



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP280V2

Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





B.1 DTS Bandwidth

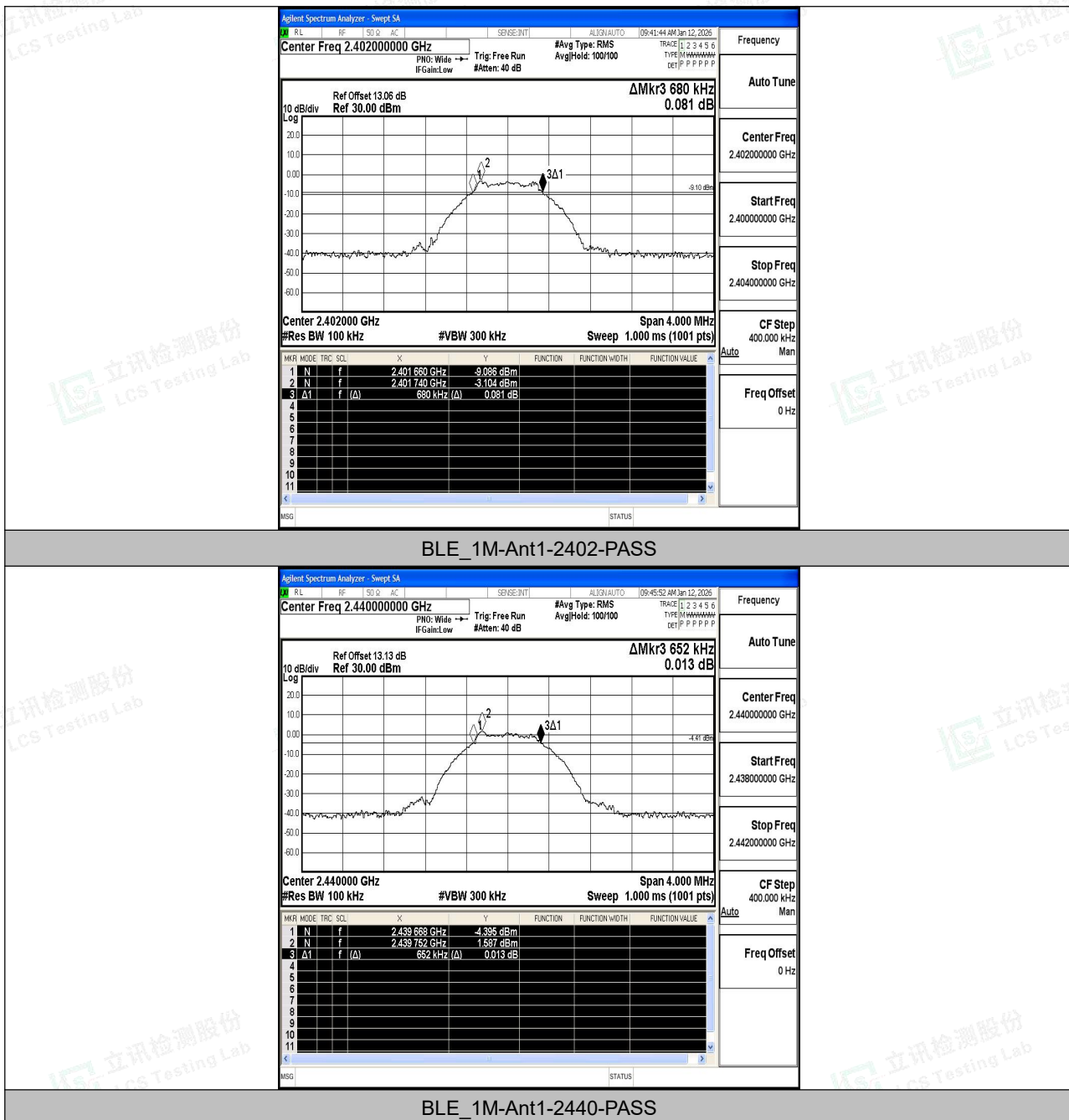
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.660	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.668	2440.320	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.672	2480.328	0.5	PASS





