

Appendix Test Data(module 2)

Report No.:	1812C40028712501	Test Sample No.:	1-2-2
Start Test Date:	2024.08.28	Finish Test Date:	2024.08.28
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8℃	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.664	2402.380	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.664	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.680	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.268	2401.400	2402.668	0.5	PASS
BLE_2M	Ant1	2440	1.160	2439.408	2440.568	0.5	PASS
BLE_2M	Ant1	2480	1.128	2479.460	2480.588	0.5	PASS



Test Graphs



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0927	2401.4761	2402.5688	---	---
BLE_1M	Ant1	2440	1.0990	2439.4749	2440.5739	---	---
BLE_1M	Ant1	2480	1.0960	2479.4780	2480.5740	---	---
BLE_2M	Ant1	2402	2.0664	2400.9895	2403.0559	---	---
BLE_2M	Ant1	2440	2.0760	2438.9745	2441.0505	---	---
BLE_2M	Ant1	2480	2.0935	2478.9767	2481.0702	---	---

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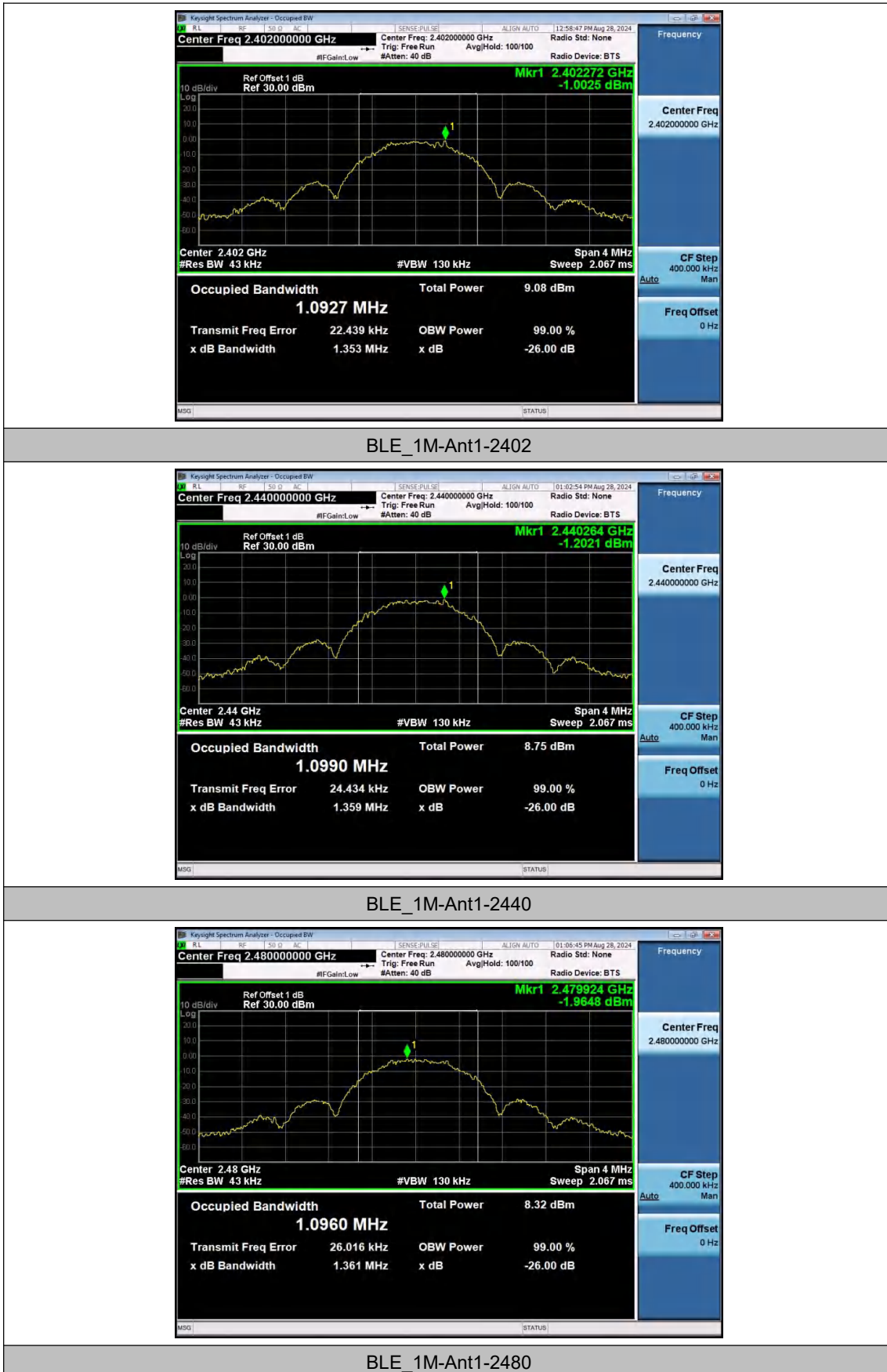
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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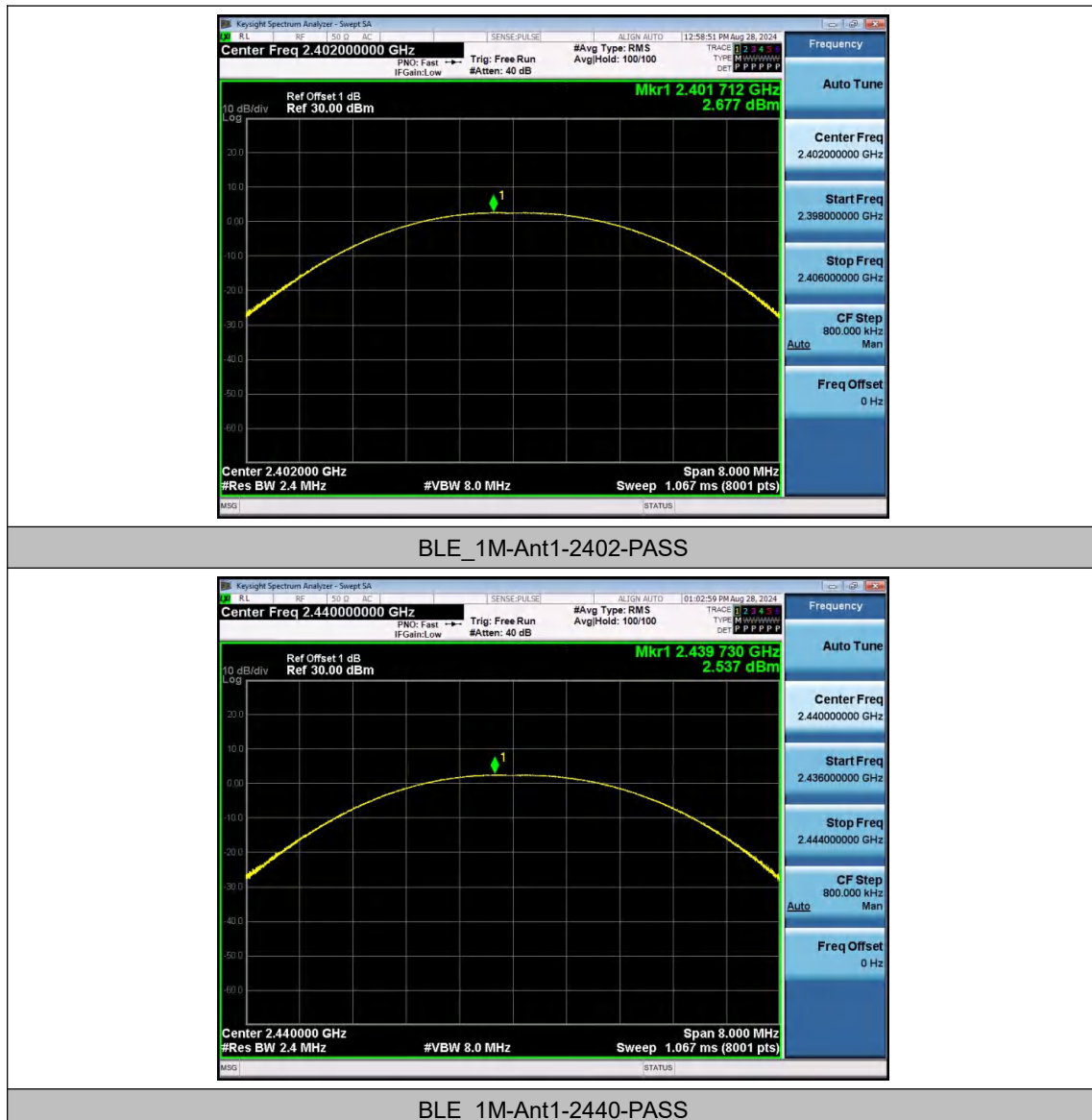


