



## Appendix B

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

**Product Name:** The tablet

**Test Model:** DS808

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





## B.1 6dB Bandwidth

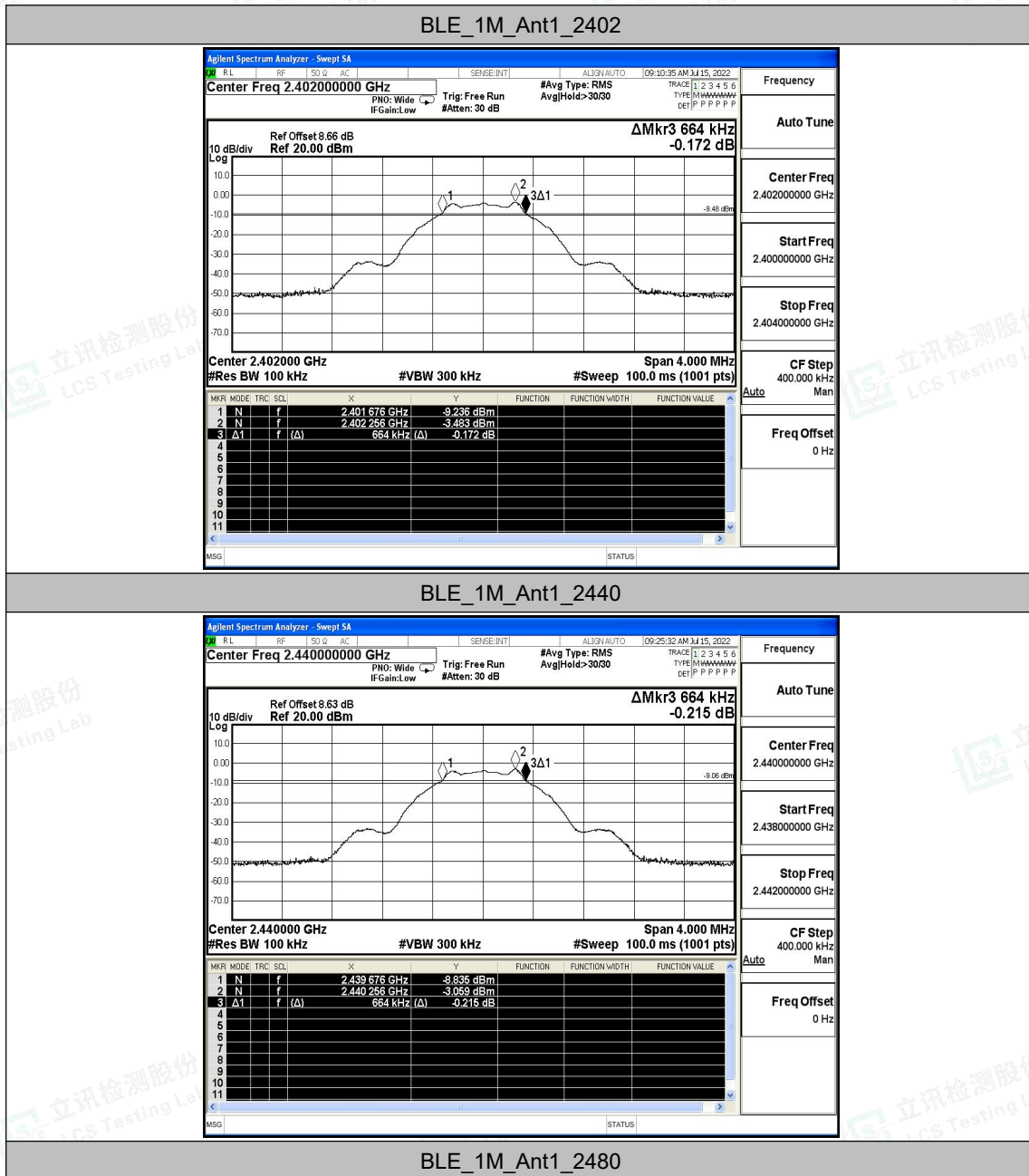
### Test Result

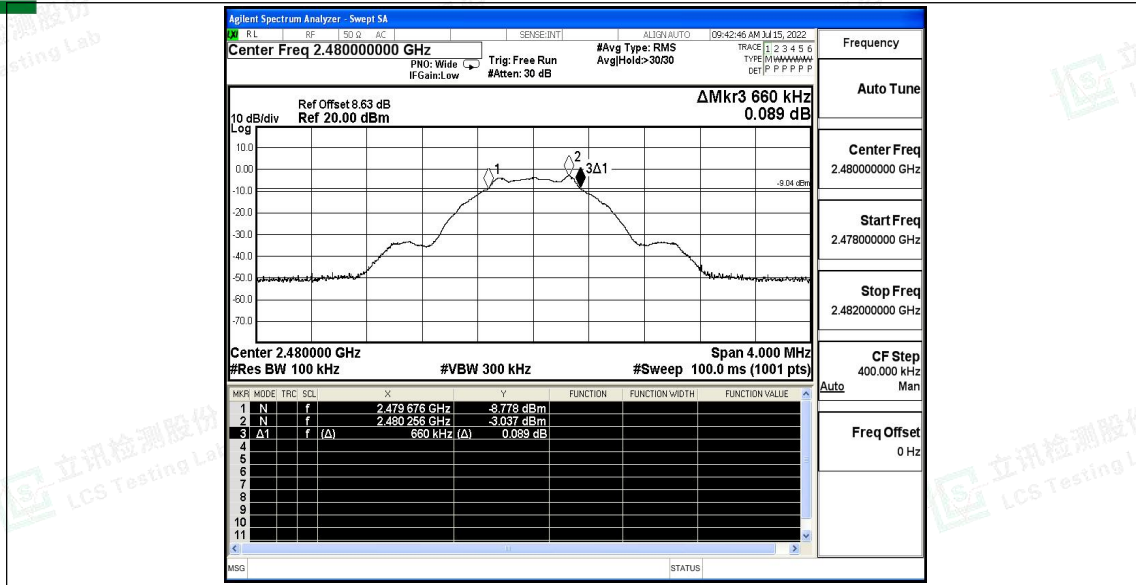
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.676	2402.340	0.5	PASS
		2440	0.664	2439.676	2440.340	0.5	PASS
		2480	0.660	2479.676	2480.336	0.5	PASS





