



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TABLET PC

Test Model: PicassoTab X

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>mening su</i> Mening Su
Supervised by:	<i>Ling. Zhu</i> Ling Zhu





B.1 DTS Bandwidth

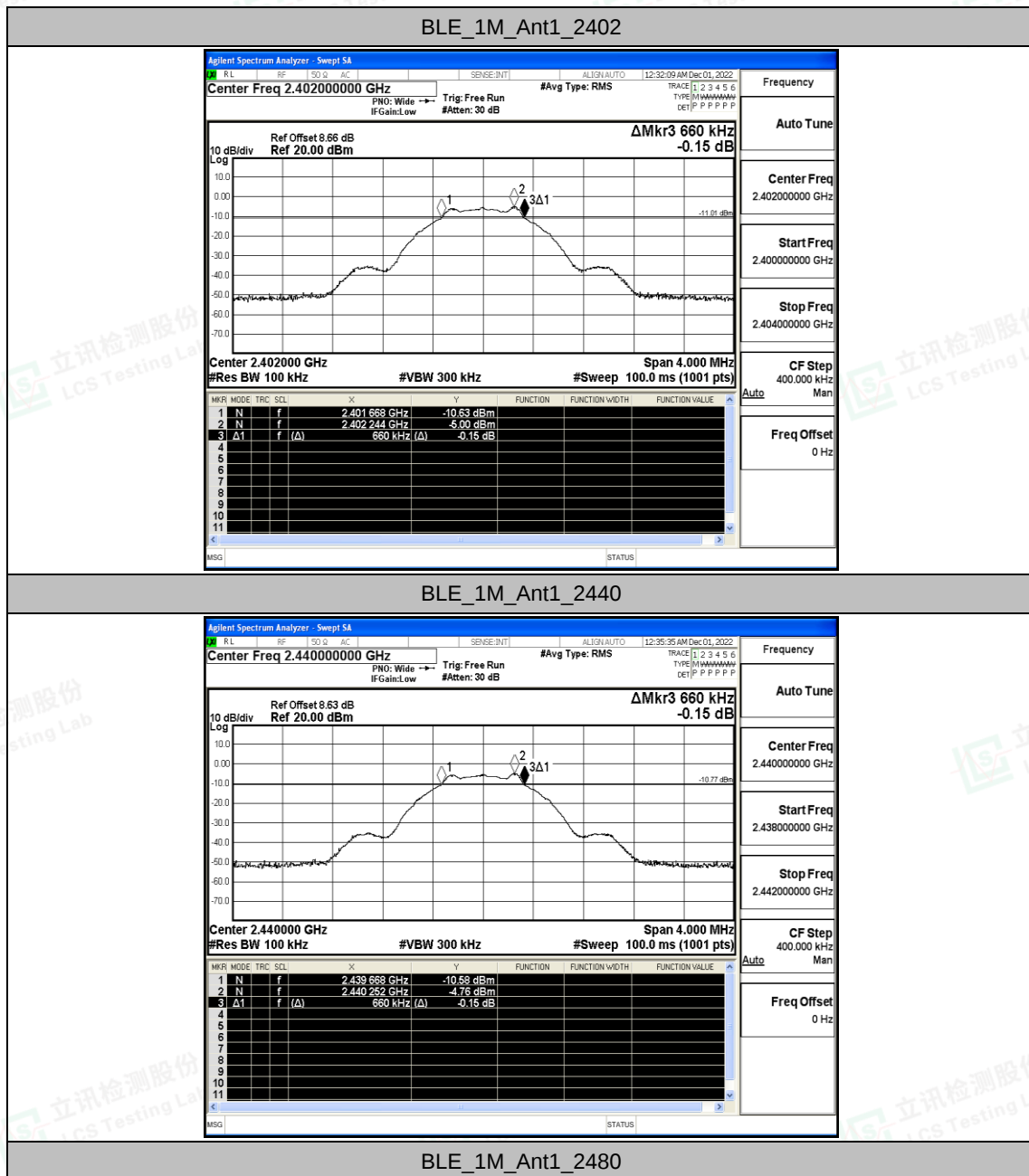
Test Result

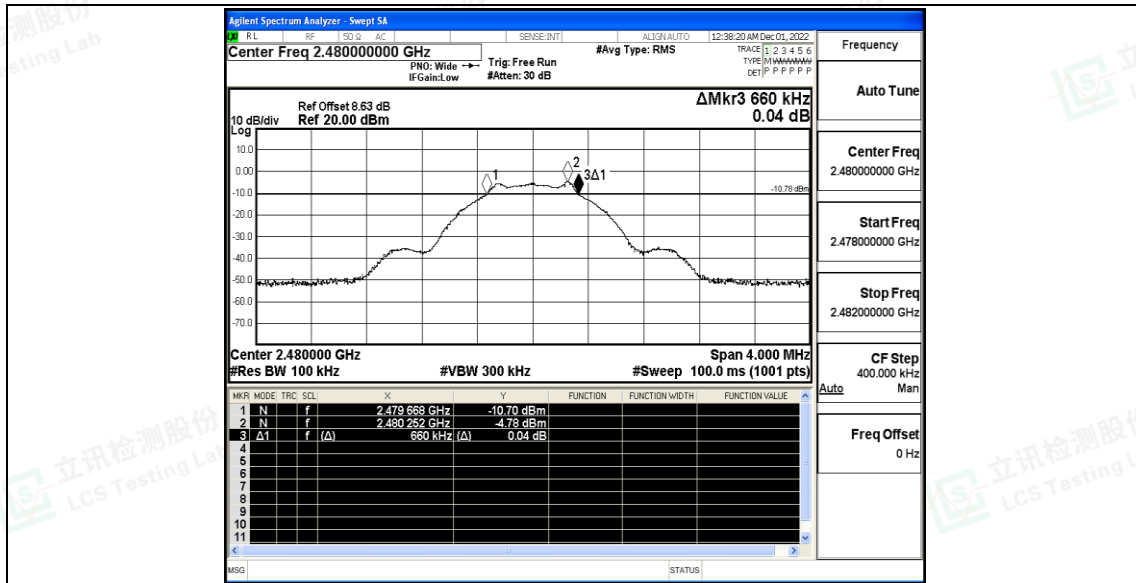
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.668	2402.328	0.5	PASS
		2440	0.660	2439.668	2440.328	0.5	PASS
		2480	0.660	2479.668	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.424	2402.576	0.5	PASS
		2440	1.156	2439.424	2440.580	0.5	PASS
		2480	1.156	2479.424	2480.580	0.5	PASS



