



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: SolarCam P1 Lite

Test Model: C8L

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.708	2439.636	2440.344	0.5	PASS
		2480	0.716	2479.632	2480.348	0.5	PASS



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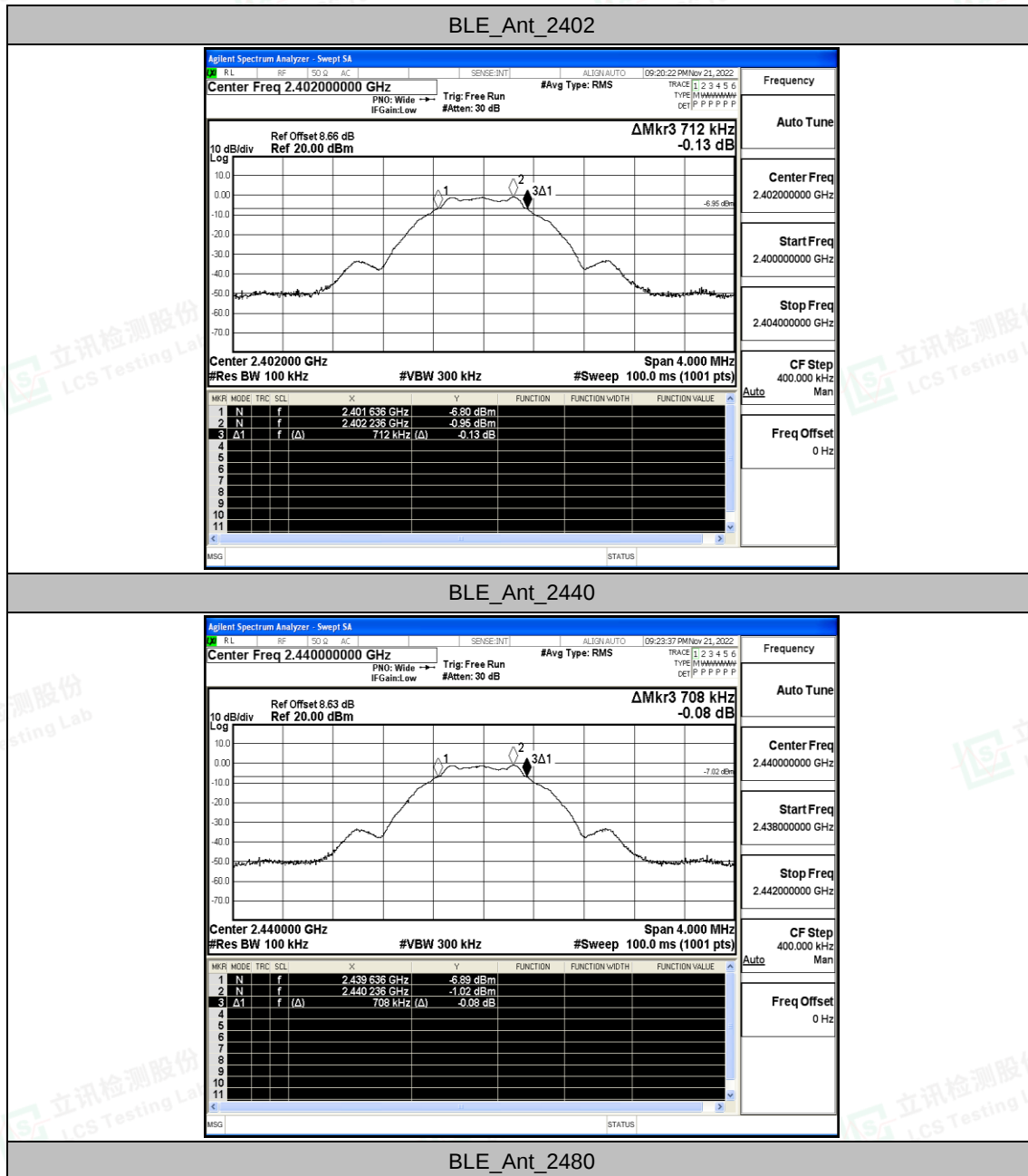
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Test Graphs

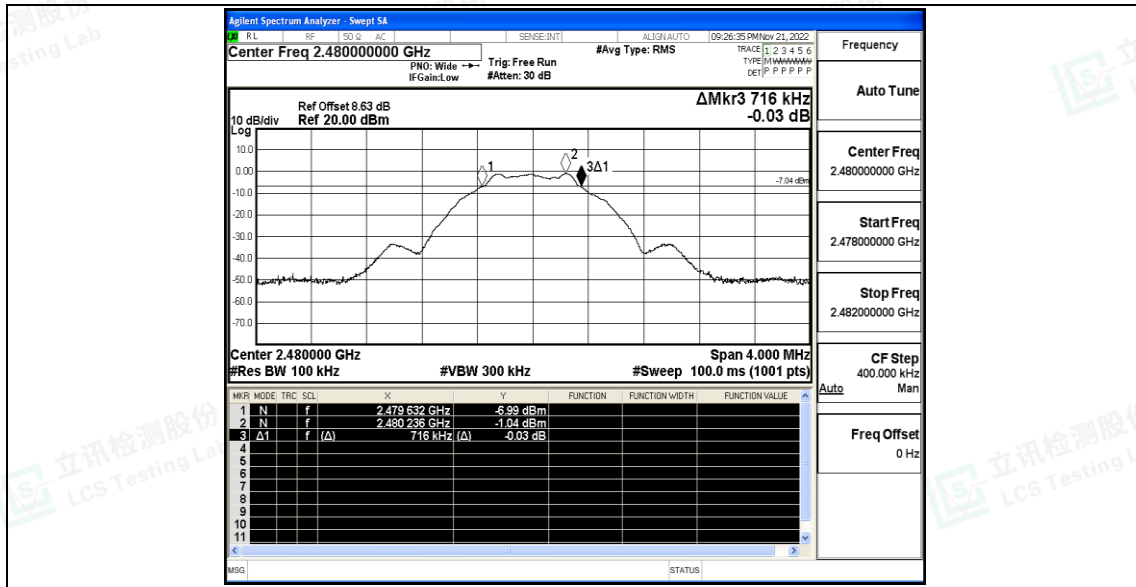


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A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	1.0590	2401.4747	2402.5337	---	---
		2440	1.0588	2439.4742	2440.5330	---	---
		2480	1.0619	2479.4725	2480.5344	---	---