Test Graphs

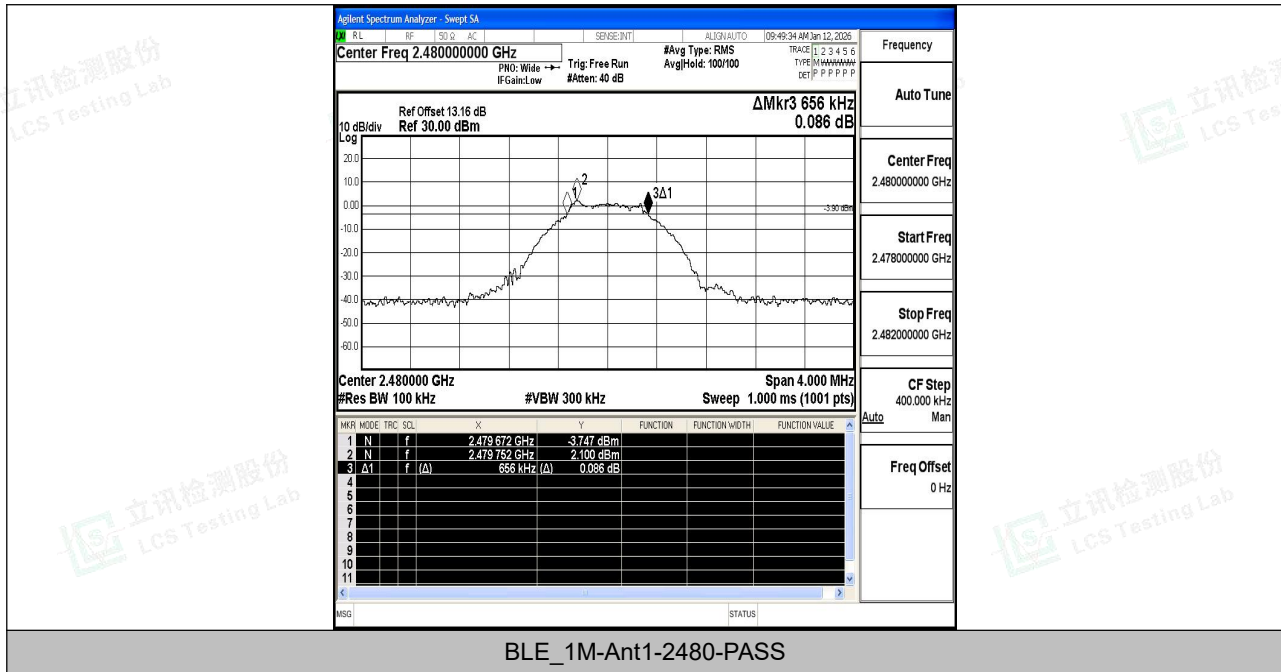


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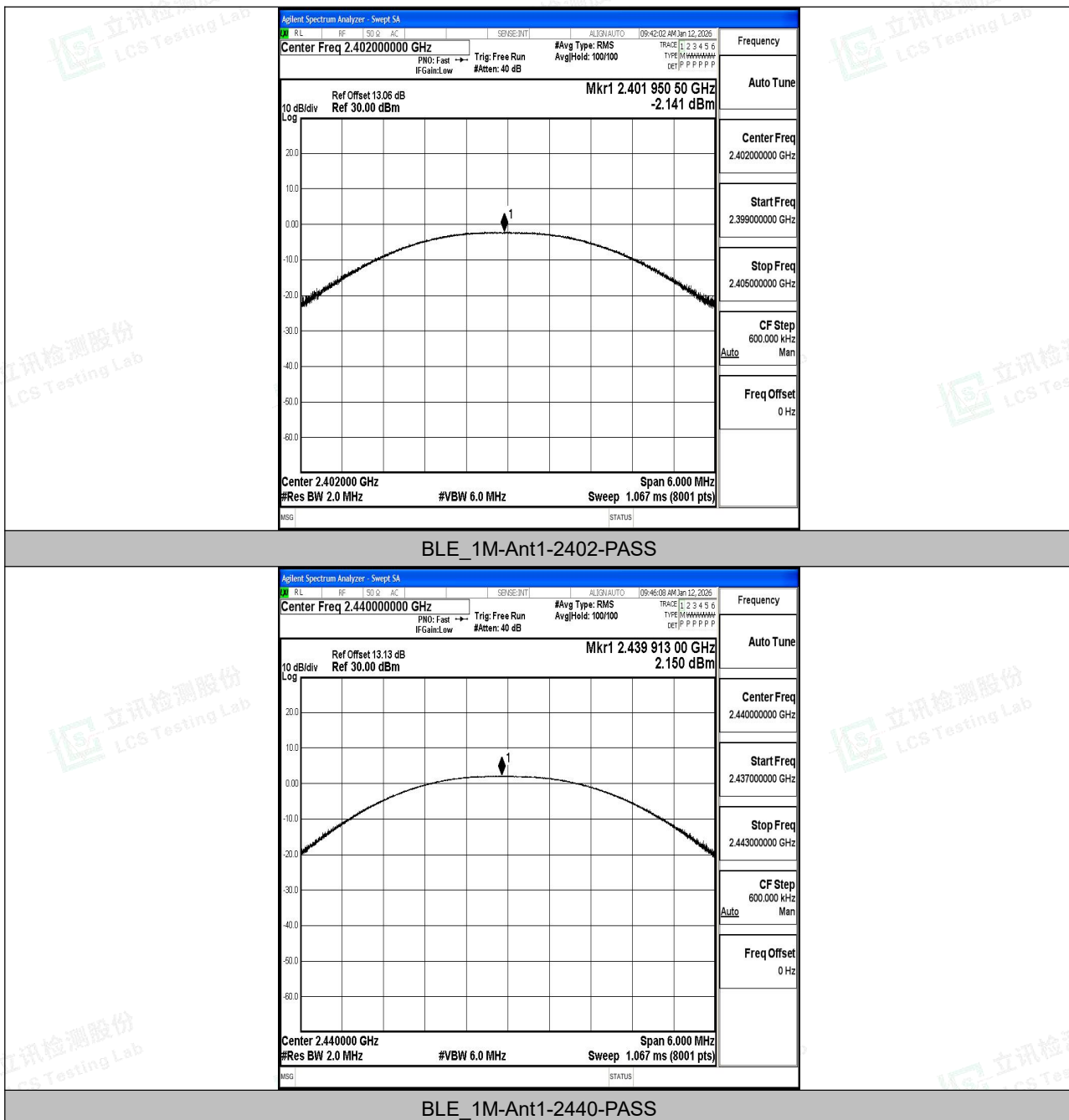


B.2 Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.14	≤30	PASS
BLE_1M	Ant1	2440	2.15	≤30	PASS
BLE_1M	Ant1	2480	2.65	≤30	PASS

Test Graphs Peak

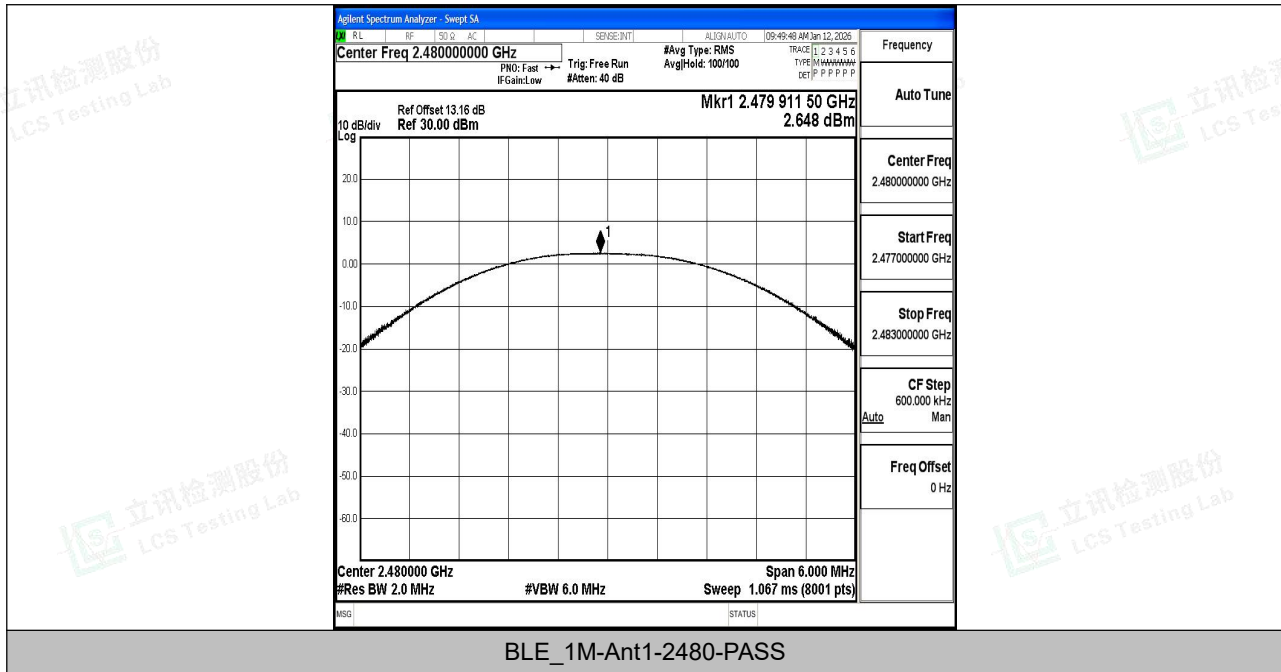


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B.3 Maximum power spectral density

