

Appendix Test Data

Report No.:	18220WC30040201	Test Sample No.:	1-2-2
Start Test Date:	2023.03.14	Finish Test Date:	2023.03.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	0.636	2401.636	2402.272	0.5	PASS
		2440	0.648	2439.628	2440.276	0.5	PASS
		2480	0.644	2479.632	2480.276	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.416	2402.500	0.5	PASS
		2440	1.096	2439.416	2440.512	0.5	PASS
		2480	1.324	2479.288	2480.612	0.5	PASS

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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 B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0379	2401.4408	2402.4787
		2440	1.0241	2439.4466	2440.4707
		2480	1.0313	2479.4373	2480.4686
BLE_2M	Ant1	2402	2.0505	2400.9492	2402.9997
		2440	2.0436	2438.9493	2440.9929
		2480	2.0418	2478.9489	2480.9907

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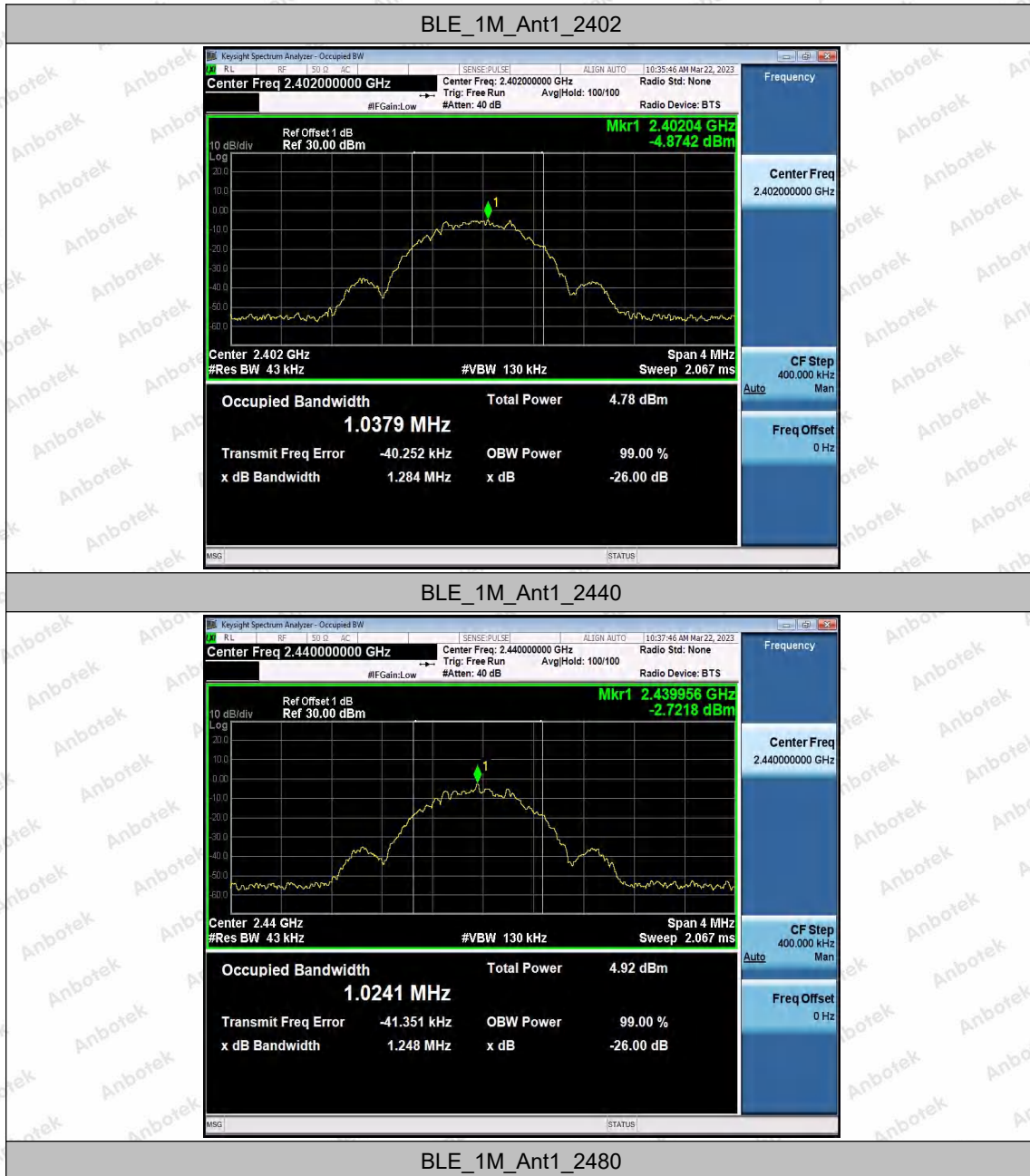
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.97	≤30	PASS
		2440	-1.26	≤30	PASS
		2480	-0.86	≤30	PASS
BLE_2M	Ant1	2402	-0.67	≤30	PASS
		2440	-0.66	≤30	PASS
		2480	-0.68	≤30	PASS

