

Appendix Test Data

Report No.:	18220WC30193201	Test Sample No.:	1-2-2
Start Test Date:	2023.09.06	Finish Test Date:	2023.09.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	47%
Pressure:	102kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.656	2439.688	2440.344	0.5	PASS
		2480	0.668	2479.676	2480.344	0.5	PASS



Test Graphs



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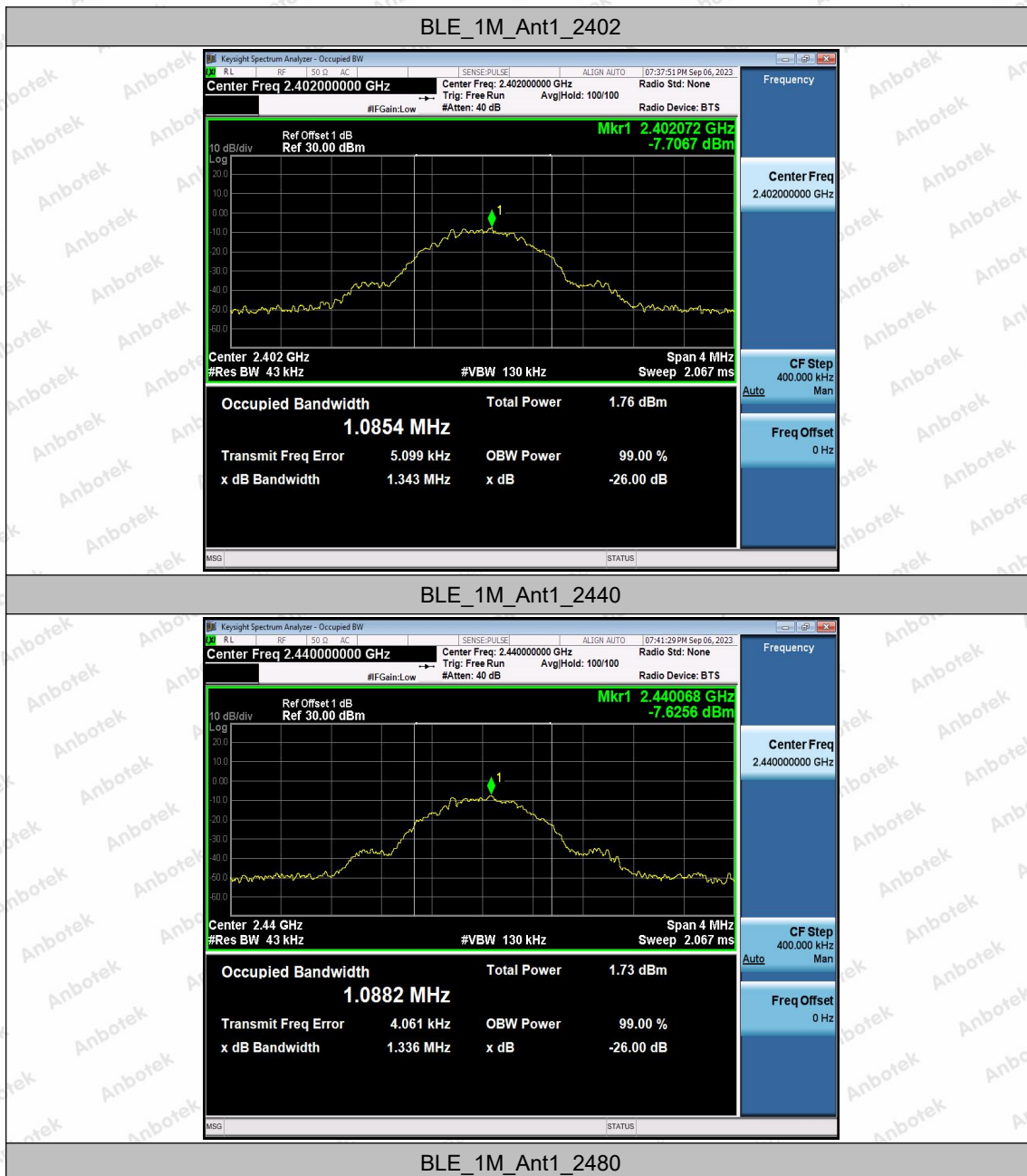
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0854	2401.4624	2402.5478
		2440	1.0882	2439.4600	2440.5482
		2480	1.1094	2479.4457	2480.5551



