

Appendix Test Data

Report No.:	1812C50616312502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-21	Finish Test Date:	2025-12-10
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.7°C	Relative Humidity:	55%
Pressure:	101kPa		

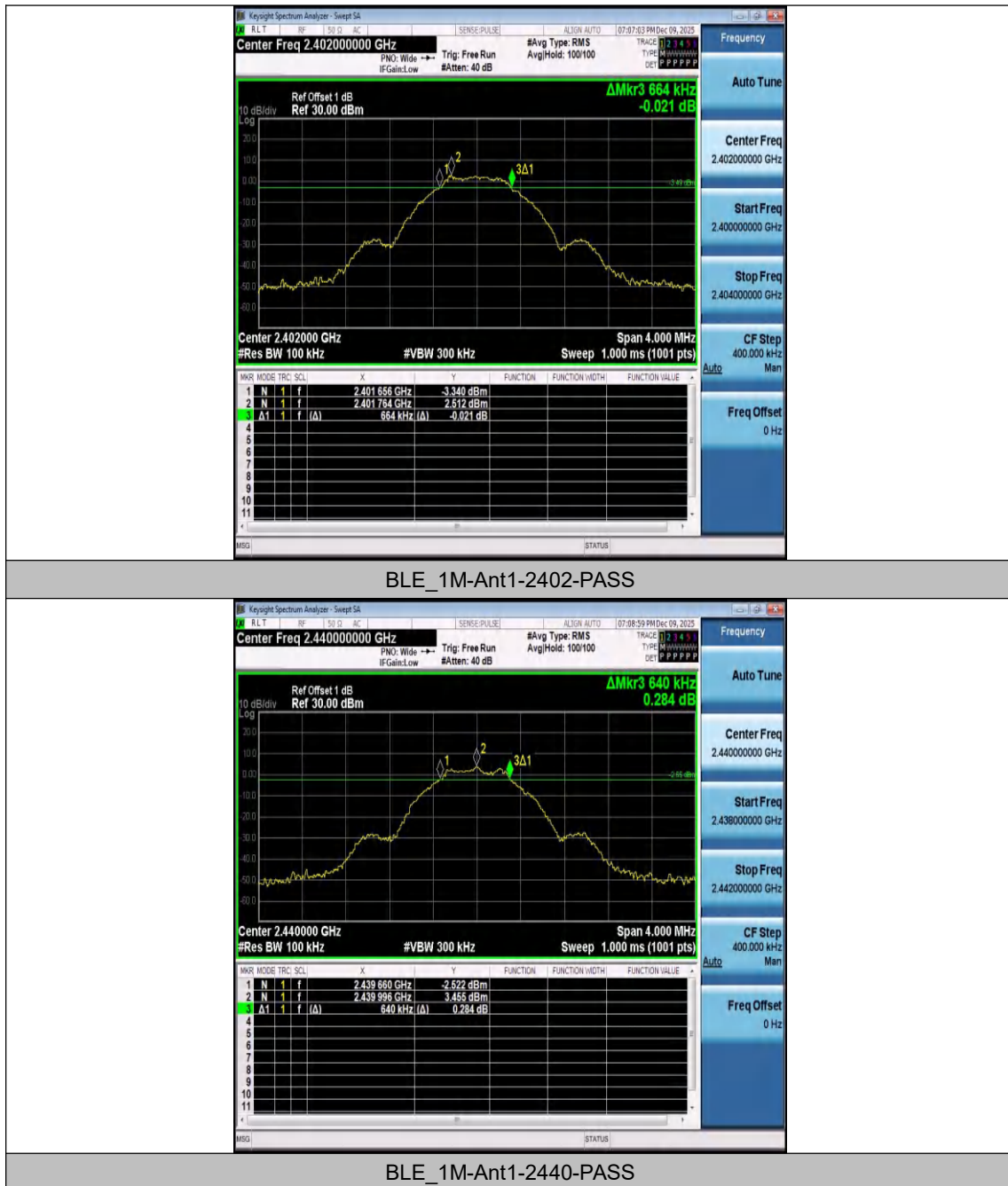


Appendix A: 6dB Bandwidth

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	0.640	2439.660	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.632	2479.676	2480.308	0.5	PASS
BLE_2M	Ant1	2402	1.220	2401.344	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.100	2439.436	2440.536	0.5	PASS
BLE_2M	Ant1	2480	1.116	2479.444	2480.560	0.5	PASS

Test Graphs



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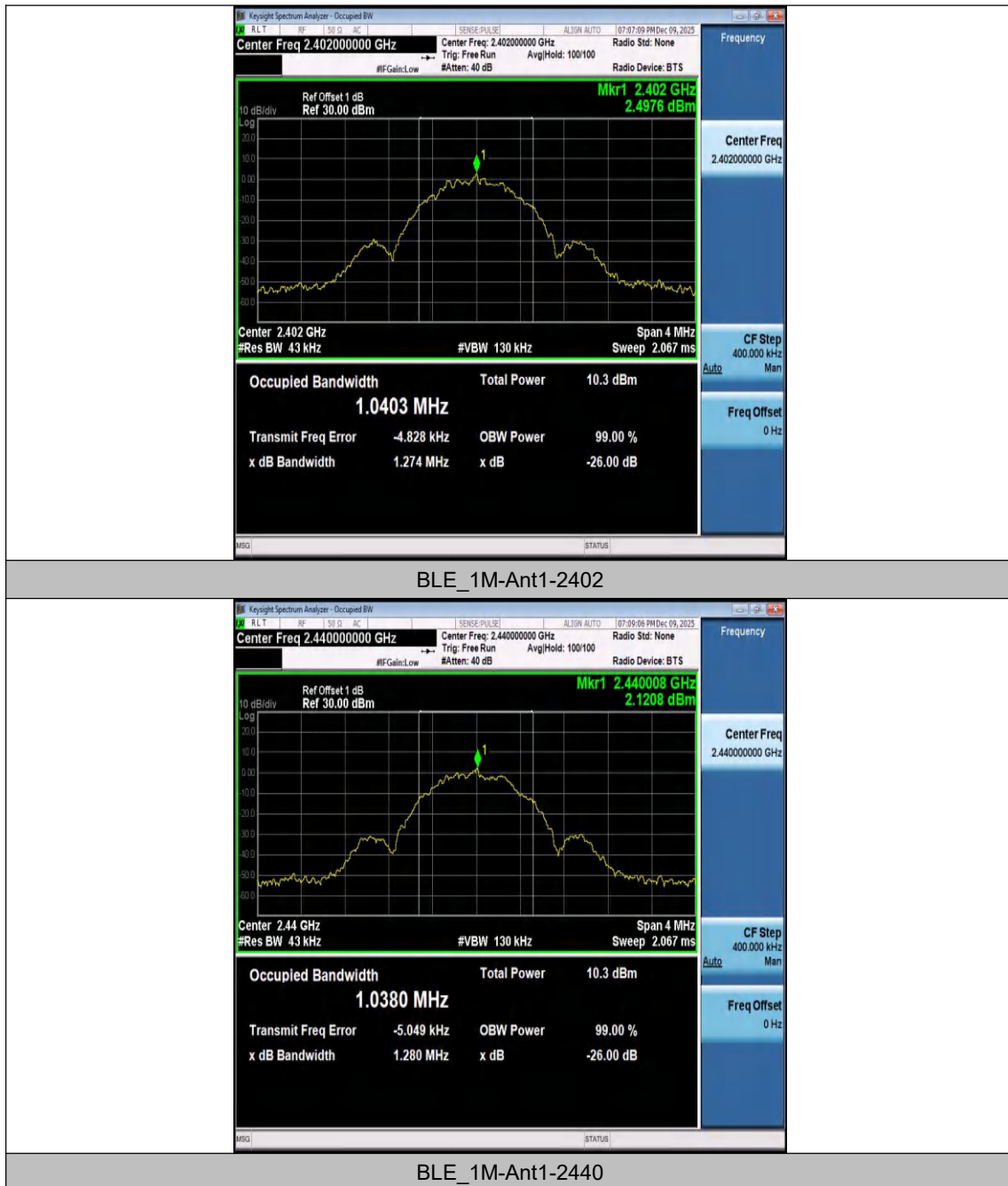


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0403	2401.4750	2402.5153	---	---
BLE_1M	Ant1	2440	1.0380	2439.4760	2440.5140	---	---
BLE_1M	Ant1	2480	1.0370	2479.4784	2480.5154	---	---
BLE_2M	Ant1	2402	2.0686	2400.9790	2403.0476	---	---
BLE_2M	Ant1	2440	2.0545	2438.9783	2441.0328	---	---
BLE_2M	Ant1	2480	2.0440	2478.9901	2481.0341	---	---

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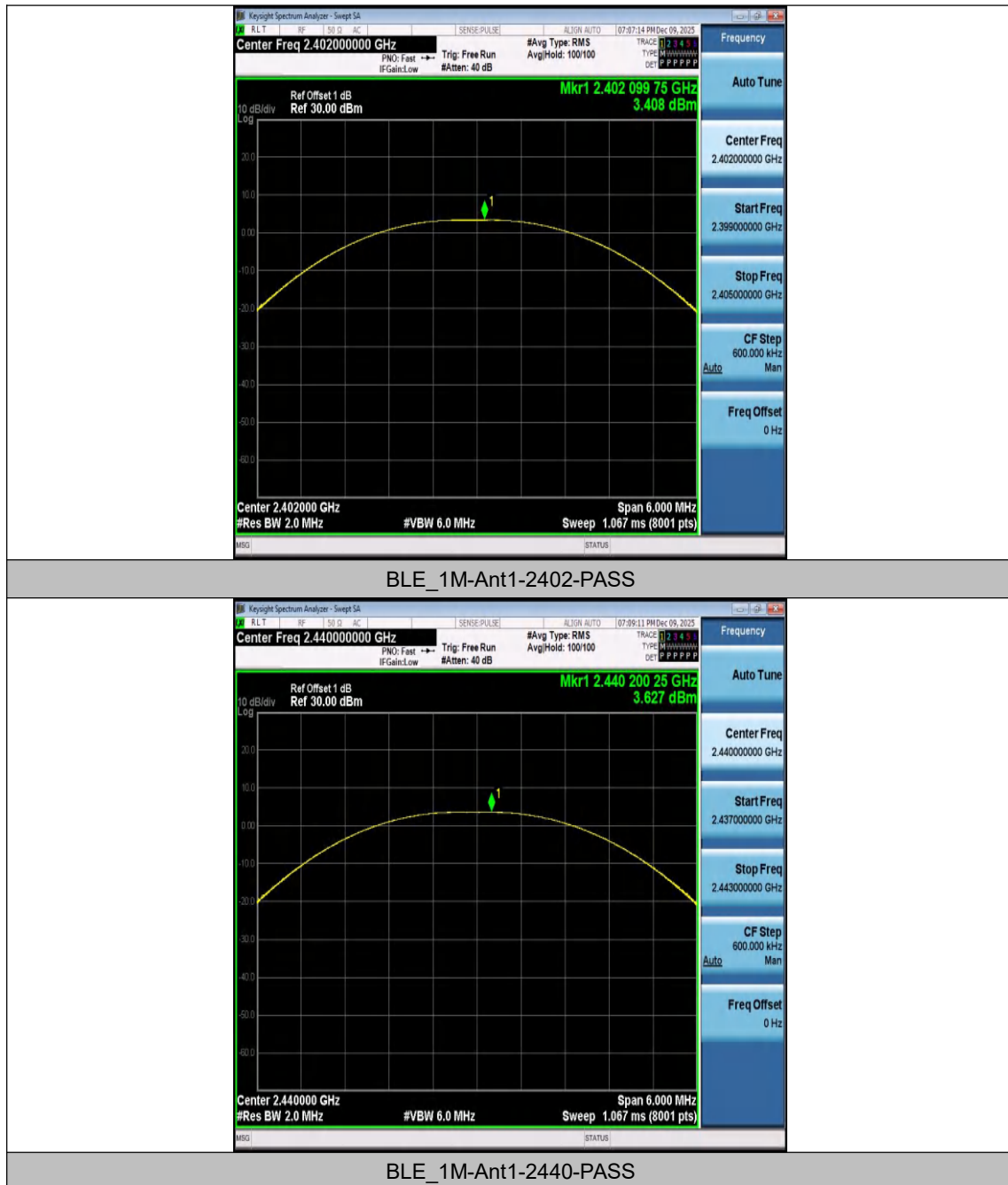
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.41	≤30	PASS
BLE_1M	Ant1	2440	3.63	≤30	PASS
BLE_1M	Ant1	2480	4.19	≤30	PASS
BLE_2M	Ant1	2402	3.42	≤30	PASS
BLE_2M	Ant1	2440	3.64	≤30	PASS
BLE_2M	Ant1	2480	4.18	≤30	PASS

