

## Appendix Test Data

Report No.:	18220WC30009301	Test Sample No.:	1-2-2
Start Test Date:	2023.2.2	Finish Test Date:	2023.2.6
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	43 %
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.696	2402.340	0.5	PASS
		2440	0.696	2439.676	2440.372	0.5	PASS
		2480	0.660	2479.696	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.184	2401.404	2402.588	0.5	PASS
		2440	1.148	2439.408	2440.556	0.5	PASS
		2480	1.240	2479.396	2480.636	0.5	PASS

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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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### BLE\_2M\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0254	2401.5275	2402.5529
		2440	1.0228	2439.5320	2440.5548
		2480	1.0286	2479.5305	2480.5591
BLE_2M	Ant1	2402	2.0412	2401.0280	2403.0692
		2440	2.0265	2439.0366	2441.0631
		2480	2.0461	2479.0243	2481.0704

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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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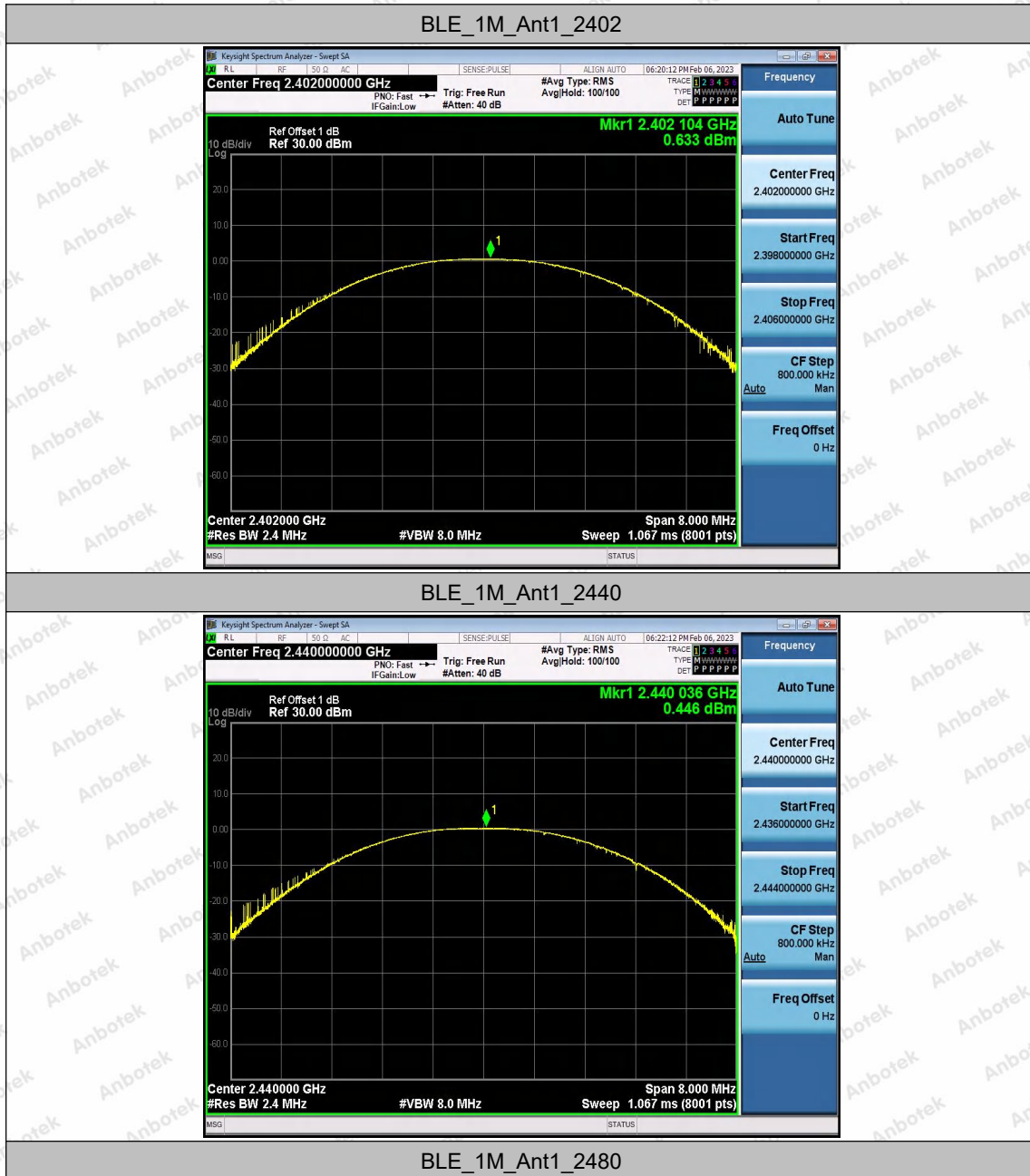
## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.63	≤30	PASS
		2440	0.45	≤30	PASS
		2480	0.19	≤30	PASS
BLE_2M	Ant1	2402	0.6	≤30	PASS
		2440	0.44	≤30	PASS
		2480	0.18	≤30	PASS



