

Appendix Test Data

Report No.:	1812C50133012502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-18	Finish Test Date:	2025-04-18
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26°C	Relative Humidity:	48%
Pressure:	101kPa		

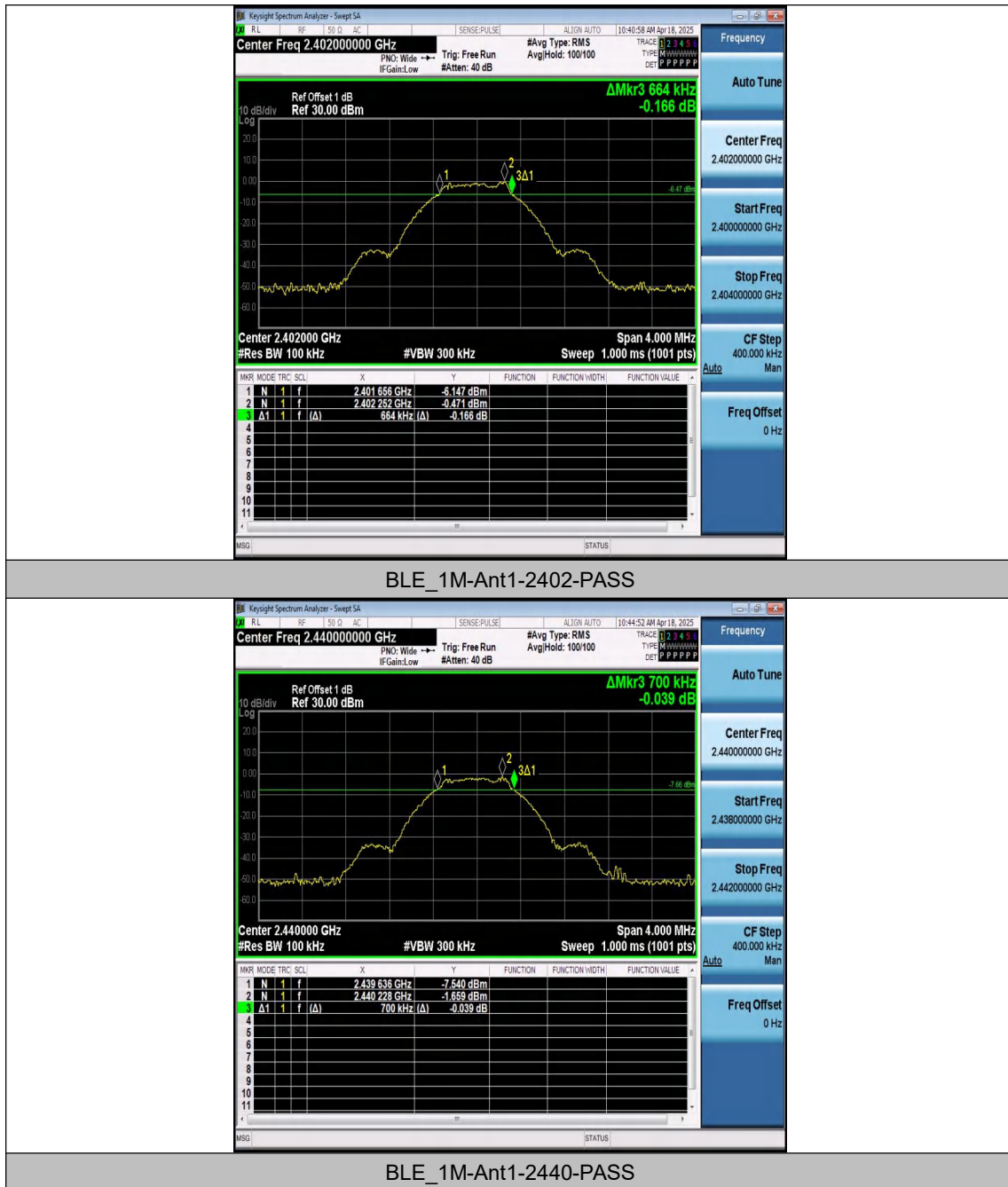
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.656	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.636	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.660	2480.312	0.5	PASS
BLE_2M	Ant1	2402	1.164	2401.416	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.240	2439.336	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.252	2479.332	2480.584	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	1.0217	2401.4758	2402.4975	---	---
BLE_1M	Ant1	2440	1.0324	2439.4720	2440.5044	---	---
BLE_1M	Ant1	2480	1.0320	2479.4720	2480.5040	---	---
BLE_2M	Ant1	2402	2.0655	2400.9672	2403.0327	---	---
BLE_2M	Ant1	2440	2.0685	2438.9716	2441.0401	---	---
BLE_2M	Ant1	2480	2.0652	2478.9701	2481.0353	---	---

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Test Graphs



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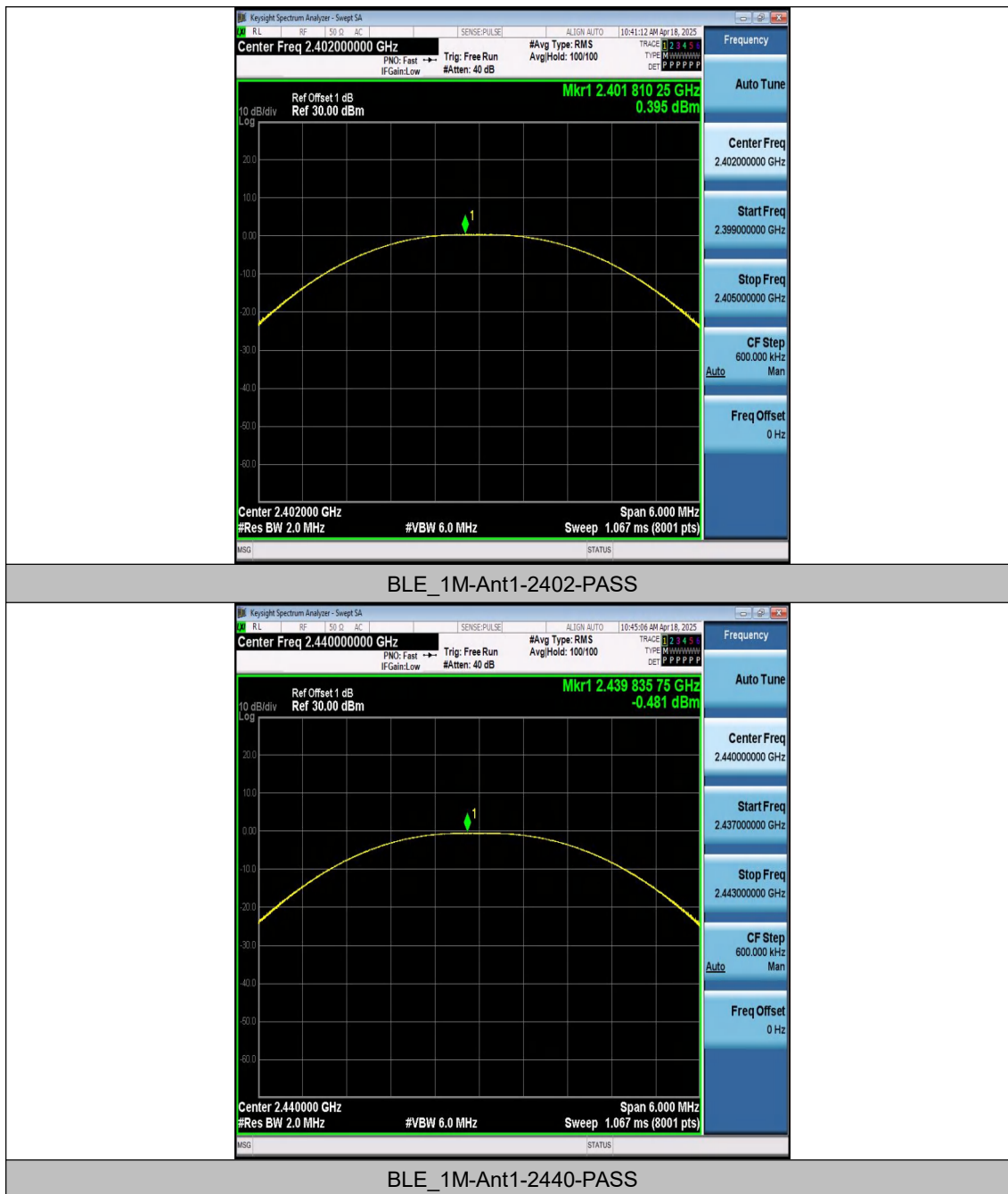


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.40	≤30	PASS
BLE_1M	Ant1	2440	-0.48	≤30	PASS
BLE_1M	Ant1	2480	-1.26	≤30	PASS
BLE_2M	Ant1	2402	0.56	≤30	PASS
BLE_2M	Ant1	2440	-0.33	≤30	PASS
BLE_2M	Ant1	2480	-1.11	≤30	PASS

