

## Appendix Test Data

Report No.:	18220WC20088101	Test Sample No.:	1-2-2
Start Test Date:	2022.4.21	Finish Test Date:	2022.4.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

## Appendix A: 20dB Emission Bandwidth

## Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.317	2479.337	2480.654	---	PASS
3DH5	Ant1	2402	1.266	2401.358	2402.624	---	PASS
		2441	1.332	2440.331	2441.663	---	PASS
		2480	1.332	2479.328	2480.660	---	PASS

## Test Graphs







2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402



3DH5\_Ant1\_2441

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3DH5\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89116	2401.55 4	2402.445	---	PASS
		2441	0.88824	2440.55 4	2441.443	---	PASS
		2480	0.89784	2479.55 2	2480.449	---	PASS
2DH5	Ant1	2402	1.1953	2401.40 3	2402.598	---	PASS
		2441	1.1962	2440.40 2	2441.598	---	PASS
		2480	1.1884	2479.40 5	2480.594	---	PASS
3DH5	Ant1	2402	1.2090	2401.38 7	2402.596	---	PASS
		2441	1.2109	2440.38 7	2441.597	---	PASS
		2480	1.2051	2479.38 9	2480.595	---	PASS

## Test Graphs



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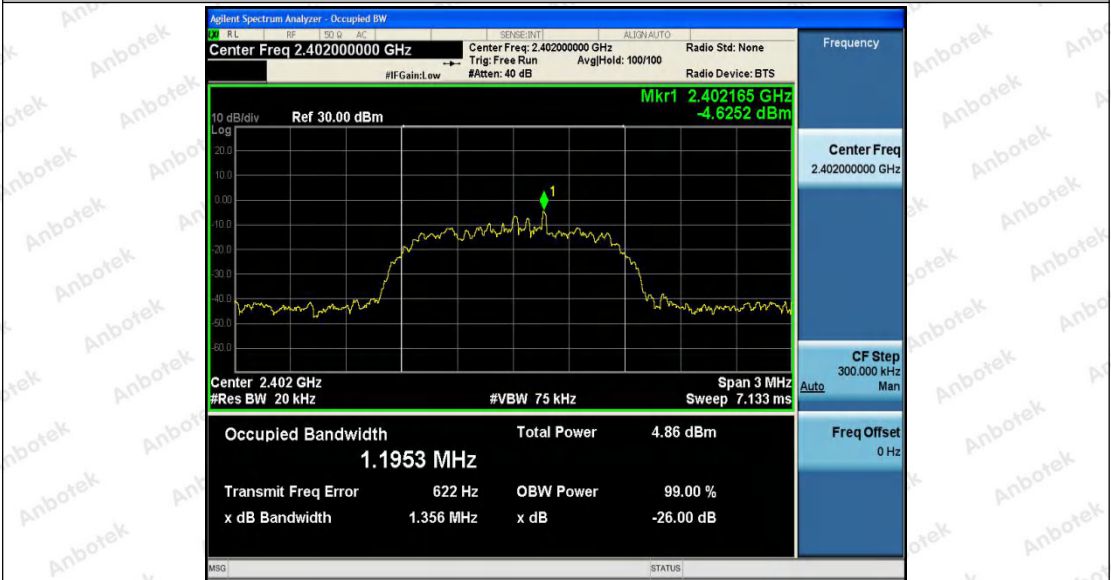
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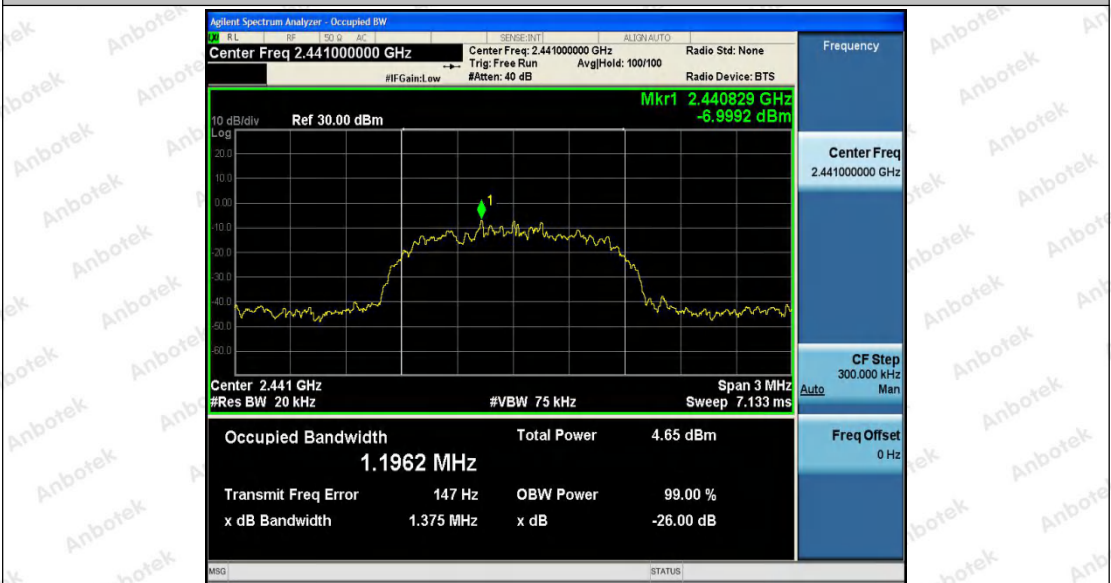




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

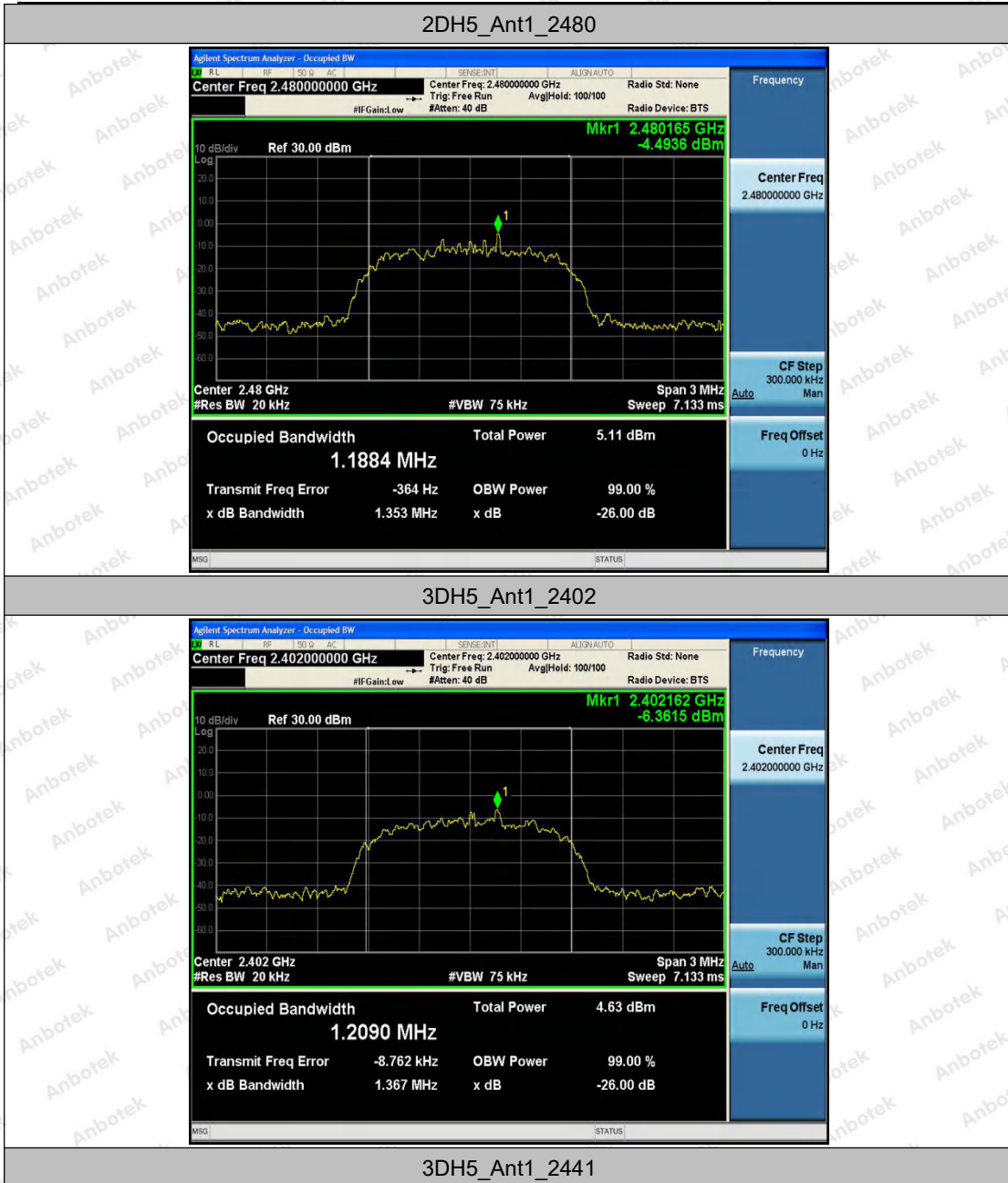


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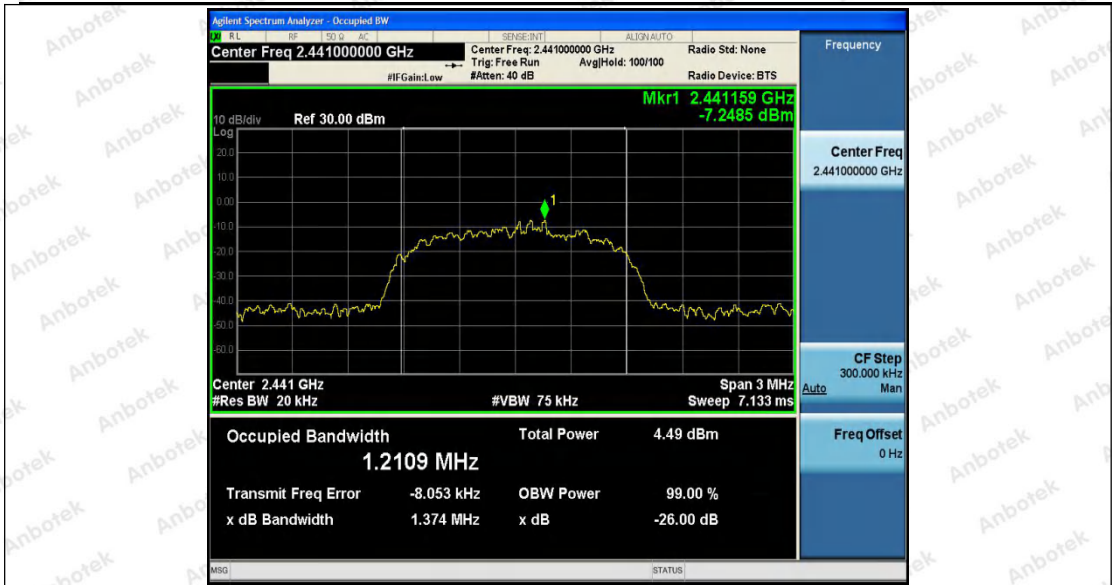


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3DH5\_Ant1\_2480



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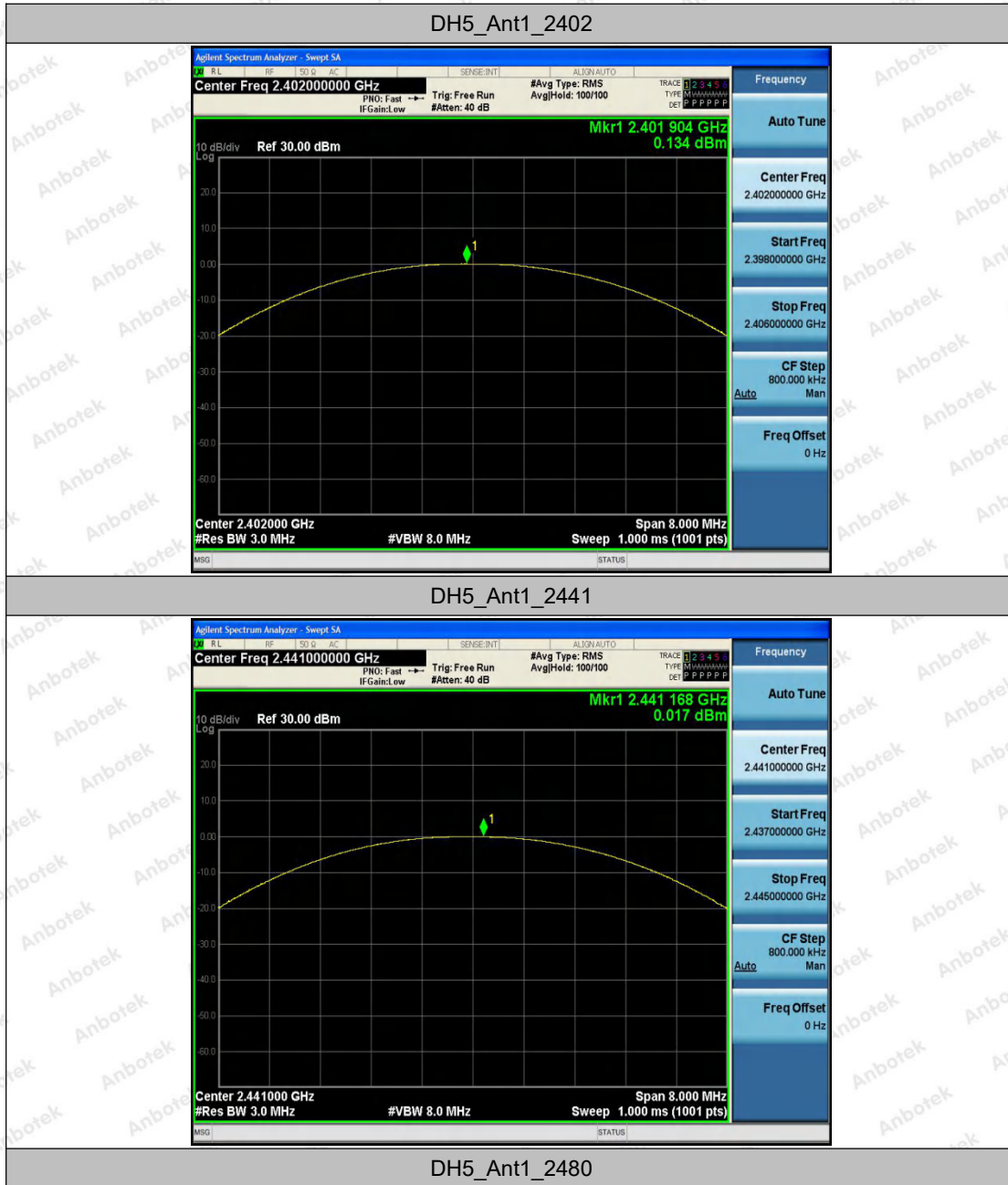


