

Appendix Test Data

Report No.:	1818C50179912501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-19	Finish Test Date:	2025-10-20
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.7°C	Relative Humidity:	60%
Pressure:	101kPa		

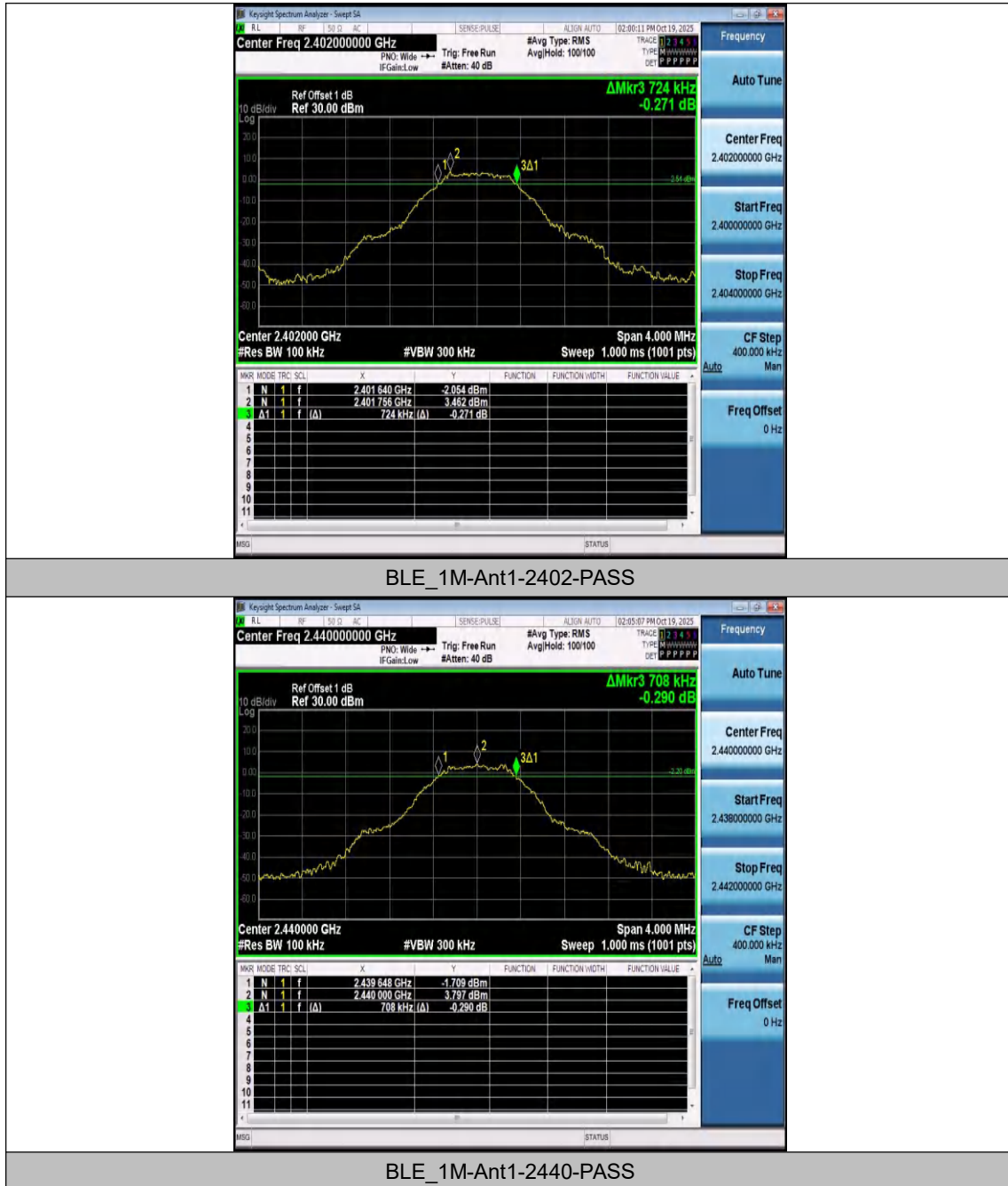


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.724	2401.640	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.648	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.664	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.360	2401.328	2402.688	0.5	PASS
BLE_2M	Ant1	2440	1.180	2439.412	2440.592	0.5	PASS
BLE_2M	Ant1	2480	1.156	2479.440	2480.596	0.5	PASS

Test Graphs



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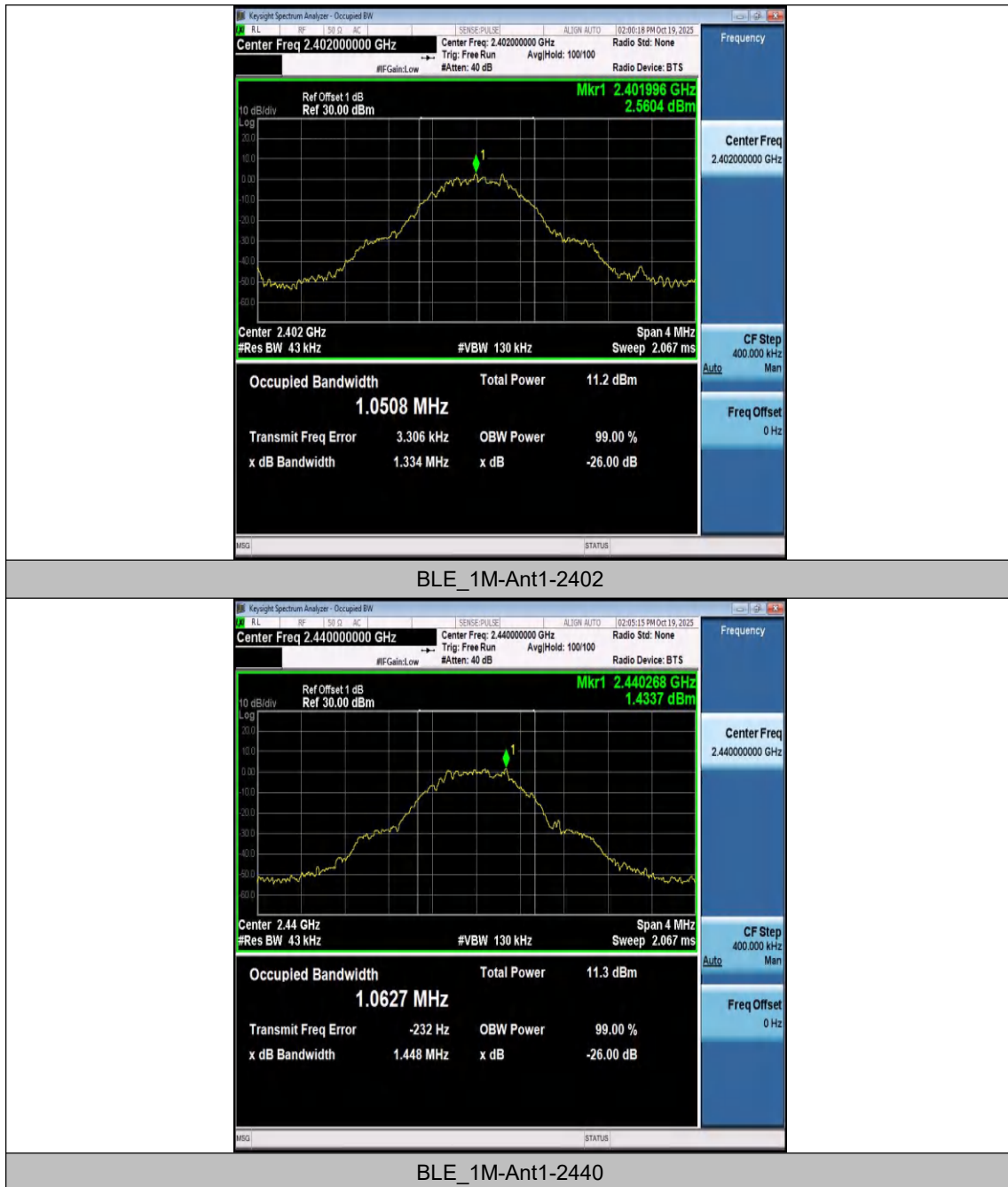
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0508	2401.4779	2402.5287	---	---
BLE_1M	Ant1	2440	1.0627	2439.4684	2440.5311	---	---
BLE_1M	Ant1	2480	1.0495	2479.4774	2480.5269	---	---
BLE_2M	Ant1	2402	2.0653	2400.9908	2403.0561	---	---
BLE_2M	Ant1	2440	2.0580	2438.9936	2441.0516	---	---
BLE_2M	Ant1	2480	2.0582	2478.9832	2481.0414	---	---