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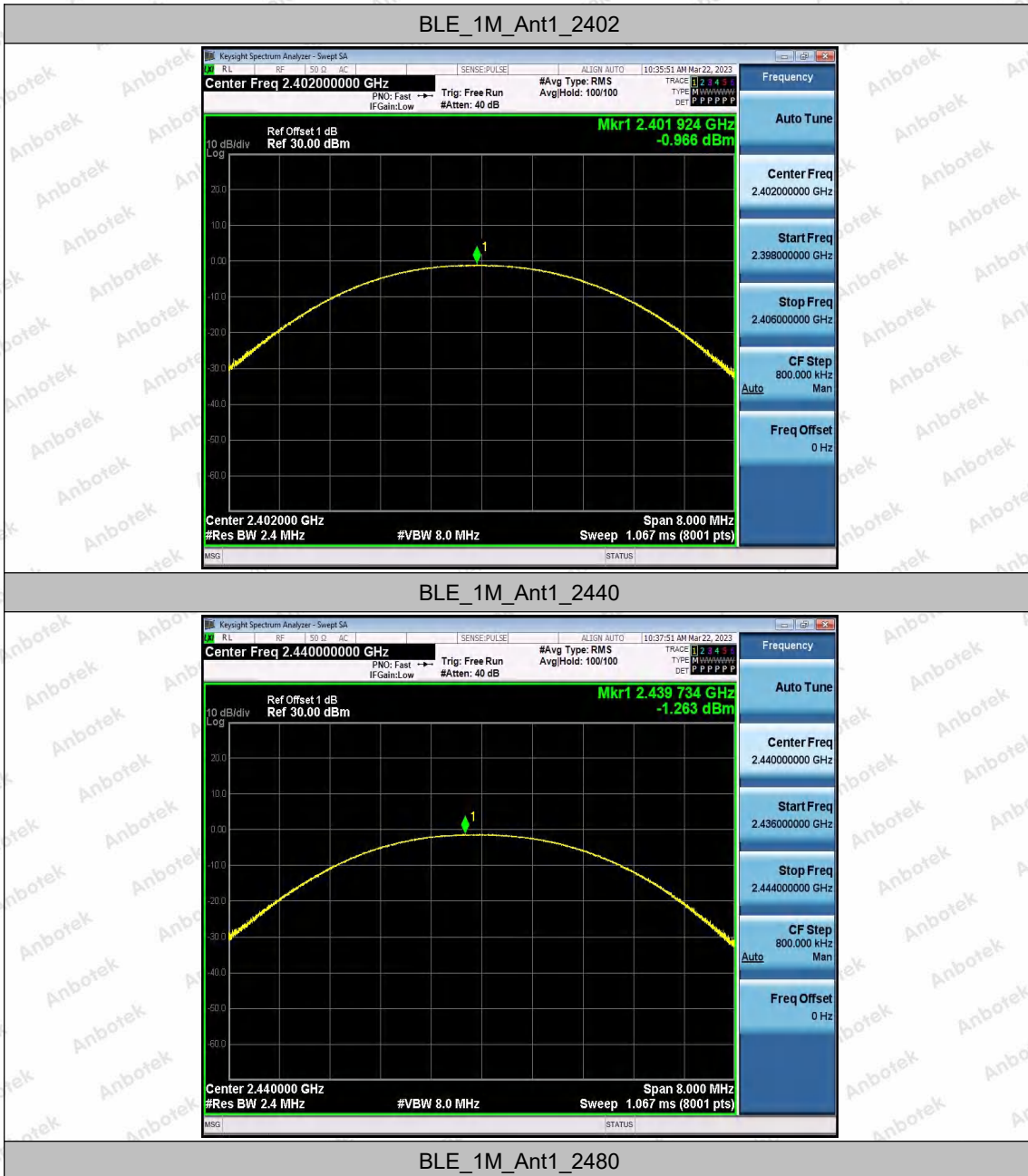
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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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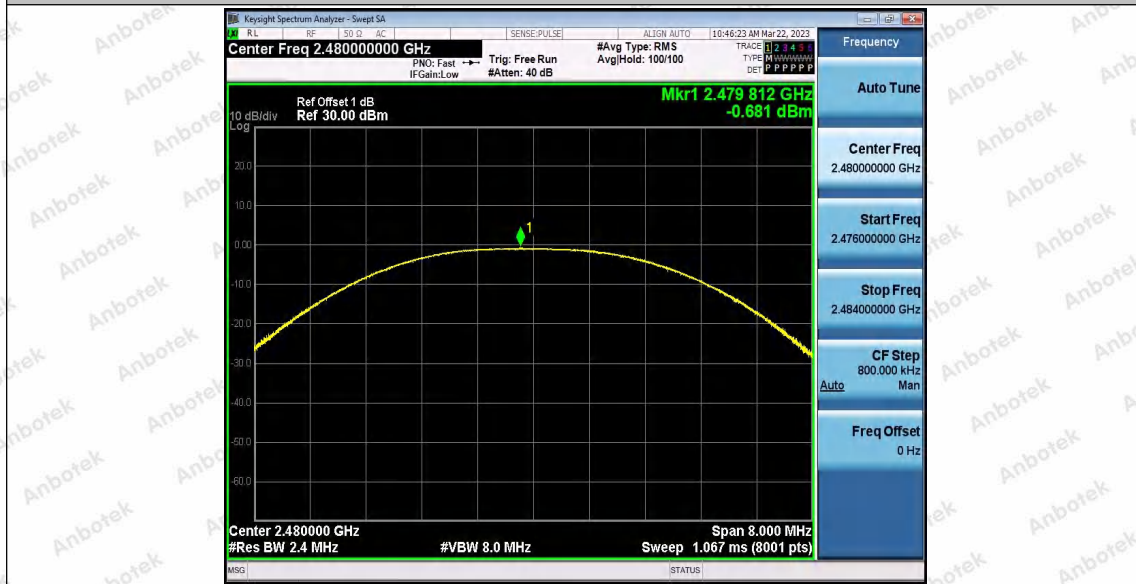


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BLE_2M_Ant1_2480



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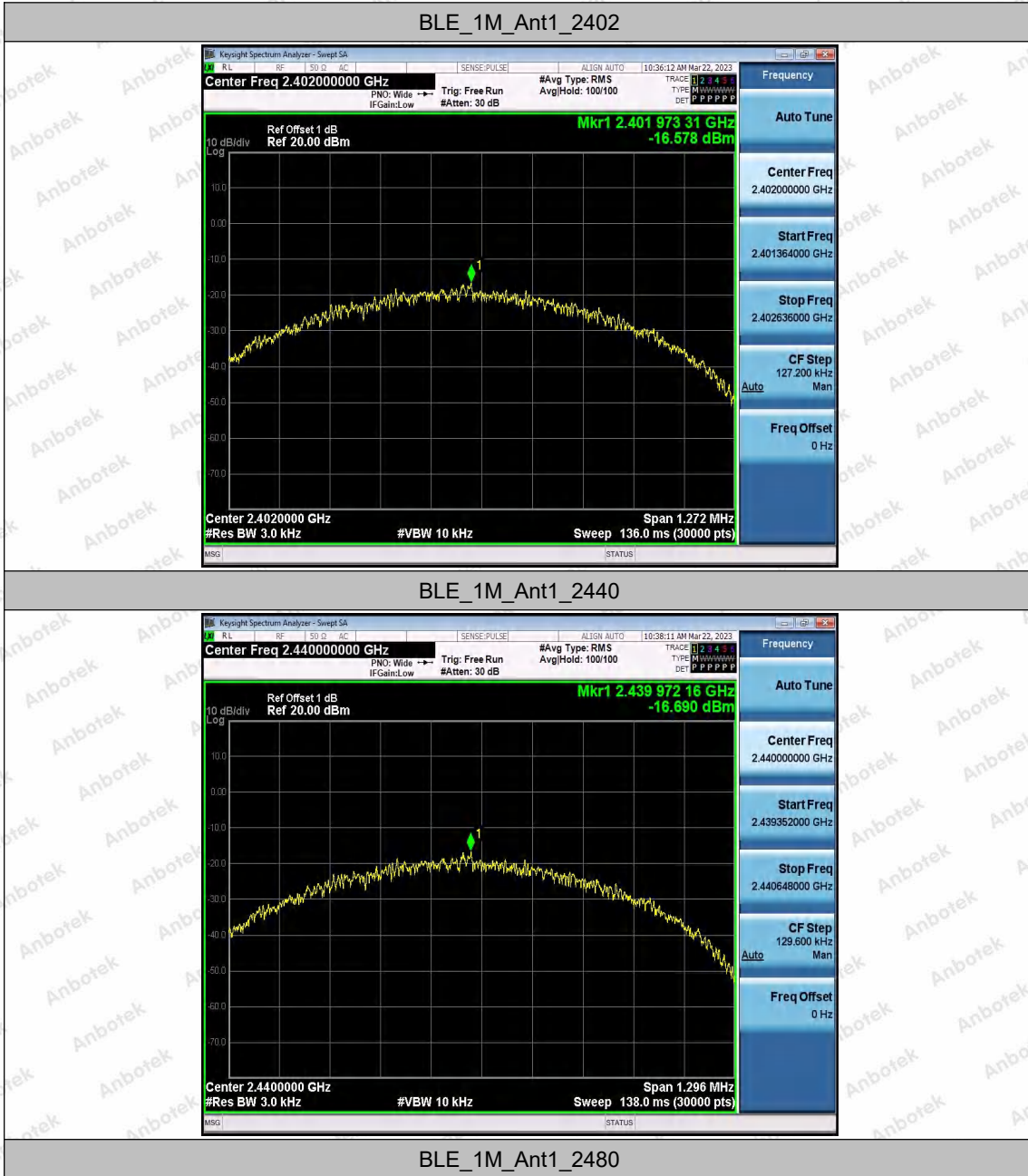
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.58	≤8.00	PASS
		2440	-16.69	≤8.00	PASS
		2480	-16.28	≤8.00	PASS
BLE_2M	Ant1	2402	-17.74	≤8.00	PASS
		2440	-17.81	≤8.00	PASS
		2480	-17.64	≤8.00	PASS



