

Appendix Test Data

Report No.:	18220WC30025501	Test Sample No.:	1-2-2
Start Test Date:	2023.02.20	Finish Test Date:	2023.03.06
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	24.6°C	Relative Humidity:	41%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.596	2404.328	2405.924	0.5	PASS
		2440	1.540	2439.360	2440.900	0.5	PASS
		2480	1.792	2479.224	2481.016	0.5	PASS



Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

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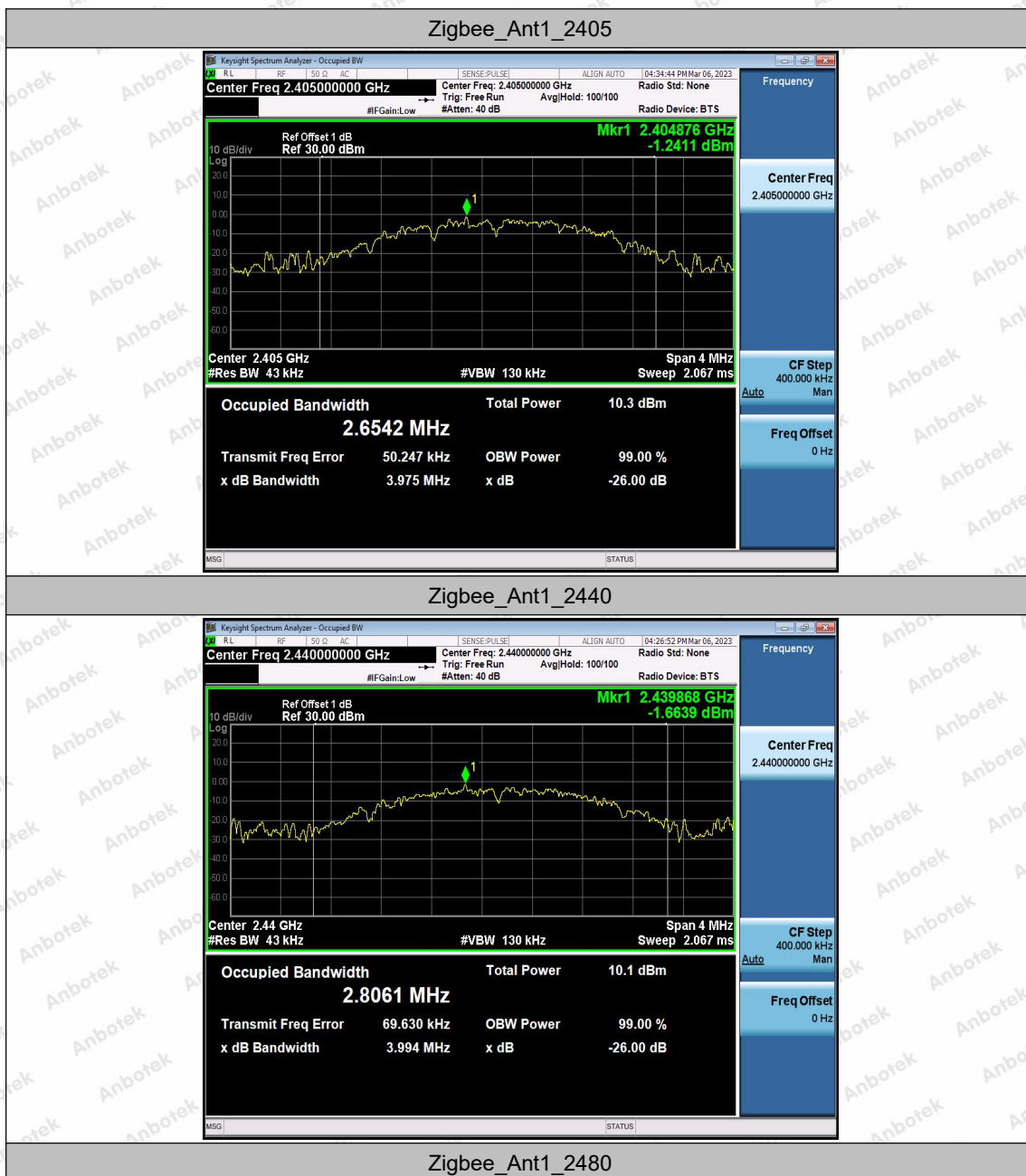
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
Zigbee	Ant1	2405	2.6542	2403.7232	2406.3774
		2440	2.8061	2438.6666	2441.4727
		2480	2.9429	2478.7215	2481.6644



