

## Appendix Test Data

Report No.:	18220WC30073701	Test Sample No.:	1-2-2
Start Test Date:	2023.05.10	Finish Test Date:	2023.05.10
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.6°C	Relative Humidity:	39%
Pressure:	1012 hPa		

## Appendix A: 20dB Emission Bandwidth

## Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	1.038	2401.457	2402.495
		2441	0.972	2440.532	2441.504
		2480	1.026	2479.463	2480.489
2DH5	Ant1	2402	1.326	2401.337	2402.663
		2441	1.320	2440.340	2441.660
		2480	1.326	2479.337	2480.663

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## Test Graphs



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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

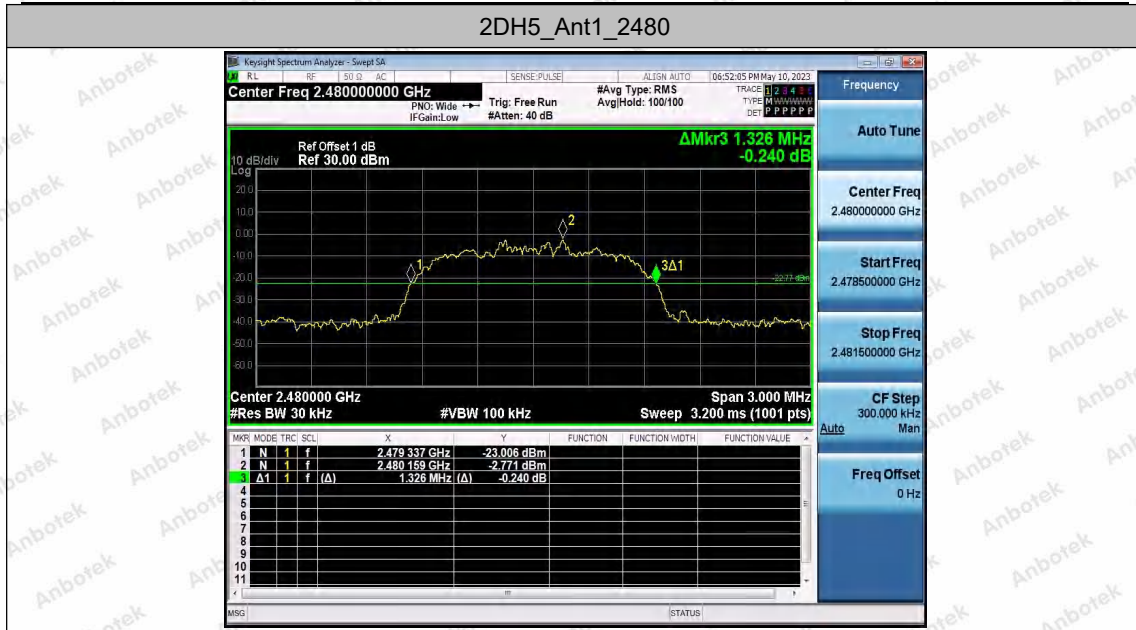


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## Appendix B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.89249	2401.5561	2402.4486
		2441	0.88607	2440.5566	2441.4427
		2480	0.91344	2479.5470	2480.4604
2DH5	Ant1	2402	1.1911	2401.4062	2402.5973
		2441	1.2047	2440.4006	2441.6053
		2480	1.1923	2479.4020	2480.5943

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## Test Graphs



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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

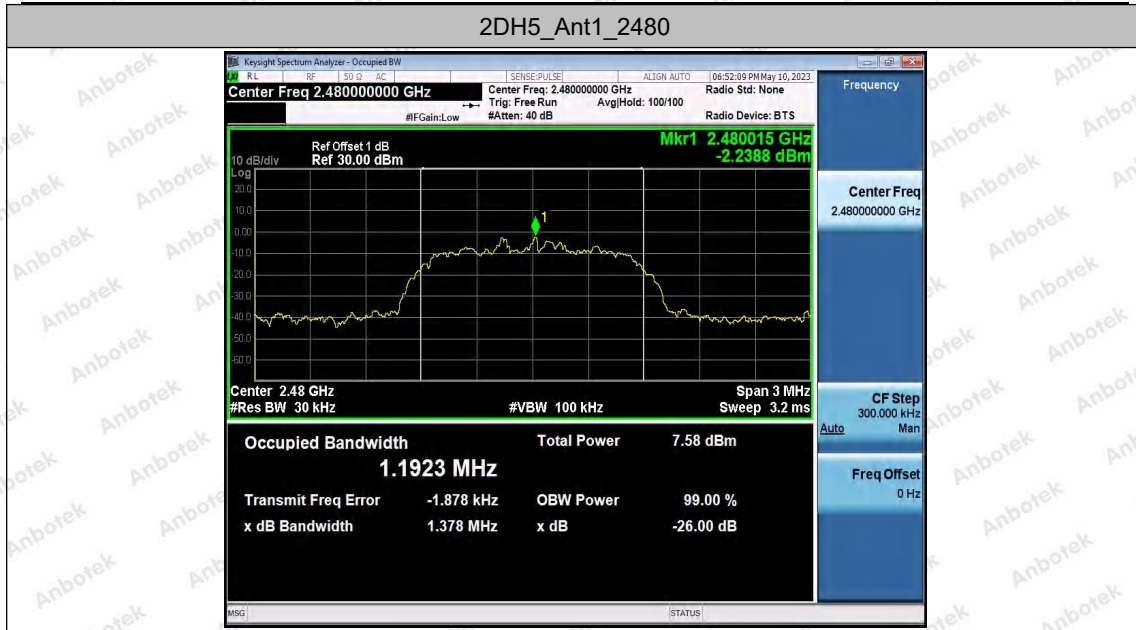


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## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	<b>3.84</b>	≤20.97	PASS
		2441	3.53	≤20.97	PASS
		2480	2.86	≤20.97	PASS
2DH5	Ant1	2402	3.09	≤20.97	PASS
		2441	2.83	≤20.97	PASS
		2480	2.19	≤20.97	PASS

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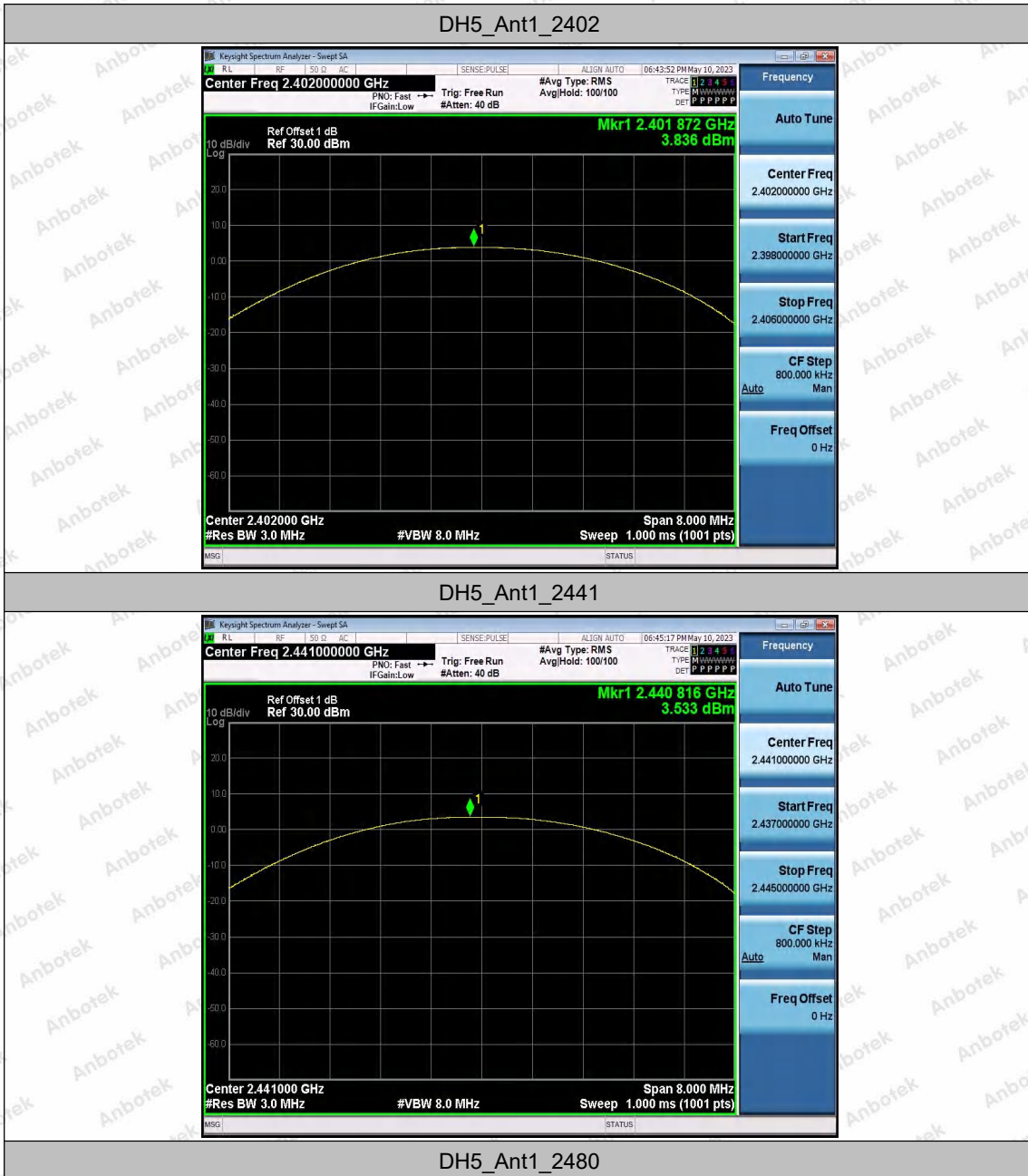
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## Test Graphs

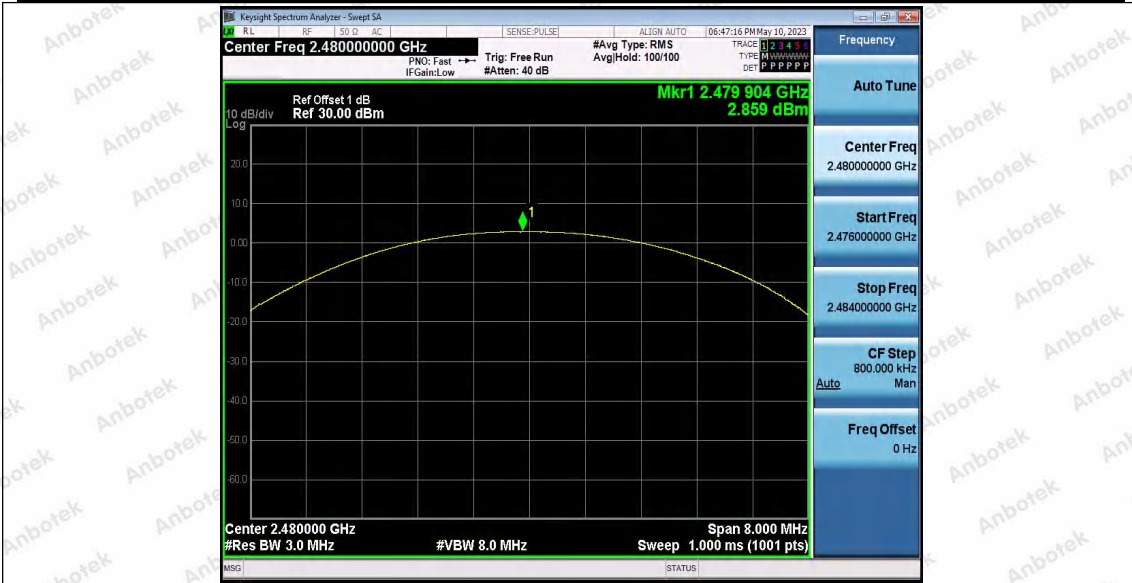


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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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## Appendix D: Carrier frequency separation

