



Appendix A

RF Test Data for BTLE (Conducted Measurement)

Product Name: Foldable Keyboard

Test Model: HT720

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





A.1 DTS Bandwidth

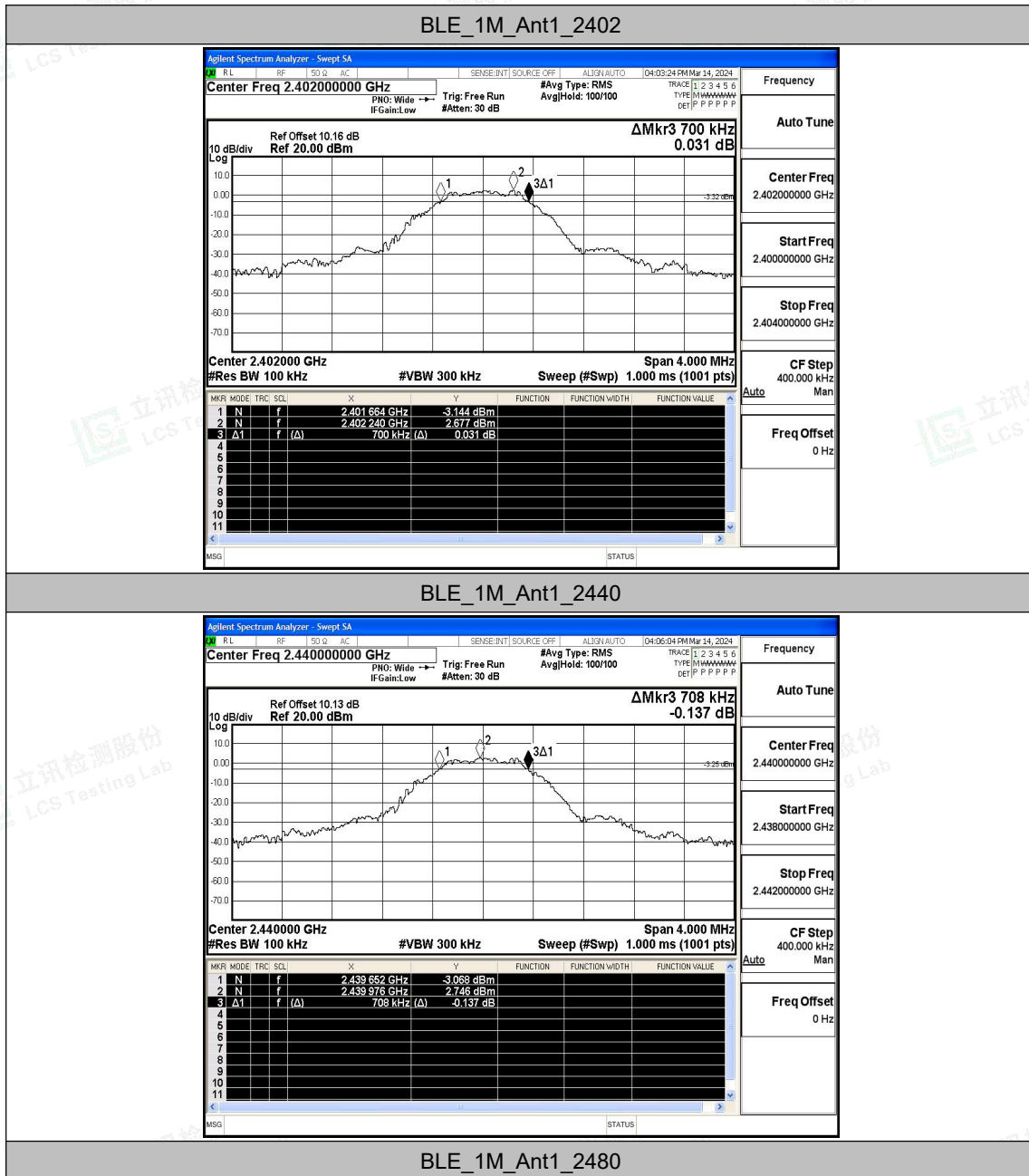
Test Result

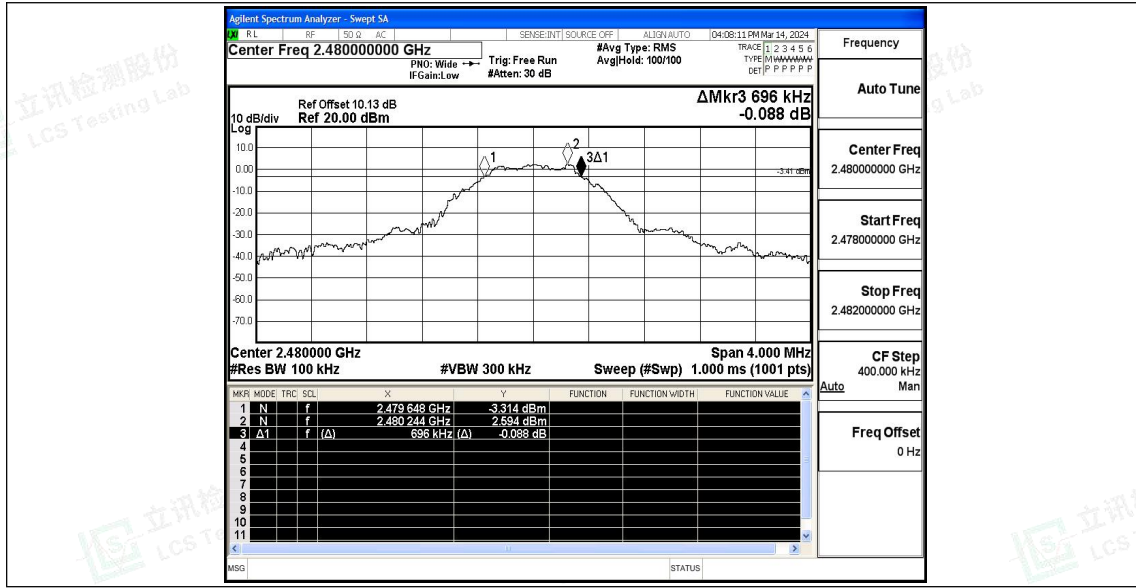
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.664	2402.364	0.5	PASS
		2440	0.708	2439.652	2440.360	0.5	PASS
		2480	0.696	2479.648	2480.344	0.5	PASS