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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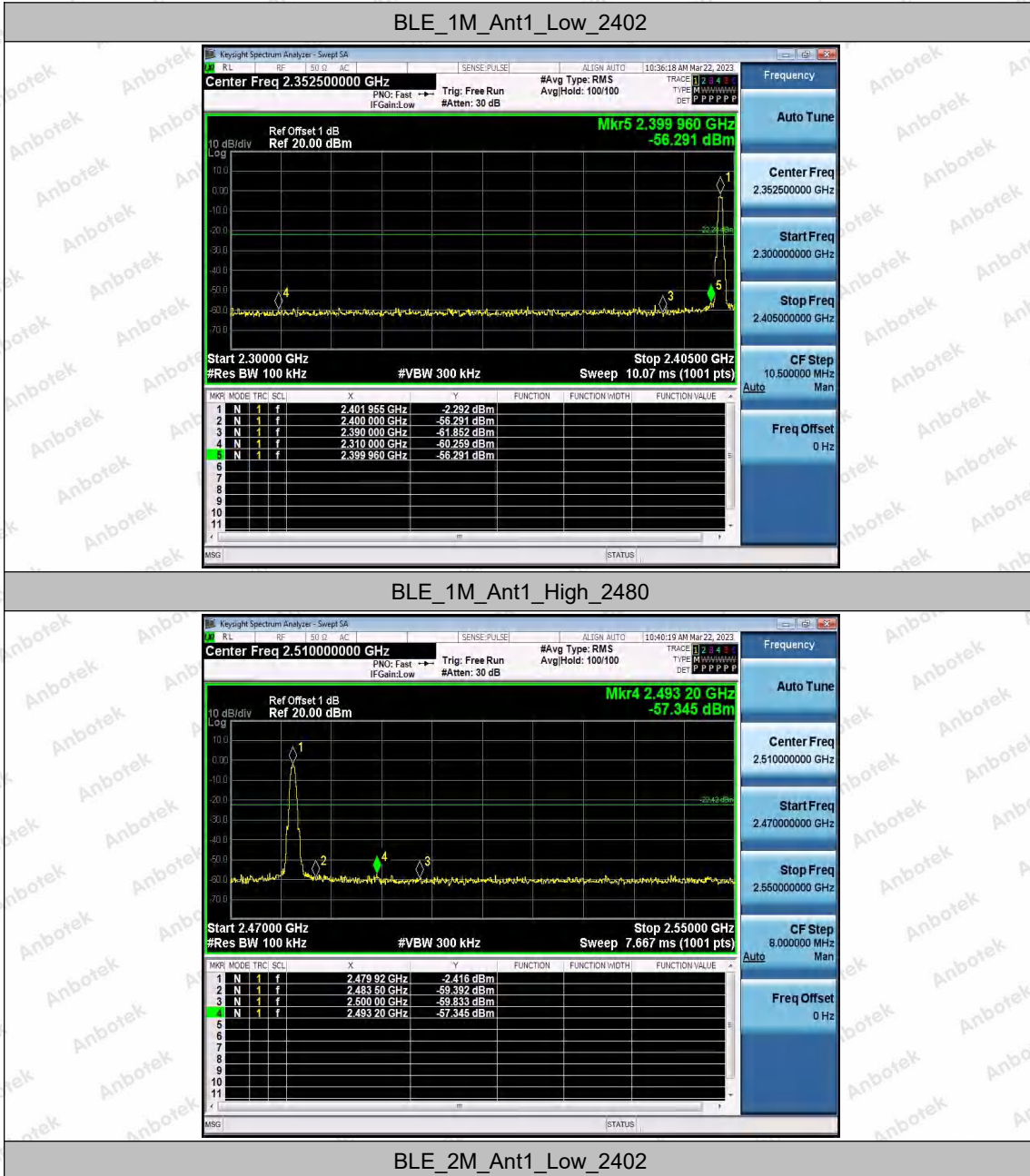
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.29	-56.29	≤-22.29	PASS
		High	2480	-2.42	-57.35	≤-22.42	PASS
BLE_2M	Ant1	Low	2402	-3.23	-49.74	≤-23.23	PASS
		High	2480	-3.61	-56.89	≤-23.61	PASS



