



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: WirelessCam Lite

Test Model: C6L

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





A.1 DTS Bandwidth

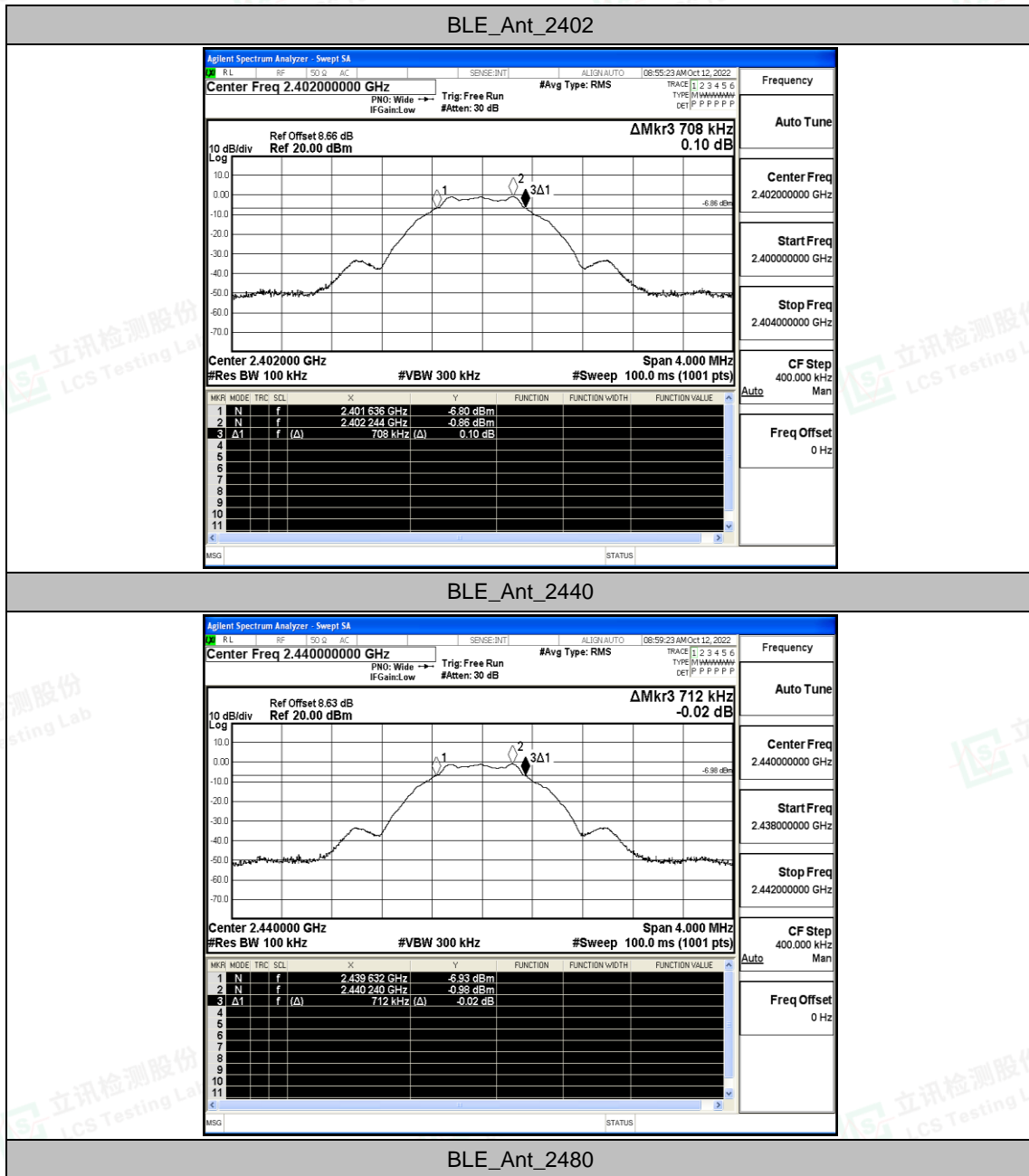
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.708	2401.636	2402.344	0.5	PASS
		2440	0.712	2439.632	2440.344	0.5	PASS
		2480	0.712	2479.632	2480.344	0.5	PASS





Test Graphs

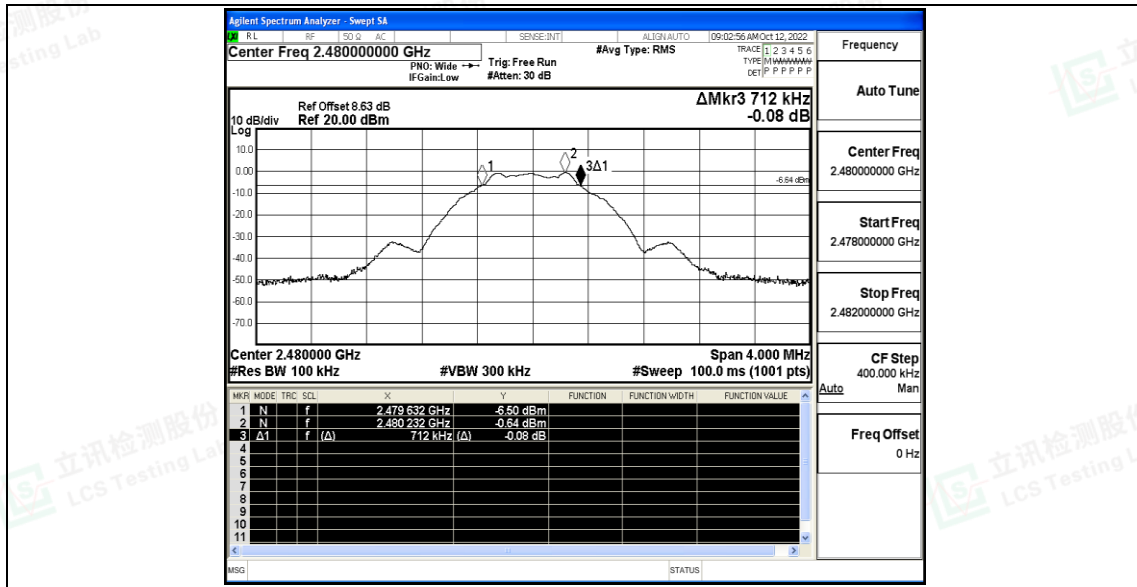


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A.2 Occupied Channel Bandwidth

