

## Appendix Test Data

Report No.:	18220WC20226901	Test Sample No.:	1-2-2
Start Test Date:	2022.9.22	Finish Test Date:	2022.9.24
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
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	0.720	2401.640	2402.360	0.5	PASS
		2440	0.700	2439.644	2440.344	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.020	2401.484	2402.504	0.5	PASS
		2440	1.016	2439.496	2440.512	0.5	PASS
		2480	1.004	2479.496	2480.500	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	1.1025	2401.4459	2402.5484
		2440	1.0831	2439.4609	2440.5440
		2480	1.1068	2479.4425	2480.5493
BLE_2M	Ant1	2402	2.1799	2400.9192	2403.0991
		2440	2.2053	2438.8993	2441.1046
		2480	2.2406	2478.8945	2481.1351

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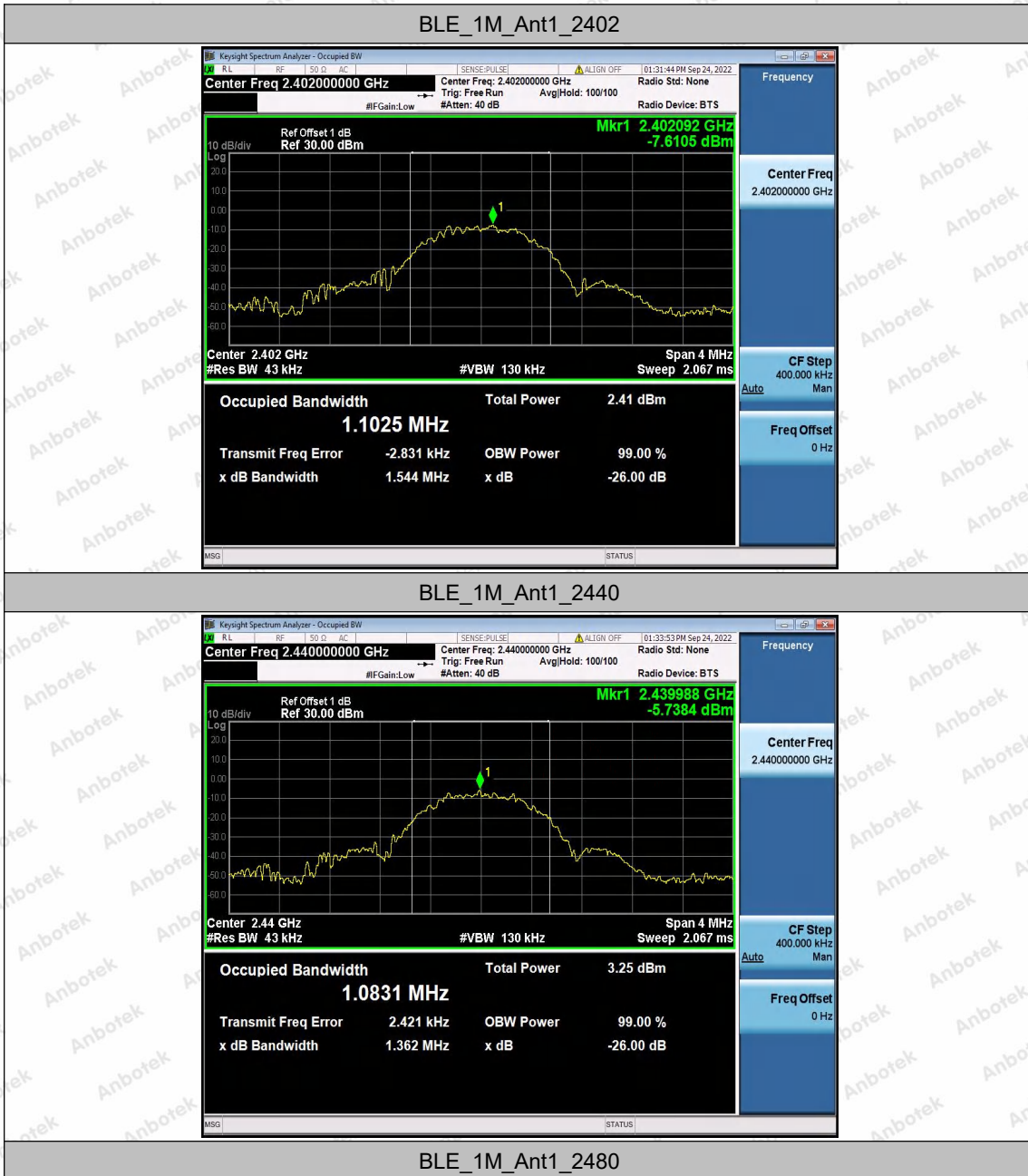
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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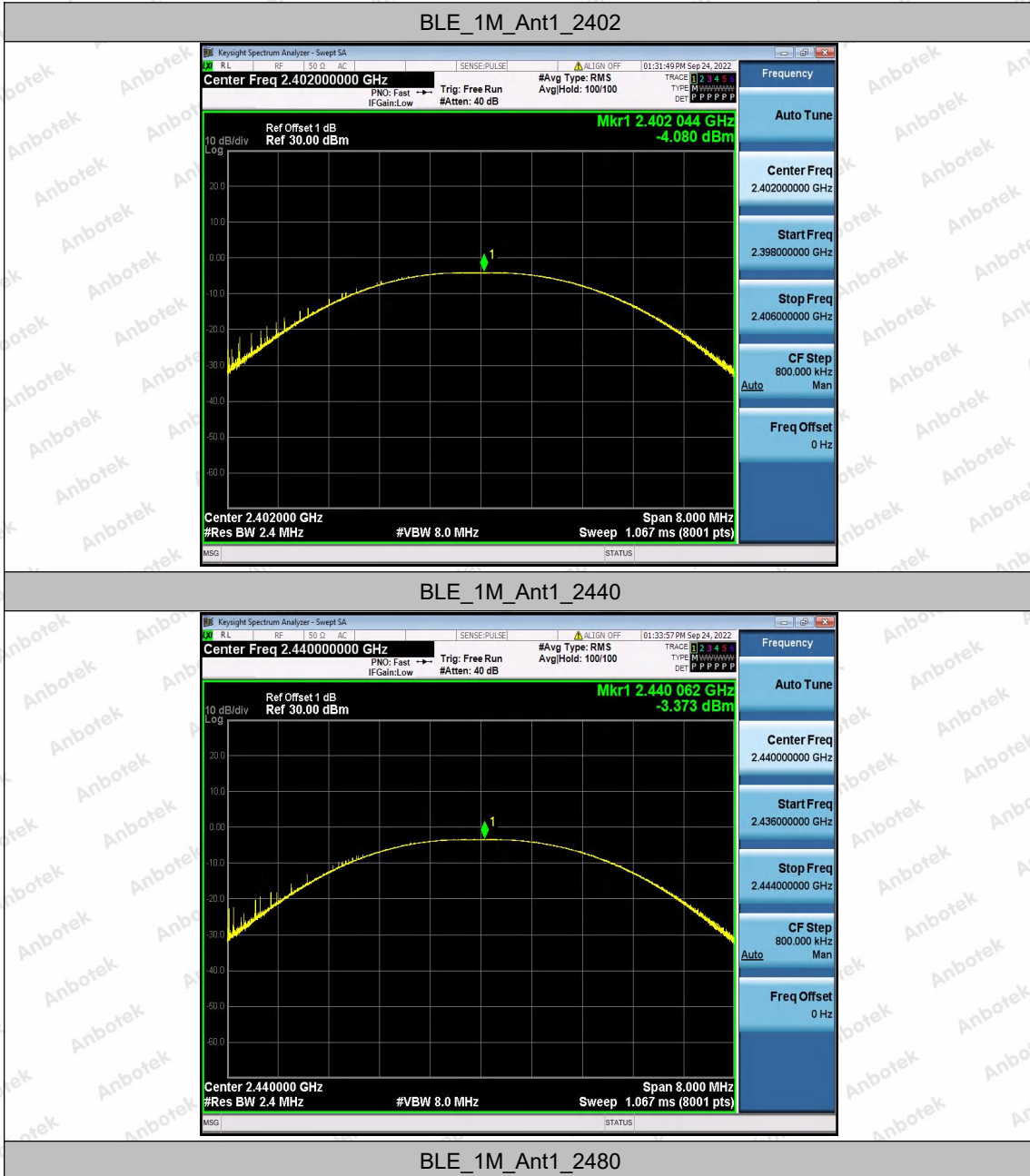
## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.08	≤30	PASS
		2440	-3.37	≤30	PASS
		2480	-2.42	≤30	PASS
BLE_2M	Ant1	2402	-4.07	≤30	PASS
		2440	-3.36	≤30	PASS
		2480	-2.39	≤30	PASS



