

Appendix Test Data

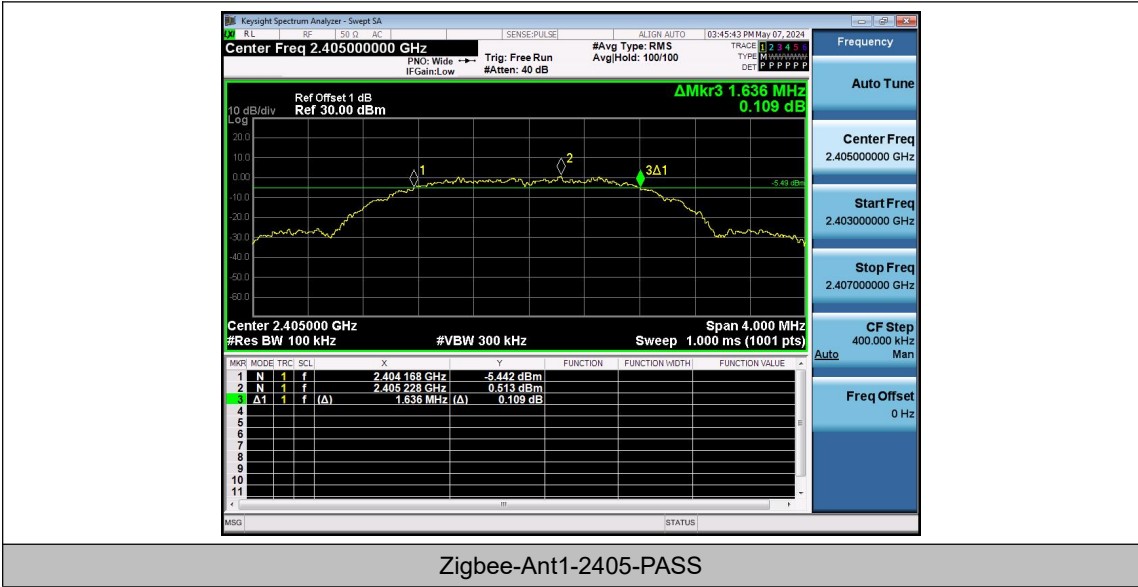
Report No.:	1812C40204712503	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.07
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

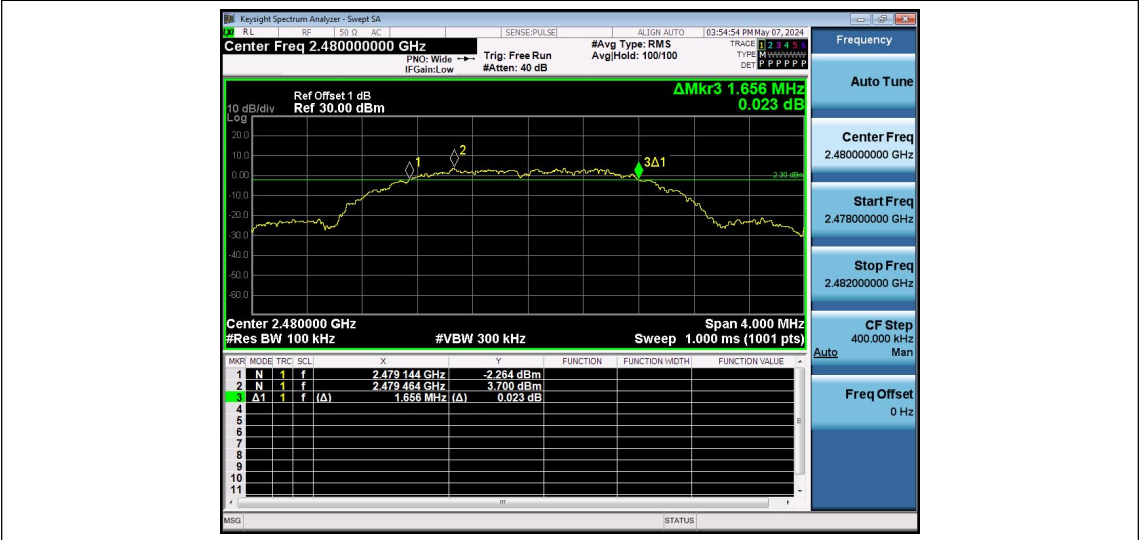
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.636	2404.168	2405.804	0.5	PASS
Zigbee	Ant1	2440	1.628	2439.168	2440.796	0.5	PASS
Zigbee	Ant1	2480	1.656	2479.144	2480.800	0.5	PASS