Test Graphs



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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	4.69	≤30	PASS
		2440	4.56	≤30	PASS
		2480	4	≤30	PASS



Test Graphs Peak

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

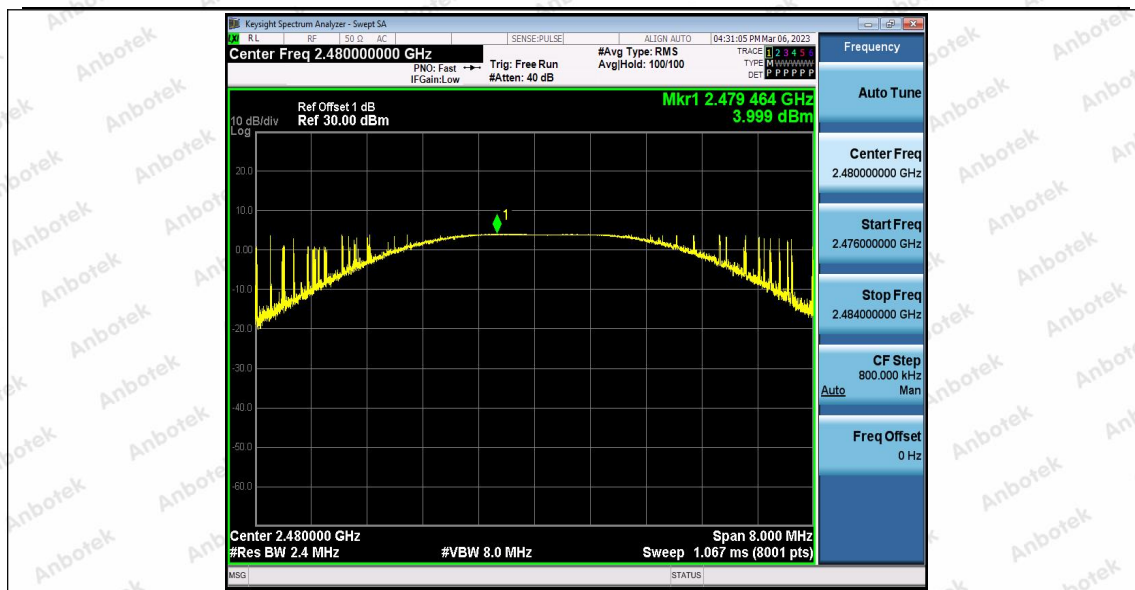
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Appendix D: Maximum power spectral density

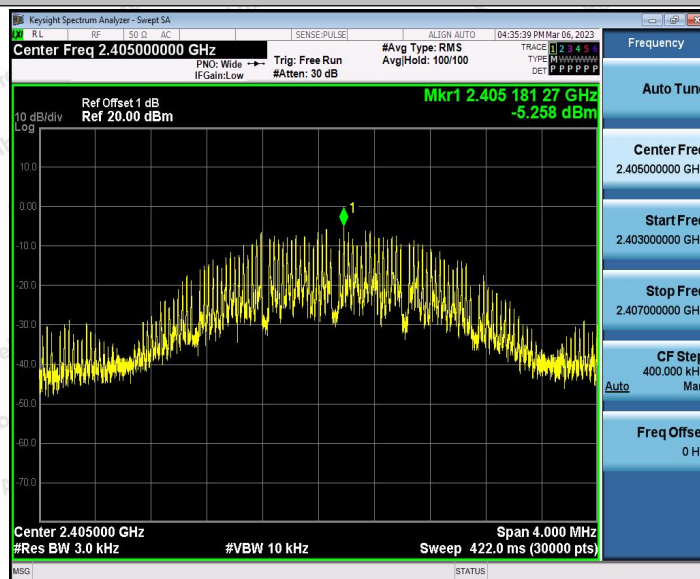
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	-5.26	≤8.00	PASS
		2440	-5.3	≤8.00	PASS
		2480	-6.96	≤8.00	PASS