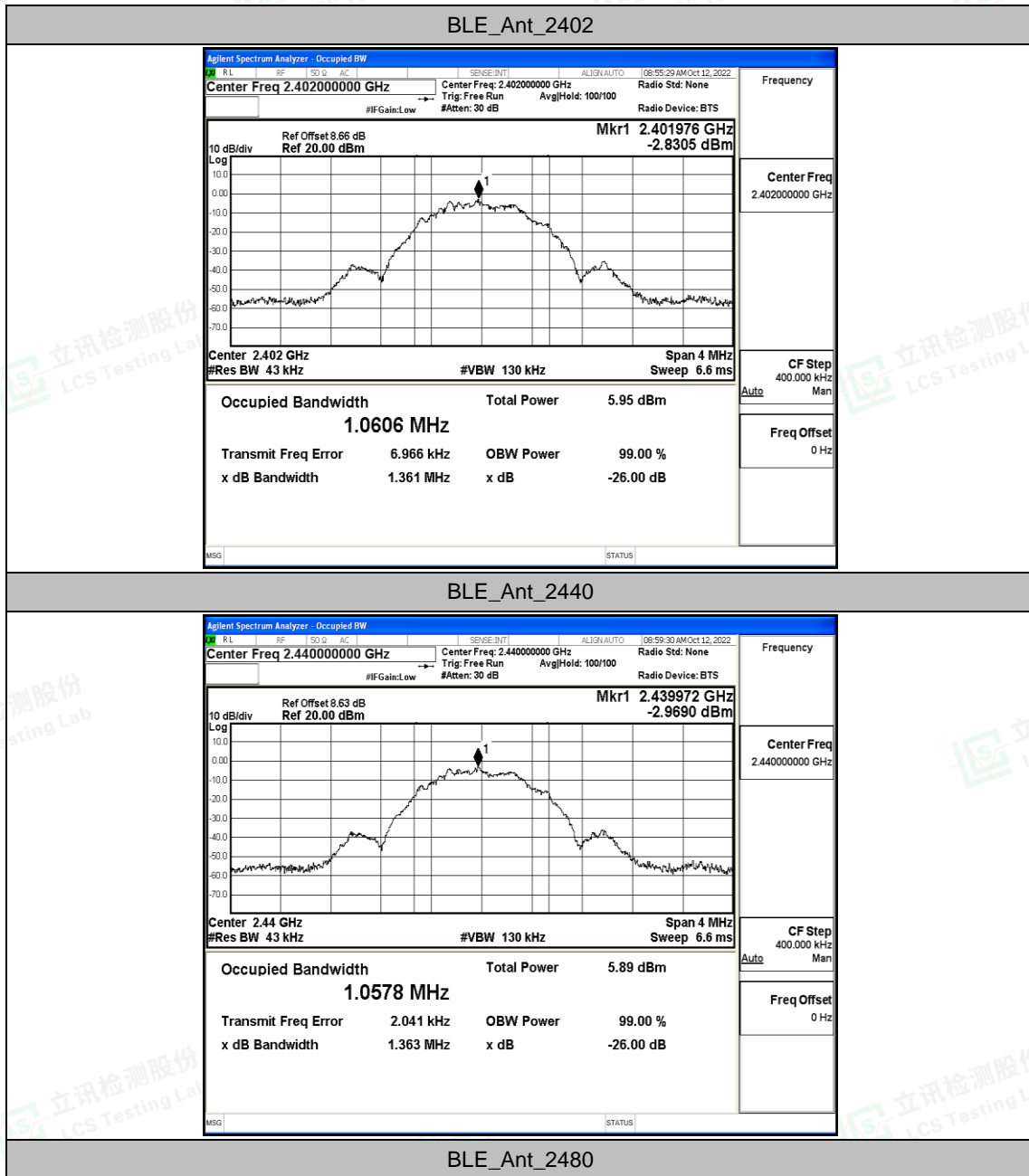
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	1.0606	2401.4767	2402.5373	---	PASS
		2440	1.0578	2439.4731	2440.5309	---	PASS
		2480	1.0571	2479.4724	2480.5295	---	PASS





Test Graphs

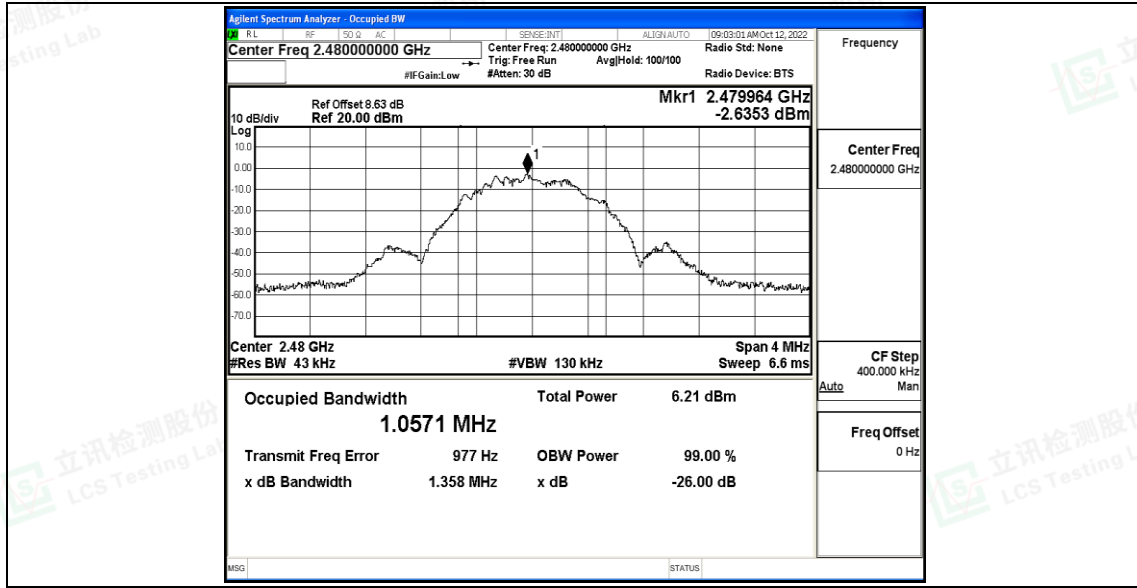


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A.3 Maximum conducted output power

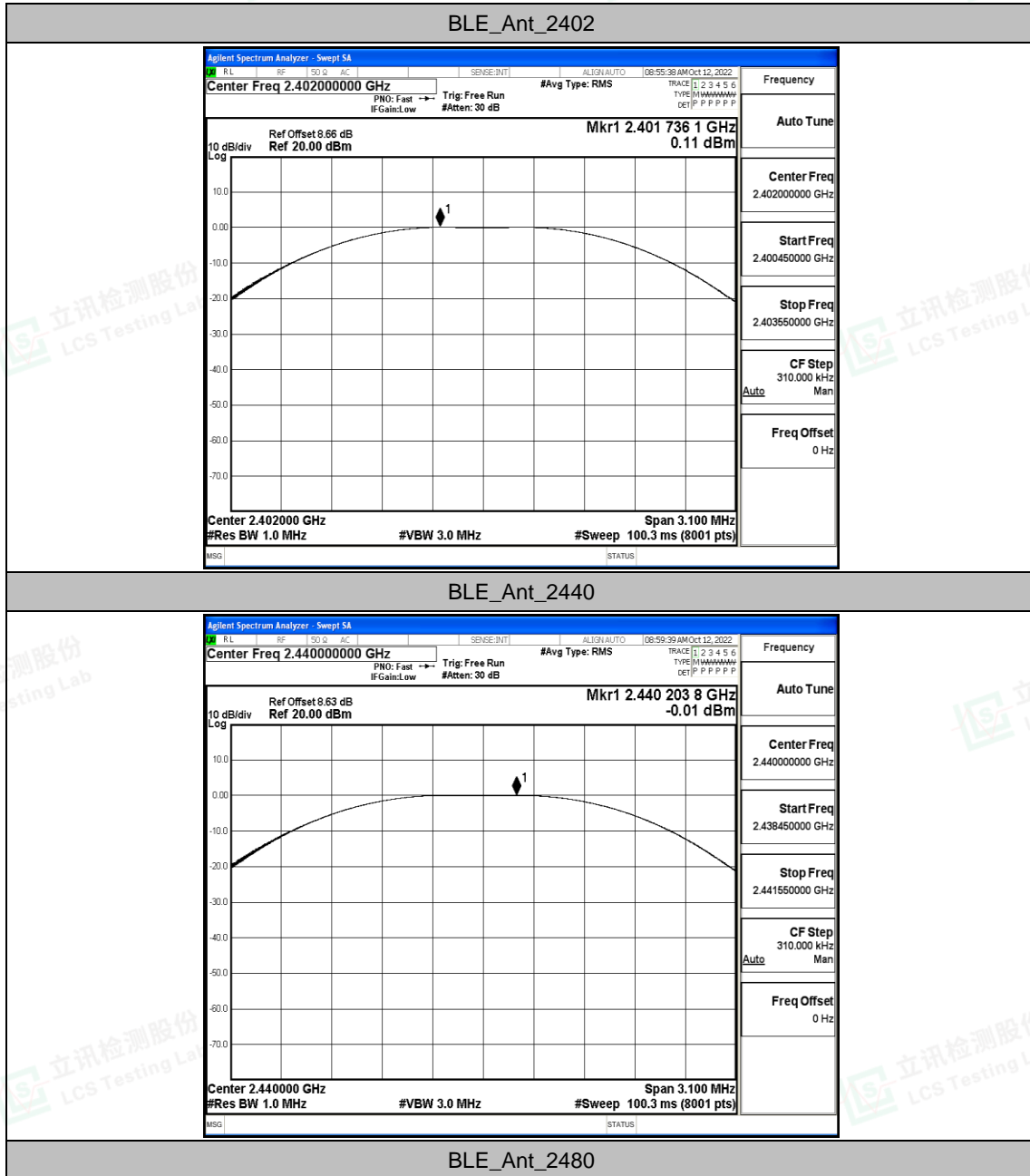
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	0.11	≤30	PASS
		2440	-0.01	≤30	PASS
		2480	0.34	≤30	PASS





