

Appendix Test Data

Report No.:	1812C50166612501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-24	Finish Test Date:	2025-04-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21°C	Relative Humidity:	40%
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	0.652	2401.684	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.688	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.672	2480.340	0.5	PASS

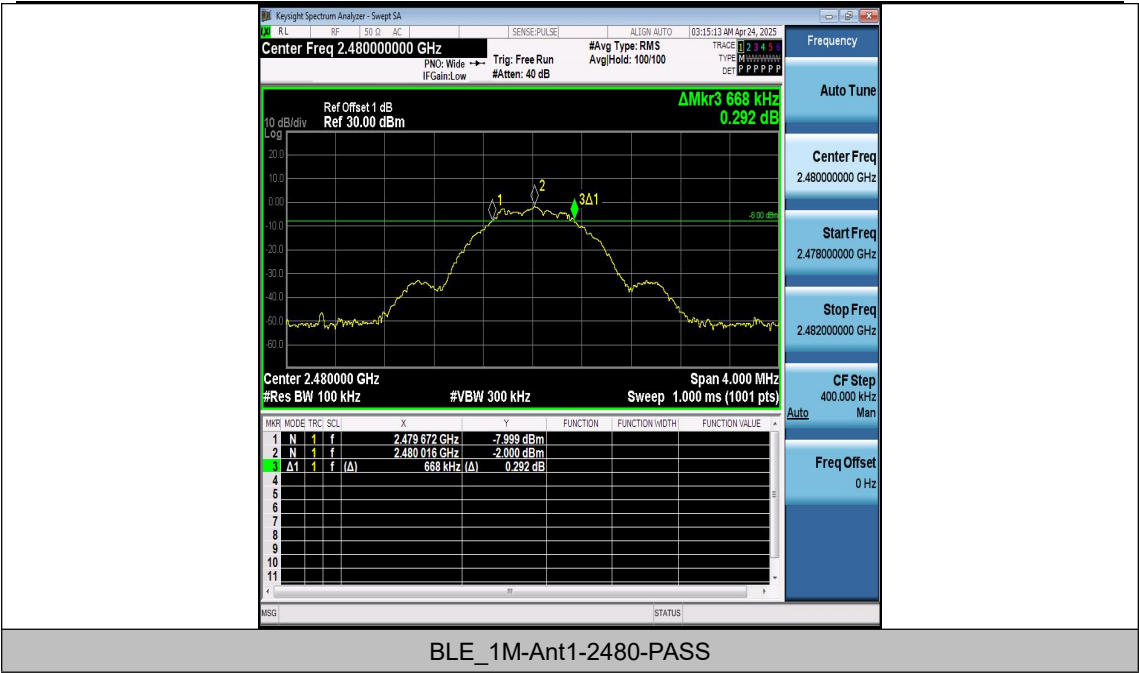
Test Graphs



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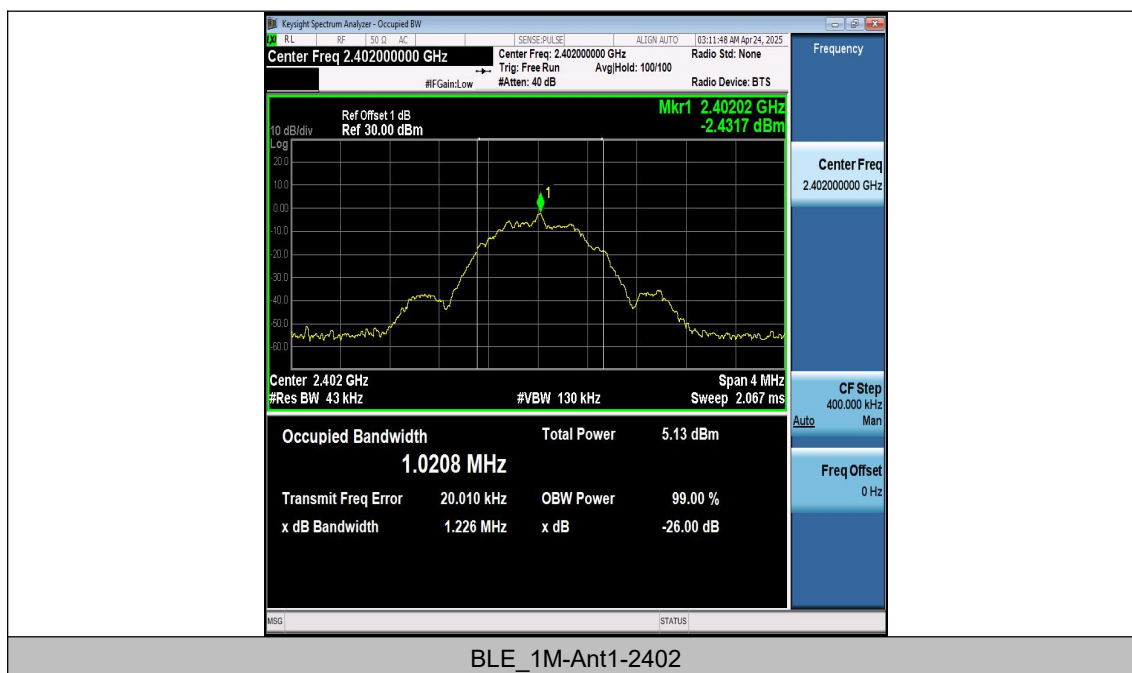
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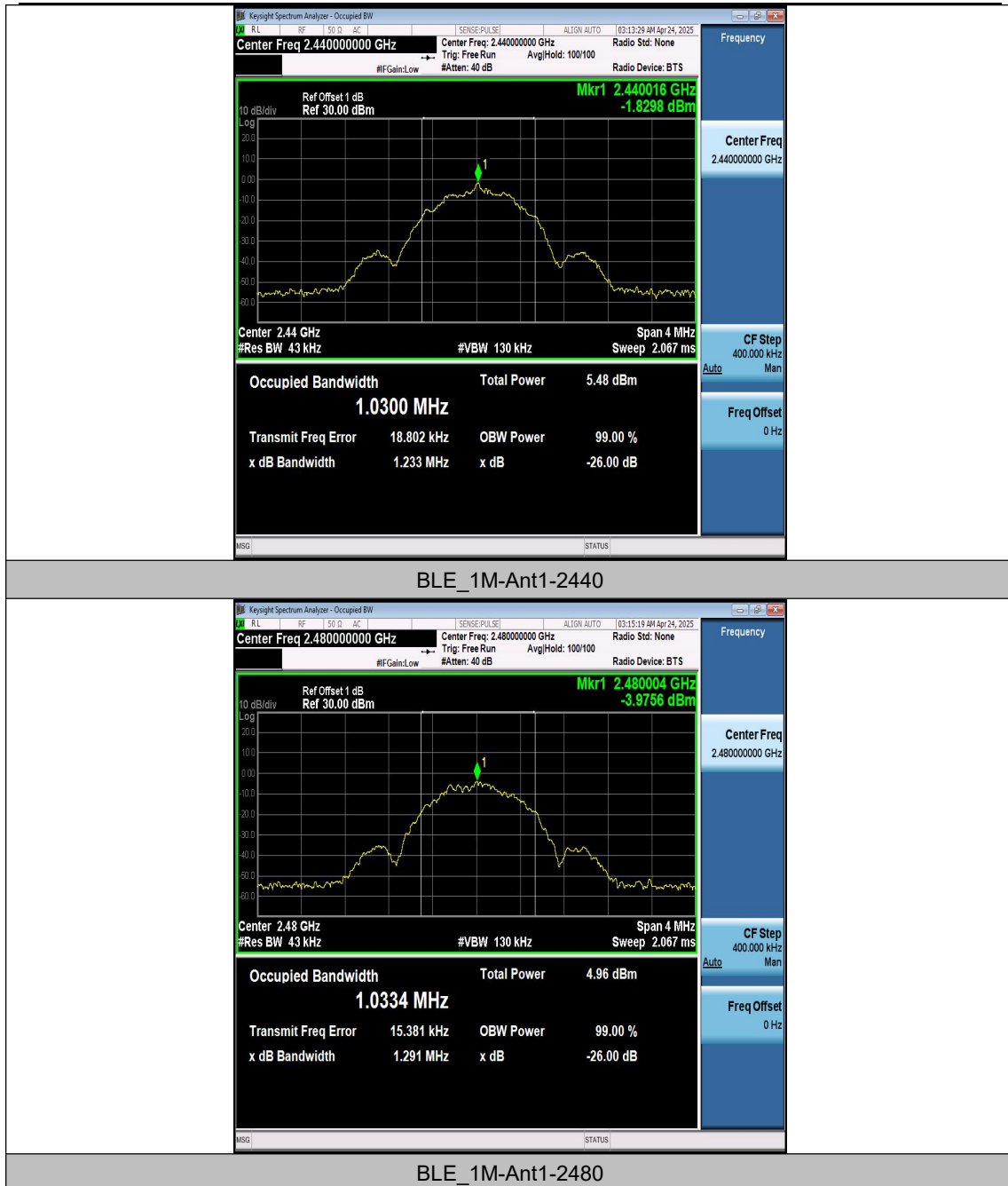
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0208	2401.5096	2402.5304	---	---
BLE_1M	Ant1	2440	1.0300	2439.5038	2440.5338	---	---
BLE_1M	Ant1	2480	1.0334	2479.4987	2480.5321	---	---

