

Appendix Test Data

Report No.:	18220WC30039001	Test Sample No.:	1-2-2
Start Test Date:	2023.03.14	Finish Test Date:	2023.03.17
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.7C°	Relative Humidity:	49%
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	0.644	2401.676	2402.320	0.5	PASS
		2440	0.660	2439.672	2440.332	0.5	PASS
		2480	0.644	2479.672	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.076	2401.480	2402.556	0.5	PASS
		2440	1.096	2439.460	2440.556	0.5	PASS
		2480	1.112	2479.456	2480.568	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0303	2401.4892	2402.5195
		2440	1.0362	2439.4896	2440.5258
		2480	1.0359	2479.4902	2480.5261
BLE_2M	Ant1	2402	2.0930	2400.9731	2403.0661
		2440	2.0970	2438.9690	2441.0660
		2480	2.0869	2478.9755	2481.0624



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_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	1.34	≤30	PASS
		2440	1.35	≤30	PASS
		2480	1.37	≤30	PASS
BLE_2M	Ant1	2402	1.34	≤30	PASS
		2440	1.39	≤30	PASS
		2480	1.38	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

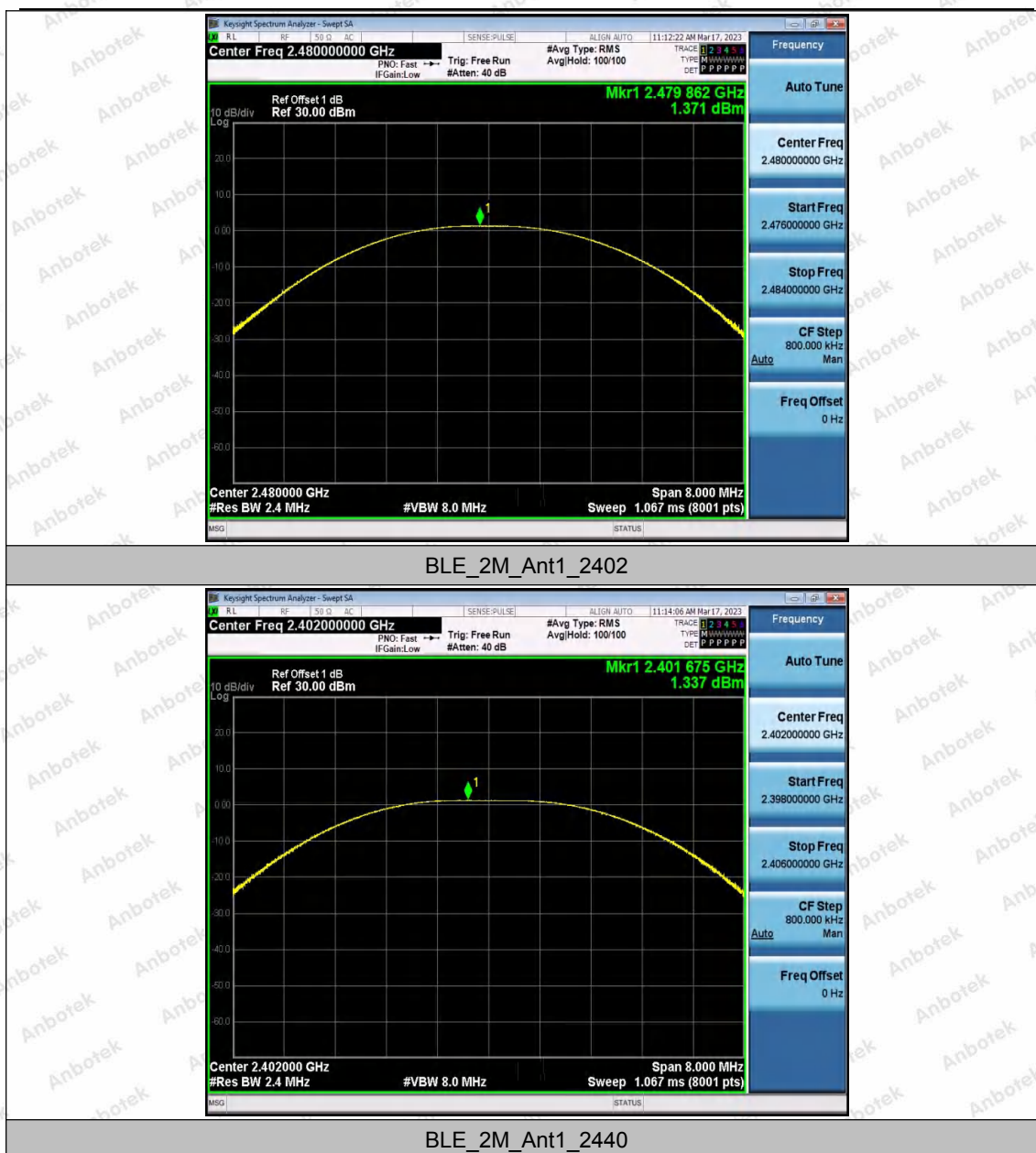
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.64	≤8.00	PASS
		2440	-13.63	≤8.00	PASS
		2480	-13.59	≤8.00	PASS
BLE_2M	Ant1	2402	-14.97	≤8.00	PASS
		2440	-14.96	≤8.00	PASS
		2480	-14.95	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE 2M Ant1 2402



