



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Soundbar Speaker

Test Model: HT800

Environmental Conditions

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



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A.1 DTS Bandwidth

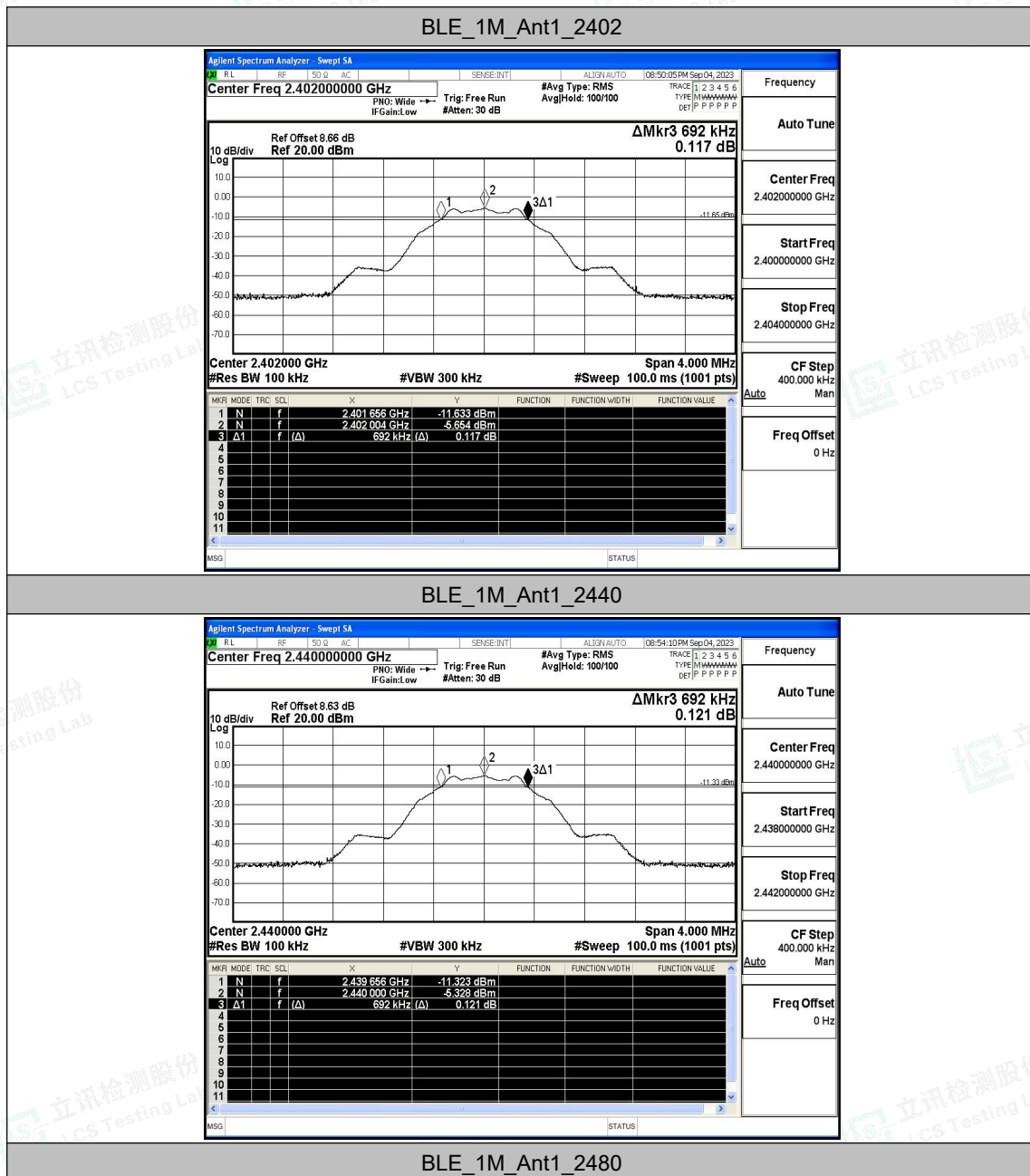
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.656	2402.348	0.5	PASS
		2440	0.692	2439.656	2440.348	0.5	PASS
		2480	0.688	2479.660	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.428	2402.580	0.5	PASS
		2440	1.148	2439.432	2440.580	0.5	PASS
		2480	1.148	2479.432	2480.580	0.5	PASS





Test Graphs

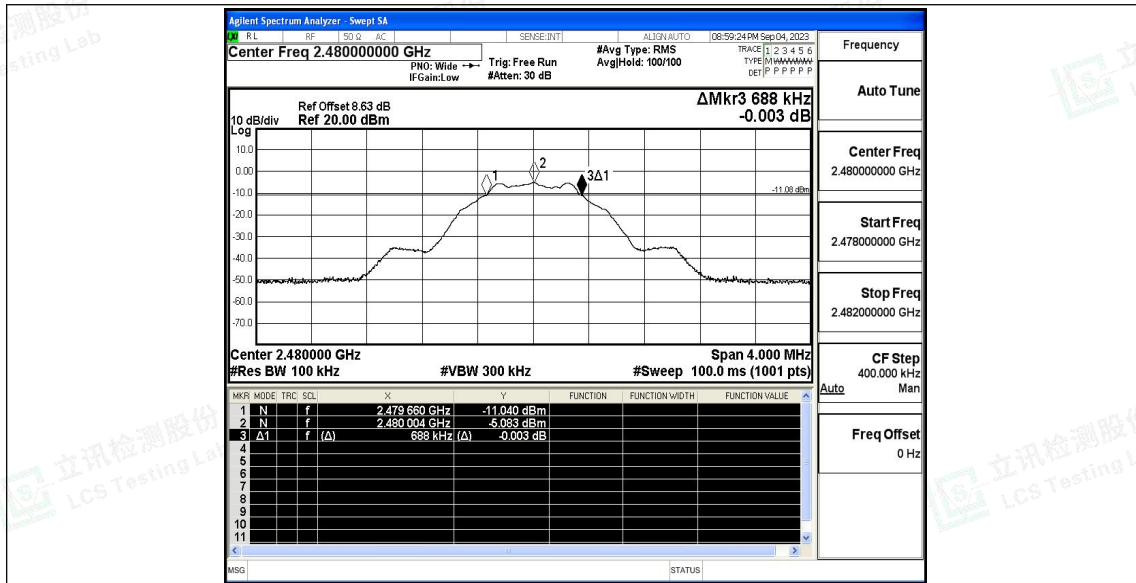


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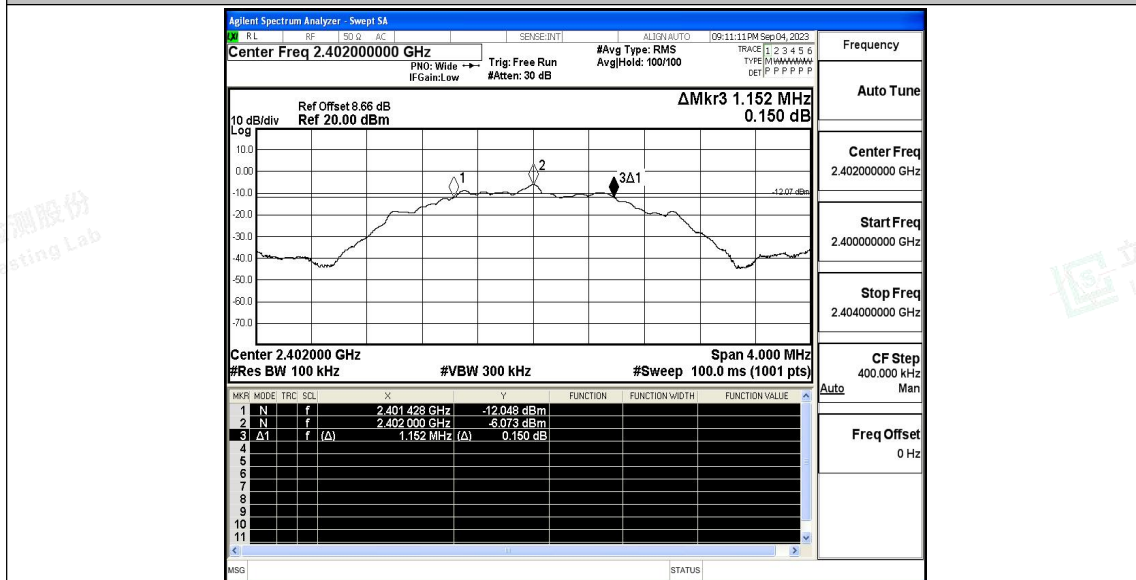
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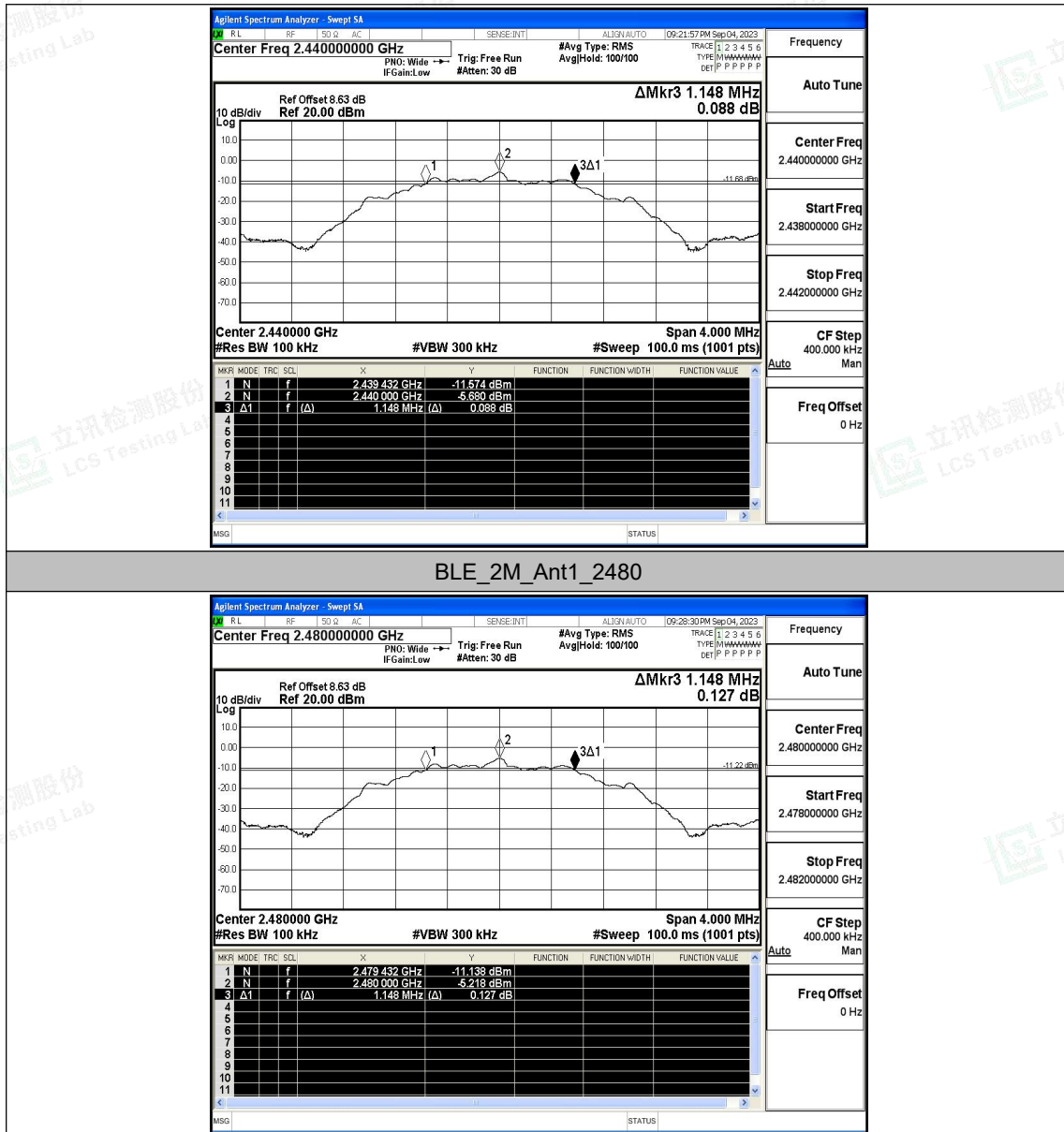


