

Appendix Test Data

Report No.:	18220WC40004401	Test Sample No.:	1-2-2
Start Test Date:	2024.1.12	Finish Test Date:	2024.1.17
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	45%
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	1.256	2401.500	2402.756	0.5	PASS
		2440	1.228	2439.568	2440.796	0.5	PASS
		2480	1.308	2479.452	2480.760	0.5	PASS
BLE_2M	Ant1	2402	1.208	2401.568	2402.776	0.5	PASS
		2440	1.336	2439.468	2440.804	0.5	PASS
		2480	1.264	2479.532	2480.796	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

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	2.1126	2401.0703	2403.1829
		2440	2.1056	2439.0722	2441.1778
		2480	2.1068	2479.0680	2481.1748
BLE_2M	Ant1	2402	2.0811	2401.0645	2403.1456
		2440	2.0696	2439.0909	2441.1605
		2480	2.0663	2479.0912	2481.1575



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





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	-1.88	≤30	PASS
		2440	-3.18	≤30	PASS
		2480	-4.72	≤30	PASS
BLE_2M	Ant1	2402	-2.78	≤30	PASS
		2440	-3.15	≤30	PASS
		2480	-3.28	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

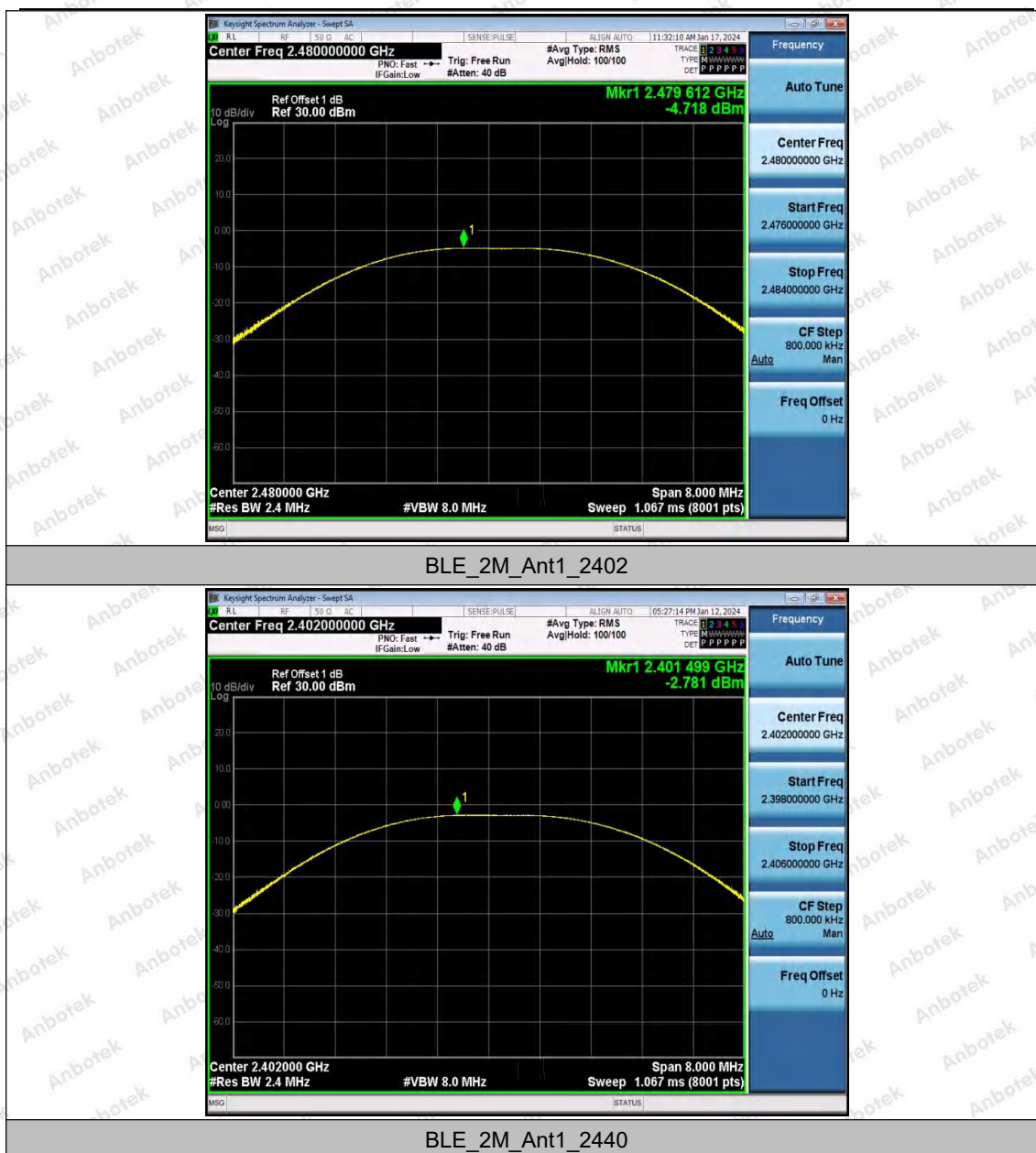
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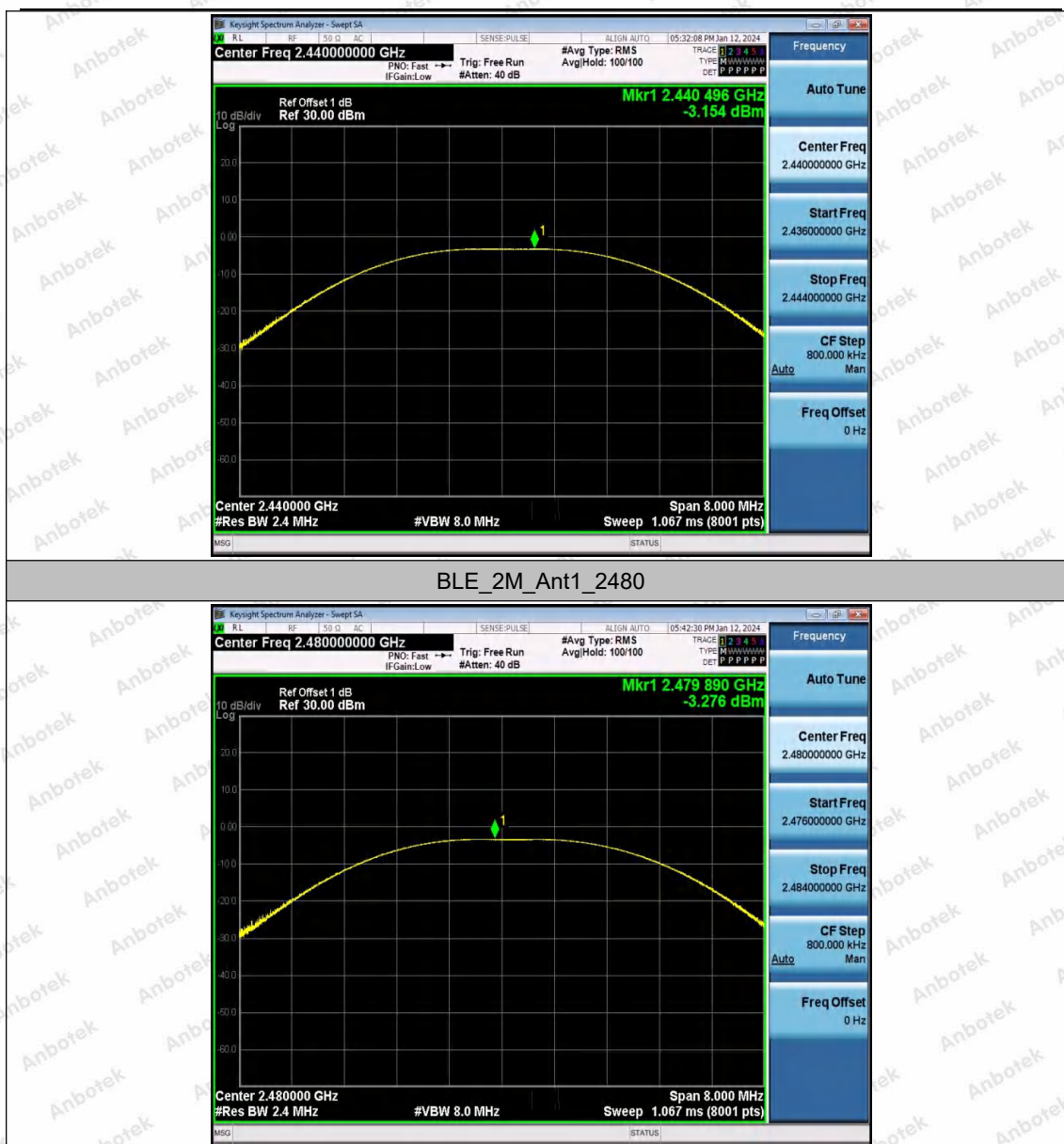
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.99	≤8.00	PASS
		2440	-19.36	≤8.00	PASS
		2480	-20.21	≤8.00	PASS
BLE_2M	Ant1	2402	-18.42	≤8.00	PASS
		2440	-17.61	≤8.00	PASS
		2480	-19.39	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

