



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Handheld game console

Test Model: Q8

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





A.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	BT Ant	2402	0.672	2401.664	2402.336	0.5	PASS
		2440	0.668	2439.664	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS

Test Graphs

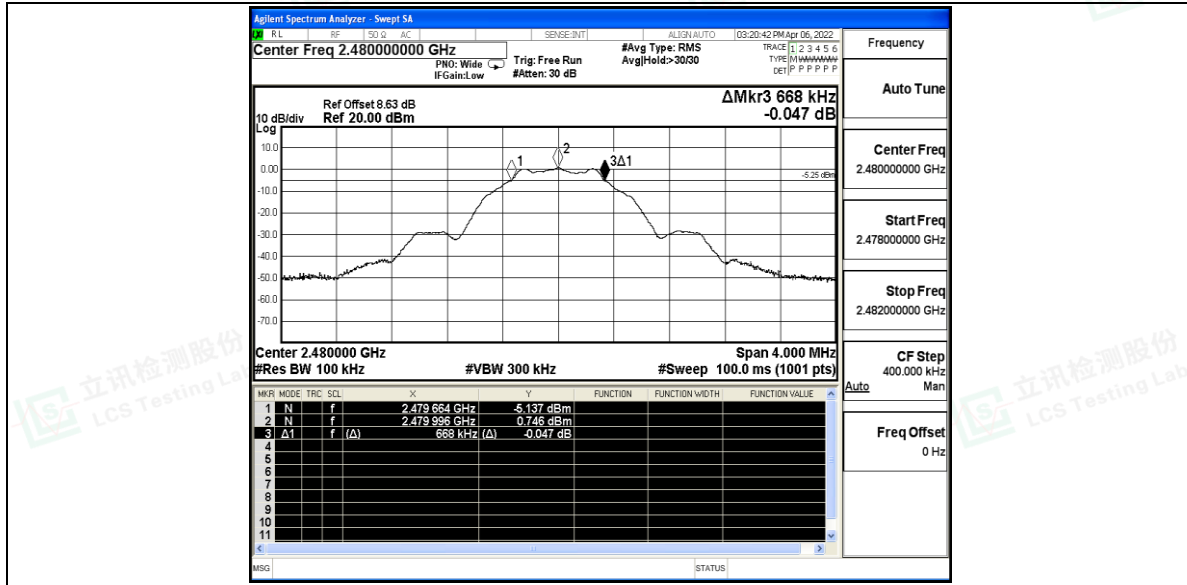


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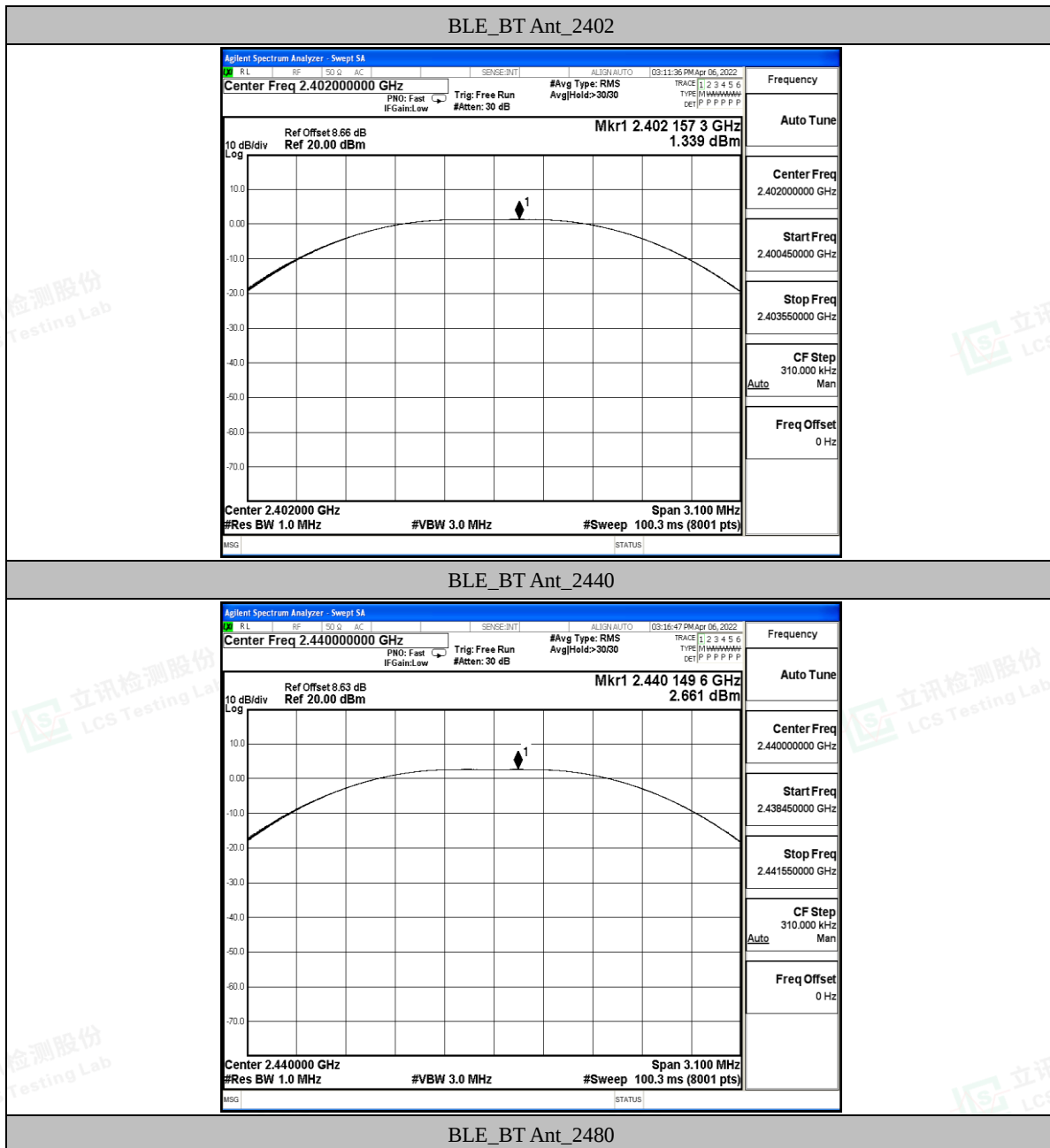