## Test Graphs Peak

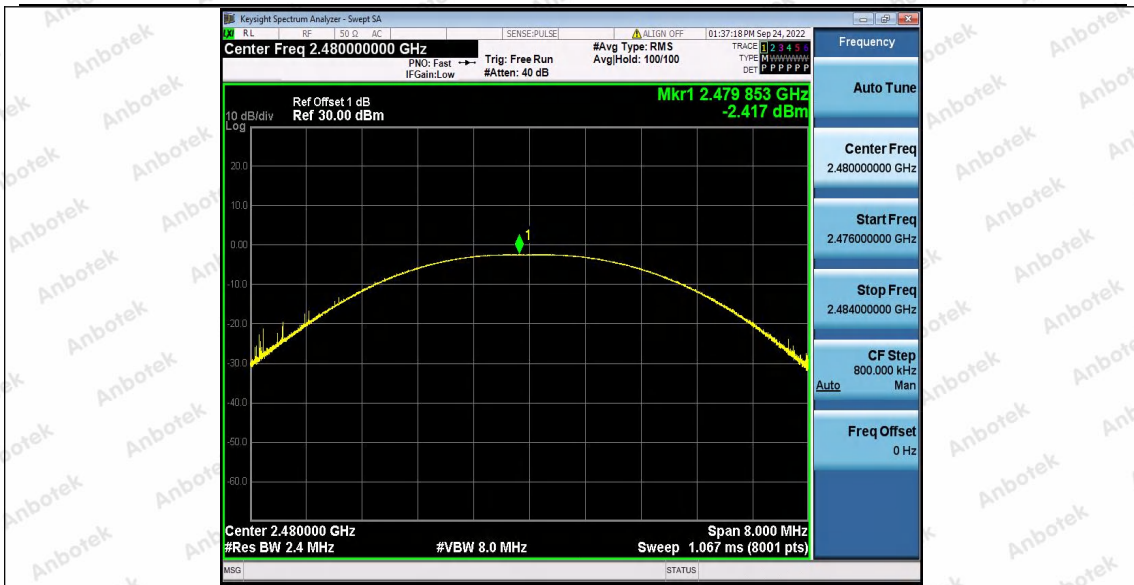


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BLE\_2M\_Ant1\_2402



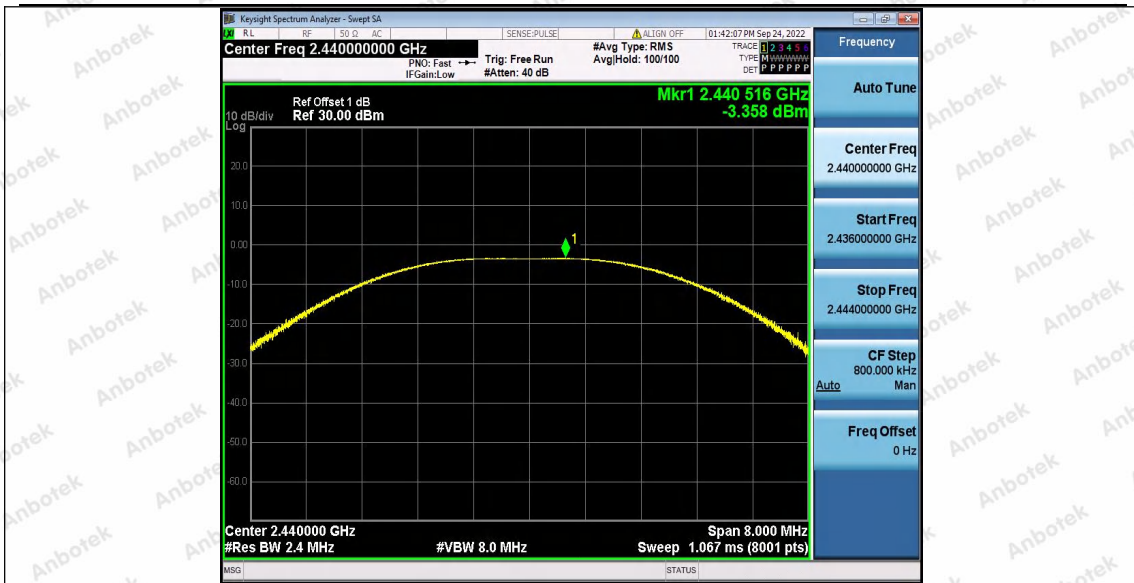
BLE\_2M\_Ant1\_2440

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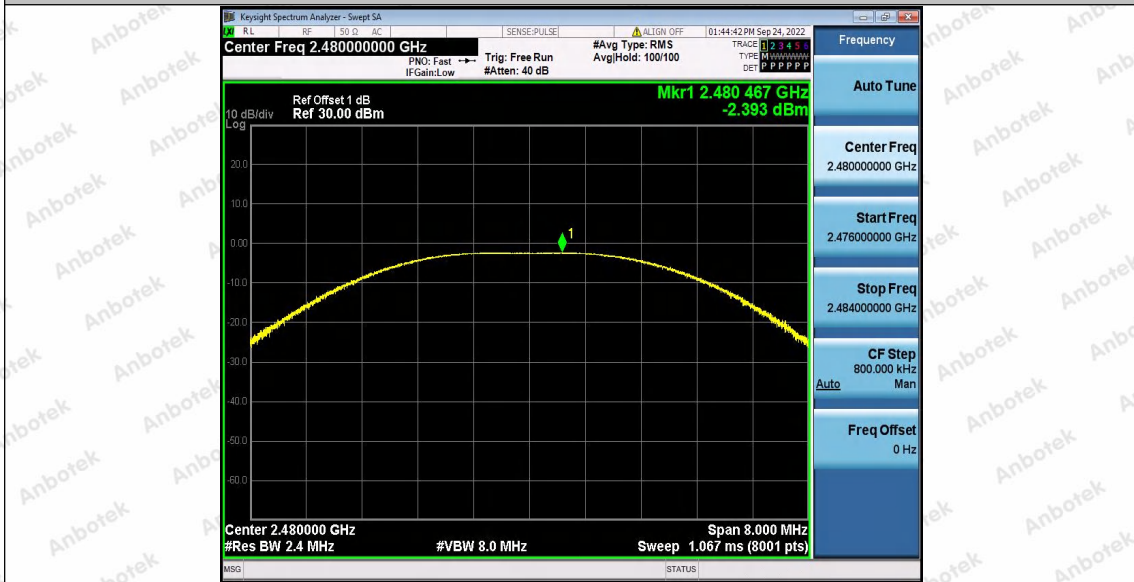
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BLE\_2M\_Ant1\_2480



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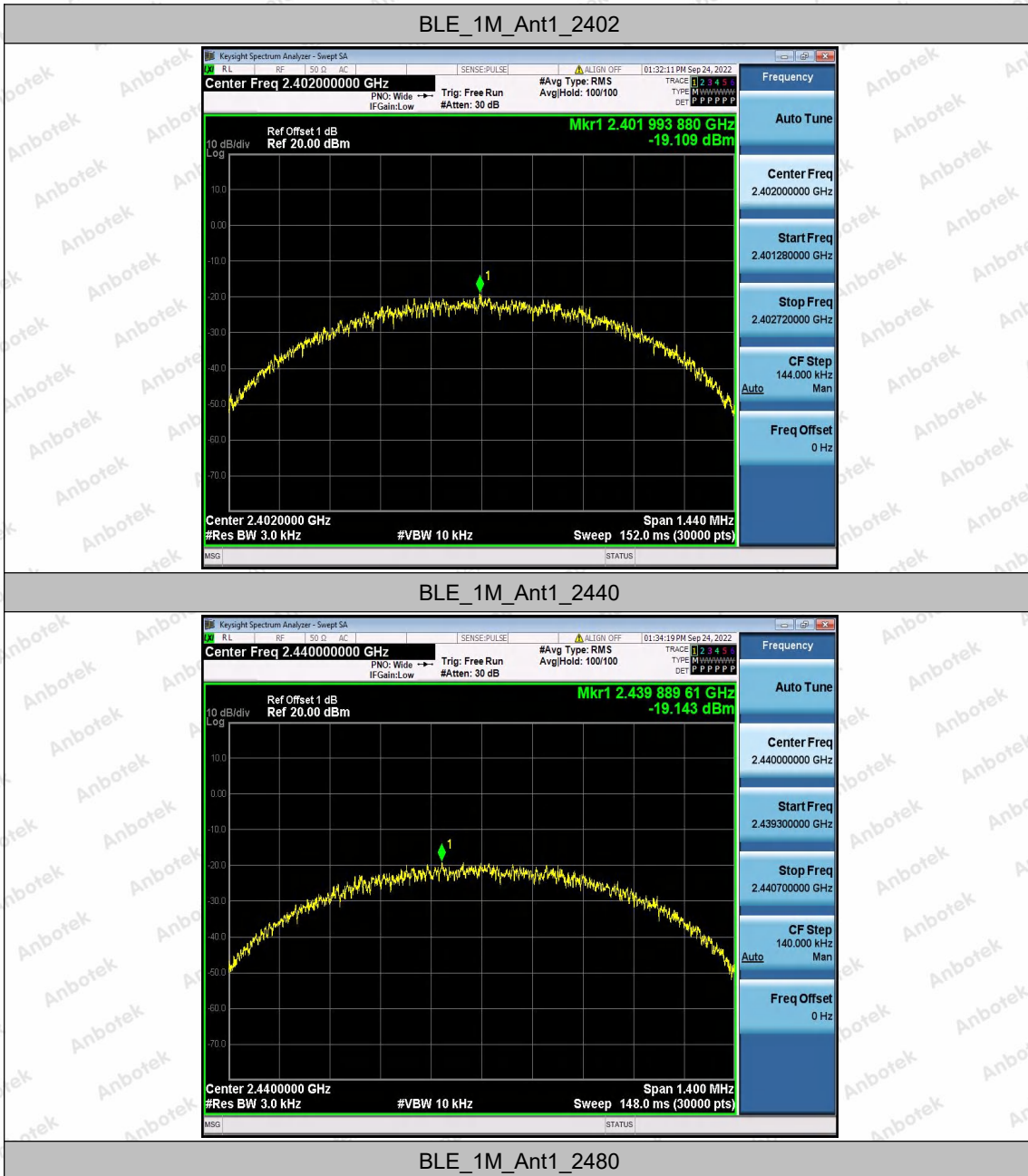
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.11	≤8.00	PASS
		2440	-19.14	≤8.00	PASS
		2480	-17.3	≤8.00	PASS
BLE_2M	Ant1	2402	-20.29	≤8.00	PASS
		2440	-19.19	≤8.00	PASS
		2480	-17.98	≤8.00	PASS



