

Appendix Test Data

Report No.:	1812C50101912501	Test Sample No.:	1-2-2
Start Test Date:	2025.3.20	Finish Test Date:	2025.3.31
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	20.9°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	0.672	2401.652	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.624	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.732	2479.608	2480.340	0.5	PASS
BLE_2M	Ant1	2402	0.780	2401.576	2402.356	0.5	PASS
BLE_2M	Ant1	2440	0.860	2439.552	2440.412	0.5	PASS
BLE_2M	Ant1	2480	0.796	2479.628	2480.424	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	1.0669	2401.4490	2402.5159	---	---
BLE_1M	Ant1	2440	1.0553	2439.4605	2440.5158	---	---
BLE_1M	Ant1	2480	1.0645	2479.4466	2480.5111	---	---
BLE_2M	Ant1	2402	1.7750	2401.0991	2402.8741	---	---
BLE_2M	Ant1	2440	1.8141	2439.0746	2440.8887	---	---
BLE_2M	Ant1	2480	1.8204	2479.0687	2480.8891	---	---

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Test Graphs



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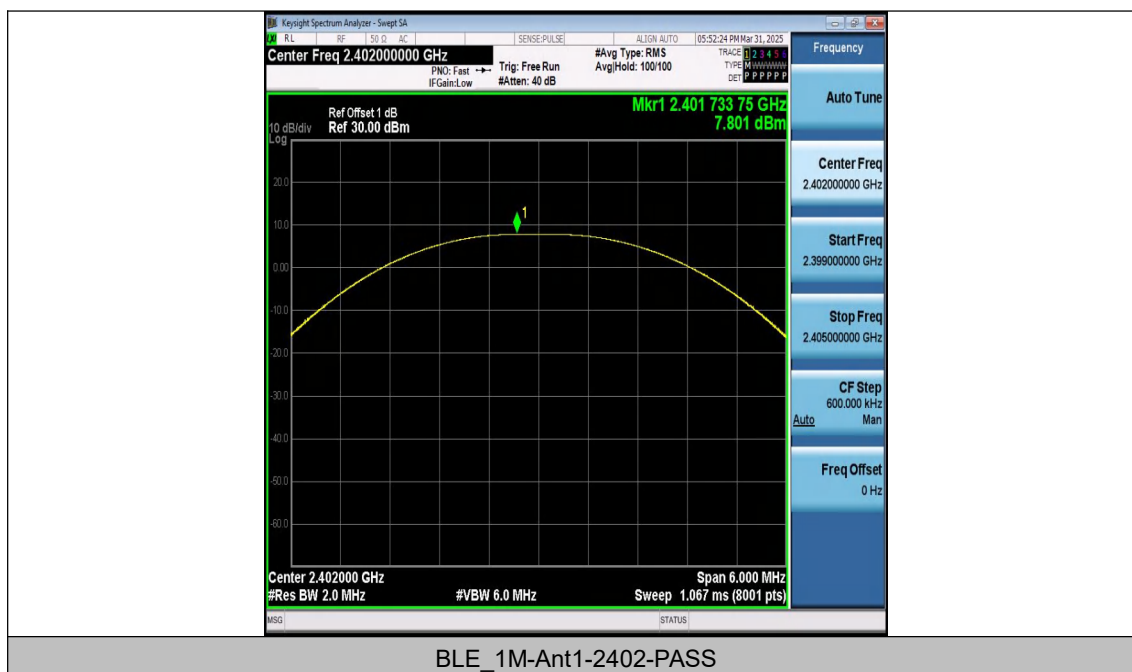


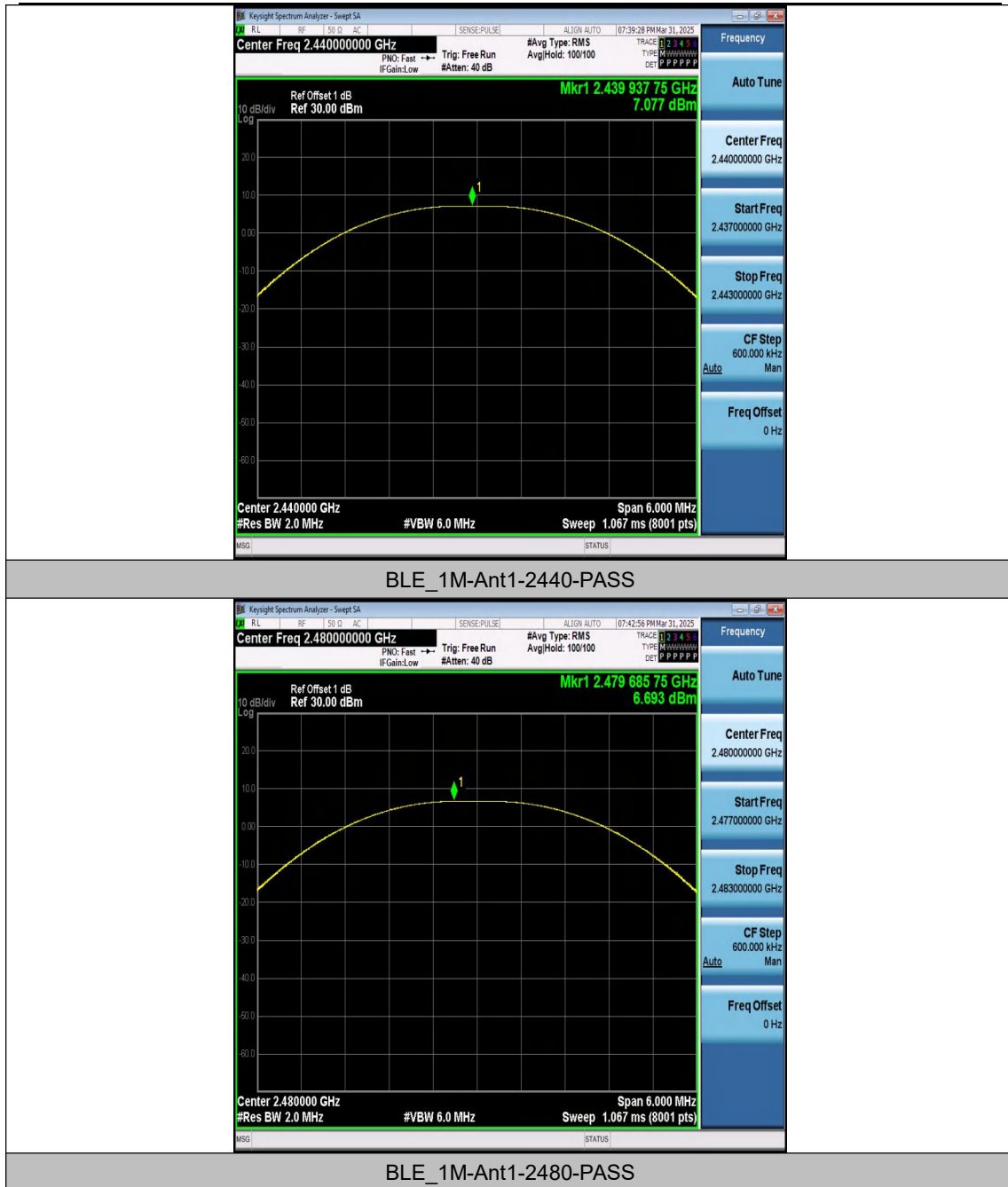
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.80	≤30	PASS
BLE_1M	Ant1	2440	7.08	≤30	PASS
BLE_1M	Ant1	2480	6.69	≤30	PASS
BLE_2M	Ant1	2402	7.66	≤30	PASS
BLE_2M	Ant1	2440	7.07	≤30	PASS
BLE_2M	Ant1	2480	6.70	≤30	PASS