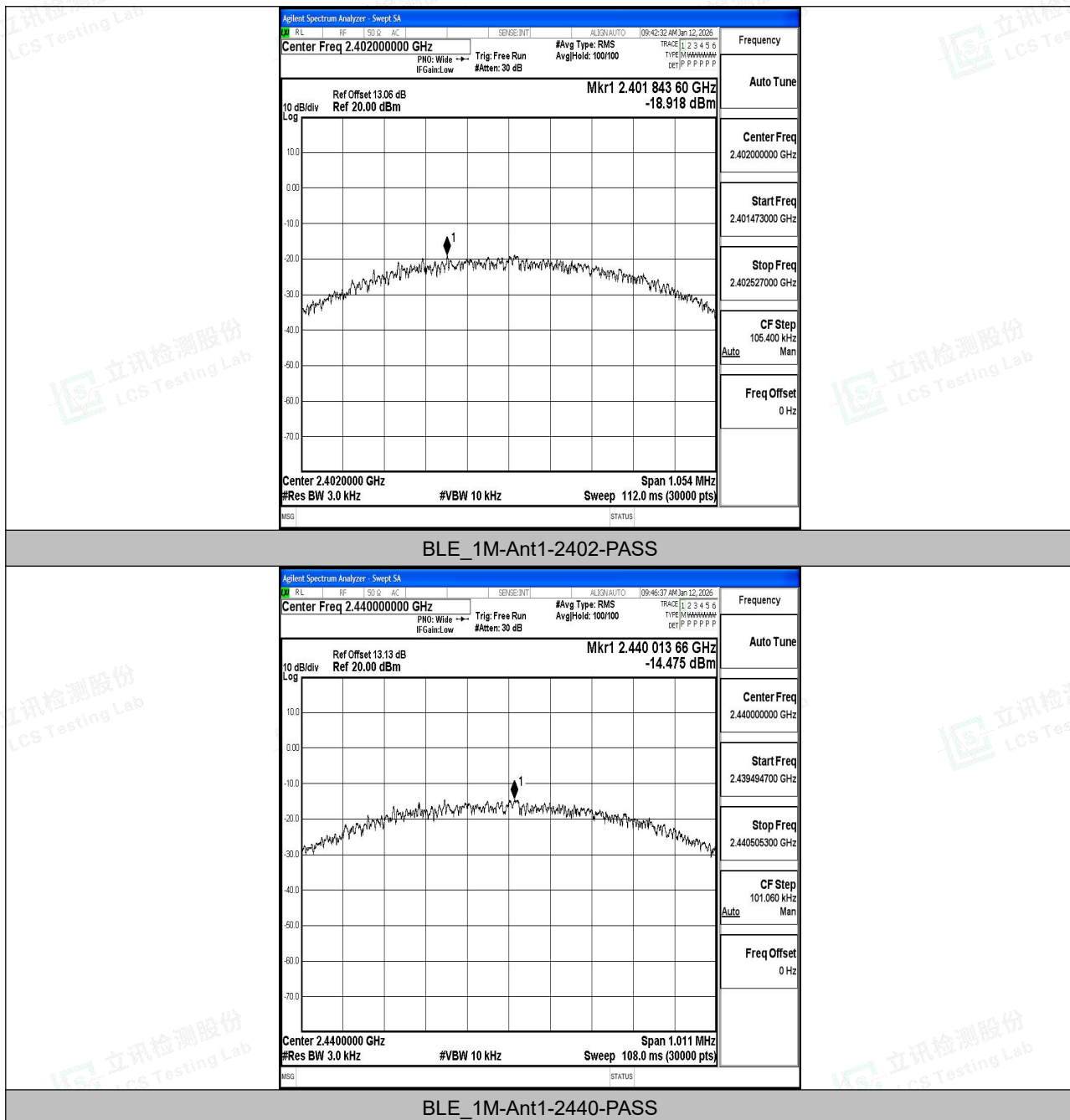
Test Result

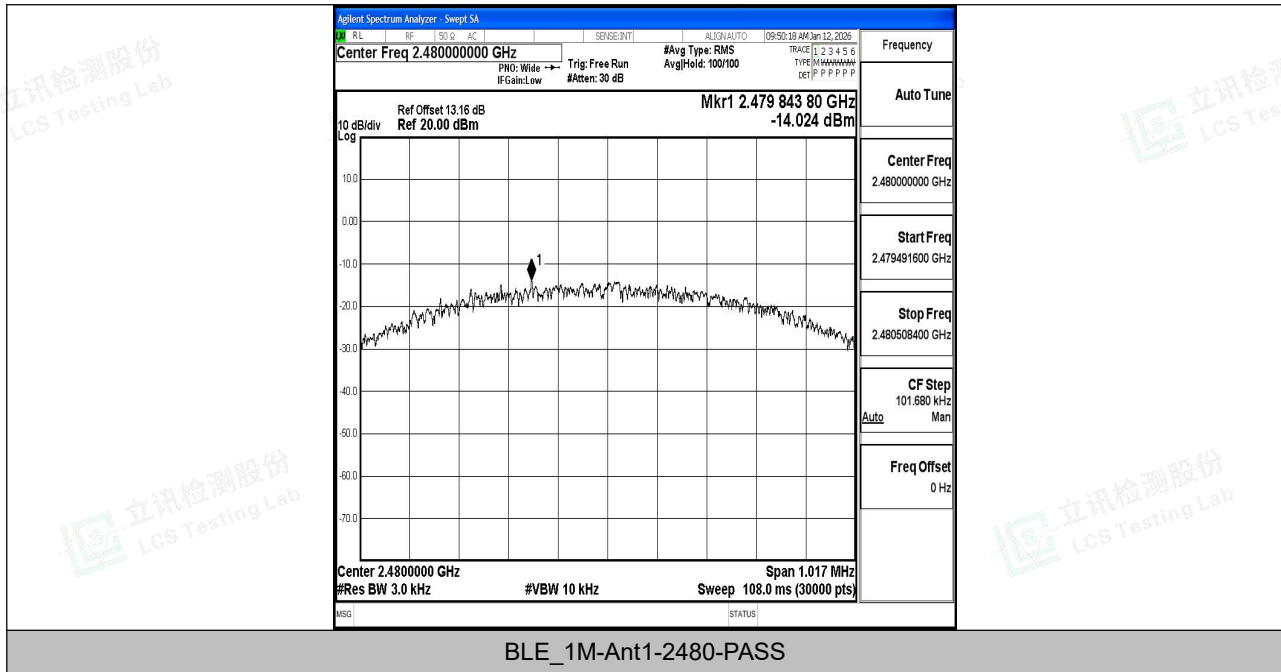
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.92	≤8.00	PASS
BLE_1M	Ant1	2440	-14.48	≤8.00	PASS
BLE_1M	Ant1	2480	-14.02	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