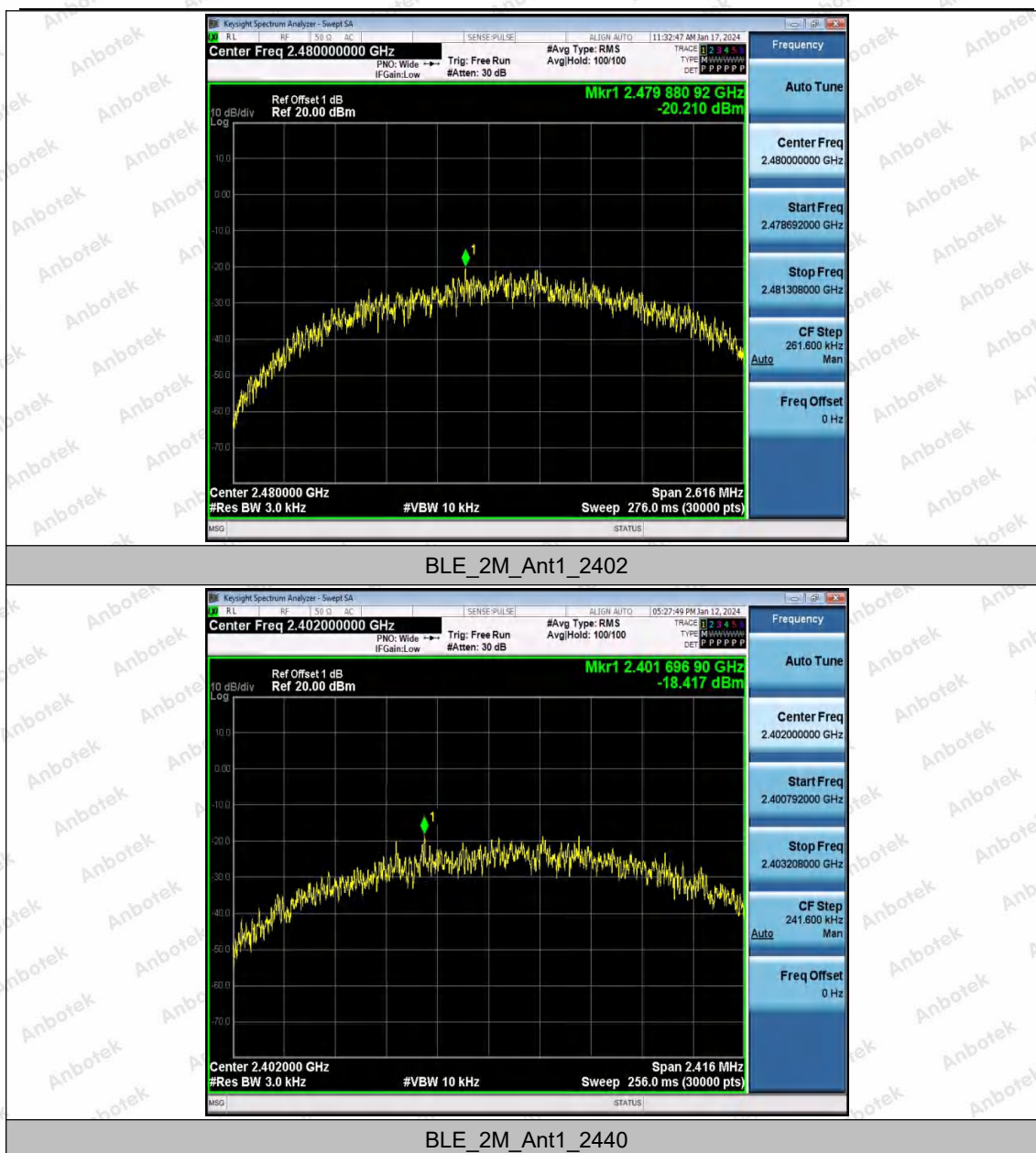
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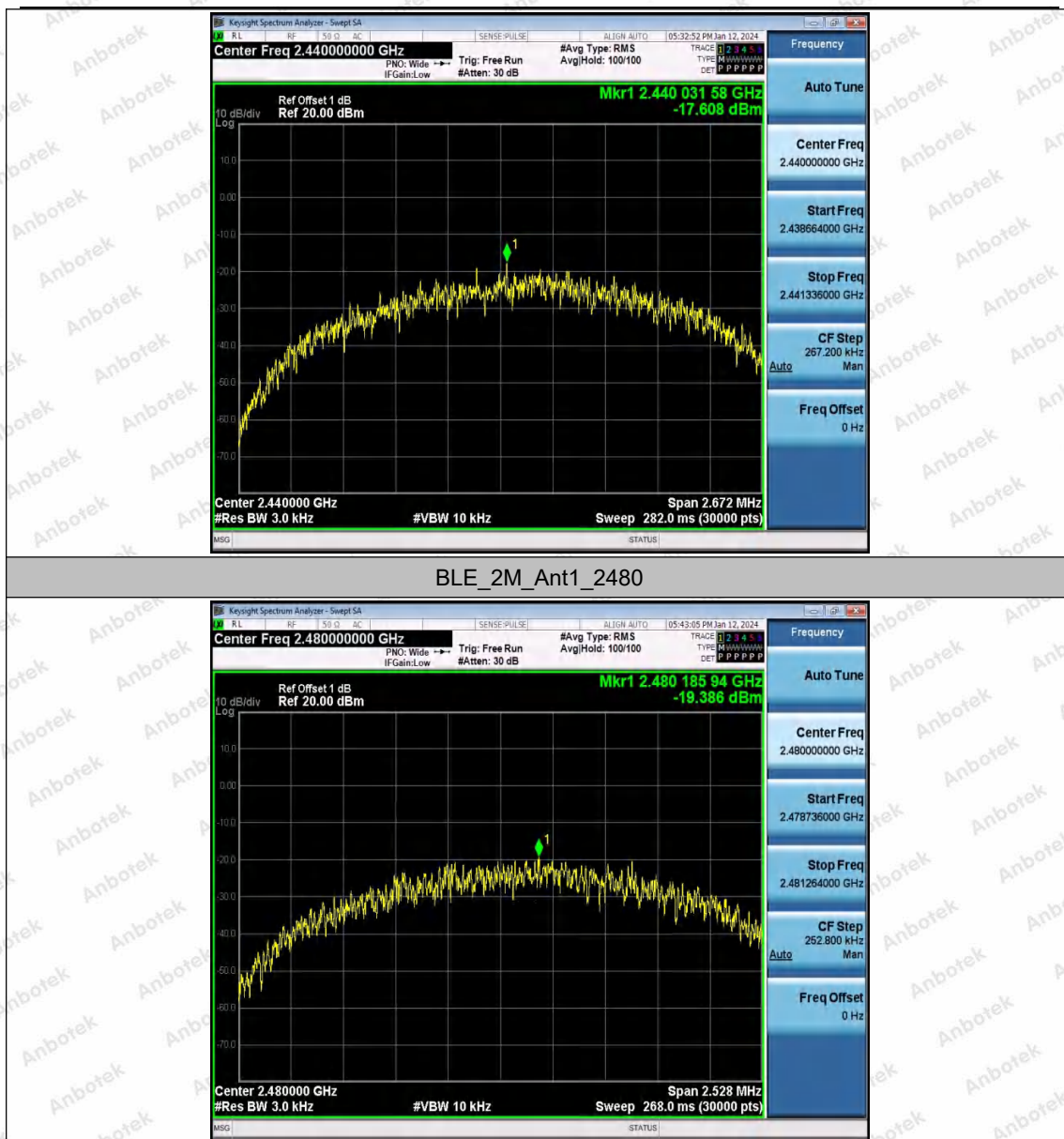
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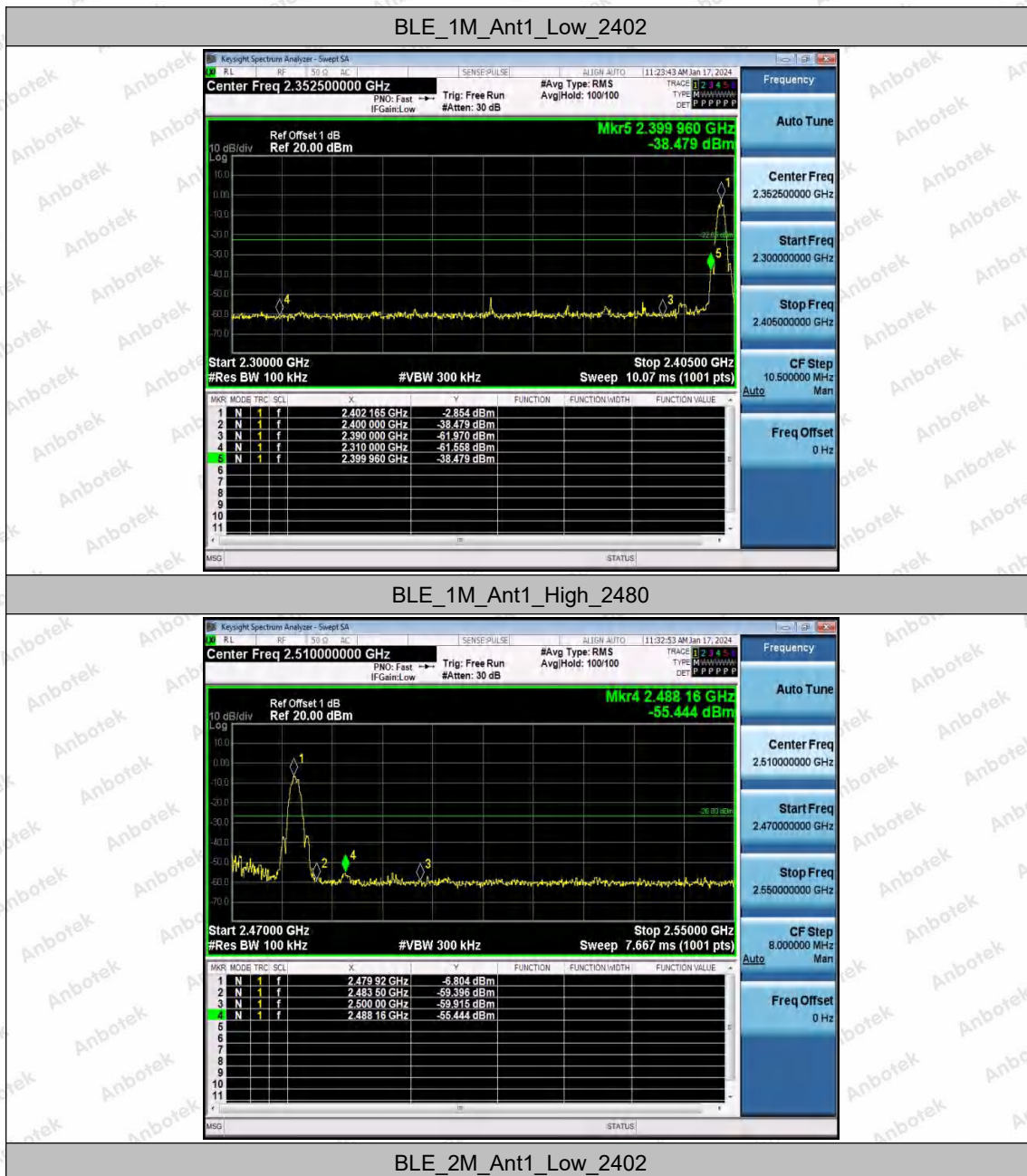
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.85	-38.48	≤-22.85	PASS
		High	2480	-6.80	-55.44	≤-26.8	PASS
BLE_2M	Ant1	Low	2402	-5.70	-40.4	≤-25.7	PASS
		High	2480	-5.37	-53.46	≤-25.37	PASS



