

Appendix Test Data

Report No.:	18220WC30163601	Test Sample No.:	1-2-2
Start Test Date:	2023.08.03	Finish Test Date:	2023.08.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	48%
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	1.052	2401.544	2402.596	0.5	PASS
		2440	1.008	2439.580	2440.588	0.5	PASS
		2480	0.988	2479.540	2480.528	0.5	PASS
BLE_2M	Ant1	2402	1.524	2401.224	2402.748	0.5	PASS
		2440	1.636	2439.152	2440.788	0.5	PASS
		2480	1.524	2479.216	2480.740	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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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	1.3436	2401.3388	2402.6824
		2440	1.2702	2439.3516	2440.6218
		2480	1.2913	2479.3572	2480.6485
BLE_2M	Ant1	2402	2.2101	2400.8746	2403.0847
		2440	2.2261	2438.8712	2441.0973
		2480	2.2273	2478.8667	2481.0940



Test Graphs



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BLE 2M Ant1 2402



BLE 2M Ant1 2440



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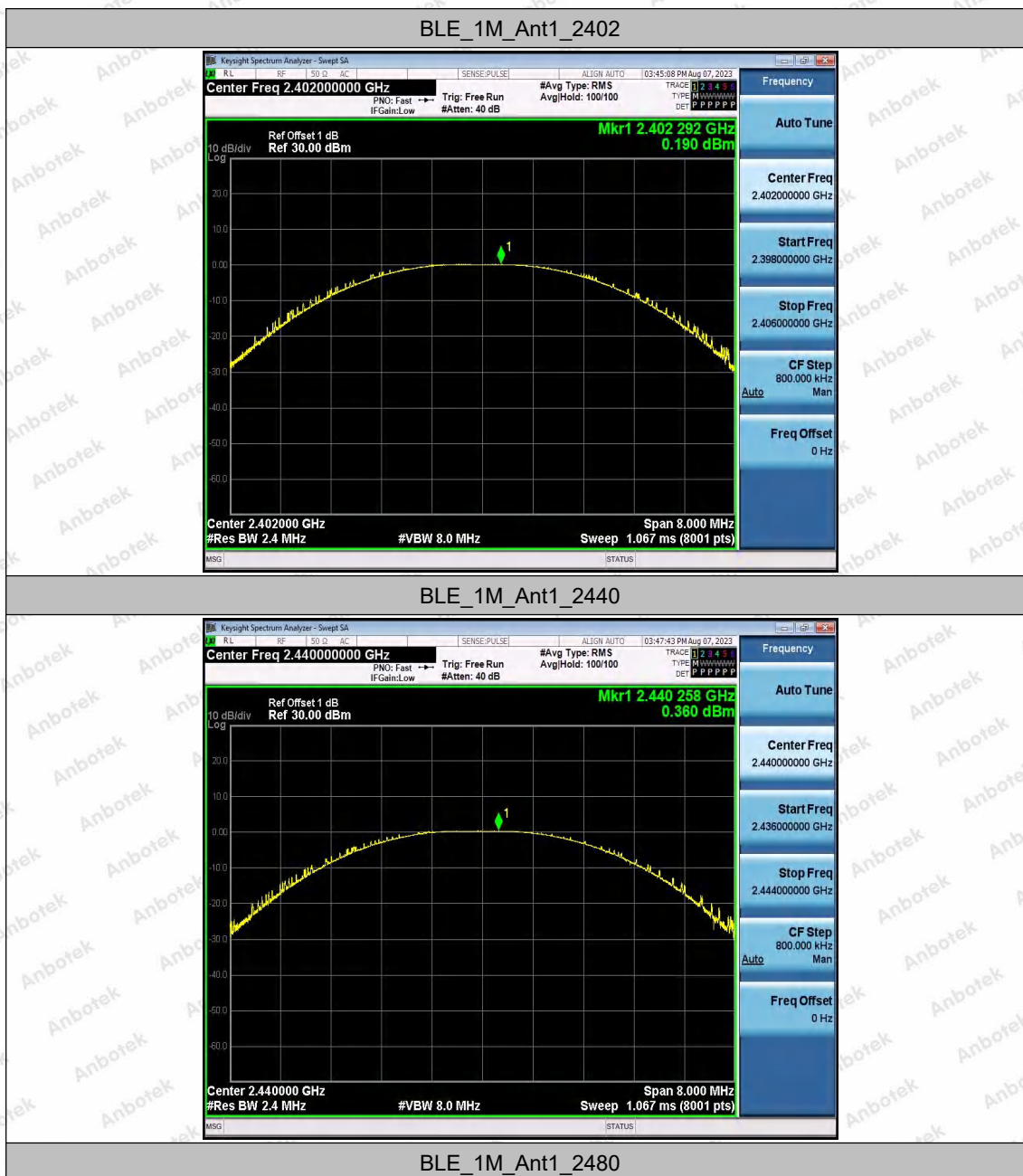
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.19	≤30	PASS
		2440	0.36	≤30	PASS
		2480	0.48	≤30	PASS
BLE_2M	Ant1	2402	0.24	≤30	PASS
		2440	0.36	≤30	PASS
		2480	0.48	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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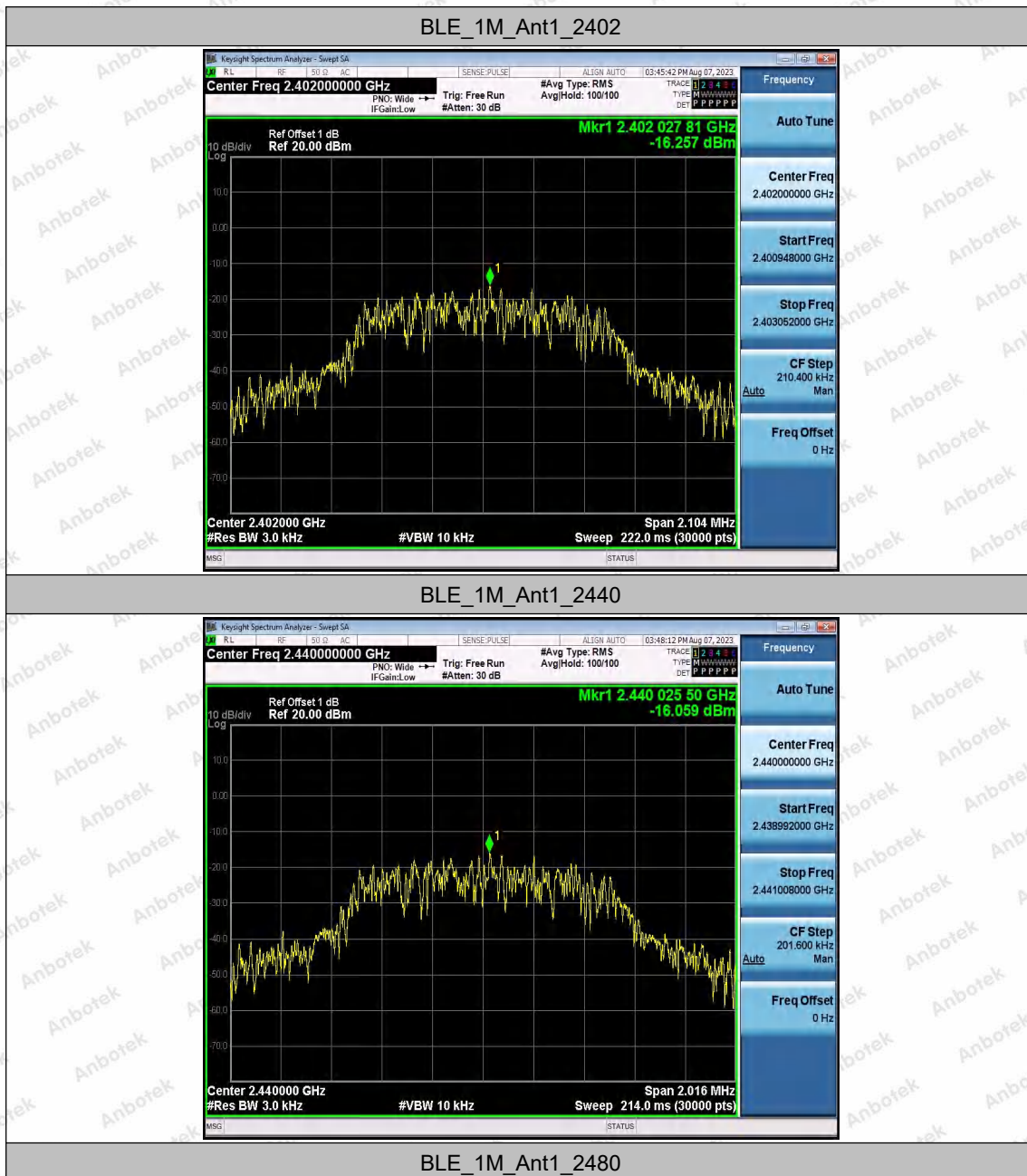
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.26	≤8.00	PASS
		2440	-16.06	≤8.00	PASS
		2480	-15.79	≤8.00	PASS
BLE_2M	Ant1	2402	-16.81	≤8.00	PASS
		2440	-16.77	≤8.00	PASS
		2480	-16.58	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