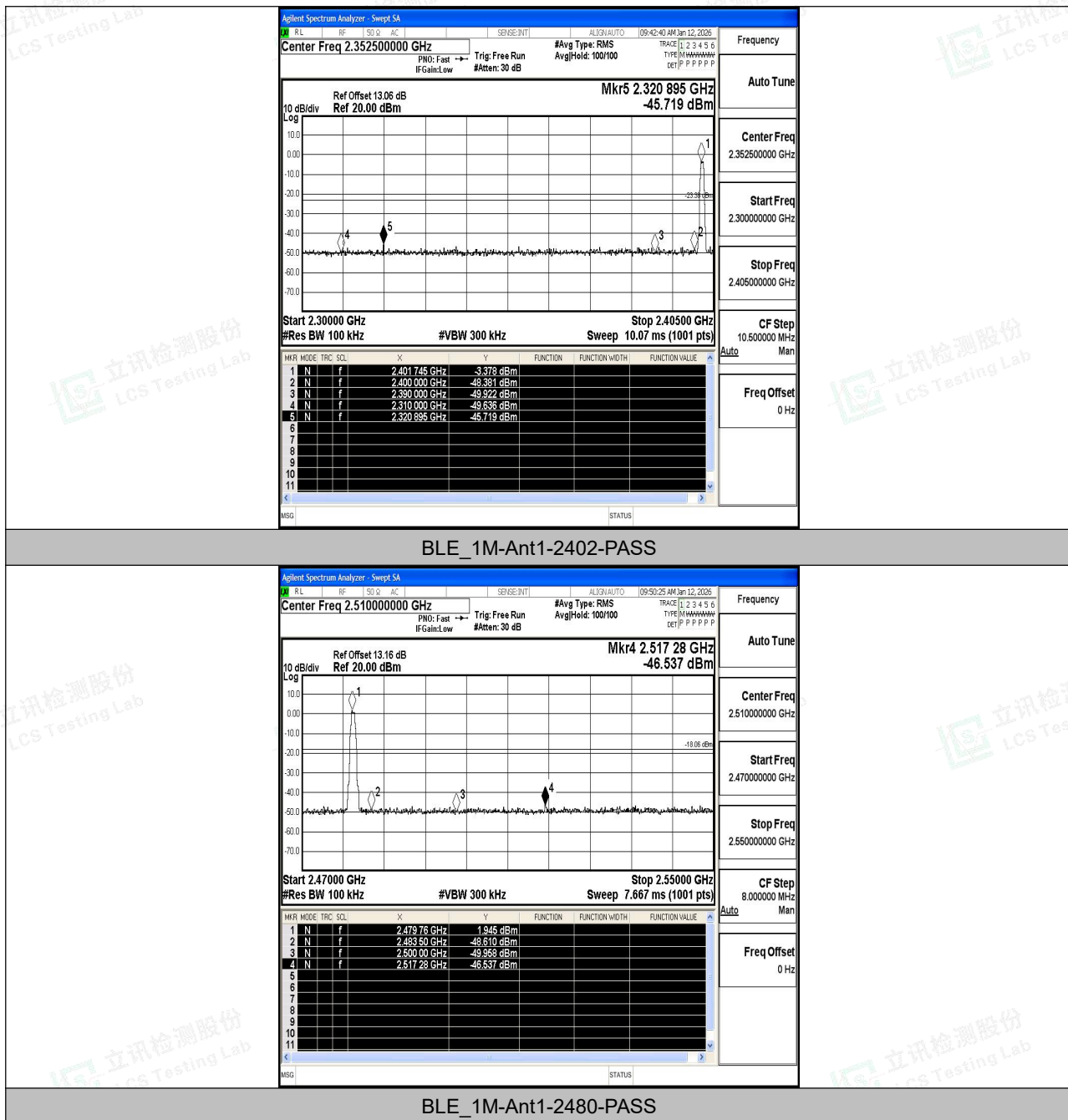
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.38	-45.72	≤-23.38	PASS
BLE_1M	Ant1	High	2480	1.95	-46.54	≤-18.06	PASS





Test Graphs



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B.5 Conducted Spurious Emission

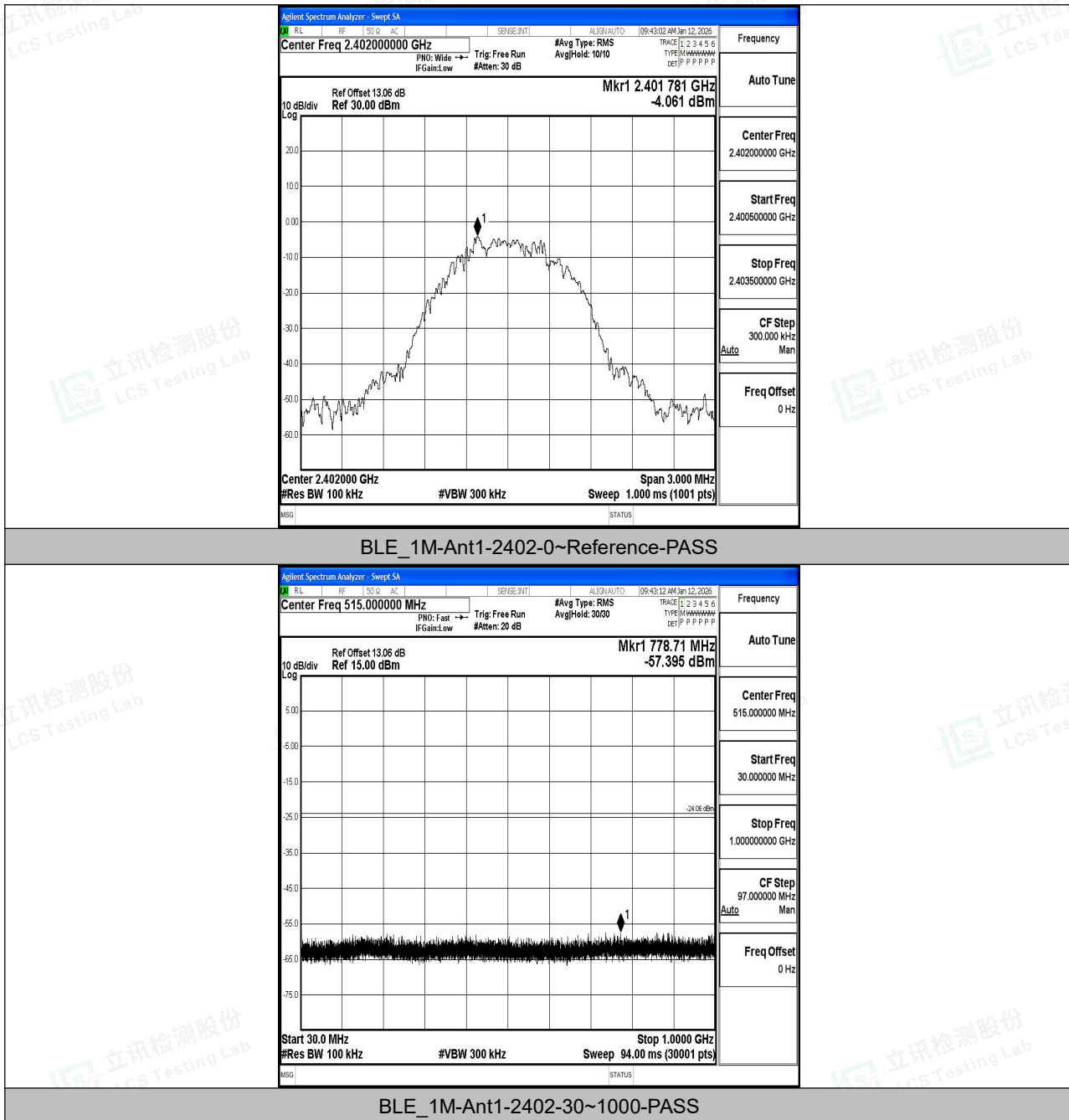
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.06	-4.06	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.06	-57.4	≤-24.06	PASS
BLE_1M	Ant1	2402	1000~26500	-4.06	-44.66	≤-24.06	PASS
BLE_1M	Ant1	2440	0~Reference	0.66	0.66	---	PASS
BLE_1M	Ant1	2440	30~1000	0.66	-56.55	≤-19.34	PASS
BLE_1M	Ant1	2440	1000~26500	0.66	-44.48	≤-19.34	PASS
BLE_1M	Ant1	2480	0~Reference	1.21	1.21	---	PASS
BLE_1M	Ant1	2480	30~1000	1.21	-57.19	≤-18.79	PASS
BLE_1M	Ant1	2480	1000~26500	1.21	-44.42	≤-18.79	PASS





