

Appendix Test Data

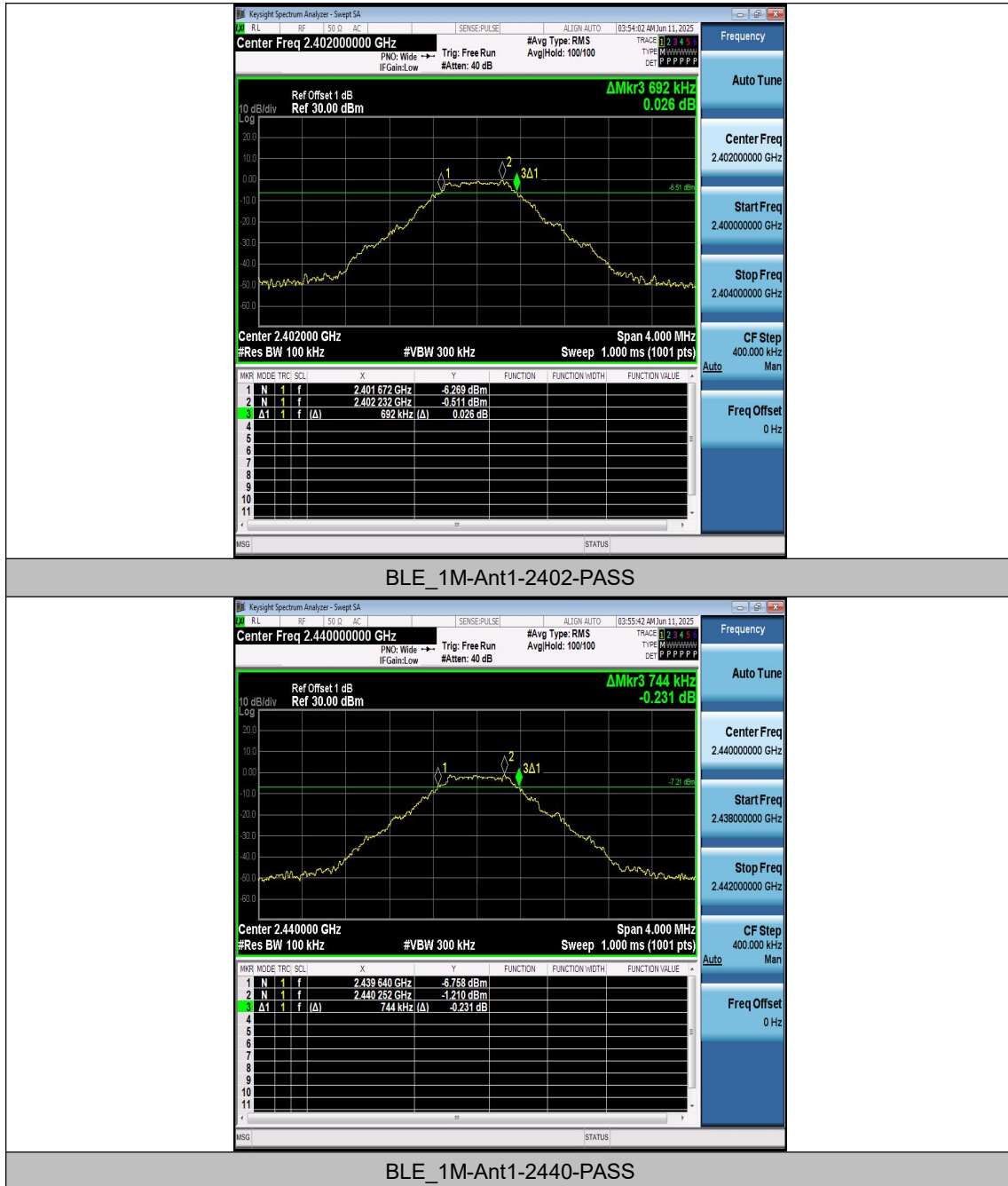
Report No.:	1812C50269812502	Test Sample No.:	1-2-2
Start Test Date:	2025-06-11	Finish Test Date:	2025-06-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.8°C	Relative Humidity:	53%
Pressure:	101kPa		

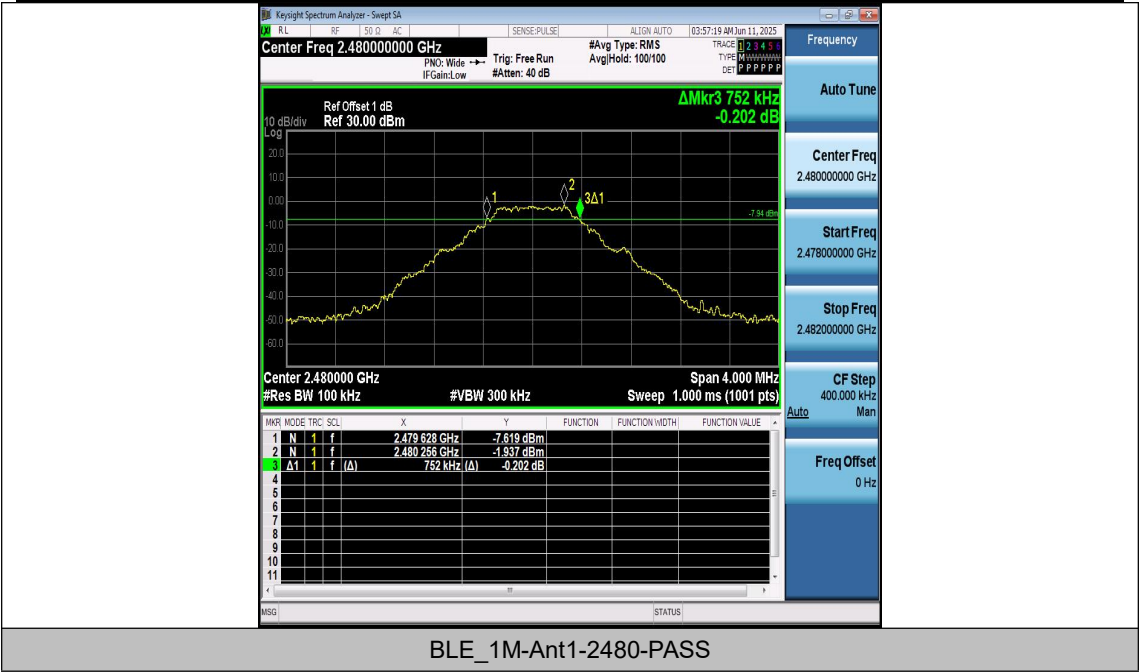
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.672	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.744	2439.640	2440.384	0.5	PASS
BLE_1M	Ant1	2480	0.752	2479.628	2480.380	0.5	PASS

