

Appendix Test Data

Report No.:	182513C400012101	Test Sample No.:	1-2-2
Start Test Date:	2024.5.28	Finish Test Date:	2024.6.6
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.4°C	Relative Humidity:	49%
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	0.692	2401.656	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.640	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.668	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.272	2401.332	2402.604	0.5	PASS
BLE_2M	Ant1	2440	1.316	2439.324	2440.640	0.5	PASS
BLE_2M	Ant1	2480	1.240	2479.352	2480.592	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-Ant1-240-PASS



BLE_2M-Ant1-244-PASS



BLE_2M-Ant1-248-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	1.0246	2401.4828	2402.5074	---	---
BLE_1M	Ant1	2440	1.0306	2439.4848	2440.5154	---	---
BLE_1M	Ant1	2480	1.0328	2479.4823	2480.5151	---	---
BLE_2M	Ant1	2402	2.0674	2400.9853	2403.0527	---	---
BLE_2M	Ant1	2440	2.1326	2438.9446	2441.0772	---	---
BLE_2M	Ant1	2480	2.1181	2478.9539	2481.0720	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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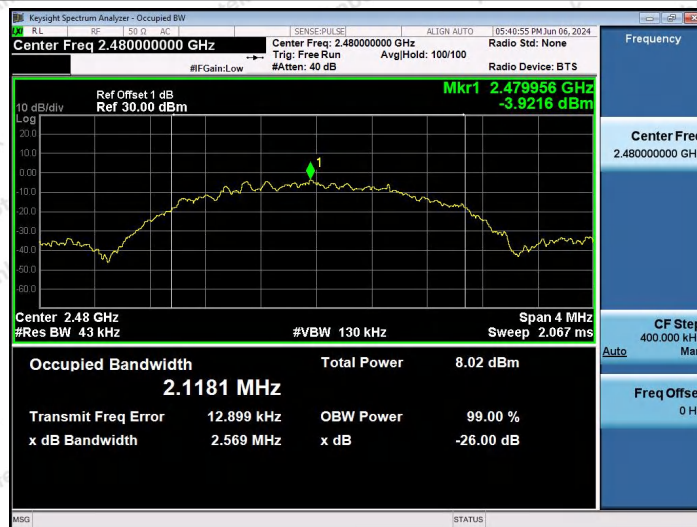




BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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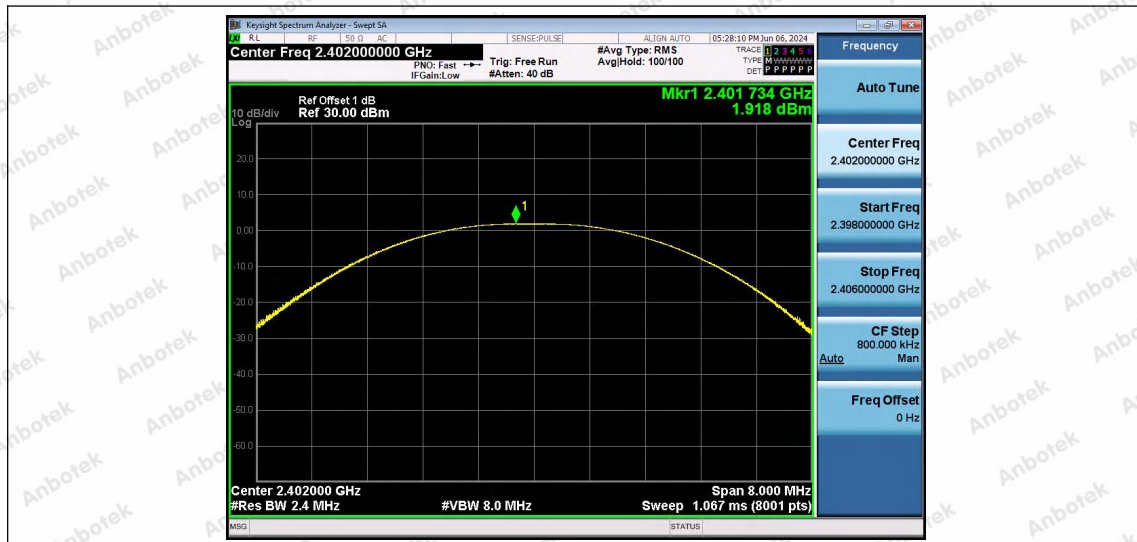


Appendix C: Maximum output power

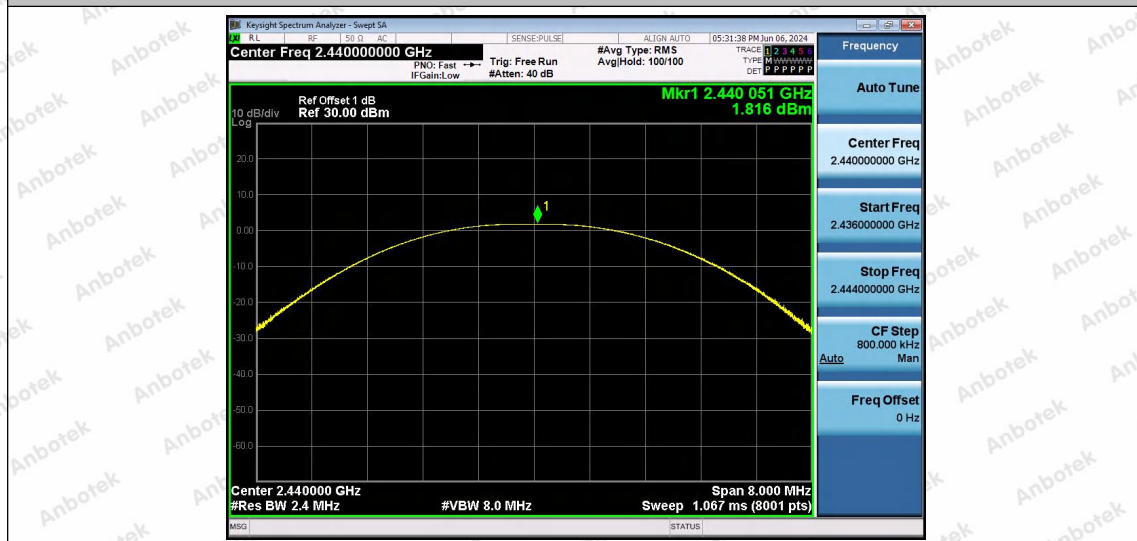
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.92	≤30	1.92	≤36	PASS
BLE_1M	Ant1	2440	1.82	≤30	1.82	≤36	PASS
BLE_1M	Ant1	2480	1.78	≤30	1.78	≤36	PASS
BLE_2M	Ant1	2402	2.02	≤30	2.02	≤36	PASS
BLE_2M	Ant1	2440	1.87	≤30	1.87	≤36	PASS
BLE_2M	Ant1	2480	1.80	≤30	1.80	≤36	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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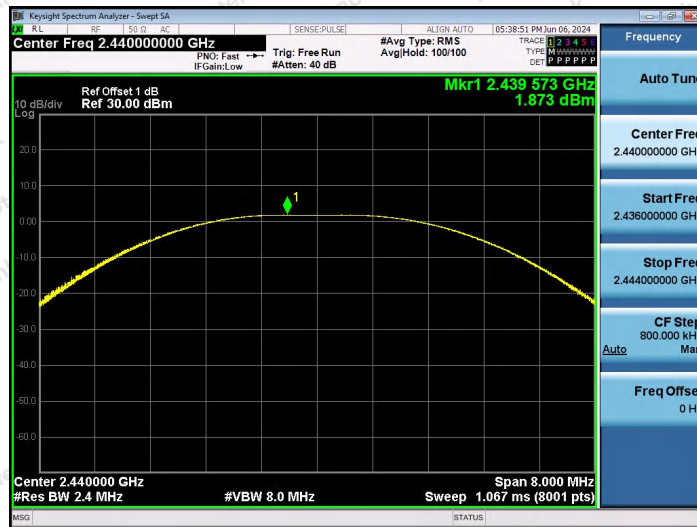




