

Appendix Test Data

Report No.:	18220WC30026501	Test Sample No.:	1-2-2
Start Test Date:	2023.02.22	Finish Test Date:	2023.04.06
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	25.5°C	Relative Humidity:	49%
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	2401.700	2402.364	0.5	PASS
		2440	0.660	2439.700	2440.360	0.5	PASS
		2480	0.696	2479.684	2480.380	0.5	PASS
BLE_2M	Ant1	2402	1.236	2401.428	2402.664	0.5	PASS
		2440	1.332	2439.380	2440.712	0.5	PASS
		2480	1.252	2479.456	2480.708	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 Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0270	2401.5149	2402.5419
		2440	1.0240	2439.5130	2440.5370
		2480	1.0269	2479.5100	2480.5369
BLE_2M	Ant1	2402	2.0107	2401.0139	2403.0246
		2440	2.0504	2439.0026	2441.0530
		2480	2.0576	2478.9864	2481.0440

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

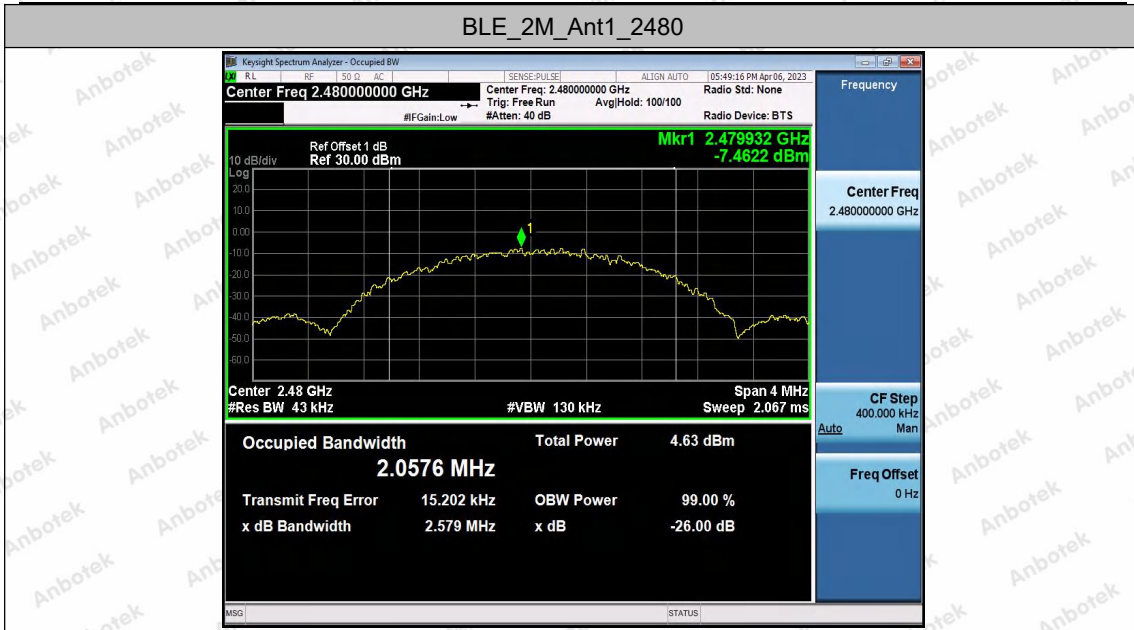


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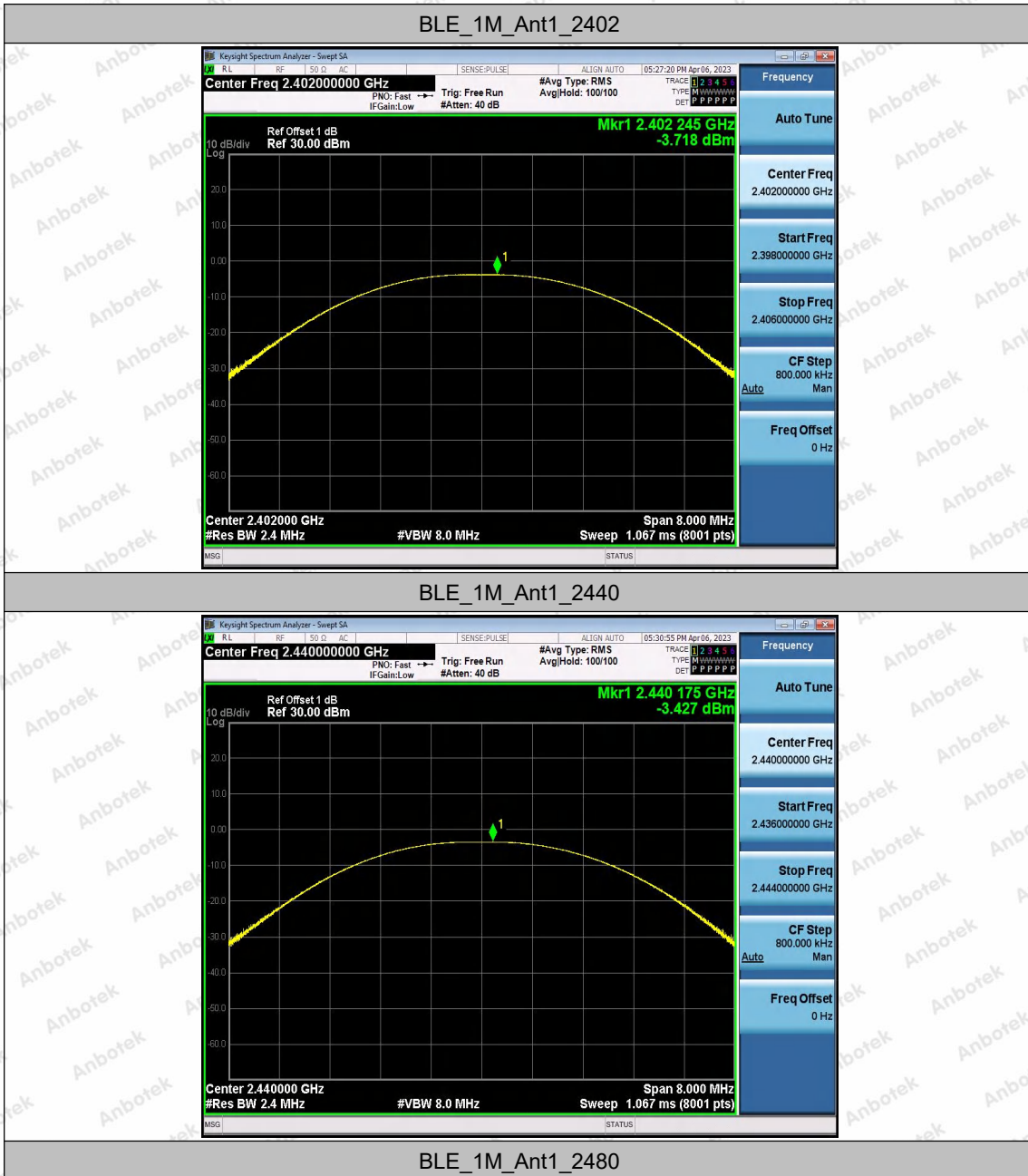
Appendix C: Conducted Peak Output Power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.72	≤30	PASS
		2440	-3.43	≤30	PASS
		2480	-3.09	≤30	PASS
BLE_2M	Ant1	2402	-3.67	≤30	PASS
		2440	-3.33	≤30	PASS
		2480	-2.92	≤30	PASS