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.68	≤30	PASS
BLE_1M	Ant1	2440	2.54	≤30	PASS
BLE_1M	Ant1	2480	2.08	≤30	PASS
BLE_2M	Ant1	2402	2.86	≤30	PASS
BLE_2M	Ant1	2440	2.56	≤30	PASS
BLE_2M	Ant1	2480	2.15	≤30	PASS

Test Graphs Peak



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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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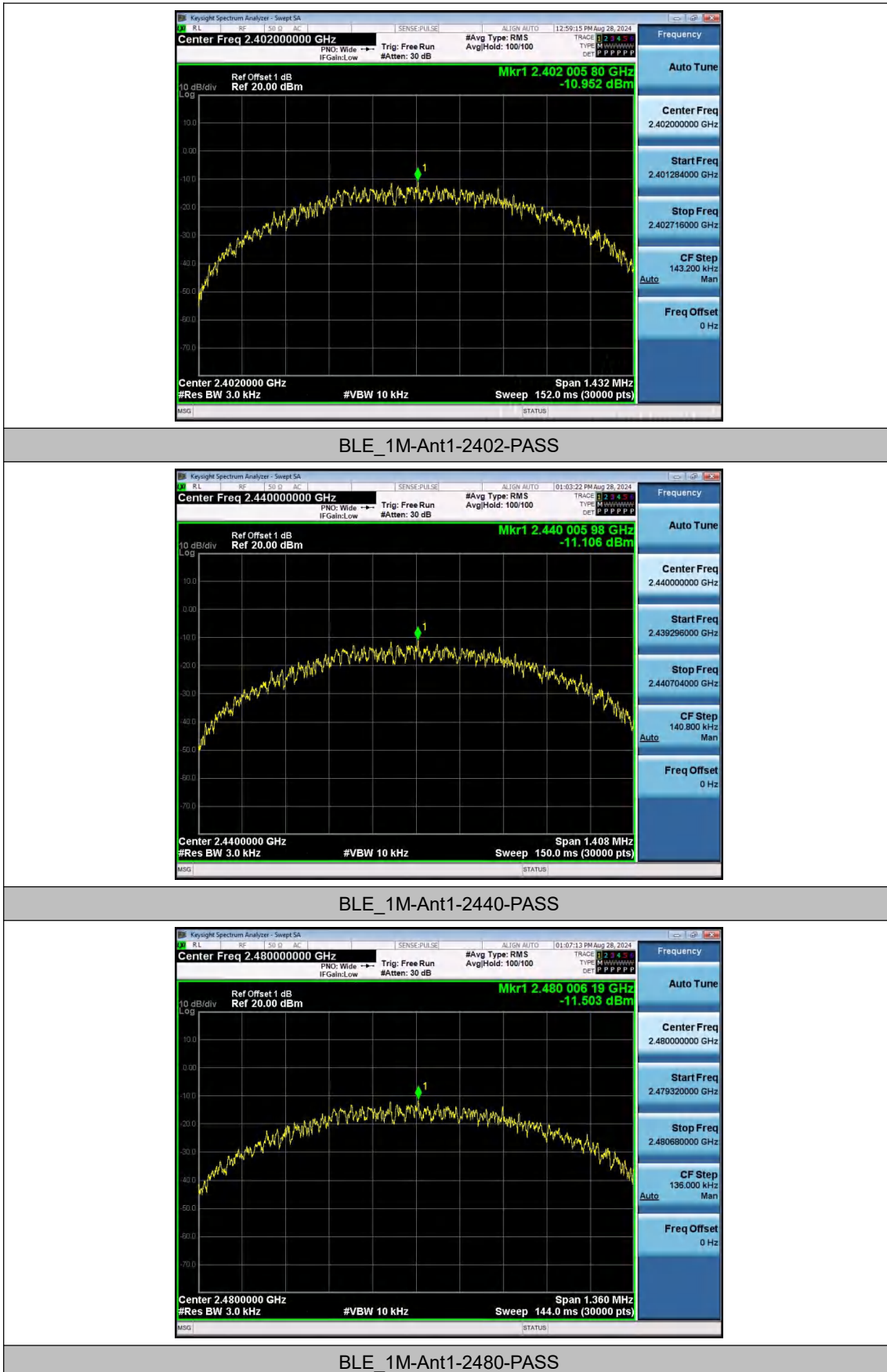
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.95	≤8.00	PASS
BLE_1M	Ant1	2440	-11.11	≤8.00	PASS
BLE_1M	Ant1	2480	-11.50	≤8.00	PASS
BLE_2M	Ant1	2402	-13.00	≤8.00	PASS
BLE_2M	Ant1	2440	-13.43	≤8.00	PASS
BLE_2M	Ant1	2480	-13.77	≤8.00	PASS