## Test Graphs Peak

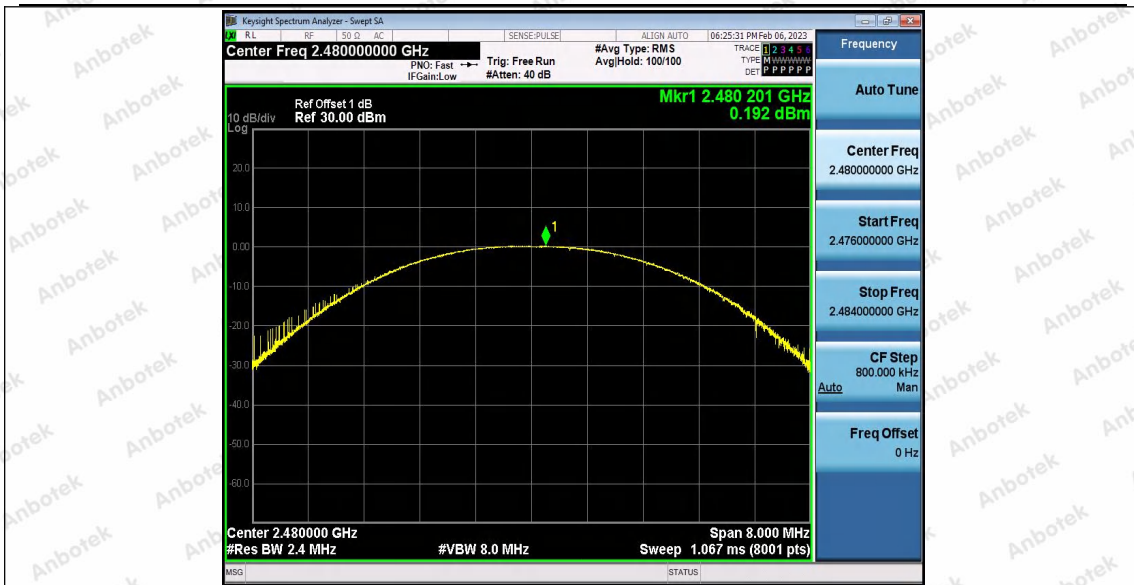


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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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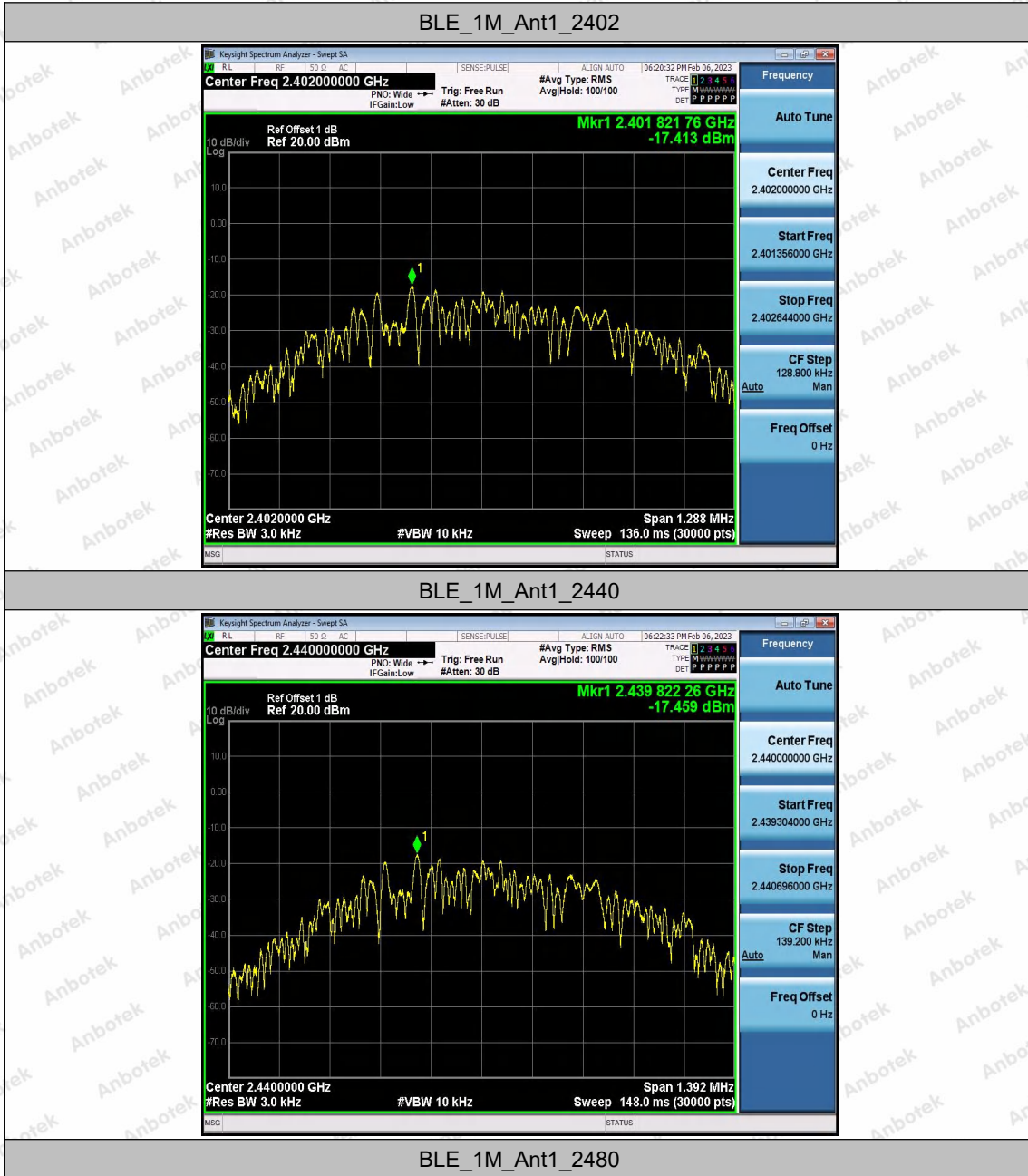
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.41	≤8.00	PASS
		2440	-17.46	≤8.00	PASS
		2480	-17.78	≤8.00	PASS
BLE_2M	Ant1	2402	-22.65	≤8.00	PASS
		2440	-22.74	≤8.00	PASS
		2480	-23.08	≤8.00	PASS



## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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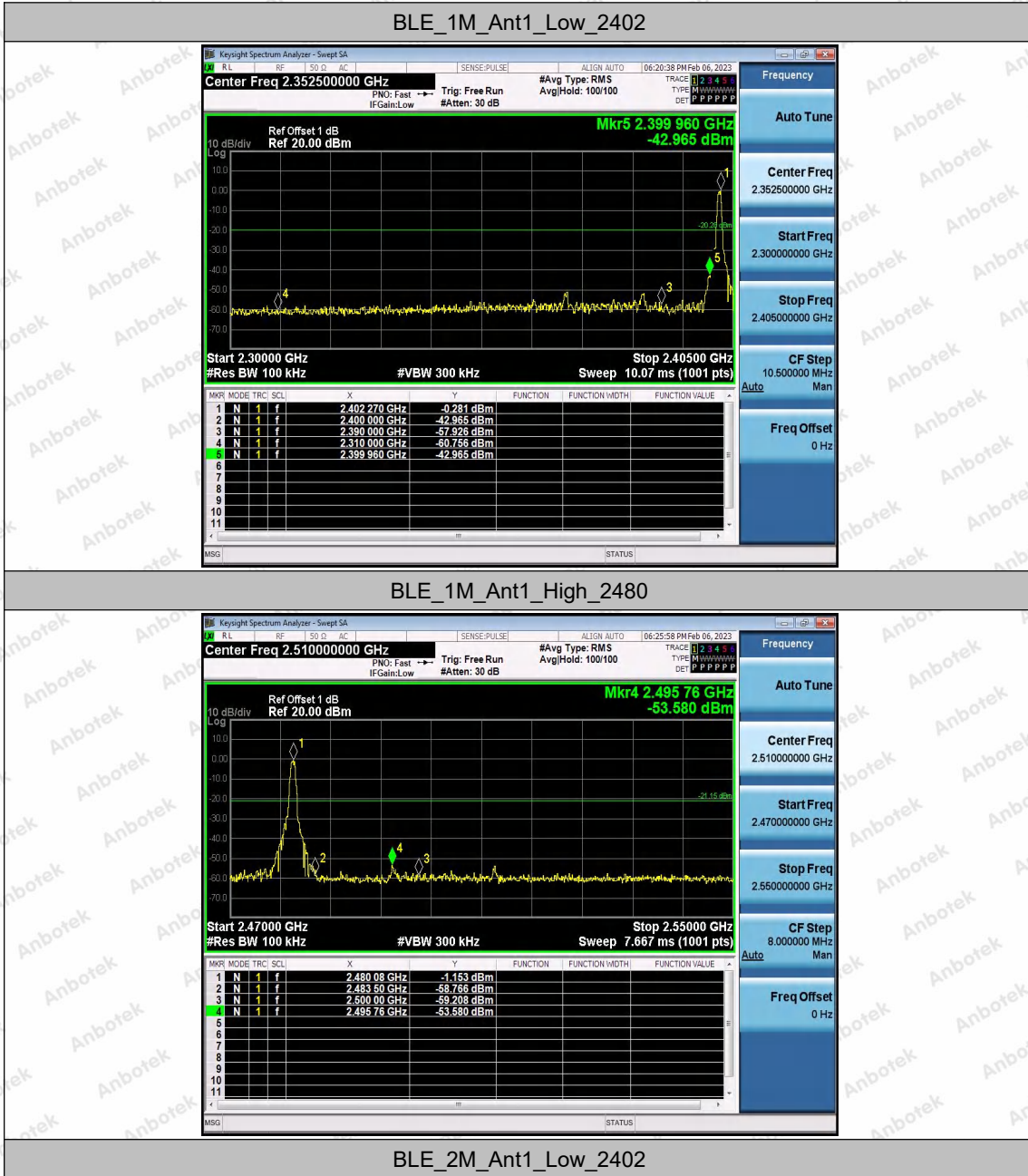
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.28	-42.97	≤-20.28	PASS
		High	2480	-1.15	-53.58	≤-21.15	PASS
BLE_2M	Ant1	Low	2402	-0.90	-38.74	≤-20.9	PASS
		High	2480	-1.39	-52.92	≤-21.39	PASS



