

### Appendix Test Data

Report No.:	1813C50237812501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-10	Finish Test Date:	2025-06-18
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	Relative Humidity:	53%
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	0.656	2401.688	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.692	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.676	2480.348	0.5	PASS

**Test Graphs**



BLE\_1M-Ant1-2402-PASS

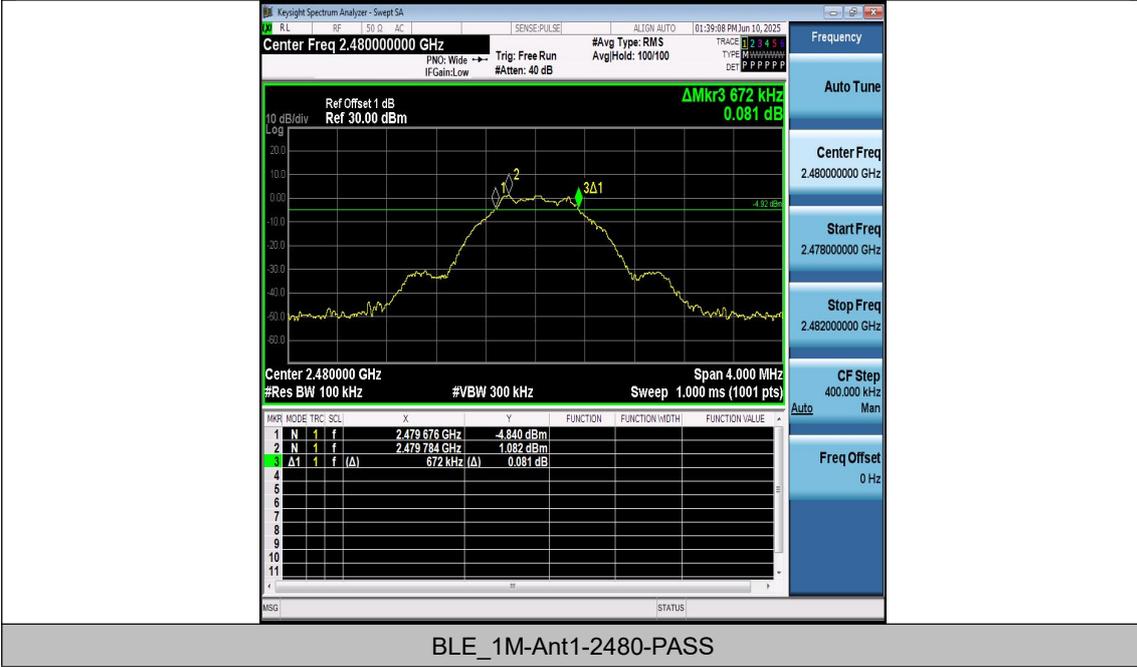


BLE\_1M-Ant1-2440-PASS

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BLE\_1M-Ant1-2480-PASS

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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	0.99058	2401.5316	2402.5222	---	---
BLE_1M	Ant1	2440	0.98841	2439.5316	2440.5200	---	---
BLE_1M	Ant1	2480	1.0097	2479.5210	2480.5307	---	---

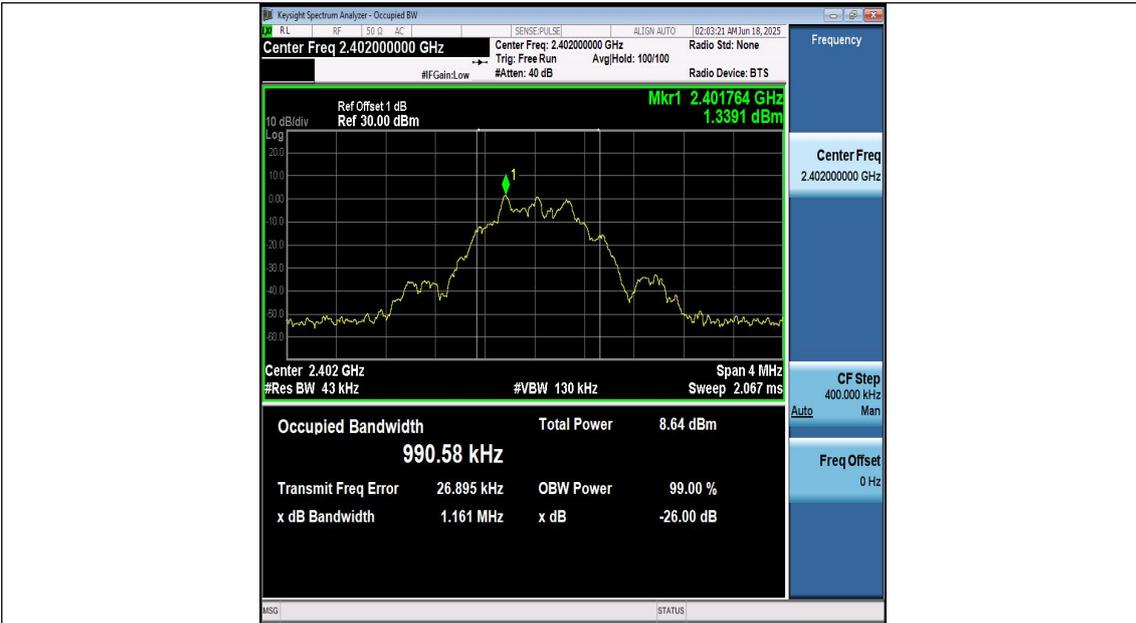
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**Test Graphs**