Test Graphs

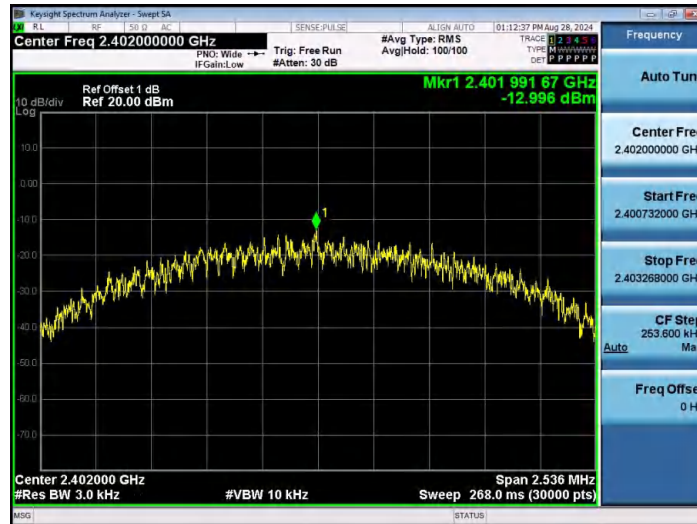


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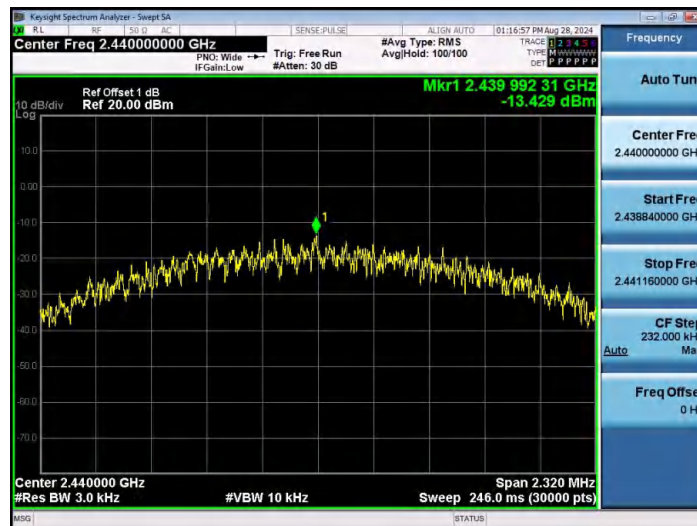
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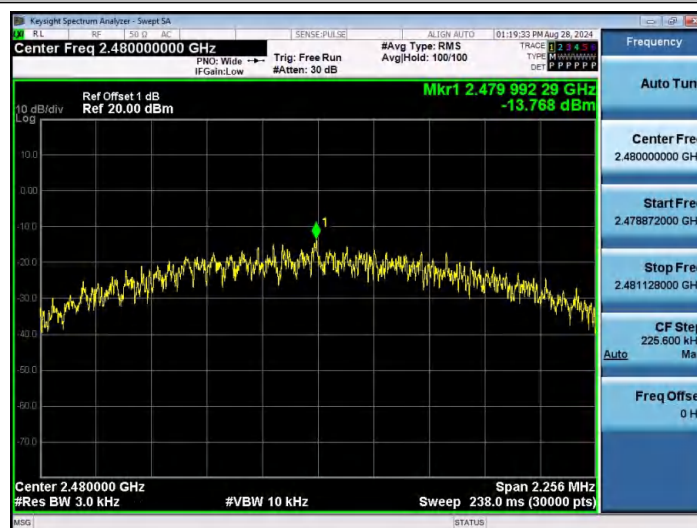