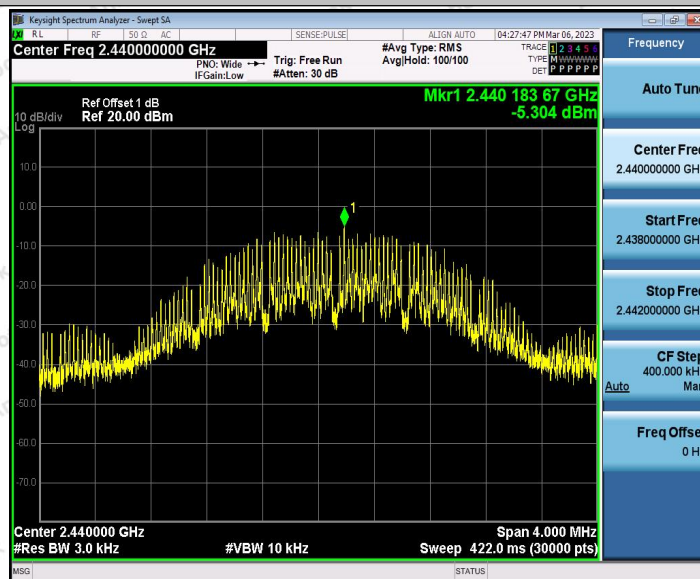


Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

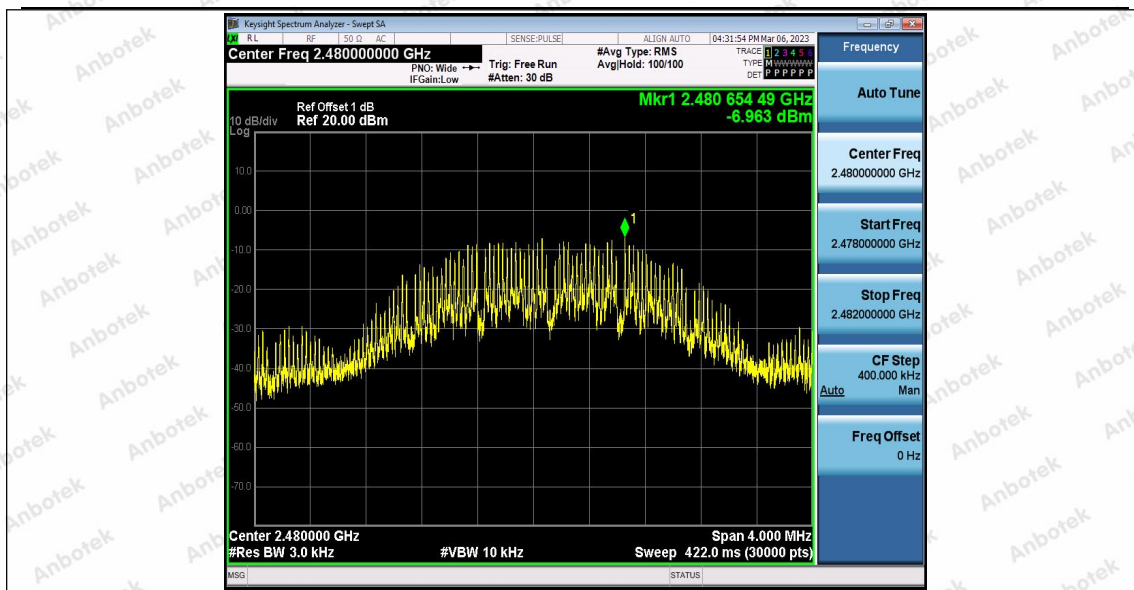
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Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
Zigbee	Ant1	Low	2405	2.42	-18.99	≤-17.59	PASS
		High	2480	-0.29	-21.4	≤-20.29	PASS