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.13	≤20.97	PASS
		2441	0.02	≤20.97	PASS
		2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	-0.51	≤20.97	PASS
		2441	-0.6	≤20.97	PASS
		2480	-0.18	≤20.97	PASS
3DH5	Ant1	2402	-0.38	≤20.97	PASS
		2441	-0.49	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

## Test Graphs



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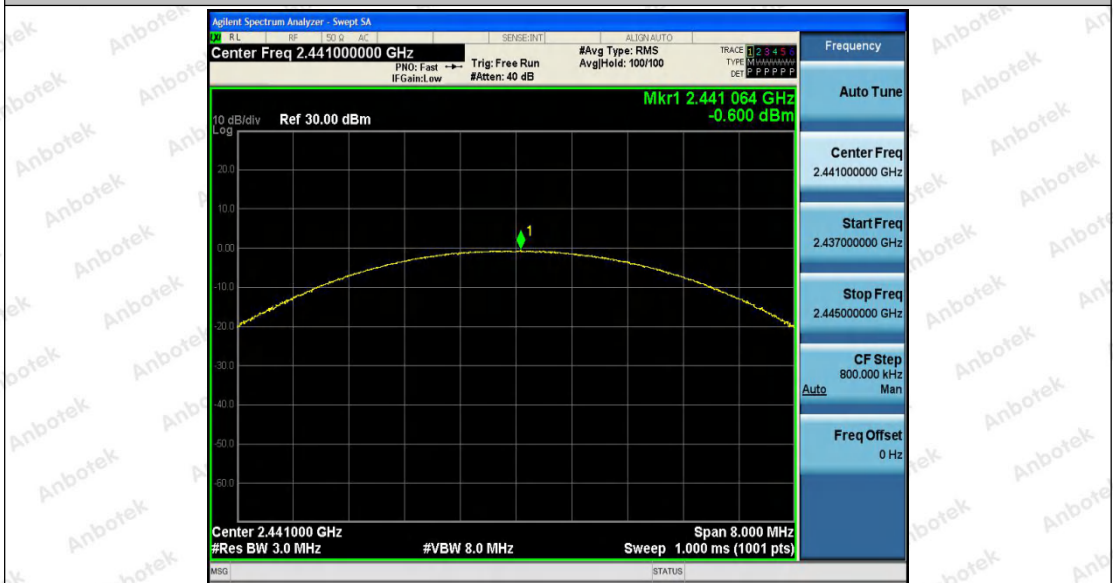




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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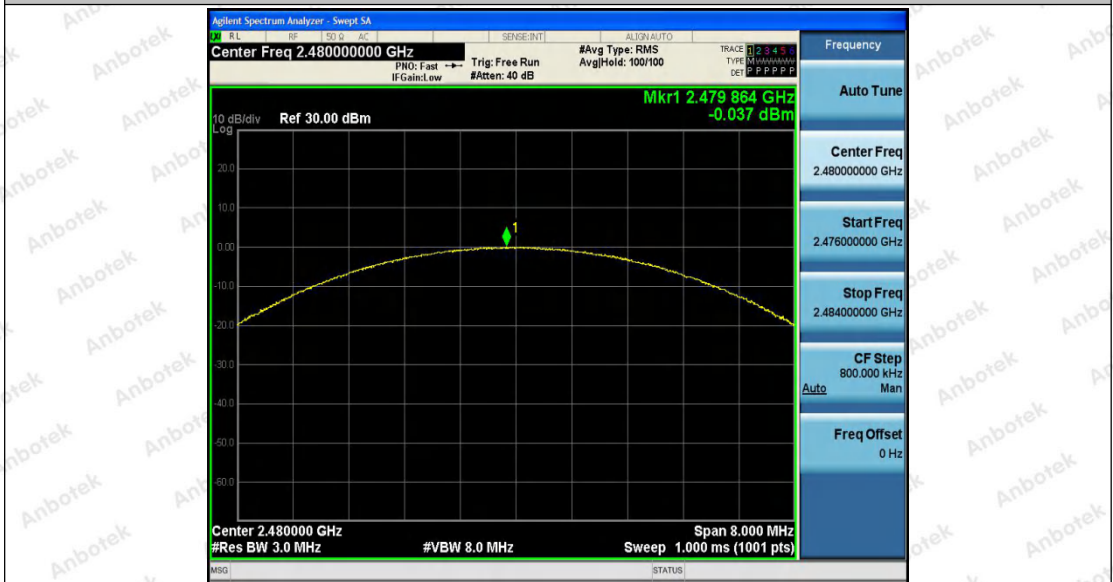
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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.026	≥0.948	PASS
2DH5	Ant1	Hop	1.18	≥0.882	PASS
3DH5	Ant1	Hop	1.194	≥0.888	PASS



## Test Graphs



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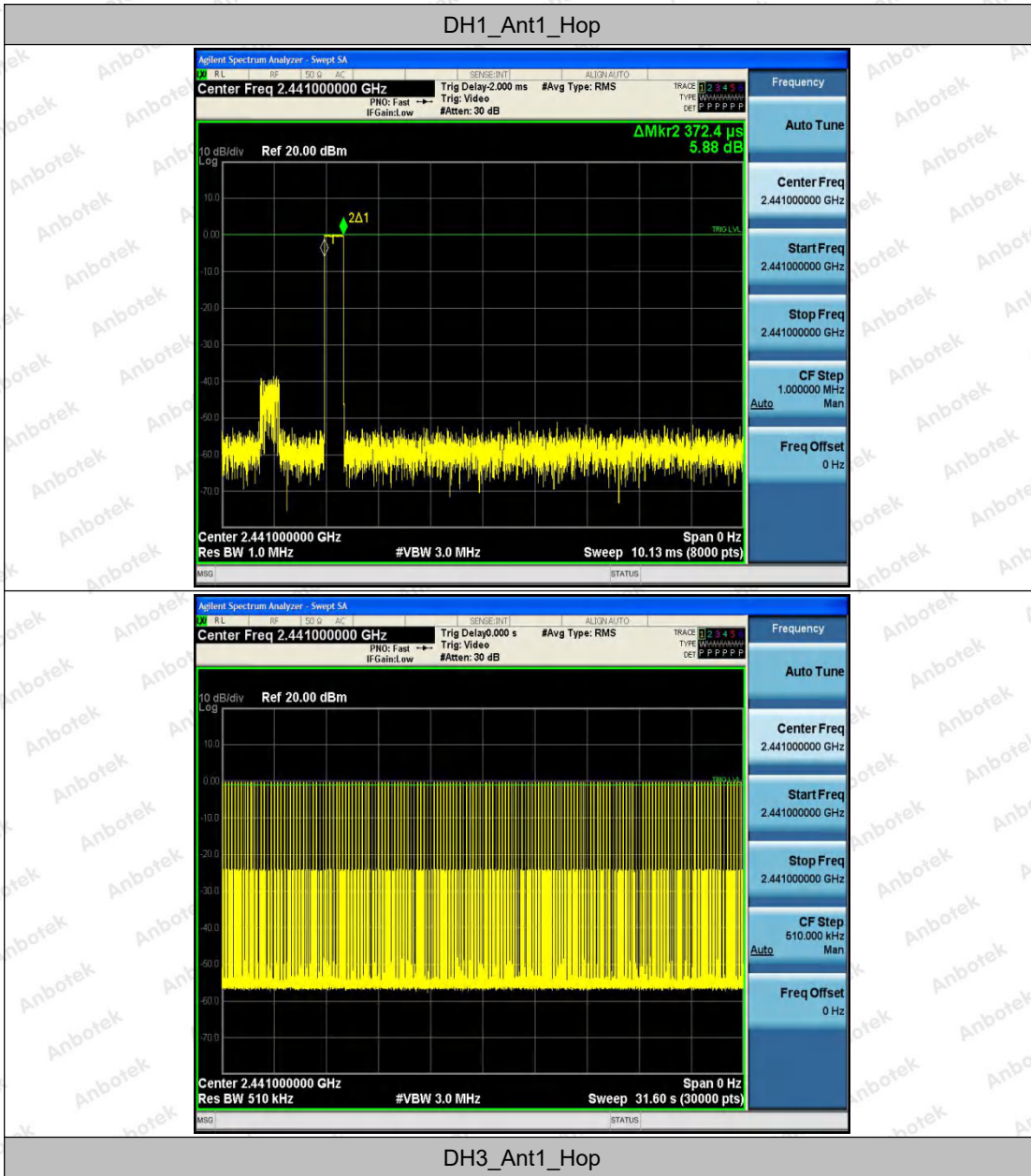
## Appendix E: Time of occupancy

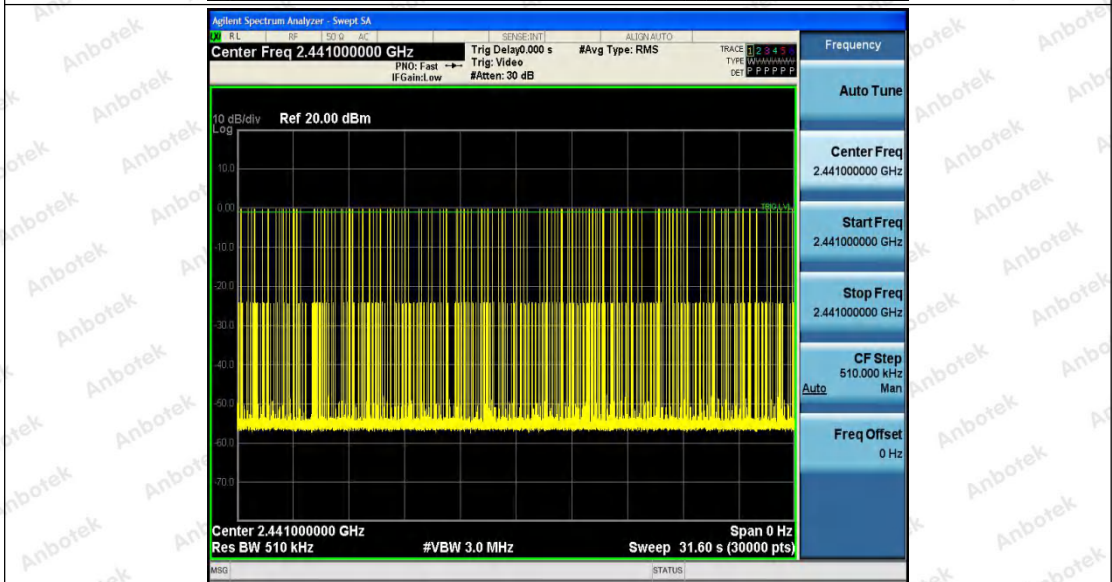
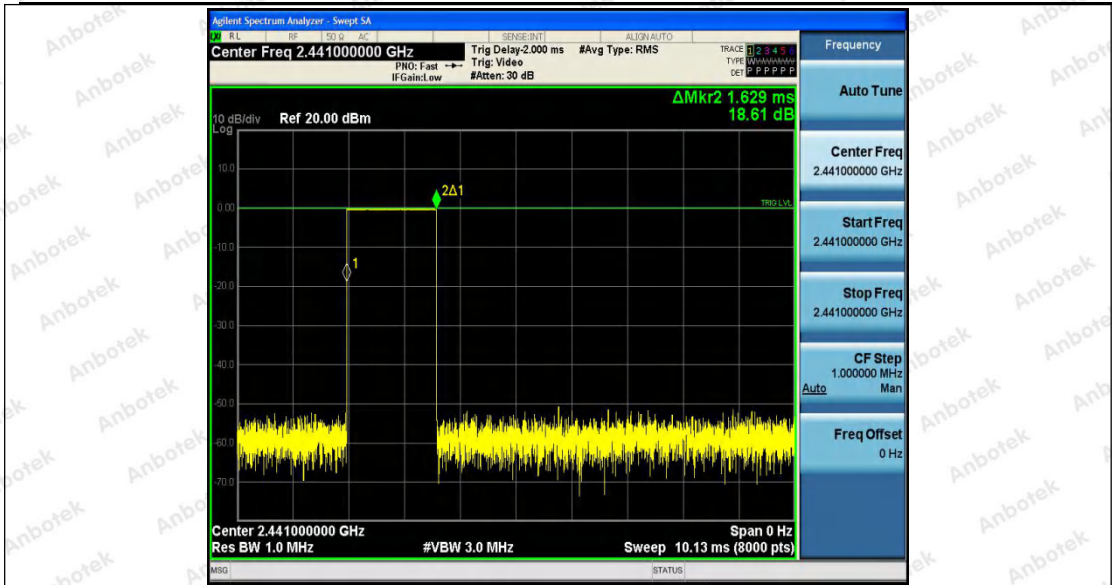
### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	113	0.325	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS



## Test Graphs





DH5\_Ant1\_Hop



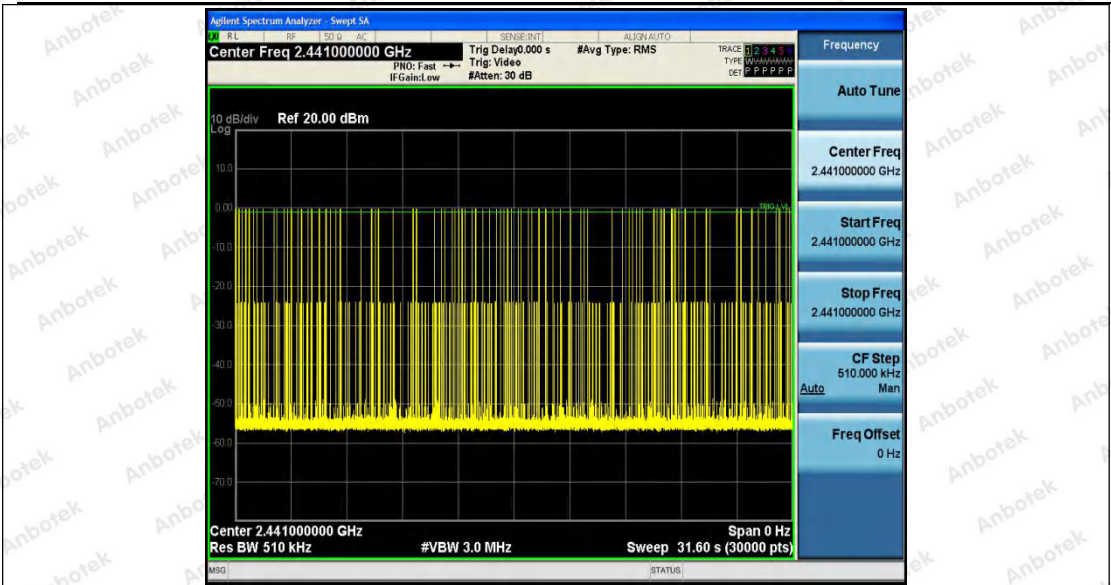
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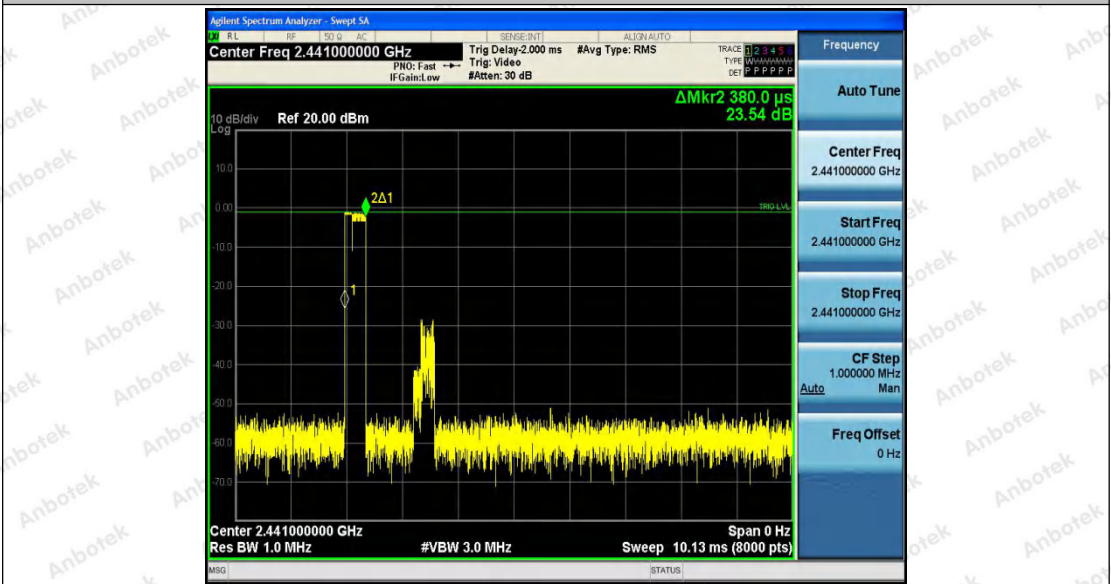
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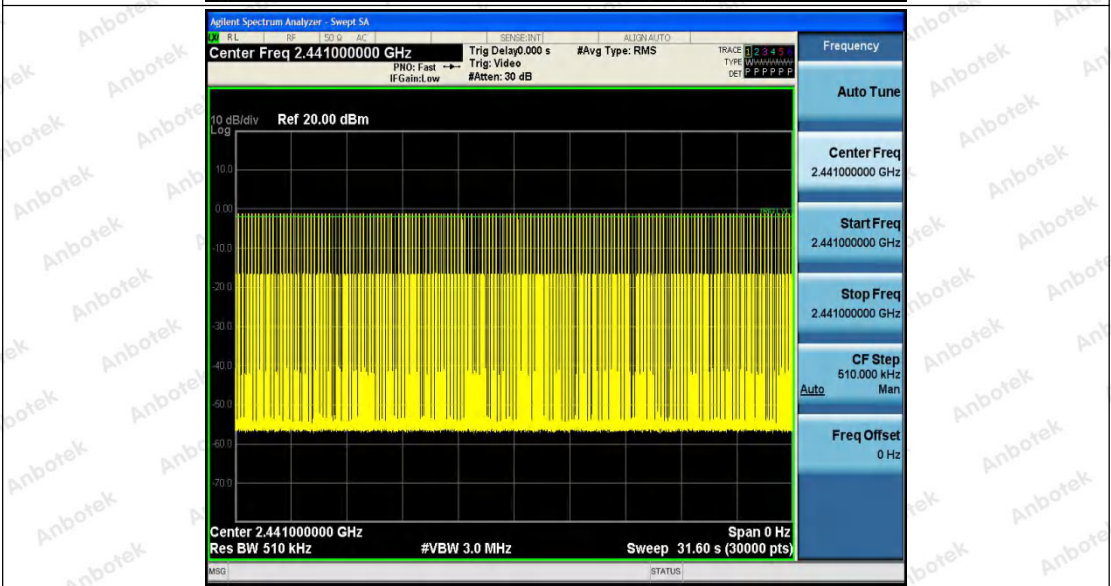




2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop



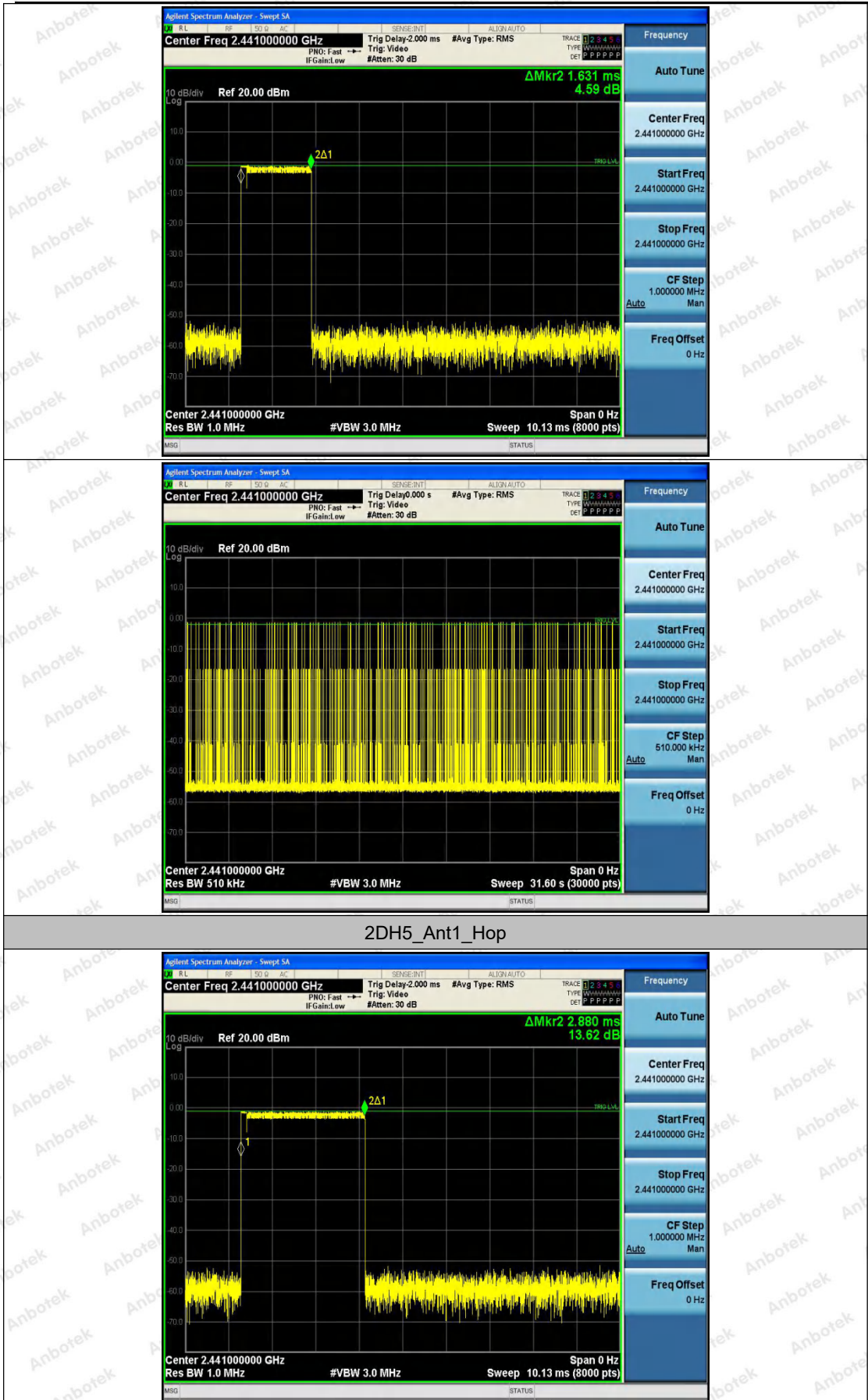
2DH3\_Ant1\_Hop

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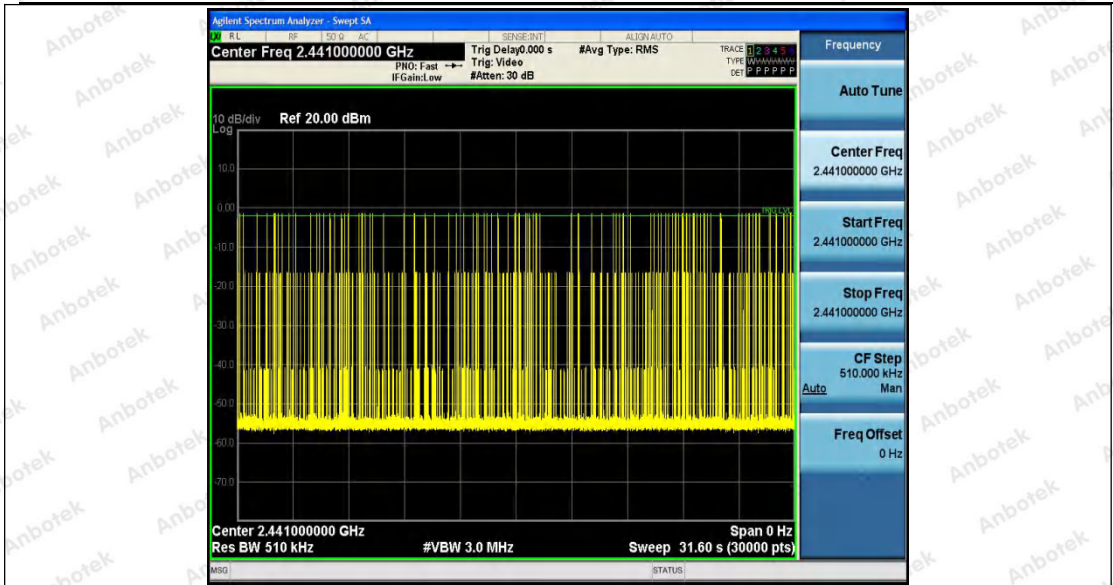
2DH5\_Ant1\_Hop