BLE\_1M-Ant1-2402

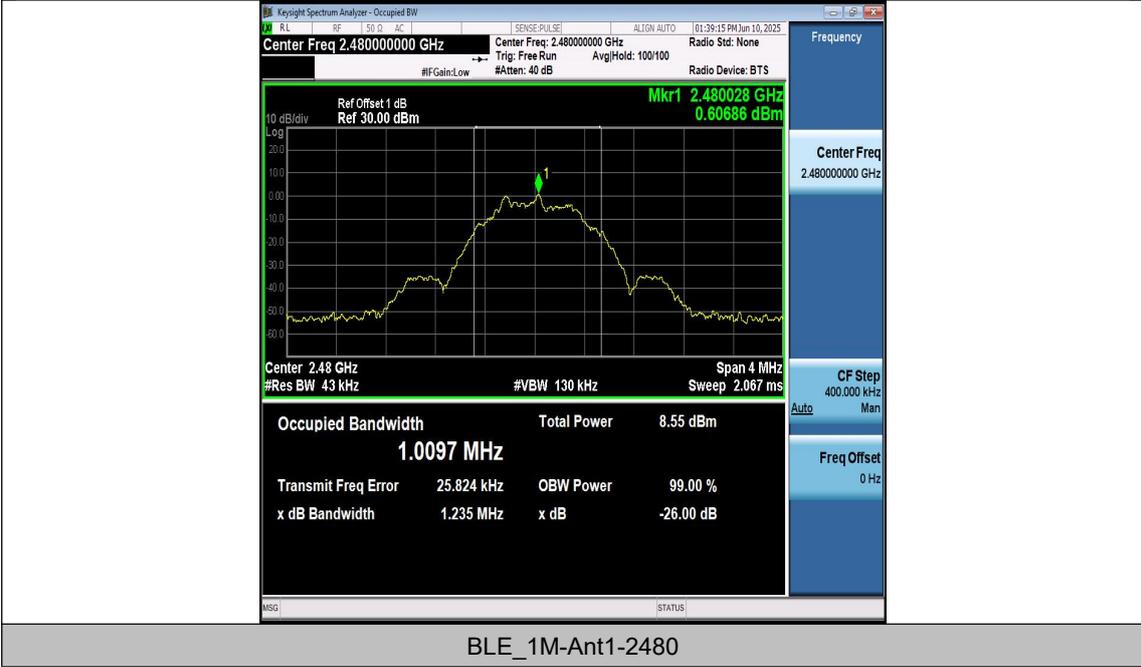


BLE\_1M-Ant1-2440

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BLE\_1M-Ant1-2480

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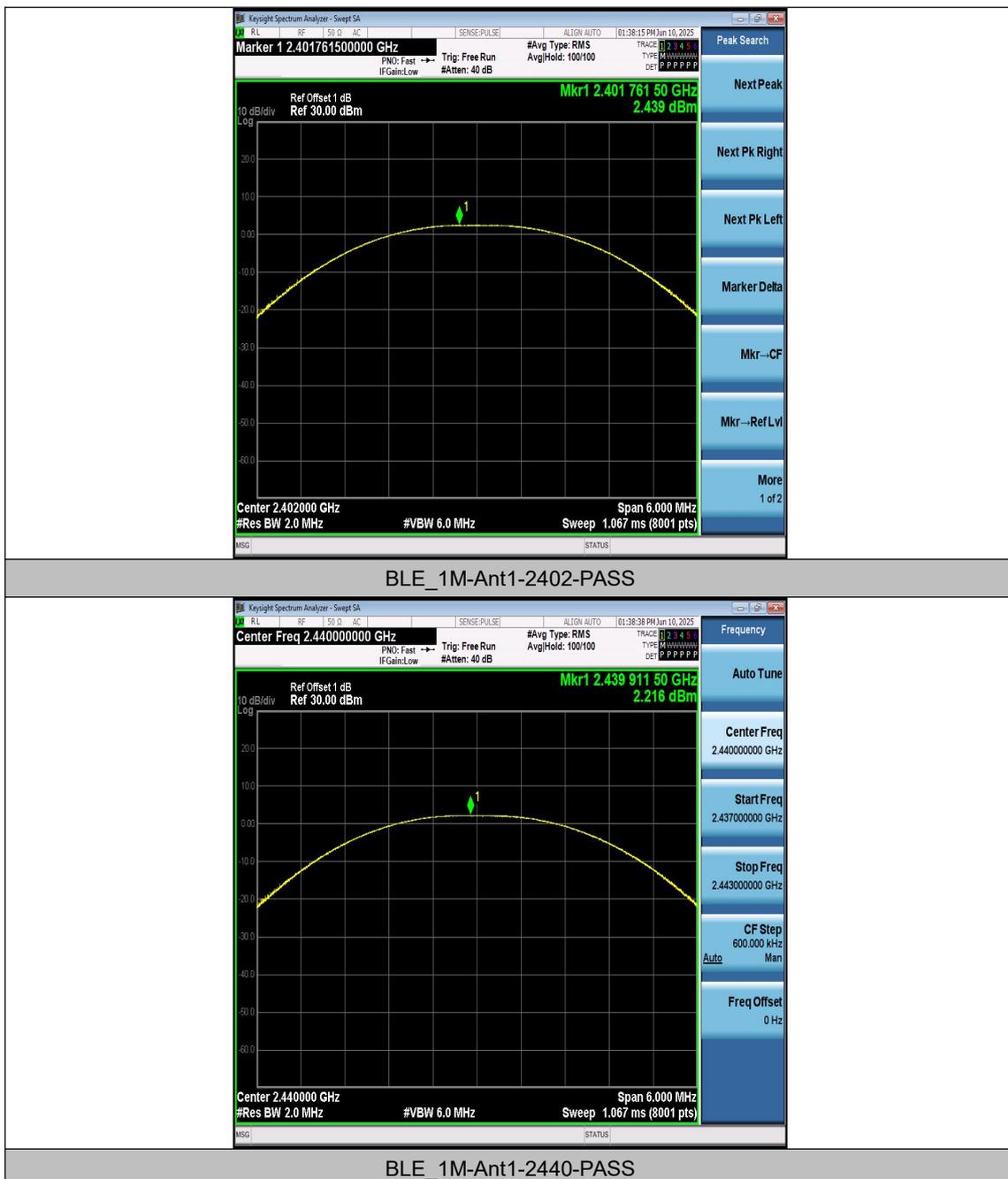
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## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.44	≤30	PASS
BLE_1M	Ant1	2440	2.22	≤30	PASS
BLE_1M	Ant1	2480	1.86	≤30	PASS