Test Graphs





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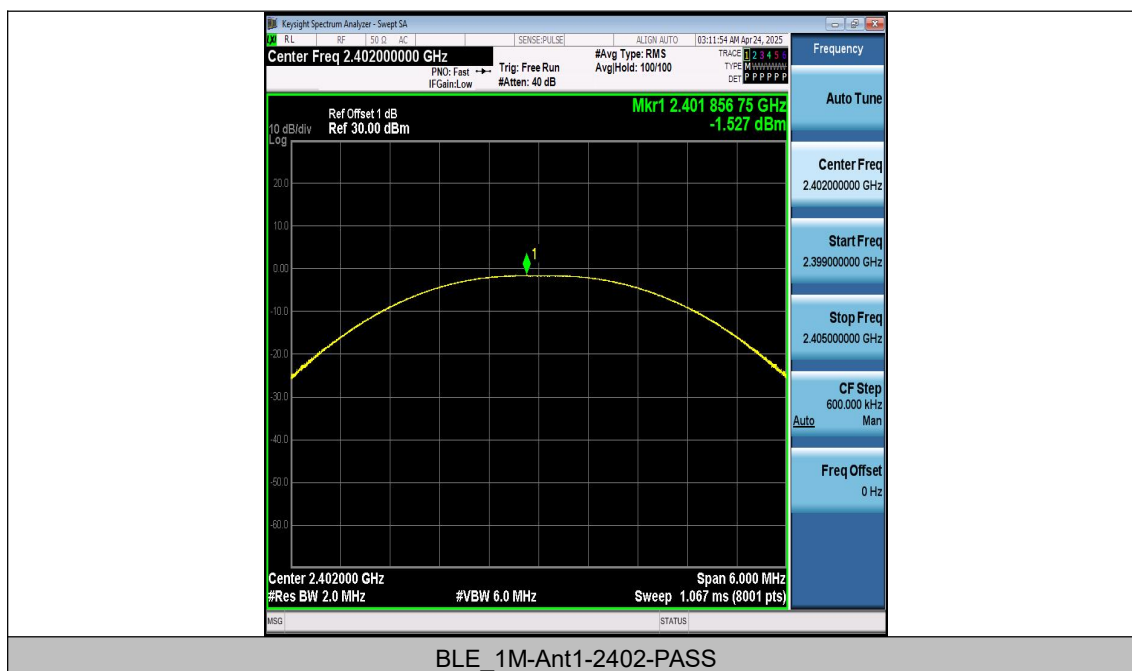
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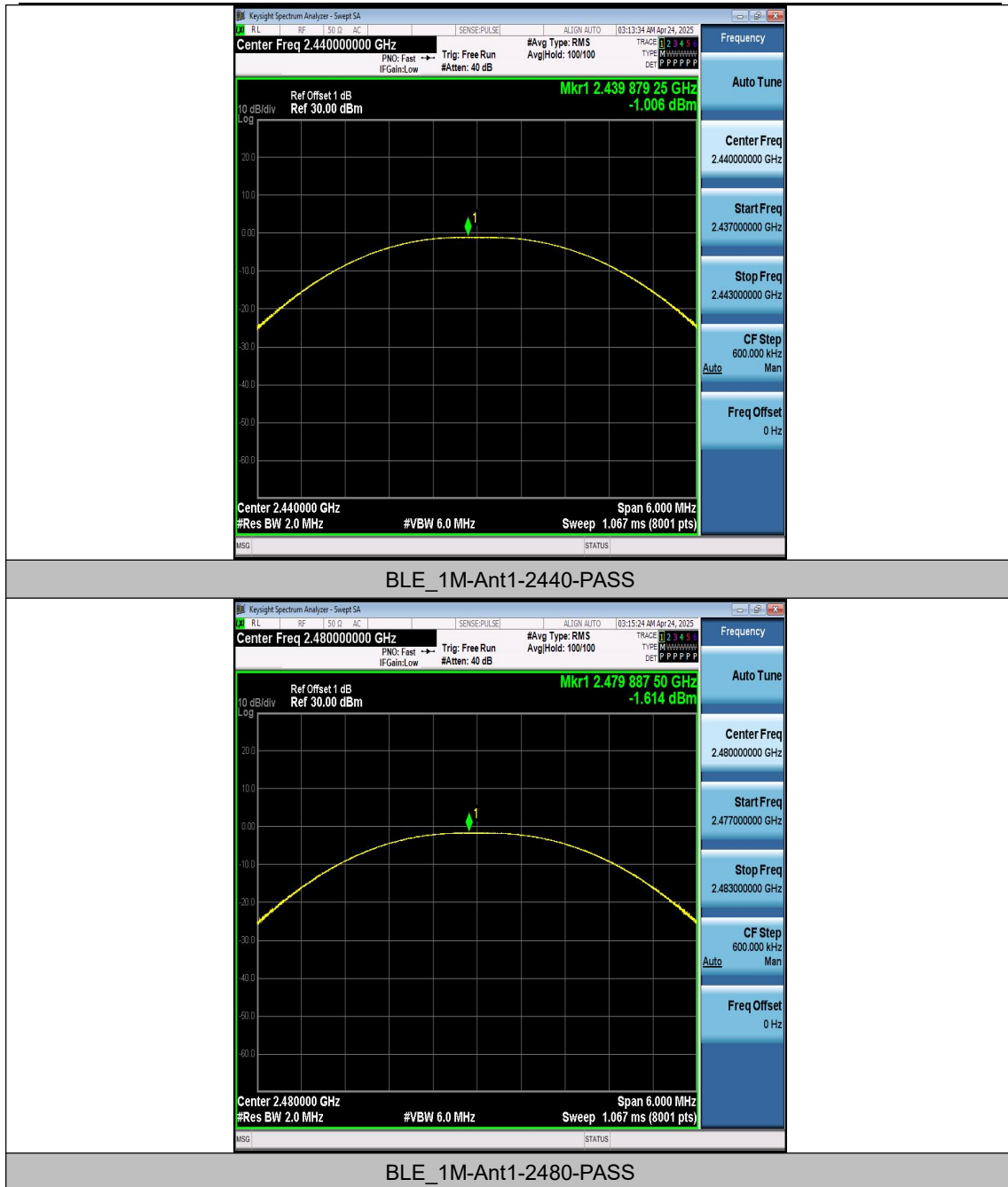
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.53	≤30	PASS
BLE_1M	Ant1	2440	-1.01	≤30	PASS
BLE_1M	Ant1	2480	-1.61	≤30	PASS

Test Graphs Peak





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Appendix D: Maximum power spectral density

