

Appendix Test Data

Report No.:	18220WC30022901	Test Sample No.:	1-2-2
Start Test Date:	2023.02.21	Finish Test Date:	2023.02.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
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	1.512	2404.344	2405.856	0.5	PASS
		2440	1.644	2439.312	2440.956	0.5	PASS
		2480	1.568	2479.324	2480.892	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	2.9062	2403.6967	2406.6029
		2440	2.8991	2438.6156	2441.5147
		2480	2.7032	2478.7238	2481.4270



Test Graphs



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Appendix C: Maximum conducted output power

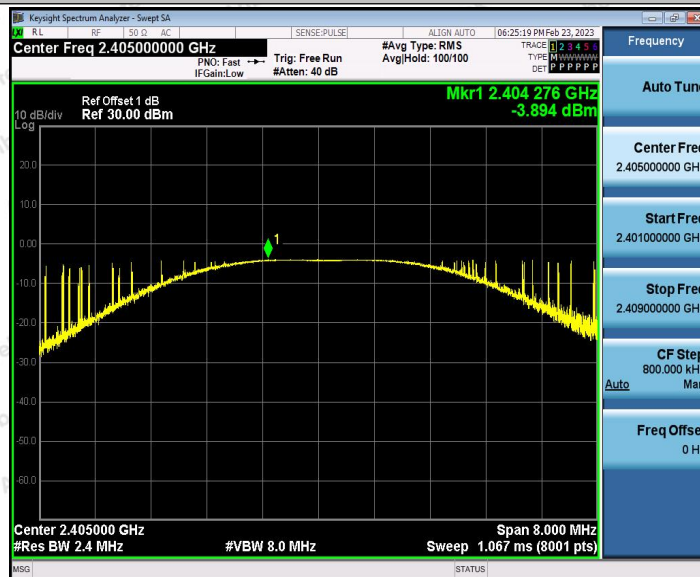
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
zigbee	Ant1	2405	-3.89	≤30	PASS
		2440	-2.41	≤30	PASS
		2480	-2.16	≤30	PASS