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440







A.2 Maximum conducted output power

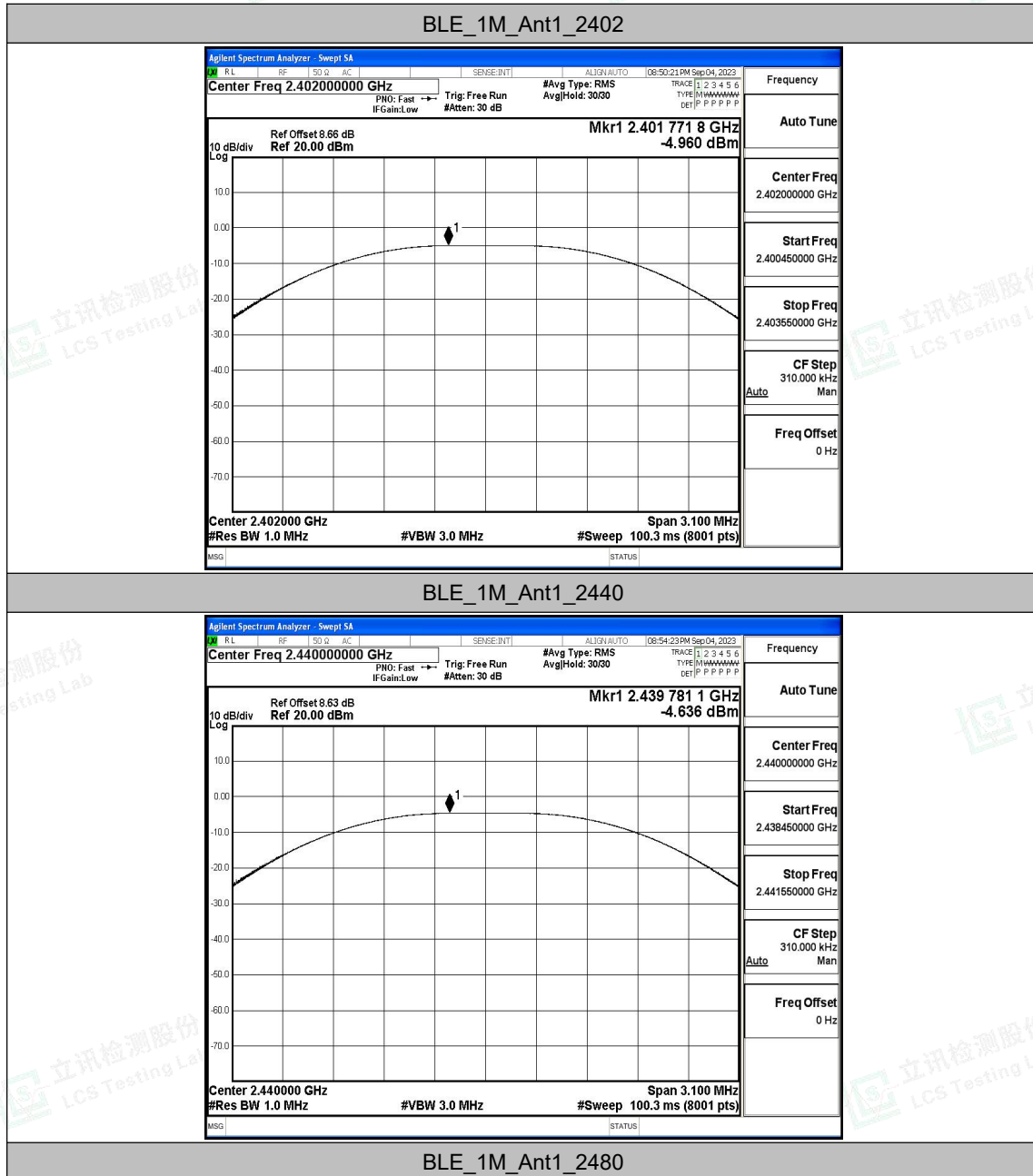
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.96	≤30	PASS
		2440	-4.64	≤30	PASS
		2480	-4.40	≤30	PASS
BLE_2M	Ant1	2402	-5.17	≤30	PASS
		2440	-4.84	≤30	PASS
		2480	-4.36	≤30	PASS





Test Graphs

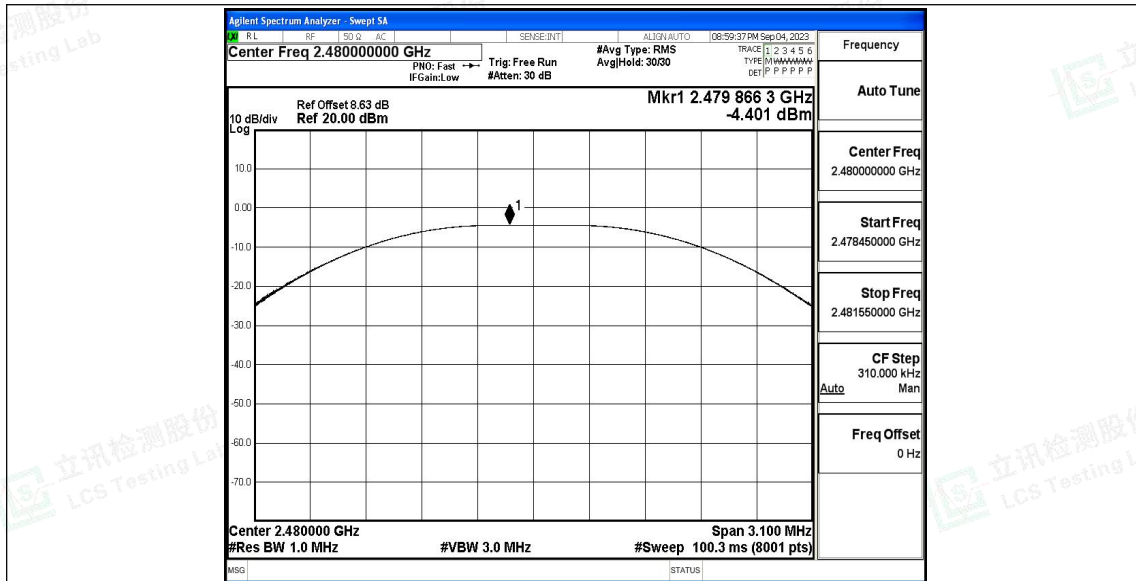


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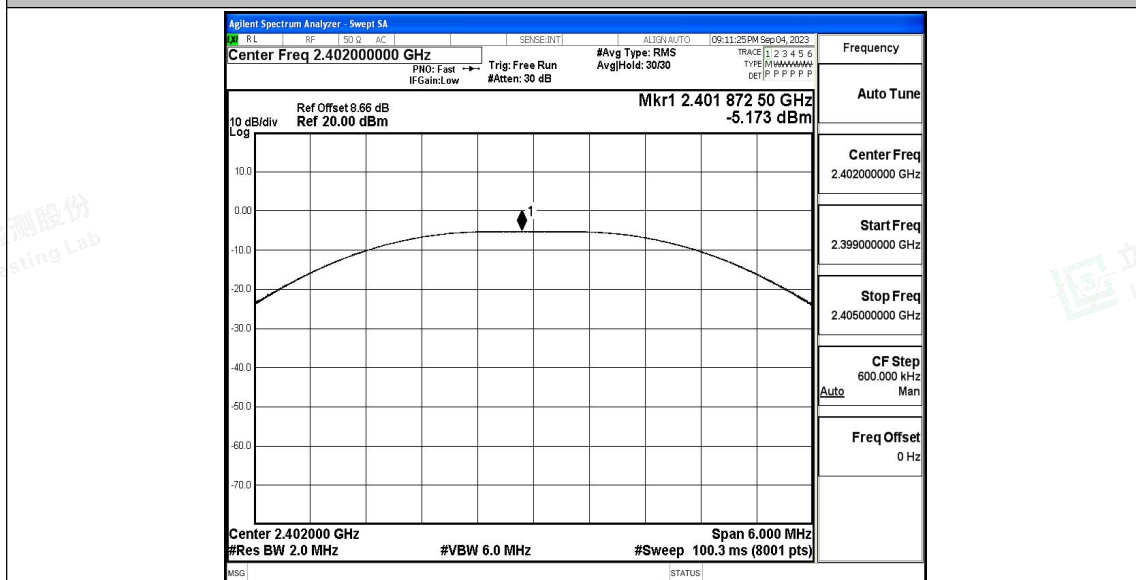
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

