

## Appendix Test Data

Report No.:	18220WC30040203	Test Sample No.:	1-2-2
Start Test Date:	2023.03.14	Finish Test Date:	2023.03.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	25.9℃	Relative Humidity:	49%
Pressure:	1012 hPa		

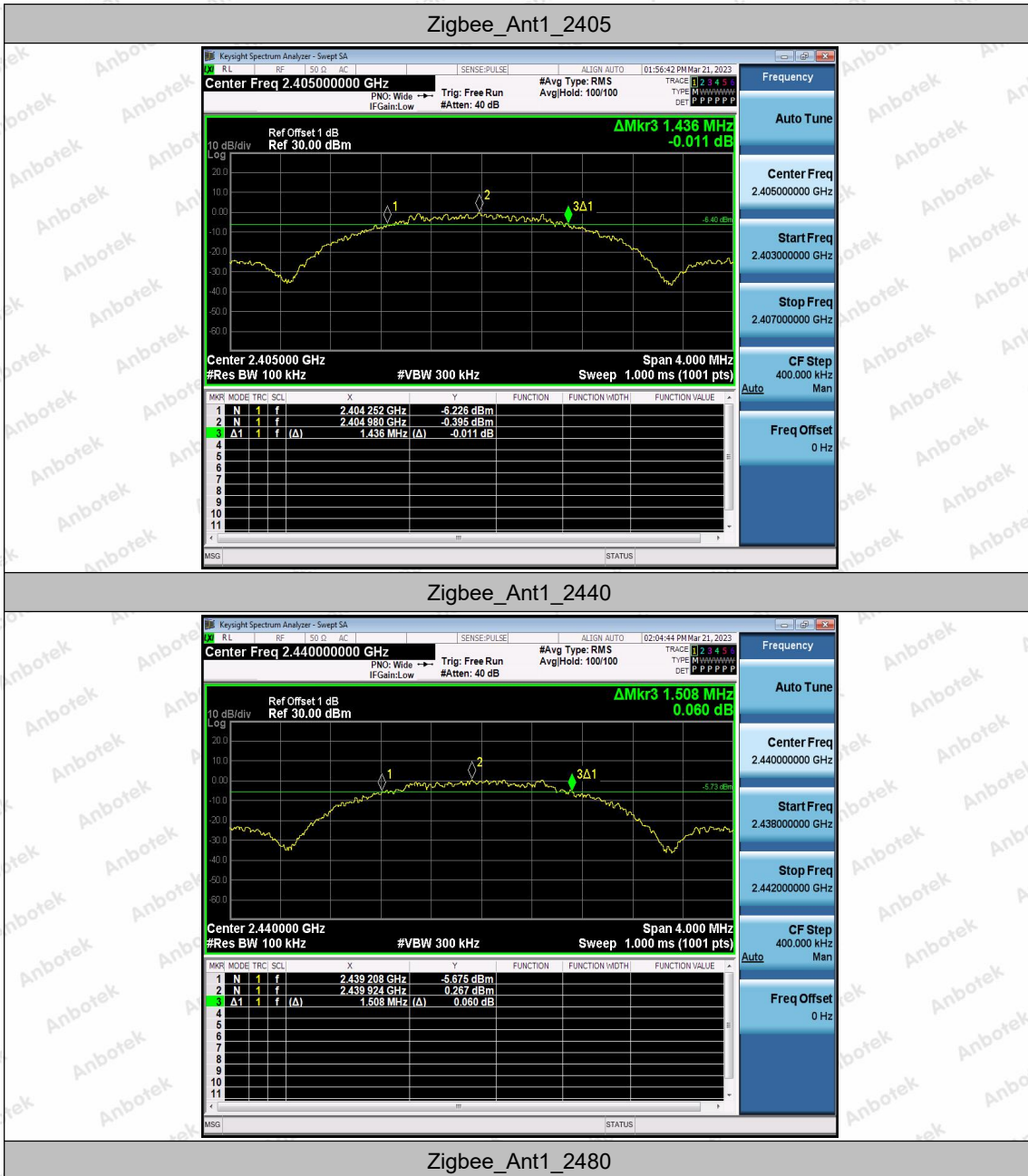
## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.436	2404.252	2405.688	0.5	PASS
		2440	1.508	2439.208	2440.716	0.5	PASS
		2480	1.332	2479.324	2480.656	0.5	PASS