Test Graphs







A.2 Maximum conducted output power

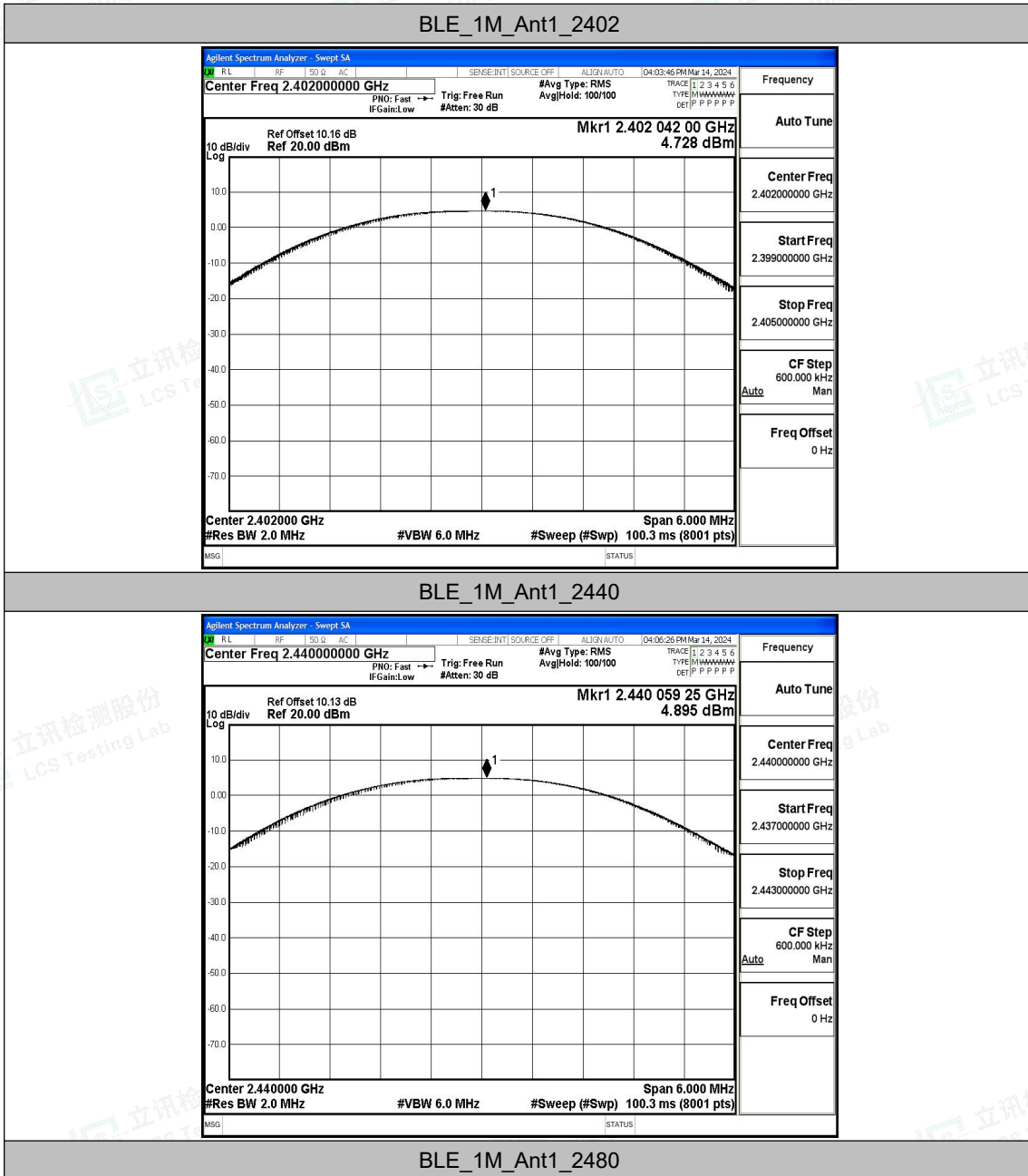
Test Result

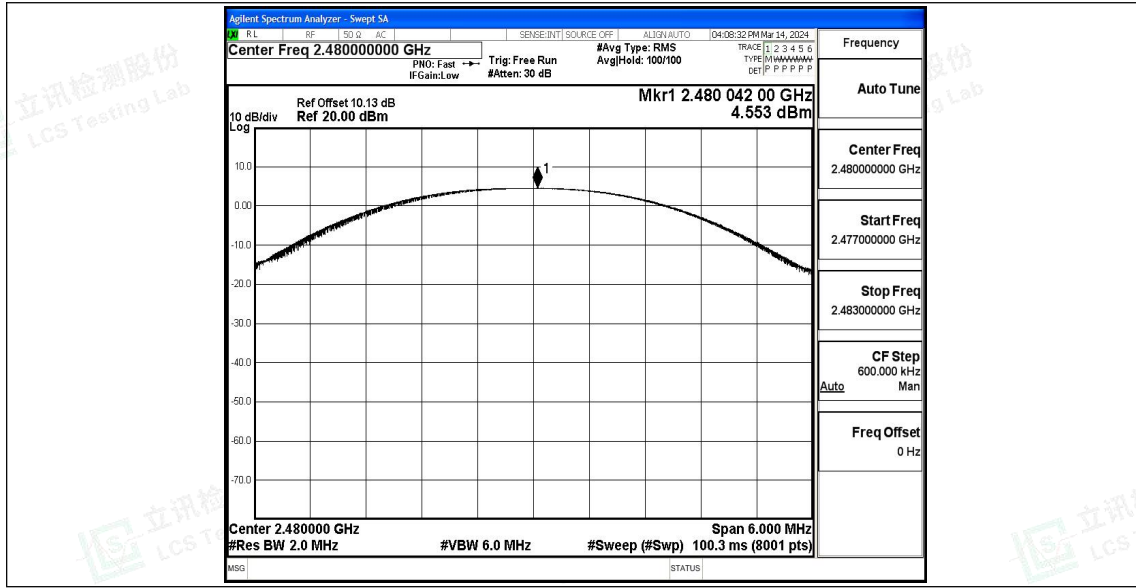
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.73	≤30	PASS
		2440	4.90	≤30	PASS
		2480	4.55	≤30	PASS





