



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Bluetooth LED Floodlight

Test Model: D100BL

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.712	2439.636	2440.348	0.5	PASS
		2480	0.708	2479.636	2480.344	0.5	PASS



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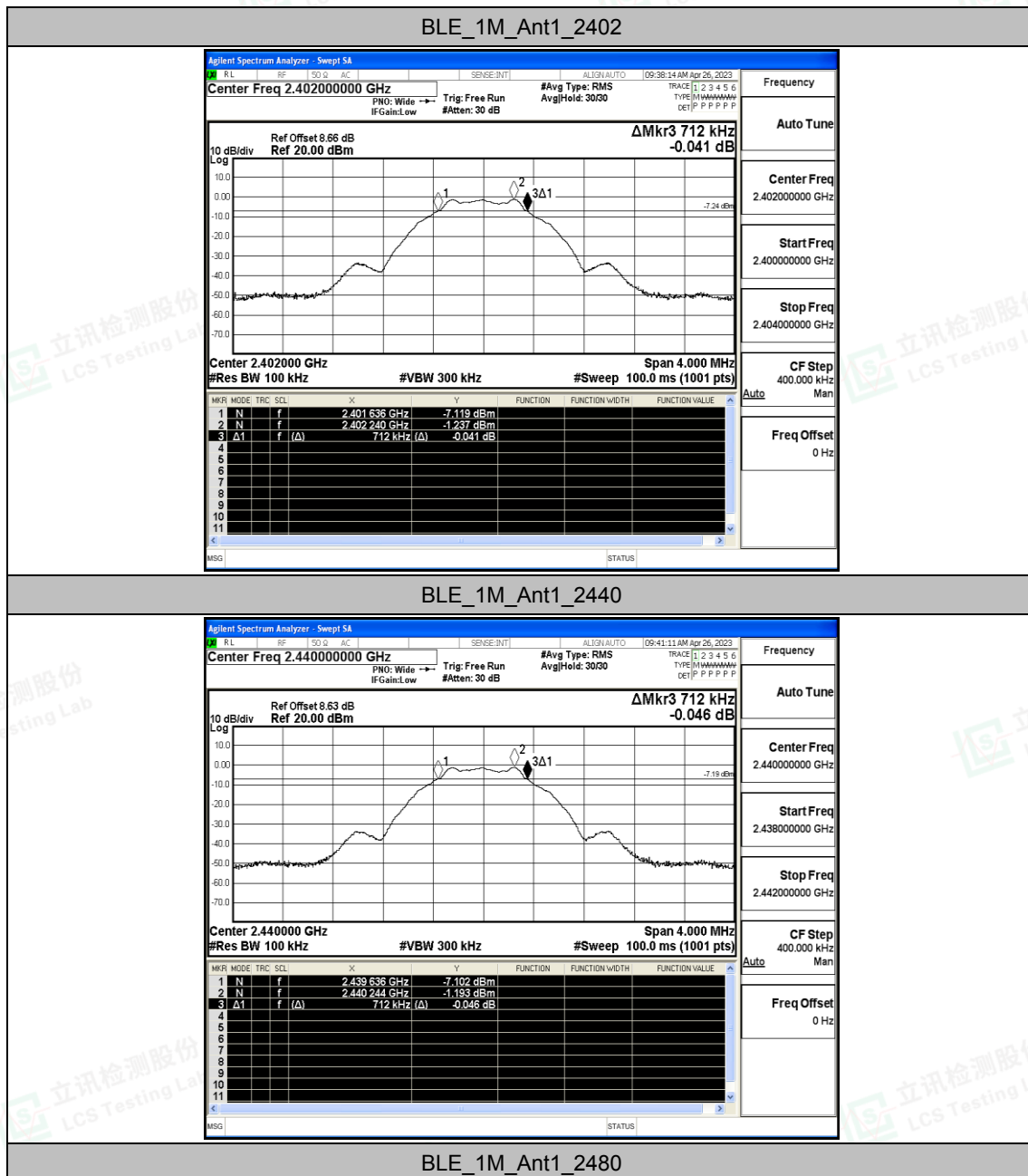
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Test Graphs



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.28	≤30	PASS
		2440	-0.18	≤30	PASS
		2480	0.09	≤30	PASS