### Test Graphs Peak



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## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	1.29	-8.71	≤8.00	PASS
BLE_1M	Ant1	2440	1.31	-8.69	≤8.00	PASS
BLE_1M	Ant1	2480	-0.91	-10.91	≤8.00	PASS

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

**Test Graphs**



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS

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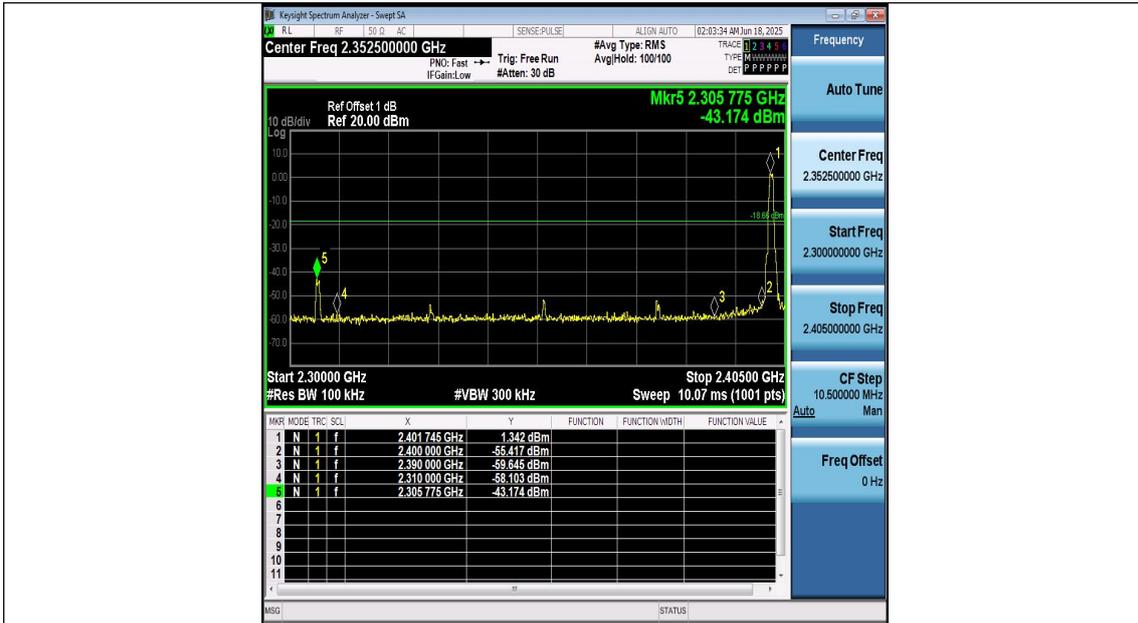
## Appendix E: Band edge measurements

