

Appendix Test Data

Report No:	18220WC20212602	Test Sample NO:	1-2-2
Start Test Date:	2022.9.7	Finish Test Date:	2022.10.18
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	27.3°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	0.632	2401.644	2402.276	0.5	PASS
		2440	0.644	2439.636	2440.280	0.5	PASS
		2480	0.636	2479.636	2480.272	0.5	PASS
BLE_2M	Ant1	2402	1.204	2401.312	2402.516	0.5	PASS
		2440	1.080	2439.420	2440.500	0.5	PASS
		2480	1.064	2479.432	2480.496	0.5	PASS



Test Graphs



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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	1.0297	2401.4478	2402.4775
		2440	1.0260	2439.4450	2440.4710
		2480	1.0297	2479.4419	2480.4716
BLE_2M	Ant1	2402	2.0397	2400.9520	2402.9917
		2440	2.0444	2438.9447	2440.9891
		2480	2.0384	2478.9532	2480.9916

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Test Graphs



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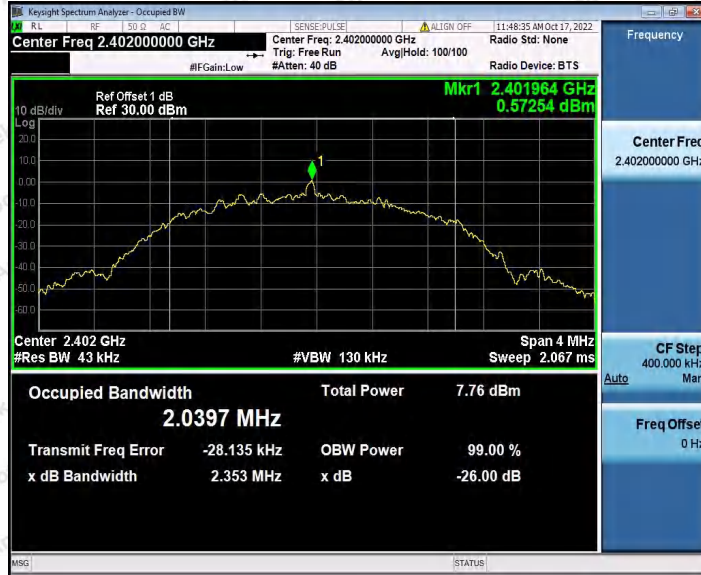
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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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	1.62	≤30	PASS
		2440	1.90	≤30	PASS
		2480	2.10	≤30	PASS
BLE_2M	Ant1	2402	2.02	≤30	PASS
		2440	2.22	≤30	PASS
		2480	2.48	≤30	PASS

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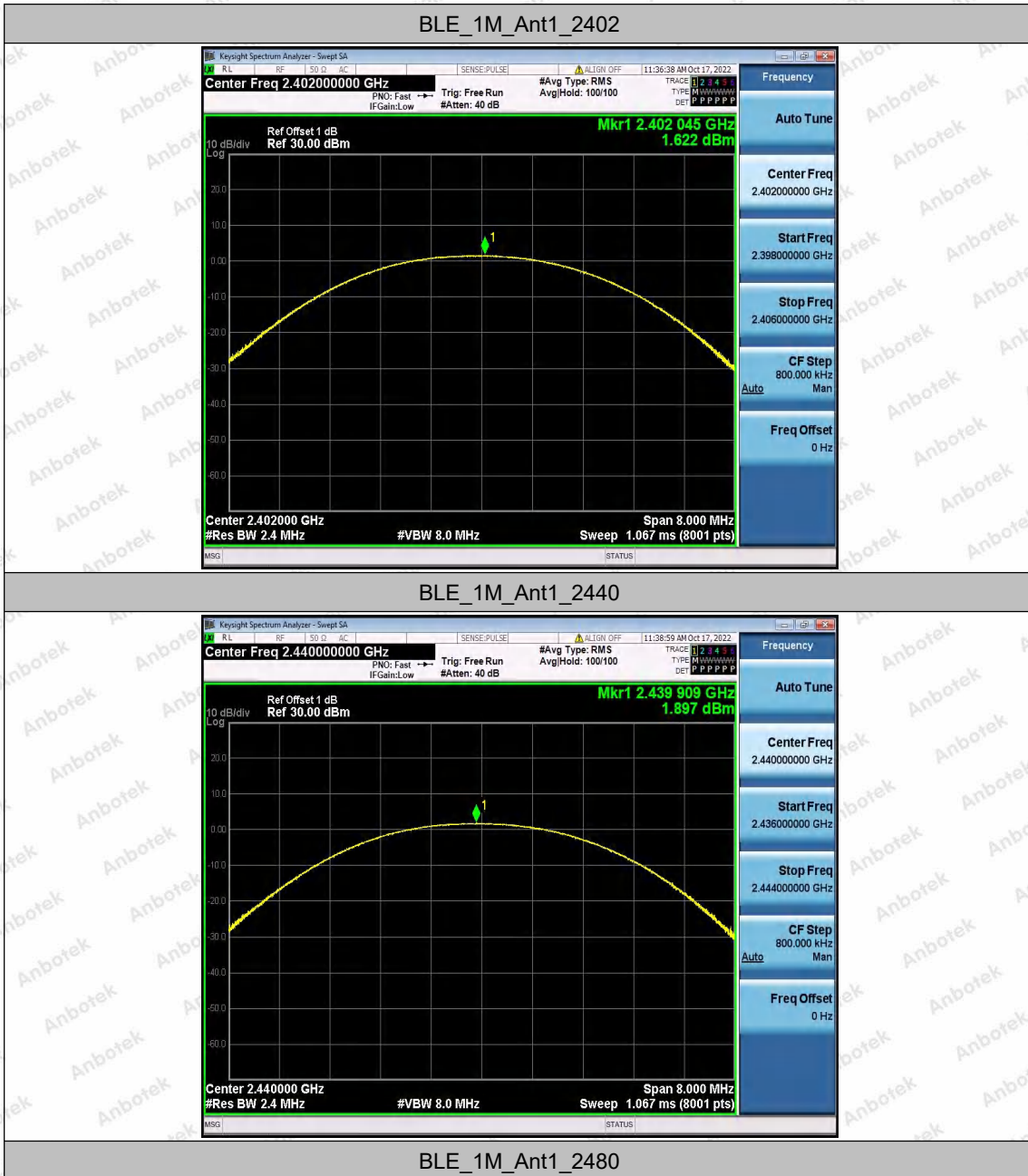
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Test Graphs Peak