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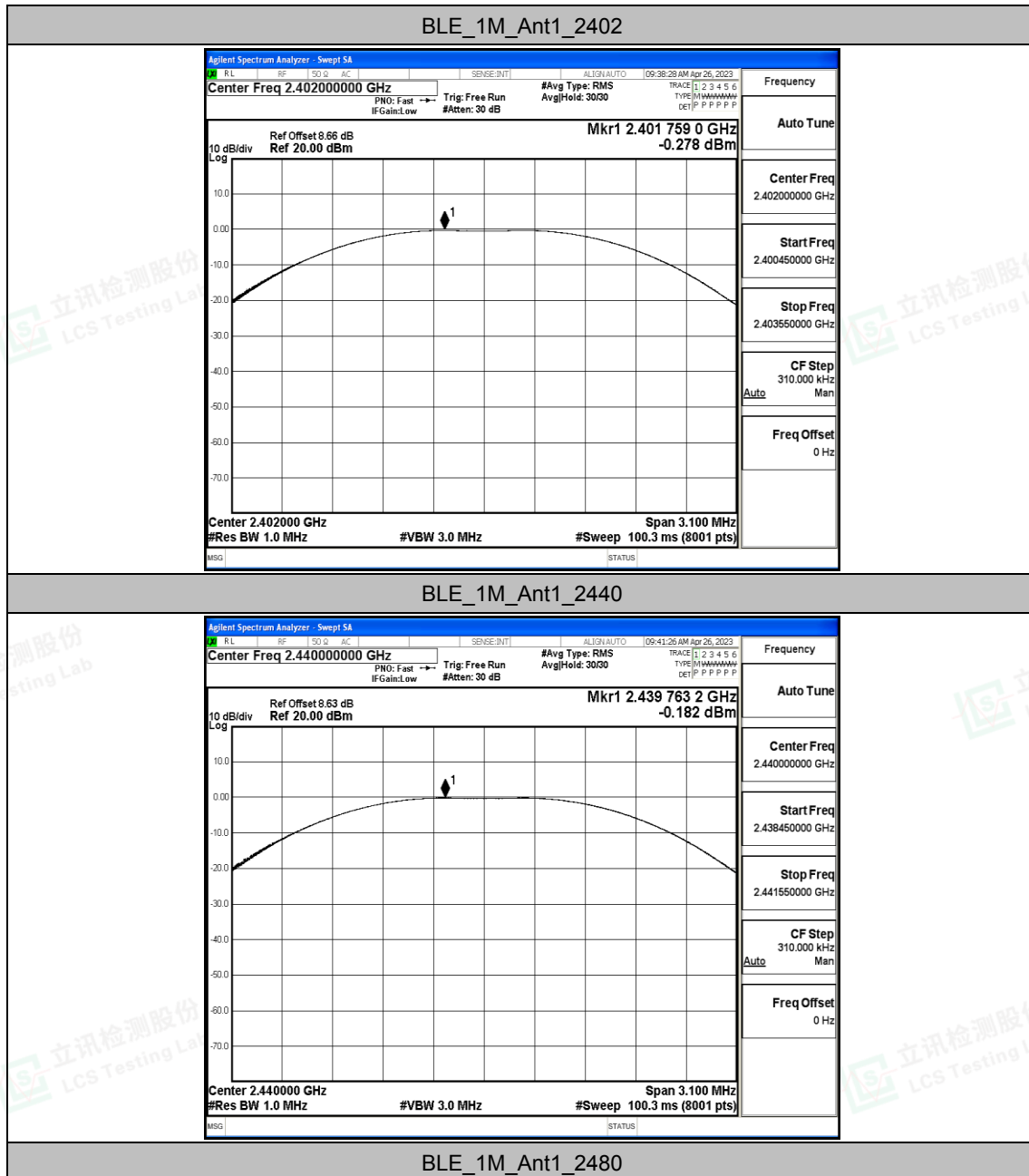
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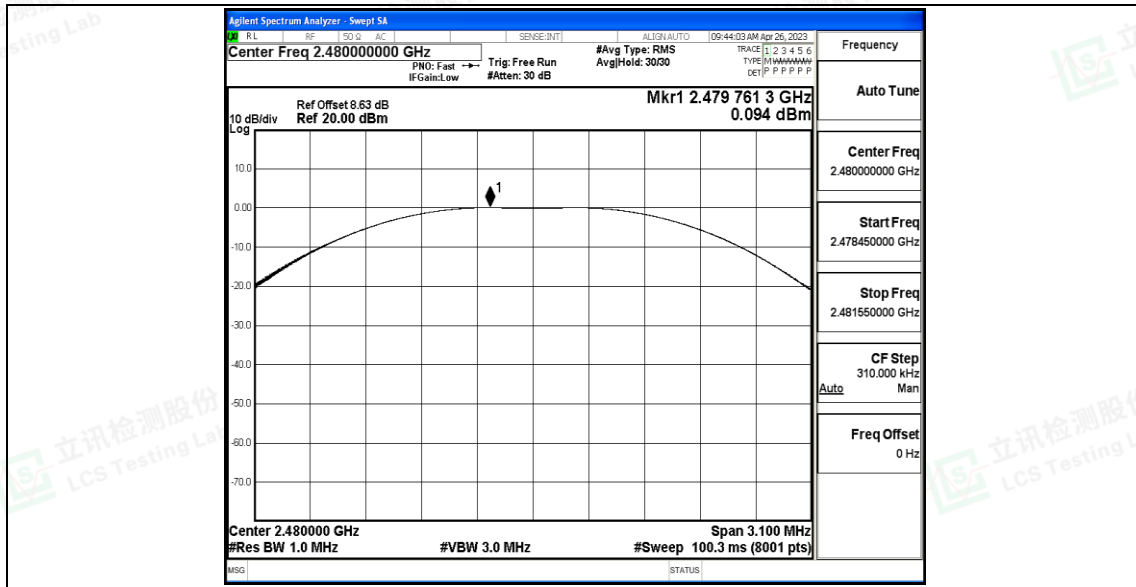


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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.42	≤8.00	PASS
		2440	-15.29	≤8.00	PASS
		2480	-14.97	≤8.00	PASS



