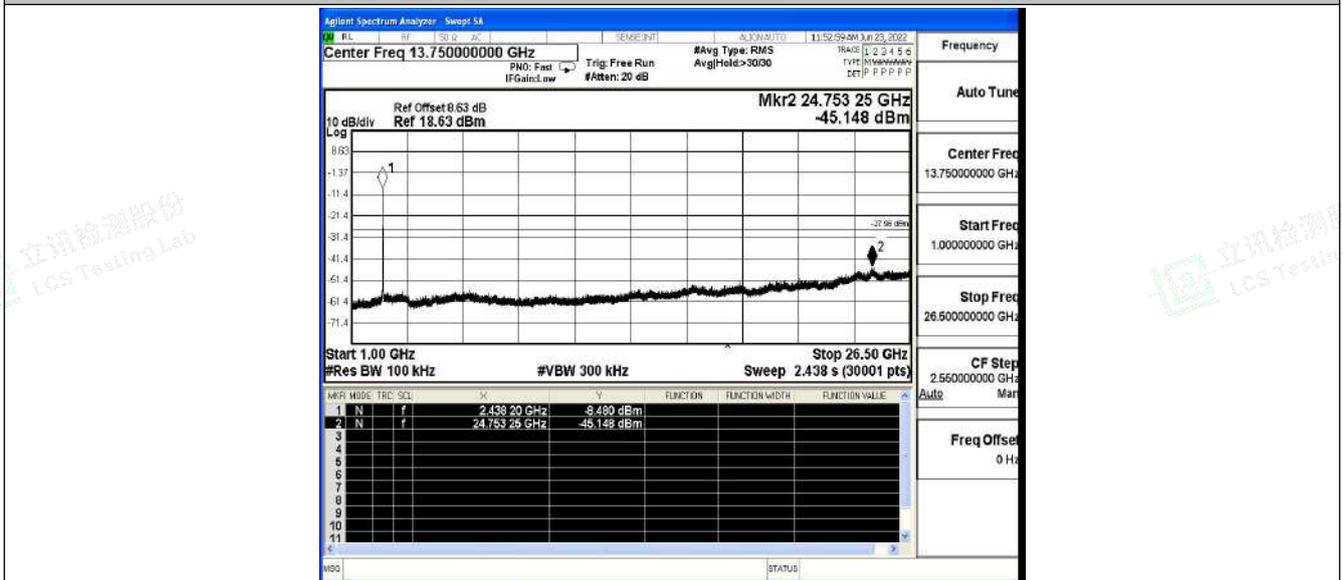


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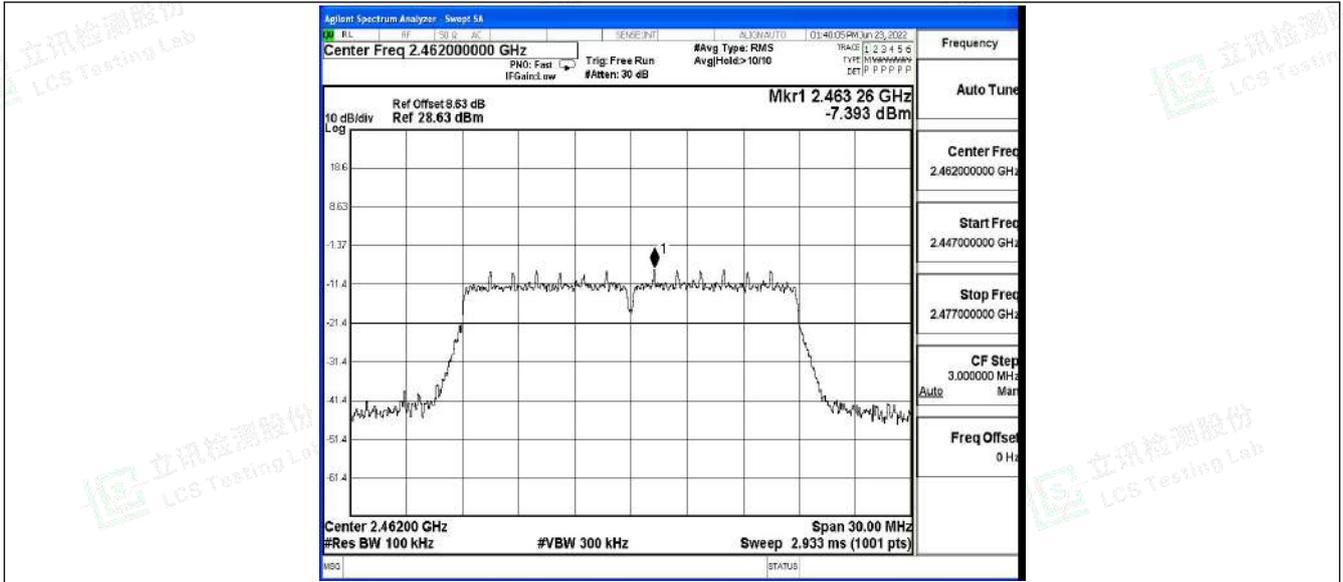


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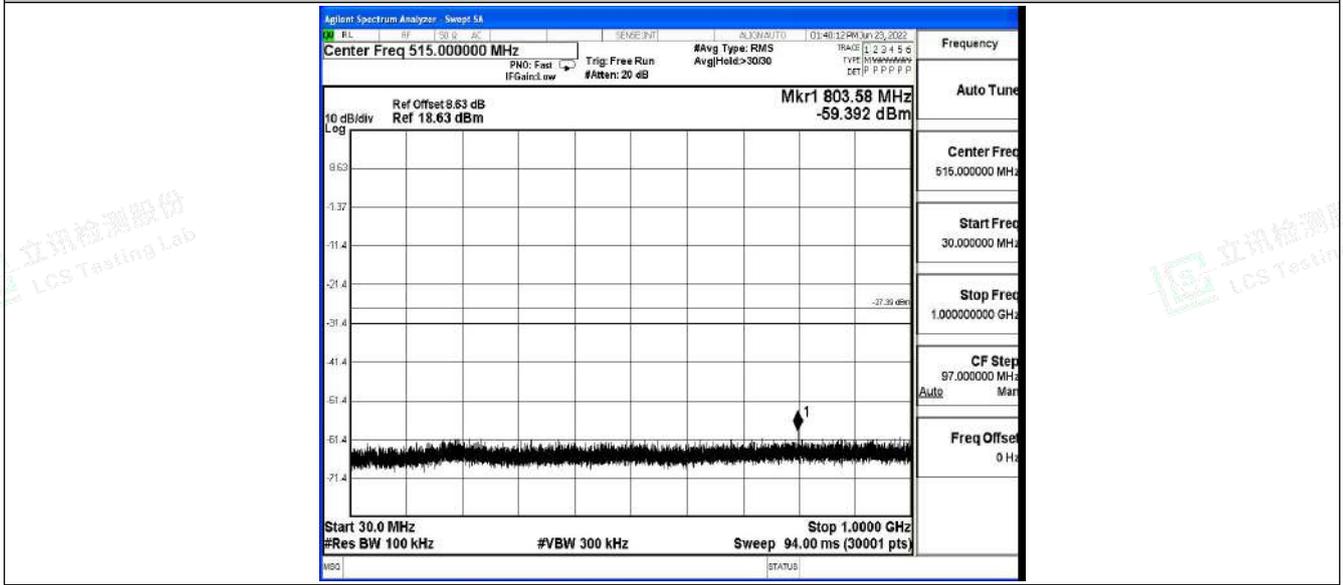


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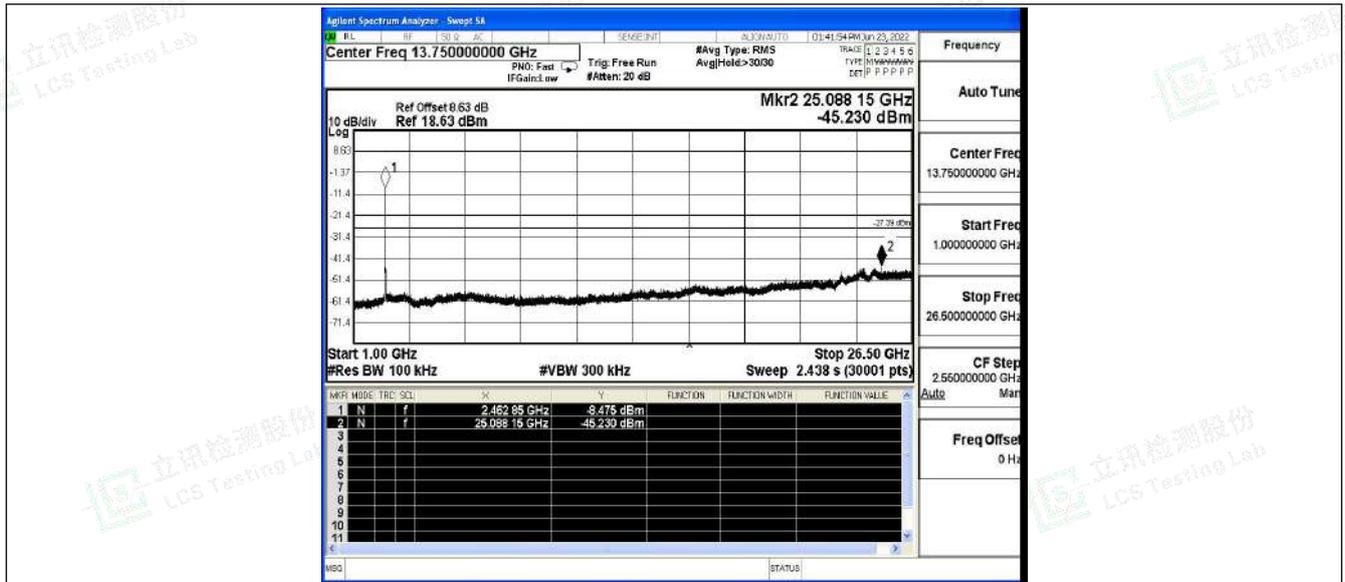


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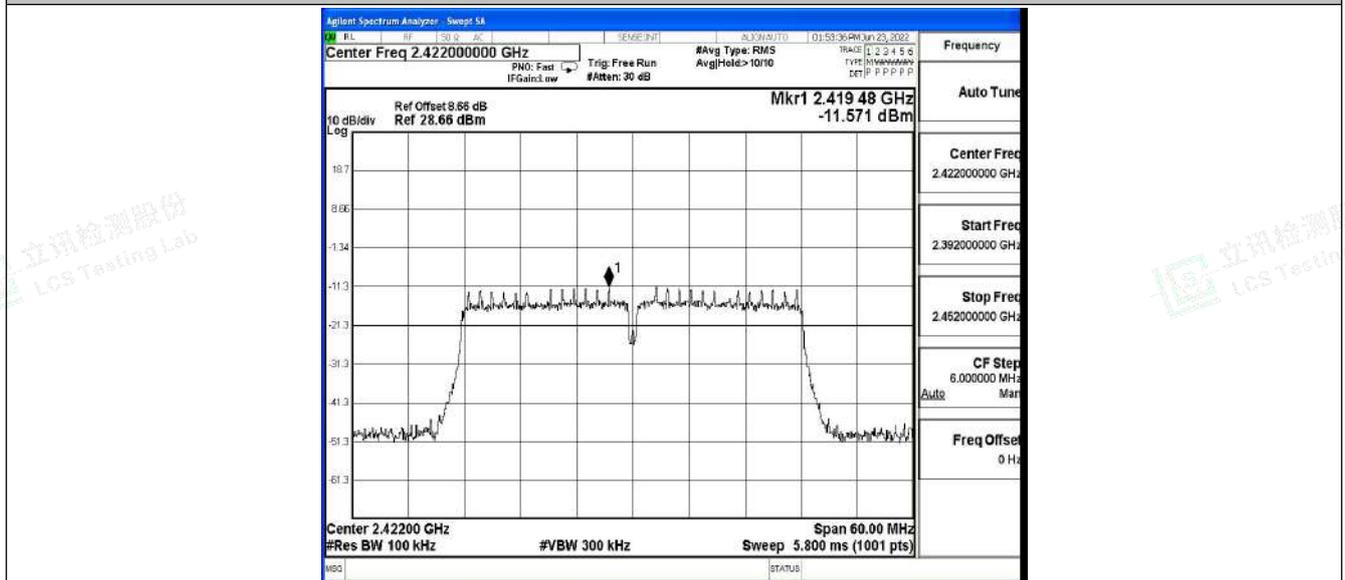


