

Appendix Test Data

Report No:	18220WC20274902	Test Sample NO:	1-2-2
Start Test Date:	2022.12.15	Finish Test Date:	2023.1.9
Test Engineer:	Jony.He	Auditor:	Edward.Pan
Temperature:	23.3°C	Relative Humidity:	48%
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	0.704	2401.652	2402.356	0.5	PASS
		2440	0.708	2439.648	2440.356	0.5	PASS
		2480	0.680	2479.664	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.136	2401.440	2402.576	0.5	PASS
		2440	1.176	2439.420	2440.596	0.5	PASS
		2480	1.144	2479.420	2480.564	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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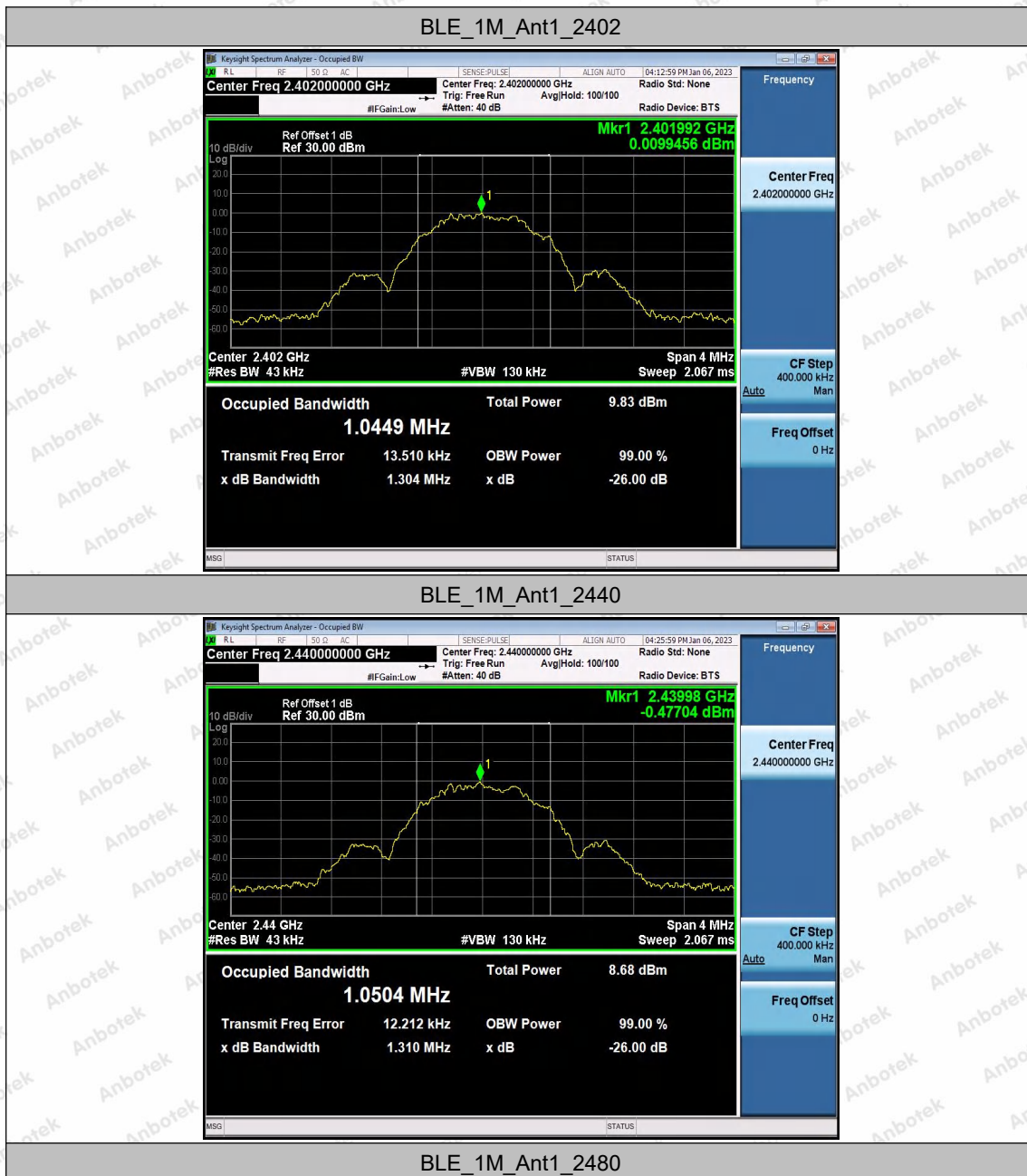
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0449	2401.4911	2402.5360
		2440	1.0504	2439.4870	2440.5374
		2480	1.0438	2479.4899	2480.5337
BLE_2M	Ant1	2402	2.0795	2400.9876	2403.0671
		2440	2.0729	2438.9906	2441.0635
		2480	2.0719	2478.9862	2481.0581



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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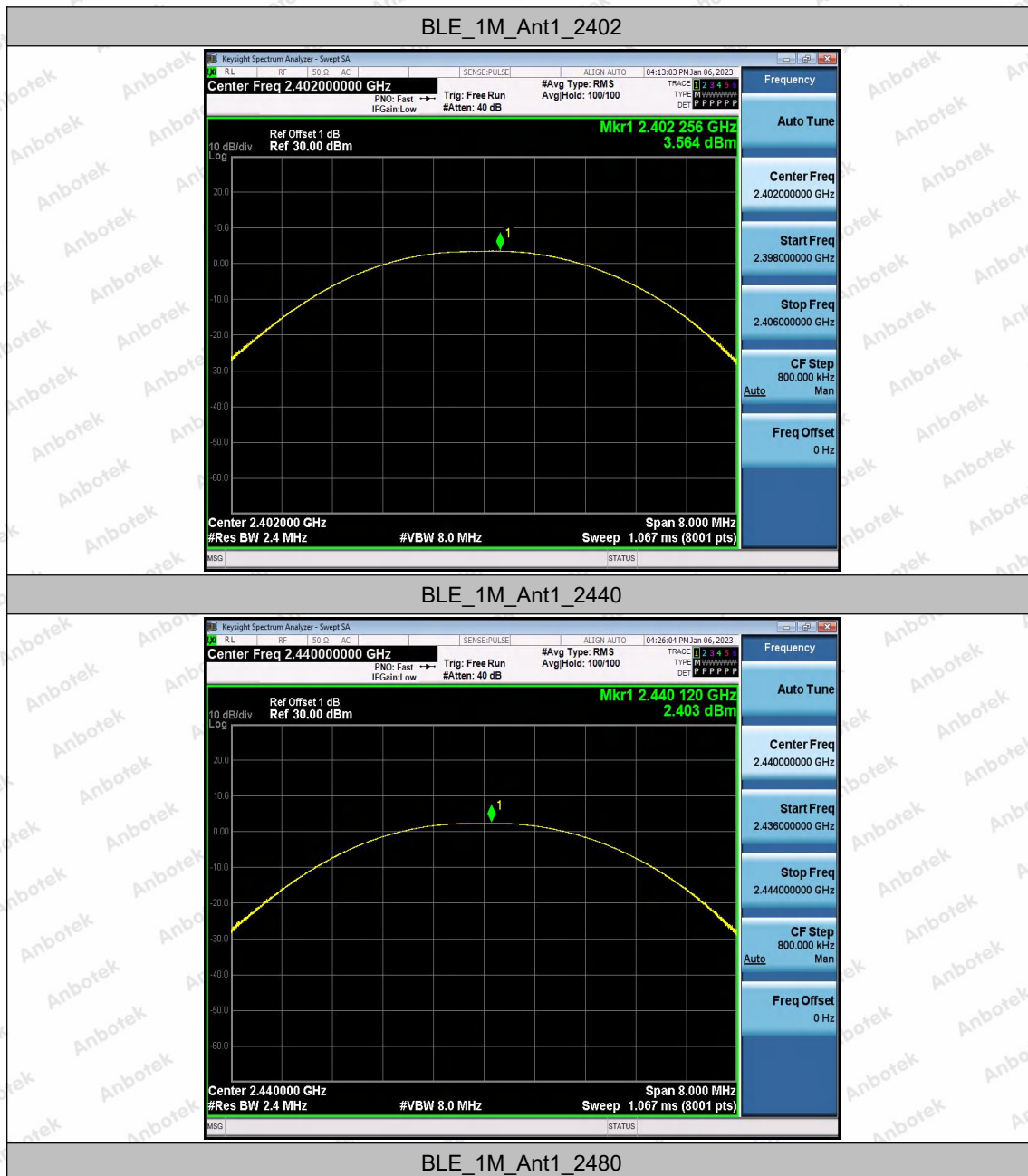
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.56	≤30	PASS
		2440	2.40	≤30	PASS
		2480	2.02	≤30	PASS
BLE_2M	Ant1	2402	3.49	≤30	PASS
		2440	2.47	≤30	PASS
		2480	2.09	≤30	PASS



