

Appendix Test Data

Report No.:	18220WC20197201	Test Sample No.:	1-2-2
Start Test Date:	2022.8.24	Finish Test Date:	2022.8.27
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	0.676	2401.652	2402.328	0.5	PASS
		2440	0.676	2439.668	2440.344	0.5	PASS
		2480	0.684	2479.660	2480.344	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

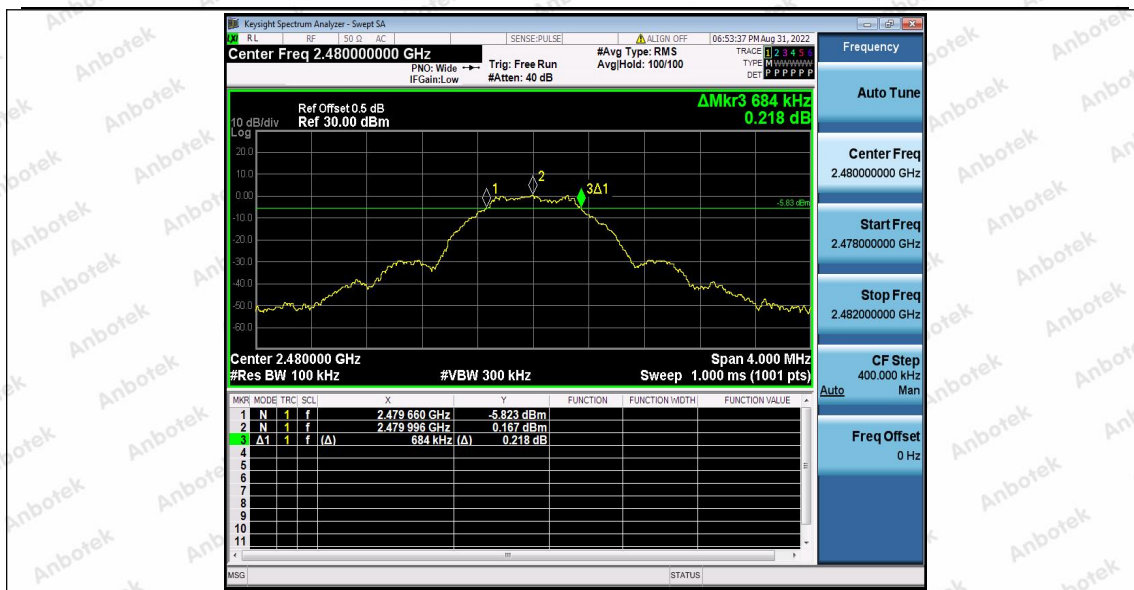
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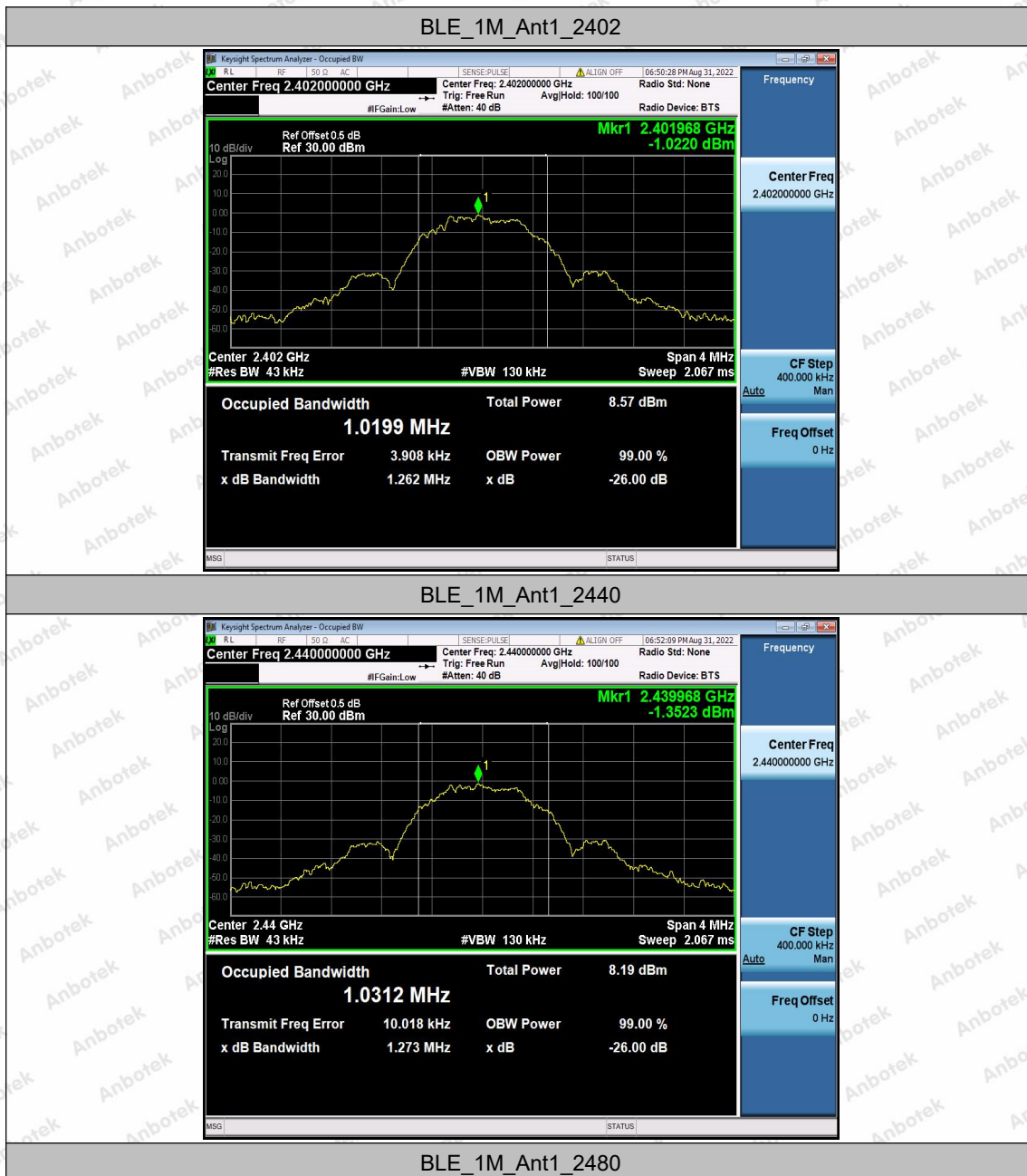
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0199	2401.4940	2402.5139
		2440	1.0312	2439.4944	2440.5256
		2480	1.0265	2479.4983	2480.5248



