

Appendix Test Data

Report No.:	18220WC30244202	Test Sample No.:	1-2-2
Start Test Date:	2023.11.22	Finish Test Date:	2023.11.23
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.1°C	Relative Humidity:	46%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.632	2402.312	0.5	PASS
		2440	0.612	2439.676	2440.288	0.5	PASS
		2480	0.640	2479.656	2480.296	0.5	PASS
BLE_2M	Ant1	2402	1.068	2401.460	2402.528	0.5	PASS
		2440	1.064	2439.456	2440.520	0.5	PASS
		2480	1.064	2479.448	2480.512	0.5	PASS

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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

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0690	2401.4781	2402.5471
		2440	1.0775	2439.4624	2440.5399
		2480	1.0691	2479.4606	2480.5297
BLE_2M	Ant1	2402	2.0836	2400.9757	2403.0593
		2440	2.0845	2438.9678	2441.0523
		2480	2.0846	2478.9609	2481.0455

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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	8.86	≤30	PASS
		2440	8.91	≤30	PASS
		2480	9.49	≤30	PASS
BLE_2M	Ant1	2402	9.49	≤30	PASS
		2440	9.49	≤30	PASS
		2480	9.97	≤30	PASS

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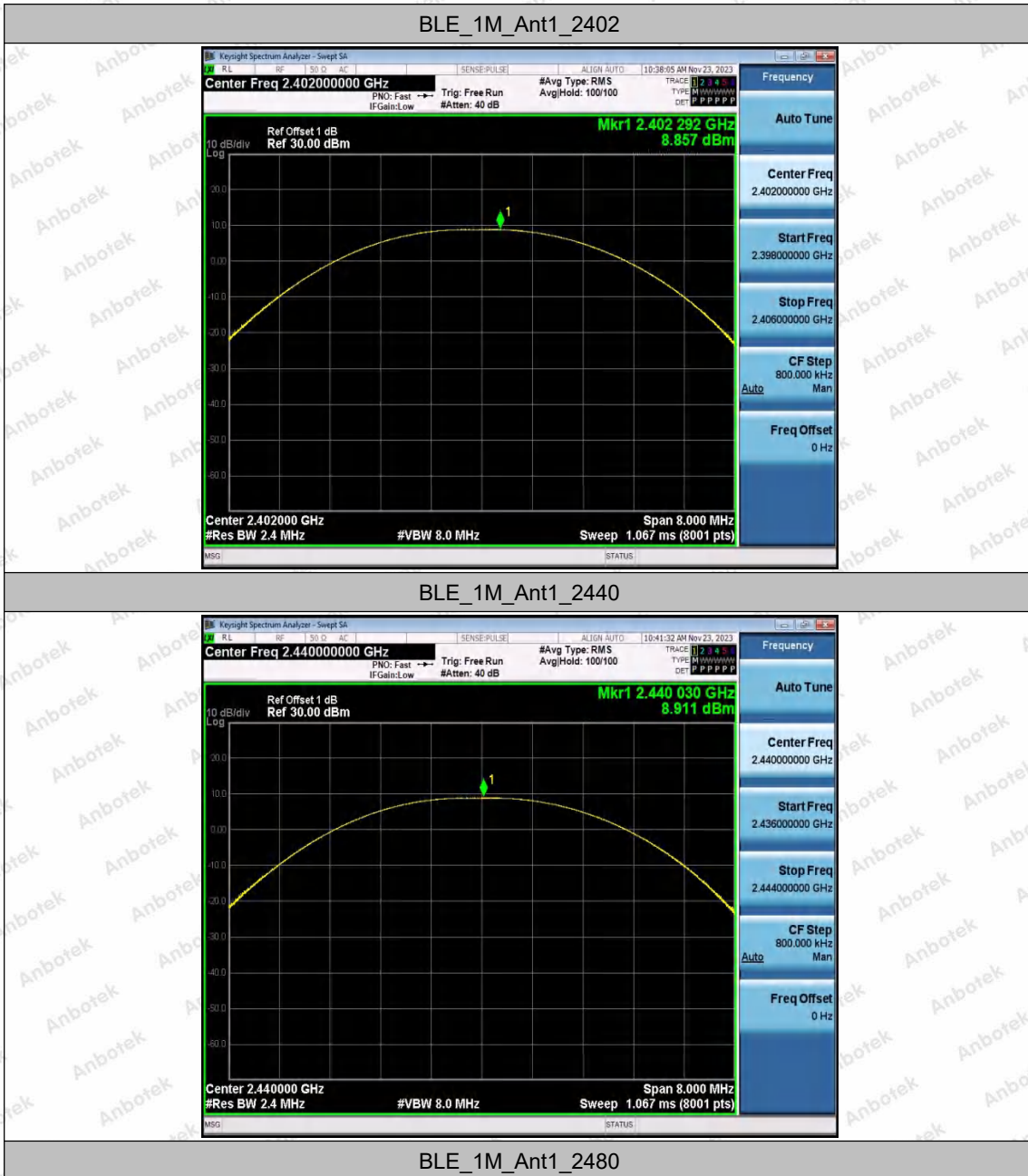
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Test Graphs Peak

