

Appendix Test Data

Report No.:	18220WC30088101	Test Sample No.:	1-2-2
Start Test Date:	2023.05.12	Finish Test Date:	2023.05.19
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.0	Relative Humidity:	50%
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	0.672	2401.668	2402.340	0.5	PASS
		2440	0.672	2439.664	2440.336	0.5	PASS
		2480	0.664	2479.676	2480.340	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

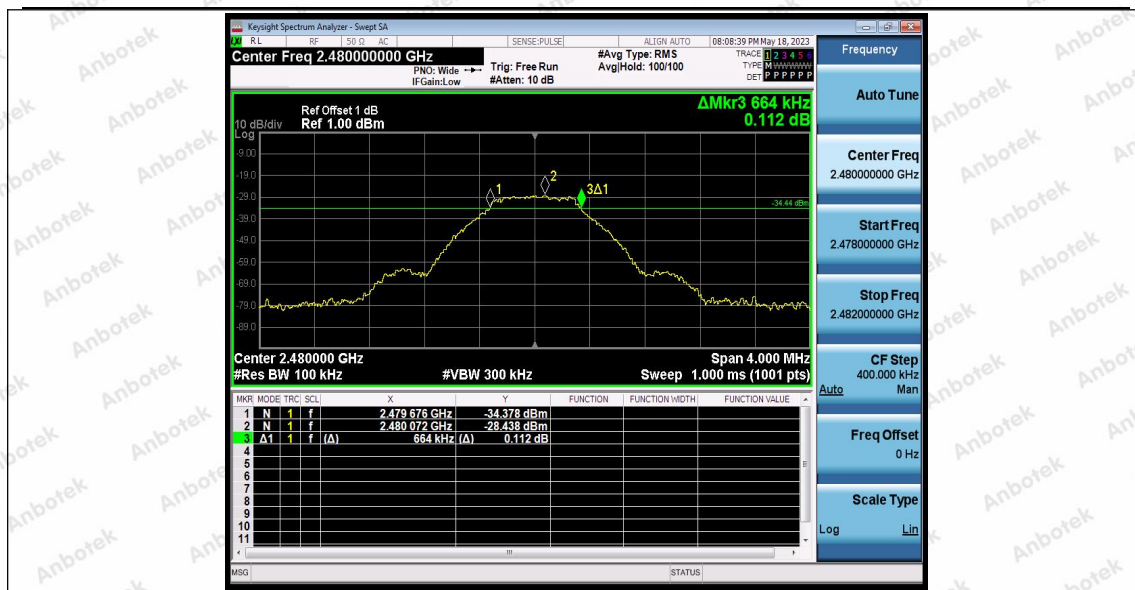
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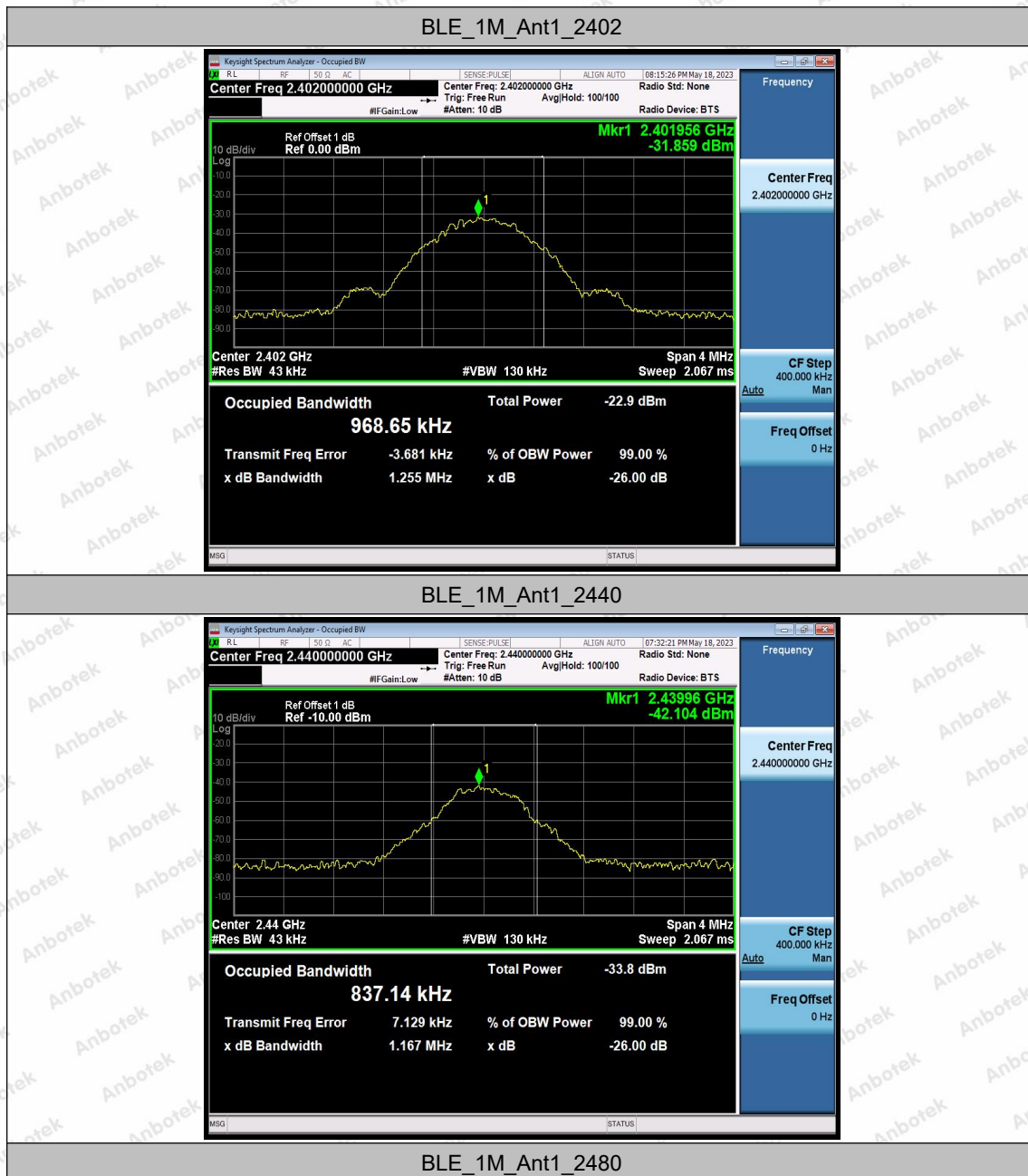
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	0.96865	2401.5120	2402.4806
		2440	0.83714	2439.5886	2440.4257
		2480	0.98286	2479.5022	2480.4850