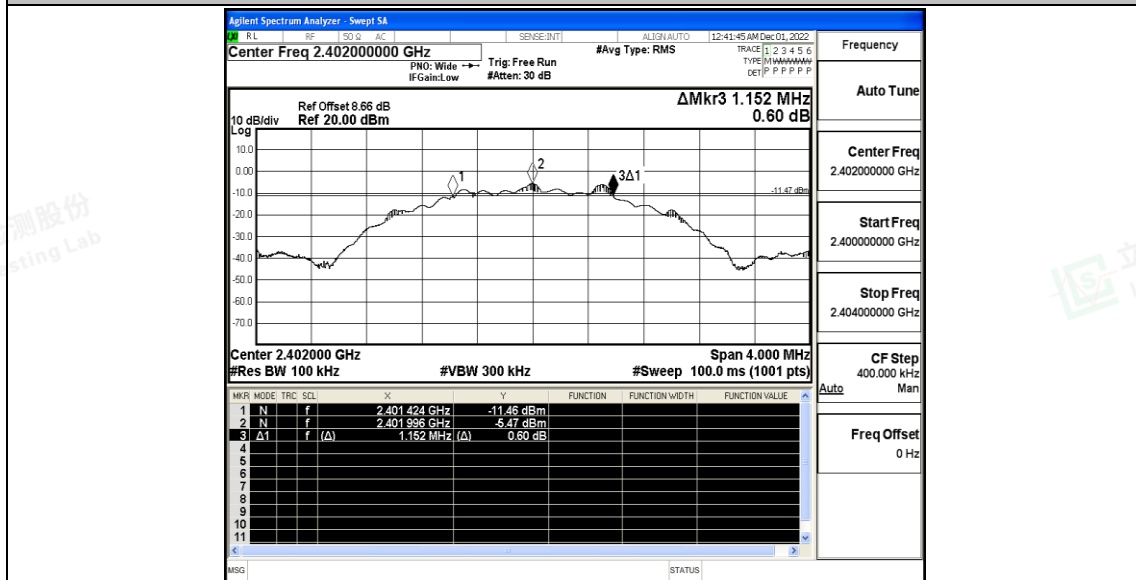


Test Graphs



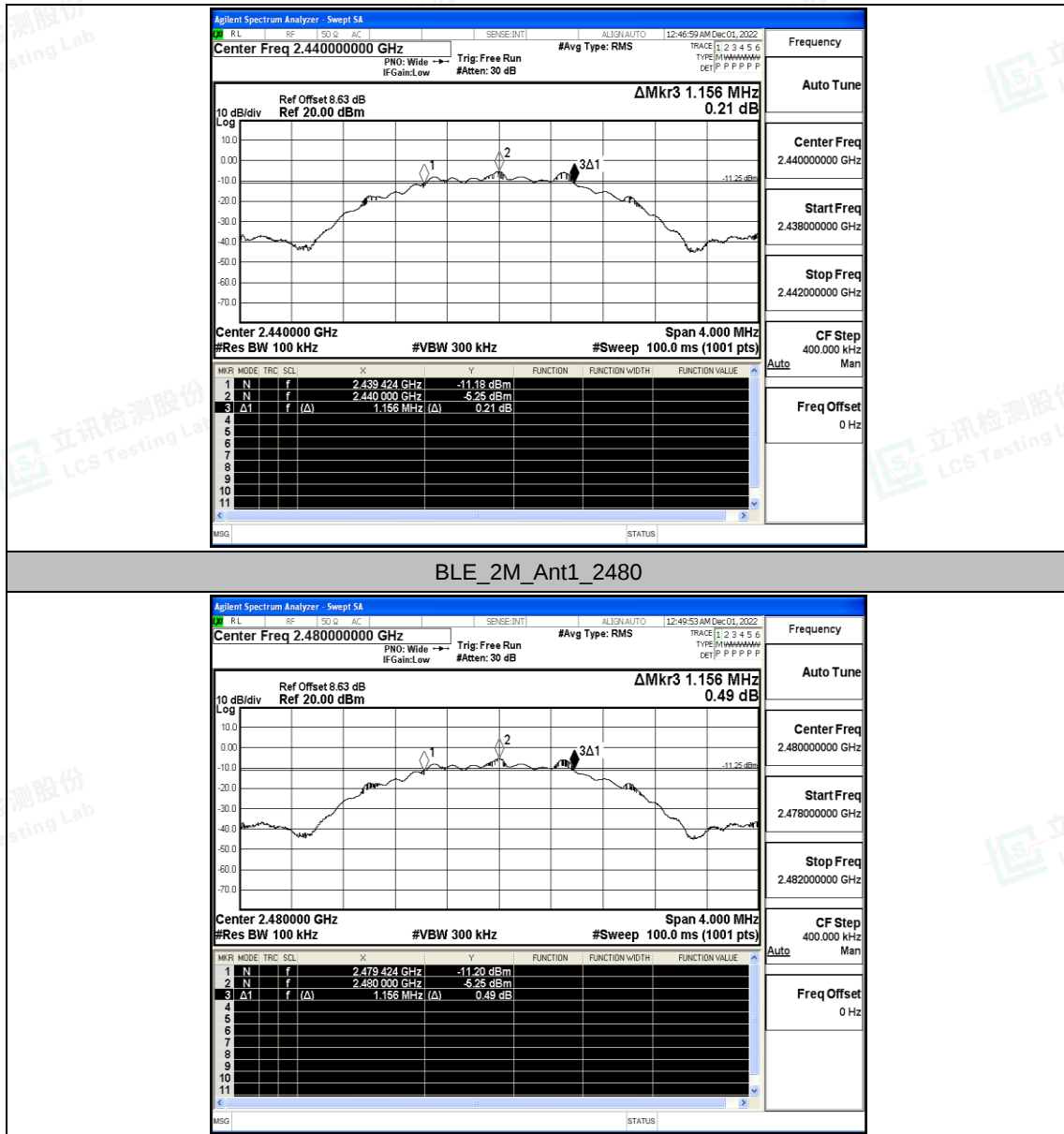


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440







B.2 Maximum conducted output power

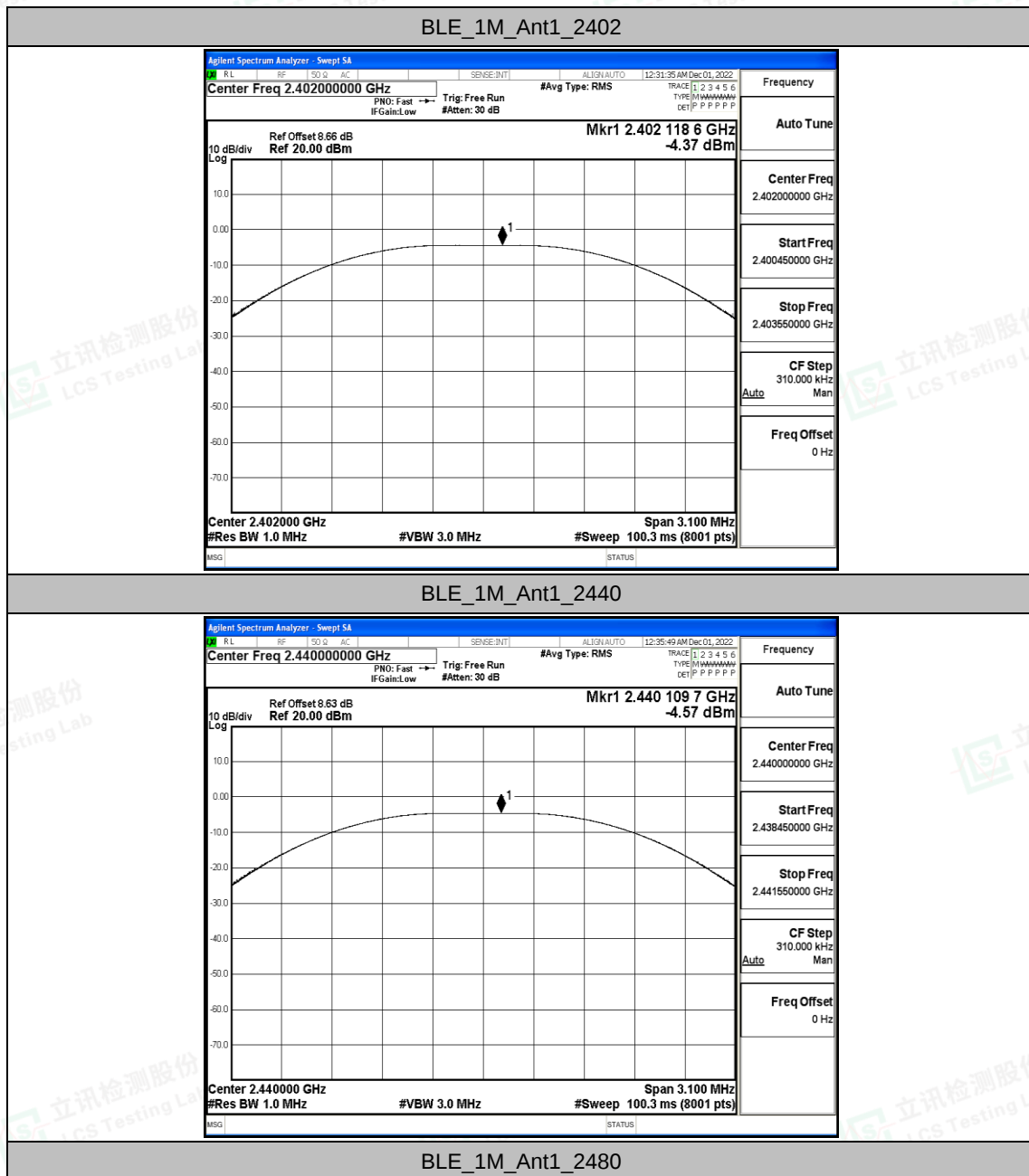
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.37	≤30	PASS
		2440	-4.57	≤30	PASS
		2480	-4.57	≤30	PASS
BLE_2M	Ant1	2402	-4.7	≤30	PASS
		2440	-4.49	≤30	PASS
		2480	-4.47	≤30	PASS





Test Graphs

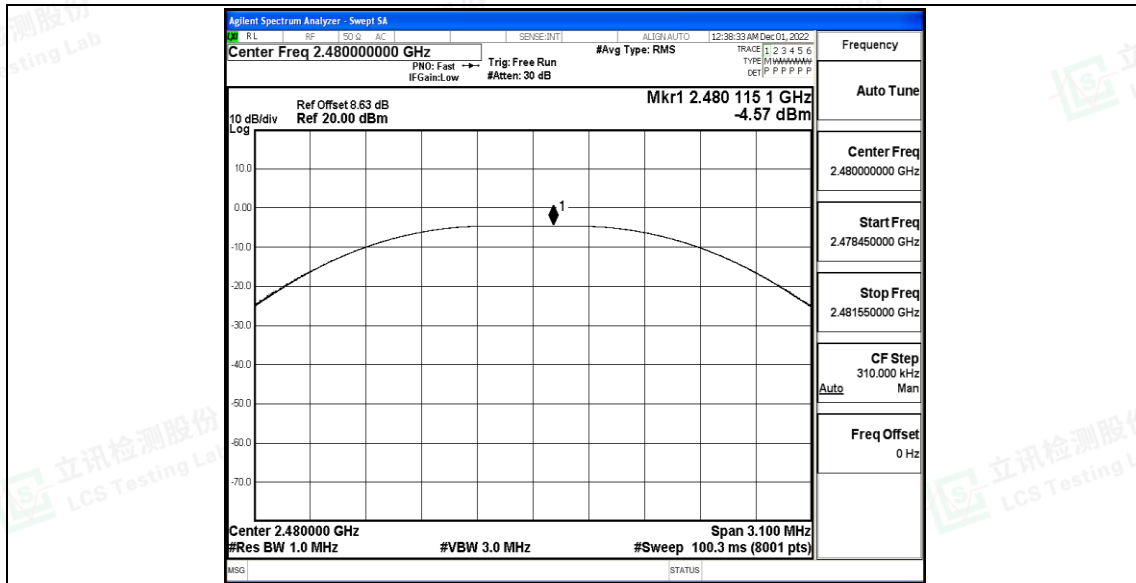


Shenzhen LCS Compliance Testing Laboratory Ltd.

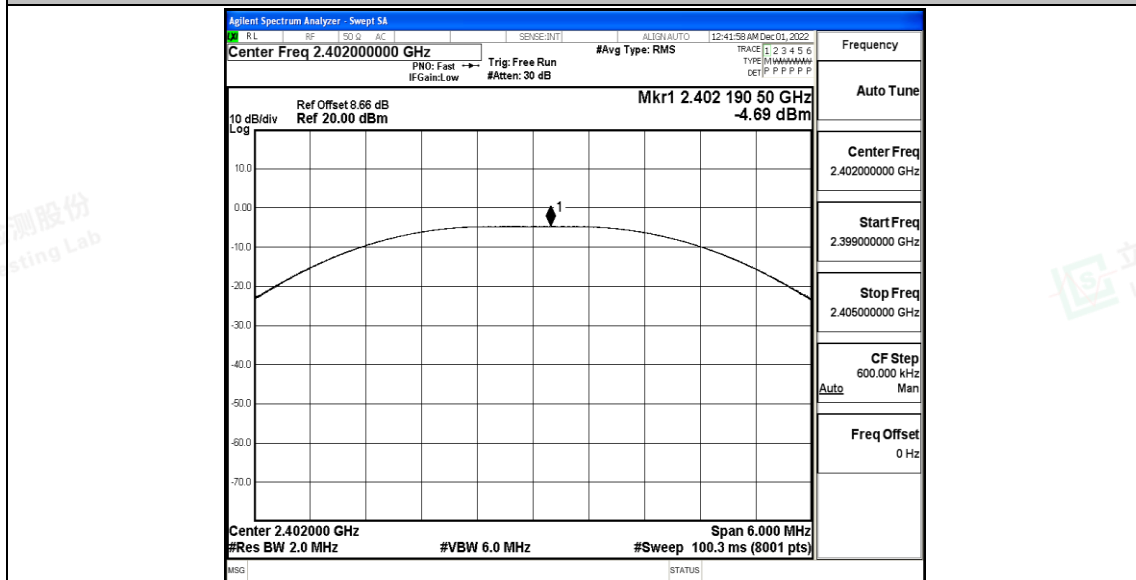
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