Test Graphs Peak



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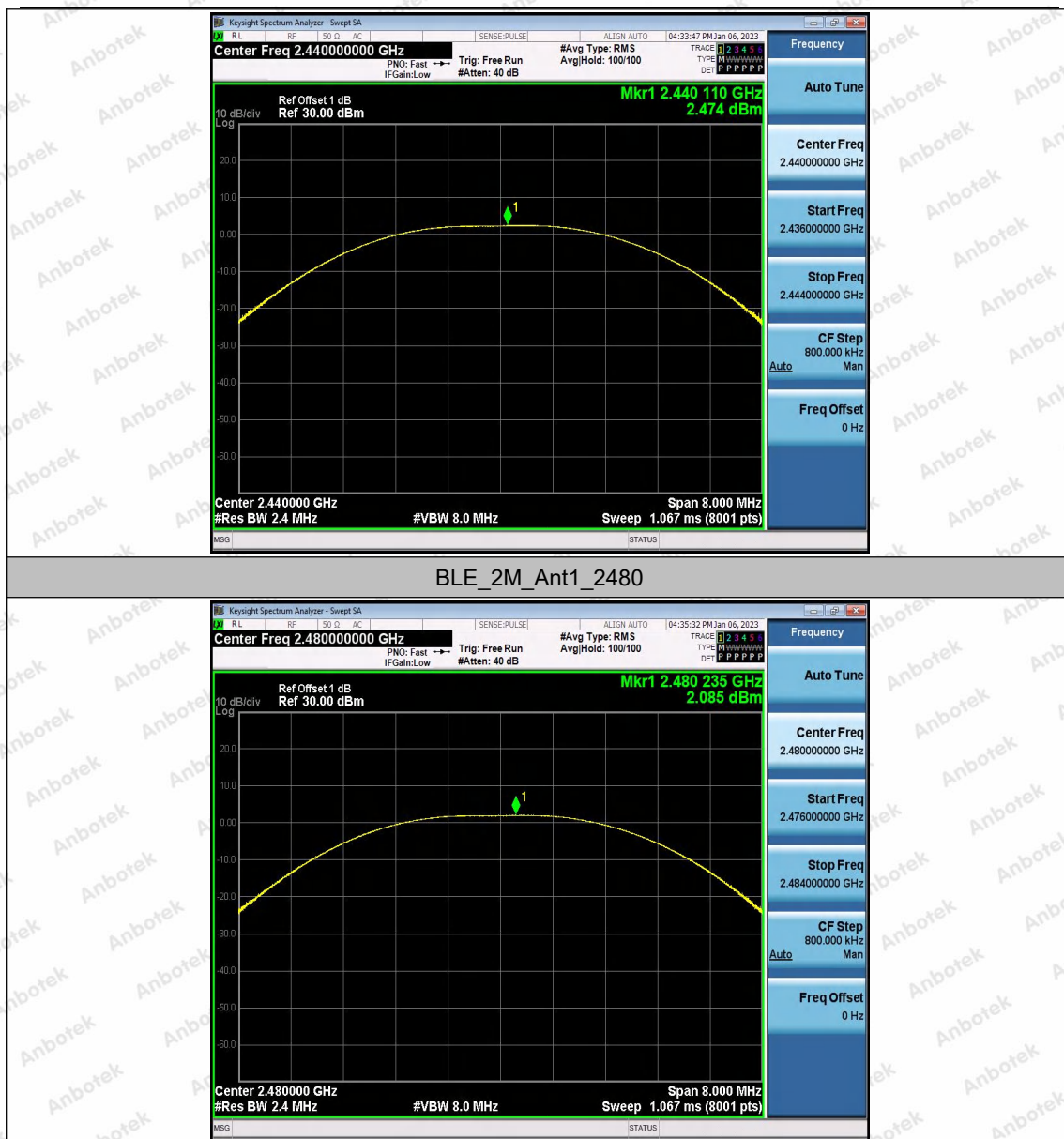
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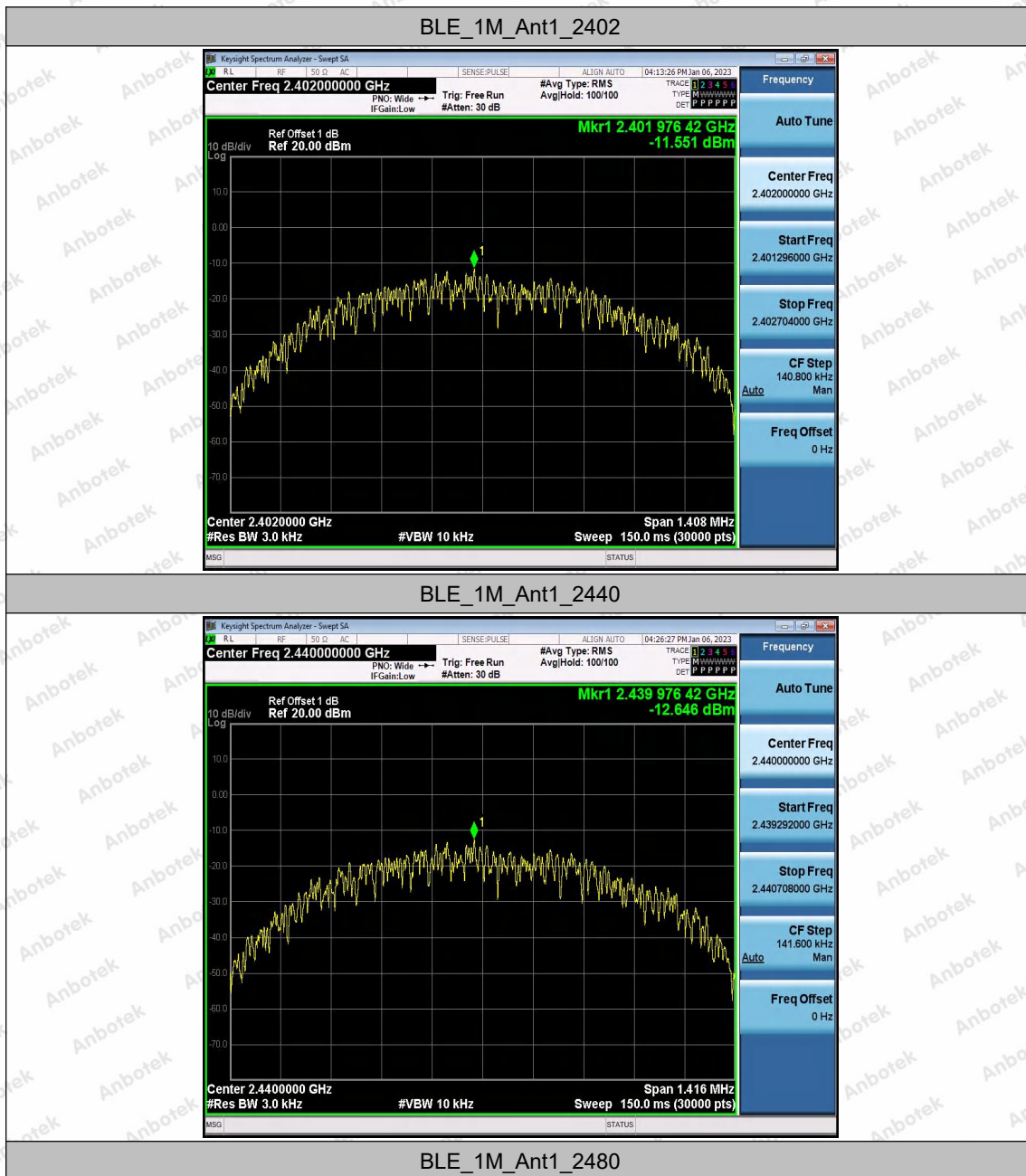
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.55	≤8.00	PASS
		2440	-12.65	≤8.00	PASS
		2480	-12.99	≤8.00	PASS
BLE_2M	Ant1	2402	-13.86	≤8.00	PASS
		2440	-14.82	≤8.00	PASS
		2480	-15.19	≤8.00	PASS



