

Appendix Test Data

Report No.:	1812C50100412502	Test Sample No.:	1-2-2
Start Test Date:	2025.03.20	Finish Test Date:	2025.03.25
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	Relative Humidity:	45%
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	0.628	2401.732	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.704	2440.372	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.704	2480.380	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.504	2402.608	0.5	PASS
BLE_2M	Ant1	2440	1.144	2439.468	2440.612	0.5	PASS
BLE_2M	Ant1	2480	1.120	2479.492	2480.612	0.5	PASS



Test Graphs



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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	1.0282	2401.5341	2402.5623	---	---
BLE_1M	Ant1	2440	1.0301	2439.5299	2440.5600	---	---
BLE_1M	Ant1	2480	1.0408	2479.5243	2480.5651	---	---
BLE_2M	Ant1	2402	2.0661	2401.0211	2403.0872	---	---
BLE_2M	Ant1	2440	2.0554	2439.0254	2441.0808	---	---
BLE_2M	Ant1	2480	2.0596	2479.0318	2481.0914	---	---

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Test Graphs



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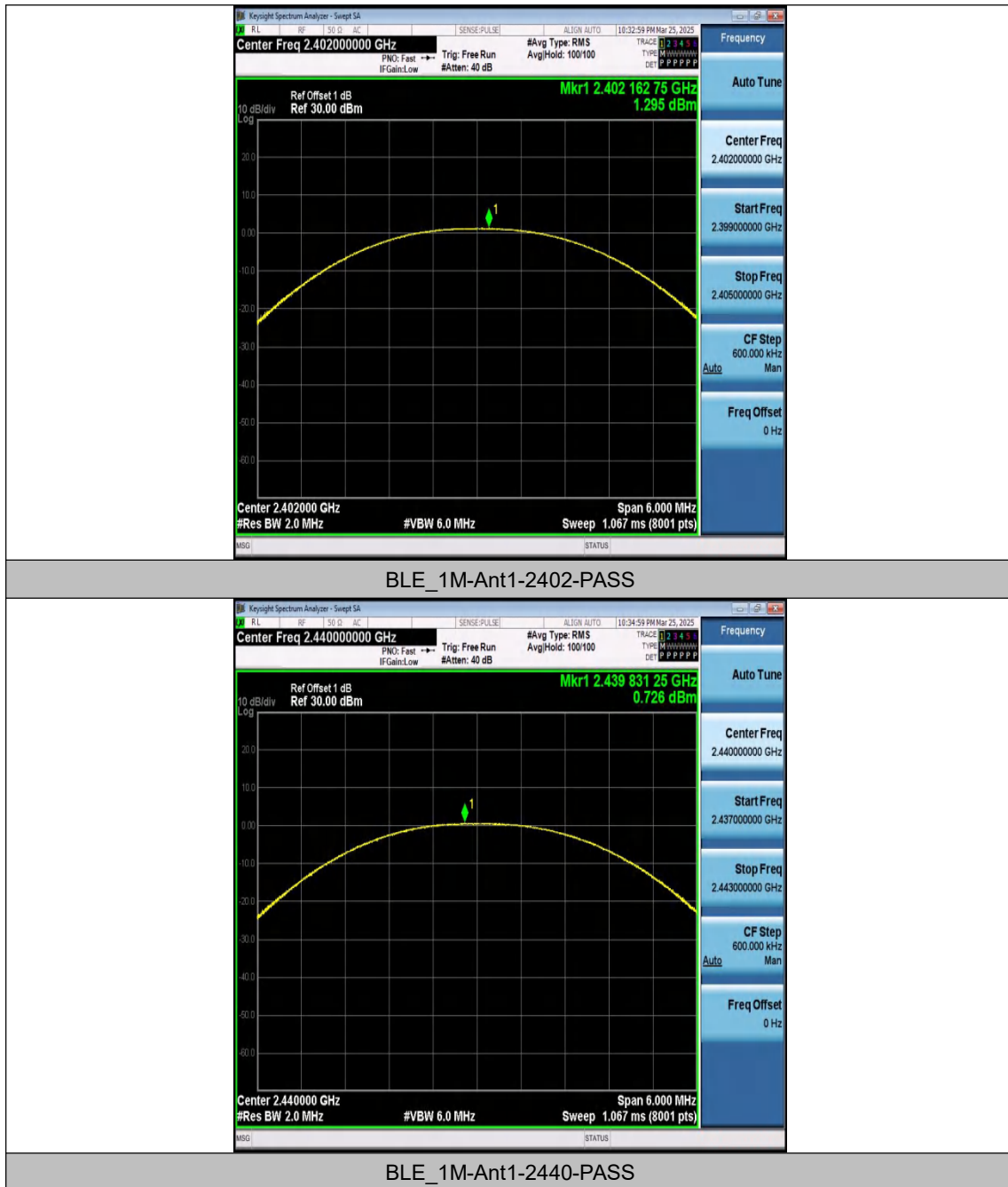


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.30	≤30	PASS
BLE_1M	Ant1	2440	0.73	≤30	PASS
BLE_1M	Ant1	2480	-0.04	≤30	PASS
BLE_2M	Ant1	2402	1.63	≤30	PASS
BLE_2M	Ant1	2440	1.17	≤30	PASS
BLE_2M	Ant1	2480	0.33	≤30	PASS