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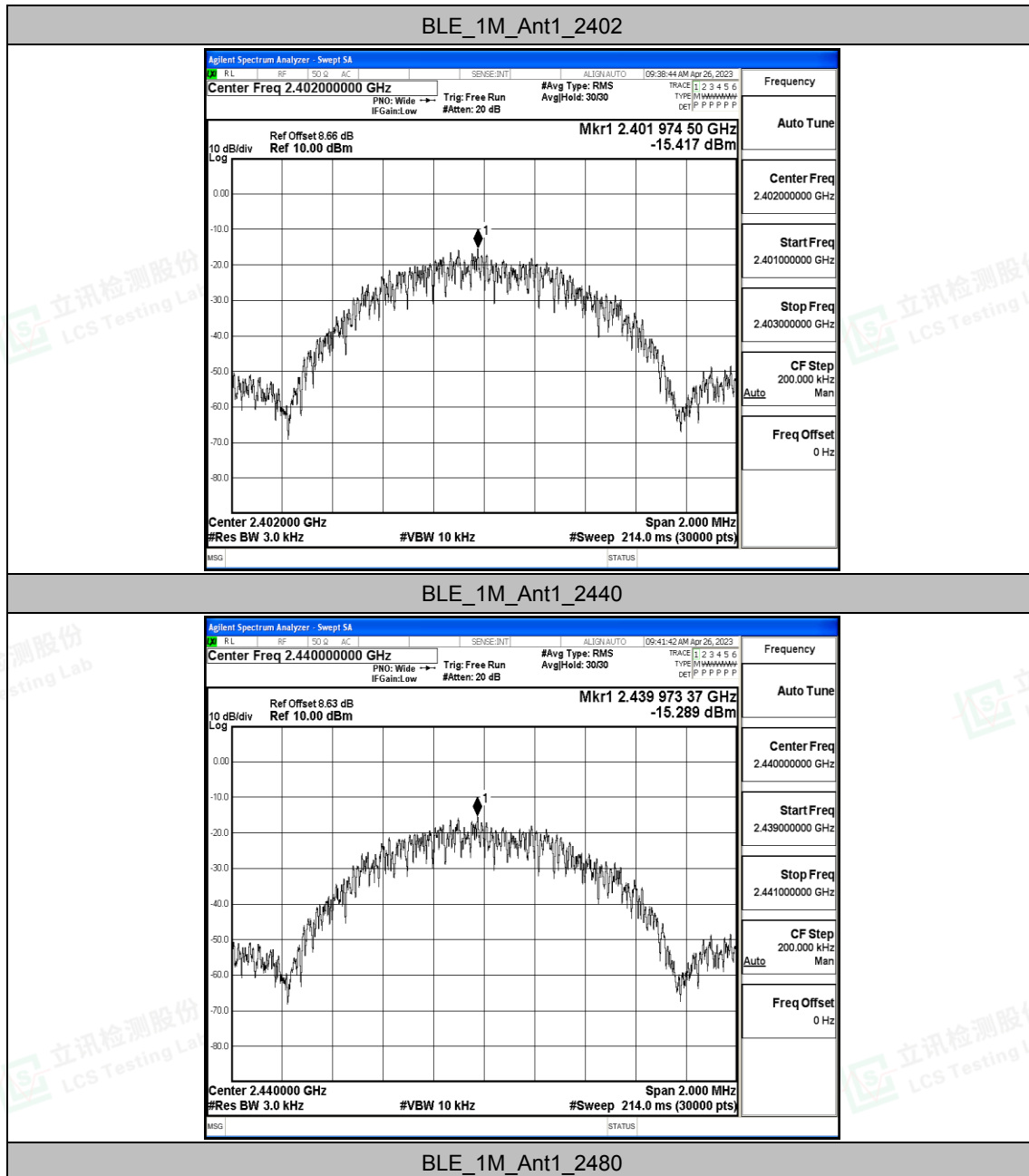
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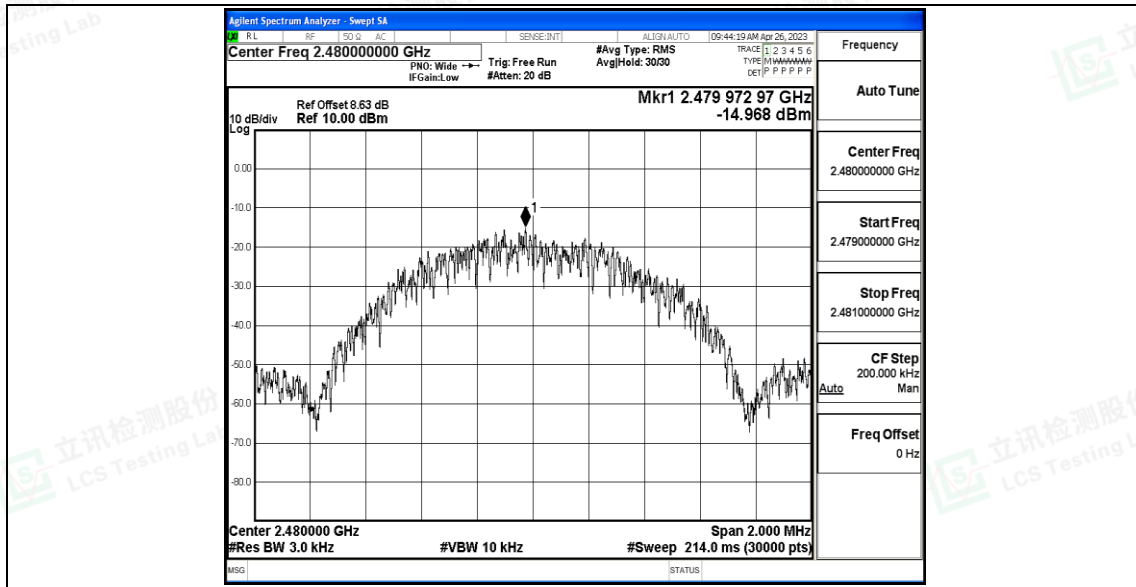


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.08	-59.41	≤ -21.08	PASS
		High	2480	-0.67	-58.07	≤ -20.67	PASS



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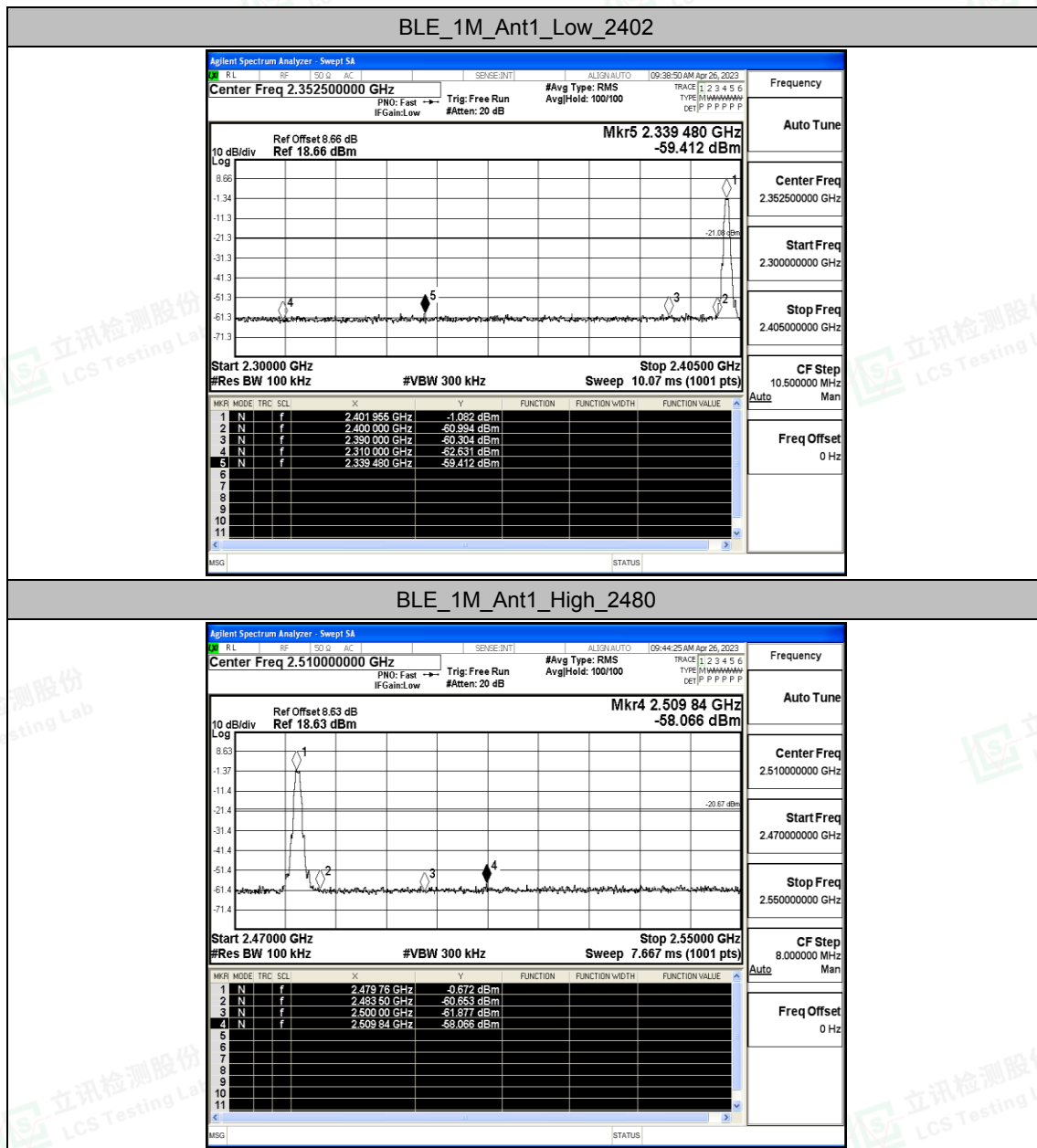
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Test Graphs



