

Appendix Test Data

Report No.:	1812C50581012501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-4	Finish Test Date:	2025-11-6
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.7°C	Relative Humidity:	51%
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	0.656	2401.672	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.672	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.648	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.376	2401.308	2402.684	0.5	PASS
BLE_2M	Ant1	2440	1.224	2439.348	2440.572	0.5	PASS
BLE_2M	Ant1	2480	1.108	2479.440	2480.548	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	1.0269	2401.4877	2402.5146	---	---
BLE_1M	Ant1	2440	1.0259	2439.4845	2440.5104	---	---
BLE_1M	Ant1	2480	1.0118	2479.4892	2480.5010	---	---
BLE_2M	Ant1	2402	2.0557	2400.9851	2403.0408	---	---
BLE_2M	Ant1	2440	2.0455	2438.9909	2441.0364	---	---
BLE_2M	Ant1	2480	2.0613	2478.9799	2481.0412	---	---

Test Graphs





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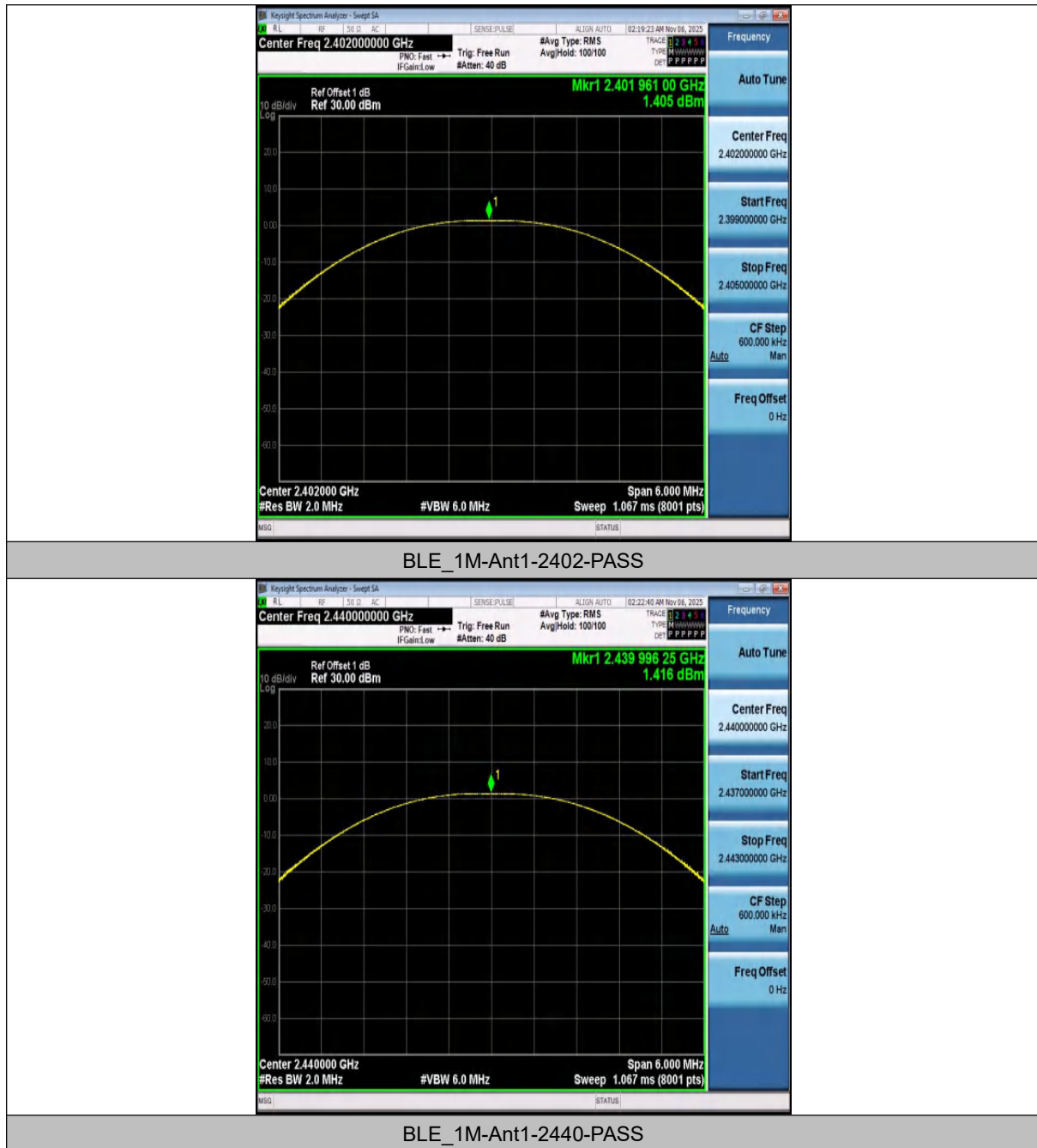
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.41	≤30	PASS