A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	2402	1.34	≤30	PASS
		2440	2.66	≤30	PASS
		2480	1.27	≤30	PASS

Test Graphs

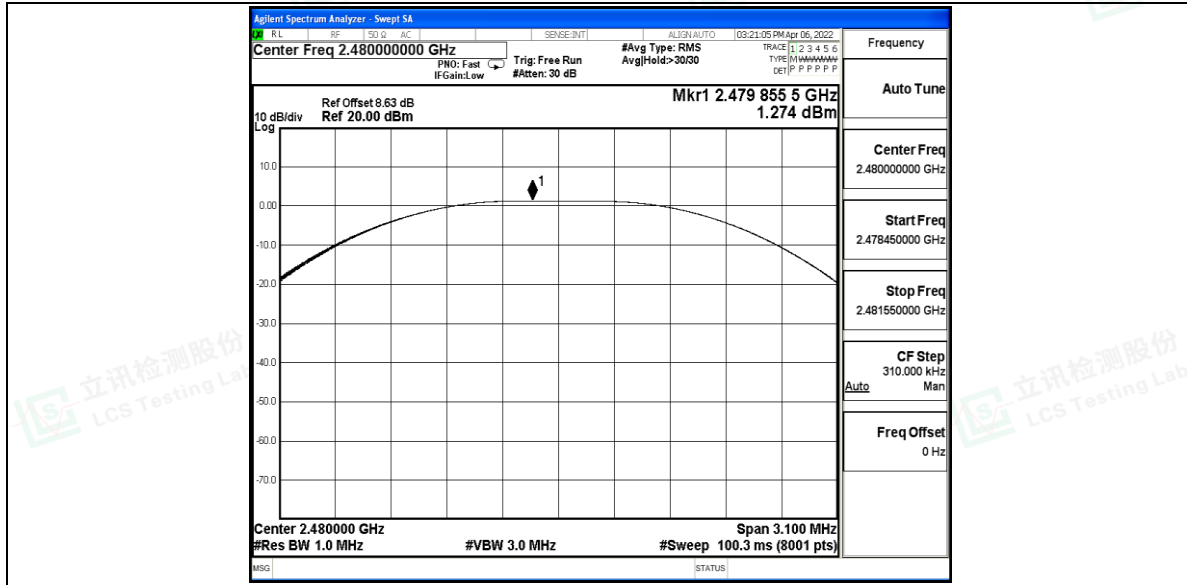


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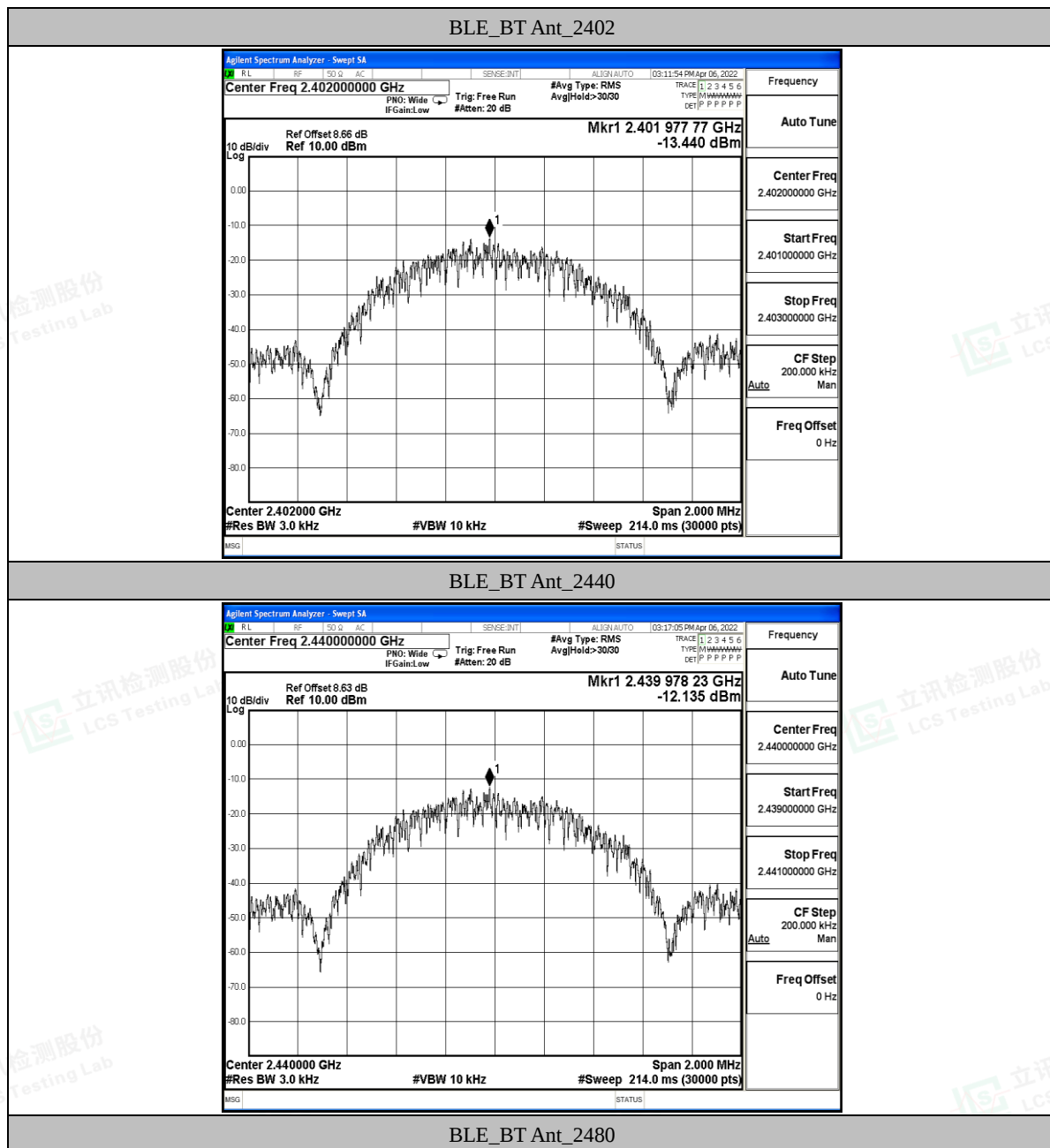