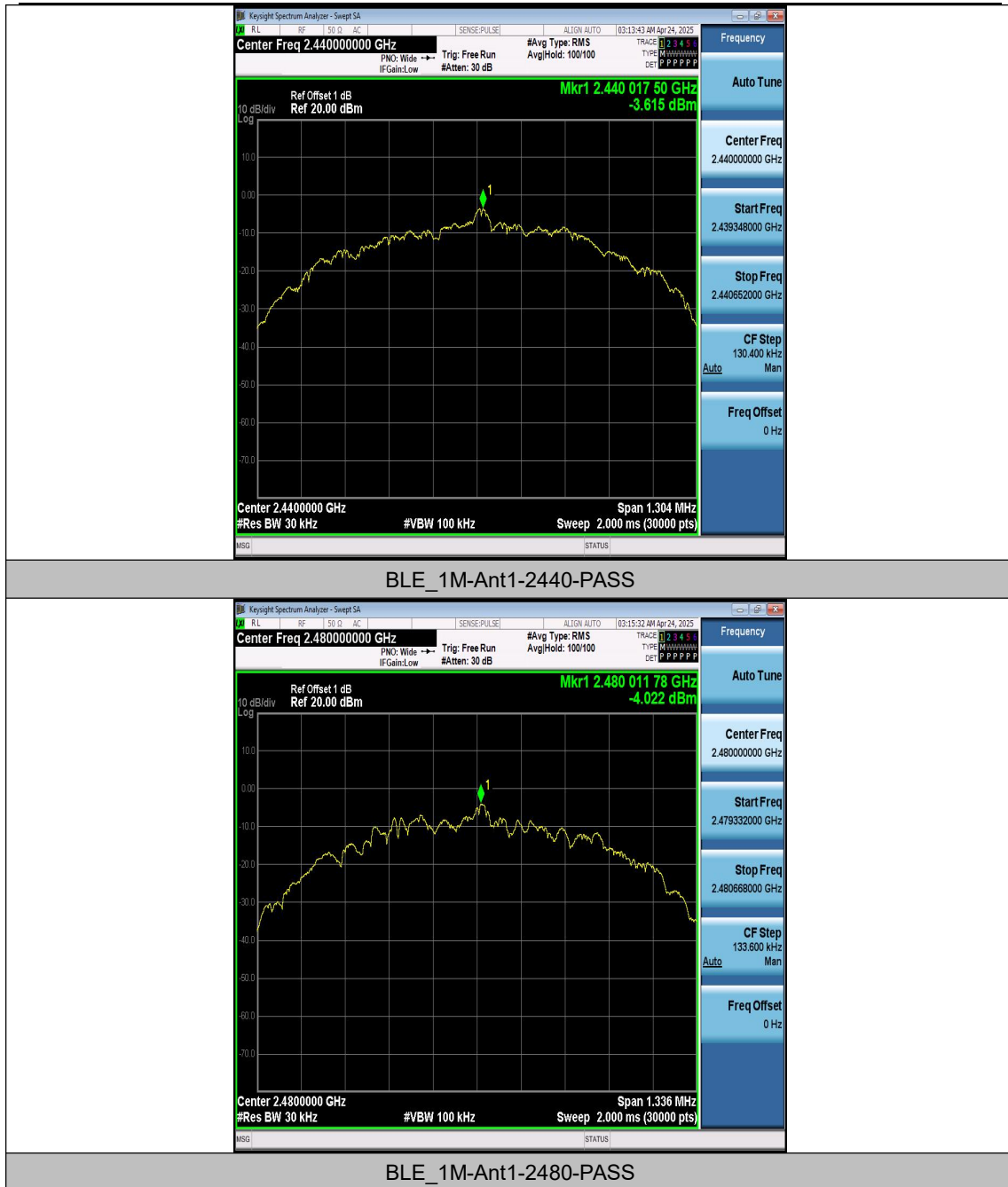
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.96	≤8.00	PASS
BLE_1M	Ant1	2440	-3.62	≤8.00	PASS
BLE_1M	Ant1	2480	-4.02	≤8.00	PASS

Note:PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).

Test Graphs





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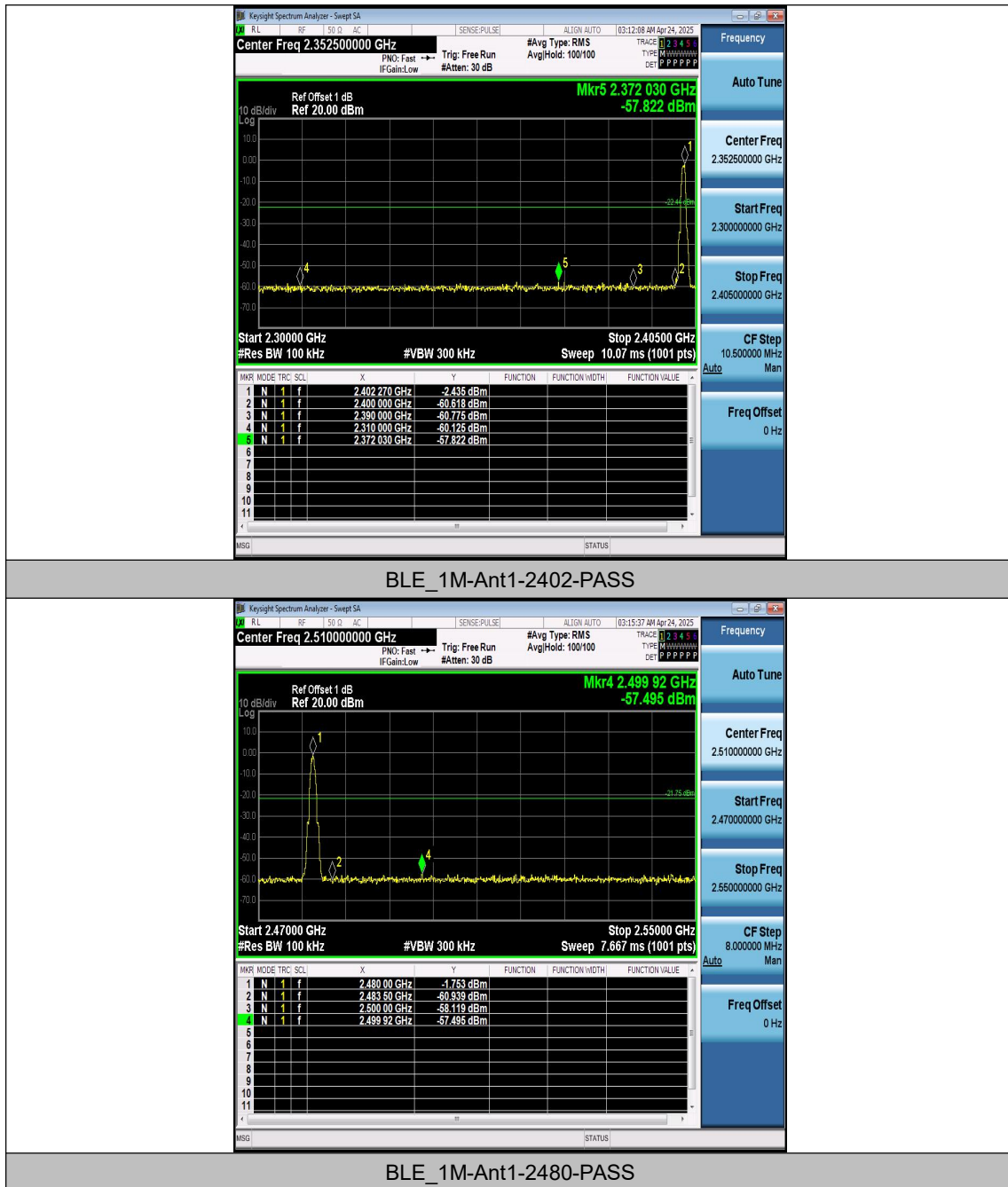
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.44	-57.82	≤-22.44	PASS
BLE_1M	Ant1	High	2480	-1.75	-57.5	≤-21.75	PASS