Test Graphs



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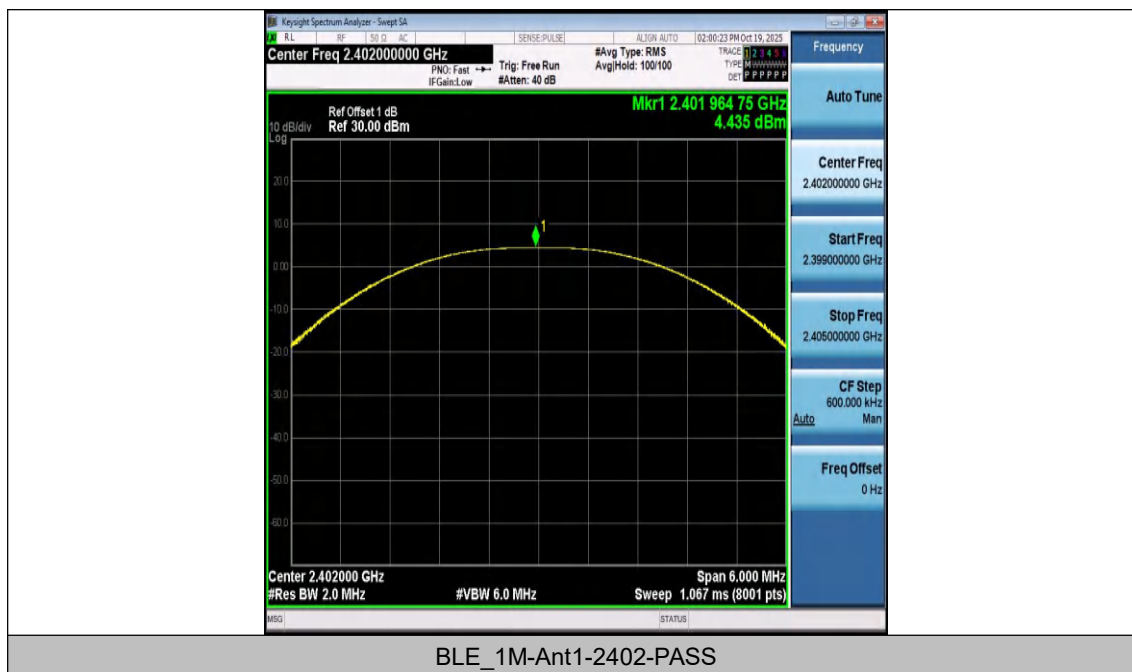
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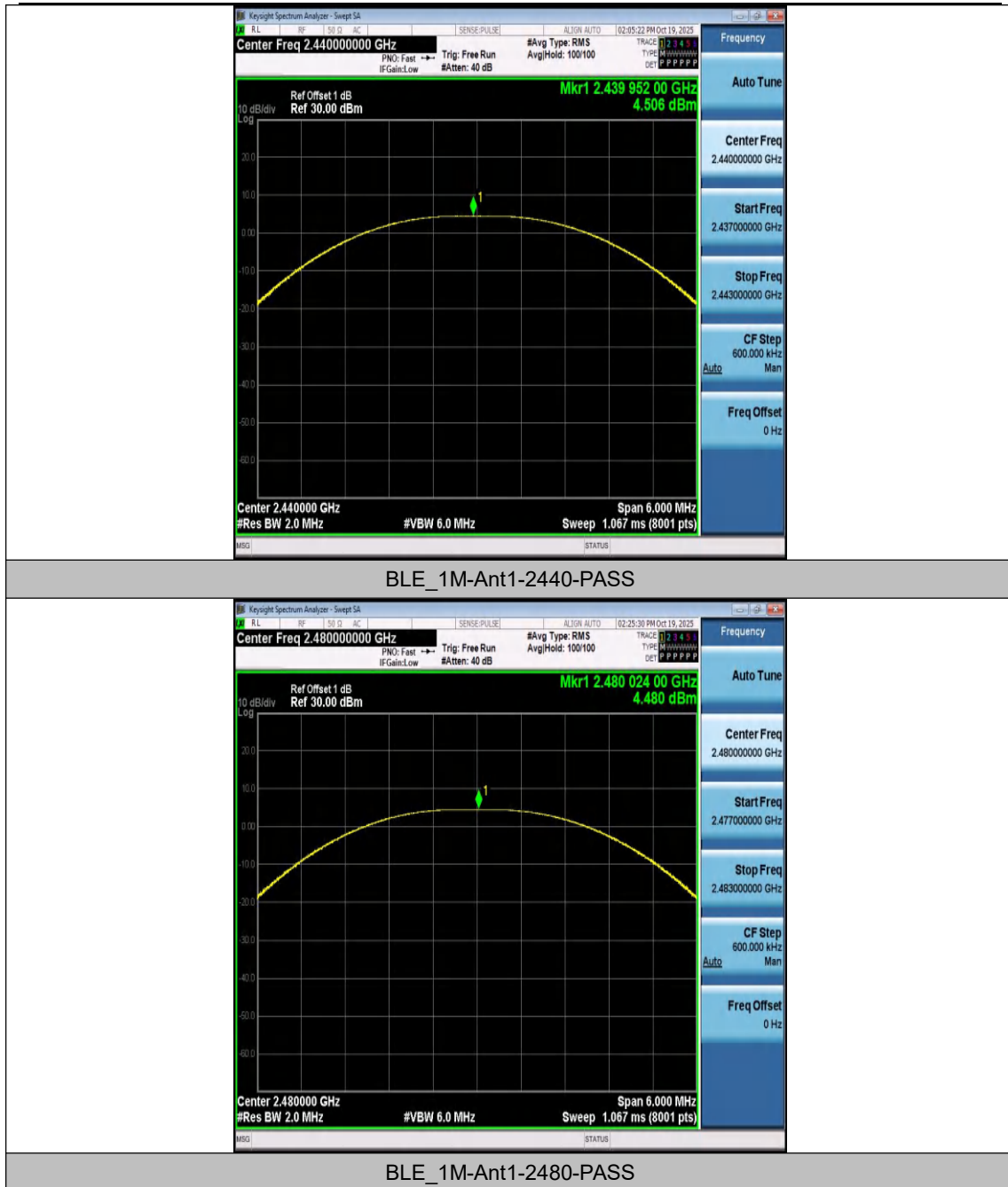
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.44	≤30	PASS
BLE_1M	Ant1	2440	4.51	≤30	PASS
BLE_1M	Ant1	2480	4.48	≤30	PASS
BLE_2M	Ant1	2402	4.51	≤30	PASS
BLE_2M	Ant1	2440	4.61	≤30	PASS
BLE_2M	Ant1	2480	4.58	≤30	PASS