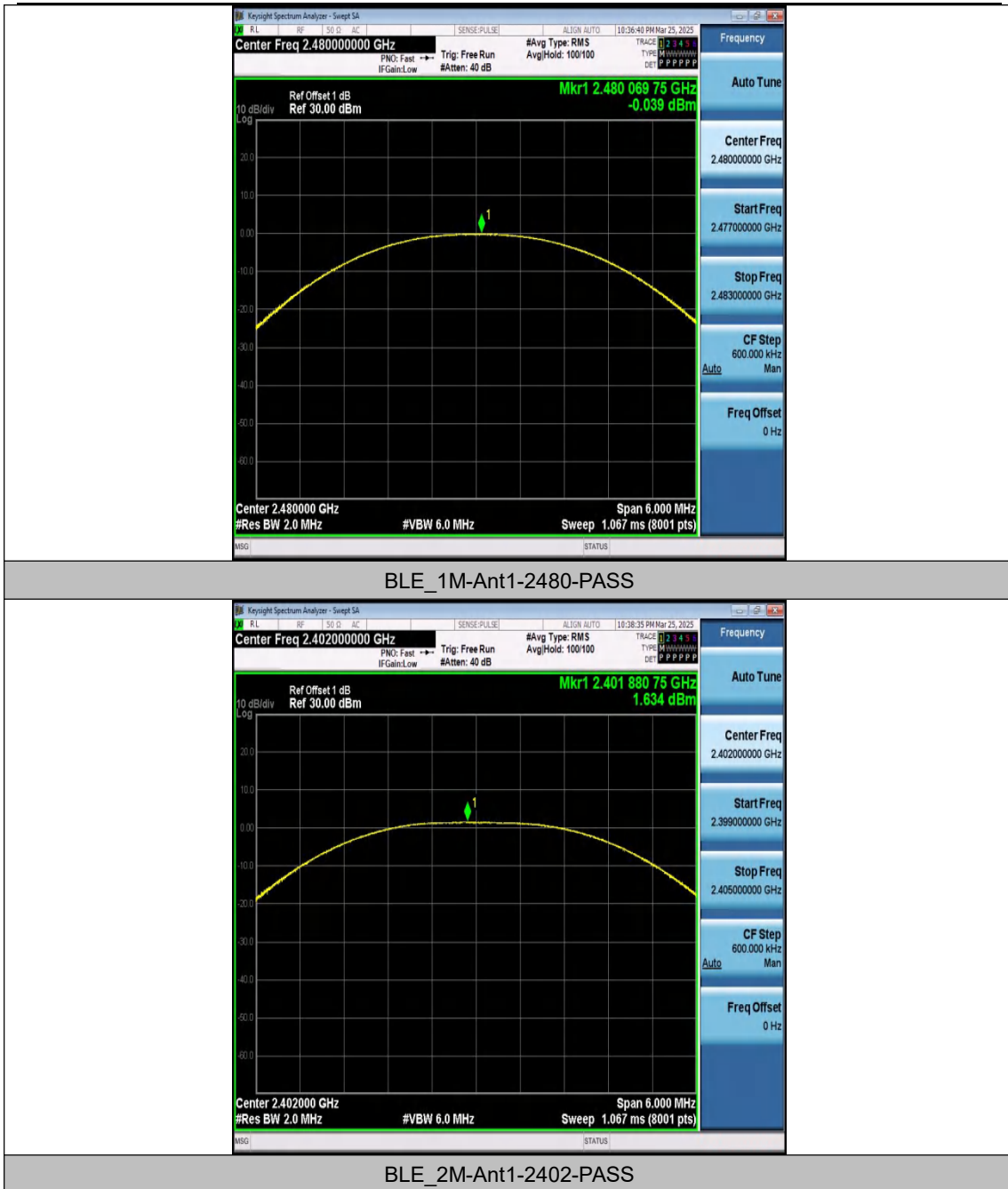
Test Graphs Peak



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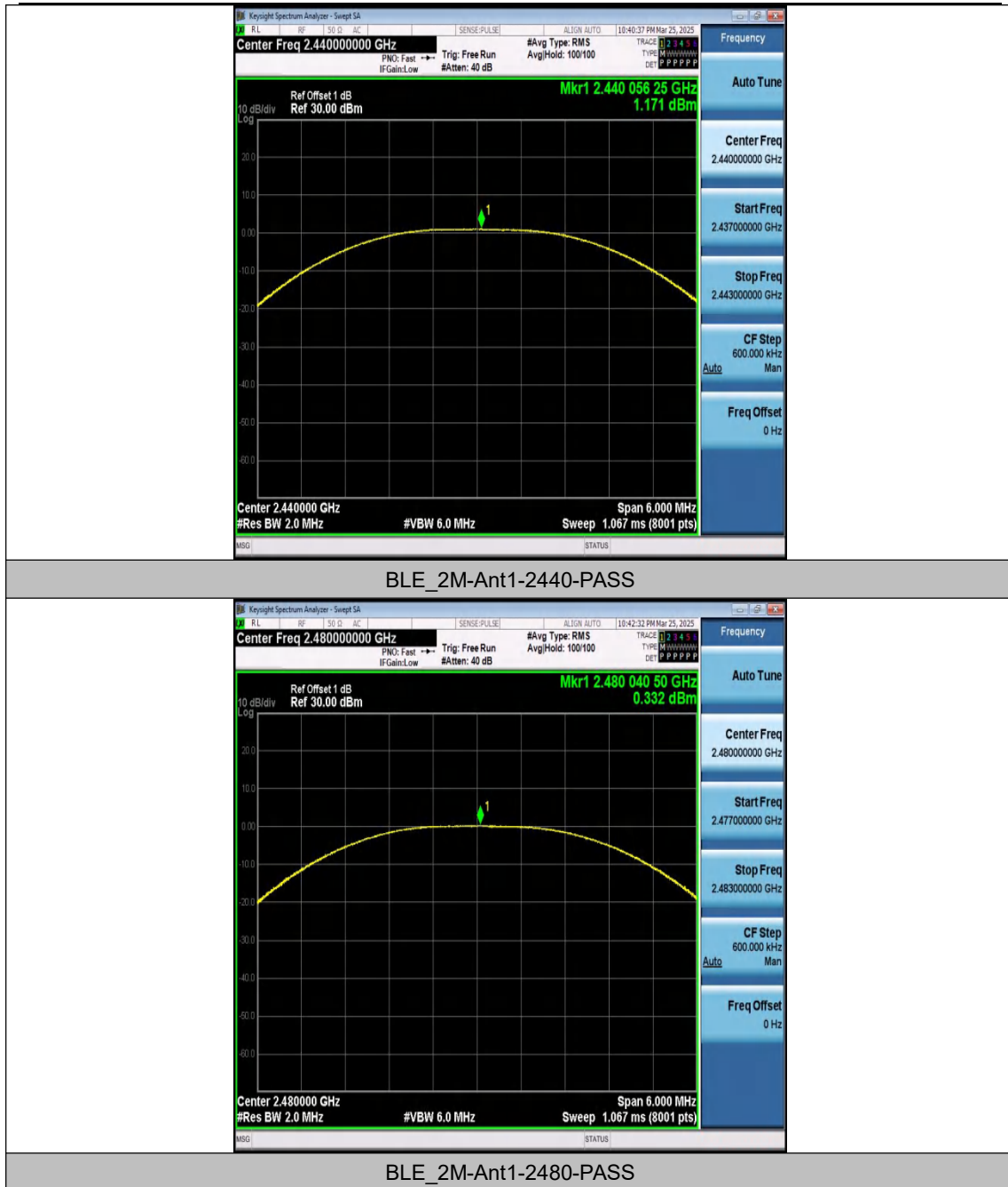
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Appendix D: Maximum power spectral density

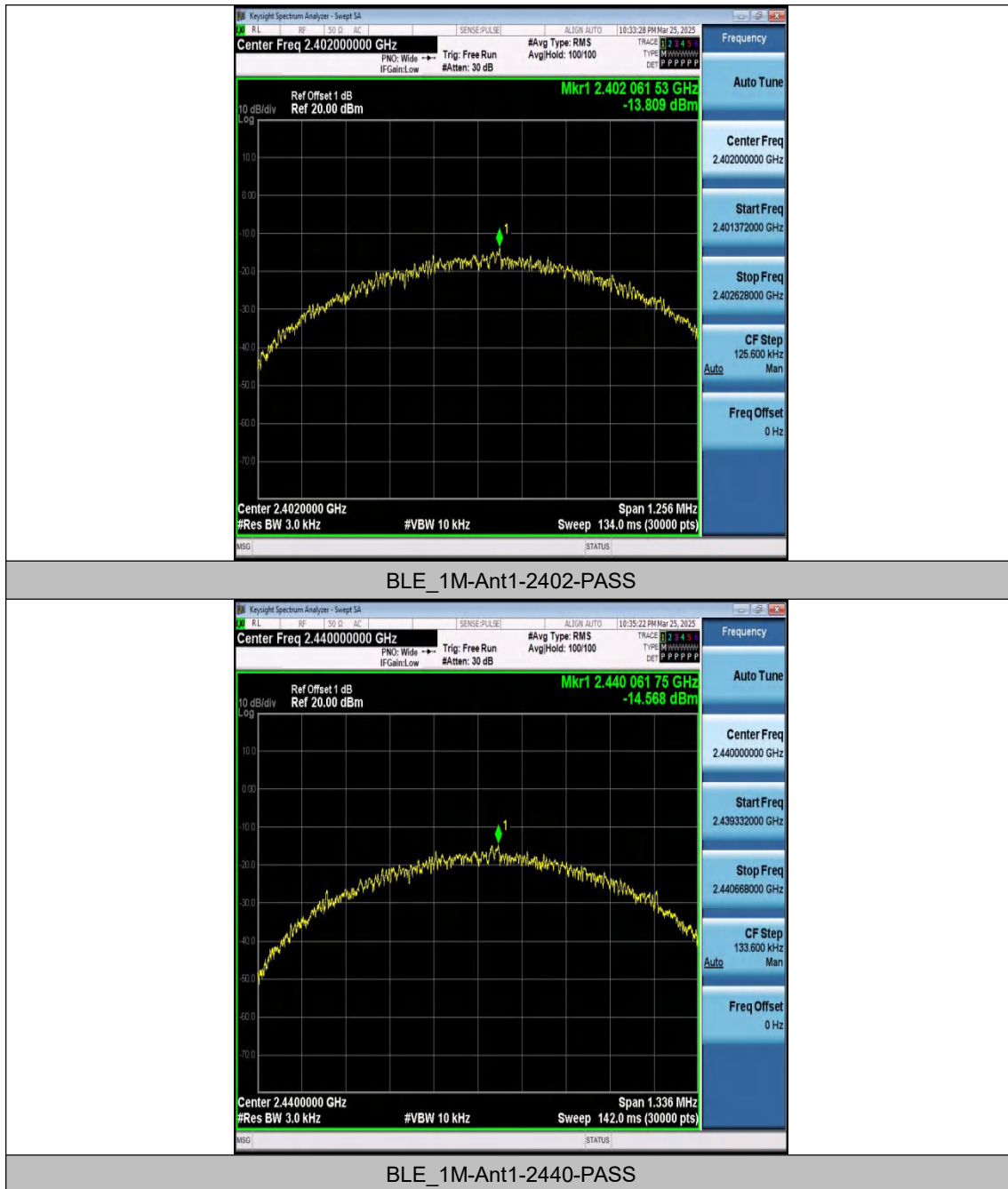
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.81	≤8.00	PASS
BLE_1M	Ant1	2440	-14.57	≤8.00	PASS
BLE_1M	Ant1	2480	-14.24	≤8.00	PASS
BLE_2M	Ant1	2402	-15.57	≤8.00	PASS
BLE_2M	Ant1	2440	-15.74	≤8.00	PASS
BLE_2M	Ant1	2480	-16.60	≤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