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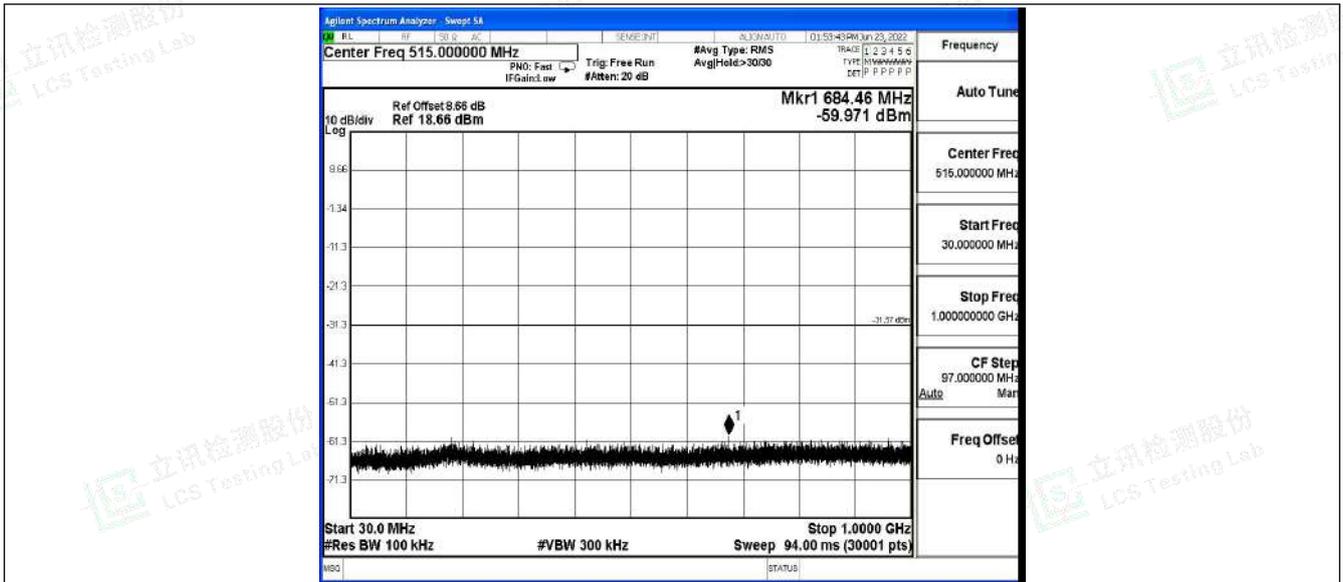


11N40SISO\_Ant1\_2422\_0~Reference

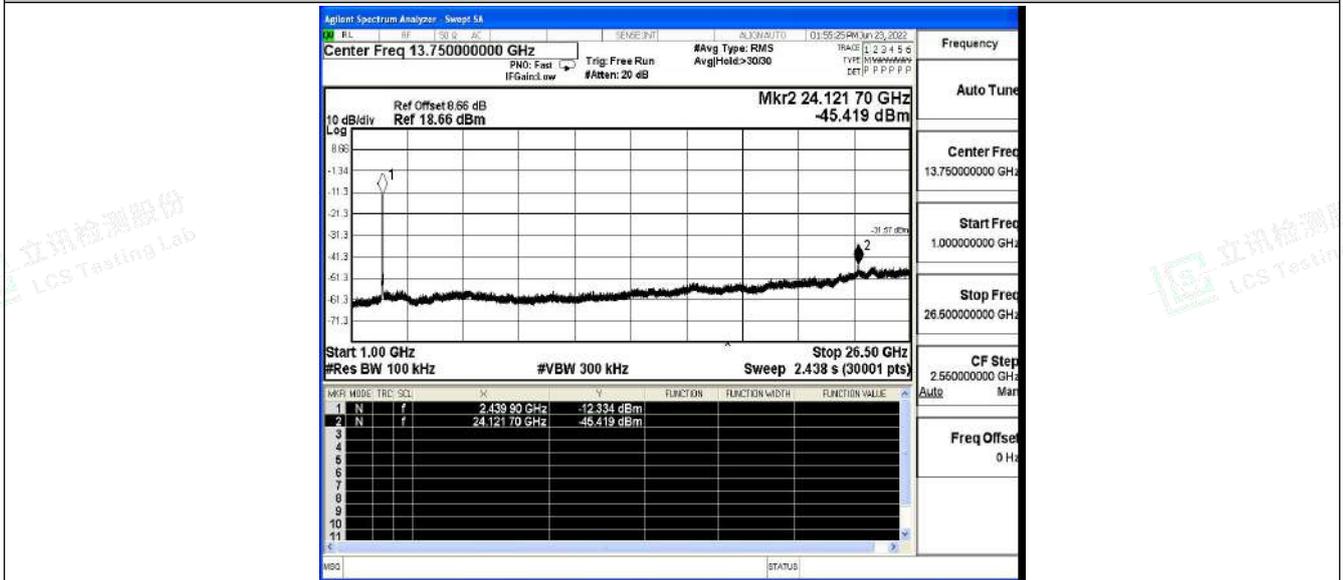


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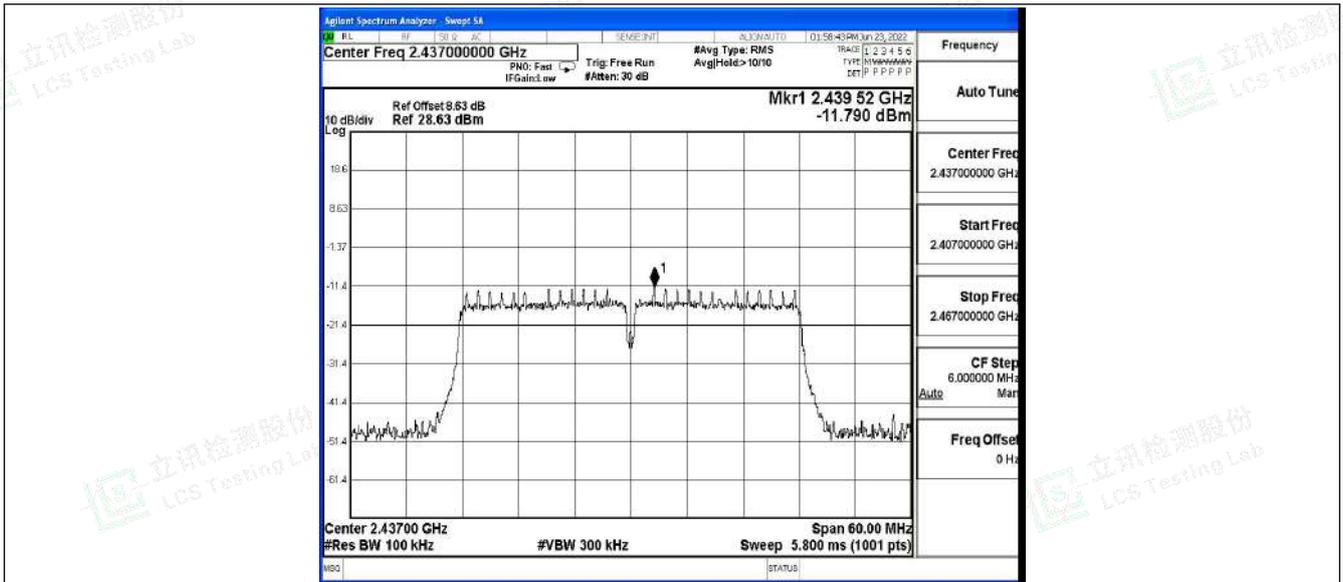


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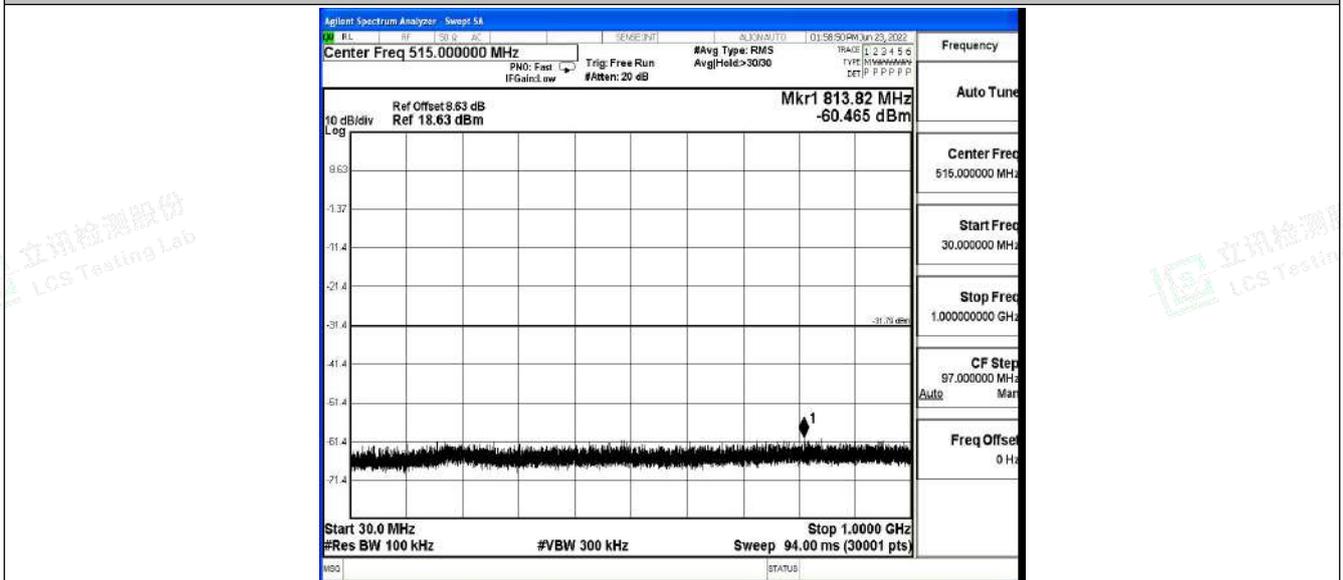


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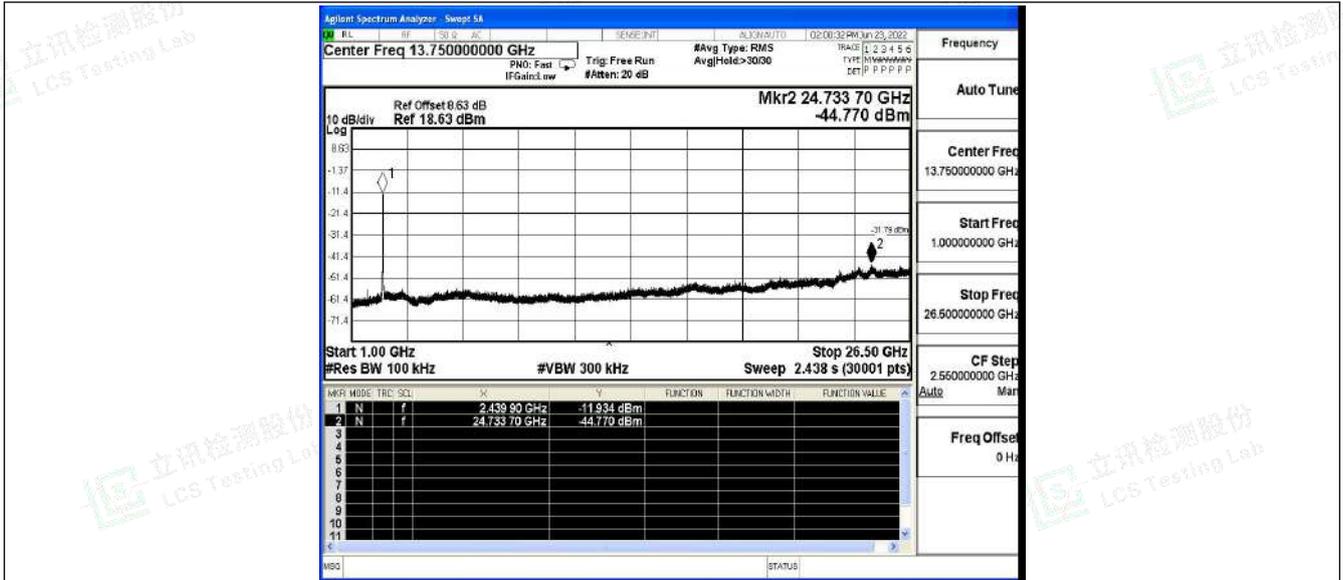