Test Graphs







A.3 Maximum power spectral density

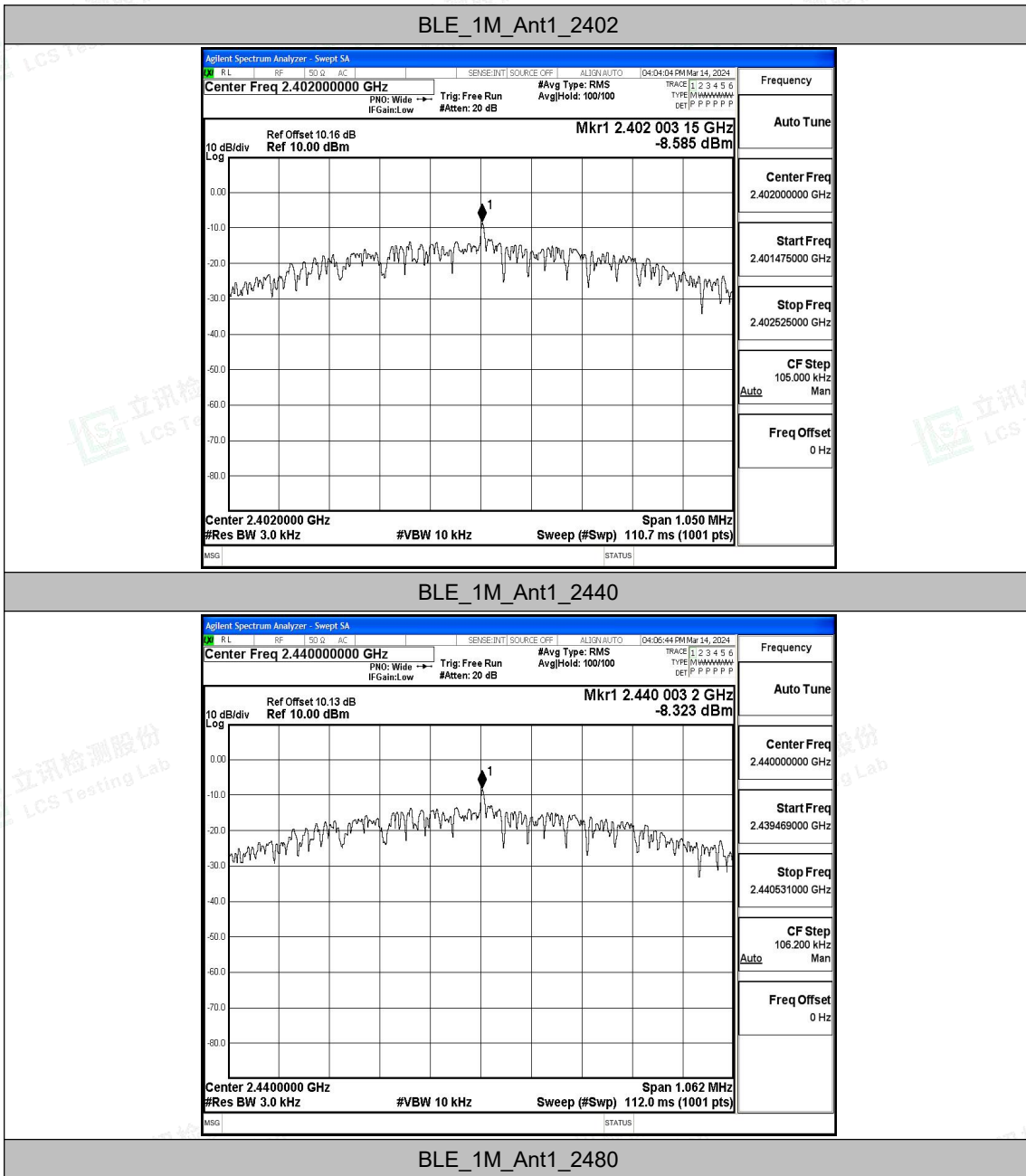
Test Result

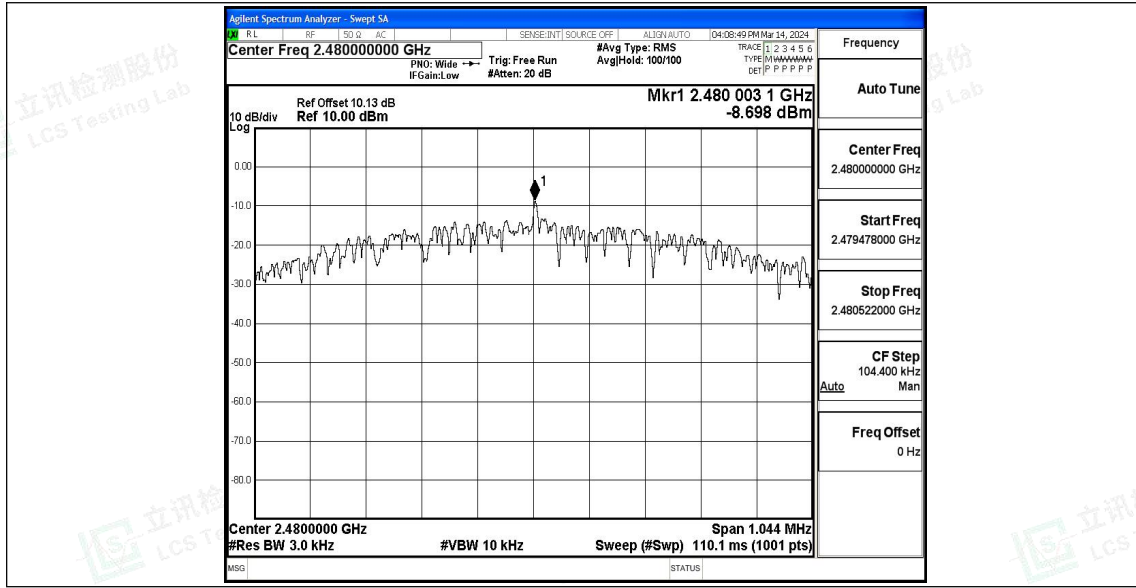
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.59	≤8.00	PASS
		2440	-8.32	≤8.00	PASS
		2480	-8.70	≤8.00	PASS