Test Graphs Peak

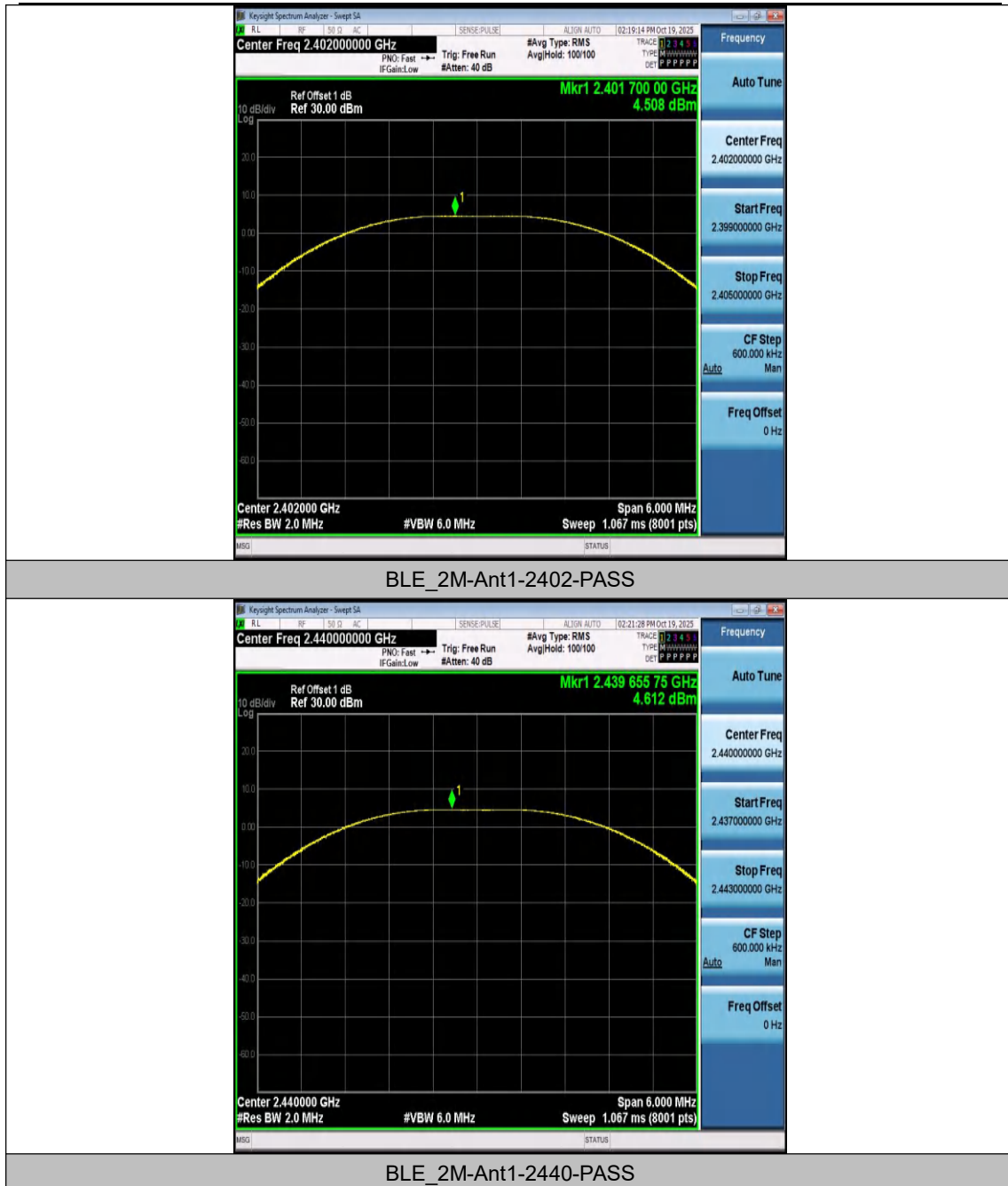




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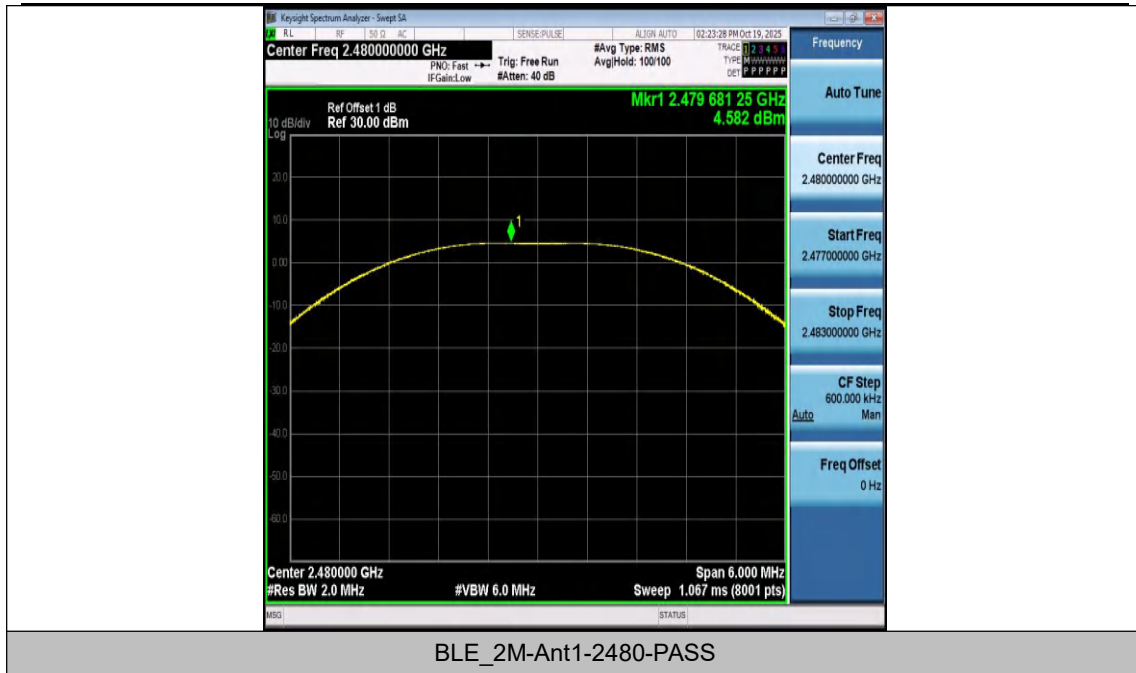
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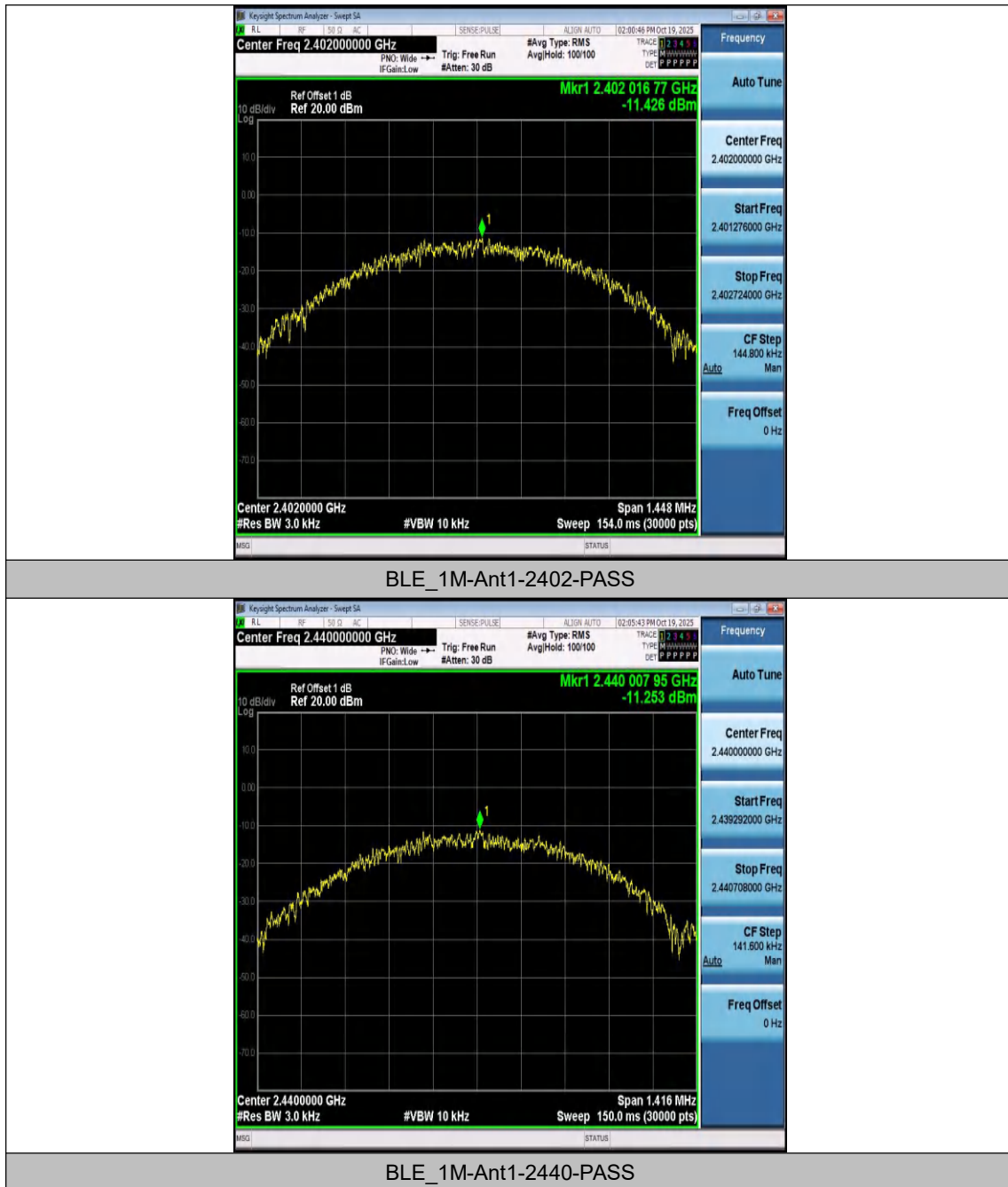
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.43	≤8.00	PASS
BLE_1M	Ant1	2440	-11.25	≤8.00	PASS
BLE_1M	Ant1	2480	-11.73	≤8.00	PASS
BLE_2M	Ant1	2402	-13.29	≤8.00	PASS
BLE_2M	Ant1	2440	-13.10	≤8.00	PASS
BLE_2M	Ant1	2480	-13.49	≤8.00	PASS