Test Graphs

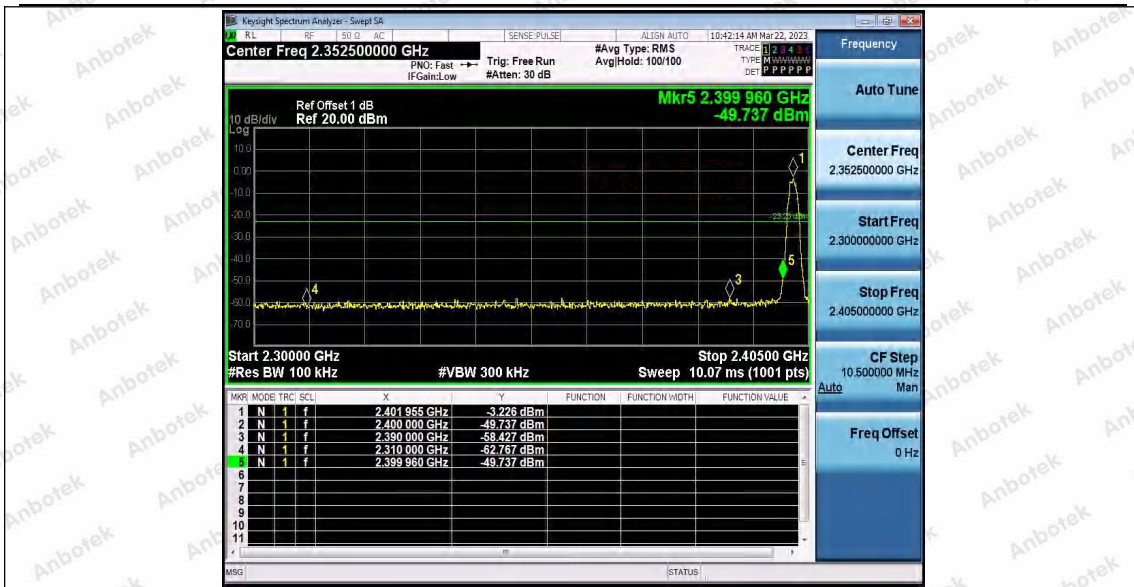


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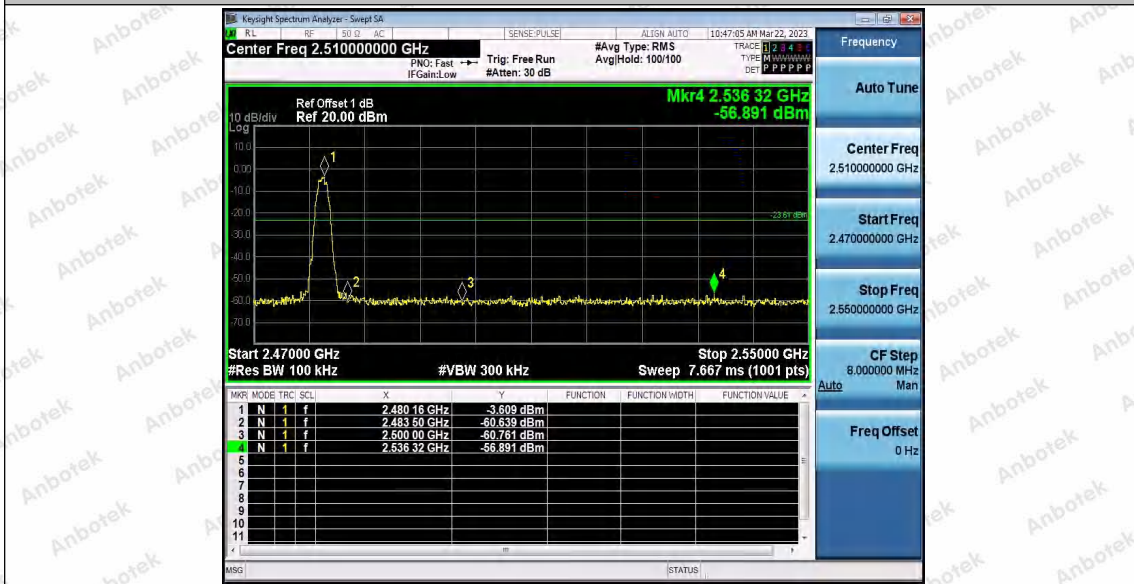
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BLE_2M_Ant1_High_2480



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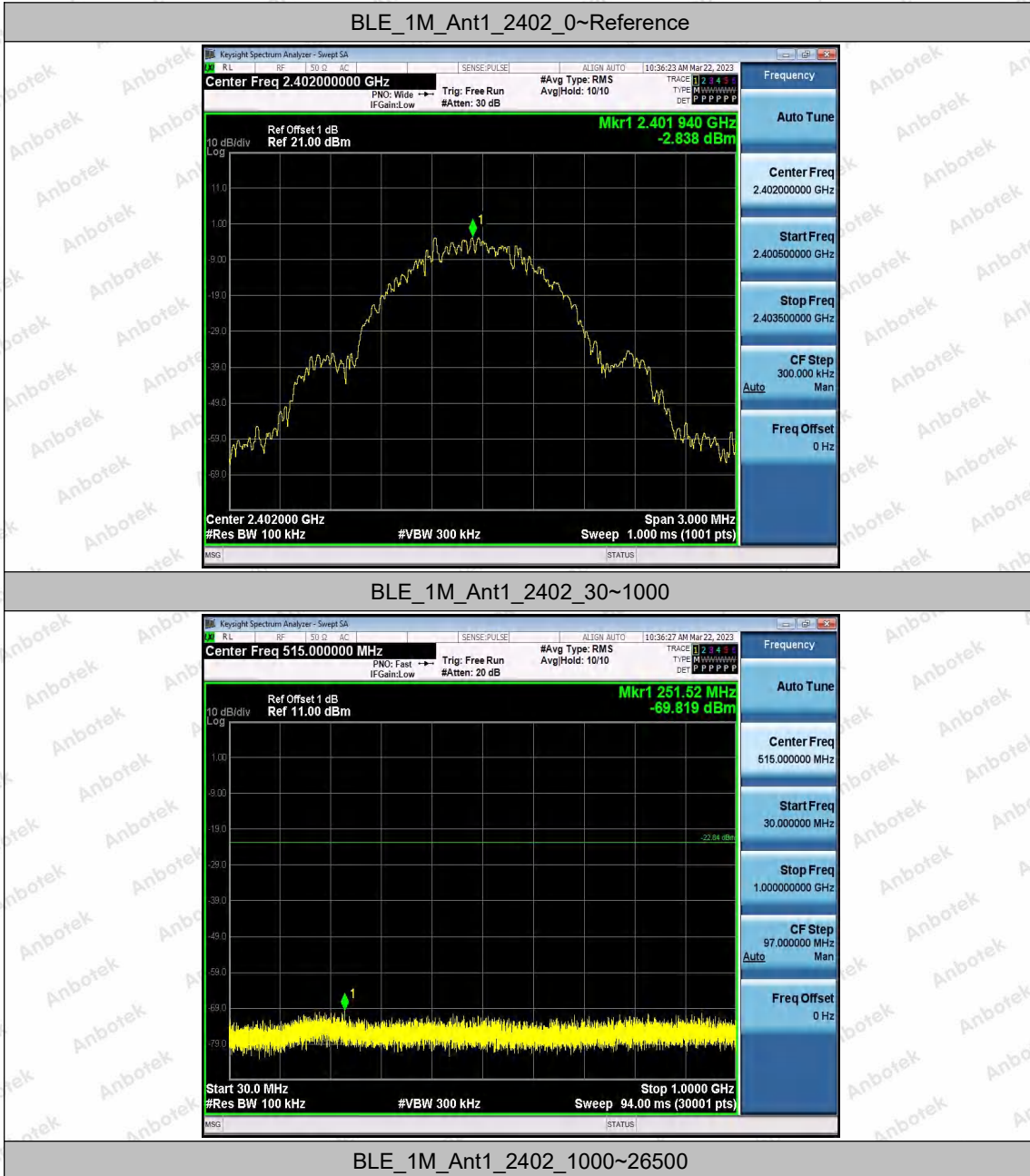
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-69.82	≤-22.84	PASS
			1000~26500	-2.84	-44.76	≤-22.84	PASS
		2440	Reference	-1.78	-1.78	---	PASS
			30~1000	-1.78	-69.19	≤-21.78	PASS
			1000~26500	-1.78	-54.19	≤-21.78	PASS
		2480	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-68.5	≤-22.89	PASS
			1000~26500	-2.89	-53.26	≤-22.89	PASS
BLE_2M	Ant1	2402	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-68.63	≤-25.26	PASS
			1000~26500	-5.26	-53.1	≤-25.26	PASS
		2440	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-68.96	≤-24.23	PASS
			1000~26500	-4.23	-53.66	≤-24.23	PASS
		2480	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-69.17	≤-23.8	PASS
			1000~26500	-3.80	-45.18	≤-23.8	PASS



