

Appendix Test Data

Report No.:	1813C50281212501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-25	Finish Test Date:	2025-06-25
Test Engineer:	<i>Alex Renz</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.1°C	Relative Humidity:	53%
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	0.684	2401.660	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.656	2440.372	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.692	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.288	2401.368	2402.656	0.5	PASS
BLE_2M	Ant1	2440	1.336	2439.360	2440.696	0.5	PASS
BLE_2M	Ant1	2480	1.336	2479.364	2480.700	0.5	PASS

Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

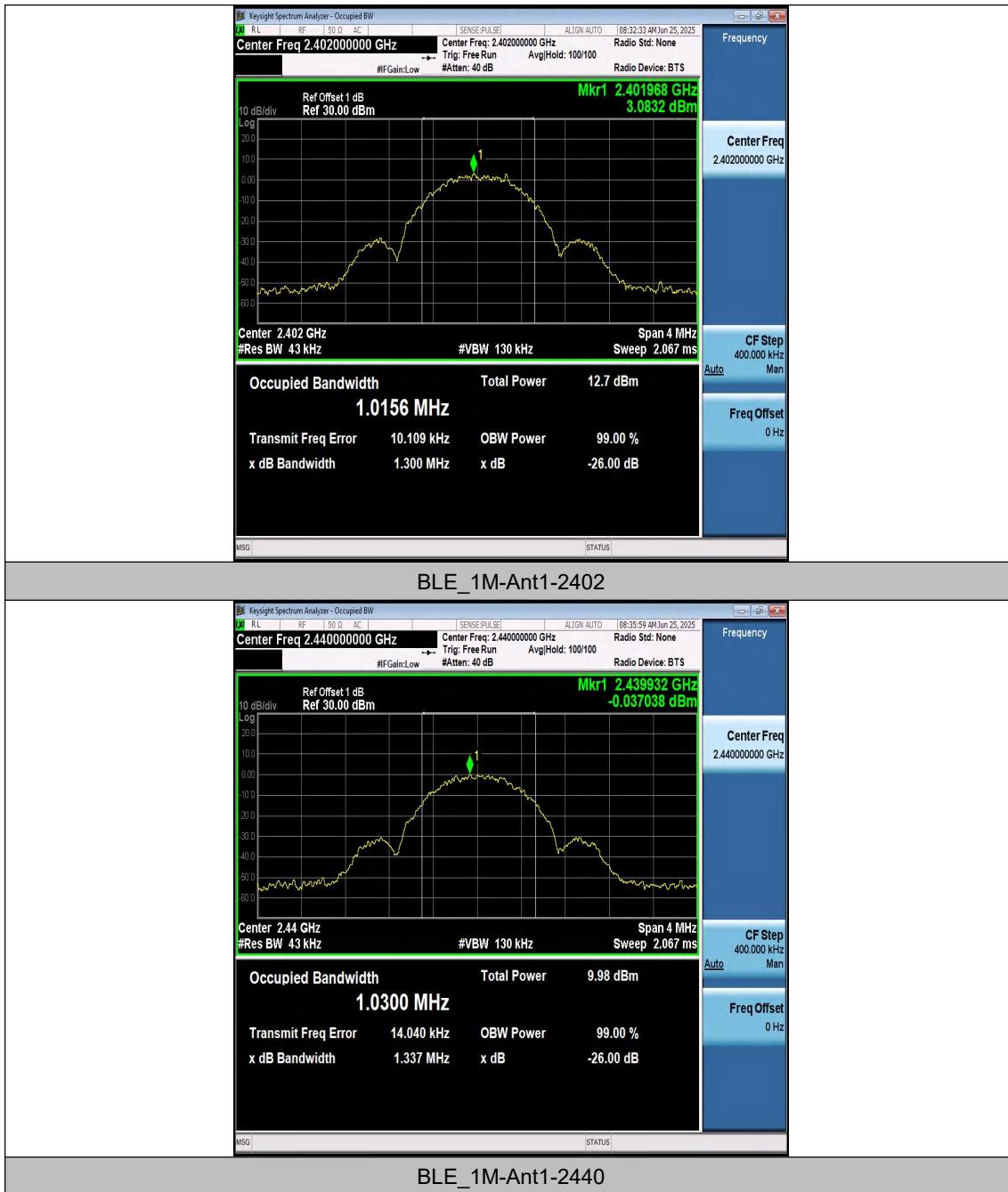
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0156	2401.5023	2402.5179	---	---
BLE_1M	Ant1	2440	1.0300	2439.4990	2440.5290	---	---
BLE_1M	Ant1	2480	1.0234	2479.4989	2480.5223	---	---
BLE_2M	Ant1	2402	2.0724	2400.9790	2403.0514	---	---
BLE_2M	Ant1	2440	2.0495	2438.9922	2441.0417	---	---
BLE_2M	Ant1	2480	2.0727	2478.9647	2481.0374	---	---

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Test Graphs



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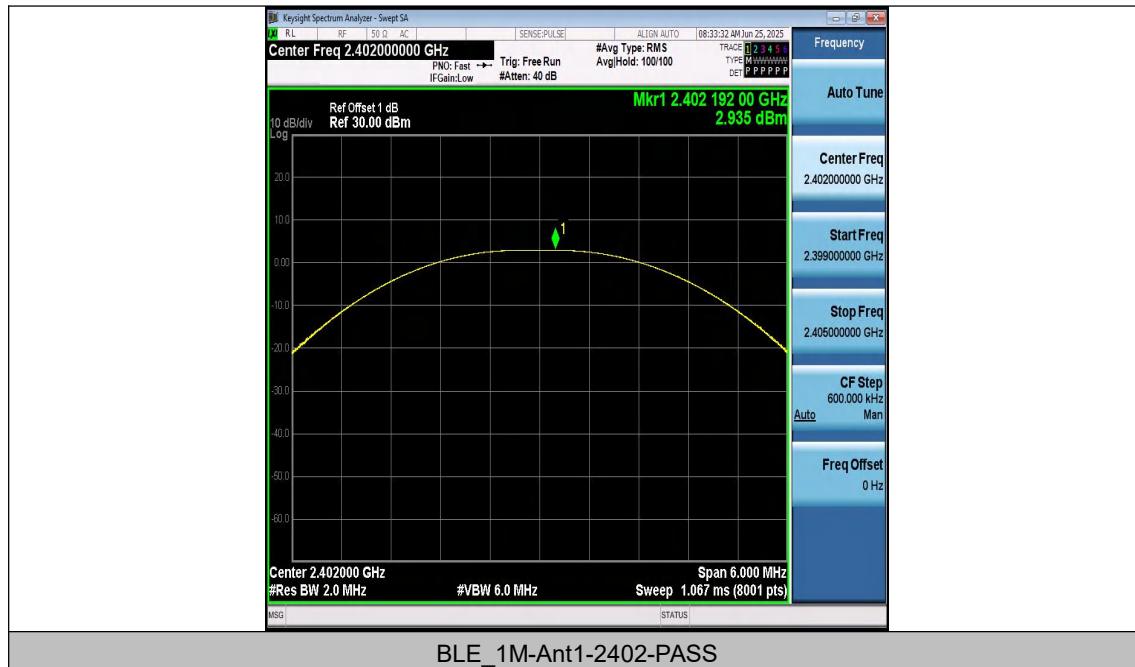
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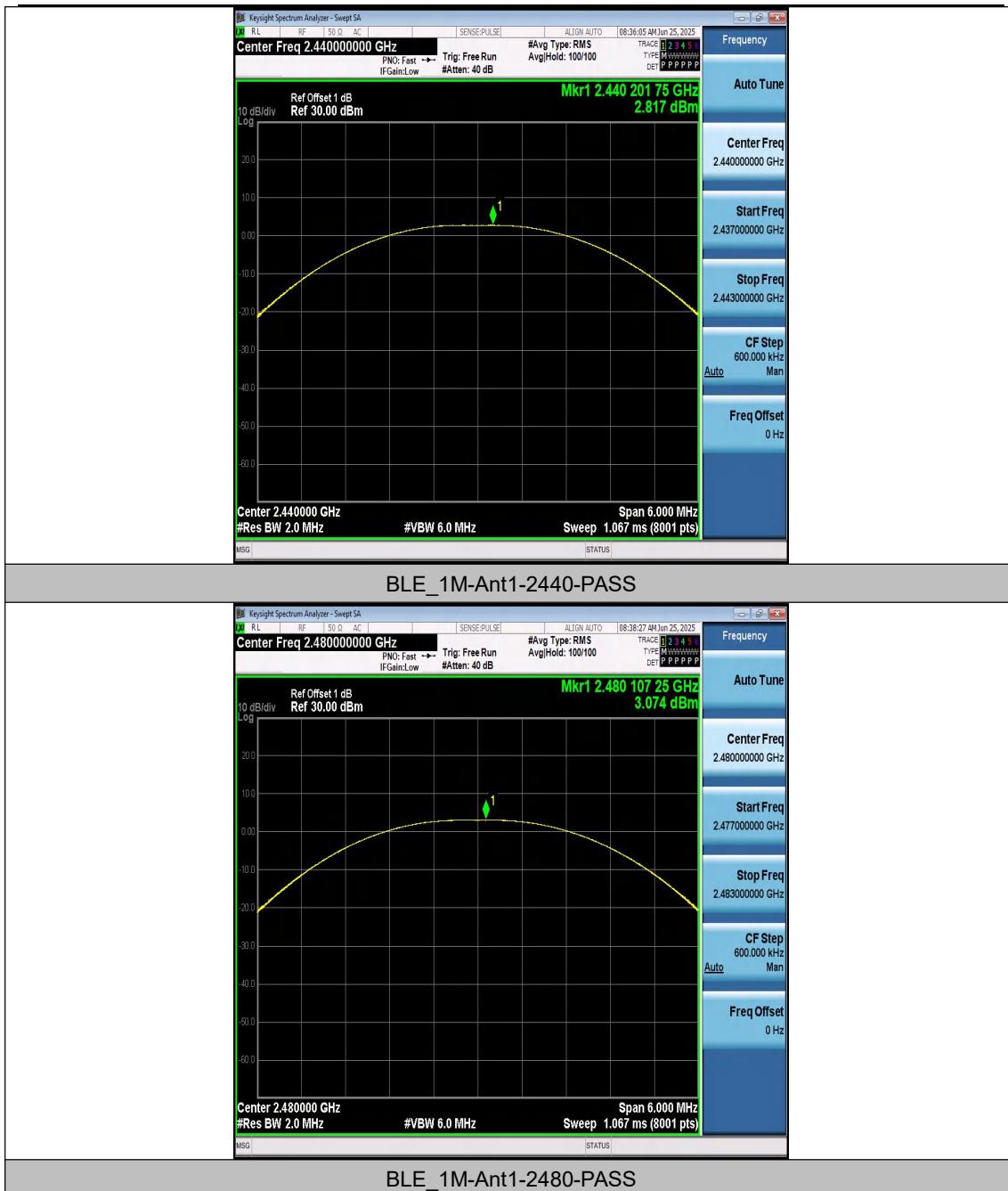
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.94	≤30	PASS
BLE_1M	Ant1	2440	2.82	≤30	PASS
BLE_1M	Ant1	2480	3.07	≤30	PASS
BLE_2M	Ant1	2402	2.96	≤30	PASS
BLE_2M	Ant1	2440	2.84	≤30	PASS
BLE_2M	Ant1	2480	3.07	≤30	PASS

