

Appendix Test Data

Report No.:	1812C50192012502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-07	Finish Test Date:	2025-05-07
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	Relative Humidity:	51%
Pressure:	101kPa		

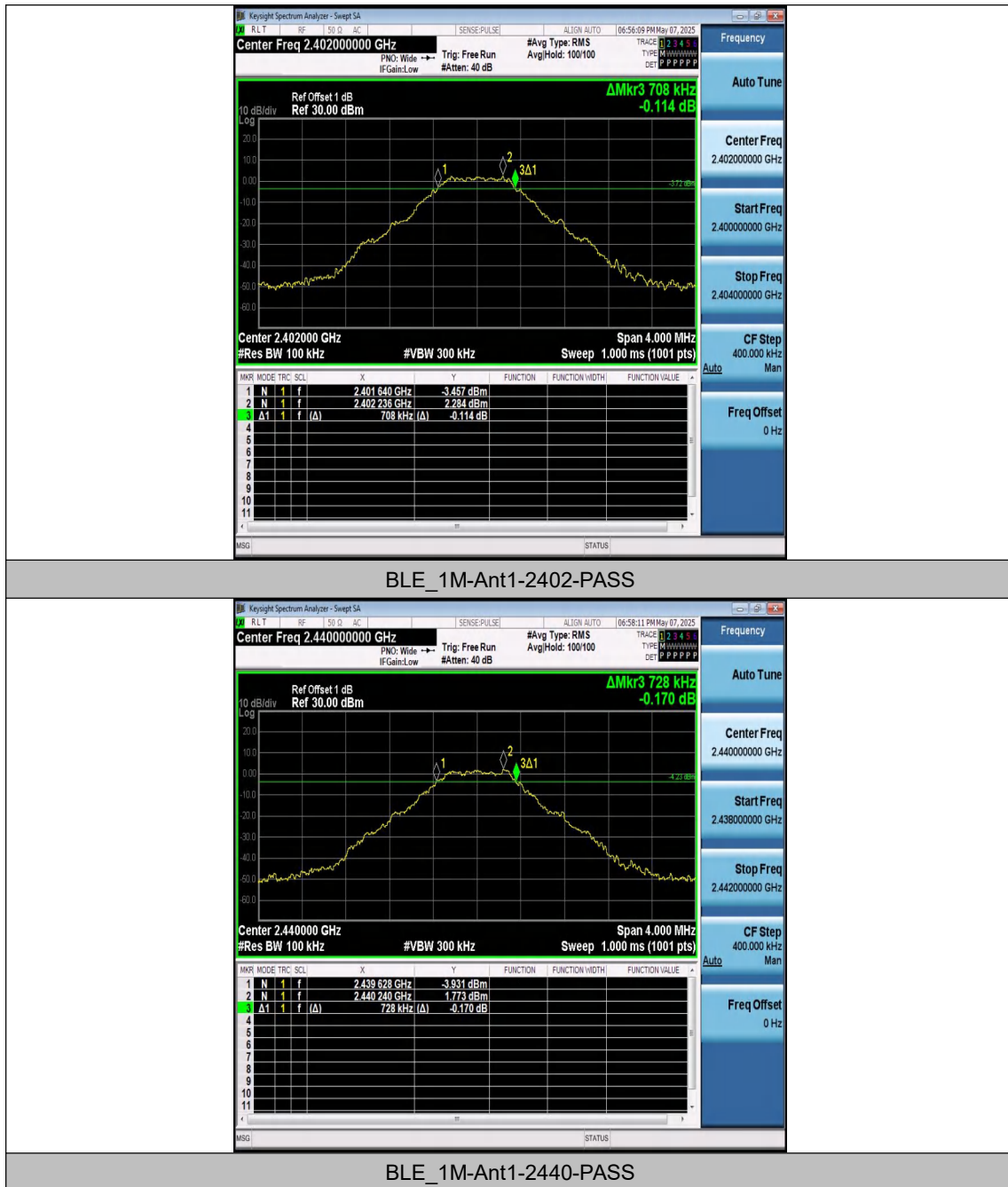
Appendix A: 6dB Bandwidth

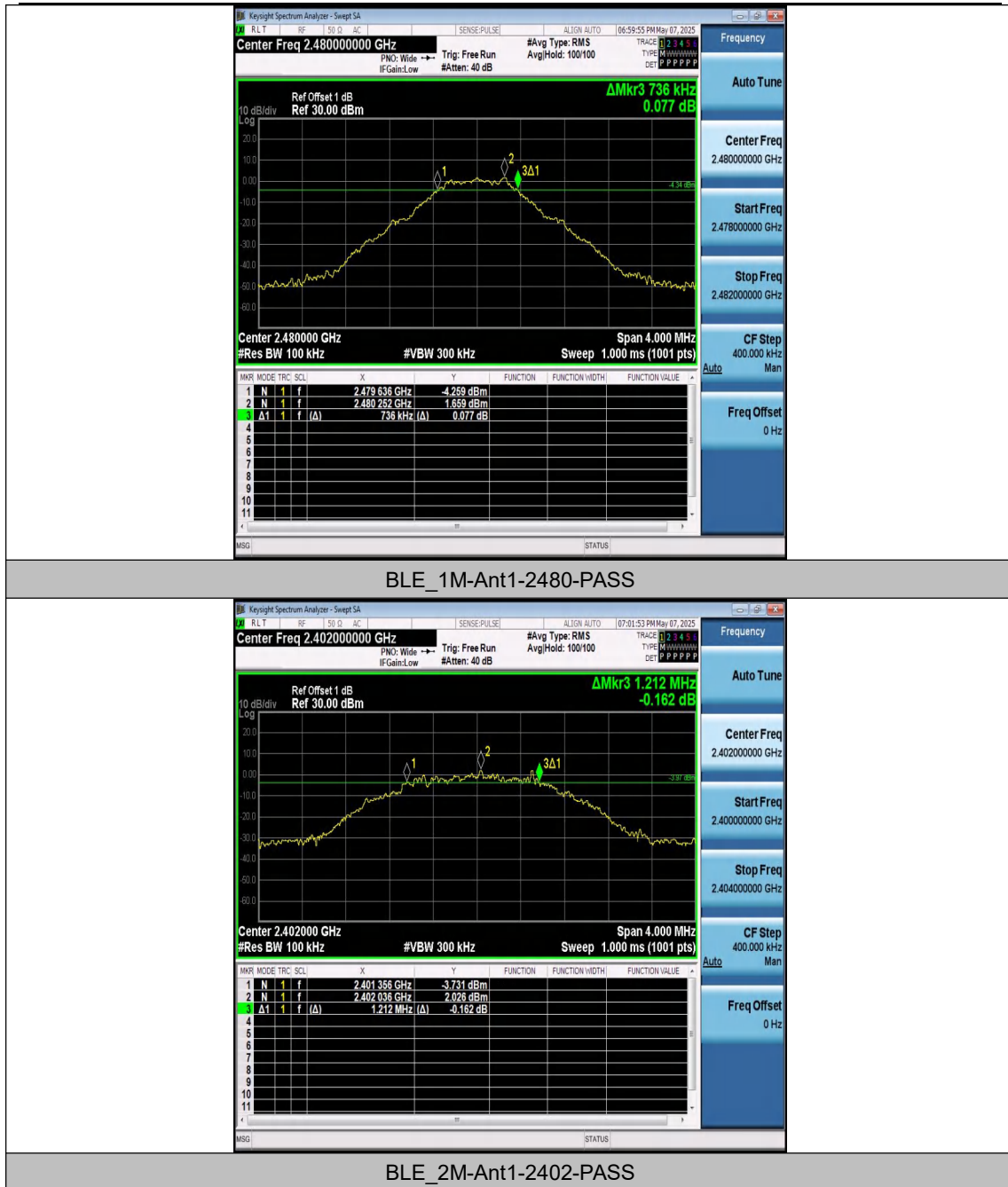
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.640	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.728	2439.628	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.736	2479.636	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.212	2401.356	2402.568	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.464	2440.572	0.5	PASS
BLE_2M	Ant1	2480	1.092	2479.468	2480.560	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	1.1171	2401.4477	2402.5648	---	---
BLE_1M	Ant1	2440	1.1684	2439.4176	2440.5860	---	---
BLE_1M	Ant1	2480	1.2084	2479.3975	2480.6059	---	---
BLE_2M	Ant1	2402	2.0915	2400.9741	2403.0656	---	---
BLE_2M	Ant1	2440	2.0900	2438.9738	2441.0638	---	---
BLE_2M	Ant1	2480	2.1028	2478.9582	2481.0610	---	---

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Test Graphs





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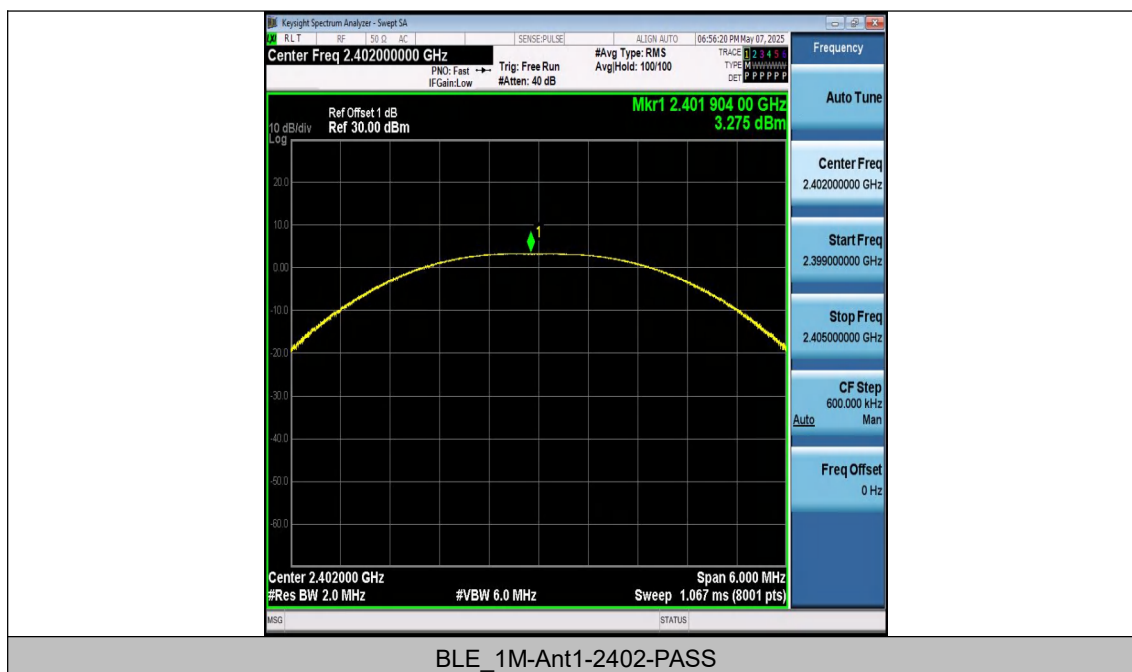