### Test Graphs







## B.2 Maximum conducted output power

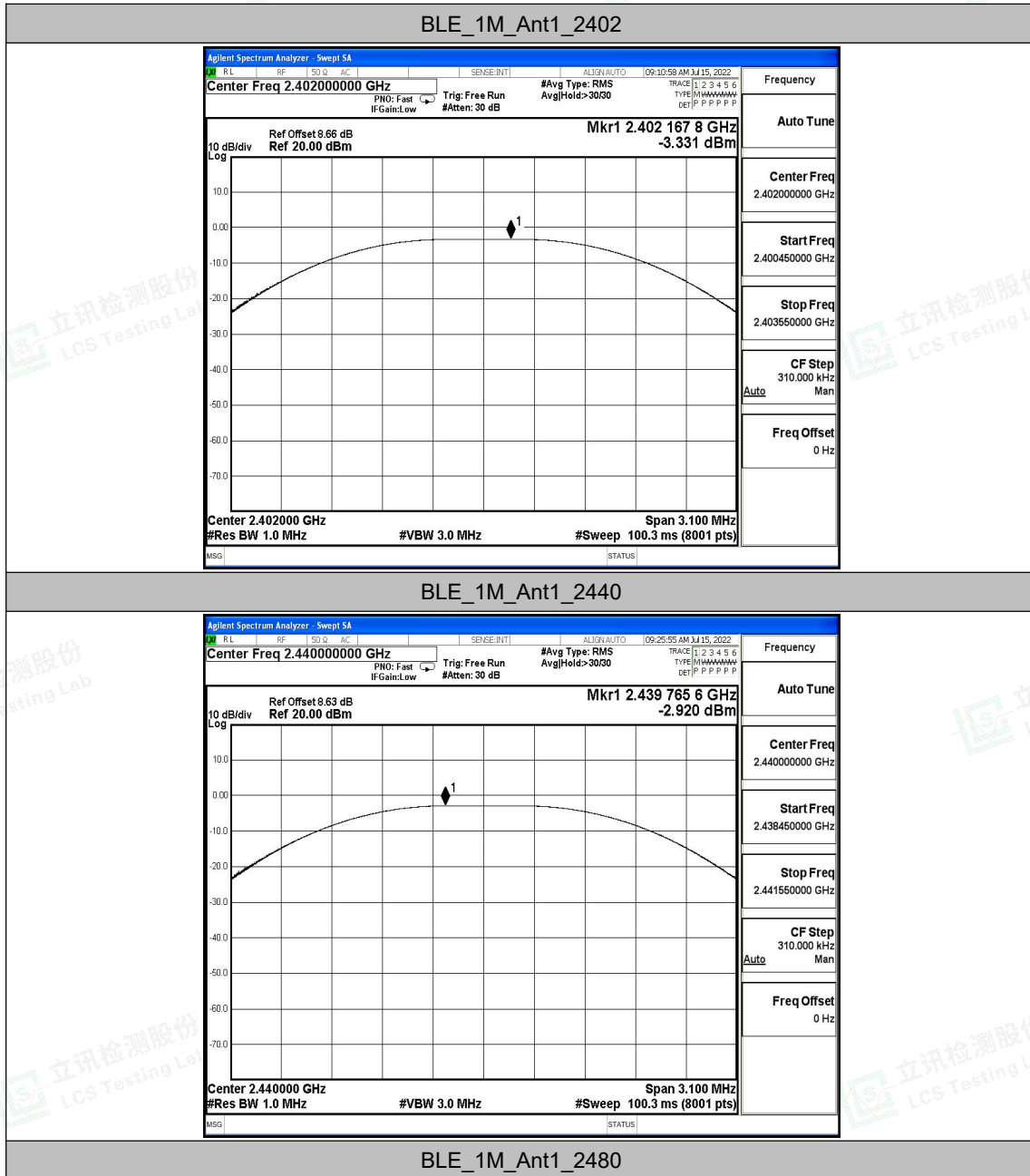
### Test Result

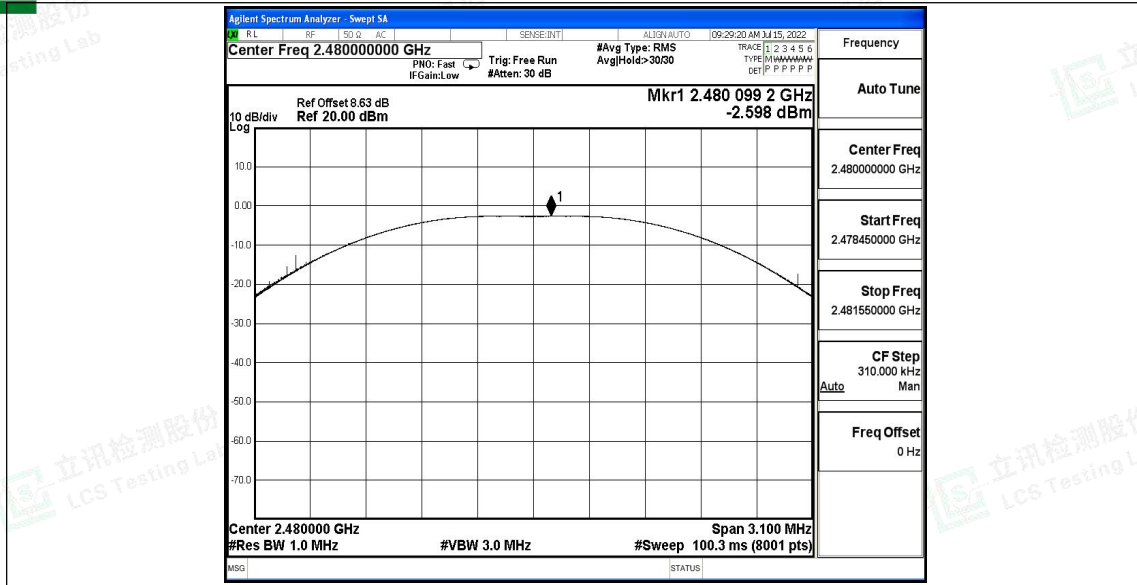
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.33	≤30	PASS
		2440	-2.92	≤30	PASS
		2480	-2.6	≤30	PASS