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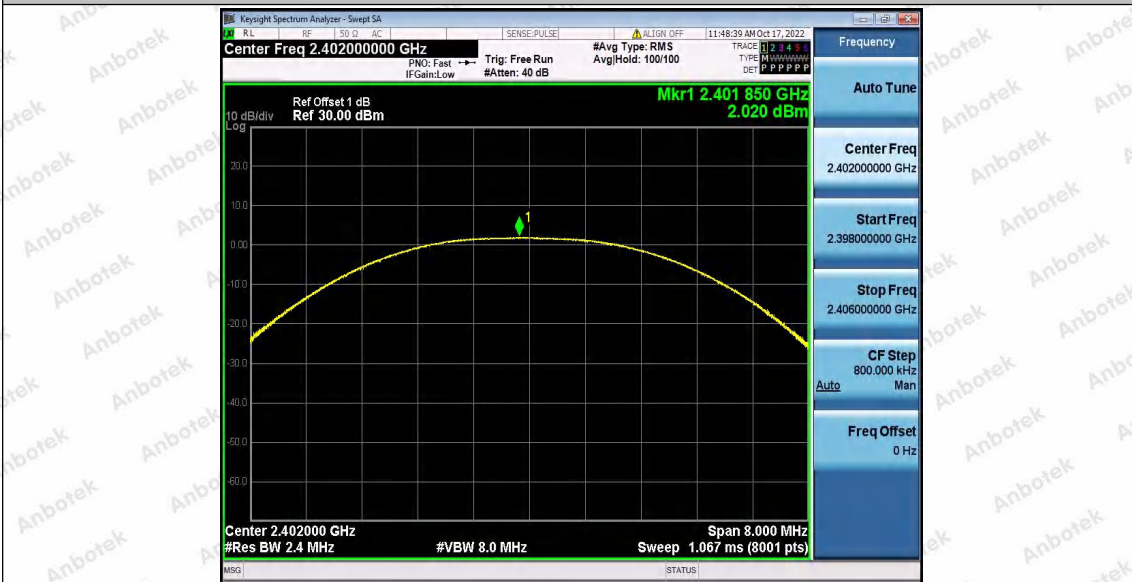
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BLE_2M_Ant1_2402



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	-13.68	≤8.00	PASS
		2440	-13.56	≤8.00	PASS
		2480	-13.27	≤8.00	PASS
BLE_2M	Ant1	2402	-15.18	≤8.00	PASS
		2440	-15.11	≤8.00	PASS
		2480	-14.64	≤8.00	PASS



Test Graphs



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	0.06	-51.95	≤-19.95	PASS
		High	2480	1.89	-56.84	≤-18.11	PASS
BLE_2M	Ant1	Low	2402	1.58	-46.9	≤-18.42	PASS
		High	2480	1.58	-56.77	≤-18.42	PASS

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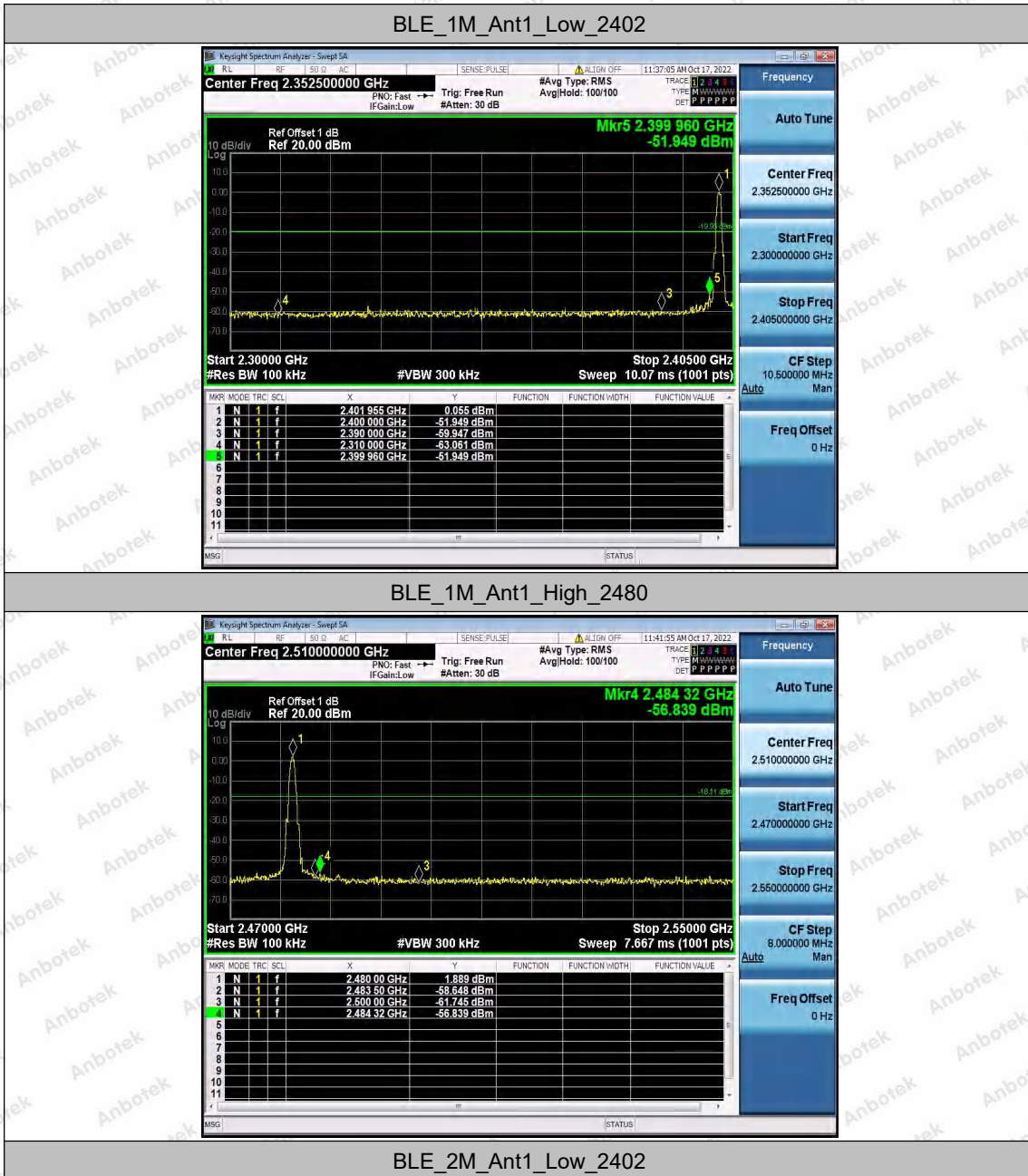
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Test Graphs

