

## Appendix Test Data

Report No.:	1812C50153912501	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	0.692	2401.648	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.668	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.644	2479.688	2480.332	0.5	PASS



## Test Graphs





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## Appendix B: 99% Occupied Bandwidth

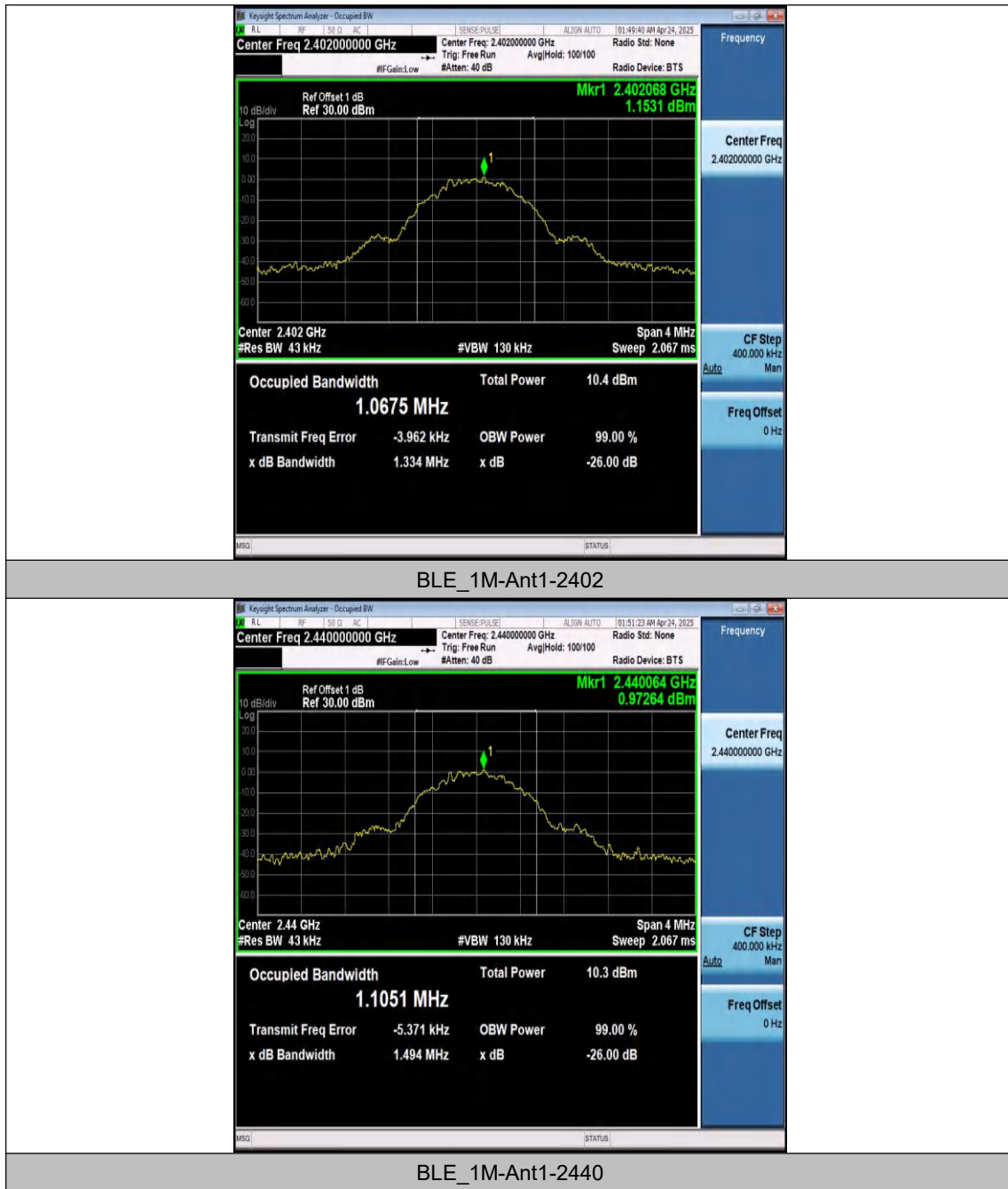
### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0675	2401.4623	2402.5298	---	---
BLE_1M	Ant1	2440	1.1051	2439.4421	2440.5472	---	---
BLE_1M	Ant1	2480	1.1074	2479.4420	2480.5494	---	---

