

Appendix Test Data

Report No.:	18220WC30065502	Test Sample No.:	1-2-2
Start Test Date:	2023.4.17	Finish Test Date:	2023.4.18
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

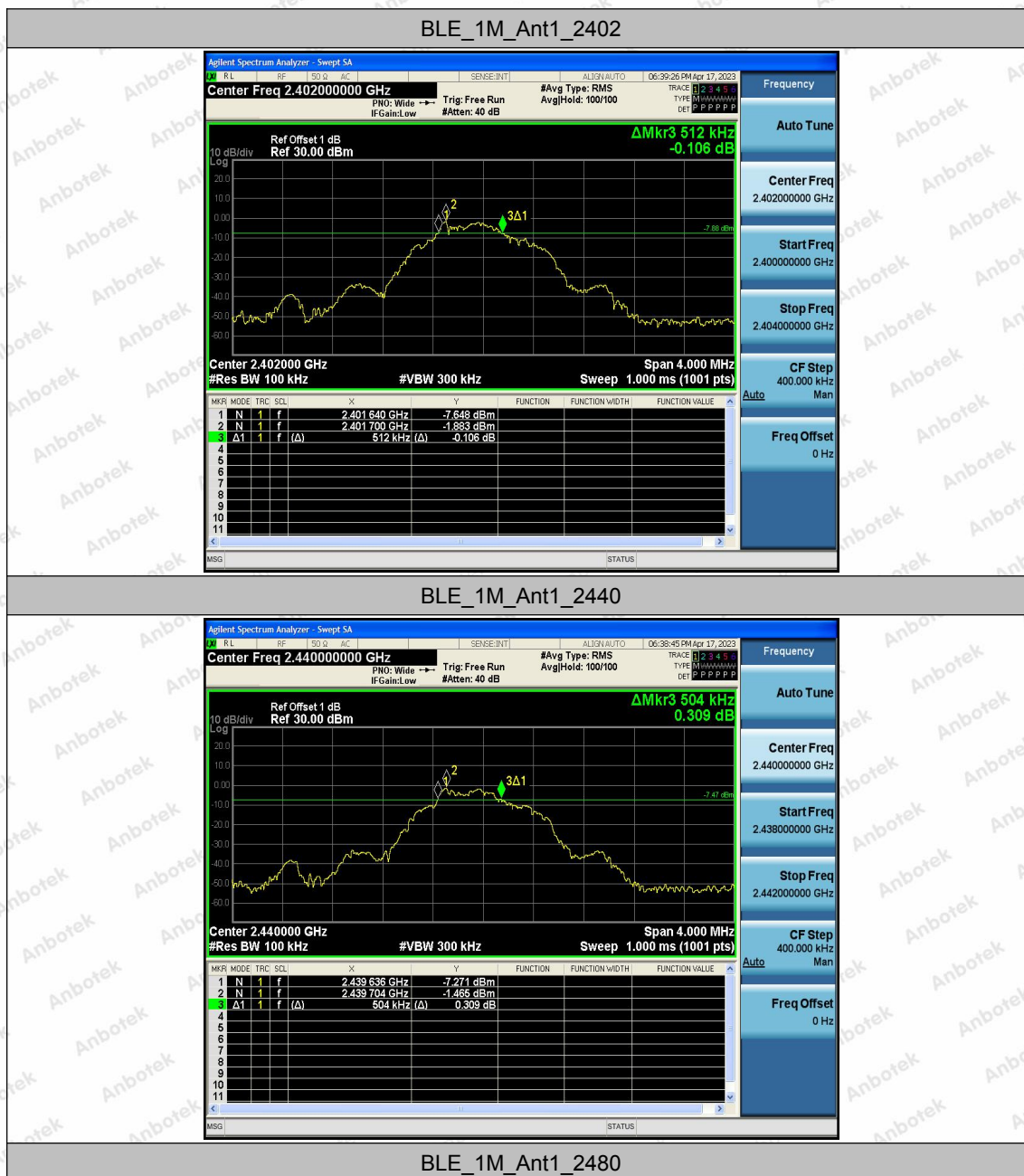
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.512	2401.640	2402.152	≥0.5	PASS
		2440	0.504	2439.636	2440.140	≥0.5	PASS
		2480	0.504	2479.636	2480.140	≥0.5	PASS



