



## Appendix A

### RF Test Data for BLE (Conducted Measurement)

**Product Name: Scale Pad**

**Test Model: VS1600W22T**

#### Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu





## A.1 DTS Bandwidth

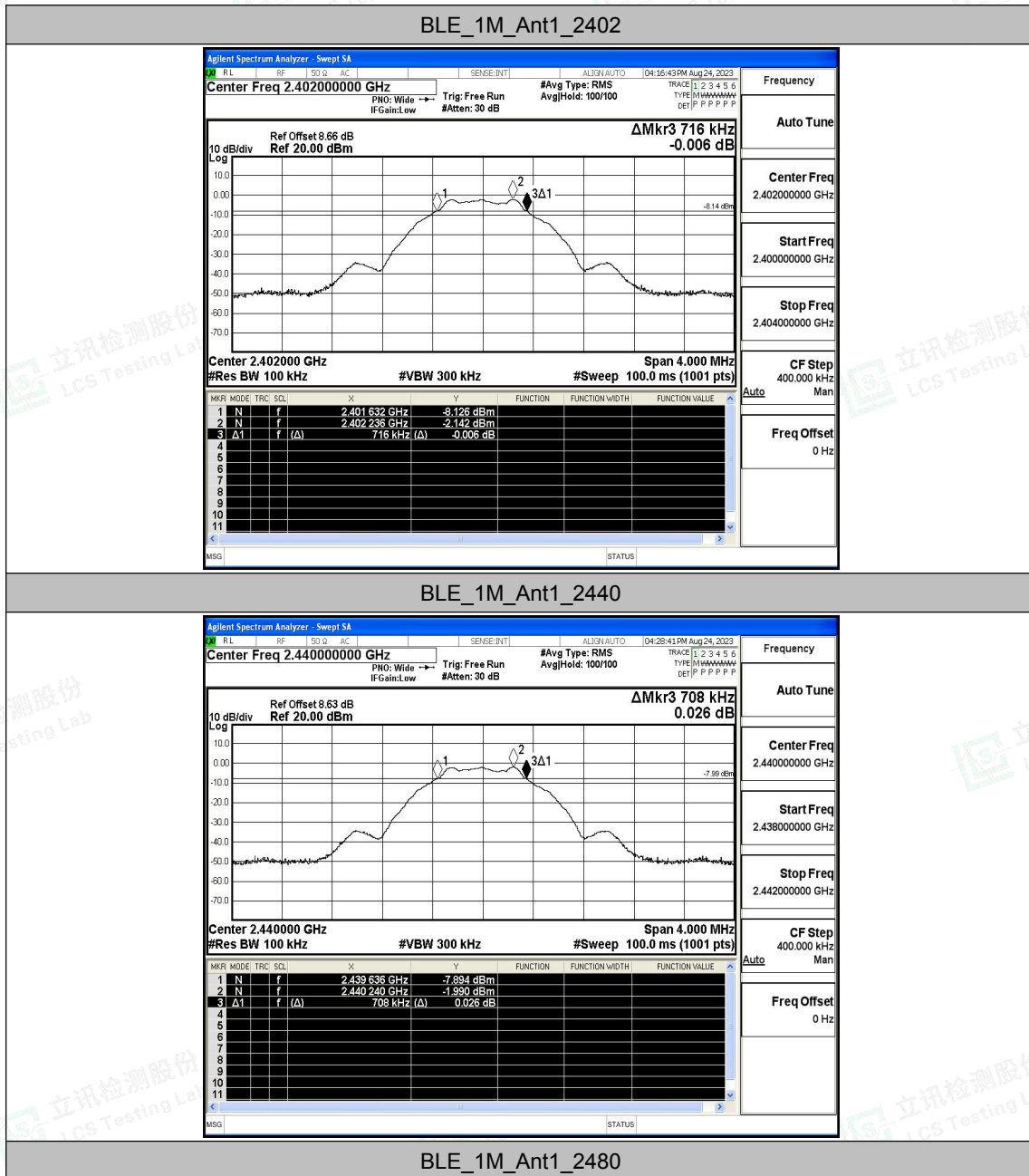
### Test Result

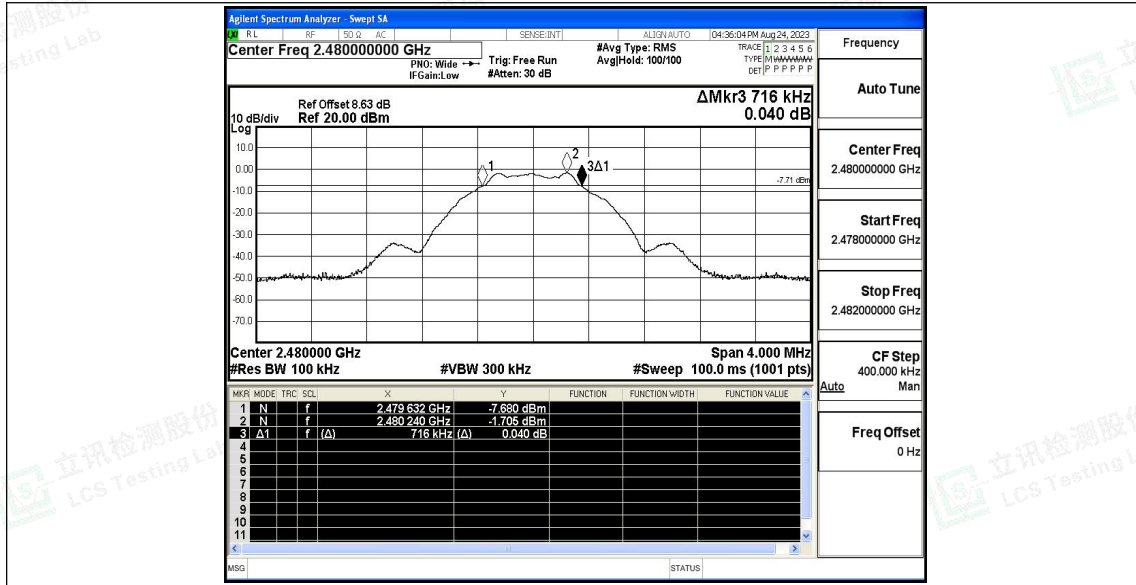
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.632	2402.348	0.5	PASS
		2440	0.708	2439.636	2440.344	0.5	PASS
		2480	0.716	2479.632	2480.348	0.5	PASS