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	-4.77	≤30	PASS
		2440	-4.73	≤30	PASS
		2480	-4.71	≤30	PASS

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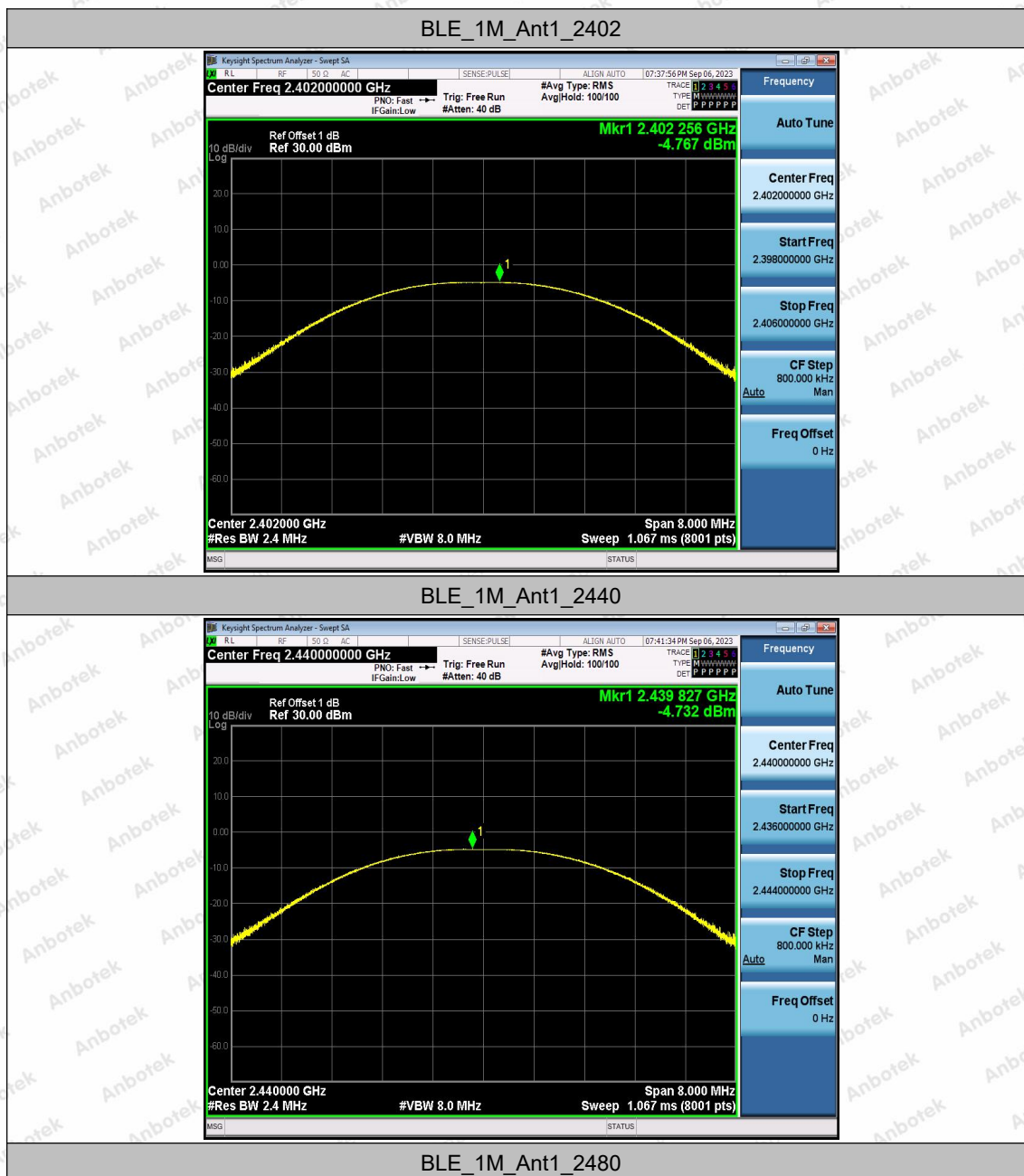
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Test Graphs Peak