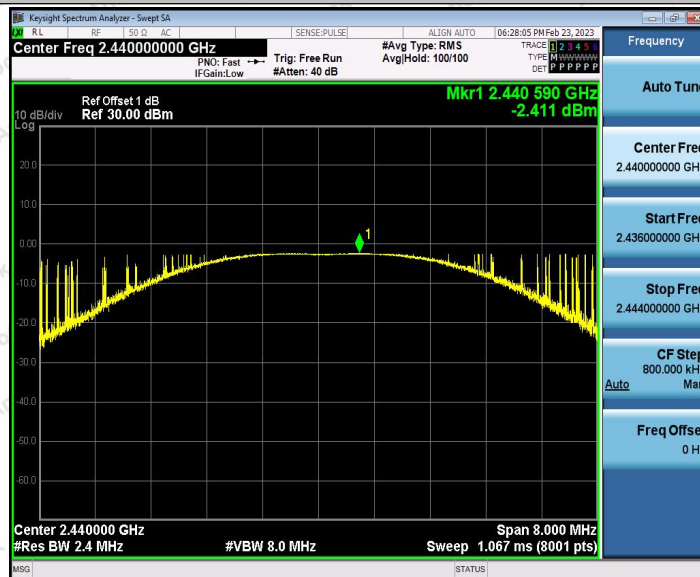


Test Graphs Peak

zigbee_Ant1_2405



zigbee_Ant1_2440



zigbee_Ant1_2480

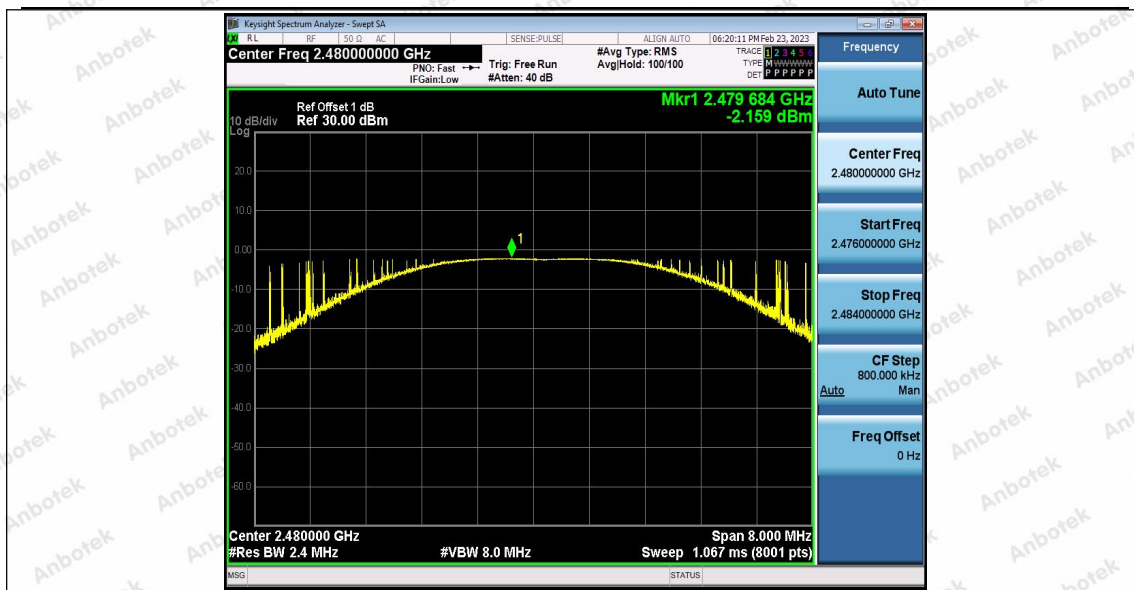
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Appendix D: Maximum power spectral density

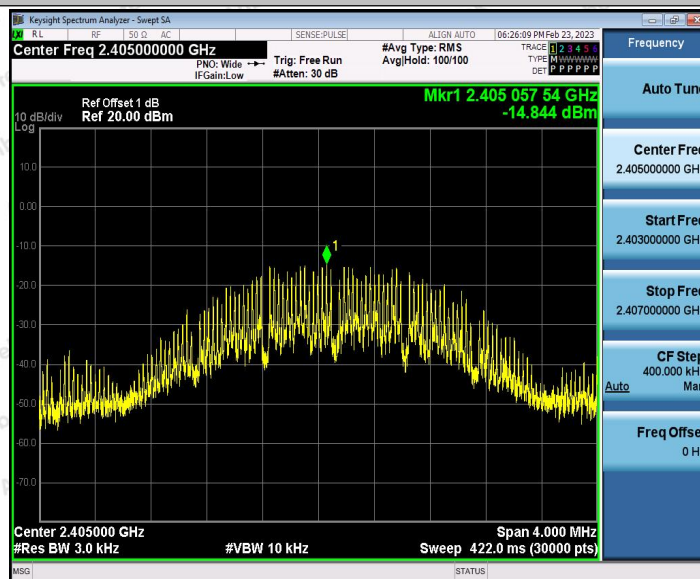
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
zigbee	Ant1	2405	-14.84	≤8.00	PASS
		2440	-11.11	≤8.00	PASS
		2480	-12.43	≤8.00	PASS