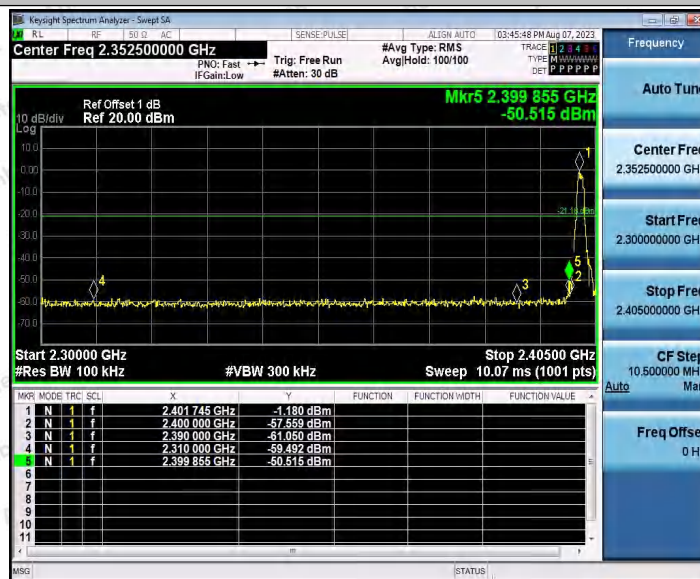
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.18	-50.52	≤-21.18	PASS
		High	2480	-0.95	-57.41	≤-20.95	PASS
BLE_2M	Ant1	Low	2402	-0.89	-32.13	≤-20.89	PASS
		High	2480	-0.70	-51.82	≤-20.7	PASS