Test Graphs





Zigbee-Ant1-2440-PASS



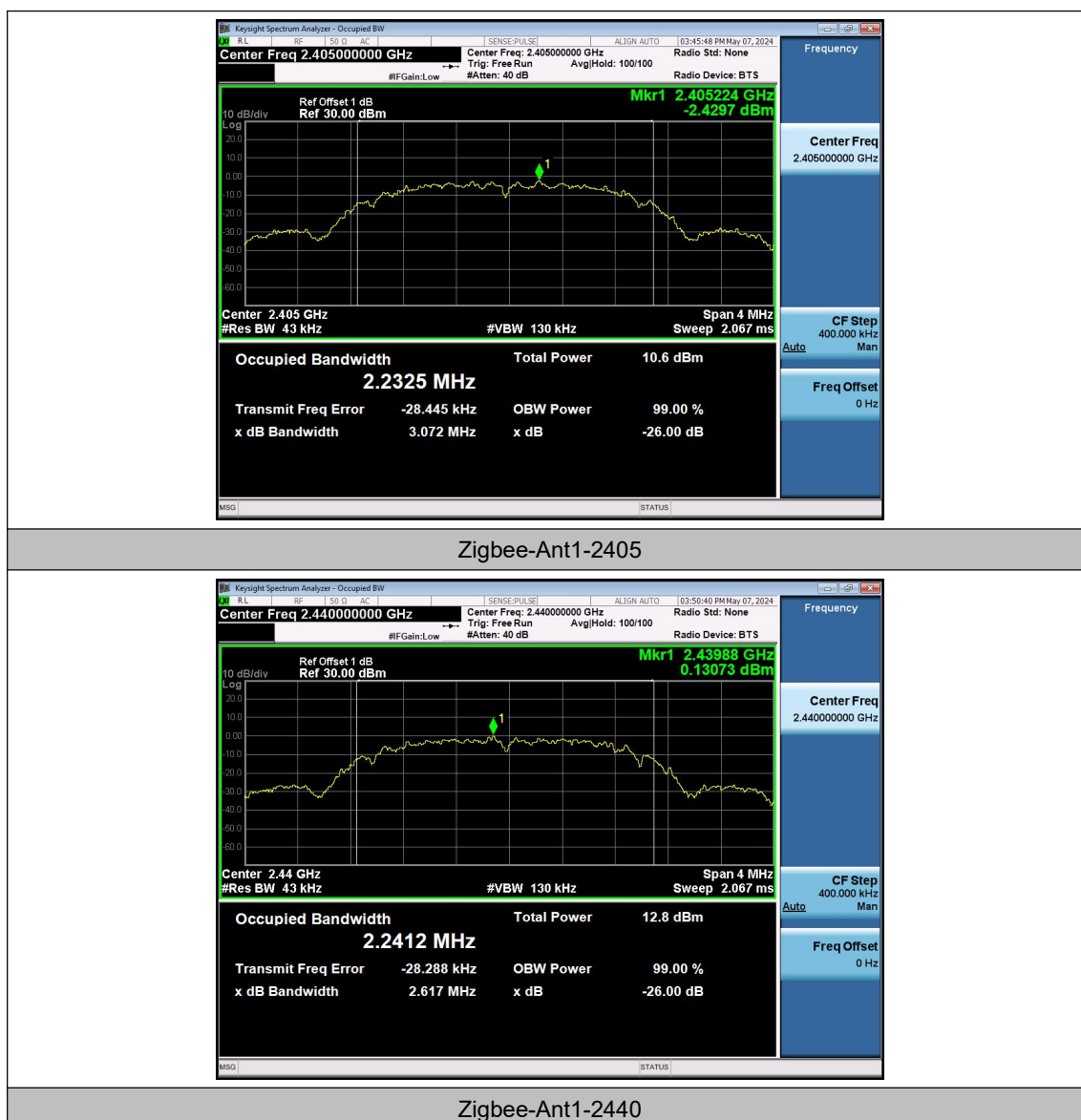
Zigbee-Ant1-2480-PASS

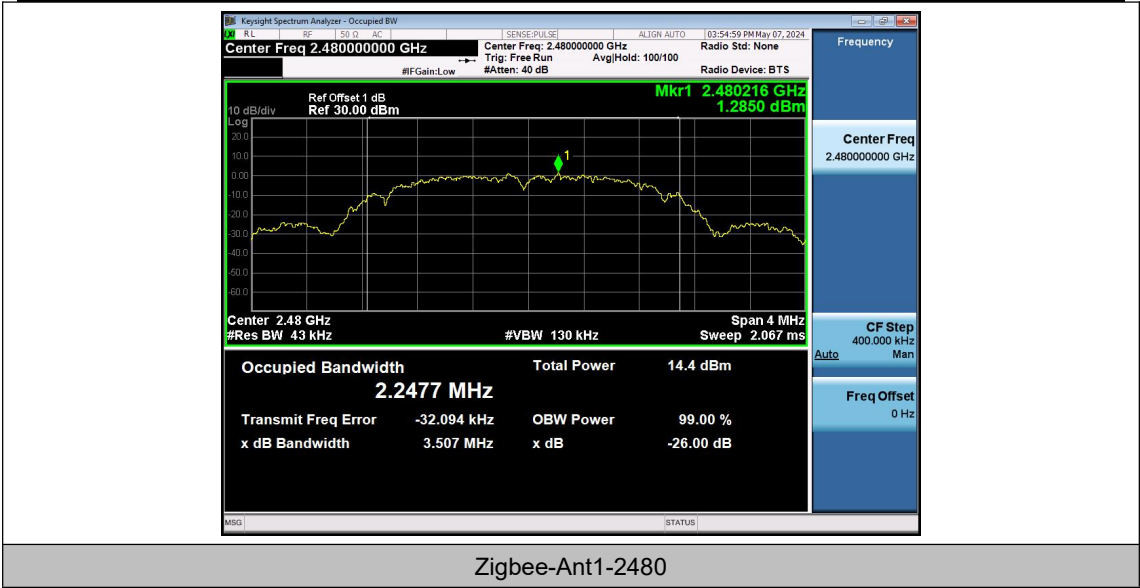
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	2.2325	2403.8553	2406.0878	---	---
Zigbee	Ant1	2440	2.2412	2438.8511	2441.0923	---	---
Zigbee	Ant1	2480	2.2477	2478.8441	2481.0918	---	---

