

Appendix Test Data

Report No.:	1812C50197912502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-30	Finish Test Date:	2025-05-06
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.4°C	Relative Humidity:	47%
Pressure:	101kPa		

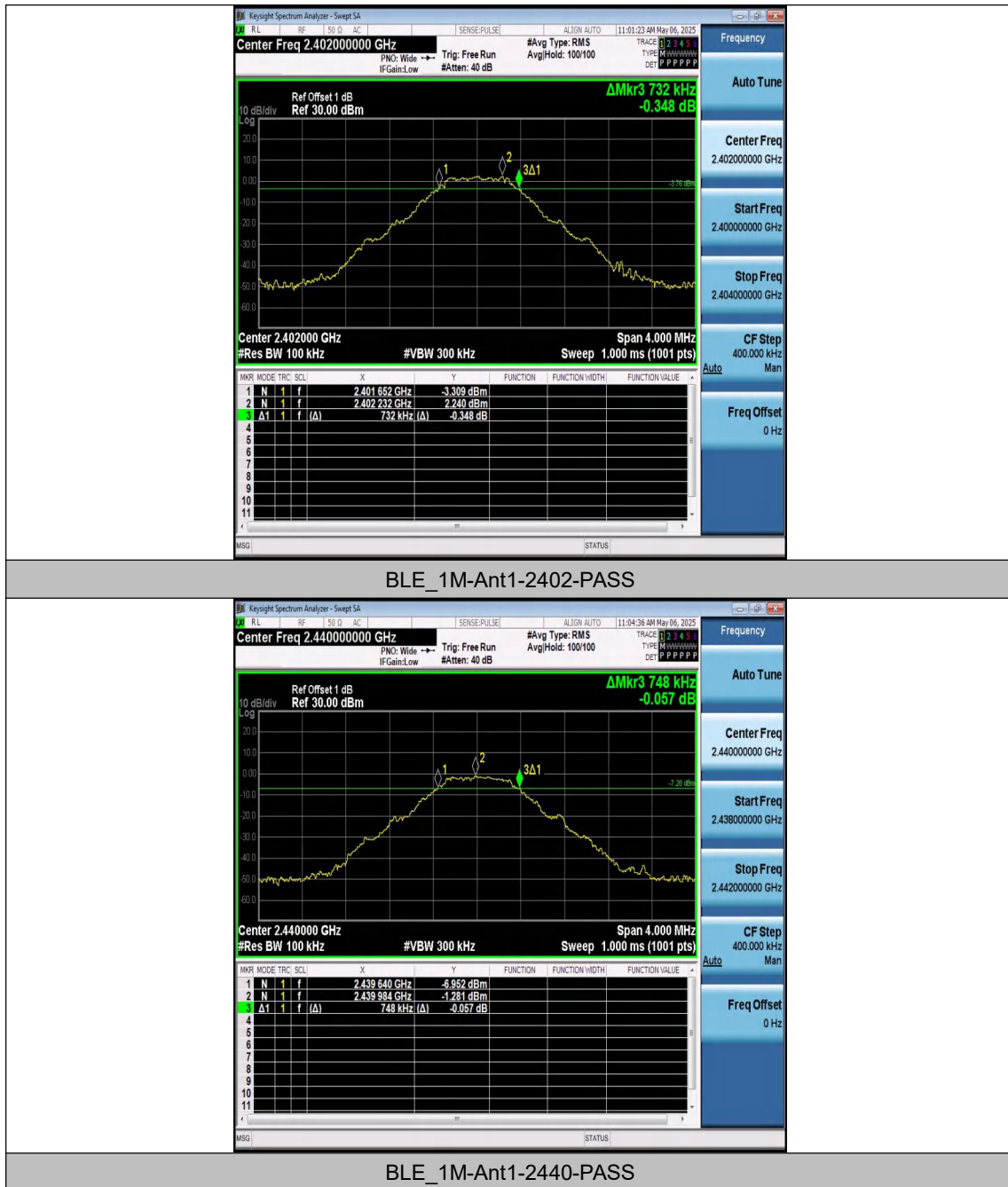
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.732	2401.652	2402.384	0.5	PASS
BLE_1M	Ant1	2440	0.748	2439.640	2440.388	0.5	PASS
BLE_1M	Ant1	2480	0.736	2479.628	2480.364	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.428	2402.548	0.5	PASS
BLE_2M	Ant1	2440	1.136	2439.412	2440.548	0.5	PASS
BLE_2M	Ant1	2480	1.092	2479.464	2480.556	0.5	PASS



Test Graphs







Appendix B: 99% Occupied Bandwidth

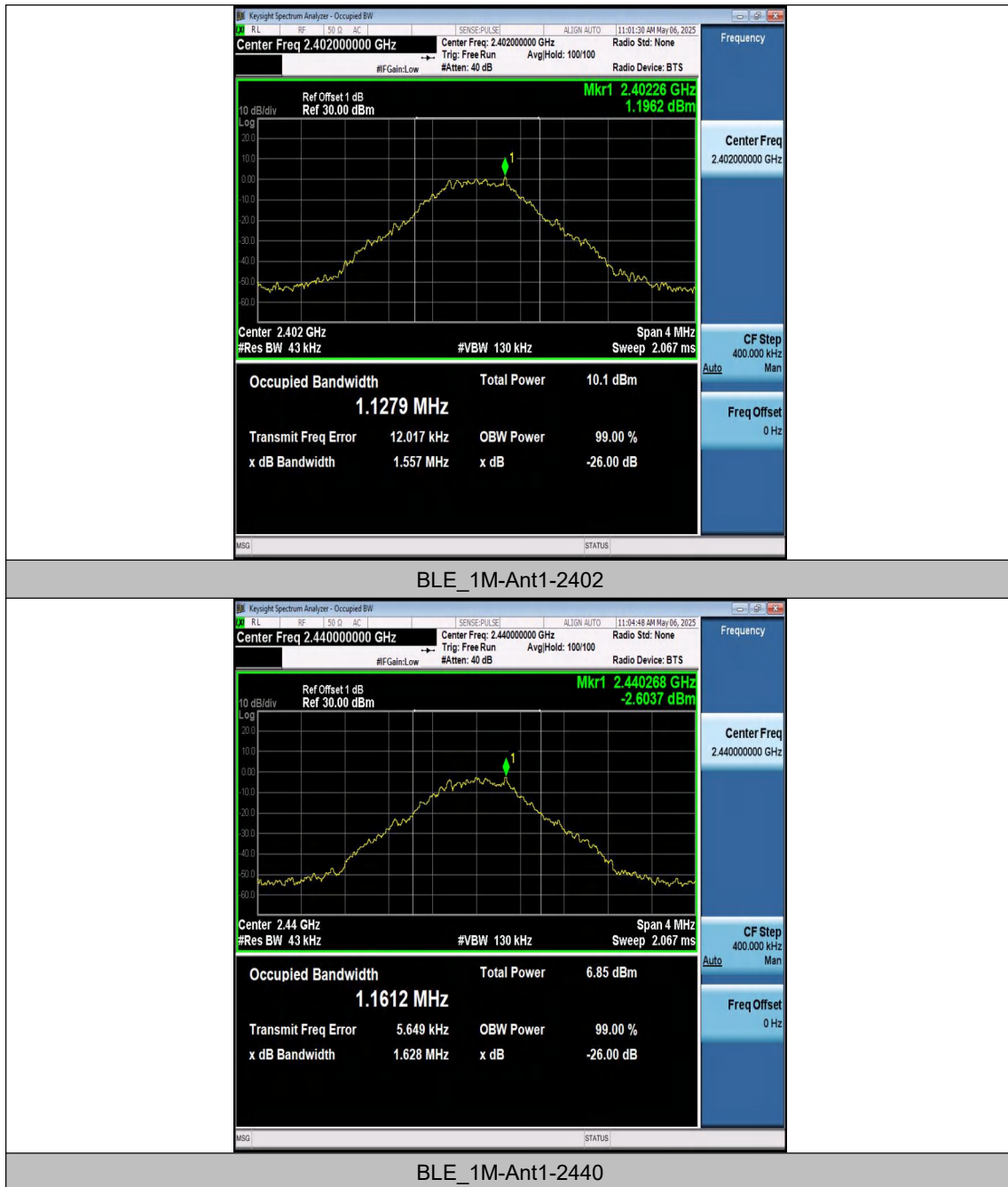
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1279	2401.4481	2402.5760	---	---
BLE_1M	Ant1	2440	1.1612	2439.4251	2440.5863	---	---
BLE_1M	Ant1	2480	1.2125	2479.3935	2480.6060	---	---
BLE_2M	Ant1	2402	2.0810	2400.9847	2403.0657	---	---
BLE_2M	Ant1	2440	2.1135	2438.9547	2441.0682	---	---
BLE_2M	Ant1	2480	2.1205	2478.9517	2481.0722	---	---

