

Appendix Test Data

Report No.:	1812C50578612502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-7	Finish Test Date:	2025-12-18
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.1°C	Relative Humidity:	56%
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	0.644	2401.692	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.644	2439.688	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.672	2480.336	0.5	PASS
BLE_2M	Ant1	2402	0.664	2401.676	2402.340	0.5	PASS
BLE_2M	Ant1	2440	0.648	2439.684	2440.332	0.5	PASS
BLE_2M	Ant1	2480	0.656	2479.684	2480.340	0.5	PASS

Test Graphs





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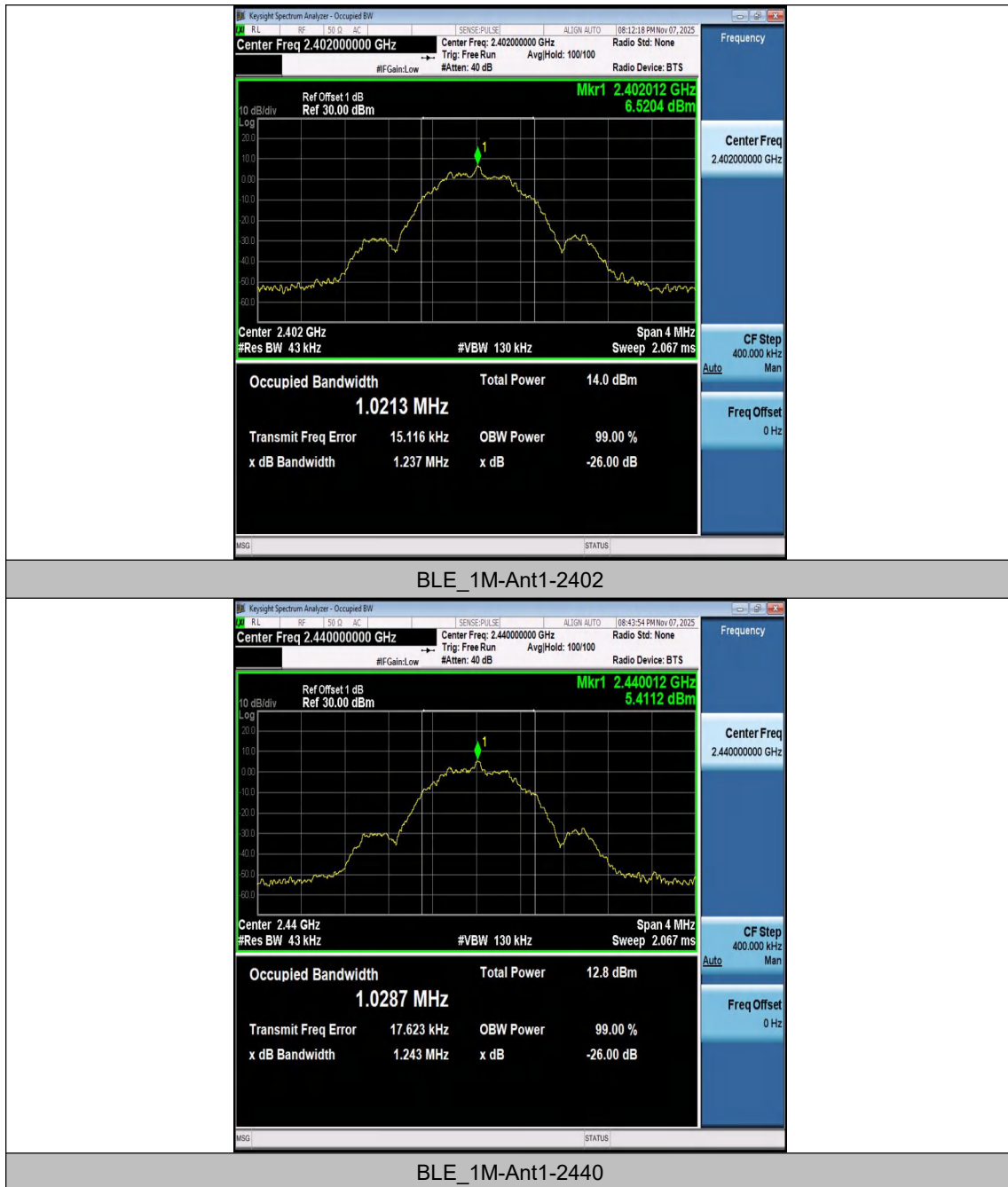
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0213	2401.5045	2402.5258	---	---
BLE_1M	Ant1	2440	1.0287	2439.5033	2440.5320	---	---
BLE_1M	Ant1	2480	1.0296	2479.5017	2480.5313	---	---
BLE_2M	Ant1	2402	1.0239	2401.5052	2402.5291	---	---
BLE_2M	Ant1	2440	1.0259	2439.5047	2440.5306	---	---
BLE_2M	Ant1	2480	1.0336	2479.4991	2480.5327	---	---