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



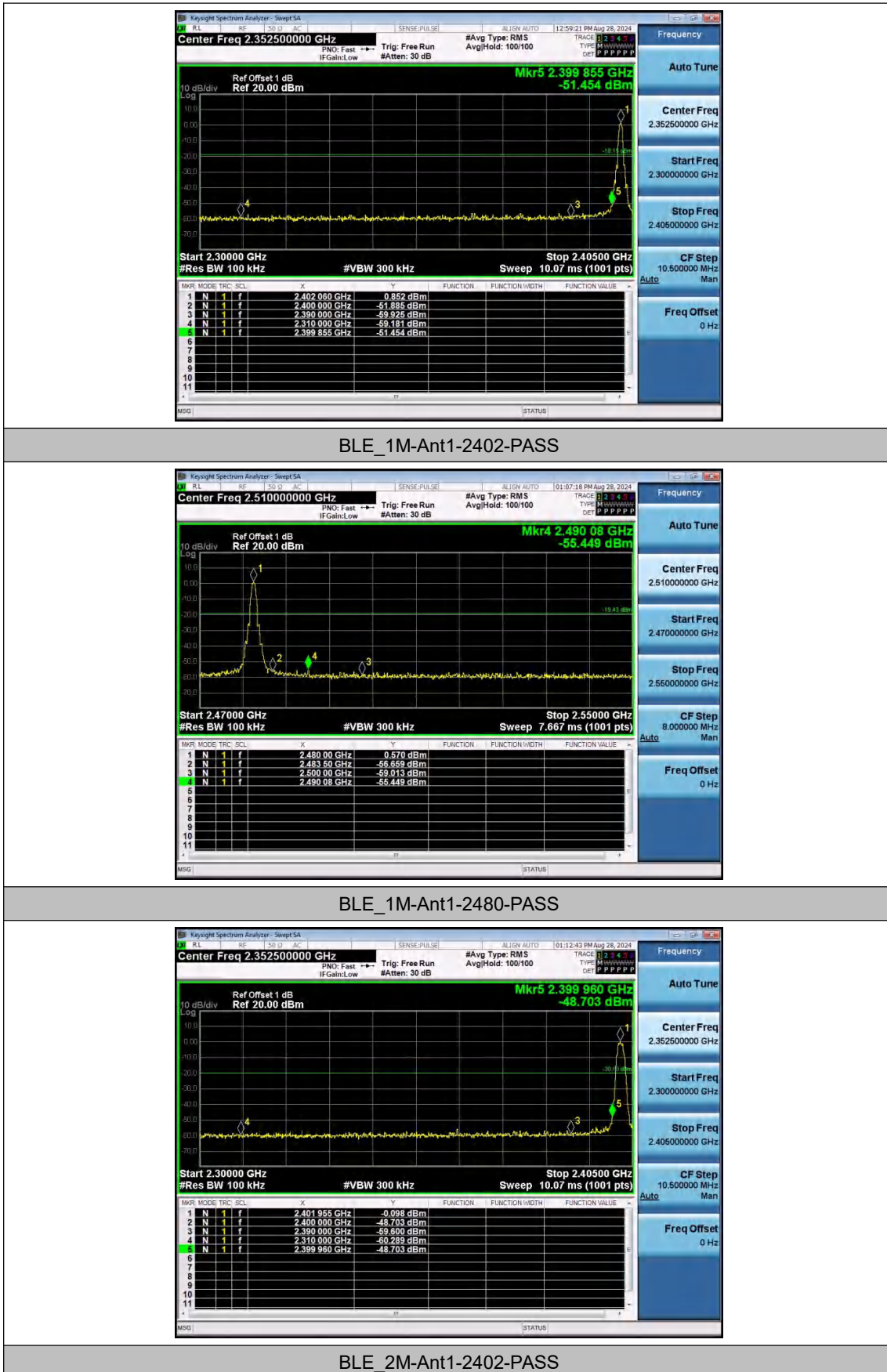
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.85	-51.45	≤-19.15	PASS
BLE_1M	Ant1	High	2480	0.57	-55.45	≤-19.43	PASS
BLE_2M	Ant1	Low	2402	-0.10	-48.7	≤-20.1	PASS
BLE_2M	Ant1	High	2480	-0.39	-55.29	≤-20.39	PASS