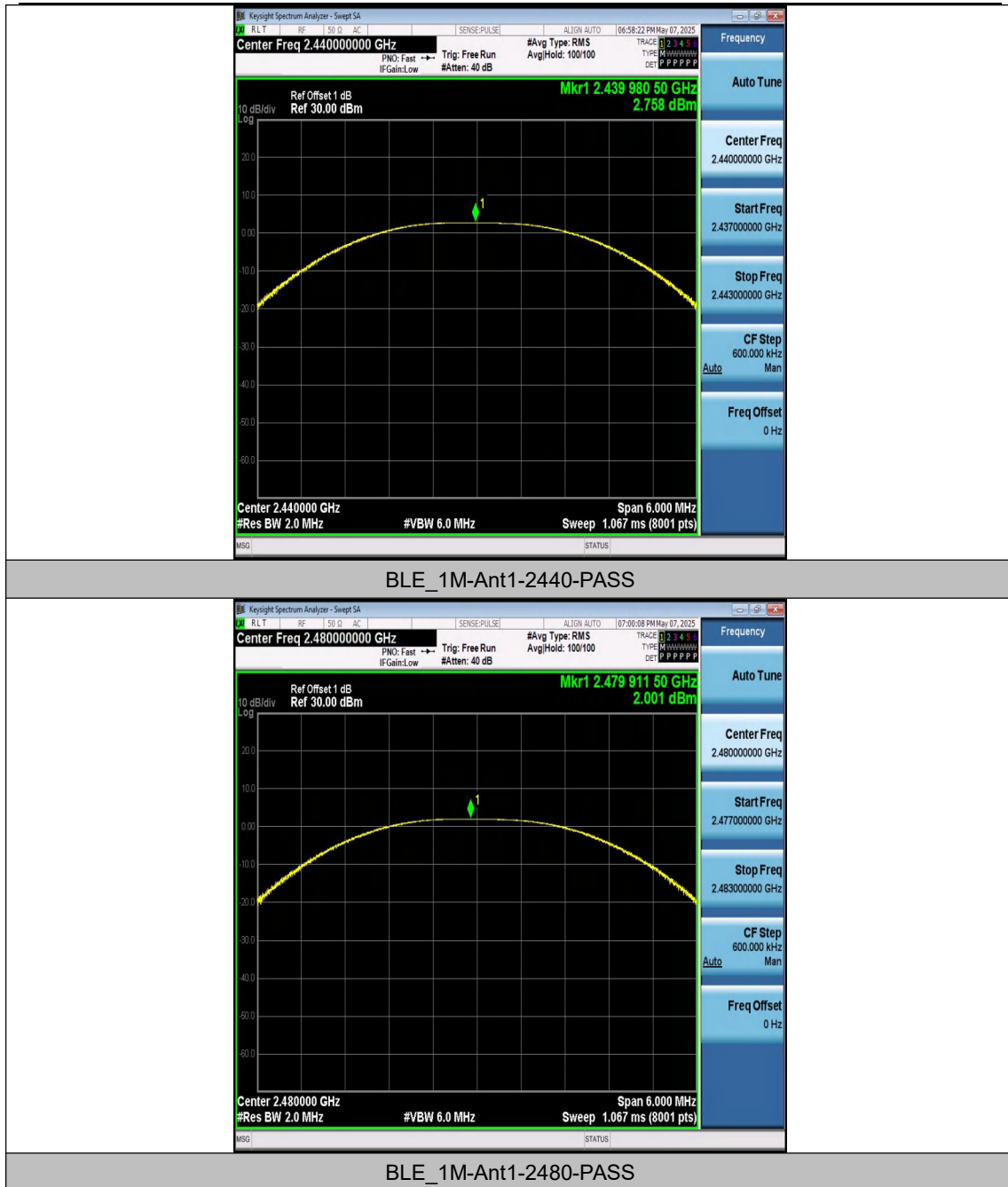
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.28	≤30	PASS
BLE_1M	Ant1	2440	2.76	≤30	PASS
BLE_1M	Ant1	2480	2.00	≤30	PASS
BLE_2M	Ant1	2402	3.29	≤30	PASS
BLE_2M	Ant1	2440	2.79	≤30	PASS
BLE_2M	Ant1	2480	2.07	≤30	PASS

Test Graphs Peak



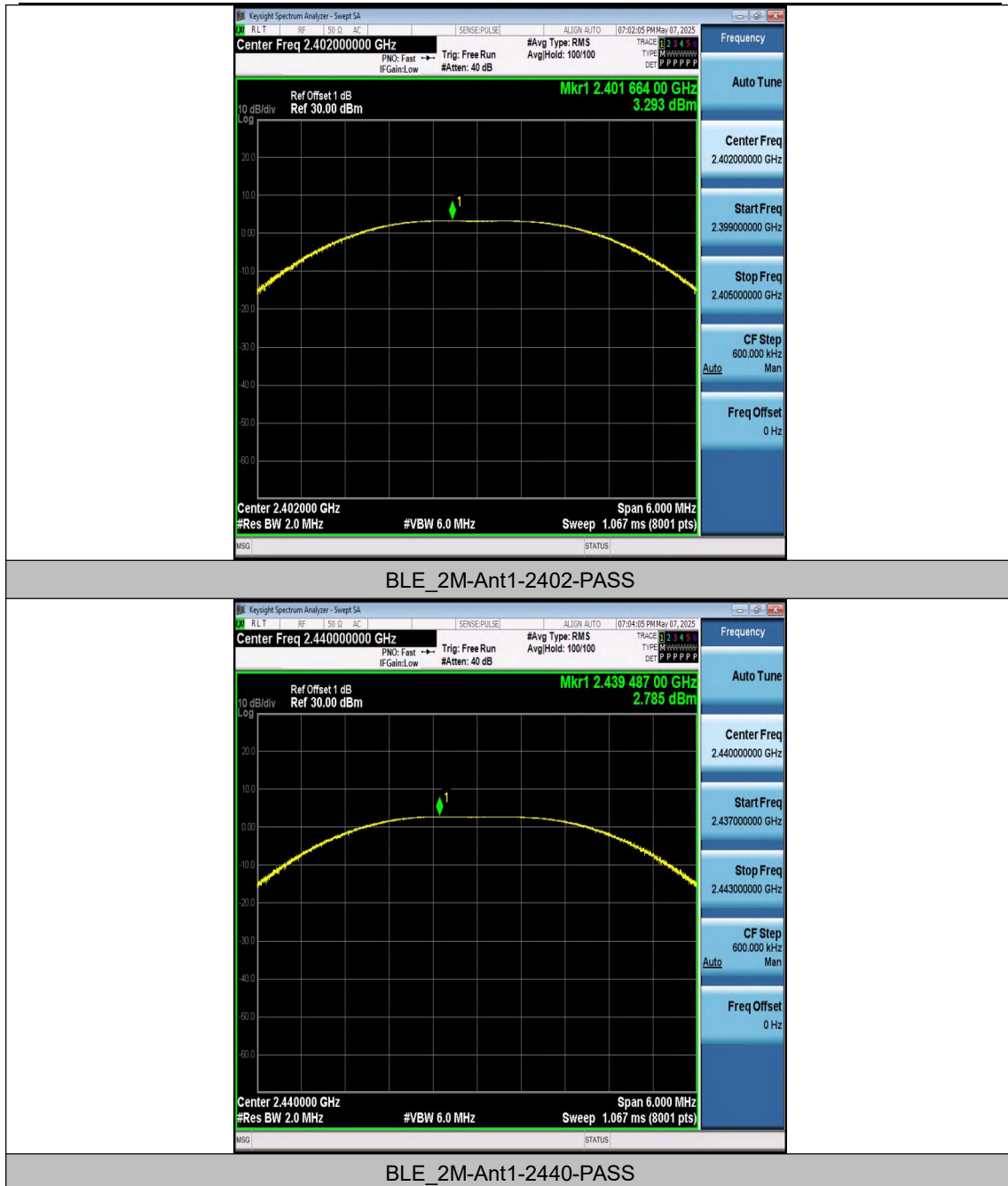


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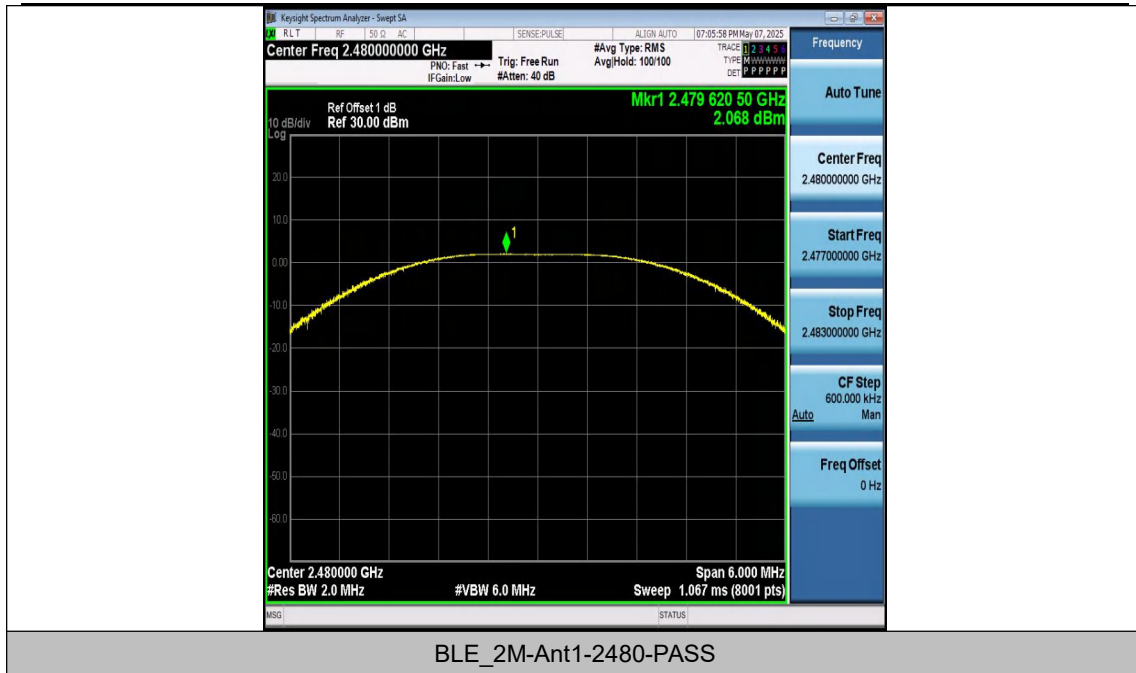