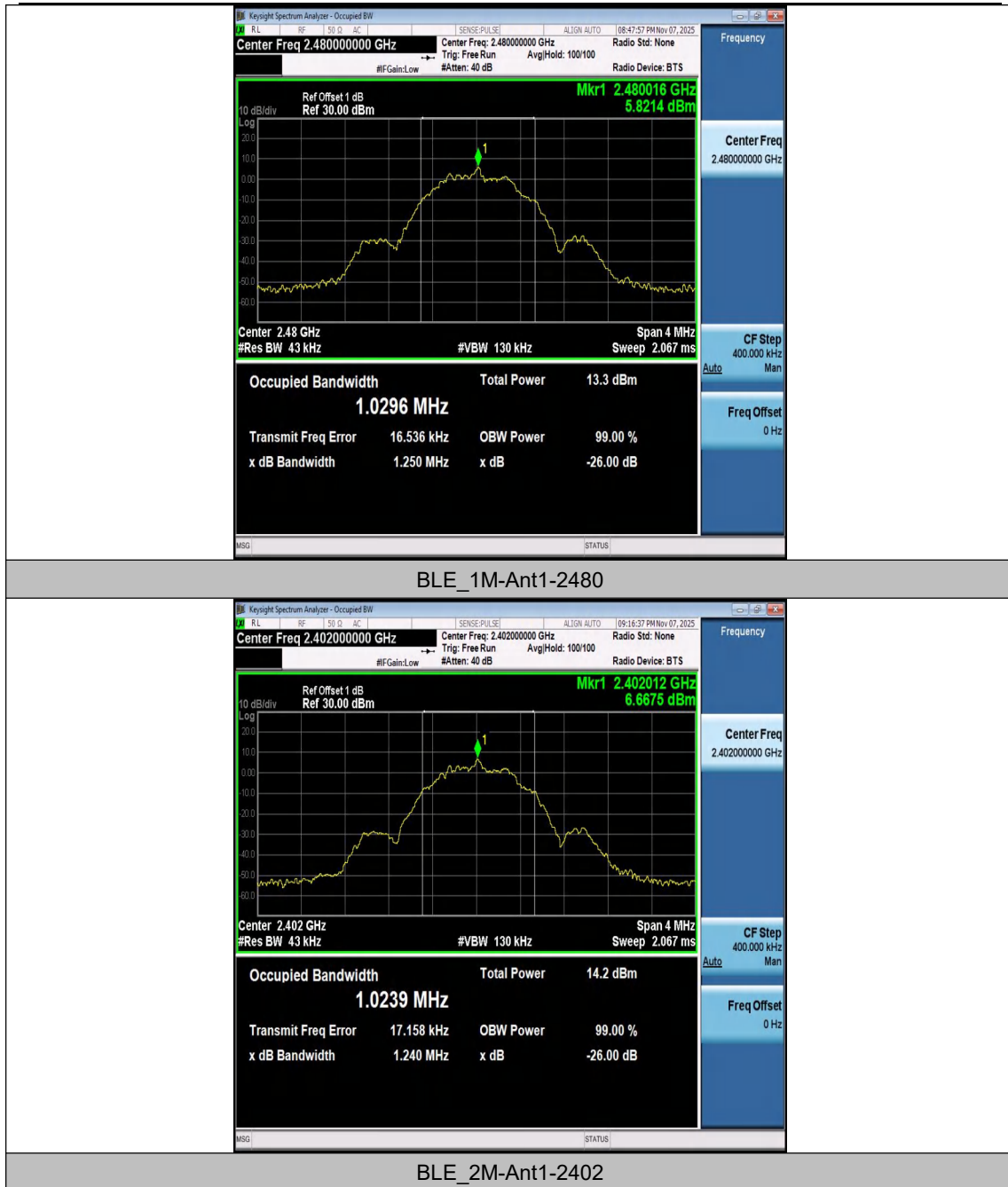
Test Graphs



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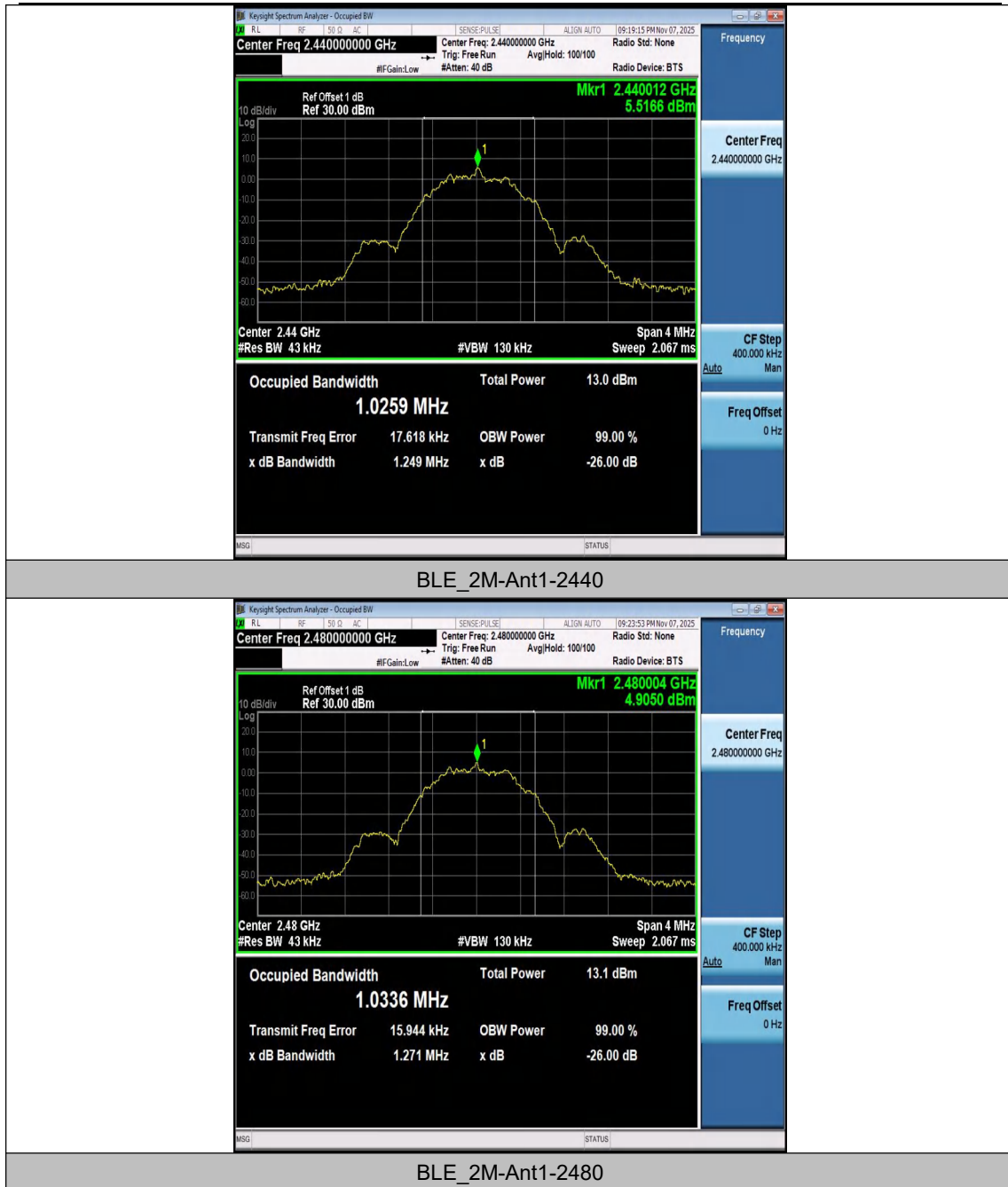
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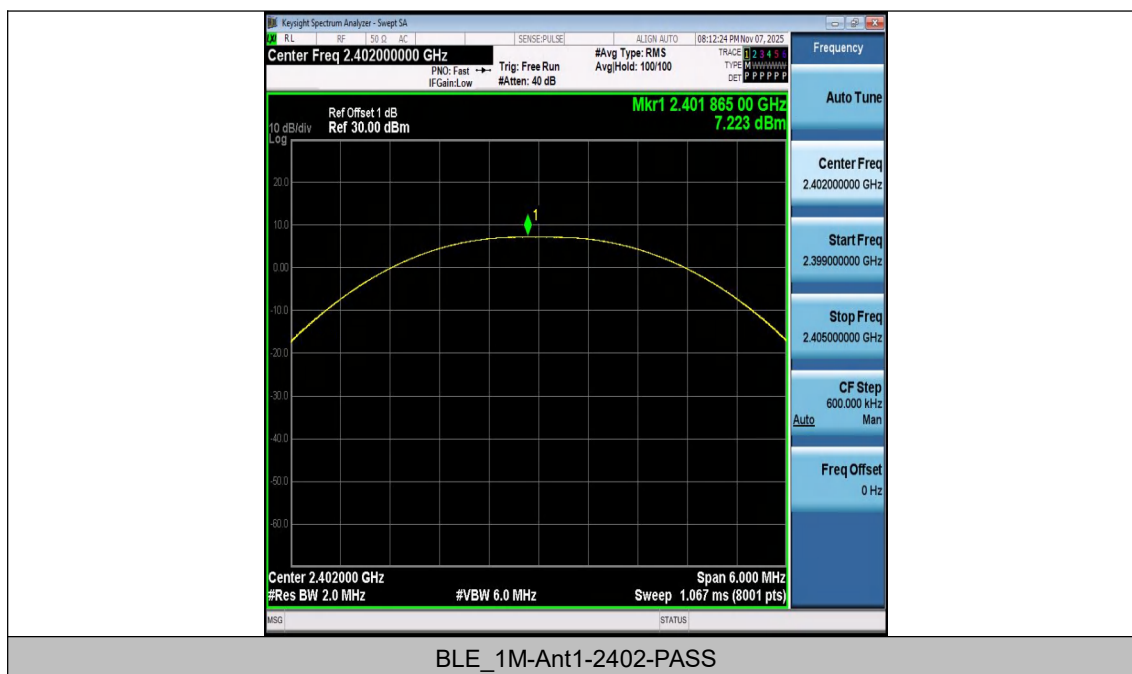
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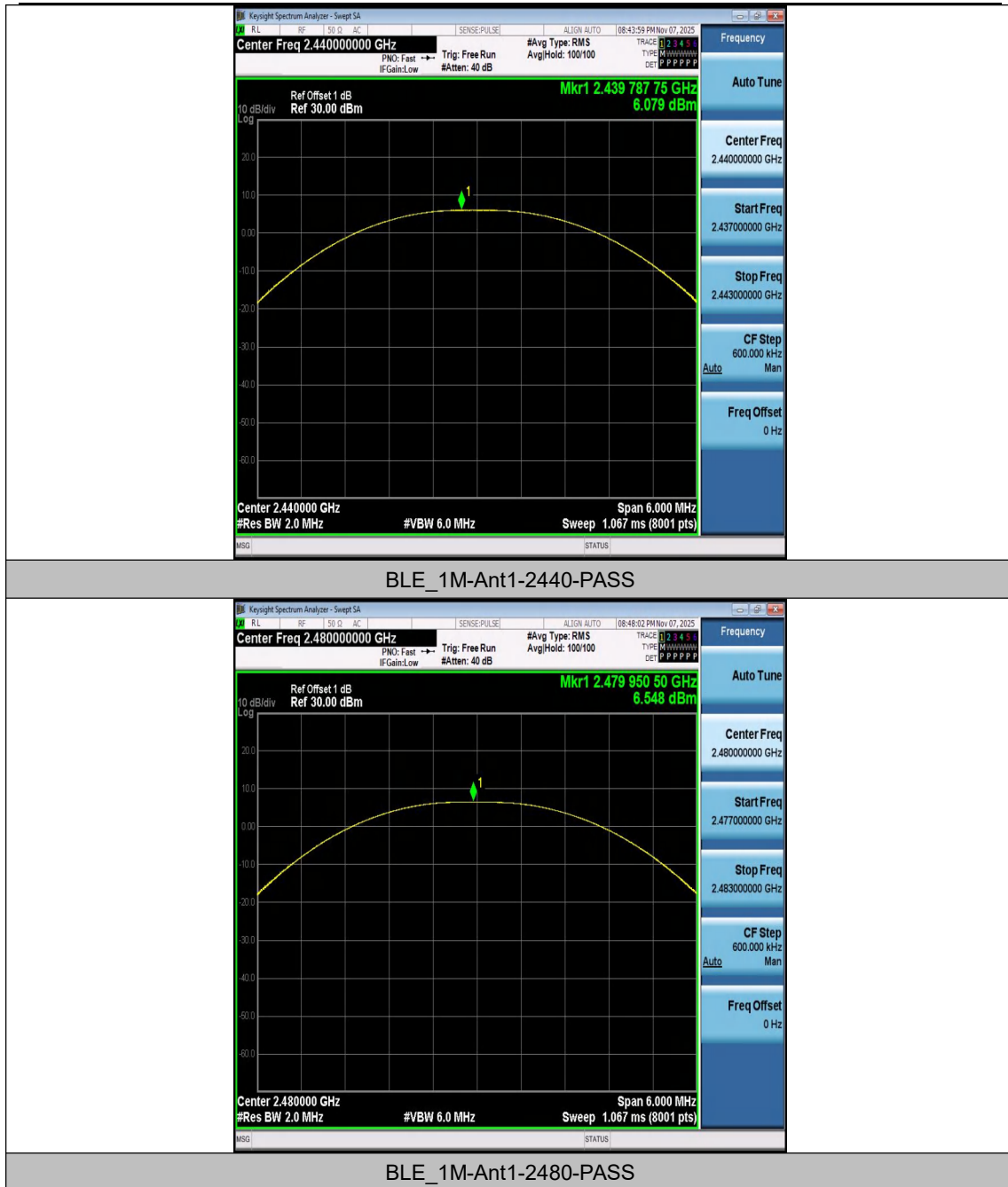
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.22	≤30	PASS
BLE_1M	Ant1	2440	6.08	≤30	PASS
BLE_1M	Ant1	2480	6.55	≤30	PASS
BLE_2M	Ant1	2402	7.36	≤30	PASS
BLE_2M	Ant1	2440	6.22	≤30	PASS
BLE_2M	Ant1	2480	6.67	≤30	PASS