Test Graphs







A.4 Band edge measurements

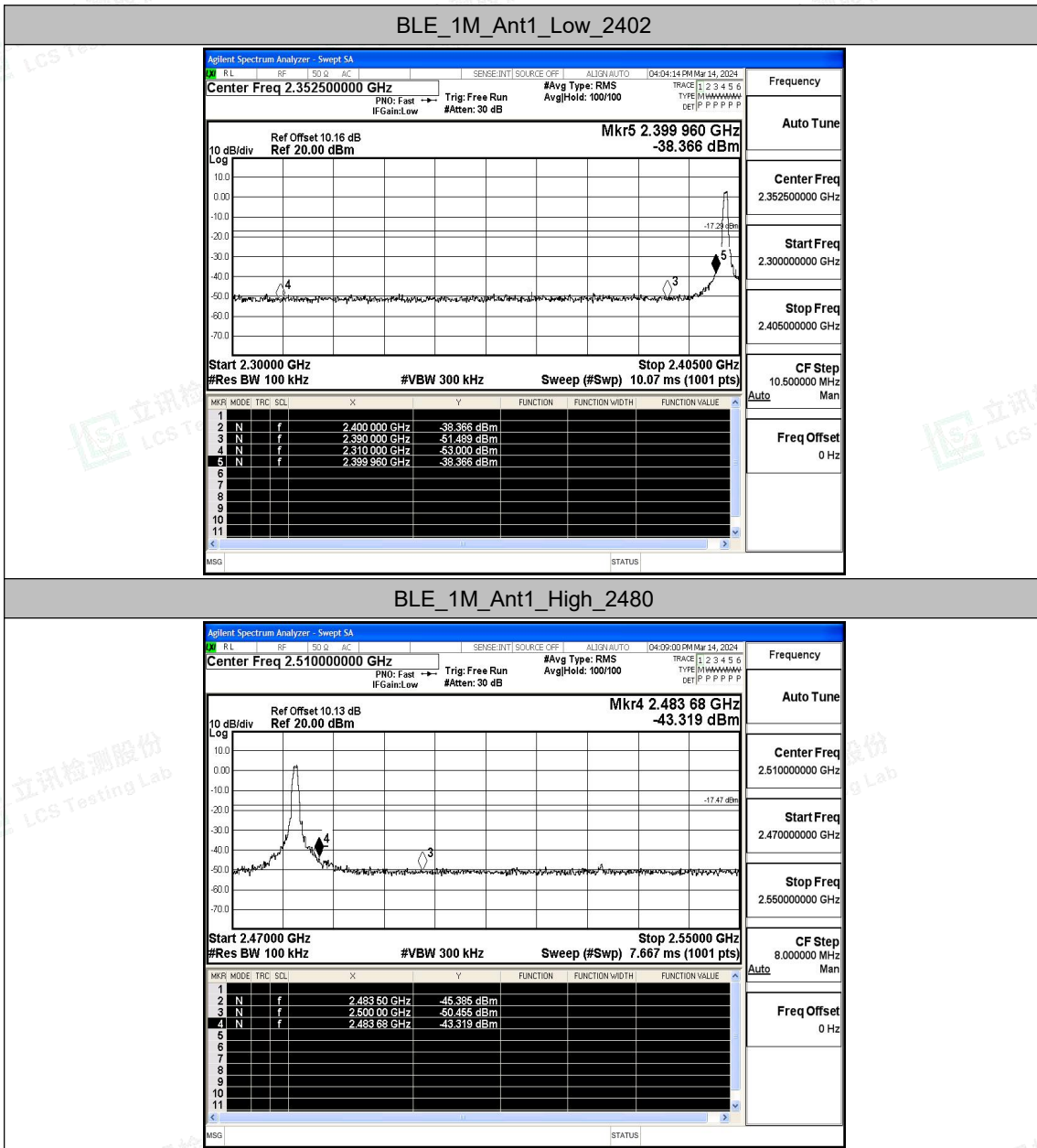
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.71	-38.37	≤-17.29	PASS
		High	2480	2.53	-43.32	≤-17.47	PASS