## Test Graphs



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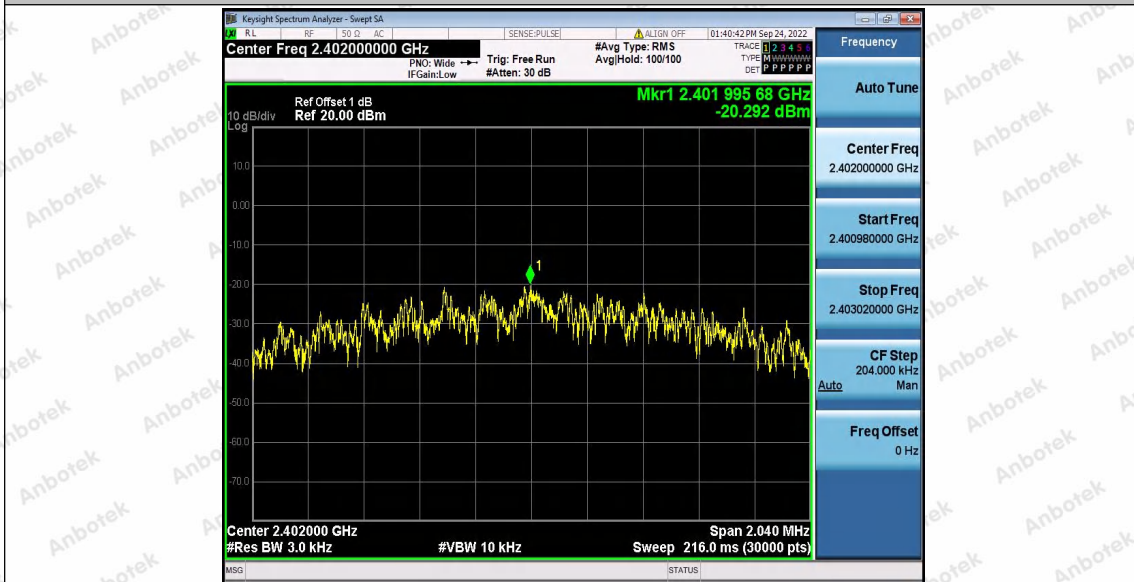
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BLE\_2M\_Ant1\_2402



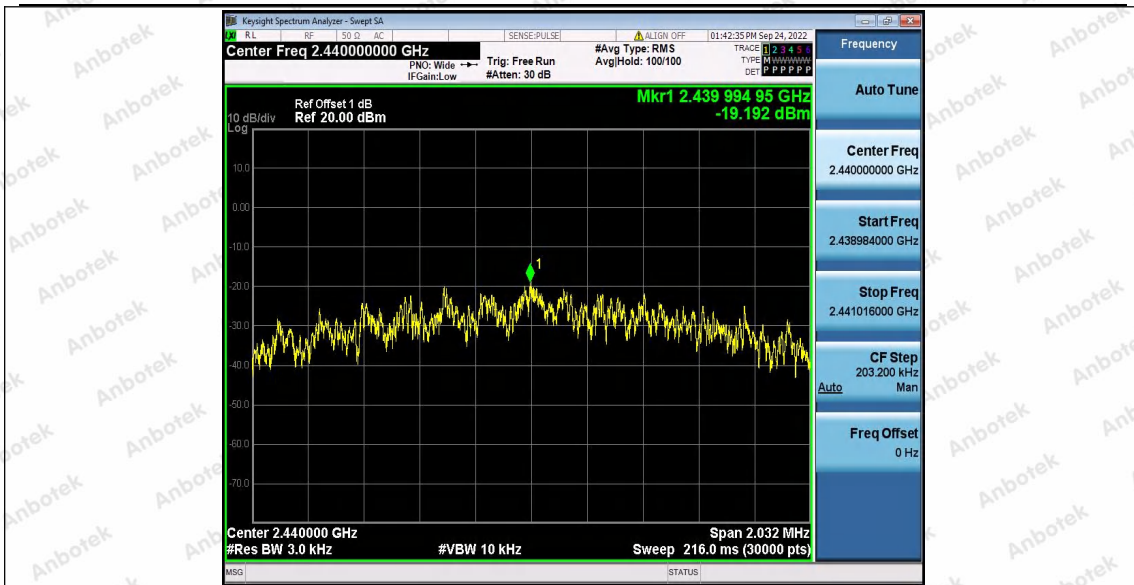
BLE\_2M\_Ant1\_2440

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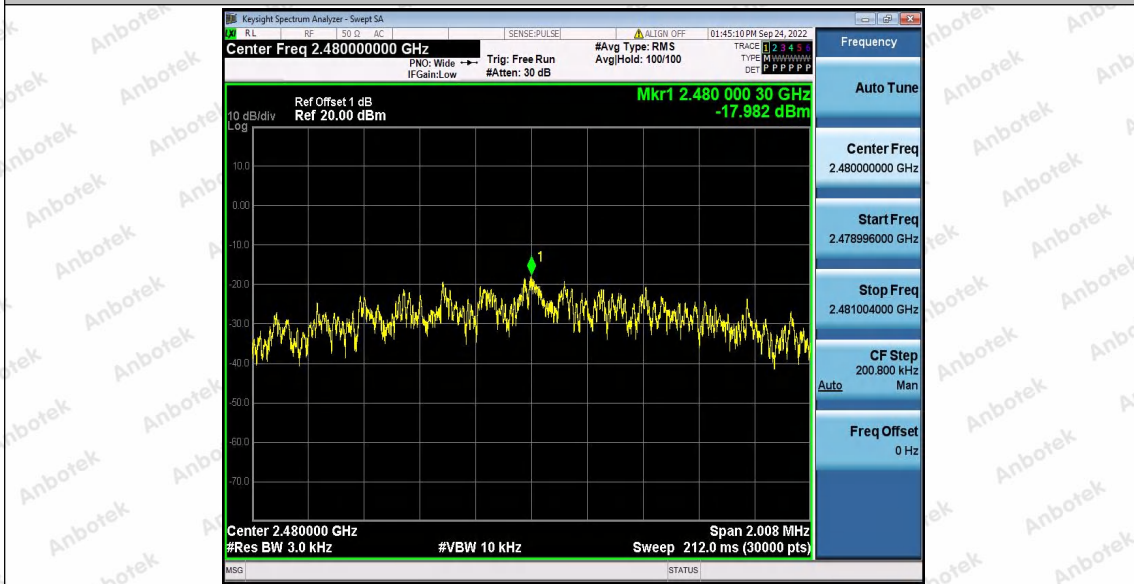
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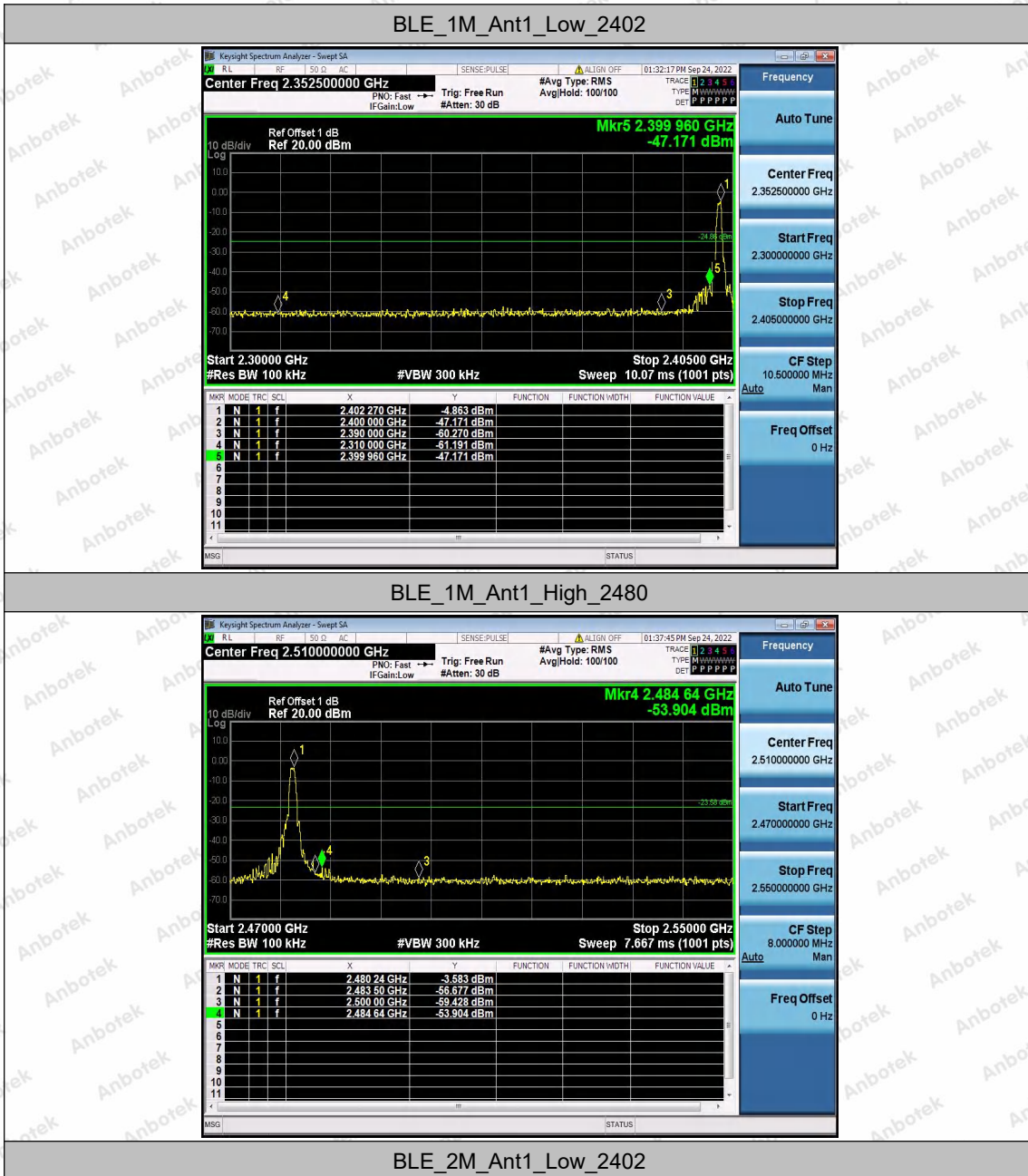
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.86	-47.17	≤-24.86	PASS
		High	2480	-3.58	-53.9	≤-23.58	PASS
BLE_2M	Ant1	Low	2402	-4.66	-36.56	≤-24.66	PASS
		High	2480	-3.05	-53.56	≤-23.05	PASS