Test Graphs Peak

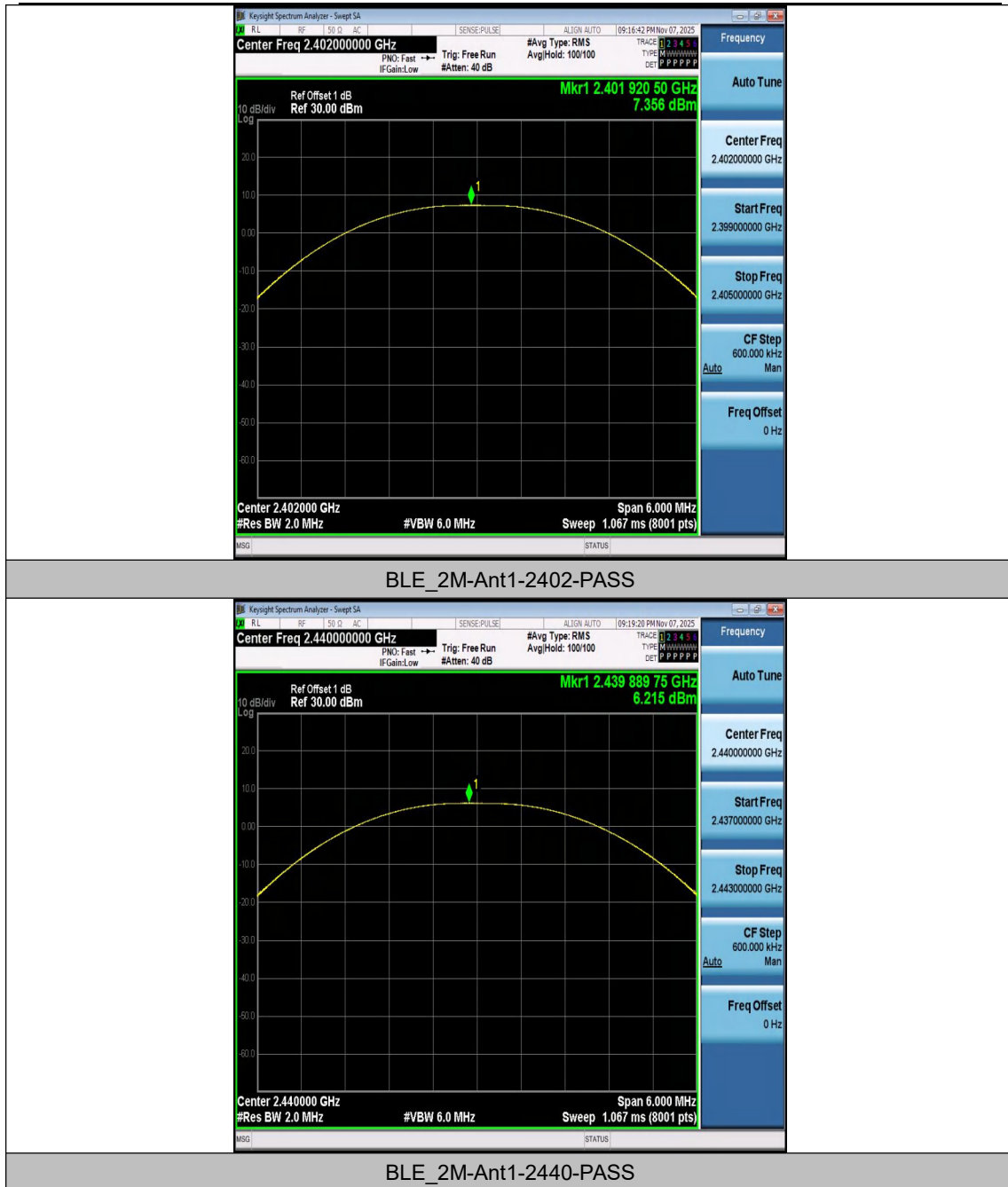




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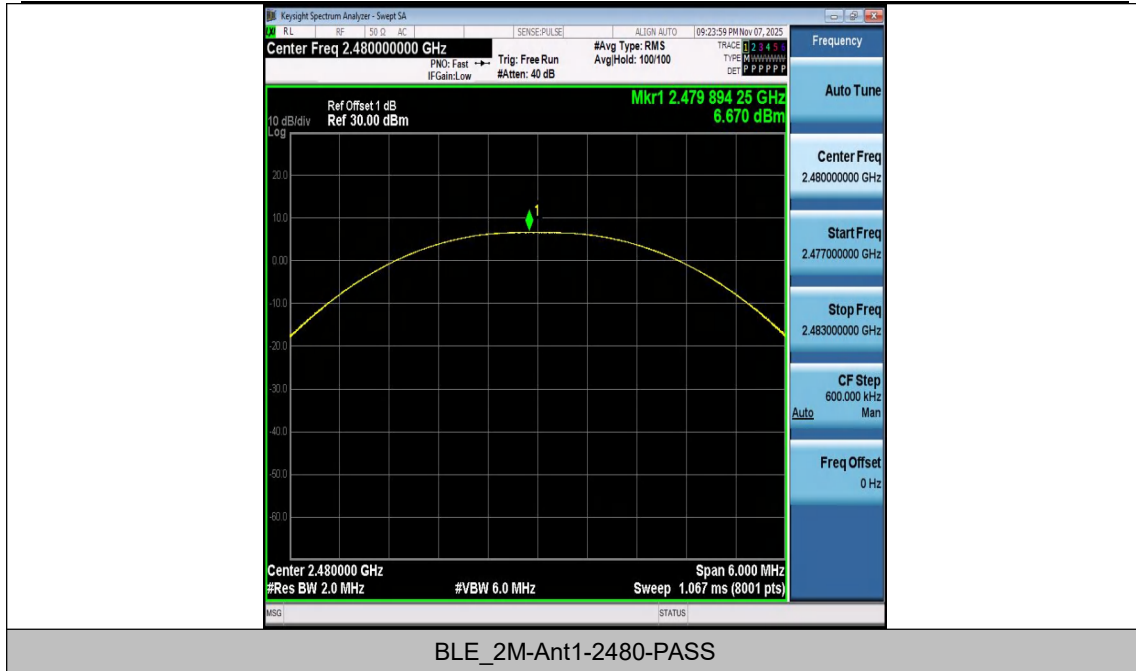
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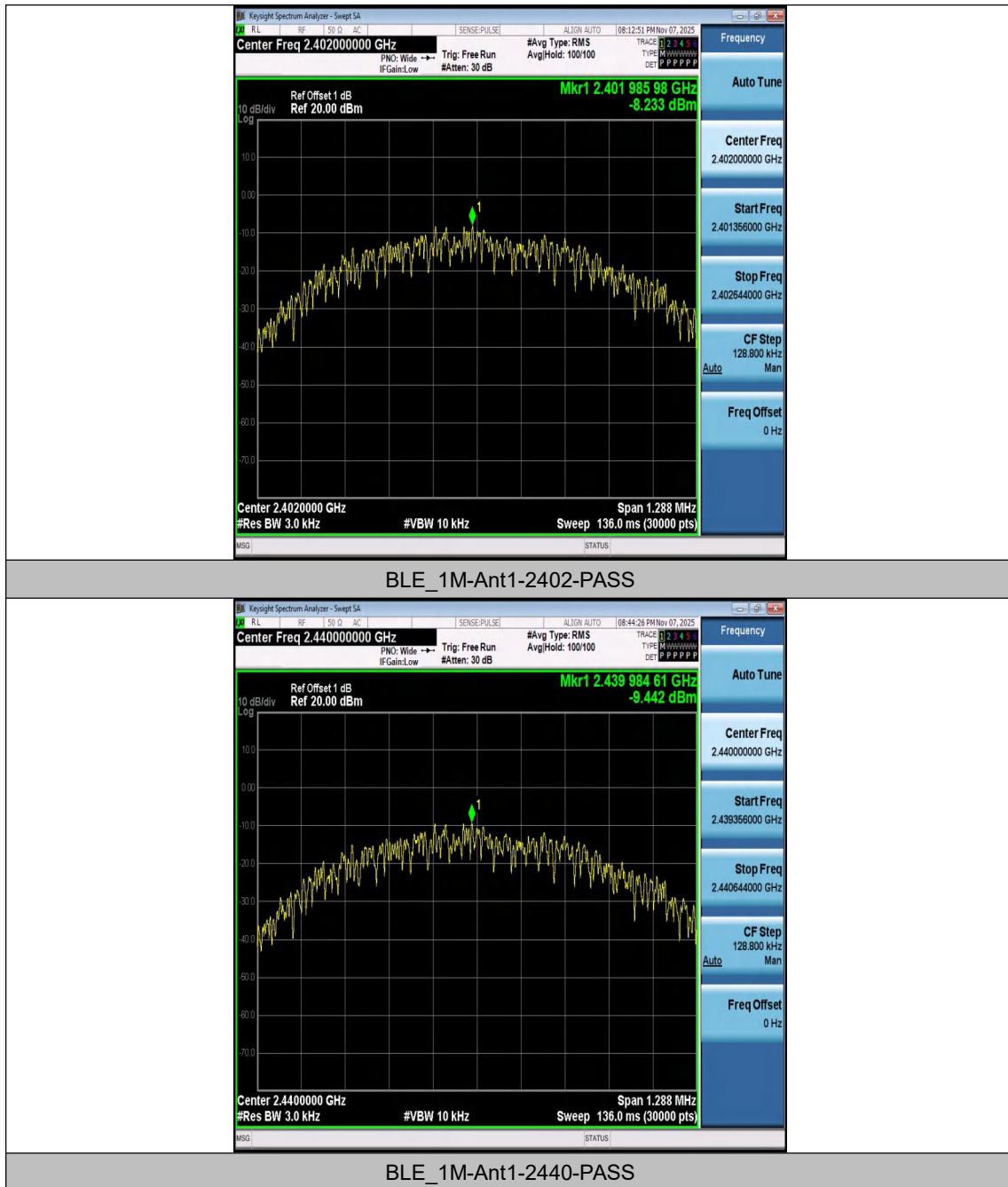
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.23	≤8.00	PASS
BLE_1M	Ant1	2440	-9.44	≤8.00	PASS
BLE_1M	Ant1	2480	-8.92	≤8.00	PASS
BLE_2M	Ant1	2402	-8.13	≤8.00	PASS
BLE_2M	Ant1	2440	-9.33	≤8.00	PASS
BLE_2M	Ant1	2480	-8.80	≤8.00	PASS

