



## Appendix B

### RF Test Data for BT LE(Conducted Measurement)

Product Name: Tablet PC

Test Model: MW1021P

#### Environmental Conditions

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





## B.1 DTS Bandwidth

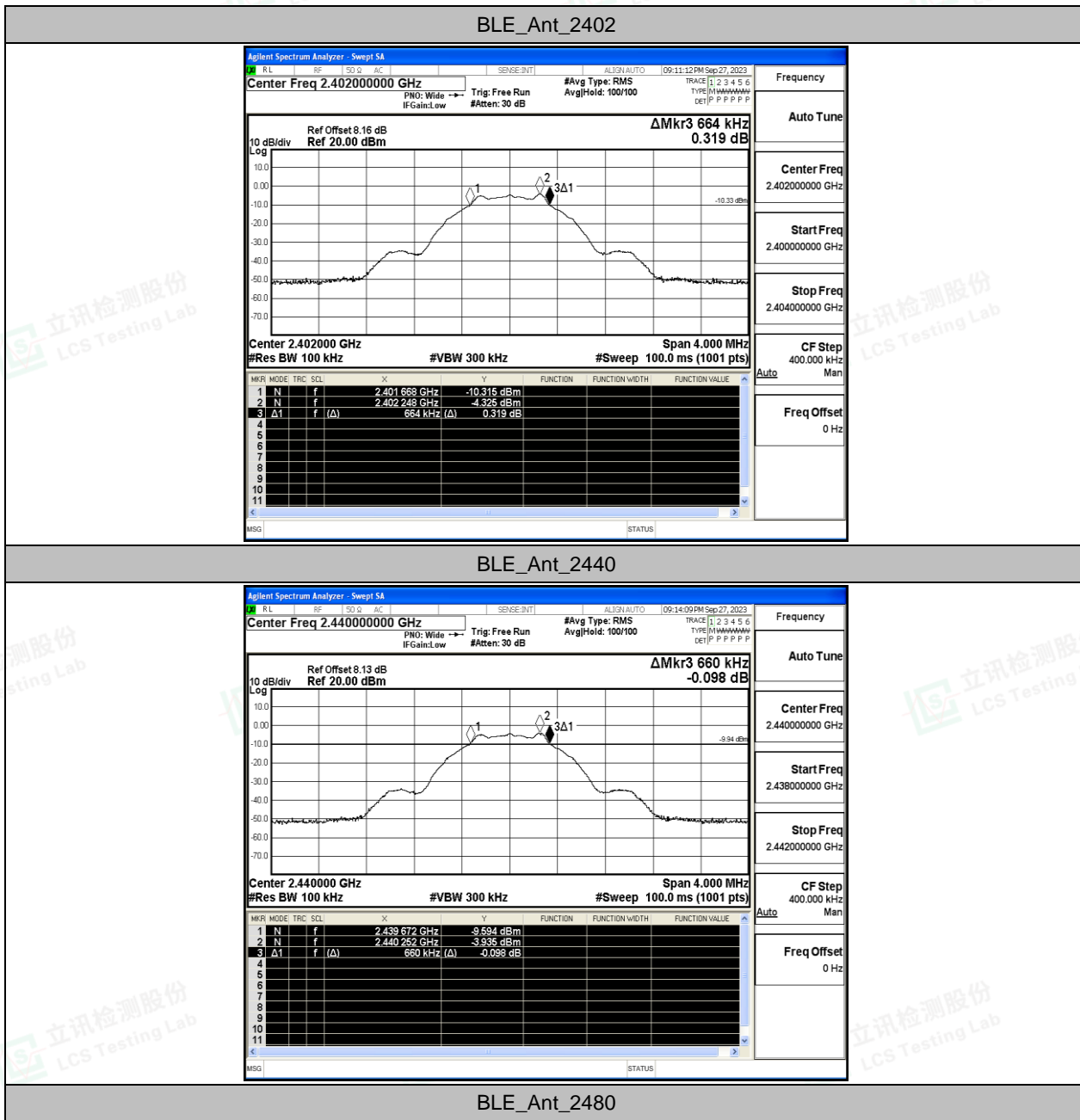
### Test Result

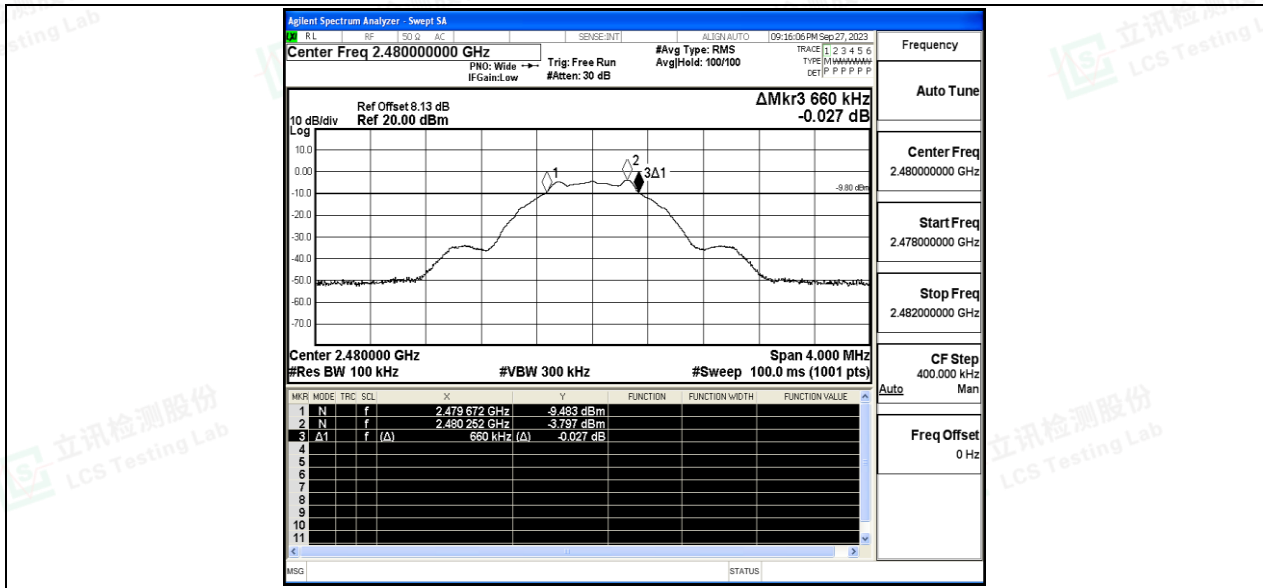
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.664	2401.668	2402.332	0.5	PASS
		2440	0.660	2439.672	2440.332	0.5	PASS
		2480	0.660	2479.672	2480.332	0.5	PASS