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



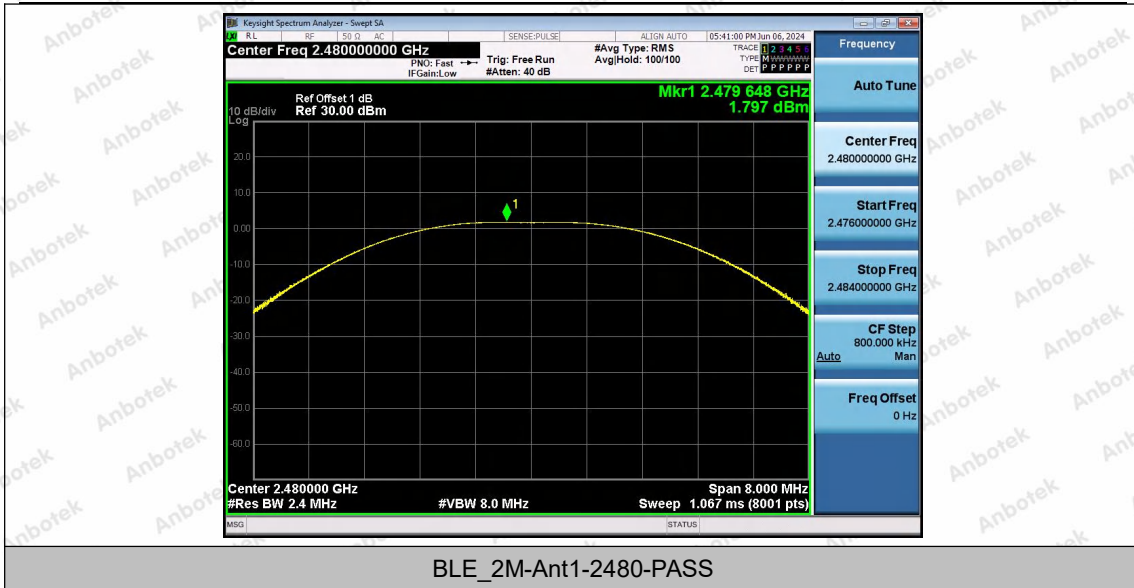
BLE_2M-Ant1-2440-PASS

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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	-14.20	≤8.00	PASS
BLE_1M	Ant1	2440	-14.26	≤8.00	PASS
BLE_1M	Ant1	2480	-14.45	≤8.00	PASS
BLE_2M	Ant1	2402	-17.34	≤8.00	PASS
BLE_2M	Ant1	2440	-17.48	≤8.00	PASS
BLE_2M	Ant1	2480	-17.61	≤8.00	PASS

