

Appendix Test Data

Report No.:	1819C50089912502	Test Sample No.:	1-2-2
Start Test Date:	2025-08-18	Finish Test Date:	2025-08-18
Test Engineer:	<i>Aless Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.3°C	Relative Humidity:	55%
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	0.660	2401.684	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.712	2439.644	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.680	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.448	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.220	2439.384	2440.604	0.5	PASS
BLE_2M	Ant1	2480	1.144	2479.444	2480.588	0.5	PASS

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	1.0292	2401.5082	2402.5374	---	---
BLE_1M	Ant1	2440	1.0312	2439.5087	2440.5399	---	---
BLE_1M	Ant1	2480	1.0306	2479.5058	2480.5364	---	---
BLE_2M	Ant1	2402	2.0732	2400.9923	2403.0655	---	---
BLE_2M	Ant1	2440	2.0837	2438.9832	2441.0669	---	---
BLE_2M	Ant1	2480	2.0803	2478.9878	2481.0681	---	---

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Test Graphs



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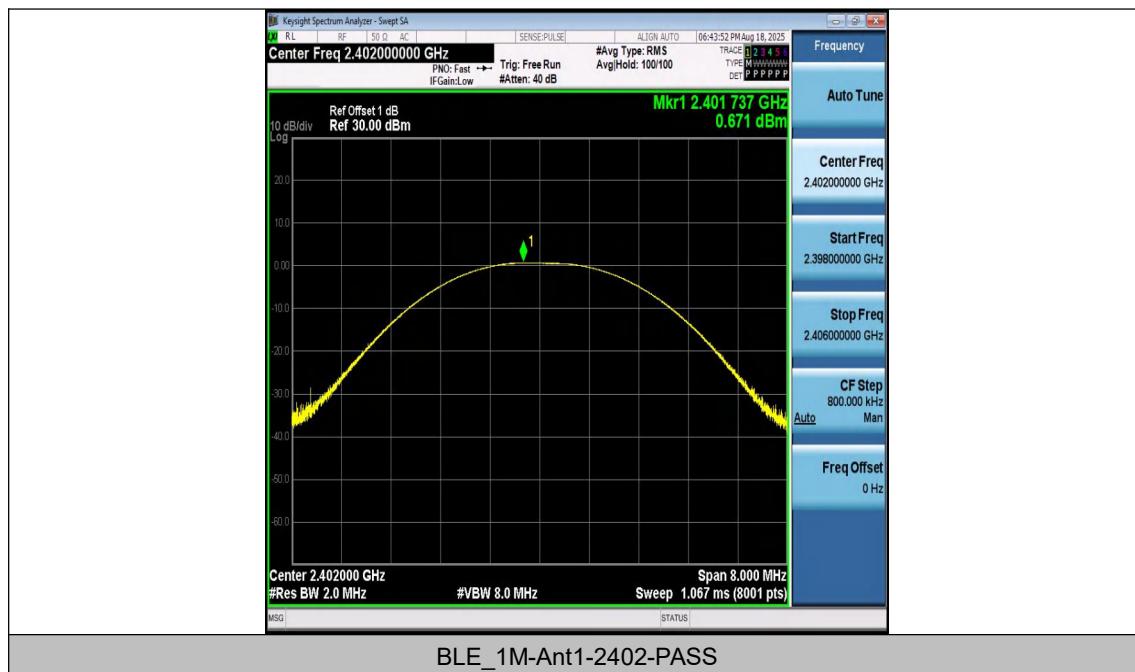
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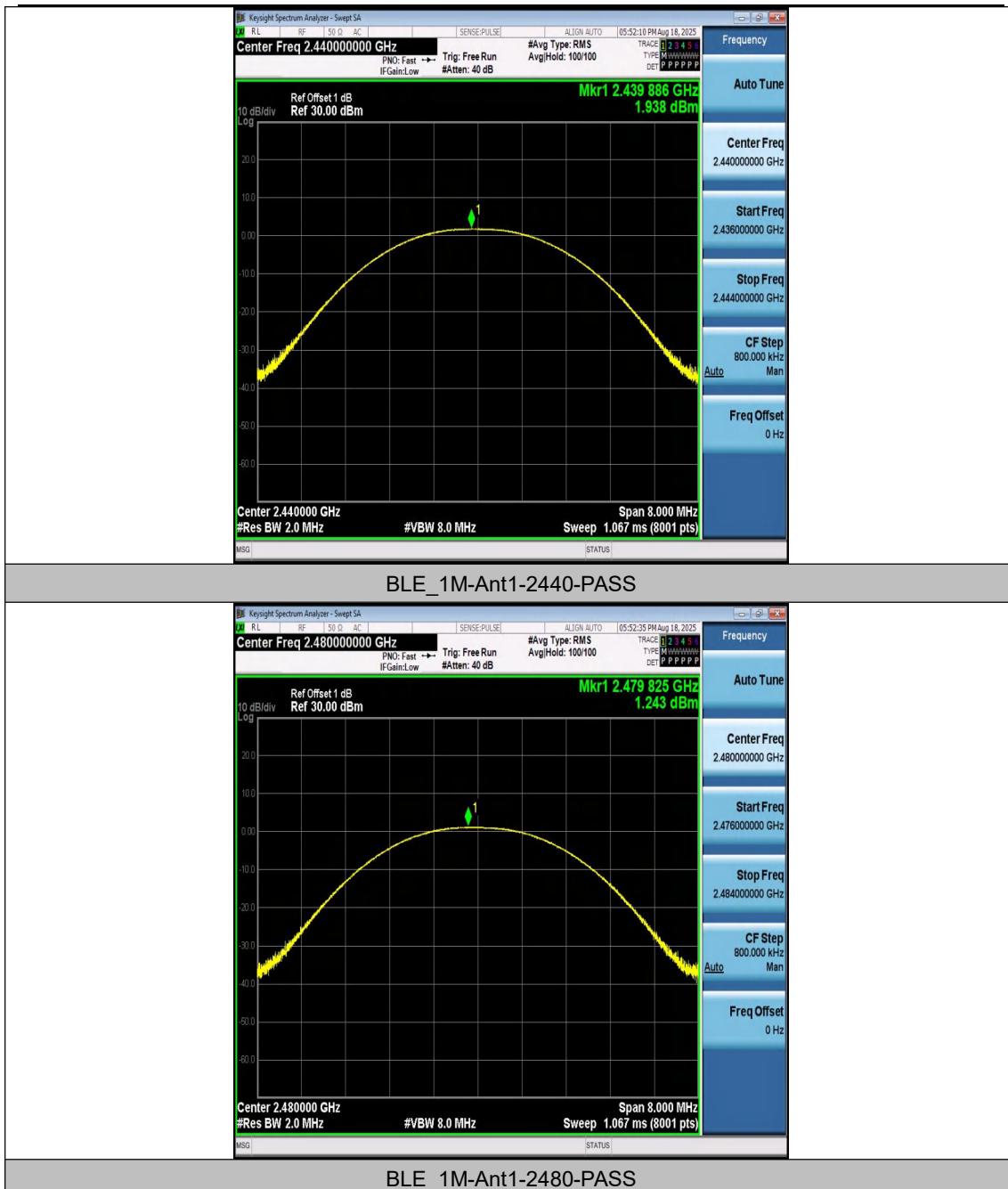
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.67	≤30	PASS
BLE_1M	Ant1	2440	1.94	≤30	PASS
BLE_1M	Ant1	2480	1.24	≤30	PASS
BLE_2M	Ant1	2402	0.93	≤30	PASS
BLE_2M	Ant1	2440	1.54	≤30	PASS
BLE_2M	Ant1	2480	0.84	≤30	PASS