Test Graphs



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Appendix C: Maximum conducted output power

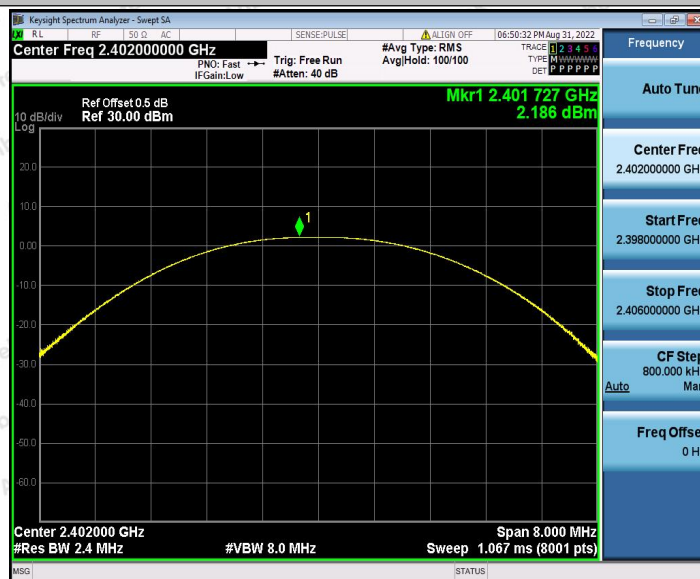
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.19	≤30	PASS
		2440	1.82	≤30	PASS
		2480	1.07	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