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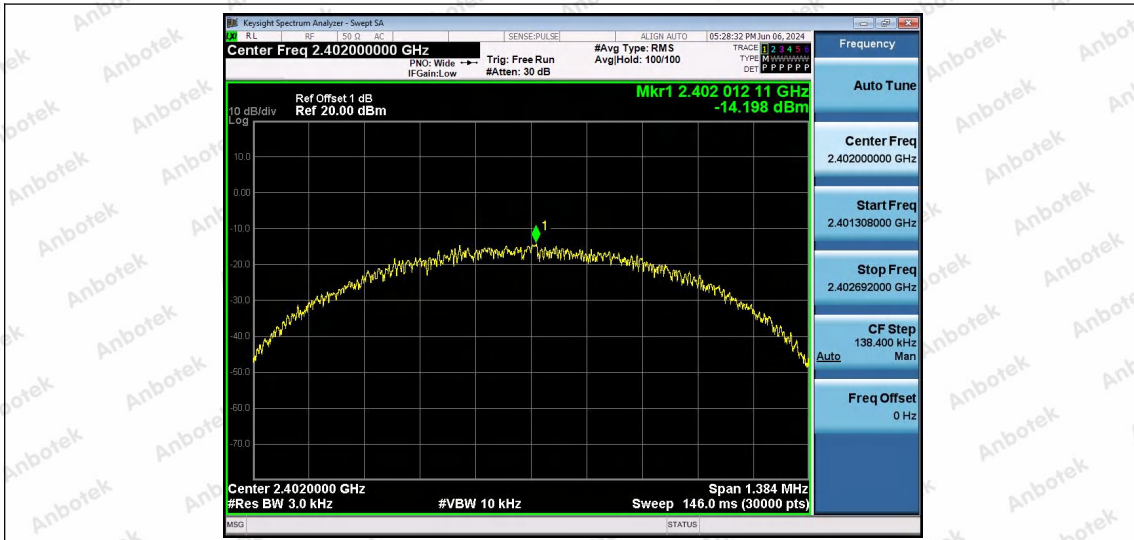
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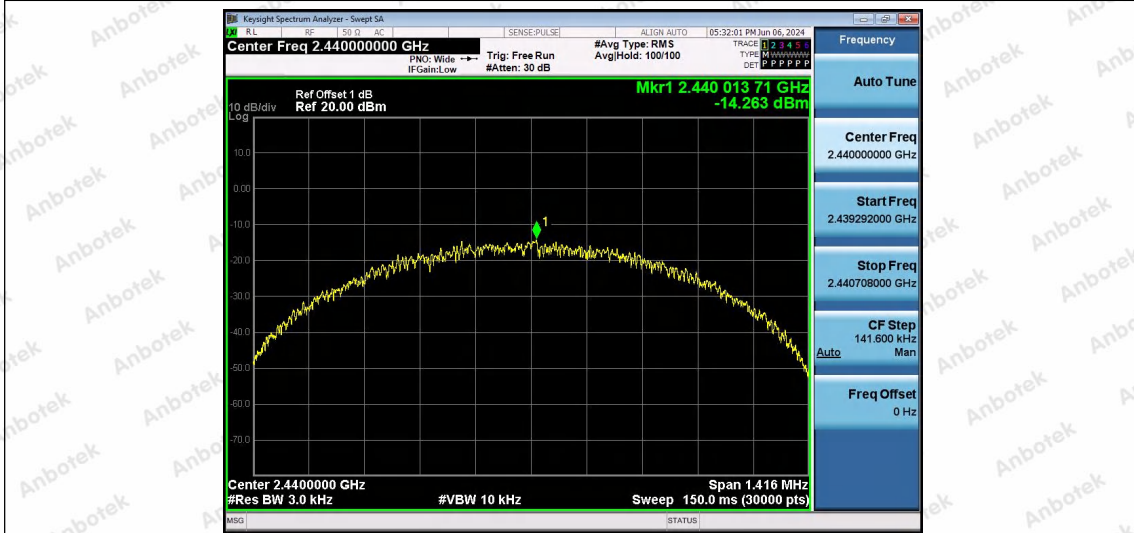
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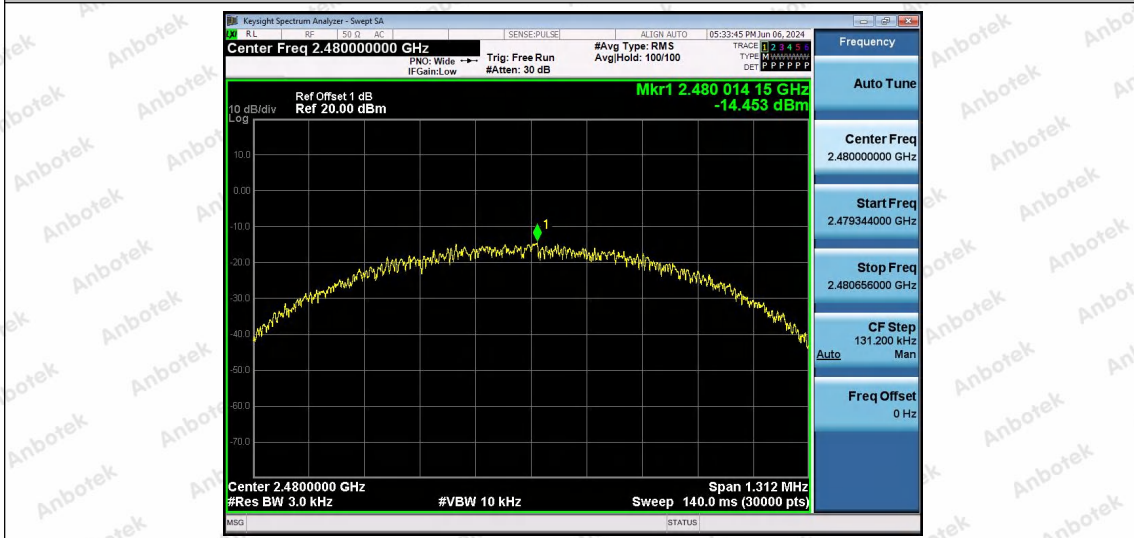
Test Graphs



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 E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.26	-42.69	≤-18.74	PASS
BLE_1M	Ant1	High	2480	1.52	-54.71	≤-18.48	PASS
BLE_2M	Ant1	Low	2402	-0.74	-33.87	≤-20.74	PASS
BLE_2M	Ant1	High	2480	-0.61	-50.81	≤-20.61	PASS