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	-29.62	≤30	PASS
		2440	-29.18	≤30	PASS
		2480	-28.71	≤30	PASS

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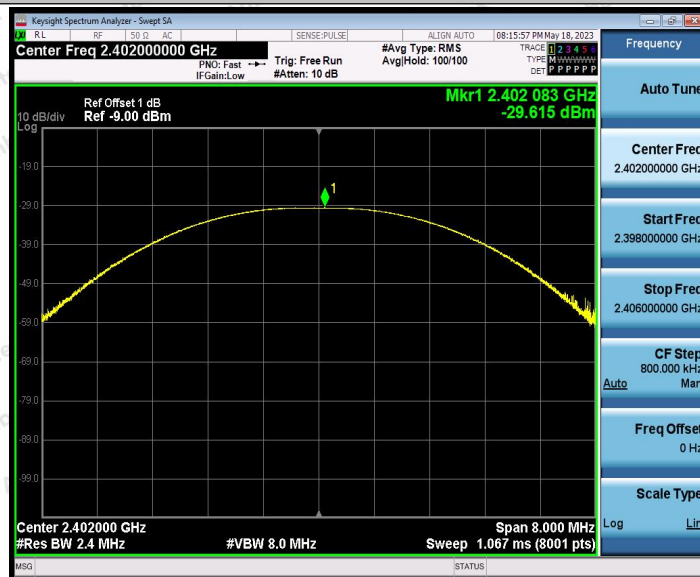