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-61	≤-22.11	PASS
			1000~26500	-2.11	-46.31	≤-22.11	PASS
		2440	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-60.82	≤-22.11	PASS
			1000~26500	-2.11	-45.98	≤-22.11	PASS
		2480	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-60.71	≤-21.89	PASS
			1000~26500	-1.89	-46.4	≤-21.89	PASS



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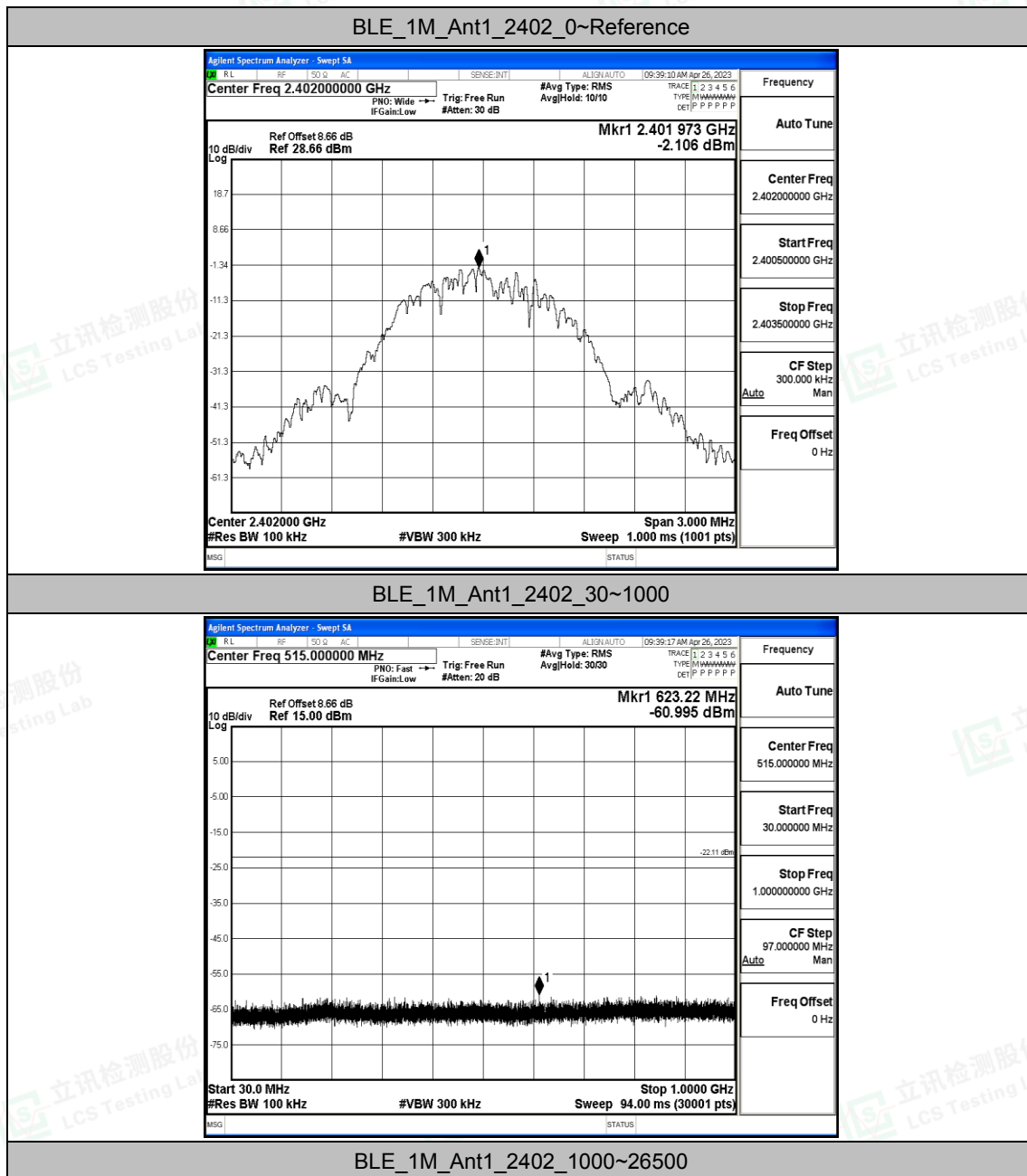
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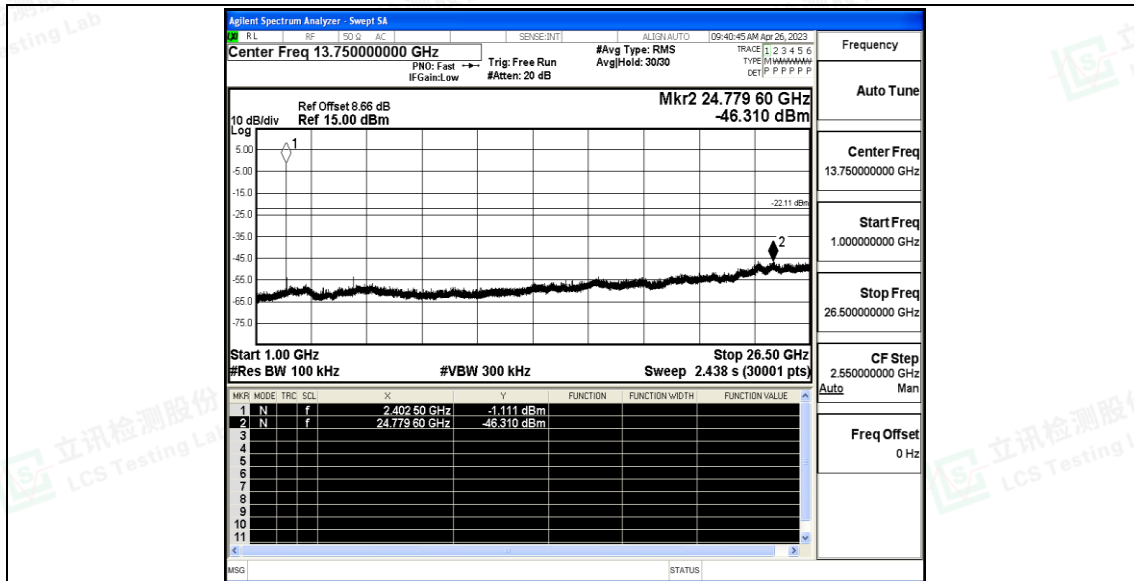