Test Graphs





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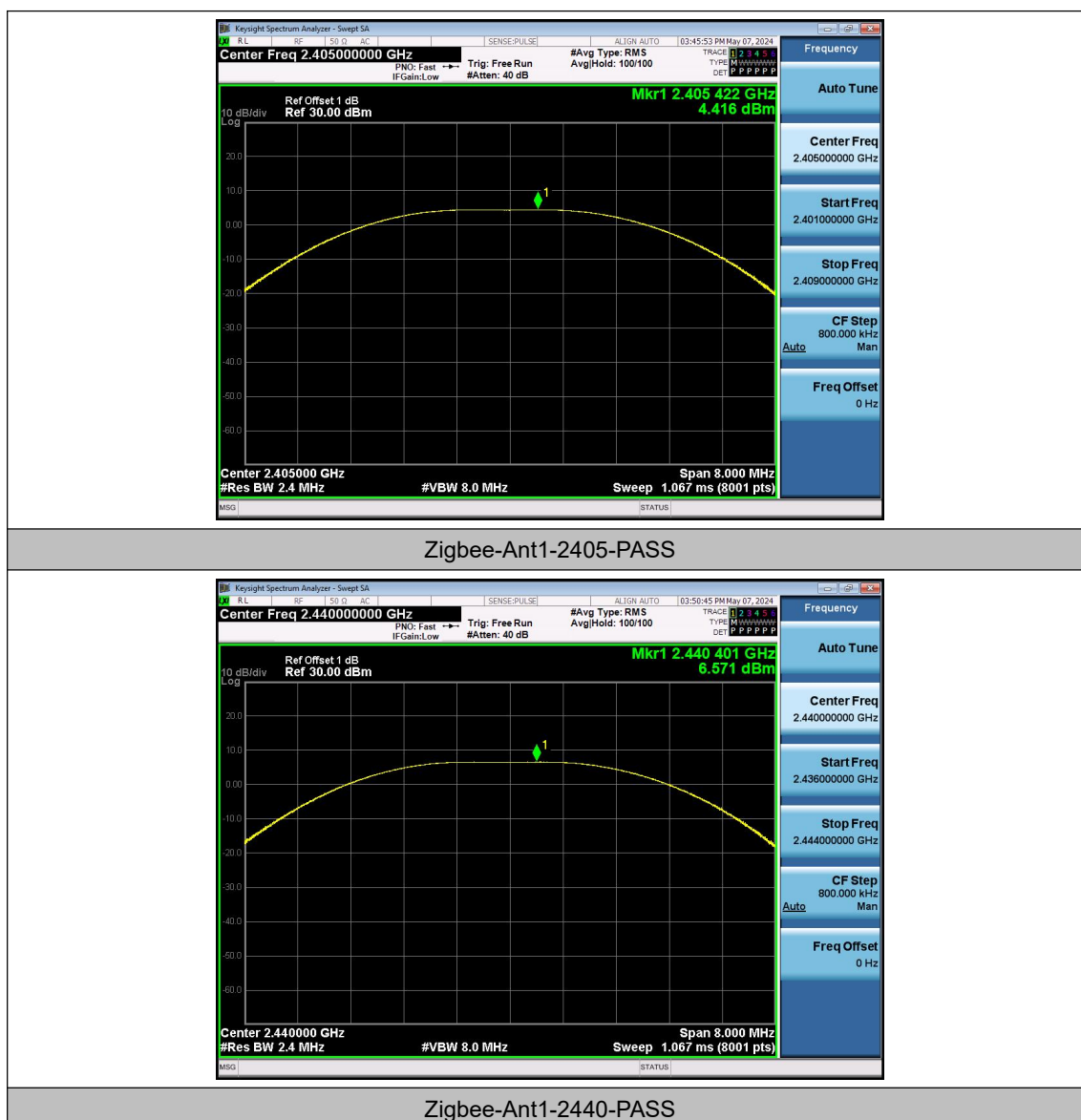
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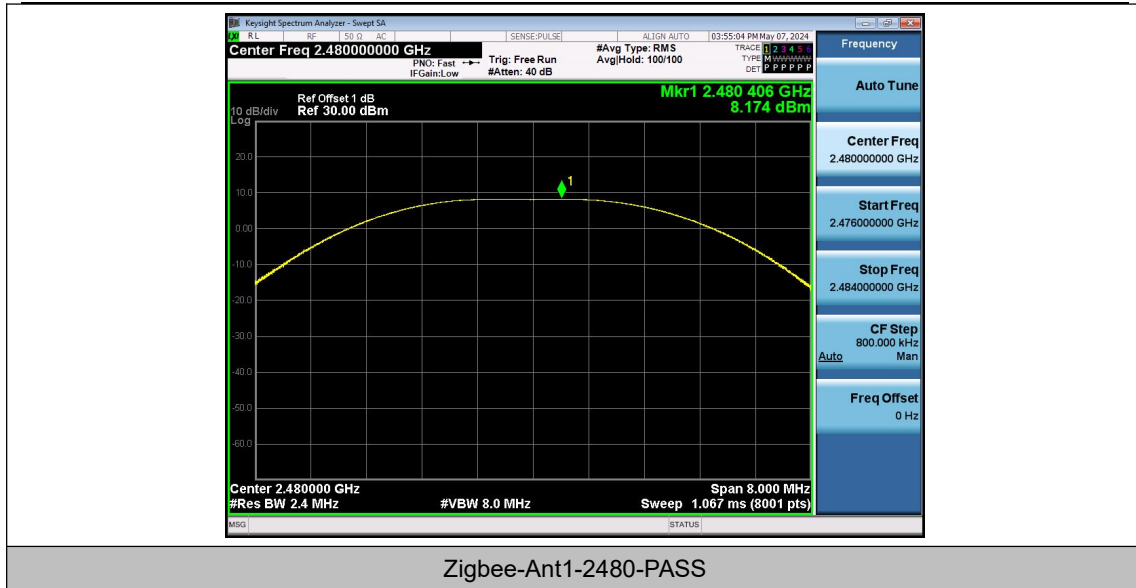
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Zigbee	Ant1	2405	4.42	≤30	PASS
Zigbee	Ant1	2440	6.57	≤30	PASS
Zigbee	Ant1	2480	8.17	≤30	PASS