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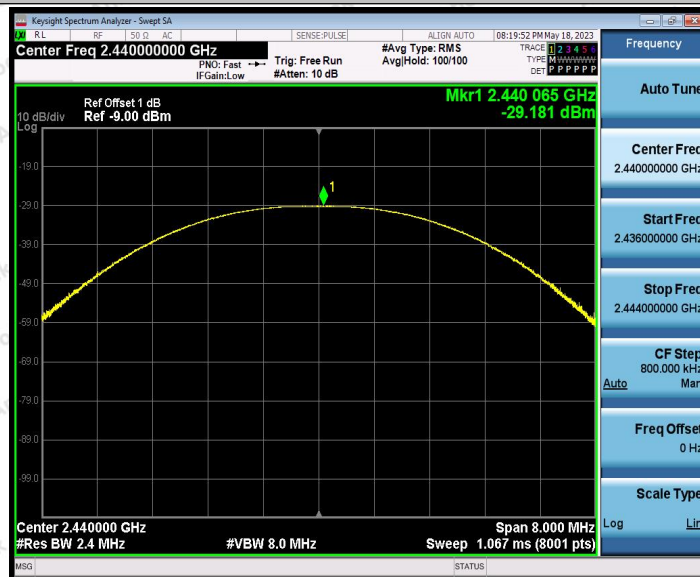


Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

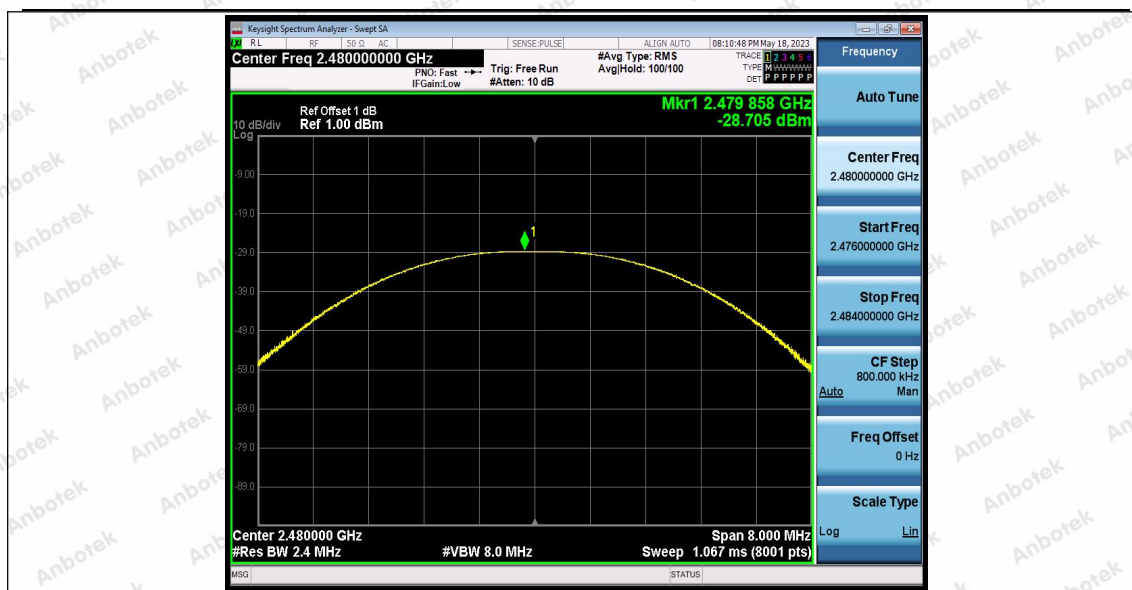
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-44.90	≤8.00	PASS
		2440	-41.52	≤8.00	PASS
		2480	-42.36	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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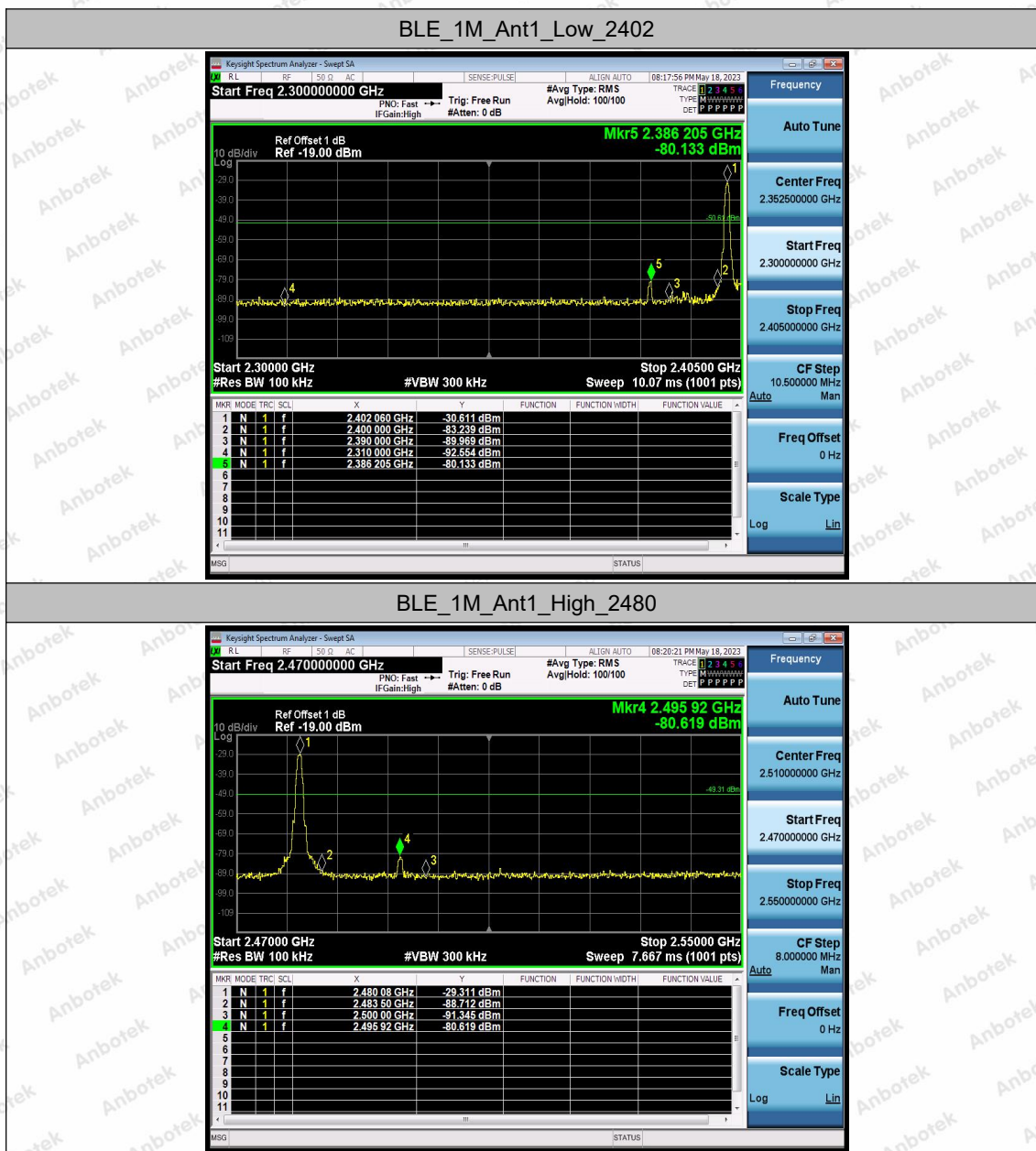
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-30.61	-80.13	≤-50.61	PASS
		High	2480	-29.31	-80.62	≤-49.31	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	-30.87	-30.87	---	PASS
			30~1000	-30.87	-68.57	≤-50.87	PASS
			1000~26500	-30.87	-72.16	≤-50.87	PASS
		2440	Reference	-27.51	-27.51	---	PASS
			30~1000	-27.51	-69.6	≤-47.51	PASS
			1000~26500	-27.51	-59.42	≤-47.51	PASS
		2480	Reference	-28.64	-28.64	---	PASS
			30~1000	-28.64	-69.72	≤-48.64	PASS
			1000~26500	-28.64	-63.64	≤-48.64	PASS