Test Graphs





BLE_1M-Ant1-2480-PASS

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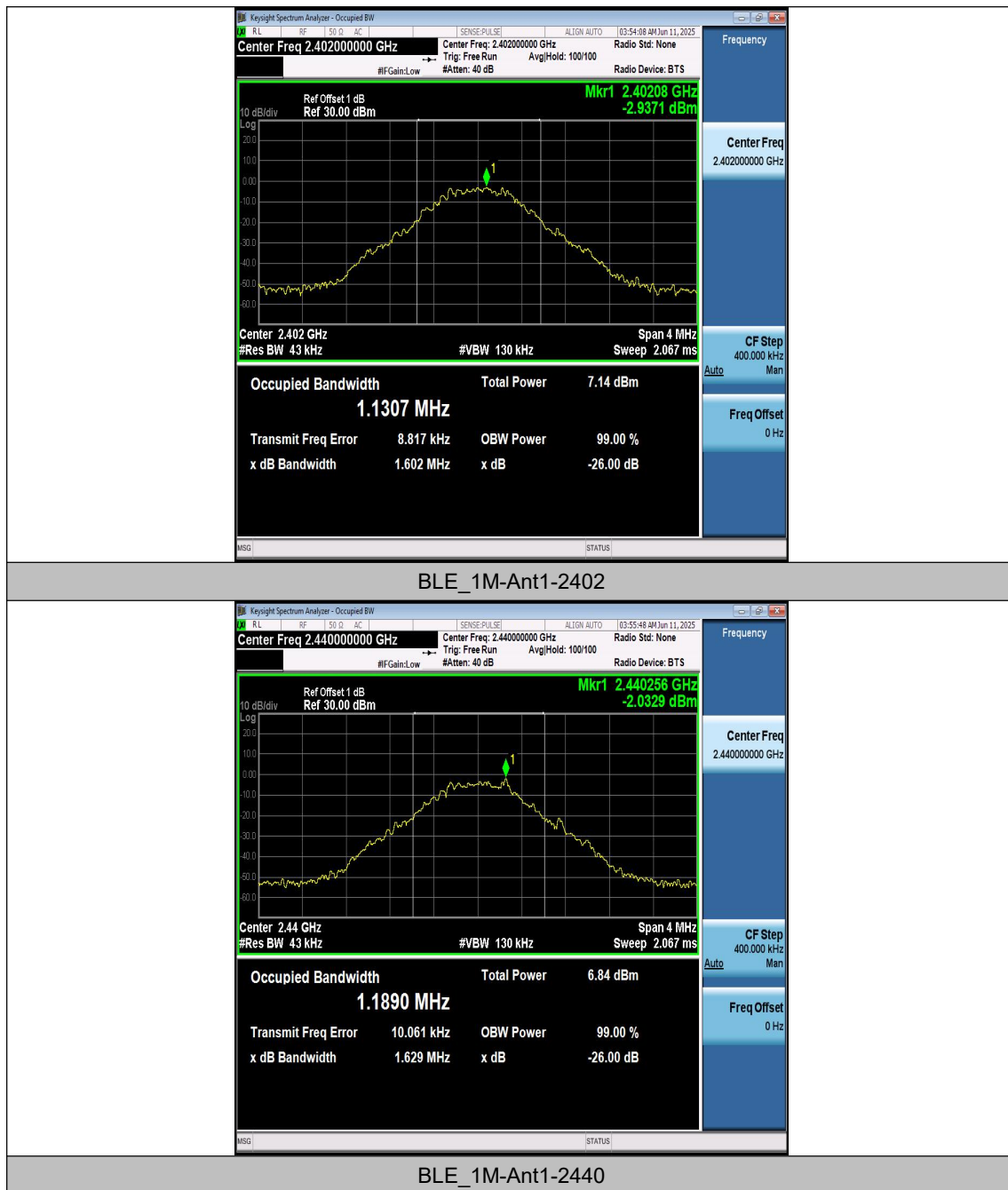
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1307	2401.4435	2402.5742	---	---
BLE_1M	Ant1	2440	1.1890	2439.4156	2440.6046	---	---
BLE_1M	Ant1	2480	1.2368	2479.3852	2480.6220	---	---