Test Graphs Peak



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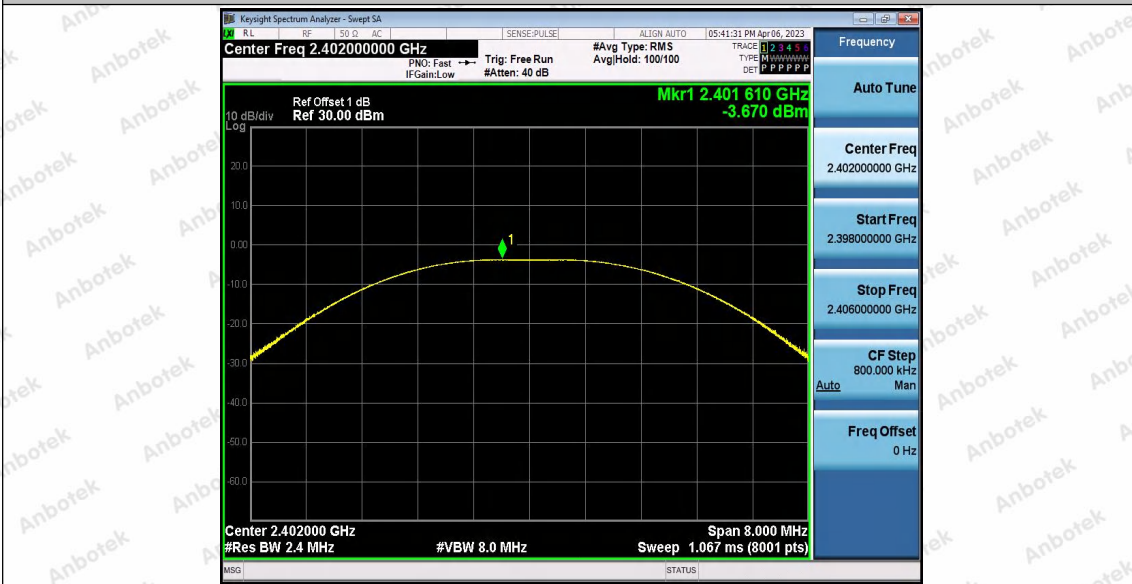
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

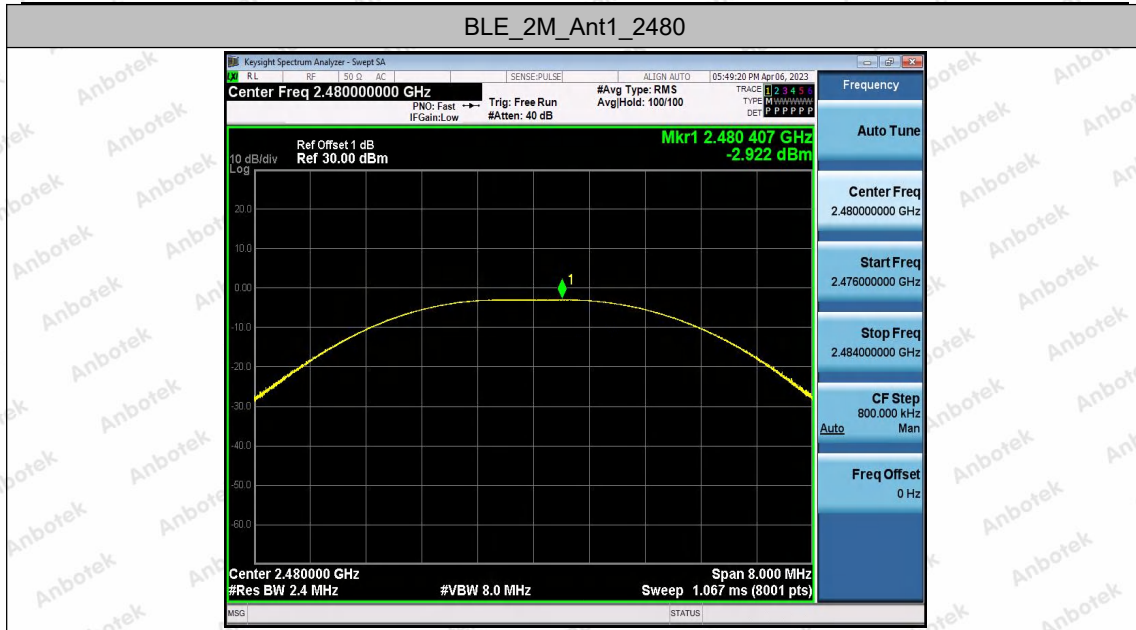


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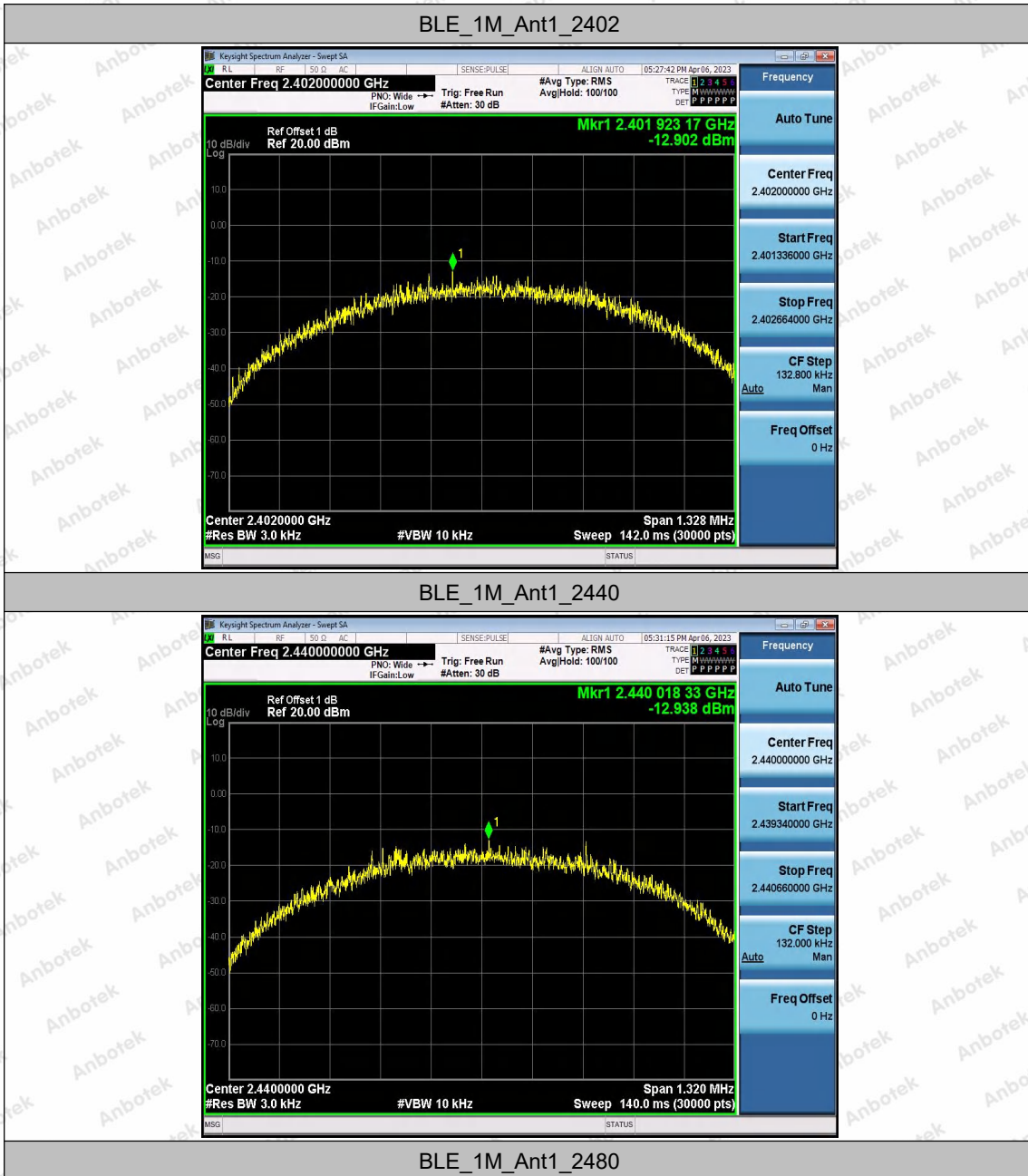
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.90	≤8.00	PASS
		2440	-12.94	≤8.00	PASS
		2480	-12.10	≤8.00	PASS
BLE_2M	Ant1	2402	-15.94	≤8.00	PASS
		2440	-16.06	≤8.00	PASS
		2480	-15.61	≤8.00	PASS