### Test Graphs







## B.2 Maximum conducted output power

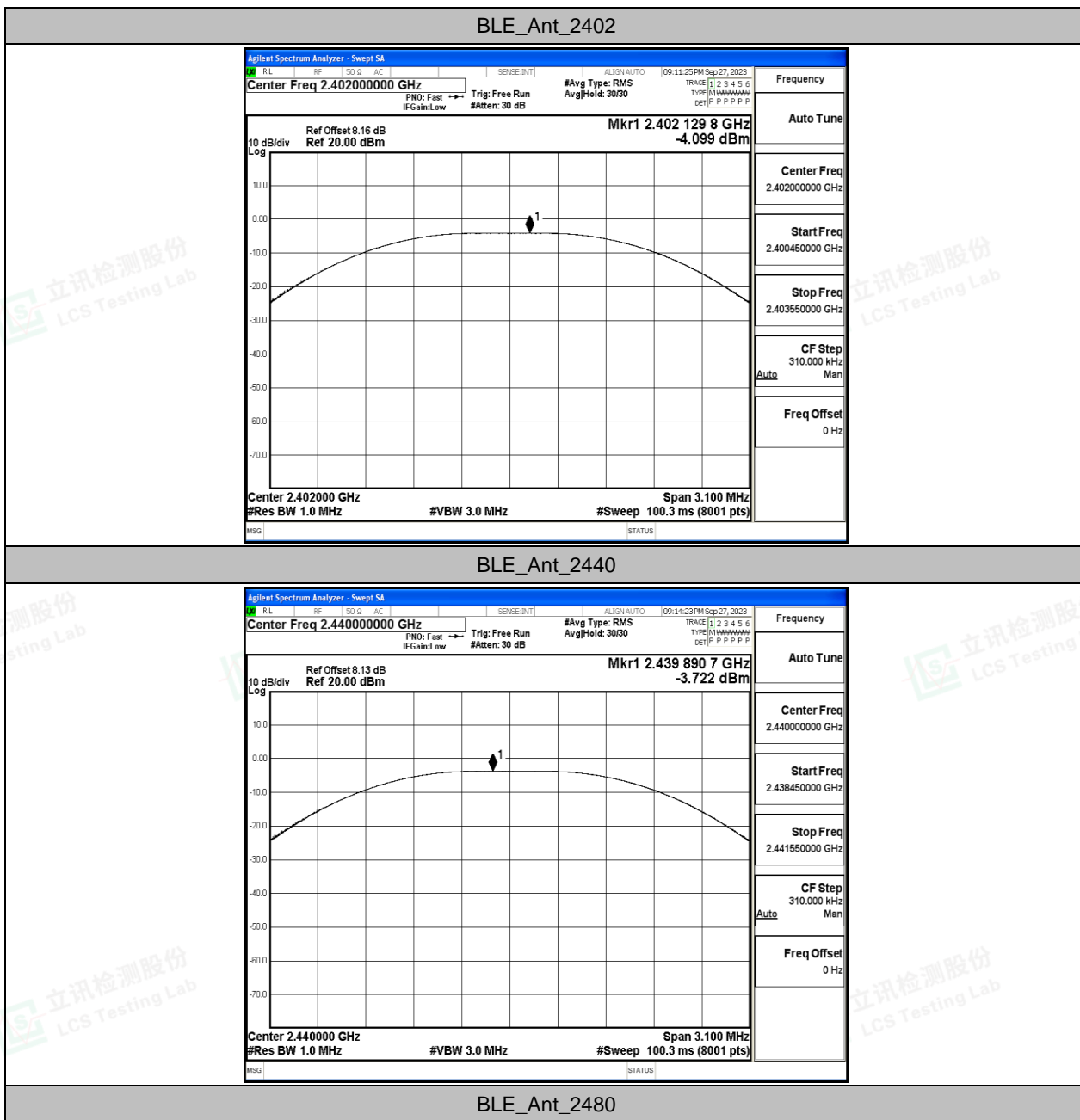
### Test Result

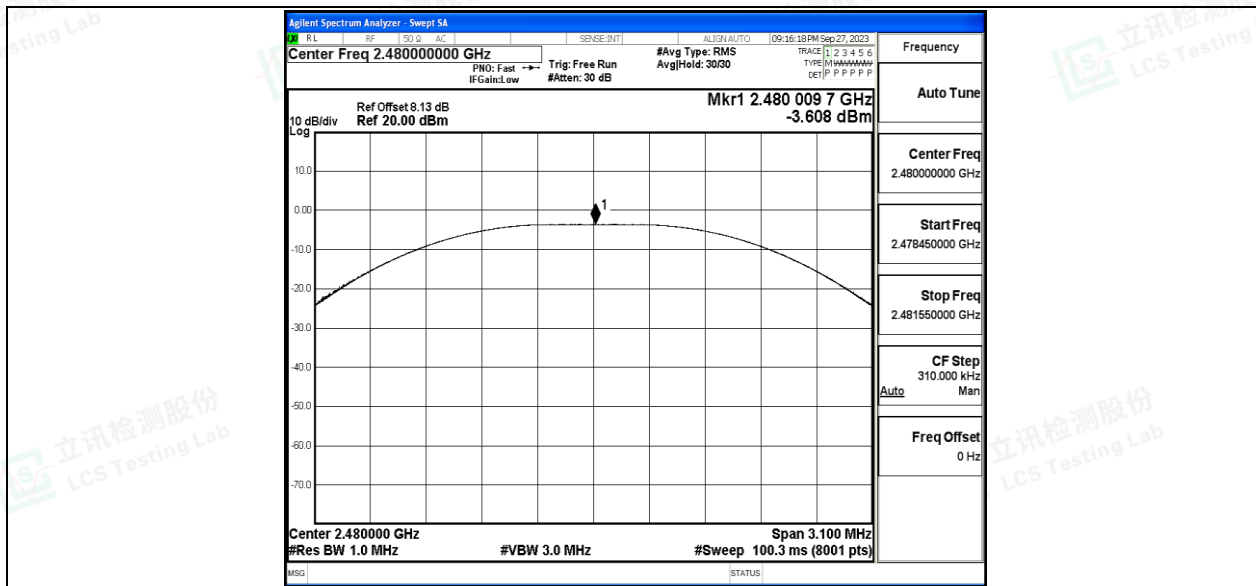
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-4.1	≤30	PASS
		2440	-3.72	≤30	PASS
		2480	-3.61	≤30	PASS