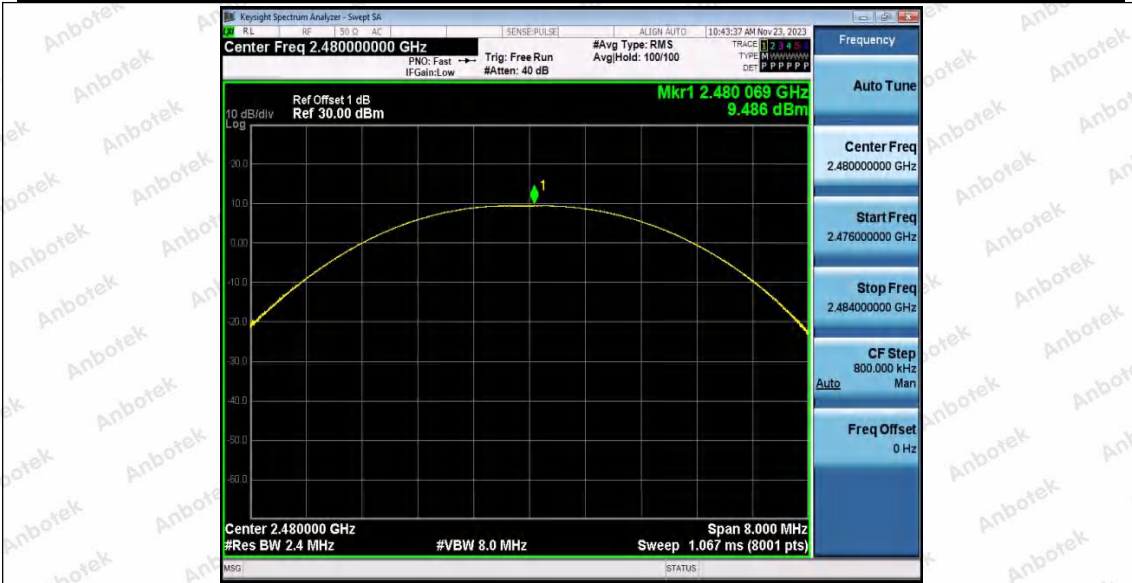


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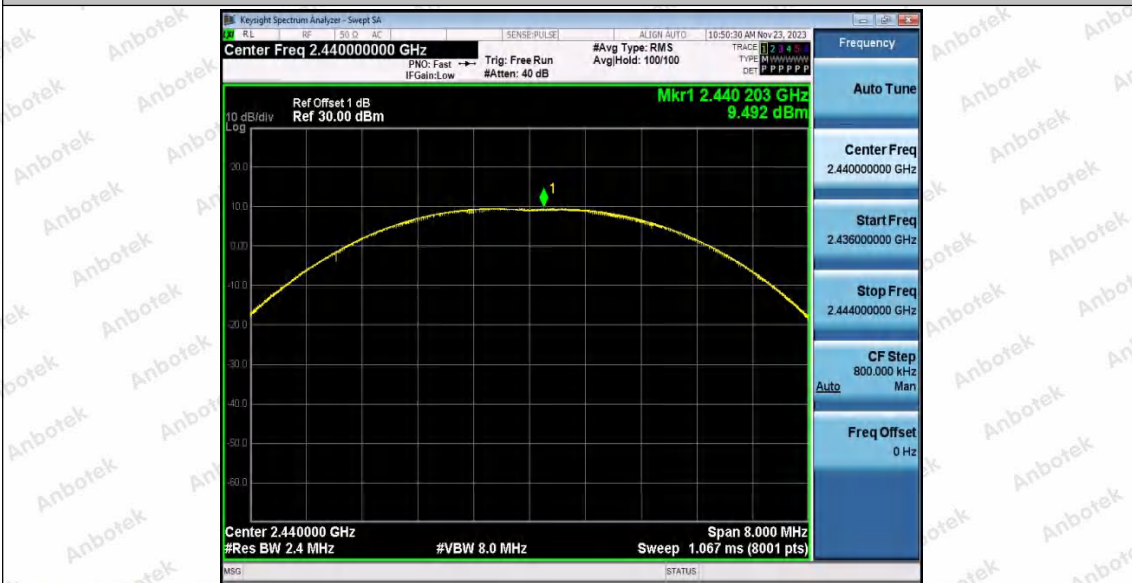




BLE_2M_Ant1_2402



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	1.96	≤8.00	PASS
		2440	1.95	≤8.00	PASS
		2480	2.59	≤8.00	PASS
BLE_2M	Ant1	2402	-1.57	≤8.00	PASS
		2440	-1.58	≤8.00	PASS
		2480	-0.95	≤8.00	PASS