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Test Graphs



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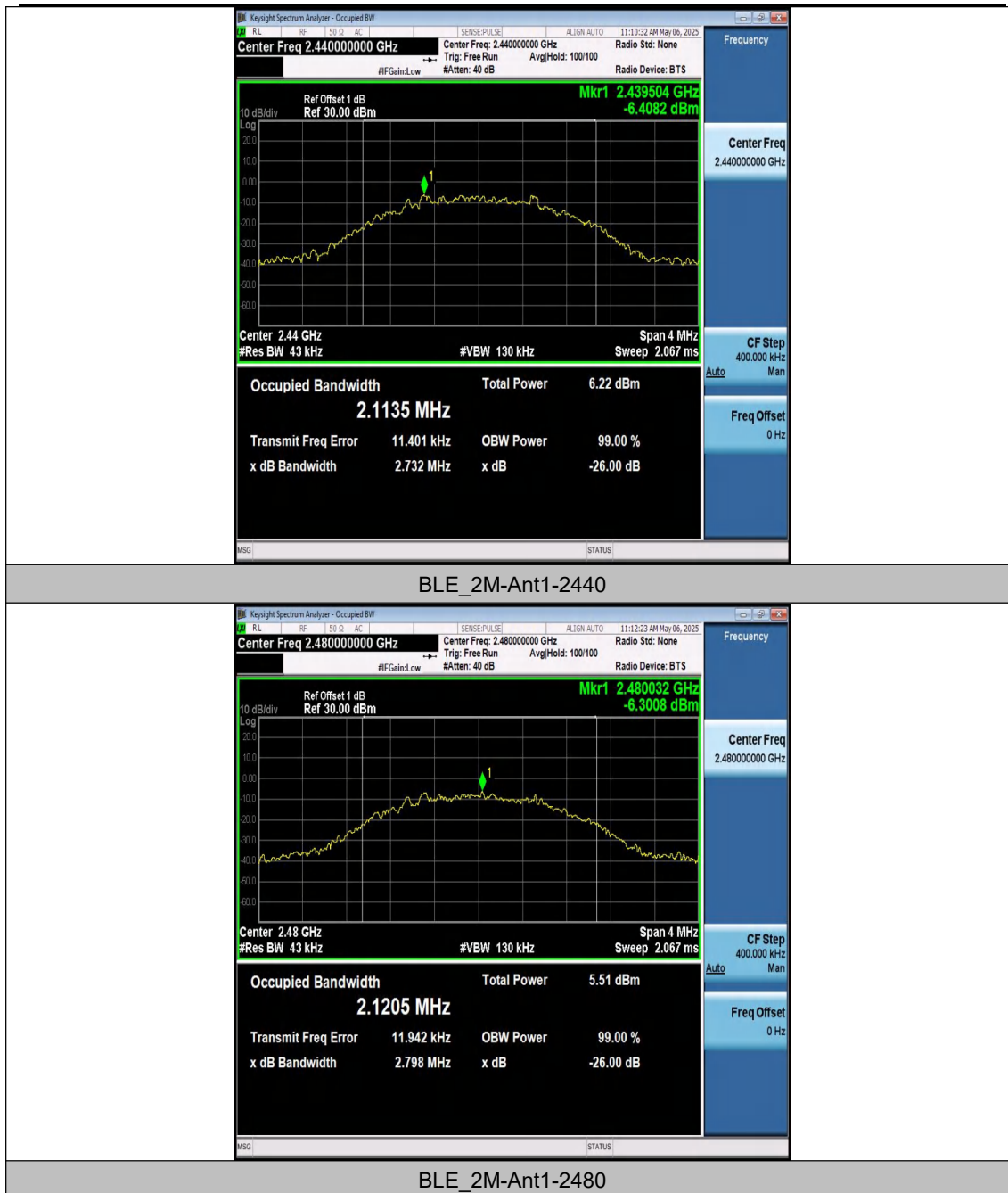
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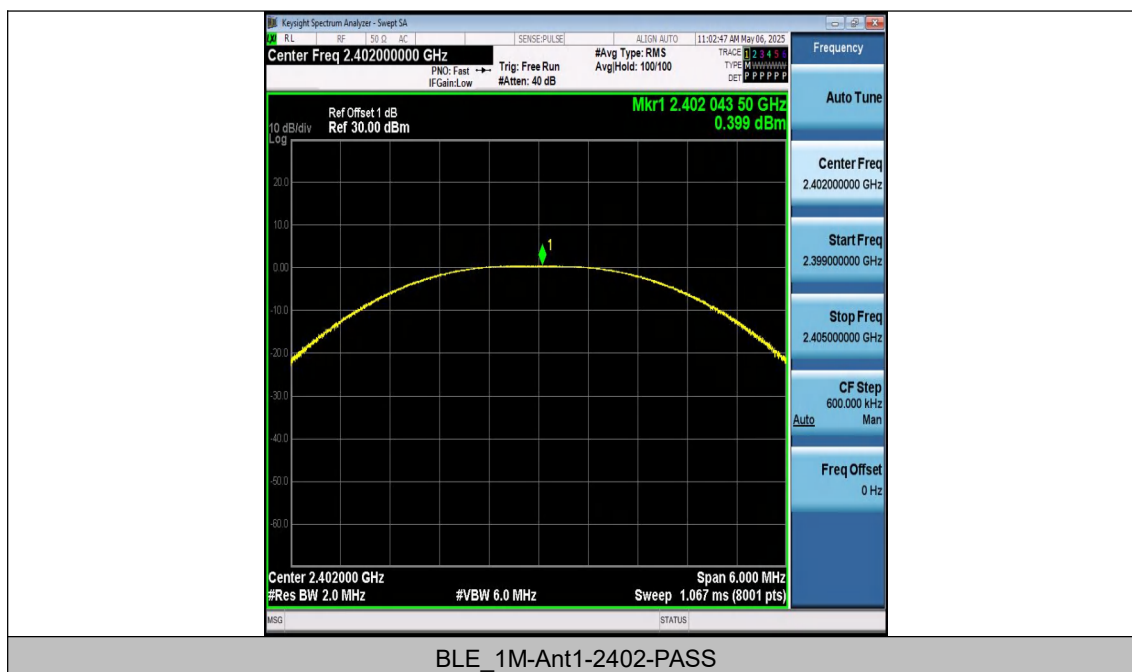


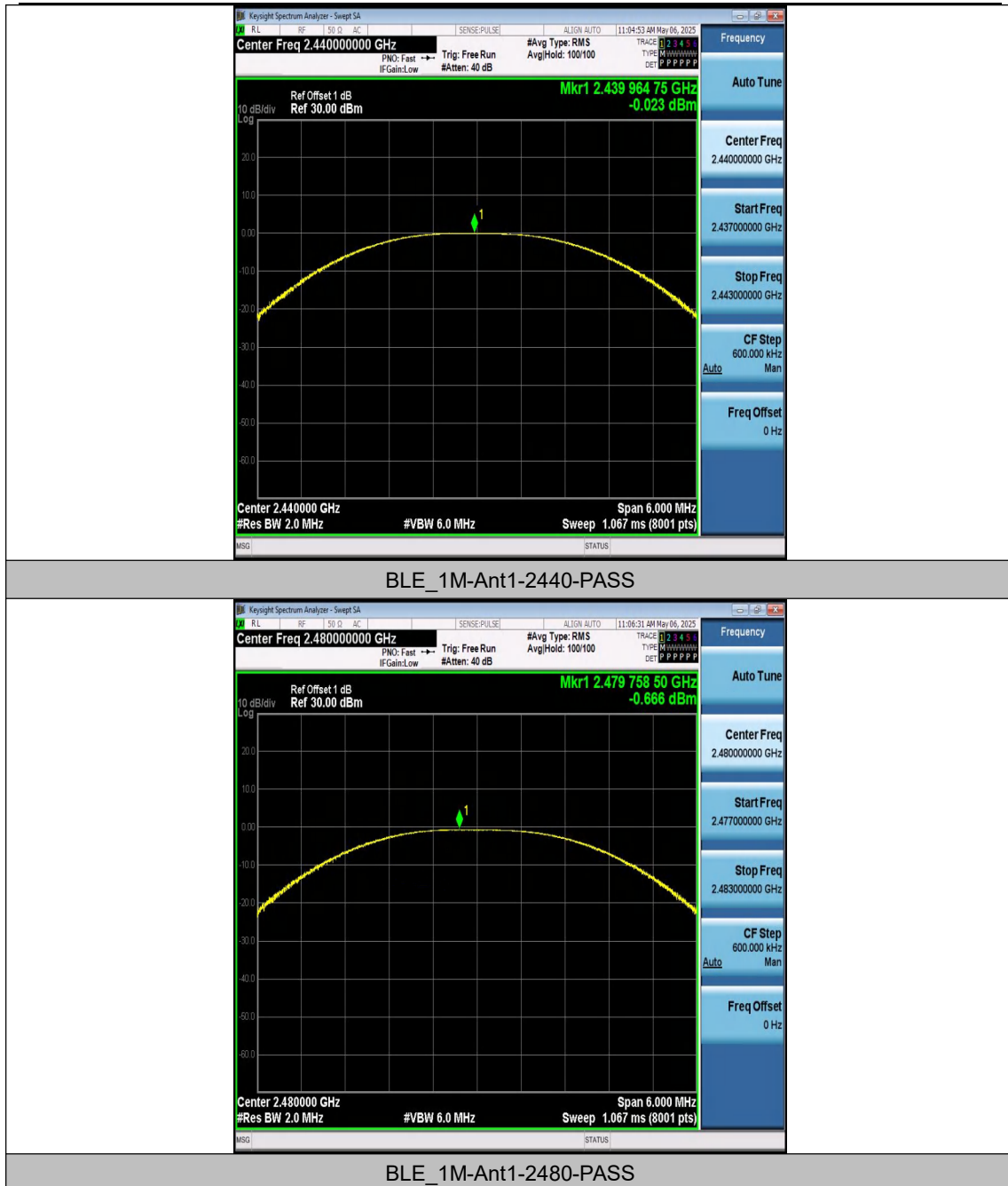
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.40	≤30	PASS
BLE_1M	Ant1	2440	-0.02	≤30	PASS
BLE_1M	Ant1	2480	-0.67	≤30	PASS
BLE_2M	Ant1	2402	0.41	≤30	PASS
BLE_2M	Ant1	2440	-0.01	≤30	PASS
BLE_2M	Ant1	2480	-0.59	≤30	PASS