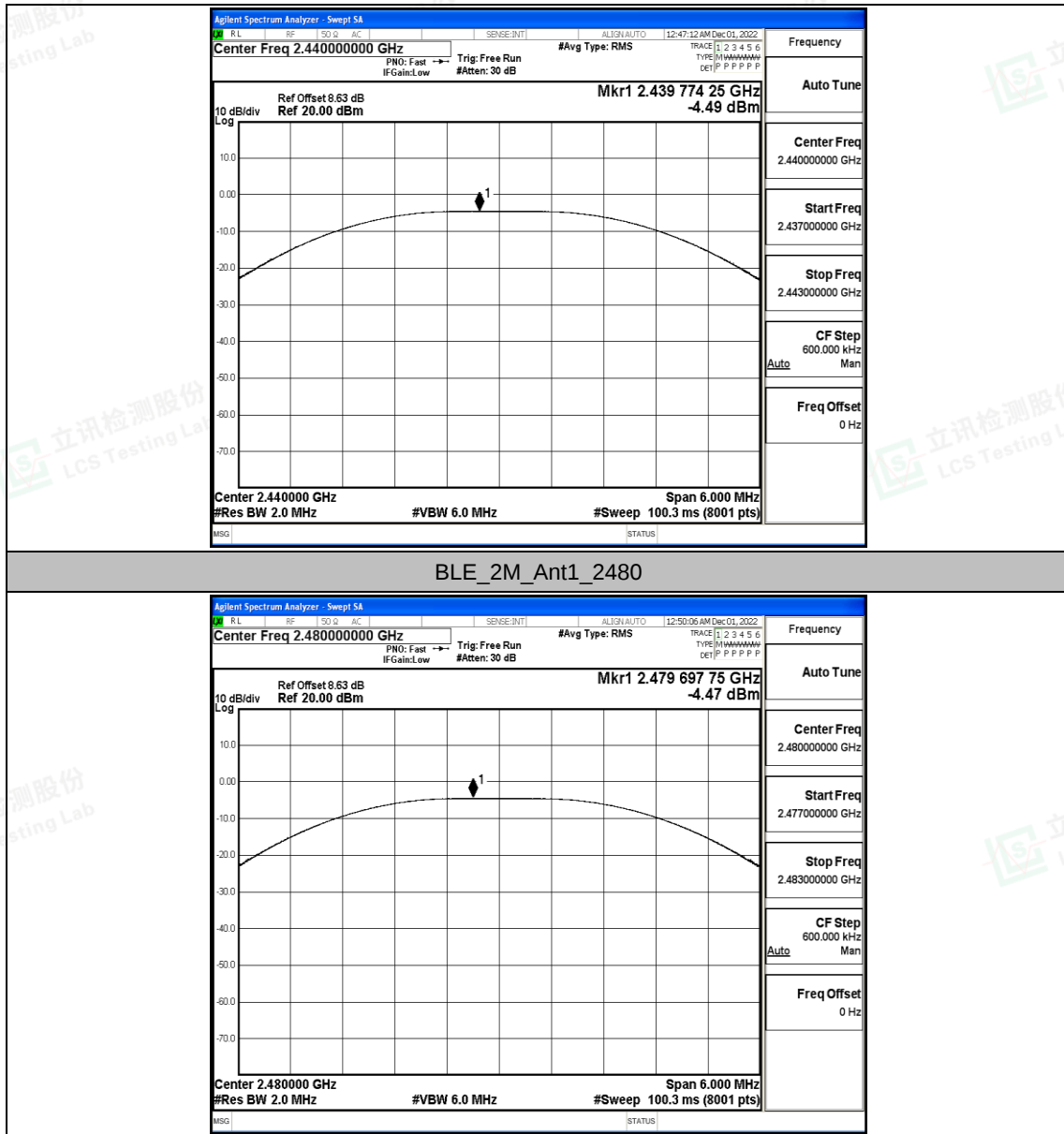


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440







B.3 Maximum power spectral density

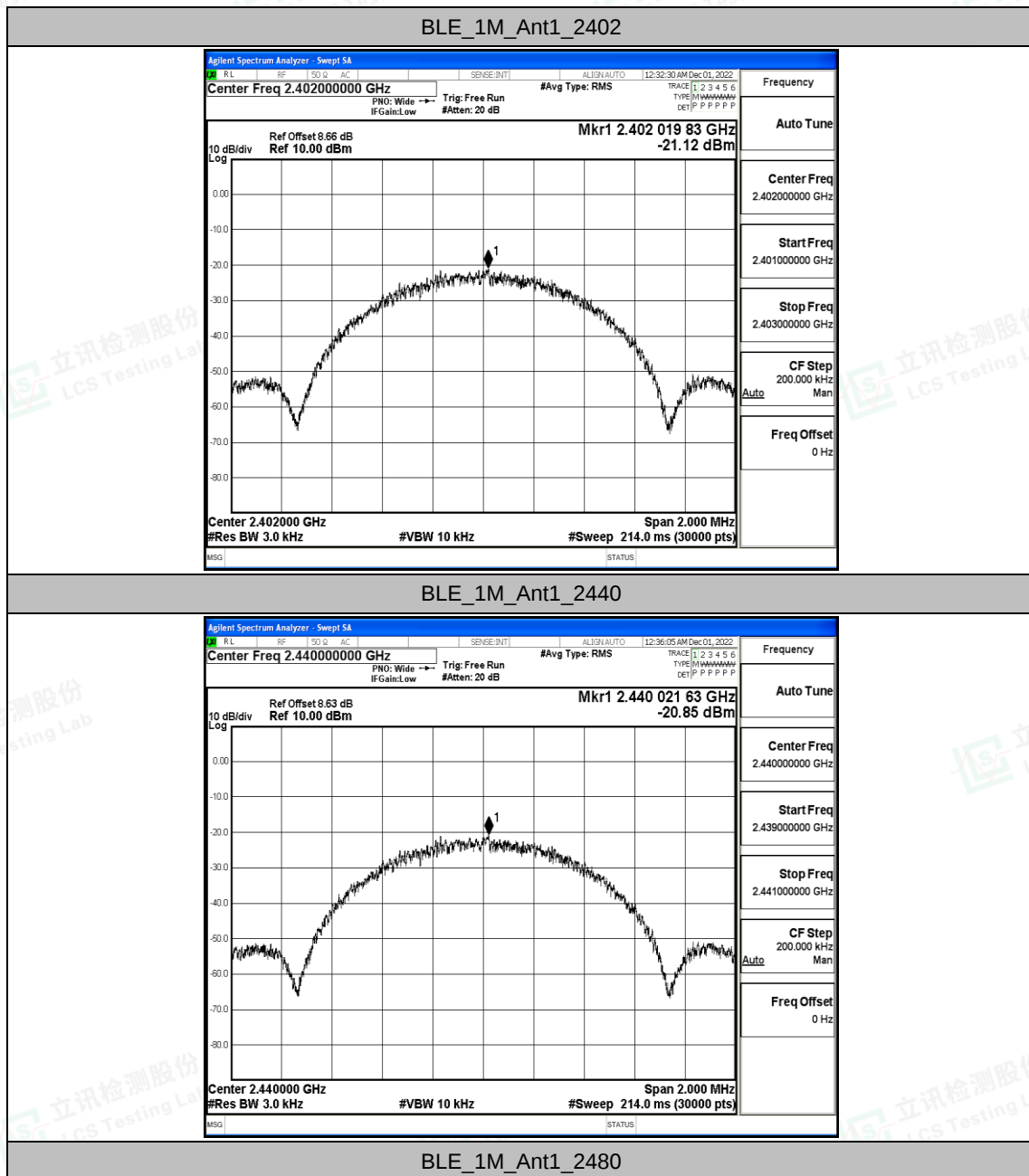
Test Result

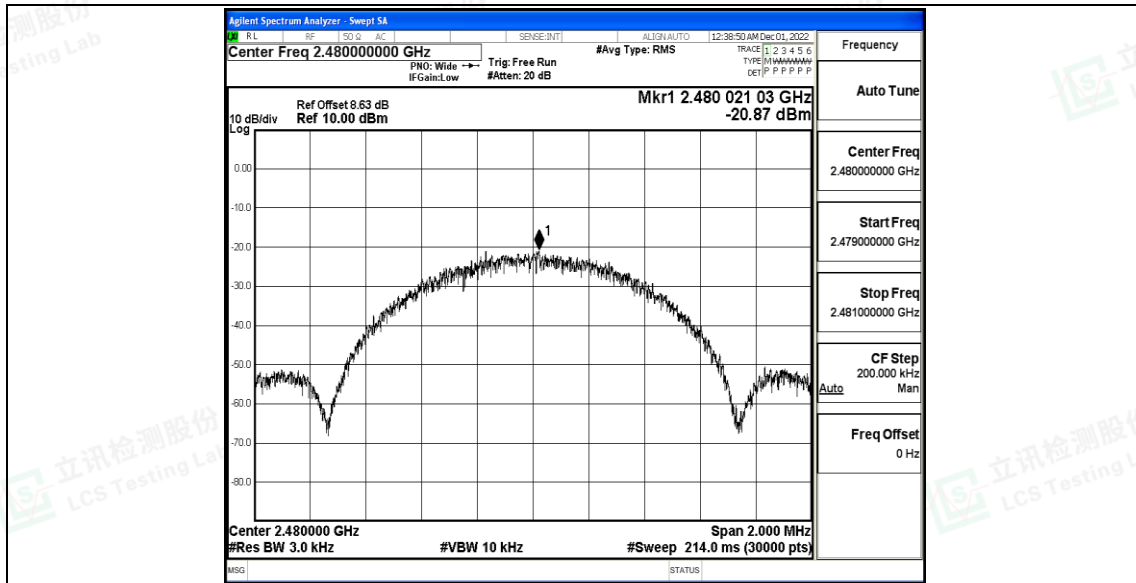
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.12	≤8.00	PASS
		2440	-20.85	≤8.00	PASS
		2480	-20.87	≤8.00	PASS
BLE_2M	Ant1	2402	-23.61	≤8.00	PASS
		2440	-23.32	≤8.00	PASS
		2480	-24.41	≤8.00	PASS



