



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: MagiiDisk

Test Model: M1

Environmental Conditions

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



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A.1 DTS Bandwidth

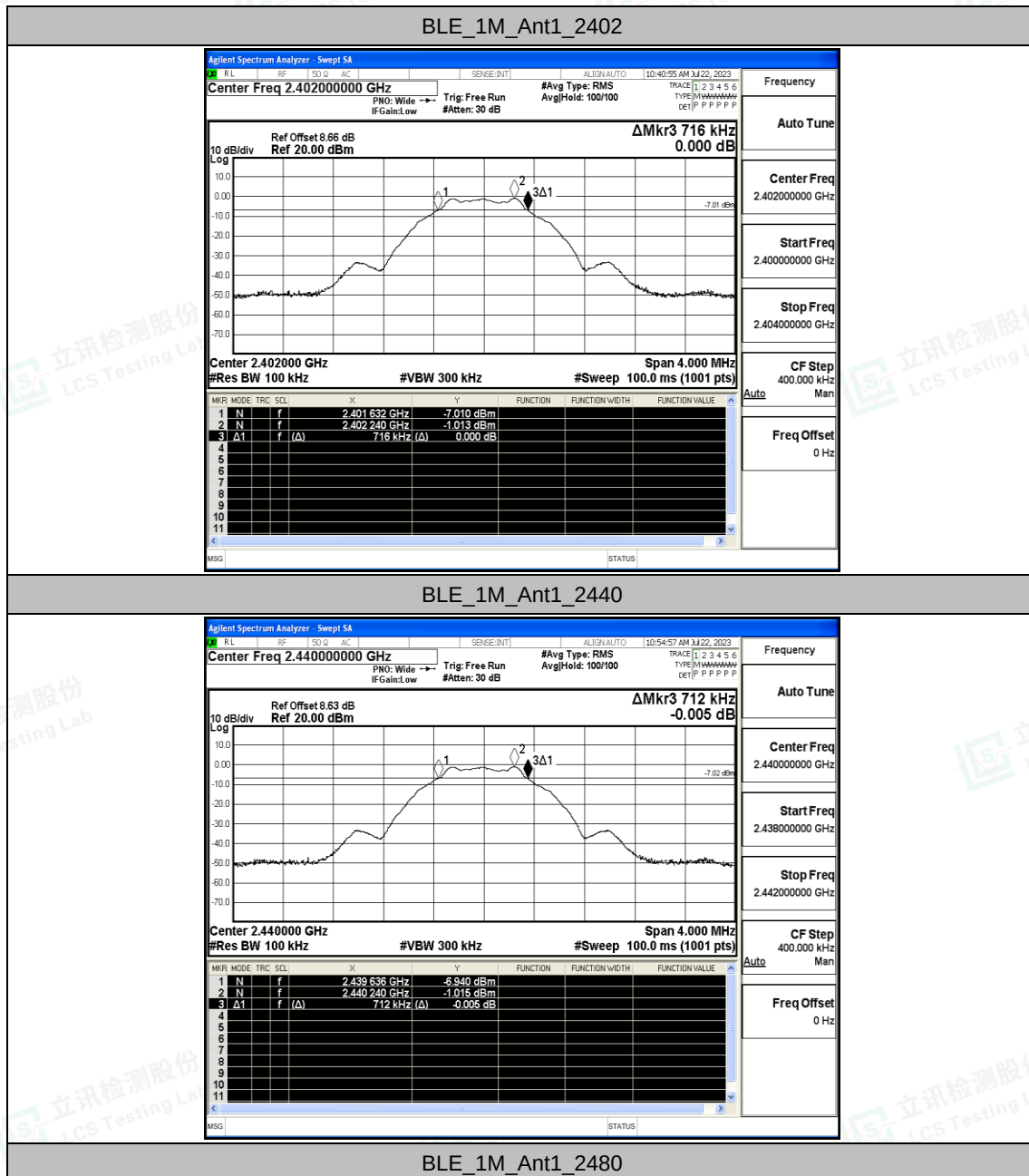
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.632	2402.348	0.5	PASS
		2440	0.712	2439.636	2440.348	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS





Test Graphs

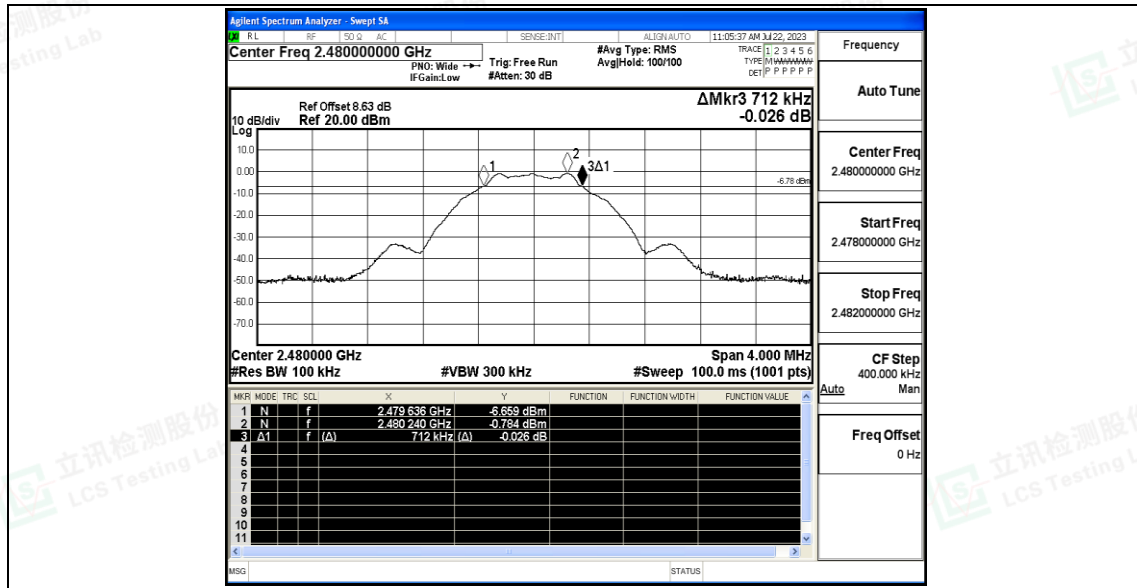


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.06	≤30	PASS
		2440	-0.06	≤30	PASS
		2480	0.05	≤30	PASS