Test Graphs Peak

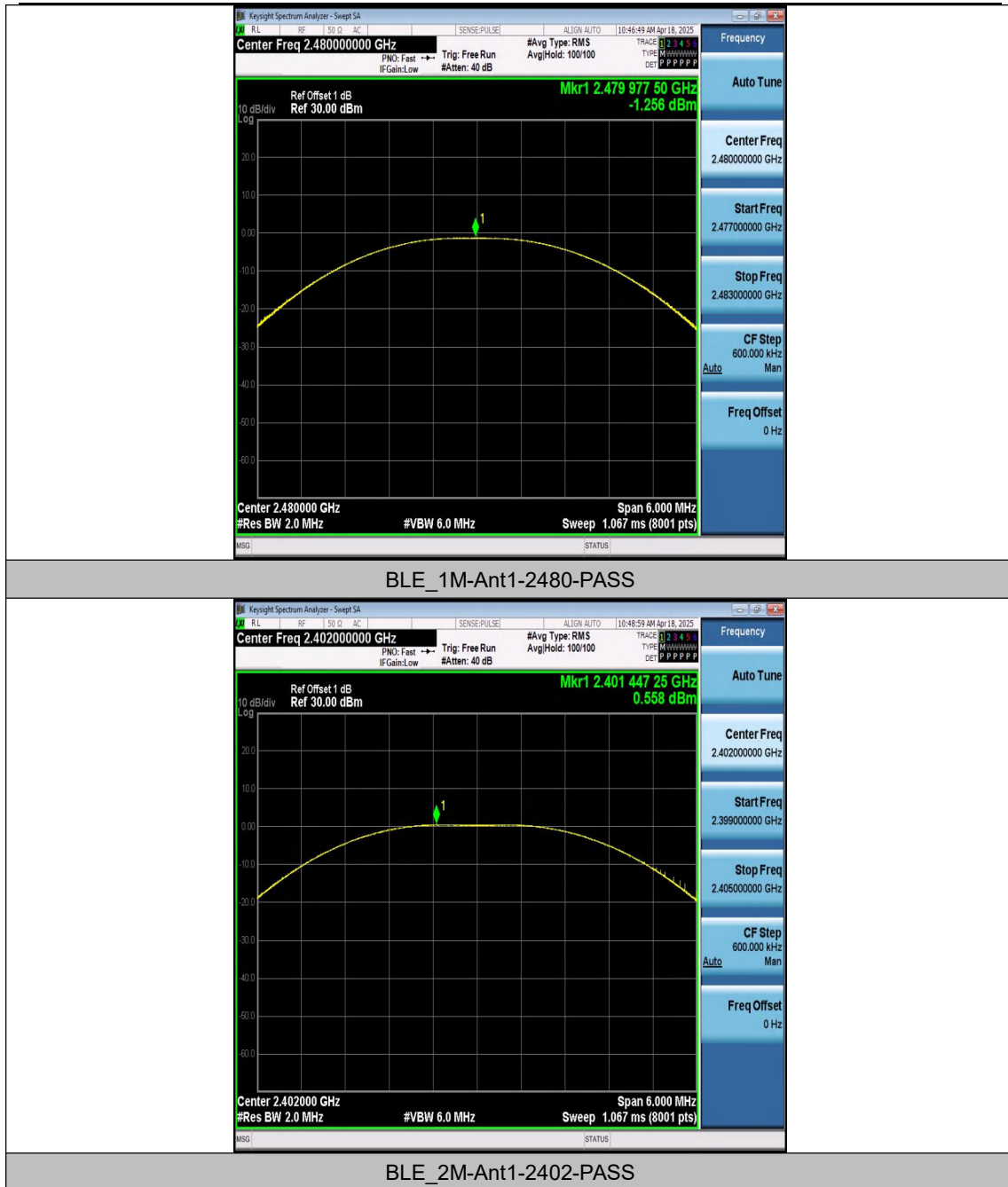


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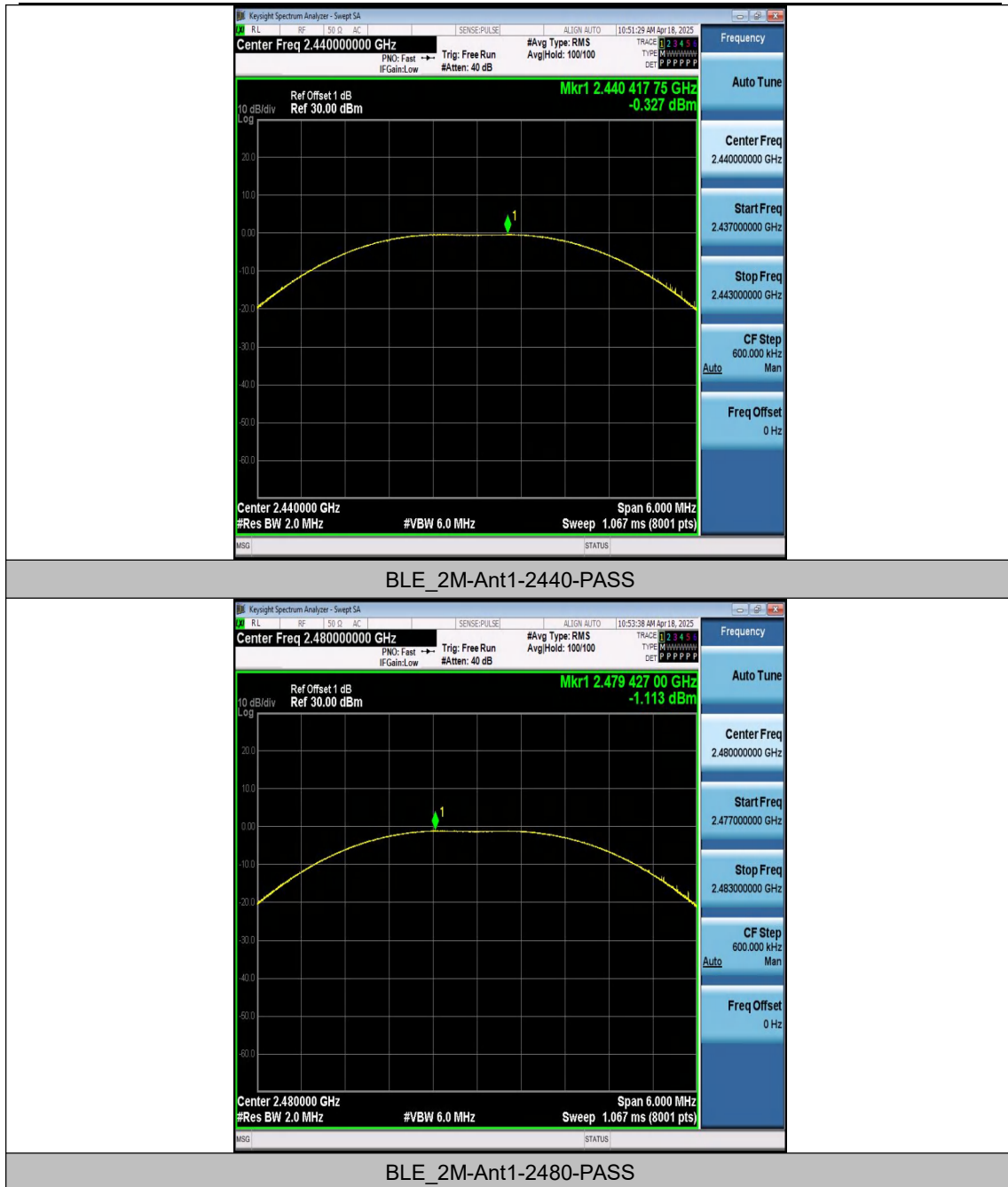


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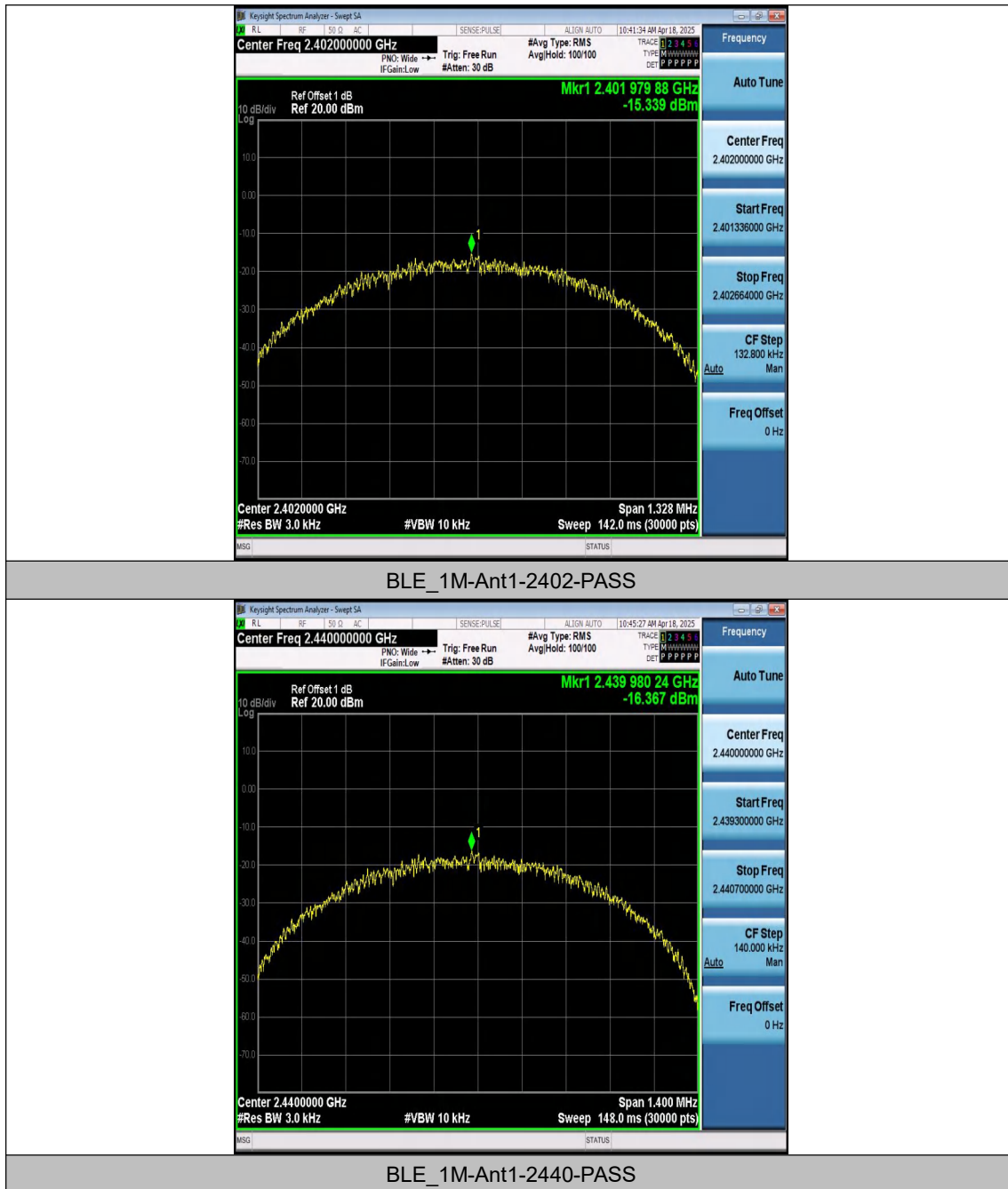
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.34	≤8.00	PASS
BLE_1M	Ant1	2440	-16.37	≤8.00	PASS
BLE_1M	Ant1	2480	-17.32	≤8.00	PASS
BLE_2M	Ant1	2402	-18.96	≤8.00	PASS
BLE_2M	Ant1	2440	-19.85	≤8.00	PASS
BLE_2M	Ant1	2480	-20.61	≤8.00	PASS