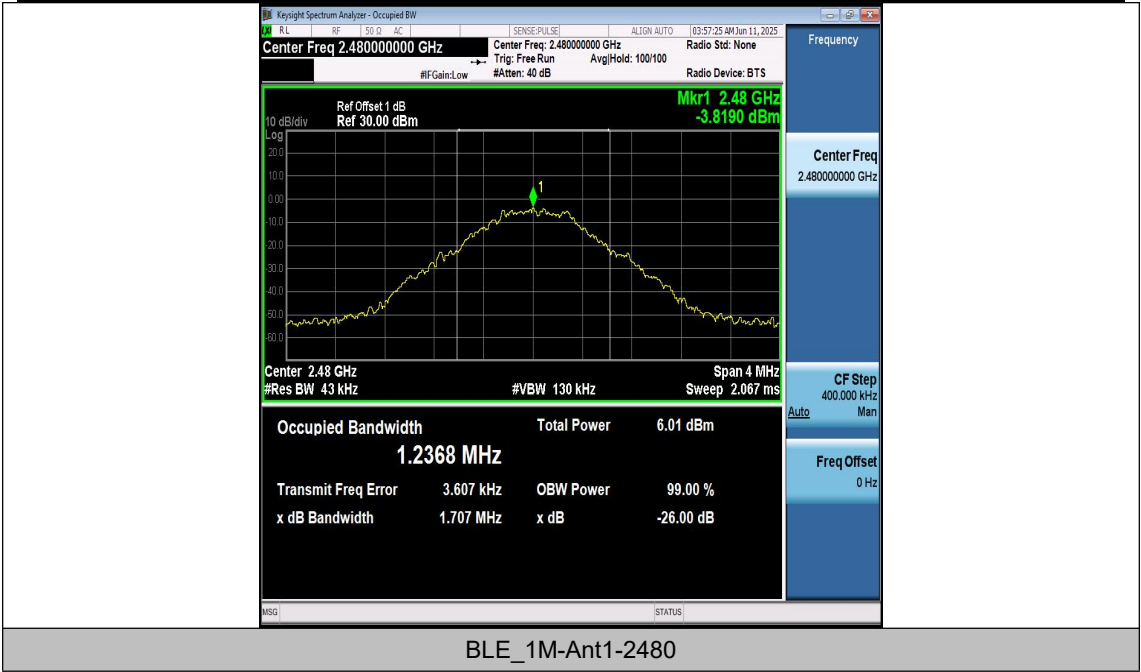
Test Graphs



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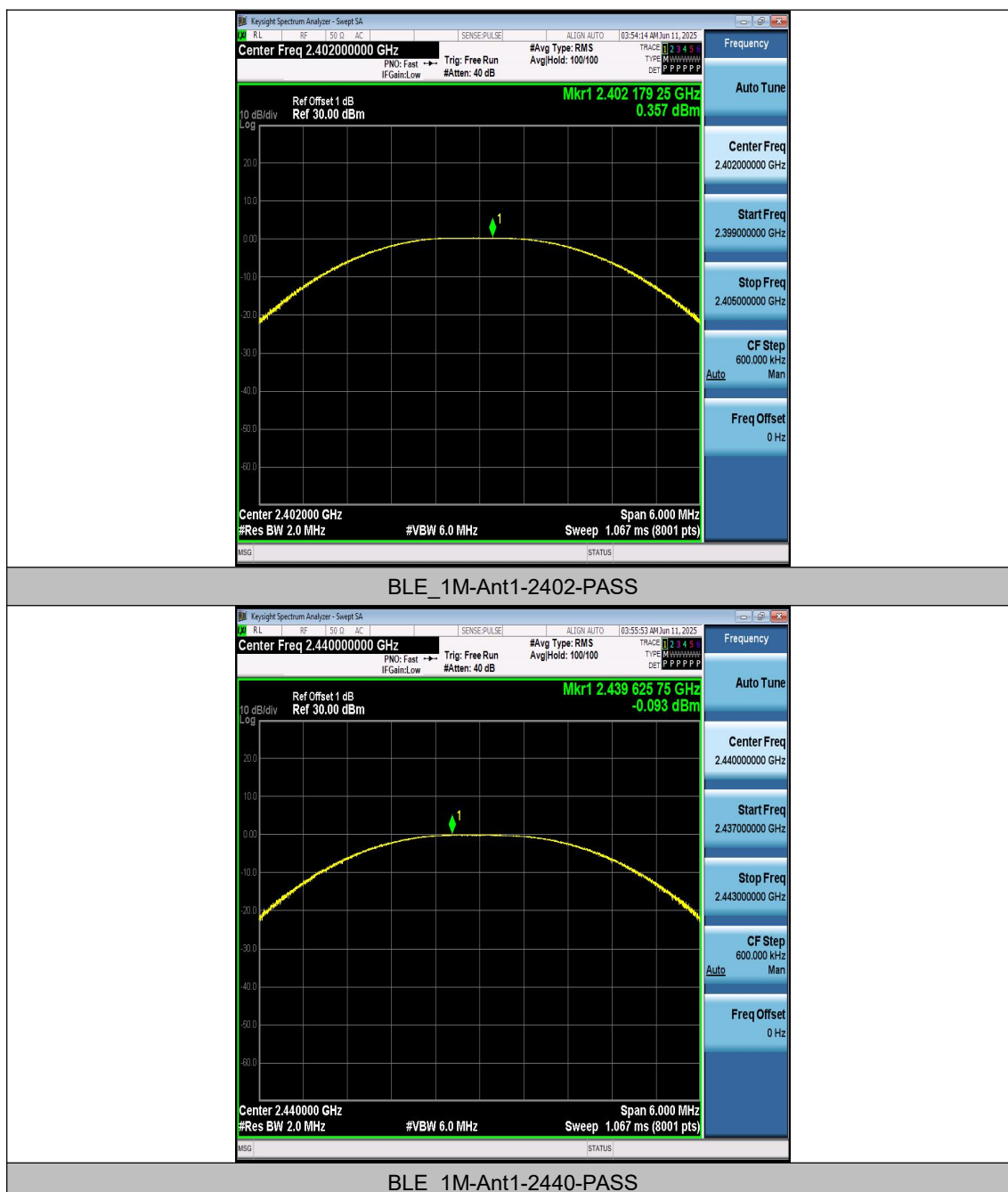
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.36	≤30	PASS
BLE_1M	Ant1	2440	-0.09	≤30	PASS
BLE_1M	Ant1	2480	-0.74	≤30	PASS

