

Appendix Test Data

Report No:	18220WC30041902	Test Sample NO:	1-2-2
Start Test Date:	2023.03.15	Finish Test Date:	2023.04.10
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.4°C	Relative Humidity:	53%
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	0.664	2401.660	2402.324	0.5	PASS
		2440	0.676	2439.656	2440.332	0.5	PASS
		2480	0.664	2479.656	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.100	2401.440	2402.540	0.5	PASS
		2440	1.108	2439.444	2440.552	0.5	PASS
		2480	1.072	2479.448	2480.520	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	1.0412	2401.4789	2402.5201
		2440	1.0418	2439.4786	2440.5204
		2480	1.0342	2479.4809	2480.5151
BLE_2M	Ant1	2402	2.0446	2400.9920	2403.0366
		2440	2.0355	2438.9997	2441.0352
		2480	2.0619	2478.9822	2481.0441

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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	5.09	≤30	PASS
		2440	5.09	≤30	PASS
		2480	5.78	≤30	PASS
BLE_2M	Ant1	2402	5.1	≤30	PASS
		2440	5.14	≤30	PASS
		2480	5.83	≤30	PASS

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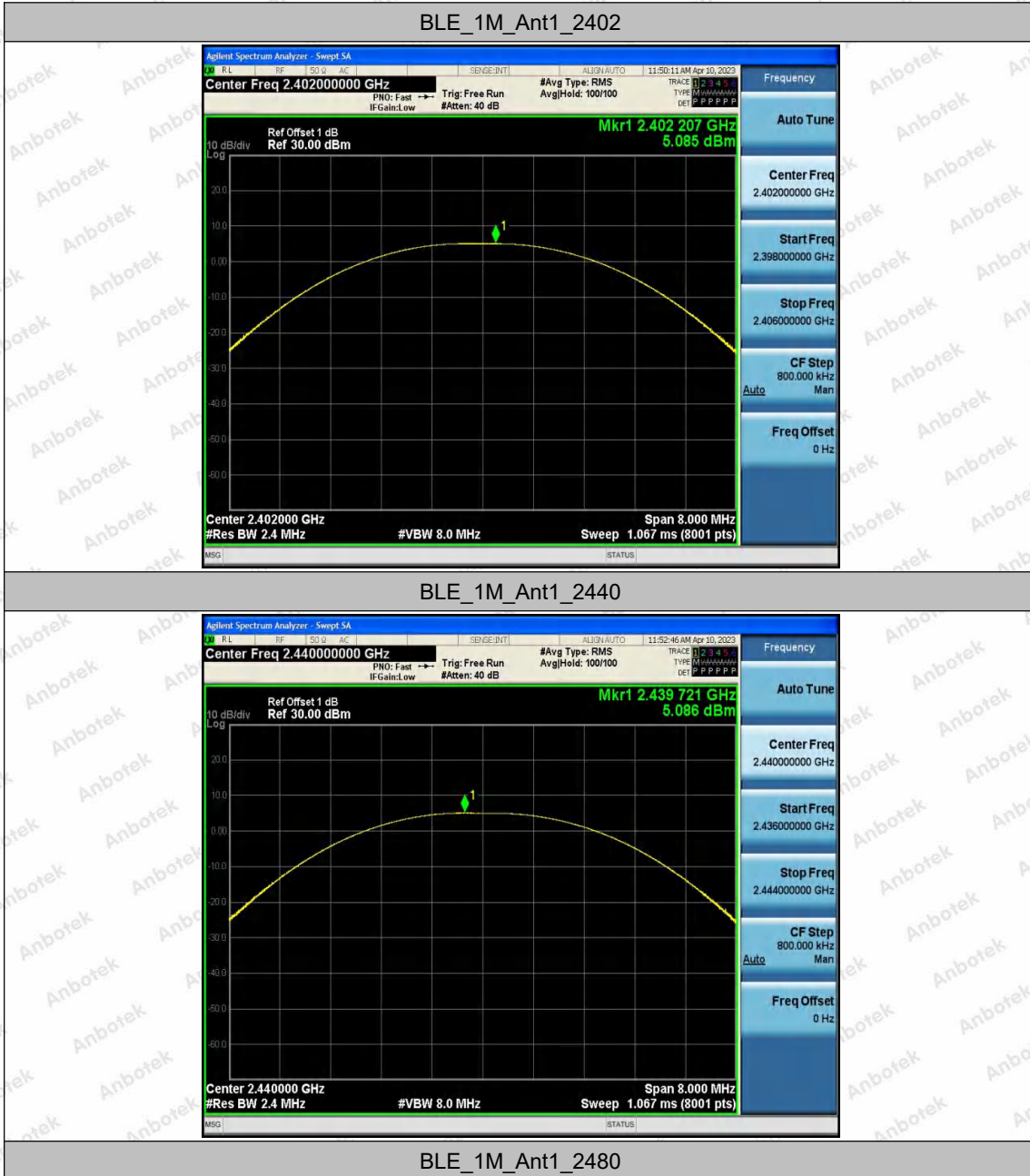
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Test Graphs Peak