Test Graphs



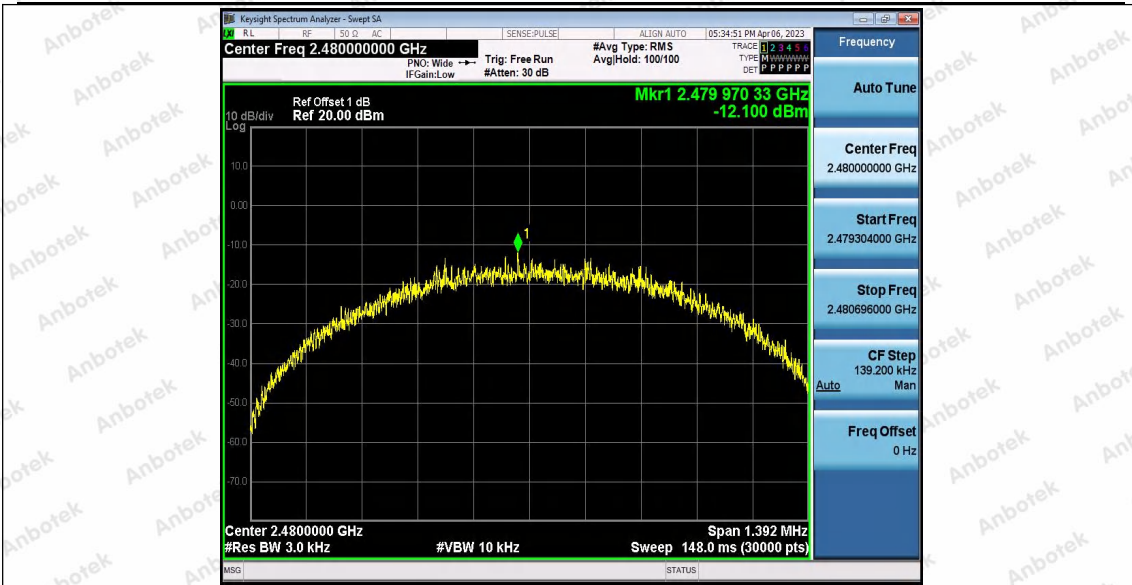
BLE_1M_Ant1_2480

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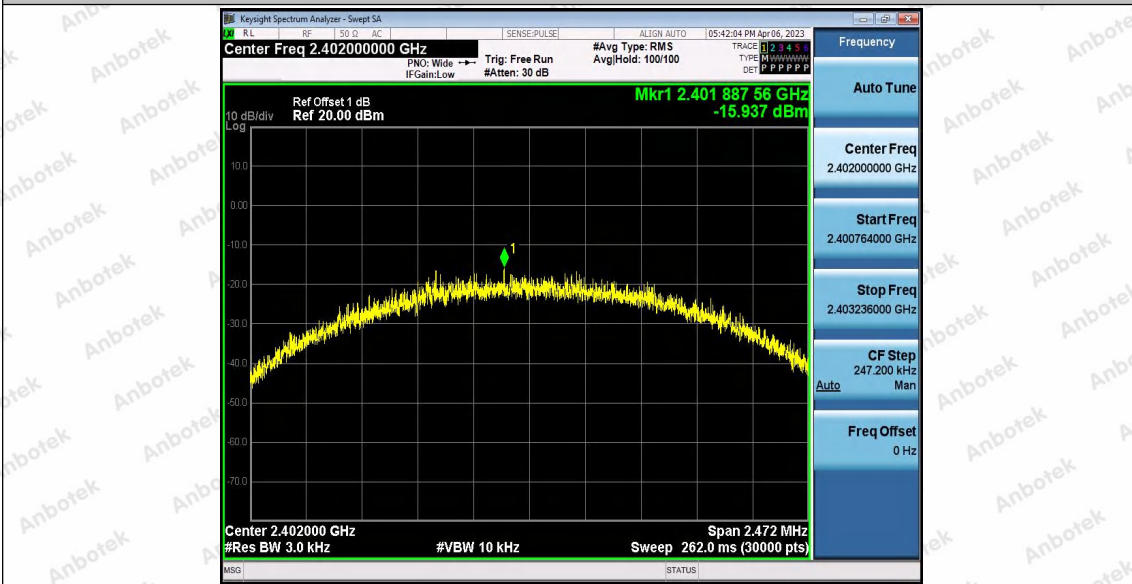
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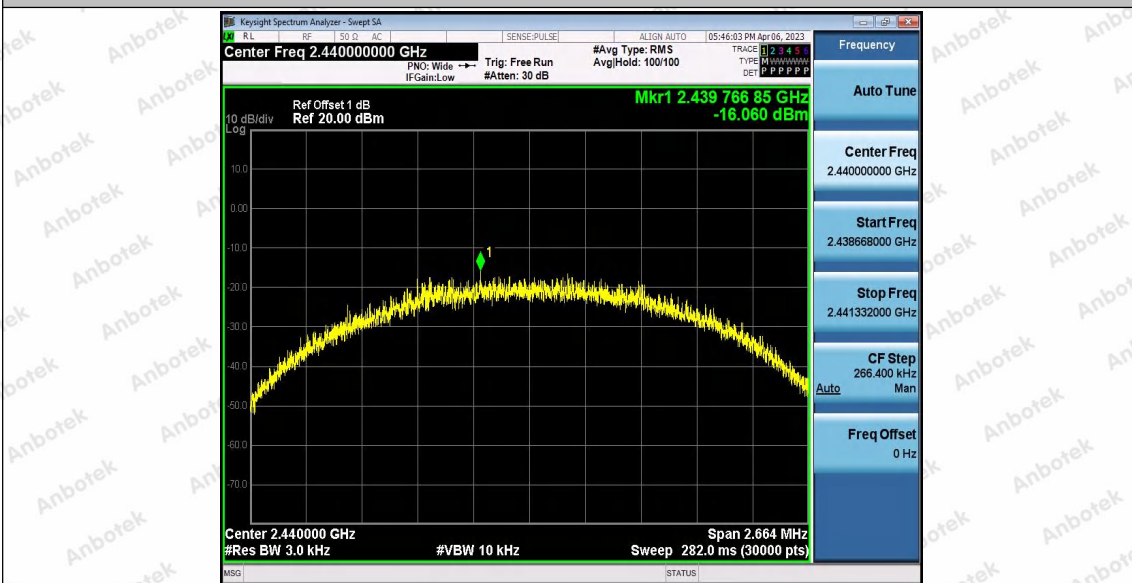




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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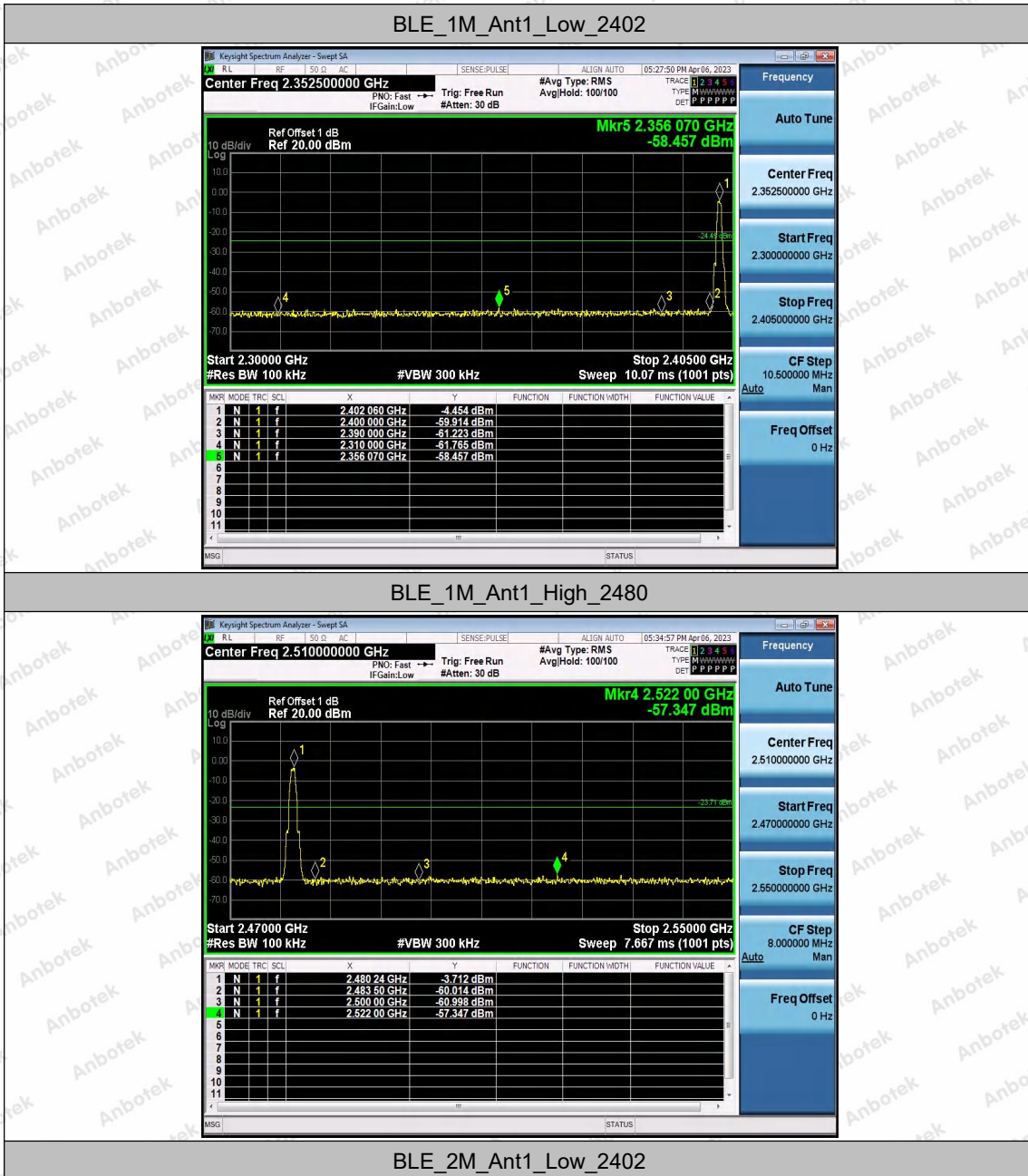
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.45	-58.46	≤-24.45	PASS
		High	2480	-3.71	-57.35	≤-23.71	PASS
BLE_2M	Ant1	Low	2402	-6.29	-40.14	≤-26.29	PASS
		High	2480	-4.98	-57.65	≤-24.98	PASS



