

Appendix Test Data

Report No.:	1819C50089812502	Test Sample No.:	1-2-2
Start Test Date:	2025-08-18	Finish Test Date:	2025-08-18
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	26.3℃	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	0.700	2401.668	2402.368	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.676	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.696	2479.668	2480.364	0.5	PASS
BLE_2M	Ant1	2404	1.176	2403.424	2404.600	0.5	PASS
BLE_2M	Ant1	2440	1.360	2439.340	2440.700	0.5	PASS
BLE_2M	Ant1	2478	1.064	2477.520	2478.584	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	1.0286	2401.5091	2402.5377	---	---
BLE_1M	Ant1	2440	1.0247	2439.5044	2440.5291	---	---
BLE_1M	Ant1	2480	1.0271	2479.5026	2480.5297	---	---
BLE_2M	Ant1	2404	2.0937	2402.9854	2405.0791	---	---
BLE_2M	Ant1	2440	2.0685	2438.9968	2441.0653	---	---
BLE_2M	Ant1	2478	2.0712	2476.9928	2479.0640	---	---

Test Graphs



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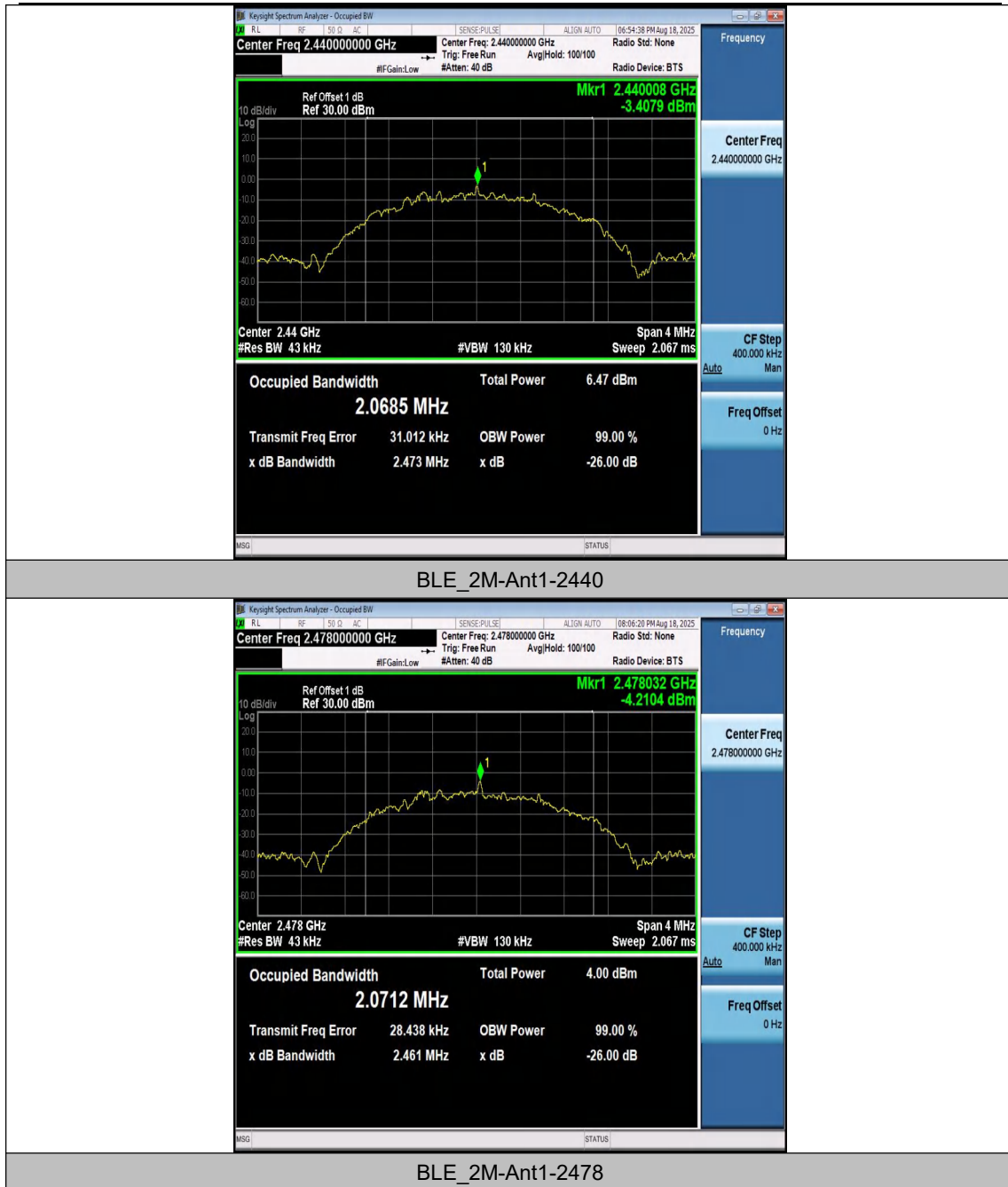
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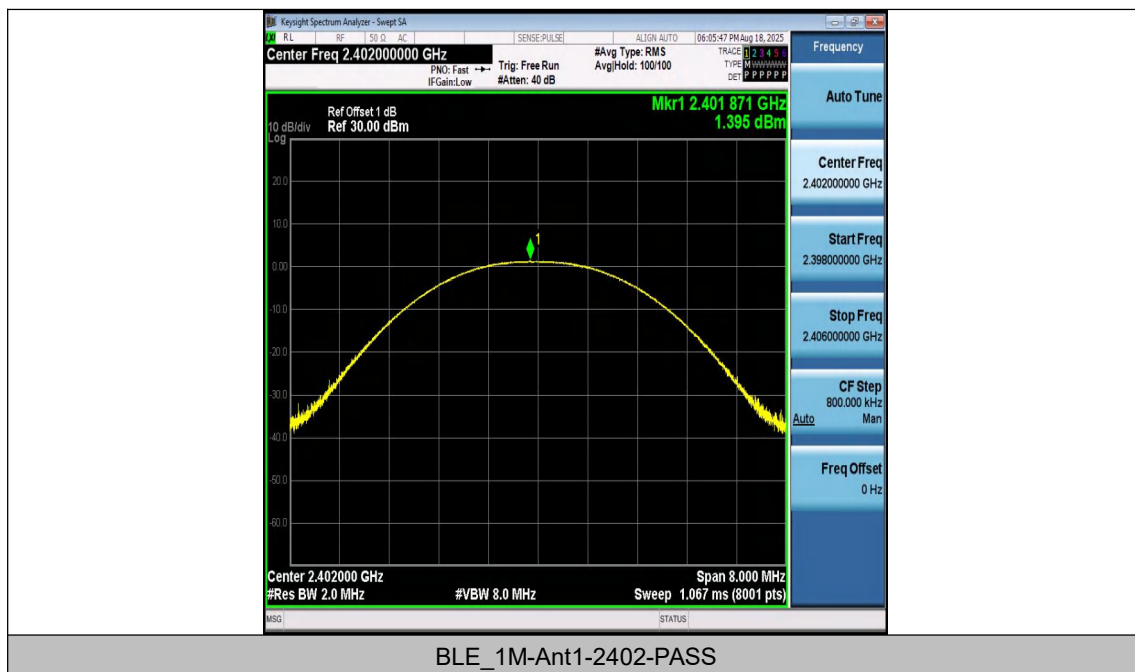
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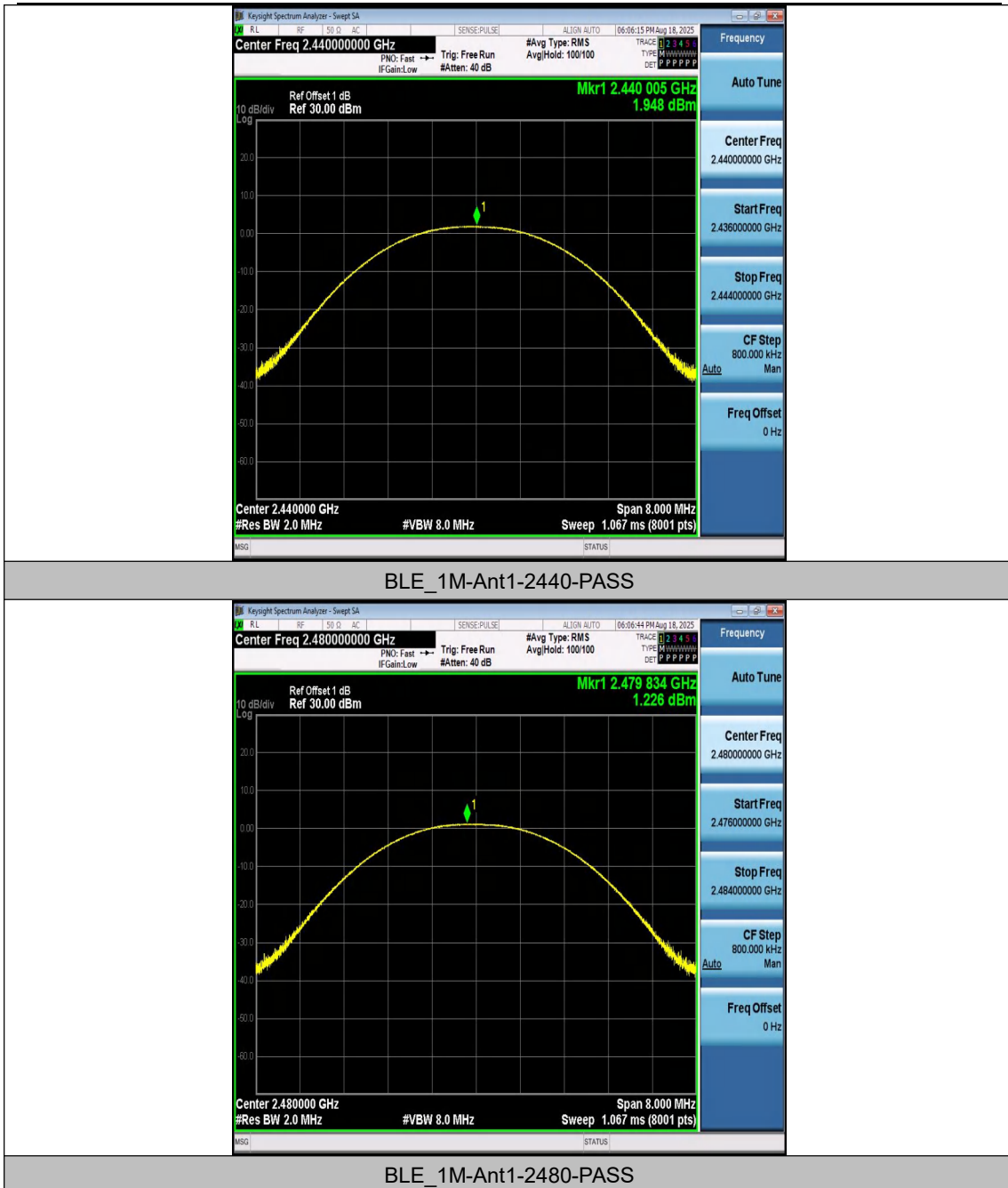
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.40	≤30	PASS
BLE_1M	Ant1	2440	1.95	≤30	PASS
BLE_1M	Ant1	2480	1.23	≤30	PASS
BLE_2M	Ant1	2404	1.38	≤30	PASS
BLE_2M	Ant1	2440	1.49	≤30	PASS
BLE_2M	Ant1	2478	1.45	≤30	PASS