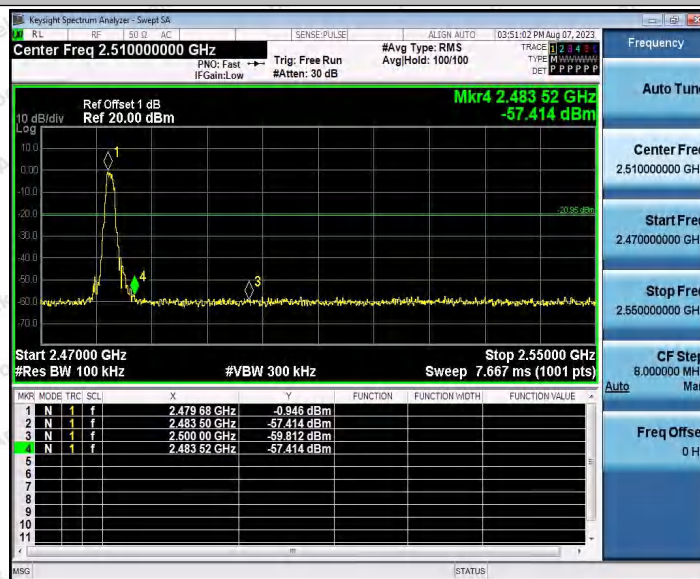


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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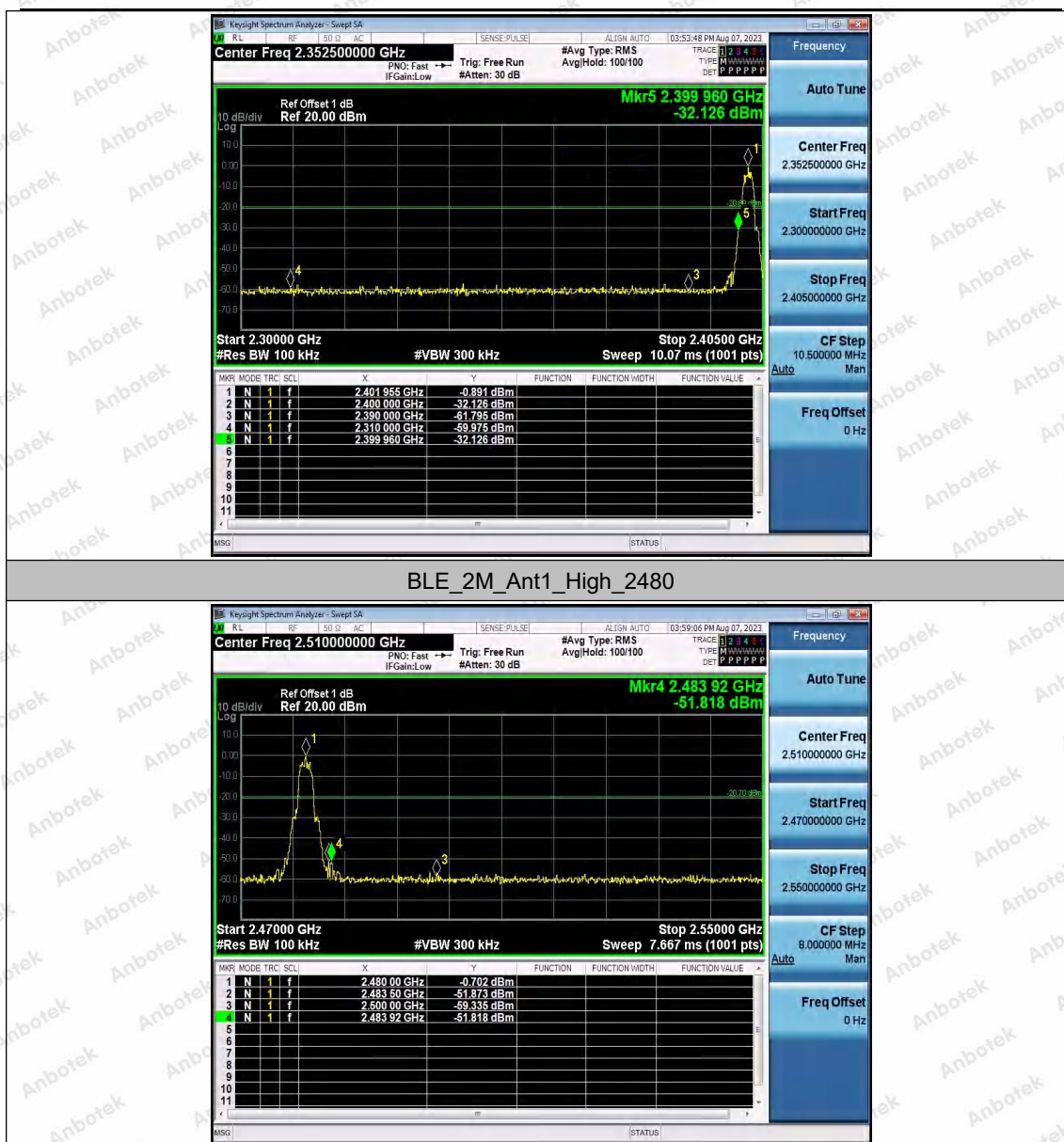