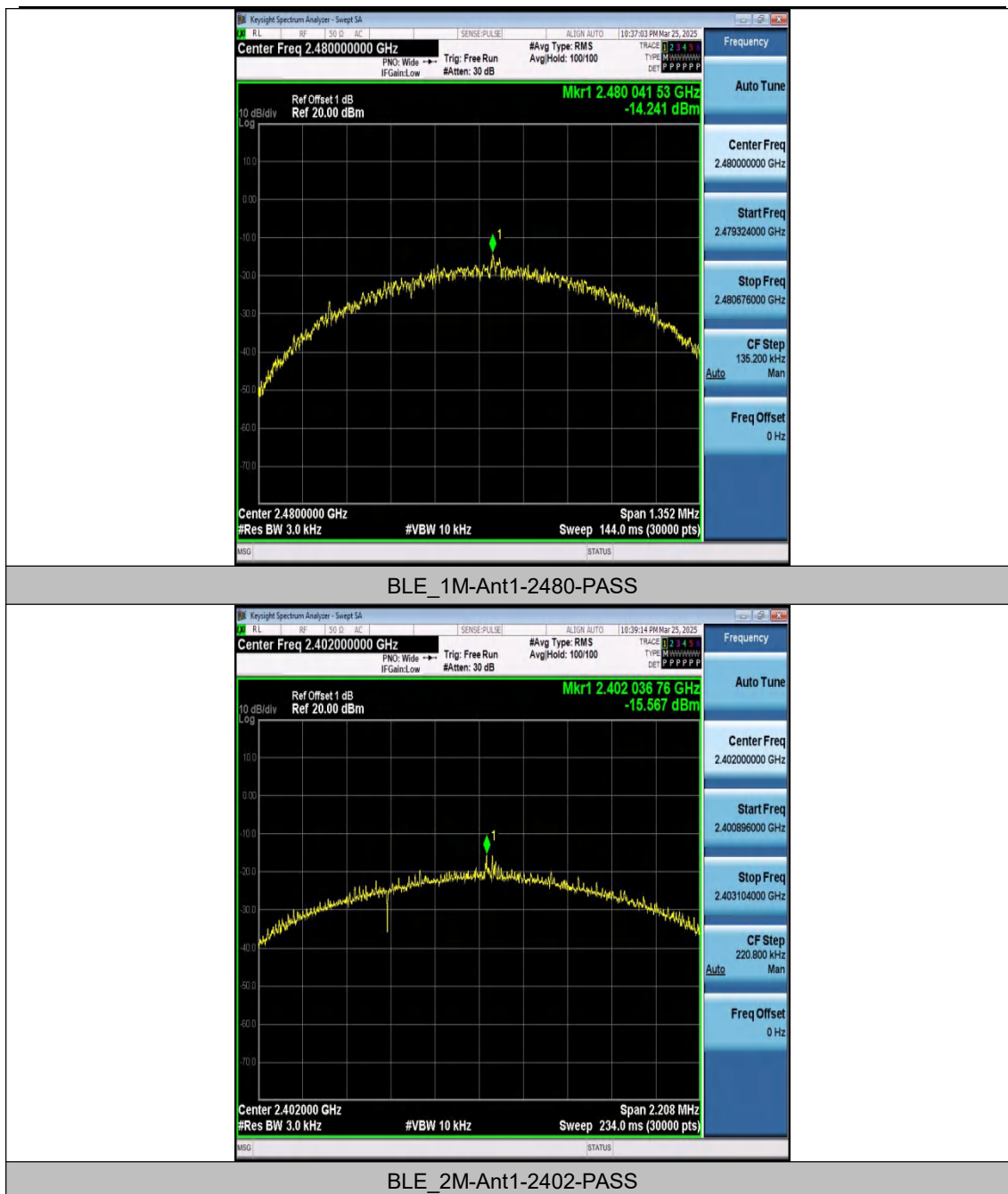


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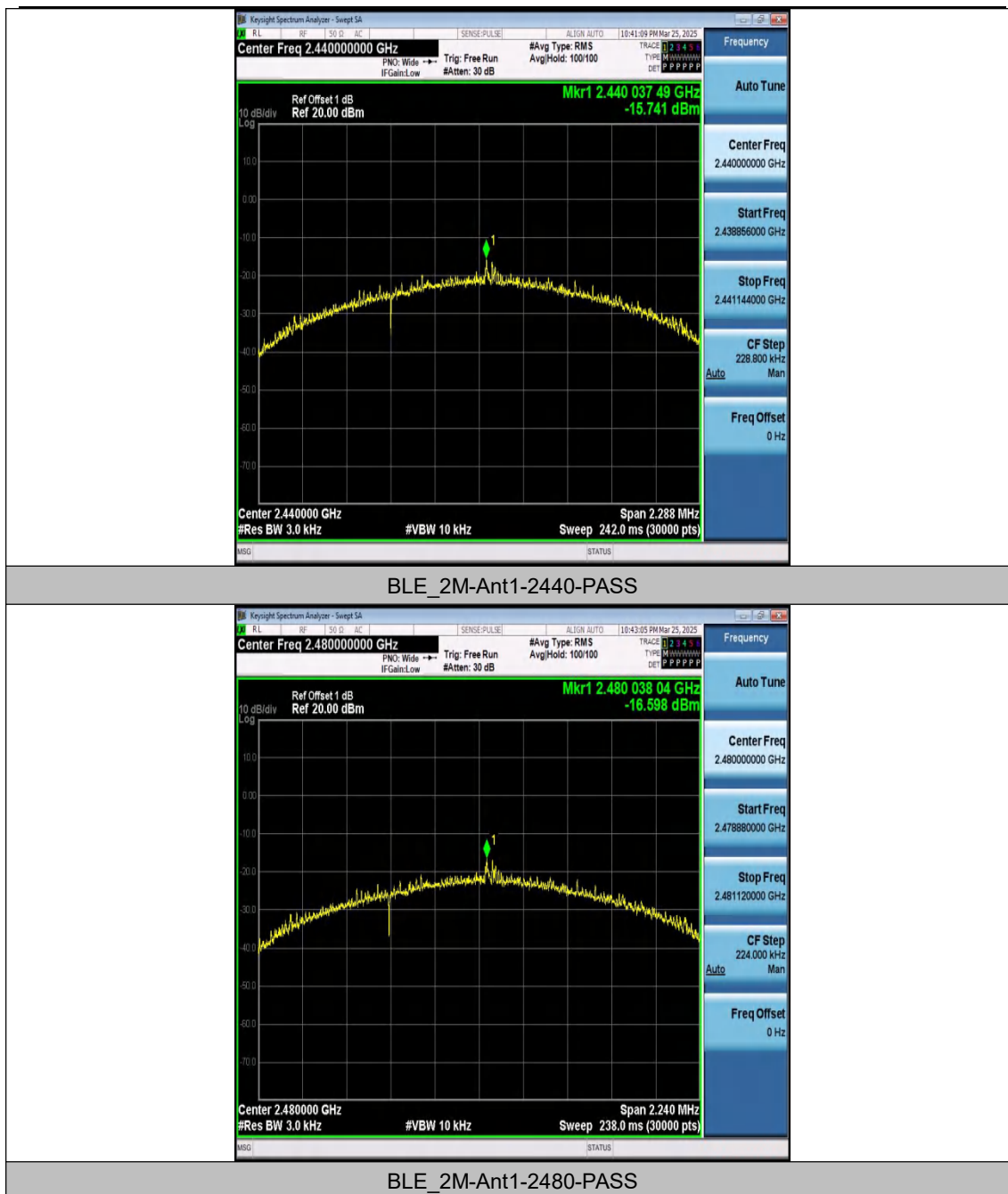


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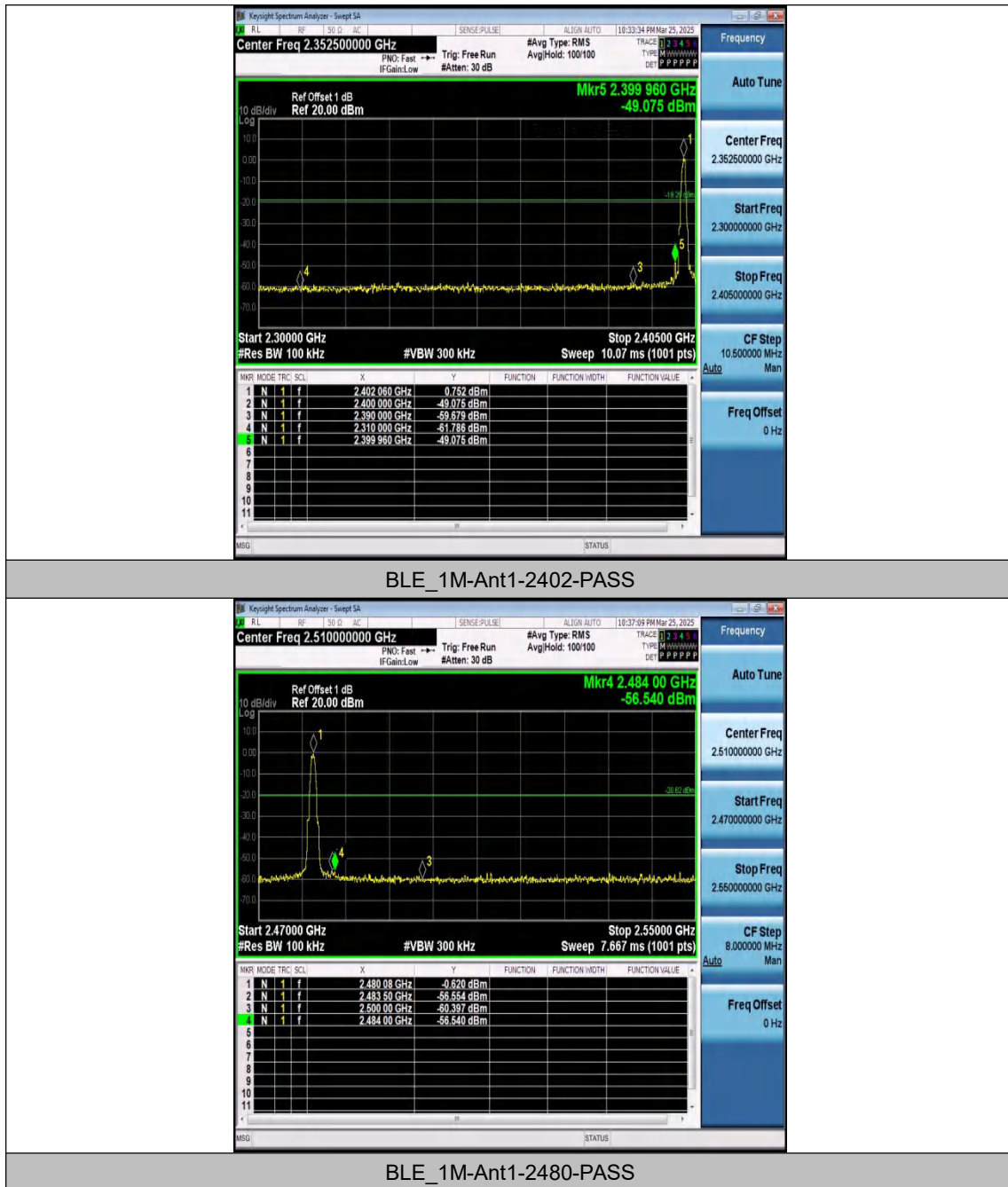
Appendix E: Band edge measurements

