

Appendix Test Data

Report No:	18220WC30047302	Test Sample NO:	1-2-2
Start Test Date:	2023.03.21	Finish Test Date:	2023.03.28
Test Engineer:	<i>Rock Luo</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	56%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.668	2402.316	0.5	PASS
		2440	0.620	2439.676	2440.296	0.5	PASS
		2480	0.620	2479.676	2480.296	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.452	2402.564	0.5	PASS
		2440	1.100	2439.472	2440.572	0.5	PASS
		2480	1.124	2479.436	2480.560	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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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0405	2401.4800	2402.5205
		2440	1.0297	2439.4782	2440.5079
		2480	1.0328	2479.4819	2480.5147
BLE_2M	Ant1	2402	2.0482	2400.9926	2403.0408
		2440	2.0592	2438.9810	2441.0402
		2480	2.0419	2478.9939	2481.0358

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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.51	≤30	PASS
		2440	6.42	≤30	PASS
		2480	6.23	≤30	PASS
BLE_2M	Ant1	2402	6.53	≤30	PASS
		2440	6.44	≤30	PASS
		2480	6.26	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.57	≤8.00	PASS
		2440	-8.32	≤8.00	PASS
		2480	-8.57	≤8.00	PASS
BLE_2M	Ant1	2402	-11.23	≤8.00	PASS
		2440	-11.36	≤8.00	PASS
		2480	-11.55	≤8.00	PASS

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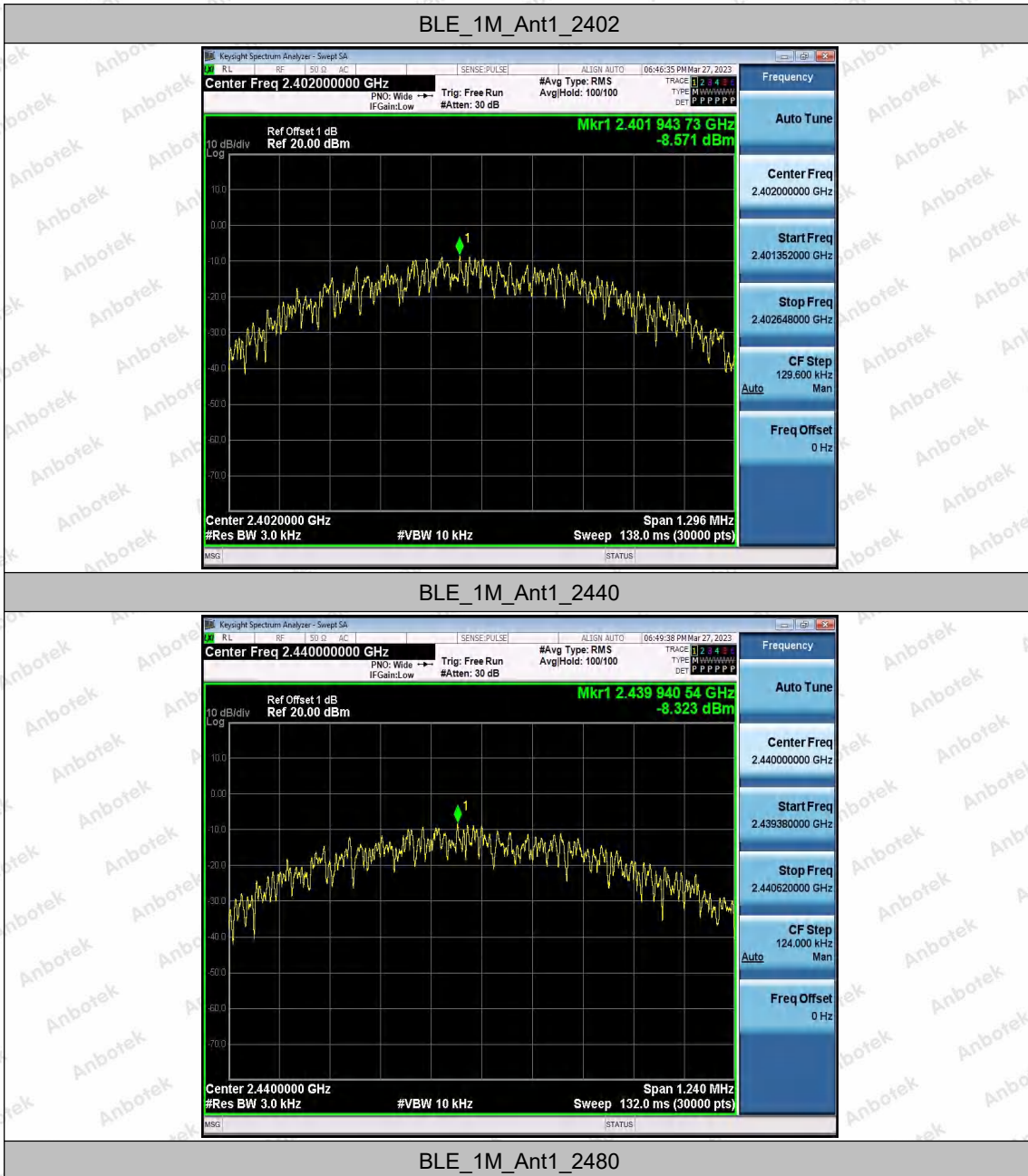
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Test Graphs



