

Appendix Test Data

Report No.:	18220WC30012002	Test Sample No.:	1-2-2
Start Test Date:	2023.2.3	Finish Test Date:	2023.2.14
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	56 %
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	0.920	2401.552	2402.472	0.5	PASS
		2440	0.932	2439.556	2440.488	0.5	PASS
		2480	0.916	2479.560	2480.476	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_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	1.2107	2401.3633	2402.5740
		2440	1.2186	2439.3602	2440.5788
		2480	1.2022	2479.3677	2480.5699



Test Graphs



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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	2.49	≤30	PASS
		2440	2.57	≤30	PASS
		2480	2.09	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

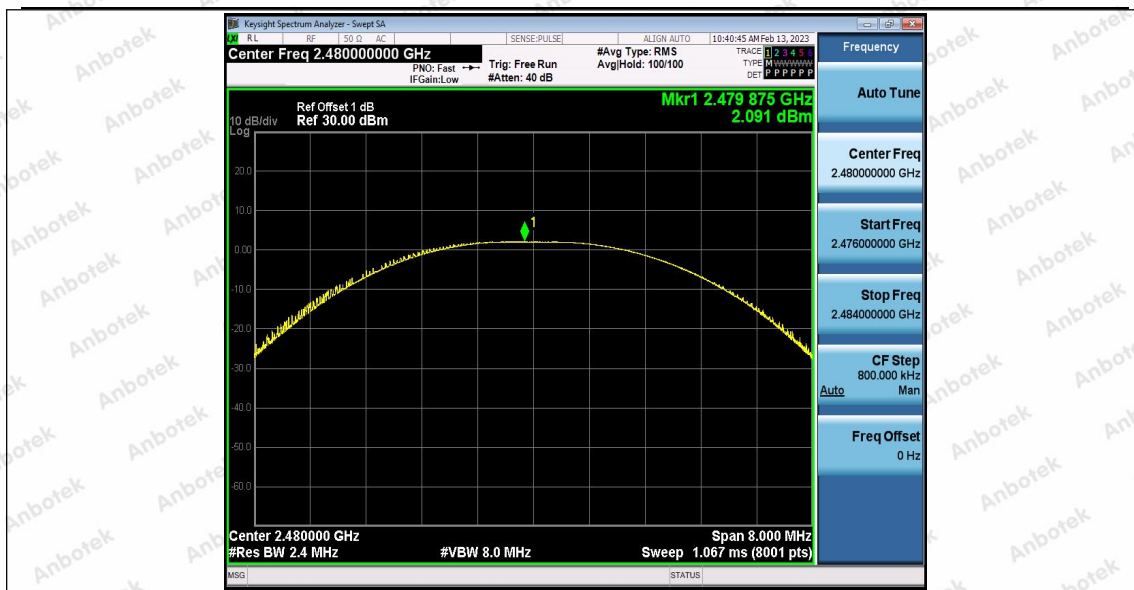
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.19	≤8.00	PASS
		2440	-11.97	≤8.00	PASS
		2480	-12.47	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