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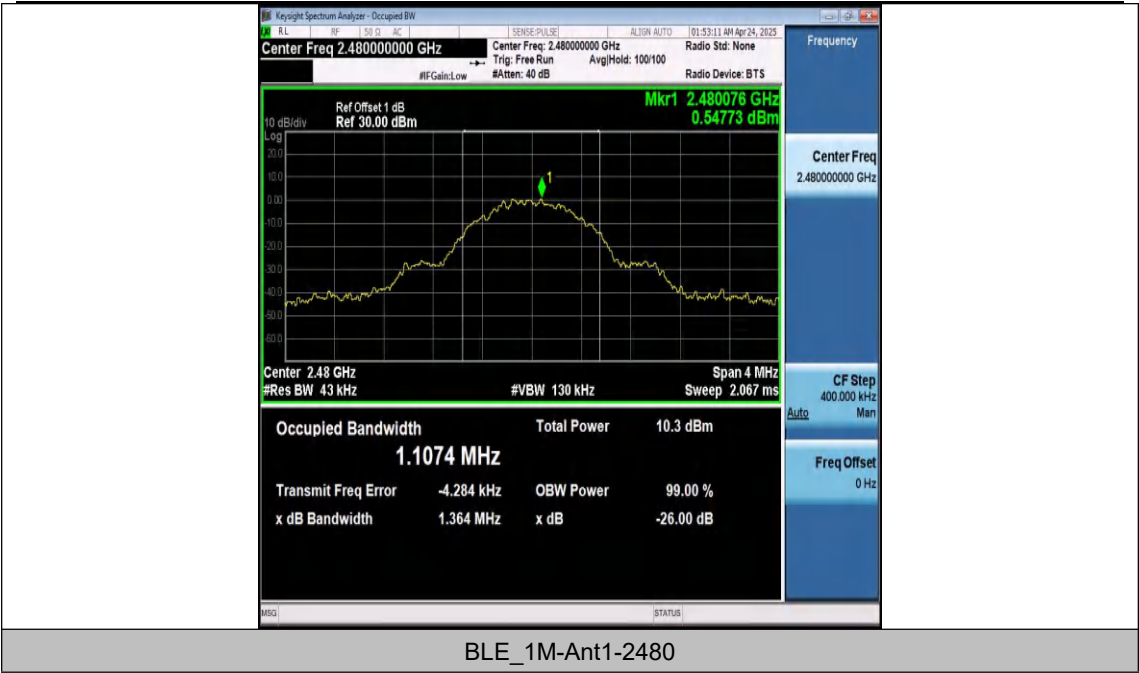
## Test Graphs



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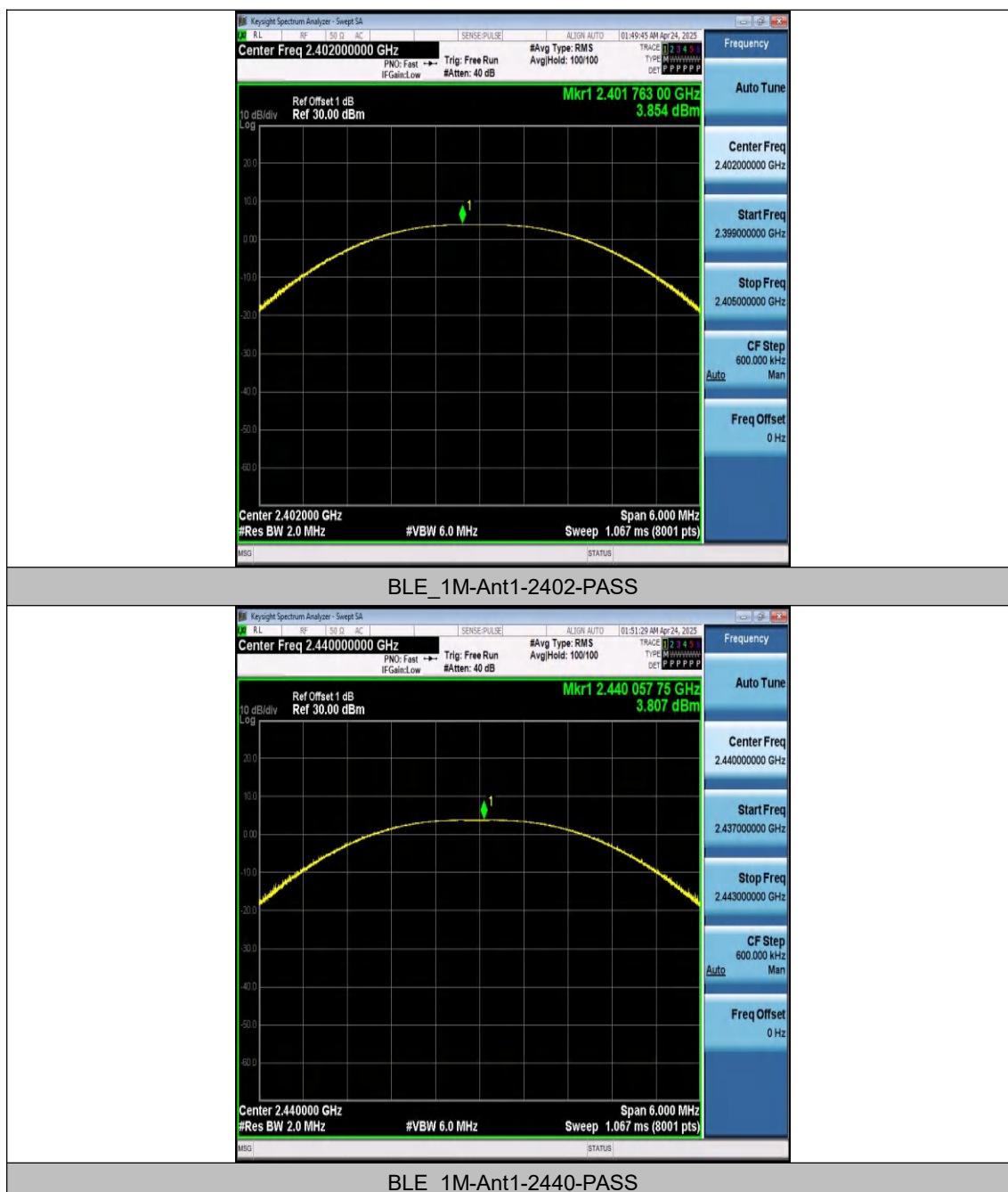