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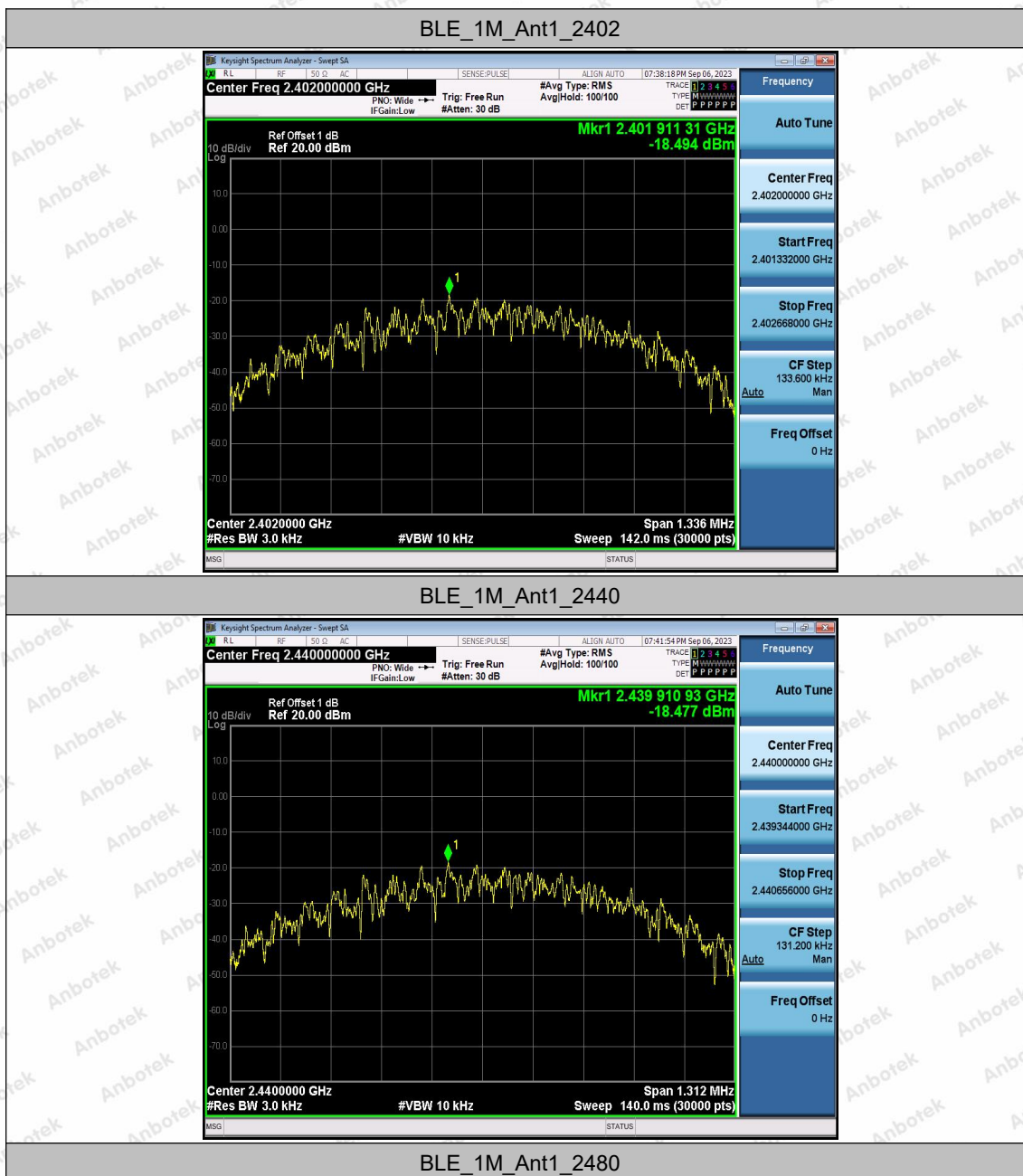
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.49	≤8.00	PASS
		2440	-18.48	≤8.00	PASS
		2480	-18.51	≤8.00	PASS