Test Graphs





A.5 Conducted Spurious Emission

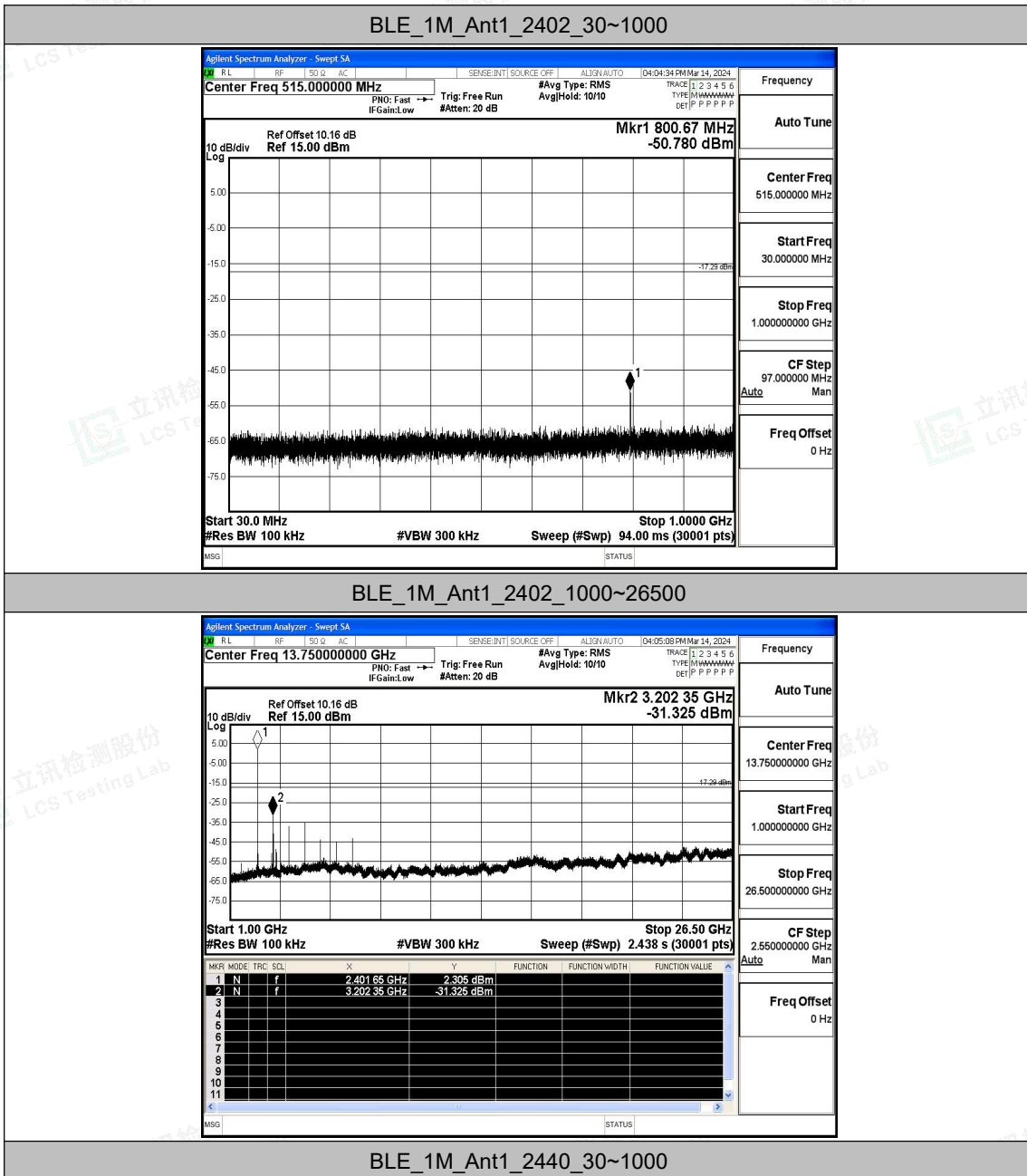
Test Result

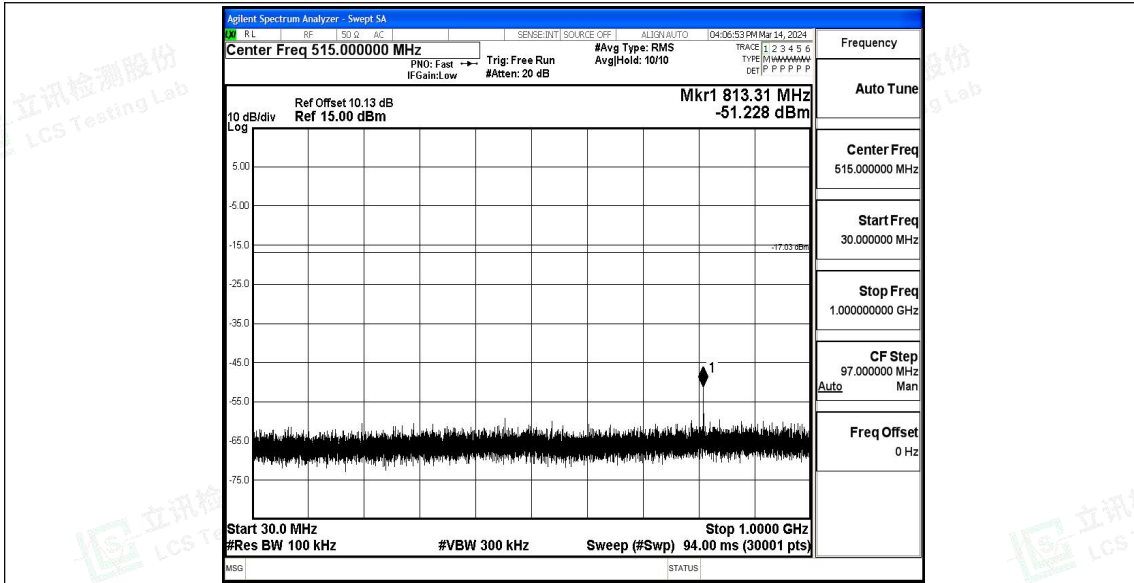
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	2.71	-50.78	≤-17.29	PASS
			1000~26500	2.71	-31.33	≤-17.29	PASS
		2440	30~1000	2.97	-51.23	≤-17.03	PASS
			1000~26500	2.97	-32.26	≤-17.03	PASS
		2480	30~1000	2.53	-51.75	≤-17.47	PASS
			1000~26500	2.53	-33.92	≤-17.47	PASS