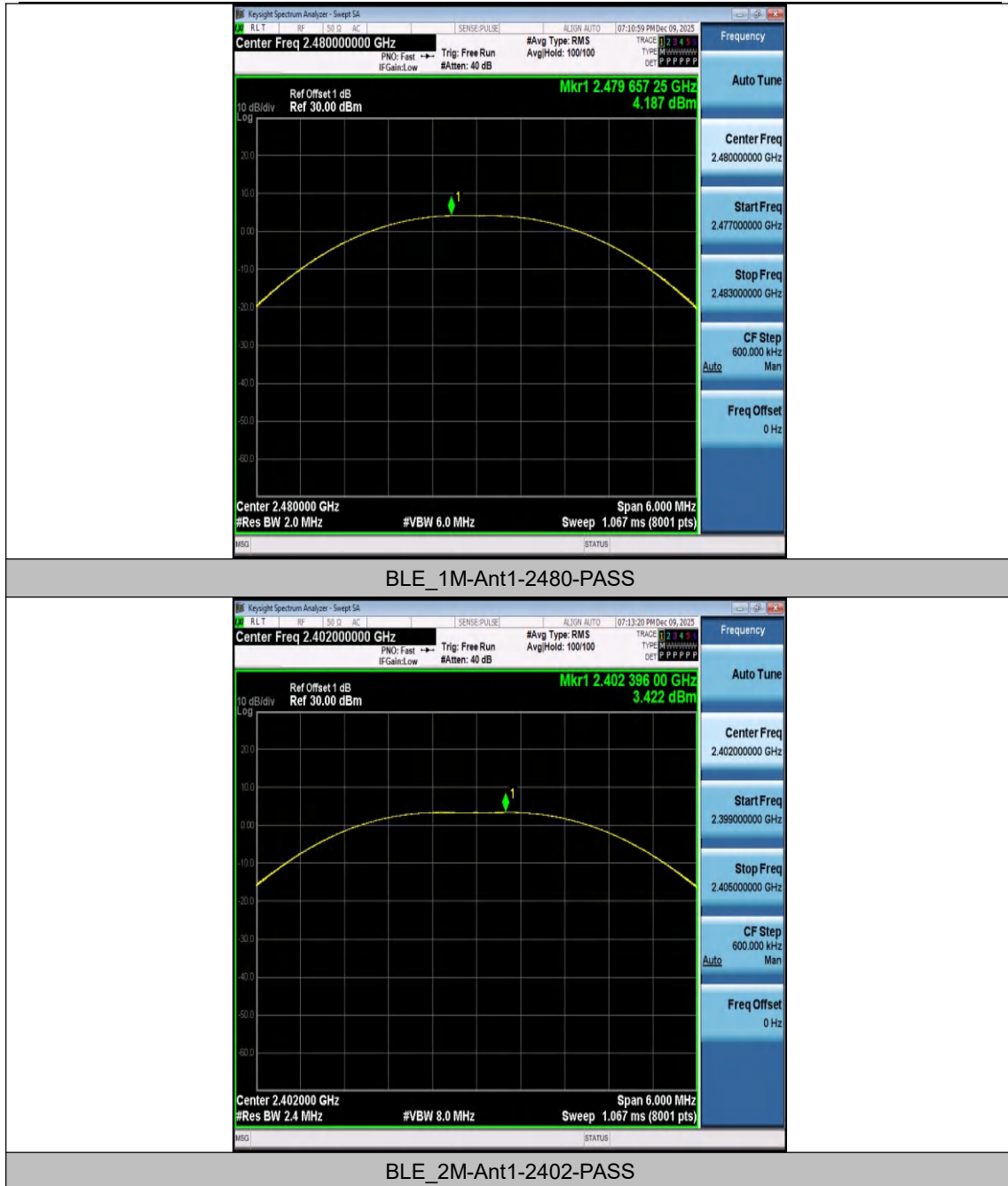
Test Graphs Peak



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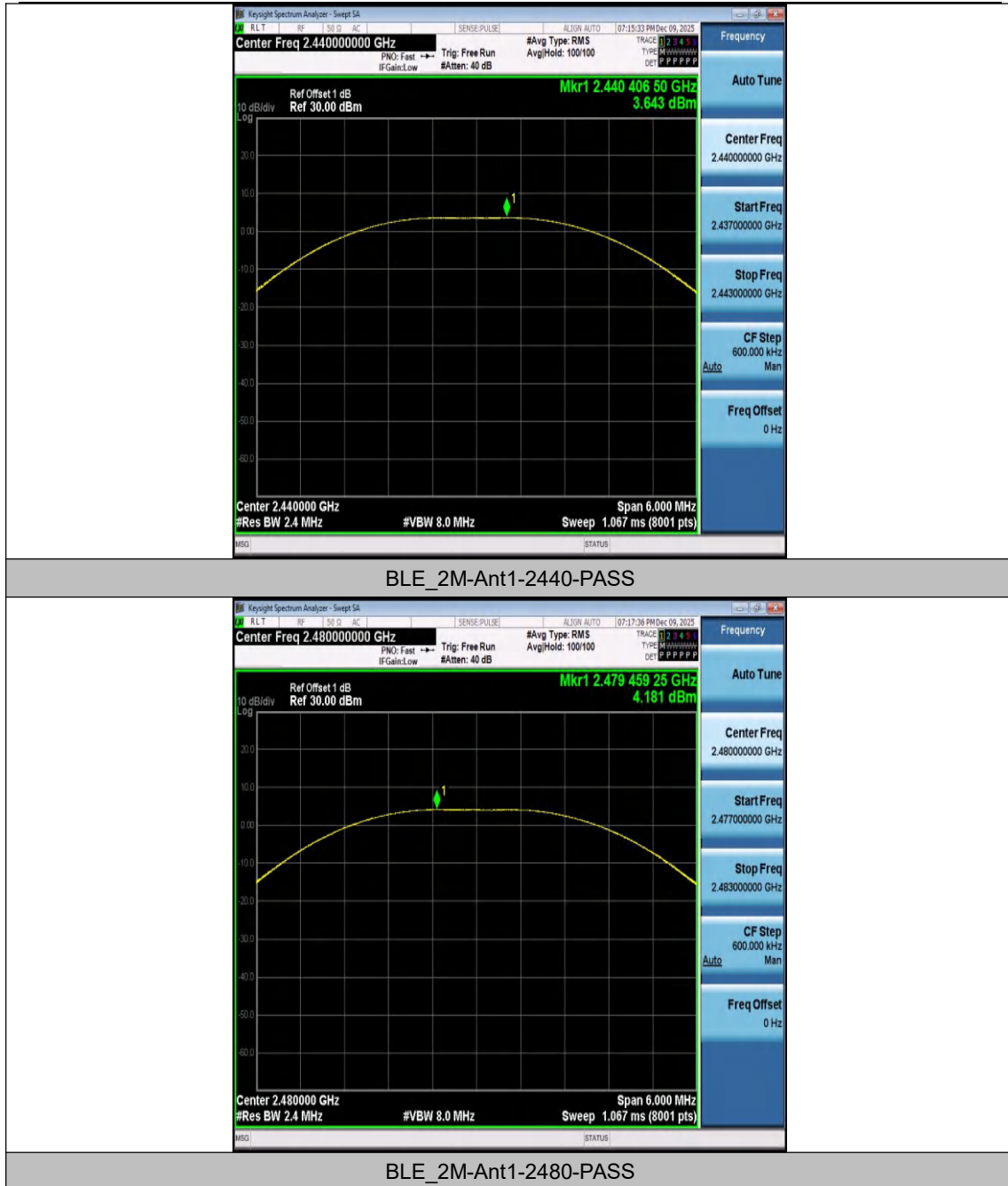
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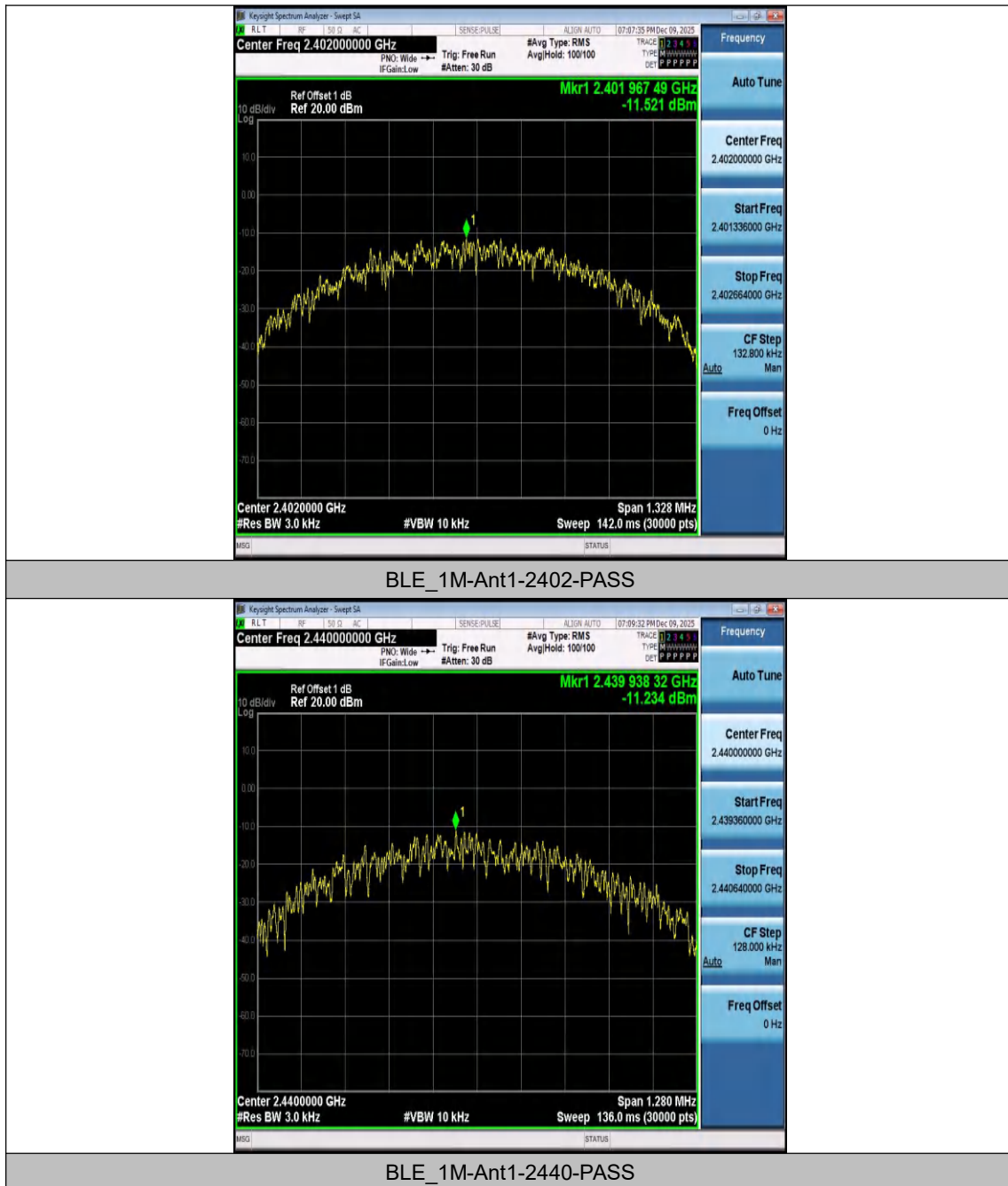
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.52	≤8.00	PASS
BLE_1M	Ant1	2440	-11.23	≤8.00	PASS
BLE_1M	Ant1	2480	-10.76	≤8.00	PASS
BLE_2M	Ant1	2402	-14.19	≤8.00	PASS
BLE_2M	Ant1	2440	-14.34	≤8.00	PASS
BLE_2M	Ant1	2480	-13.71	≤8.00	PASS