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Appendix D: Maximum power spectral density

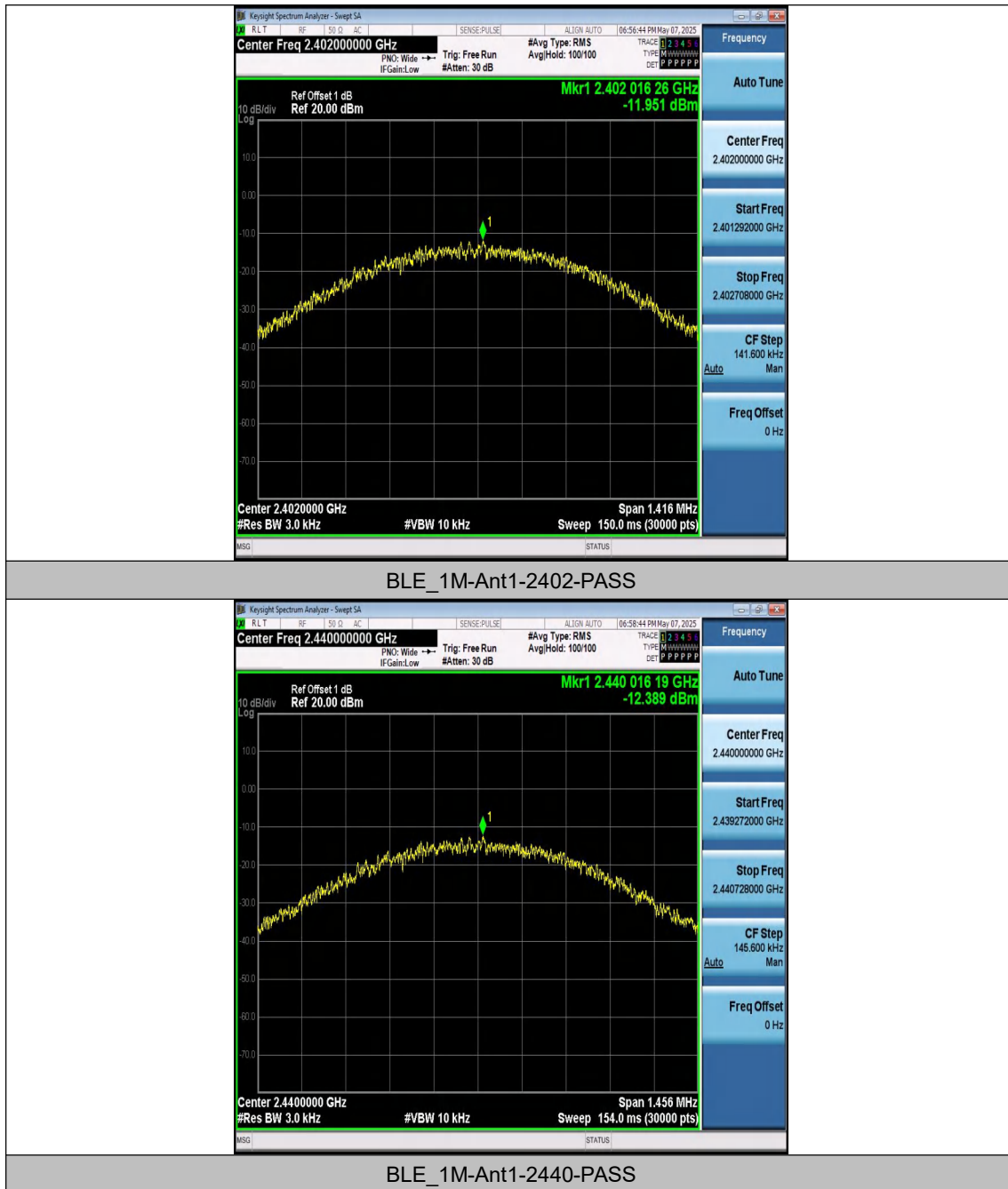
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.95	≤8.00	PASS
BLE_1M	Ant1	2440	-12.39	≤8.00	PASS
BLE_1M	Ant1	2480	-13.31	≤8.00	PASS
BLE_2M	Ant1	2402	-15.83	≤8.00	PASS
BLE_2M	Ant1	2440	-16.09	≤8.00	PASS
BLE_2M	Ant1	2480	-16.60	≤8.00	PASS

Note: $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$.