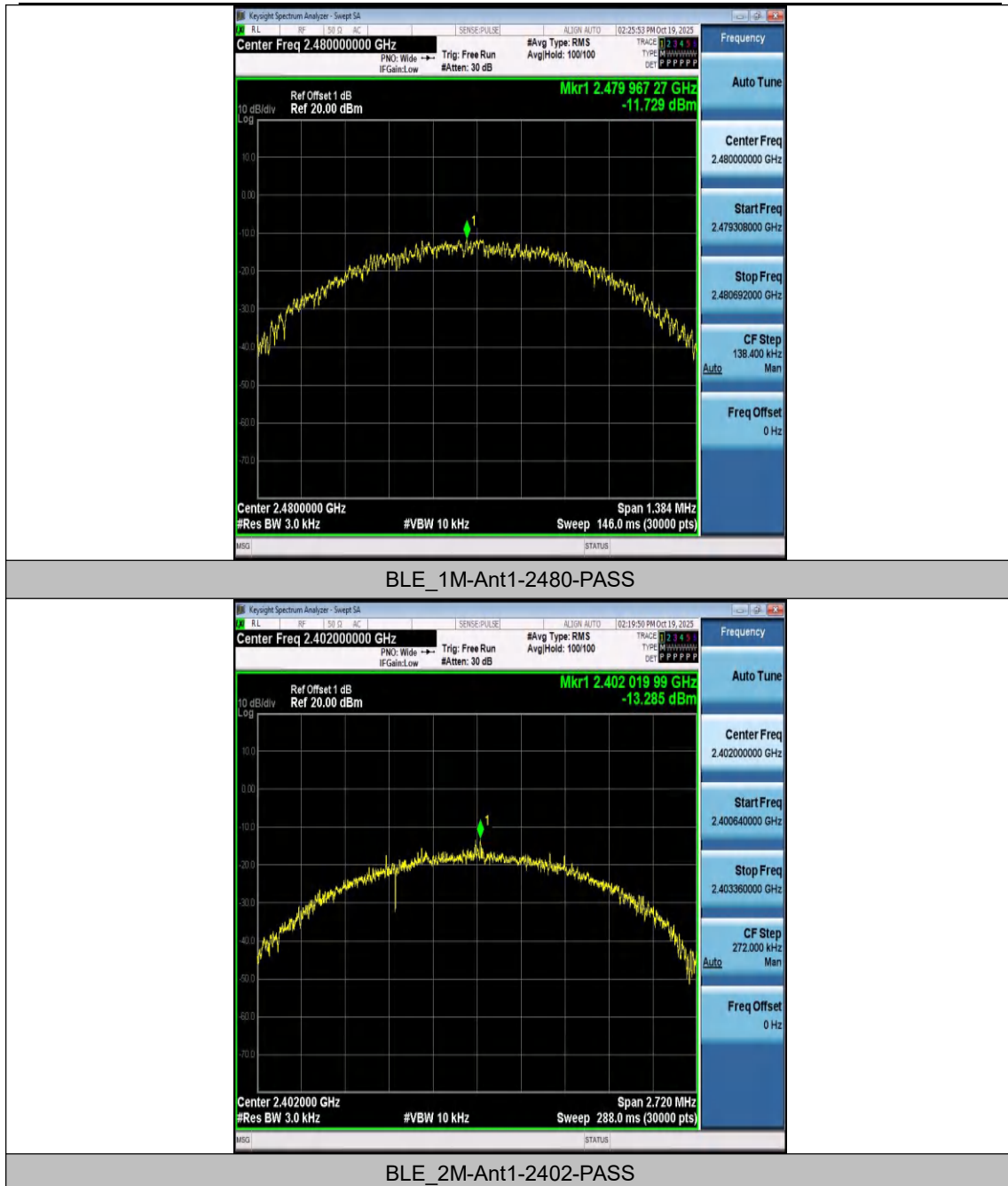
Test Graphs



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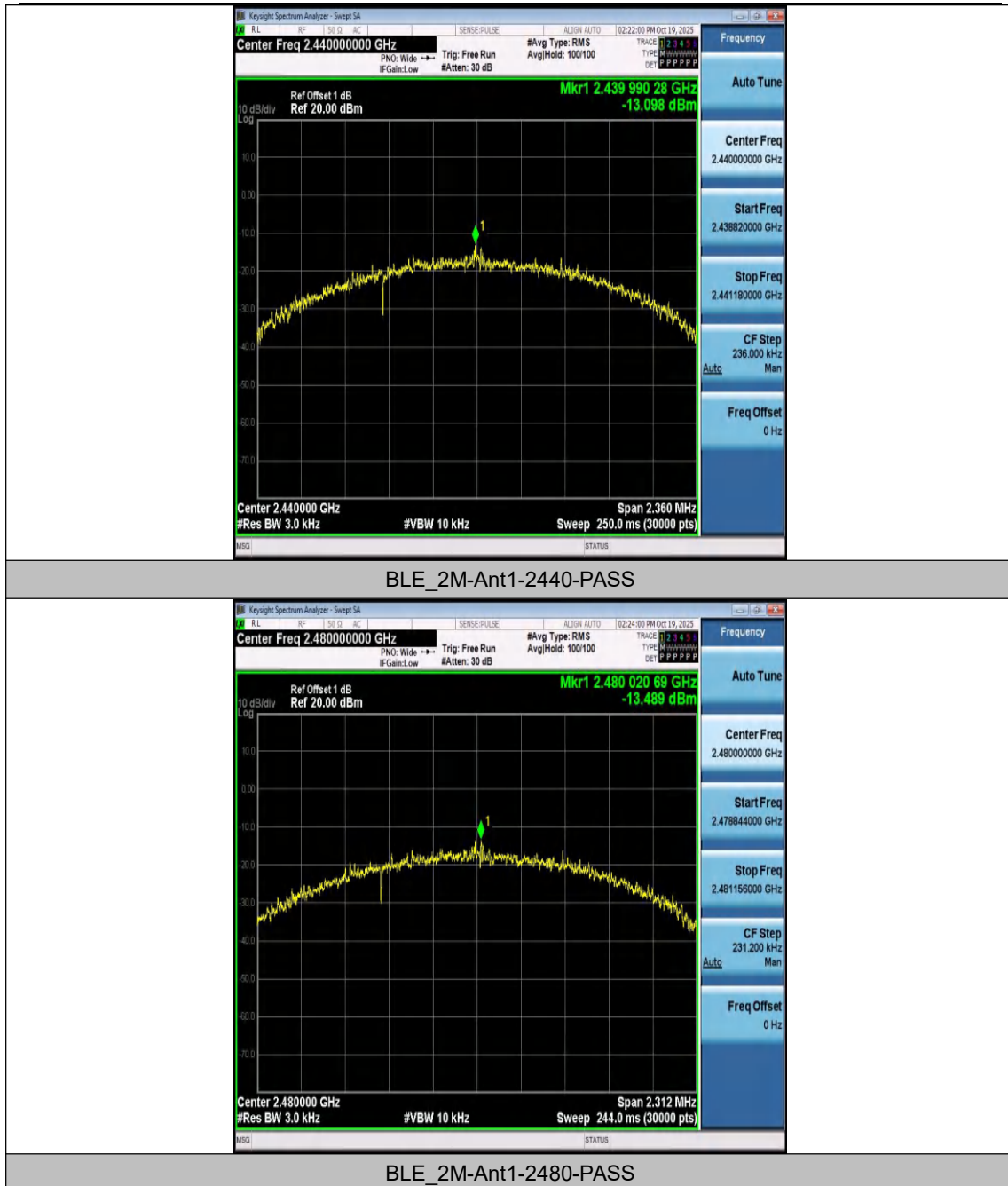
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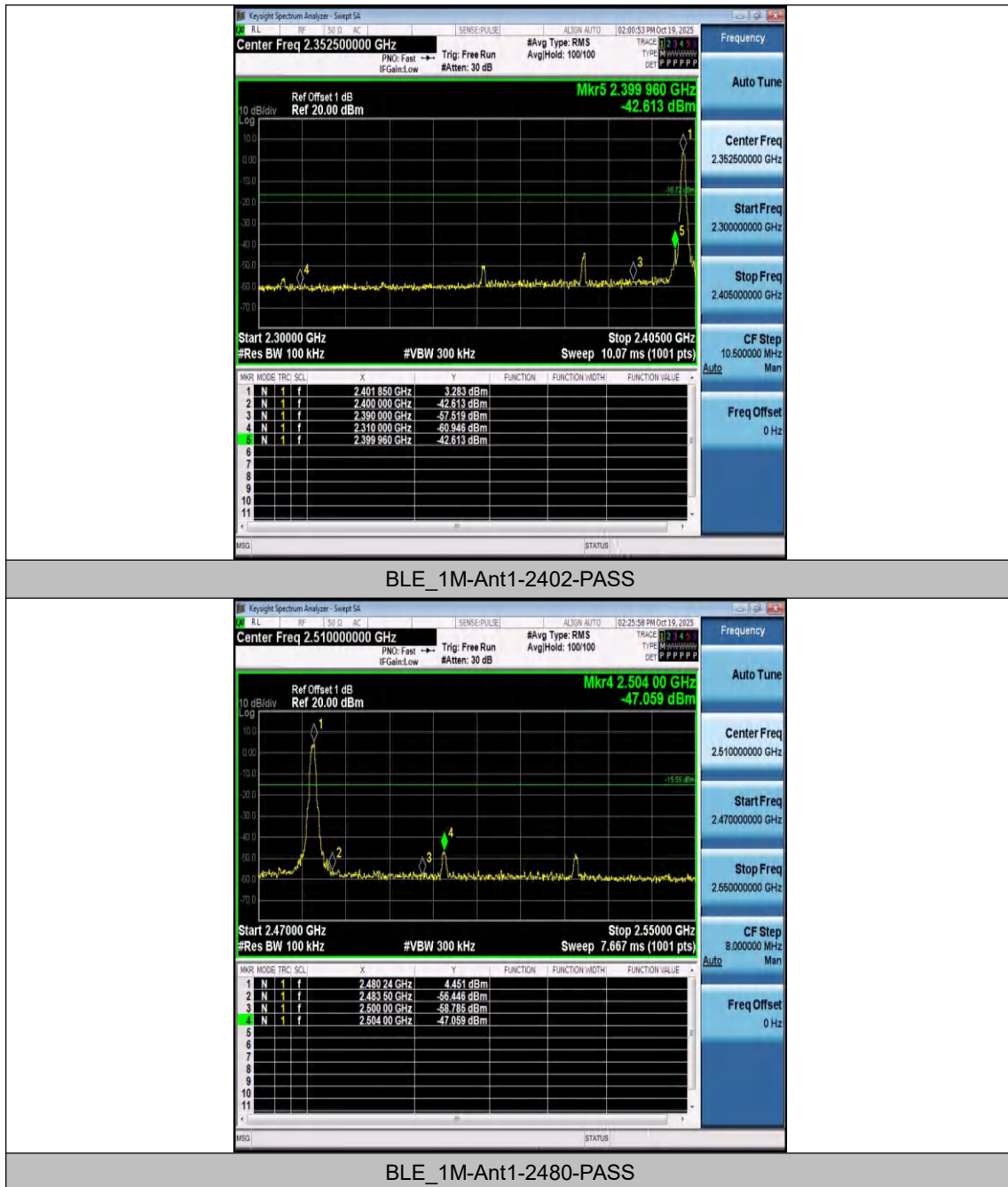
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.28	-42.61	≤-16.72	PASS
BLE_1M	Ant1	High	2480	4.45	-47.06	≤-15.55	PASS
BLE_2M	Ant1	Low	2402	3.56	-31.33	≤-16.45	PASS
BLE_2M	Ant1	High	2480	2.12	-46.32	≤-17.88	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.

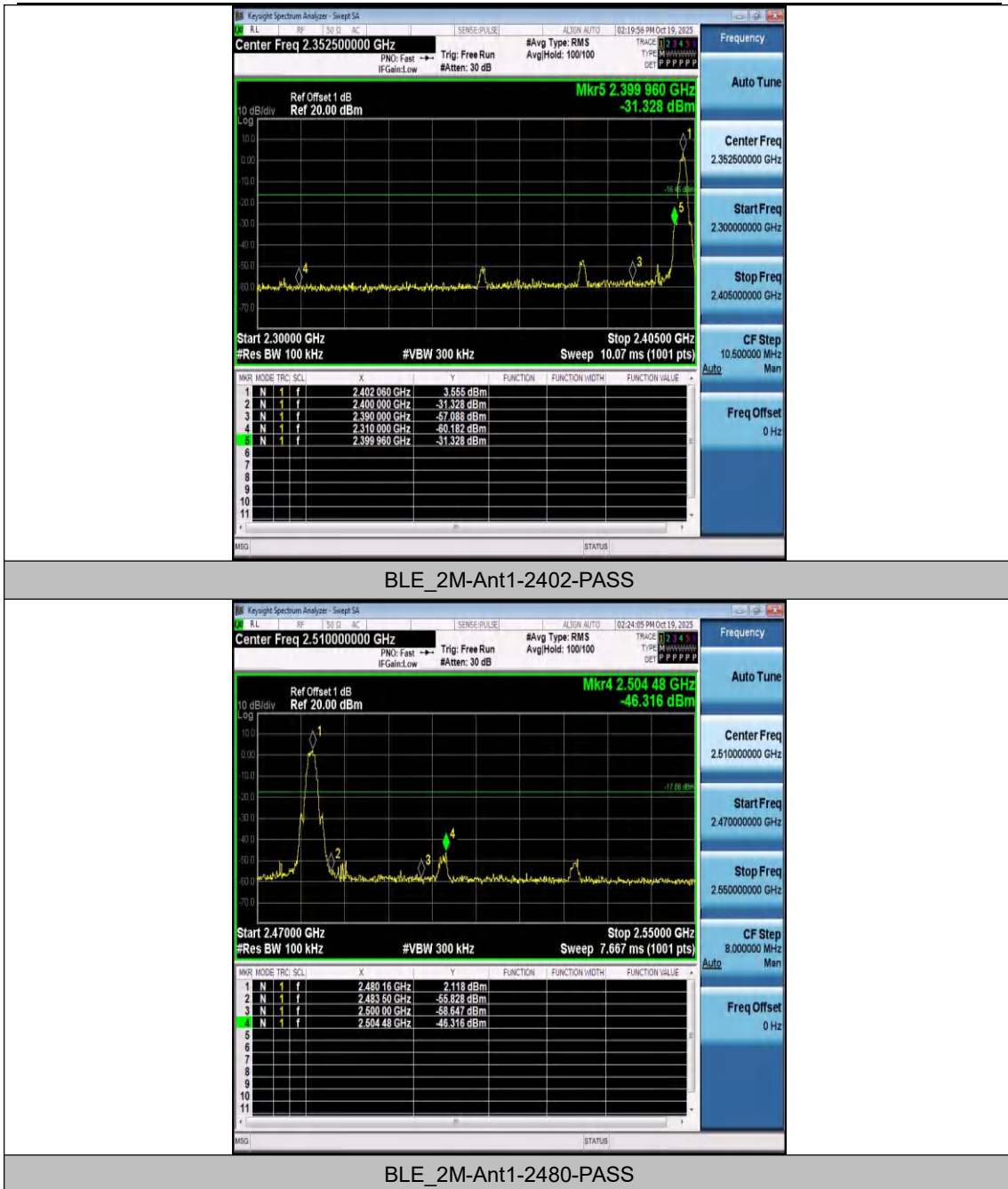
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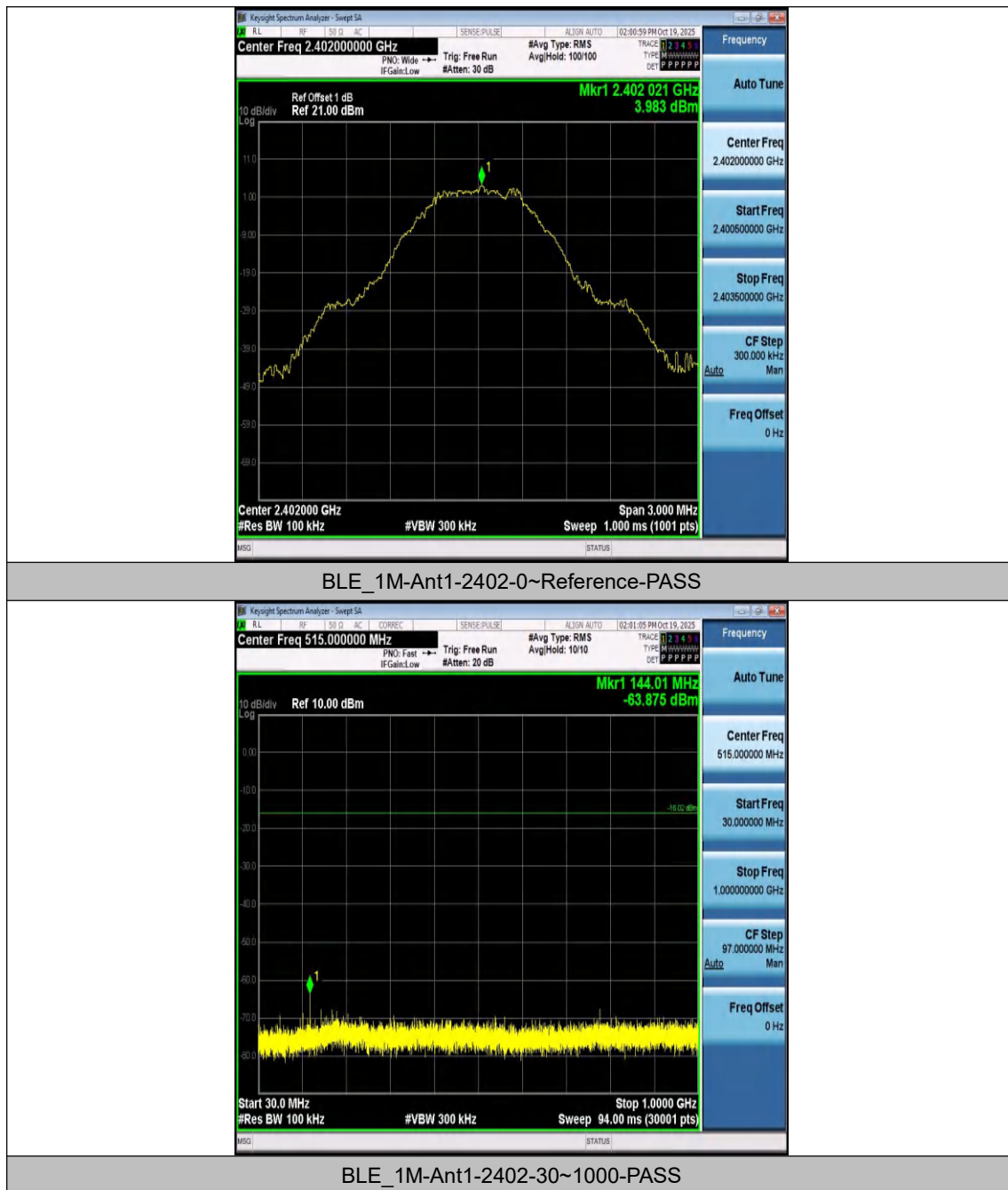
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.98	3.98	---	PASS
BLE_1M	Ant1	2402	30~1000	3.98	-63.88	≤-16.02	PASS
BLE_1M	Ant1	2402	1000~26500	3.98	-41.85	≤-16.02	PASS
BLE_1M	Ant1	2440	0~Reference	4.00	4.00	---	PASS
BLE_1M	Ant1	2440	30~1000	4.00	-63.58	≤-16	PASS
BLE_1M	Ant1	2440	1000~26500	4.00	-43.3	≤-16	PASS
BLE_1M	Ant1	2480	0~Reference	4.36	4.36	---	PASS
BLE_1M	Ant1	2480	30~1000	4.36	-62.19	≤-15.64	PASS
BLE_1M	Ant1	2480	1000~26500	4.36	-44.54	≤-15.64	PASS
BLE_2M	Ant1	2402	0~Reference	3.86	3.86	---	PASS
BLE_2M	Ant1	2402	30~1000	3.86	-63.56	≤-16.14	PASS
BLE_2M	Ant1	2402	1000~26500	3.86	-42.92	≤-16.14	PASS
BLE_2M	Ant1	2440	0~Reference	3.87	3.87	---	PASS
BLE_2M	Ant1	2440	30~1000	3.87	-61.65	≤-16.13	PASS
BLE_2M	Ant1	2440	1000~26500	3.87	-38.87	≤-16.13	PASS
BLE_2M	Ant1	2480	0~Reference	4.23	4.23	---	PASS
BLE_2M	Ant1	2480	30~1000	4.23	-62.75	≤-15.77	PASS
BLE_2M	Ant1	2480	1000~26500	4.23	-45.8	≤-15.77	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.

