

Appendix Test Data

Report No.:	182512C400210102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.6	Finish Test Date:	2024.7.9
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	47%
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	0.632	2401.684	2402.316	0.5	PASS
BLE_1M	Ant1	2440	0.616	2439.684	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.632	2479.684	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.408	2402.552	0.5	PASS
BLE_2M	Ant1	2440	1.004	2439.524	2440.528	0.5	PASS
BLE_2M	Ant1	2480	1.084	2479.456	2480.540	0.5	PASS

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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0217	2401.4988	2402.5205	---	---
BLE_1M	Ant1	2440	1.0091	2439.4999	2440.5090	---	---
BLE_1M	Ant1	2480	1.0372	2479.4943	2480.5315	---	---
BLE_2M	Ant1	2402	2.0545	2400.9936	2403.0481	---	---
BLE_2M	Ant1	2440	2.0328	2439.0097	2441.0425	---	---
BLE_2M	Ant1	2480	2.0381	2479.0065	2481.0446	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



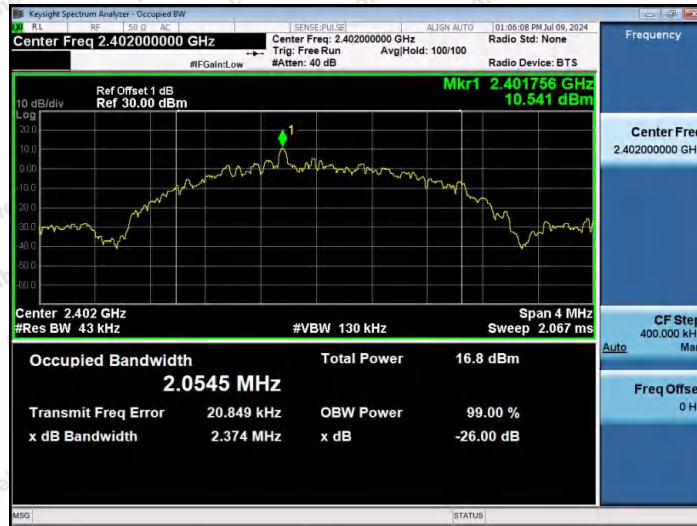
BLE_1M-Ant1-2480

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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

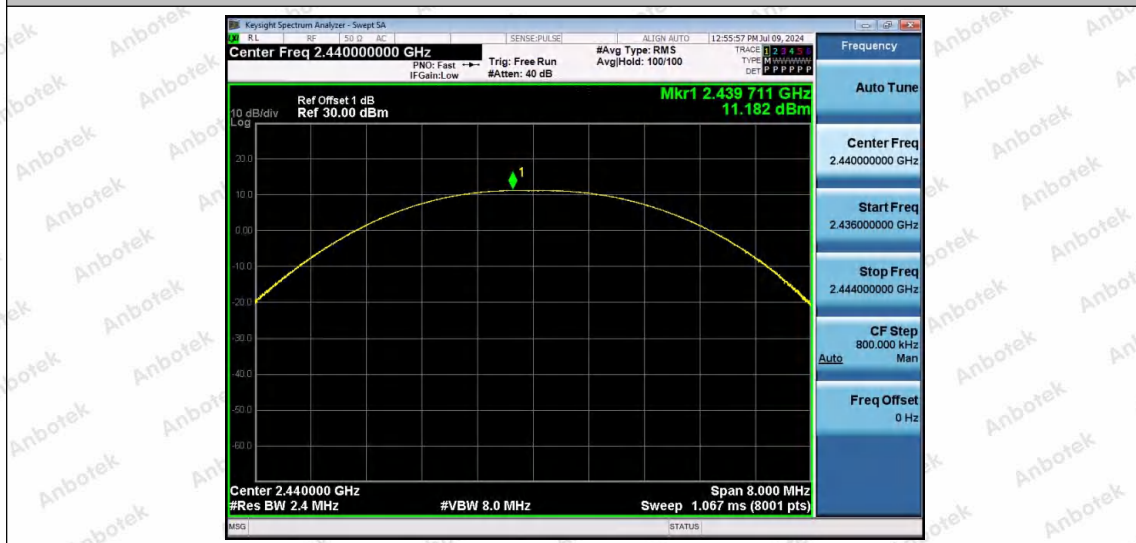
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	11.09	≤30	PASS
BLE_1M	Ant1	2440	11.18	≤30	PASS
BLE_1M	Ant1	2480	11.24	≤30	PASS
BLE_2M	Ant1	2402	11.06	≤30	PASS
BLE_2M	Ant1	2440	11.15	≤30	PASS
BLE_2M	Ant1	2480	11.22	≤30	PASS