Test Graphs



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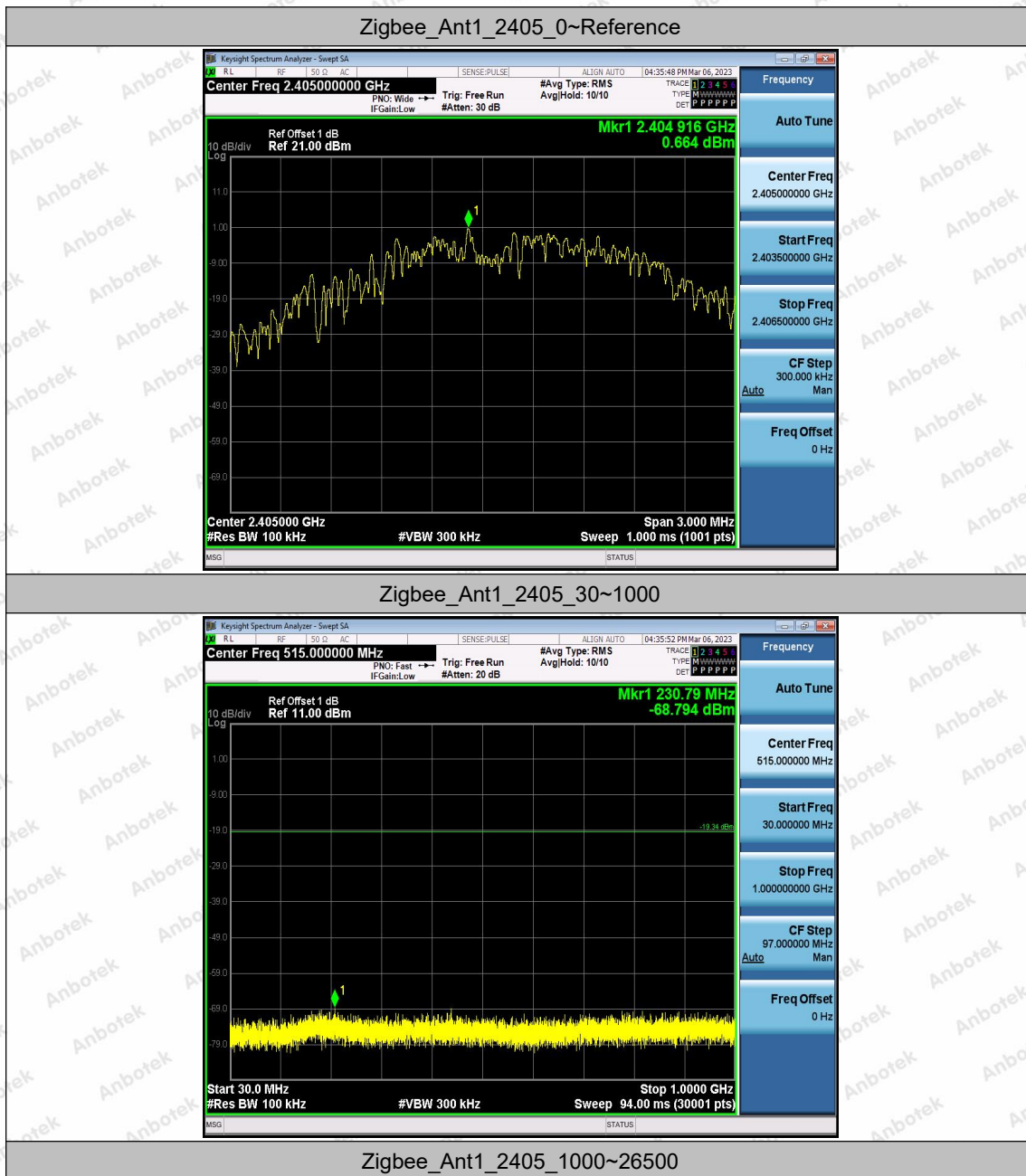
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-68.79	≤-19.34	PASS
			1000~26500	0.66	-43.51	≤-19.34	PASS
		2440	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-68.43	≤-19.08	PASS
			1000~26500	0.92	-53.47	≤-19.08	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-68.36	≤-21.65	PASS
			1000~26500	-1.65	-52.16	≤-21.65	PASS



Test Graphs



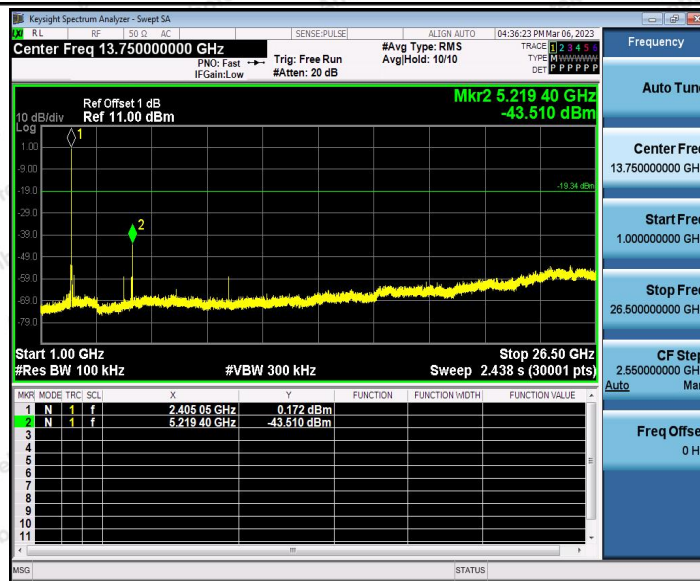
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Zigbee_Ant1_2440_0~Reference



