Appendix Test Data

Report No.:	1812C50353912502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-7-21	Finish Test Date:	2025-8-19
Test Engineer:	dylan. Ma	Auditor:	Justin Feng
Temperature:	26.3℃	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	0.64	2401.70	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.71	2439.66	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.65	2479.69	2480.34	0.5	PASS

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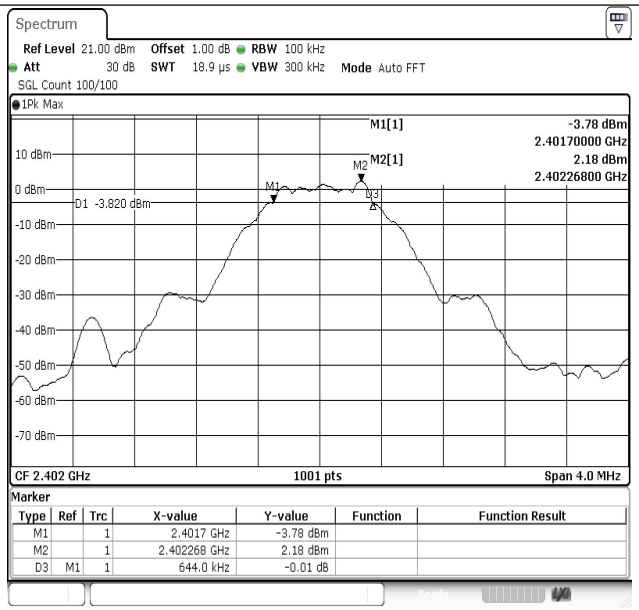
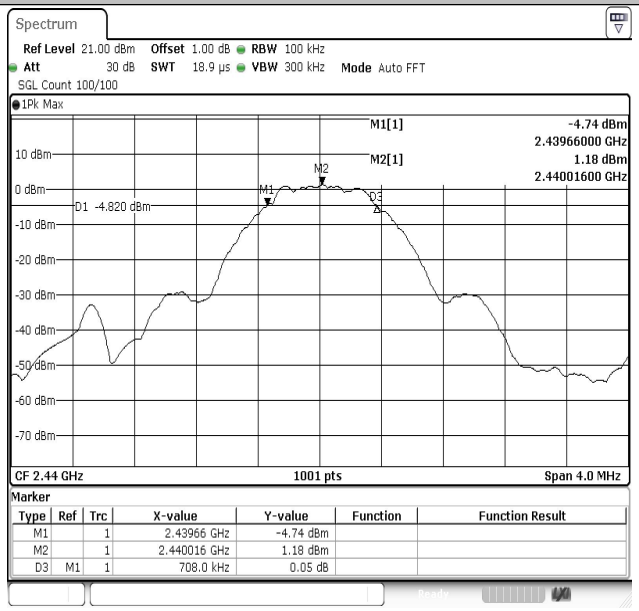
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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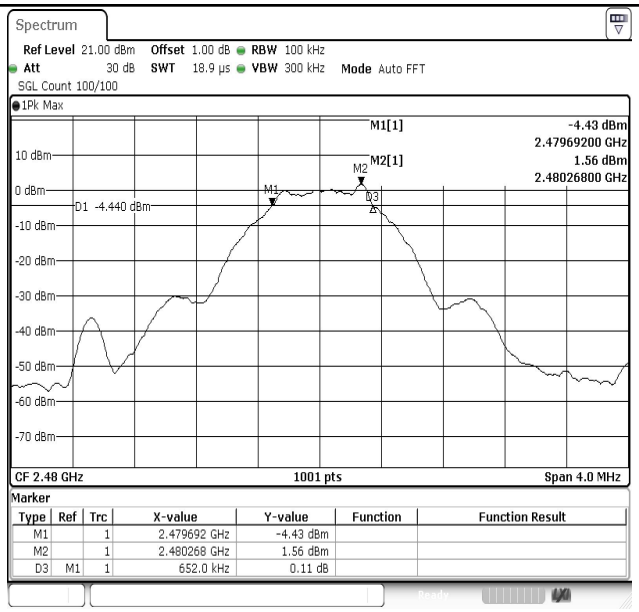

BLE_1M-Ant1-2480-PASS

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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	1.0270	2401.5085	2402.5355	---	---
BLE_1M	Ant1	2440	1.0190	2439.5085	2440.5275	---	---
BLE_1M	Ant1	2480	1.0190	2479.5045	2480.5235	---	---