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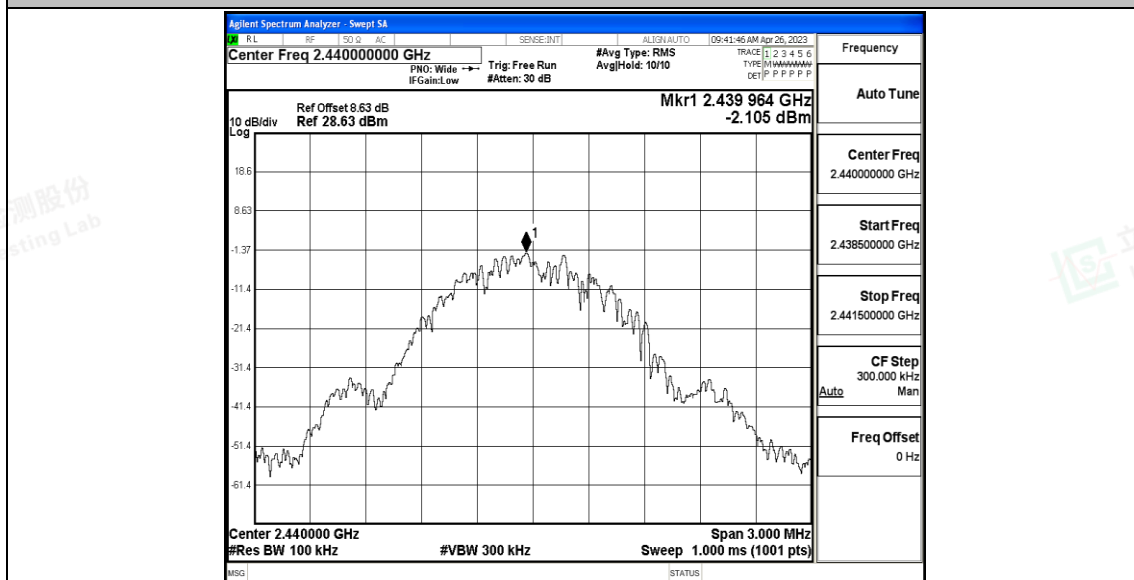
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