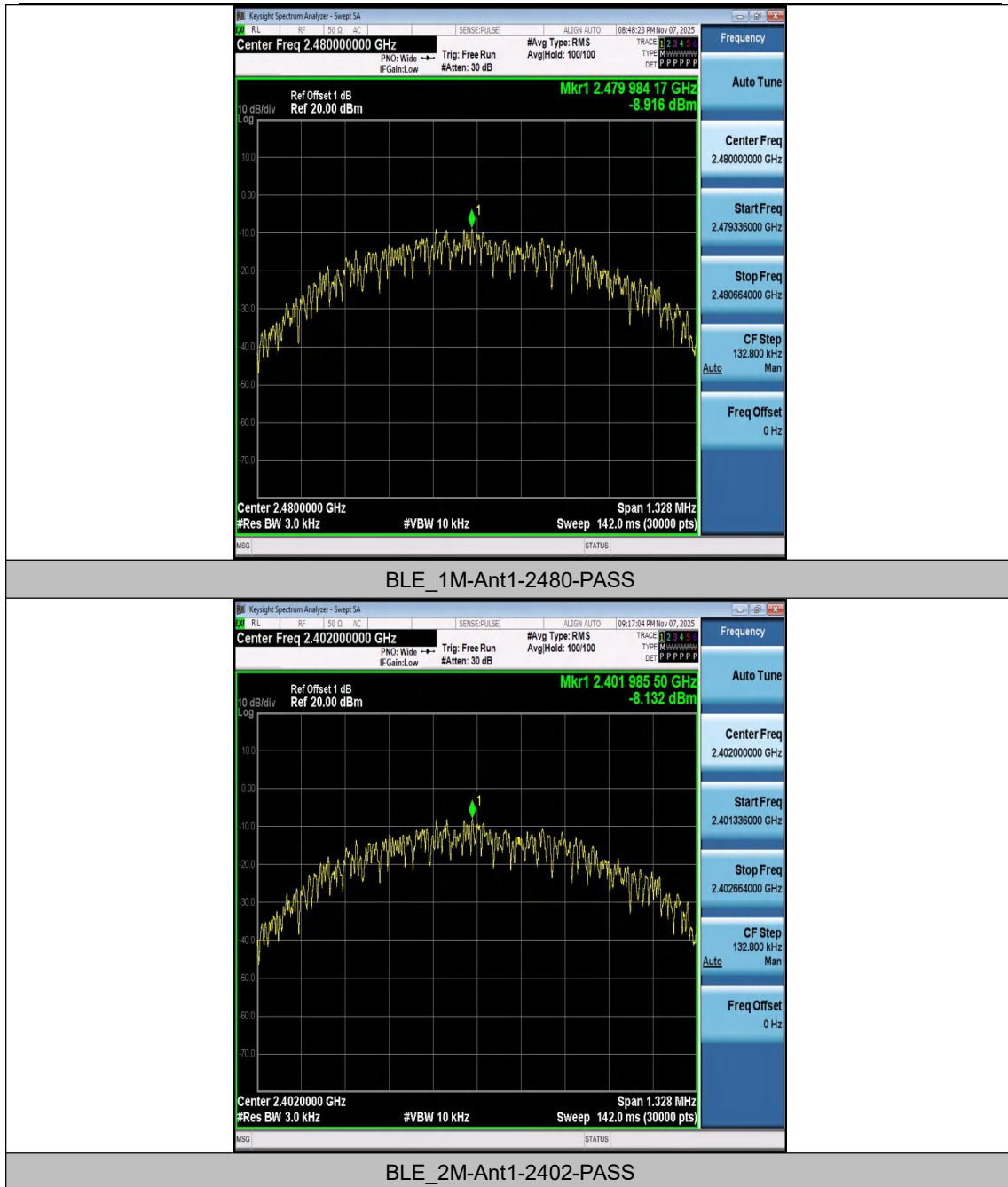
Test Graphs



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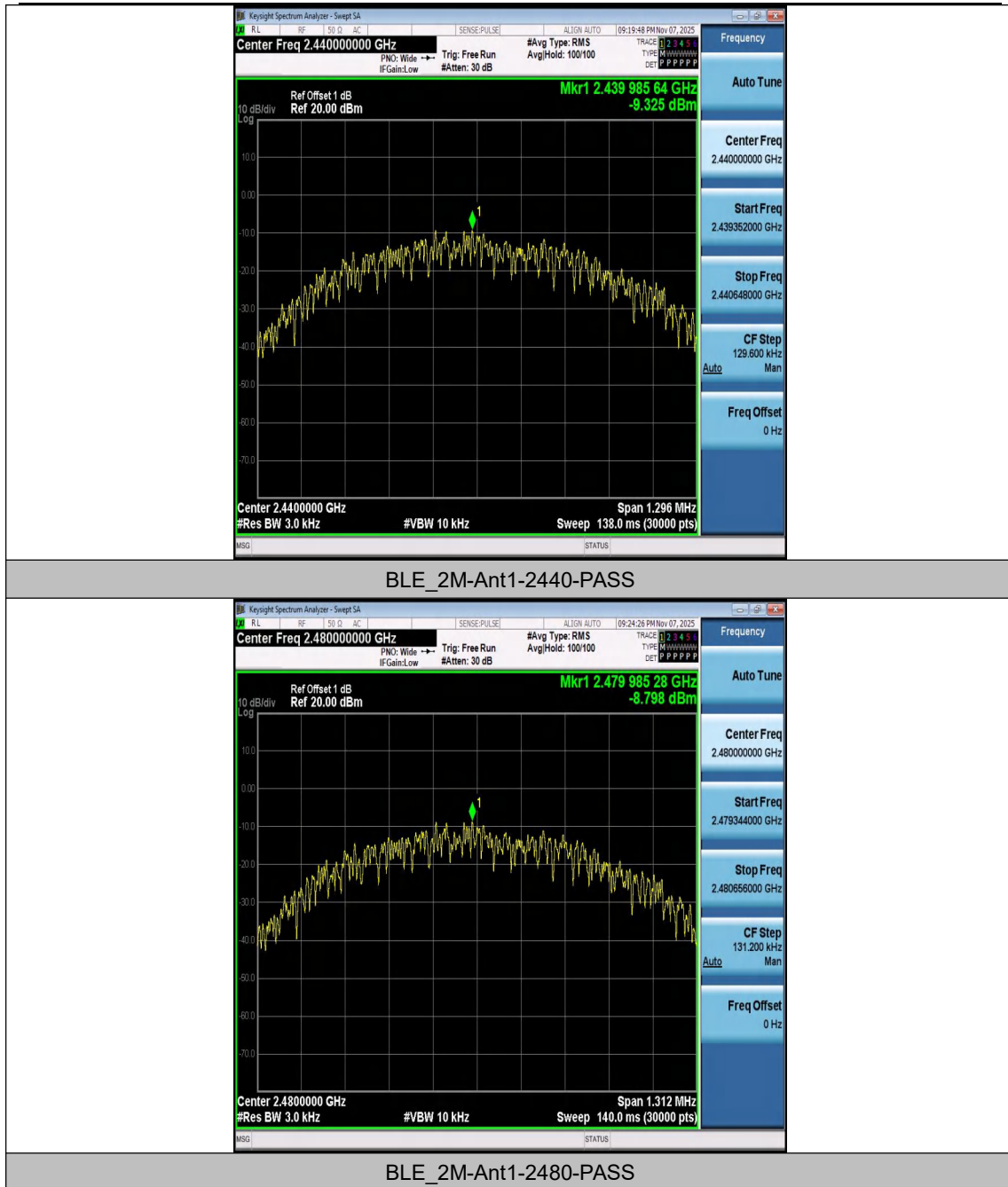
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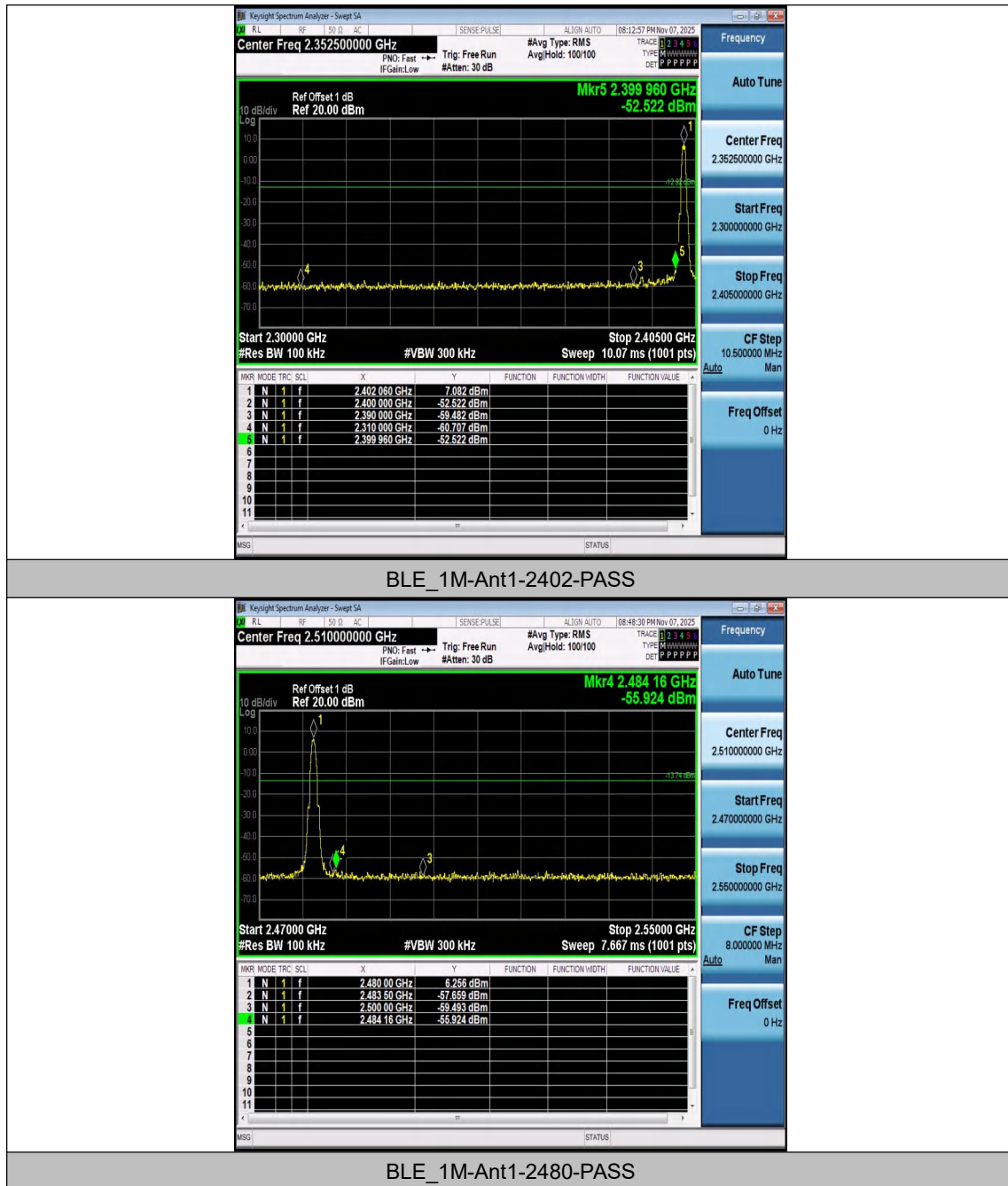
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.08	-52.52	≤-12.92	PASS
BLE_1M	Ant1	High	2480	6.26	-55.92	≤-13.74	PASS
BLE_2M	Ant1	Low	2402	6.99	-50.43	≤-13.01	PASS
BLE_2M	Ant1	High	2480	6.65	-55.77	≤-13.35	PASS