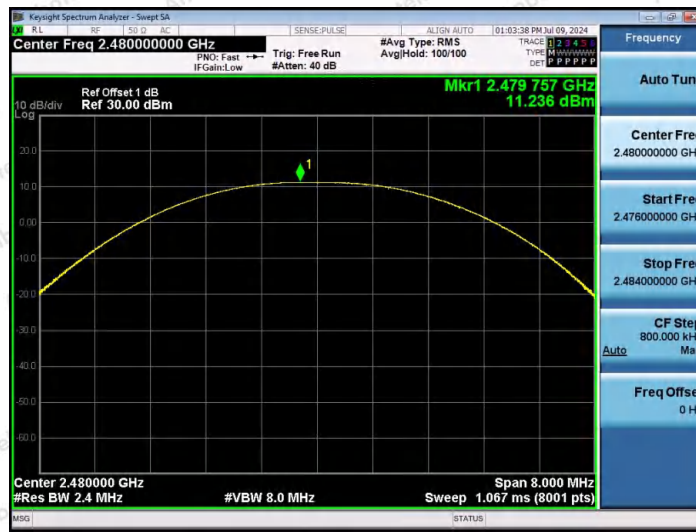
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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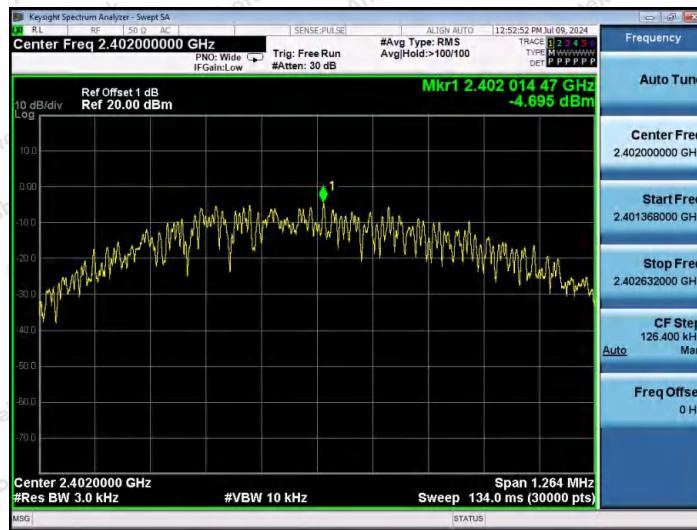
Appendix D: Maximum power spectral density

Test Result

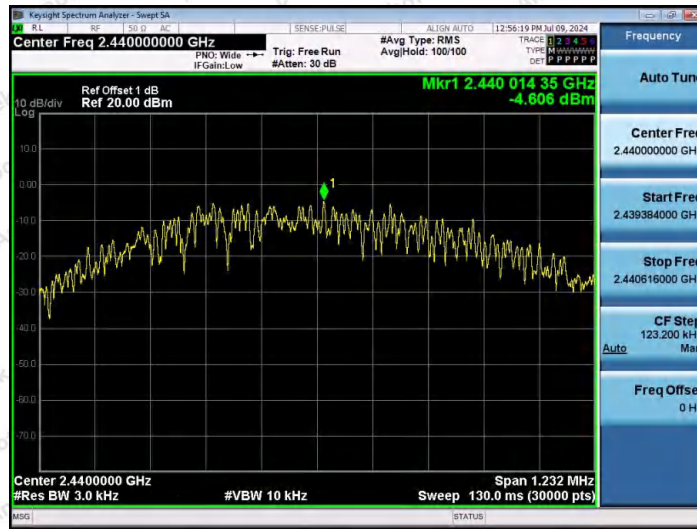
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.70	≤8.00	PASS
BLE_1M	Ant1	2440	-4.61	≤8.00	PASS
BLE_1M	Ant1	2480	-4.57	≤8.00	PASS
BLE_2M	Ant1	2402	-6.43	≤8.00	PASS
BLE_2M	Ant1	2440	-6.29	≤8.00	PASS
BLE_2M	Ant1	2480	-6.30	≤8.00	PASS



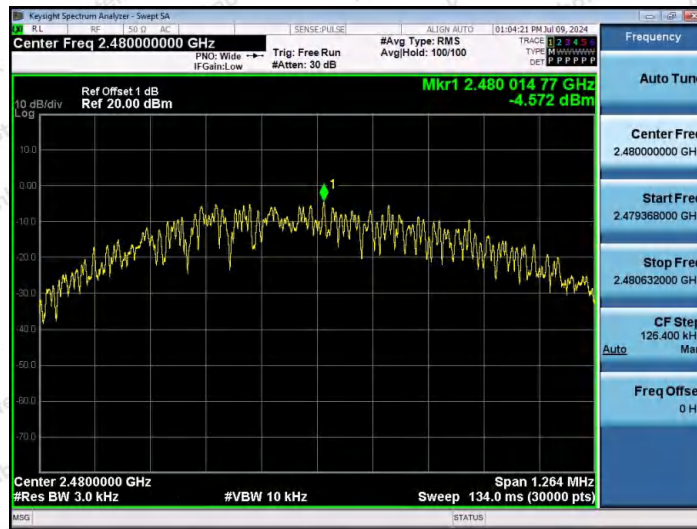
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