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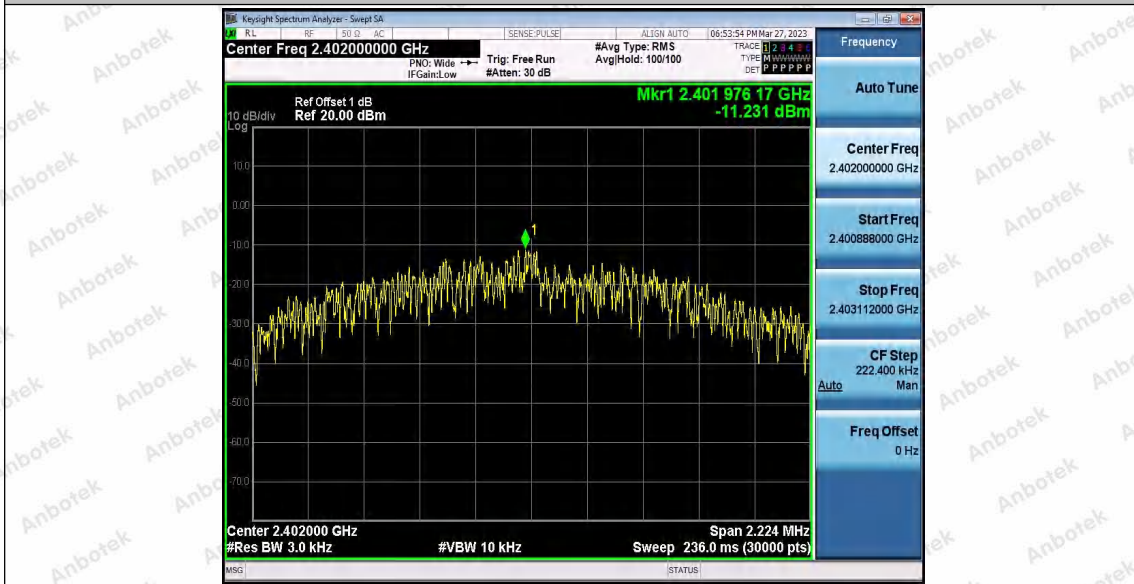
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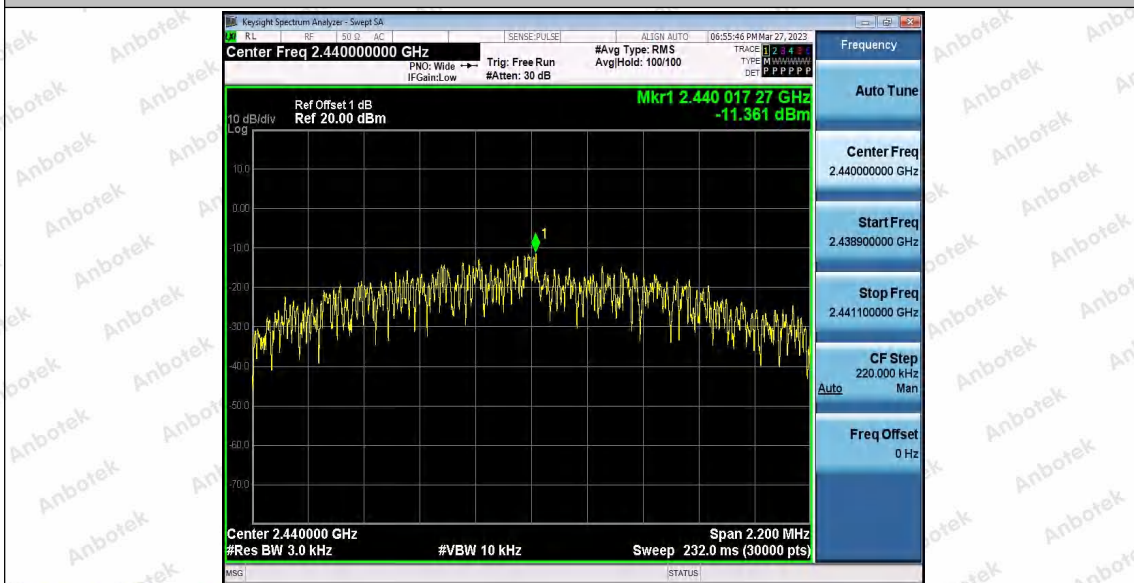




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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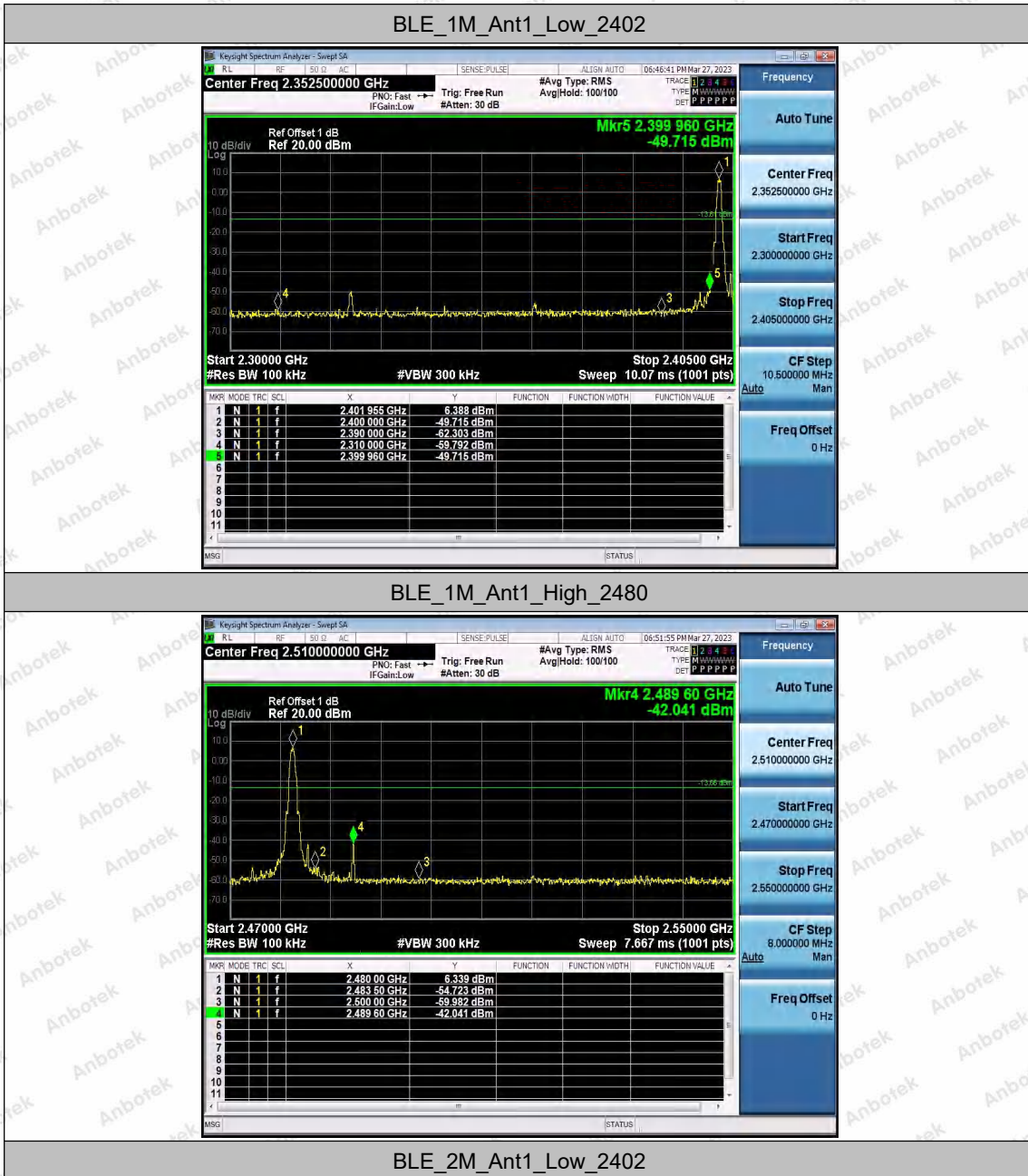
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.39	-49.72	≤-13.61	PASS
		High	2480	6.34	-42.04	≤-13.66	PASS
BLE_2M	Ant1	Low	2402	6.56	-26.73	≤-13.44	PASS
		High	2480	6.28	-40.59	≤-13.72	PASS