Test Graphs Peak

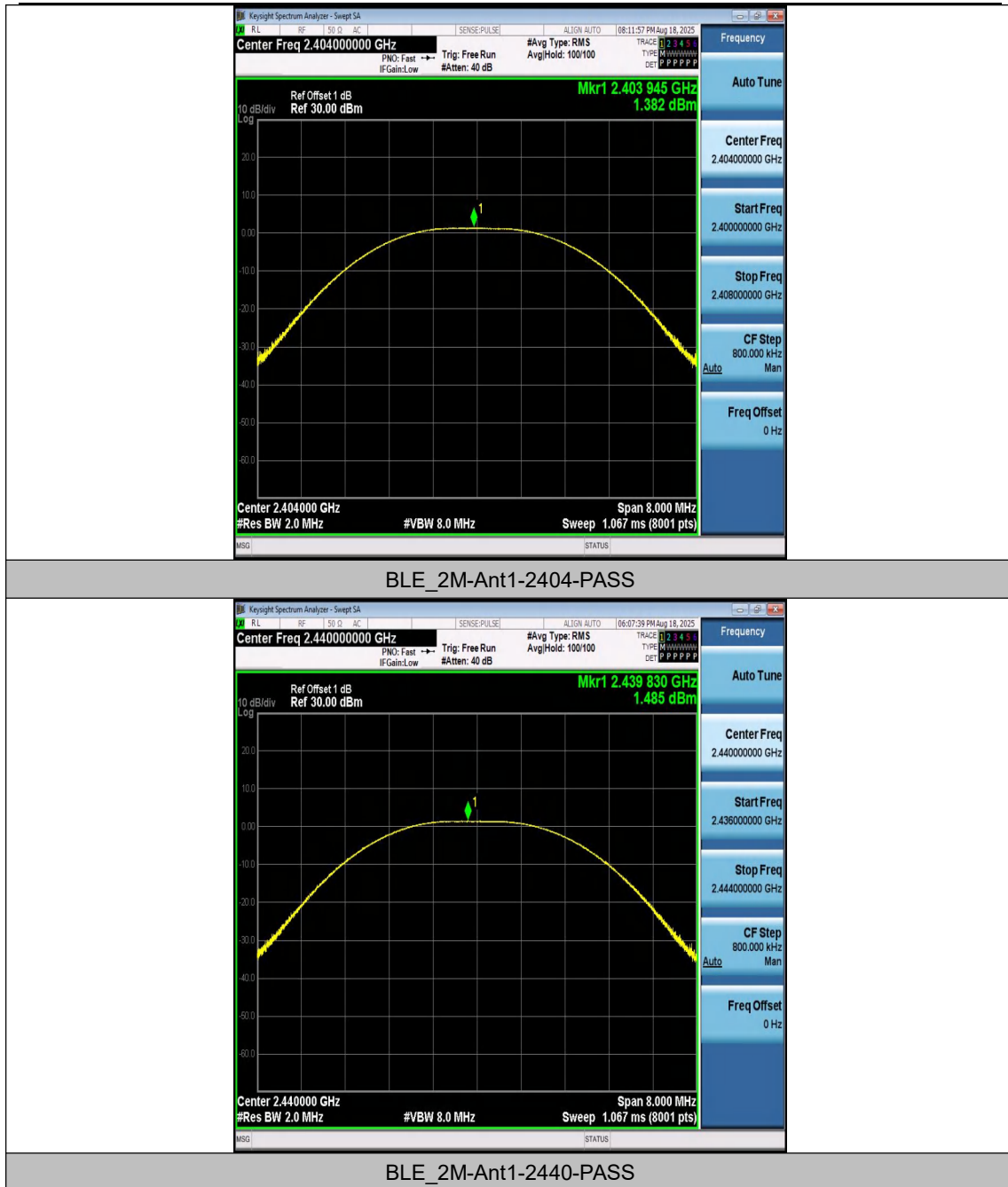




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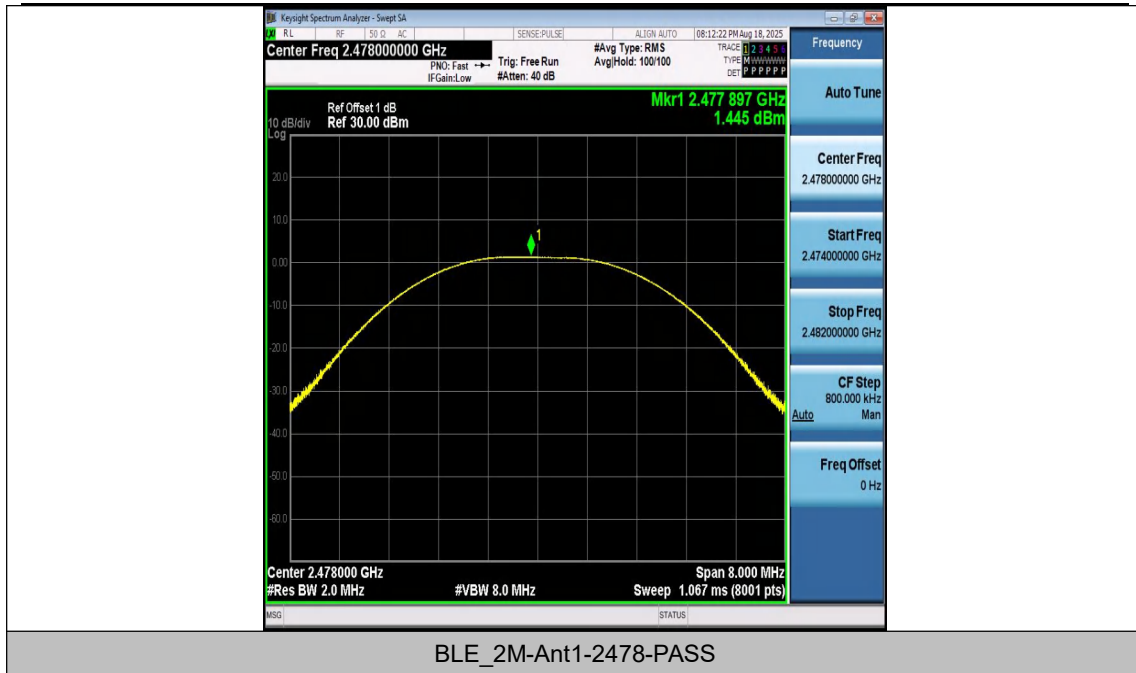
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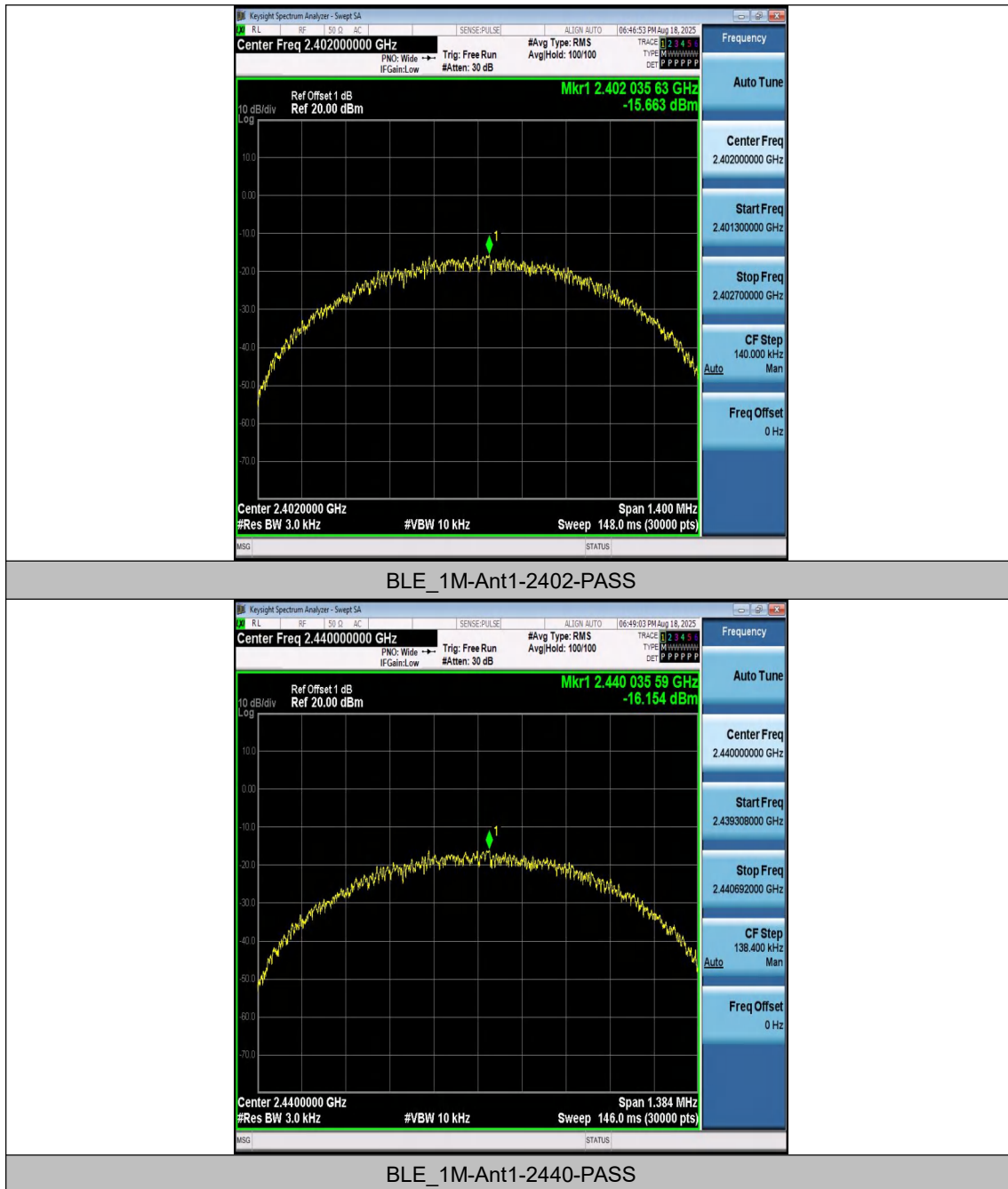
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.66	≤8.00	PASS
BLE_1M	Ant1	2440	-16.15	≤8.00	PASS
BLE_1M	Ant1	2480	-16.79	≤8.00	PASS
BLE_2M	Ant1	2404	-18.41	≤8.00	PASS
BLE_2M	Ant1	2440	-17.96	≤8.00	PASS
BLE_2M	Ant1	2478	-20.46	≤8.00	PASS