Test Graphs Peak



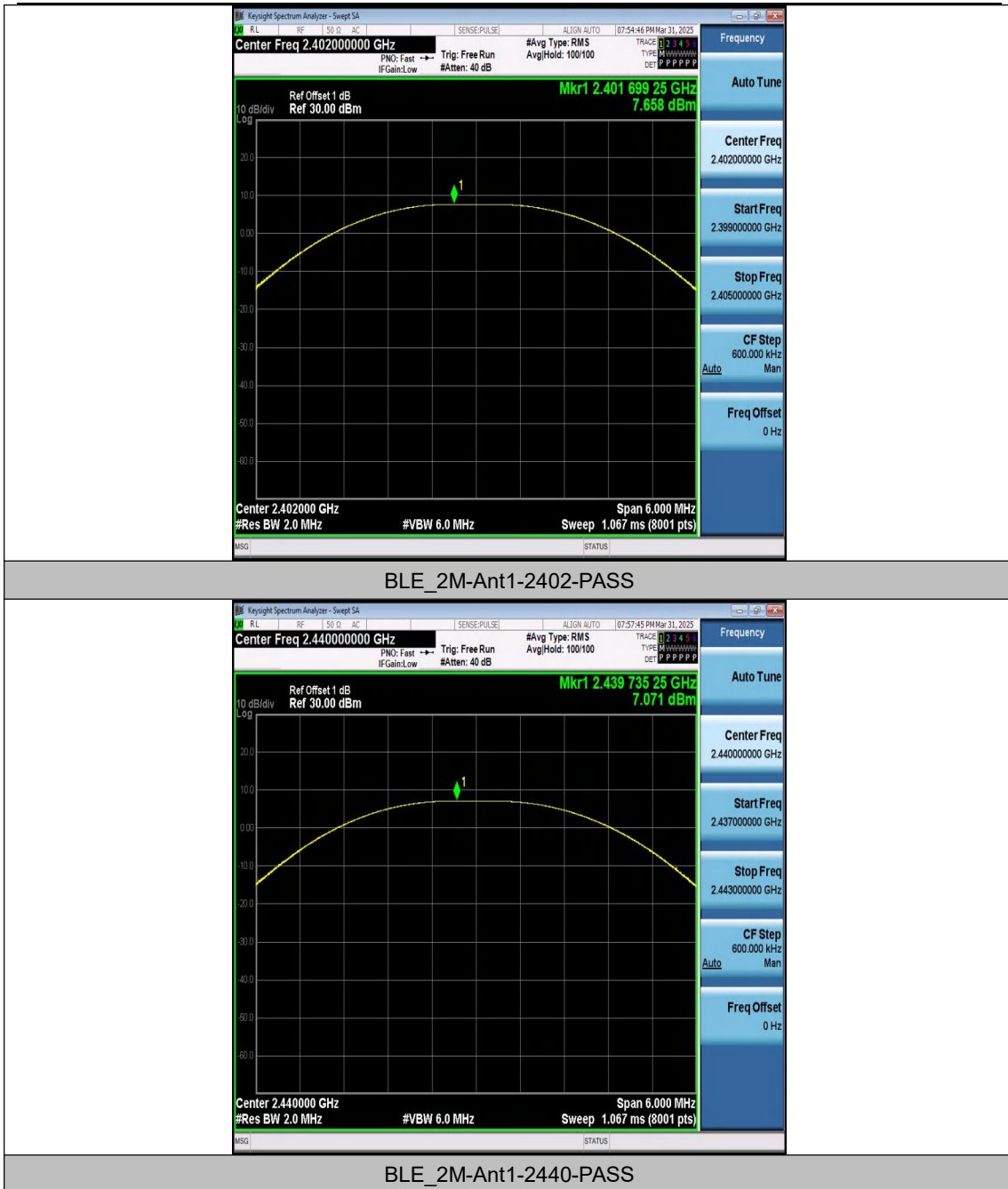


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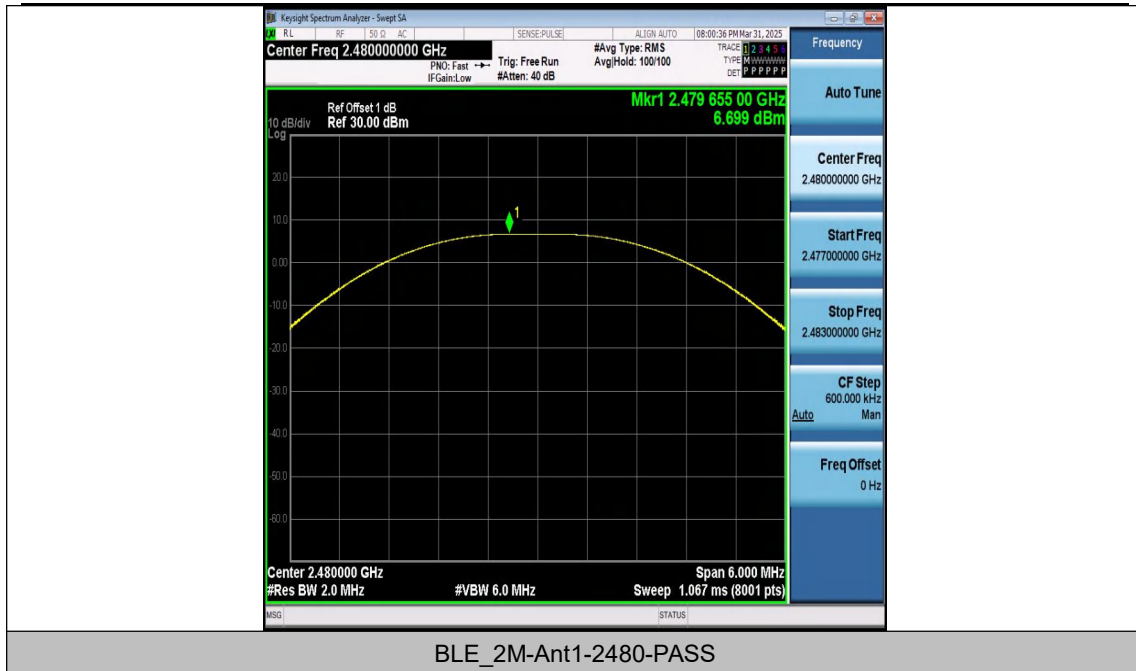


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Appendix D: Maximum power spectral density

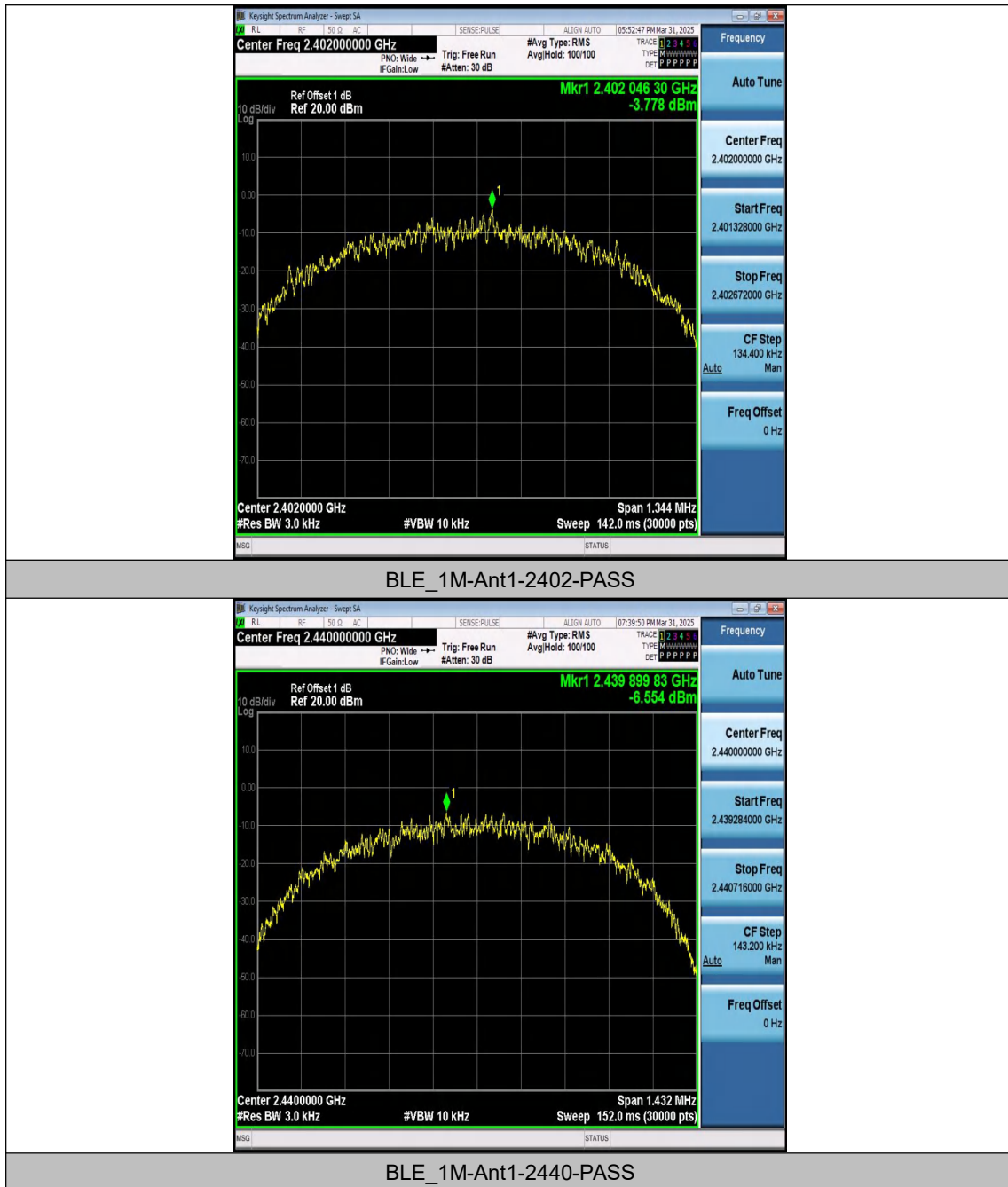
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.78	≤8.00	PASS
BLE_1M	Ant1	2440	-6.55	≤8.00	PASS
BLE_1M	Ant1	2480	-6.04	≤8.00	PASS
BLE_2M	Ant1	2402	-6.83	≤8.00	PASS
BLE_2M	Ant1	2440	-4.94	≤8.00	PASS
BLE_2M	Ant1	2480	-6.90	≤8.00	PASS