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BLE_2M_Ant1_2402



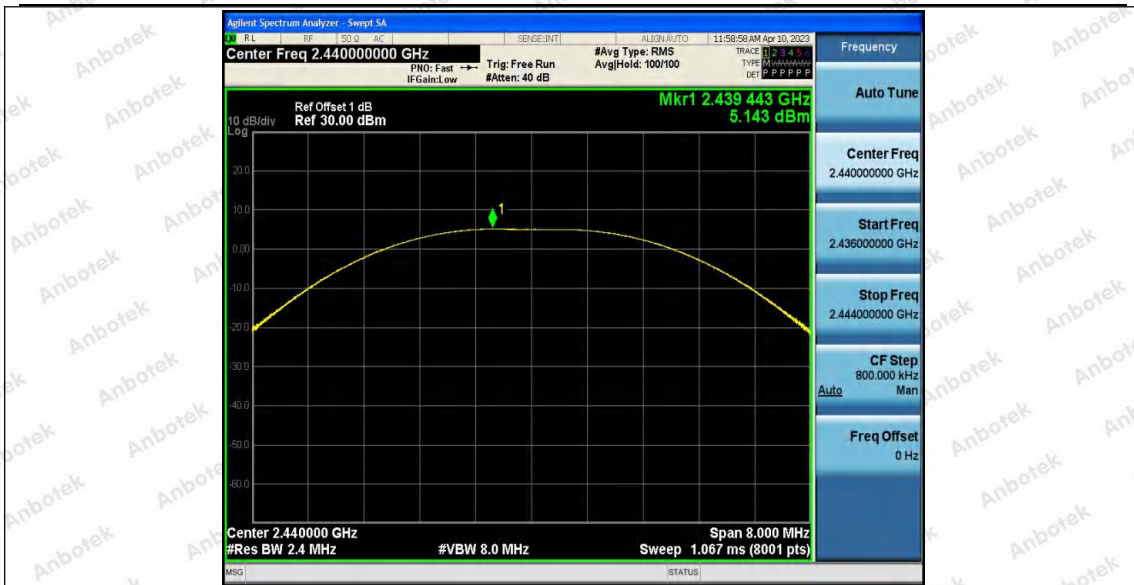
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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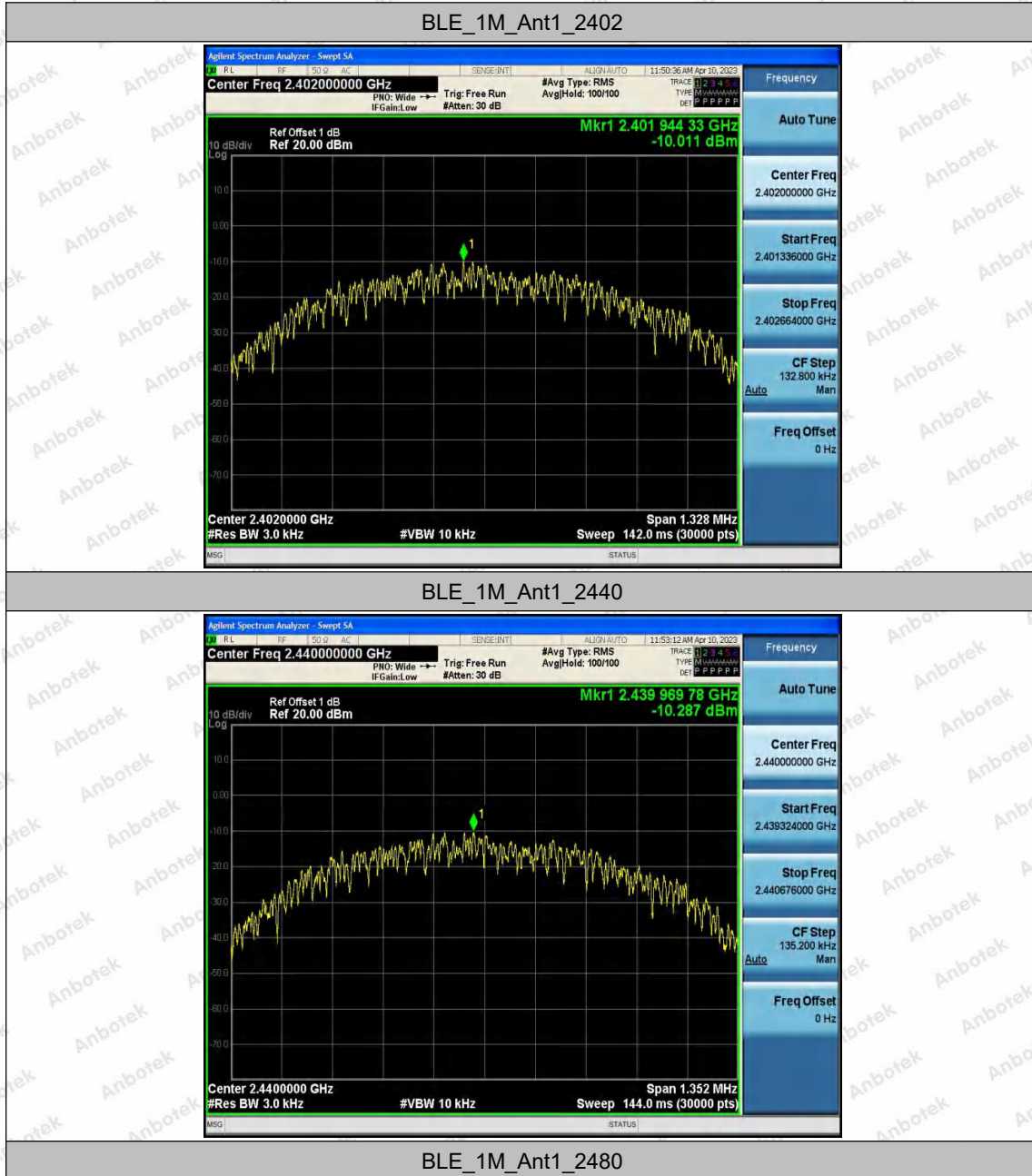
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.01	≤8.00	PASS
		2440	-10.29	≤8.00	PASS
		2480	-9.81	≤8.00	PASS
BLE_2M	Ant1	2402	-12.68	≤8.00	PASS
		2440	-12.57	≤8.00	PASS
		2480	-11.87	≤8.00	PASS