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

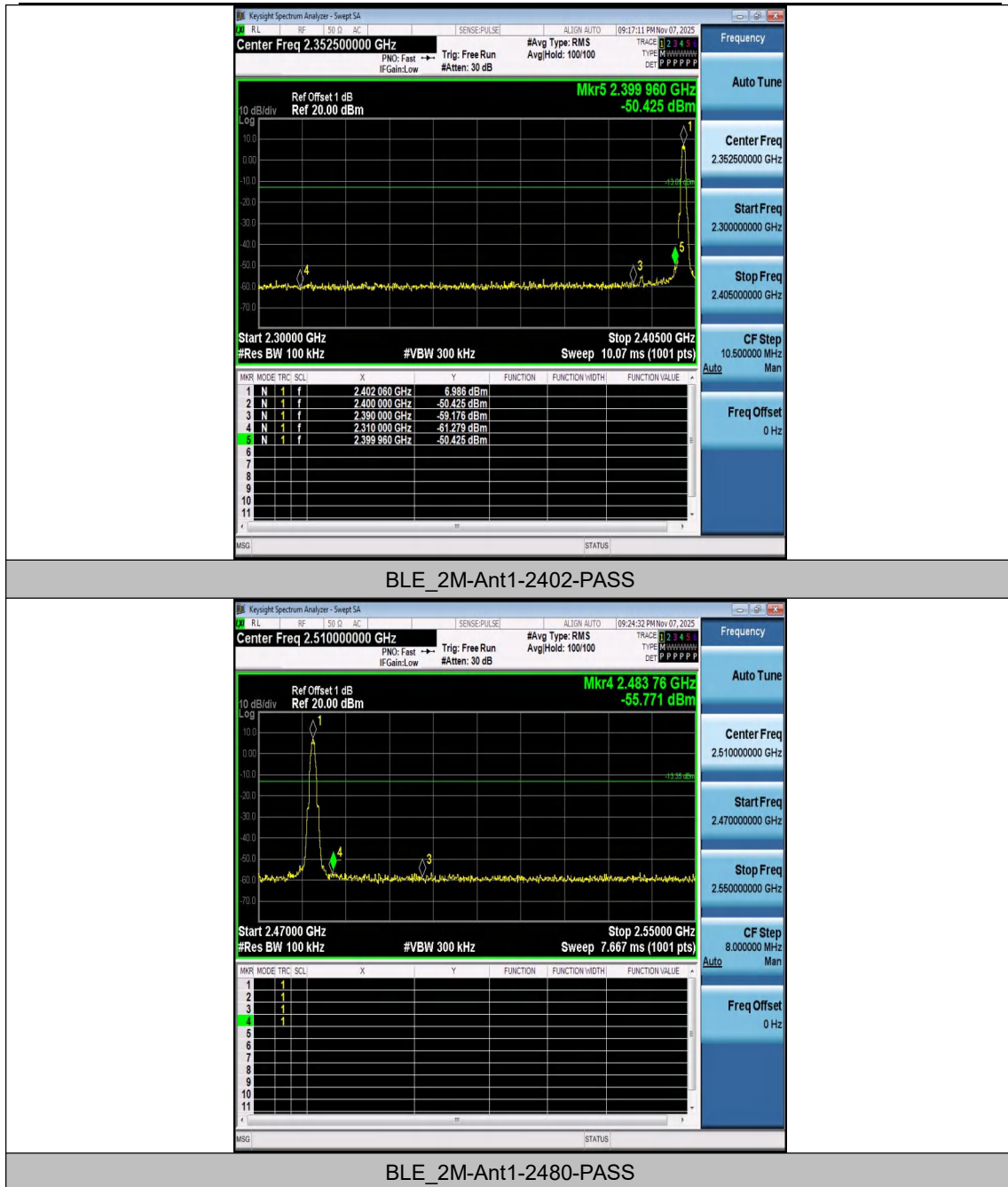
Test Graphs



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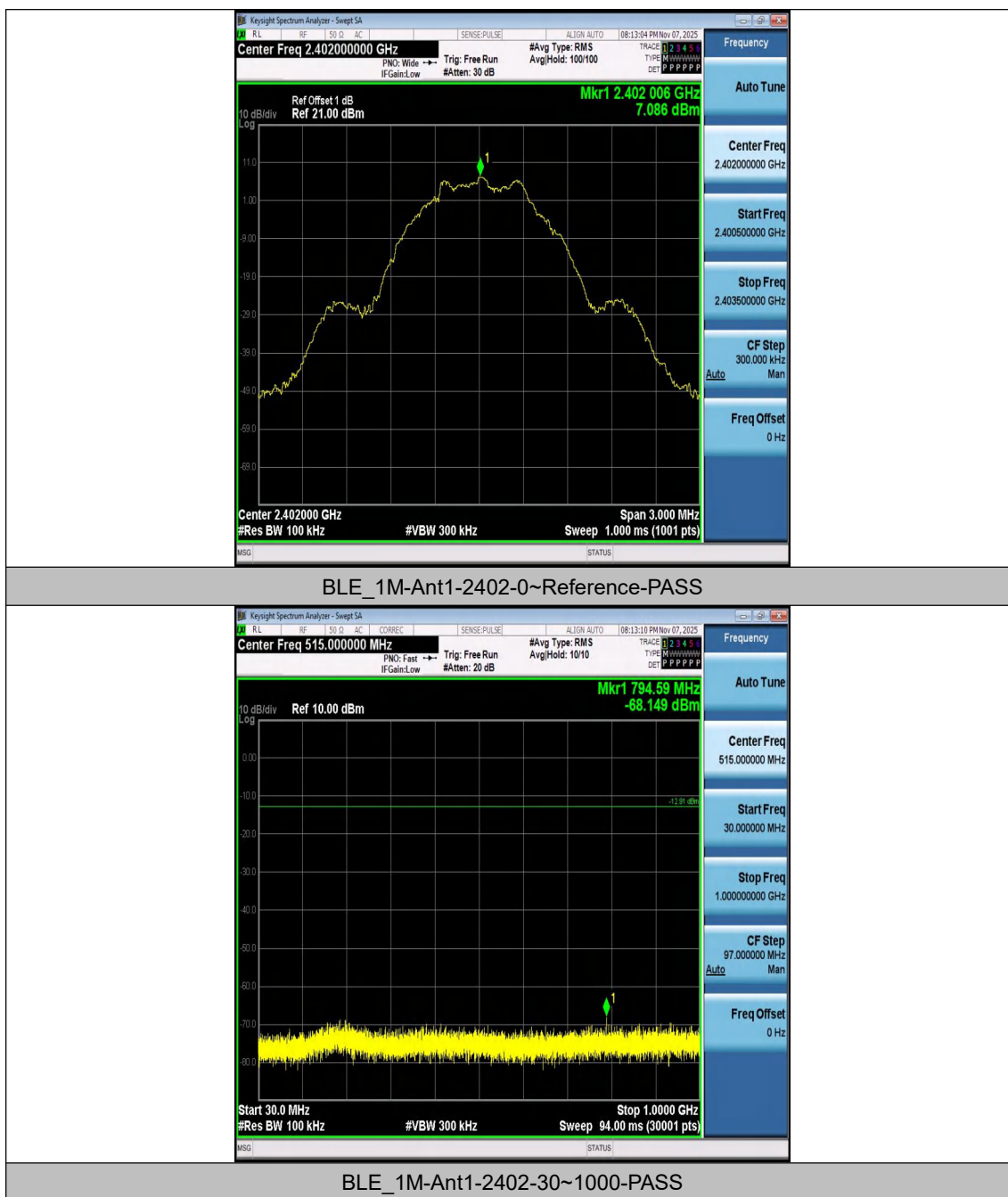
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	7.09	7.09	---	PASS
BLE_1M	Ant1	2402	30~1000	7.09	-68.15	≤-12.91	PASS
BLE_1M	Ant1	2402	1000~26500	7.09	-43.7	≤-12.91	PASS
BLE_1M	Ant1	2440	0~Reference	5.97	5.97	---	PASS
BLE_1M	Ant1	2440	30~1000	5.97	-68.74	≤-14.03	PASS
BLE_1M	Ant1	2440	1000~26500	5.97	-43.87	≤-14.03	PASS
BLE_1M	Ant1	2480	0~Reference	6.40	6.40	---	PASS
BLE_1M	Ant1	2480	30~1000	6.40	-68.16	≤-13.6	PASS
BLE_1M	Ant1	2480	1000~26500	6.40	-42.71	≤-13.6	PASS
BLE_2M	Ant1	2402	0~Reference	7.20	7.20	---	PASS
BLE_2M	Ant1	2402	30~1000	7.20	-68.14	≤-12.8	PASS
BLE_2M	Ant1	2402	1000~26500	7.20	-43.75	≤-12.8	PASS
BLE_2M	Ant1	2440	0~Reference	5.23	5.23	---	PASS
BLE_2M	Ant1	2440	30~1000	5.23	-68.72	≤-14.77	PASS
BLE_2M	Ant1	2440	1000~26500	5.23	-43.55	≤-14.77	PASS
BLE_2M	Ant1	2480	0~Reference	6.51	6.51	---	PASS
BLE_2M	Ant1	2480	30~1000	6.51	-68.66	≤-13.49	PASS
BLE_2M	Ant1	2480	1000~26500	6.51	-43.41	≤-13.49	PASS