### Test Graphs







### B.3 Maximum power spectral density

#### Test Result

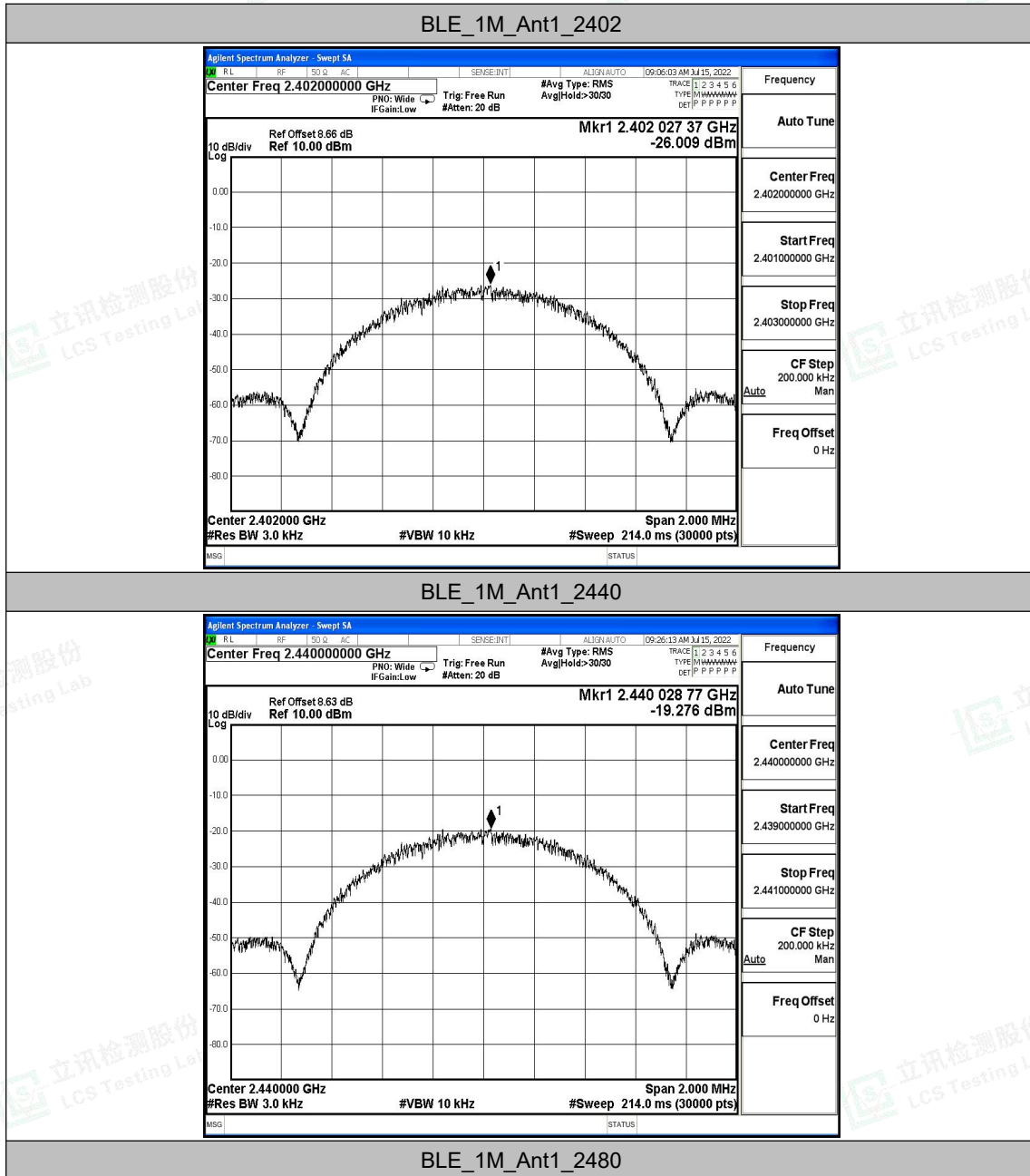
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-26.01	≤8.00	PASS
		2440	-19.28	≤8.00	PASS
		2480	-18.94	≤8.00	PASS