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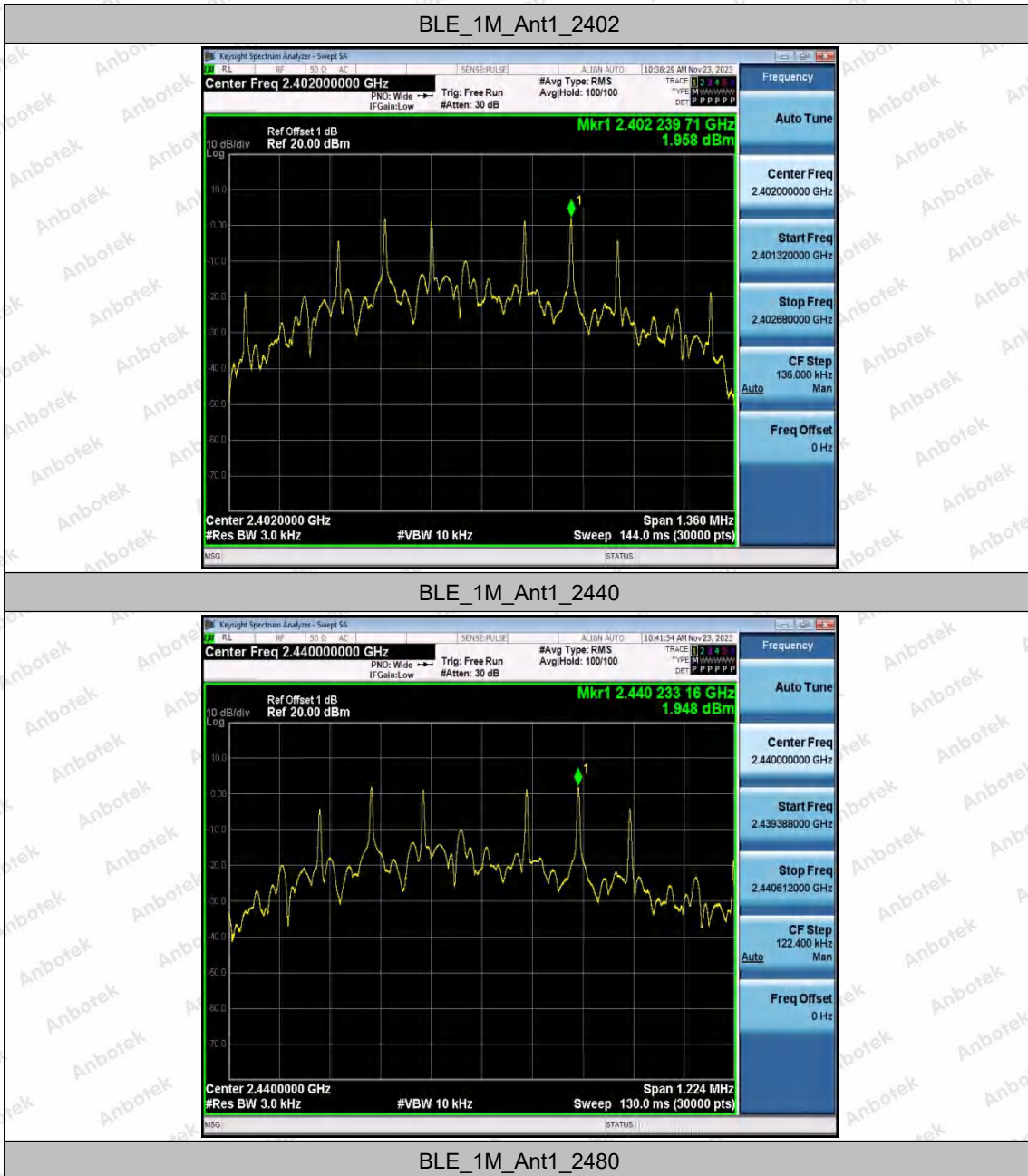
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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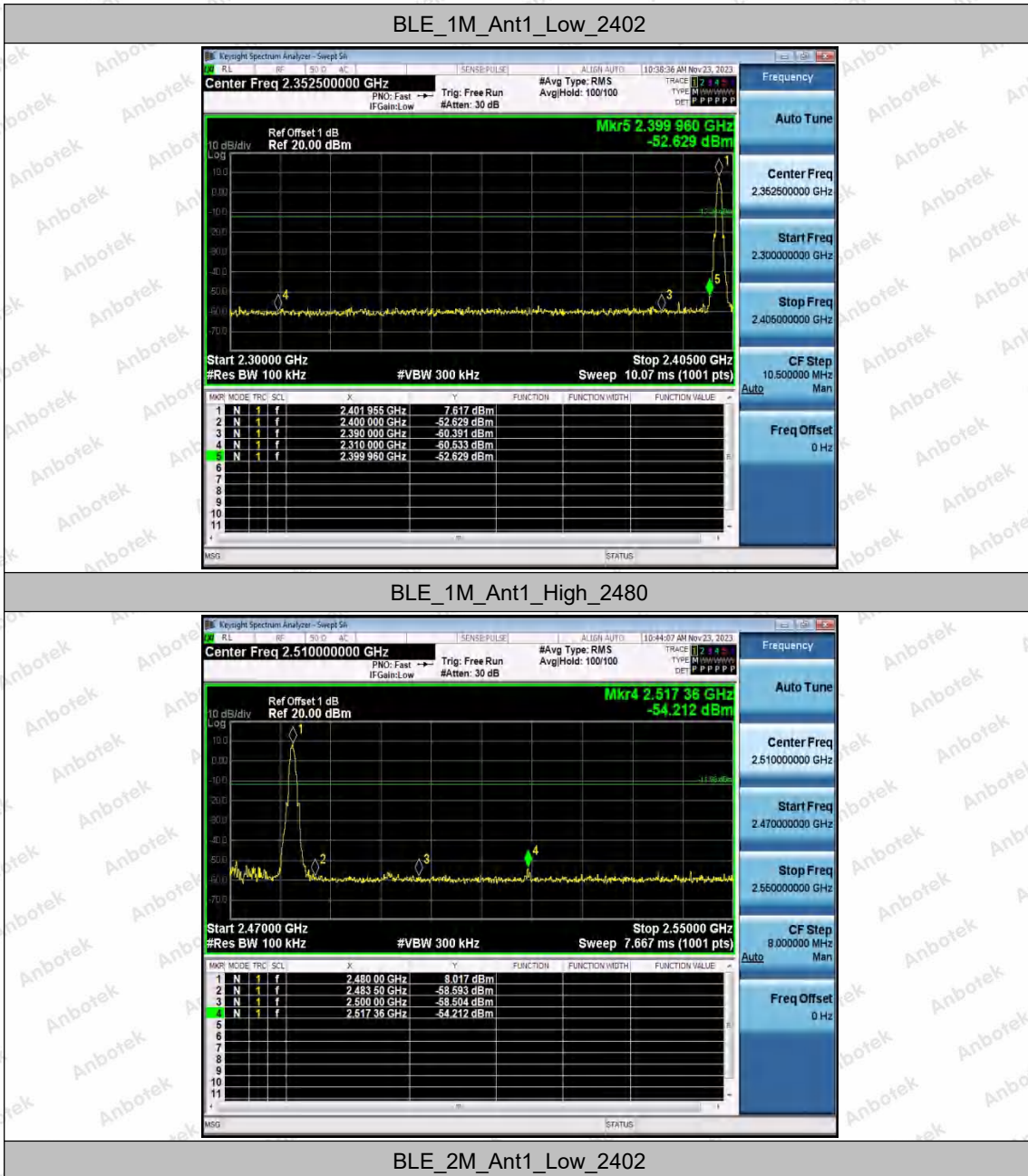
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.62	-52.63	≤-12.38	PASS
		High	2480	8.02	-54.21	≤-11.98	PASS
BLE_2M	Ant1	Low	2402	5.85	-34.46	≤-14.15	PASS
		High	2480	7.71	-55.07	≤-12.29	PASS