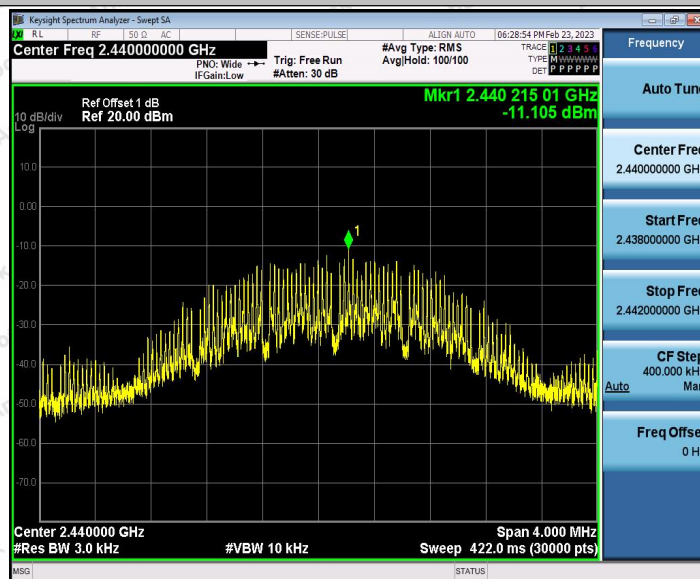


Test Graphs

zigbee_Ant1_2405



zigbee_Ant1_2440



zigbee_Ant1_2480

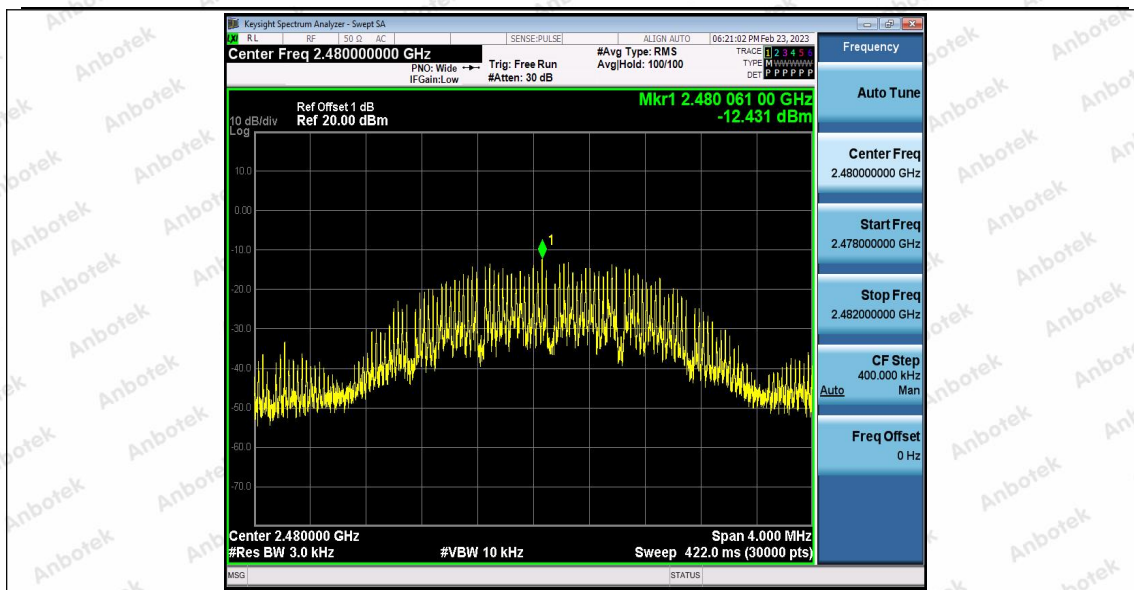
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Appendix E: Band edge measurements

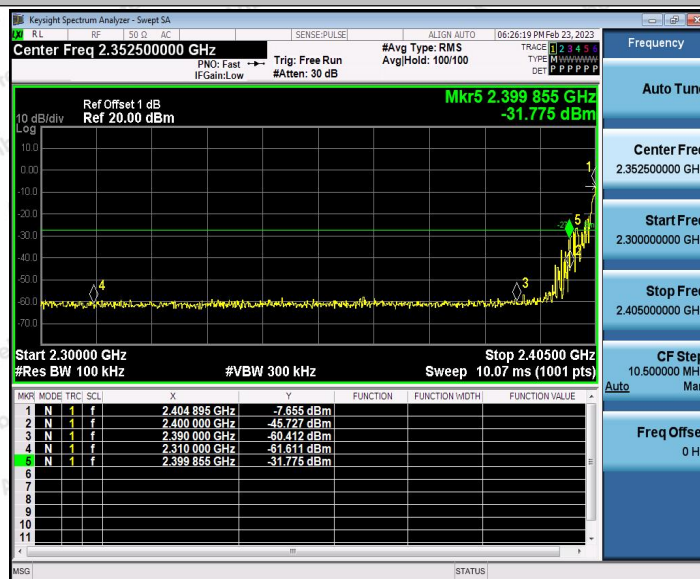
Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
zigbee	Ant1	Low	2402	-7.66	-31.78	≤-27.66	PASS
		High	2480	-5.99	-28.4	≤-25.99	PASS