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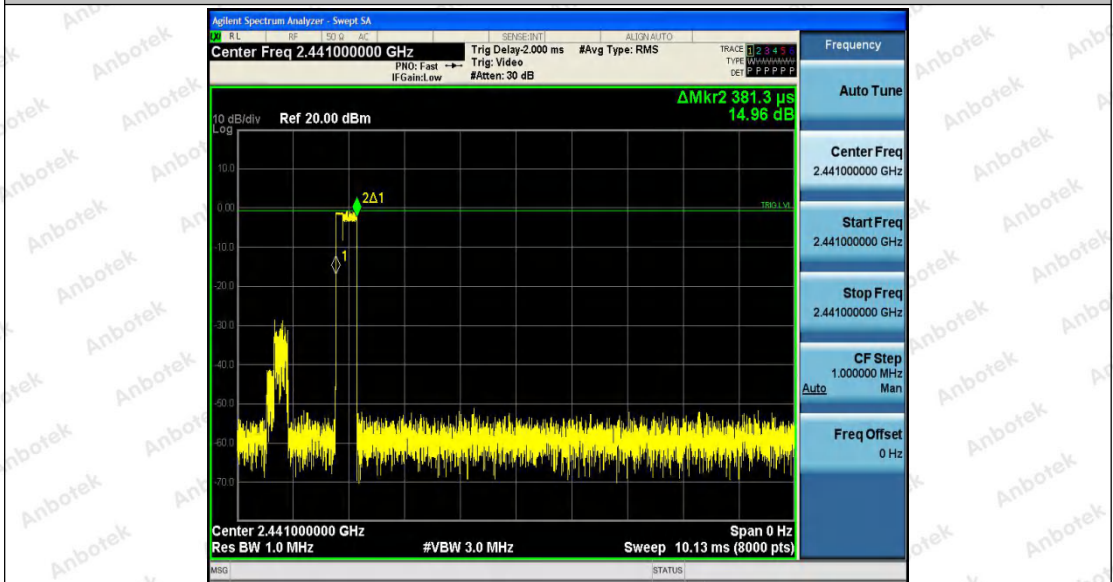
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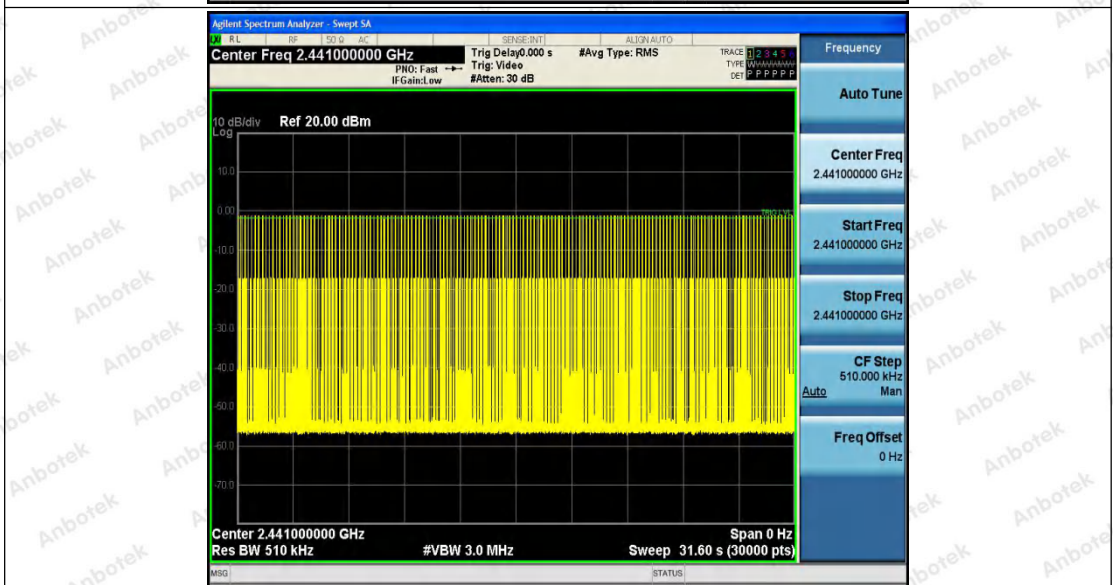
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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop

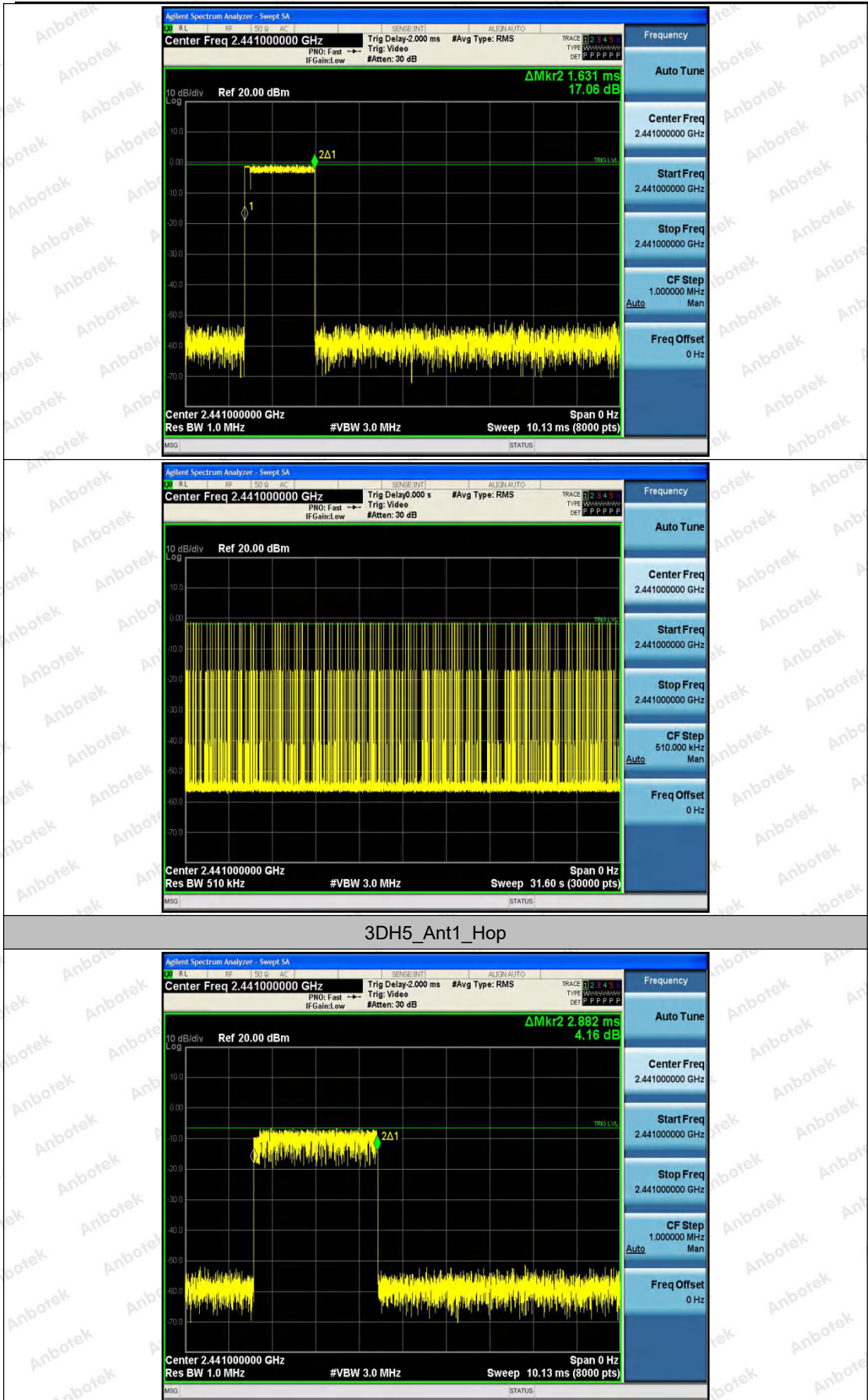


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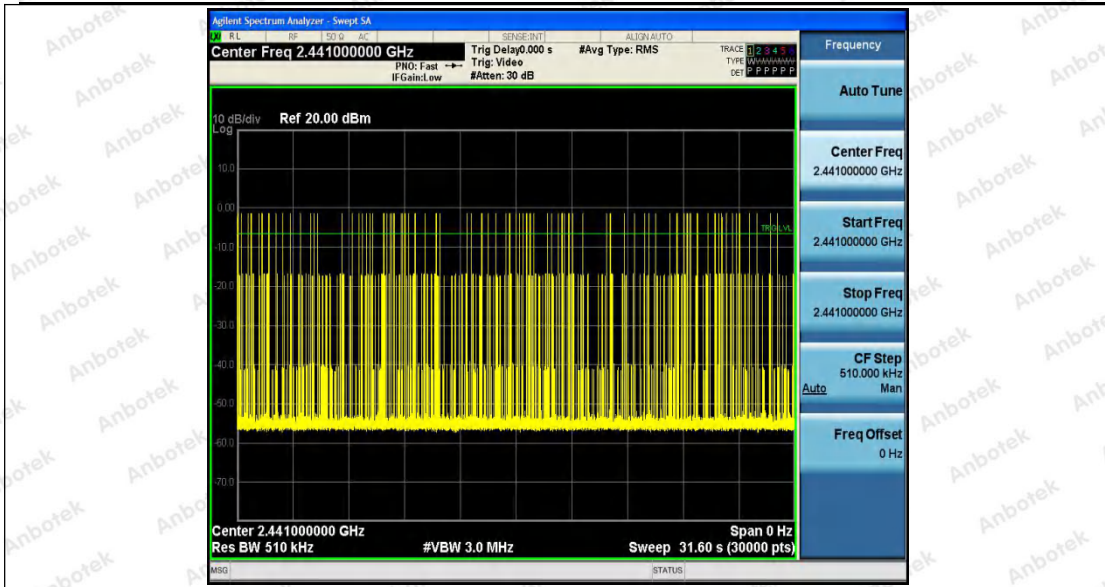
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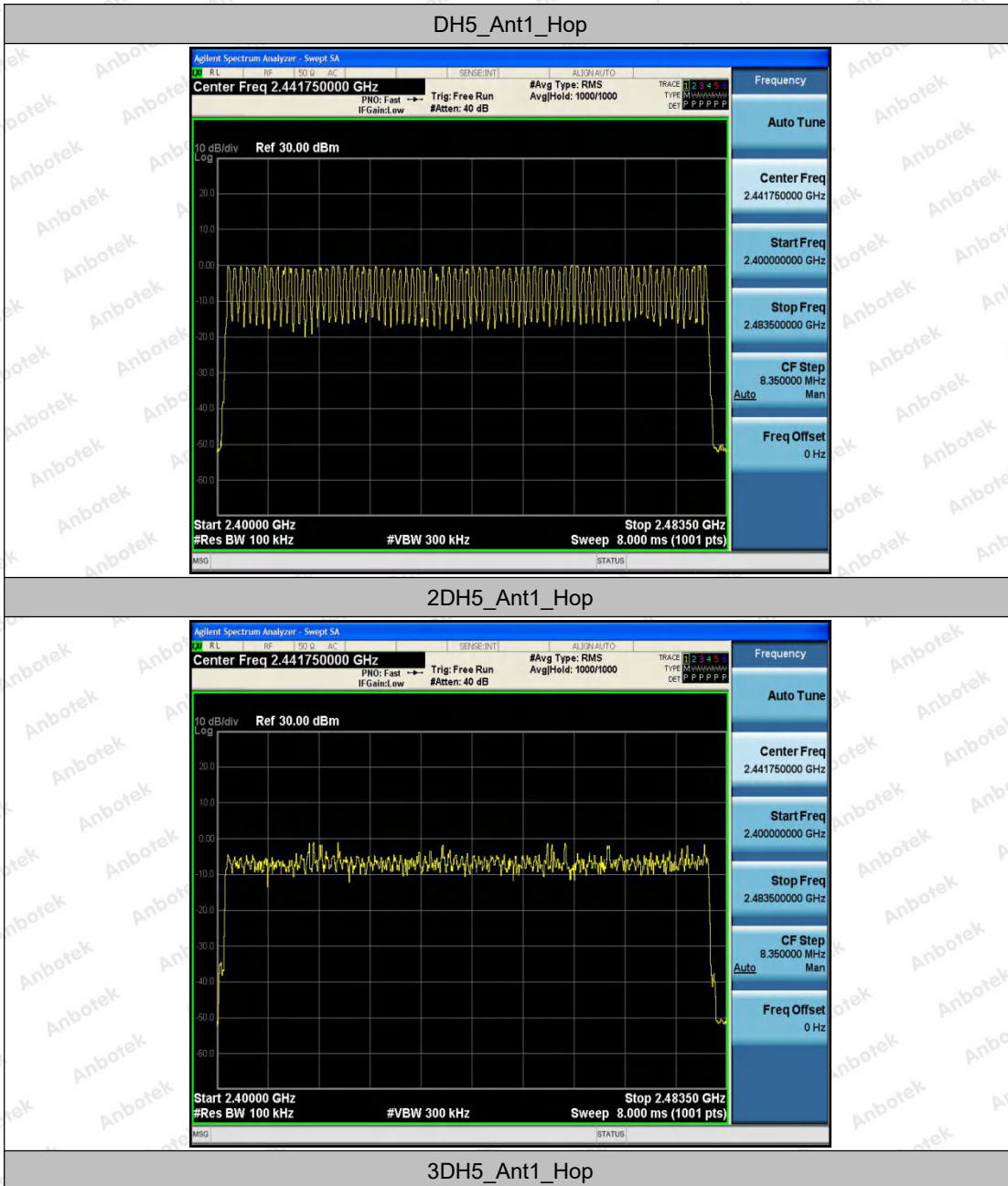
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## Appendix F: Number of hopping channels

### Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

## Test Graphs



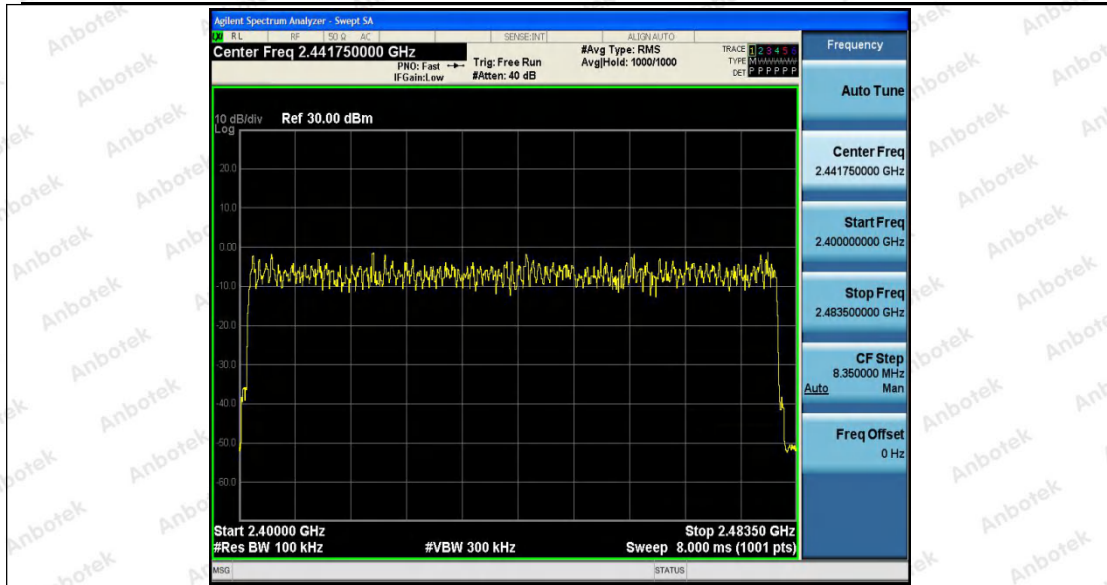
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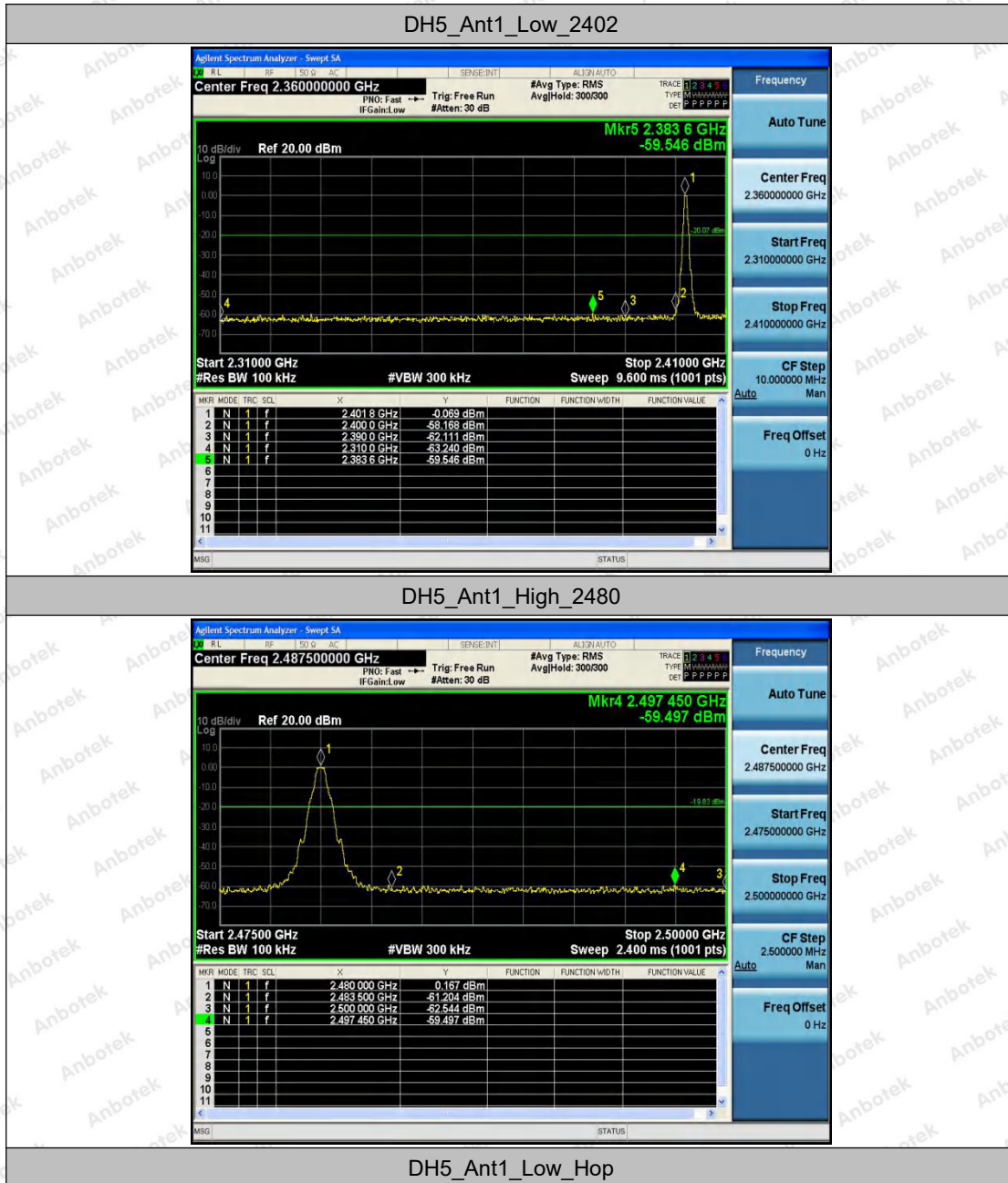
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## Appendix G: Band edge measurements

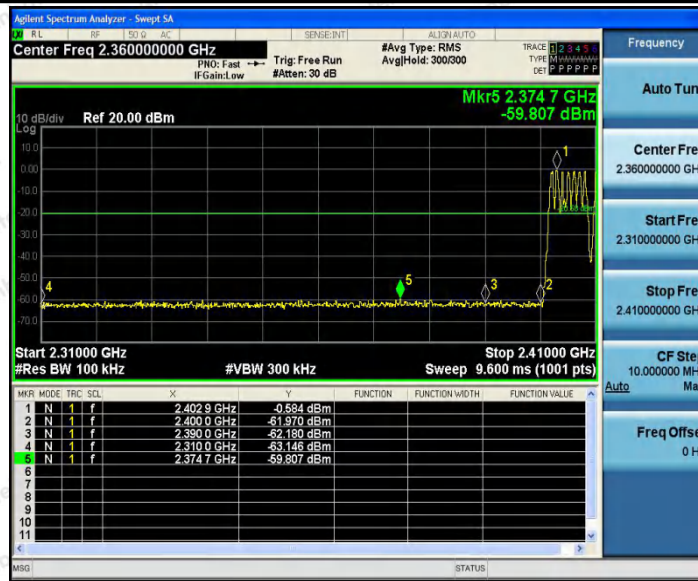
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.07	-59.55	≤-20.07	PASS
		High	2480	0.17	-59.5	≤-19.83	PASS
		Low	Hop	-0.58	-59.81	≤-20.58	PASS
		High	Hop	-0.23	-62.3	≤-20.23	PASS
2DH5	Ant1	Low	2402	-1.49	-56.21	≤-21.49	PASS
		High	2480	-1.04	-59.2	≤-21.04	PASS
		Low	Hop	-4.04	-59.7	≤-24.04	PASS
		High	Hop	-3.85	-62.64	≤-23.85	PASS
3DH5	Ant1	Low	2402	-1.25	-56.68	≤-21.25	PASS
		High	2480	-0.85	-58.46	≤-20.85	PASS
		Low	Hop	-4.67	-60.09	≤-24.67	PASS
		High	Hop	-4.19	-60.64	≤-24.19	PASS

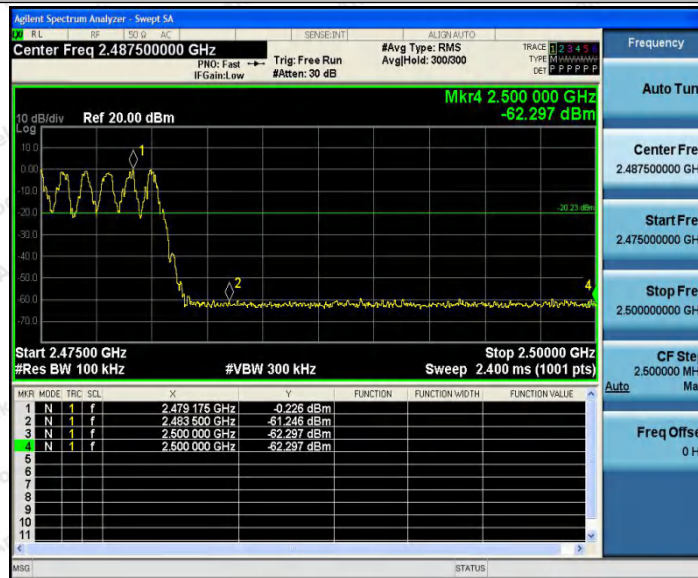
## Test Graphs



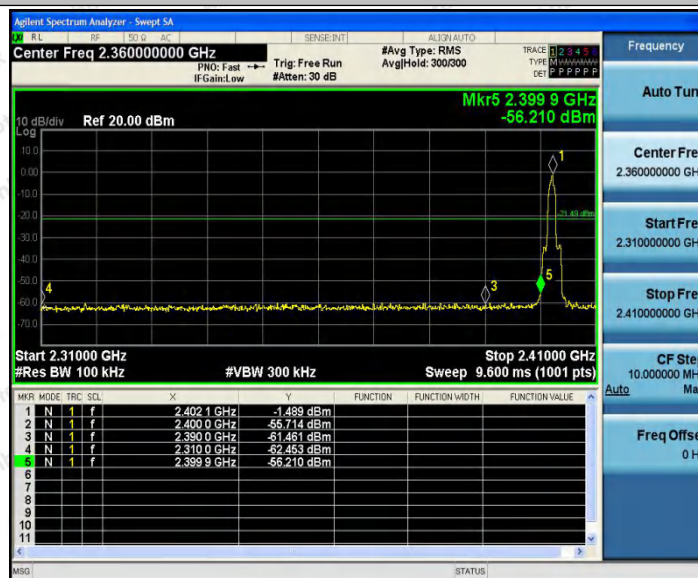




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402

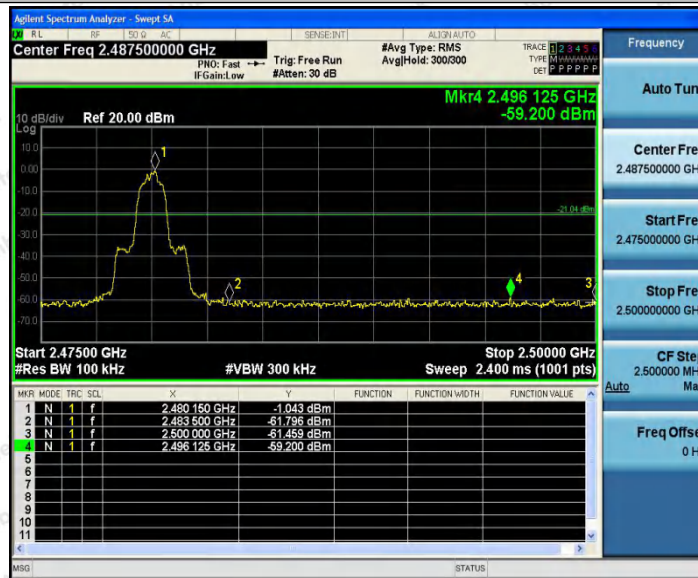


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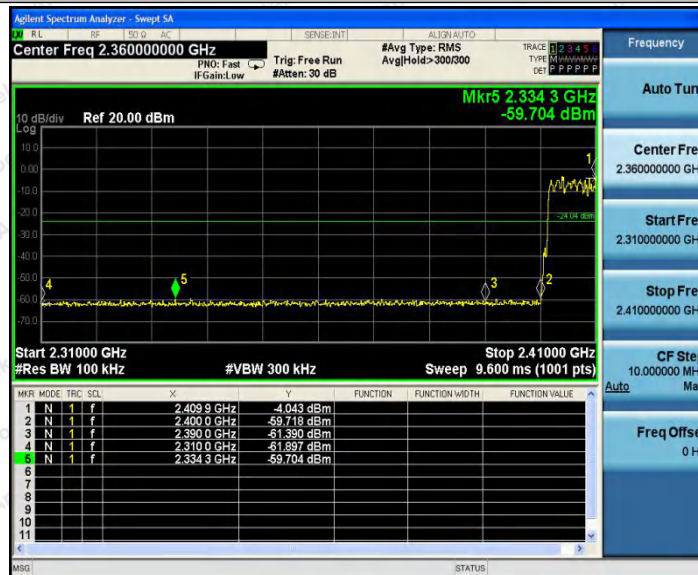
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