Test Graphs

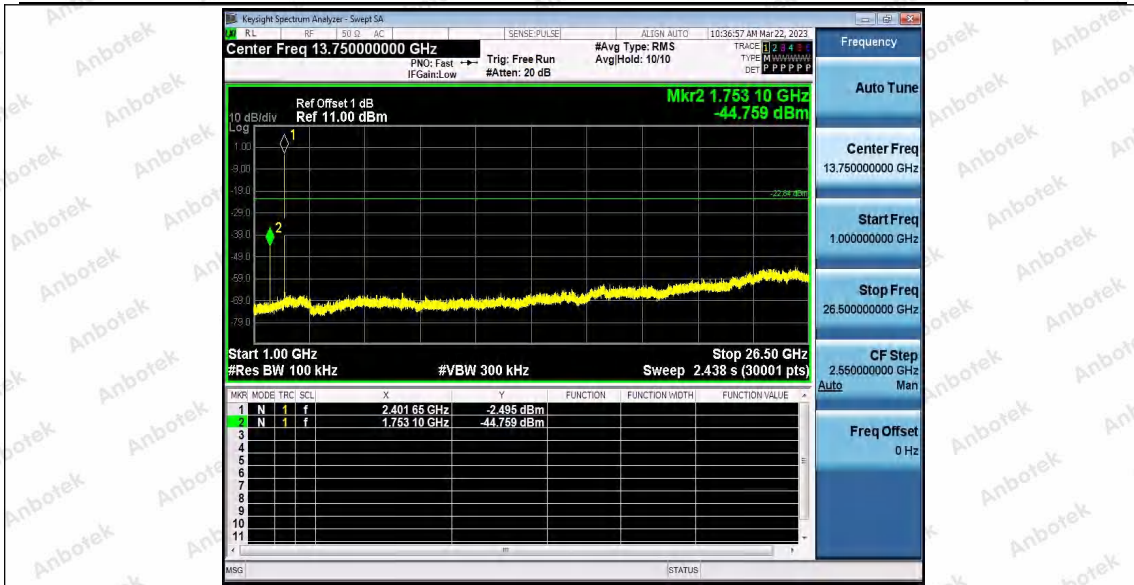


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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

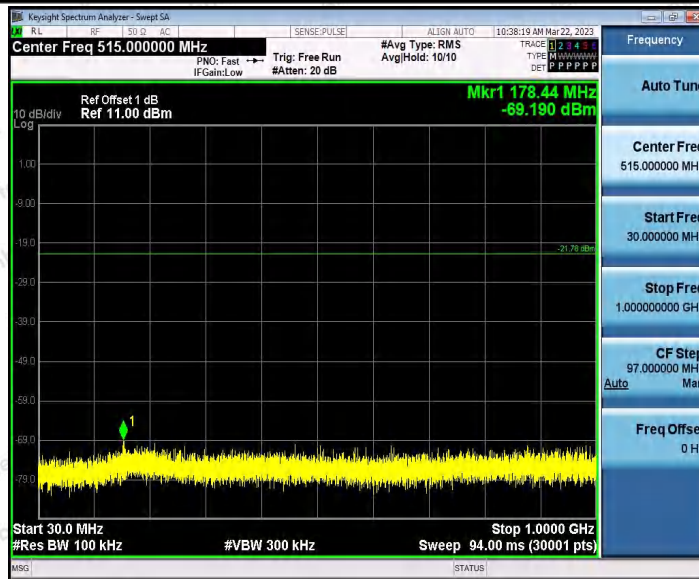
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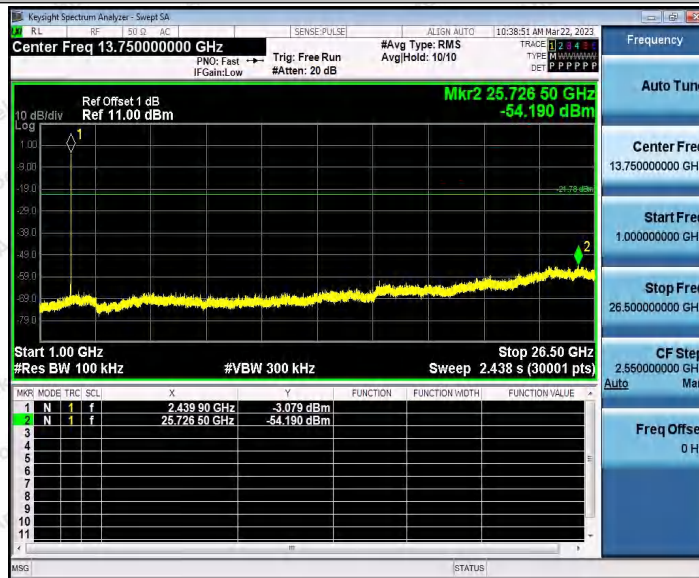


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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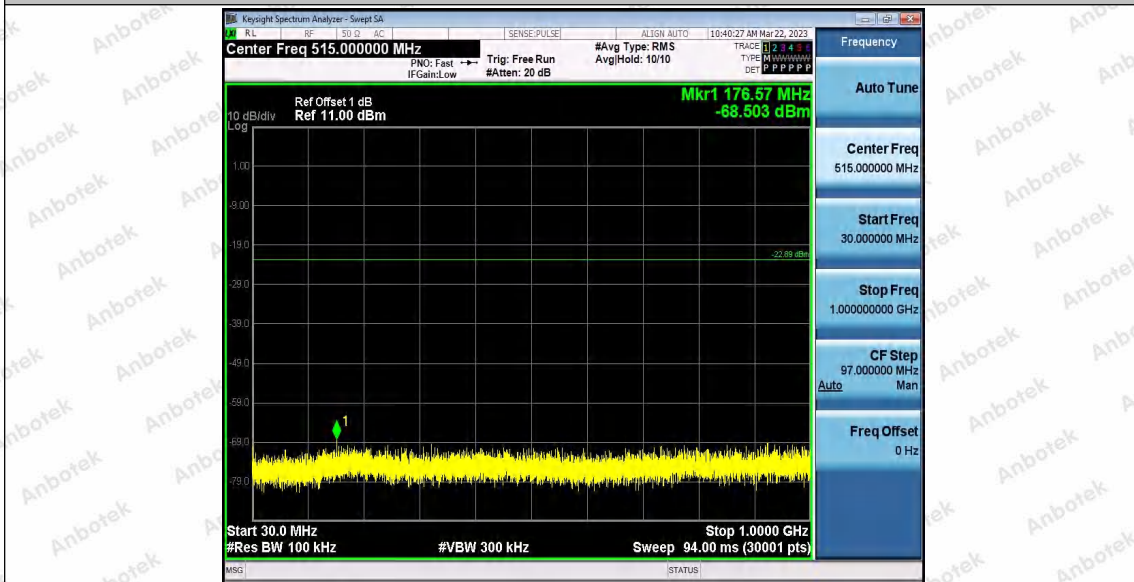
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