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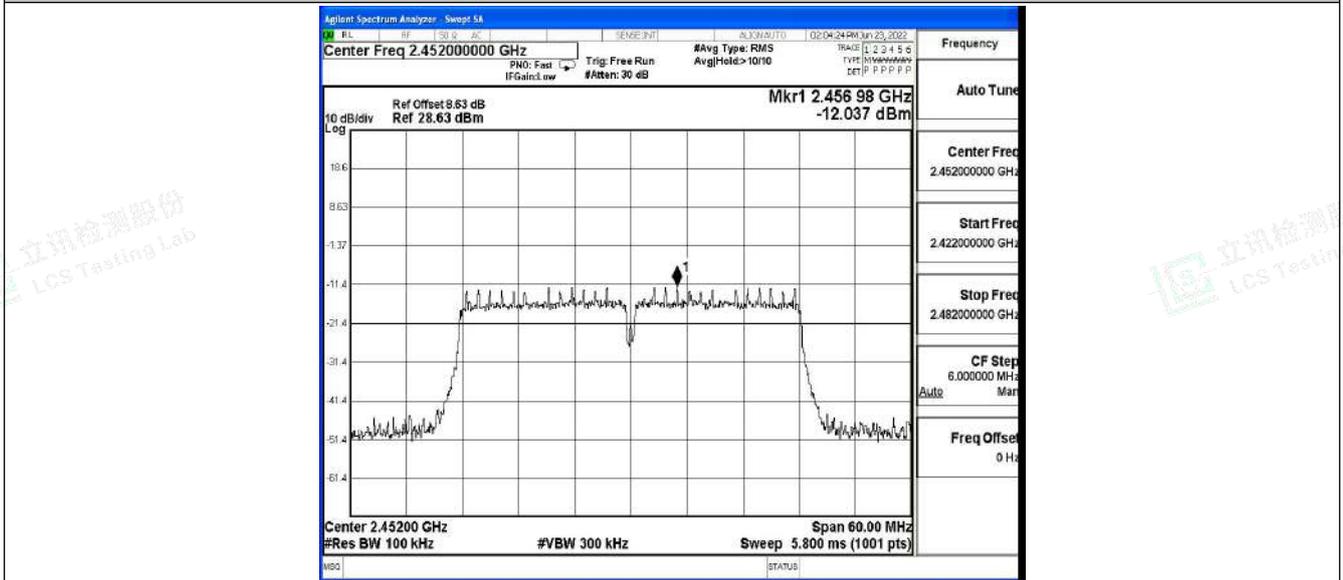


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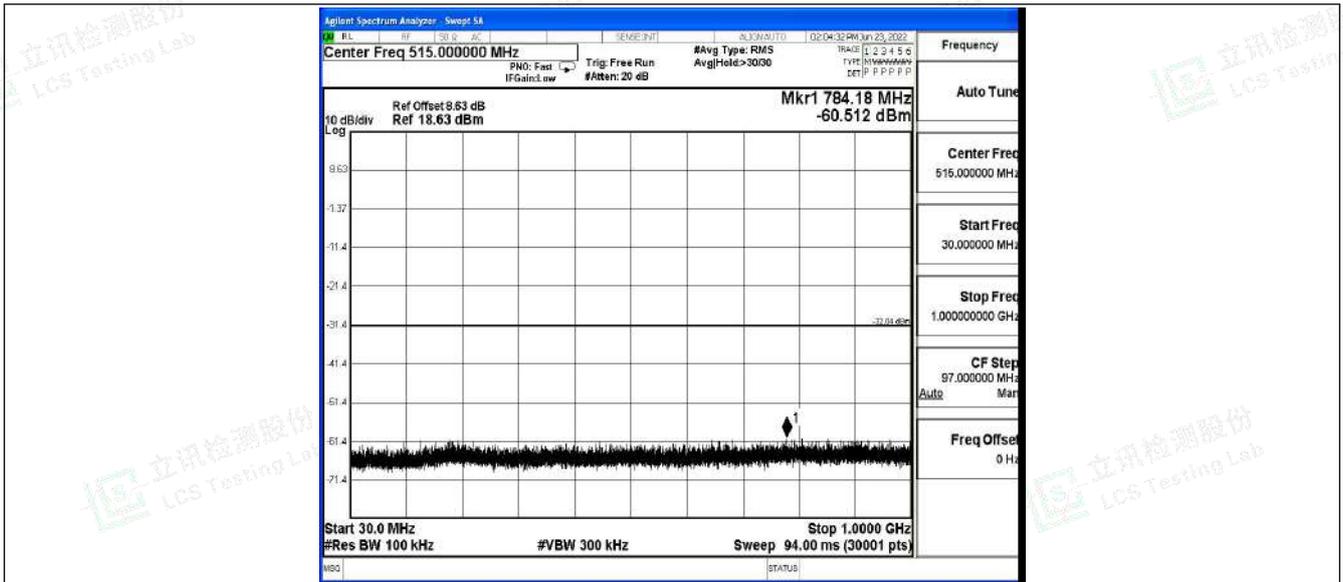


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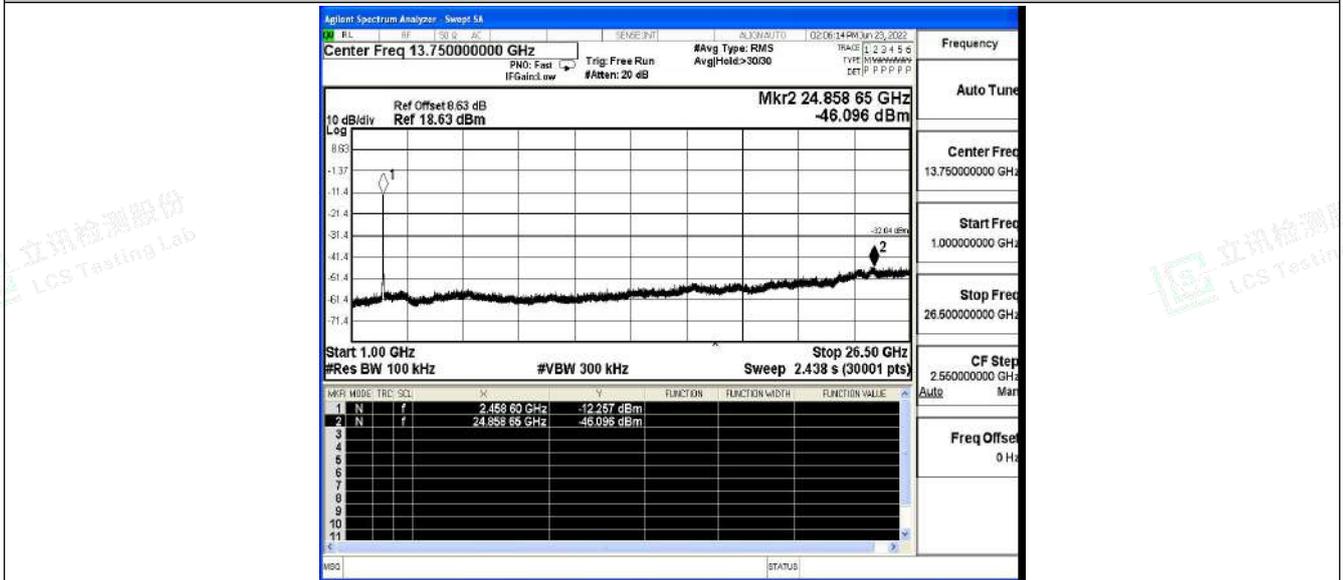


11N40SISO\_Ant1\_2452\_30~1000





11N40SISO\_Ant1\_2452\_1000~26500





### B.6 Duty Cycle

#### Test Result

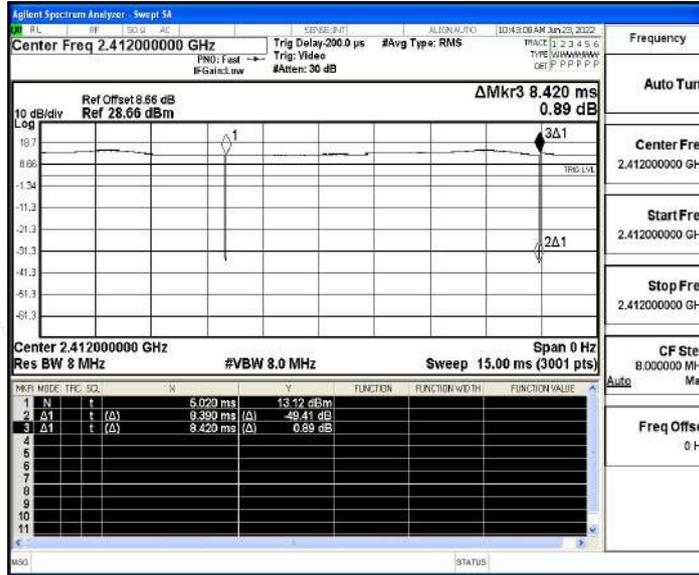
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	---
		2437	8.39	8.42	99.64	---	---
		2462	8.38	8.41	99.64	---	---
11G	Ant1	2412	1.39	1.43	97.20	---	---
		2437	1.39	1.43	97.20	---	---
		2462	1.39	1.43	97.20	---	---
11N20SISO	Ant1	2412	1.30	1.34	97.01	---	---
		2437	1.30	1.34	97.01	---	---
		2462	1.30	1.33	97.74	---	---
11N40SISO	Ant1	2422	0.65	0.68	95.59	---	---
		2437	0.65	0.68	95.59	---	---
		2452	0.65	0.68	95.59	---	---