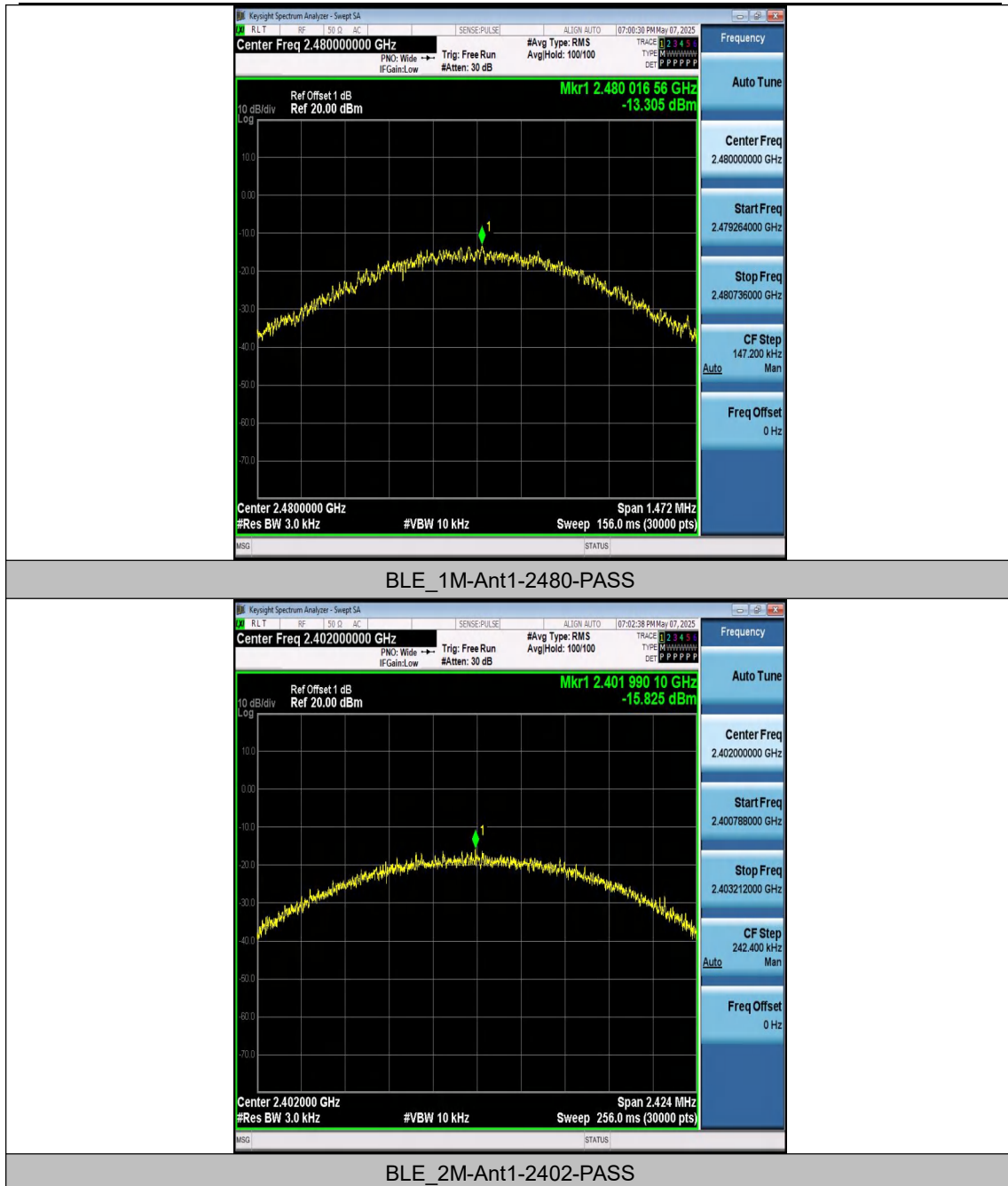
Test Graphs



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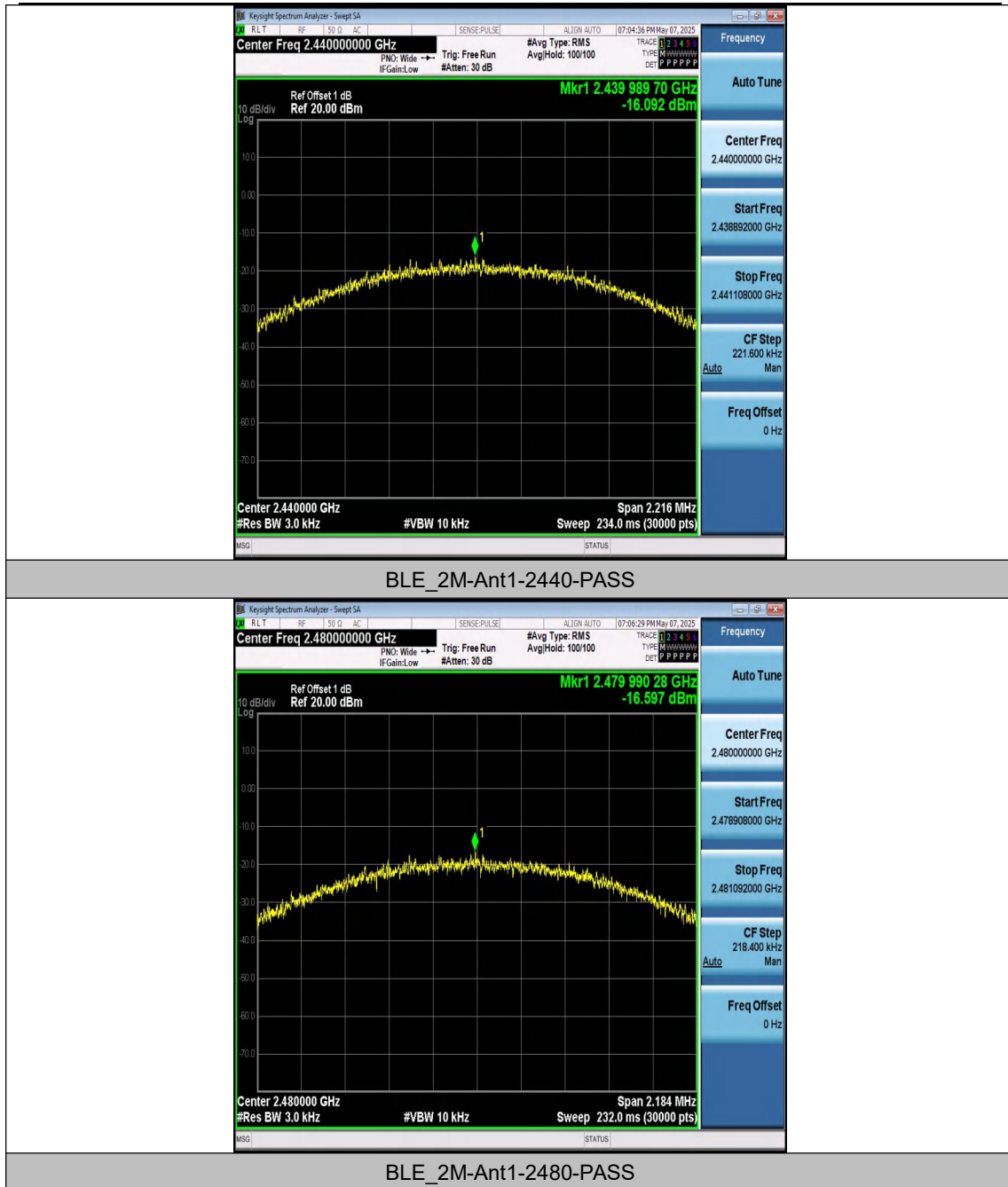


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Appendix E: Band edge measurements

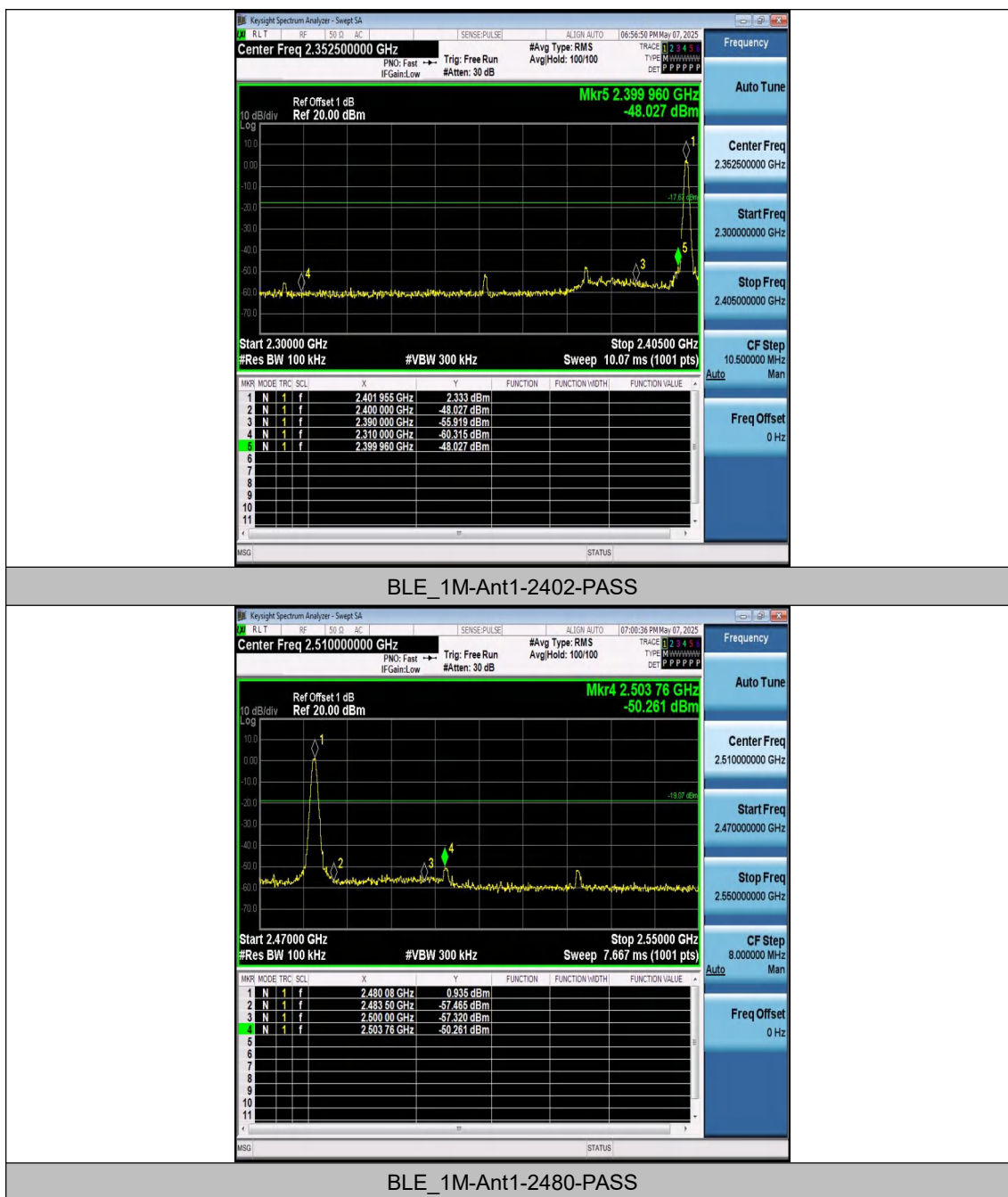
Test Result

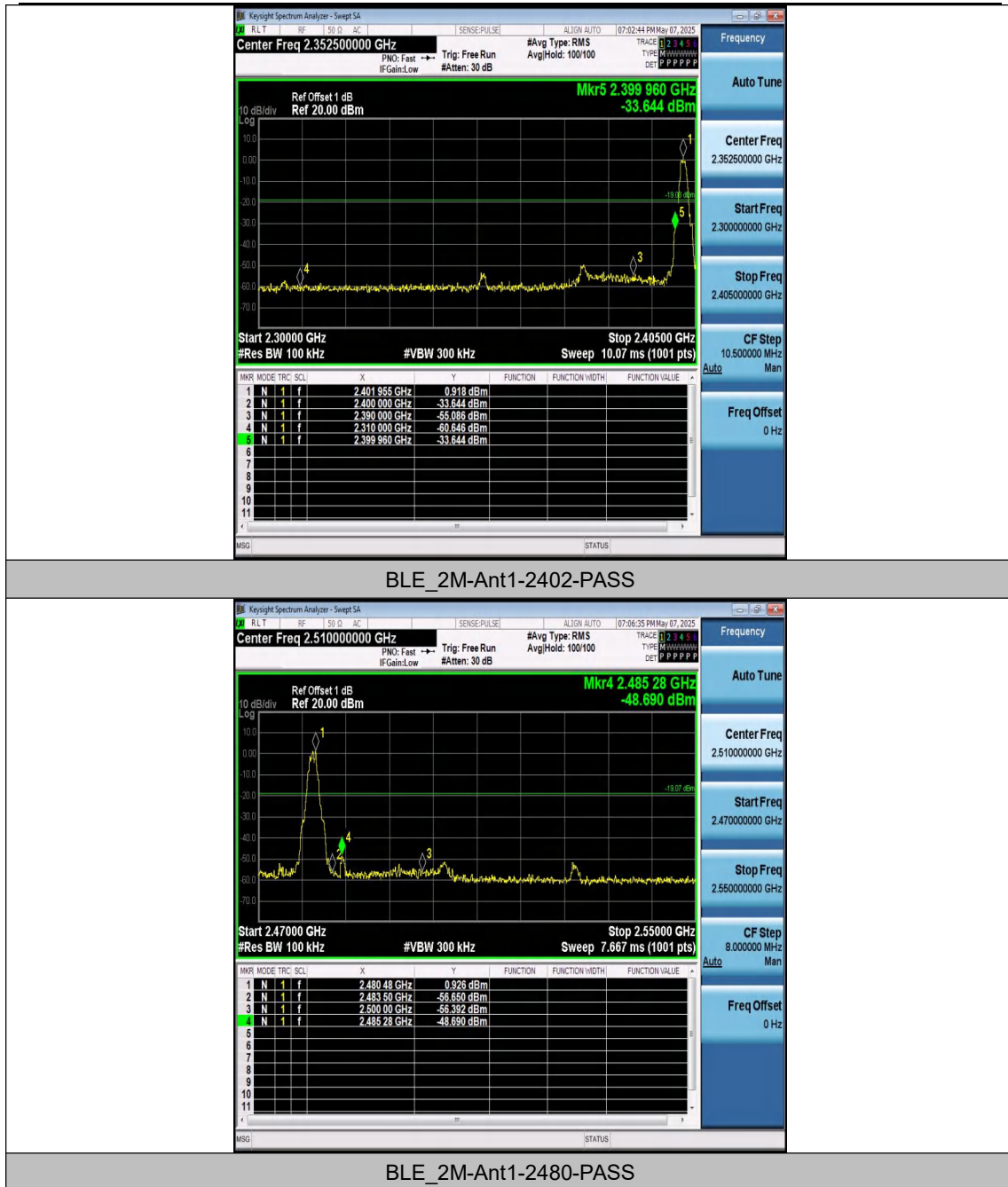
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.33	-48.03	≤-17.67	PASS
BLE_1M	Ant1	High	2480	0.94	-50.26	≤-19.07	PASS
BLE_2M	Ant1	Low	2402	0.92	-33.64	≤-19.08	PASS
BLE_2M	Ant1	High	2480	0.93	-48.69	≤-19.07	PASS