Test Graphs



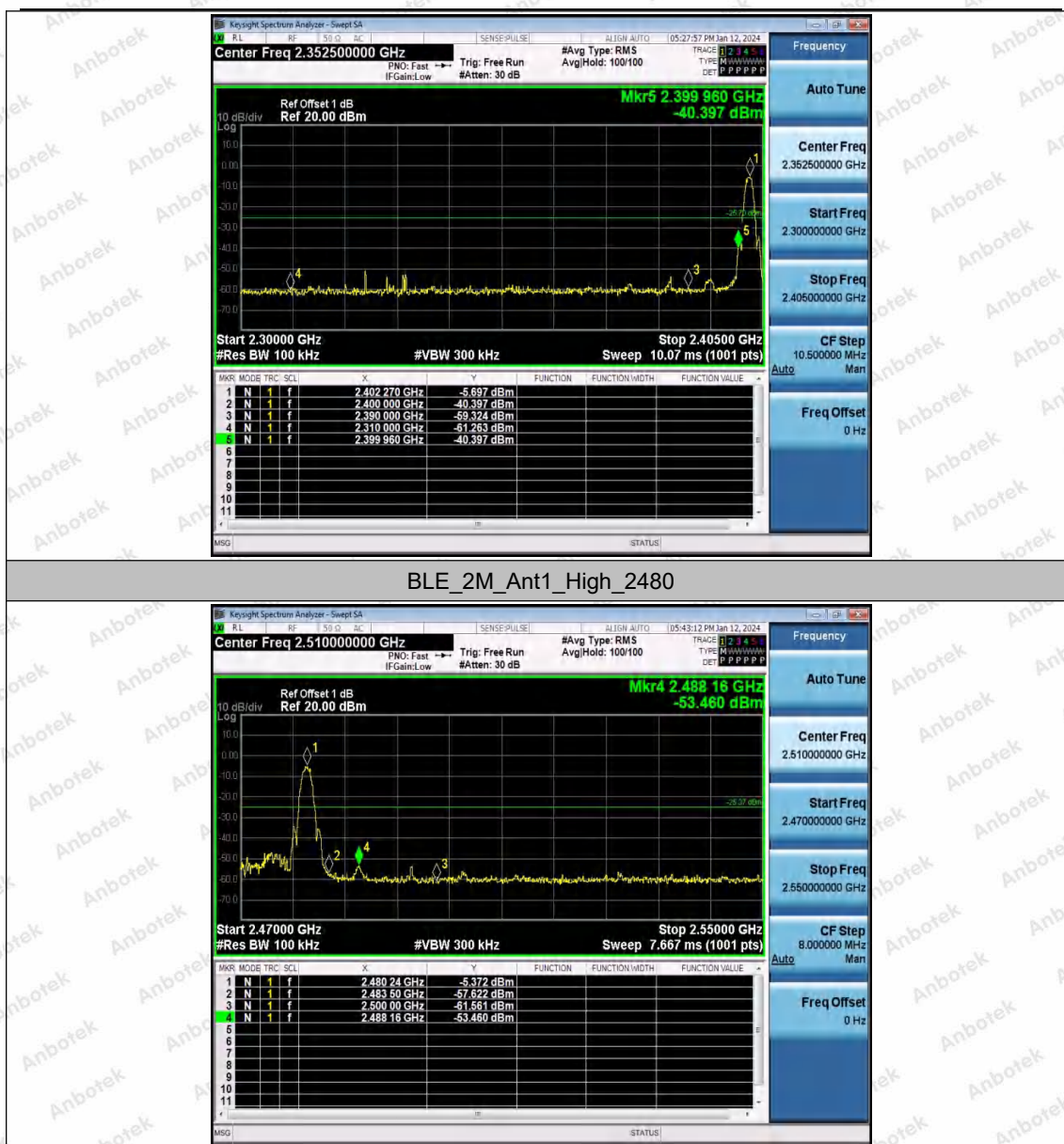
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-68.89	≤-24.89	PASS
			1000~26500	-4.89	-38.02	≤-24.89	PASS
		2440	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-69.2	≤-26	PASS
			1000~26500	-6.00	-40.77	≤-26	PASS
		2480	Reference	-7.89	-7.89	---	PASS
			30~1000	-7.89	-68.88	≤-27.89	PASS
			1000~26500	-7.89	-43.04	≤-27.89	PASS
BLE_2M	Ant1	2402	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-38.05	≤-25.69	PASS
			1000~26500	-5.69	-40.43	≤-25.69	PASS
		2440	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-35.87	≤-26.74	PASS
			1000~26500	-6.74	-40.98	≤-26.74	PASS
		2480	Reference	-5.65	-5.65	---	PASS
			30~1000	-5.65	-32.08	≤-25.65	PASS
			1000~26500	-5.65	-43.84	≤-25.65	PASS

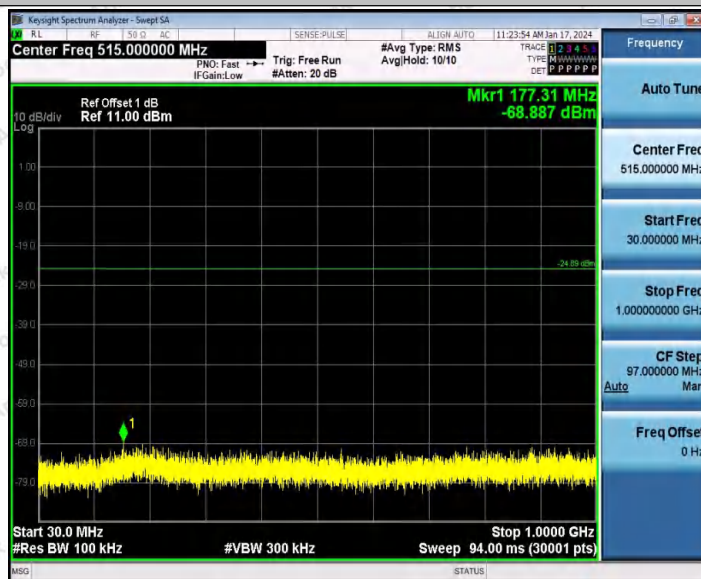


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

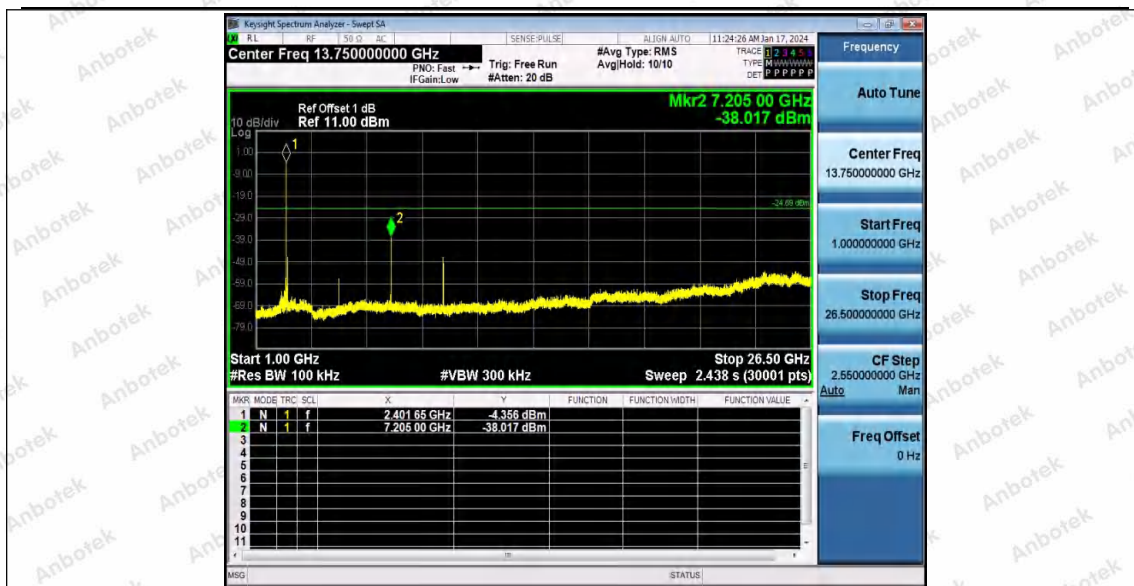
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