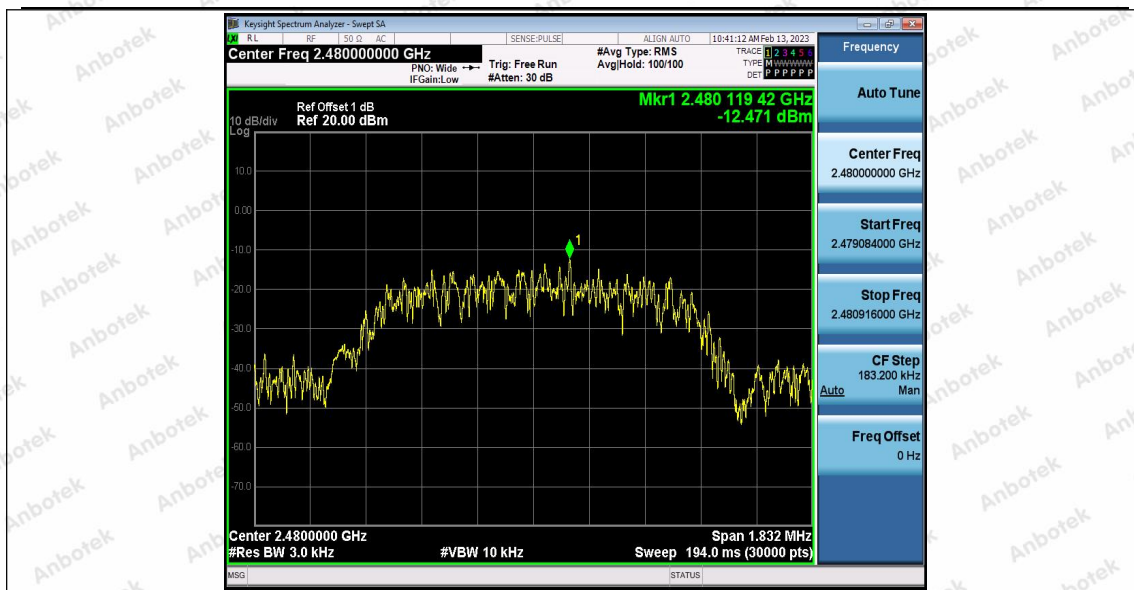
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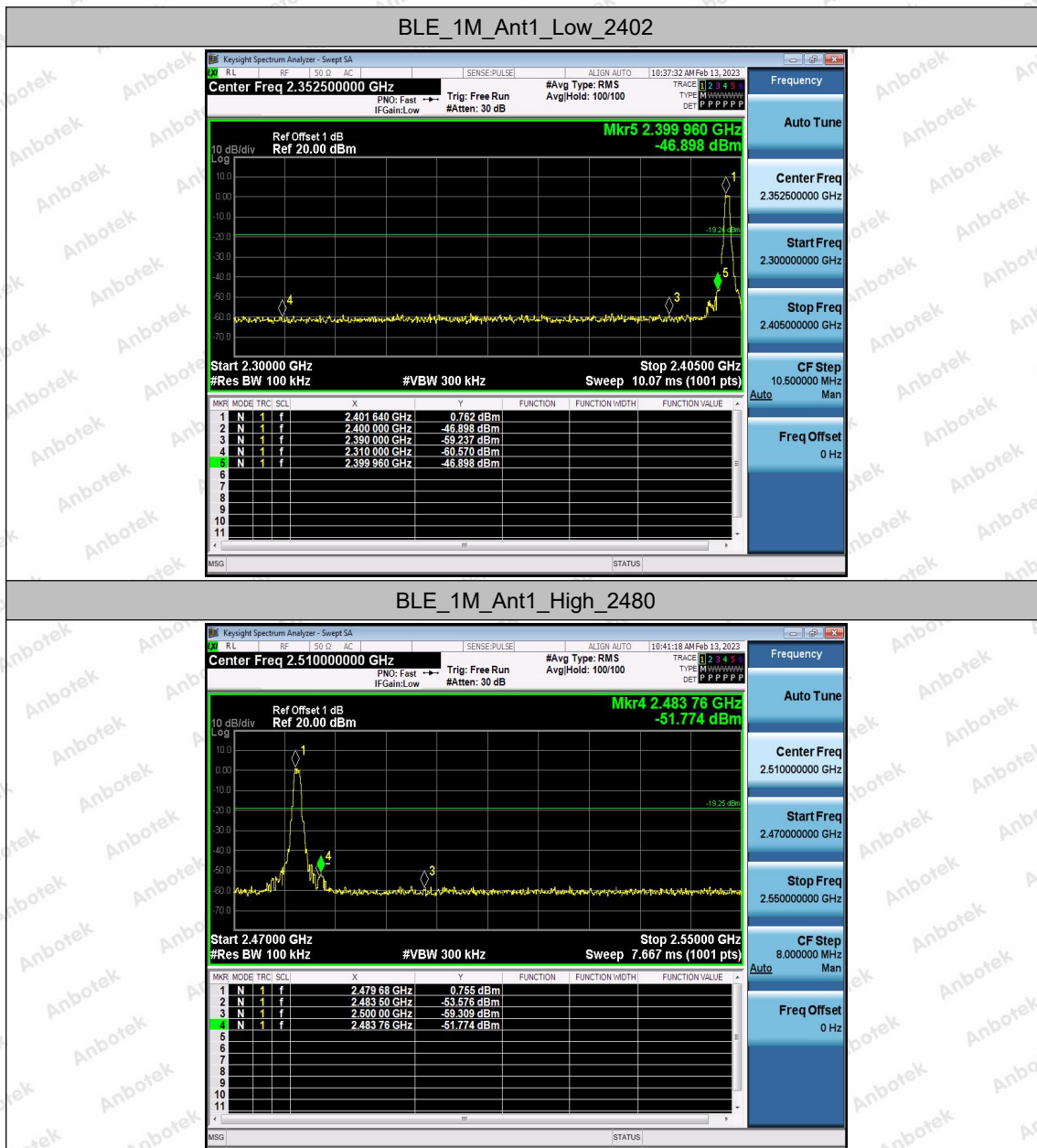
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.76	-46.9	≤-19.24	PASS
		High	2480	0.76	-51.77	≤-19.25	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	0.31	0.31	---	PASS
			30~1000	0.31	-67.58	≤-19.69	PASS
			1000~26500	0.31	-43.37	≤-19.69	PASS
		2440	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-67.31	≤-19.44	PASS
			1000~26500	0.56	-42.34	≤-19.44	PASS
		2480	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-67.37	≤-20.53	PASS
			1000~26500	-0.53	-46.54	≤-20.53	PASS