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥0.692	PASS
2DH5	Ant1	Hop	1.008	≥0.884	PASS

### Test Graphs



## Appendix E: Time of occupancy

### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.372	313	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.629	152	0.248	≤0.4	PASS
DH5	Ant1	Hop	2.877	111	0.319	≤0.4	PASS
2DH1	Ant1	Hop	0.380	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.631	165	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS

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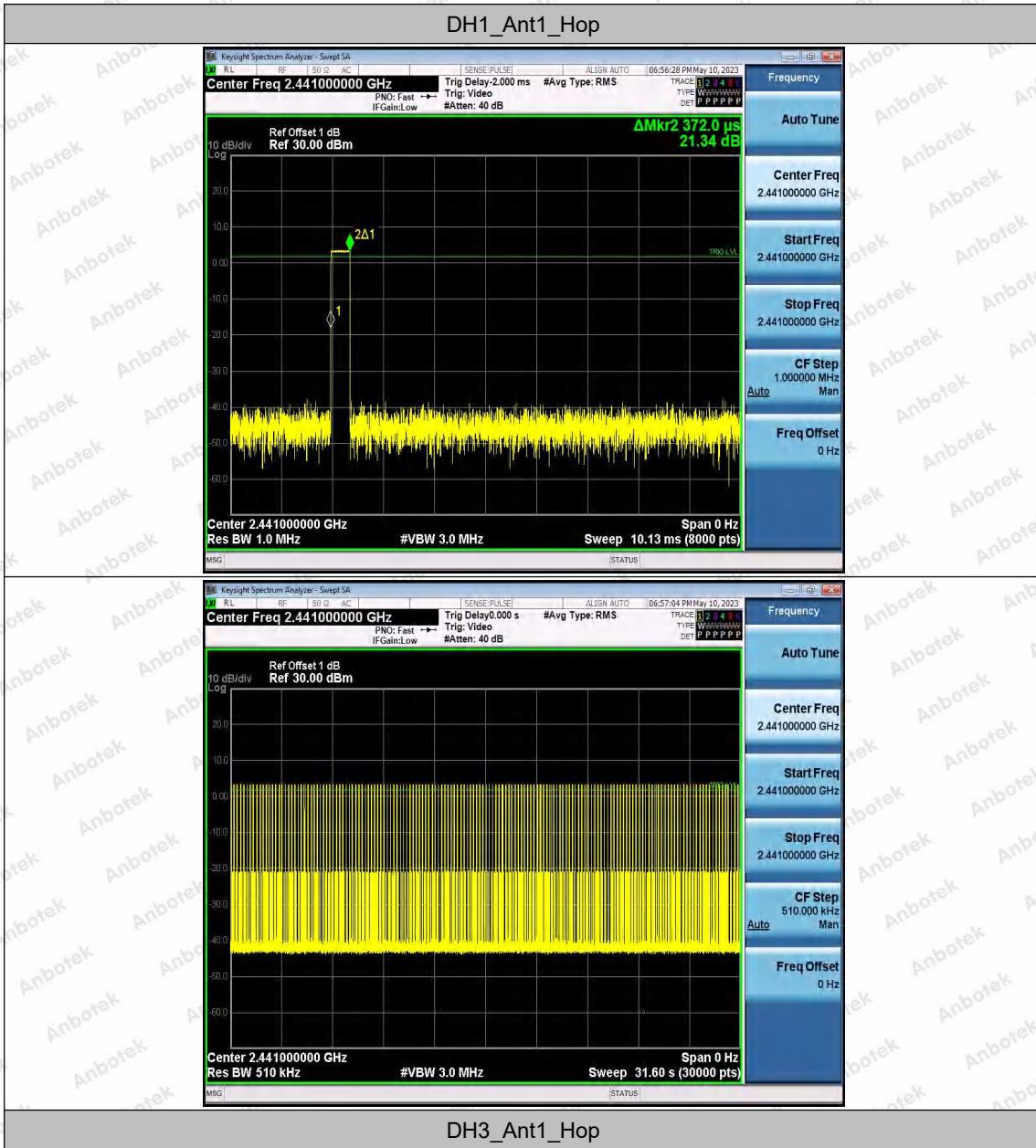
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## Test Graphs



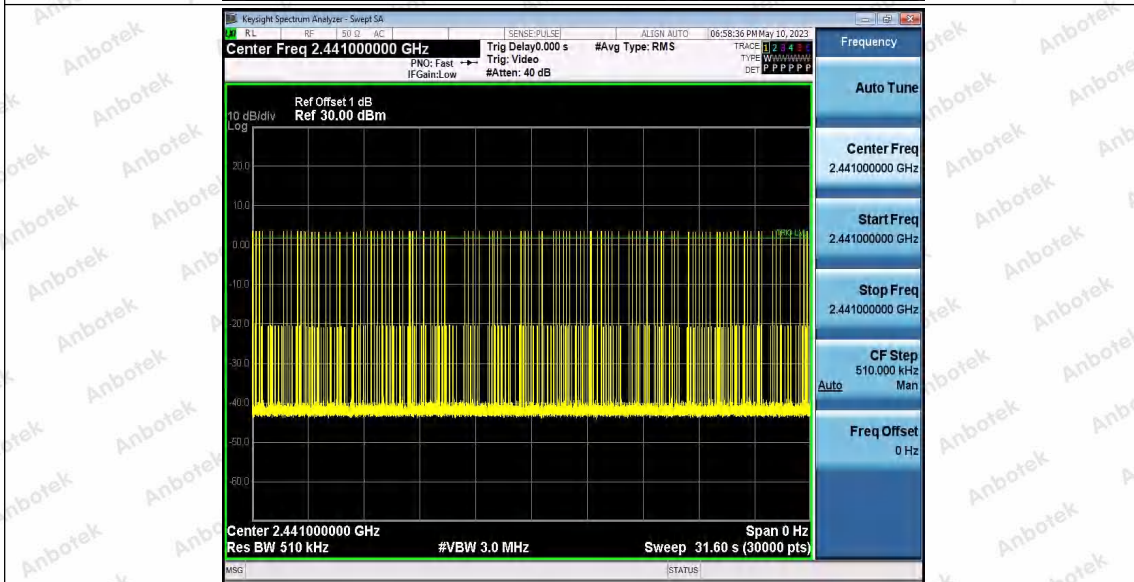
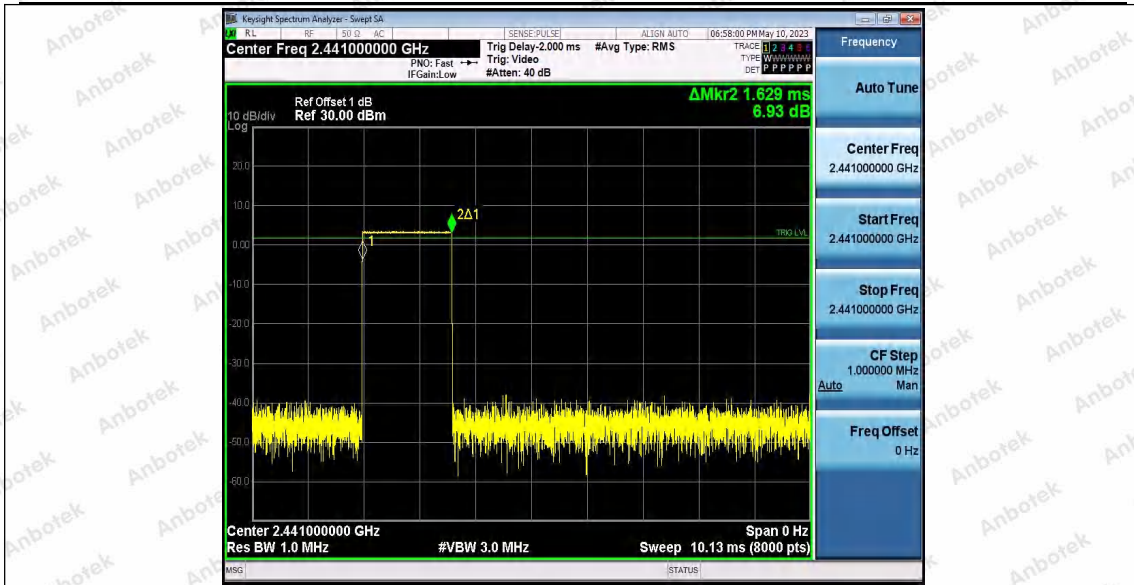
**DH3\_Ant1\_Hop**

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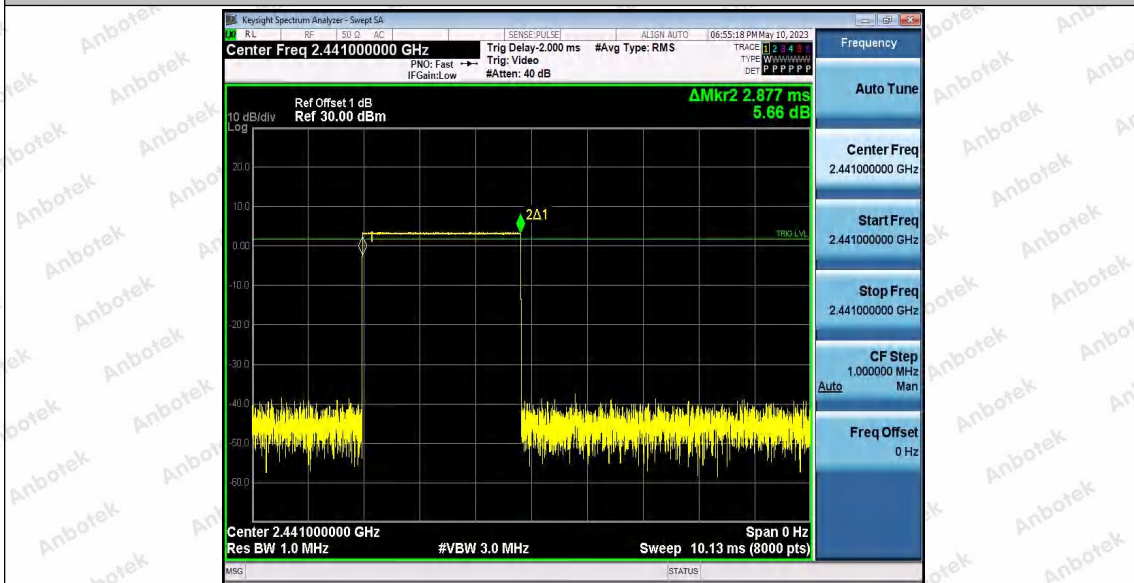
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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DH5\_Ant1\_Hop