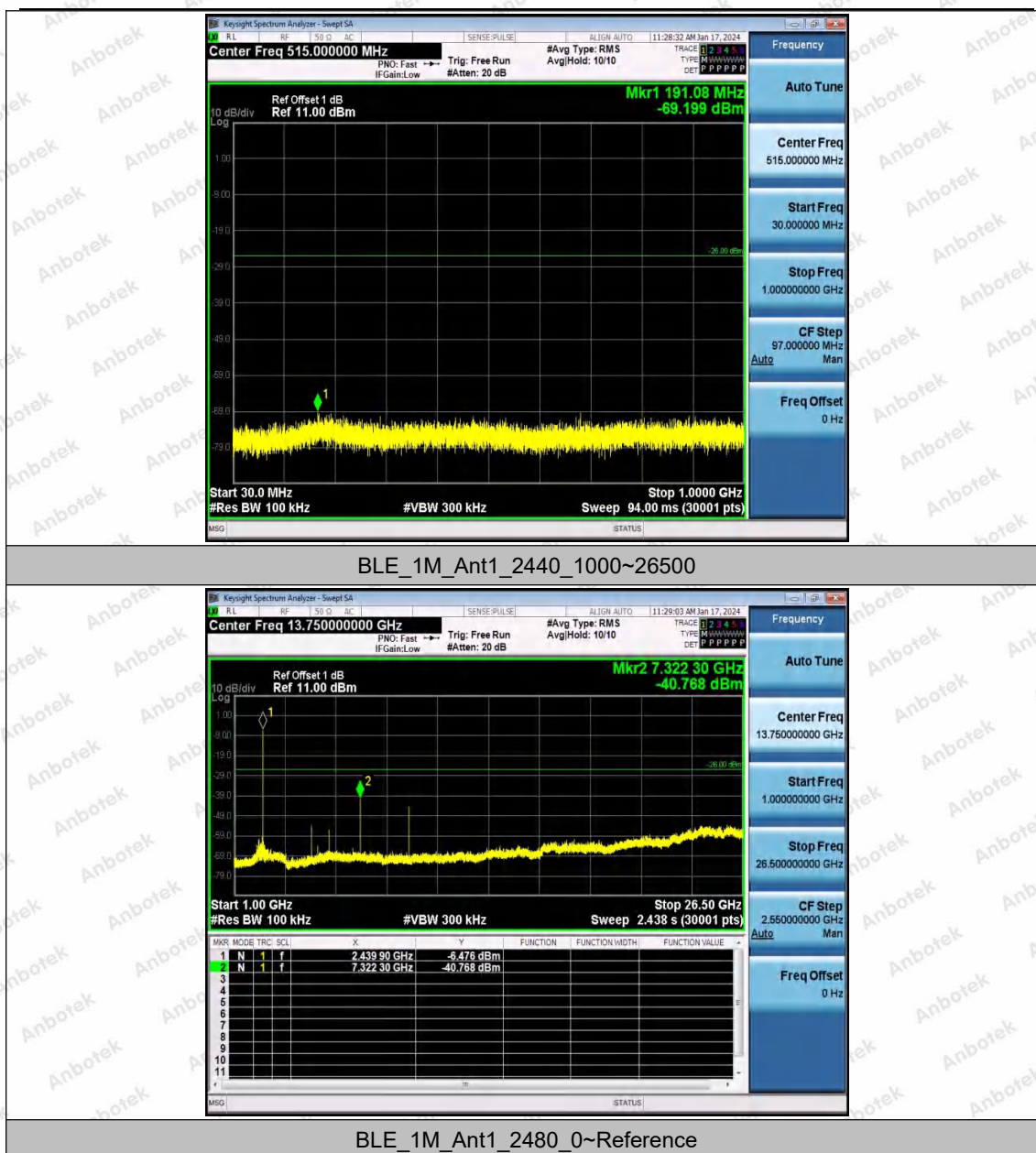
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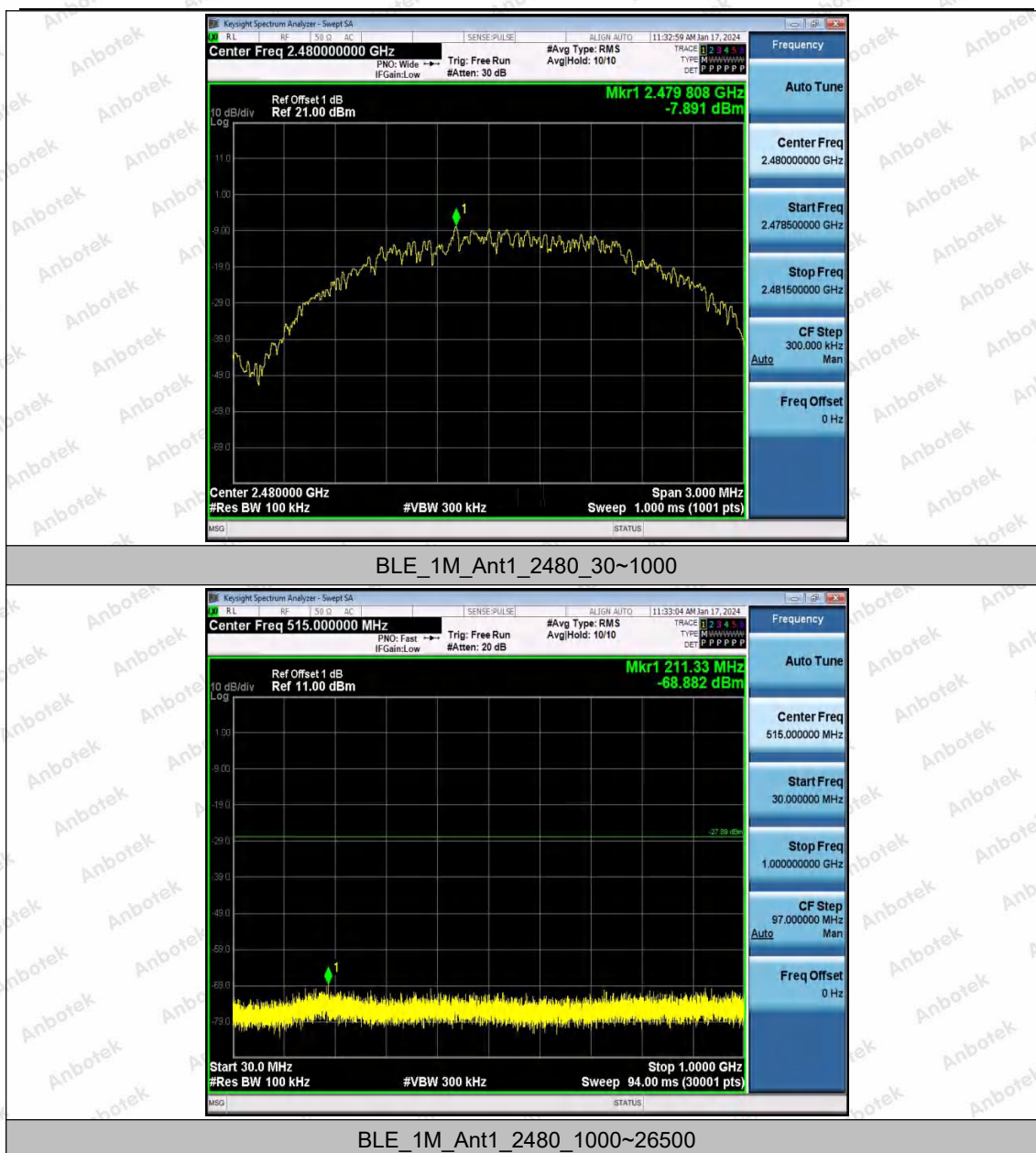
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