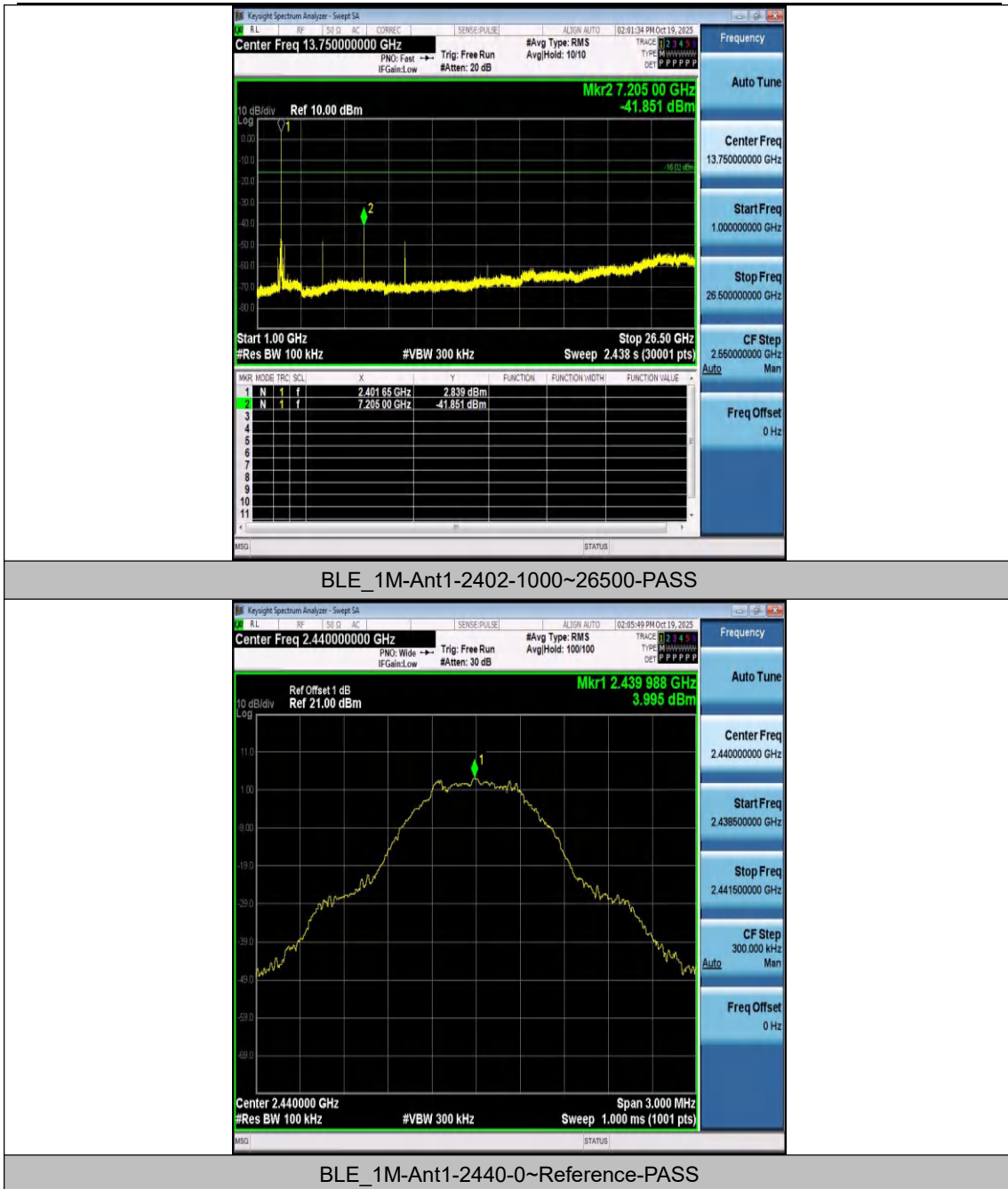
Test Graphs



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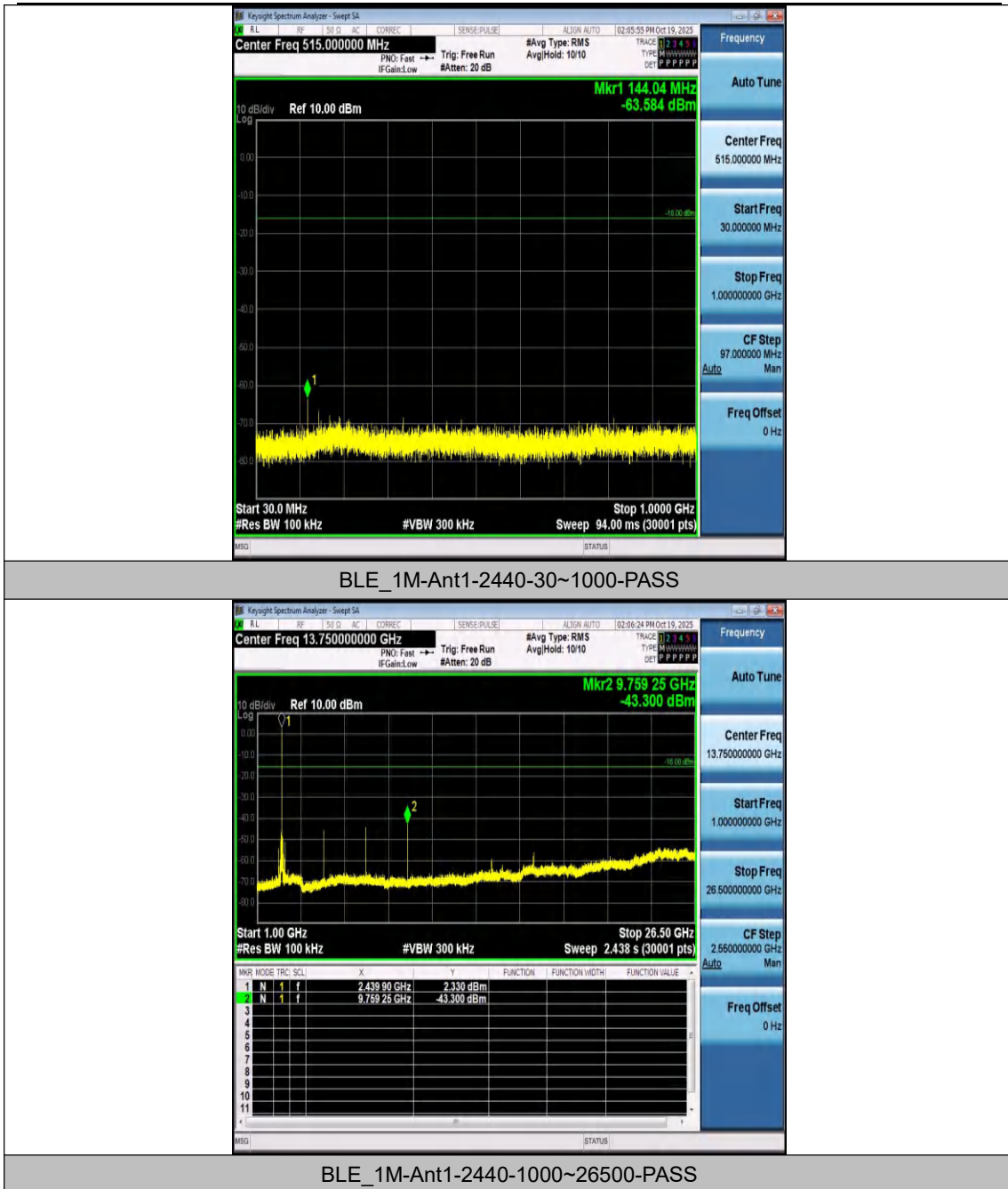
BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS

