

Appendix Test Data

Report No.:	18220WC20295602	Test Sample No.:	1-2-2
Start Test Date:	2022.12.30	Finish Test Date:	2023.1.4
Test Engineer:	<i>Tony 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	0.688	2401.668	2402.356	0.5	PASS
		2440	0.688	2439.664	2440.352	0.5	PASS
		2480	0.684	2479.660	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.188	2401.416	2402.604	0.5	PASS
		2440	1.112	2439.468	2440.580	0.5	PASS
		2480	1.320	2479.336	2480.656	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	1.0442	2401.4905	2402.5347
		2440	1.0485	2439.4868	2440.5353
		2480	1.0498	2479.4867	2480.5365
BLE_2M	Ant1	2402	2.0785	2400.9904	2403.0689
		2440	2.0852	2438.9800	2441.0652
		2480	2.0848	2478.9807	2481.0655



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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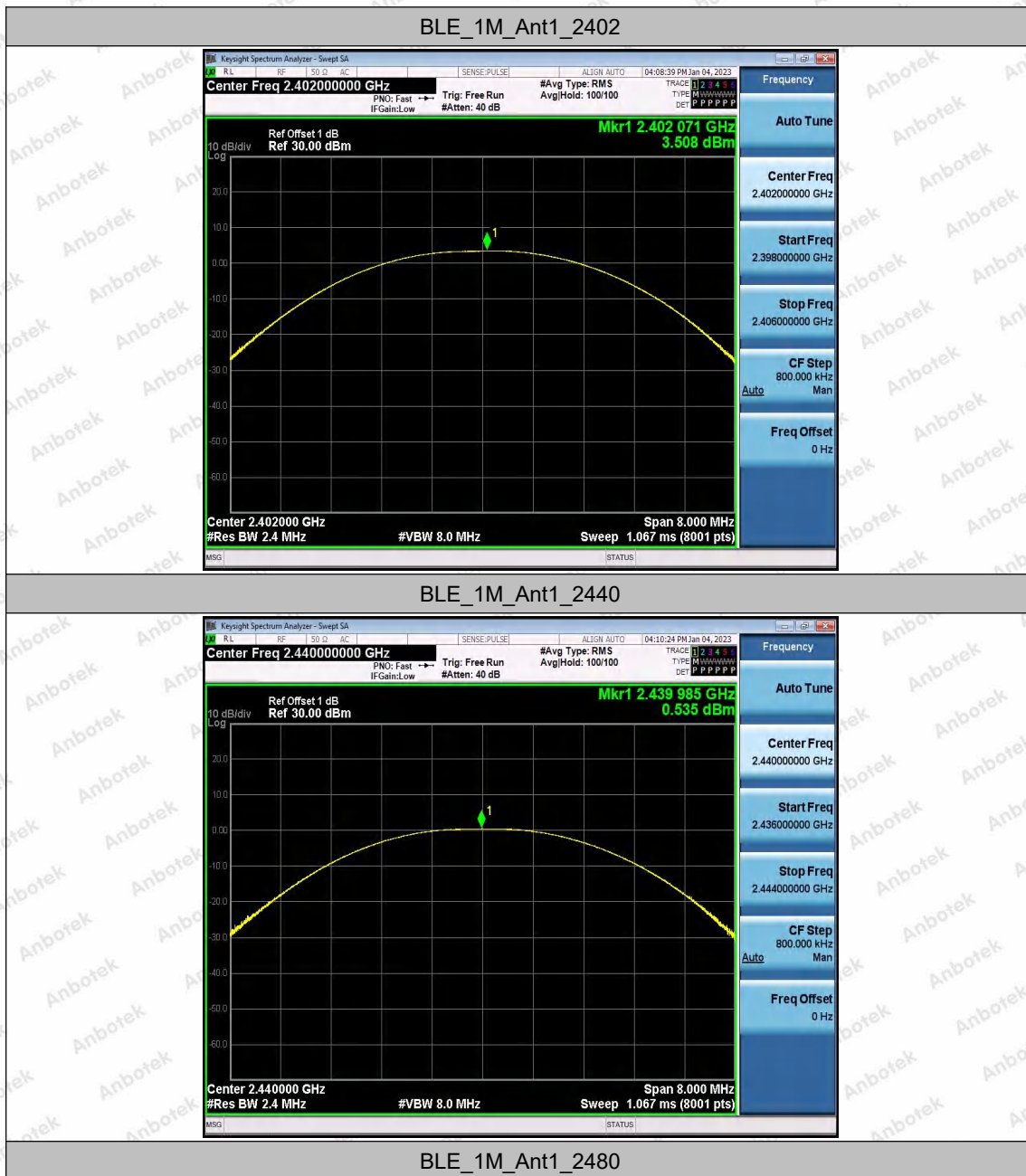
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.51	≤30	PASS
		2440	0.54	≤30	PASS
		2480	2.04	≤30	PASS
BLE_2M	Ant1	2402	2.81	≤30	PASS
		2440	0.6	≤30	PASS
		2480	0.13	≤30	PASS



Test Graphs Peak



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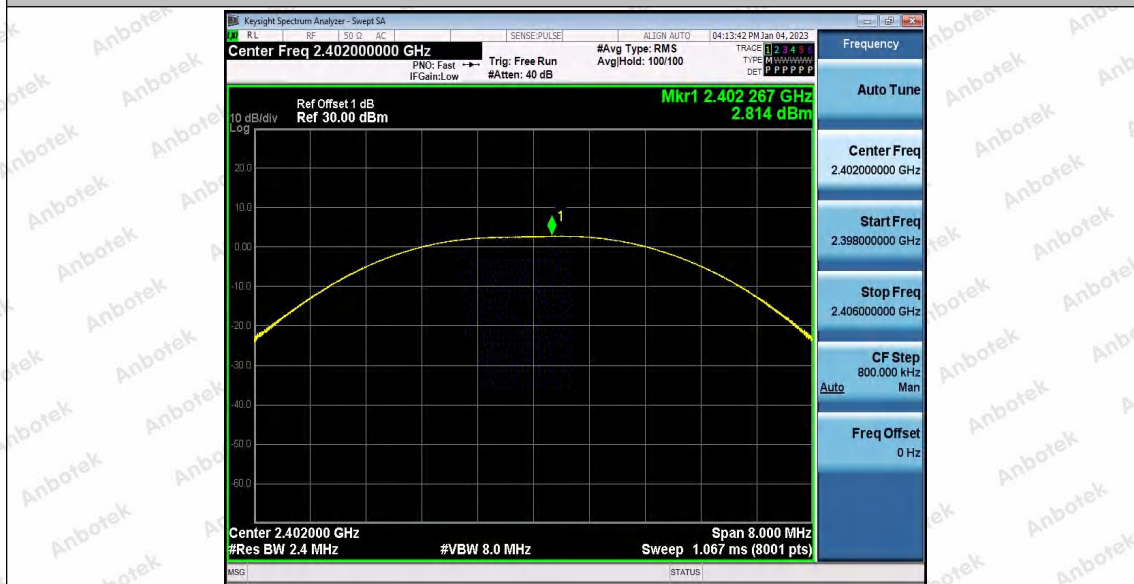