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

Test Graphs



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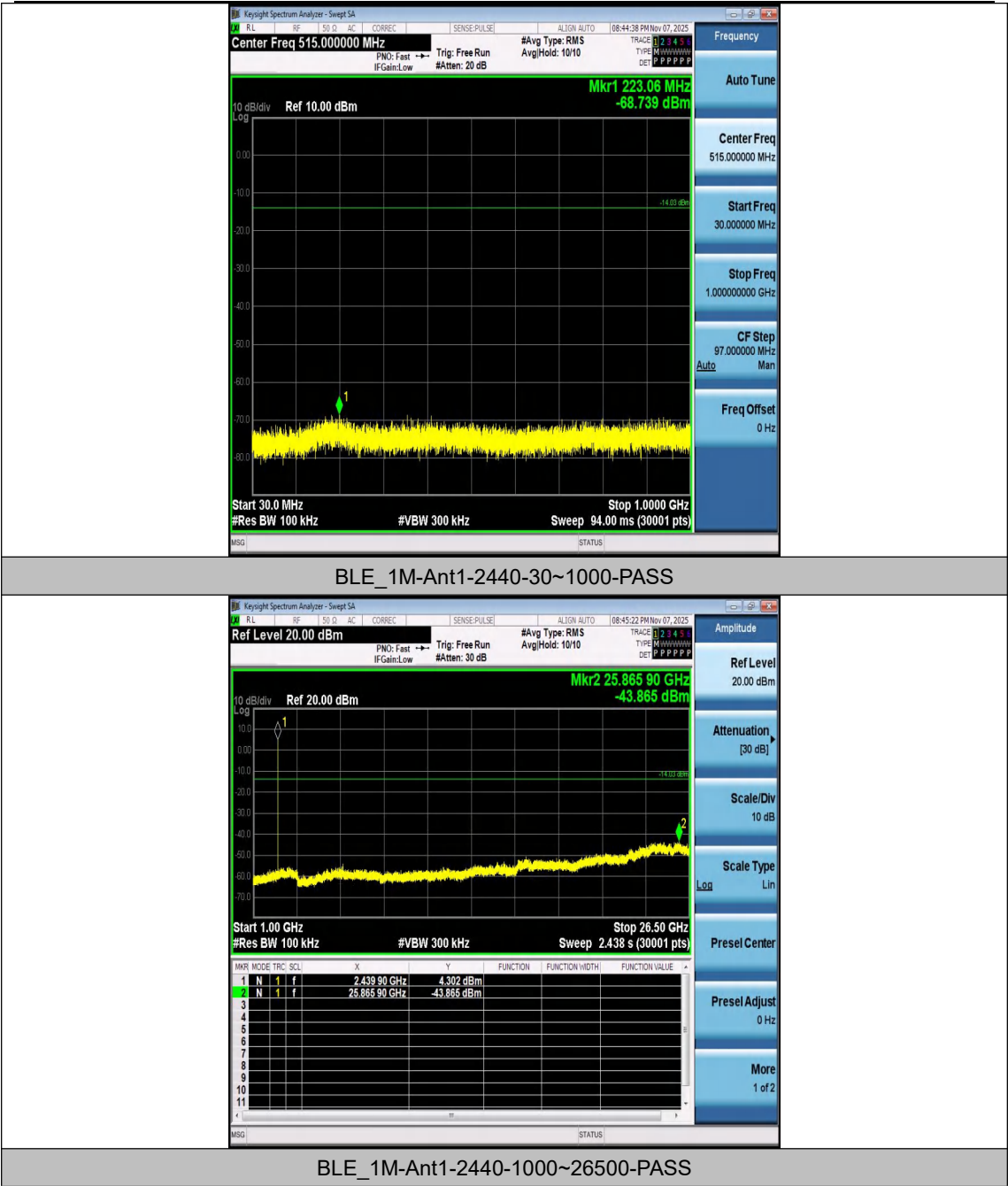
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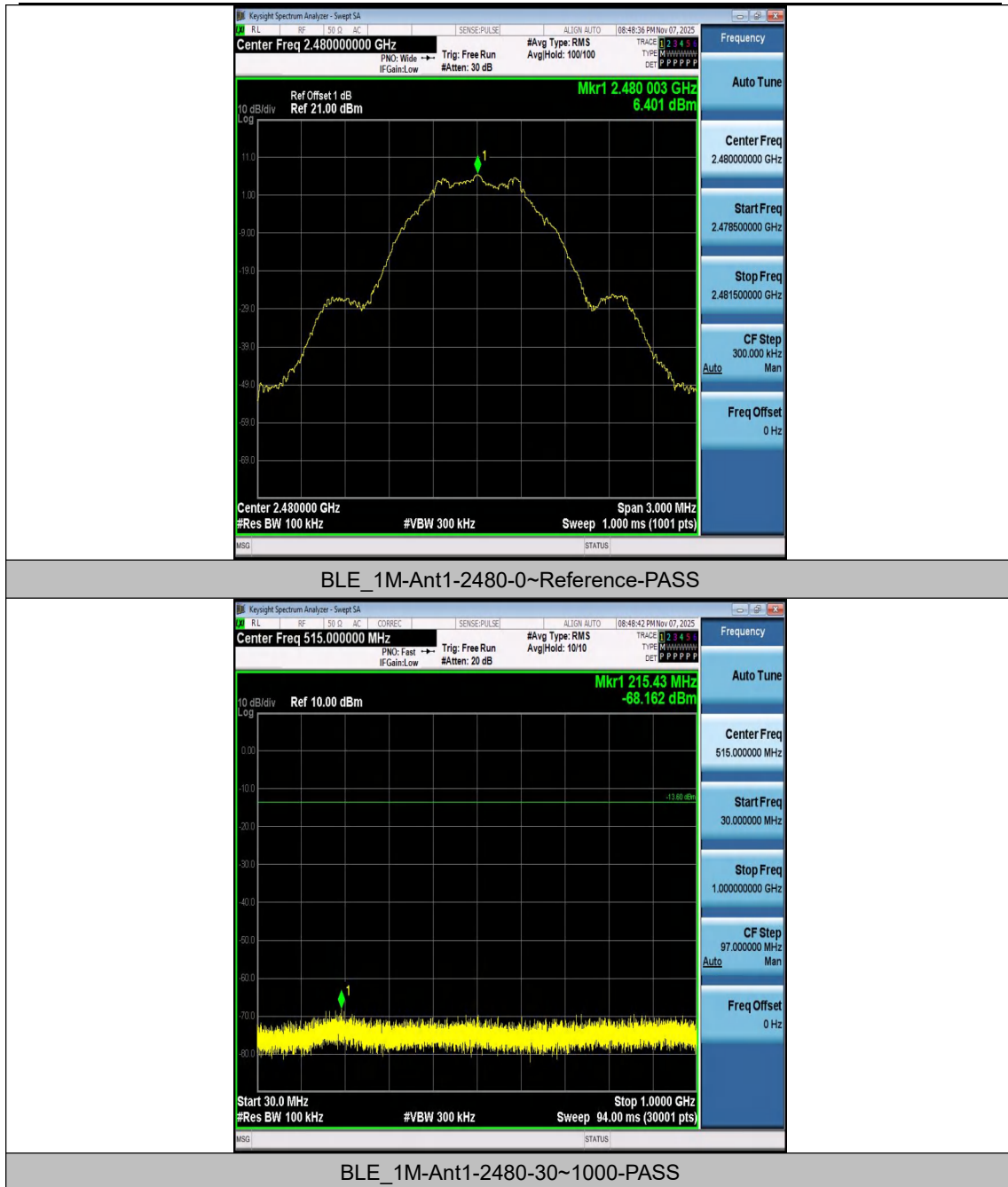