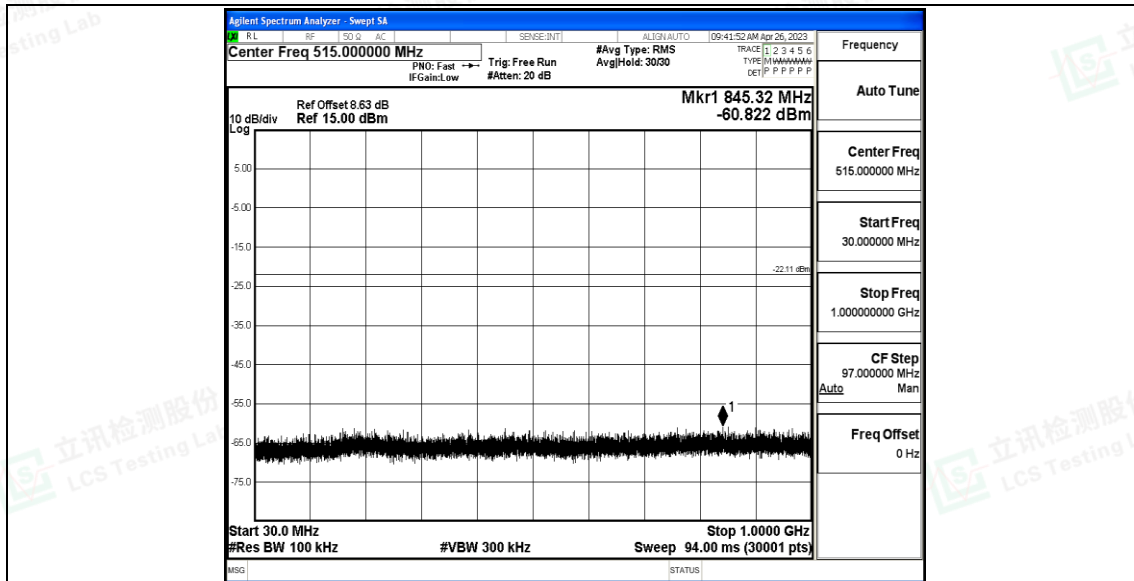


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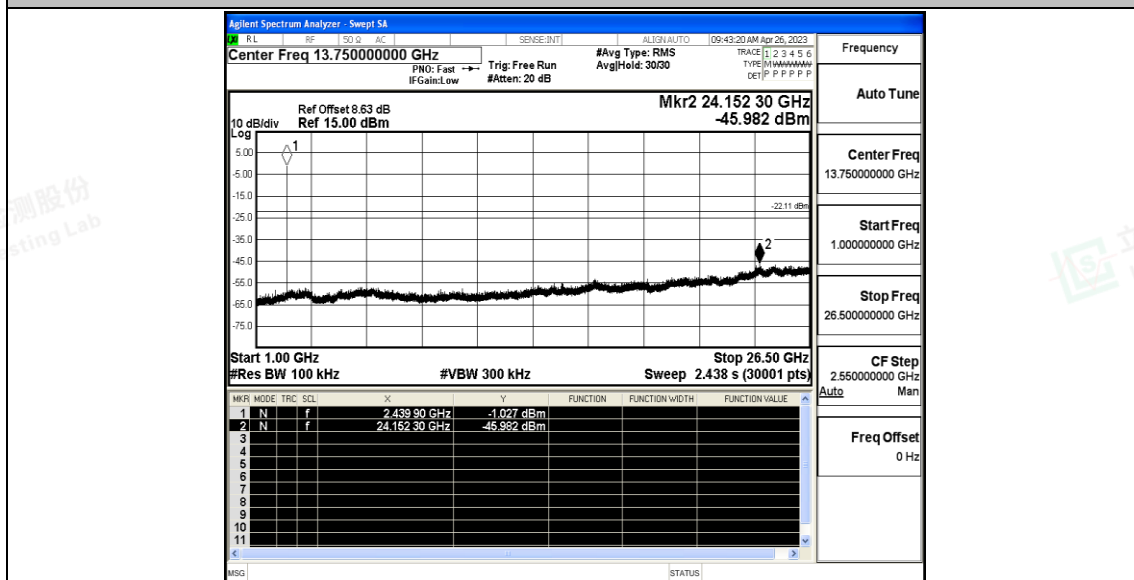
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

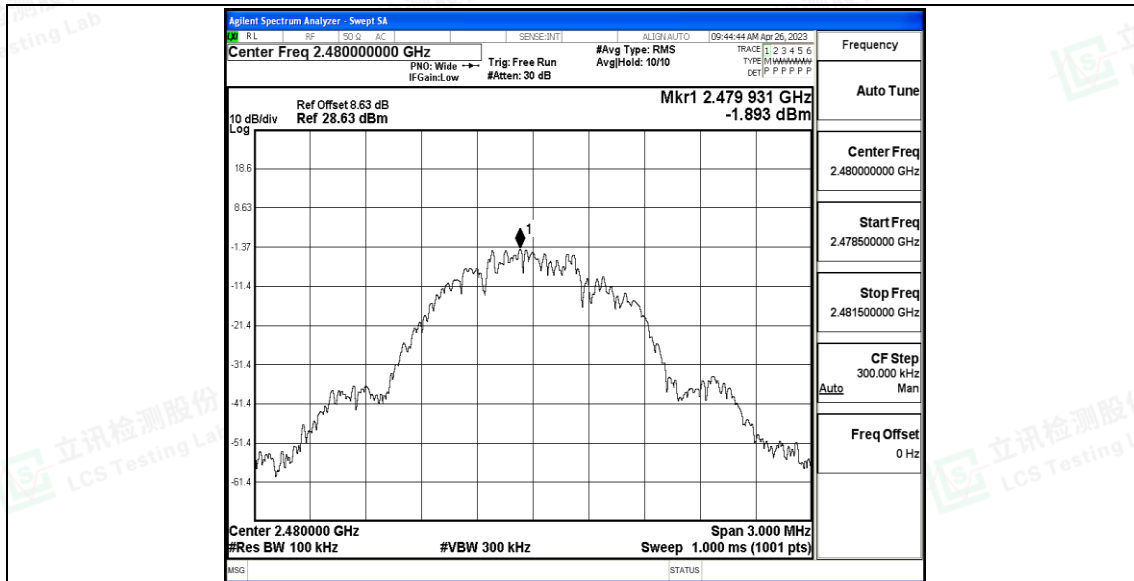


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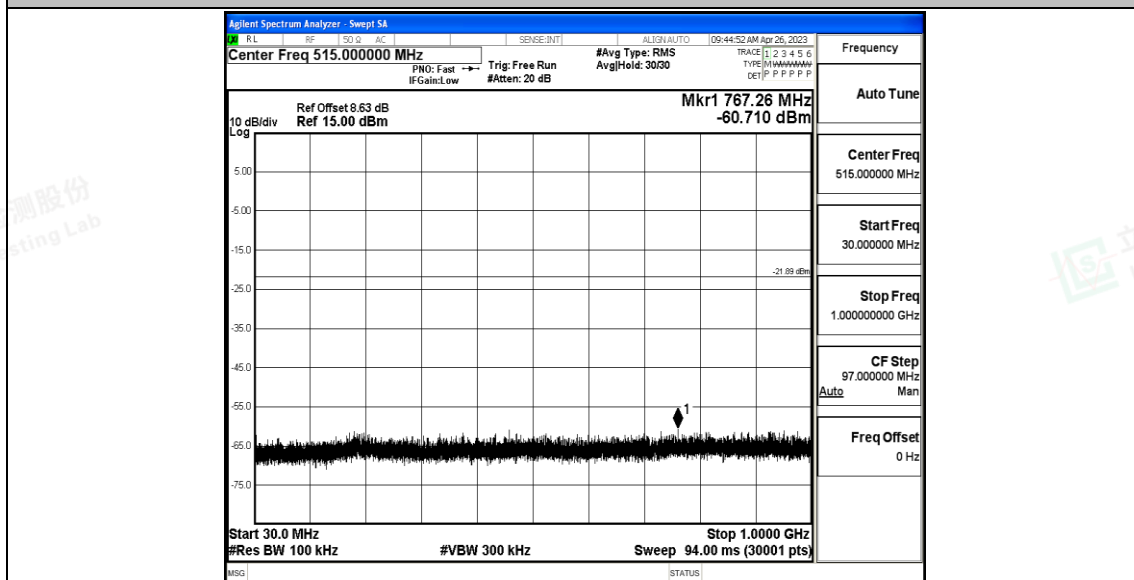
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