### 2DH5\_Ant1\_High\_Hop

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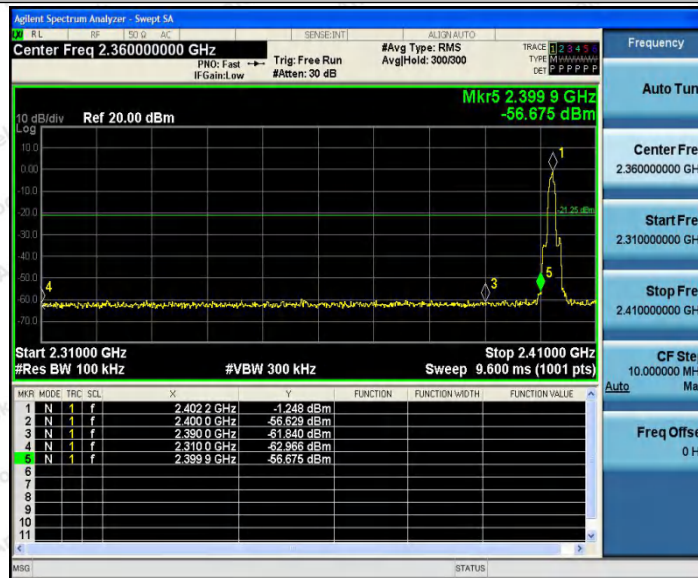
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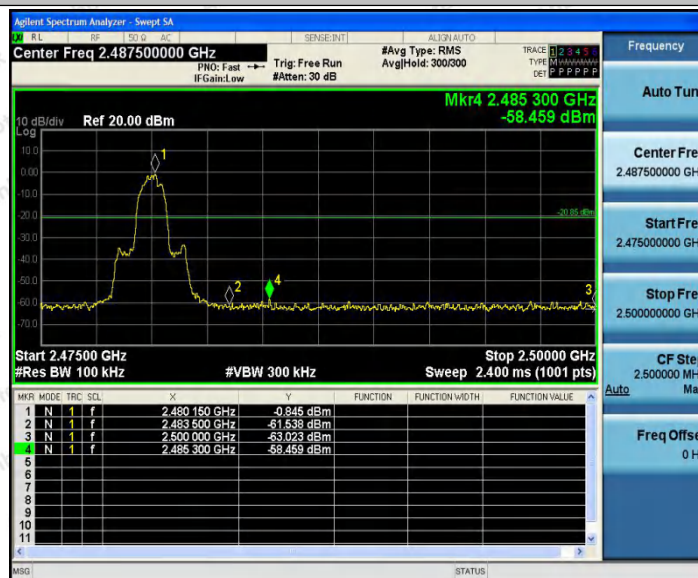




3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



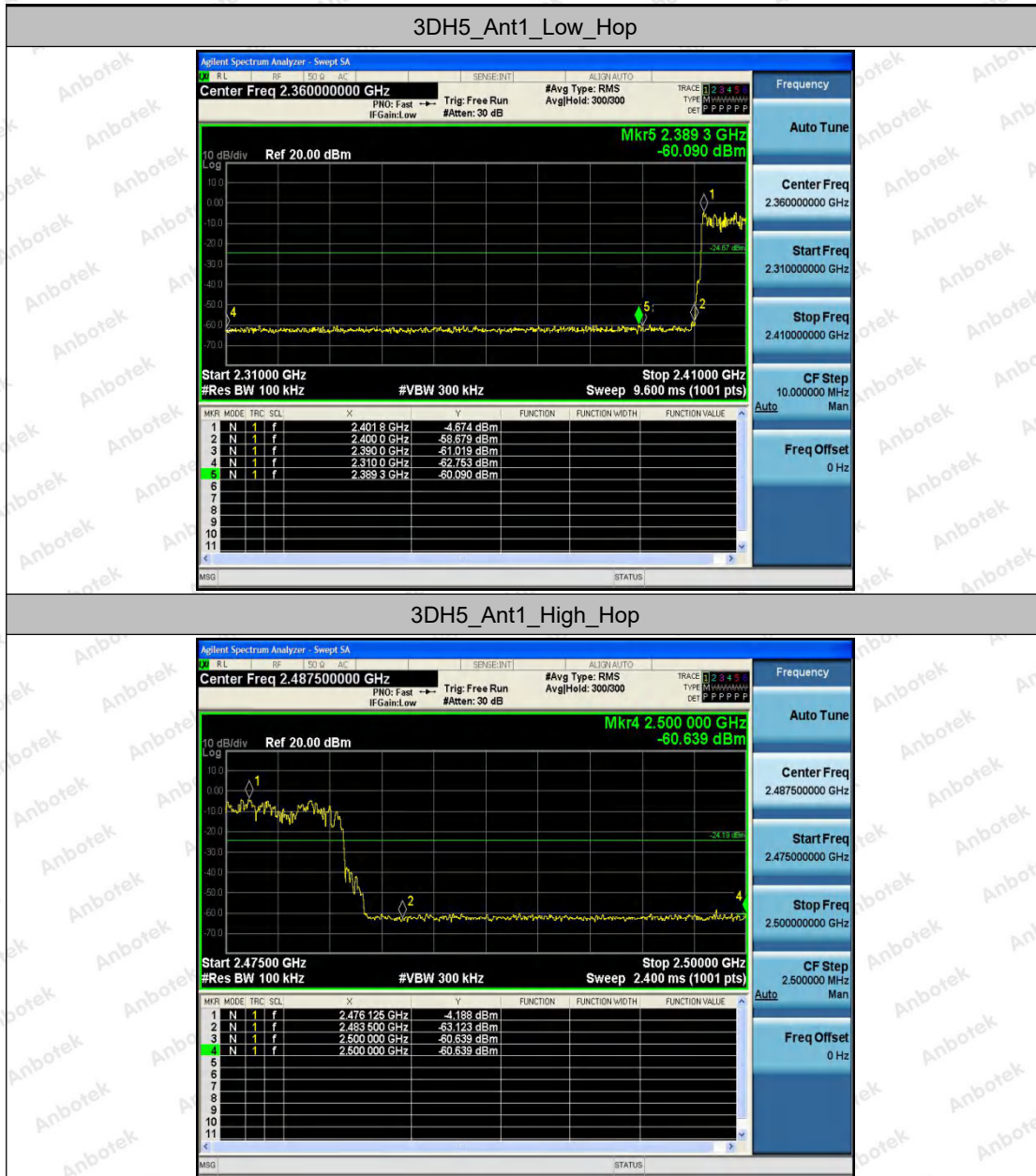
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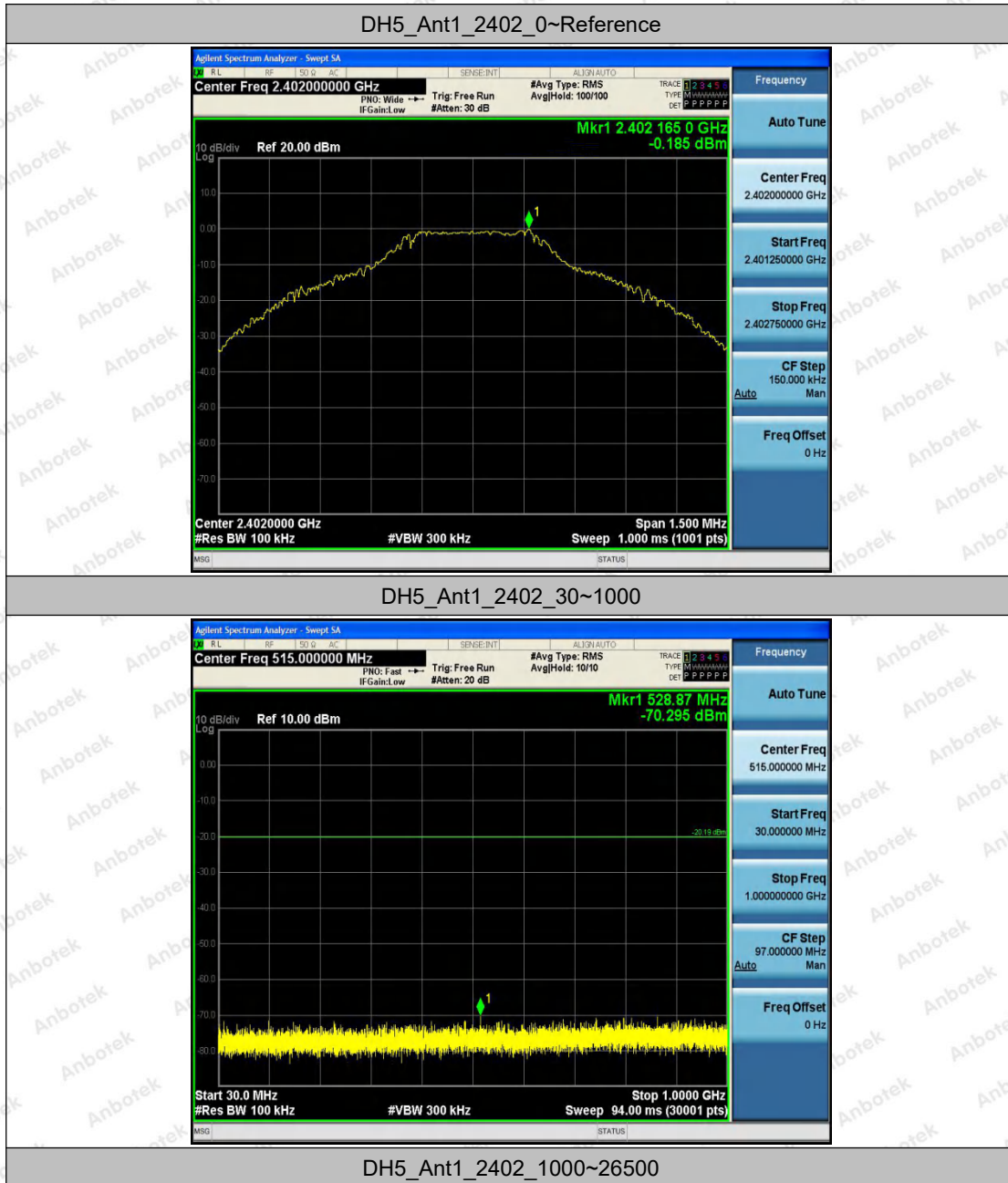
## Appendix H: Conducted Spurious Emission

### Test Result

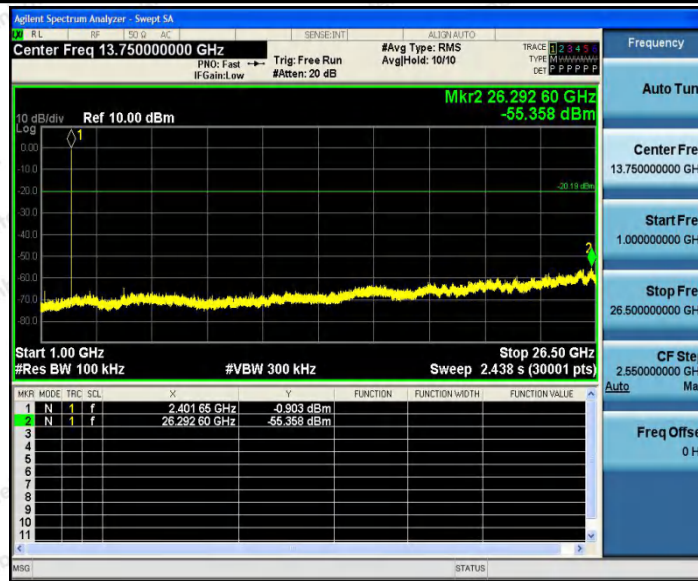
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-70.3	≤-20.19	PASS
			1000~26500	-0.19	-55.36	≤-20.19	PASS
		2441	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-70.06	≤-20.42	PASS
			1000~26500	-0.42	-55.58	≤-20.42	PASS
		2480	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-71.1	≤-19.94	PASS
			1000~26500	0.06	-55.29	≤-19.94	PASS
2DH5	Ant1	2402	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-70.45	≤-21.59	PASS
			1000~26500	-1.59	-54.96	≤-21.59	PASS
		2441	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-60.81	≤-21.35	PASS
			1000~26500	-1.35	-55.26	≤-21.35	PASS
		2480	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-69.54	≤-21.13	PASS
			1000~26500	-1.13	-55.75	≤-21.13	PASS
3DH5	Ant1	2402	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-70.39	≤-21.5	PASS
			1000~26500	-1.50	-55.96	≤-21.5	PASS
		2441	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-69.88	≤-21.42	PASS
			1000~26500	-1.42	-55.83	≤-21.42	PASS
		2480	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-69.73	≤-21.67	PASS
			1000~26500	-1.67	-55.83	≤-21.67	PASS