Test Graphs

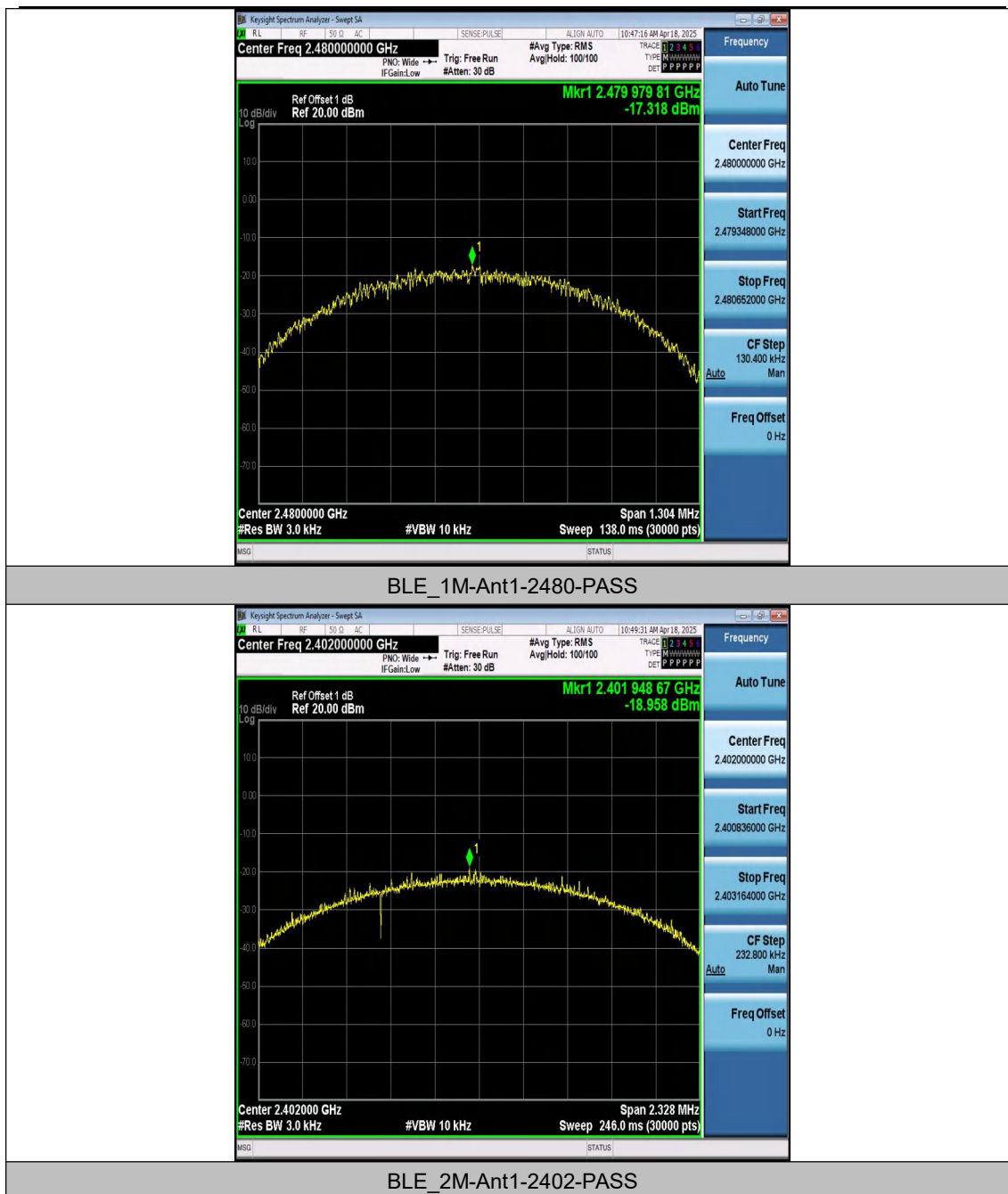


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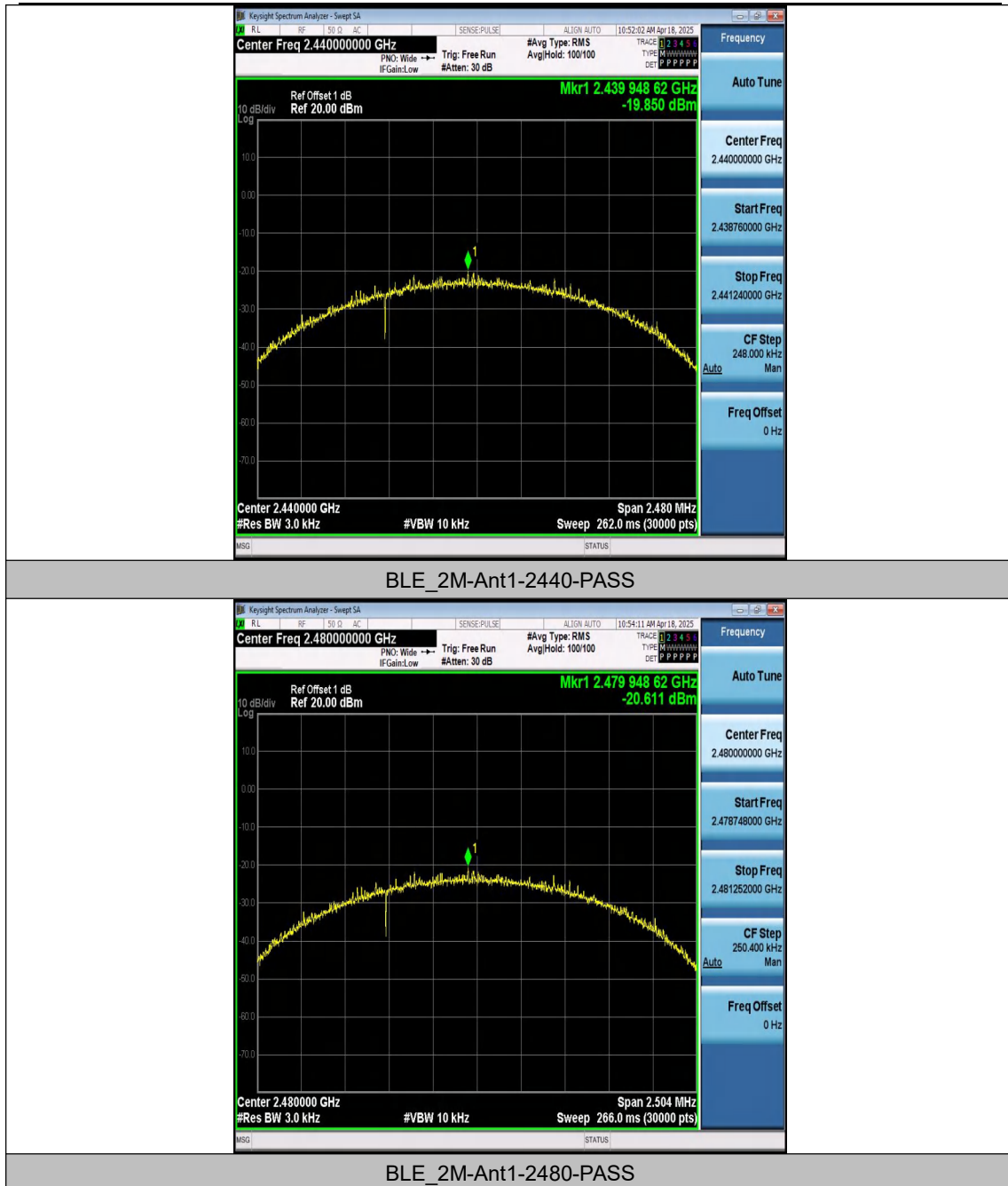