BLE_1M	Ant1	2440	1.42	≤30	PASS
BLE_1M	Ant1	2480	1.70	≤30	PASS
BLE_2M	Ant1	2402	1.27	≤30	PASS
BLE_2M	Ant1	2440	1.57	≤30	PASS
BLE_2M	Ant1	2480	1.88	≤30	PASS

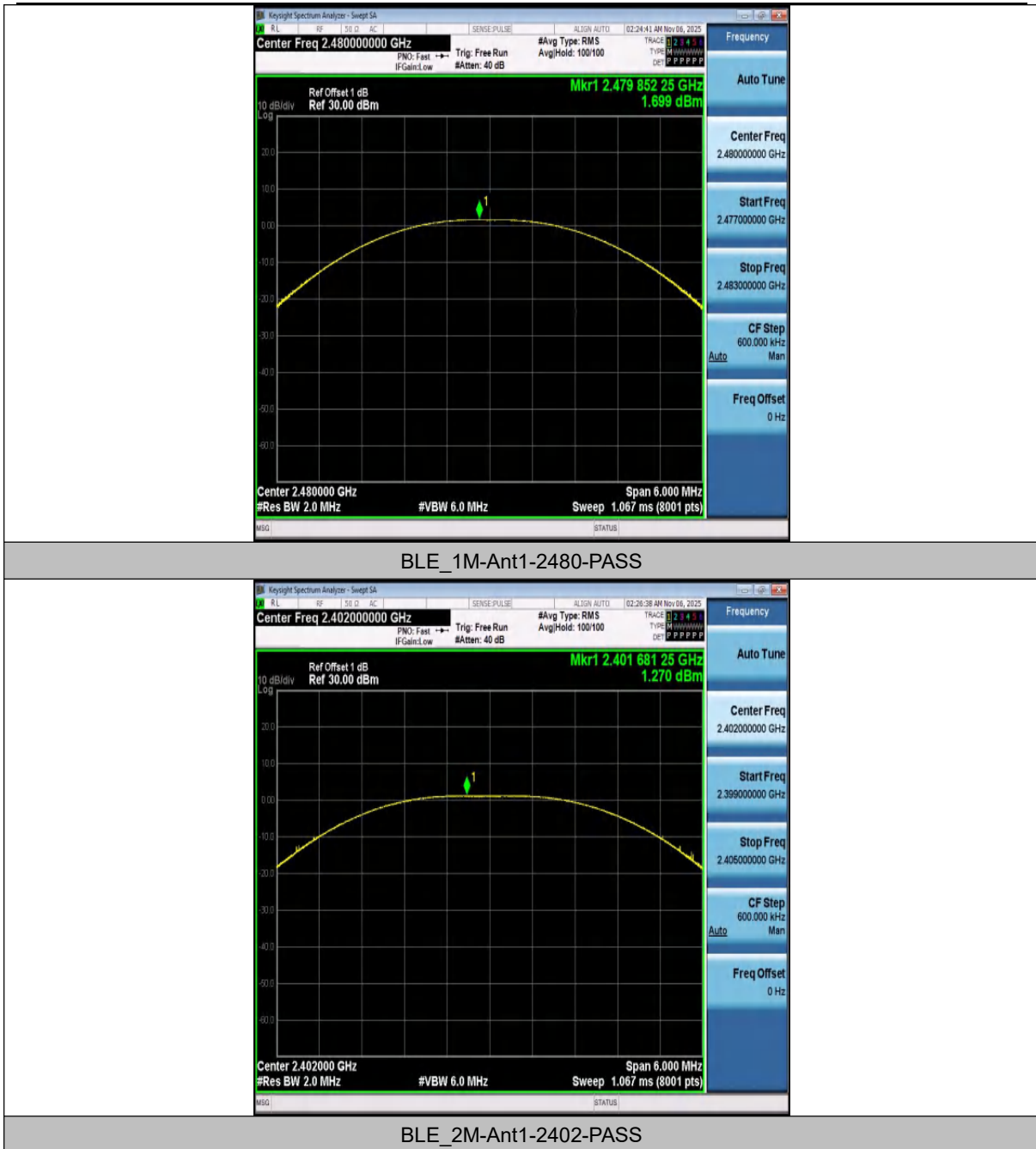
Test Graphs Peak



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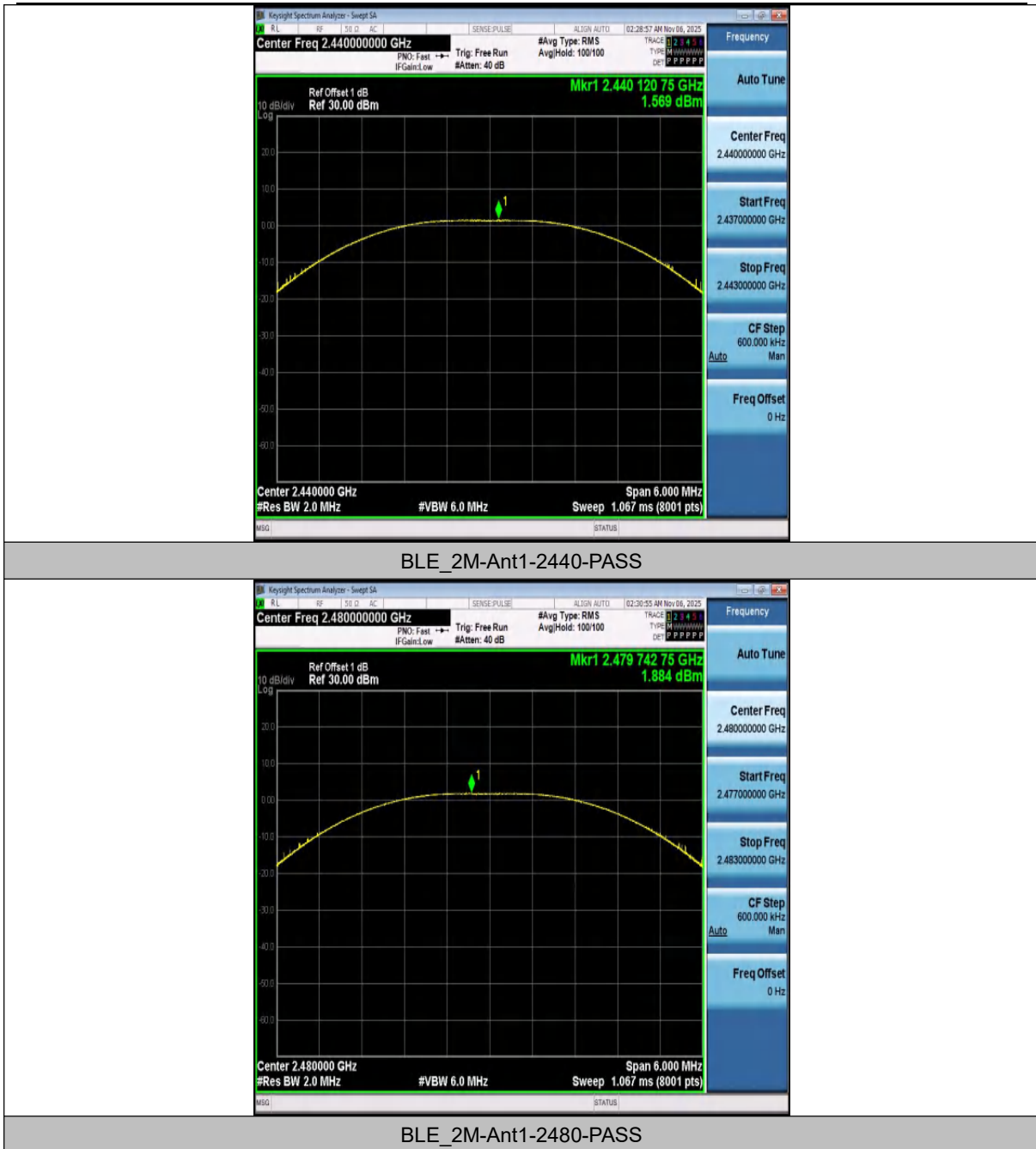
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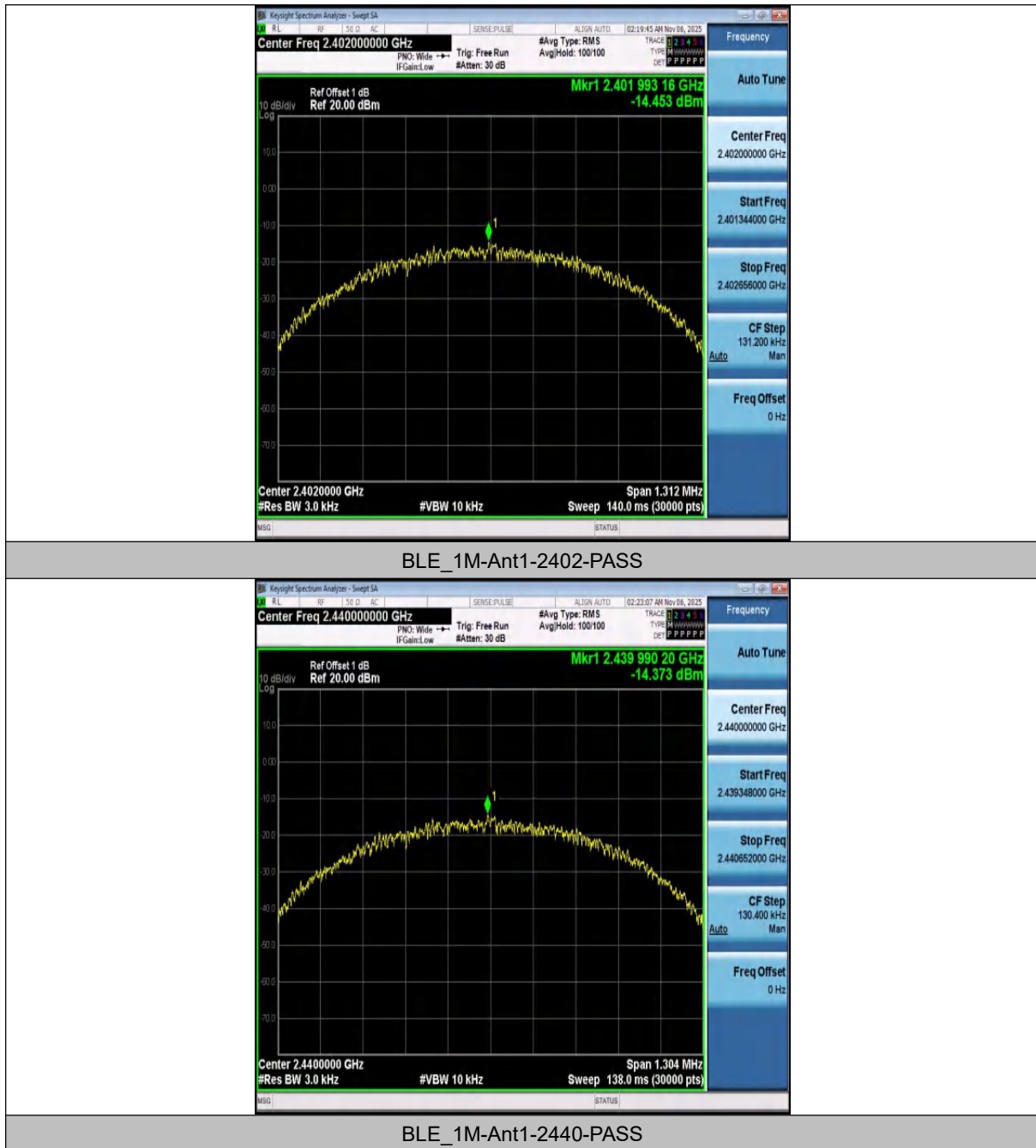
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.45	≤8.00	PASS
BLE_1M	Ant1	2440	-14.37	≤8.00	PASS
BLE_1M	Ant1	2480	-13.95	≤8.00	PASS
BLE_2M	Ant1	2402	-18.12	≤8.00	PASS