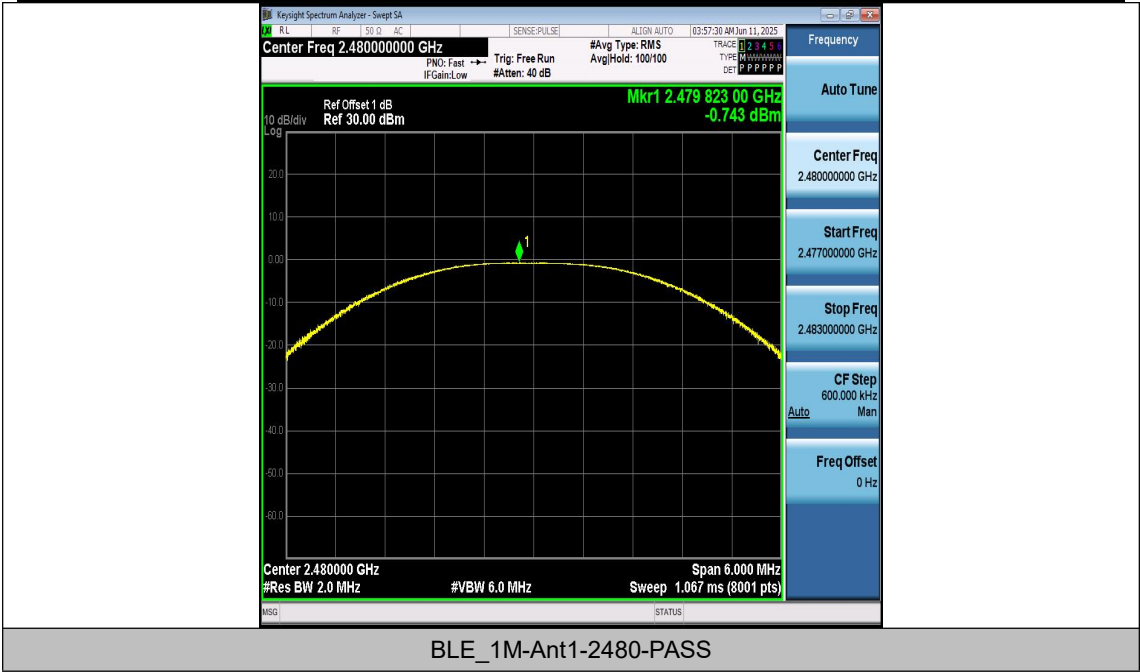
Test Graphs Peak



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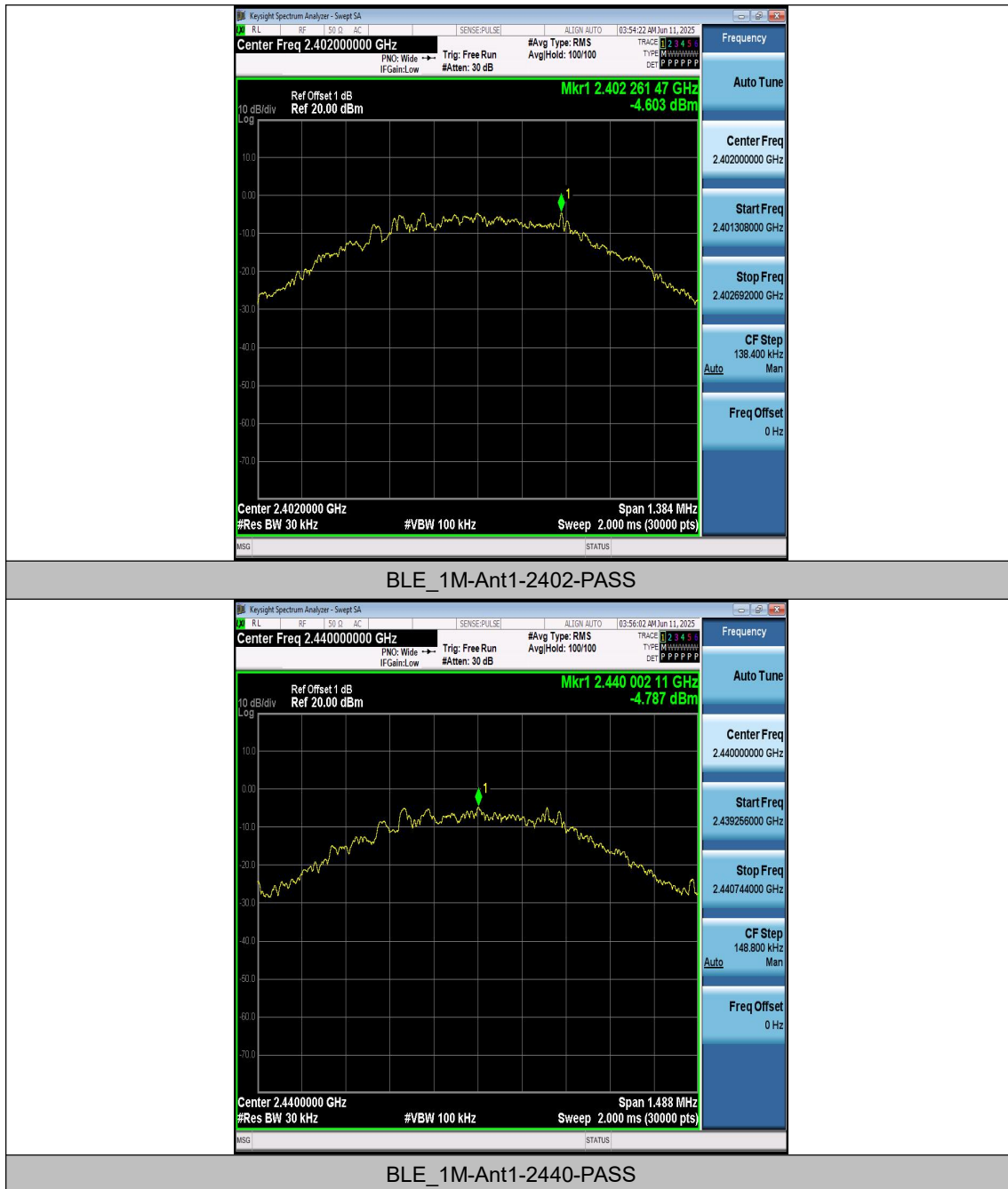
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.60	-14.60	≤8.00	PASS
BLE_1M	Ant1	2440	-4.79	-14.79	≤8.00	PASS
BLE_1M	Ant1	2480	-5.48	-15.48	≤8.00	PASS

Note: $\text{PSD}(\text{dBm}/3\text{kHz}) = \text{PSD}(\text{dBm}/30\text{kHz}) - (10 \cdot \log(30/3))$.

Test Graphs



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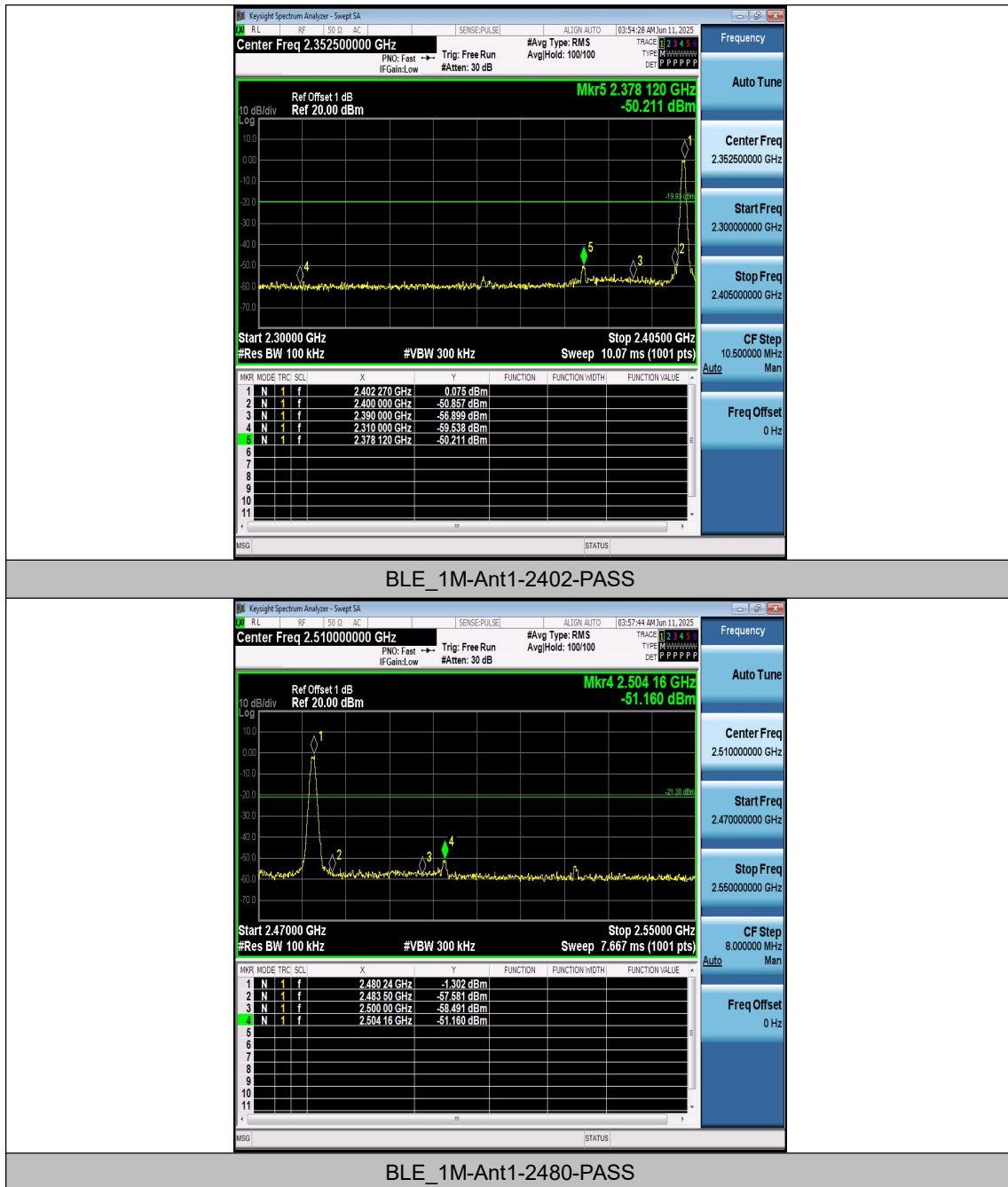
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.08	-50.21	≤-19.93	PASS
BLE_1M	Ant1	High	2480	-1.30	-51.16	≤-21.3	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