Test Graphs Peak



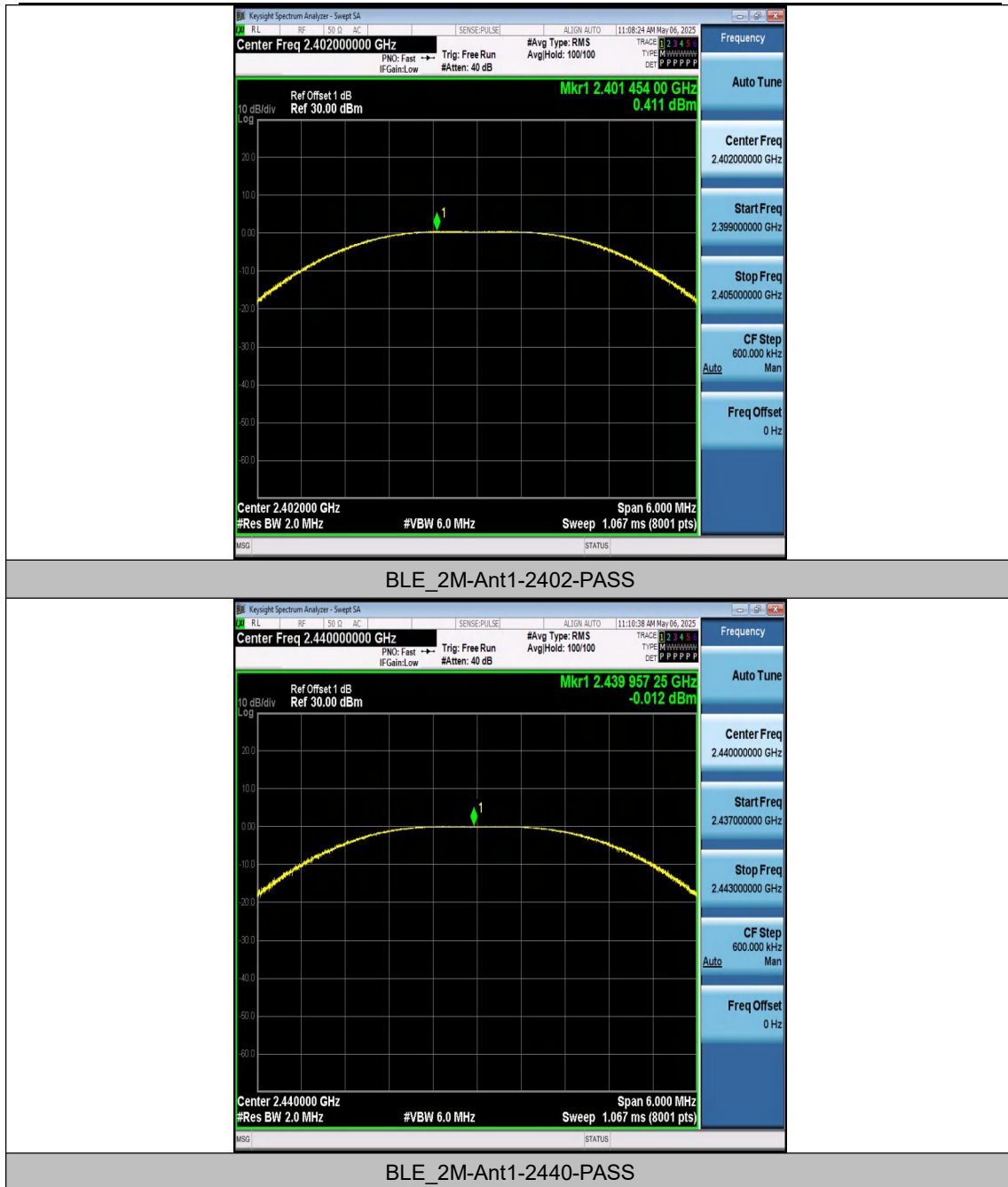


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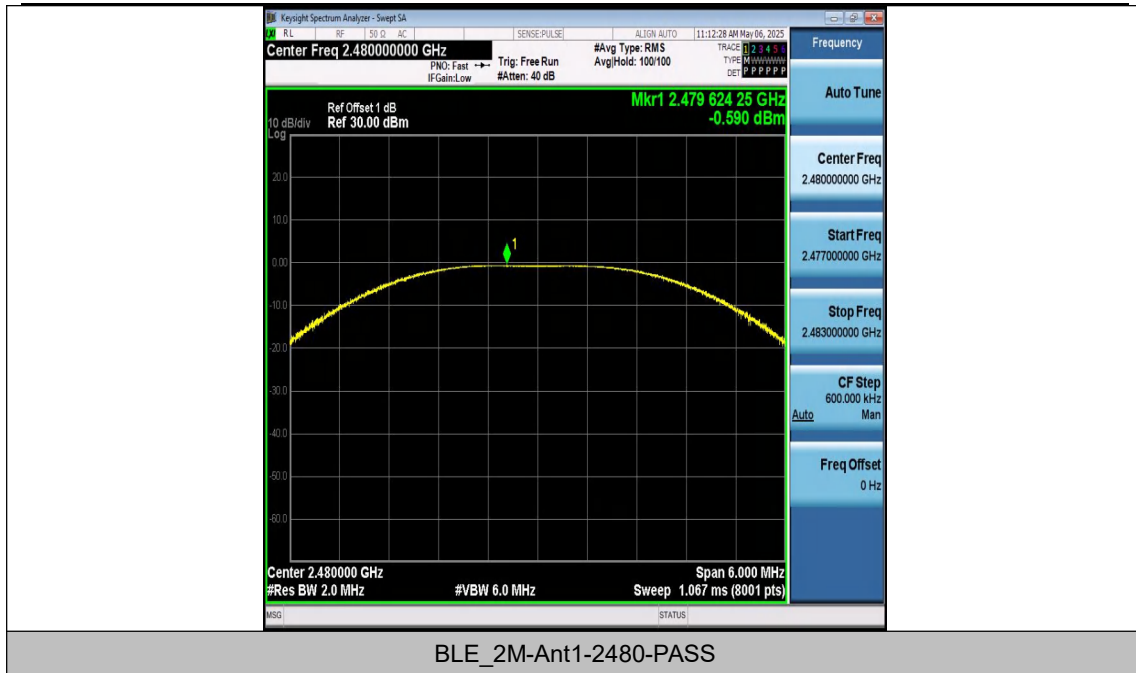
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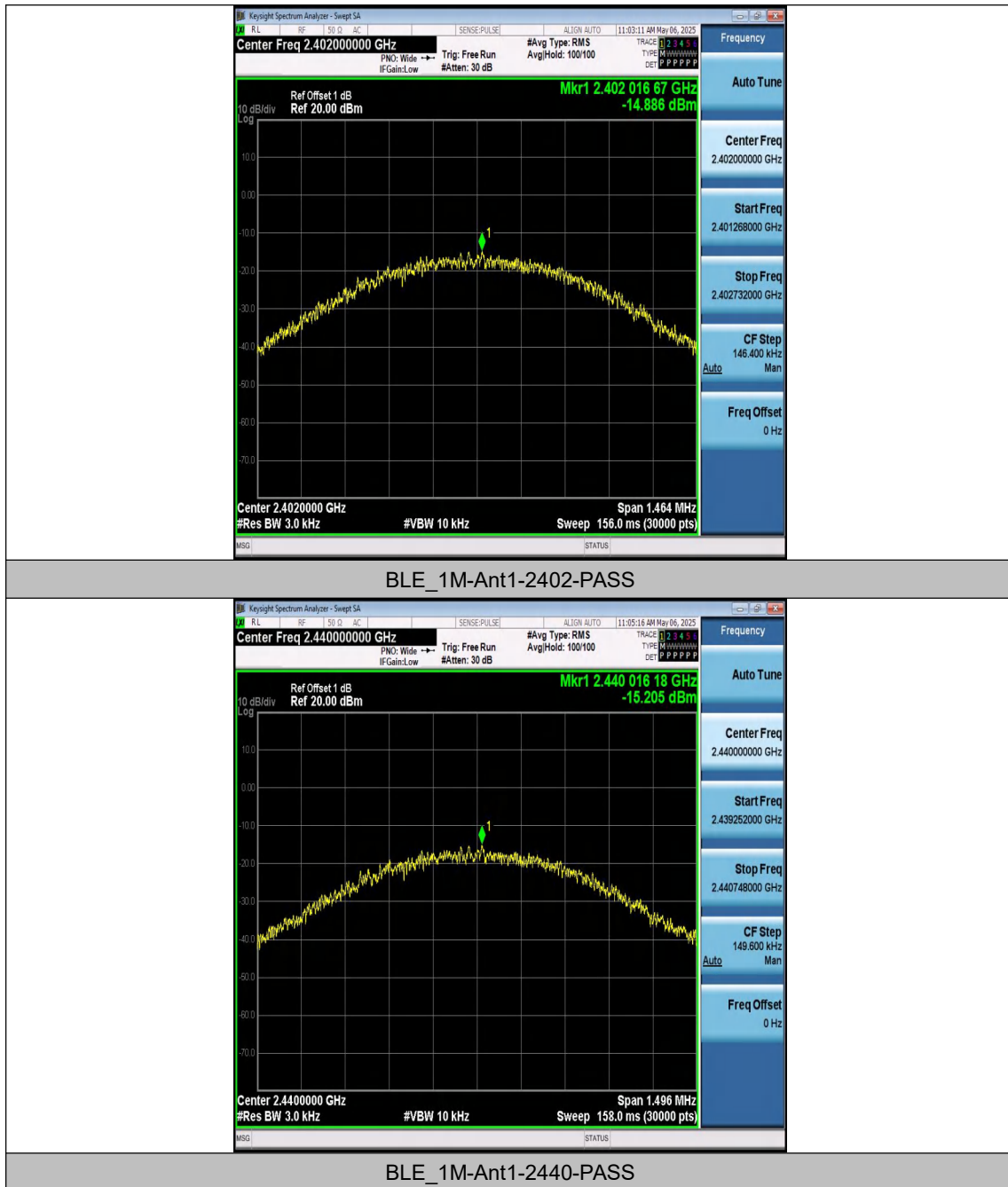
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.89	≤8.00	PASS
BLE_1M	Ant1	2440	-15.21	≤8.00	PASS
BLE_1M	Ant1	2480	-15.91	≤8.00	PASS
BLE_2M	Ant1	2402	-18.81	≤8.00	PASS
BLE_2M	Ant1	2440	-18.77	≤8.00	PASS
BLE_2M	Ant1	2480	-19.10	≤8.00	PASS



