

Appendix Test Data

Report No.:	1812C50369712501	Test Sample No.:	1-2-2
Start Test Date:	2025-08-11	Finish Test Date:	2025-08-12
Test Engineer:	<i>Aless Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.1°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.692	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.676	2440.372	0.5	PASS
BLE_1M	Ant1	2480	0.704	2479.664	2480.368	0.5	PASS
BLE_2M	Ant1	2402	1.336	2401.340	2402.676	0.5	PASS
BLE_2M	Ant1	2440	1.140	2439.456	2440.596	0.5	PASS
BLE_2M	Ant1	2480	1.120	2479.440	2480.560	0.5	PASS

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Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0236	2401.5071	2402.5307	---	---
BLE_1M	Ant1	2440	1.0233	2439.5049	2440.5282	---	---
BLE_1M	Ant1	2480	1.0339	2479.5013	2480.5352	---	---
BLE_2M	Ant1	2402	2.0749	2400.9910	2403.0659	---	---
BLE_2M	Ant1	2440	2.0457	2439.0020	2441.0477	---	---
BLE_2M	Ant1	2480	2.0804	2478.9949	2481.0753	---	---

Test Graphs



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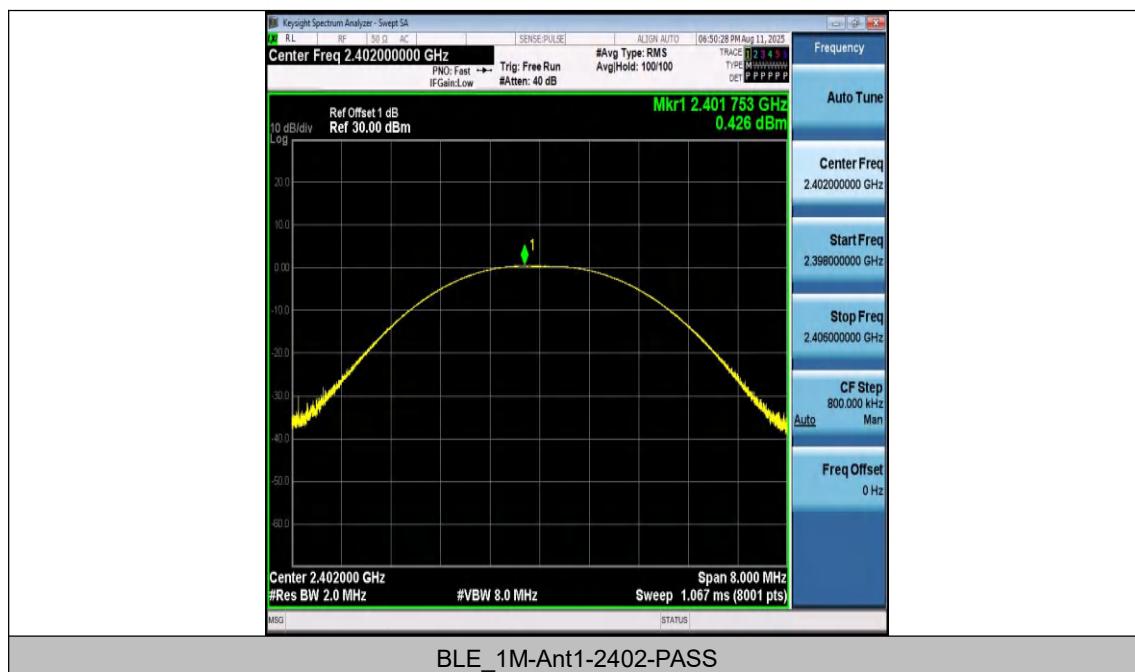
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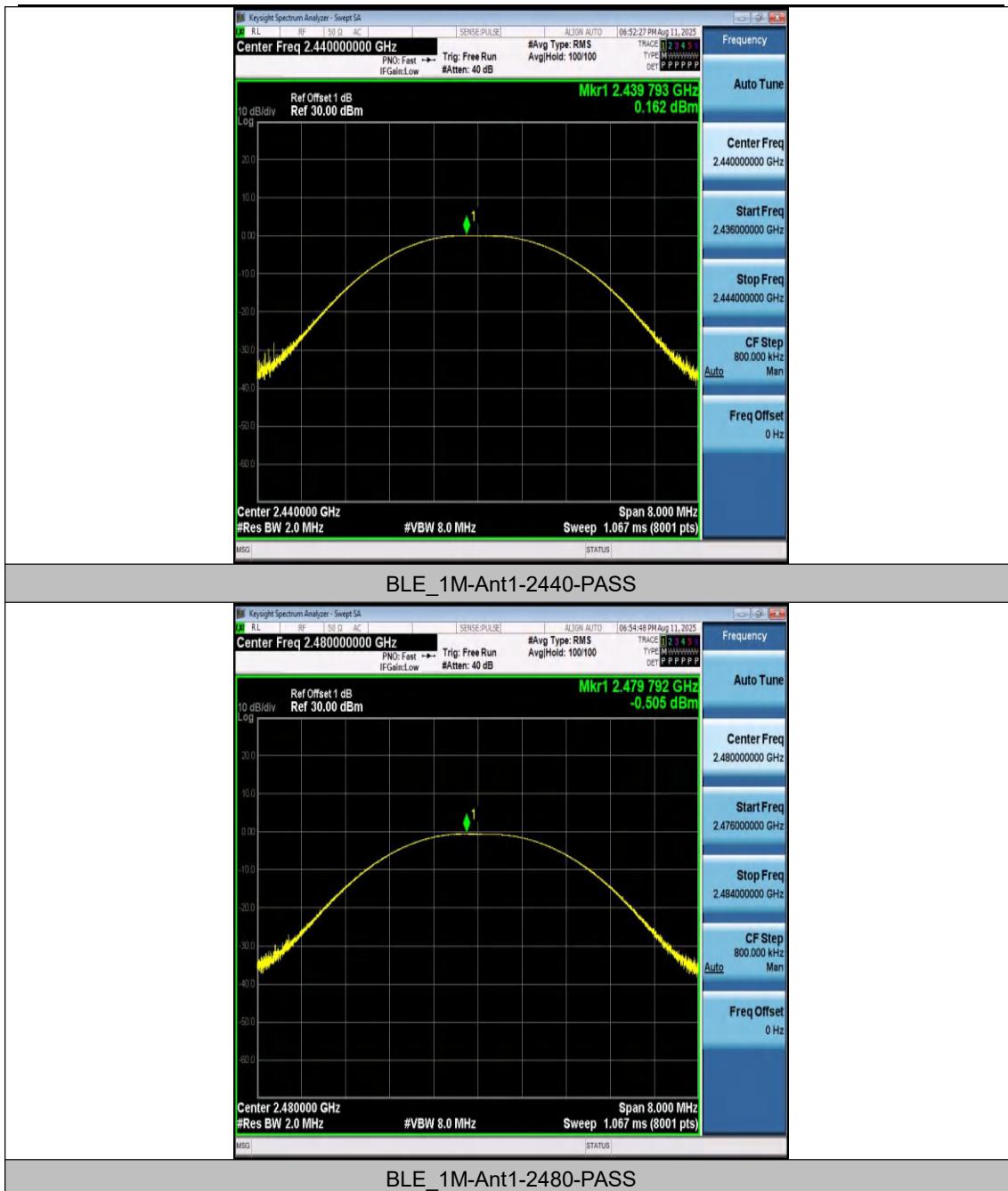
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.43	≤30	PASS
BLE_1M	Ant1	2440	0.16	≤30	PASS
BLE_1M	Ant1	2480	-0.51	≤30	PASS
BLE_2M	Ant1	2402	0.52	≤30	PASS
BLE_2M	Ant1	2440	0.30	≤30	PASS
BLE_2M	Ant1	2480	-0.33	≤30	PASS