## Test Graphs

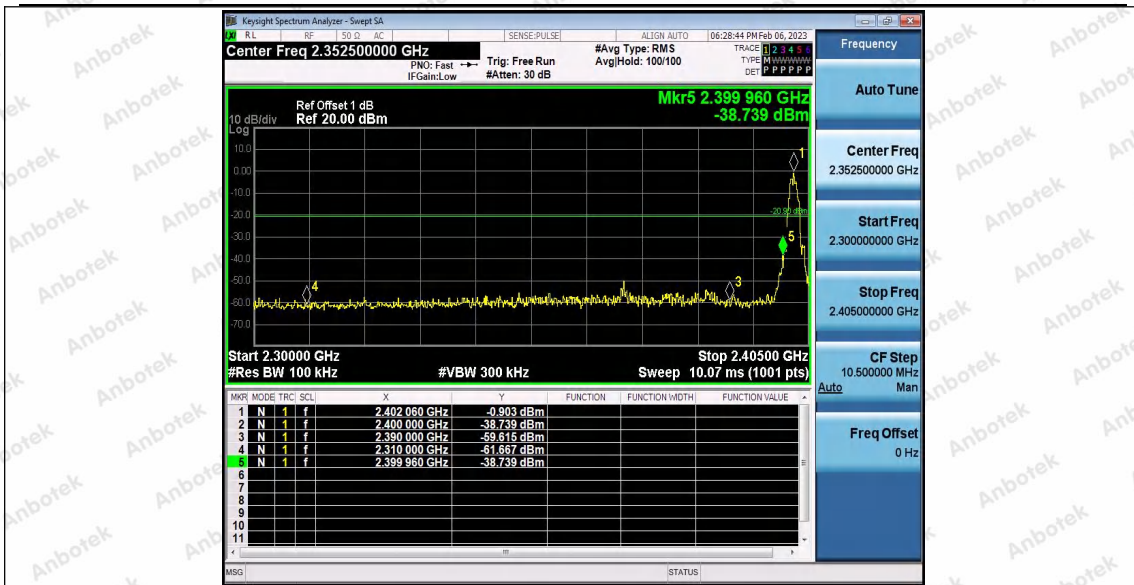


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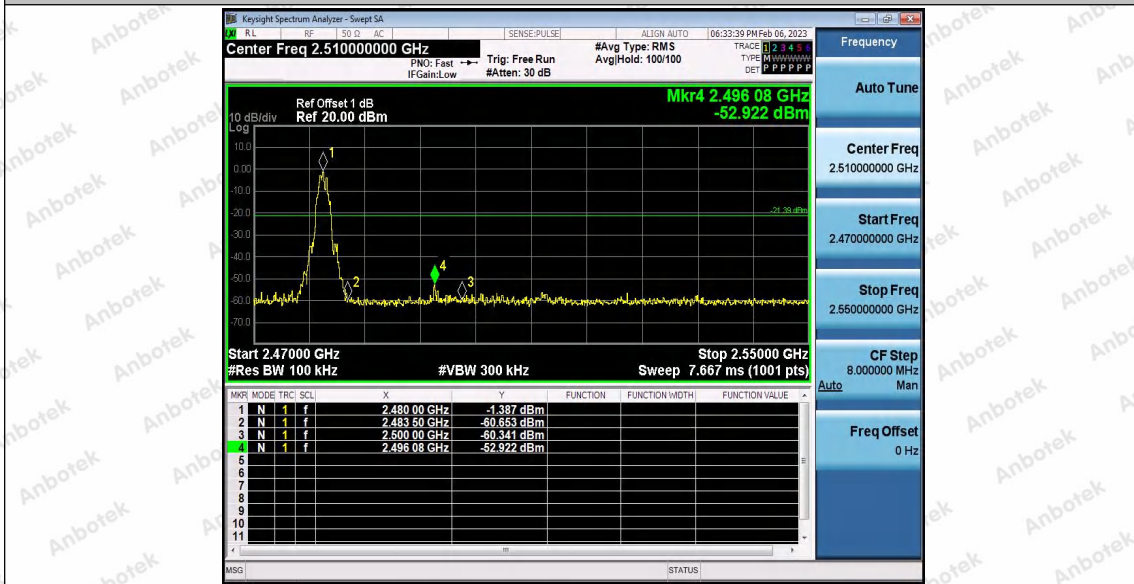
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BLE\_2M\_Ant1\_High\_2480



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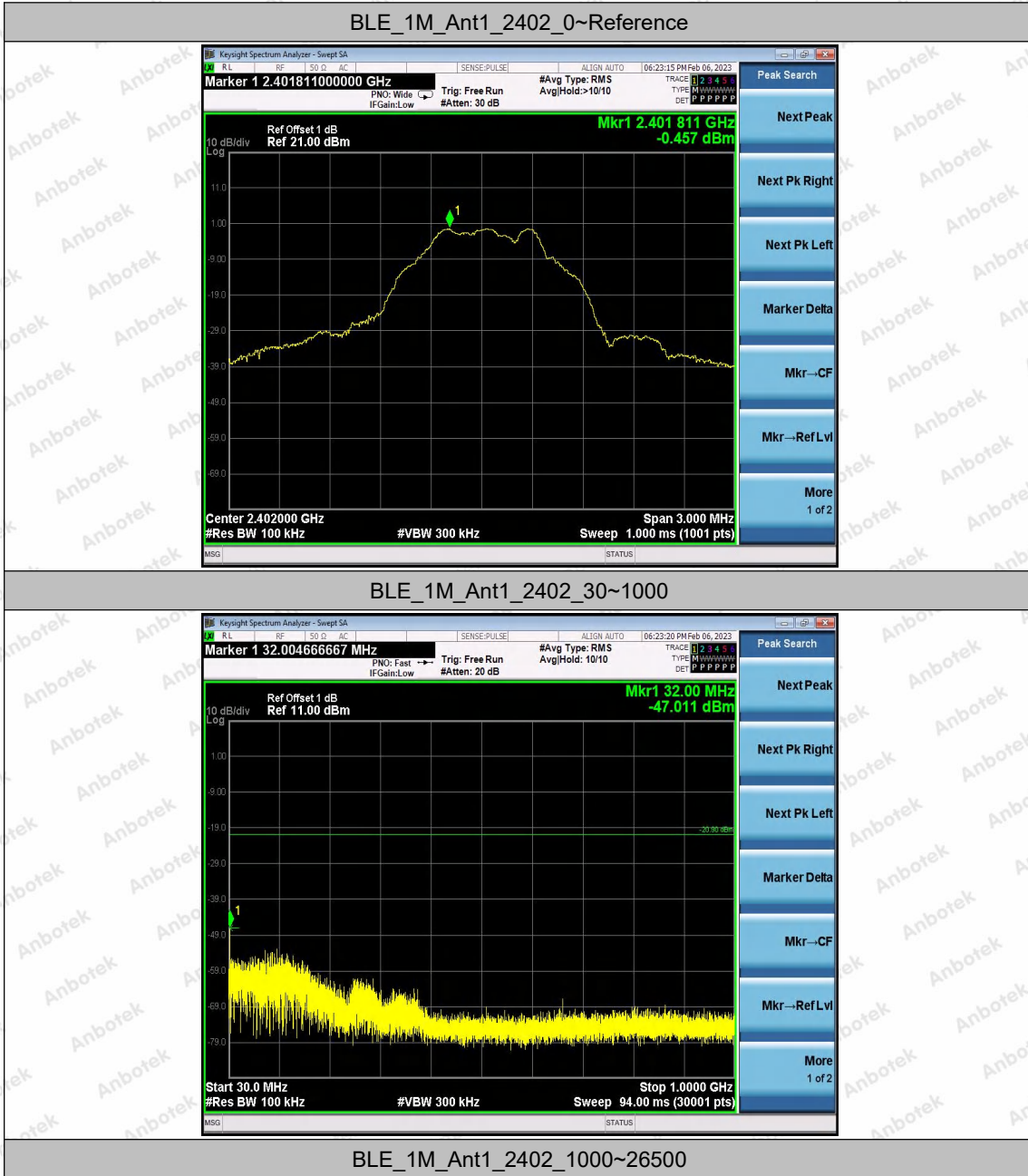
## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-47.01	≤-20.9	PASS
			1000~26500	-0.90	-44.77	≤-20.9	PASS
		2440	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-45.82	≤-20.6	PASS
			1000~26500	-0.60	-44.85	≤-20.6	PASS
		2480	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-45.32	≤-22.92	PASS
			1000~26500	-2.92	-44.3	≤-22.92	PASS
BLE_2M	Ant1	2402	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-47.17	≤-20.49	PASS
			1000~26500	-0.49	-49.37	≤-20.49	PASS
		2440	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-46.55	≤-20.68	PASS
			1000~26500	-0.68	-44.09	≤-20.68	PASS
		2480	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-46.53	≤-20.81	PASS
			1000~26500	-0.81	-45.68	≤-20.81	PASS