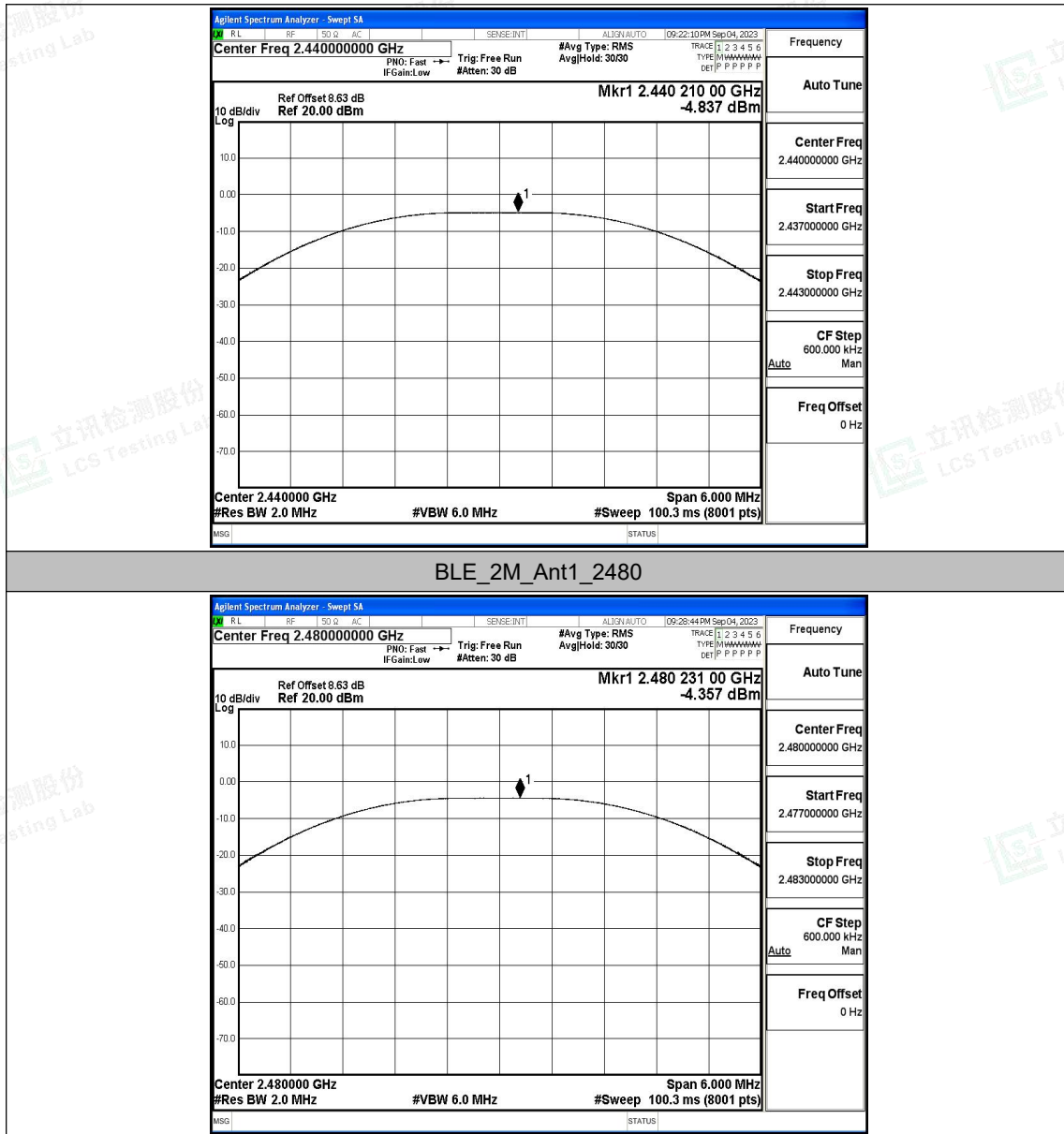


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A.3 Maximum power spectral density

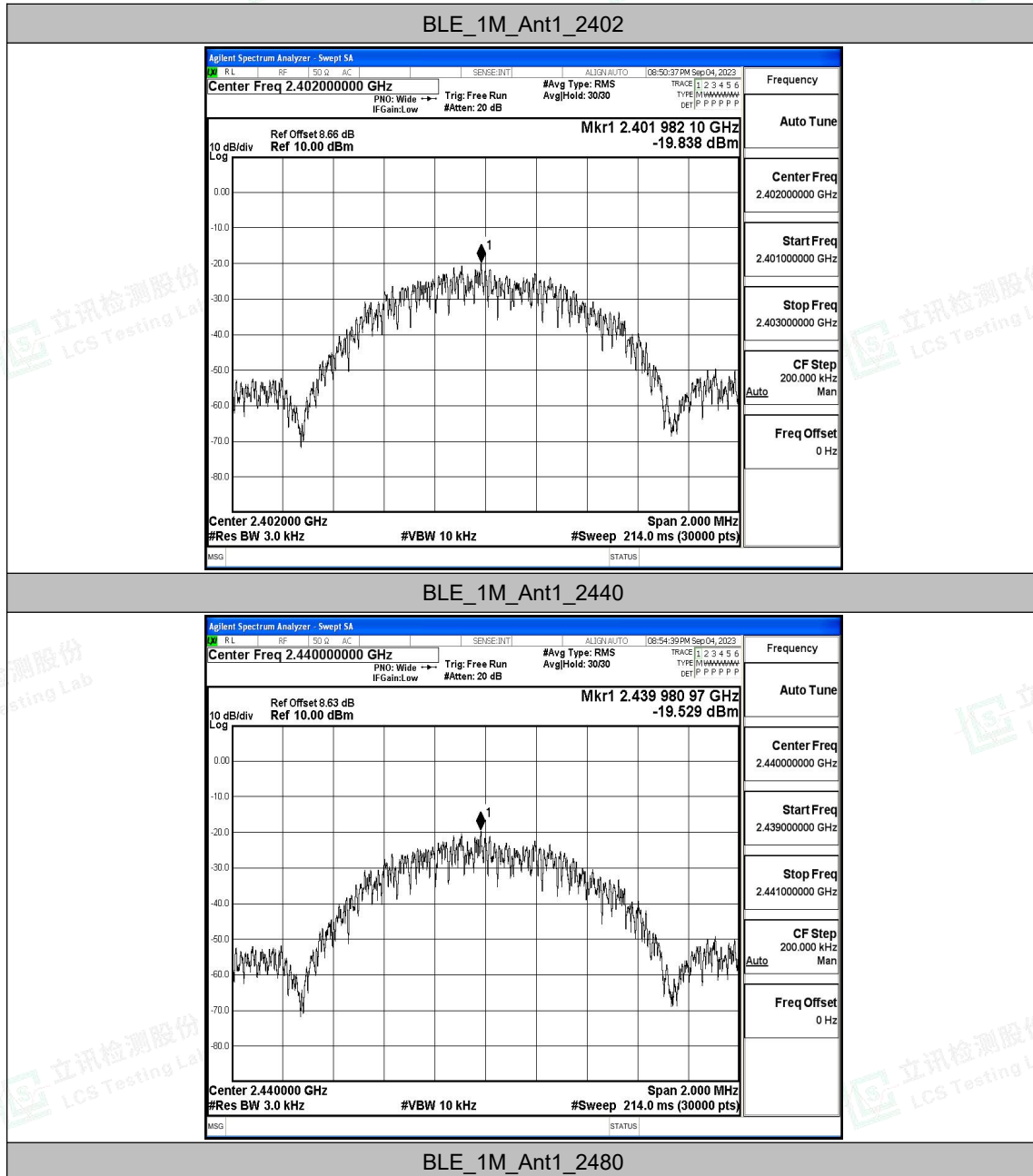
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.84	≤8.00	PASS
		2440	-19.53	≤8.00	PASS
		2480	-19.32	≤8.00	PASS
BLE_2M	Ant1	2402	-22.42	≤8.00	PASS
		2440	-22.11	≤8.00	PASS
		2480	-21.66	≤8.00	PASS