Test Graphs Peak





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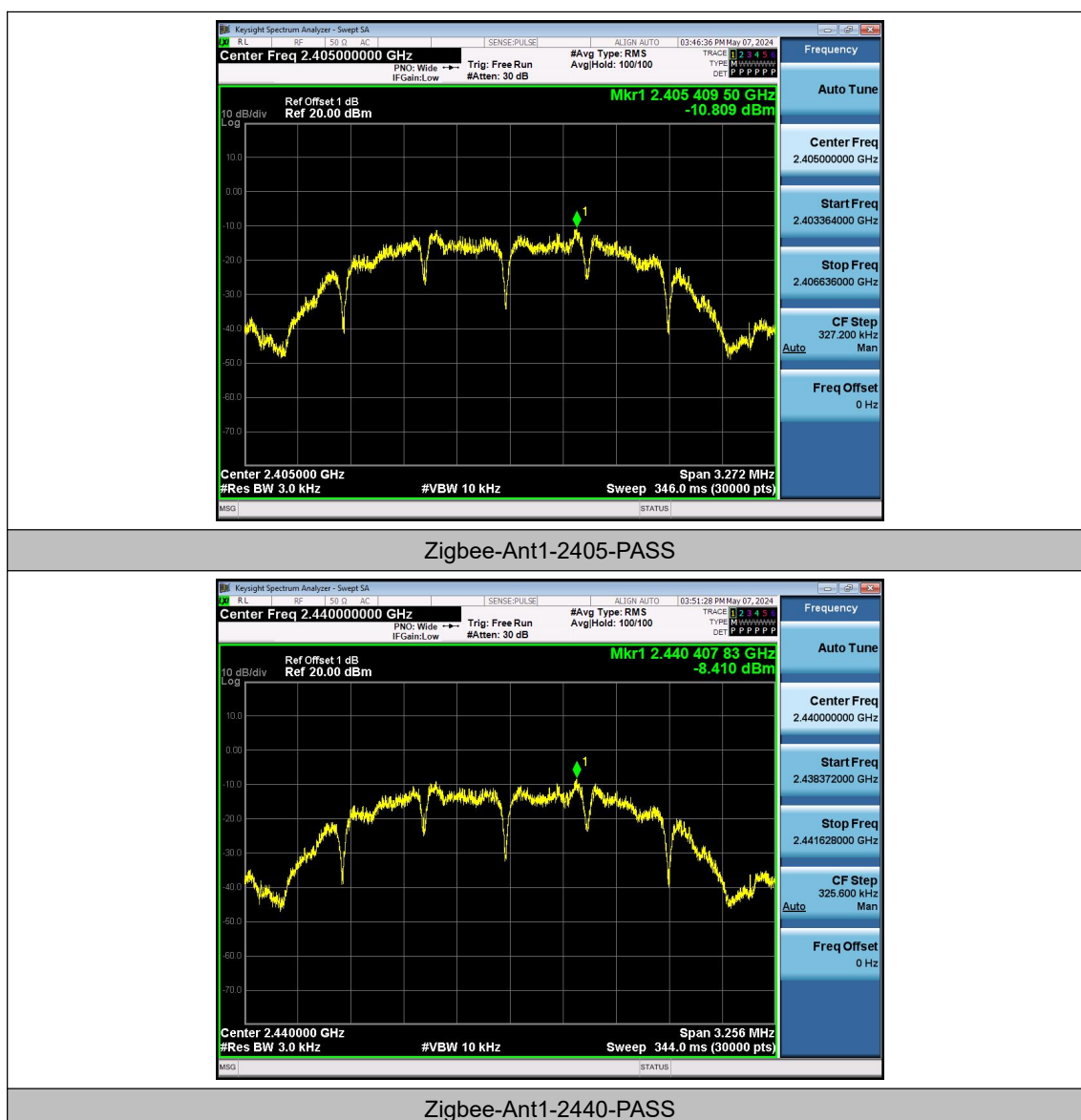
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	-10.81	≤8.00	PASS
Zigbee	Ant1	2440	-8.41	≤8.00	PASS
Zigbee	Ant1	2480	-6.70	≤8.00	PASS