## Test Graphs



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## Appendix B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
Zigbee	Ant1	2405	2.2714	2403.8413	2406.1127
		2440	2.2728	2438.8507	2441.1235
		2480	2.0553	2478.9545	2481.0098

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## Test Graphs



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## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Zigbee	Ant1	2405	4.10	≤30	PASS
		2440	3.07	≤30	PASS
		2480	2.52	≤30	PASS

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## Test Graphs Peak



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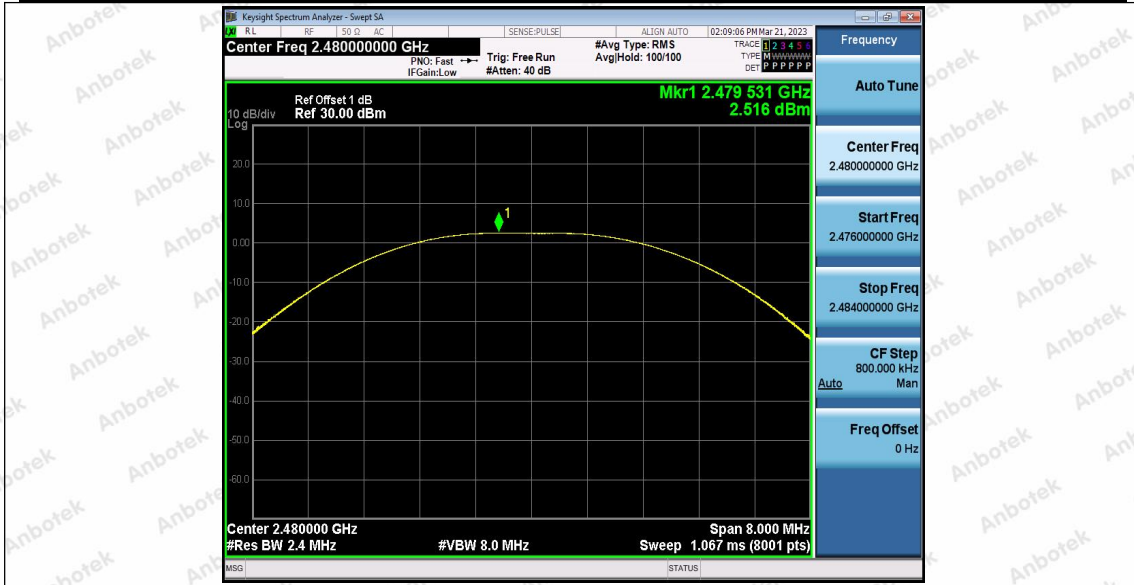
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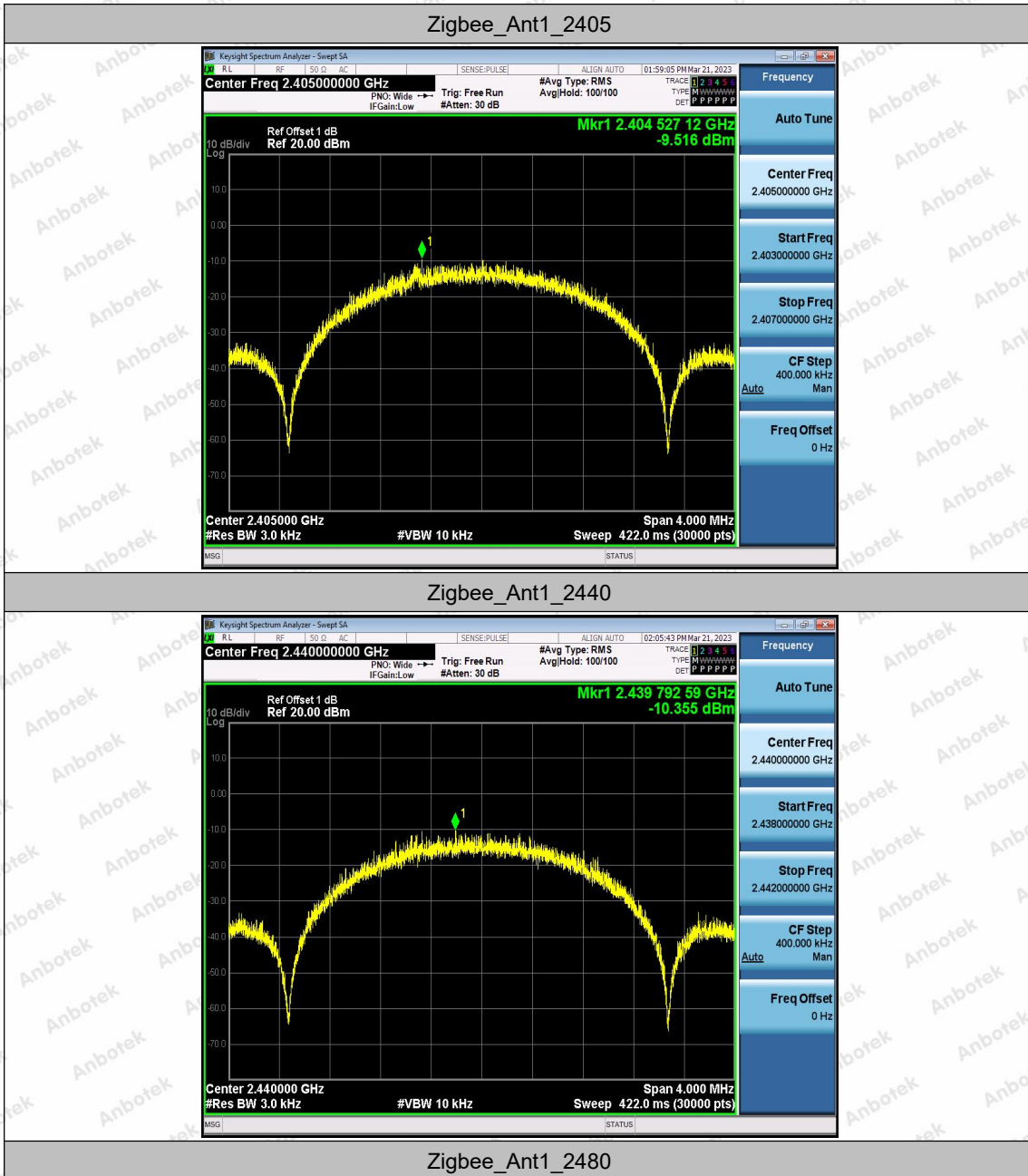
## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	-9.52	≤8.00	PASS
		2440	-10.36	≤8.00	PASS
		2480	-9.44	≤8.00	PASS