Test Graphs

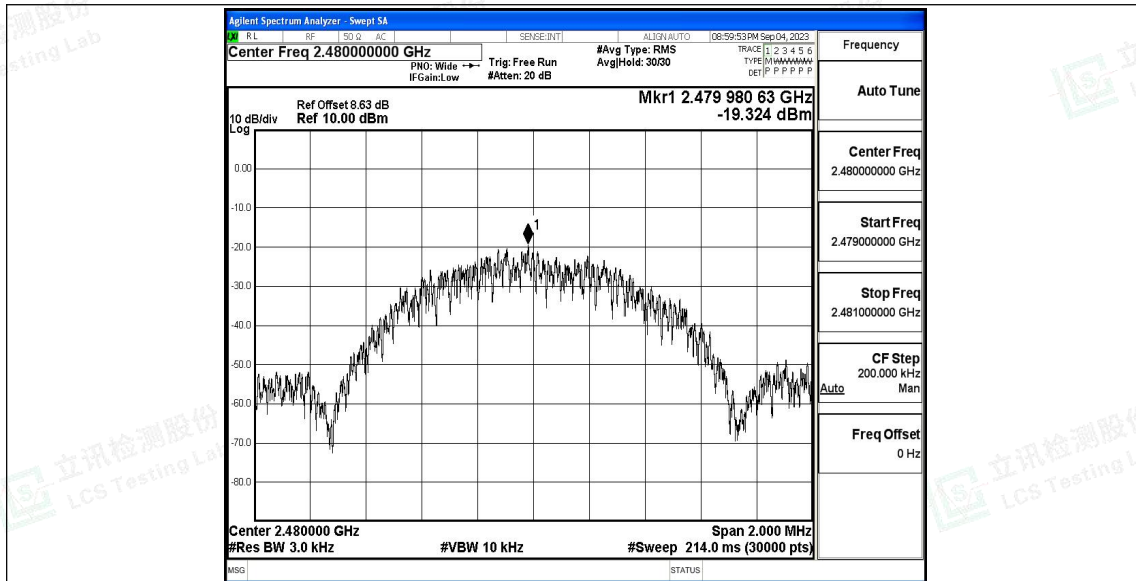


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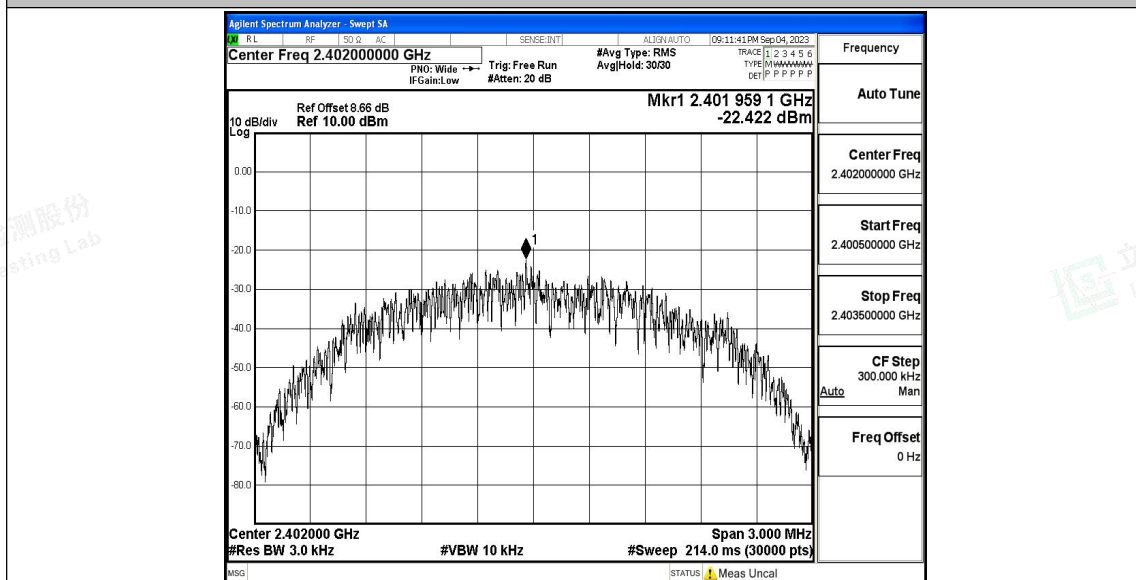
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

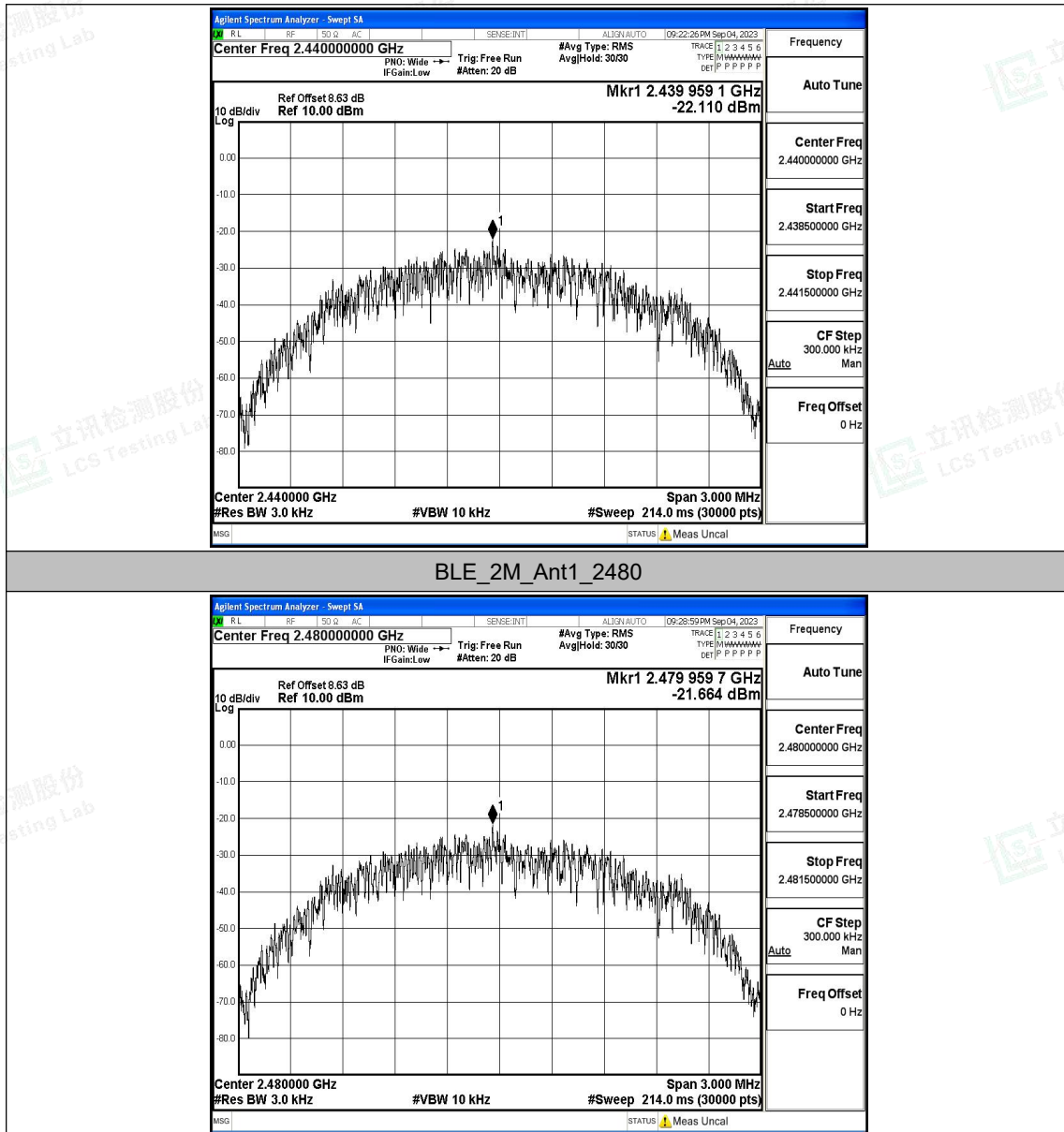


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A.4 Band edge measurements

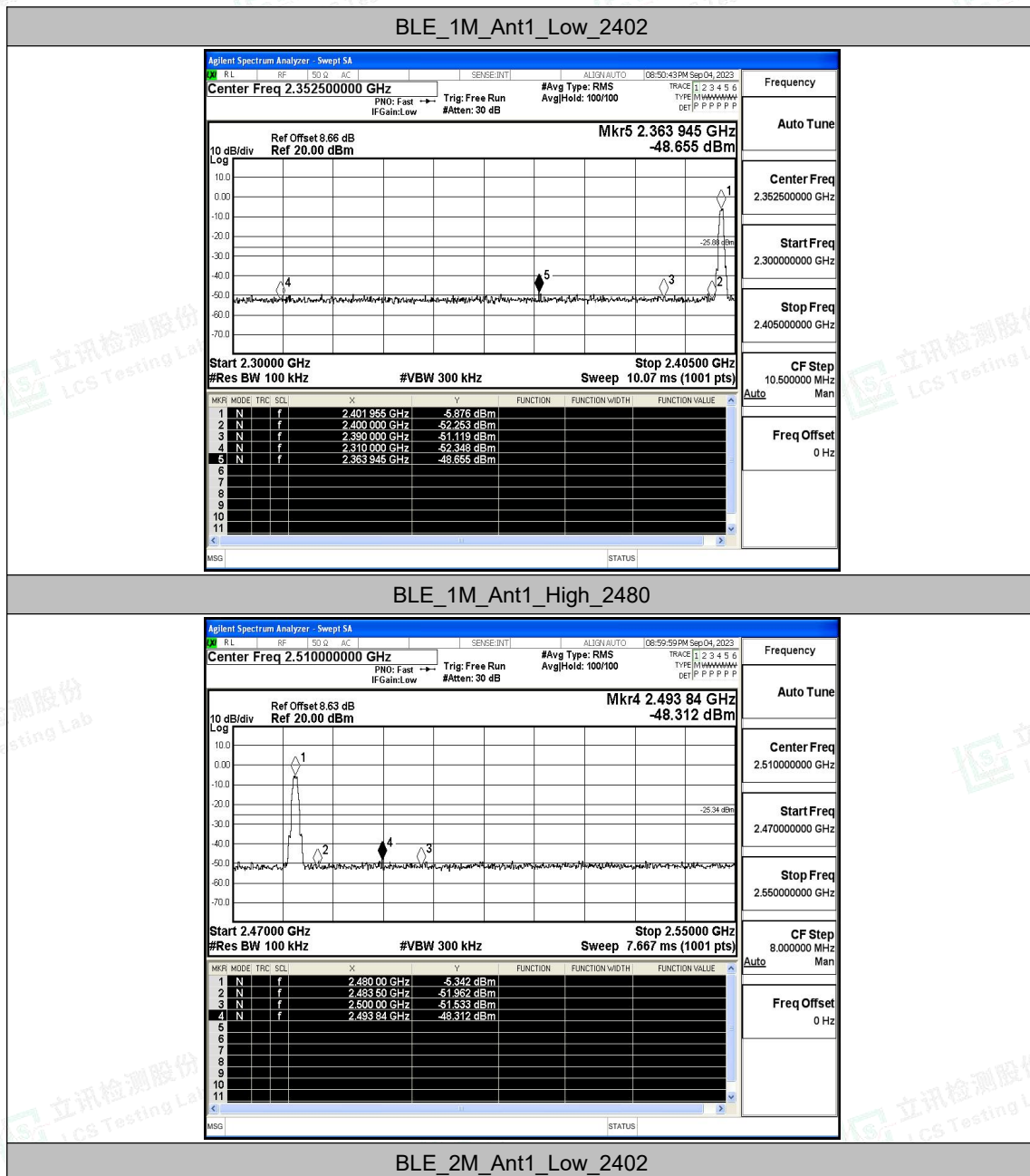
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.88	-48.66	≤ -25.88	PASS
		High	2480	-5.34	-48.31	≤ -25.34	PASS
BLE_2M	Ant1	Low	2402	-8.69	-36.64	≤ -28.69	PASS
		High	2480	-5.60	-47.13	≤ -25.6	PASS