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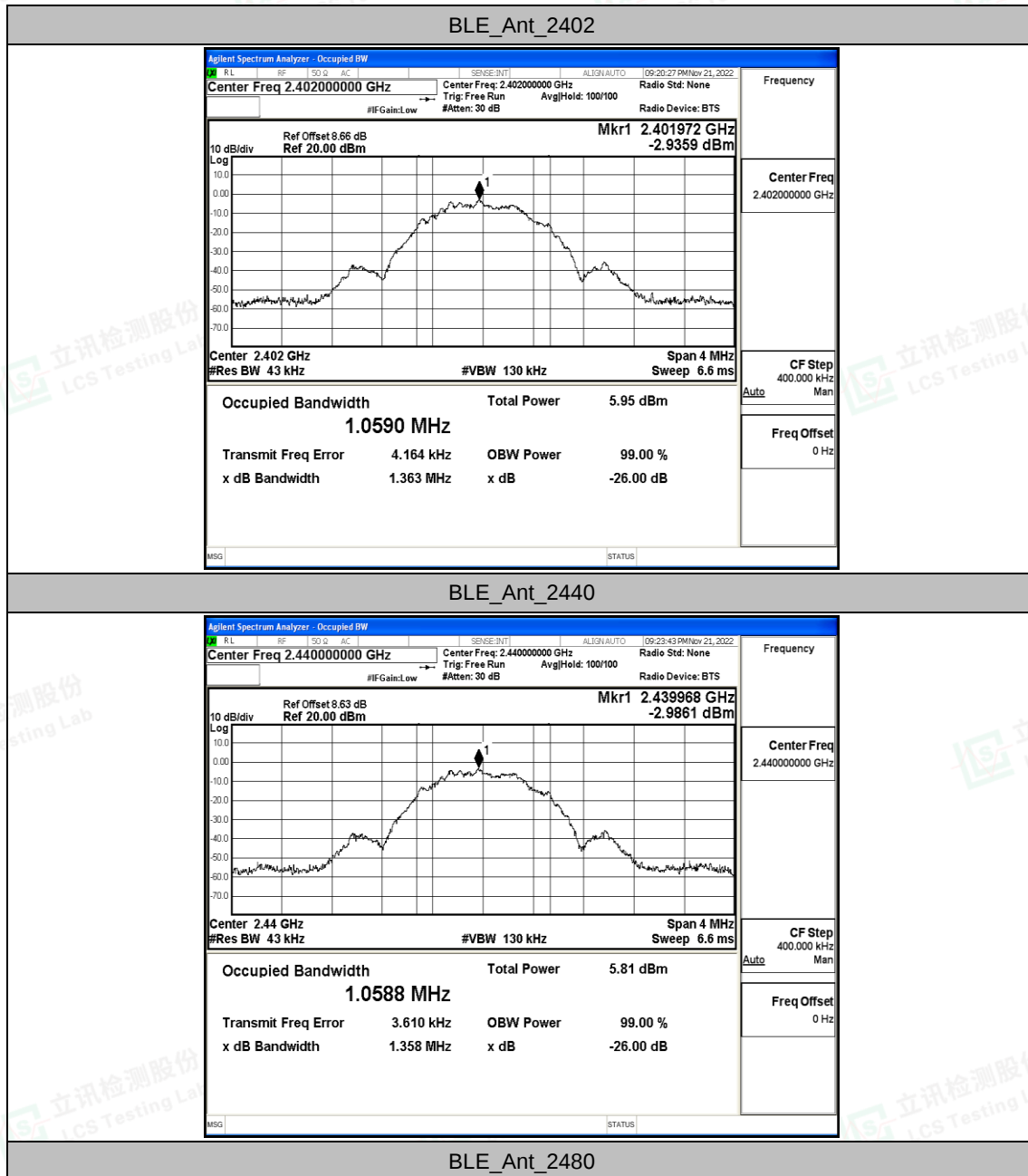
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Test Graphs

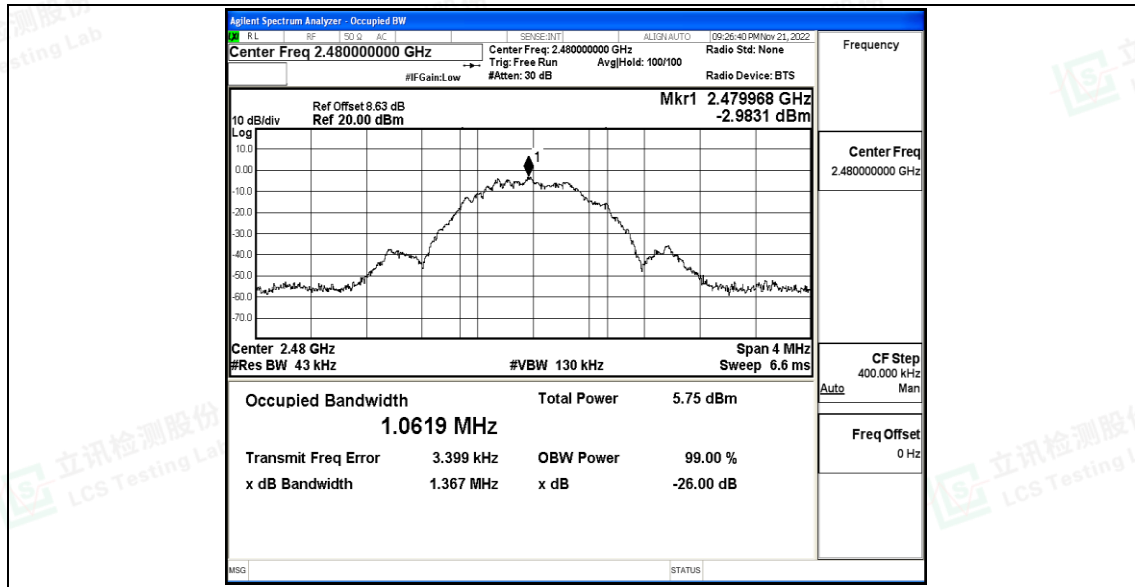


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A.3 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	0.01	≤30	PASS
		2440	-0.07	≤30	PASS
		2480	-0.07	≤30	PASS



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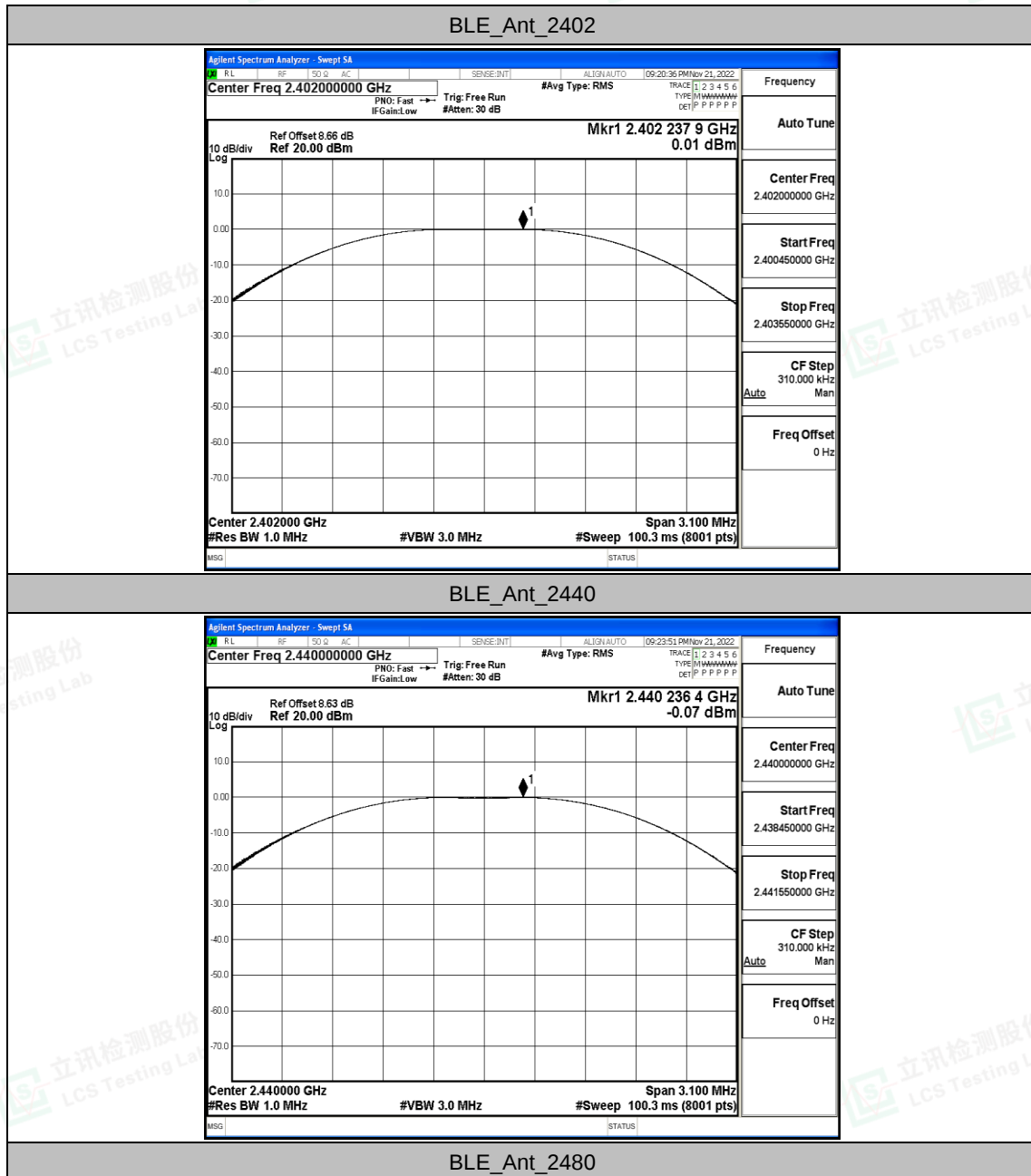
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Test Graphs