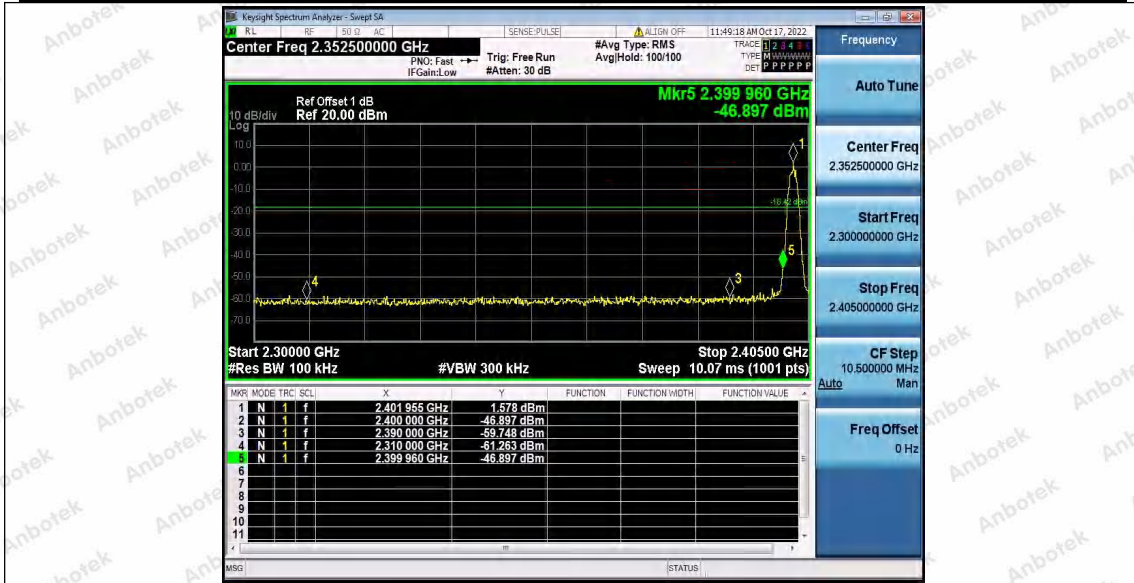


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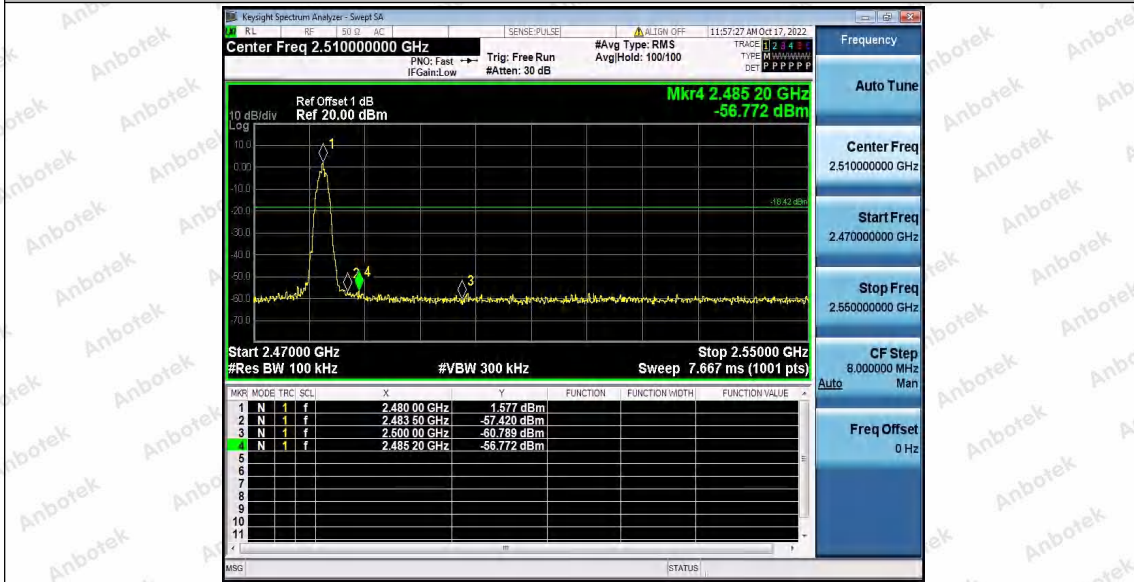
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BLE_2M_Ant1_High_2480



