



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Tablet Pc

Test Model: P81L

Environmental Conditions

Temperature:	23.5° 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	Ant	2402	0.688	2401.648	2402.336	0.5	PASS
		2440	0.700	2439.640	2440.340	0.5	PASS
		2480	0.688	2479.648	2480.336	0.5	PASS

Test Graphs



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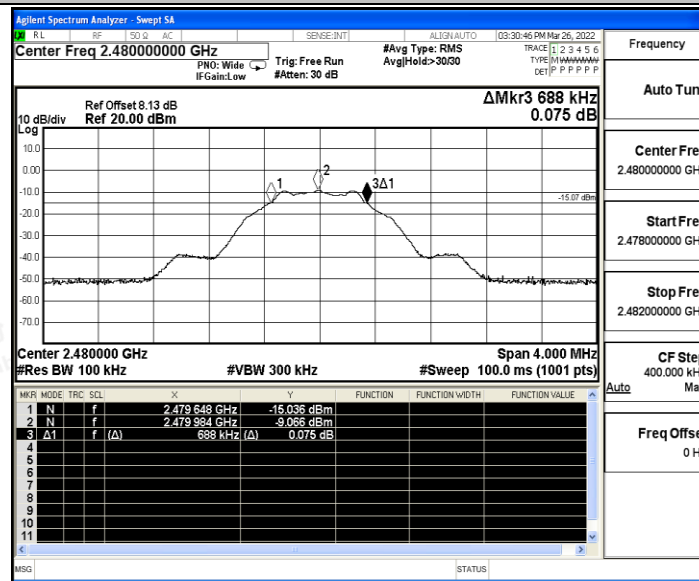
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BLE_1M_Ant_2480



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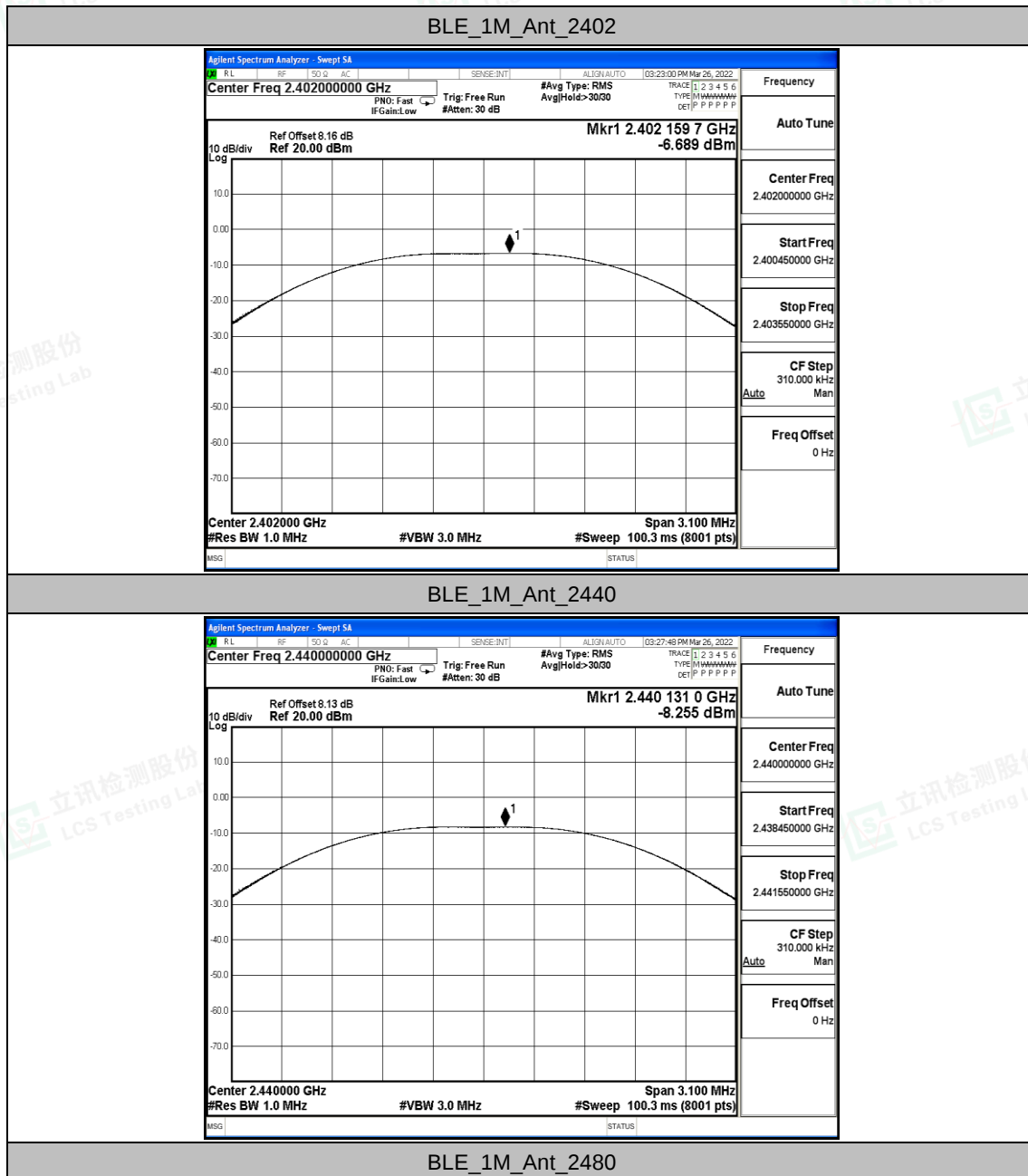


B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	2402	-6.69	≤30	PASS
		2440	-8.26	≤30	PASS
		2480	-8.31	≤30	PASS