Test Graphs

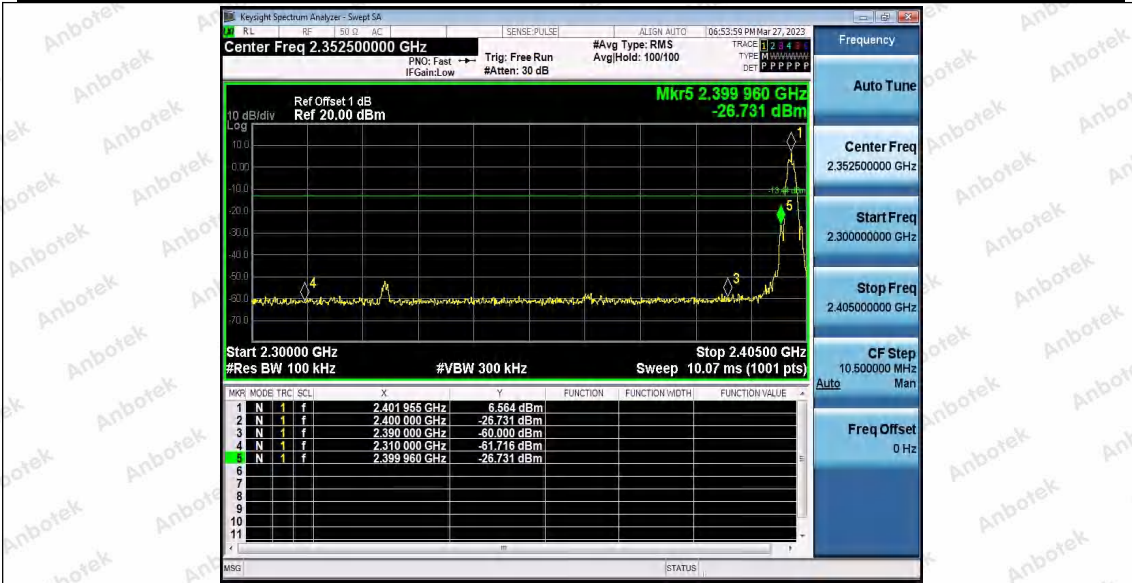


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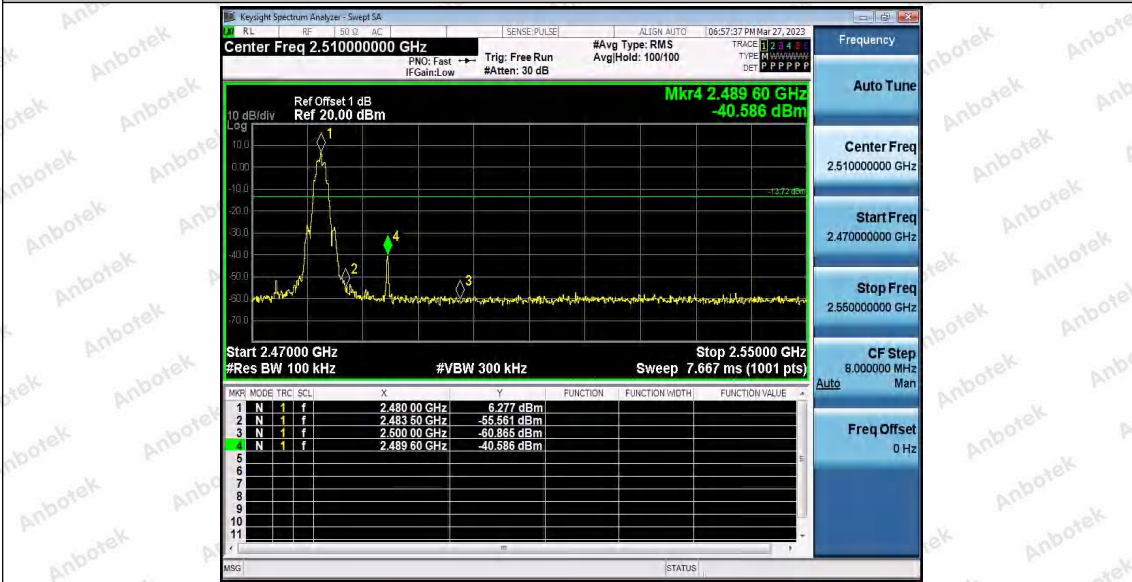
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BLE_2M_Ant1_High_2480



