

Appendix Test Data

Report No.:	1812C50541412502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-15	Finish Test Date:	2025-10-29
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.7°C	Relative Humidity:	50%
Pressure:	101kPa		

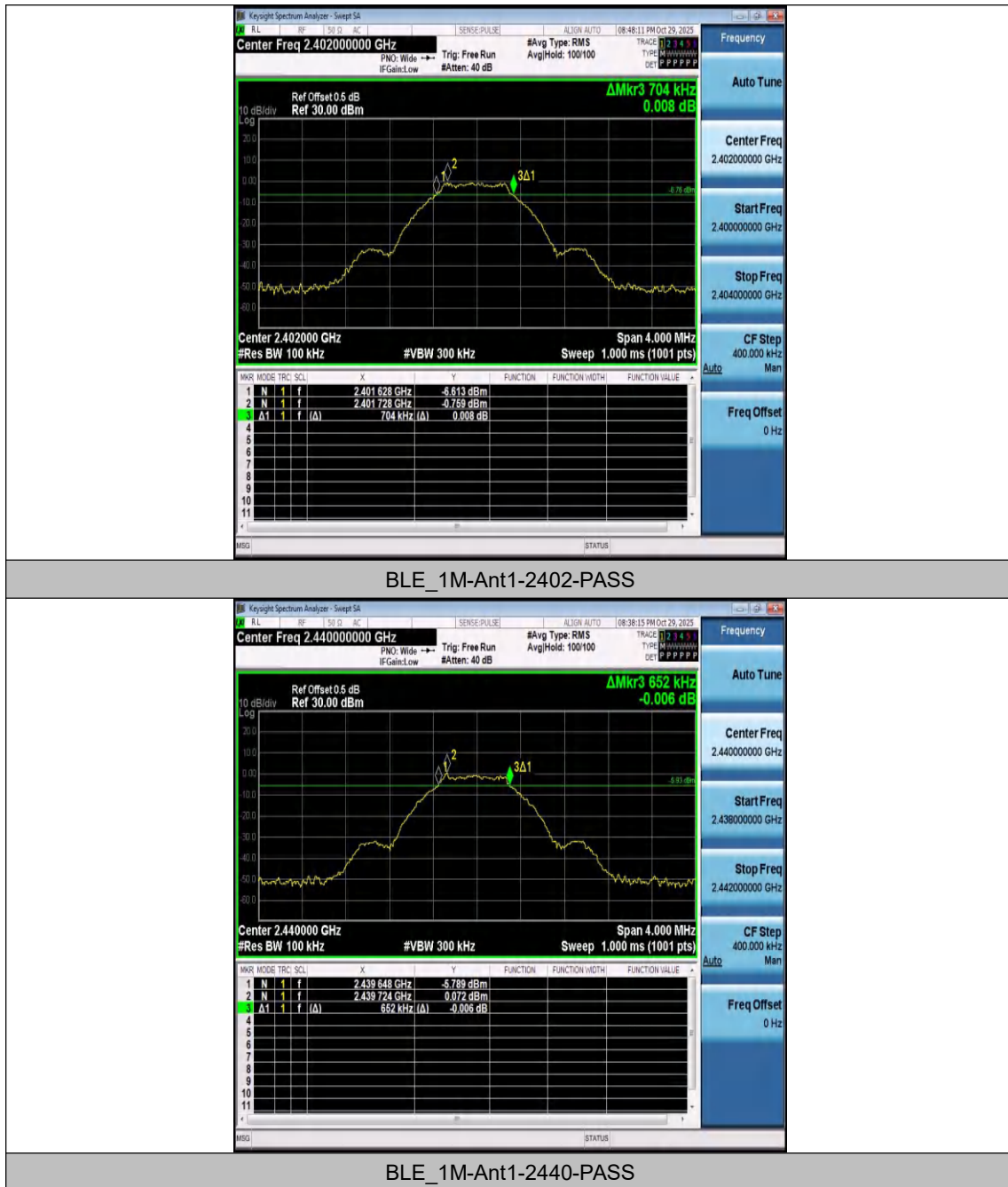


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.628	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.648	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.616	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.316	2401.320	2402.636	0.5	PASS
BLE_2M	Ant1	2440	1.456	2439.228	2440.684	0.5	PASS
BLE_2M	Ant1	2480	1.216	2479.364	2480.580	0.5	PASS

Test Graphs





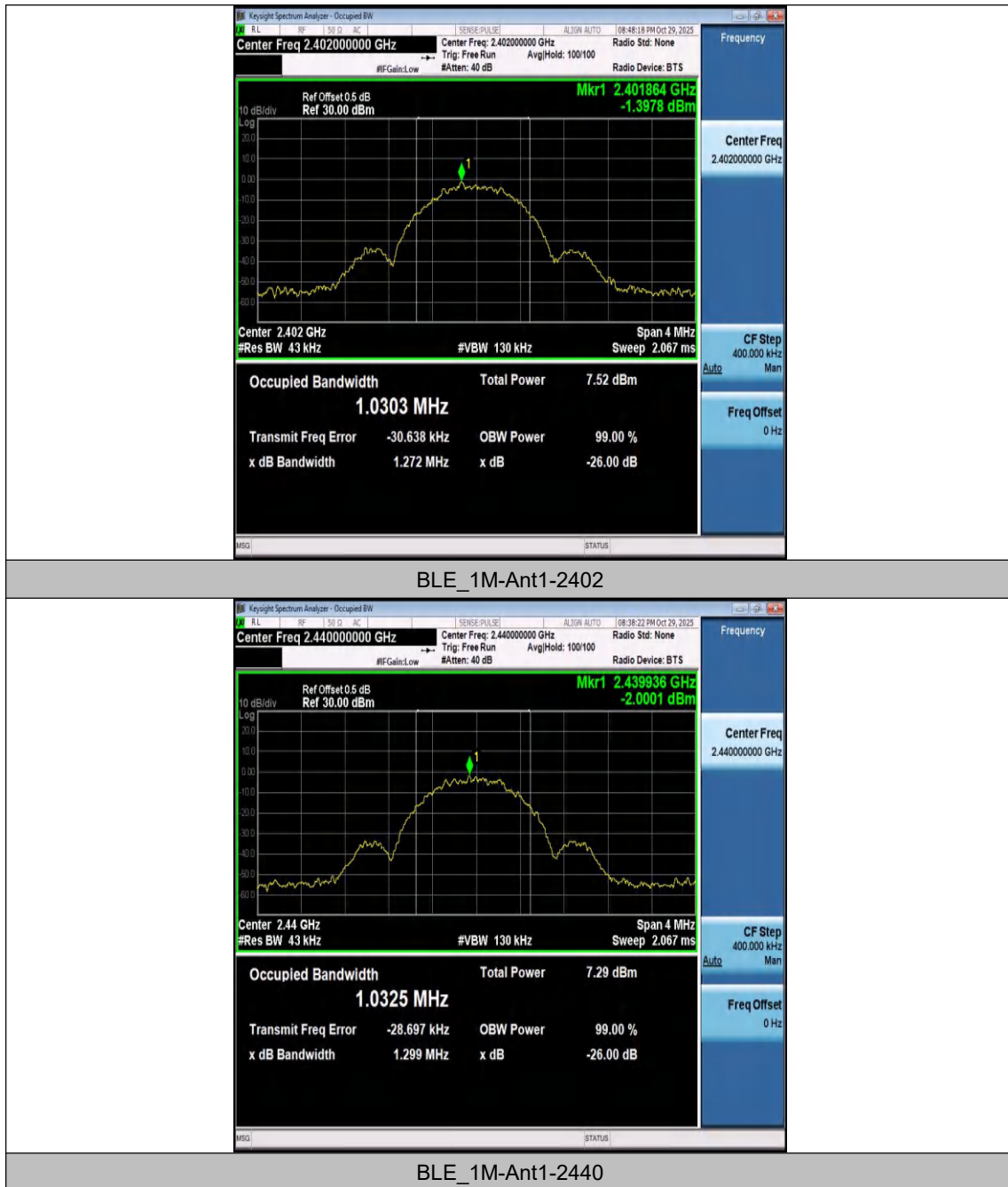


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0303	2401.4542	2402.4845	---	---
BLE_1M	Ant1	2440	1.0325	2439.4551	2440.4876	---	---
BLE_1M	Ant1	2480	1.0444	2479.4496	2480.4940	---	---
BLE_2M	Ant1	2402	2.0220	2400.9626	2402.9846	---	---
BLE_2M	Ant1	2440	2.0755	2438.9398	2441.0153	---	---
BLE_2M	Ant1	2480	2.0506	2478.9319	2480.9825	---	---