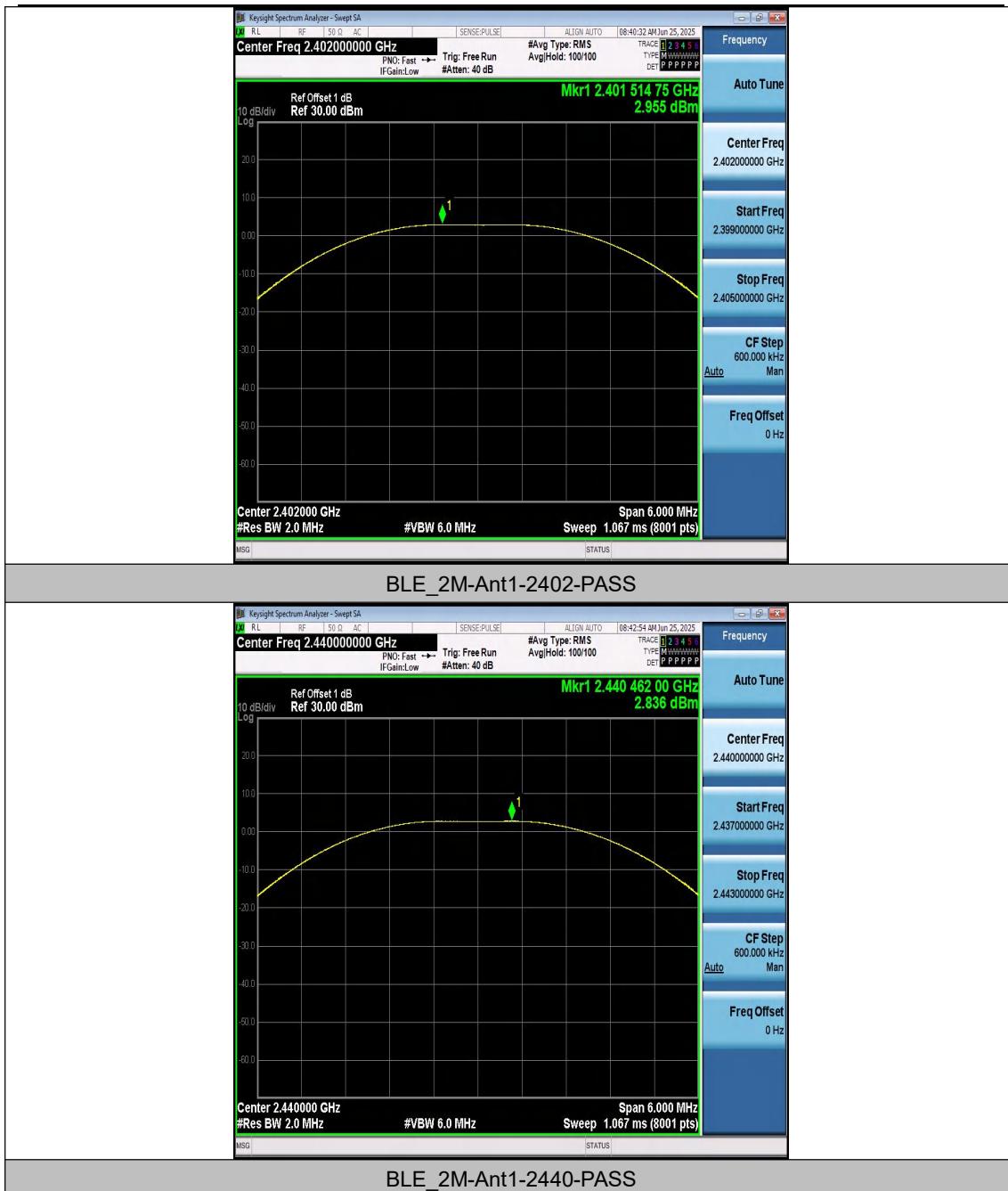
Test Graphs Peak



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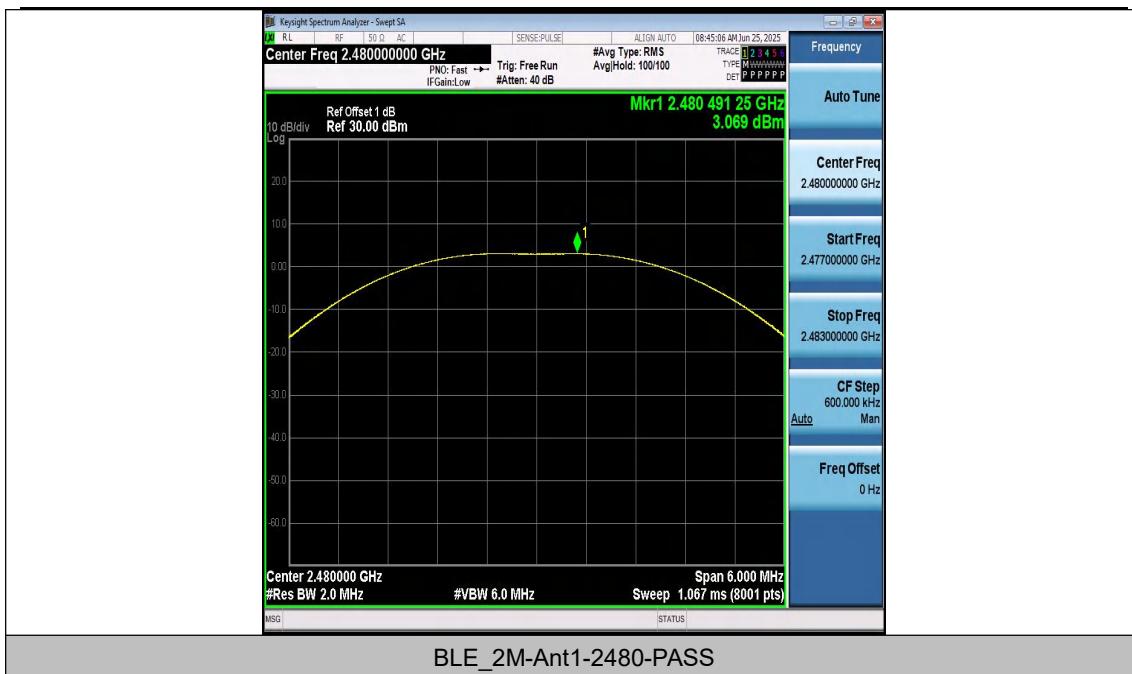
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Appendix D: Maximum power spectral density

Test Result

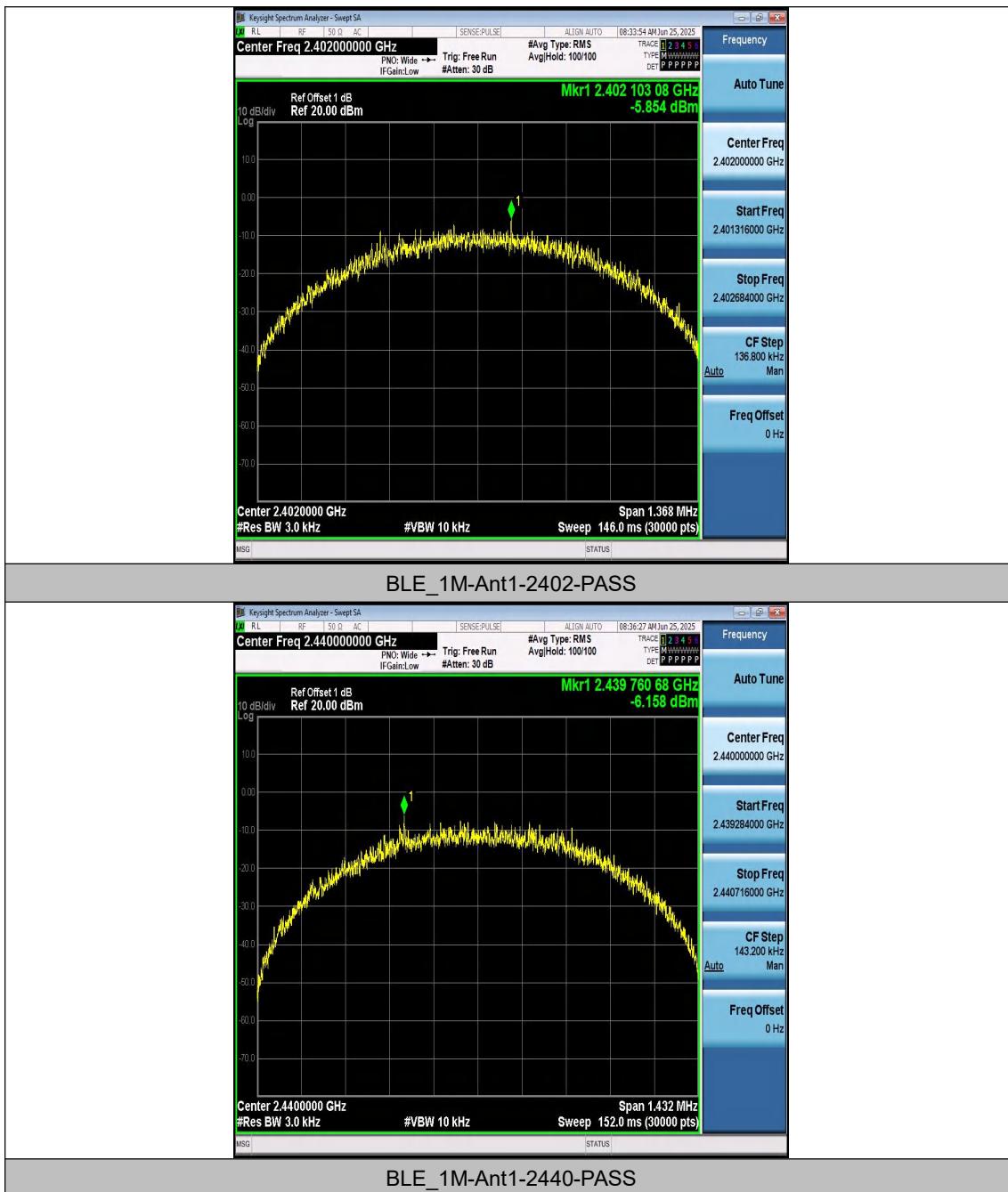
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.85	≤8.00	PASS
BLE_1M	Ant1	2440	-6.16	≤8.00	PASS
BLE_1M	Ant1	2480	-7.51	≤8.00	PASS
BLE_2M	Ant1	2402	-10.15	≤8.00	PASS
BLE_2M	Ant1	2440	-10.18	≤8.00	PASS
BLE_2M	Ant1	2480	-9.62	≤8.00	PASS