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-67.83	≤-21.56	PASS
			1000~26500	-1.56	-45.61	≤-21.56	PASS
		2440	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-67.30	≤-21.43	PASS
			1000~26500	-1.43	-43.87	≤-21.43	PASS
		2480	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-68.62	≤-21.27	PASS
			1000~26500	-1.27	-44.41	≤-21.27	PASS
BLE_2M	Ant1	2402	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-68.91	≤-21.34	PASS
			1000~26500	-1.34	-47.43	≤-21.34	PASS
		2440	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-69.00	≤-21.27	PASS
			1000~26500	-1.27	-49.29	≤-21.27	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-69.15	≤-21.2	PASS
			1000~26500	-1.20	-48.88	≤-21.2	PASS

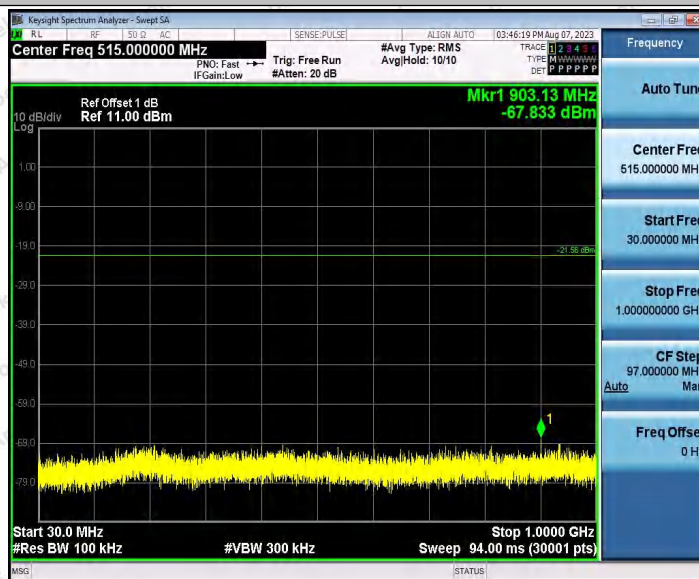


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

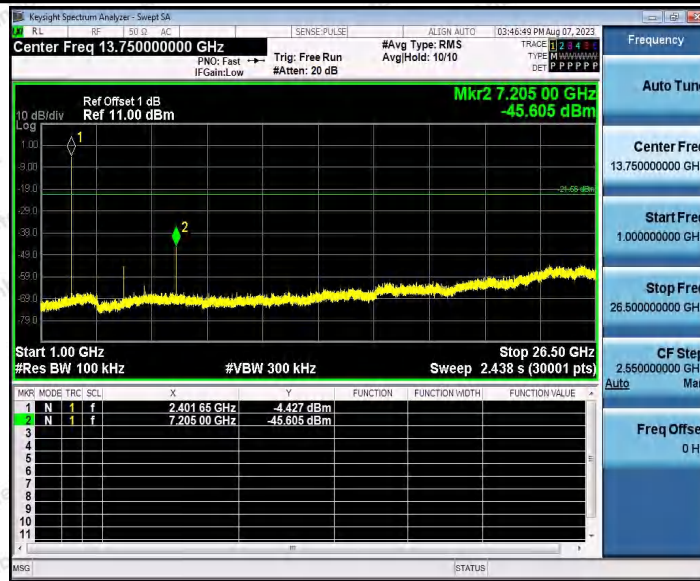
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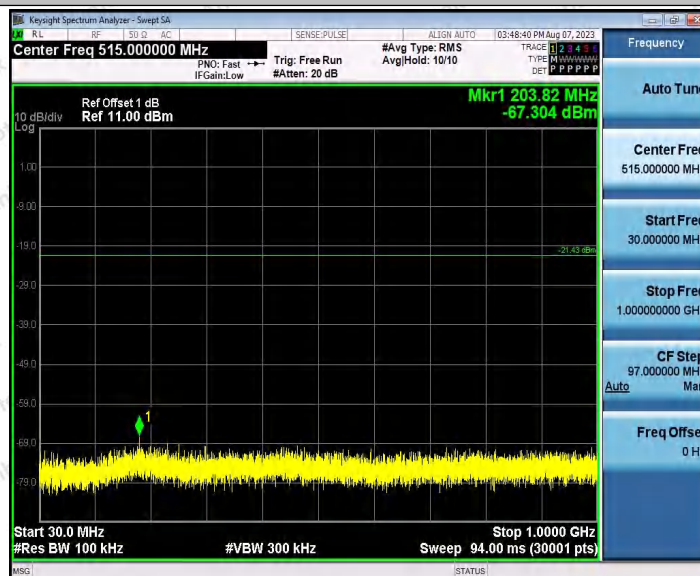