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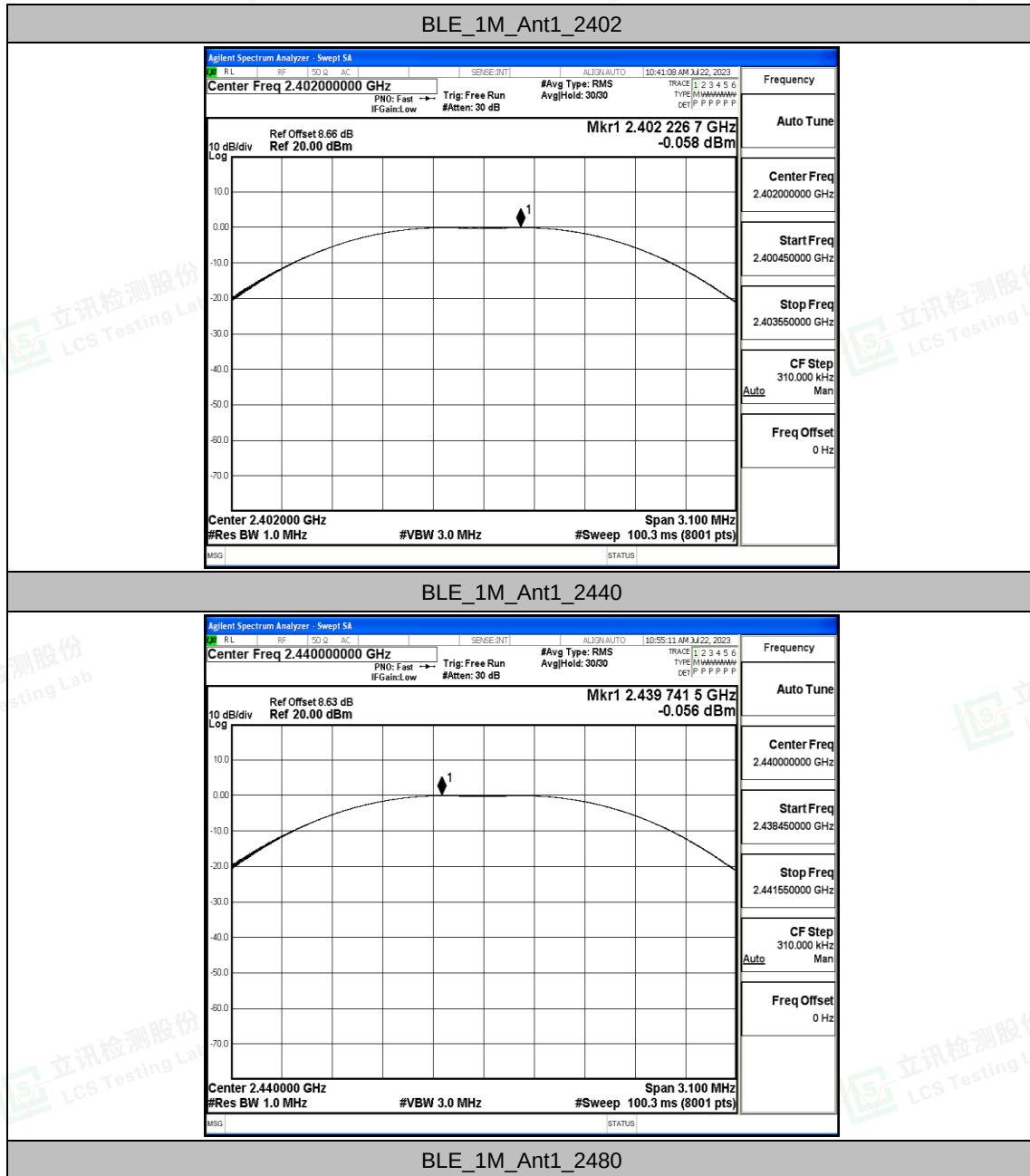
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Test Graphs

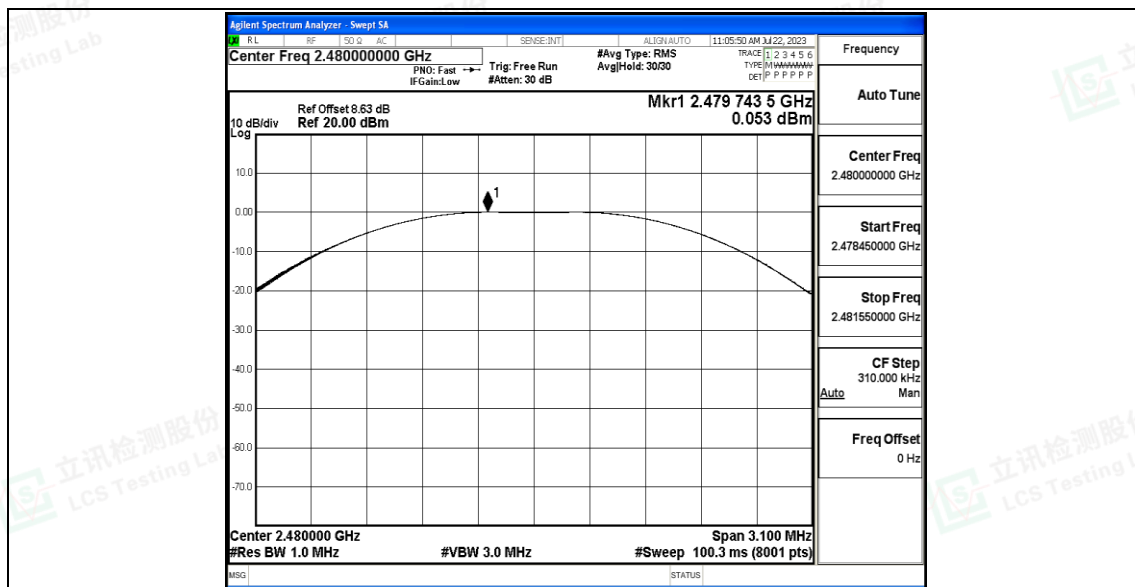


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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.34	≤8.00	PASS
		2440	-15.32	≤8.00	PASS
		2480	-15.23	≤8.00	PASS