BLE 2M Ant1 2440

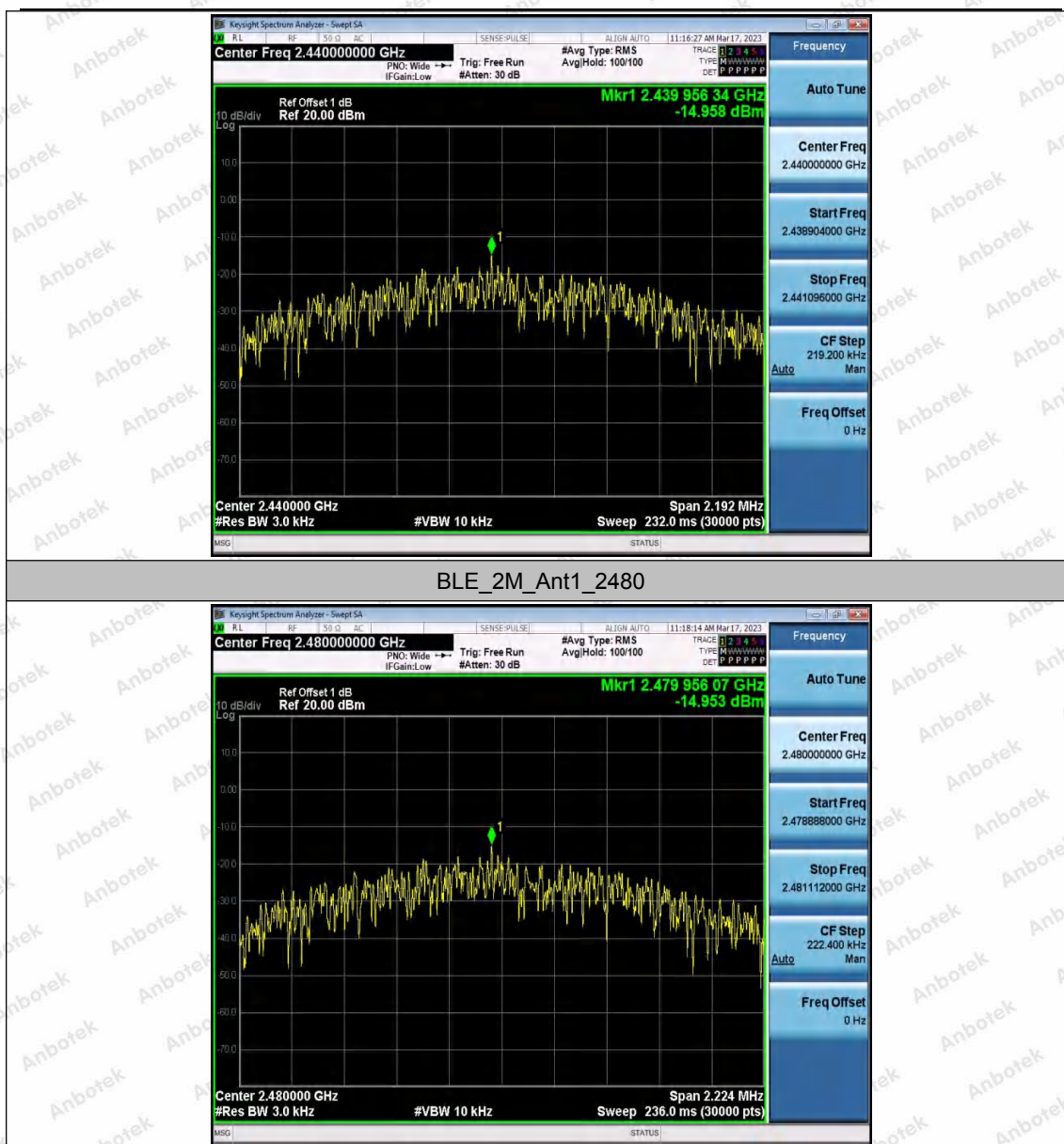
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Appendix E: Band edge measurements

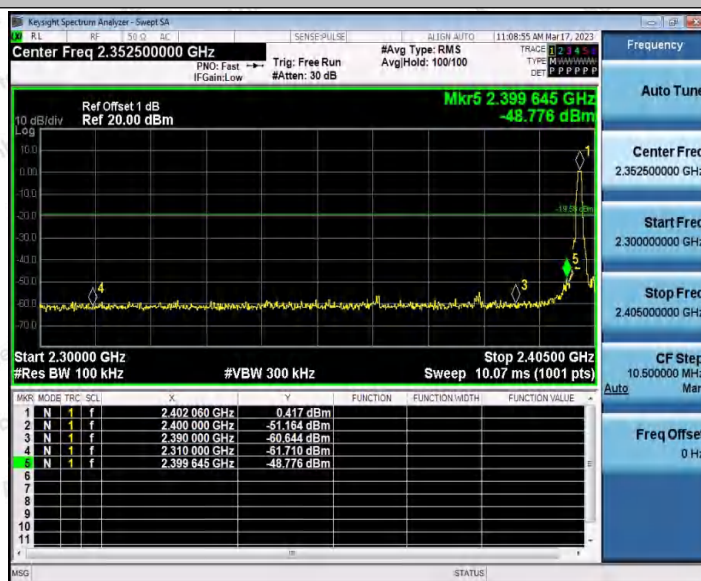
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.42	-48.78	≤-19.58	PASS
		High	2480	0.57	-53.5	≤-19.43	PASS
BLE_2M	Ant1	Low	2402	0.08	-31.1	≤-19.92	PASS
		High	2480	0.07	-53.3	≤-19.93	PASS