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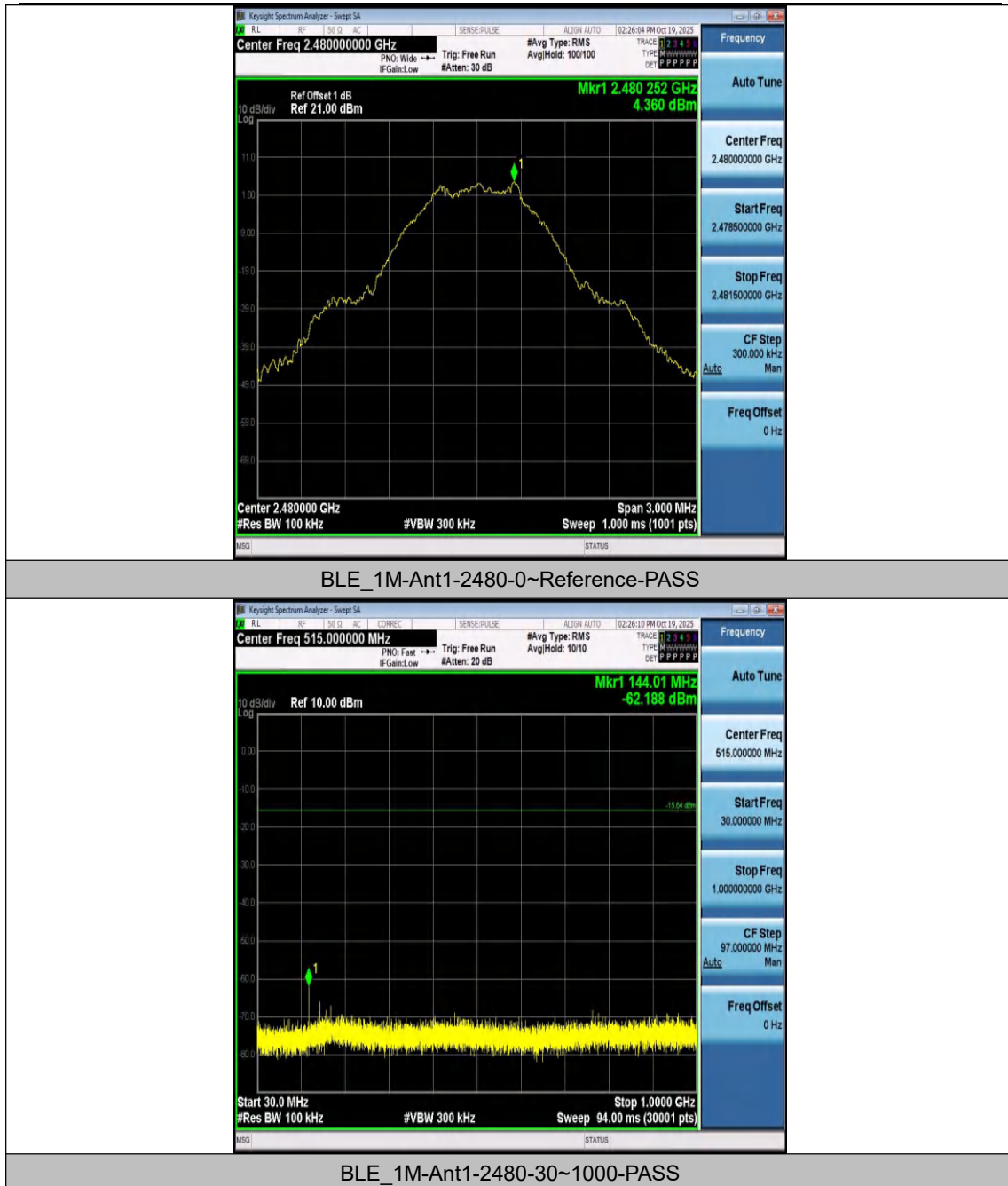
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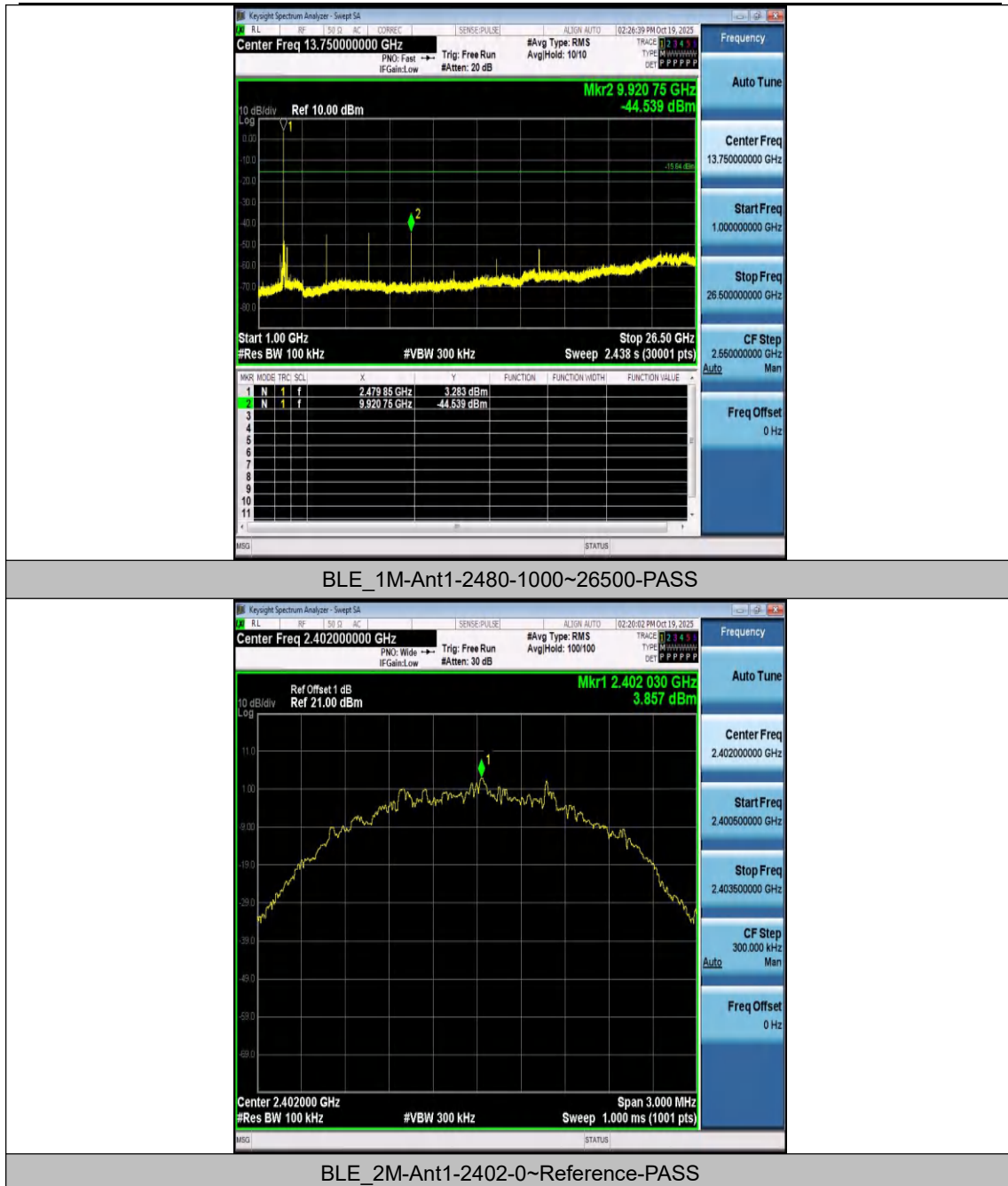
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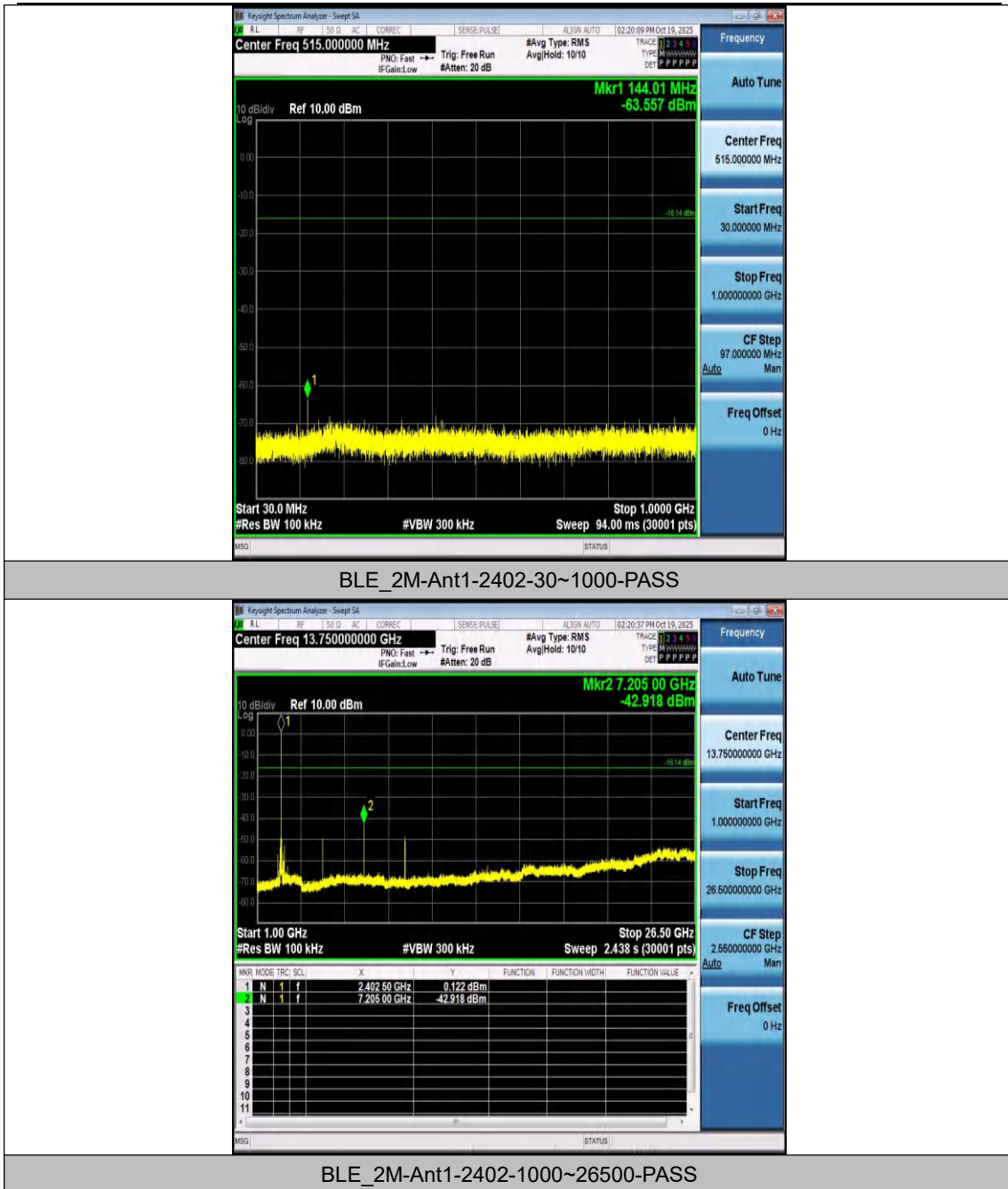
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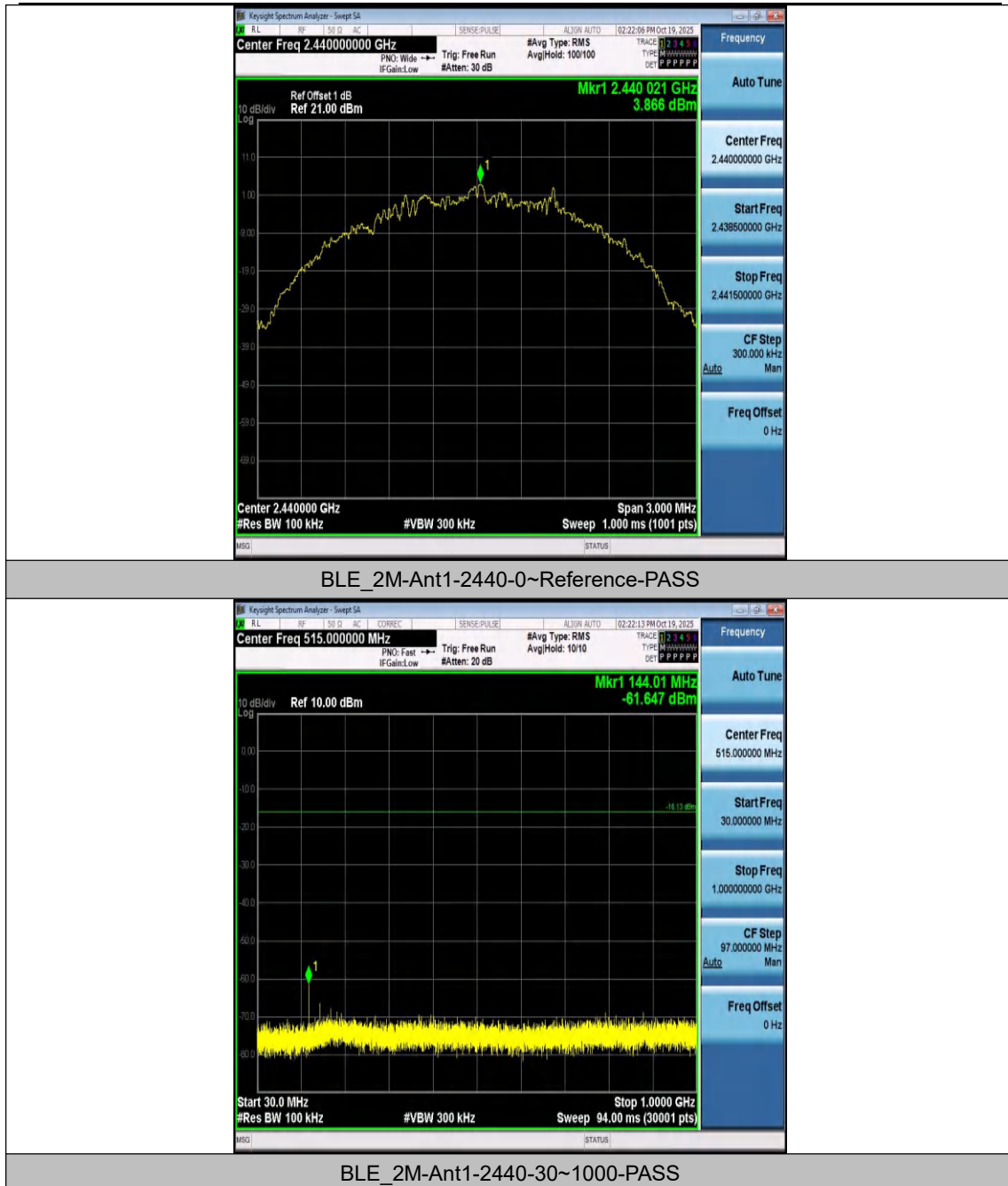
