

## Appendix Test Data

Report No.:	18220WC40082701	Test Sample No.:	1-2-2
Start Test Date:	2024.04.28	Finish Test Date:	2024.04.29
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.828	2401.644	2402.472	0.5	PASS
BLE_1M	Ant1	2440	0.768	2439.636	2440.404	0.5	PASS
BLE_1M	Ant1	2480	0.720	2479.640	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.028	2401.484	2402.512	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.412	2440.520	0.5	PASS
BLE_2M	Ant1	2480	1.128	2479.484	2480.612	0.5	PASS

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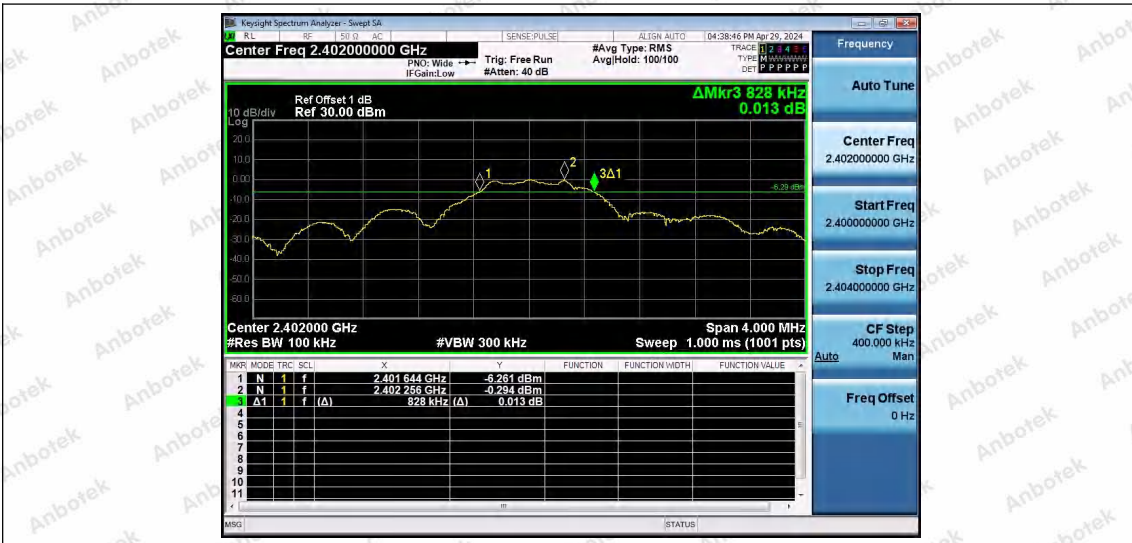
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## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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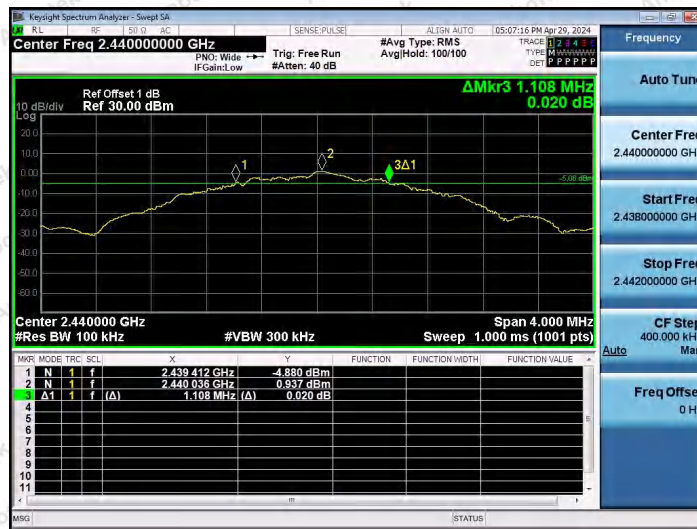
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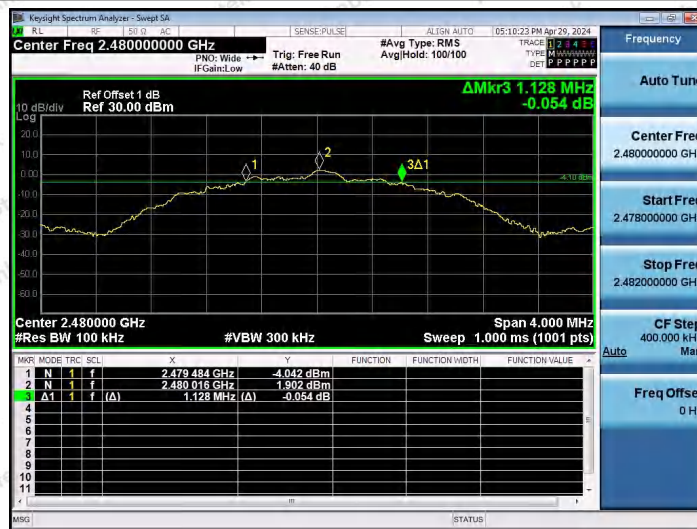




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	2.0645	2401.0076	2403.0721	---	---
BLE_1M	Ant1	2440	1.8039	2439.1285	2440.9324	---	---
BLE_1M	Ant1	2480	1.2689	2479.3638	2480.6327	---	---
BLE_2M	Ant1	2402	2.3188	2400.8573	2403.1761	---	---
BLE_2M	Ant1	2440	2.2398	2438.8936	2441.1334	---	---
BLE_2M	Ant1	2480	2.2503	2478.8786	2481.1289	---	---

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## Test Graphs



BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



BLE\_1M-Ant1-2480

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BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480

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## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.27	≤30	PASS
BLE_1M	Ant1	2440	1.34	≤30	PASS
BLE_1M	Ant1	2480	2.31	≤30	PASS
BLE_2M	Ant1	2402	0.31	≤30	PASS
BLE_2M	Ant1	2440	1.37	≤30	PASS
BLE_2M	Ant1	2480	<b>2.33</b>	≤30	PASS