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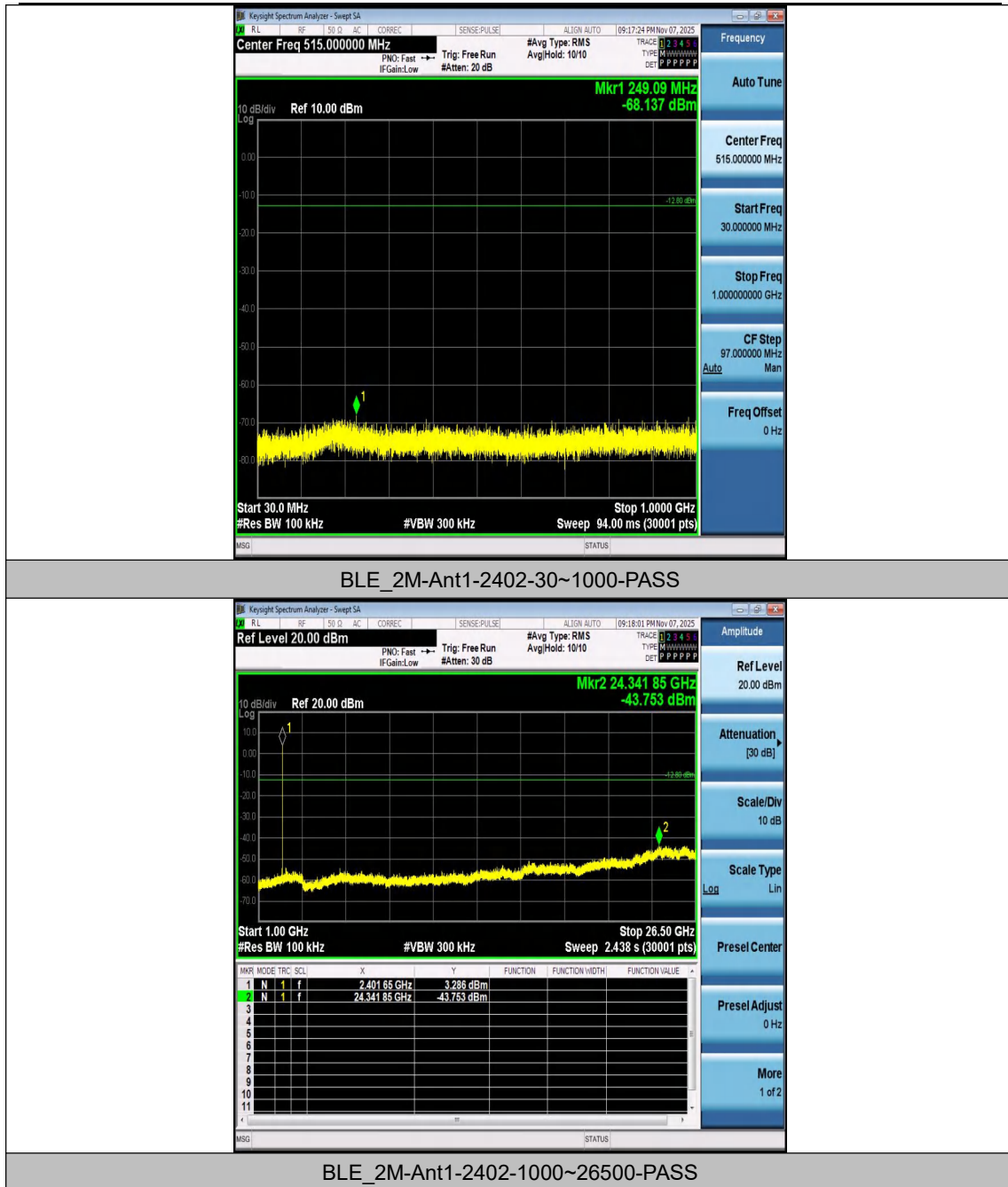
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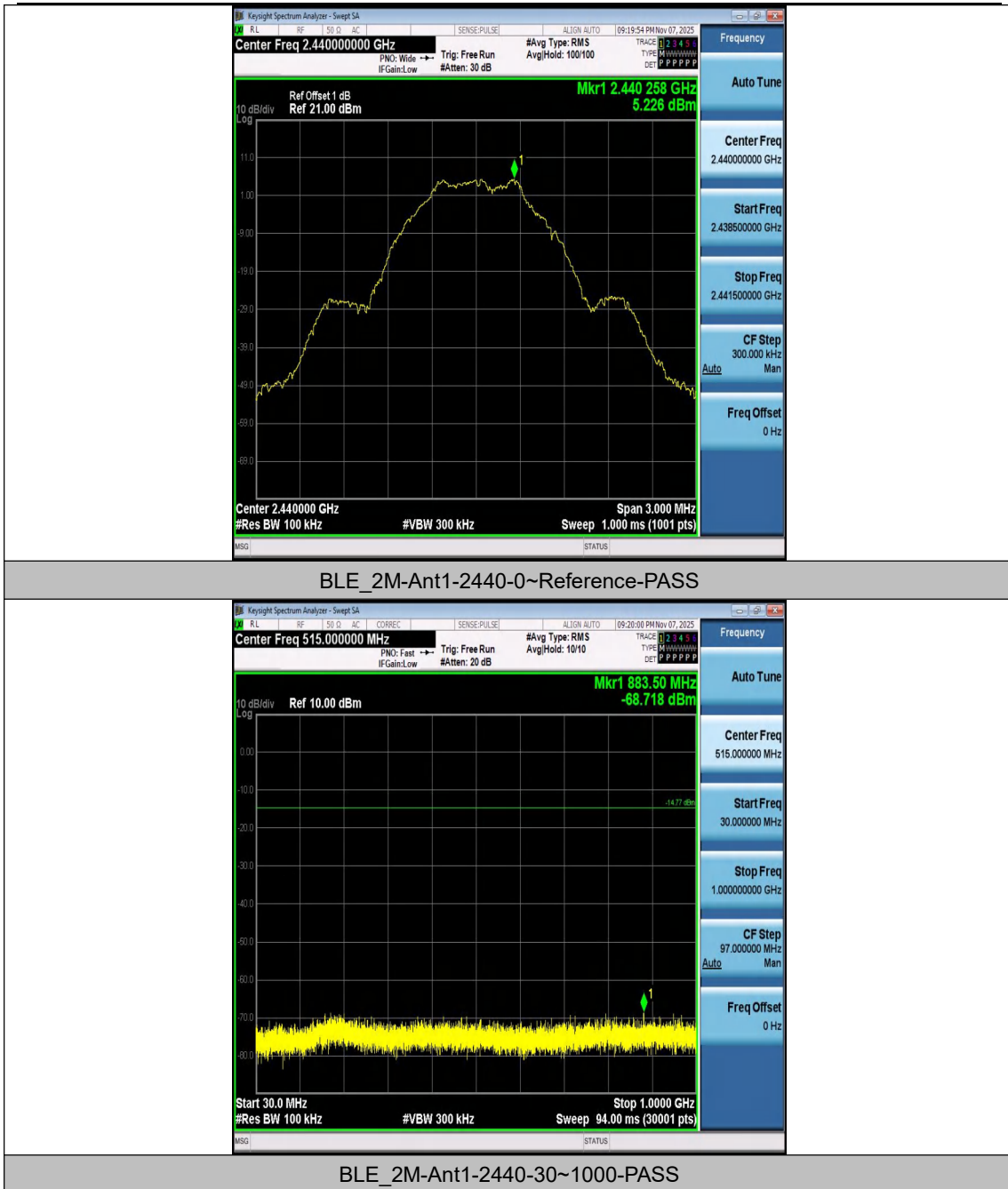
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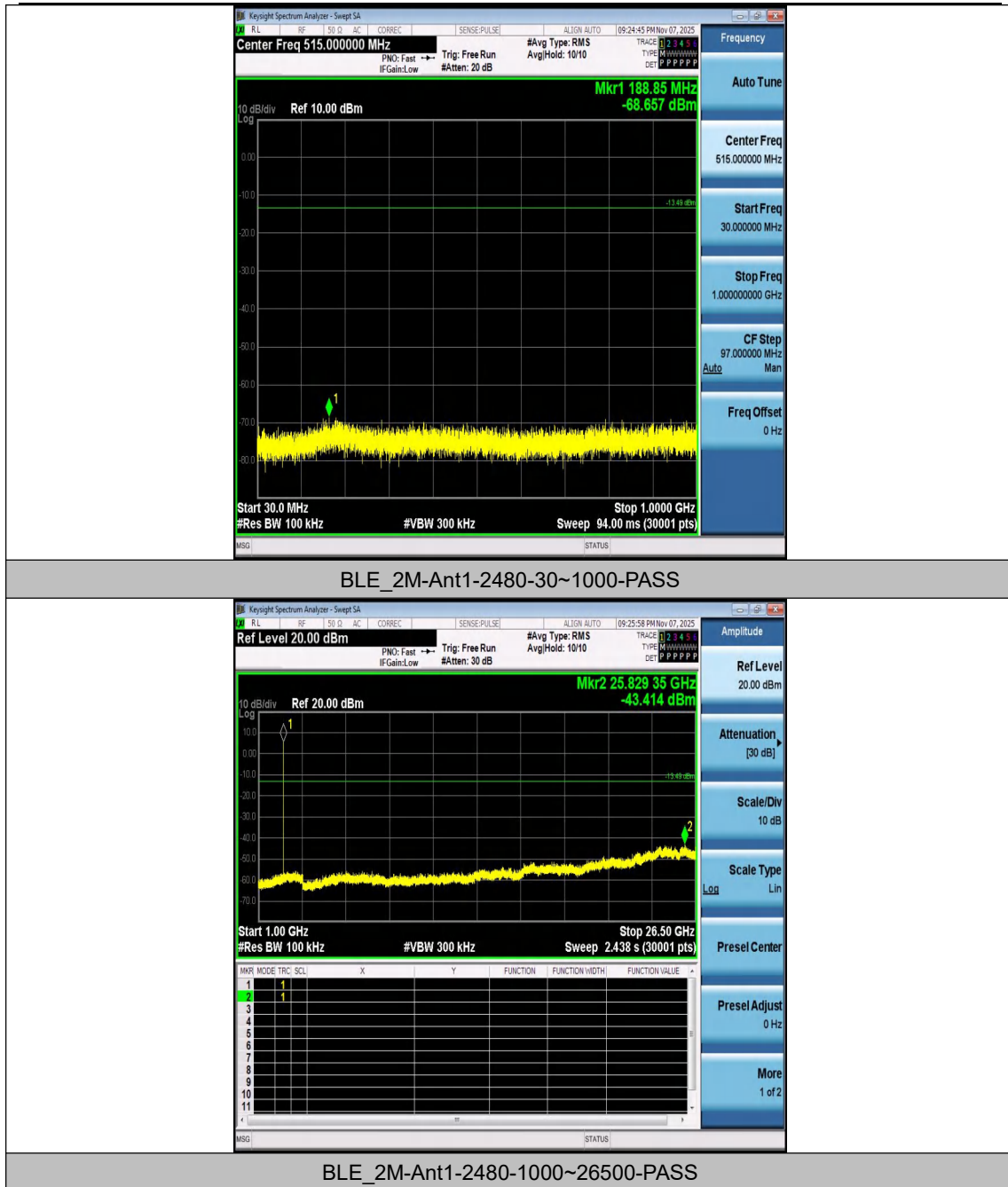
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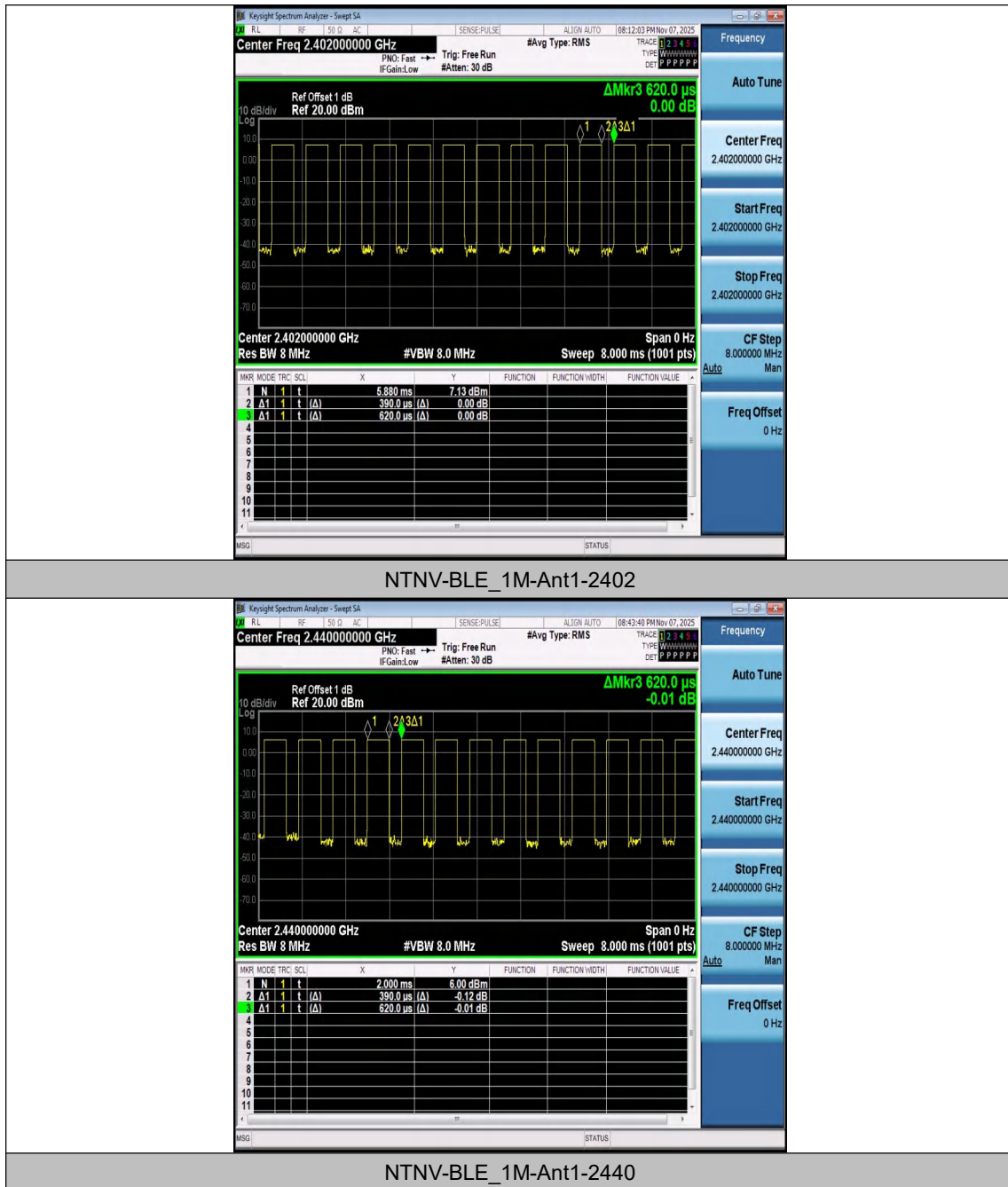
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2480	0.39	0.63	61.90	2.08