Test Graphs

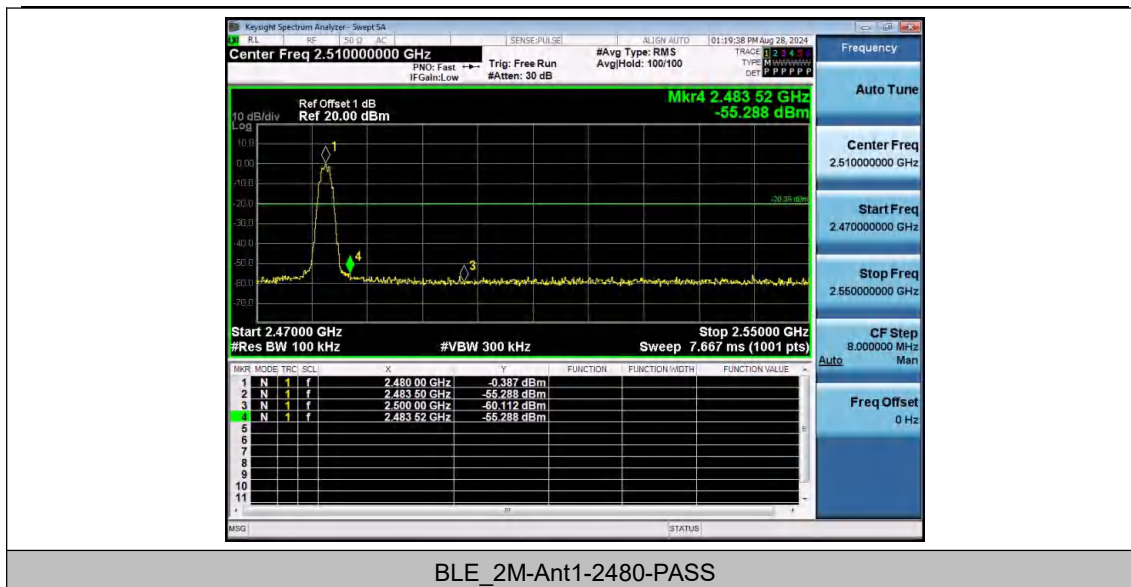


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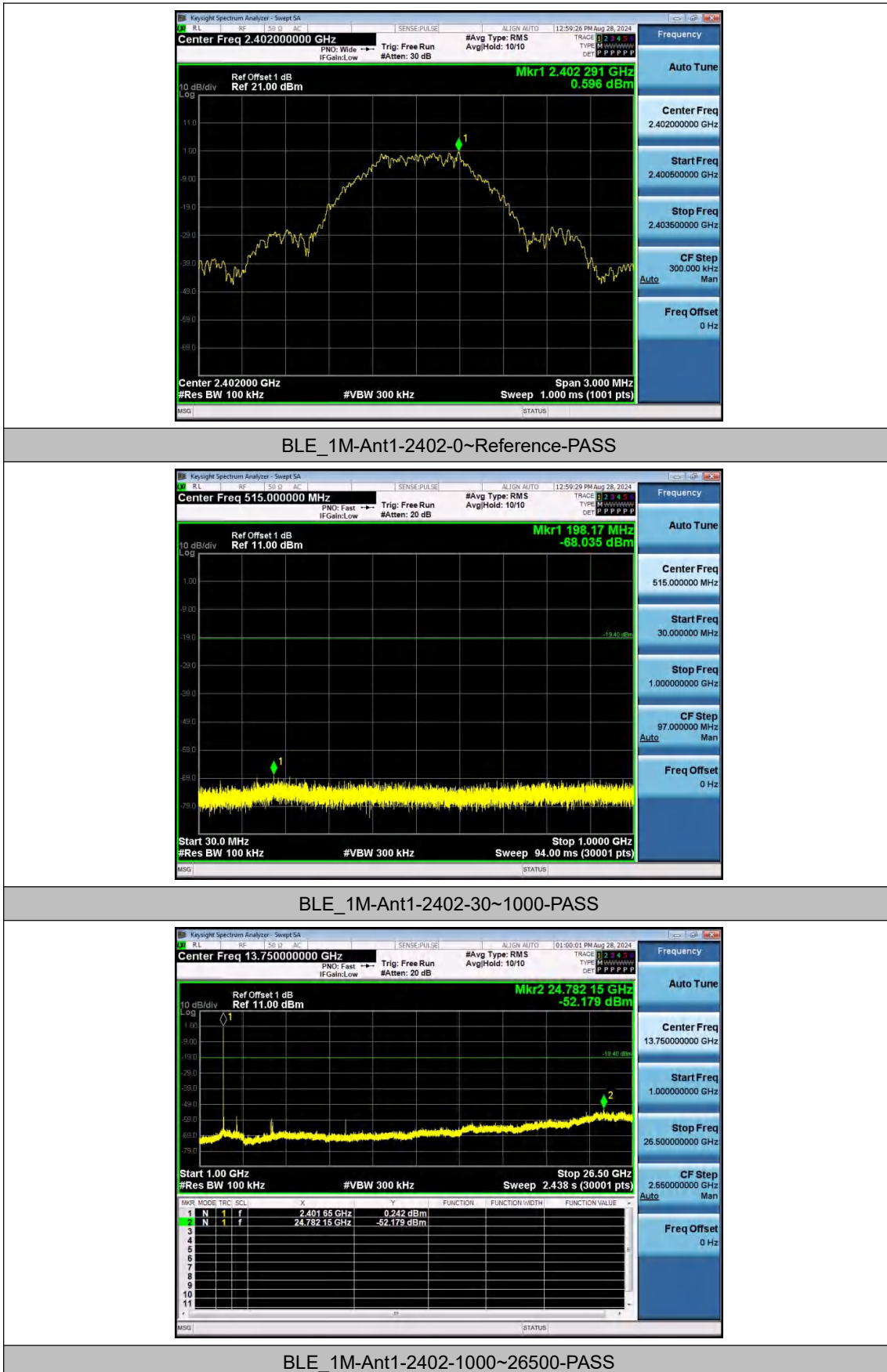
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.60	0.60	---	PASS
BLE_1M	Ant1	2402	30~1000	0.60	-68.04	≤-19.4	PASS
BLE_1M	Ant1	2402	1000~26500	0.60	-52.18	≤-19.4	PASS
BLE_1M	Ant1	2440	0~Reference	0.45	0.45	---	PASS
BLE_1M	Ant1	2440	30~1000	0.45	-67.3	≤-19.55	PASS
BLE_1M	Ant1	2440	1000~26500	0.45	-53.19	≤-19.55	PASS
BLE_1M	Ant1	2480	0~Reference	0.08	0.08	---	PASS
BLE_1M	Ant1	2480	30~1000	0.08	-66.09	≤-19.92	PASS
BLE_1M	Ant1	2480	1000~26500	0.08	-53.43	≤-19.92	PASS
BLE_2M	Ant1	2402	0~Reference	-1.25	-1.25	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.25	-68.09	≤-21.25	PASS
BLE_2M	Ant1	2402	1000~26500	-1.25	-53.03	≤-21.25	PASS
BLE_2M	Ant1	2440	0~Reference	-1.98	-1.98	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.98	-67.82	≤-21.98	PASS
BLE_2M	Ant1	2440	1000~26500	-1.98	-53.22	≤-21.98	PASS
BLE_2M	Ant1	2480	0~Reference	0.08	0.08	---	PASS
BLE_2M	Ant1	2480	30~1000	0.08	-68.2	≤-19.92	PASS
BLE_2M	Ant1	2480	1000~26500	0.08	-53.09	≤-19.92	PASS



Test Graphs



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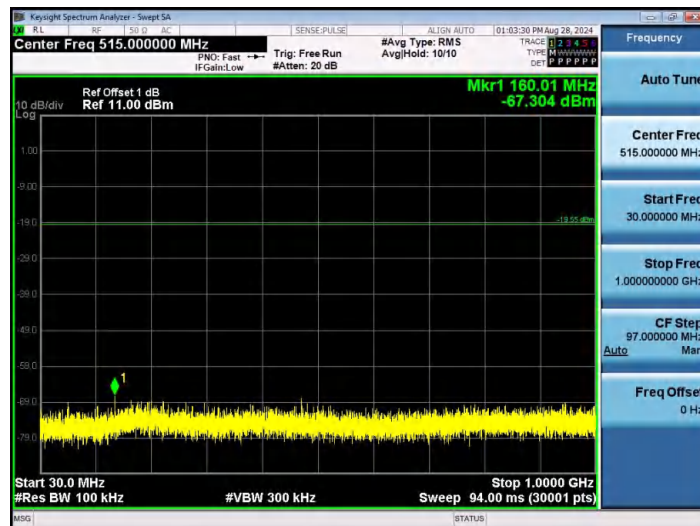
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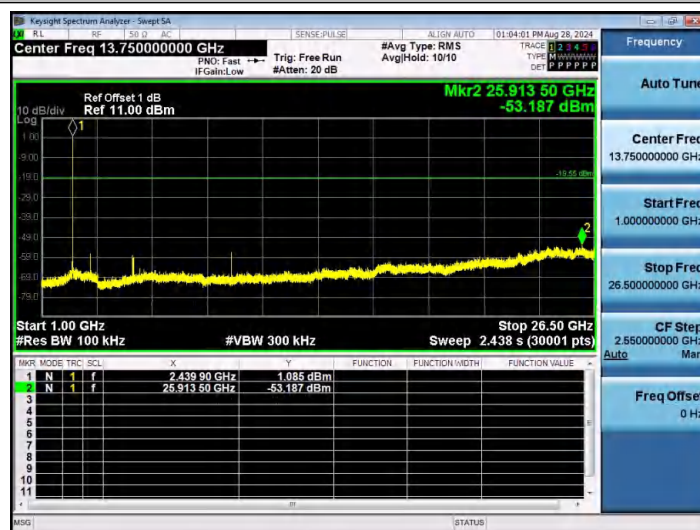