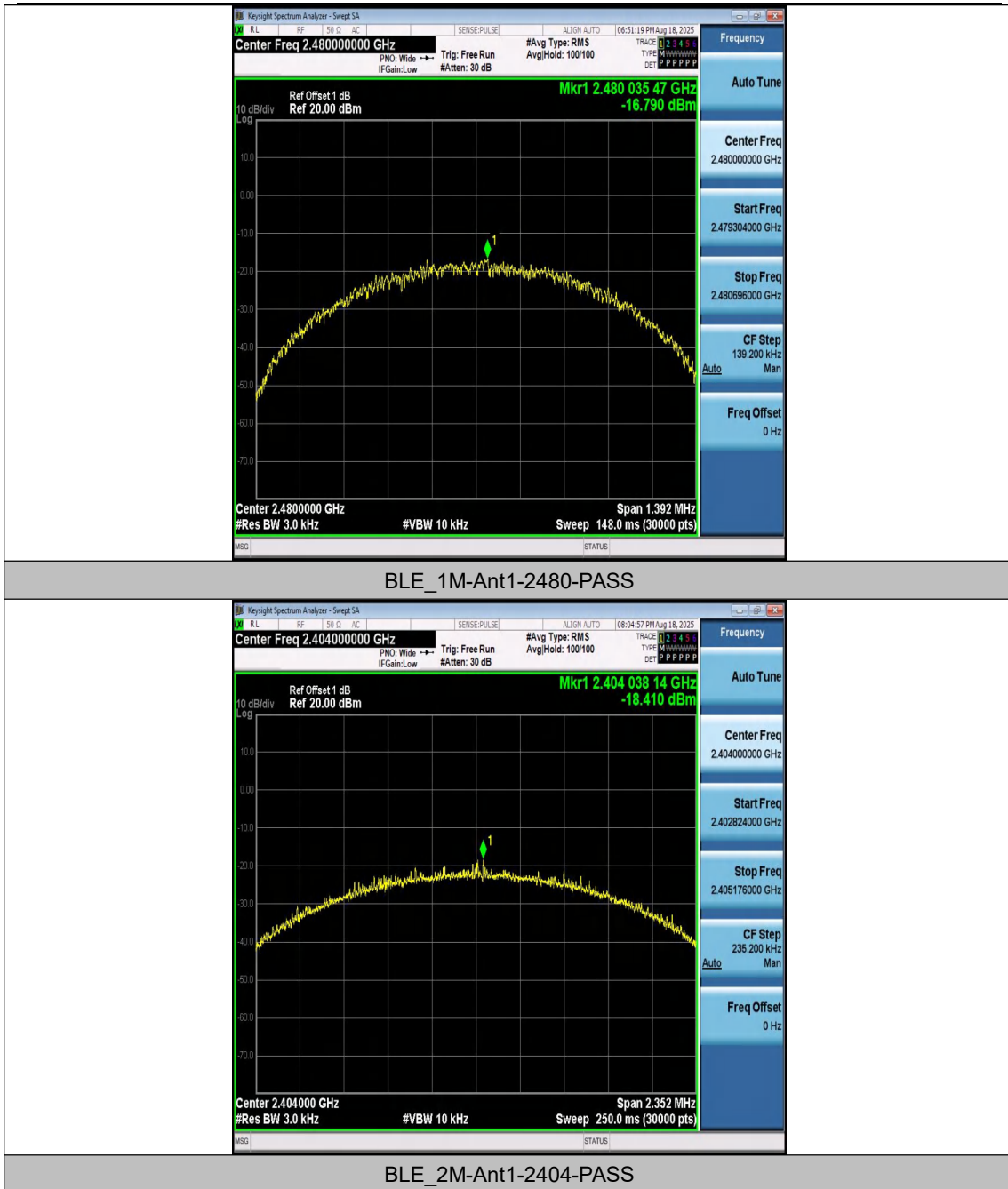
Test Graphs



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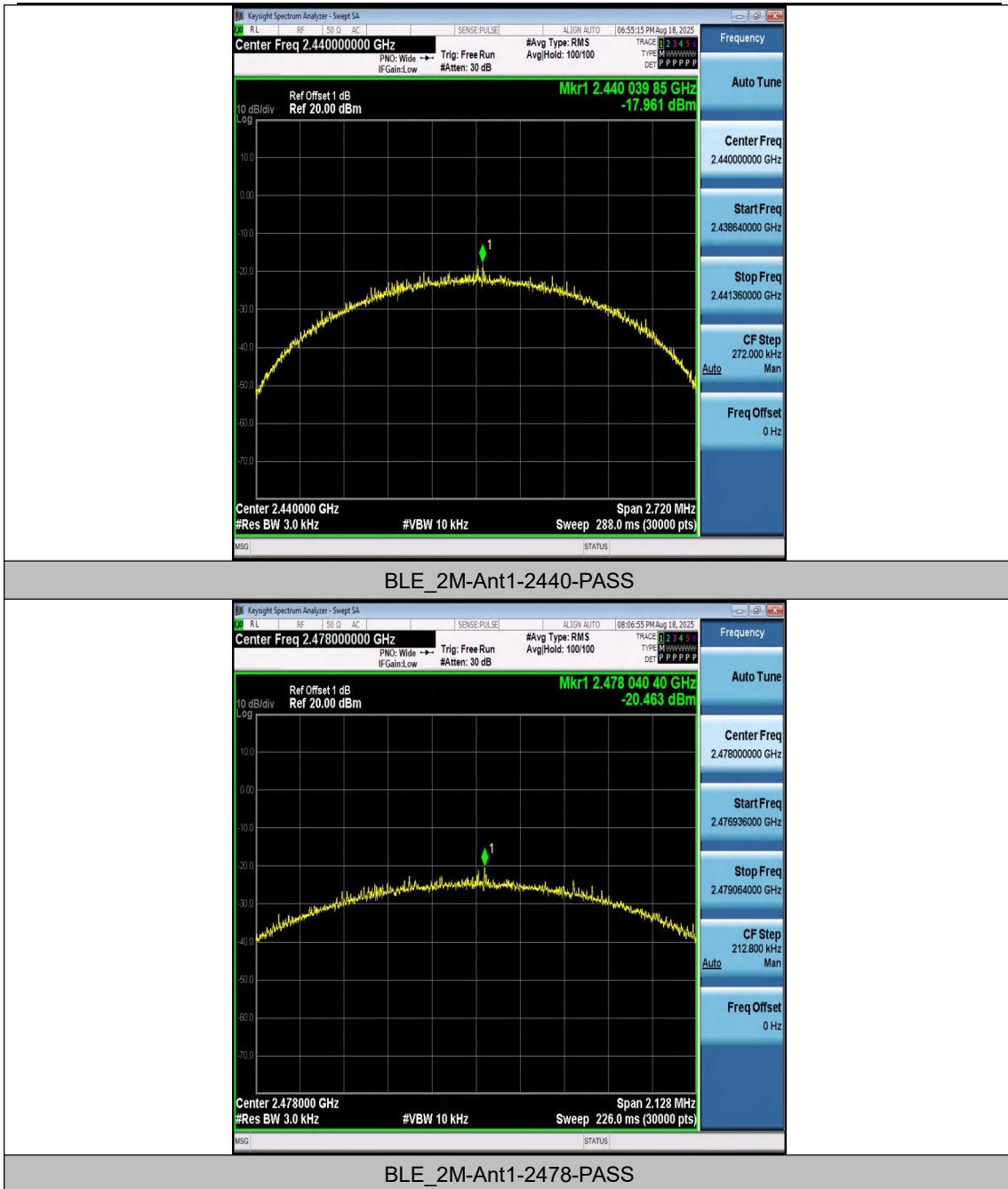
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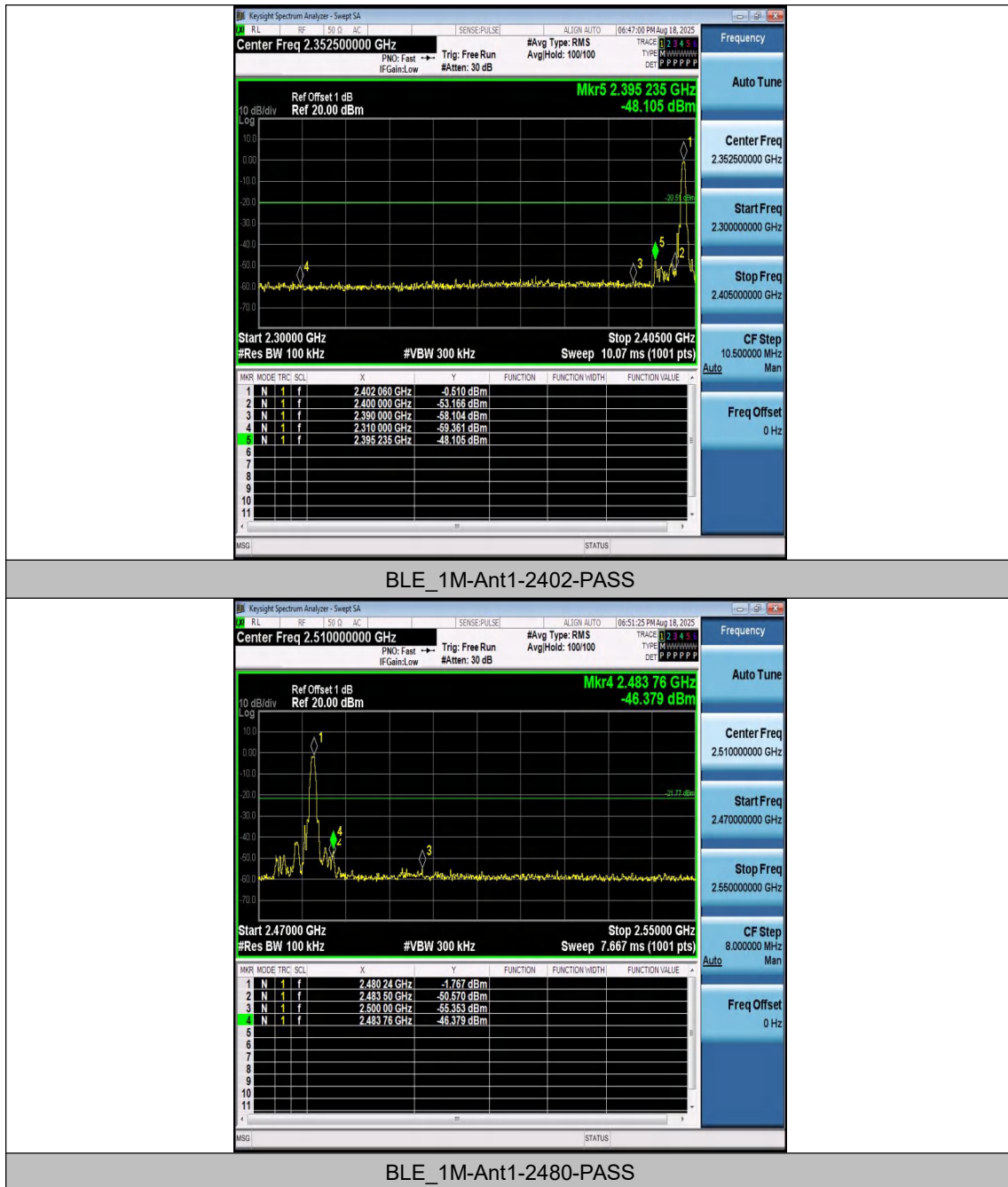
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.51	-48.11	≤-20.51	PASS
BLE_1M	Ant1	High	2480	-1.77	-46.38	≤-21.77	PASS
BLE_2M	Ant1	Low	2404	0.15	-46.59	≤-19.85	PASS
BLE_2M	Ant1	High	2478	-3.43	-55.98	≤-23.43	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.