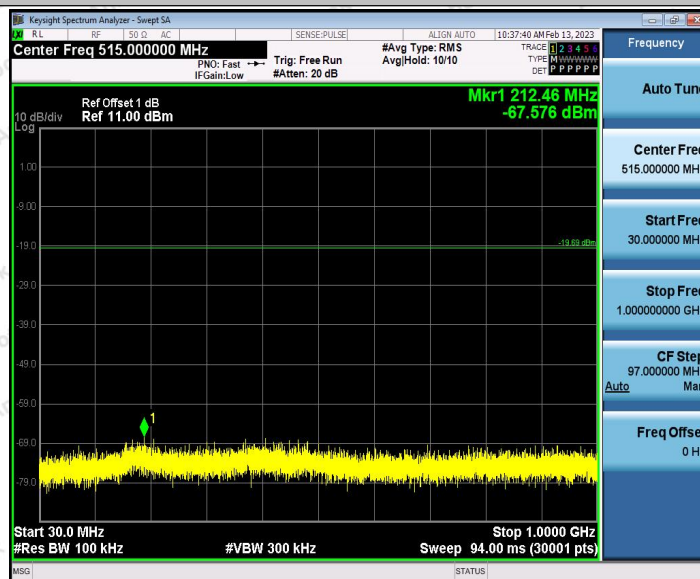


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