### Test Graphs







## A.2 Maximum conducted output power

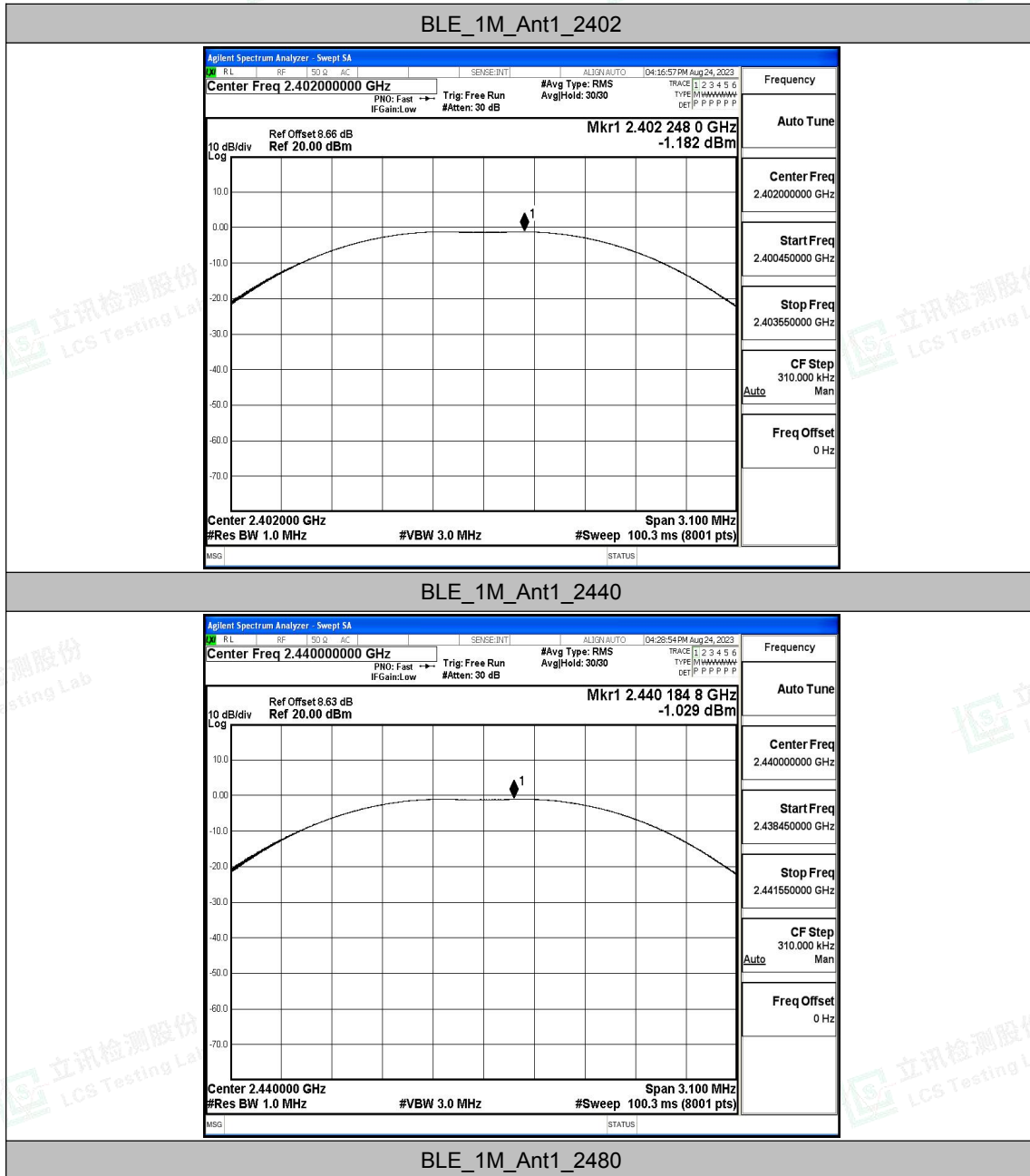
### Test Result

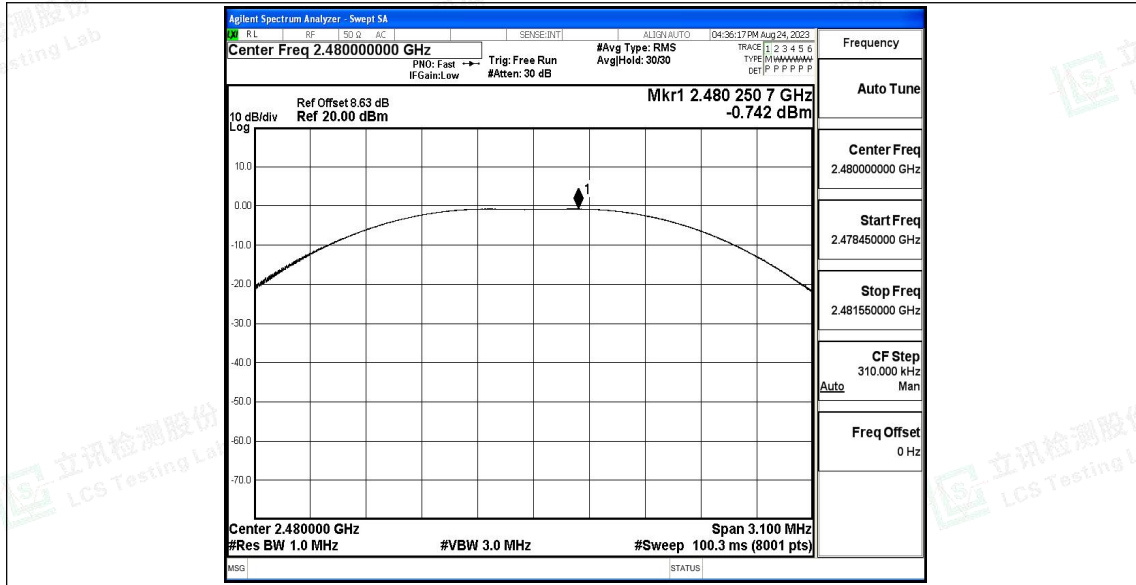
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.18	≤30	PASS
		2440	-1.03	≤30	PASS
		2480	-0.74	≤30	PASS