## Test Graphs

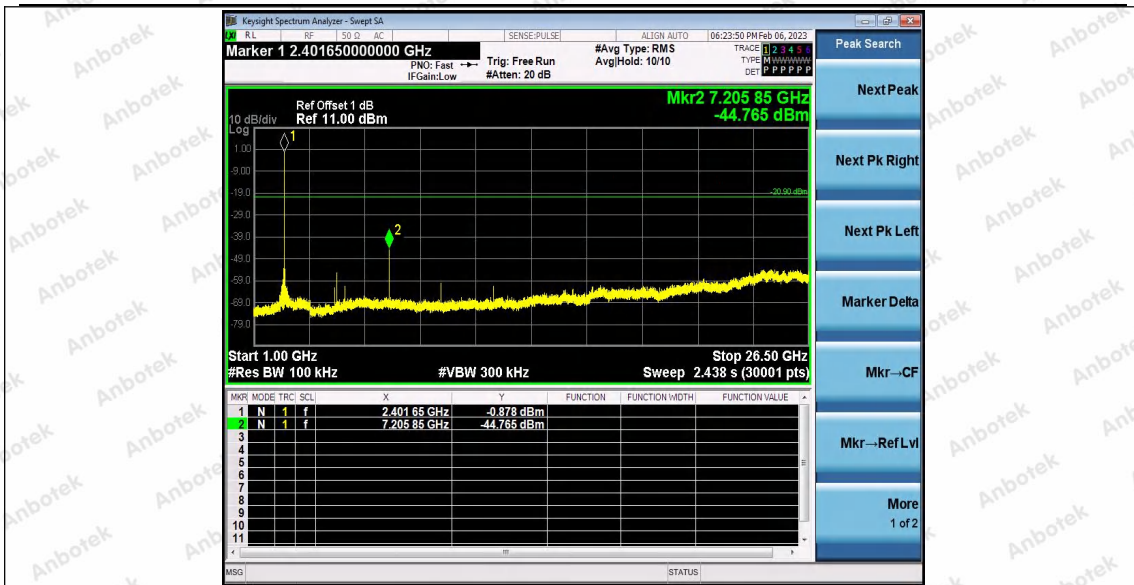


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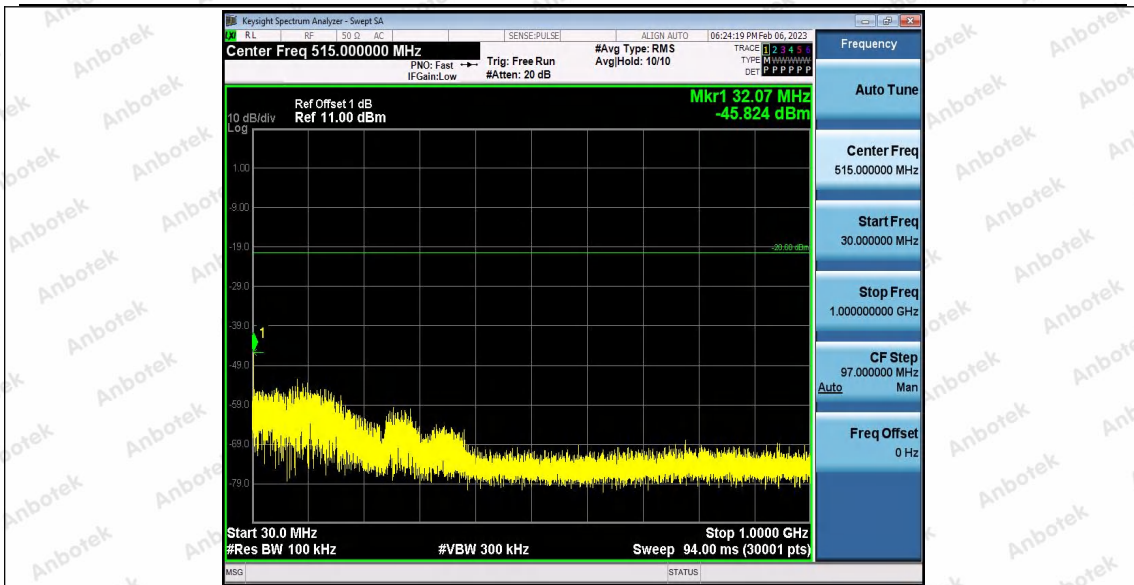