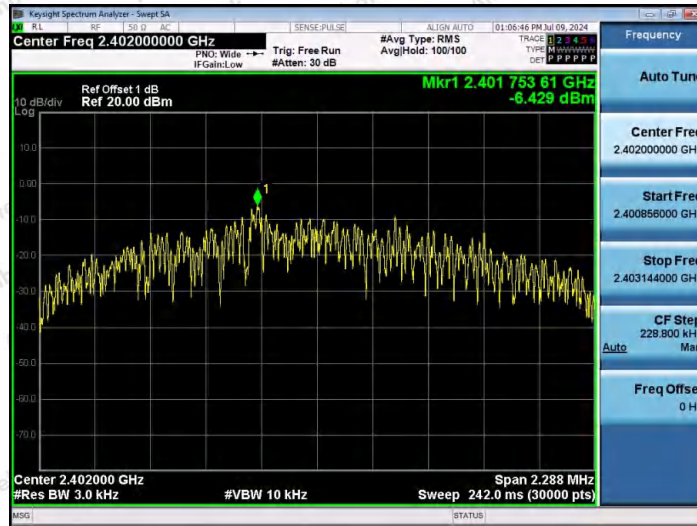
BLE_1M-Ant1-2480-PASS

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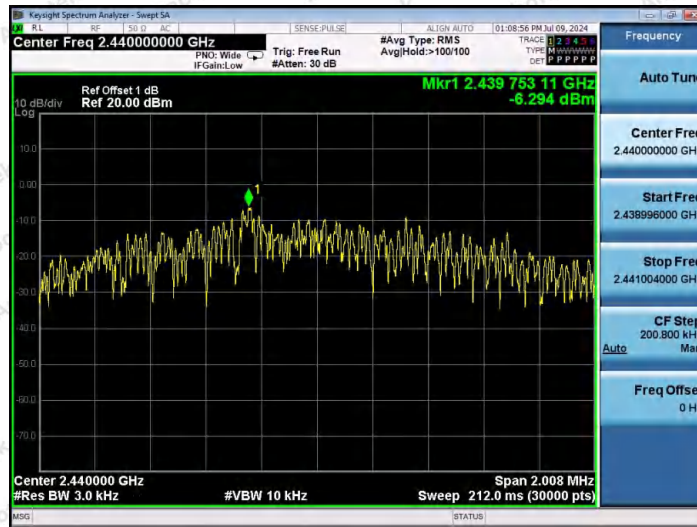
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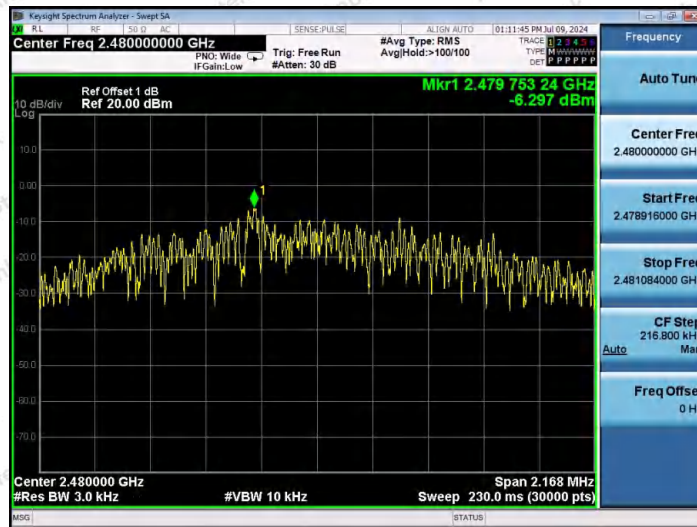




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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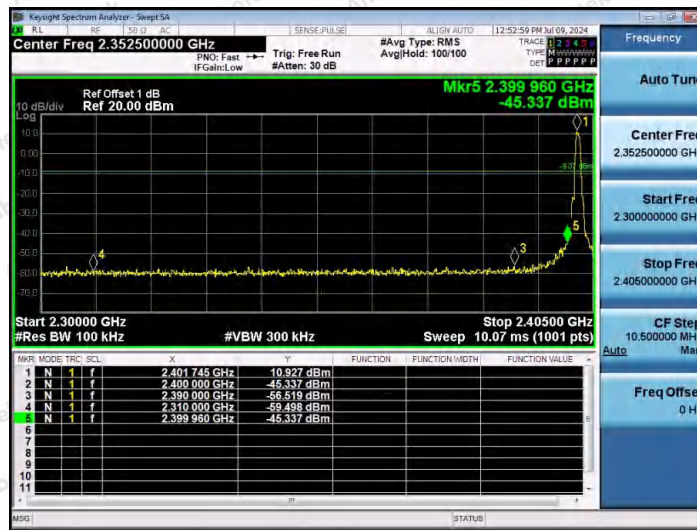
Appendix E: Band edge measurements

Test Result

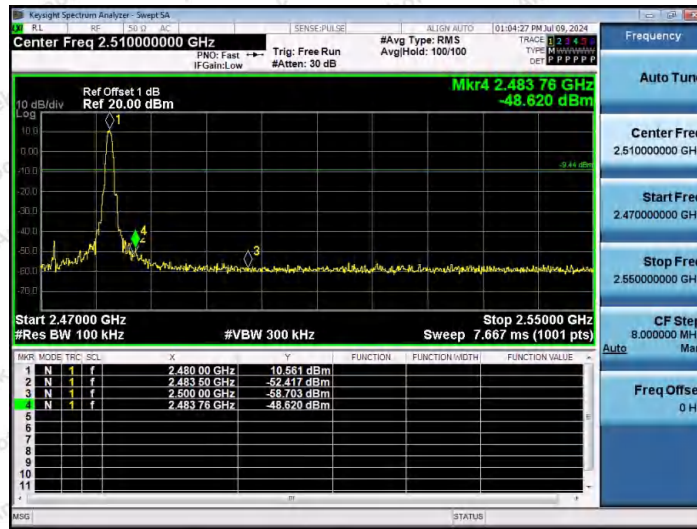
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.93	-45.34	≤-9.07	PASS
BLE_1M	Ant1	High	2480	10.56	-48.62	≤-9.44	PASS
BLE_2M	Ant1	Low	2402	9.53	-25.44	≤-10.47	PASS
BLE_2M	Ant1	High	2480	10.79	-39.71	≤-9.21	PASS