Test Graphs



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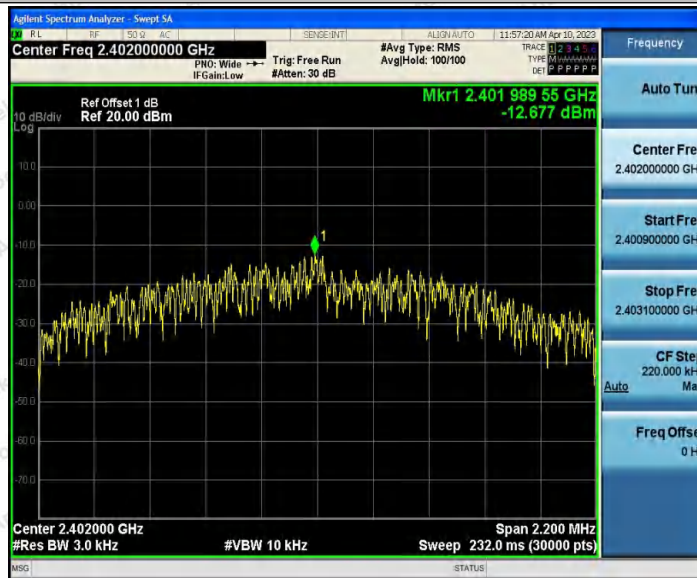
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BLE_2M_Ant1_2402