Test Graphs





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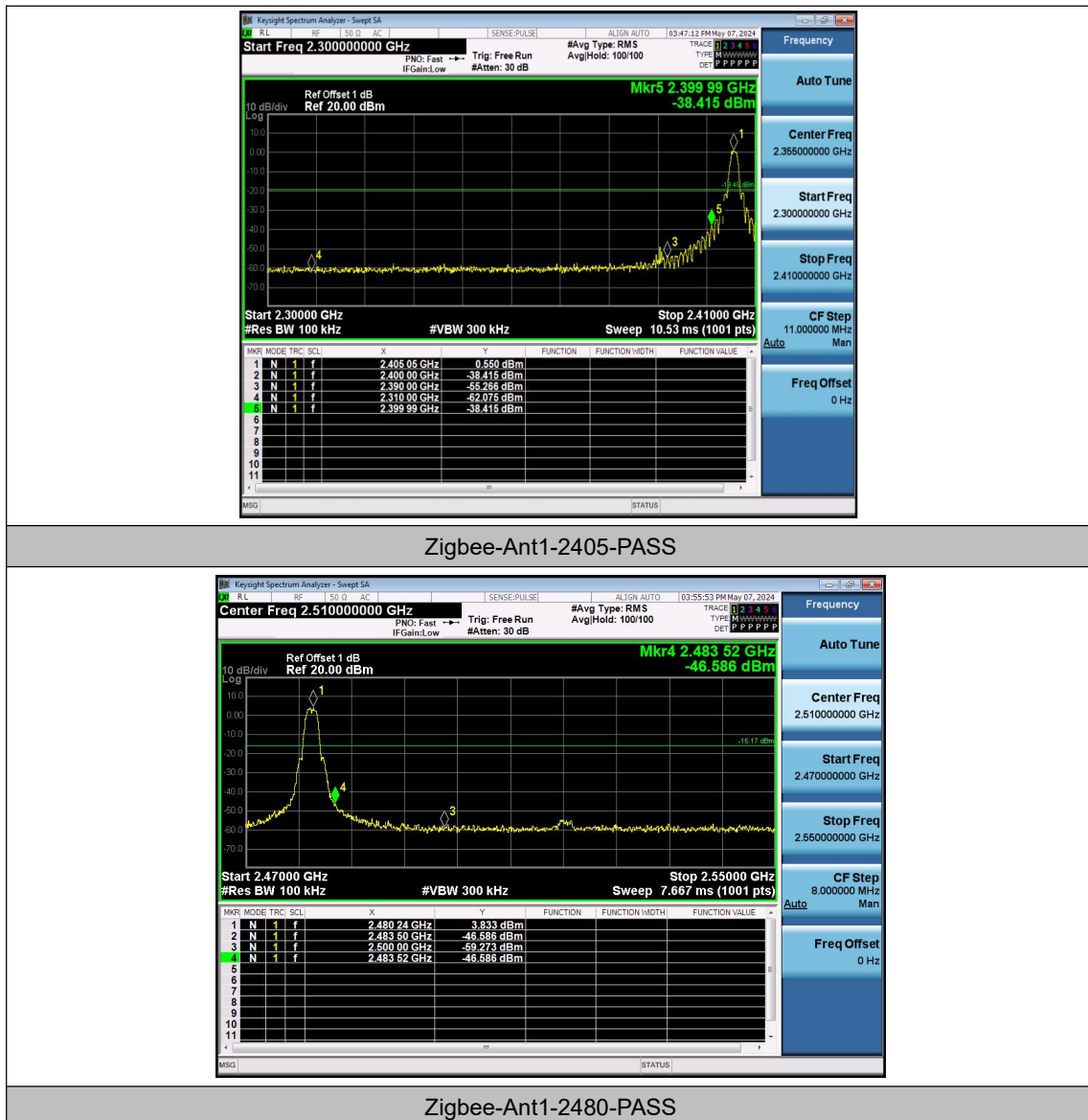
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	Low	2405	0.55	-38.42	≤-19.45	PASS
Zigbee	Ant1	High	2480	3.83	-46.59	≤-16.17	PASS