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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	4.98	4.98	---	PASS
			30~1000	4.98	-69.13	≤-15.02	PASS
			1000~26500	4.98	-51.66	≤-15.02	PASS
		2440	Reference	4.99	4.99	---	PASS
			30~1000	4.99	-68.91	≤-15.01	PASS
			1000~26500	4.99	-52.47	≤-15.01	PASS
		2480	Reference	6.09	6.09	---	PASS
			30~1000	6.09	-69.31	≤-13.91	PASS
			1000~26500	6.09	-51.71	≤-13.91	PASS
BLE_2M	Ant1	2402	Reference	5.85	5.85	---	PASS
			30~1000	5.85	-68.64	≤-14.15	PASS
			1000~26500	5.85	-51.21	≤-14.15	PASS
		2440	Reference	3.79	3.79	---	PASS
			30~1000	3.79	-55.95	≤-16.21	PASS
			1000~26500	3.79	-53.34	≤-16.21	PASS
		2480	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-68.43	≤-15.44	PASS
			1000~26500	4.56	-52.93	≤-15.44	PASS

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Test Graphs

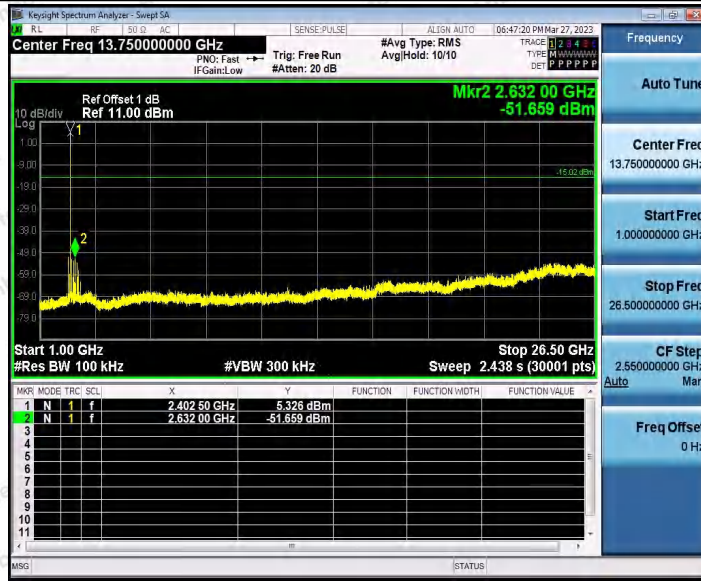


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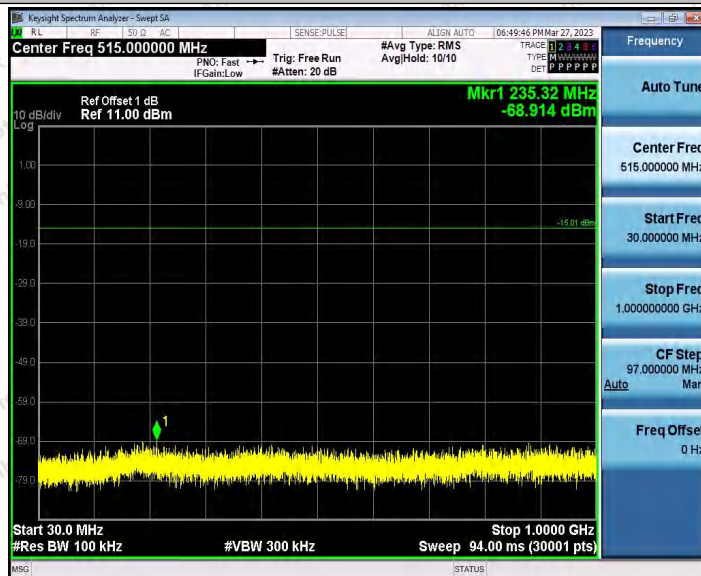




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



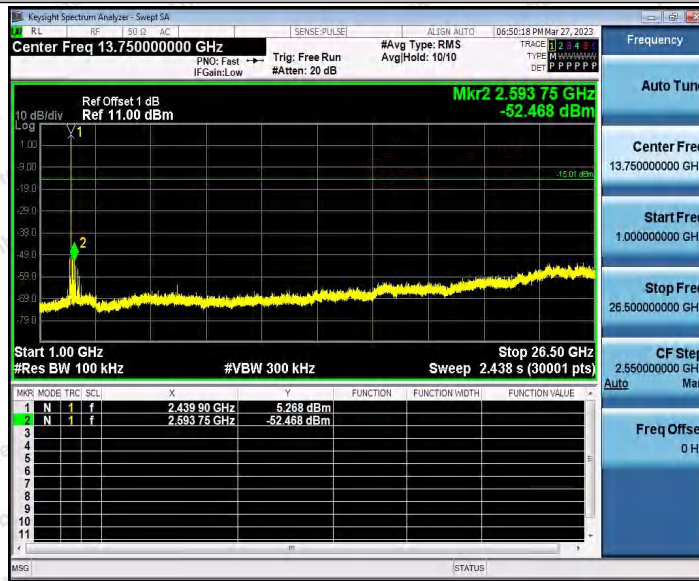
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