Test Graphs



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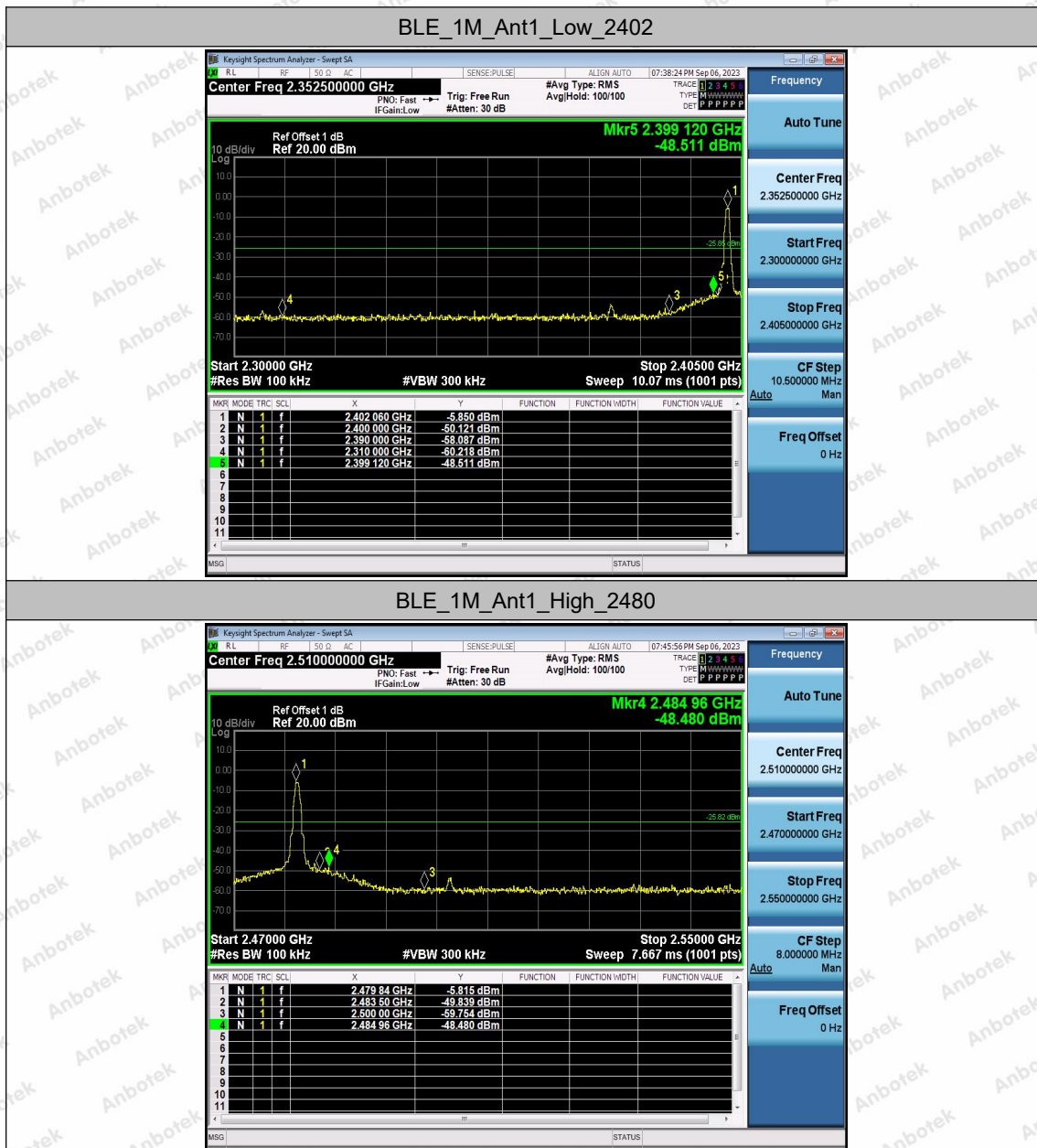
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.85	-48.51	≤-25.85	PASS
		High	2480	-5.82	-48.48	≤-25.82	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	-6.61	-6.61	---	PASS
			30~1000	-6.61	-69.19	≤-26.61	PASS
			1000~26500	-6.61	-46.18	≤-26.61	PASS
		2440	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-68.83	≤-26.72	PASS
			1000~26500	-6.72	-49.53	≤-26.72	PASS
		2480	Reference	-6.42	-6.42	---	PASS
			30~1000	-6.42	-68.19	≤-26.42	PASS
			1000~26500	-6.42	-49.59	≤-26.42	PASS