Test Graphs



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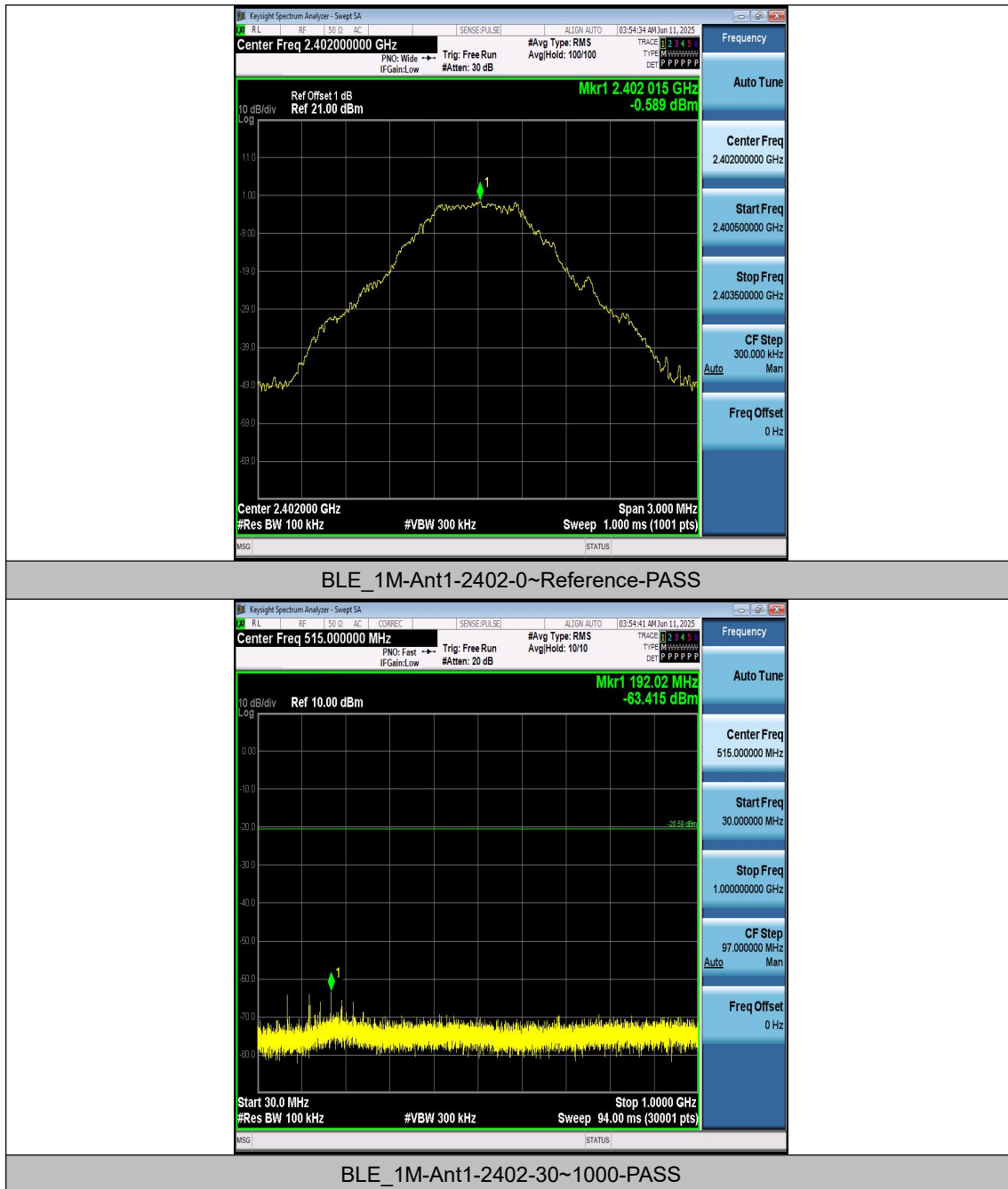
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.59	-0.59	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.59	-63.42	≤-20.59	PASS
BLE_1M	Ant1	2402	1000~26500	-0.59	-43.13	≤-20.59	PASS
BLE_1M	Ant1	2440	0~Reference	-1.20	-1.20	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.20	-50.02	≤-21.2	PASS
BLE_1M	Ant1	2440	1000~26500	-1.20	-42.41	≤-21.2	PASS
BLE_1M	Ant1	2480	0~Reference	-1.58	-1.58	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.58	-62.18	≤-21.58	PASS
BLE_1M	Ant1	2480	1000~26500	-1.58	-42.93	≤-21.58	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