Test Graphs

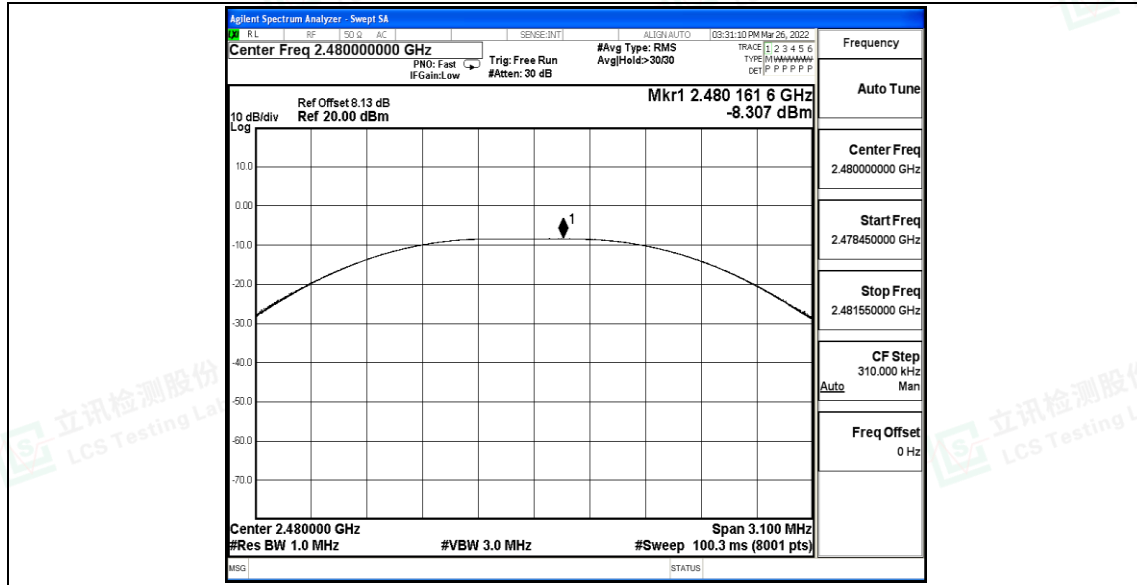


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B.3 Maximum power spectral density

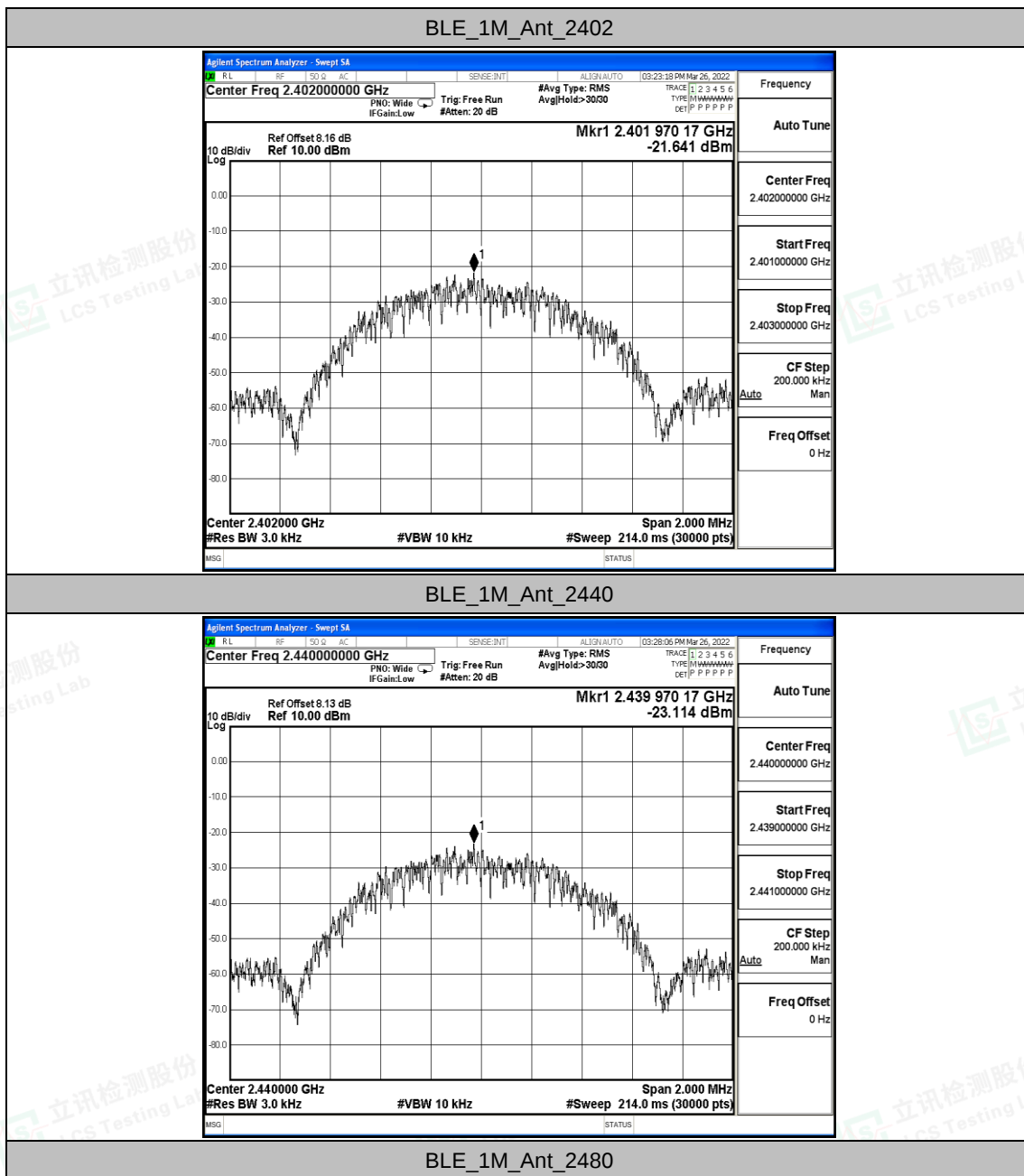
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant	2402	-21.64	≤8.00	PASS
		2440	-23.11	≤8.00	PASS
		2480	-23.33	≤8.00	PASS