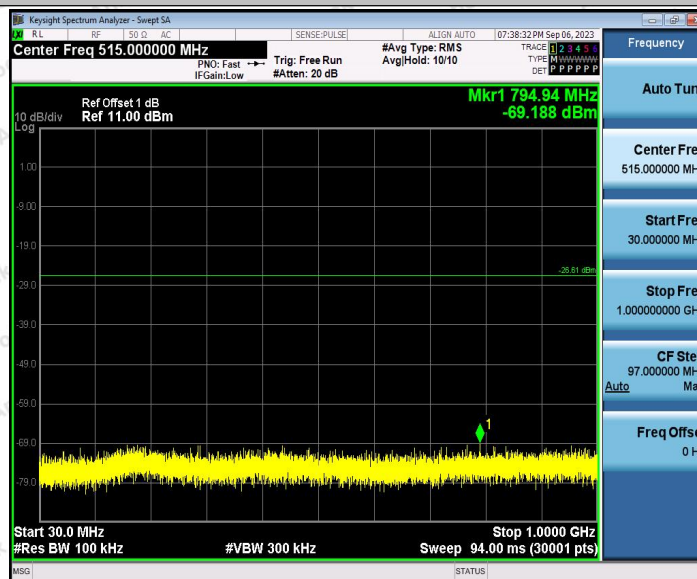


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

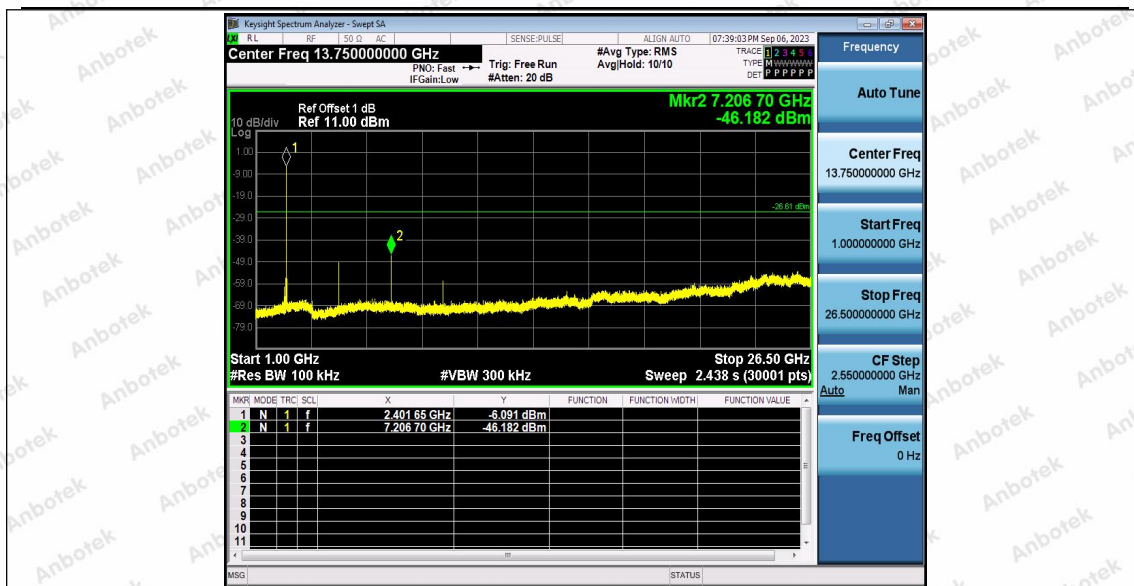
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