### Test Result

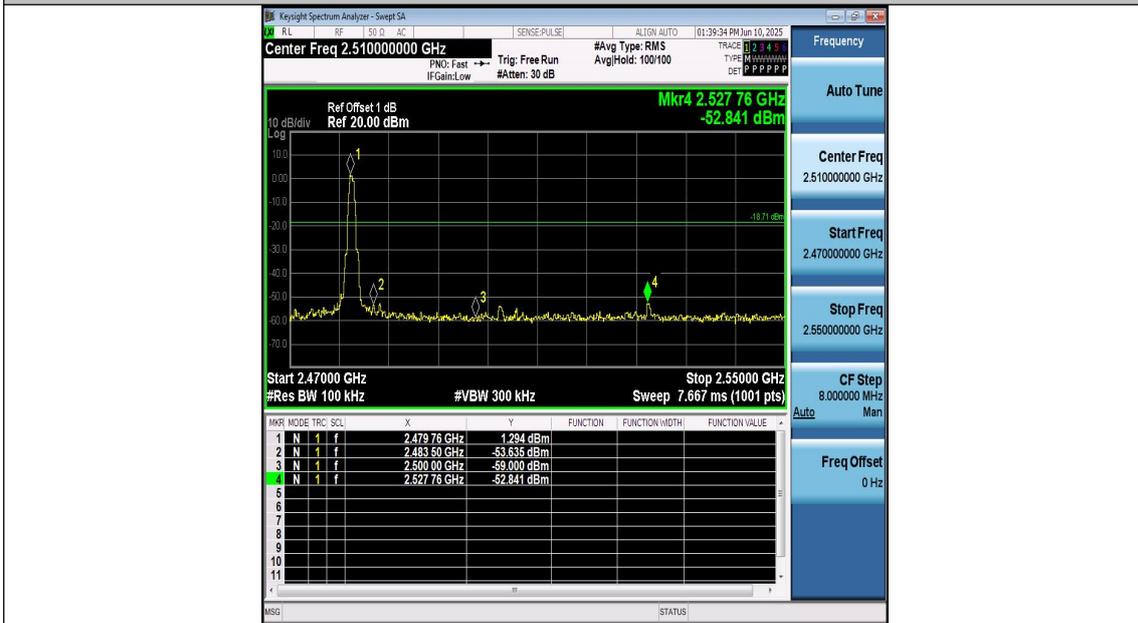
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-43.17	≤-18.66	PASS
BLE_1M	Ant1	High	2480	1.29	-52.84	≤-18.71	PASS

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**



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS

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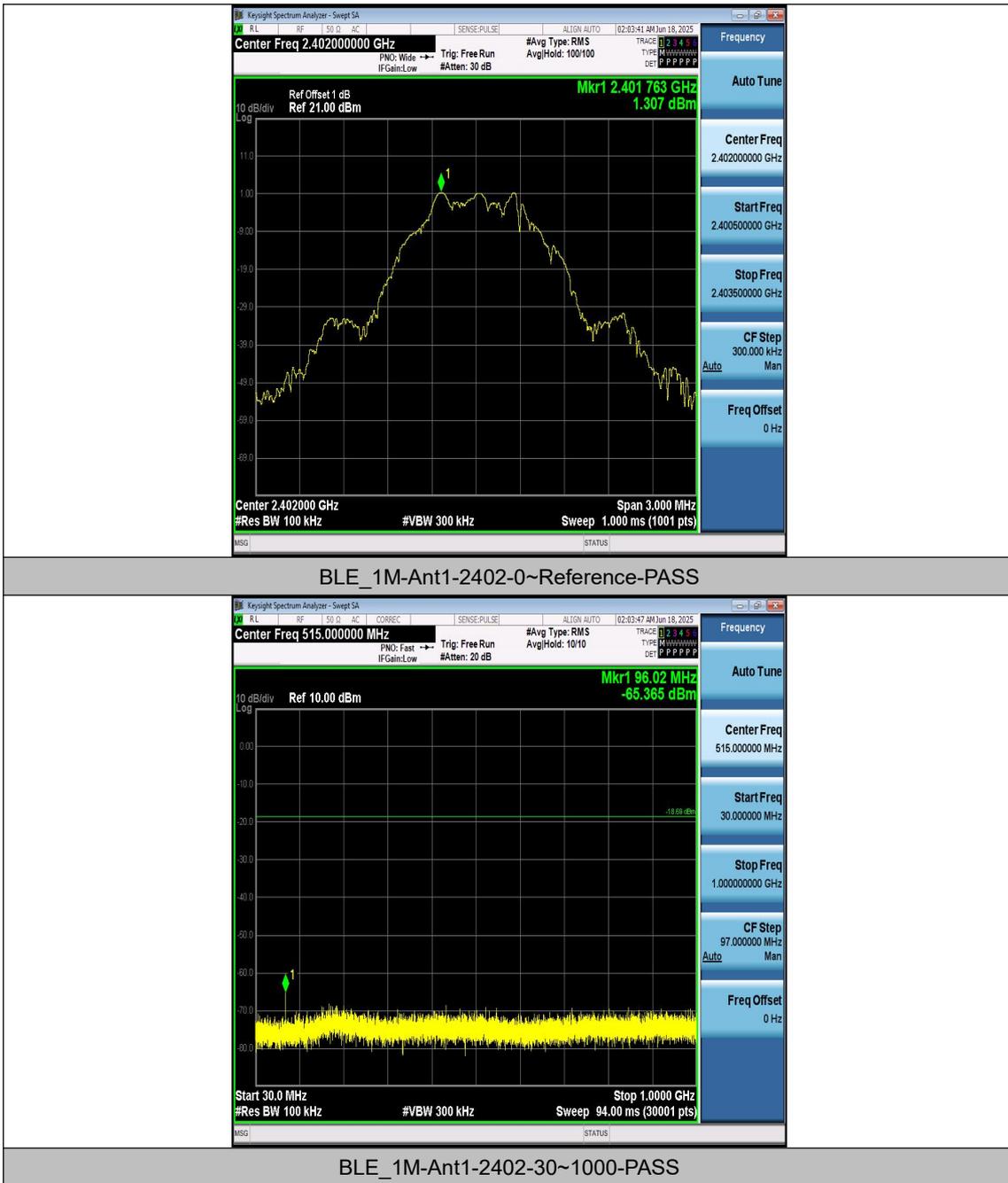
## Appendix F: Conducted Spurious Emission

### Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.31	1.31	---	PASS
BLE_1M	Ant1	2402	30~1000	1.31	-65.37	≤-18.69	PASS
BLE_1M	Ant1	2402	1000~26500	1.31	-38.9	≤-18.69	PASS
BLE_1M	Ant1	2440	0~Reference	1.34	1.34	---	PASS
BLE_1M	Ant1	2440	30~1000	1.34	-66.25	≤-18.66	PASS
BLE_1M	Ant1	2440	1000~26500	1.34	-40.4	≤-18.66	PASS
BLE_1M	Ant1	2480	0~Reference	1.34	1.34	---	PASS
BLE_1M	Ant1	2480	30~1000	1.34	-63.27	≤-18.66	PASS
BLE_1M	Ant1	2480	1000~26500	1.34	-40.91	≤-18.66	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.

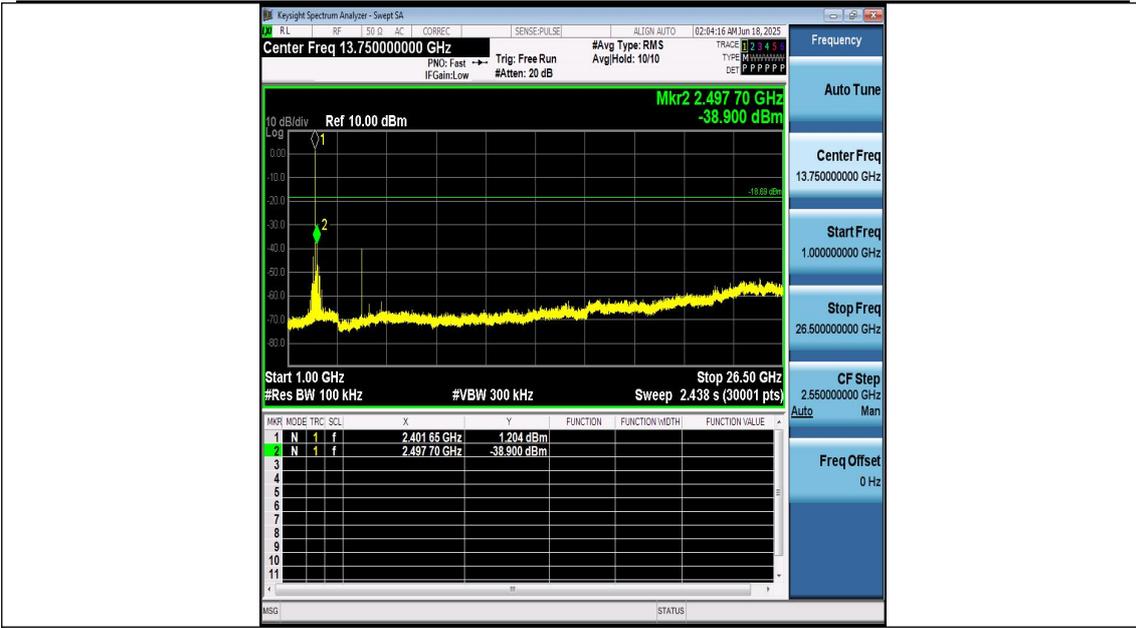
**Test Graphs**



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BLE\_1M-Ant1-2402-1000~26500-PASS