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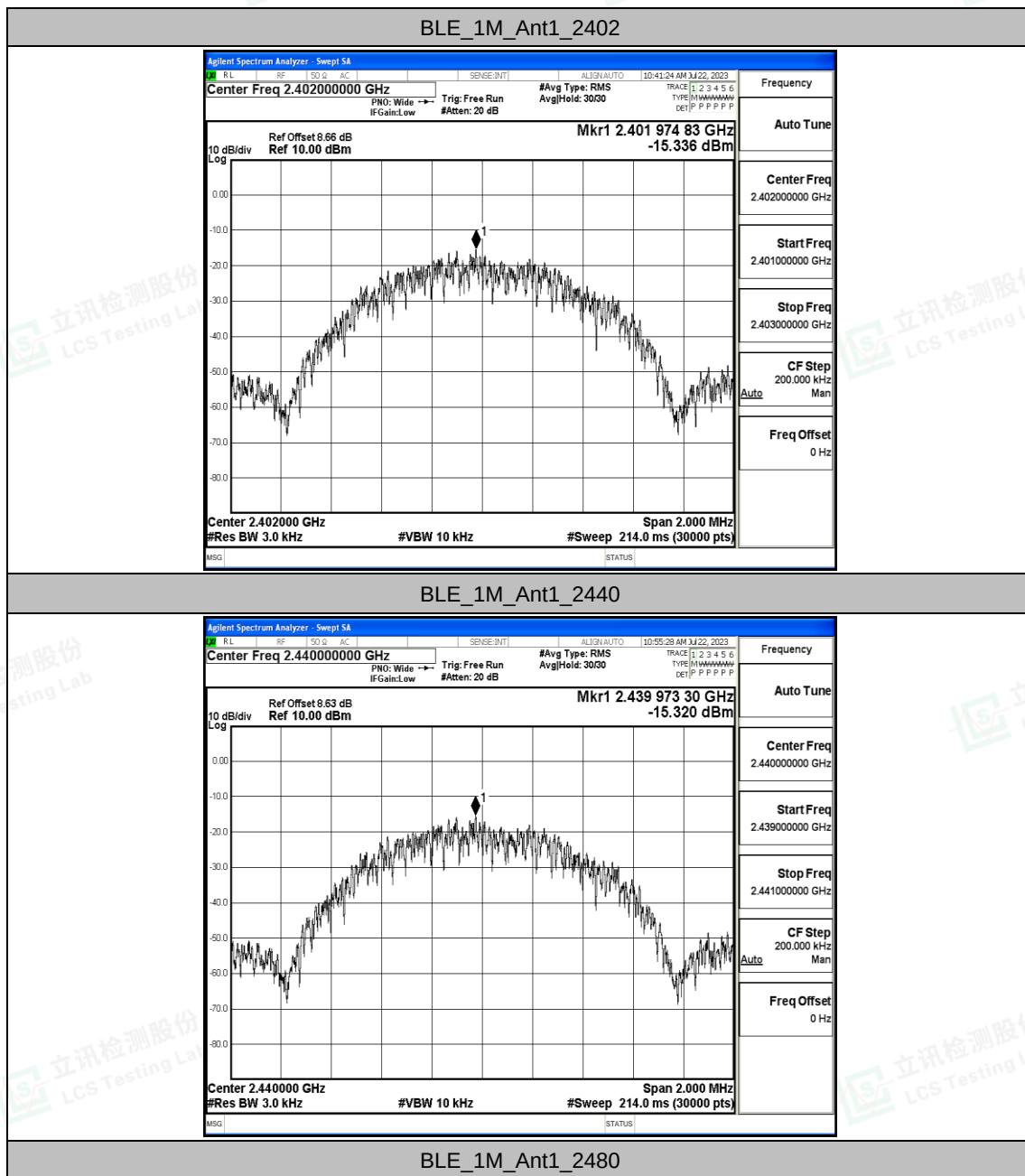
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Test Graphs

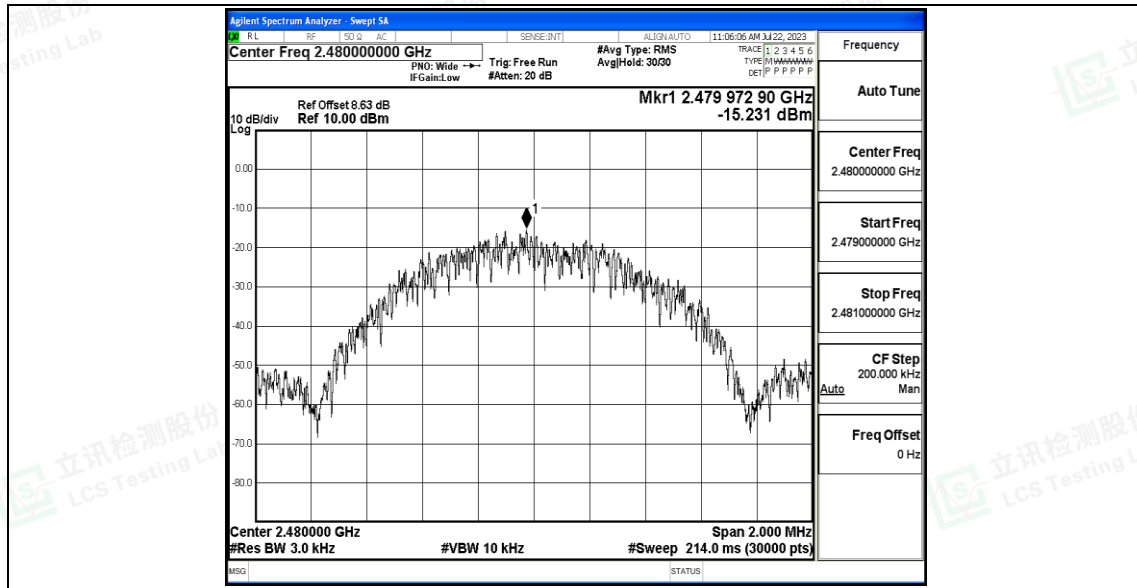


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.01	-59.45	≤ -21.01	PASS
		High	2480	-0.85	-57.43	≤ -20.85	PASS



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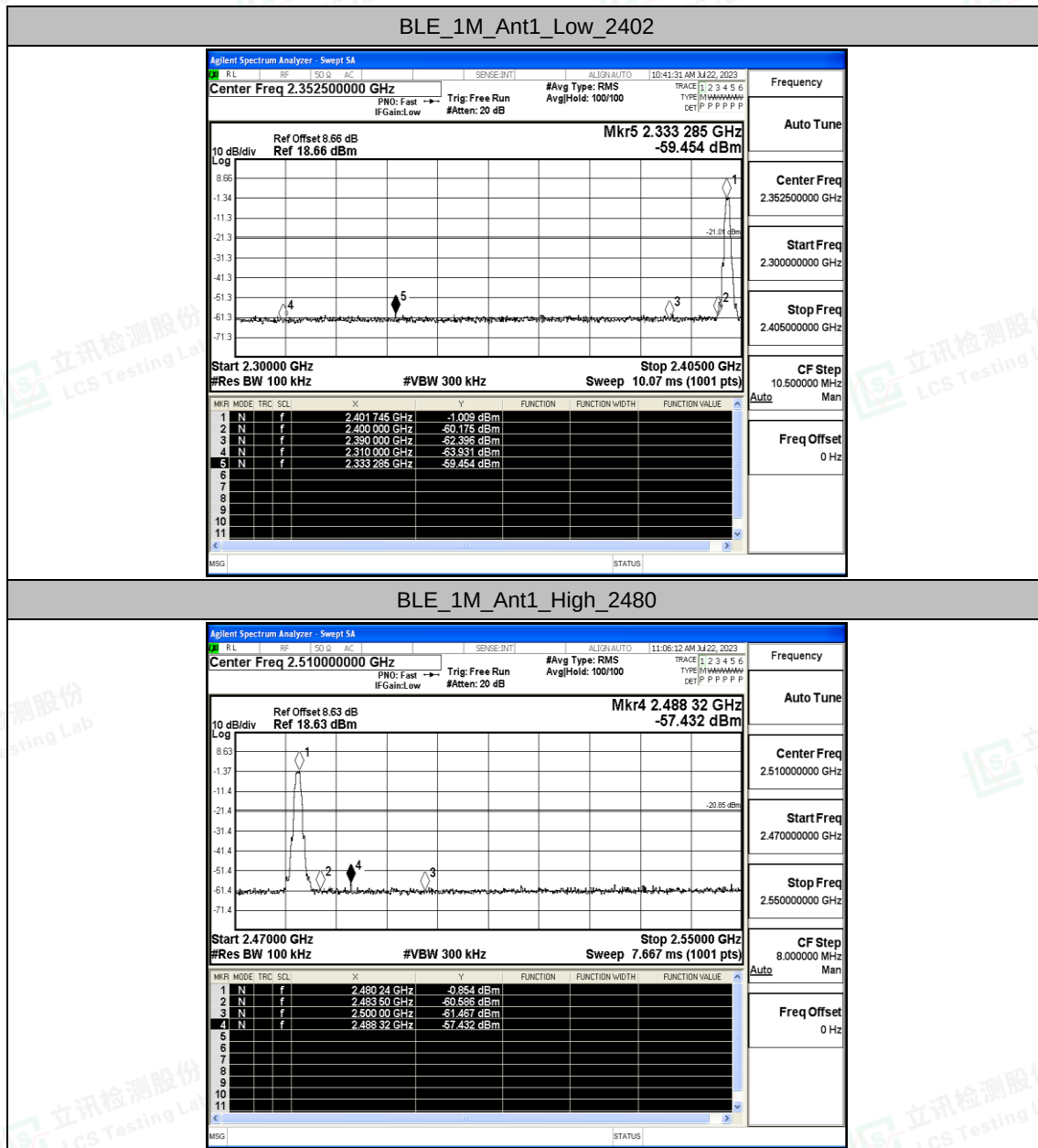
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Test Graphs