Test Graphs

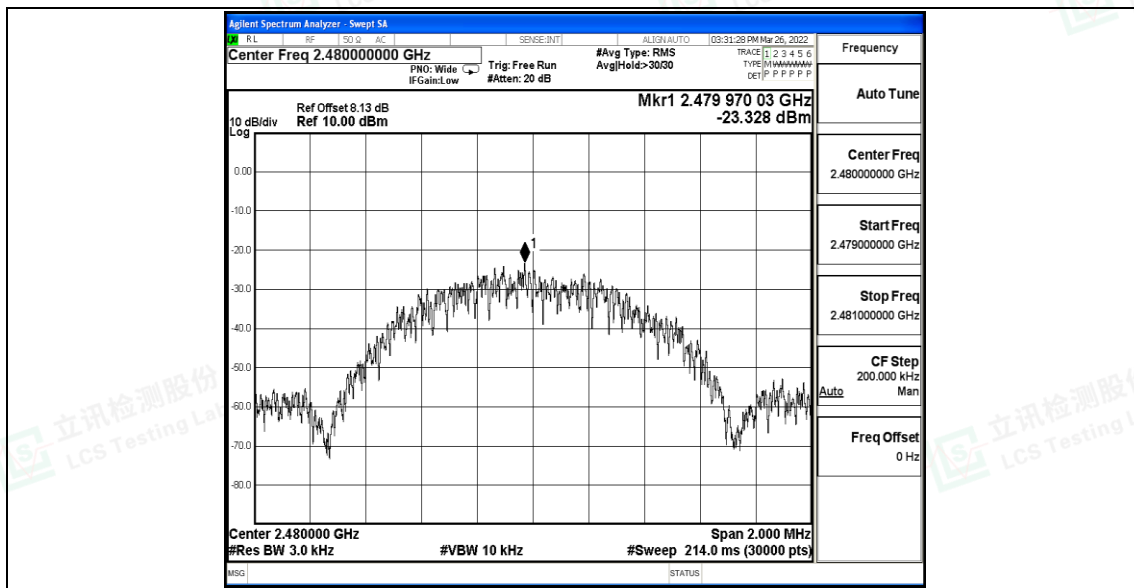


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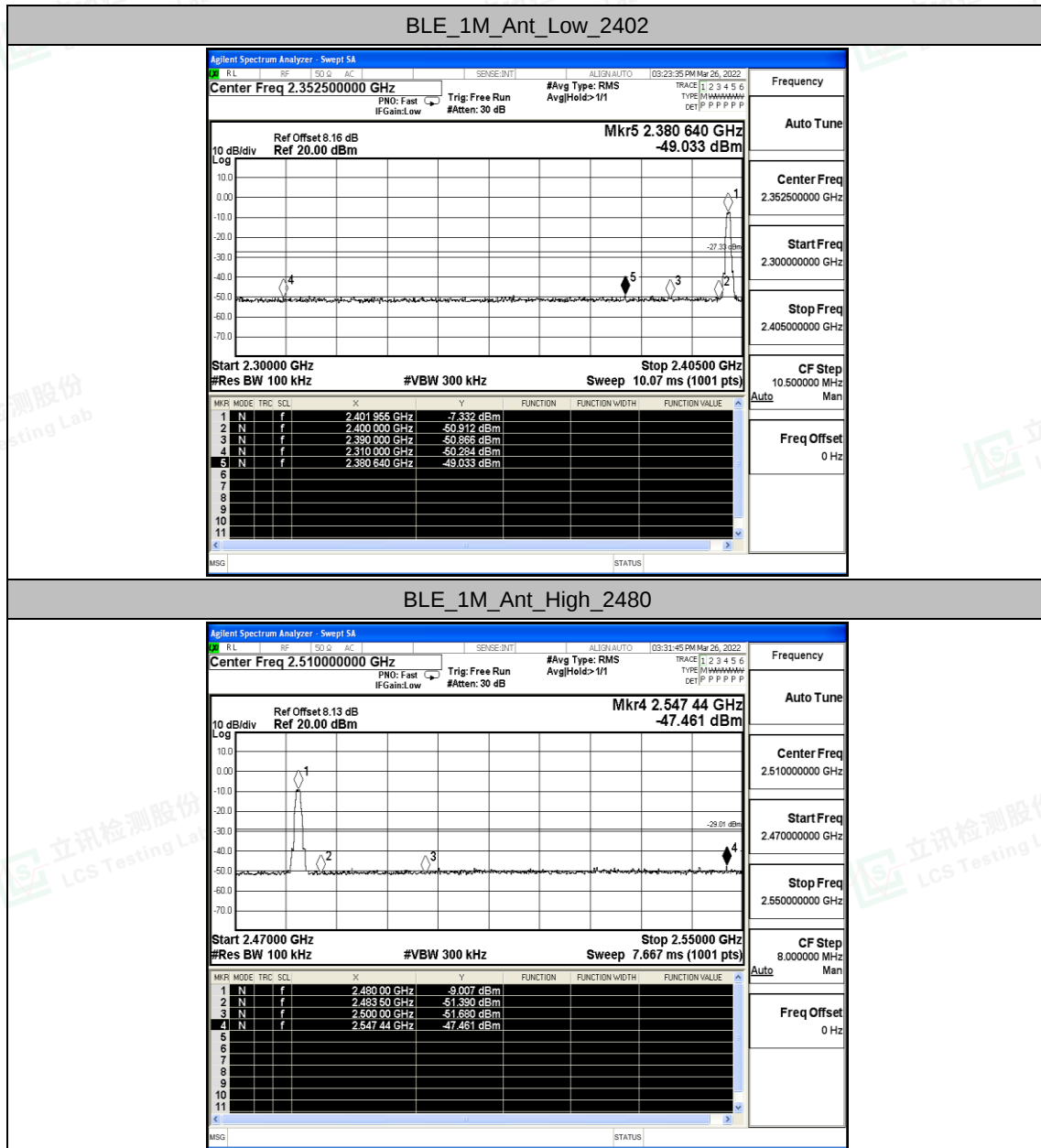


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	Low	2402	-7.33	-49.03	≤-27.33	PASS
		High	2480	-9.01	-47.46	≤-29.01	PASS

Test Graphs



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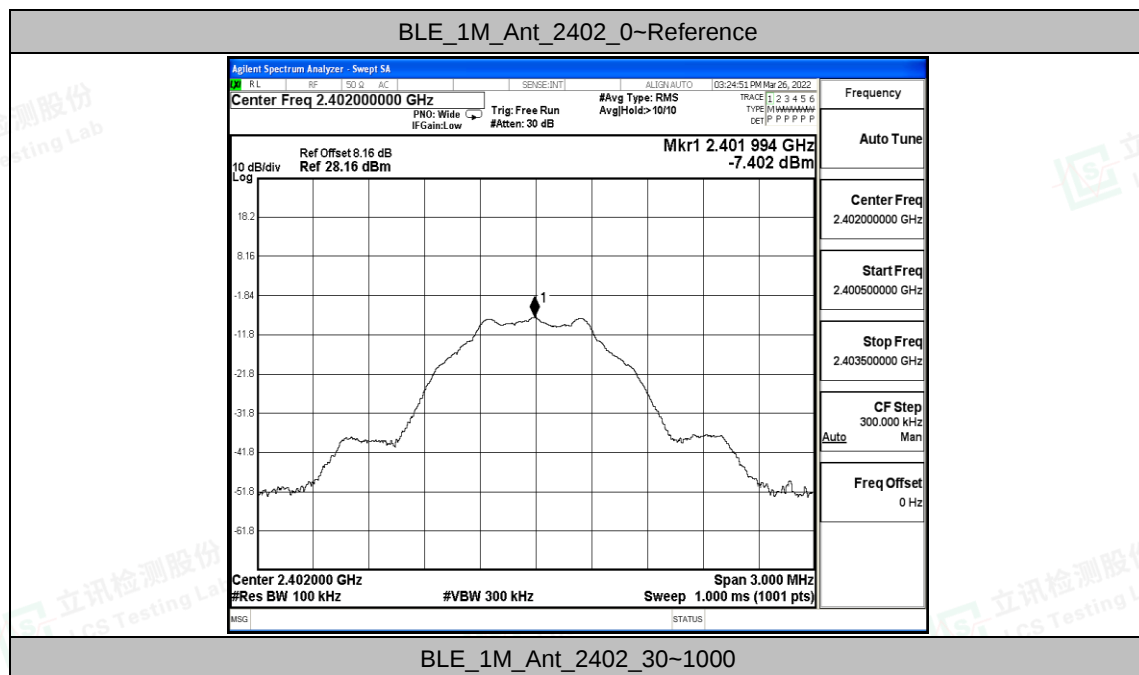