Test Graphs



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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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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	1.0370	2401.4489	2402.4859
		2440	1.0156	2439.4599	2440.4755
		2480	1.0238	2479.4534	2480.4772



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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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	-1.27	≤30	PASS
		2440	-1.37	≤30	PASS
		2480	-0.15	≤30	PASS

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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	-19.62	≤8.00	PASS
		2440	-19.57	≤8.00	PASS
		2480	-18.31	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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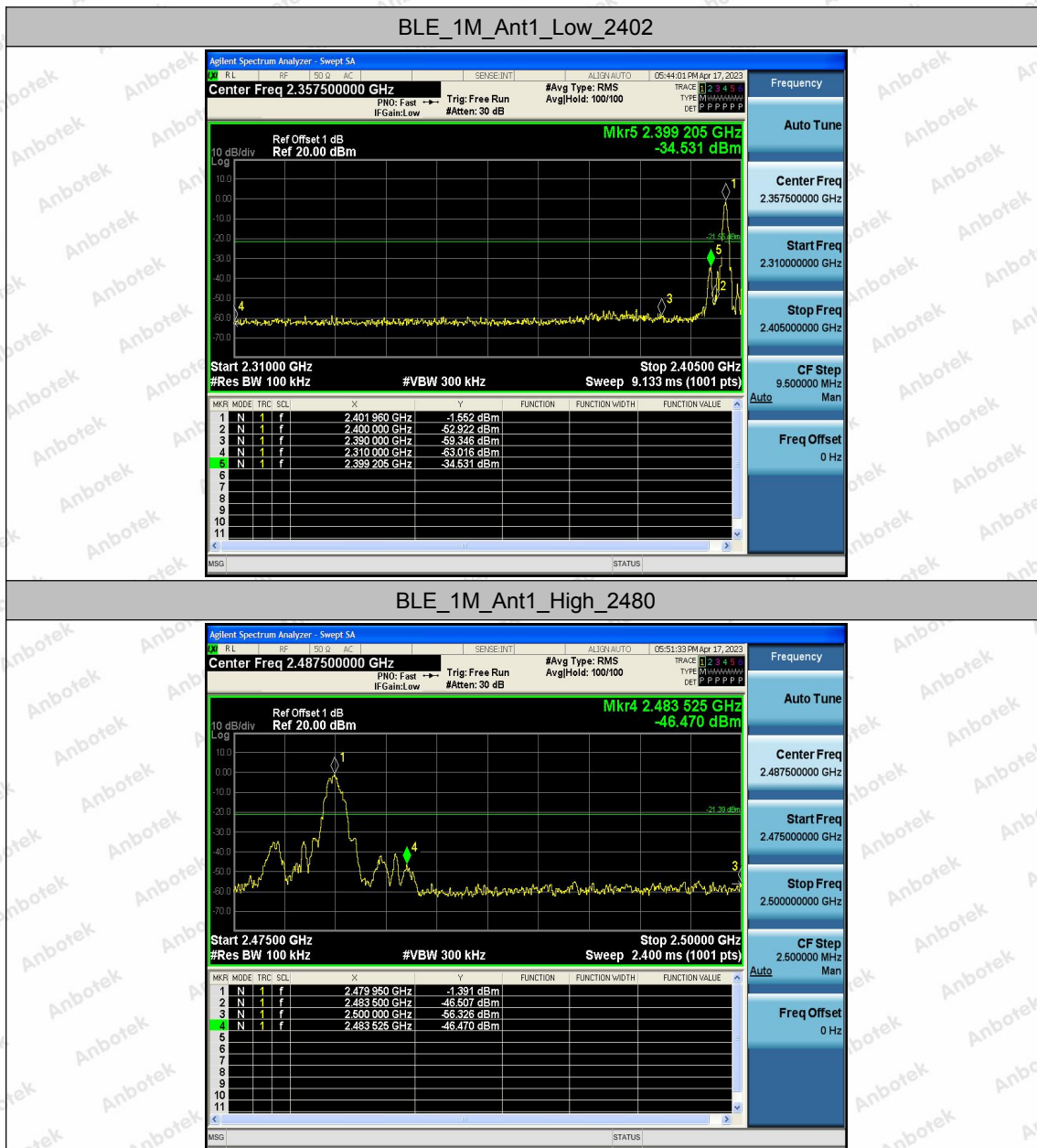
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.55	-34.53	≤-21.55	PASS
		High	2480	-1.39	-46.47	≤-21.39	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	-1.71	-1.71	---	PASS
			30~1000	-1.71	-35.86	≤-21.71	PASS
			1000~26500	-1.71	-50.56	≤-21.71	PASS
		2440	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-57.57	≤-21.52	PASS
			1000~26500	-1.52	-51.02	≤-21.52	PASS
		2480	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-58	≤-20.33	PASS
			1000~26500	-0.33	-48.96	≤-20.33	PASS