Zigbee_Ant1_2440_30~1000

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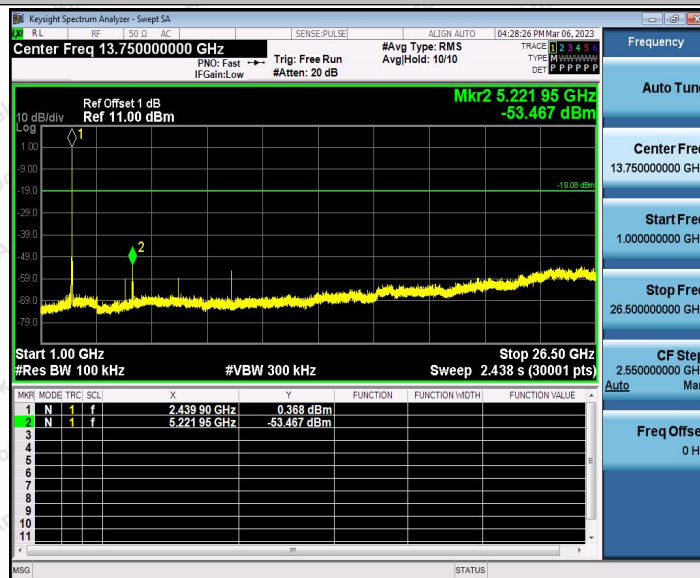