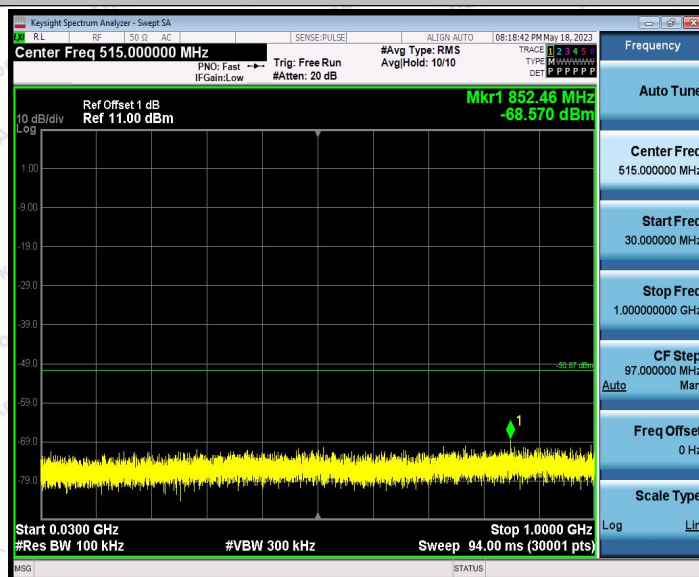


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

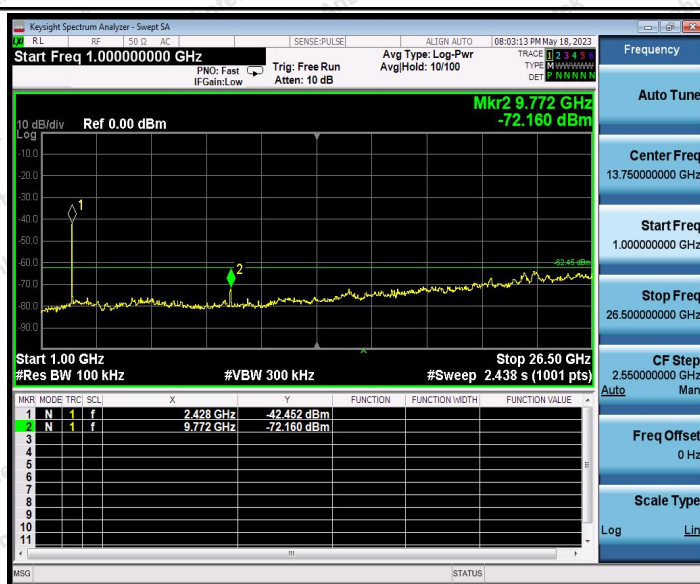
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