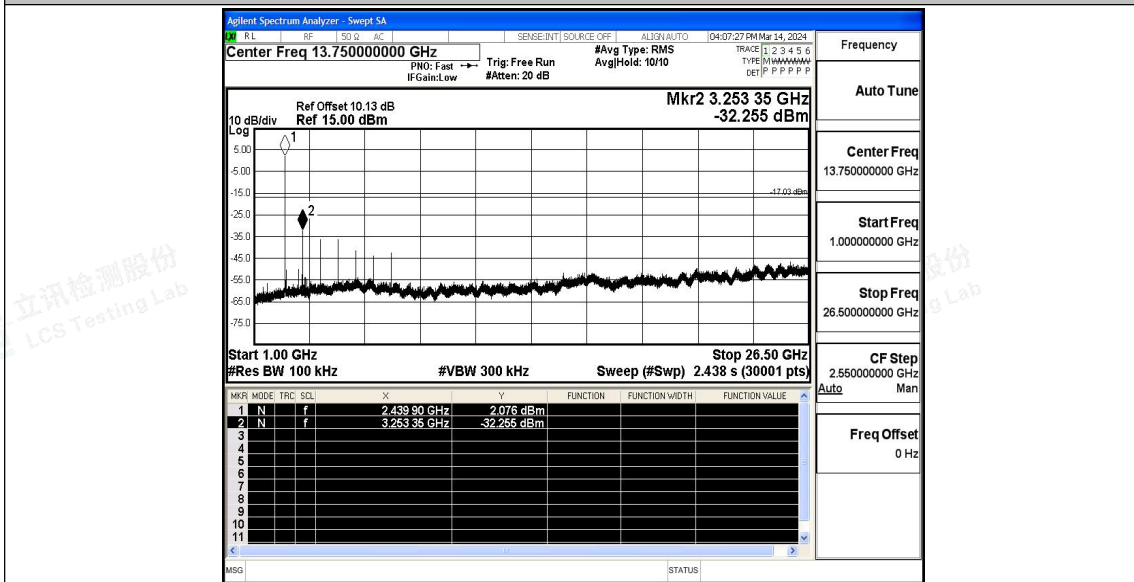


Test Graphs



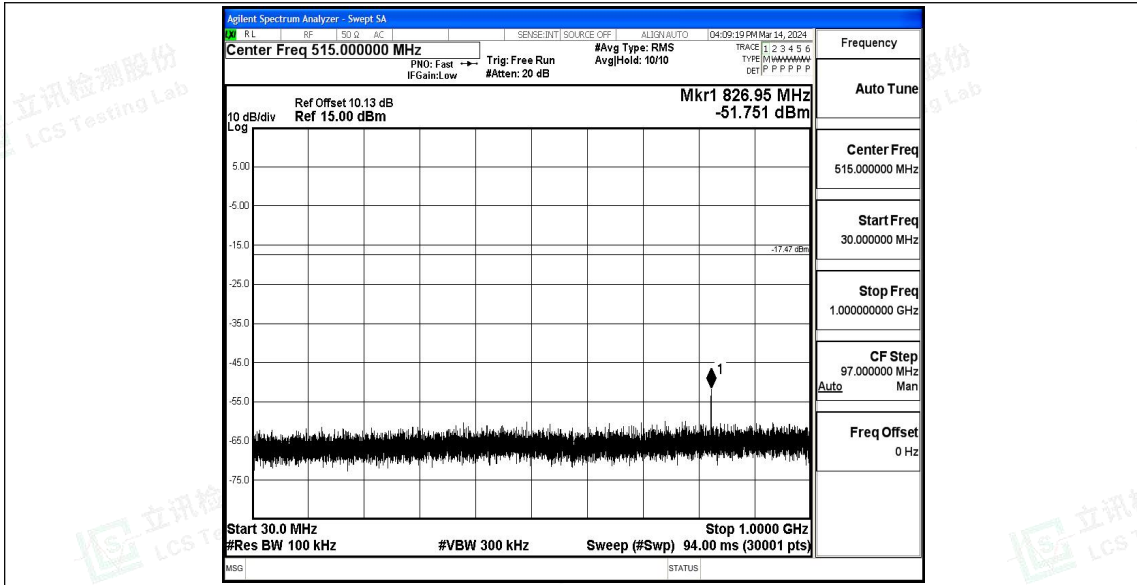


BLE_1M_Ant1_2440_1000~26500

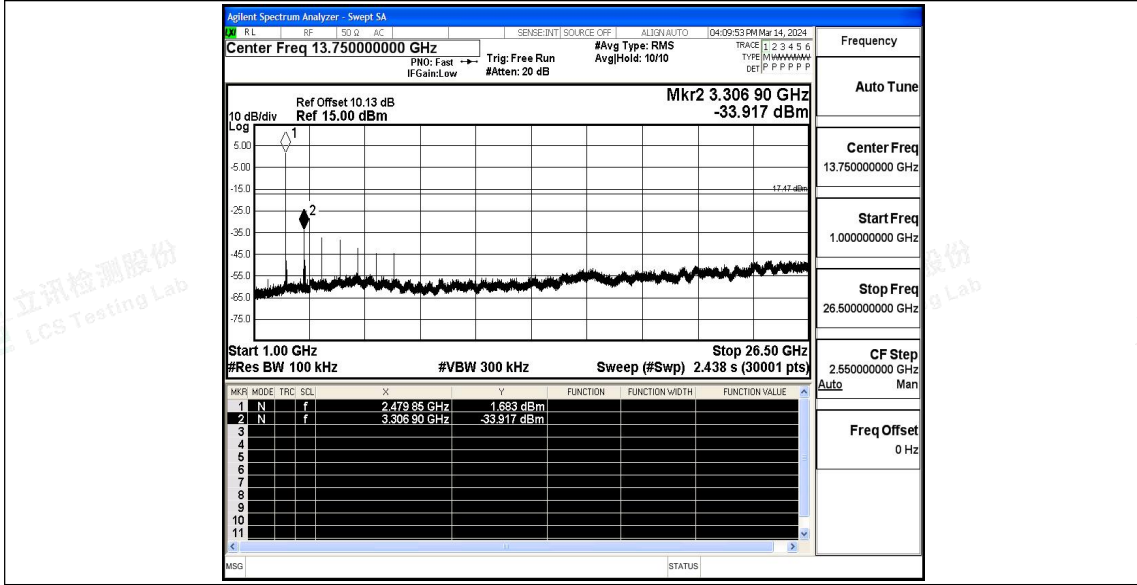


BLE_1M_Ant1_2480_30~1000





BLE_1M_Ant1_2480_1000~26500





Reference level measurement

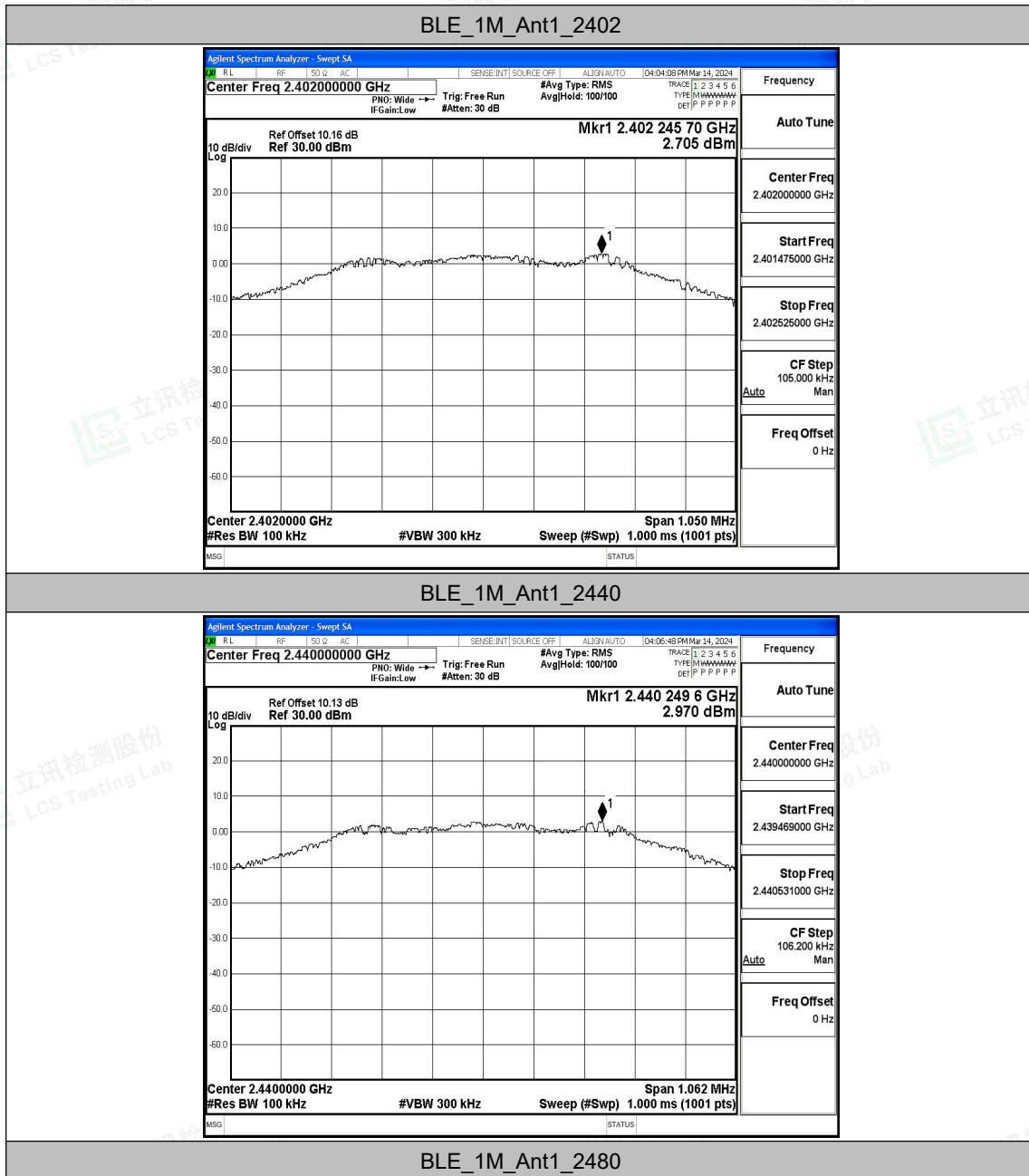
Test Result

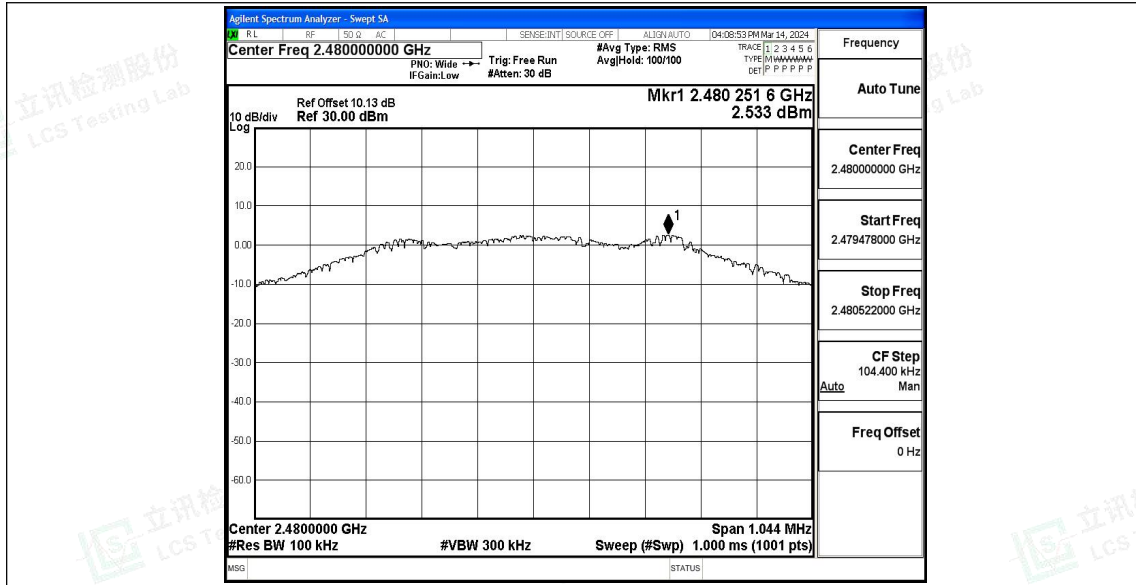
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.25	2.71
		2440	2440.25	2.97
		2480	2480.25	2.53