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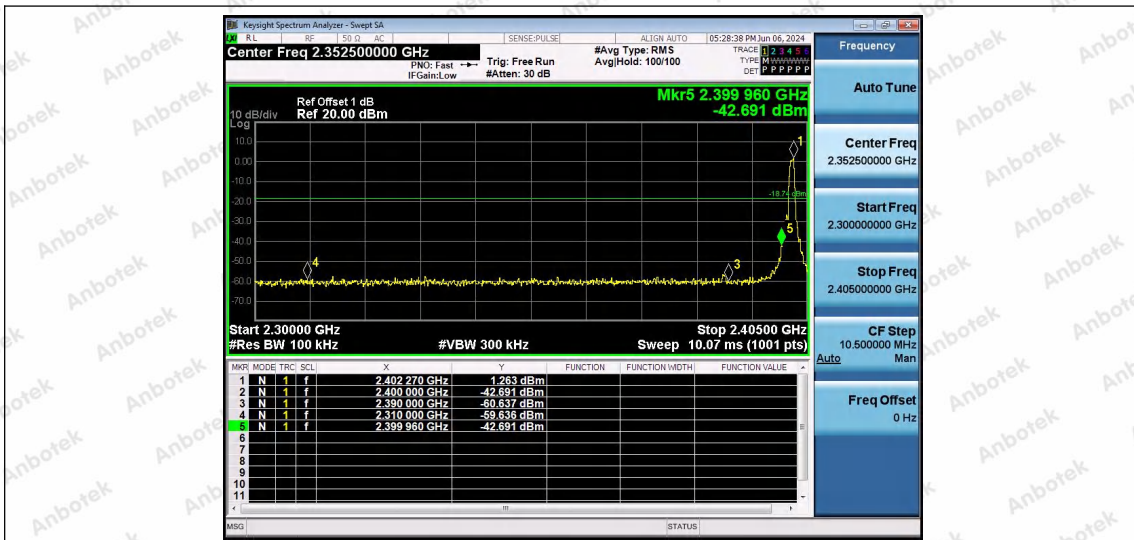
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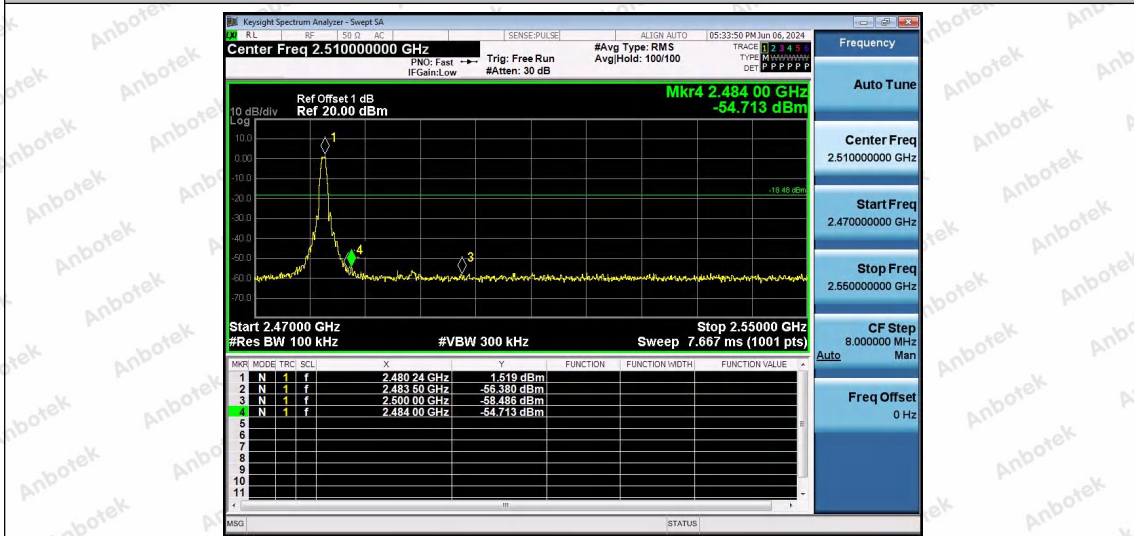
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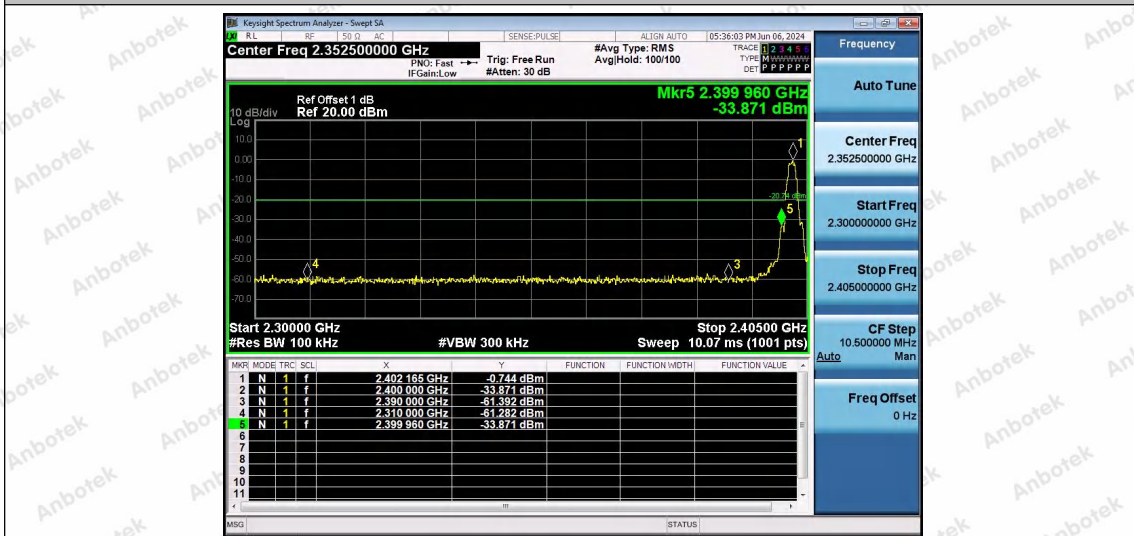
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



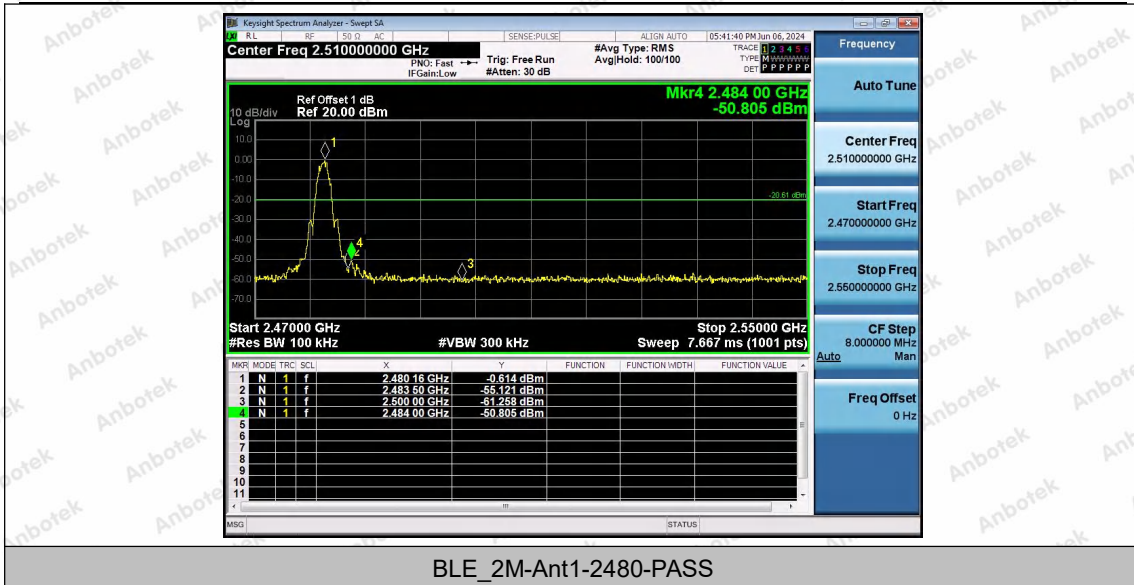
BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2480-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	0.12	0.12	---	PASS
BLE_1M	Ant1	2402	30~1000	0.12	-60.07	≤-19.88	PASS
BLE_1M	Ant1	2402	1000~26500	0.12	-49.64	≤-19.88	PASS
BLE_1M	Ant1	2440	0~Reference	0.38	0.38	---	PASS
BLE_1M	Ant1	2440	30~1000	0.38	-68.67	≤-19.62	PASS
BLE_1M	Ant1	2440	1000~26500	0.38	-50.77	≤-19.62	PASS
BLE_1M	Ant1	2480	0~Reference	0.84	0.84	---	PASS
BLE_1M	Ant1	2480	30~1000	0.84	-61.52	≤-19.16	PASS
BLE_1M	Ant1	2480	1000~26500	0.84	-52.76	≤-19.16	PASS
BLE_2M	Ant1	2402	0~Reference	0.00	0.00	---	PASS
BLE_2M	Ant1	2402	30~1000	0.00	-56.01	≤-20	PASS
BLE_2M	Ant1	2402	1000~26500	0.00	-51.54	≤-20	PASS
BLE_2M	Ant1	2440	0~Reference	0.07	0.07	---	PASS
BLE_2M	Ant1	2440	30~1000	0.07	-56.57	≤-19.93	PASS
BLE_2M	Ant1	2440	1000~26500	0.07	-49.9	≤-19.93	PASS
BLE_2M	Ant1	2480	0~Reference	0.65	0.65	---	PASS
BLE_2M	Ant1	2480	30~1000	0.65	-63.24	≤-19.35	PASS
BLE_2M	Ant1	2480	1000~26500	0.65	-53.77	≤-19.35	PASS