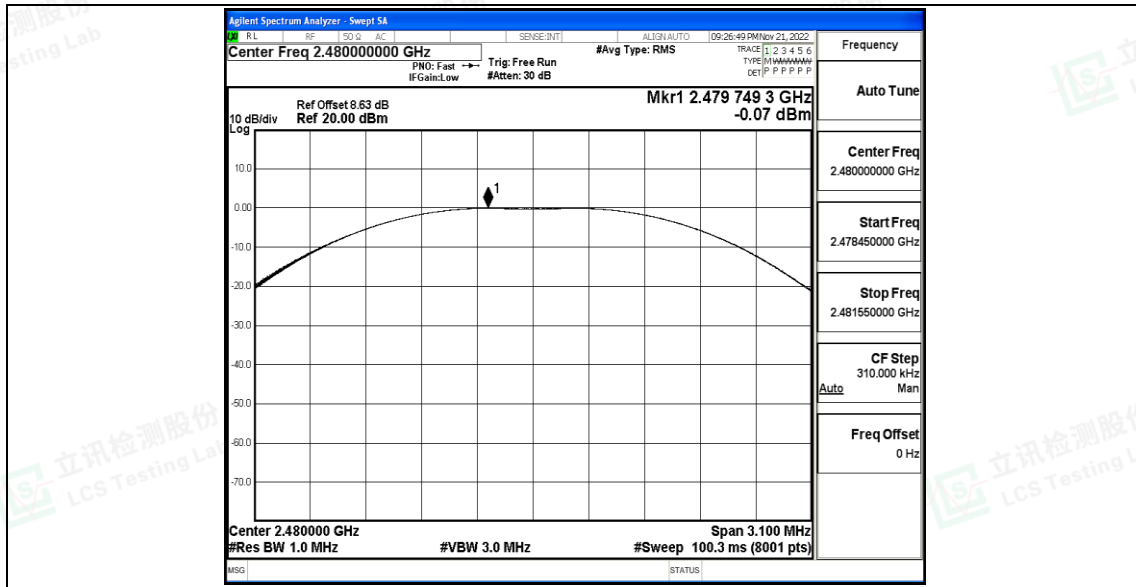


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A.4 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-15.12	≤8.00	PASS
		2440	-15.12	≤8.00	PASS
		2480	-15.20	≤8.00	PASS



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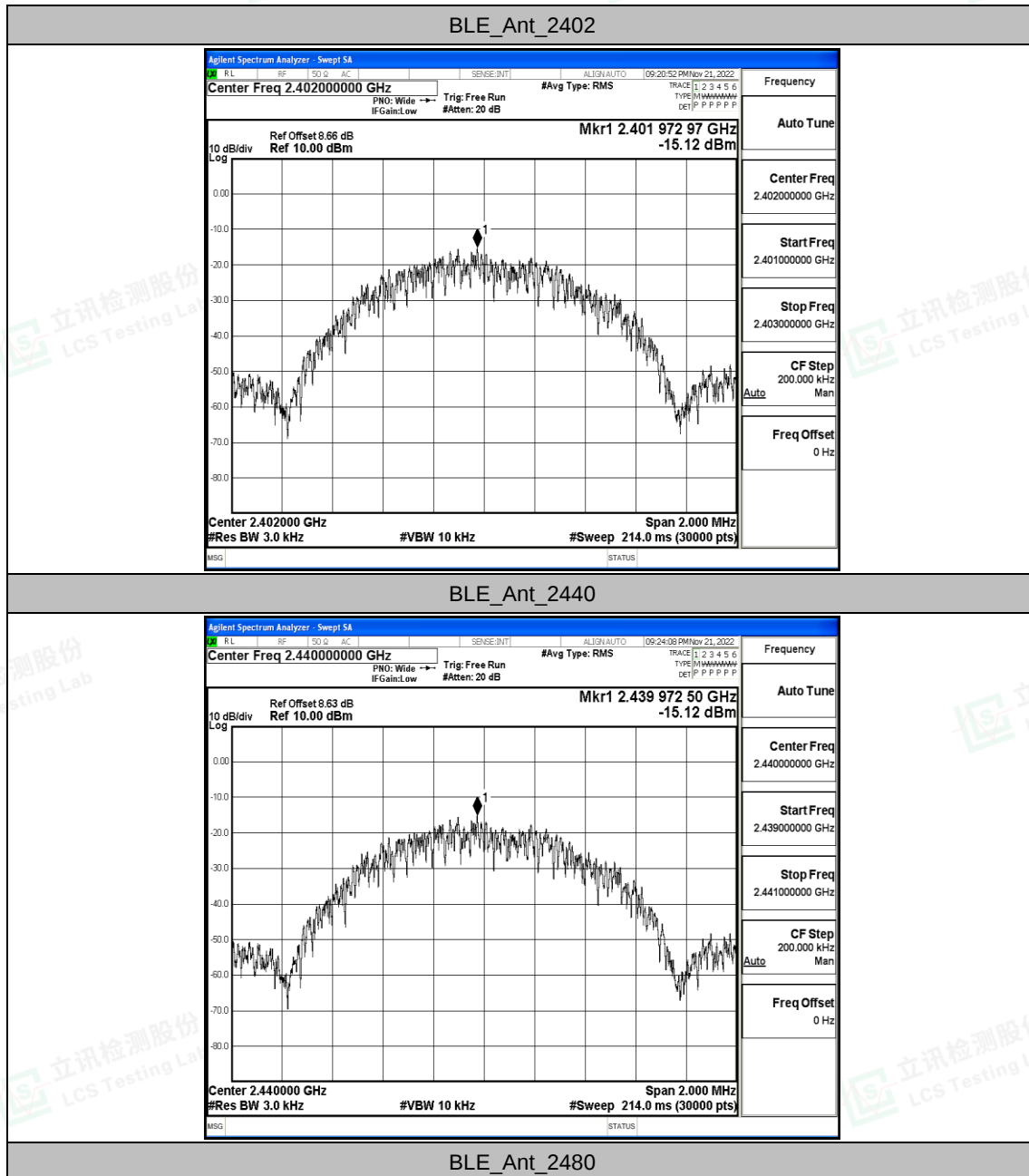
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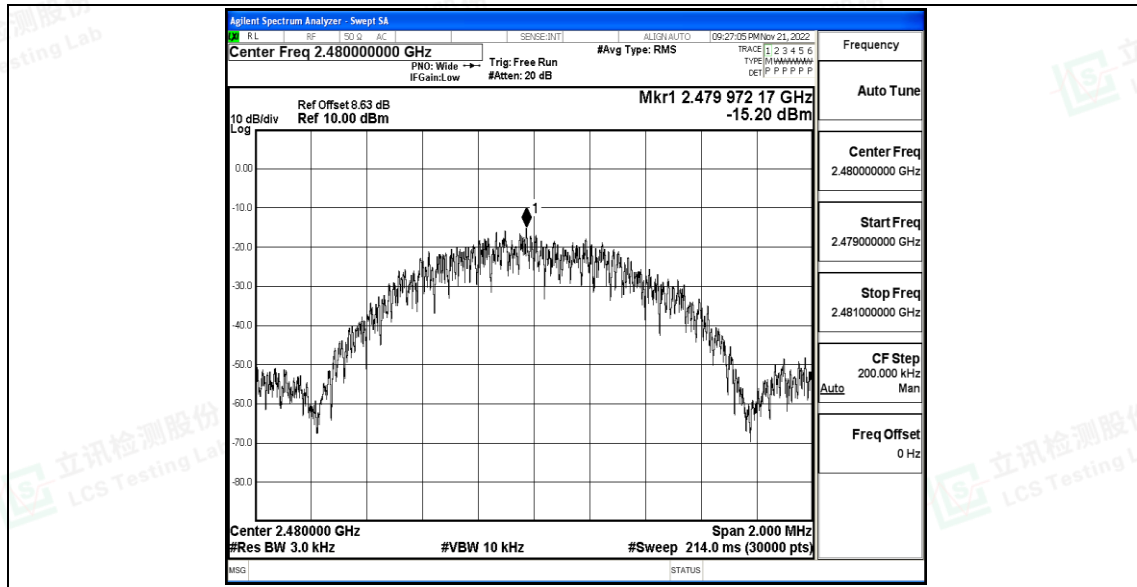