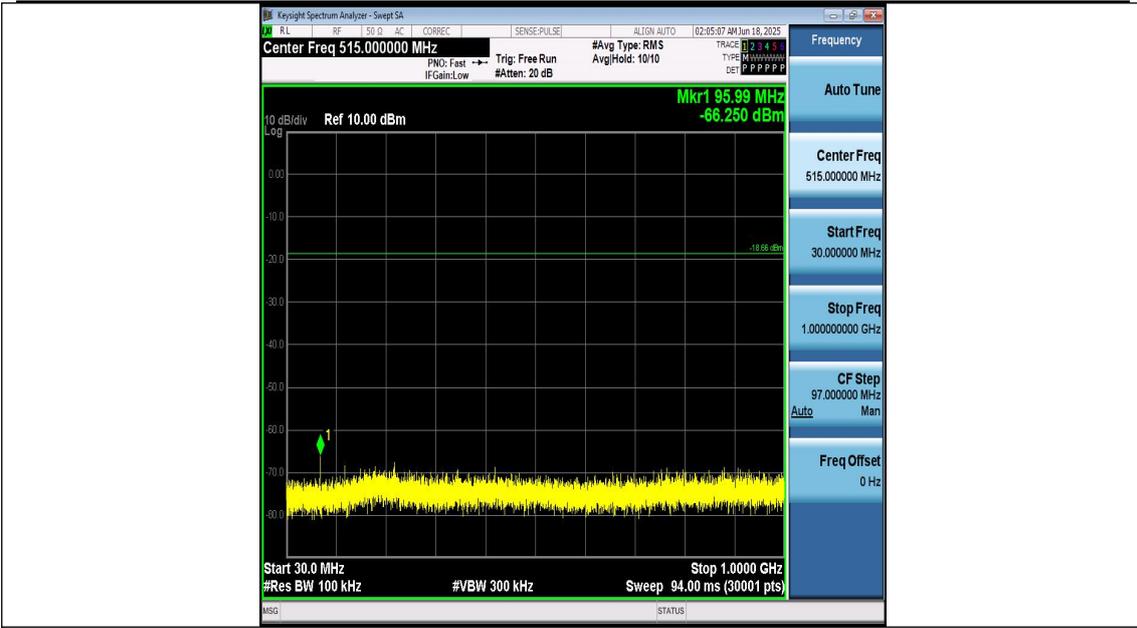


BLE\_1M-Ant1-2440-0~Reference-PASS

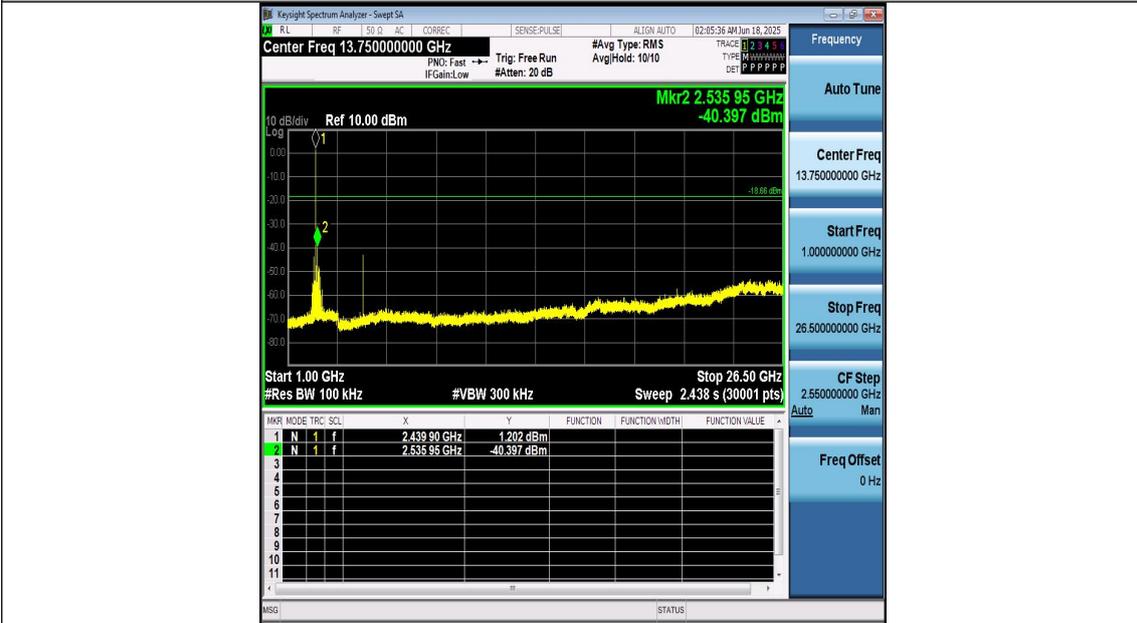
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BLE\_1M-Ant1-2440-30~1000-PASS



BLE\_1M-Ant1-2440-1000~26500-PASS

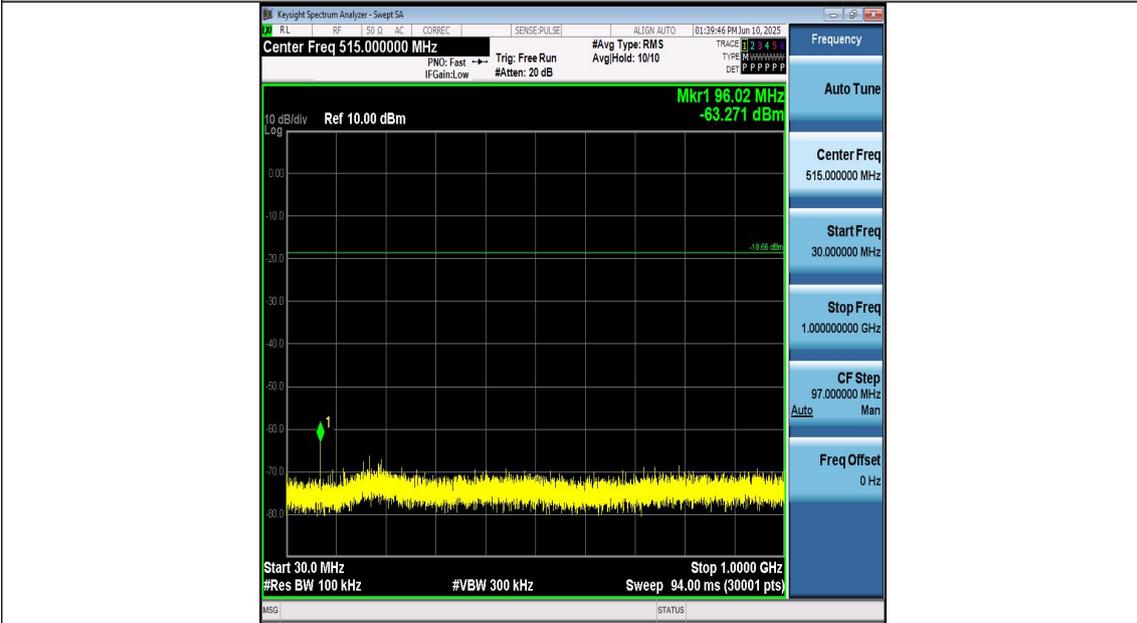
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BLE\_1M-Ant1-2480-0~Reference-PASS