Test Graphs

zigbee_Ant1_Low_2402



zigbee_Ant1_High_2480



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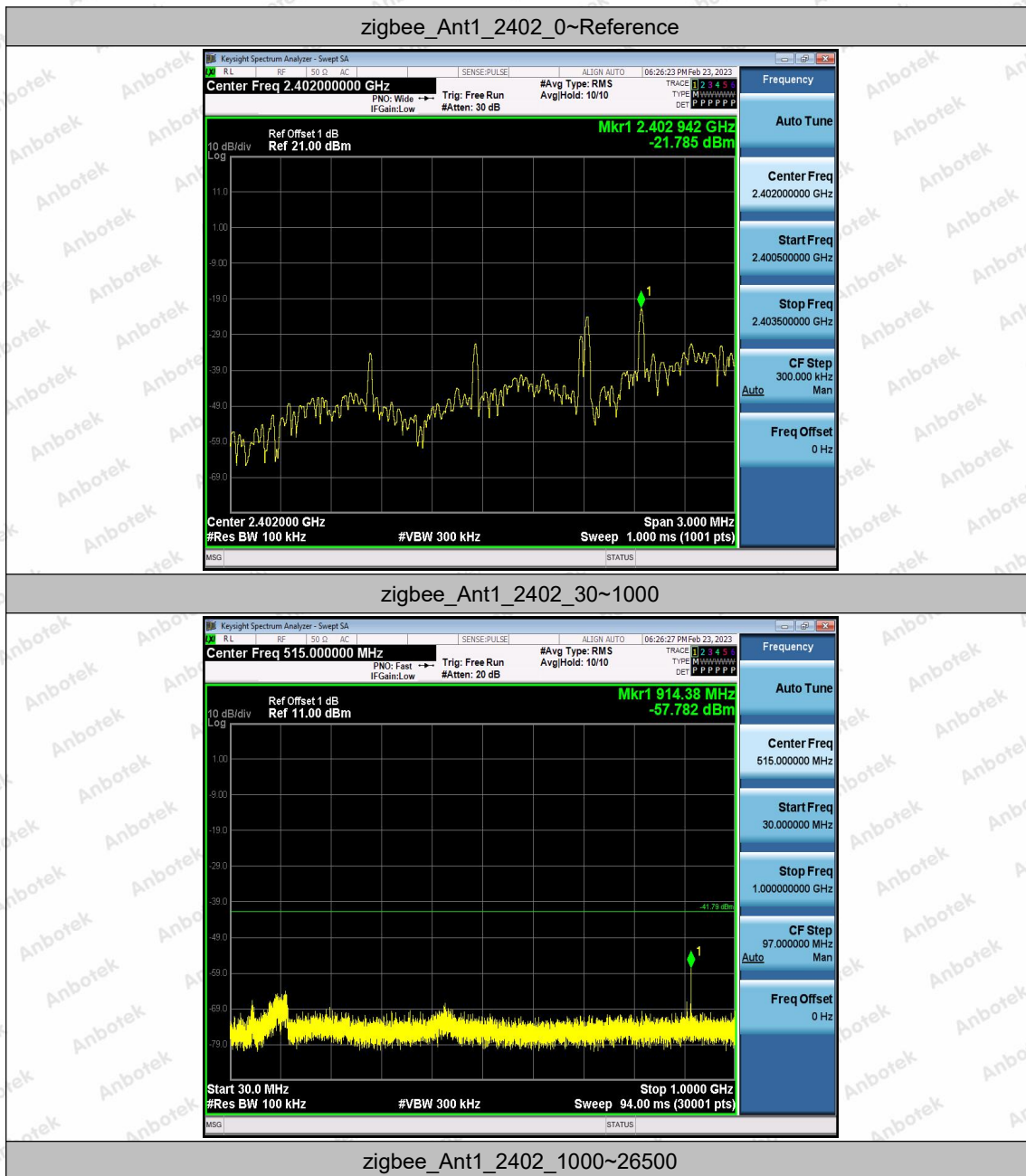
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
zigbee	Ant1	2402	Reference	-21.79	-21.79	---	PASS
			30~1000	-21.79	-57.78	≤-41.79	PASS
			1000~26500	-21.79	-53.19	≤-41.79	PASS
		2440	Reference	-6.98	-6.98	---	PASS
			30~1000	-6.98	-60.31	≤-26.98	PASS
			1000~26500	-6.98	-52.35	≤-26.98	PASS
		2480	Reference	-6.88	-6.88	---	PASS
			30~1000	-6.88	-51.25	≤-26.88	PASS
			1000~26500	-6.88	-52.58	≤-26.88	PASS