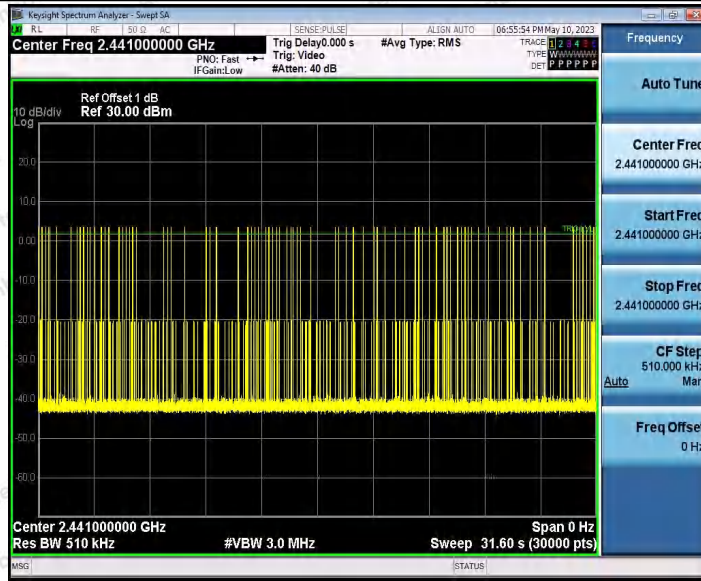
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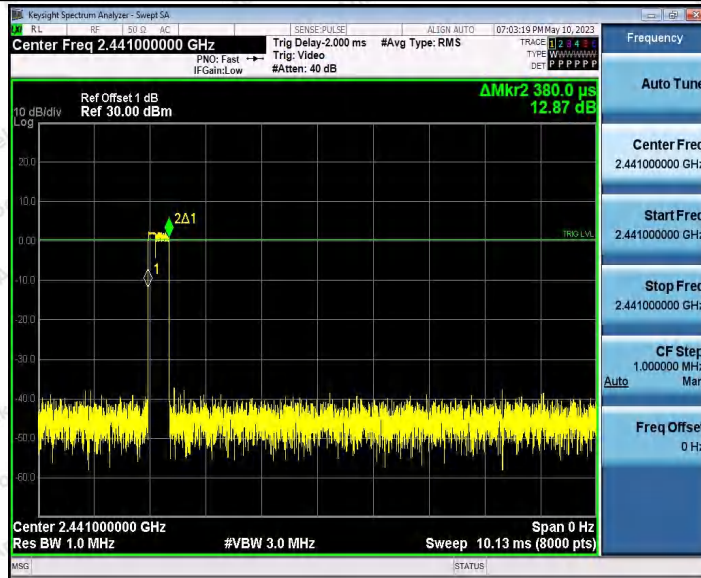
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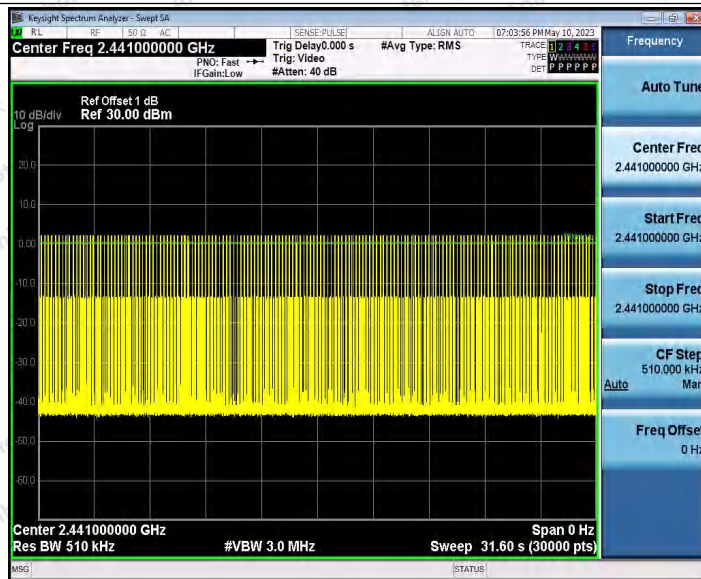




2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

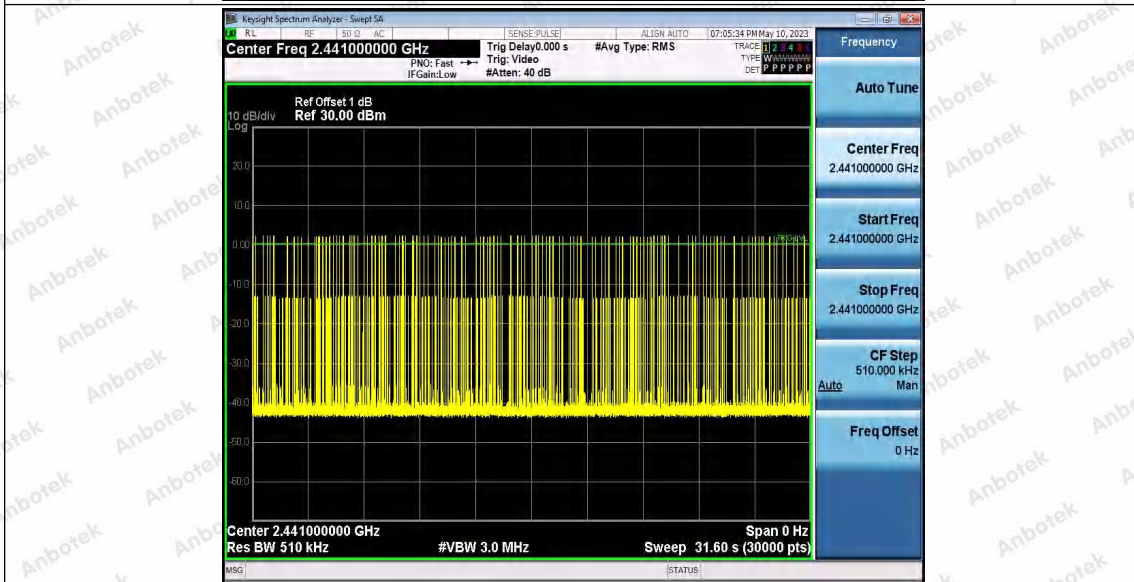
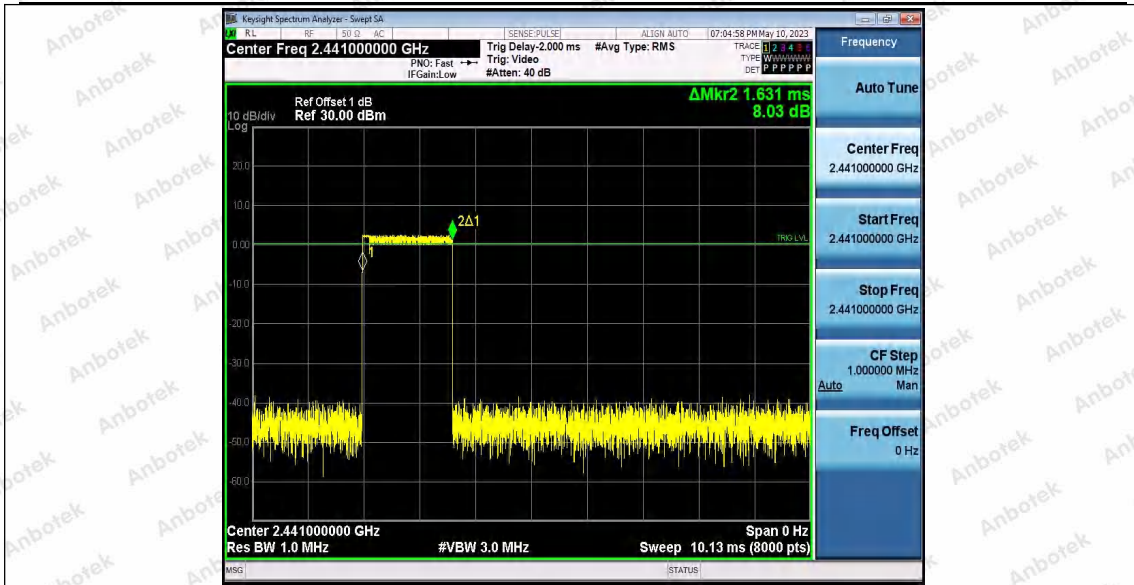


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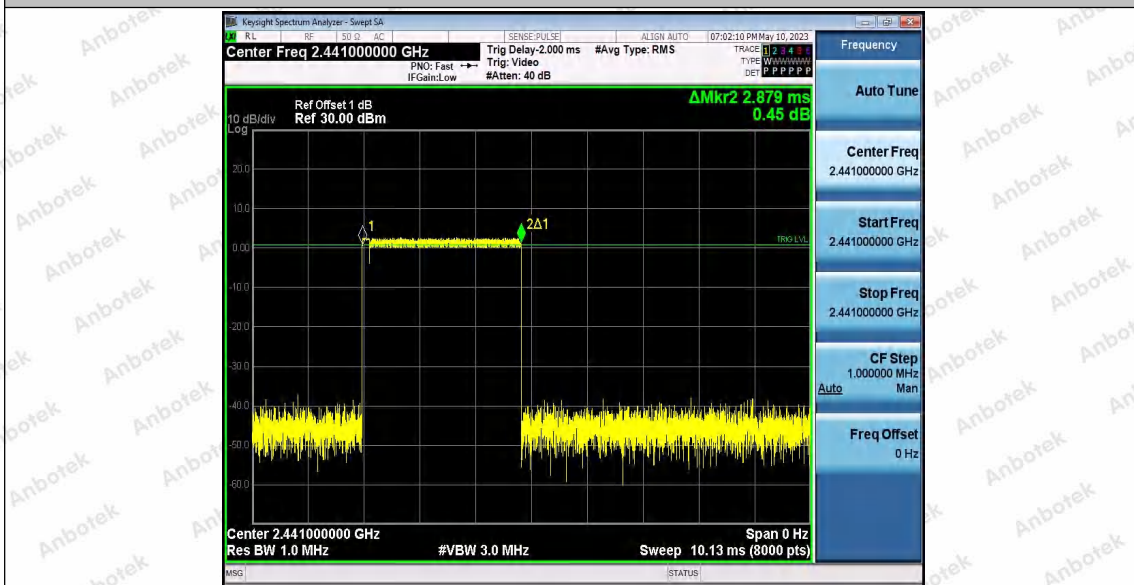
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2DH5\_Ant1\_Hop