Test Graphs Peak

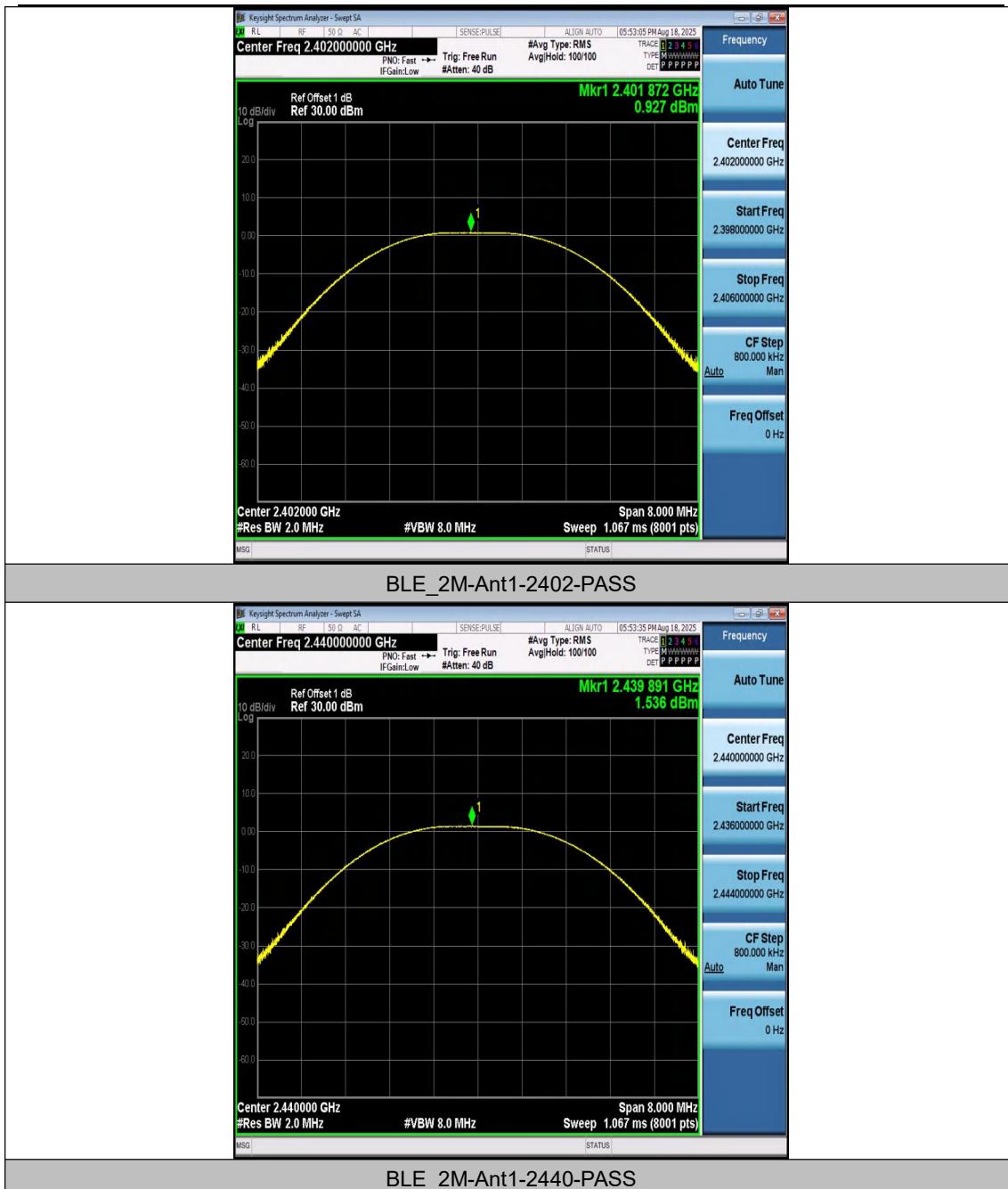




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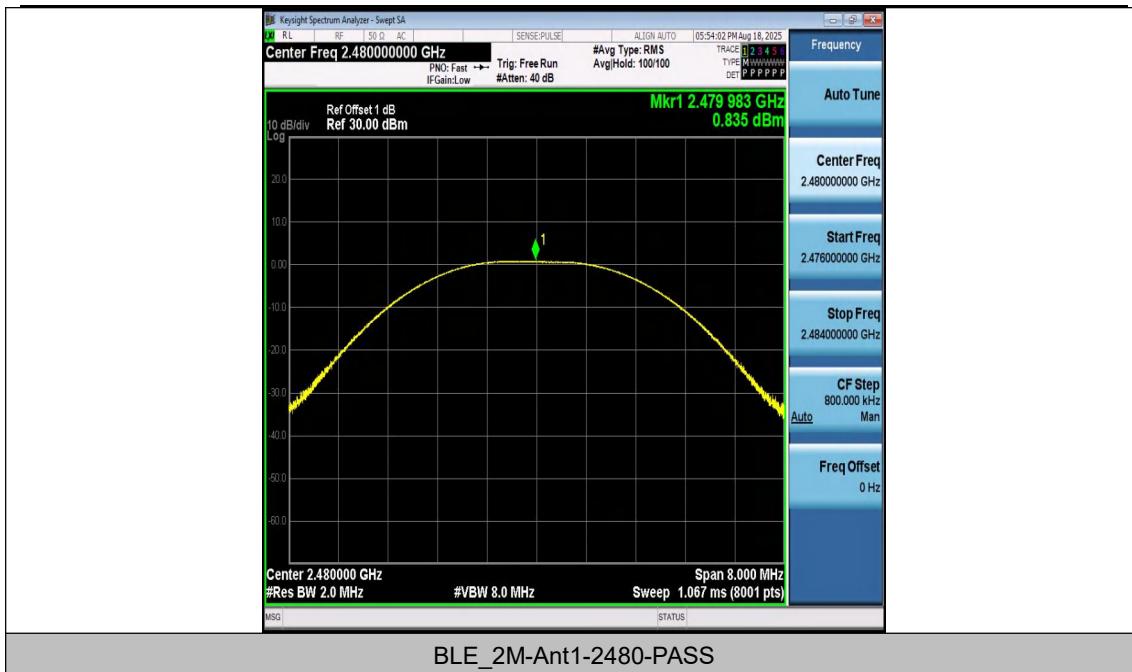
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Appendix D: Maximum power spectral density

Test Result

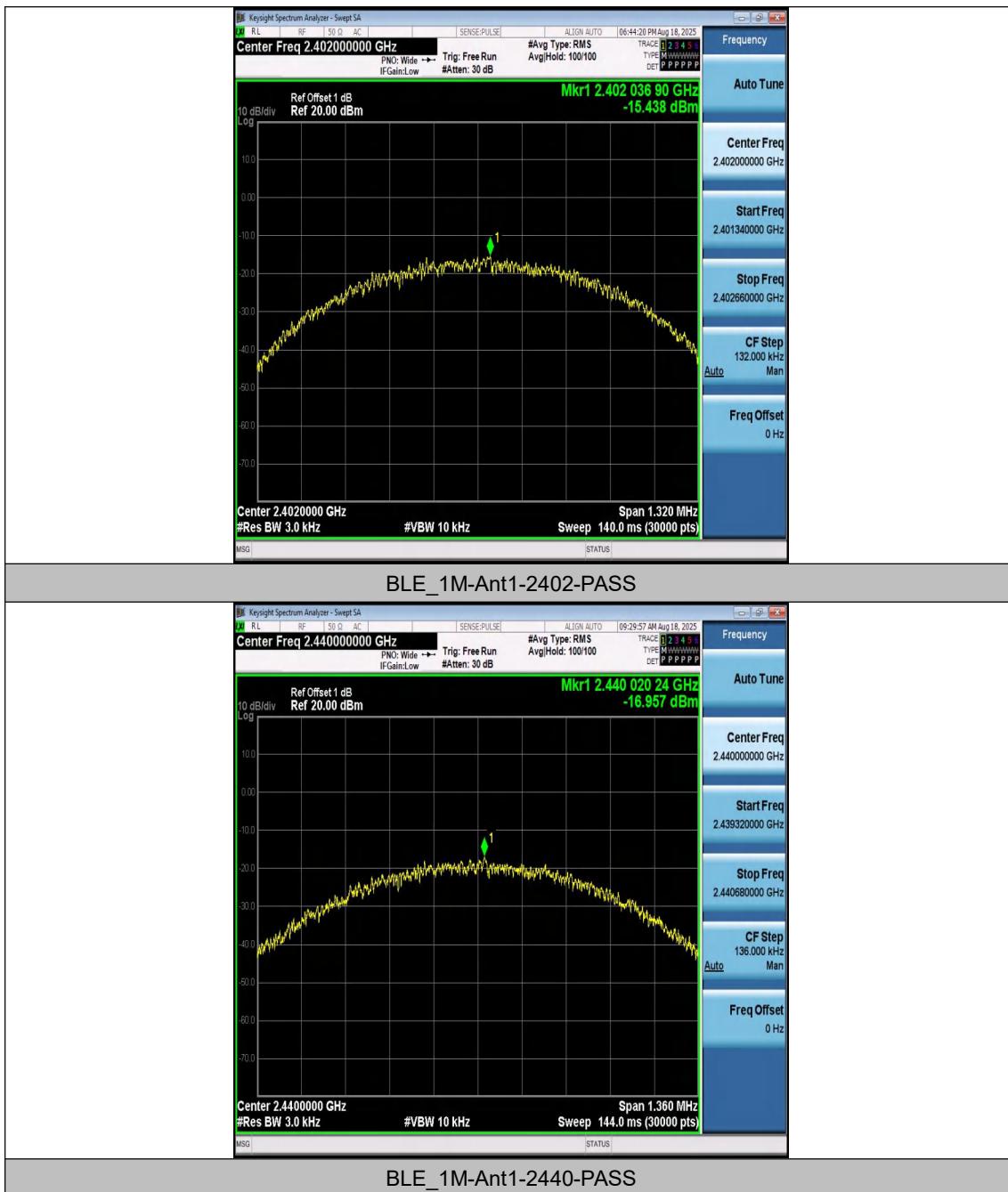
TestMode	Antenna	Frequency[MHz]	Result [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.44	≤8.00	PASS
BLE_1M	Ant1	2440	-16.96	≤8.00	PASS
BLE_1M	Ant1	2480	-18.17	≤8.00	PASS
BLE_2M	Ant1	2402	-20.16	≤8.00	PASS
BLE_2M	Ant1	2440	-20.57	≤8.00	PASS
BLE_2M	Ant1	2480	-21.44	≤8.00	PASS