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





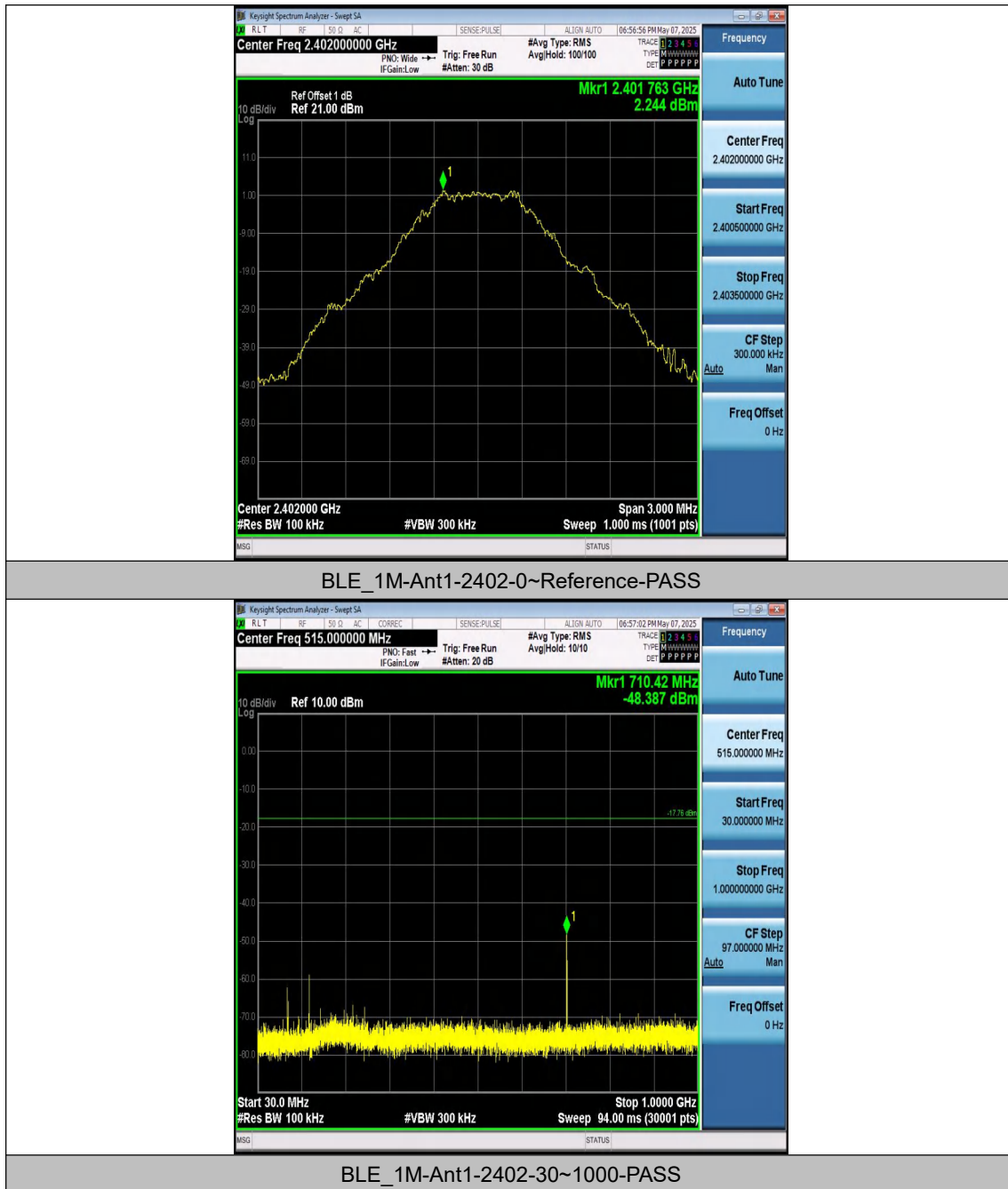
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.24	2.24	---	PASS
BLE_1M	Ant1	2402	30~1000	2.24	-48.39	≤-17.76	PASS
BLE_1M	Ant1	2402	1000~26500	2.24	-41.82	≤-17.76	PASS
BLE_1M	Ant1	2440	0~Reference	2.24	2.24	---	PASS
BLE_1M	Ant1	2440	30~1000	2.24	-62.31	≤-17.76	PASS
BLE_1M	Ant1	2440	1000~26500	2.24	-39.71	≤-17.76	PASS
BLE_1M	Ant1	2480	0~Reference	1.11	1.11	---	PASS
BLE_1M	Ant1	2480	30~1000	1.11	-62.01	≤-18.89	PASS
BLE_1M	Ant1	2480	1000~26500	1.11	-37.15	≤-18.89	PASS
BLE_2M	Ant1	2402	0~Reference	1.64	1.64	---	PASS
BLE_2M	Ant1	2402	30~1000	1.64	-61.02	≤-18.36	PASS
BLE_2M	Ant1	2402	1000~26500	1.64	-42.71	≤-18.36	PASS
BLE_2M	Ant1	2440	0~Reference	1.22	1.22	---	PASS
BLE_2M	Ant1	2440	30~1000	1.22	-63	≤-18.78	PASS
BLE_2M	Ant1	2440	1000~26500	1.22	-37.57	≤-18.78	PASS
BLE_2M	Ant1	2480	0~Reference	0.79	0.79	---	PASS
BLE_2M	Ant1	2480	30~1000	0.79	-57.64	≤-19.21	PASS
BLE_2M	Ant1	2480	1000~26500	0.79	-40.4	≤-19.21	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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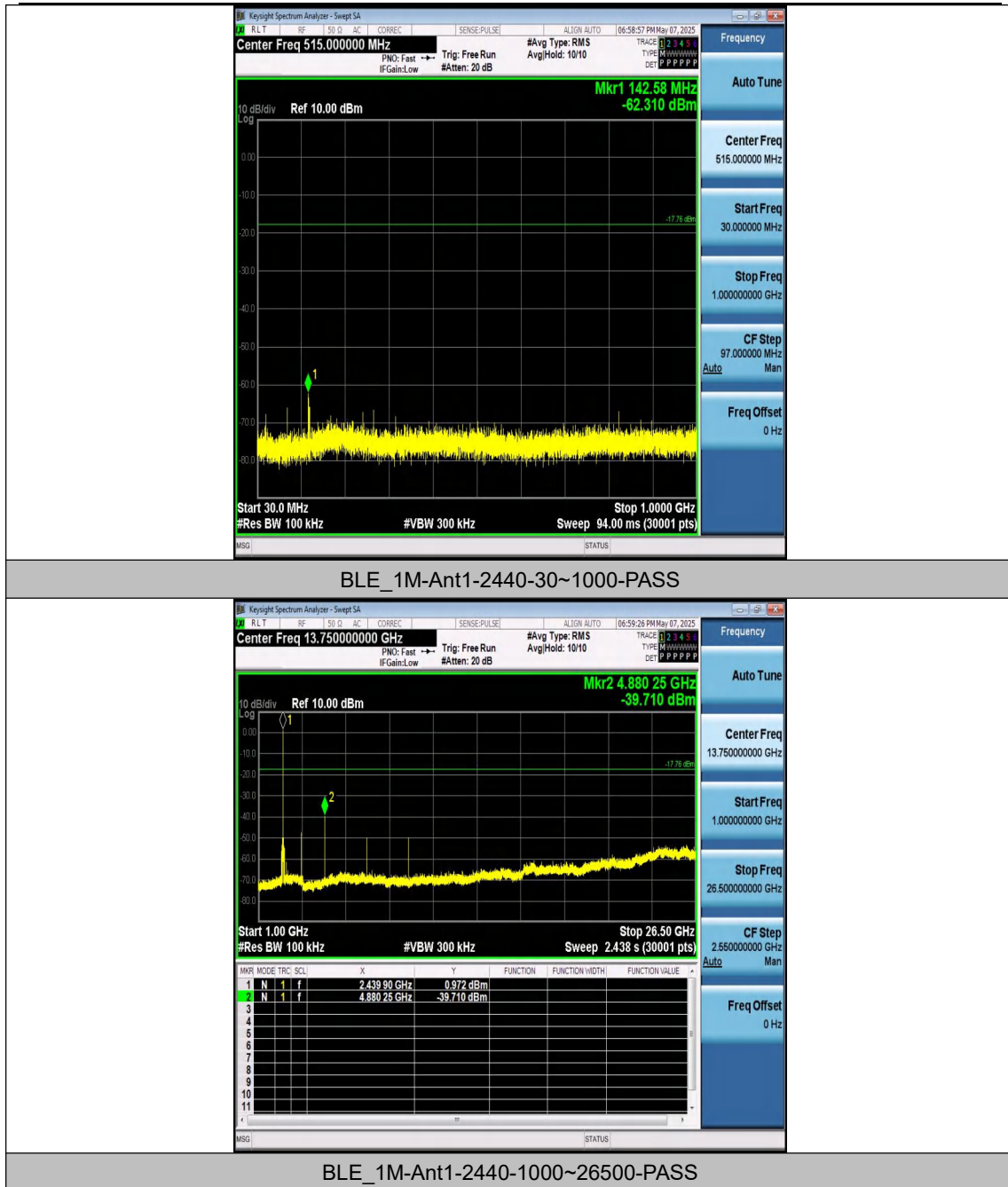