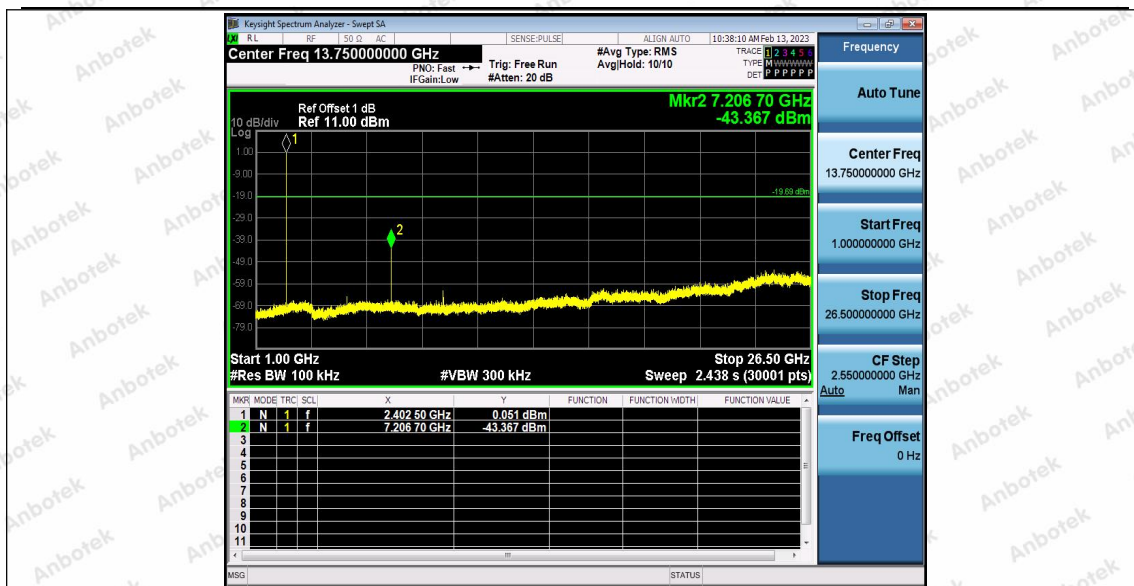
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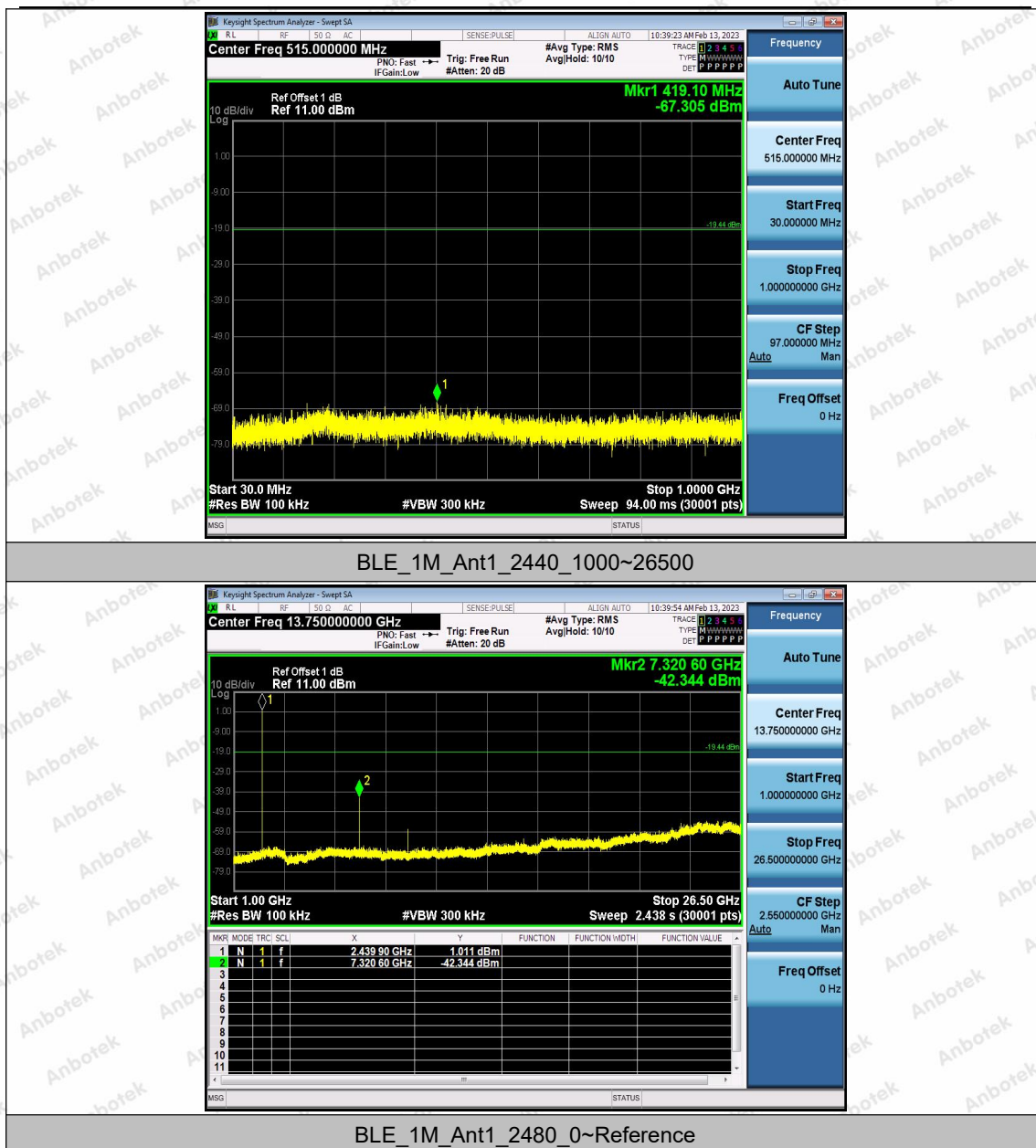