Test Graphs

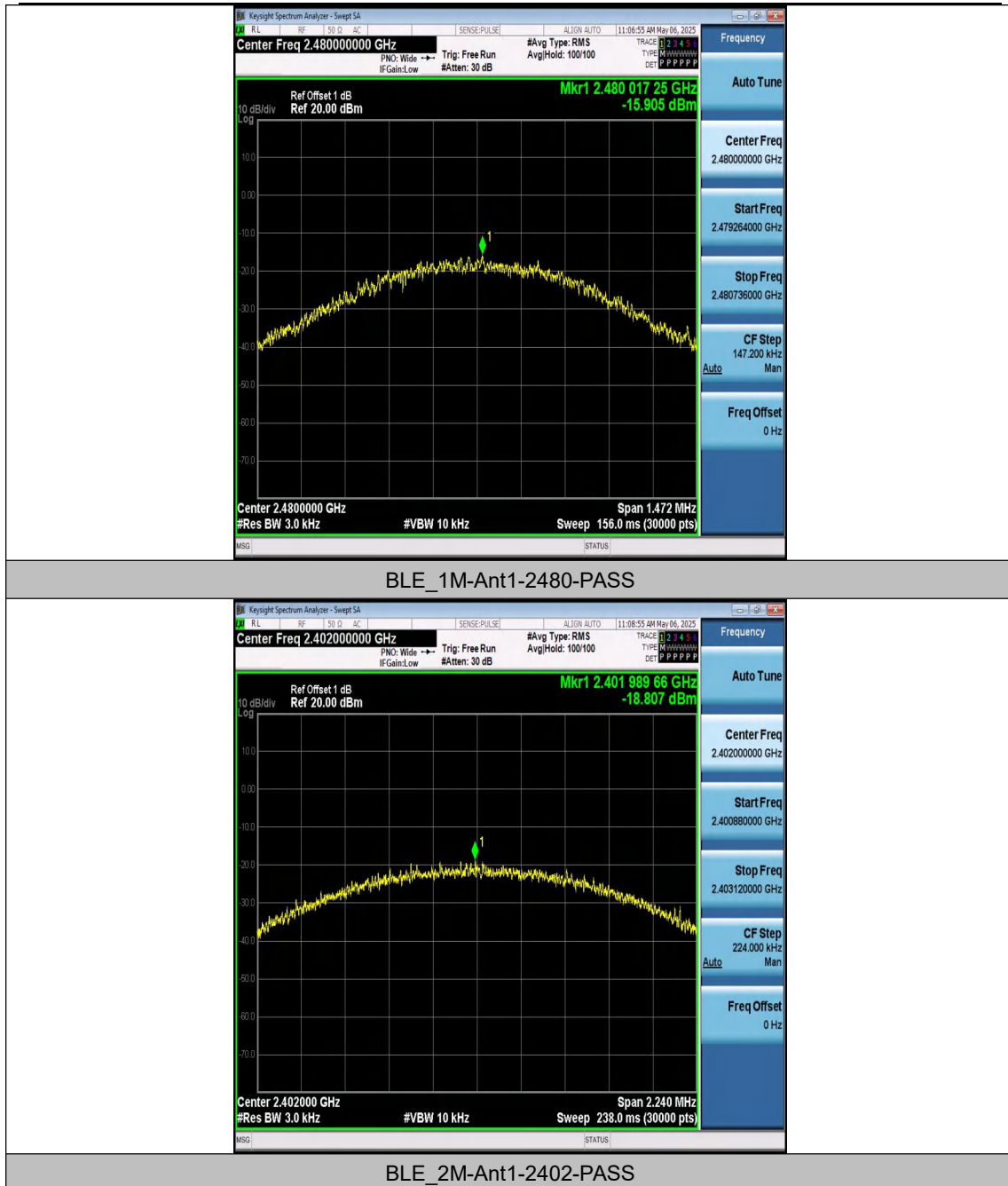


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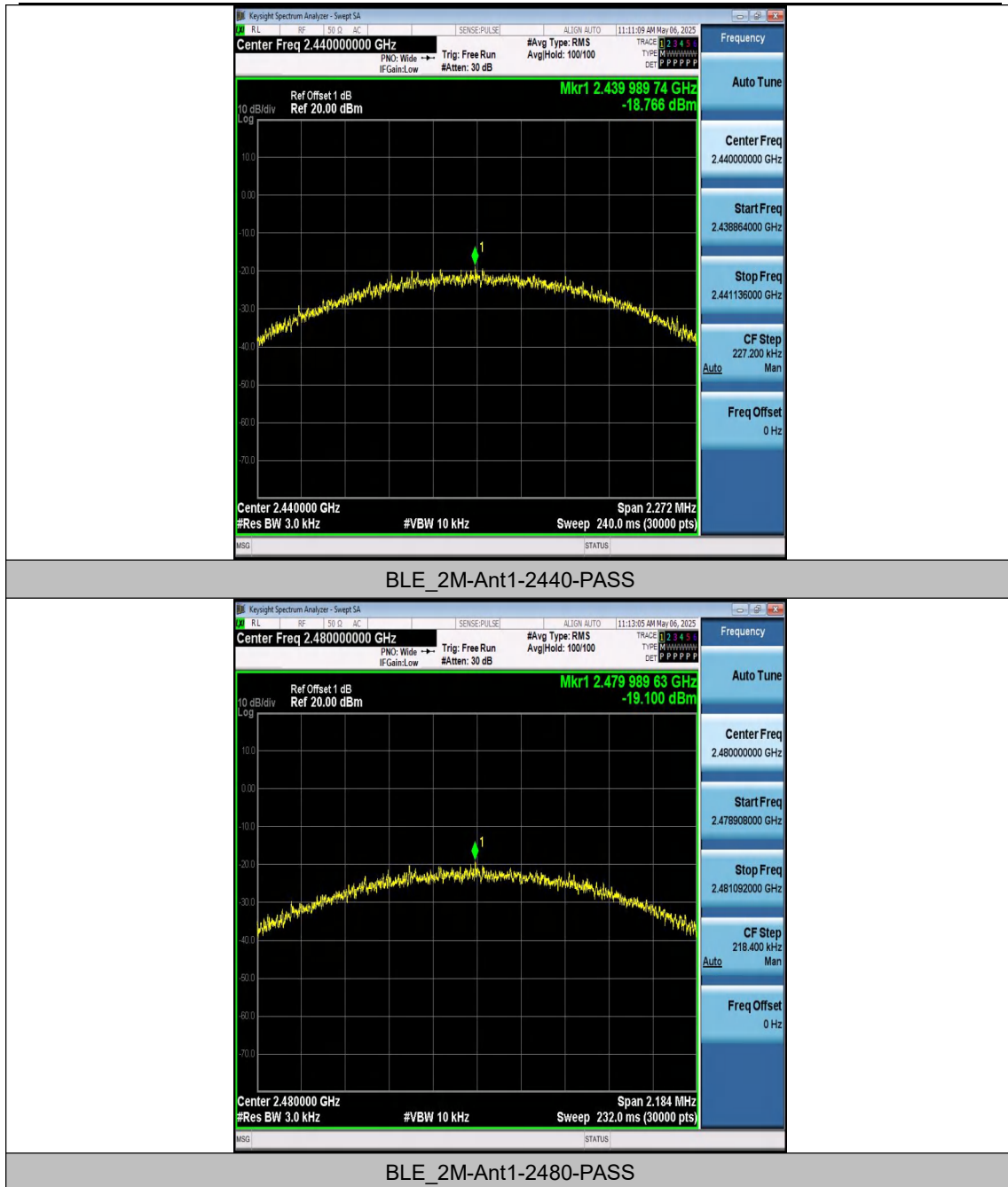


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Appendix E: Band edge measurements

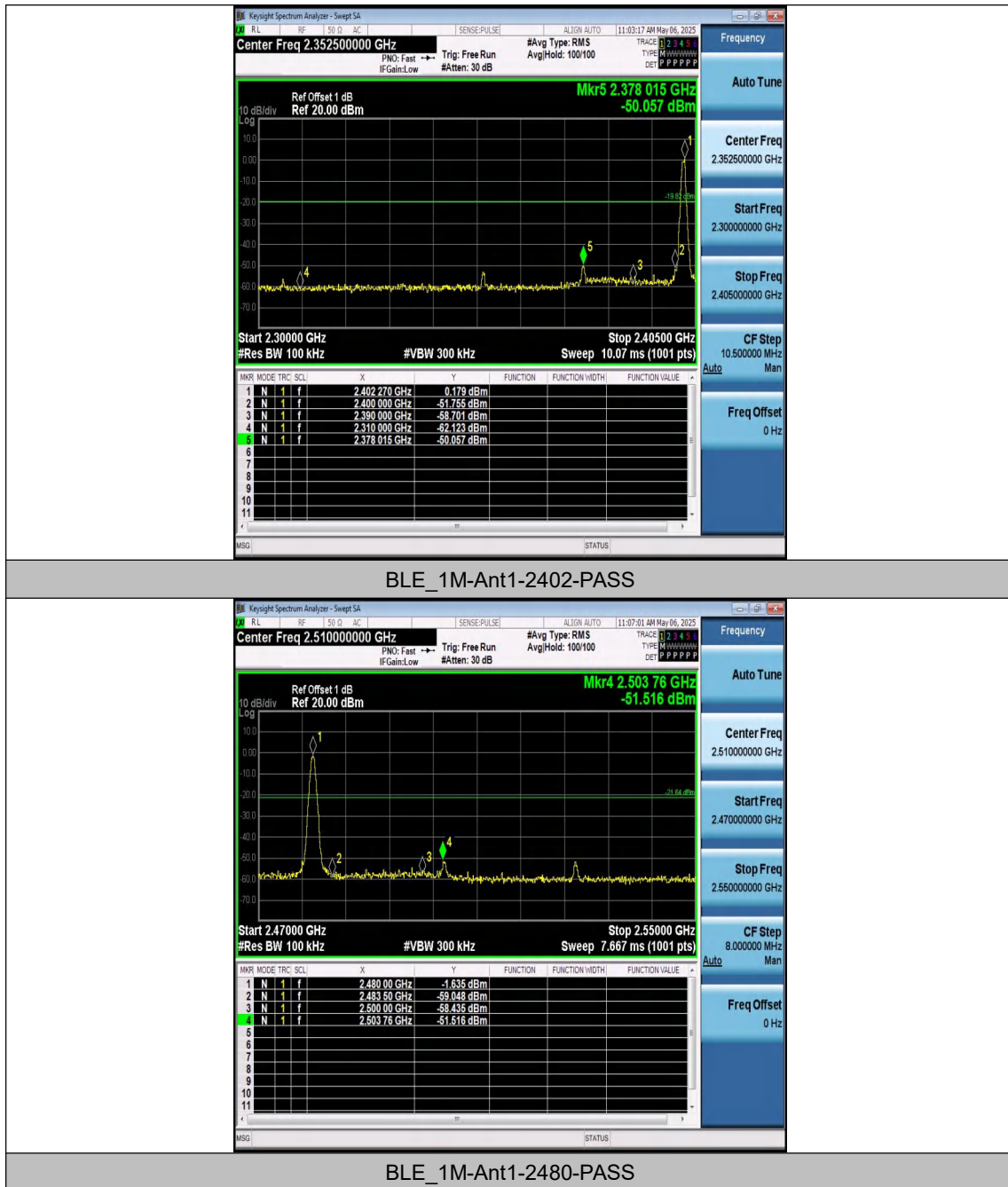
Test Result

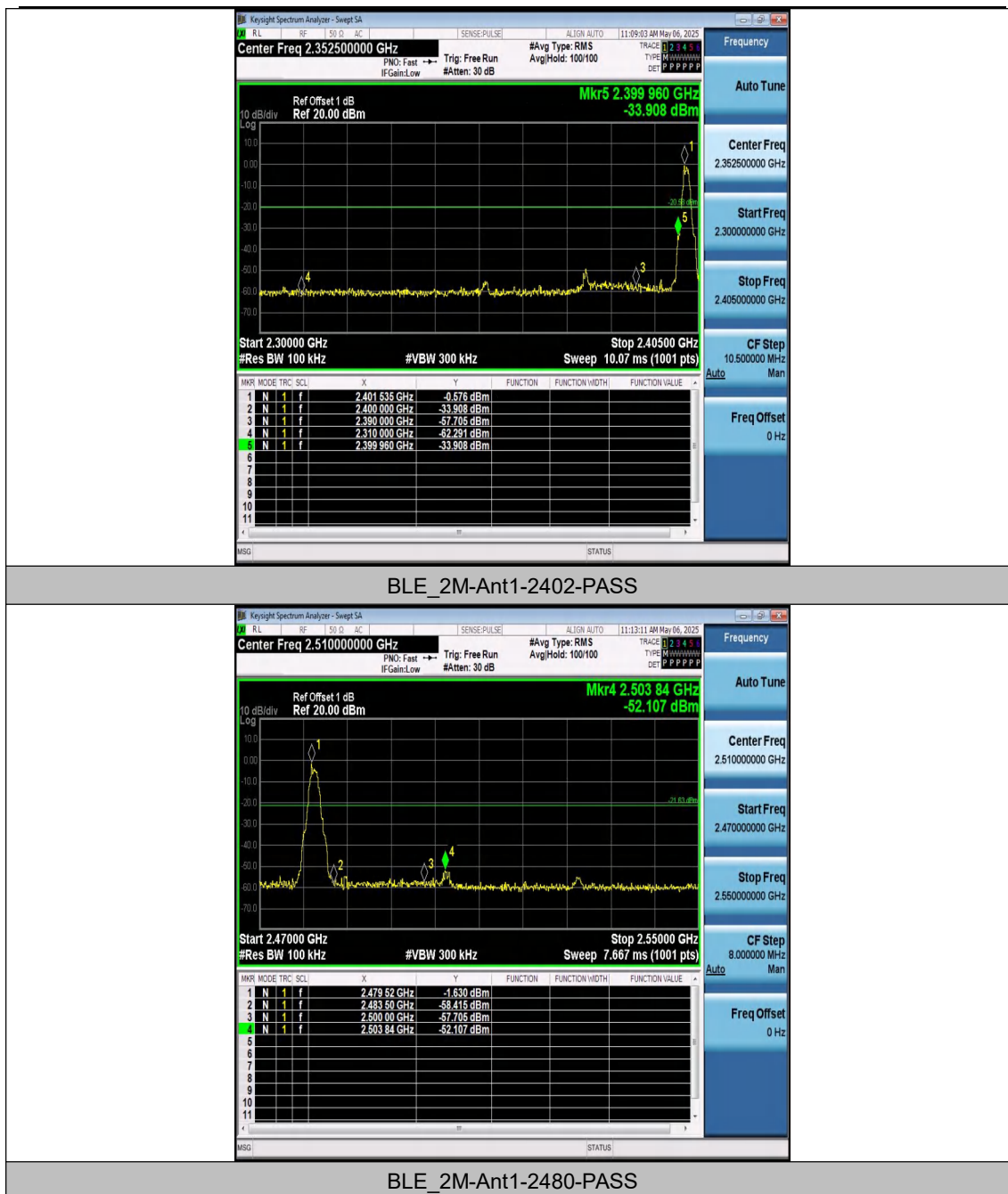
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.18	-50.06	≤-19.82	PASS
BLE_1M	Ant1	High	2480	-1.64	-51.52	≤-21.64	PASS
BLE_2M	Ant1	Low	2402	-0.58	-33.91	≤-20.58	PASS
BLE_2M	Ant1	High	2480	-1.63	-52.11	≤-21.63	PASS