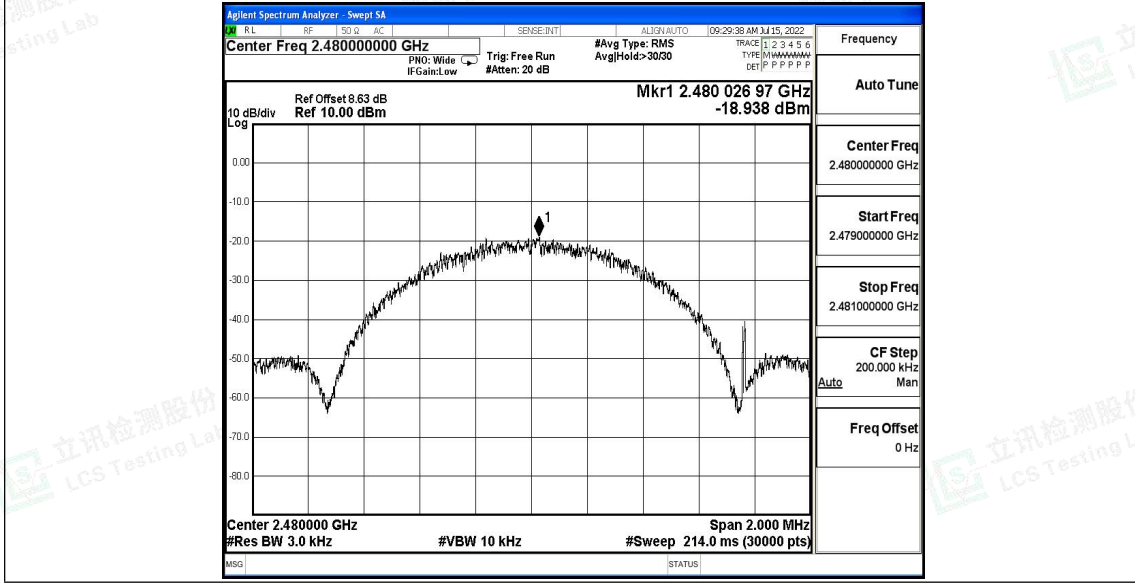






### Test Graphs







## B.4 Band edge measurements

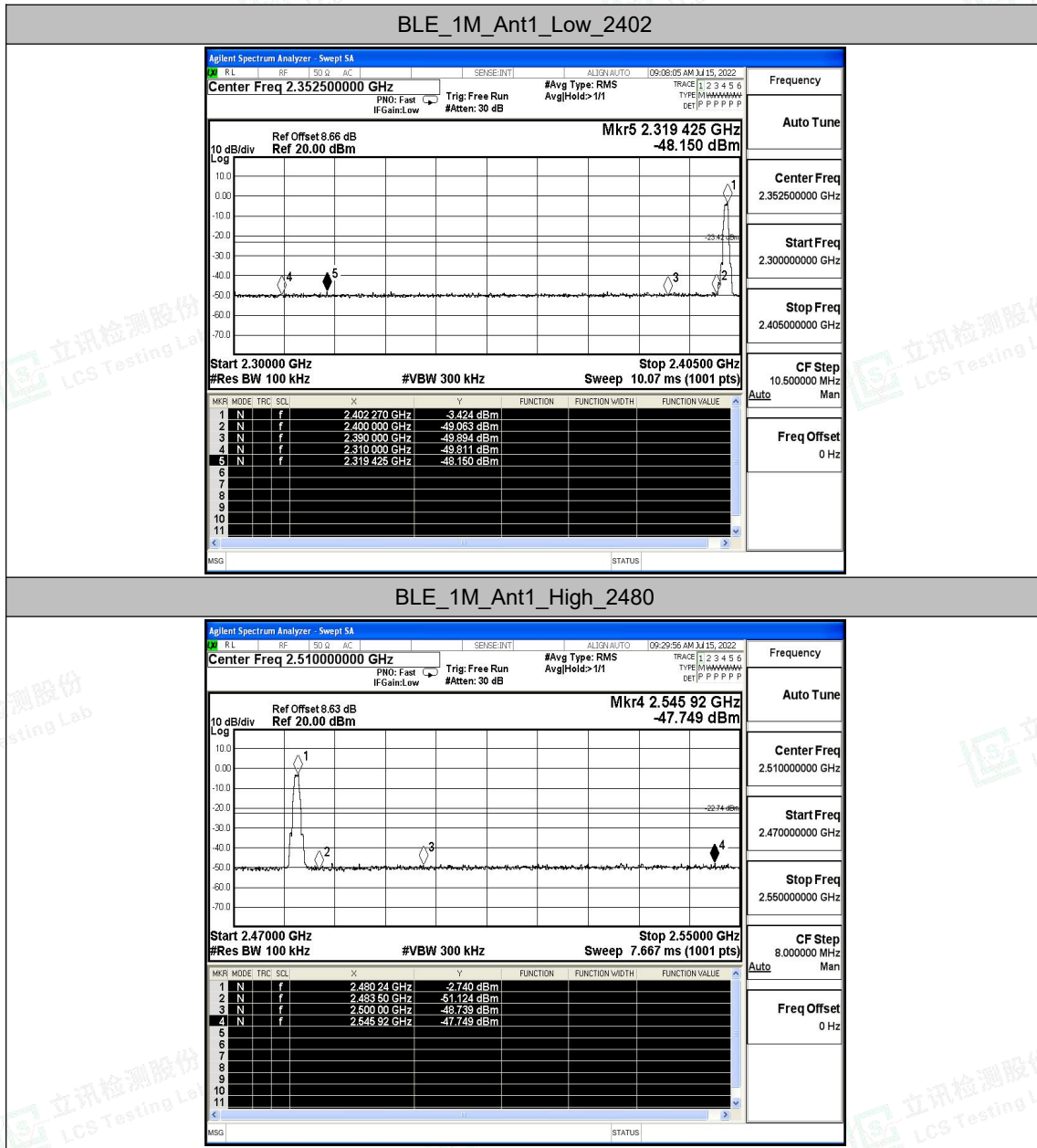
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.42	-48.15	≤-23.42	PASS
		High	2480	-2.74	-47.75	≤-22.74	PASS





### Test Graphs





## B.5 Conducted Spurious Emission

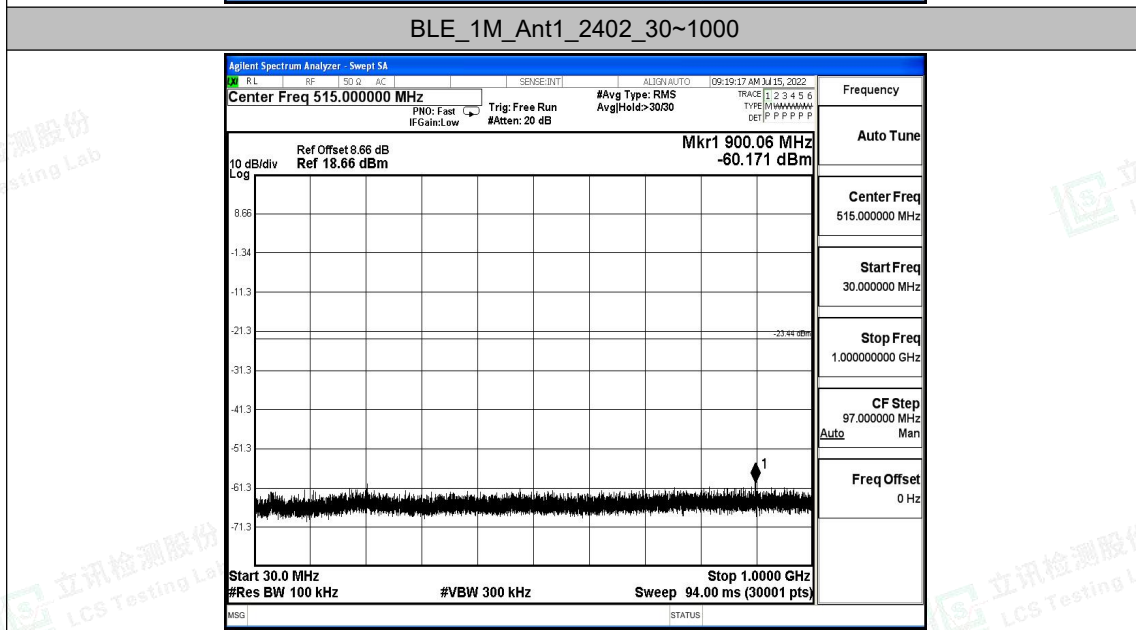
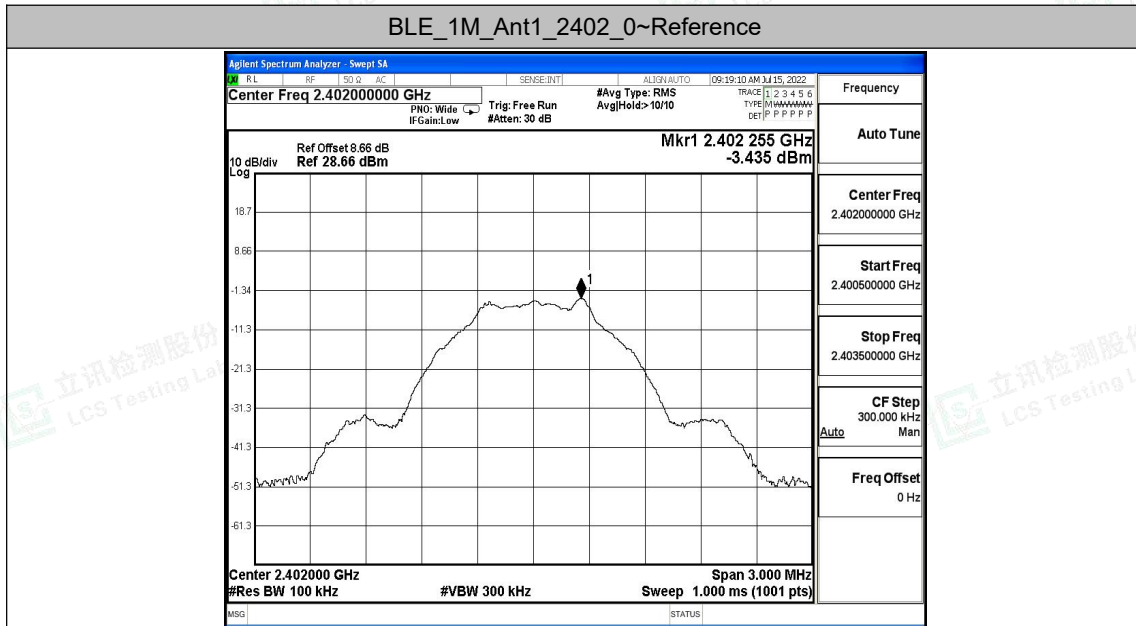
### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.44	-3.44	---	PASS
			30~1000	-3.44	-60.17	≤-23.44	PASS
			1000~26500	-3.44	-45.85	≤-23.44	PASS
		2440	Reference	-3.45	-3.45	---	PASS
			30~1000	-3.45	-60.7	≤-23.45	PASS
			1000~26500	-3.45	-45.48	≤-23.45	PASS
		2480	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-34.92	≤-22.74	PASS
			1000~26500	-2.74	-46.37	≤-22.74	PASS