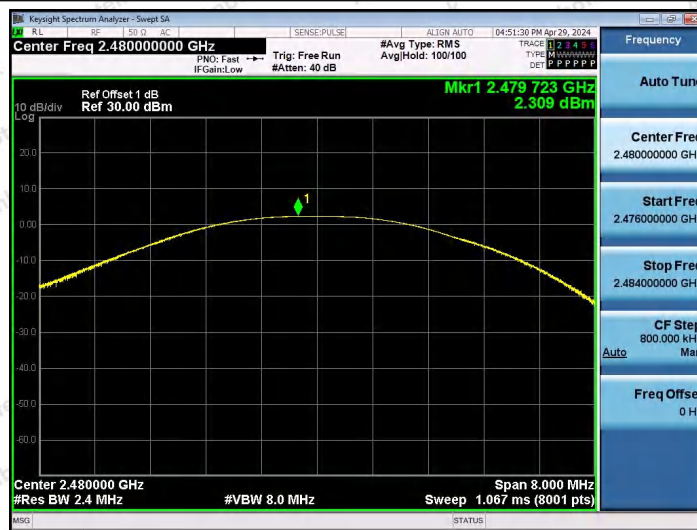
## Test Graphs Peak



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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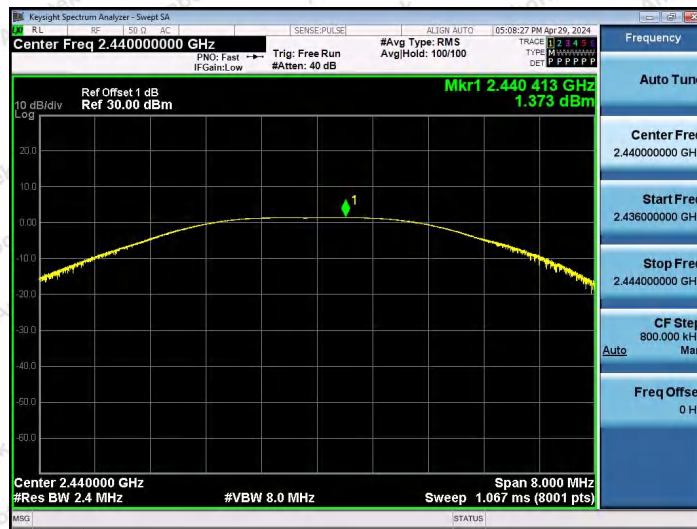
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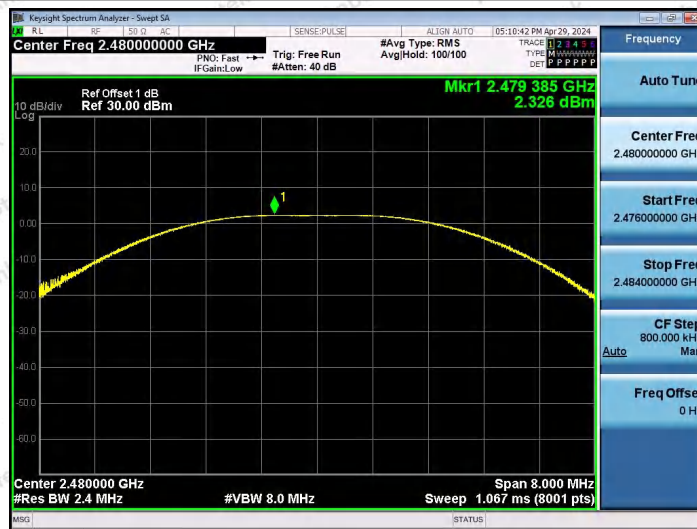




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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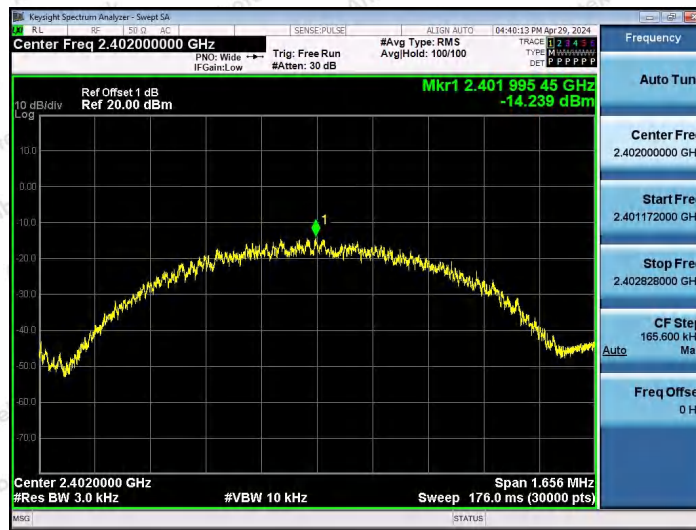
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.24	≤8.00	PASS
BLE_1M	Ant1	2440	-12.78	≤8.00	PASS
BLE_1M	Ant1	2480	-11.10	≤8.00	PASS
BLE_2M	Ant1	2402	-14.98	≤8.00	PASS
BLE_2M	Ant1	2440	-14.62	≤8.00	PASS
BLE_2M	Ant1	2480	-13.34	≤8.00	PASS



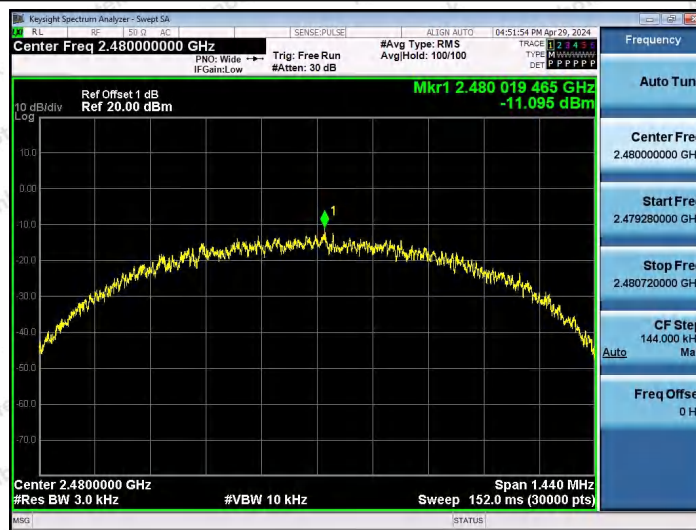
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