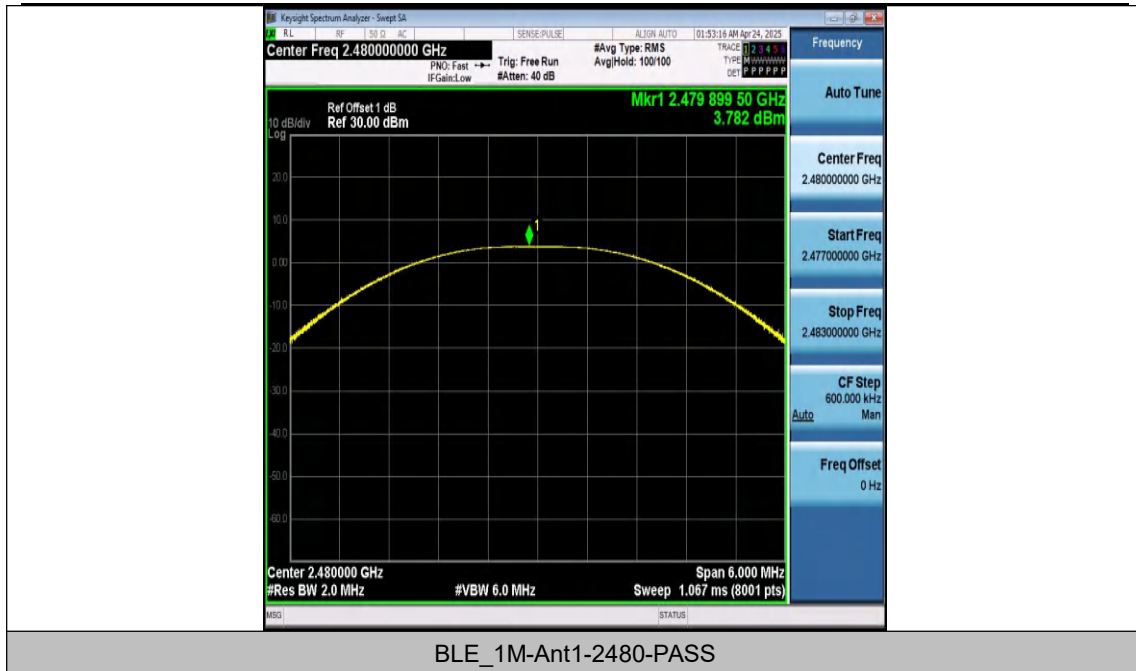
## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	<b>3.85</b>	≤30	PASS
BLE_1M	Ant1	2440	3.81	≤30	PASS
BLE_1M	Ant1	2480	3.78	≤30	PASS

### Test Graphs Peak





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## Appendix D: Maximum power spectral density

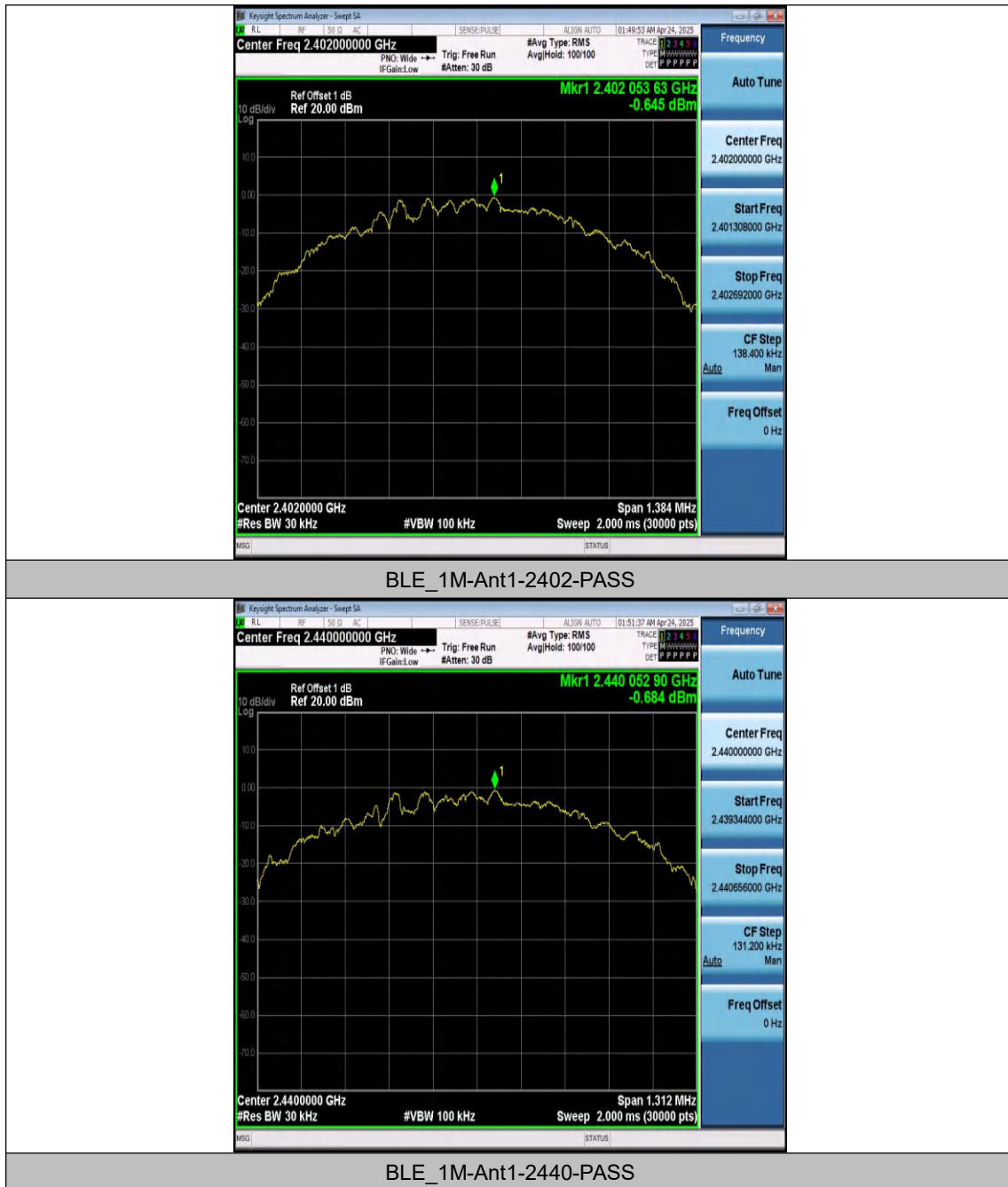
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-0.65	≤8.00	PASS
BLE_1M	Ant1	2440	-0.68	≤8.00	PASS
BLE_1M	Ant1	2480	-0.76	≤8.00	PASS