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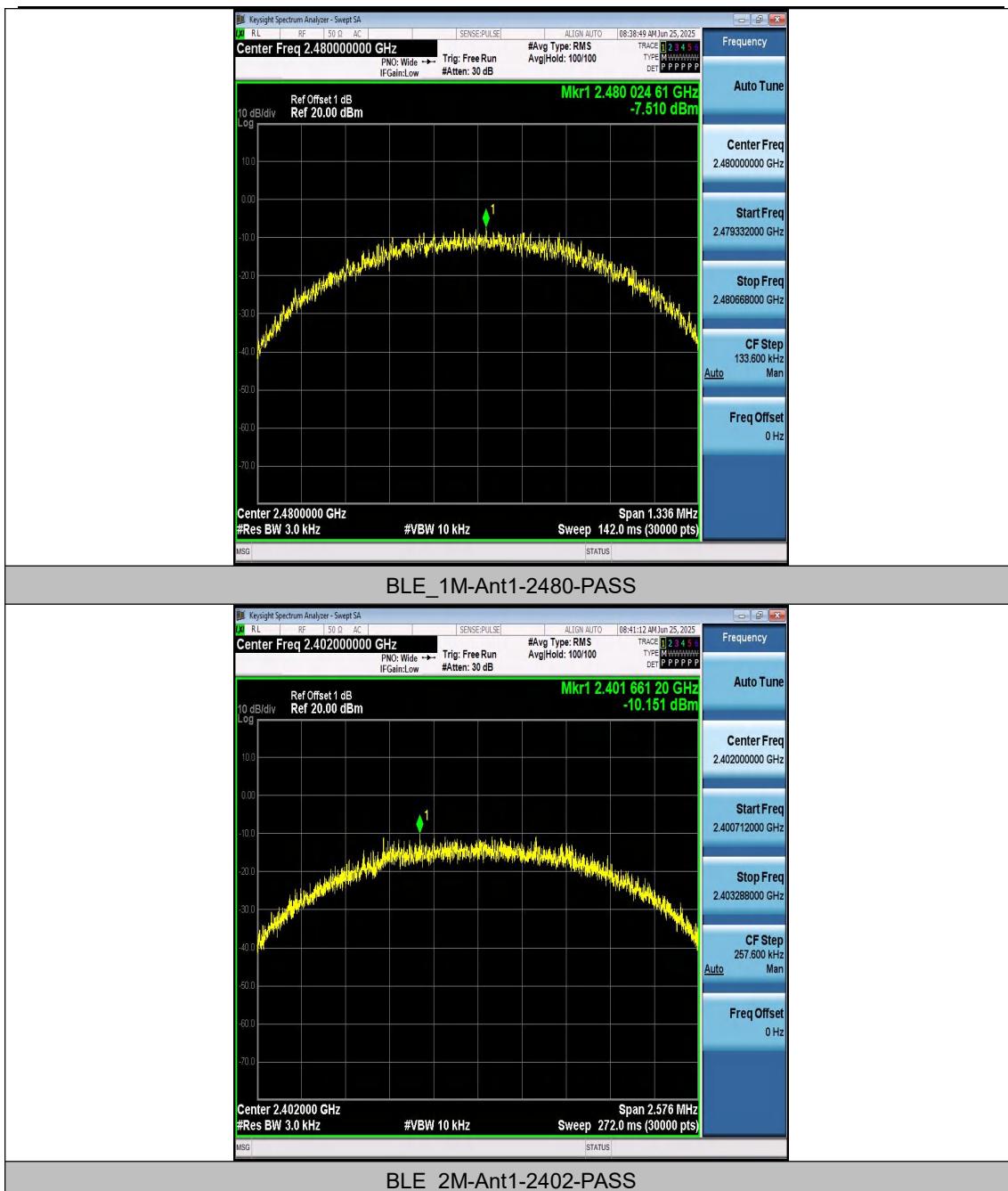
Test Graphs



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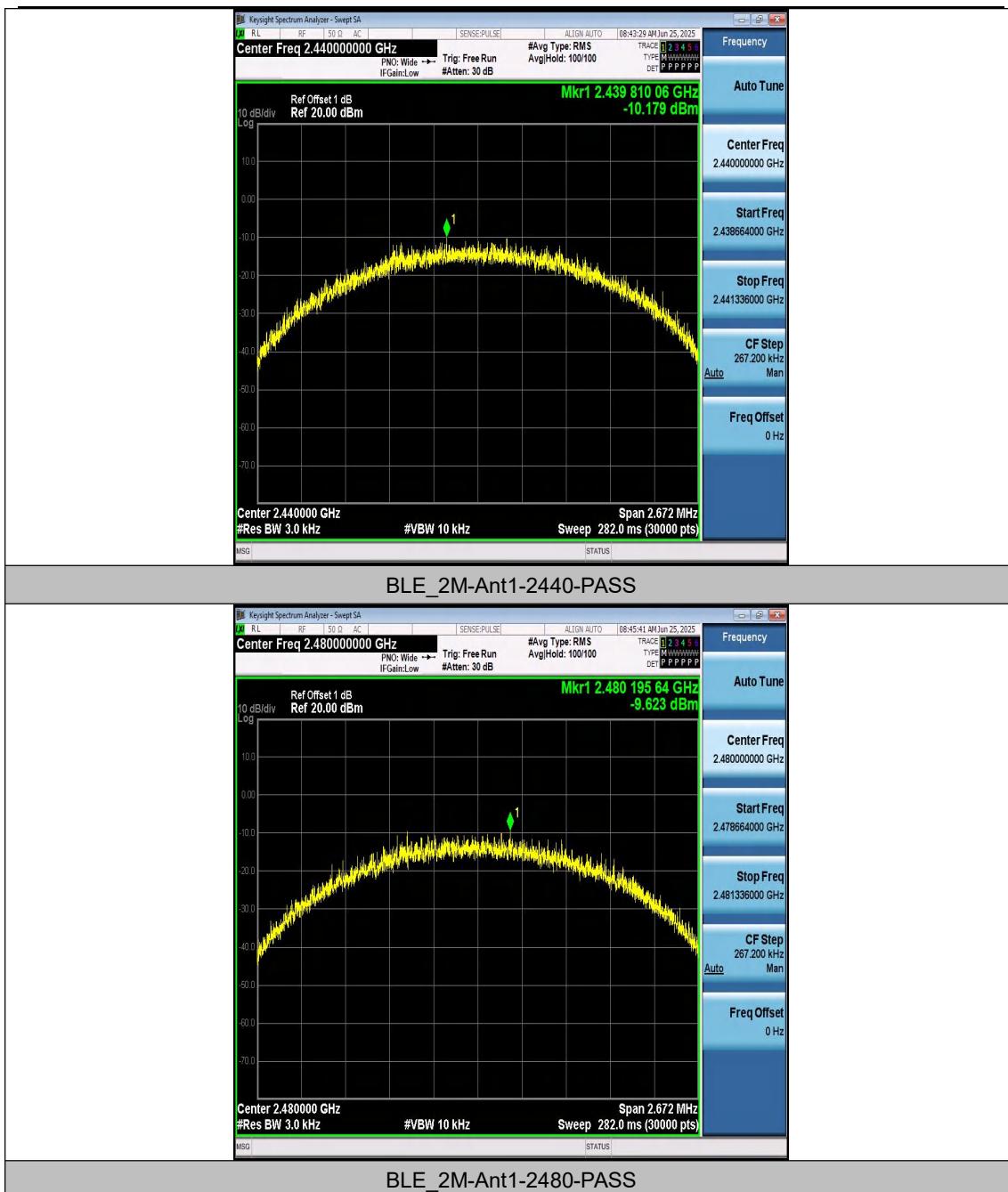
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.24	-57.02	≤-17.76	PASS
BLE_1M	Ant1	High	2480	1.95	-56.53	≤-18.05	PASS
BLE_2M	Ant1	Low	2402	0.59	-32.89	≤-19.41	PASS
BLE_2M	Ant1	High	2480	0.78	-55.77	≤-19.22	PASS

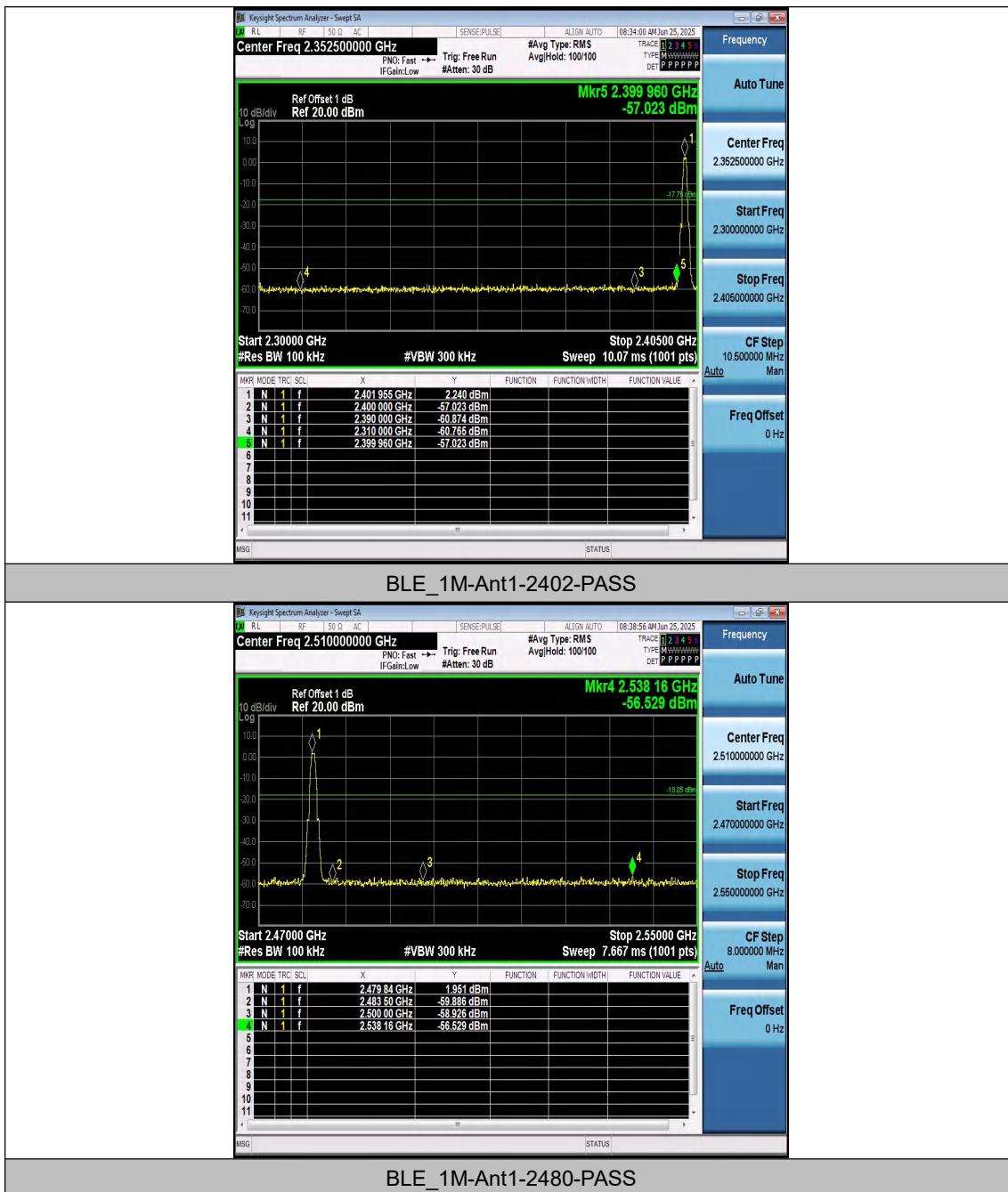
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