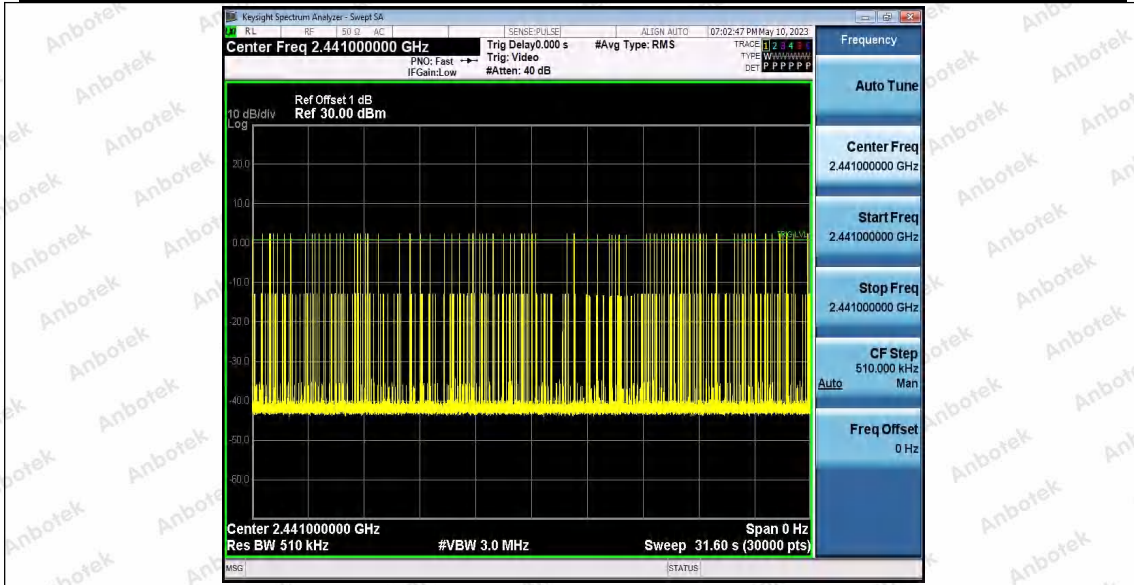


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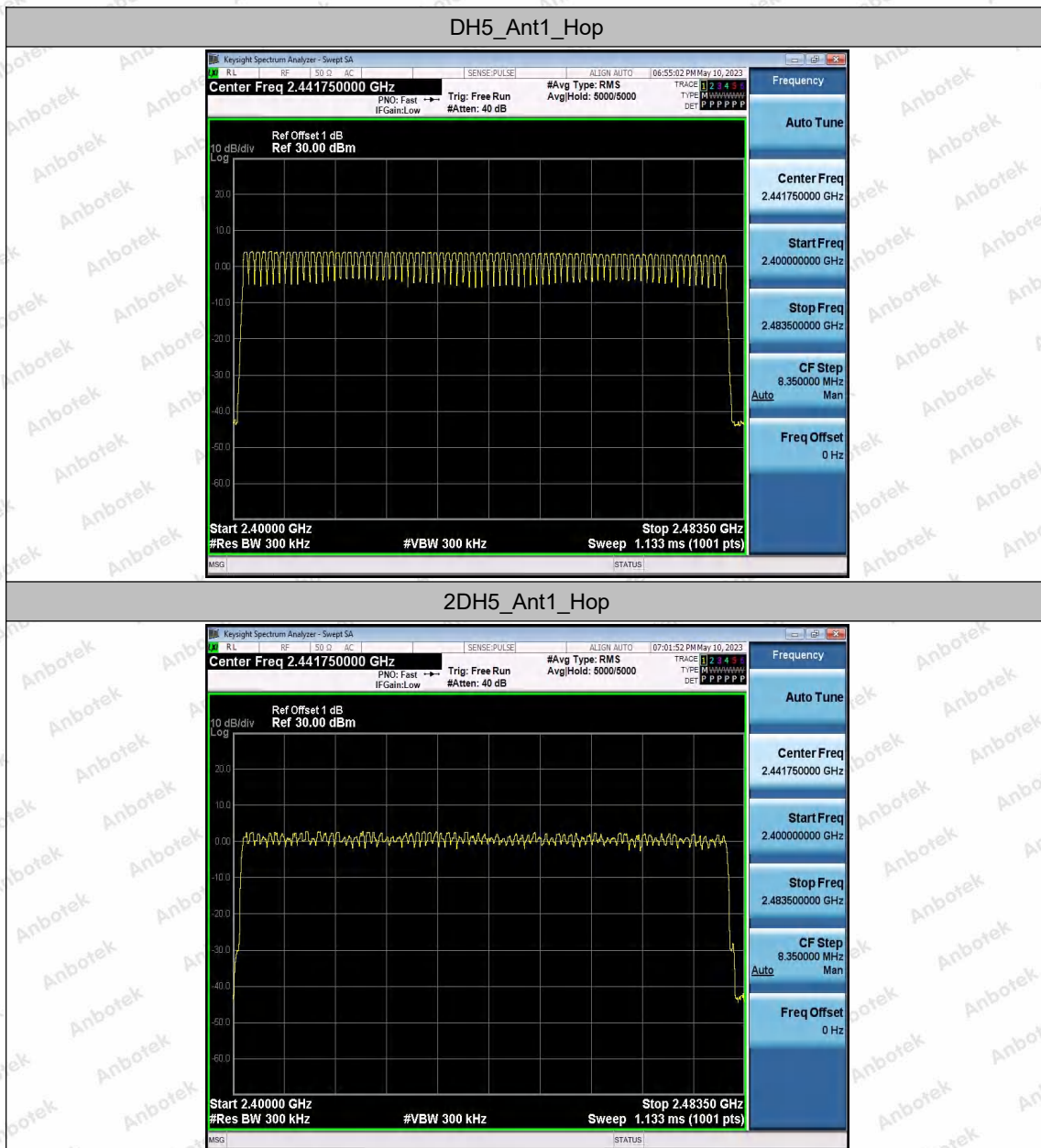


## Appendix F: Number of hopping channels

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

### Test Graphs



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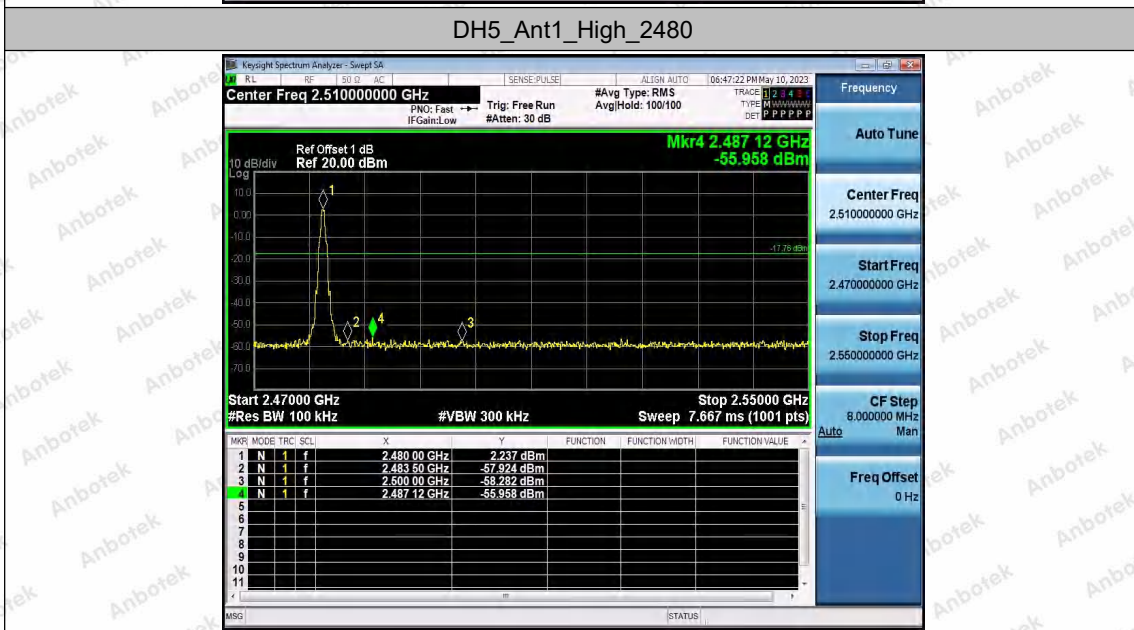
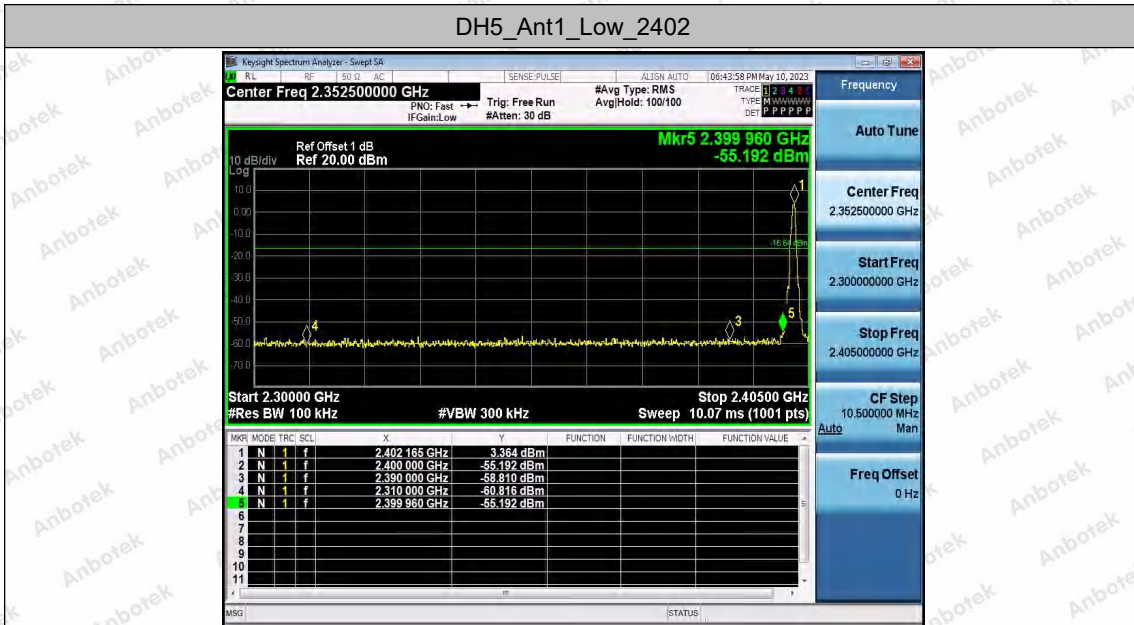
## Appendix G: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.36	-55.19	≤-16.64	PASS
		High	2480	2.24	-55.96	≤-17.76	PASS
		Low	Hop_2402	3.52	-56.03	≤-16.48	PASS
		High	Hop_2480	2.78	-55.67	≤-17.22	PASS
2DH5	Ant1	Low	2402	2.17	-53.83	≤-17.83	PASS
		High	2480	1.23	-55.66	≤-18.78	PASS
		Low	Hop_2402	1.81	-56.16	≤-18.19	PASS
		High	Hop_2480	-0.23	-55.36	≤-20.23	PASS