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



## Test Graphs



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## Appendix E: Band edge measurements

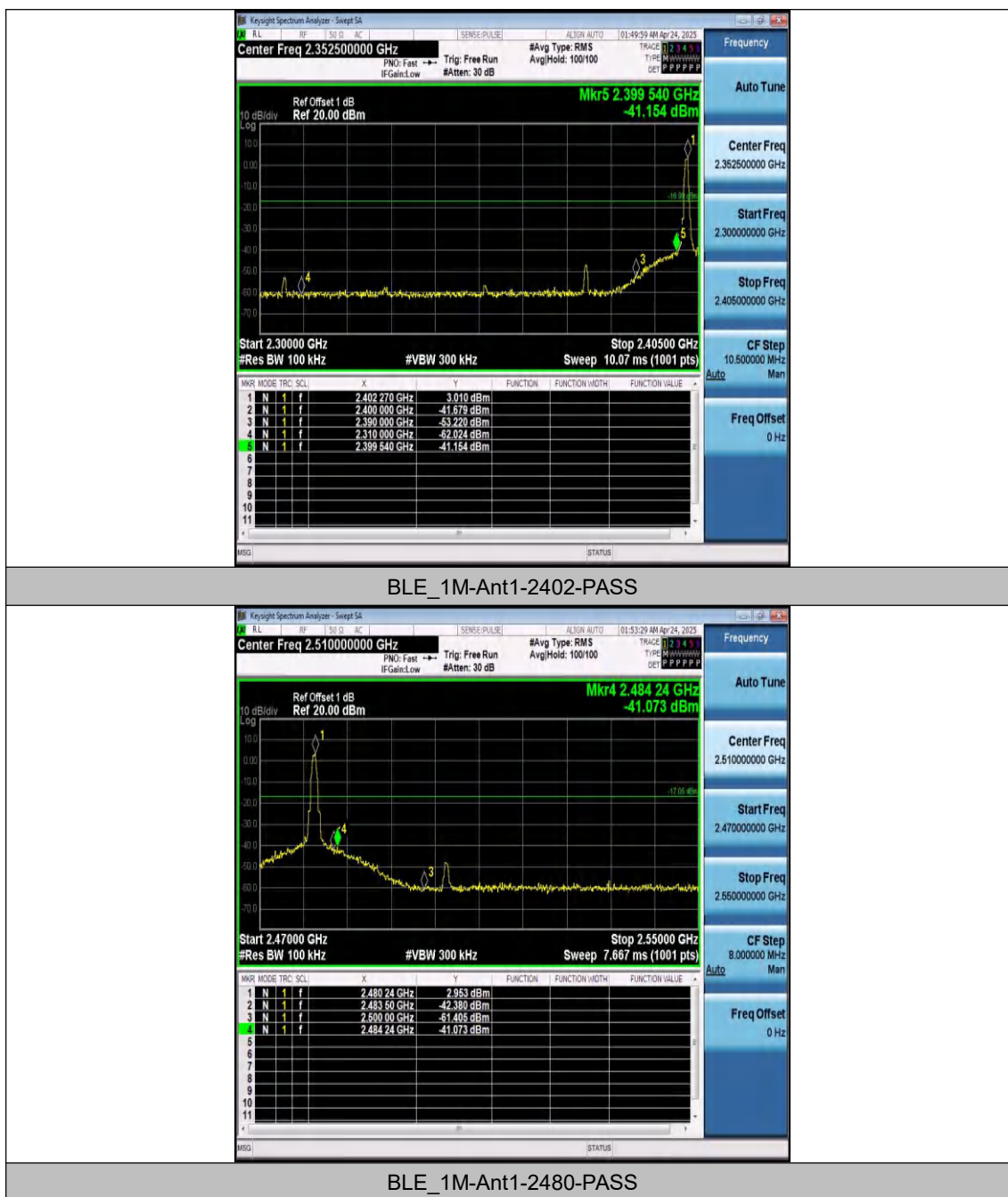
### Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.01	-41.15	≤-16.99	PASS
BLE_1M	Ant1	High	2480	2.95	-41.07	≤-17.05	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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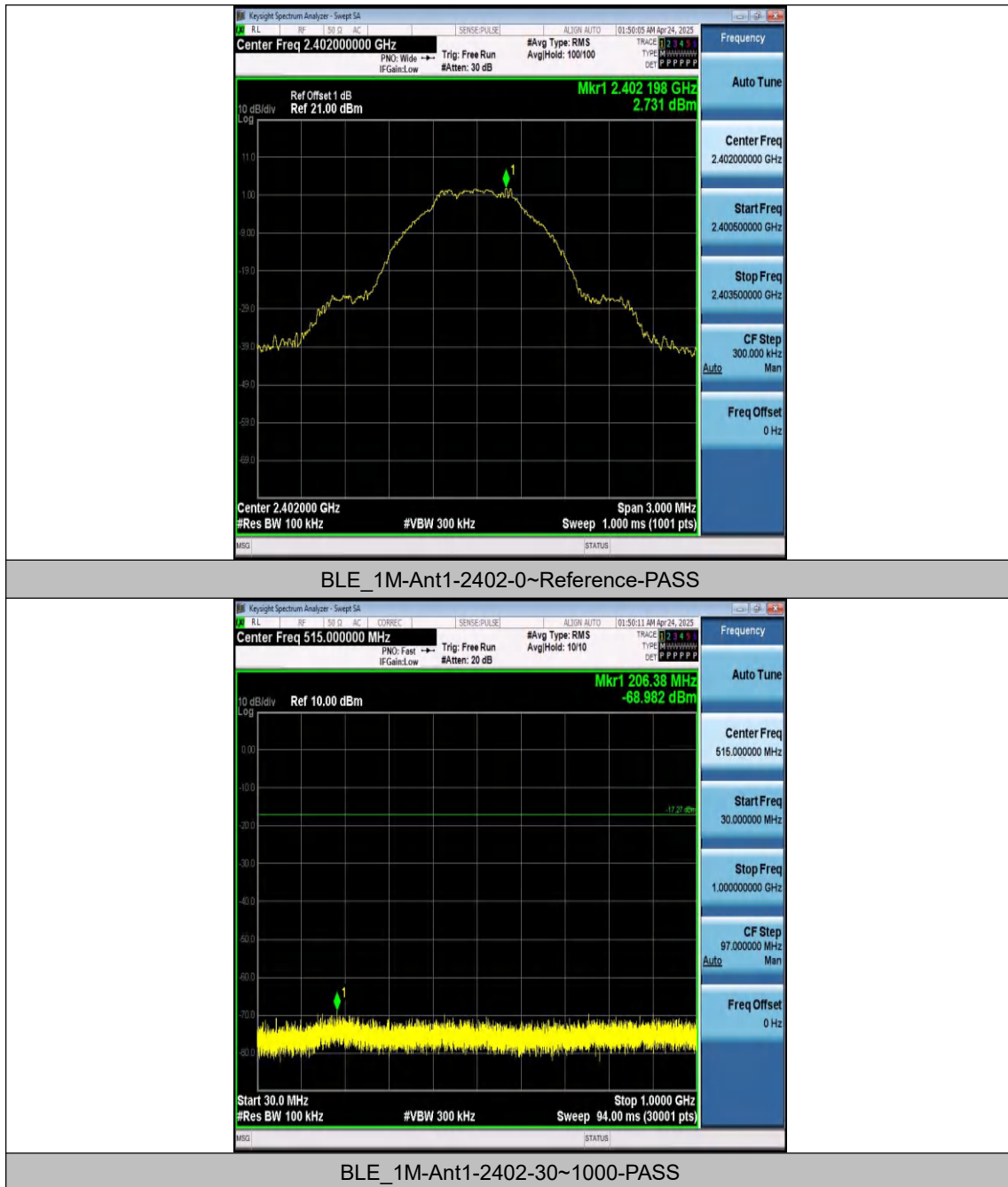
## Appendix F: Conducted Spurious Emission

### Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.73	2.73	---	PASS
BLE_1M	Ant1	2402	30~1000	2.73	-68.98	≤-17.27	PASS
BLE_1M	Ant1	2402	1000~26500	2.73	-34.39	≤-17.27	PASS
BLE_1M	Ant1	2440	0~Reference	2.87	2.87	---	PASS
BLE_1M	Ant1	2440	30~1000	2.87	-68.85	≤-17.13	PASS
BLE_1M	Ant1	2440	1000~26500	2.87	-36.31	≤-17.13	PASS
BLE_1M	Ant1	2480	0~Reference	2.48	2.48	---	PASS
BLE_1M	Ant1	2480	30~1000	2.48	-69.19	≤-17.52	PASS
BLE_1M	Ant1	2480	1000~26500	2.48	-34.65	≤-17.52	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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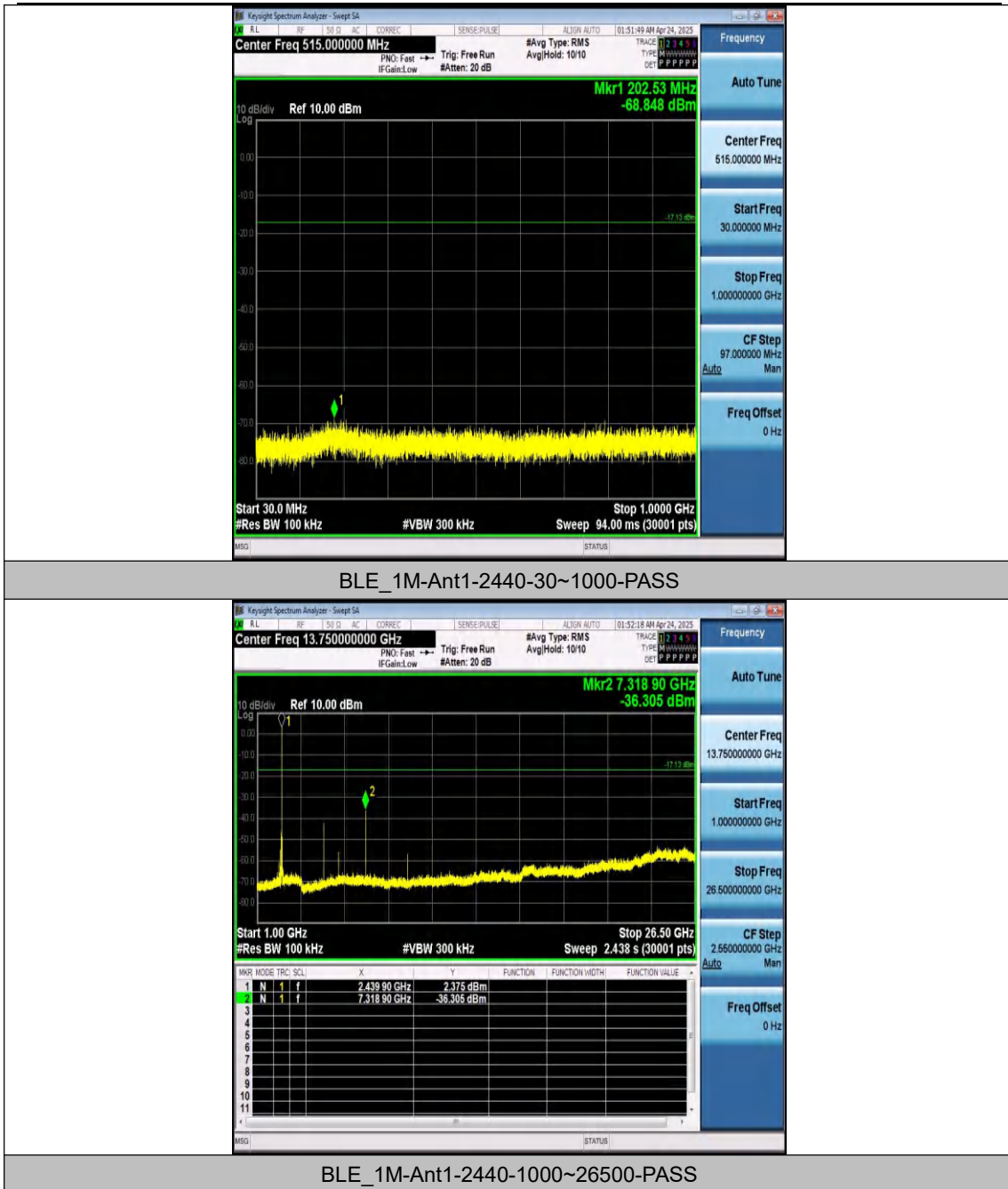