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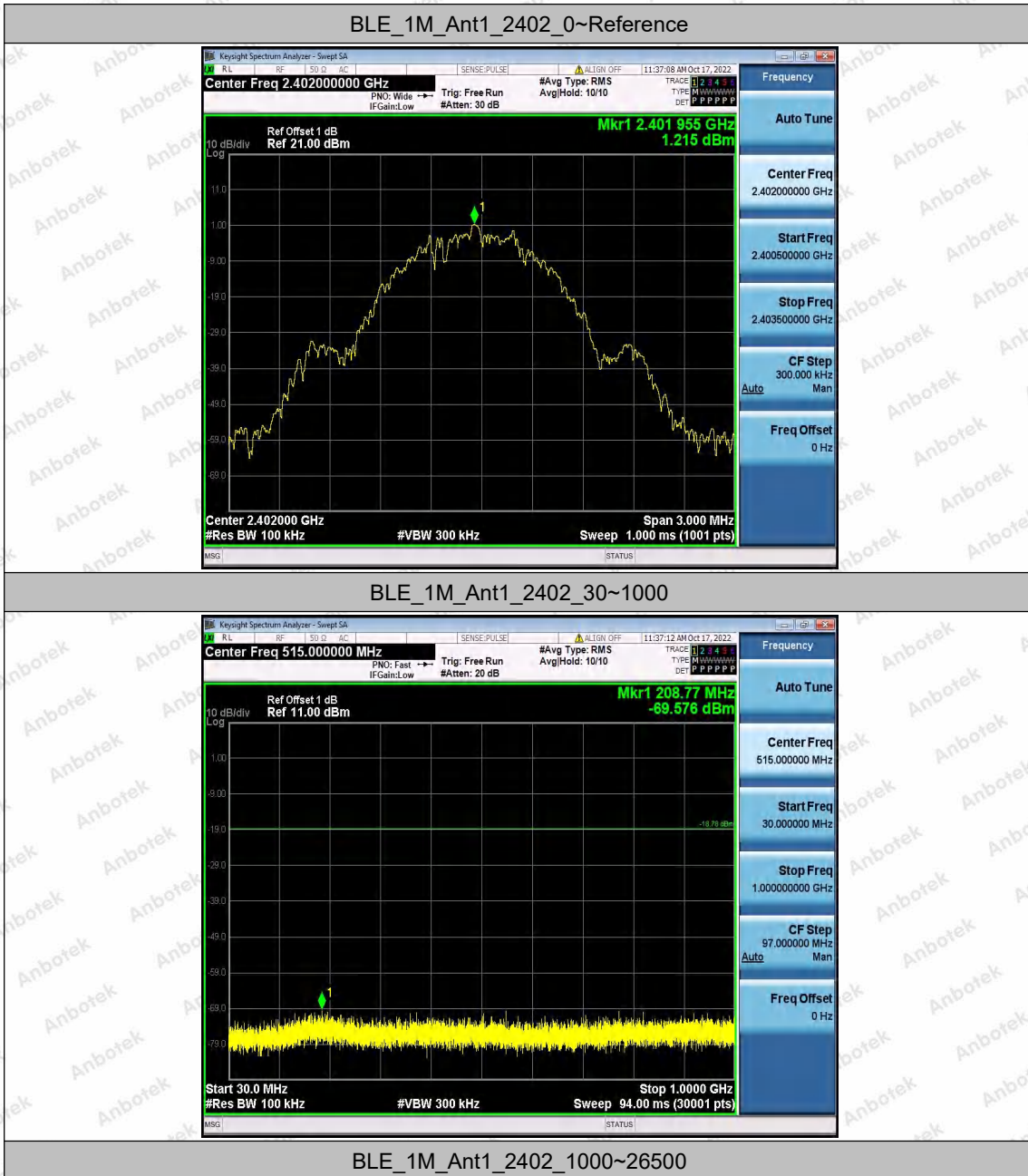
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-69.58	≤-18.78	PASS
			1000~26500	1.22	-53.49	≤-18.78	PASS
		2440	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-69.22	≤-20.17	PASS
			1000~26500	-0.17	-53.19	≤-20.17	PASS
		2480	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-69.63	≤-20.42	PASS
			1000~26500	-0.42	-48.24	≤-20.42	PASS
BLE_2M	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-67.37	≤-21.91	PASS
			1000~26500	-1.91	-53.24	≤-21.91	PASS
		2440	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-69.81	≤-19.33	PASS
			1000~26500	0.67	-53.35	≤-19.33	PASS
		2480	Reference	-2.12	-2.12	---	PASS
			30~1000	-2.12	-69.83	≤-22.12	PASS
			1000~26500	-2.12	-54.38	≤-22.12	PASS



Test Graphs

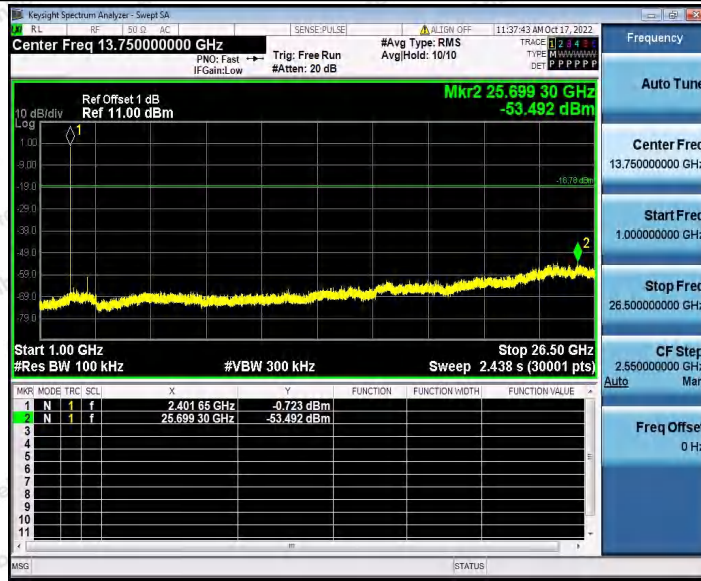


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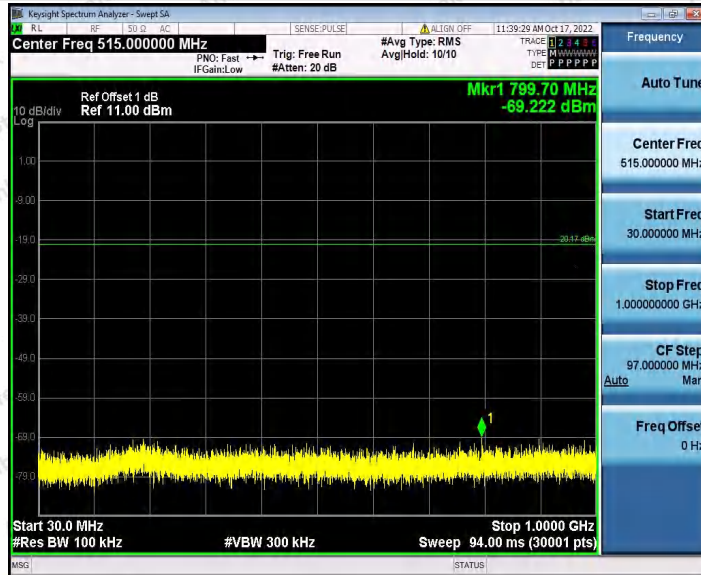




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



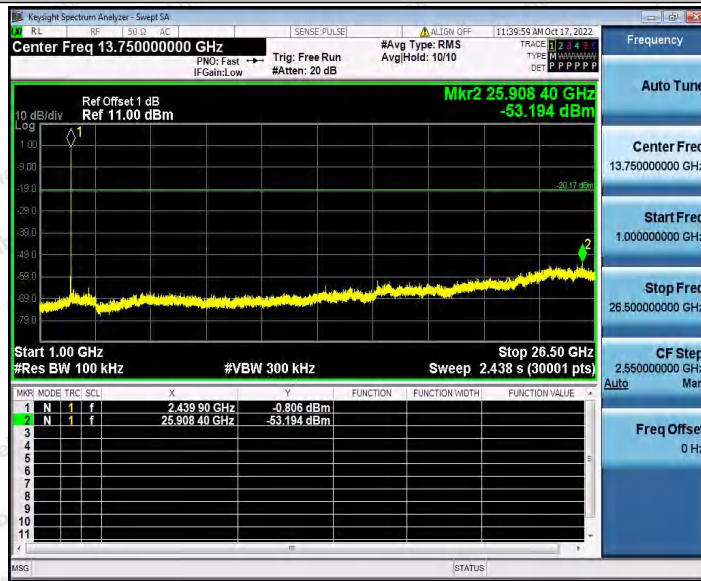
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