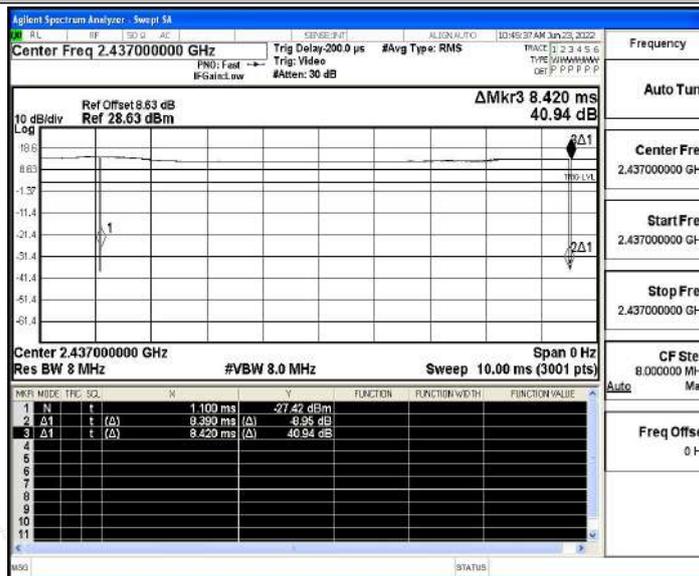


### Test Graphs

11B\_Ant1\_2412

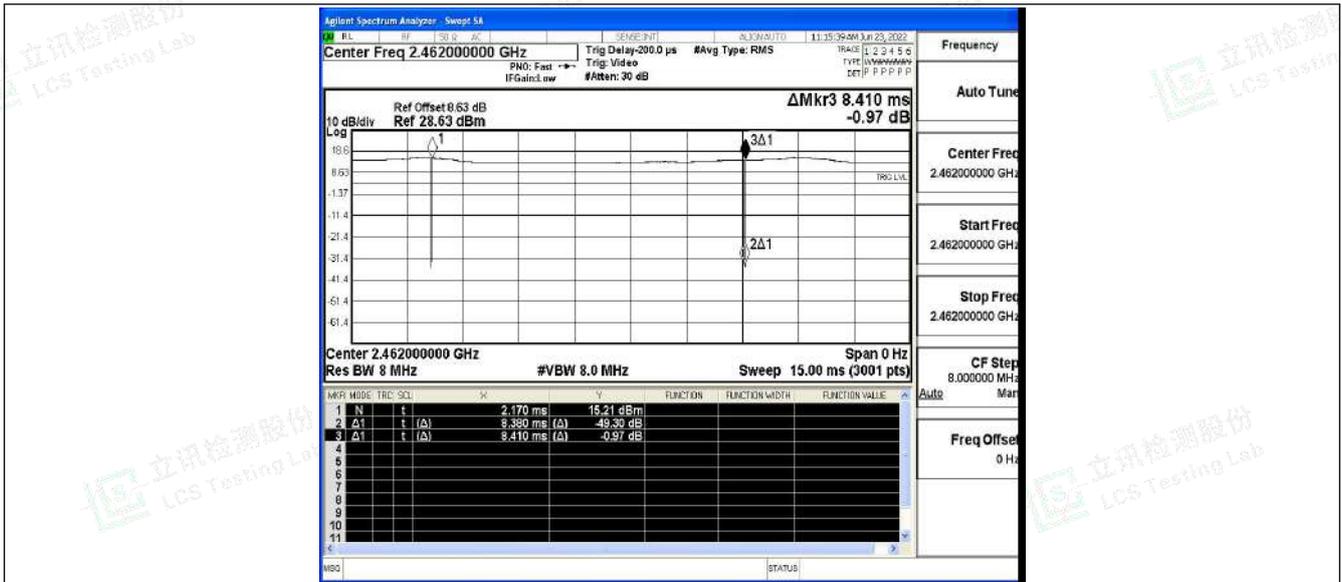


11B\_Ant1\_2437

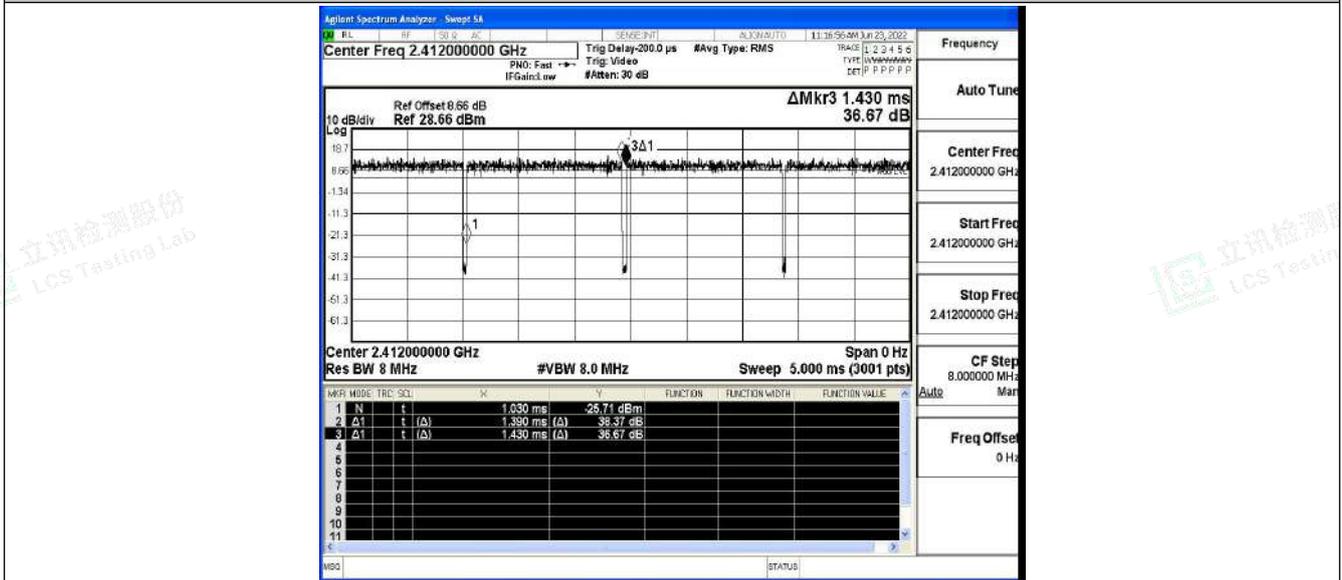


11B\_Ant1\_2462



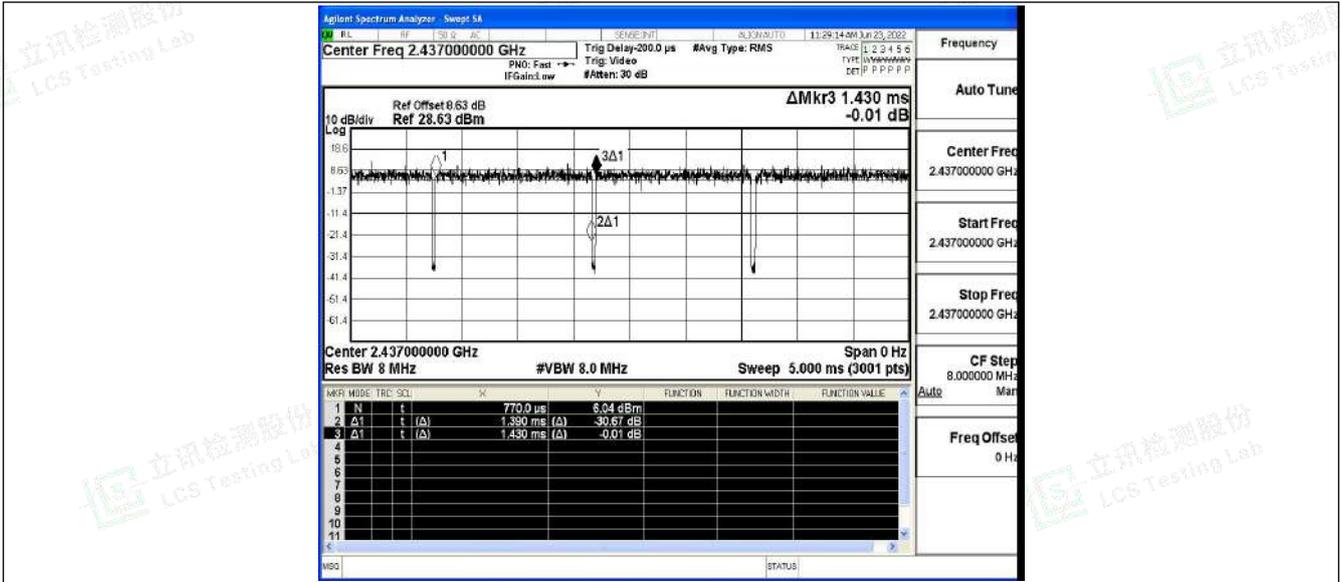


11G\_Ant1\_2412

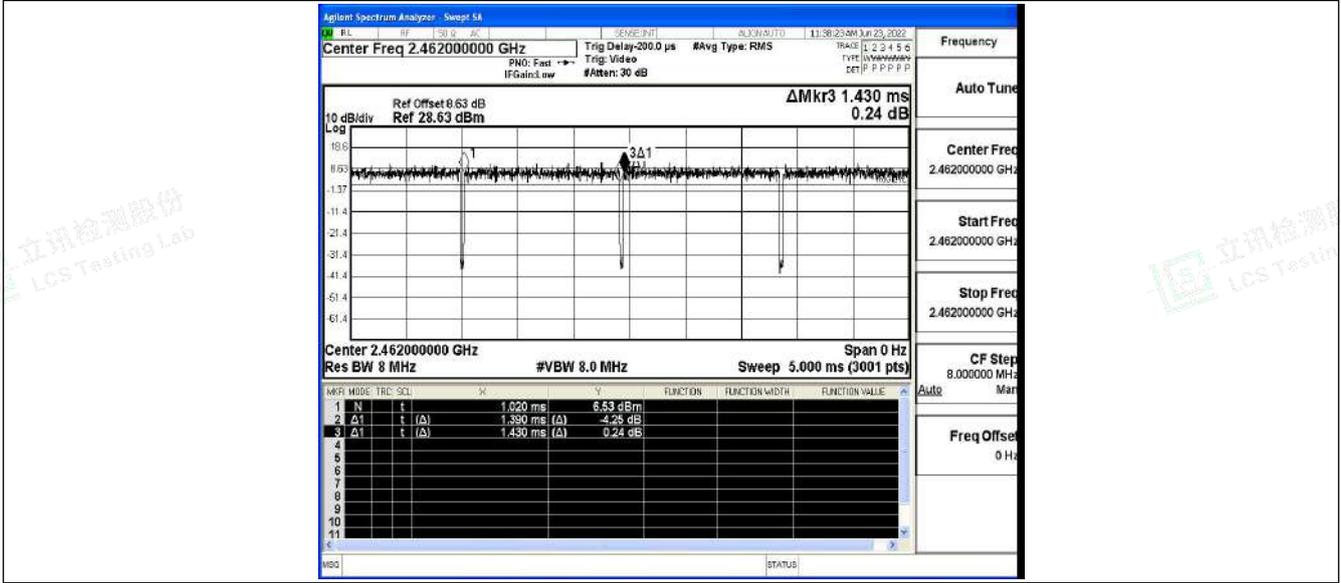


11G\_Ant1\_2437



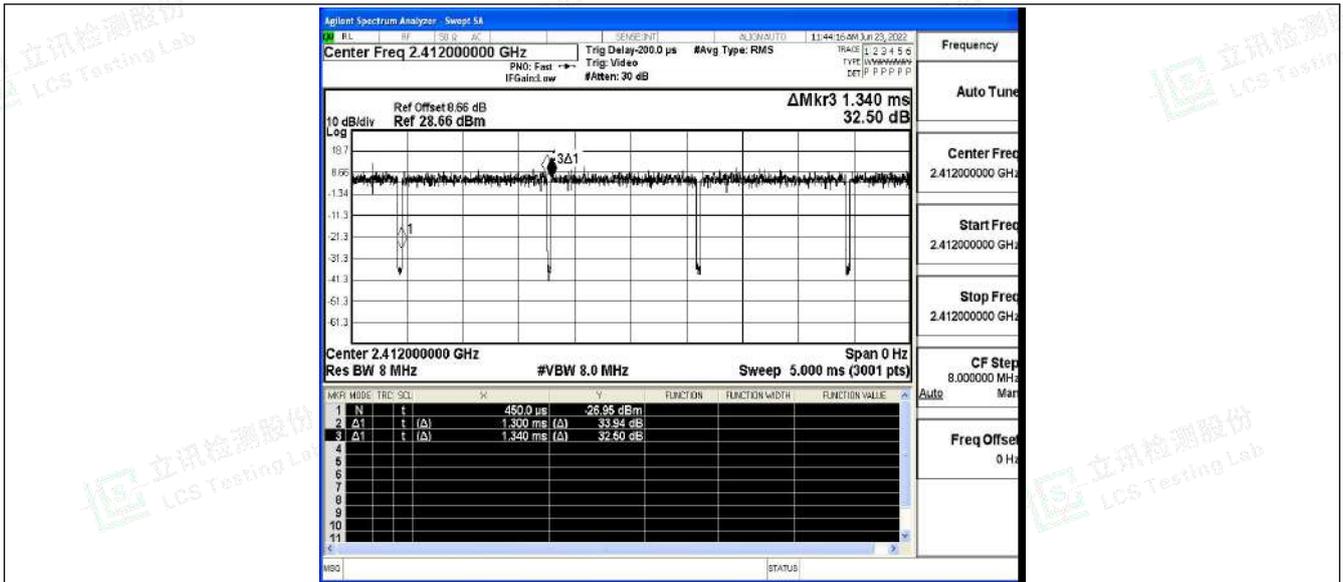


11G\_Ant1\_2462

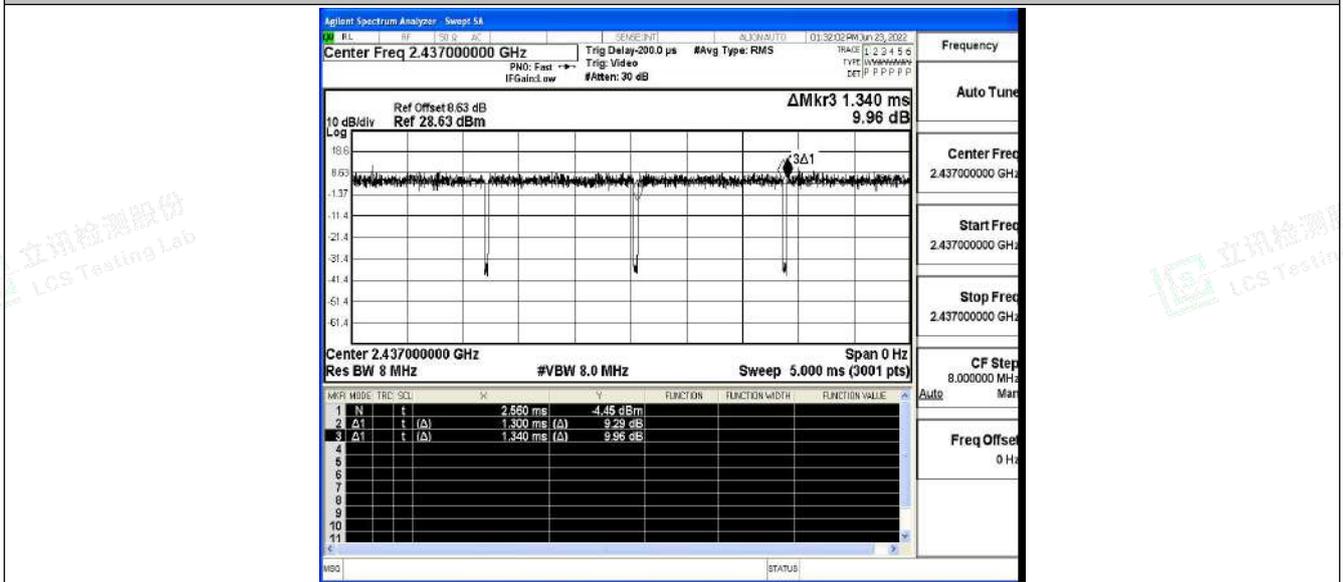


11N20SISO\_Ant1\_2412



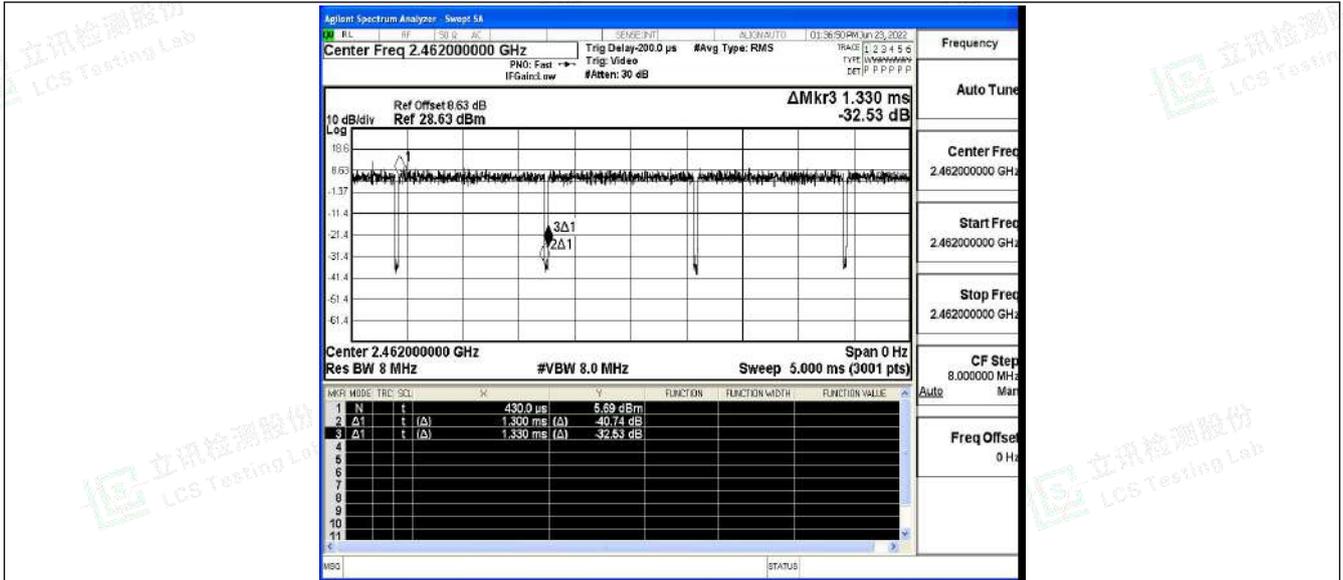


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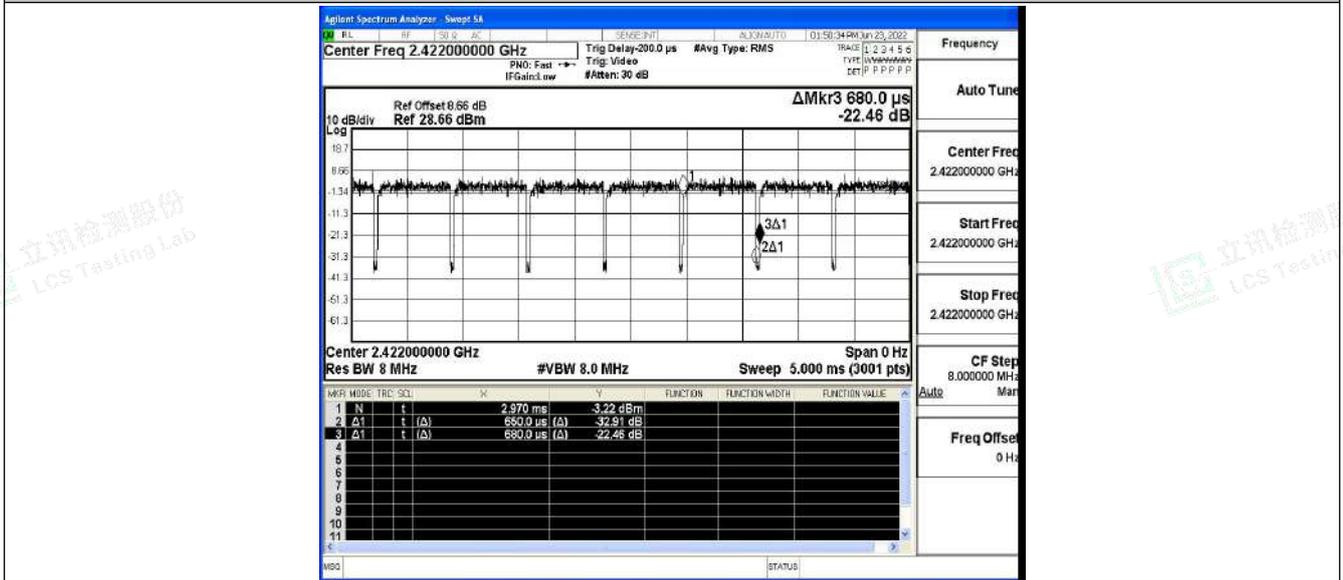


11N20SISO\_Ant1\_2462



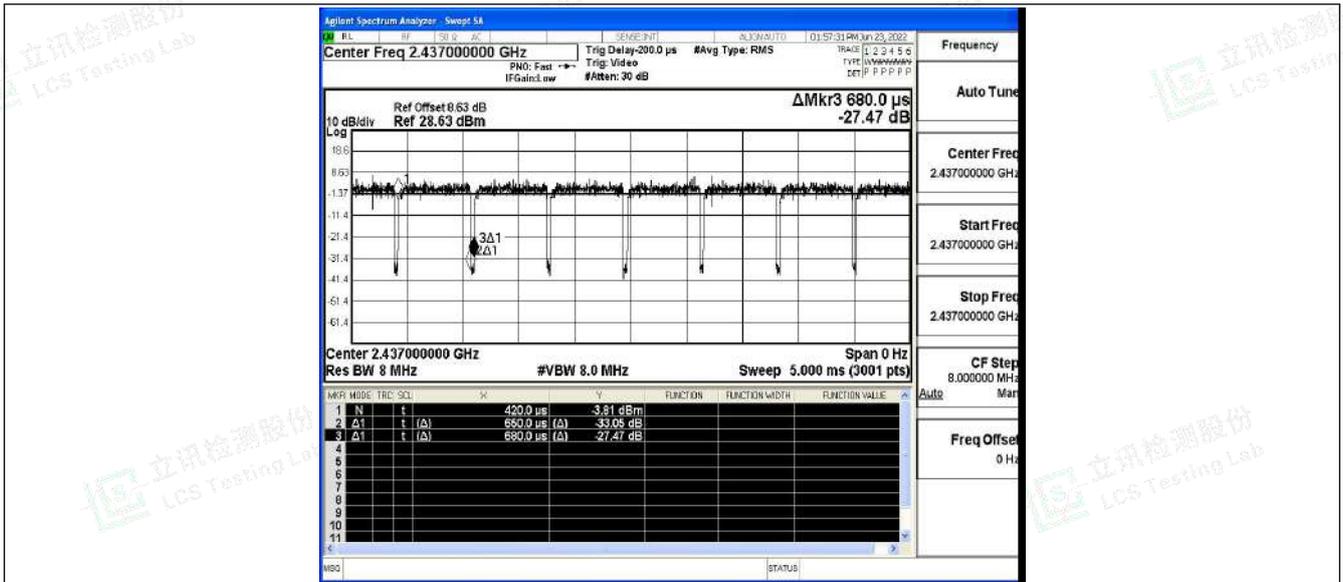


11N40SISO\_Ant1\_2422

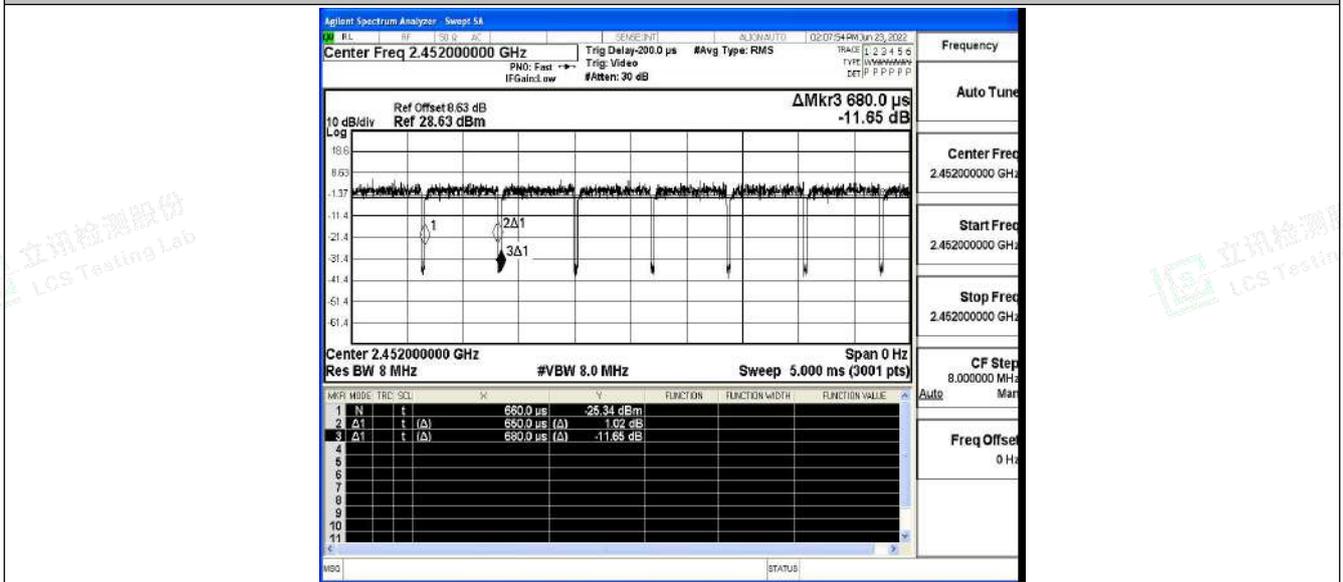


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452





### B.7 Emissions in Restricted Bands

#### Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.09	≤-41.20	37.11	≤54	PASS
				AV	2389.960	-54.02	≤-41.20	41.18	≤54	PASS
				AV	2390.000	-54.02	≤-41.20	41.18	≤54	PASS
				Peak	2310.000	-47.87	≤-21.20	47.33	≤74	PASS
				Peak	2389.570	-43.4	≤-21.20	51.80	≤74	PASS
				Peak	2390.000	-44.21	≤-21.20	50.99	≤74	PASS
		High	2462	AV	2483.500	-51.34	≤-41.20	43.86	≤54	PASS
				AV	2483.560	-51.53	≤-41.20	43.67	≤54	PASS
				AV	2500.000	-56.07	≤-41.20	39.13	≤54	PASS