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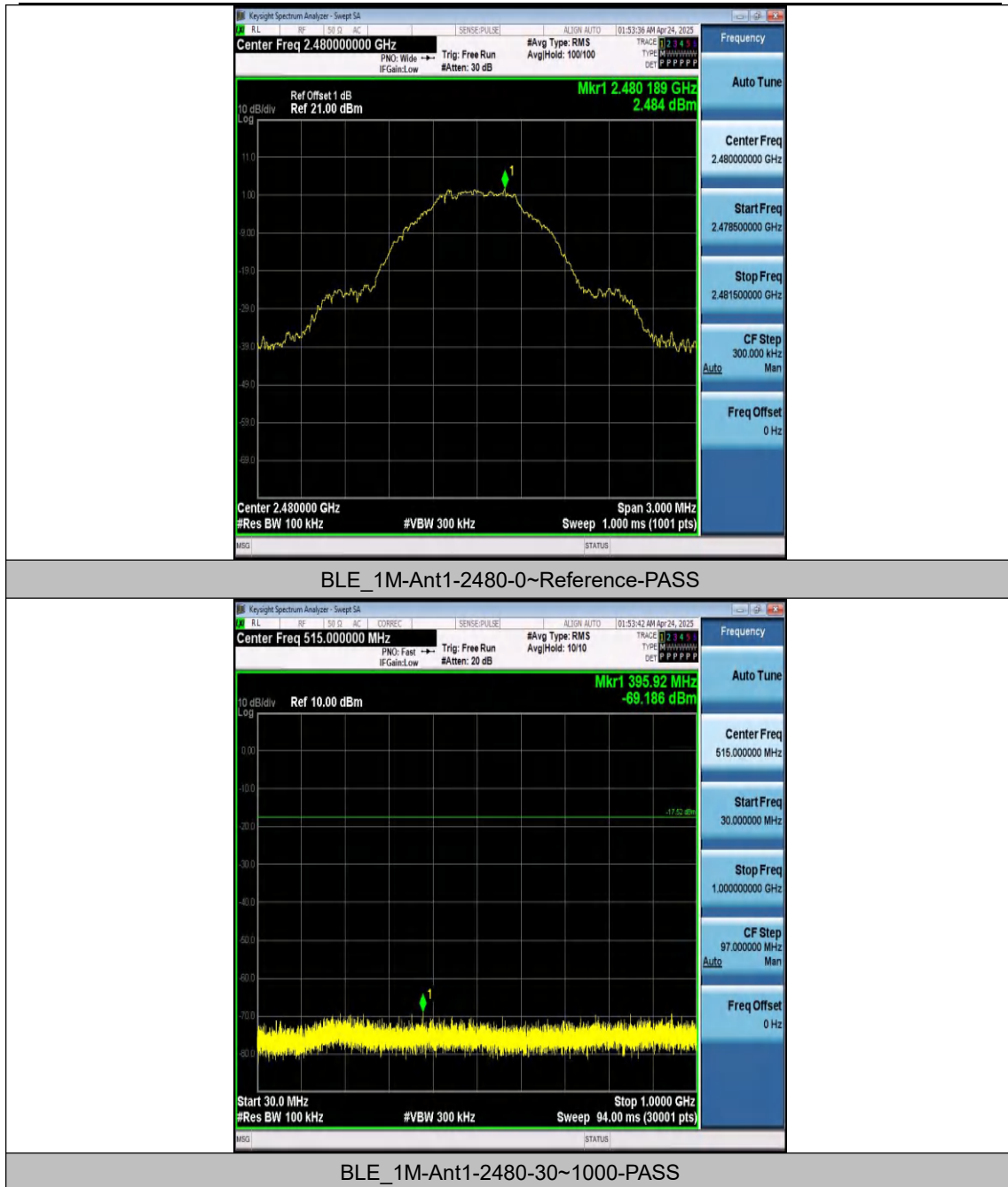
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