Test Graphs



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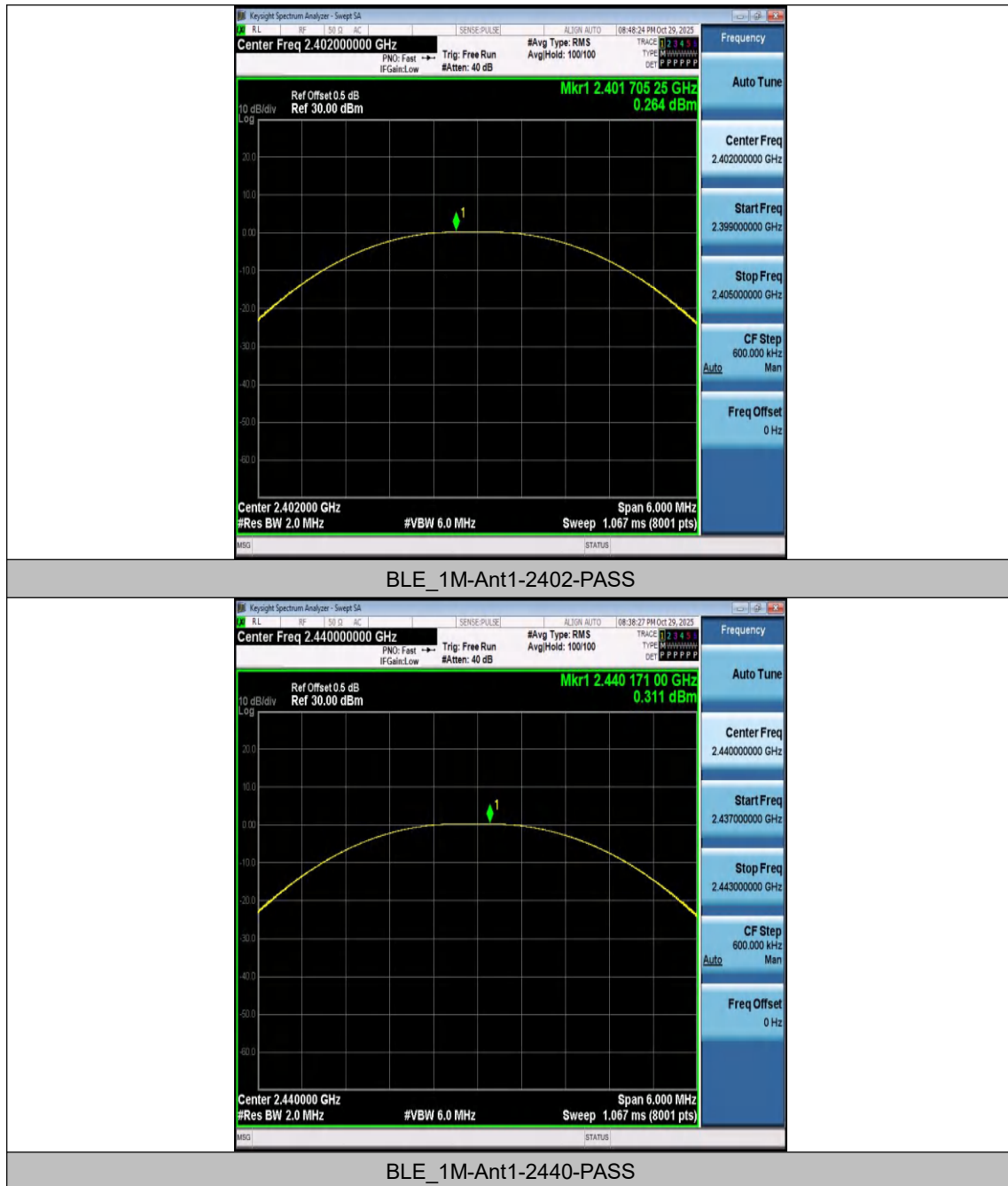
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.26	≤30	PASS
BLE_1M	Ant1	2440	0.31	≤30	PASS
BLE_1M	Ant1	2480	0.33	≤30	PASS
BLE_2M	Ant1	2402	0.24	≤30	PASS
BLE_2M	Ant1	2440	0.31	≤30	PASS
BLE_2M	Ant1	2480	0.34	≤30	PASS

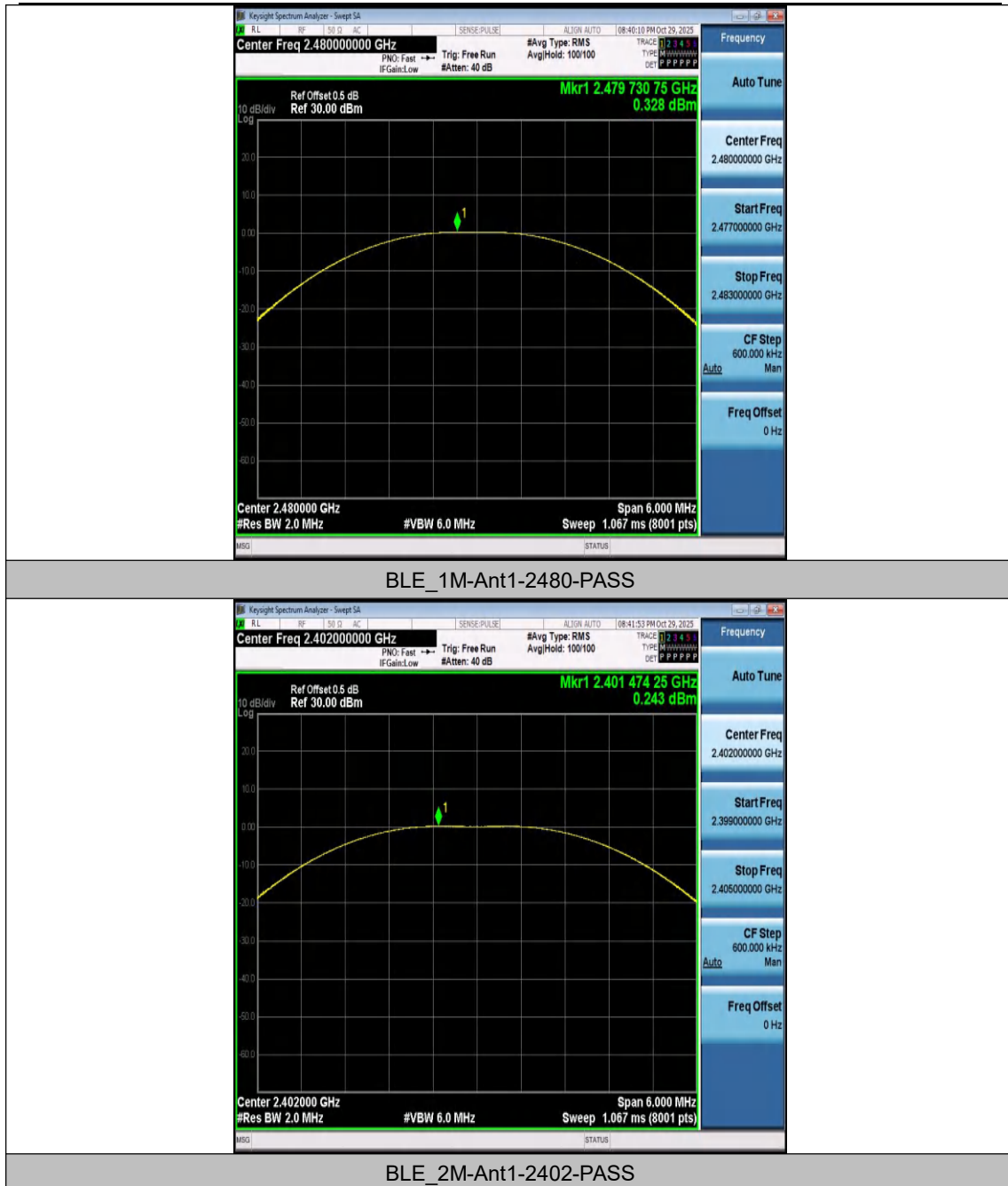
Test Graphs Peak



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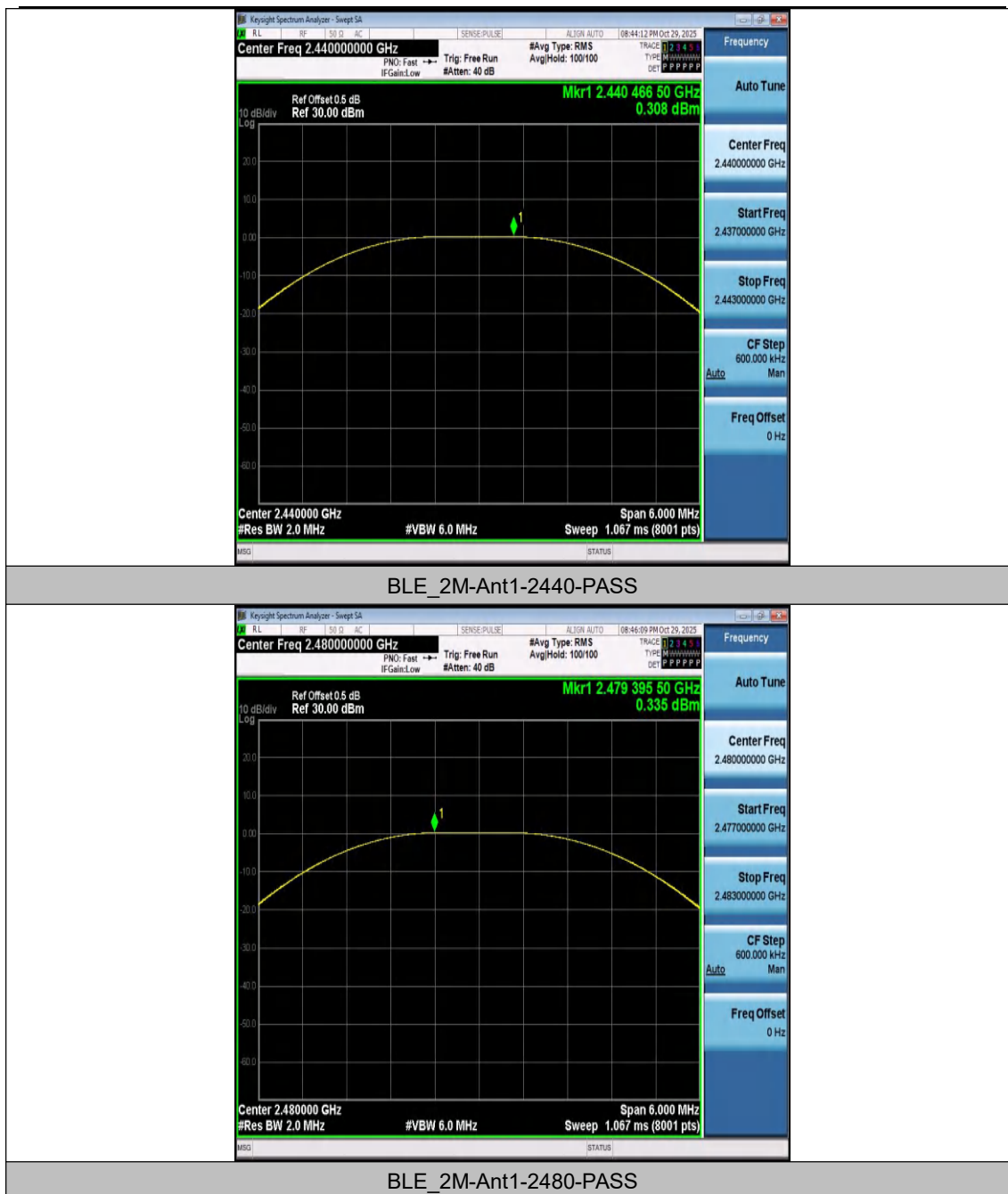
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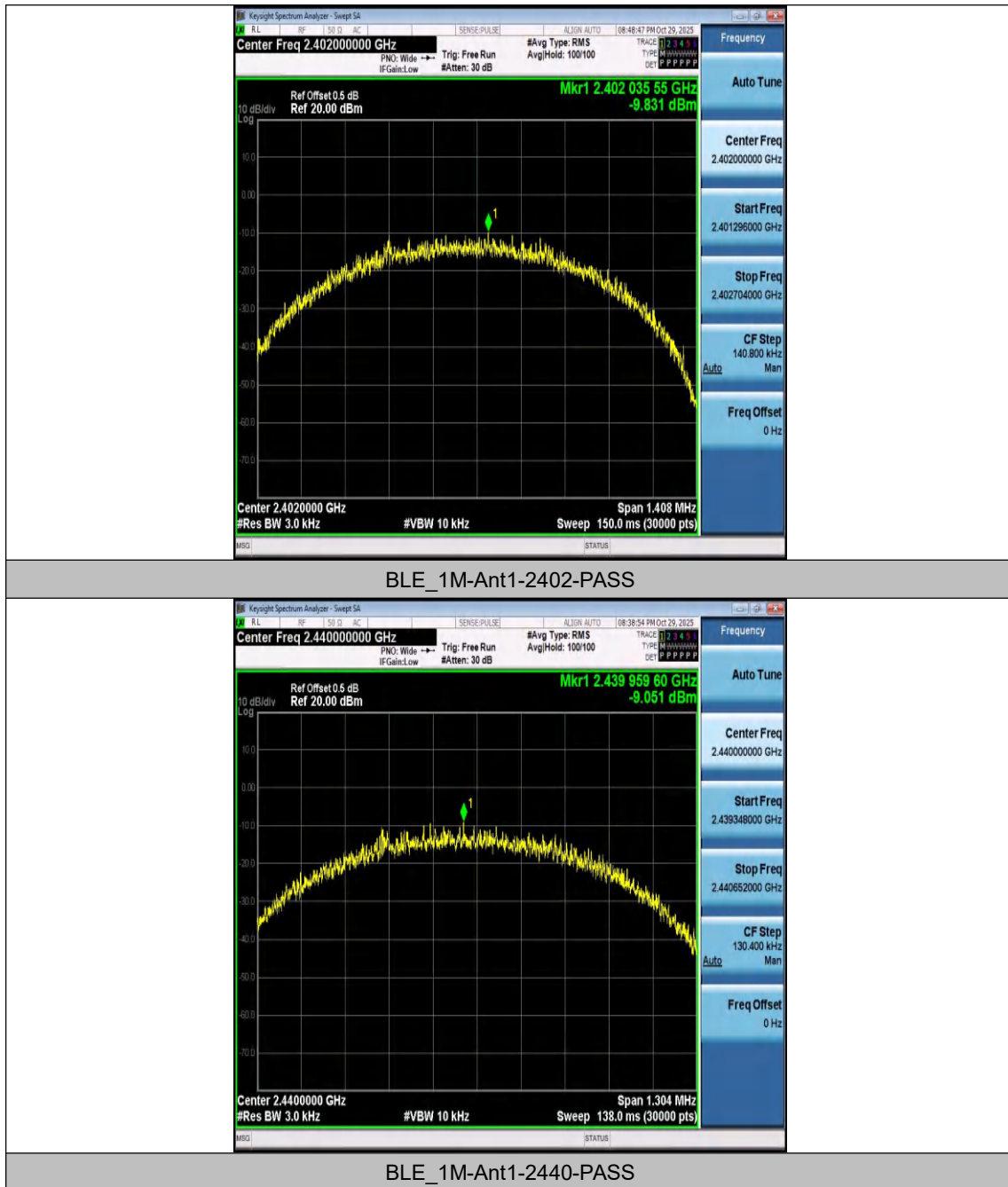
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.83	≤8.00	PASS
BLE_1M	Ant1	2440	-9.05	≤8.00	PASS
BLE_1M	Ant1	2480	-9.75	≤8.00	PASS
BLE_2M	Ant1	2402	-12.60	≤8.00	PASS
BLE_2M	Ant1	2440	-12.10	≤8.00	PASS
BLE_2M	Ant1	2480	-12.83	≤8.00	PASS