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



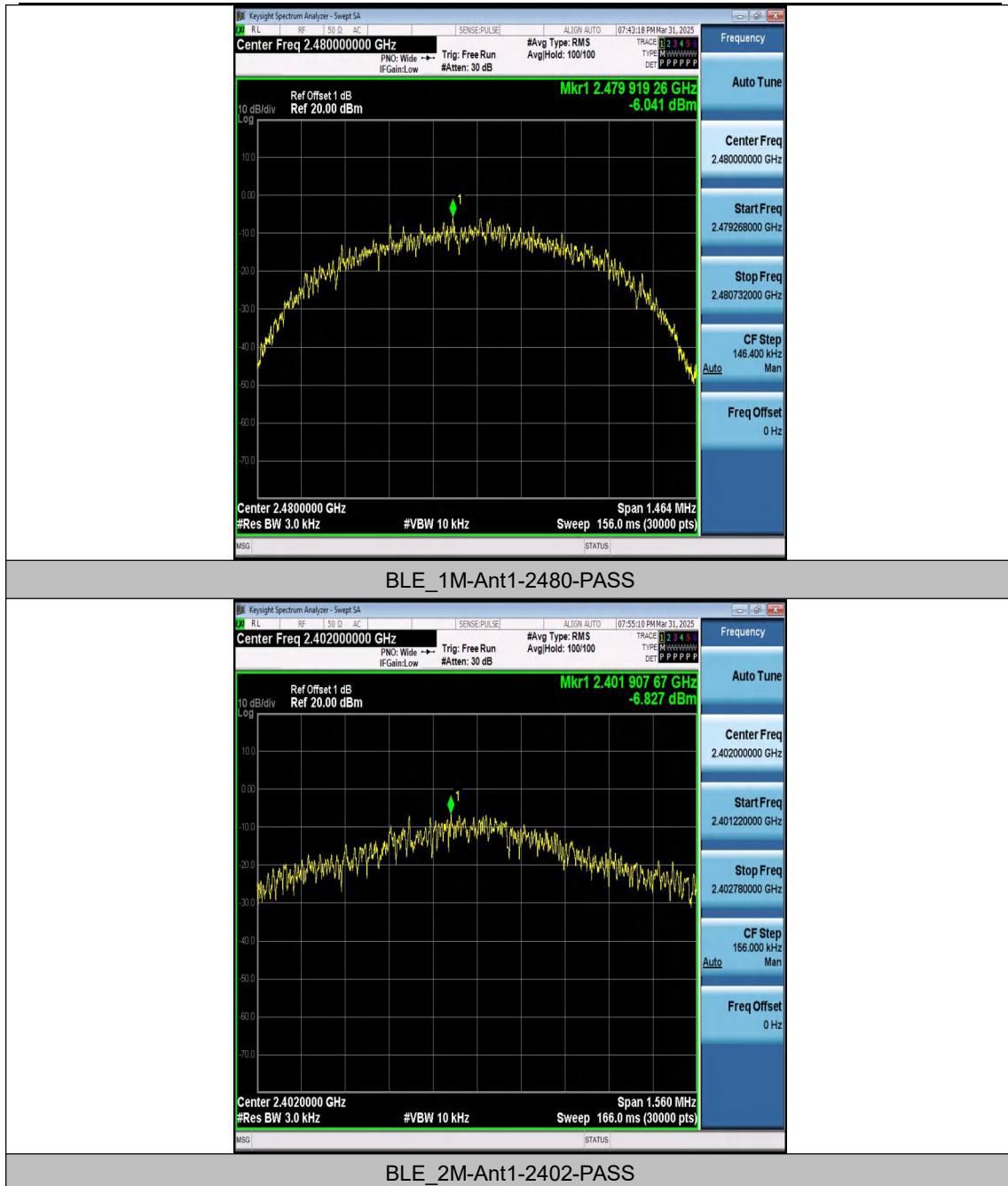
Test Graphs



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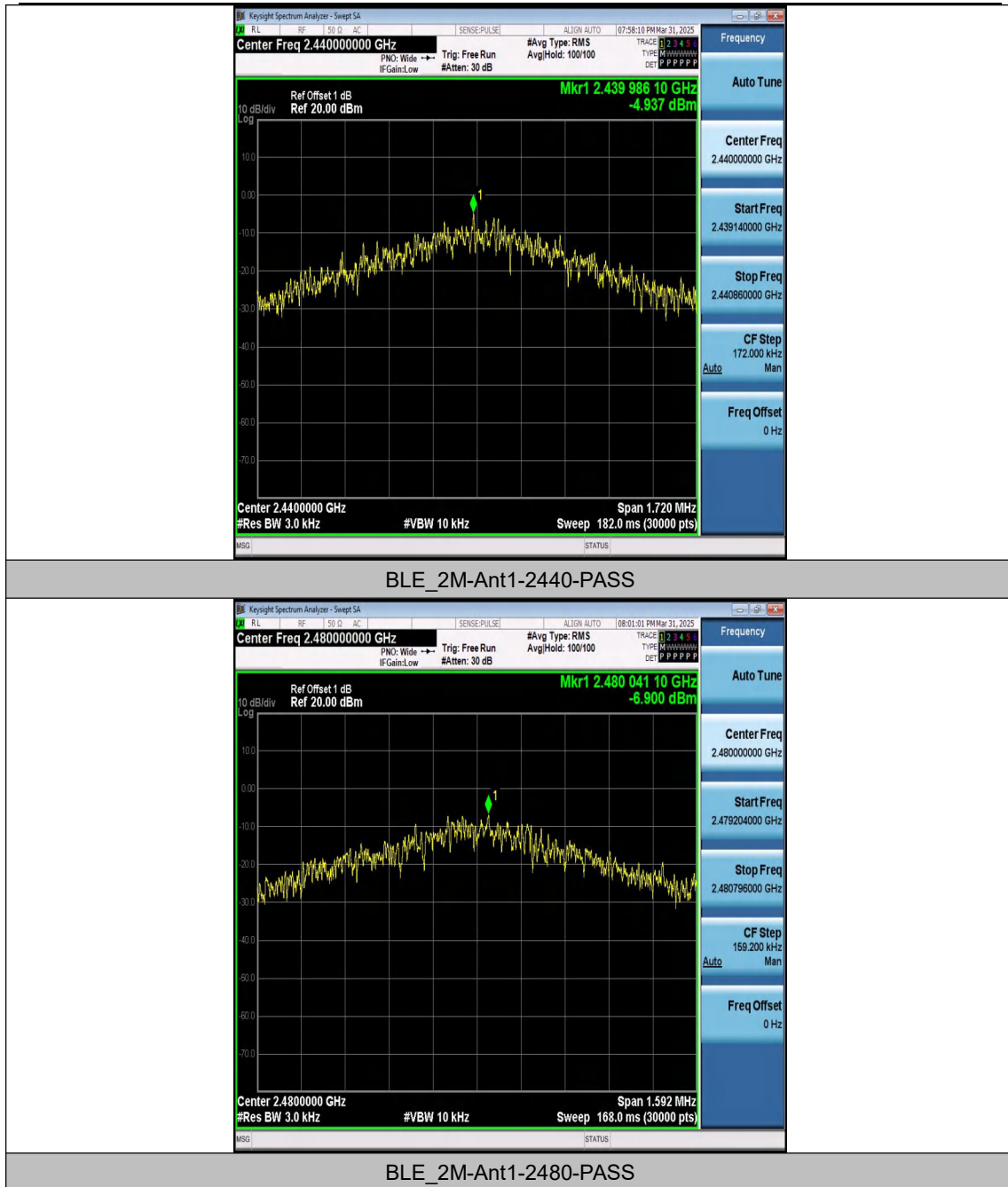
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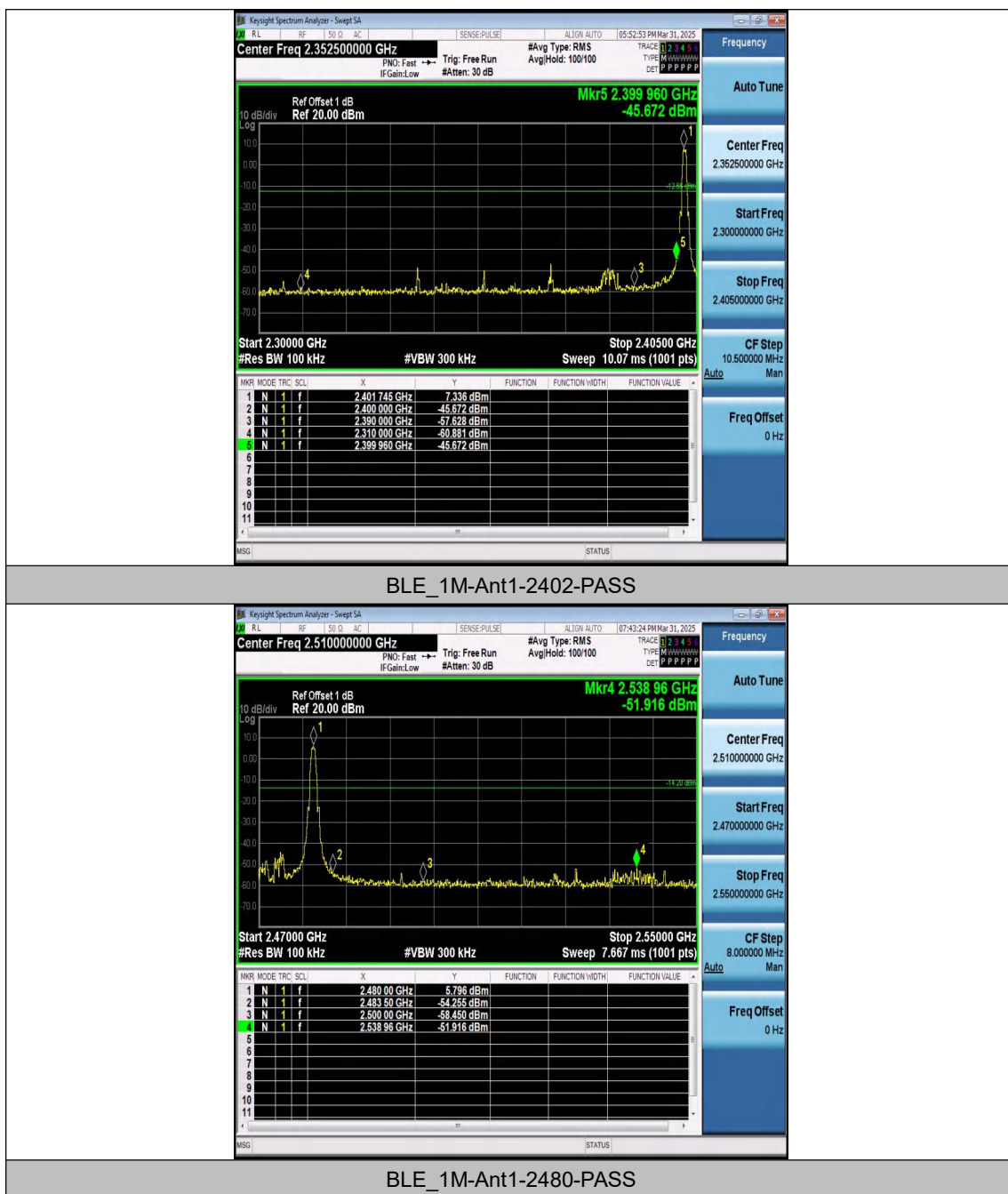
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.34	-45.67	≤-12.66	PASS
BLE_1M	Ant1	High	2480	5.80	-51.92	≤-14.2	PASS
BLE_2M	Ant1	Low	2402	7.01	-31.99	≤-12.99	PASS
BLE_2M	Ant1	High	2480	5.75	-48.42	≤-14.25	PASS