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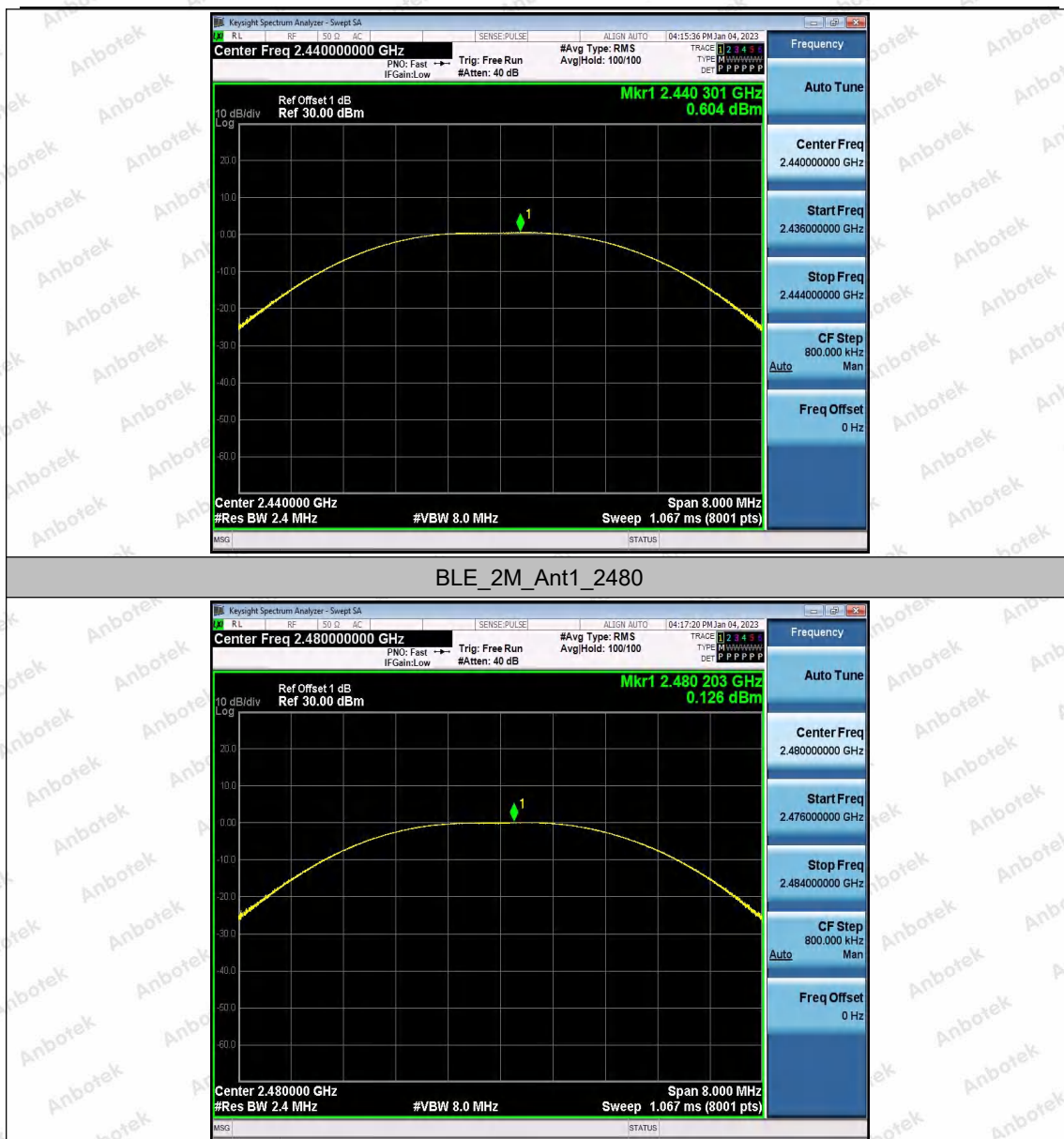


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.58	≤8.00	PASS
		2440	-14.52	≤8.00	PASS
		2480	-12.96	≤8.00	PASS
BLE_2M	Ant1	2402	-14.55	≤8.00	PASS
		2440	-16.74	≤8.00	PASS
		2480	-17.17	≤8.00	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