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

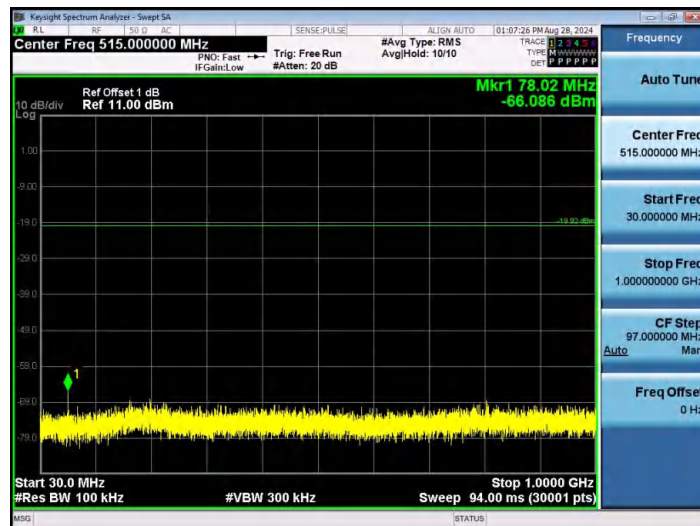


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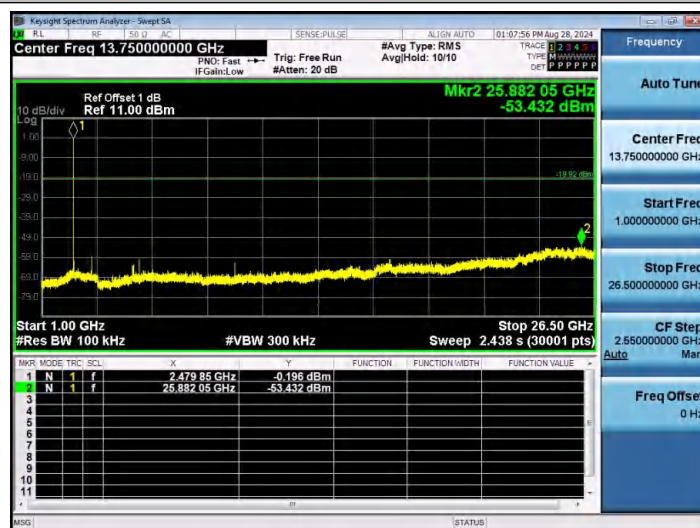




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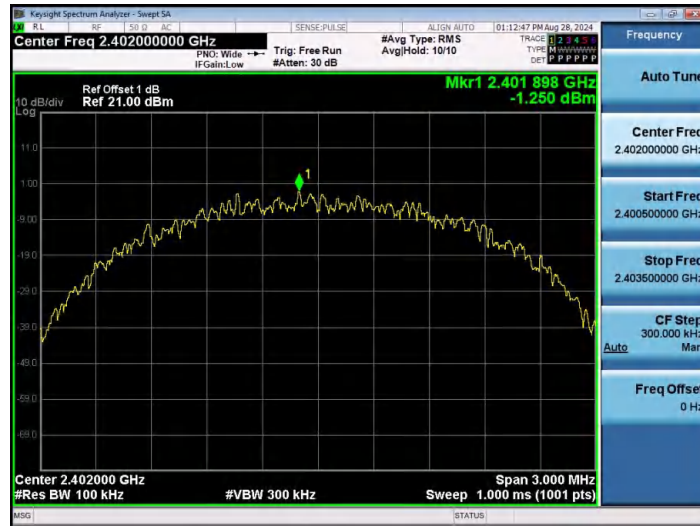


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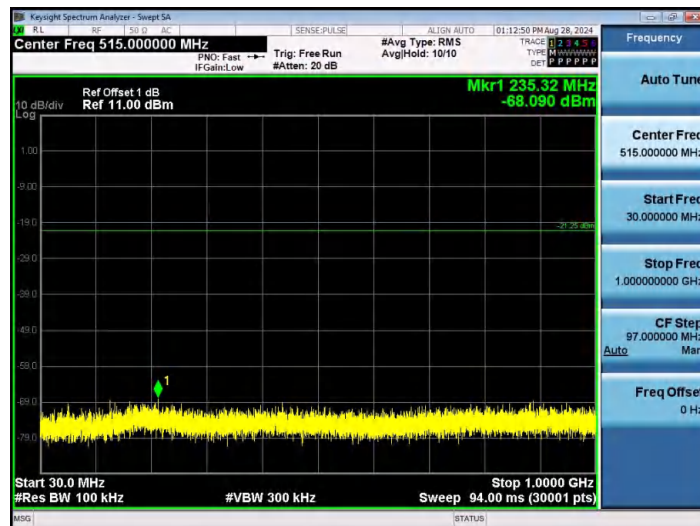


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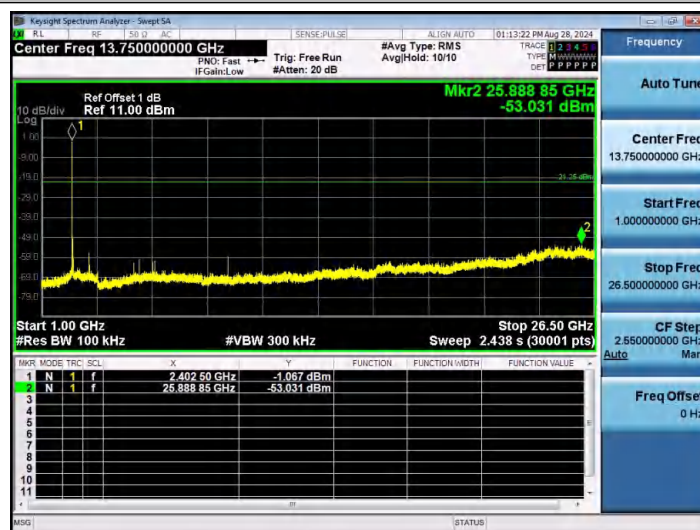