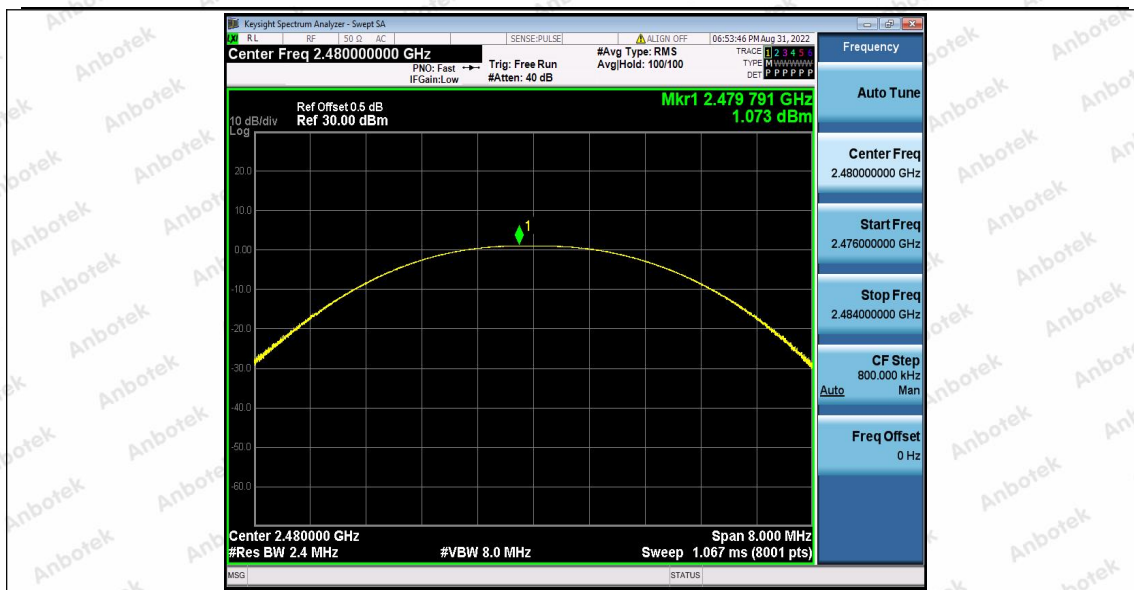
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.04	≤8.00	PASS
		2440	-13.4	≤8.00	PASS
		2480	-14.13	≤8.00	PASS