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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	-1.01	-1.01	---	PASS
			30~1000	-1.01	-61.16	≤-21.01	PASS
			1000~26500	-1.01	-46.09	≤-21.01	PASS
		2440	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-61.43	≤-21	PASS
			1000~26500	-1.00	-46.75	≤-21	PASS
		2480	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-61.06	≤-20.9	PASS
			1000~26500	-0.90	-46.97	≤-20.9	PASS



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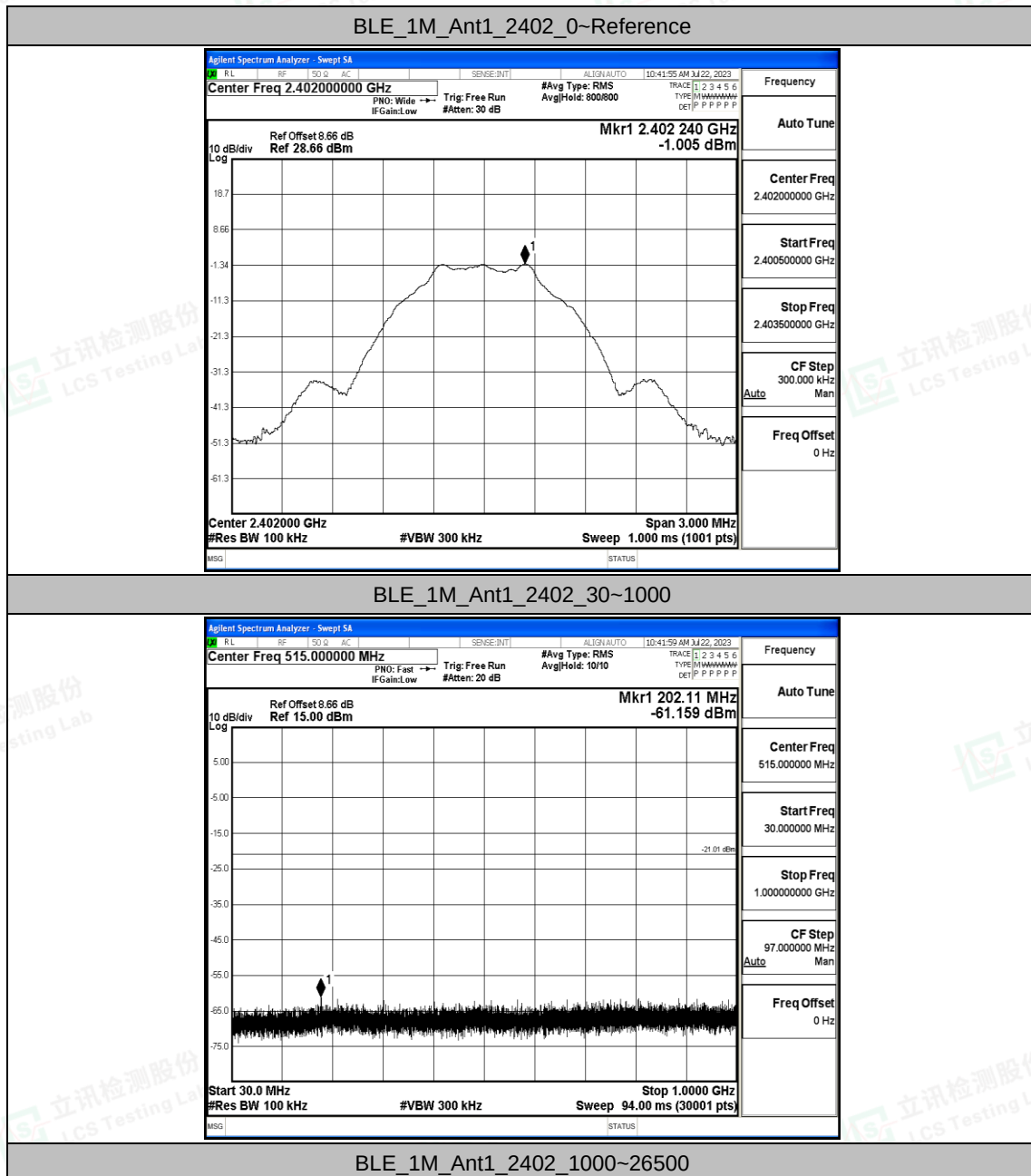
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Test Graphs