Test Graphs

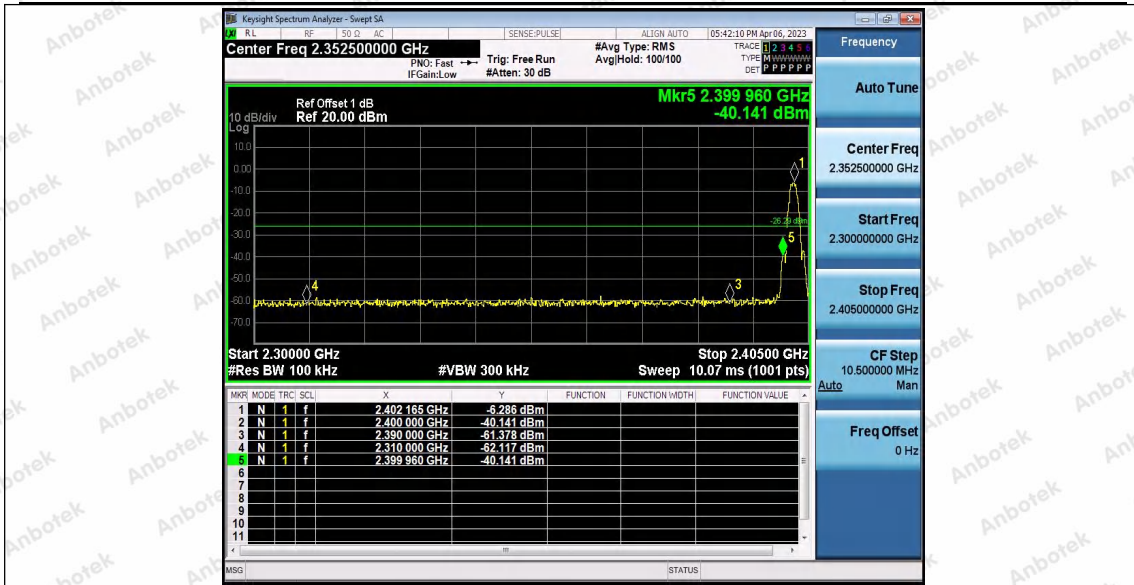


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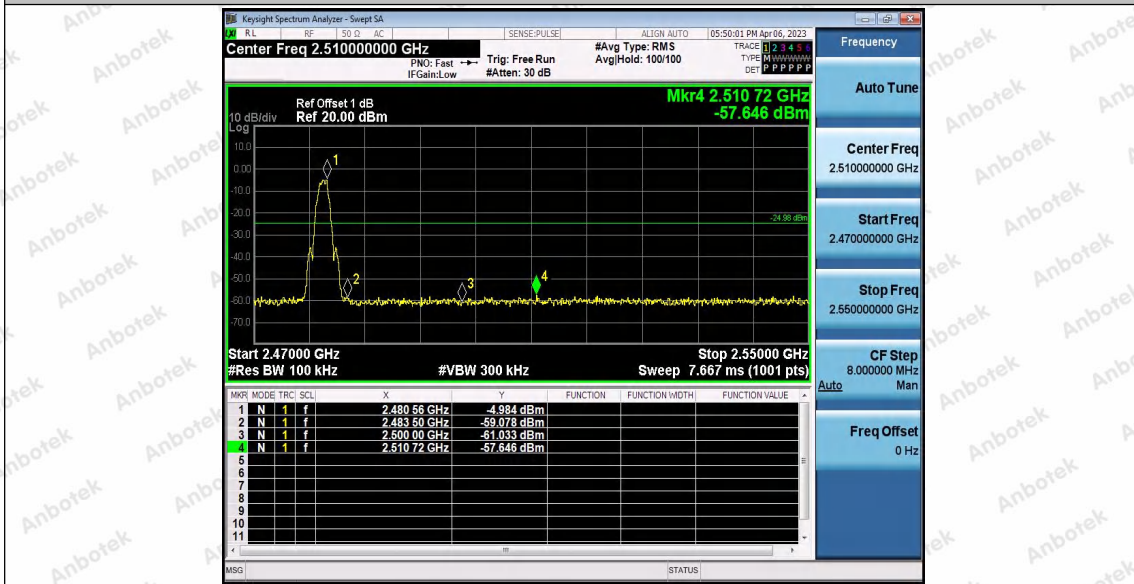
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BLE_2M_Ant1_High_2480



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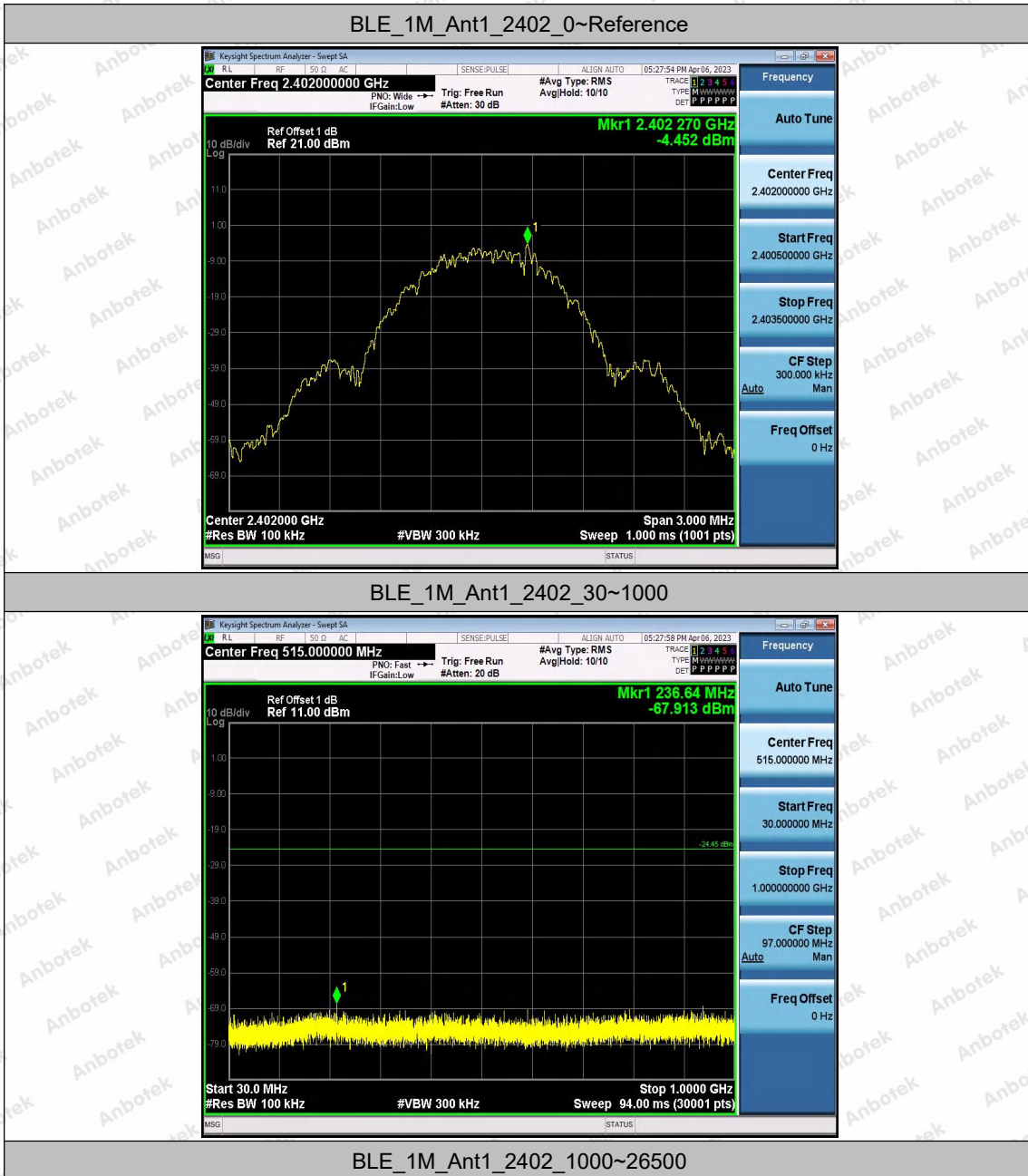
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.91	≤-24.45	PASS
			1000~26500	-4.45	-53.74	≤-24.45	PASS
		2440	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-68.2	≤-25.31	PASS
			1000~26500	-5.31	-52.05	≤-25.31	PASS
		2480	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-68.39	≤-23.8	PASS
			1000~26500	-3.80	-53.51	≤-23.8	PASS
BLE_2M	Ant1	2402	Reference	-6.78	-6.78	---	PASS
			30~1000	-6.78	-68.25	≤-26.78	PASS
			1000~26500	-6.78	-53.22	≤-26.78	PASS
		2440	Reference	-6.30	-6.30	---	PASS
			30~1000	-6.30	-68.92	≤-26.3	PASS
			1000~26500	-6.30	-52.37	≤-26.3	PASS
		2480	Reference	-6.63	-6.63	---	PASS
			30~1000	-6.63	-68.91	≤-26.63	PASS
			1000~26500	-6.63	-53.55	≤-26.63	PASS