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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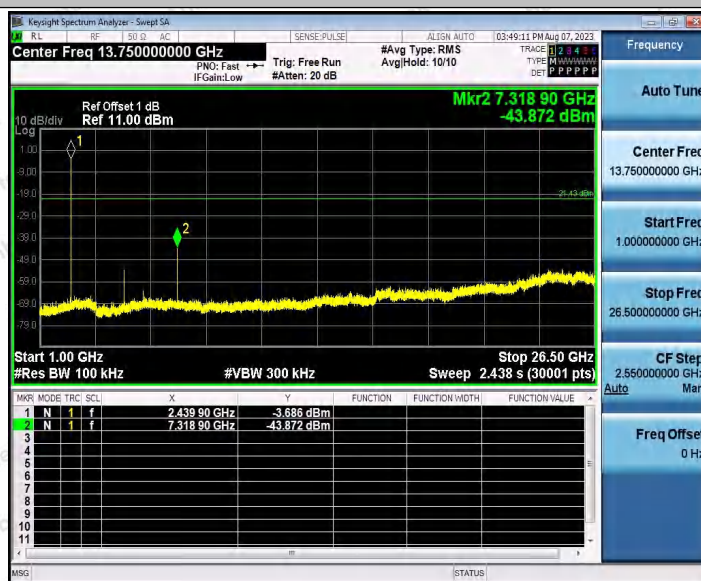
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

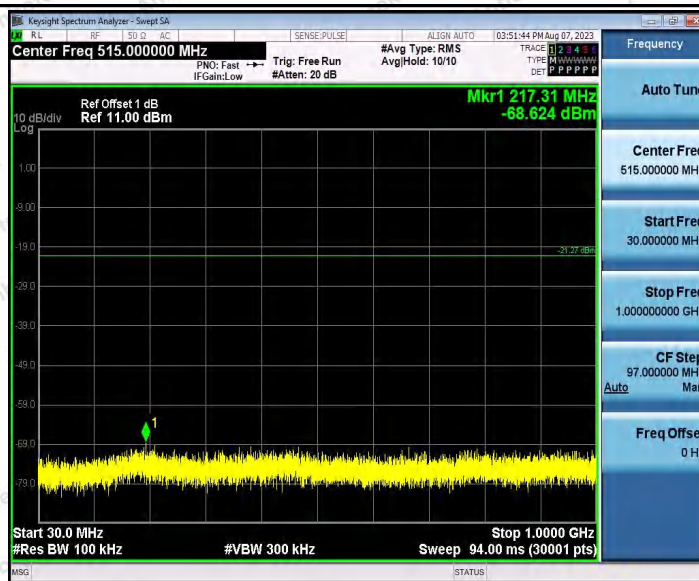
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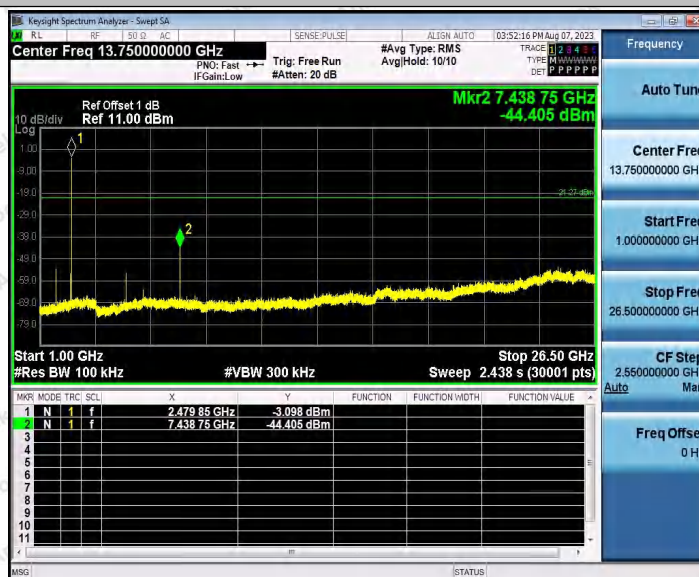