### 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



### A.3 Maximum power spectral density

#### Test Result

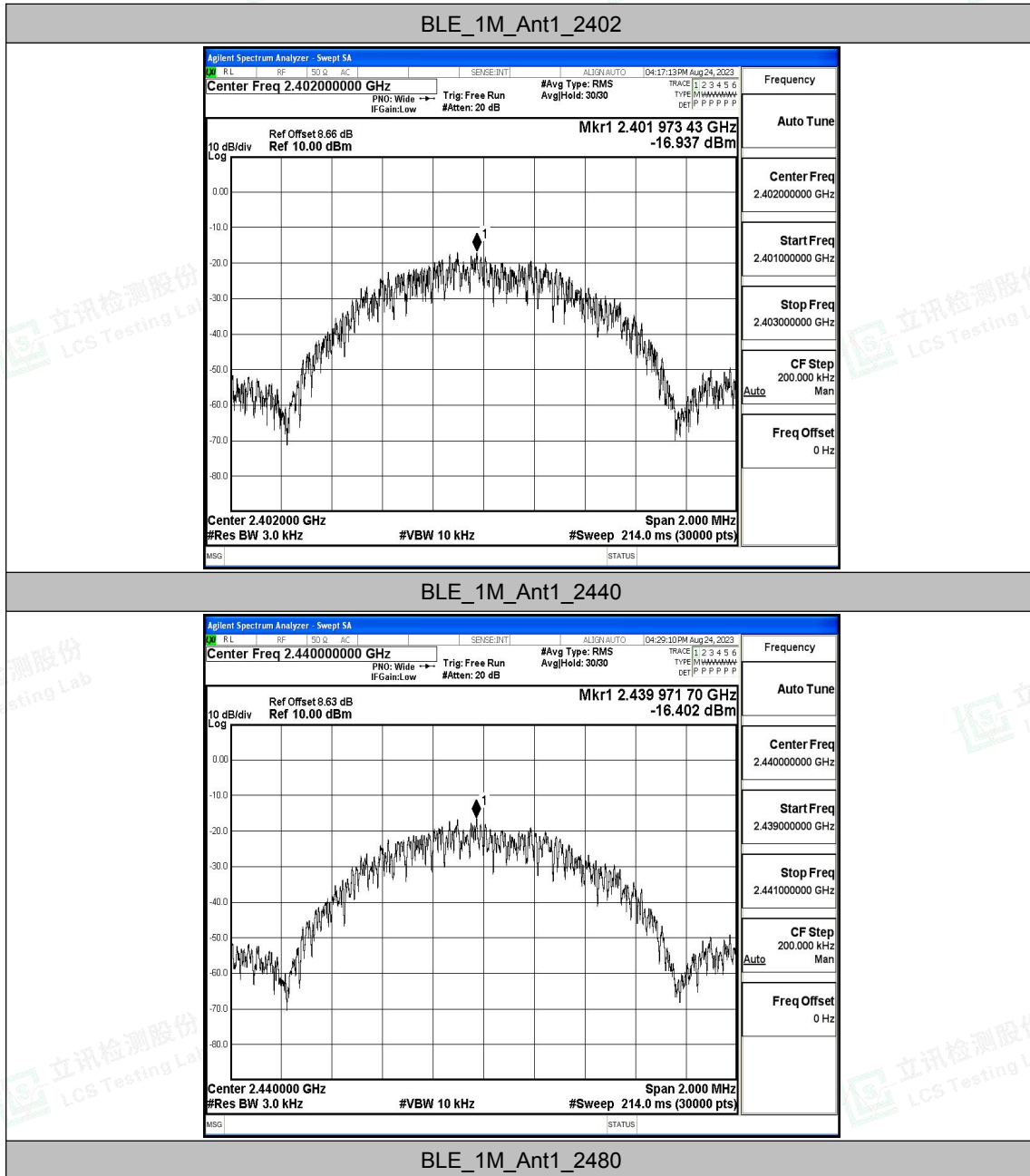
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.94	≤8.00	PASS
		2440	-16.4	≤8.00	PASS
		2480	-16.08	≤8.00	PASS

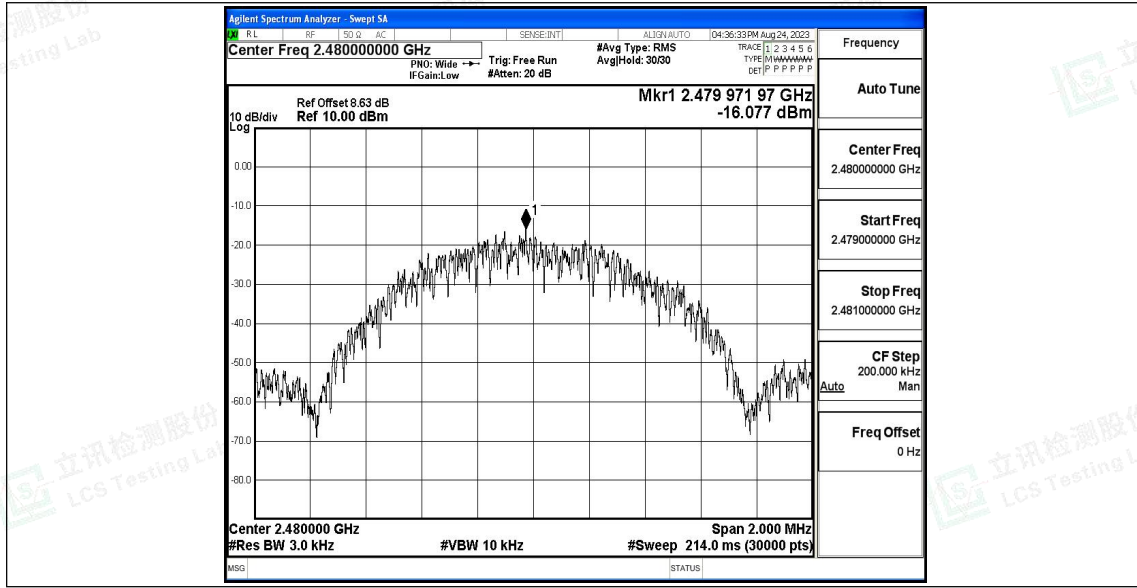






### Test Graphs





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 Scan code to check authenticity



## A.4 Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.17	-59.69	≤-22.17	PASS
		High	2480	-1.85	-57.98	≤-21.85	PASS