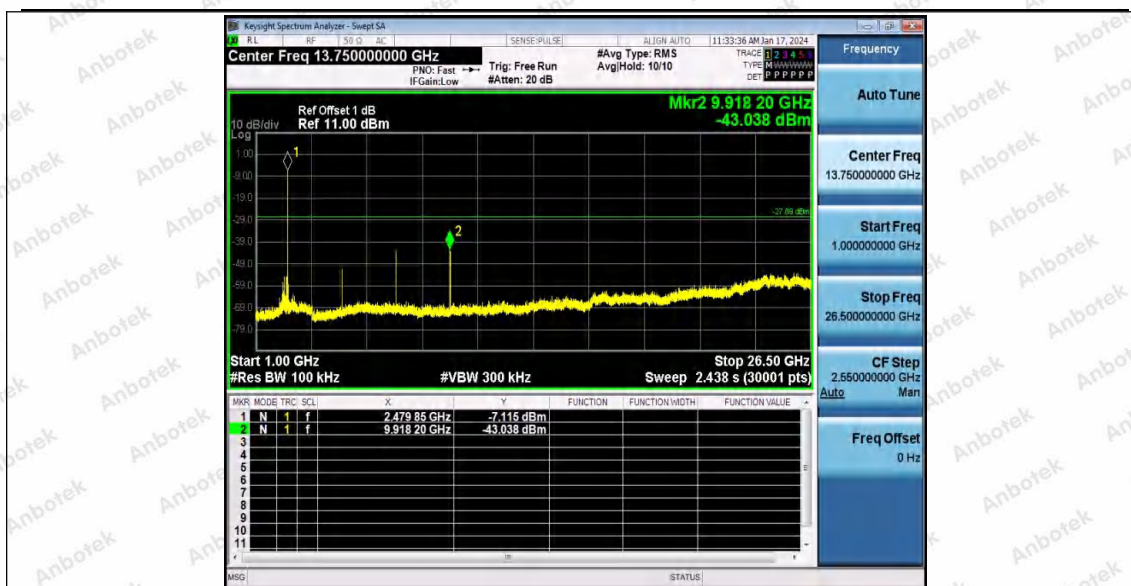
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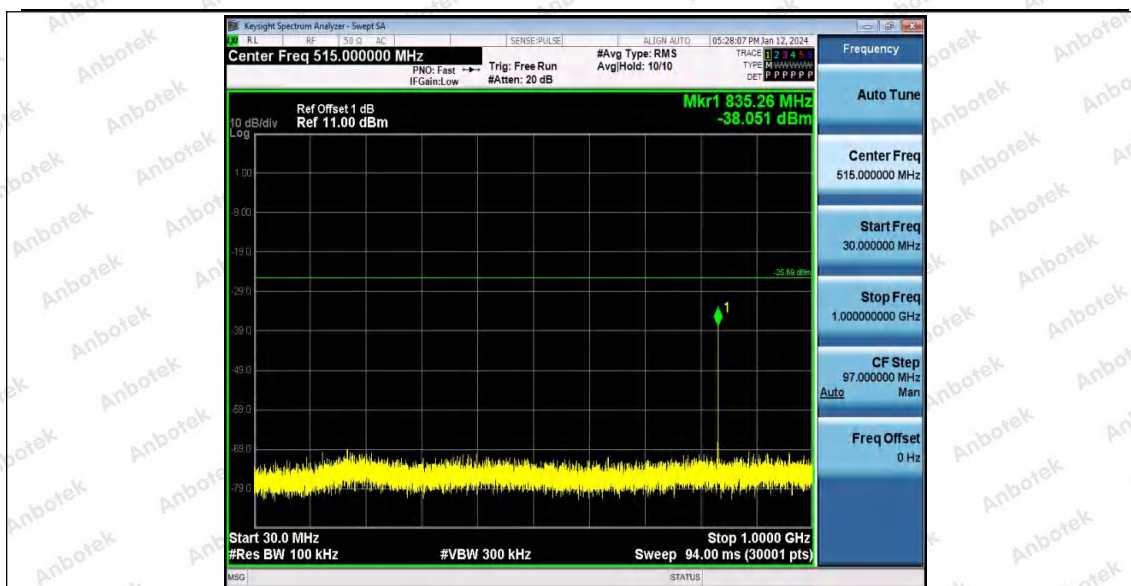