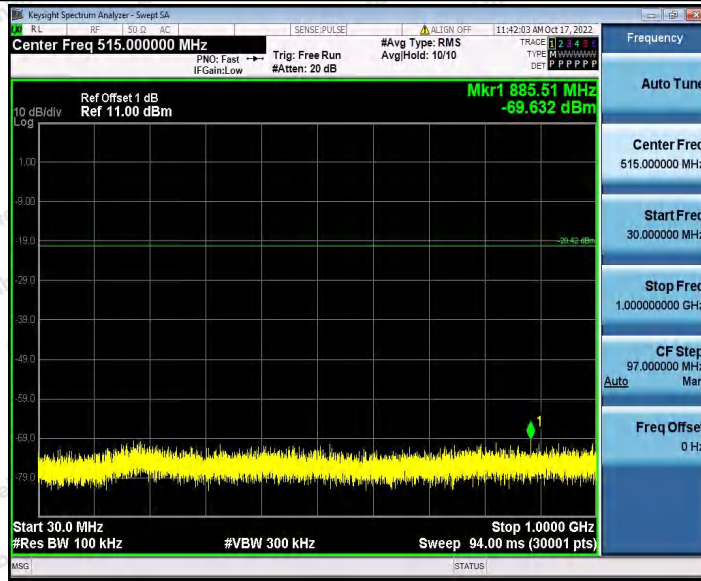
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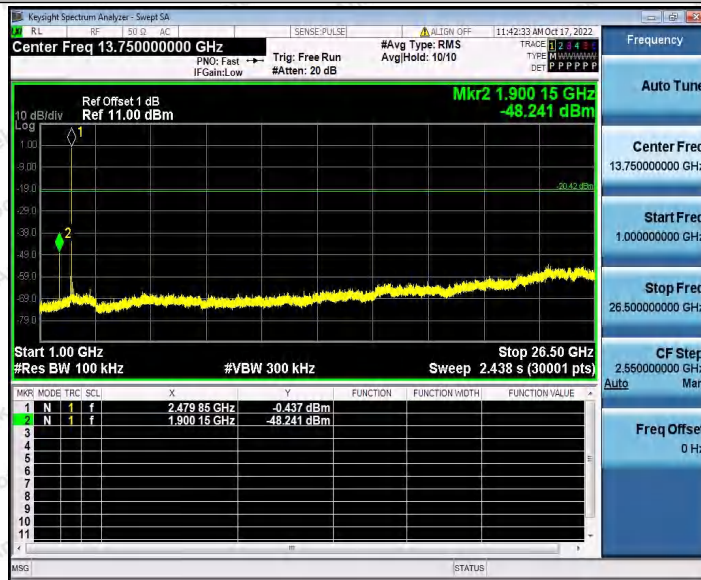
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



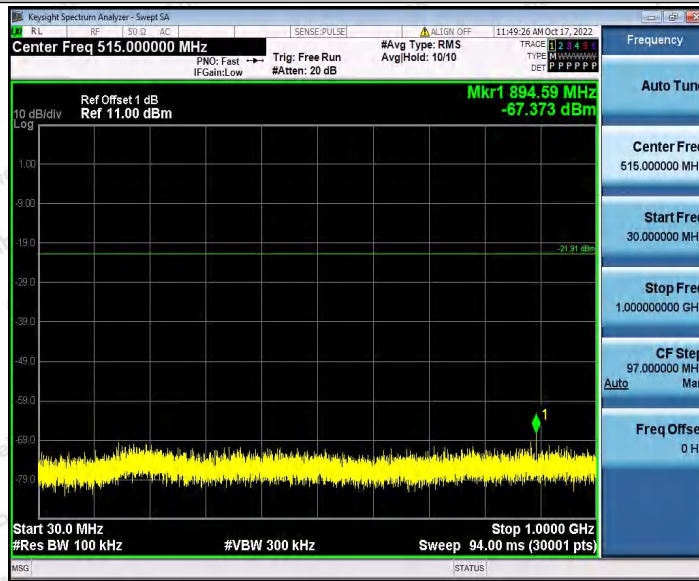
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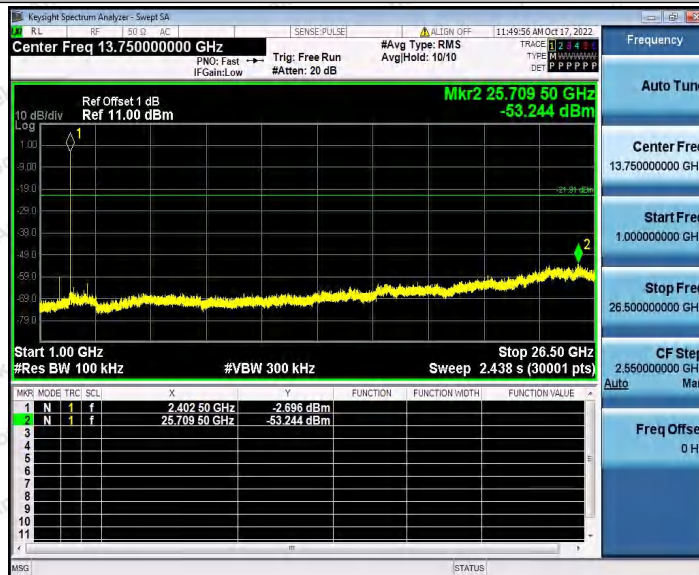
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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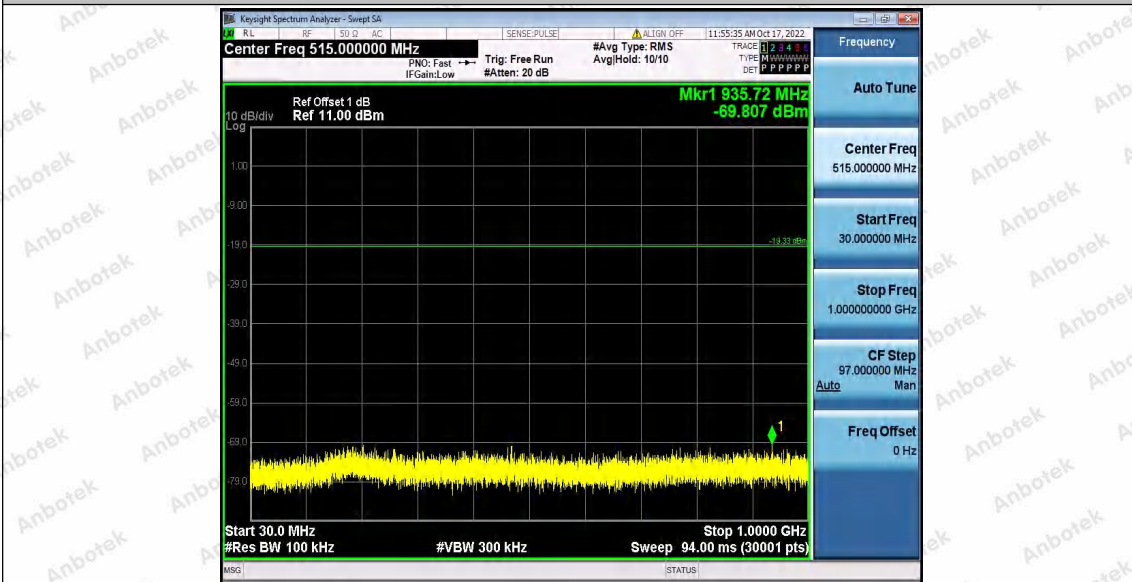
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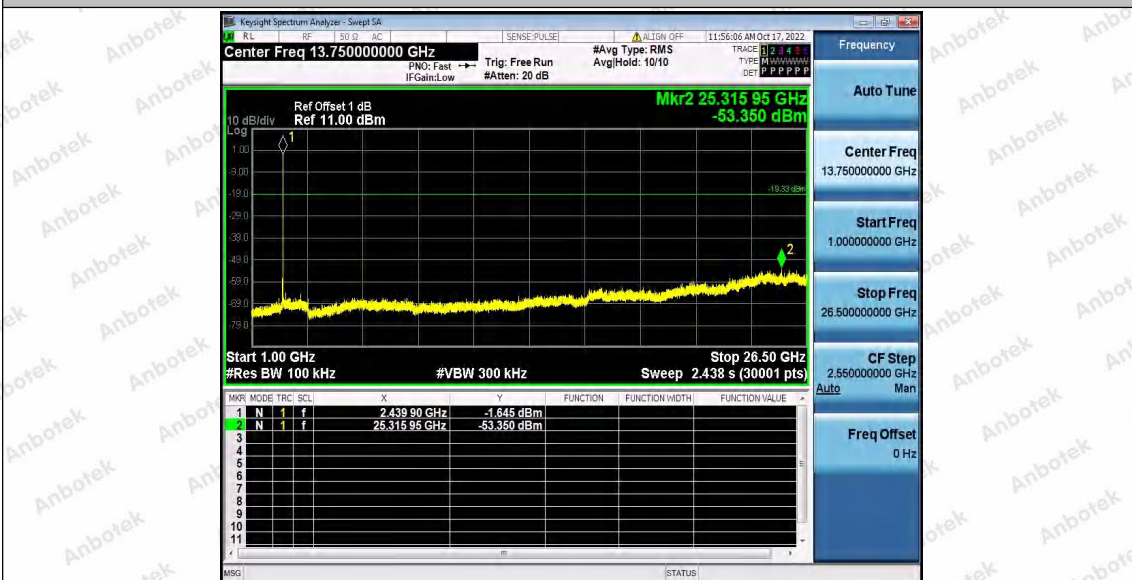