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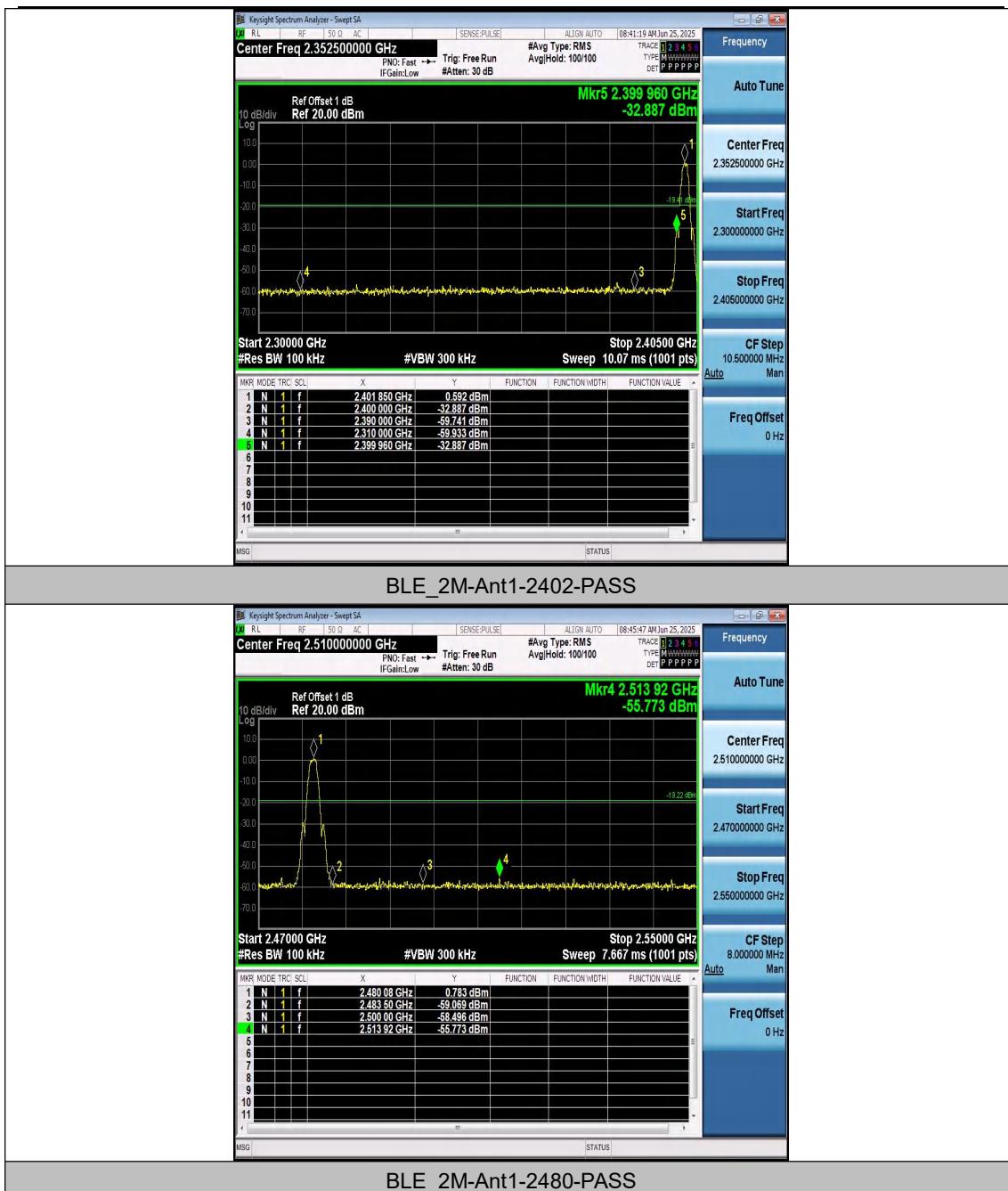
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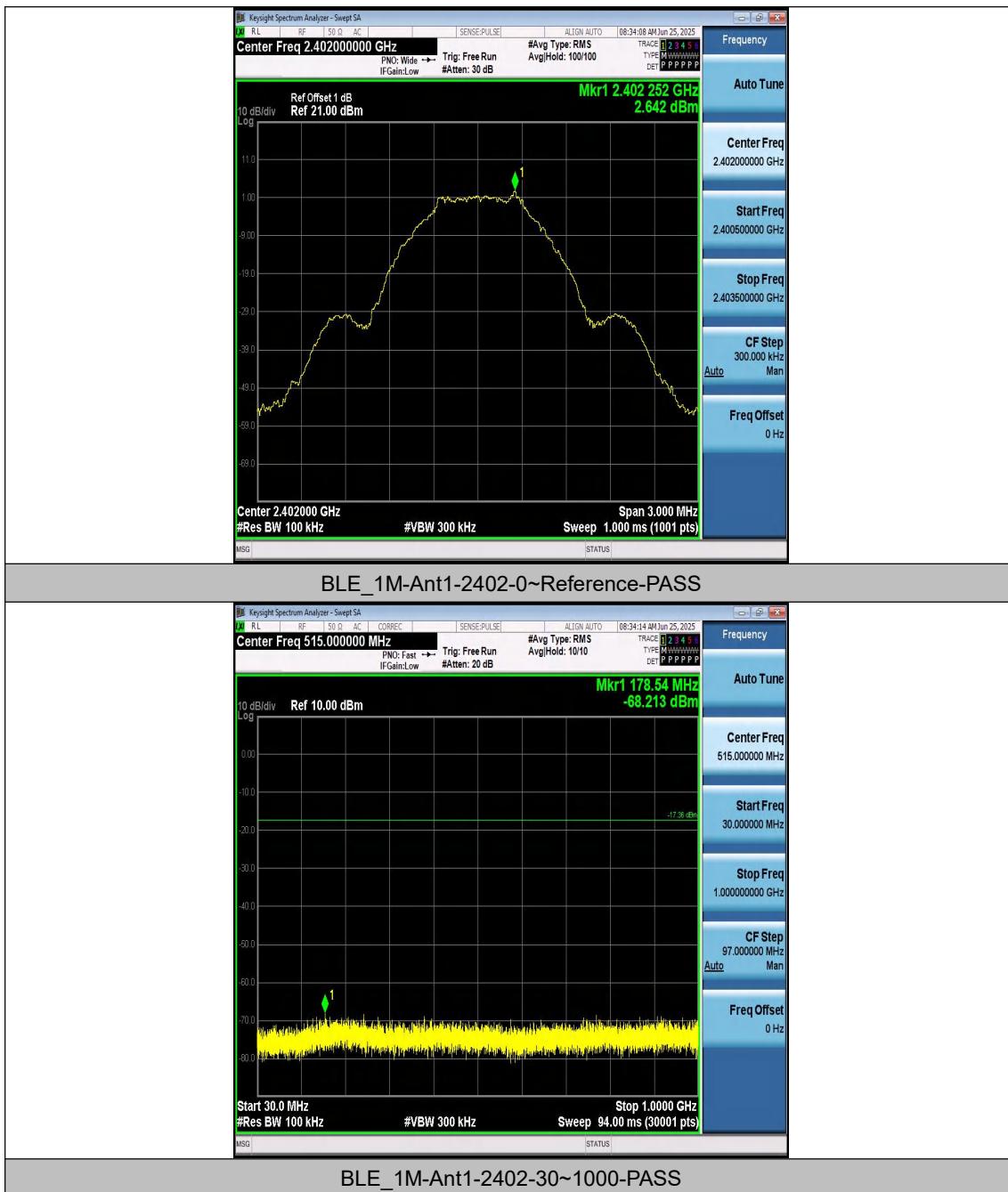
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.64	2.64	---	PASS
BLE_1M	Ant1	2402	30~1000	2.64	-68.21	≤-17.36	PASS
BLE_1M	Ant1	2402	1000~26500	2.64	-37.23	≤-17.36	PASS
BLE_1M	Ant1	2440	0~Reference	2.07	2.07	---	PASS
BLE_1M	Ant1	2440	30~1000	2.07	-67.71	≤-17.93	PASS
BLE_1M	Ant1	2440	1000~26500	2.07	-37.96	≤-17.93	PASS
BLE_1M	Ant1	2480	0~Reference	2.56	2.56	---	PASS
BLE_1M	Ant1	2480	30~1000	2.56	-68.32	≤-17.44	PASS
BLE_1M	Ant1	2480	1000~26500	2.56	-38.84	≤-17.44	PASS
BLE_2M	Ant1	2402	0~Reference	0.97	0.97	---	PASS
BLE_2M	Ant1	2402	30~1000	0.97	-67.46	≤-19.03	PASS
BLE_2M	Ant1	2402	1000~26500	0.97	-38.63	≤-19.03	PASS
BLE_2M	Ant1	2440	0~Reference	0.19	0.19	---	PASS
BLE_2M	Ant1	2440	30~1000	0.19	-67.68	≤-19.81	PASS
BLE_2M	Ant1	2440	1000~26500	0.19	-39.22	≤-19.81	PASS
BLE_2M	Ant1	2480	0~Reference	0.42	0.42	---	PASS
BLE_2M	Ant1	2480	30~1000	0.42	-68.88	≤-19.58	PASS
BLE_2M	Ant1	2480	1000~26500	0.42	-39.21	≤-19.58	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.