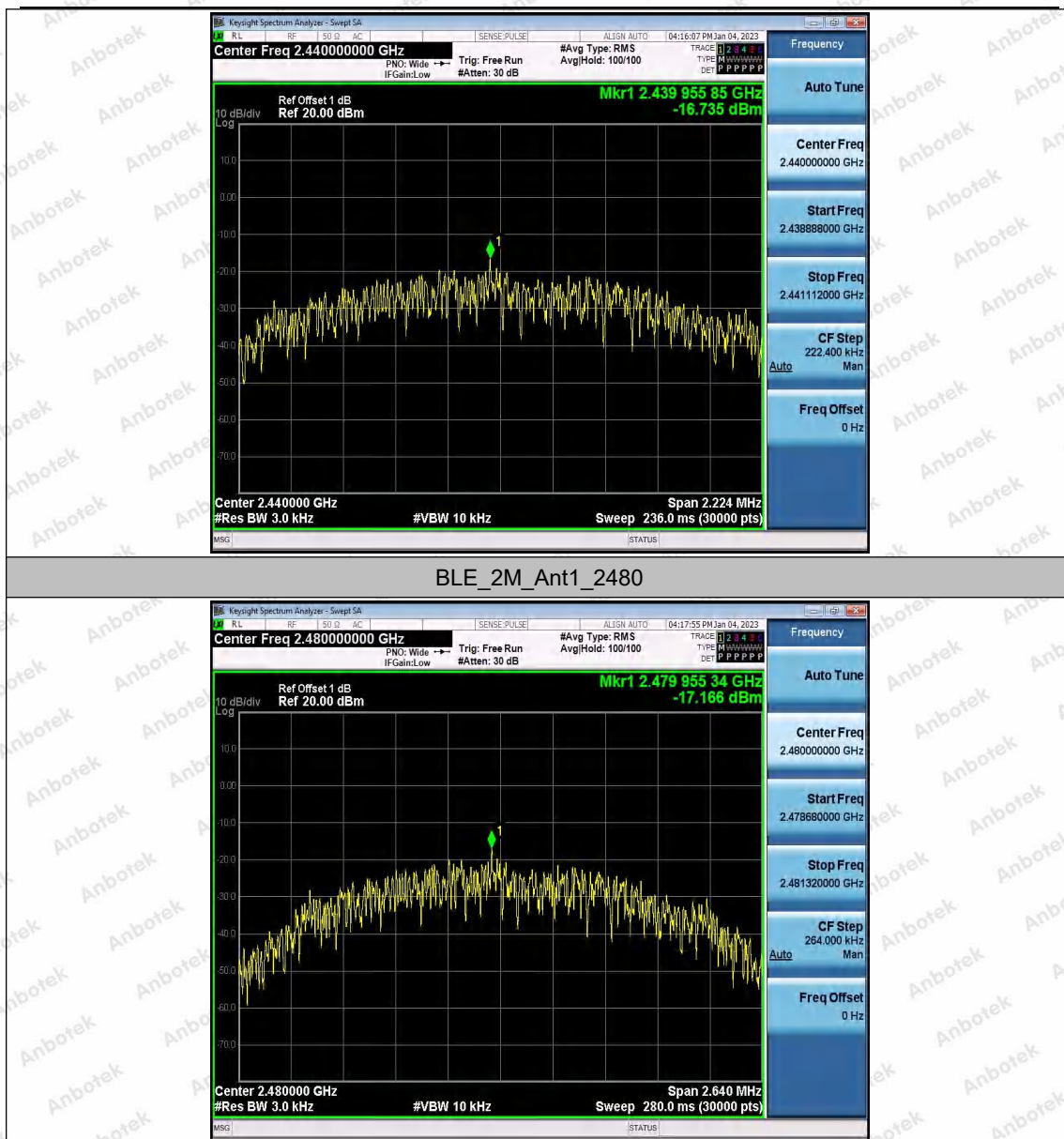
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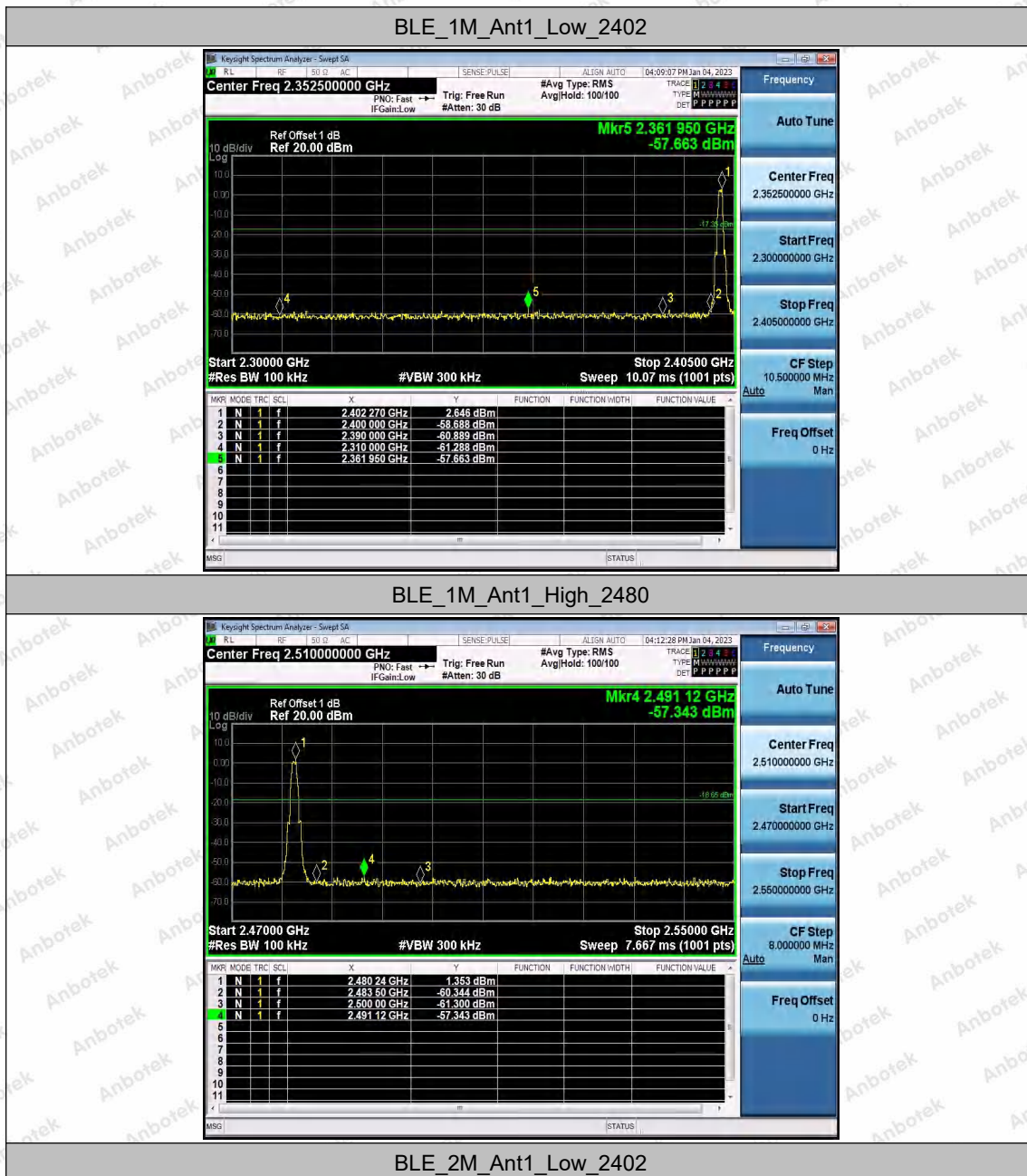
Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	2.65	-57.66	≤-17.35	PASS
		High	2480	1.35	-57.34	≤-18.65	PASS
BLE_2M	Ant1	Low	2402	1.58	-33.39	≤-18.42	PASS
		High	2480	-1.84	-57.03	≤-21.84	PASS