A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	BT Ant	2402	-13.44	≤8.00	PASS
		2440	-12.14	≤8.00	PASS
		2480	-13.67	≤8.00	PASS

Test Graphs

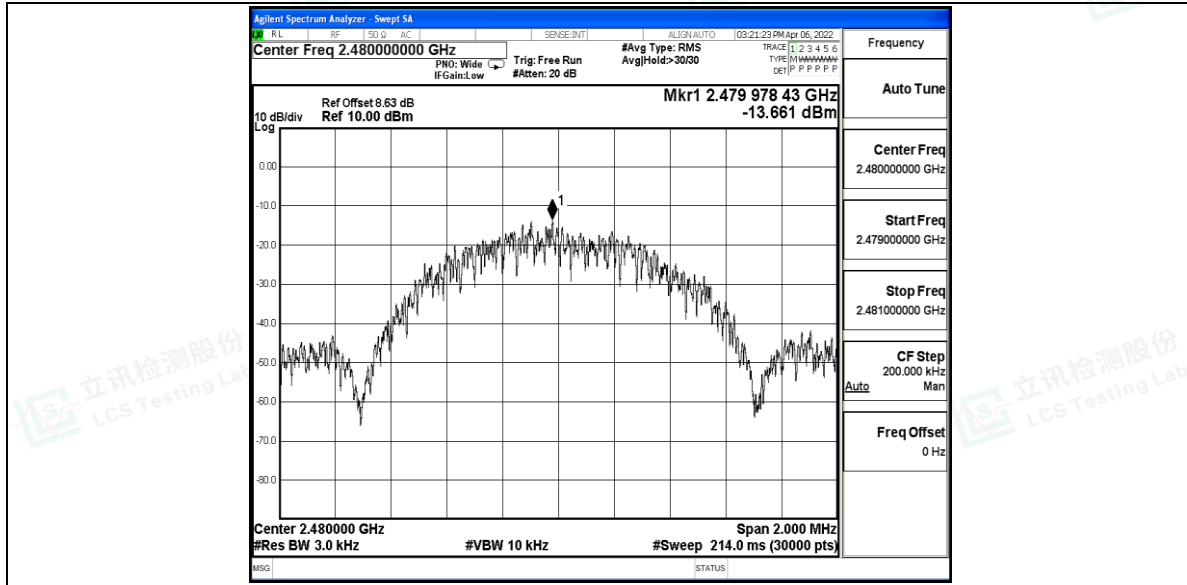


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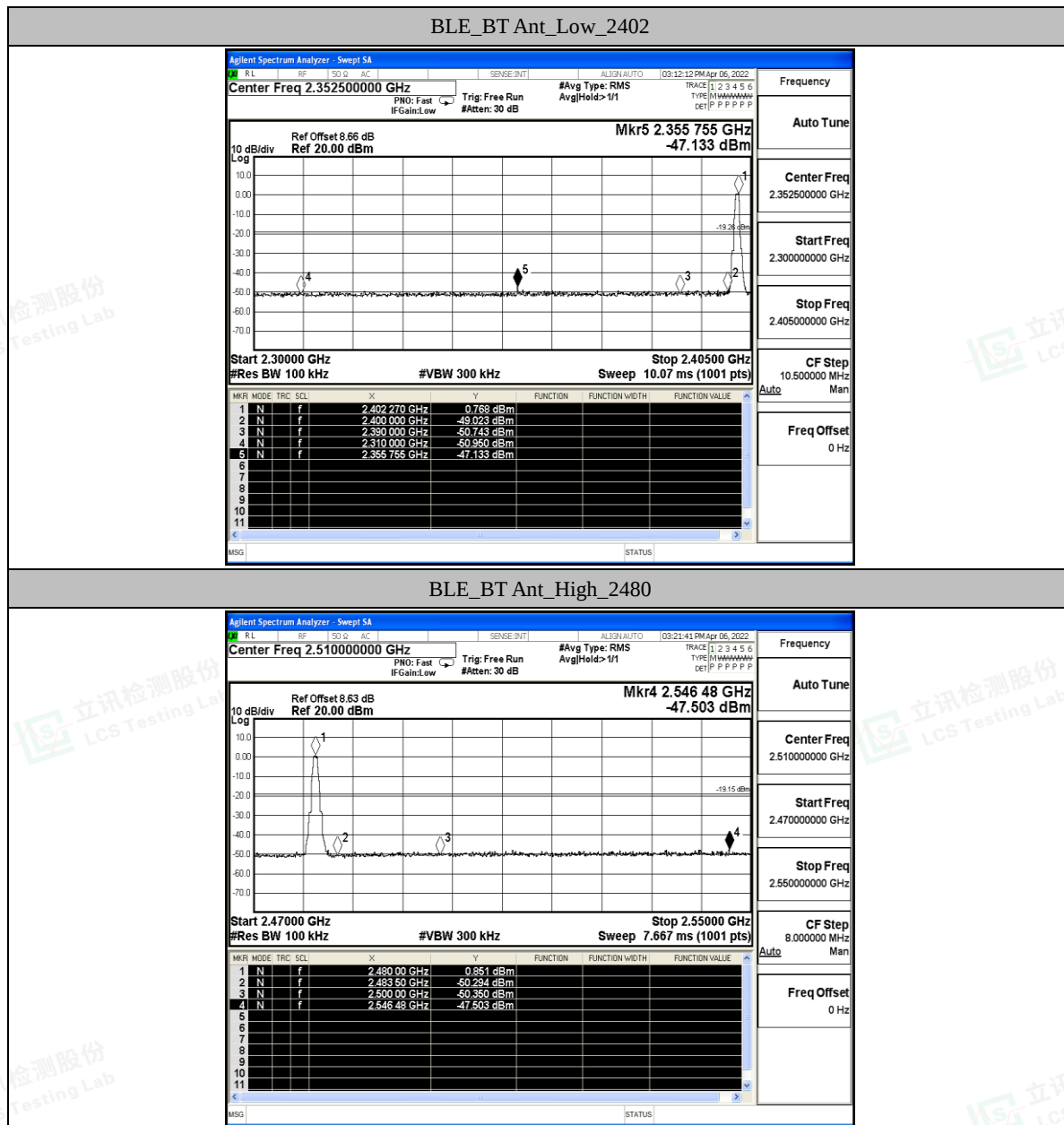