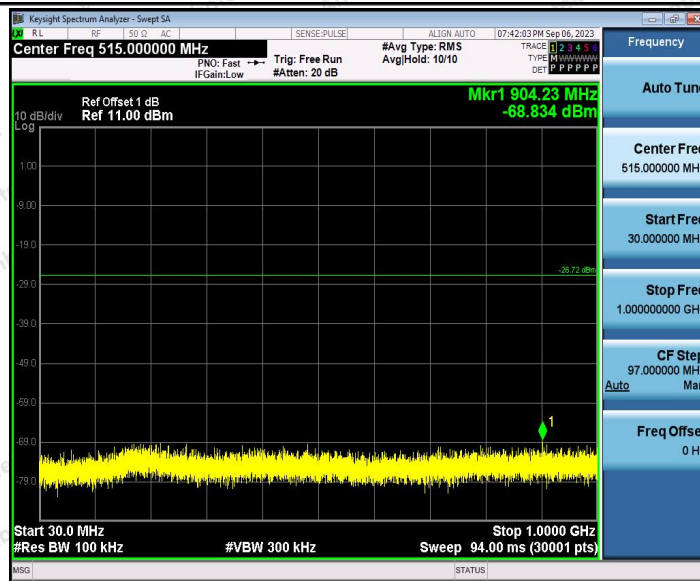
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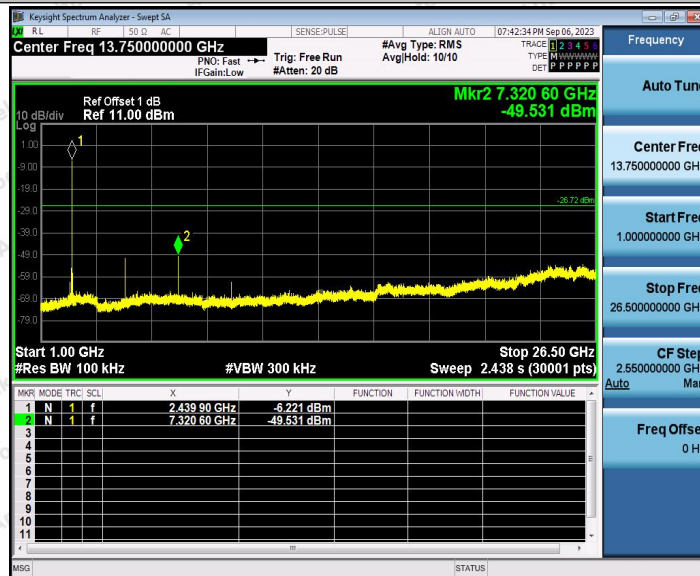