Test Graphs

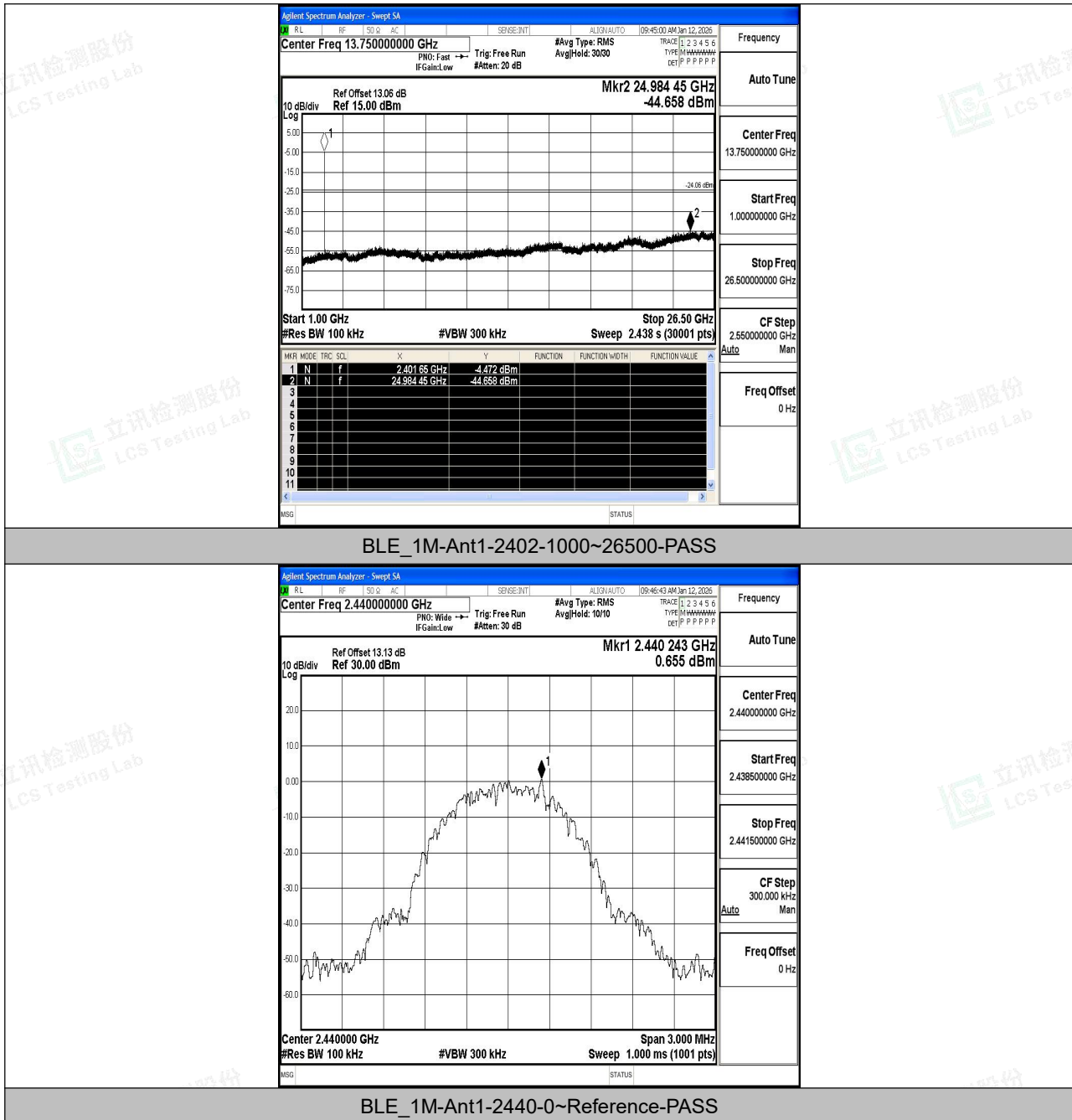


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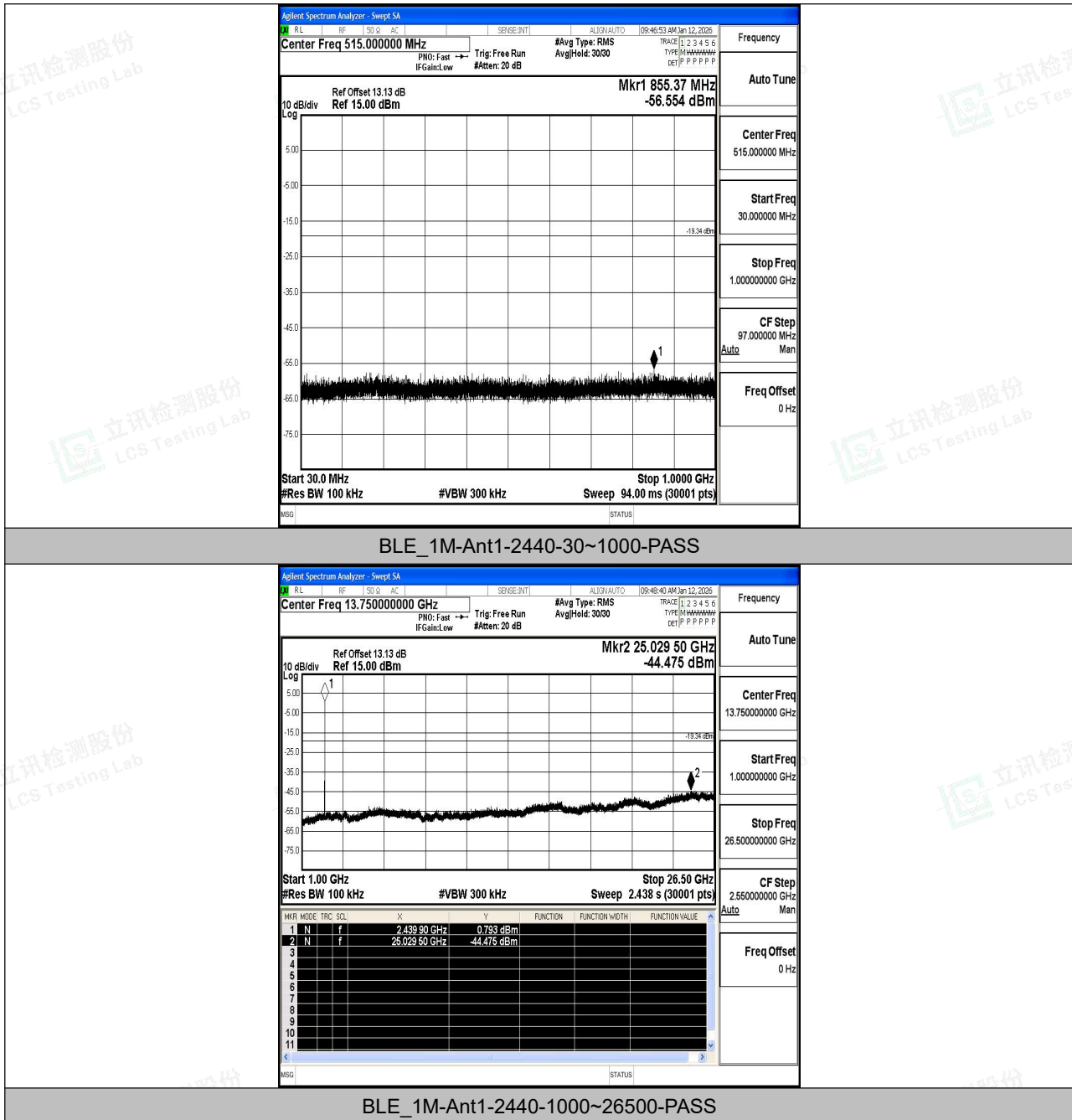