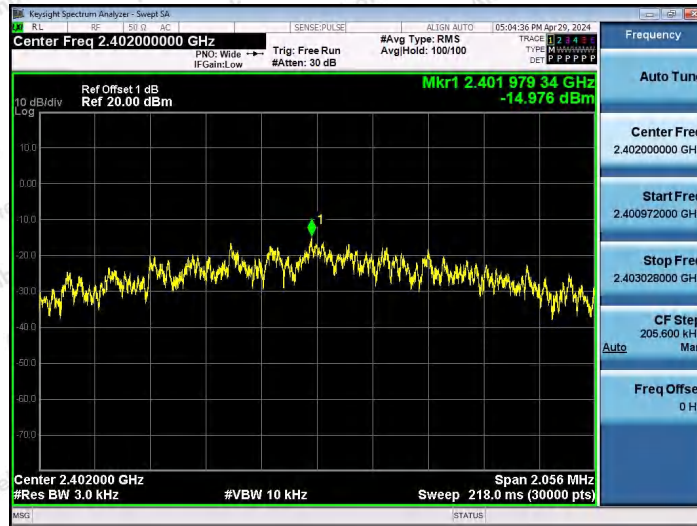
BLE\_1M-Ant1-2480-PASS

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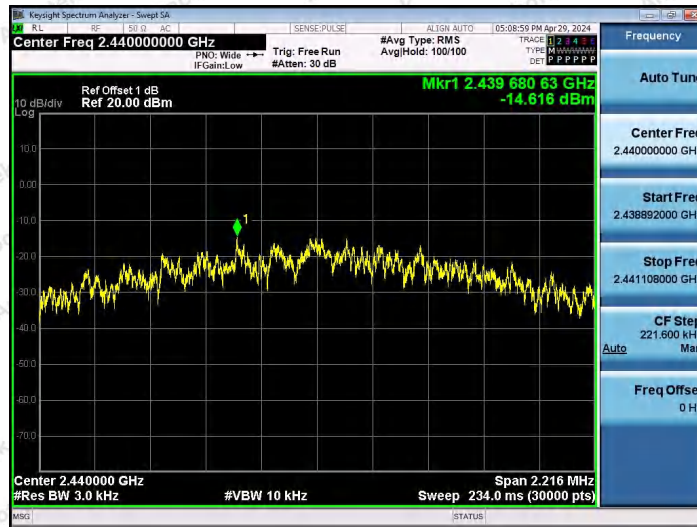
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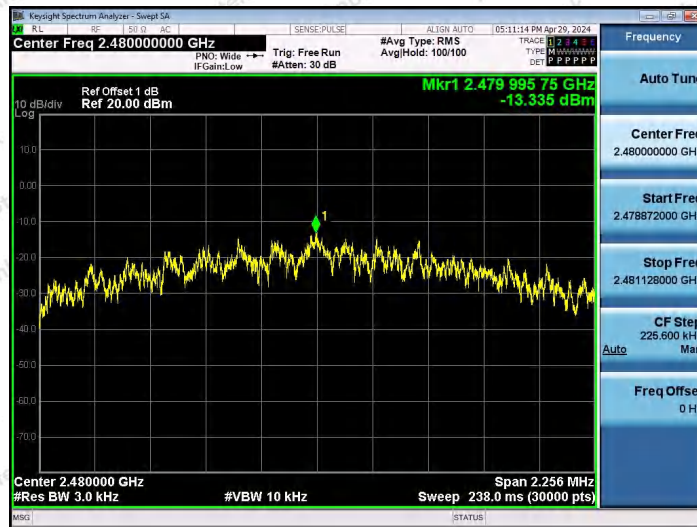




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.67	-28.5	≤-20.67	PASS
BLE_1M	Ant1	High	2480	1.88	-48.04	≤-18.12	PASS
BLE_2M	Ant1	Low	2402	-0.48	-28.06	≤-20.48	PASS
BLE_2M	Ant1	High	2480	1.72	-49.89	≤-18.28	PASS

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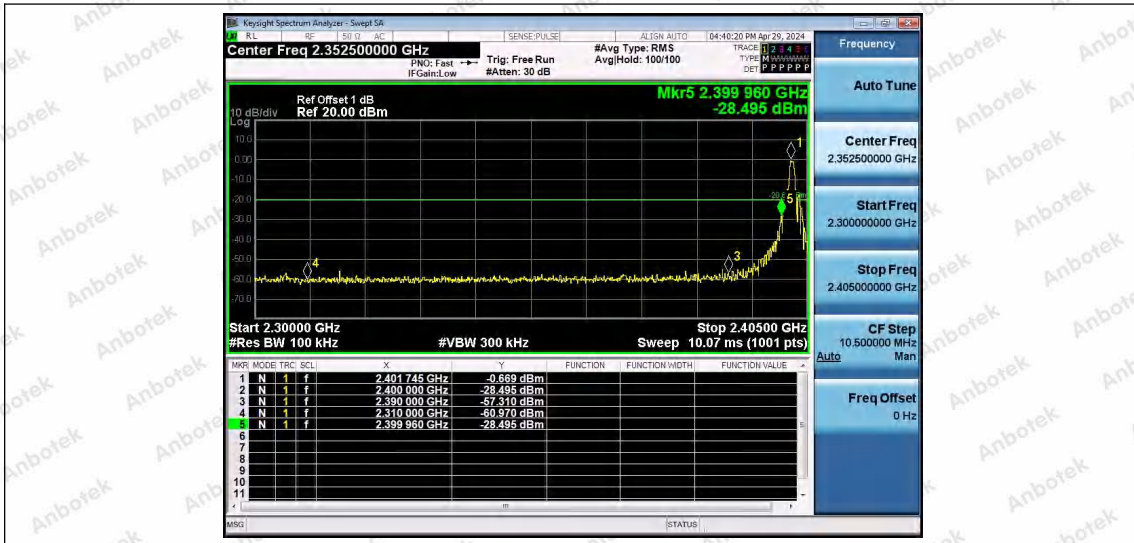
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