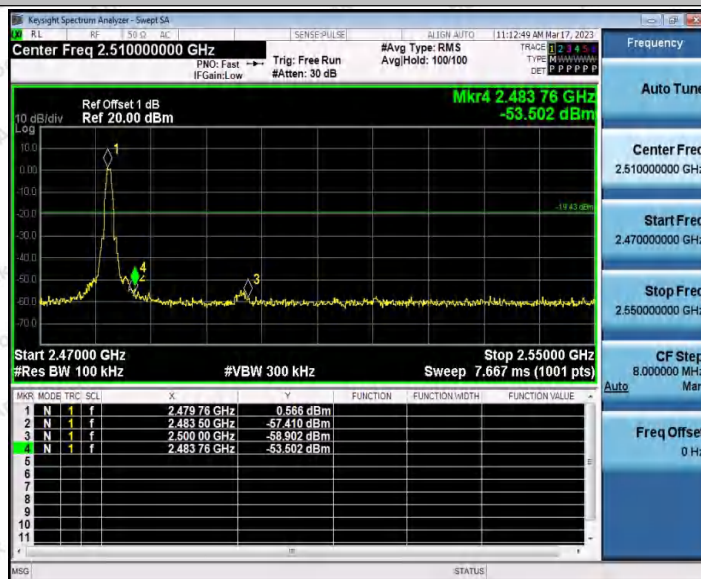


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

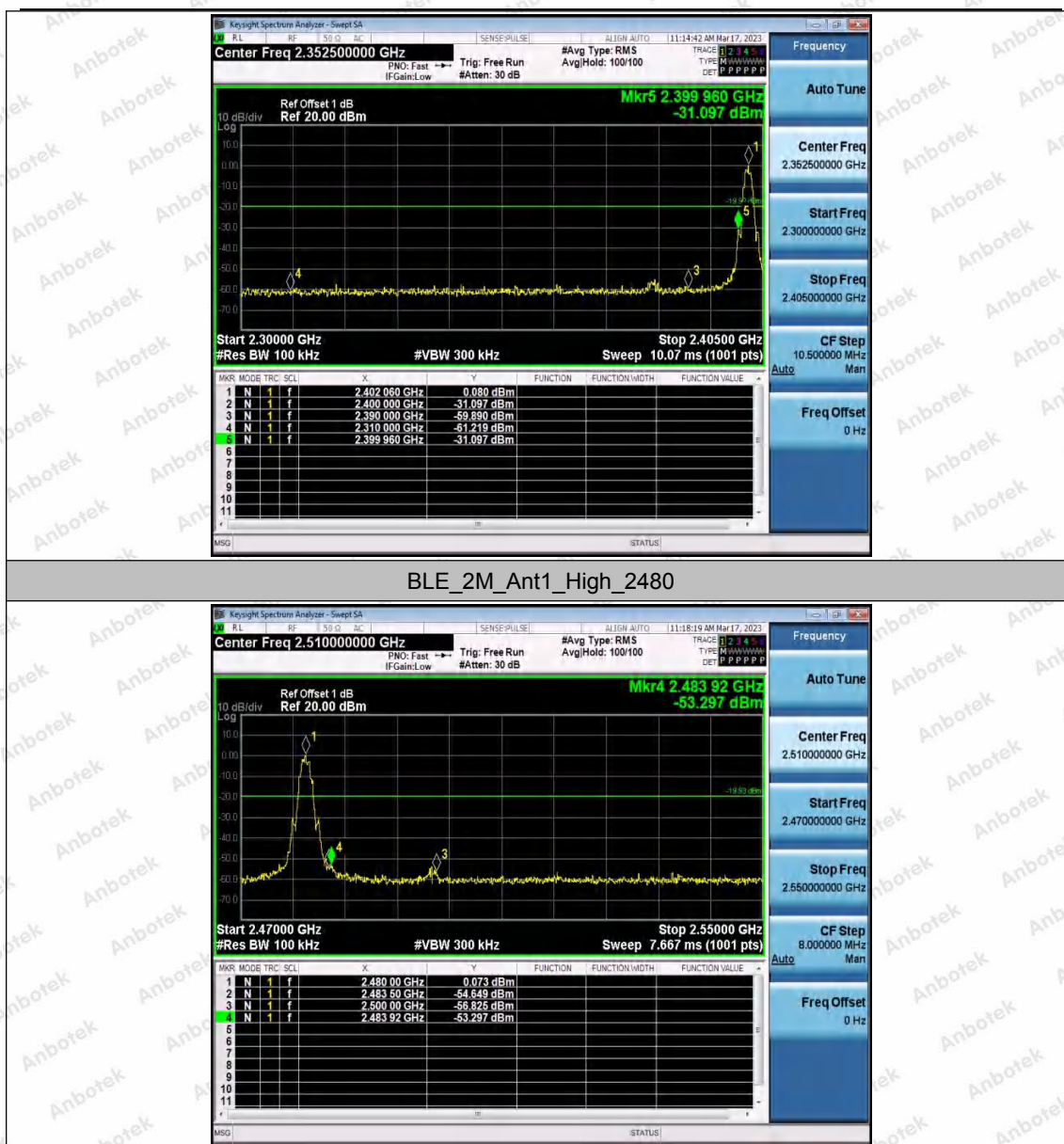
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-57.63	≤-20.19	PASS
			1000~26500	-0.19	-53.36	≤-20.19	PASS
		2440	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-57.45	≤-20.61	PASS
			1000~26500	-0.61	-52.77	≤-20.61	PASS
		2480	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-57.79	≤-20.13	PASS
			1000~26500	-0.13	-53.61	≤-20.13	PASS
BLE_2M	Ant1	2402	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-57.58	≤-20.26	PASS
			1000~26500	-0.26	-53.4	≤-20.26	PASS
		2440	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-57.29	≤-22.27	PASS
			1000~26500	-2.27	-53.36	≤-22.27	PASS
		2480	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-57.3	≤-21.39	PASS
			1000~26500	-1.39	-53.18	≤-21.39	PASS