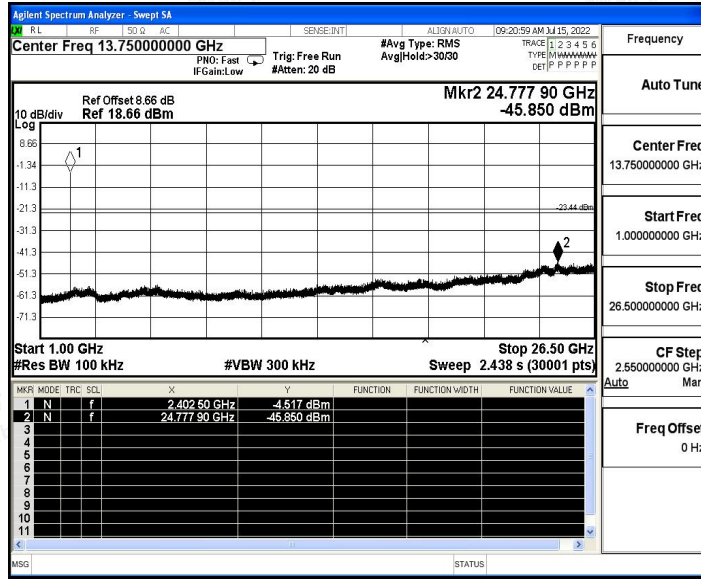


### Test Graphs

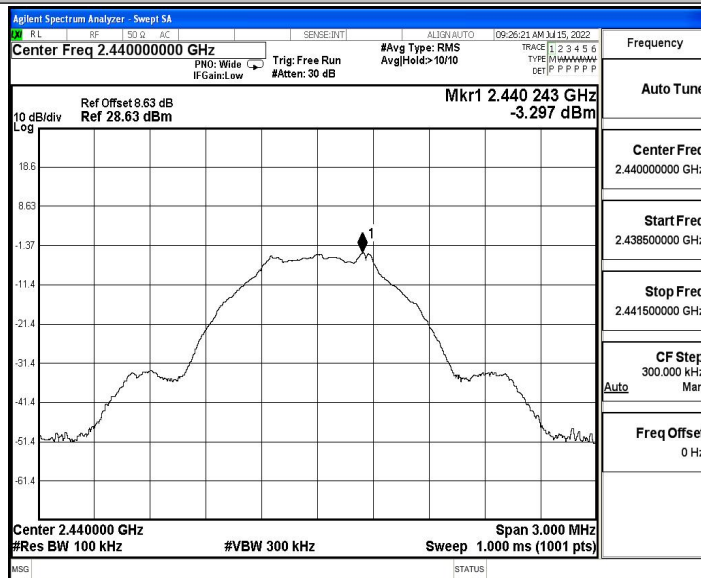


BLE\_1M\_Ant1\_2402\_1000~26500



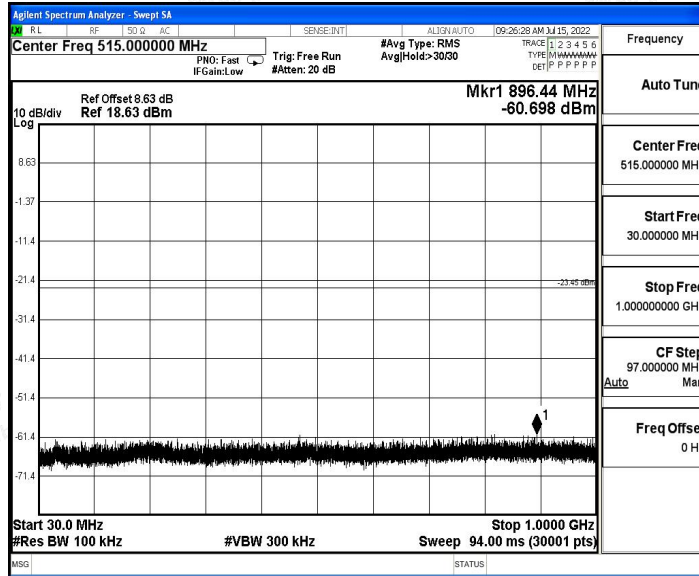


BLE\_1M\_Ant1\_2440\_0~Reference

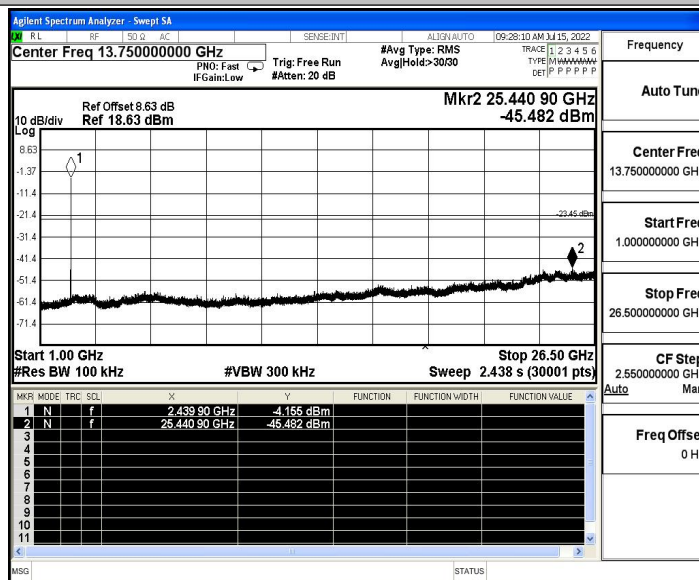


BLE\_1M\_Ant1\_2440\_30~1000





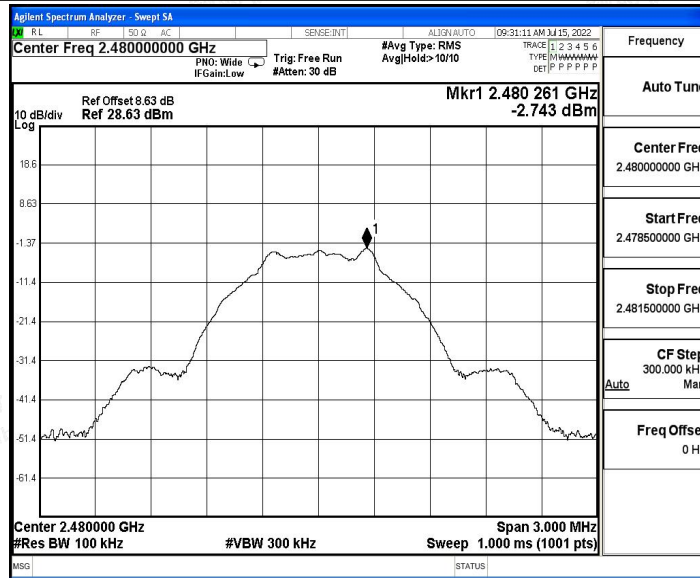
BLE\_1M\_Ant1\_2440\_1000~26500



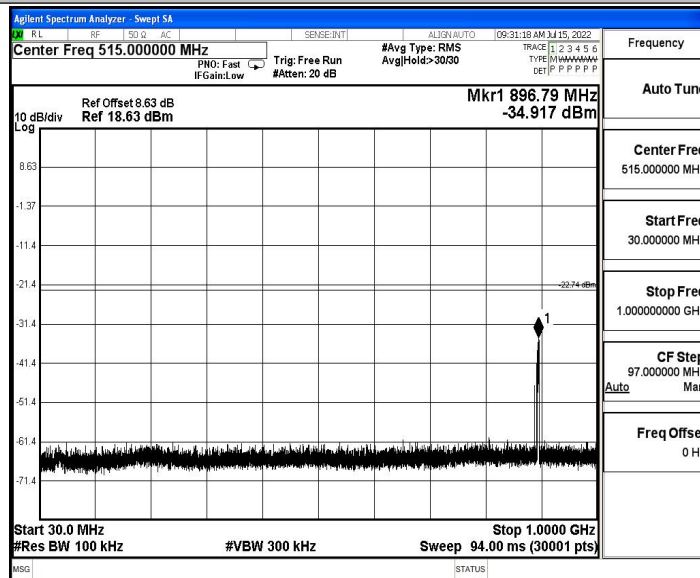
BLE\_1M\_Ant1\_2480\_0~Reference





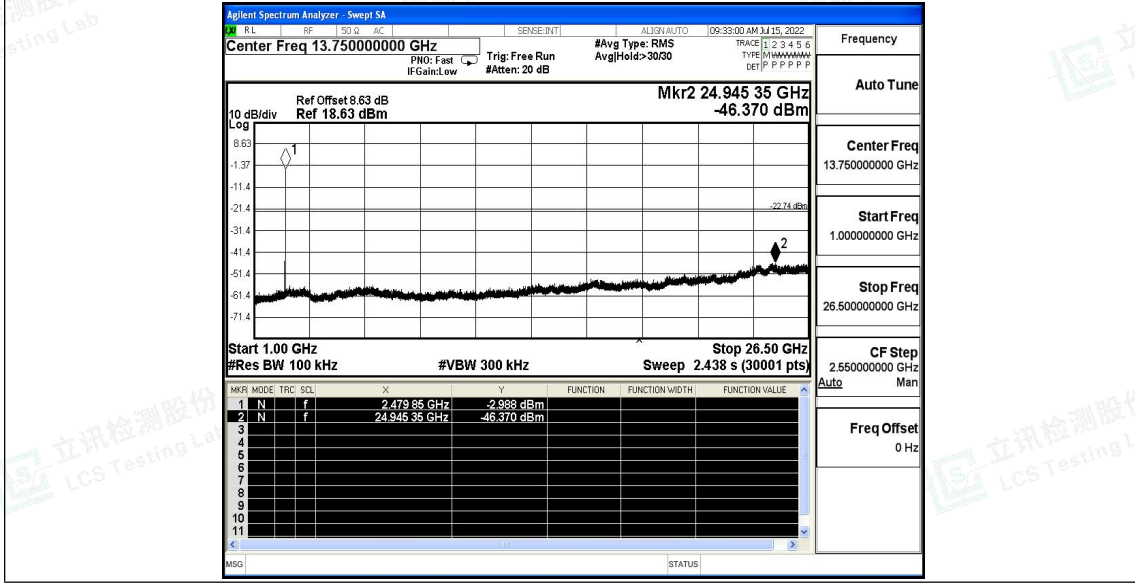


BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500







## B.6 Duty Cycle

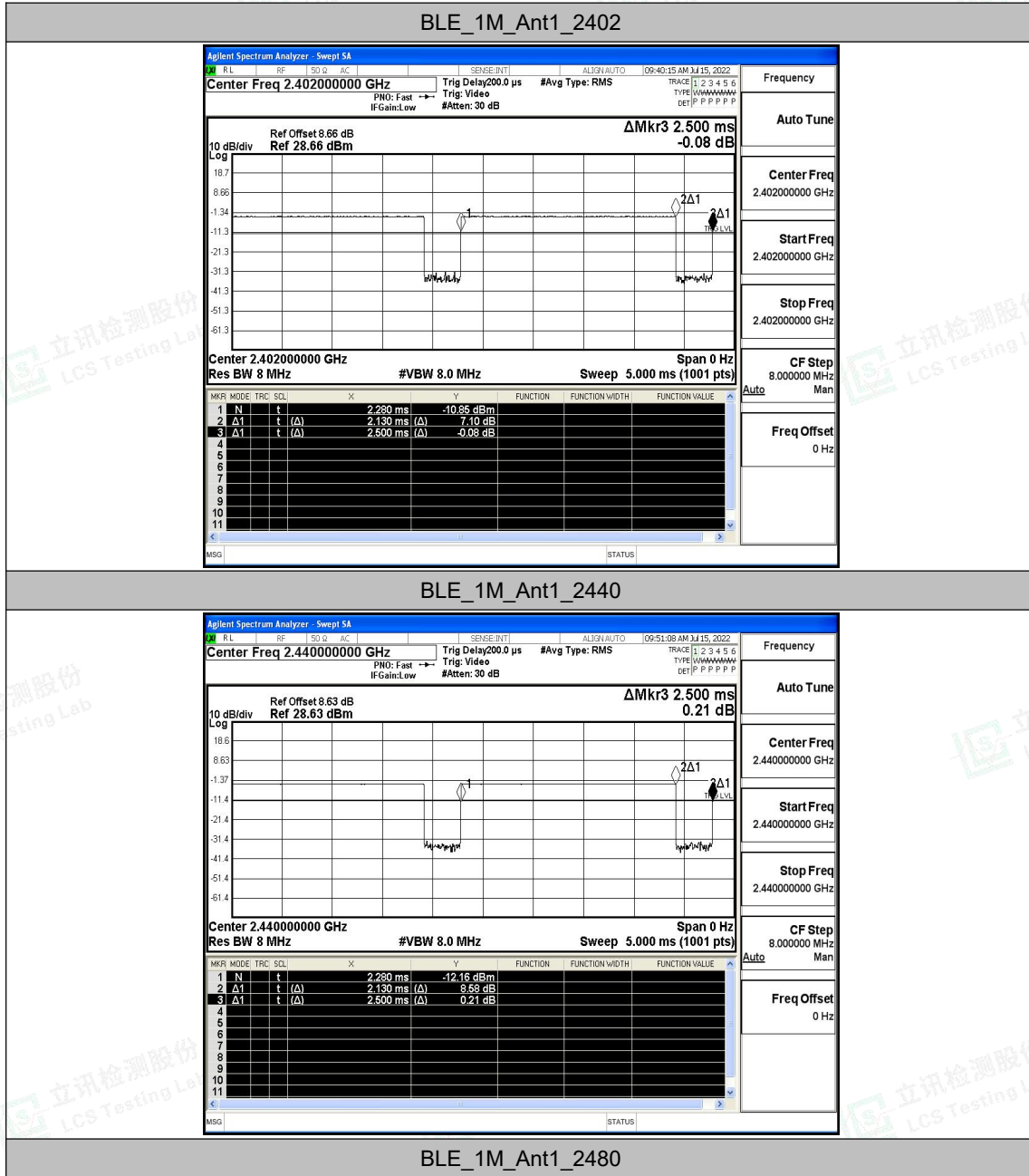
### Test Result

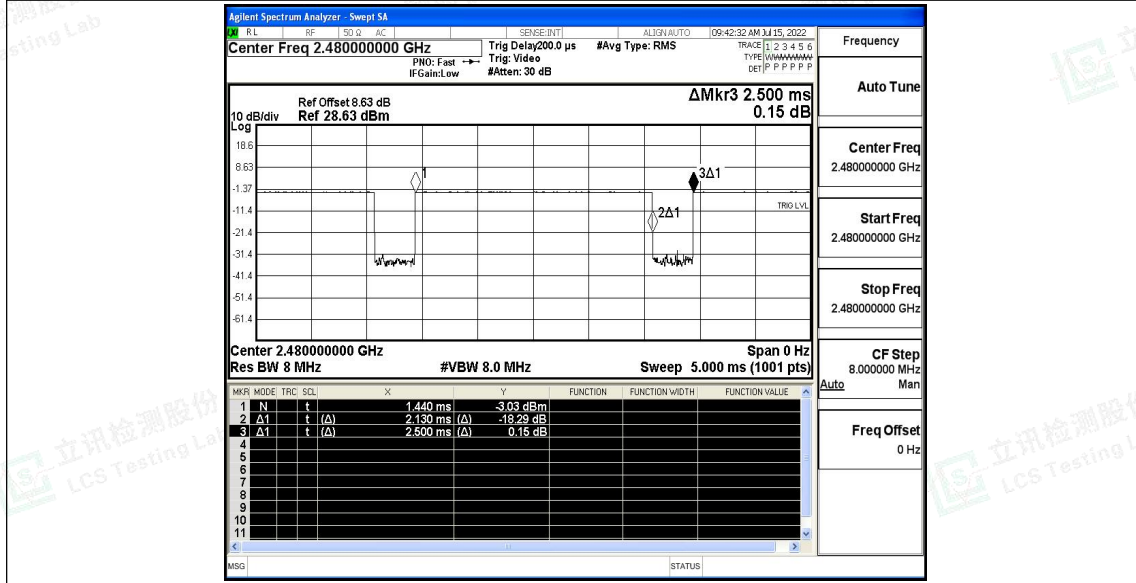
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	0.47	---	---
		2440	2.13	2.50	0.8520	85.20	0.70	0.47	---	---
		2480	2.13	2.50	0.8520	85.20	0.70	0.47	---	---





Test Graphs







## 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	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2385.680	-47.53	≤-41.20	47.67	≤54	PASS
				AV	2390.000	-47.72	≤-41.20	47.48	≤54	PASS
				Peak	2310.000	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2368.250	-36.84	≤-21.20	58.36	≤74	PASS
				Peak	2390.000	-38.9	≤-21.20	56.30	≤74	PASS
		High	2480	AV	2483.500	-47.11	≤-41.20	48.09	≤54	PASS
				AV	2496.960	-46.96	≤-41.20	48.24	≤54	PASS
				AV	2500.000	-47.04	≤-41.20	48.16	≤54	PASS
				Peak	2483.500	-37.59	≤-21.20	57.61	≤74	PASS
				Peak	2488.400	-36.18	≤-21.20	59.02	≤74	PASS
				Peak	2500.000	-38.27	≤-21.20	56.93	≤74	PASS