Test Graphs

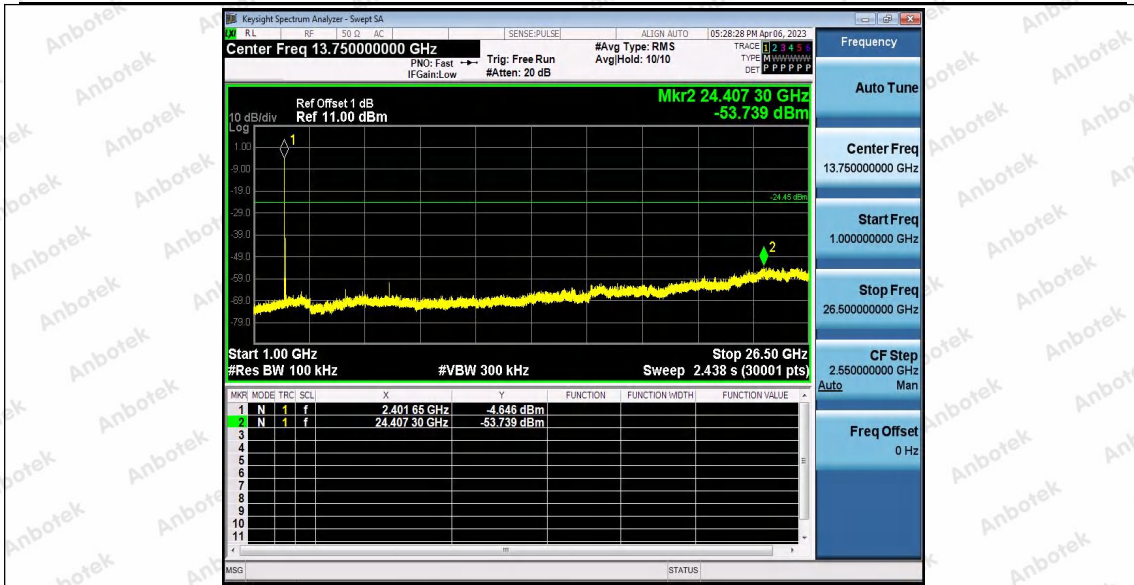


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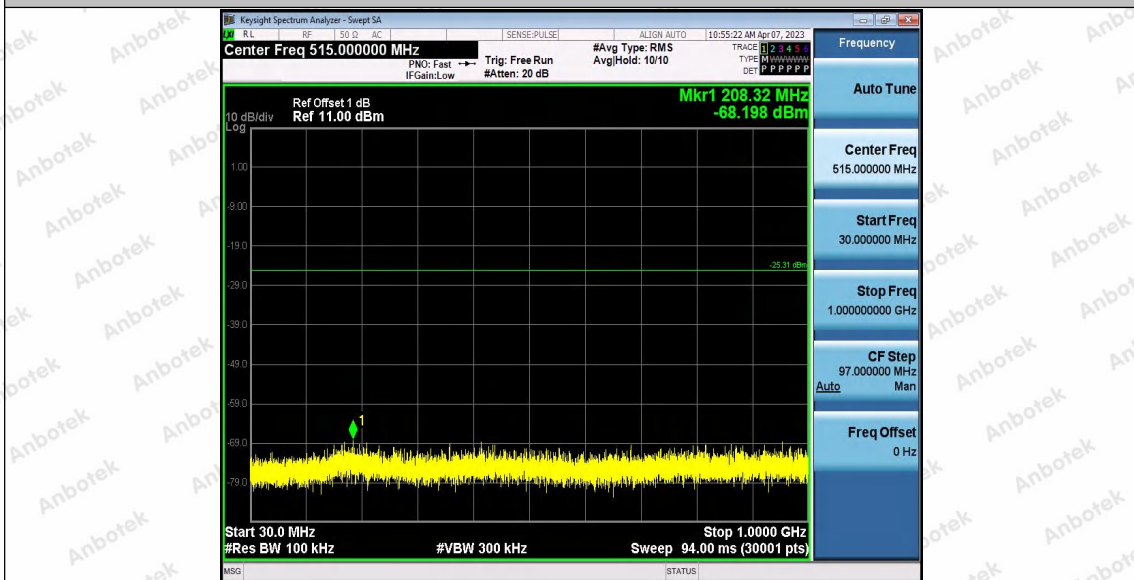