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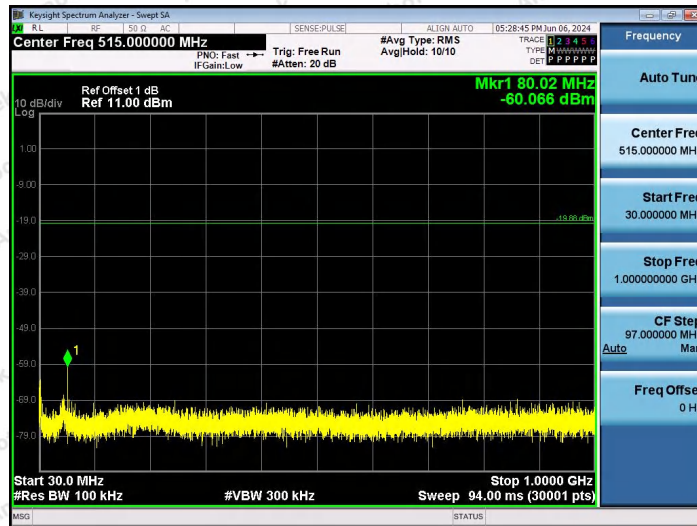
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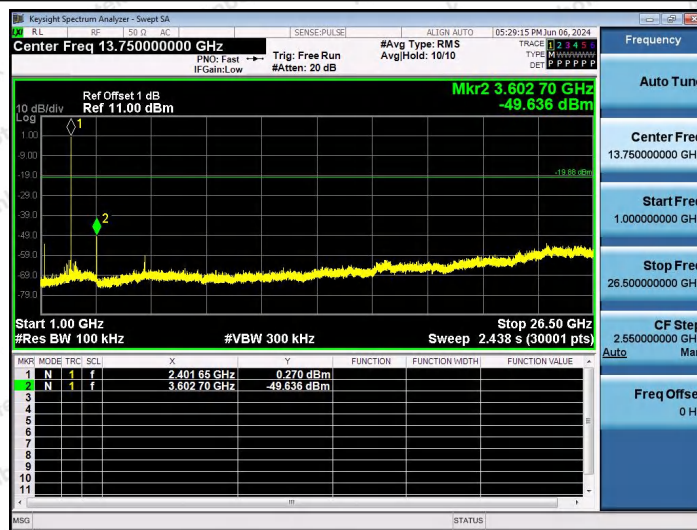
Test Graphs



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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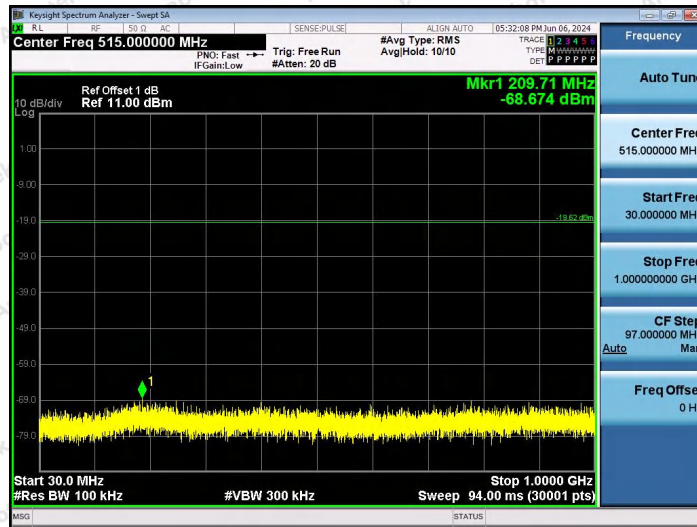
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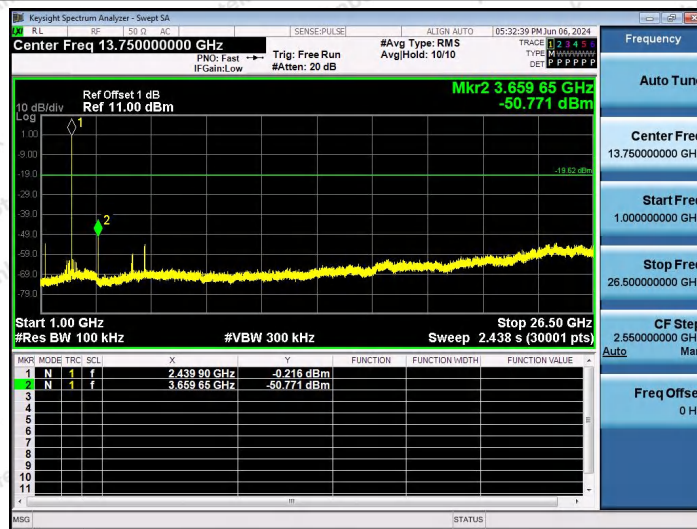