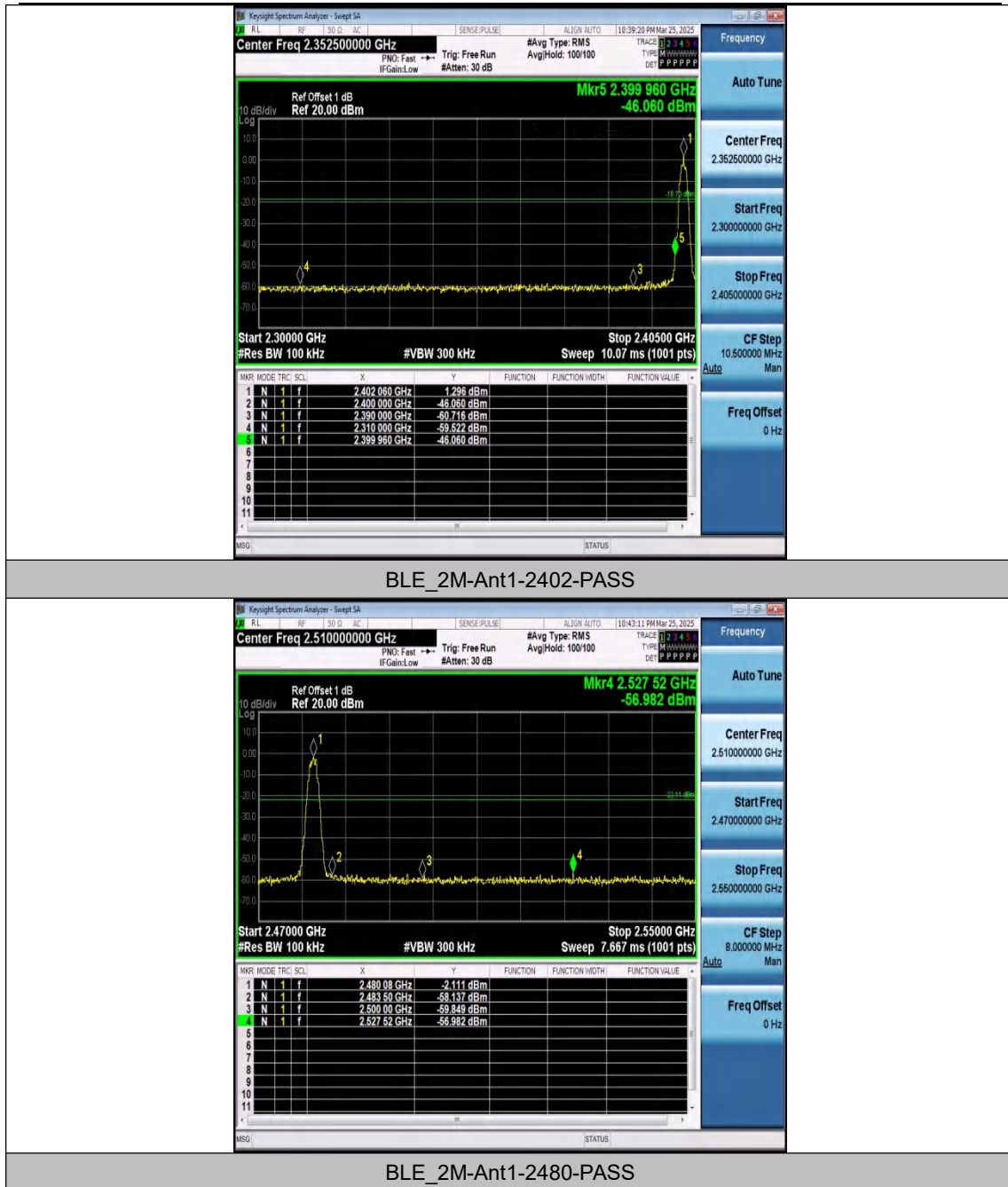
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.75	-49.08	≤-19.25	PASS
BLE_1M	Ant1	High	2480	-0.62	-56.54	≤-20.62	PASS
BLE_2M	Ant1	Low	2402	1.30	-46.06	≤-18.7	PASS
BLE_2M	Ant1	High	2480	-2.11	-56.98	≤-22.11	PASS



Test Graphs





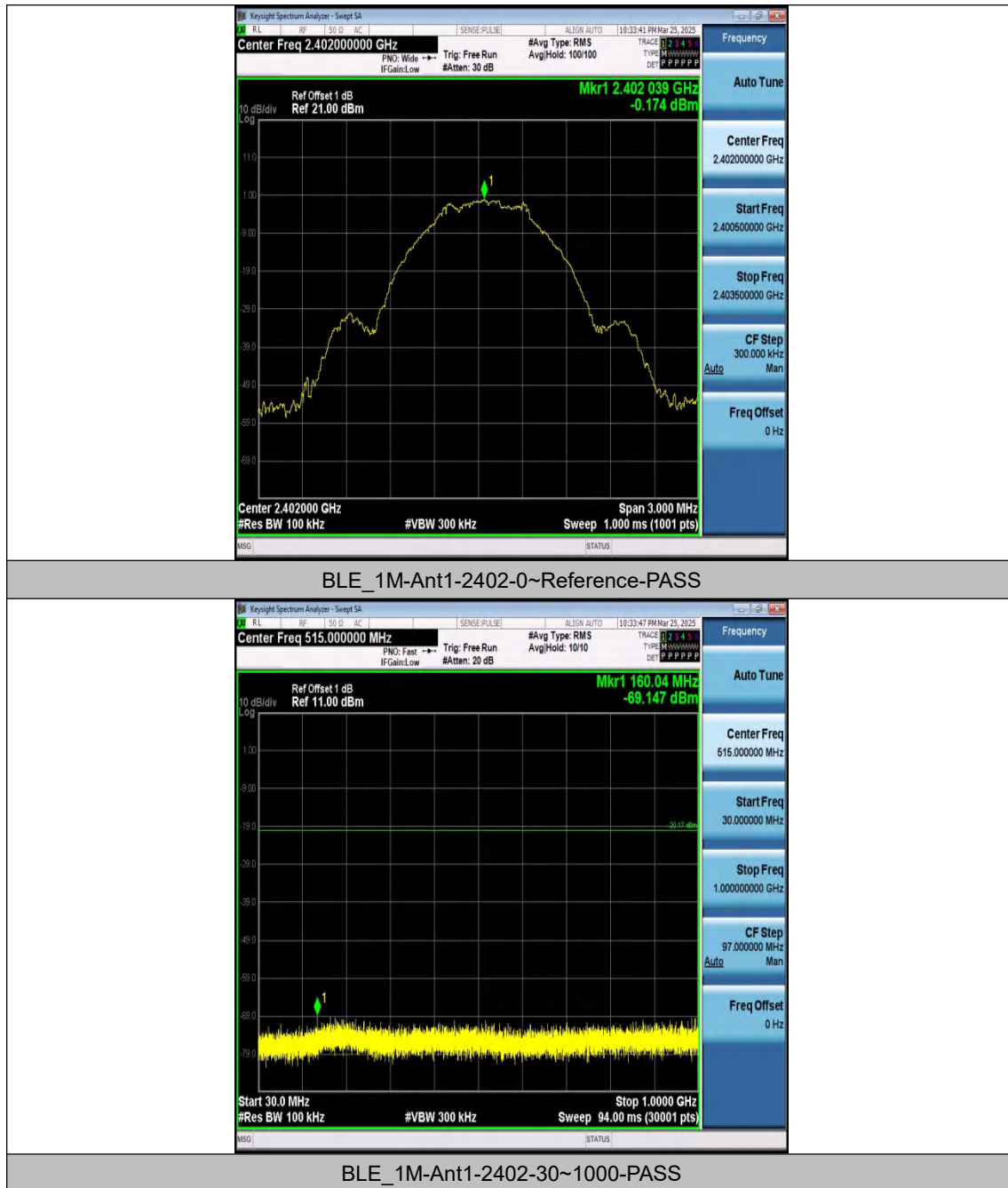
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.17	-0.17	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.17	-69.15	≤-20.17	PASS
BLE_1M	Ant1	2402	1000~26500	-0.17	-53.79	≤-20.17	PASS
BLE_1M	Ant1	2440	0~Reference	-0.52	-0.52	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.52	-69.38	≤-20.52	PASS
BLE_1M	Ant1	2440	1000~26500	-0.52	-53.94	≤-20.52	PASS
BLE_1M	Ant1	2480	0~Reference	-0.37	-0.37	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.37	-69.53	≤-20.37	PASS
BLE_1M	Ant1	2480	1000~26500	-0.37	-53.5	≤-20.37	PASS
BLE_2M	Ant1	2402	0~Reference	0.92	0.92	---	PASS
BLE_2M	Ant1	2402	30~1000	0.92	-68.46	≤-19.08	PASS
BLE_2M	Ant1	2402	1000~26500	0.92	-53.38	≤-19.08	PASS
BLE_2M	Ant1	2440	0~Reference	-2.13	-2.13	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.13	-68.46	≤-22.13	PASS
BLE_2M	Ant1	2440	1000~26500	-2.13	-53.37	≤-22.13	PASS
BLE_2M	Ant1	2480	0~Reference	0.25	0.25	---	PASS
BLE_2M	Ant1	2480	30~1000	0.25	-68.97	≤-19.75	PASS
BLE_2M	Ant1	2480	1000~26500	0.25	-53.37	≤-19.75	PASS