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	Low	2402	0.75	-47.13	≤-19.26	PASS
		High	2480	0.85	-47.50	≤-19.15	PASS

Test Graphs



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	2402	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-60.9	≤-19.12	PASS
			1000~26500	0.88	-45.5	≤-19.12	PASS
		2440	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-60.28	≤-17.84	PASS
			1000~26500	2.16	-45.55	≤-17.84	PASS
		2480	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-60.58	≤-19.22	PASS
			1000~26500	0.78	-45.57	≤-19.22	PASS



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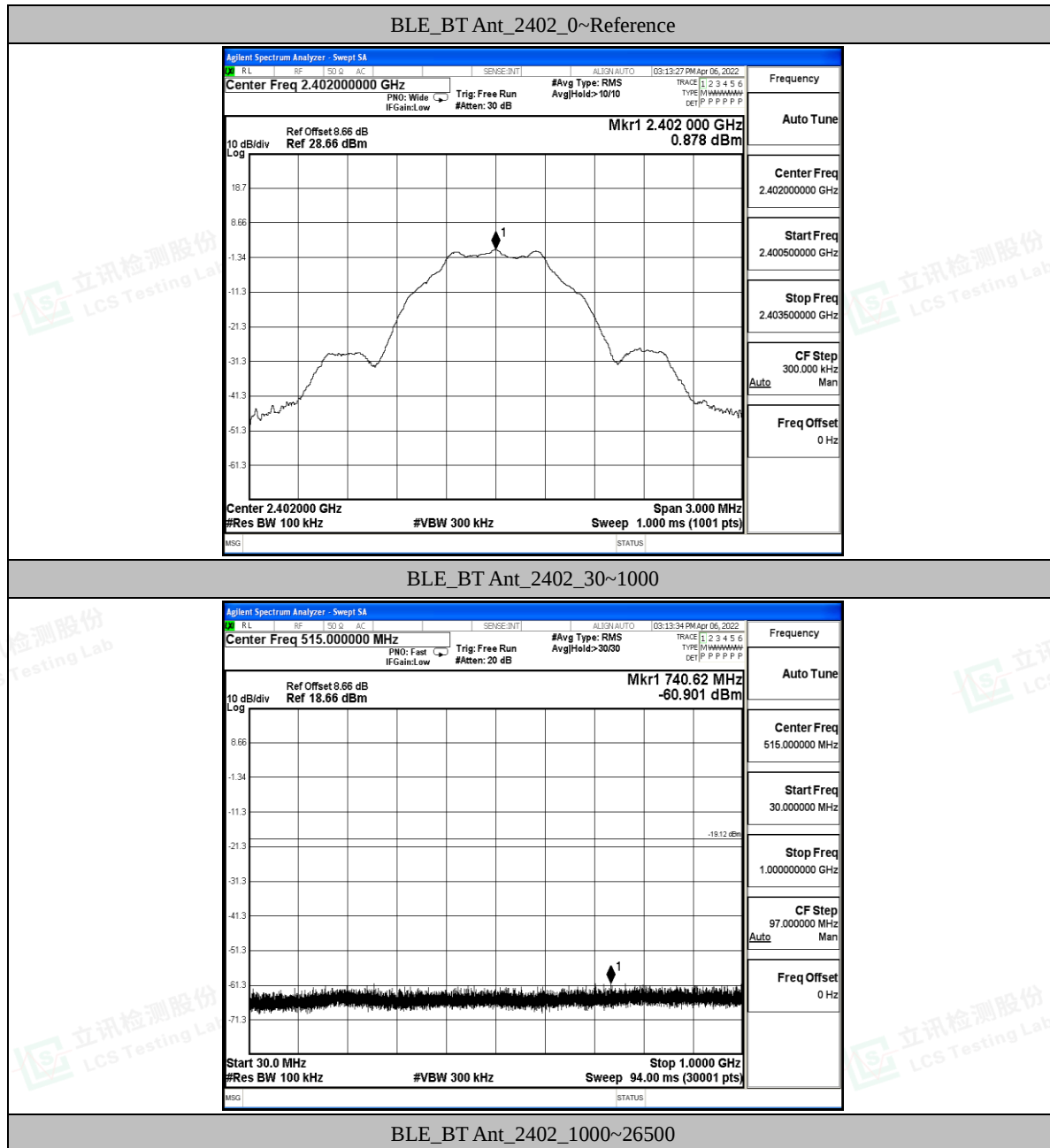
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Test Graphs