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

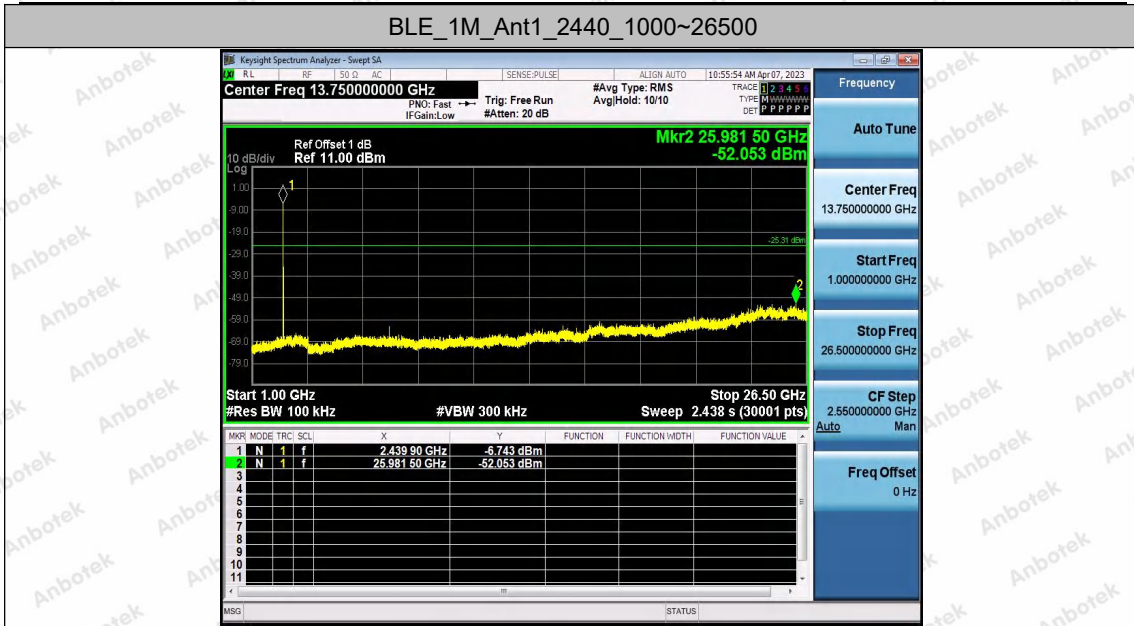


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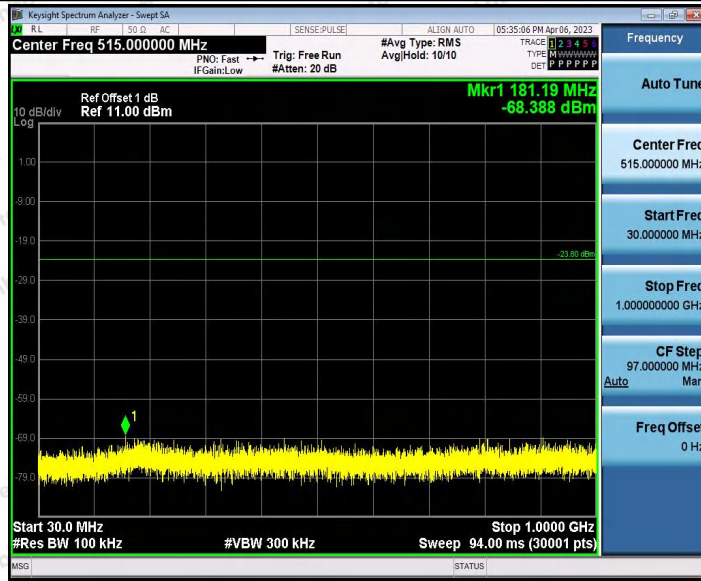
BLE_1M_Ant1_2480_30~1000

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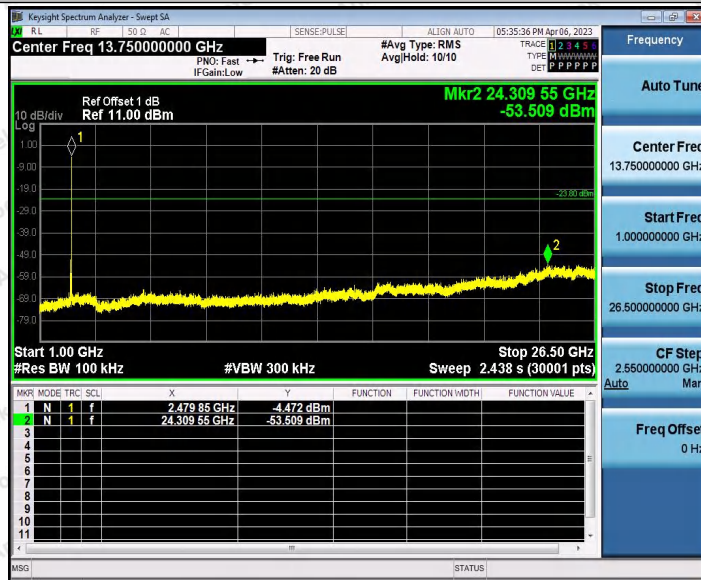
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

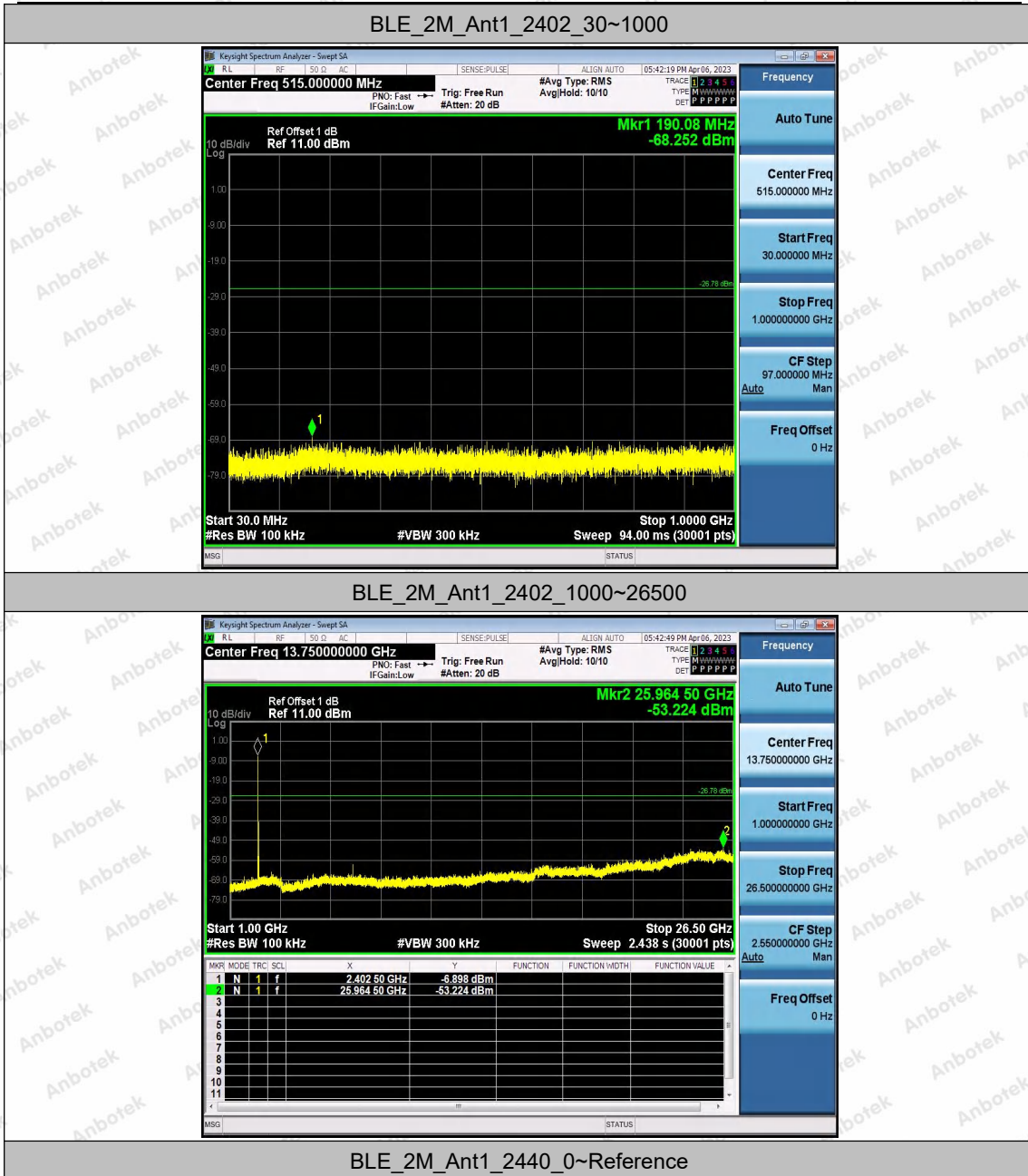


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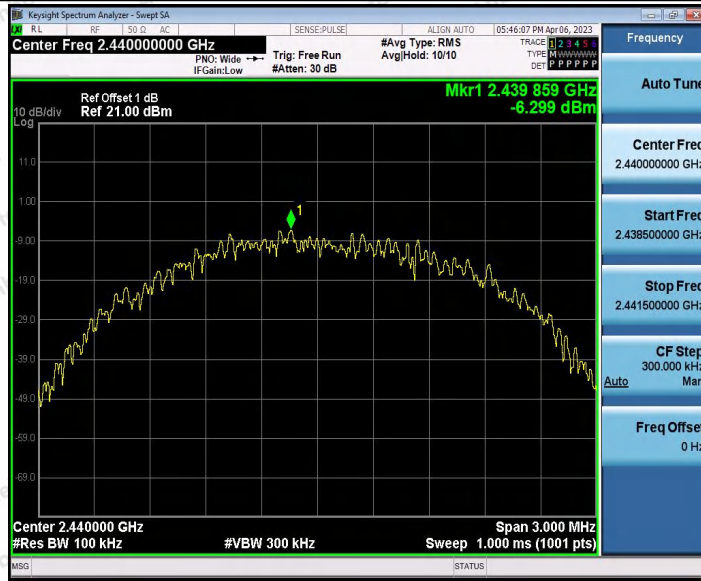