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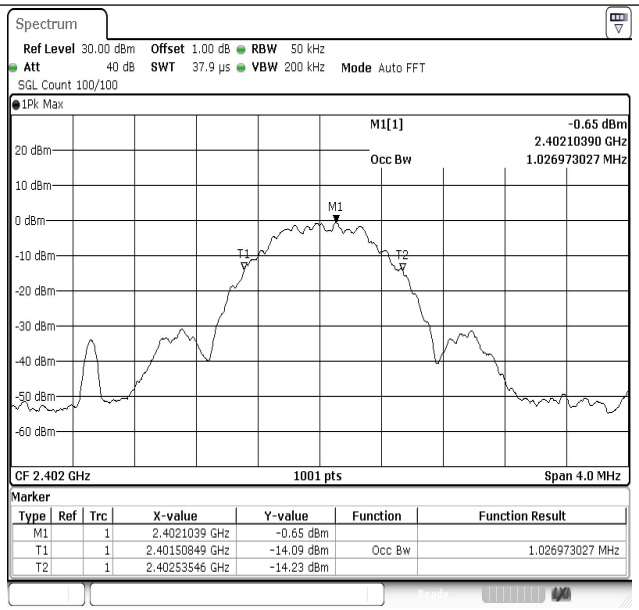
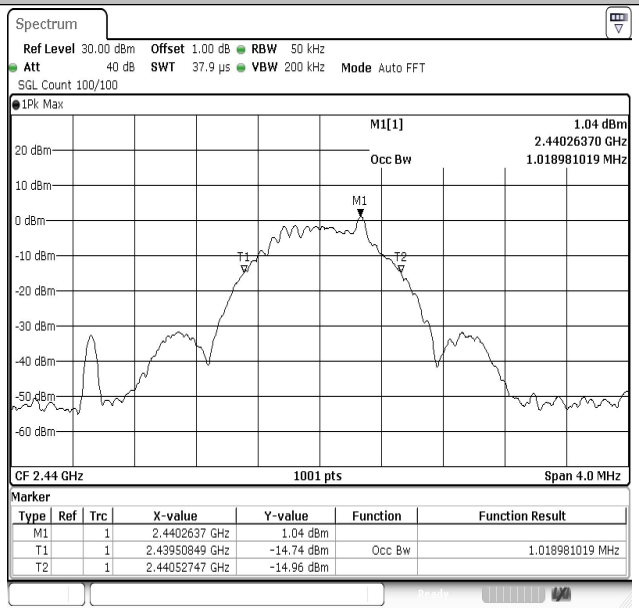
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440

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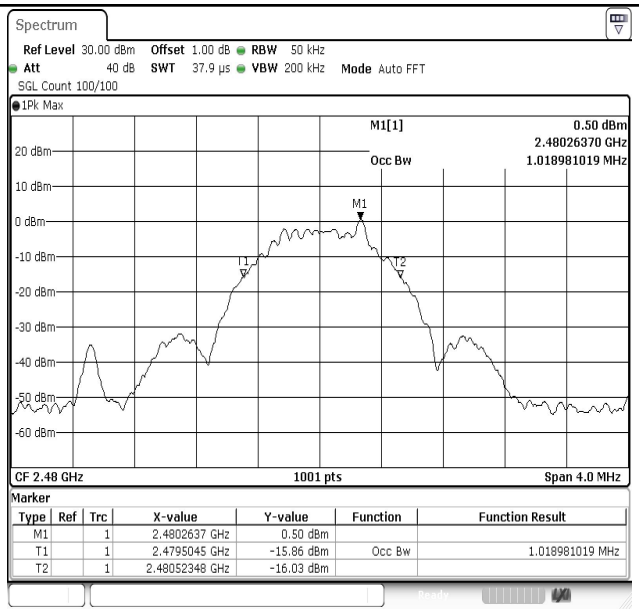