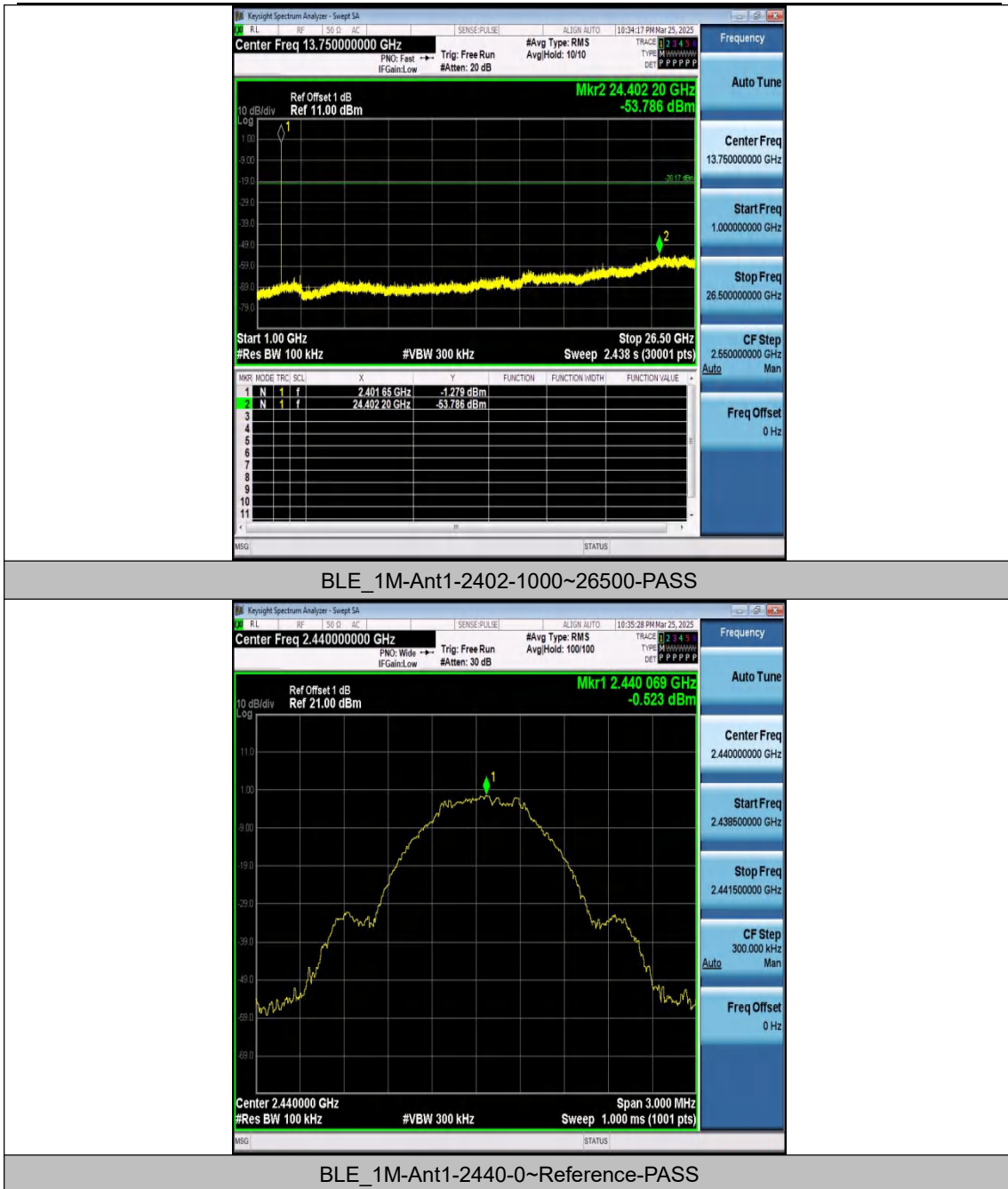
Test Graphs



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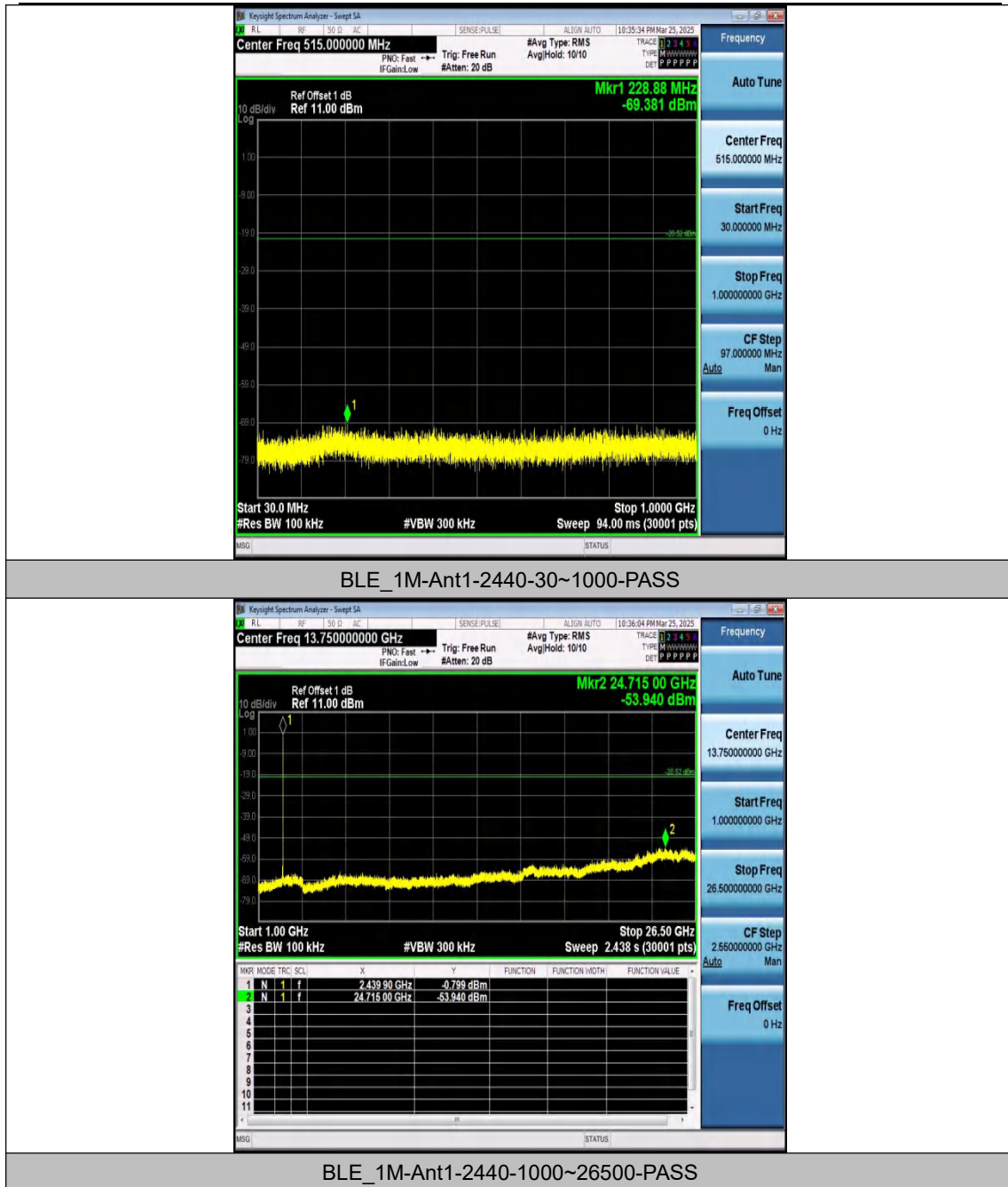
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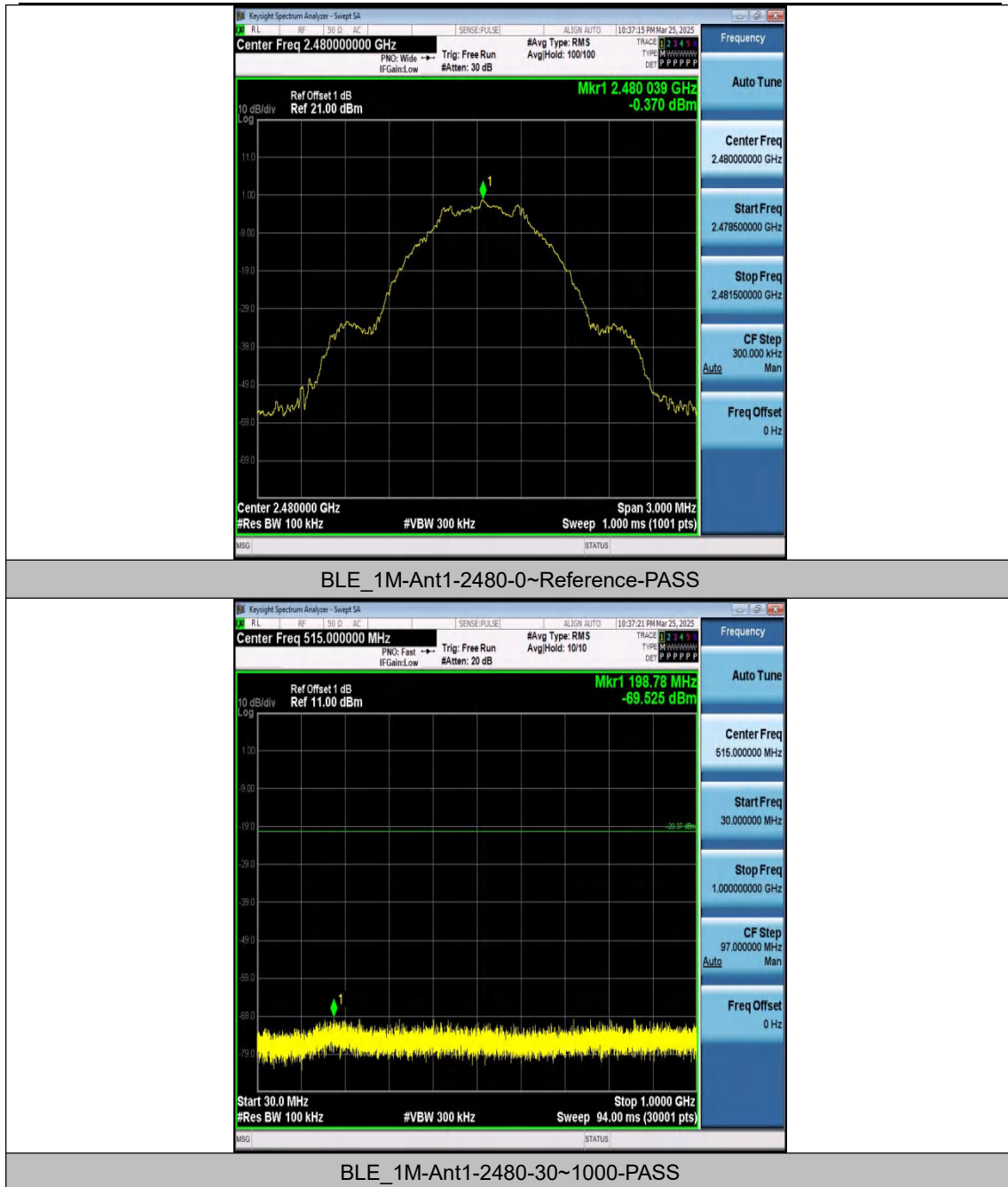
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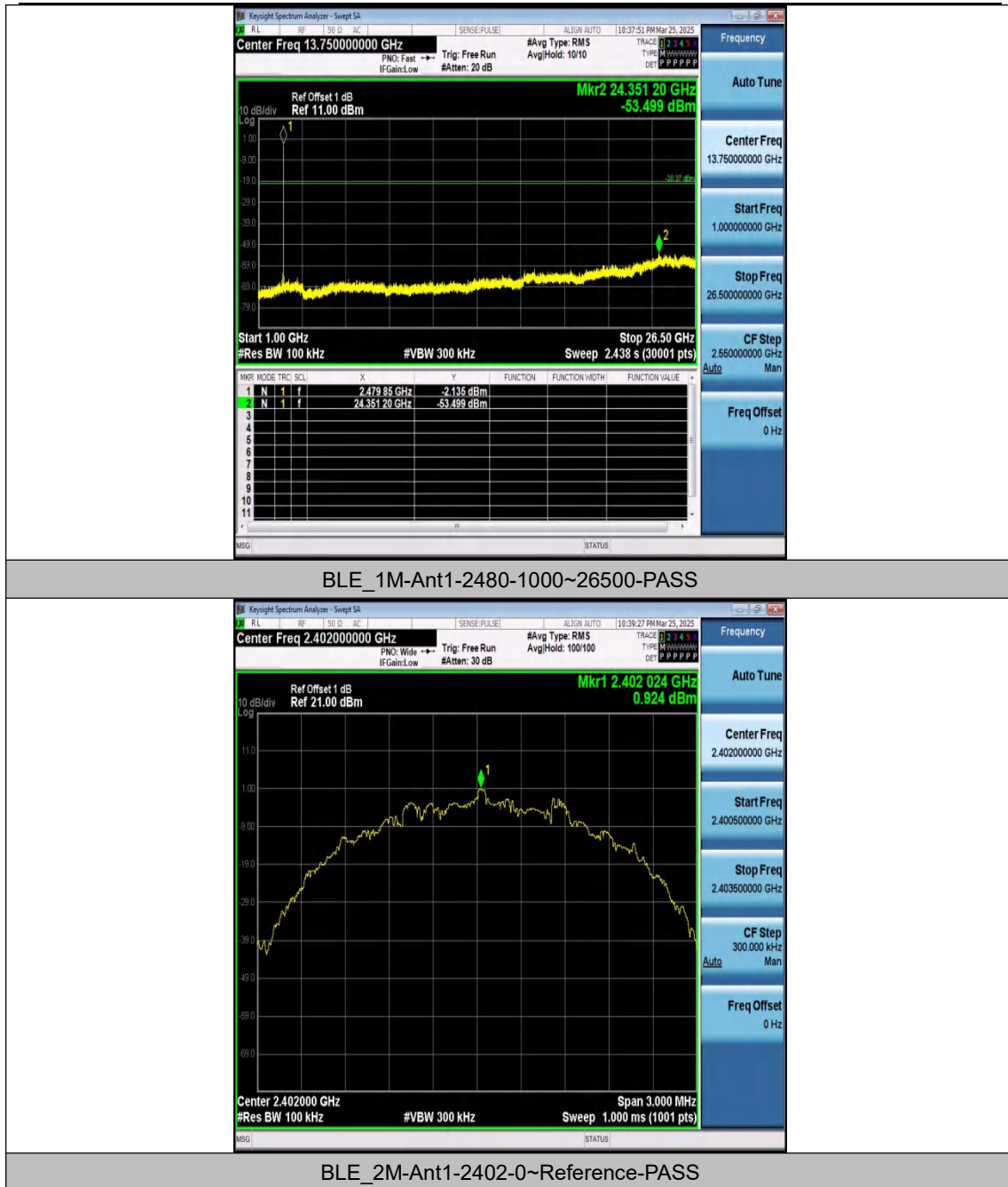
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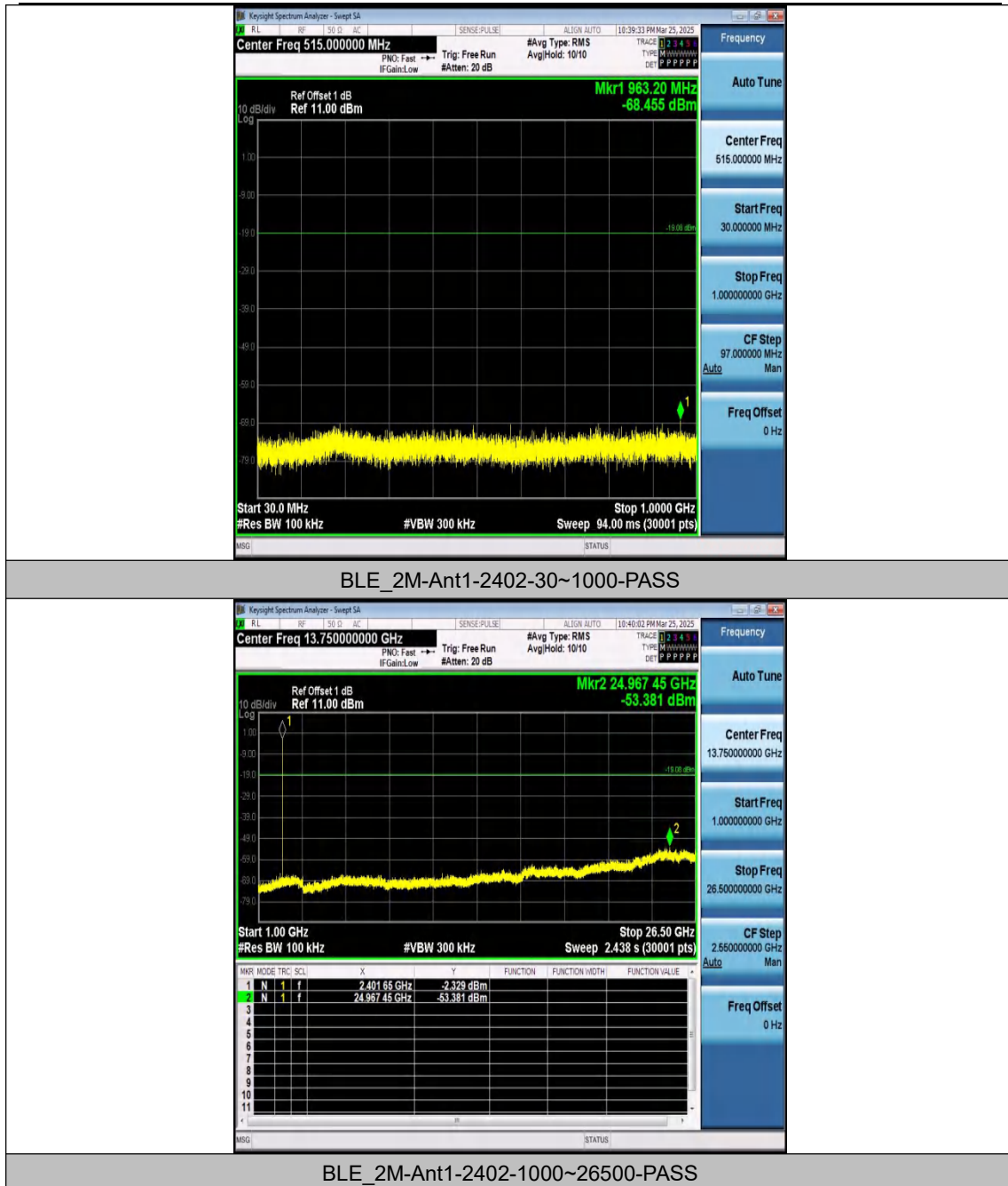