BLE_2M	Ant1	2440	-17.99	≤8.00	PASS
BLE_2M	Ant1	2480	-17.58	≤8.00	PASS

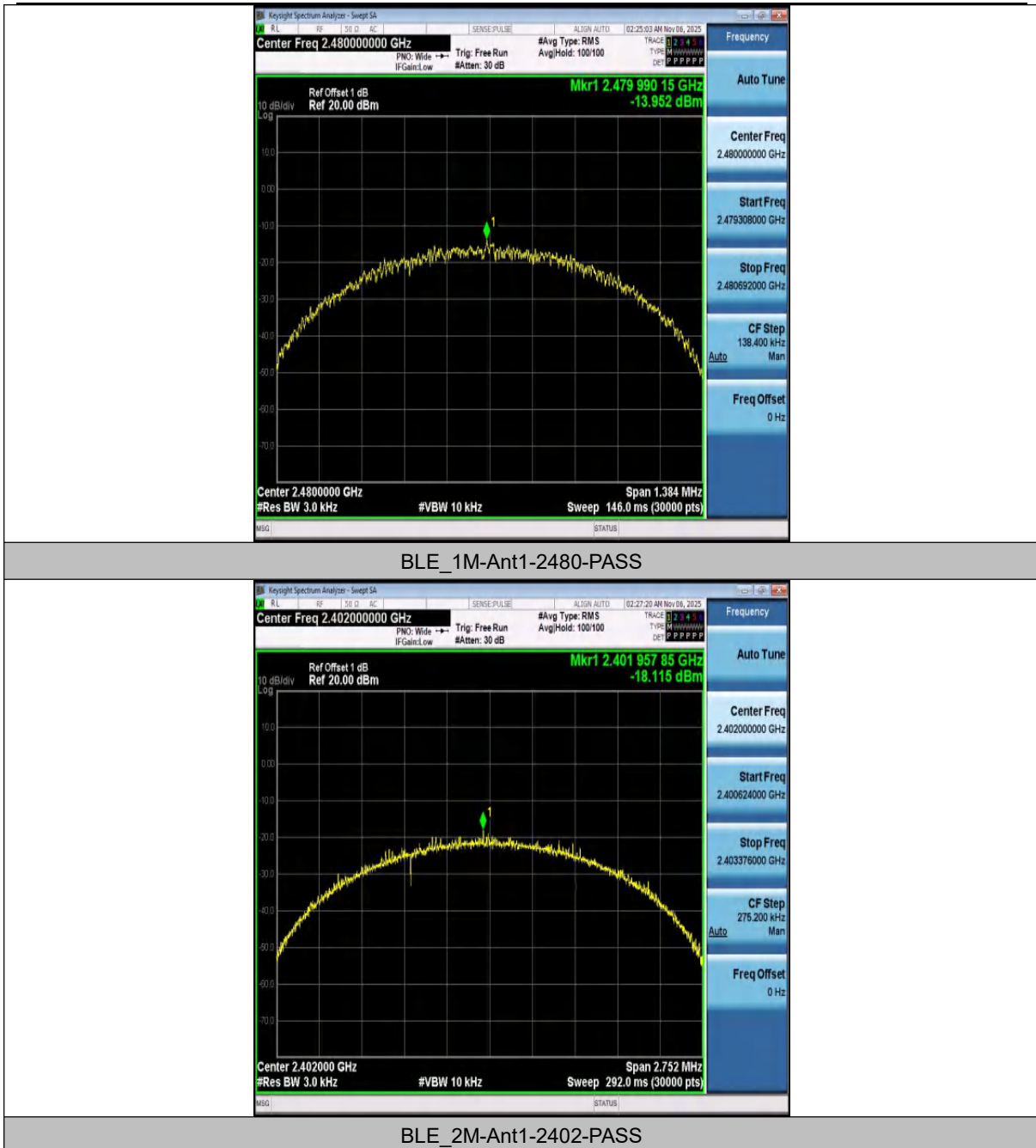
Test Graphs



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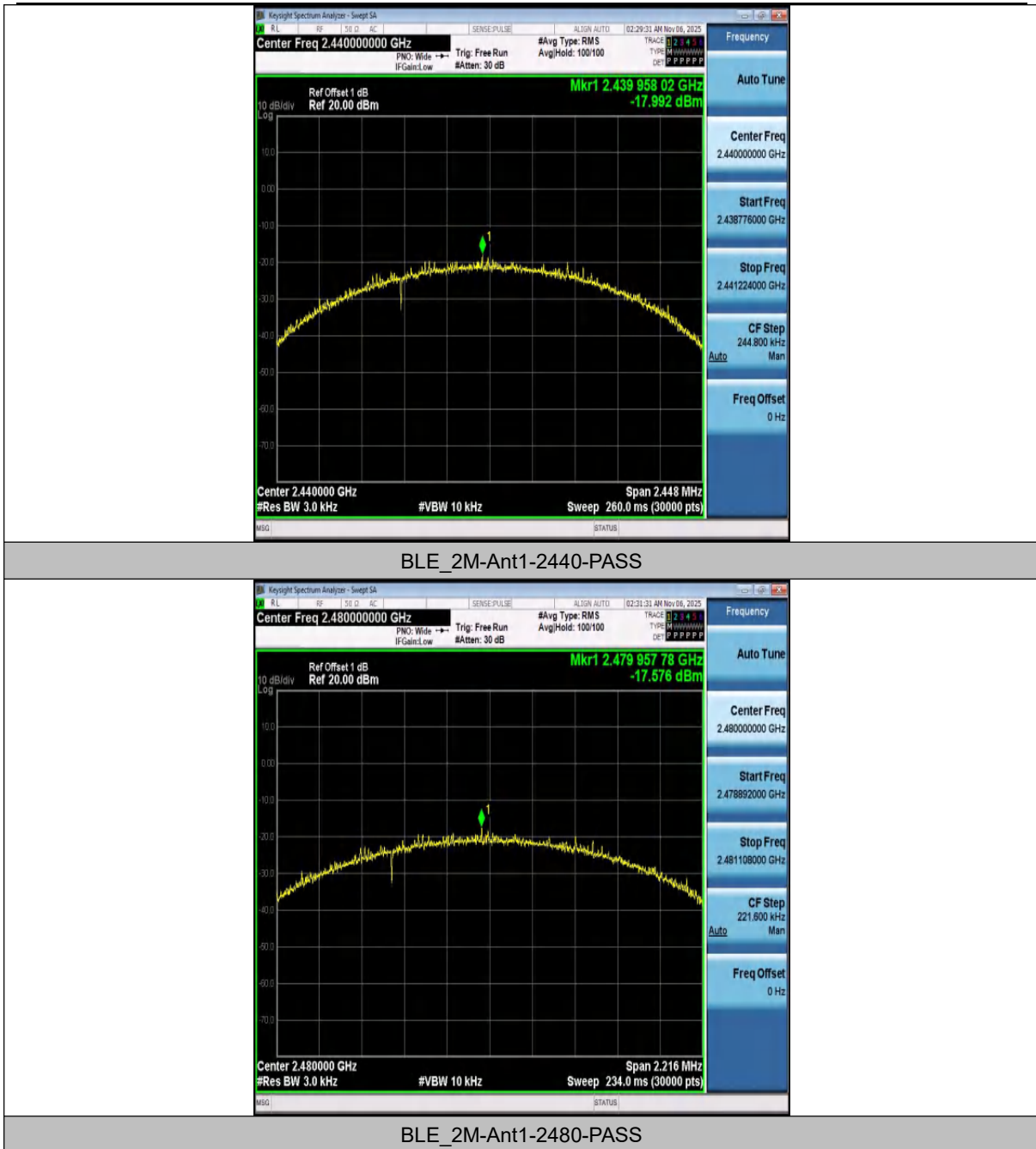
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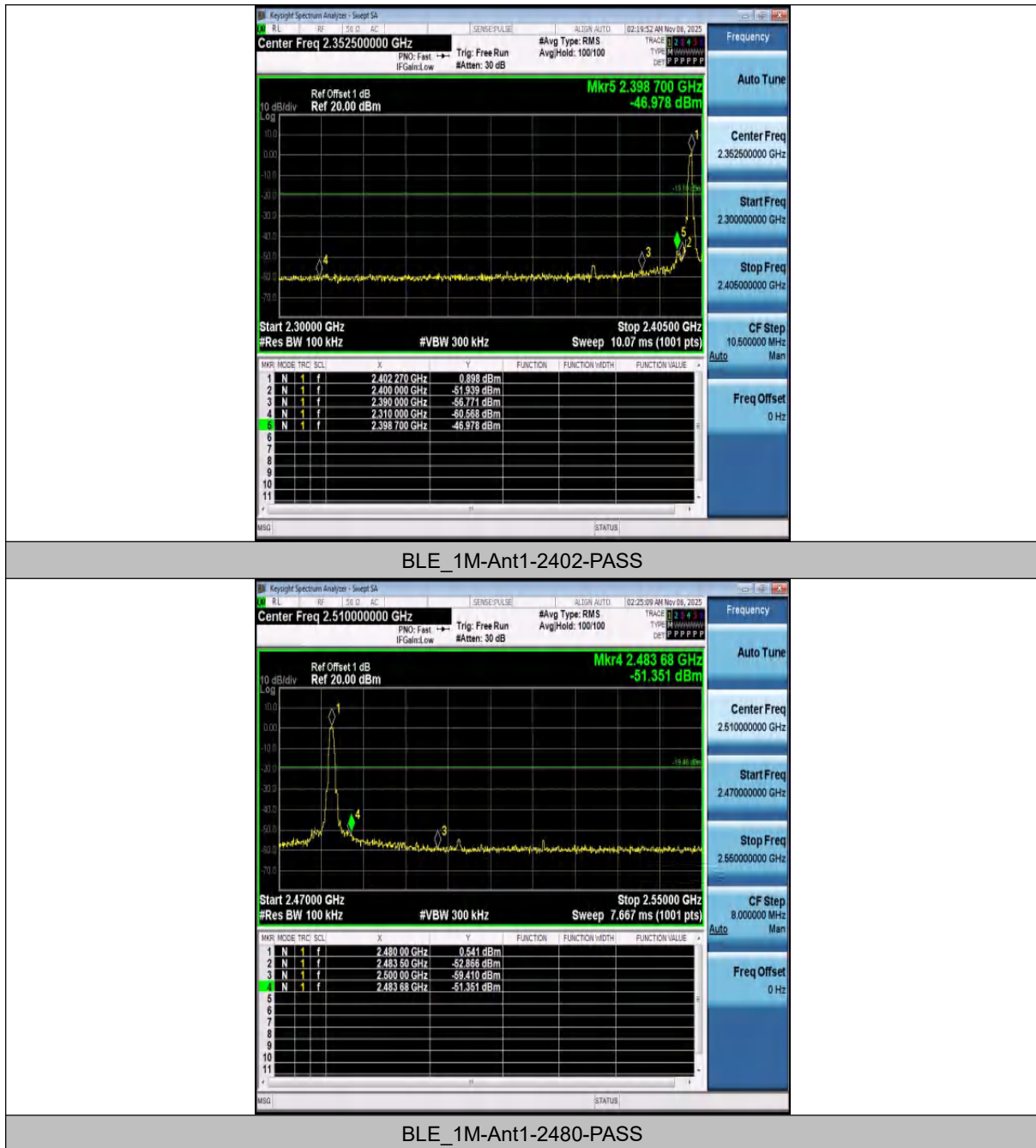
Appendix E: Band edge measurements

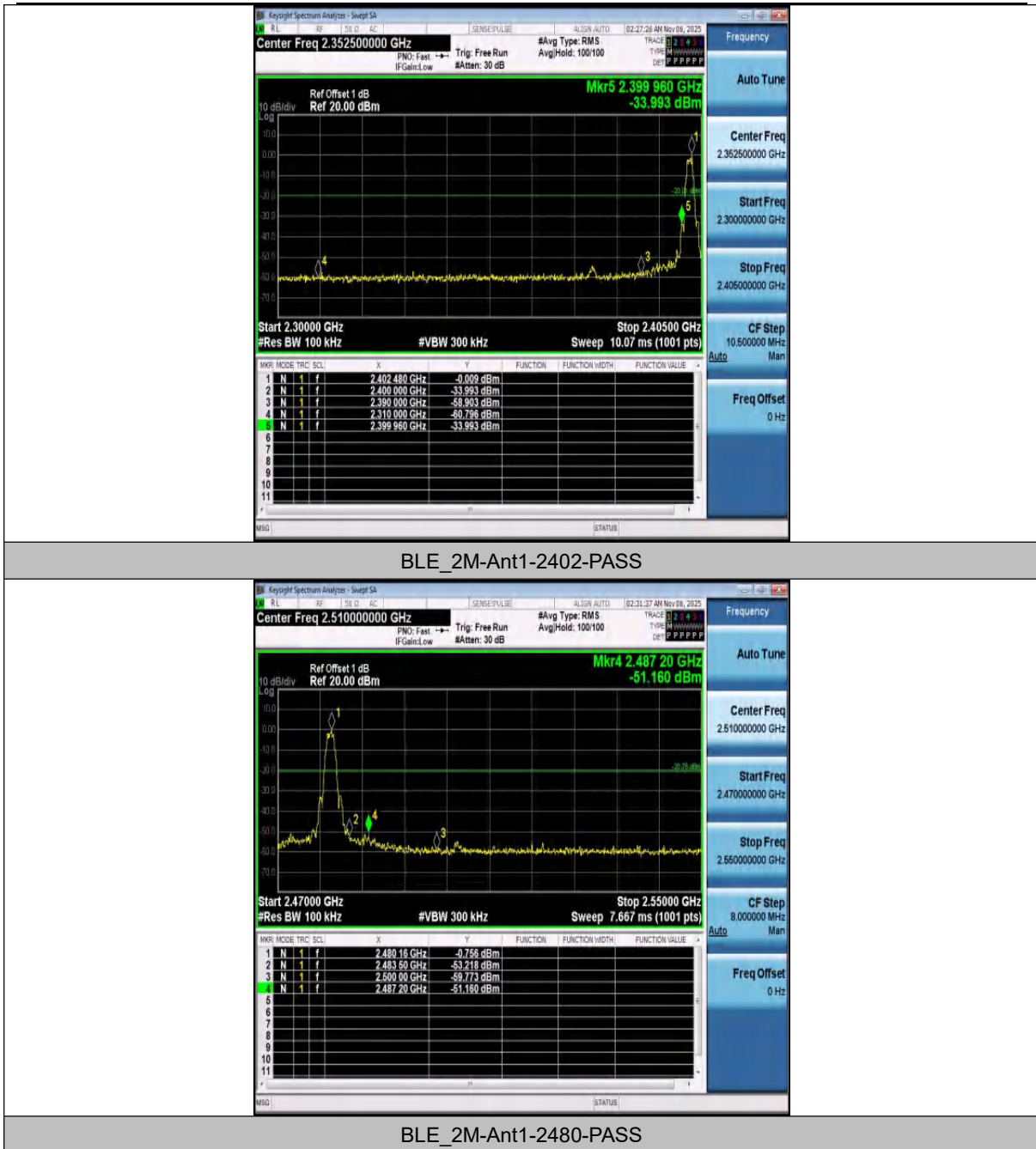
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.90	-46.98	≤ -19.1	PASS
BLE_1M	Ant1	High	2480	0.54	-51.35	≤ -19.46	PASS