Test Graphs



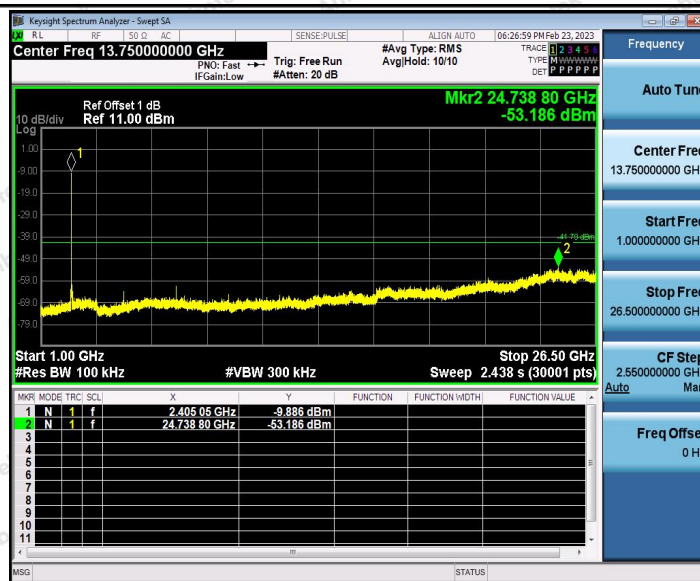
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zigbee_Ant1_2440_0~Reference



zigbee_Ant1_2440_30~1000

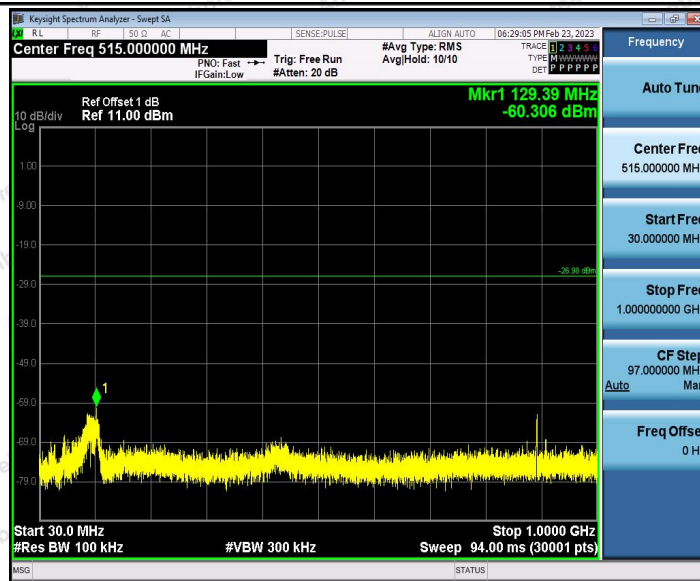
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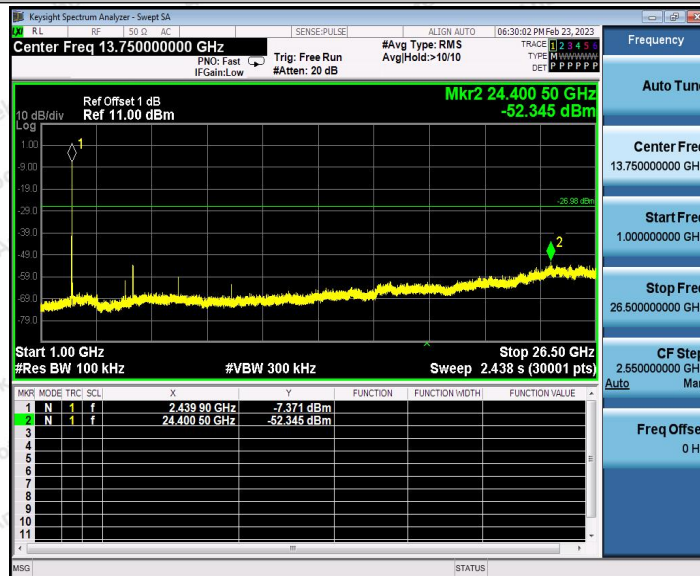