Test Graphs



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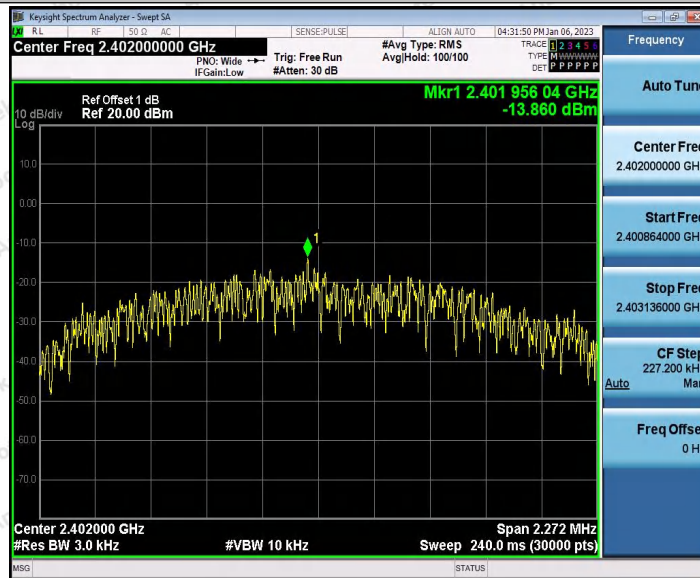