BLE\_1M\_Ant1\_2440\_0~Reference

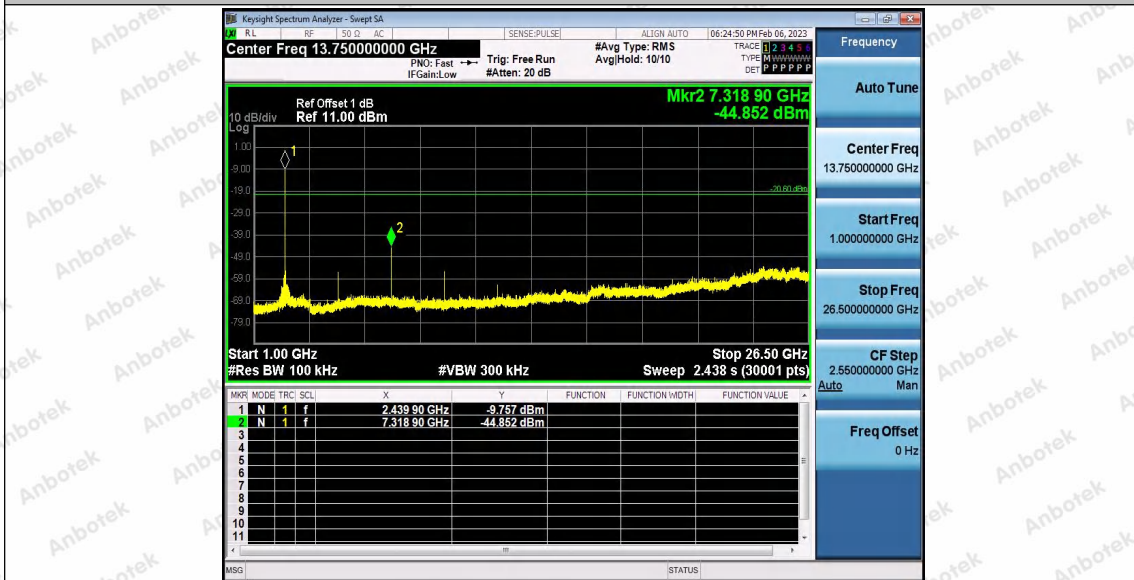


BLE\_1M\_Ant1\_2440\_30~1000





BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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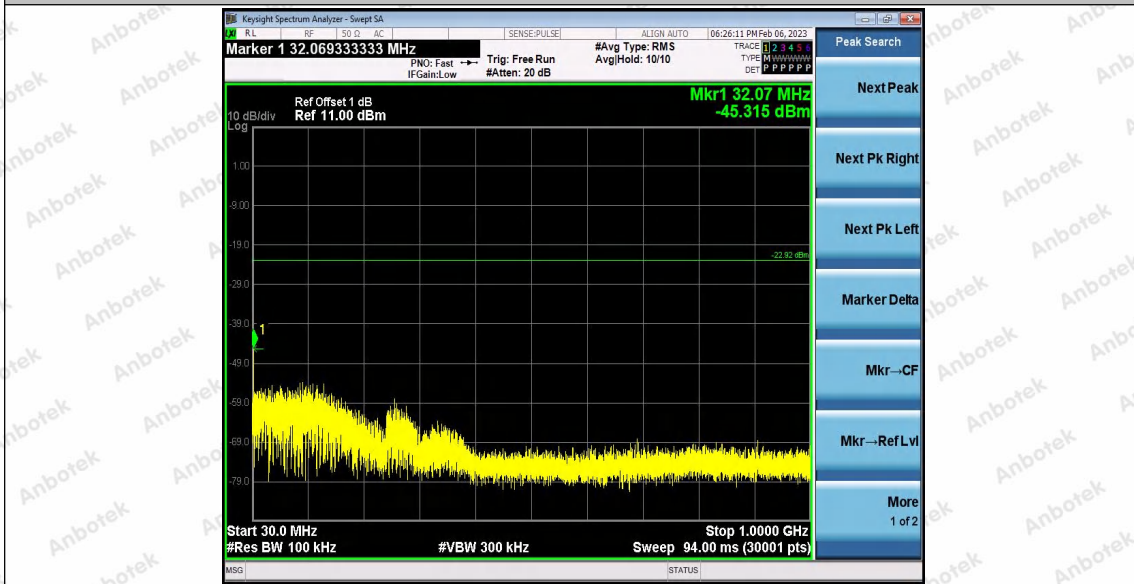
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

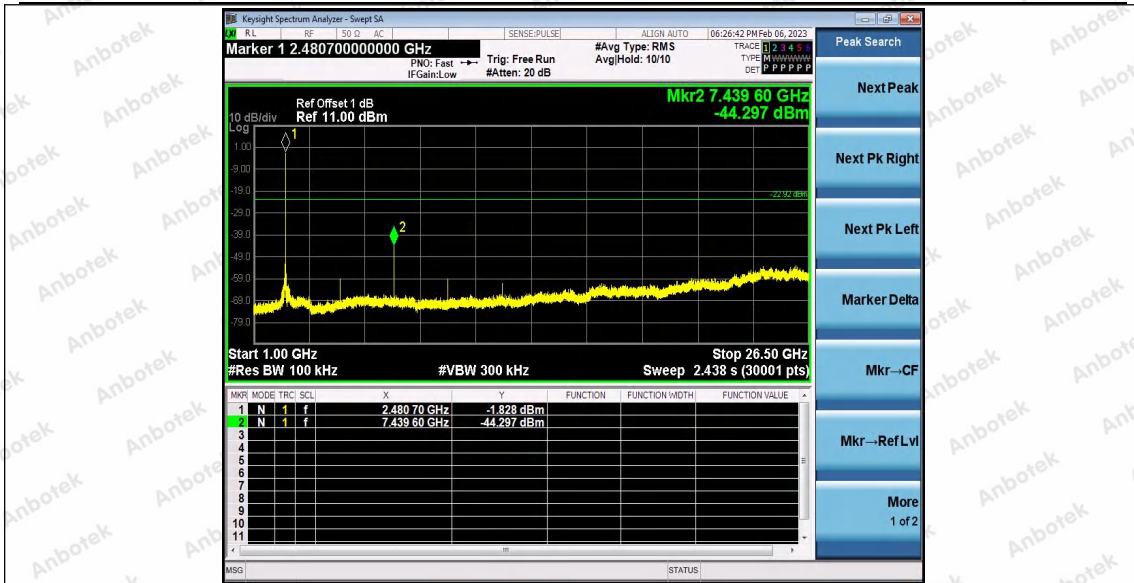
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BLE\_2M\_Ant1\_2402\_0~Reference