Test Graphs



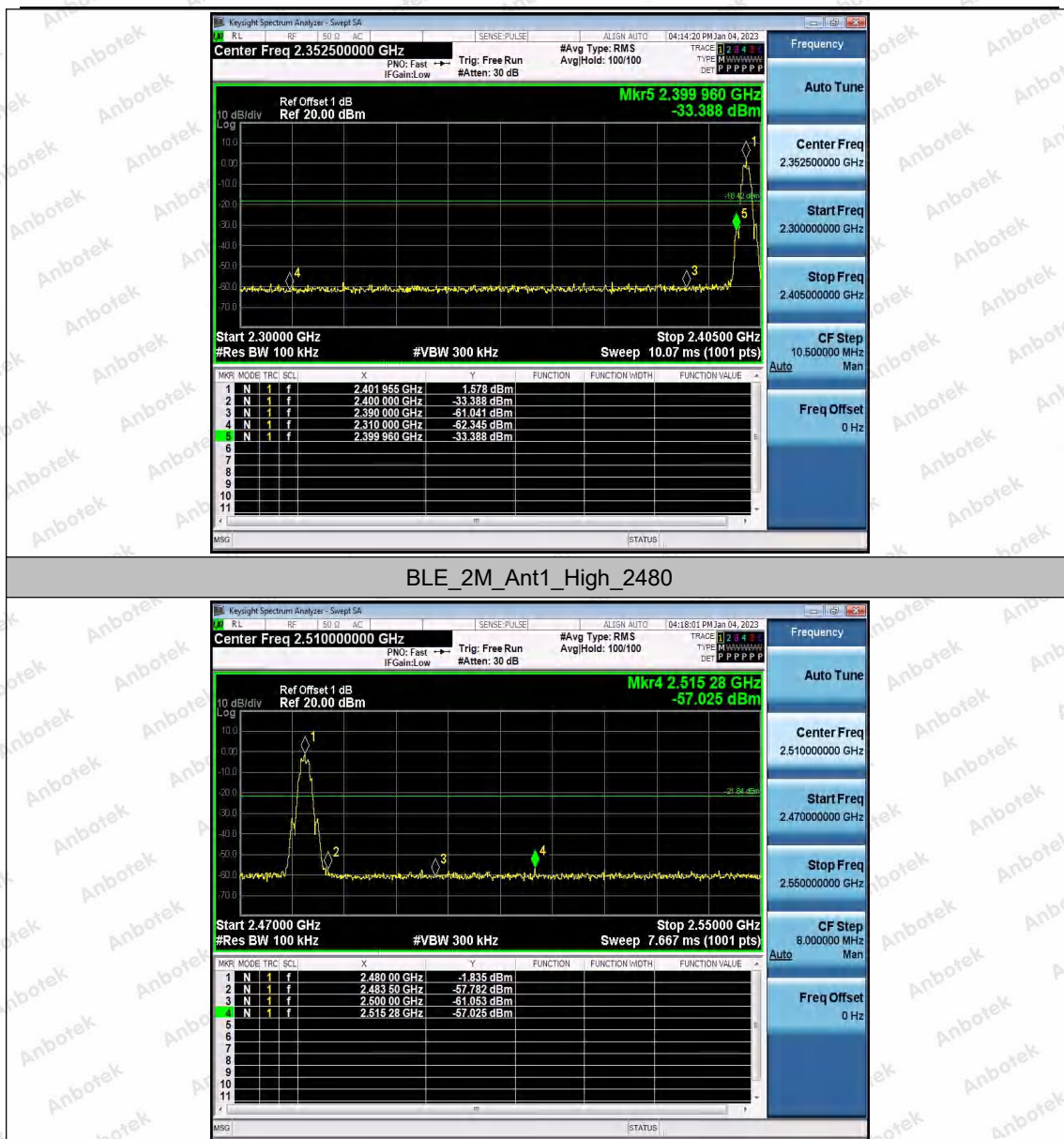
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-67.96	≤-18.31	PASS
			1000~26500	1.69	-53.09	≤-18.31	PASS
		2440	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.45	≤-21.06	PASS
			1000~26500	-1.06	-52.68	≤-21.06	PASS
		2480	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-65.88	≤-18.88	PASS
			1000~26500	1.12	-53.1	≤-18.88	PASS
BLE_2M	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-68.49	≤-19.29	PASS
			1000~26500	0.71	-53.1	≤-19.29	PASS
		2440	Reference	-3.67	-3.67	---	PASS
			30~1000	-3.67	-69.04	≤-23.67	PASS
			1000~26500	-3.67	-52.38	≤-23.67	PASS
		2480	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-68.5	≤-24.28	PASS
			1000~26500	-4.28	-52.89	≤-24.28	PASS