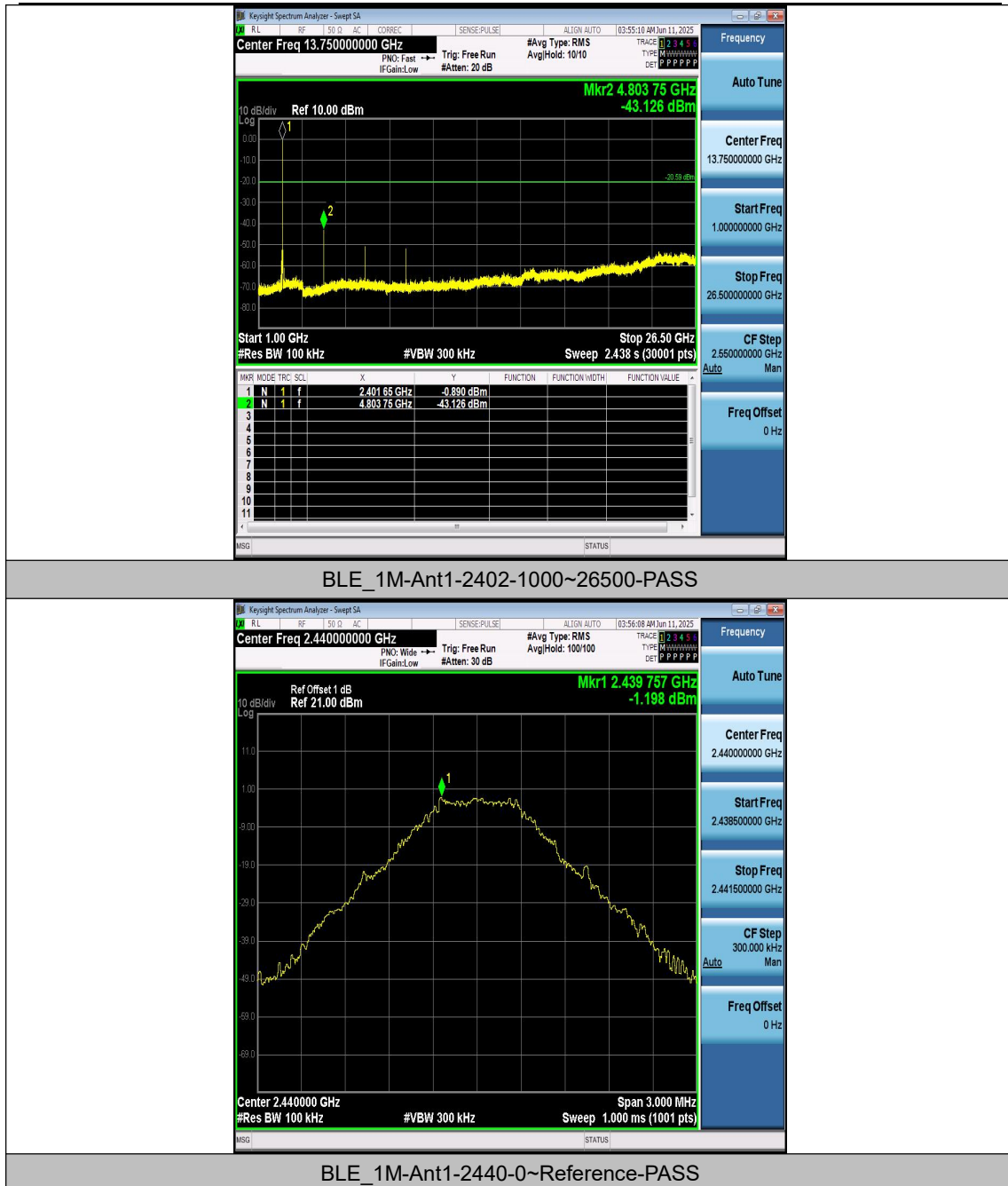
Test Graphs



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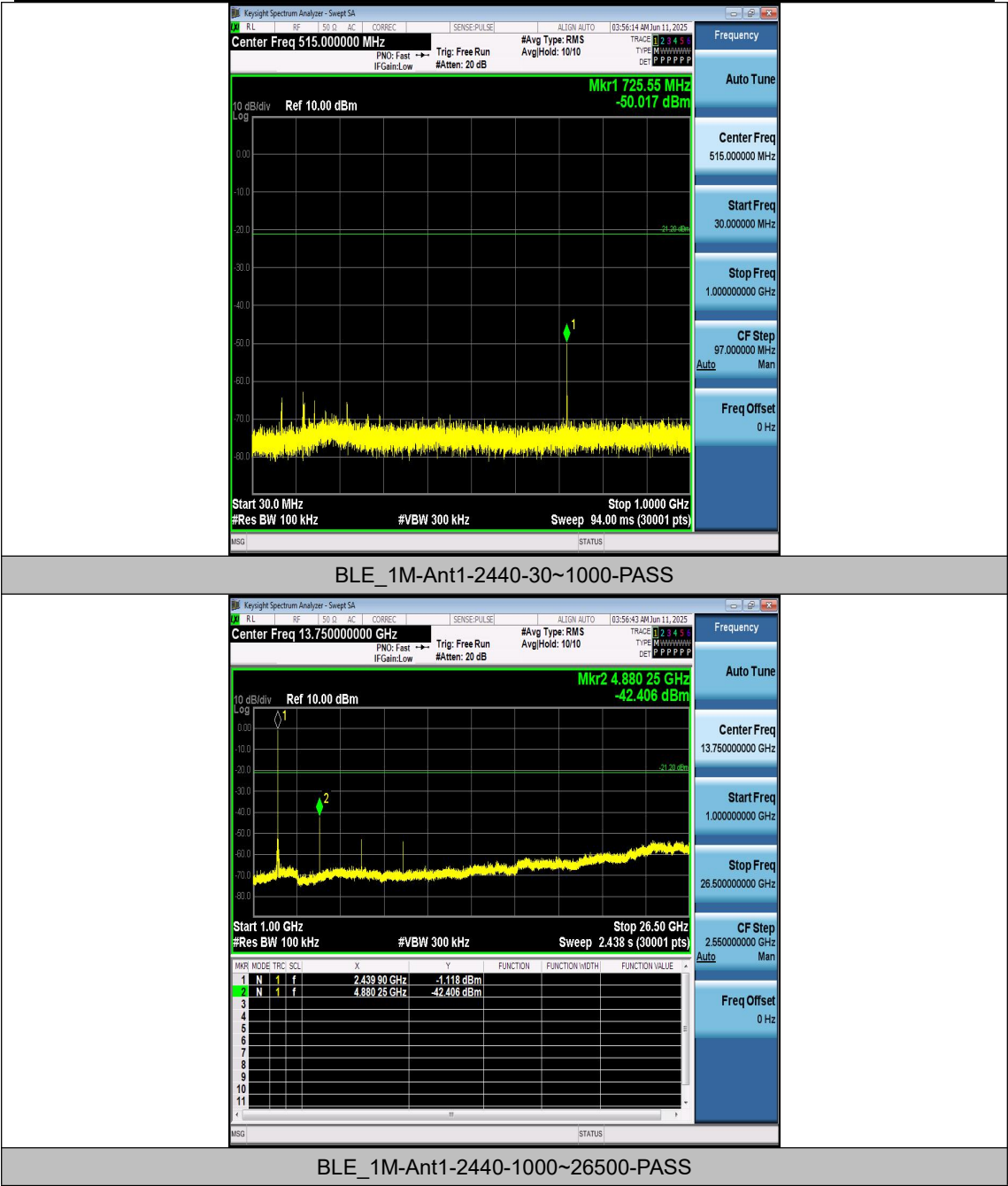
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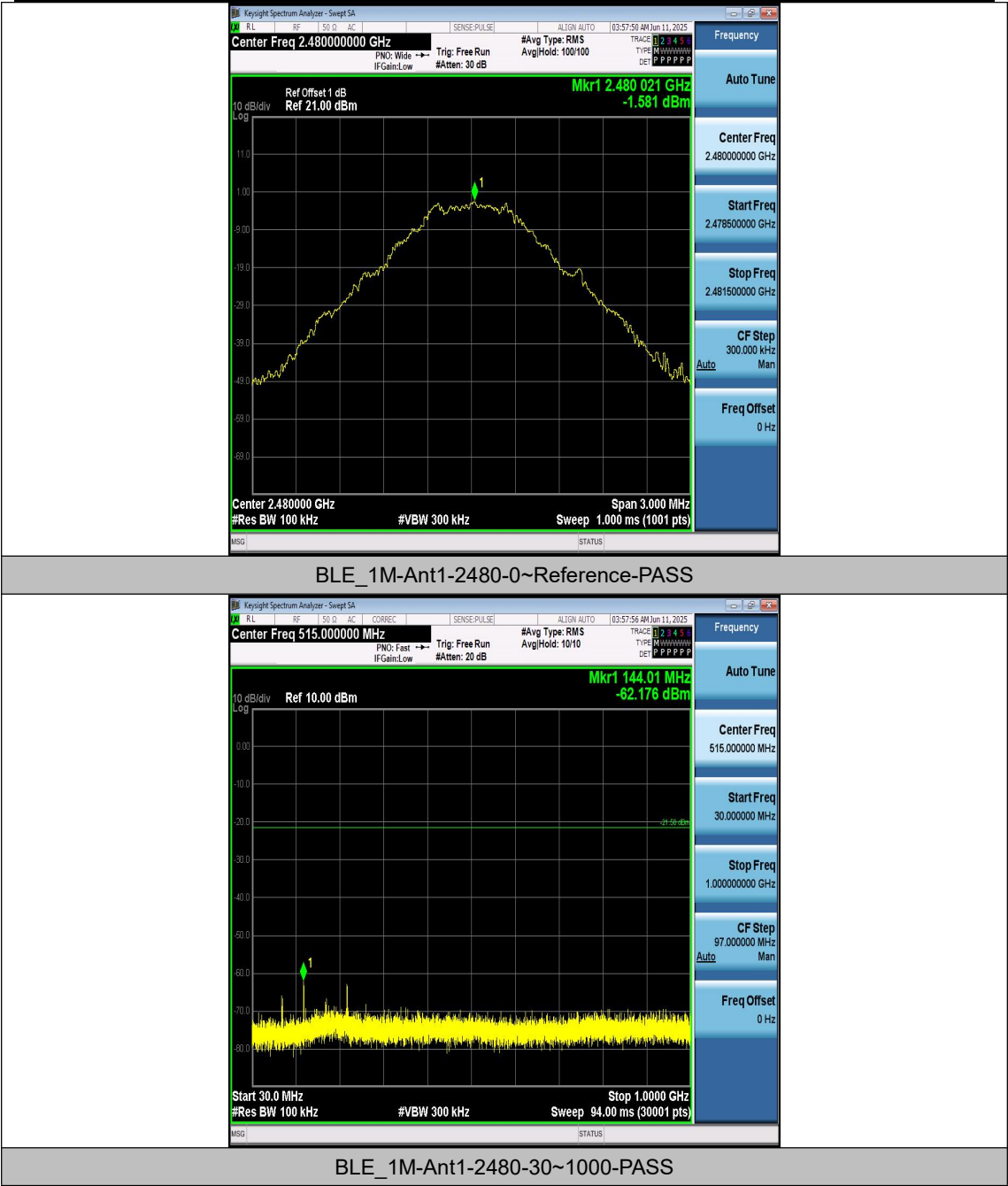