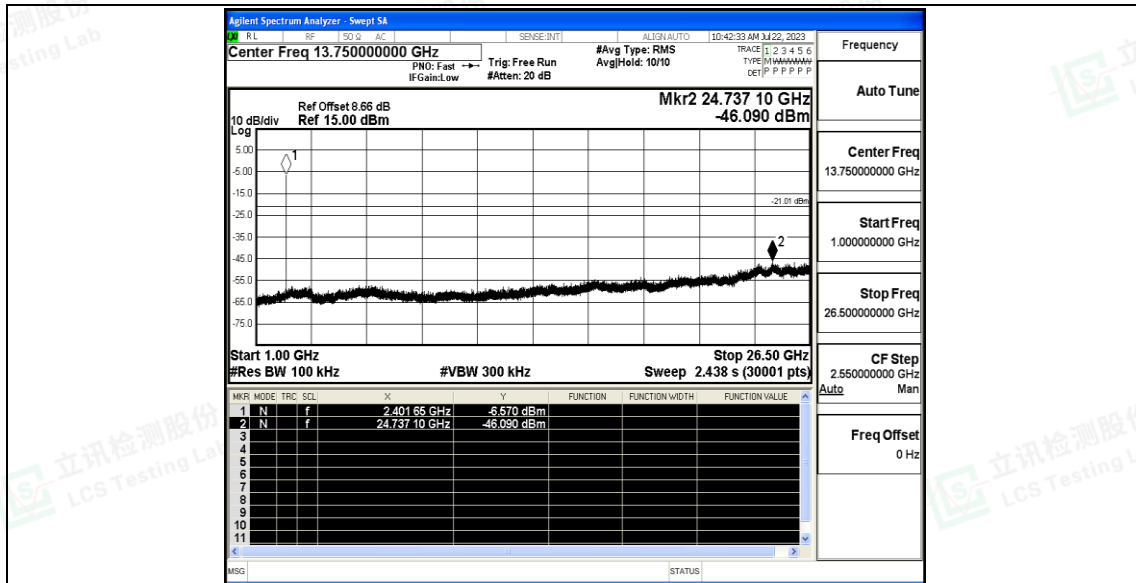


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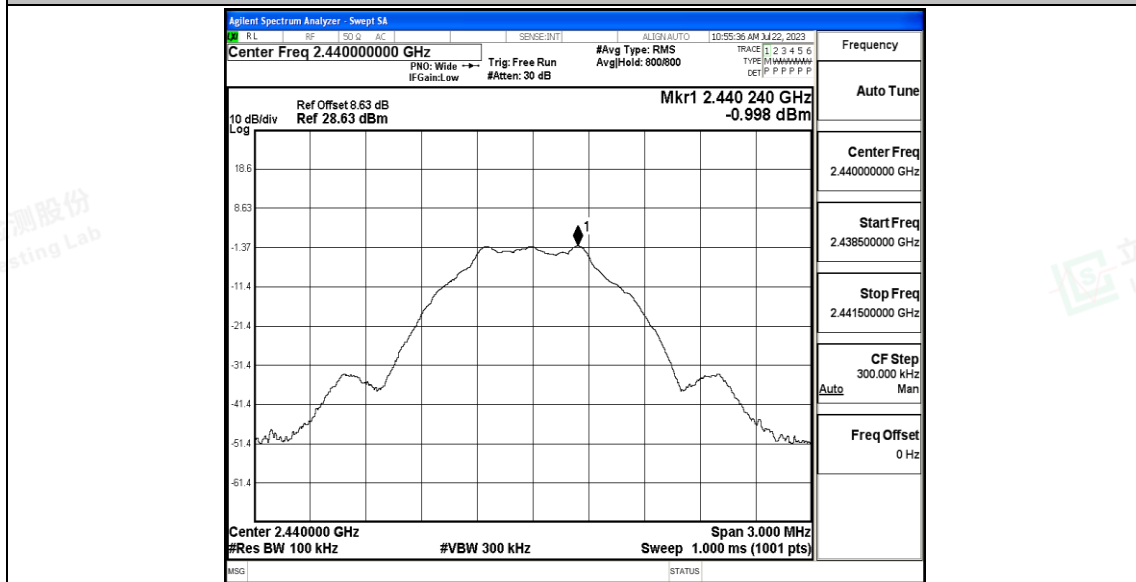
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