### Test Graphs





### A.5 Conducted Spurious Emission

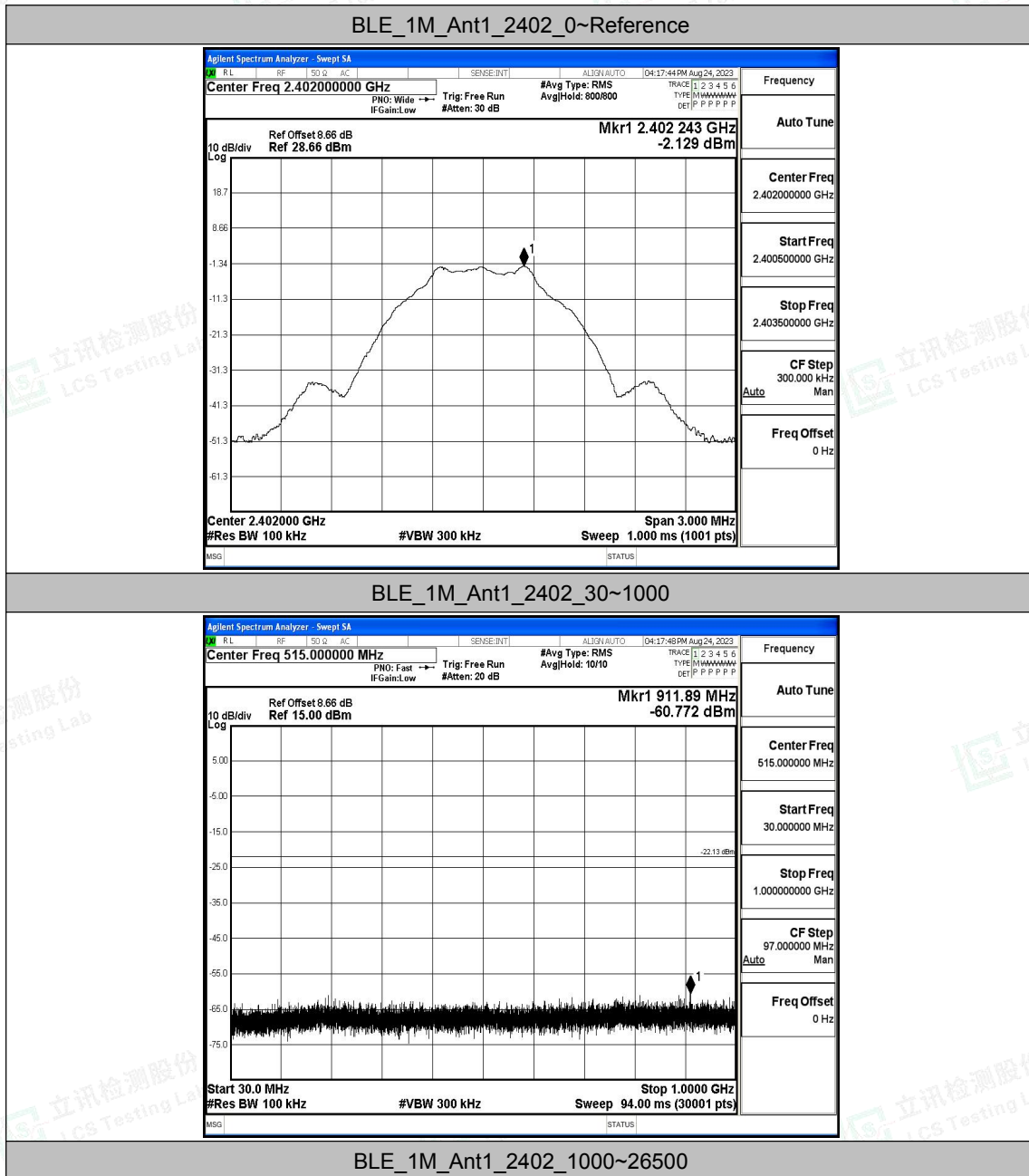
#### Test Result

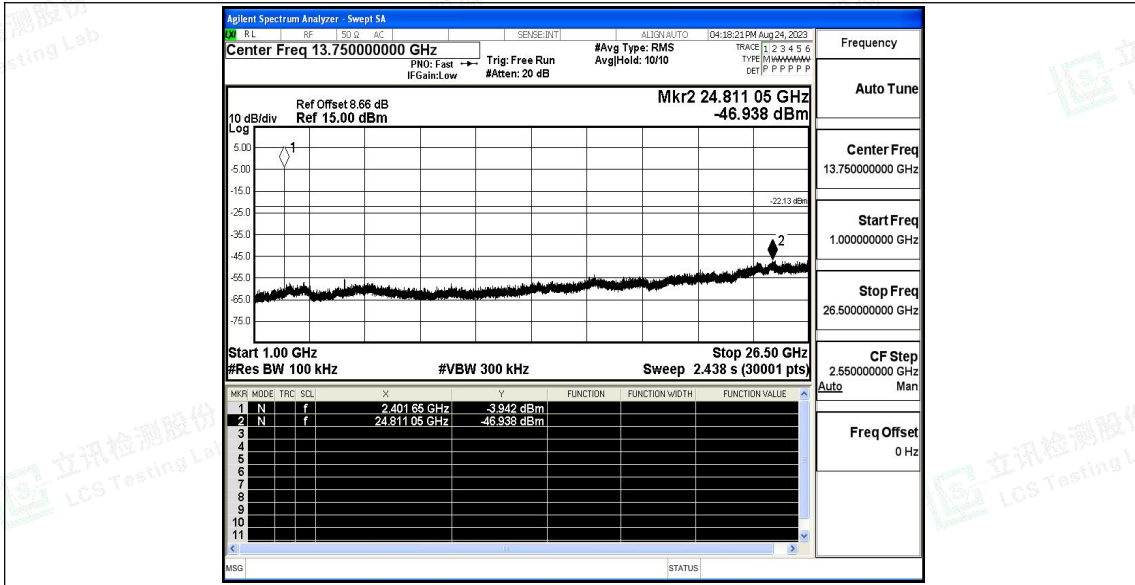
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-60.77	≤-22.13	PASS
			1000~26500	-2.13	-46.94	≤-22.13	PASS
		2440	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-60.94	≤-21.97	PASS
			1000~26500	-1.97	-46.63	≤-21.97	PASS
		2480	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-61.78	≤-21.7	PASS
			1000~26500	-1.70	-46.69	≤-21.7	PASS