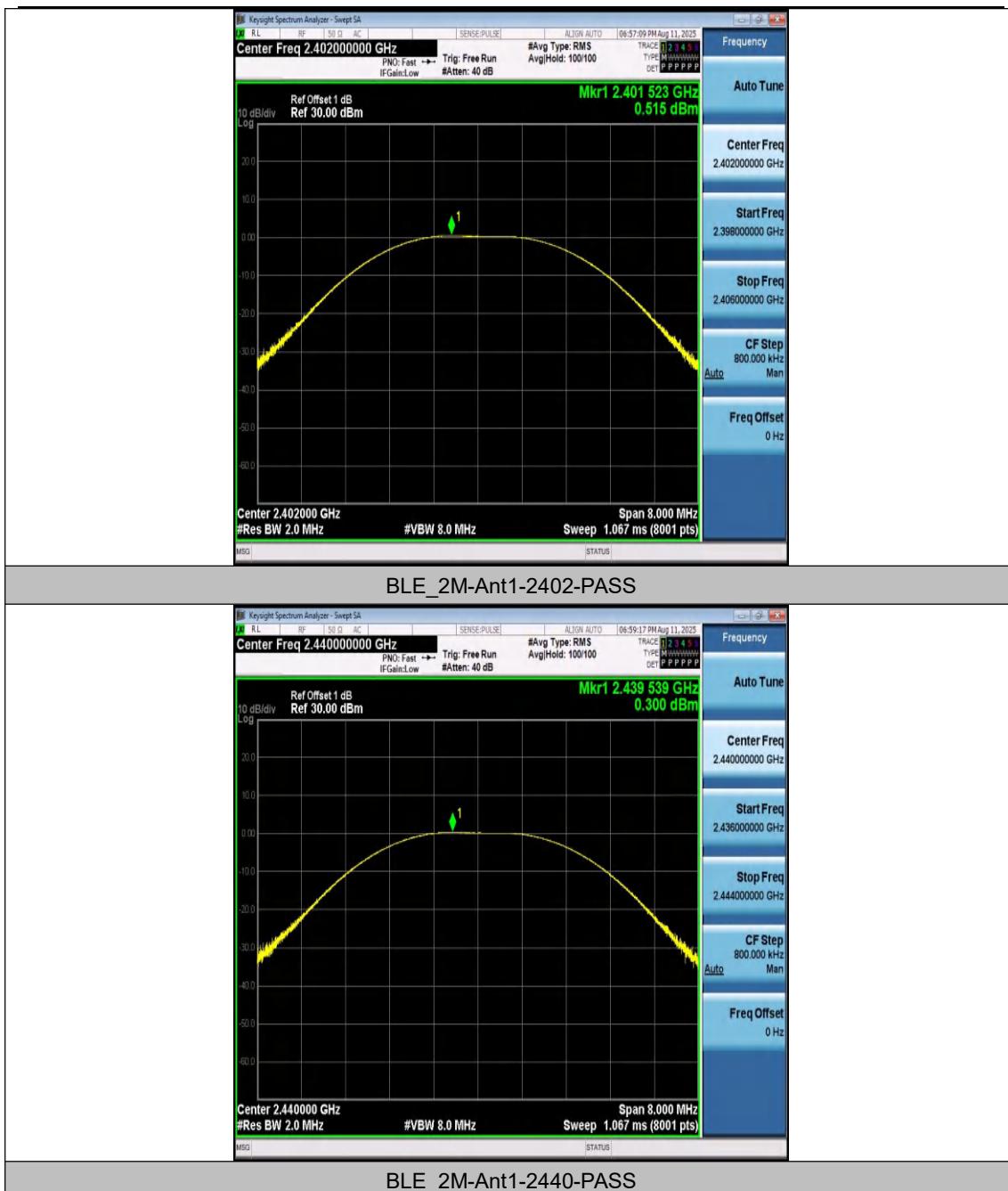
Test Graphs Peak



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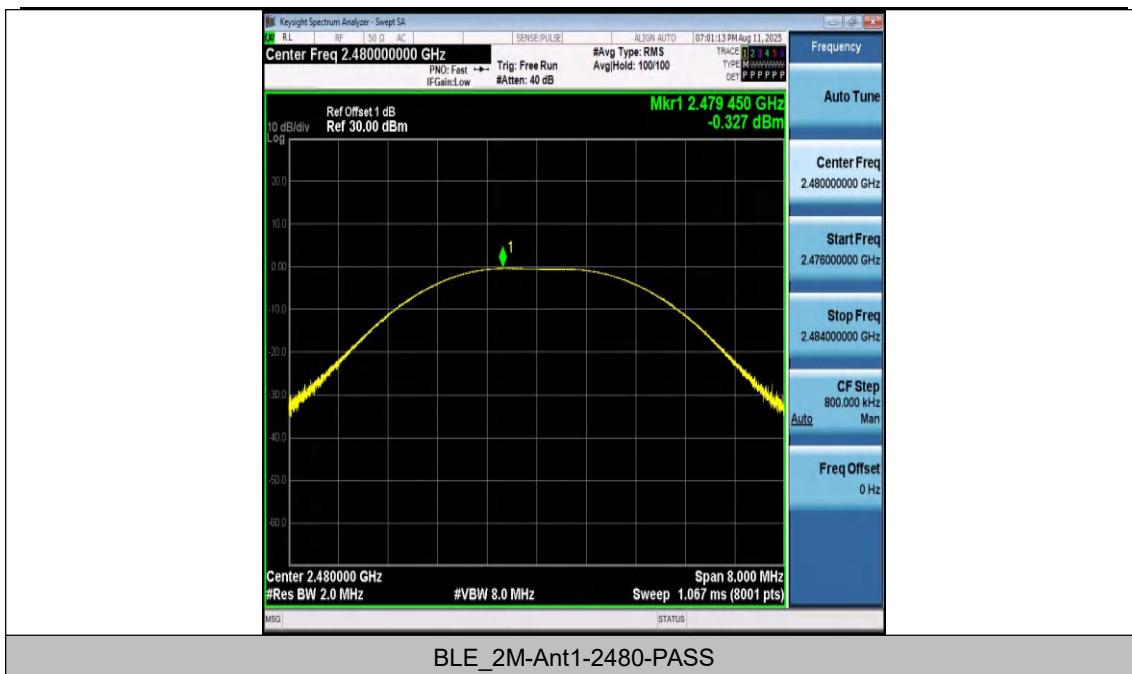
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Appendix D: Maximum power spectral density

Test Result

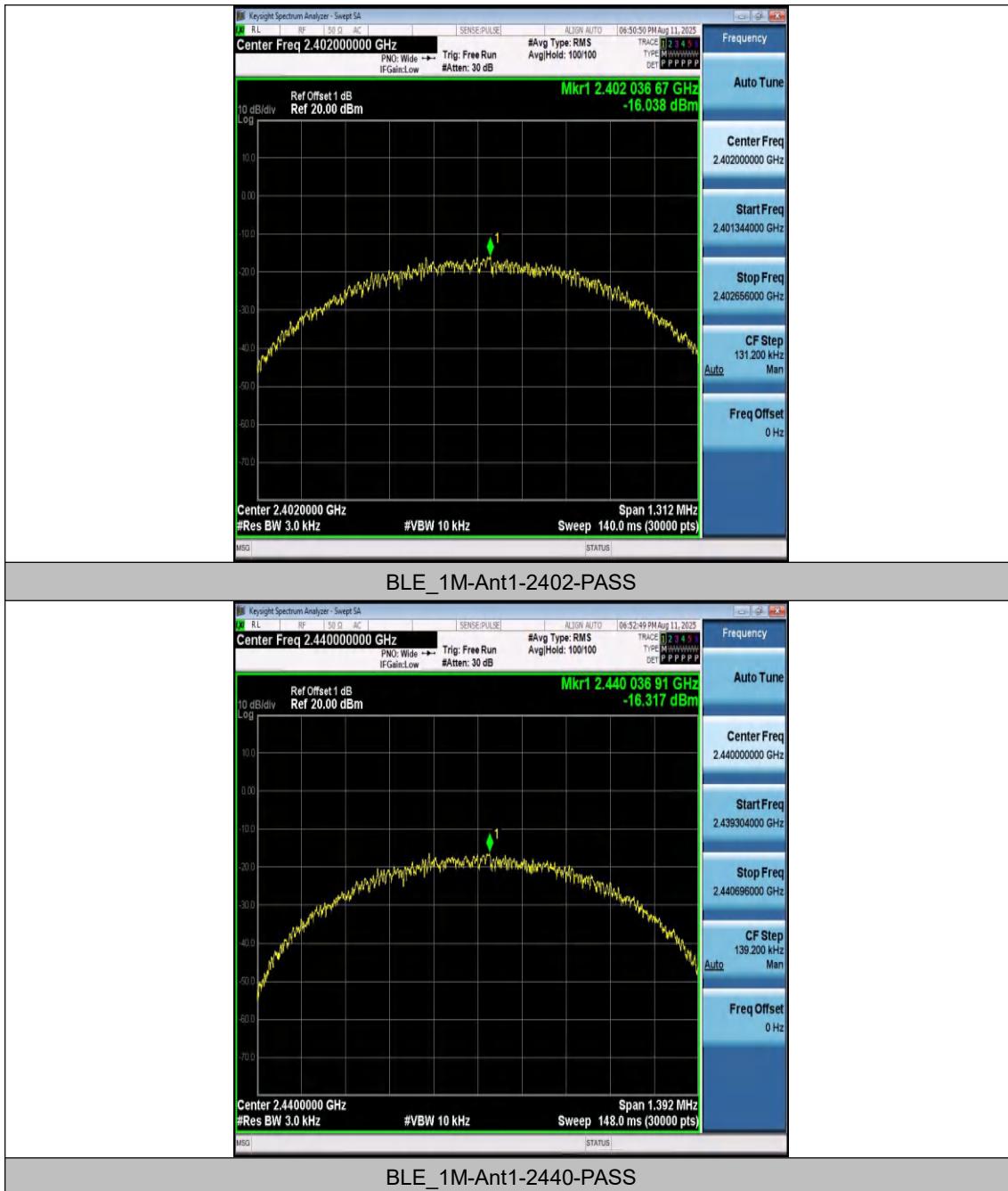
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.04	≤8.00	PASS
BLE_1M	Ant1	2440	-16.32	≤8.00	PASS
BLE_1M	Ant1	2480	-16.89	≤8.00	PASS
BLE_2M	Ant1	2402	-18.45	≤8.00	PASS
BLE_2M	Ant1	2440	-18.26	≤8.00	PASS
BLE_2M	Ant1	2480	-18.95	≤8.00	PASS

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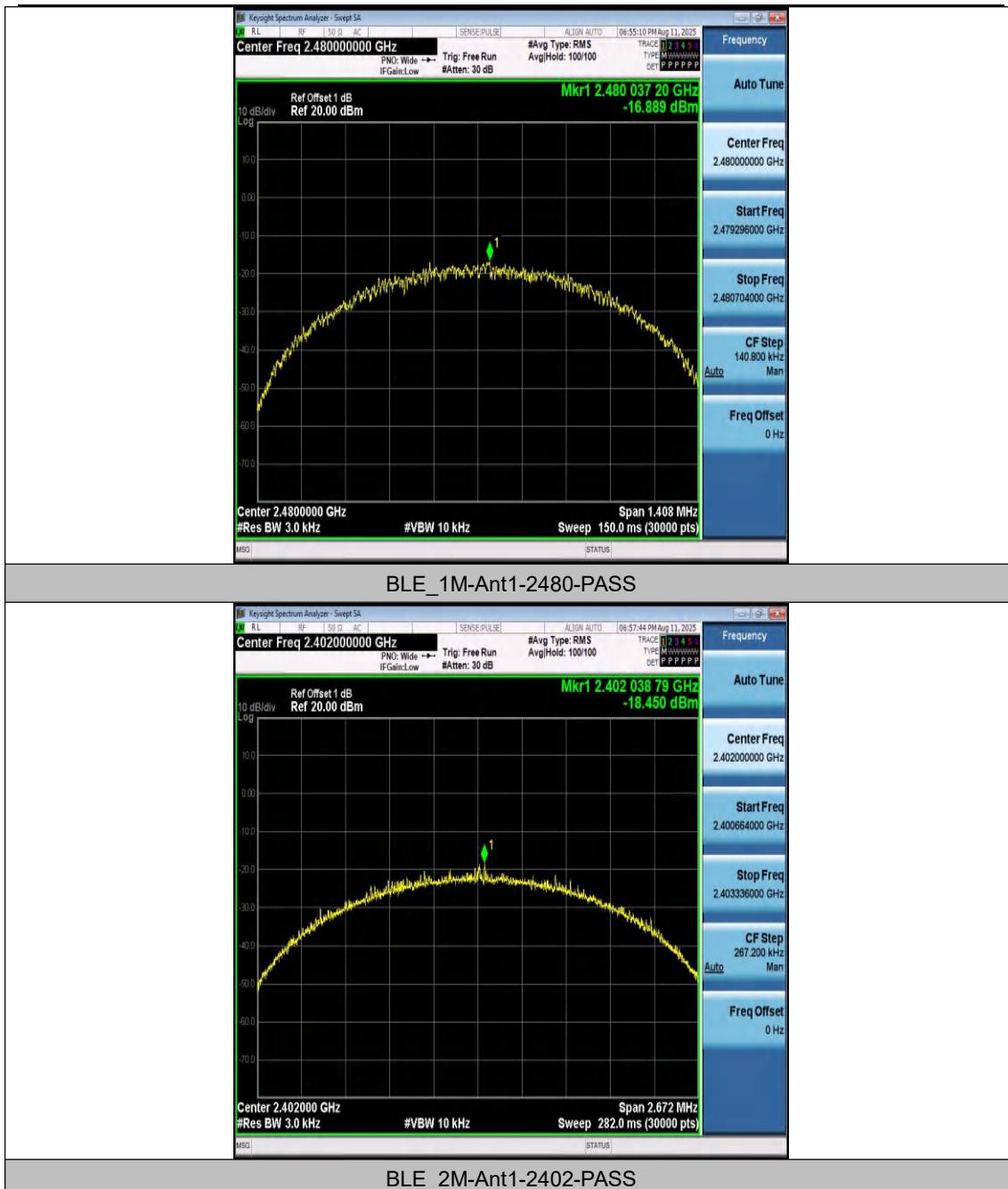
Test Graphs