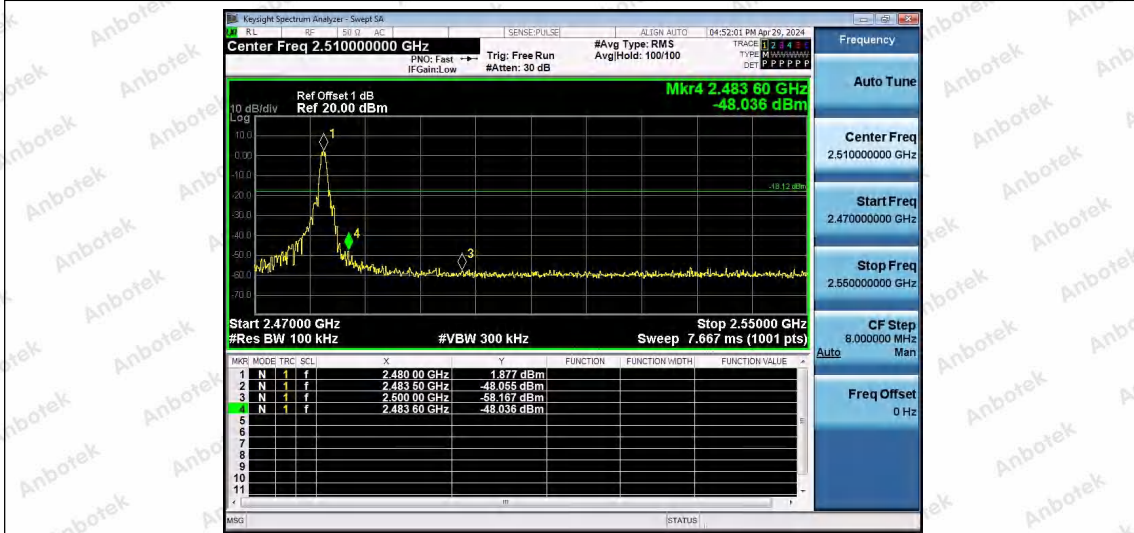
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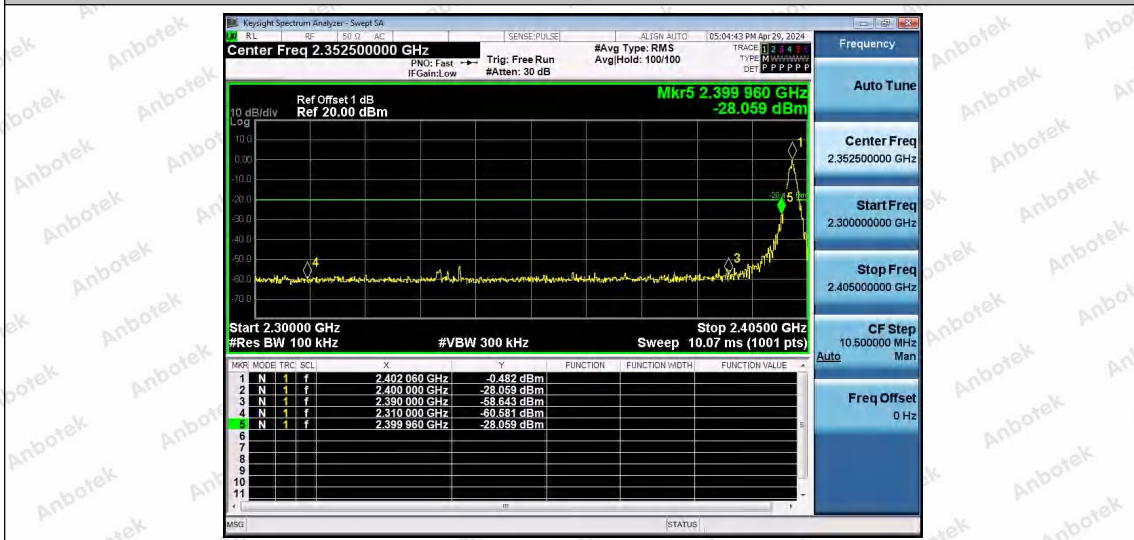
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



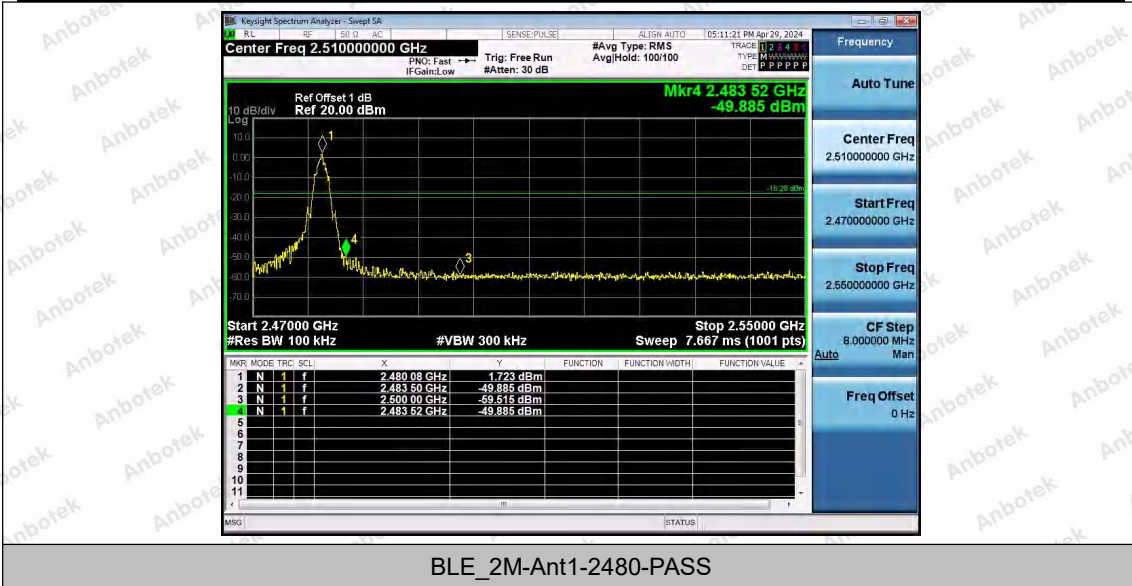
BLE\_2M-Ant1-2402-PASS

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## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.23	-0.23	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.23	-67.74	≤-20.23	PASS
BLE_1M	Ant1	2402	1000~26500	-0.23	-22.36	≤-20.23	PASS
BLE_1M	Ant1	2440	0~Reference	0.89	0.89	---	PASS
BLE_1M	Ant1	2440	30~1000	0.89	-67.86	≤-19.11	PASS
BLE_1M	Ant1	2440	1000~26500	0.89	-23.42	≤-19.11	PASS
BLE_1M	Ant1	2480	0~Reference	2.03	2.03	---	PASS
BLE_1M	Ant1	2480	30~1000	2.03	-67.05	≤-17.97	PASS
BLE_1M	Ant1	2480	1000~26500	2.03	-25.5	≤-17.97	PASS
BLE_2M	Ant1	2402	0~Reference	-0.21	-0.21	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.21	-68.11	≤-20.21	PASS
BLE_2M	Ant1	2402	1000~26500	-0.21	-23.24	≤-20.21	PASS
BLE_2M	Ant1	2440	0~Reference	0.88	0.88	---	PASS
BLE_2M	Ant1	2440	30~1000	0.88	-68.55	≤-19.12	PASS
BLE_2M	Ant1	2440	1000~26500	0.88	-22.93	≤-19.12	PASS
BLE_2M	Ant1	2480	0~Reference	1.98	1.98	---	PASS
BLE_2M	Ant1	2480	30~1000	1.98	-66.9	≤-18.02	PASS
BLE_2M	Ant1	2480	1000~26500	1.98	-25.32	≤-18.02	PASS