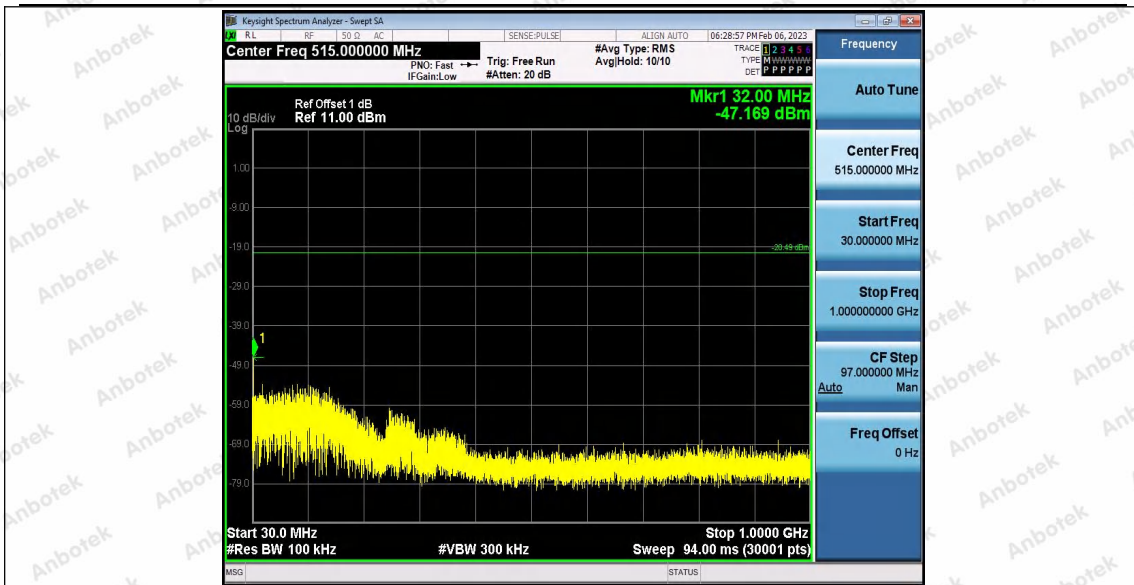
BLE\_2M\_Ant1\_2402\_30~1000

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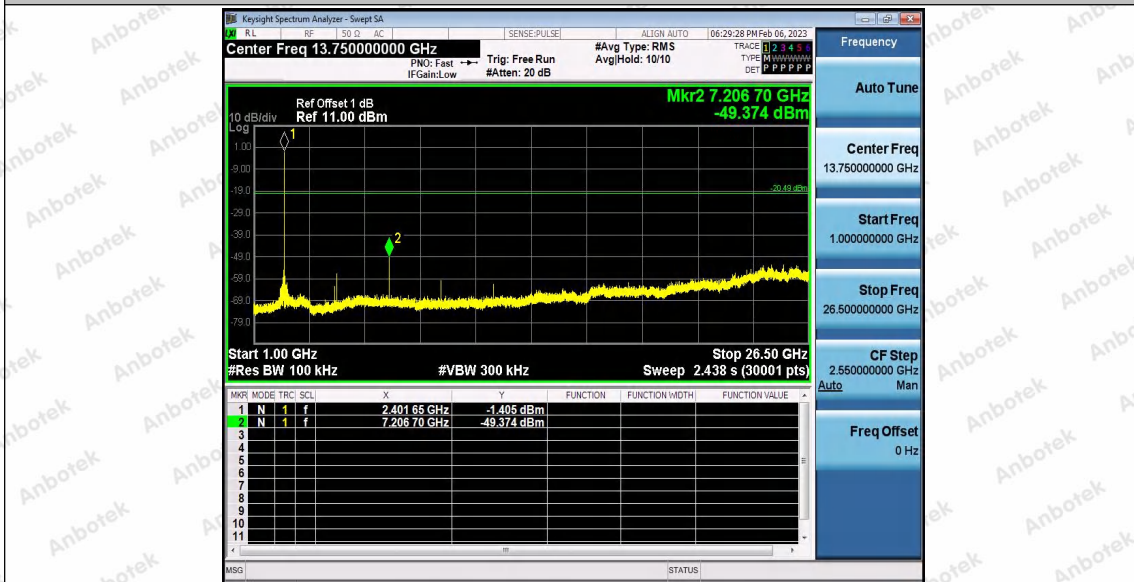
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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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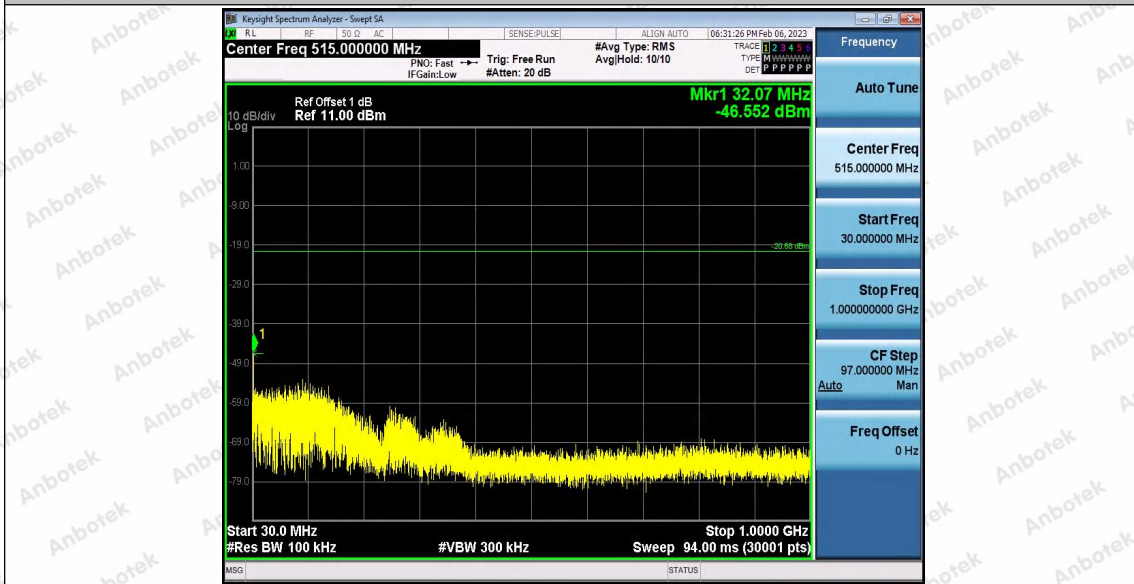
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BLE\_2M\_Ant1\_2440\_30~1000



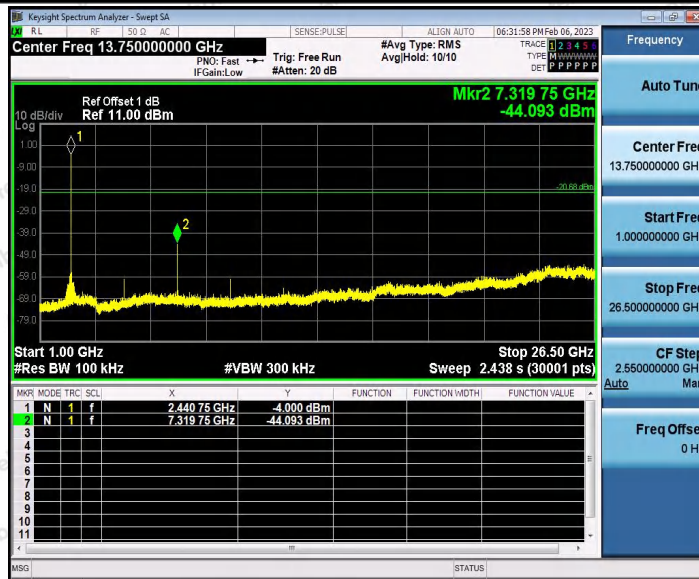
BLE\_2M\_Ant1\_2440\_1000~26500

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BLE\_2M\_Ant1\_2480\_0~Reference