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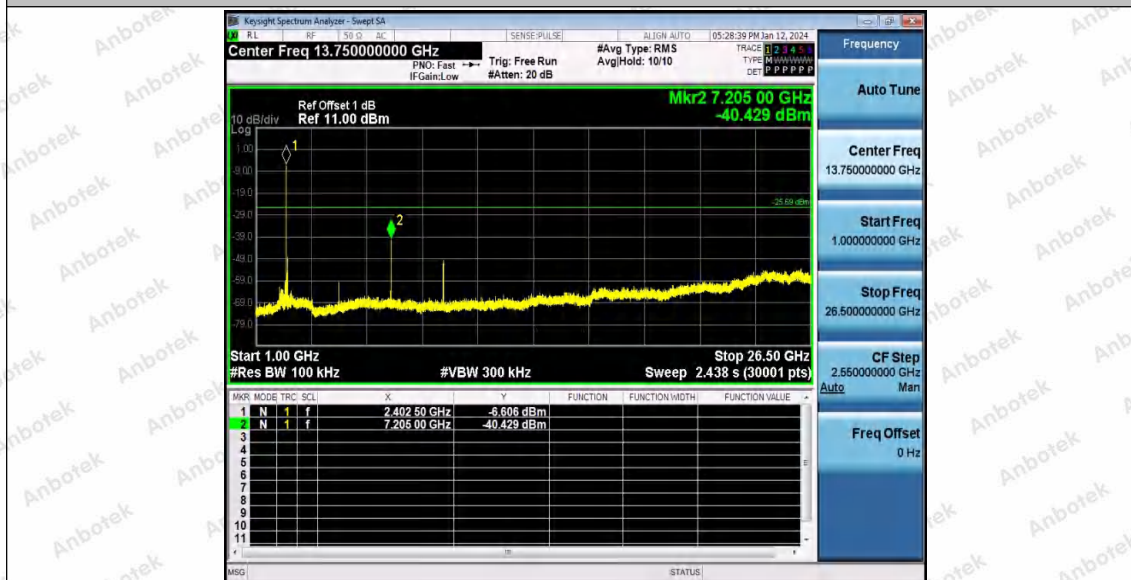