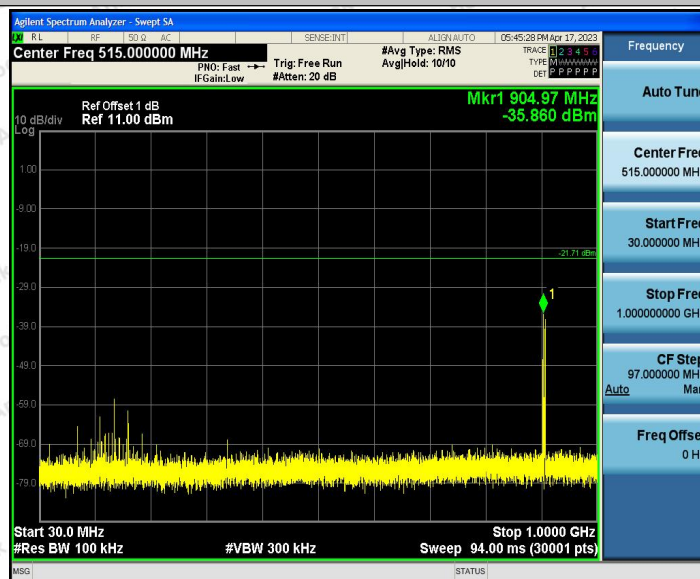


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

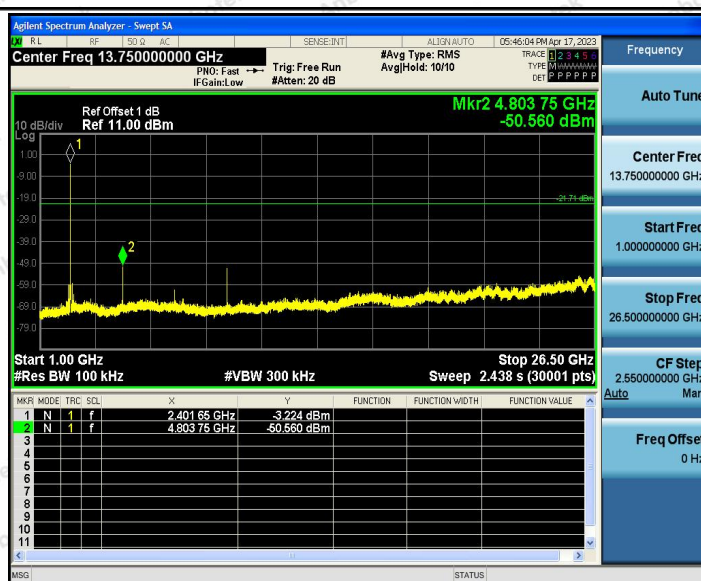
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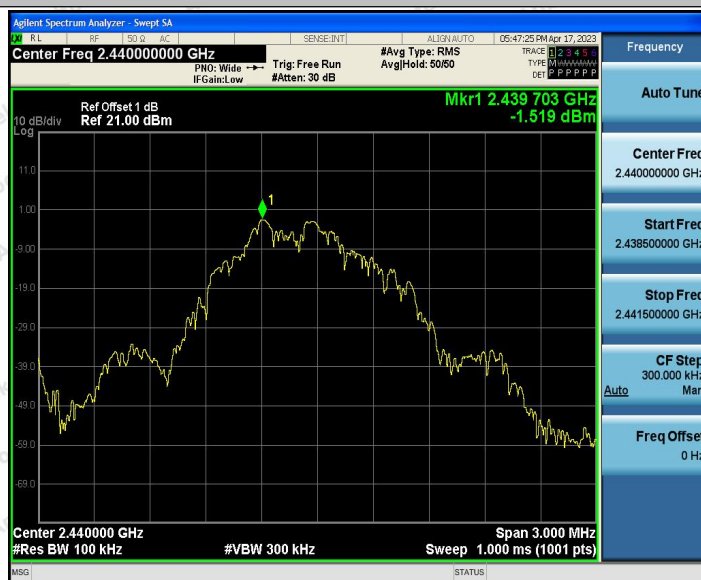


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