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





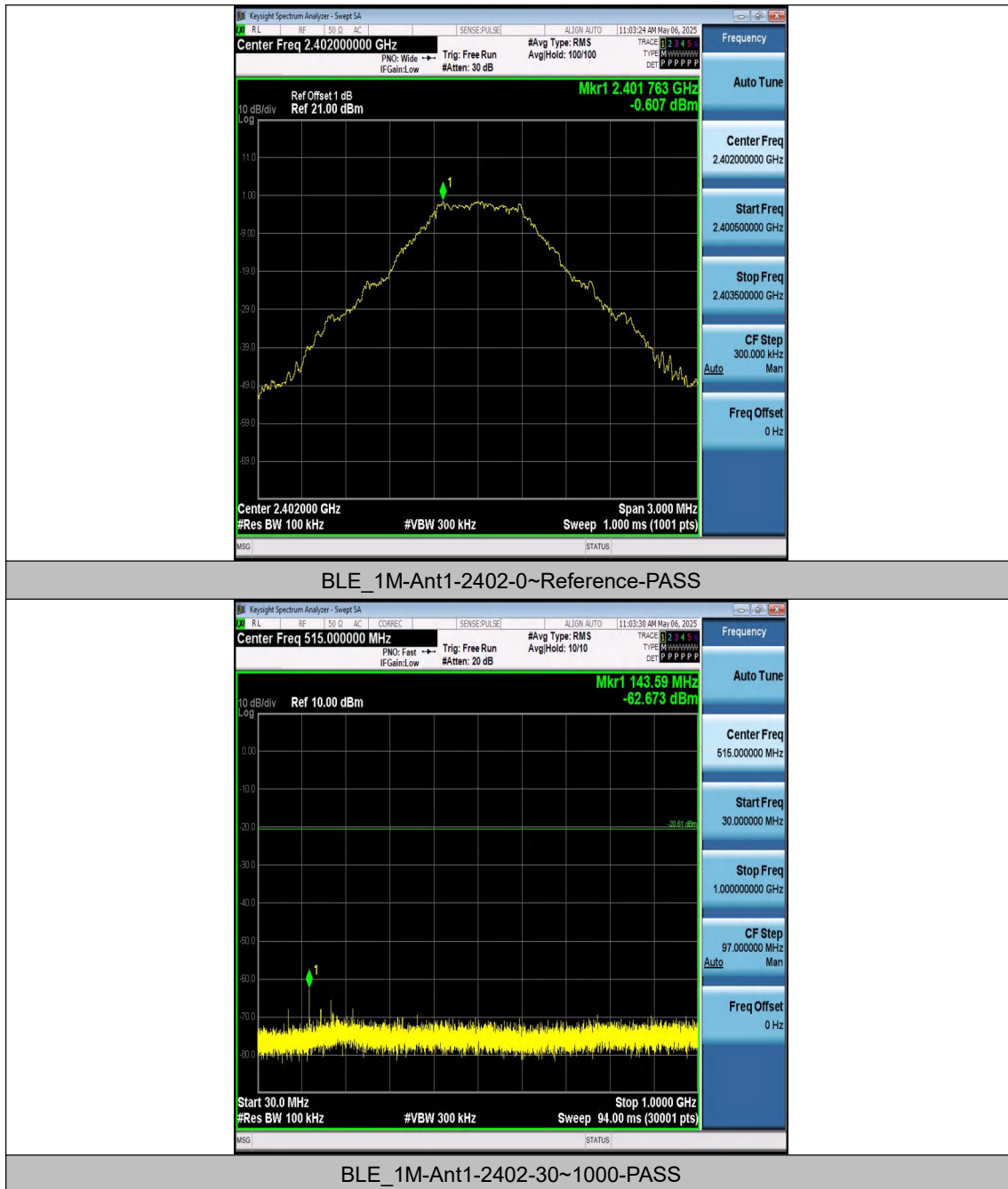
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.61	-0.61	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.61	-62.67	≤-20.61	PASS
BLE_1M	Ant1	2402	1000~26500	-0.61	-44.12	≤-20.61	PASS
BLE_1M	Ant1	2440	0~Reference	-0.67	-0.67	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.67	-63.06	≤-20.67	PASS
BLE_1M	Ant1	2440	1000~26500	-0.67	-44.43	≤-20.67	PASS
BLE_1M	Ant1	2480	0~Reference	-1.63	-1.63	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.63	-65.92	≤-21.63	PASS
BLE_1M	Ant1	2480	1000~26500	-1.63	-41.26	≤-21.63	PASS
BLE_2M	Ant1	2402	0~Reference	-0.61	-0.61	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.61	-63.22	≤-20.61	PASS
BLE_2M	Ant1	2402	1000~26500	-0.61	-44.29	≤-20.61	PASS
BLE_2M	Ant1	2440	0~Reference	-1.29	-1.29	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.29	-64.75	≤-21.29	PASS
BLE_2M	Ant1	2440	1000~26500	-1.29	-44.4	≤-21.29	PASS
BLE_2M	Ant1	2480	0~Reference	-2.05	-2.05	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.05	-62.35	≤-22.05	PASS
BLE_2M	Ant1	2480	1000~26500	-2.05	-41.33	≤-22.05	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.

