



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: NOTEBOOK

Test Model: H719

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Nick Peng





B.1 DTS Bandwidth

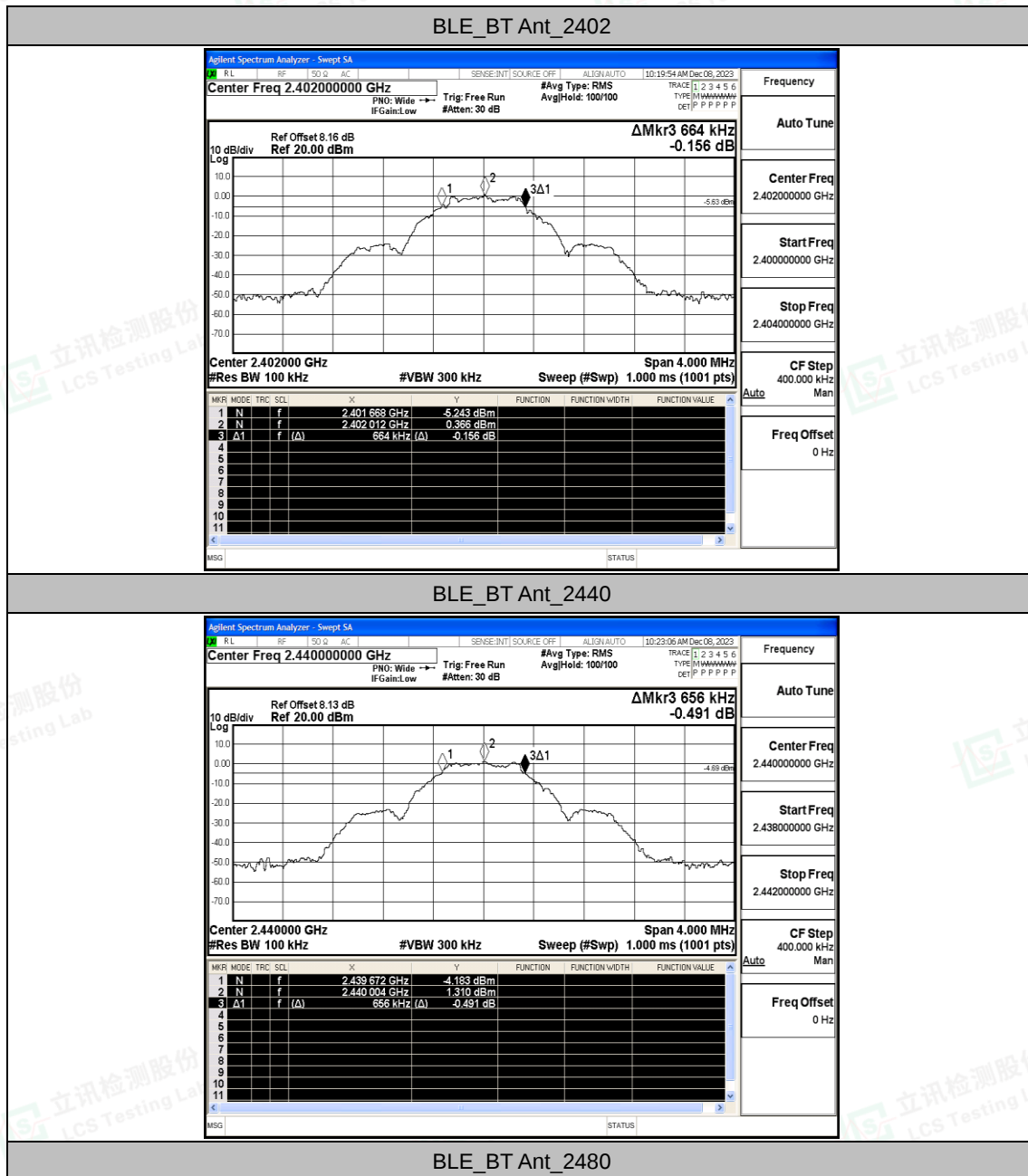
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	BT Ant	2402	0.664	2401.668	2402.332	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.676	2479.660	2480.336	0.5	PASS





Test Graphs

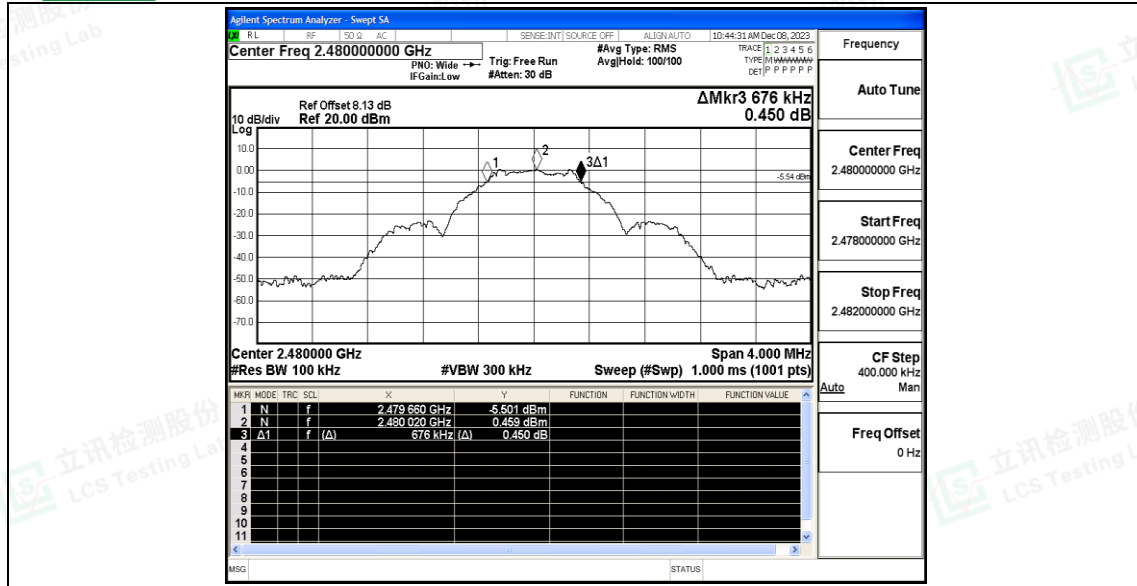


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B.2 Maximum conducted output power