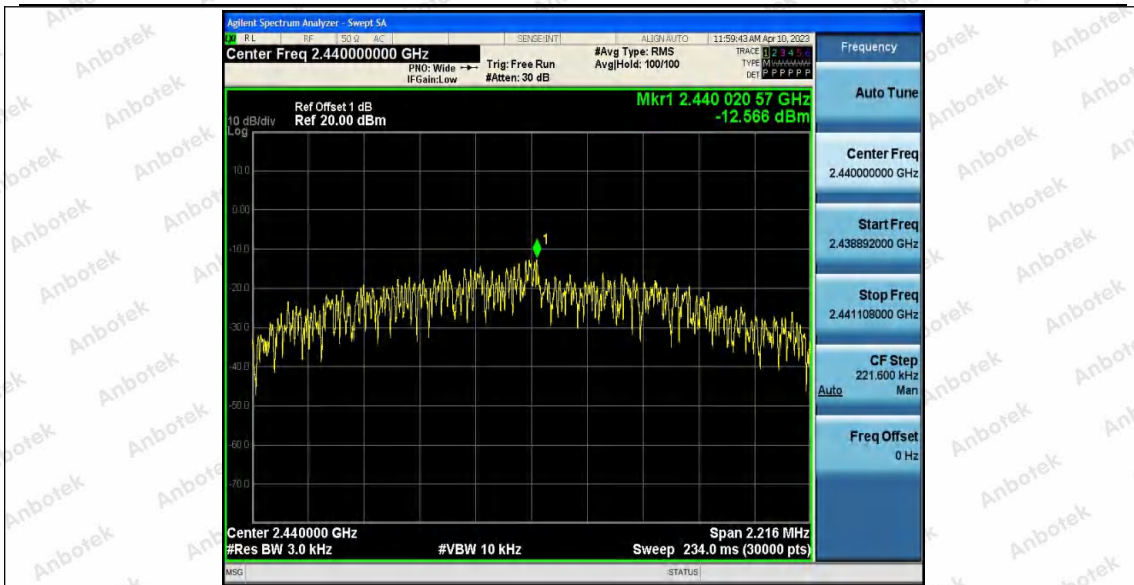
BLE_2M_Ant1_2440

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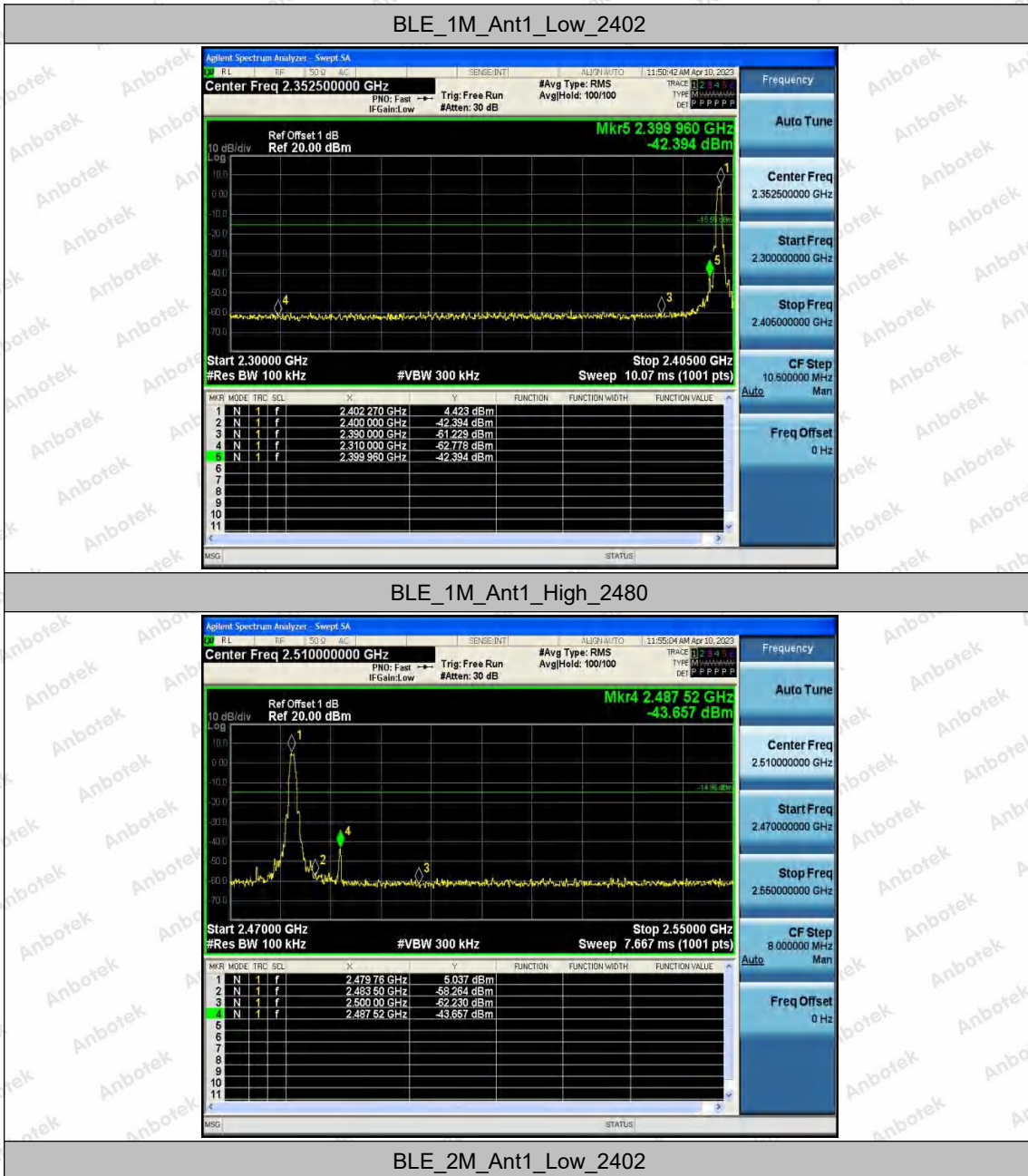
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.42	-42.39	≤-15.58	PASS
		High	2480	5.04	-43.66	≤-14.96	PASS
BLE_2M	Ant1	Low	2402	4.34	-31.29	≤-15.66	PASS
		High	2480	5.62	-43.95	≤-14.39	PASS



Test Graphs

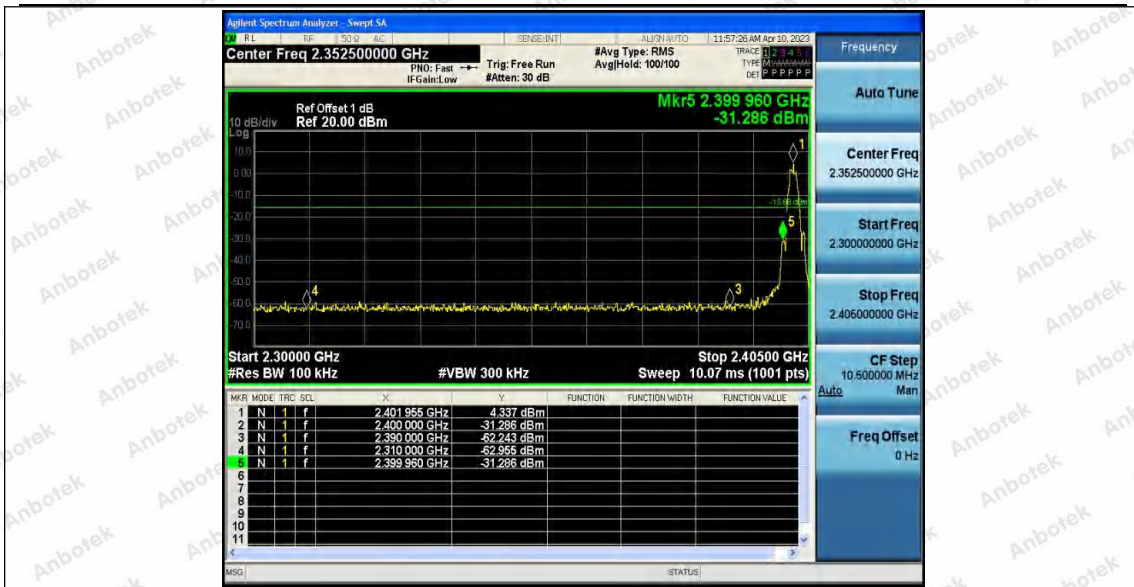


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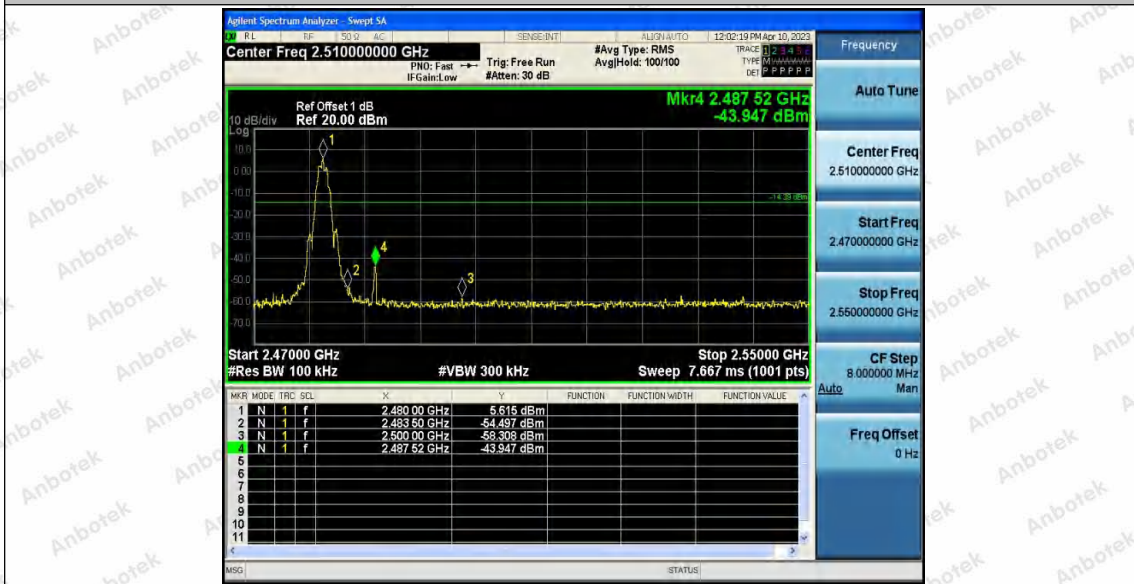
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BLE_2M_Ant1_High_2480