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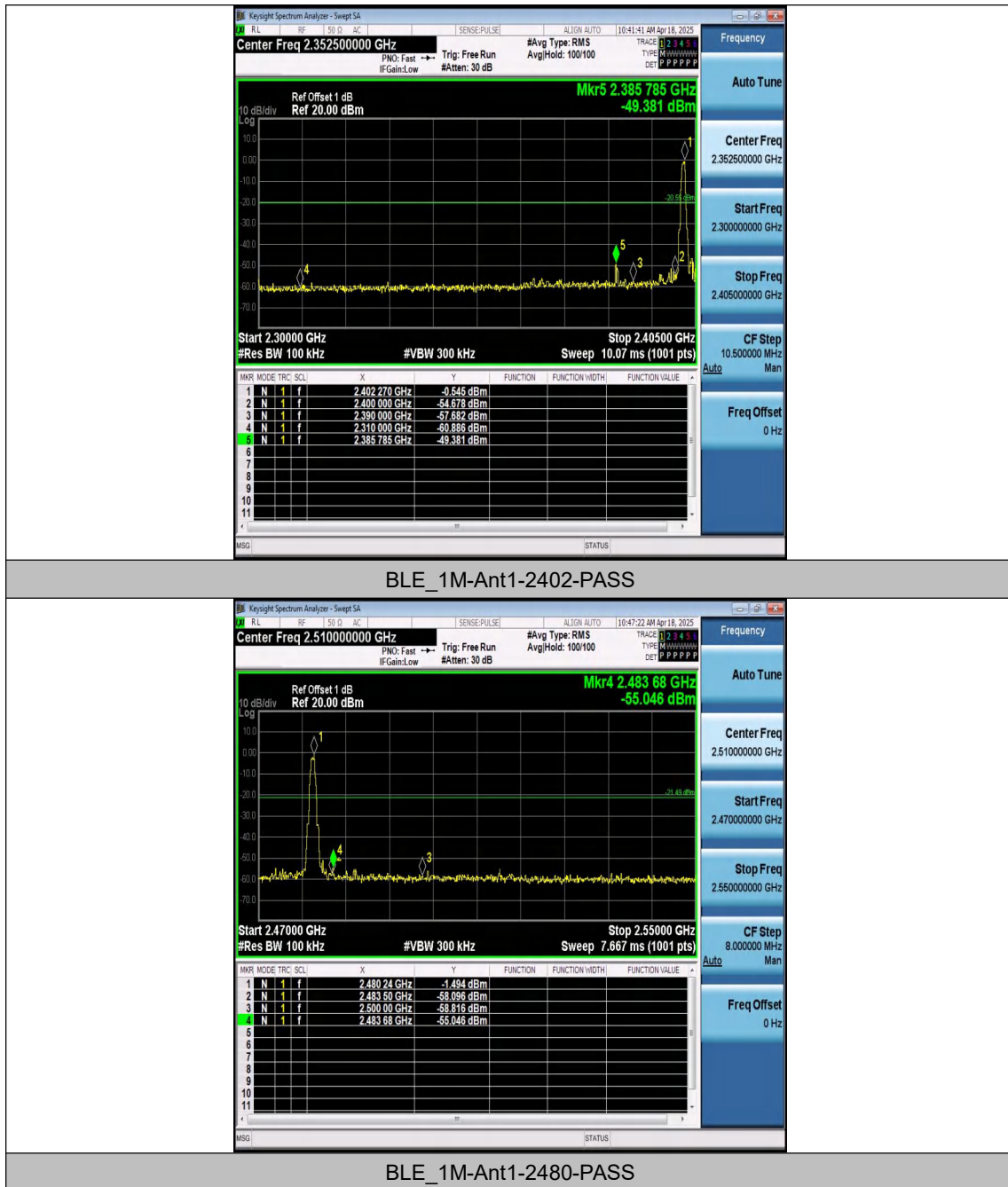
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.55	-49.38	≤-20.55	PASS
BLE_1M	Ant1	High	2480	-1.49	-55.05	≤-21.49	PASS
BLE_2M	Ant1	Low	2402	-2.22	-35.62	≤-22.22	PASS
BLE_2M	Ant1	High	2480	-2.50	-49.54	≤-22.5	PASS



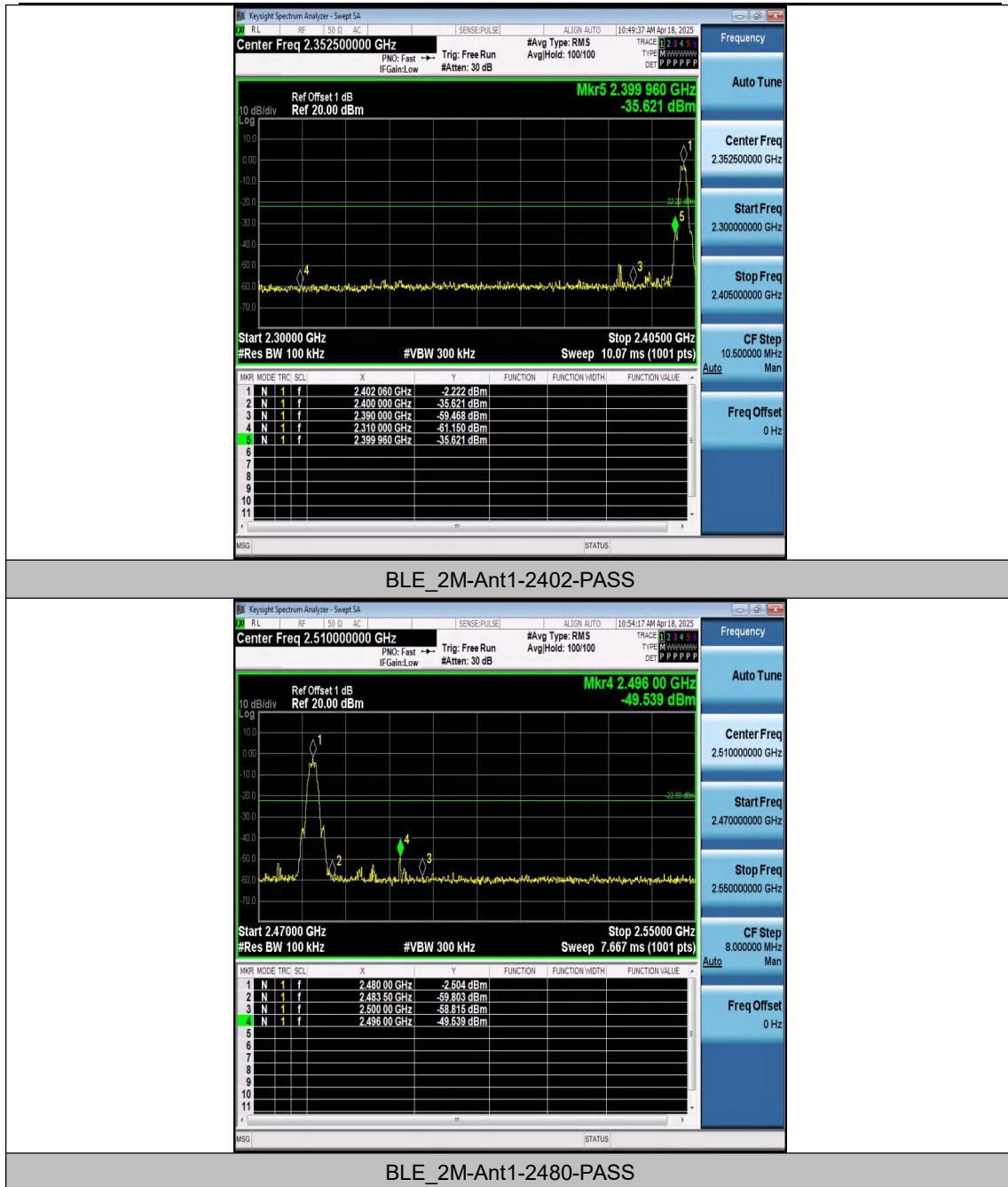
Test Graphs



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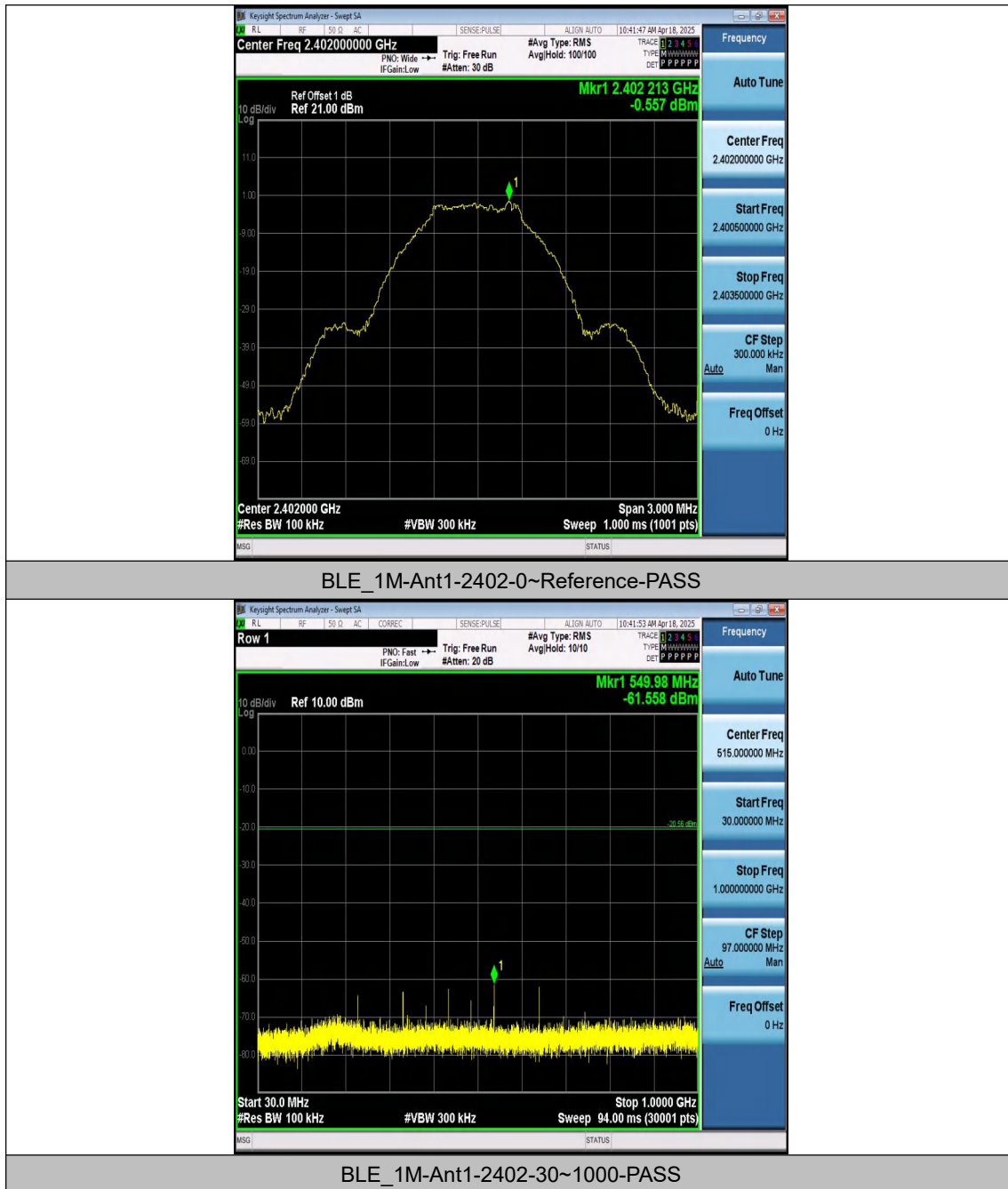
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.56	-0.56	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.56	-61.56	≤-20.56	PASS
BLE_1M	Ant1	2402	1000~26500	-0.56	-53.81	≤-20.56	PASS
BLE_1M	Ant1	2440	0~Reference	-1.27	-1.27	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.27	-60.59	≤-21.27	PASS
BLE_1M	Ant1	2440	1000~26500	-1.27	-53.26	≤-21.27	PASS
BLE_1M	Ant1	2480	0~Reference	-1.56	-1.56	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.56	-61.18	≤-21.56	PASS
BLE_1M	Ant1	2480	1000~26500	-1.56	-50.24	≤-21.56	PASS
BLE_2M	Ant1	2402	0~Reference	-0.98	-0.98	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.98	-61.17	≤-20.98	PASS
BLE_2M	Ant1	2402	1000~26500	-0.98	-53.42	≤-20.98	PASS
BLE_2M	Ant1	2440	0~Reference	-1.74	-1.74	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.74	-61.52	≤-21.74	PASS
BLE_2M	Ant1	2440	1000~26500	-1.74	-53.46	≤-21.74	PASS
BLE_2M	Ant1	2480	0~Reference	-2.56	-2.56	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.56	-61.21	≤-22.56	PASS
BLE_2M	Ant1	2480	1000~26500	-2.56	-53.84	≤-22.56	PASS