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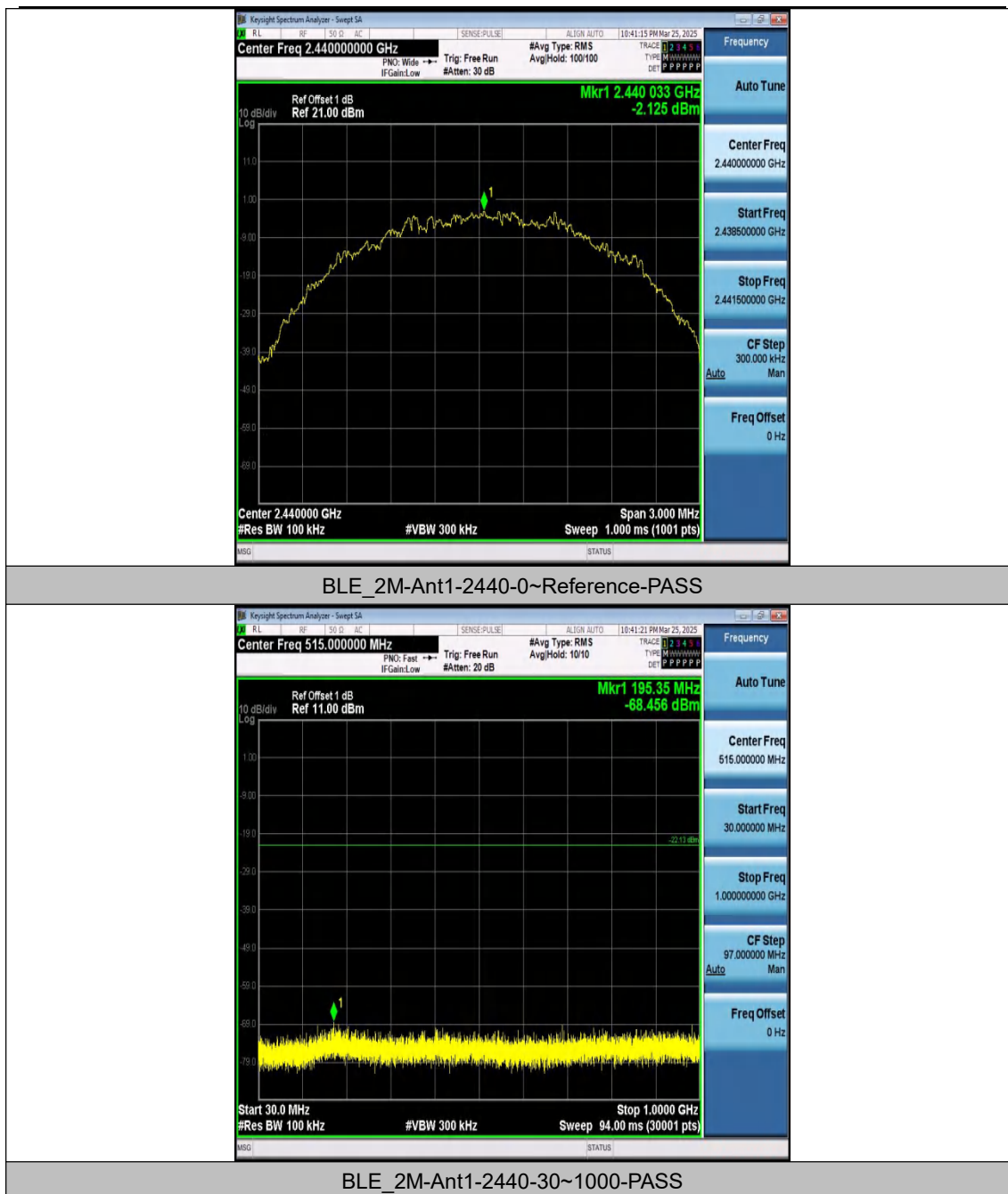
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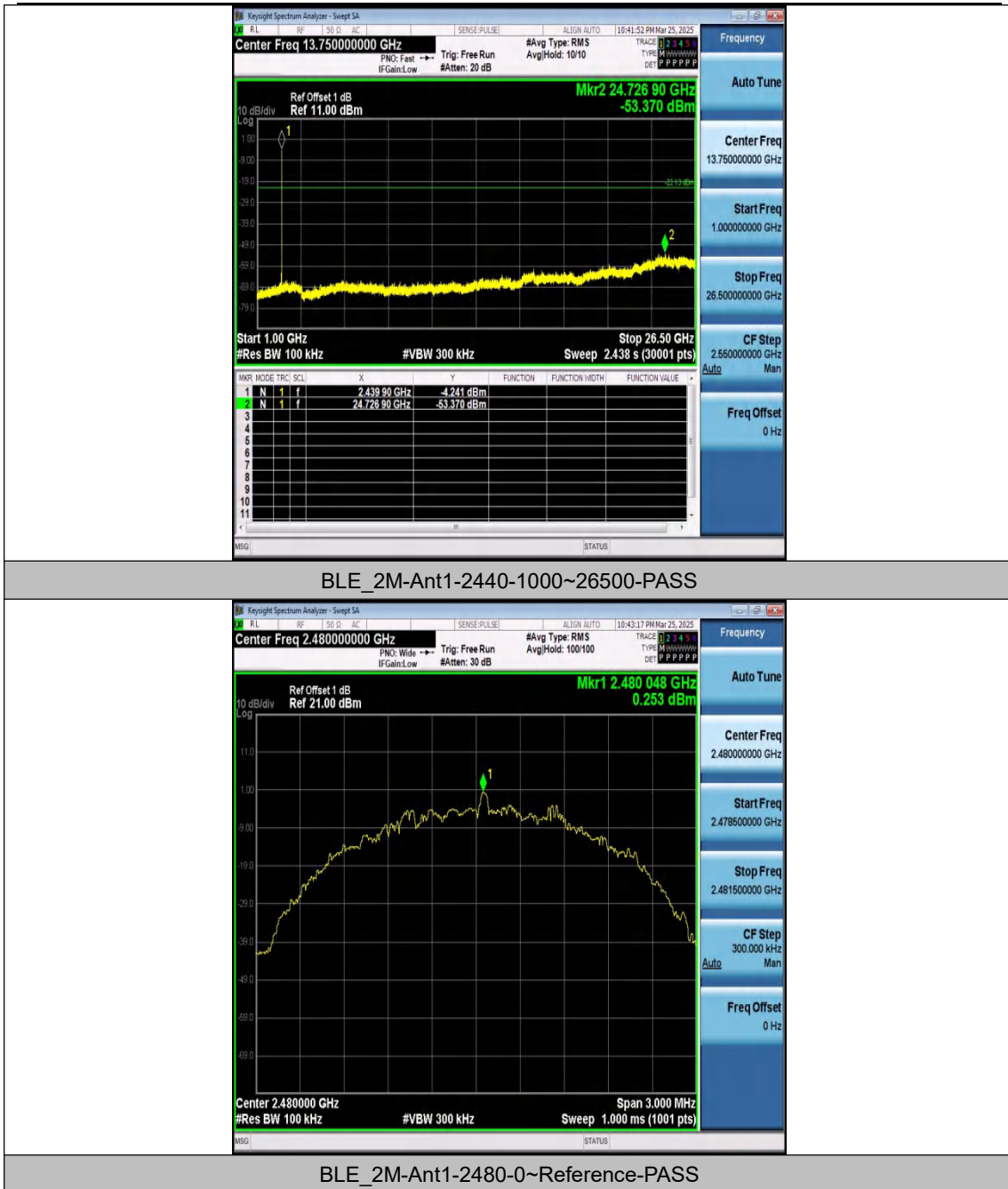