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'offset' of the Spectrum Analyzer during the test.

Test Graphs



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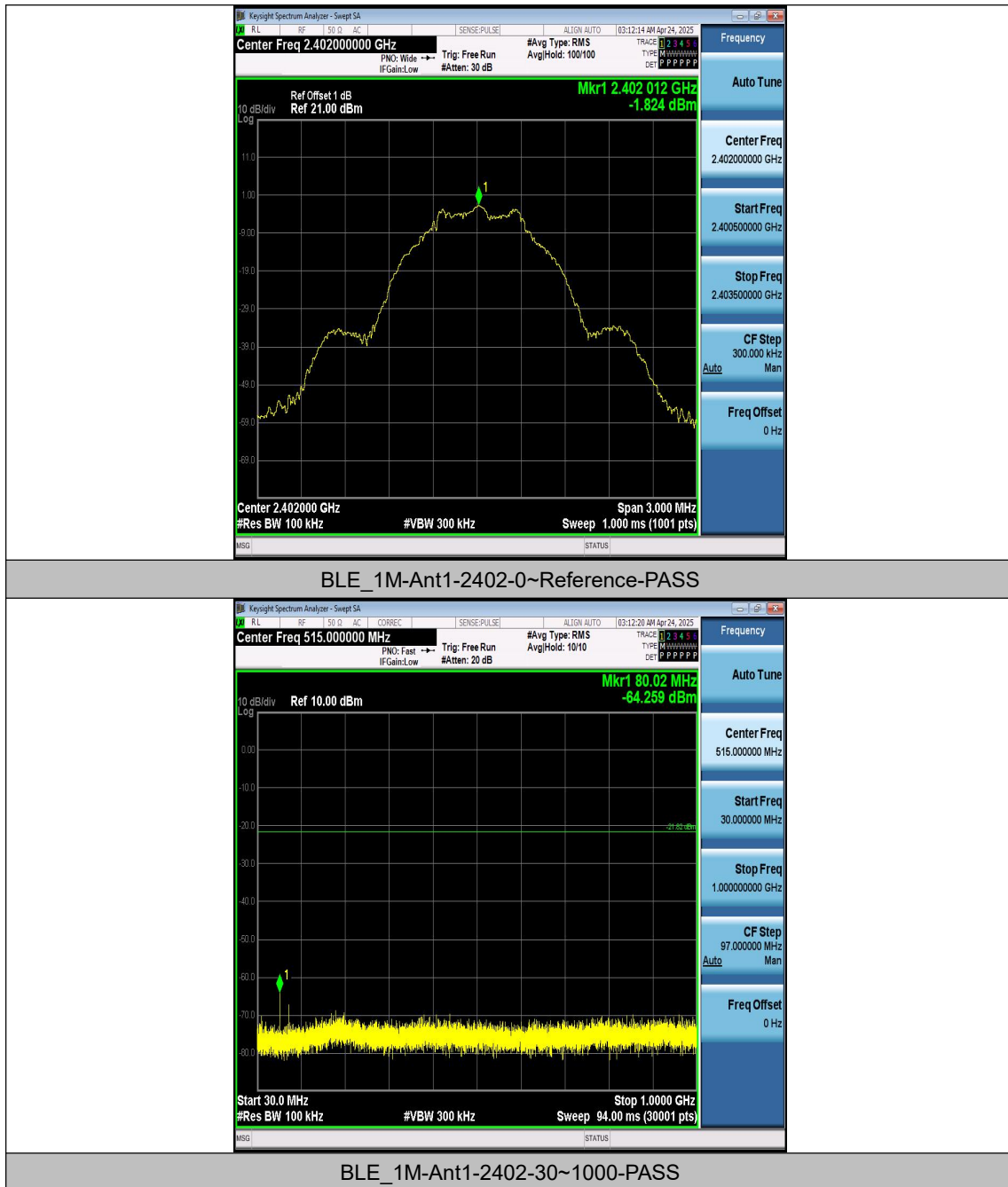
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.82	-1.82	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.82	-64.26	≤-21.82	PASS
BLE_1M	Ant1	2402	1000~26500	-1.82	-53.5	≤-21.82	PASS