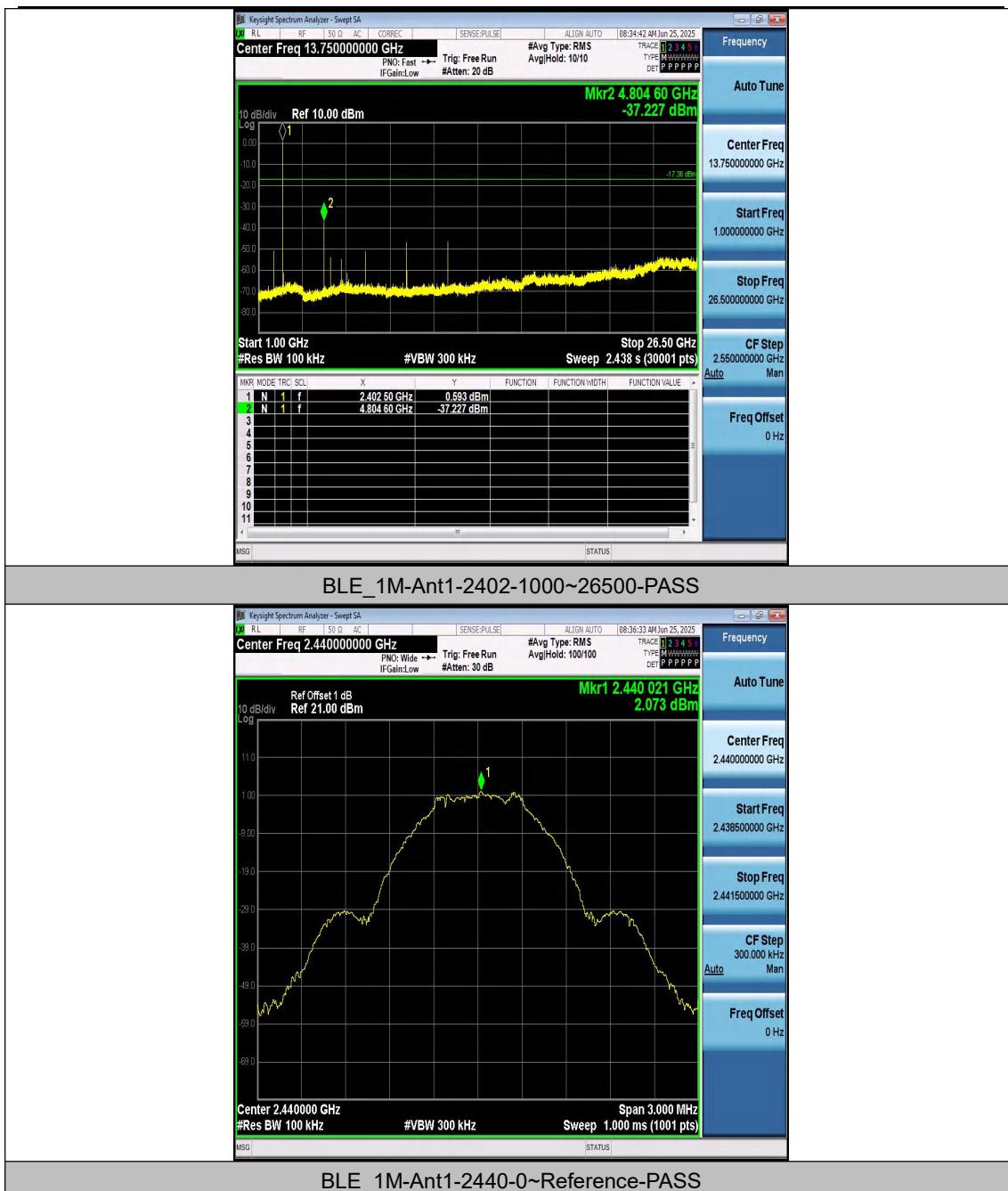
Test Graphs



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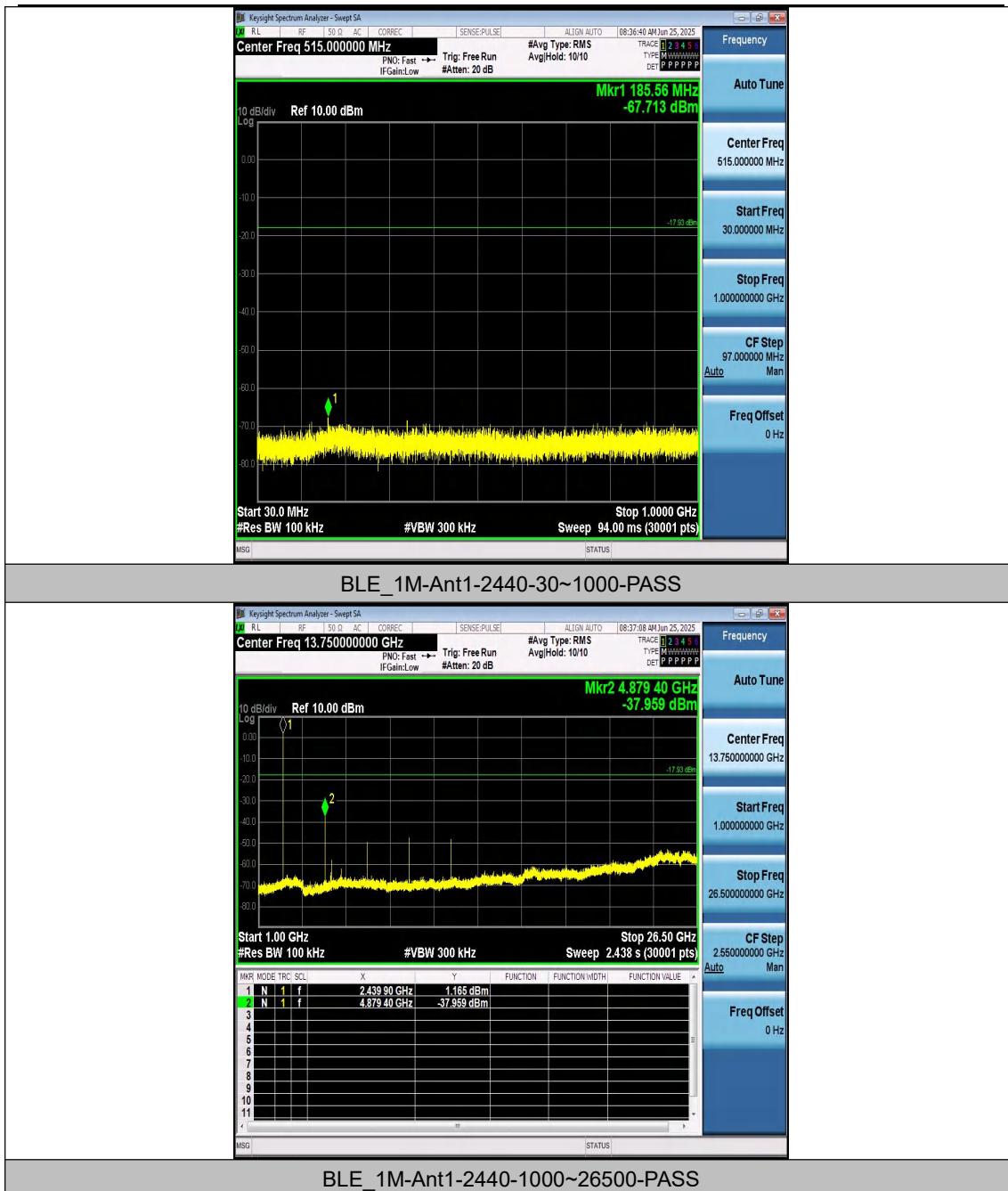
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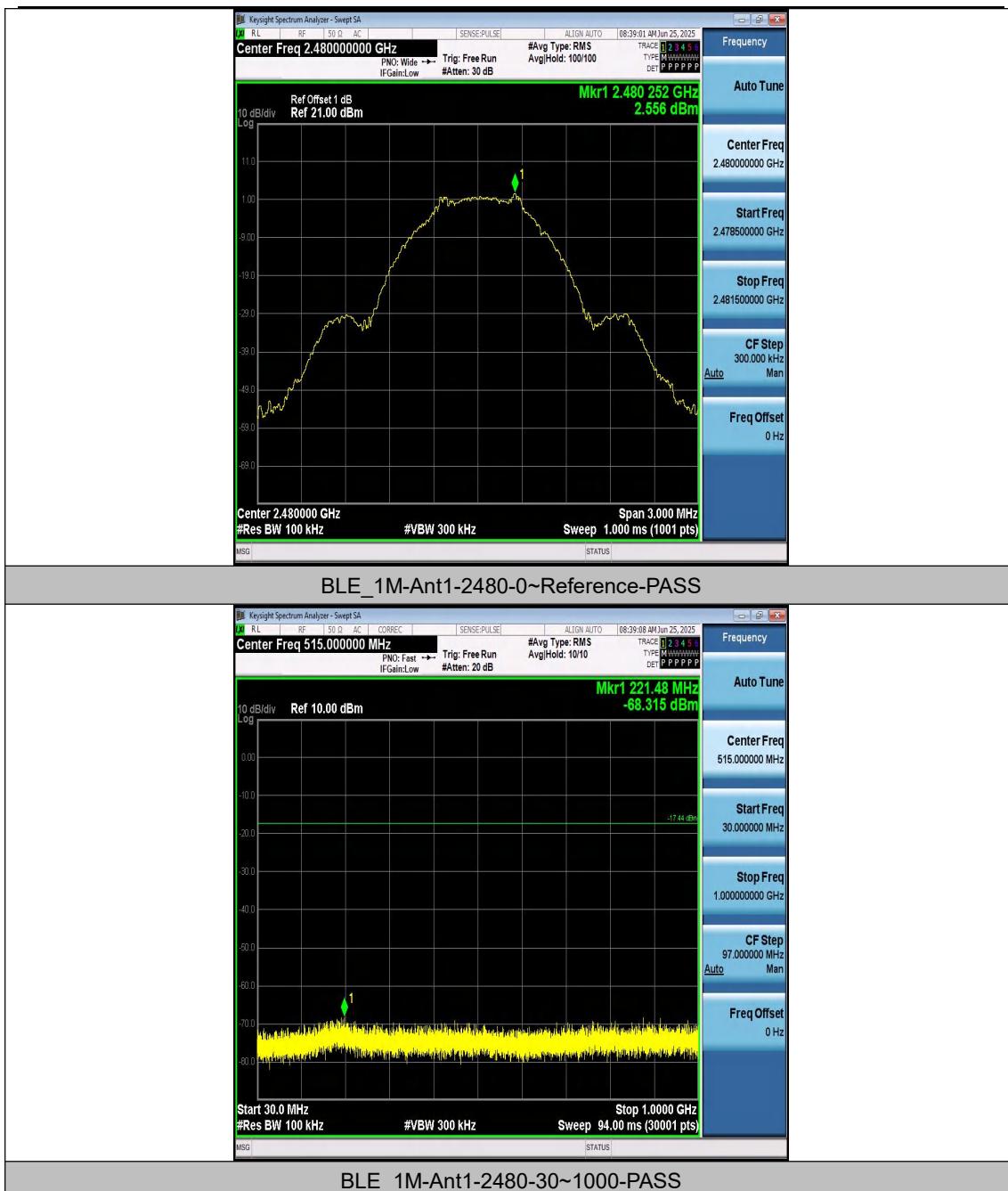