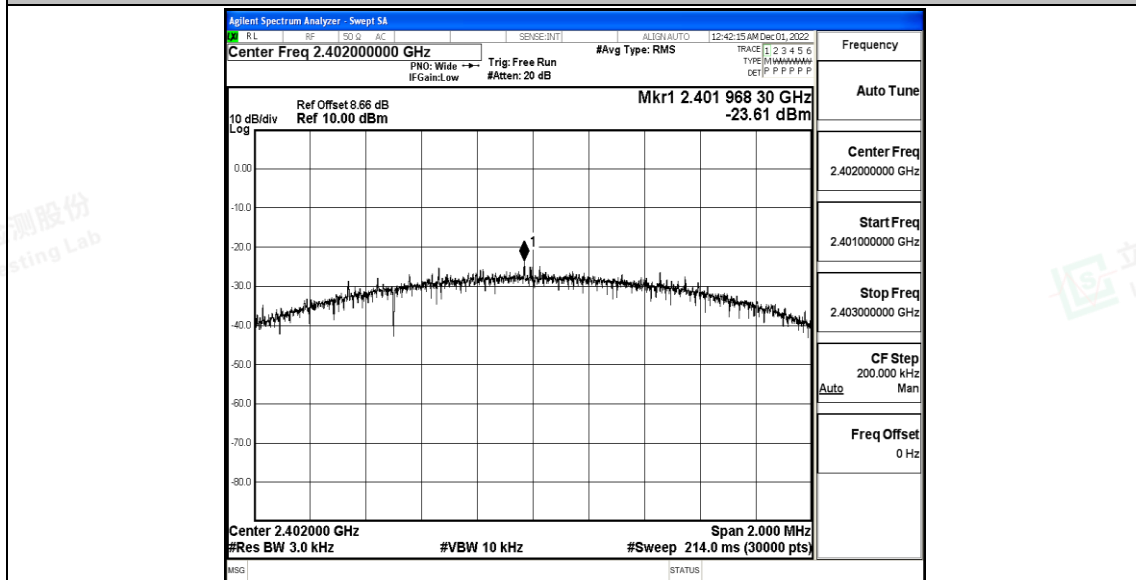


Test Graphs



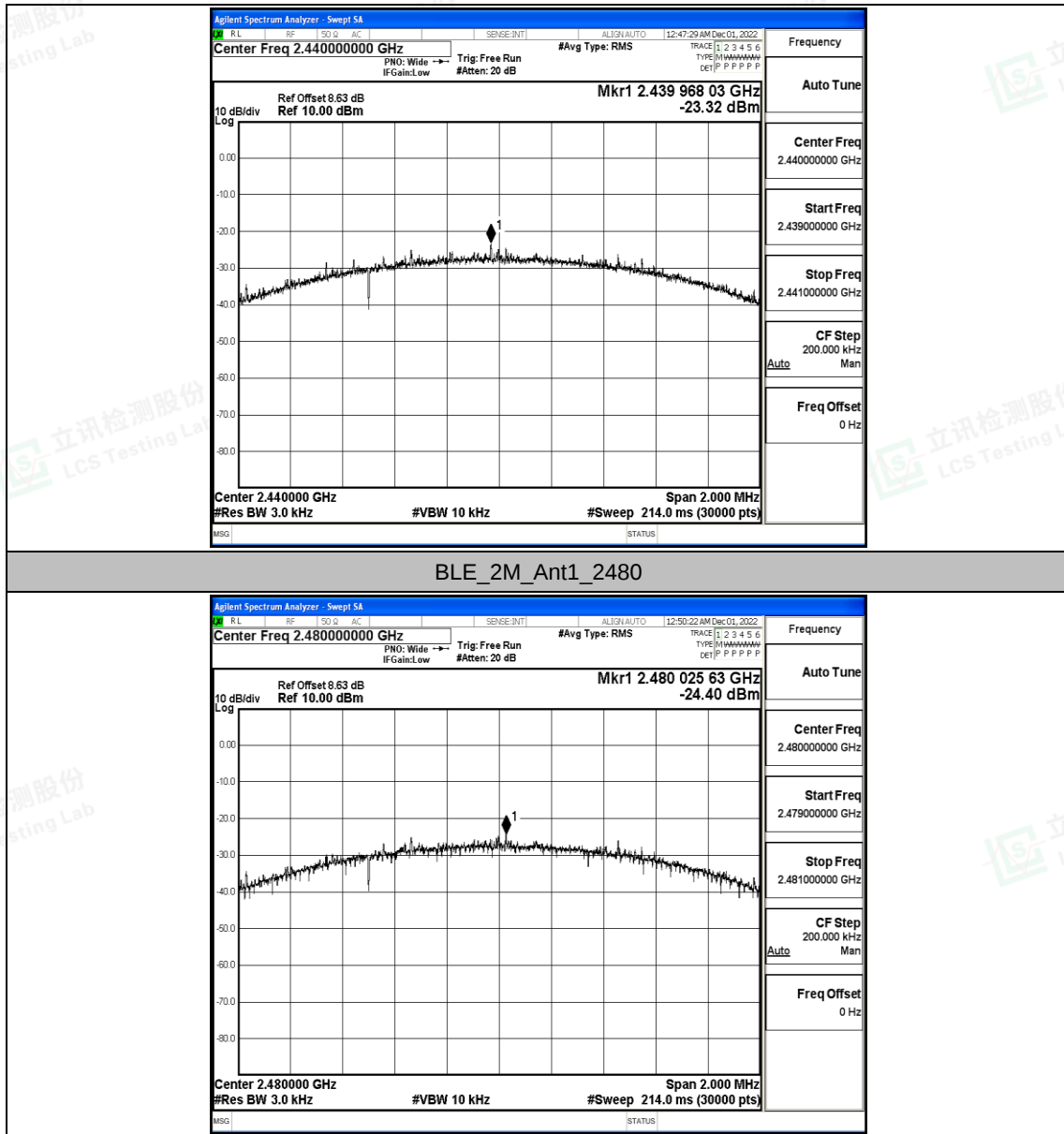


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440







B.4 Band edge measurements

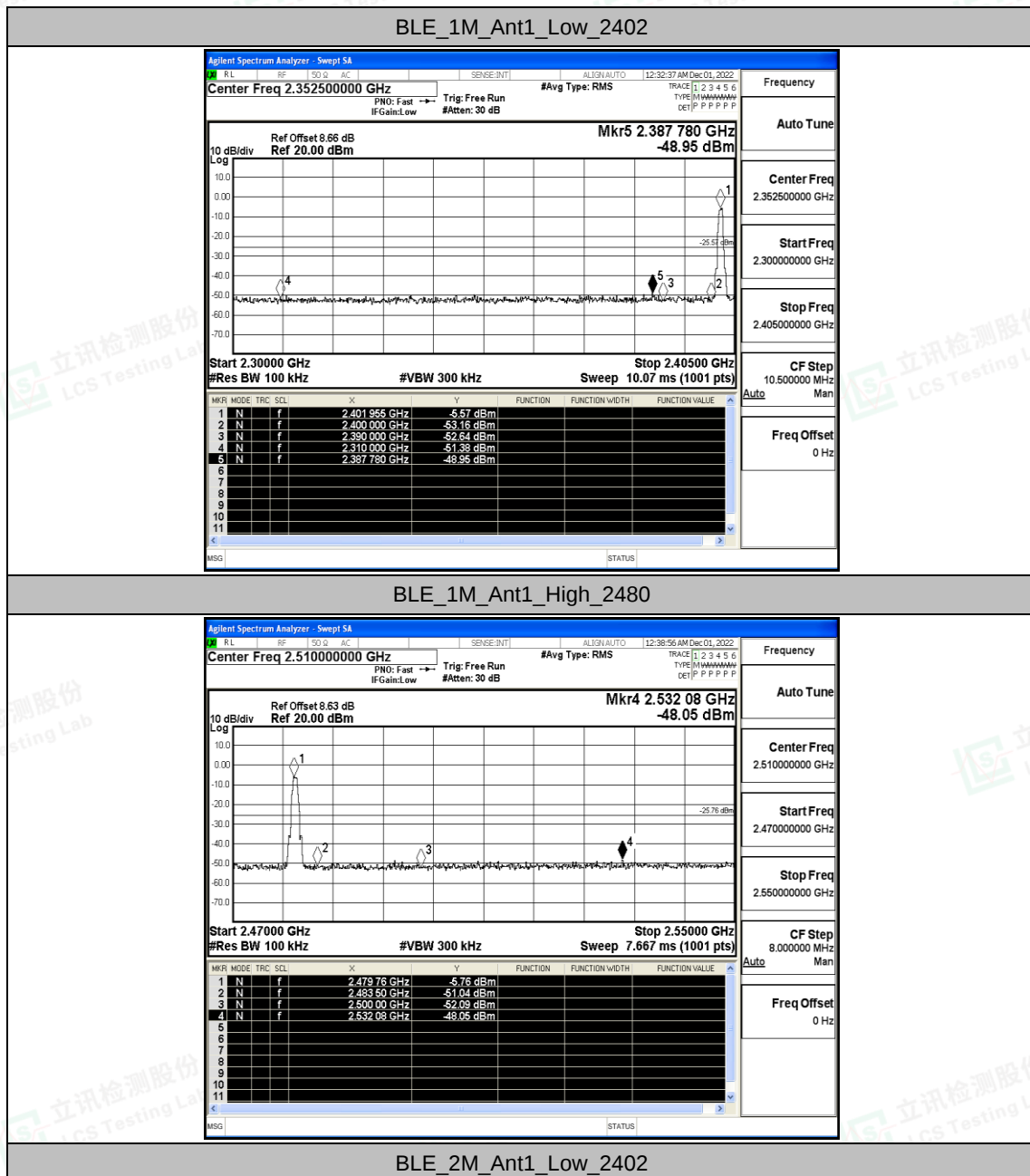
Test Result

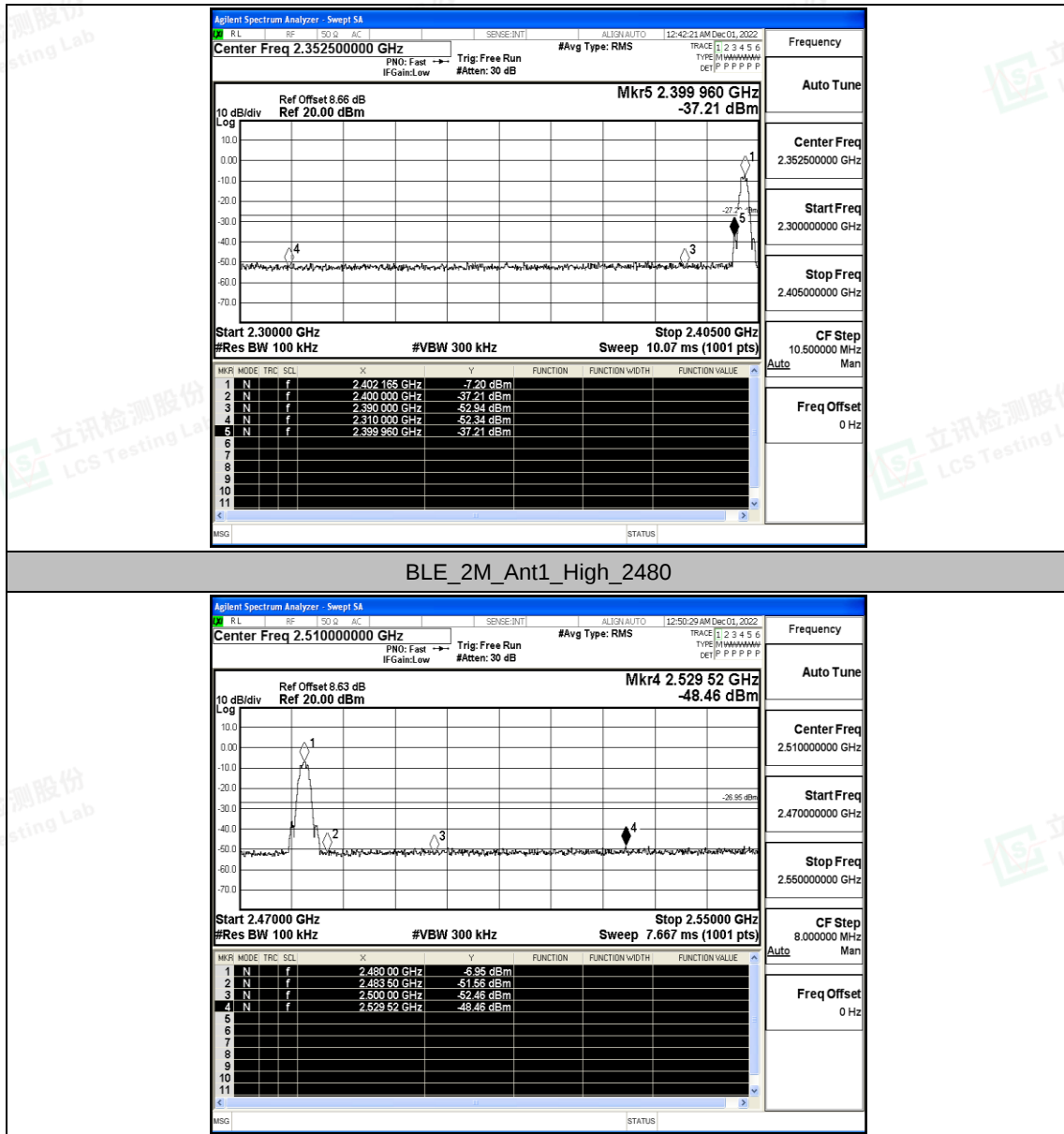
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.57	-48.95	≤ -25.57	PASS
		High	2480	-5.76	-48.05	≤ -25.76	PASS
BLE_2M	Ant1	Low	2402	-7.20	-37.21	≤ -27.2	PASS
		High	2480	-6.95	-48.46	≤ -26.95	PASS





Test Graphs







B.5 Conducted Spurious Emission

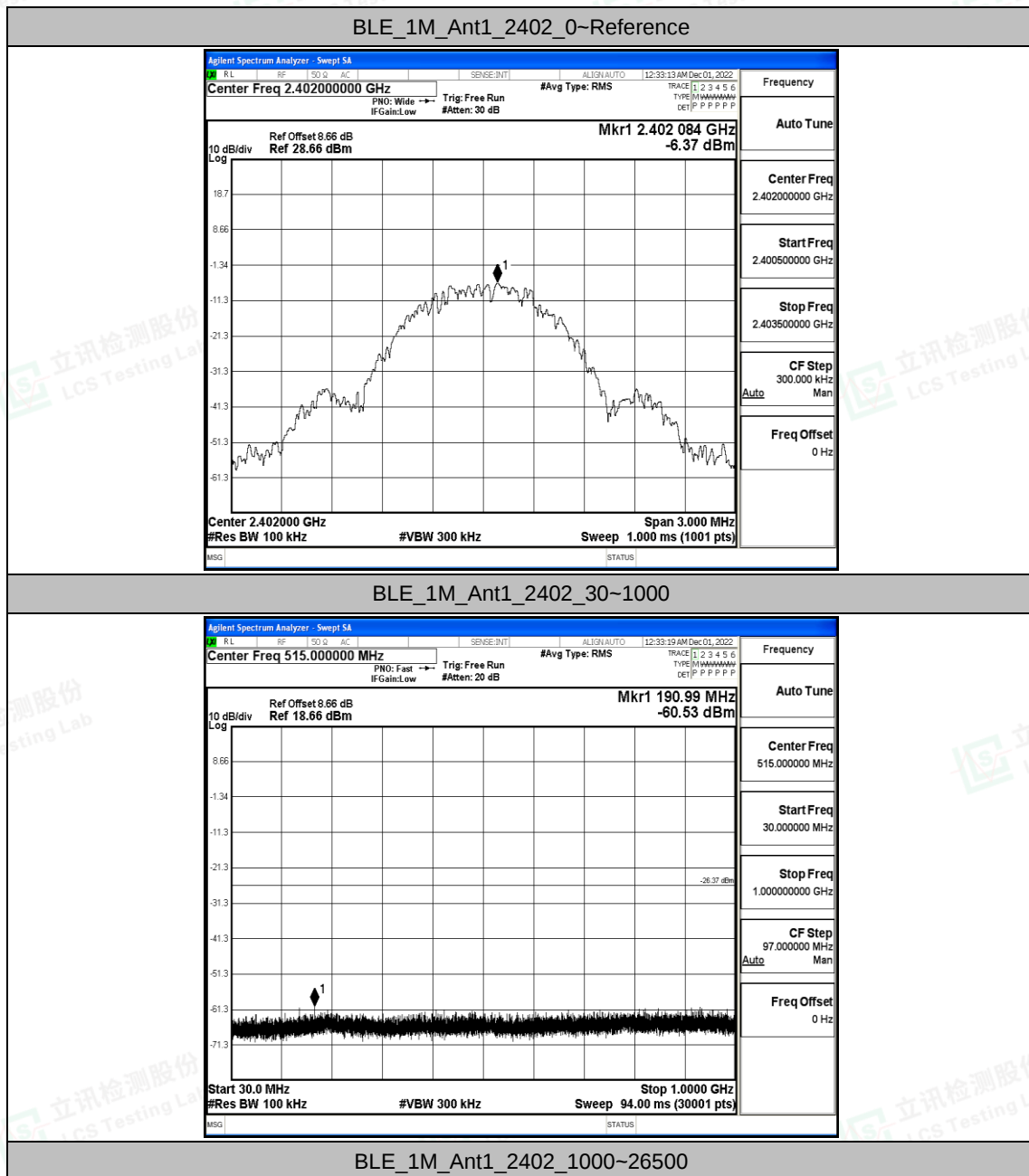
Test Result

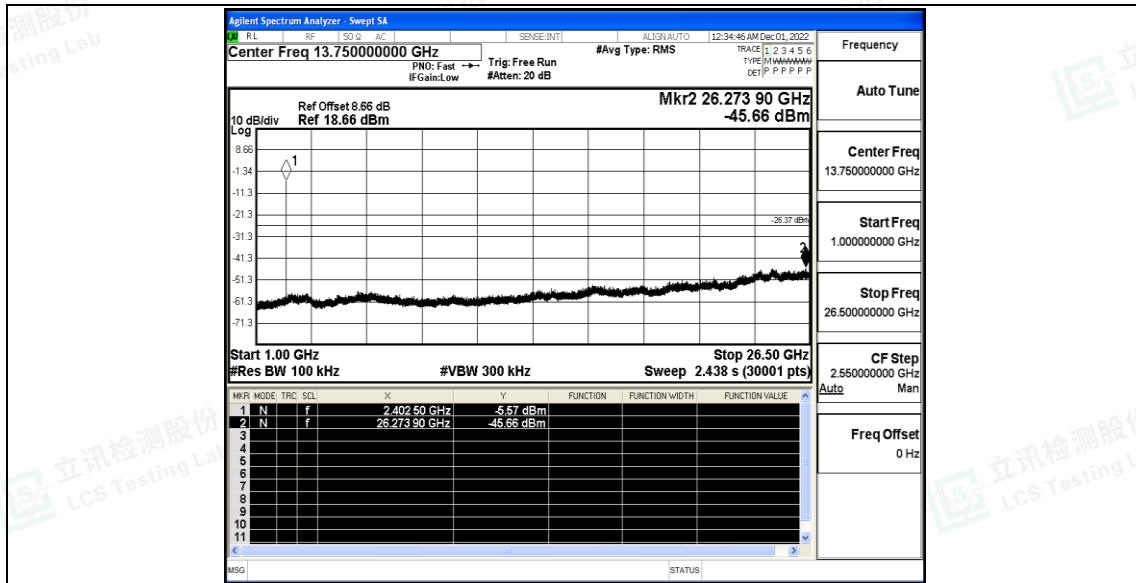
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-60.53	≤-26.37	PASS
			1000~26500	-6.37	-45.66	≤-26.37	PASS
		2440	Reference	-6.41	-6.41	---	PASS
			30~1000	-6.41	-60.47	≤-26.41	PASS
			1000~26500	-6.41	-46.05	≤-26.41	PASS
		2480	Reference	-6.23	-6.23	---	PASS
			30~1000	-6.23	-60.88	≤-26.23	PASS
			1000~26500	-6.23	-45.39	≤-26.23	PASS
BLE_2M	Ant1	2402	Reference	-8.13	-8.13	---	PASS
			30~1000	-8.13	-60.7	≤-28.13	PASS
			1000~26500	-8.13	-46.37	≤-28.13	PASS
		2440	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-60.24	≤-26.18	PASS
			1000~26500	-6.18	-46.57	≤-26.18	PASS
		2480	Reference	-8.16	-8.16	---	PASS
			30~1000	-8.16	-59.7	≤-28.16	PASS
			1000~26500	-8.16	-45.6	≤-28.16	PASS