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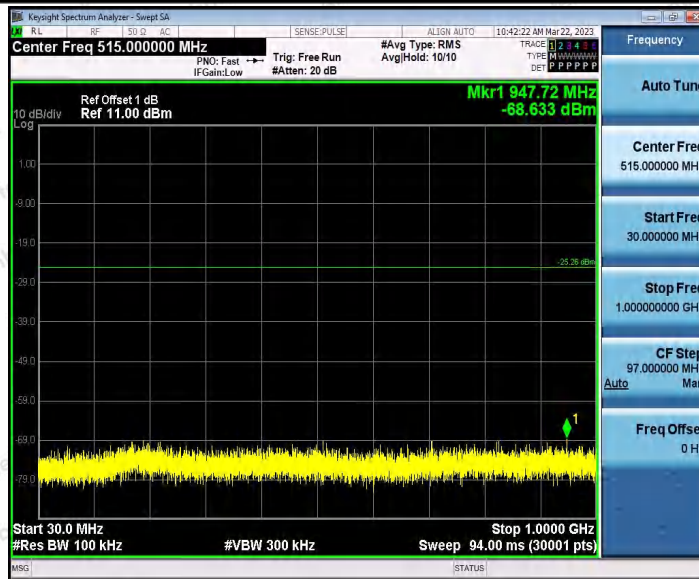
BLE_2M_Ant1_2402_30~1000

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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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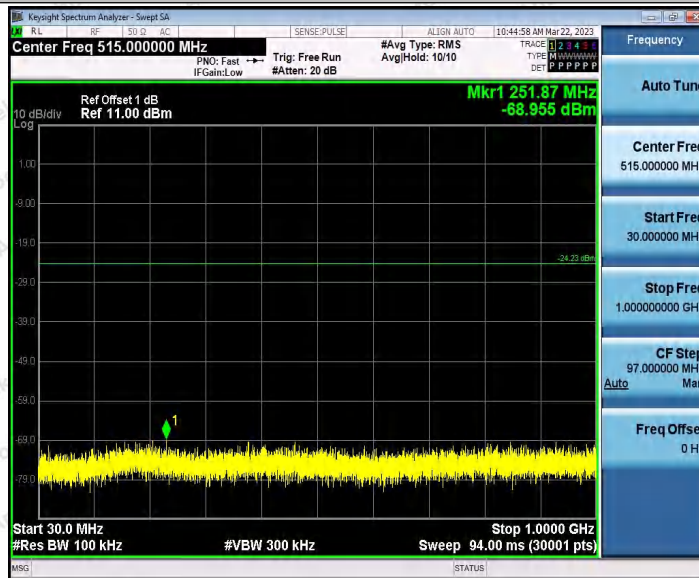


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BLE_2M_Ant1_2440_30~1000



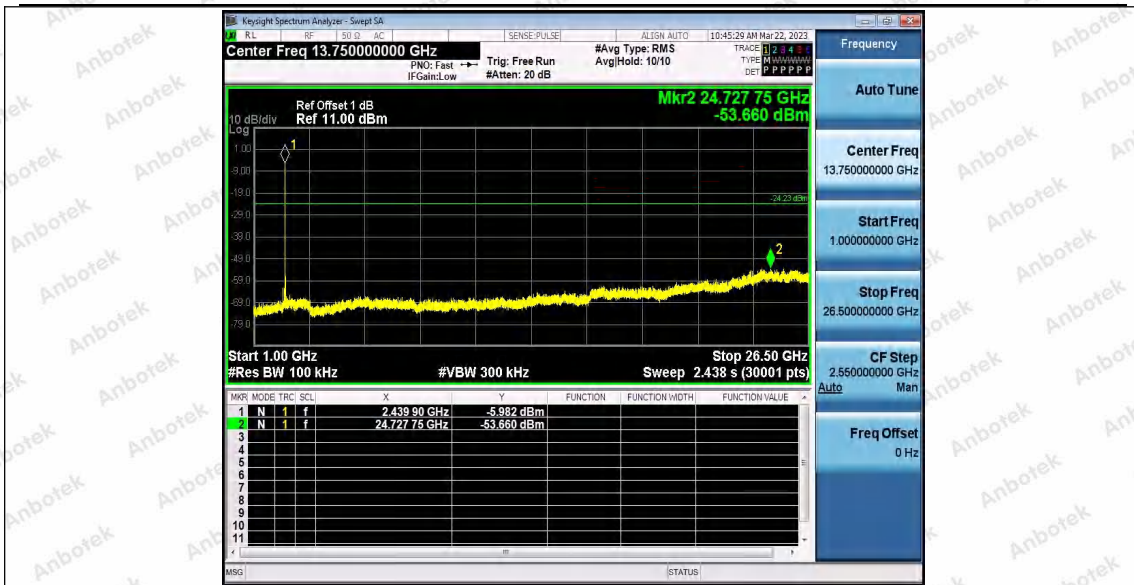
BLE_2M_Ant1_2440_1000~26500

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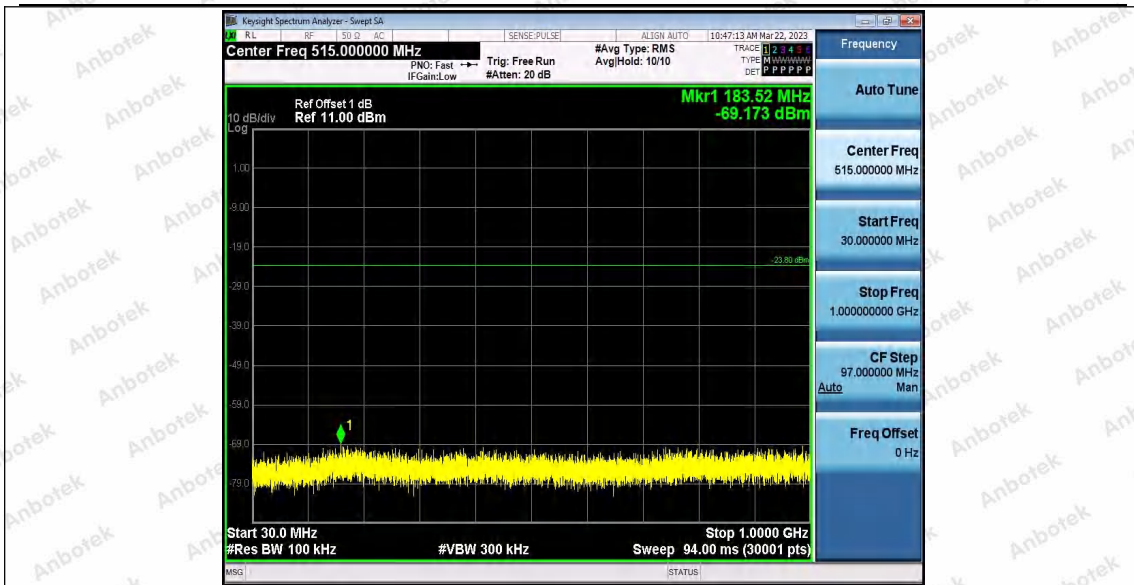
BLE_2M_Ant1_2480_30~1000