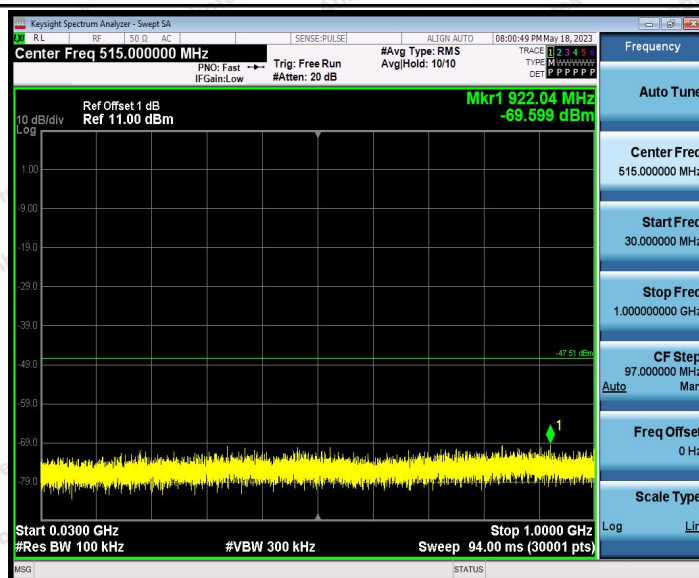
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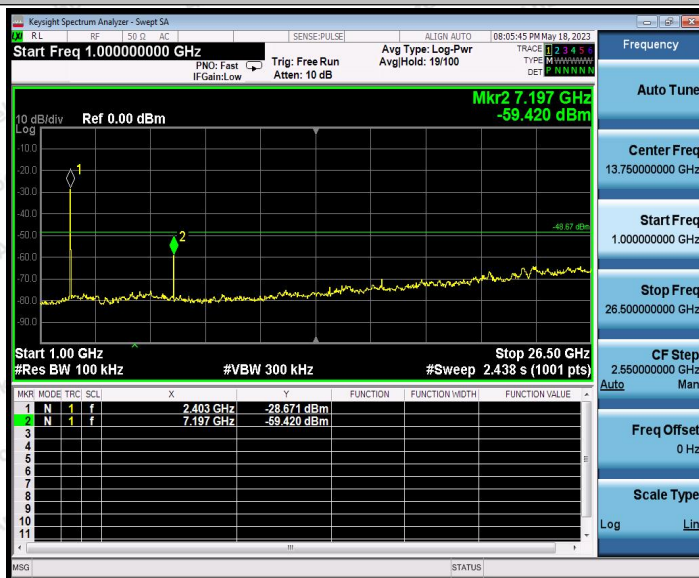


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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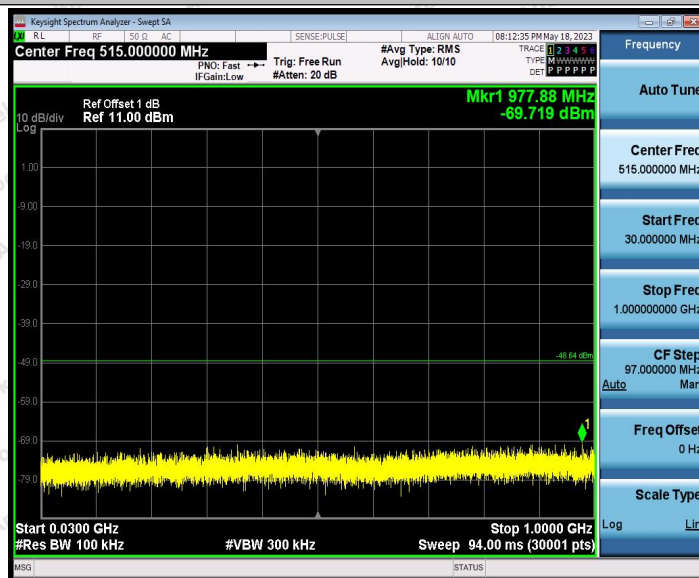