Test Graphs



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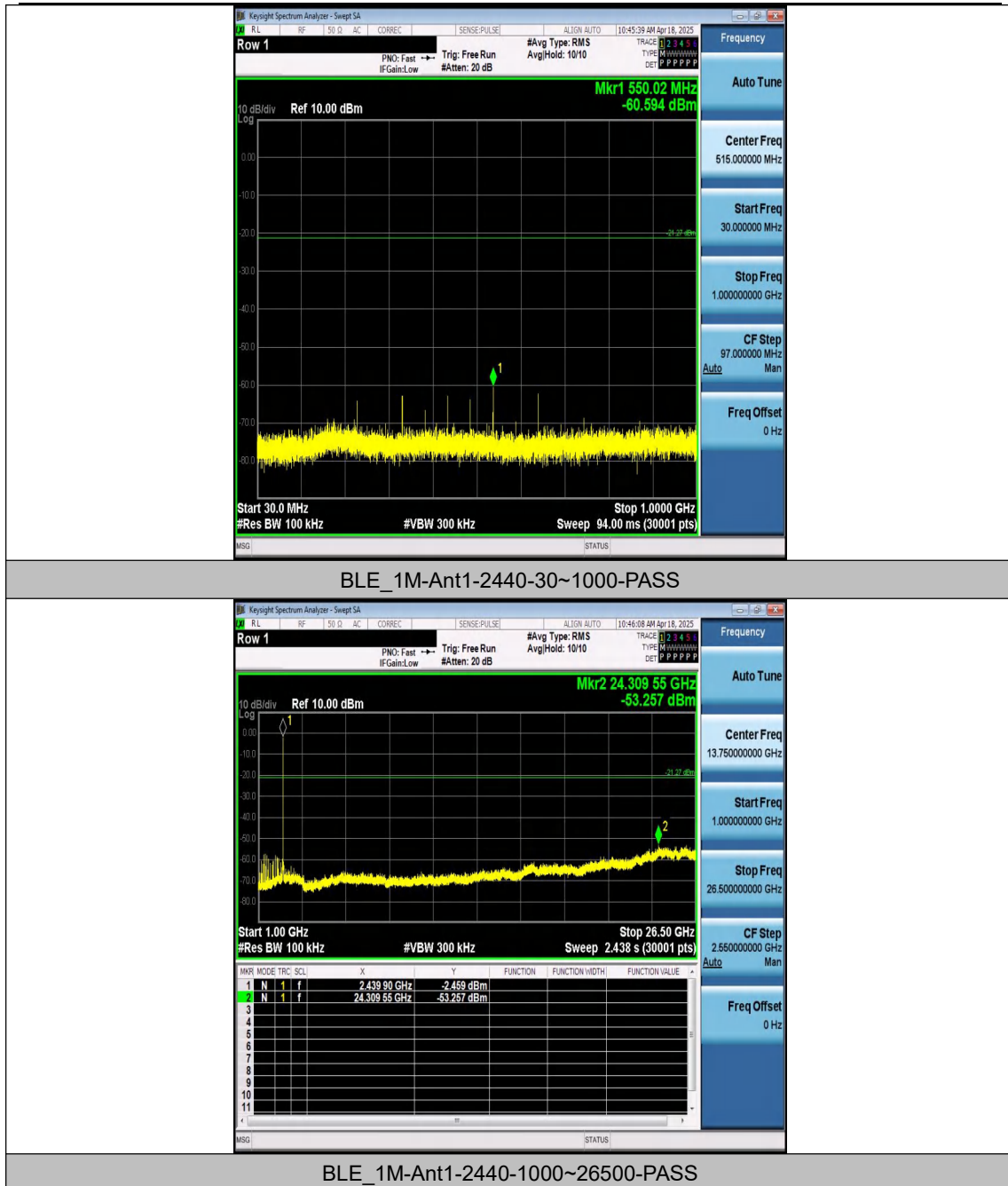
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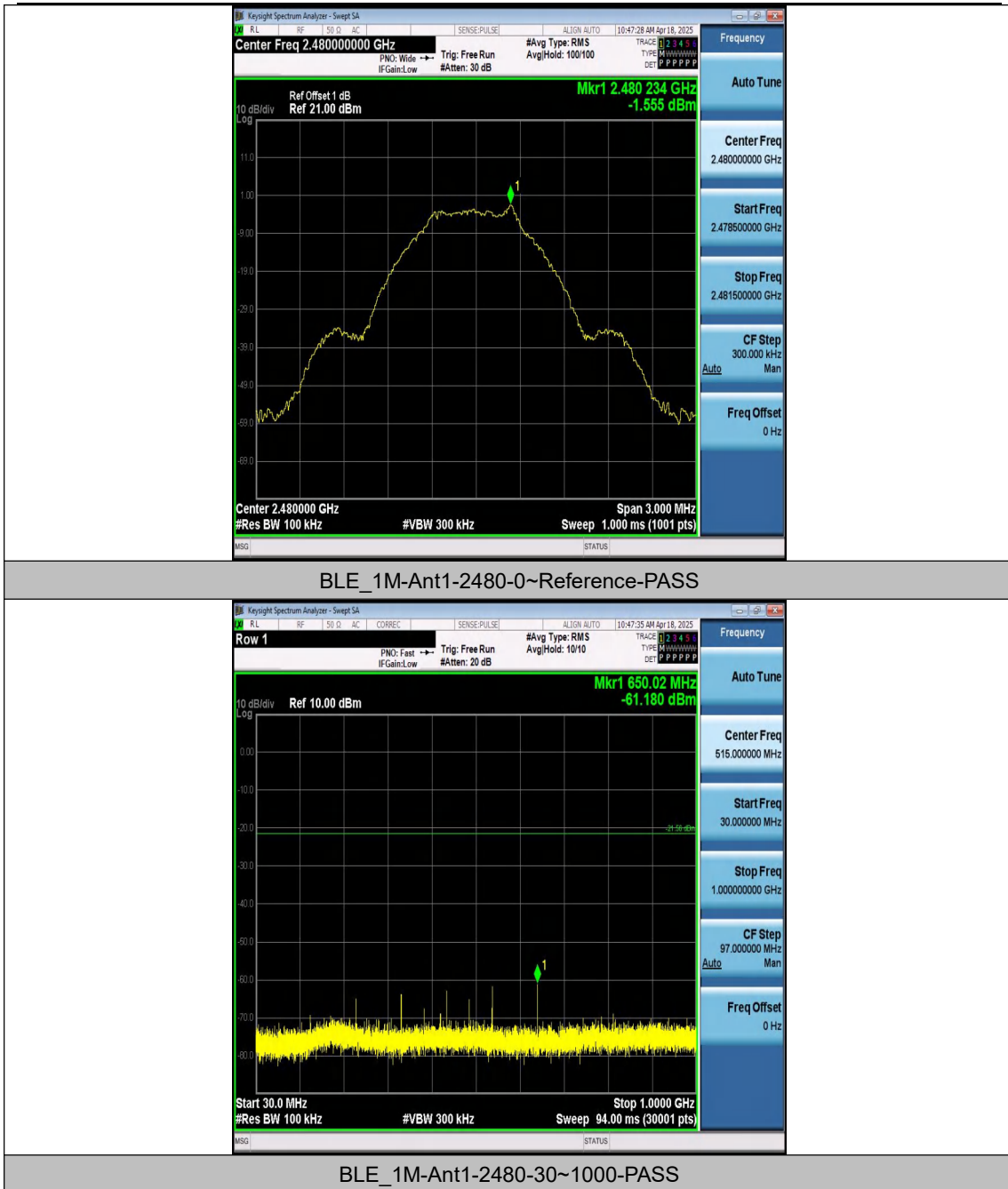