B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	2402	Reference	-7.40	-7.40	---	PASS
			30~1000	-7.40	-59.15	≤-27.4	PASS
			1000~26500	-7.40	-31.94	≤-27.4	PASS
		2440	Reference	-8.97	-8.97	---	PASS
			30~1000	-8.97	-42.29	≤-28.97	PASS
			1000~26500	-8.97	-44.8	≤-28.97	PASS
		2480	Reference	-9.11	-9.11	---	PASS
			30~1000	-9.11	-36.44	≤-29.11	PASS
			1000~26500	-9.11	-33.38	≤-29.11	PASS

Test Graphs

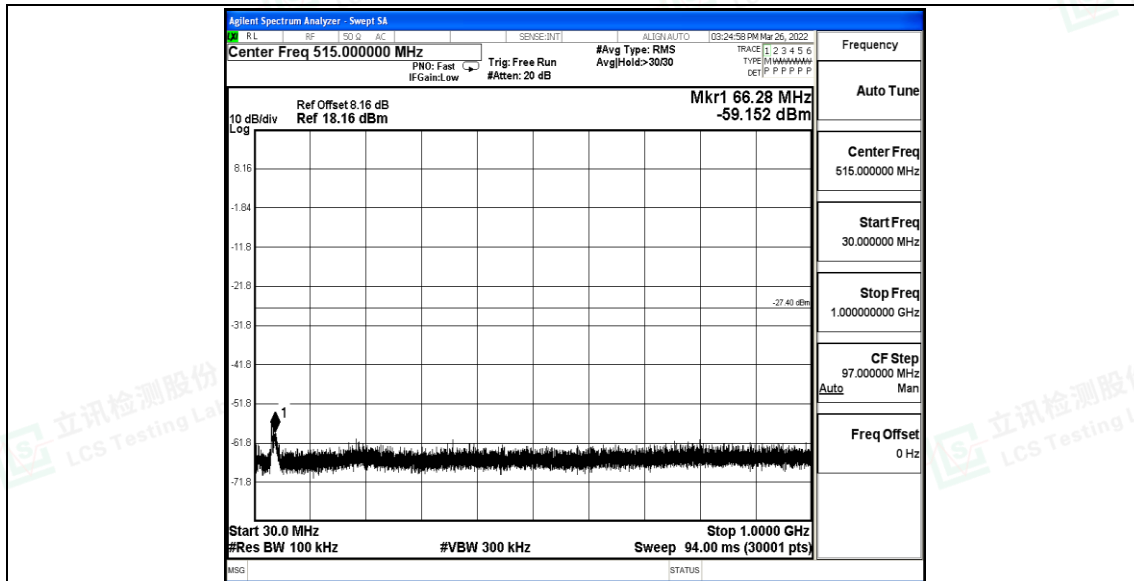


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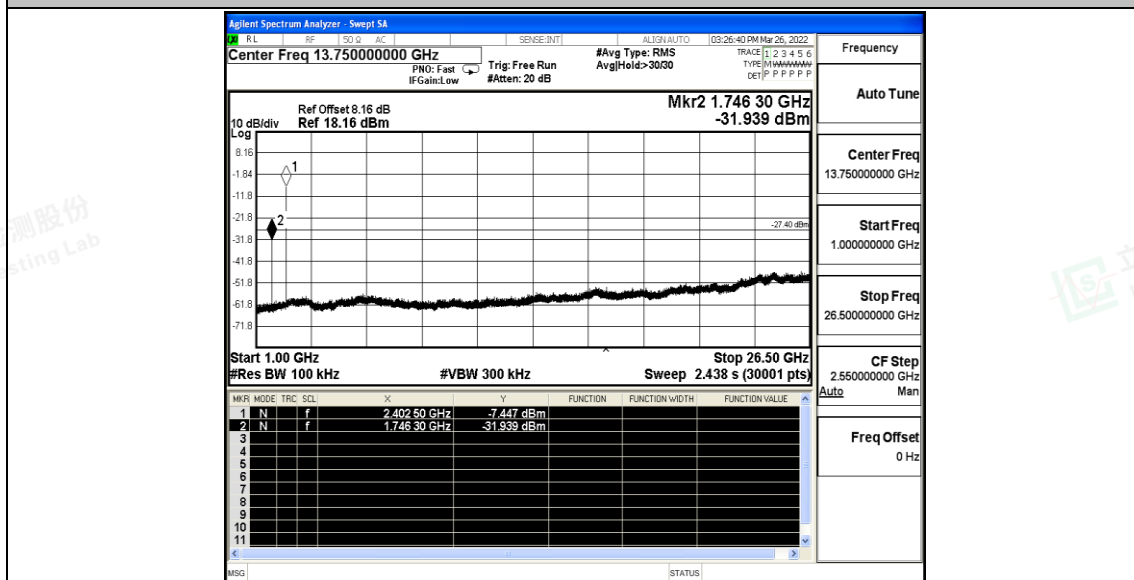
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BLE_1M_Ant_2402_1000~26500