### Test Graphs







### B.3 Maximum power spectral density

#### Test Result

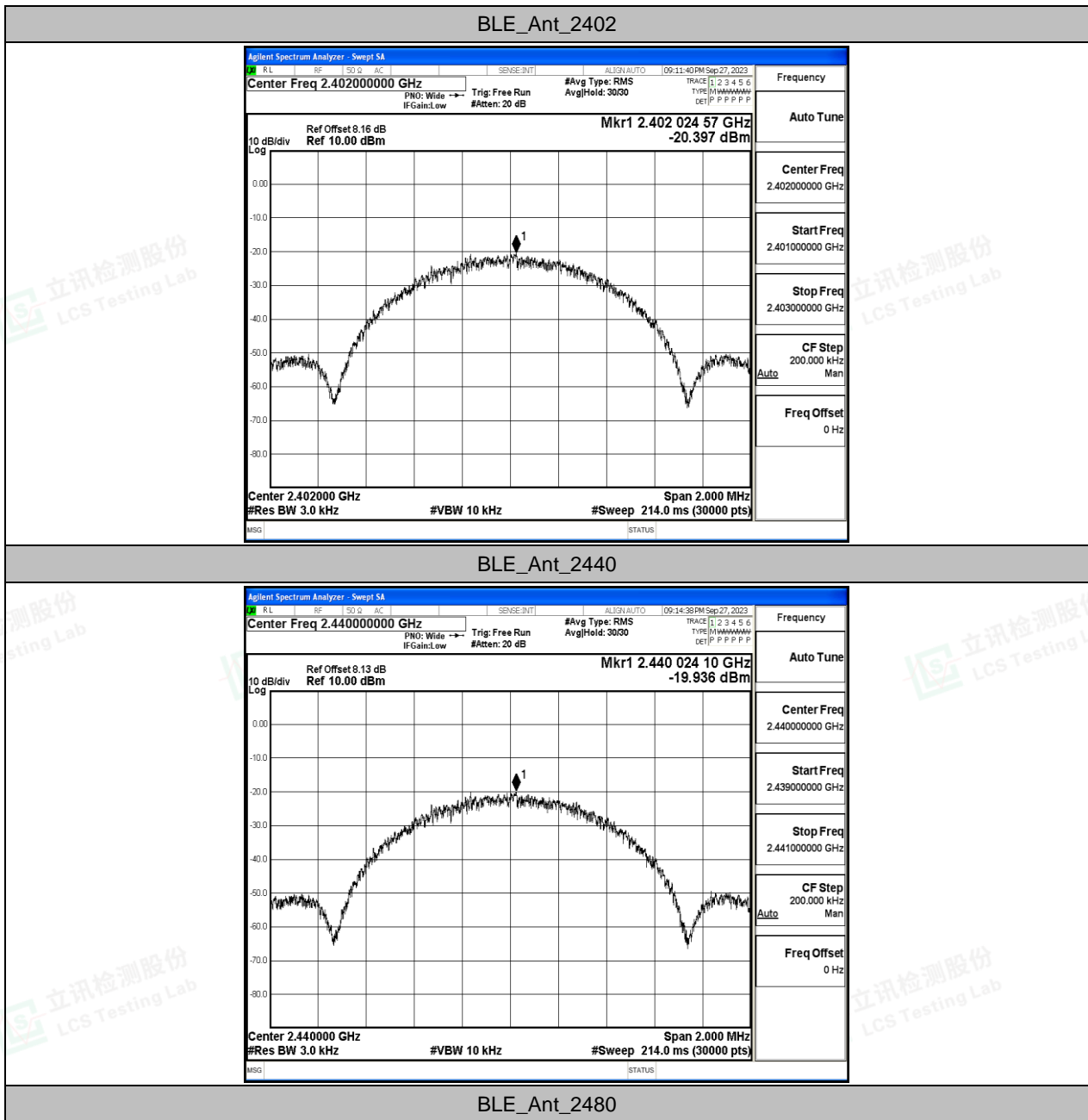
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-20.4	≤8.00	PASS
		2440	-19.94	≤8.00	PASS
		2480	-20.12	≤8.00	PASS

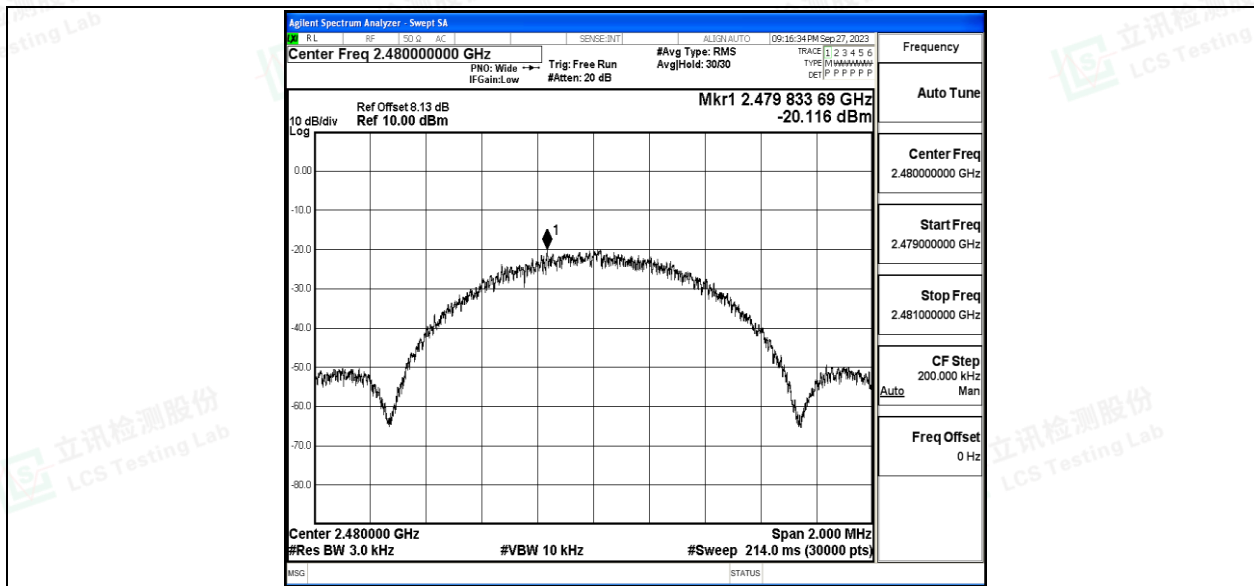






### Test Graphs







## B.4 Band edge measurements

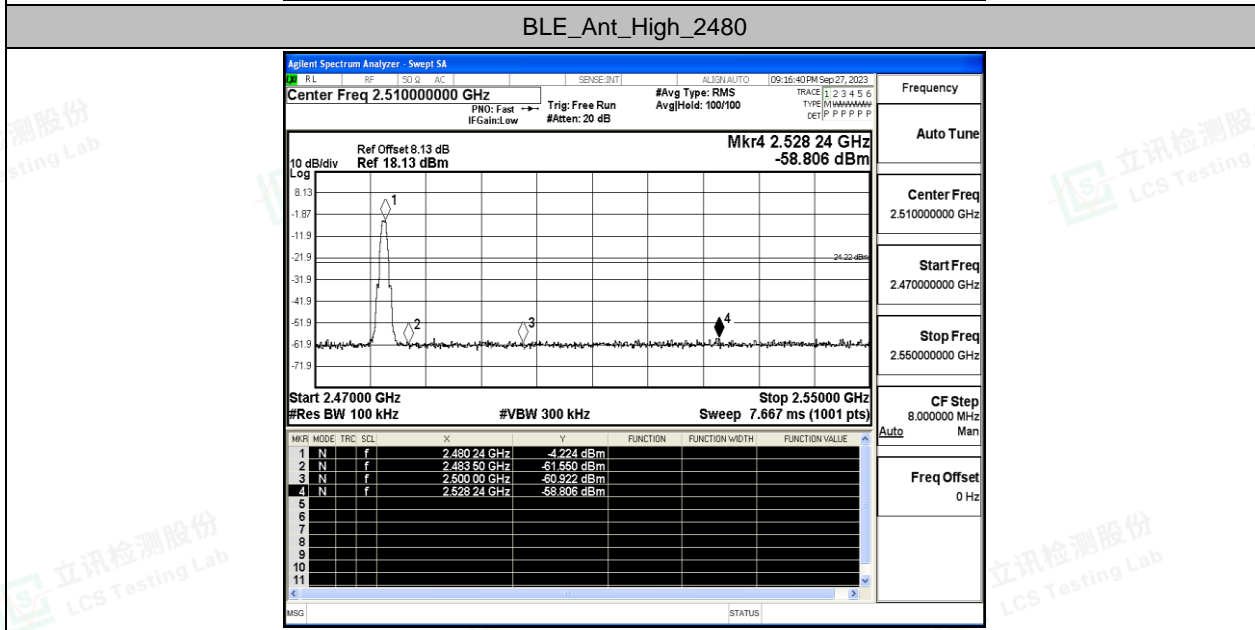
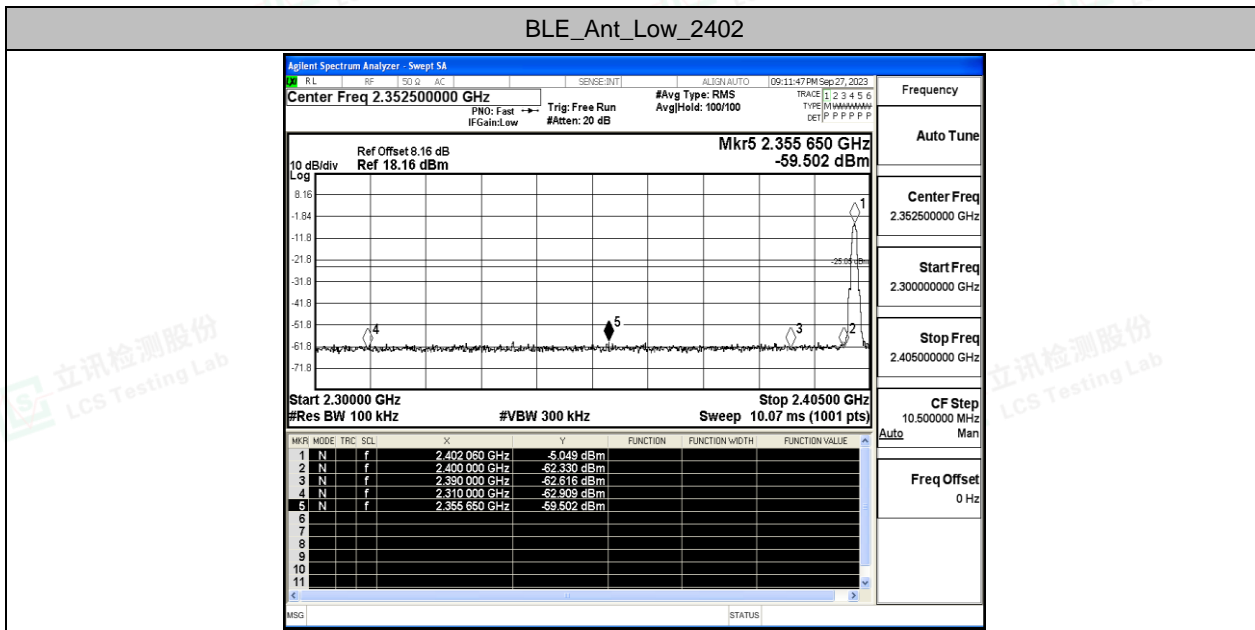
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-5.05	-59.5	≤-25.05	PASS
		High	2480	-4.22	-58.81	≤-24.22	PASS