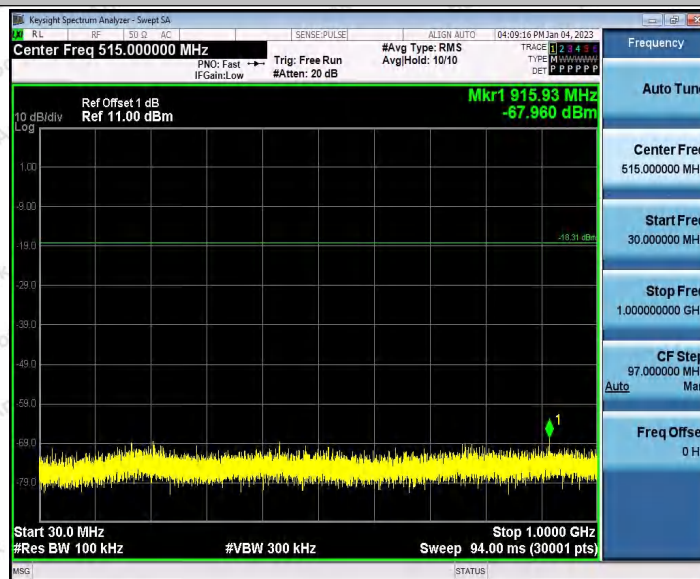


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

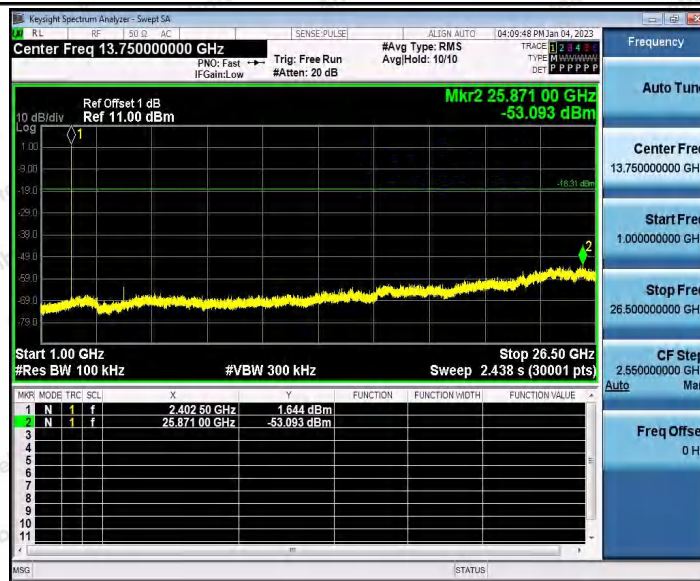
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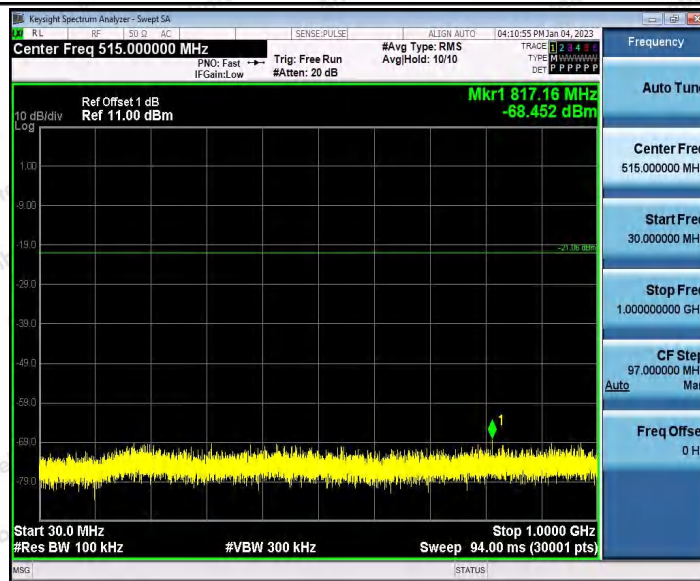


BLE_1M_Ant1_2440_0~Reference

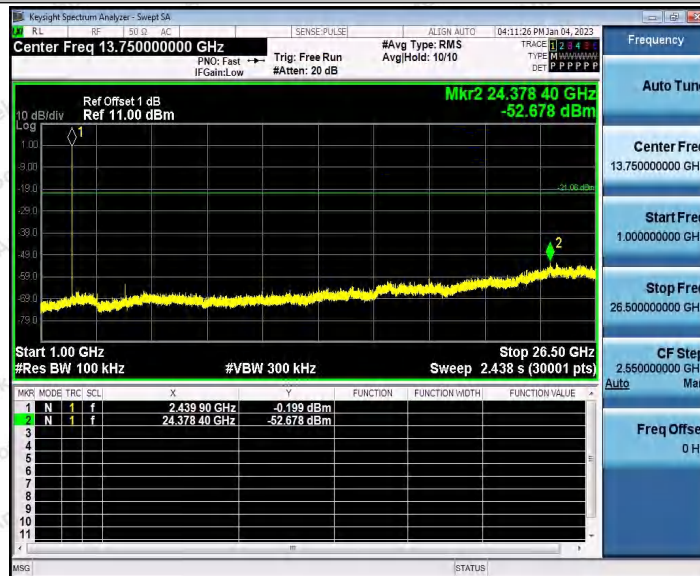


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





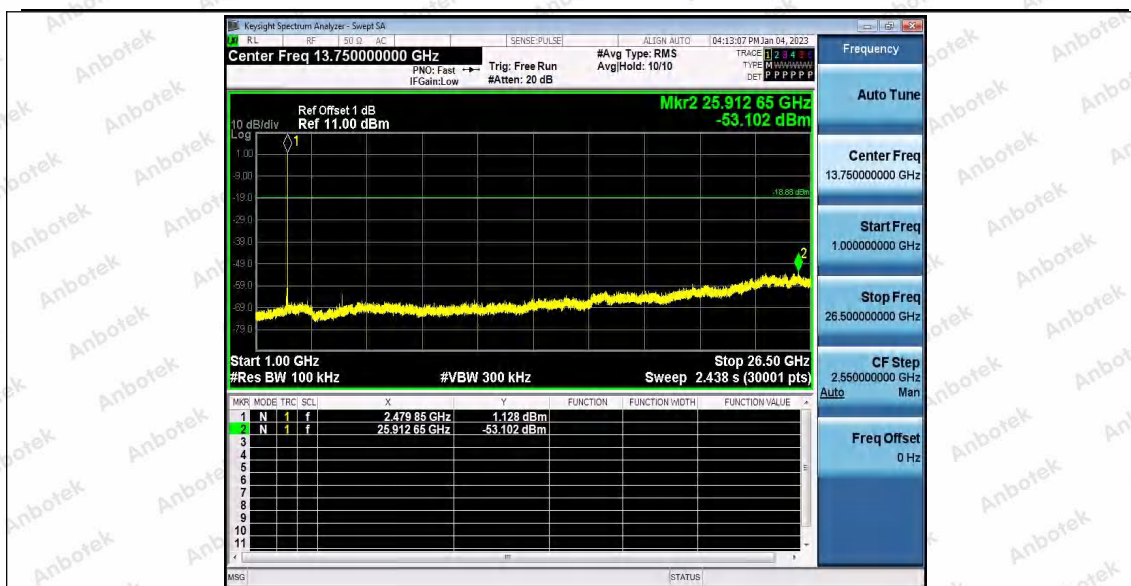
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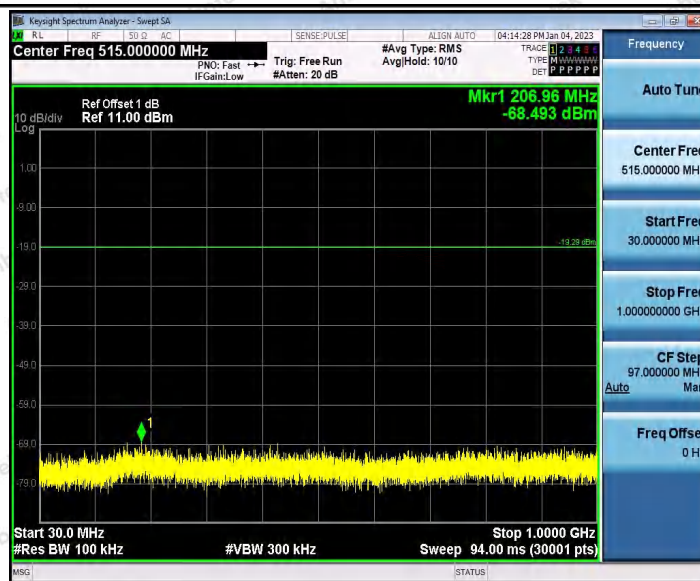