Test Graphs

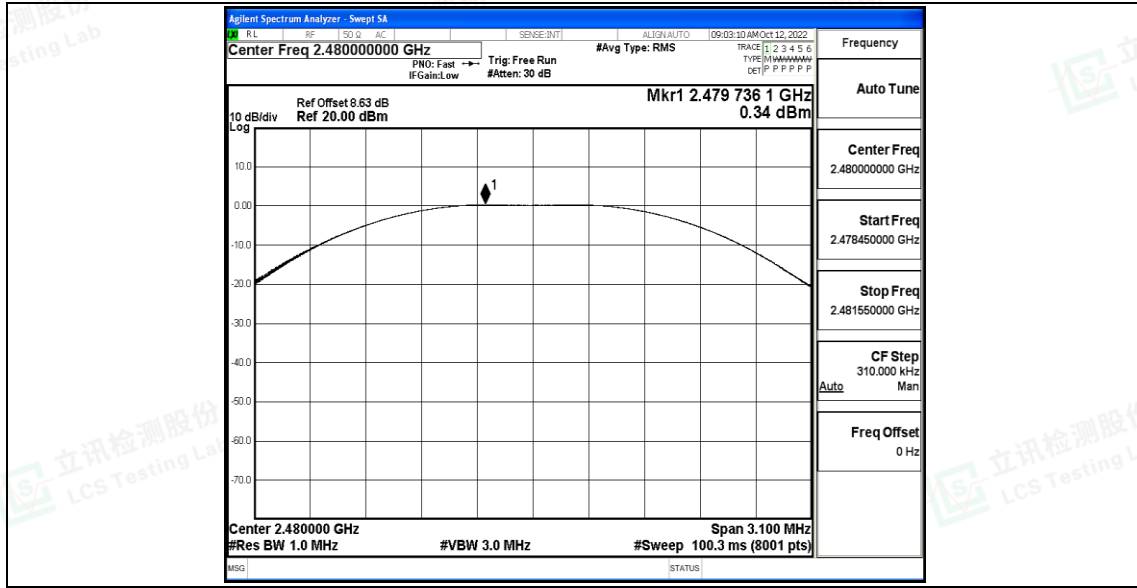


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A.4 Maximum power spectral density

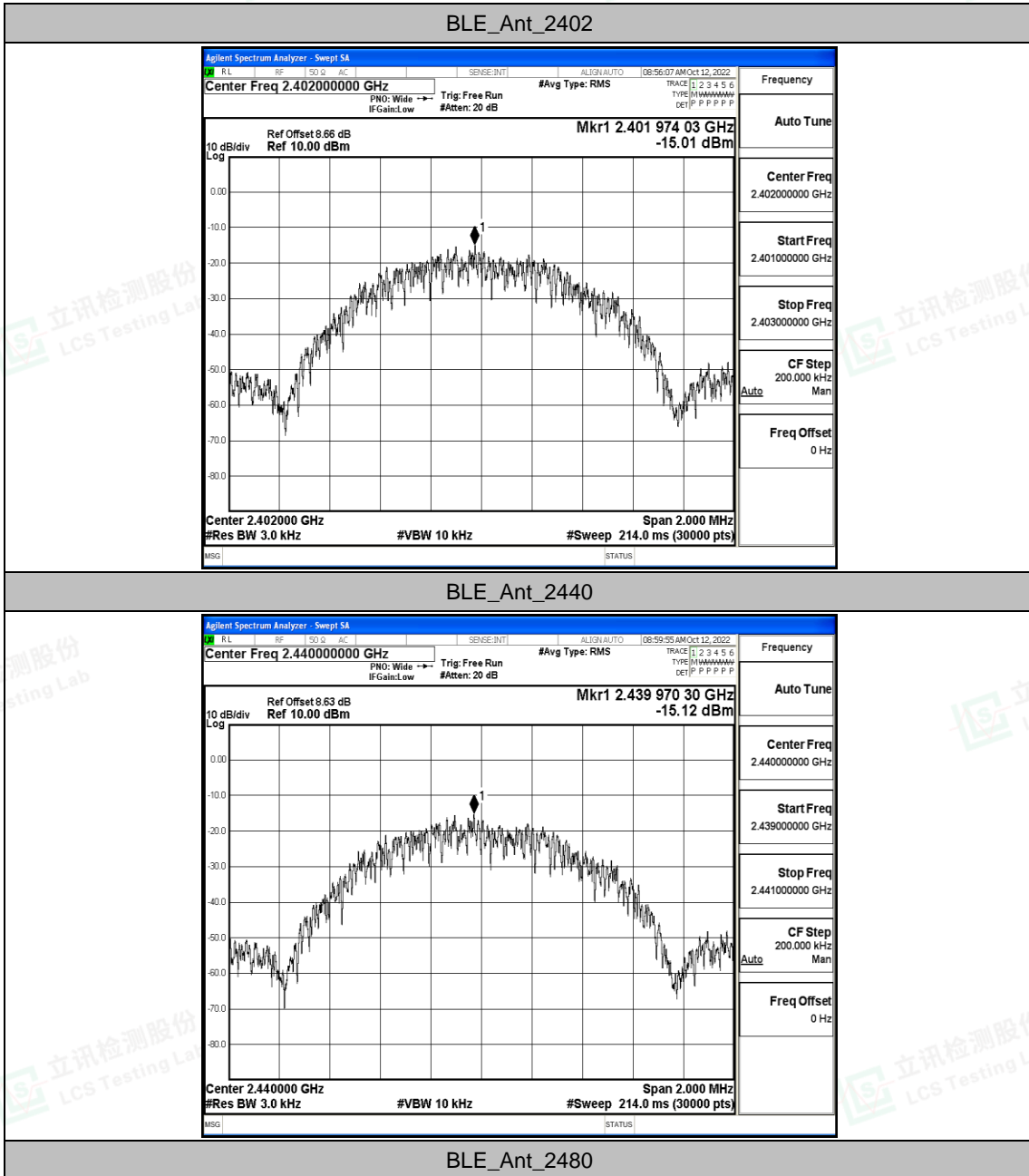
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-15.01	≤8.00	PASS
		2440	-15.12	≤8.00	PASS
		2480	-14.79	≤8.00	PASS