BLE_1M_Ant_2440_0~Reference

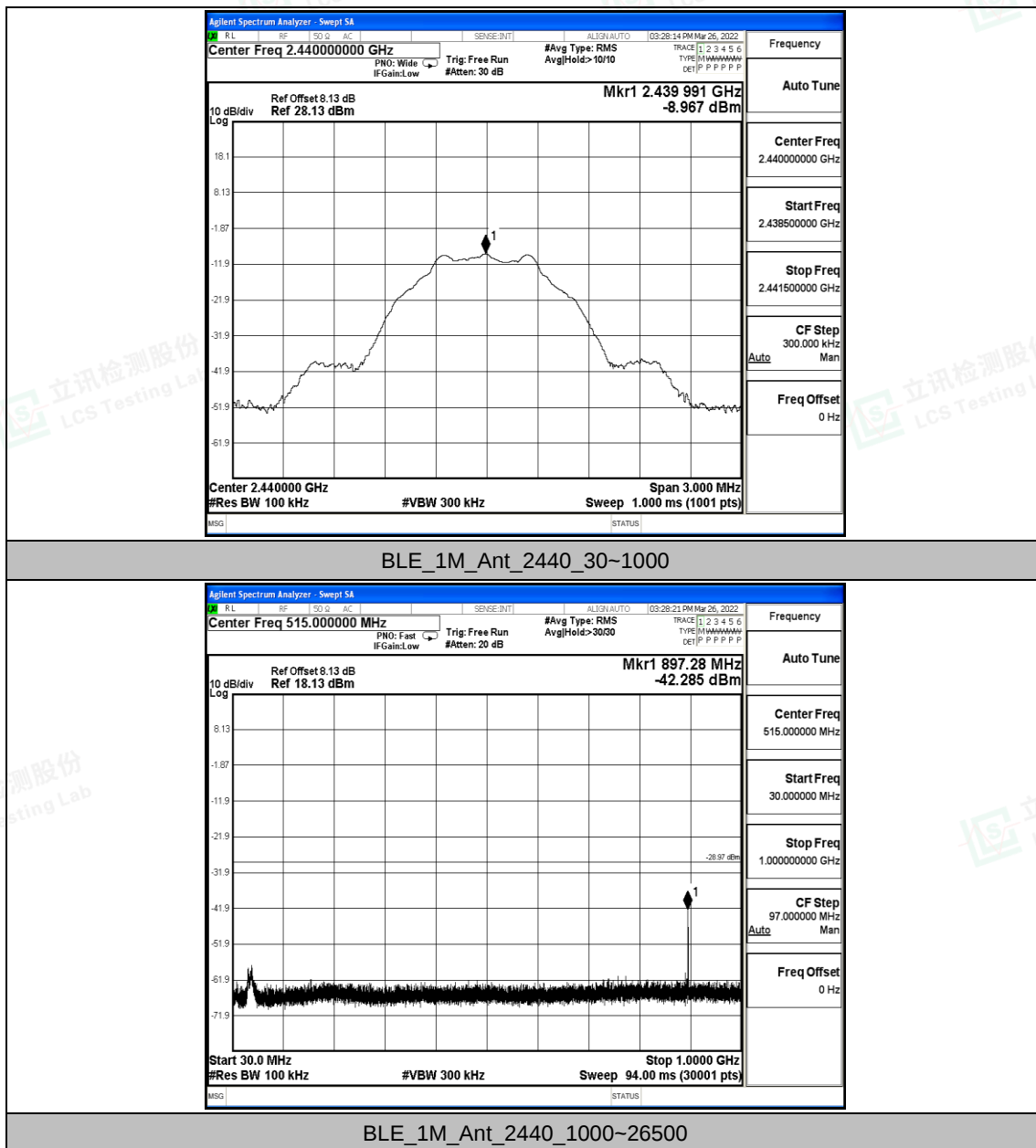


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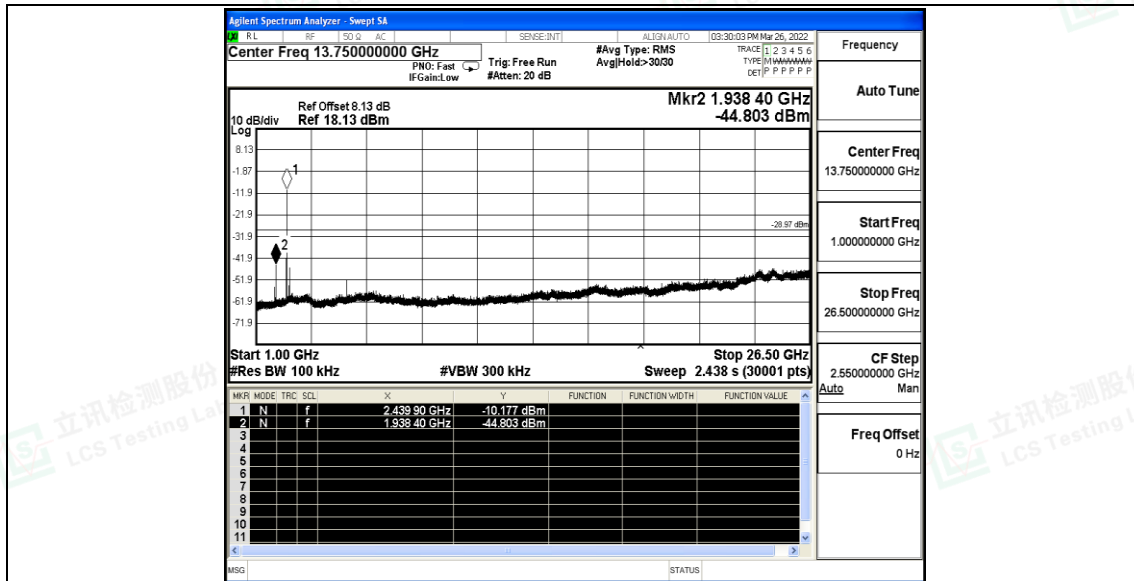


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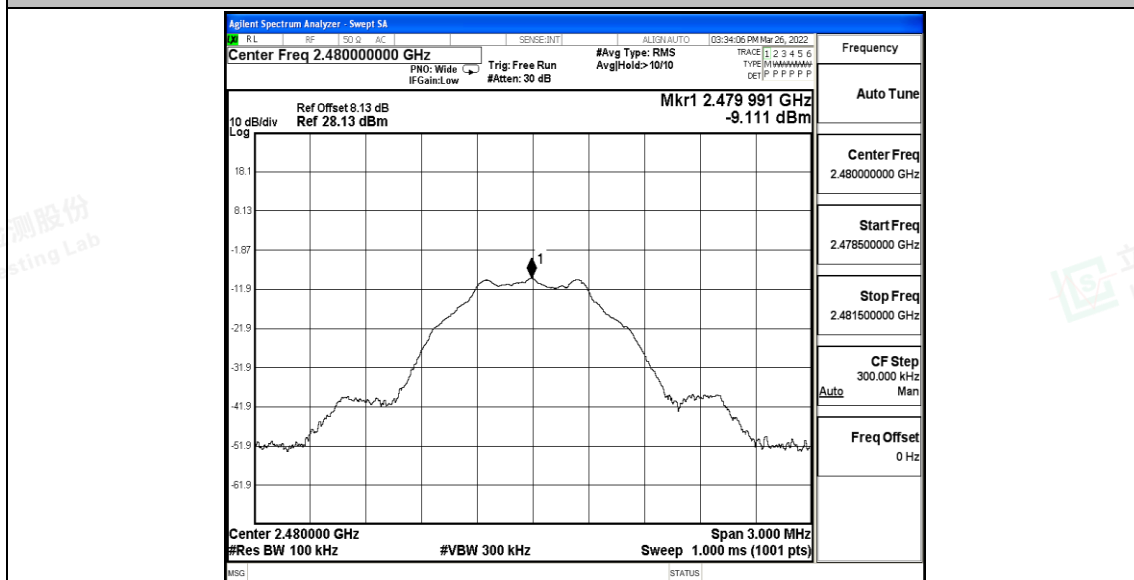
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BLE_1M_Ant_2480_0~Reference