BLE_1M	Ant1	2440	0~Reference	-1.35	-1.35	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.35	-63.36	≤-21.35	PASS
BLE_1M	Ant1	2440	1000~26500	-1.35	-53.1	≤-21.35	PASS
BLE_1M	Ant1	2480	0~Reference	-1.92	-1.92	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.92	-63.84	≤-21.92	PASS
BLE_1M	Ant1	2480	1000~26500	-1.92	-53.11	≤-21.92	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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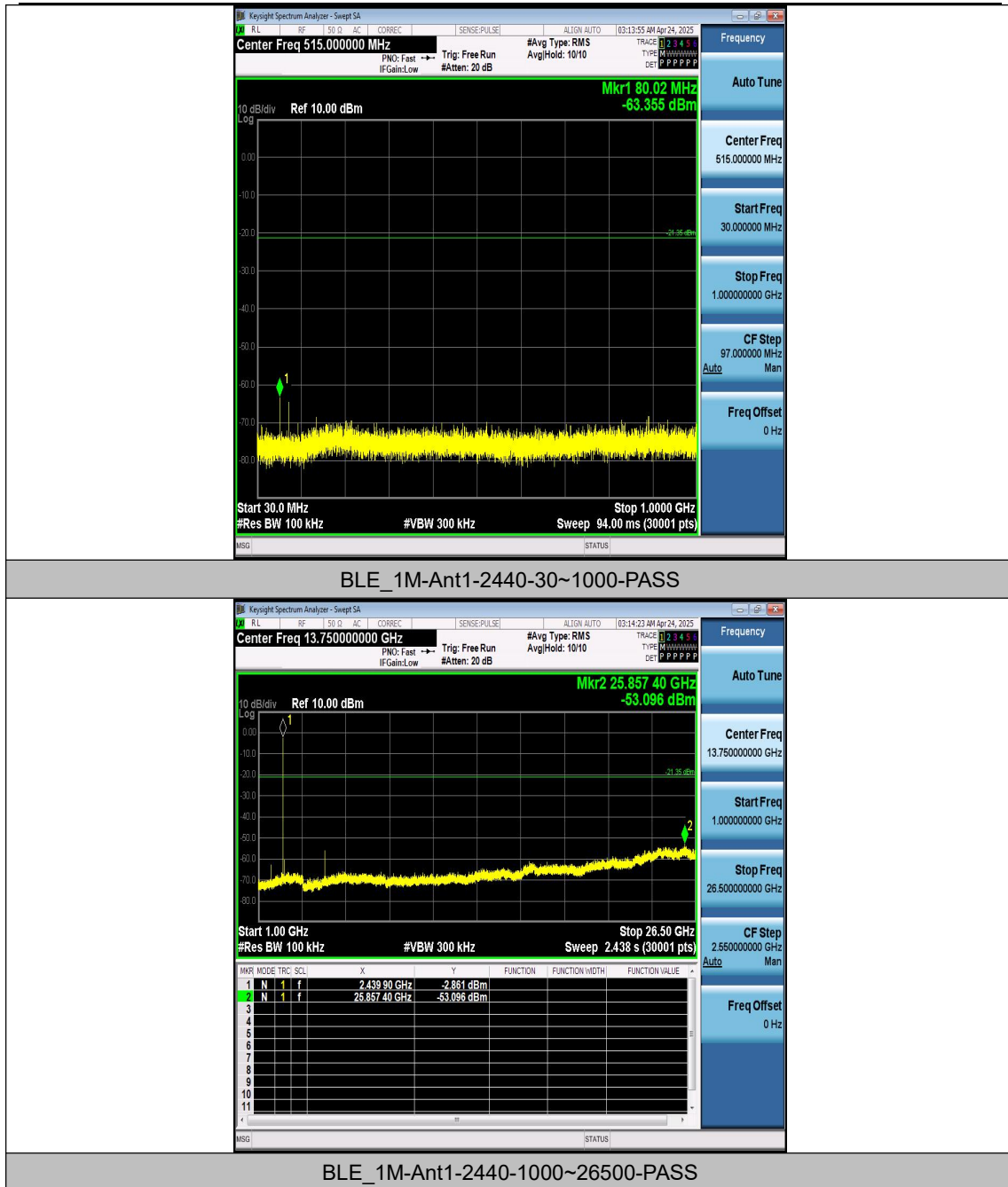
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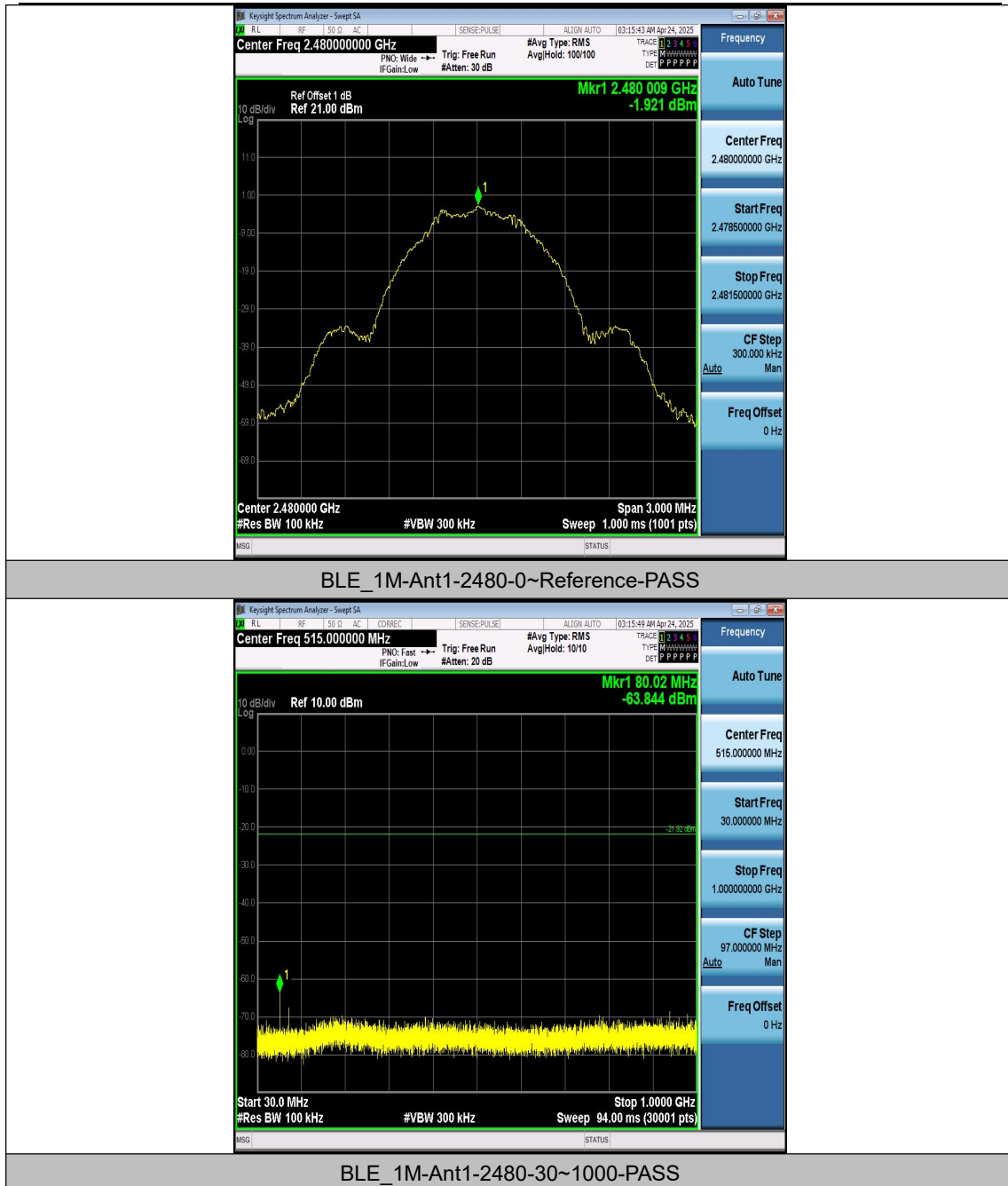
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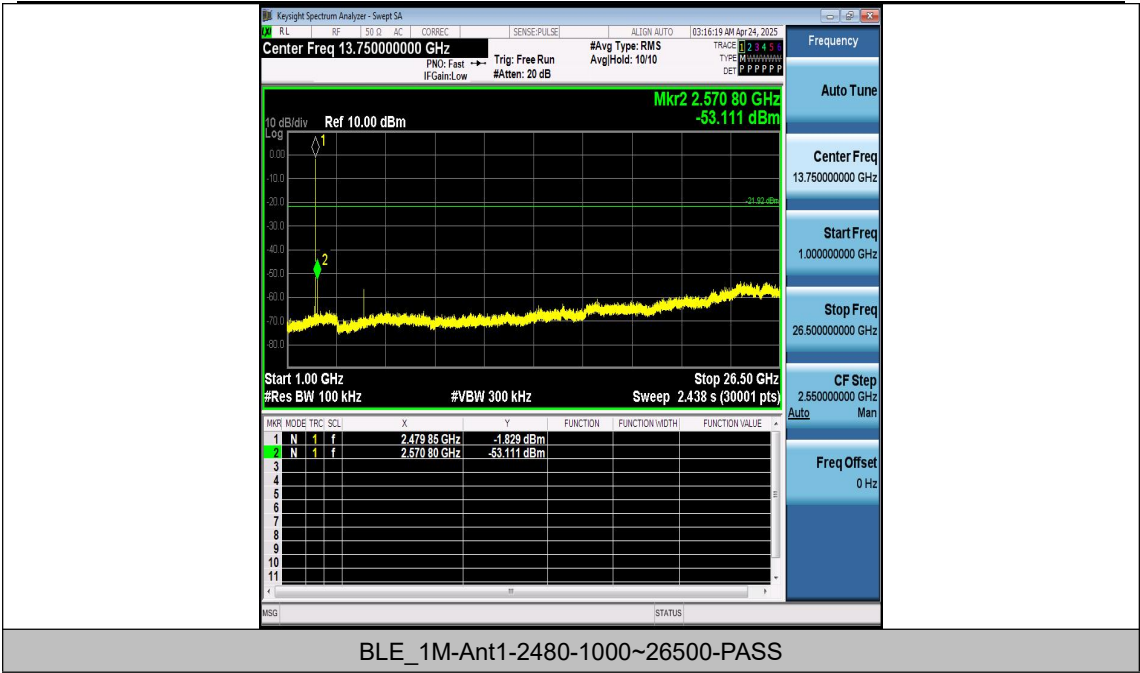
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BLE_1M-Ant1-2480-1000~26500-PASS