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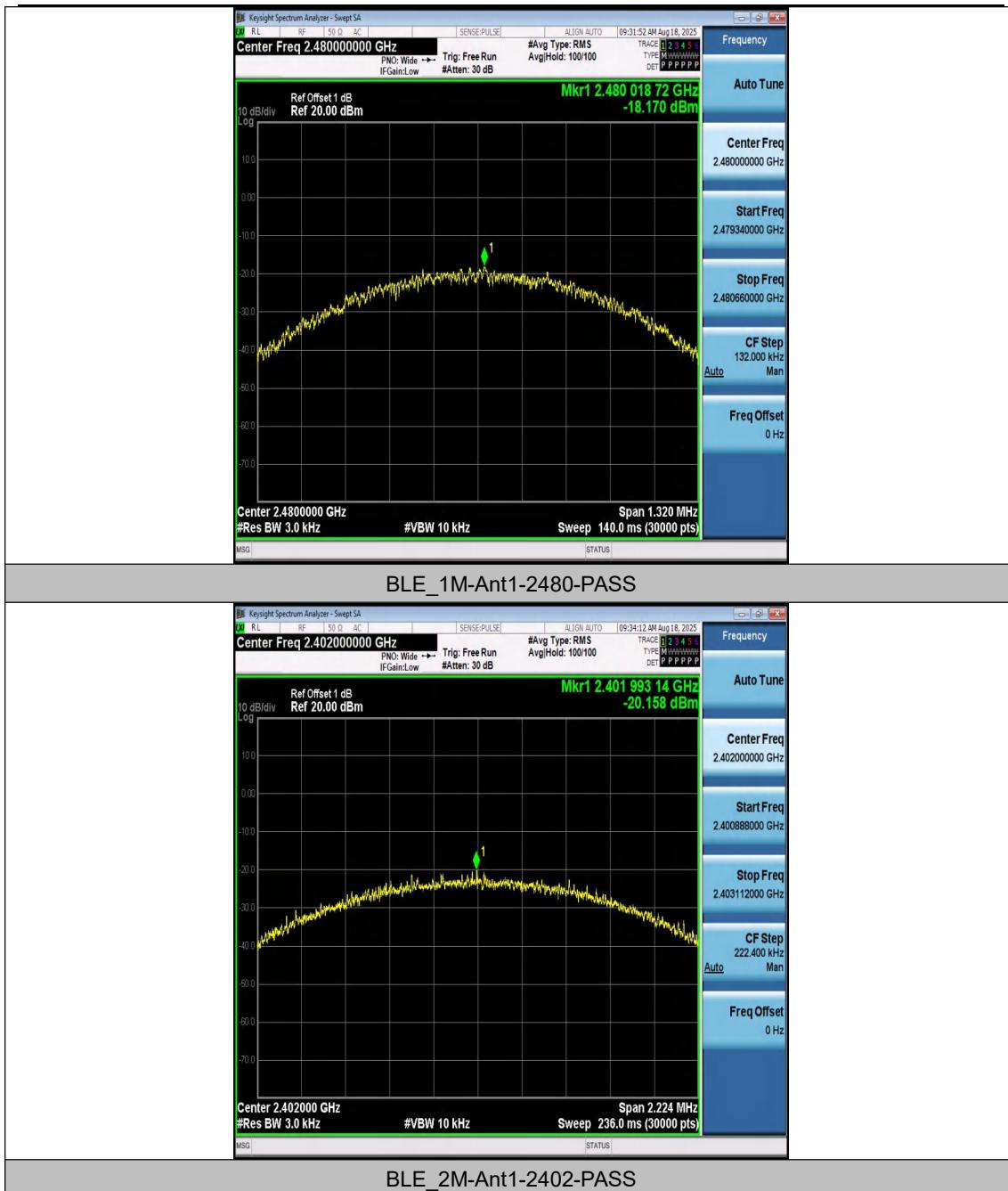
Test Graphs



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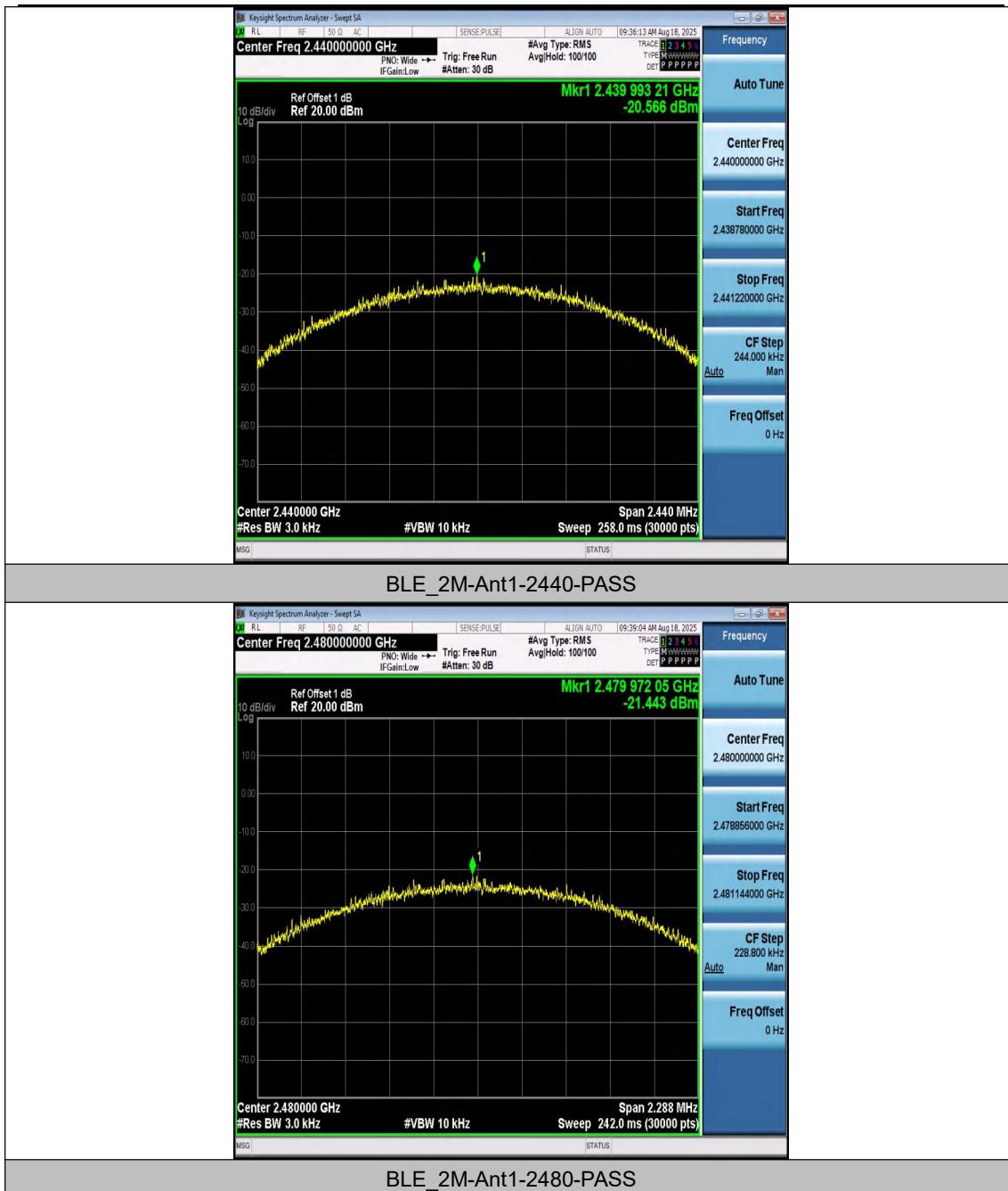
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.37	-48.24	≤-20.37	PASS
BLE_1M	Ant1	High	2480	-2.85	-51.23	≤-22.85	PASS
BLE_2M	Ant1	Low	2402	-3.55	-37.22	≤-23.55	PASS
BLE_2M	Ant1	High	2480	-3.27	-47.28	≤-23.27	PASS