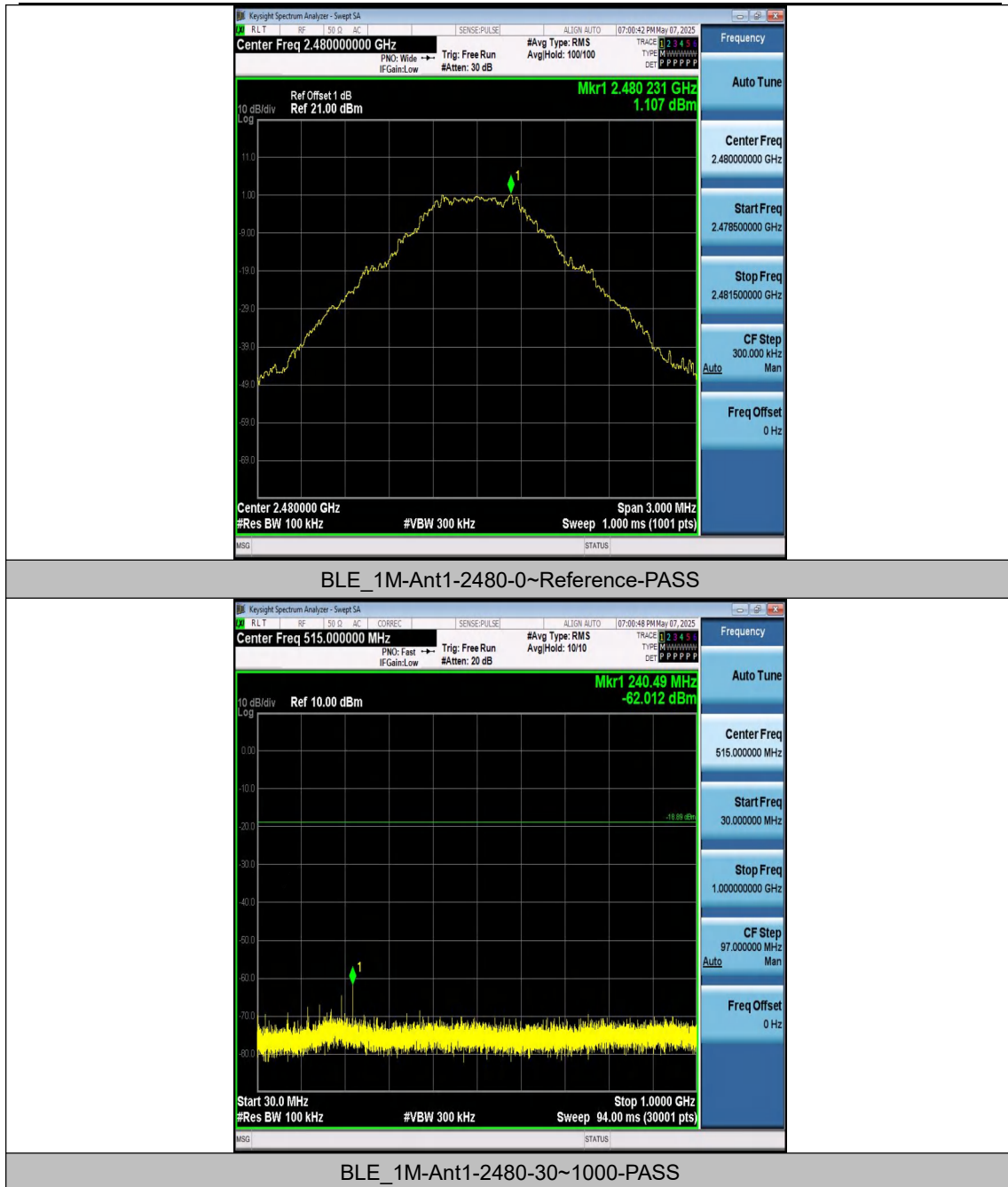
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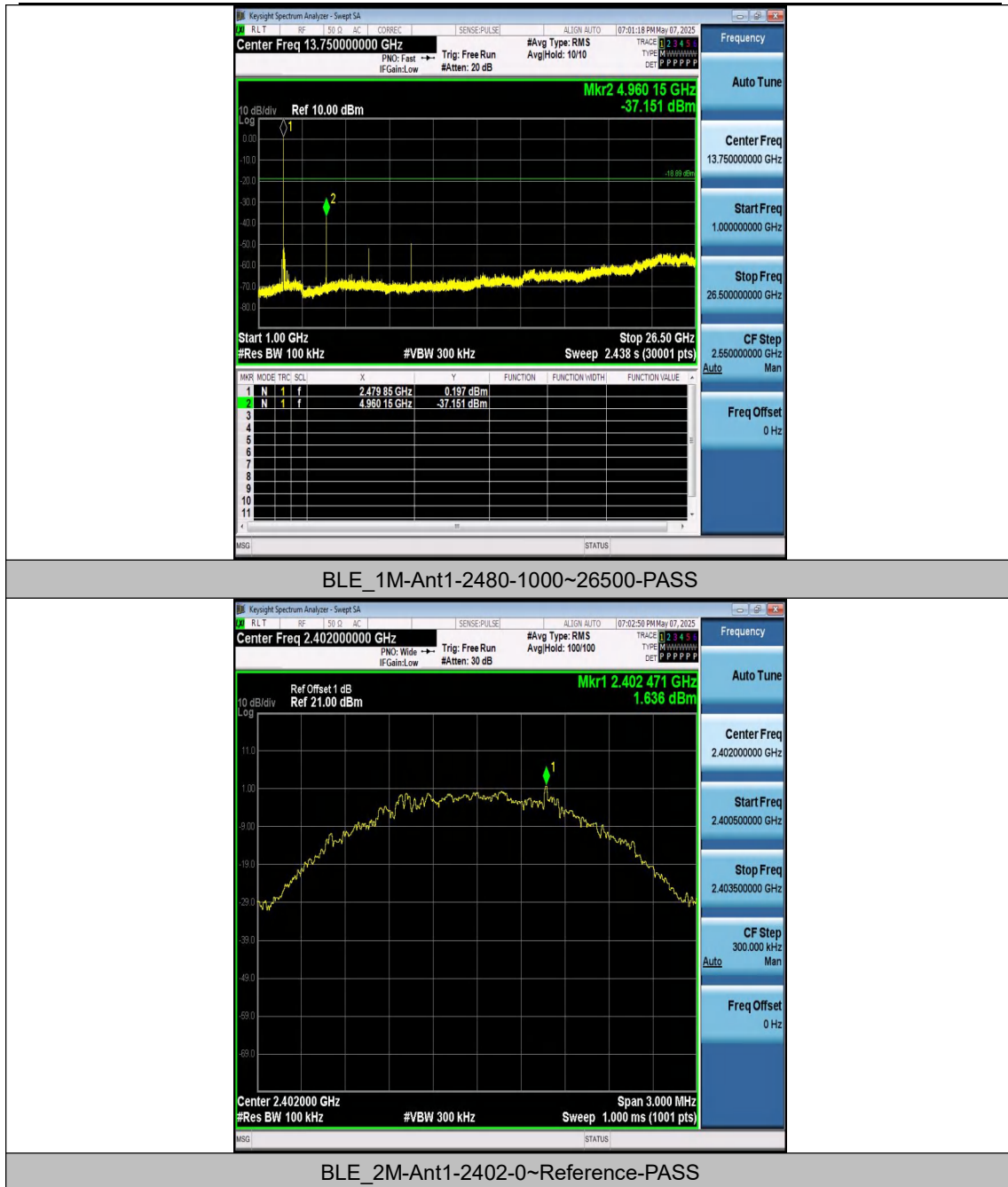