## Test Graphs



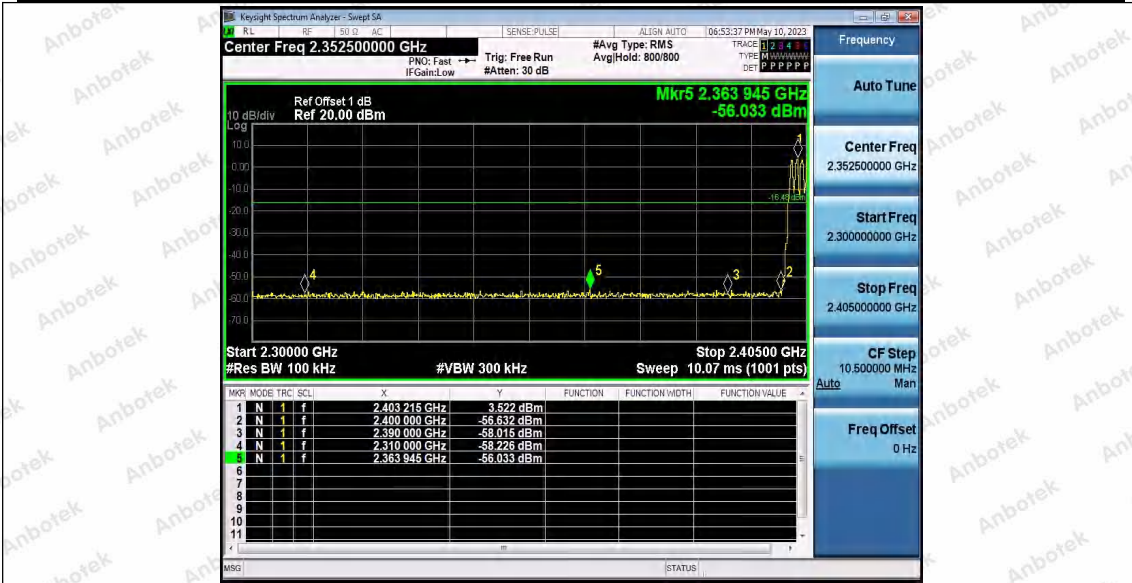
DH5\_Ant1\_Low\_Hop\_2402

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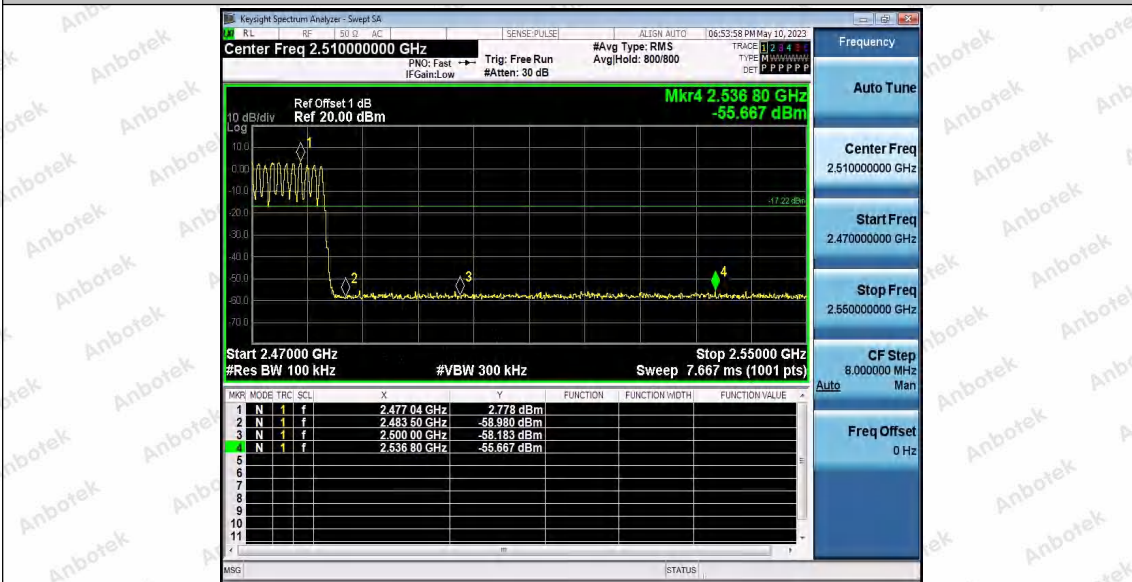
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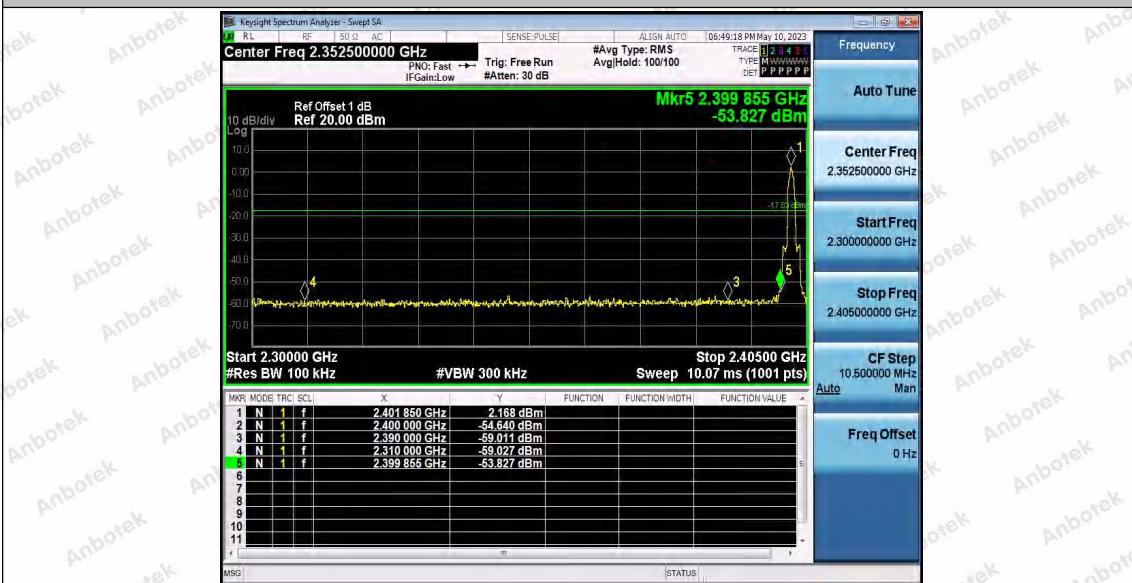




DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402



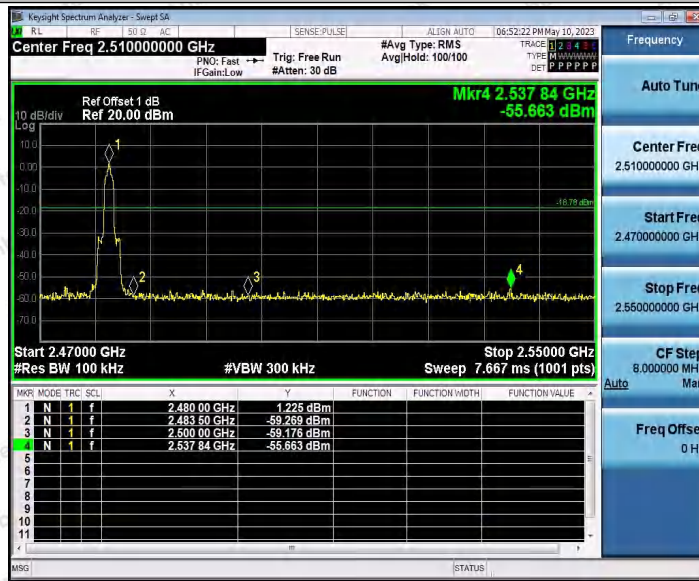
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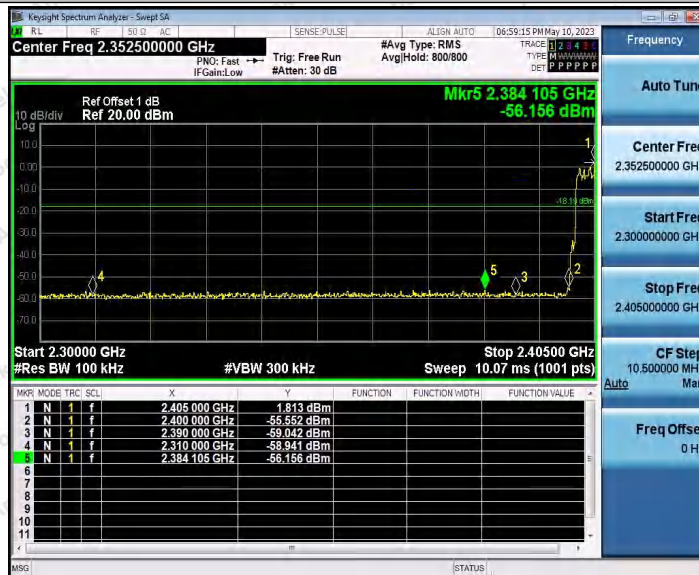
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop\_2402



### 2DH5\_Ant1\_High\_Hop\_2480

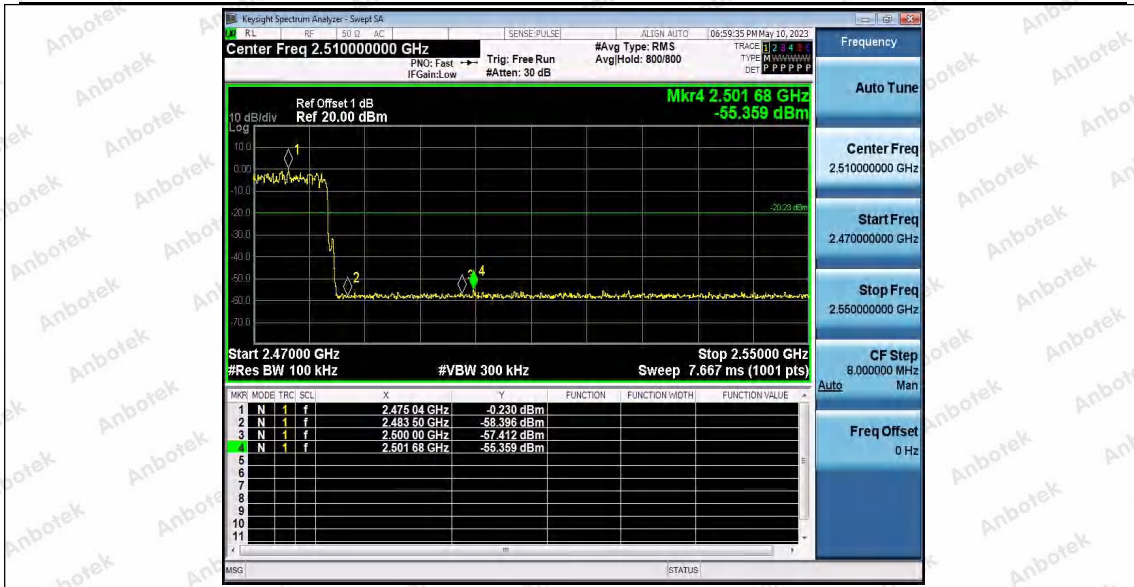
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## Appendix H: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-35.88	≤-16.77	PASS
			1000~26500	3.23	-51.17	≤-16.77	PASS
		2441	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-68.34	≤-16.85	PASS
			1000~26500	3.15	-51.74	≤-16.85	PASS
		2480	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-68.5	≤-18.02	PASS
			1000~26500	1.98	-48.4	≤-18.02	PASS
2DH5	Ant1	2402	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-68.88	≤-21.18	PASS
			1000~26500	-1.18	-51.92	≤-21.18	PASS
		2441	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-68.4	≤-19.62	PASS
			1000~26500	0.38	-52.23	≤-19.62	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-68.53	≤-21.65	PASS
			1000~26500	-1.65	-51.45	≤-21.65	PASS