BLE_2M_Ant1_2402_30~1000



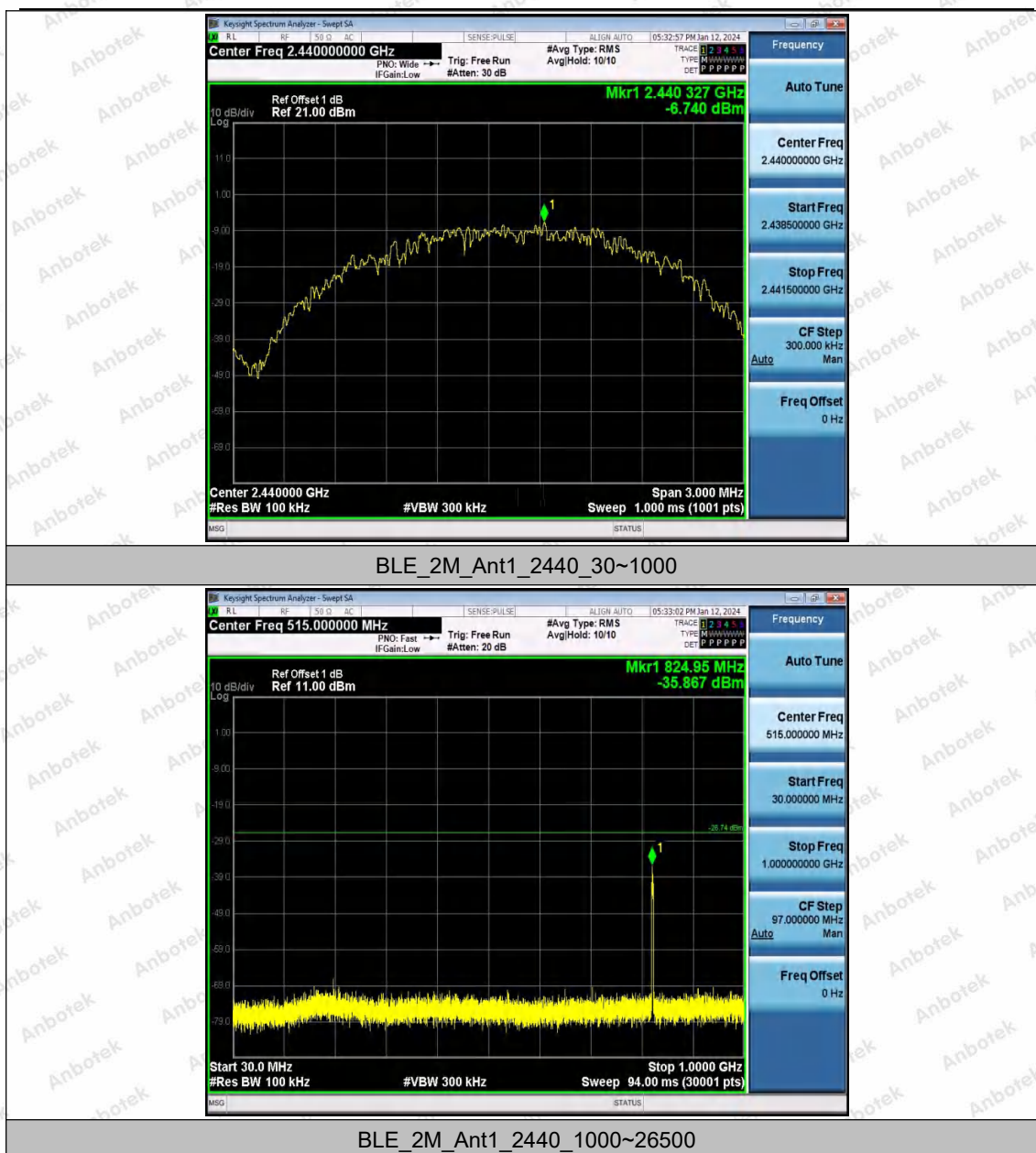


BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



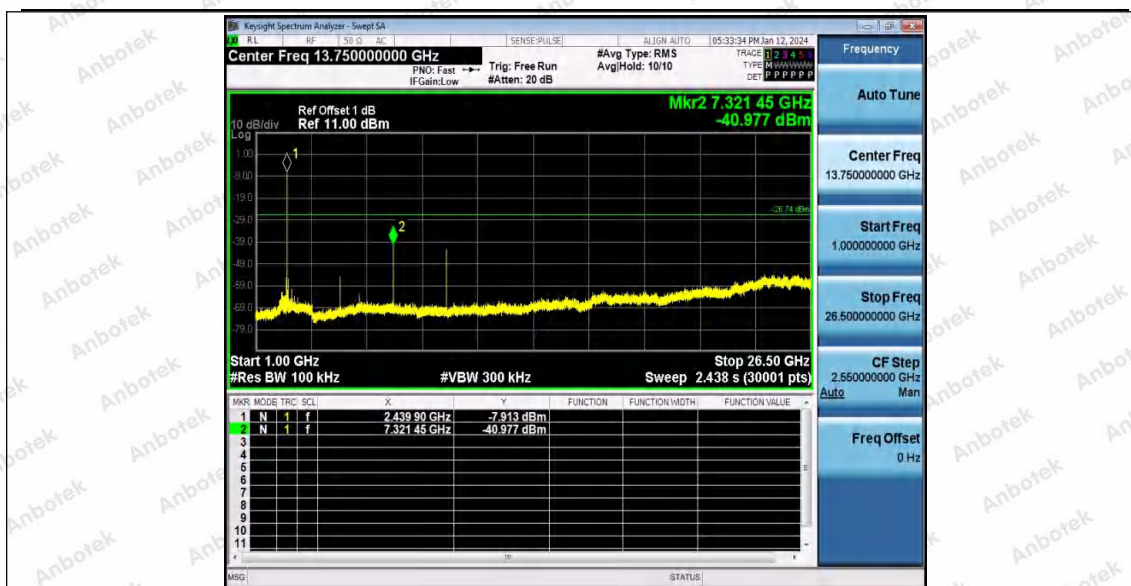
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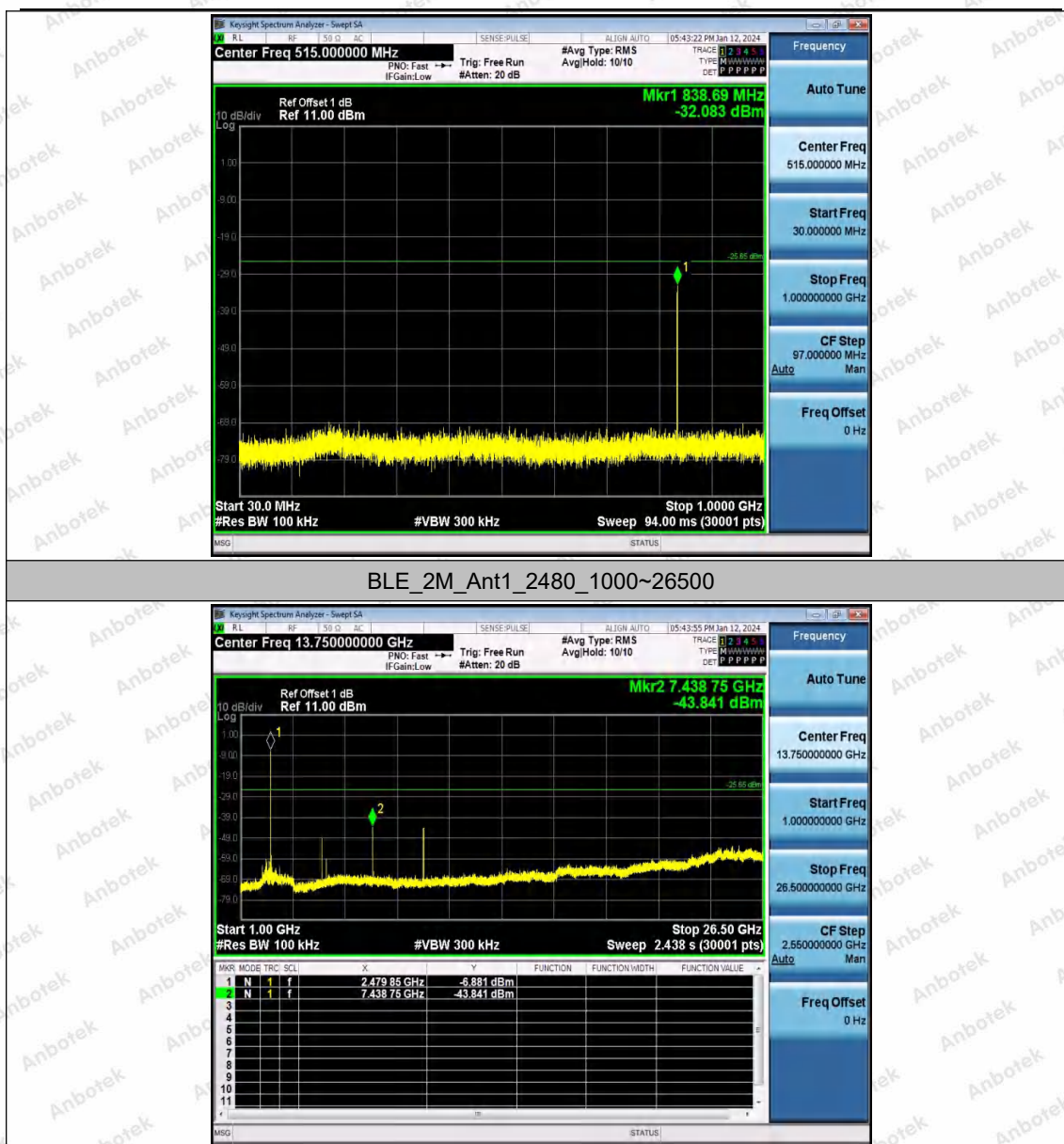