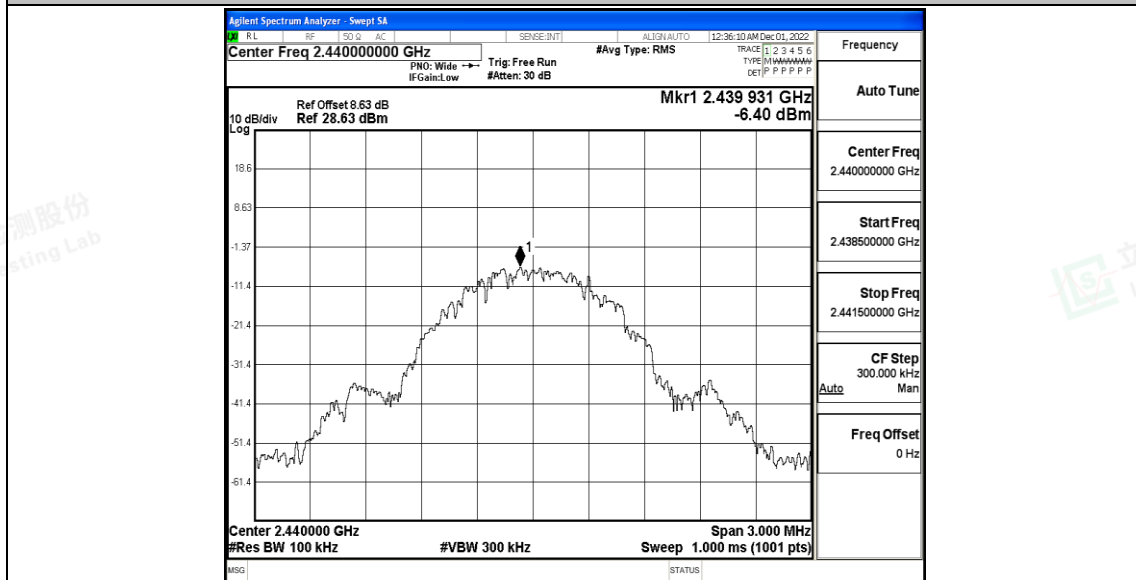


Test Graphs



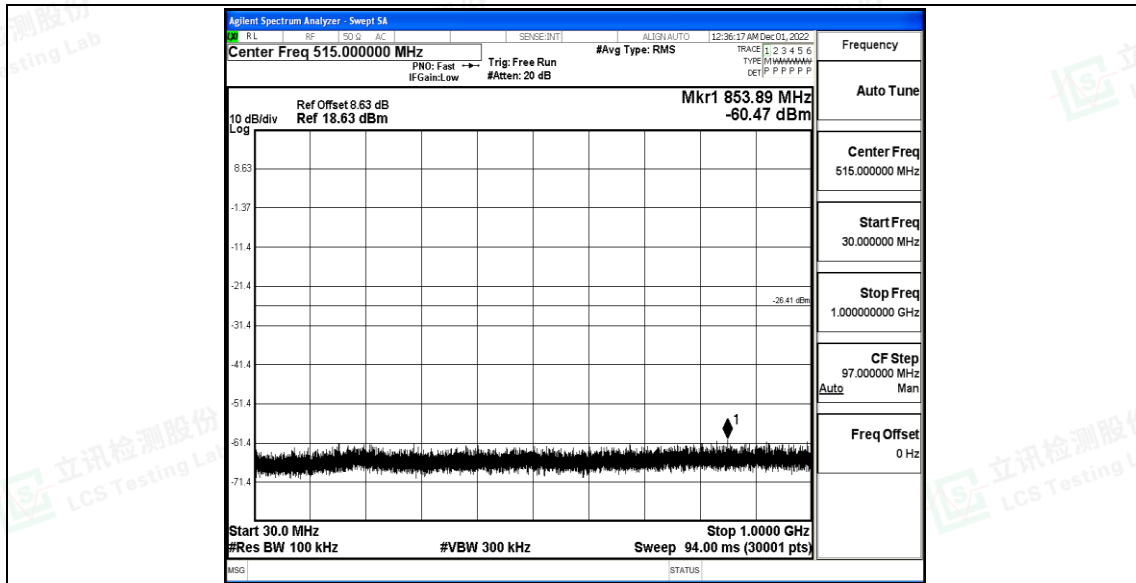


BLE_1M_Ant1_2440_0~Reference

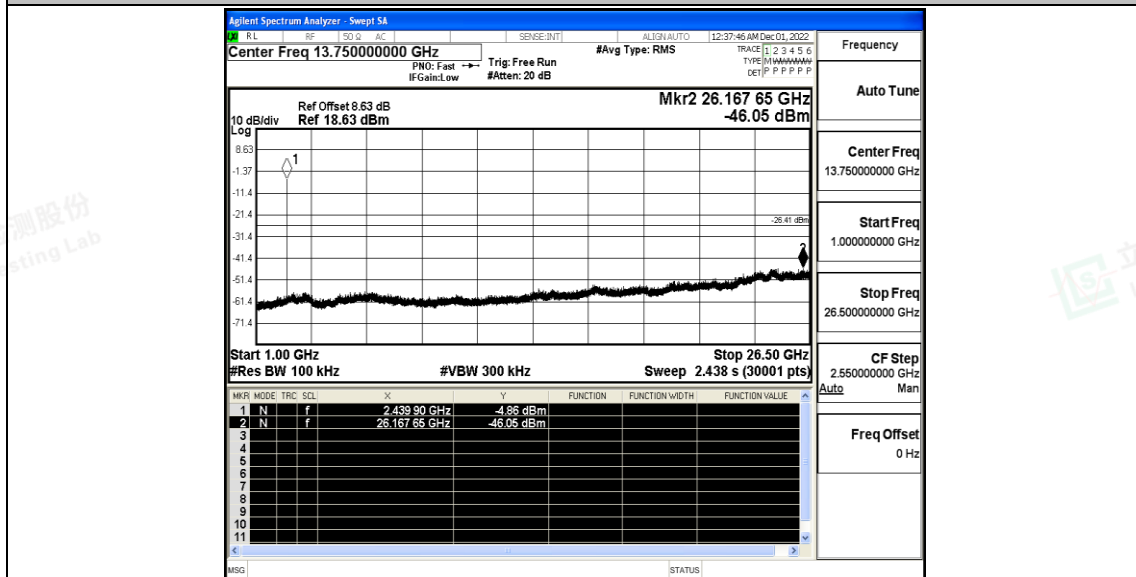


BLE_1M_Ant1_2440_30~1000



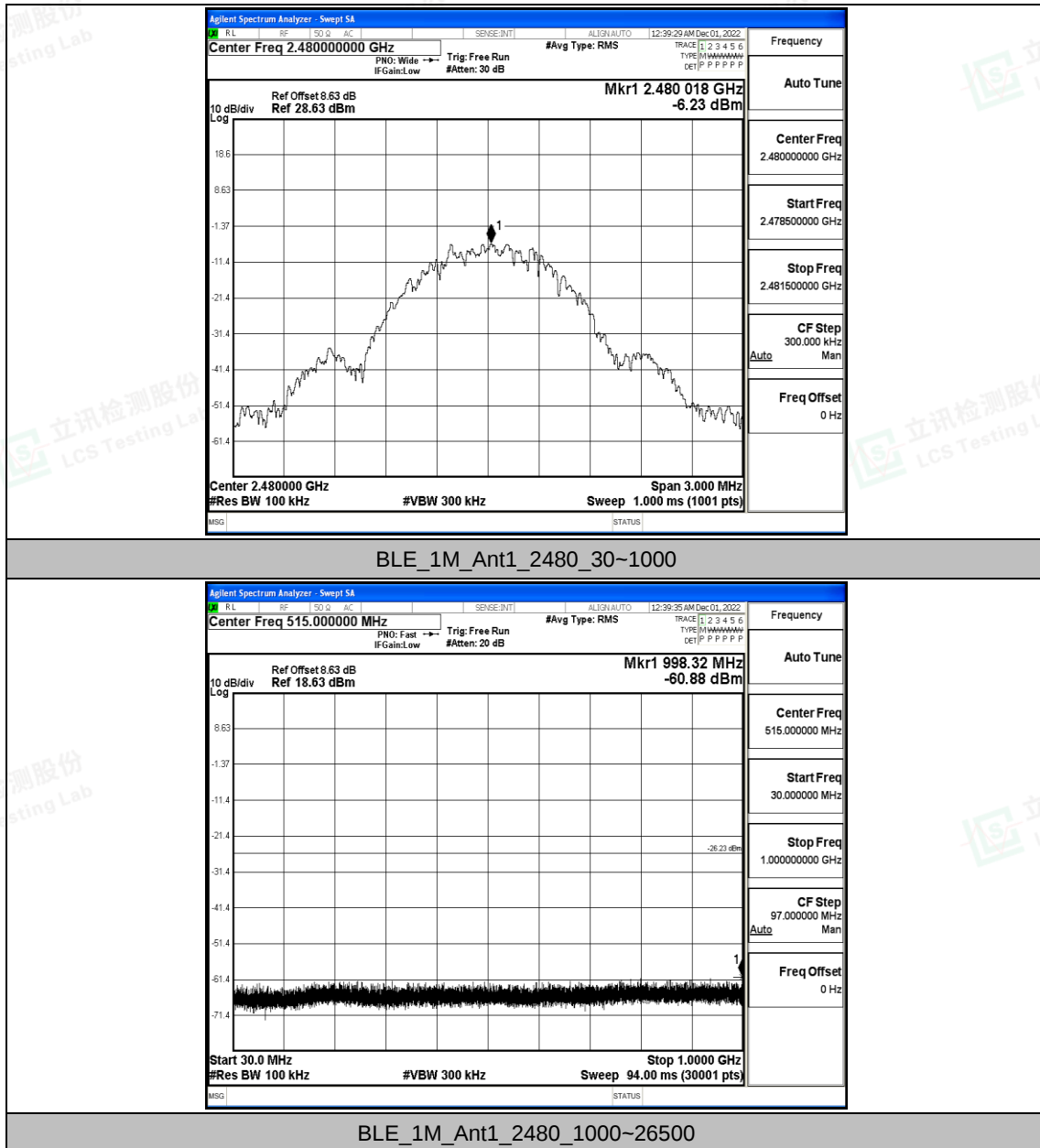


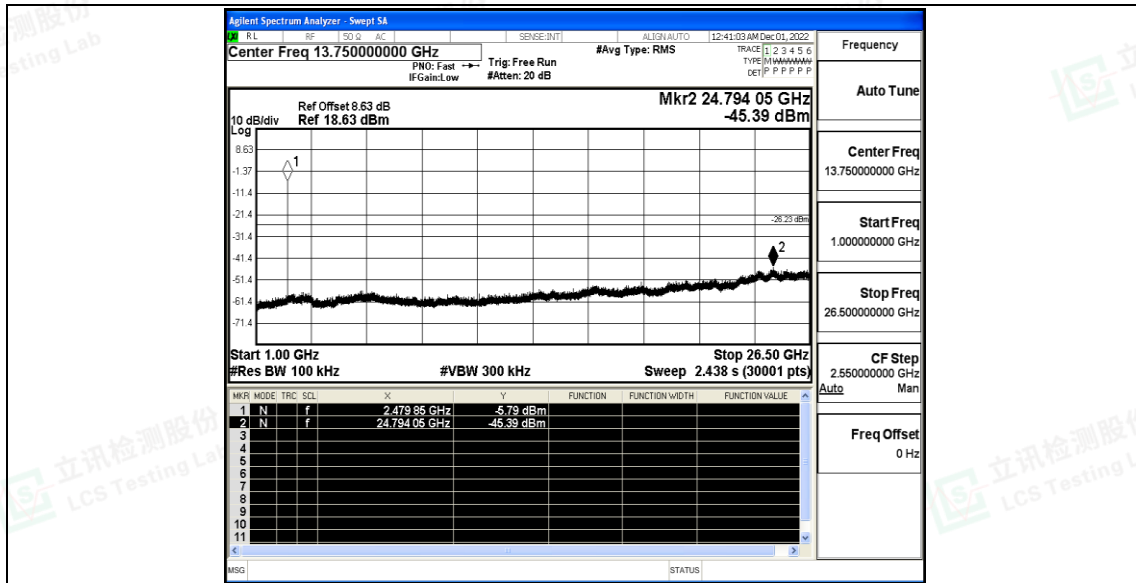
BLE_1M_Ant1_2440_1000~26500



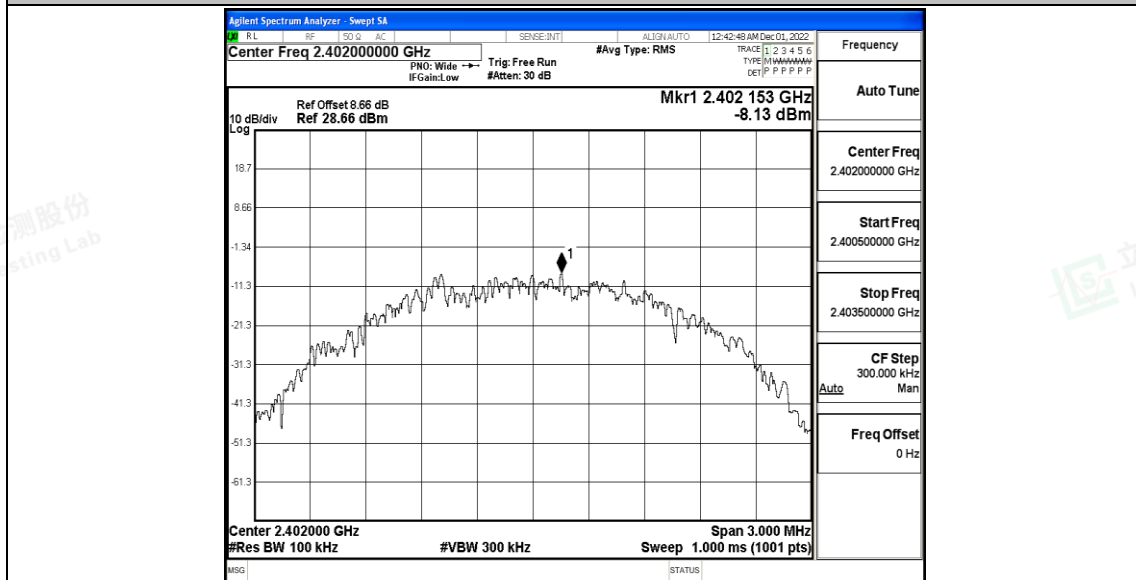
BLE_1M_Ant1_2480_0~Reference





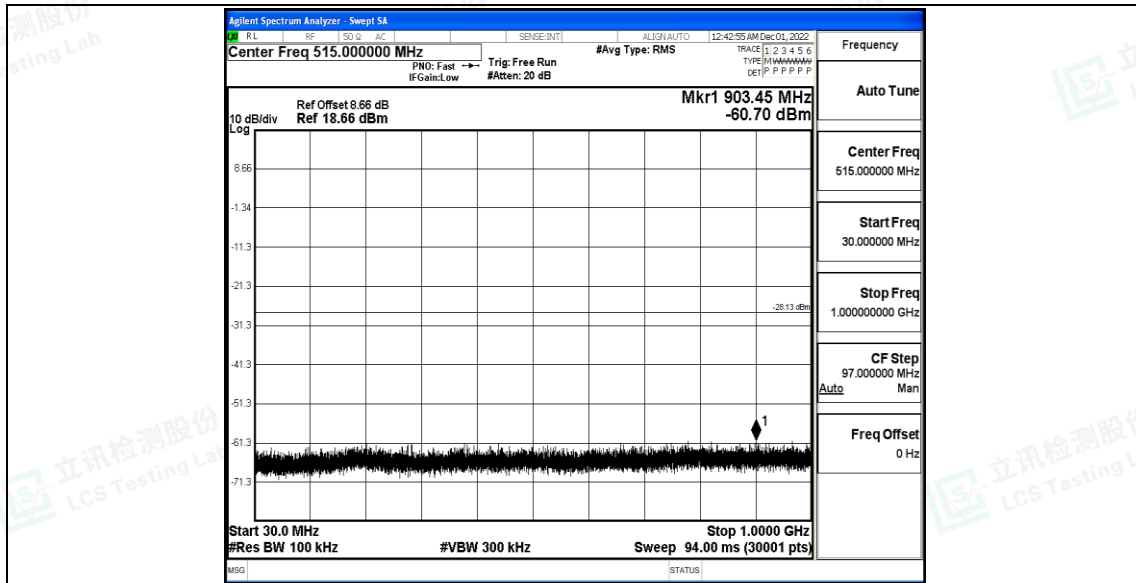