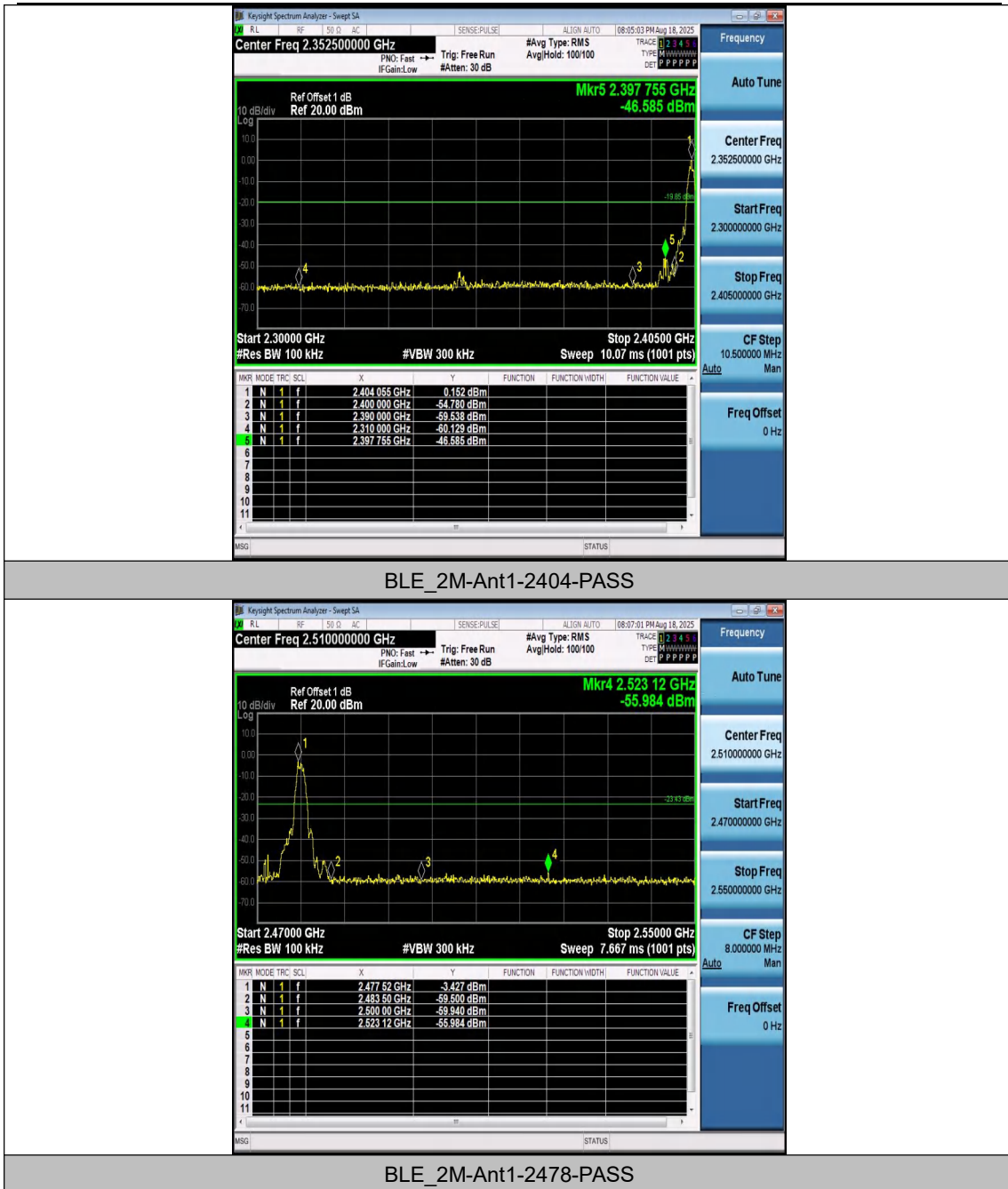
Test Graphs



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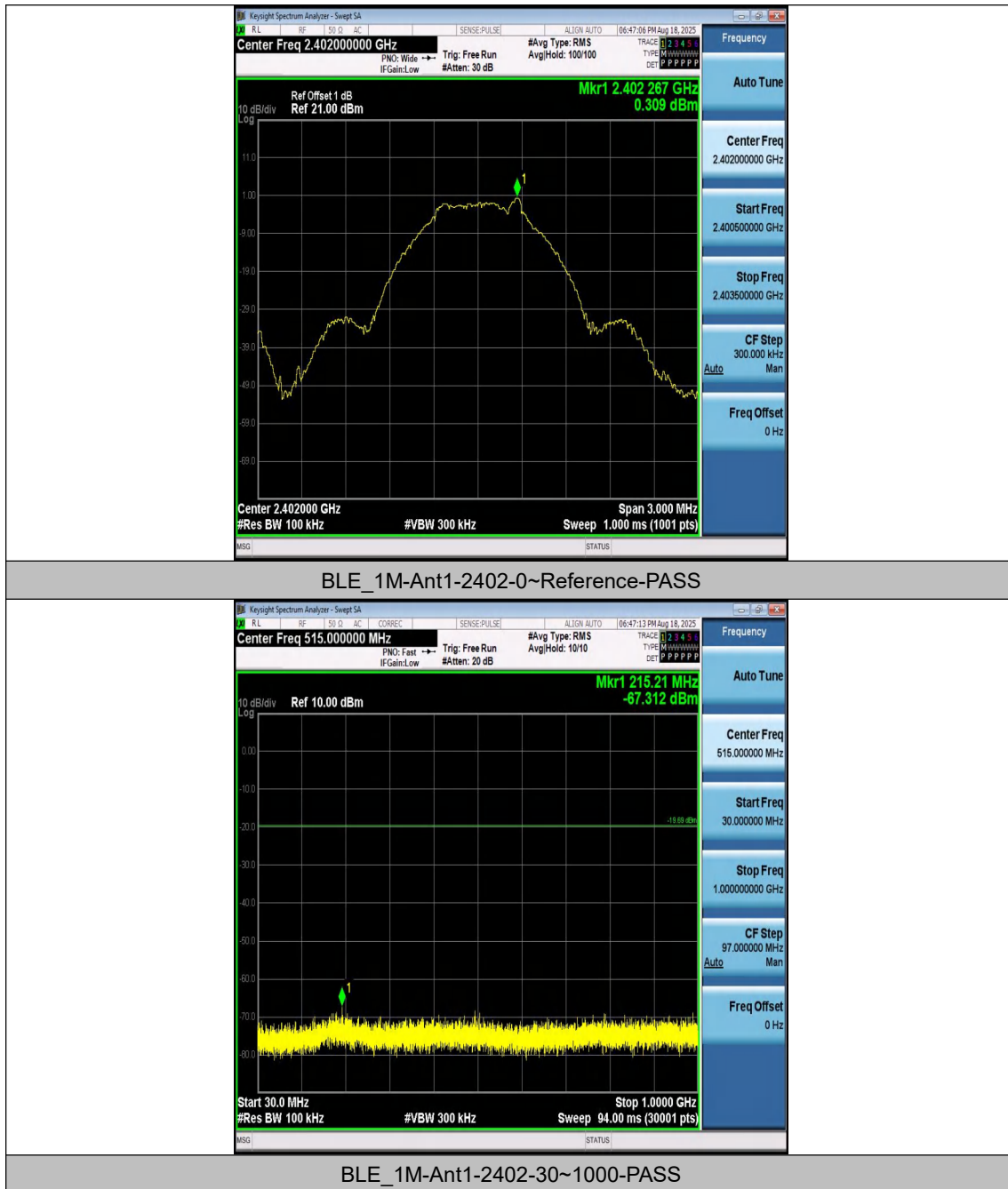
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.31	0.31	---	PASS
BLE_1M	Ant1	2402	30~1000	0.31	-67.31	≤-19.69	PASS
BLE_1M	Ant1	2402	1000~26500	0.31	-45.34	≤-19.69	PASS
BLE_1M	Ant1	2440	0~Reference	-0.11	-0.11	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.11	-68.27	≤-20.11	PASS
BLE_1M	Ant1	2440	1000~26500	-0.11	-44.96	≤-20.11	PASS
BLE_1M	Ant1	2480	0~Reference	-0.86	-0.86	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.86	-68.65	≤-20.86	PASS
BLE_1M	Ant1	2480	1000~26500	-0.86	-43.13	≤-20.86	PASS
BLE_2M	Ant1	2404	0~Reference	-0.92	-0.92	---	PASS
BLE_2M	Ant1	2404	30~1000	-0.92	-51.82	≤-20.92	PASS