Test Graphs

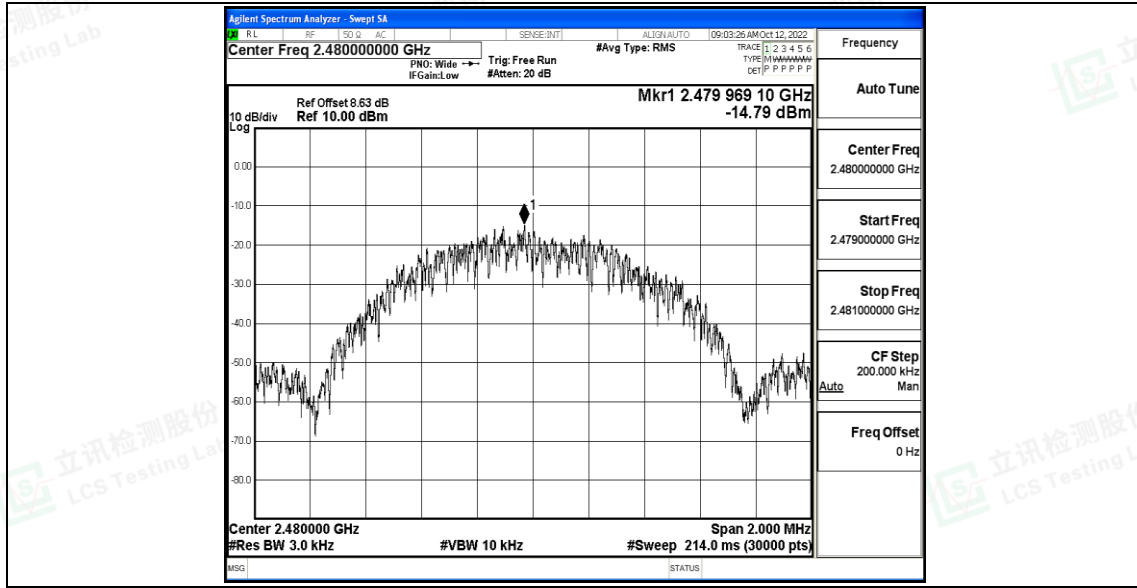


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A.5 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-0.57	-59.42	≤-20.57	PASS
		High	2480	-0.51	-58.35	≤-20.51	PASS





Test Graphs



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A.6 Conducted Spurious Emission

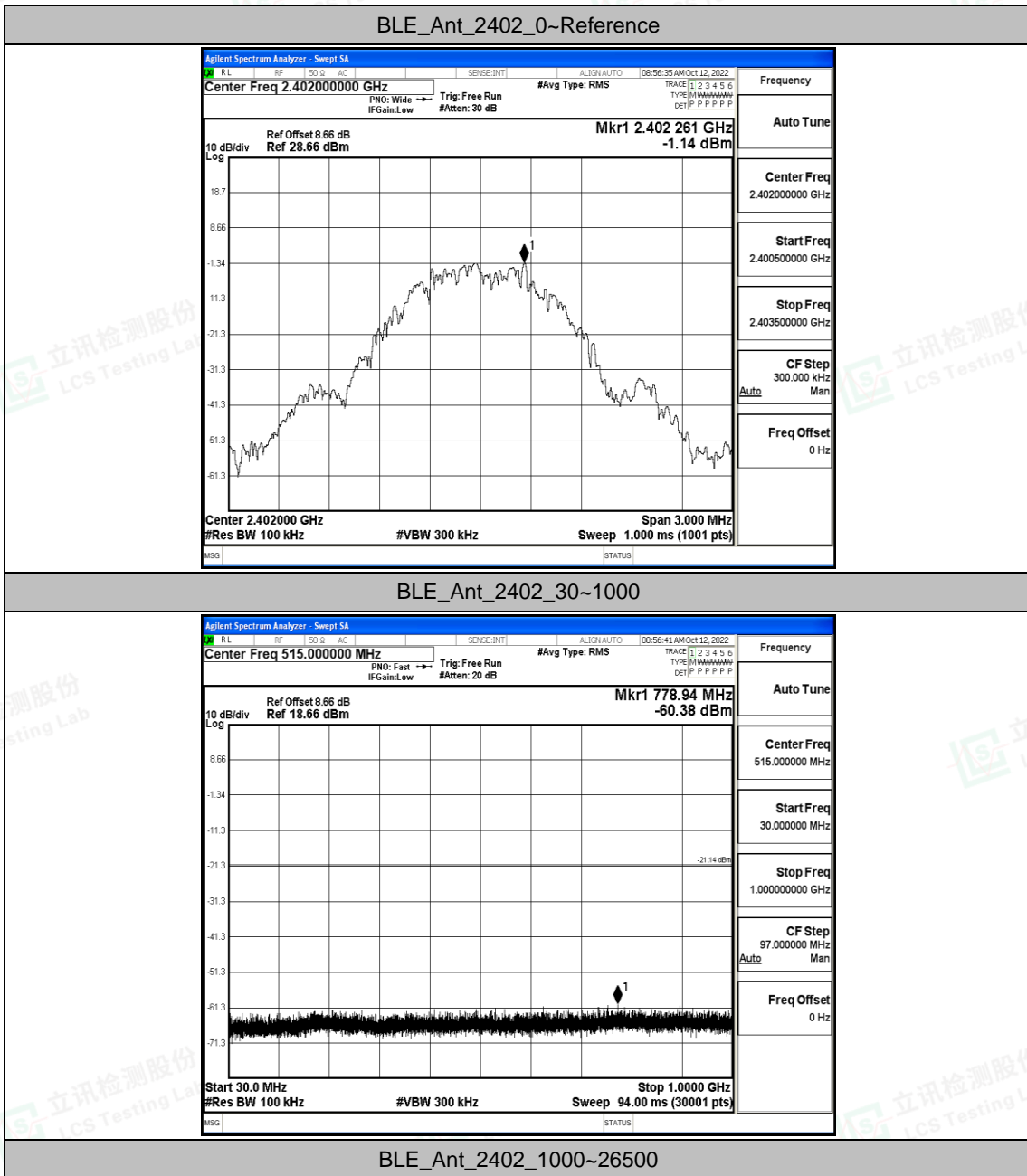
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-60.38	≤-21.14	PASS
			1000~26500	-1.14	-46.03	≤-21.14	PASS
		2440	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-59.6	≤-22.17	PASS
			1000~26500	-2.17	-45.37	≤-22.17	PASS
		2480	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-60.83	≤-21.33	PASS
			1000~26500	-1.33	-46.56	≤-21.33	PASS