## Test Graphs

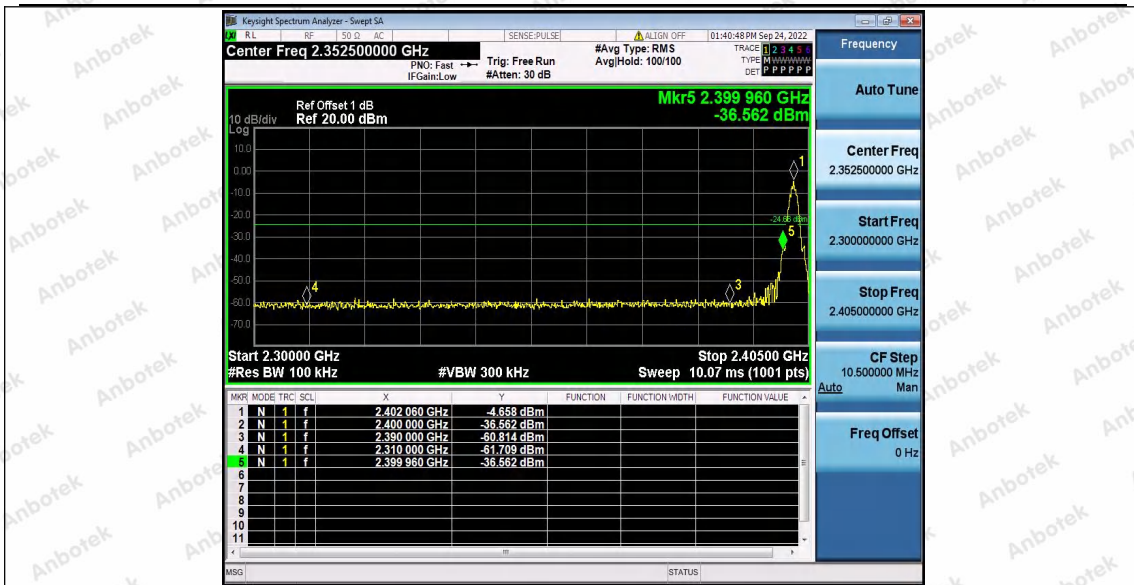


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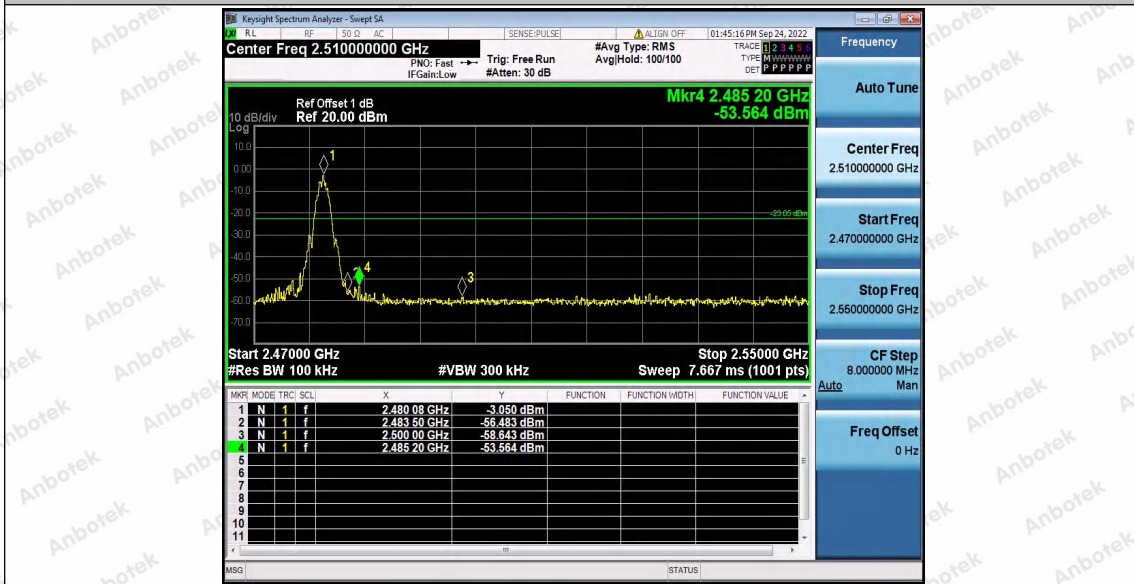
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BLE\_2M\_Ant1\_High\_2480



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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	-5.19	-5.19	---	PASS
			30~1000	-5.19	-62.73	≤-35.19	PASS
			1000~26500	-5.19	-38.74	≤-35.19	PASS
		2440	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-61.89	≤-33.76	PASS
			1000~26500	-3.76	-34.86	≤-33.76	PASS
		2480	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-62.71	≤-33.96	PASS
			1000~26500	-3.96	-34.03	≤-33.96	PASS
BLE_2M	Ant1	2402	Reference	-8.32	-8.32	---	PASS
			30~1000	-8.32	-61.83	≤-38.32	PASS
			1000~26500	-8.32	-40.32	≤-38.32	PASS
		2440	Reference	-6.97	-6.97	---	PASS
			30~1000	-6.97	-61.55	≤-36.97	PASS
			1000~26500	-6.97	-39.27	≤-36.97	PASS
		2480	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-62.64	≤-35.72	PASS
			1000~26500	-5.72	-37.92	≤-35.72	PASS