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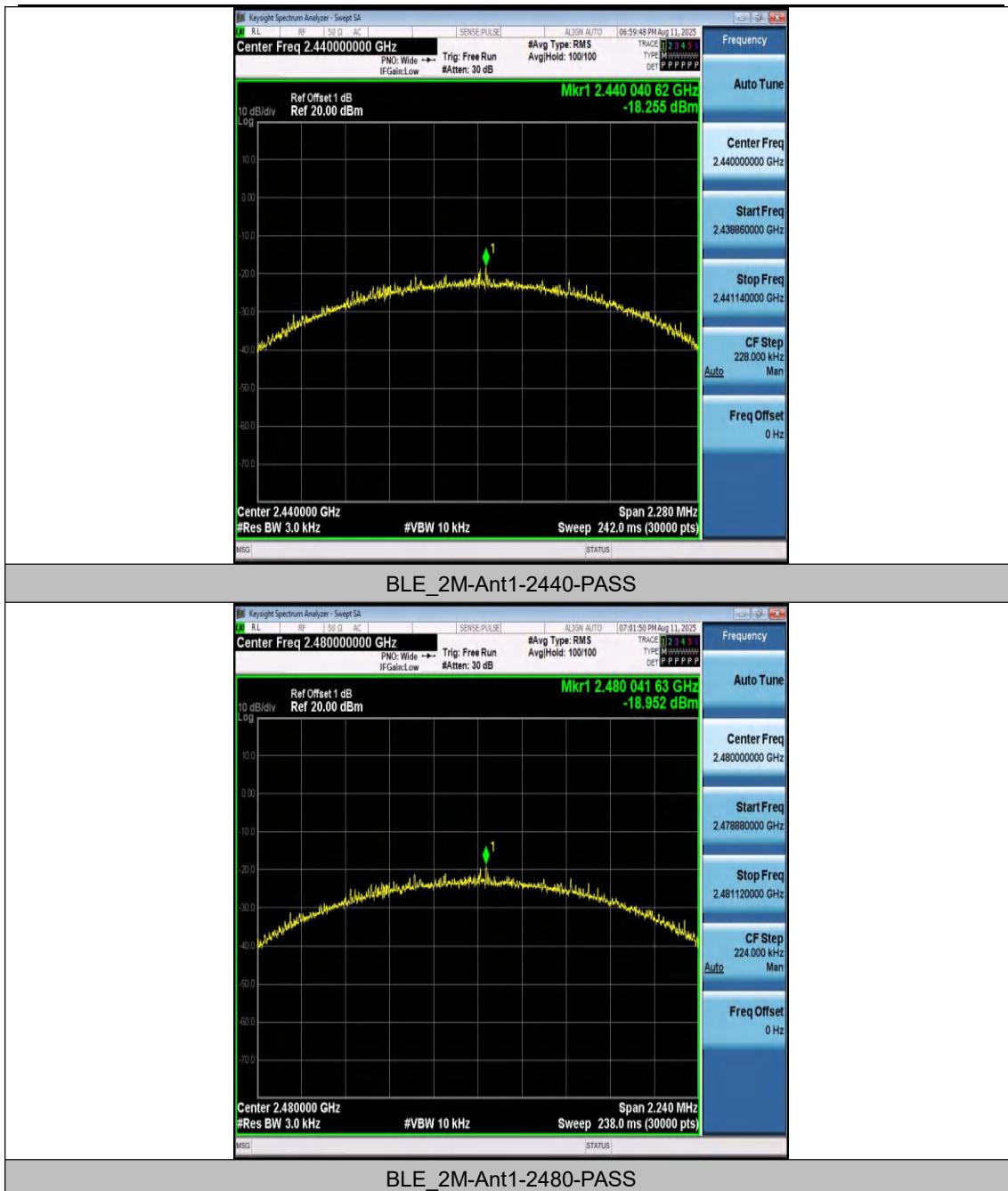
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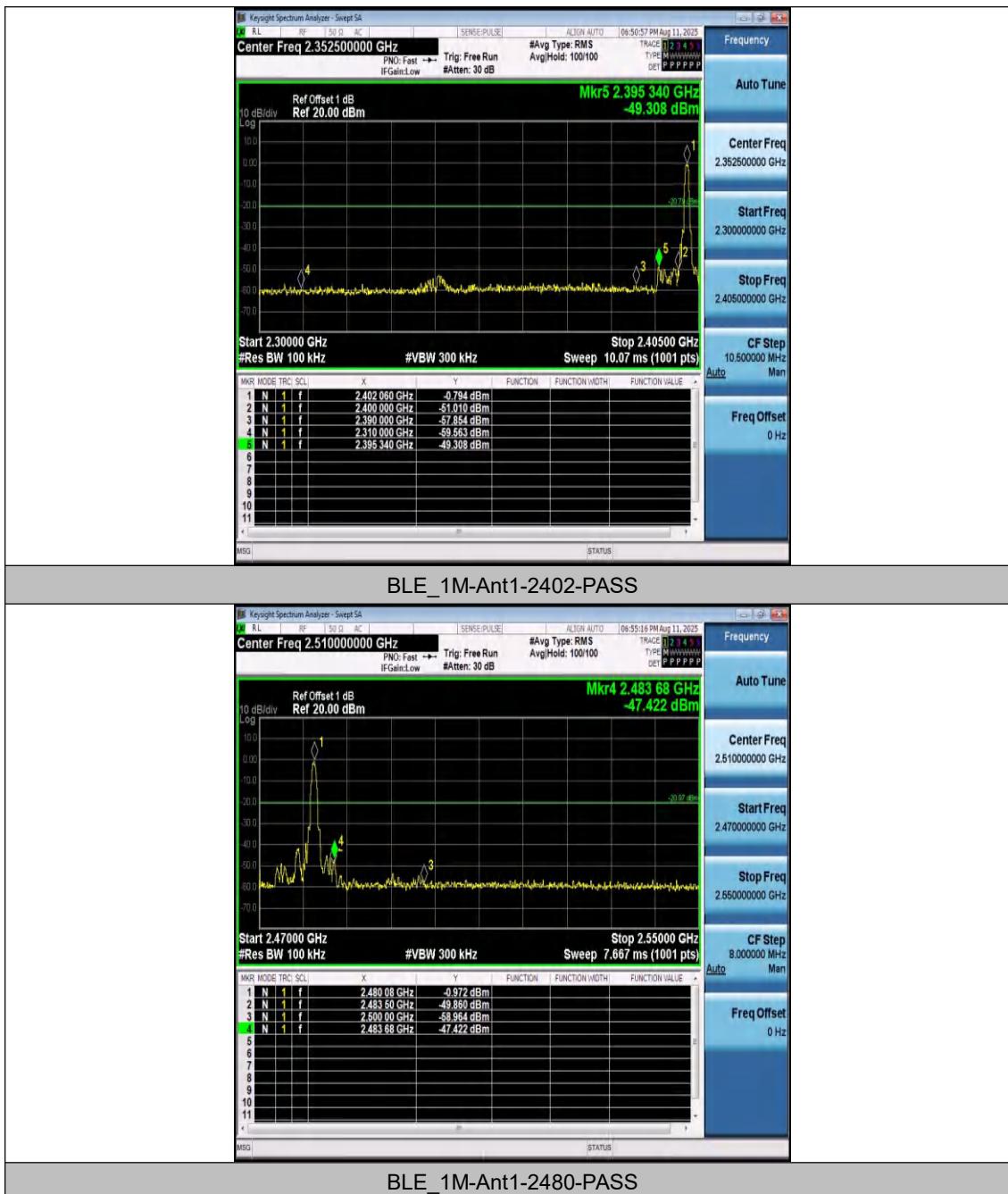
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.79	-49.31	≤-20.79	PASS
BLE_1M	Ant1	High	2480	-0.97	-47.42	≤-20.97	PASS
BLE_2M	Ant1	Low	2402	-2.98	-35.75	≤-22.98	PASS
BLE_2M	Ant1	High	2480	-1.47	-50.62	≤-21.47	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