BLE_2M_Ant1_2402_0~Reference

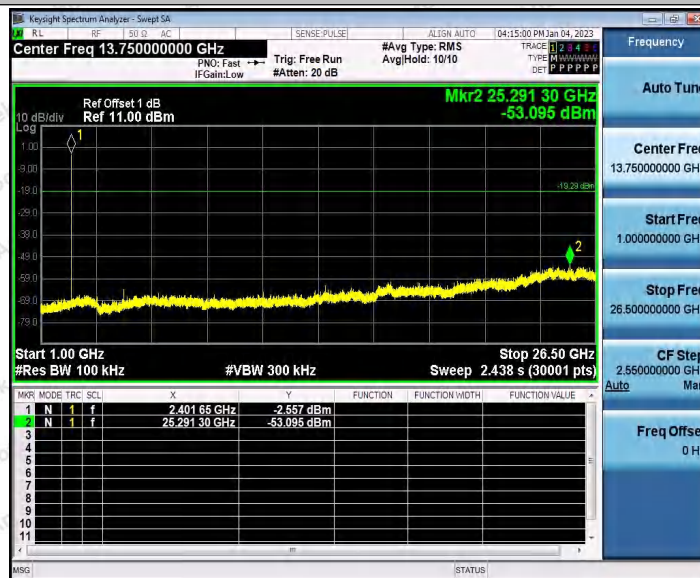


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





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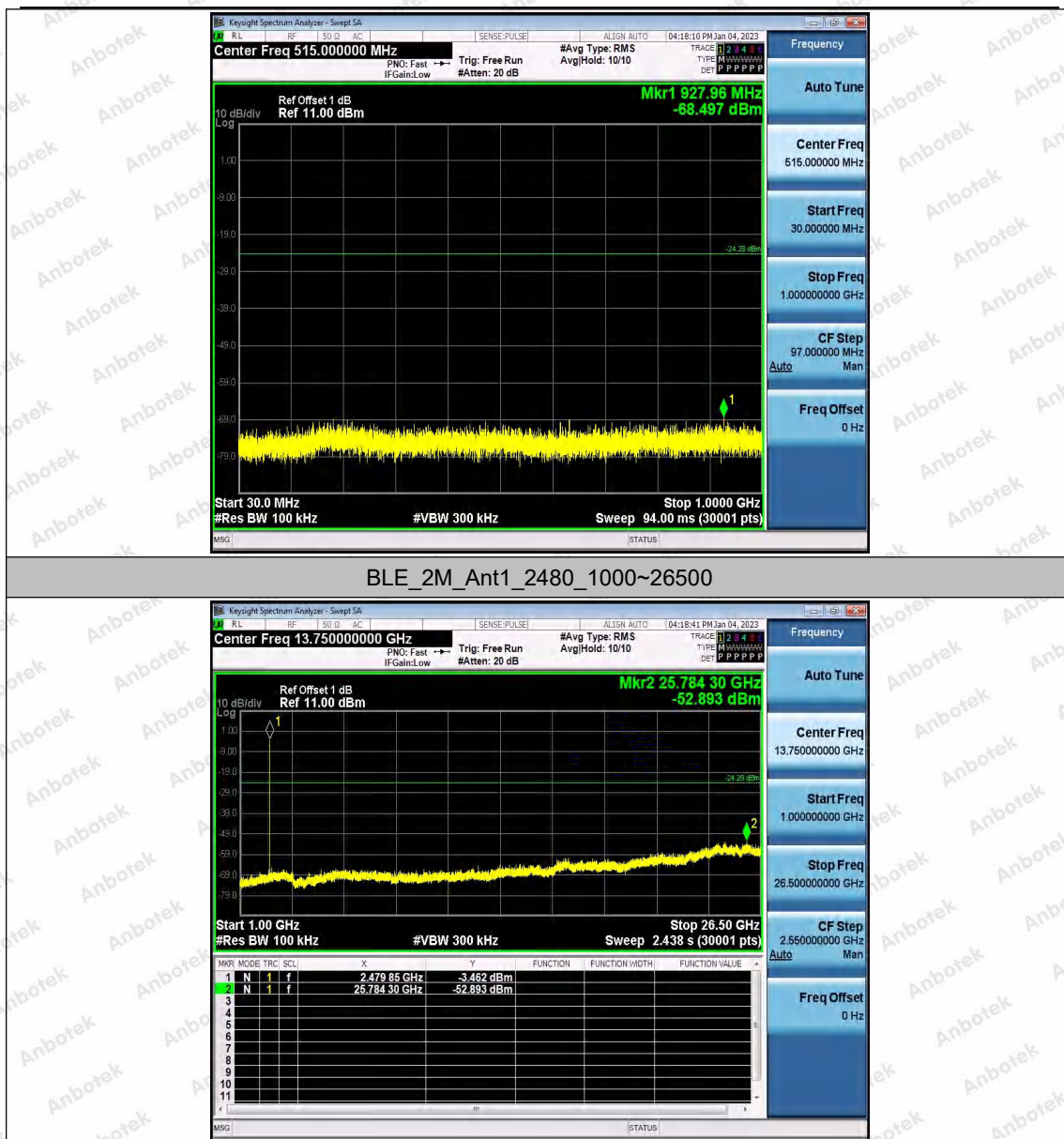