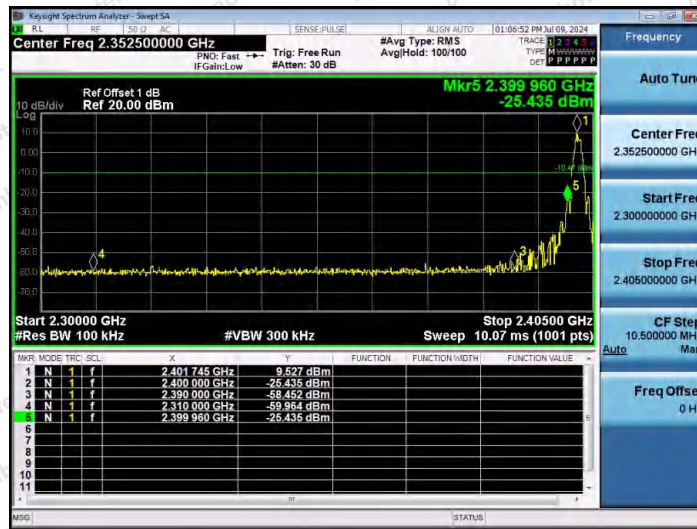
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



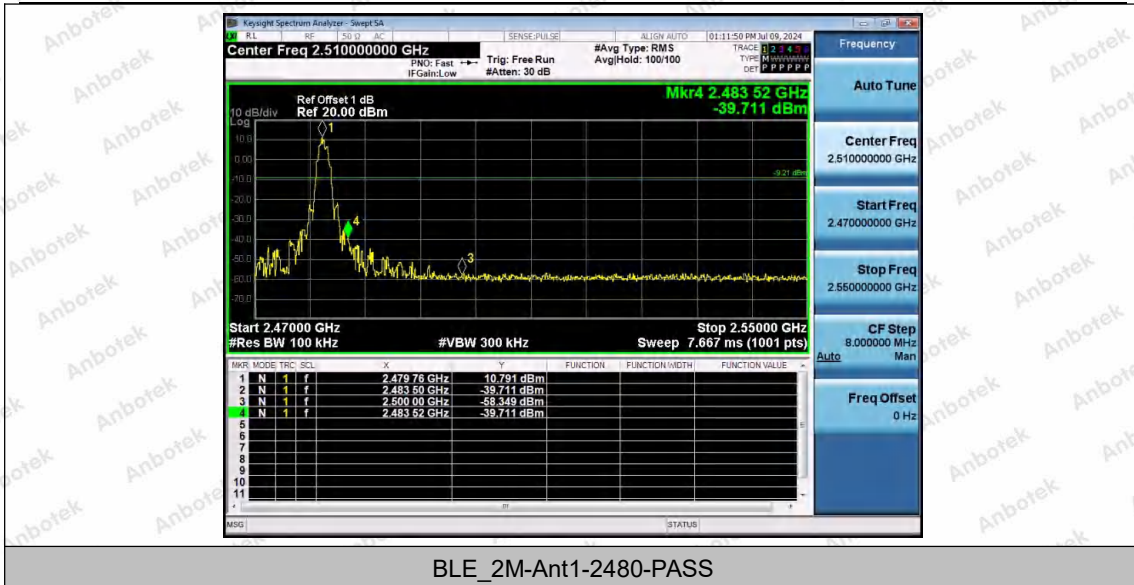
BLE_2M-Ant1-2402-PASS

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Appendix F: Conducted Spurious Emission