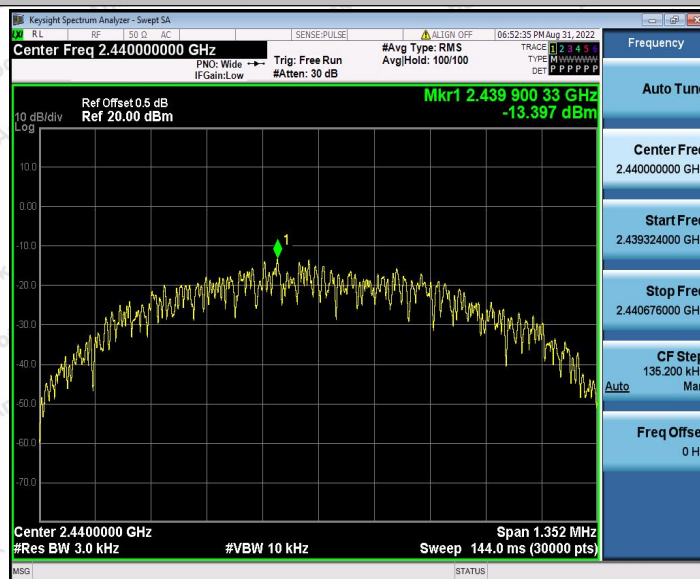


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

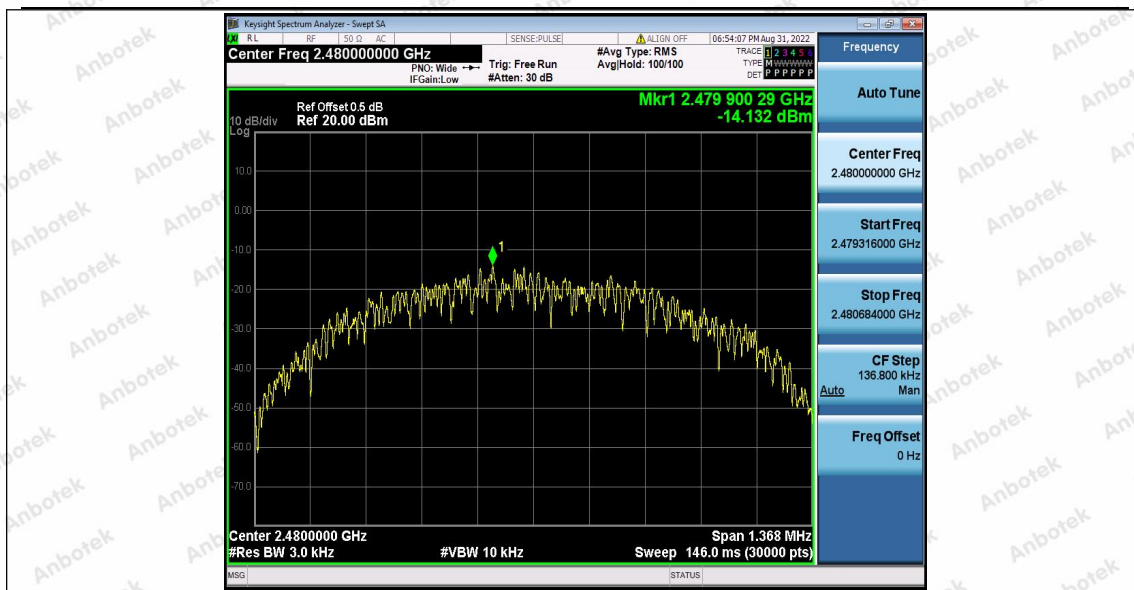
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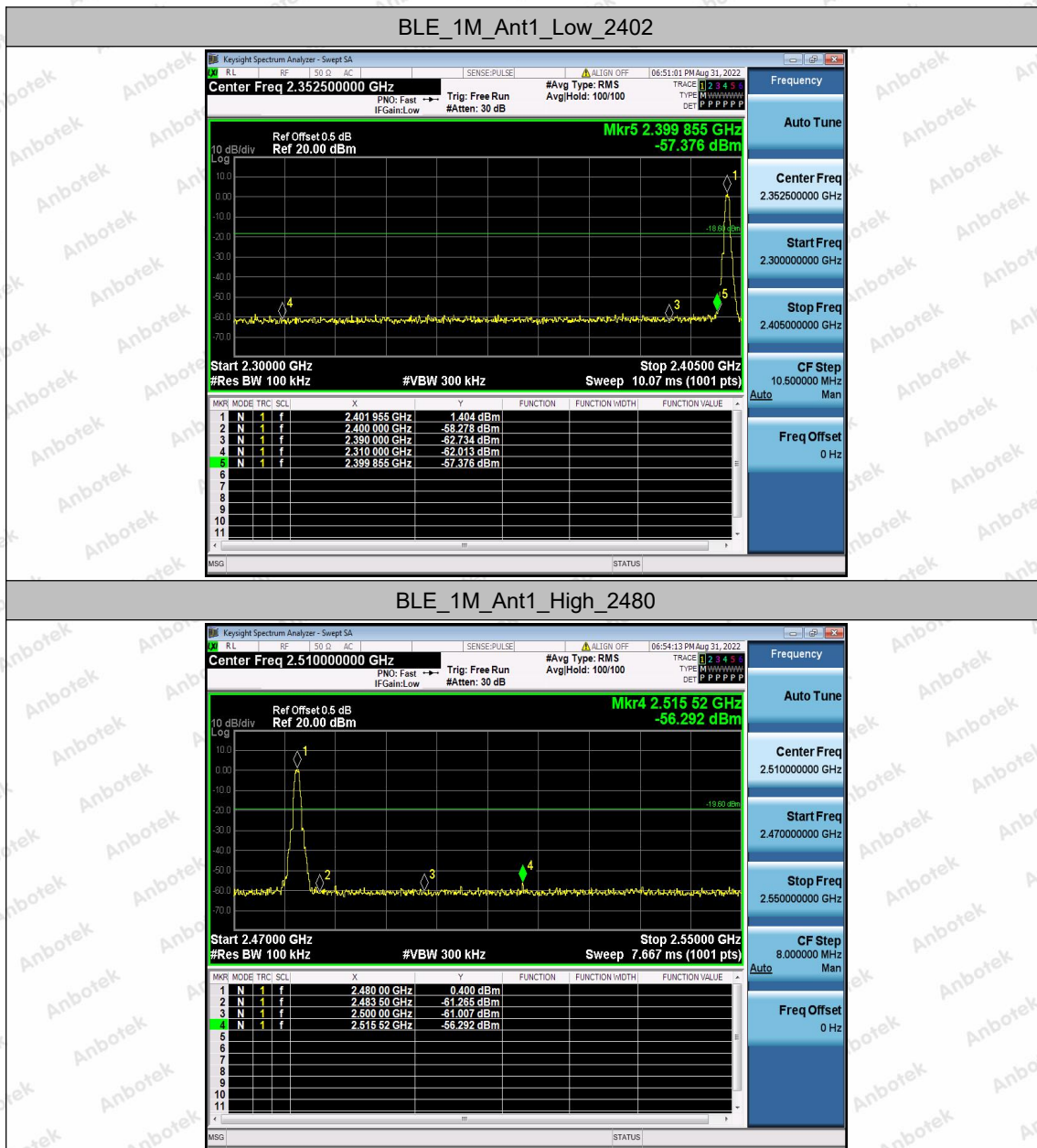
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.40	-57.38	≤-18.6	PASS
		High	2480	0.40	-56.29	≤-19.6	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	1.20	1.20	---	PASS
			30~1000	1.20	-68.85	≤-28.8	PASS
			1000~26500	1.20	-53.92	≤-28.8	PASS
		2440	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-69.77	≤-29.11	PASS
			1000~26500	0.89	-51.76	≤-29.11	PASS
		2480	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-70.19	≤-29.89	PASS
			1000~26500	0.11	-53.72	≤-29.89	PASS