Test Graphs

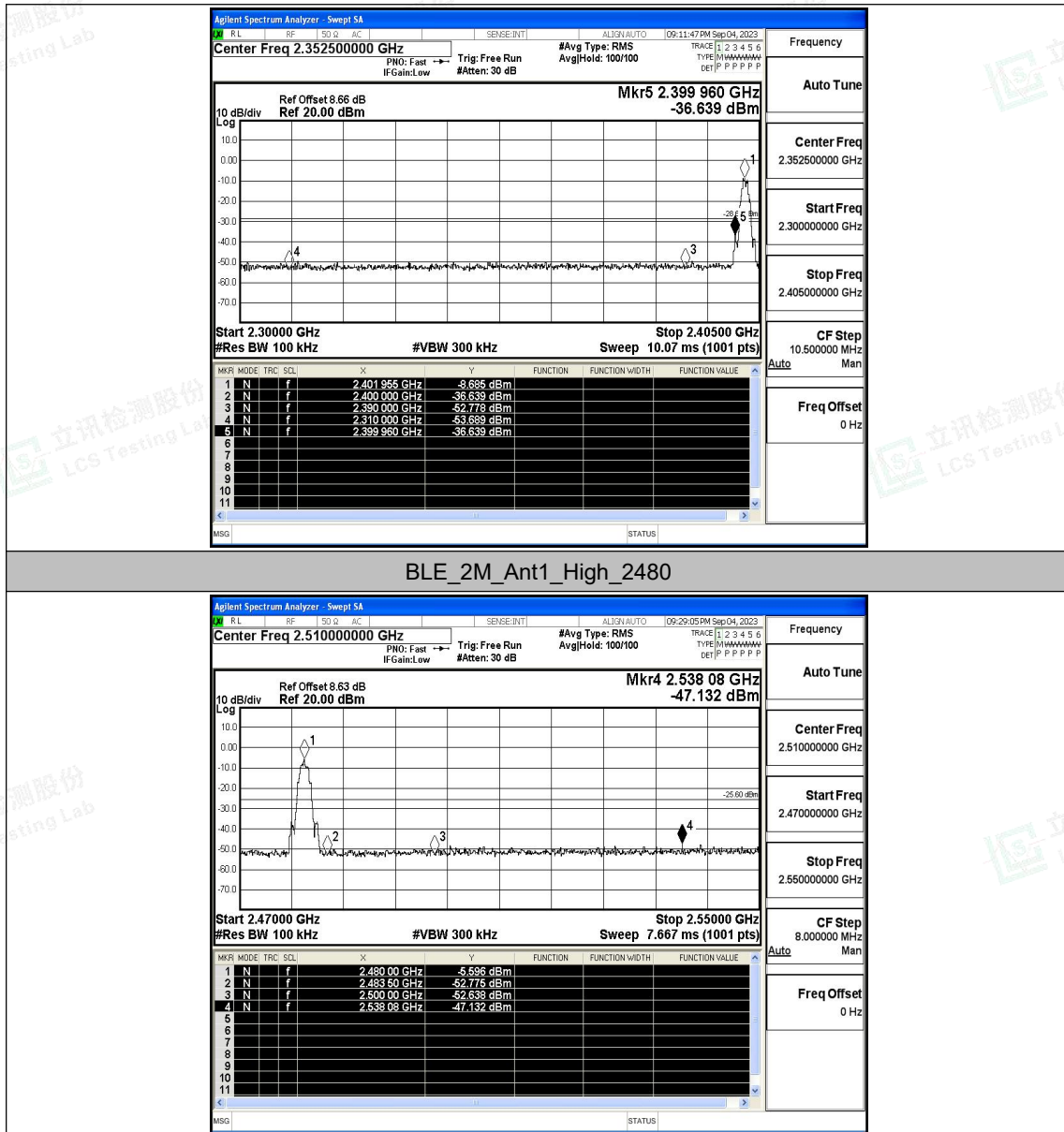


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A.5 Conducted Spurious Emission

Test Result

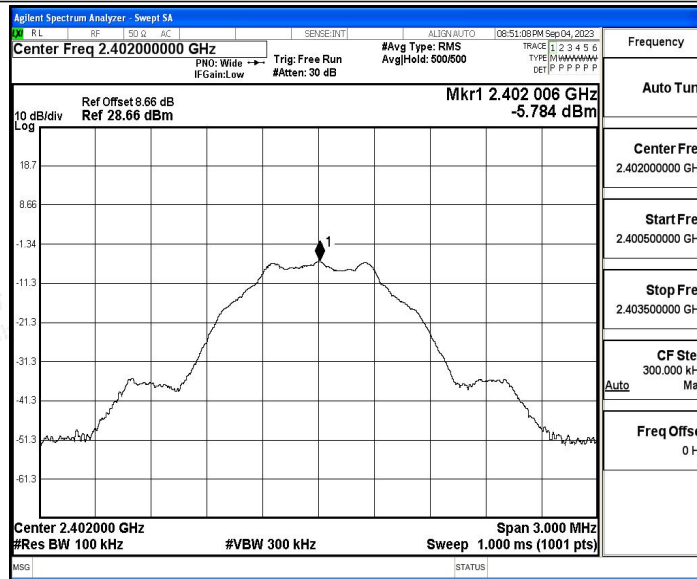
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-60.06	≤-25.78	PASS
			1000~26500	-5.78	-46.11	≤-25.78	PASS
		2440	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-60.24	≤-25.71	PASS
			1000~26500	-5.71	-45.94	≤-25.71	PASS
		2480	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-59.97	≤-25.11	PASS
			1000~26500	-5.11	-46.43	≤-25.11	PASS
BLE_2M	Ant1	2402	Reference	-6.07	-6.07	---	PASS
			30~1000	-6.07	-61.44	≤-26.07	PASS
			1000~26500	-6.07	-46.42	≤-26.07	PASS
		2440	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-60.82	≤-25.74	PASS
			1000~26500	-5.74	-46.23	≤-25.74	PASS
		2480	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-57.26	≤-25.24	PASS
			1000~26500	-5.24	-46.01	≤-25.24	PASS



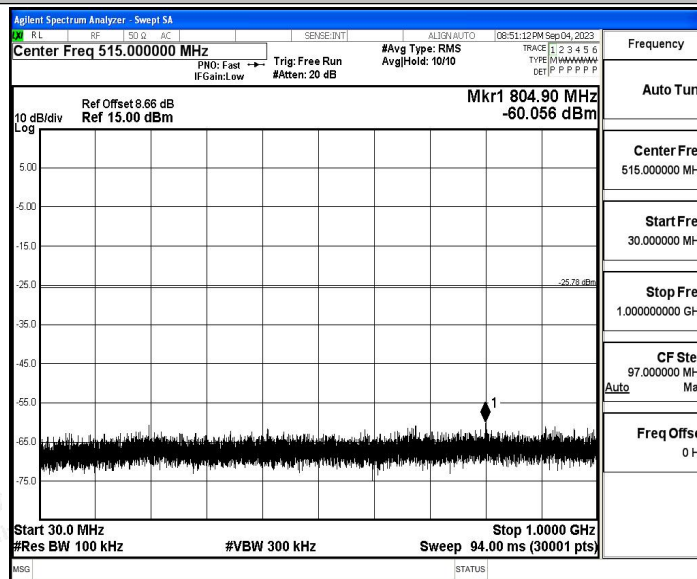


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

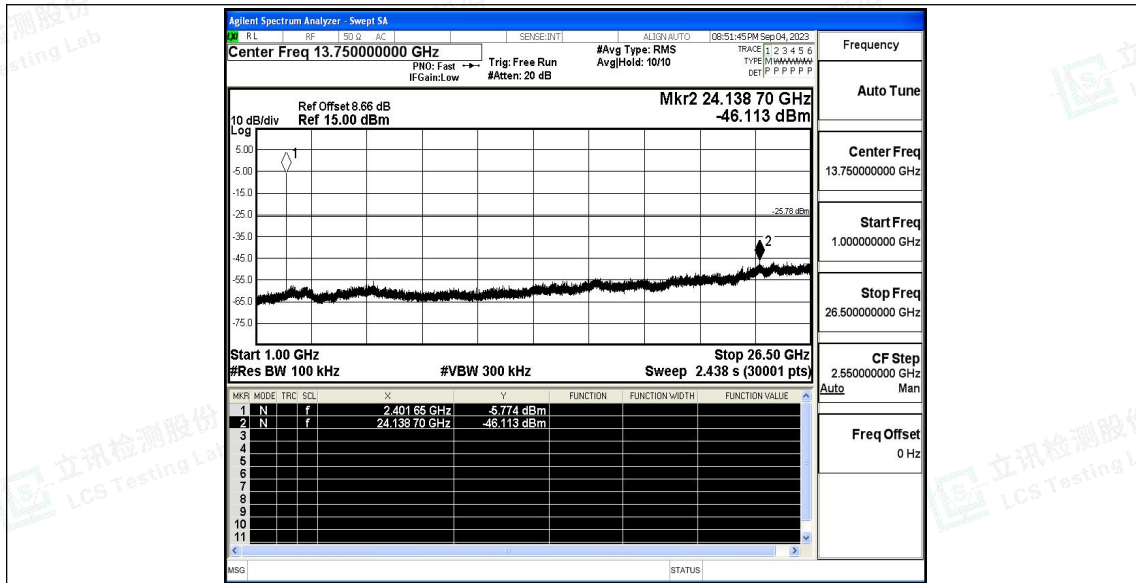


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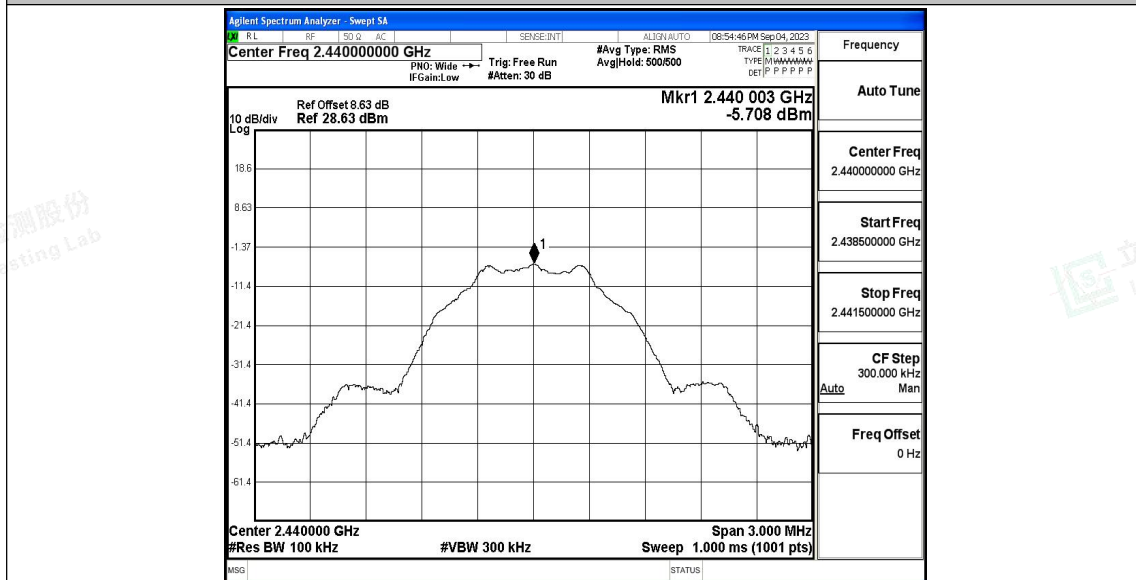
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