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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	4.92	4.92	---	PASS
			30~1000	4.92	-69.42	≤-15.08	PASS
			1000~26500	4.92	-54.05	≤-15.08	PASS
		2440	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-69.62	≤-16.41	PASS
			1000~26500	3.59	-54.77	≤-16.41	PASS
		2480	Reference	4.81	4.81	---	PASS
			30~1000	4.81	-69.25	≤-15.19	PASS
			1000~26500	4.81	-53.83	≤-15.19	PASS
BLE_2M	Ant1	2402	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-68.96	≤-18	PASS
			1000~26500	2.00	-54.57	≤-18	PASS
		2440	Reference	2.04	2.04	---	PASS
			30~1000	2.04	-69.44	≤-17.96	PASS
			1000~26500	2.04	-54.96	≤-17.96	PASS
		2480	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-68.36	≤-15.54	PASS
			1000~26500	4.46	-54.88	≤-15.54	PASS



Test Graphs



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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

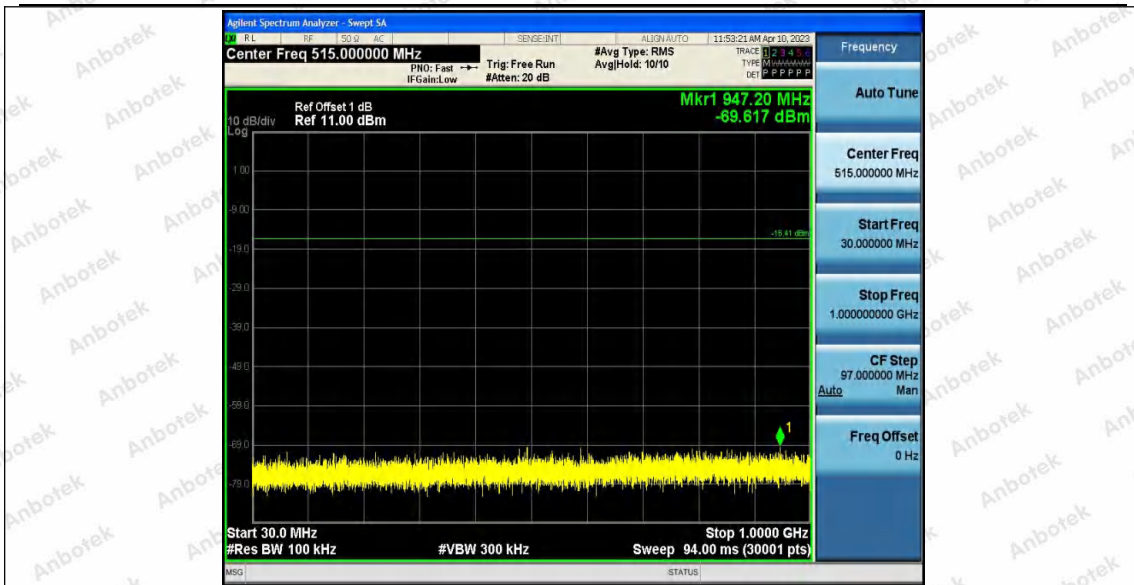
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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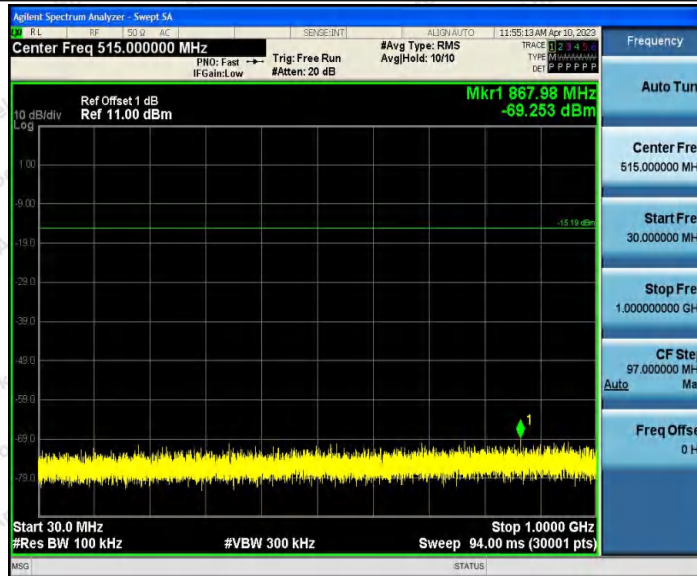
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