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

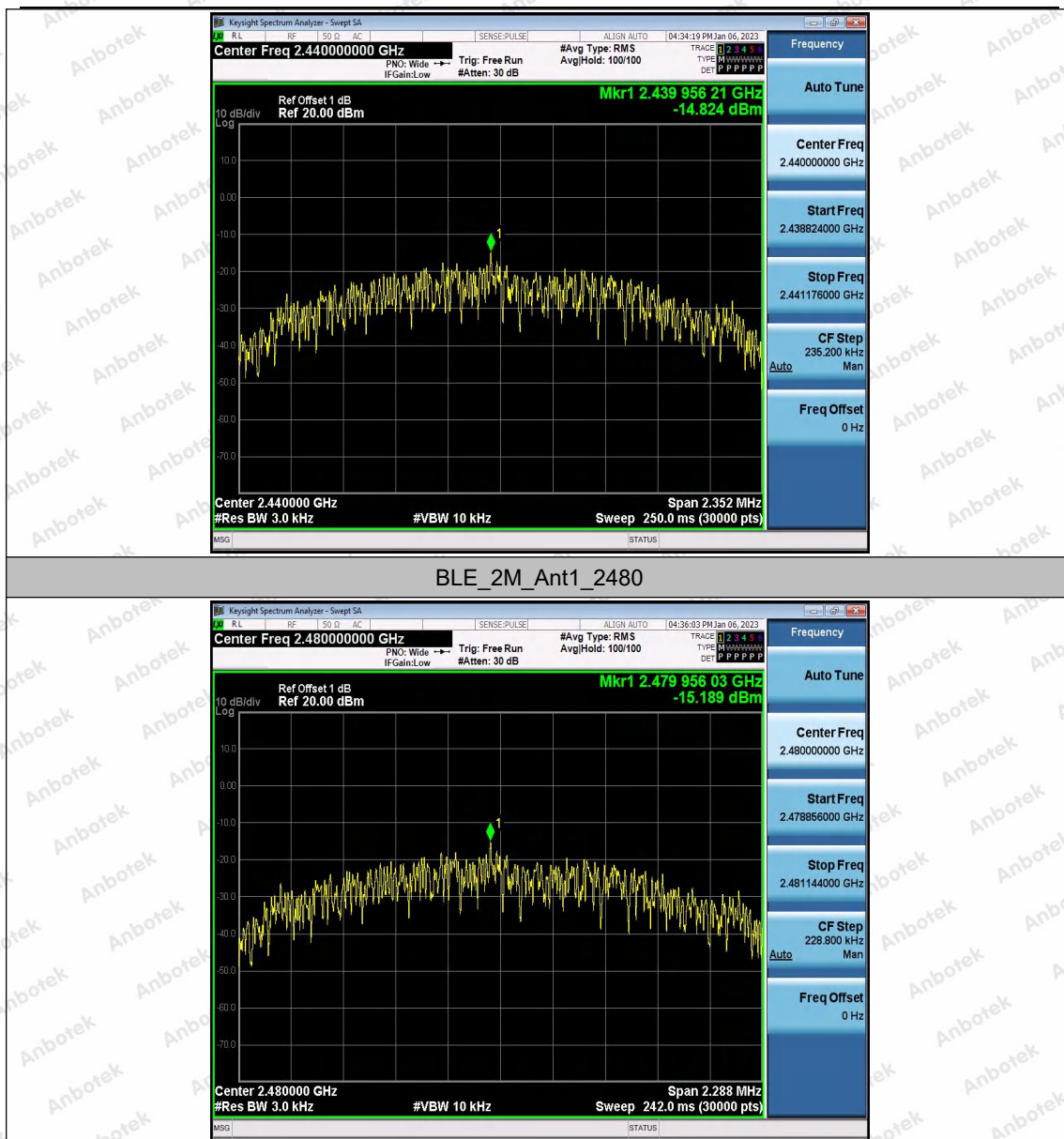
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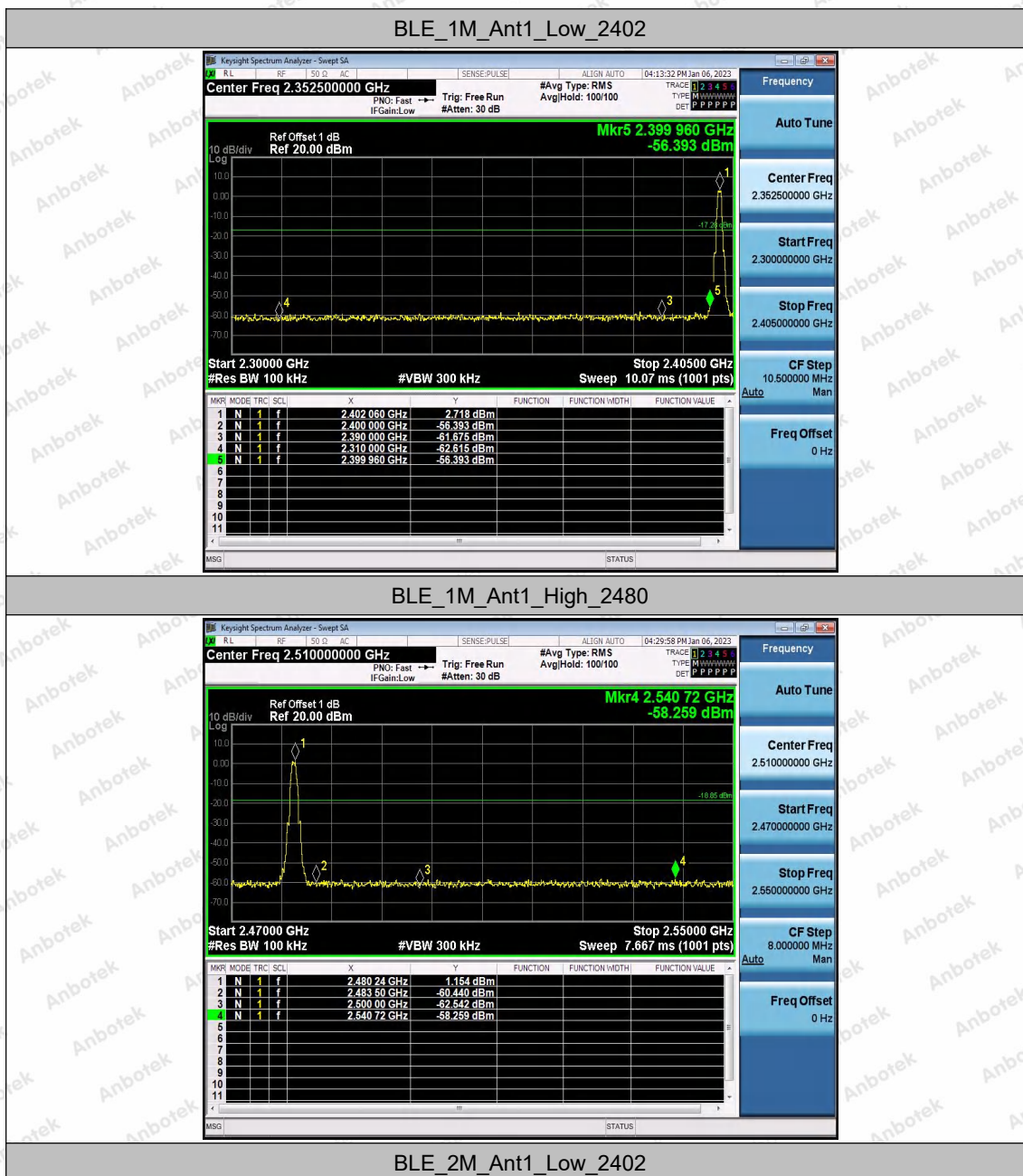
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.72	-56.39	≤-17.28	PASS
		High	2480	1.15	-58.26	≤-18.85	PASS
BLE_2M	Ant1	Low	2402	1.67	-29.41	≤-18.33	PASS
		High	2480	-1.20	-54.16	≤-21.2	PASS



Test Graphs



BLE_2M_Ant1_Low_2402

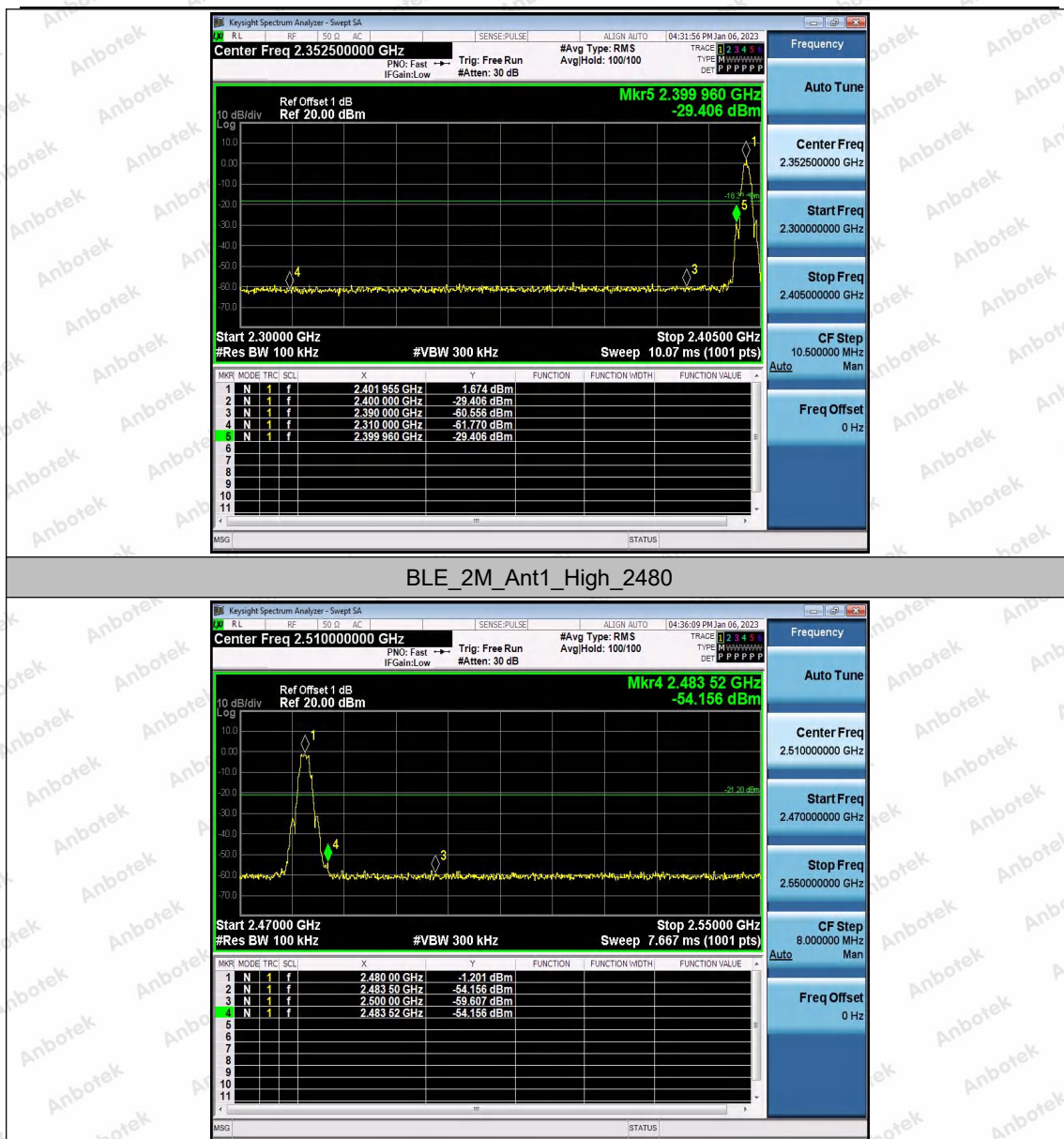
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-68.79	≤-17.35	PASS
			1000~26500	2.65	-51.35	≤-17.35	PASS
		2440	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-56.31	≤-18.71	PASS
			1000~26500	1.29	-52.67	≤-18.71	PASS
		2480	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-61	≤-19.05	PASS
			1000~26500	0.95	-53.58	≤-19.05	PASS
BLE_2M	Ant1	2402	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-62.17	≤-18.53	PASS
			1000~26500	1.47	-53.25	≤-18.53	PASS
		2440	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-61.57	≤-20.14	PASS
			1000~26500	-0.14	-53.07	≤-20.14	PASS
		2480	Reference	-0.32	-0.32	---	PASS
			30~1000	-0.32	-62.44	≤-20.32	PASS
			1000~26500	-0.32	-52.67	≤-20.32	PASS