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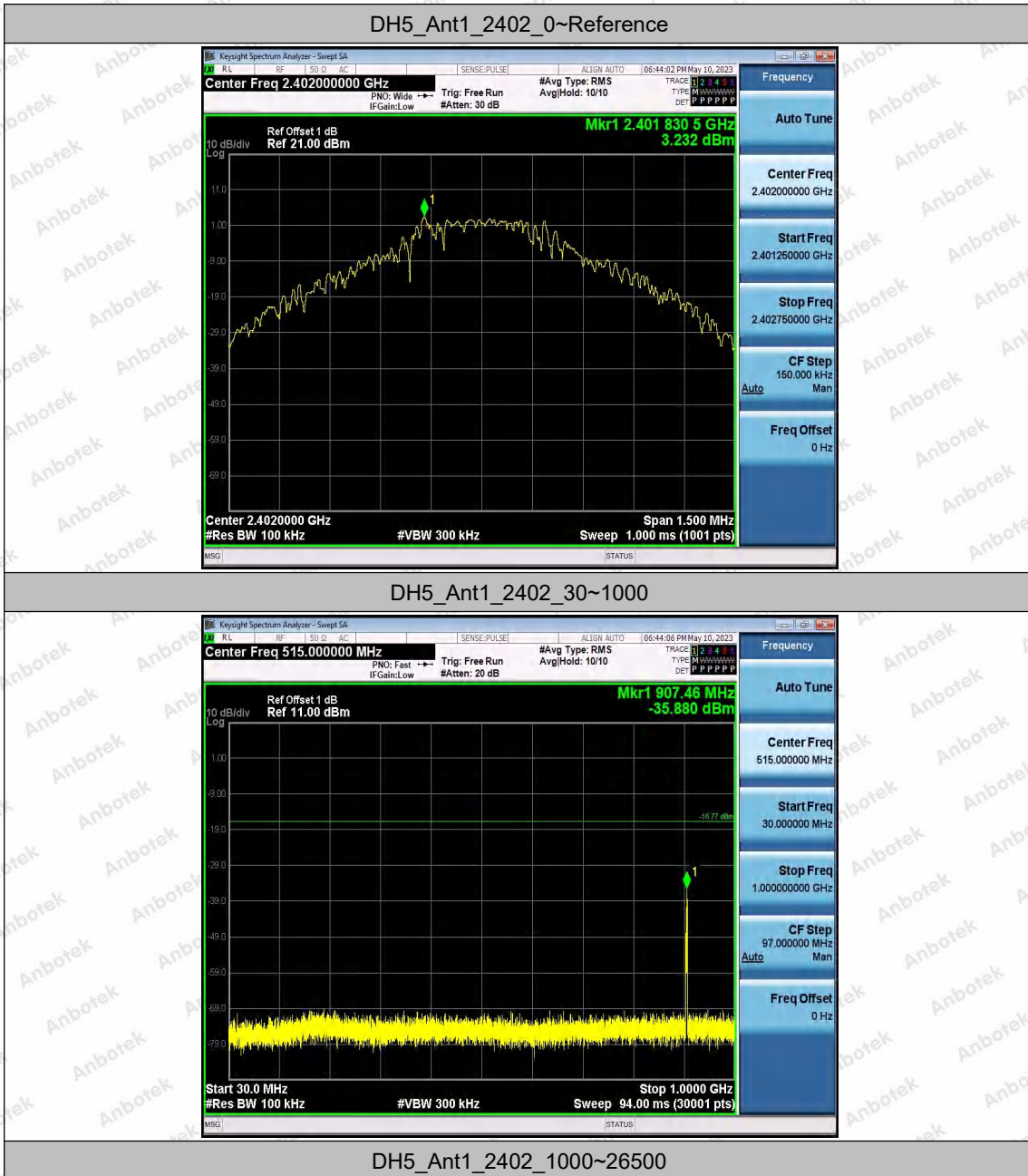
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## Test Graphs



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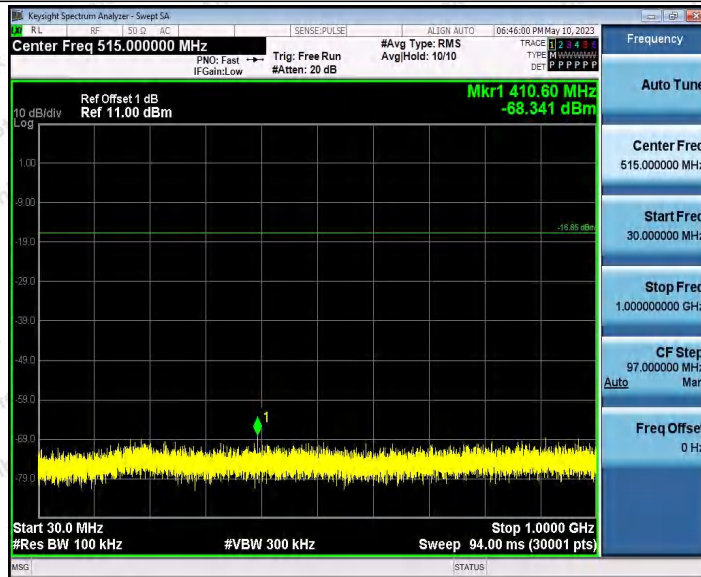




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



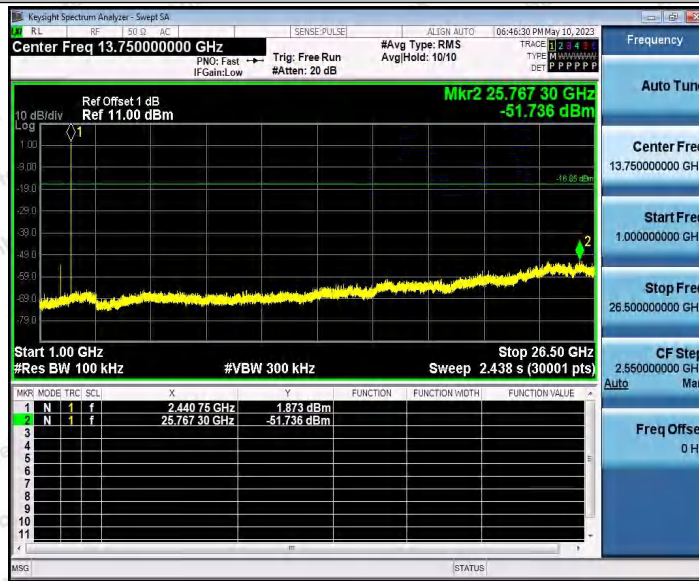
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### DH5\_Ant1\_2441\_1000~26500



### DH5\_Ant1\_2480\_0~Reference



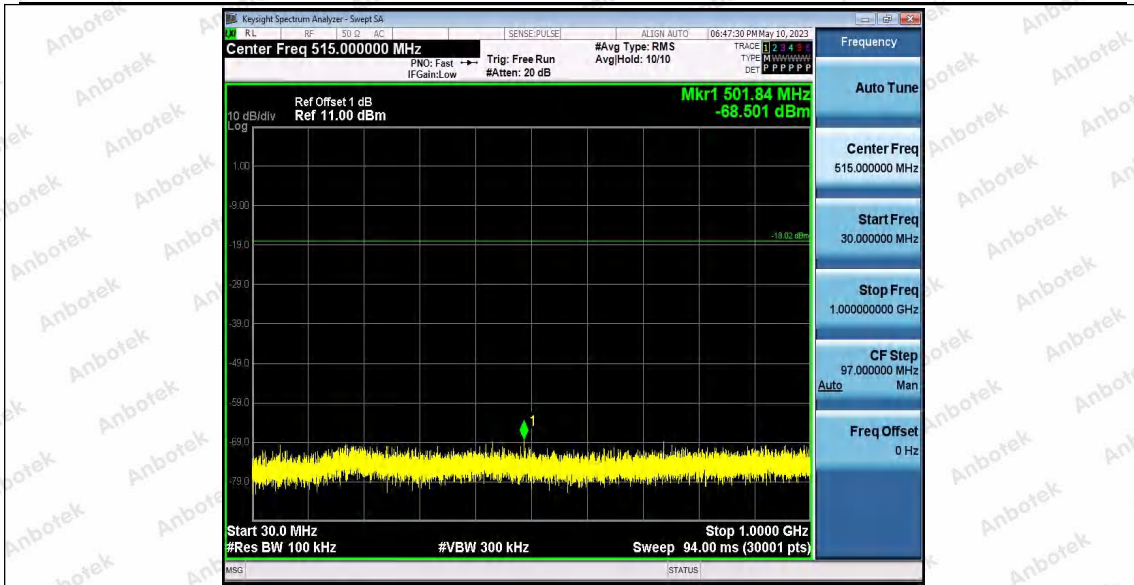
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference

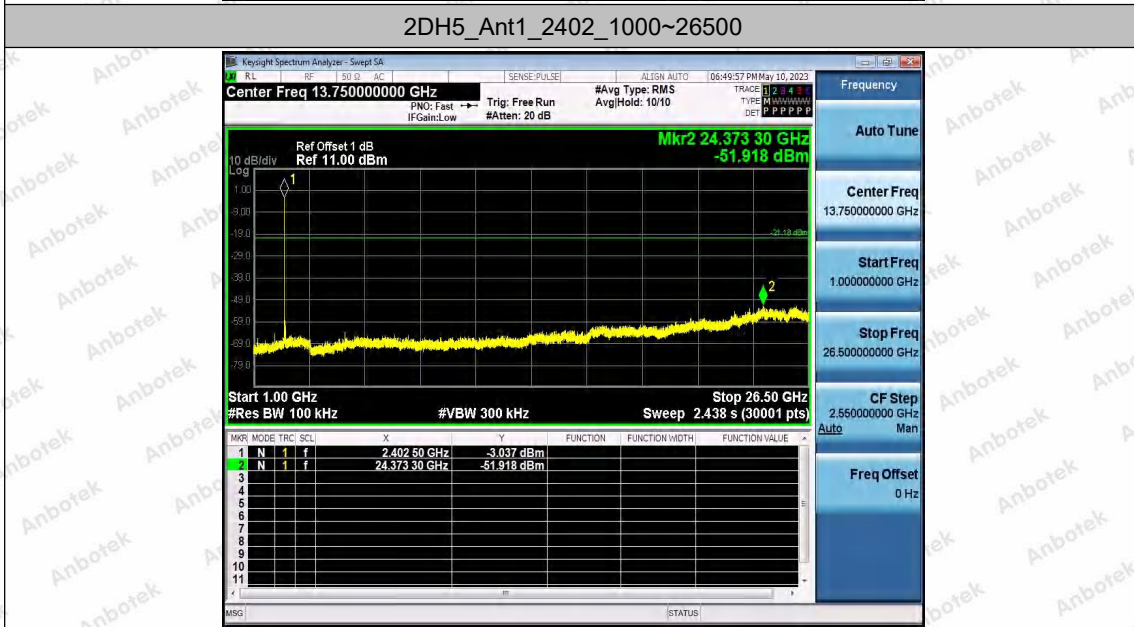
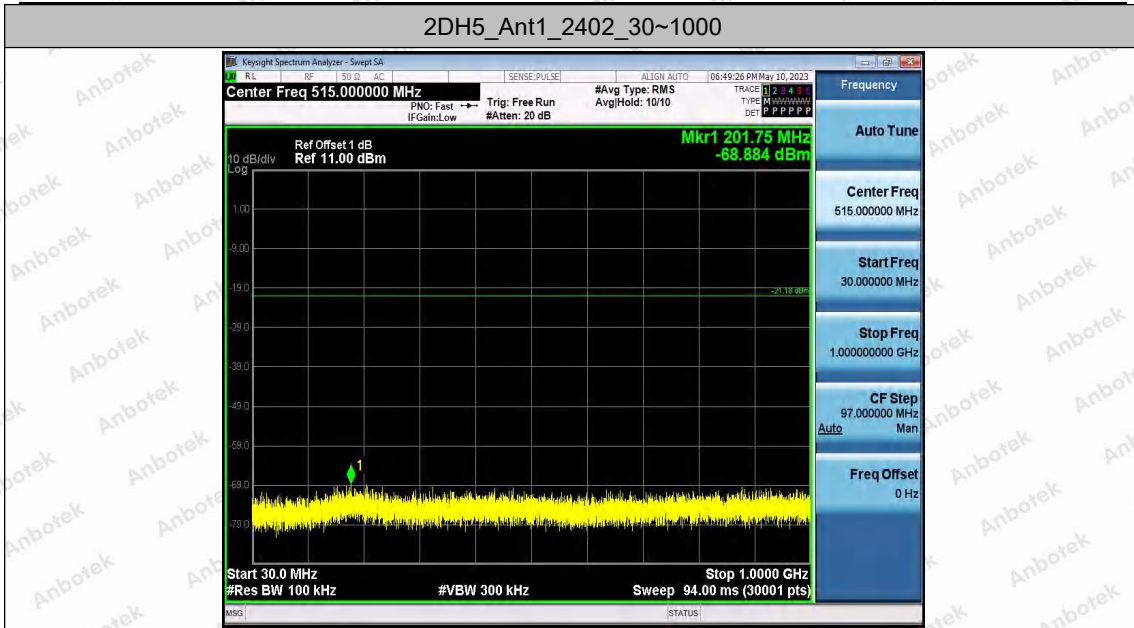


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**2DH5\_Ant1\_2441\_0~Reference**

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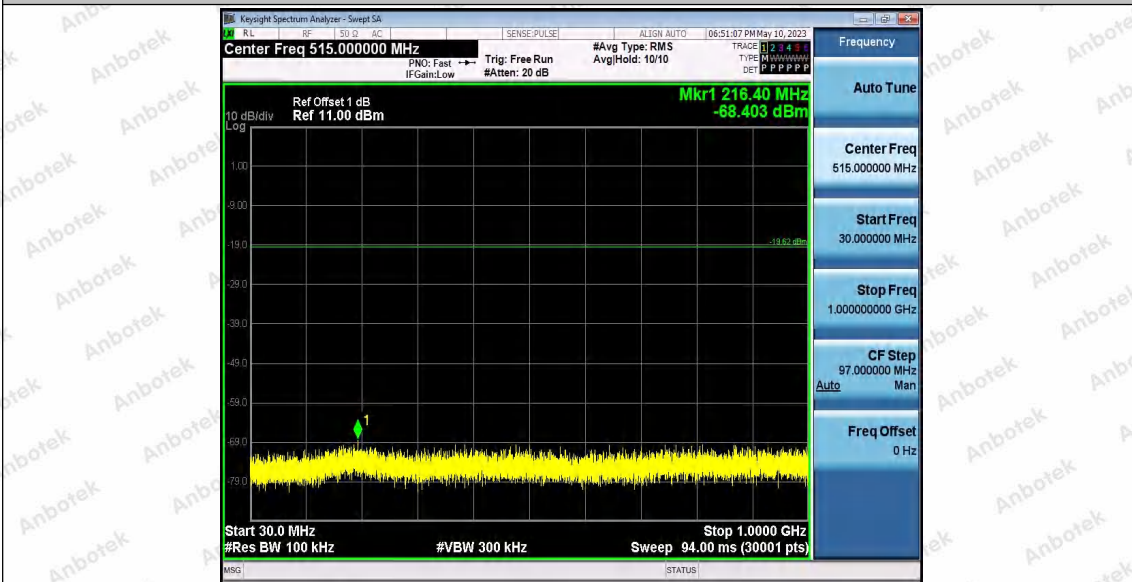
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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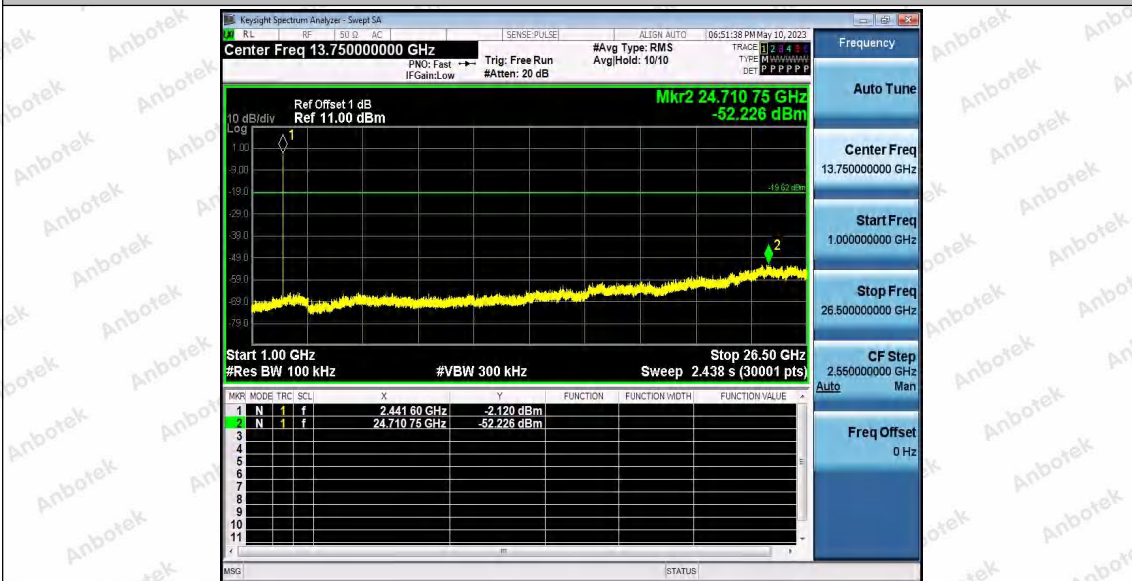




2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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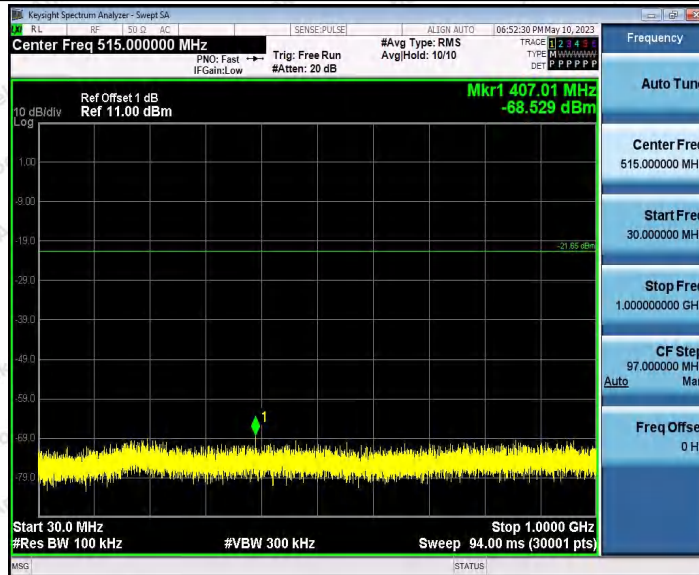




### 2DH5\_Ant1\_2480\_0~Reference



### 2DH5\_Ant1\_2480\_30~1000



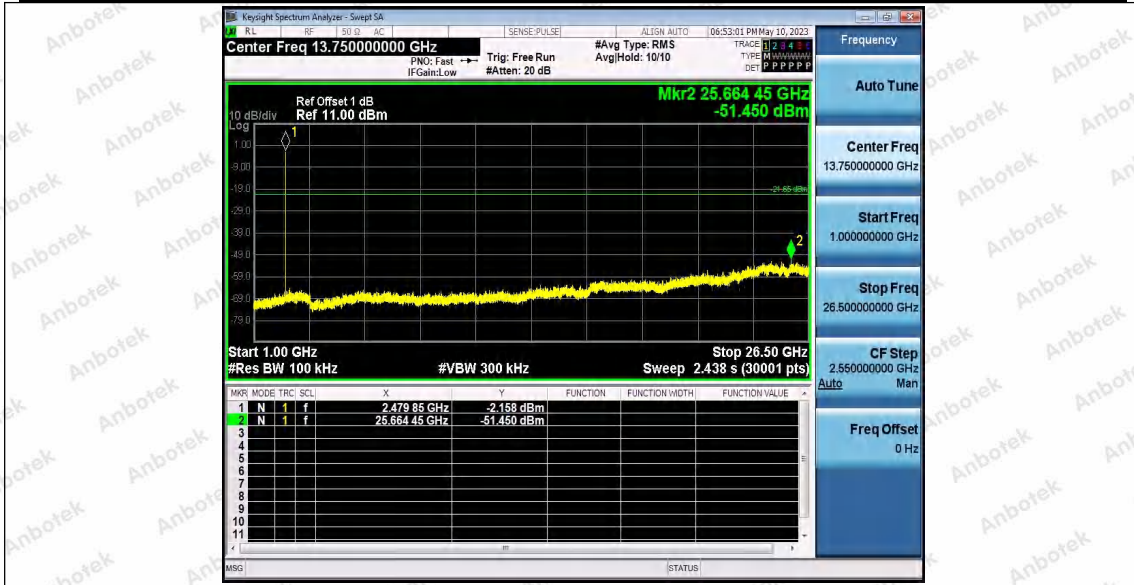
### 2DH5\_Ant1\_2480\_1000~26500

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## Appendix I: Duty Cycle

### Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.76	76.86	1.14
		2480	2.88	3.74	77.01	1.13