Test Graphs

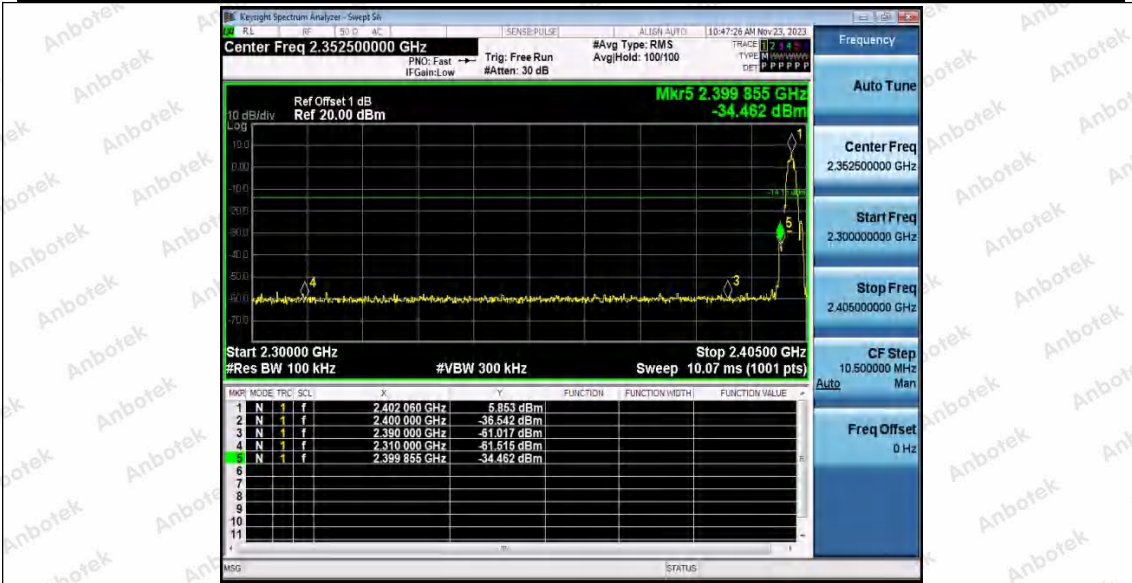


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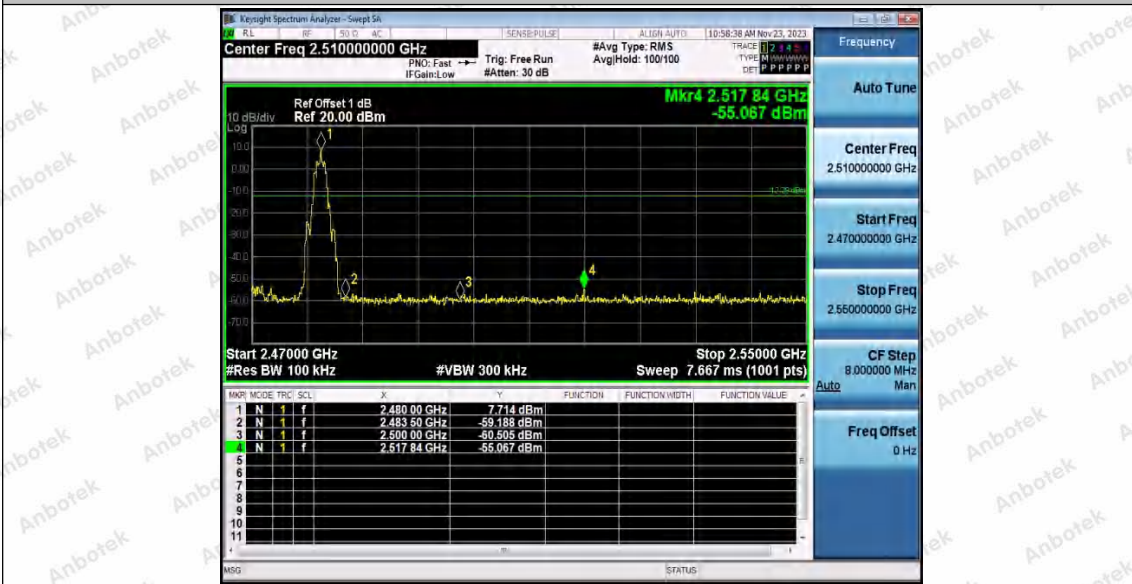
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BLE_2M_Ant1_High_2480



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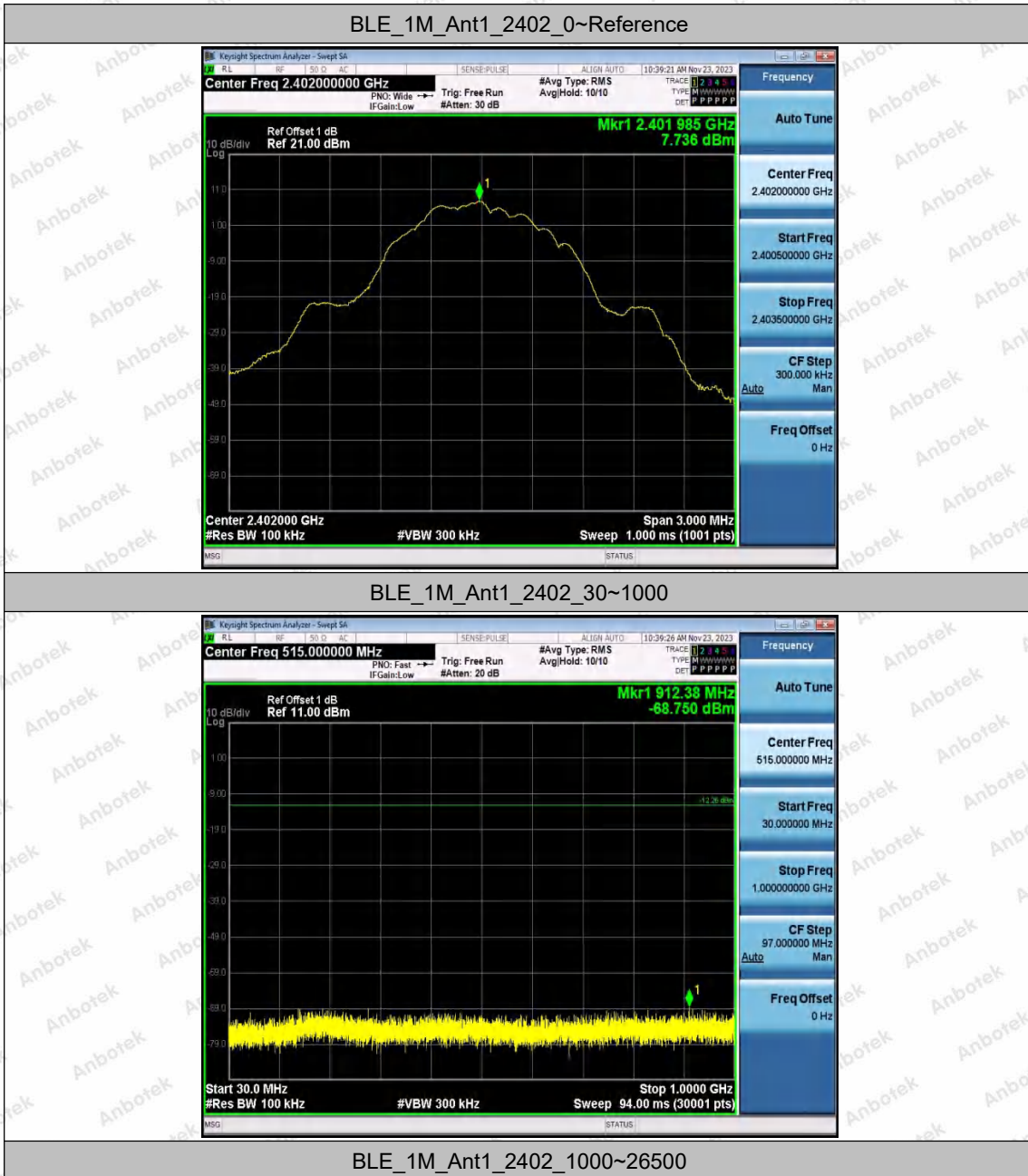
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.74	7.74	---	PASS
			30~1000	7.74	-68.75	≤-12.26	PASS
			1000~26500	7.74	-36.98	≤-12.26	PASS
		2440	Reference	7.77	7.77	---	PASS
			30~1000	7.77	-68.98	≤-12.23	PASS
			1000~26500	7.77	-39.01	≤-12.23	PASS
		2480	Reference	8.42	8.42	---	PASS
			30~1000	8.42	-69.10	≤-11.58	PASS
			1000~26500	8.42	-41.47	≤-11.58	PASS
BLE_2M	Ant1	2402	Reference	7.55	7.55	---	PASS
			30~1000	7.55	-68.64	≤-12.45	PASS
			1000~26500	7.55	-37.06	≤-12.45	PASS
		2440	Reference	7.64	7.64	---	PASS
			30~1000	7.64	-68.50	≤-12.36	PASS
			1000~26500	7.64	-51.98	≤-12.36	PASS
		2480	Reference	8.25	8.25	---	PASS
			30~1000	8.25	-68.87	≤-11.75	PASS
			1000~26500	8.25	-51.65	≤-11.75	PASS