Test Graphs

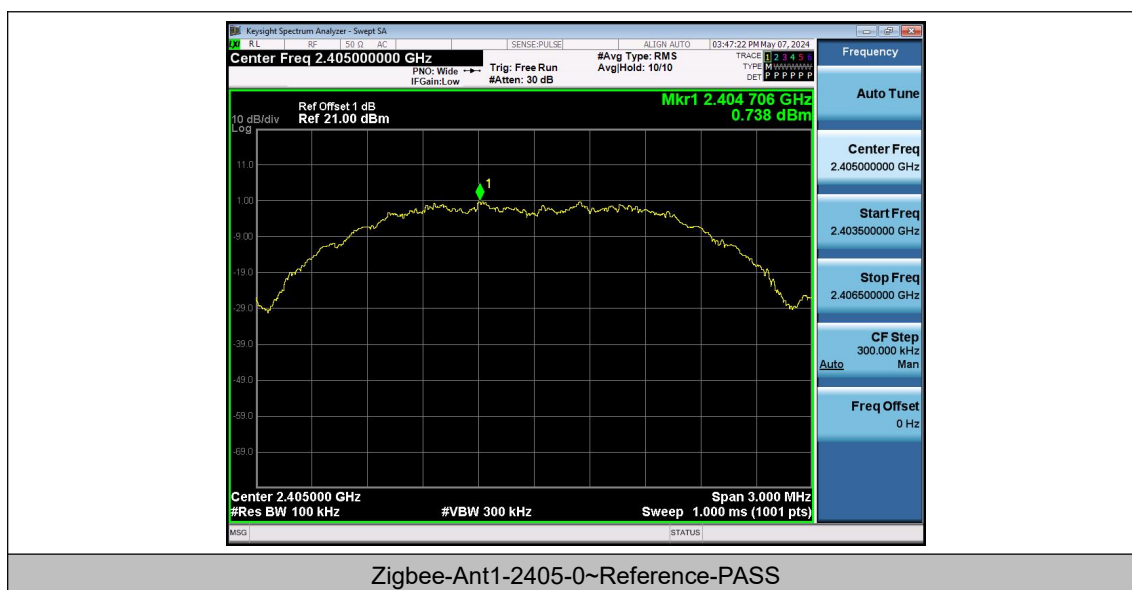


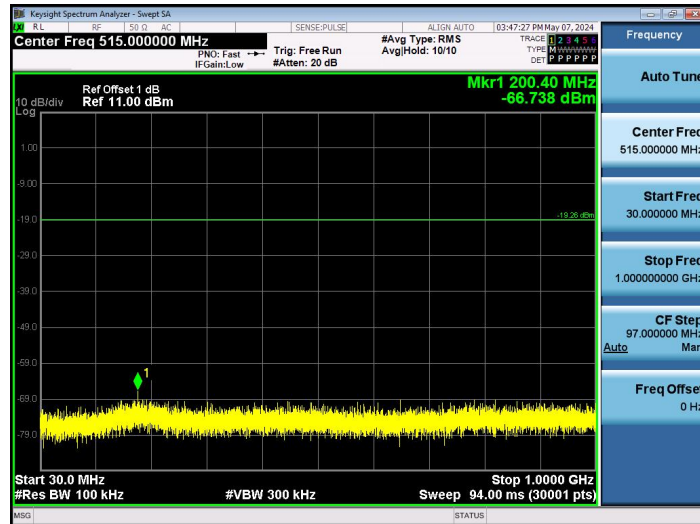
Appendix F: Conducted Spurious Emission

Test Result

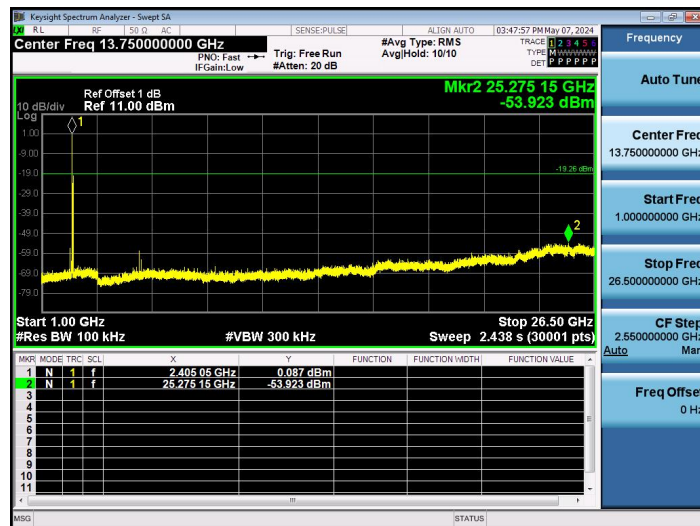
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	0~Reference	0.74	0.74	---	PASS
Zigbee	Ant1	2405	30~1000	0.74	-66.74	≤-19.26	PASS
Zigbee	Ant1	2405	1000~26500	0.74	-53.92	≤-19.26	PASS
Zigbee	Ant1	2440	0~Reference	2.86	2.86	---	PASS
Zigbee	Ant1	2440	30~1000	2.86	-68.66	≤-17.14	PASS
Zigbee	Ant1	2440	1000~26500	2.86	-54.02	≤-17.14	PASS
Zigbee	Ant1	2480	0~Reference	4.28	4.28	---	PASS
Zigbee	Ant1	2480	30~1000	4.28	-68.45	≤-15.72	PASS
Zigbee	Ant1	2480	1000~26500	4.28	-49.75	≤-15.72	PASS