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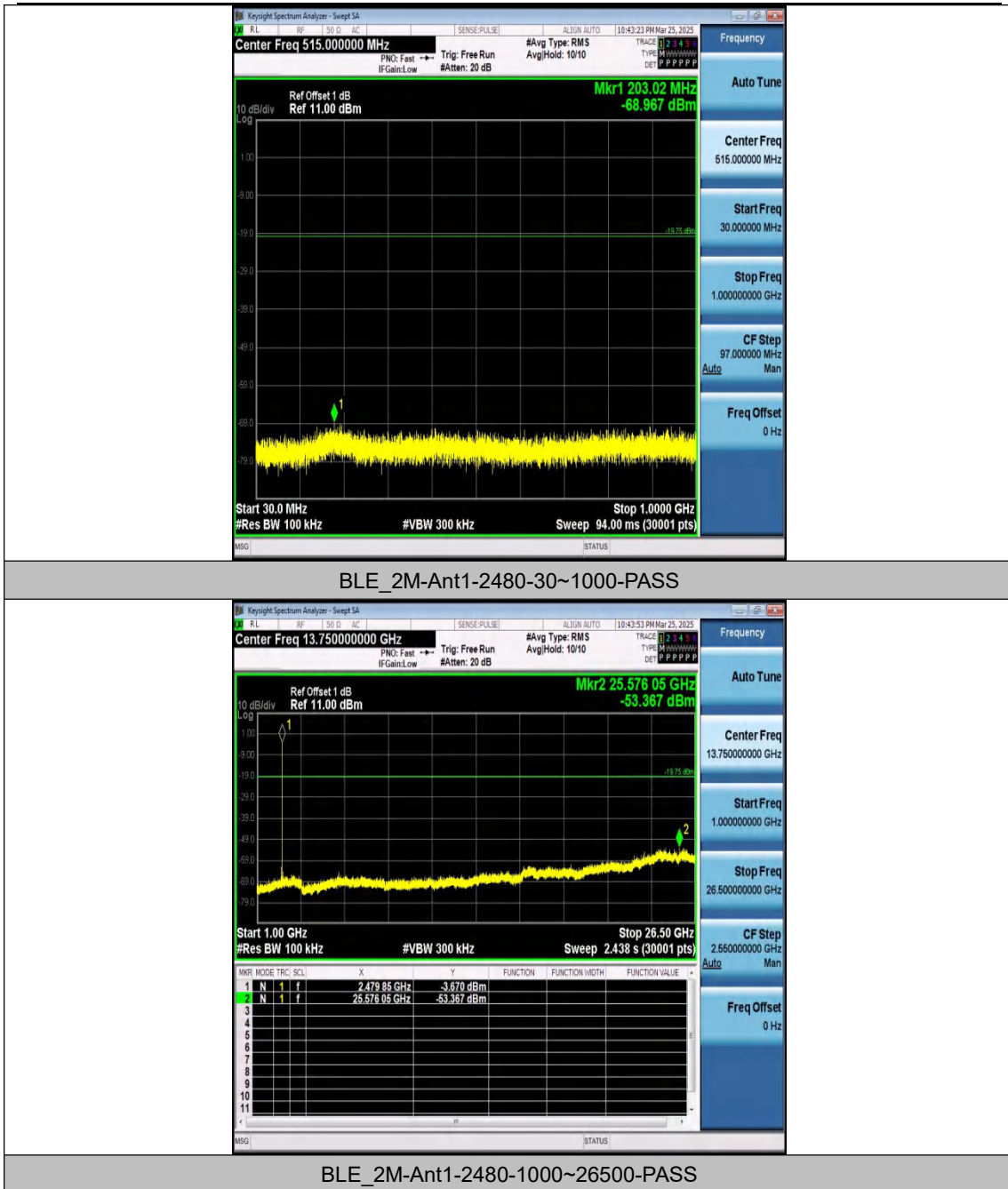
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.51	83.67	0.77
BLE_1M	Ant1	2480	2.09	2.49	83.94	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.88	56.38	2.49