BLE_2M_Ant1_2402_0~Reference

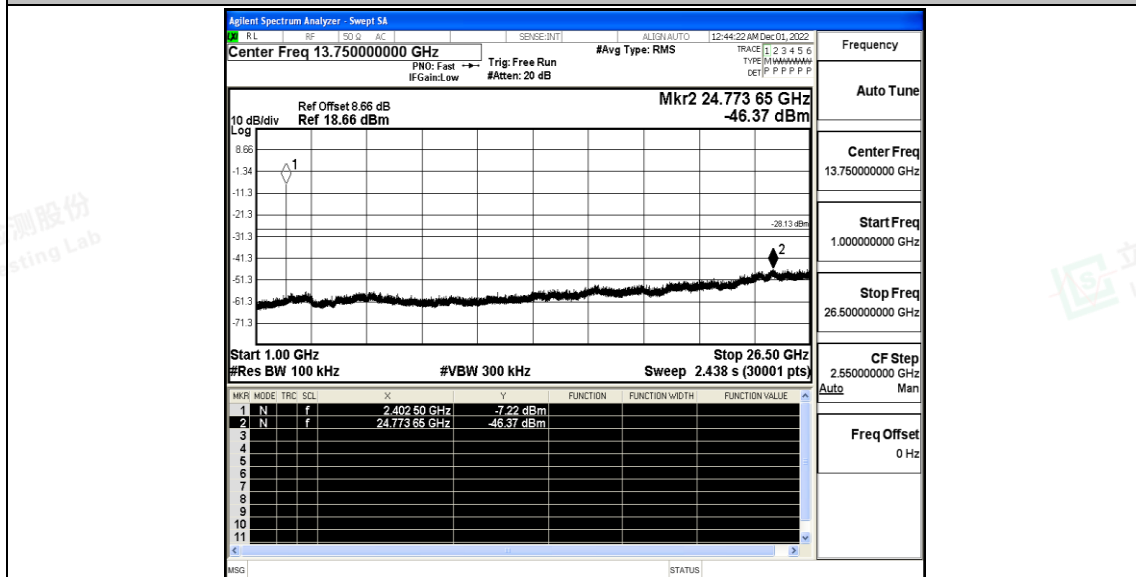


BLE_2M_Ant1_2402_30~1000



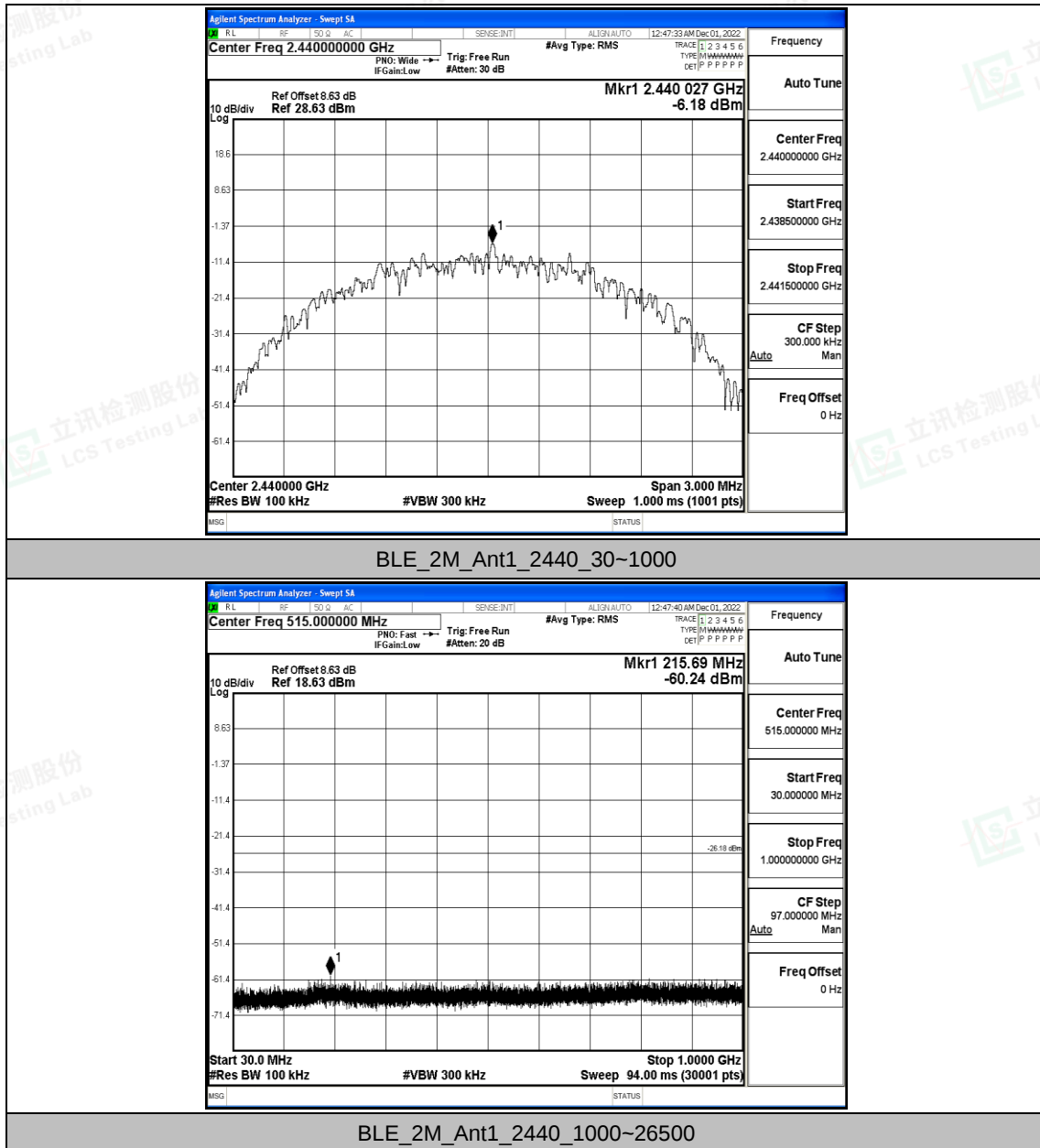


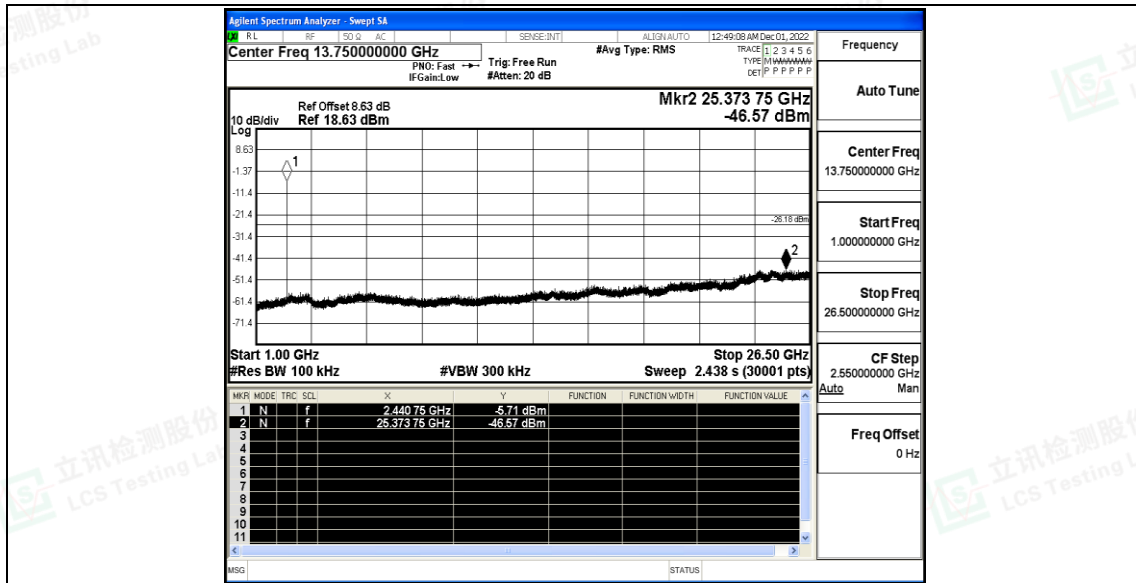
BLE_2M_Ant1_2402_1000~26500



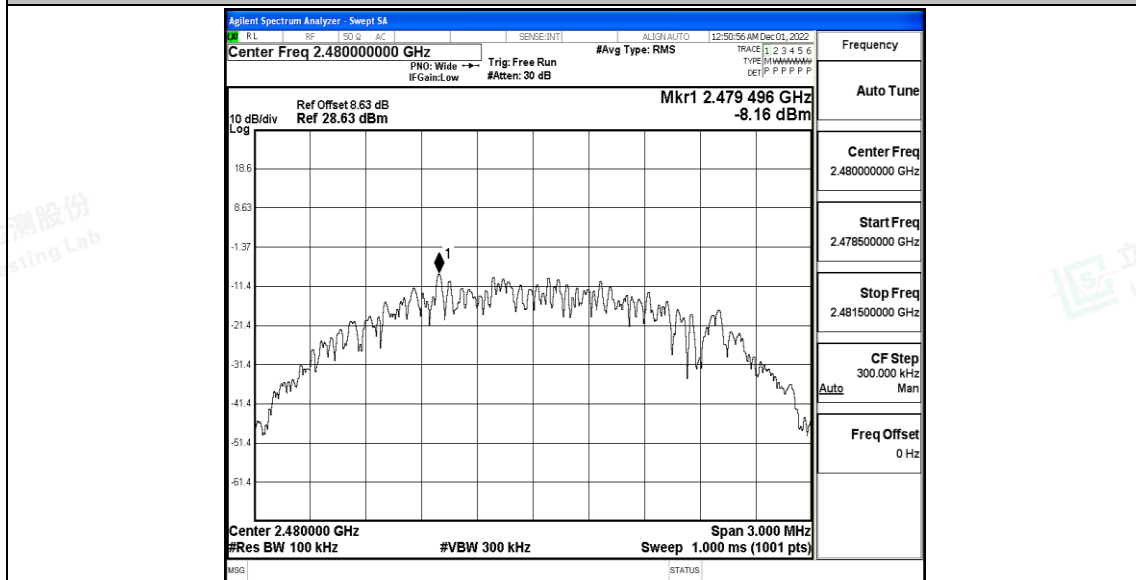
BLE_2M_Ant1_2440_0~Reference





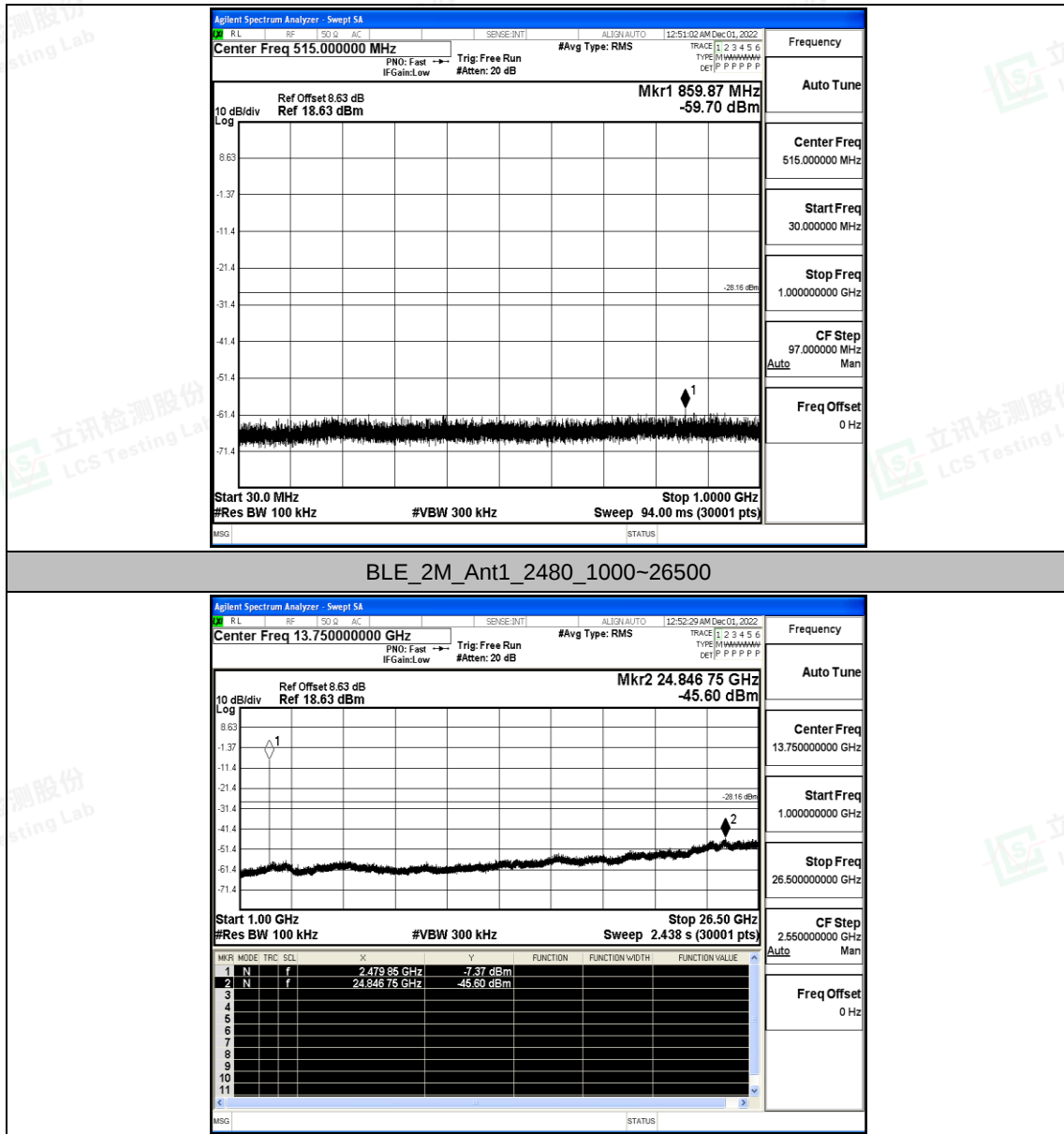


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000







B.6 Duty Cycle