BLE_1M-Ant1-2480

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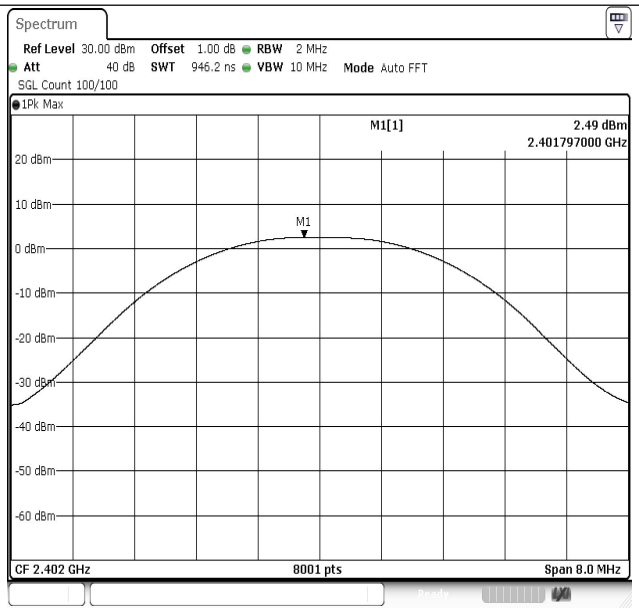
Appendix C: Maximum conducted output power

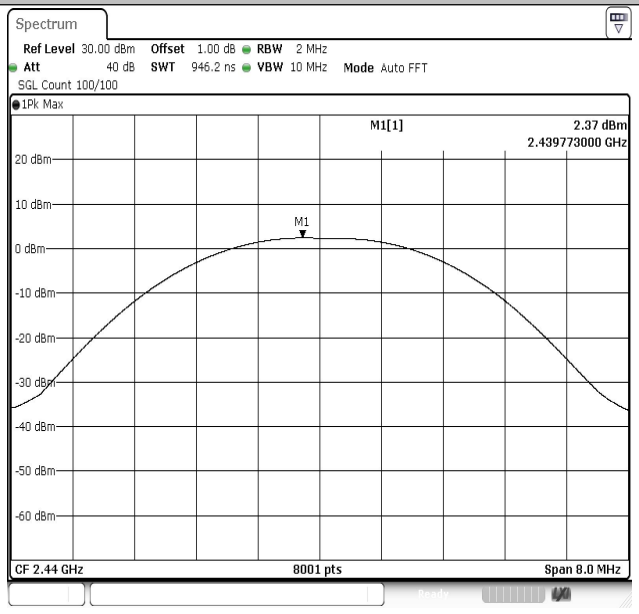
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.49	≤30	PASS
BLE_1M	Ant1	2440	2.37	≤30	PASS
BLE_1M	Ant1	2480	1.70	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



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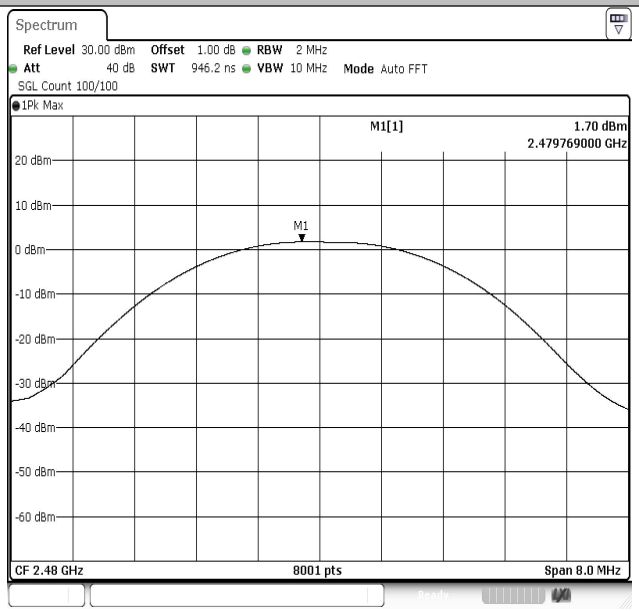
BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-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	-14.02	≤8.00	PASS
BLE_1M	Ant1	2440	-14.20	≤8.00	PASS
BLE_1M	Ant1	2480	-15.02	≤8.00	PASS