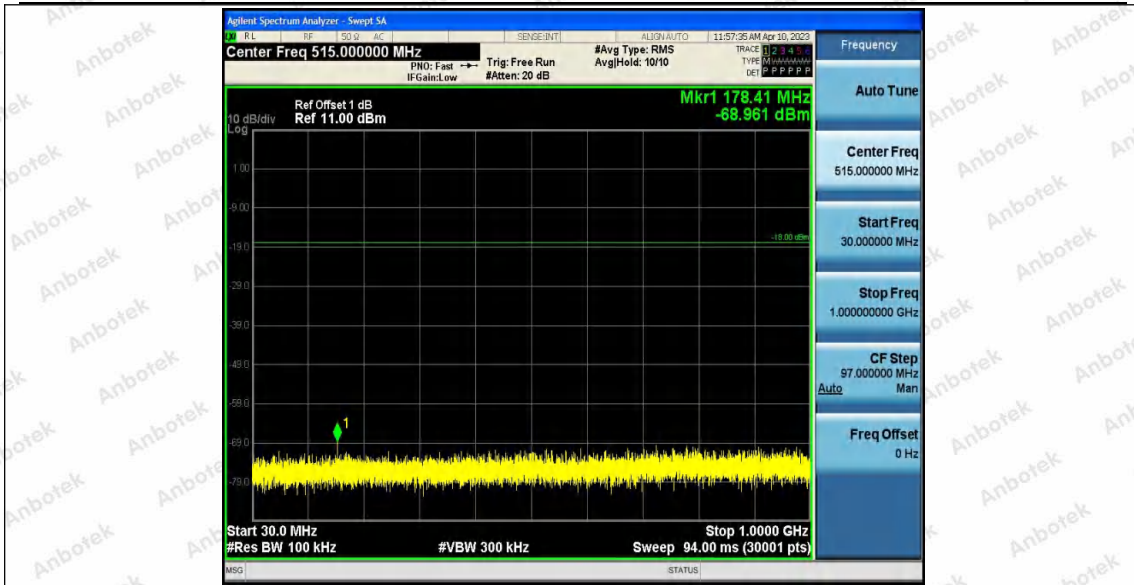
BLE_2M_Ant1_2402_30~1000

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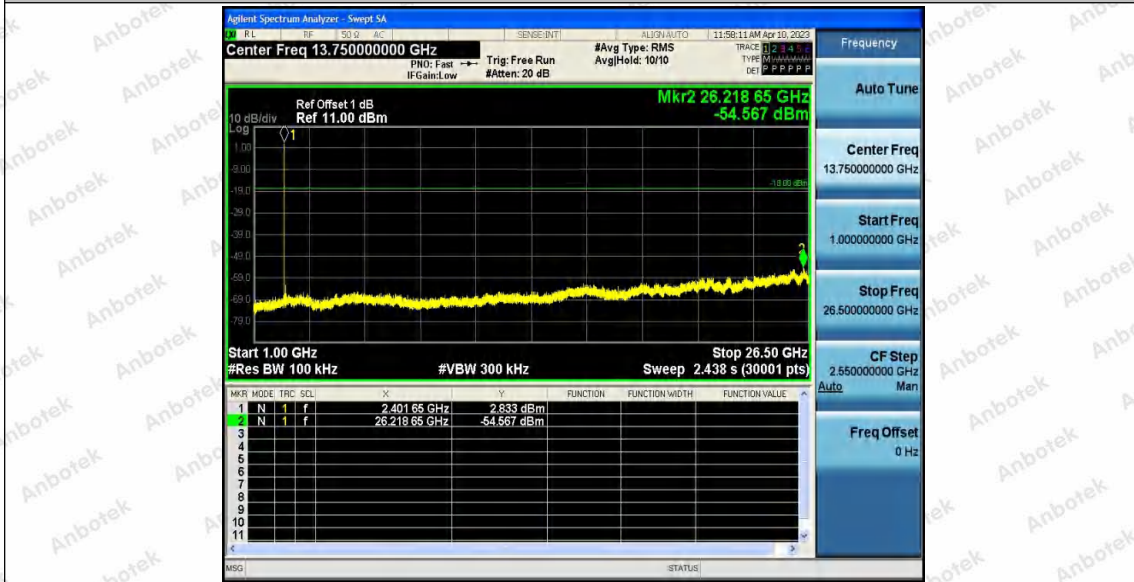
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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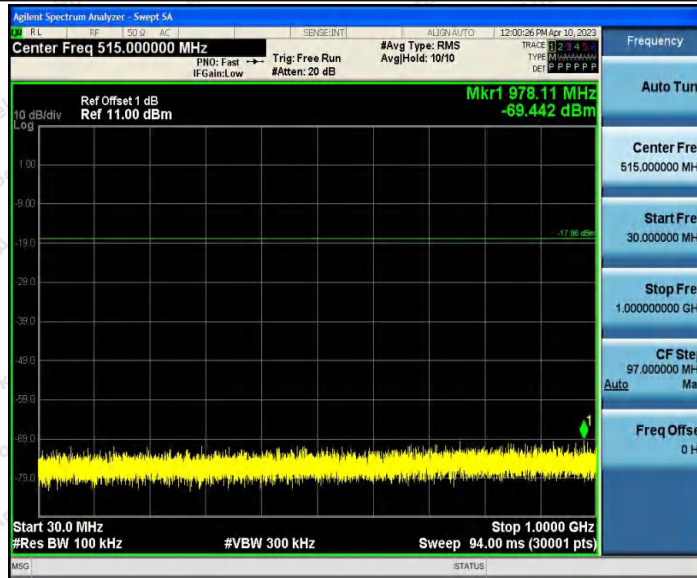
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BLE_2M_Ant1_2440_30~1000