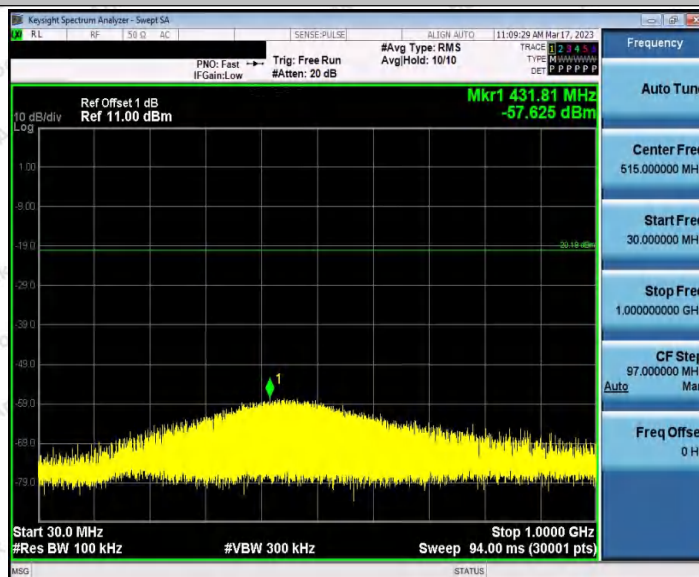


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

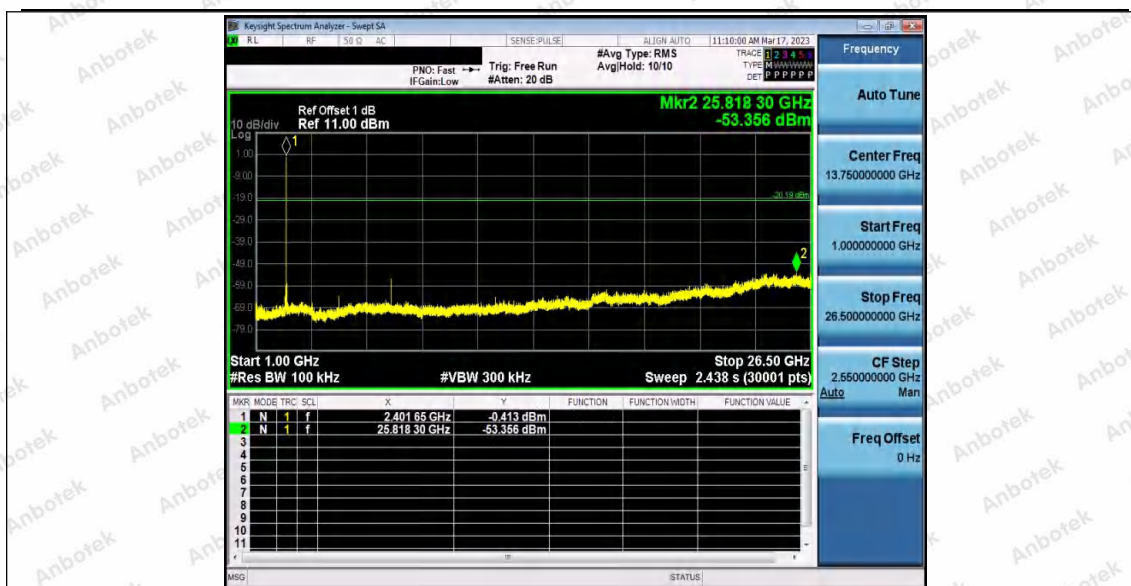
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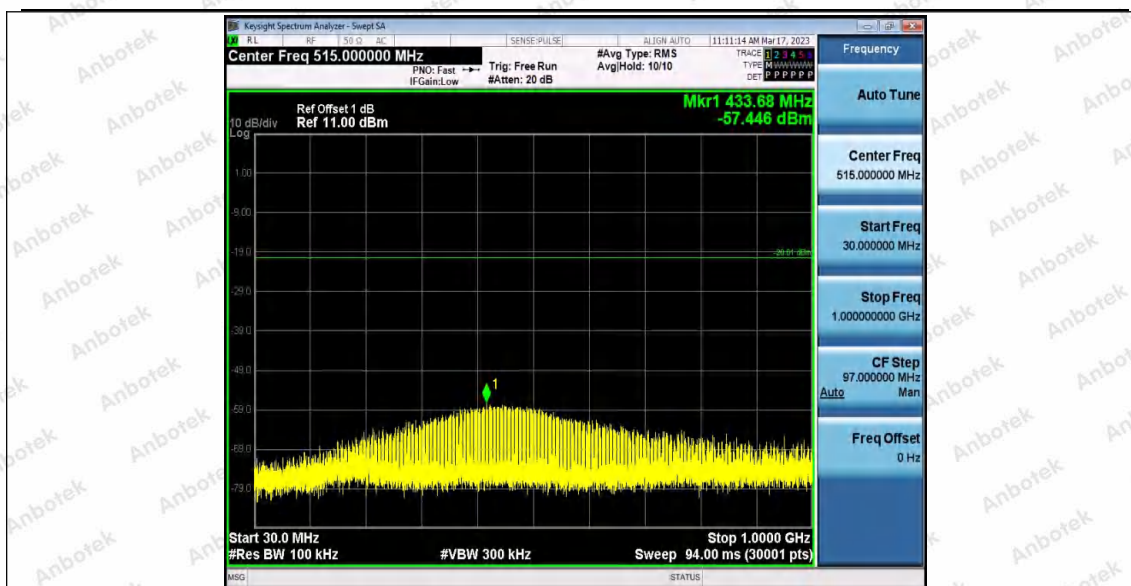