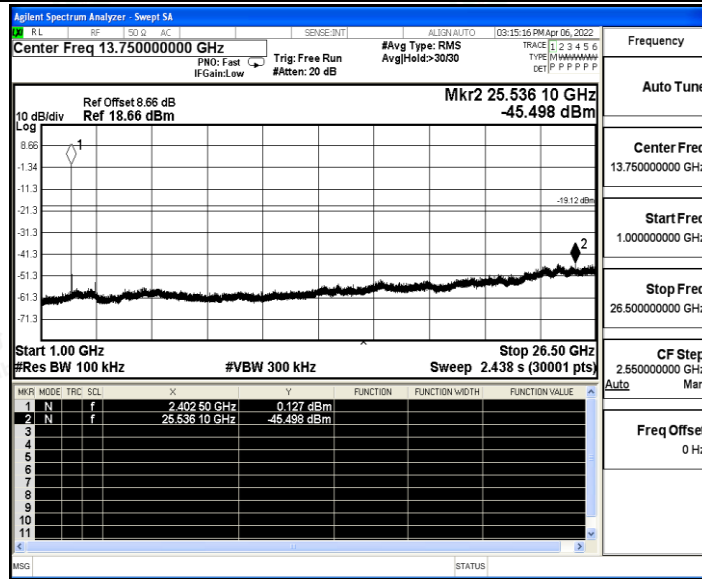


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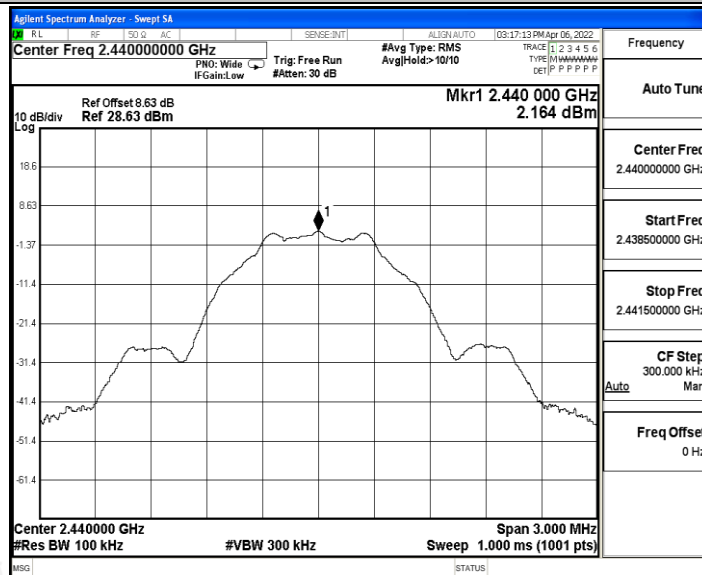
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BLE_BT Ant_2440_0~Reference



BLE_BT Ant_2440_30~1000

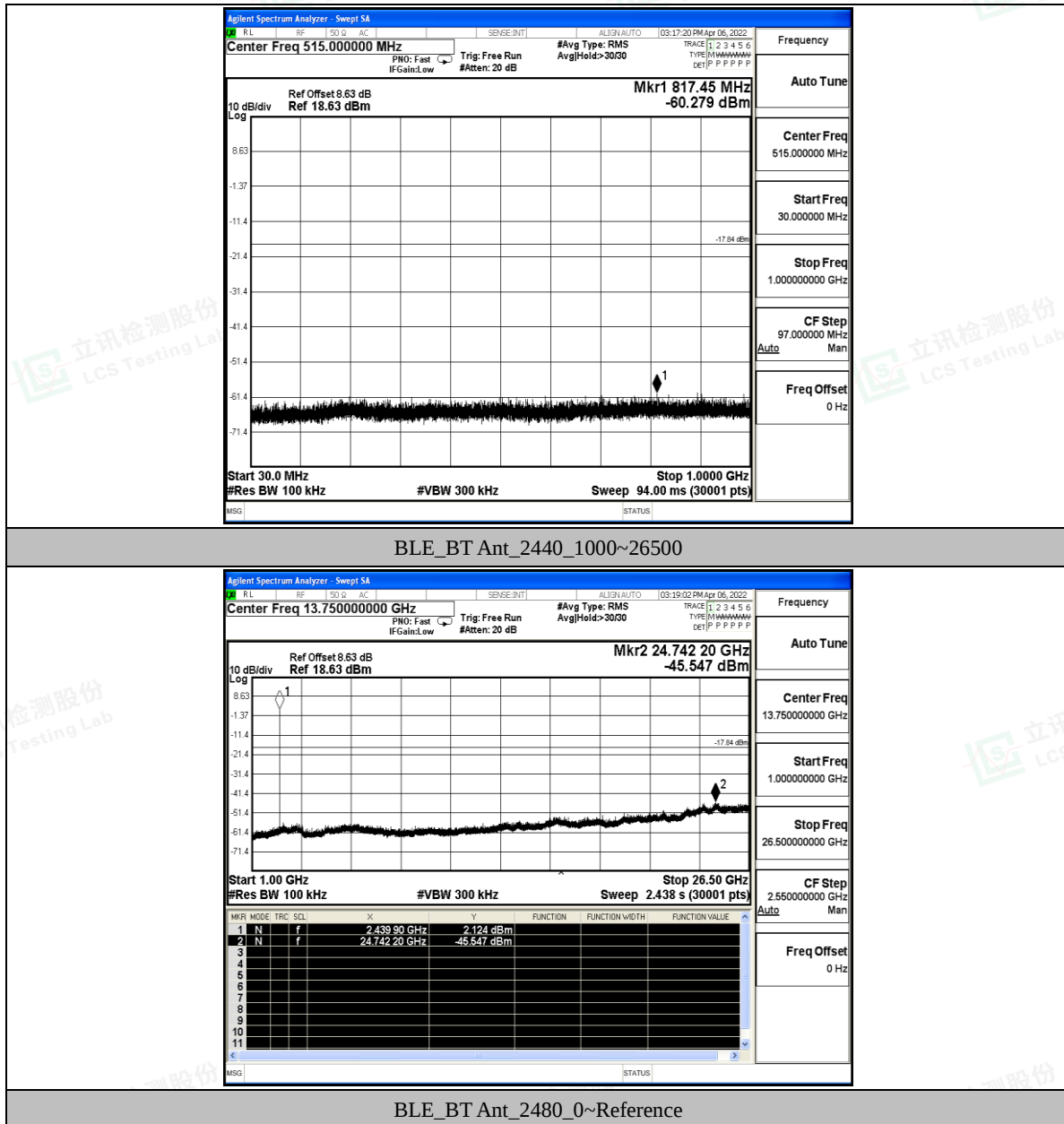


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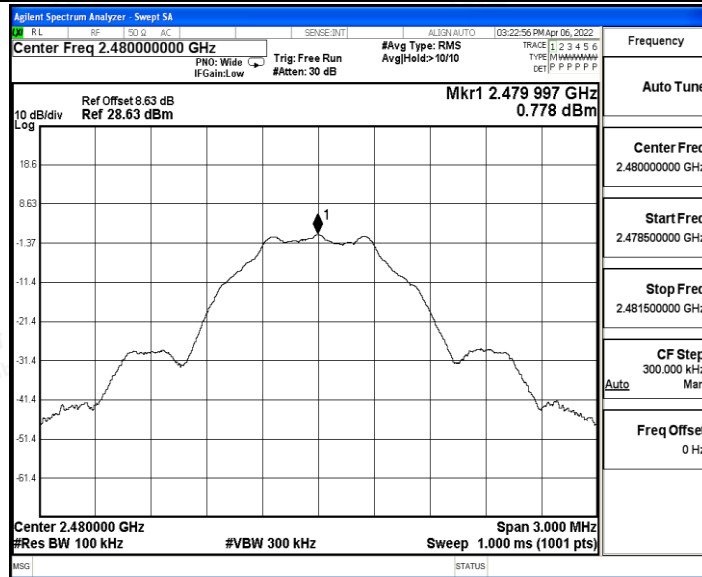