BLE_2M	Ant1	2404	1000~26500	-0.92	-48.5	≤-20.92	PASS
BLE_2M	Ant1	2440	0~Reference	-0.32	-0.32	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.32	-68.71	≤-20.32	PASS
BLE_2M	Ant1	2440	1000~26500	-0.32	-44.87	≤-20.32	PASS
BLE_2M	Ant1	2478	0~Reference	-2.87	-2.87	---	PASS
BLE_2M	Ant1	2478	30~1000	-2.87	-52.05	≤-22.87	PASS
BLE_2M	Ant1	2478	1000~26500	-2.87	-44.88	≤-22.87	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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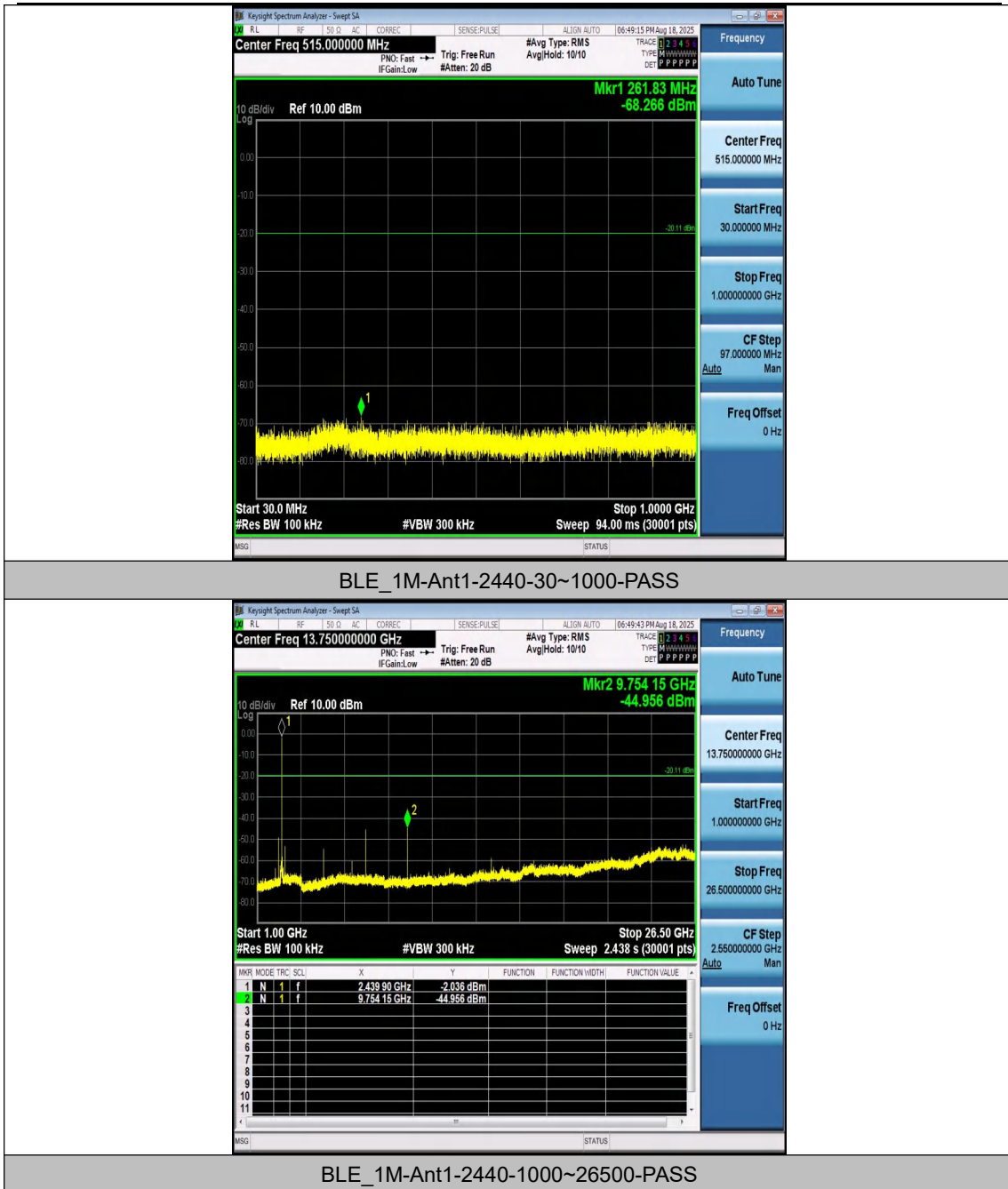
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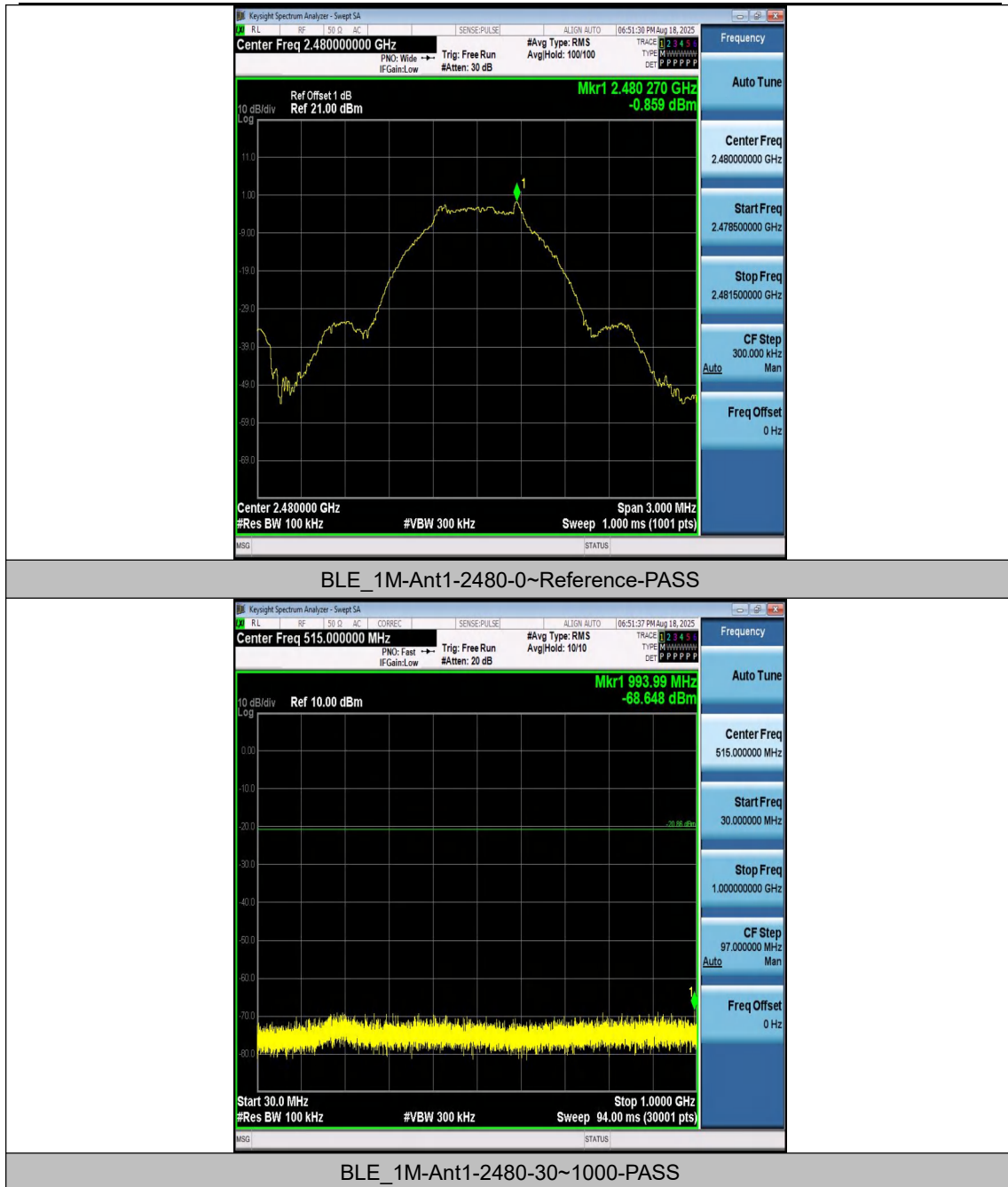
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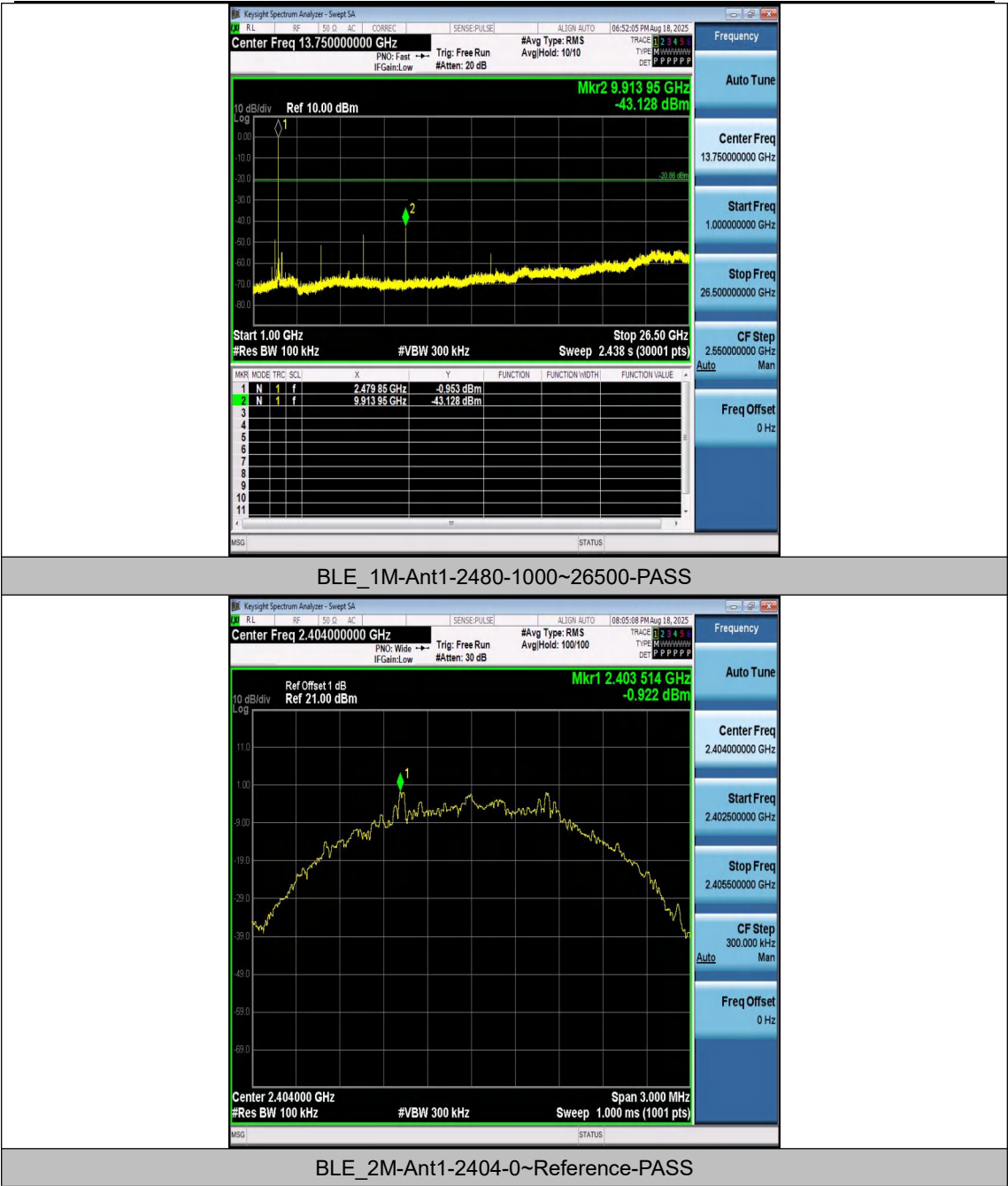
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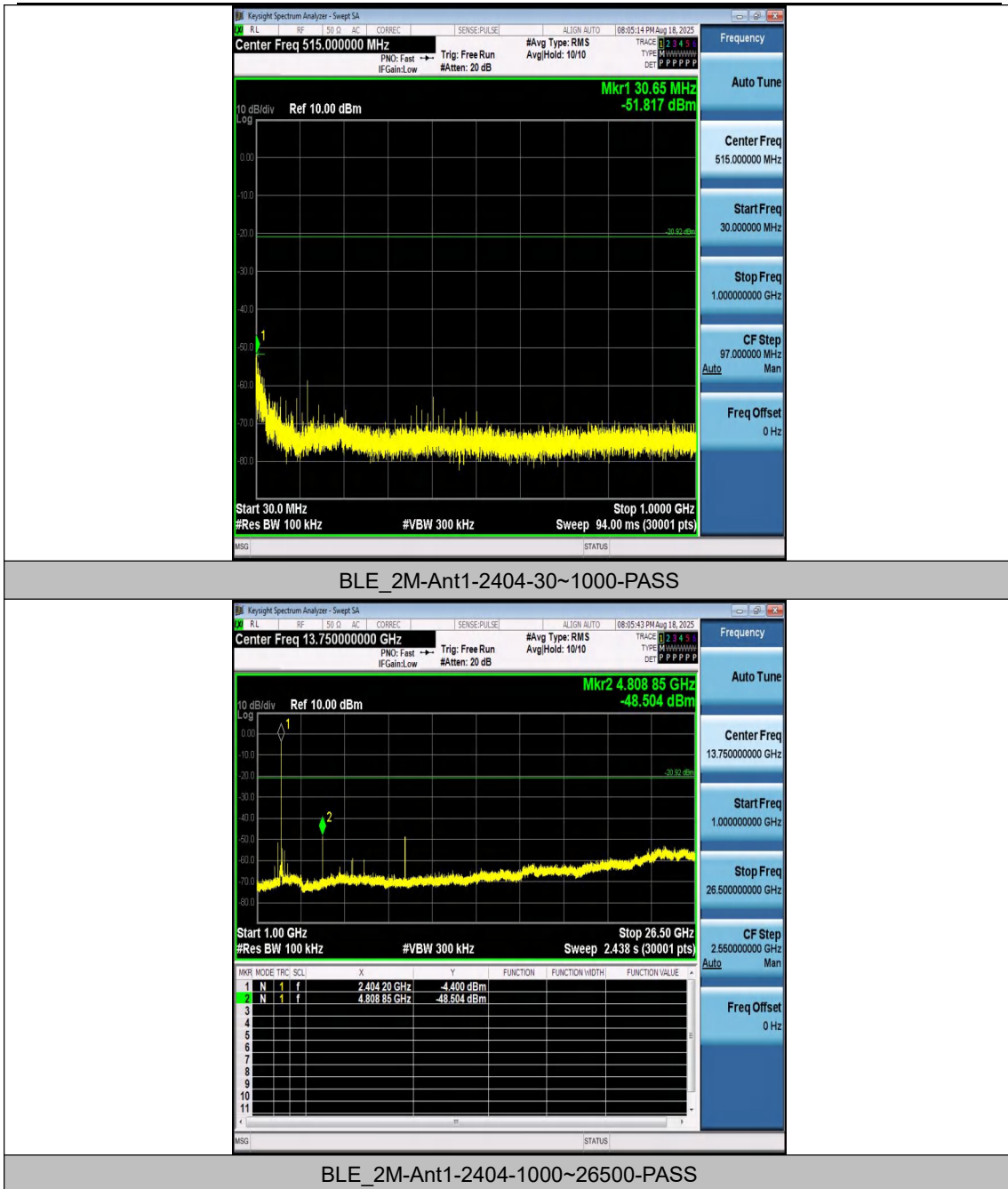