Test Graphs







A.6 Duty Cycle

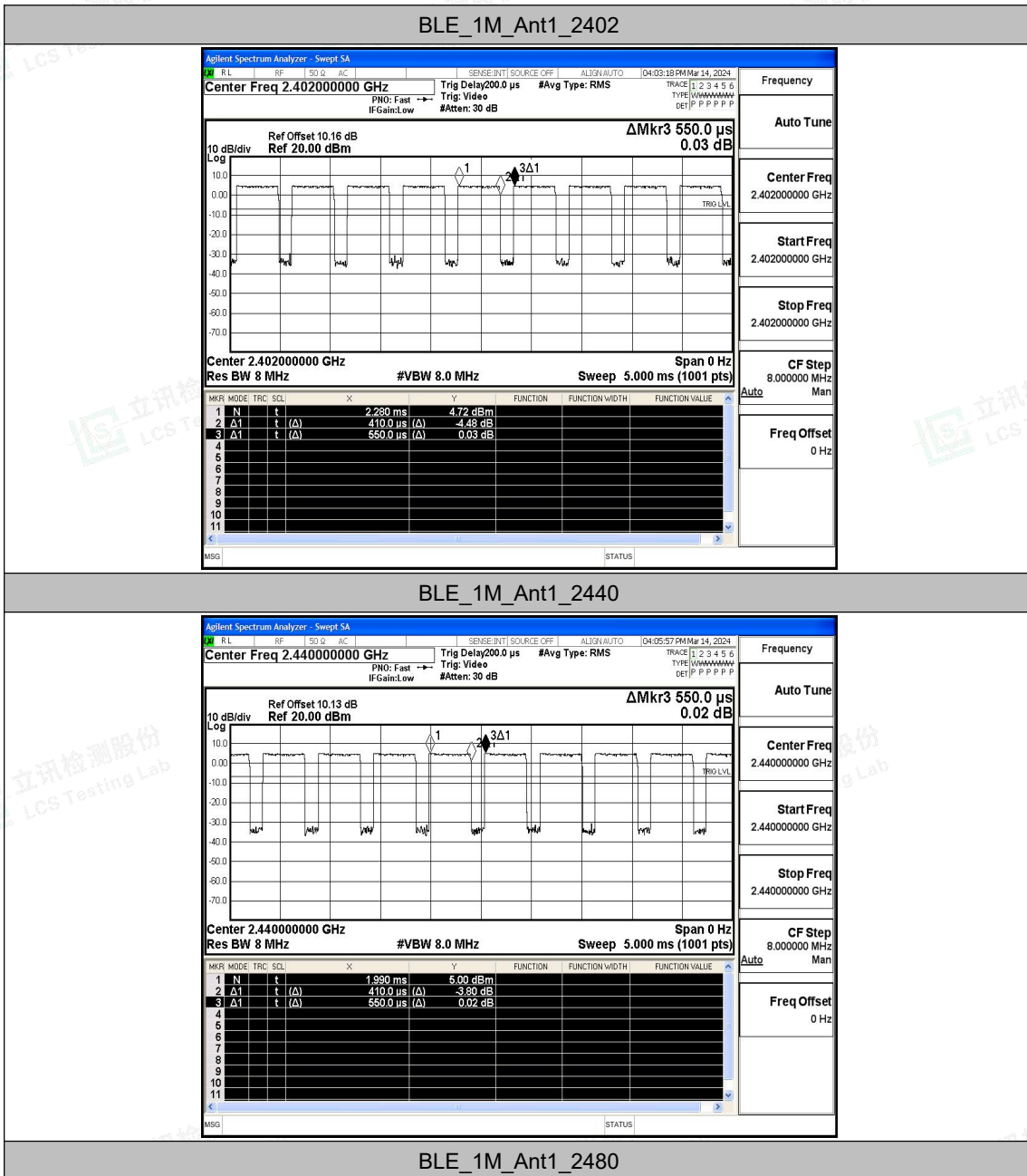
Test Result

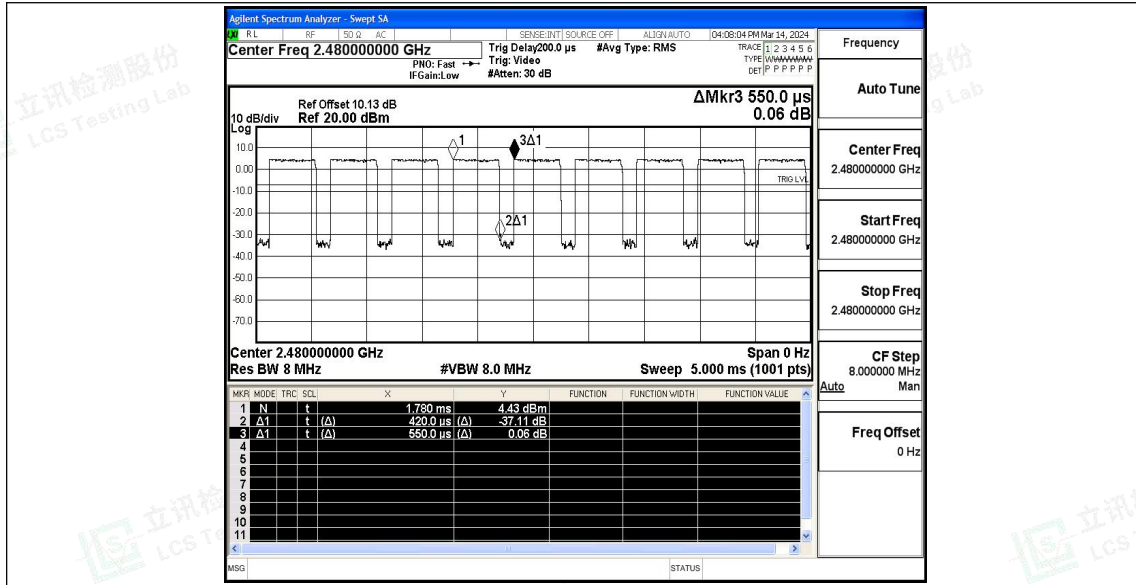
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	0.41	0.55	74.55	1.28	2.44
		2440	0.41	0.55	74.55	1.28	2.44
		2480	0.42	0.55	76.36	1.17	2.38