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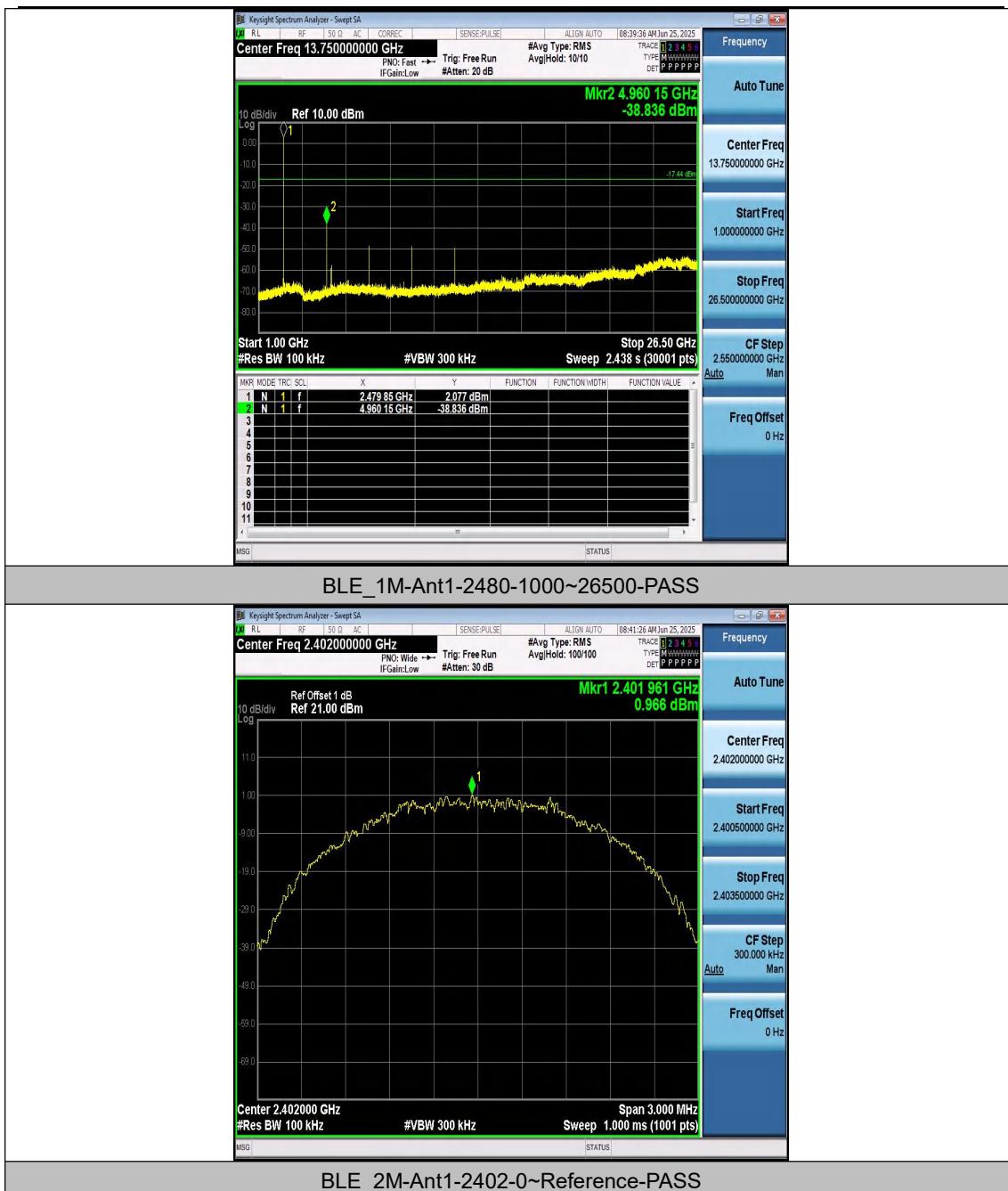
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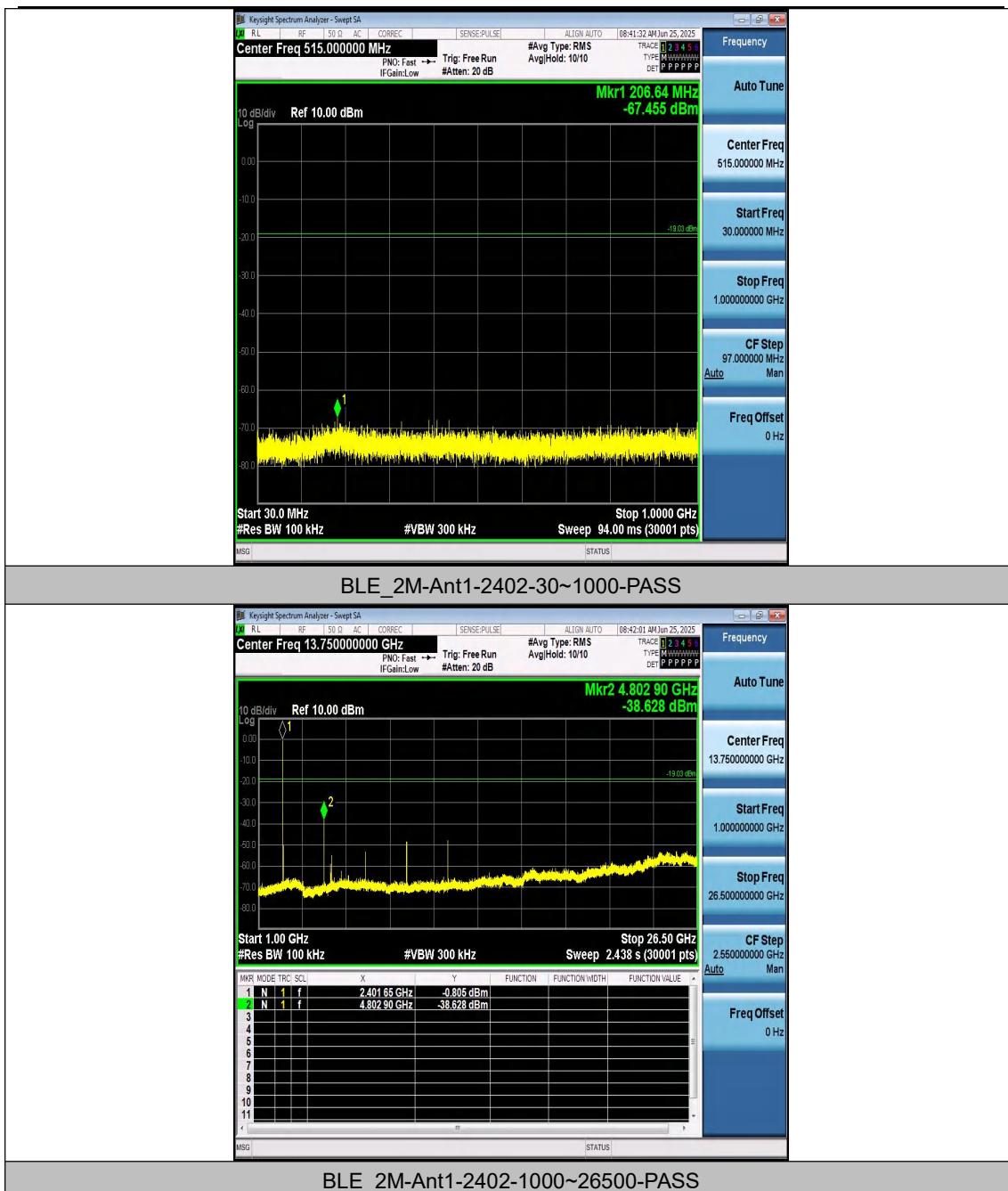
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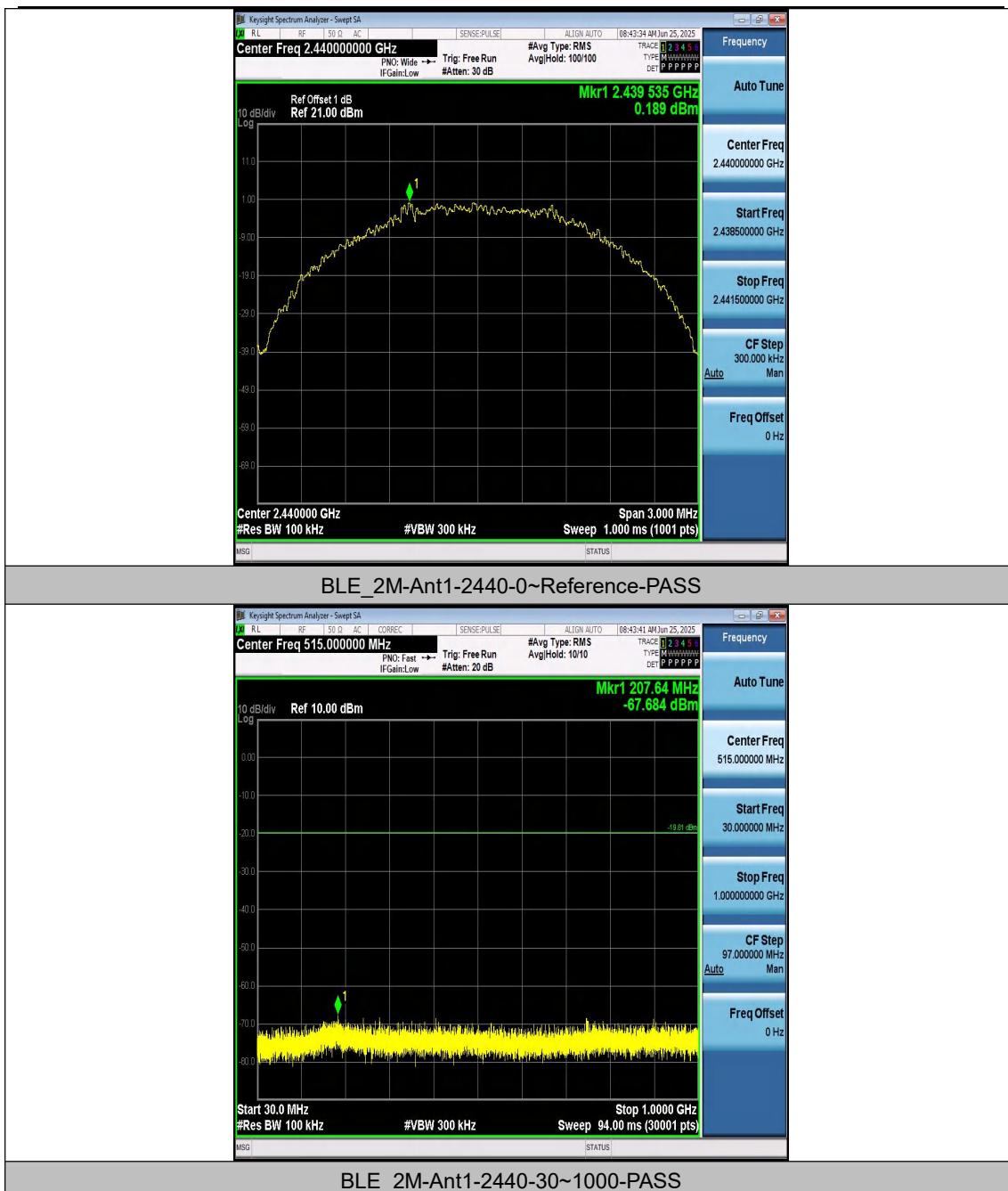