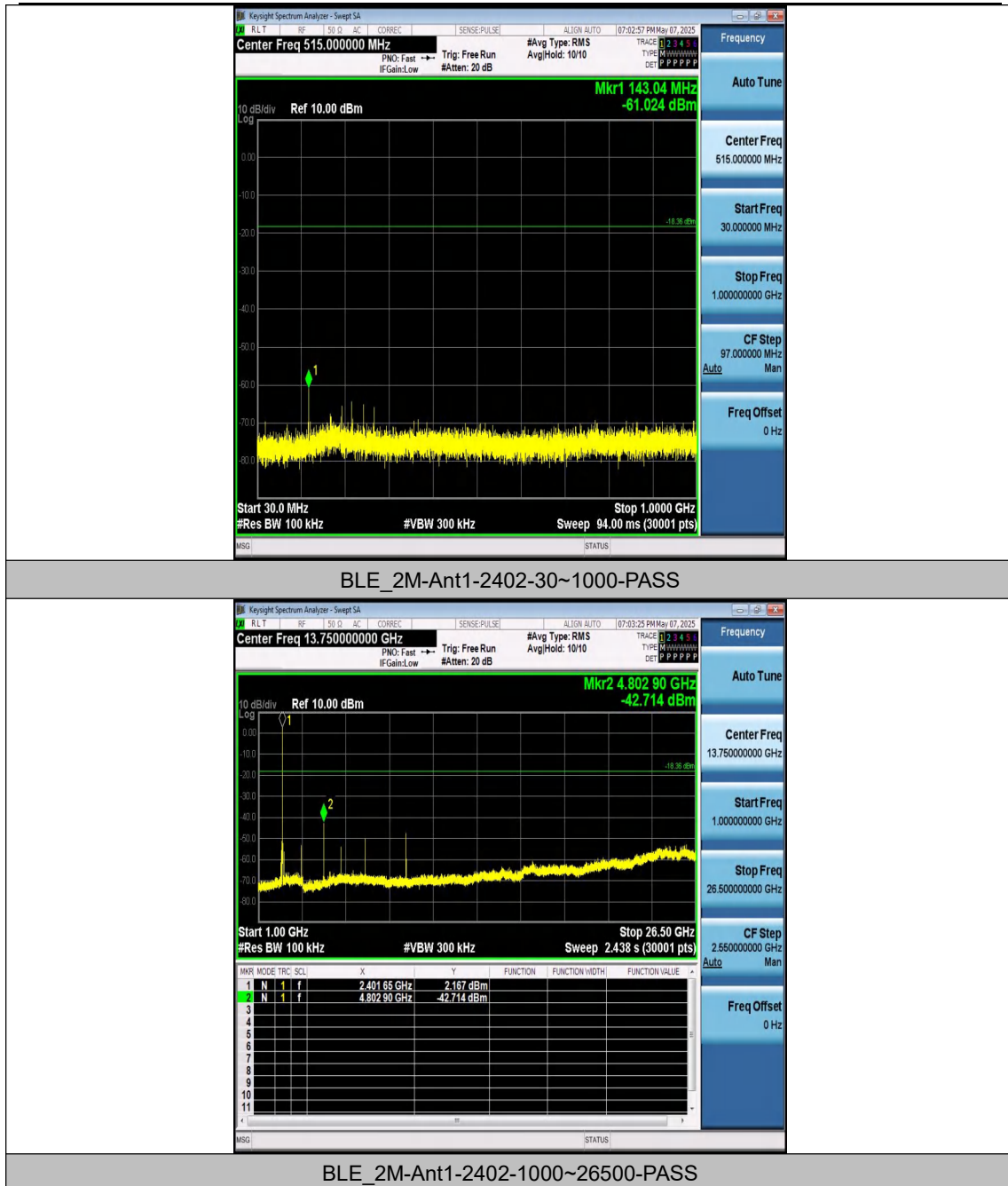
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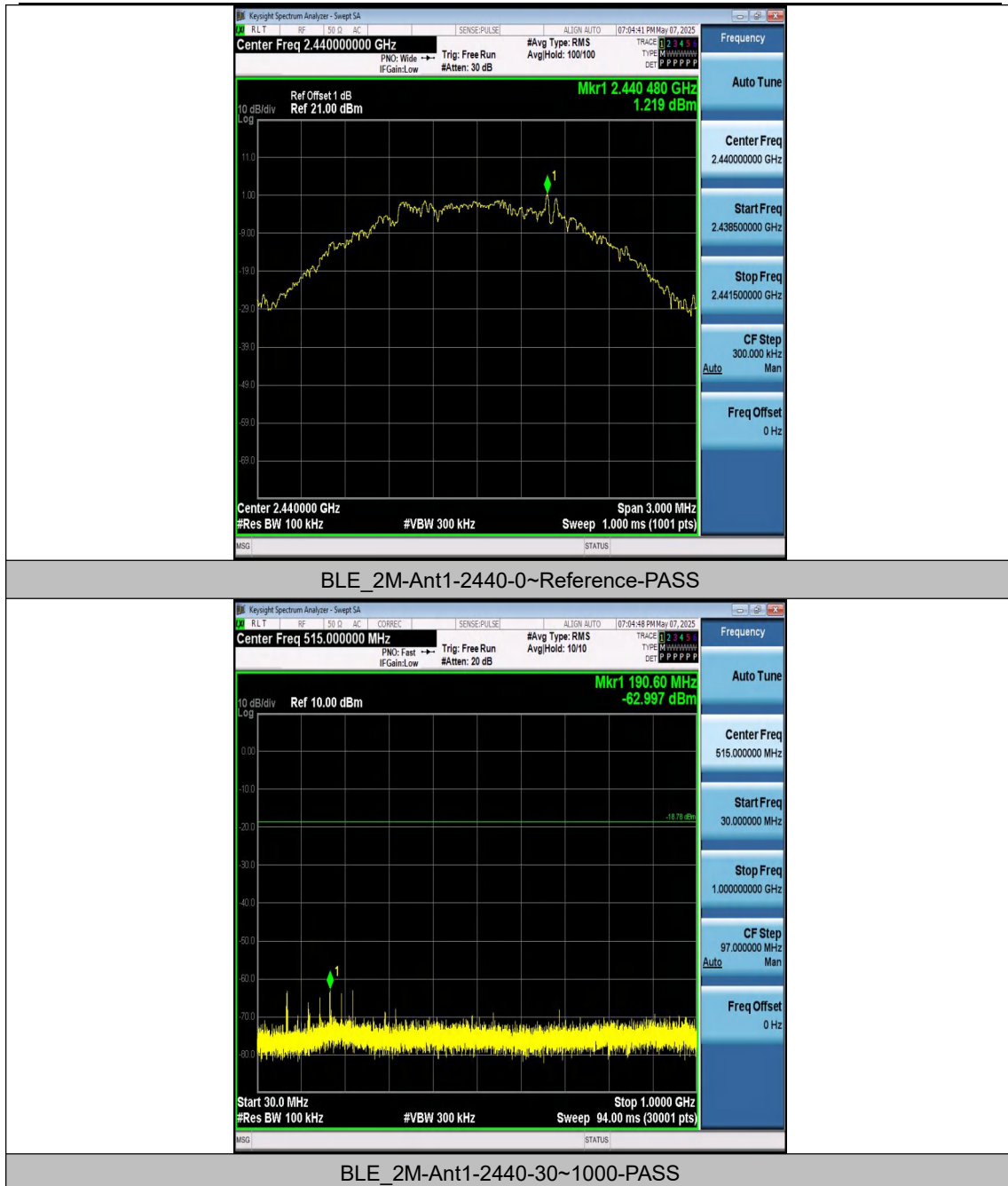
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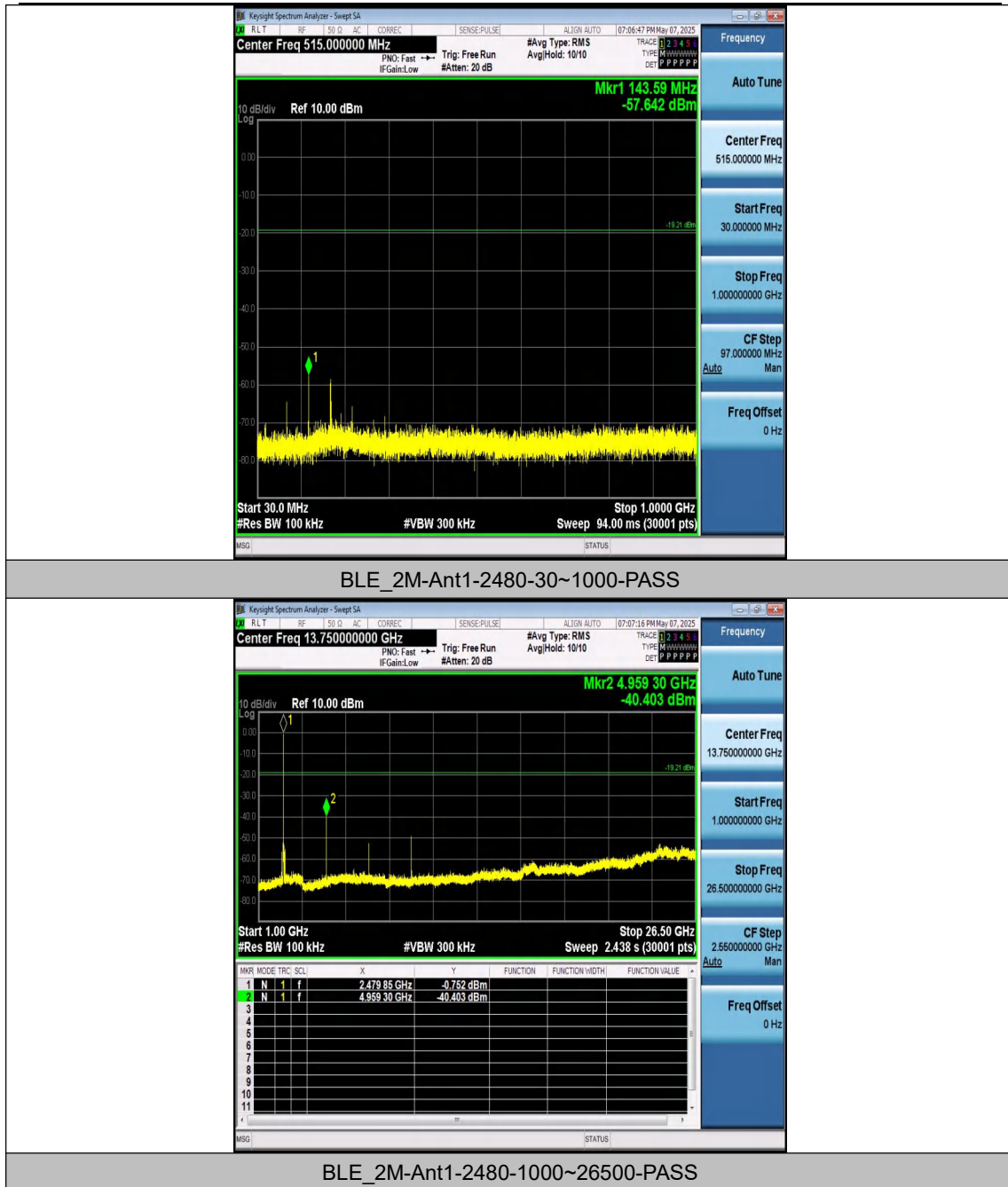
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Appendix G: Duty Cycle