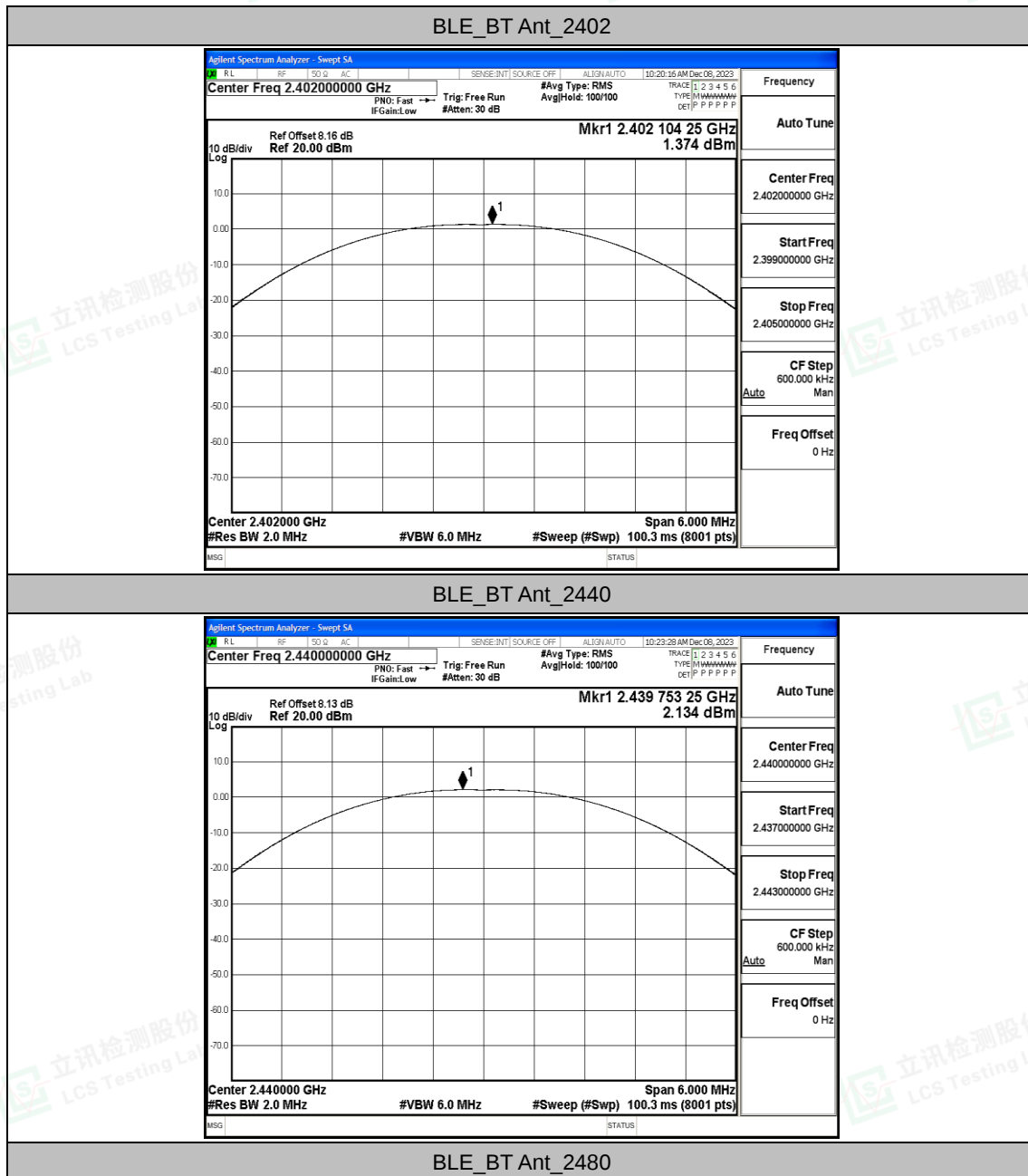
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	2402	1.37	≤30	PASS
		2440	2.13	≤30	PASS
		2480	1.80	≤30	PASS





Test Graphs

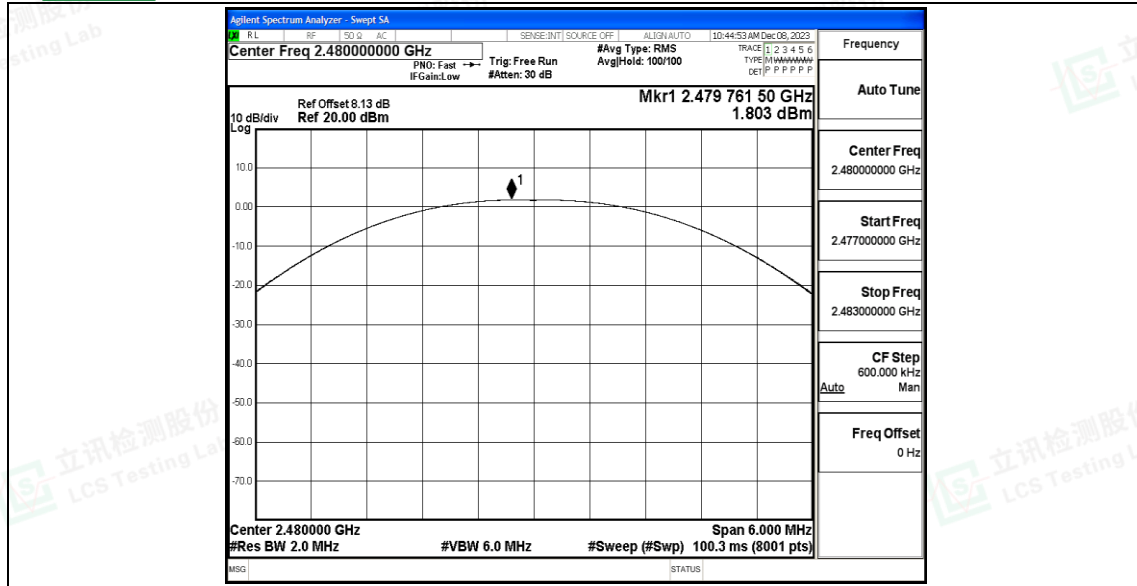


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B.3 Maximum power spectral density