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

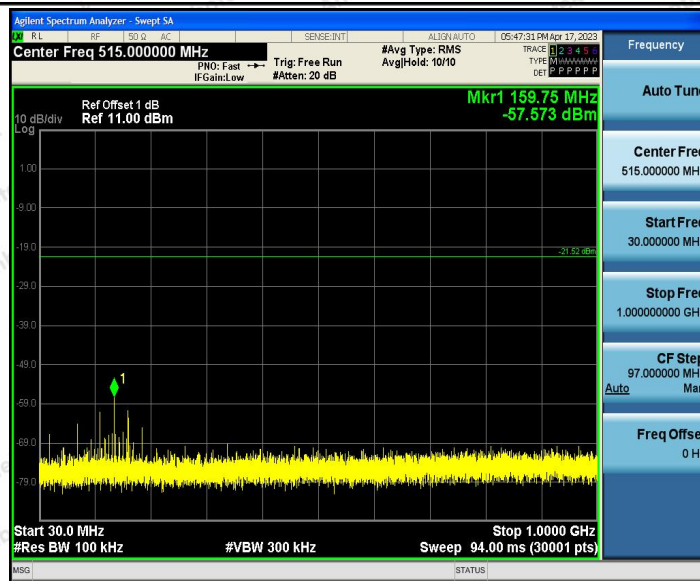
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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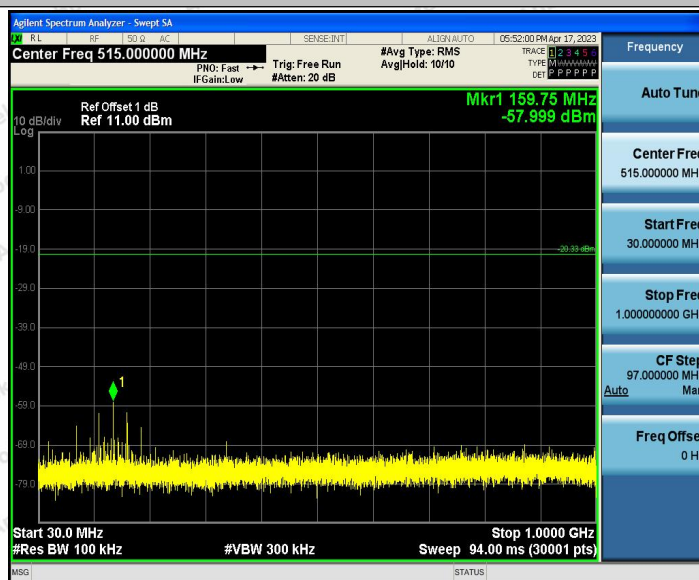
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