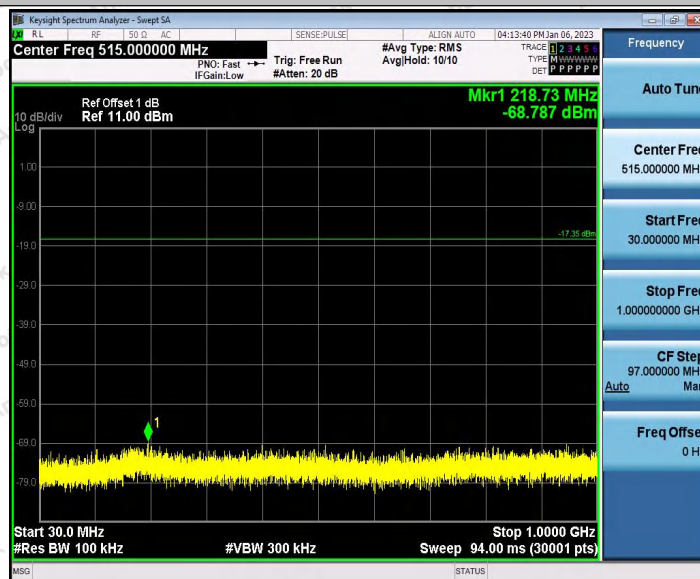


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

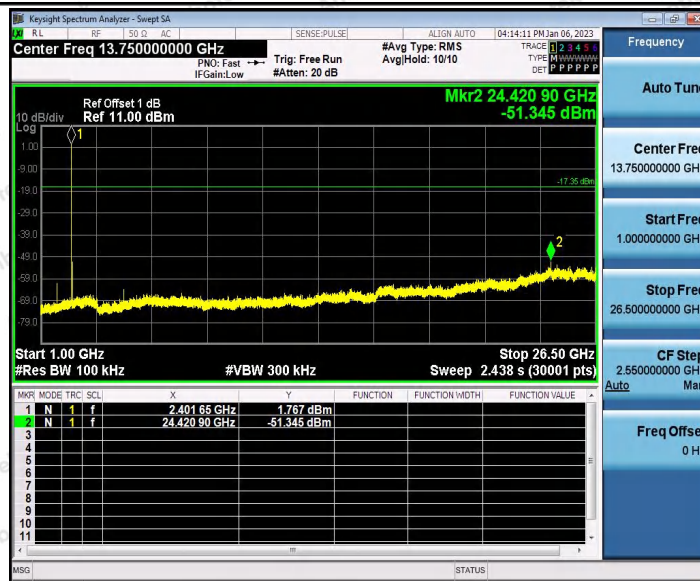
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

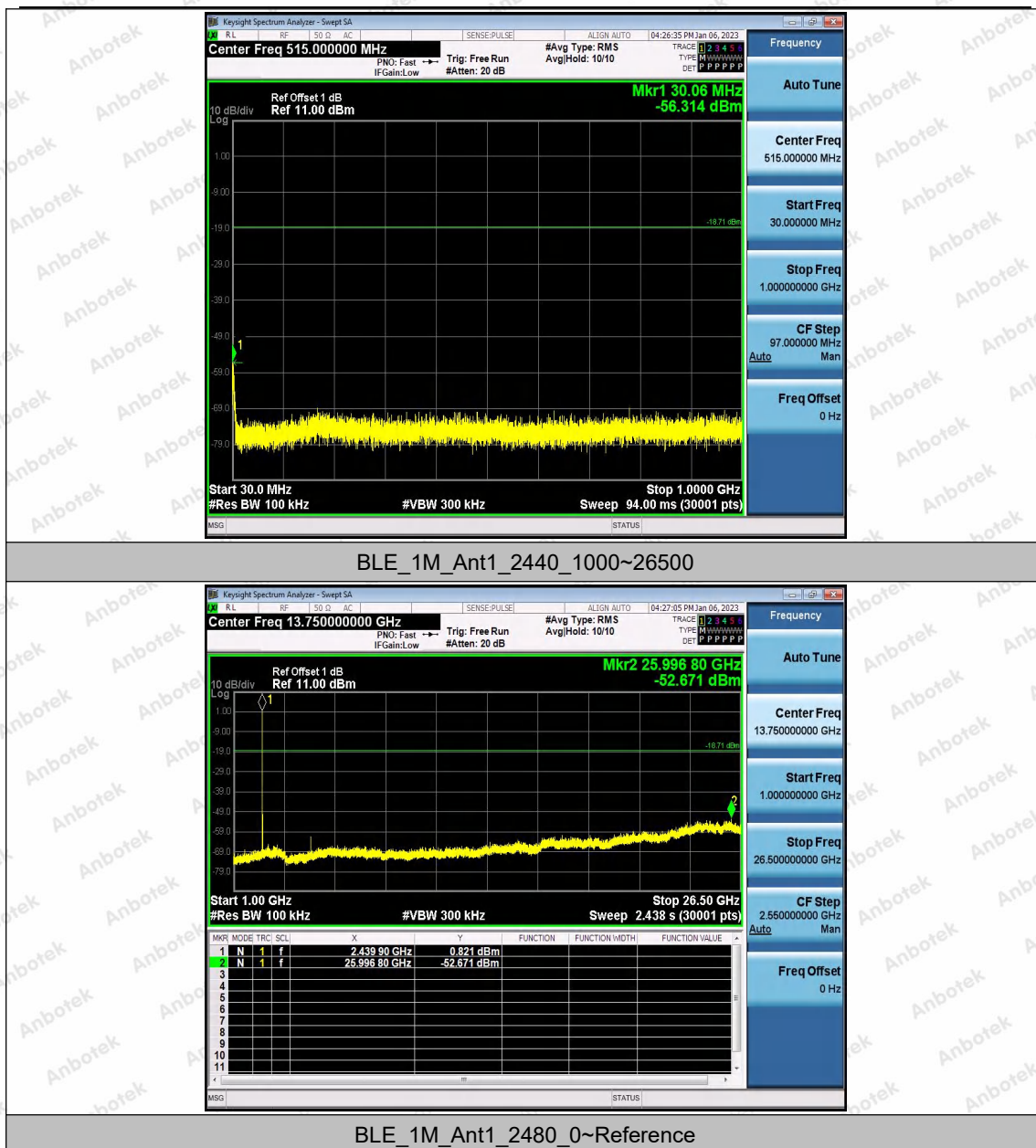
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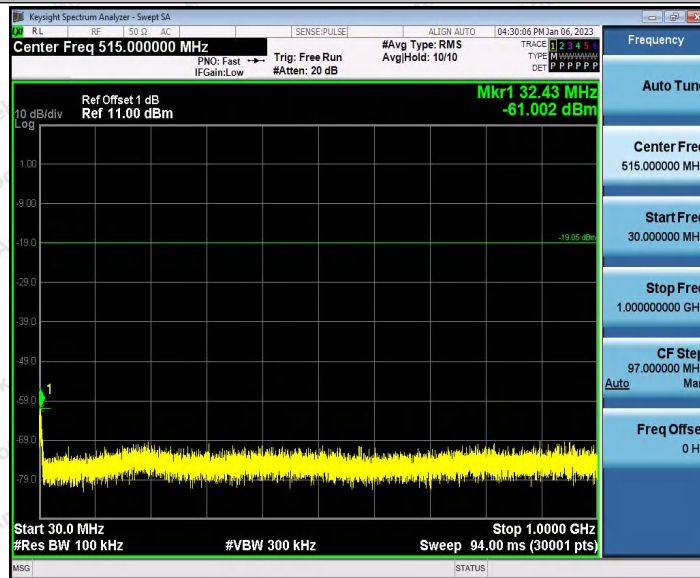