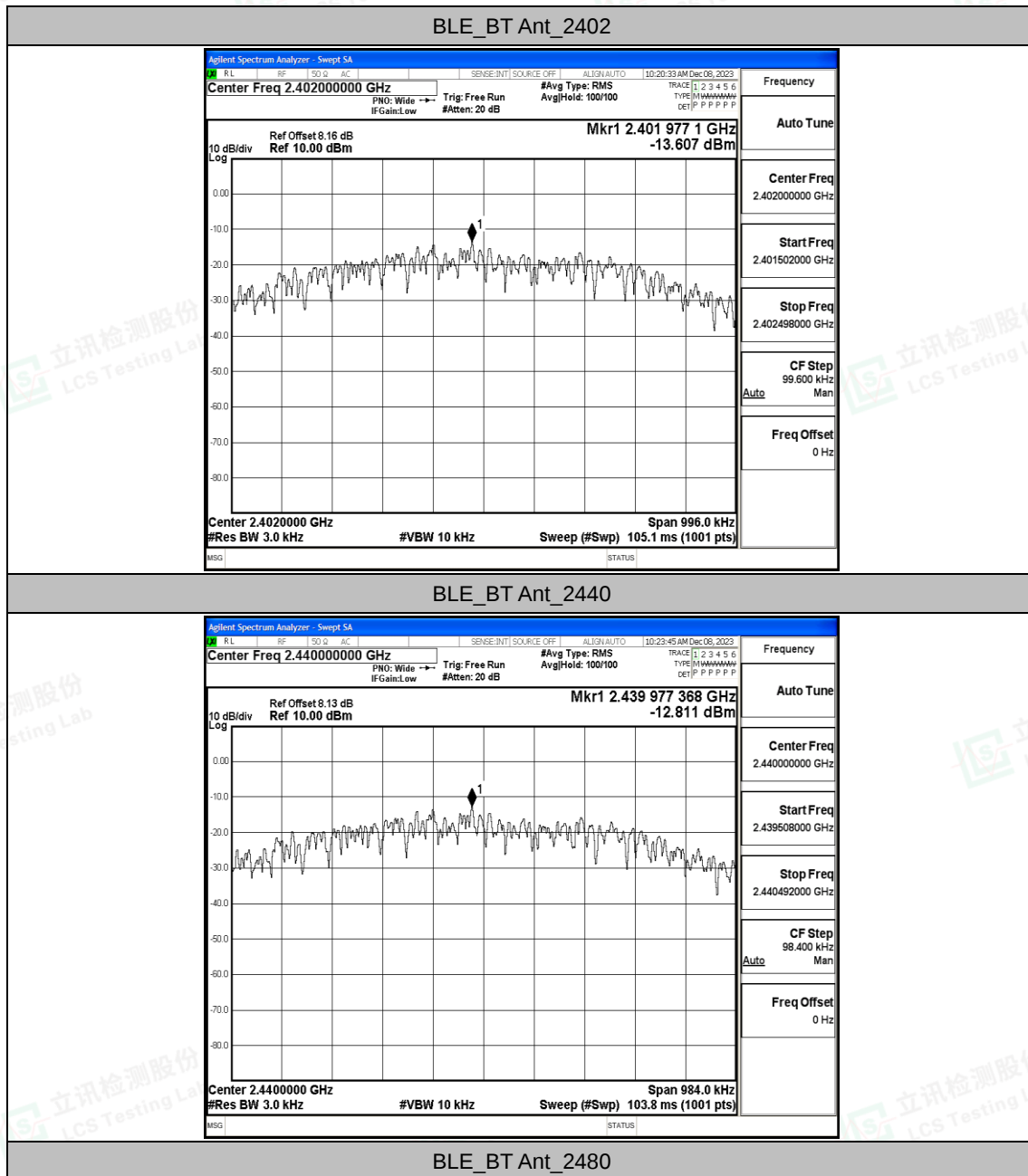
Test Result

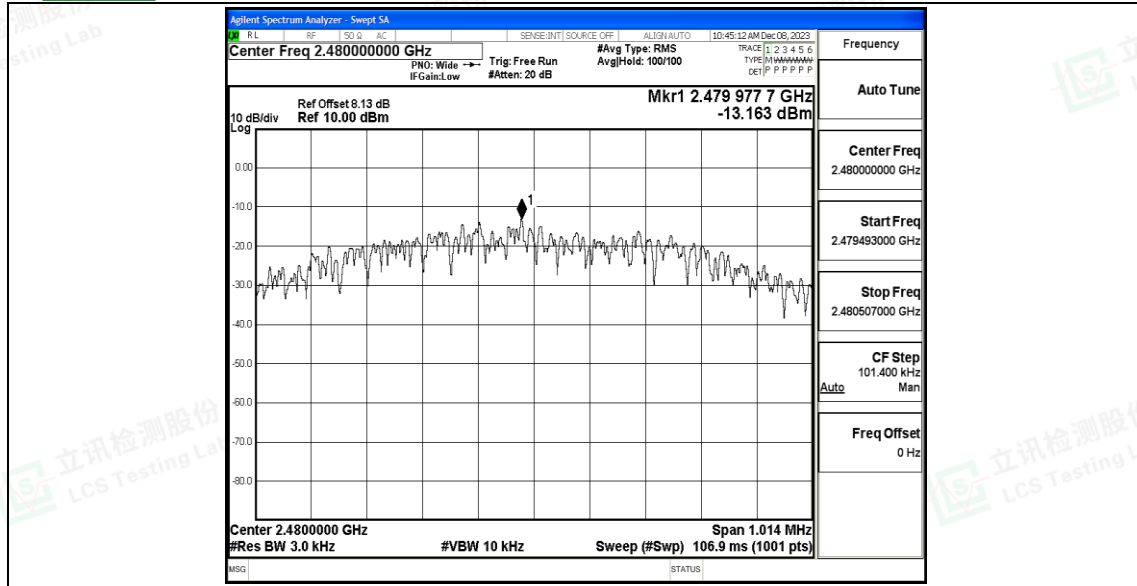
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	BT Ant	2402	-13.61	≤8.00	PASS
		2440	-12.81	≤8.00	PASS
		2480	-13.16	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	Low	2402	0.56	-49.45	≤-19.44	PASS
		High	2480	0.49	-49.56	≤-19.51	PASS