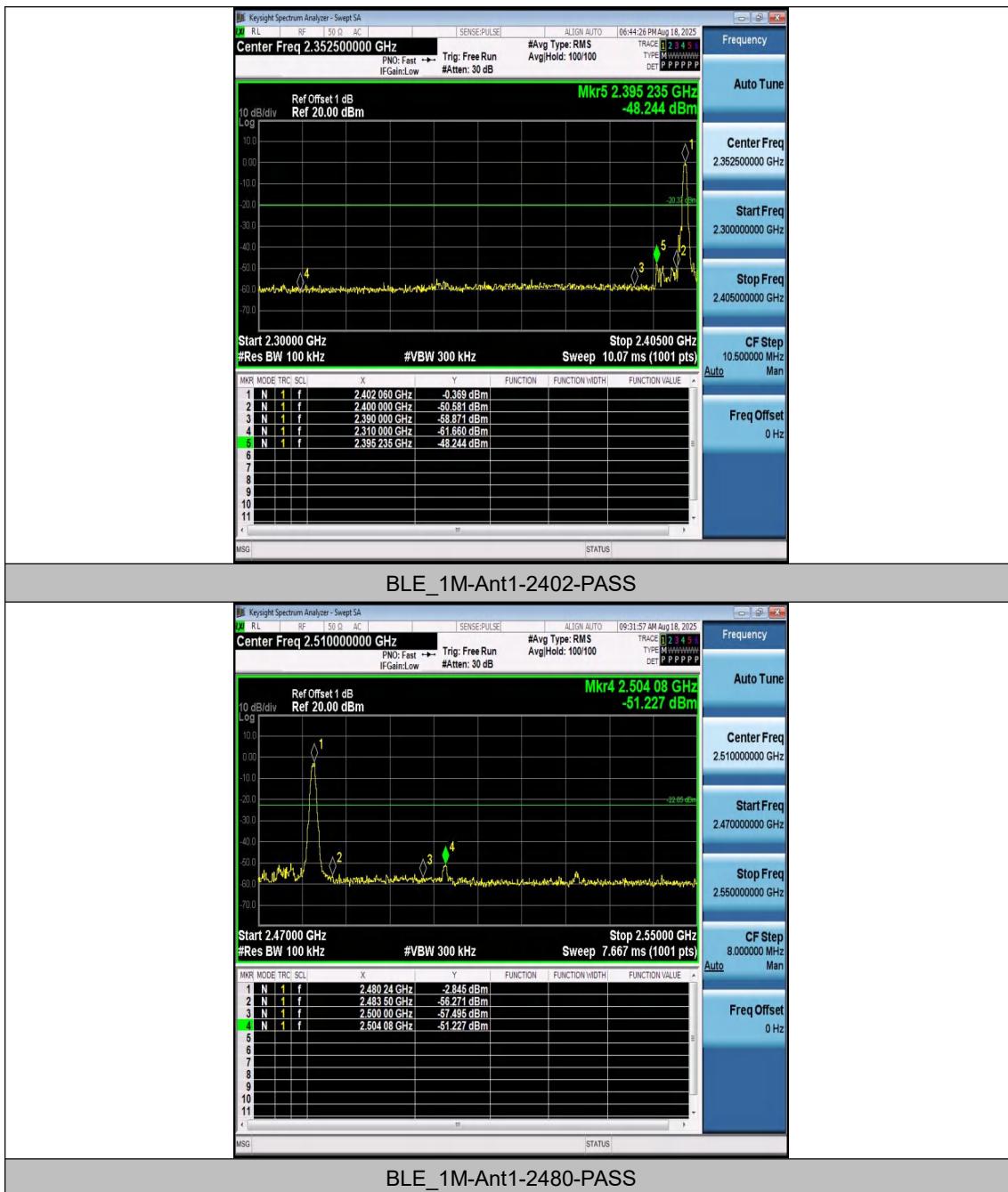
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

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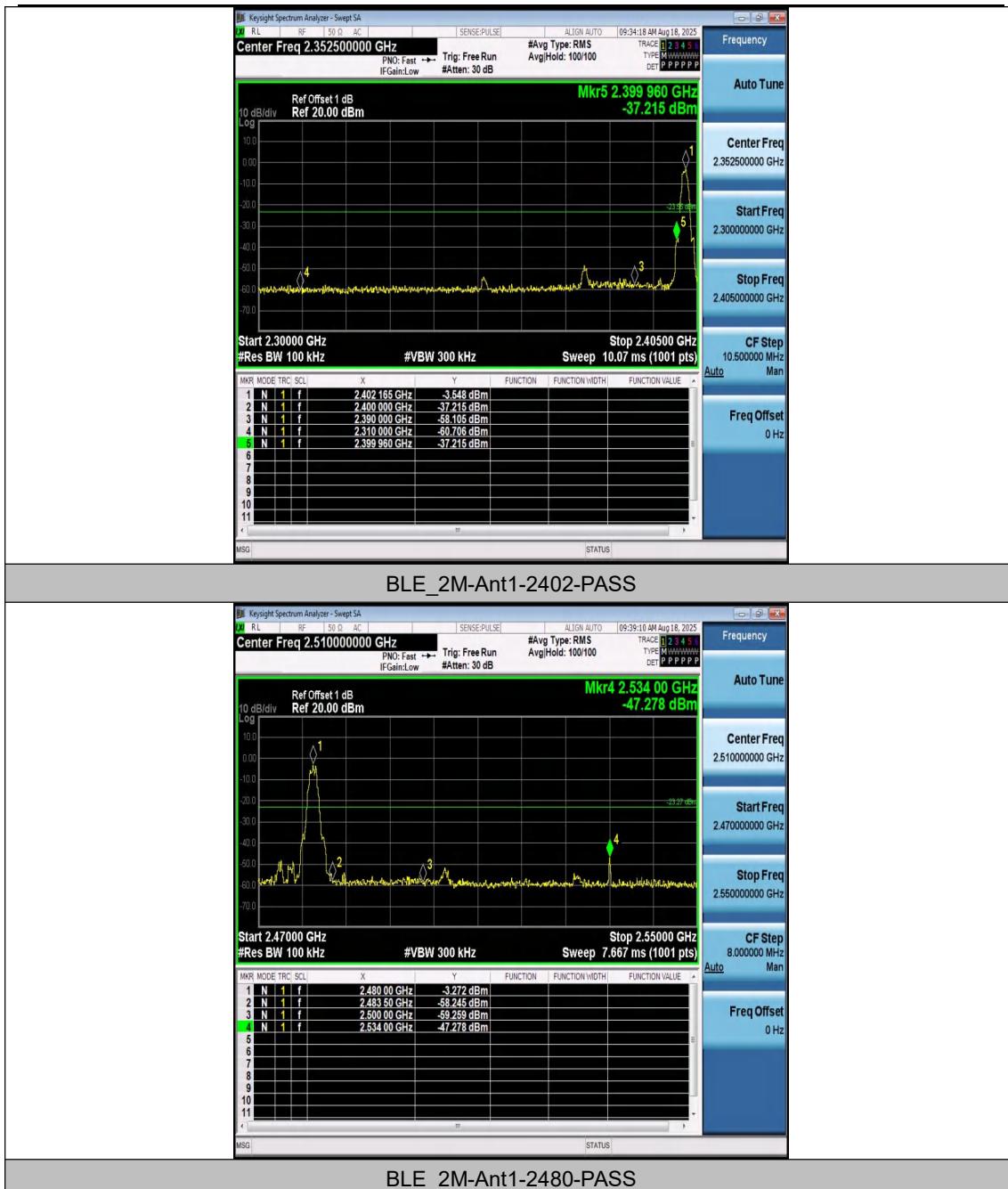
Test Graphs