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A.5 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-0.69	-58.74	≤ -20.69	PASS
		High	2480	-0.94	-58.69	≤ -20.94	PASS



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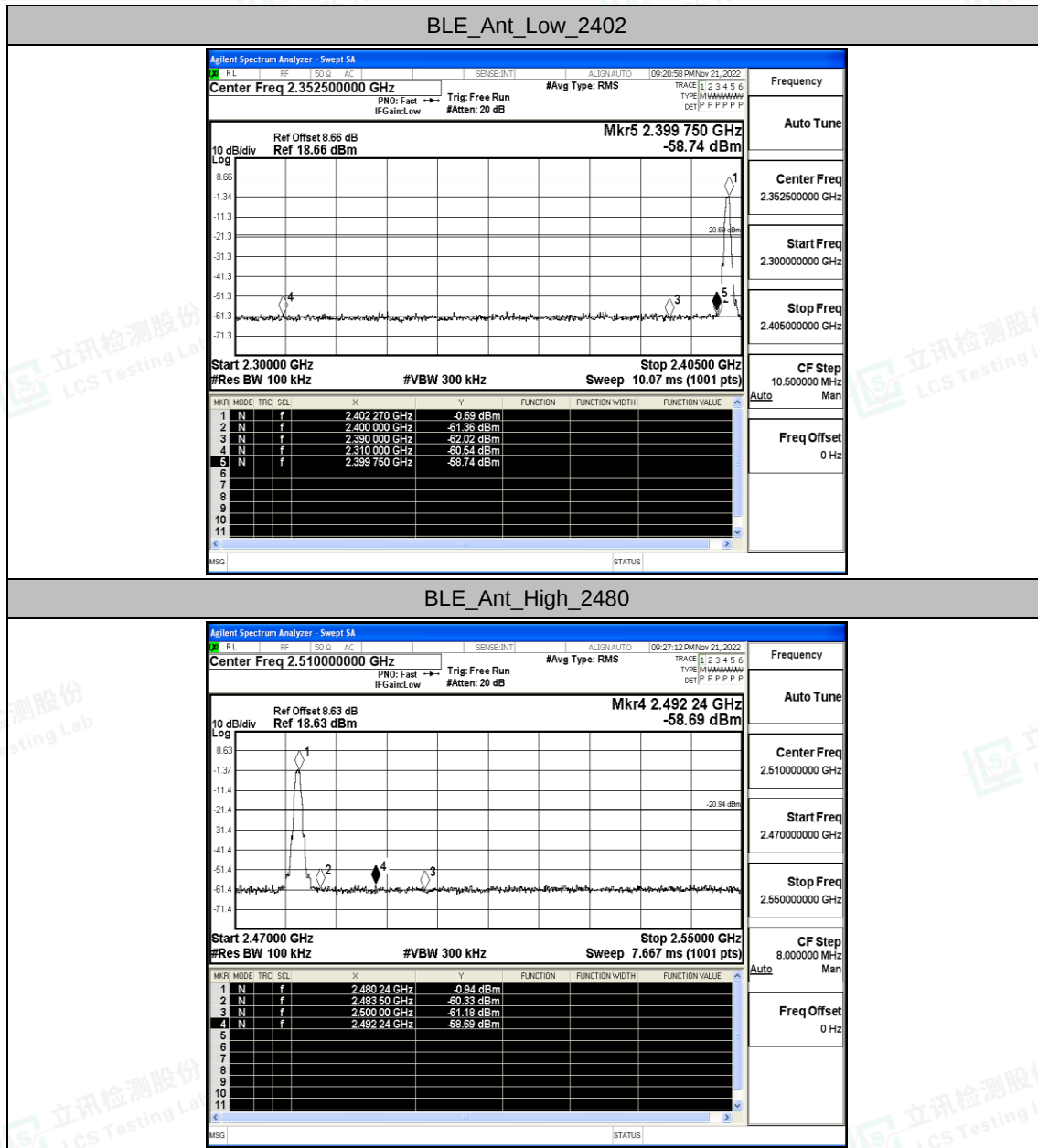
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A.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-54.95	≤-21.02	PASS
			1000~26500	-1.02	-45.97	≤-21.02	PASS
		2440	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-60.19	≤-22.03	PASS
			1000~26500	-2.03	-46.39	≤-22.03	PASS
		2480	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-60.5	≤-21.25	PASS
			1000~26500	-1.25	-45.77	≤-21.25	PASS