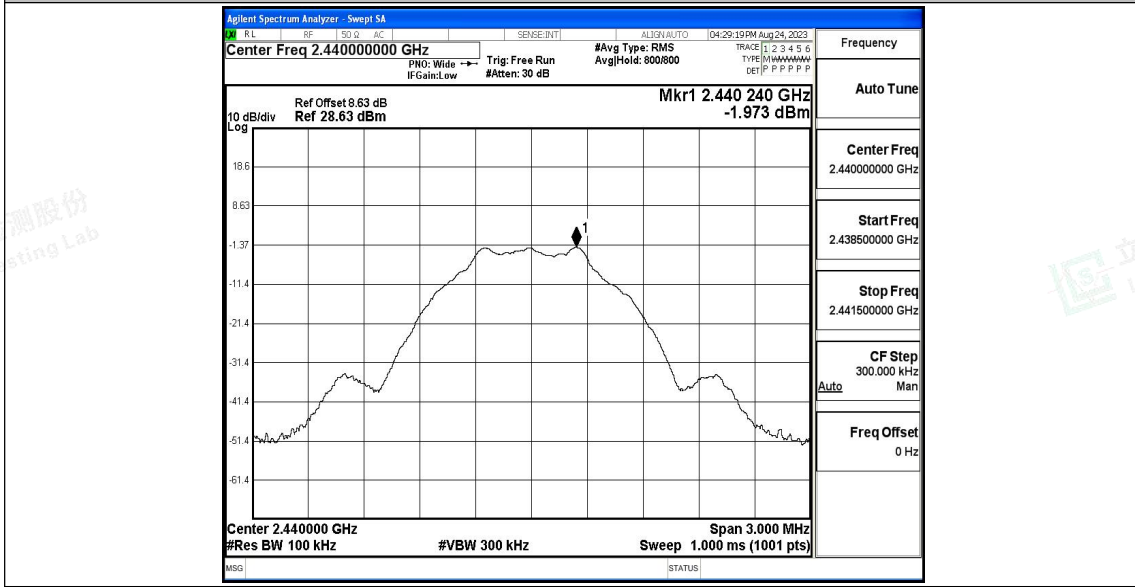


### Test Graphs





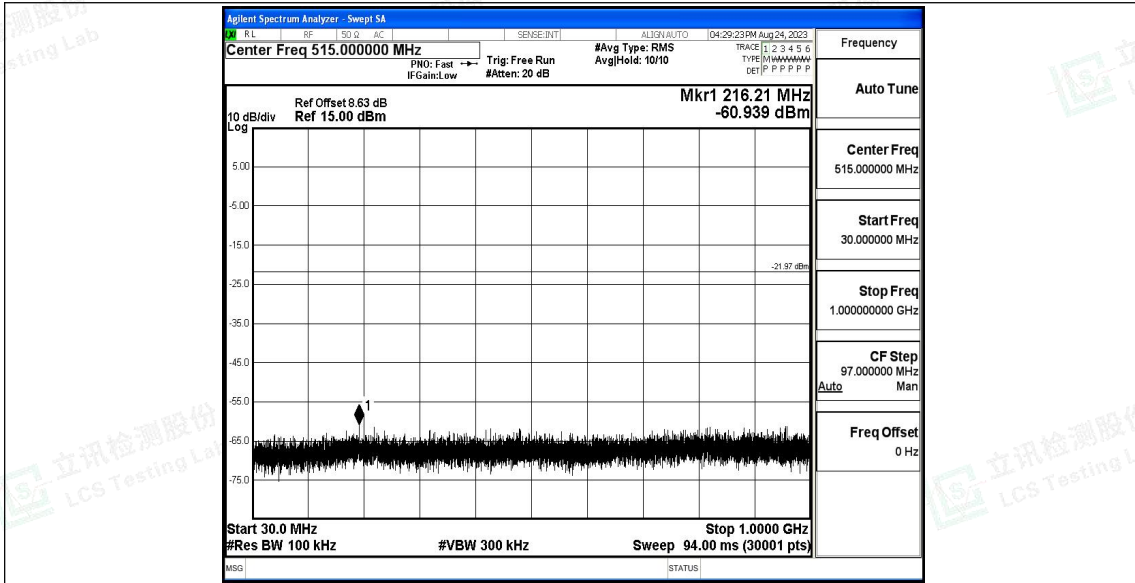
BLE\_1M\_Ant1\_2440\_0~Reference



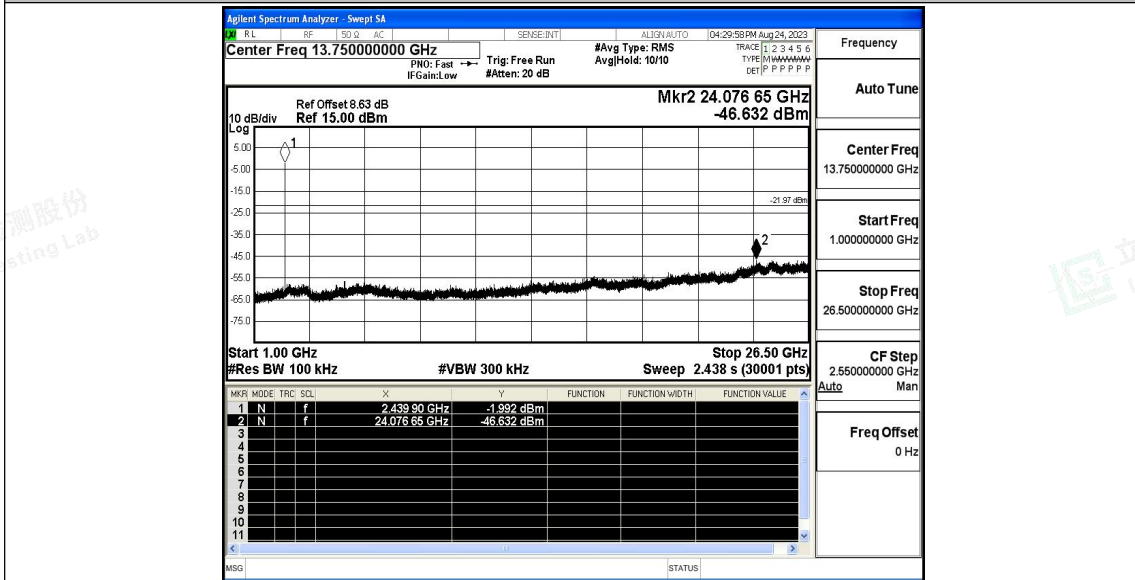
BLE\_1M\_Ant1\_2440\_30~1000







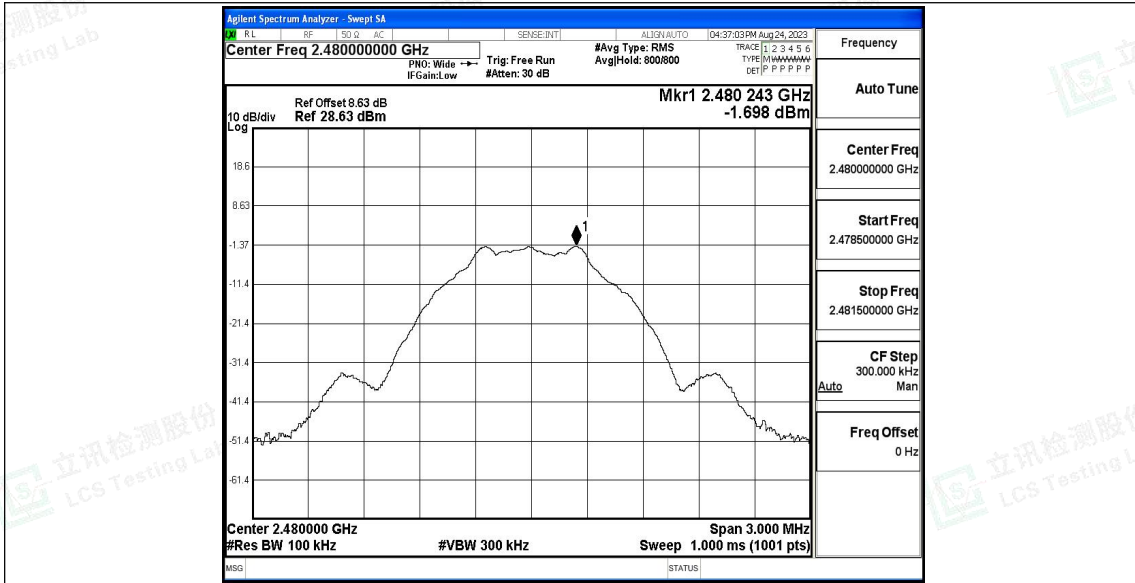
BLE\_1M\_Ant1\_2440\_1000~26500



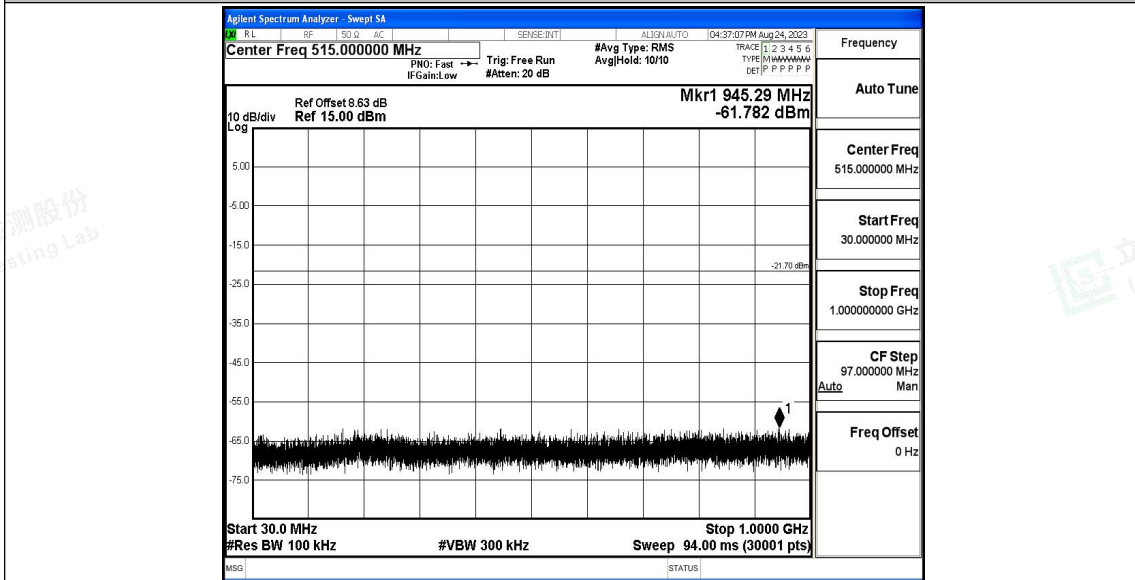
BLE\_1M\_Ant1\_2480\_0~Reference





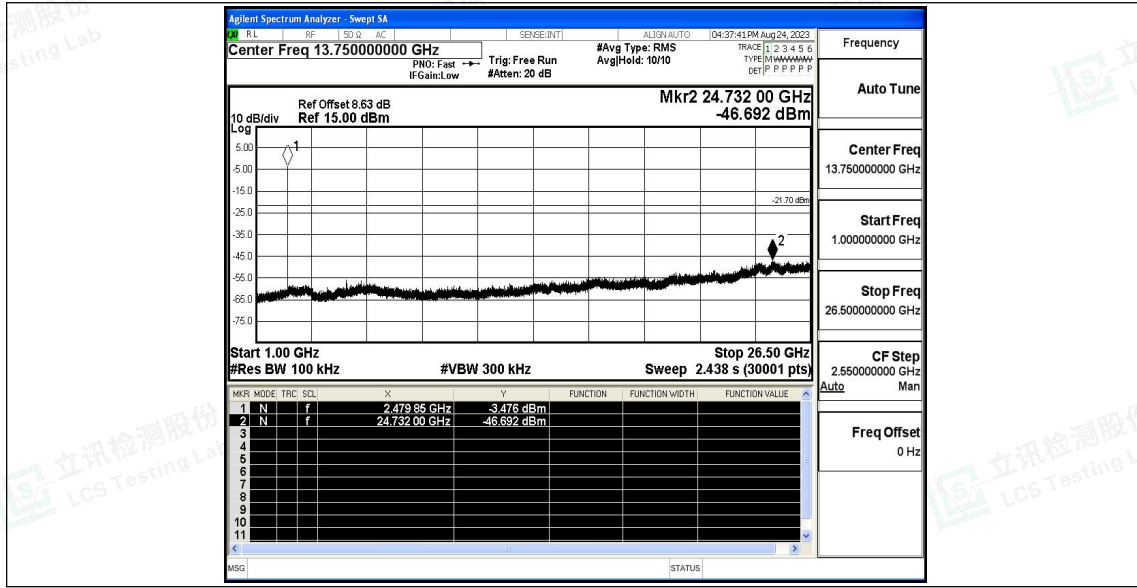


BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500







### A.6 Duty Cycle

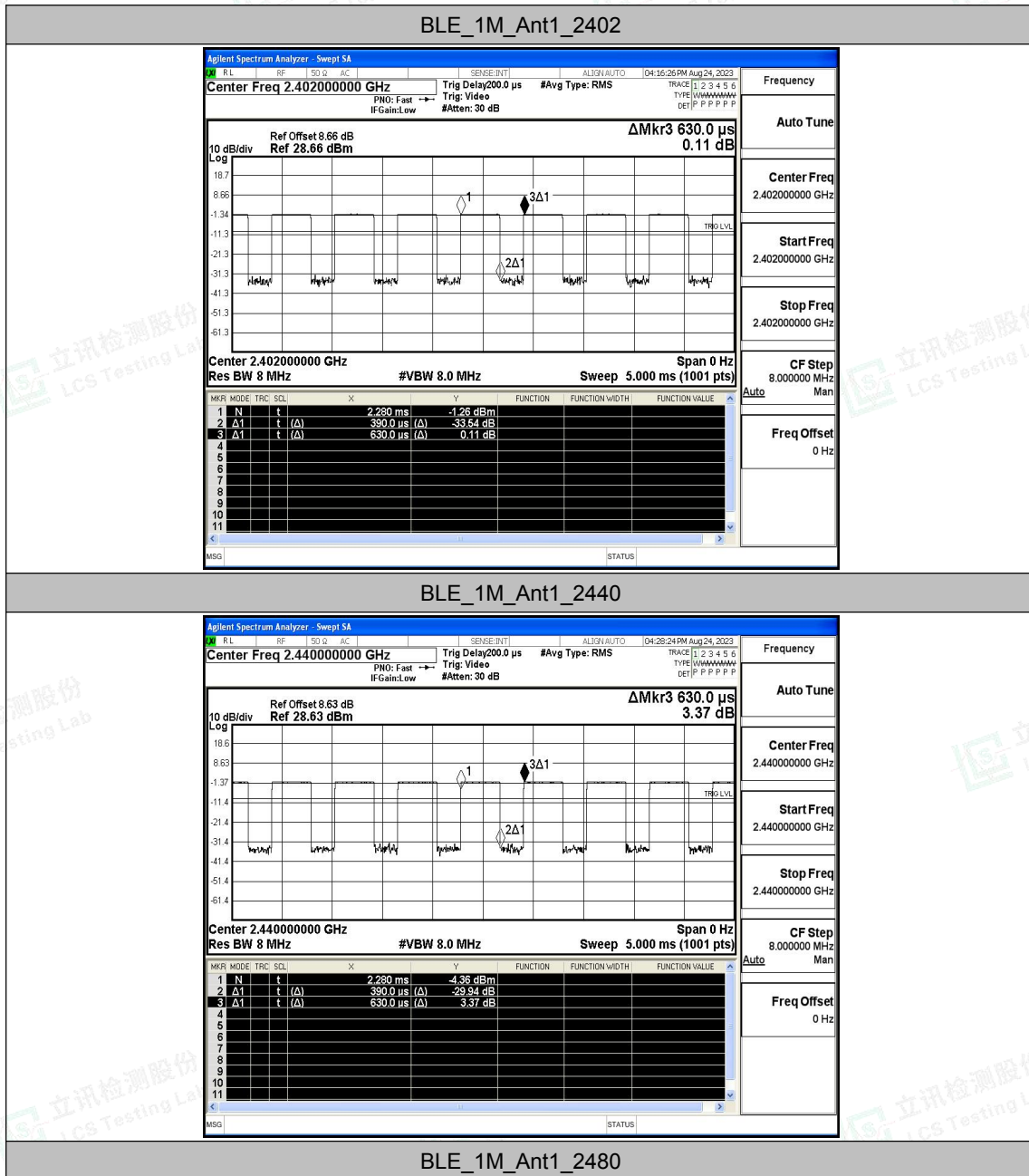
#### Test Result

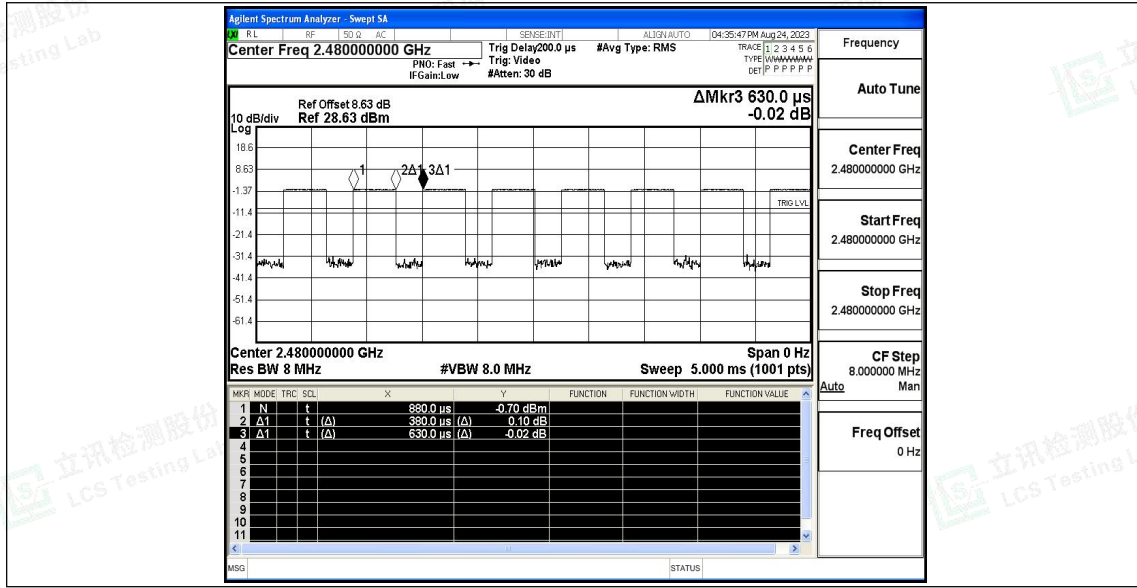
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS





### Test Graphs







### A.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	-57.48	≤-41.20	37.72	≤54	PASS
				AV	2386.310	-56.81	≤-41.20	38.39	≤54	PASS
				AV	2390.000	-57.25	≤-41.20	37.95	≤54	PASS
				Peak	2310.000	-50.3	≤-21.20	44.90	≤74	PASS
				Peak	2311.550	-48.11	≤-21.20	47.09	≤74	PASS
				Peak	2390.000	-50.66	≤-21.20	44.54	≤74	PASS
		High	2480	AV	2483.500	-54.02	≤-41.20	41.18	≤54	PASS
				AV	2483.520	-54.02	≤-41.20	41.18	≤54	PASS
				AV	2500.000	-56.72	≤-41.20	38.48	≤54	PASS
				Peak	2483.500	-51.01	≤-21.20	44.19	≤74	PASS
				Peak	2496.400	-47.97	≤-21.20	47.23	≤74	PASS
				Peak	2500.000	-50.44	≤-21.20	44.76	≤74	PASS