BLE_1M_Ant_2480_30~1000

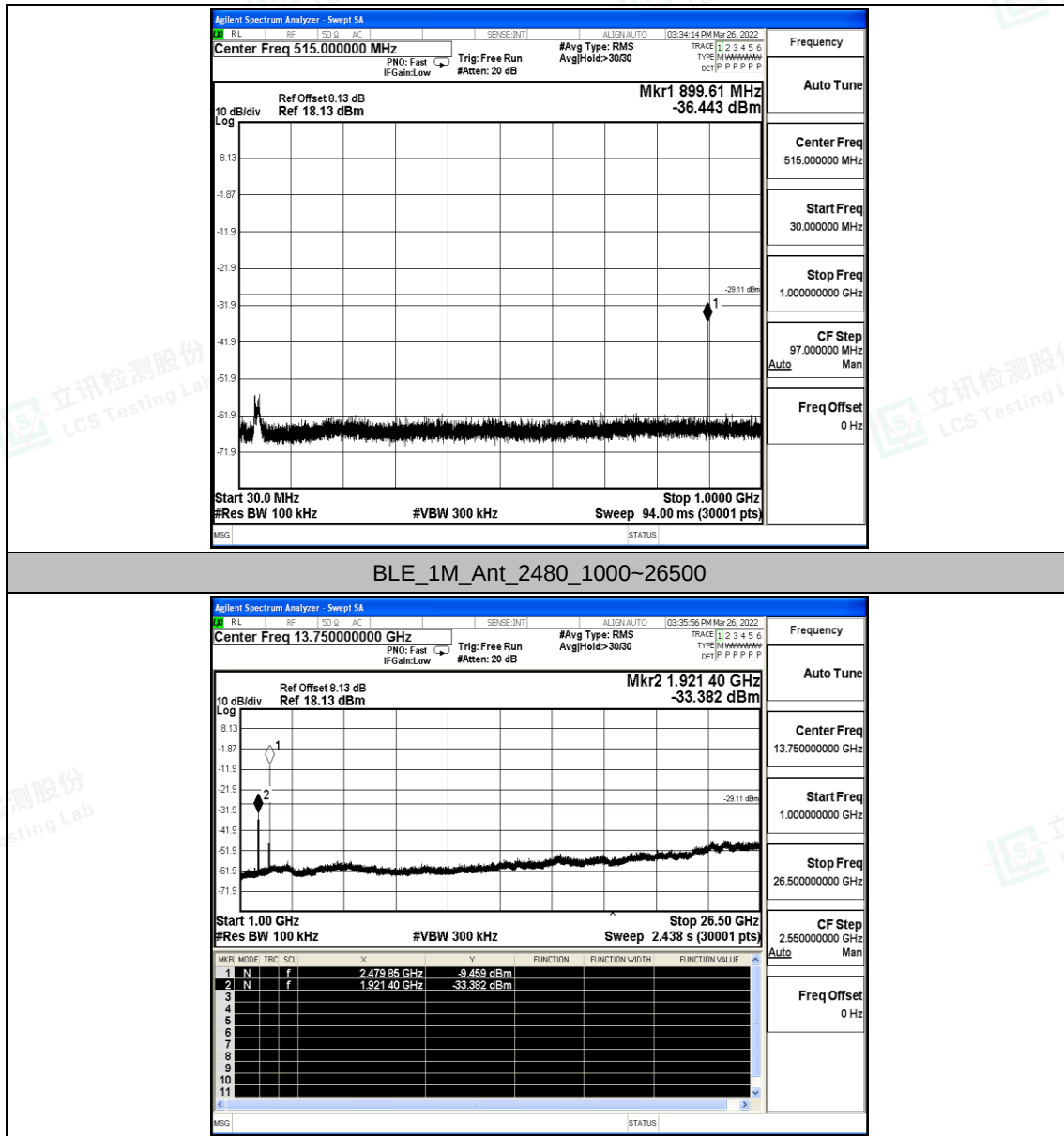


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	---	---



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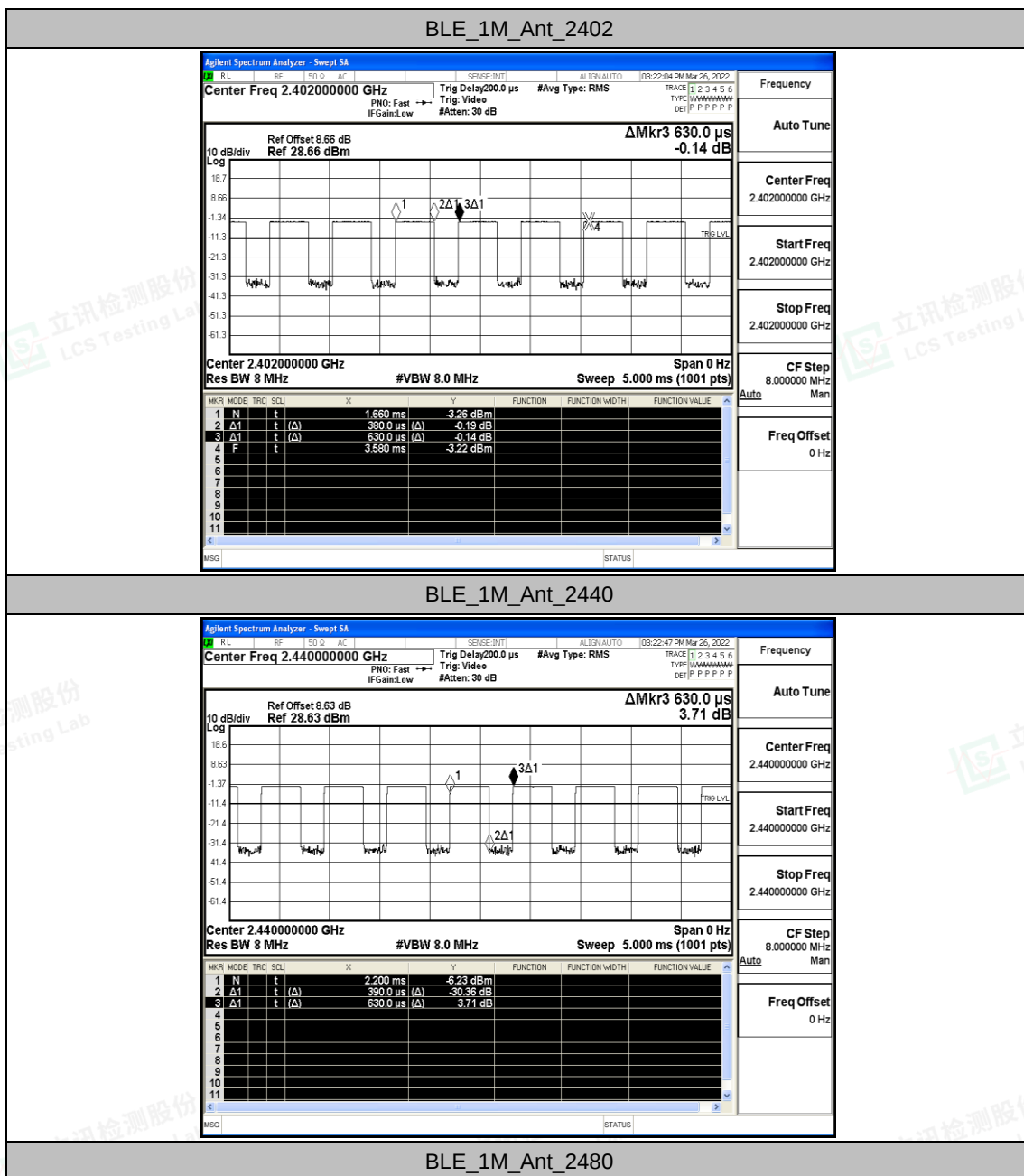
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Test Graphs

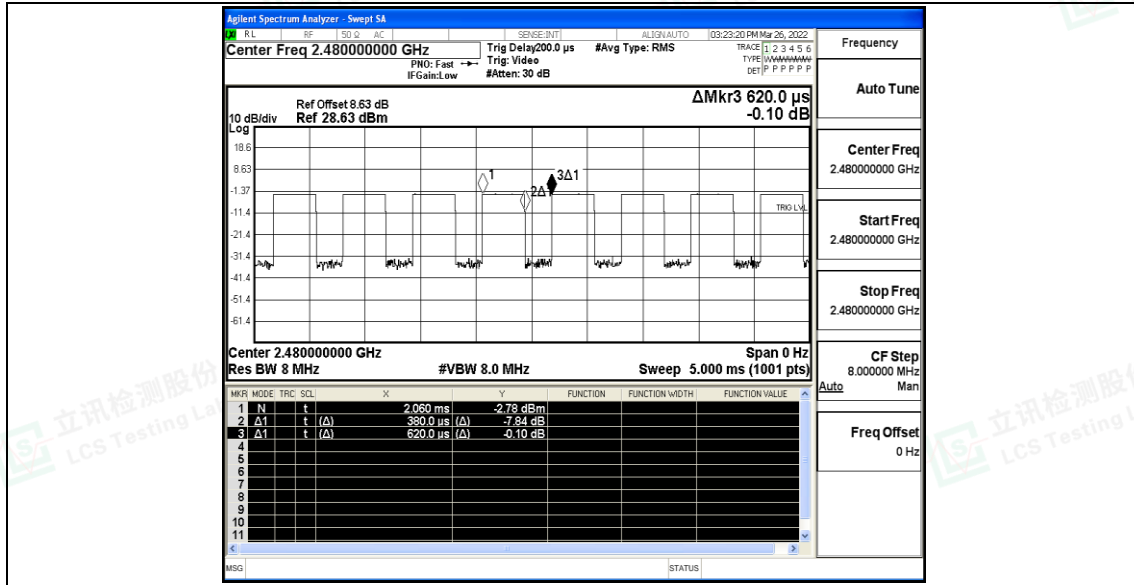


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant	Low	2402	AV	2310.000	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2389.355	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2390.000	-47.61	≤-41.20	47.59	≤54	PASS
				Peak	2310.000	-39.83	≤-21.20	55.37	≤74	PASS
				Peak	2384.210	-36.77	≤-21.20	58.43	≤74	PASS
				Peak	2390.000	-38.68	≤-21.20	56.52	≤74	PASS
		High	2480	AV	2483.500	-48.27	≤-41.20	46.93	≤54	PASS
				AV	2499.920	-48.07	≤-41.20	47.13	≤54	PASS
				AV	2500.000	-48.08	≤-41.20	47.12	≤54	PASS
				Peak	2483.500	-37.57	≤-21.20	57.63	≤74	PASS
				Peak	2484.880	-36.9	≤-21.20	58.30	≤74	PASS
				Peak	2500.000	-37.78	≤-21.20	57.42	≤74	PASS