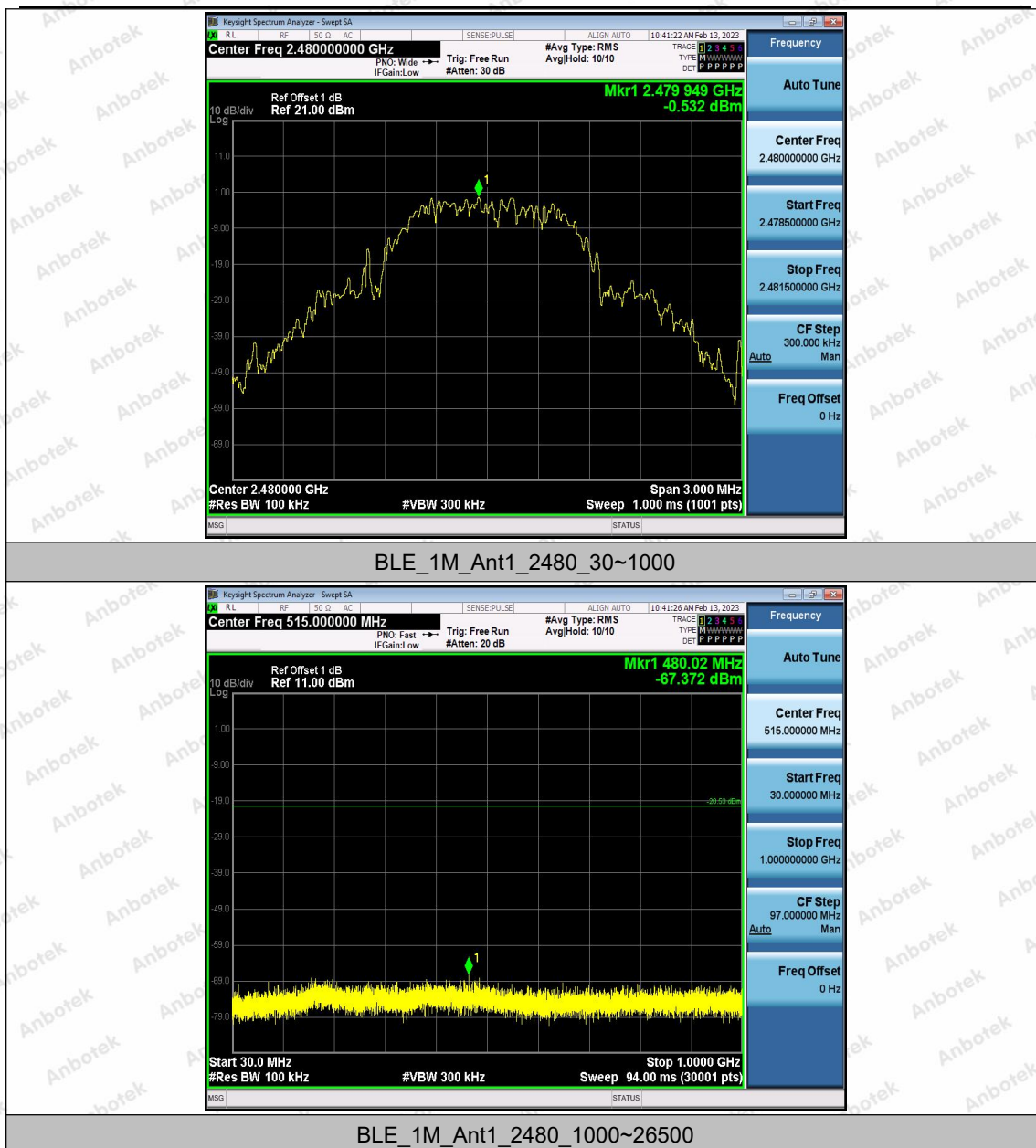
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000