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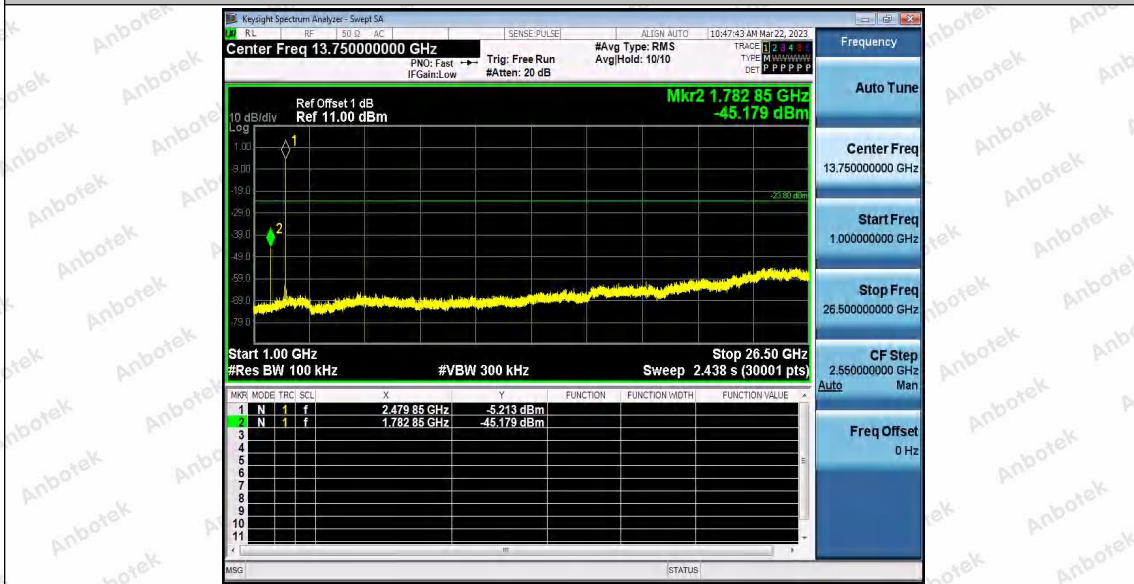
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BLE_2M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

Test Mode	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	1.88	56.38	2.49
		2440	1.06	1.87	56.68	2.47
		2480	1.06	1.88	56.38	2.49

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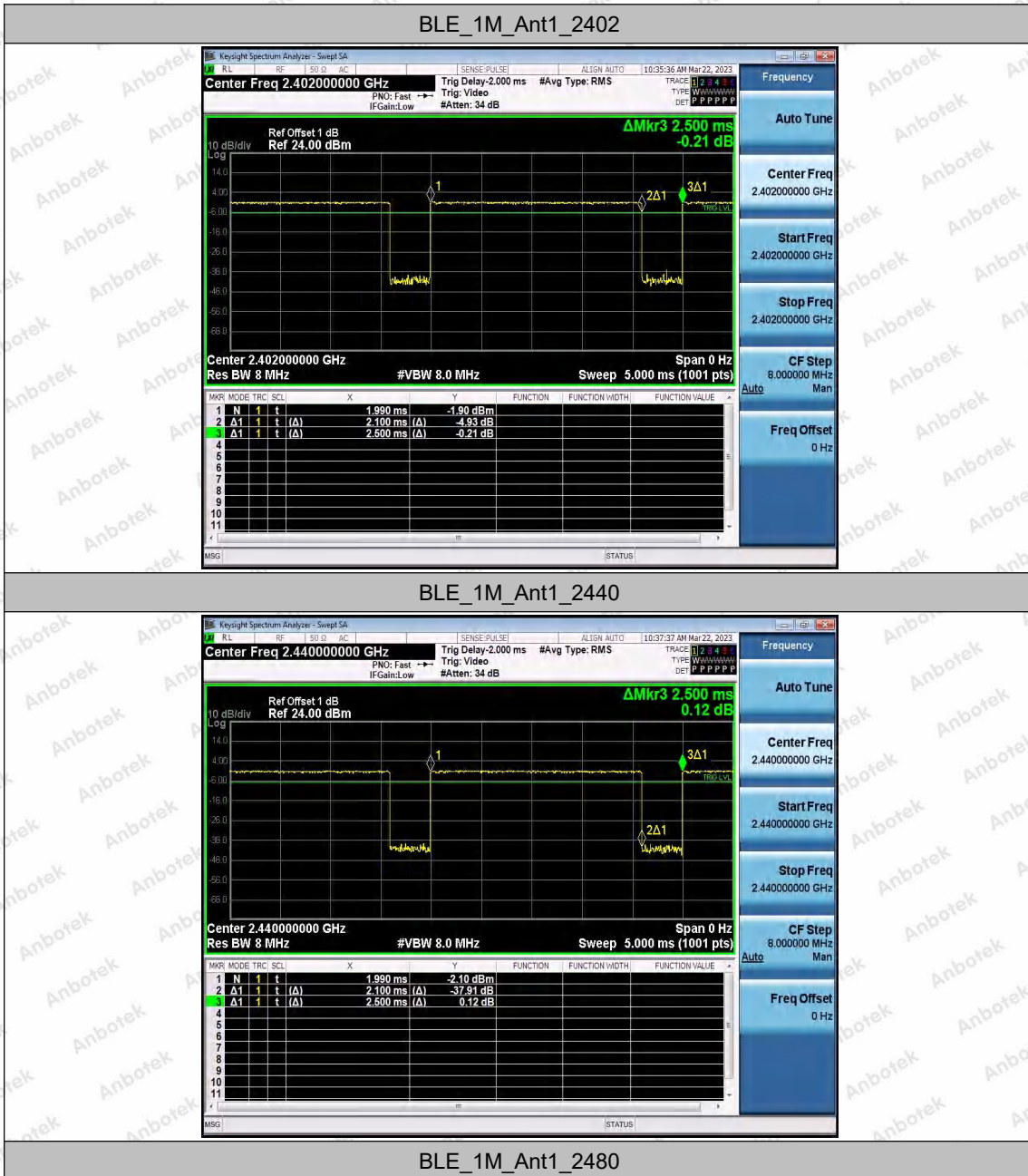
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Test Graphs