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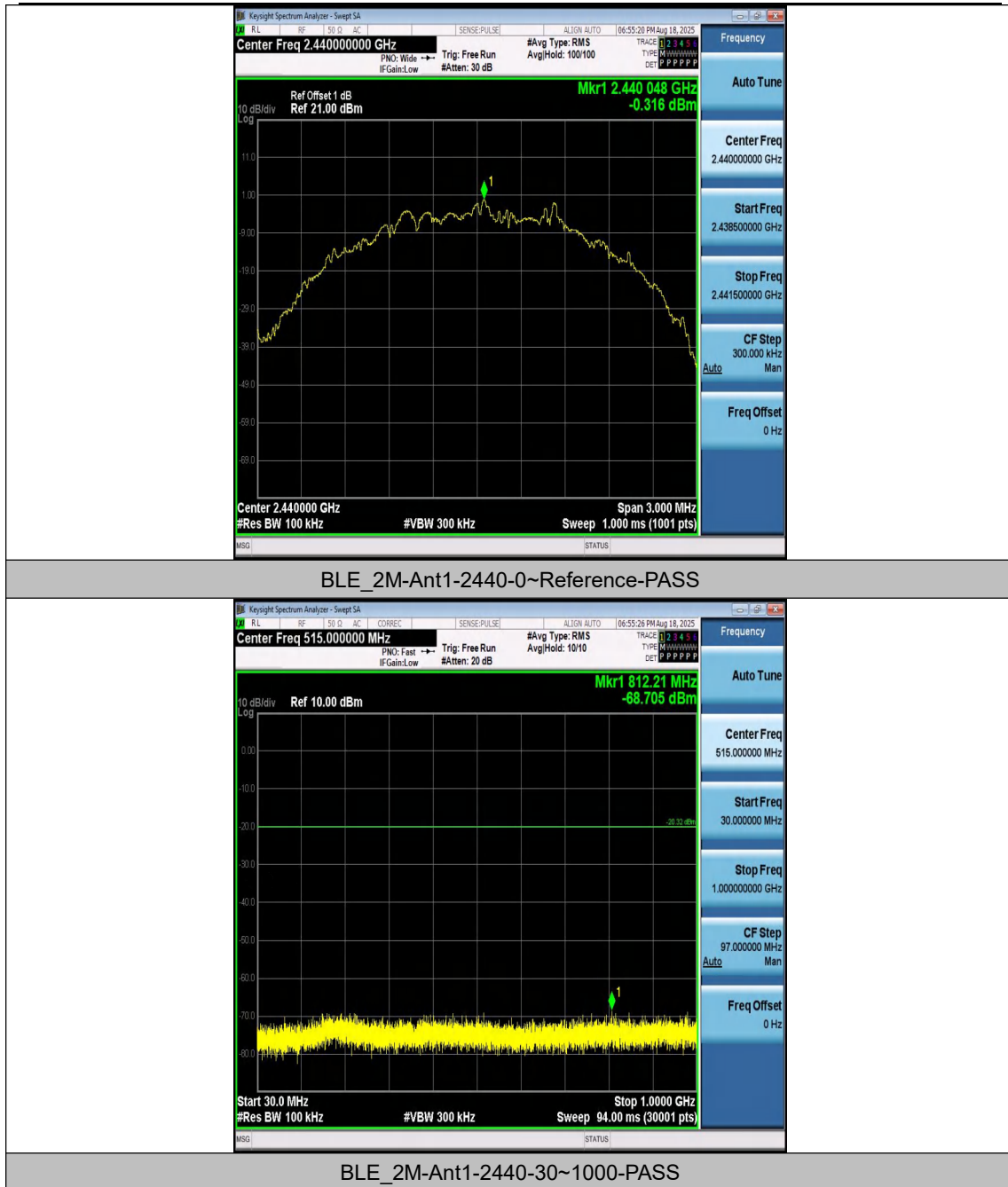