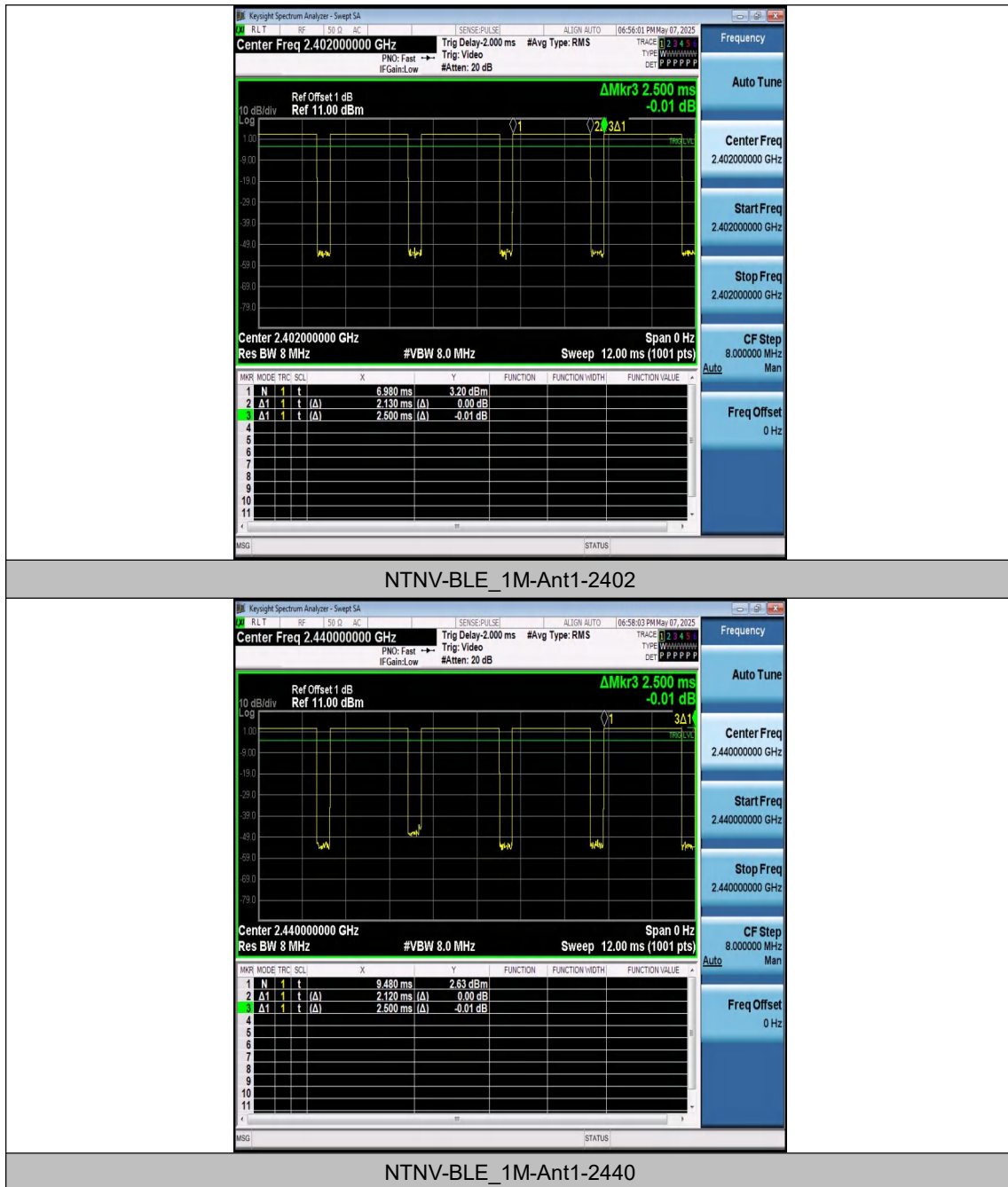
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

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Test Graphs

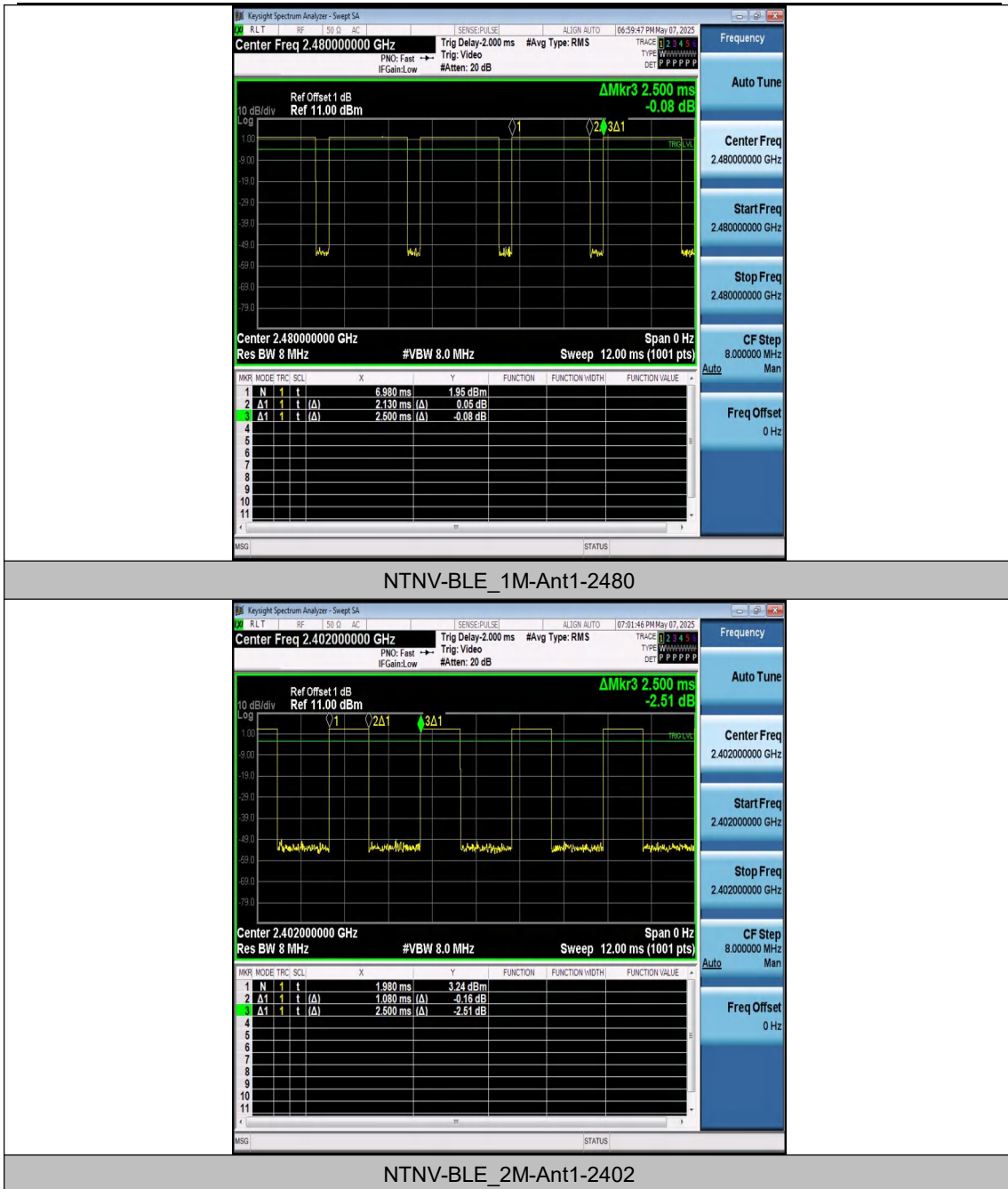


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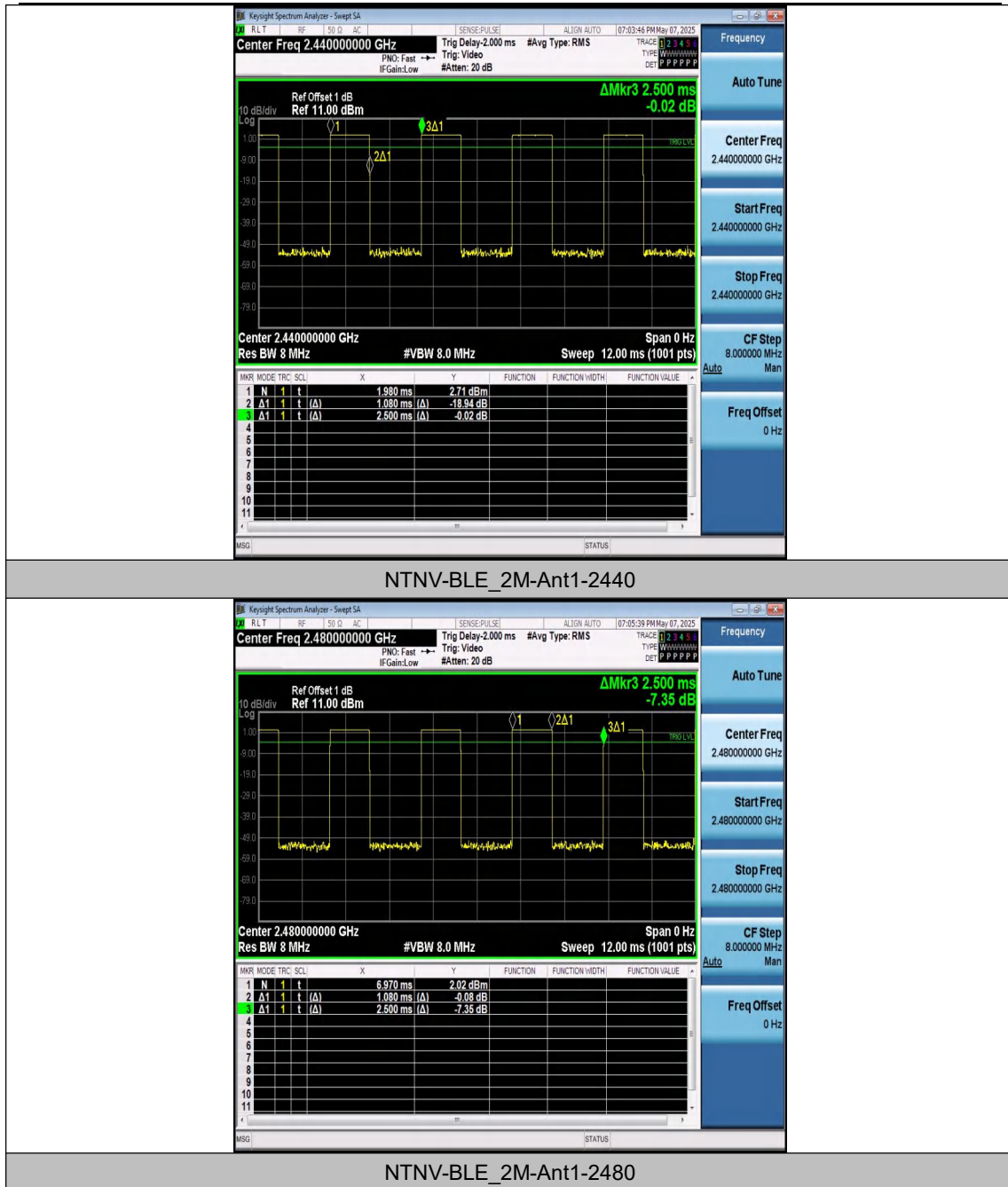


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