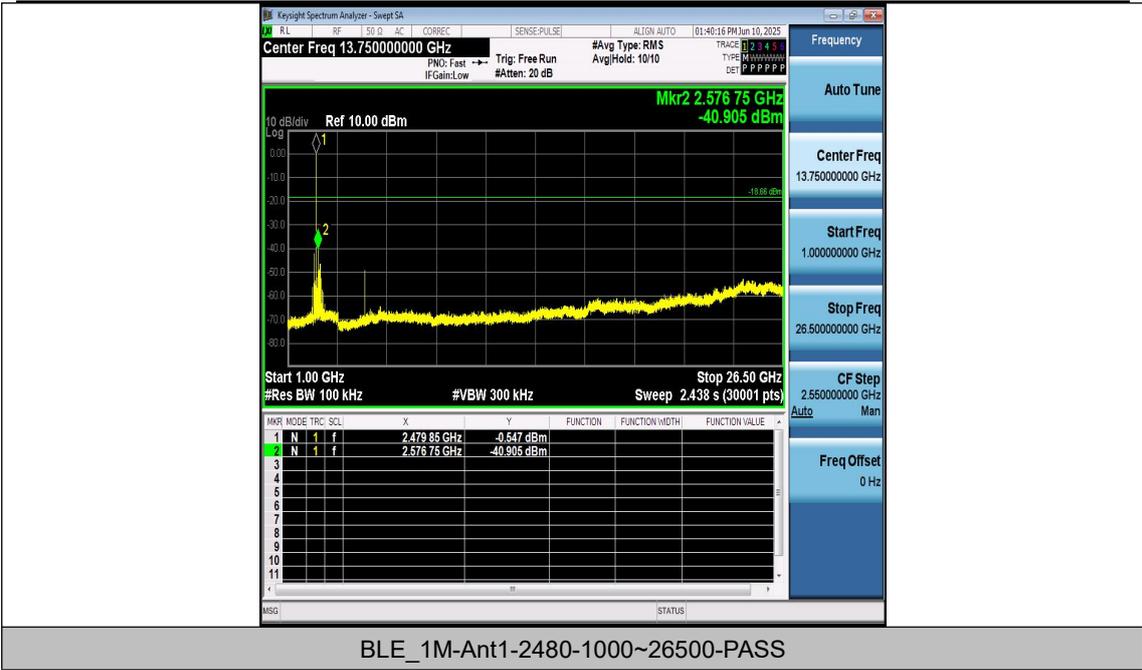


BLE\_1M-Ant1-2480-30~1000-PASS

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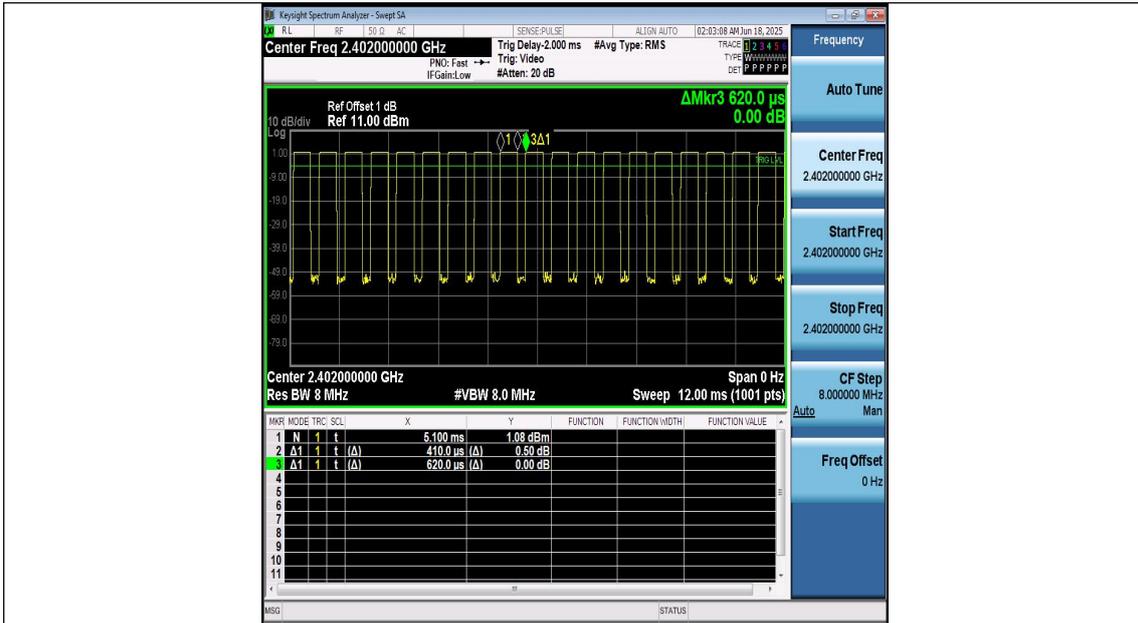
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## Appendix G: Duty Cycle