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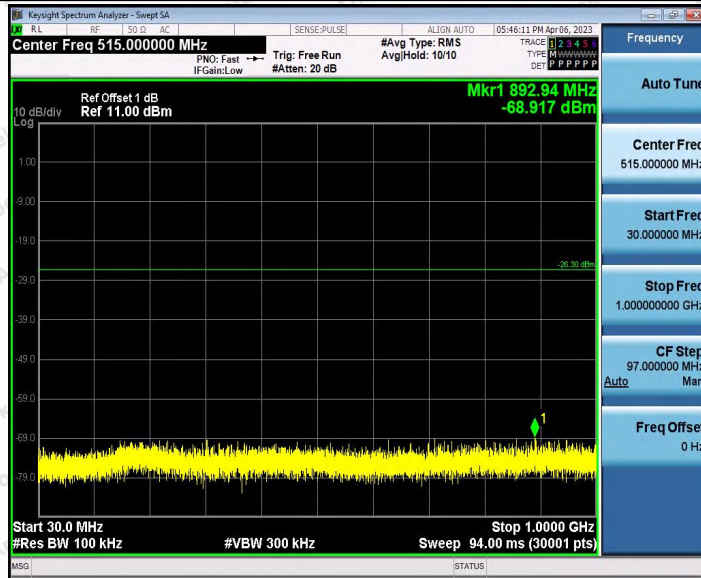
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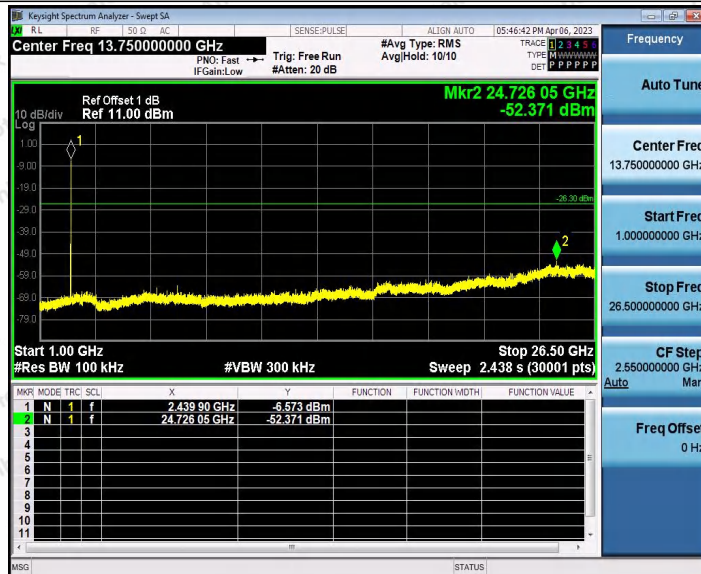




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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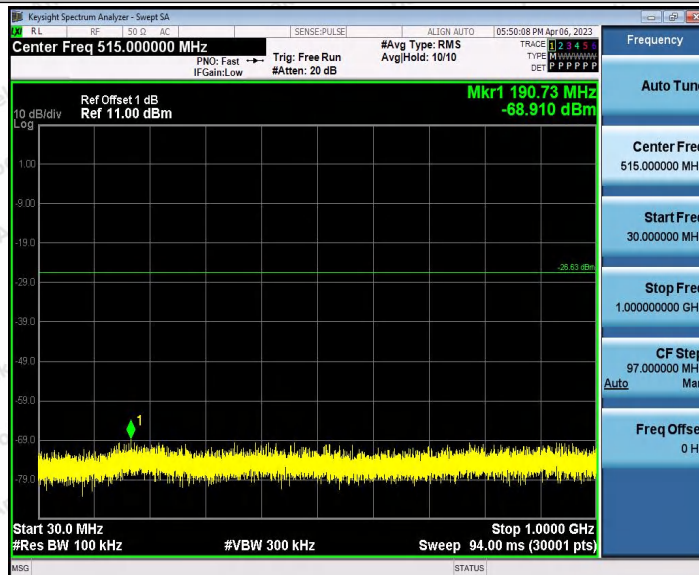
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



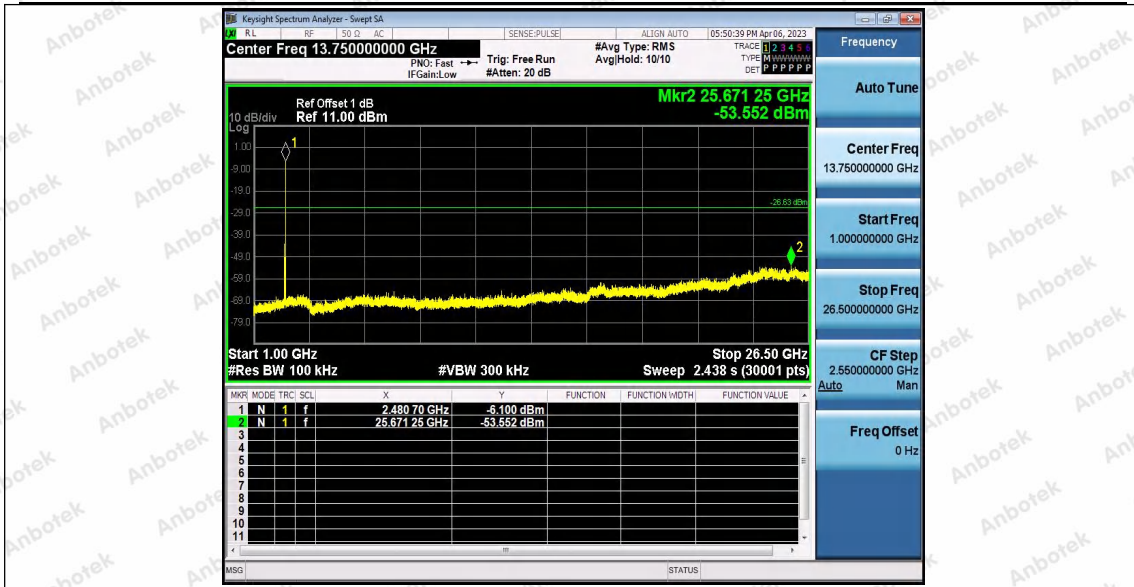
BLE_2M_Ant1_2480_1000~26500

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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00
BLE_2M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00