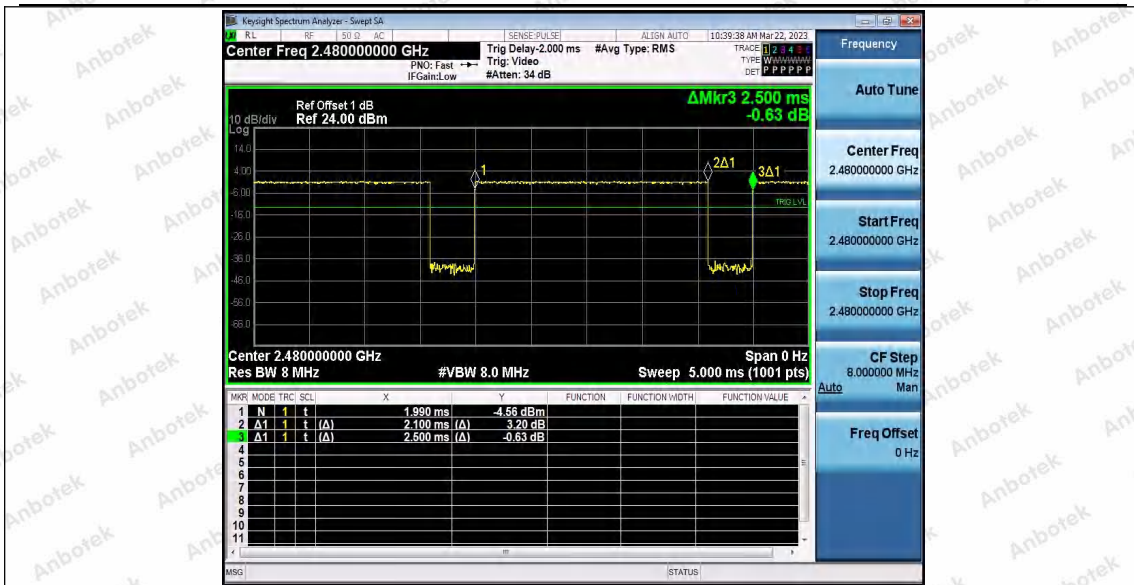
BLE_1M_Ant1_2480

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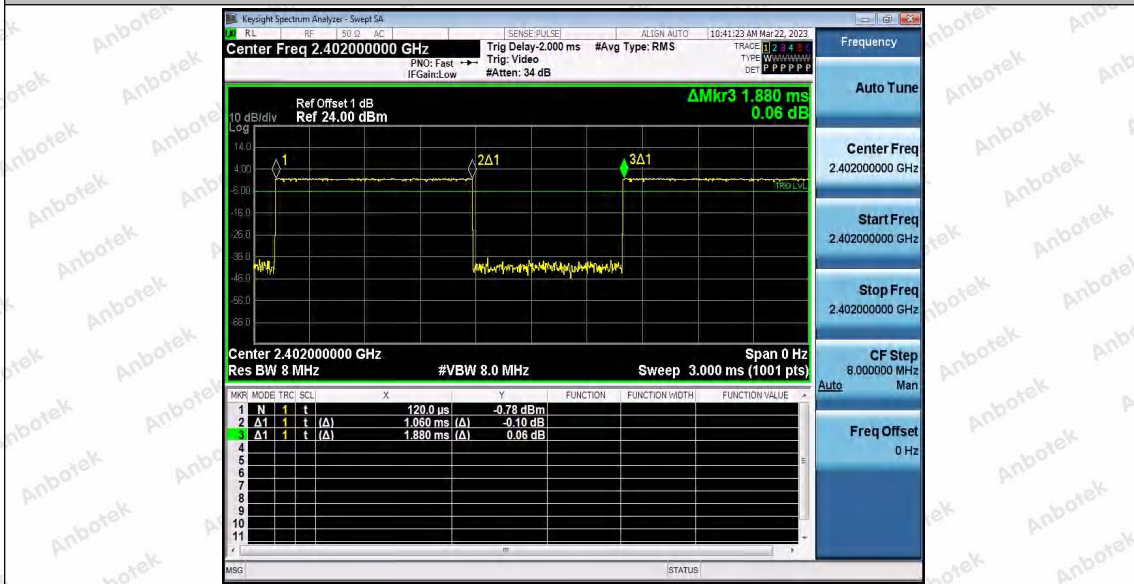
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BLE_2M_Ant1_2402



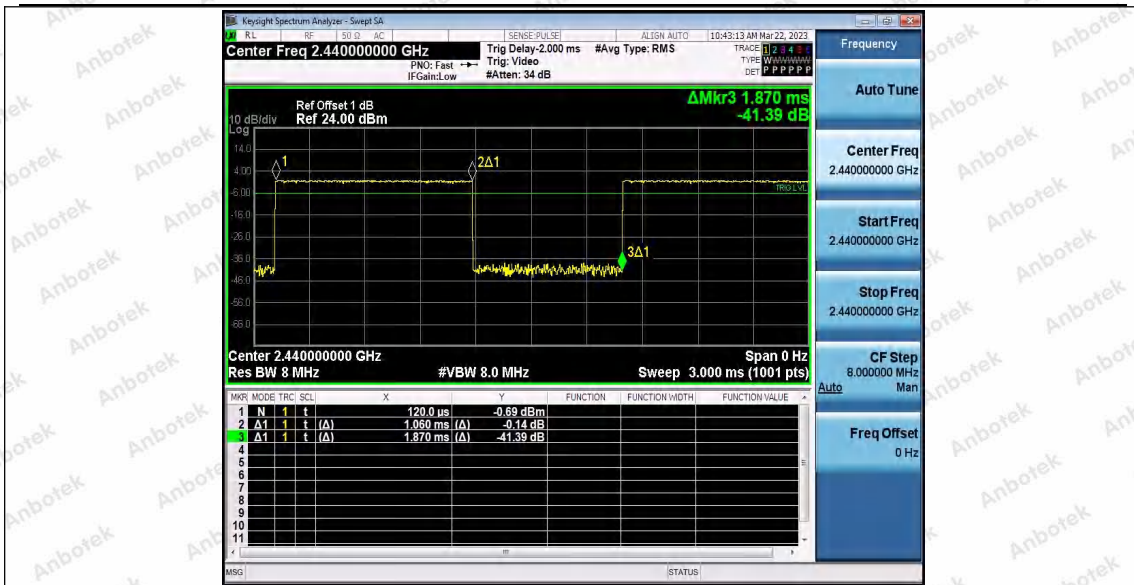
BLE_2M_Ant1_2440

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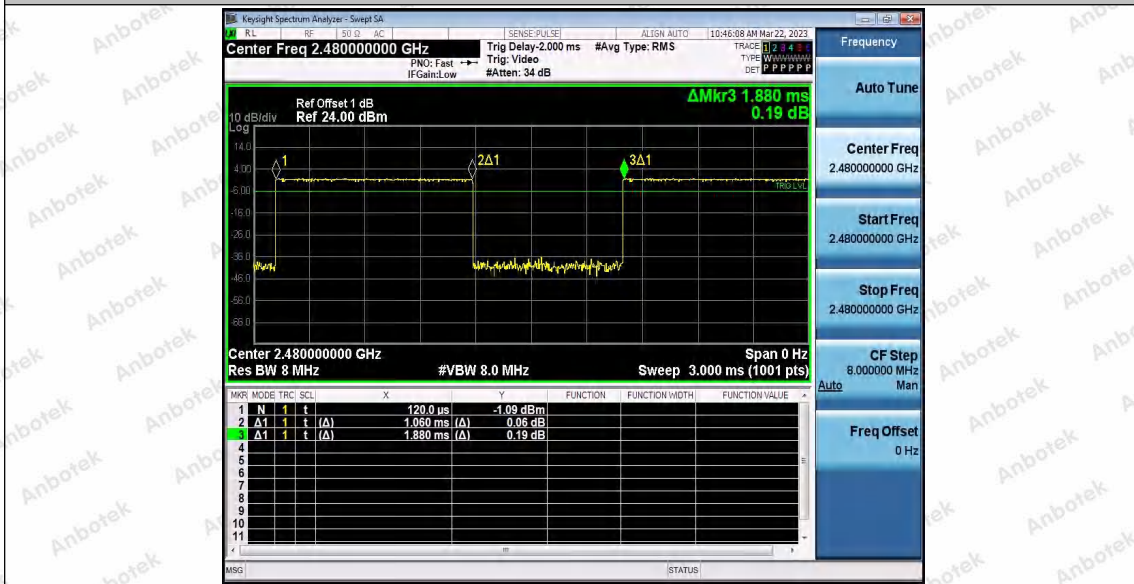
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BLE_2M_Ant1_2480



---End---