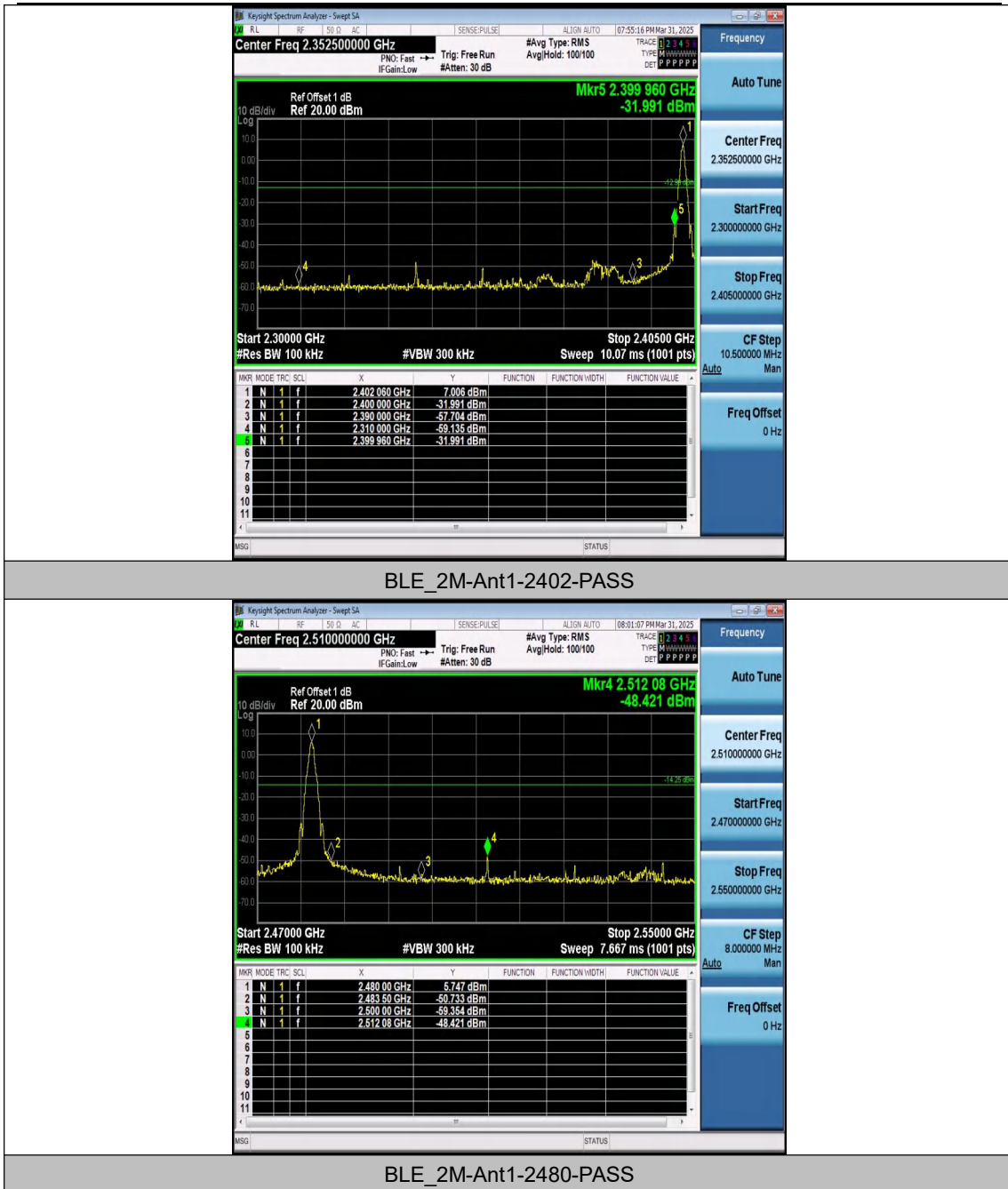
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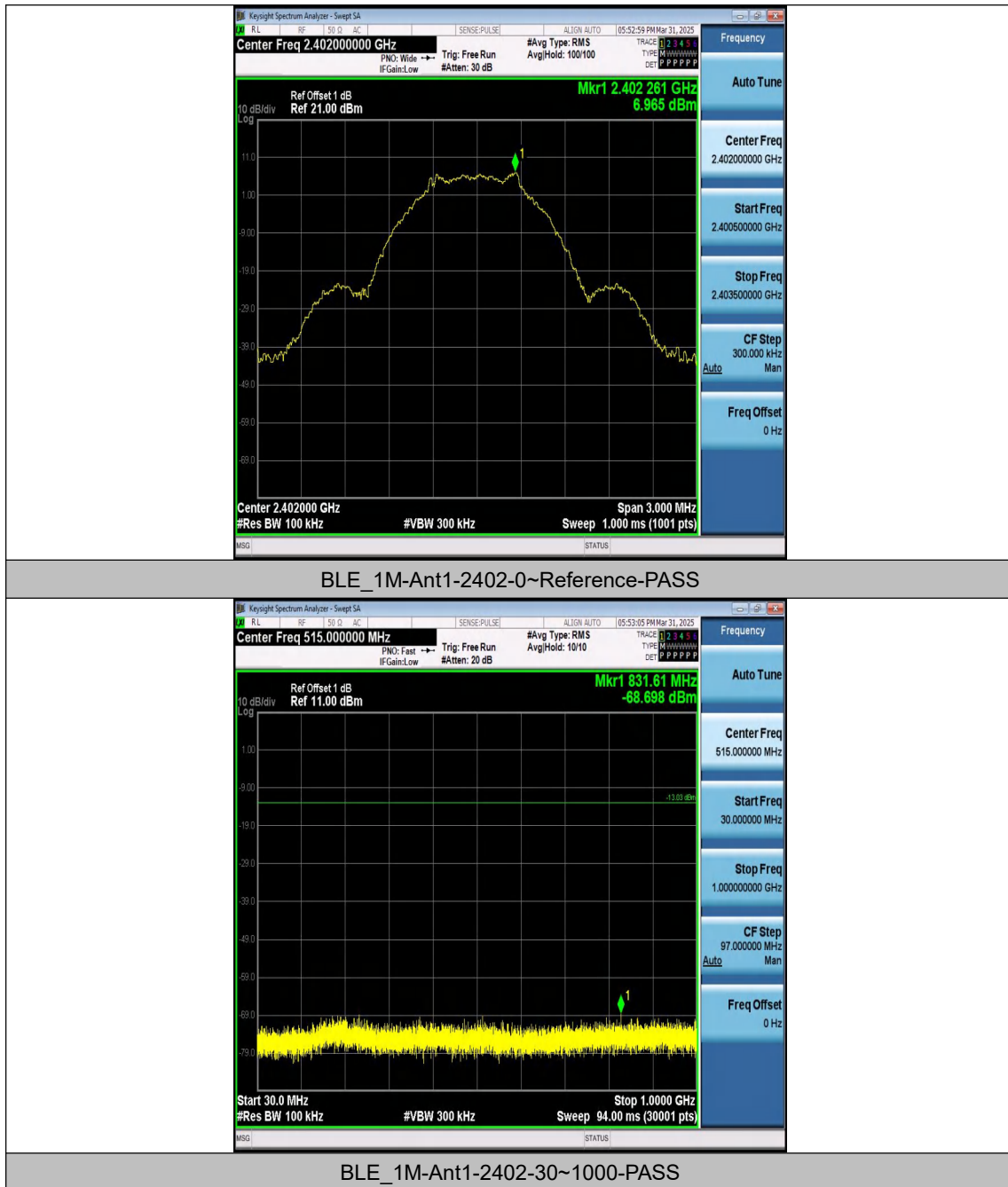
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	6.97	6.97	---	PASS
BLE_1M	Ant1	2402	30~1000	6.97	-68.7	≤-13.03	PASS
BLE_1M	Ant1	2402	1000~26500	6.97	-32.27	≤-13.03	PASS
BLE_1M	Ant1	2440	0~Reference	6.12	6.12	---	PASS
BLE_1M	Ant1	2440	30~1000	6.12	-68.59	≤-13.88	PASS
BLE_1M	Ant1	2440	1000~26500	6.12	-32.39	≤-13.88	PASS
BLE_1M	Ant1	2480	0~Reference	5.77	5.77	---	PASS
BLE_1M	Ant1	2480	30~1000	5.77	-67.59	≤-14.23	PASS
BLE_1M	Ant1	2480	1000~26500	5.77	-37.27	≤-14.23	PASS
BLE_2M	Ant1	2402	0~Reference	6.86	6.86	---	PASS
BLE_2M	Ant1	2402	30~1000	6.86	-69.01	≤-13.14	PASS
BLE_2M	Ant1	2402	1000~26500	6.86	-33.73	≤-13.14	PASS
BLE_2M	Ant1	2440	0~Reference	6.26	6.26	---	PASS
BLE_2M	Ant1	2440	30~1000	6.26	-69.16	≤-13.74	PASS
BLE_2M	Ant1	2440	1000~26500	6.26	-34.73	≤-13.74	PASS
BLE_2M	Ant1	2480	0~Reference	5.77	5.77	---	PASS
BLE_2M	Ant1	2480	30~1000	5.77	-67.68	≤-14.23	PASS
BLE_2M	Ant1	2480	1000~26500	5.77	-38.91	≤-14.23	PASS