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zigbee_Ant1_2440_1000~26500



zigbee_Ant1_2480_0~Reference

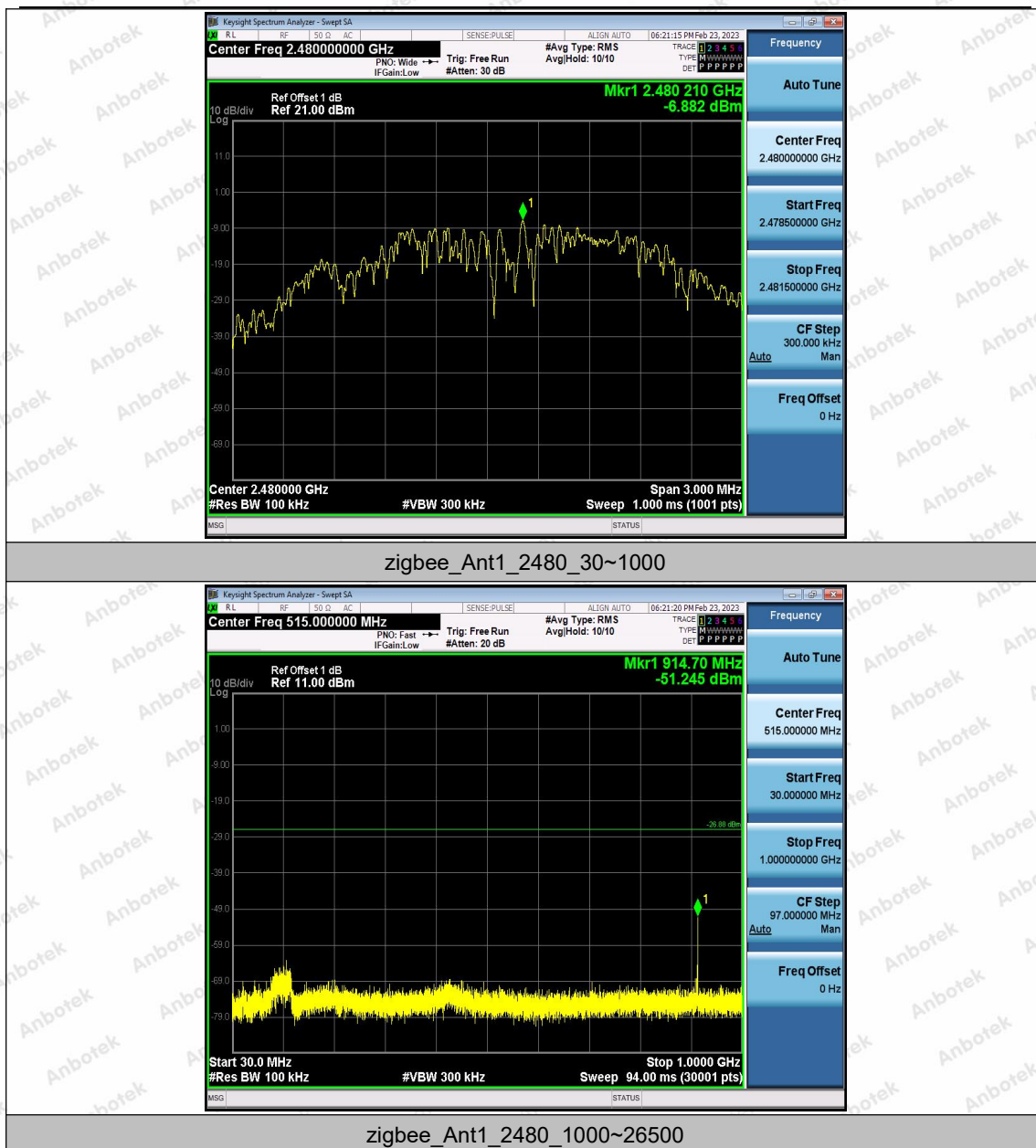
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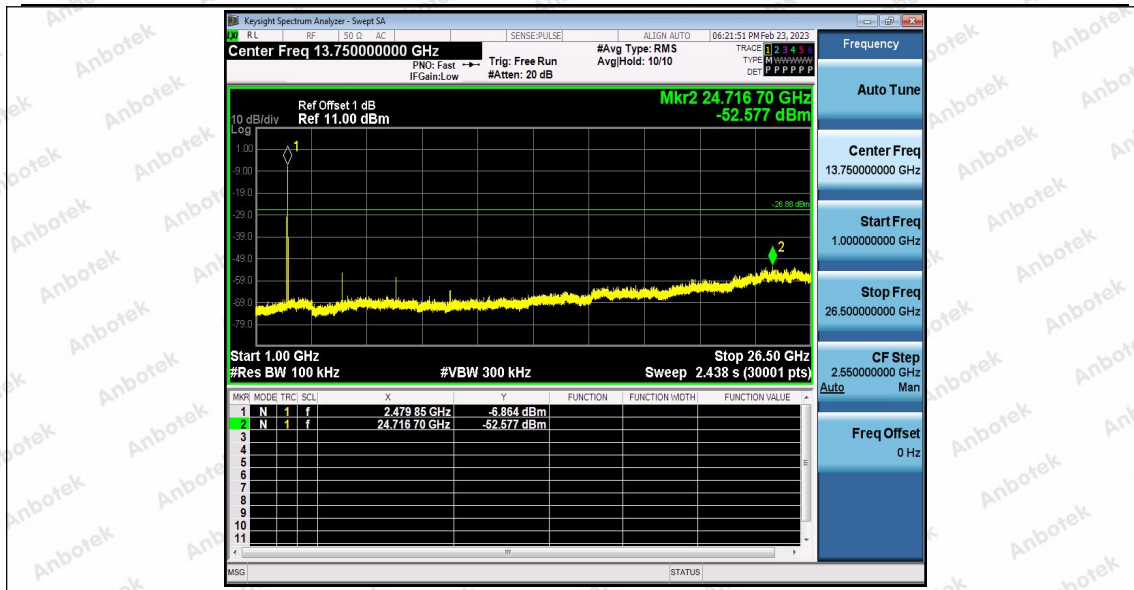