Test Graphs





B.5 Conducted Spurious Emission

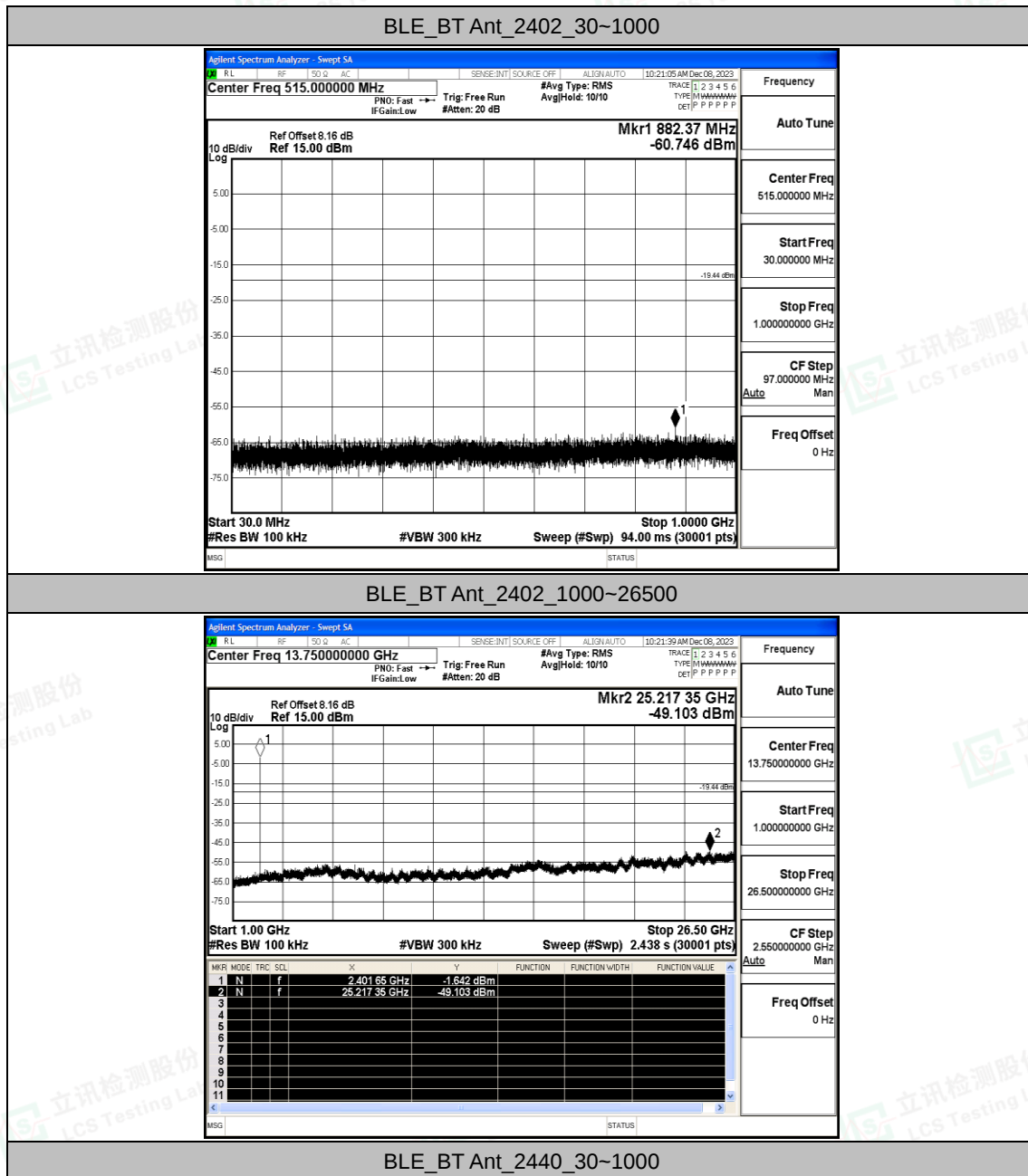
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	BT Ant	2402	30~1000	0.56	-60.75	≤-19.44	PASS
			1000~26500	0.56	-49.1	≤-19.44	PASS
		2440	30~1000	1.34	-61.75	≤-18.66	PASS
			1000~26500	1.34	-48.96	≤-18.66	PASS
		2480	30~1000	0.49	-61.95	≤-19.51	PASS
			1000~26500	0.49	-49.54	≤-19.51	PASS