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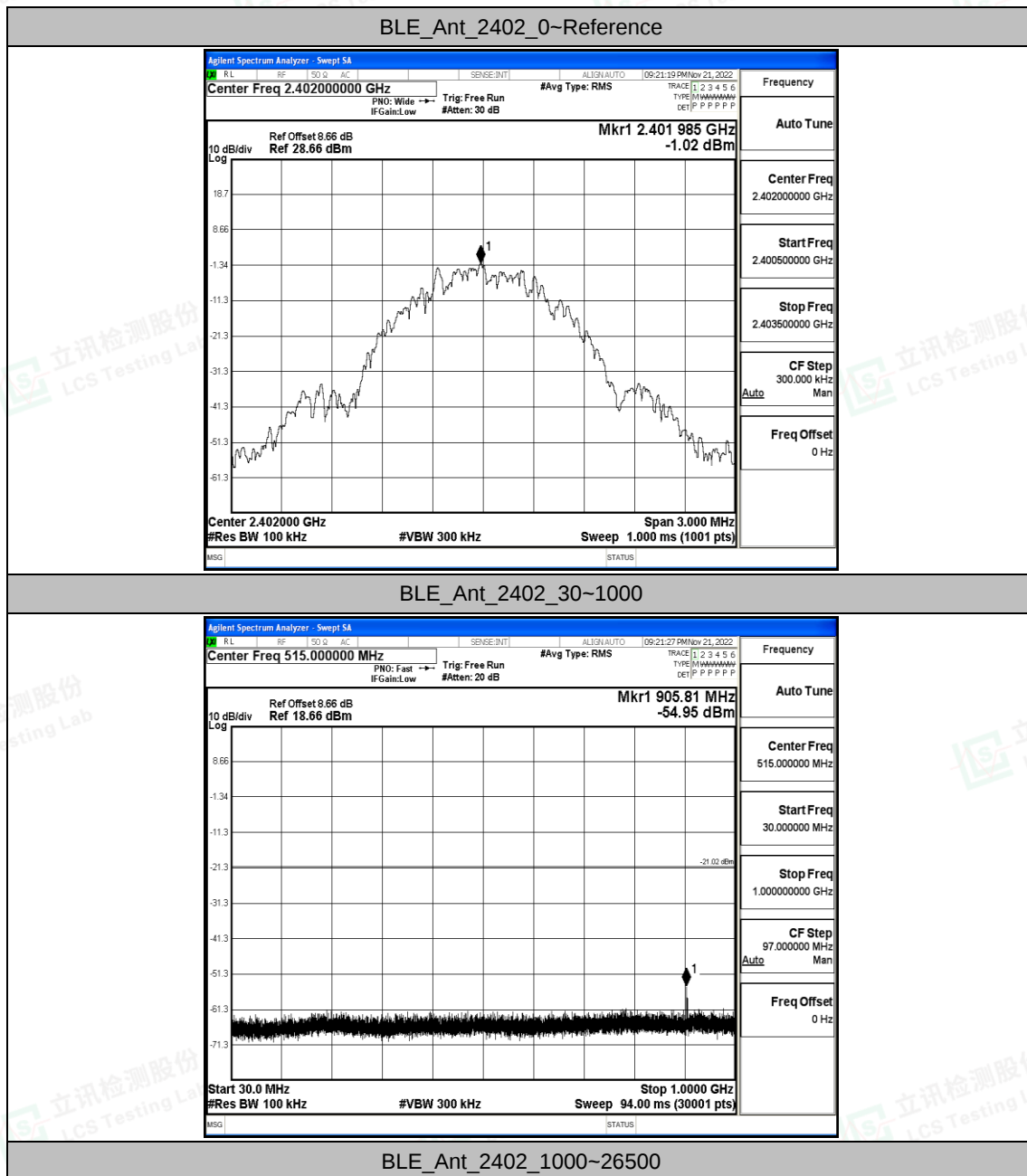
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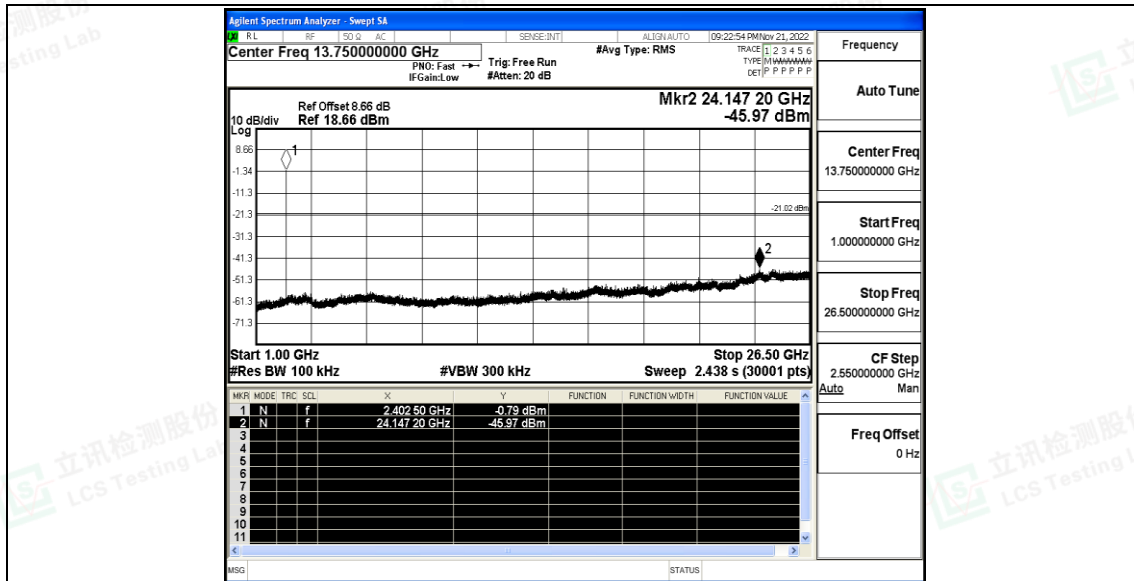


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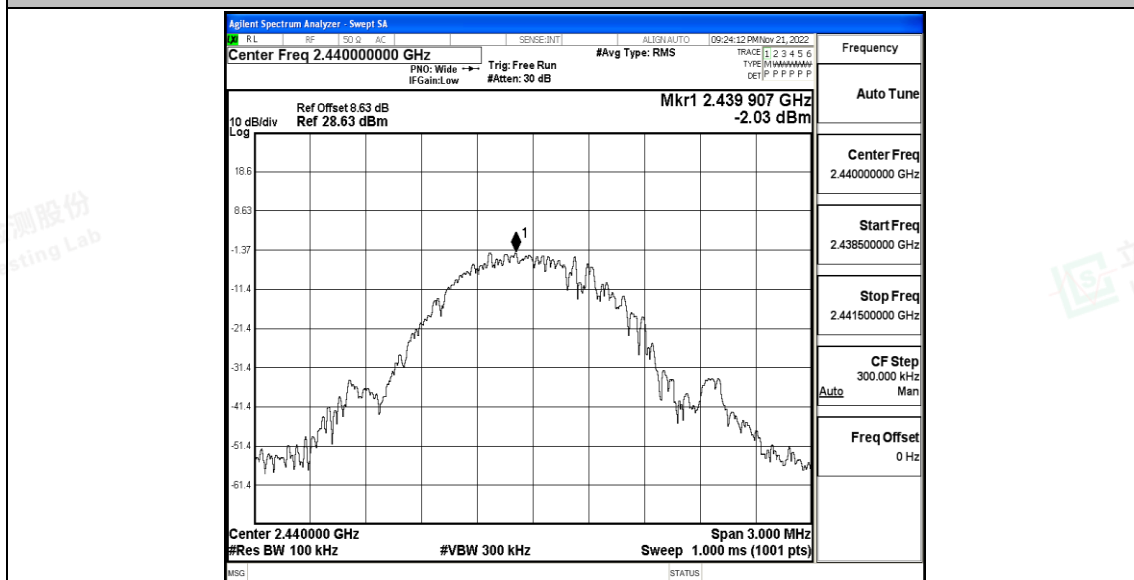
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BLE_Ant_2440_0~Reference