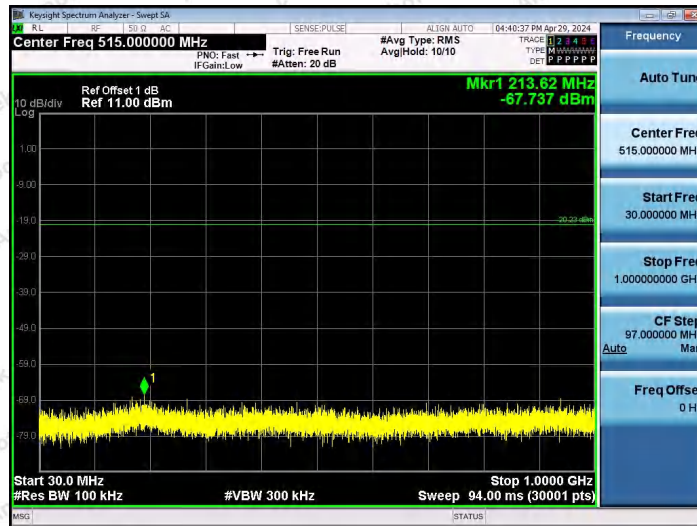




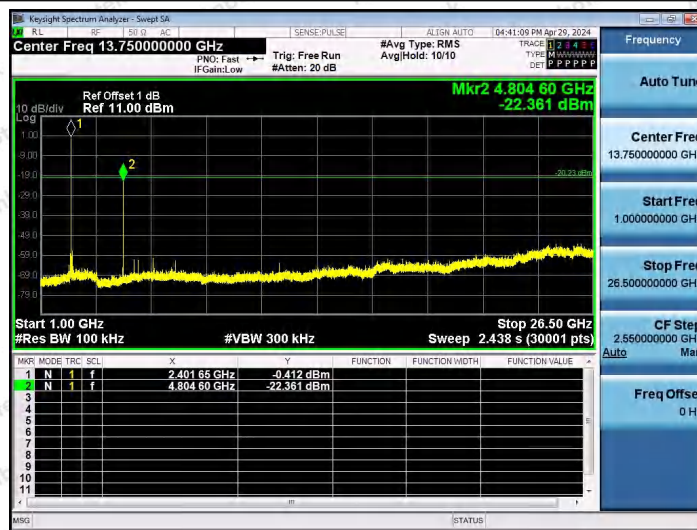
## Test Graphs



BLE\_1M-Ant1-2402-0~Reference-PASS



BLE\_1M-Ant1-2402-30~1000-PASS



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

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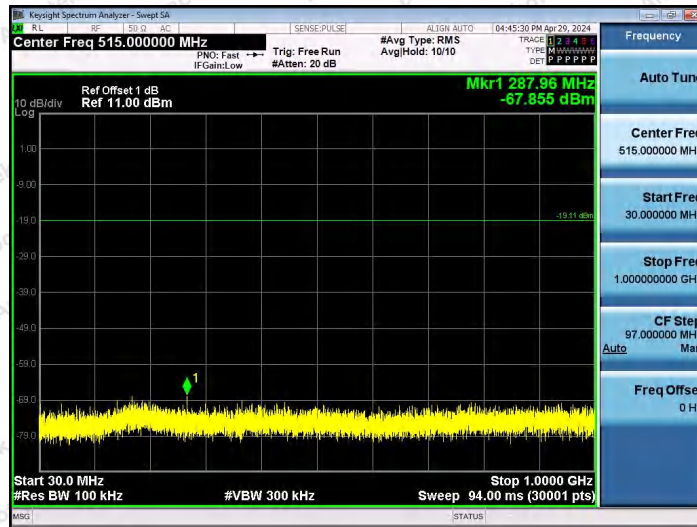
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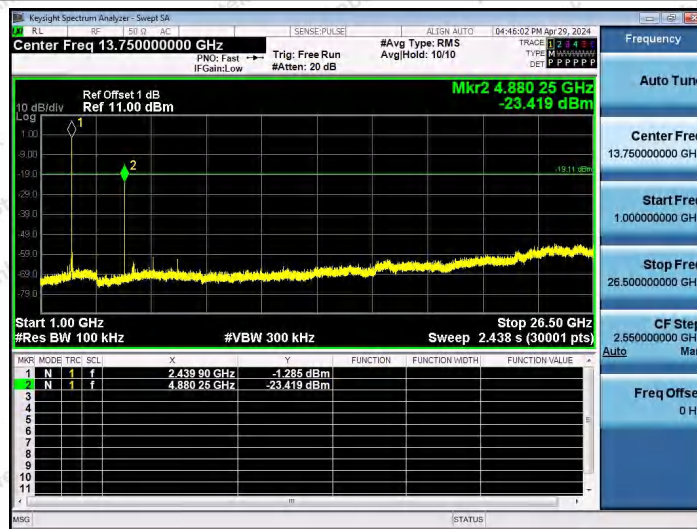