				Peak	2483.500	-43.17	≤-21.20	52.03	≤74	PASS
				Peak	2483.890	-42.4	≤-21.20	52.80	≤74	PASS
				Peak	2500.000	-46.42	≤-21.20	48.78	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-57.78	≤-41.20	37.42	≤54	PASS
				AV	2389.960	-52.54	≤-41.20	42.66	≤54	PASS
				AV	2390.000	-52.54	≤-41.20	42.66	≤54	PASS
				Peak	2310.000	-47.57	≤-21.20	47.63	≤74	PASS
				Peak	2389.830	-37.07	≤-21.20	58.13	≤74	PASS
				Peak	2390.000	-38.05	≤-21.20	57.15	≤74	PASS
		High	2462	AV	2483.500	-49.92	≤-41.20	45.28	≤54	PASS
				AV	2483.560	-50.01	≤-41.20	45.19	≤54	PASS
				AV	2500.000	-55.33	≤-41.20	39.87	≤54	PASS
				Peak	2483.500	-32.72	≤-21.20	62.48	≤74	PASS
				Peak	2483.560	-29.32	≤-21.20	65.88	≤74	PASS
				Peak	2500.000	-45.39	≤-21.20	49.81	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-58.1	≤-41.20	37.10	≤54	PASS
				AV	2389.960	-52.95	≤-41.20	42.25	≤54	PASS
				AV	2390.000	-52.95	≤-41.20	42.25	≤54	PASS
				Peak	2310.000	-47.22	≤-21.20	47.98	≤74	PASS
				Peak	2389.830	-36.41	≤-21.20	58.79	≤74	PASS
				Peak	2390.000	-36.72	≤-21.20	58.48	≤74	PASS
		High	2462	AV	2483.500	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2483.890	-50.38	≤-41.20	44.82	≤54	PASS
				AV	2500.000	-55.68	≤-41.20	39.52	≤54	PASS
				Peak	2483.500	-33.42	≤-21.20	61.78	≤74	PASS
				Peak	2483.670	-33.49	≤-21.20	61.71	≤74	PASS