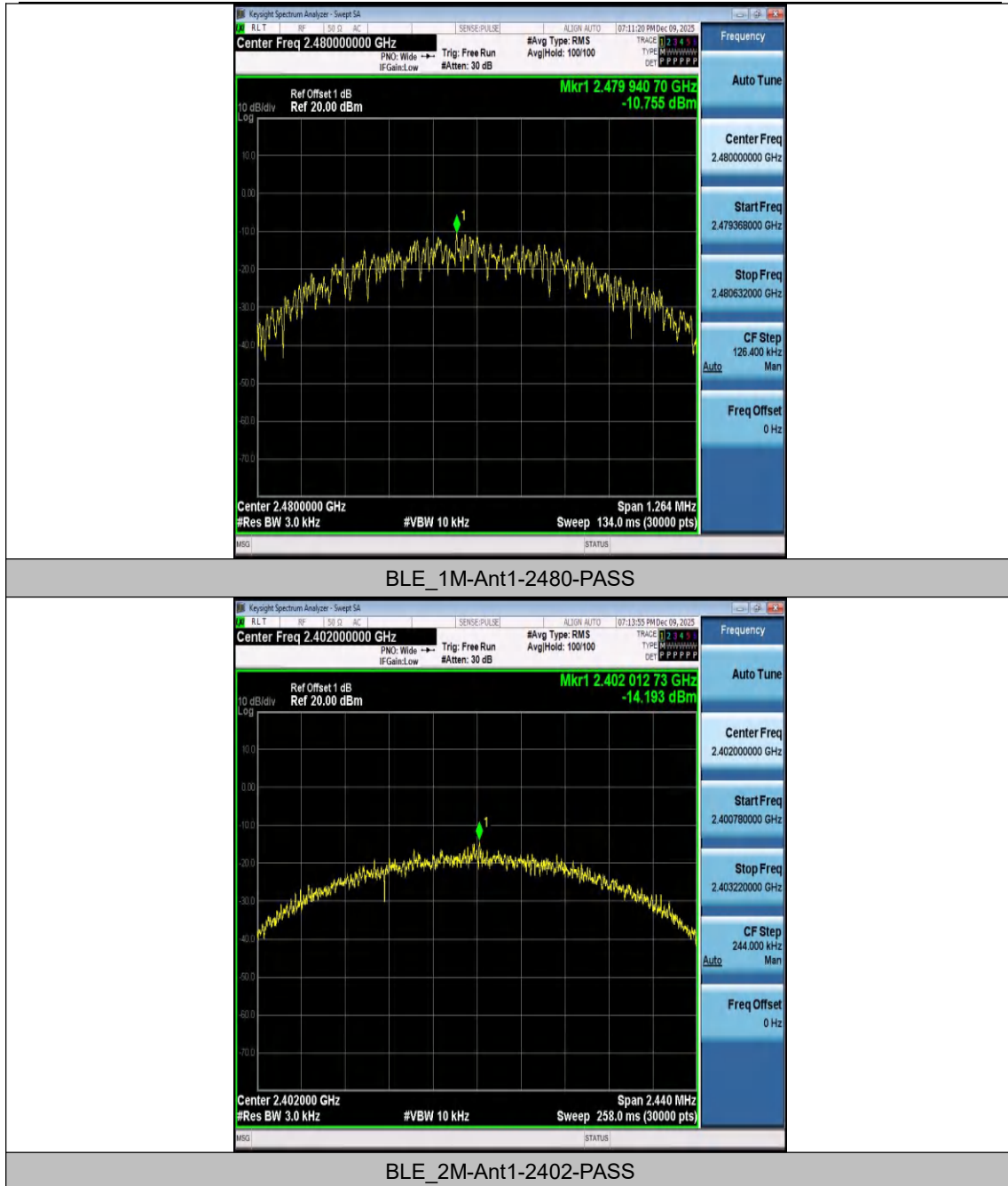
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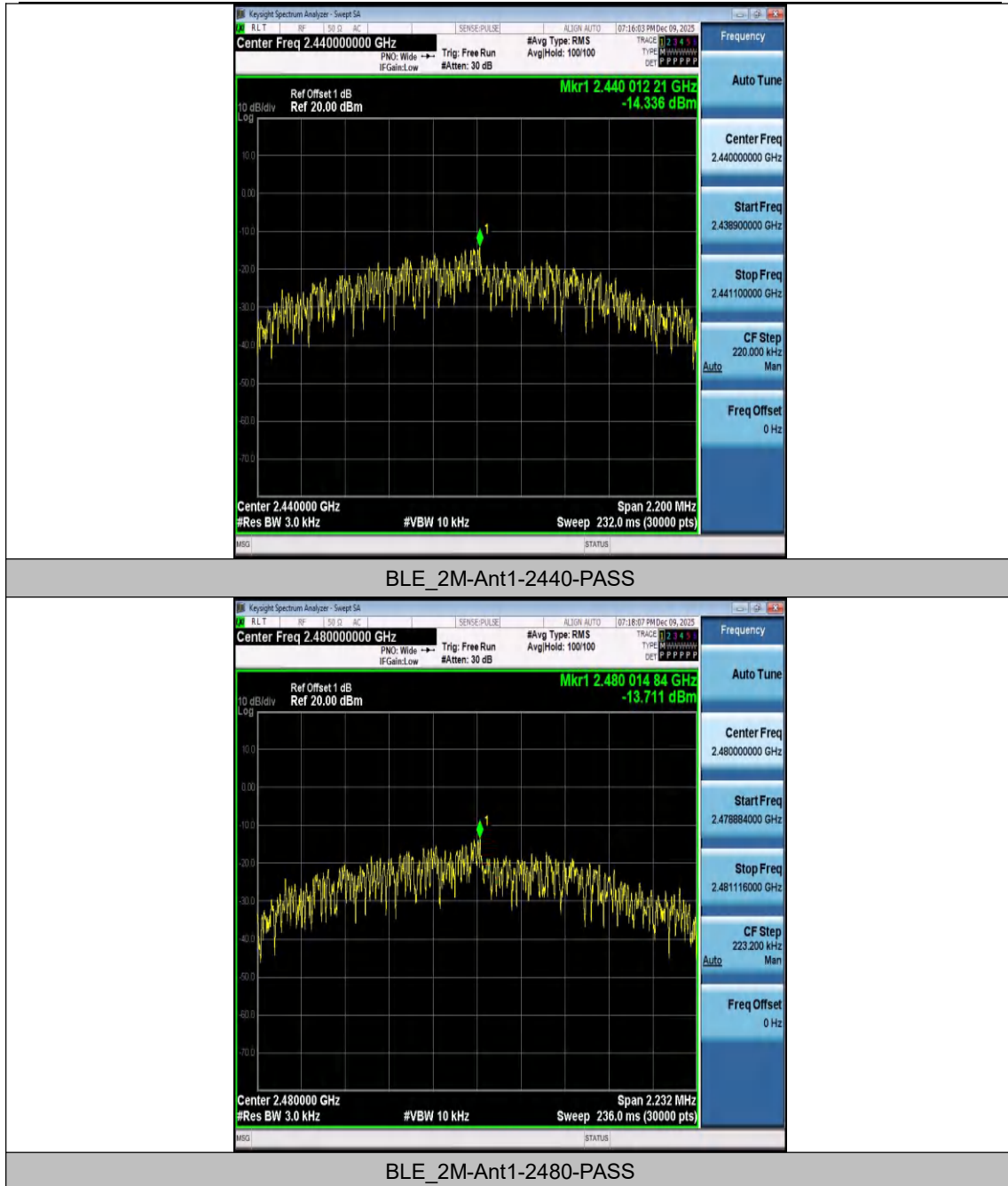
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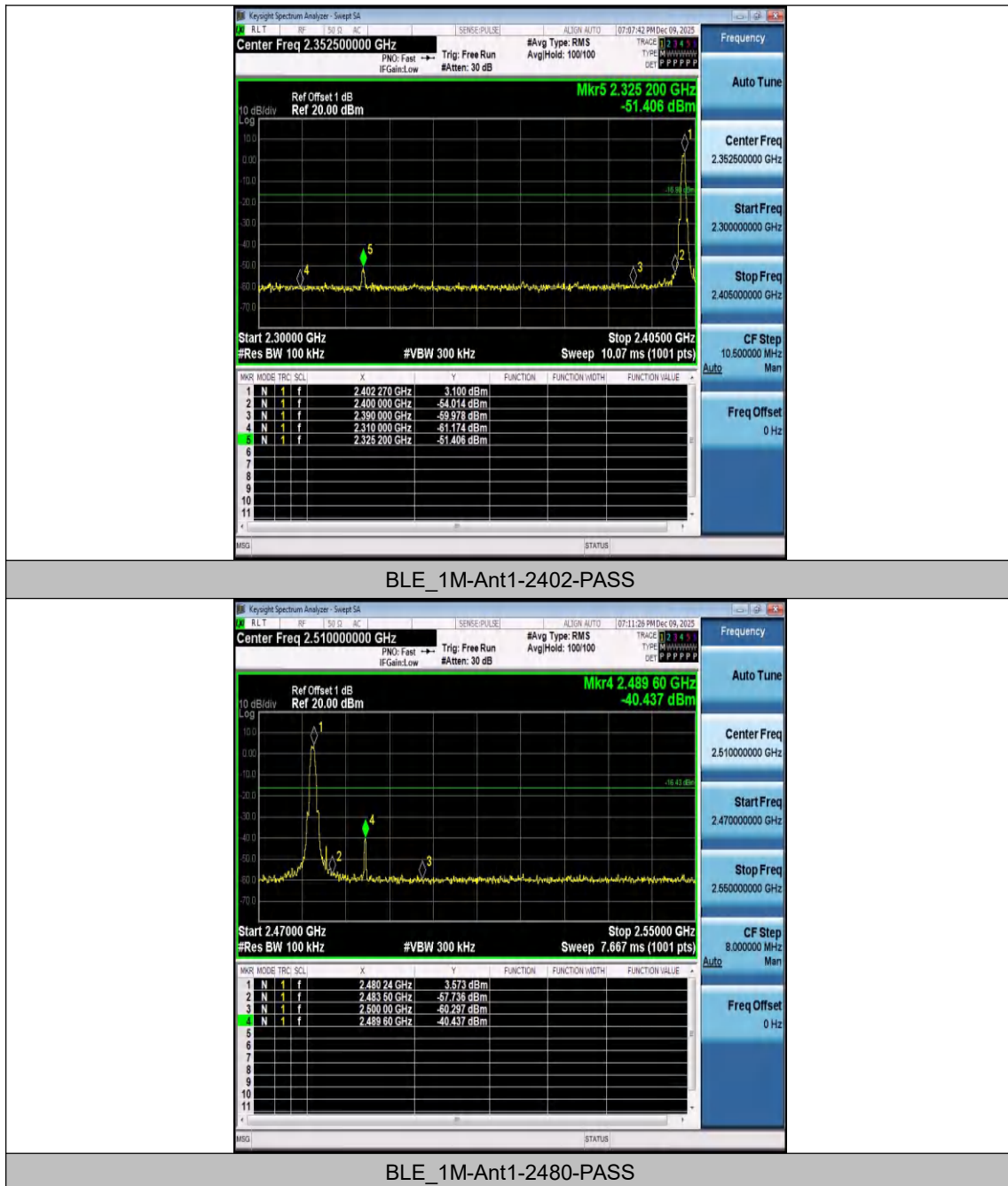
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.10	-51.41	≤-16.9	PASS
BLE_1M	Ant1	High	2480	3.57	-40.44	≤-16.43	PASS
BLE_2M	Ant1	Low	2402	2.51	-31.49	≤-17.49	PASS
BLE_2M	Ant1	High	2480	4.28	-41.91	≤-15.72	PASS