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Zigbee_Ant1_2440_1000~26500



Zigbee_Ant1_2480_0~Reference

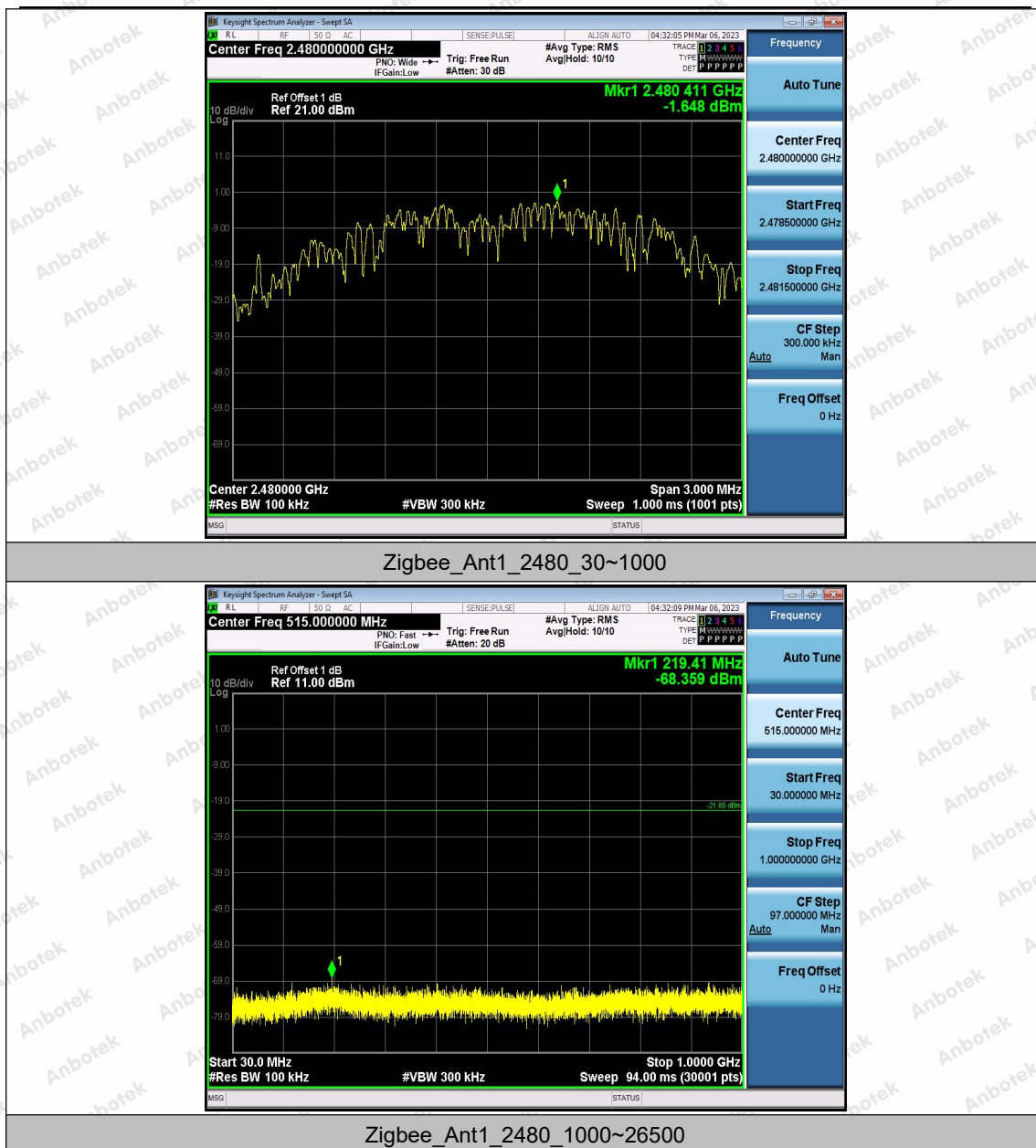
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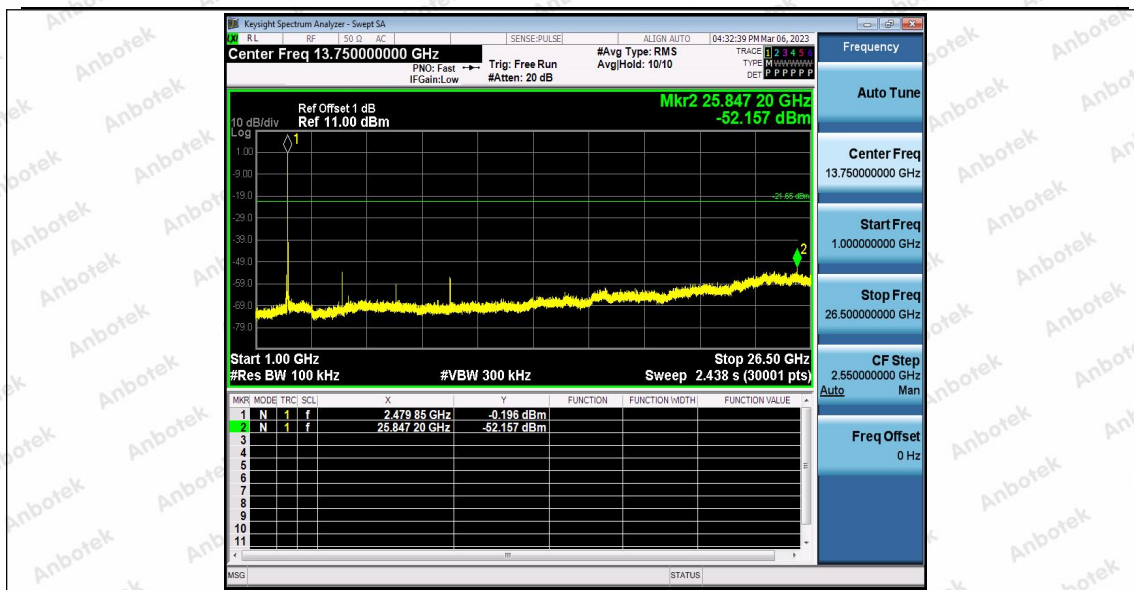
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Appendix G: Duty Cycle