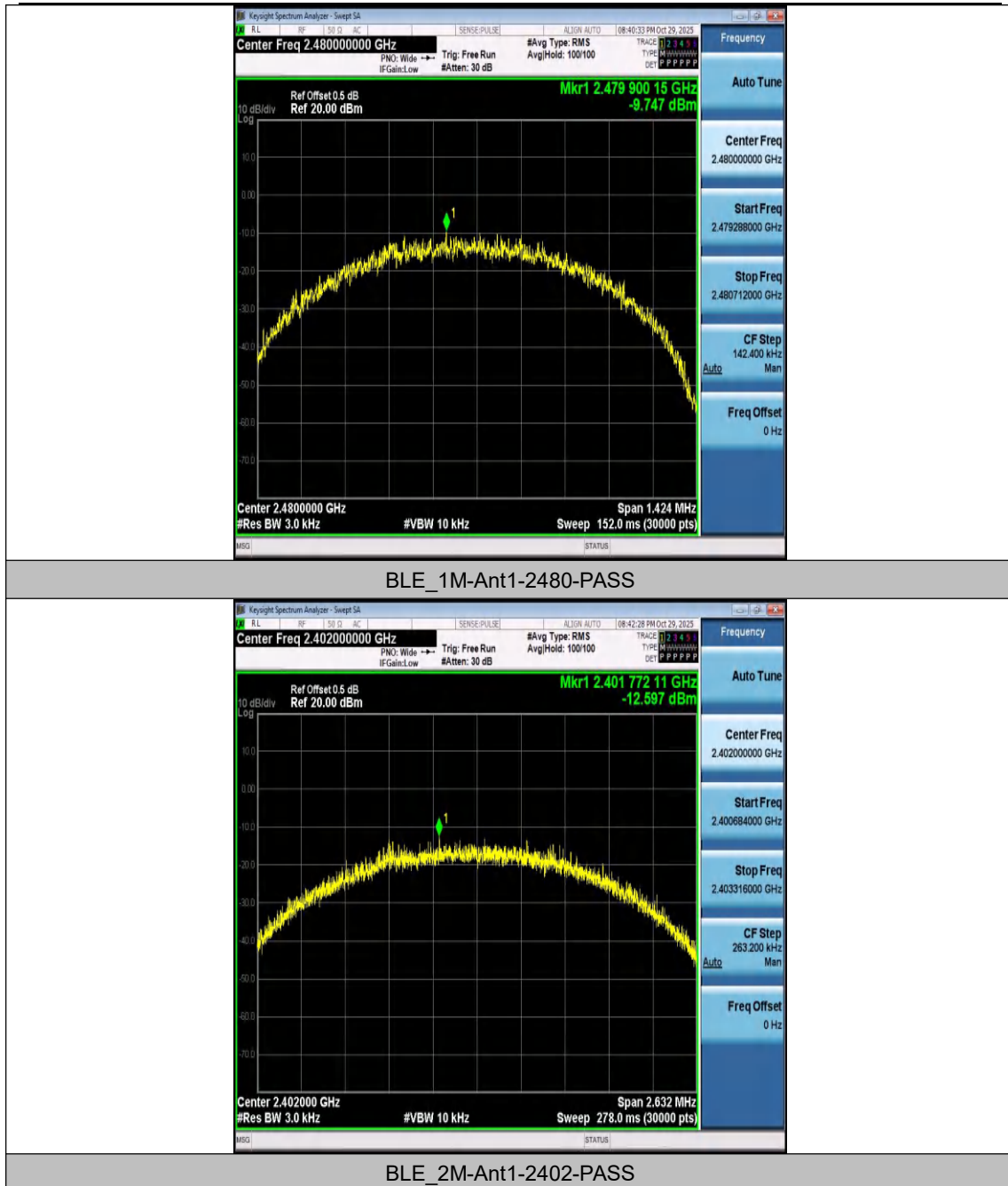
Test Graphs



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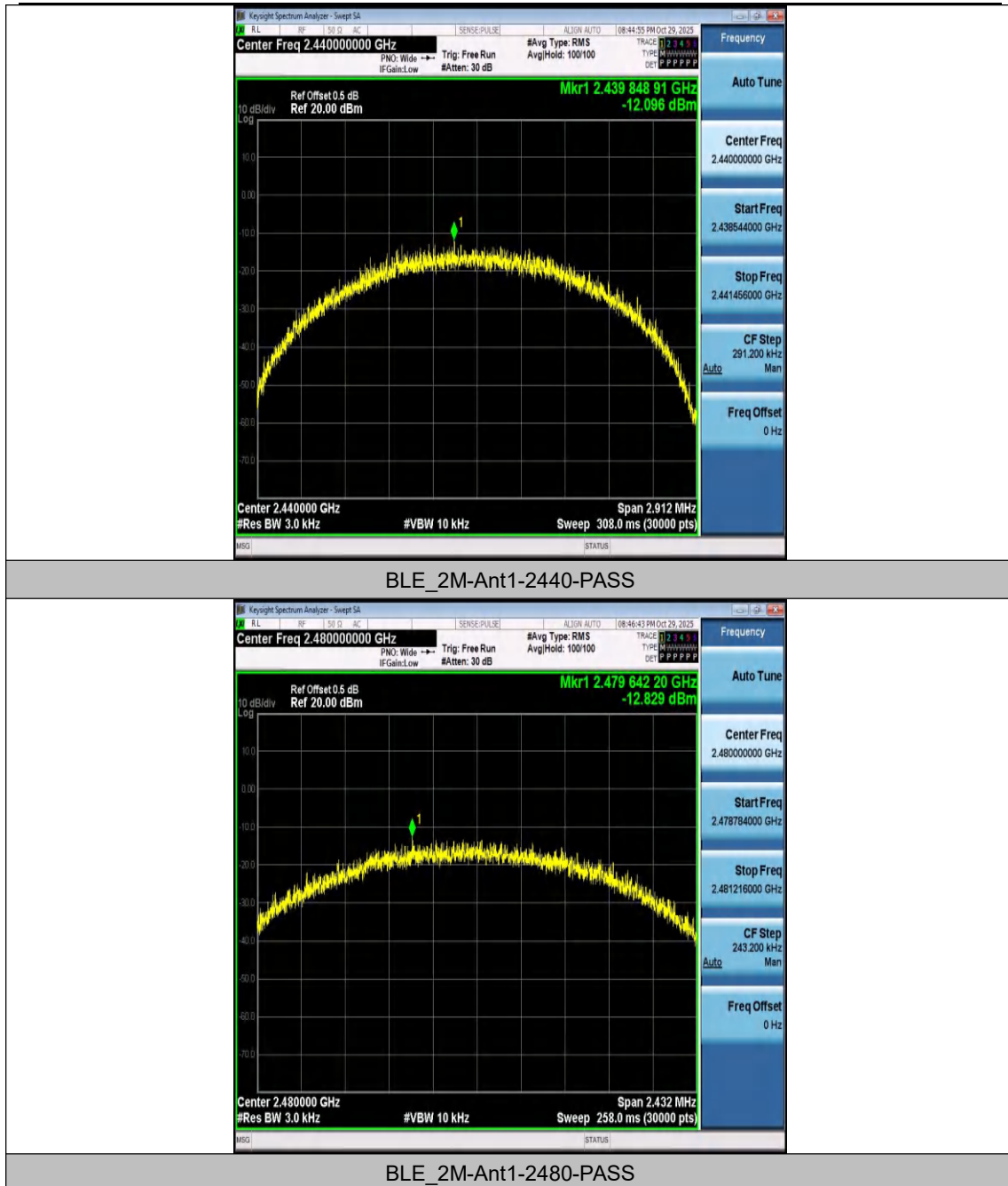
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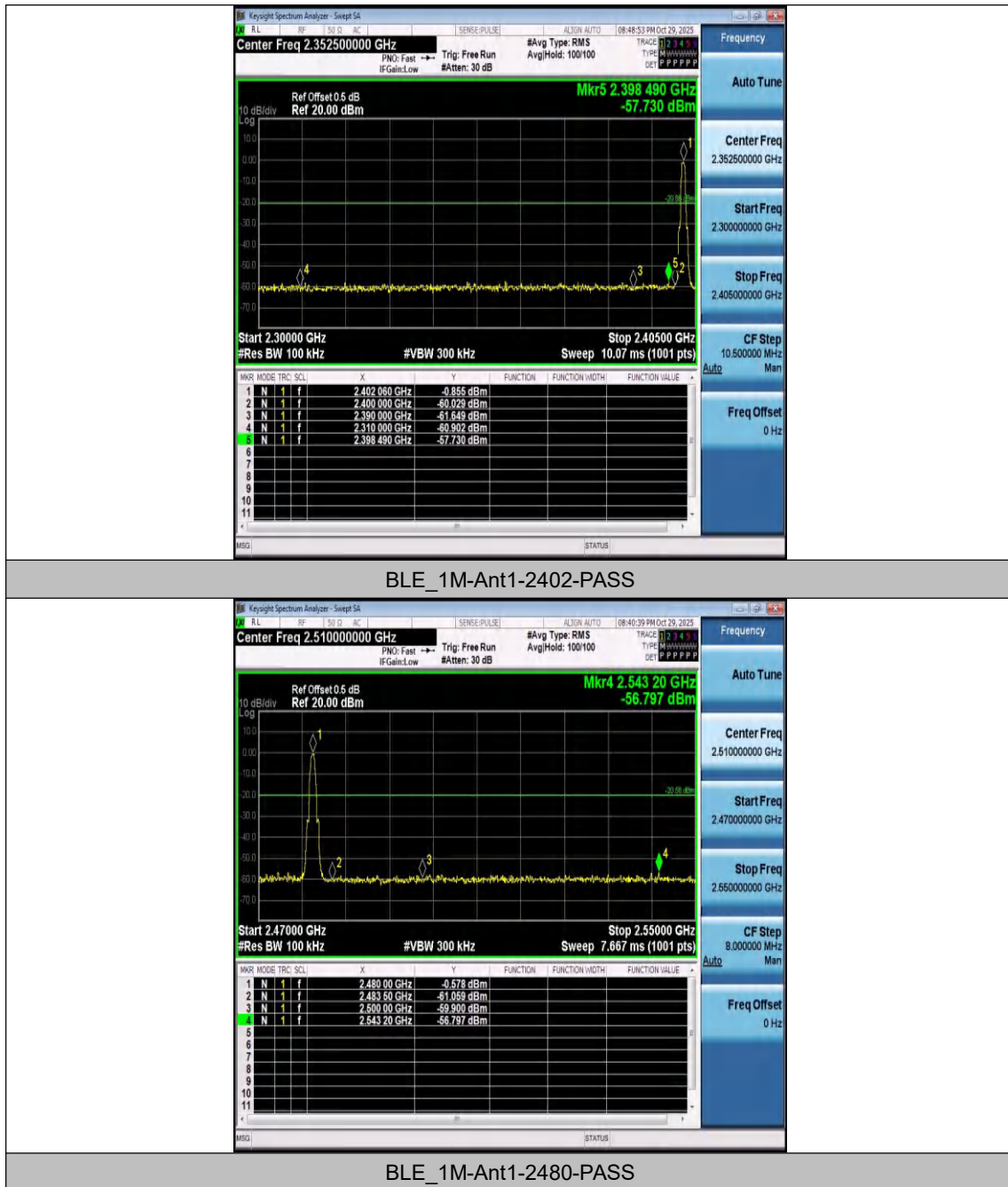
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.86	-57.73	≤-20.86	PASS
BLE_1M	Ant1	High	2480	-0.58	-56.8	≤-20.58	PASS
BLE_2M	Ant1	Low	2402	-2.17	-35.44	≤-22.17	PASS
BLE_2M	Ant1	High	2480	-1.13	-56.66	≤-21.13	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.