## Test Graphs

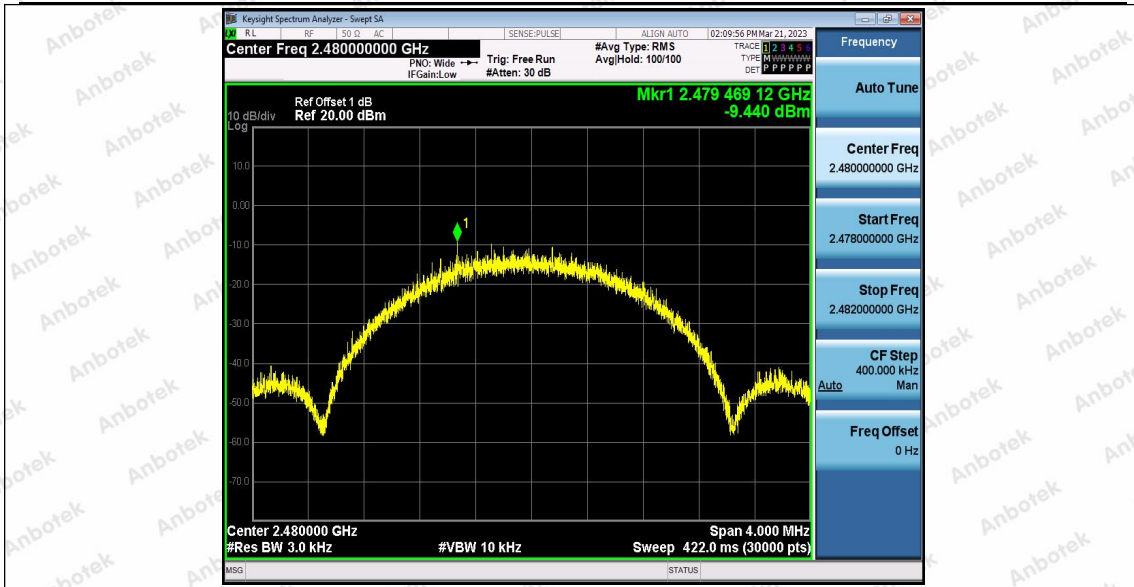


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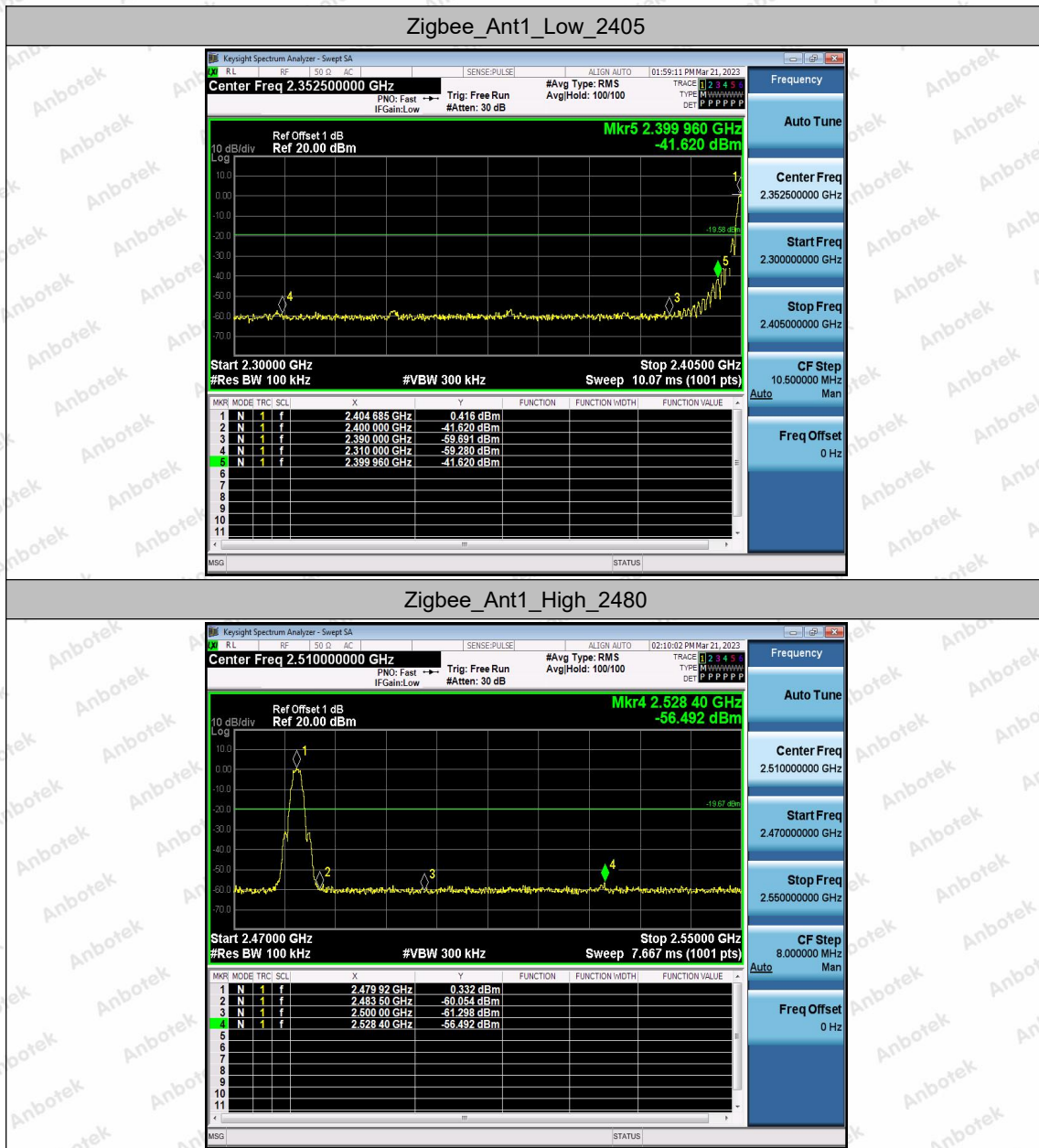


## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	Low	2405	0.42	-41.62	≤-19.58	PASS
		High	2480	0.33	-56.49	≤-19.67	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	Reference	0.83	0.83	---	PASS
			30~1000	0.83	-56.27	≤-19.17	PASS
			1000~26500	0.83	-24.7	≤-19.17	PASS
		2440	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-57.05	≤-19.64	PASS
			1000~26500	0.36	-22.91	≤-19.64	PASS
		2480	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-56.79	≤-19.42	PASS
			1000~26500	0.58	-22.62	≤-19.42	PASS

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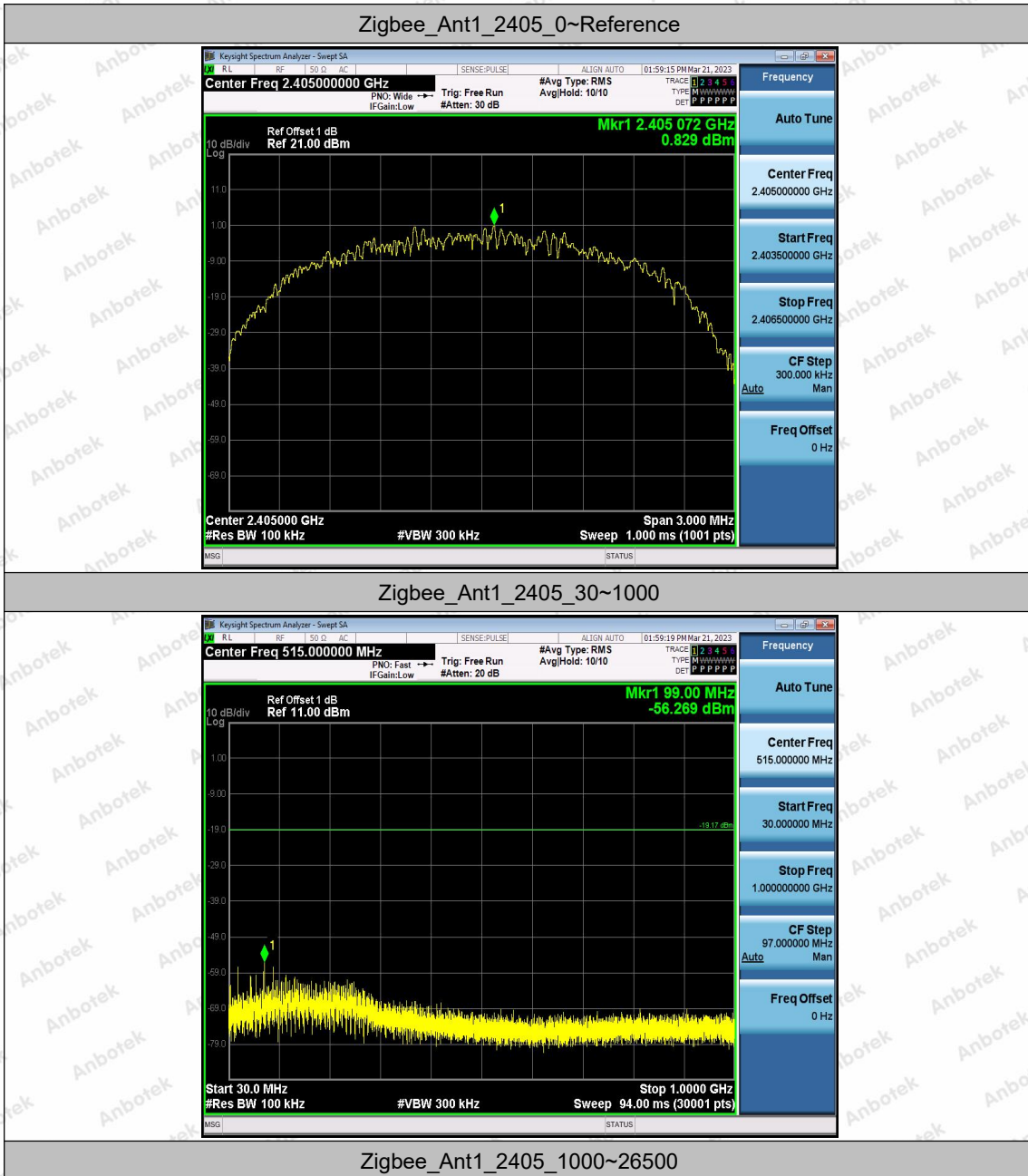
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## Test Graphs