### Test Graphs





### B.5 Conducted Spurious Emission

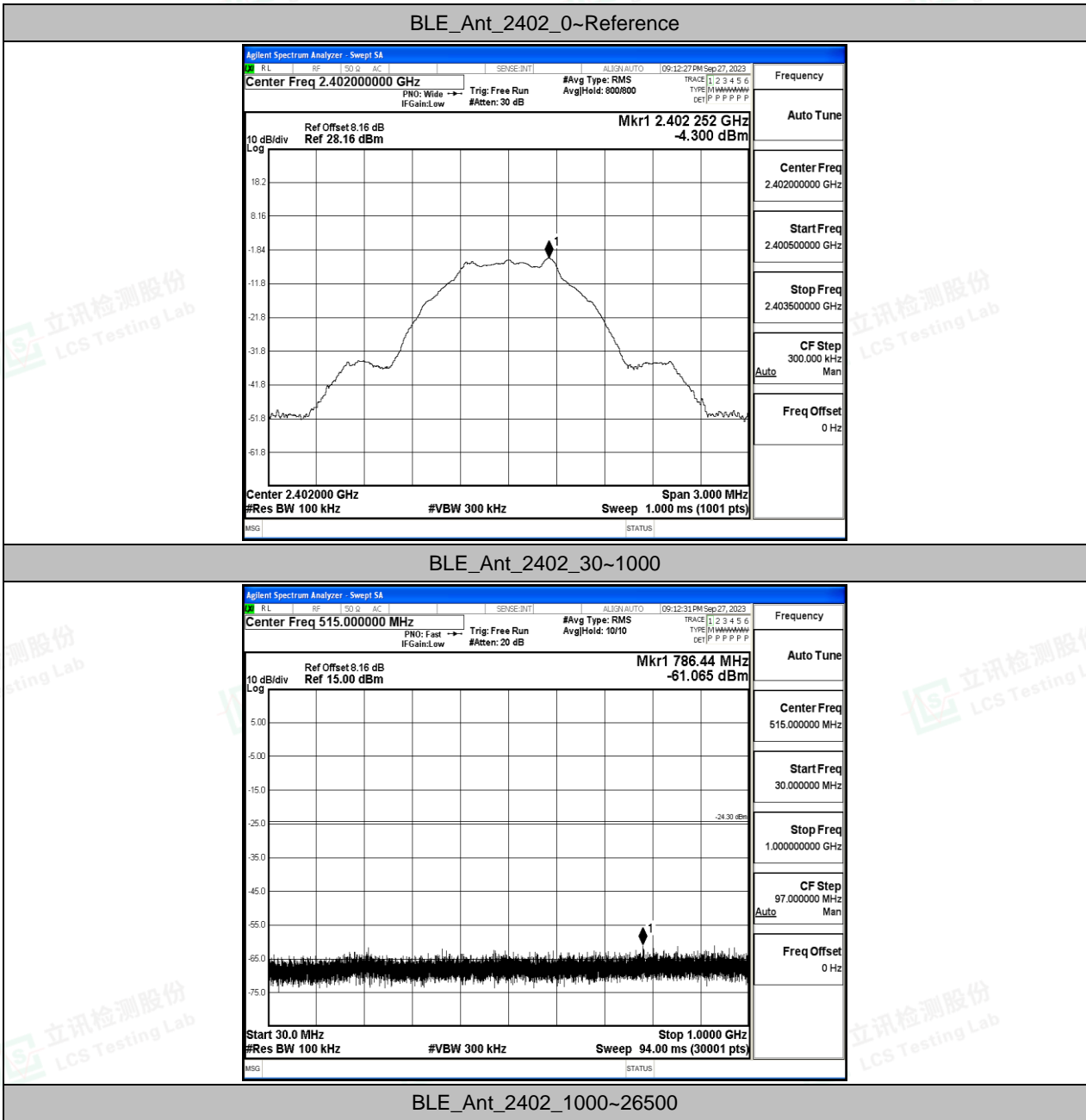
#### Test Result

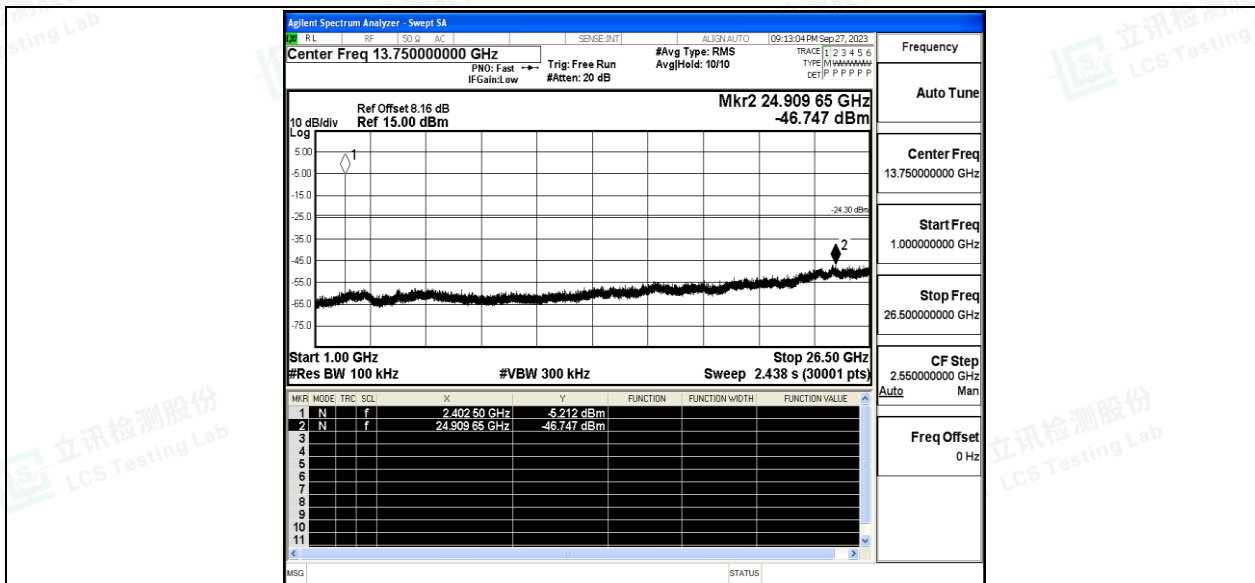
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-61.07	≤-24.3	PASS
			1000~26500	-4.30	-46.75	≤-24.3	PASS
		2440	Reference	-3.93	-3.93	---	PASS
			30~1000	-3.93	-61.62	≤-23.93	PASS
			1000~26500	-3.93	-47.02	≤-23.93	PASS
		2480	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-61.46	≤-23.81	PASS
			1000~26500	-3.81	-46.31	≤-23.81	PASS