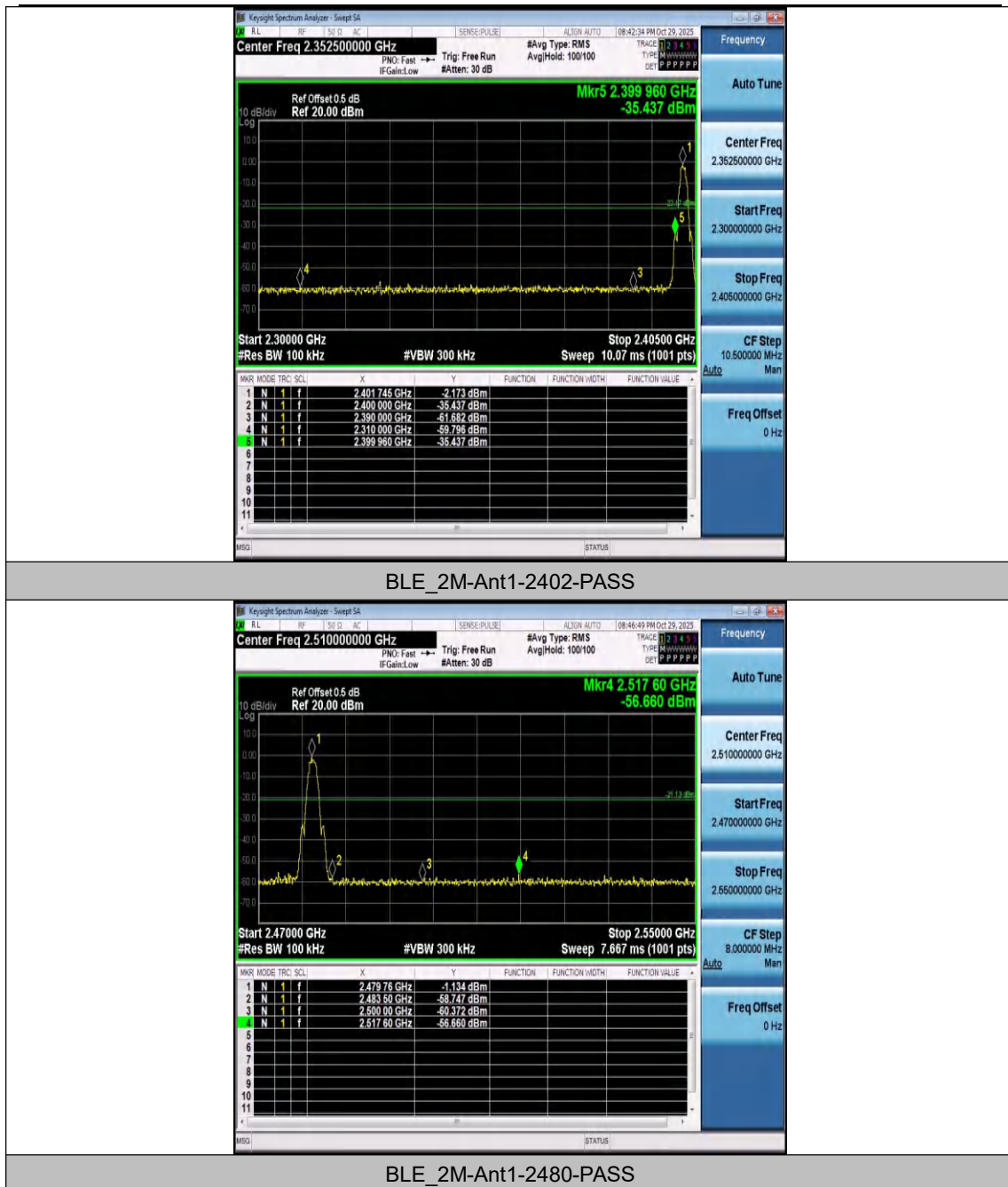
Test Graphs



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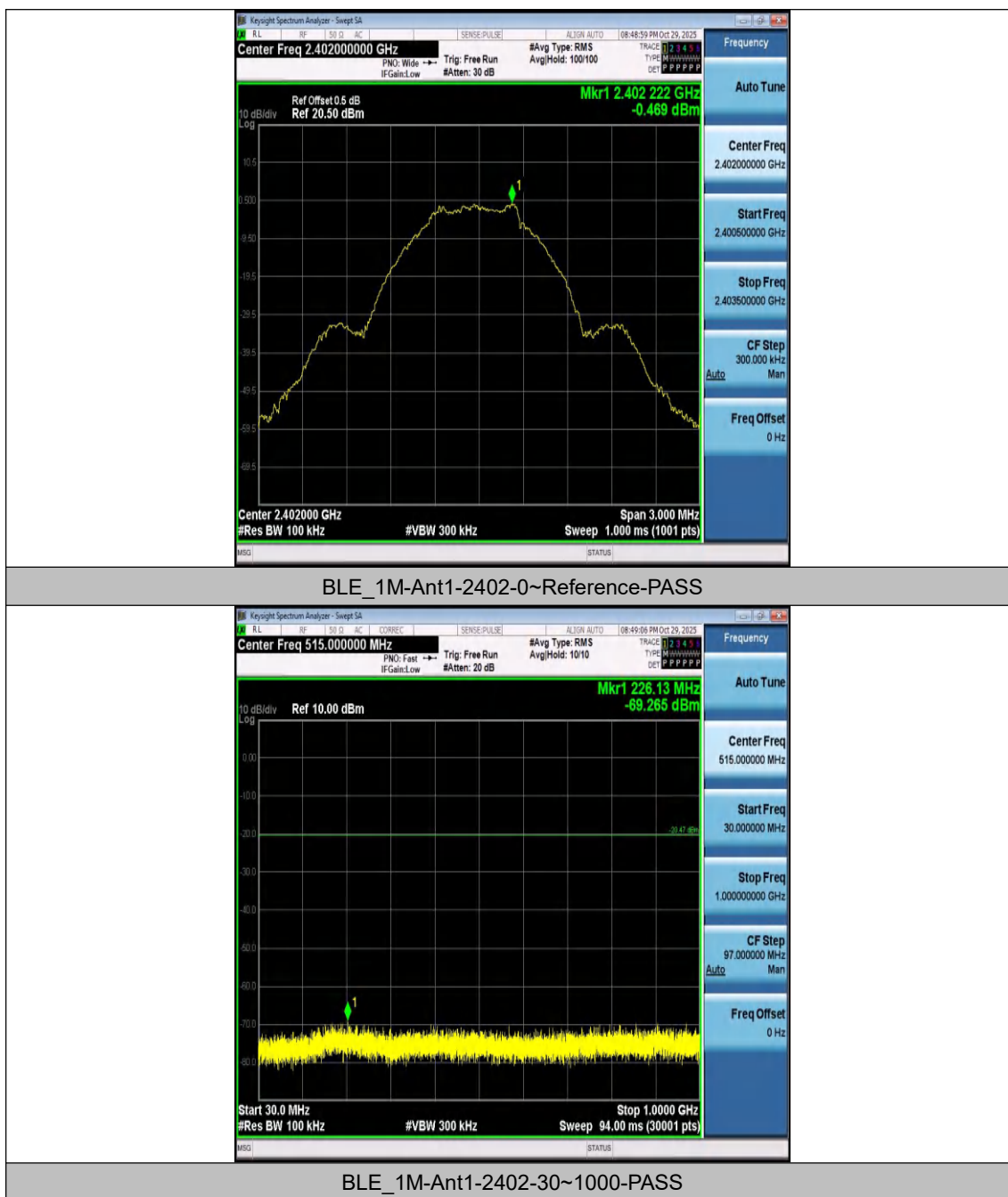
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.47	-0.47	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.47	-69.27	≤-20.47	PASS
BLE_1M	Ant1	2402	1000~26500	-0.47	-26.83	≤-20.47	PASS
BLE_1M	Ant1	2440	0~Reference	-0.01	-0.01	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.01	-68.06	≤-20.01	PASS
BLE_1M	Ant1	2440	1000~26500	-0.01	-27.71	≤-20.01	PASS
BLE_1M	Ant1	2480	0~Reference	0.13	0.13	---	PASS
BLE_1M	Ant1	2480	30~1000	0.13	-69.51	≤-19.87	PASS
BLE_1M	Ant1	2480	1000~26500	0.13	-26.19	≤-19.87	PASS
BLE_2M	Ant1	2402	0~Reference	-2.05	-2.05	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.05	-68.32	≤-22.05	PASS
BLE_2M	Ant1	2402	1000~26500	-2.05	-28.58	≤-22.05	PASS
BLE_2M	Ant1	2440	0~Reference	-2.16	-2.16	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.16	-68.77	≤-22.16	PASS
BLE_2M	Ant1	2440	1000~26500	-2.16	-26.81	≤-22.16	PASS
BLE_2M	Ant1	2480	0~Reference	-1.53	-1.53	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.53	-68.74	≤-21.53	PASS
BLE_2M	Ant1	2480	1000~26500	-1.53	-28.61	≤-21.53	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.