Test Result

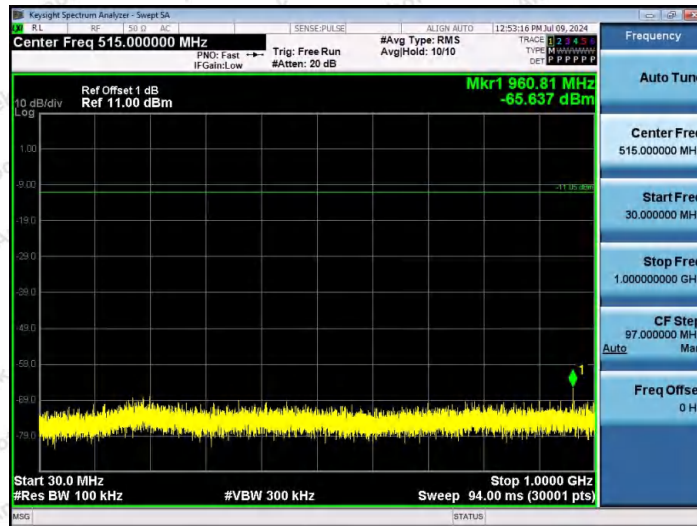
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	8.95	8.95	---	PASS
BLE_1M	Ant1	2402	30~1000	8.95	-65.64	≤-11.05	PASS
BLE_1M	Ant1	2402	1000~26500	8.95	-47.38	≤-11.05	PASS
BLE_1M	Ant1	2440	0~Reference	8.55	8.55	---	PASS
BLE_1M	Ant1	2440	30~1000	8.55	-67.27	≤-11.45	PASS
BLE_1M	Ant1	2440	1000~26500	8.55	-49.33	≤-11.45	PASS
BLE_1M	Ant1	2480	0~Reference	11.09	11.09	---	PASS
BLE_1M	Ant1	2480	30~1000	11.09	-68.6	≤-8.91	PASS
BLE_1M	Ant1	2480	1000~26500	11.09	-47.92	≤-8.91	PASS
BLE_2M	Ant1	2402	0~Reference	10.79	10.79	---	PASS
BLE_2M	Ant1	2402	30~1000	10.79	-68.88	≤-9.21	PASS
BLE_2M	Ant1	2402	1000~26500	10.79	-49.42	≤-9.21	PASS
BLE_2M	Ant1	2440	0~Reference	7.23	7.23	---	PASS
BLE_2M	Ant1	2440	30~1000	7.23	-68.49	≤-12.77	PASS
BLE_2M	Ant1	2440	1000~26500	7.23	-51.87	≤-12.77	PASS
BLE_2M	Ant1	2480	0~Reference	9.88	9.88	---	PASS
BLE_2M	Ant1	2480	30~1000	9.88	-68.86	≤-10.12	PASS
BLE_2M	Ant1	2480	1000~26500	9.88	-51.11	≤-10.12	PASS



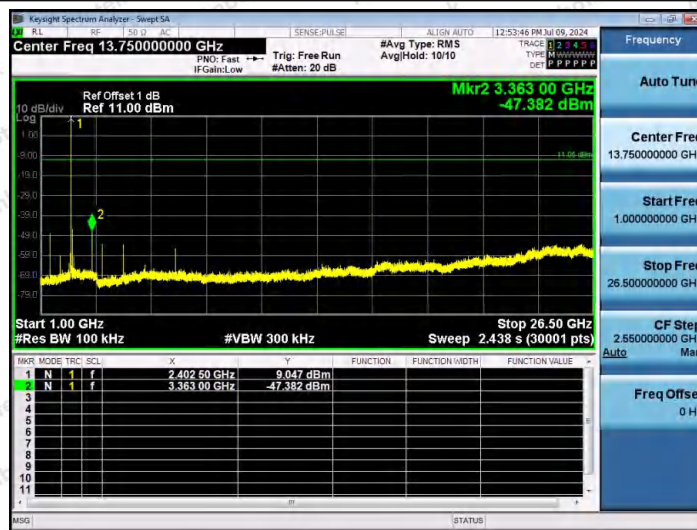
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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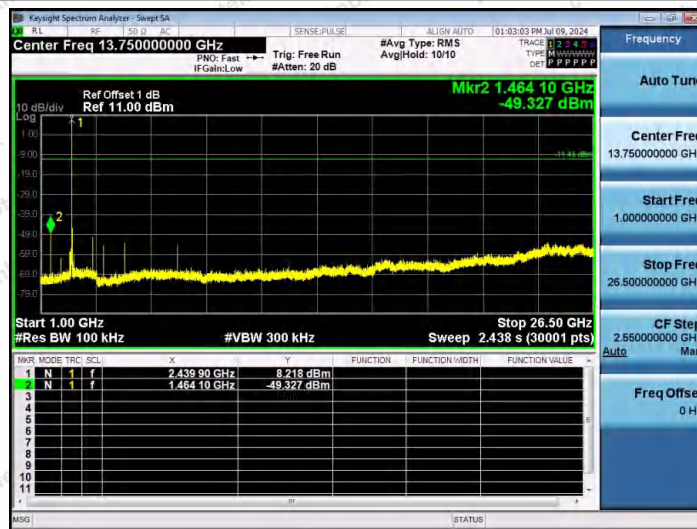




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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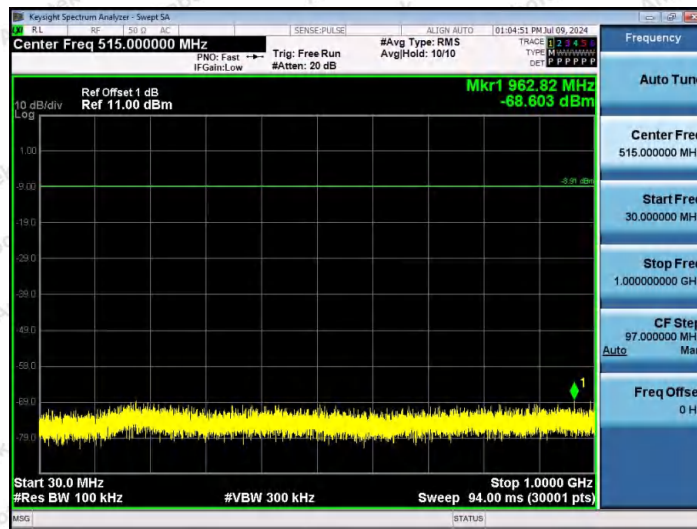
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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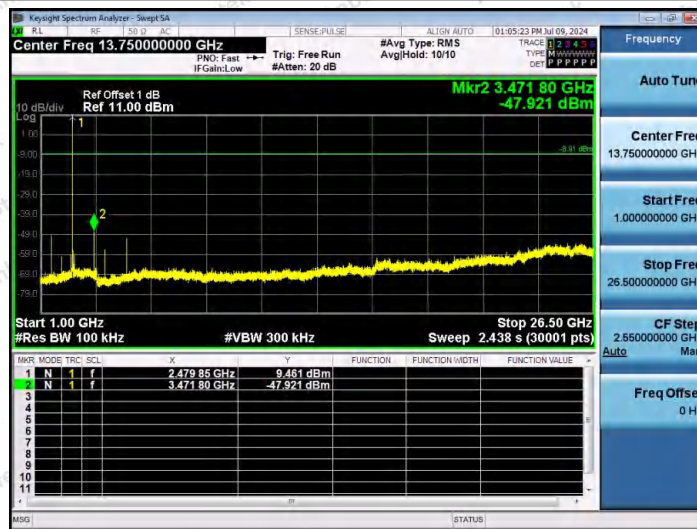