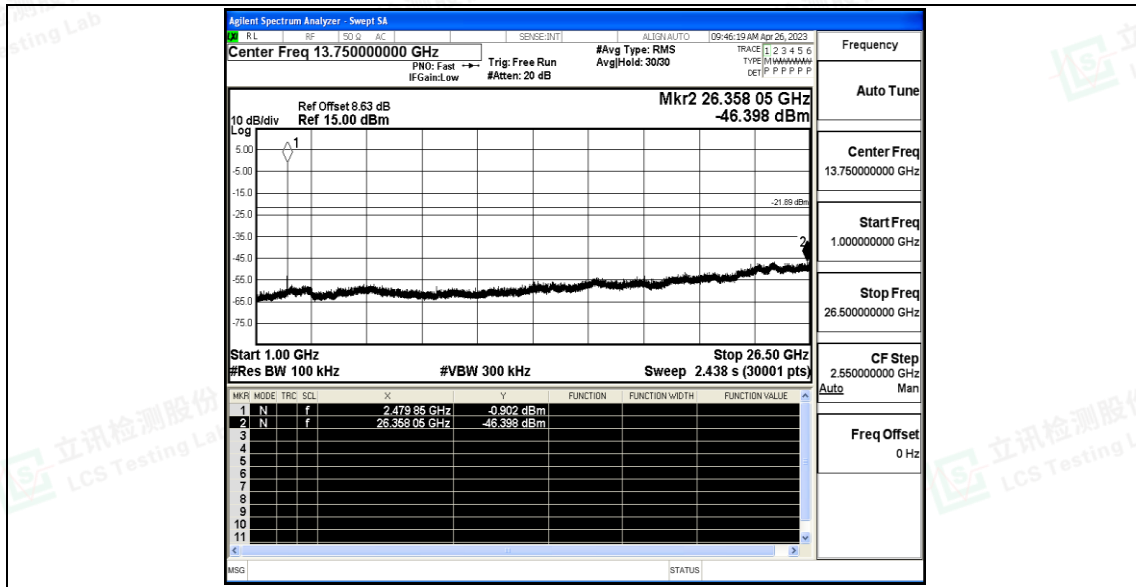


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A.6 Duty Cycle

Test Result

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



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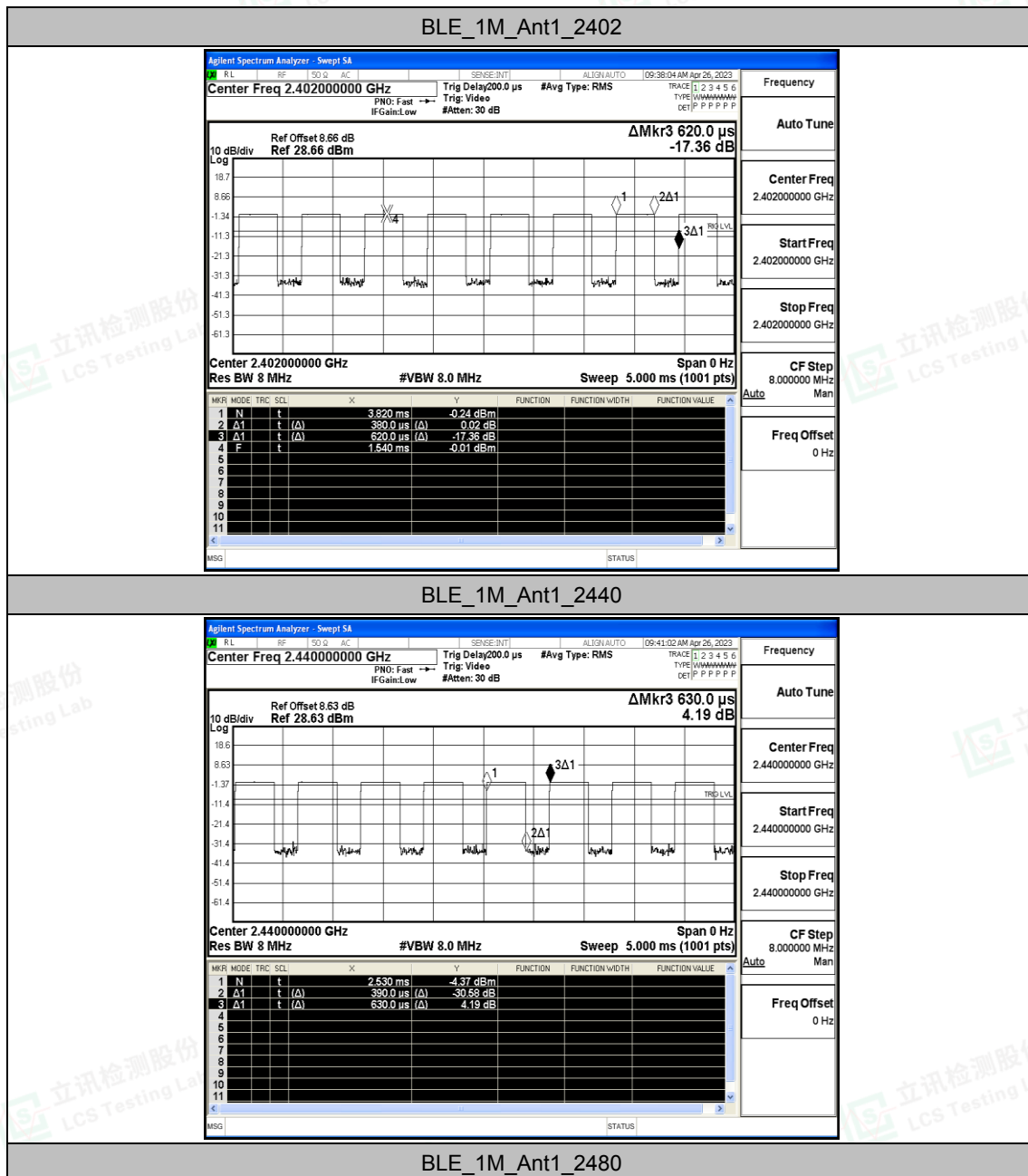
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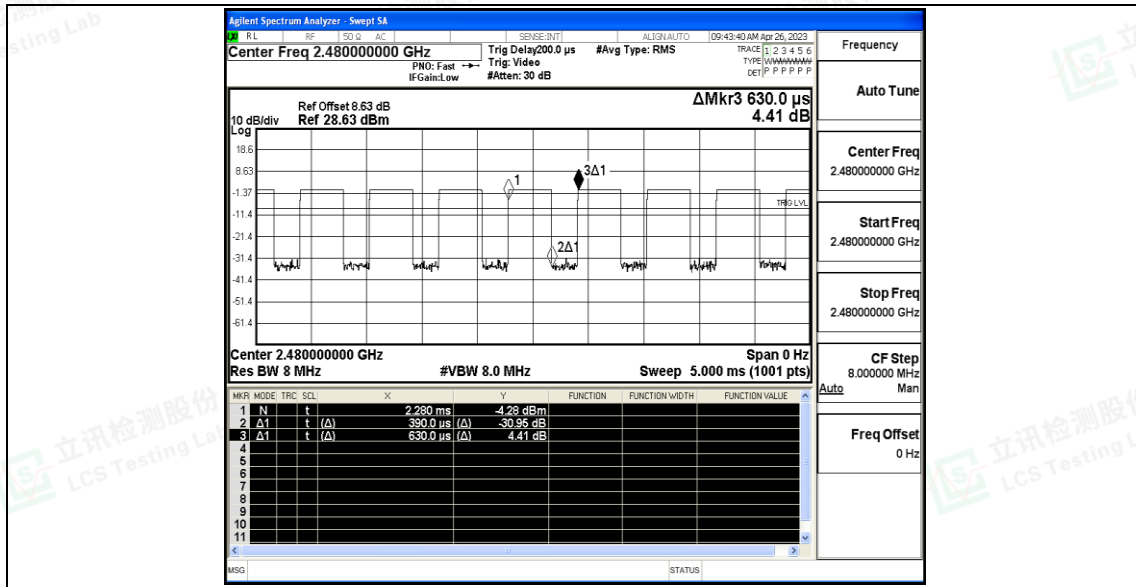