BLE_2M	Ant1	Low	2402	-0.01	-33.99	≤ -20.01	PASS
BLE_2M	Ant1	High	2480	-0.76	-51.16	≤ -20.76	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





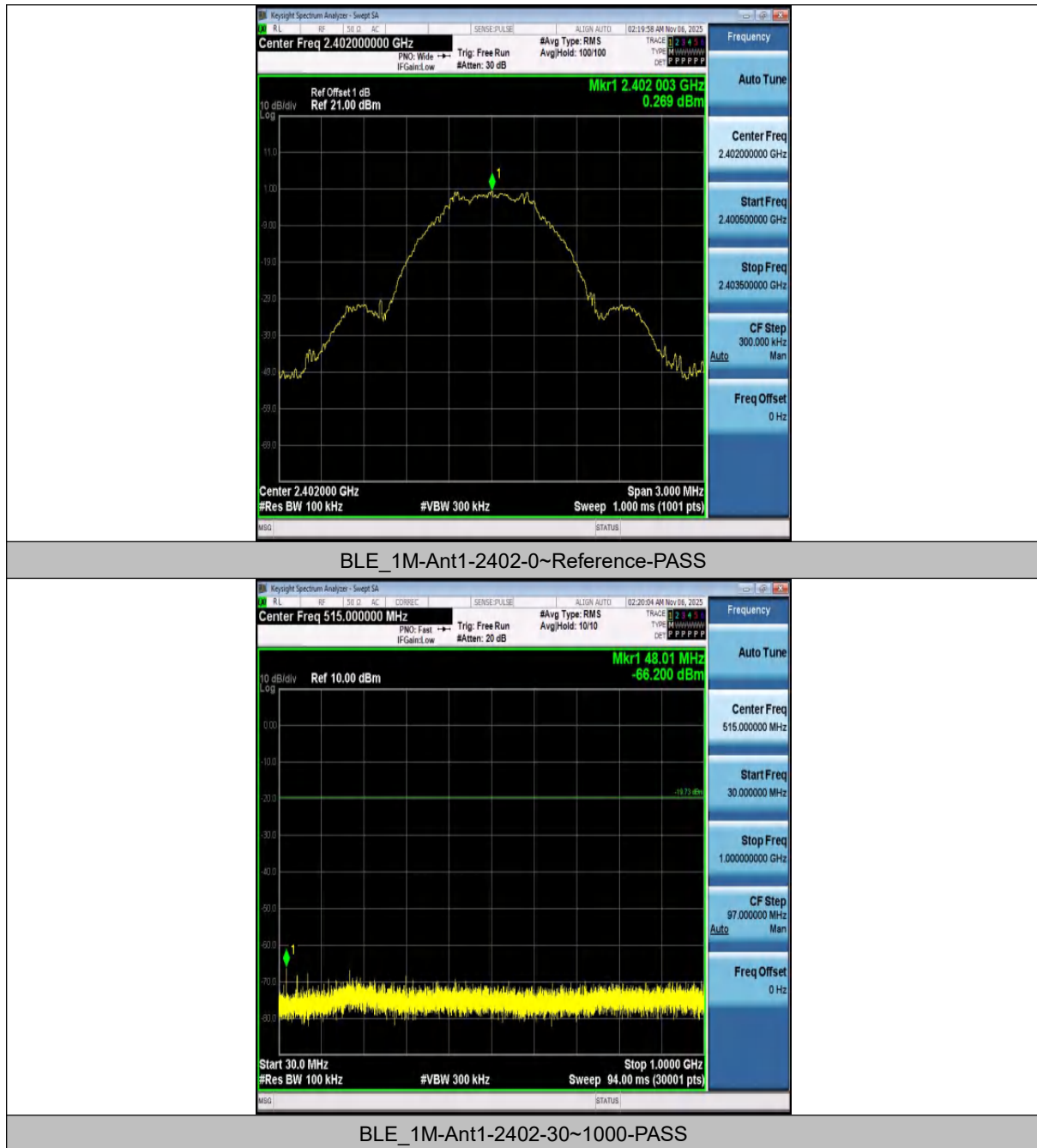
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.27	0.27	---	PASS
BLE_1M	Ant1	2402	30~1000	0.27	-66.2	≤-19.73	PASS
BLE_1M	Ant1	2402	1000~26500	0.27	-53.32	≤-19.73	PASS
BLE_1M	Ant1	2440	0~Reference	0.95	0.95	---	PASS
BLE_1M	Ant1	2440	30~1000	0.95	-65.36	≤-19.05	PASS
BLE_1M	Ant1	2440	1000~26500	0.95	-53.36	≤-19.05	PASS
BLE_1M	Ant1	2480	0~Reference	0.68	0.68	---	PASS