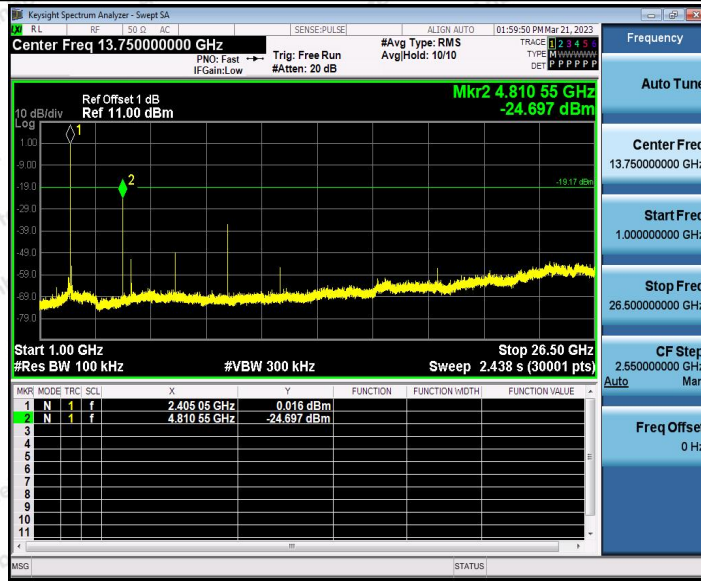


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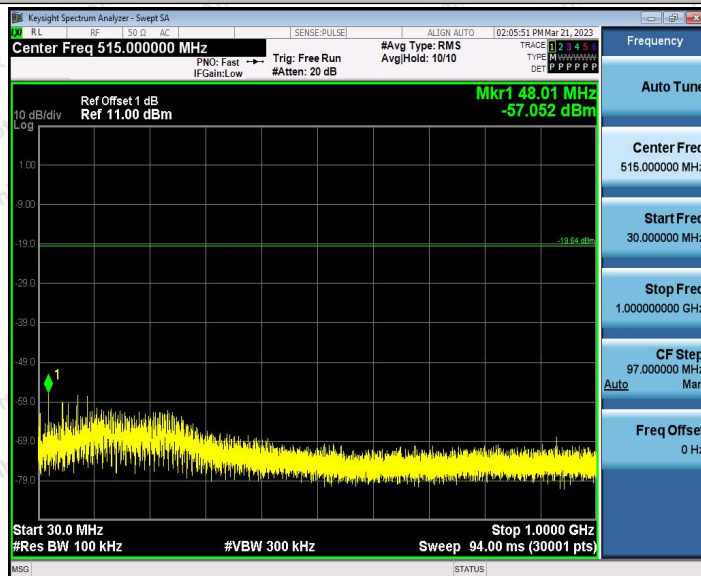