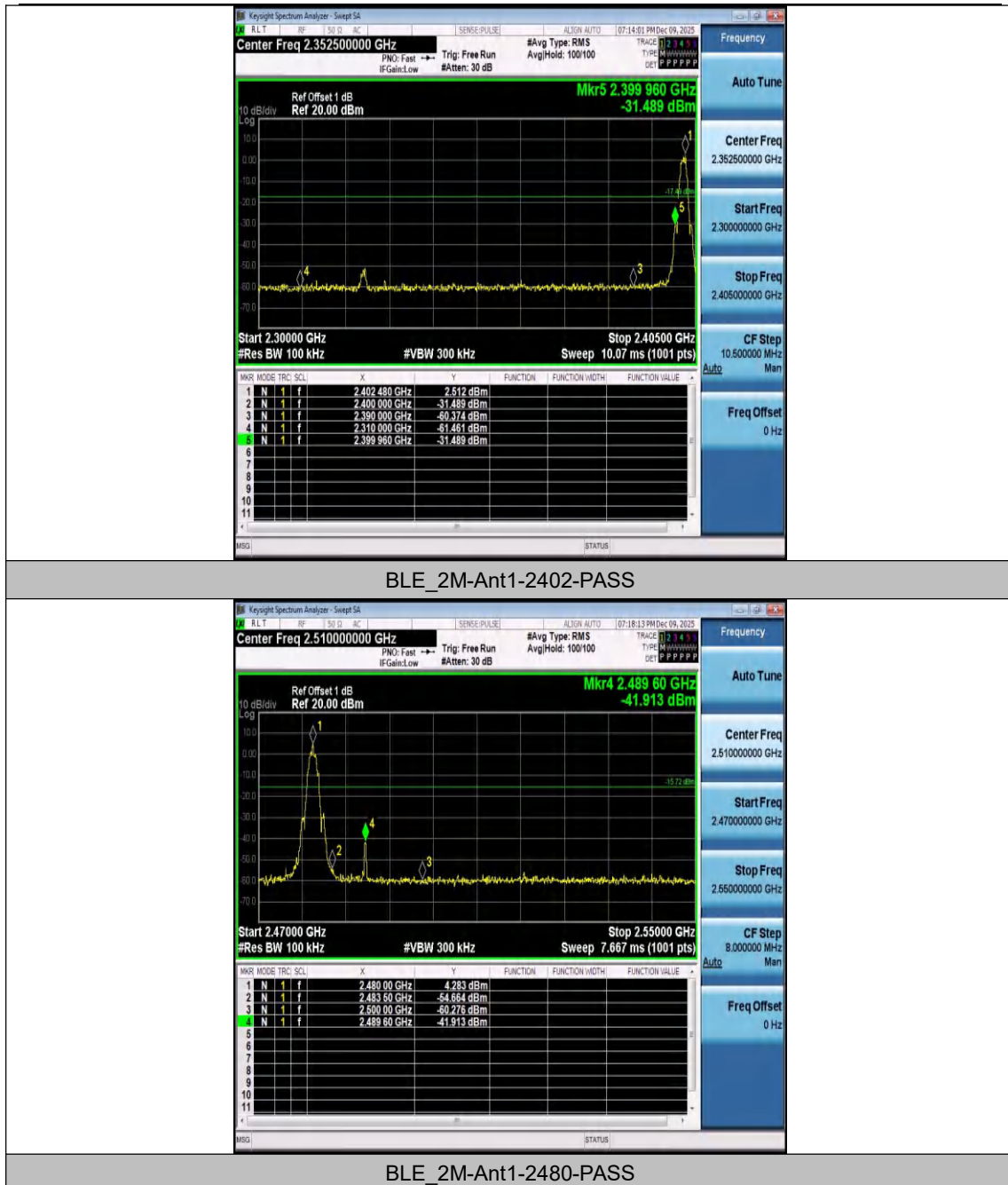
Test Graphs



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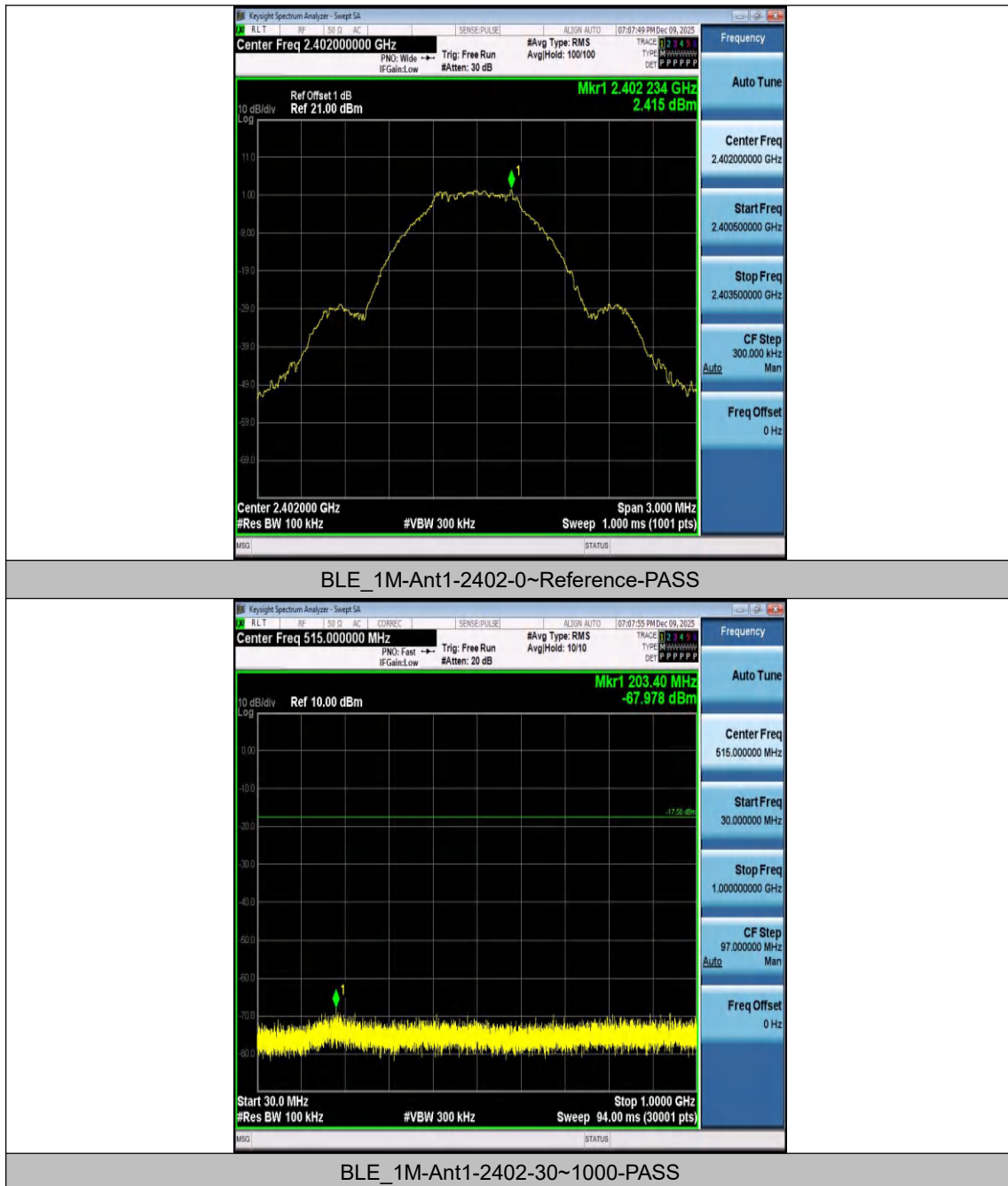
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.42	2.42	---	PASS
BLE_1M	Ant1	2402	30~1000	2.42	-67.98	≤-17.58	PASS
BLE_1M	Ant1	2402	1000~26500	2.42	-53.49	≤-17.58	PASS
BLE_1M	Ant1	2440	0~Reference	3.46	3.46	---	PASS
BLE_1M	Ant1	2440	30~1000	3.46	-68.77	≤-16.54	PASS
BLE_1M	Ant1	2440	1000~26500	3.46	-53.9	≤-16.54	PASS
BLE_1M	Ant1	2480	0~Reference	4.09	4.09	---	PASS
BLE_1M	Ant1	2480	30~1000	4.09	-69	≤-15.91	PASS
BLE_1M	Ant1	2480	1000~26500	4.09	-52.86	≤-15.91	PASS
BLE_2M	Ant1	2402	0~Reference	2.30	2.30	---	PASS
BLE_2M	Ant1	2402	30~1000	2.30	-68.68	≤-17.7	PASS
BLE_2M	Ant1	2402	1000~26500	2.30	-53.61	≤-17.7	PASS
BLE_2M	Ant1	2440	0~Reference	3.49	3.49	---	PASS
BLE_2M	Ant1	2440	30~1000	3.49	-68.16	≤-16.51	PASS
BLE_2M	Ant1	2440	1000~26500	3.49	-52.2	≤-16.51	PASS
BLE_2M	Ant1	2480	0~Reference	4.08	4.08	---	PASS
BLE_2M	Ant1	2480	30~1000	4.08	-67.46	≤-15.92	PASS
BLE_2M	Ant1	2480	1000~26500	4.08	-53.82	≤-15.92	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.