Test Graphs





Zigbee-Ant1-2405-30~1000-PASS



Zigbee-Ant1-2405-1000~26500-PASS

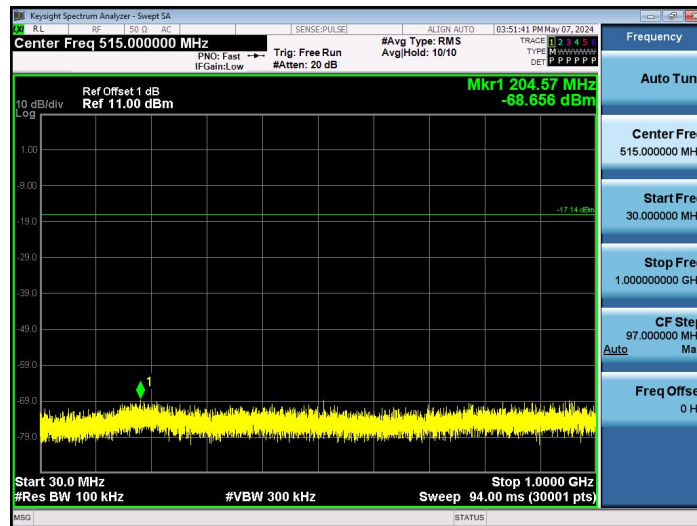


Zigbee-Ant1-2440-0~Reference-PASS

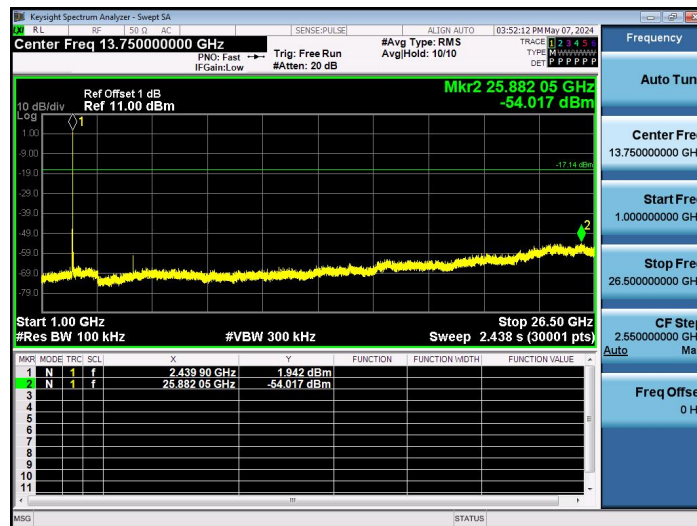
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Zigbee-Ant1-2440-30~1000-PASS



Zigbee-Ant1-2440-1000~26500-PASS

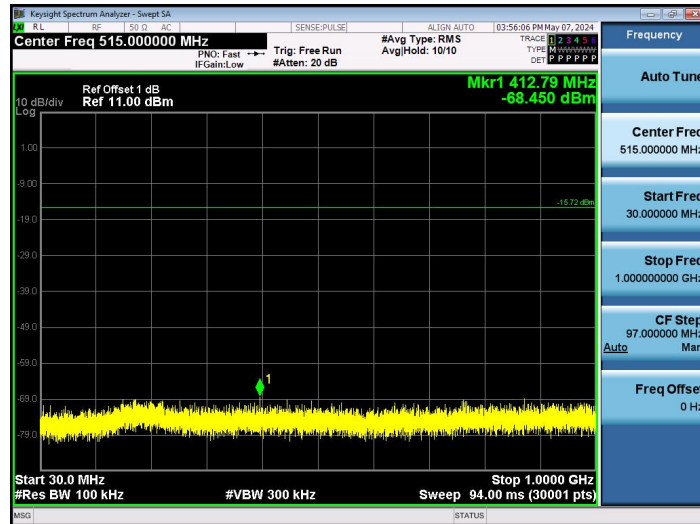


Zigbee-Ant1-2480-0~Reference-PASS

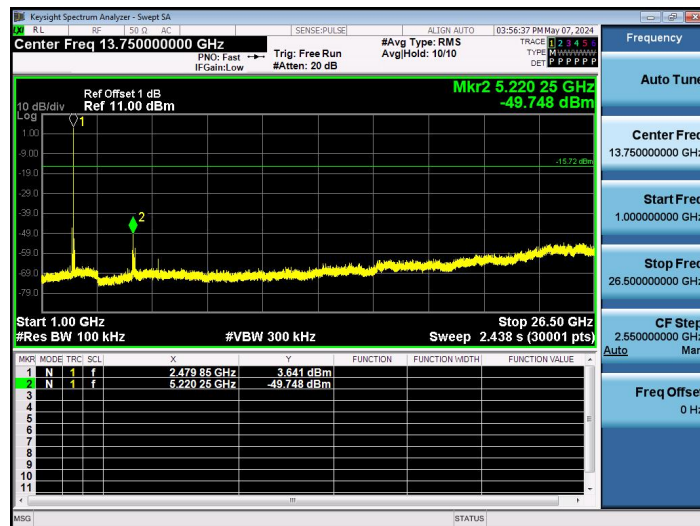
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Zigbee-Ant1-2480-30~1000-PASS