## Test Graphs

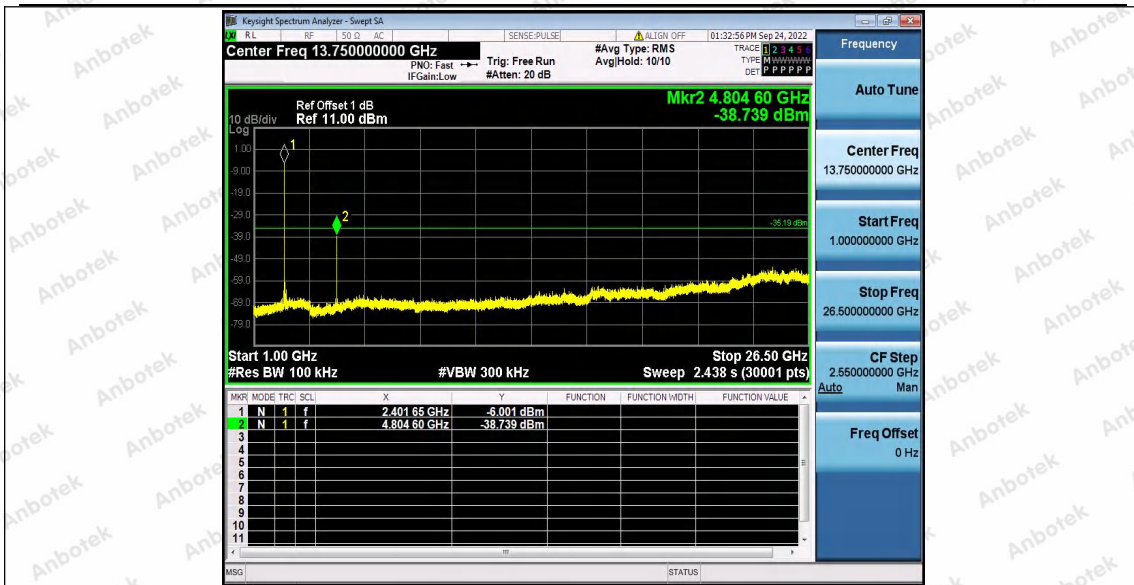


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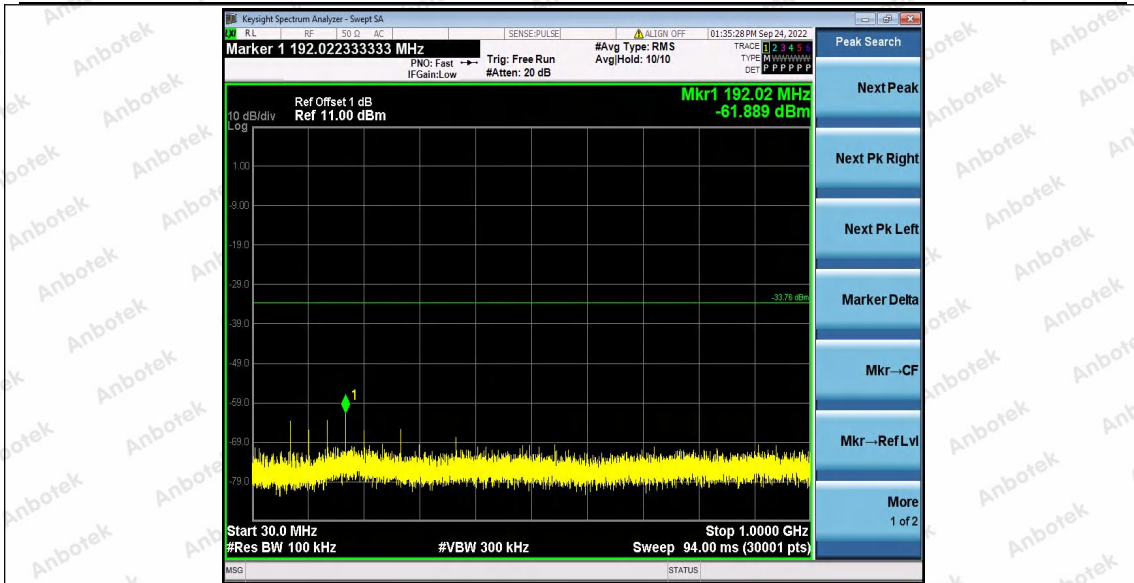


BLE\_1M\_Ant1\_2440\_0~Reference

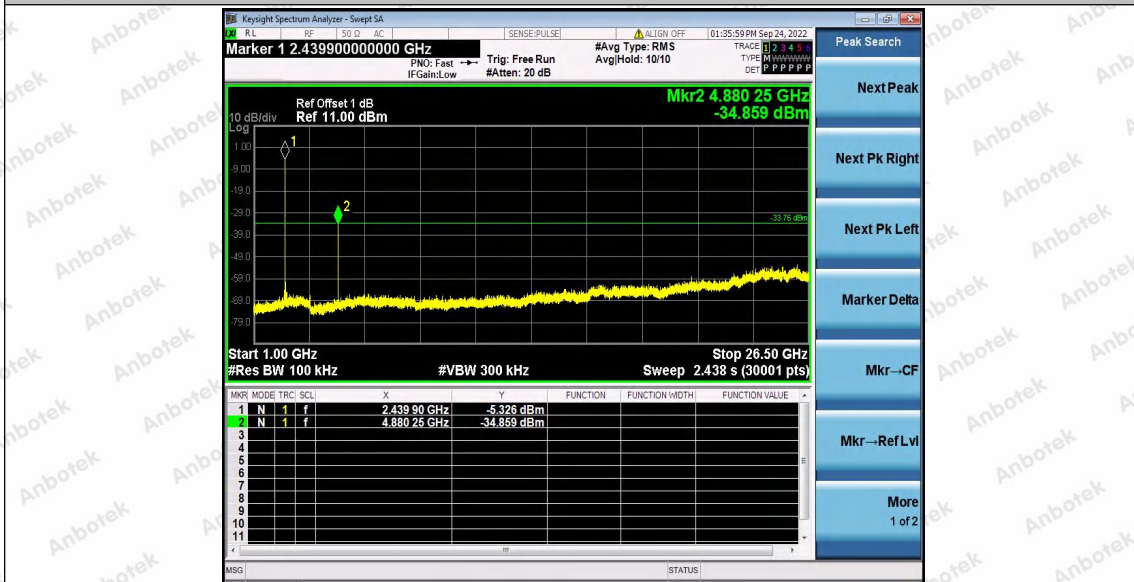


BLE\_1M\_Ant1\_2440\_30~1000





BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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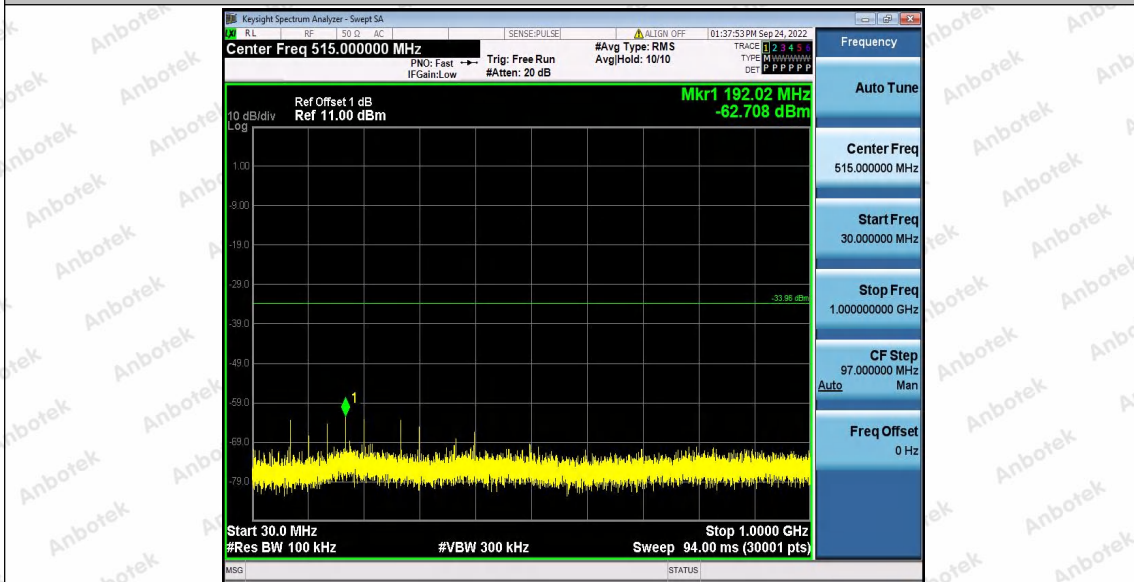
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