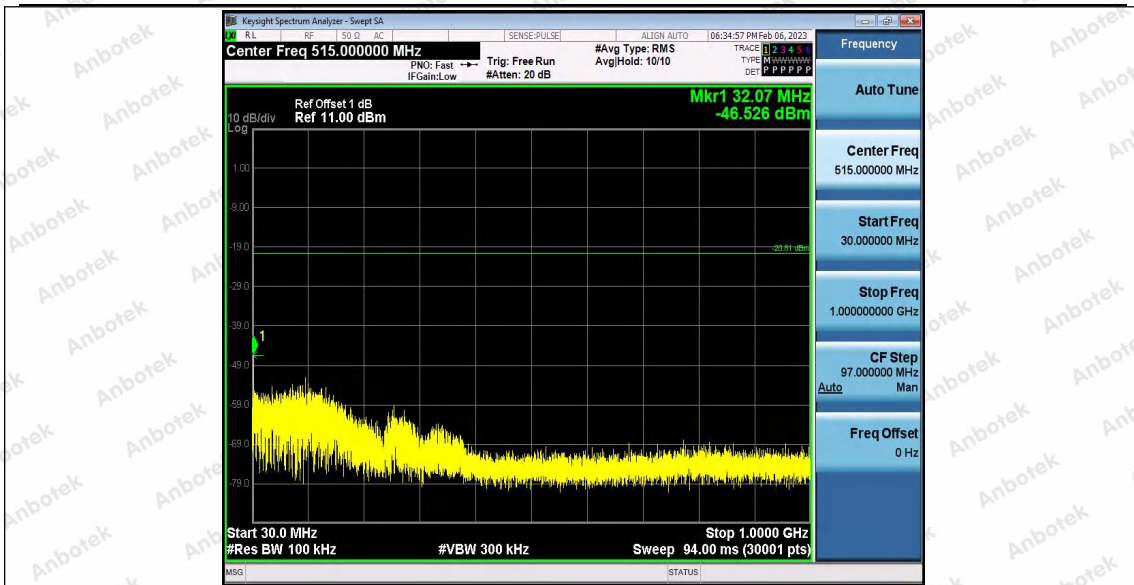
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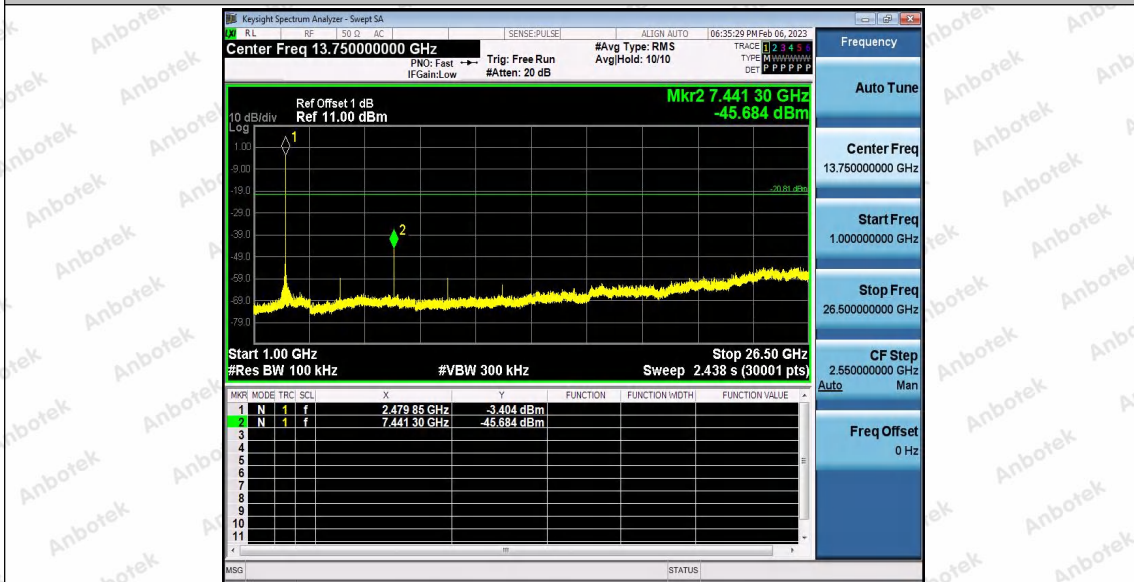
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## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.10	0.61	16.39	7.85
		2440	0.10	0.61	16.39	7.85
		2480	0.10	0.61	16.39	7.85
BLE_2M	Ant1	2402	0.06	0.62	9.68	10.14
		2440	0.06	0.61	9.84	10.07
		2480	0.06	0.61	9.84	10.07

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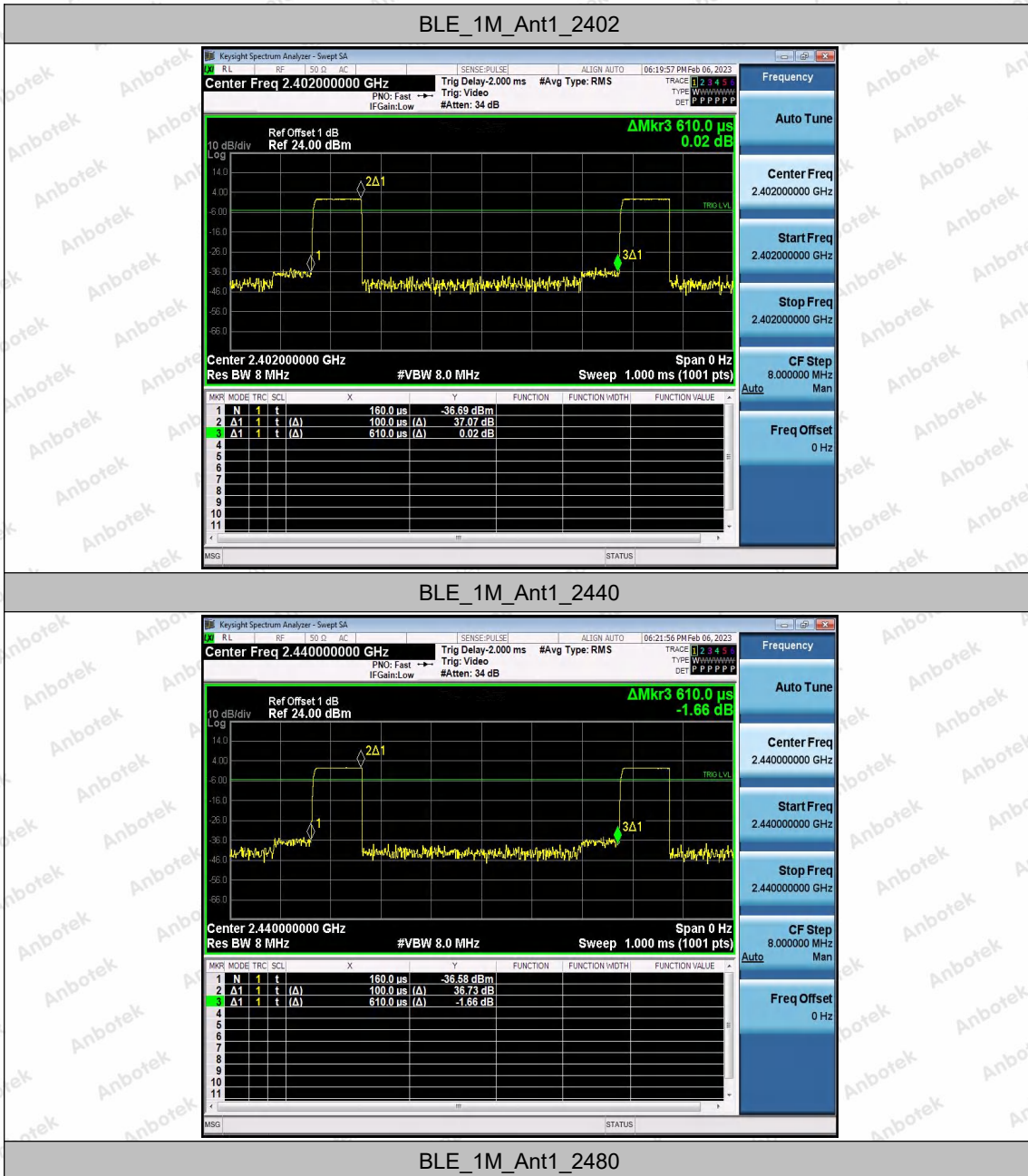
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## Test Graphs