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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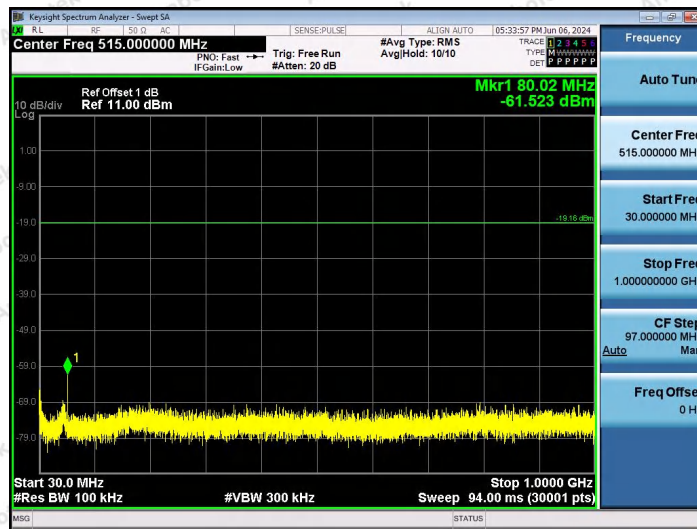
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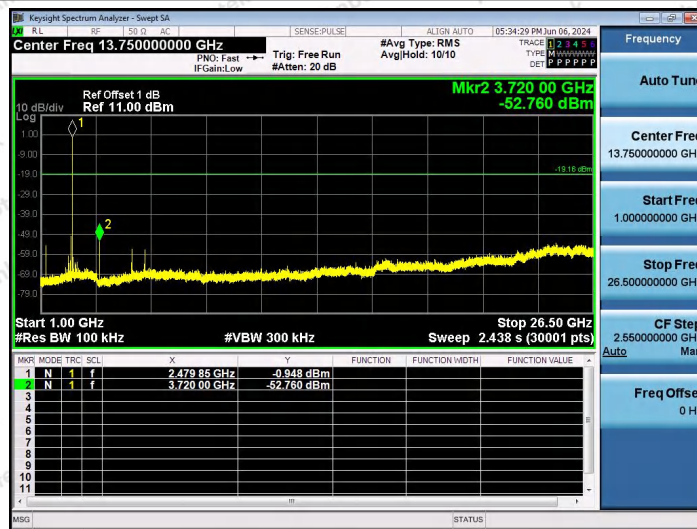




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



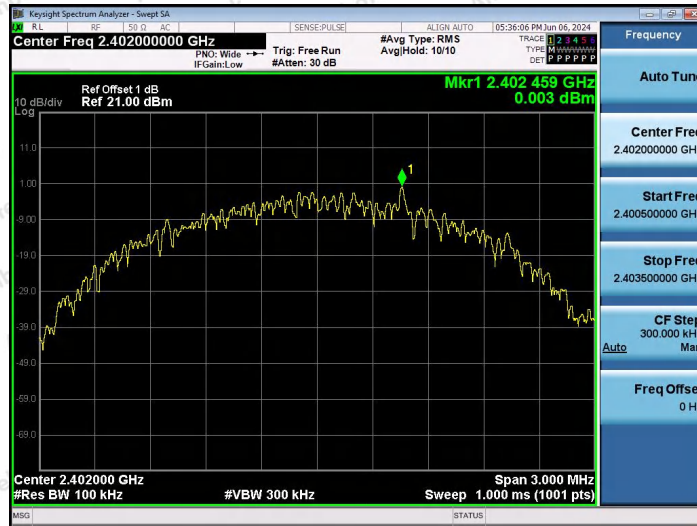
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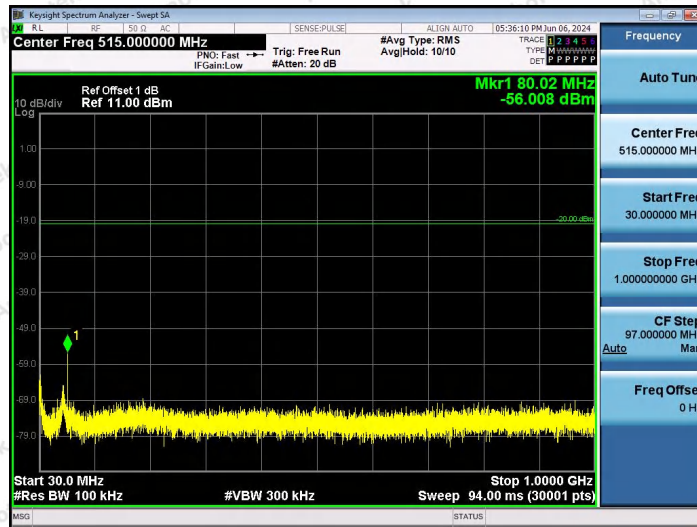
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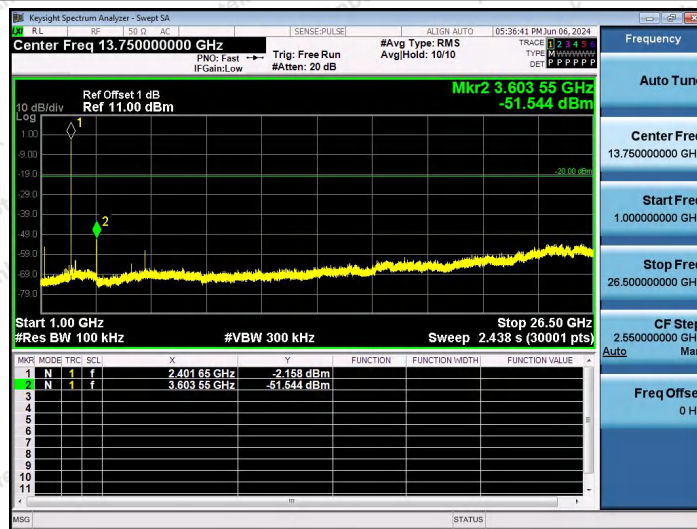




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BLE_2M-Ant1-2402-30~1000-PASS