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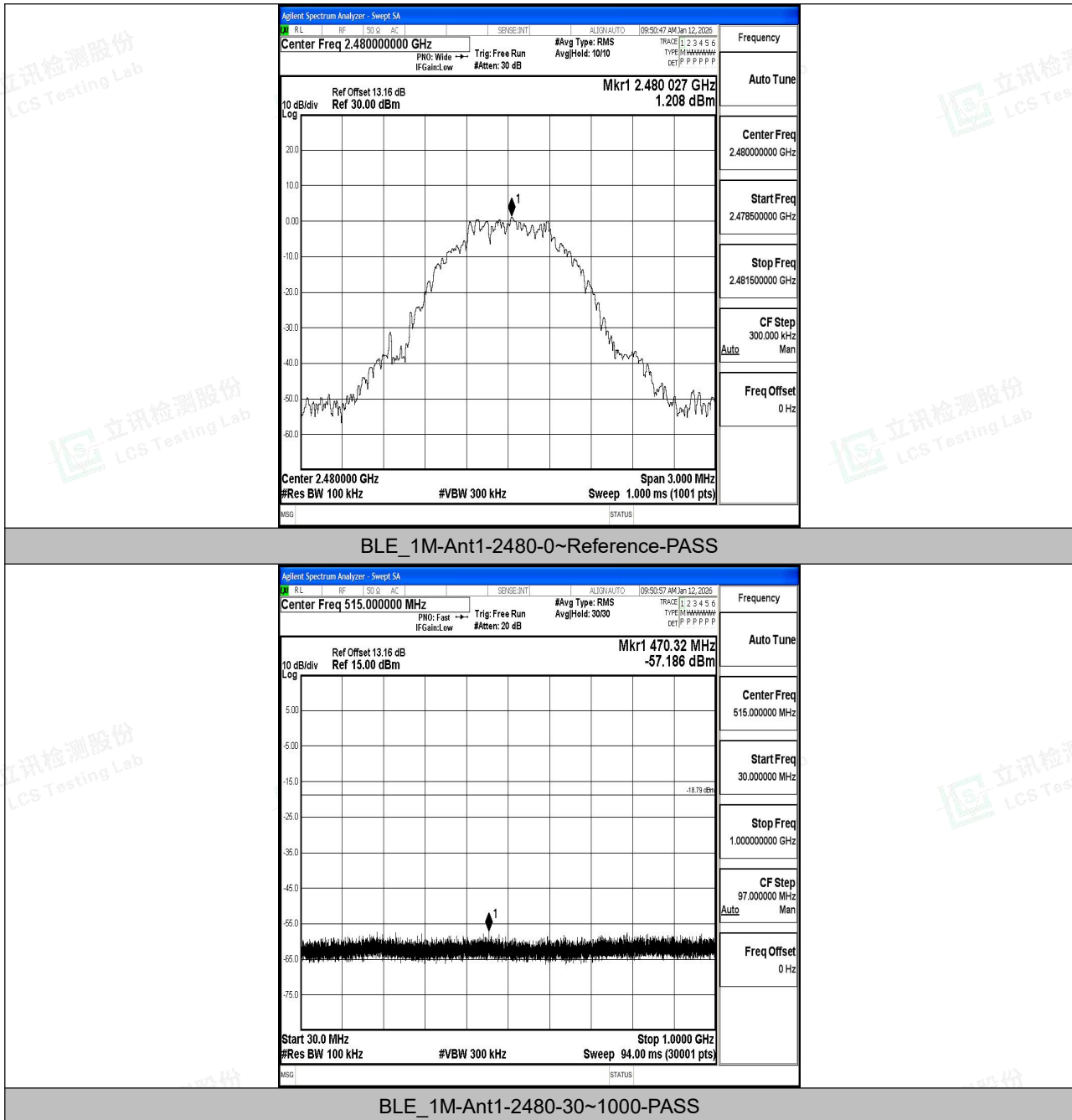


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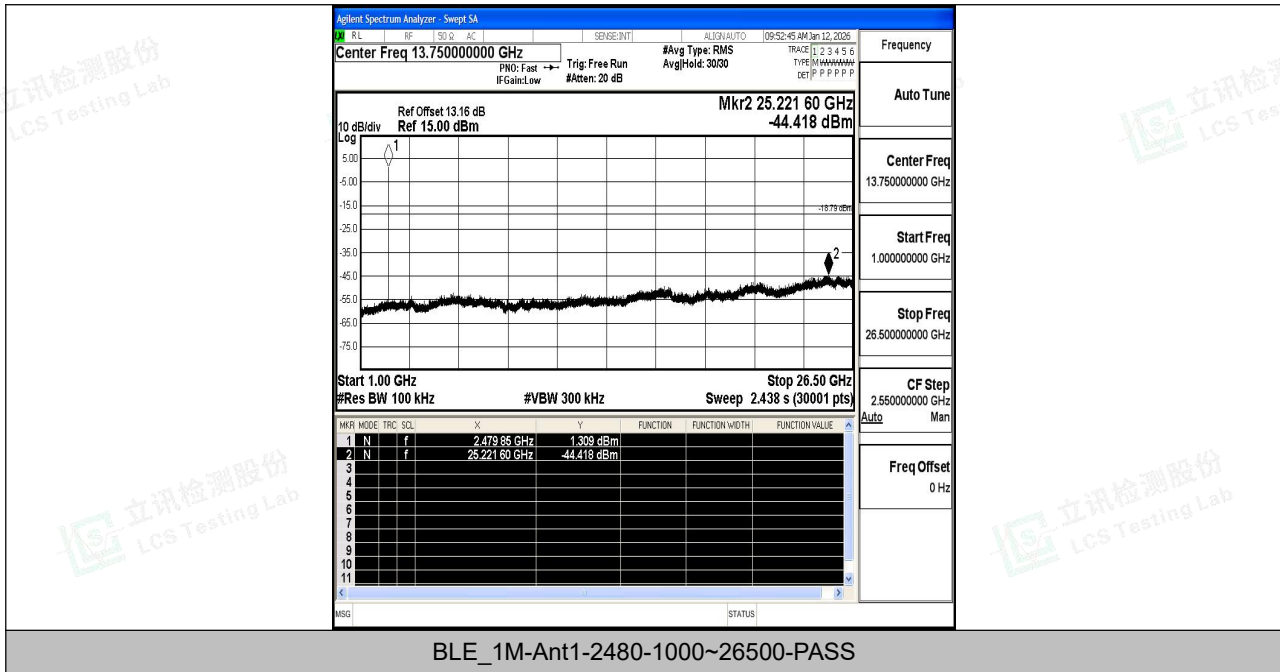