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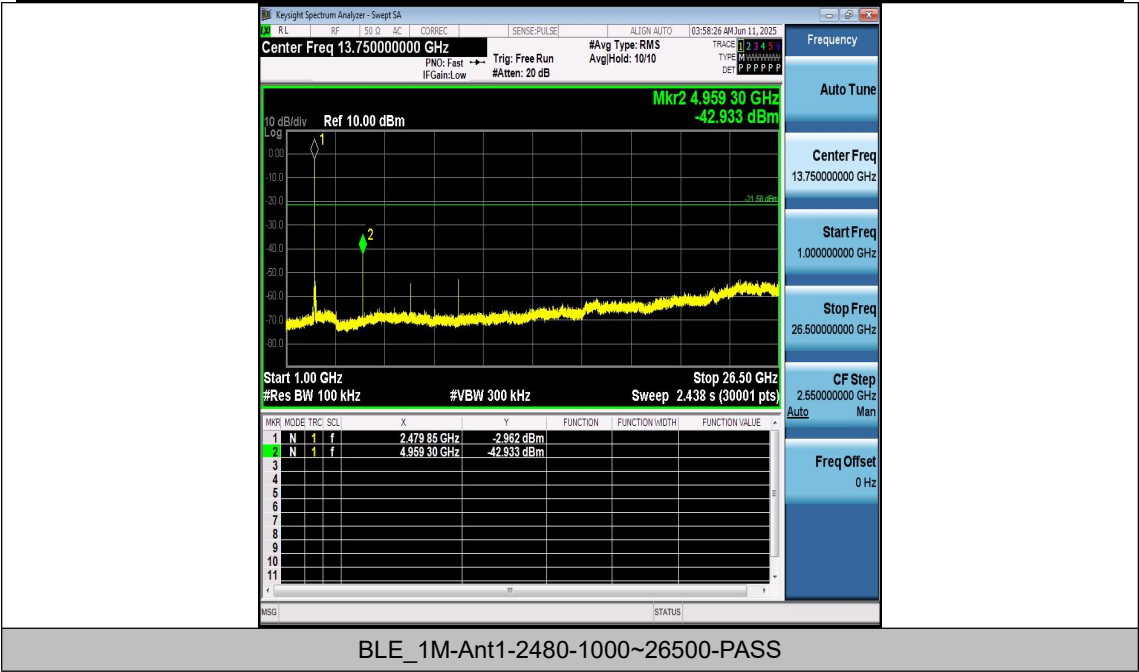
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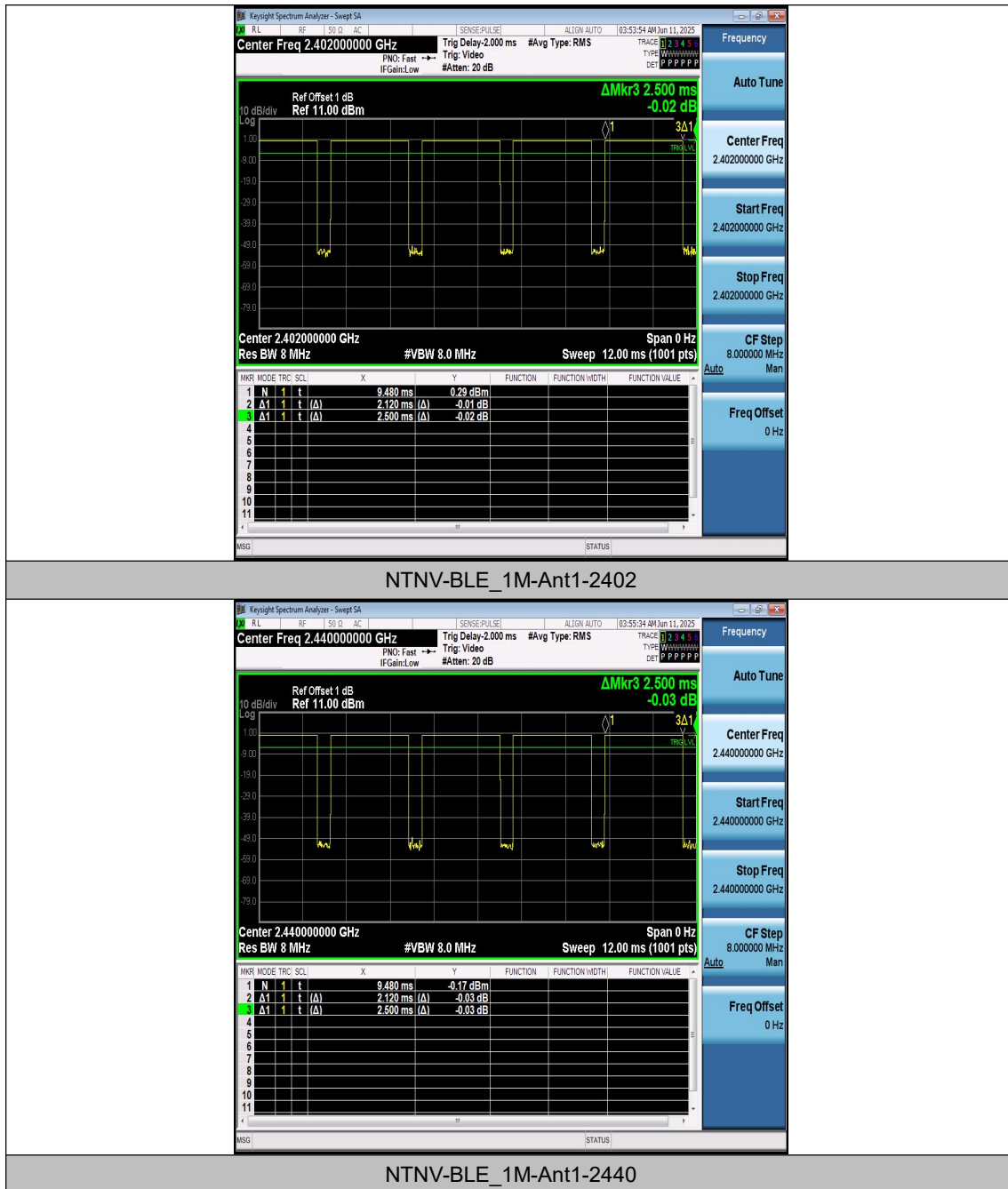
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