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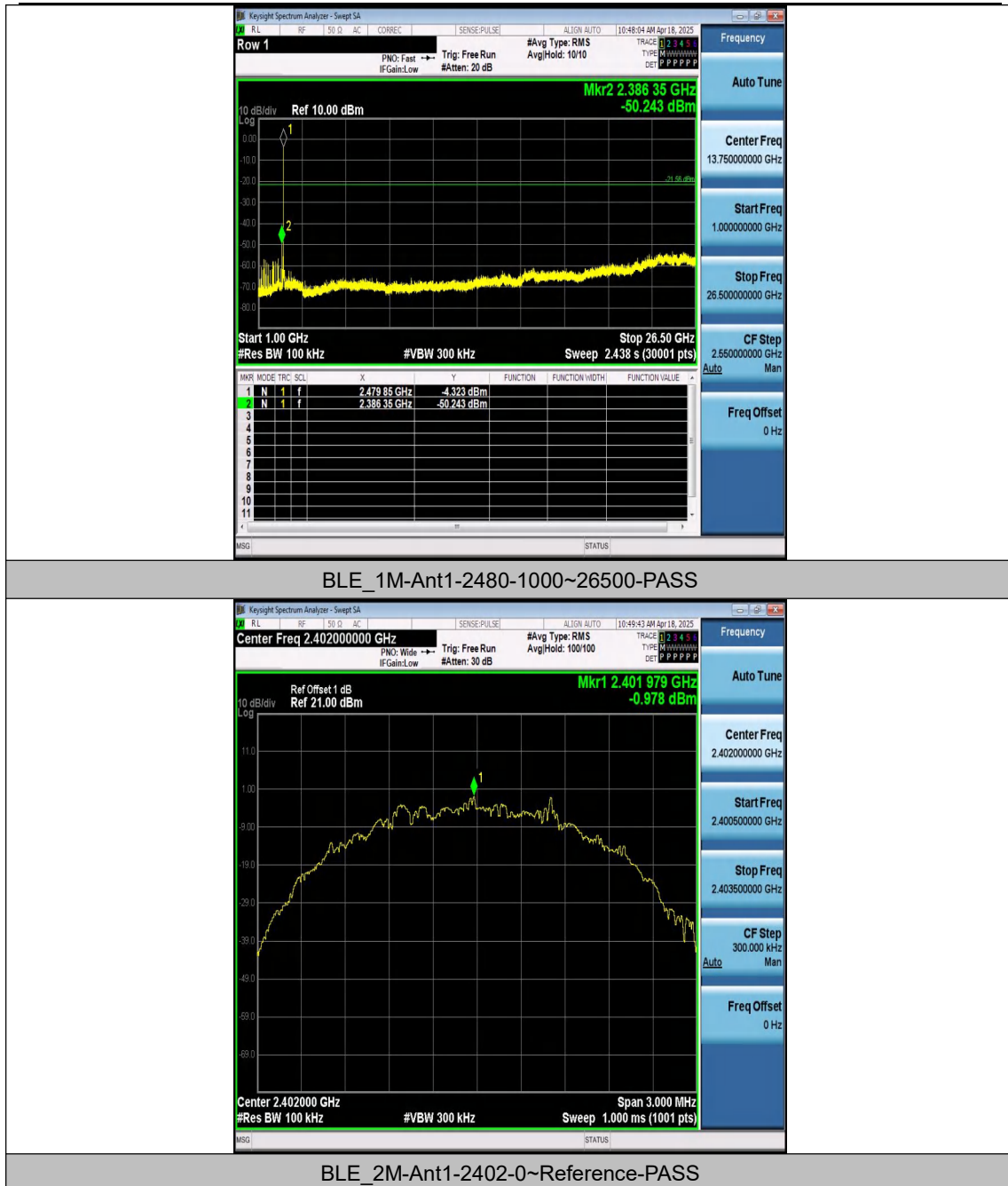


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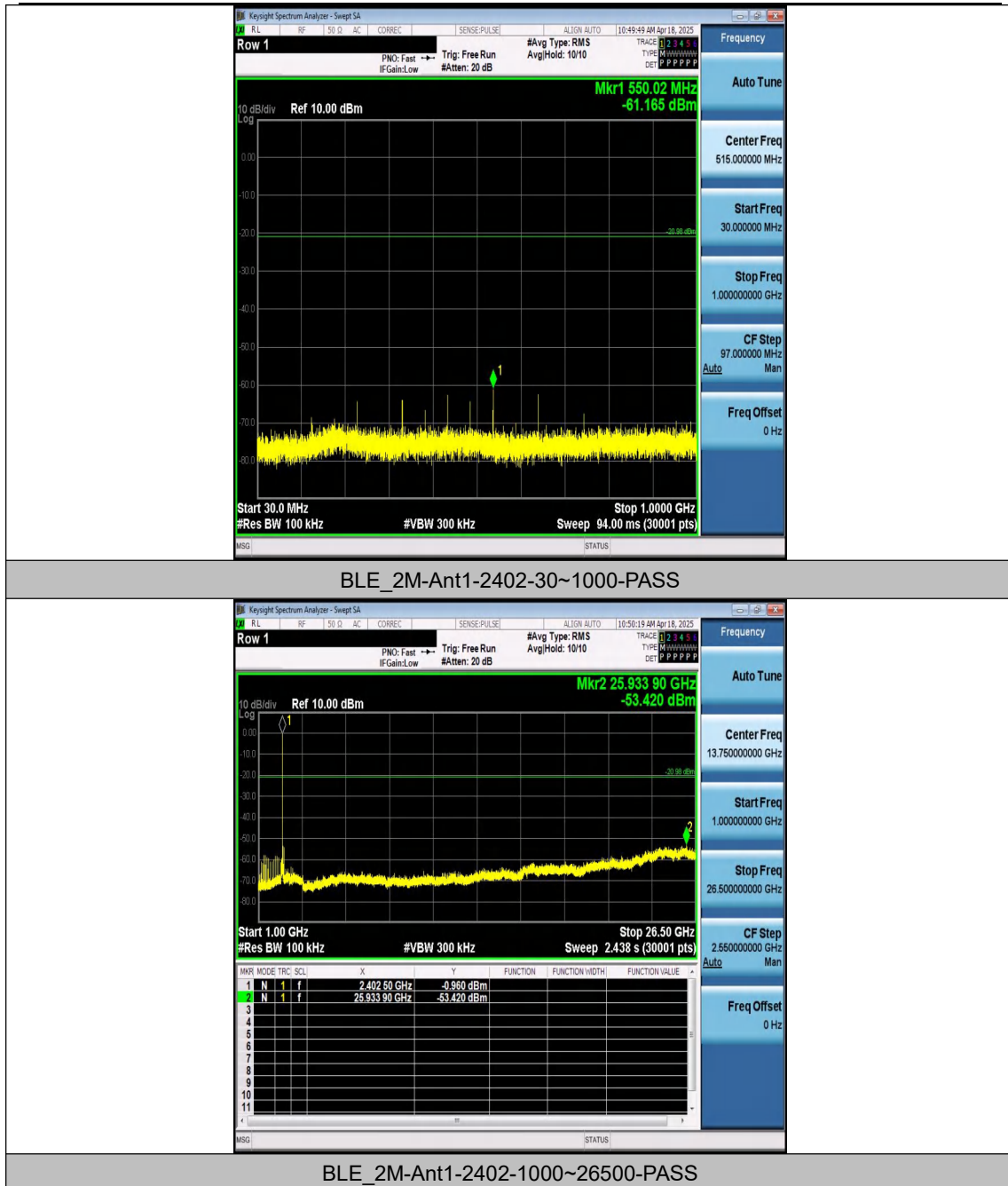
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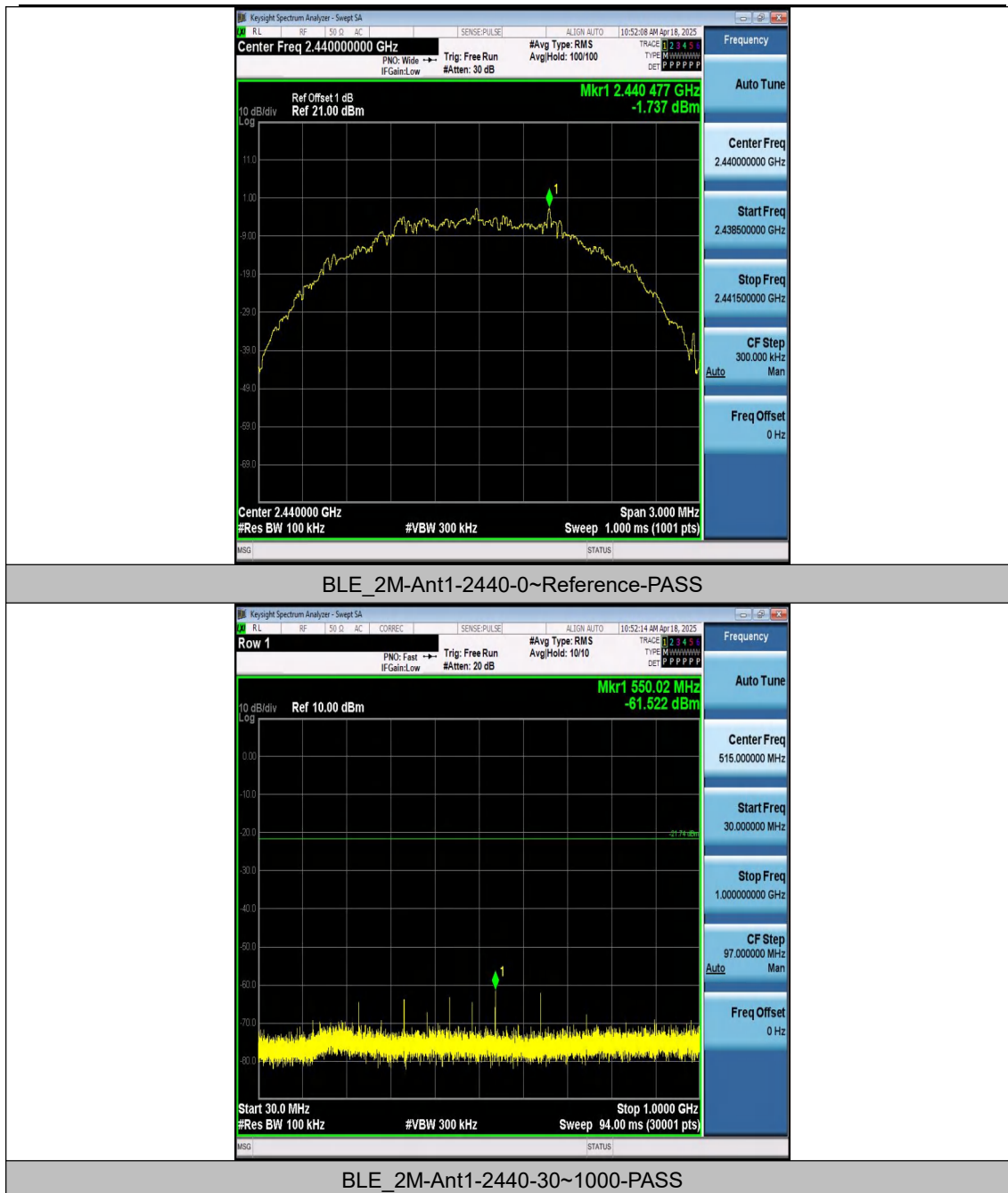