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B.6 Duty Cycle

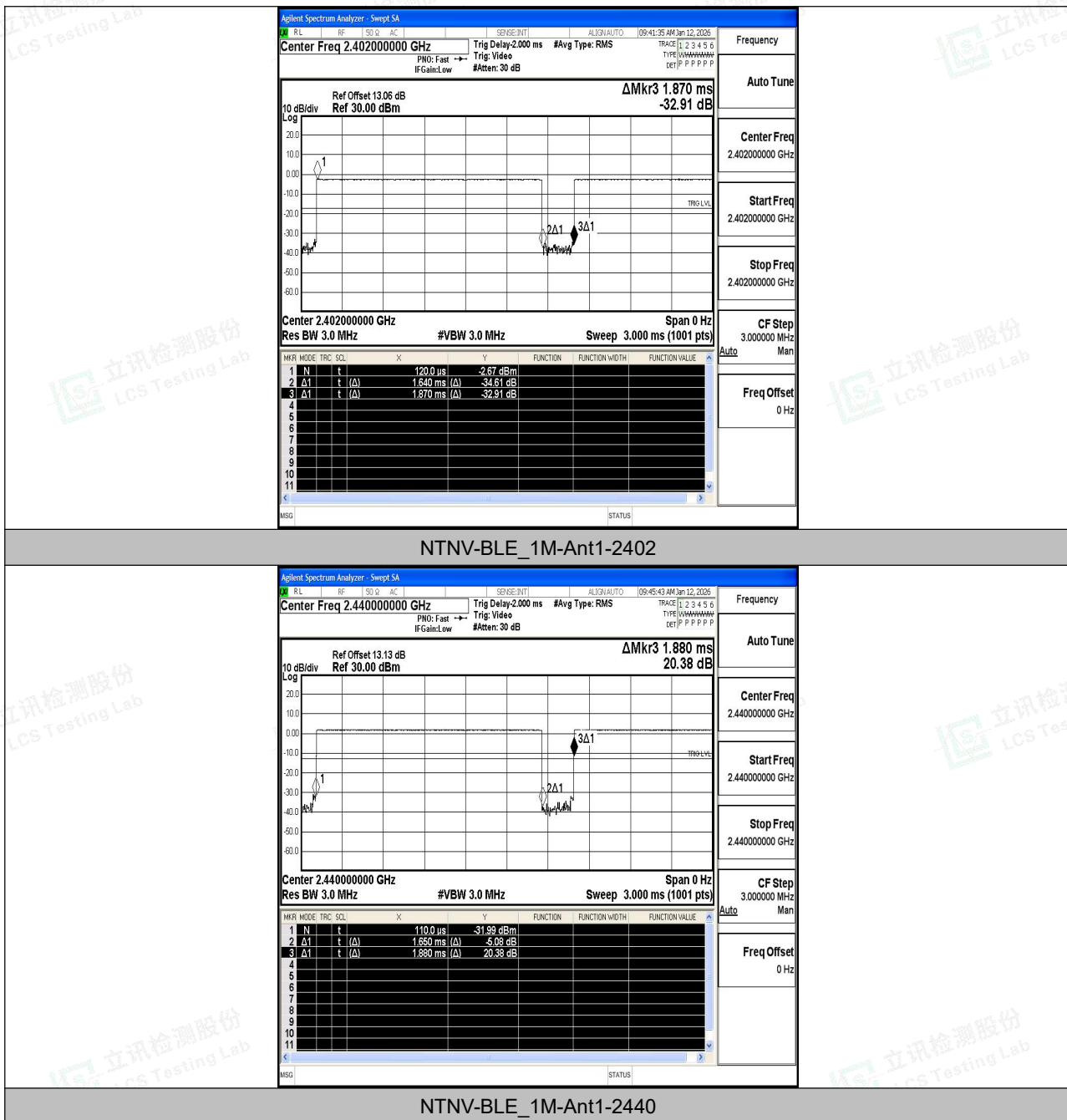
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.64	1.87	87.70	0.57
BLE_1M	Ant1	2440	1.65	1.88	87.77	0.57
BLE_1M	Ant1	2480	1.64	1.88	87.23	0.59





Test Graphs

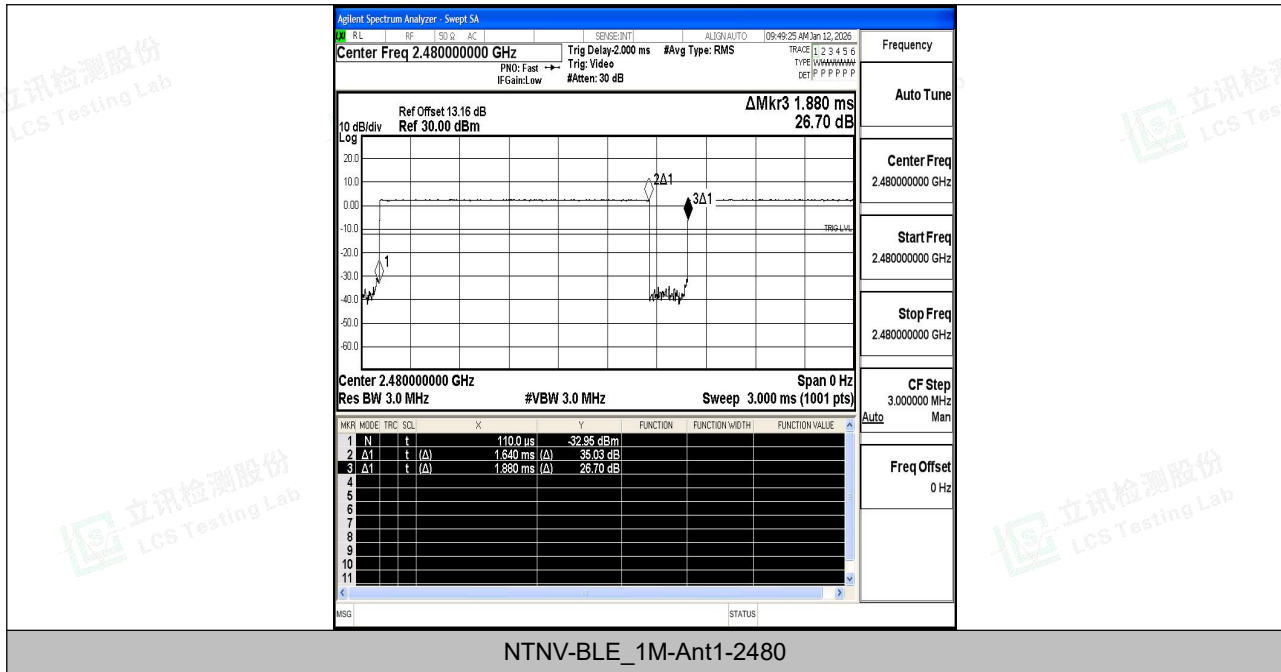


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	Peak	2390.000	-38.05	≤-21.20	57.15	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2310.000	-38.07	≤-21.20	57.13	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2312.390	-34.65	≤-21.20	60.55	≤74	PASS
BLE_1M	Ant1	Low	2402	AV	2390.000	-45.67	≤-41.20	49.53	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.81	≤-41.20	48.39	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2382.425	-45.2	≤-41.20	50.00	≤54	PASS
BLE_1M	Ant1	High	2480	Peak	2483.500	-38.42	≤-21.20	56.78	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2500.000	-37.78	≤-21.20	57.42	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2498.080	-35.51	≤-21.20	59.69	≤74	PASS
BLE_1M	Ant1	High	2480	AV	2483.500	-45.76	≤-41.20	49.44	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2500.000	-45.9	≤-41.20	49.30	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2499.280	-45.17	≤-41.20	50.03	≤54	PASS