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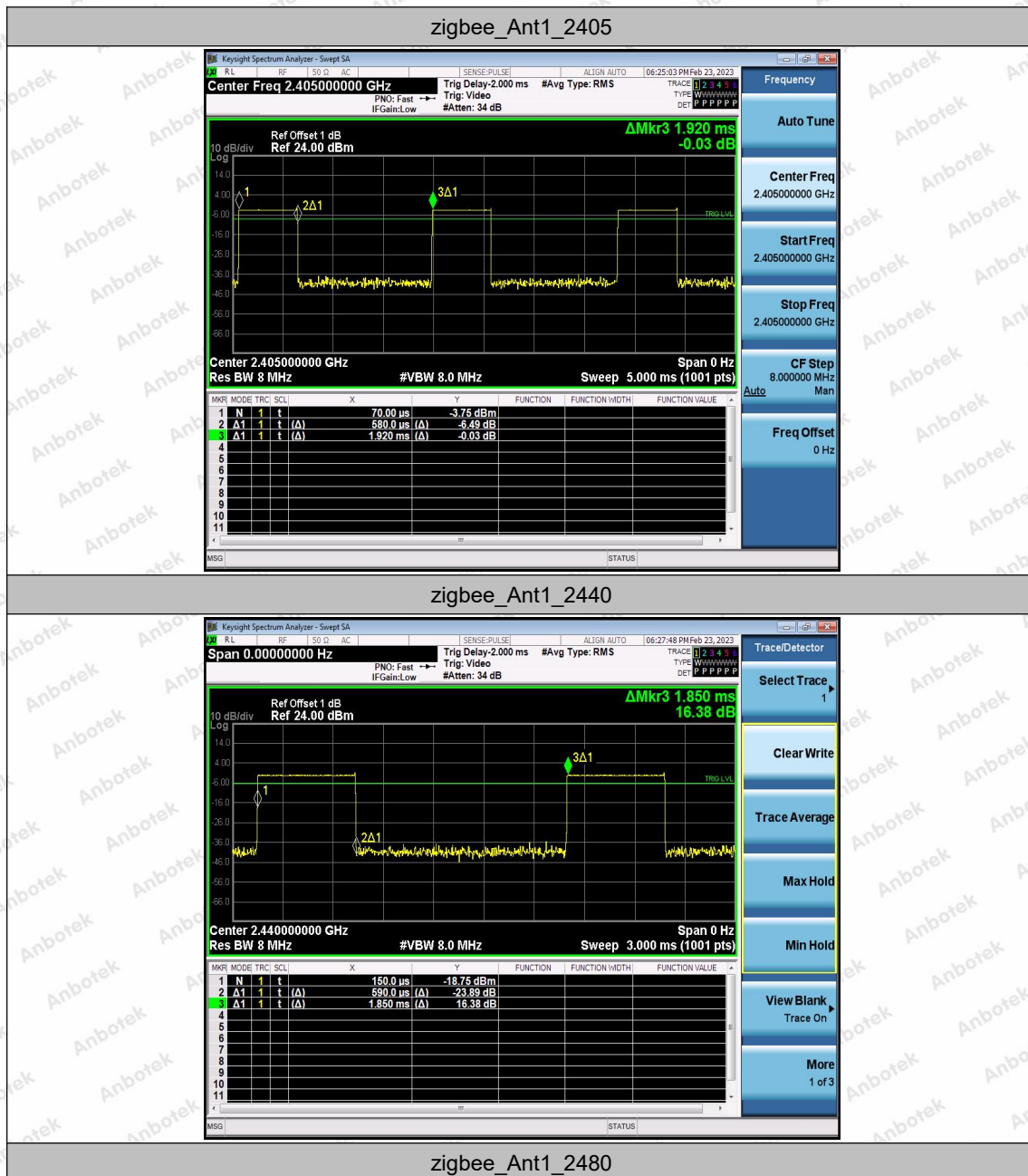
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
zigbee	Ant1	2405	0.58	1.92	30.21	5.20
		2440	0.59	1.85	31.89	4.96
		2480	0.58	1.84	31.52	5.01