BLE\_1M-Ant1-2440-0~Reference-PASS



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



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

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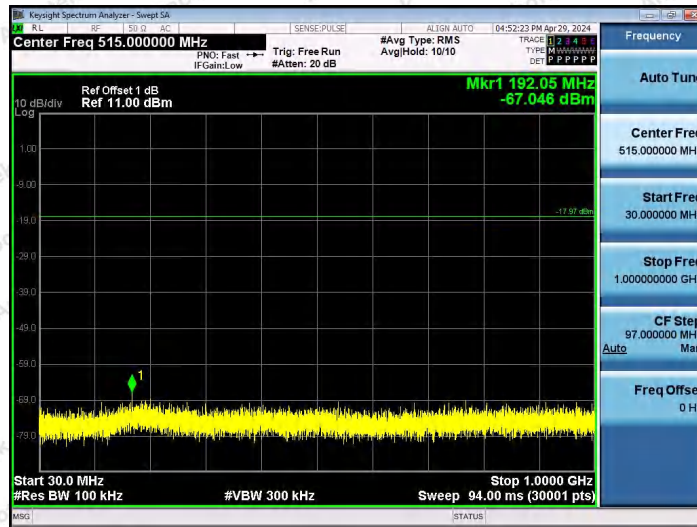
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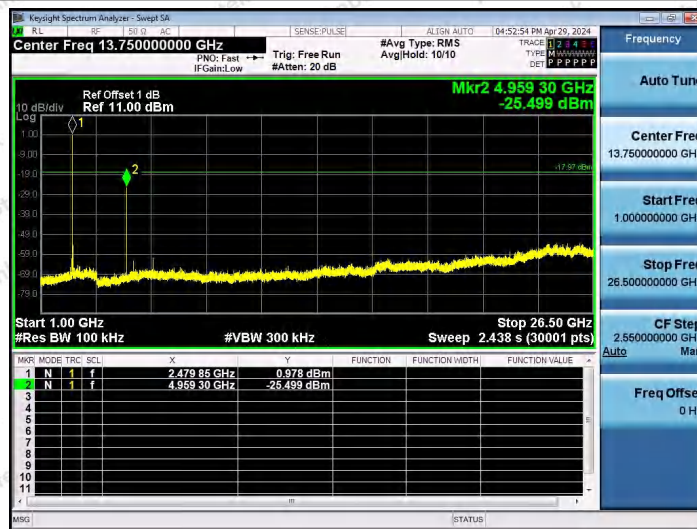




BLE\_1M-Ant1-2480-0~Reference-PASS



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



BLE\_1M-Ant1-2480-1000~26500-PASS

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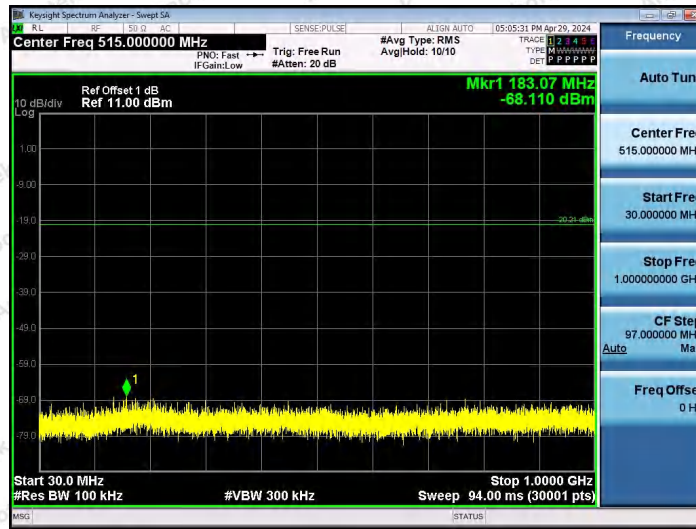
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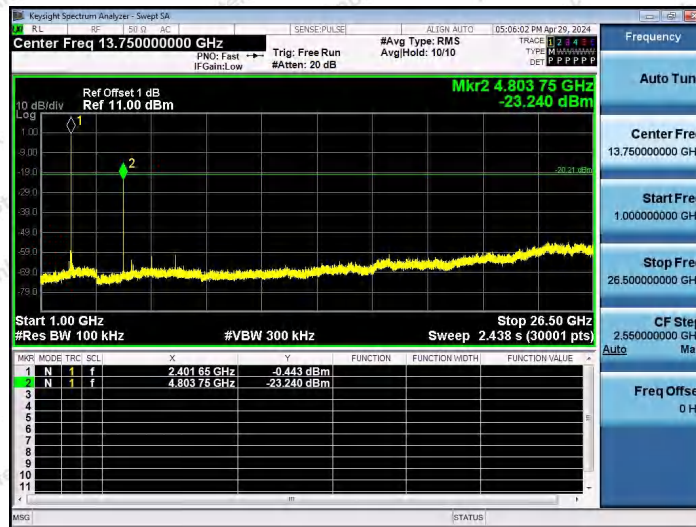




BLE\_2M-Ant1-2402-0~Reference-PASS



BLE\_2M-Ant1-2402-30~1000-PASS



BLE\_2M-Ant1-2402-1000~26500-PASS

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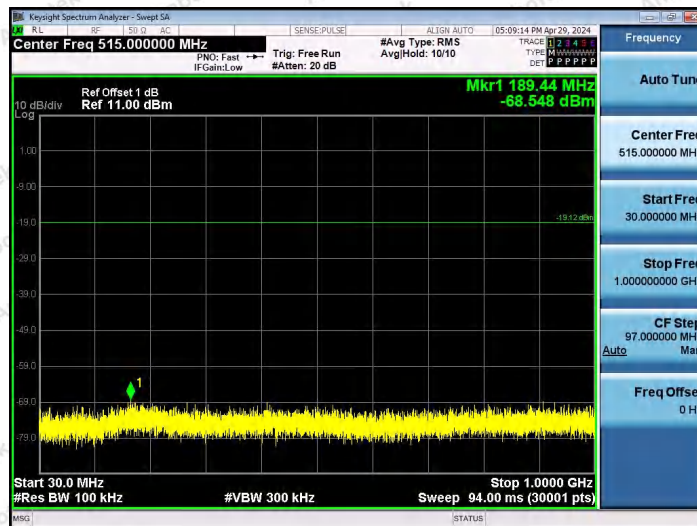
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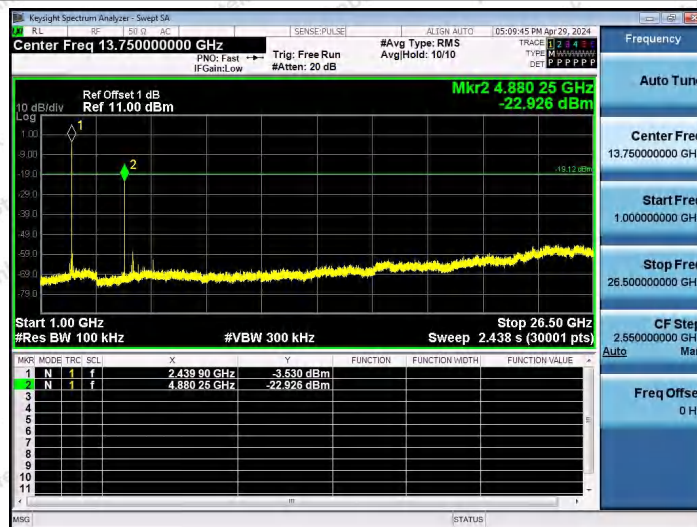