Test Graphs

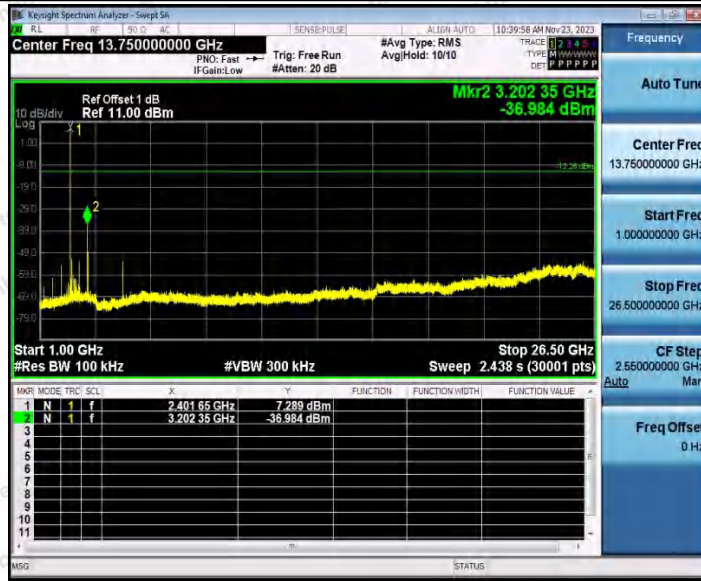


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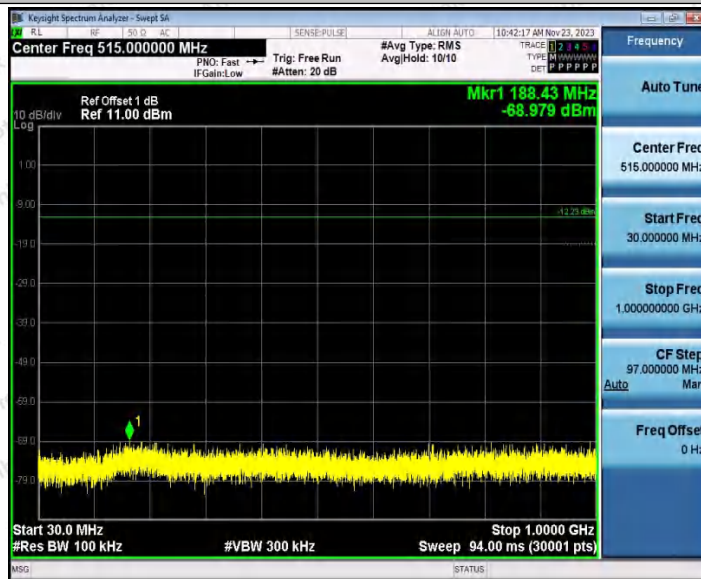




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



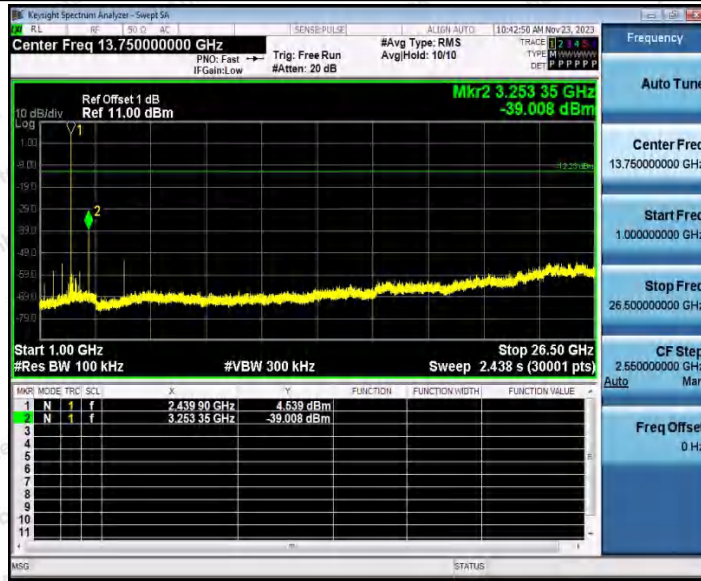
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



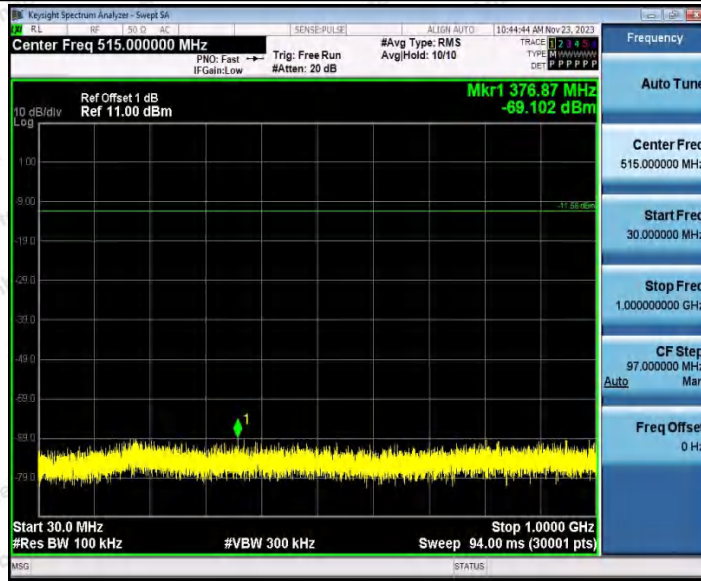
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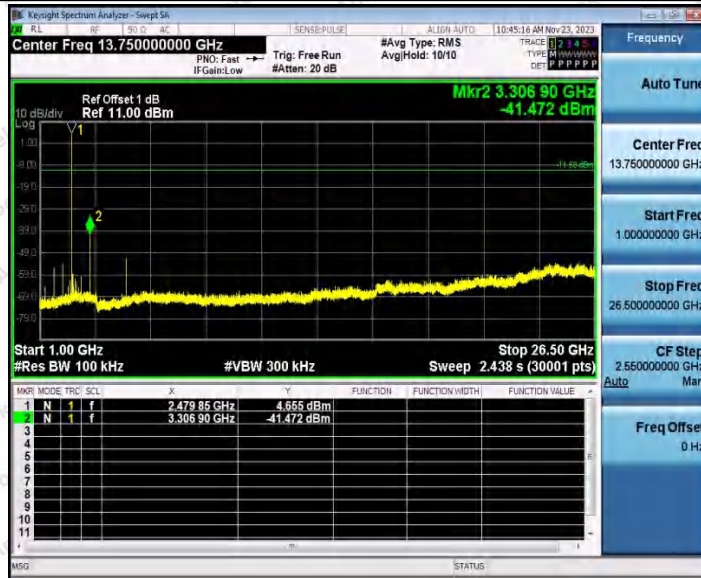
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