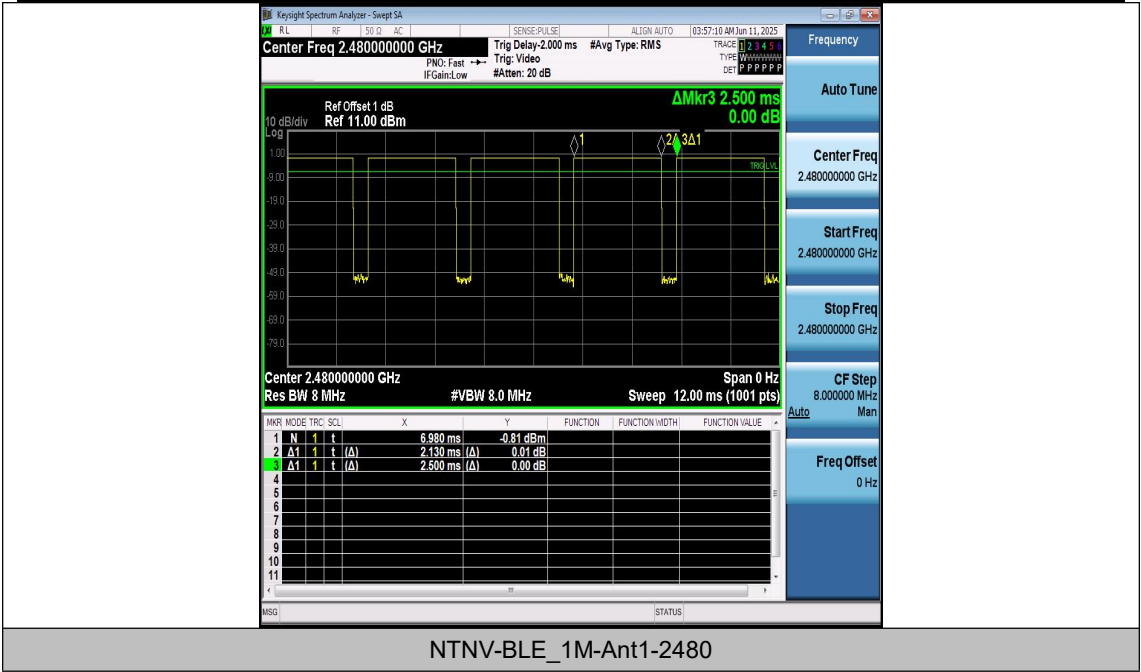
Test Graphs



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NTNV-BLE_1M-Ant1-2480

---End---