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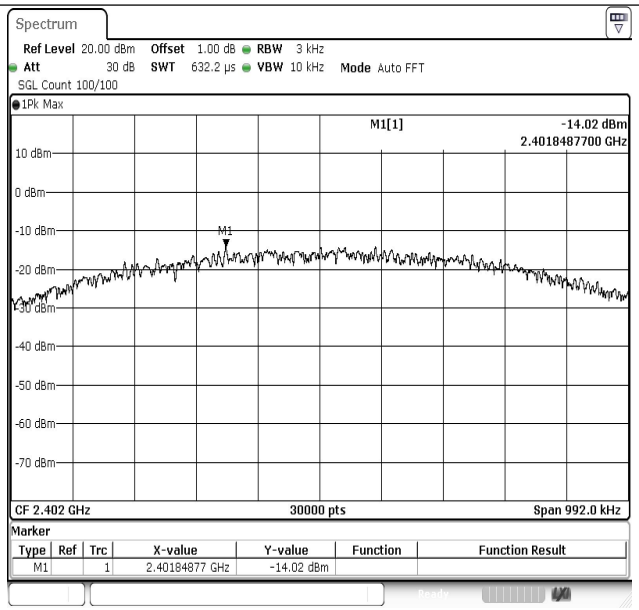
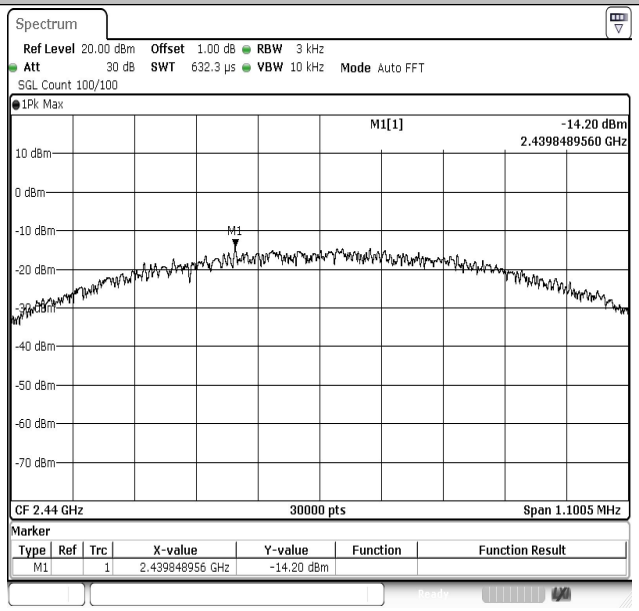
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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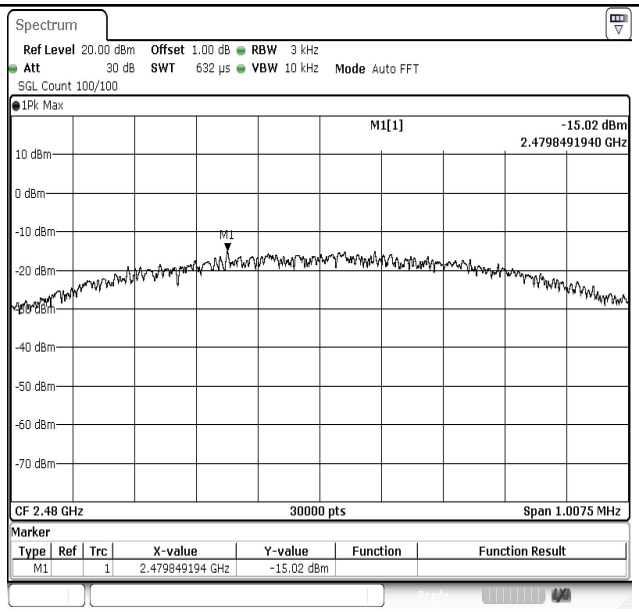

BLE_1M-Ant1-2480-PASS

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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	-41.19	≤-17.76	PASS
BLE_1M	Ant1	High	2480	1.59	-44.38	≤-18.41	PASS