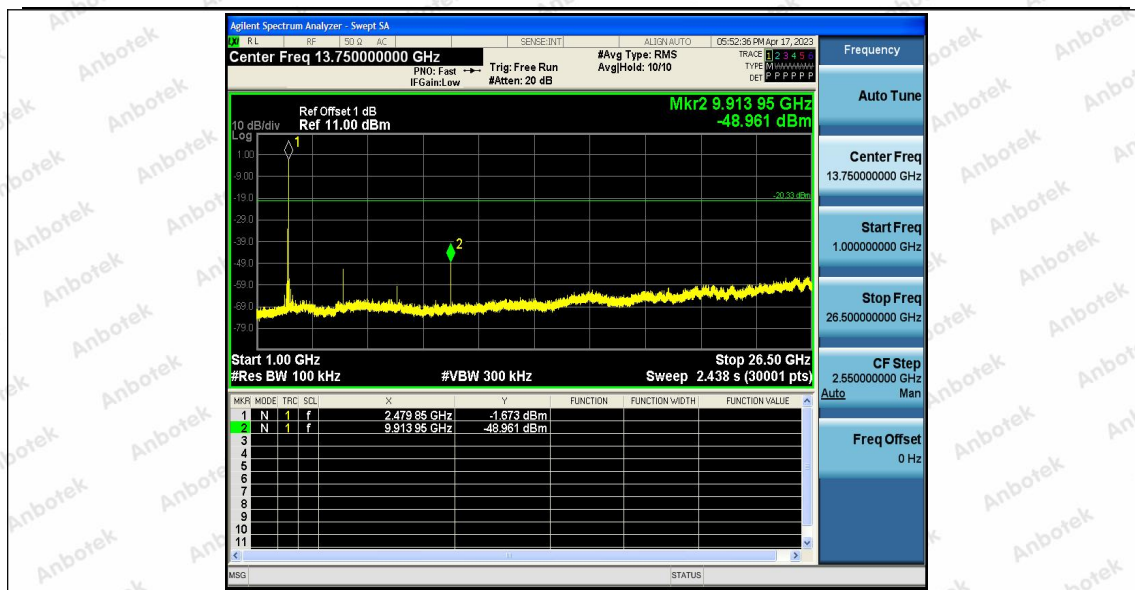
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Appendix G: Duty Cycle

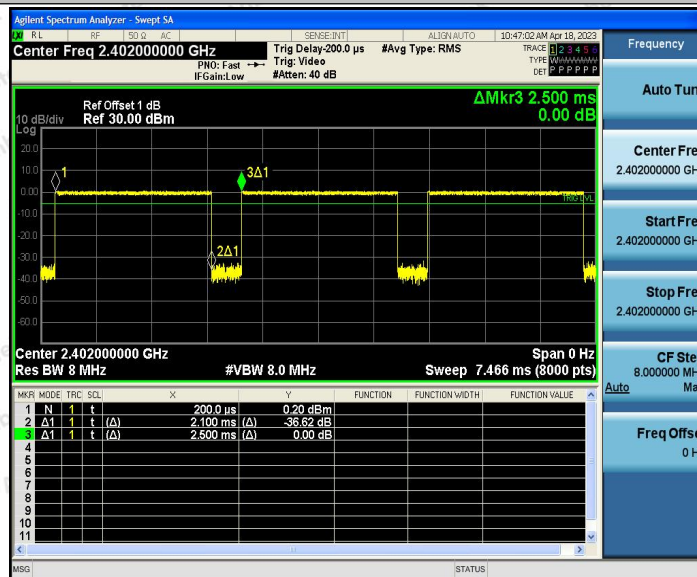
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.09	2.50	83.60	0.78