BLE_2M_Ant1_2480_0~Reference



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	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00
BLE_2M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

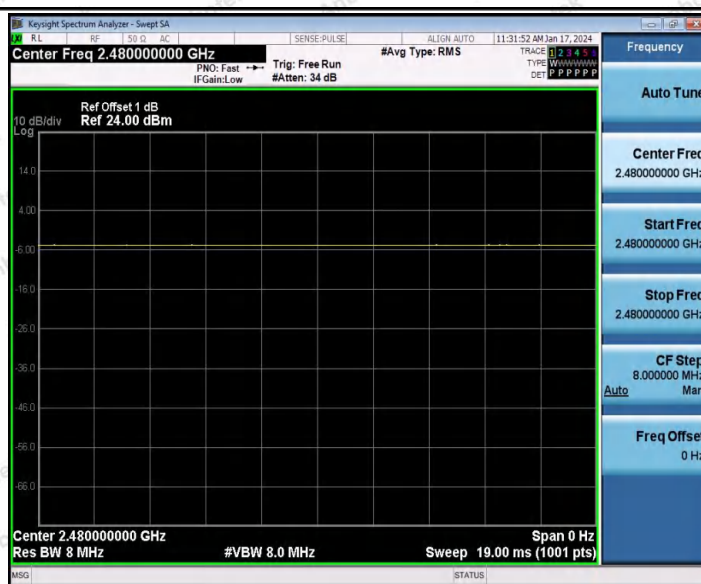
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

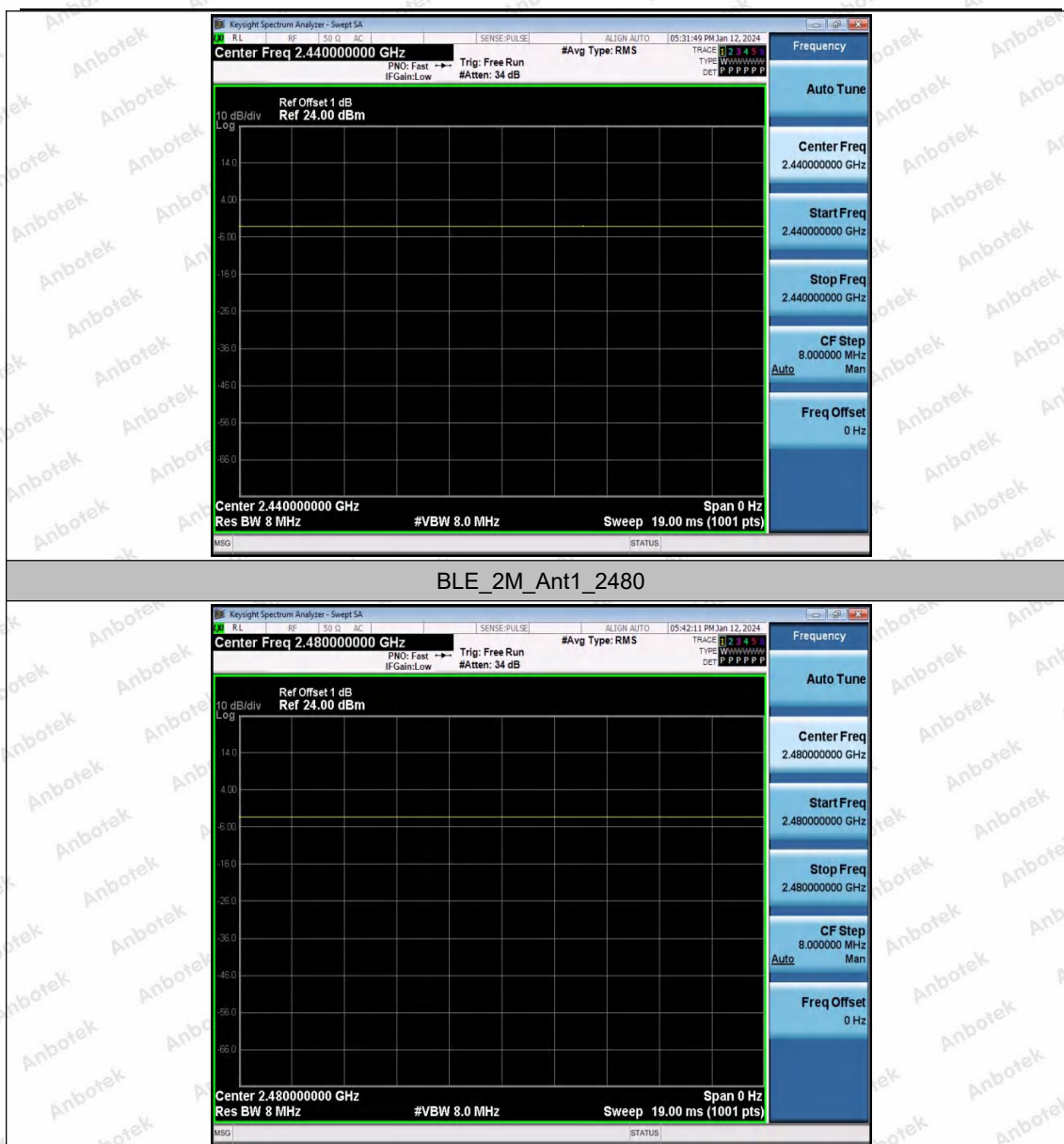
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