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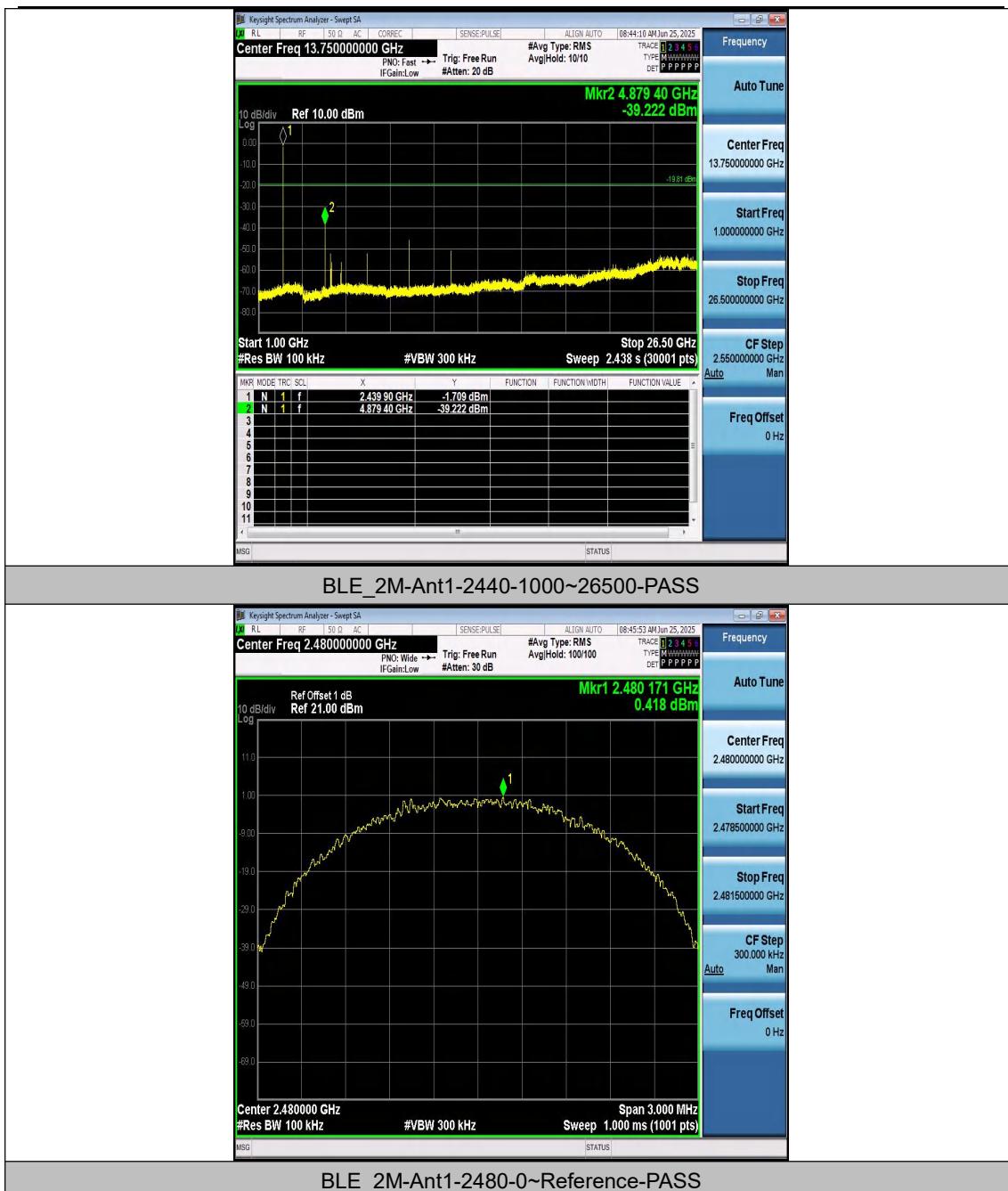
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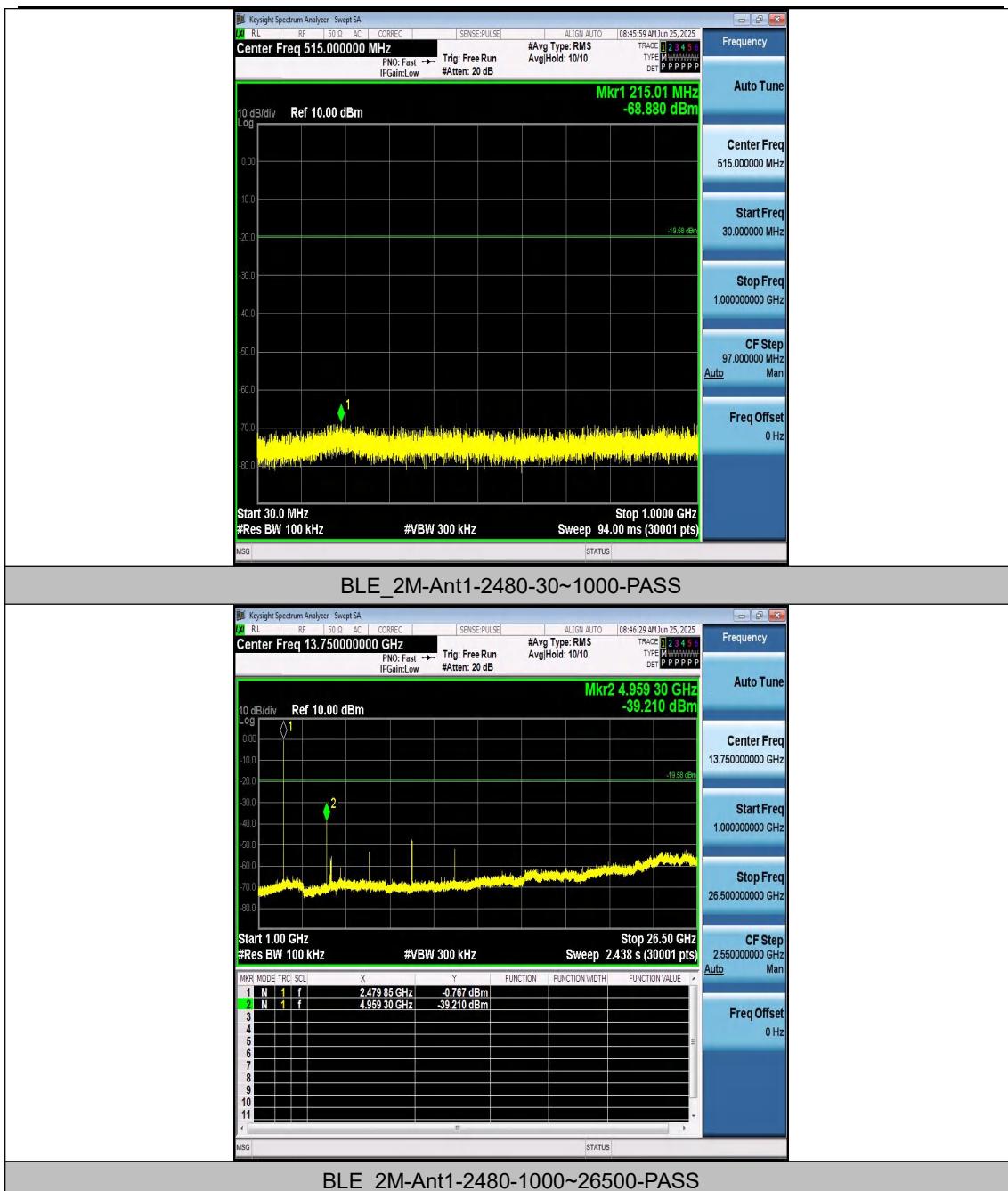
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Appendix G: Duty Cycle