BLE\_2M-Ant1-2440-0~Reference-PASS



BLE\_2M-Ant1-2440-30~1000-PASS



BLE\_2M-Ant1-2440-1000~26500-PASS

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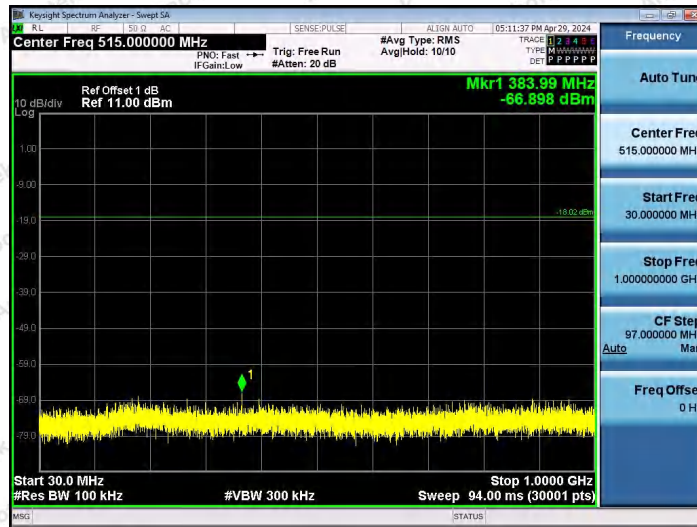
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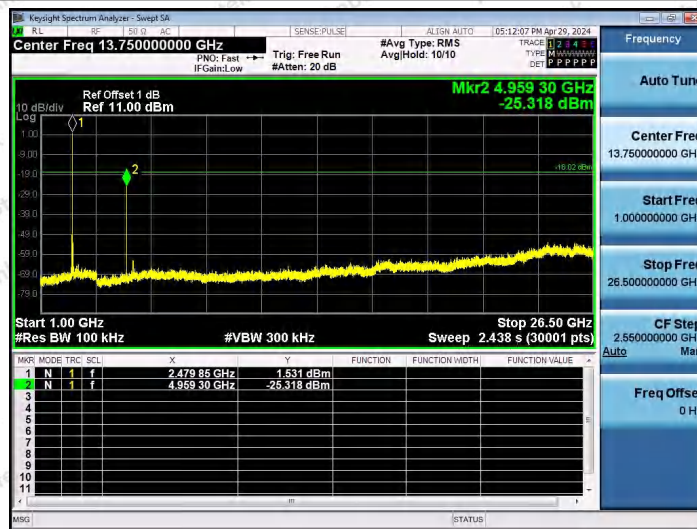




BLE\_2M-Ant1-2480-0~Reference-PASS



BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS

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## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2440	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2480	0.42	0.63	66.67	1.76
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2440	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2480	0.22	0.62	35.48	4.50

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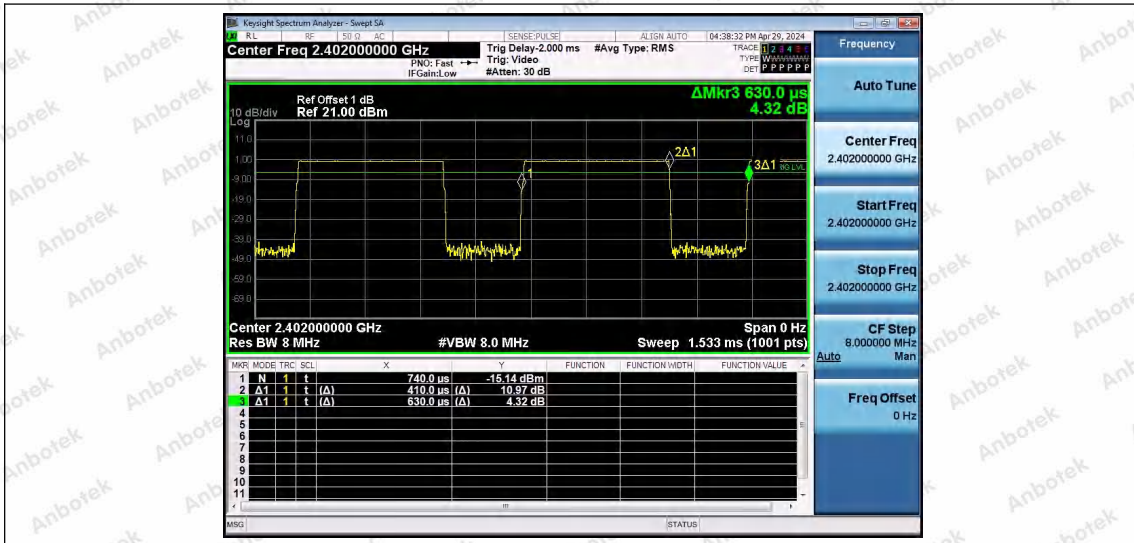
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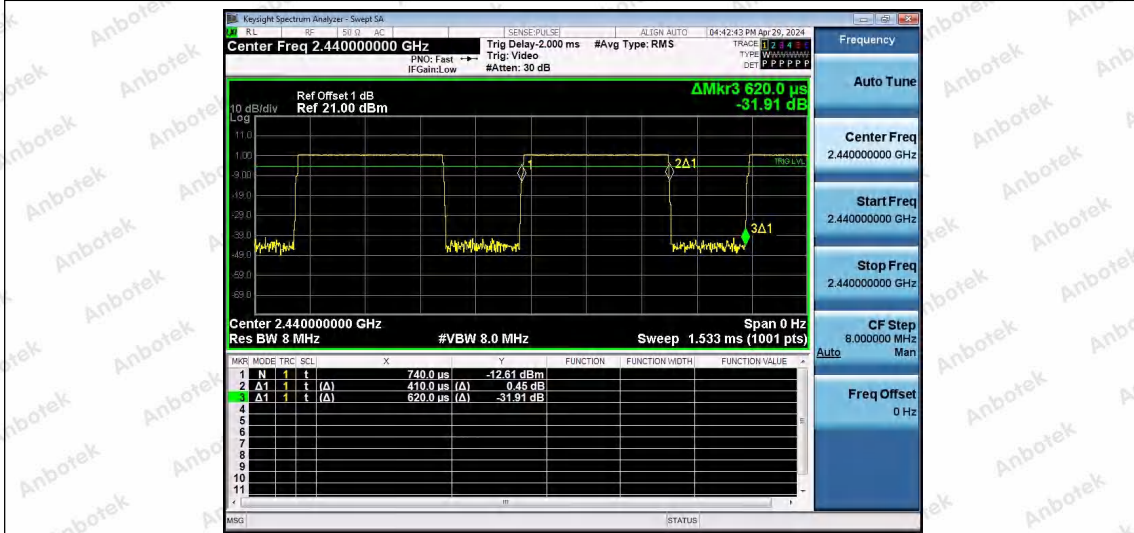
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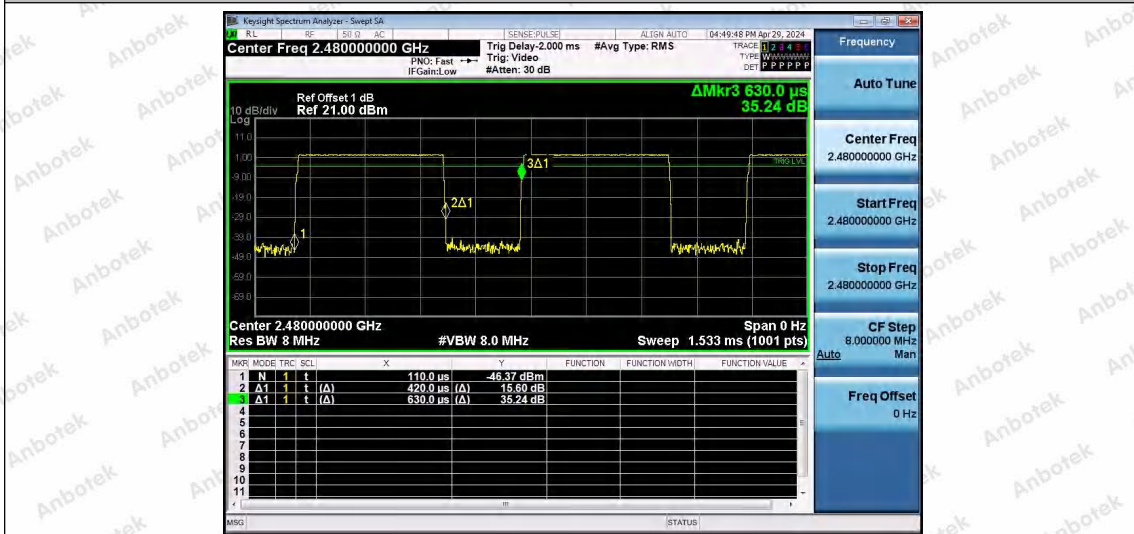
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