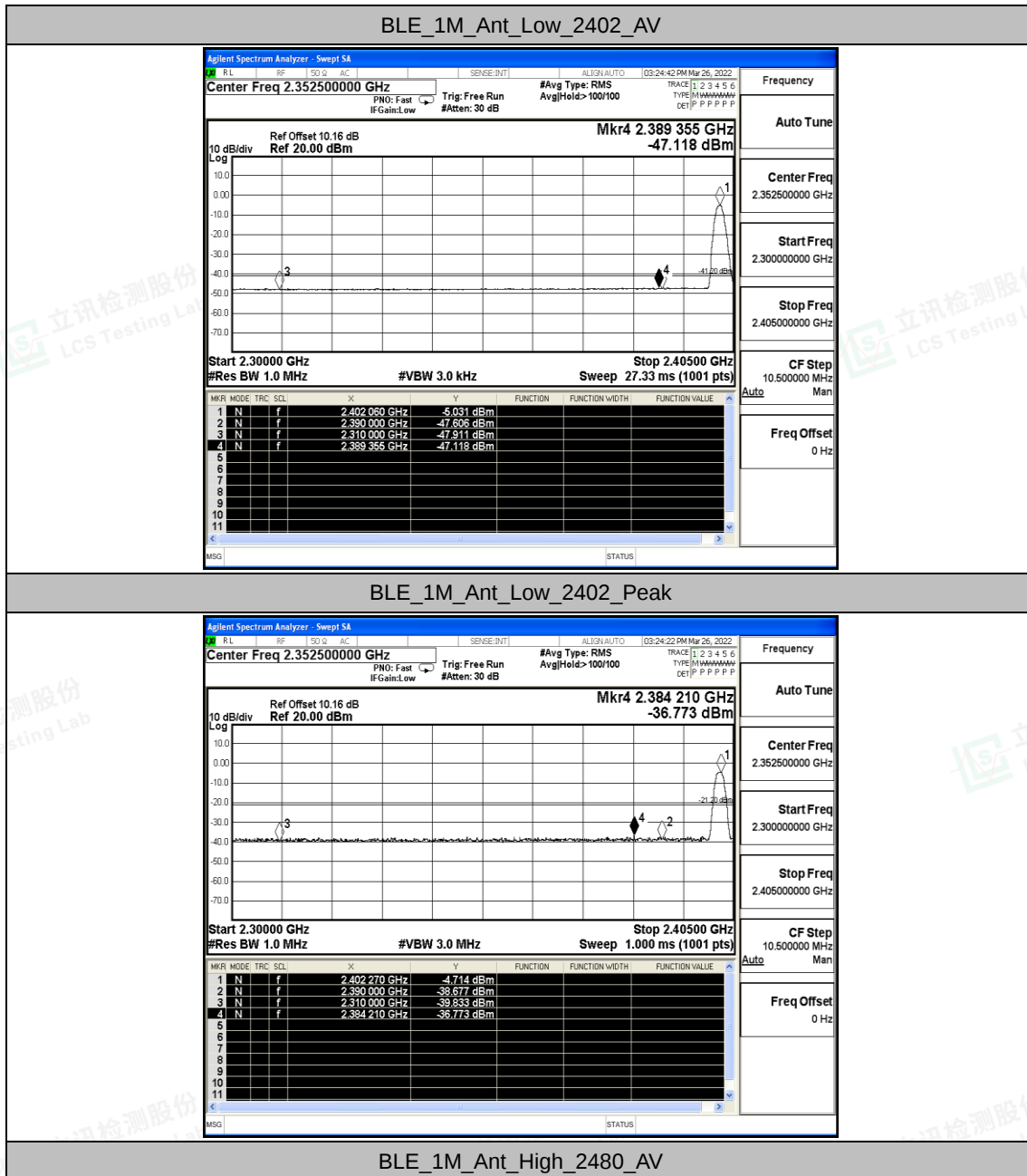
Note:

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

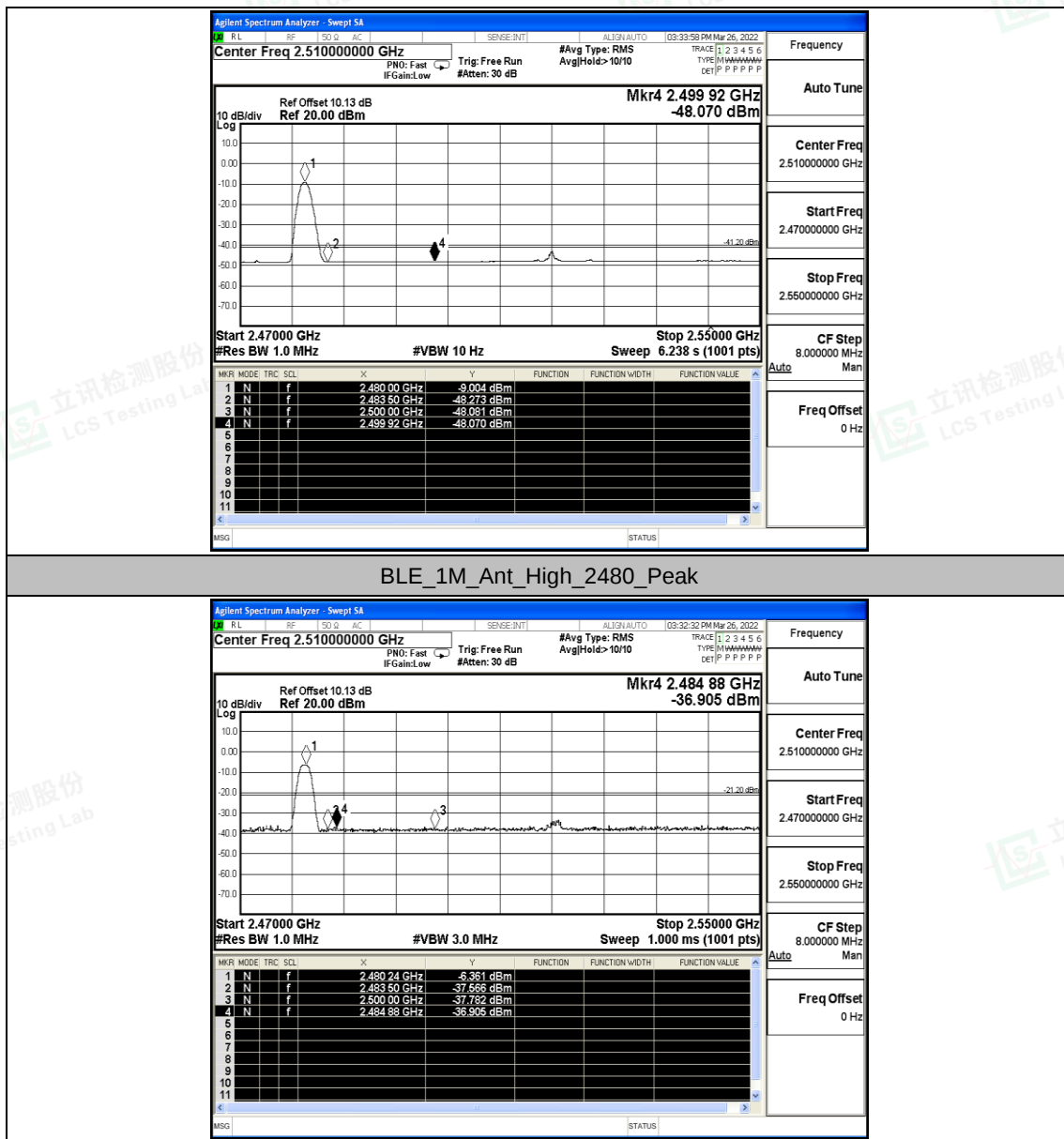


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