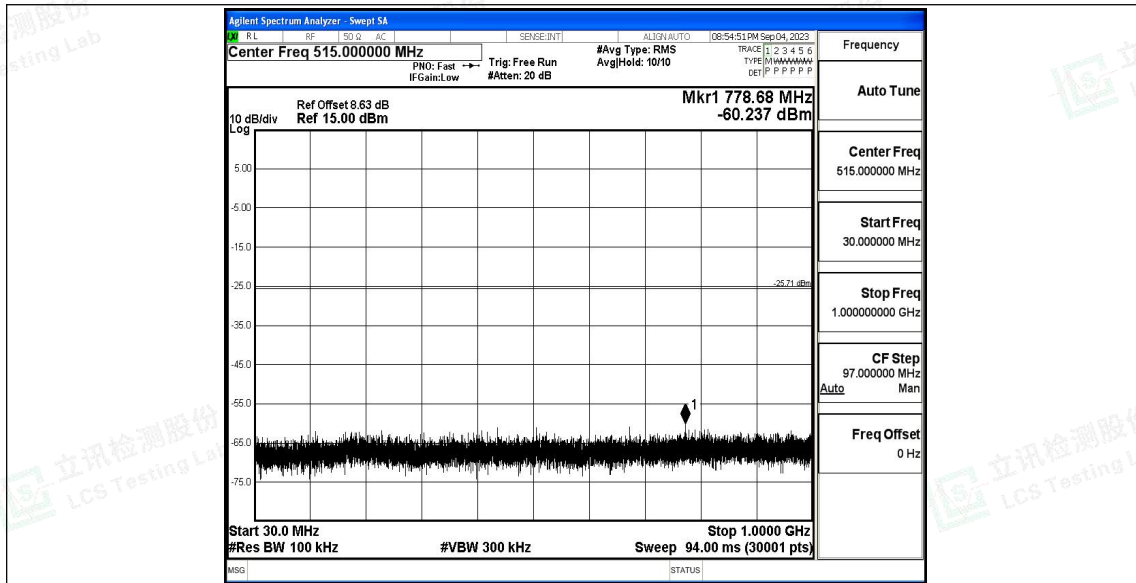


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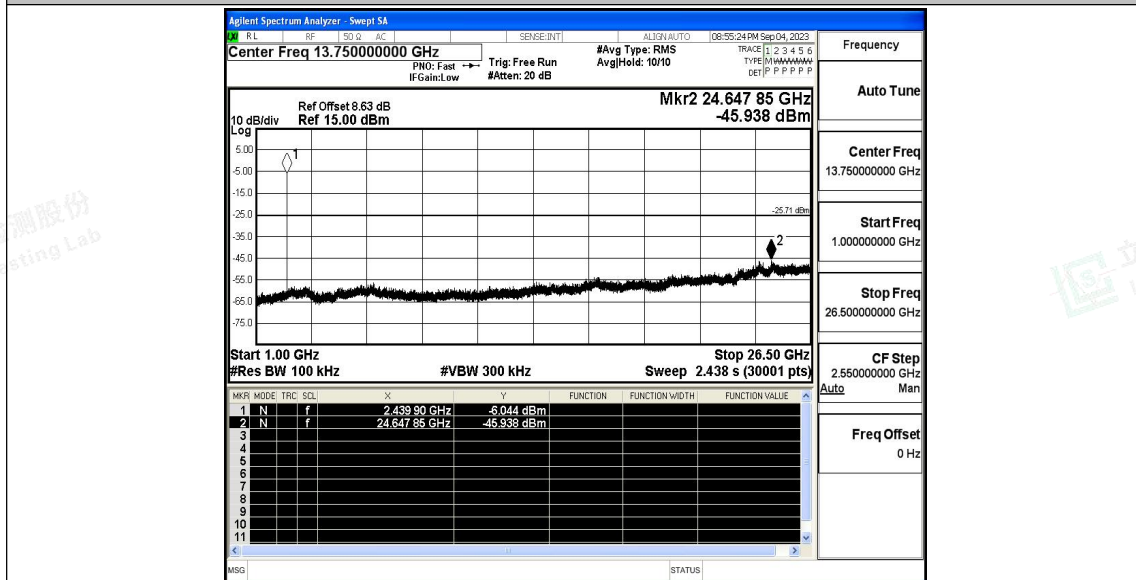
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

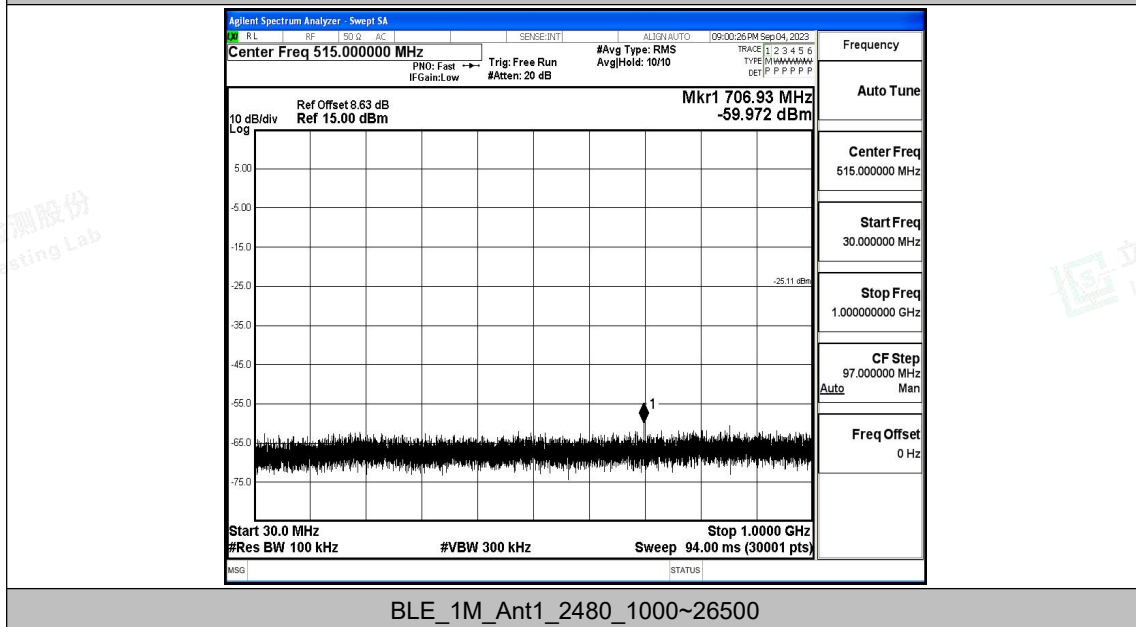
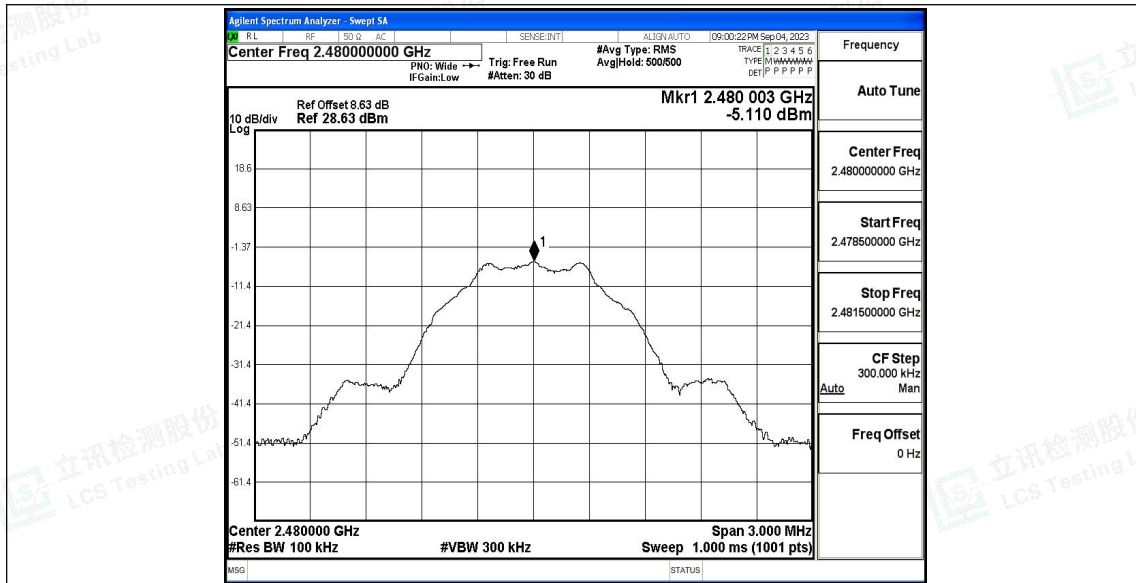