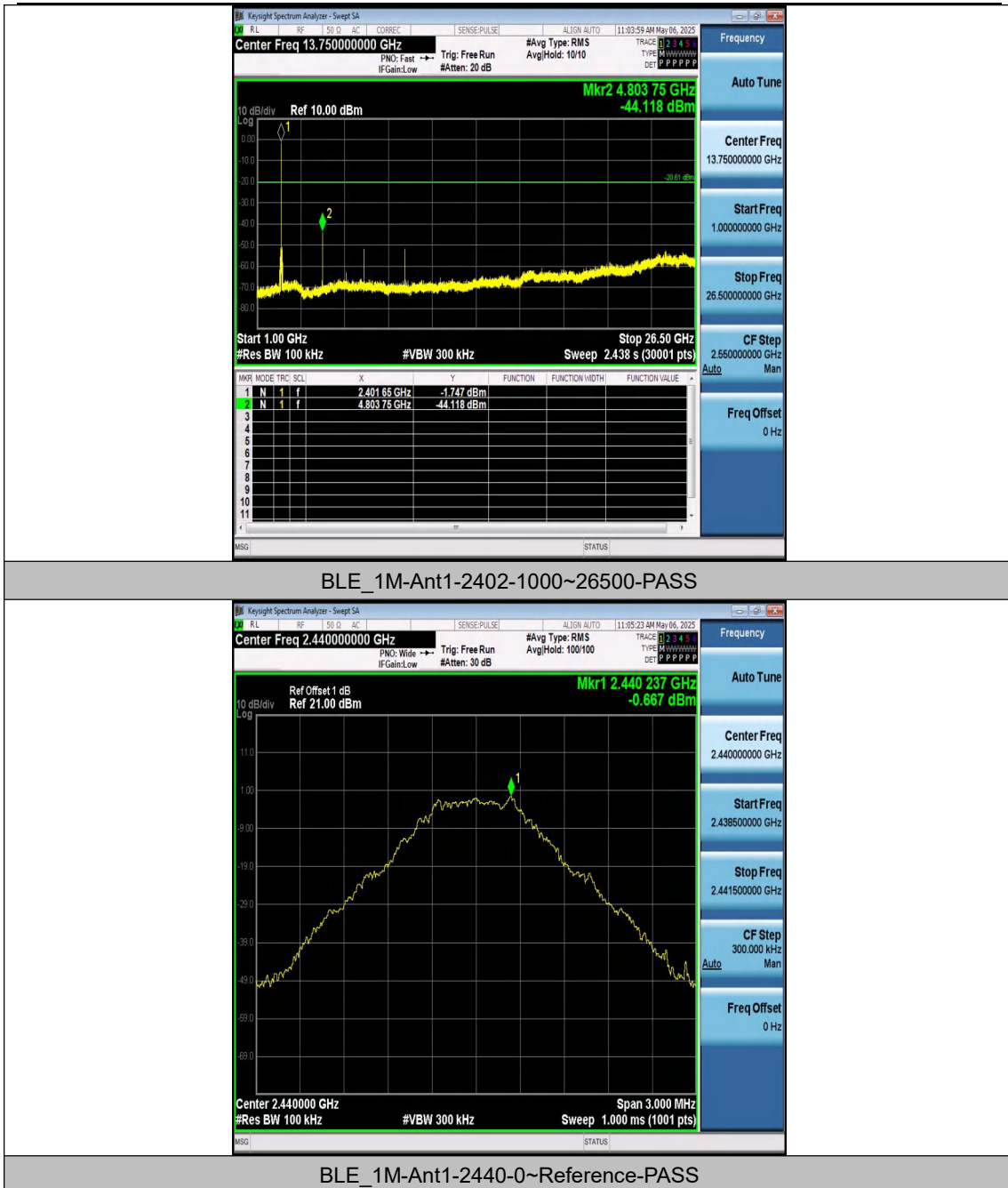
Test Graphs



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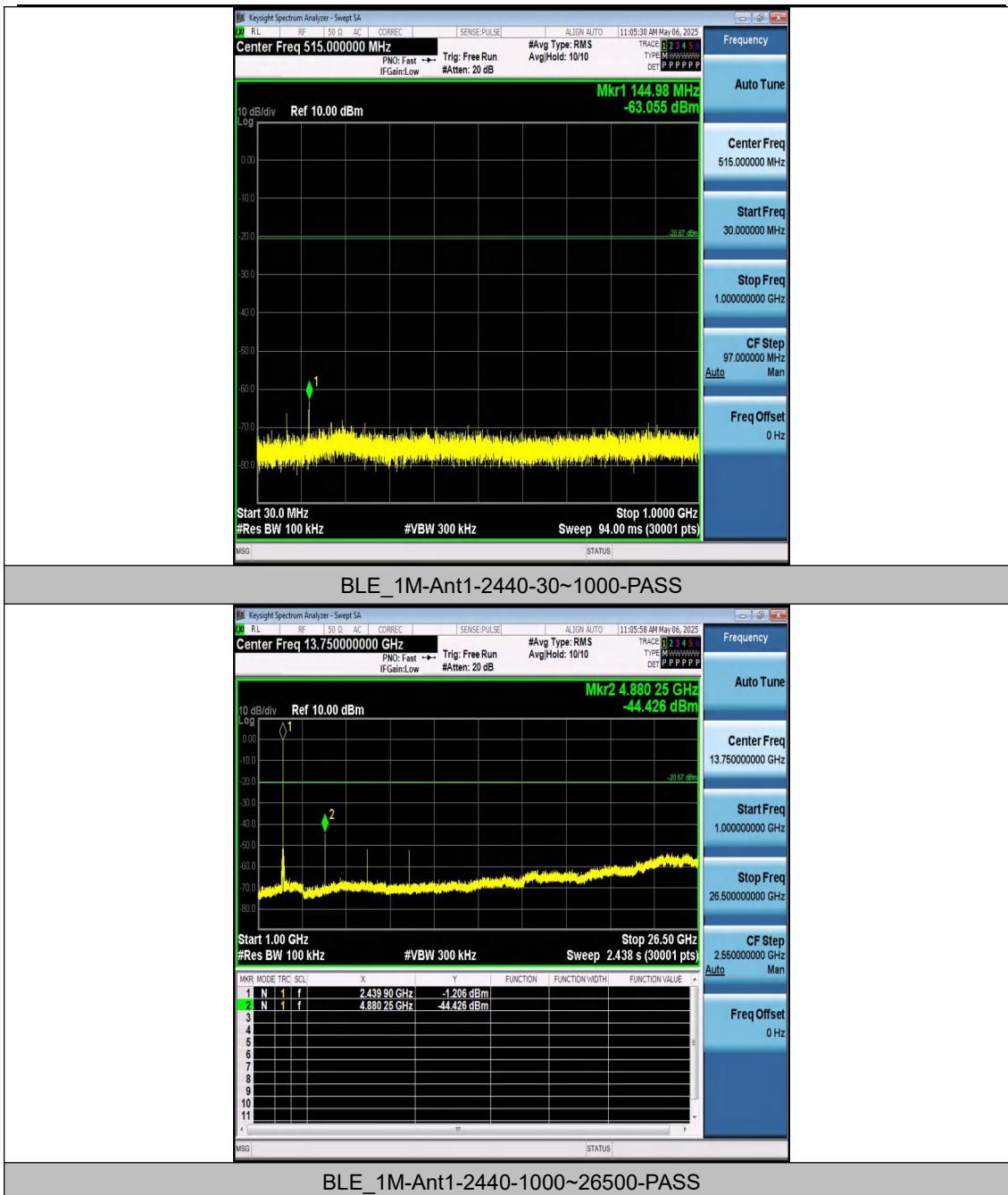
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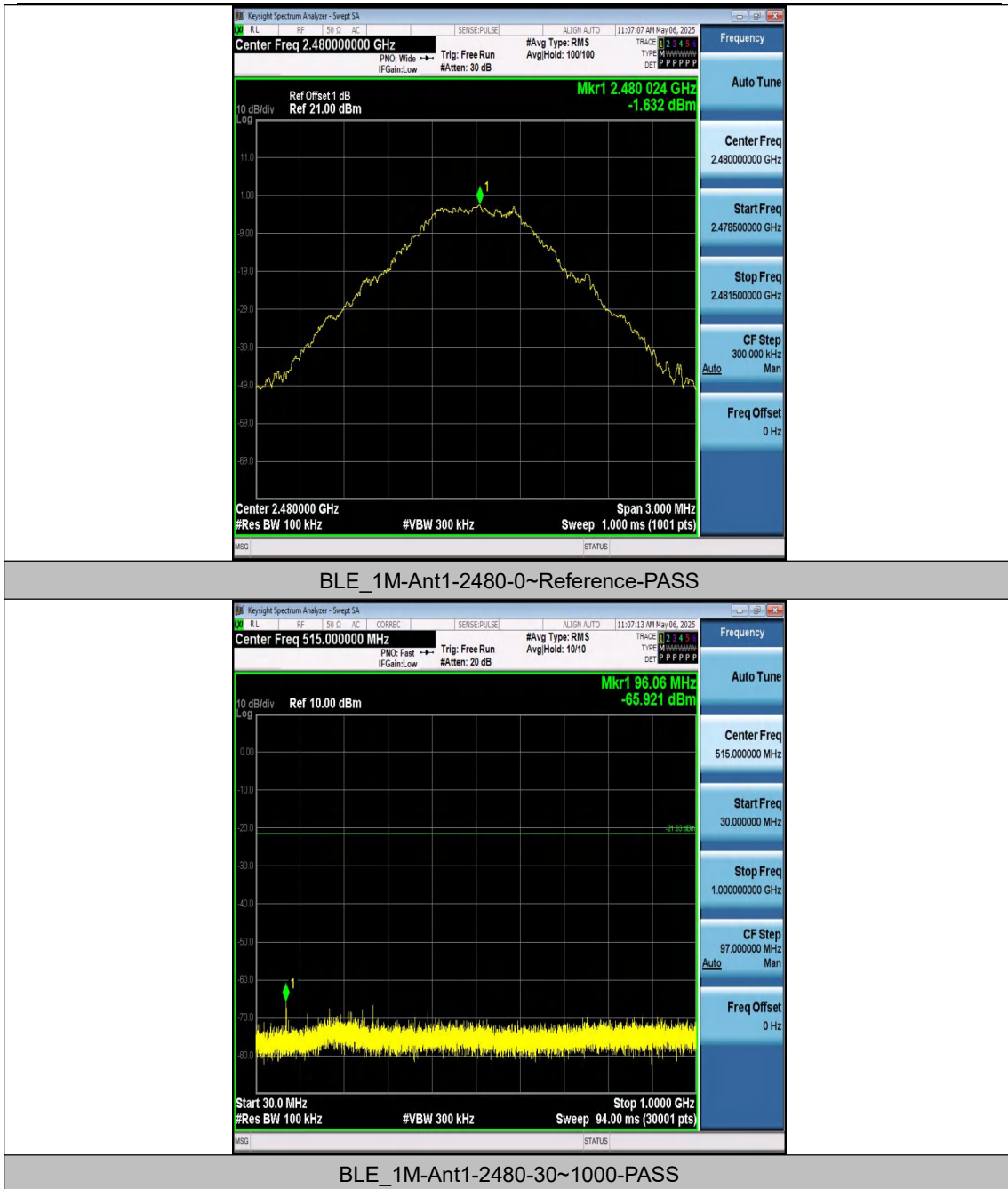


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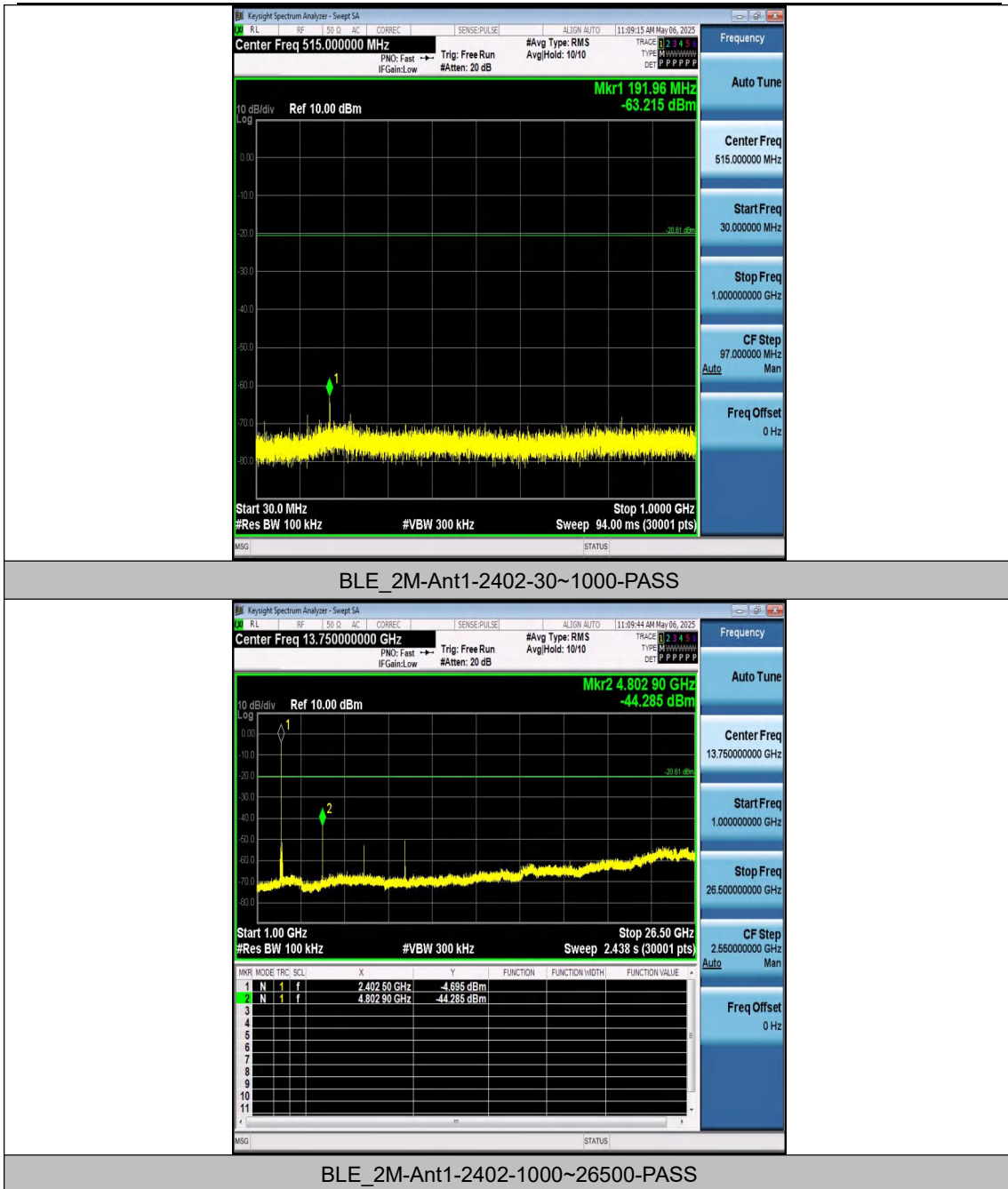