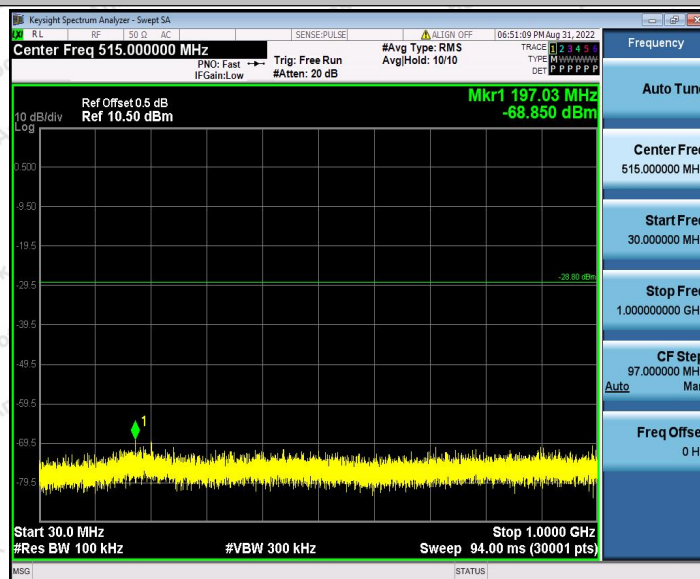


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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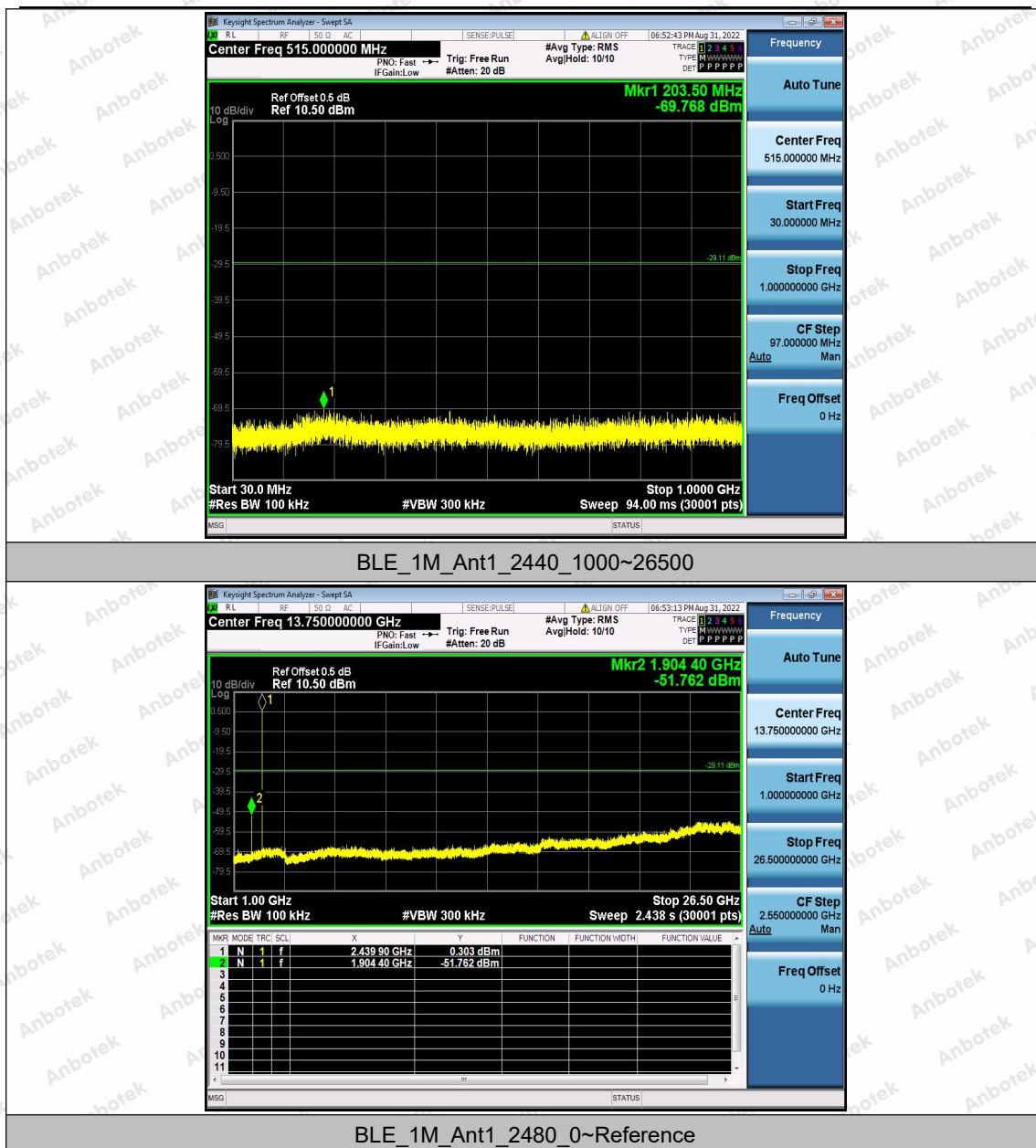


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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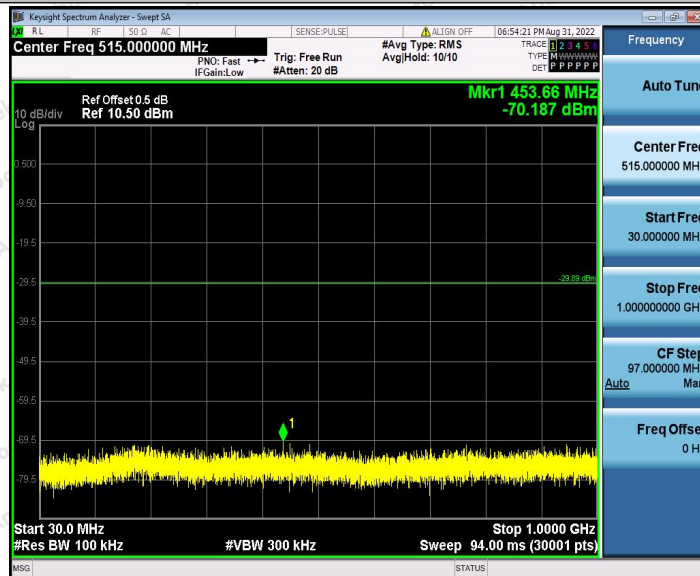