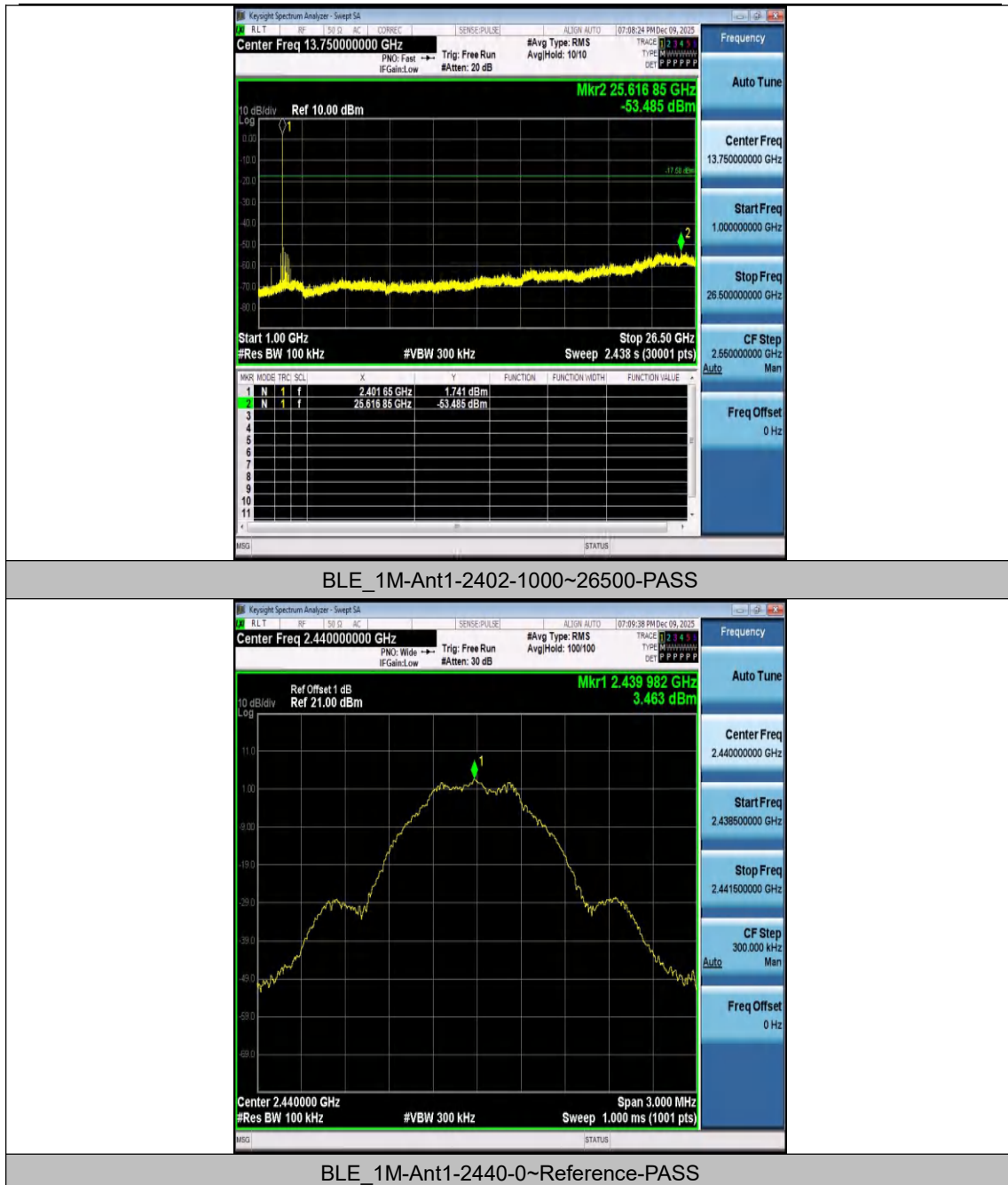
Test Graphs



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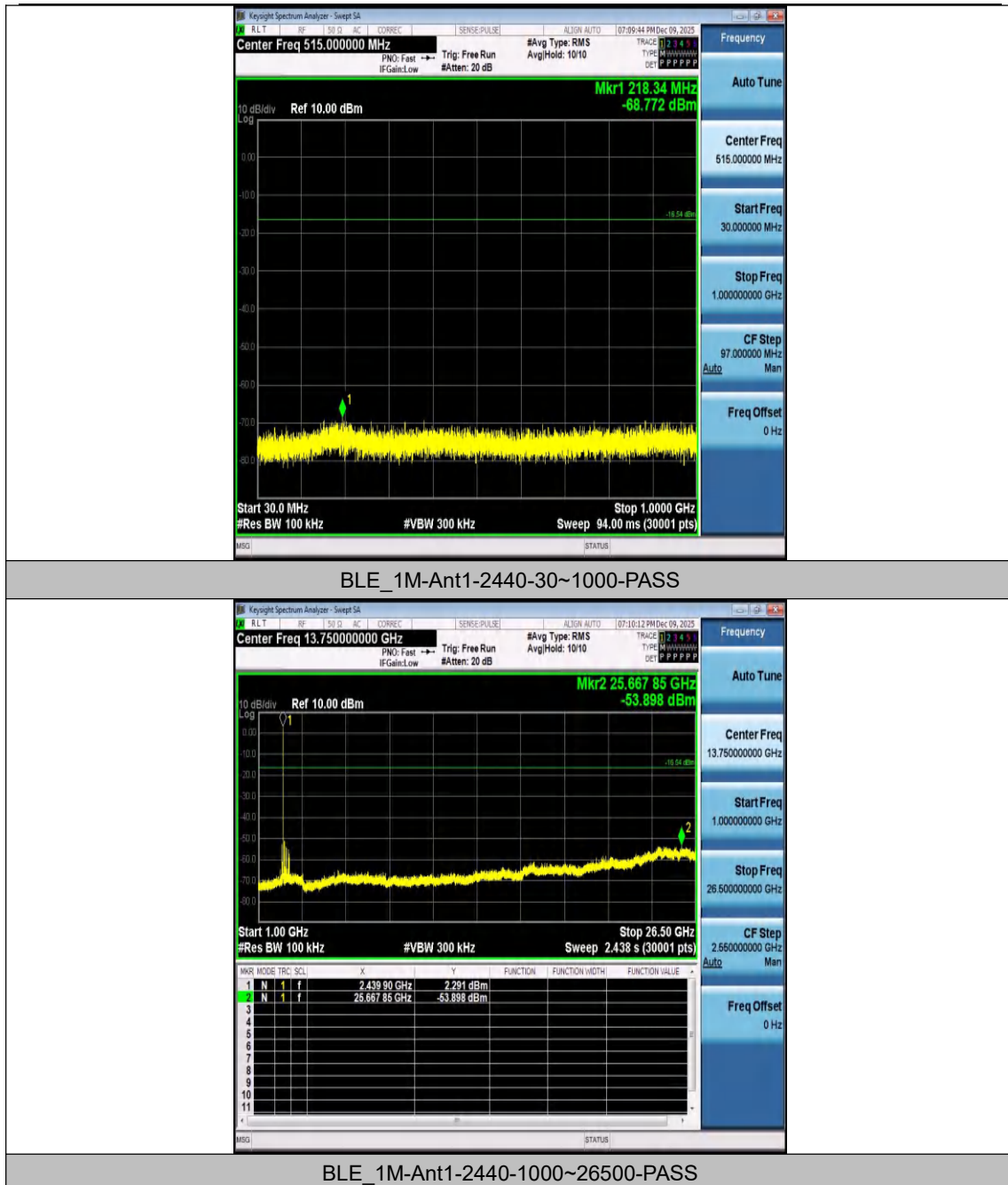
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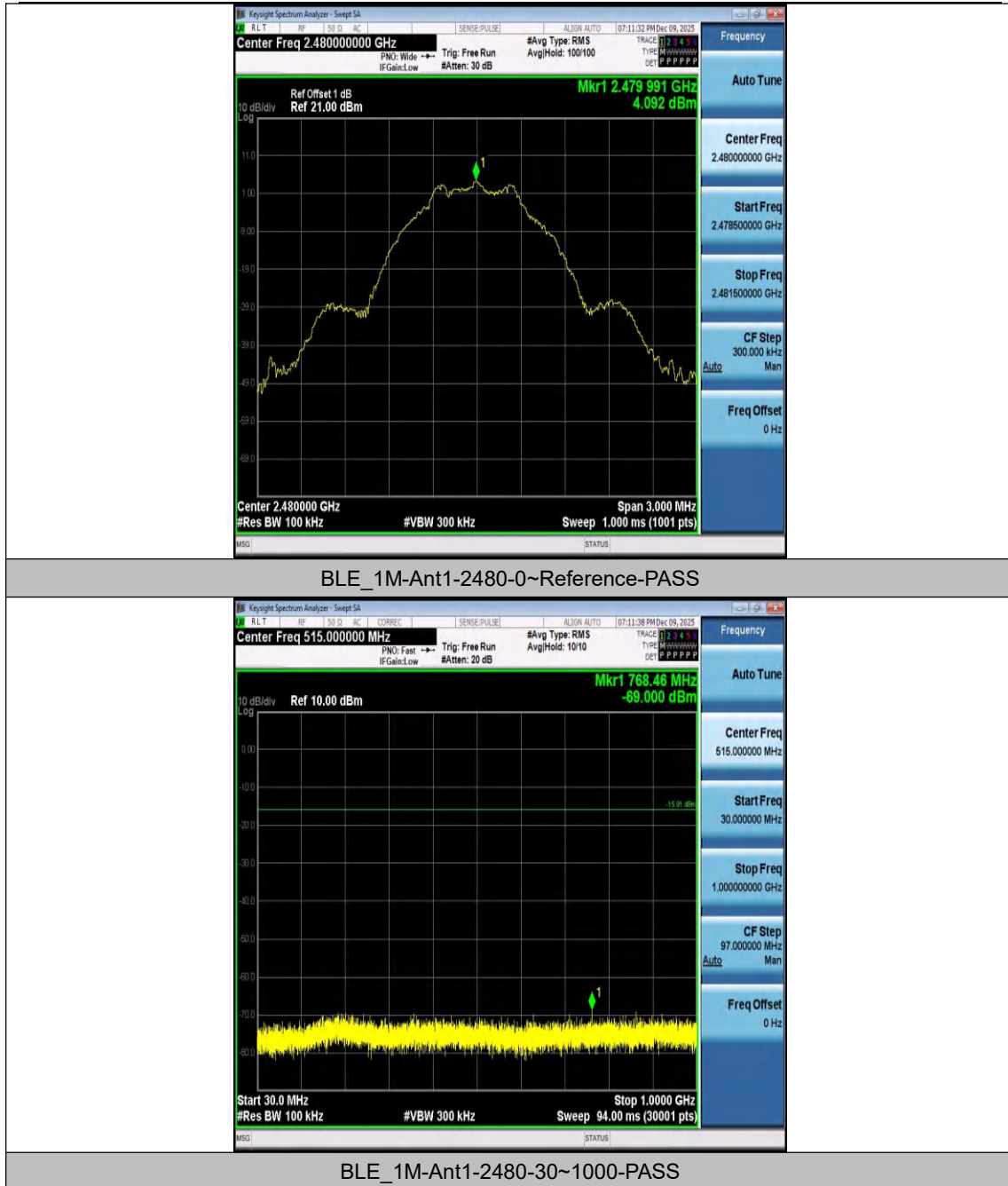