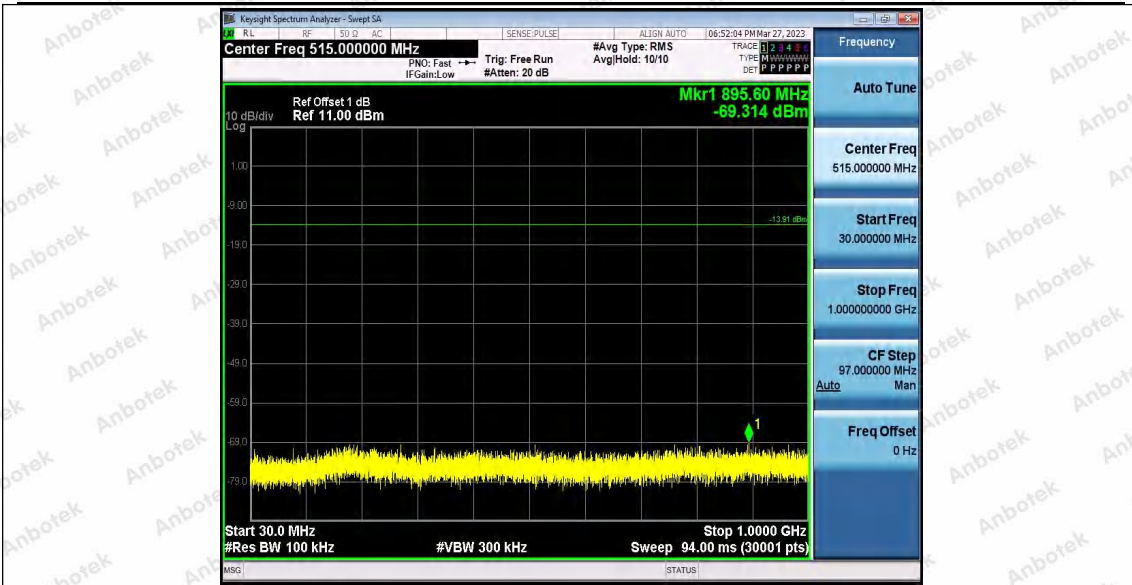
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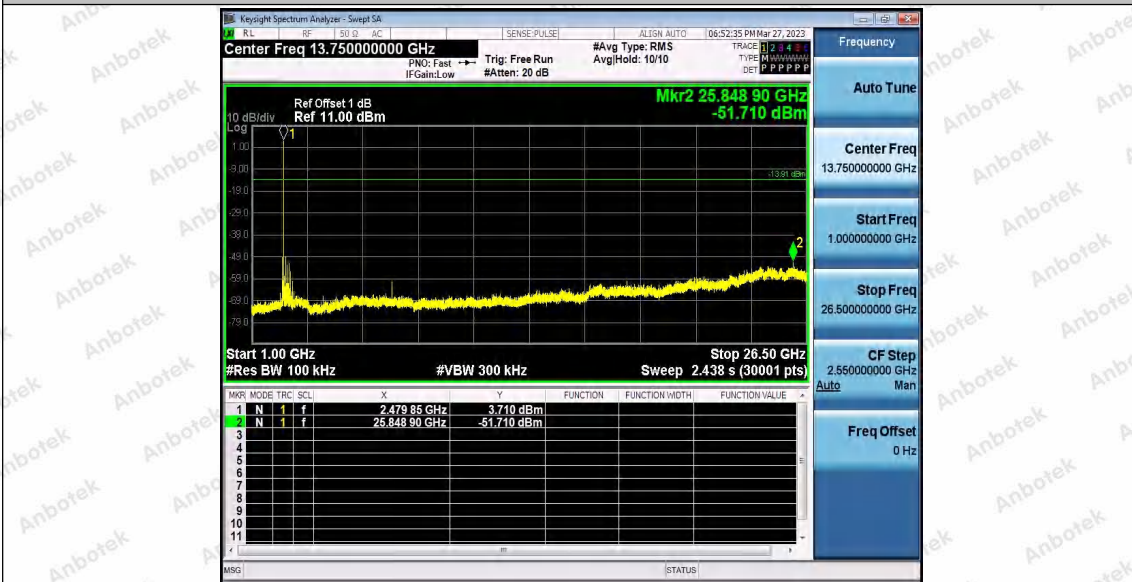