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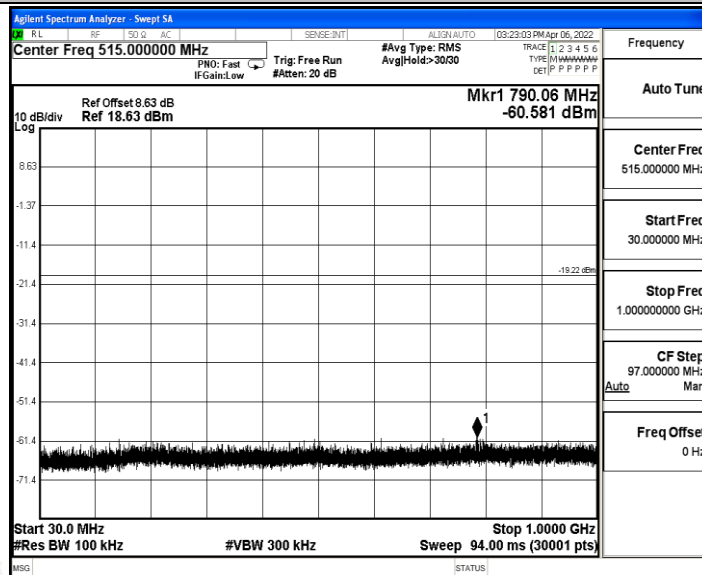
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BLE_BT Ant_2480_30~1000



BLE_BT Ant_2480_1000~26500

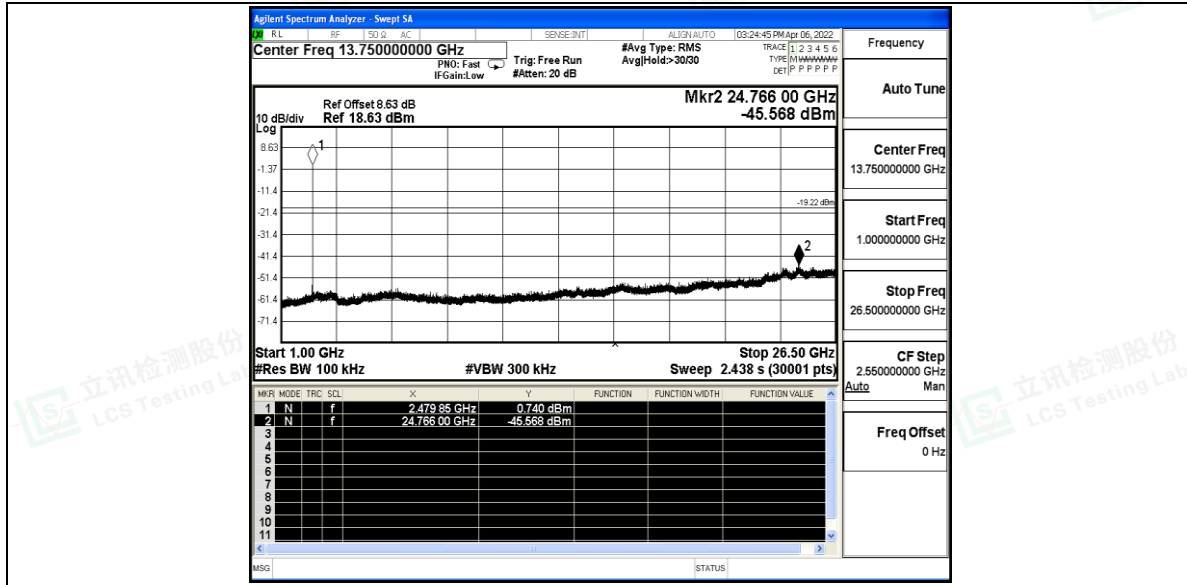


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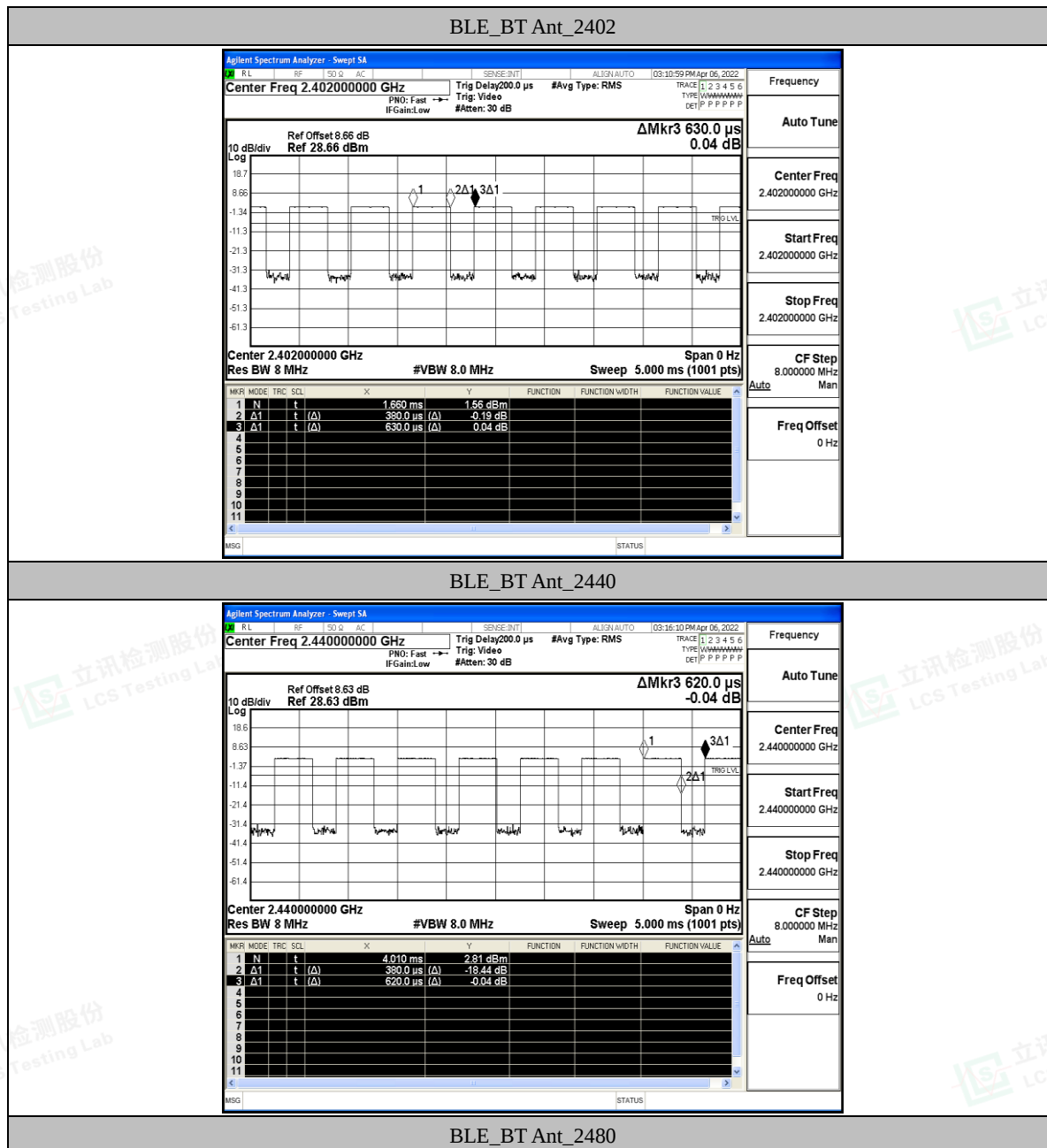