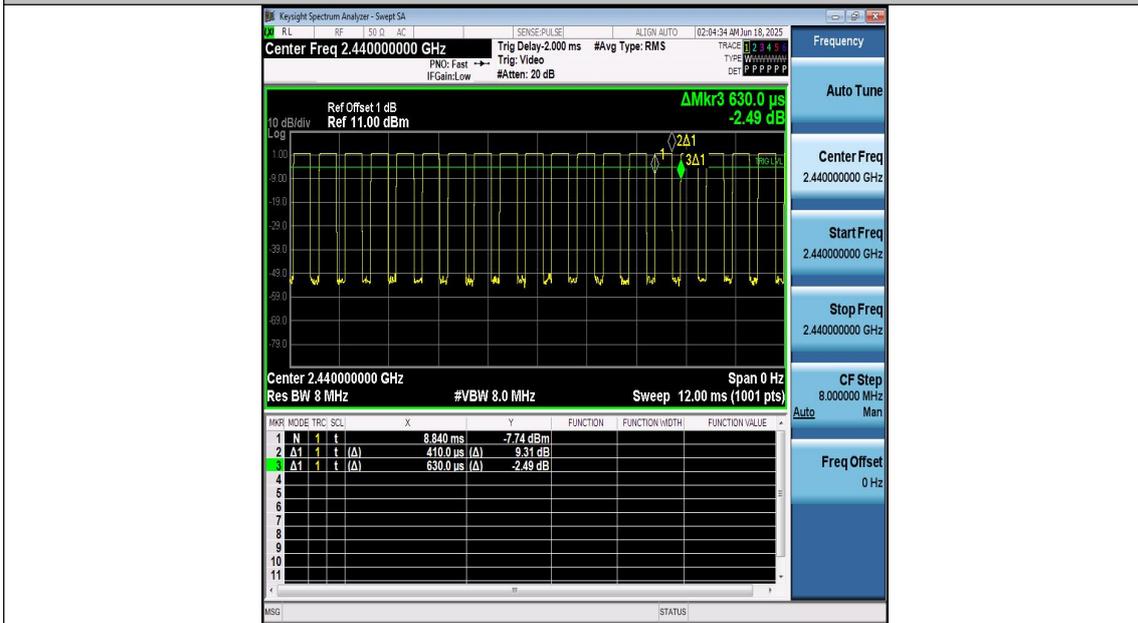
### Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2440	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2480	0.41	0.62	66.13	1.80

**Test Graphs**



NTNV-BLE\_1M-Ant1-2402

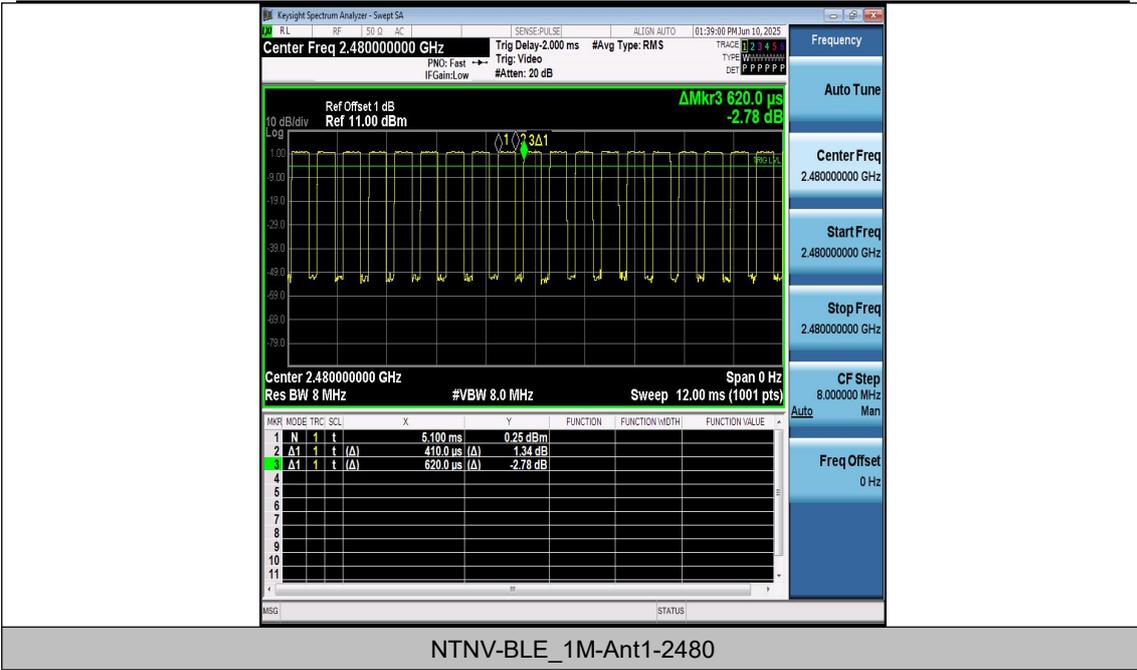


NTNV-BLE\_1M-Ant1-2440

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