Test Graphs



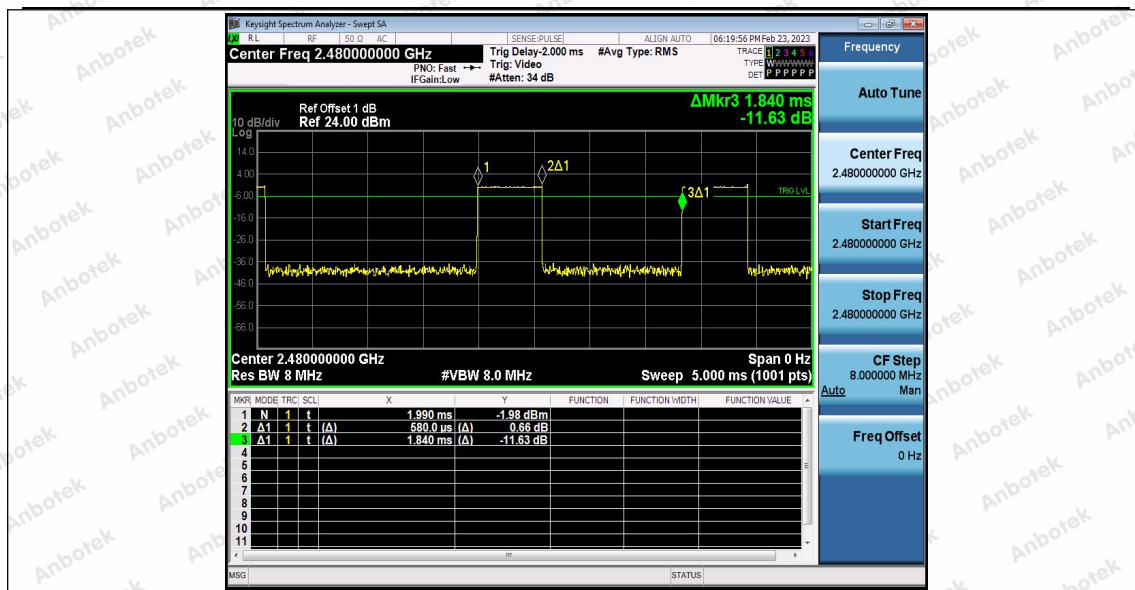
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