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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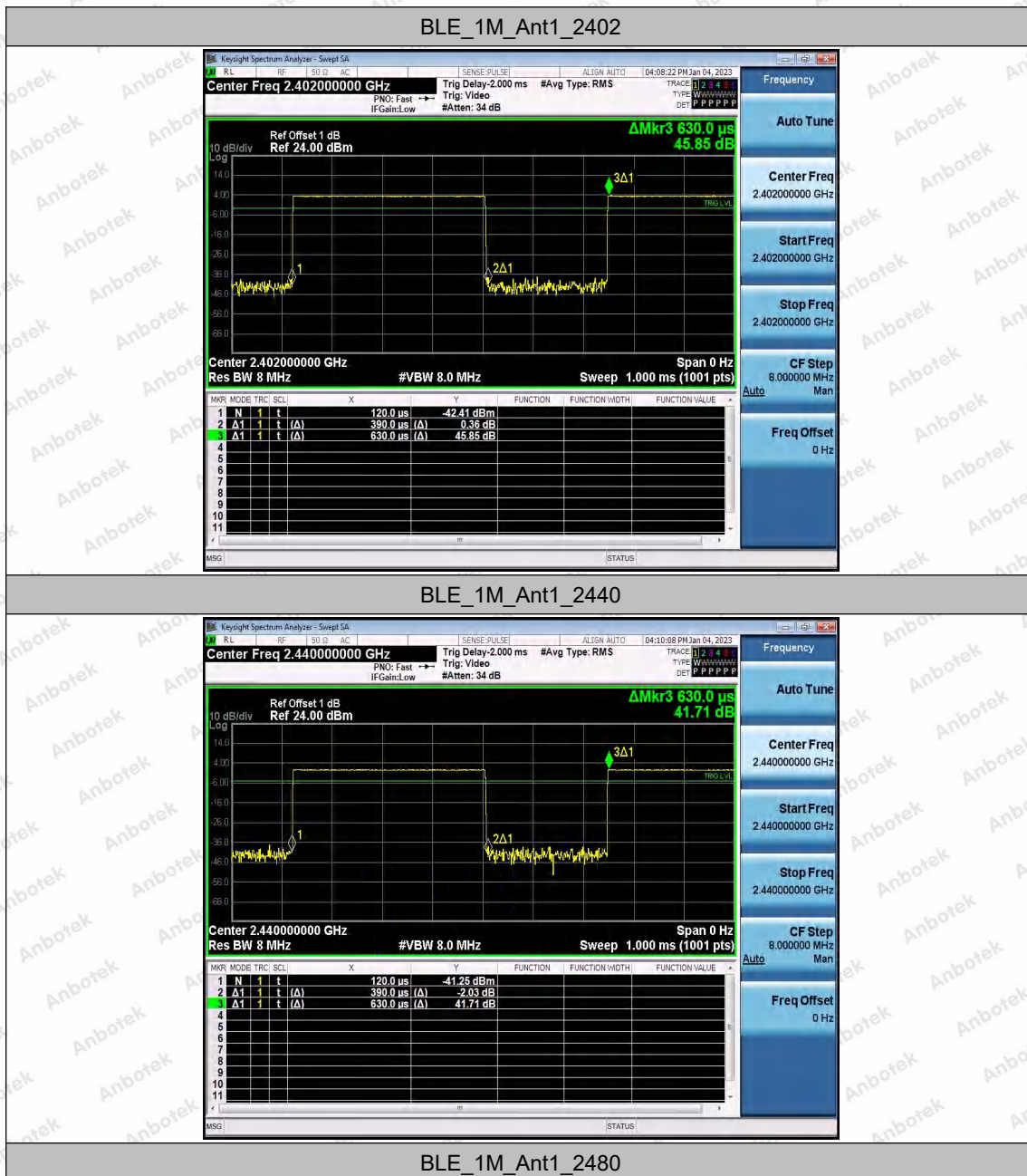
Appendix G: Duty Cycle