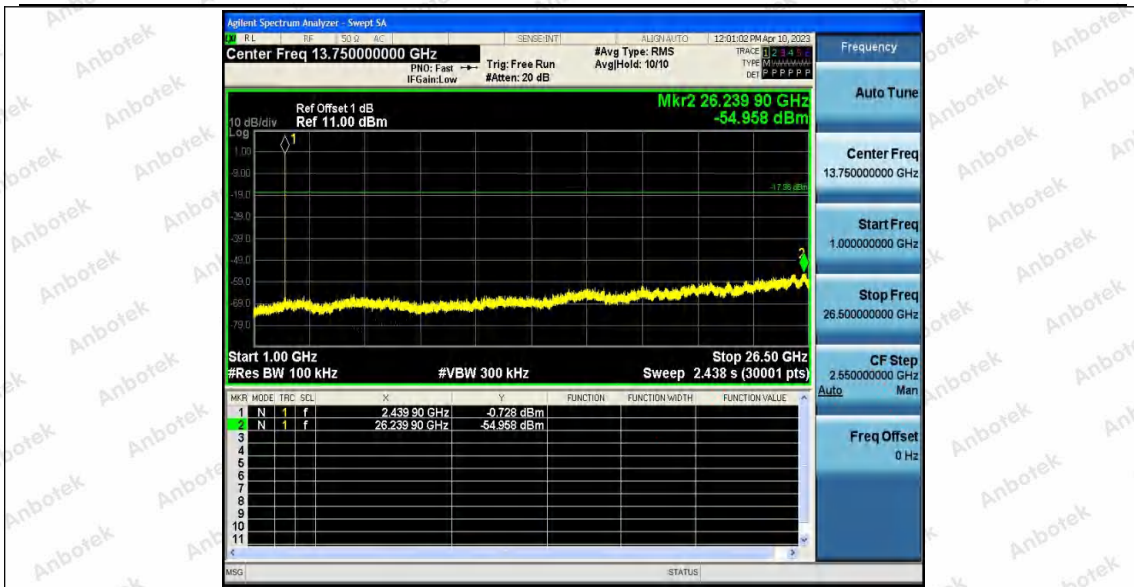
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