BLE_Ant_2440_30~1000

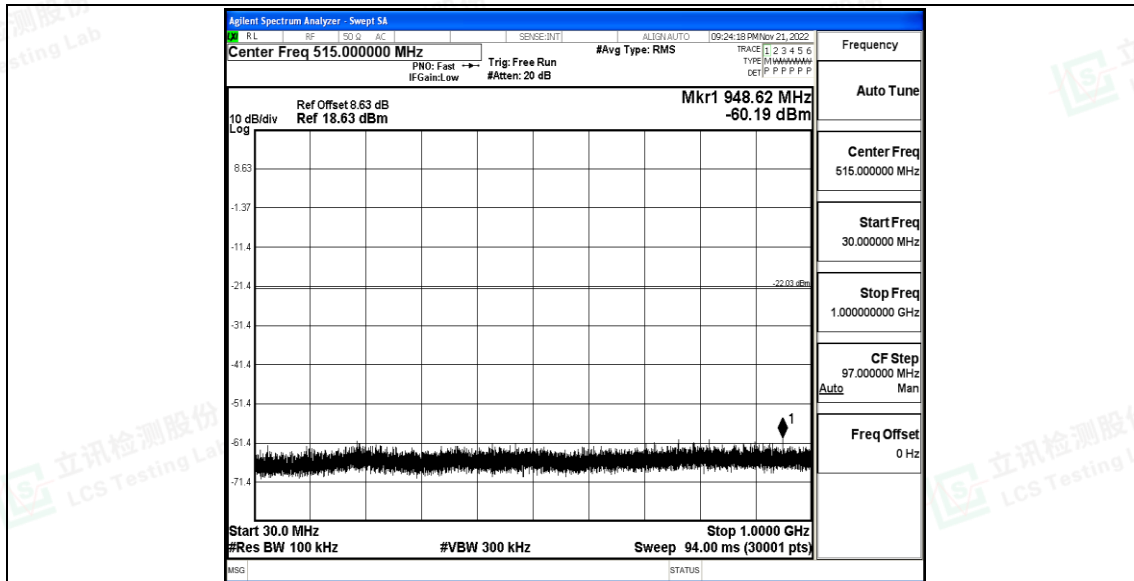


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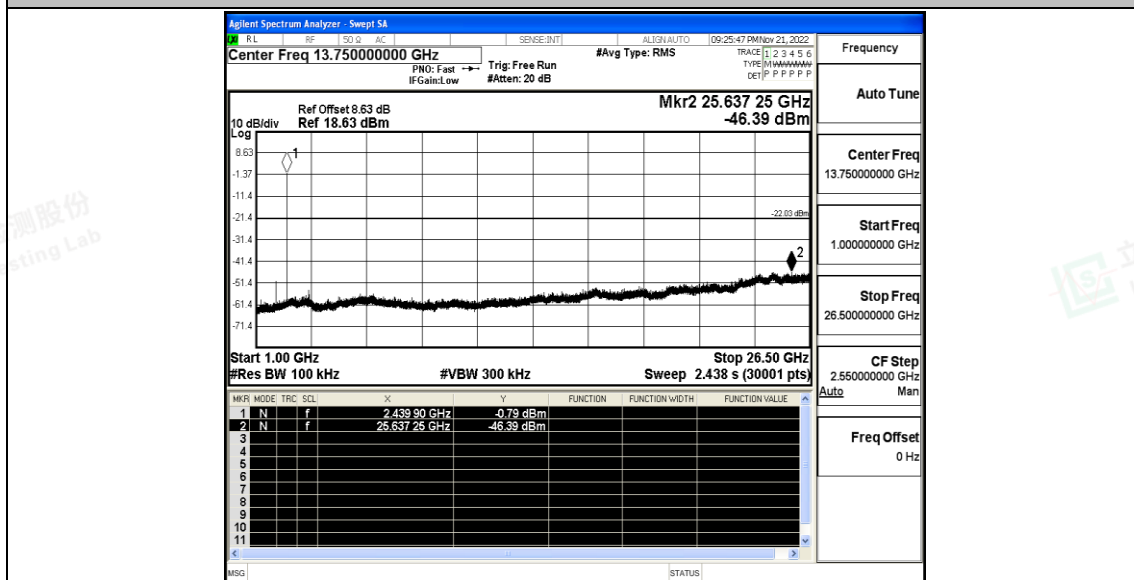
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BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference

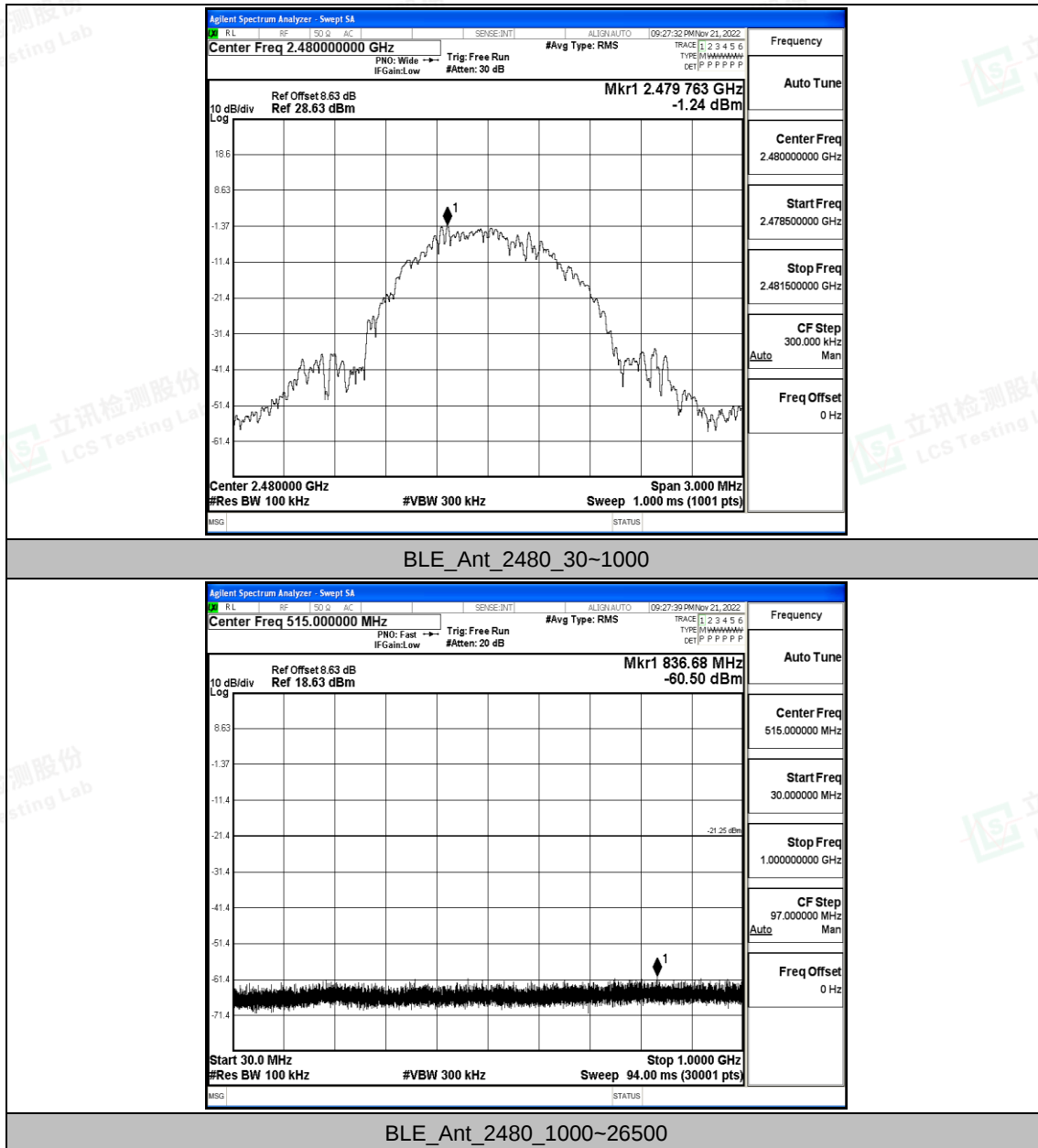


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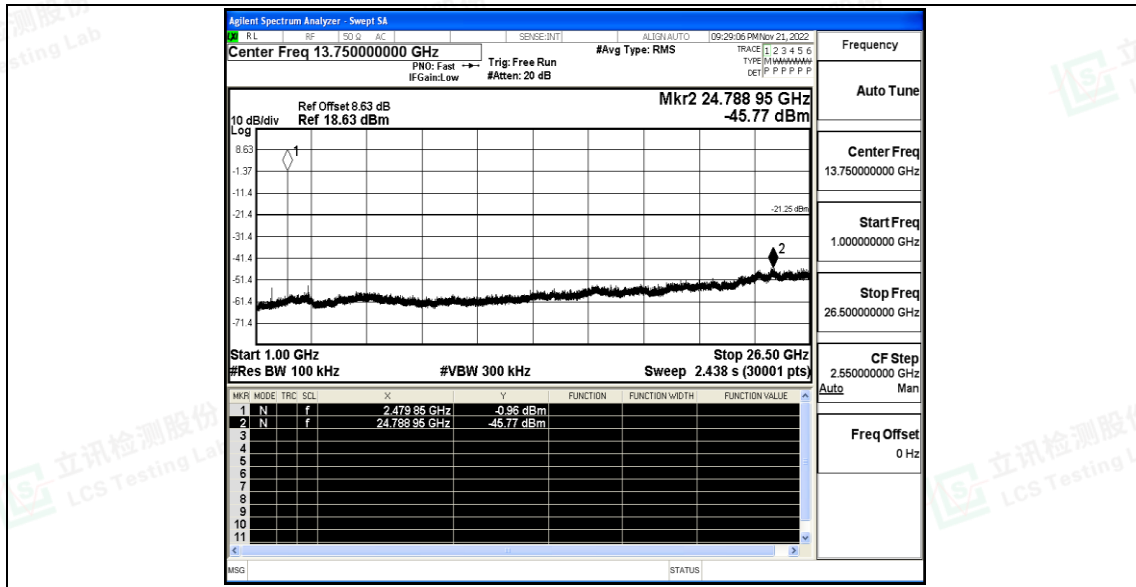