## Test Graphs



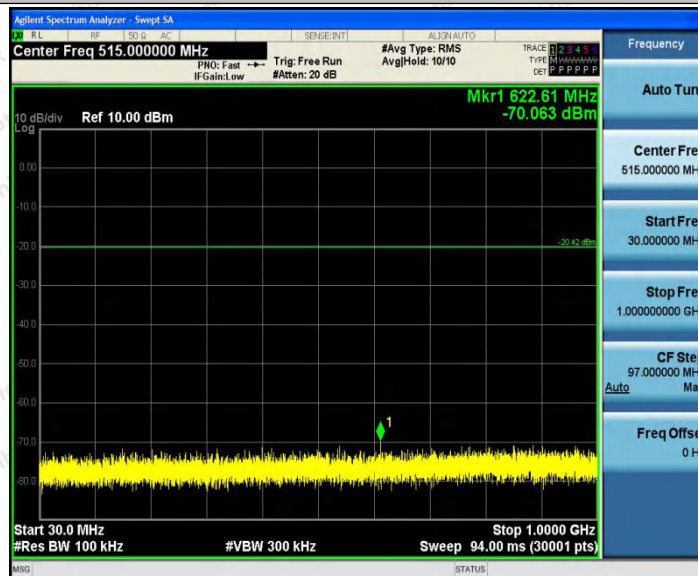




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000

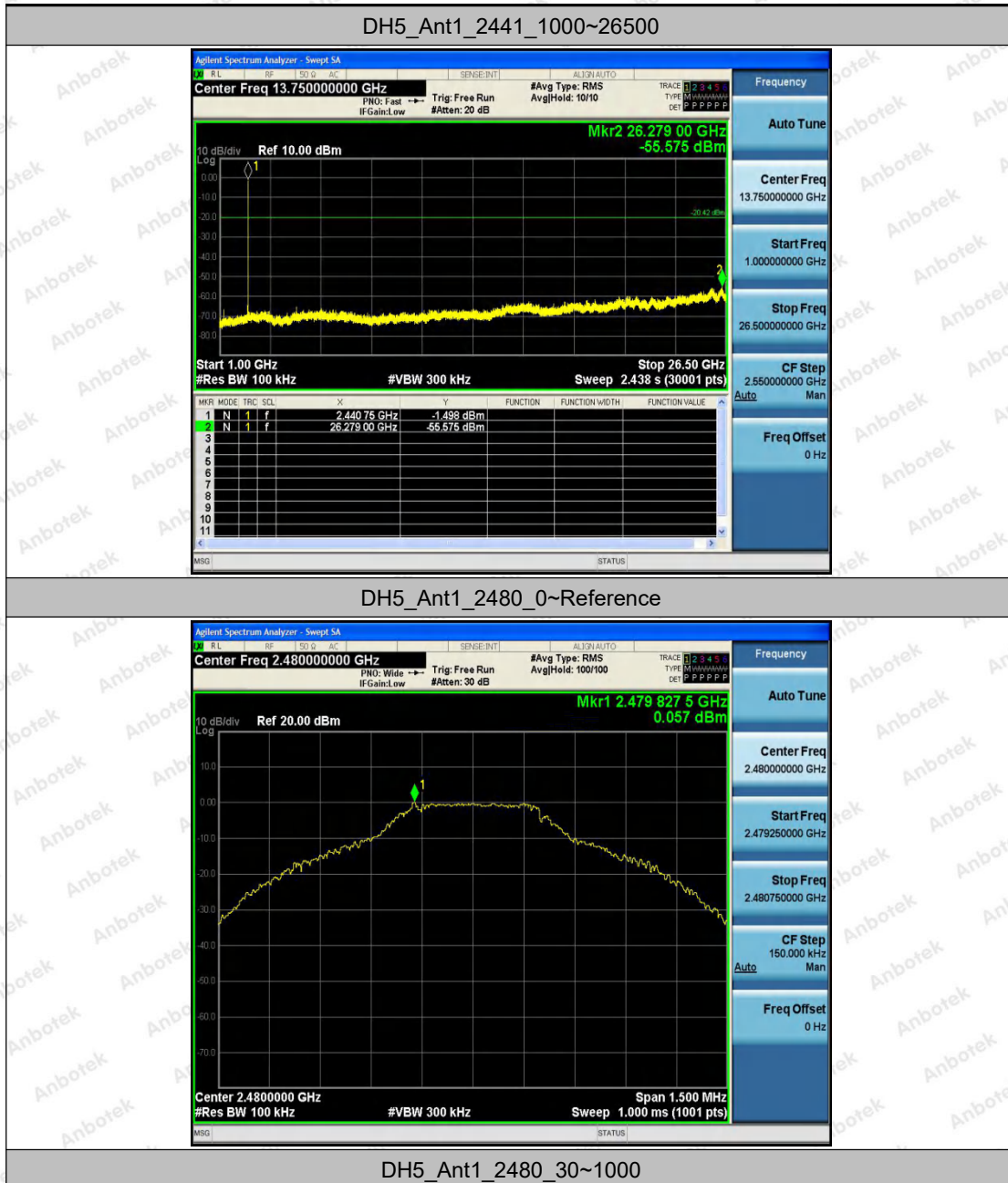


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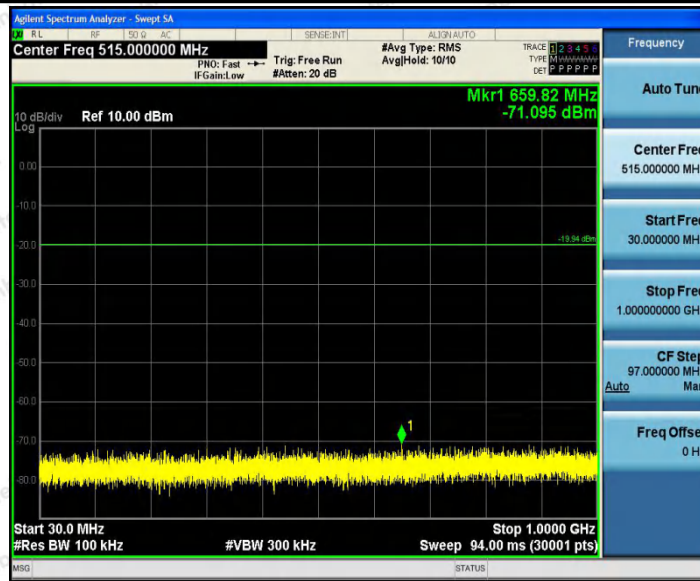
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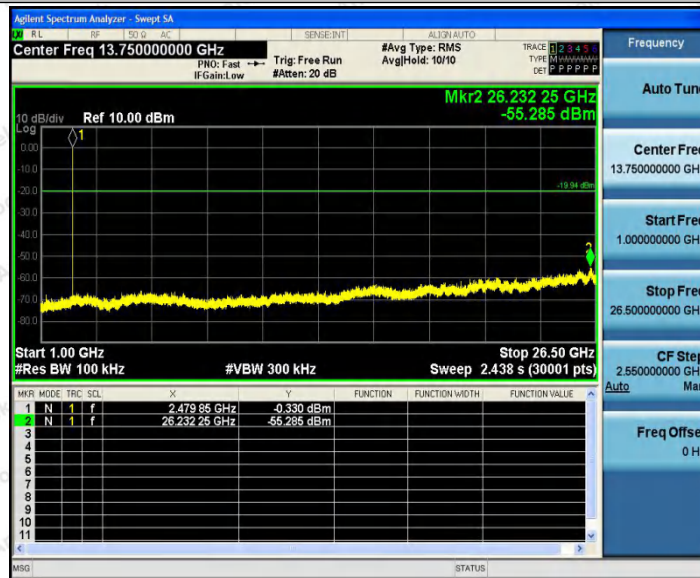
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference

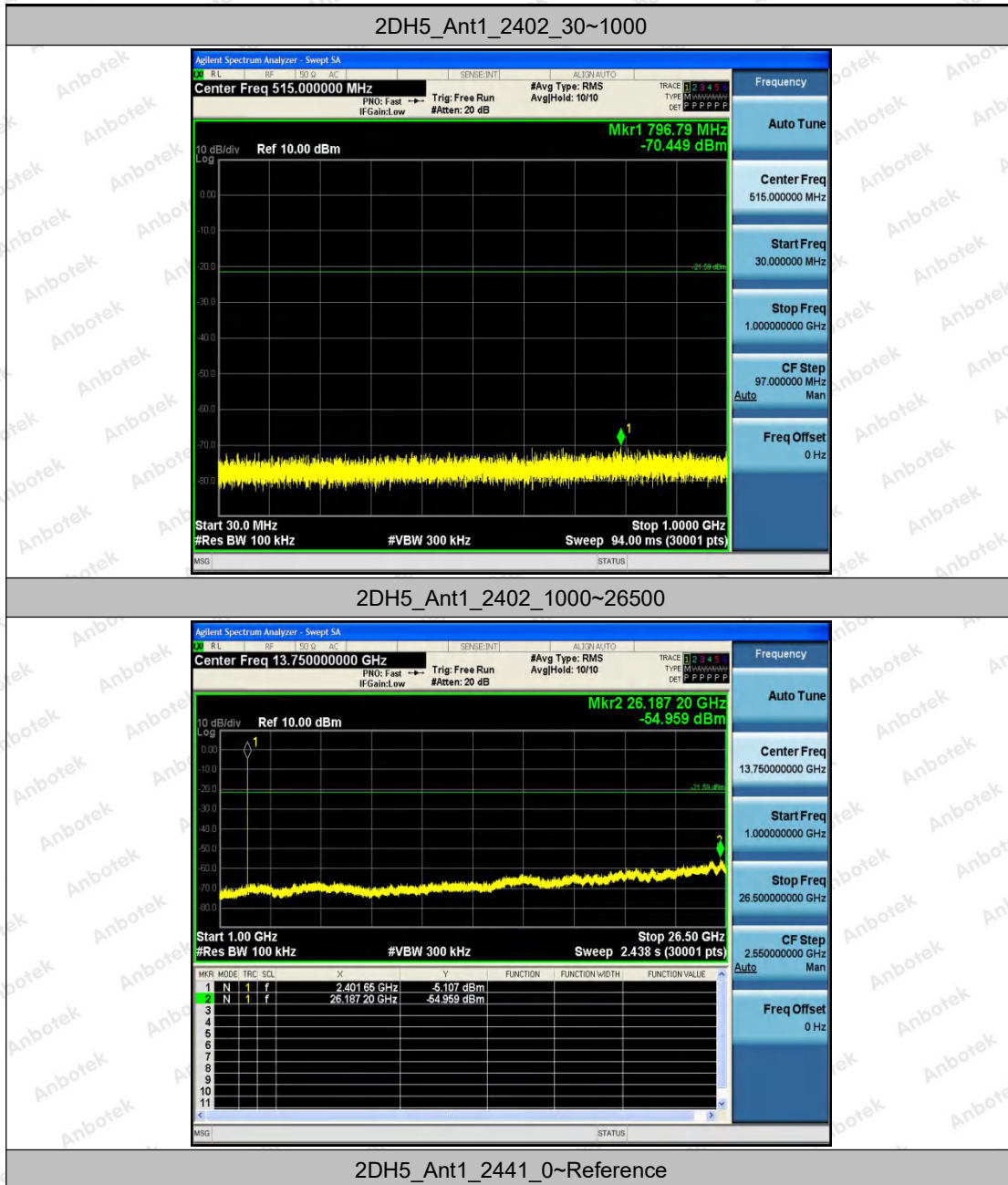


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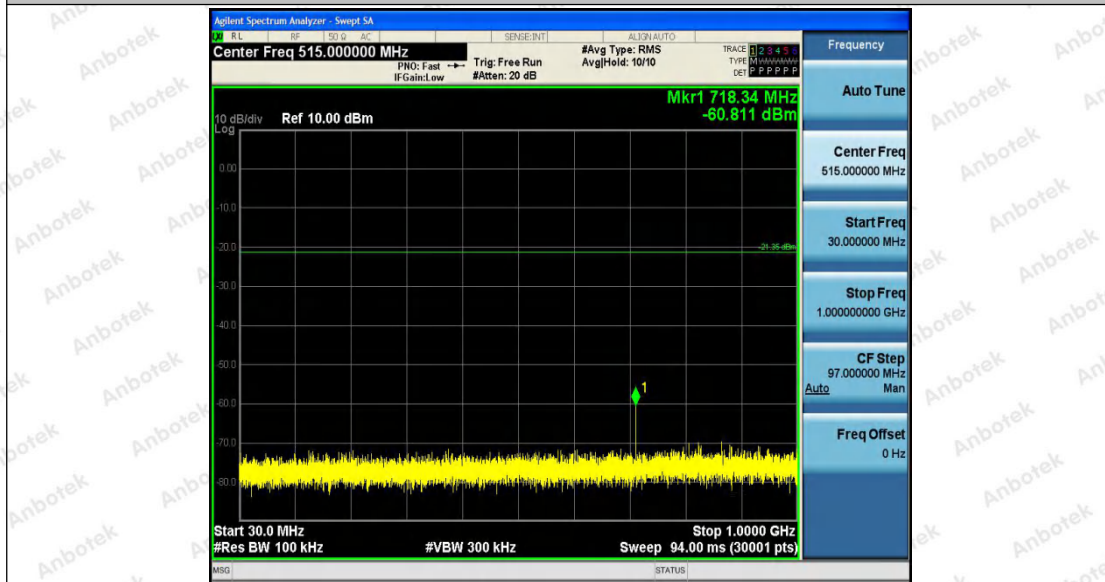
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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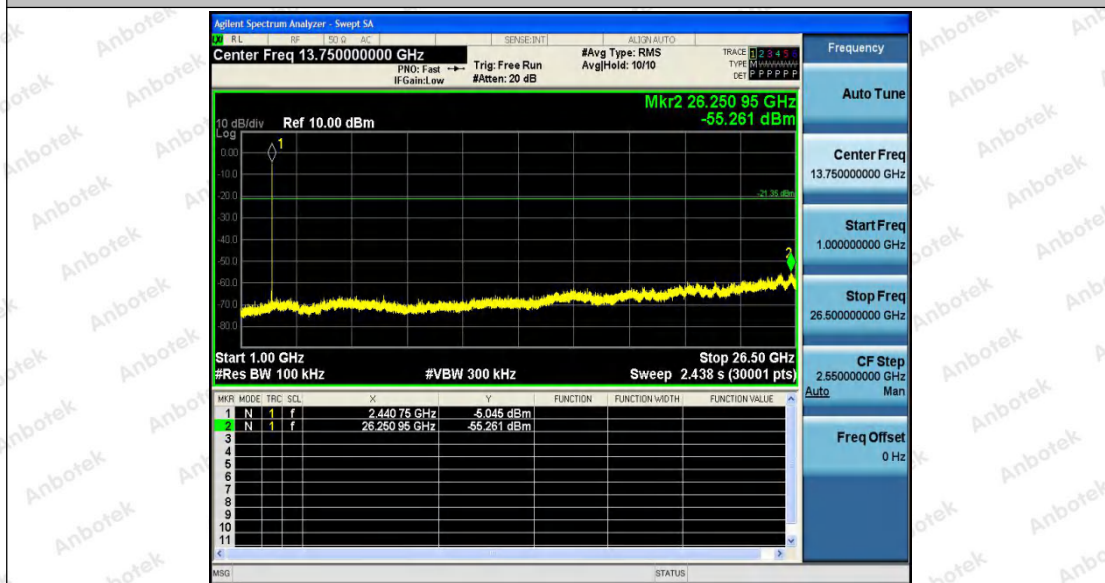