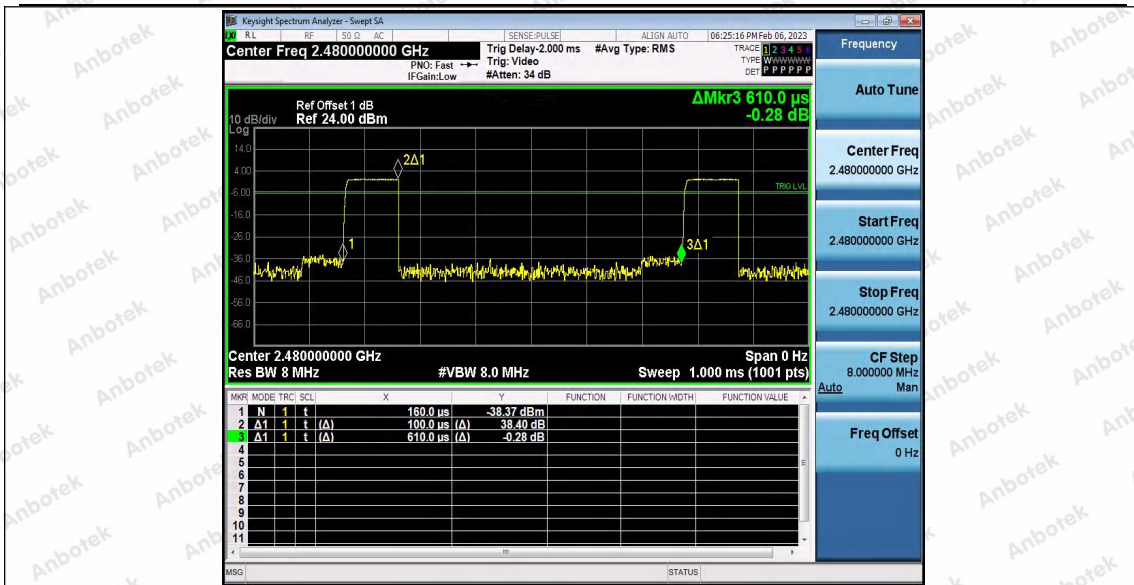


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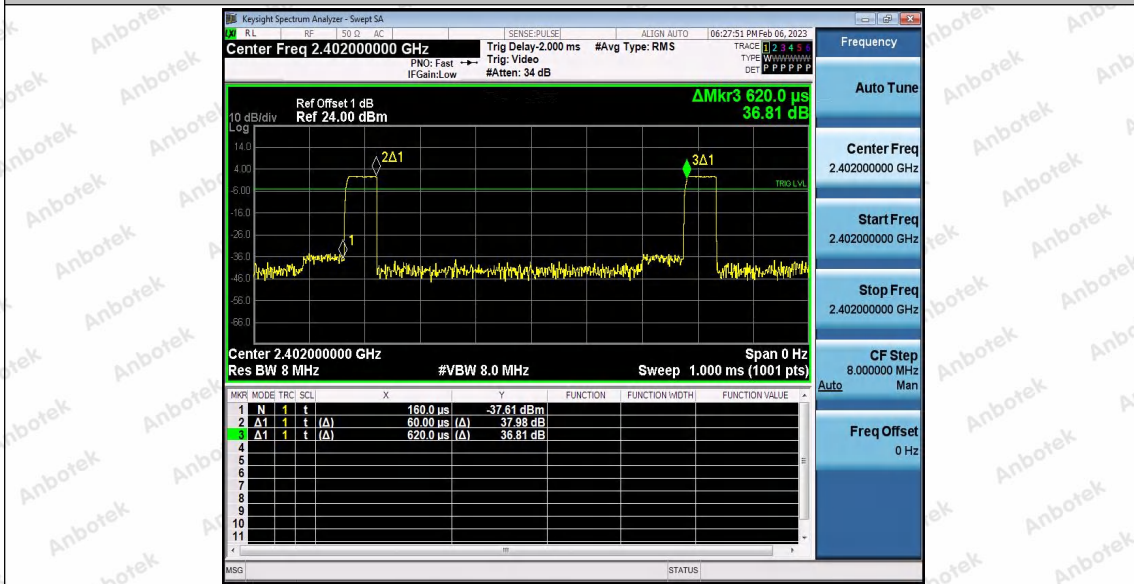
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

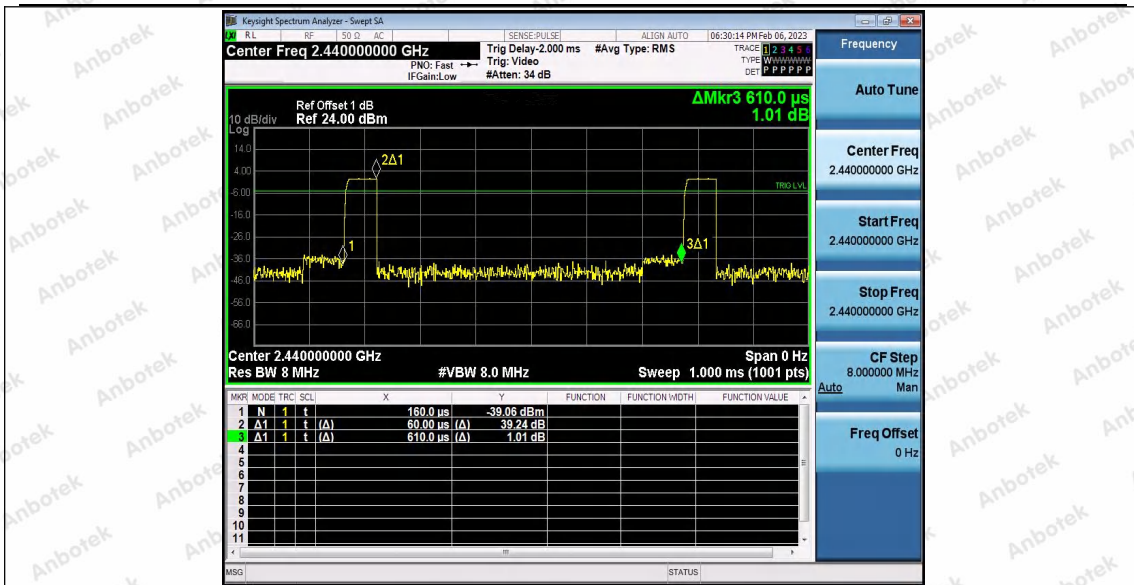
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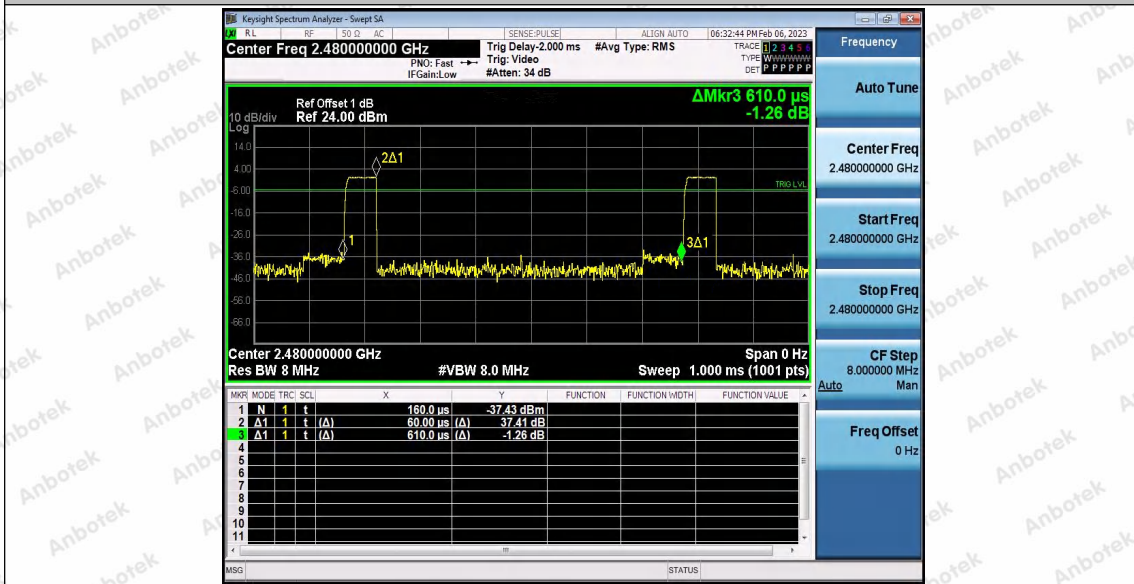
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### BLE\_2M\_Ant1\_2480



---End---