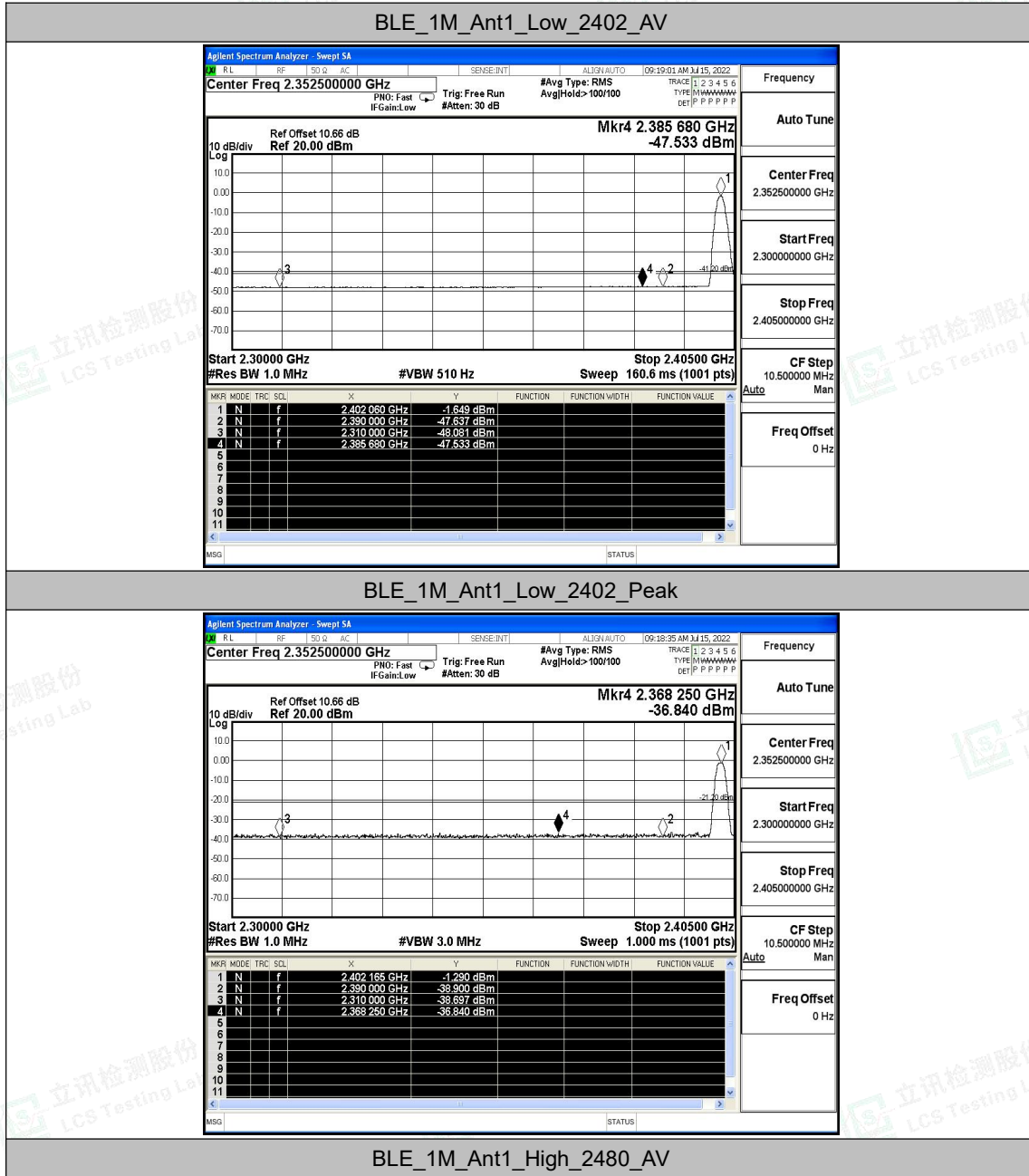
Note:

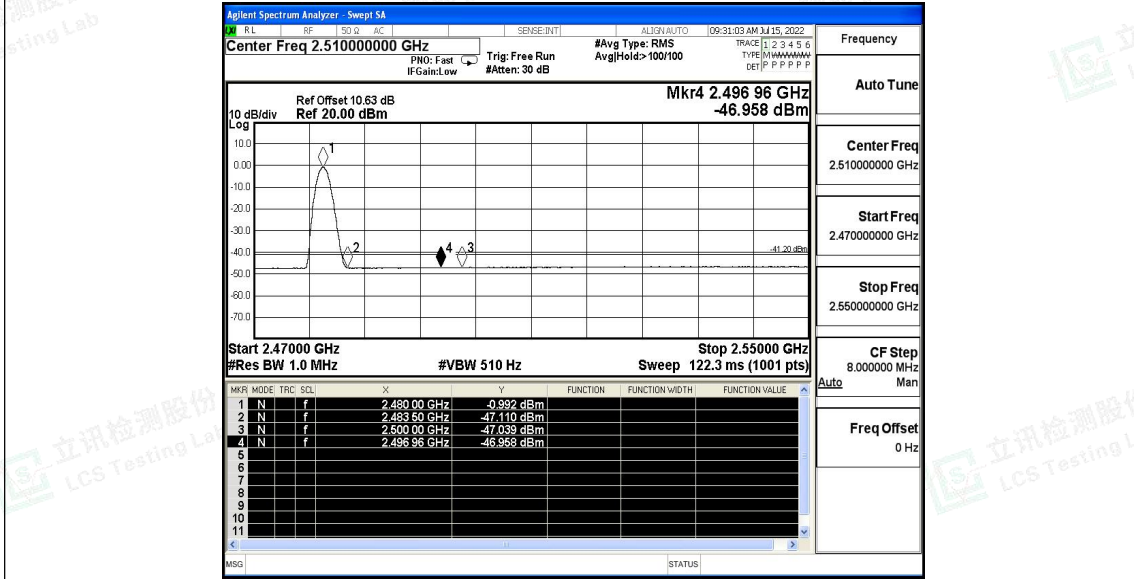
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





Test Graphs





BLE\_1M\_Ant1\_High\_2480\_Peak