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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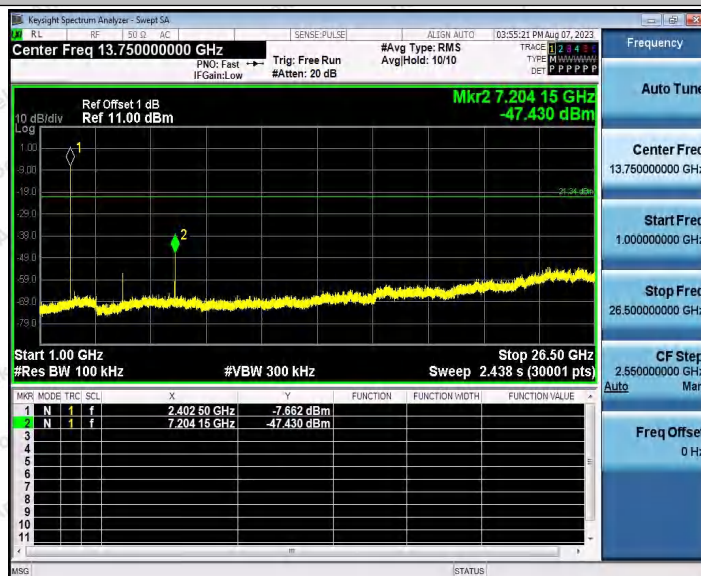
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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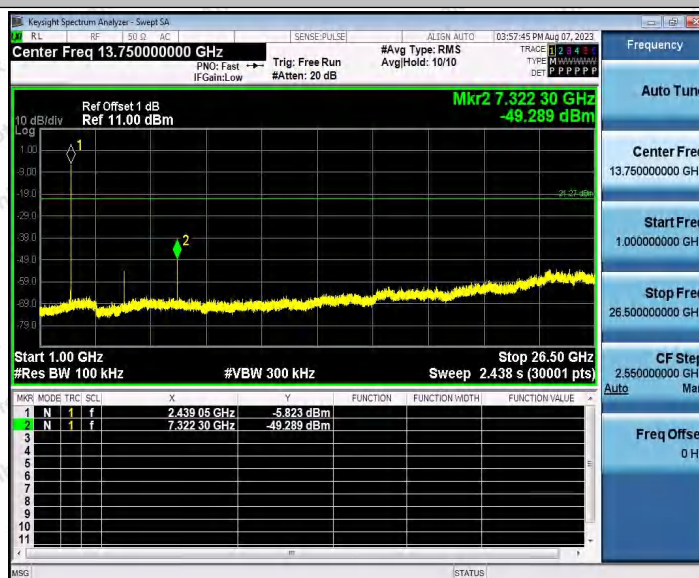




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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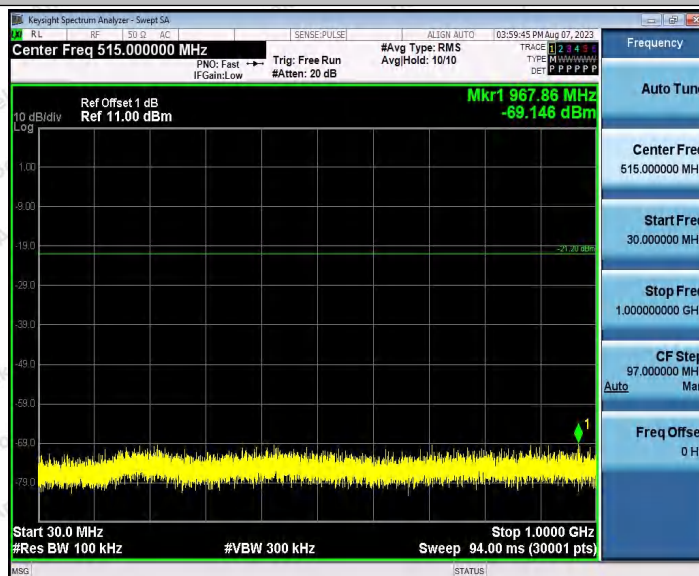
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

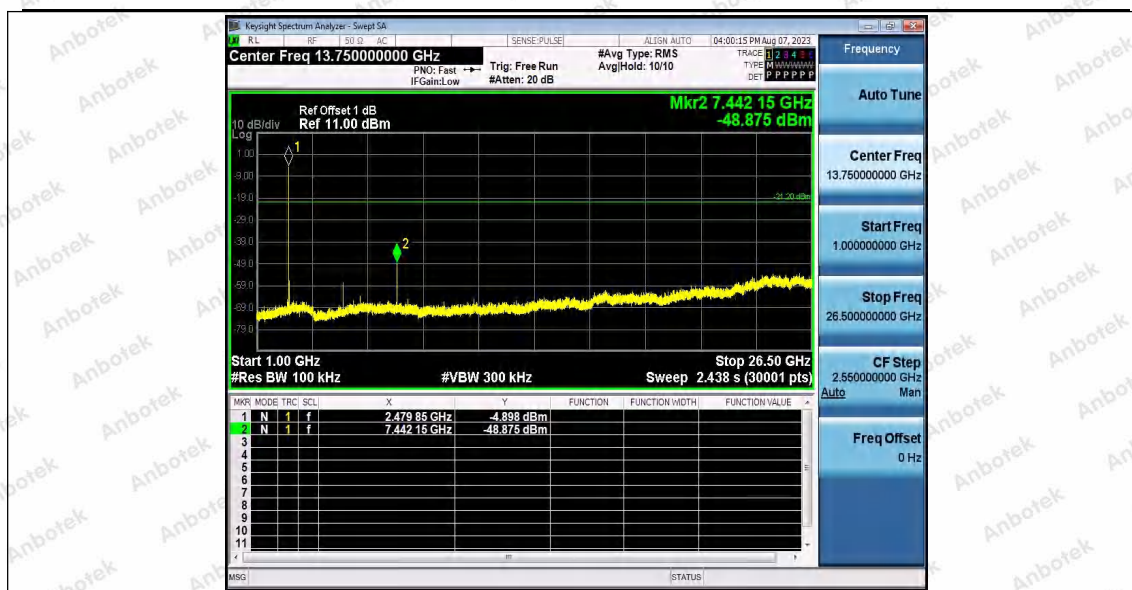
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.29	1.07	27.10	5.67
		2440	0.29	1.07	27.10	5.67
		2480	0.29	1.07	27.10	5.67
BLE_2M	Ant1	2402	0.29	1.07	27.10	5.67
		2440	0.29	1.07	27.10	5.67
		2480	0.29	1.07	27.10	5.67