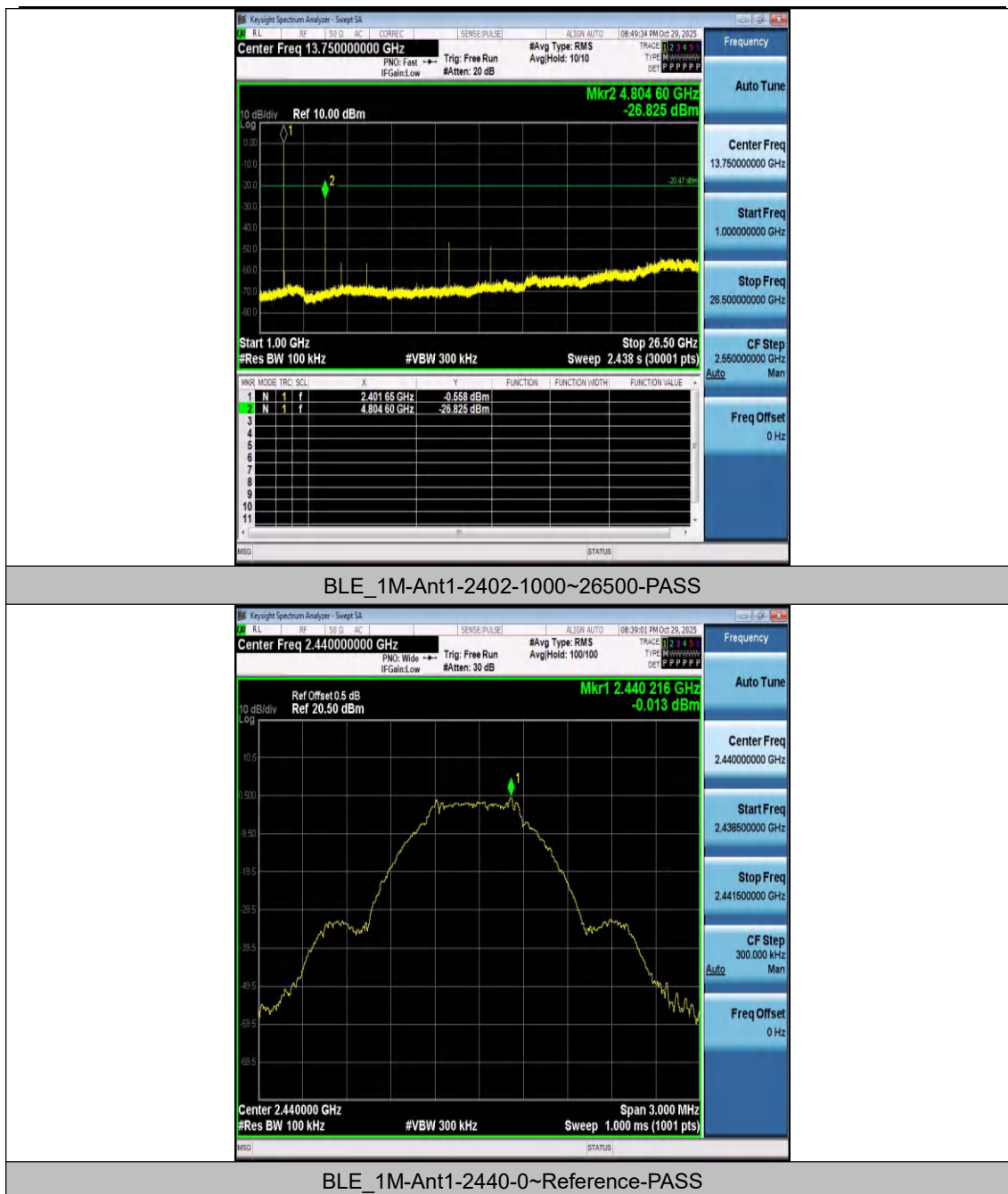
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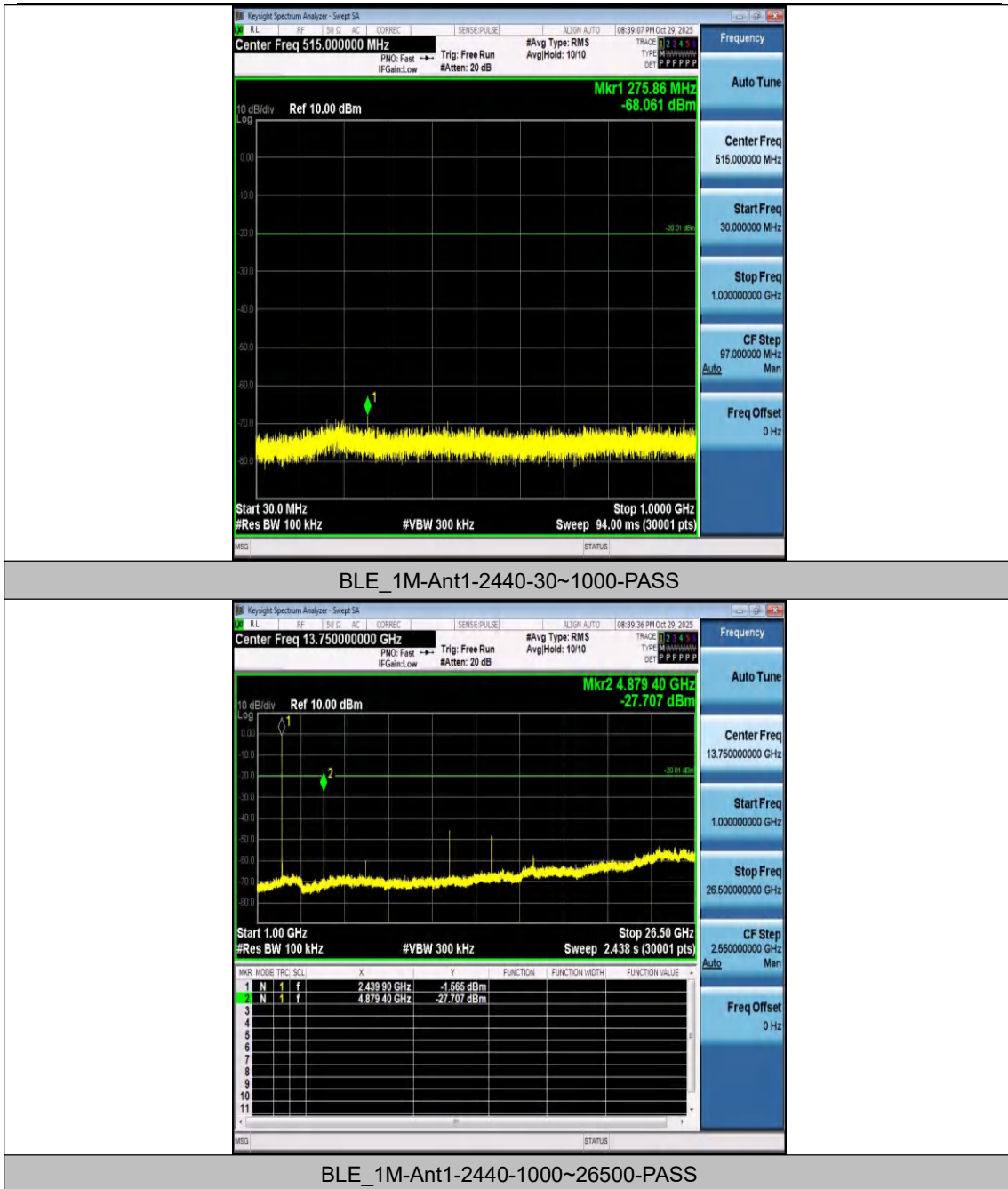
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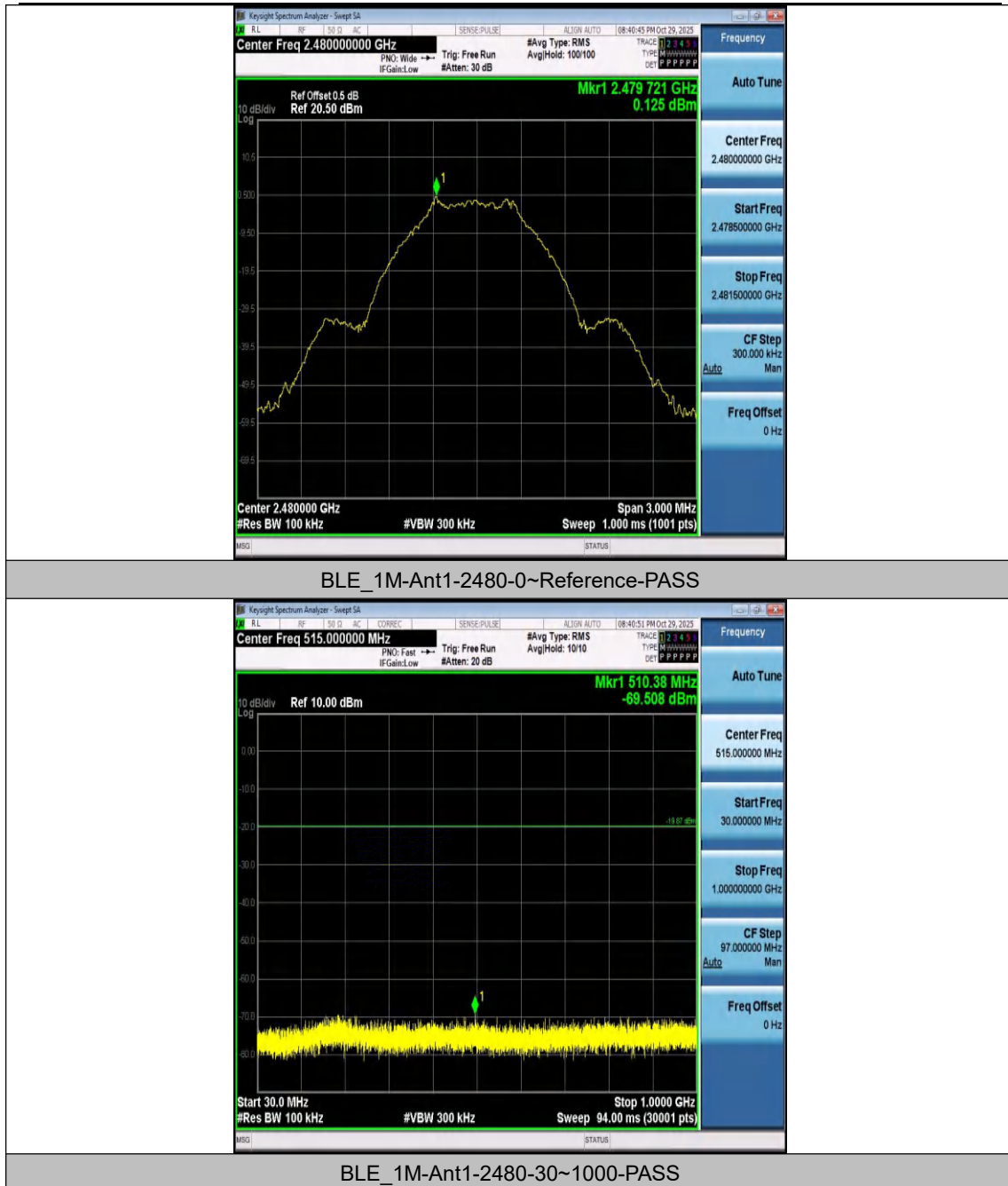
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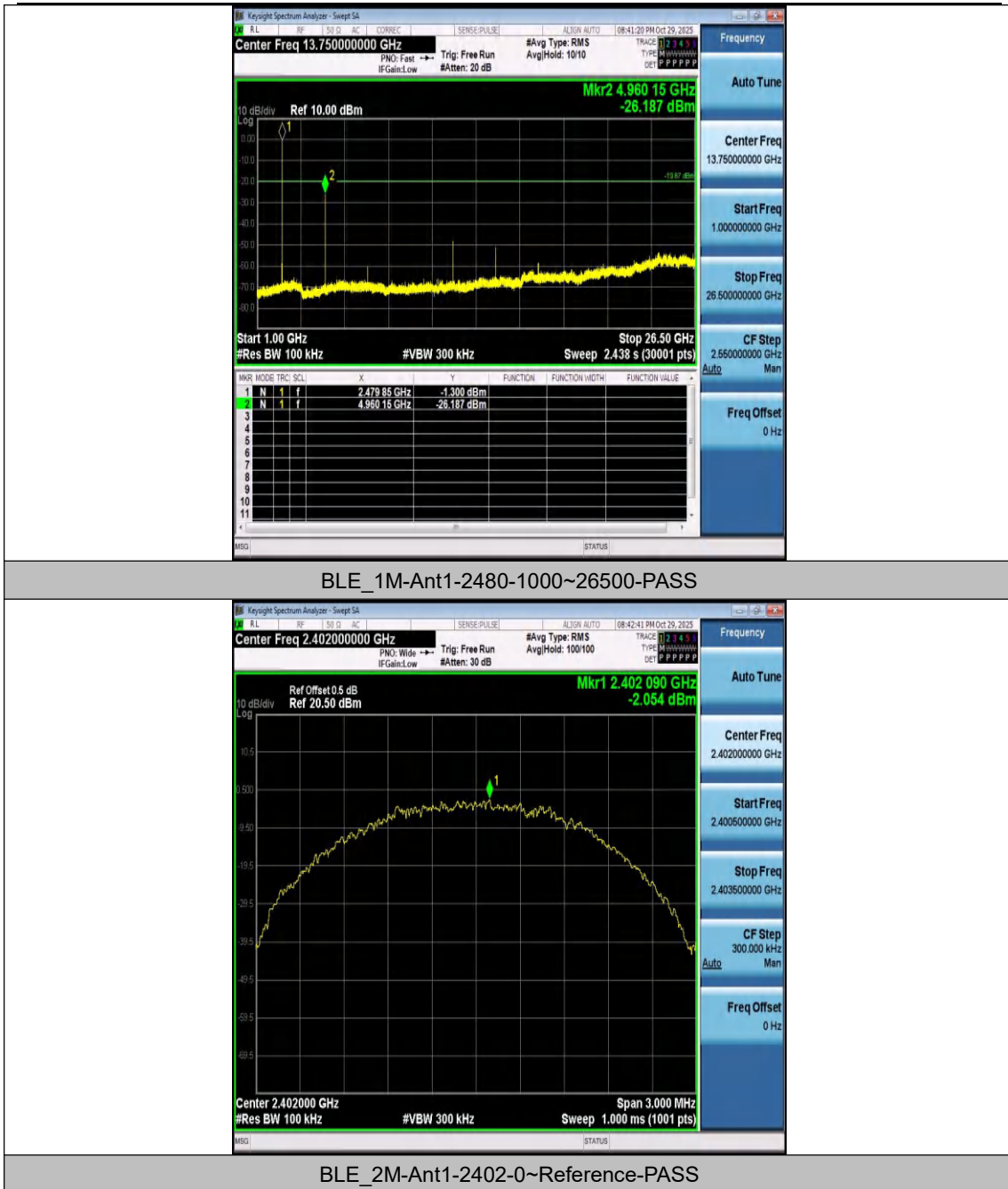