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 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



11N40SI SO	Ant1	Low	2422	Peak	2500.000	-45.59	≤-21.20	49.61	≤74	PASS
				AV	2310.000	-57.67	≤-41.20	37.53	≤54	PASS
				AV	2389.960	-50.55	≤-41.20	44.65	≤54	PASS
				AV	2390.000	-50.55	≤-41.20	44.65	≤54	PASS
				Peak	2310.000	-48.37	≤-21.20	46.83	≤74	PASS
				Peak	2388.660	-33.99	≤-21.20	61.21	≤74	PASS
		High	2452	AV	2483.500	-52.59	≤-41.20	42.61	≤54	PASS
				AV	2483.560	-52.62	≤-41.20	42.58	≤54	PASS
				AV	2500.000	-55.86	≤-41.20	39.34	≤54	PASS
				Peak	2483.500	-32.56	≤-21.20	62.64	≤74	PASS
				Peak	2484.660	-31.61	≤-21.20	63.59	≤74	PASS
				Peak	2500.000	-41.13	≤-21.20	54.07	≤74	PASS

Note:

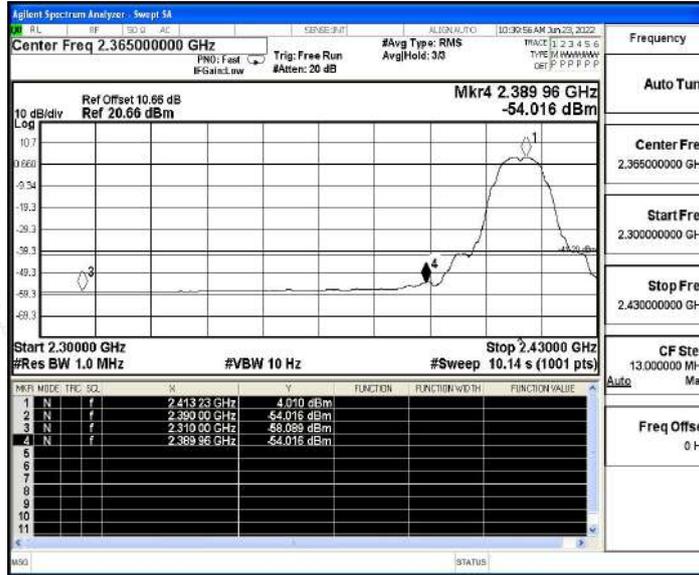
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