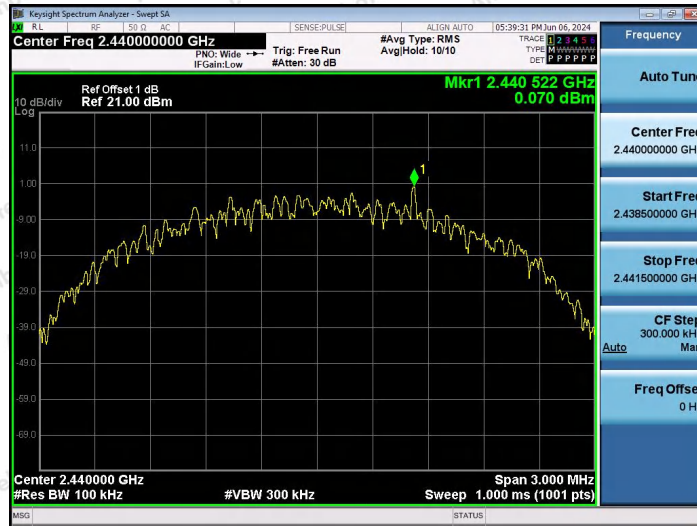
BLE_2M-Ant1-2402-1000~26500-PASS

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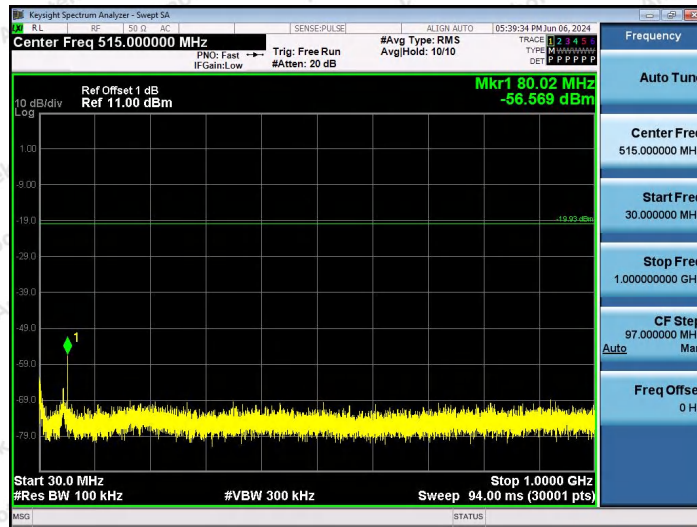
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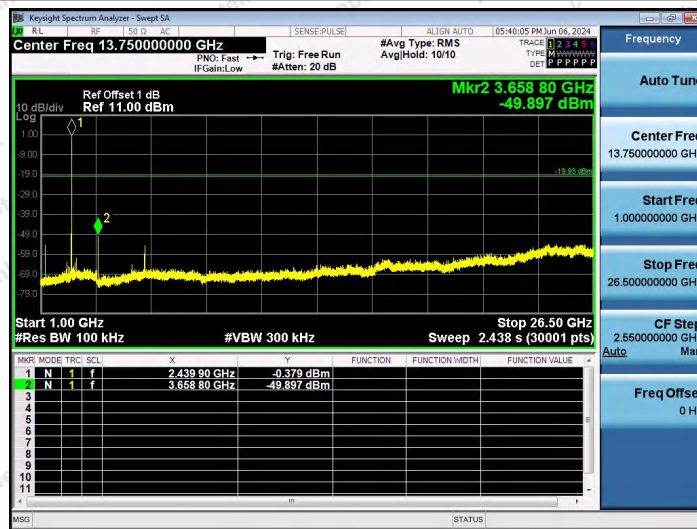




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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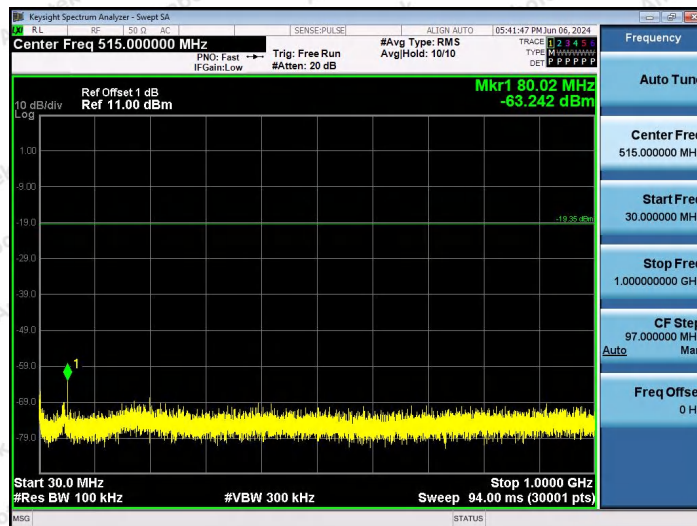
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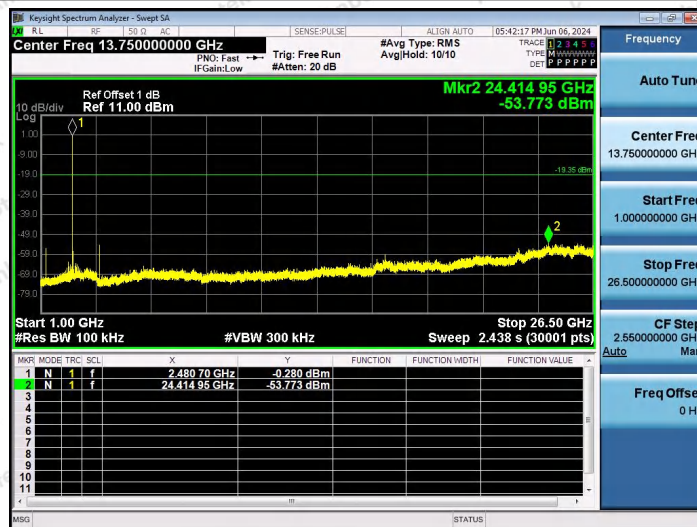




BLE_2M-Ant1-2480-0~Reference-PASS



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	2.12	2.50	84.80	0.72
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	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45