Zigbee\_Ant1\_2440\_0~Reference



Zigbee\_Ant1\_2440\_30~1000



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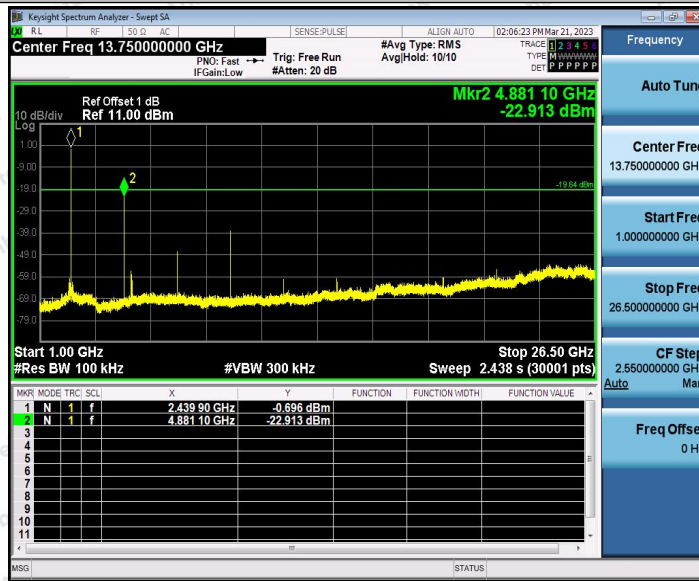
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Zigbee\_Ant1\_2440\_1000~26500