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





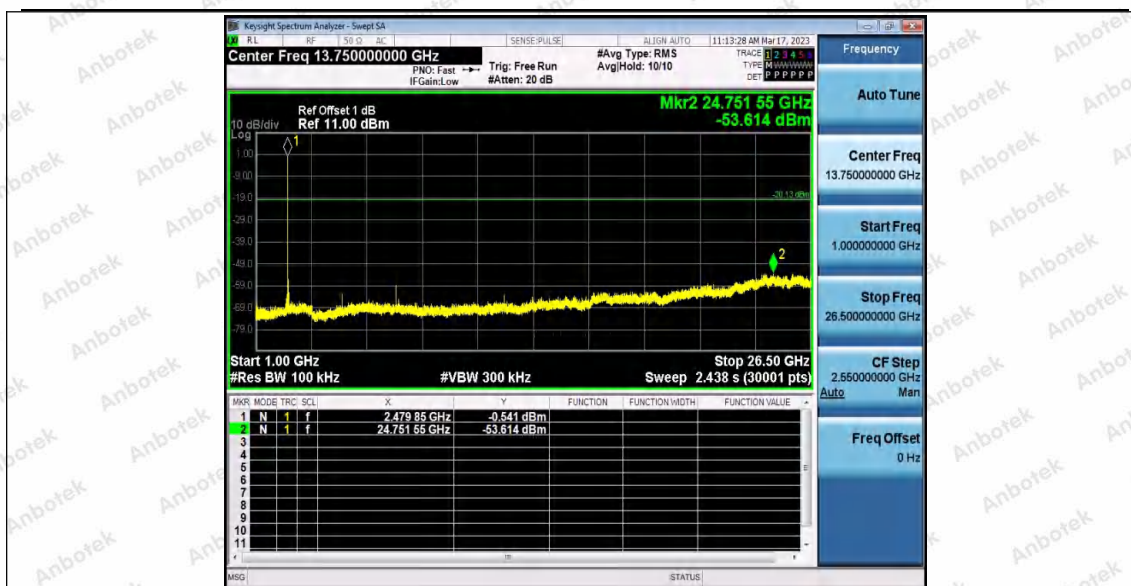
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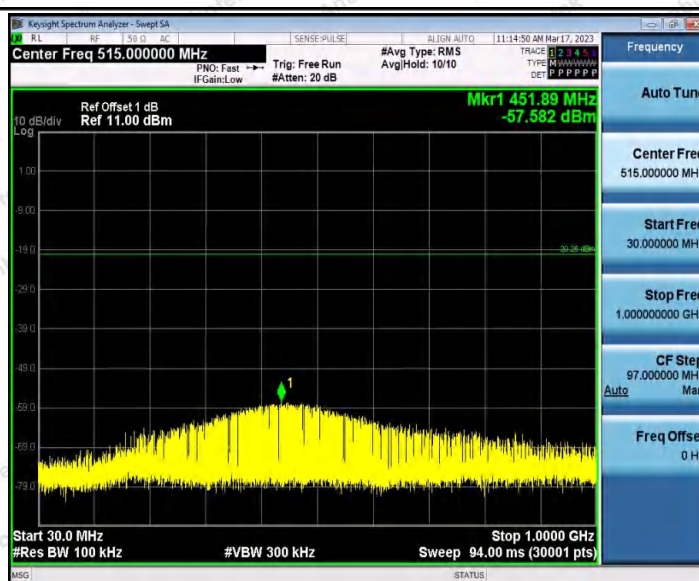


BLE_2M_Ant1_2402_0~Reference

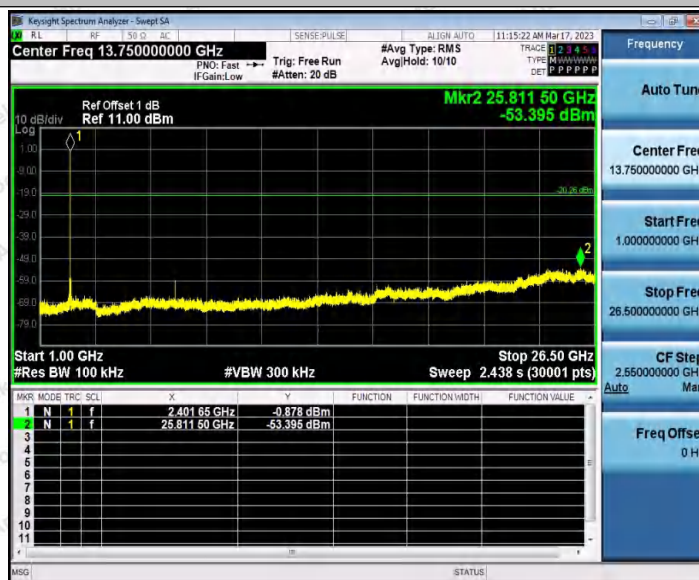


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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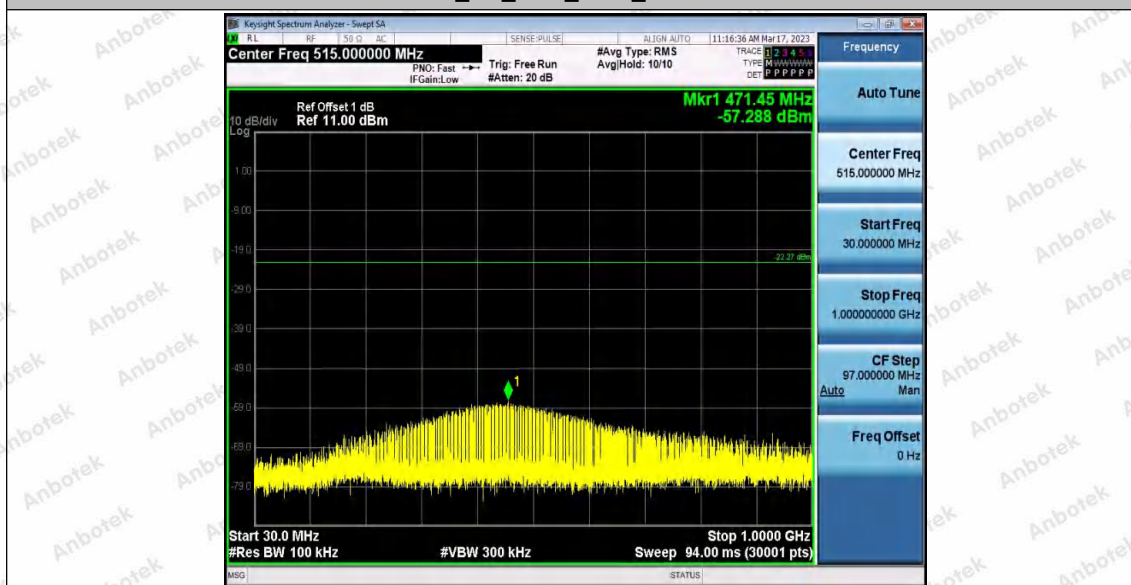