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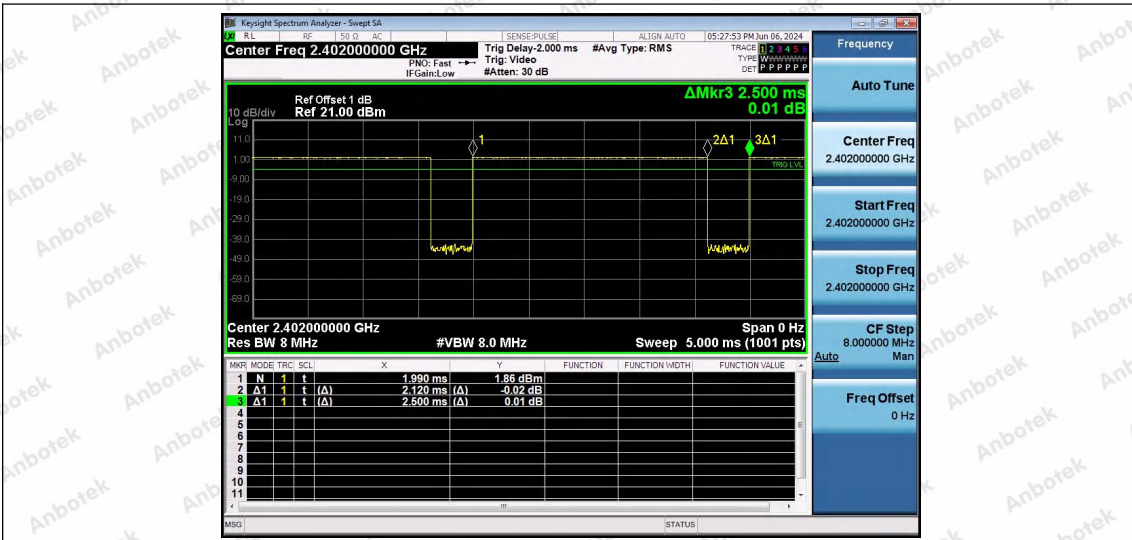
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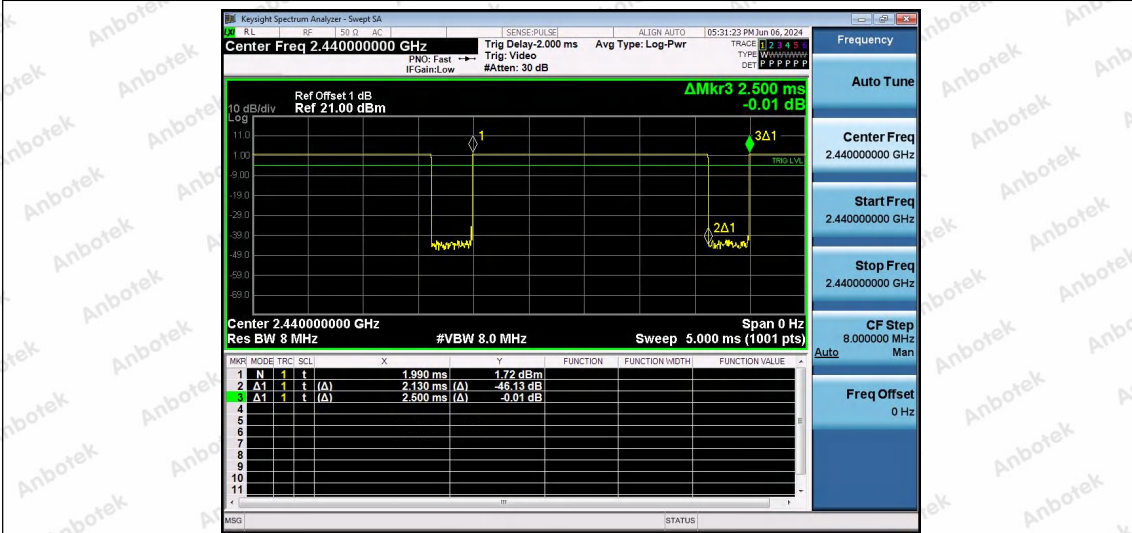
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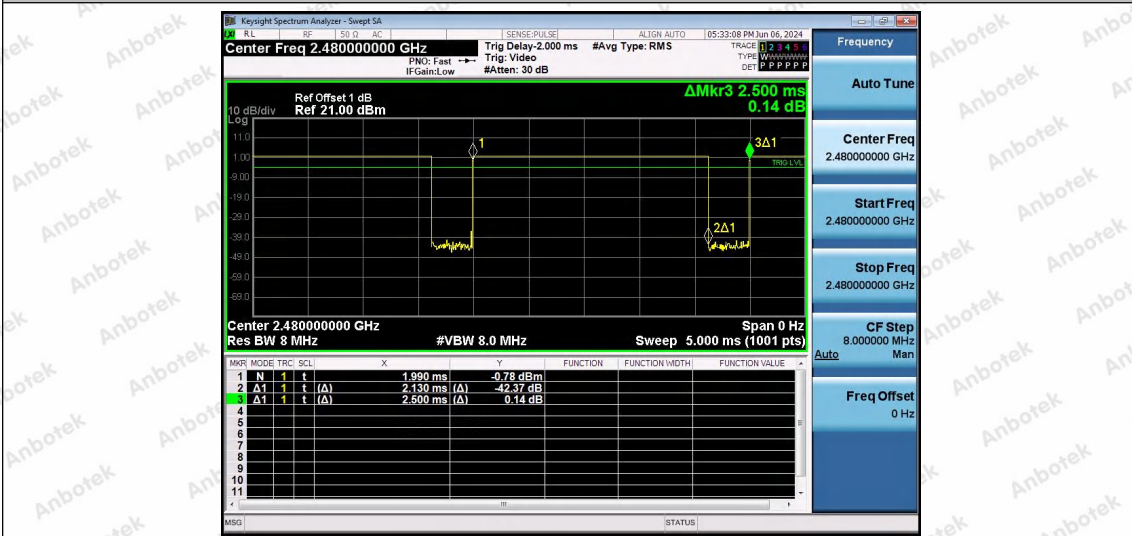
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

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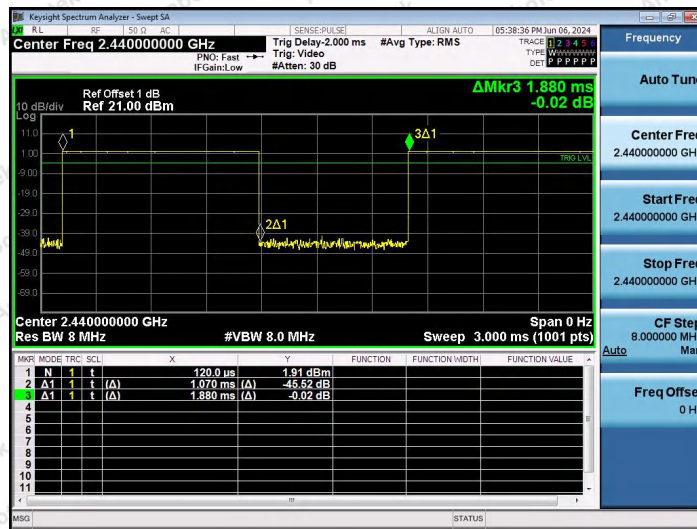
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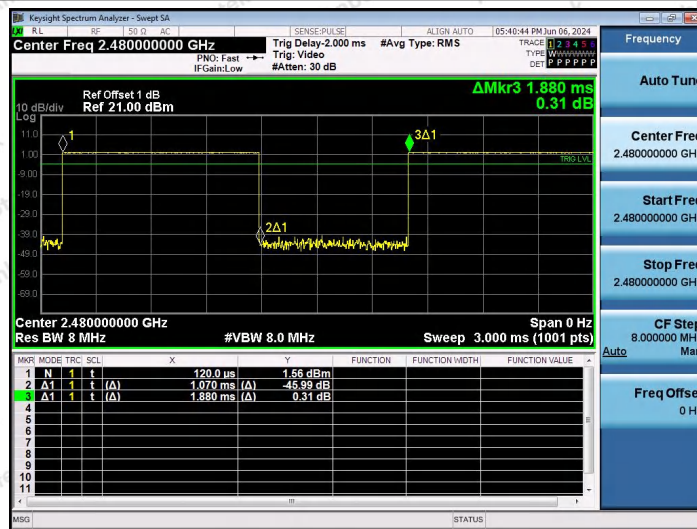




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

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Shenzhen Anbotek Compliance Laboratory Limited

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

Hotline 400-003-0500
 www.anbotek.com.cn