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

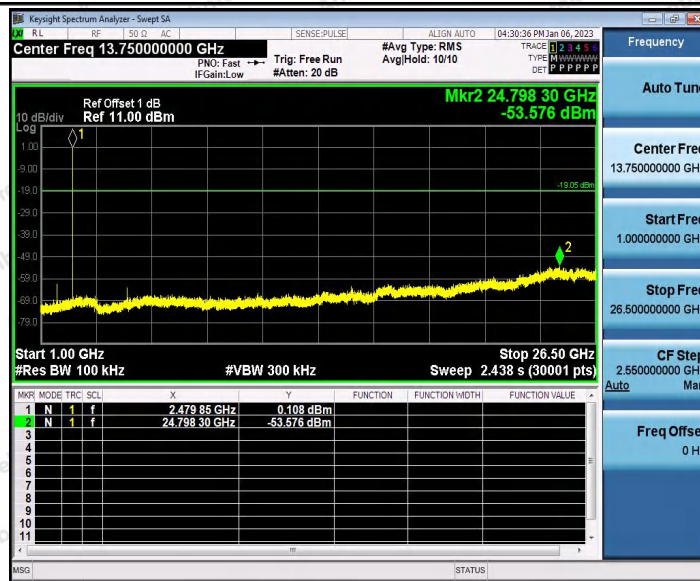
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

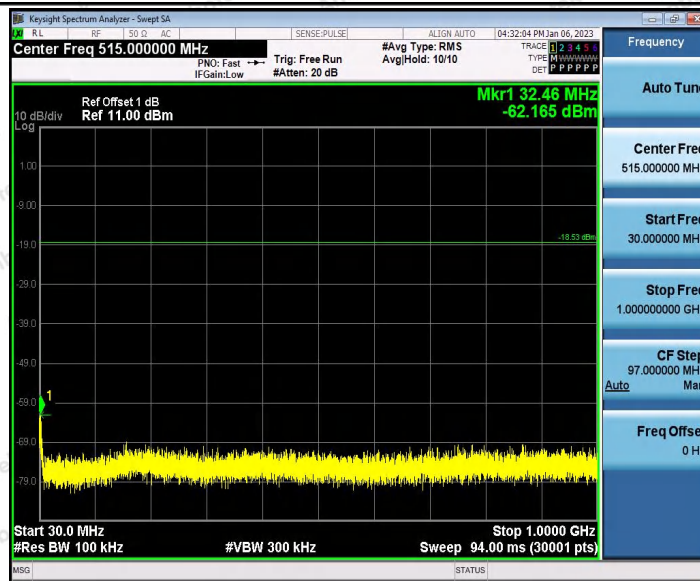
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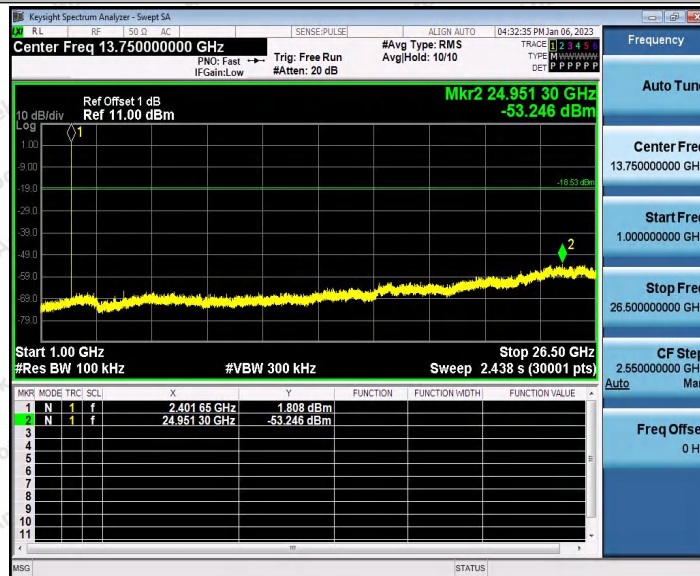


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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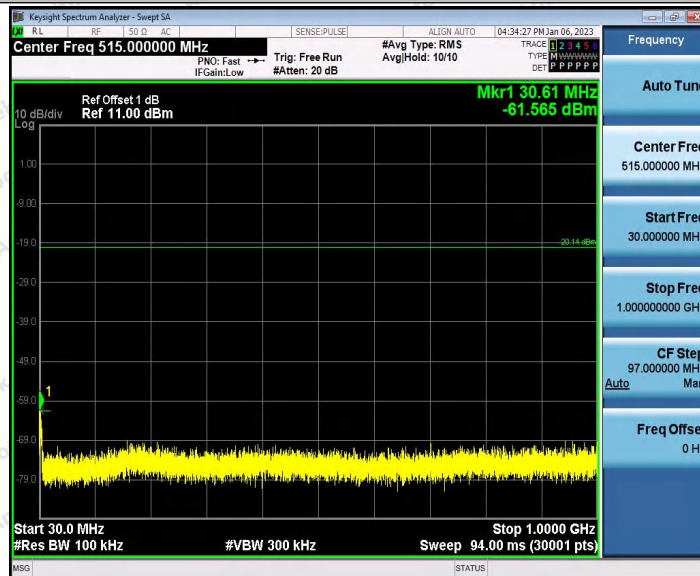