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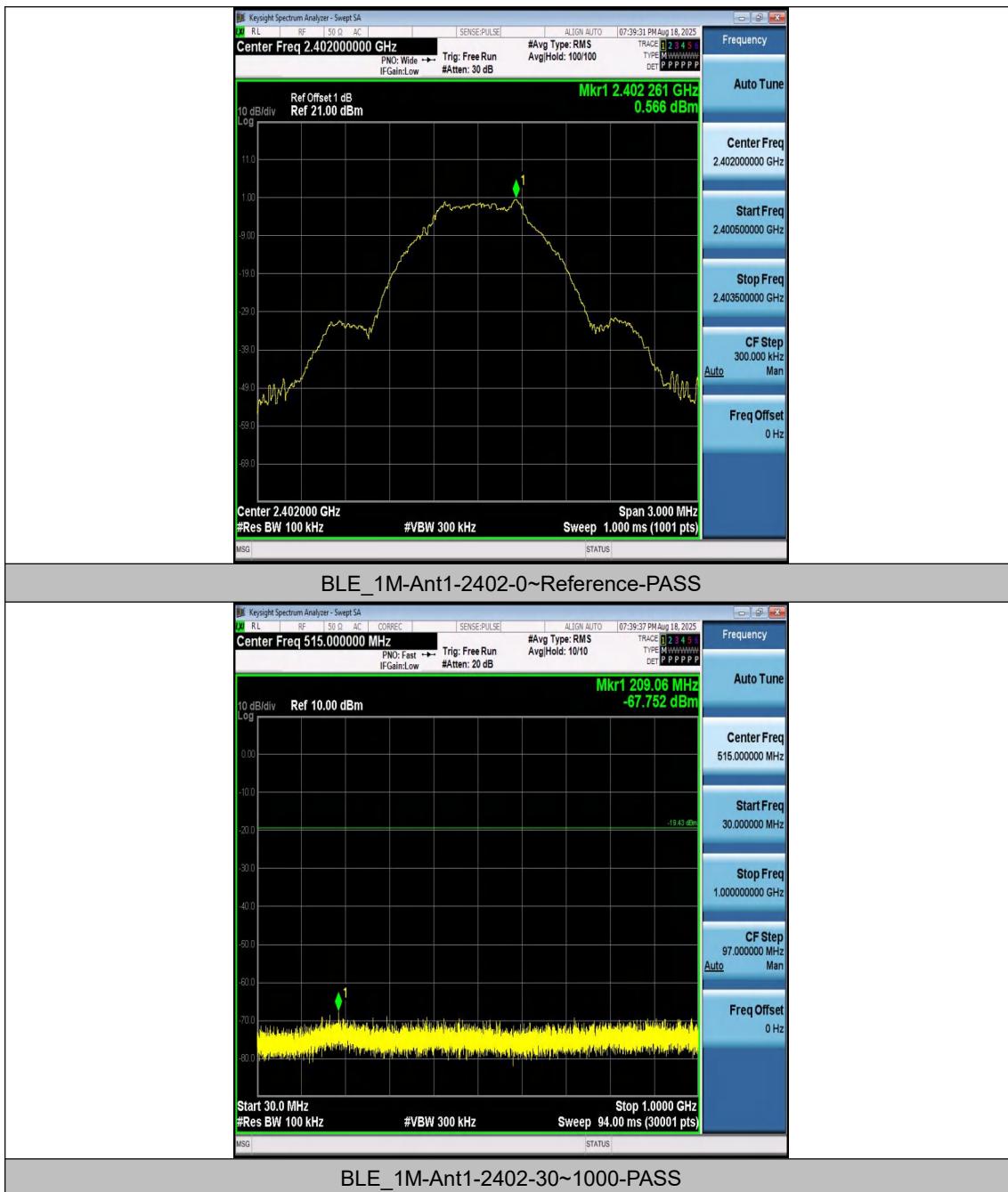
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.57	0.57	---	PASS
BLE_1M	Ant1	2402	30~1000	0.57	-67.75	≤-19.43	PASS
BLE_1M	Ant1	2402	1000~26500	0.57	-44.43	≤-19.43	PASS
BLE_1M	Ant1	2440	0~Reference	0.08	0.08	---	PASS
BLE_1M	Ant1	2440	30~1000	0.08	-67.97	≤-19.92	PASS
BLE_1M	Ant1	2440	1000~26500	0.08	-44.65	≤-19.92	PASS
BLE_1M	Ant1	2480	0~Reference	-2.70	-2.70	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.70	-54.05	≤-22.7	PASS
BLE_1M	Ant1	2480	1000~26500	-2.70	-41.07	≤-22.7	PASS