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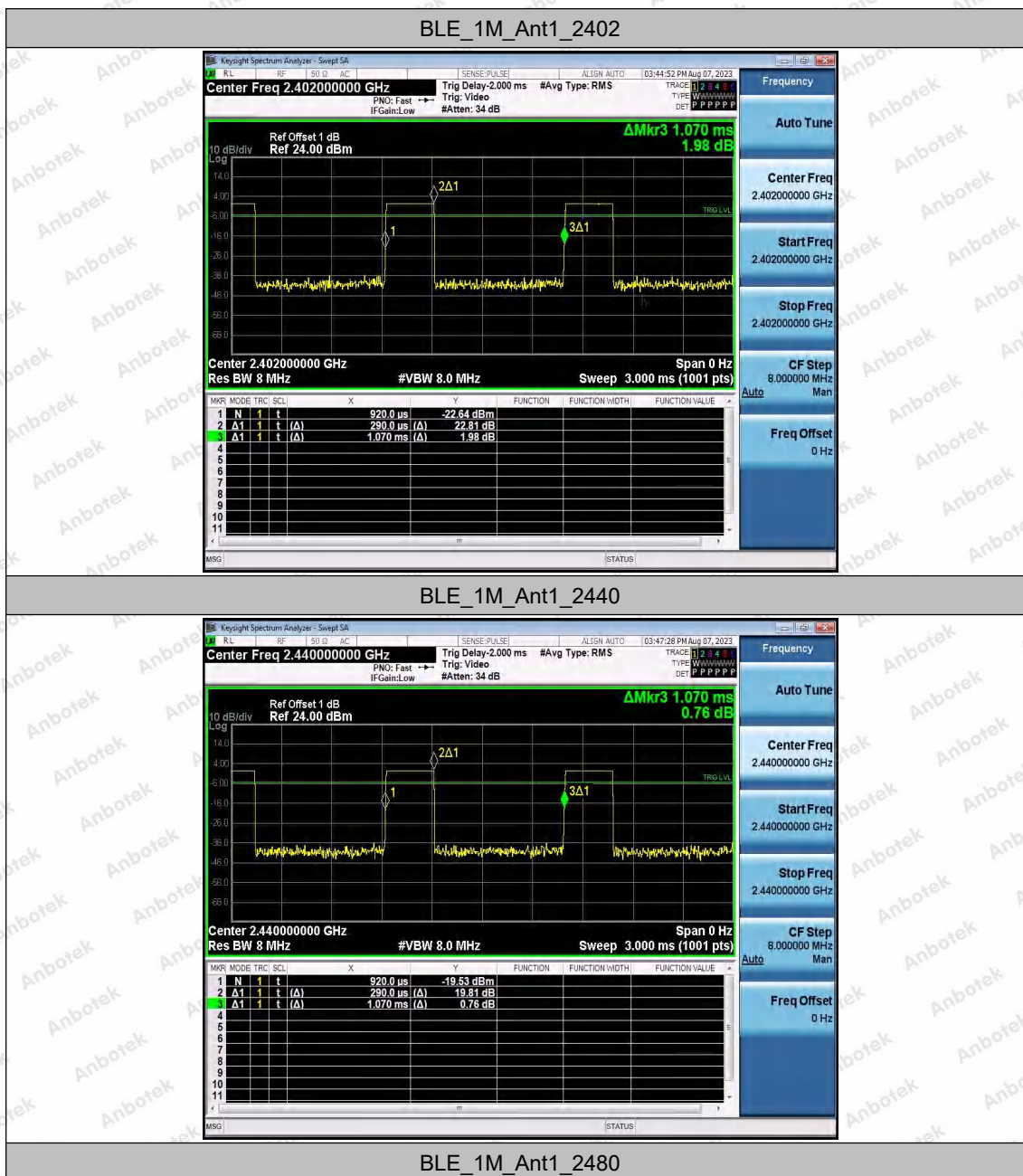
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Test Graphs