BLE_1M	Ant1	2480	30~1000	0.68	-66.01	≤-19.32	PASS
BLE_1M	Ant1	2480	1000~26500	0.68	-42.36	≤-19.32	PASS
BLE_2M	Ant1	2402	0~Reference	-0.87	-0.87	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.87	-66.17	≤-20.87	PASS
BLE_2M	Ant1	2402	1000~26500	-0.87	-52.11	≤-20.87	PASS
BLE_2M	Ant1	2440	0~Reference	-0.42	-0.42	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.42	-65.11	≤-20.42	PASS
BLE_2M	Ant1	2440	1000~26500	-0.42	-52.74	≤-20.42	PASS
BLE_2M	Ant1	2480	0~Reference	0.52	0.52	---	PASS
BLE_2M	Ant1	2480	30~1000	0.52	-65.61	≤-19.48	PASS
BLE_2M	Ant1	2480	1000~26500	0.52	-49.51	≤-19.48	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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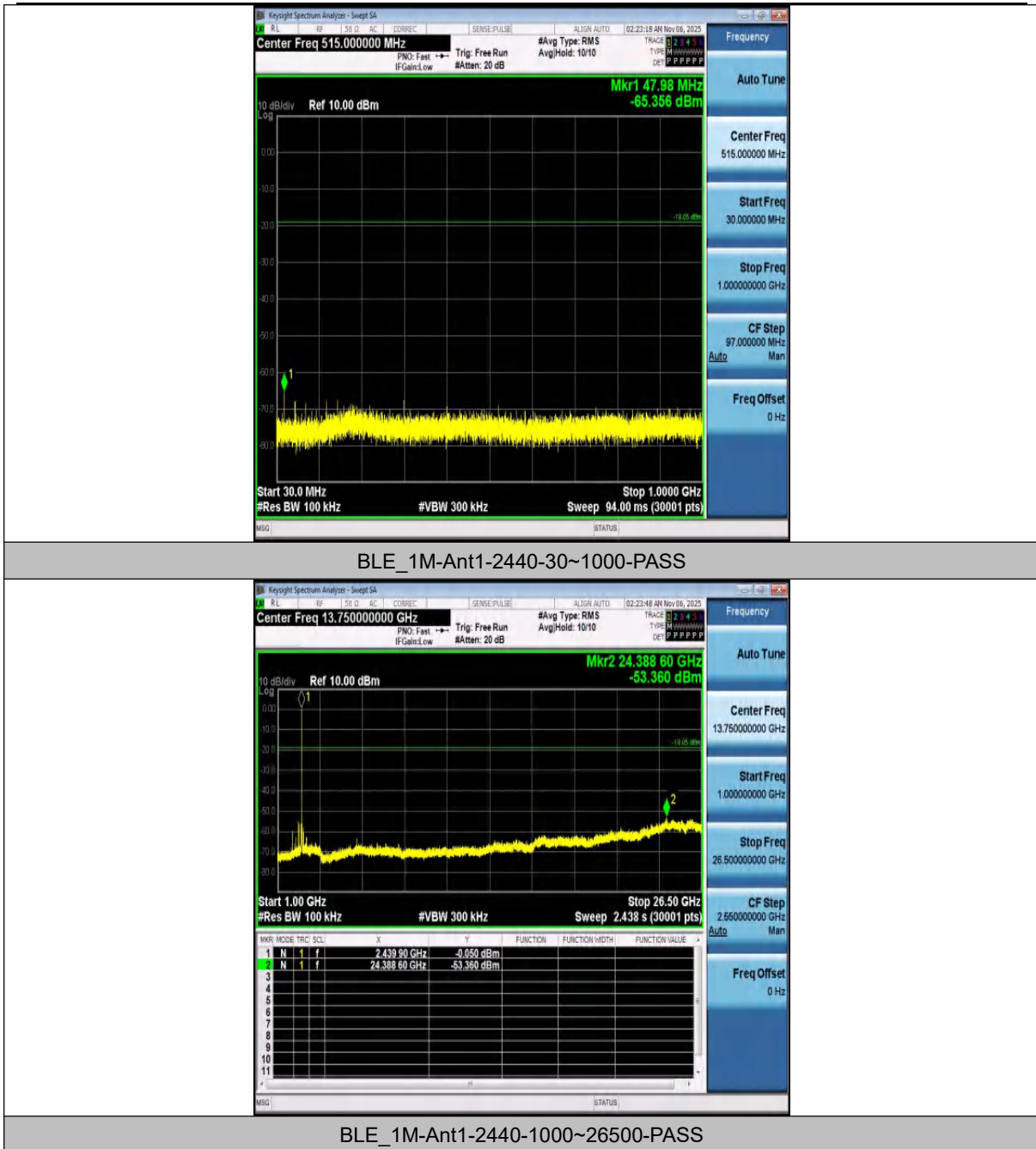
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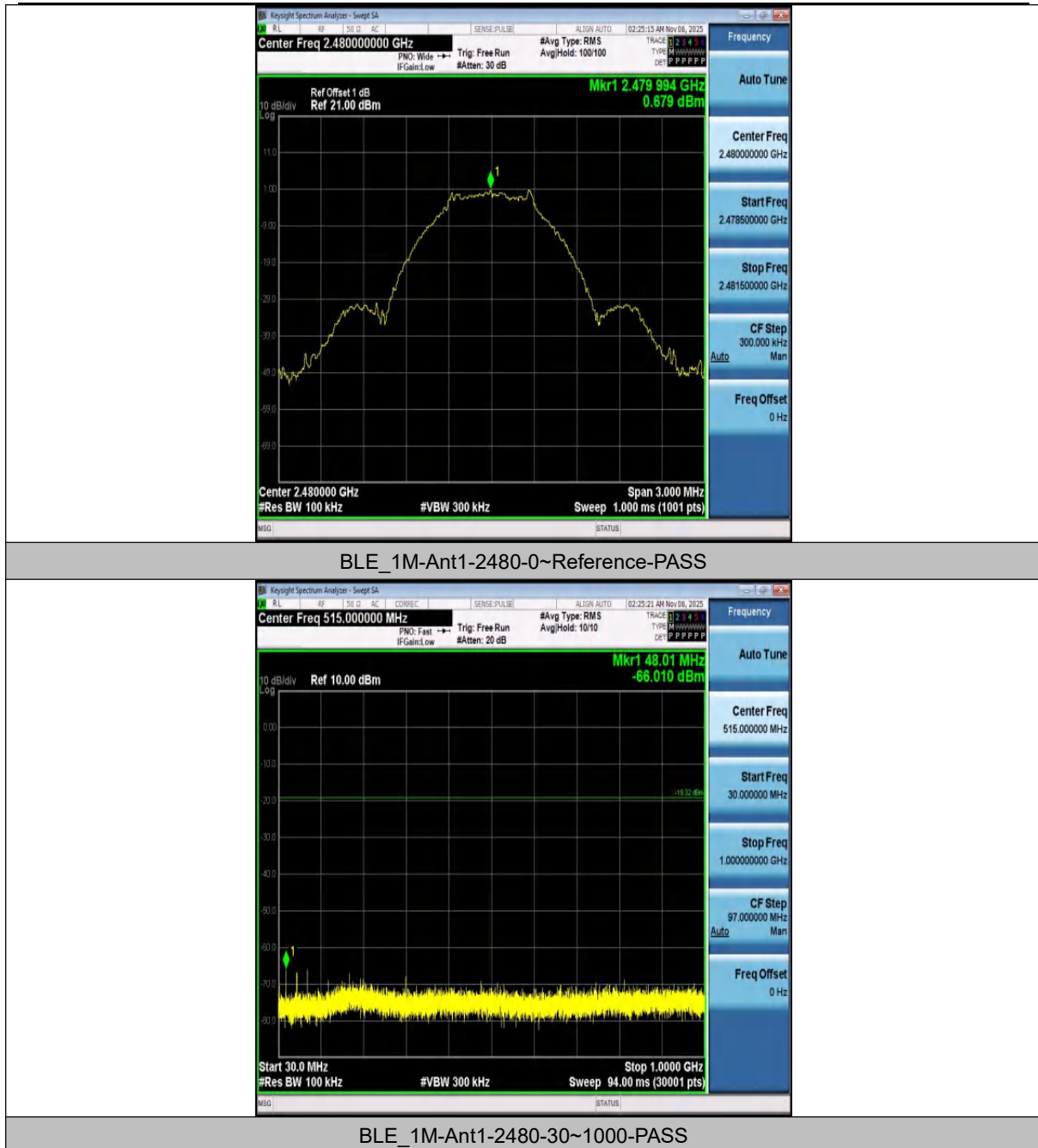
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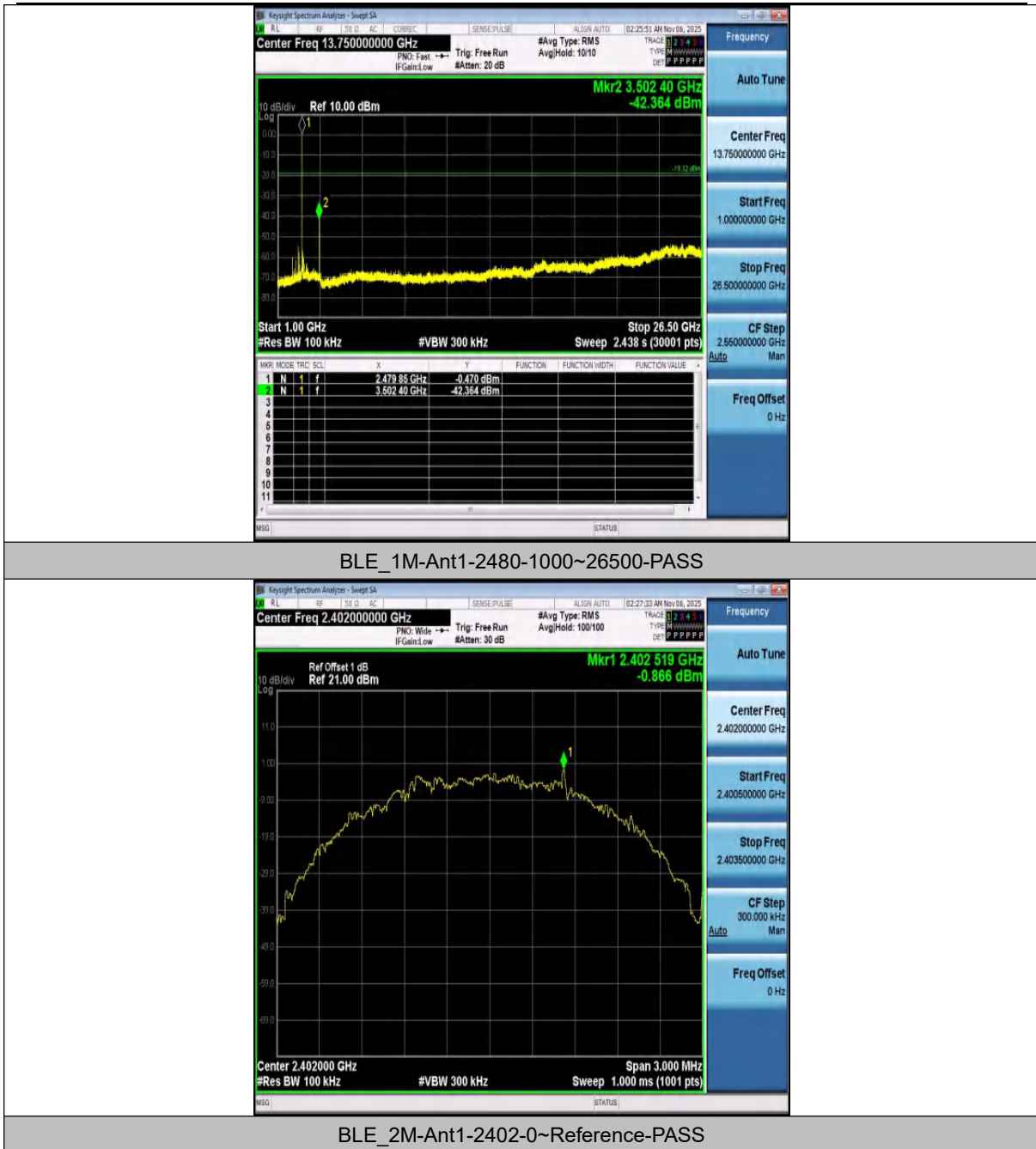
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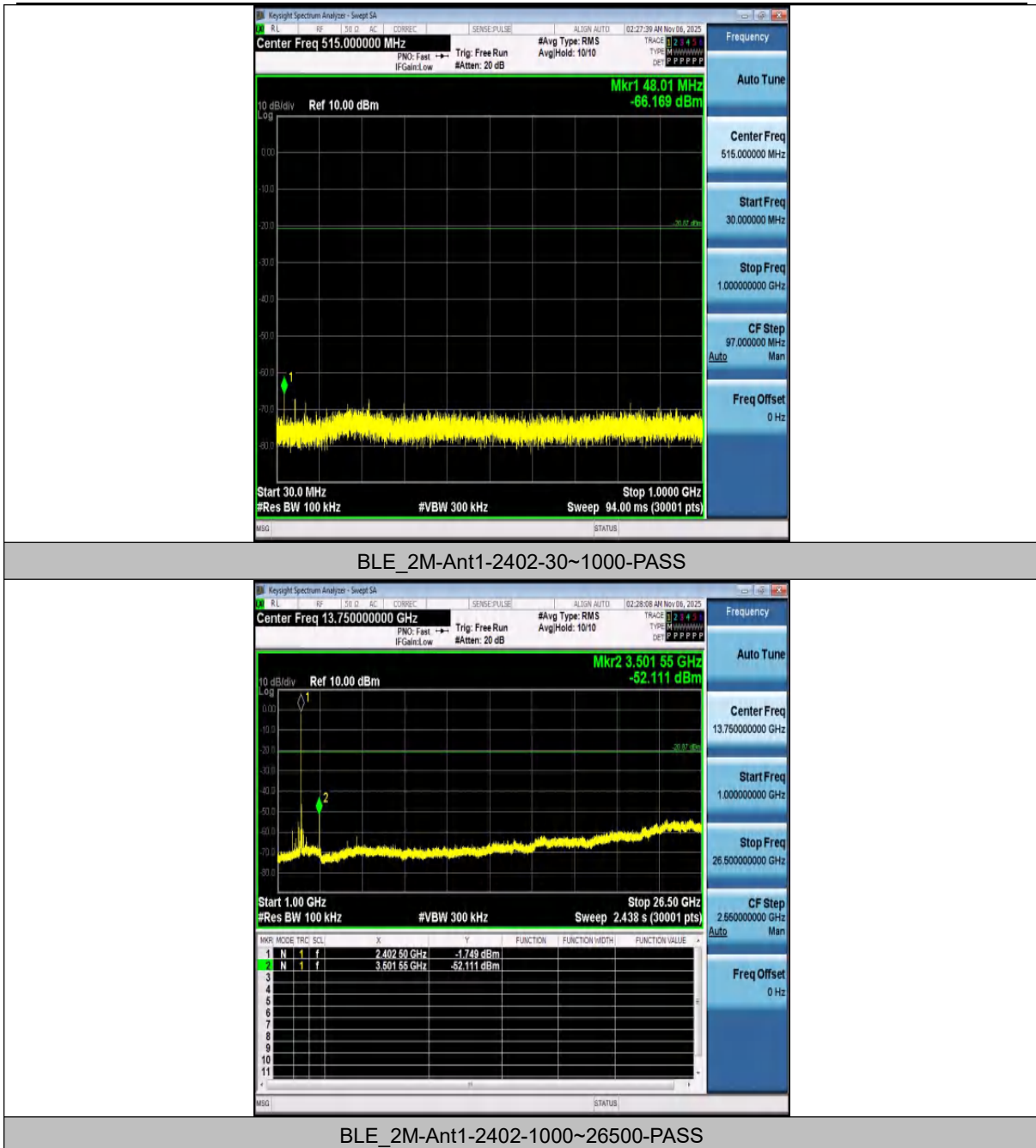
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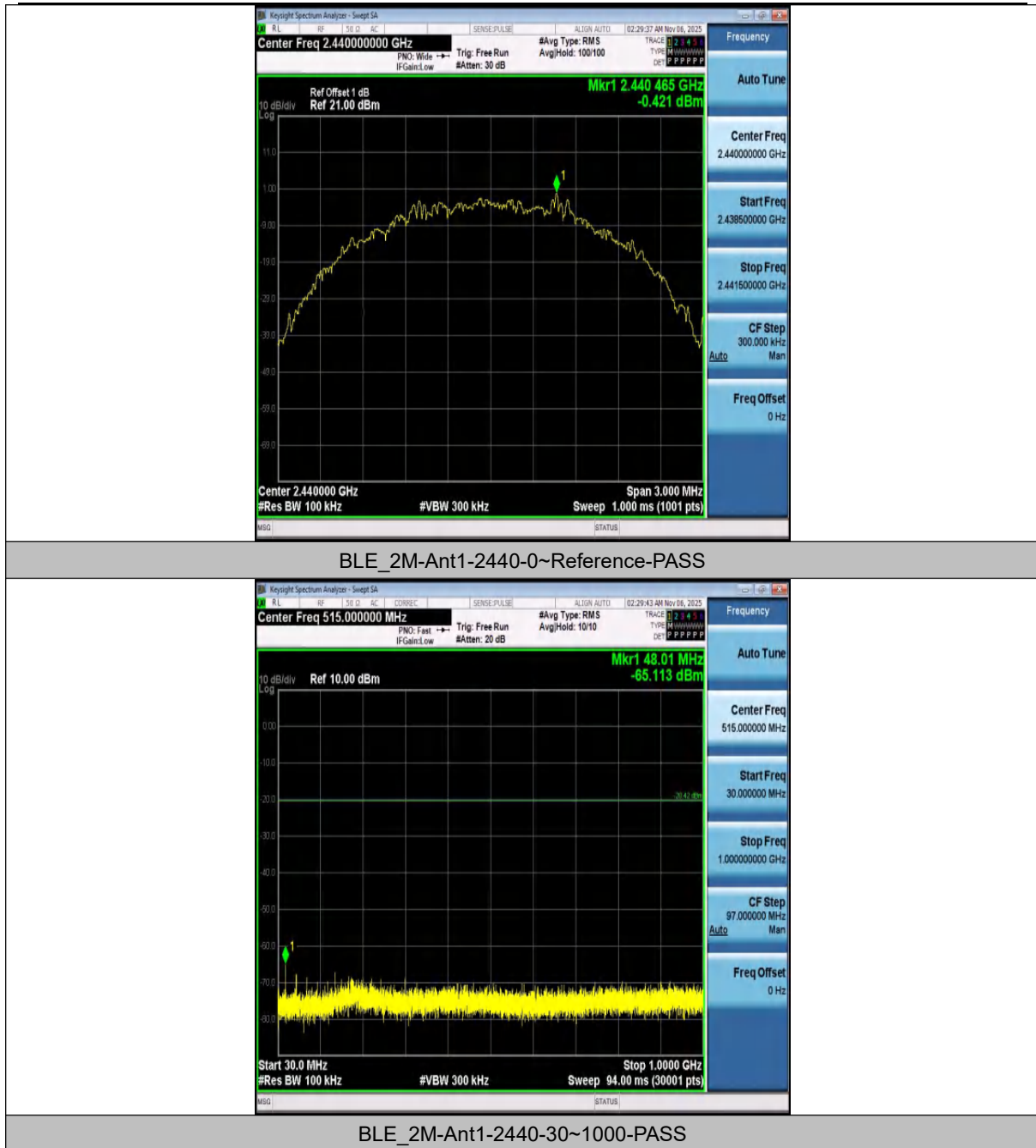