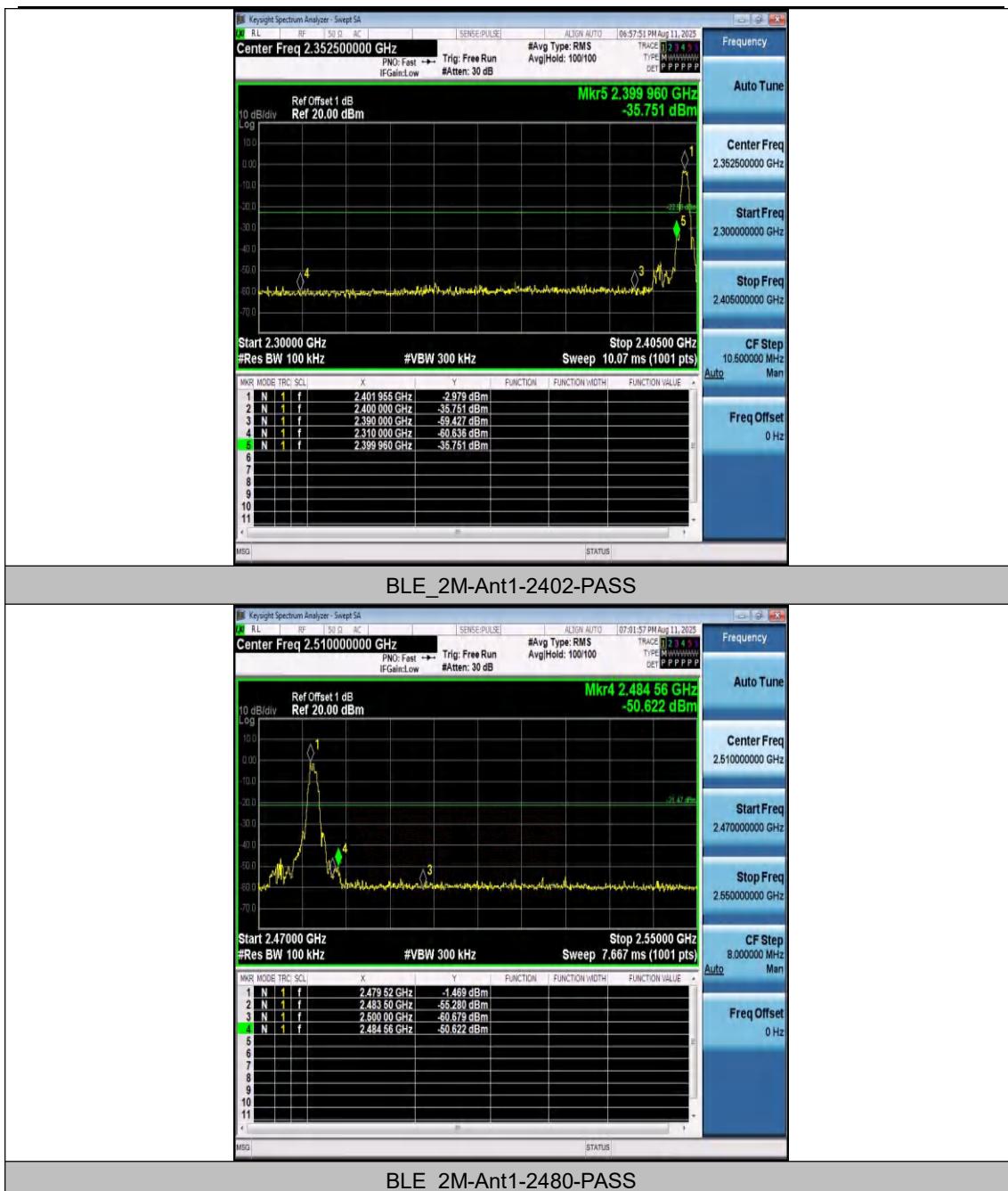
Test Graphs



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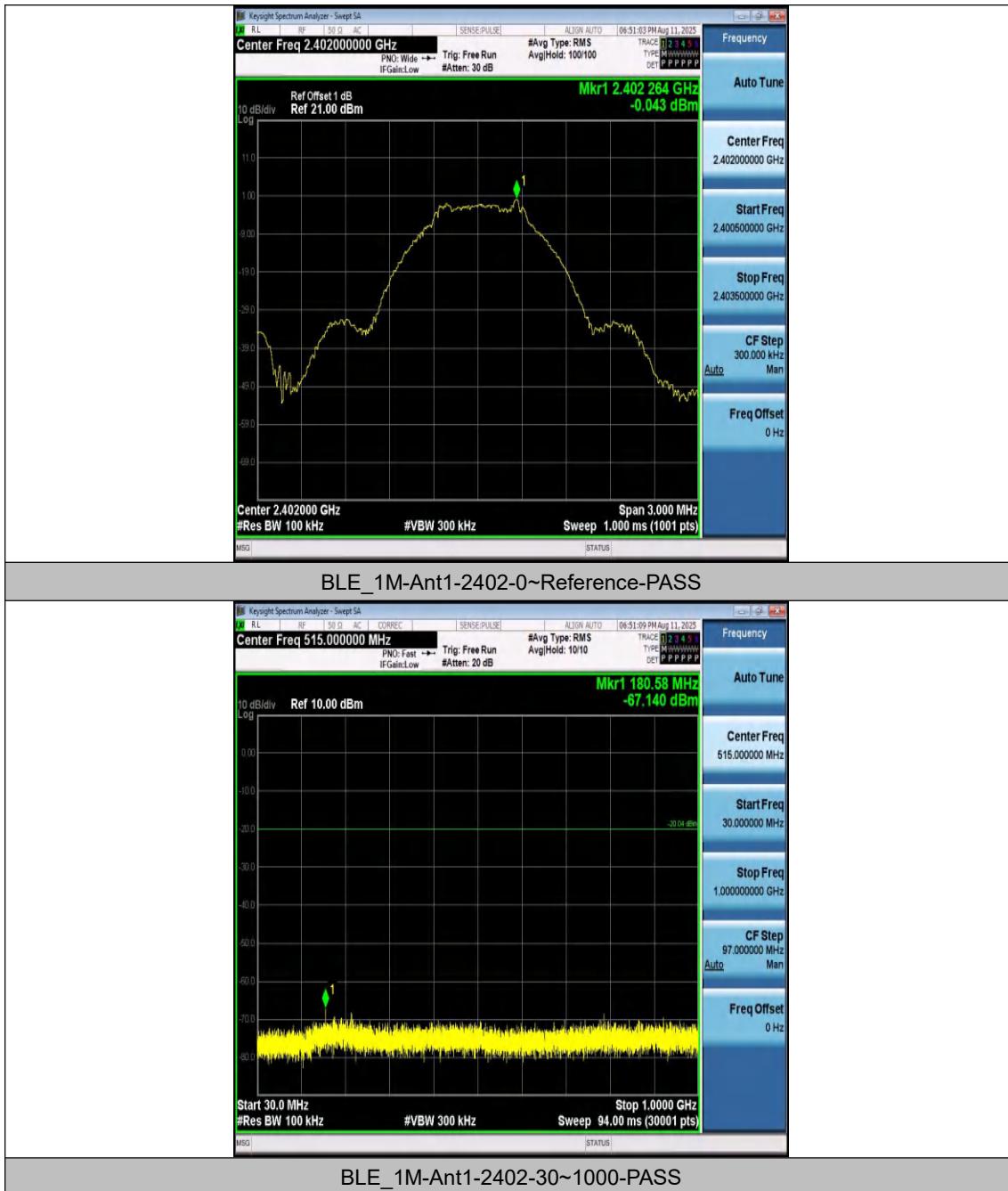
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.04	-0.04	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.04	-67.14	≤-20.04	PASS
BLE_1M	Ant1	2402	1000~26500	-0.04	-44.21	≤-20.04	PASS
BLE_1M	Ant1	2440	0~Reference	-1.00	-1.00	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.00	-68.61	≤-21	PASS
BLE_1M	Ant1	2440	1000~26500	-1.00	-44.21	≤-21	PASS
BLE_1M	Ant1	2480	0~Reference	-1.58	-1.58	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.58	-68.45	≤-21.58	PASS
BLE_1M	Ant1	2480	1000~26500	-1.58	-43.25	≤-21.58	PASS
BLE_2M	Ant1	2402	0~Reference	-0.75	-0.75	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.75	-68.81	≤-20.75	PASS
BLE_2M	Ant1	2402	1000~26500	-0.75	-44.29	≤-20.75	PASS
BLE_2M	Ant1	2440	0~Reference	-1.29	-1.29	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.29	-66.85	≤-21.29	PASS
BLE_2M	Ant1	2440	1000~26500	-1.29	-43.95	≤-21.29	PASS
BLE_2M	Ant1	2480	0~Reference	-1.81	-1.81	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.81	-69.1	≤-21.81	PASS
BLE_2M	Ant1	2480	1000~26500	-1.81	-43.04	≤-21.81	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