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



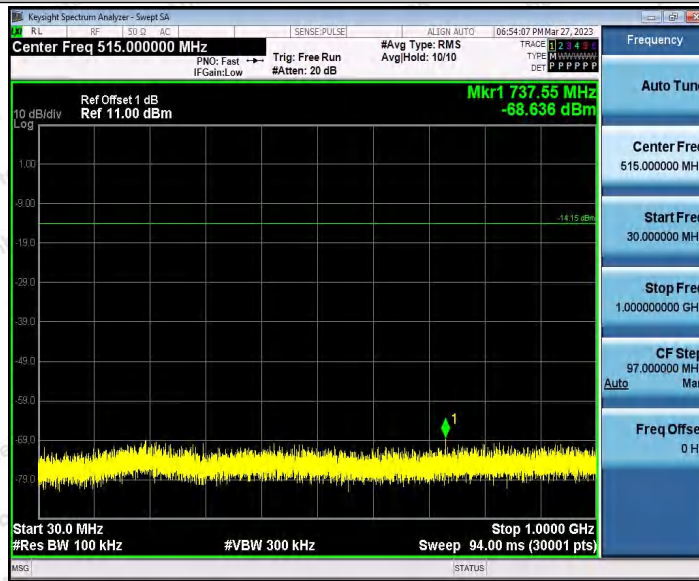
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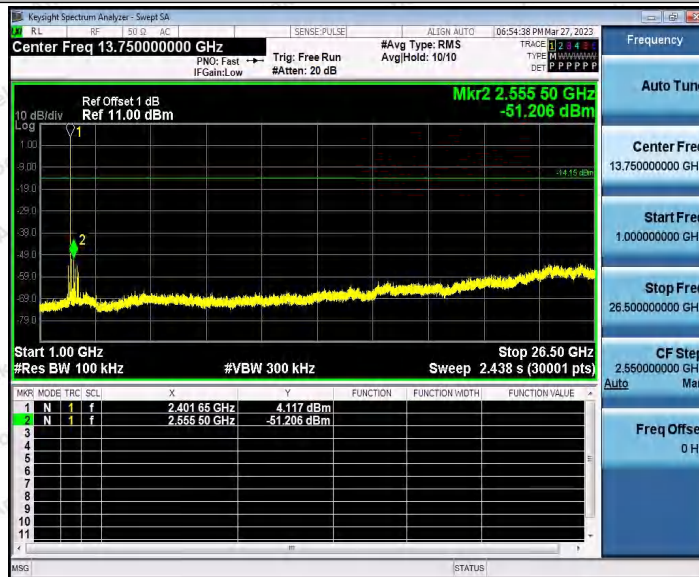
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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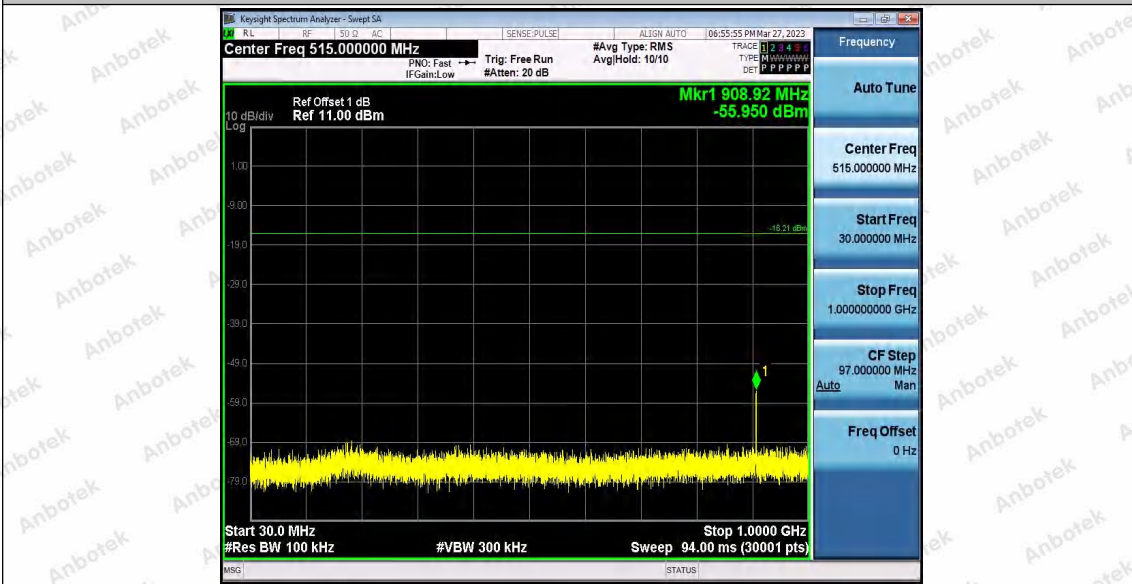
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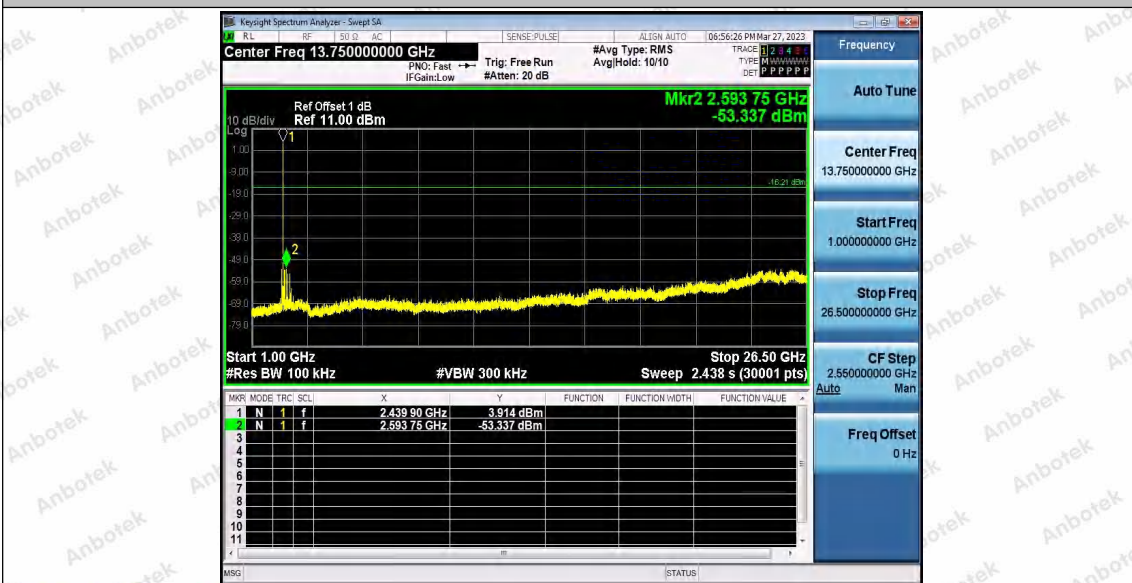




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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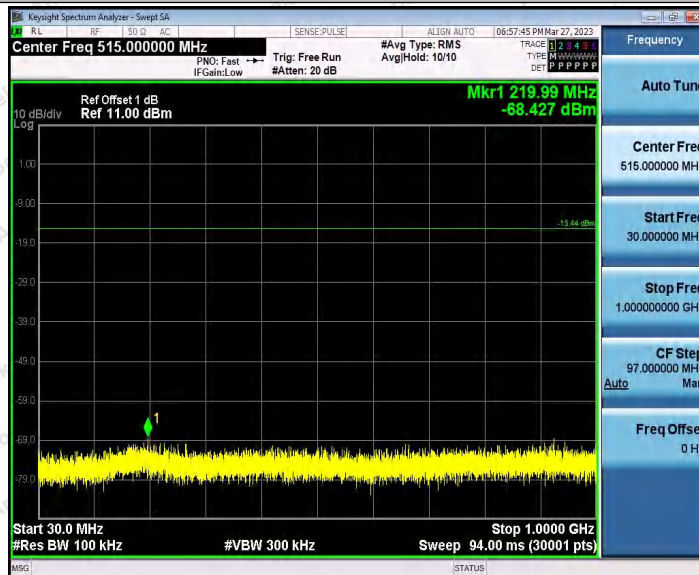
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