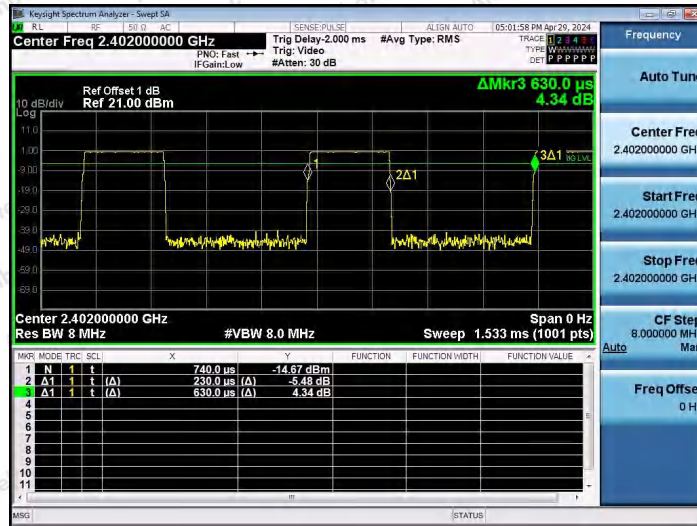
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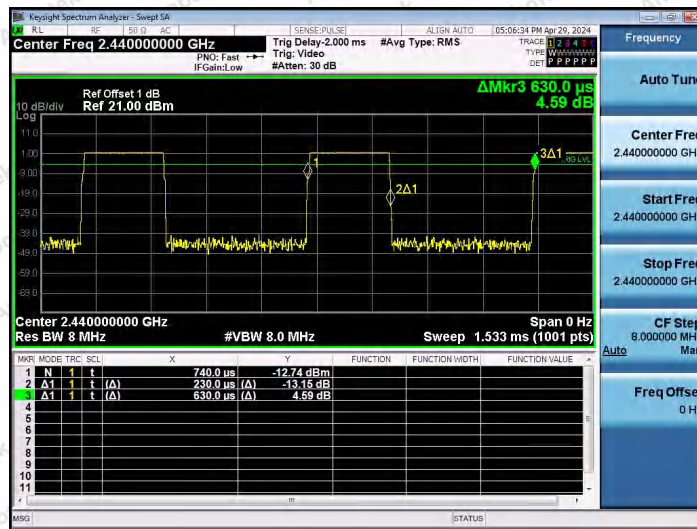
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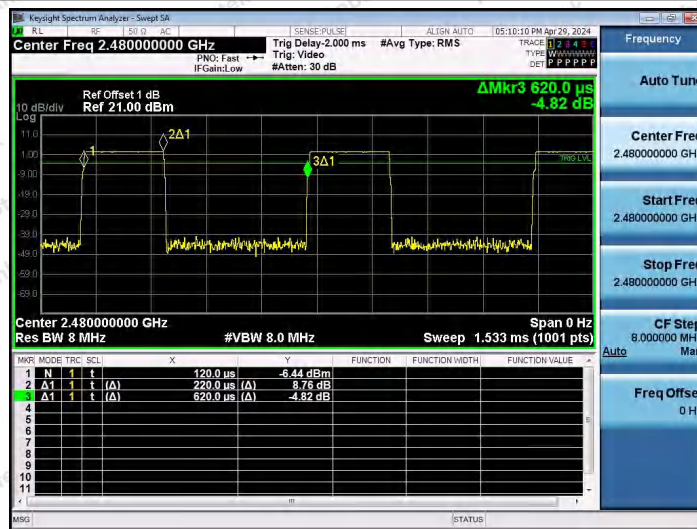




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

---End---

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