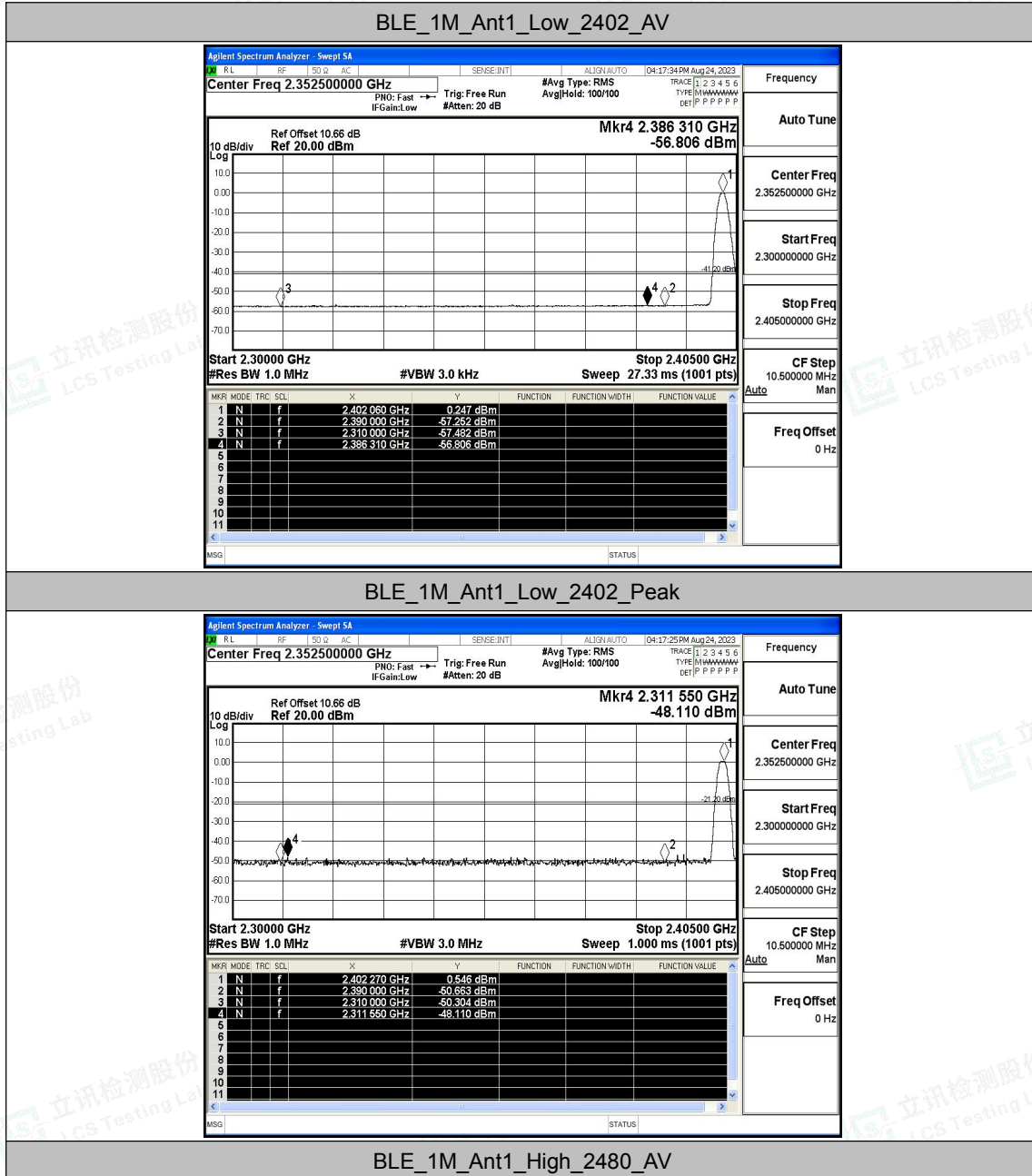
Note:

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.

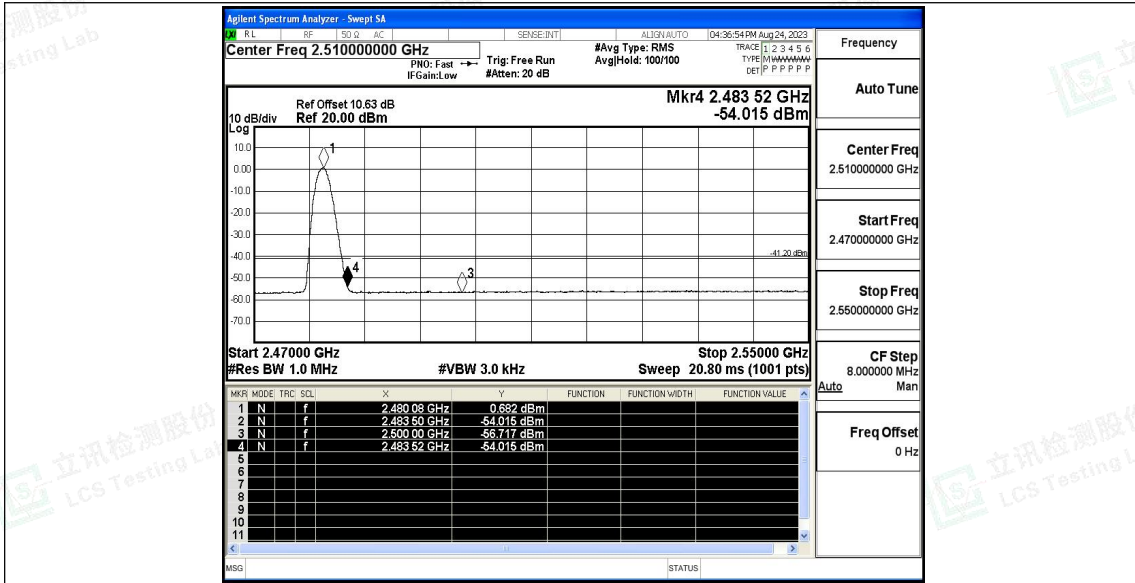




### Test Graphs







BLE\_1M\_Ant1\_High\_2480\_Peak