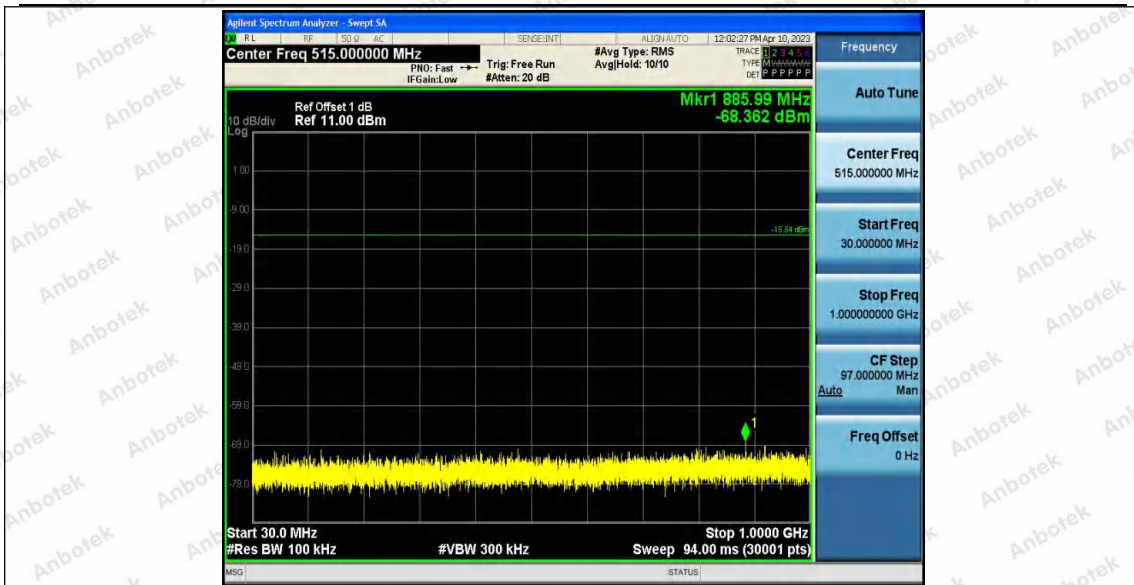
BLE_2M_Ant1_2480_30~1000

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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	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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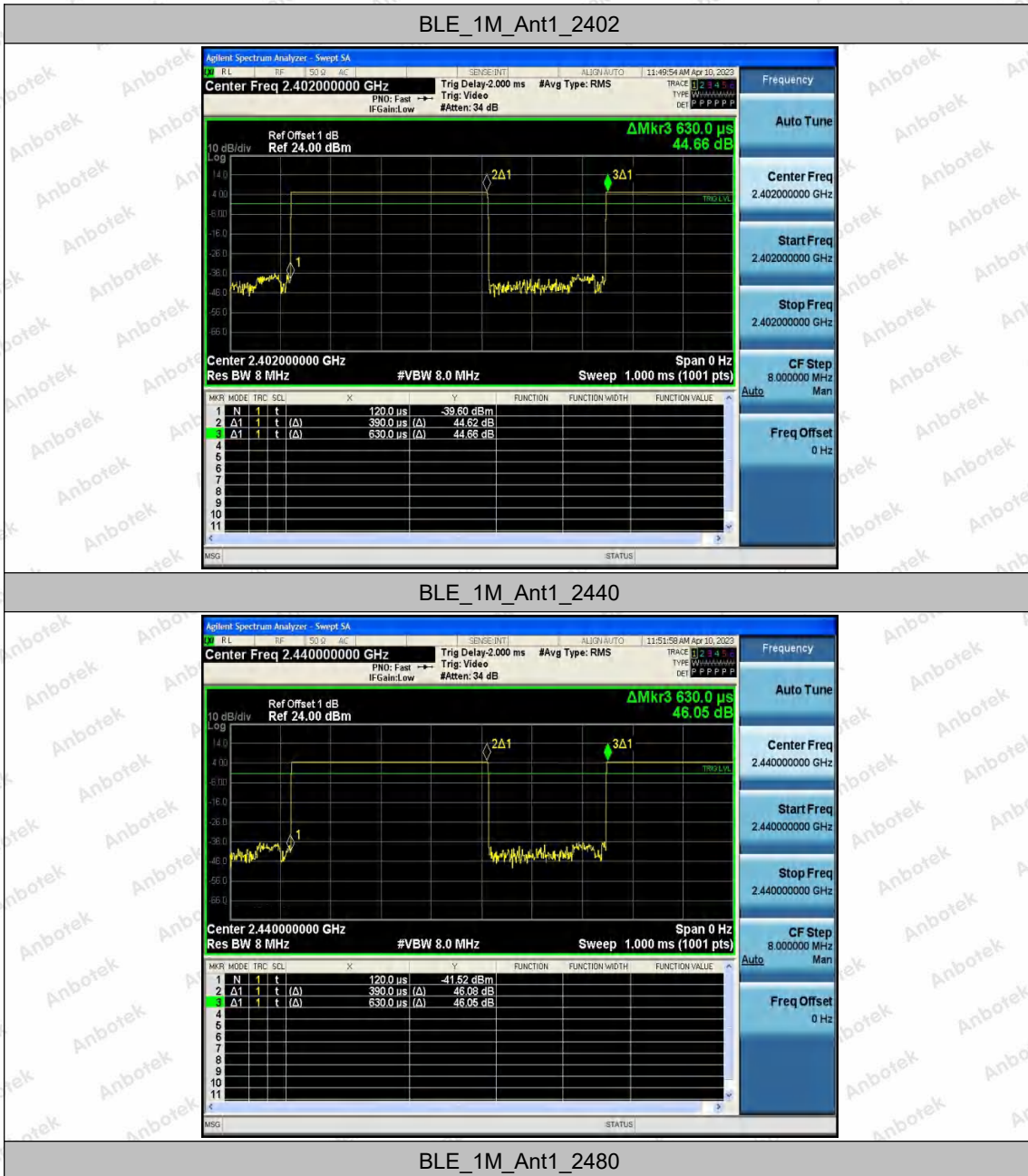
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Test Graphs



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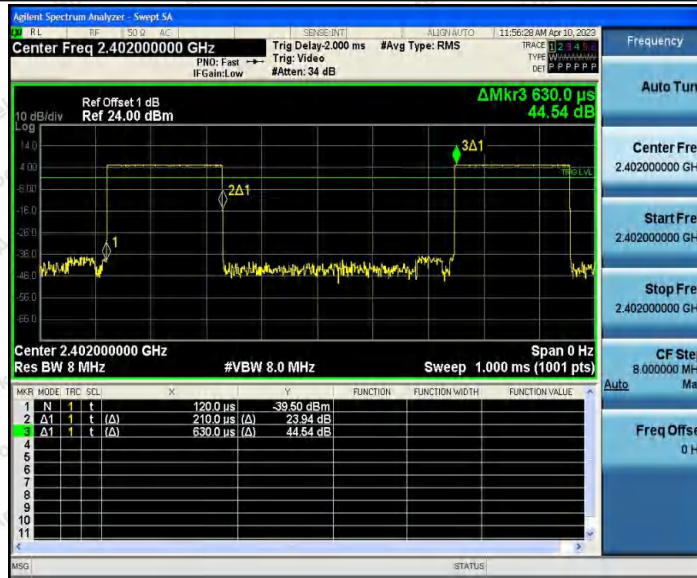
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BLE_2M_Ant1_2402



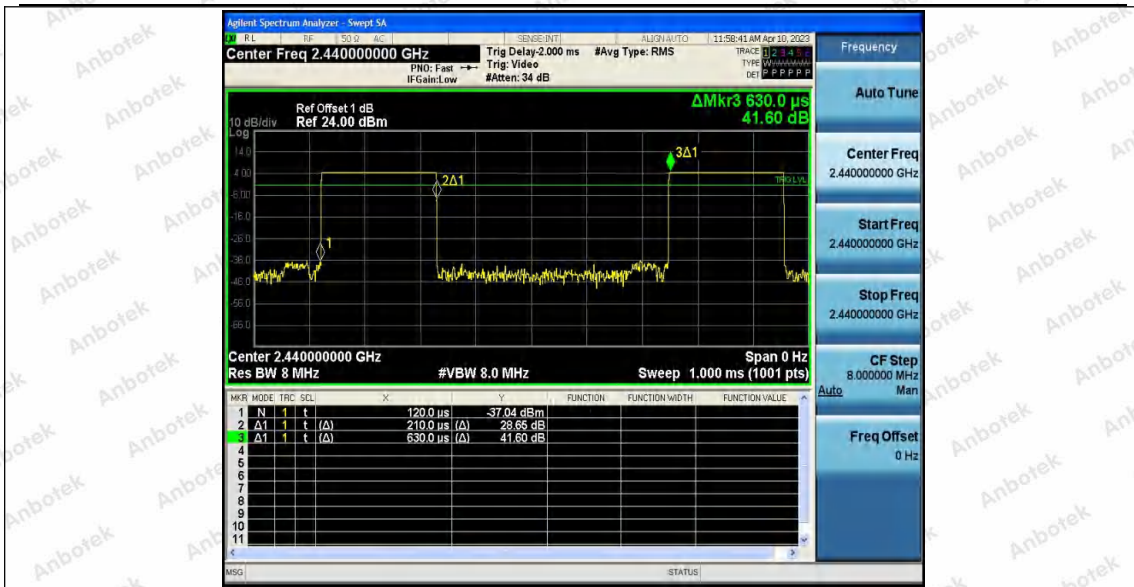
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



---End---