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

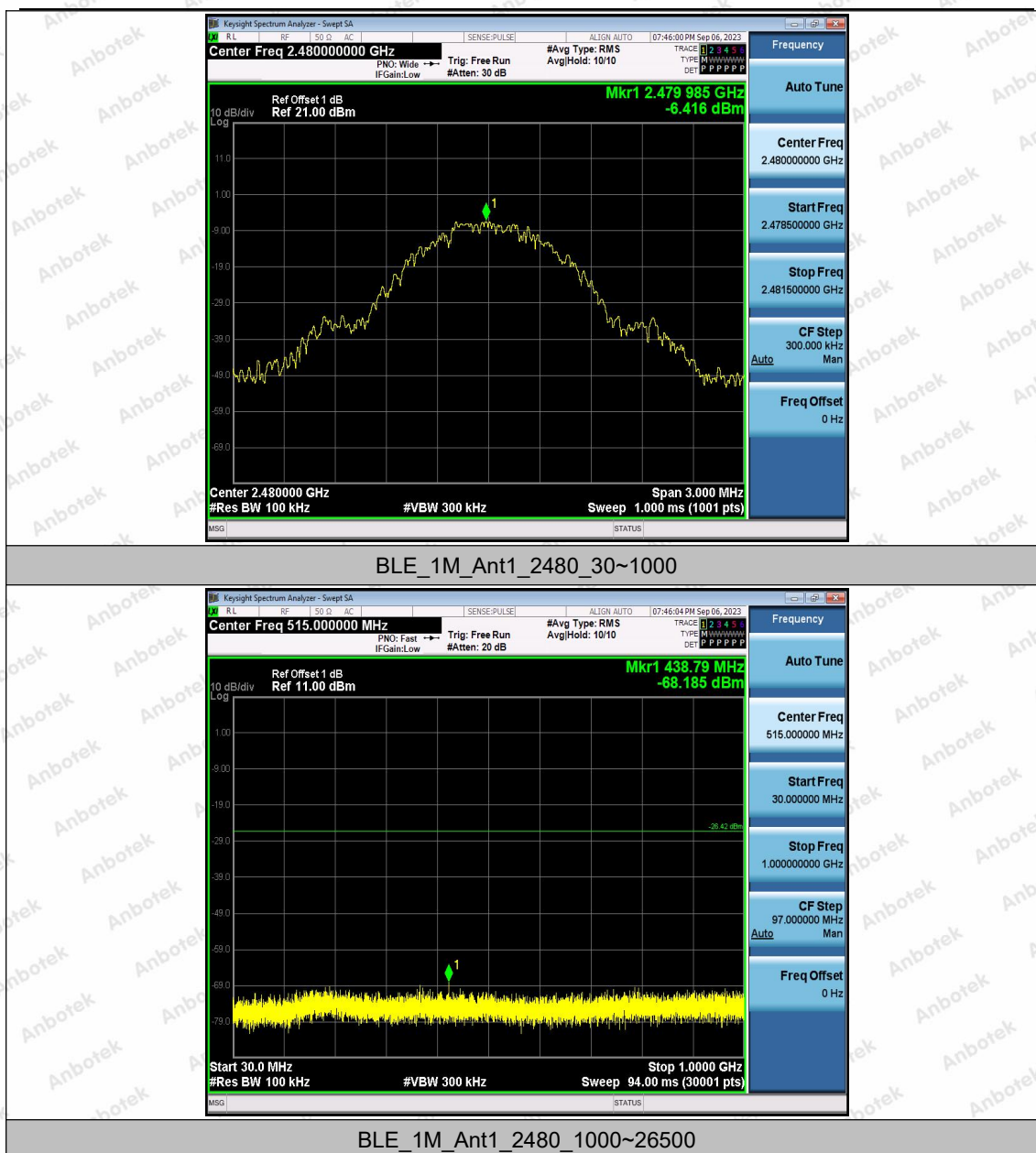
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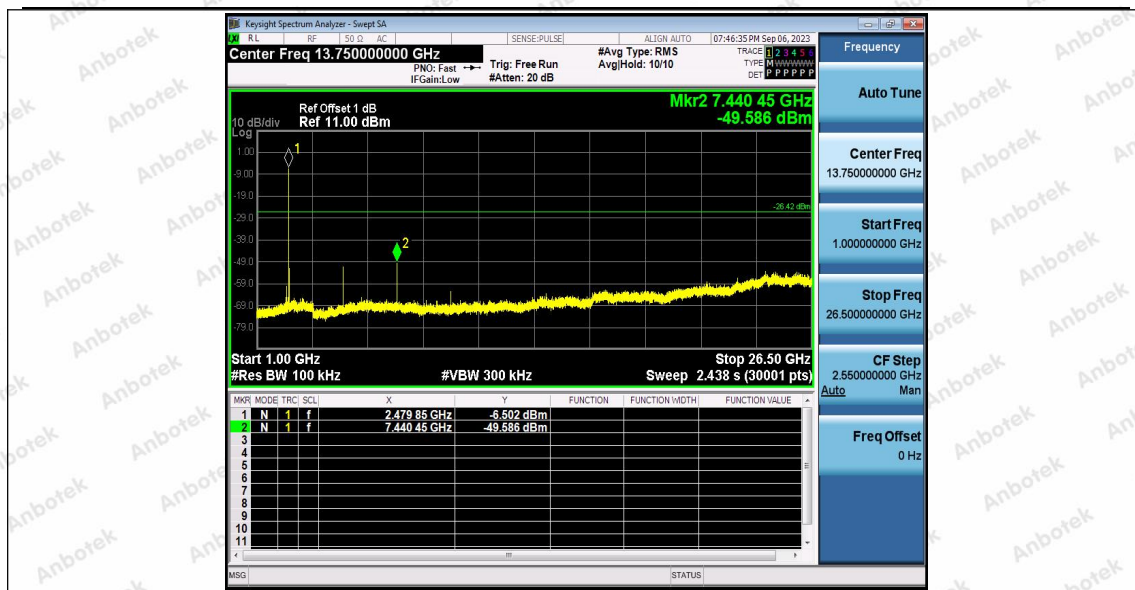