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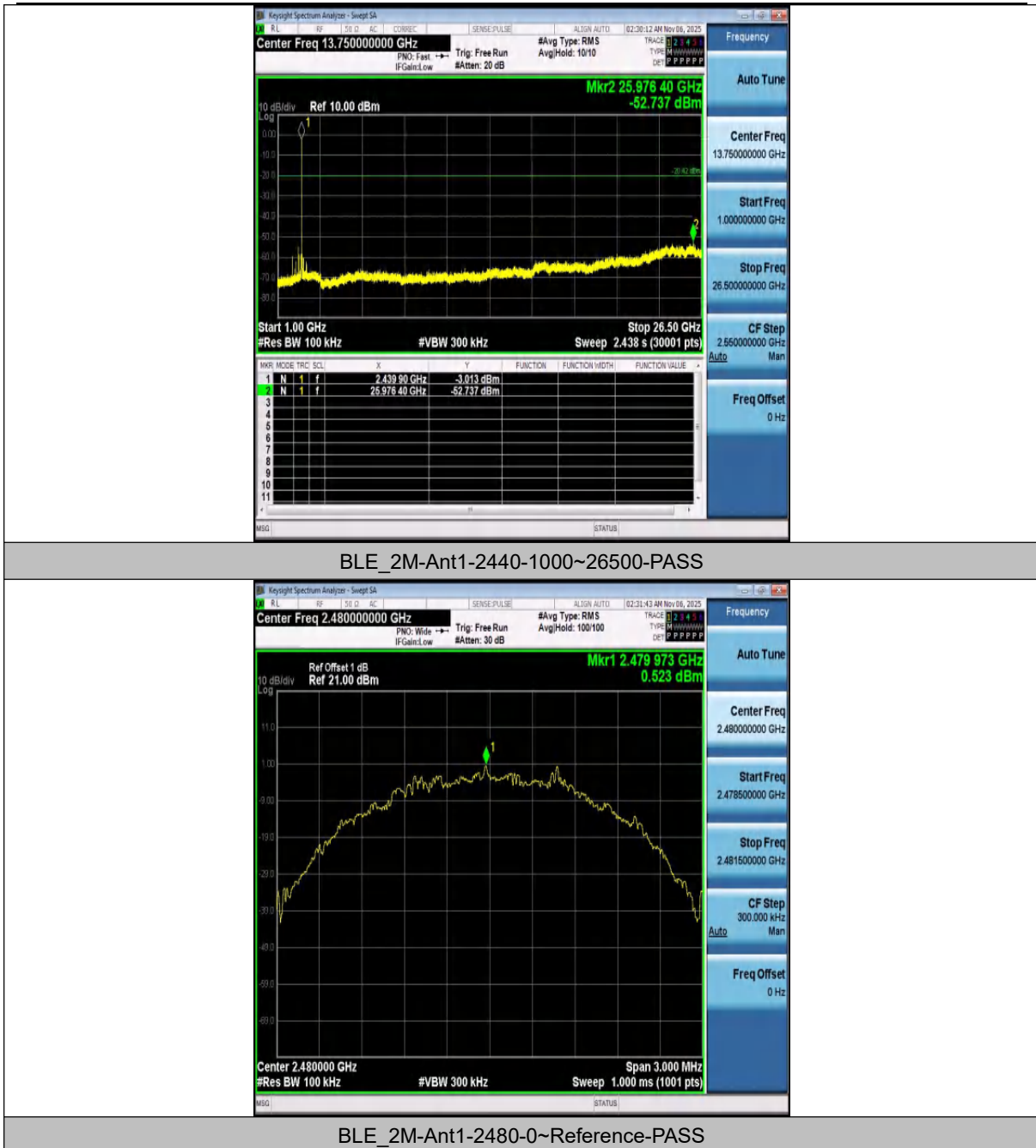
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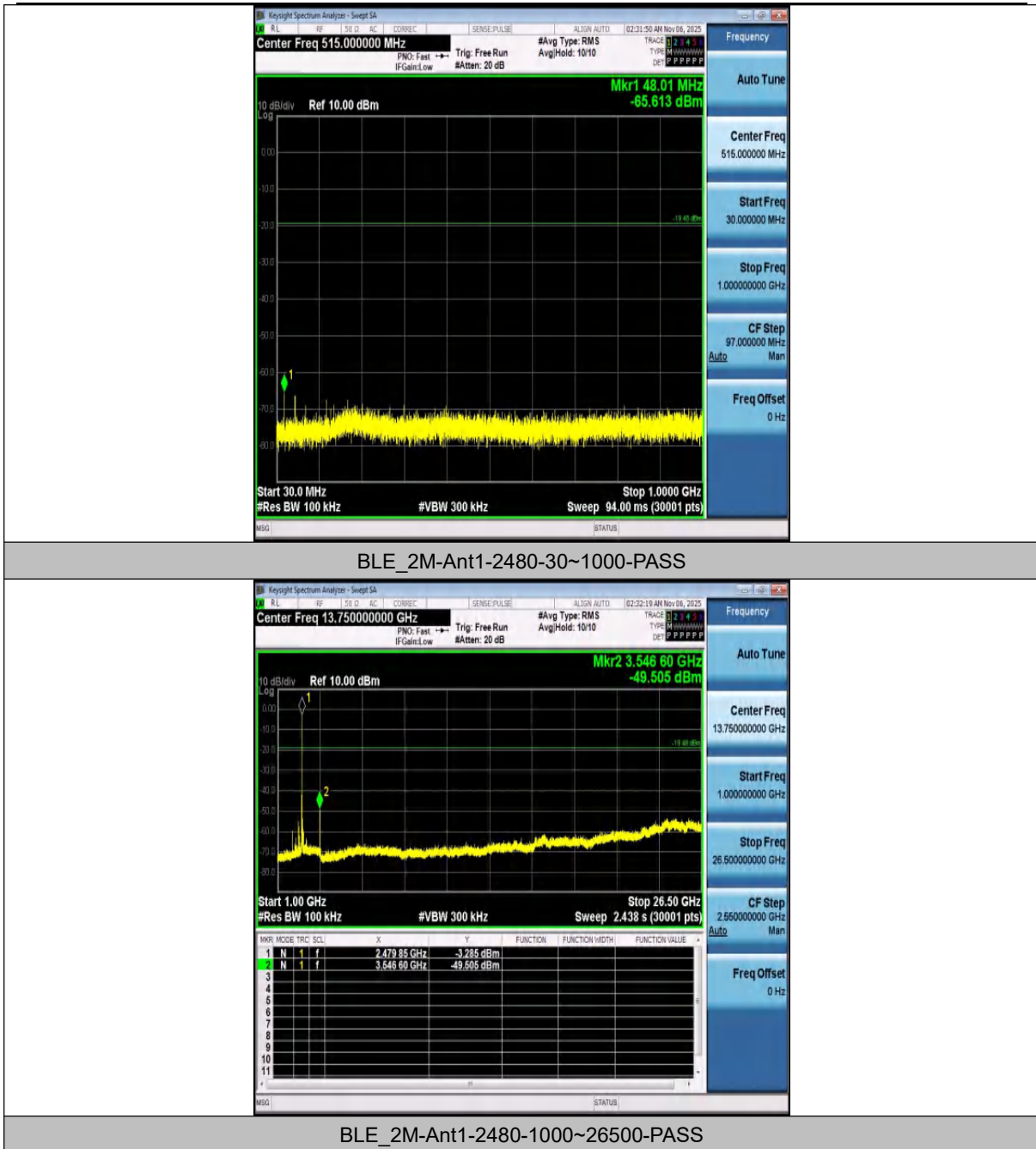


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.80	75.71	1.21
BLE_1M	Ant1	2440	2.12	2.80	75.71	1.21
BLE_1M	Ant1	2480	2.12	2.80	75.71	1.21
BLE_2M	Ant1	2402	1.06	2.18	48.62	3.13
BLE_2M	Ant1	2440	1.06	2.18	48.62	3.13
BLE_2M	Ant1	2480	1.06	2.18	48.62	3.13

Test Graphs

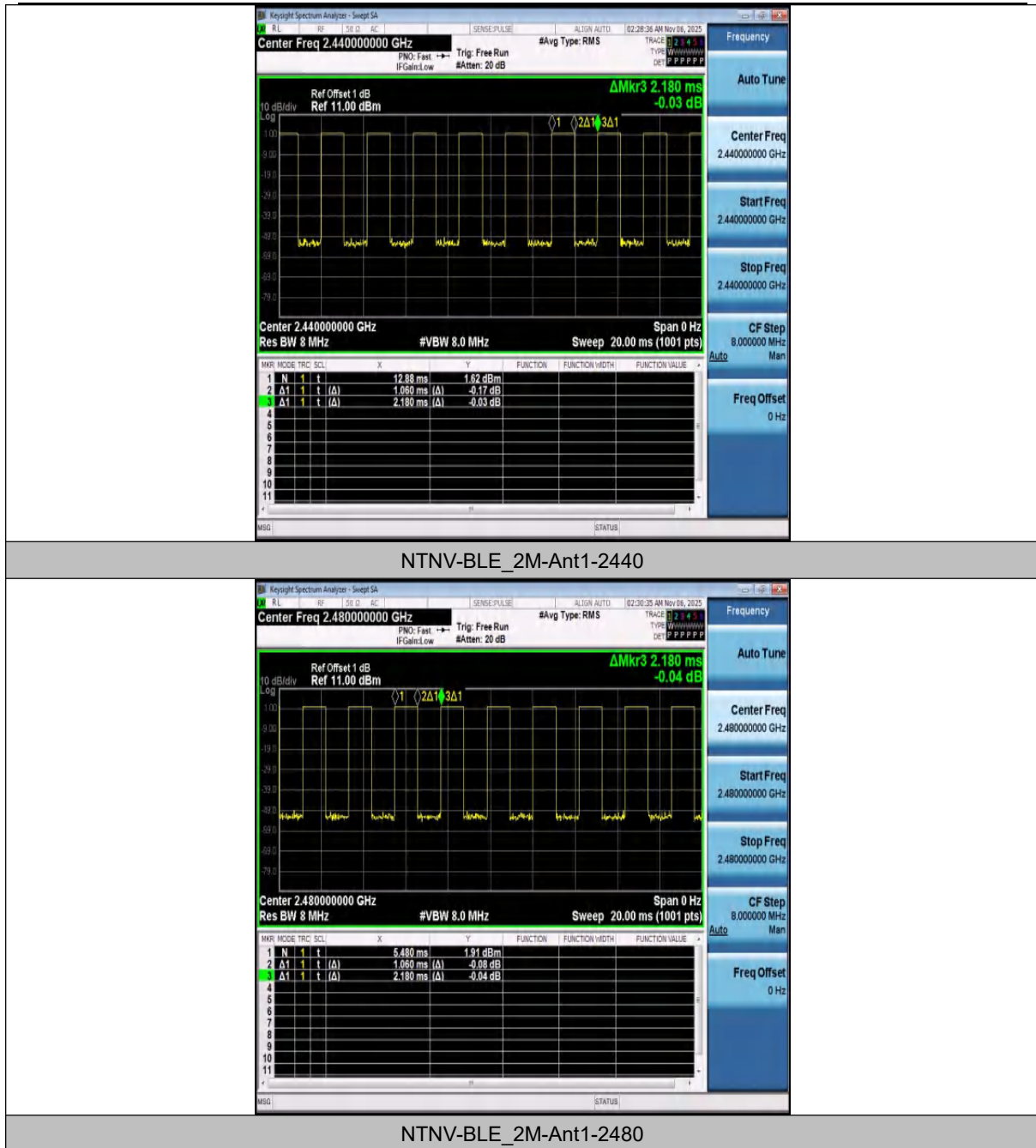




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