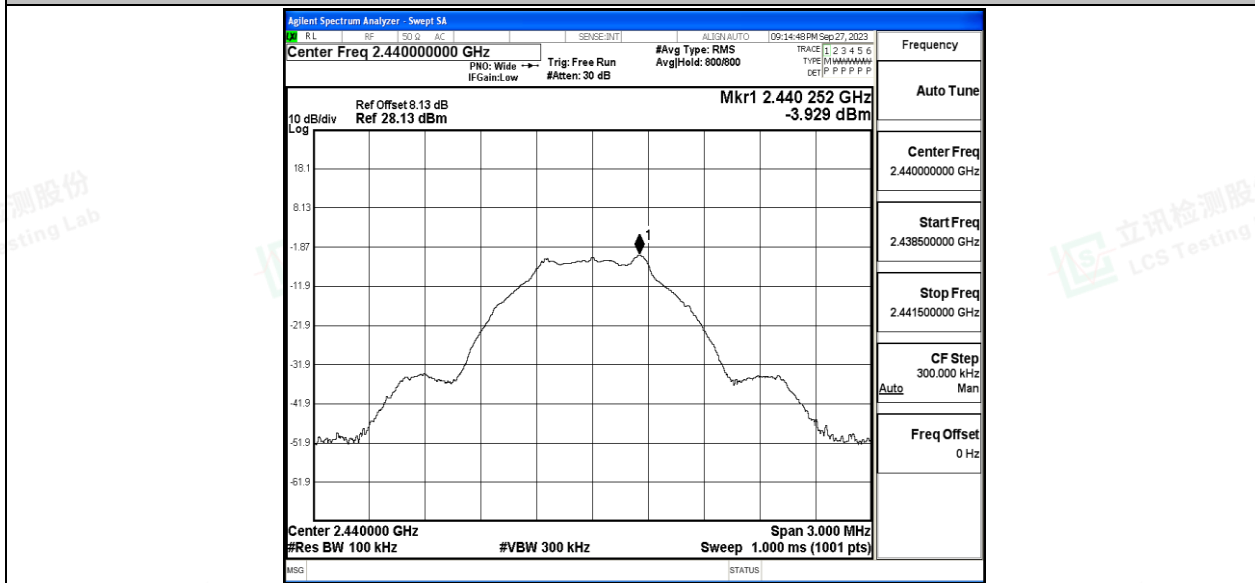


### Test Graphs



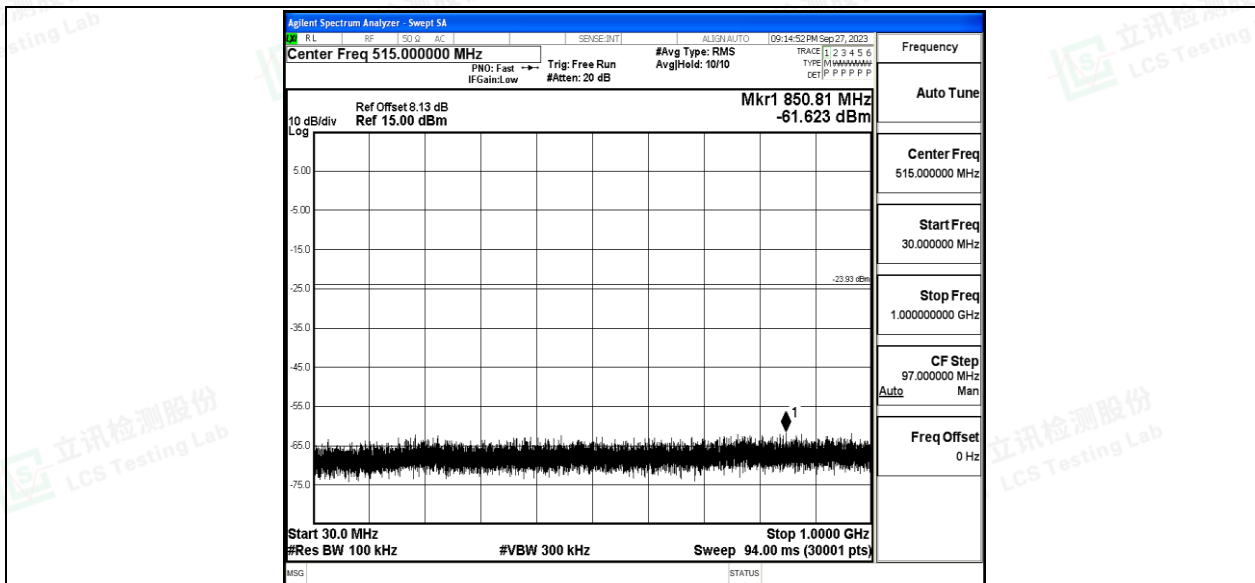


BLE\_Ant\_2440\_0~Reference

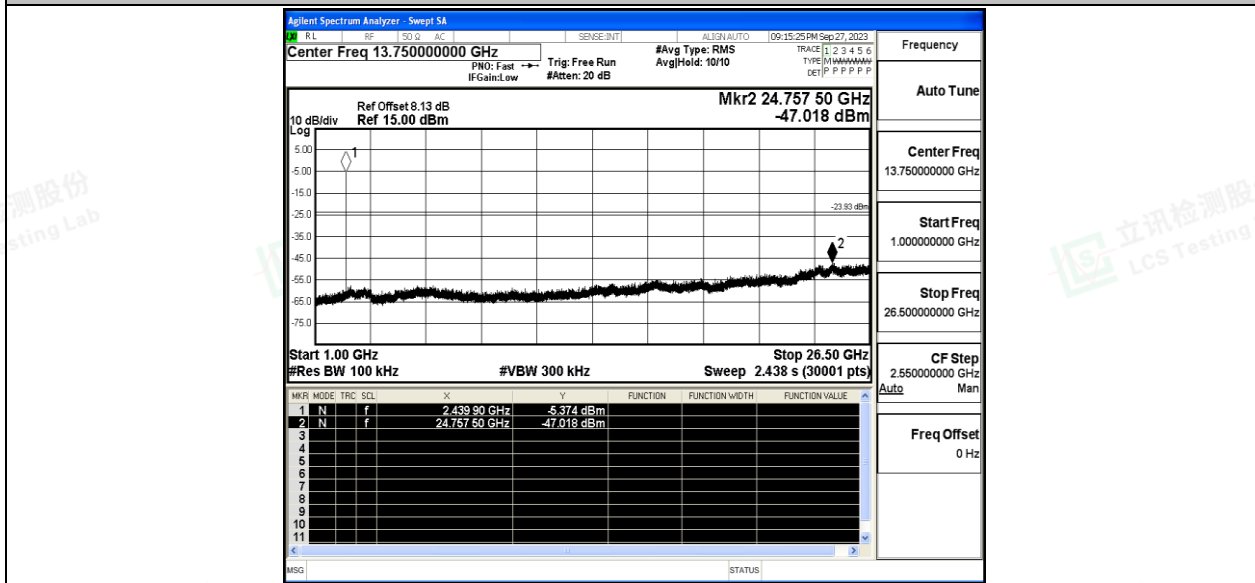


BLE\_Ant\_2440\_30~1000





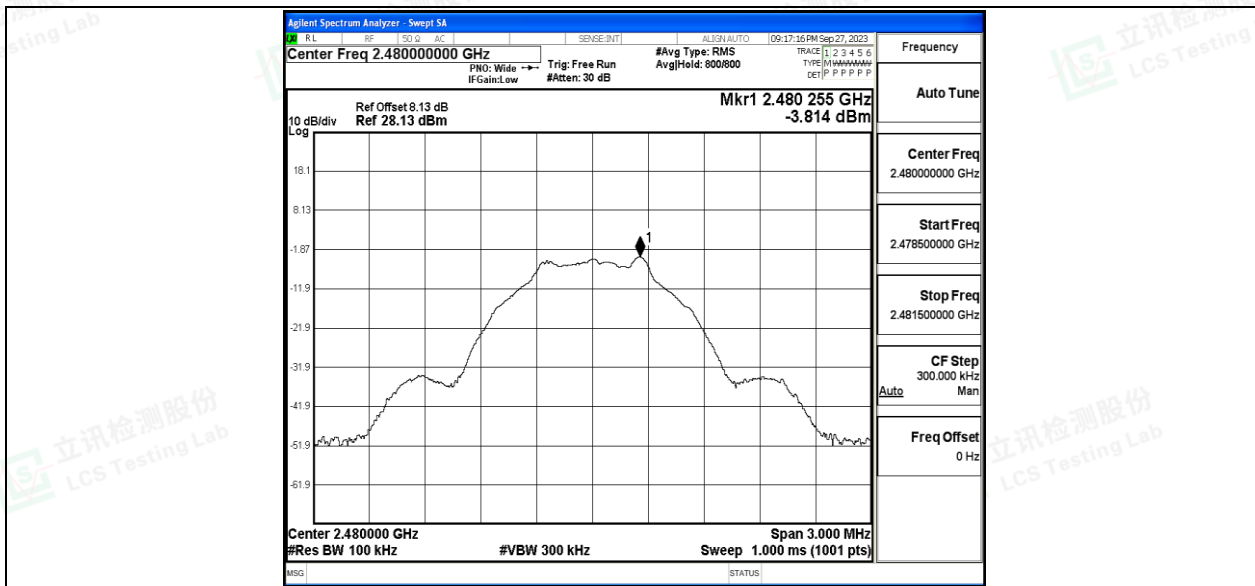