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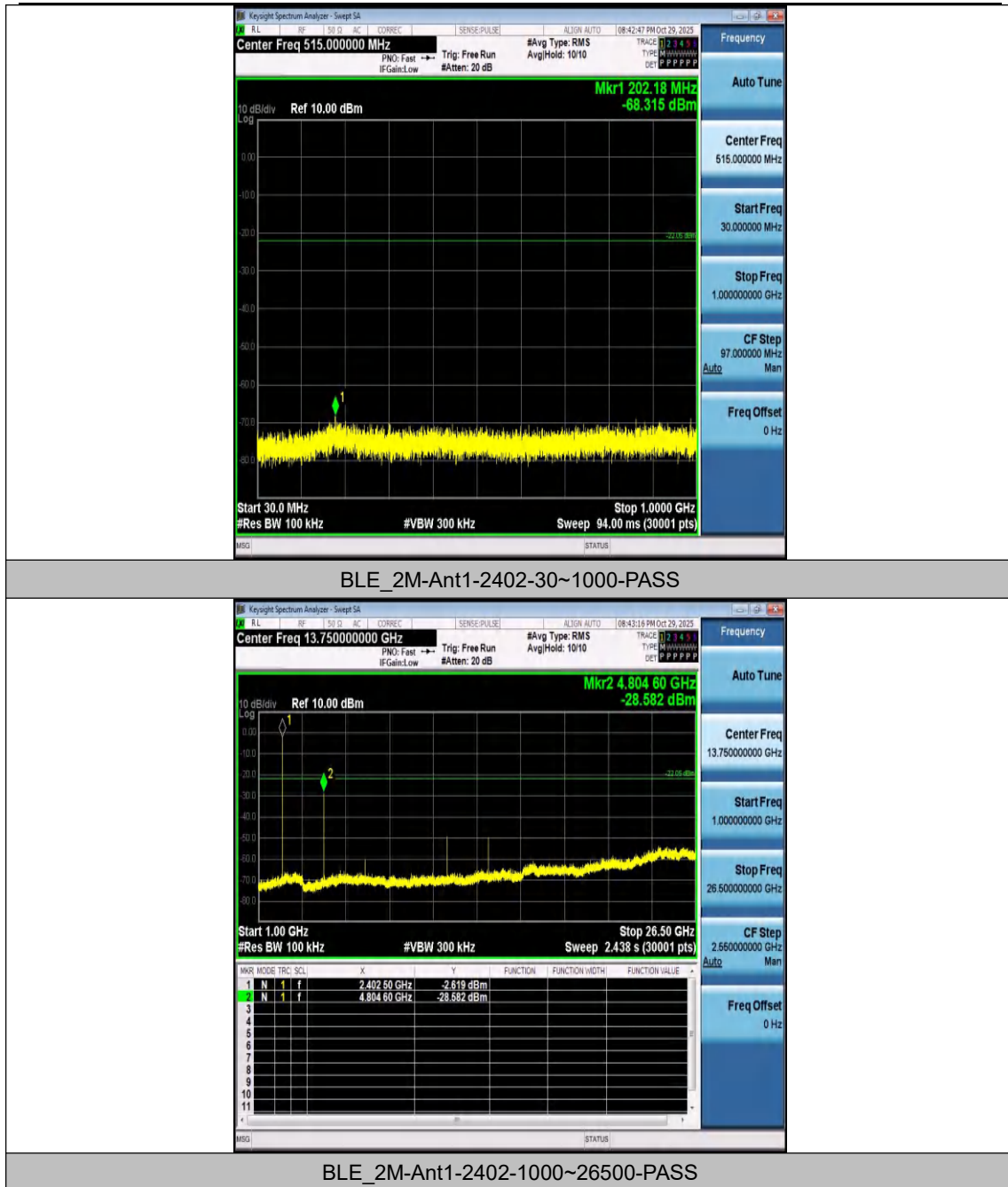
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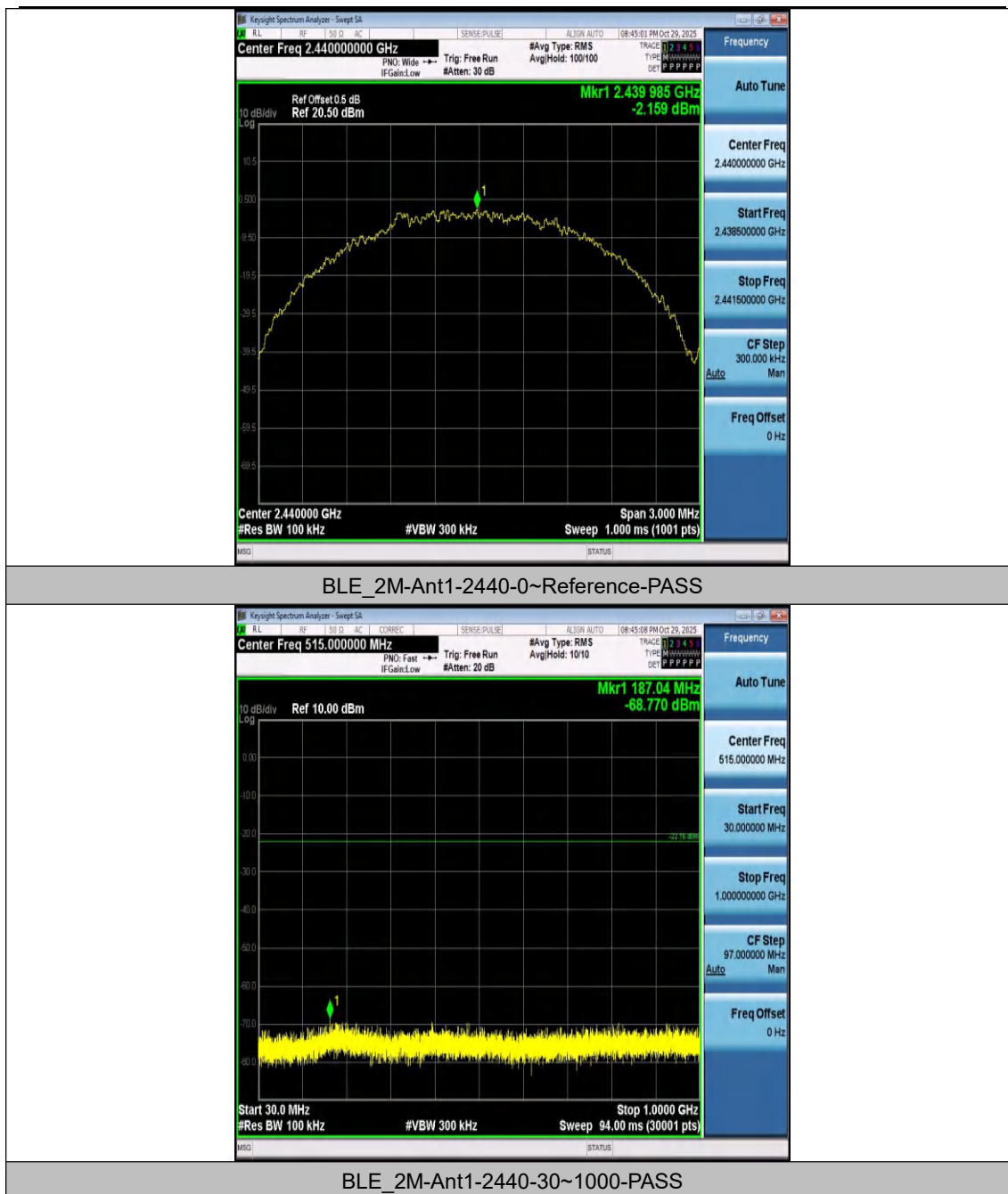
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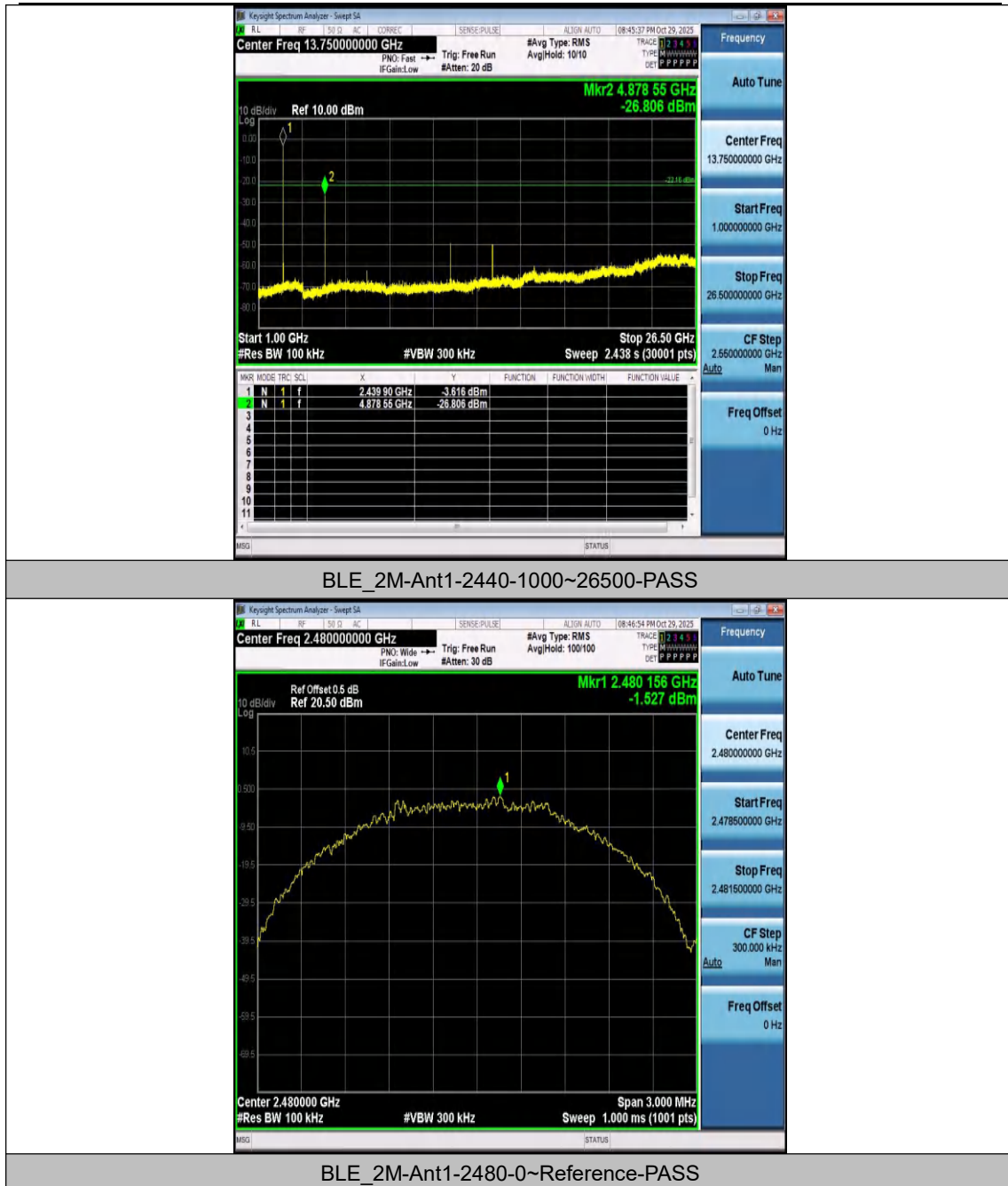