Zigbee-Ant1-2480-1000~26500-PASS

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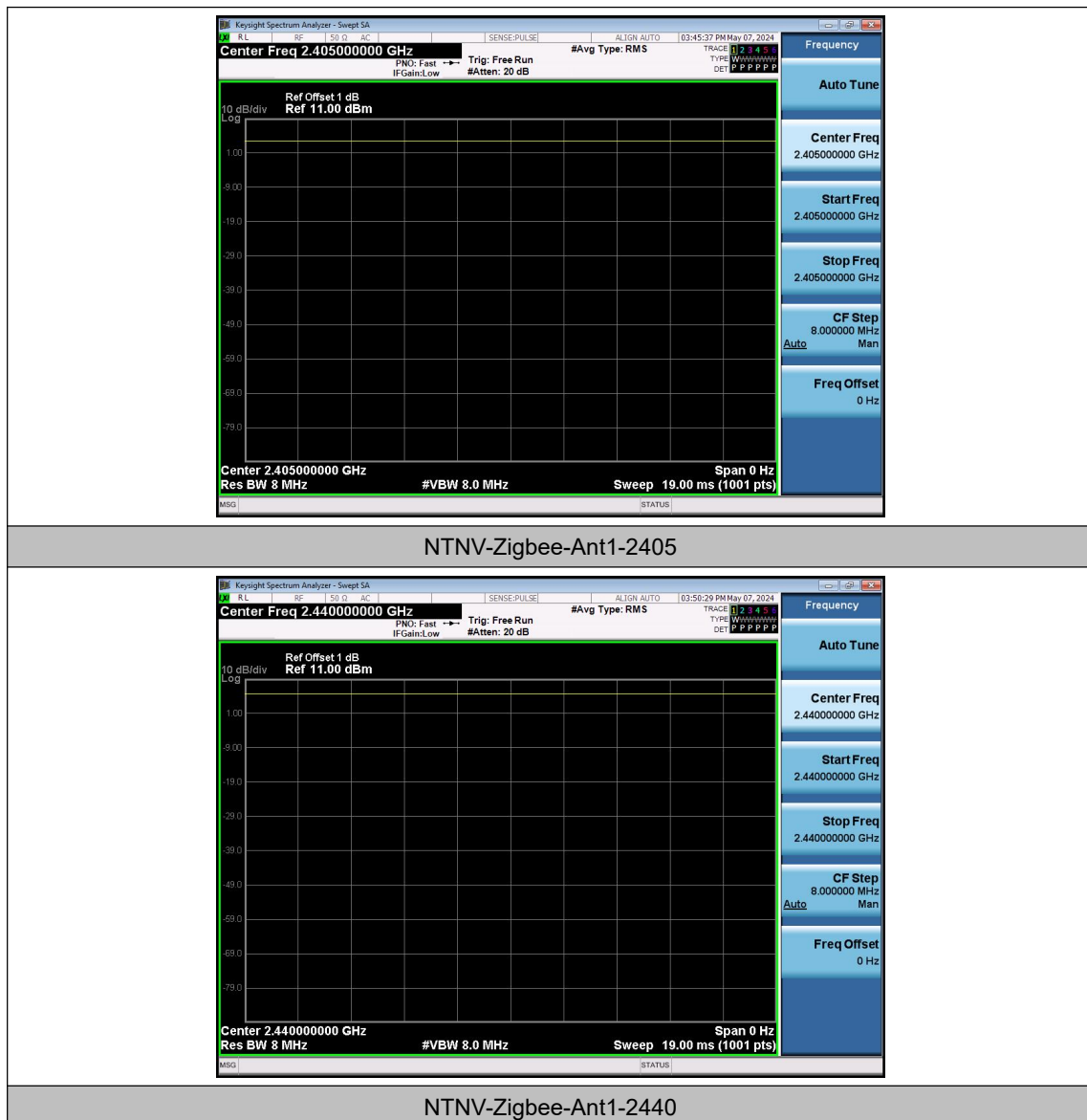
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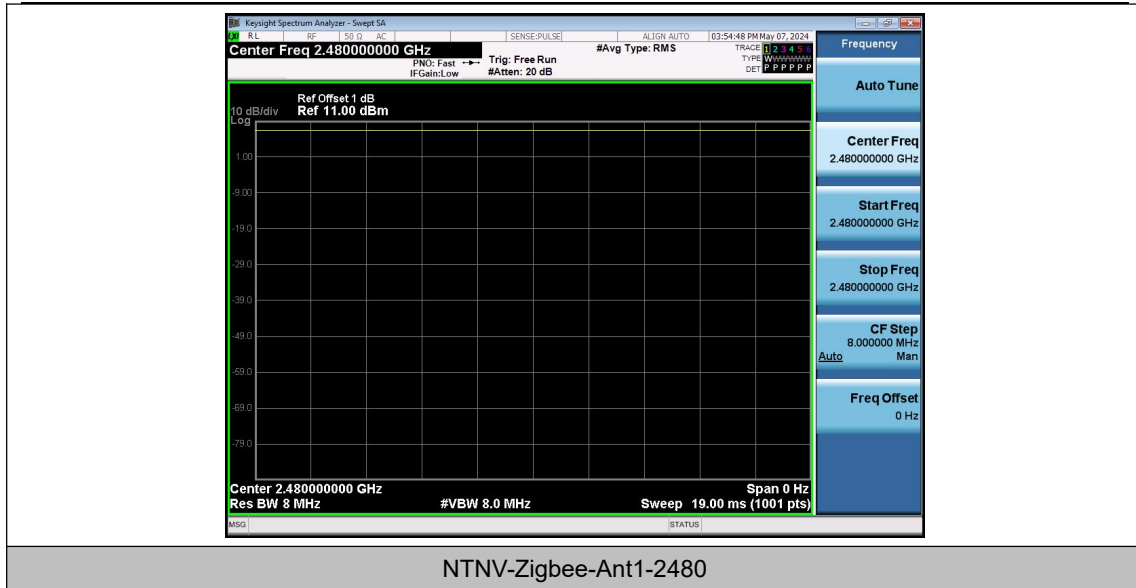
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	19.00	19.00	100	0.00
Zigbee	Ant1	2440	19.00	19.00	100	0.00
Zigbee	Ant1	2480	19.00	19.00	100	0.00

Test Graphs





---End---

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