Test Graphs

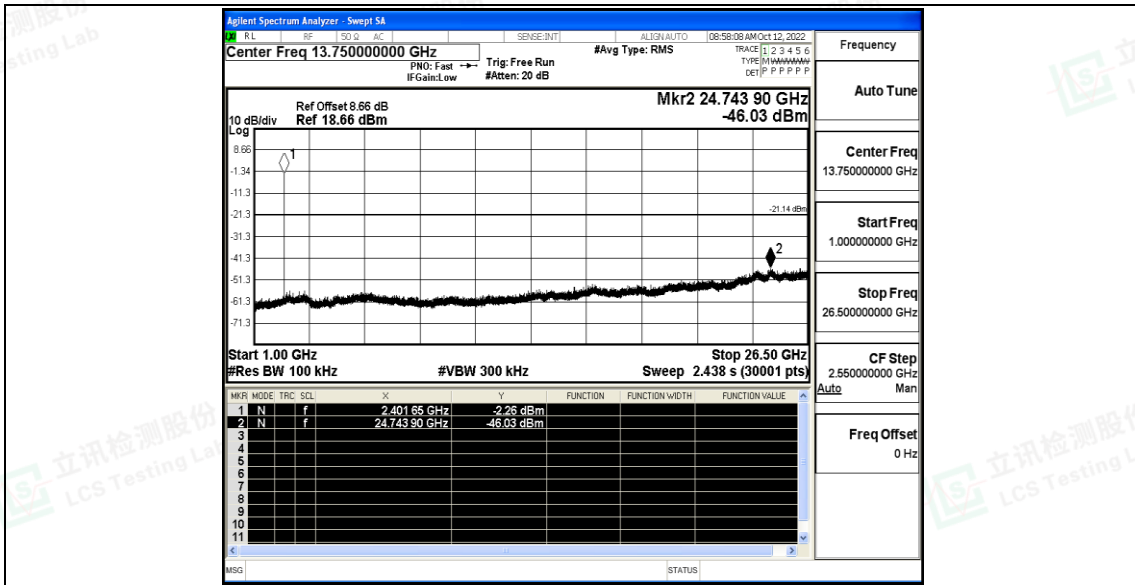


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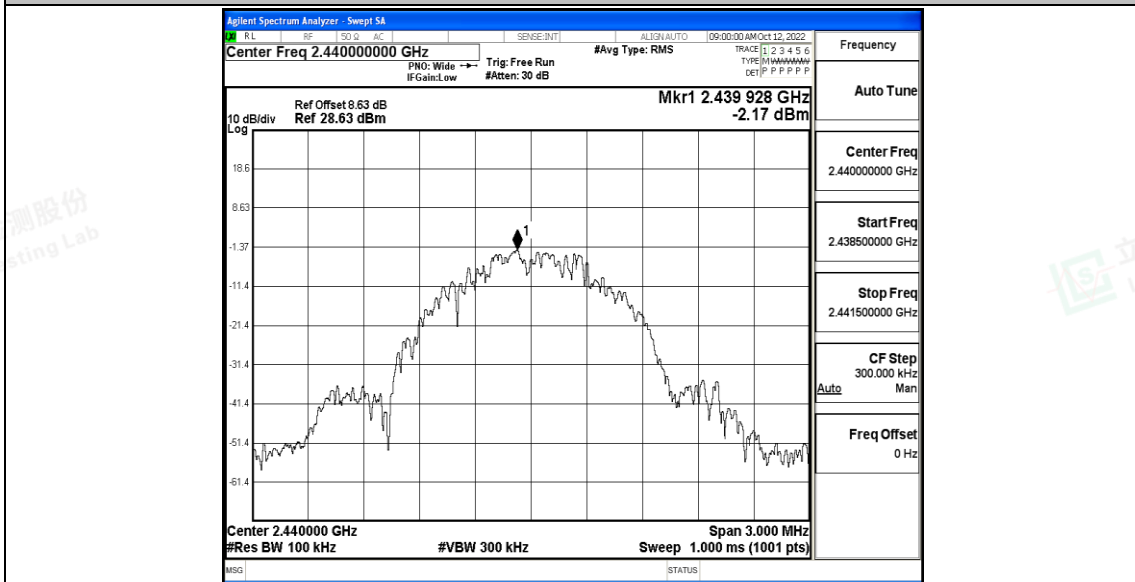
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BLE_Ant_2440_0~Reference



BLE_Ant_2440_30~1000

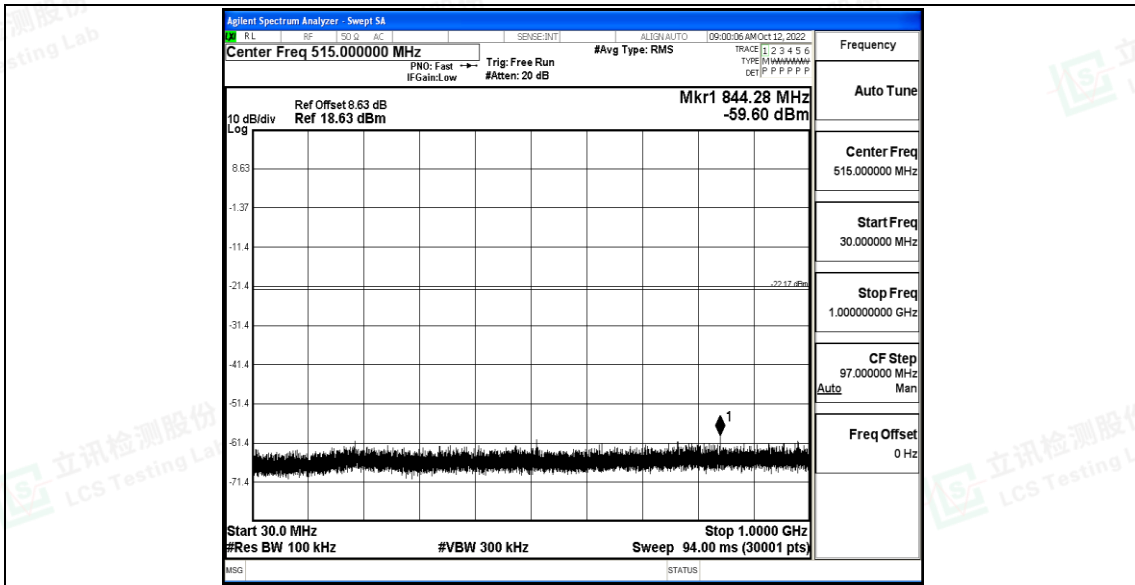


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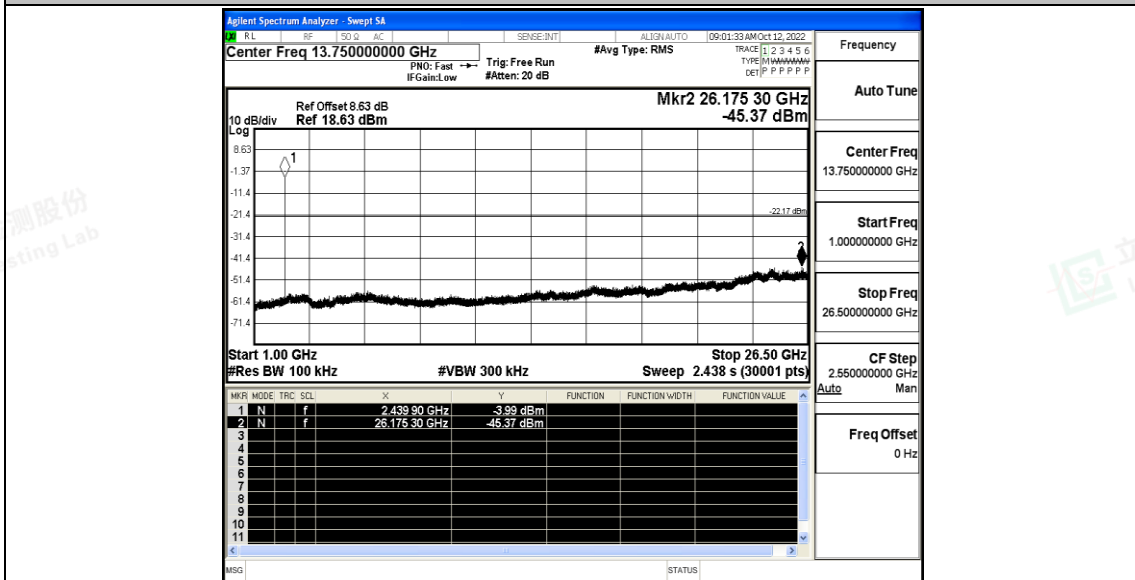
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BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference