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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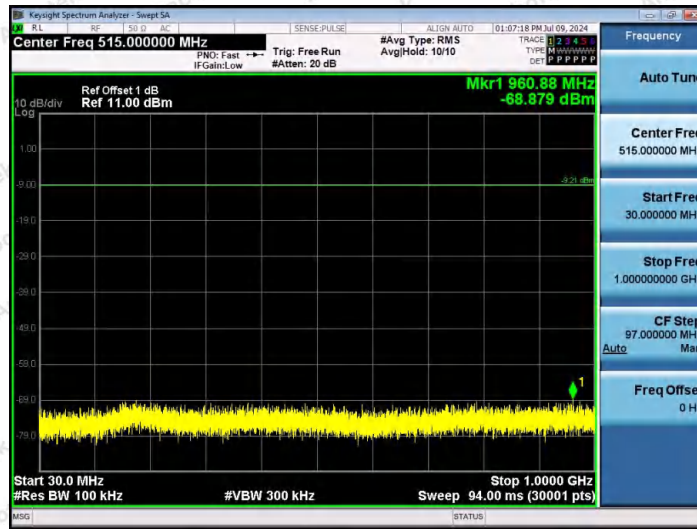
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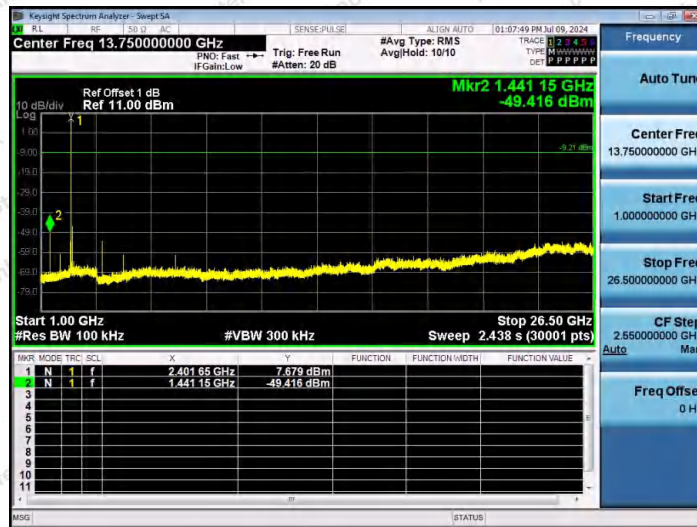




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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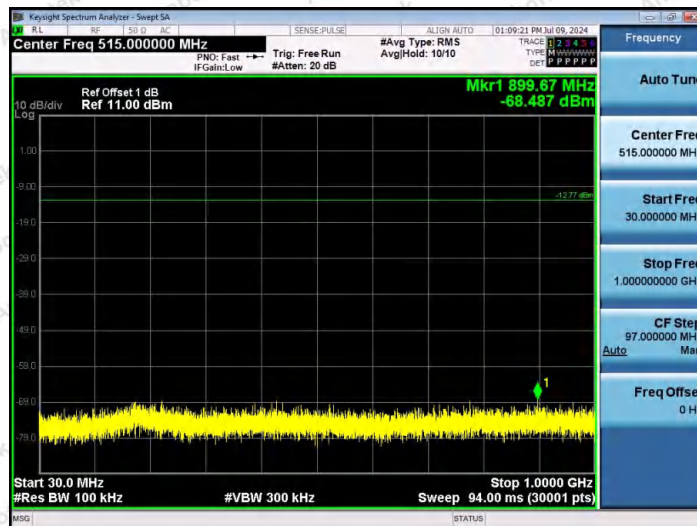
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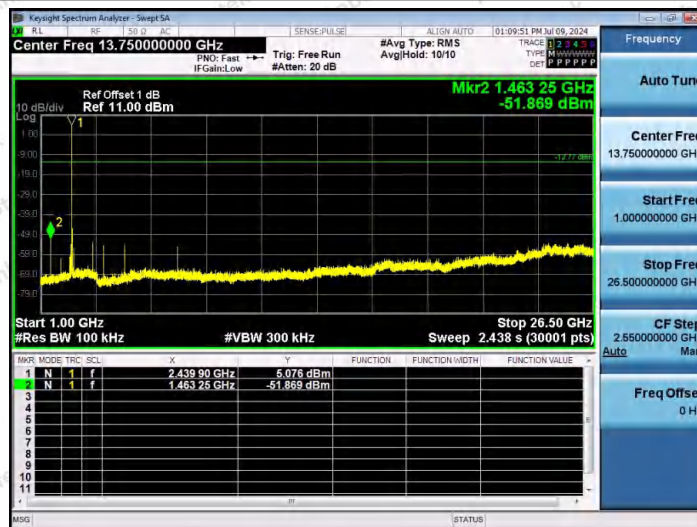