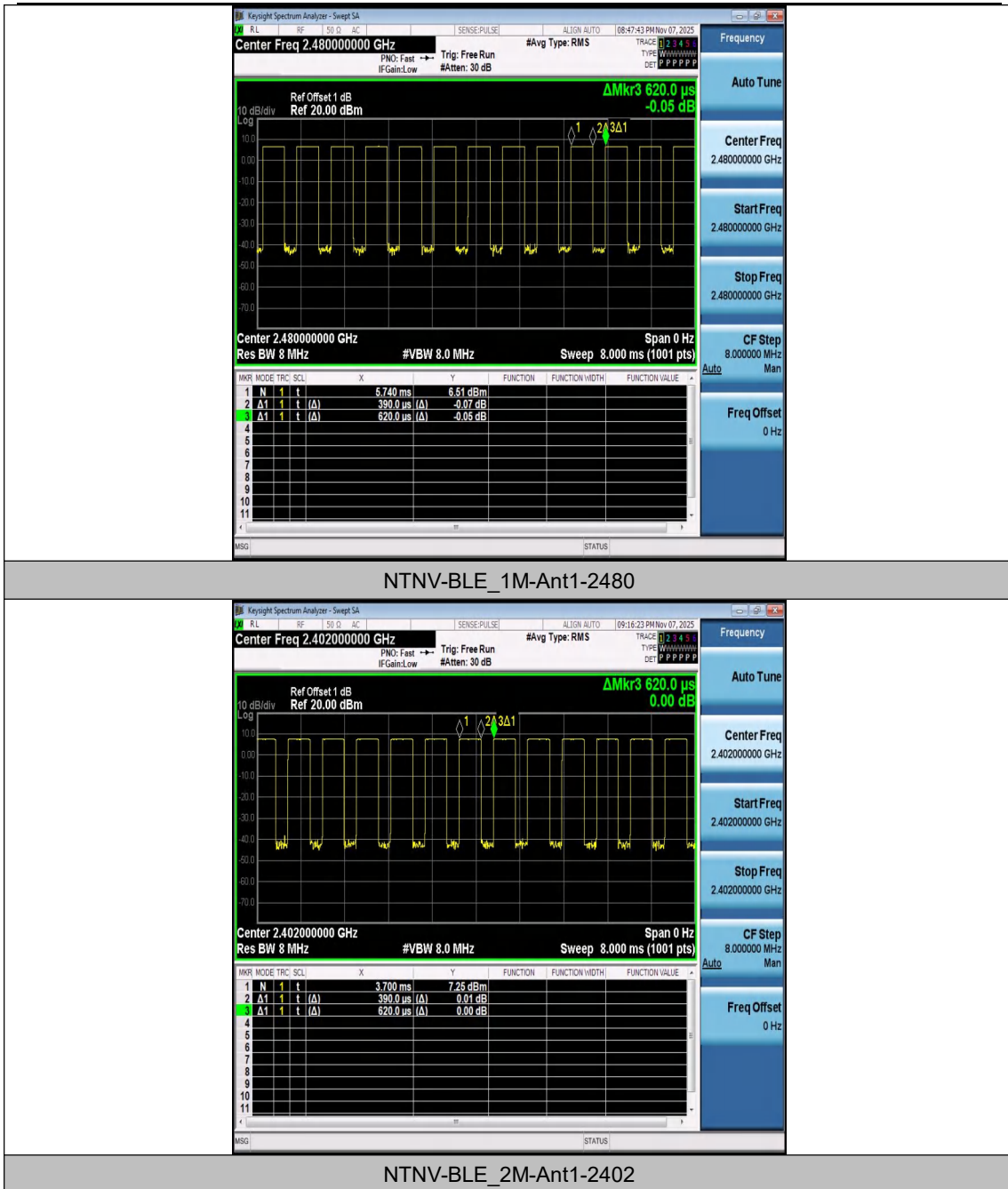
Test Graphs



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