BLE\_Ant\_2440\_1000~26500



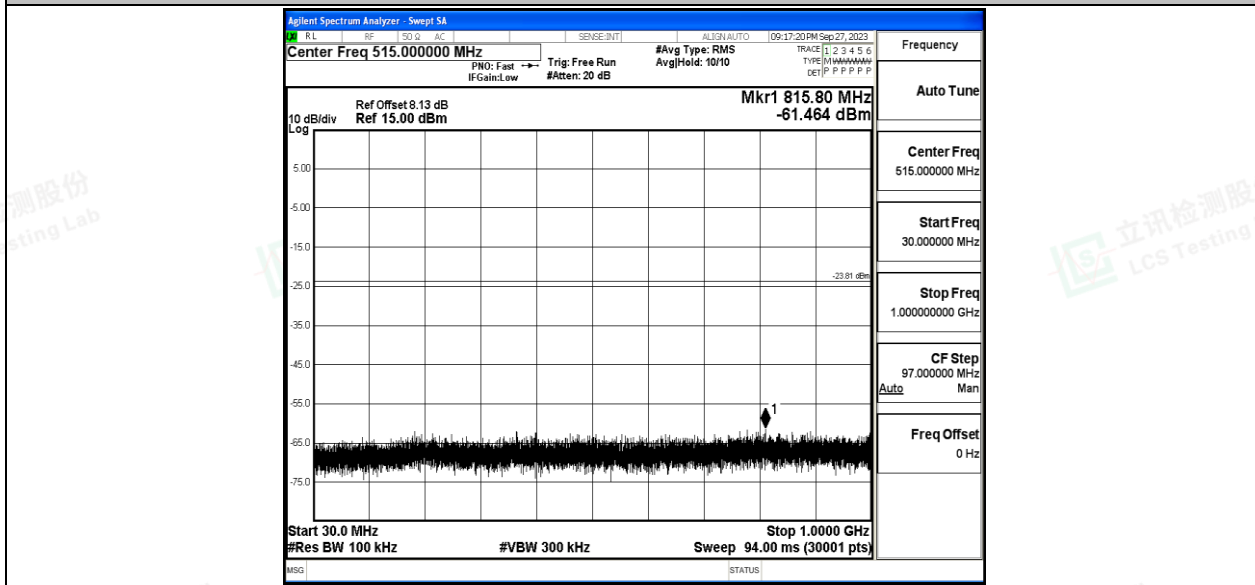
BLE\_Ant\_2480\_0~Reference





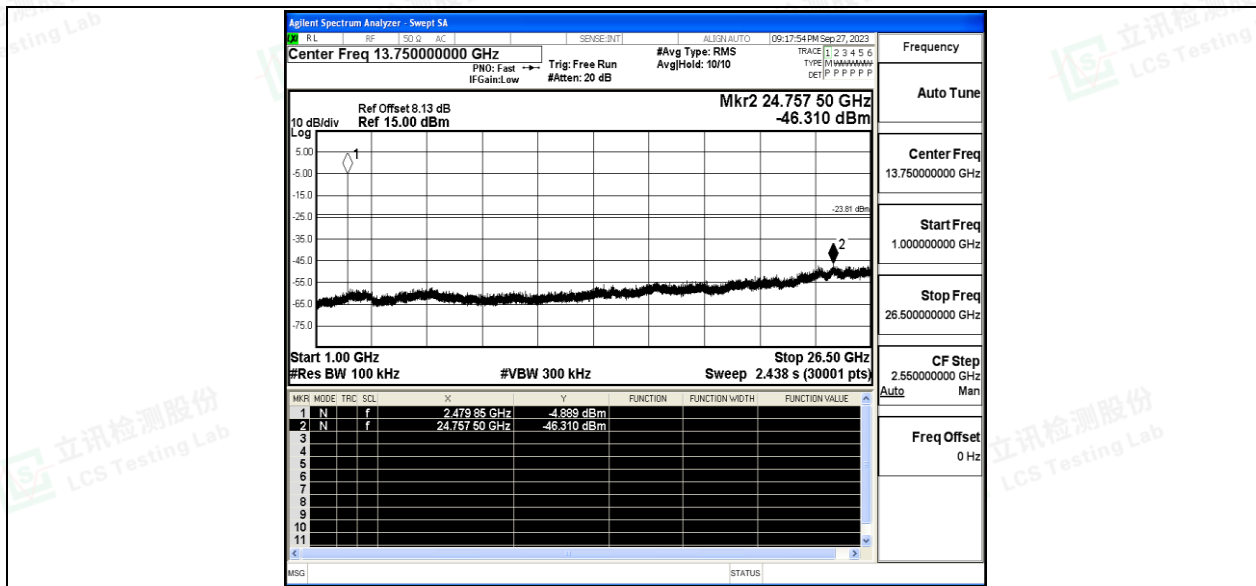


BLE\_Ant\_2480\_30~1000



BLE\_Ant\_2480\_1000~26500







## B.6 Duty Cycle

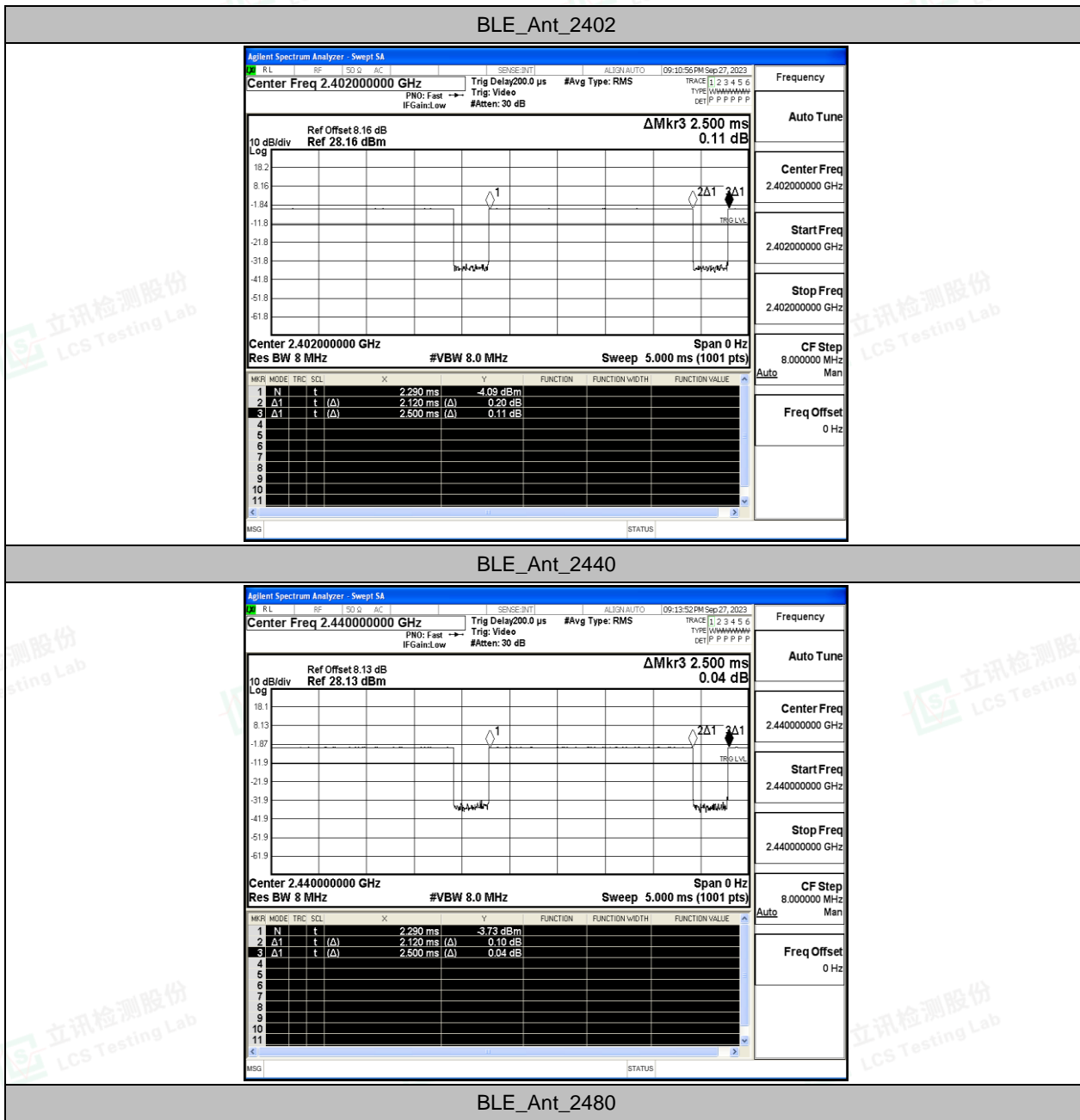