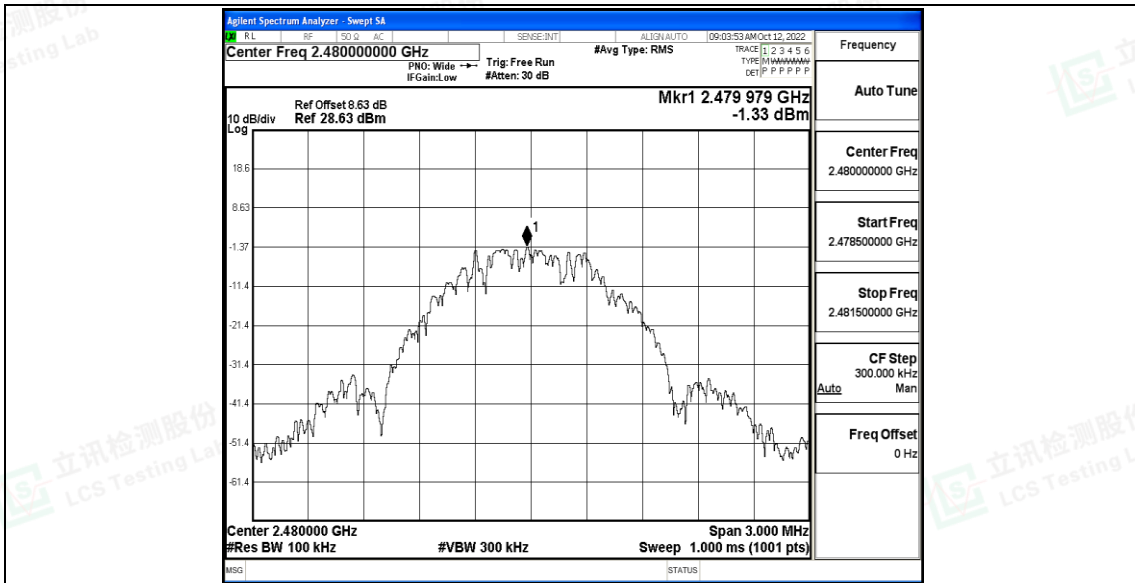


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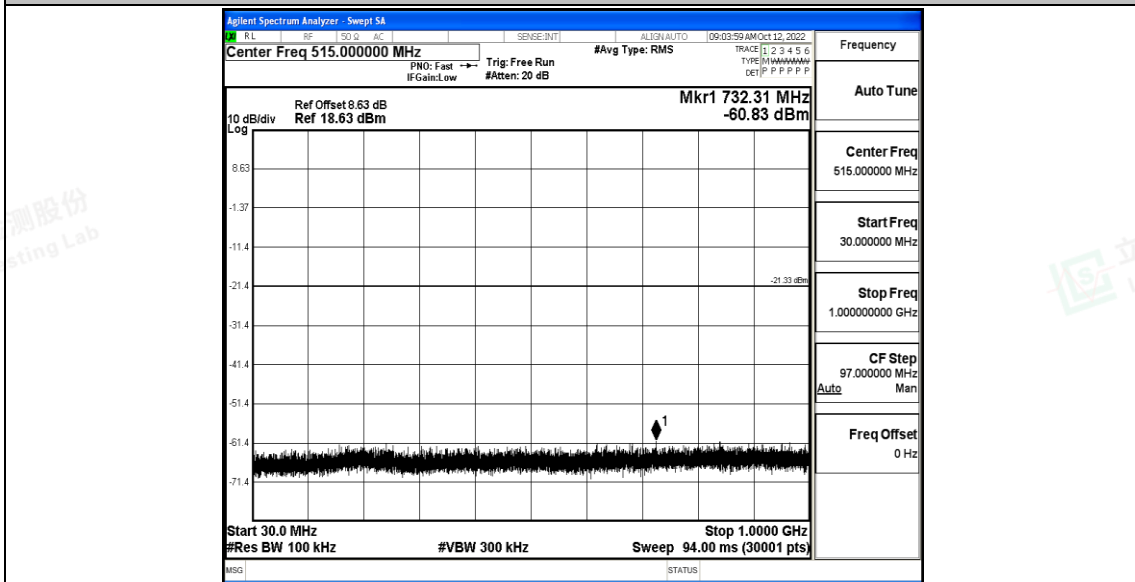
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BLE_Ant_2480_30~1000