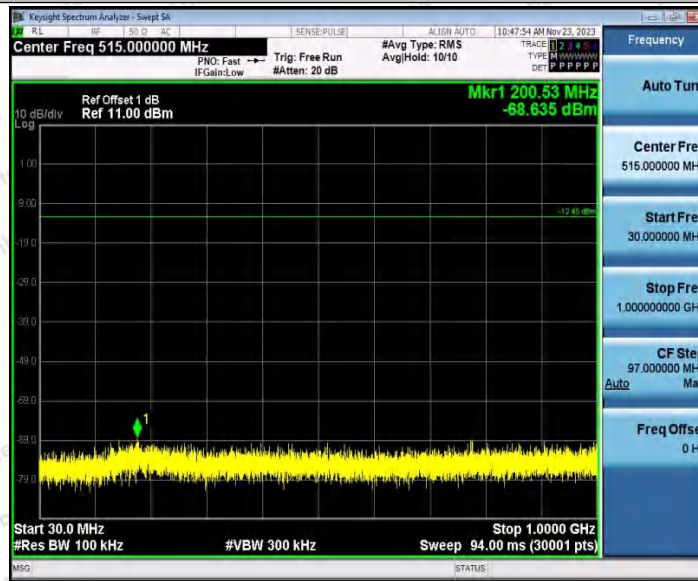
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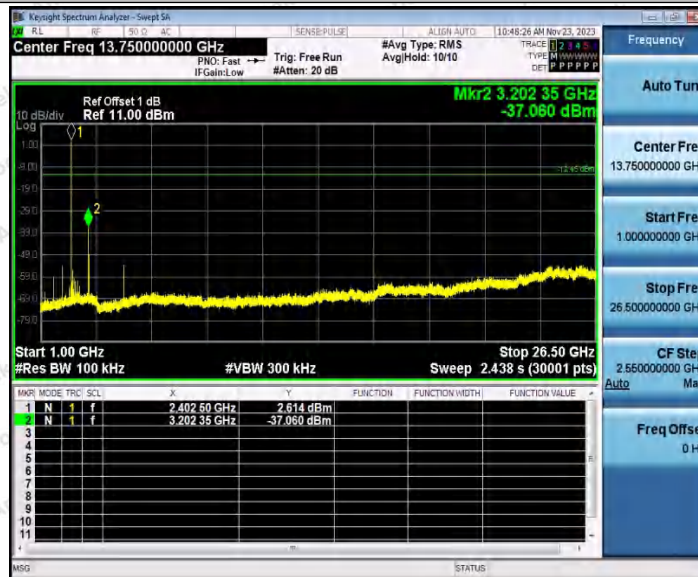
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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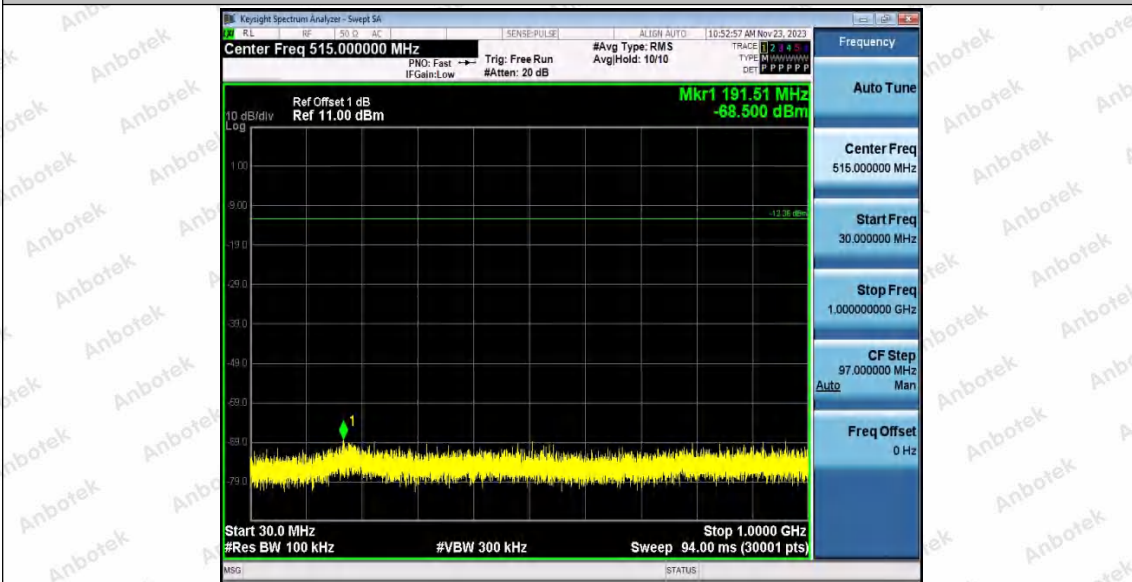
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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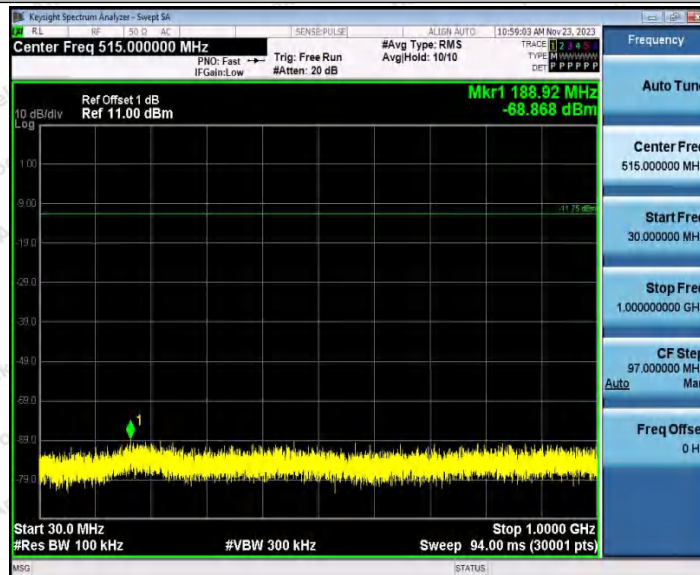
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