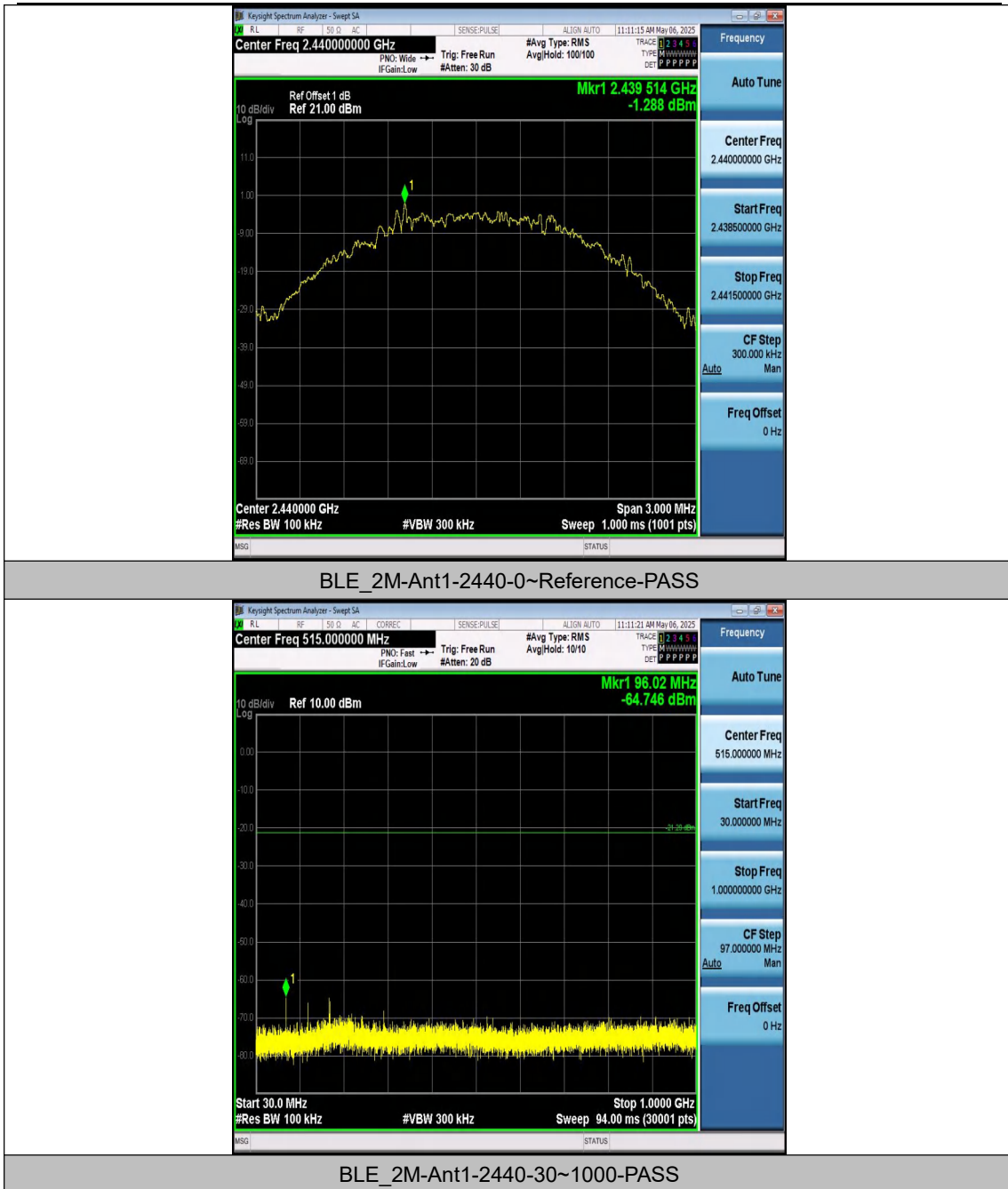


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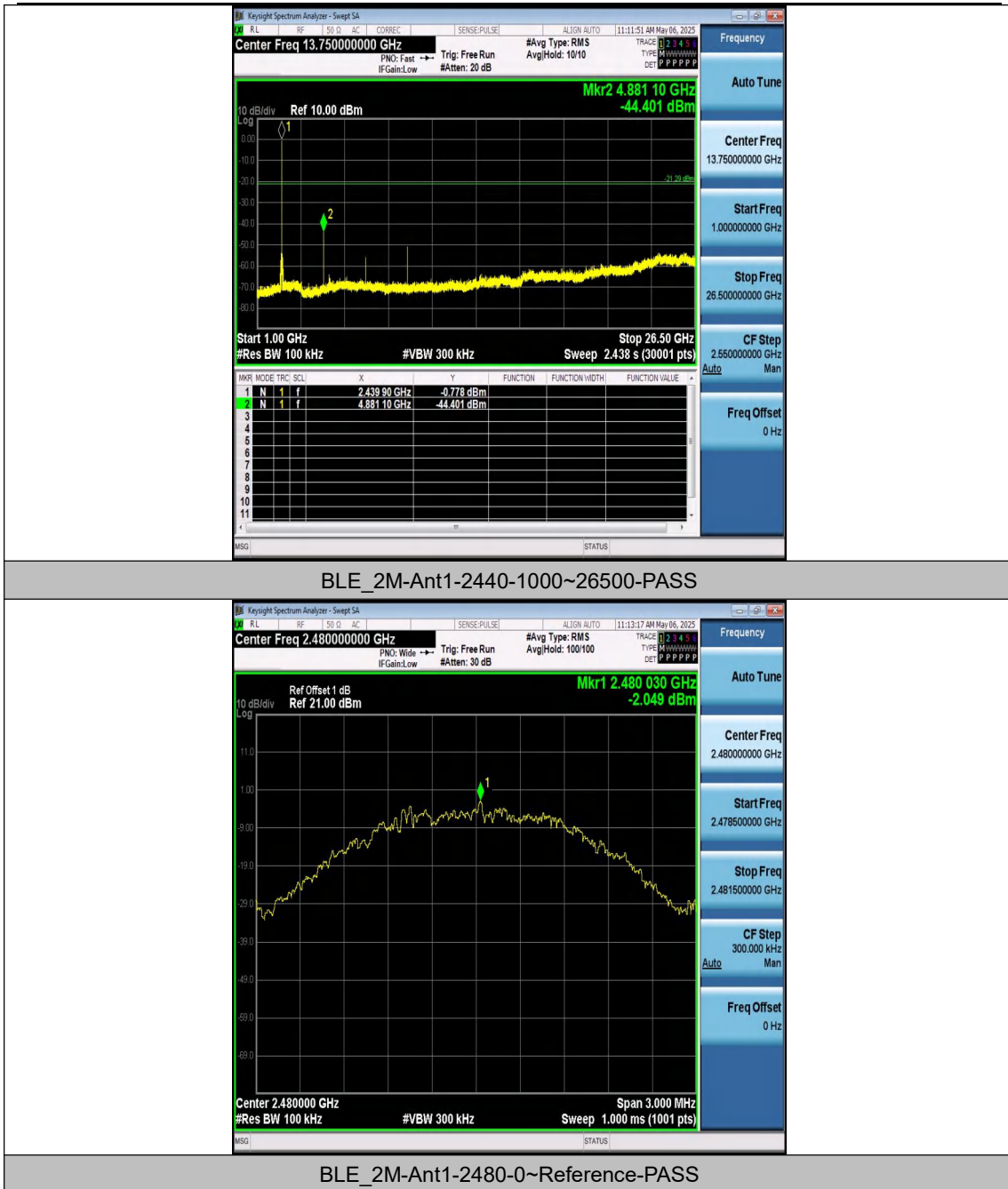


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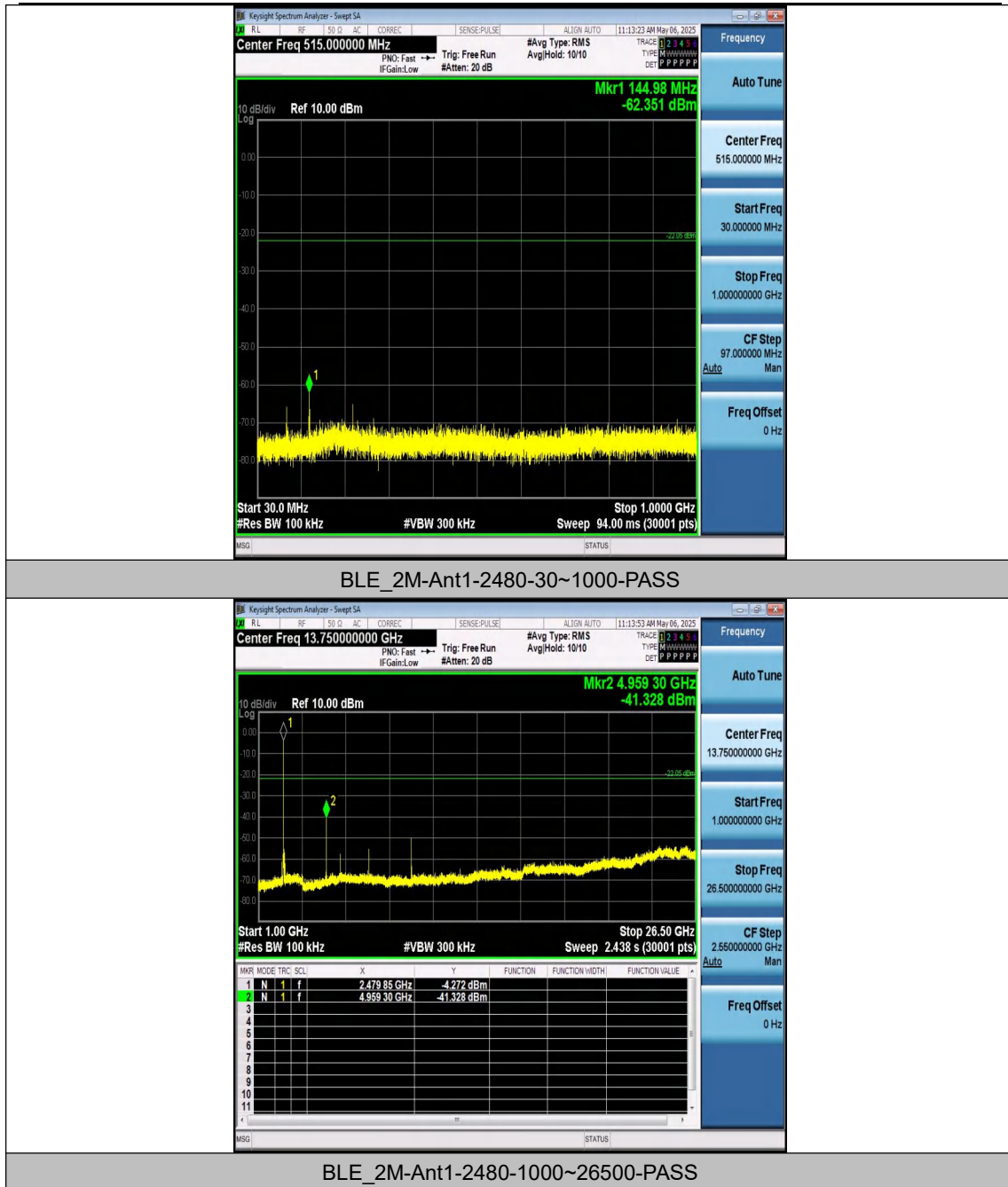


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Appendix G: Duty Cycle

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	2.13	2.50	85.20	0.70
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	1.06	2.49	42.57	3.71
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