BLE_Ant_2480_1000~26500

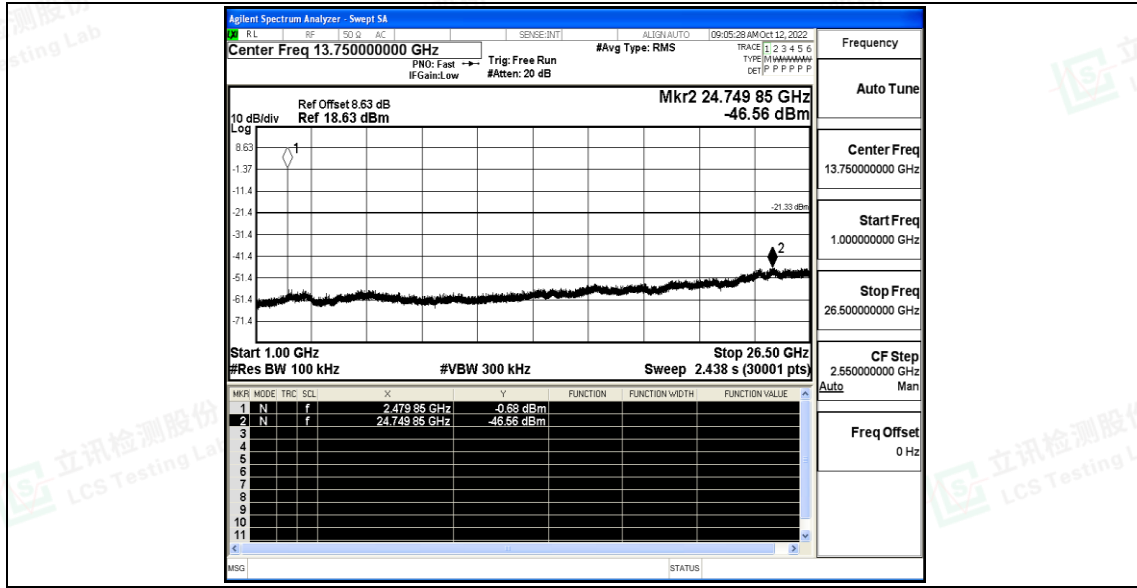


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A.7 Duty Cycle

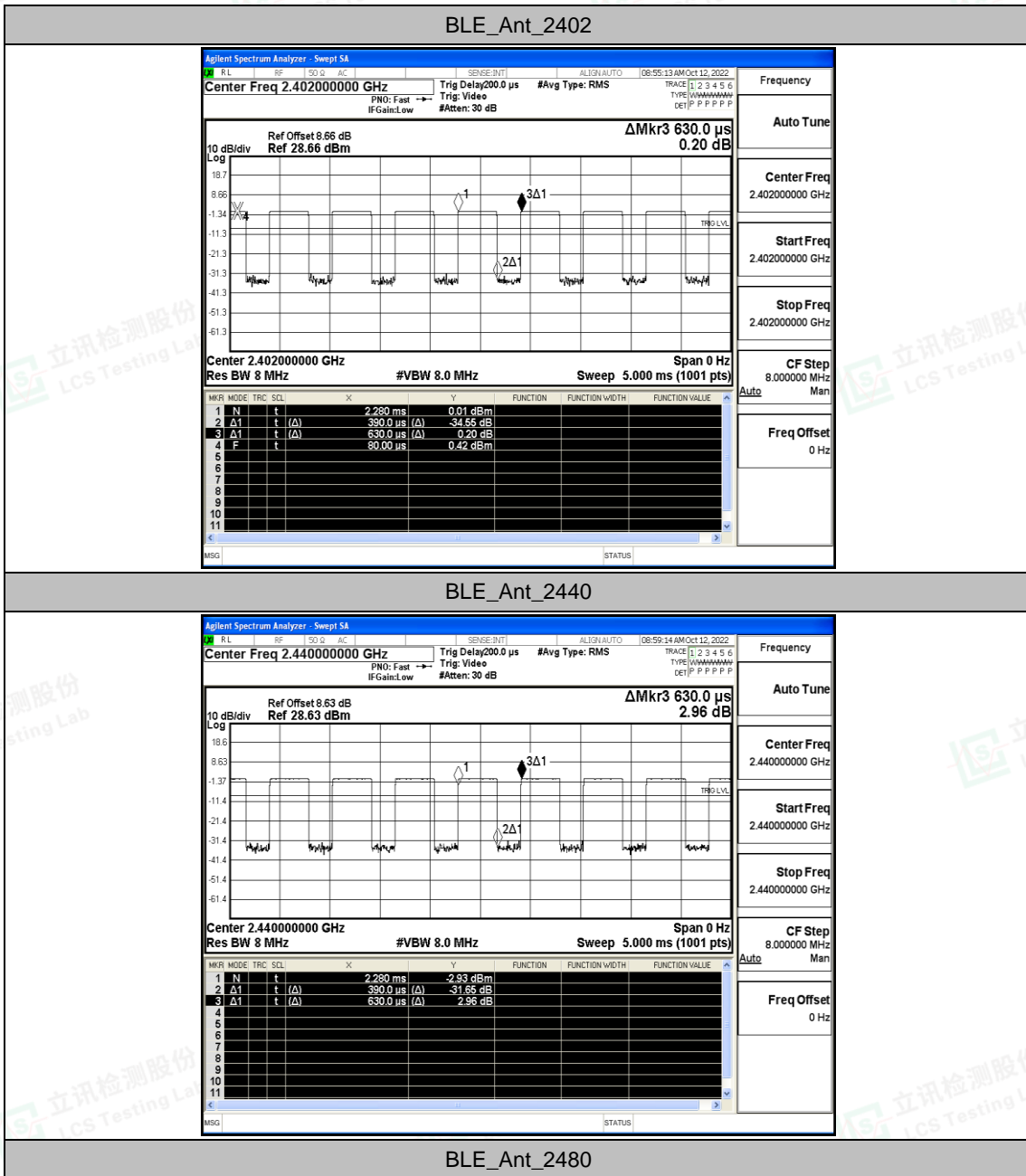
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS





Test Graphs

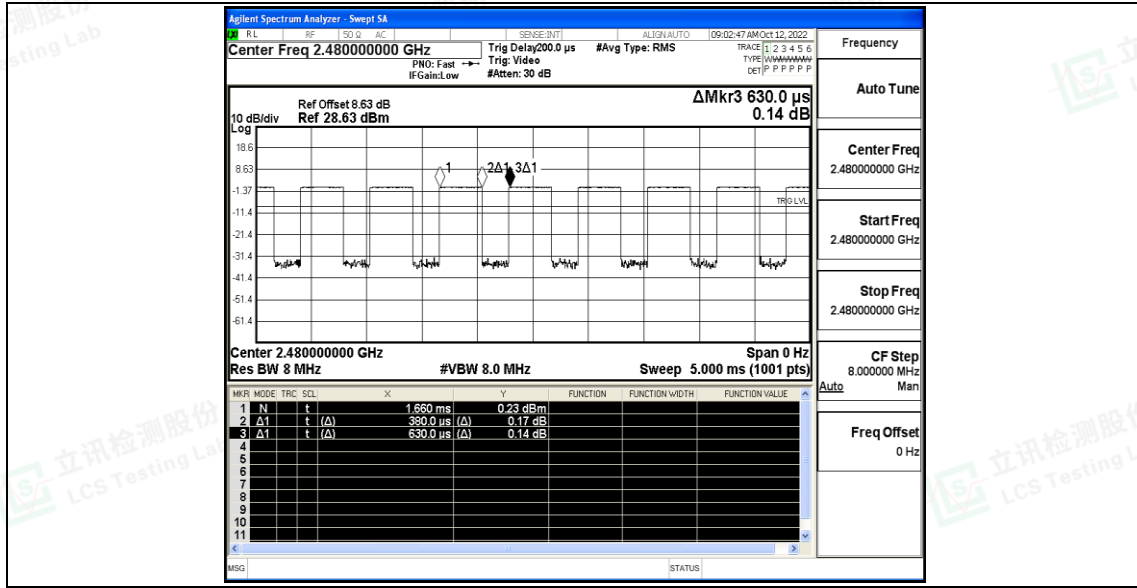


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A.8 Emissions in Restricted Bands