Test Graphs

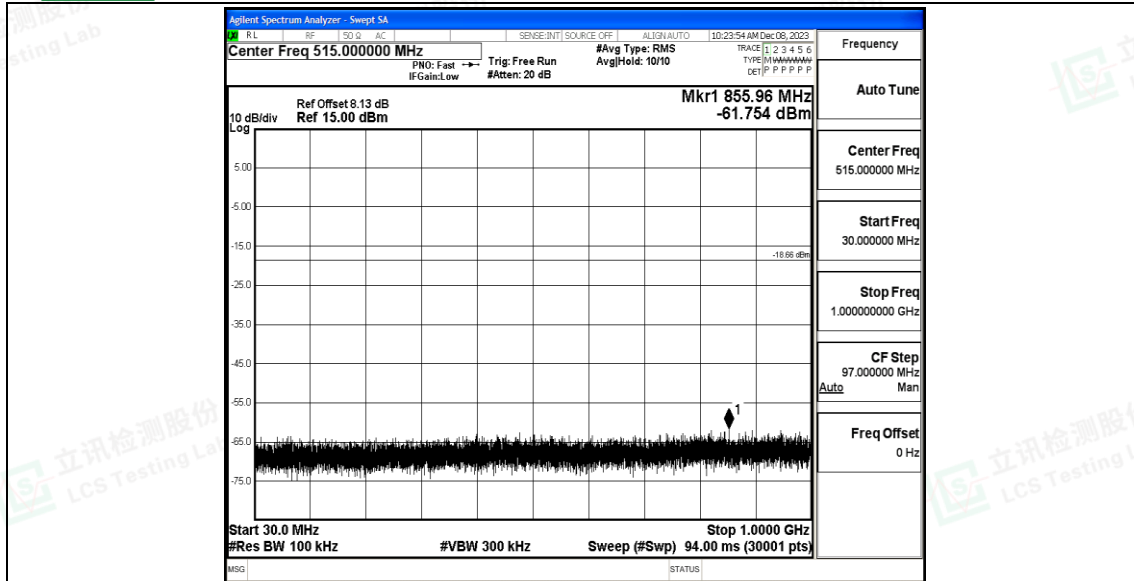


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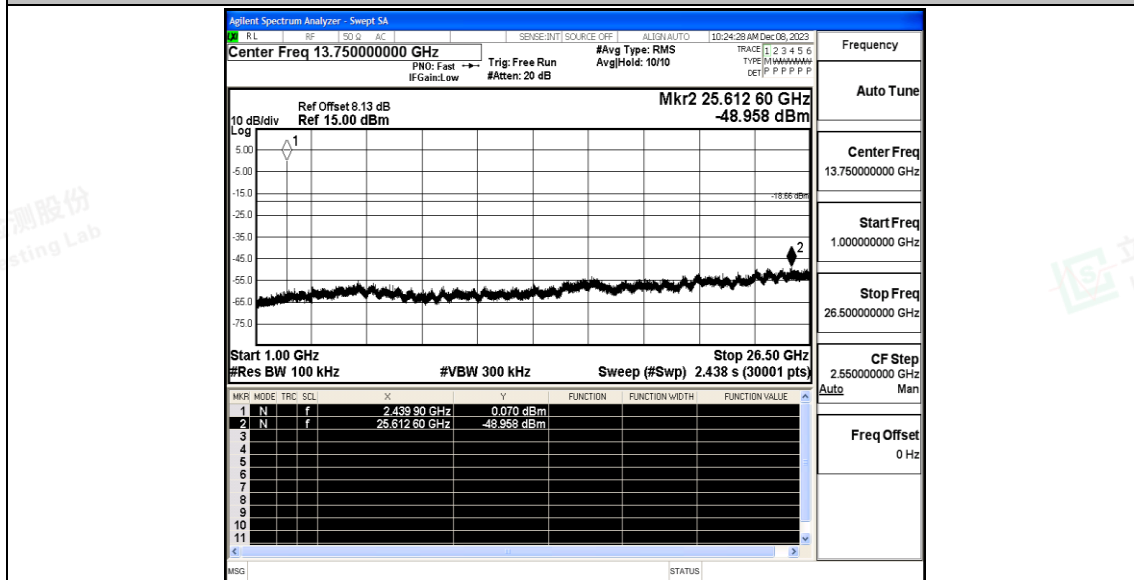
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BLE_BT Ant_2440_1000~26500



BLE_BT Ant_2480_30~1000

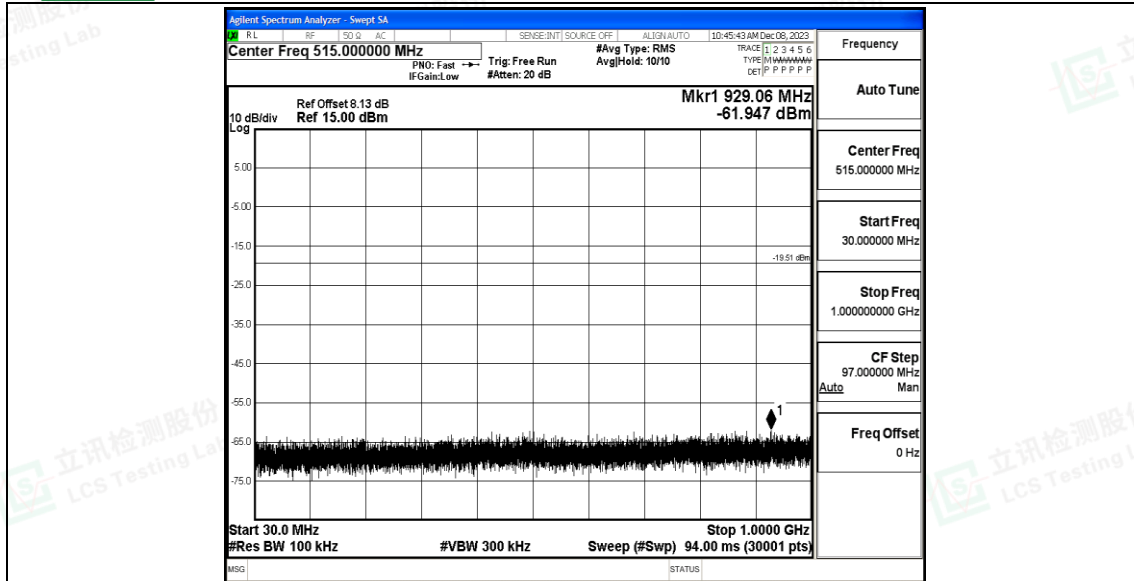


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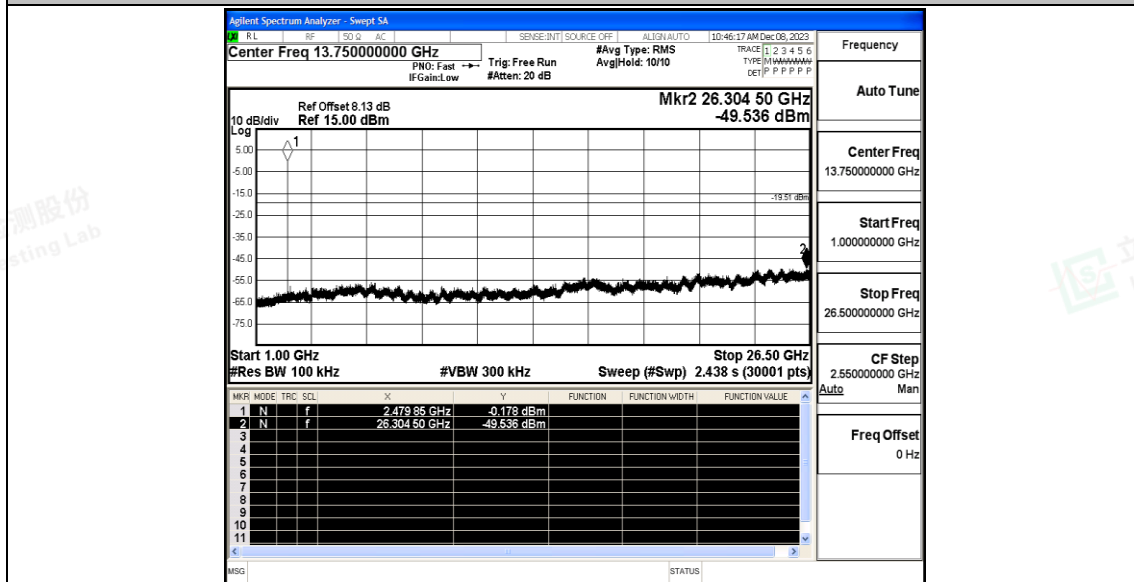
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BLE_BT Ant_2480_1000~26500