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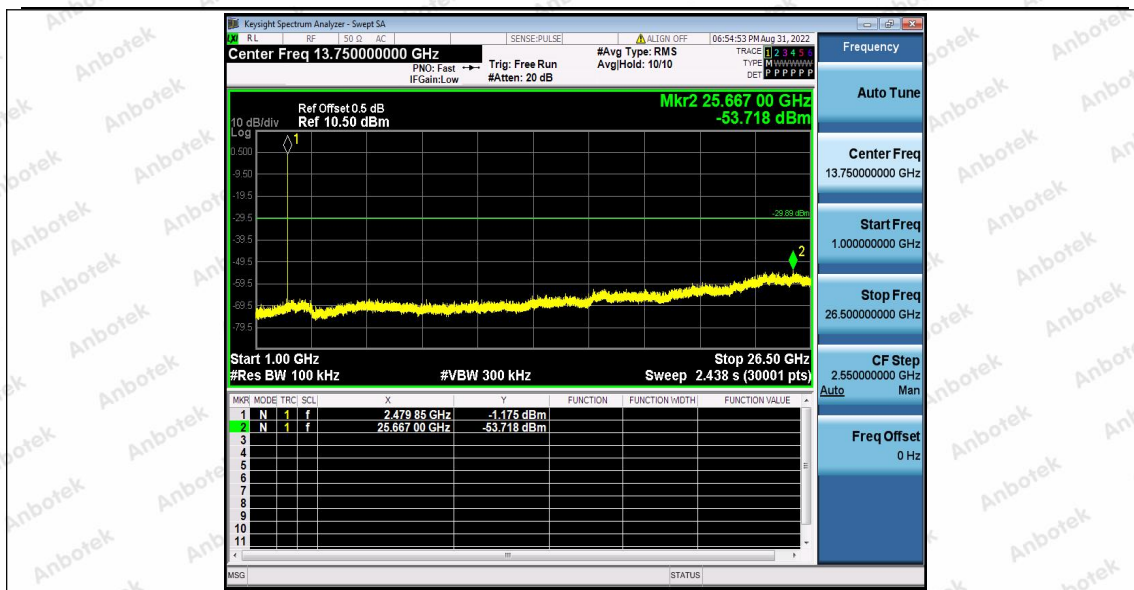


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



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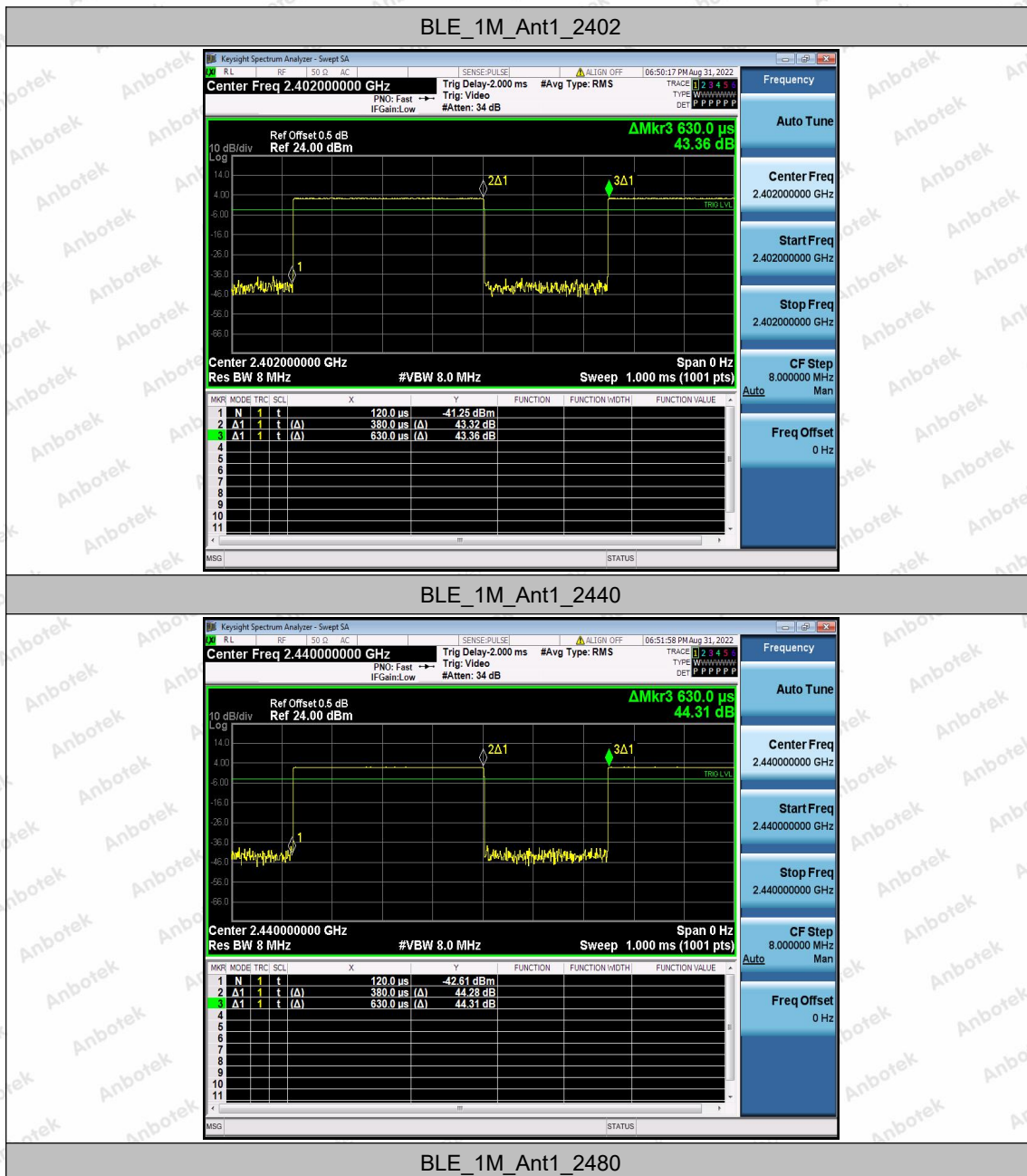
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.38	0.63	60.32	2.20
		2480	0.38	0.63	60.32	2.20