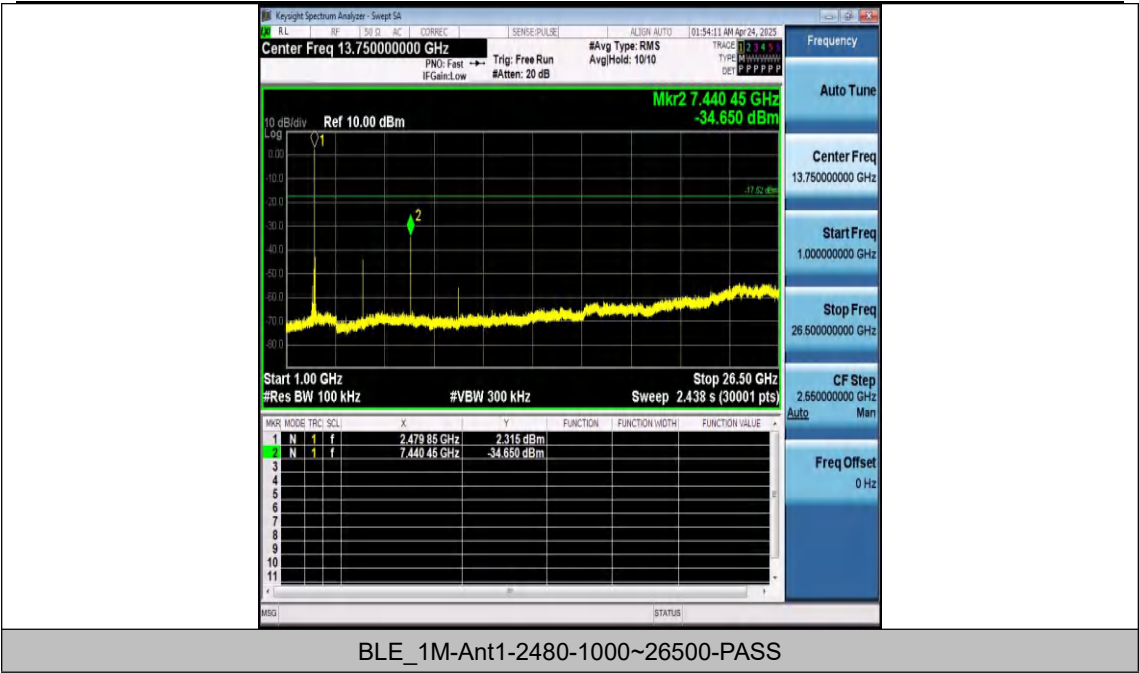
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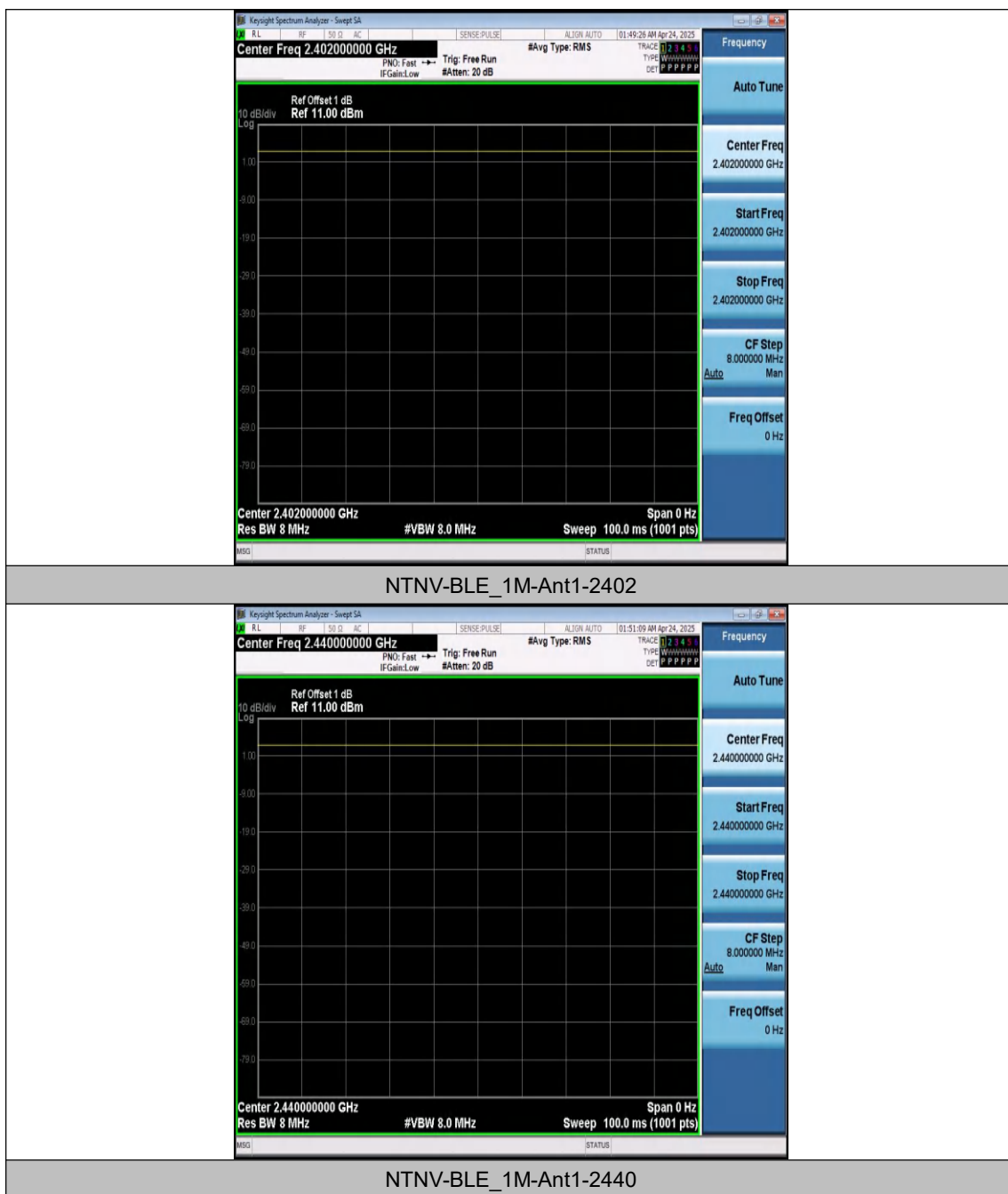
## Appendix G: Duty Cycle

### Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	NaN
BLE_1M	Ant1	2440	0.00	0.00	100	NaN
BLE_1M	Ant1	2480	0.00	0.00	100	NaN



## Test Graphs

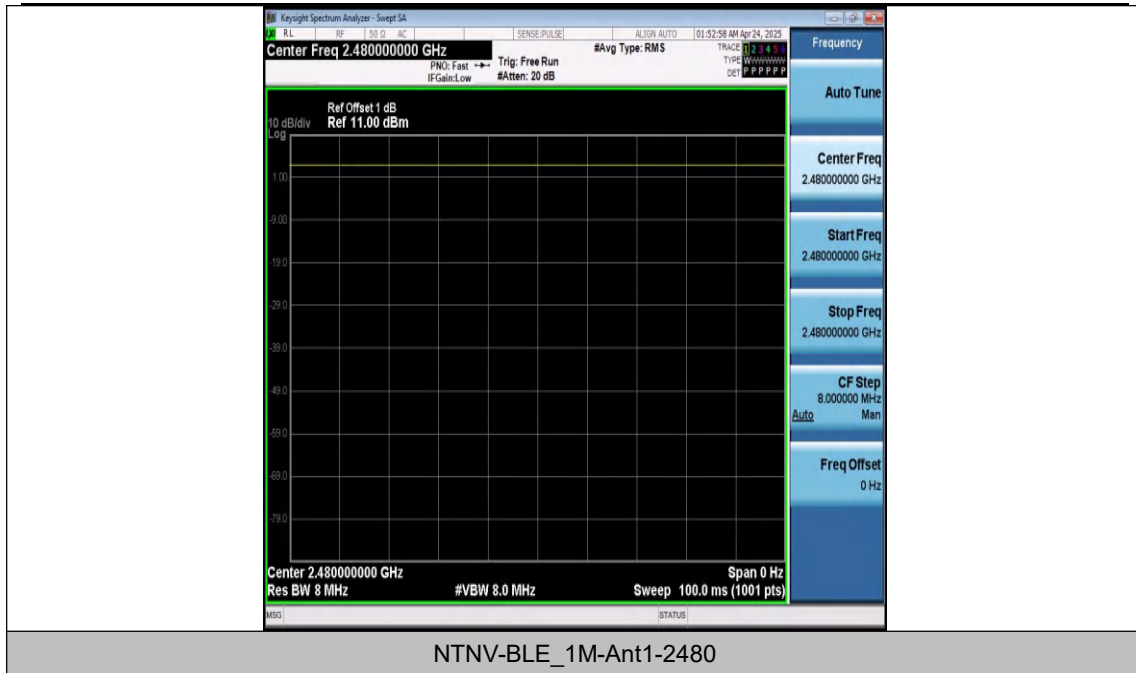


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