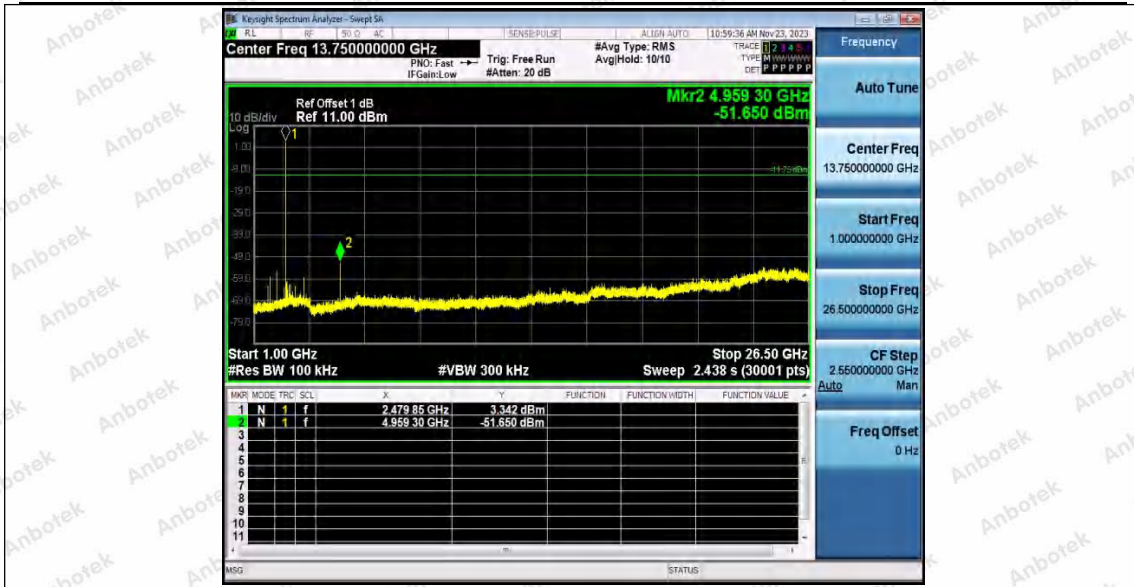
BLE_2M_Ant1_2480_1000~26500

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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	0.38	1.25	30.40	5.17
		2440	0.38	1.25	30.40	5.17
		2480	0.38	1.25	30.40	5.17
BLE_2M	Ant1	2402	0.19	1.25	15.20	8.18
		2440	0.20	1.25	16.00	7.96
		2480	0.20	1.25	16.00	7.96

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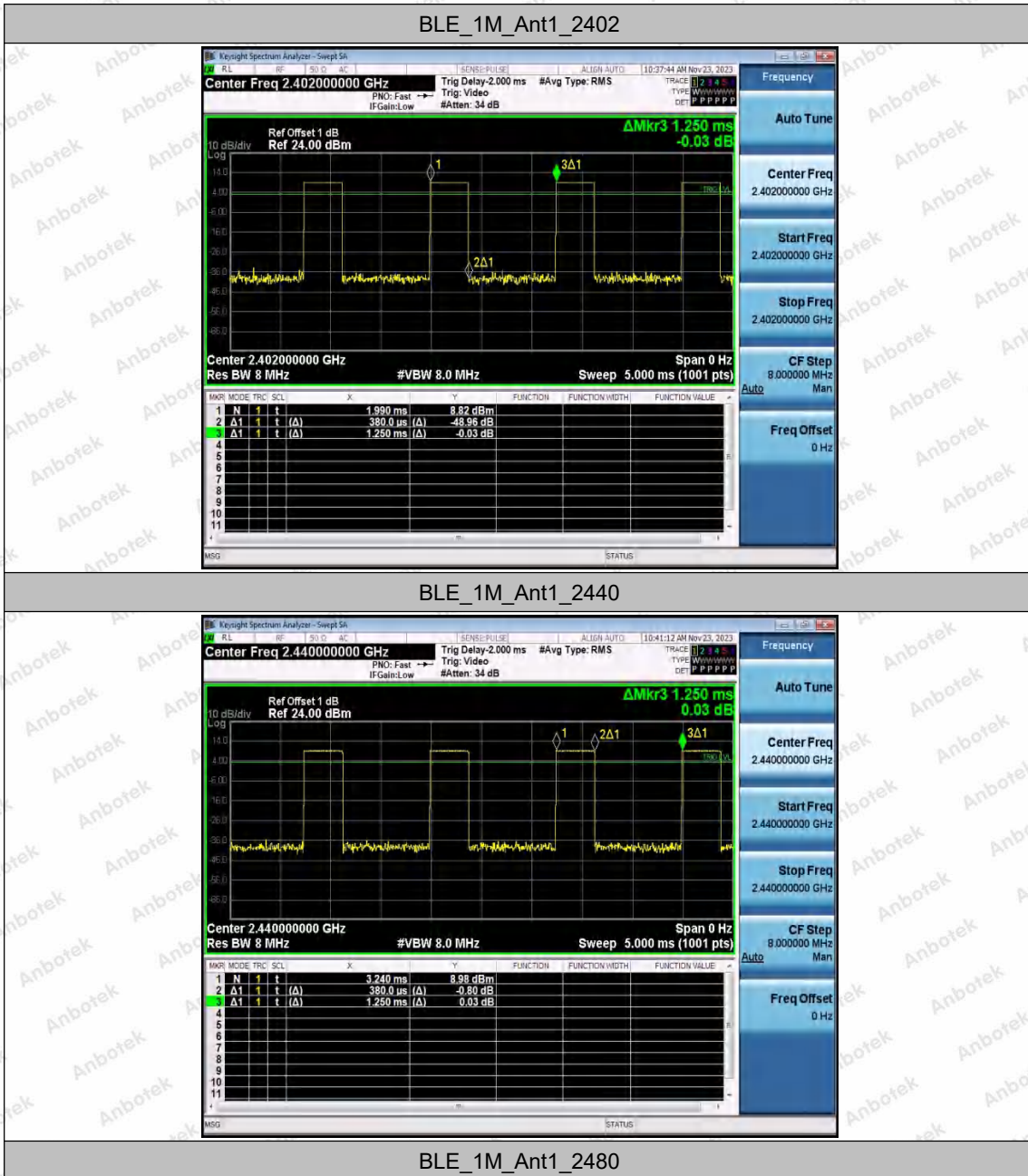
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Test Graphs