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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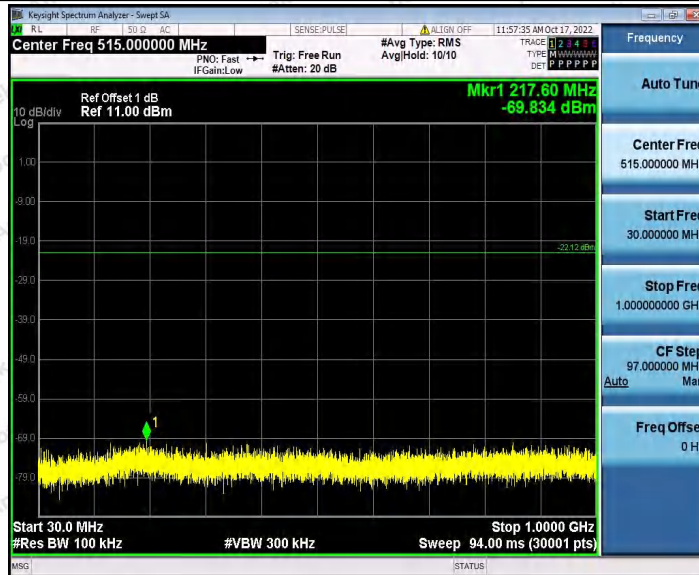
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



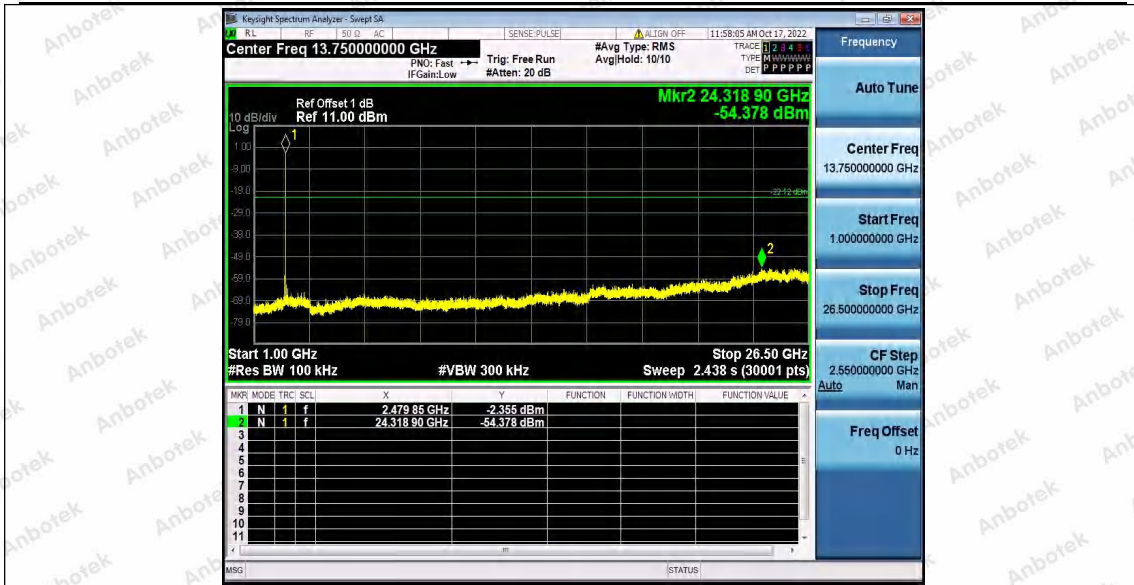
BLE_2M_Ant1_2480_1000~26500

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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	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49