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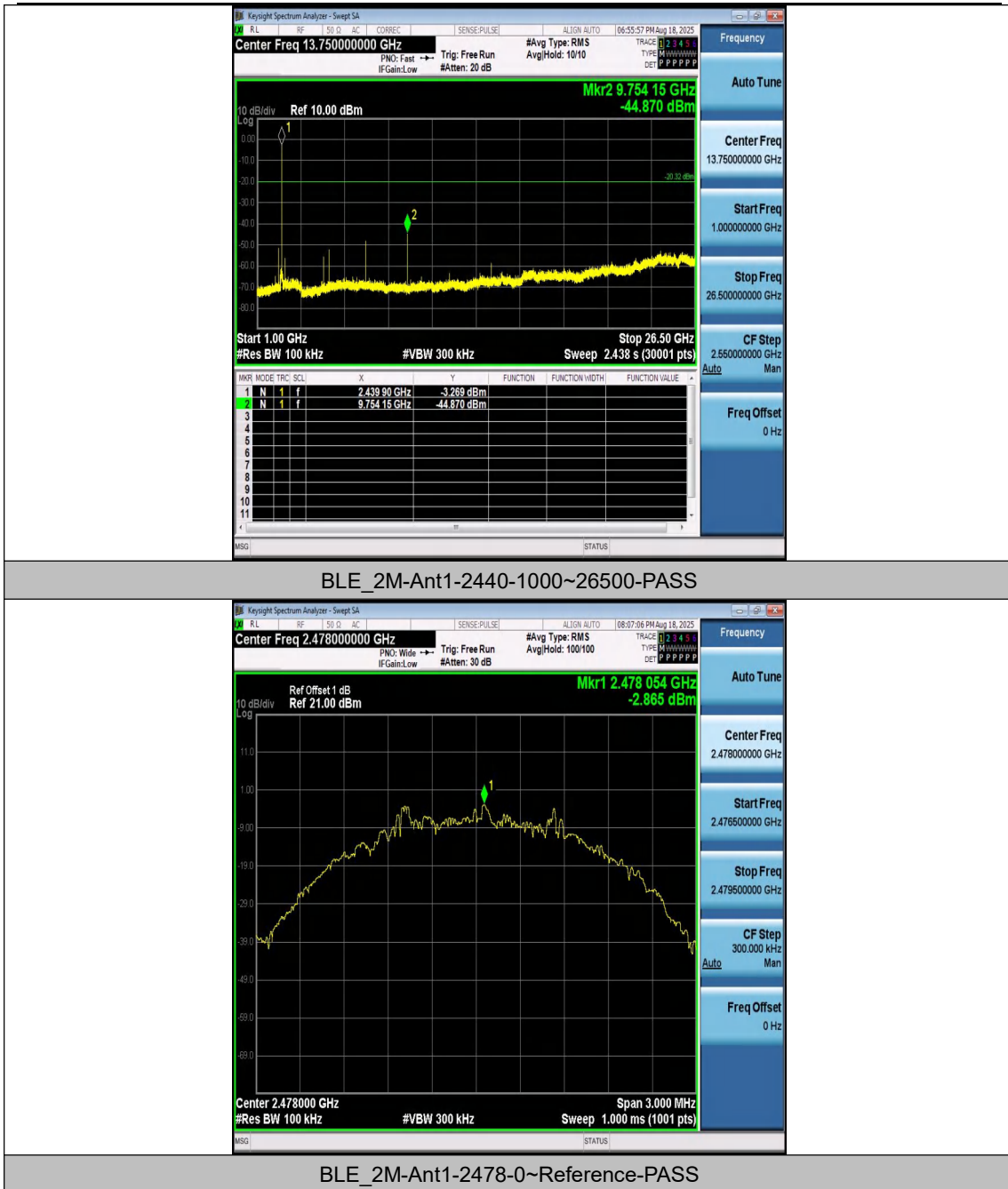
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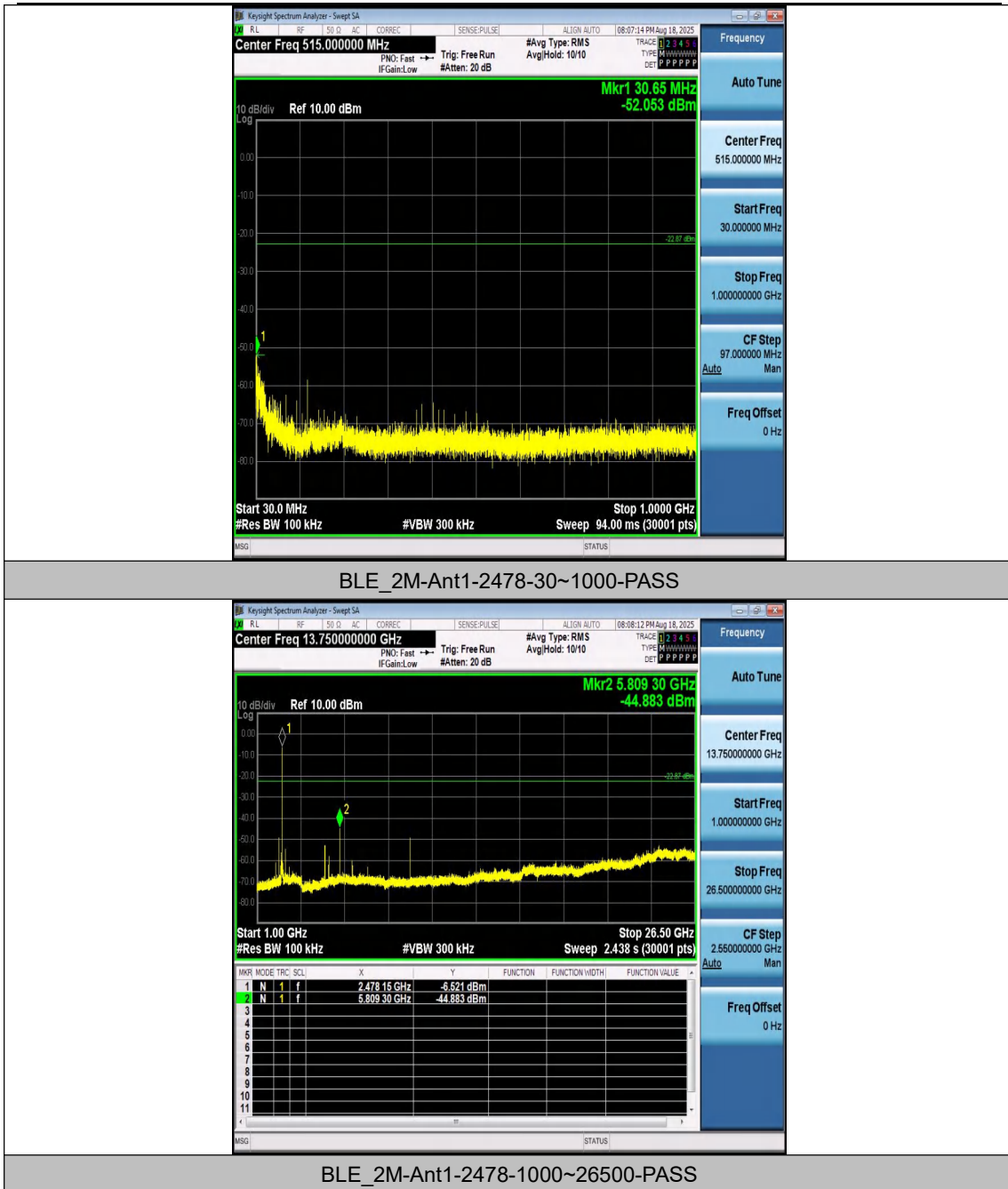
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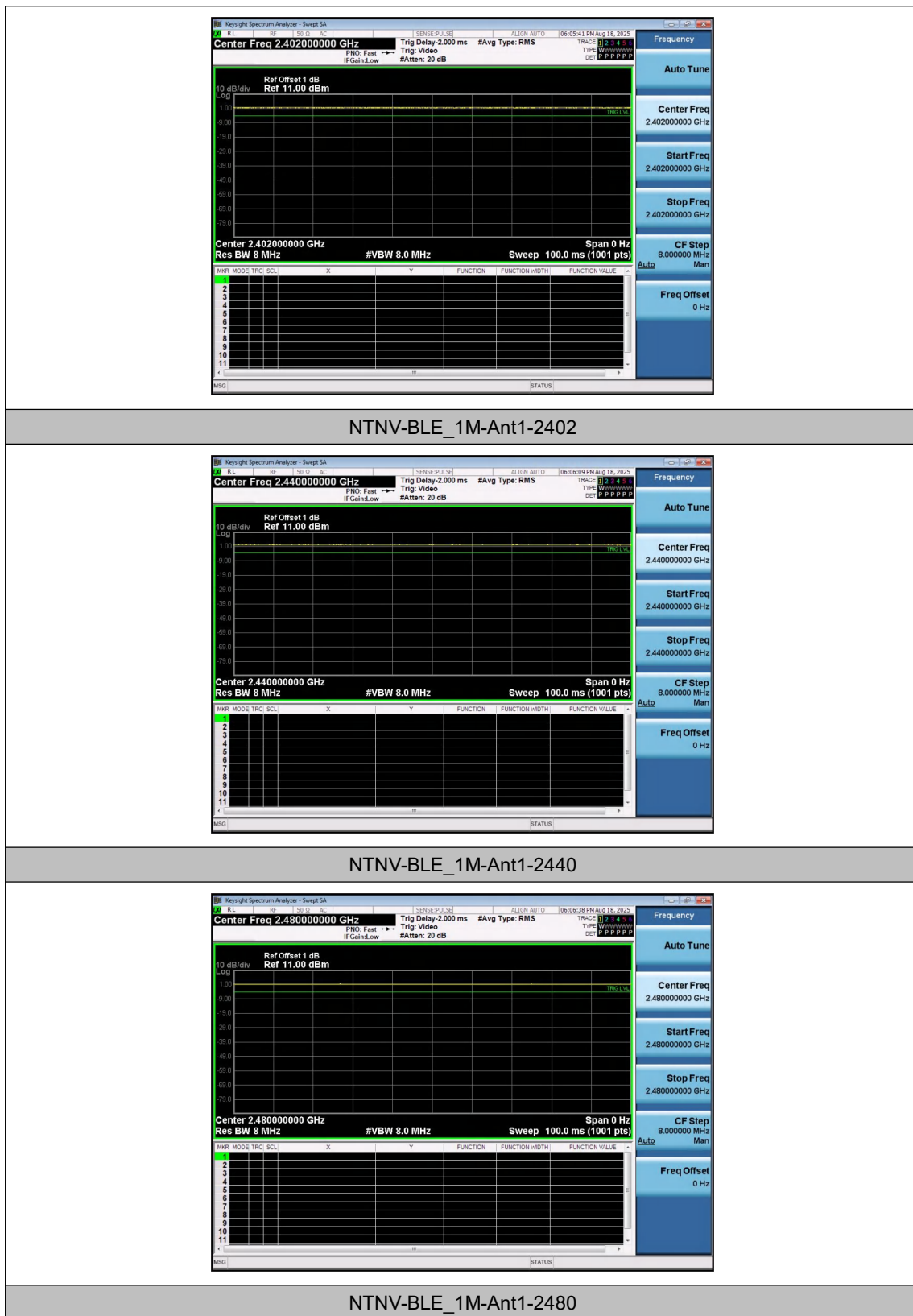
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2480	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2404	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2478	100.00	100.00	100.00	0.00