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS

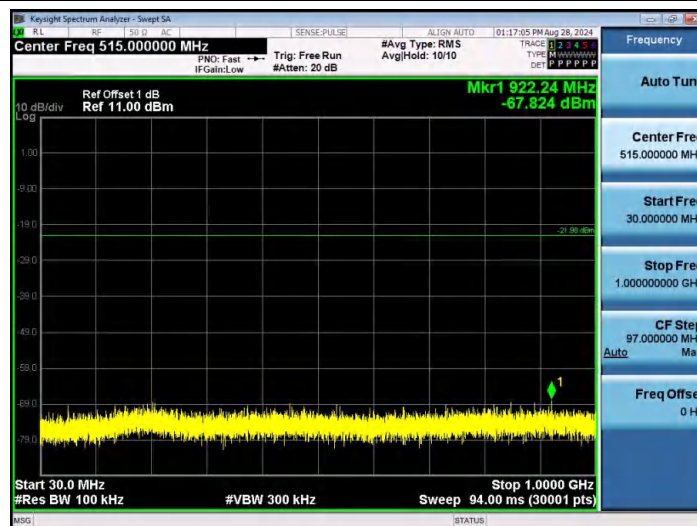


BLE_2M-Ant1-2402-1000~26500-PASS

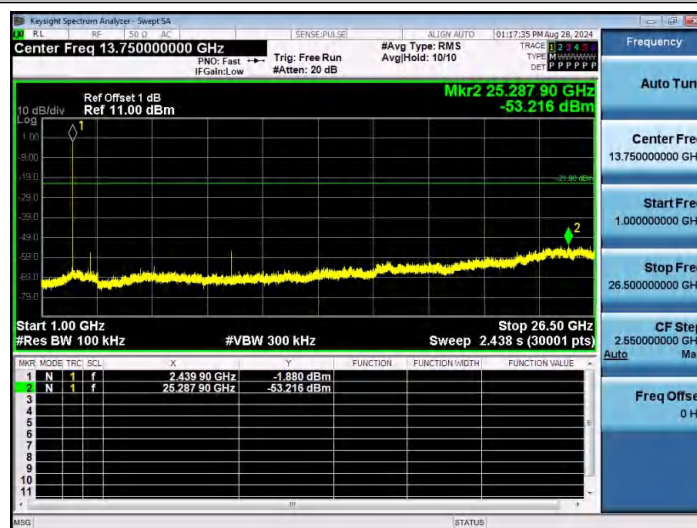




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

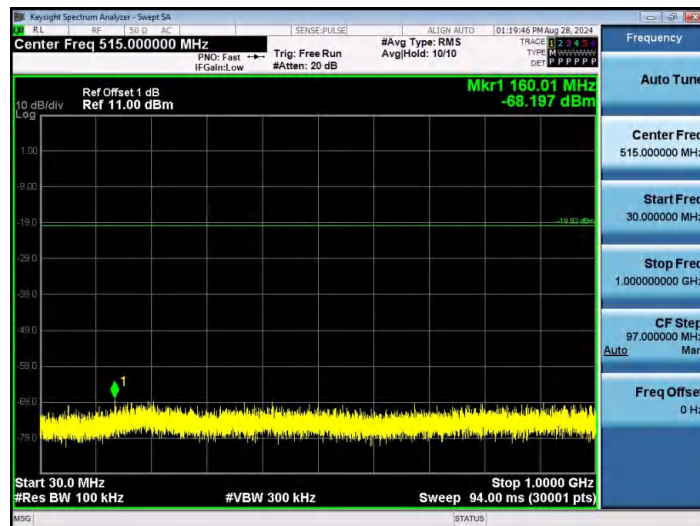


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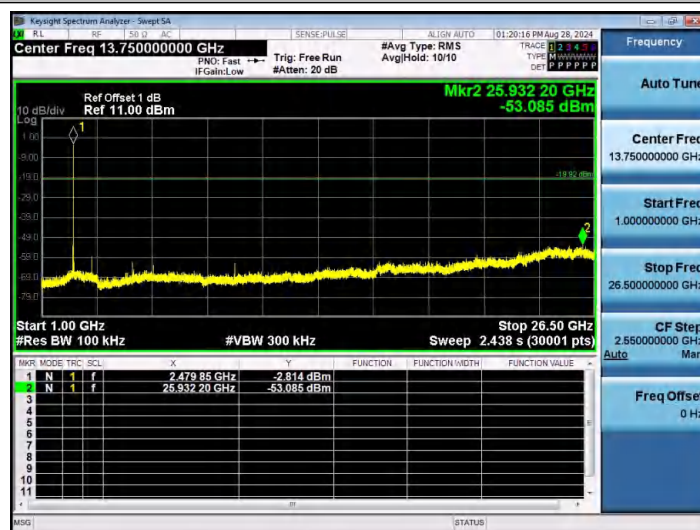




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



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	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00