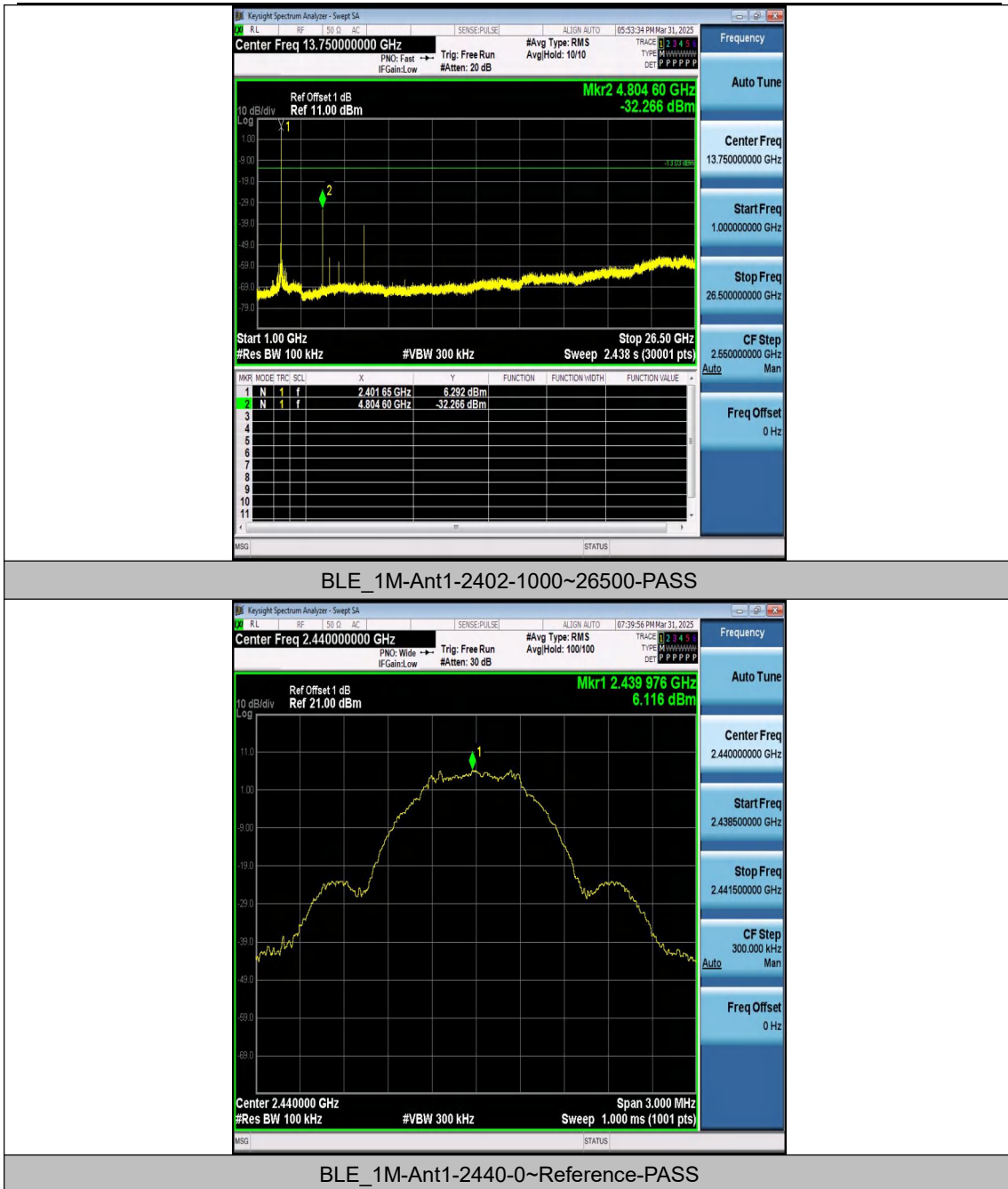
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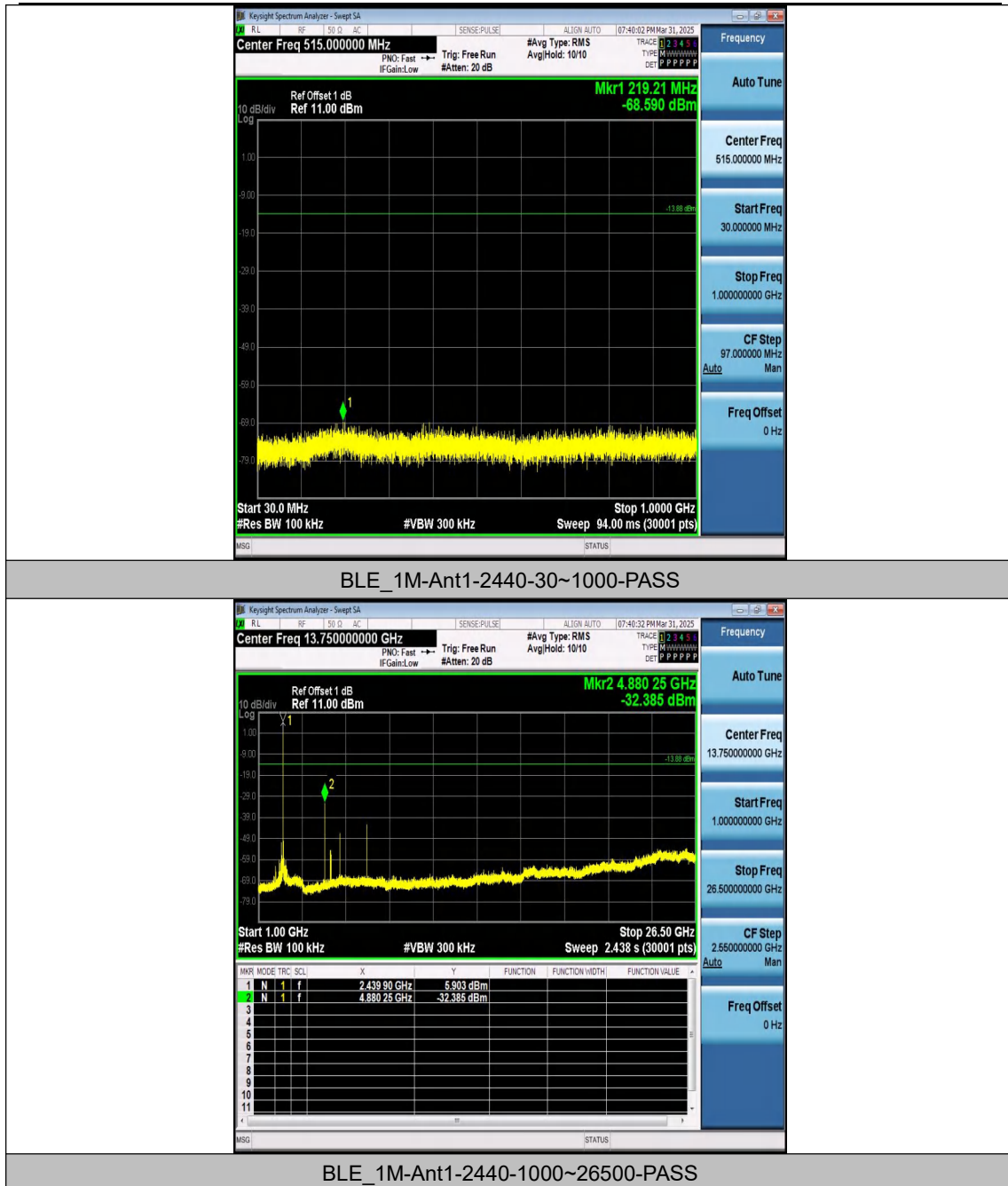


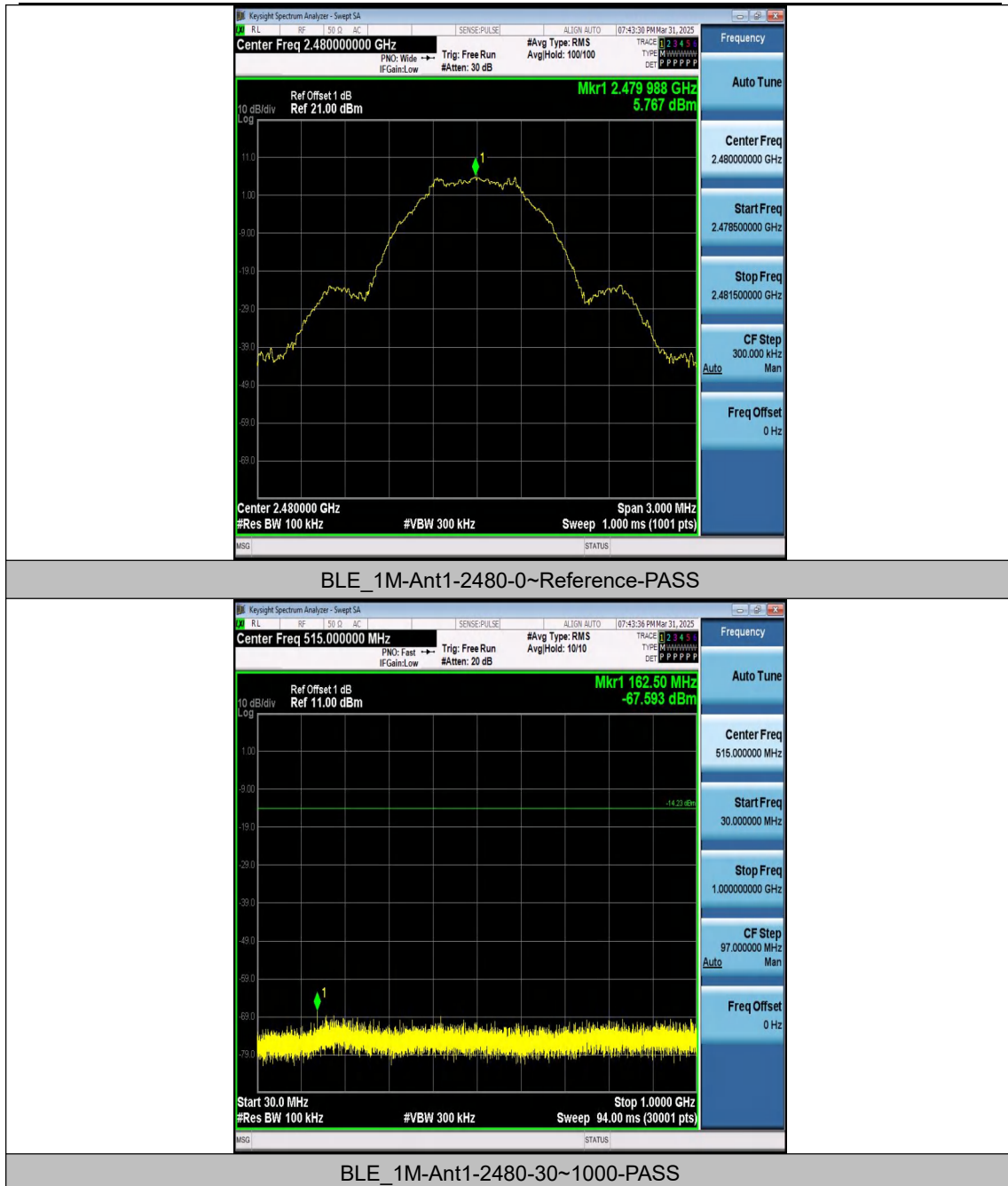
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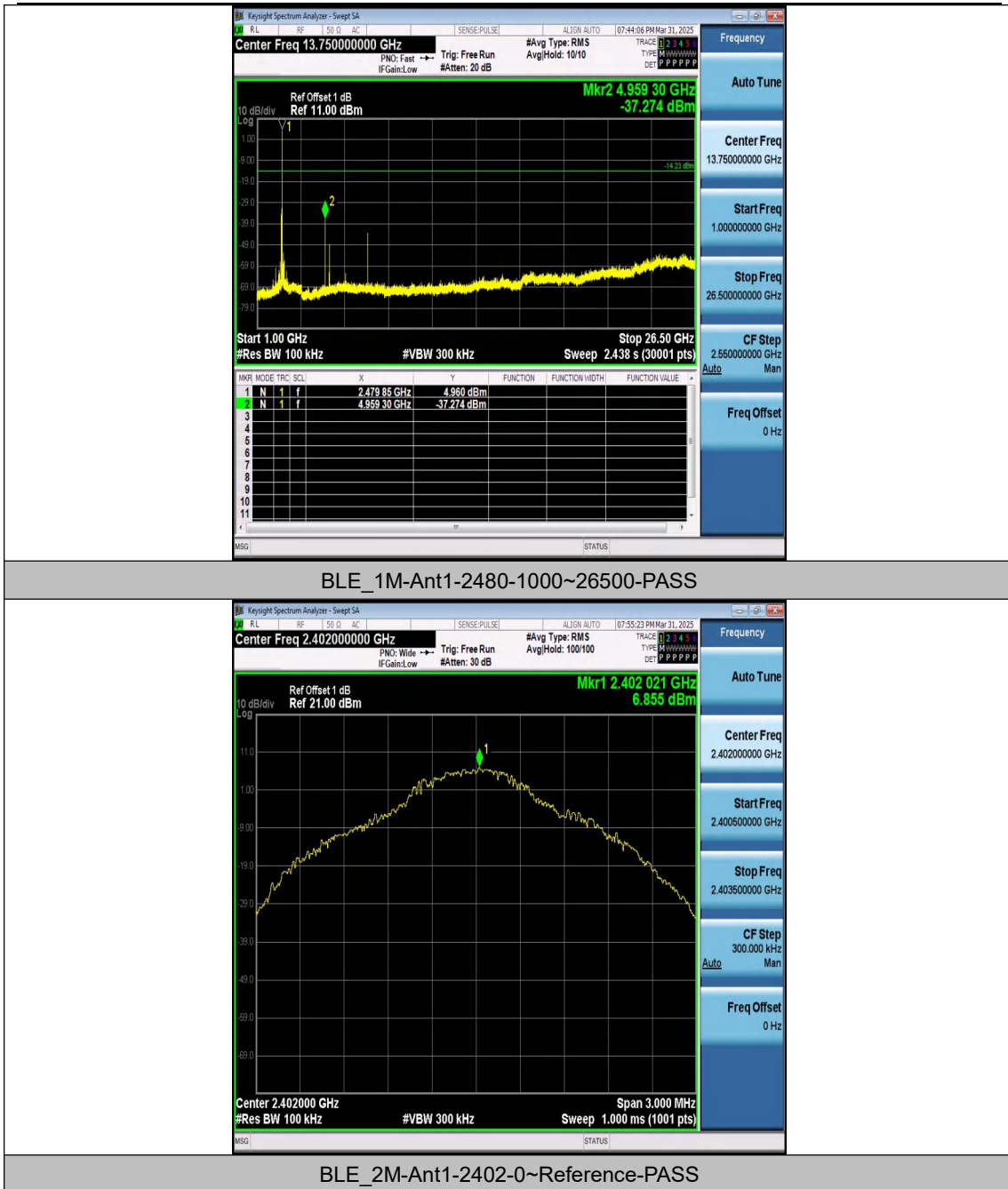