Test Graphs



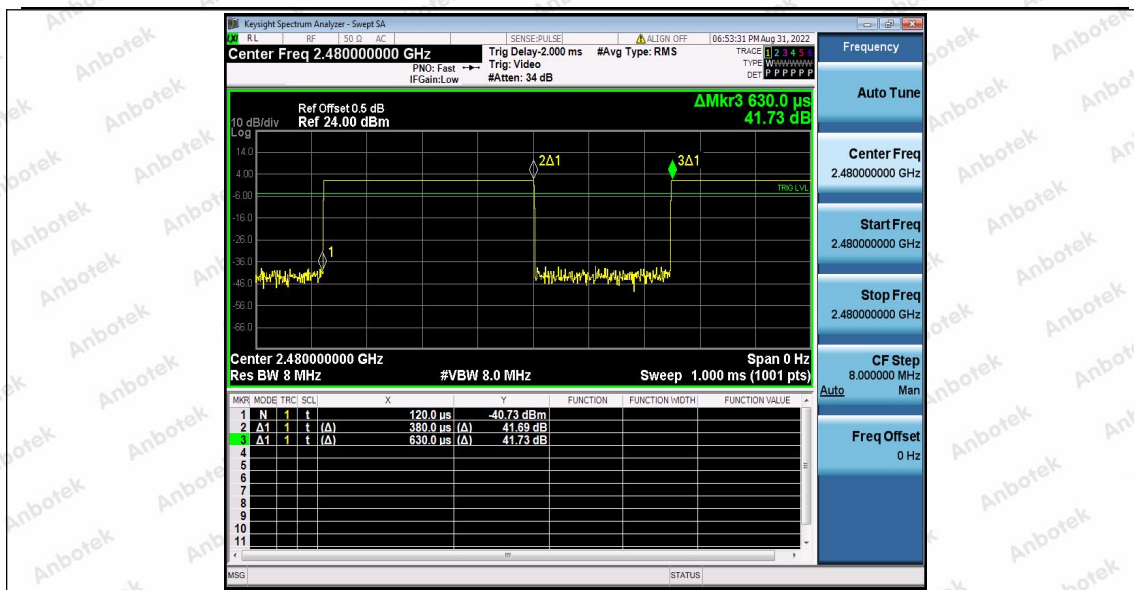
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