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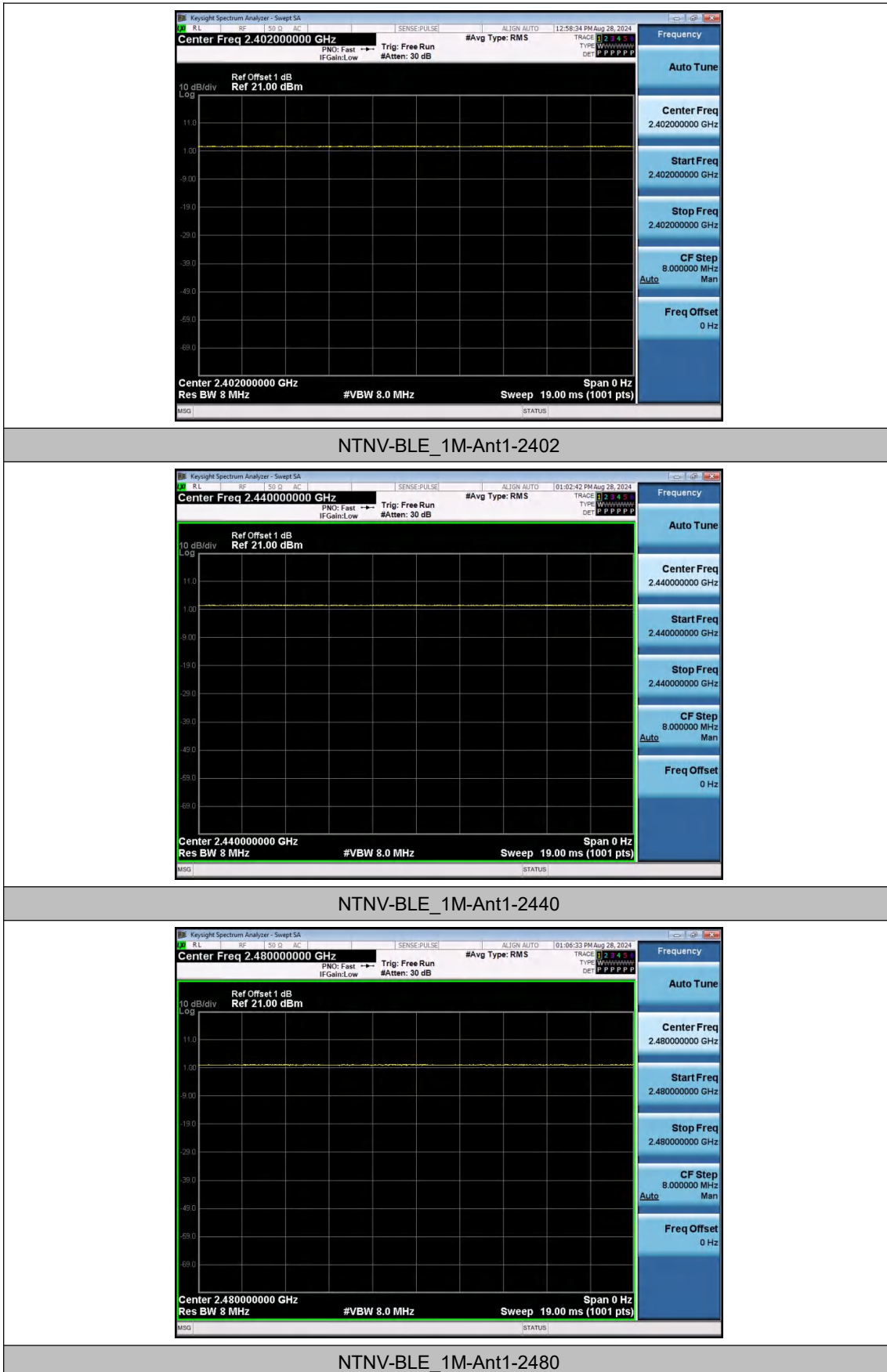
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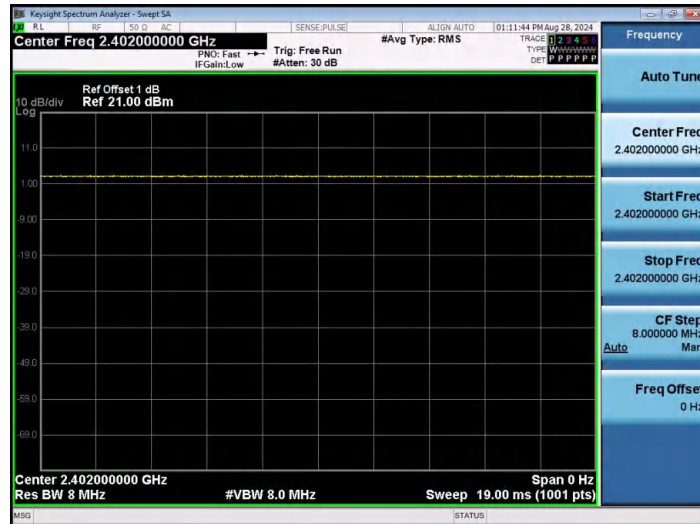


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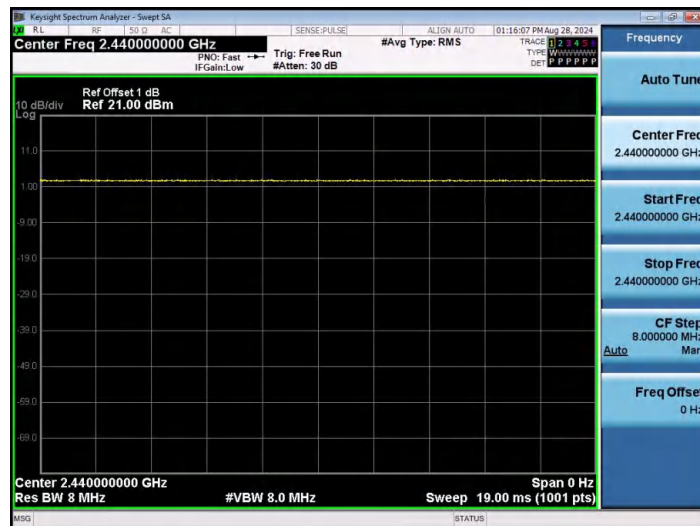
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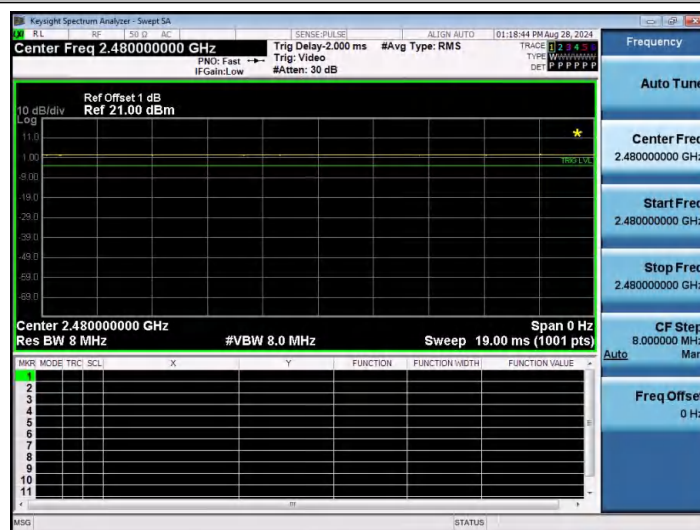




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