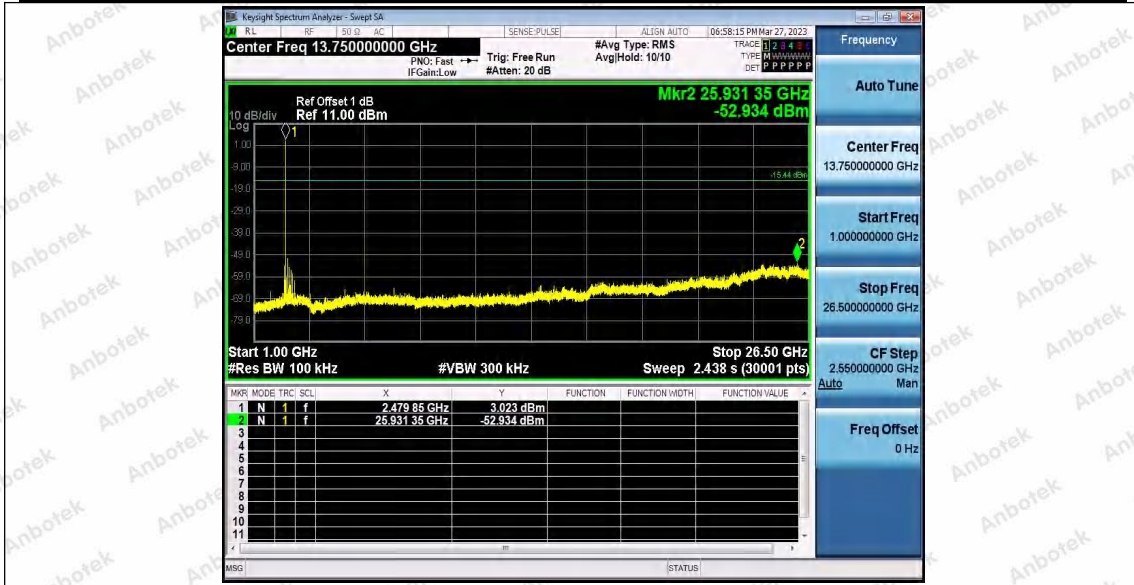
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

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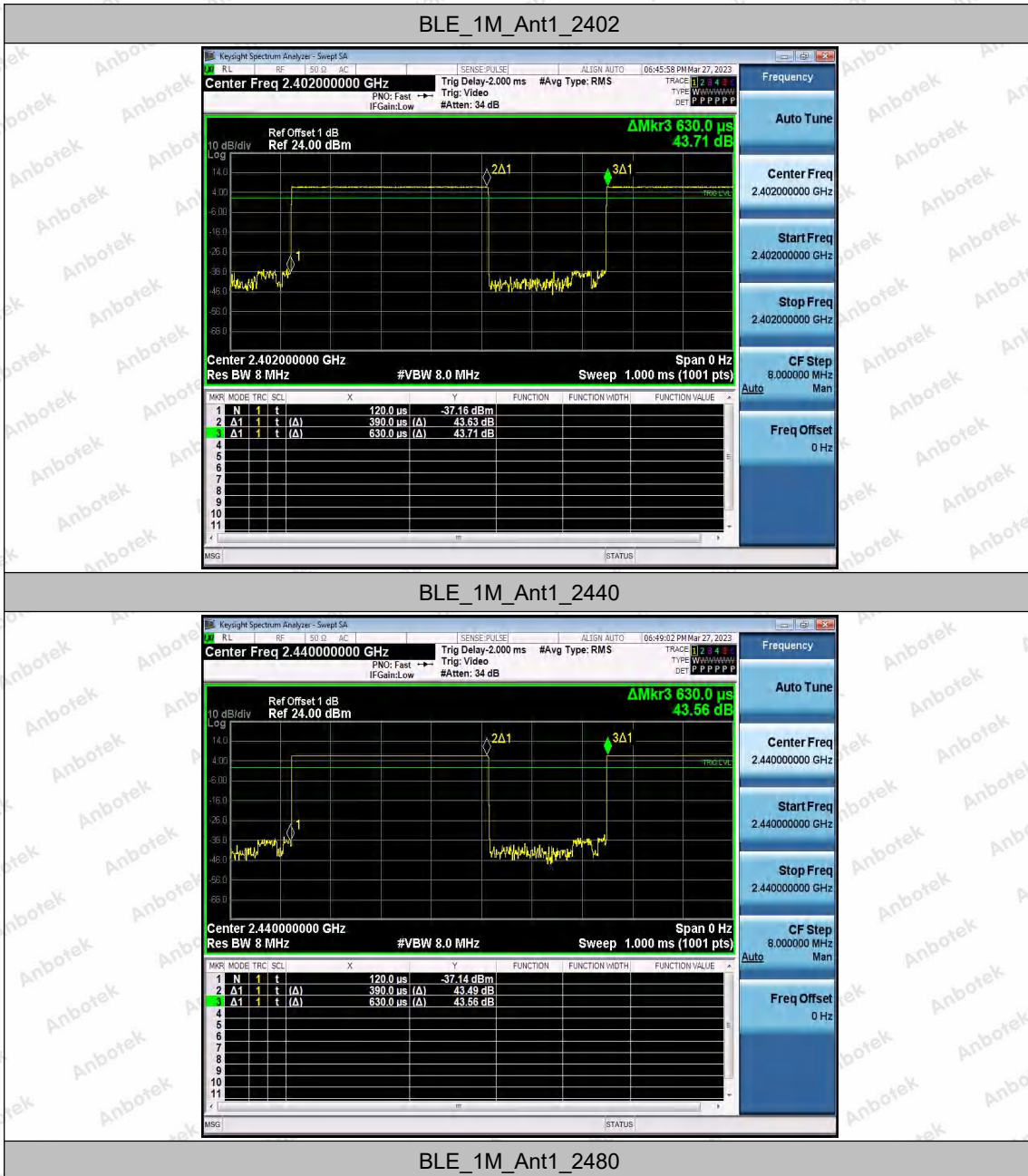
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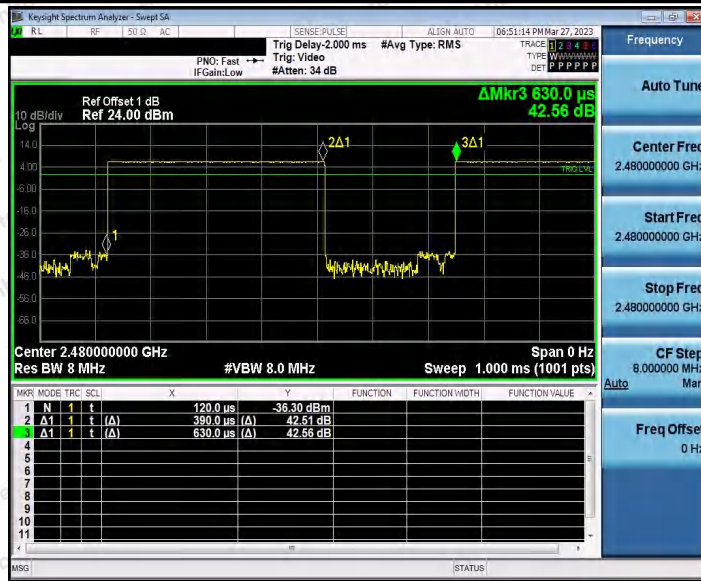