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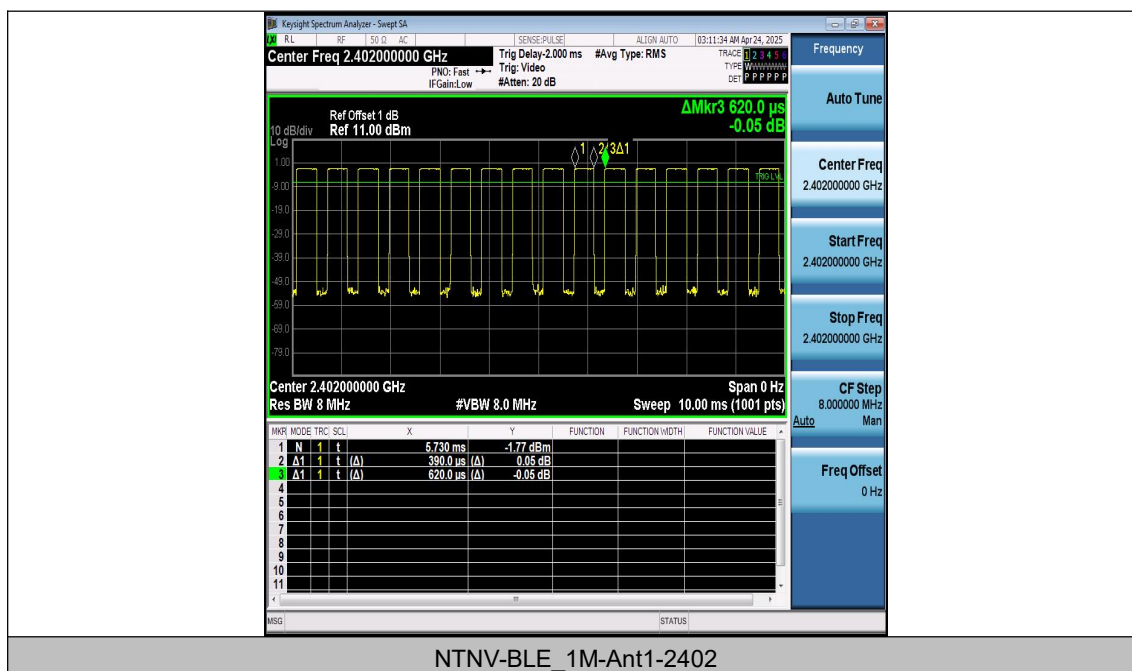
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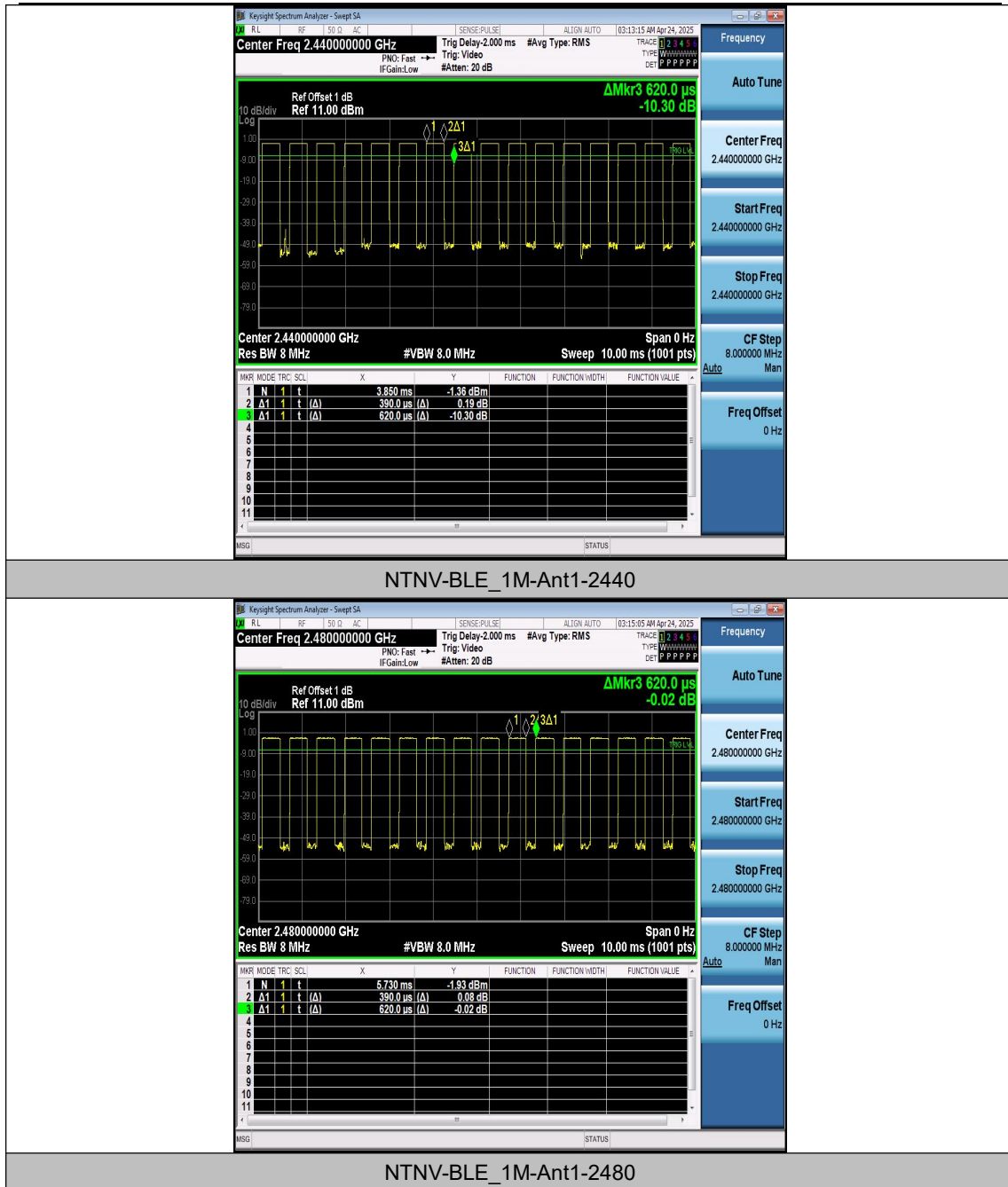
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.39	0.62	62.90	2.01

Test Graphs





---End---