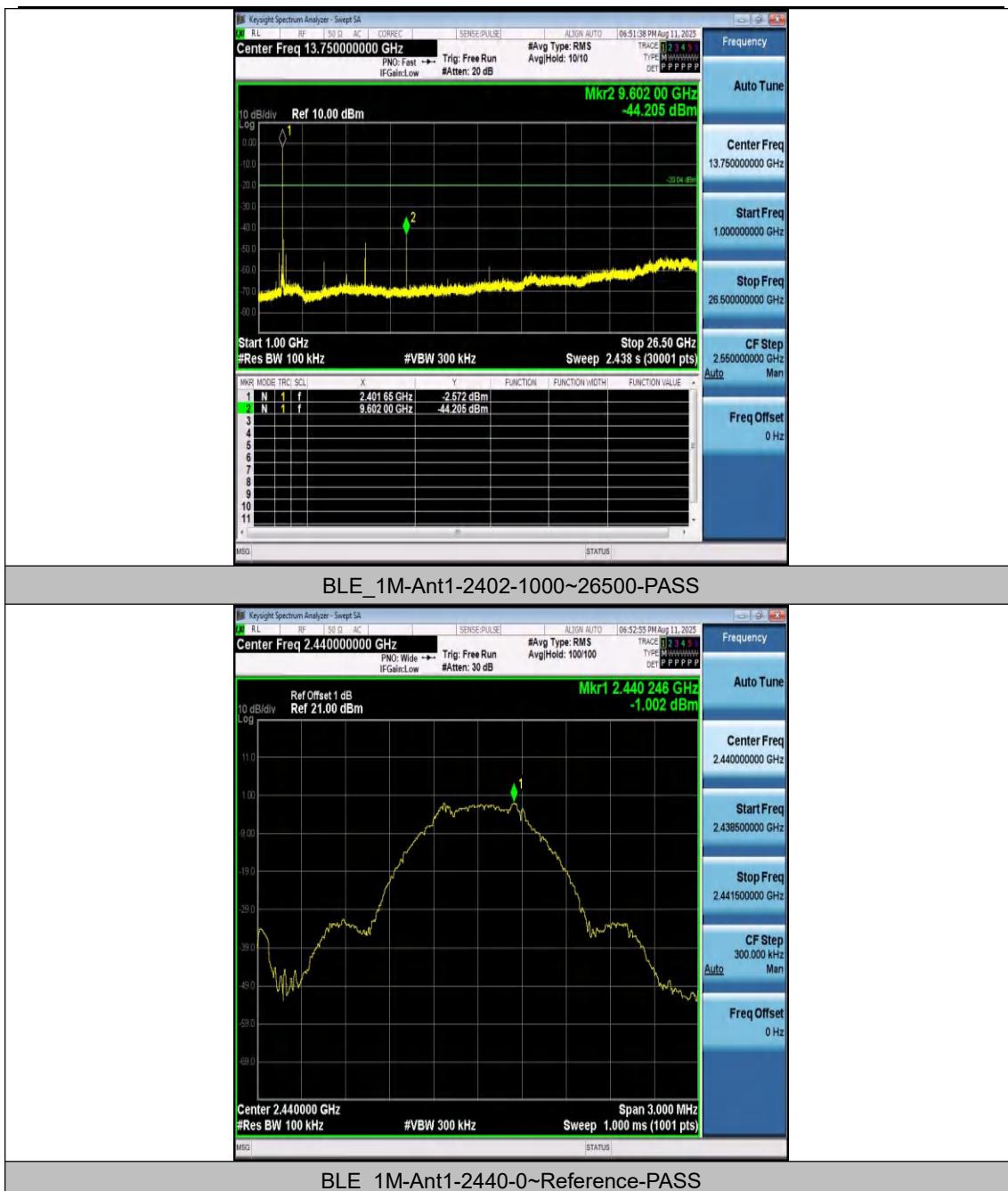
Test Graphs



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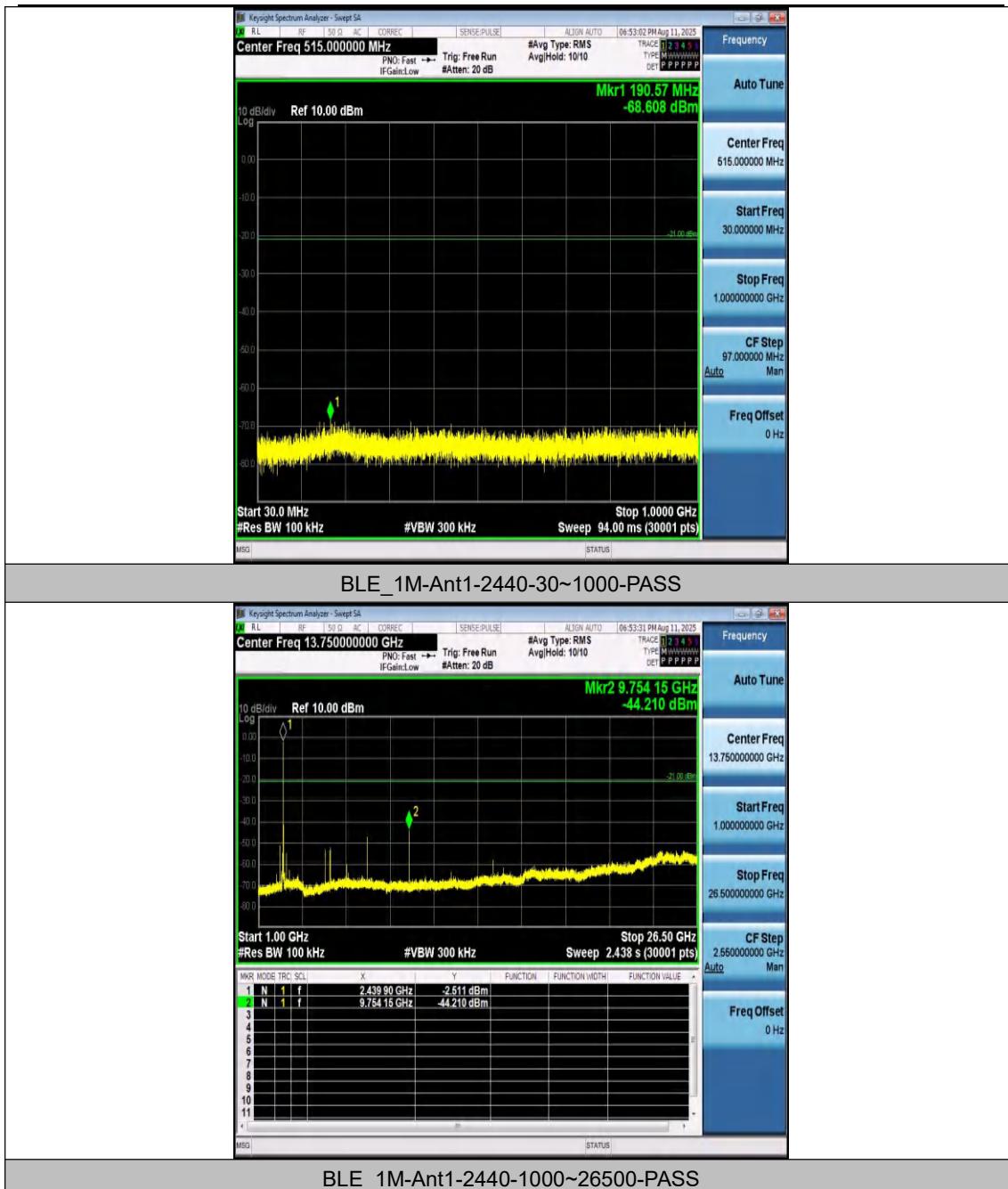
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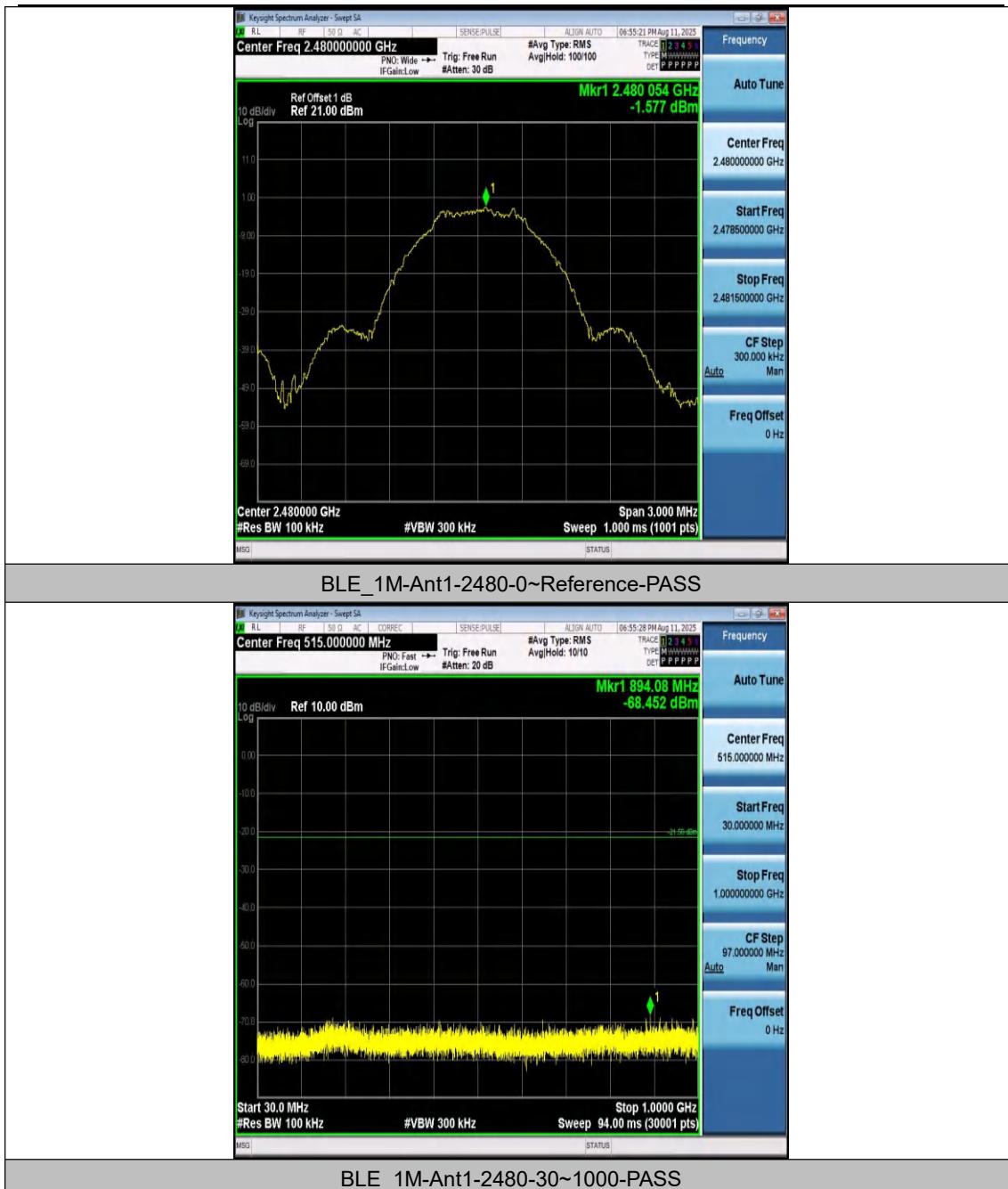