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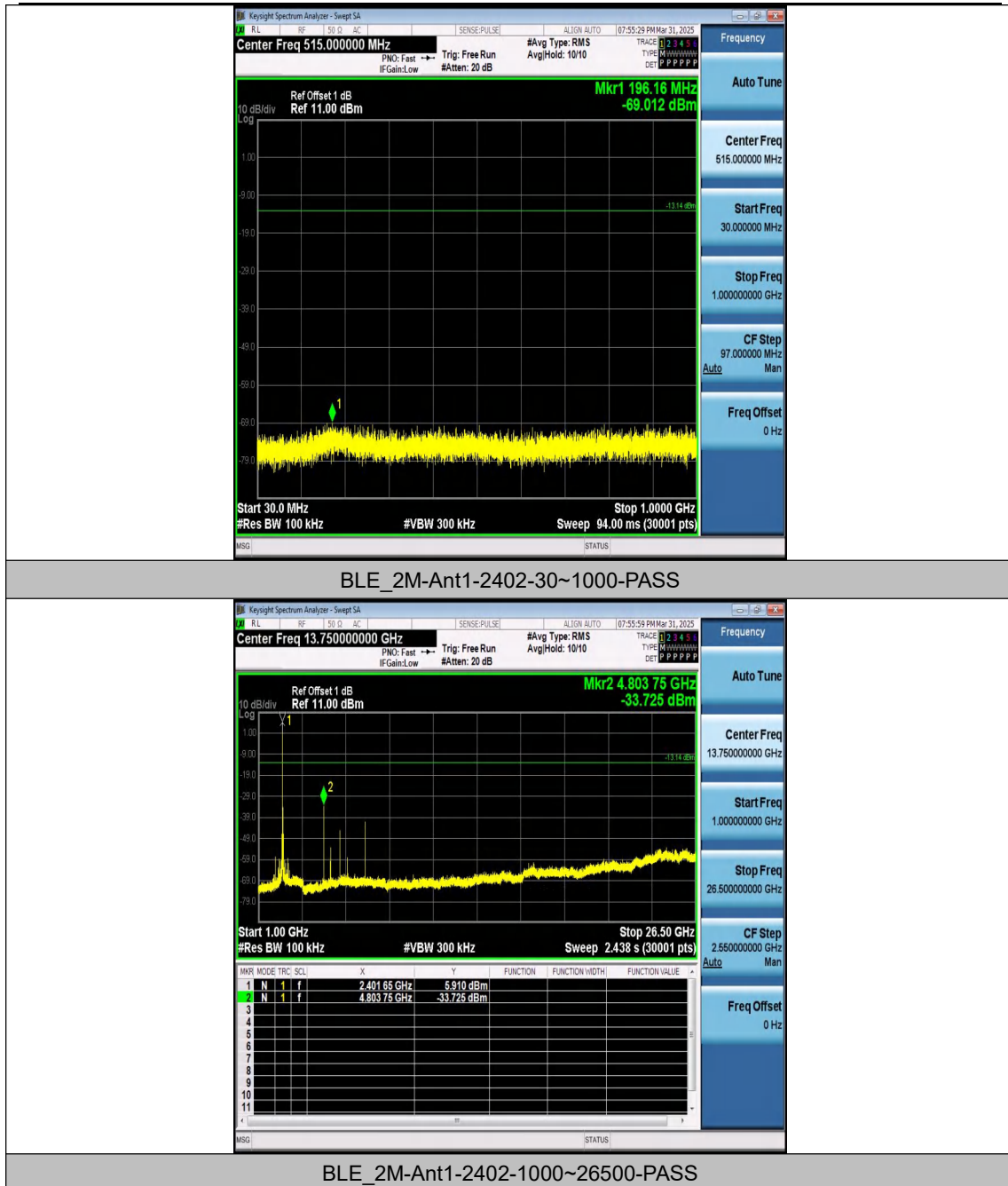