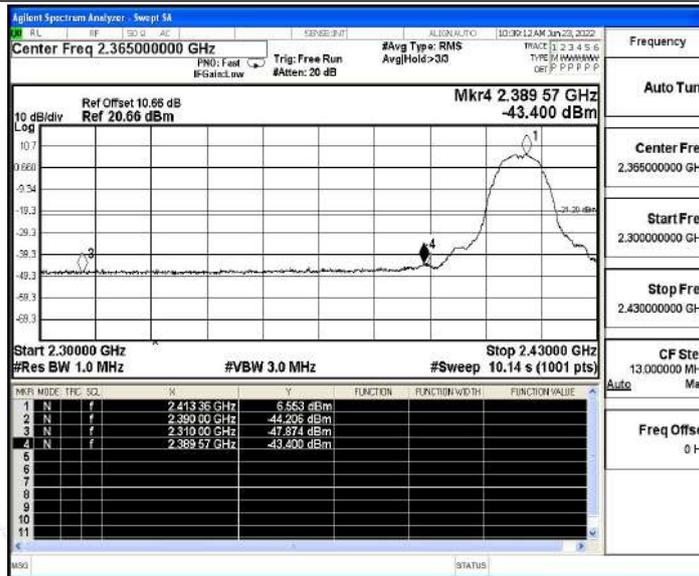


### Test Graphs

#### 11B\_Ant1\_Low\_2412\_AV

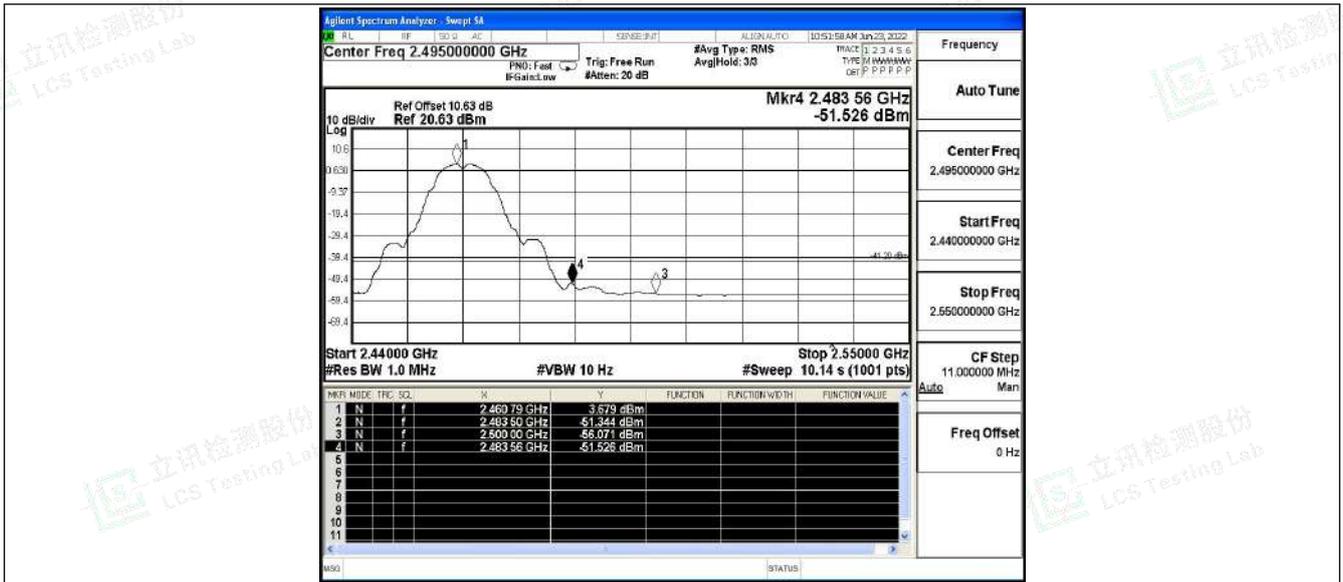


#### 11B\_Ant1\_Low\_2412\_Peak

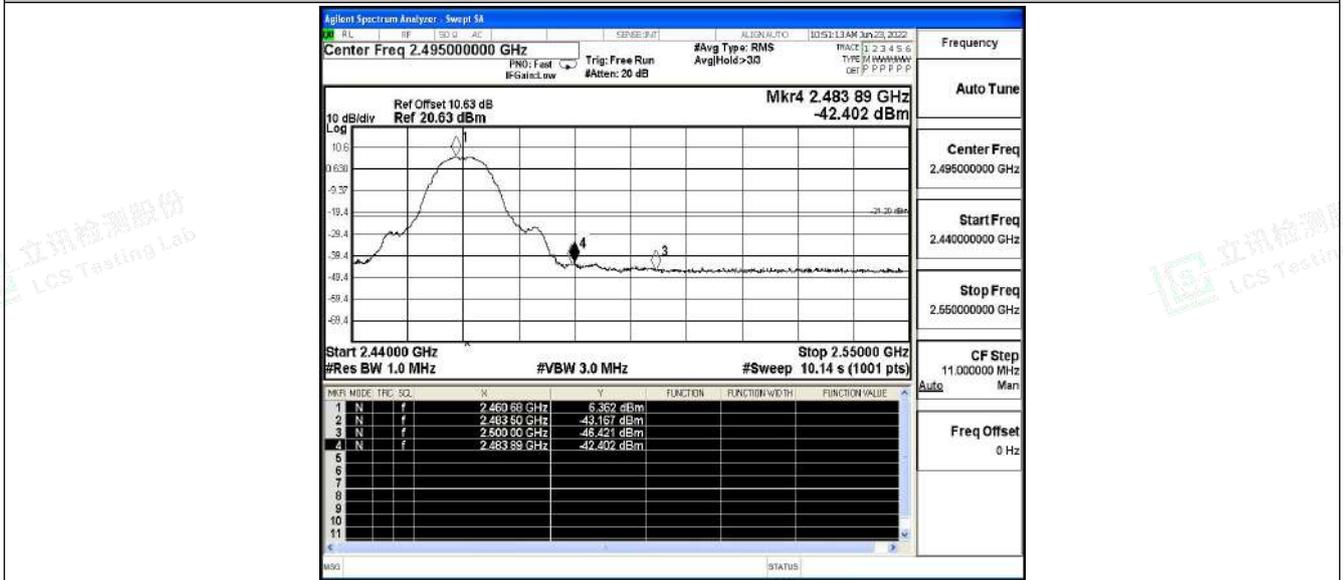


#### 11B\_Ant1\_High\_2462\_AV



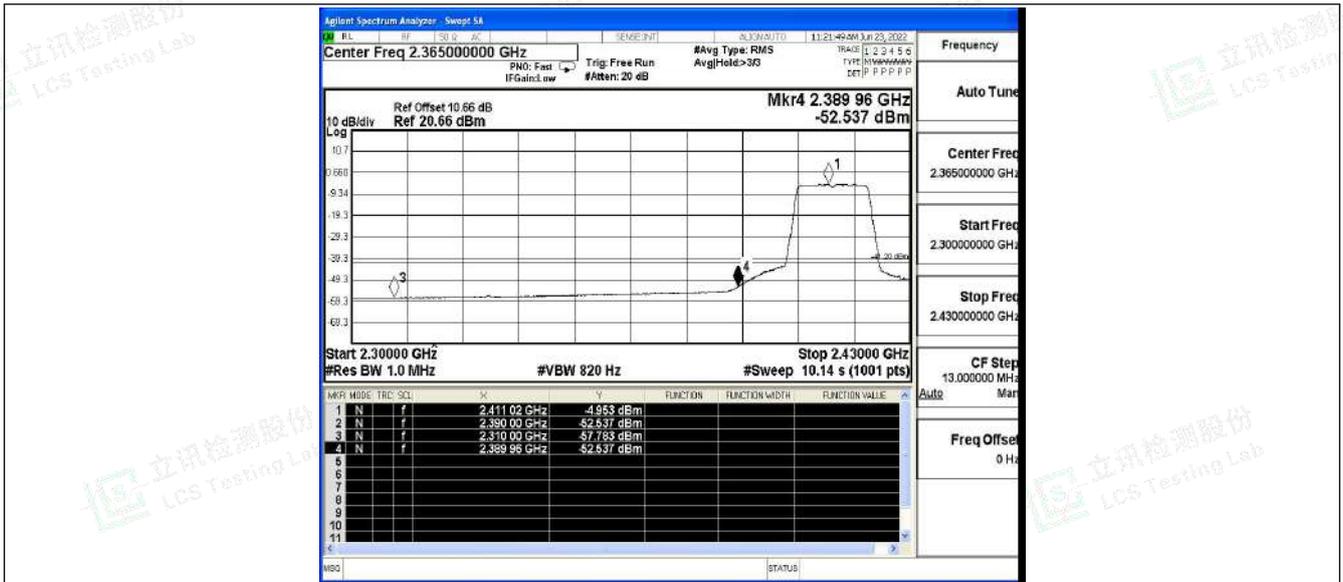


11B\_Ant1\_High\_2462\_Peak

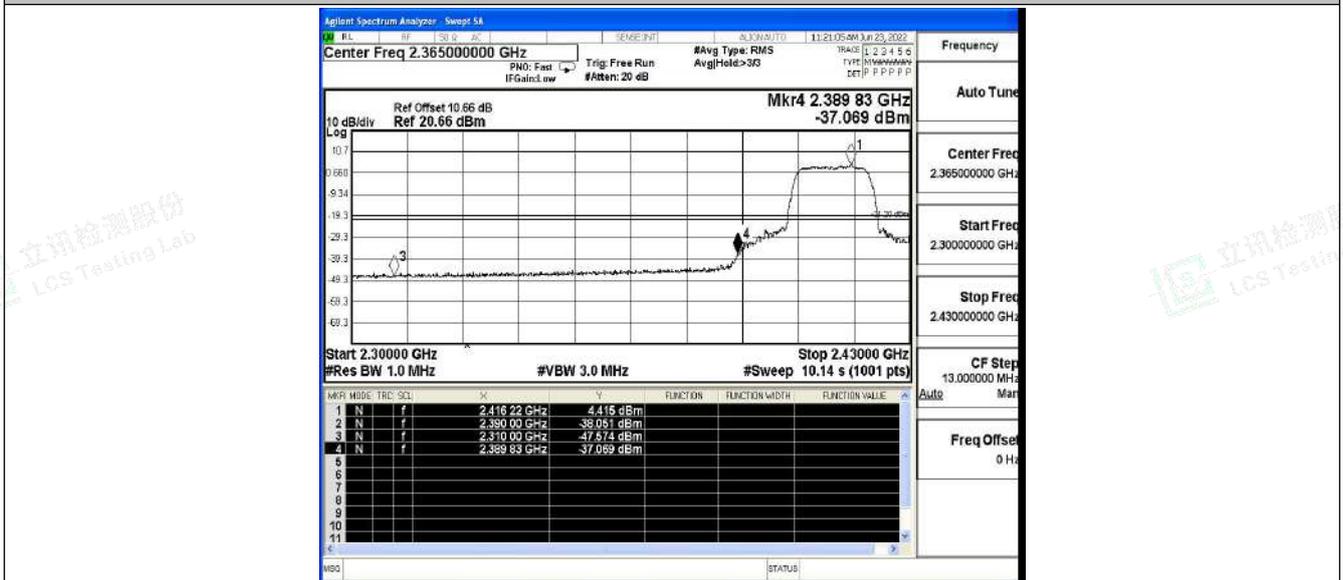


11G\_Ant1\_Low\_2412\_AV



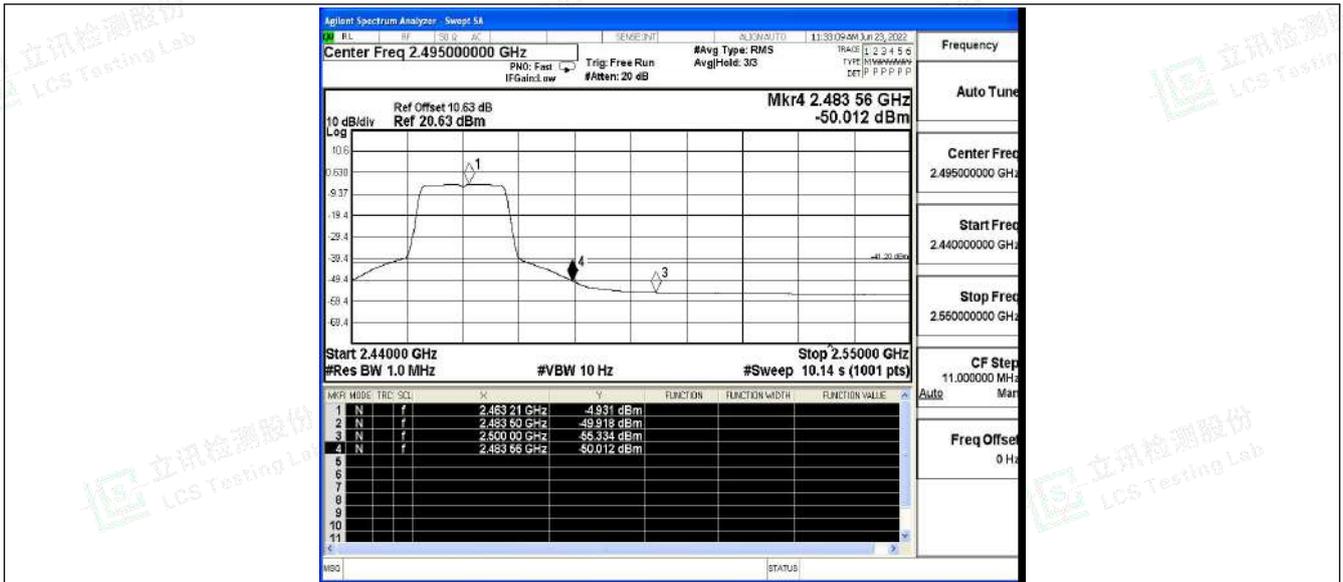


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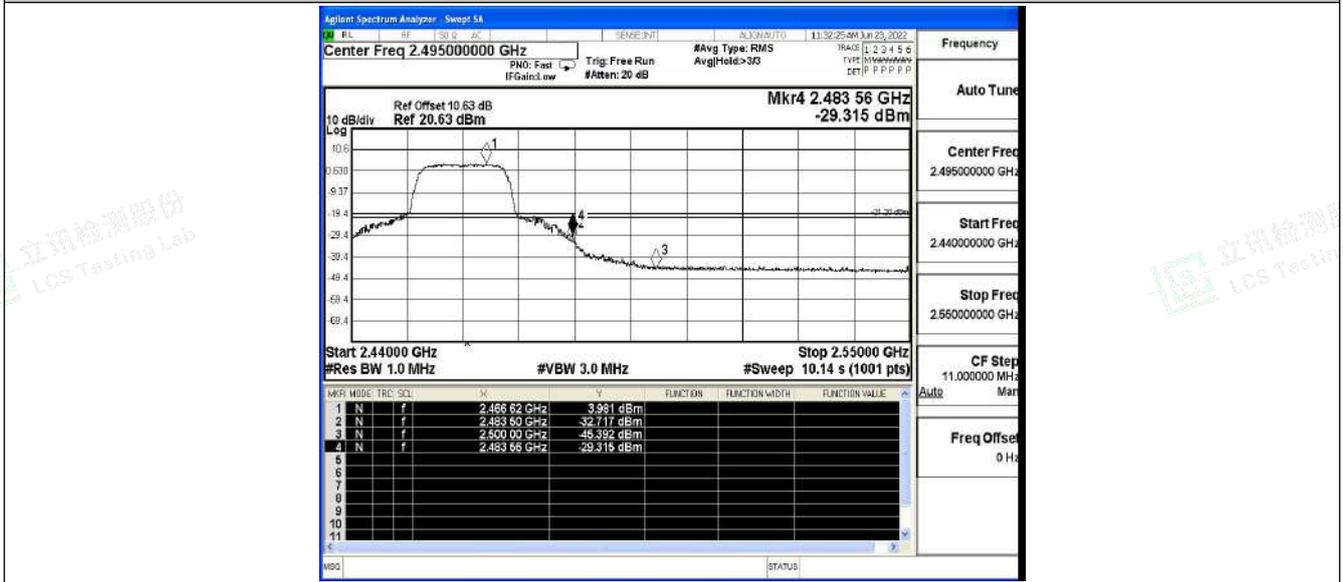


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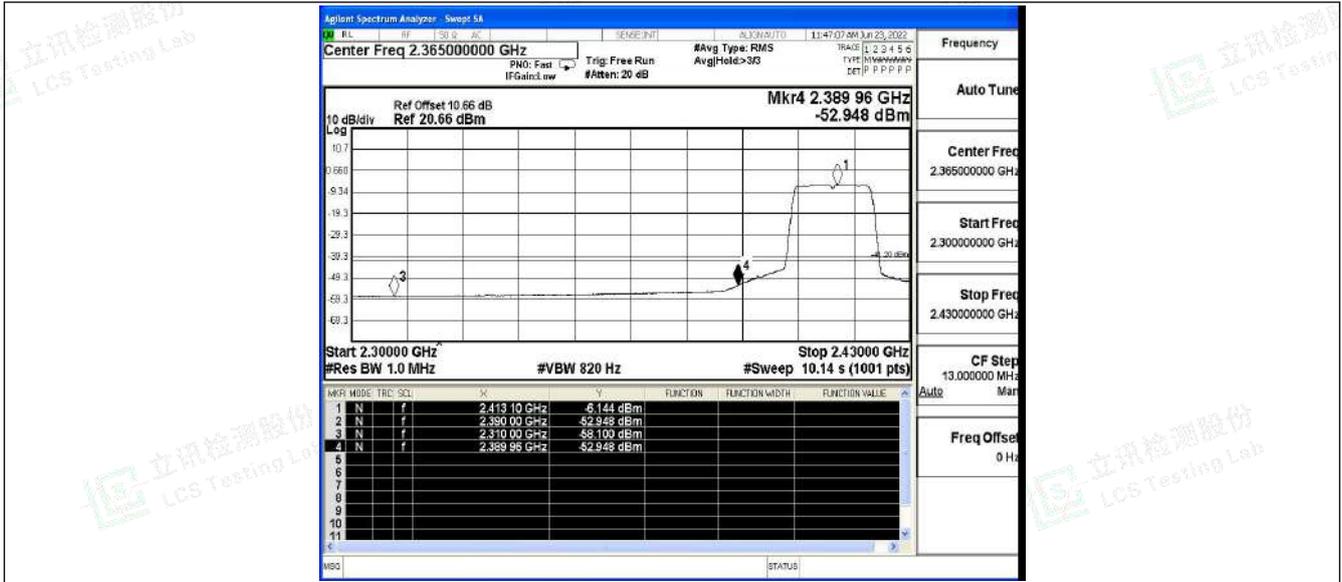