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A.7 Emissions in Restricted Bands

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	-57.34	≤-41.20	37.86	≤54	PASS
				AV	2389.775	-56.67	≤-41.20	38.53	≤54	PASS
				AV	2390.000	-56.98	≤-41.20	38.22	≤54	PASS
				Peak	2310.000	-49.87	≤-21.20	45.33	≤74	PASS
				Peak	2366.570	-47.21	≤-21.20	47.99	≤74	PASS
				Peak	2390.000	-48.94	≤-21.20	46.26	≤74	PASS
		High	2480	AV	2483.500	-53.7	≤-41.20	41.50	≤54	PASS
				AV	2483.520	-53.7	≤-41.20	41.50	≤54	PASS
				AV	2500.000	-56.48	≤-41.20	38.72	≤54	PASS
				Peak	2483.500	-50.7	≤-21.20	44.50	≤74	PASS
				Peak	2484.080	-46.77	≤-21.20	48.43	≤74	PASS
				Peak	2500.000	-50.31	≤-21.20	44.89	≤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.



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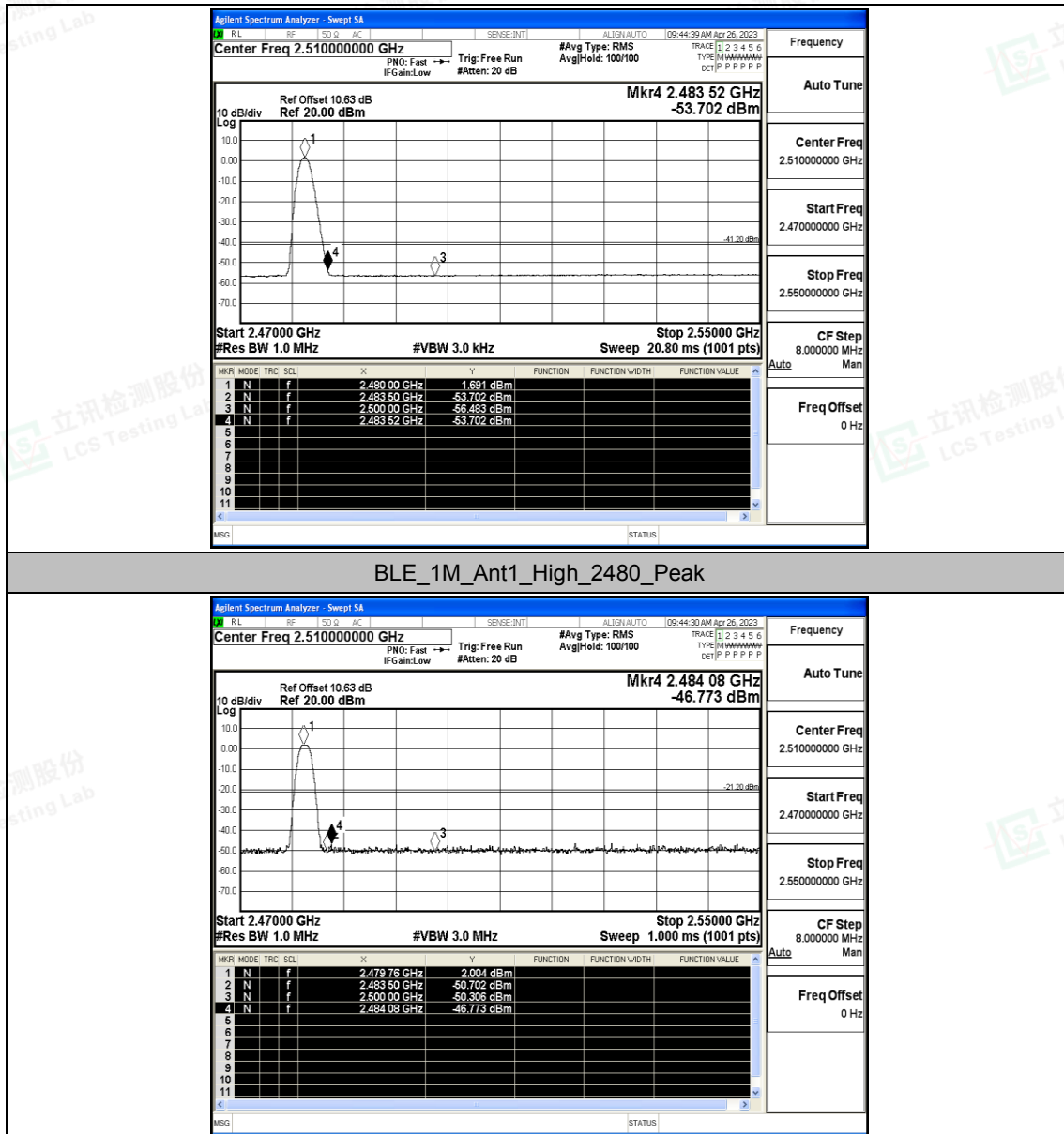


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