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

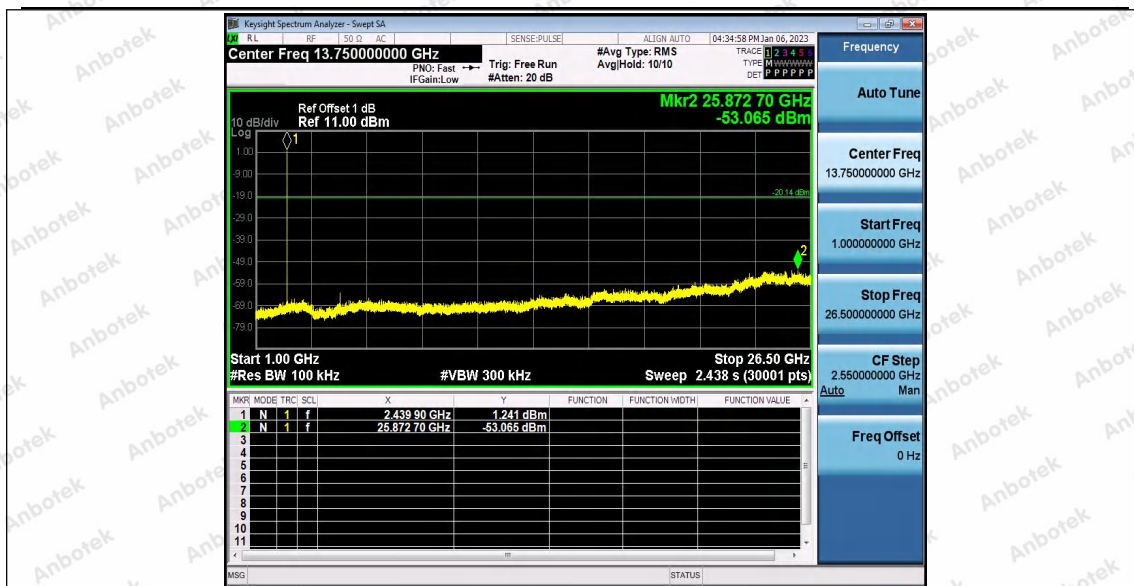
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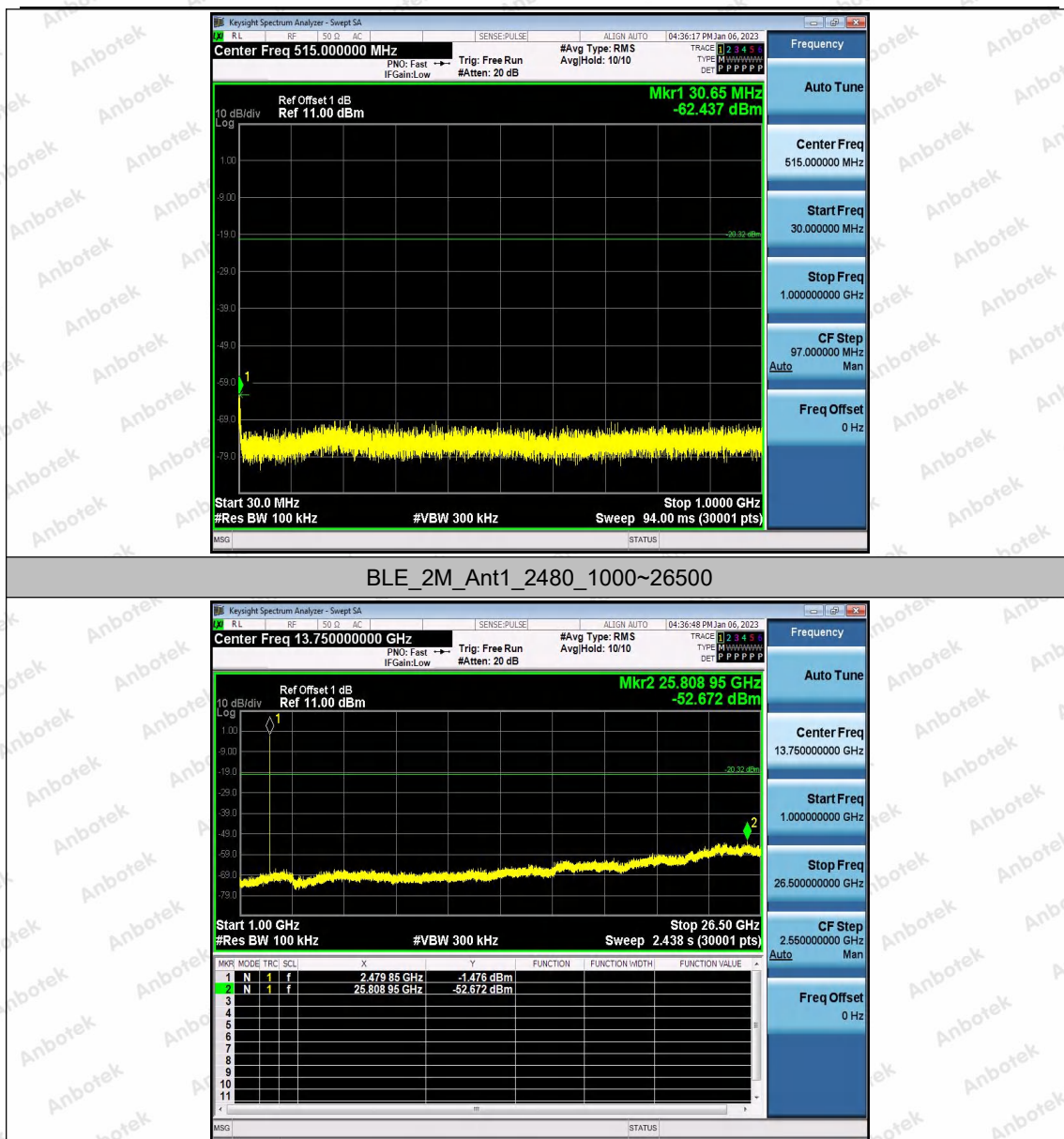