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



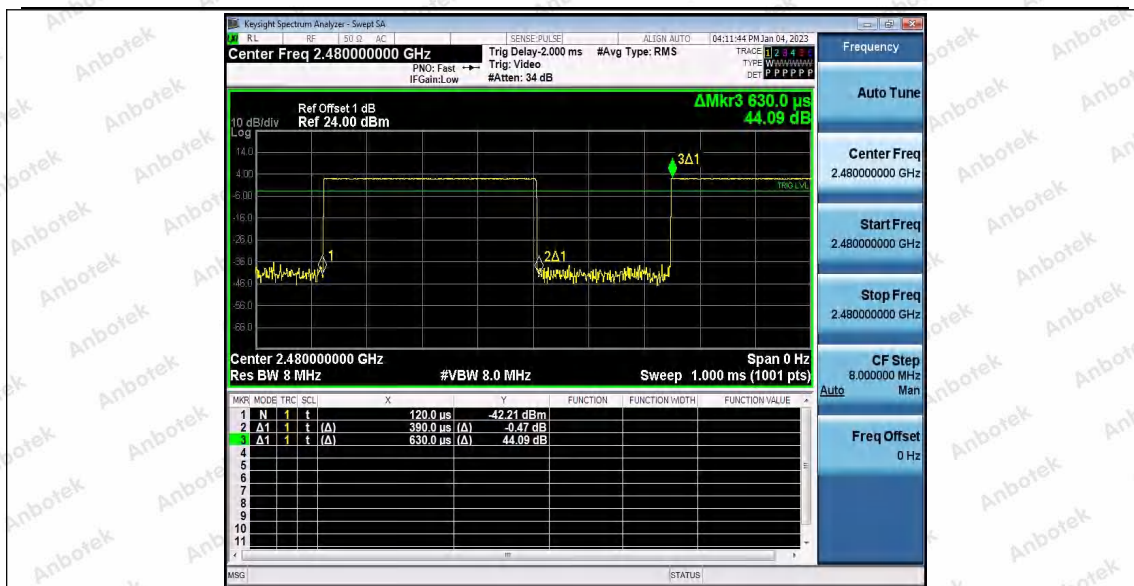
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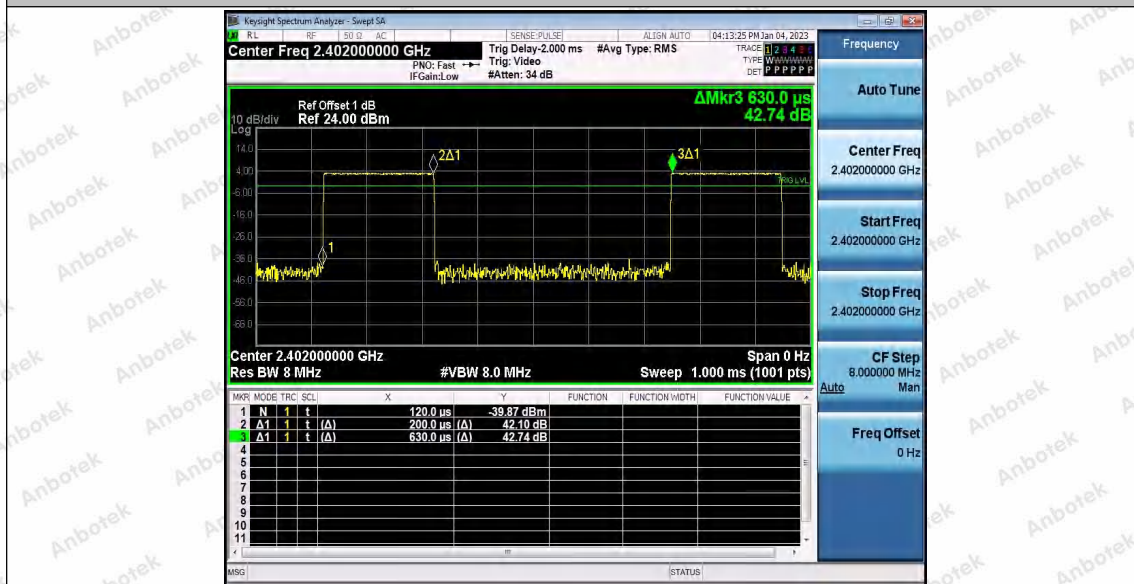


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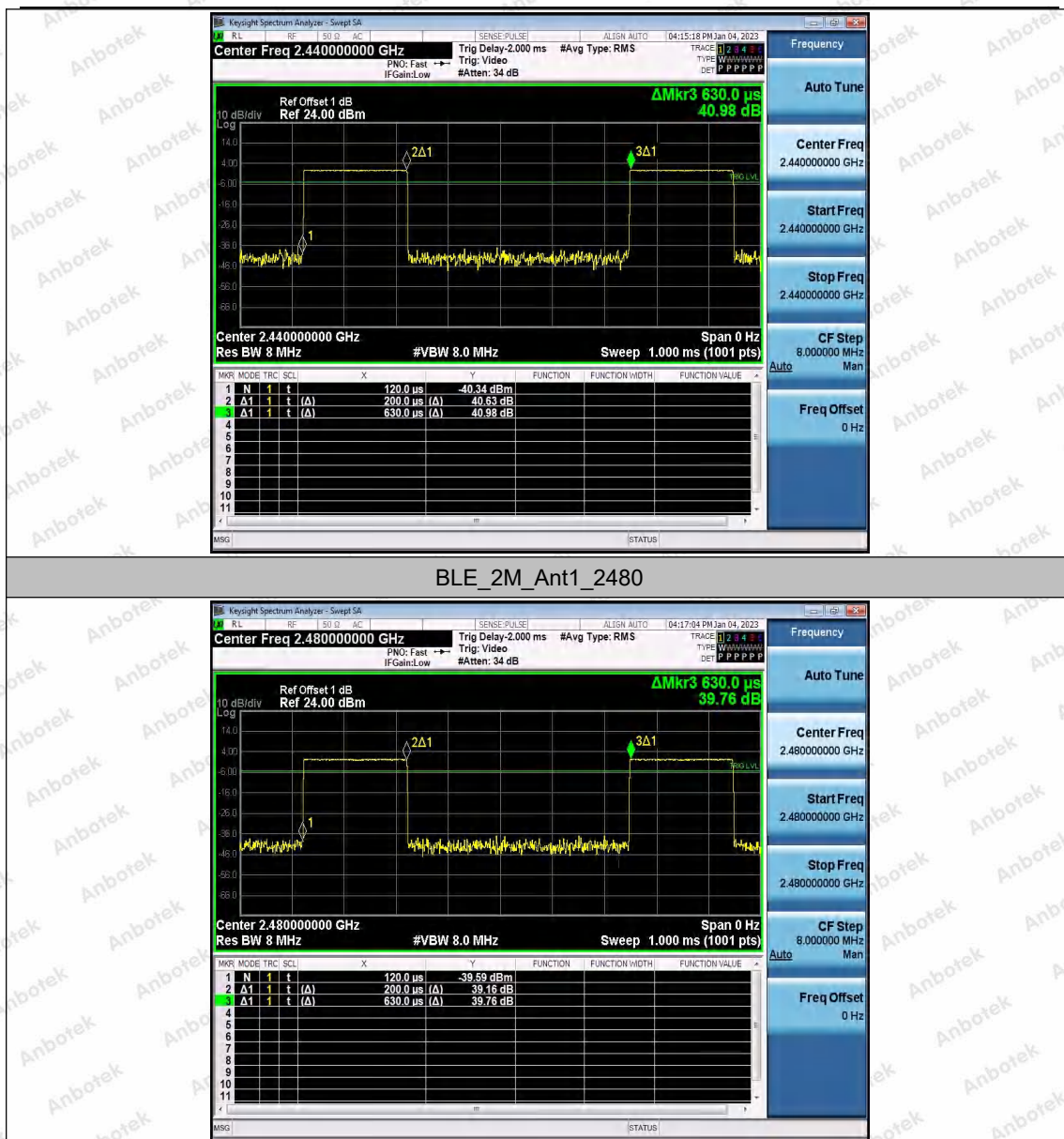


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