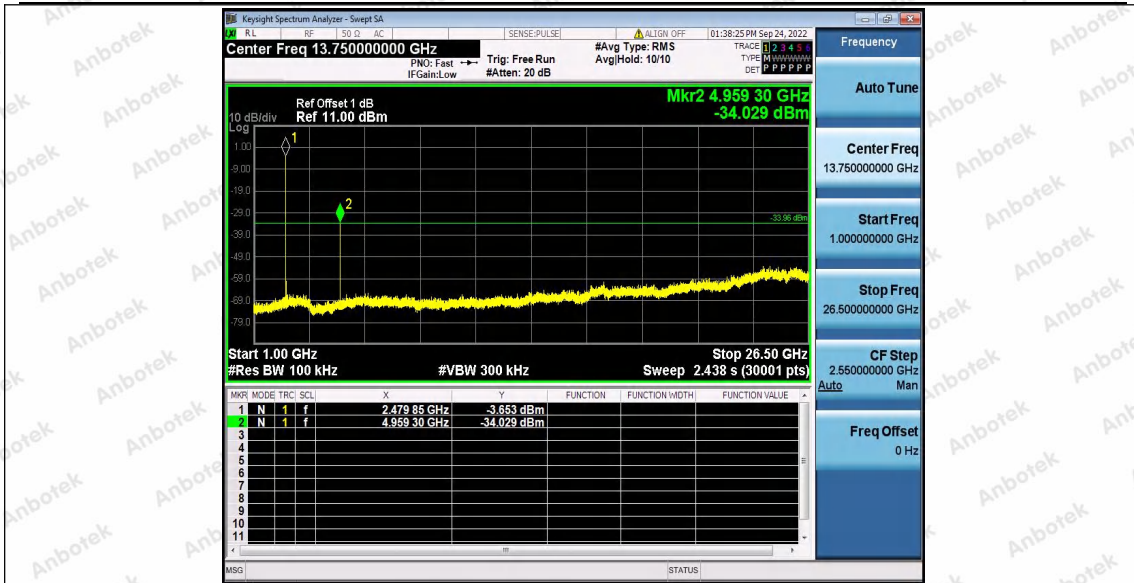
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BLE\_2M\_Ant1\_2402\_0~Reference



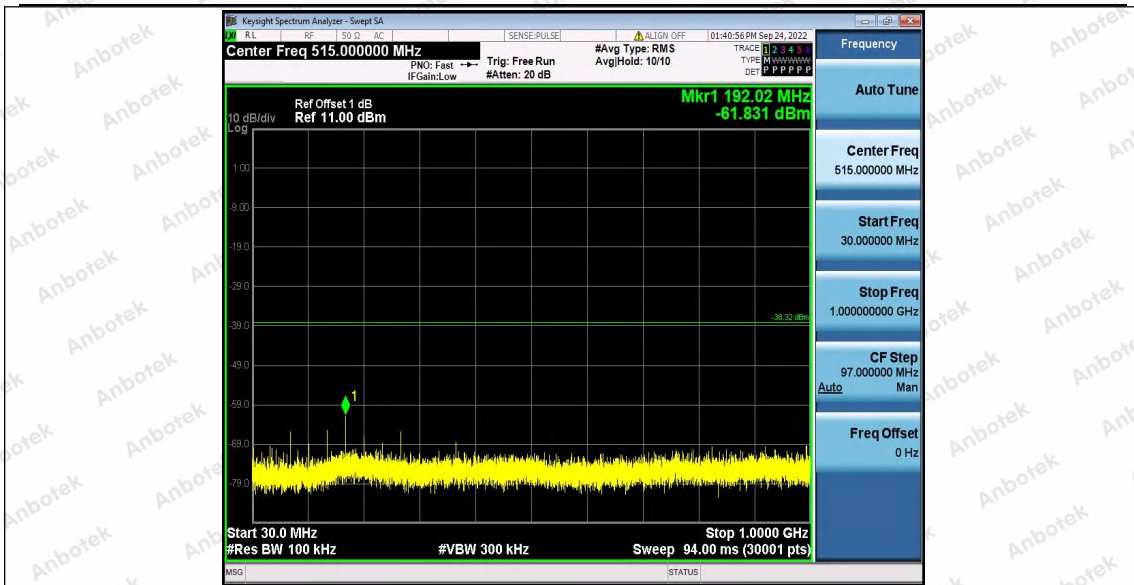
BLE\_2M\_Ant1\_2402\_30~100

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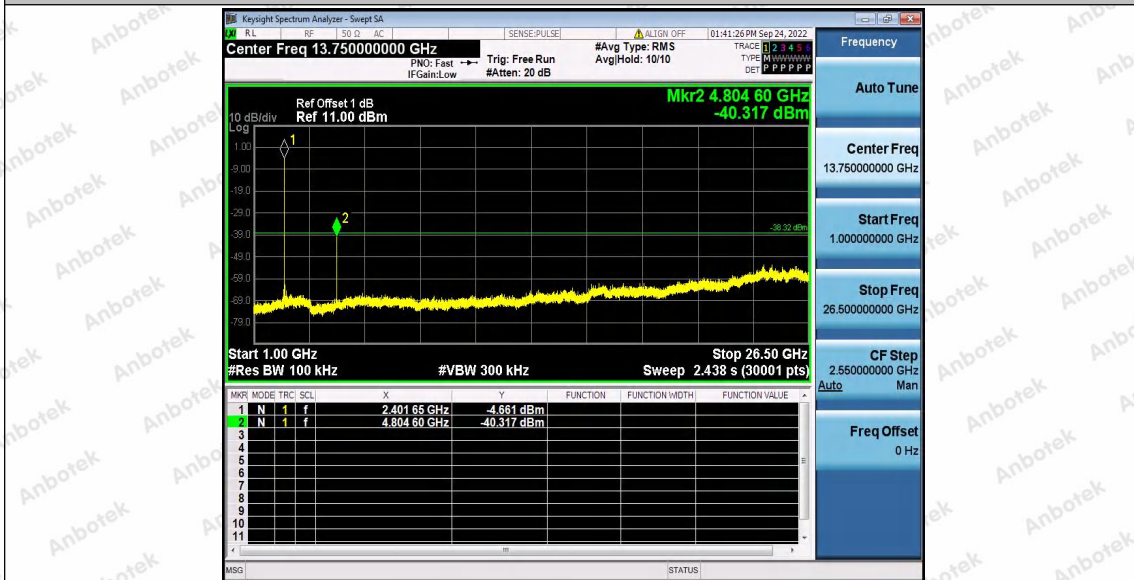
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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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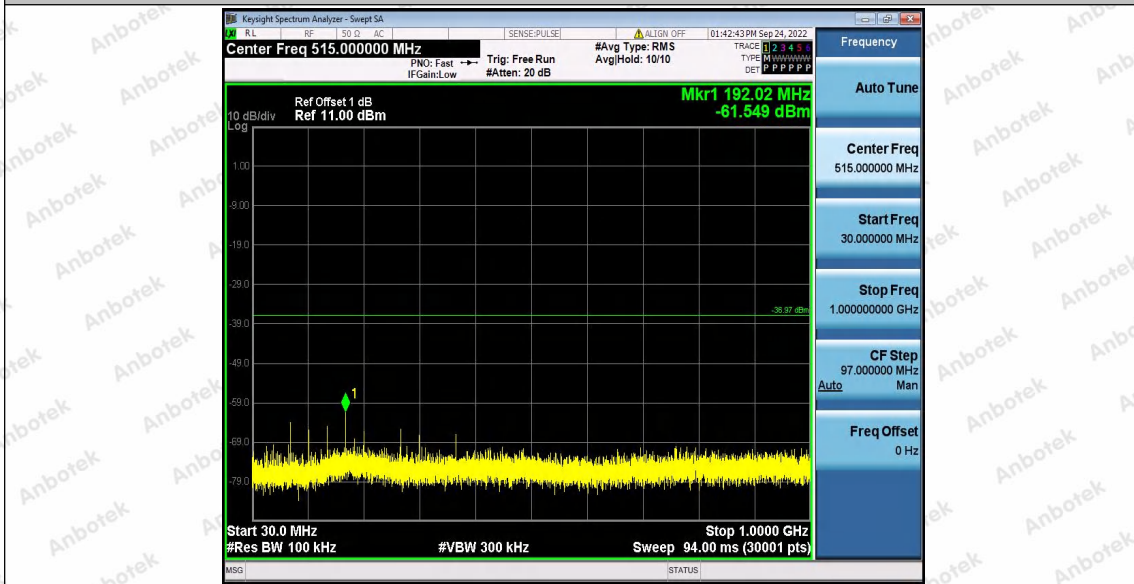
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BLE\_2M\_Ant1\_2440\_30~1000