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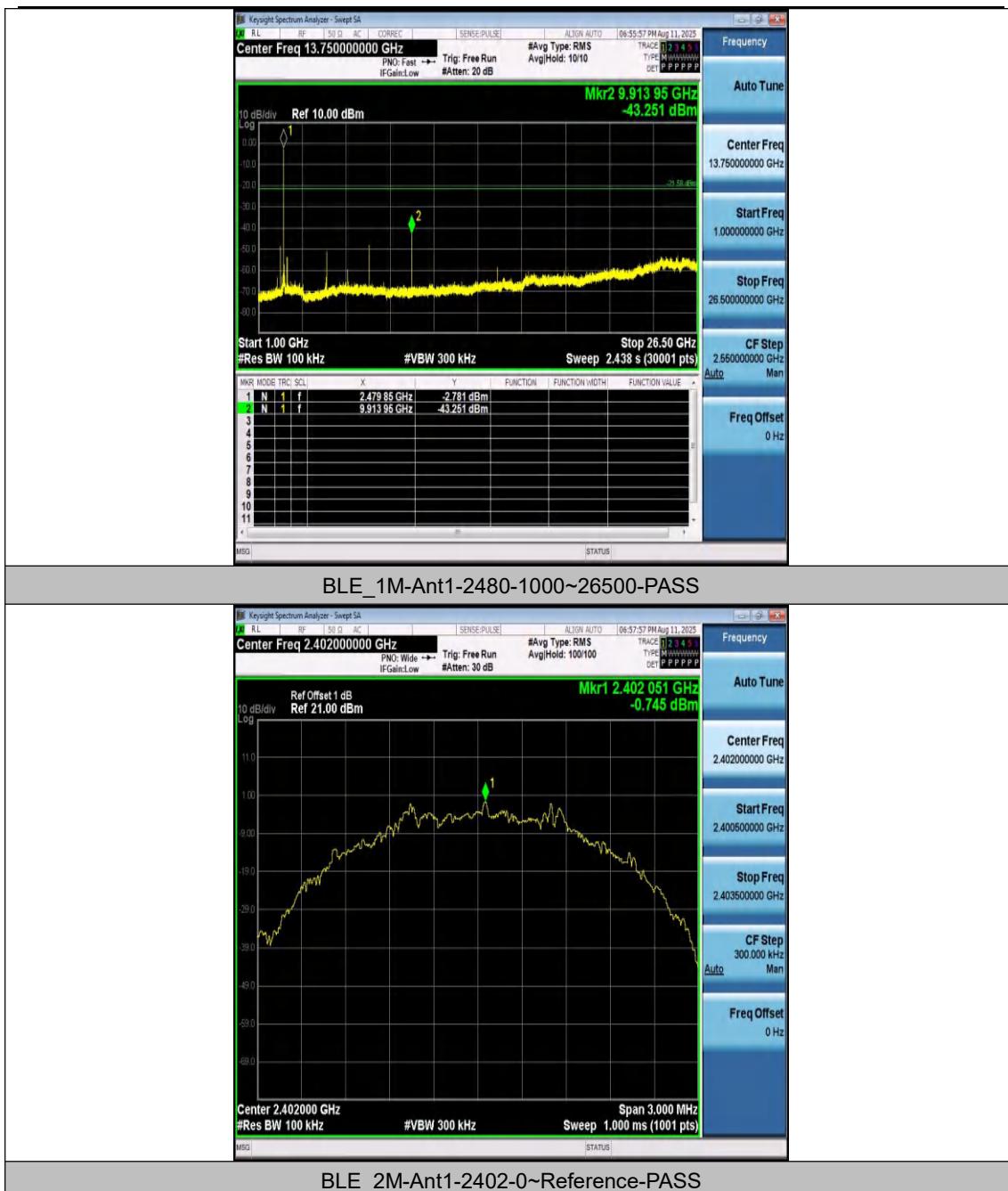
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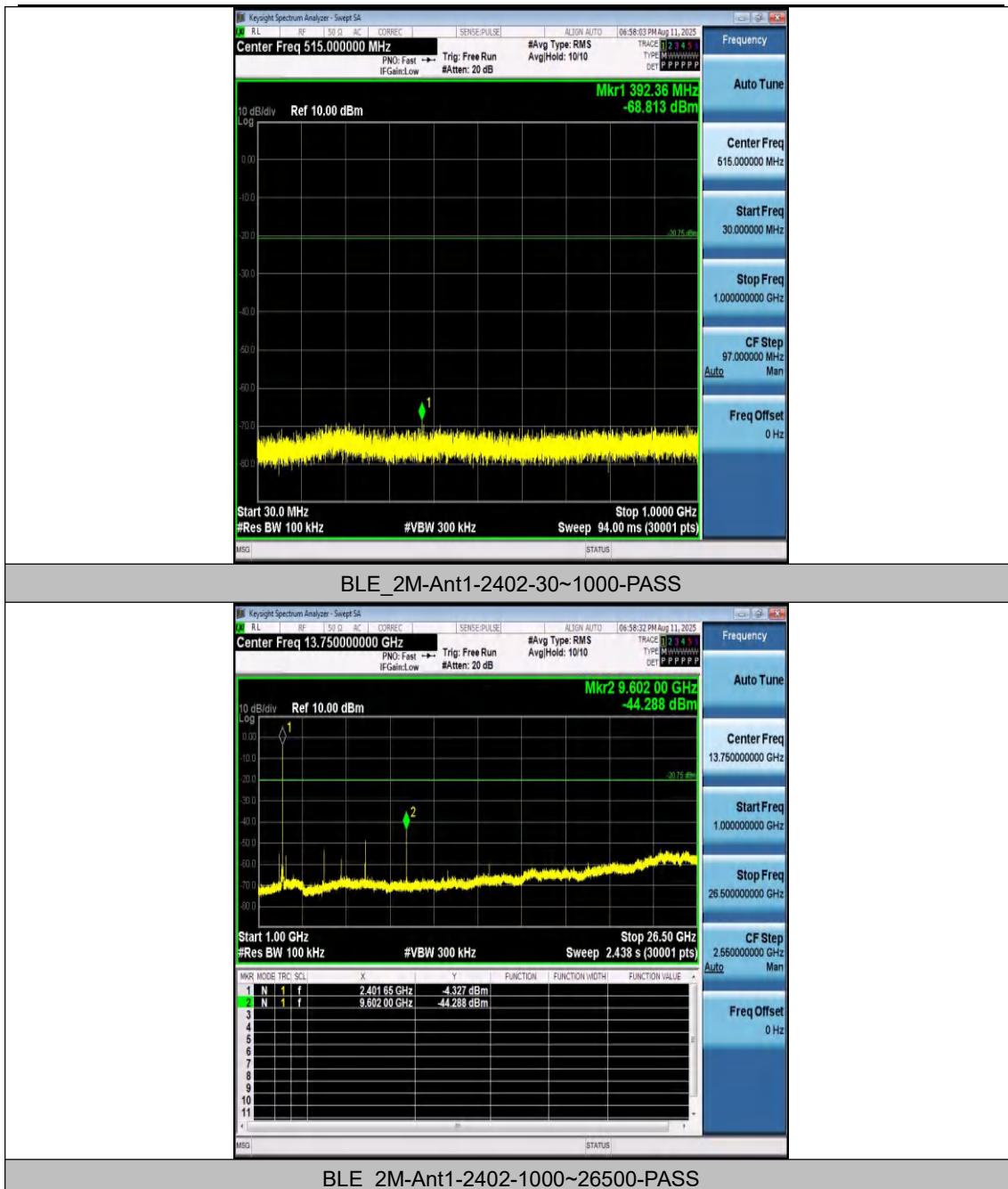
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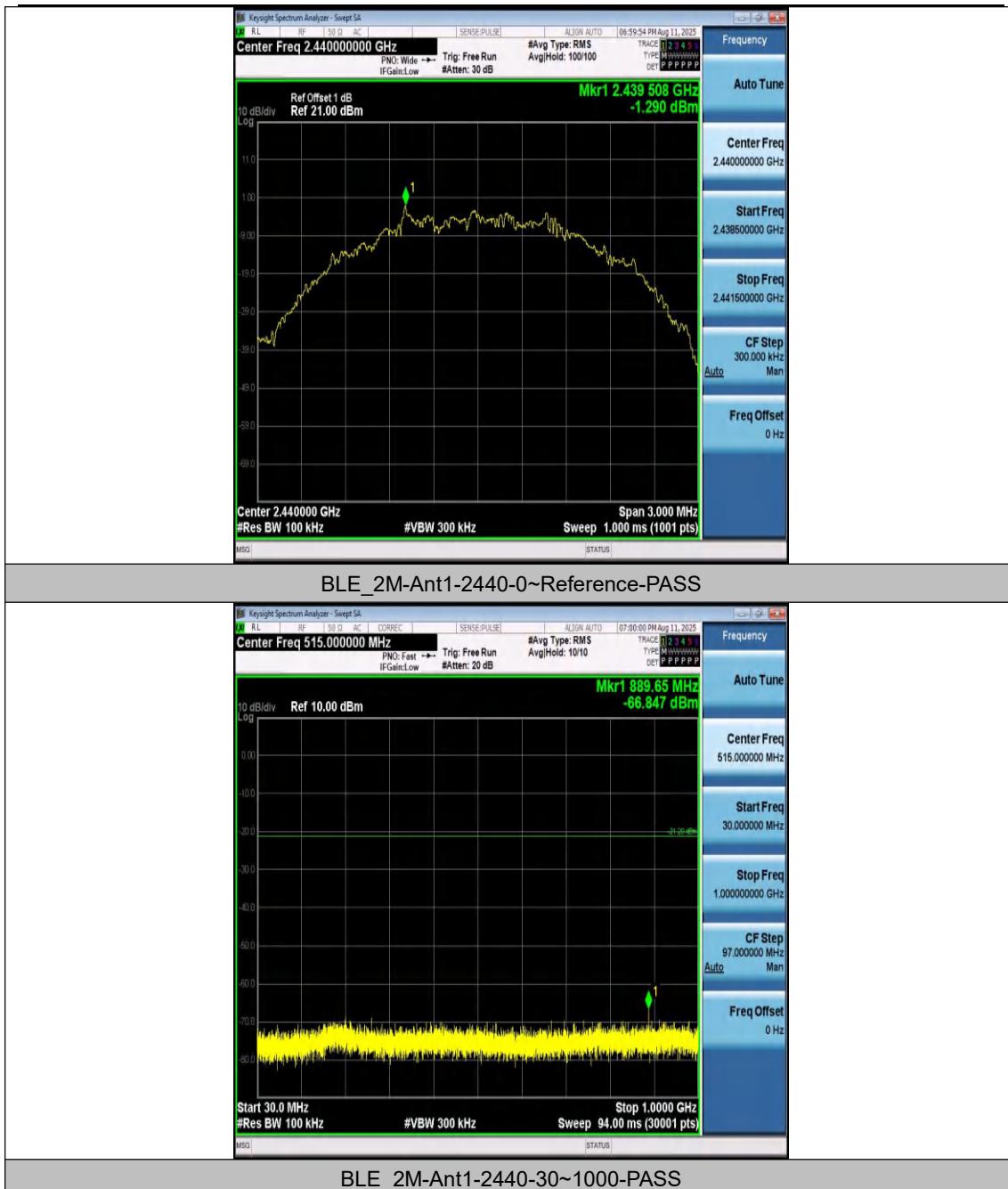