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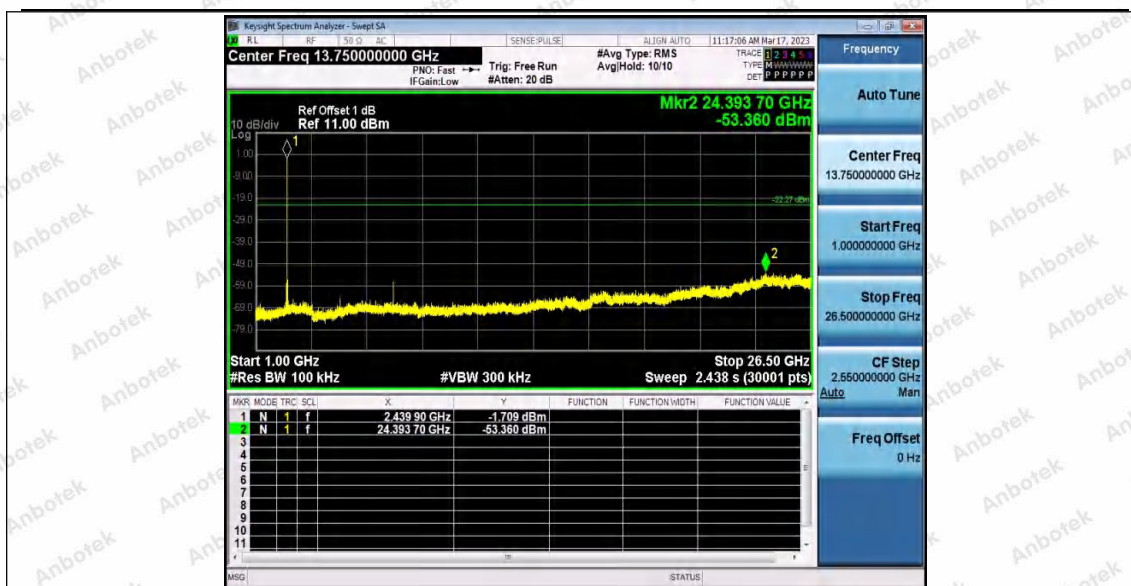


BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



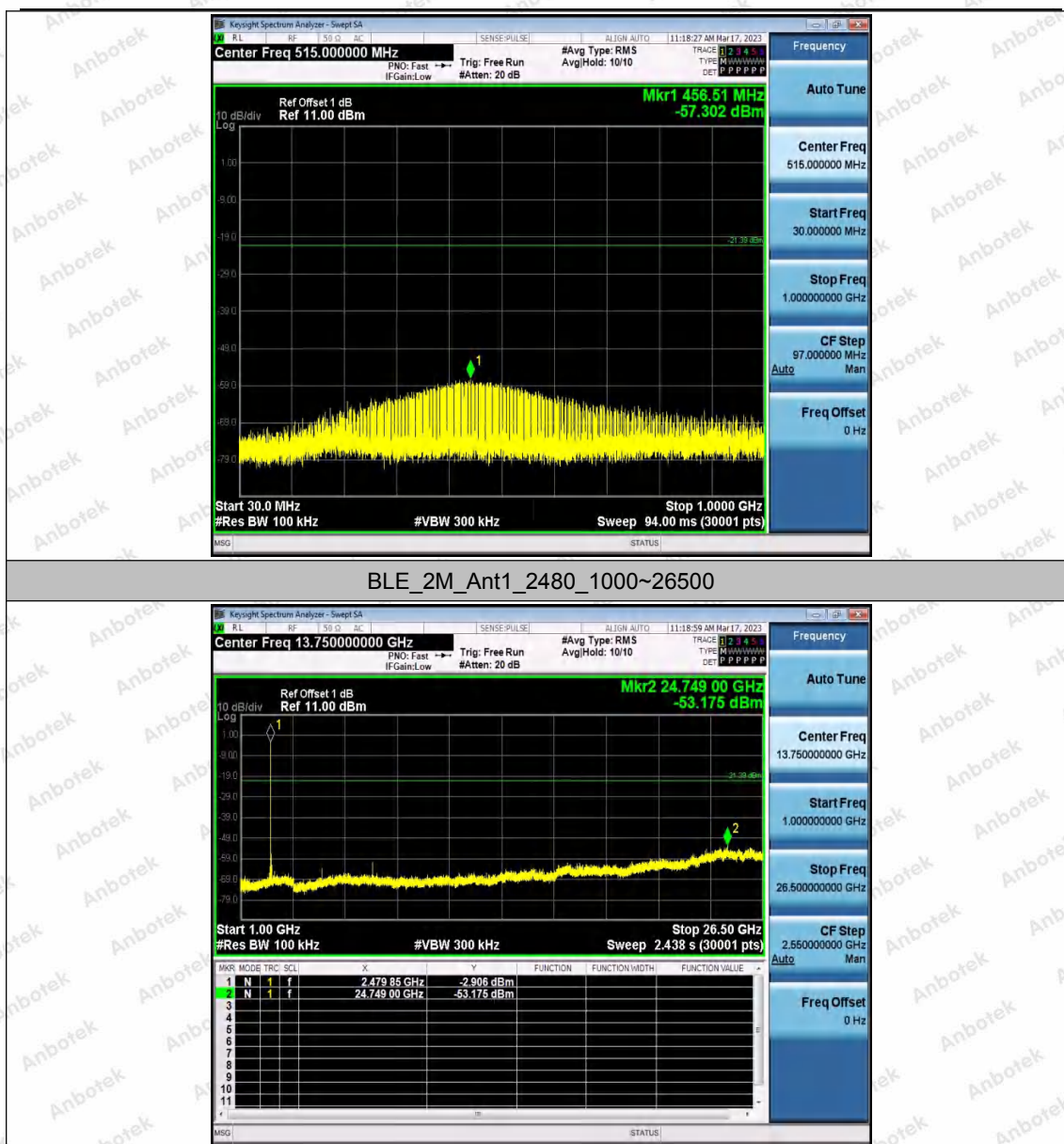


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

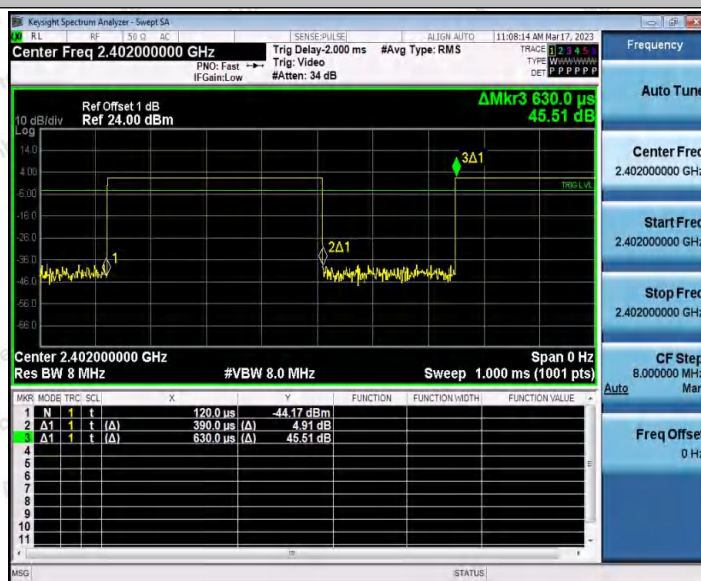
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

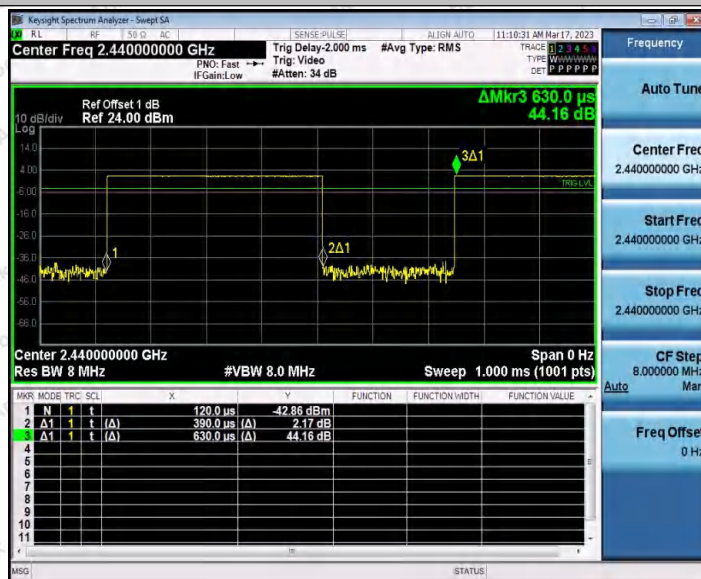


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

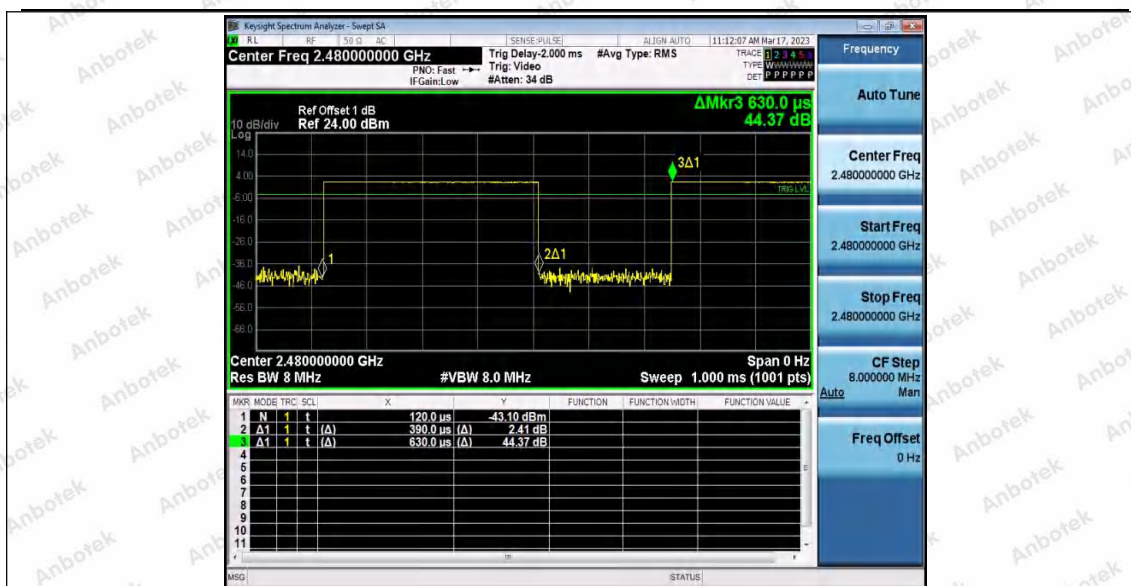
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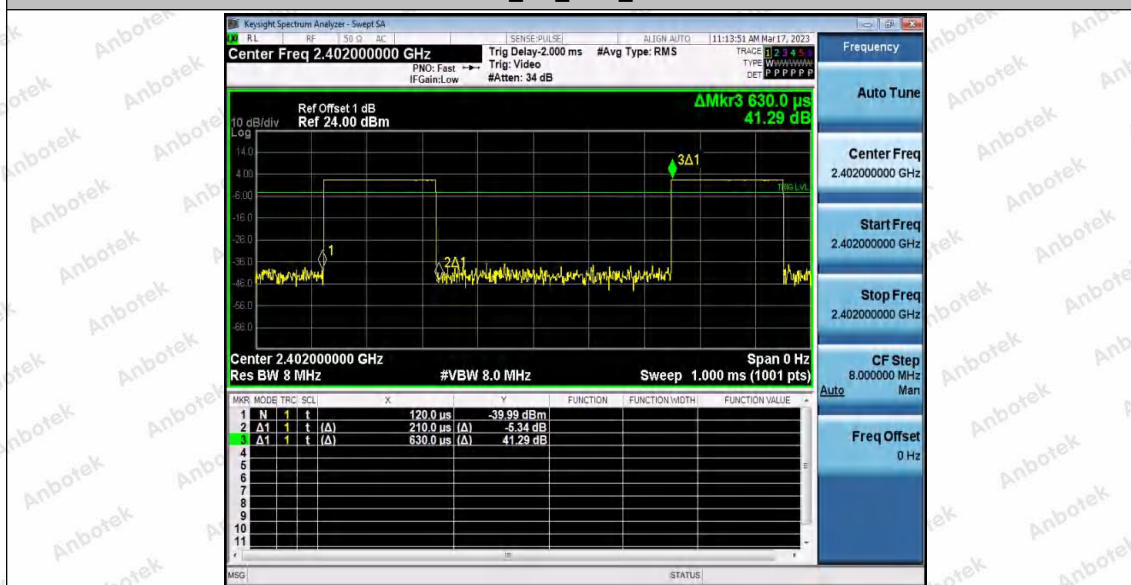