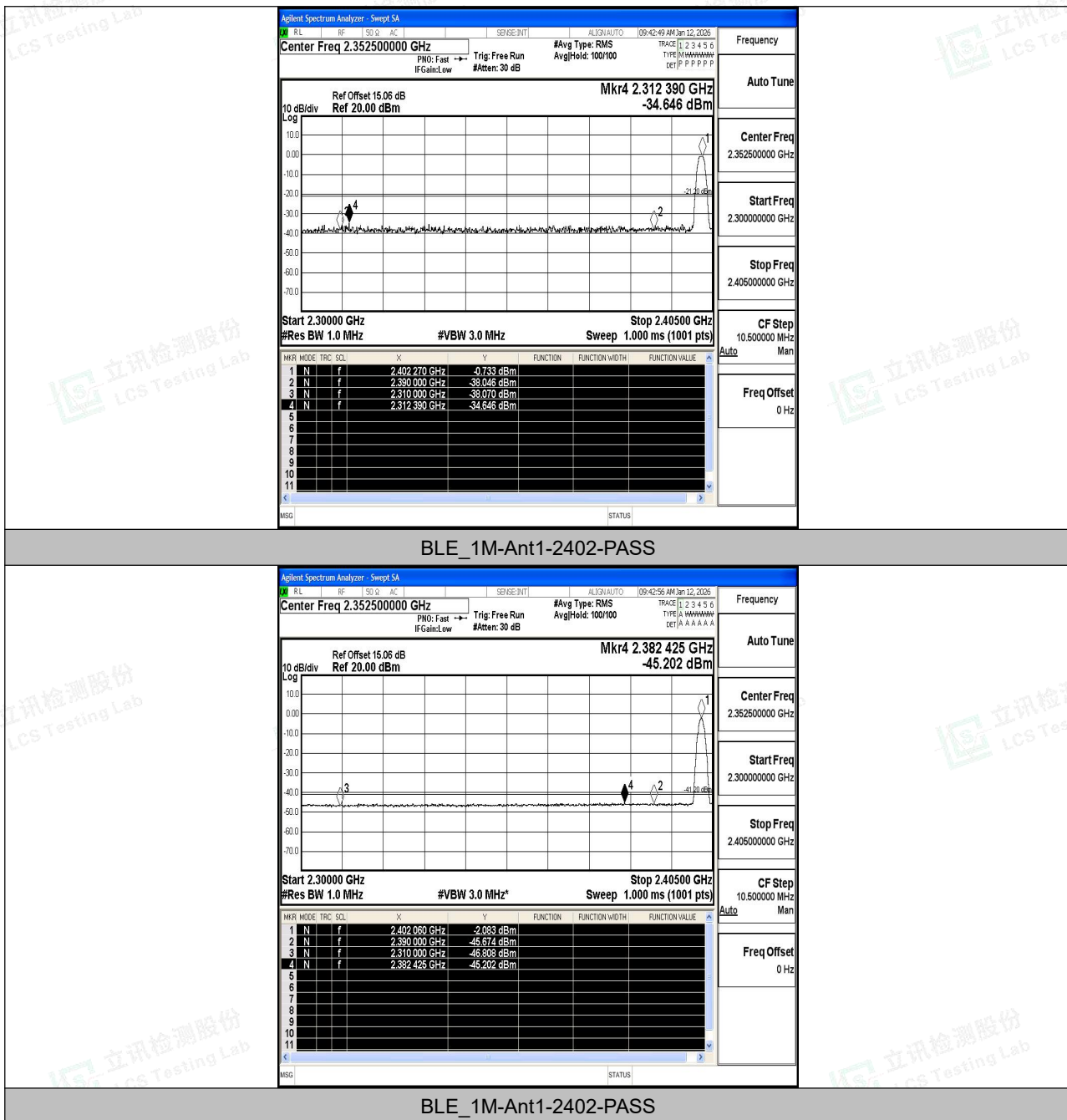
Note:

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

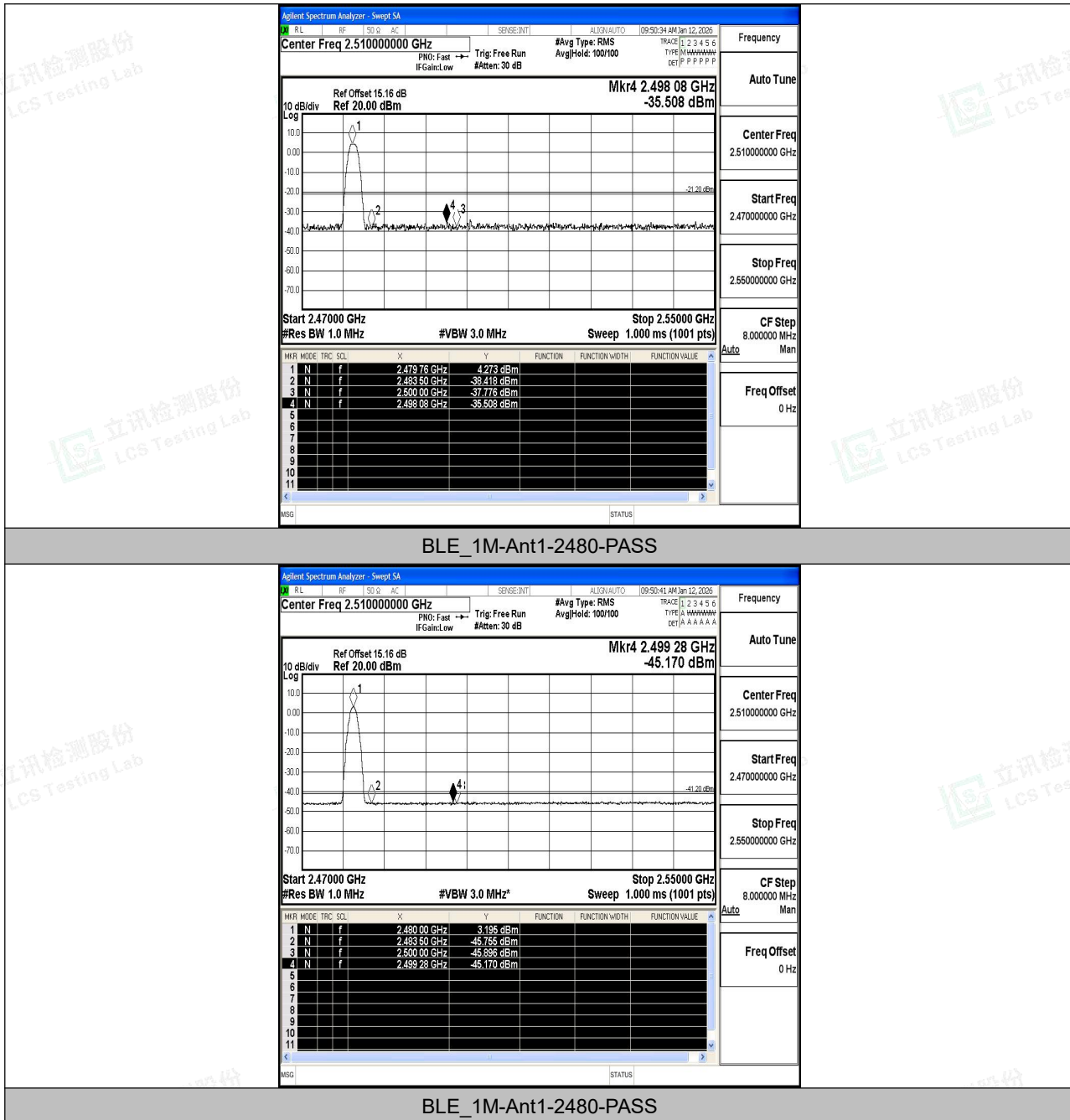


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