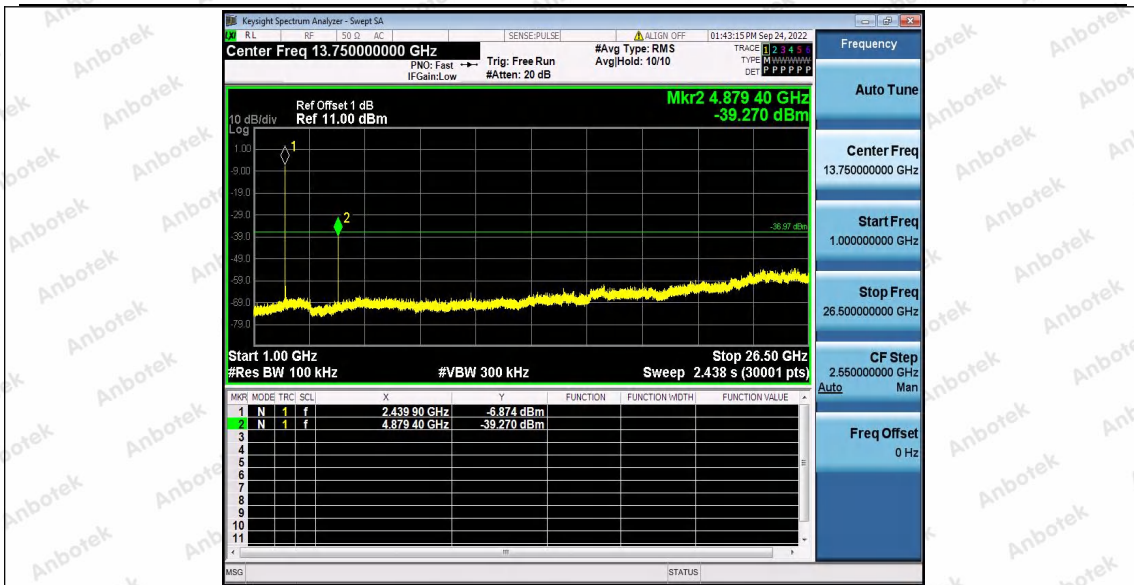
BLE\_2M\_Ant1\_2440\_1000~26500

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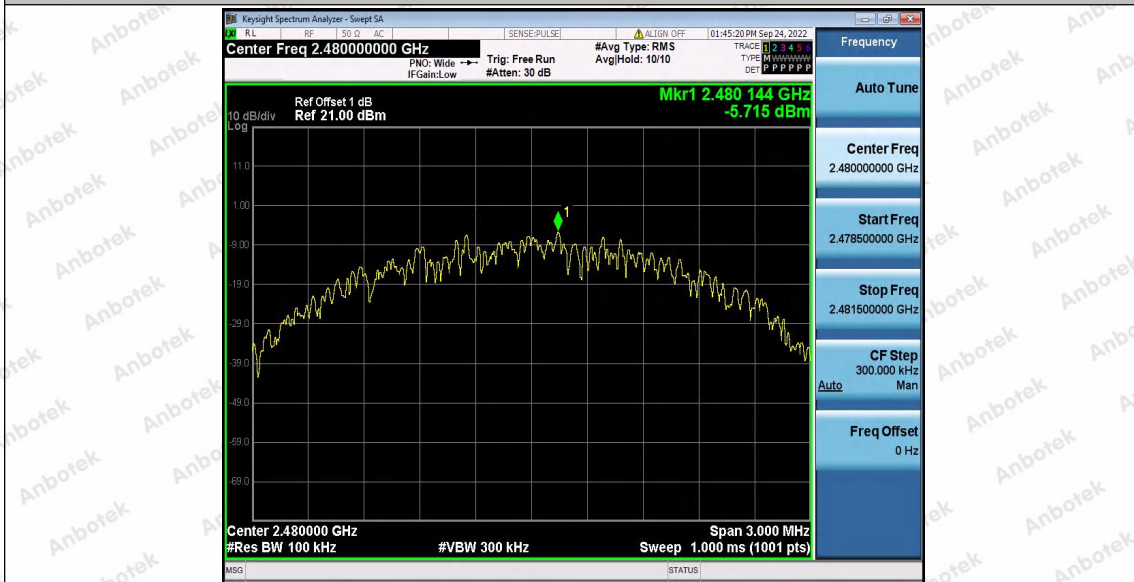
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BLE\_2M\_Ant1\_2480\_0~Reference



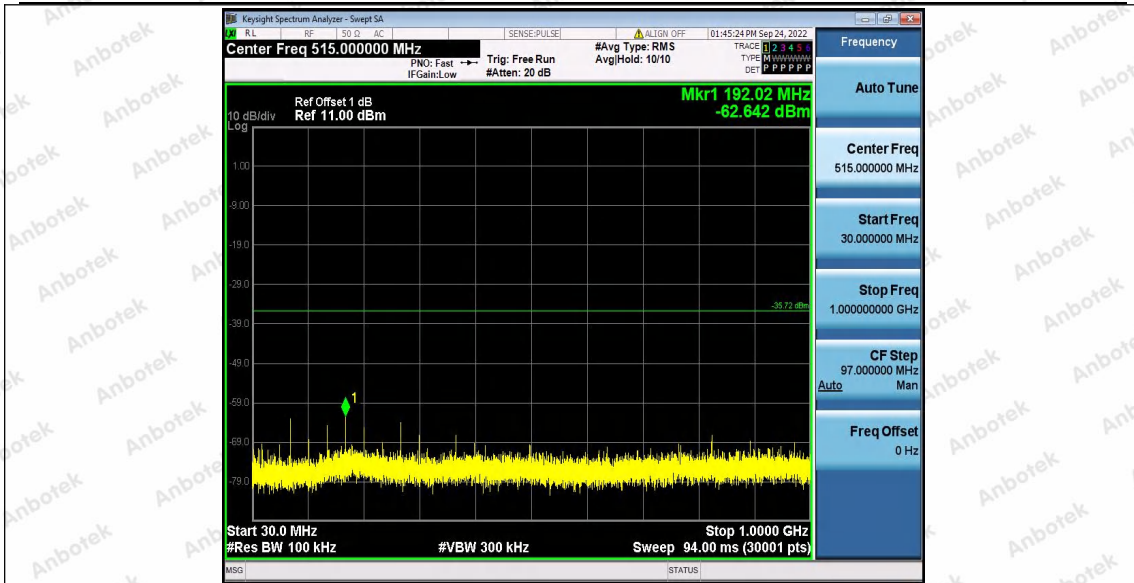
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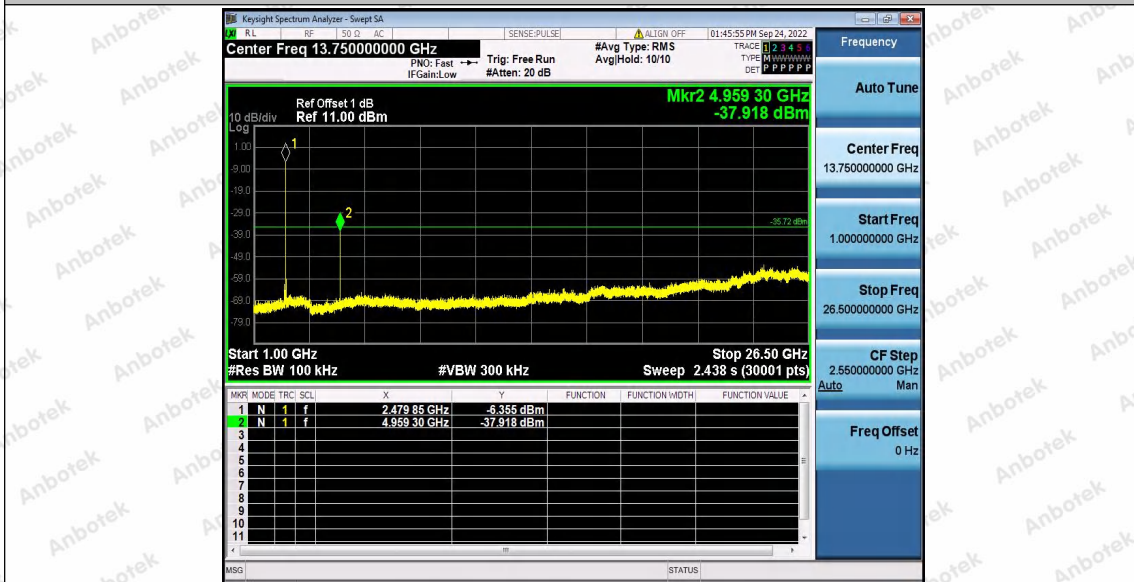
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BLE\_2M\_Ant1\_2480\_1000~26500



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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	2.15	2.50	86.00	0.66
		2440	2.16	2.50	86.40	0.63
		2480	2.16	2.50	86.40	0.63
BLE_2M	Ant1	2402	1.11	1.88	59.04	2.29
		2440	1.11	1.88	59.04	2.29
		2480	1.11	1.88	59.04	2.29