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	-57.19	≤-41.20	38.01	≤54	PASS
				AV	2355.860	-56.59	≤-41.20	38.61	≤54	PASS
				AV	2390.000	-57.11	≤-41.20	38.09	≤54	PASS
				Peak	2310.000	-51.87	≤-21.20	43.33	≤74	PASS
				Peak	2346.935	-47.94	≤-21.20	47.26	≤74	PASS
				Peak	2390.000	-50.32	≤-21.20	44.88	≤74	PASS
		High	2480	AV	2483.500	-53.38	≤-41.20	41.82	≤54	PASS
				AV	2483.520	-53.38	≤-41.20	41.82	≤54	PASS
				AV	2500.000	-56.62	≤-41.20	38.58	≤54	PASS
				Peak	2483.500	-49.67	≤-21.20	45.53	≤74	PASS
				Peak	2497.040	-47.29	≤-21.20	47.91	≤74	PASS
				Peak	2500.000	-49.87	≤-21.20	45.33	≤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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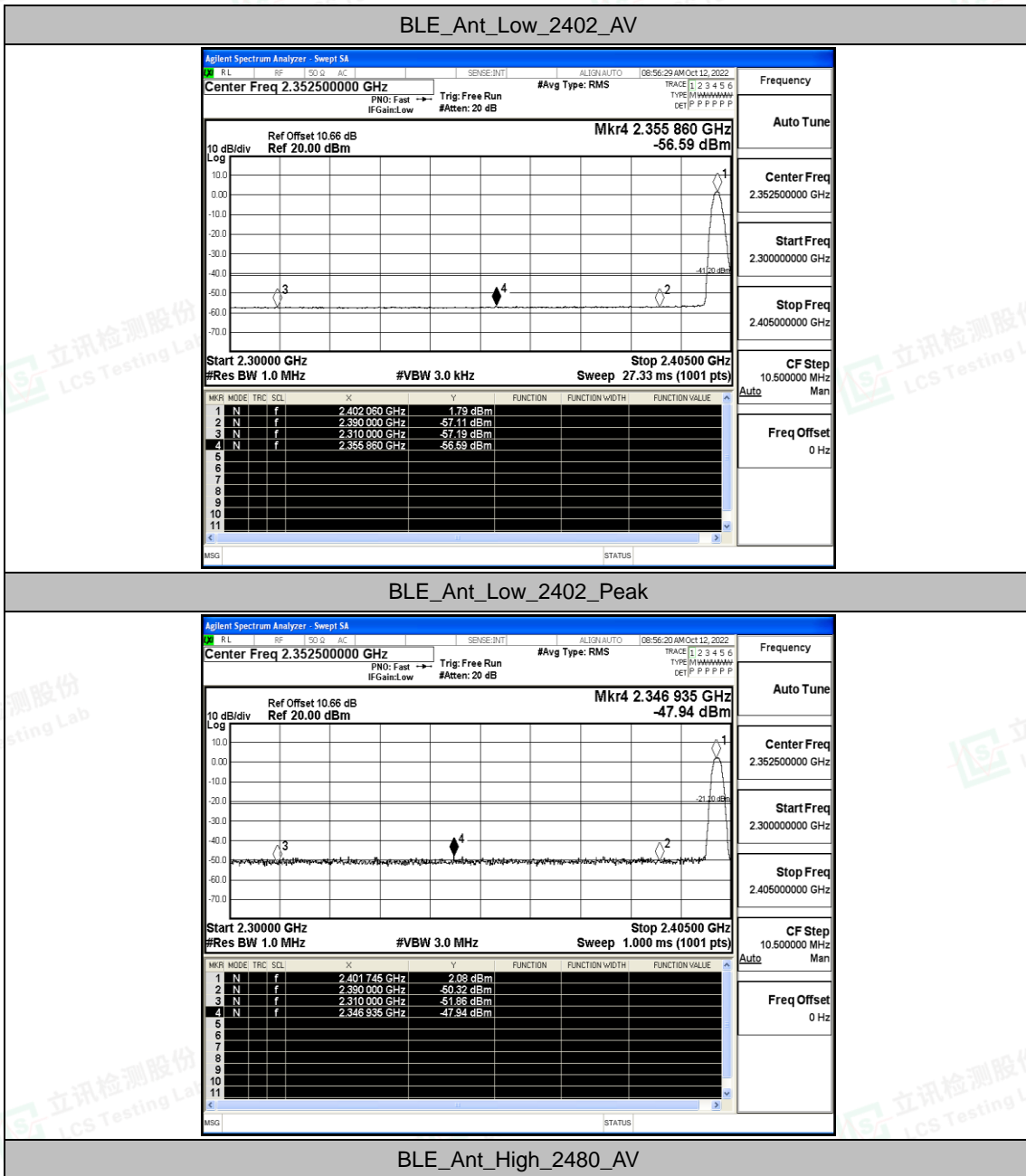
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Test Graphs

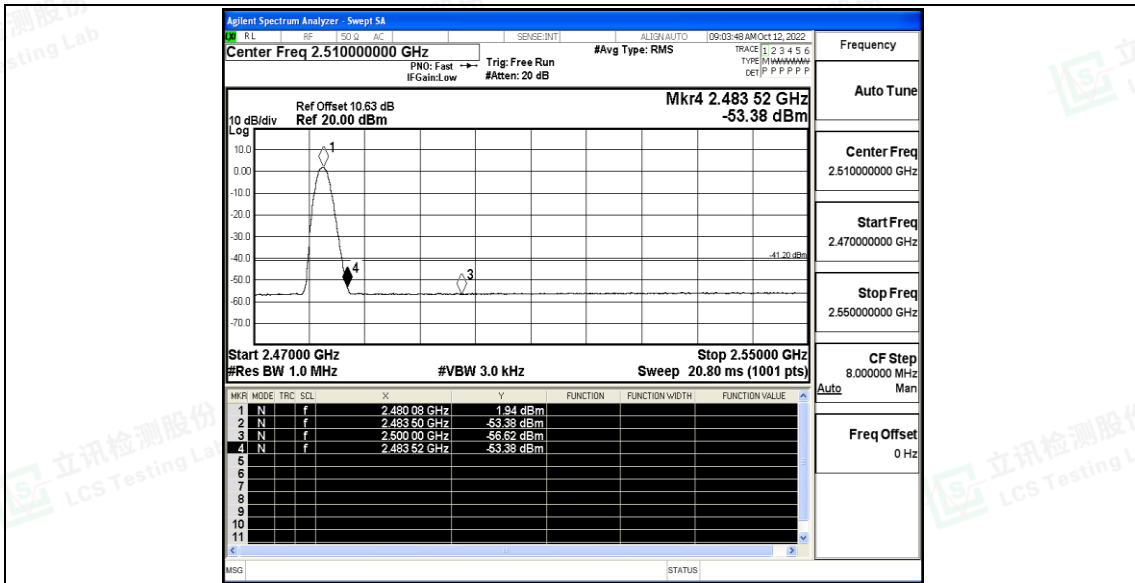


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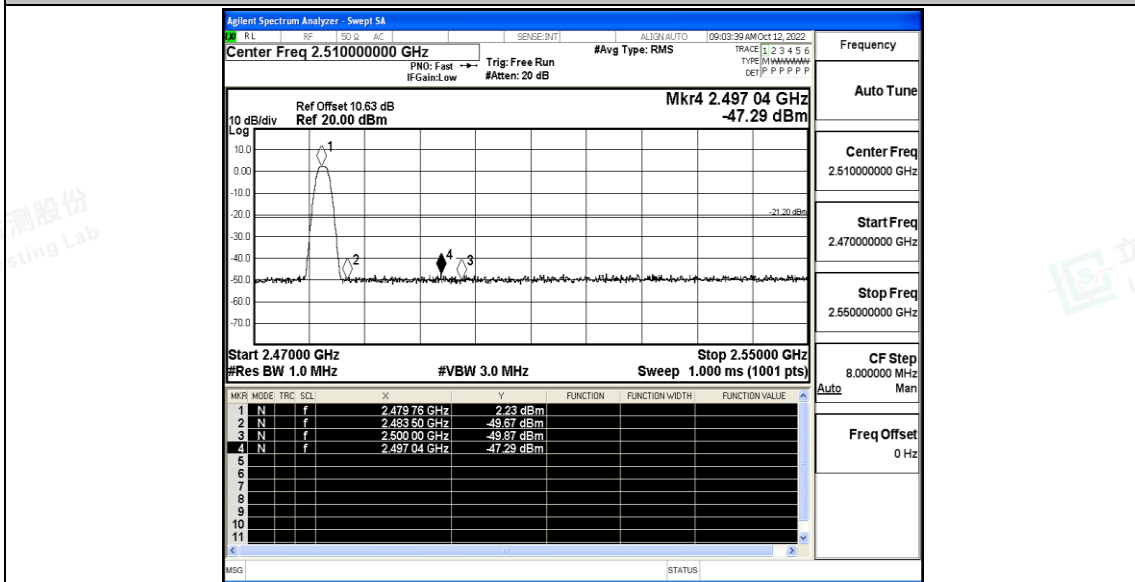
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BLE_Ant_High_2480_Peak



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