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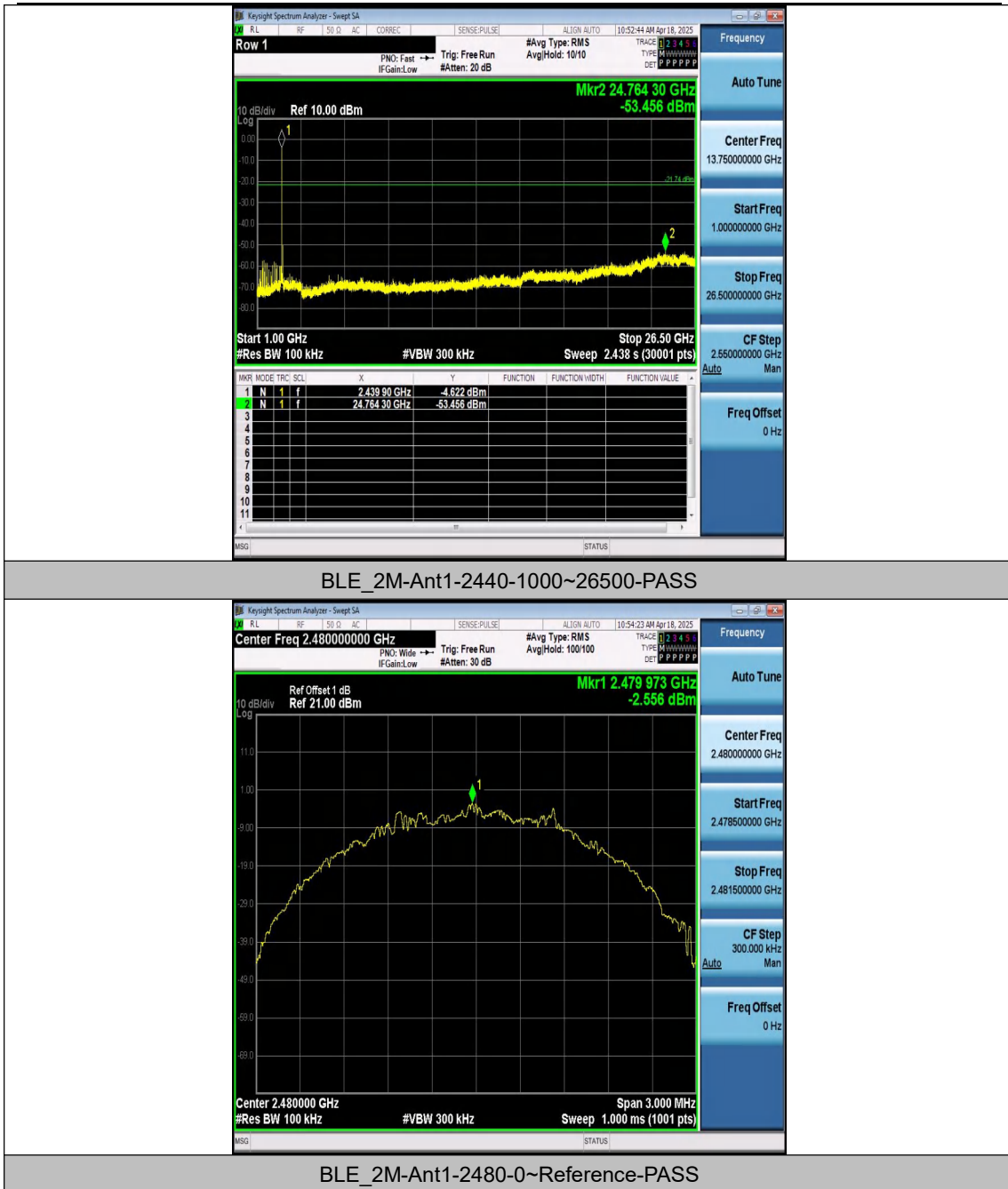


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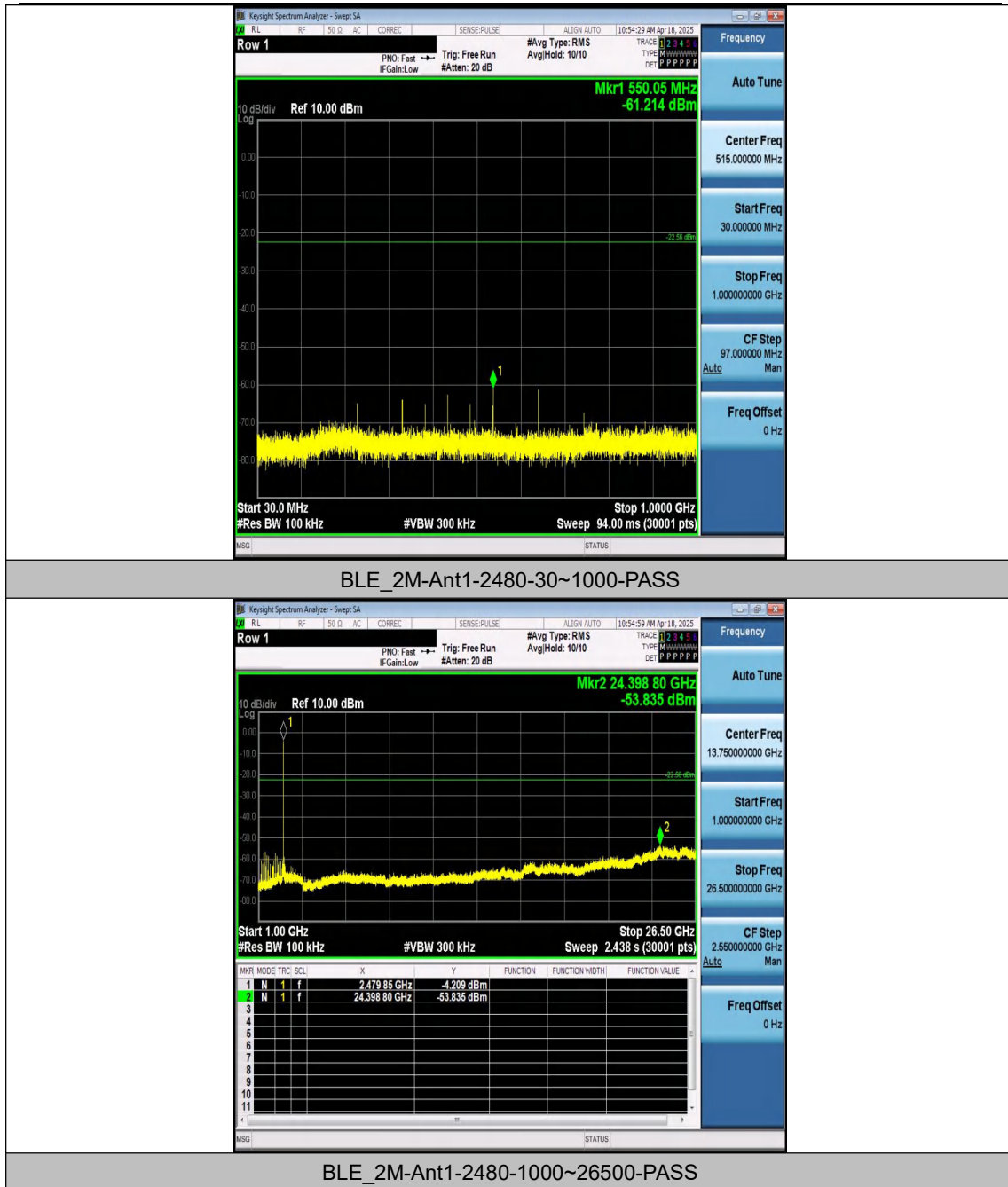
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Appendix G: Duty Cycle