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

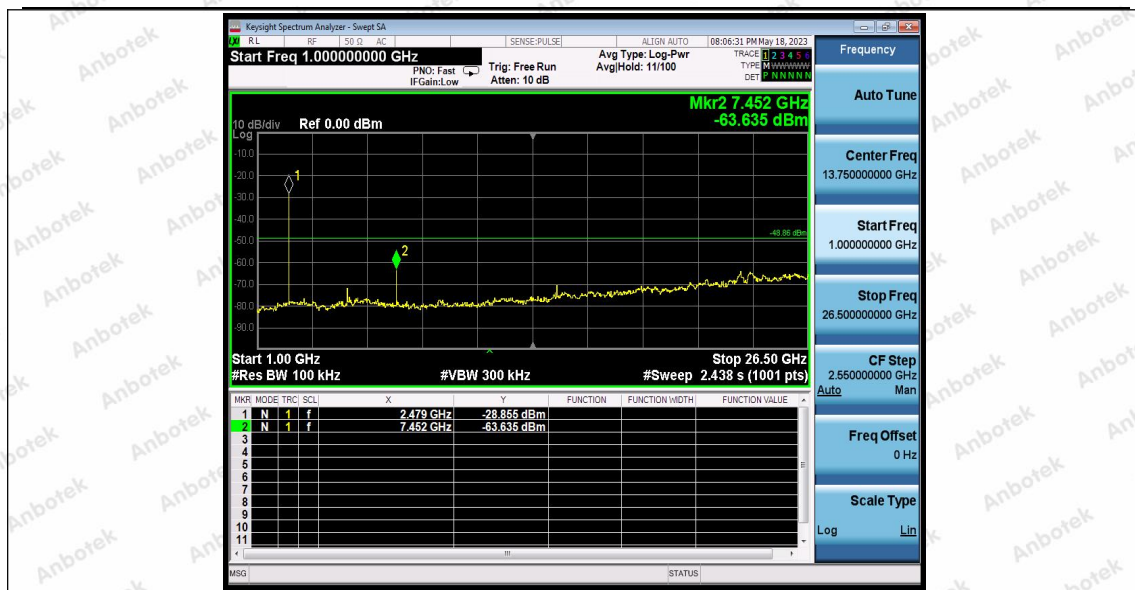
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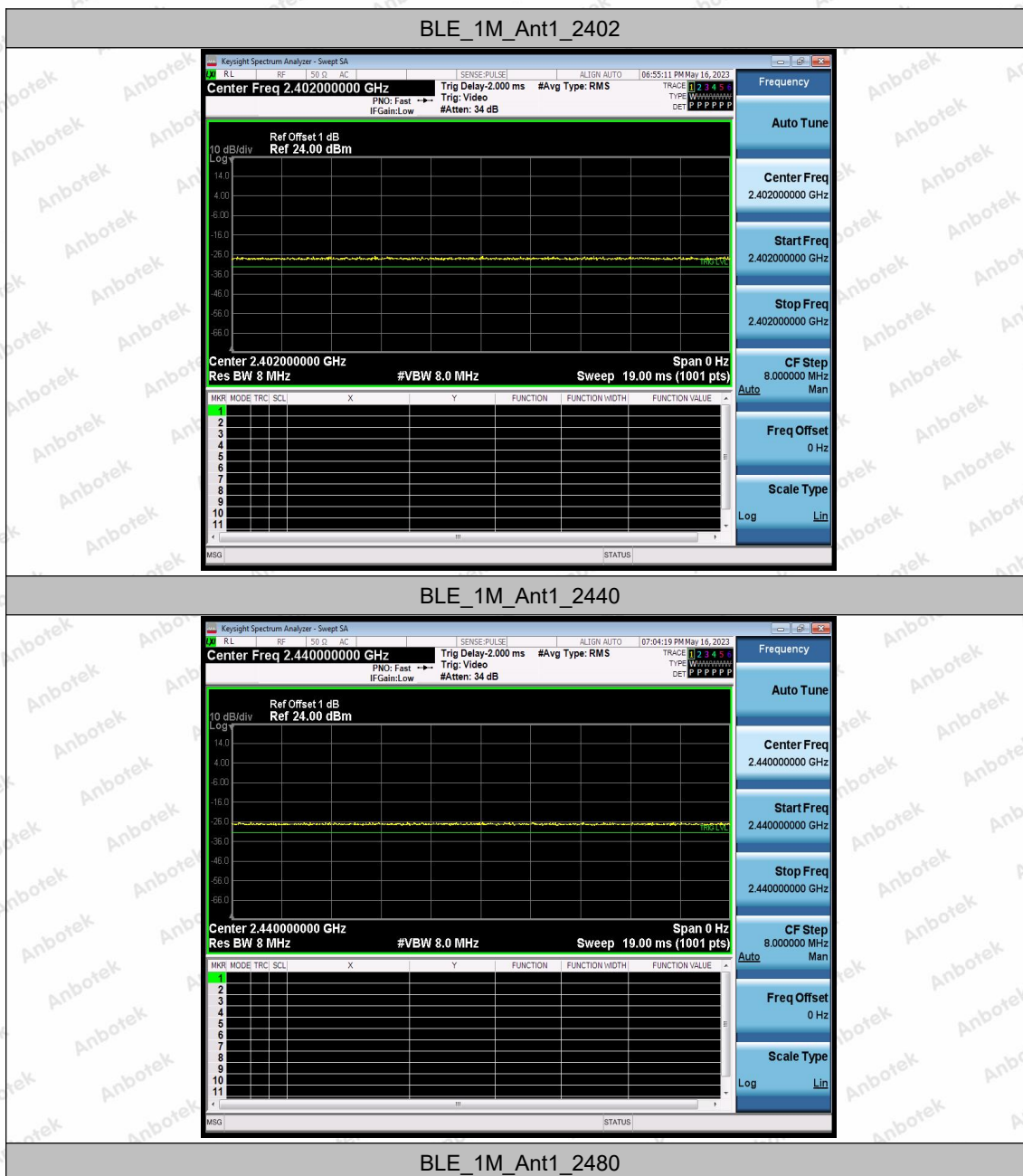
Appendix G: Duty Cycle