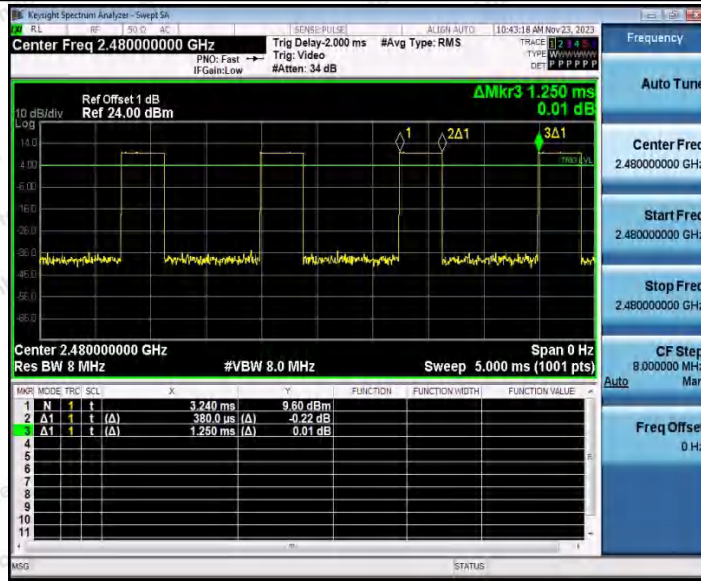


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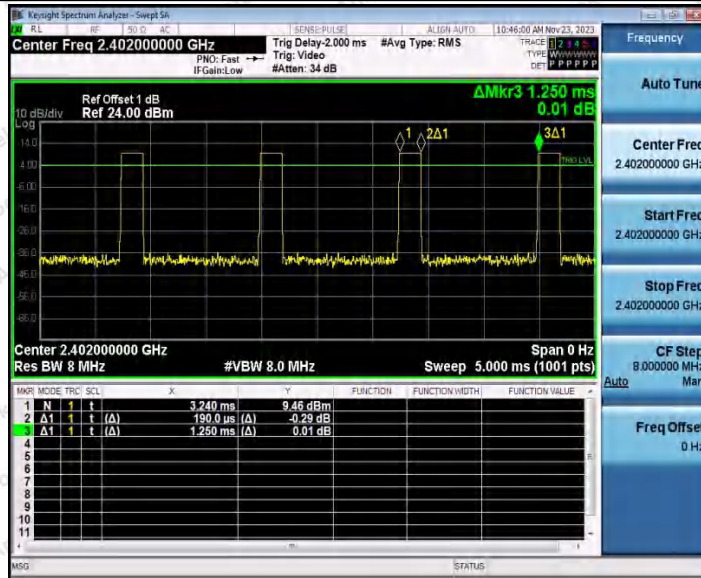
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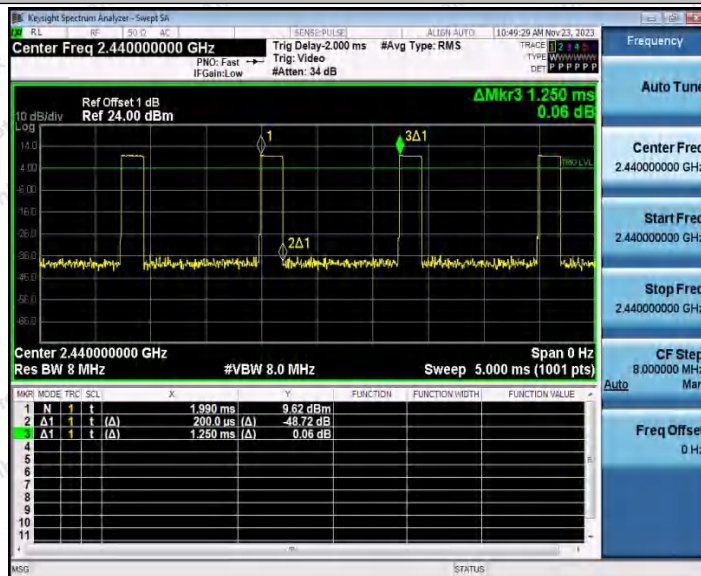




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

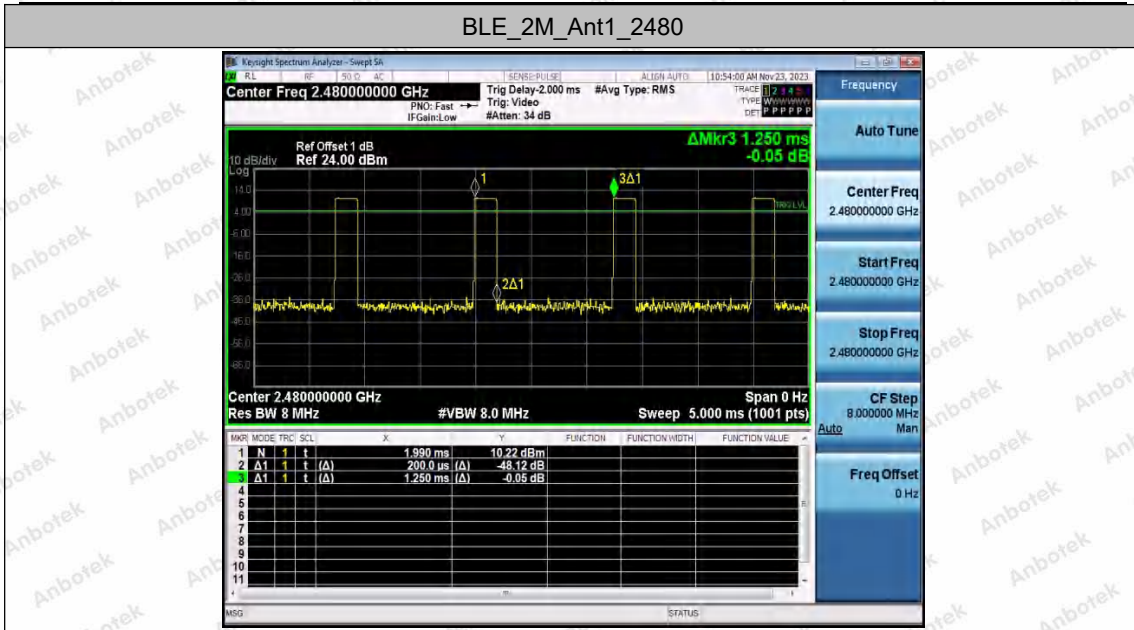


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