BLE_2M	Ant1	2402	0~Reference	-1.86	-1.86	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.86	-60.09	≤-21.86	PASS
BLE_2M	Ant1	2402	1000~26500	-1.86	-45.47	≤-21.86	PASS
BLE_2M	Ant1	2440	0~Reference	-3.35	-3.35	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.35	-58.71	≤-23.35	PASS
BLE_2M	Ant1	2440	1000~26500	-3.35	-40.97	≤-23.35	PASS
BLE_2M	Ant1	2480	0~Reference	-3.14	-3.14	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.14	-59.86	≤-23.14	PASS
BLE_2M	Ant1	2480	1000~26500	-3.14	-43.66	≤-23.14	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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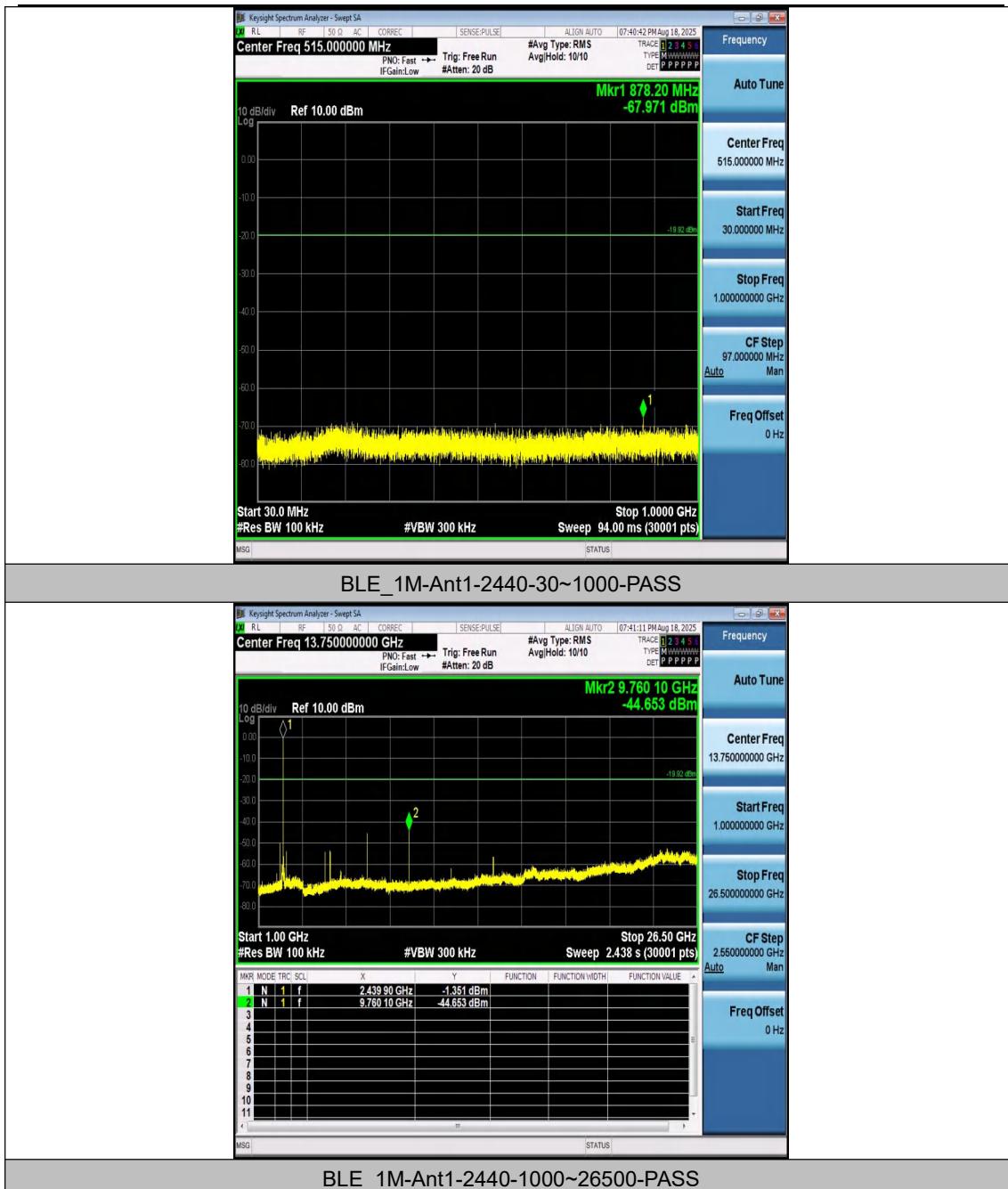