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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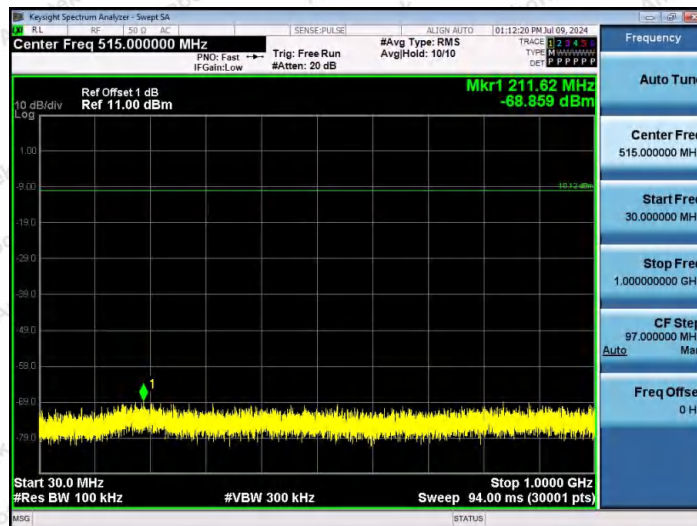
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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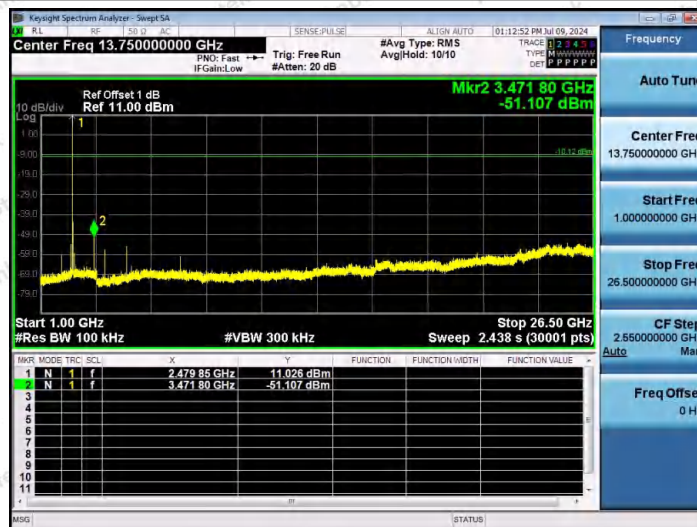




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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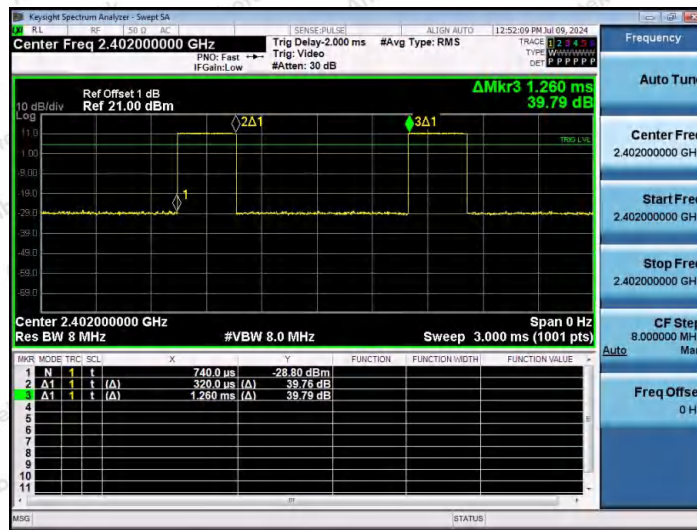
Appendix G: Duty Cycle

Test Result

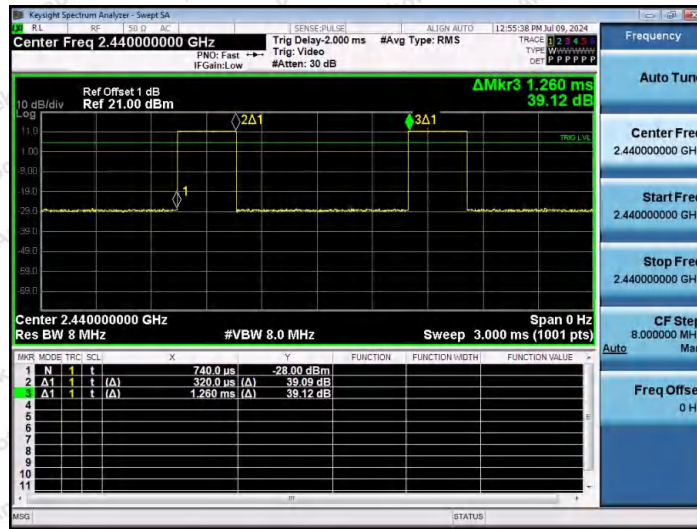
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.32	1.26	25.40	5.95
BLE_1M	Ant1	2440	0.32	1.26	25.40	5.95
BLE_1M	Ant1	2480	0.32	1.26	25.40	5.95
BLE_2M	Ant1	2402	0.18	1.26	14.29	8.45
BLE_2M	Ant1	2440	0.18	1.26	14.29	8.45
BLE_2M	Ant1	2480	0.18	1.25	14.40	8.42