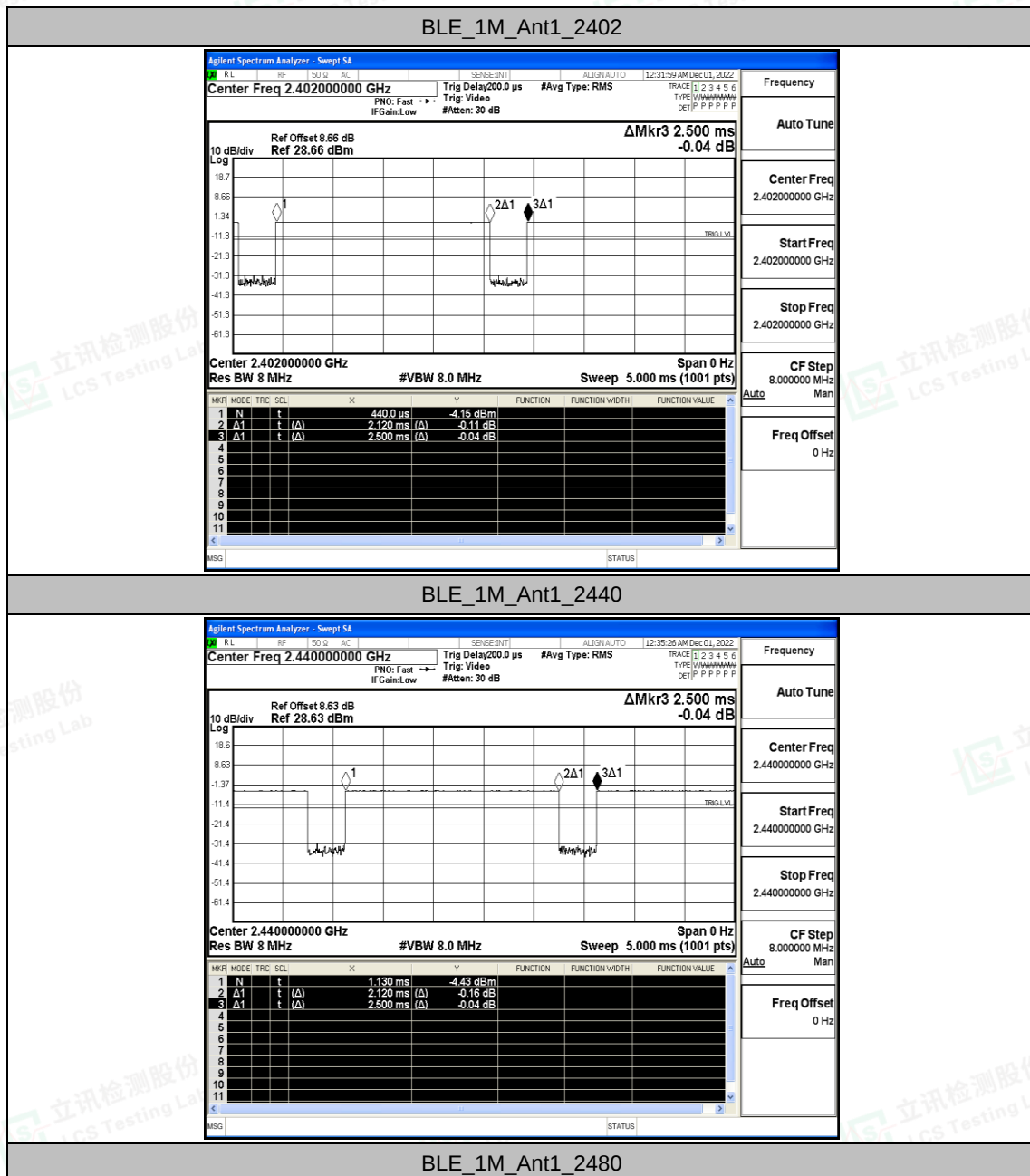
Test Result

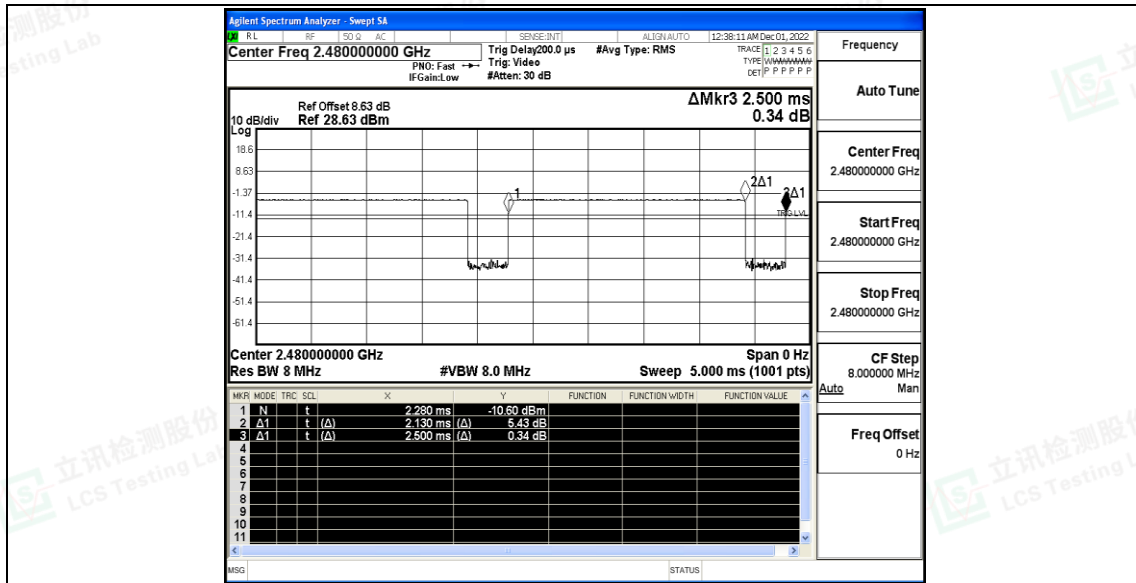
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	2.12	2.50	0.8480	84.80	0.72	0.47	---	PASS
		2440	2.12	2.50	0.8480	84.80	0.72	0.47	---	PASS
		2480	2.13	2.50	0.8520	85.20	0.70	0.47	---	PASS
BLE_2M	Ant1	2402	1.07	1.87	0.5722	57.22	2.42	0.93	---	PASS
		2440	1.07	1.87	0.5722	57.22	2.42	0.93	---	PASS
		2480	1.07	1.87	0.5722	57.22	2.42	0.93	---	PASS