A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE	BT Ant	2402	0.38	0.63	0.6032	60.32	2.20	---	---
		2440	0.38	0.62	0.6129	61.29	2.13	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	---	---

Test Graphs

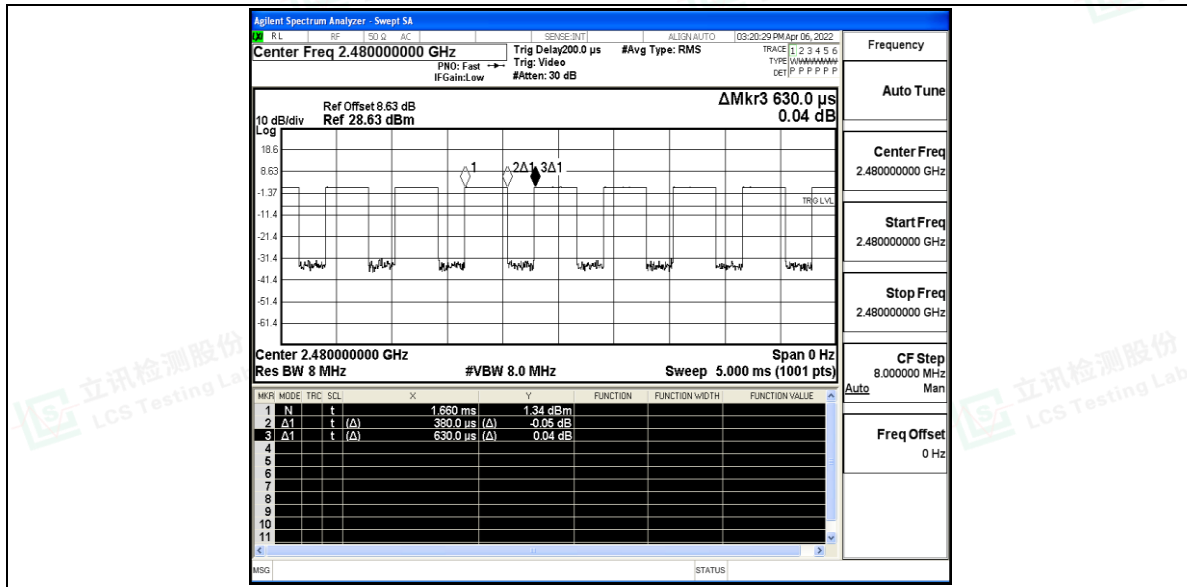


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A.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	BT Ant	Low	2402	AV	2310.000	-47.46	47.74	≤54	PASS
				AV	2330.870	-46.54	48.66	≤54	PASS
				AV	2390.000	-47.12	48.08	≤54	PASS
				Peak	2310.000	-38.49	56.71	≤74	PASS
				Peak	2373.500	-36.61	58.59	≤74	PASS
				Peak	2390.000	-38.23	56.97	≤74	PASS
		High	2480	AV	2483.500	-46.06	49.14	≤54	PASS
				AV	2490.480	-46	49.20	≤54	PASS
				AV	2500.000	-46.52	48.68	≤54	PASS
				Peak	2483.500	-37.06	58.14	≤74	PASS
				Peak	2487.040	-36.31	58.89	≤74	PASS
				Peak	2500.000	-37.75	57.45	≤74	PASS