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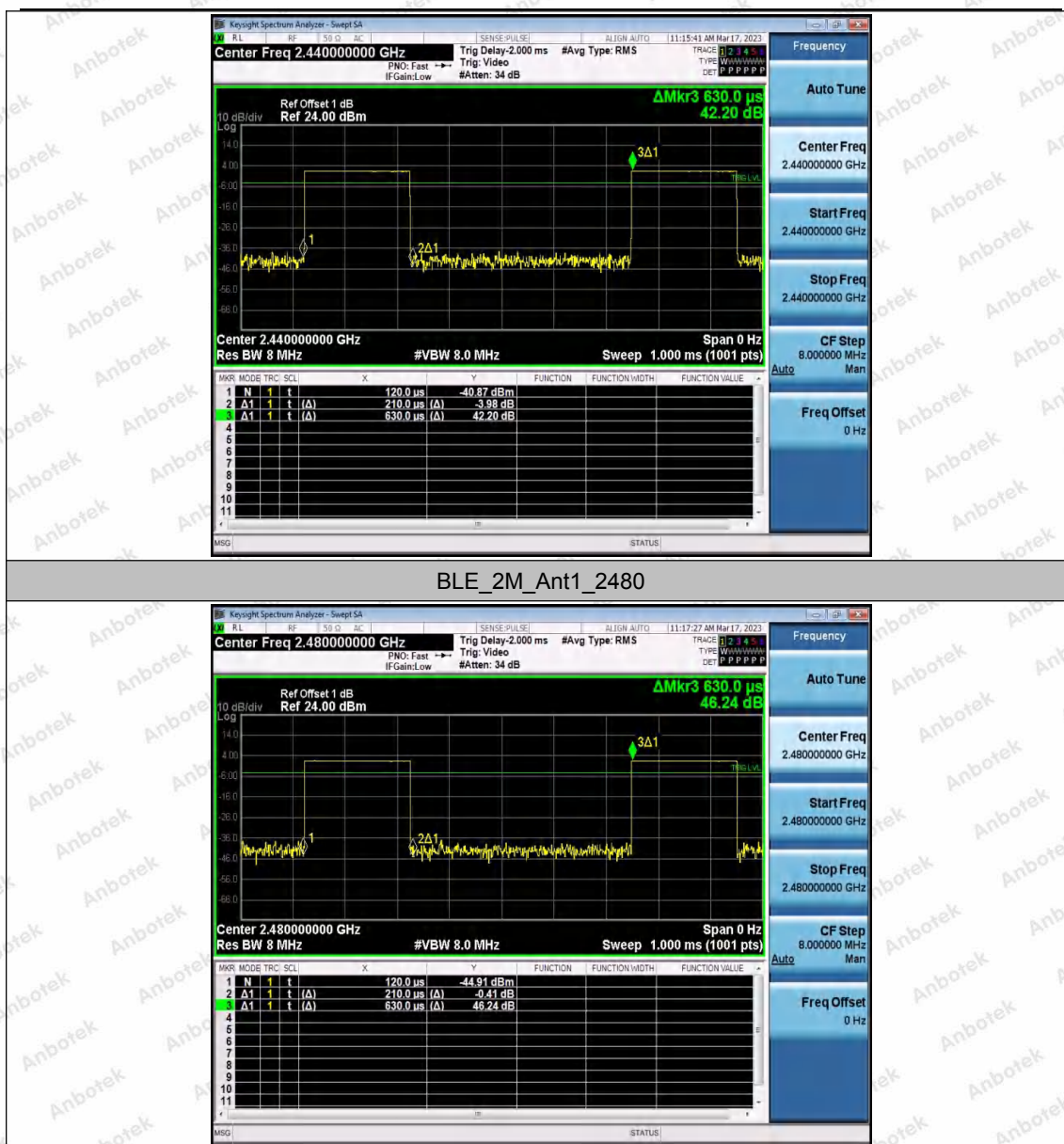


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