### Test Result

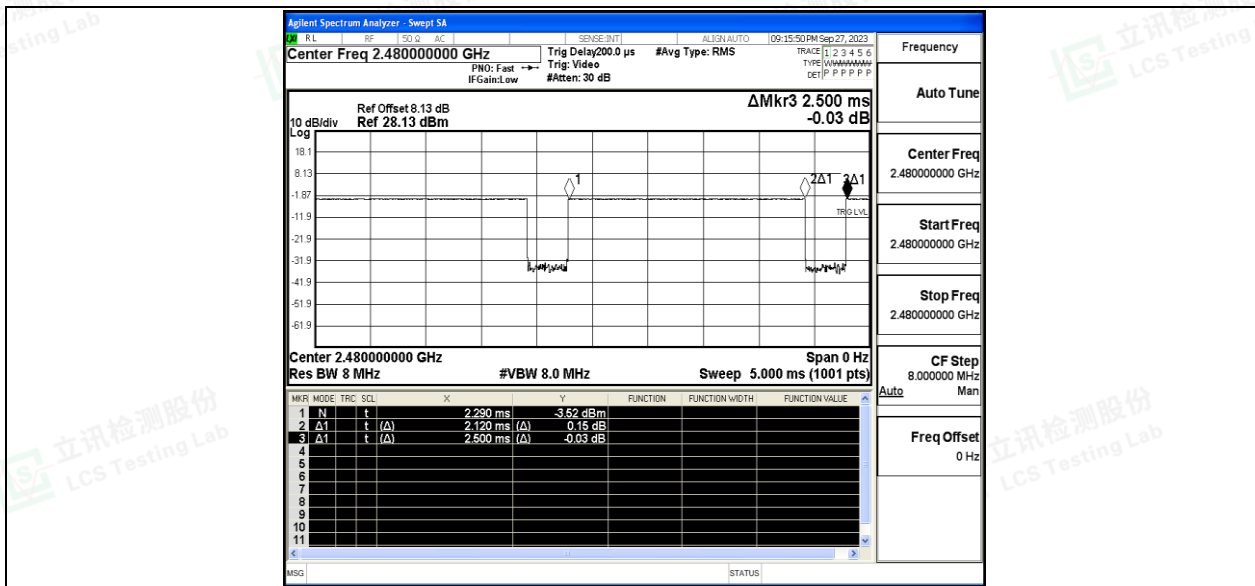
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	2.12	2.50	0.8480	84.80	0.72	0.47	---	---
		2440	2.12	2.50	0.8480	84.80	0.72	0.47	---	---
		2480	2.12	2.50	0.8480	84.80	0.72	0.47	---	---