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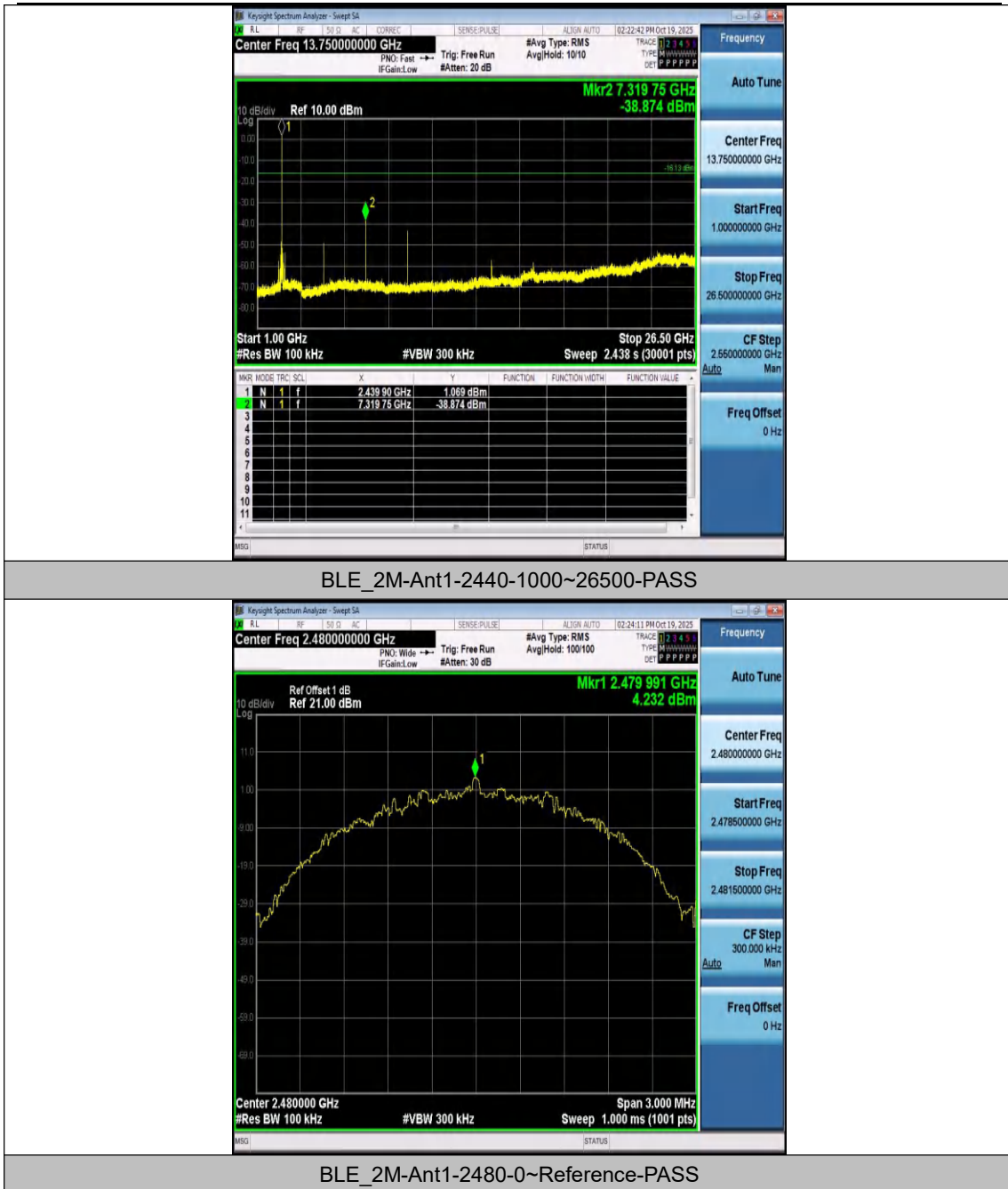
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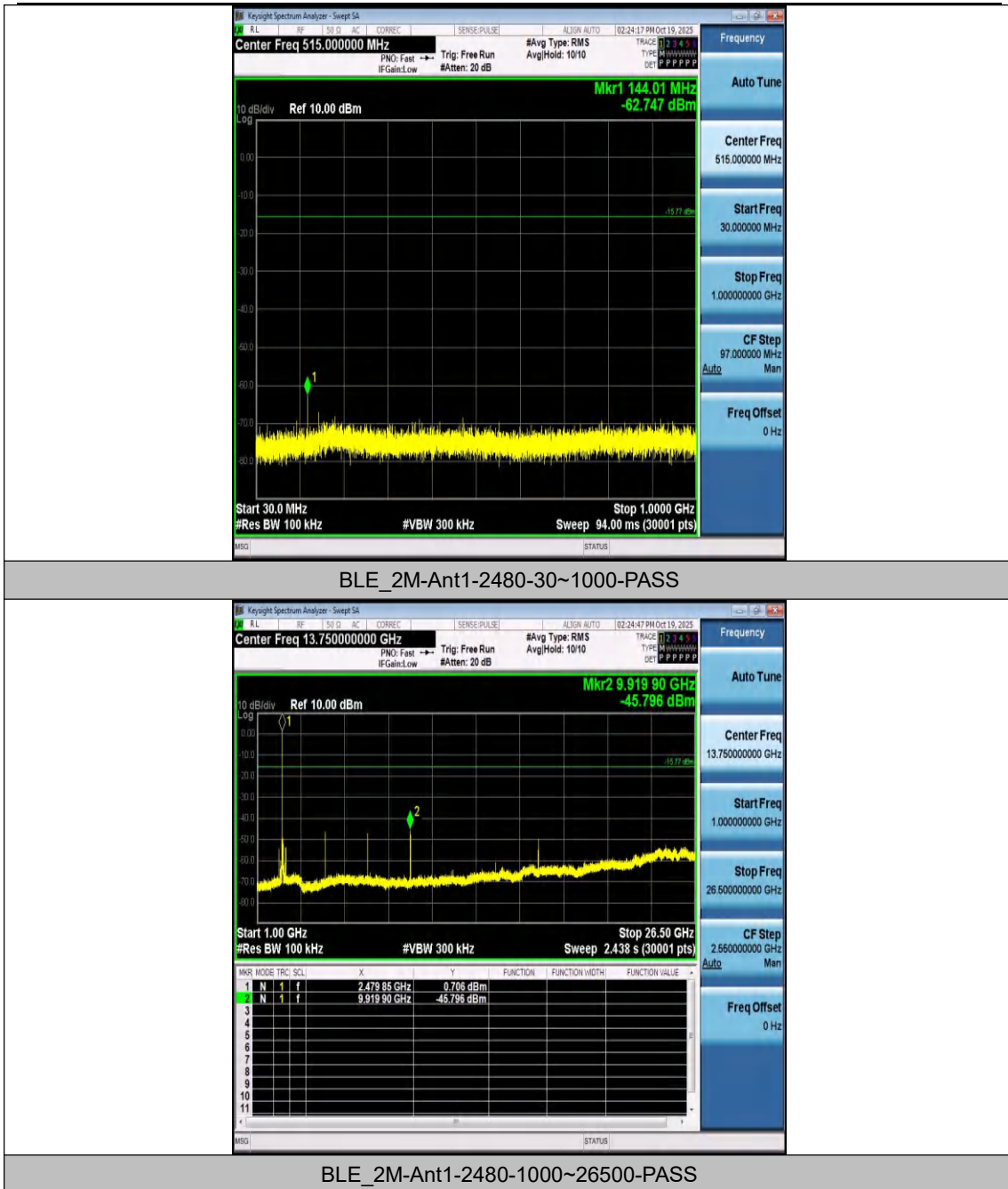
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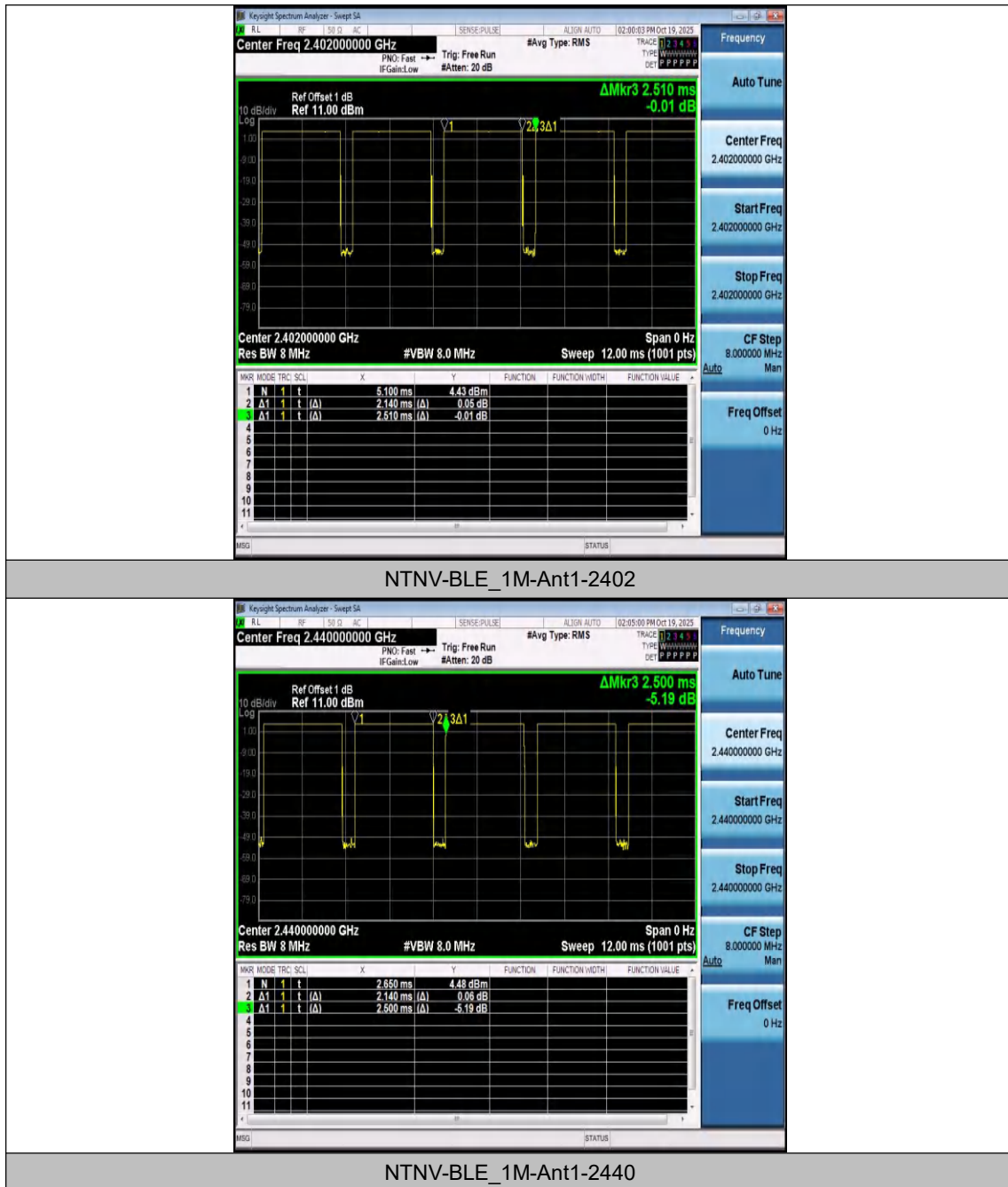
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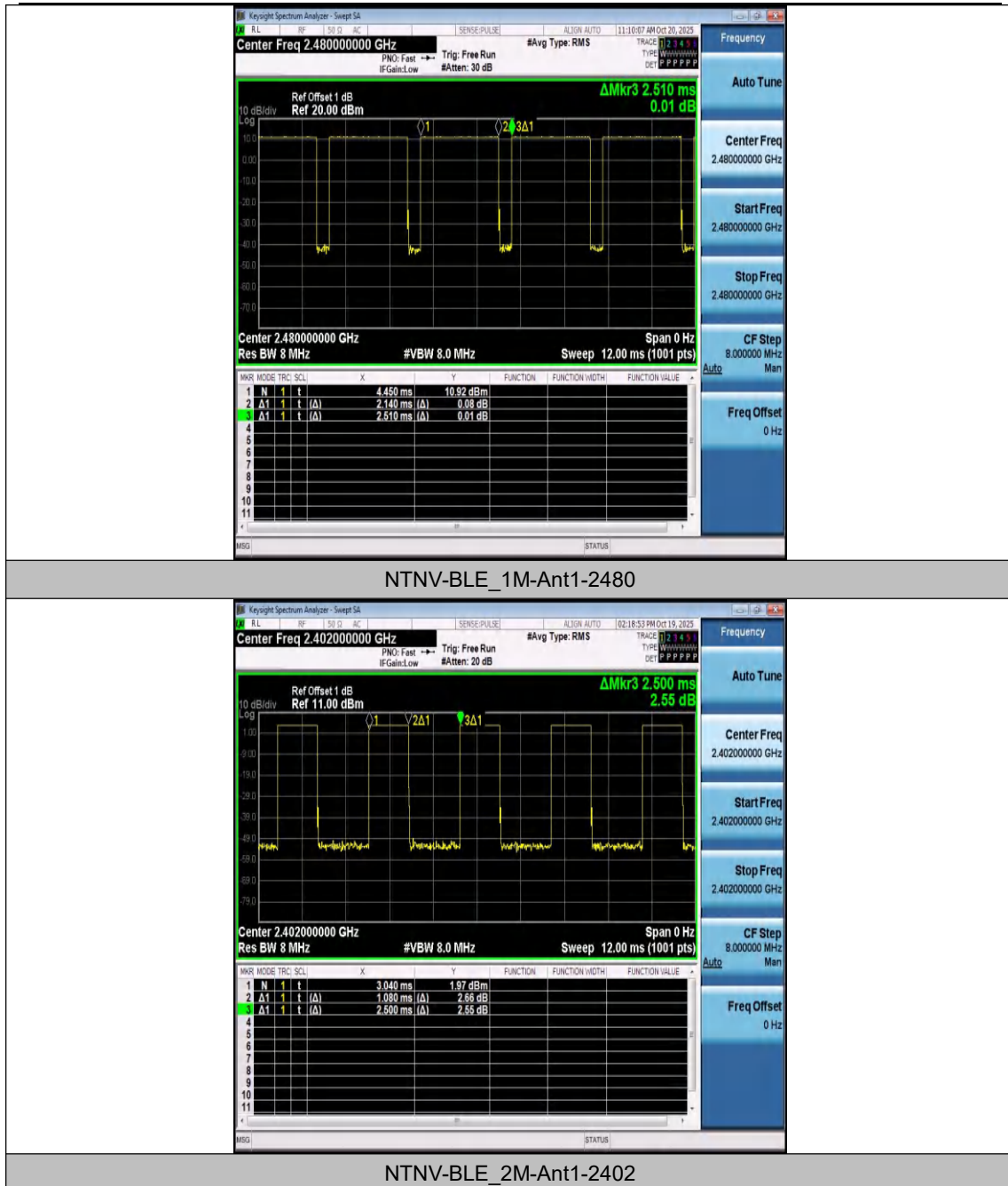
Appendix G: Duty Cycle