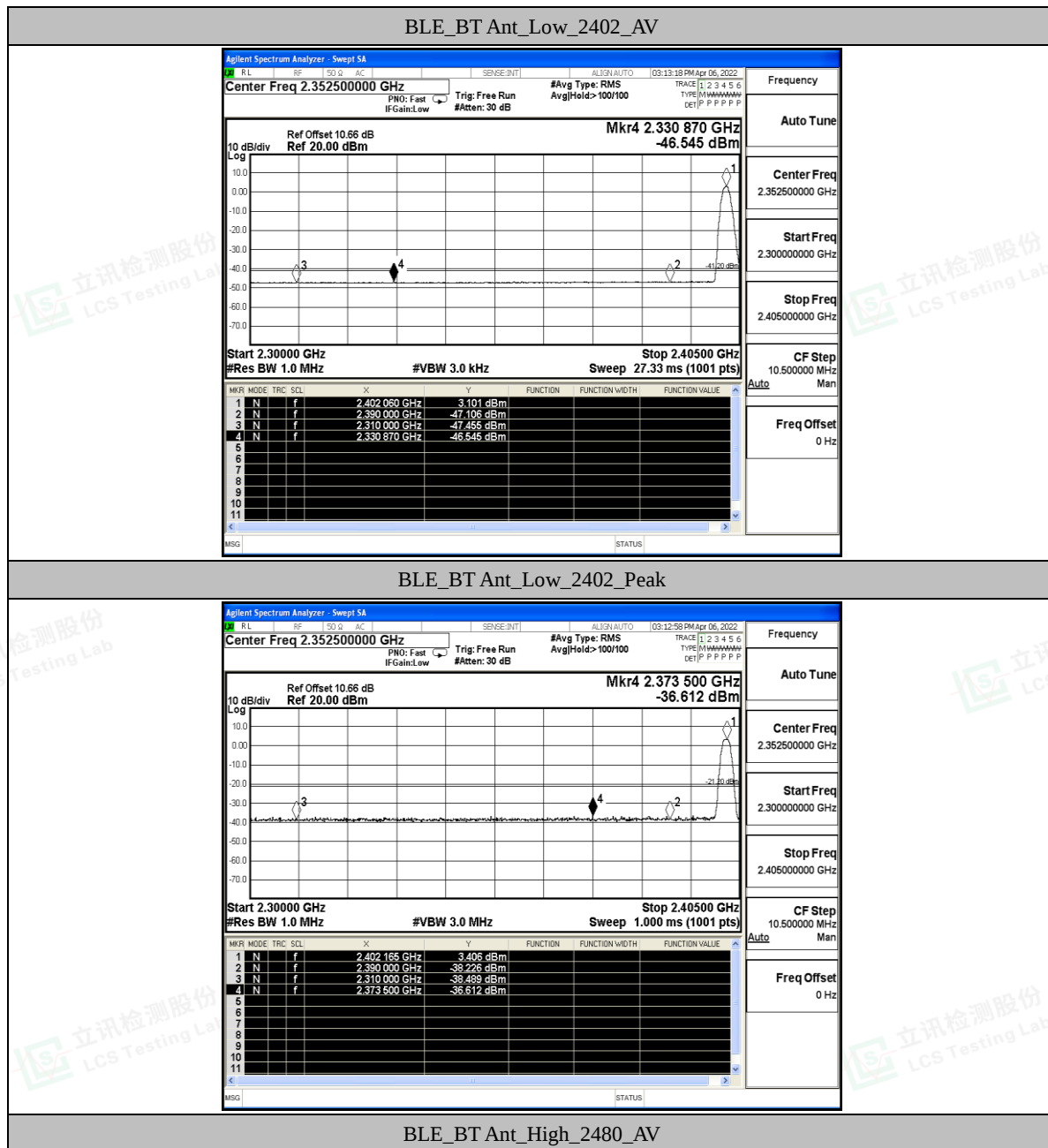
Note:

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

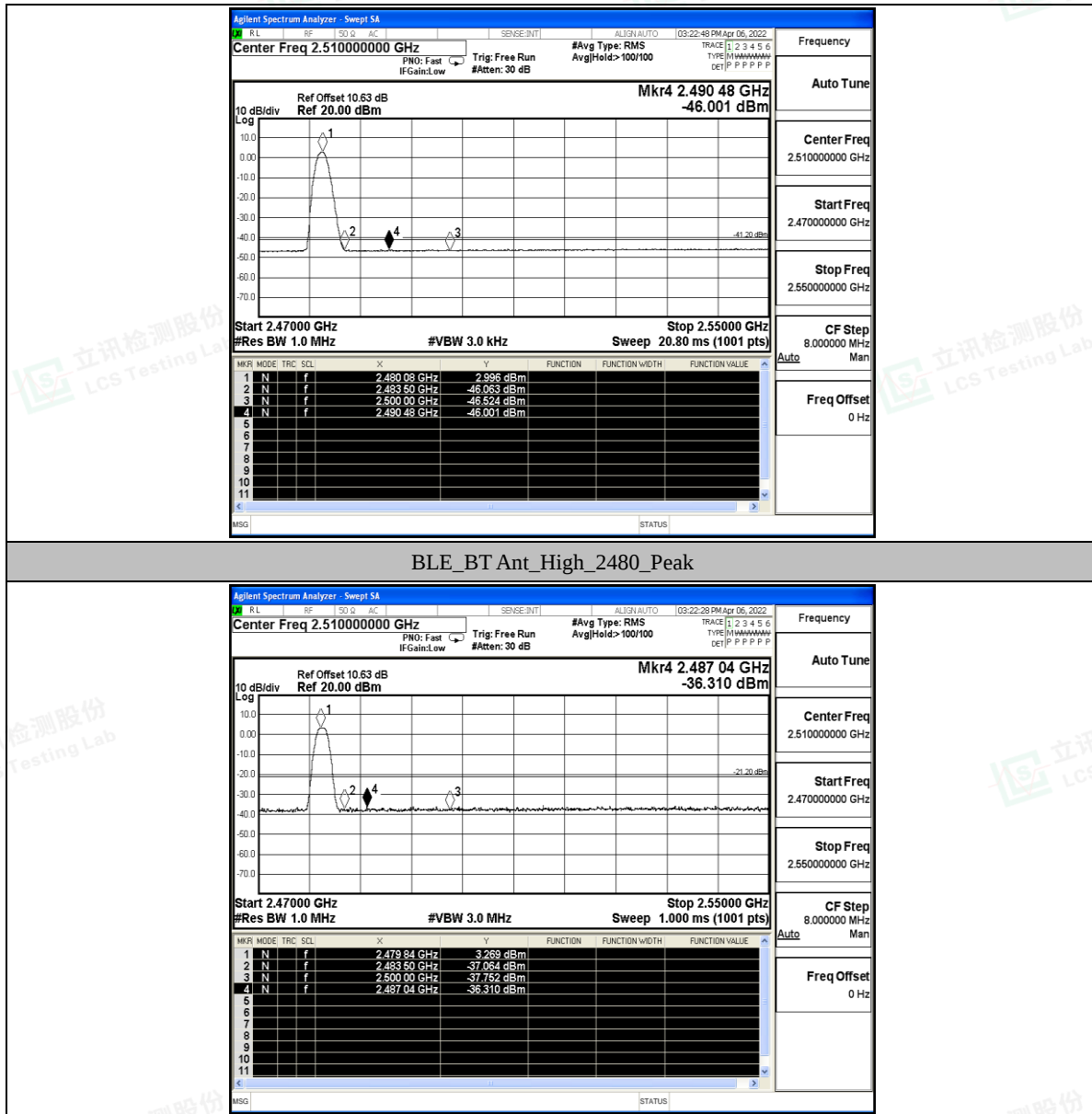


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