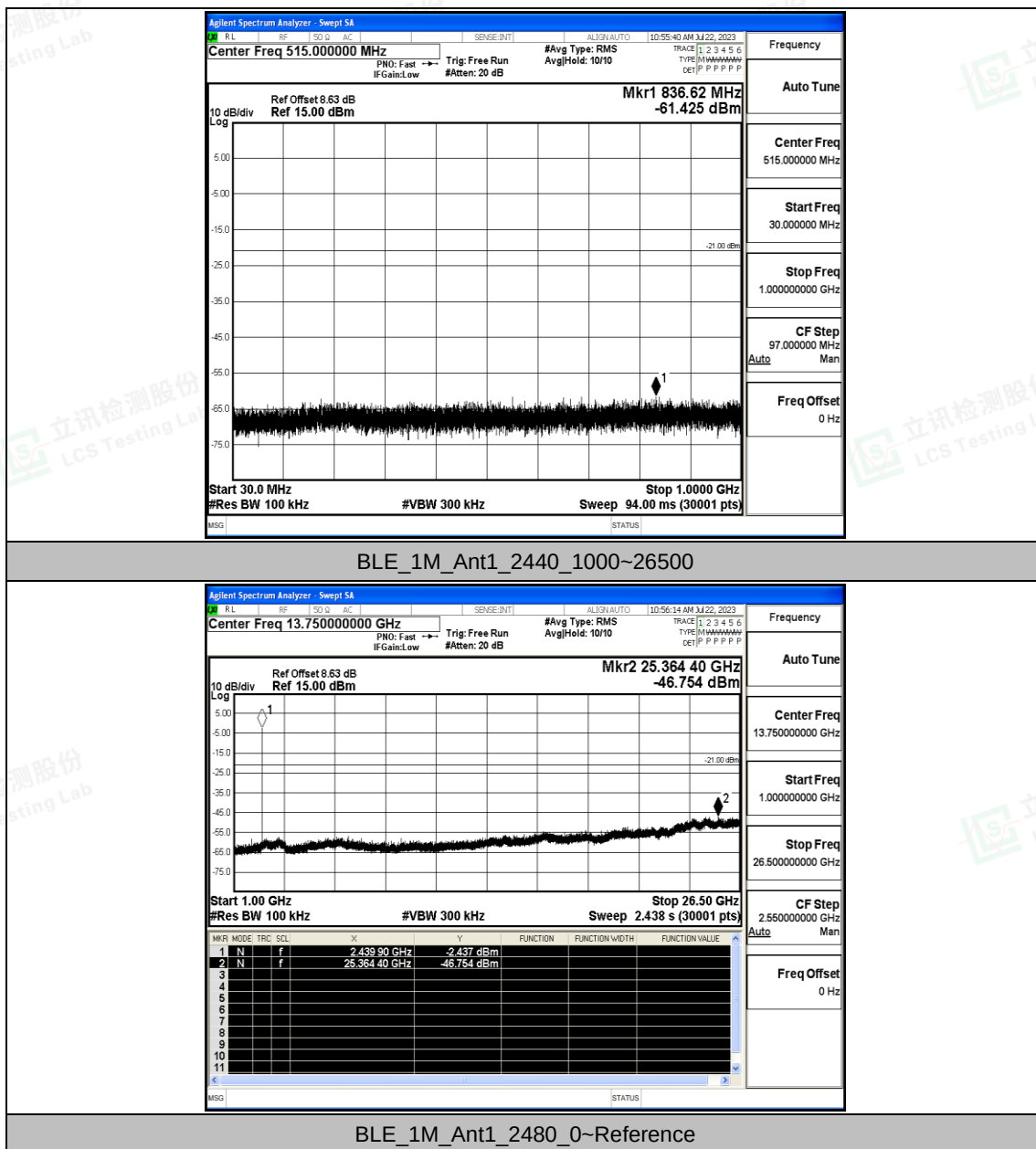


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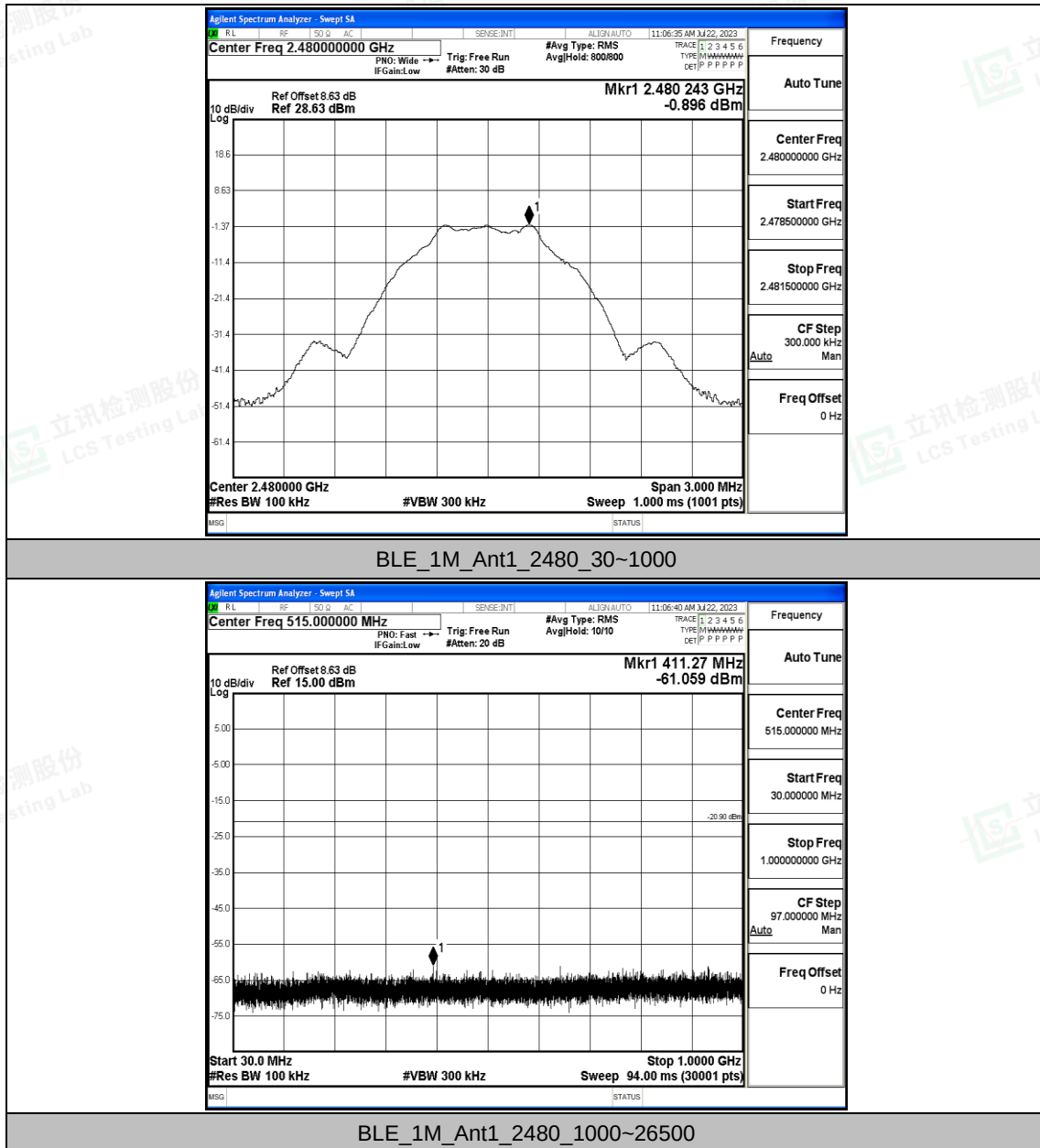


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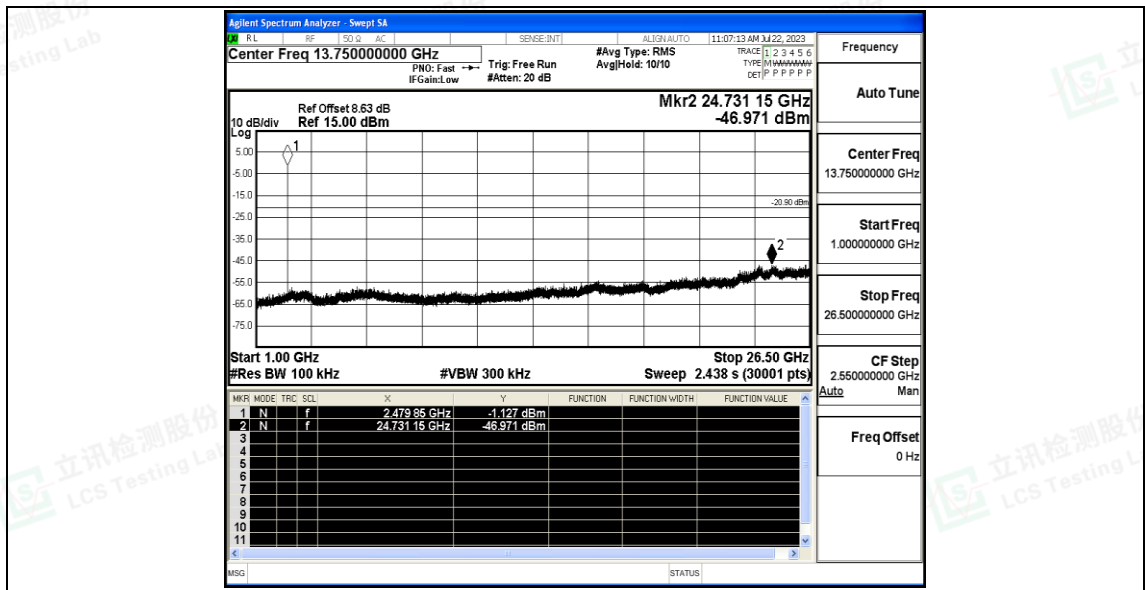


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A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	2.63	---	PASS
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	PASS