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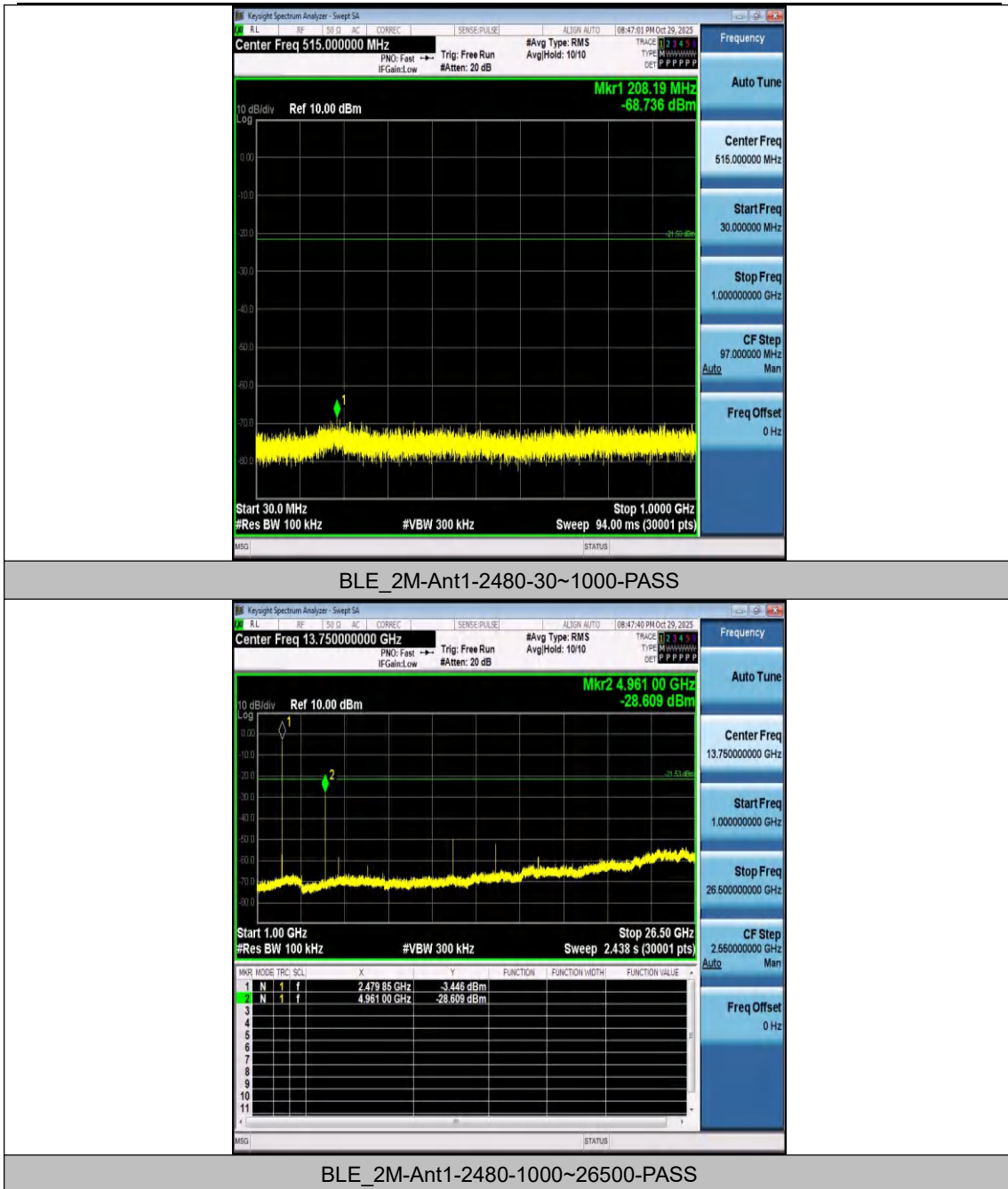
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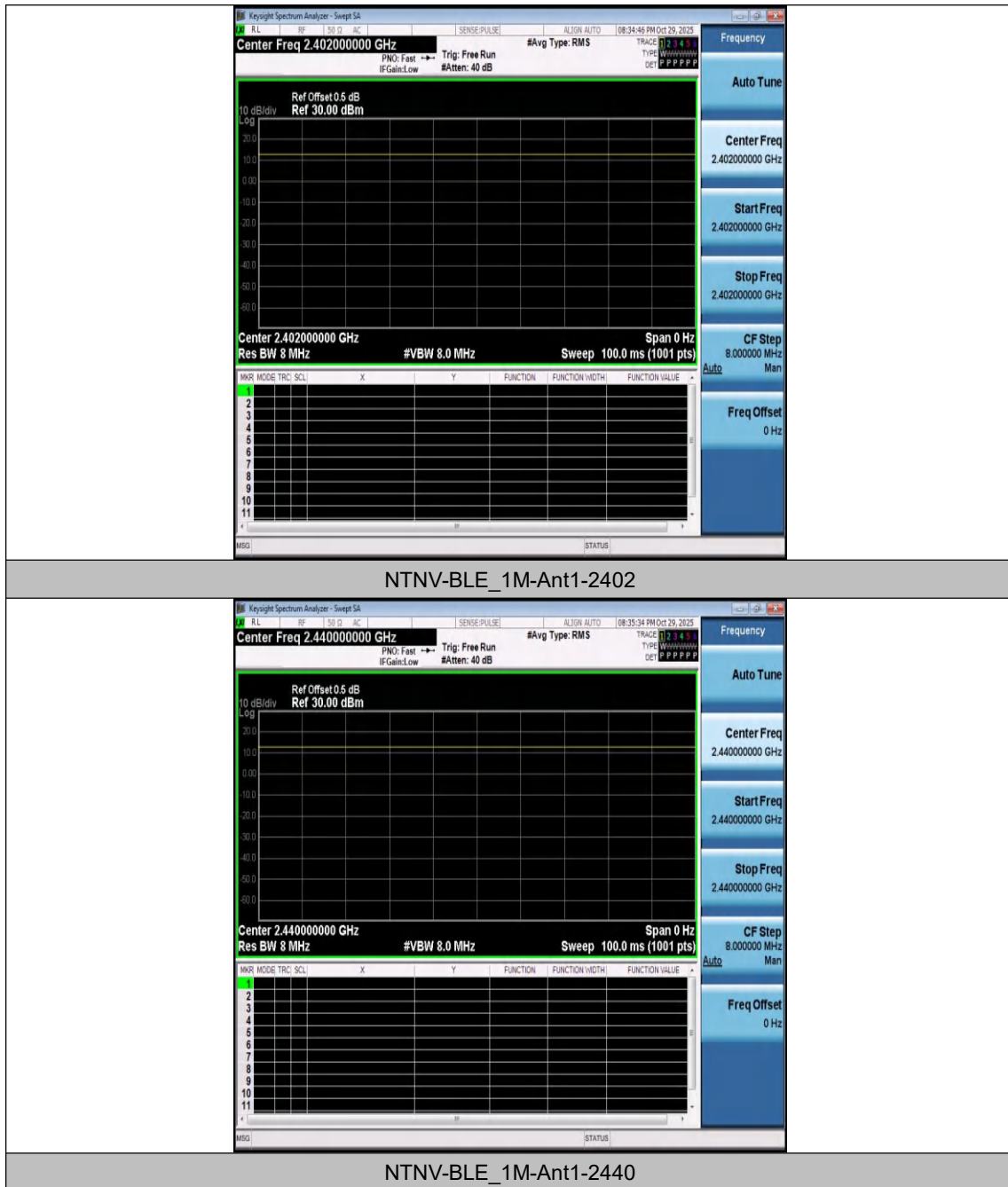
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Appendix G: Duty Cycle