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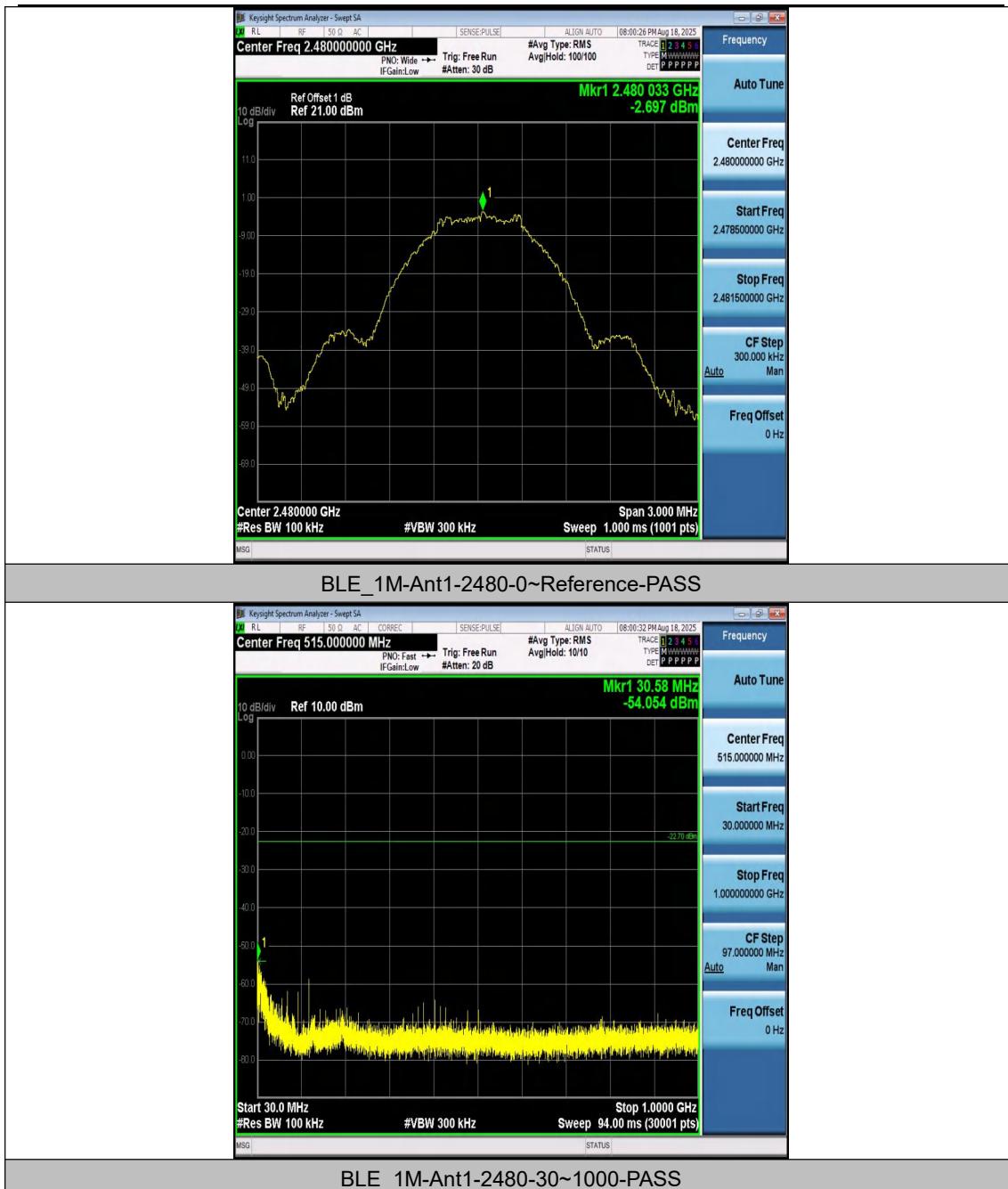
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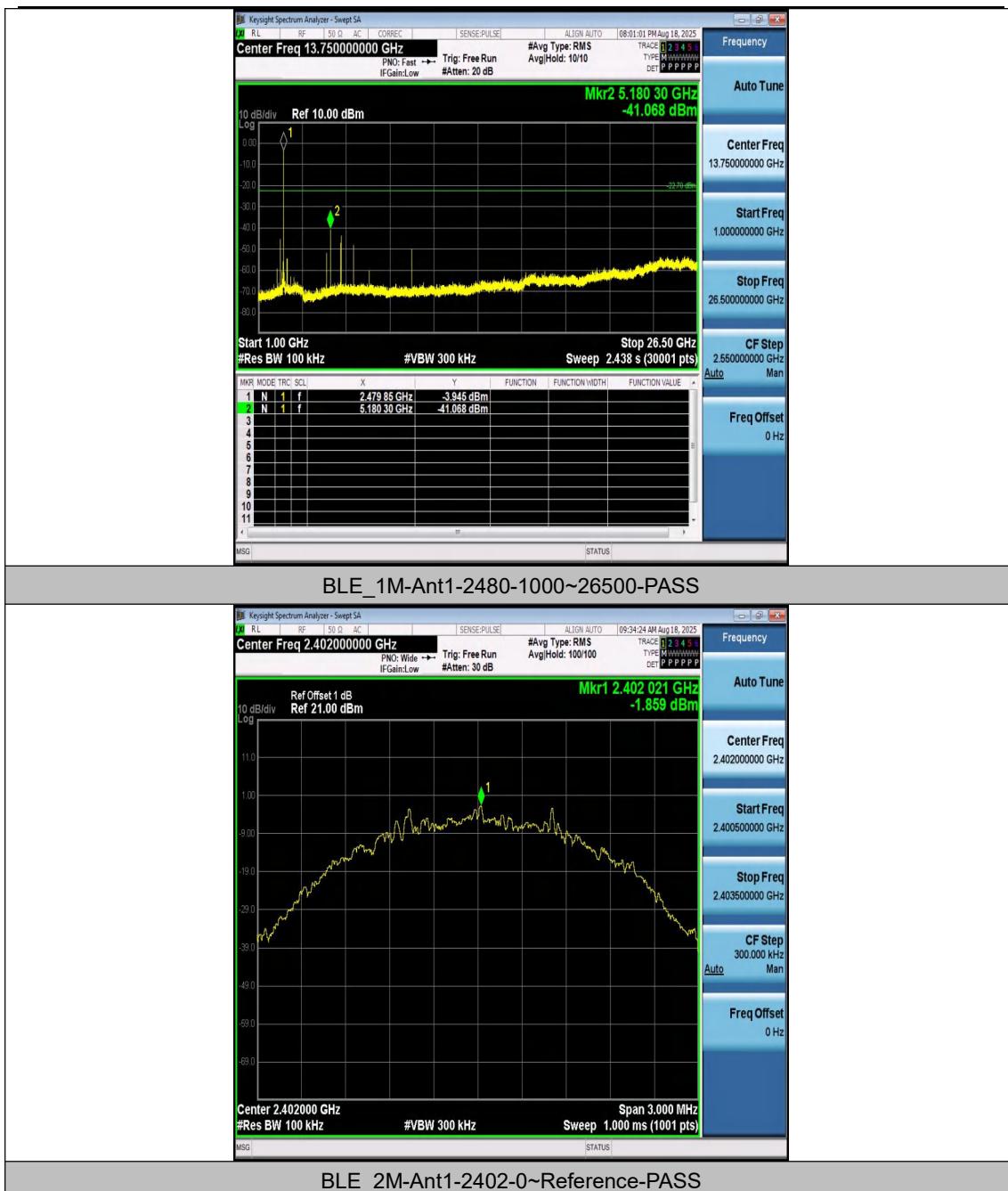
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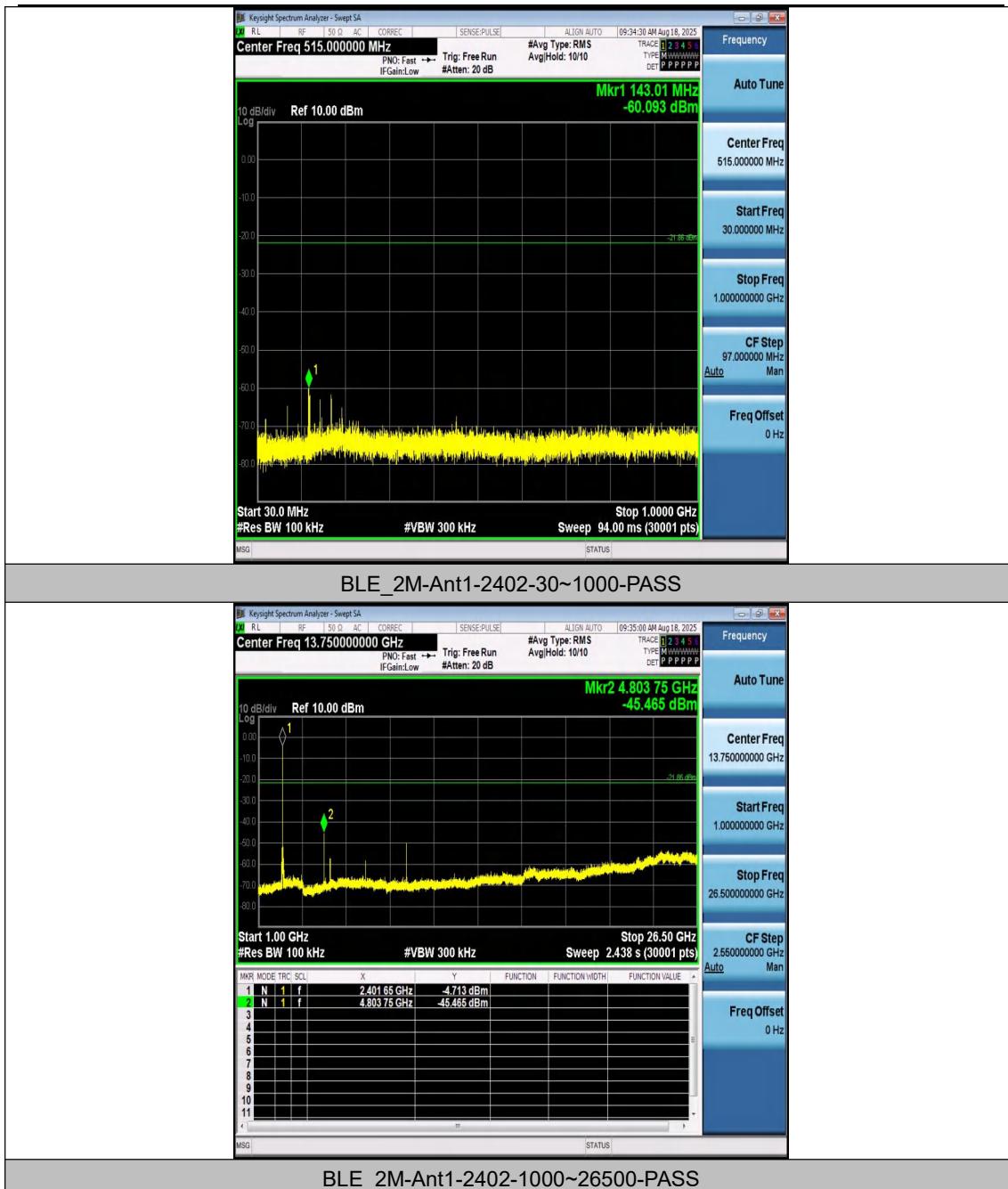
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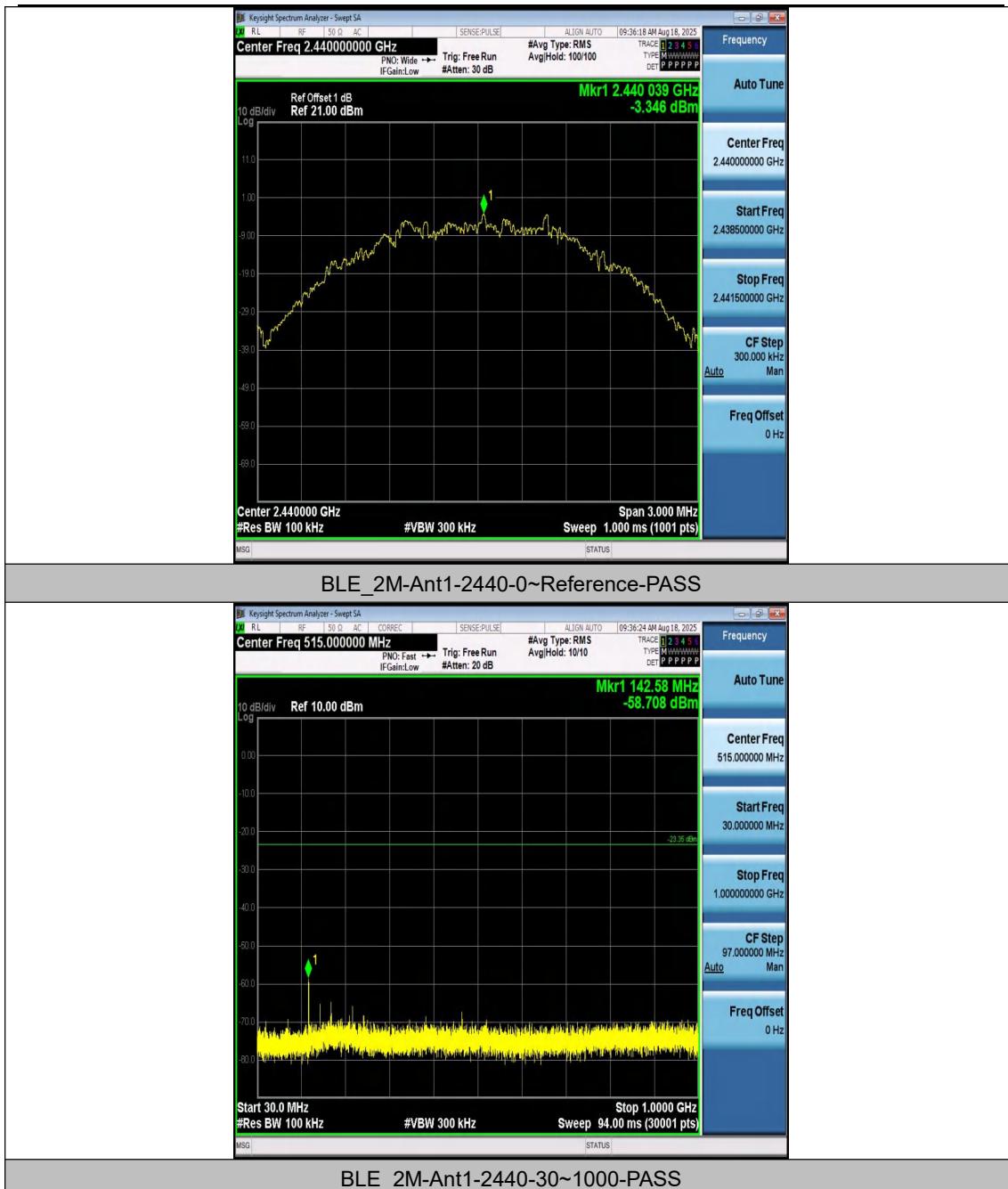
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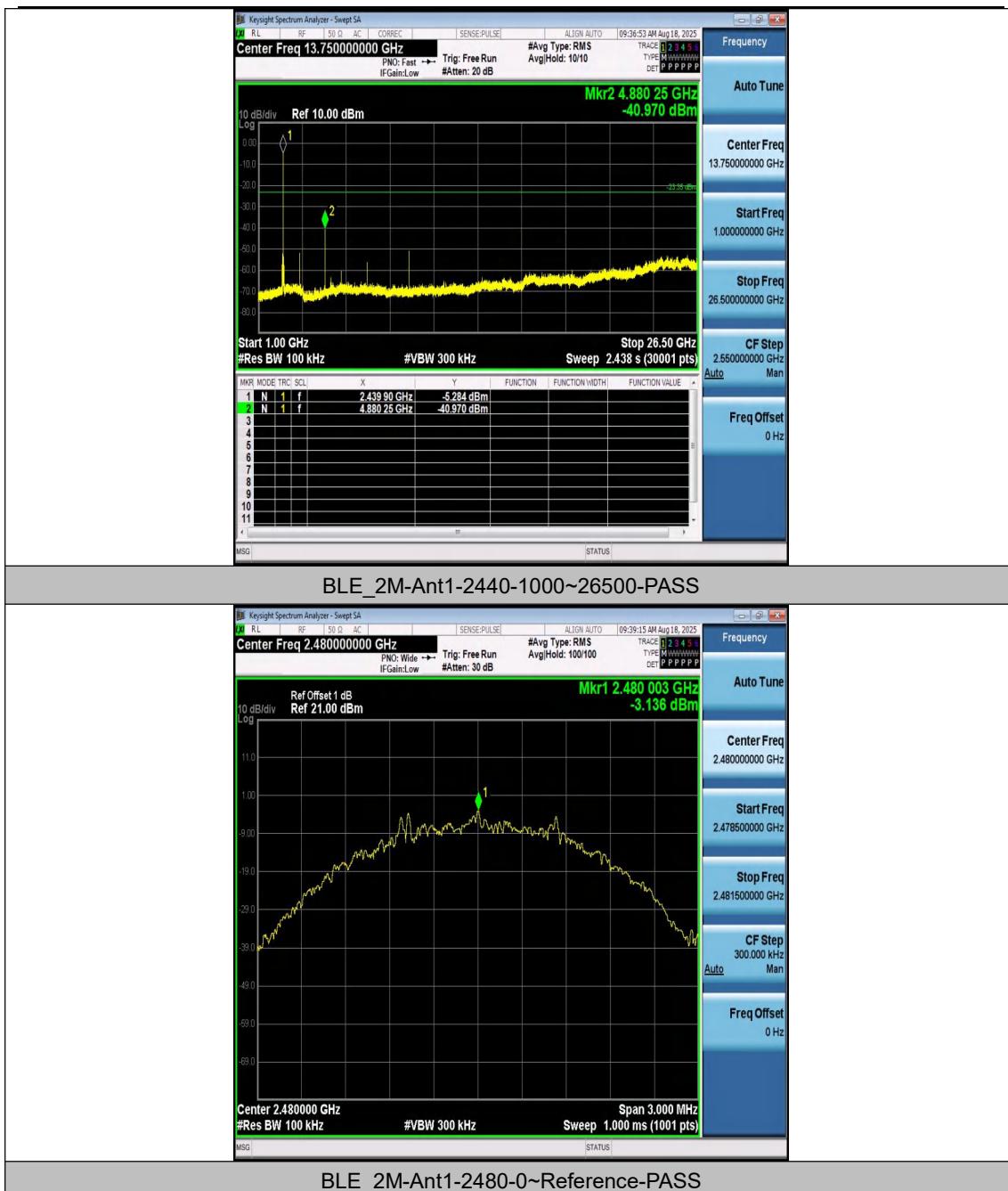
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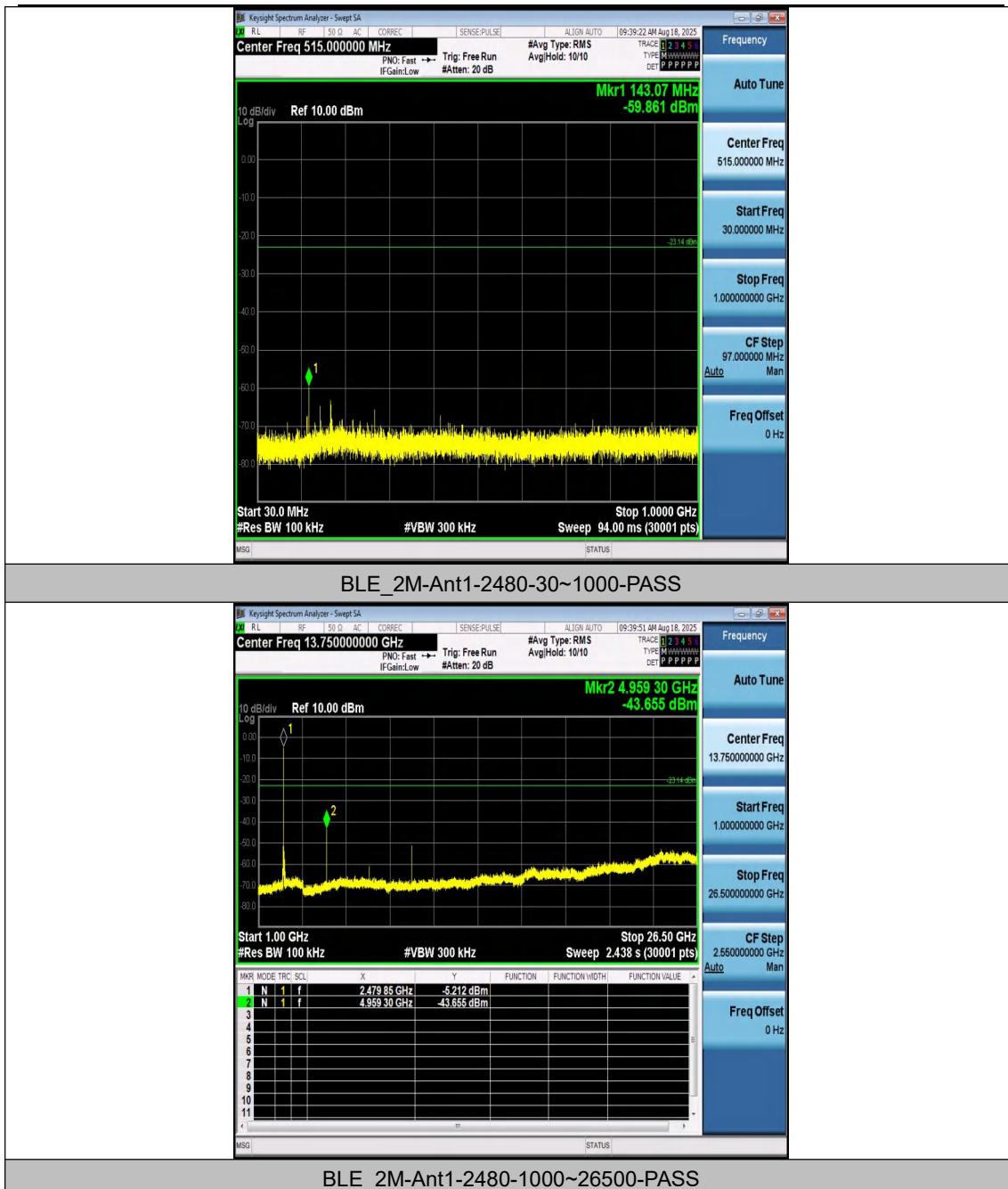
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Appendix G: Duty Cycle