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Reference level measurement

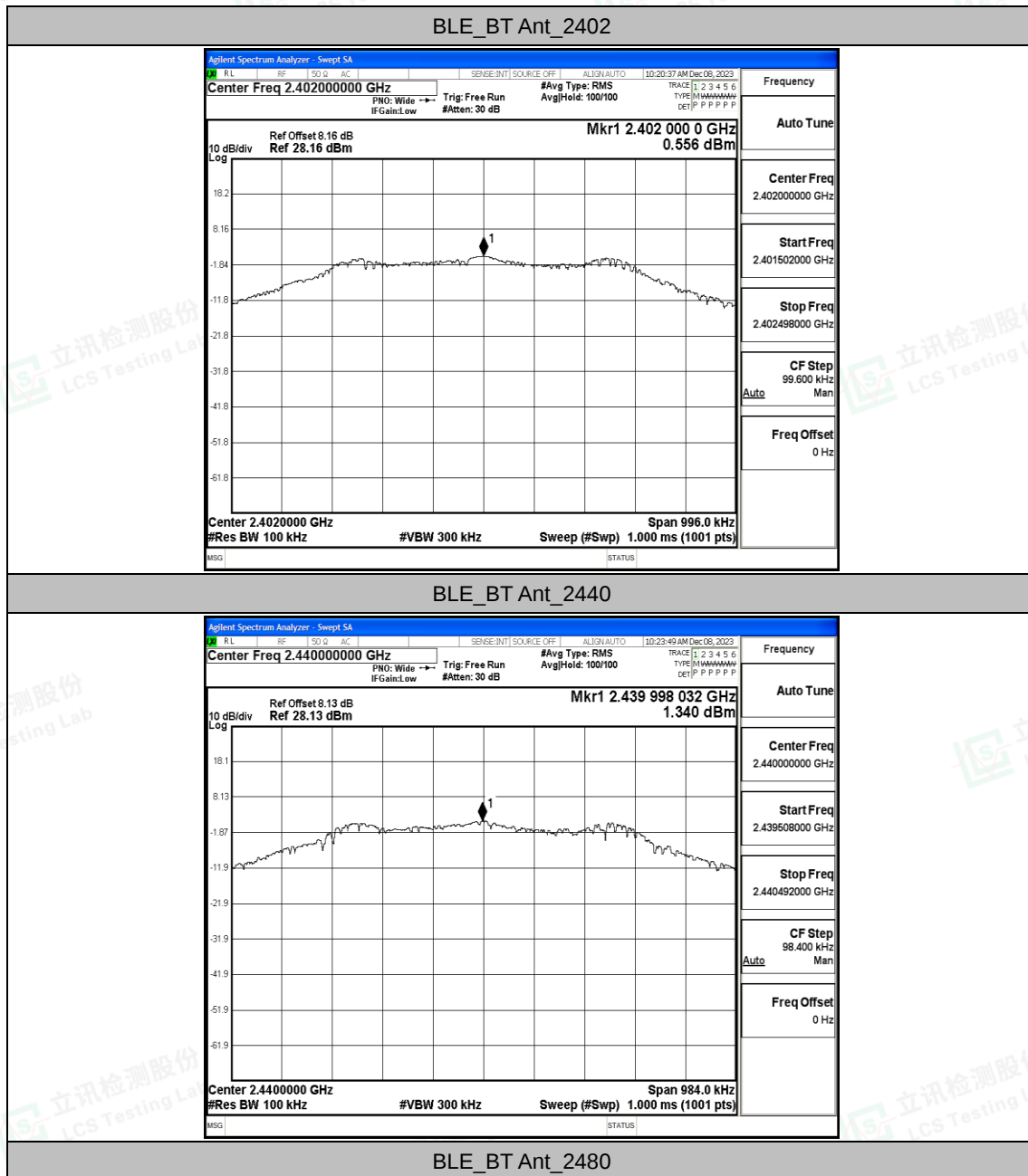
Test Result

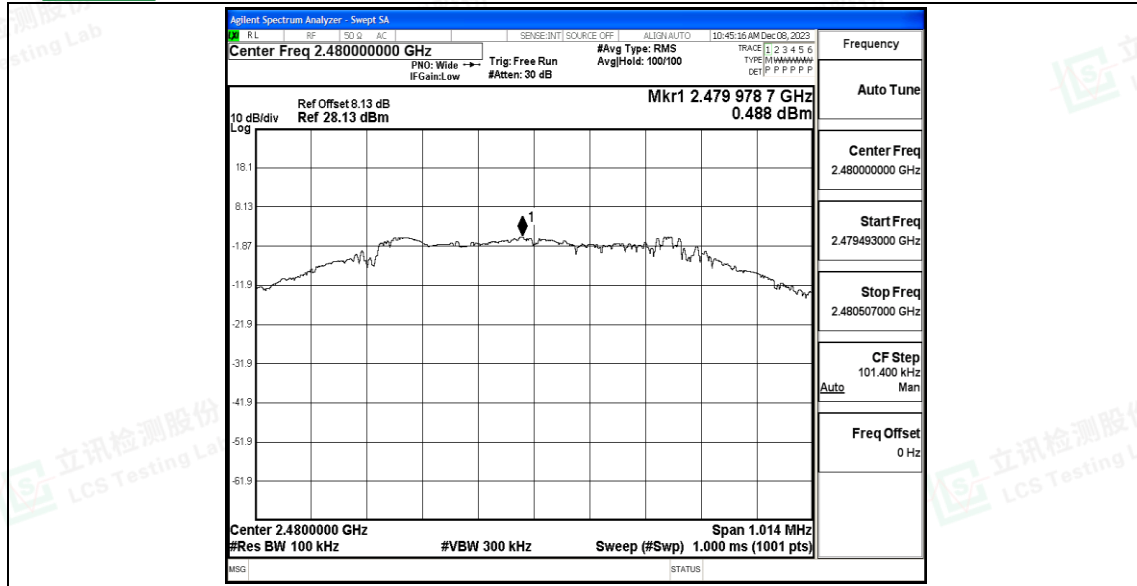
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE	BT Ant	2402	2402.00	0.56
		2440	2440.00	1.34
		2480	2479.98	0.49