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

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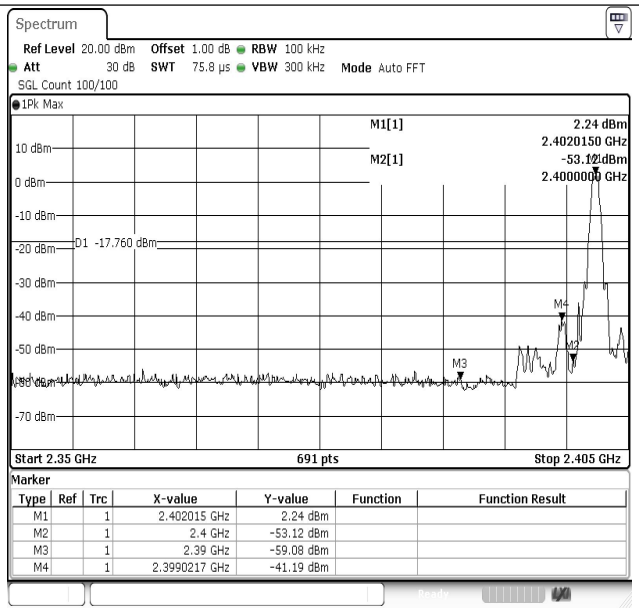
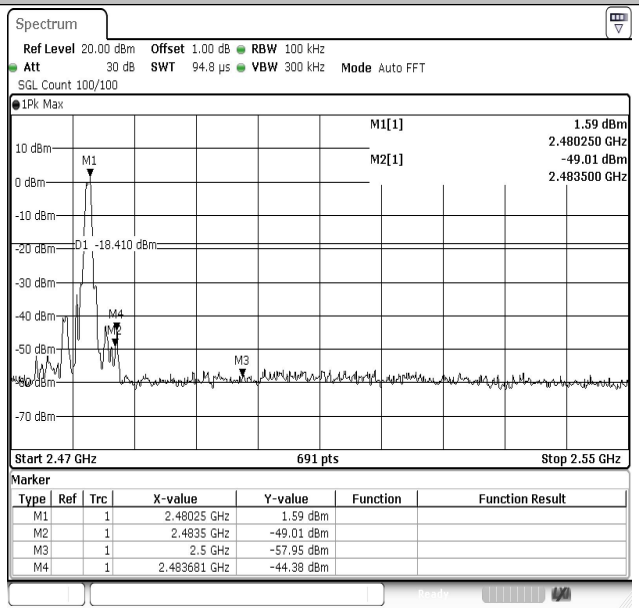
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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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	2.14	2.14	---	PASS
BLE_1M	Ant1	2402	30~1000	2.14	-58.78	≤-17.86	PASS
BLE_1M	Ant1	2402	1000~26500	2.14	-44.6	≤-17.86	PASS
BLE_1M	Ant1	2440	0~Reference	2.05	2.05	---	PASS
BLE_1M	Ant1	2440	30~1000	2.05	-57.25	≤-17.95	PASS
BLE_1M	Ant1	2440	1000~26500	2.05	-43.36	≤-17.95	PASS
BLE_1M	Ant1	2480	0~Reference	1.43	1.43	---	PASS
BLE_1M	Ant1	2480	30~1000	1.43	-57.61	≤-18.57	PASS
BLE_1M	Ant1	2480	1000~26500	1.43	-43.97	≤-18.57	PASS

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

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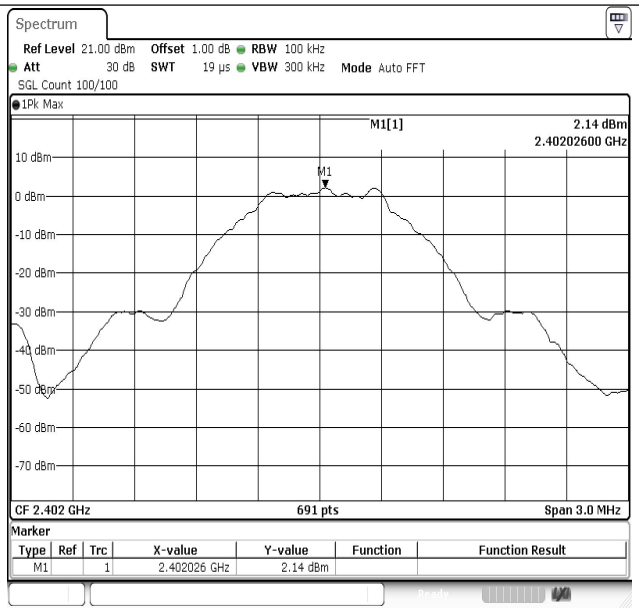
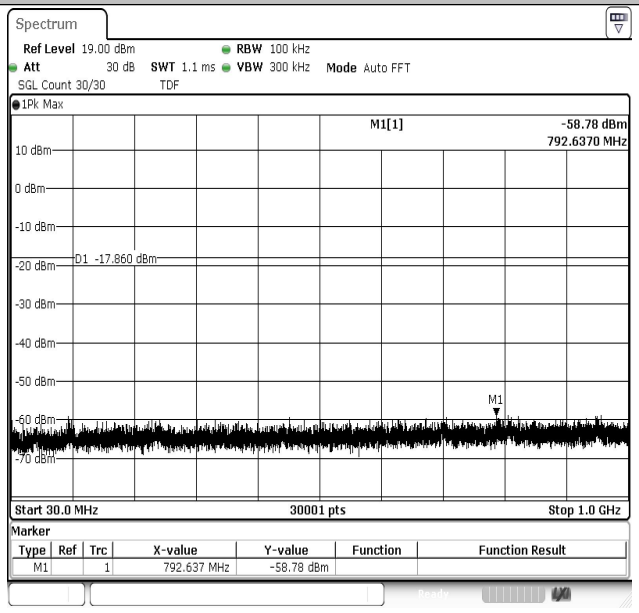
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS

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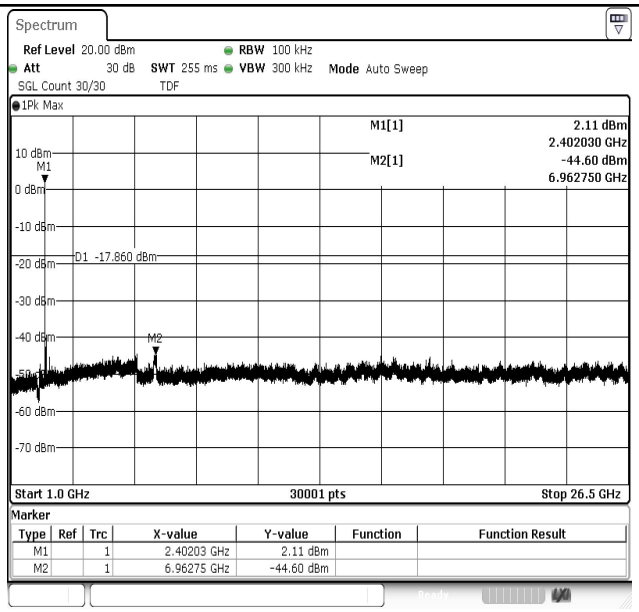
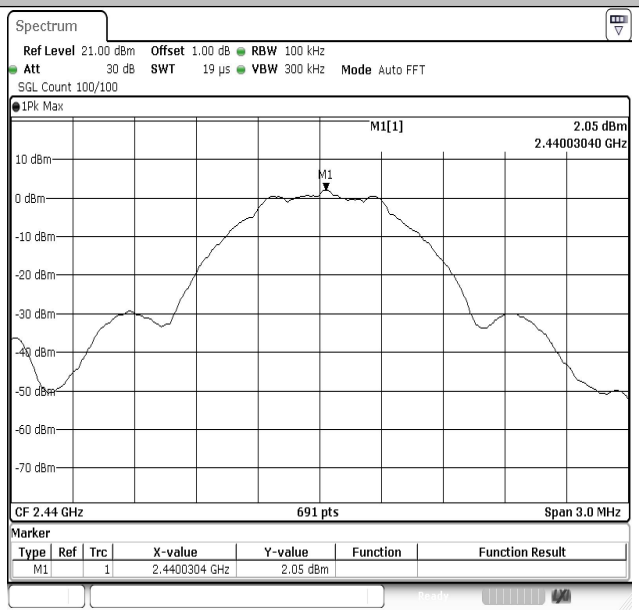


BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS

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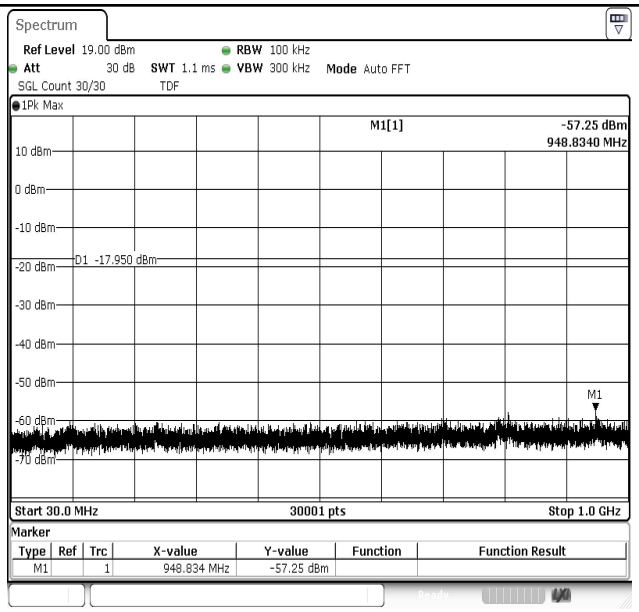
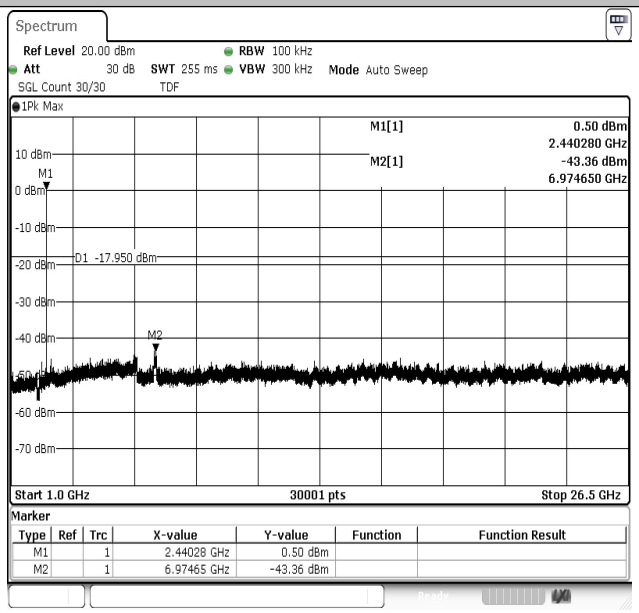


BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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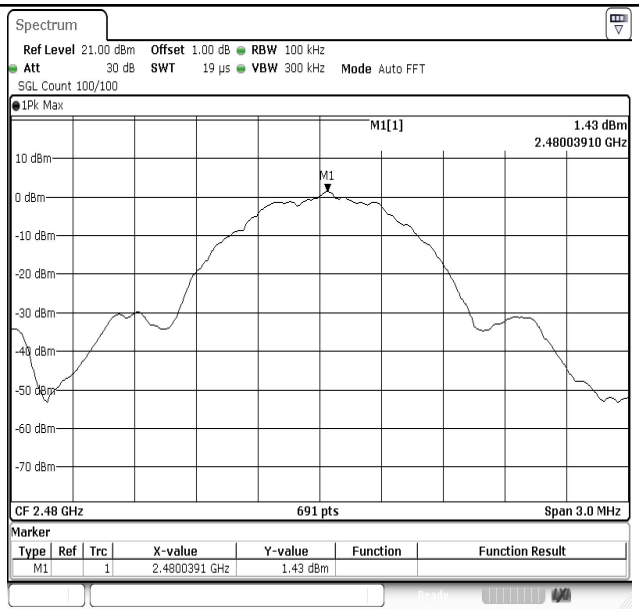
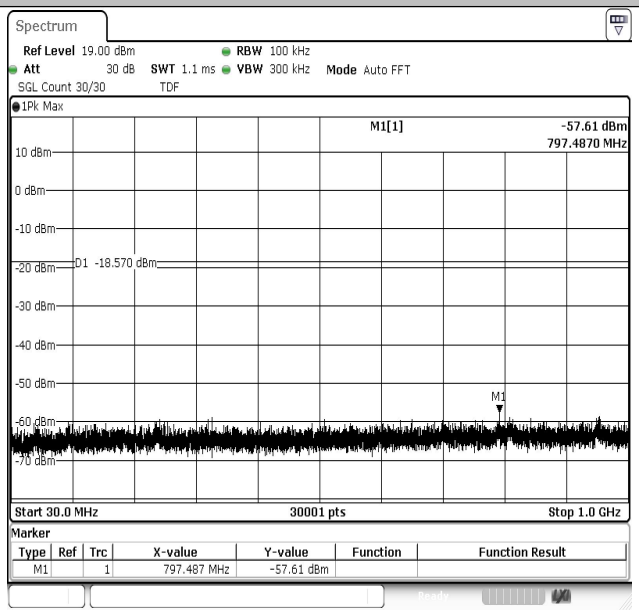


BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

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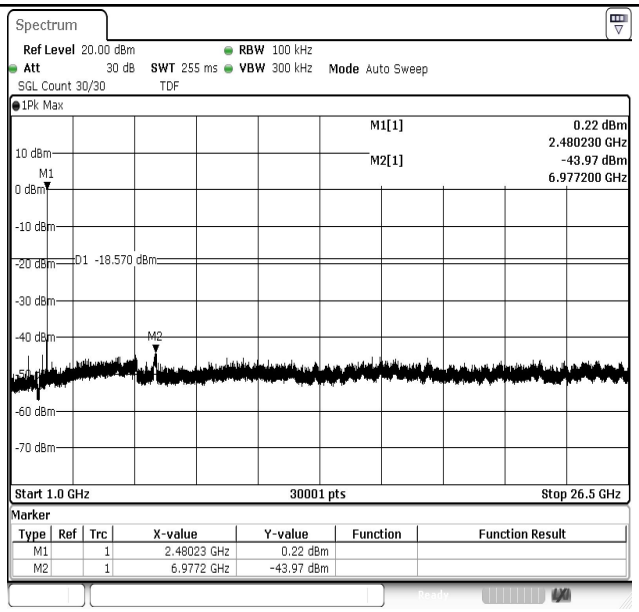