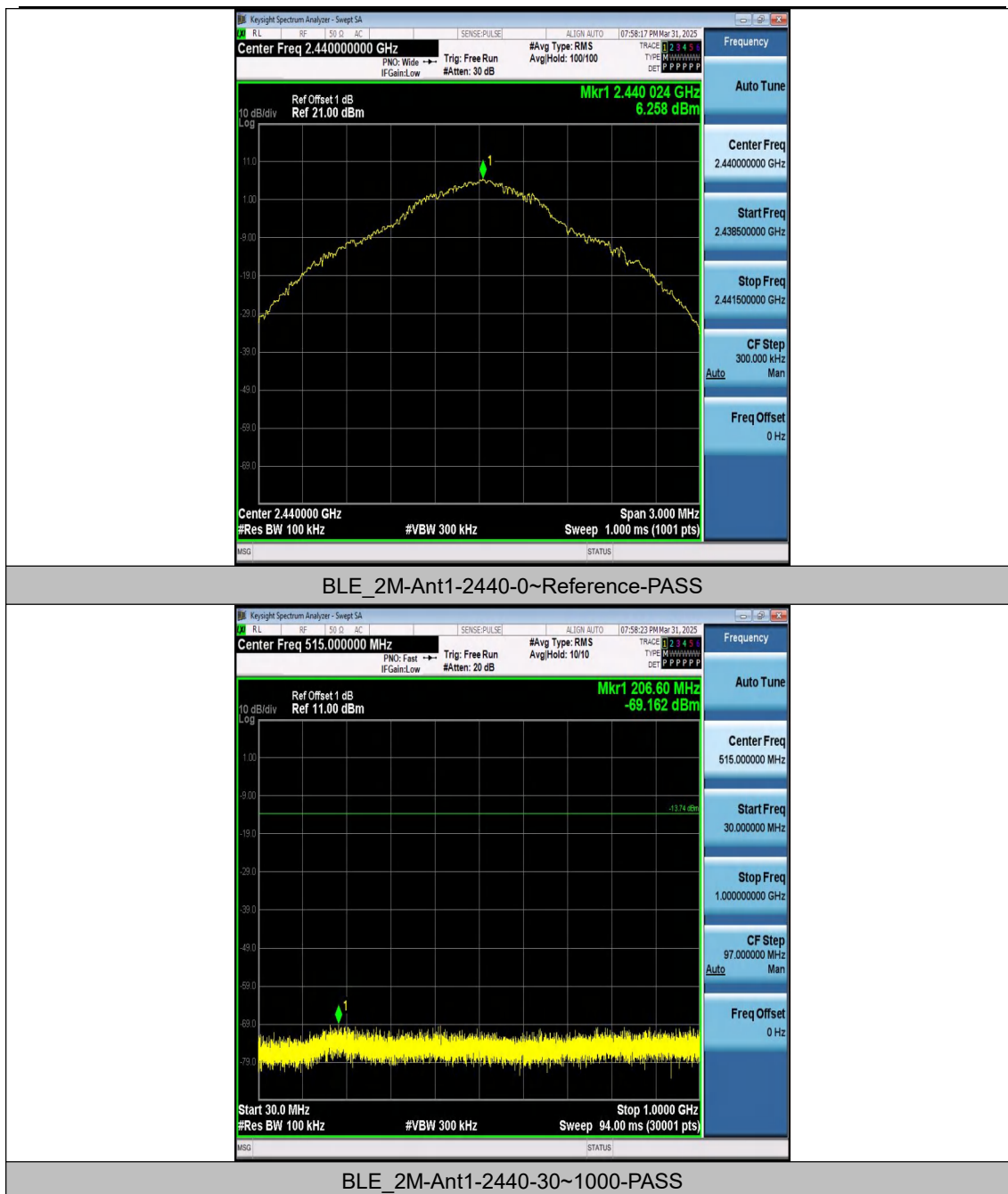
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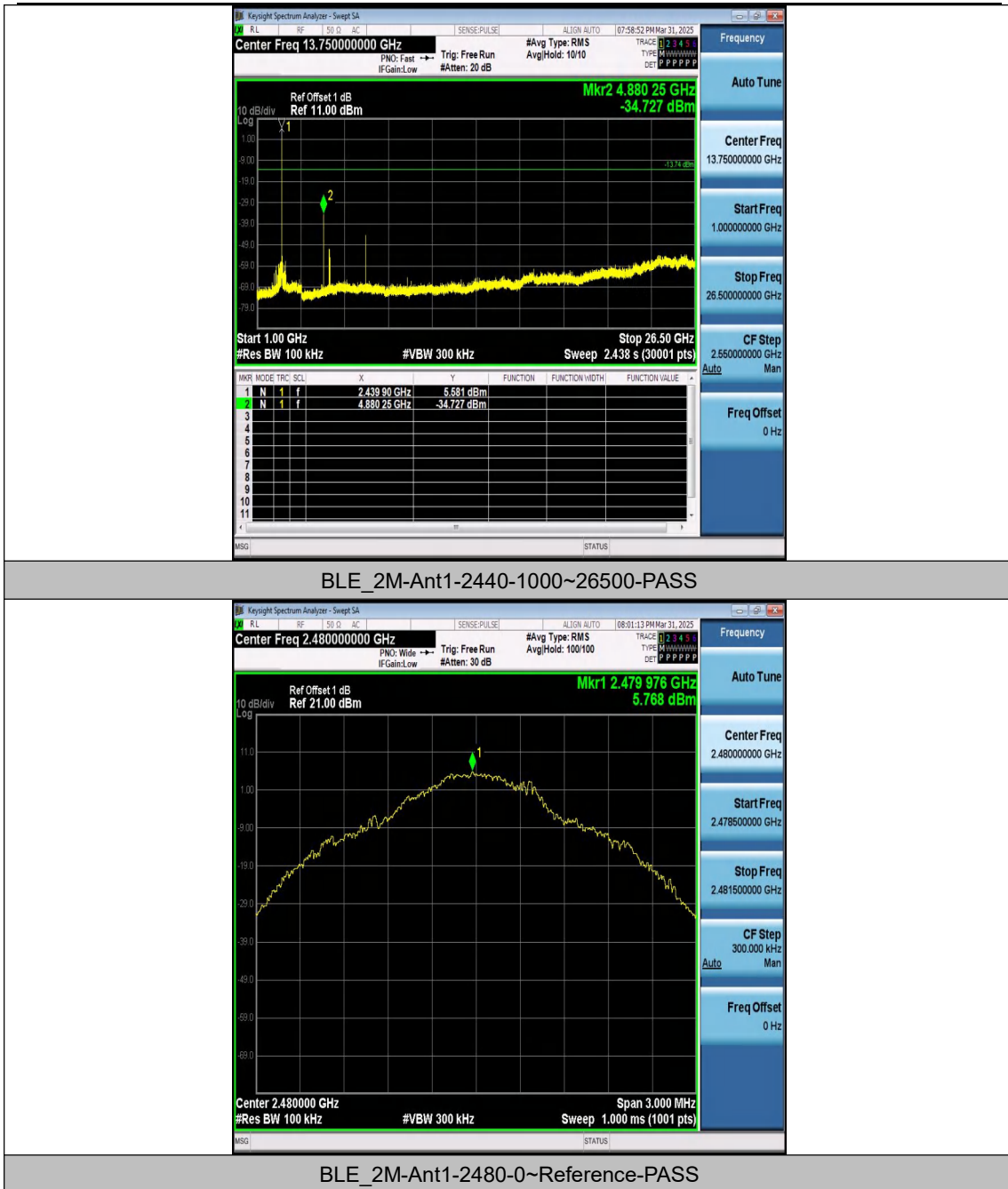




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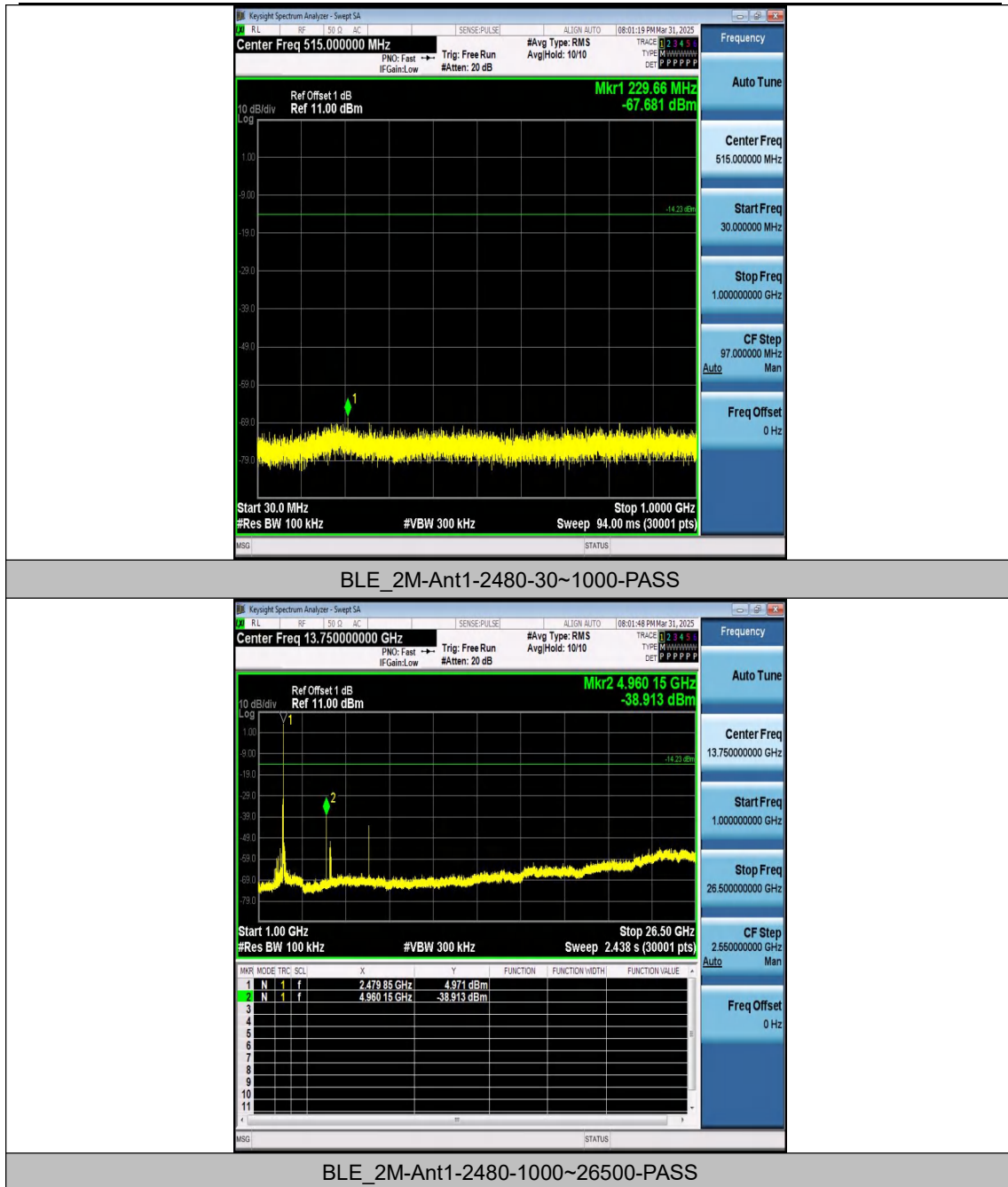
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Appendix G: Duty Cycle

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	0.00
BLE_1M	Ant1	2440	100.00	100.00	100	0.00
BLE_1M	Ant1	2480	100.00	100.00	100	0.00
BLE_2M	Ant1	2402	100.00	100.00	100	0.00
BLE_2M	Ant1	2440	100.00	100.00	100	0.00
BLE_2M	Ant1	2480	100.00	100.00	100	0.00