11G\_Ant1\_High\_2462\_Peak

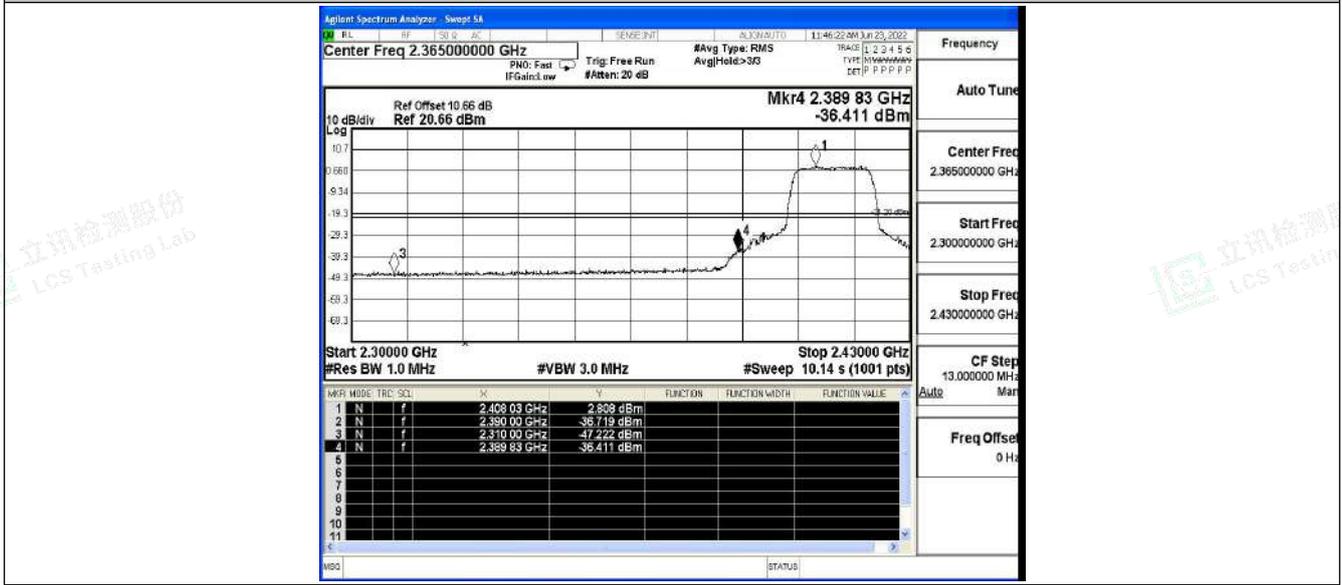


11N20SISO\_Ant1\_Low\_2412\_AV



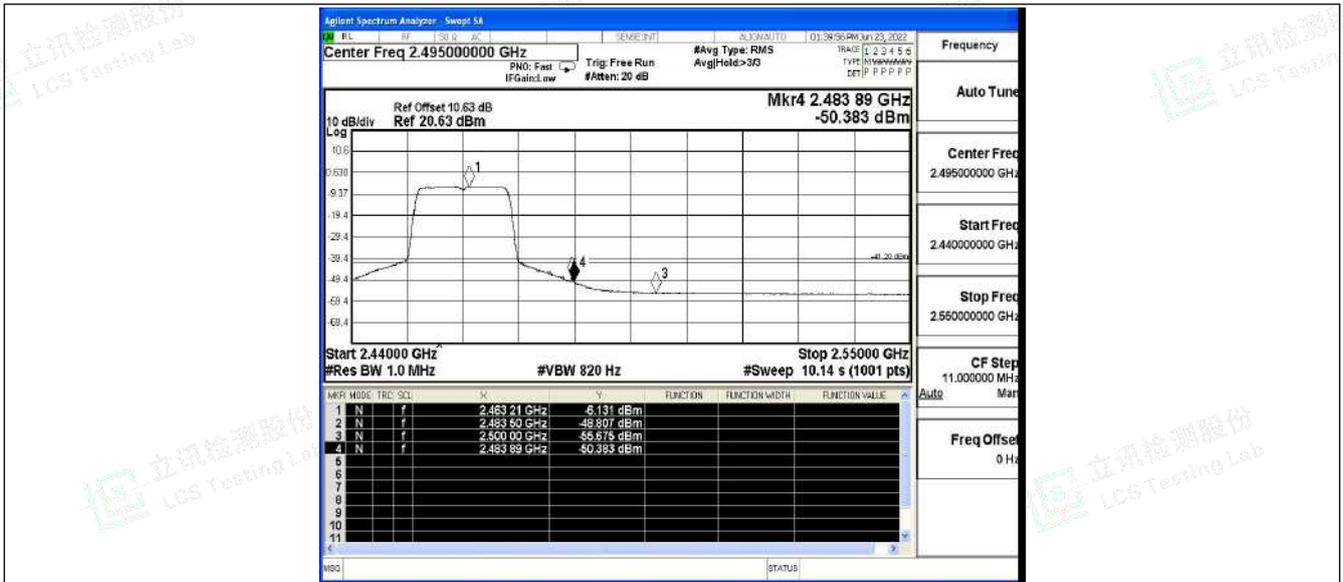


11N20SISO\_Ant1\_Low\_2412\_Peak

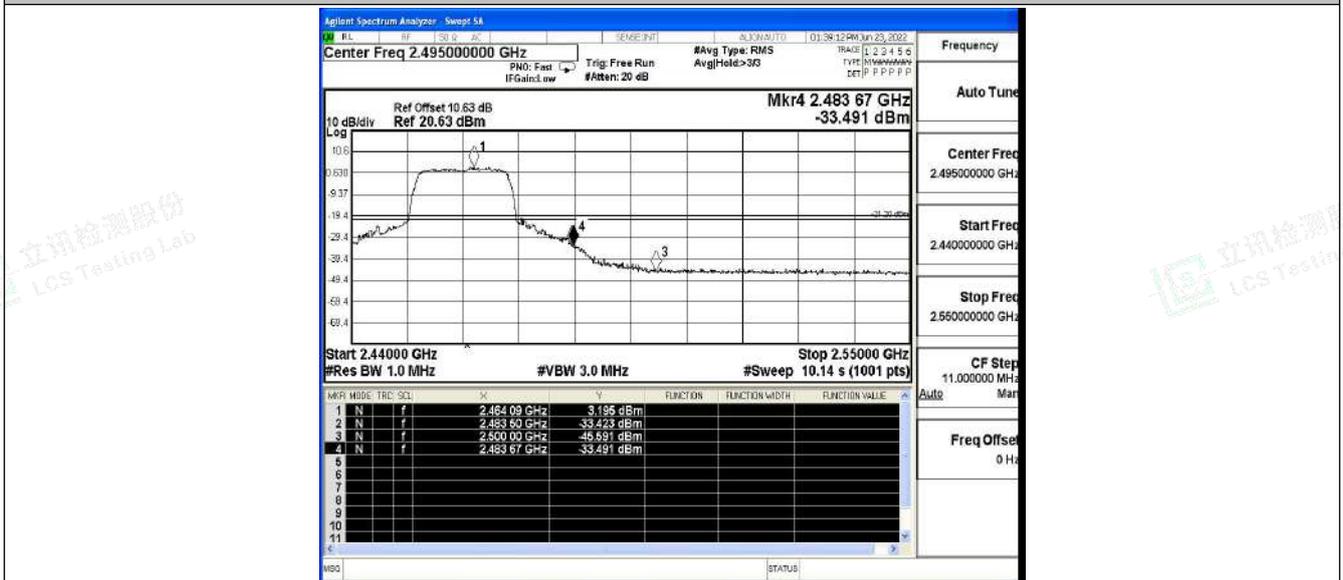


11N20SISO\_Ant1\_High\_2462\_AV



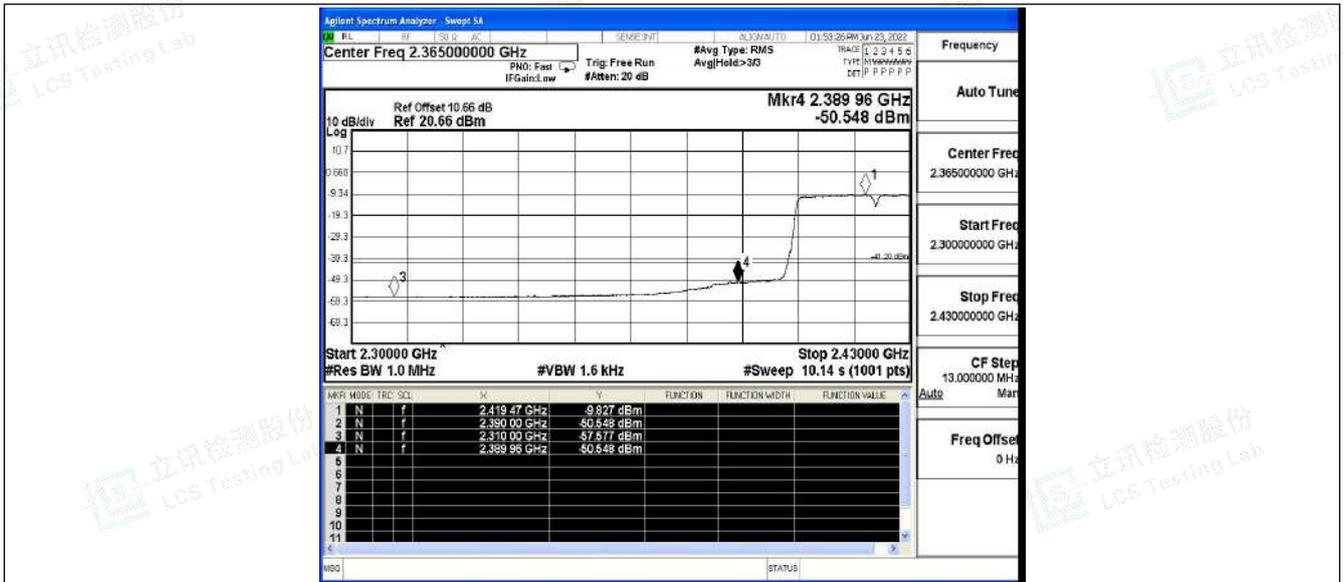


11N20SISO\_Ant1\_High\_2462\_Peak

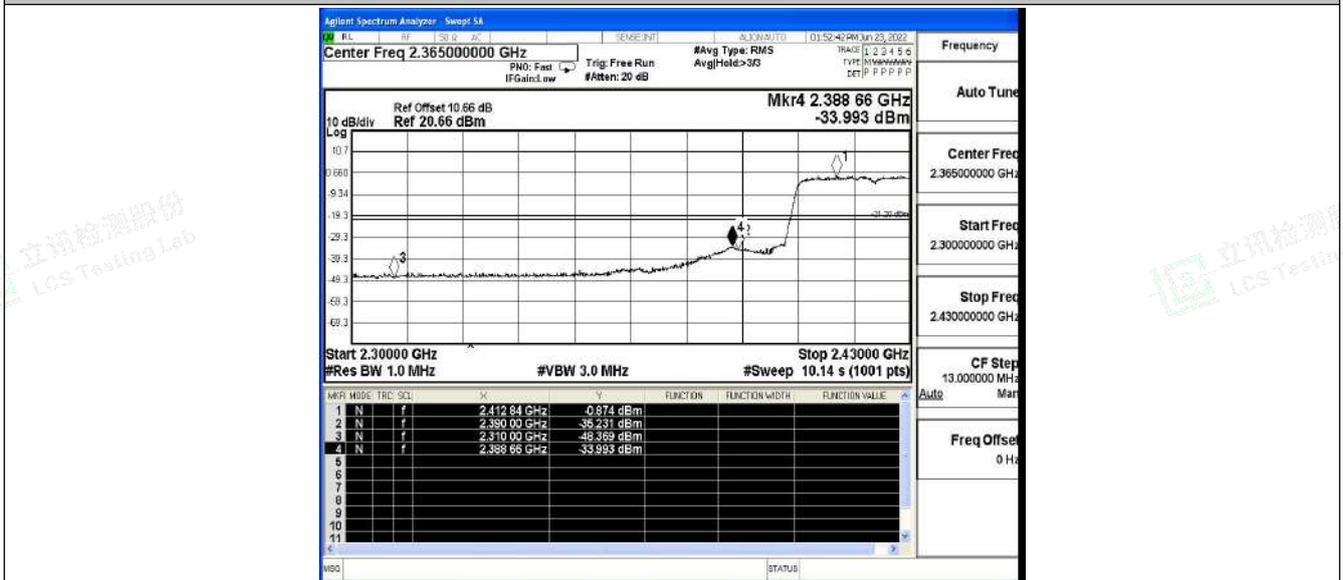


11N40SISO\_Ant1\_Low\_2422\_AV



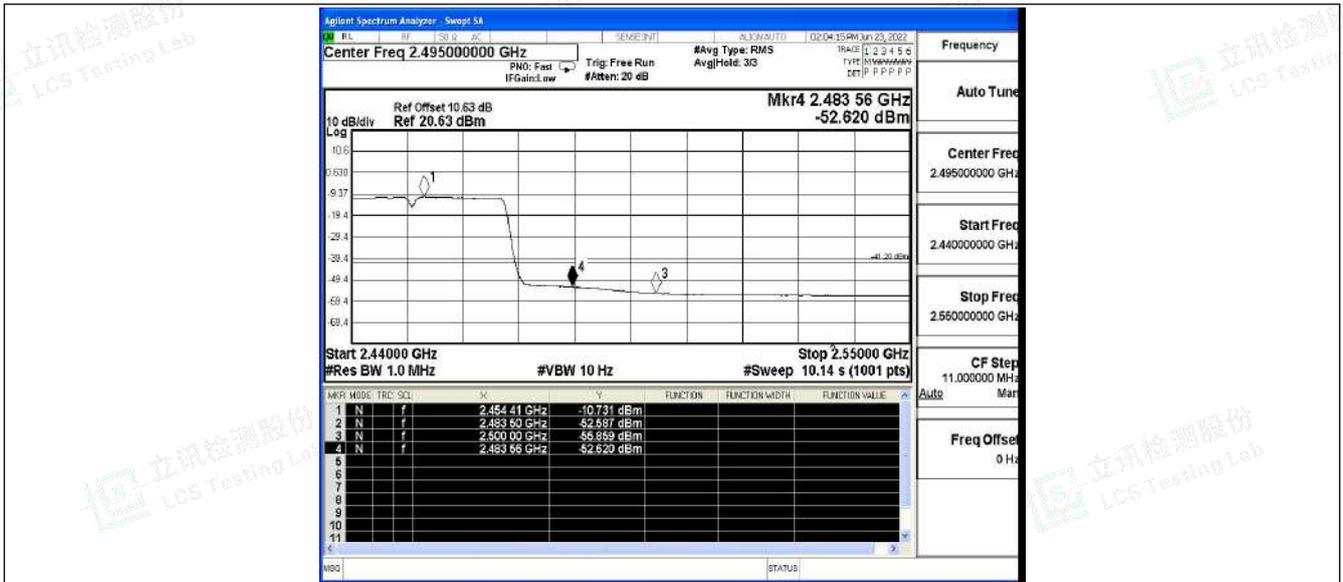


11N40SISO\_Ant1\_Low\_2422\_Peak



11N40SISO\_Ant1\_High\_2452\_AV





11N40SISO\_Ant1\_High\_2452\_Peak