Test Result

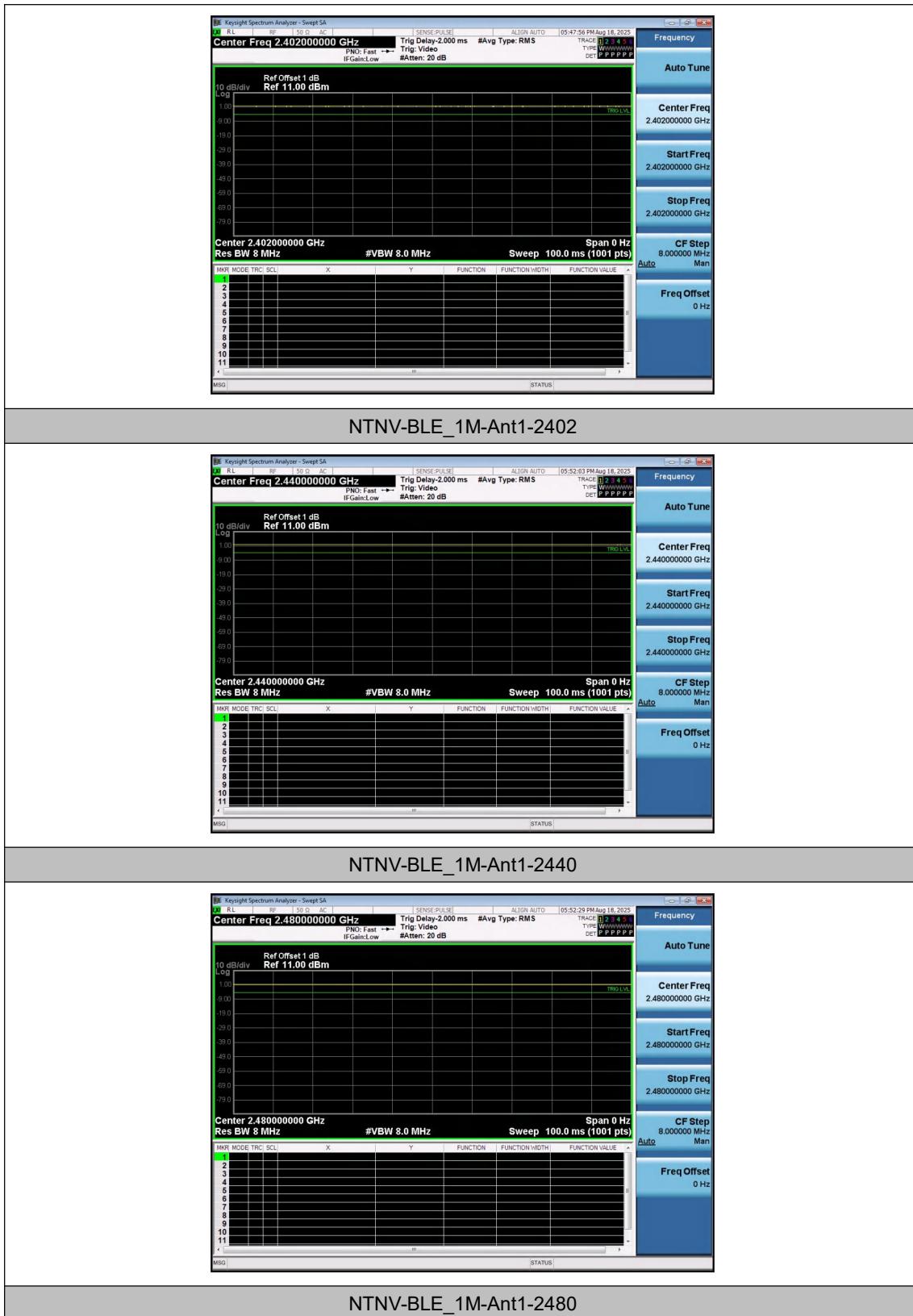
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2480	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2480	100.00	100.00	100.00	0.00

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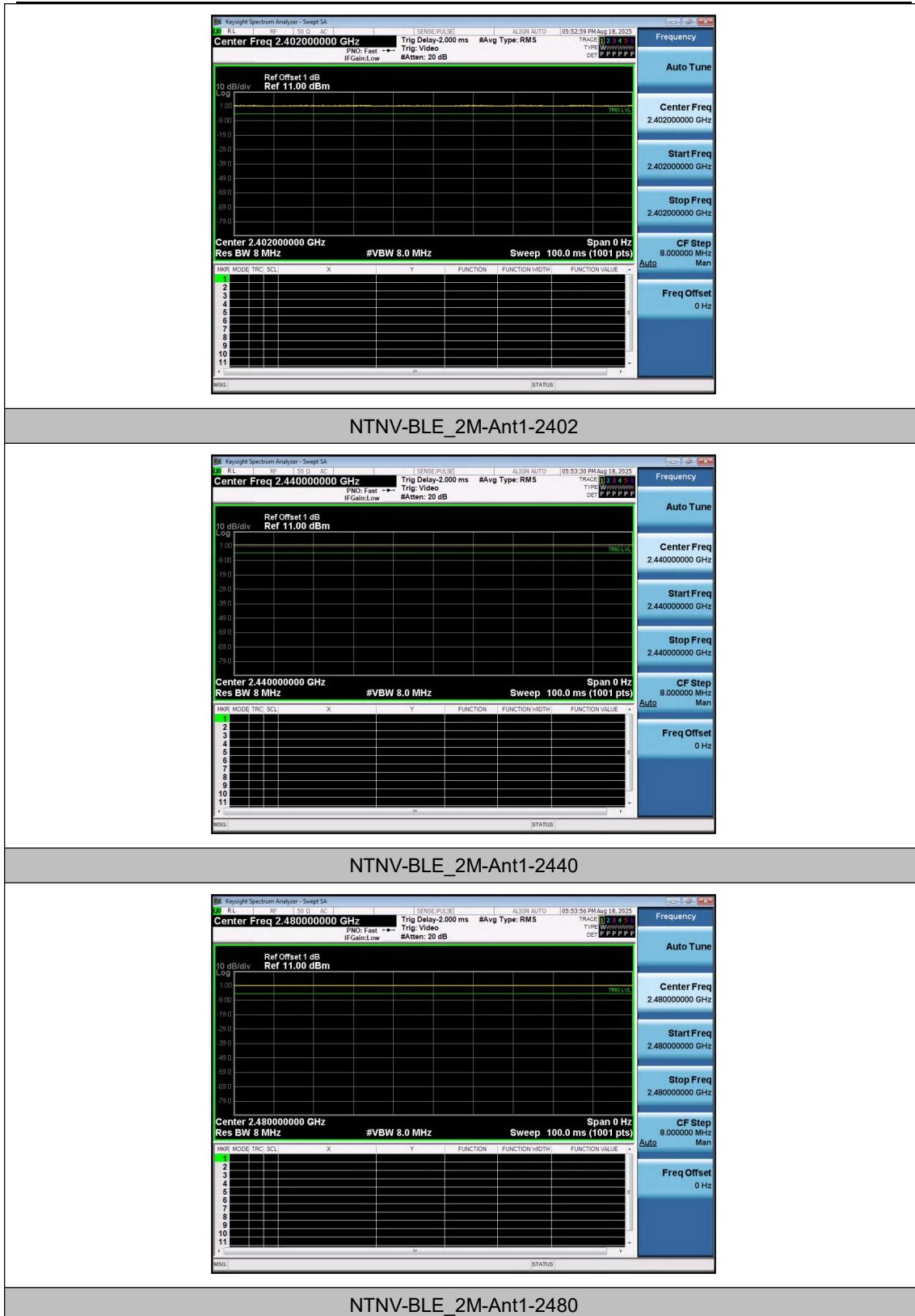
Test Graphs



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