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A.7 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---



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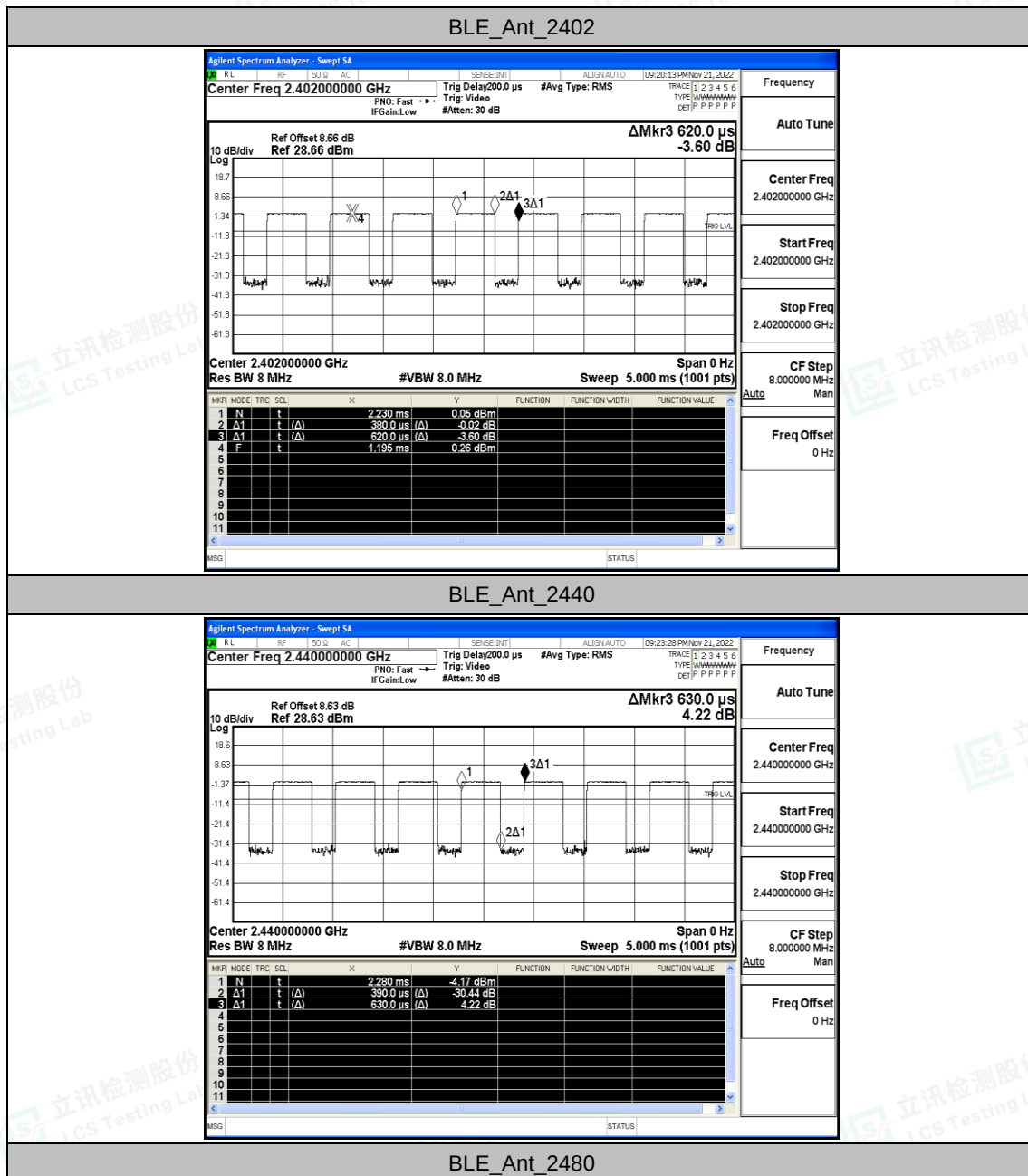
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Test Graphs