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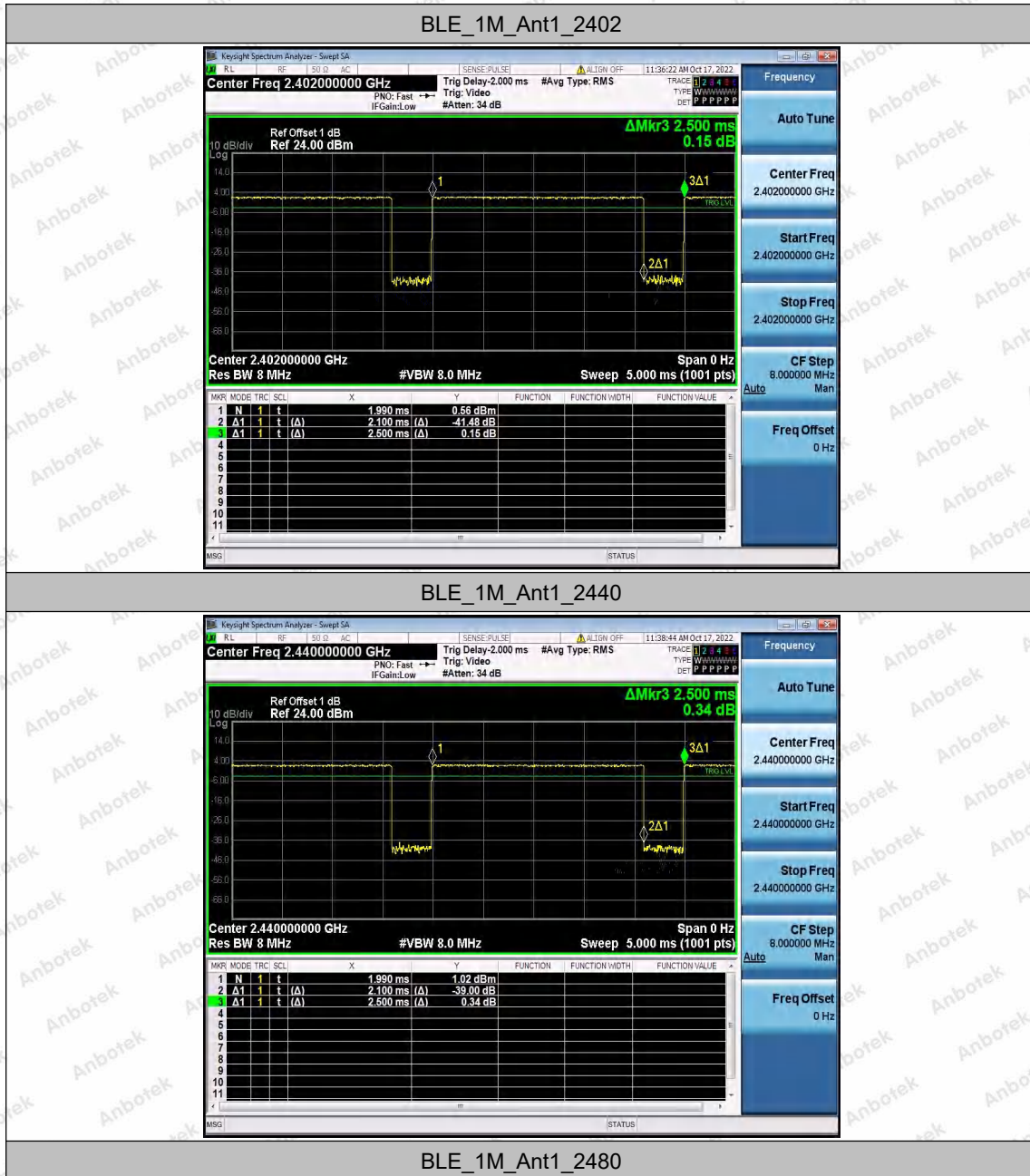
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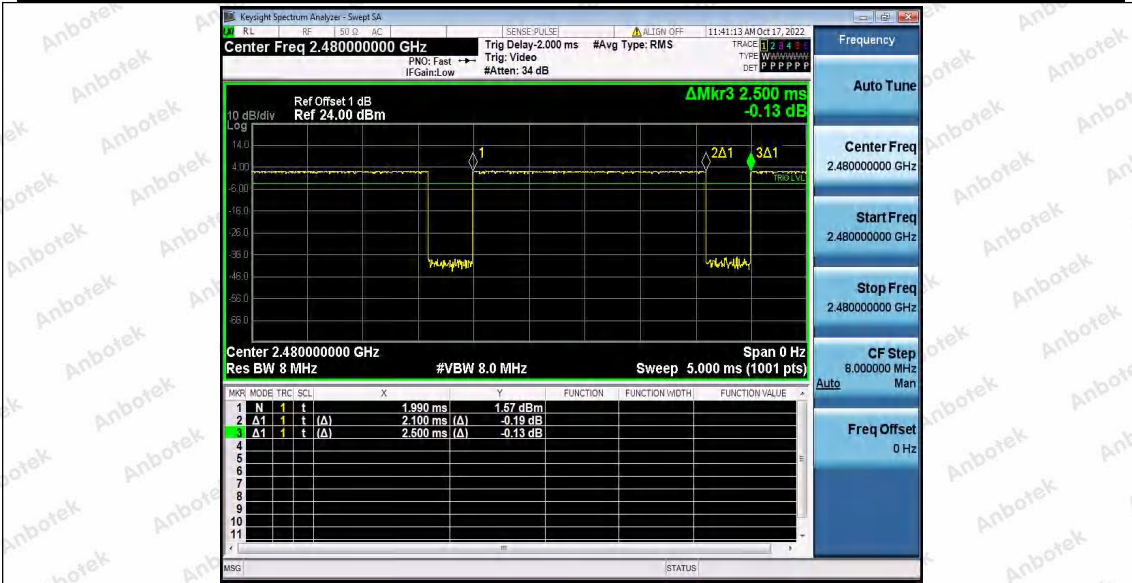