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	2402	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2480	100.00	100.00	100.00	0.00

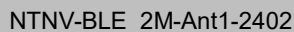
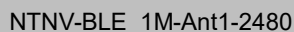
Test Graphs

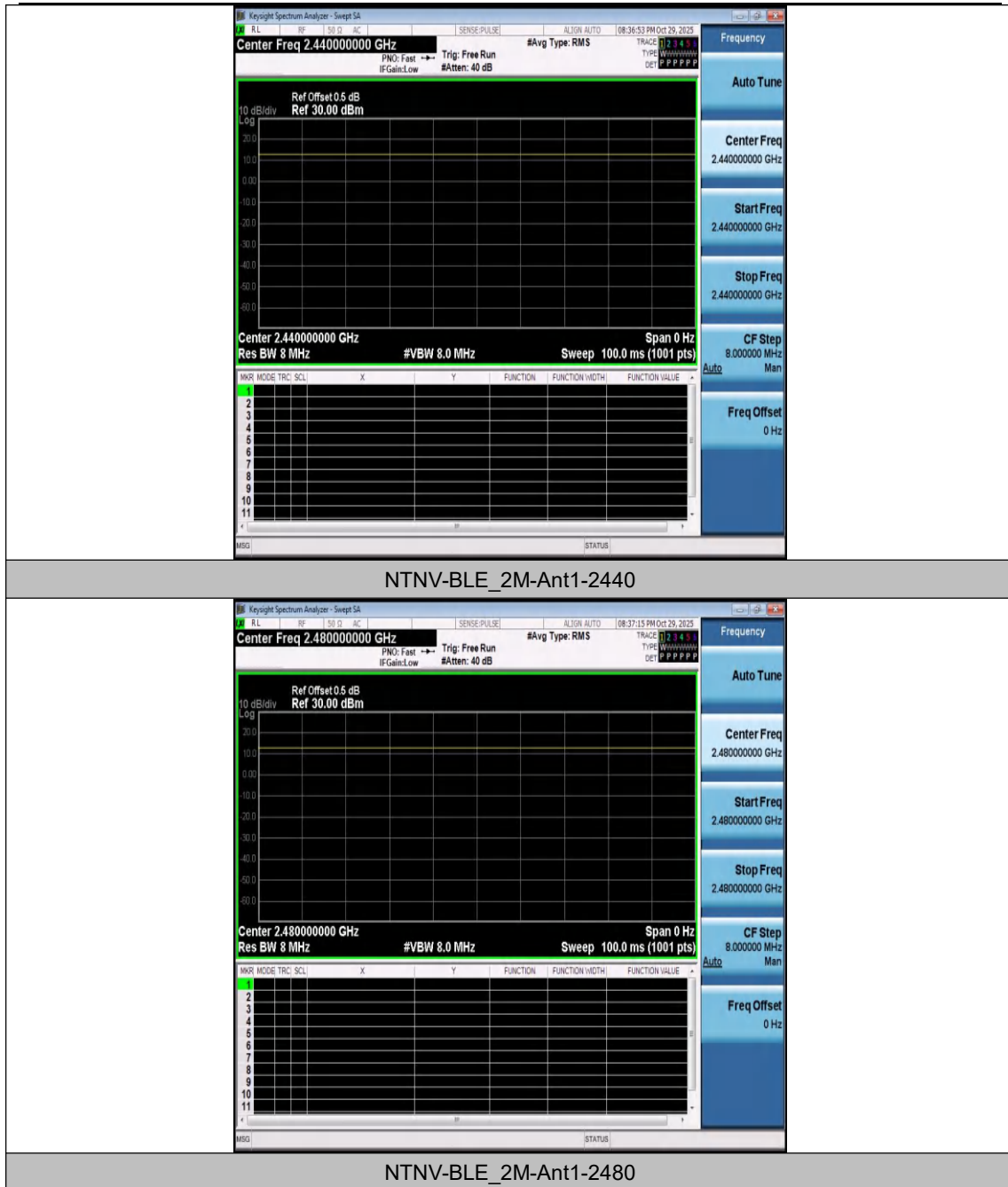


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