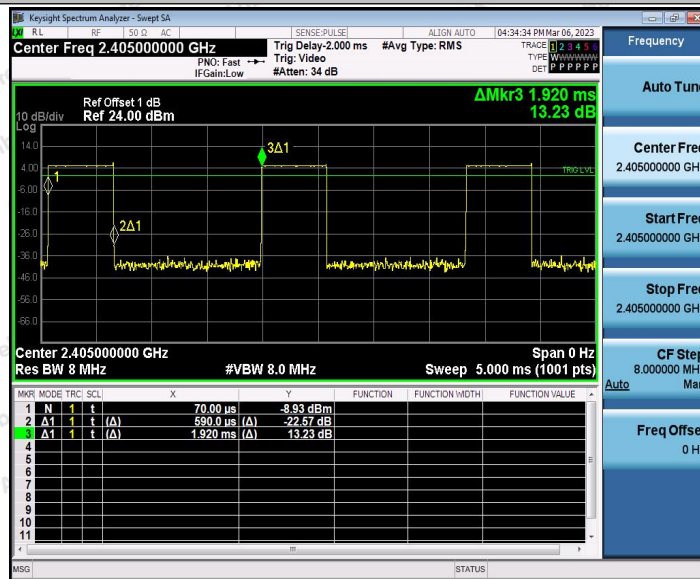
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	0.59	1.92	30.73	5.12
		2440	0.58	1.92	30.21	5.20
		2480	0.58	1.92	30.21	5.20

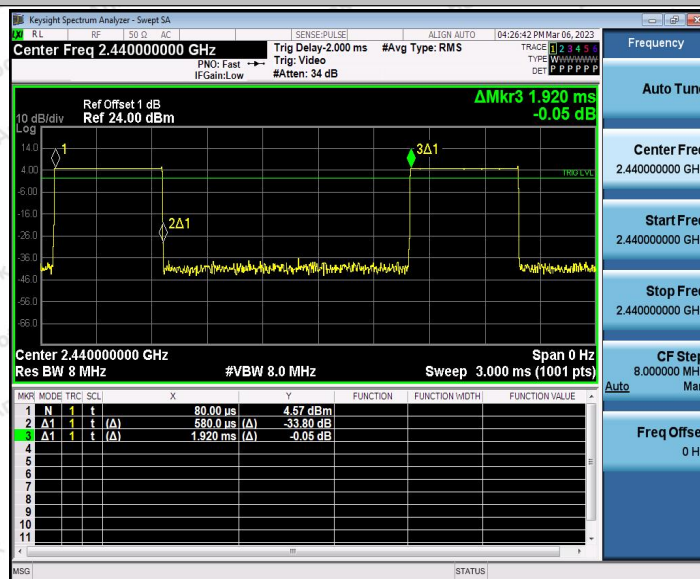


Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

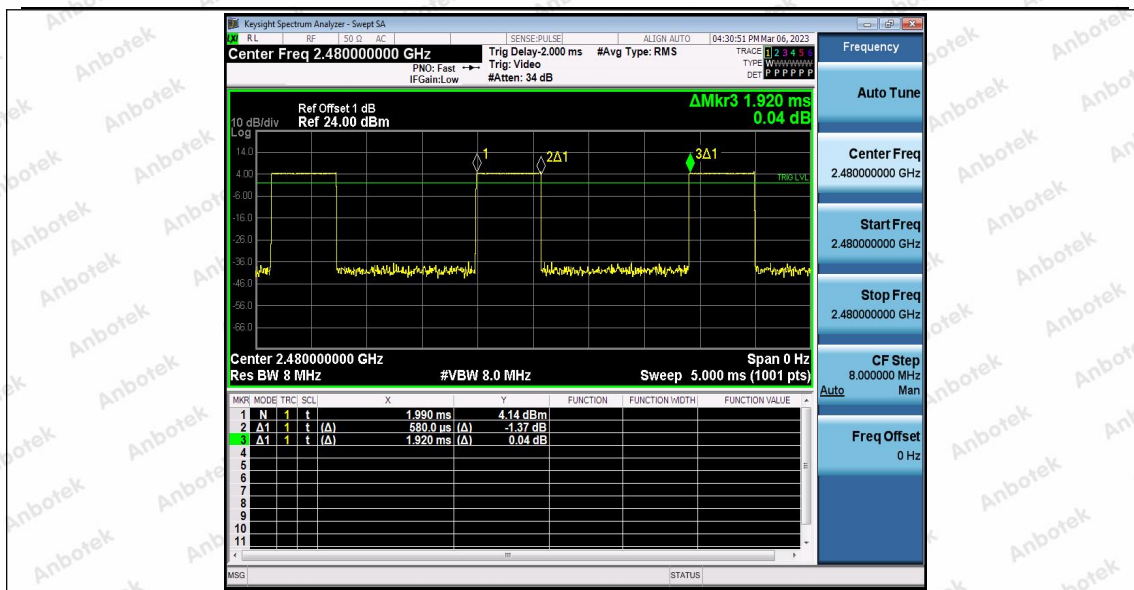
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