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	100.00	0.00
		2440	19.00	19.00	100.00	0.00
		2480	19.00	19.00	100.00	0.00



Test Graphs



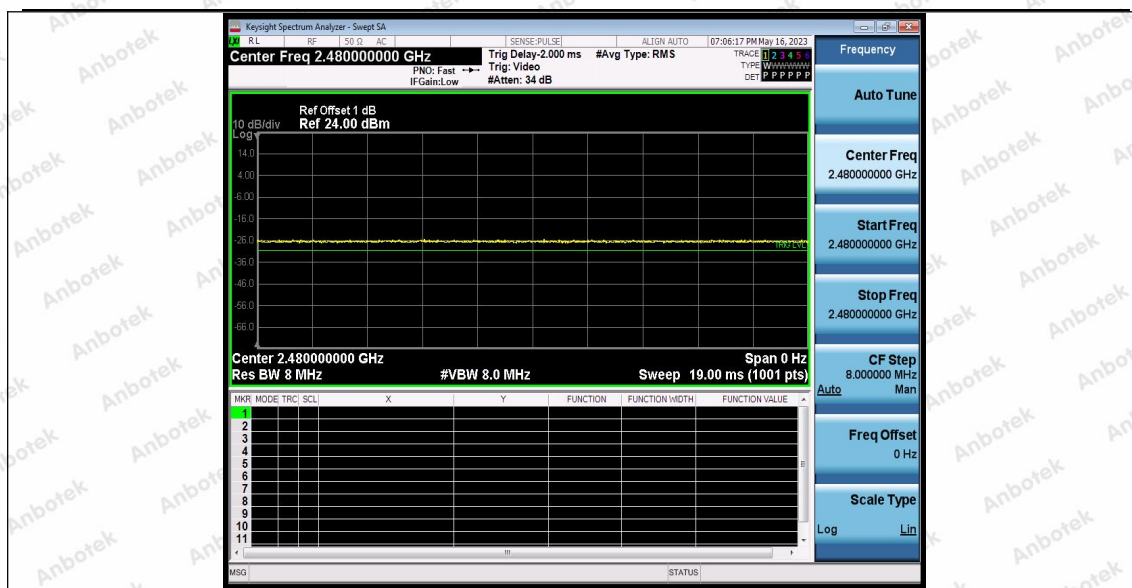
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