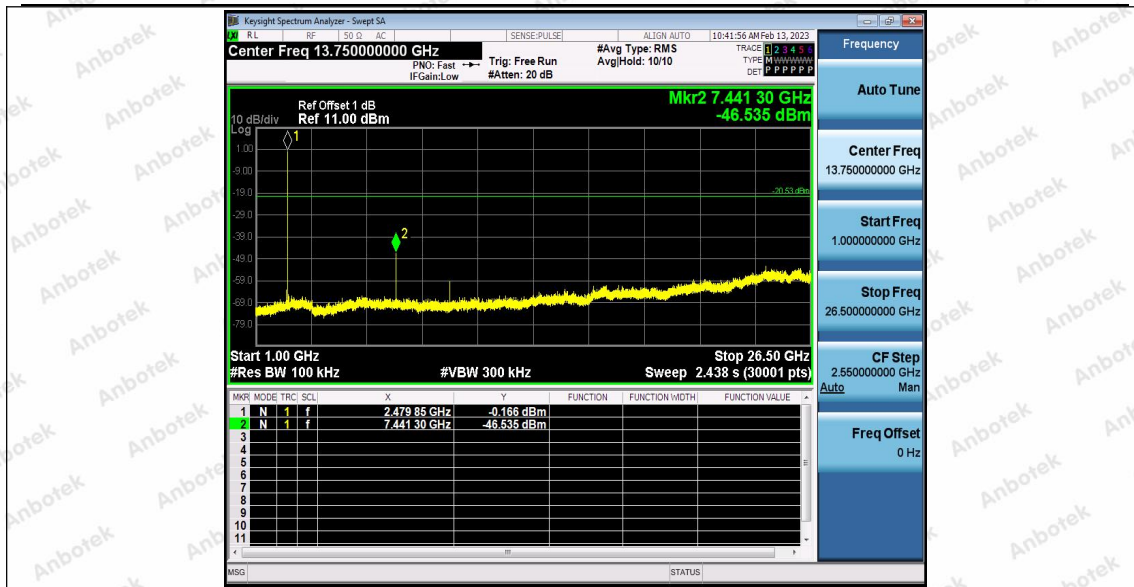
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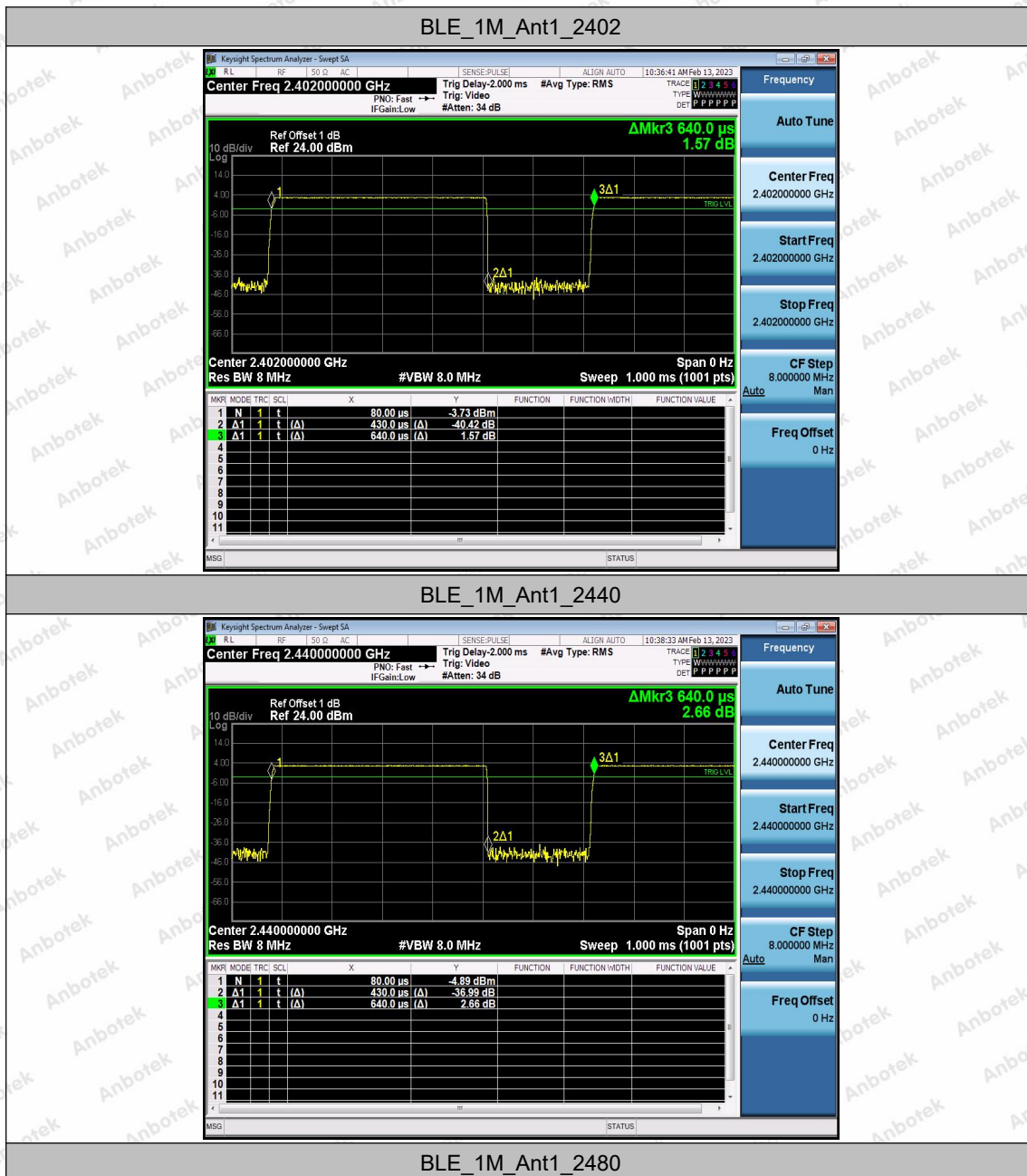
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.43	0.64	67.19	1.73
		2440	0.43	0.64	67.19	1.73
		2480	0.43	0.64	67.19	1.73