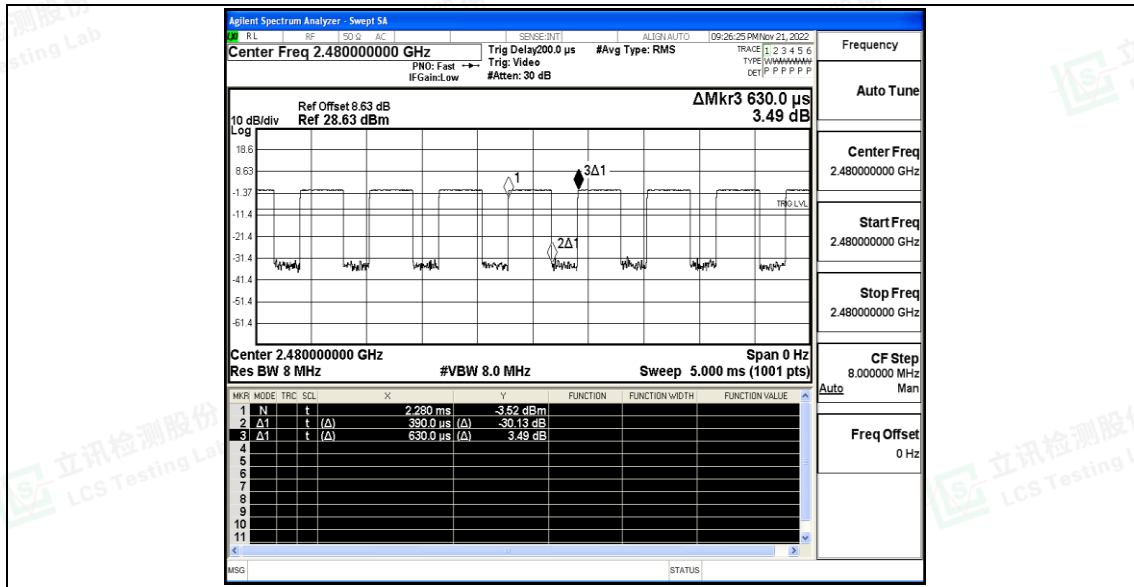


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant	Low	2402	AV	2310.000	-57.42	≤-41.20	37.78	≤54	PASS
				AV	2389.775	-56.55	≤-41.20	38.65	≤54	PASS
				AV	2390.000	-57	≤-41.20	38.20	≤54	PASS
				Peak	2310.000	-50.52	≤-21.20	44.68	≤74	PASS
				Peak	2354.075	-47.97	≤-21.20	47.23	≤74	PASS
				Peak	2390.000	-50.83	≤-21.20	44.37	≤74	PASS
		High	2480	AV	2483.500	-53.4	≤-41.20	41.80	≤54	PASS
				AV	2483.520	-53.4	≤-41.20	41.80	≤54	PASS
				AV	2500.000	-56.5	≤-41.20	38.70	≤54	PASS
				Peak	2483.500	-48.57	≤-21.20	46.63	≤74	PASS
				Peak	2490.720	-47.04	≤-21.20	48.16	≤74	PASS
				Peak	2500.000	-50.22	≤-21.20	44.98	≤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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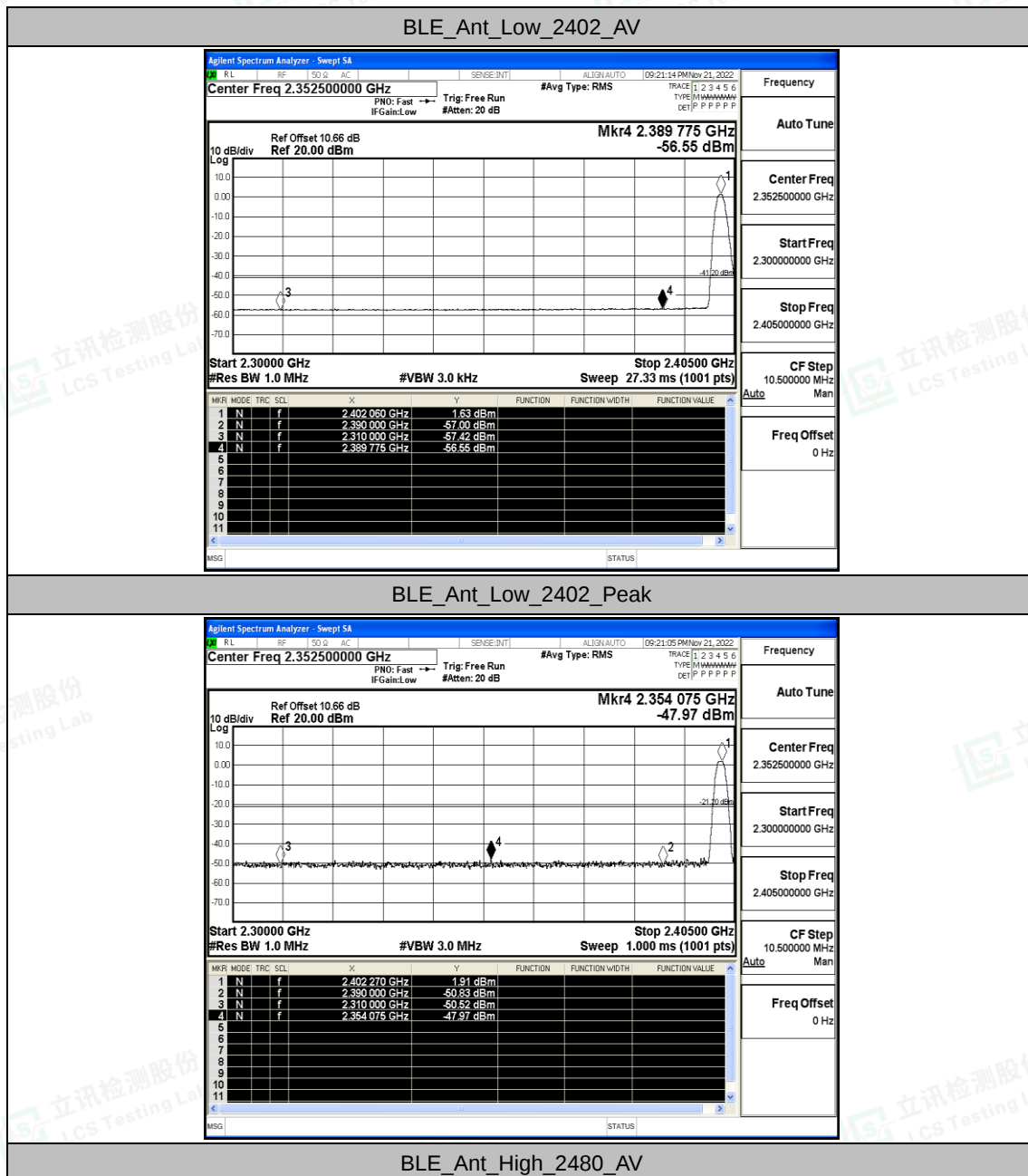
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Test Graphs

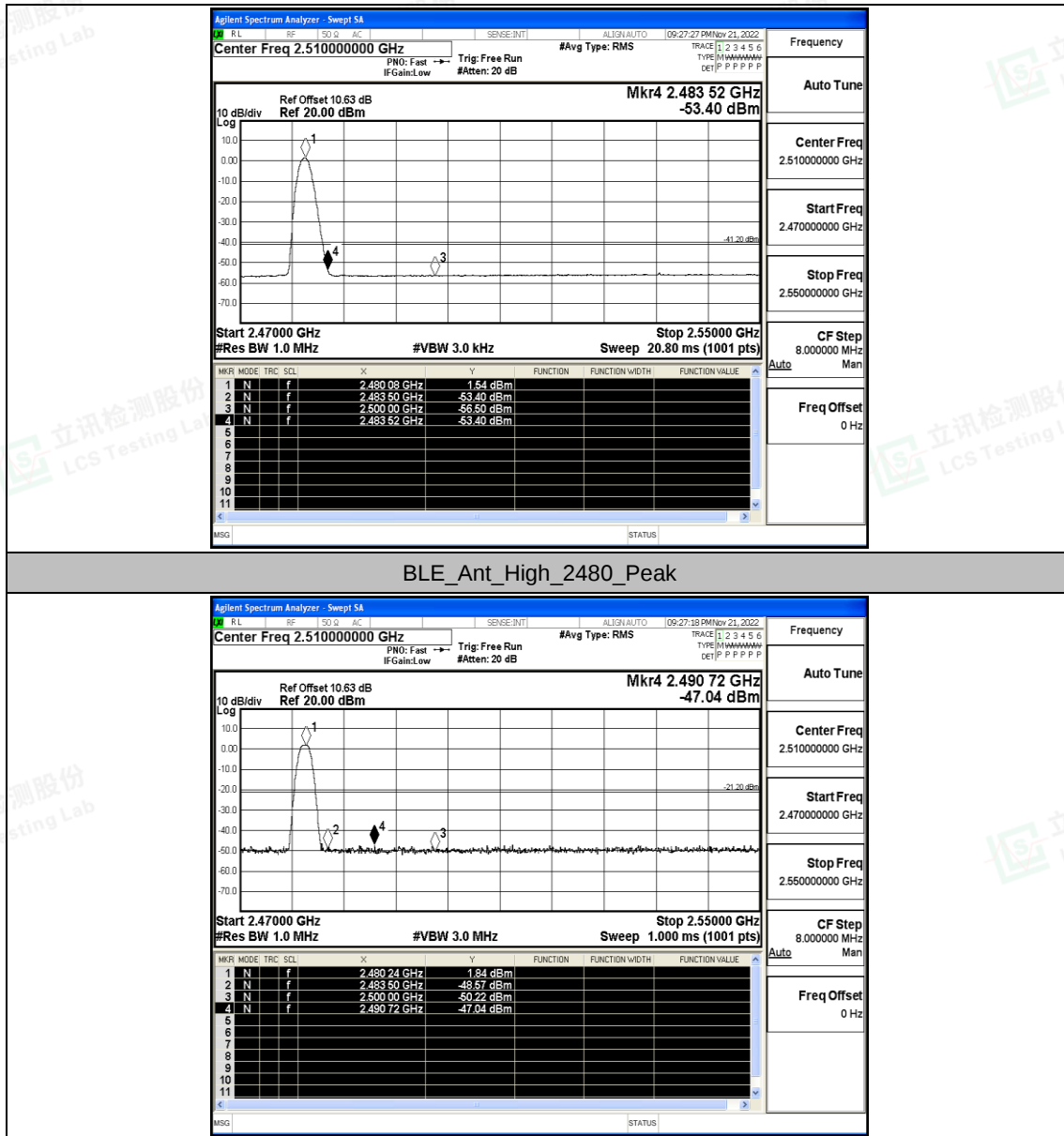


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