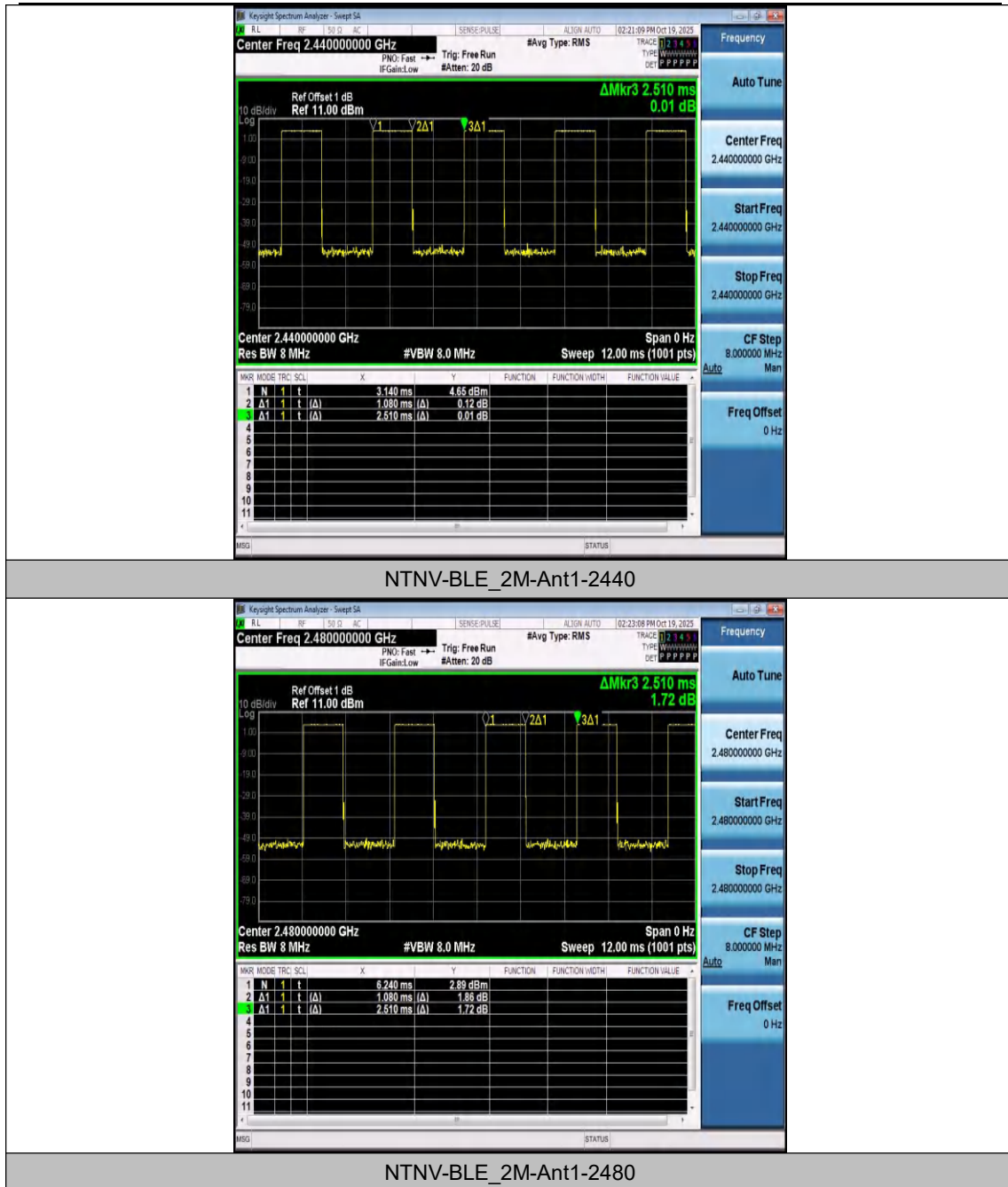
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.51	85.26	0.69
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.51	43.03	3.66
BLE_2M	Ant1	2480	1.08	2.51	43.03	3.66

Test Graphs







---End---