Test Graphs



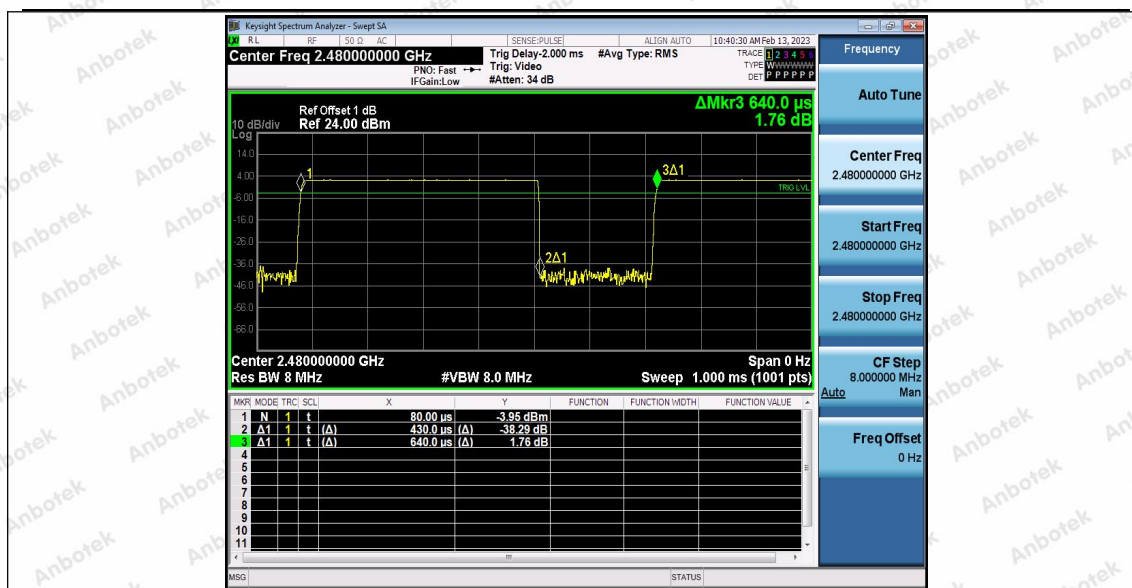
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