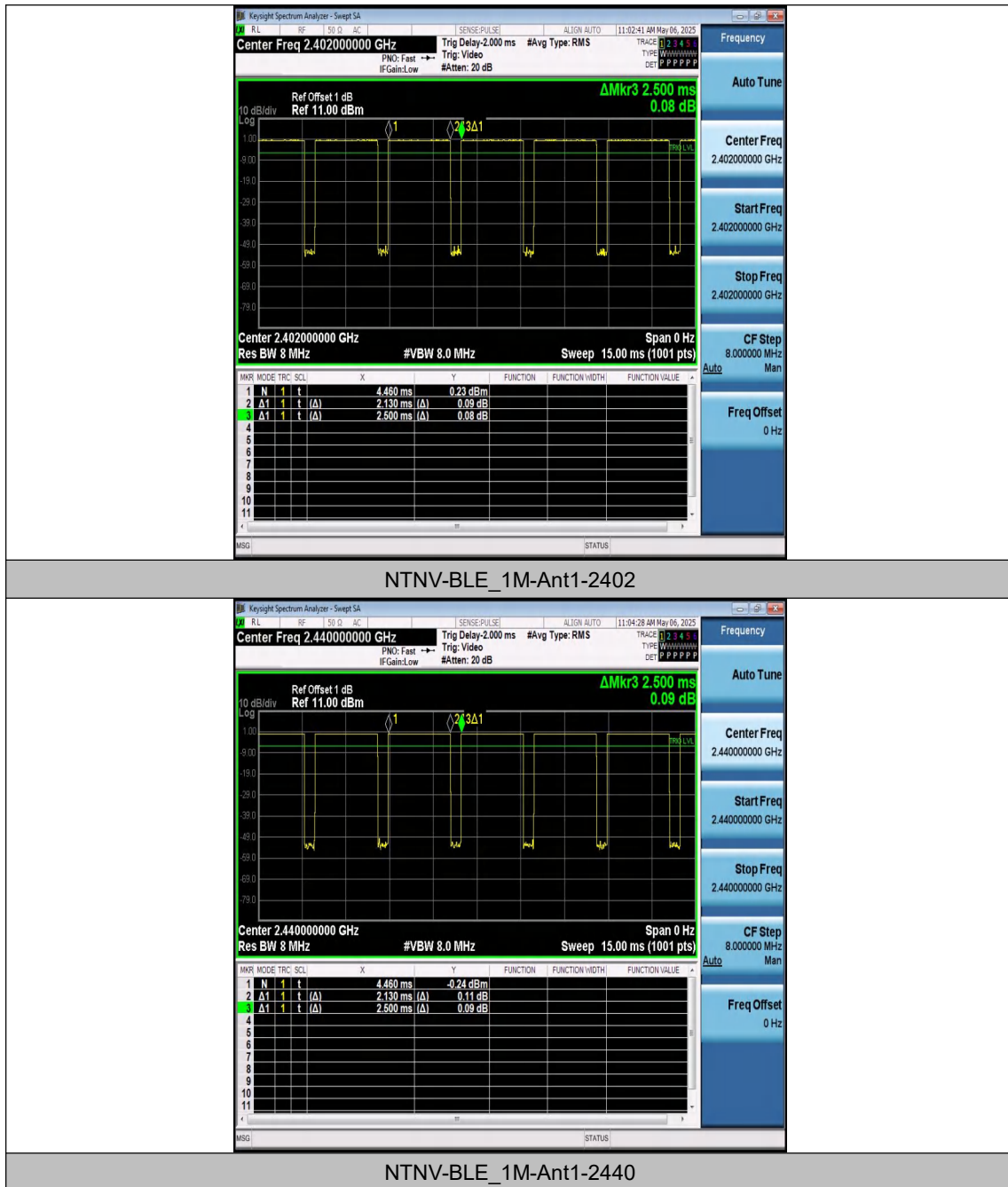
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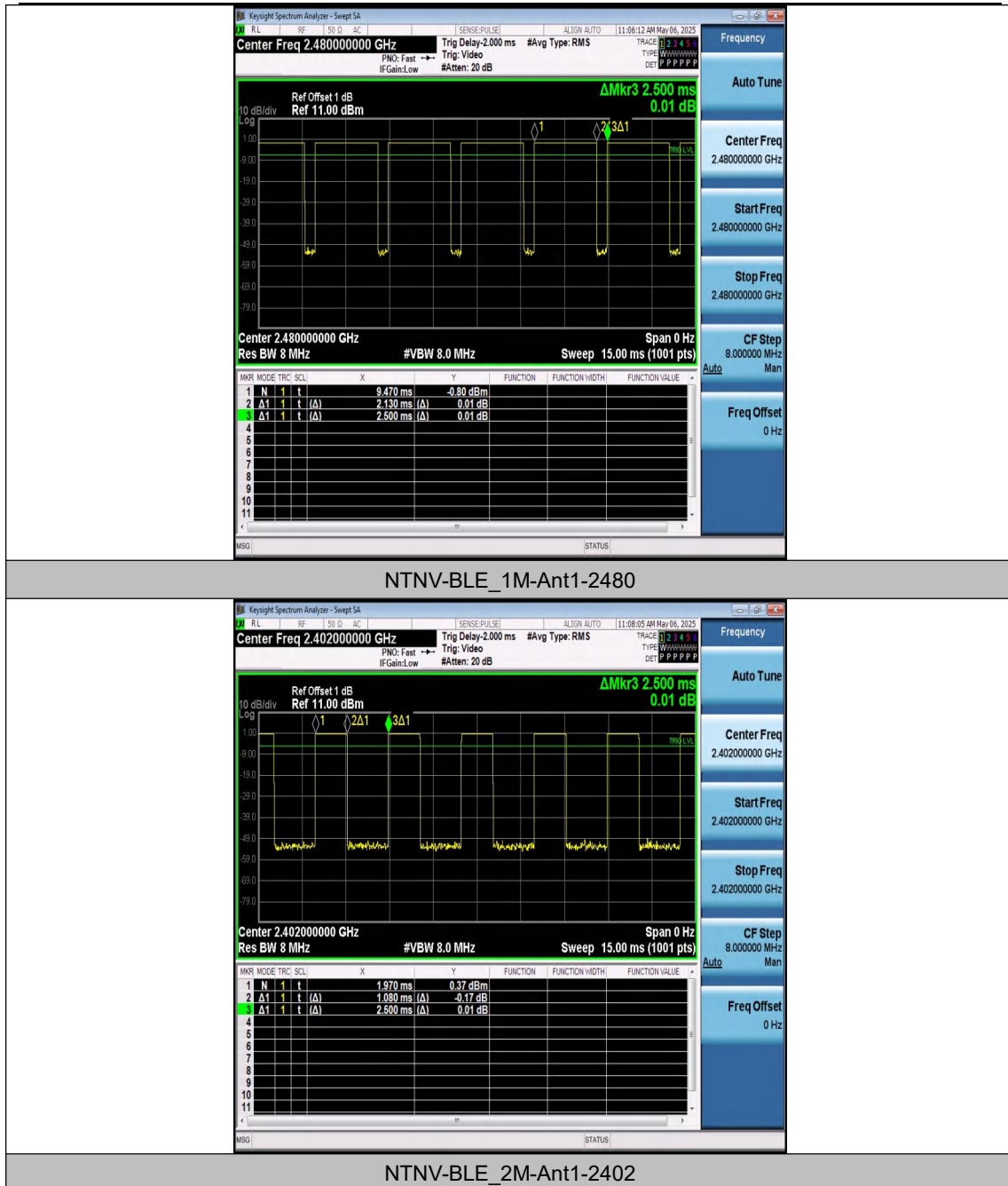
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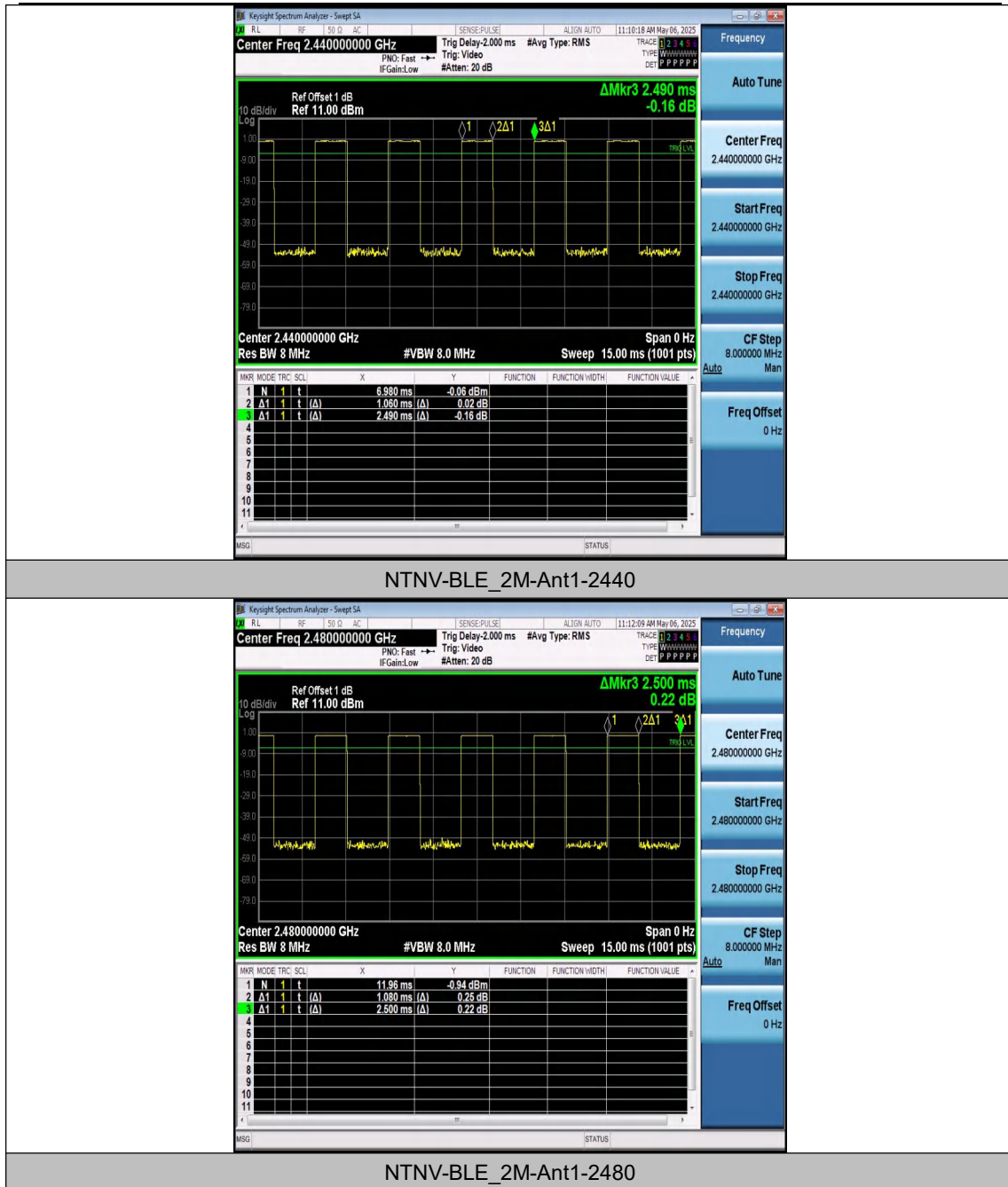


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Test Graphs







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