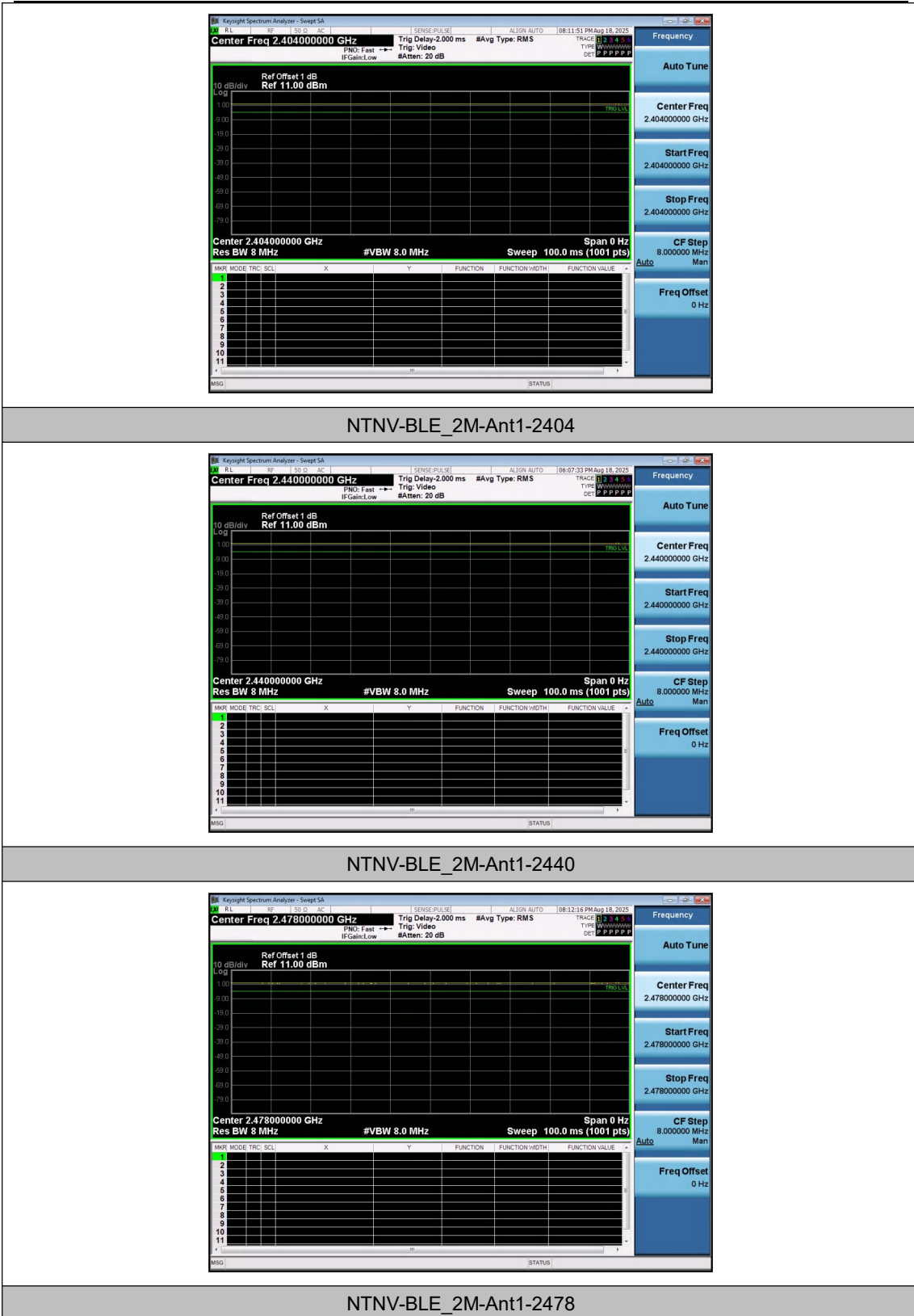
Test Graphs



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