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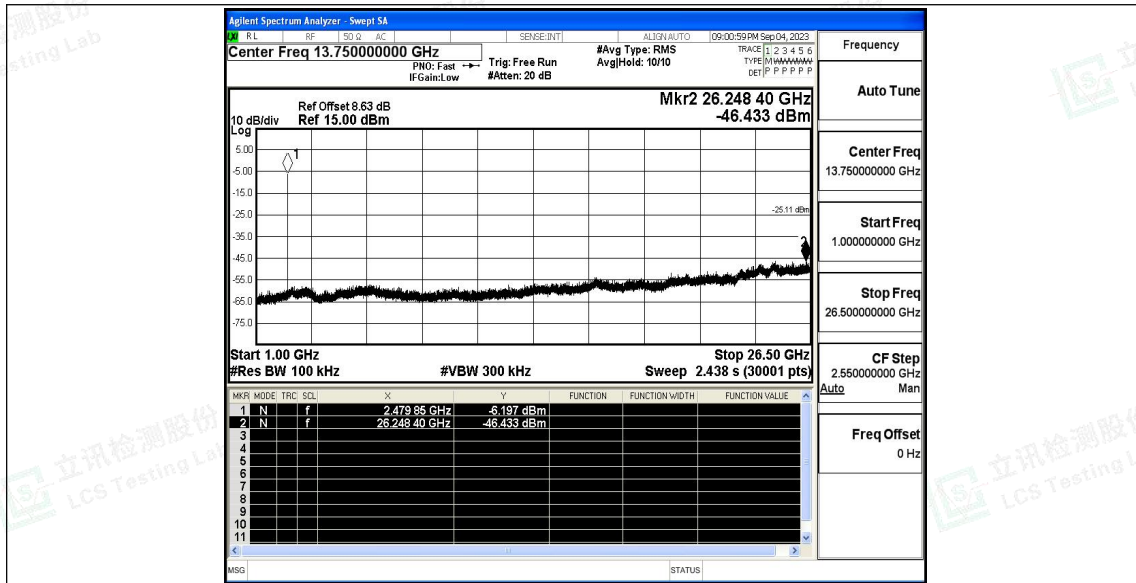


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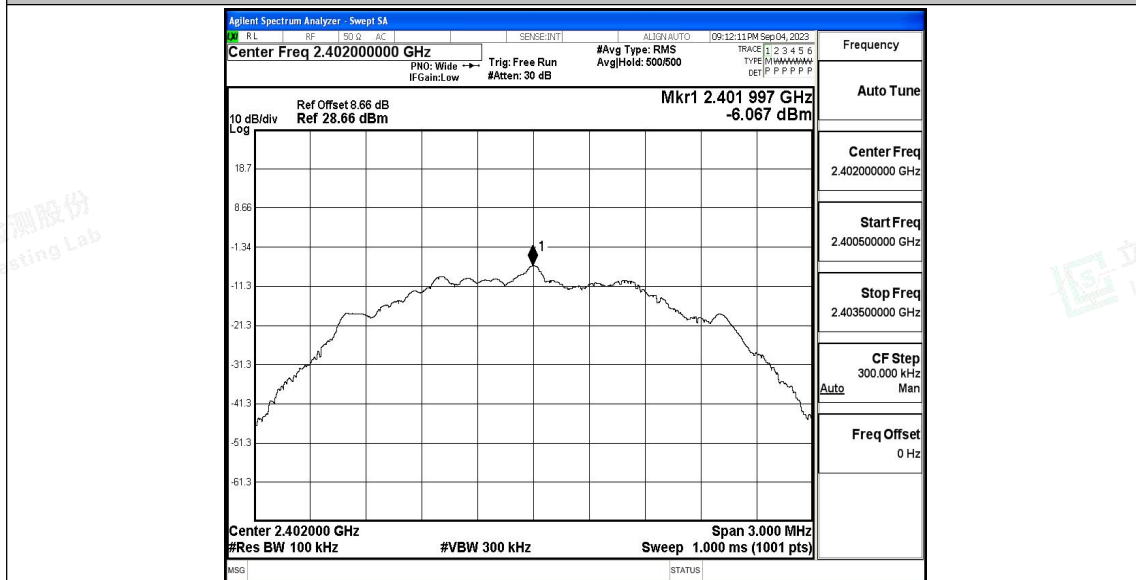
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