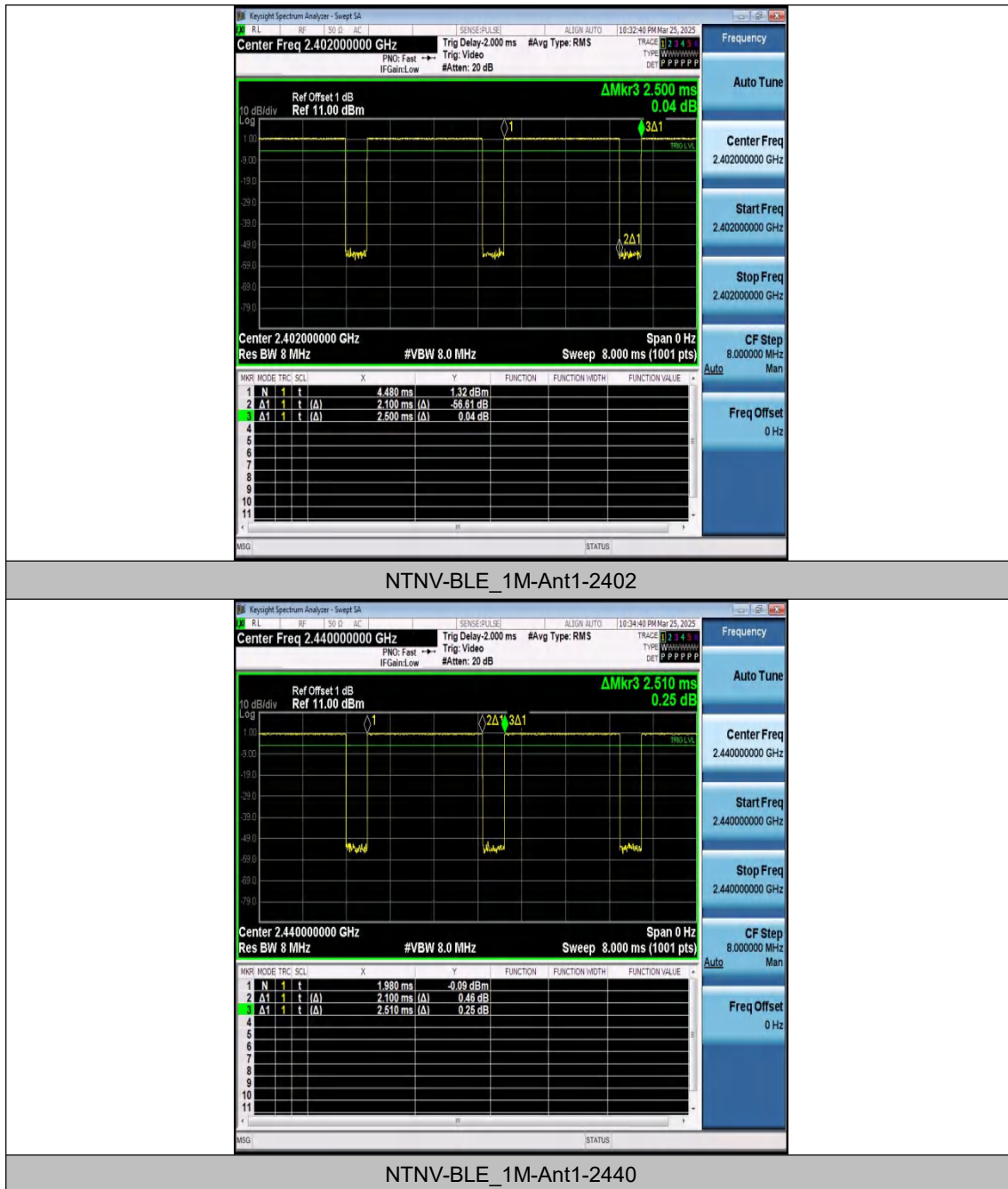
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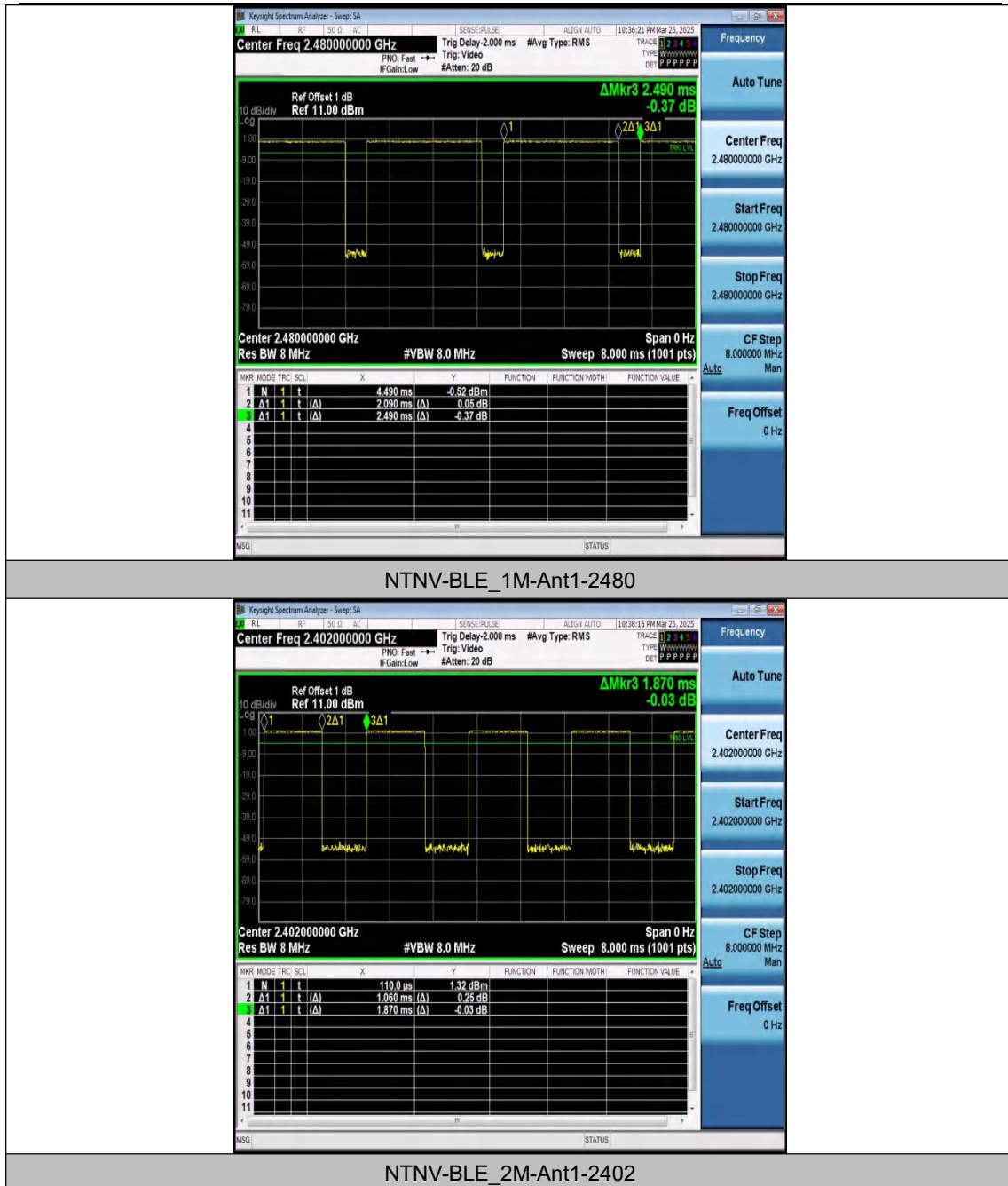
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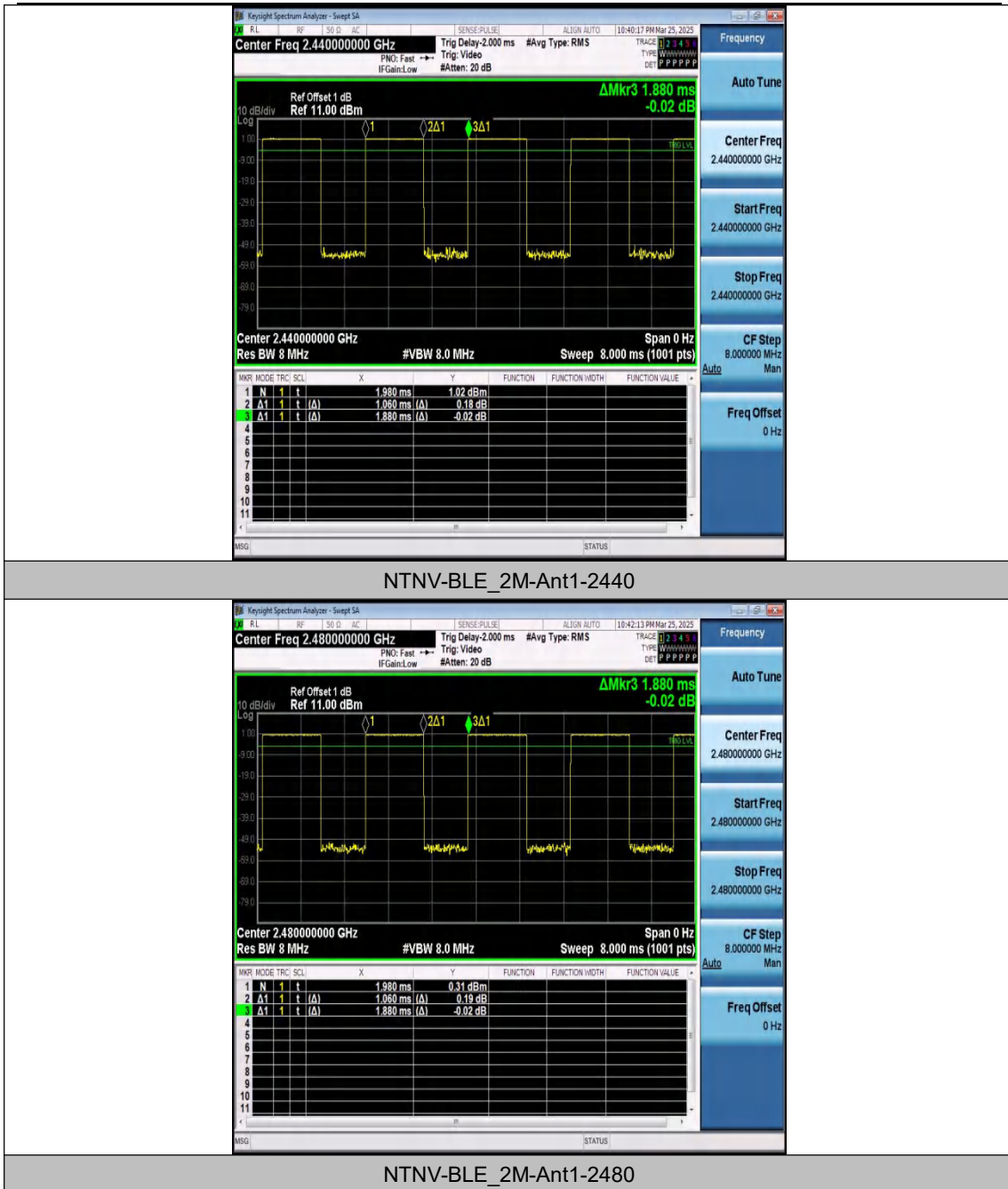


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Test Graphs







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