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

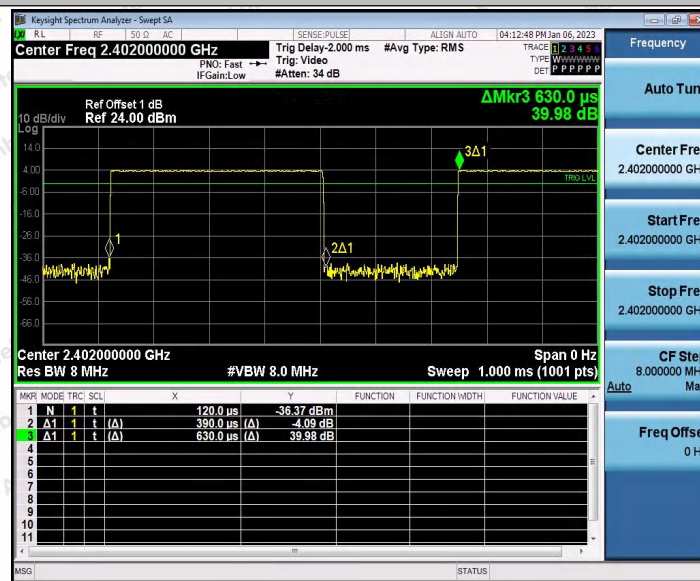
Test Result

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	0.20	0.63	31.75	4.98
		2440	0.20	0.63	31.75	4.98
		2480	0.20	0.63	31.75	4.98



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

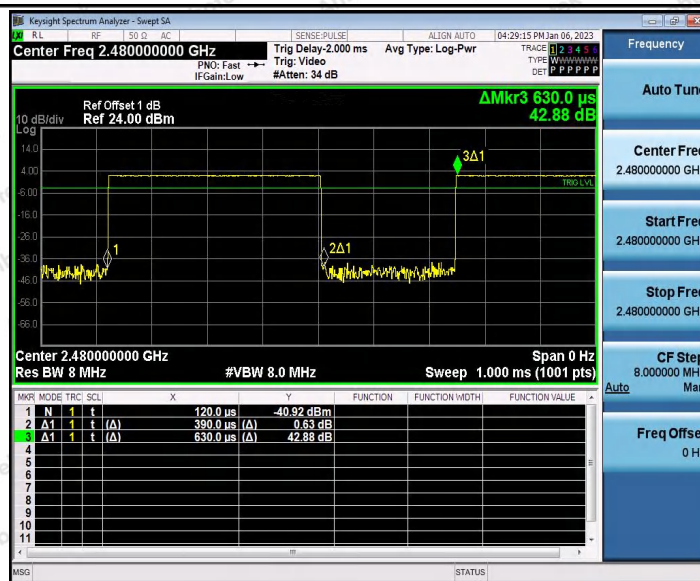
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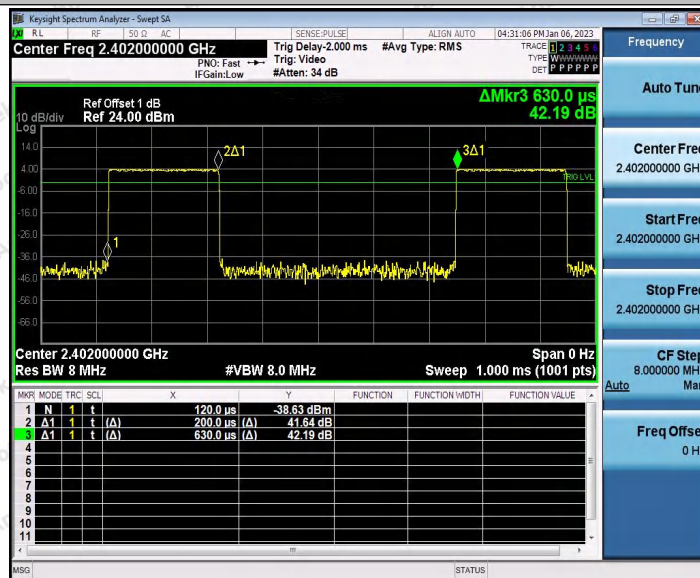


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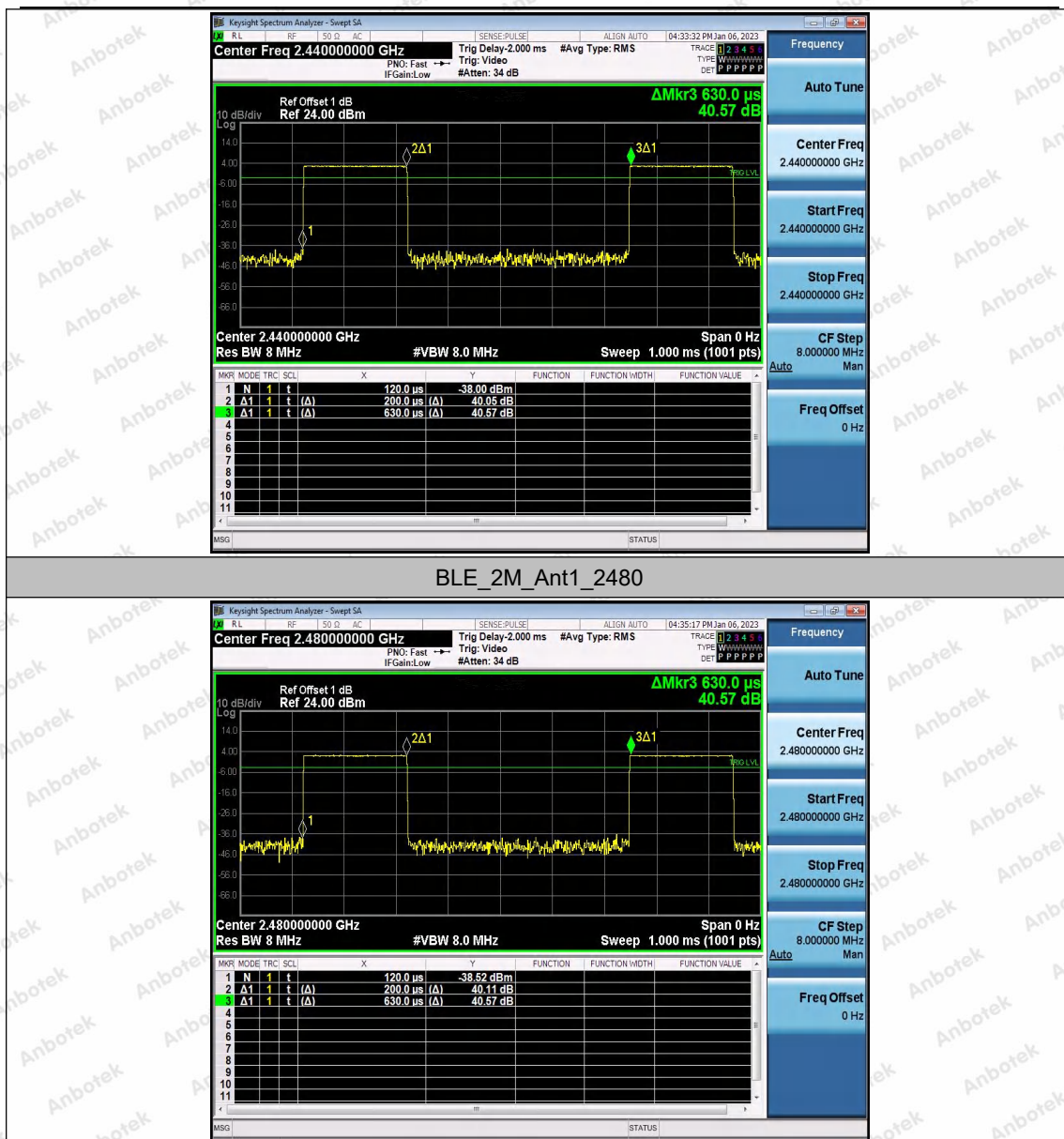


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