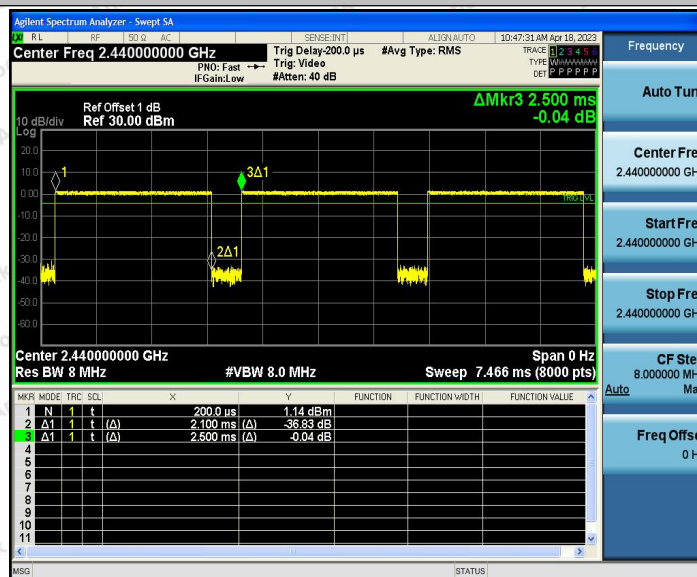


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

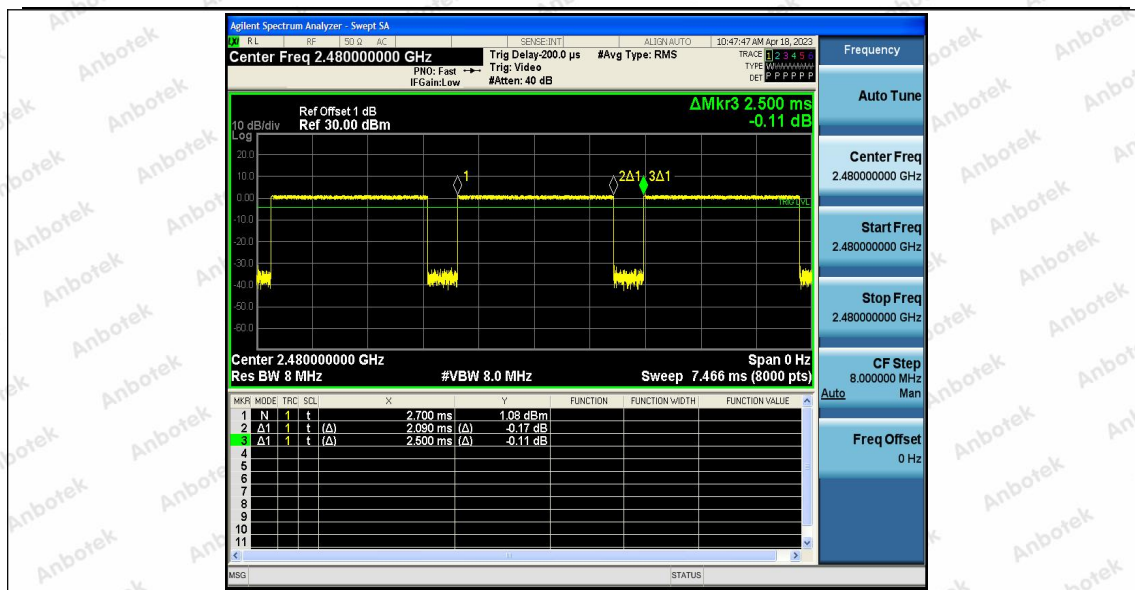
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