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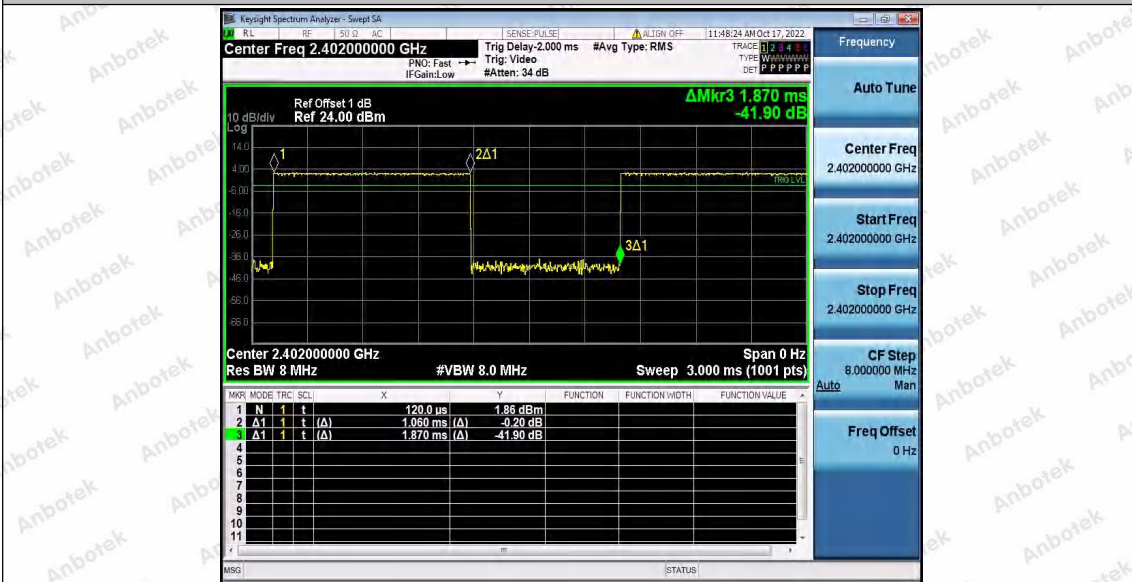
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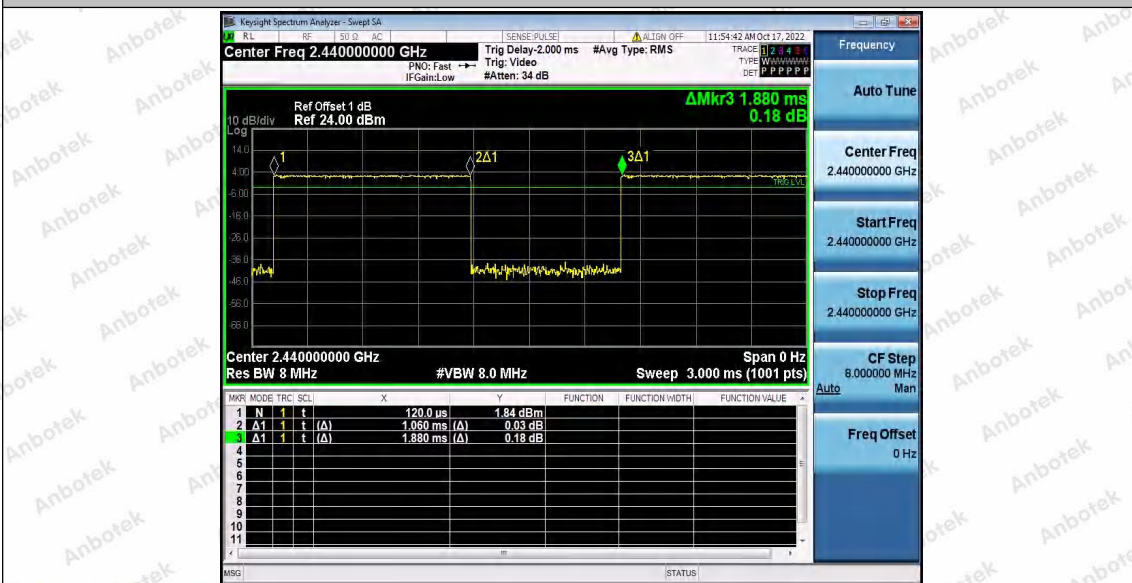




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

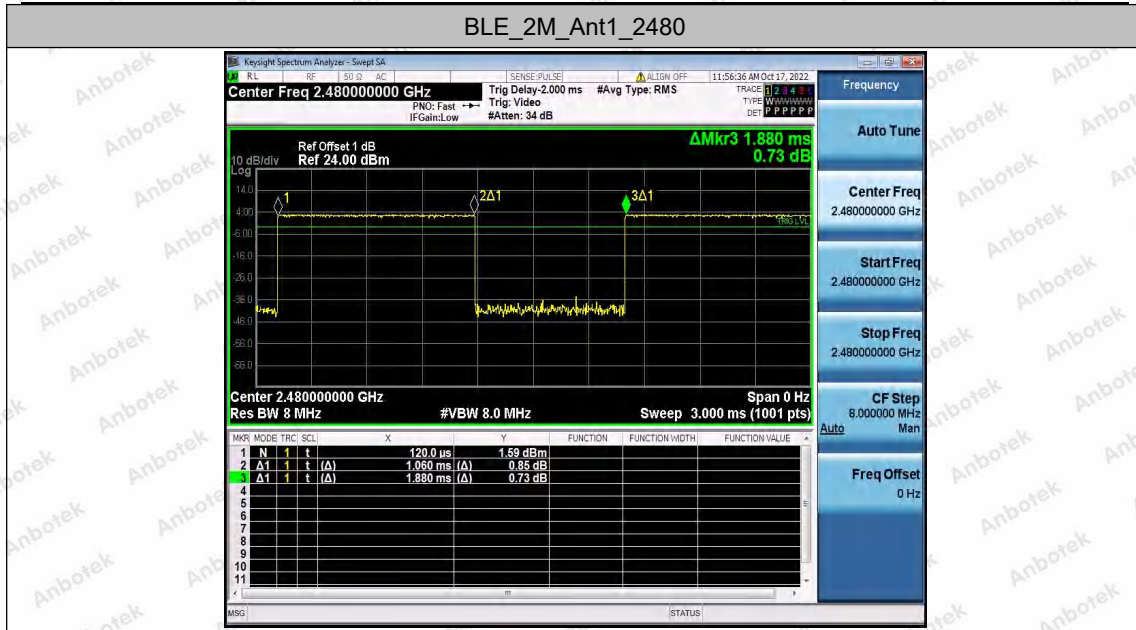


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