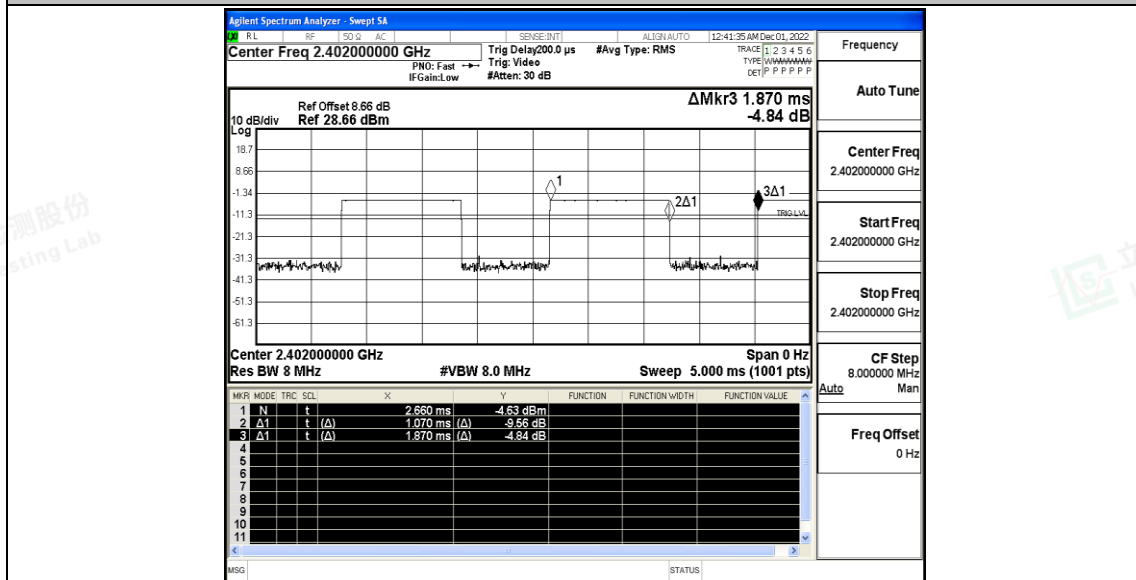


Test Graphs



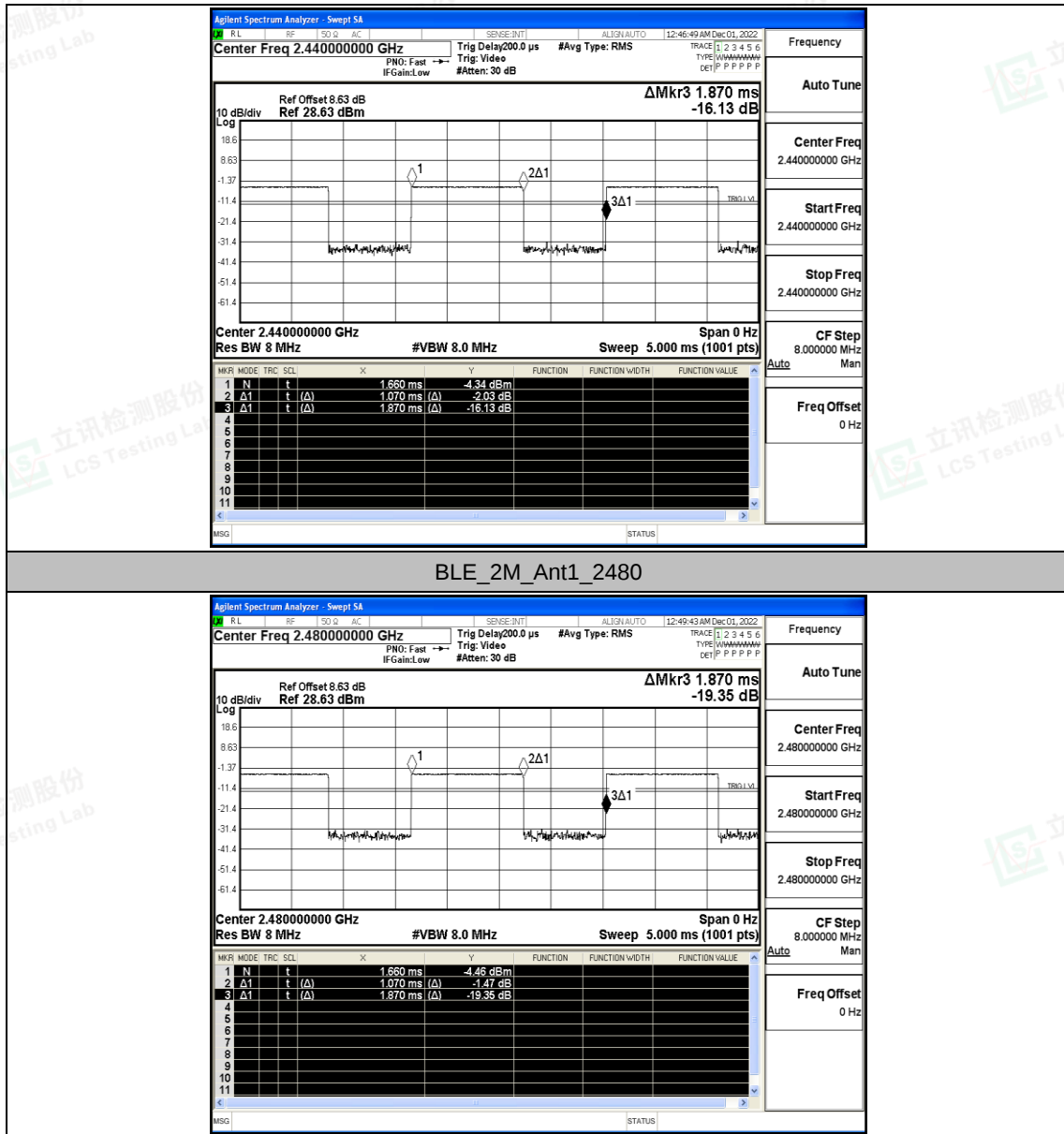


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440







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
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.1	≤-41.20	47.10	≤54	PASS
				AV	2385.365	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2390.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	2310.000	-41.34	≤-21.20	53.86	≤74	PASS
				Peak	2319.110	-38	≤-21.20	57.20	≤74	PASS
				Peak	2390.000	-39.93	≤-21.20	55.27	≤74	PASS
		High	2480	AV	2483.500	-47.21	≤-41.20	47.99	≤54	PASS
				AV	2497.440	-47.03	≤-41.20	48.17	≤54	PASS
				AV	2500.000	-47.2	≤-41.20	48.00	≤54	PASS
				Peak	2483.500	-41	≤-21.20	54.20	≤74	PASS
				Peak	2489.120	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2500.000	-40.09	≤-21.20	55.11	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2389.985	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2390.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	2310.000	-39.93	≤-21.20	55.27	≤74	PASS
				Peak	2331.920	-36.9	≤-21.20	58.30	≤74	PASS
				Peak	2390.000	-40.01	≤-21.20	55.19	≤74	PASS
		High	2480	AV	2483.500	-46.58	≤-41.20	48.62	≤54	PASS
				AV	2483.520	-46.58	≤-41.20	48.62	≤54	PASS
				AV	2500.000	-46.95	≤-41.20	48.25	≤54	PASS
				Peak	2483.500	-41.43	≤-21.20	53.77	≤74	PASS
				Peak	2489.840	-37.2	≤-21.20	58.00	≤74	PASS
				Peak	2500.000	-39.93	≤-21.20	55.27	≤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.

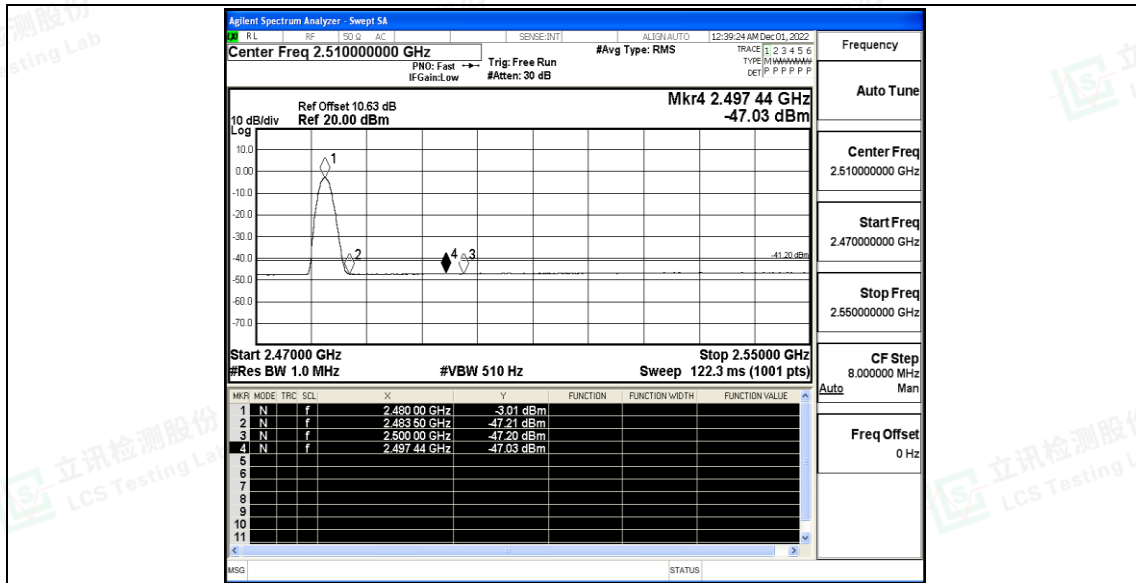


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

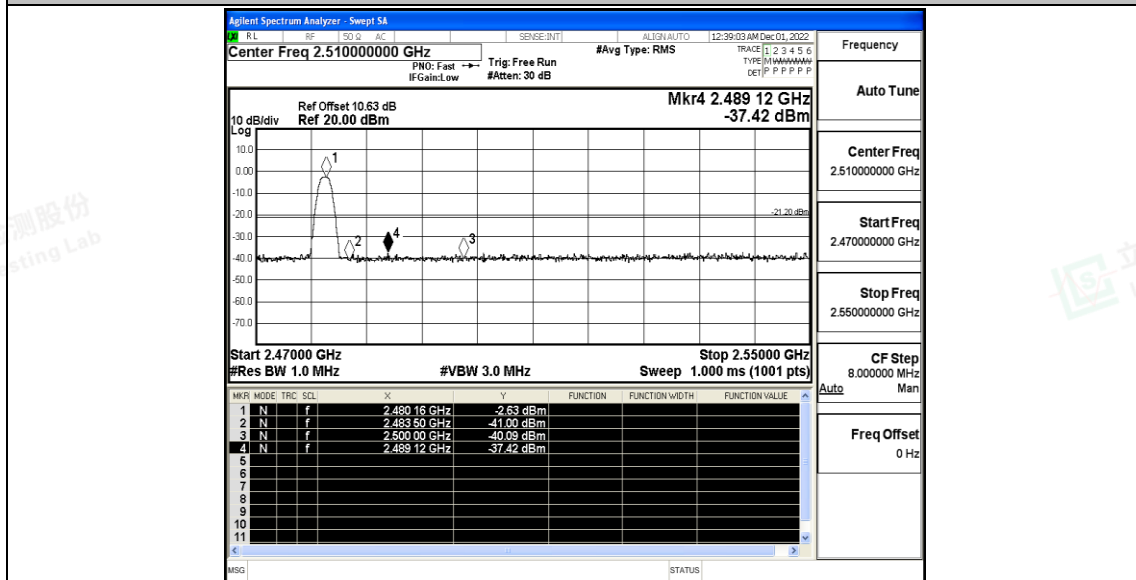


Test Graphs



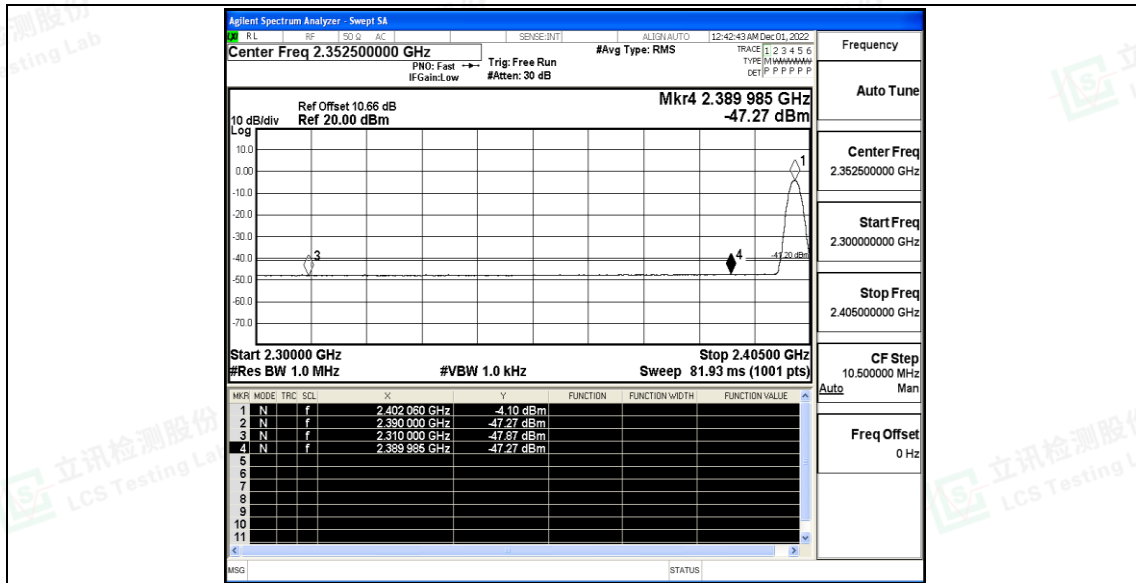


BLE_1M_Ant1_High_2480_Peak

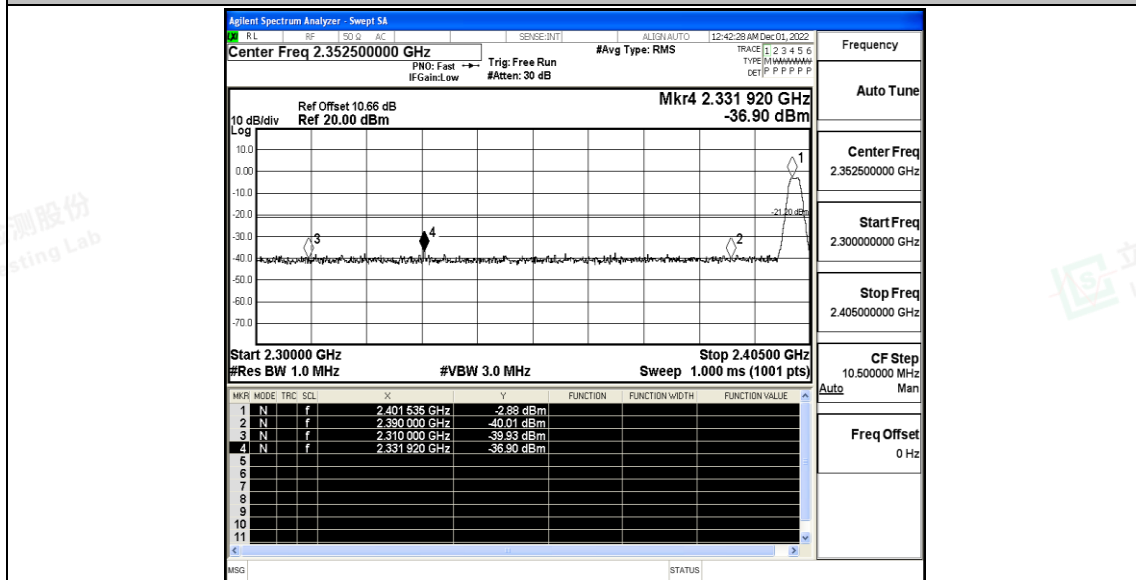


BLE_2M_Ant1_Low_2402_AV





BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV