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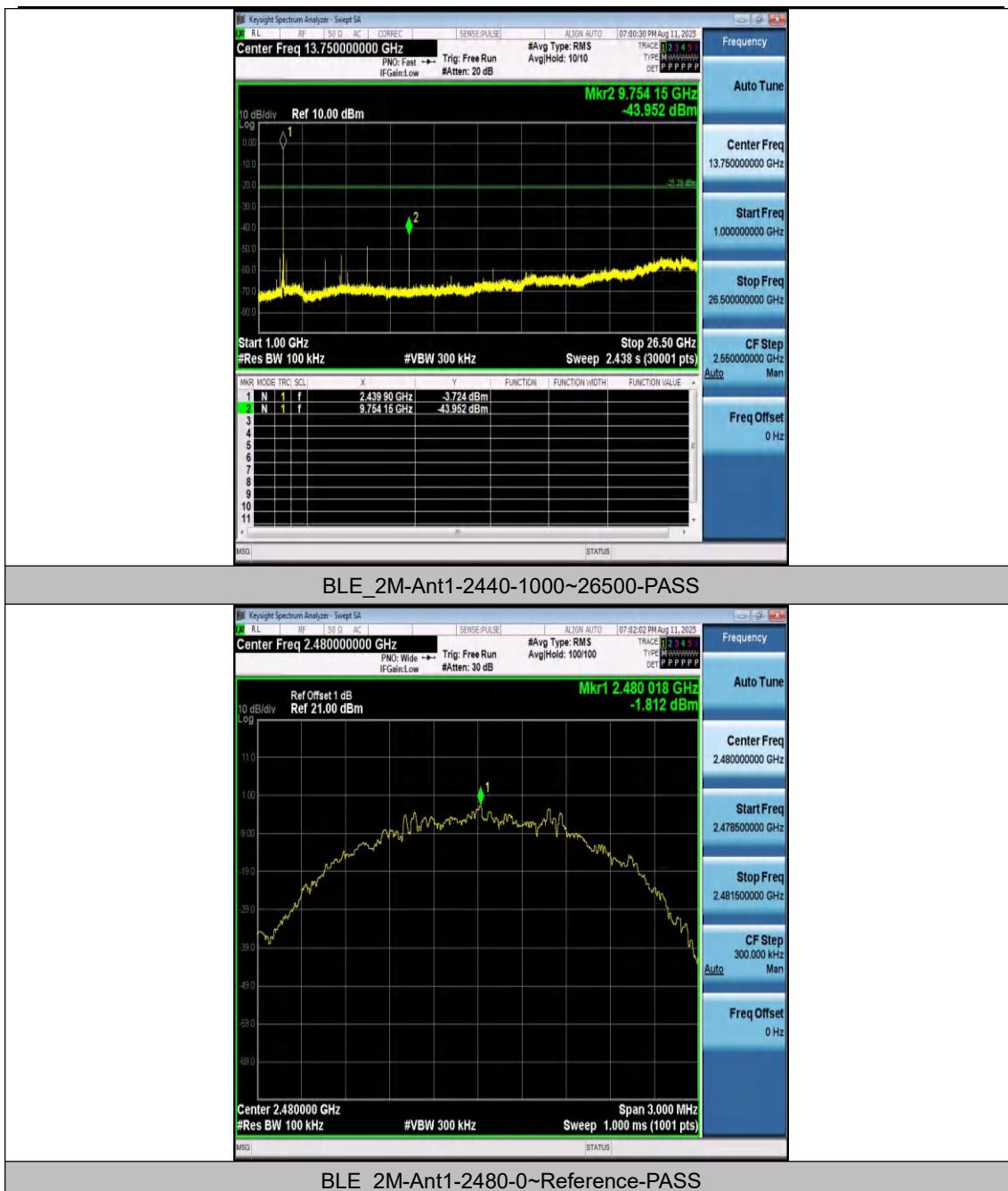
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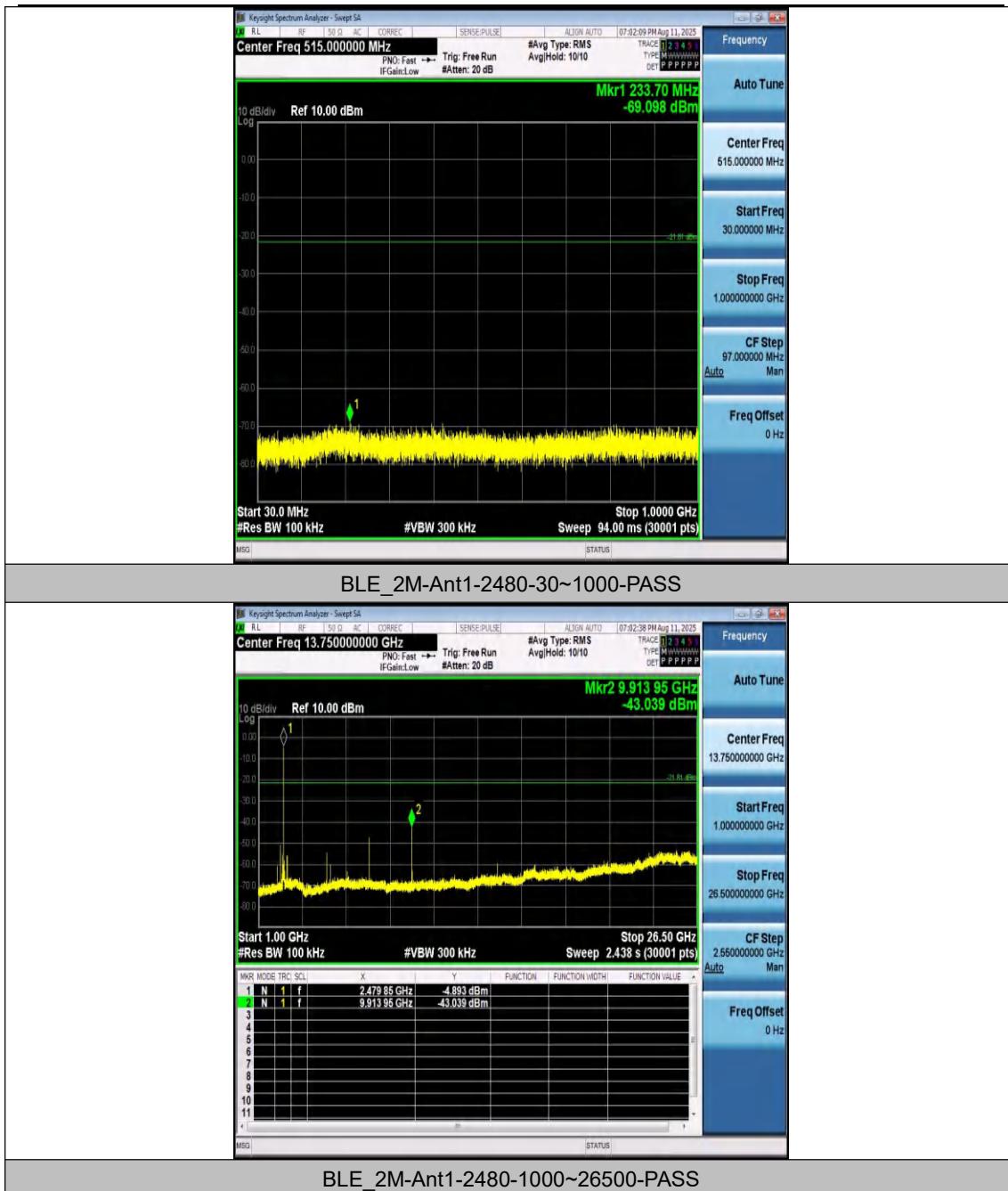
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Appendix G: Duty Cycle