Test Graphs







B.6 Duty Cycle

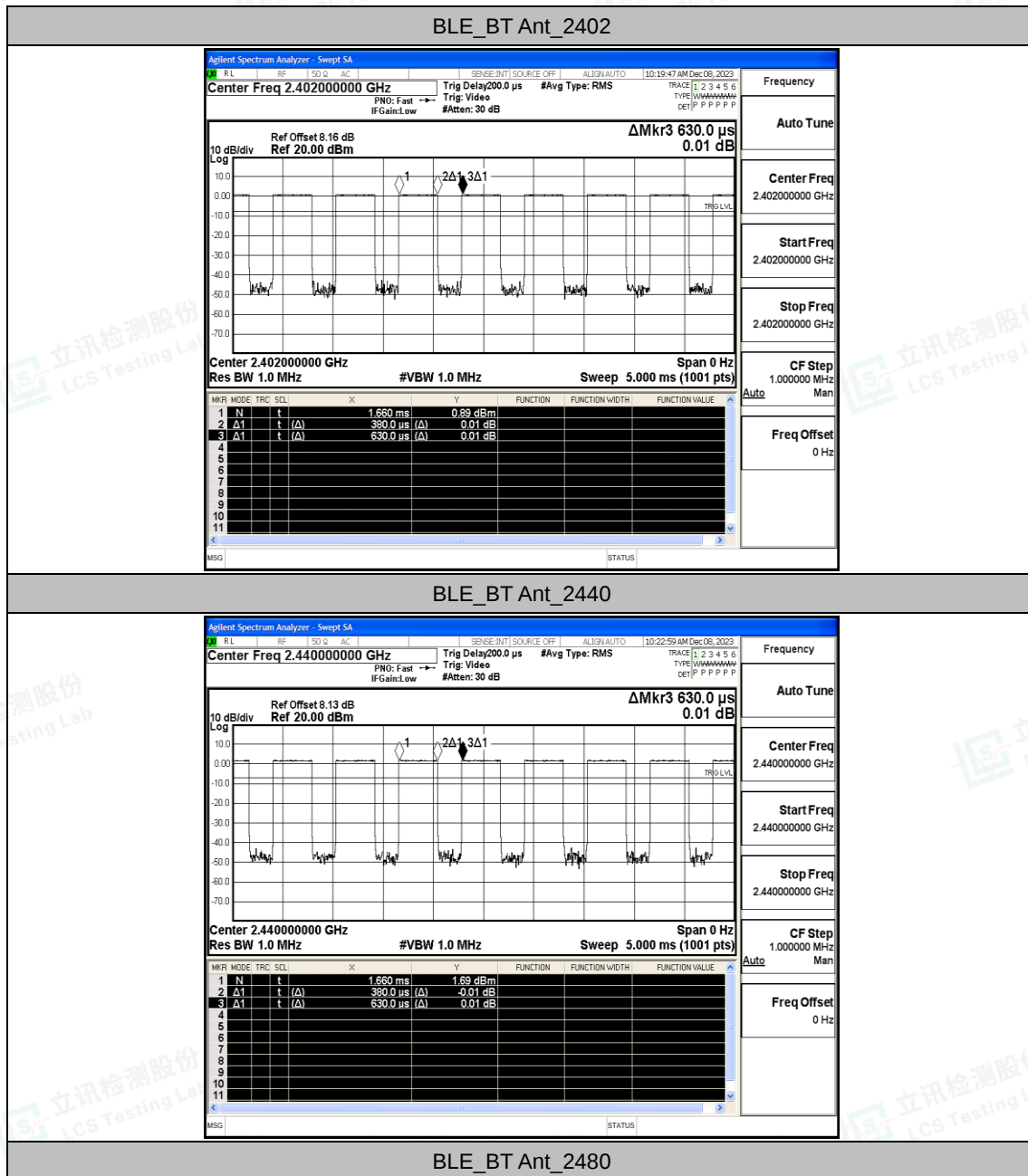
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE	BT Ant	2402	0.38	0.63	60.32	2.20	2.63
		2440	0.38	0.63	60.32	2.20	2.63
		2480	0.38	0.63	60.32	2.20	2.63





Test Graphs

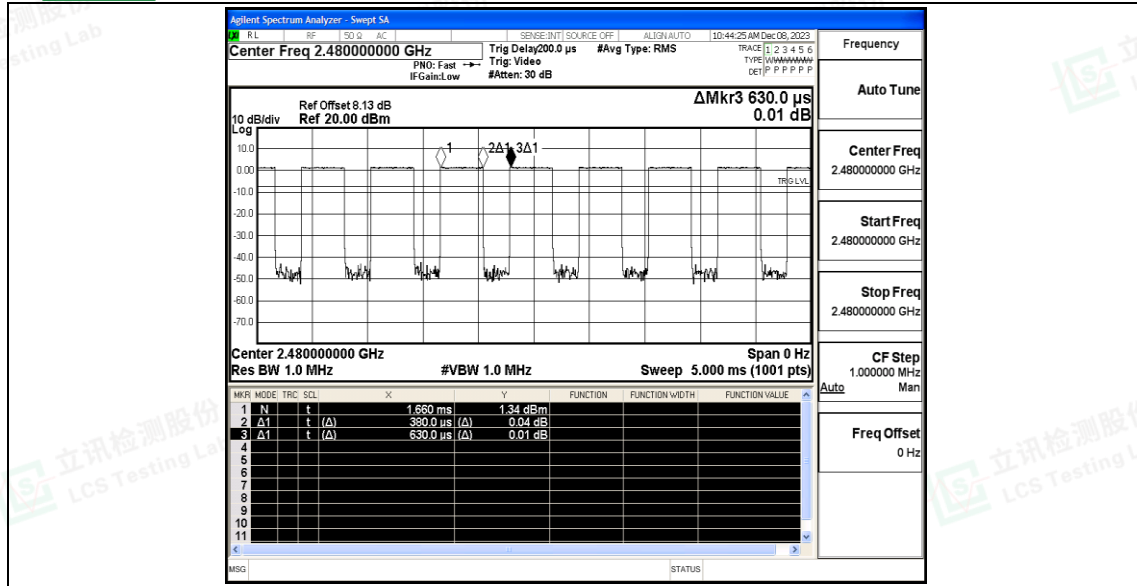


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	BT Ant	Low	2402	AV	2310.000	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2384.315	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2390.000	-48.32	≤-41.20	46.88	≤54	PASS
				Peak	2310.000	-41.69	≤-21.20	53.51	≤74	PASS
				Peak	2360.585	-37.92	≤-21.20	57.28	≤74	PASS
				Peak	2390.000	-41.89	≤-21.20	53.31	≤74	PASS
		High	2480	AV	2483.500	-47.6	≤-41.20	47.60	≤54	PASS
				AV	2486.880	-47.59	≤-41.20	47.61	≤54	PASS
				AV	2500.000	-48.19	≤-41.20	47.01	≤54	PASS
				Peak	2483.500	-41.99	≤-21.20	53.21	≤74	PASS
				Peak	2488.560	-39.46	≤-21.20	55.74	≤74	PASS
				Peak	2500.000	-42.66	≤-21.20	52.54	≤74	PASS