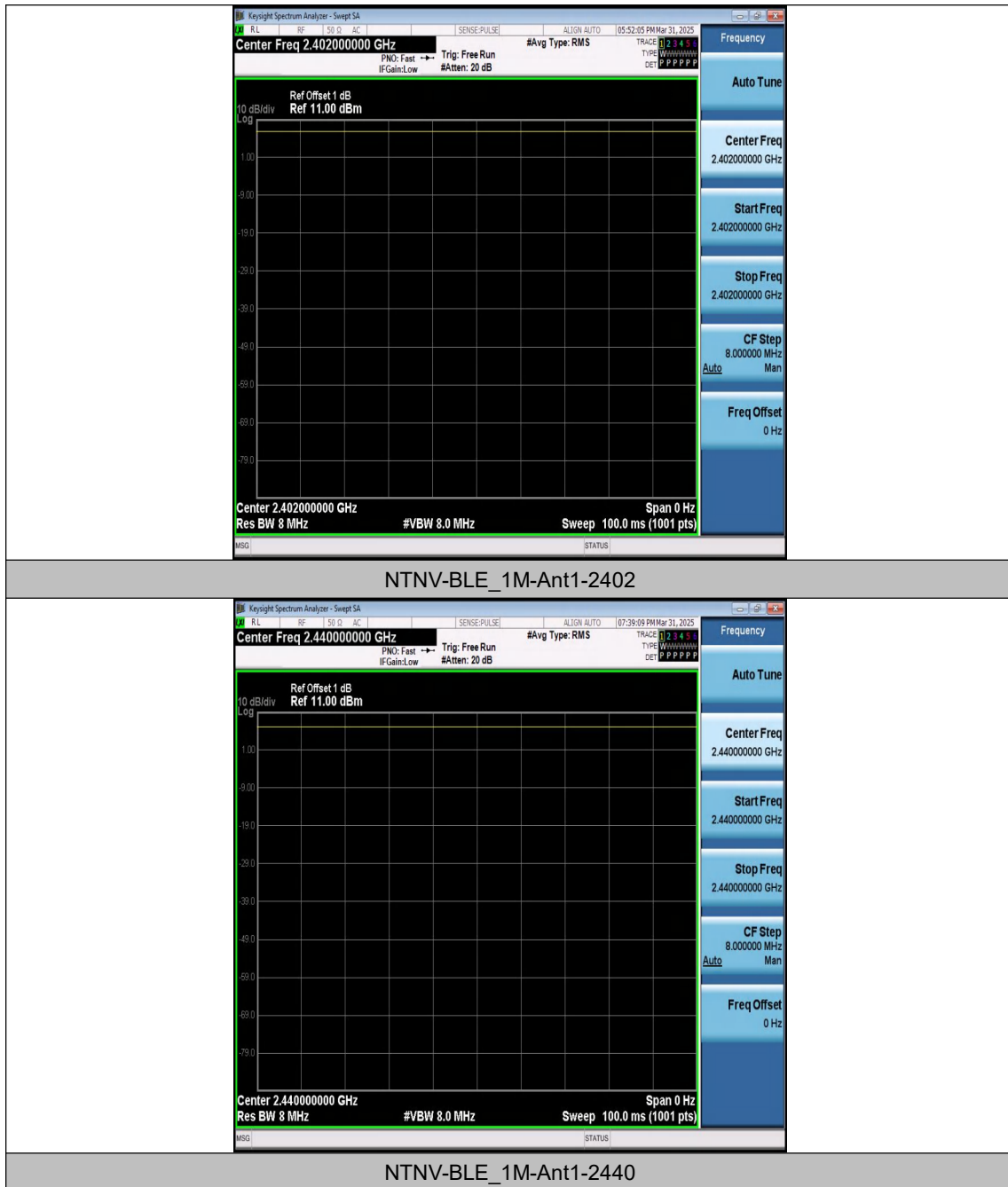
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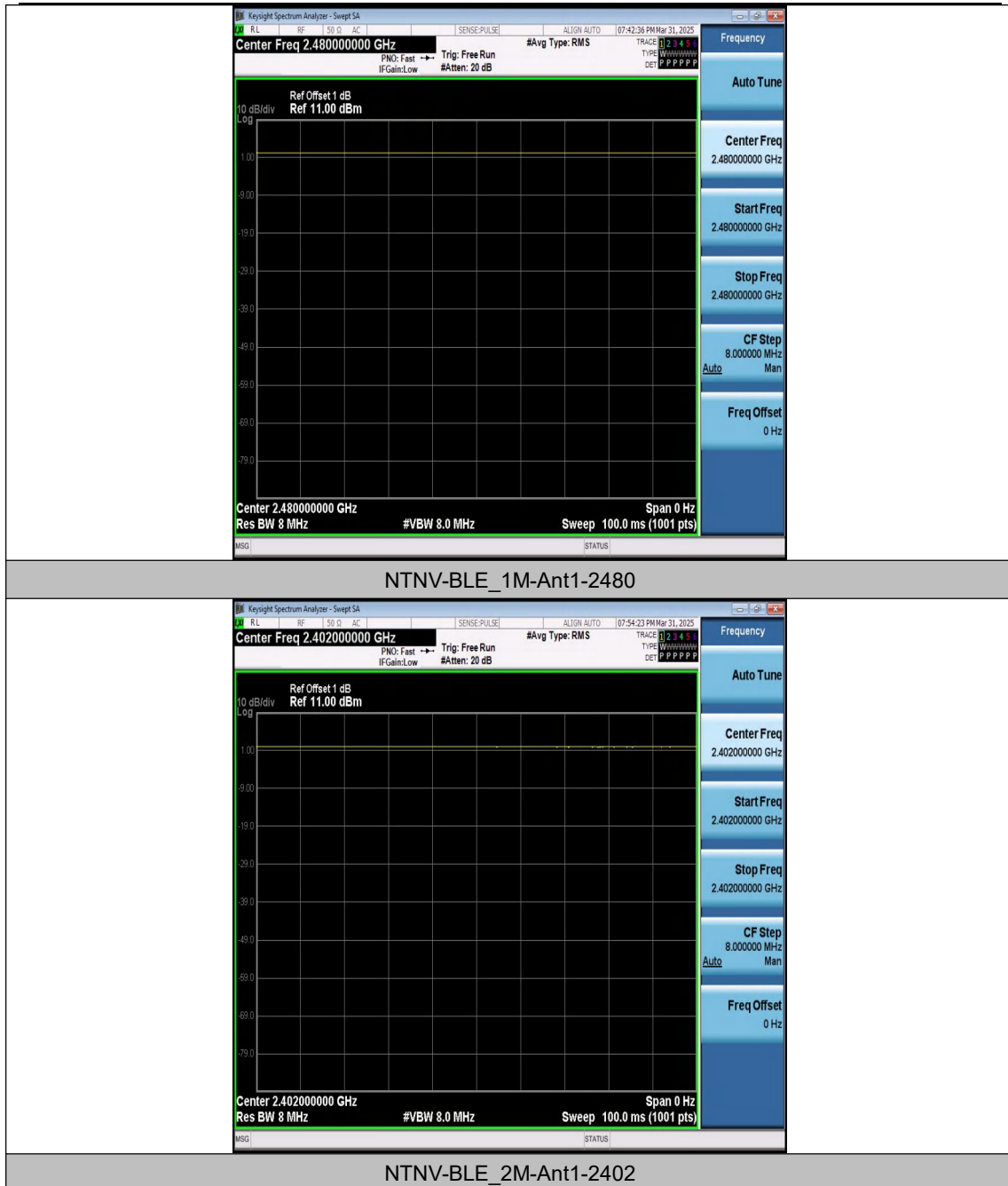
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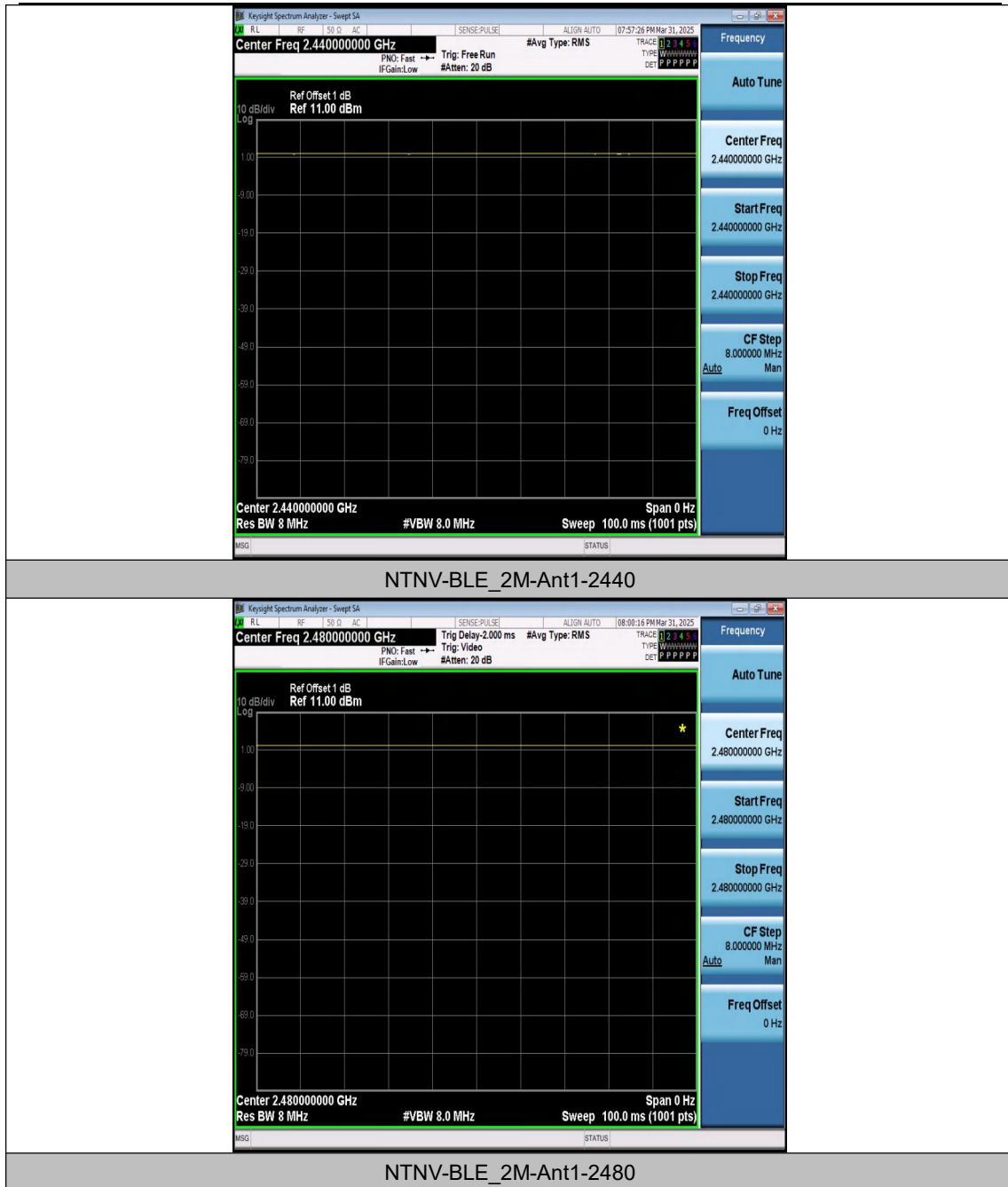
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