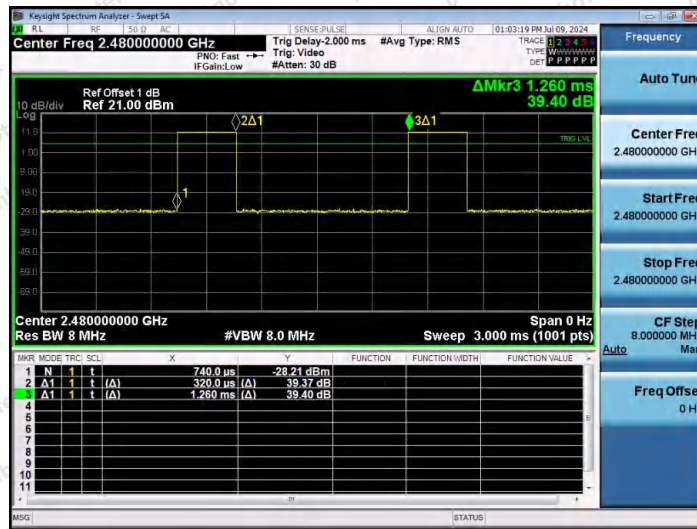
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



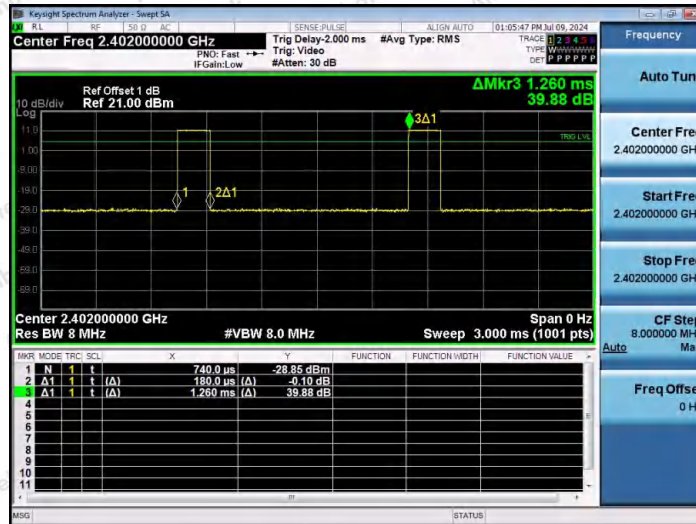
NTNV-BLE_1M-Ant1-2480

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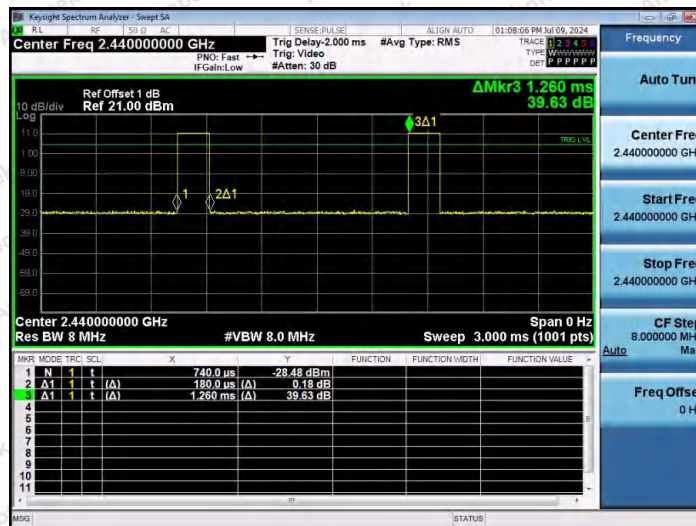
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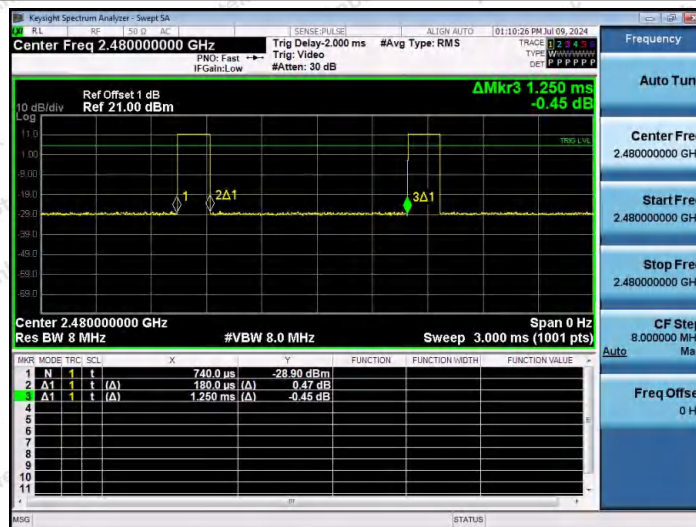




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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