Test Result

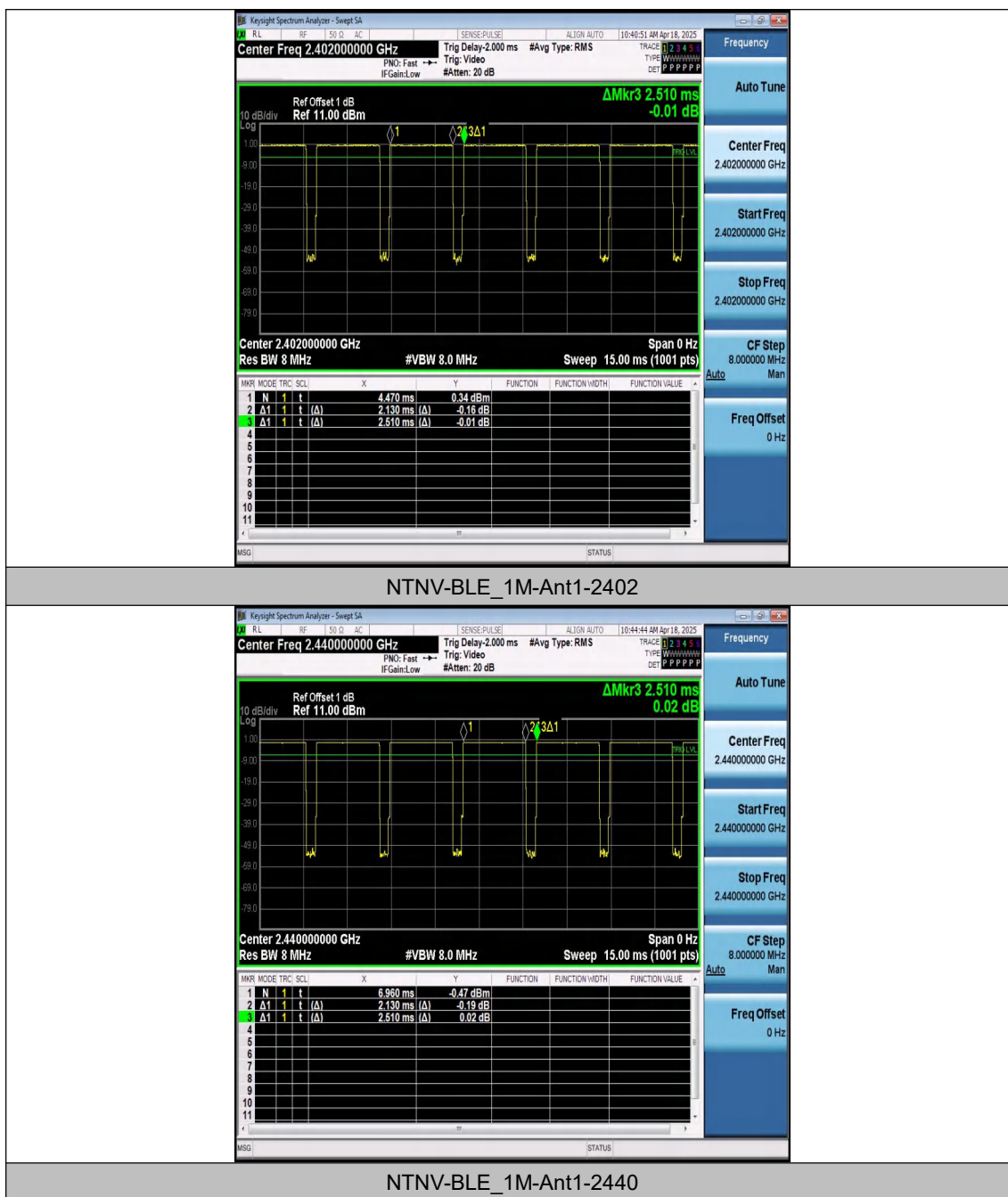
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45

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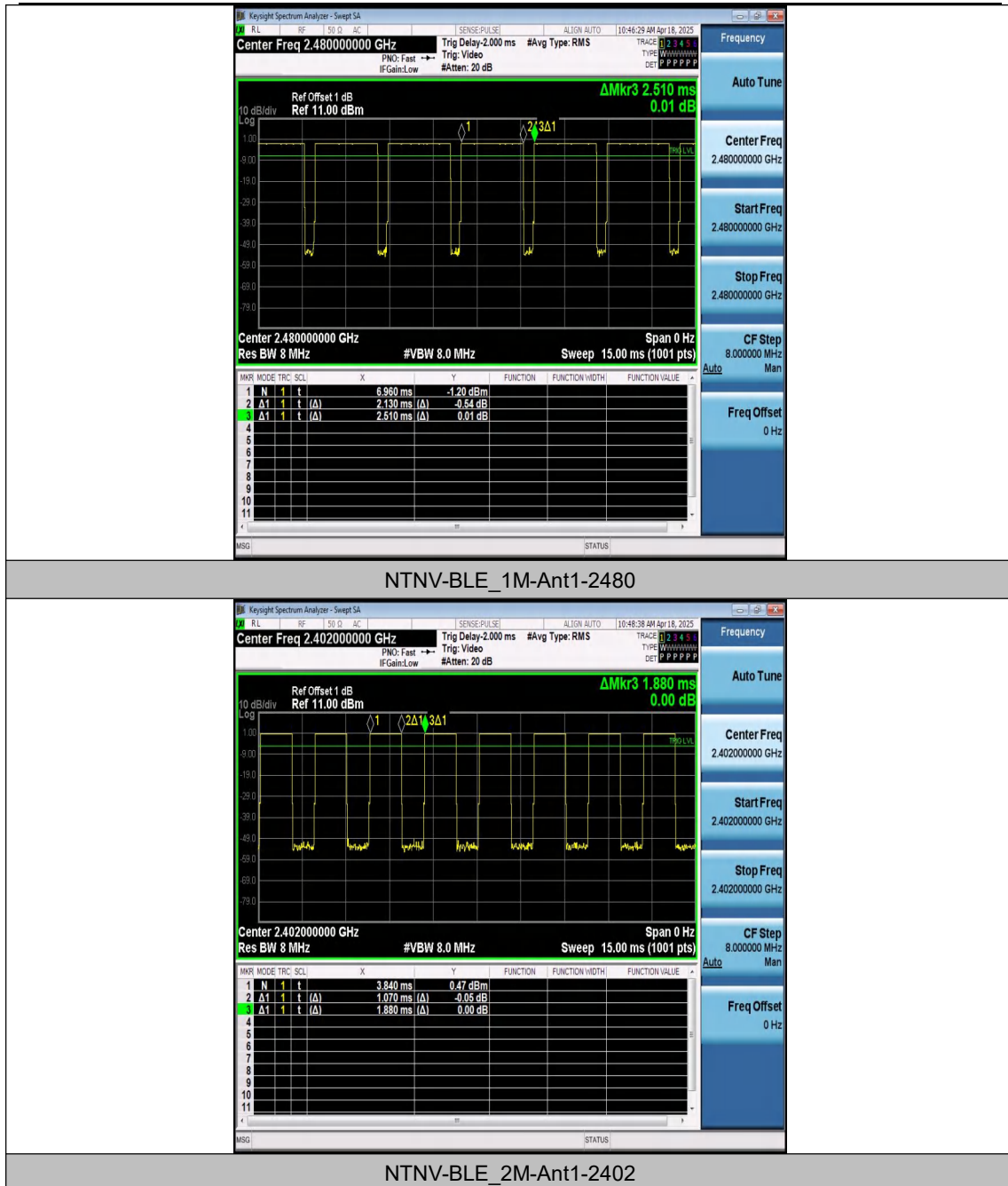
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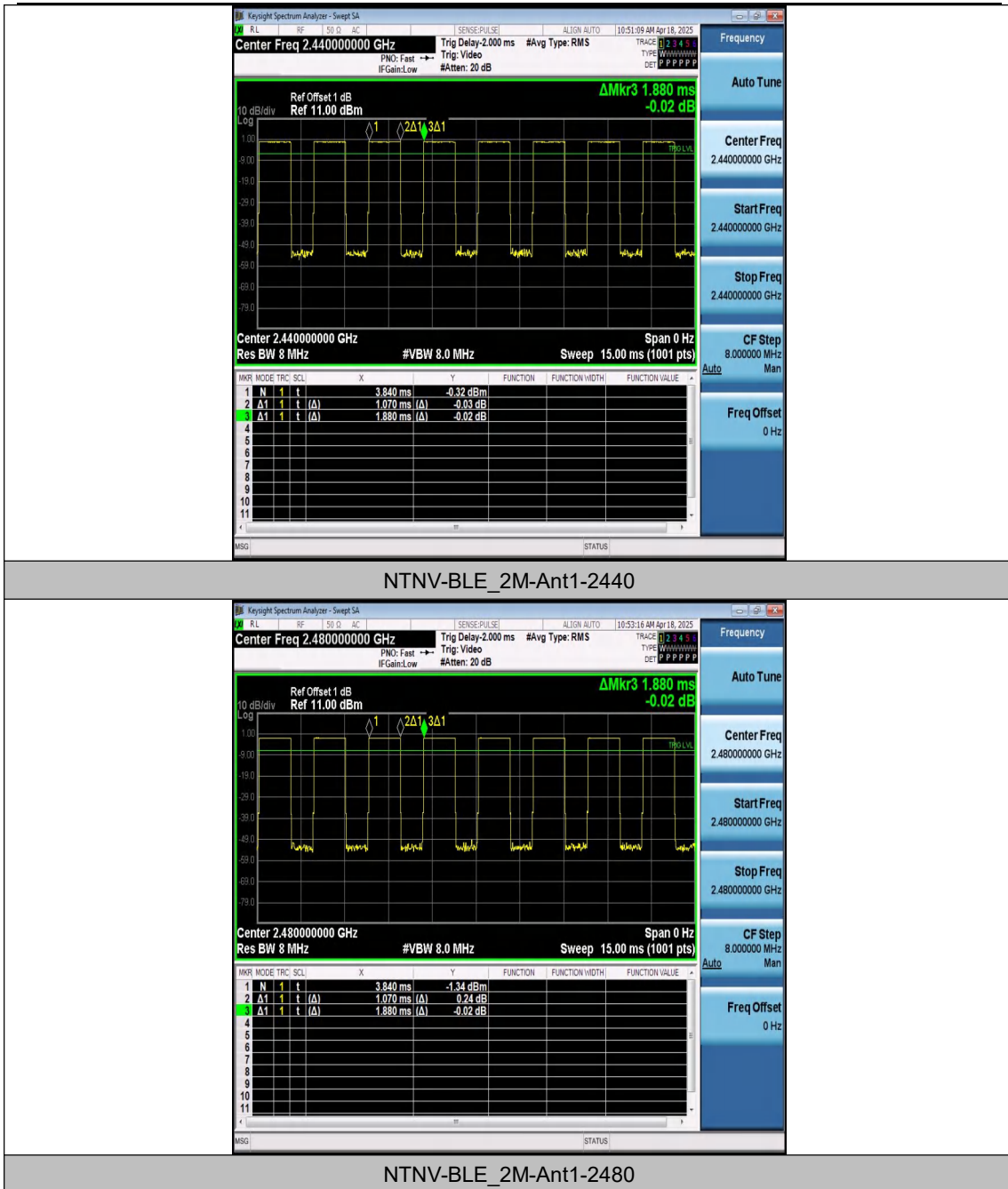


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