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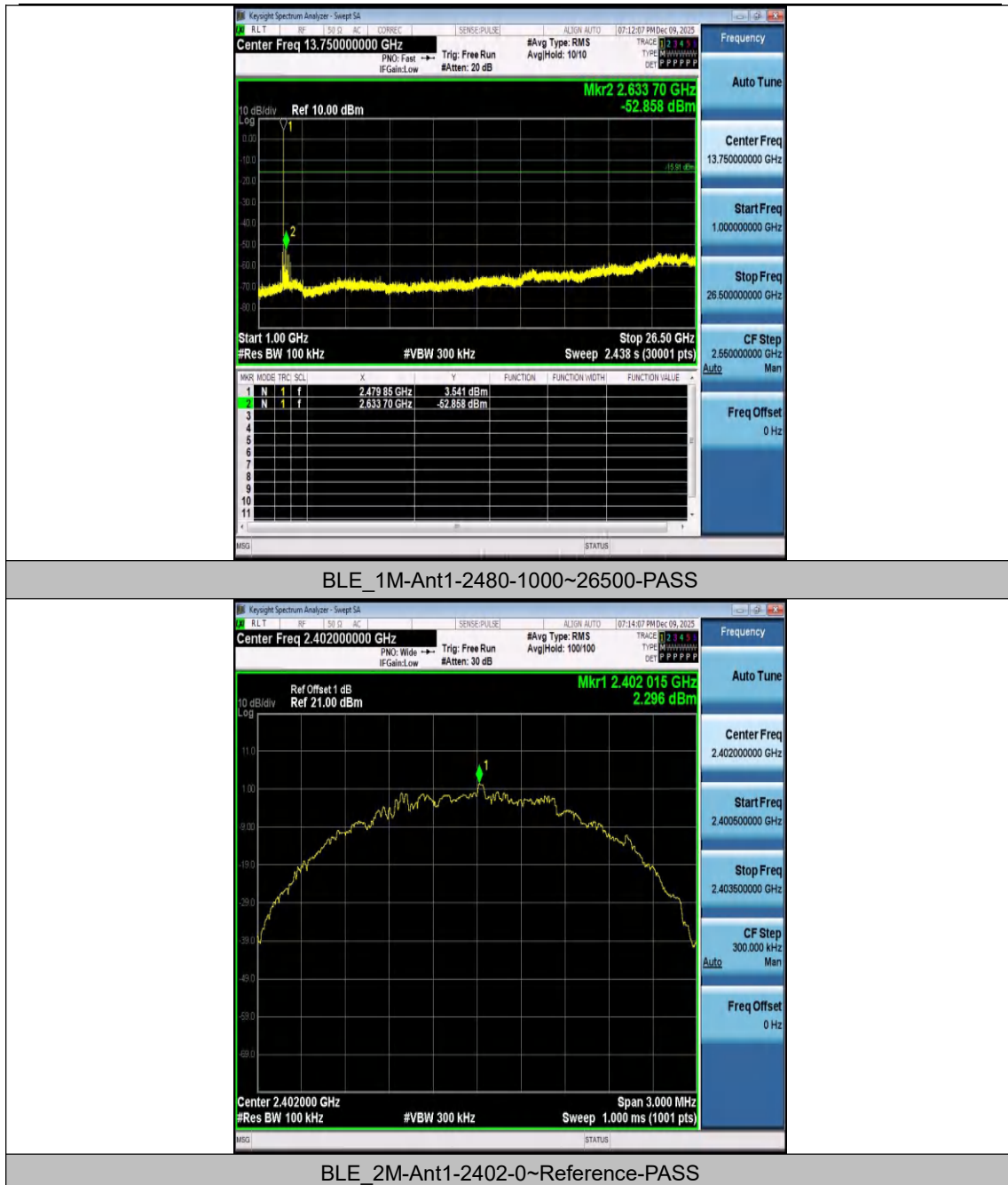