Test Result

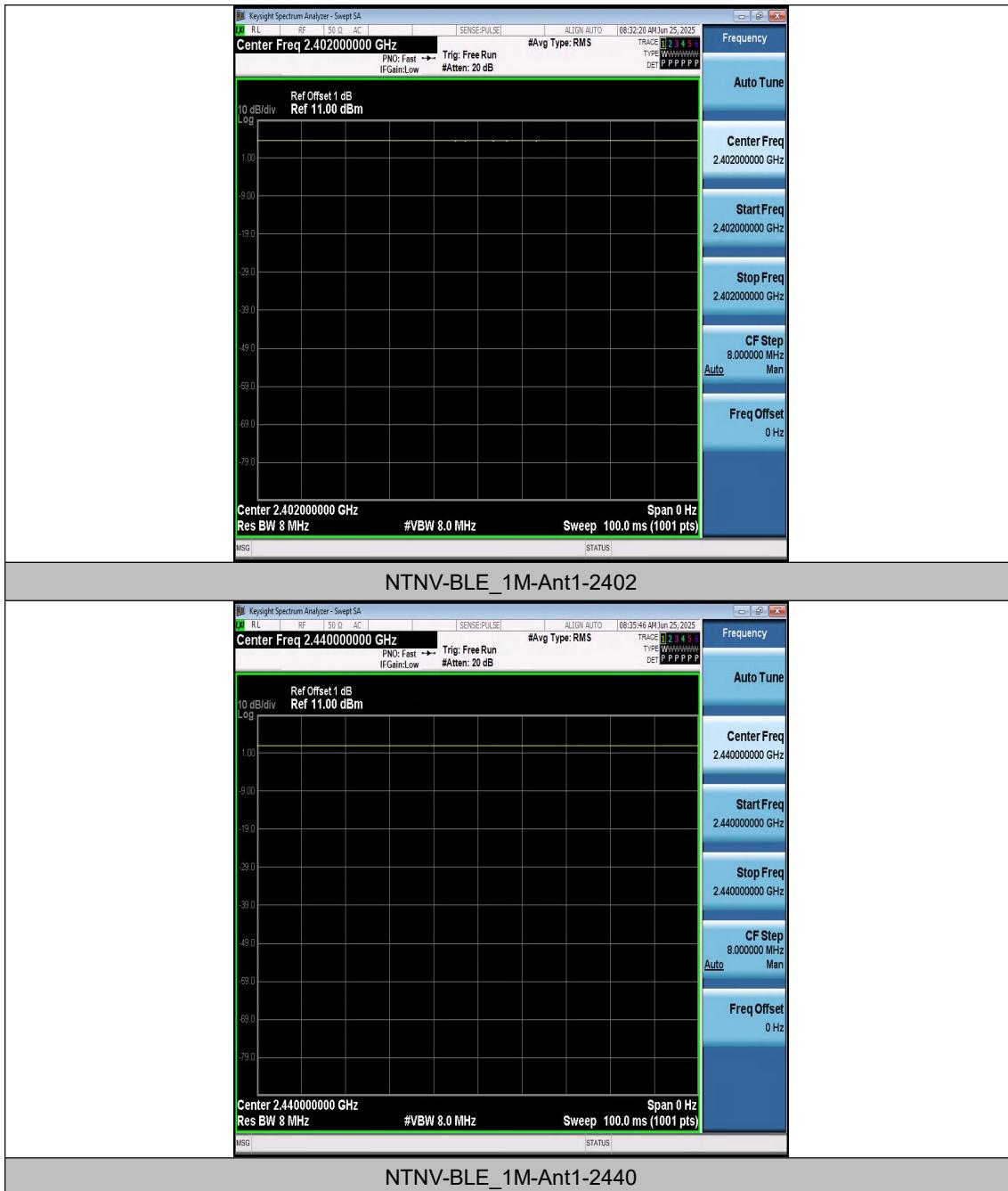
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	100	100	100	0
BLE_1M	Ant1	2440	100	100	100	0
BLE_1M	Ant1	2480	100	100	100	0
BLE_2M	Ant1	2402	100	100	100	0
BLE_2M	Ant1	2440	100	100	100	0
BLE_2M	Ant1	2480	100	100	100	0

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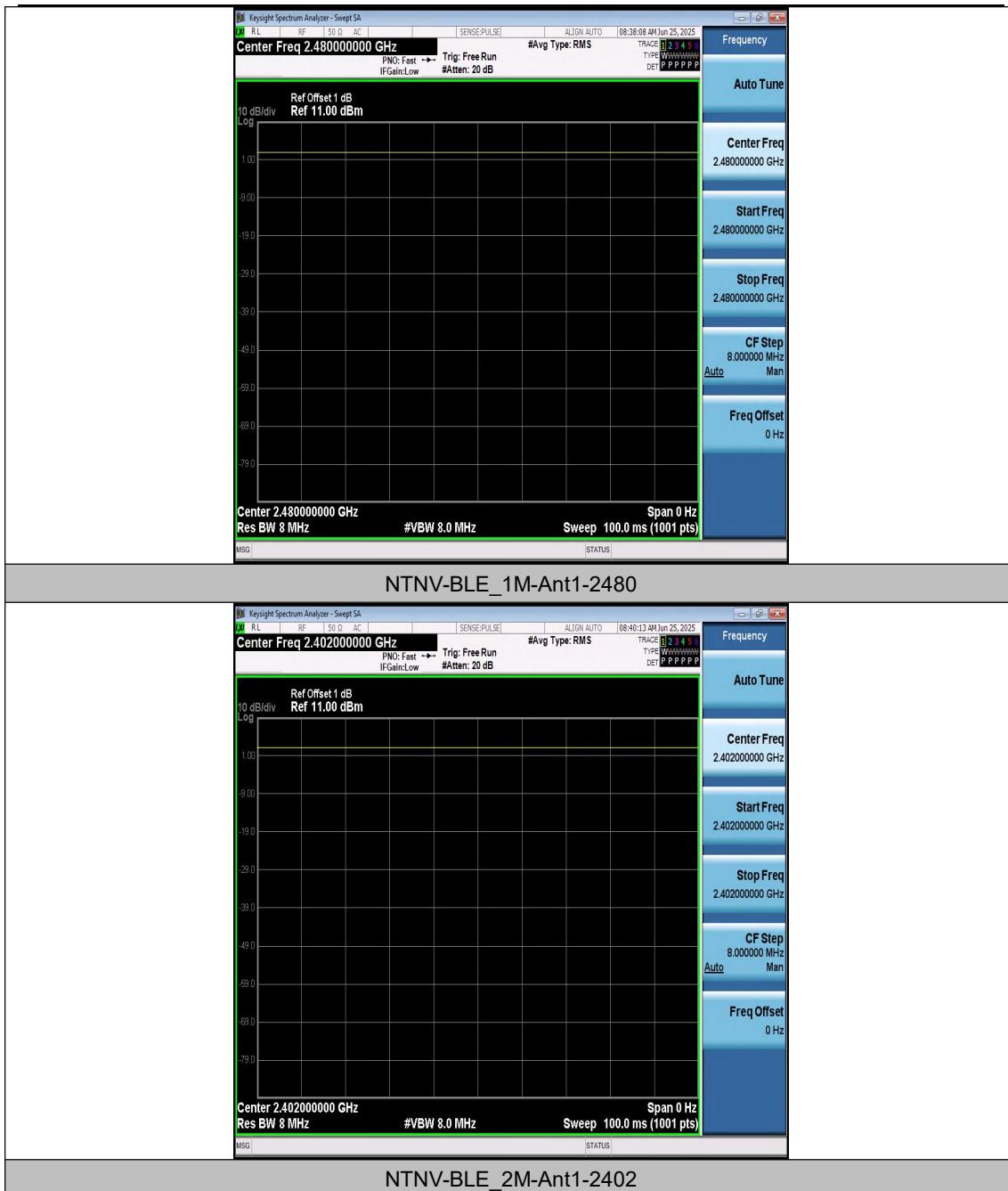
Test Graphs



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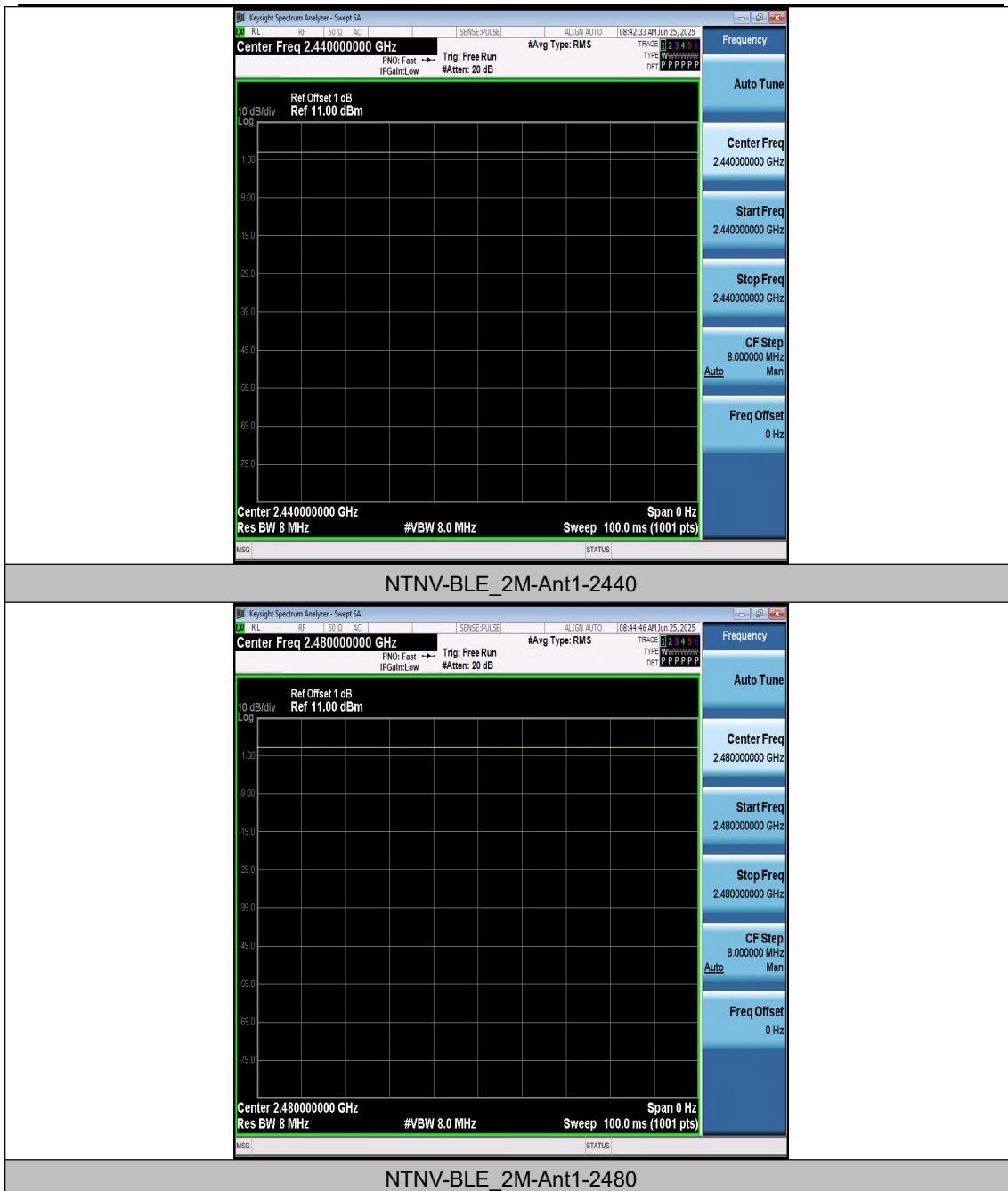
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