Test Result

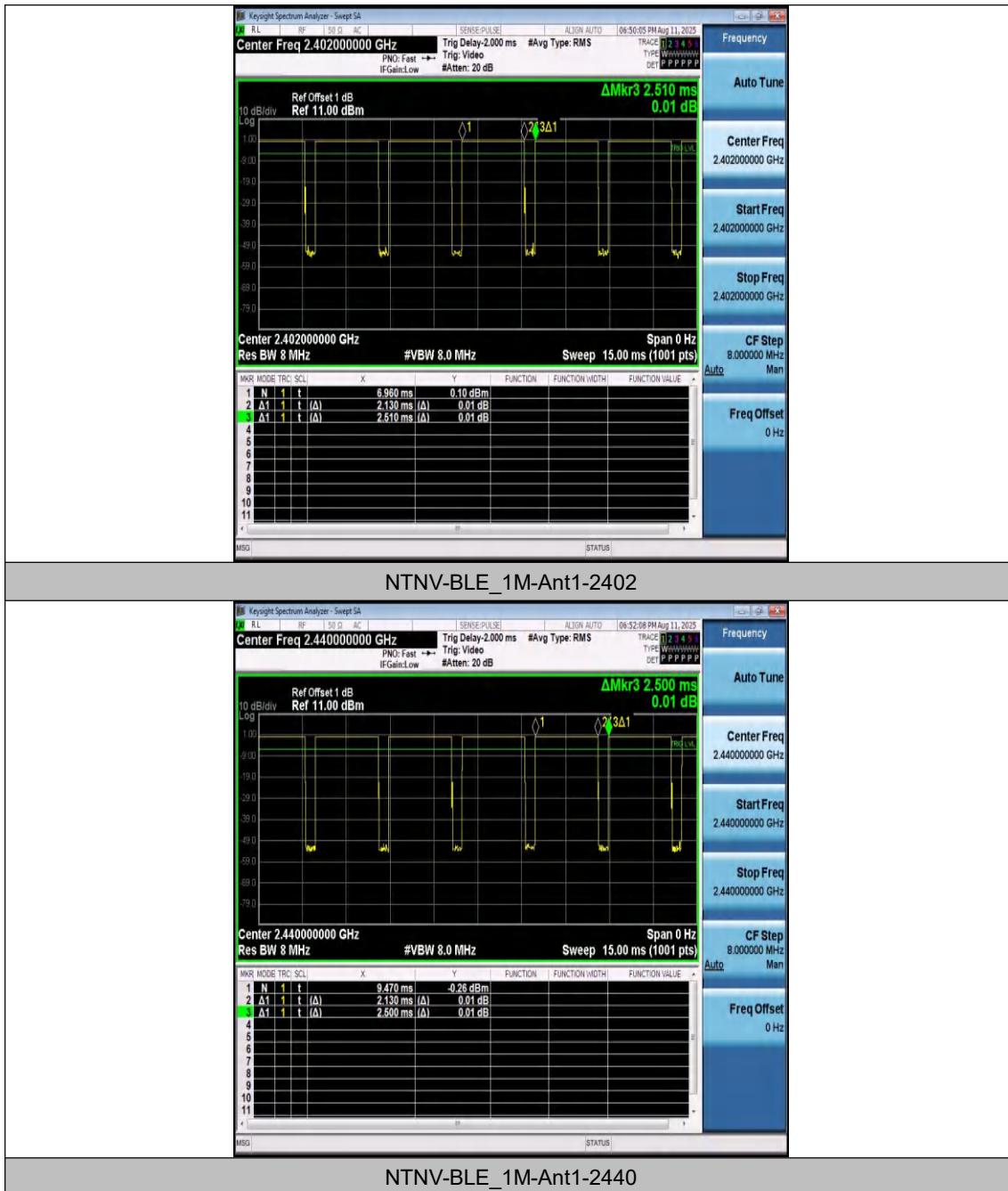
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
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BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.51	43.03	3.66
BLE_2M	Ant1	2480	1.08	2.51	43.03	3.66

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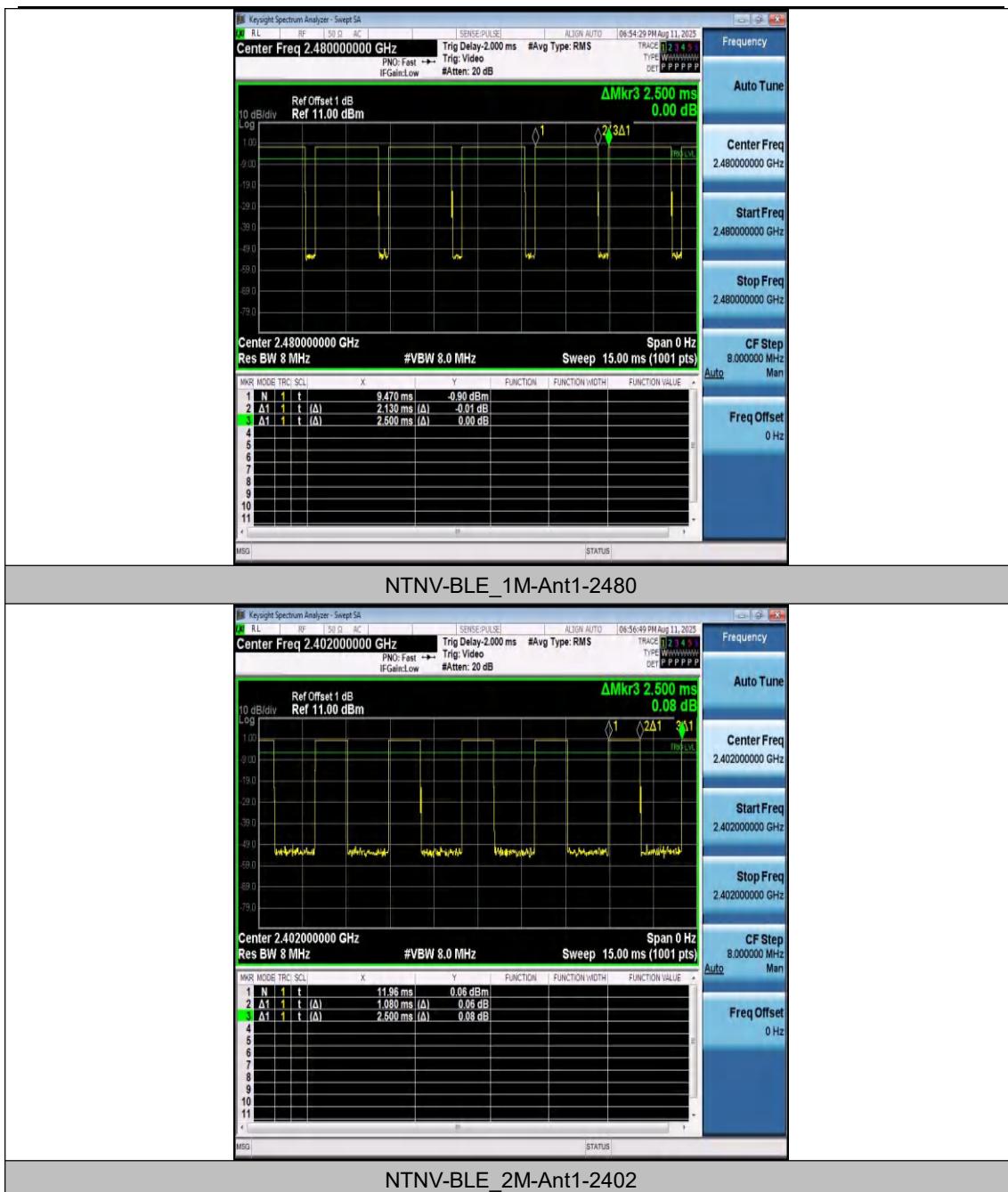
Test Graphs



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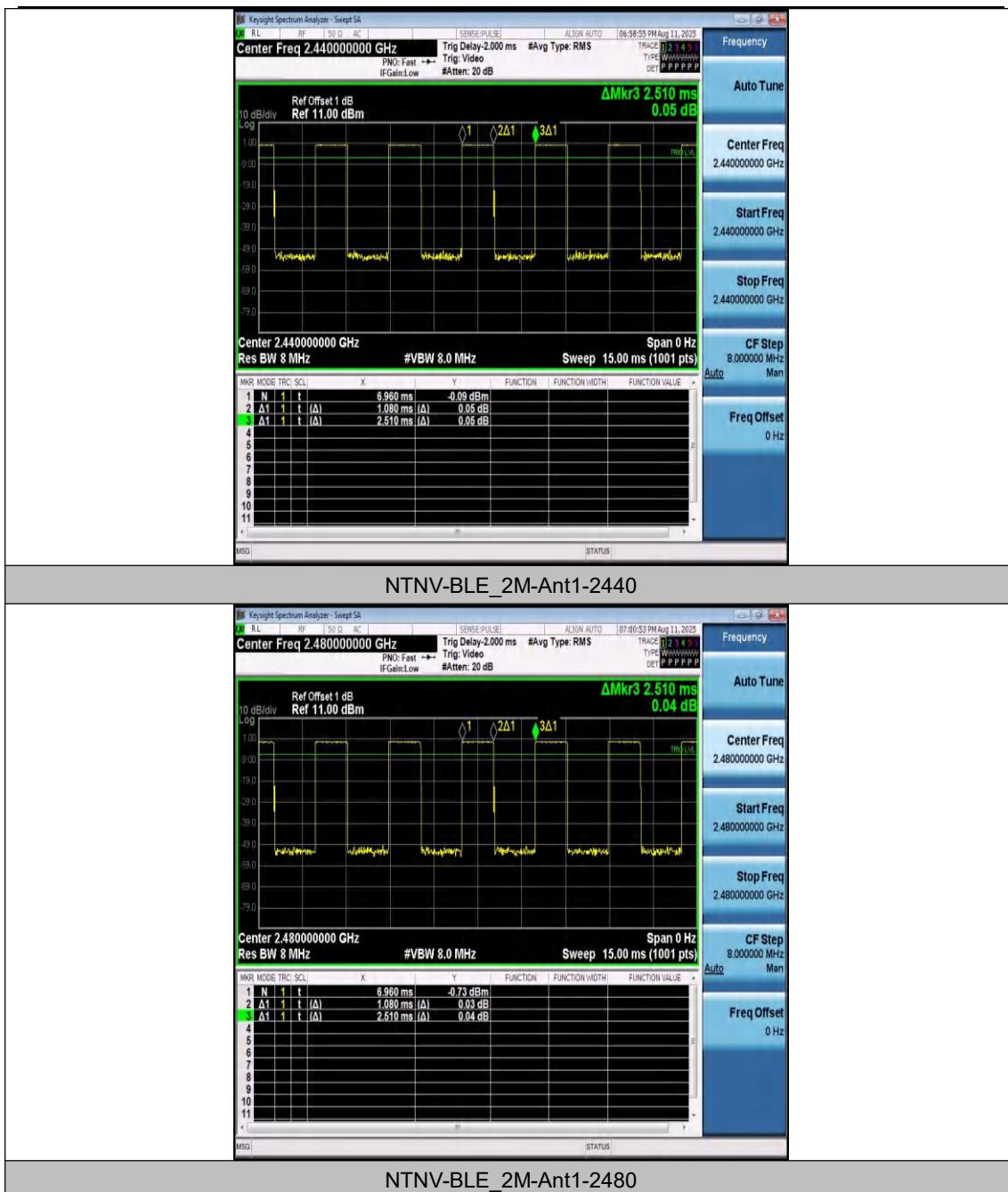
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