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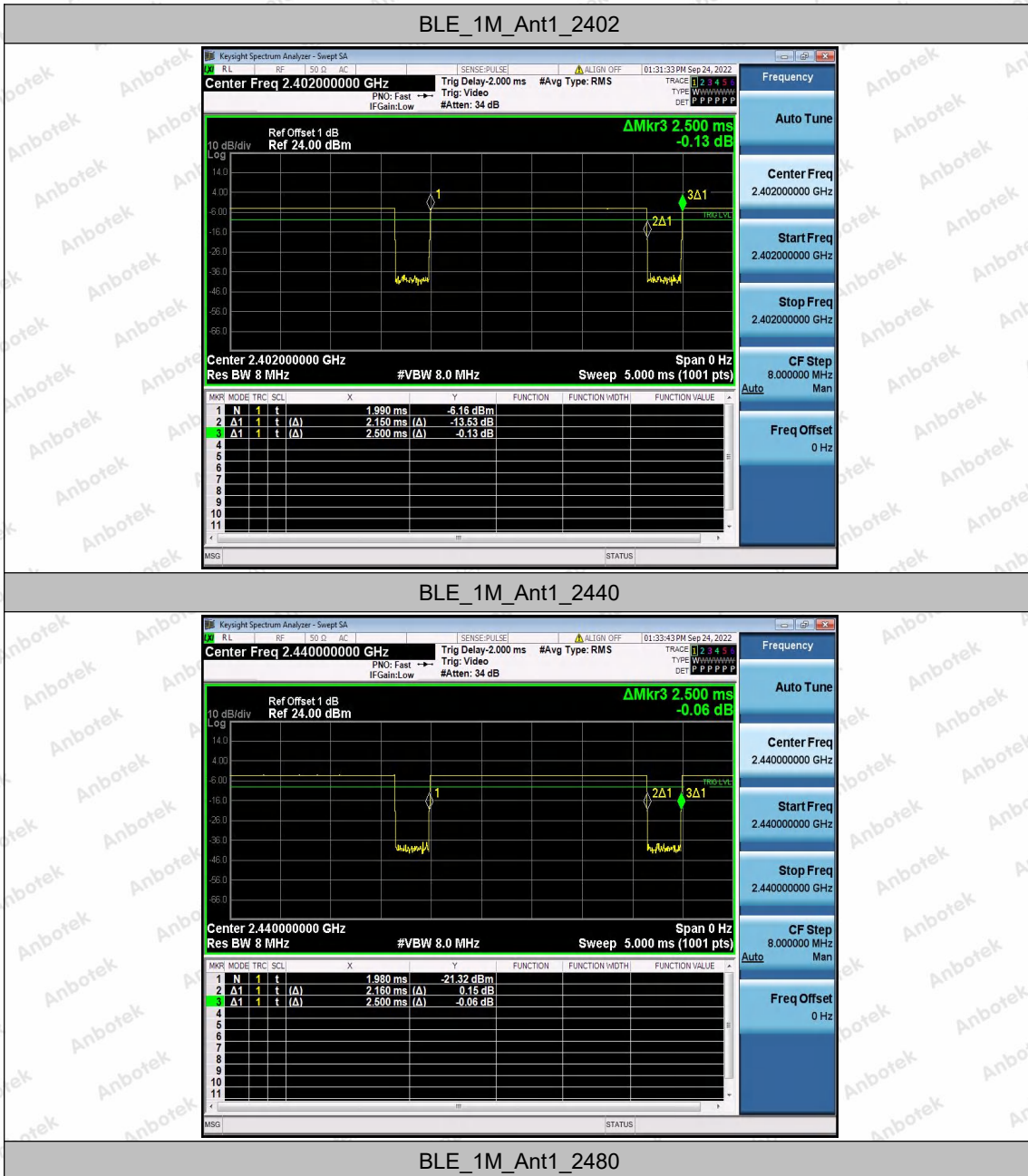
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## Test Graphs

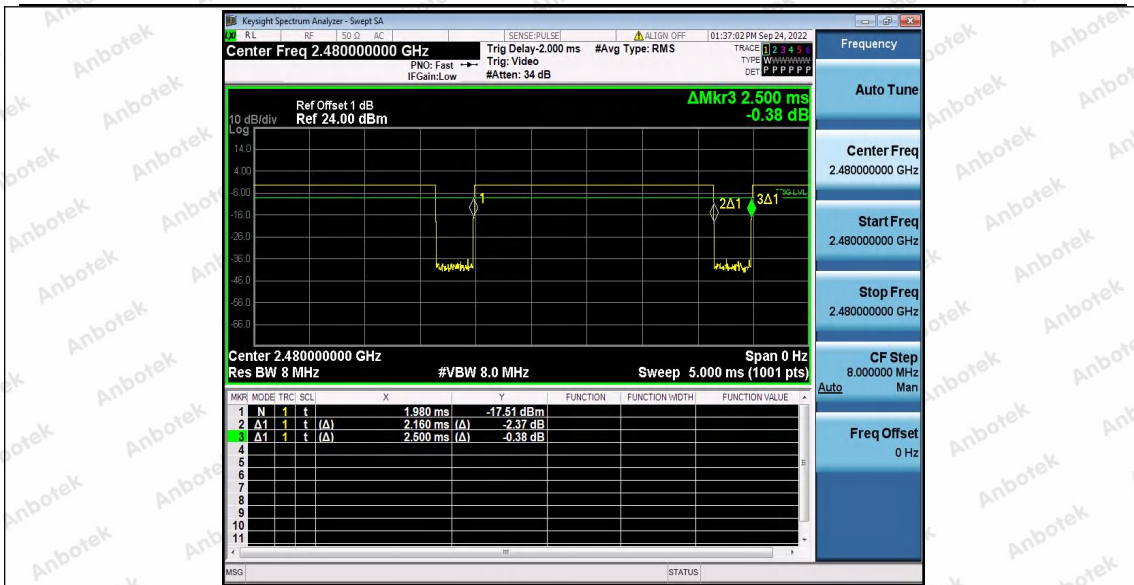


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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

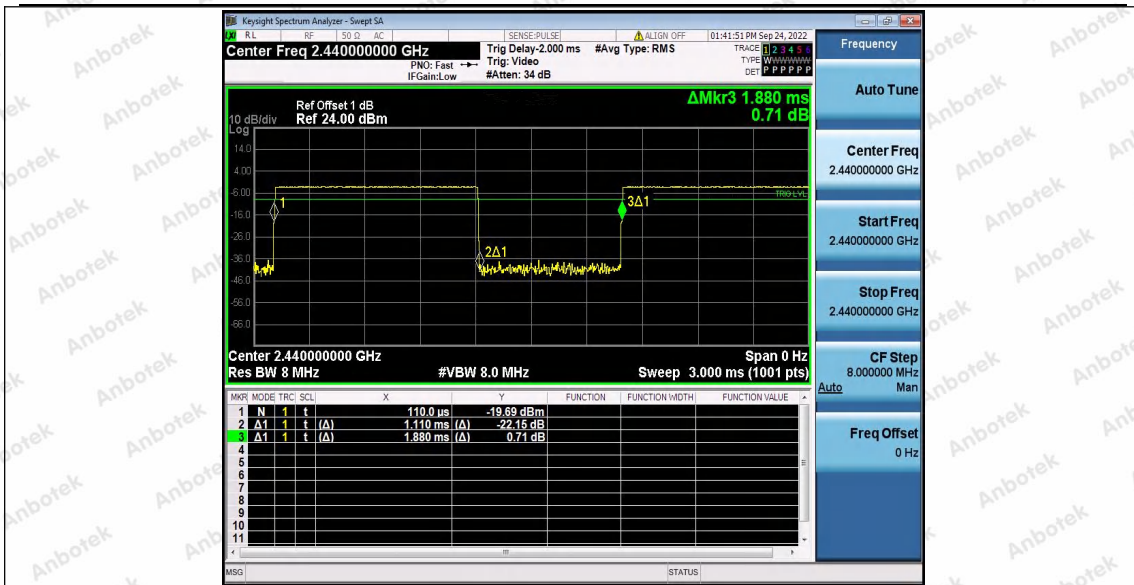
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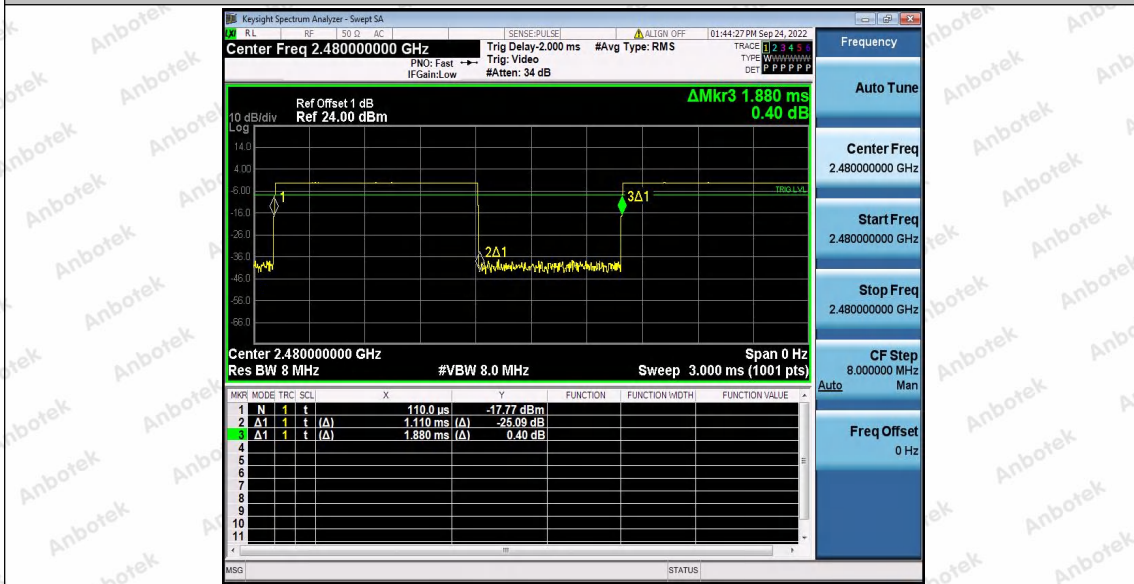
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### BLE\_2M\_Ant1\_2480



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