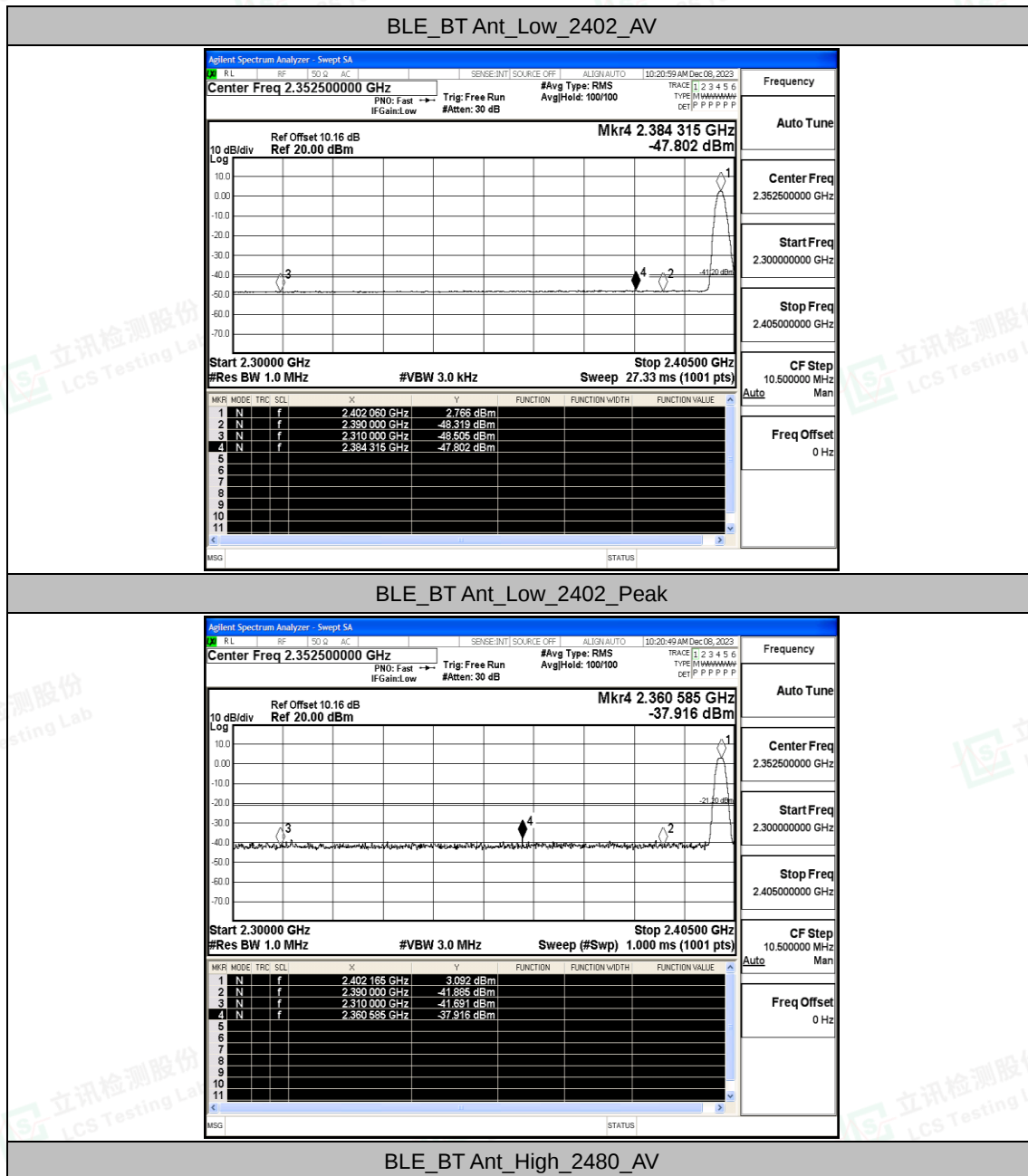
Note:

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

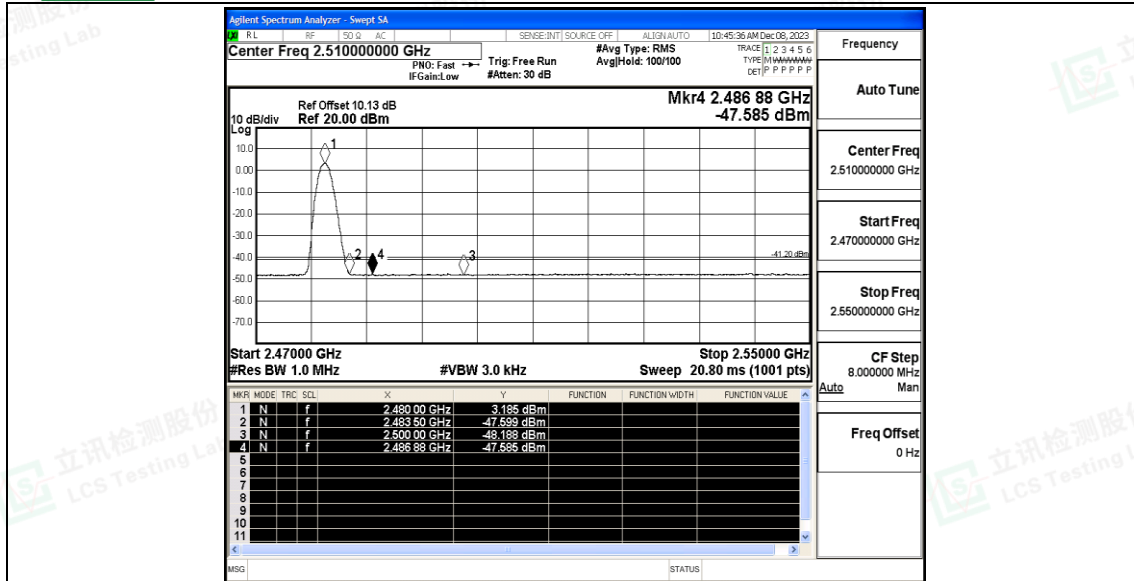


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BLE_BT Ant_High_2480_Peak