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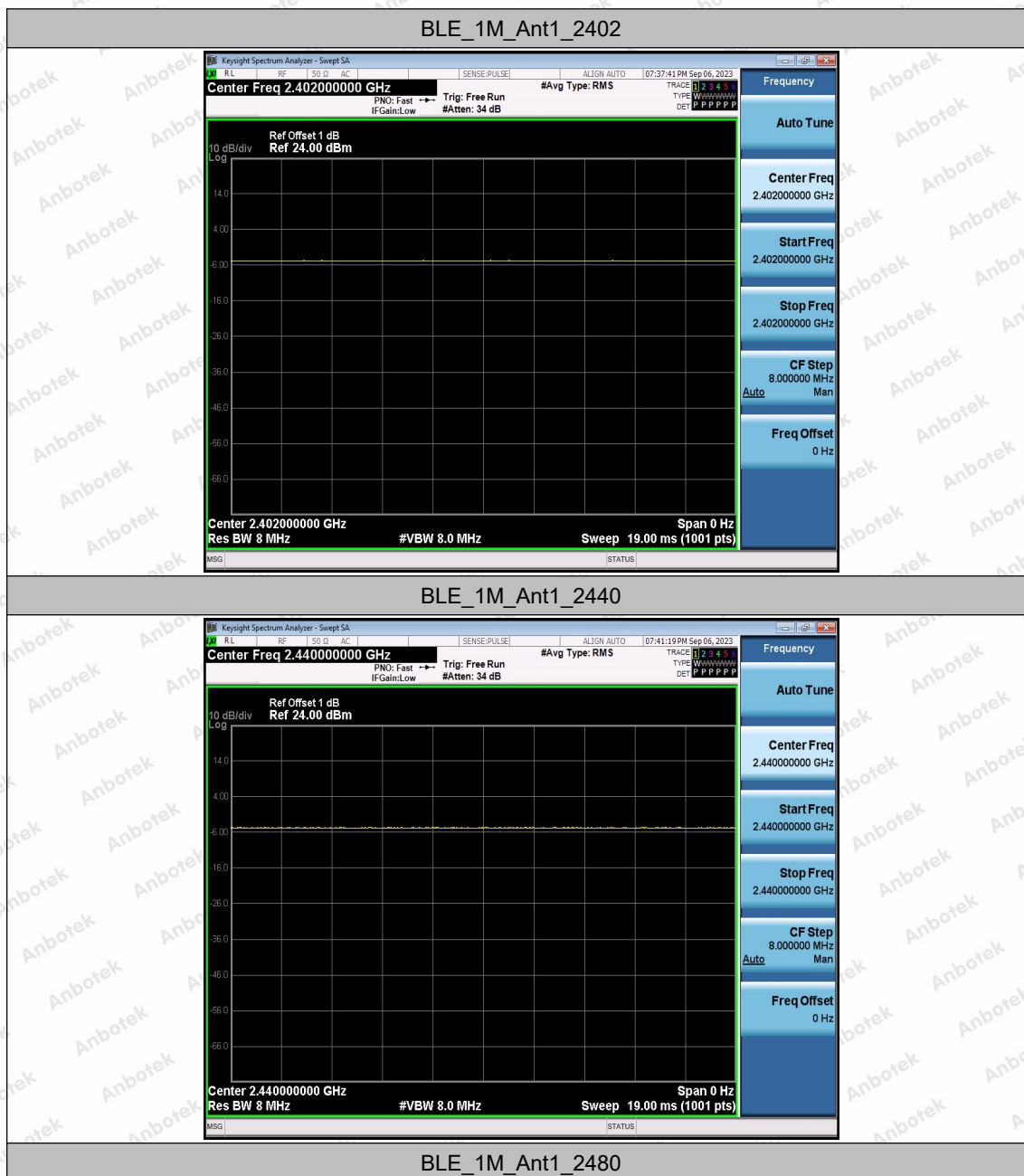
Appendix G: Duty Cycle

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



Test Graphs



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