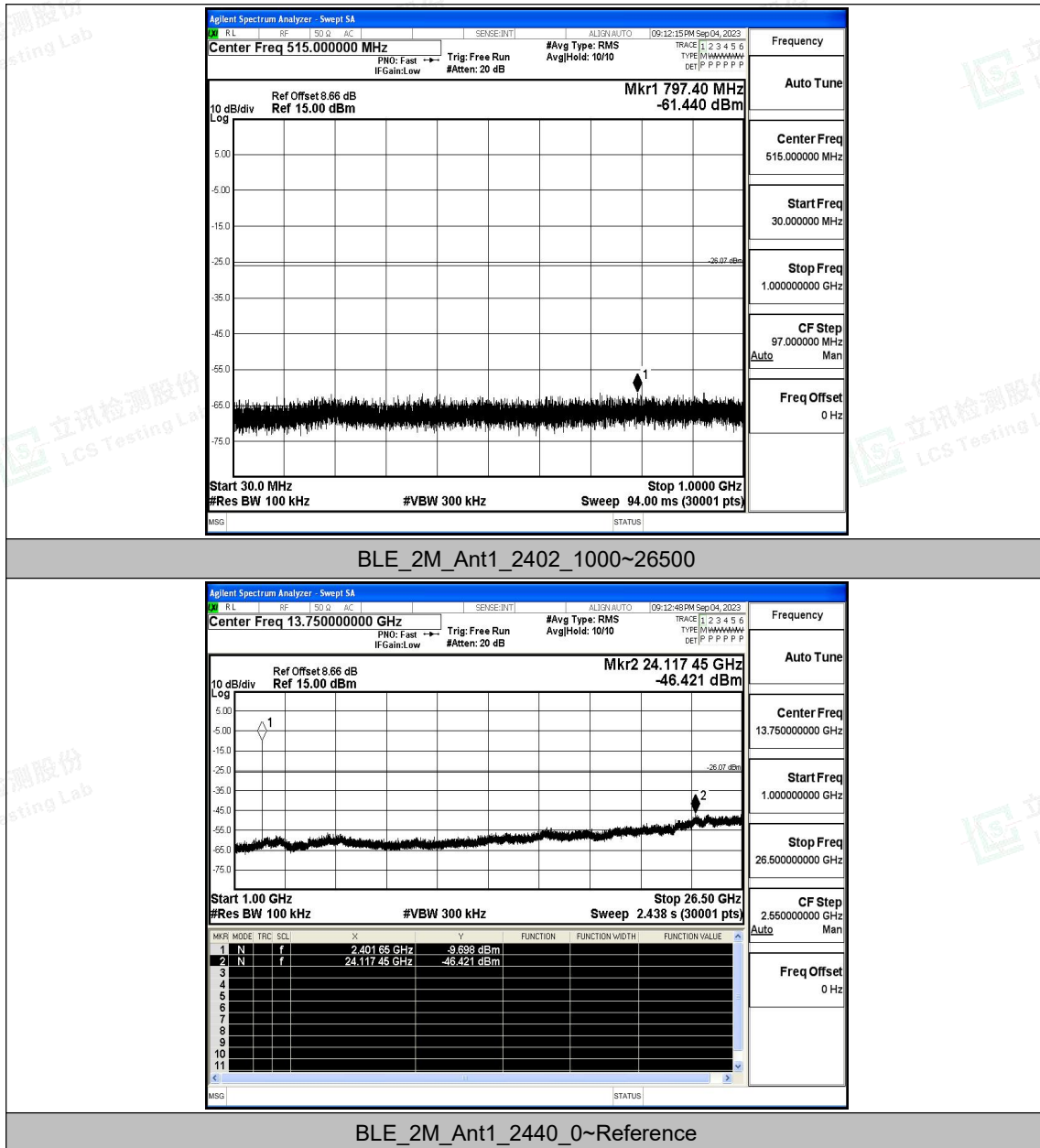


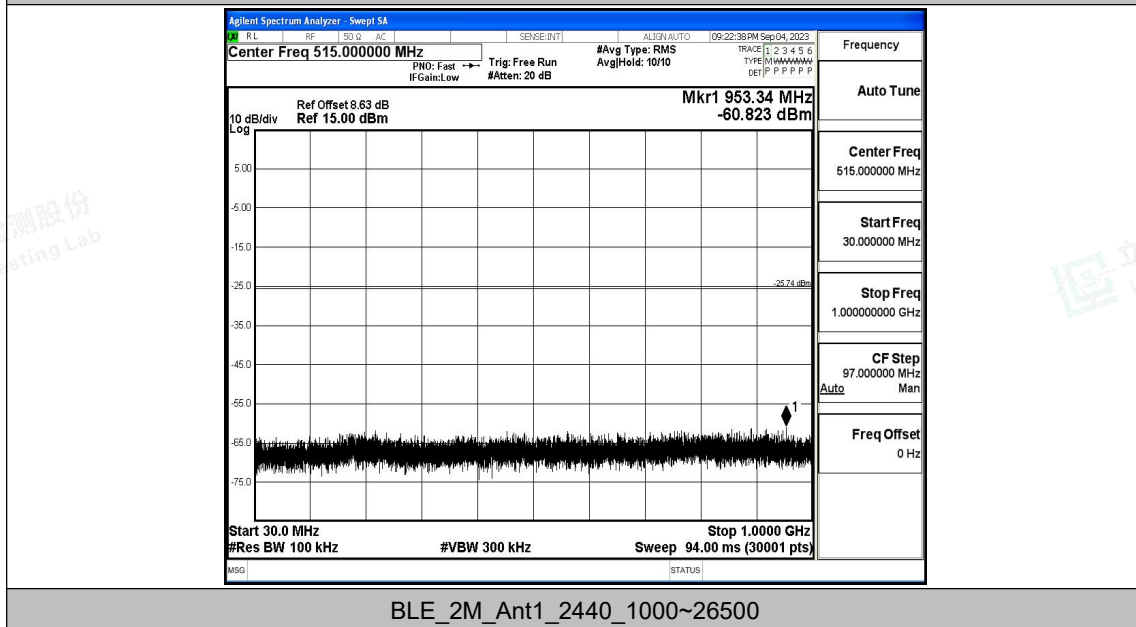
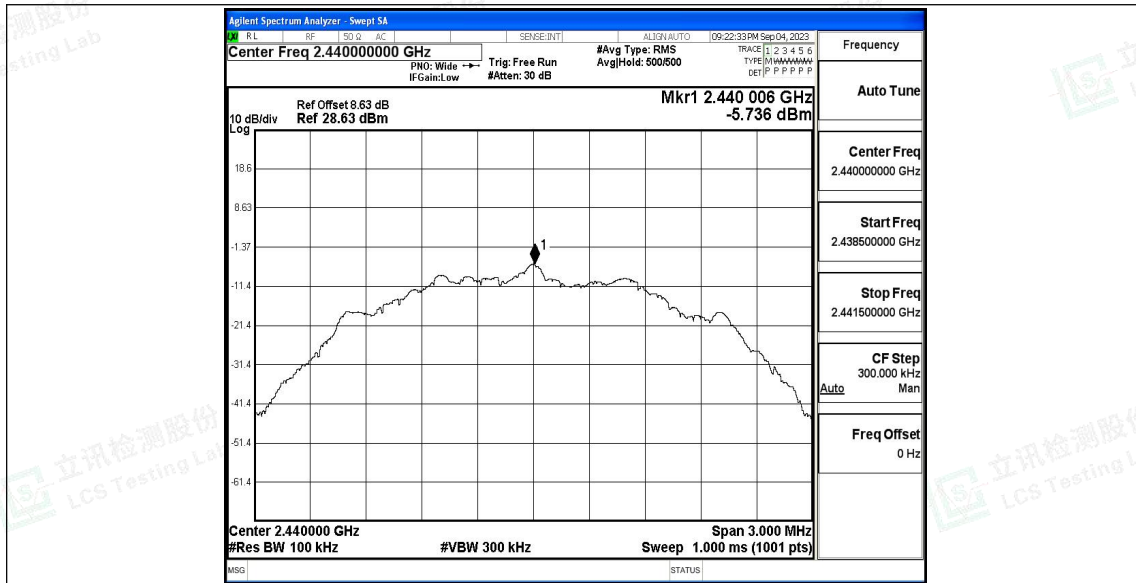
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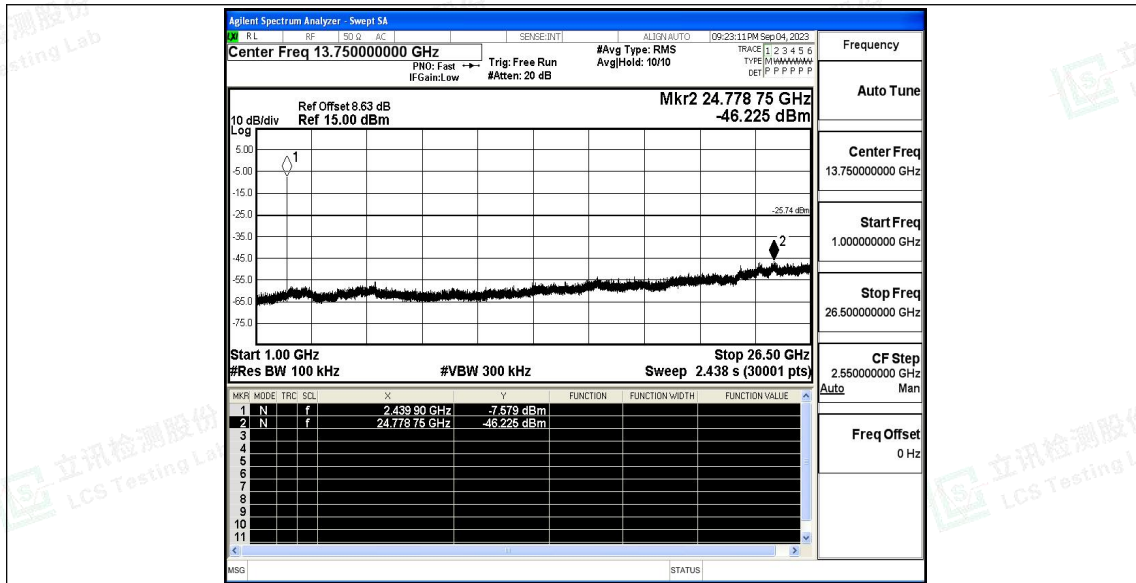
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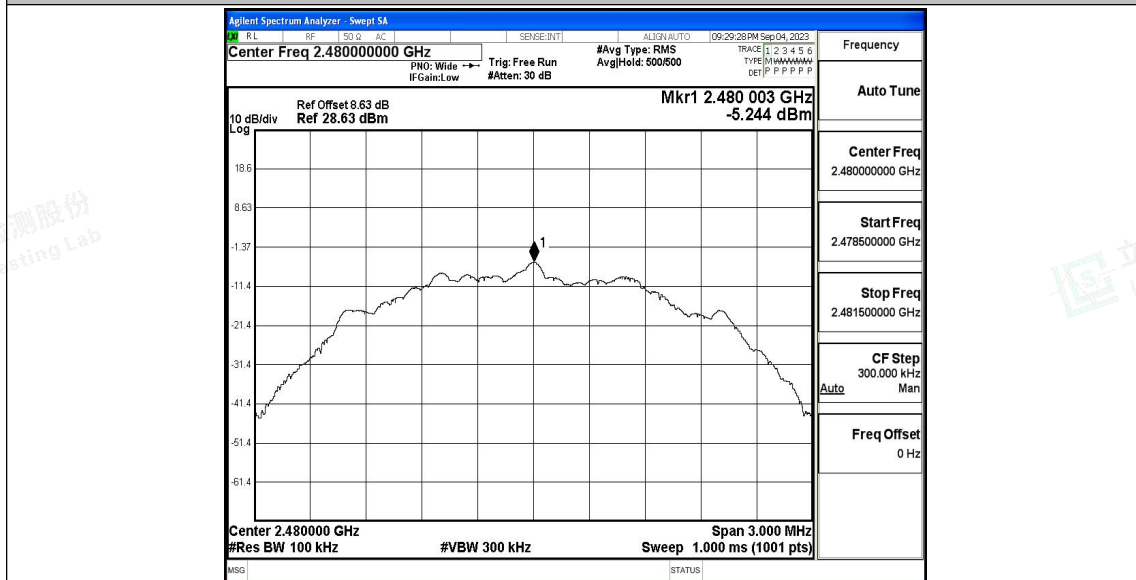
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

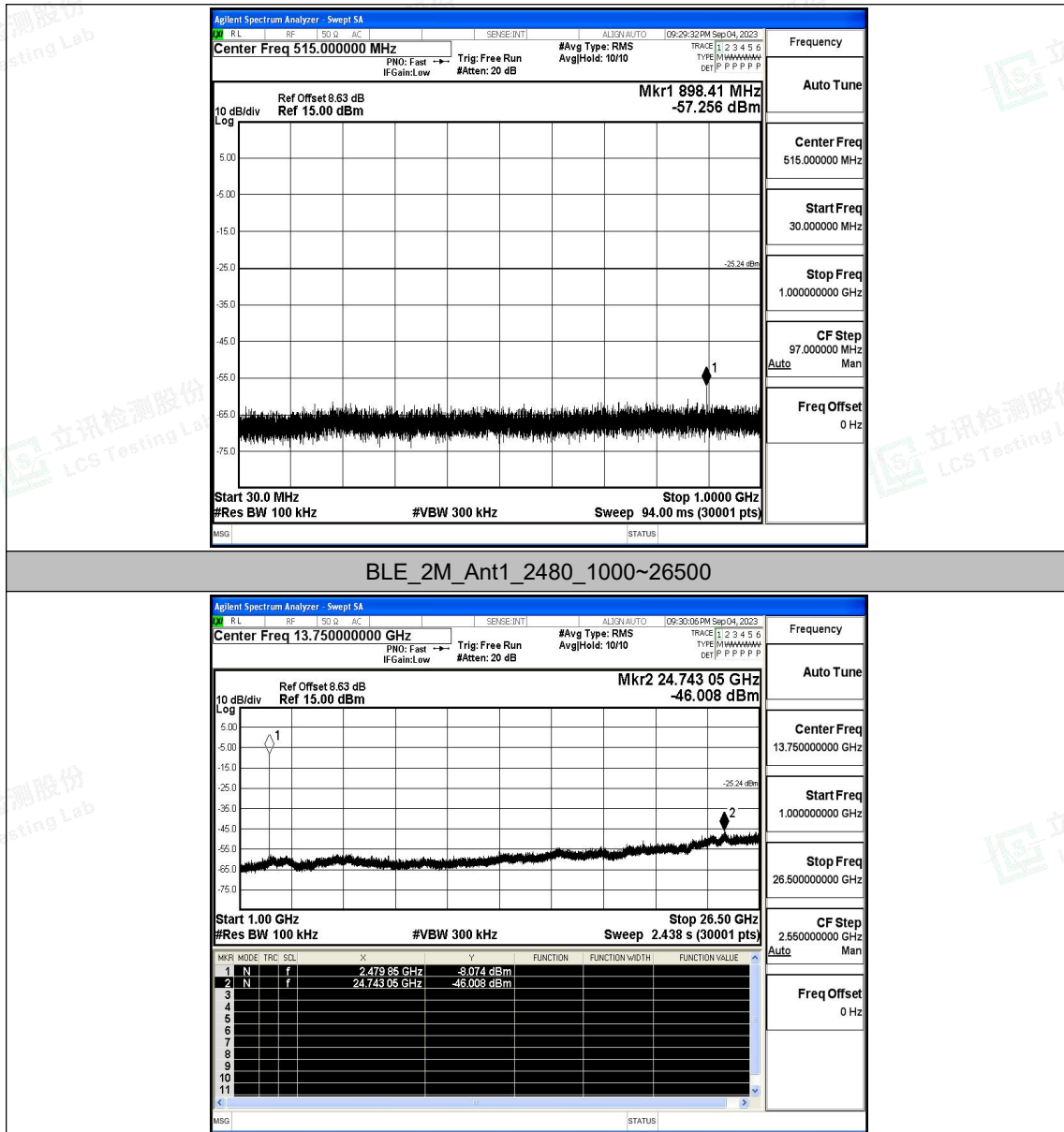


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A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
BLE_2M	Ant1	2402	0.20	0.63	0.3175	31.75	4.98	5.00	---	PASS
		2440	0.20	0.62	0.3226	32.26	4.91	5.00	---	PASS
		2480	0.20	0.63	0.3175	31.75	4.98	5.00	---	PASS



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