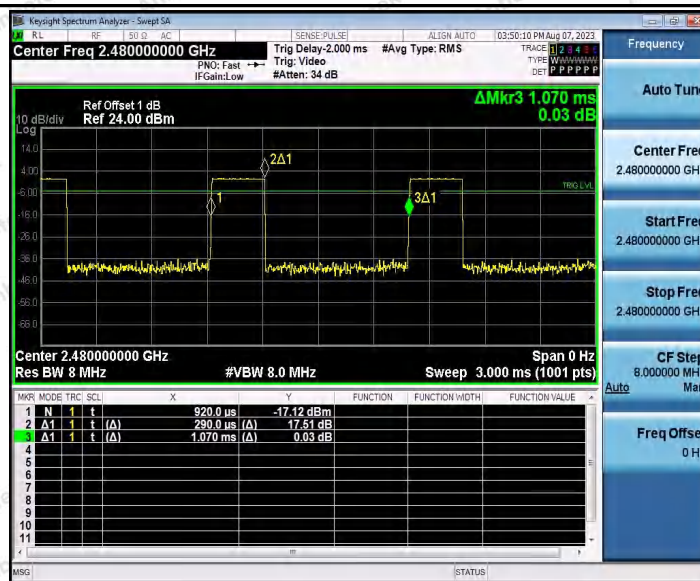
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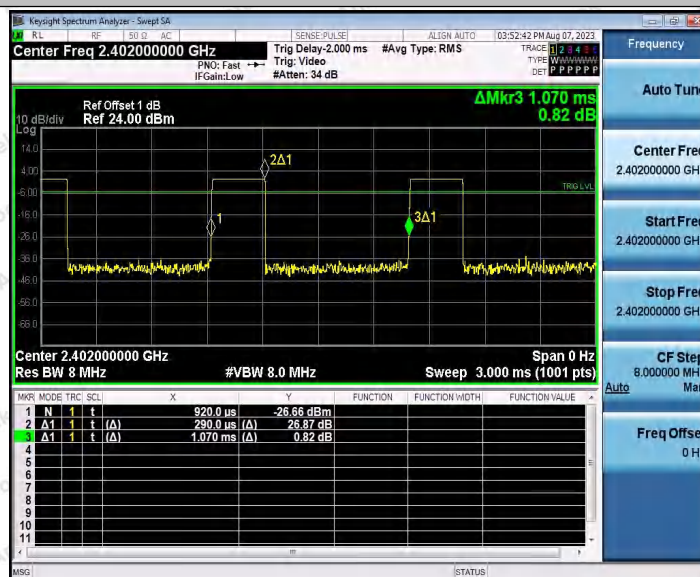


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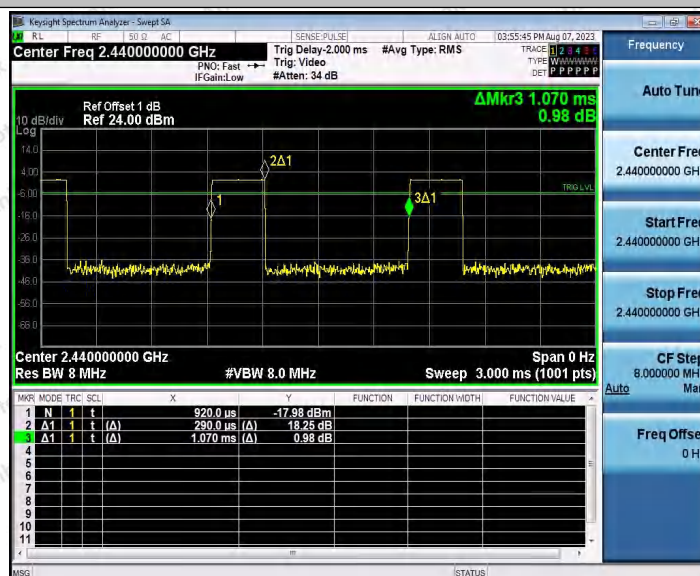




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



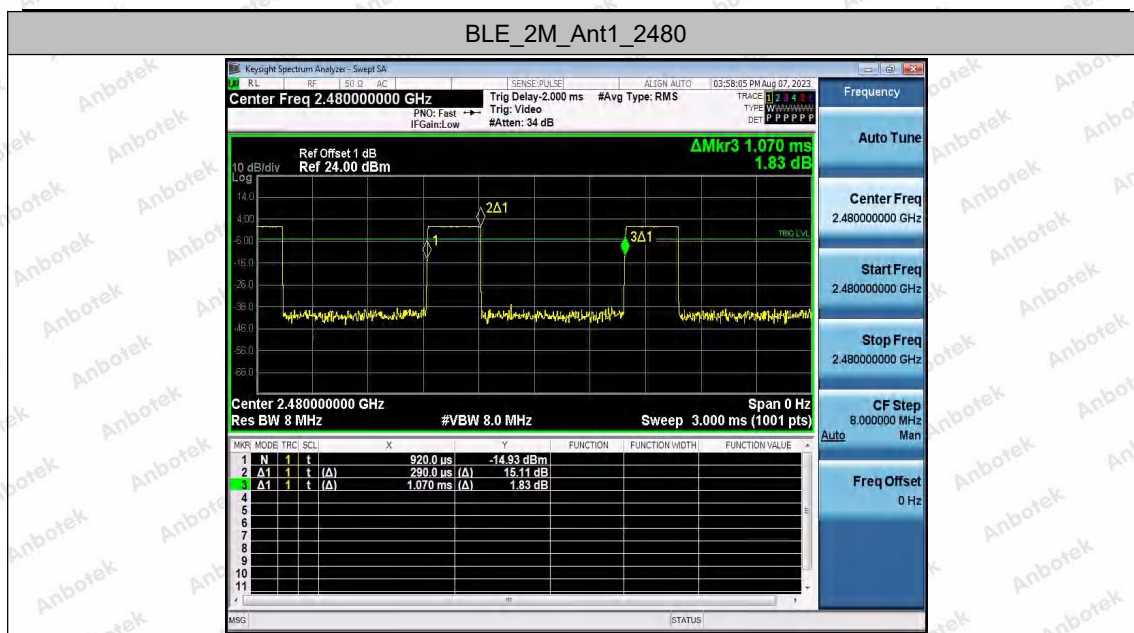
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