Zigbee\_Ant1\_2480\_0~Reference



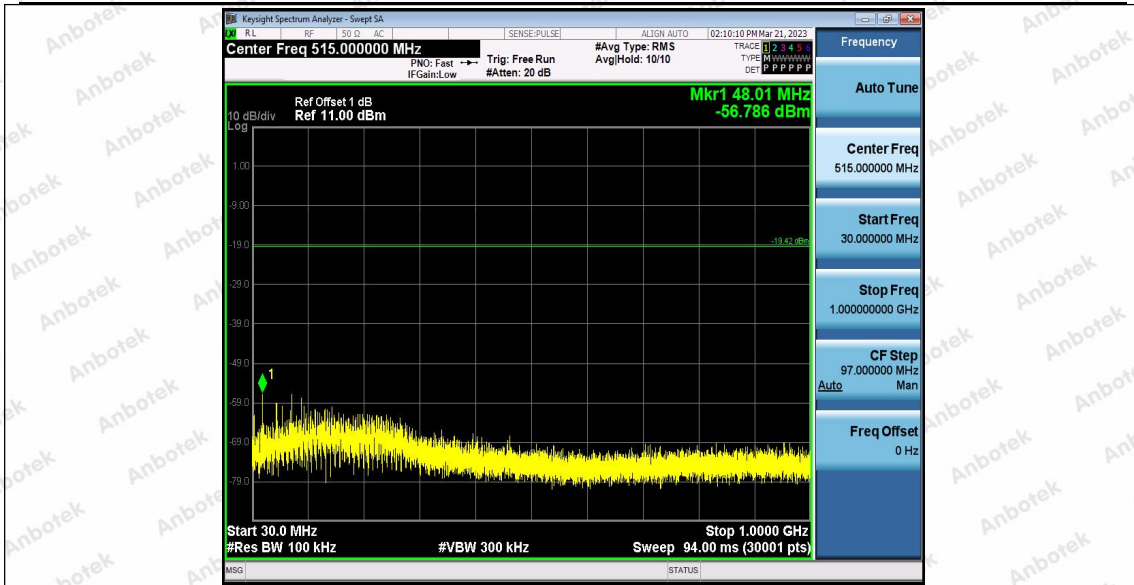
Zigbee\_Ant1\_2480\_30~1000

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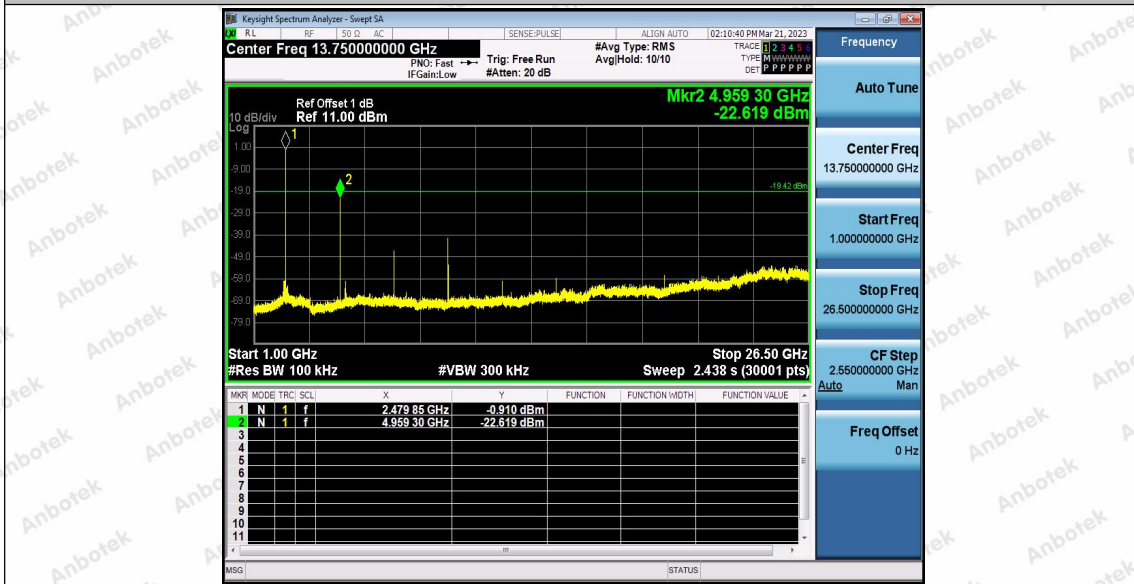
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Zigbee\_Ant1\_2480\_1000~26500



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## Appendix G: Duty Cycle

### Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	1.00	0.00	100	1.00
		2440	1.00	0.00	100	1.00
		2480	1.00	0.00	100	1.00

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## Test Graphs

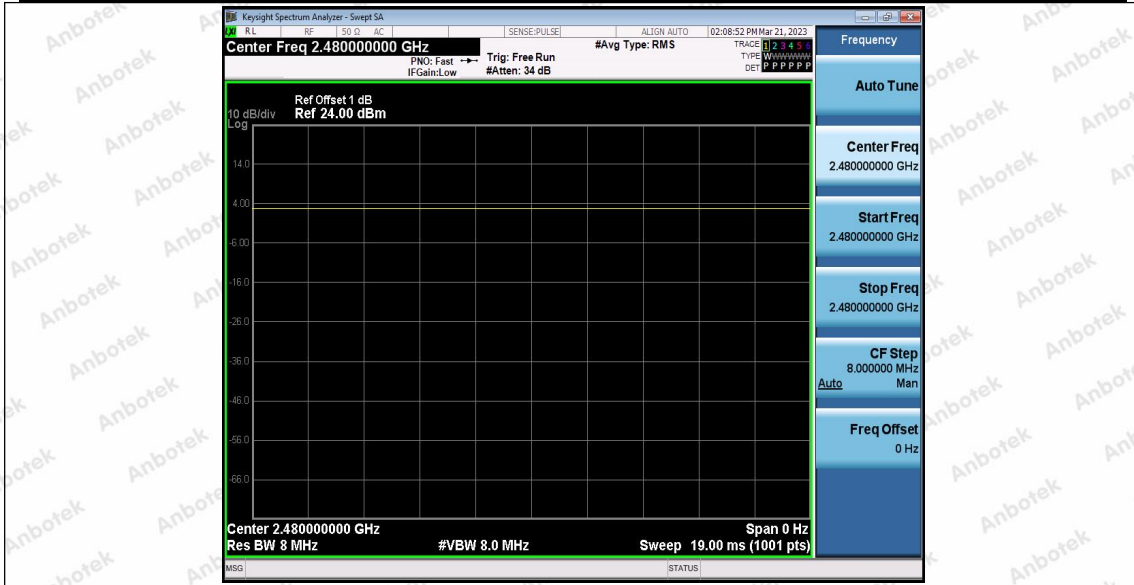


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