Test Graphs







A.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2387.150	-45.65	≤-41.20	49.55	≤54	PASS
				AV	2390.000	-46.18	≤-41.20	49.02	≤54	PASS
				Peak	2310.000	-38.45	≤-21.20	56.75	≤74	PASS
				Peak	2388.305	-34.69	≤-21.20	60.51	≤74	PASS
				Peak	2390.000	-38.67	≤-21.20	56.53	≤74	PASS
		High	2480	AV	2483.500	-42	≤-41.20	53.20	≤54	PASS
				AV	2483.600	-41.93	≤-41.20	53.27	≤54	PASS
				AV	2500.000	-46.05	≤-41.20	49.15	≤54	PASS
				Peak	2483.500	-31.25	≤-21.20	63.95	≤74	PASS
				Peak	2484.080	-25.21	≤-21.20	69.99	≤74	PASS
				Peak	2500.000	-37.96	≤-21.20	57.24	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor 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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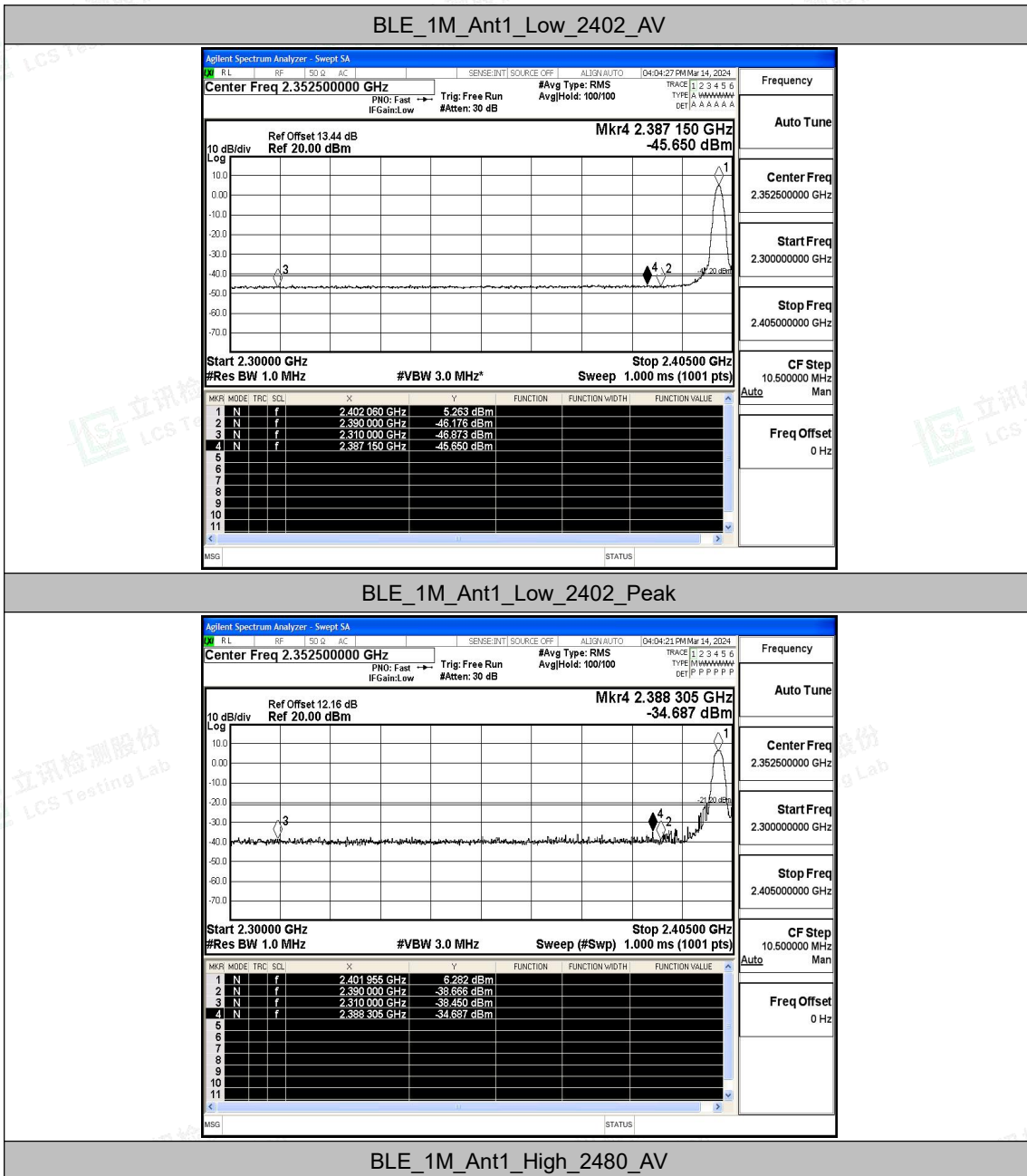
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

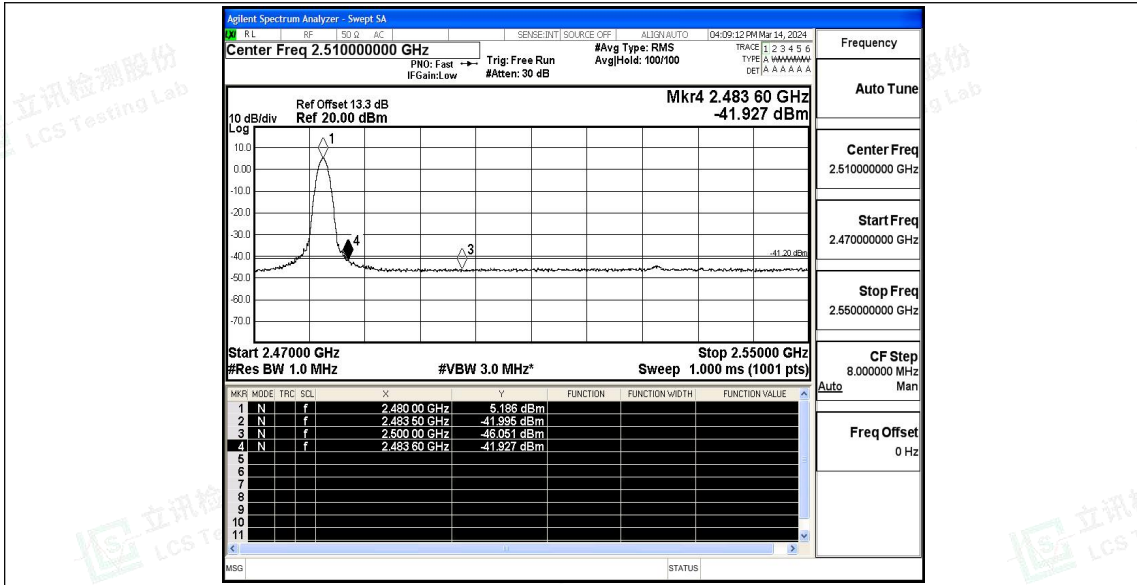
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs





BLE_1M_Ant1_High_2480_Peak