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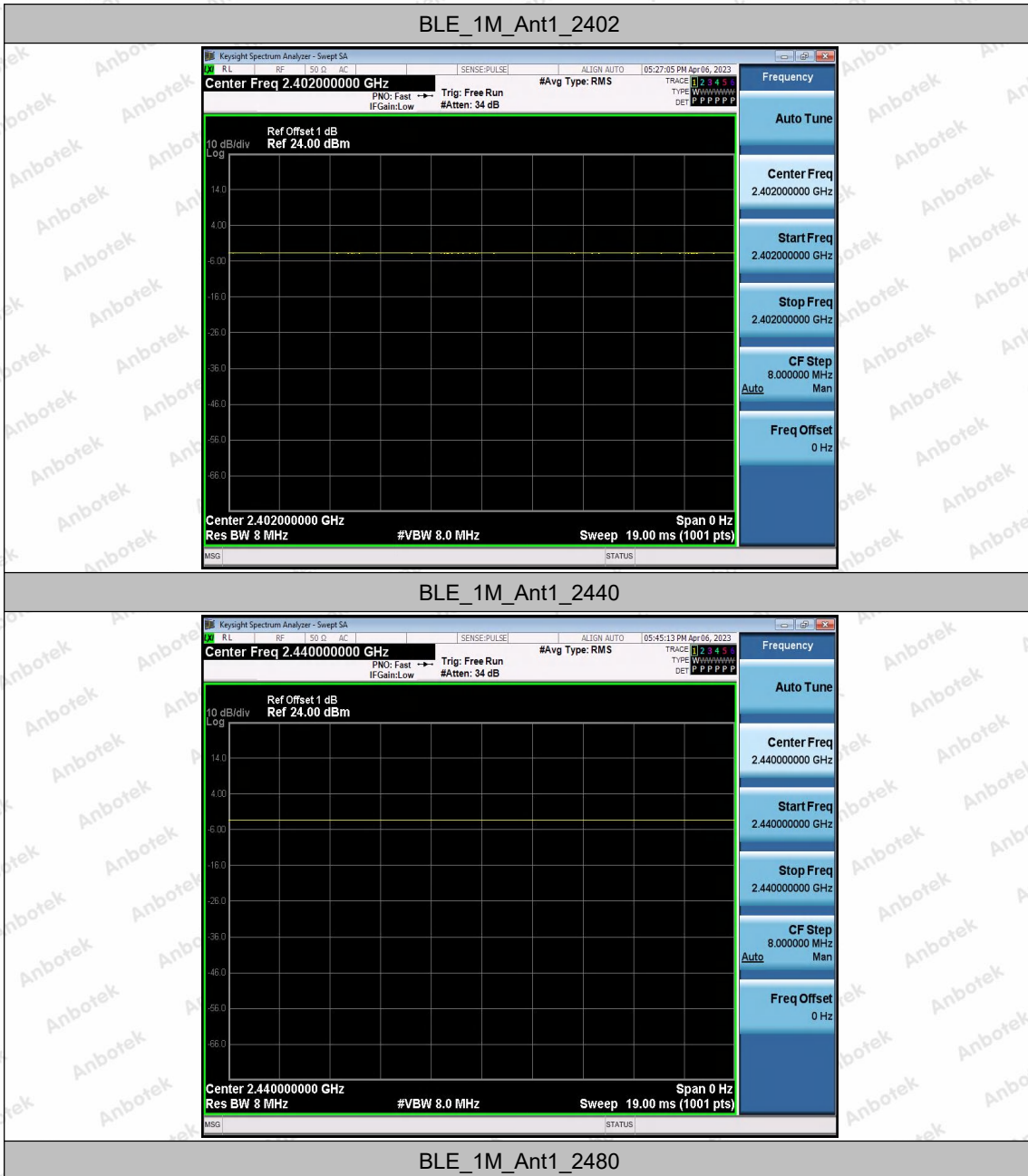
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Test Graphs

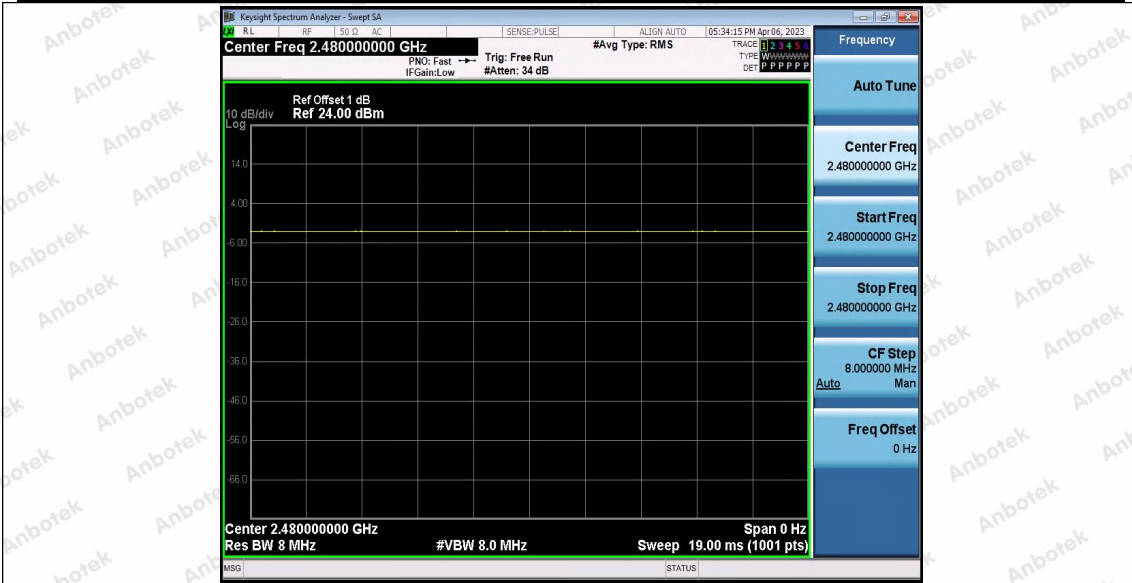


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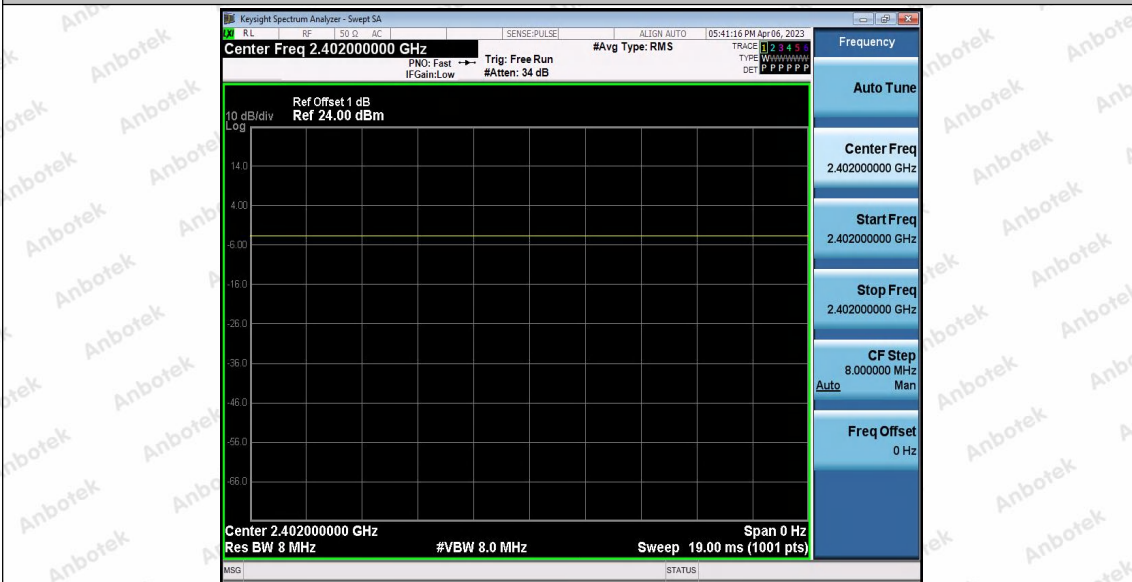
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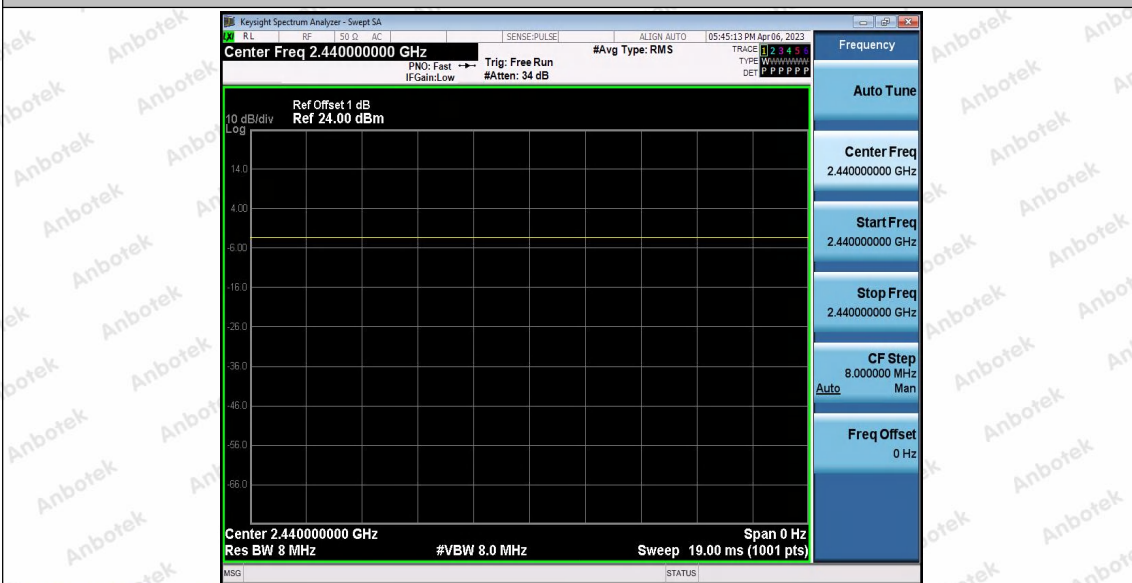




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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