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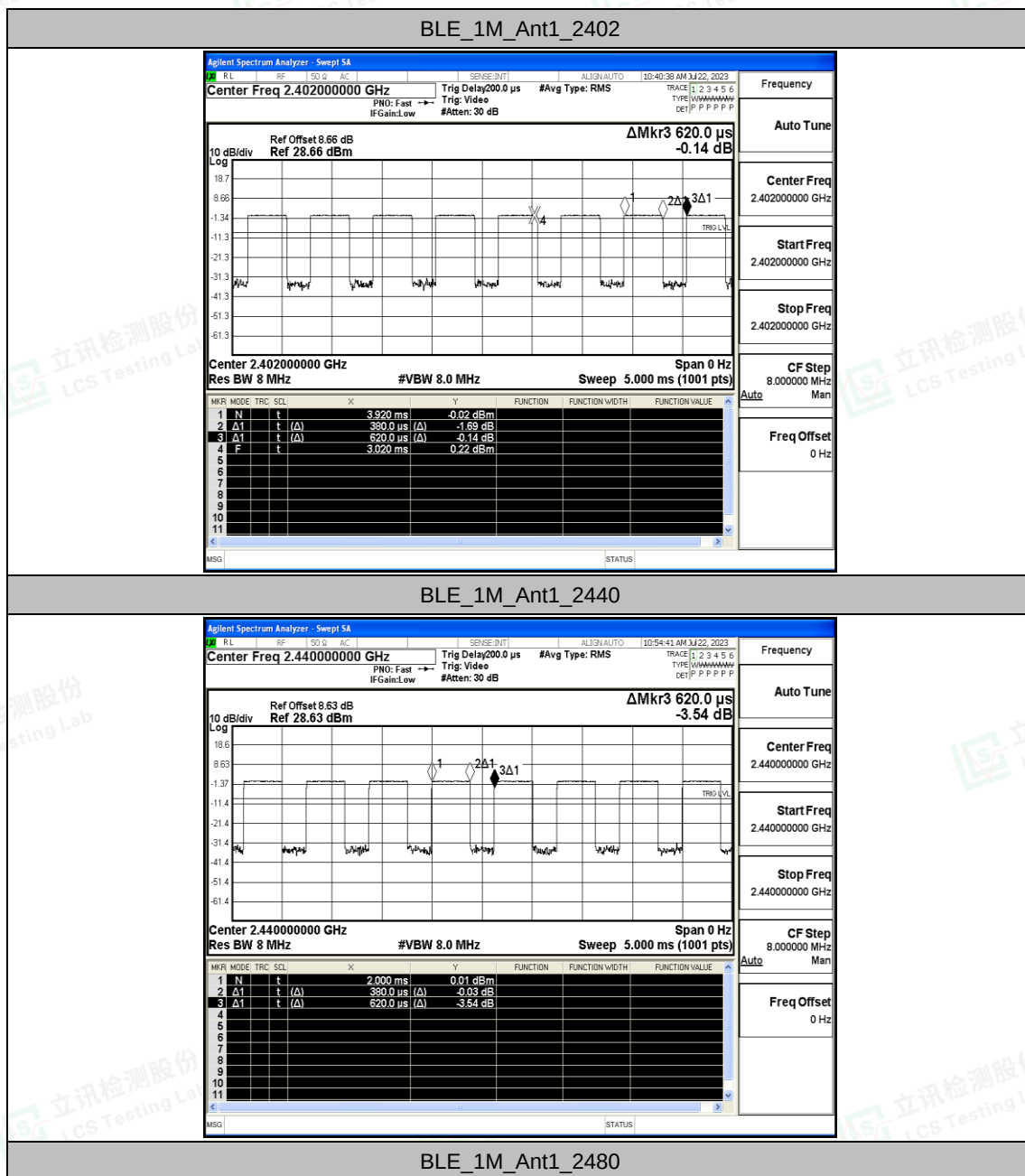
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Test Graphs

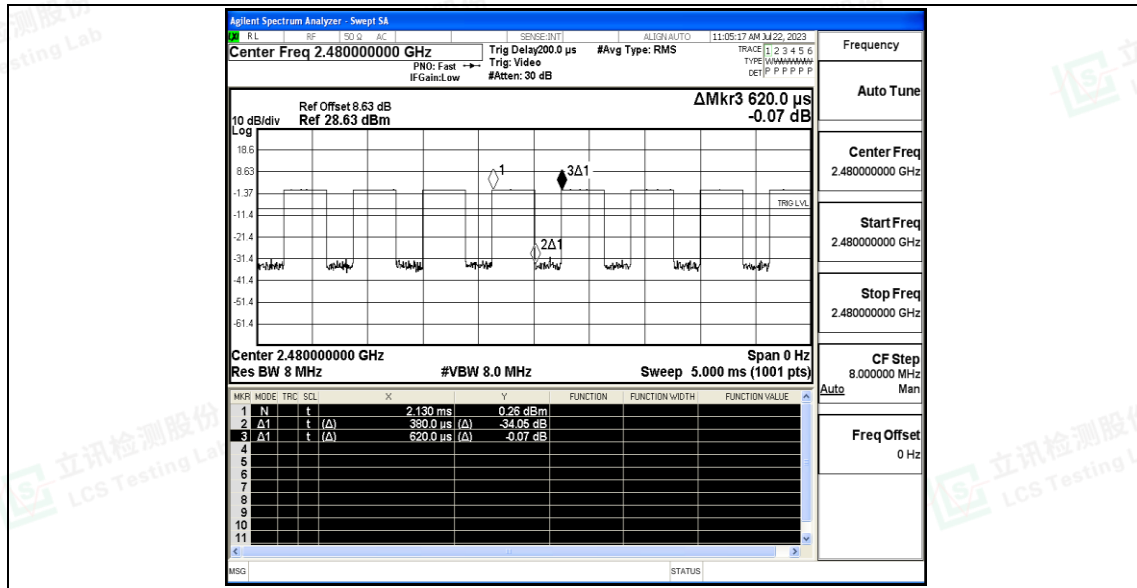


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A.7 Emissions in Restricted Bands