BLE_1M-Ant1-2480-1000~26500-PASS

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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	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

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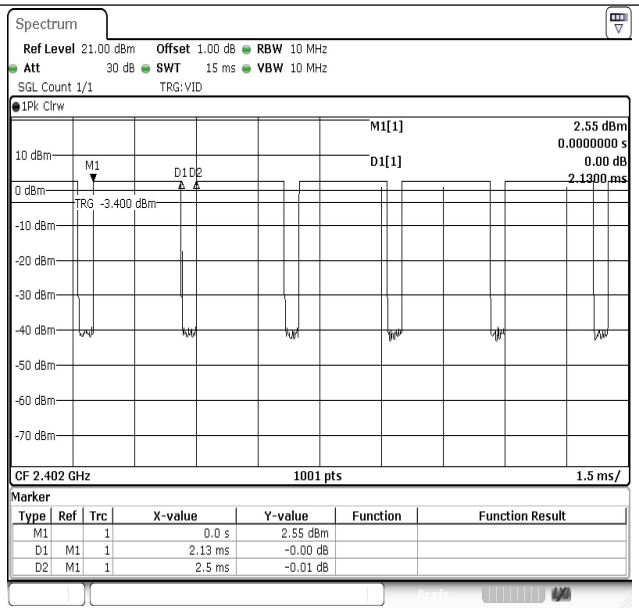
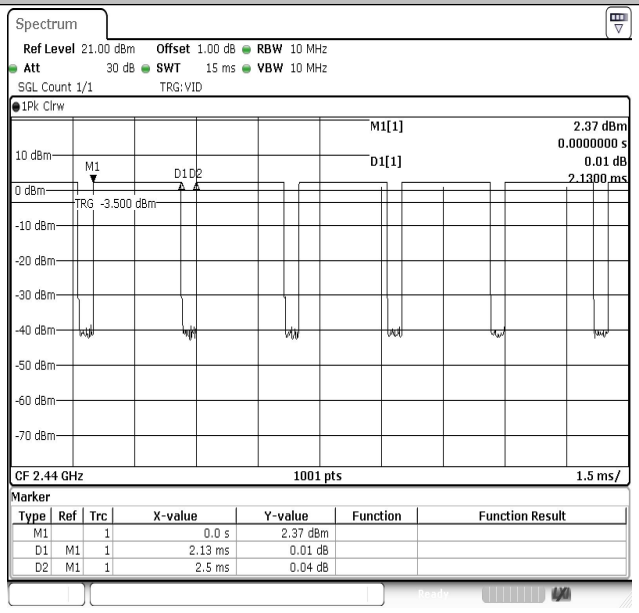
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440

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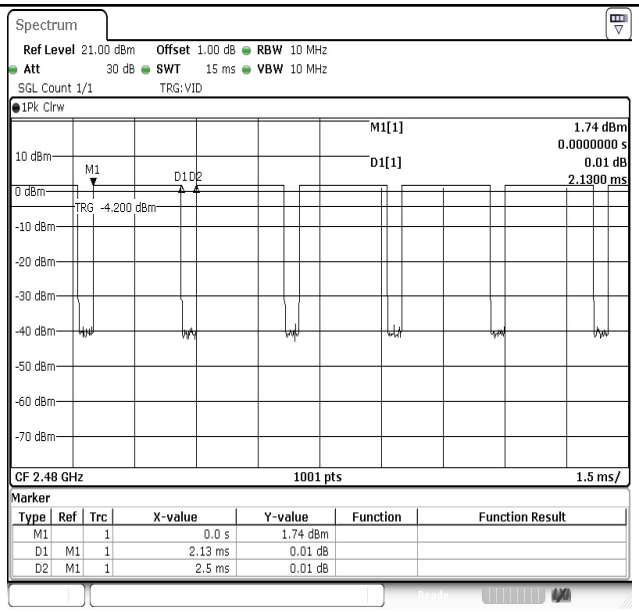

NTNV-BLE_1M-Ant1-2480

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