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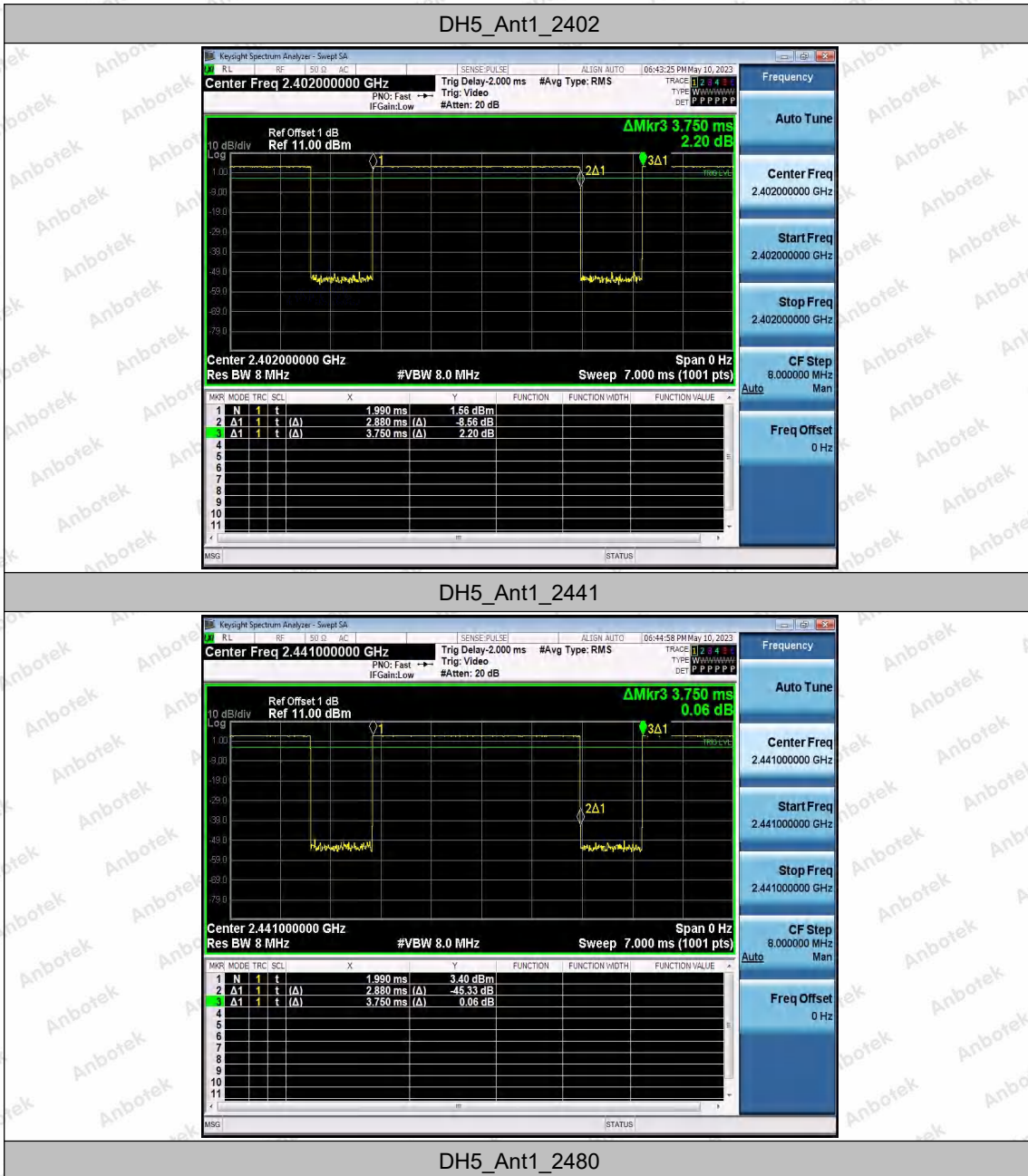
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## Test Graphs

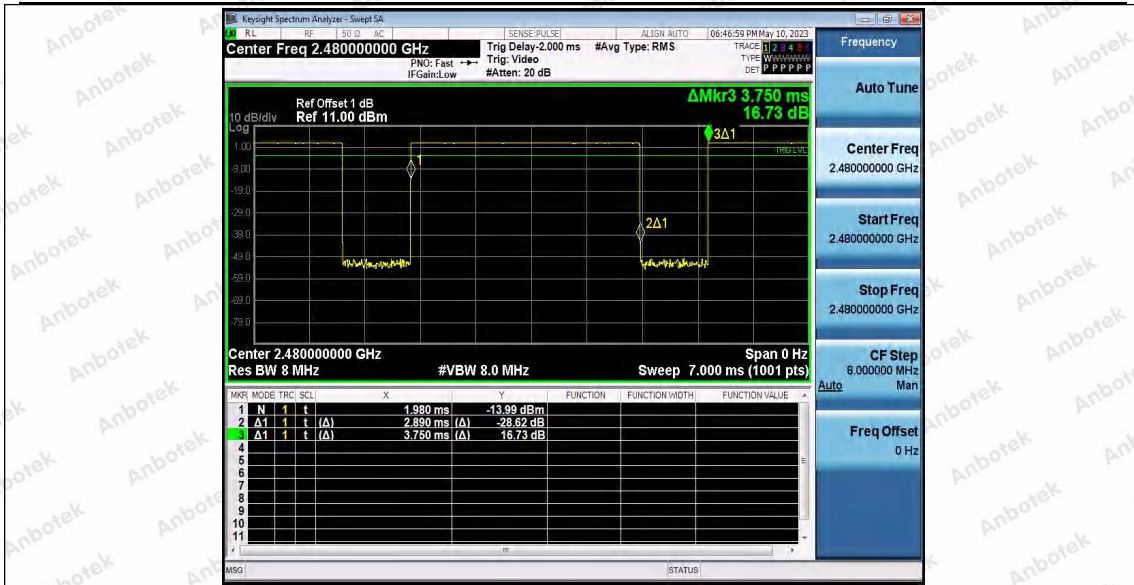


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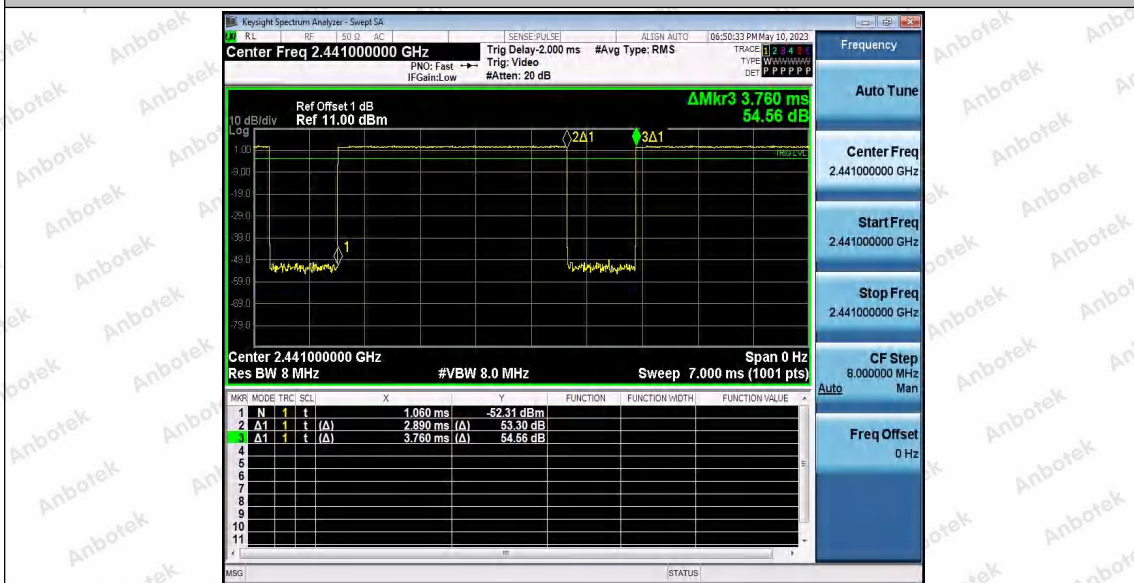




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

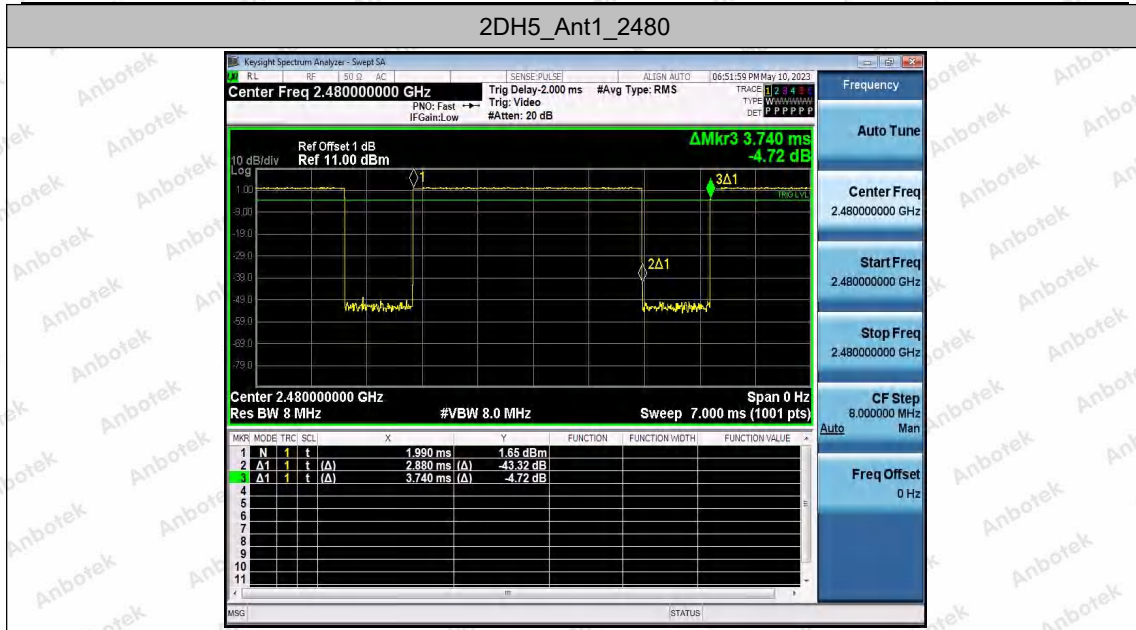


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