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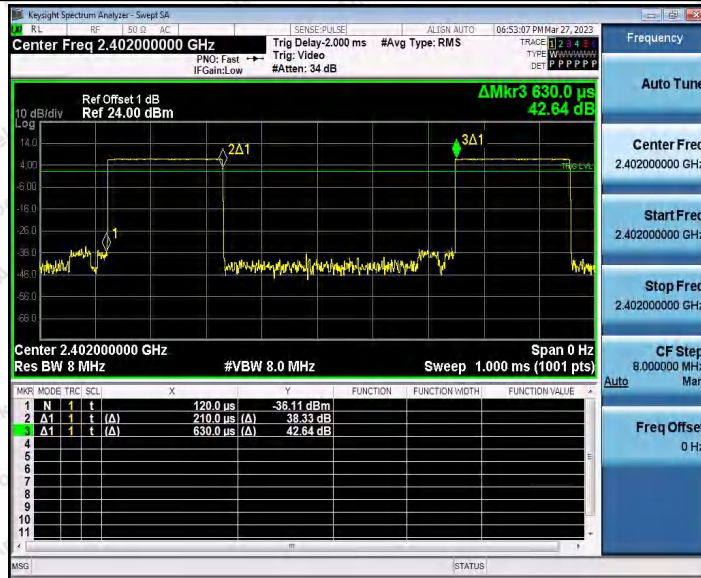
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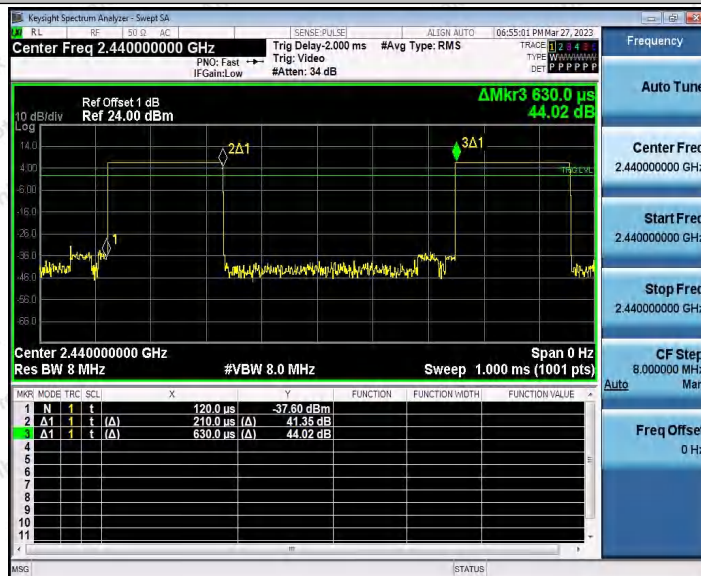




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

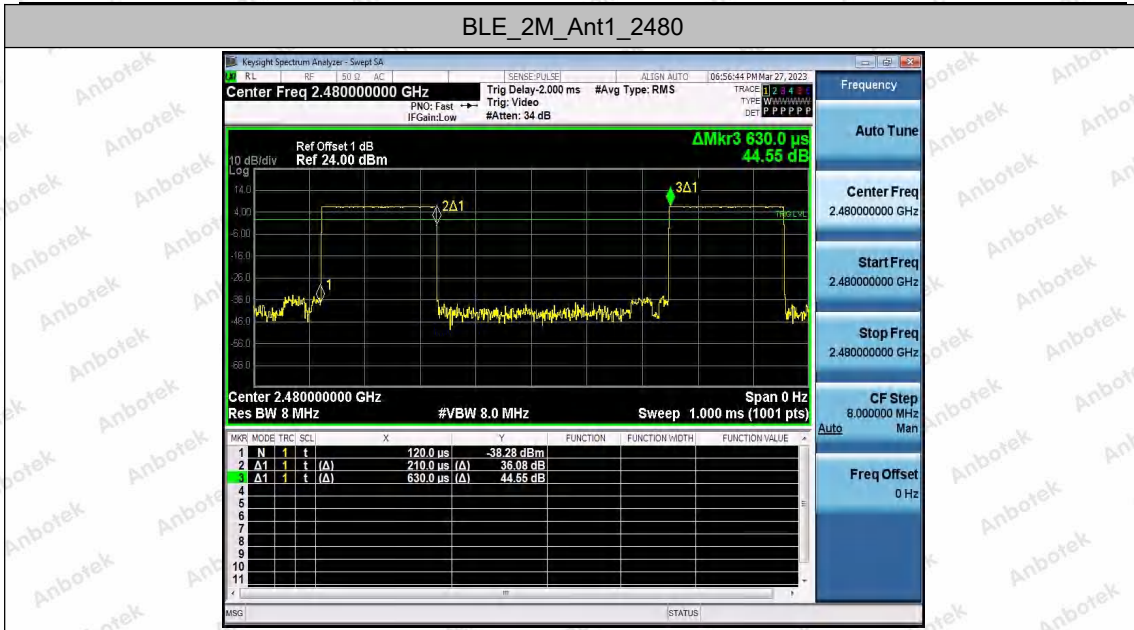


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