### Test Graphs







### B.7 Emissions in Restricted Bands

#### Test Result

TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict	
BLE	Ant	Low	2402	AV	2310.000	-58.43	≤-41.20	36.77	≤54	PASS
				AV	2388.620	-57.89	≤-41.20	37.31	≤54	PASS
				AV	2390.000	-57.91	≤-41.20	37.29	≤54	PASS
				Peak	2310.000	-51.3	≤-21.20	43.90	≤74	PASS
				Peak	2337.275	-48.4	≤-21.20	46.80	≤74	PASS
				Peak	2390.000	-50.93	≤-21.20	44.27	≤74	PASS
		High	2480	AV	2483.500	-55.98	≤-41.20	39.22	≤54	PASS
				AV	2483.520	-55.98	≤-41.20	39.22	≤54	PASS
				AV	2500.000	-57.41	≤-41.20	37.79	≤54	PASS
				Peak	2483.500	-50.64	≤-21.20	44.56	≤74	PASS
				Peak	2487.120	-48.37	≤-21.20	46.83	≤74	PASS
				Peak	2500.000	-49.68	≤-21.20	45.52	≤74	PASS

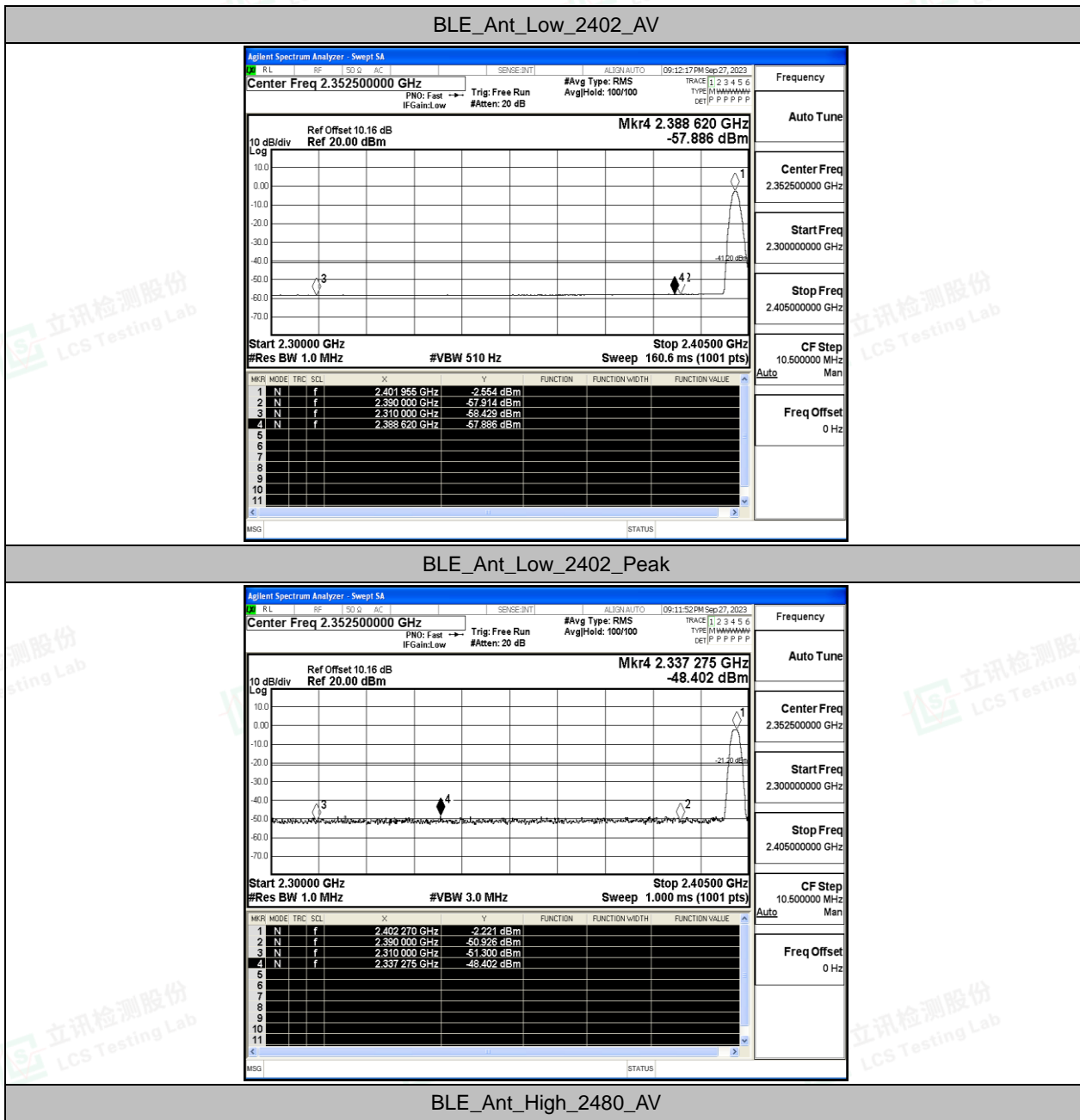
Note:

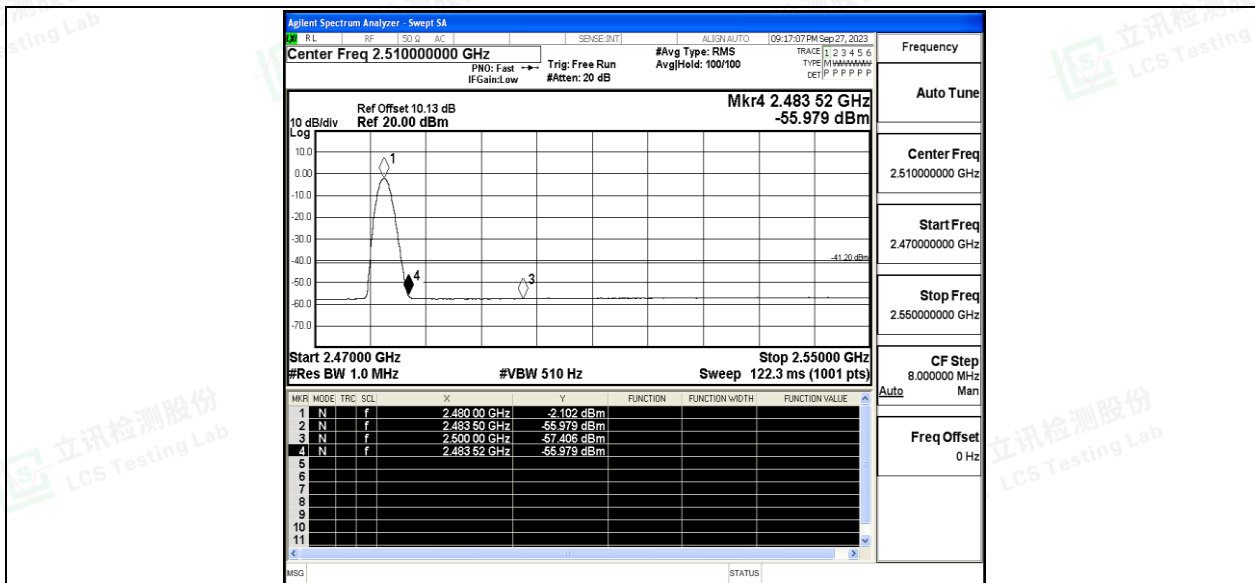
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





### Test Graphs





BLE\_Ant\_High\_2480\_Peak