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	-57.57	≤-41.20	37.63	≤54	PASS
				AV	2383.580	-56.49	≤-41.20	38.71	≤54	PASS
				AV	2390.000	-57.37	≤-41.20	37.83	≤54	PASS
				Peak	2310.000	-51.72	≤-21.20	43.48	≤74	PASS
				Peak	2379.695	-47.77	≤-21.20	47.43	≤74	PASS
				Peak	2390.000	-50.82	≤-21.20	44.38	≤74	PASS
		High	2480	AV	2483.500	-53.77	≤-41.20	41.43	≤54	PASS
				AV	2483.520	-53.77	≤-41.20	41.43	≤54	PASS
				AV	2500.000	-56.75	≤-41.20	38.45	≤54	PASS
				Peak	2483.500	-50.58	≤-21.20	44.62	≤74	PASS
				Peak	2485.040	-47.81	≤-21.20	47.39	≤74	PASS
				Peak	2500.000	-50.08	≤-21.20	45.12	≤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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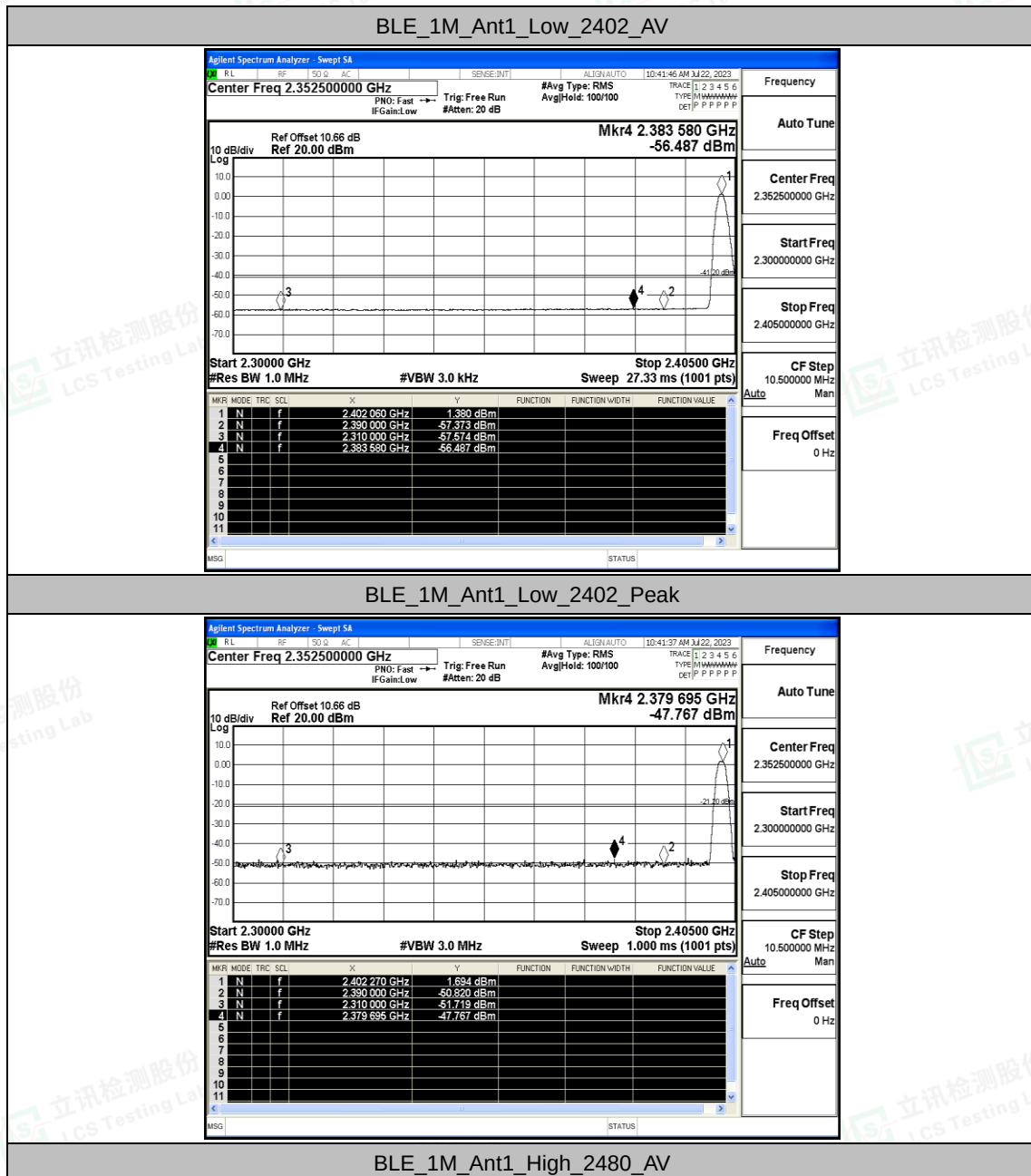
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Test Graphs

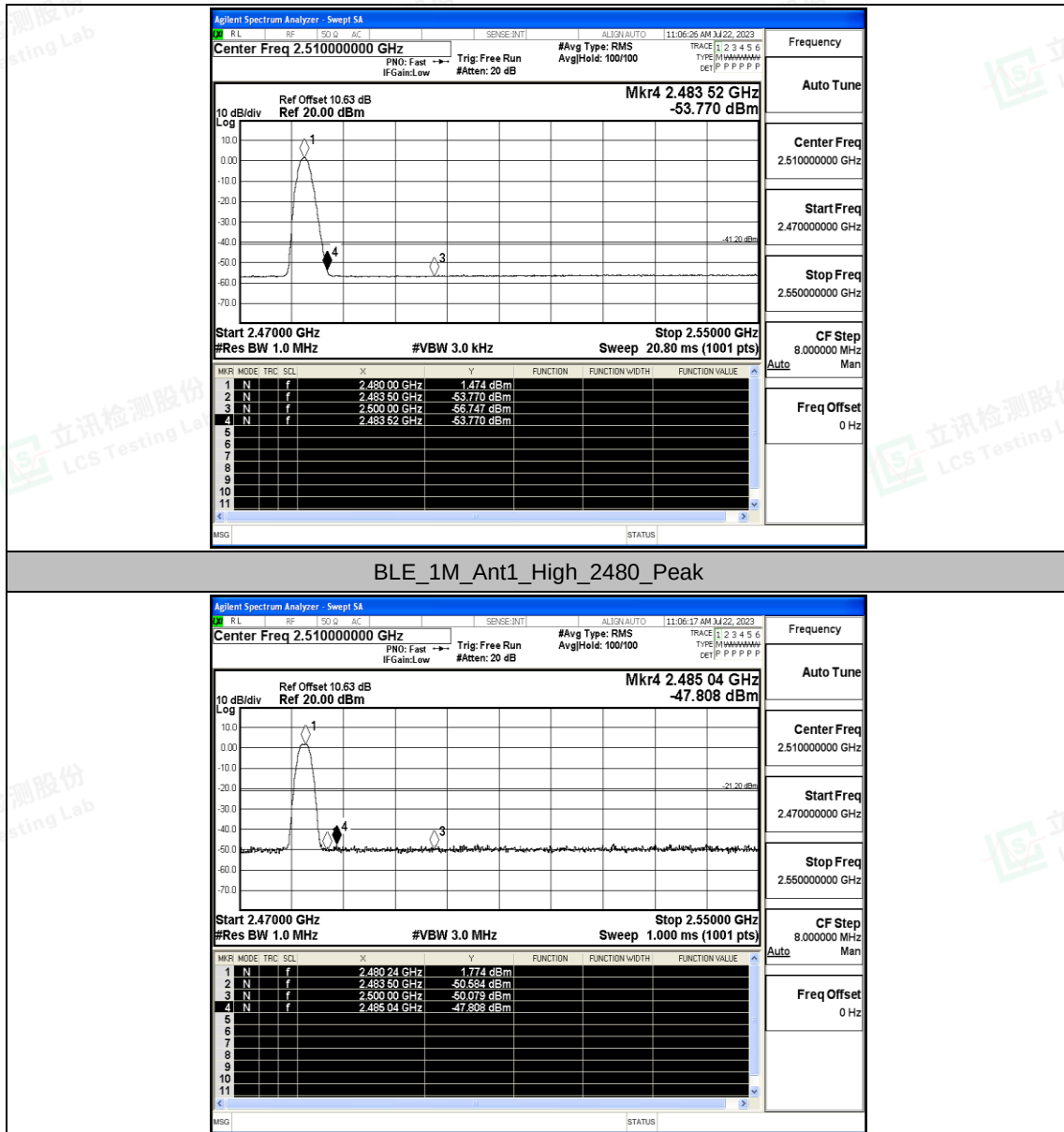


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