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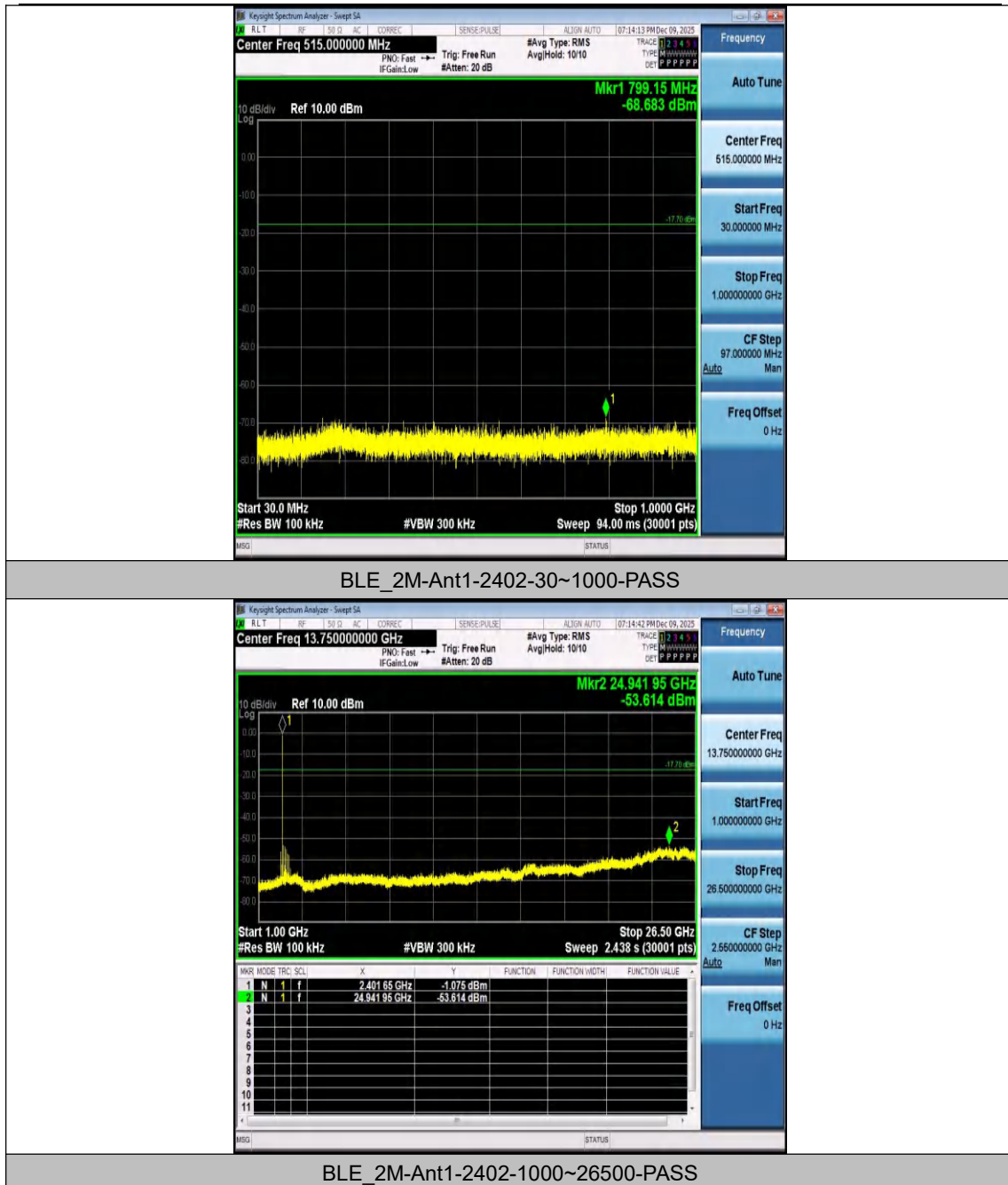
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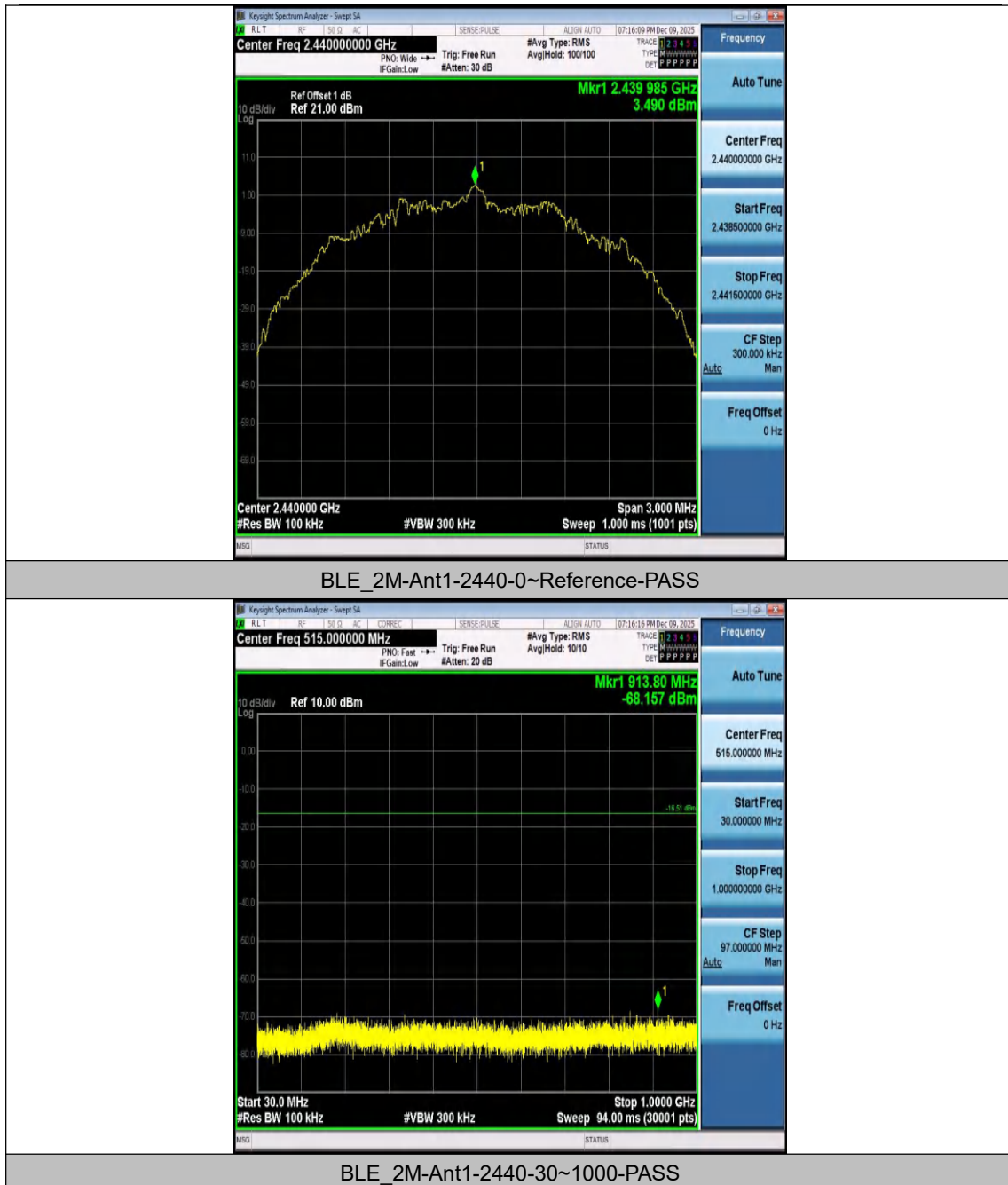
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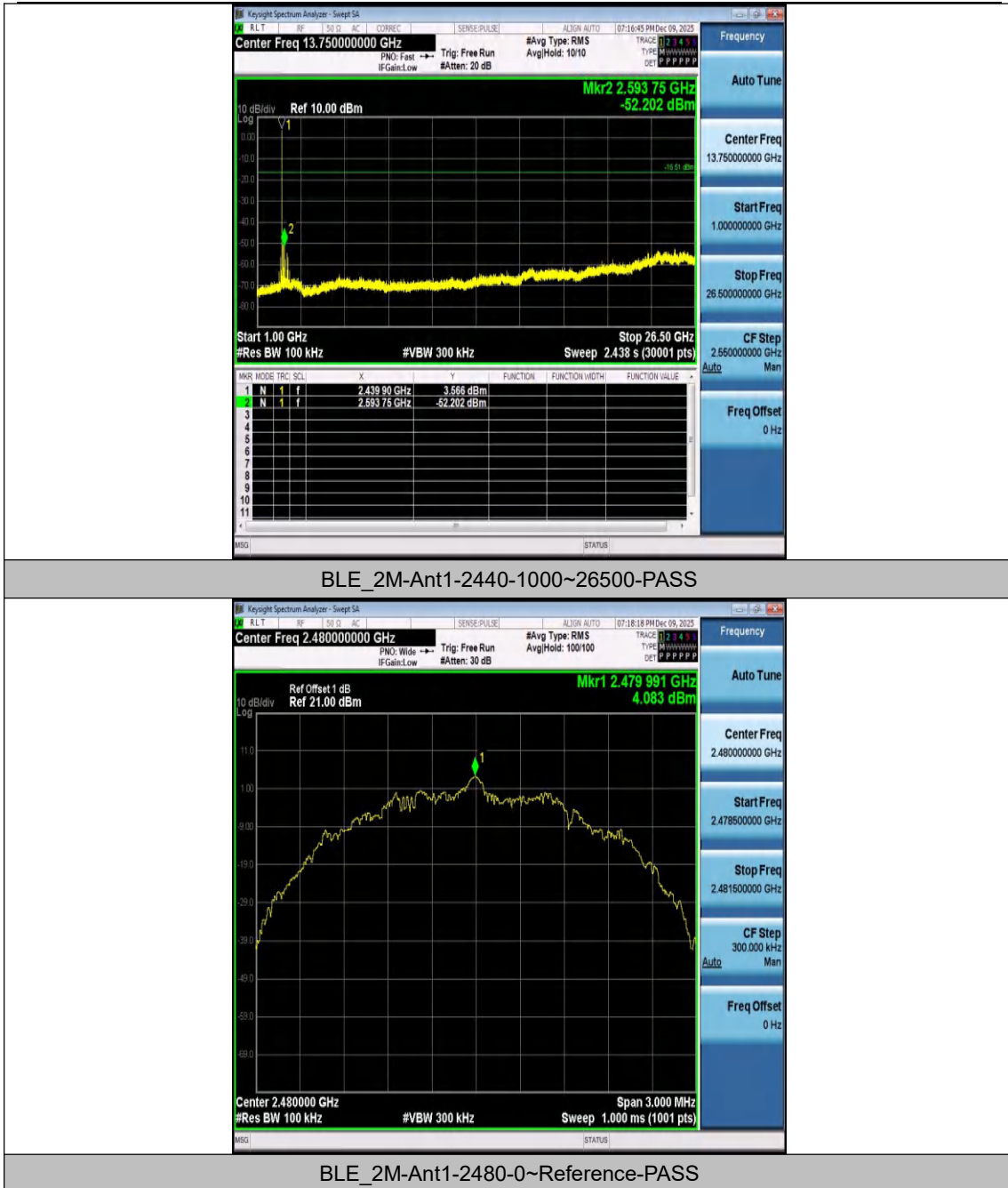
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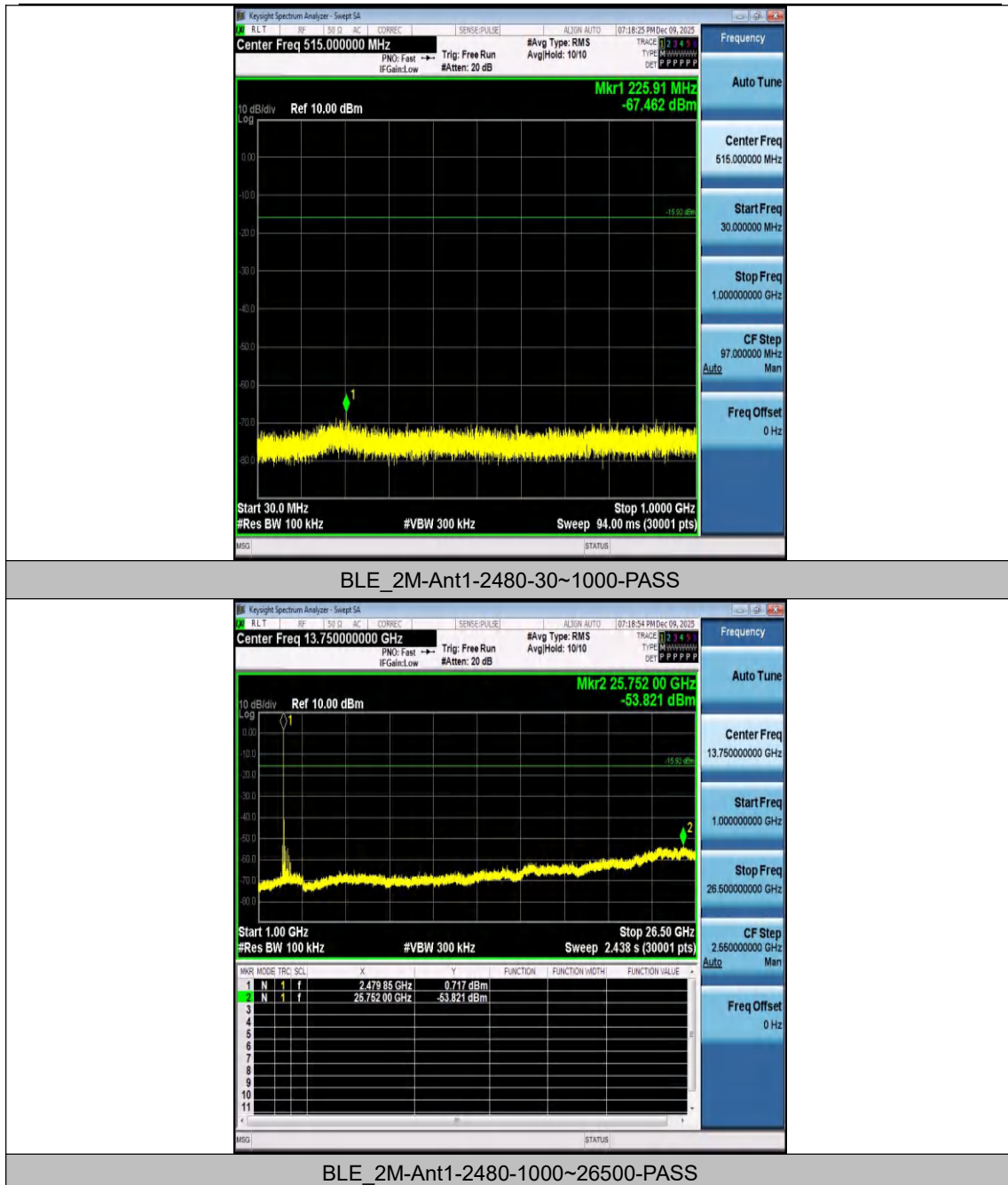
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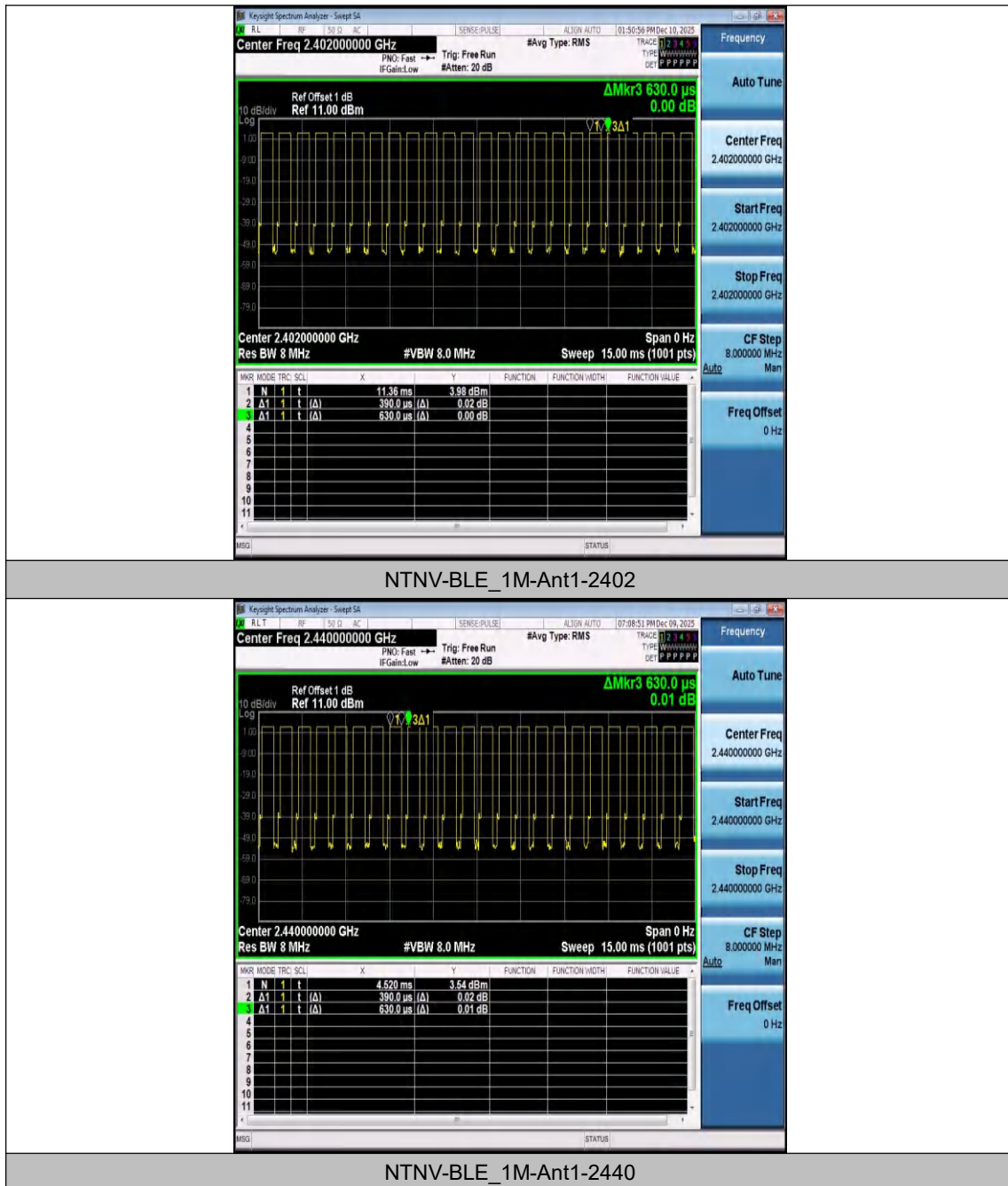


Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.19	0.61	31.15	5.07

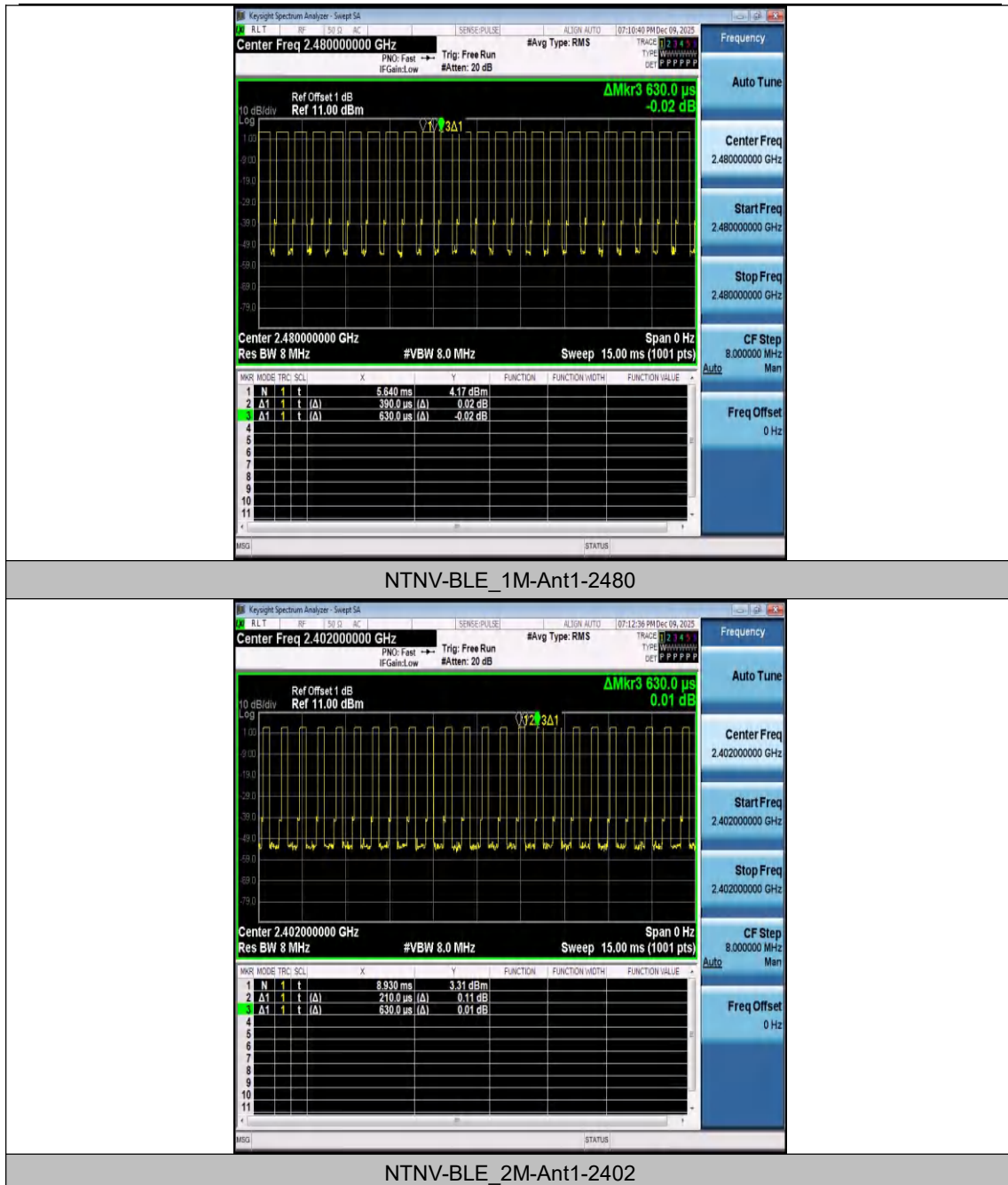
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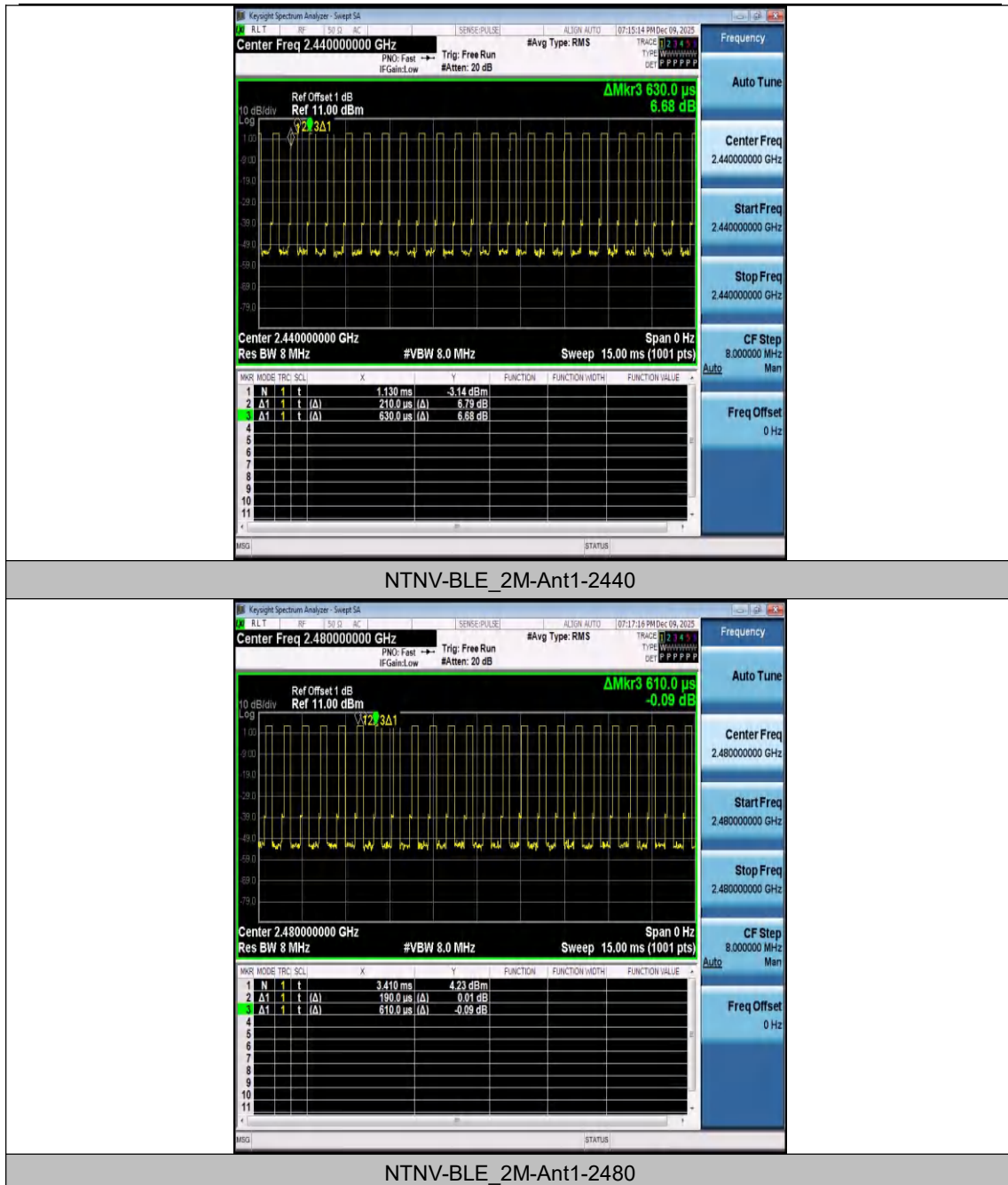


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