2DH5\_Ant1\_2441\_30~1000



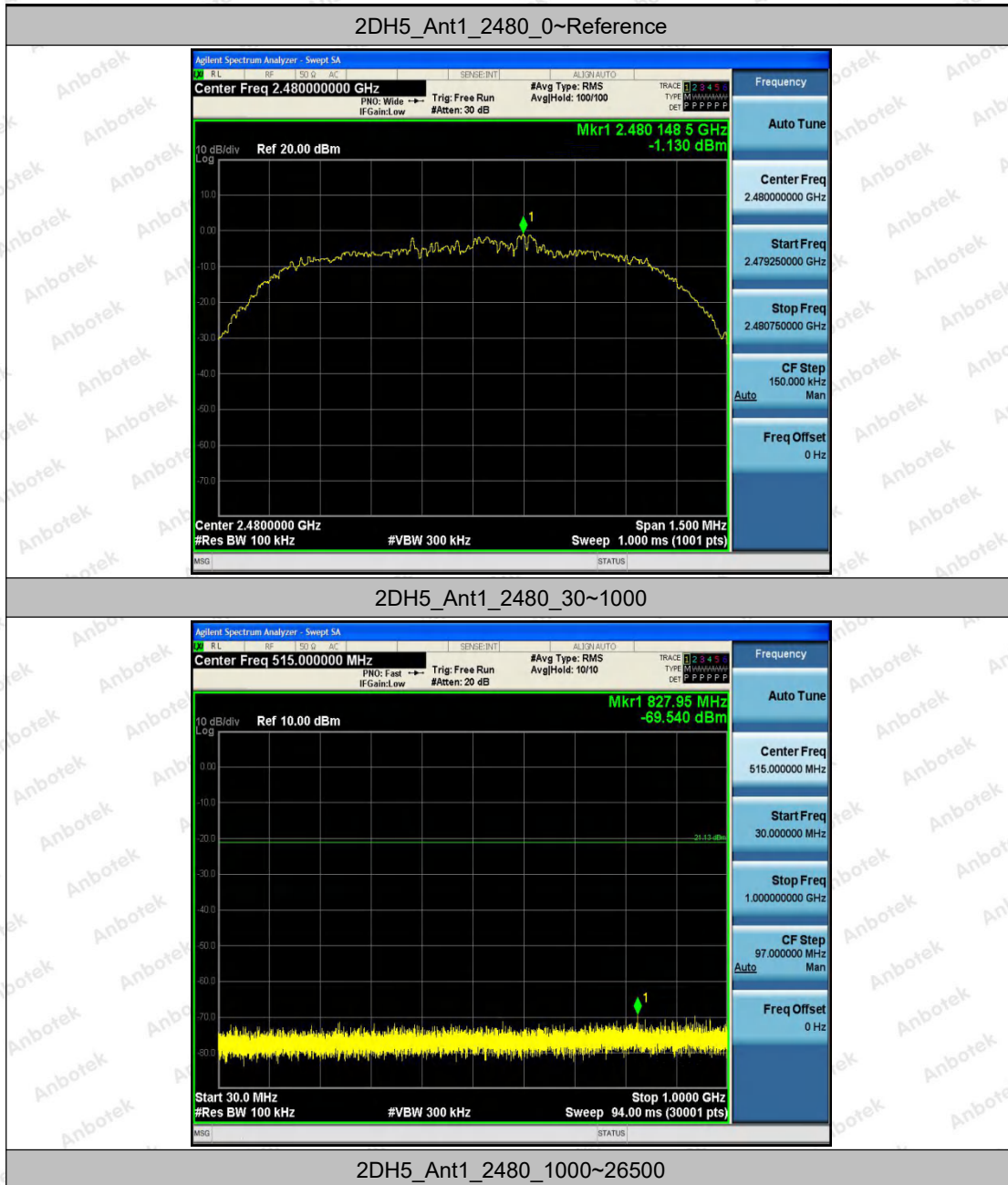
2DH5\_Ant1\_2441\_1000~26500



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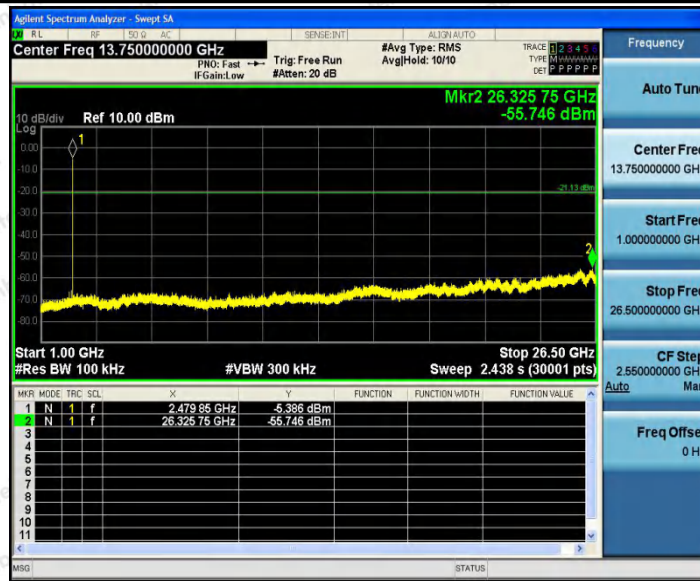


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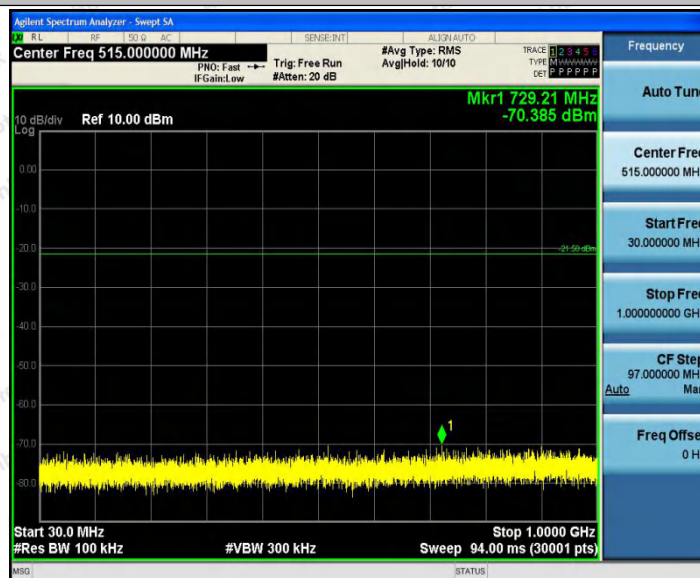




3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

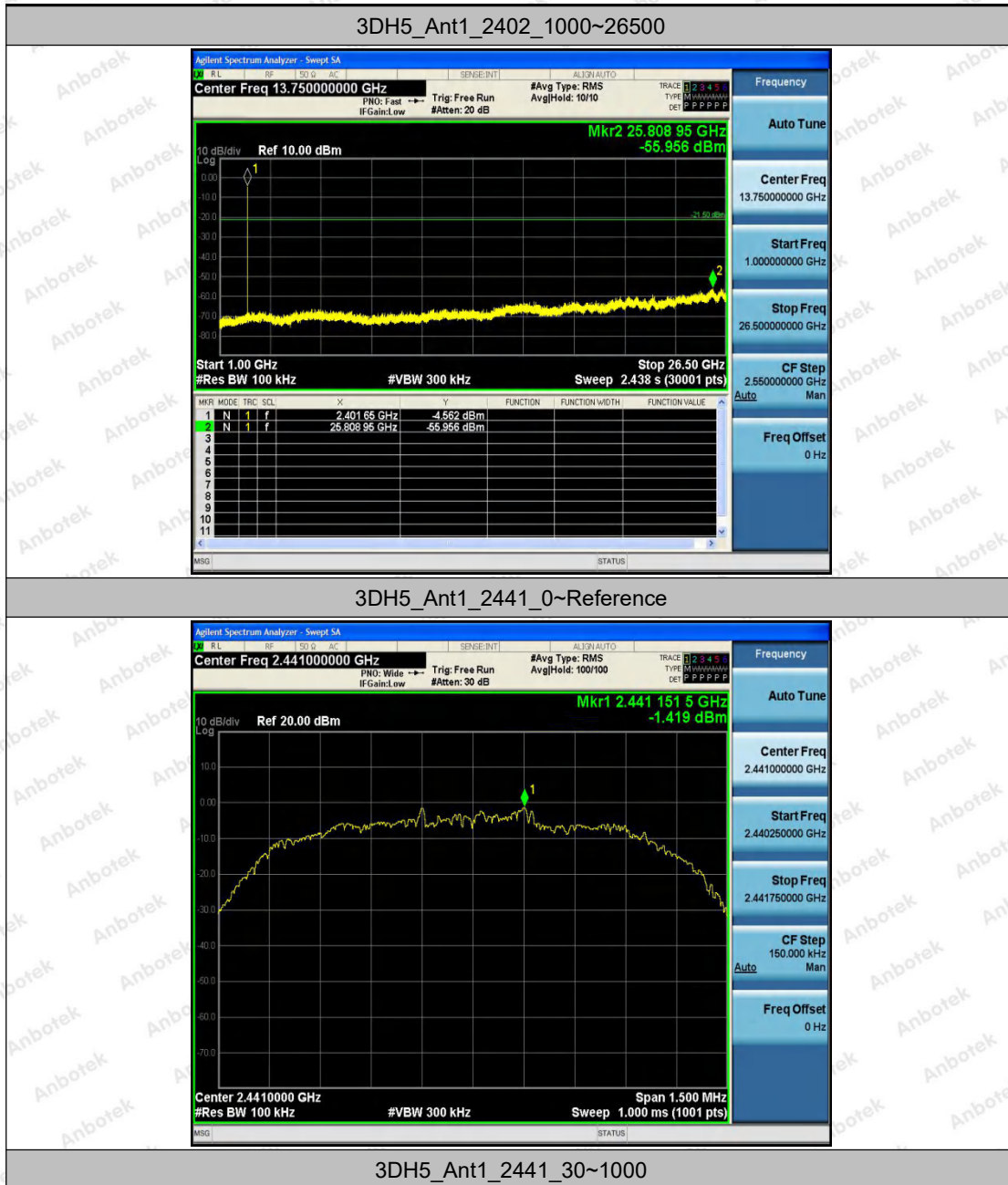


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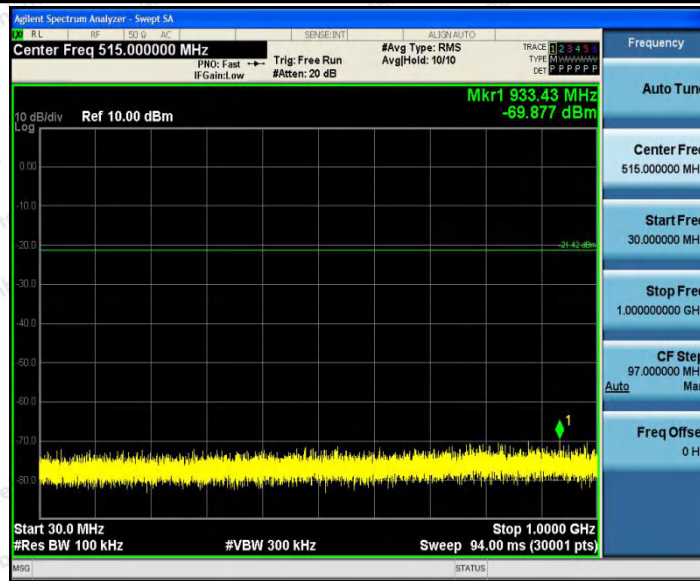


**Shenzhen Anbotek Compliance Laboratory Limited**

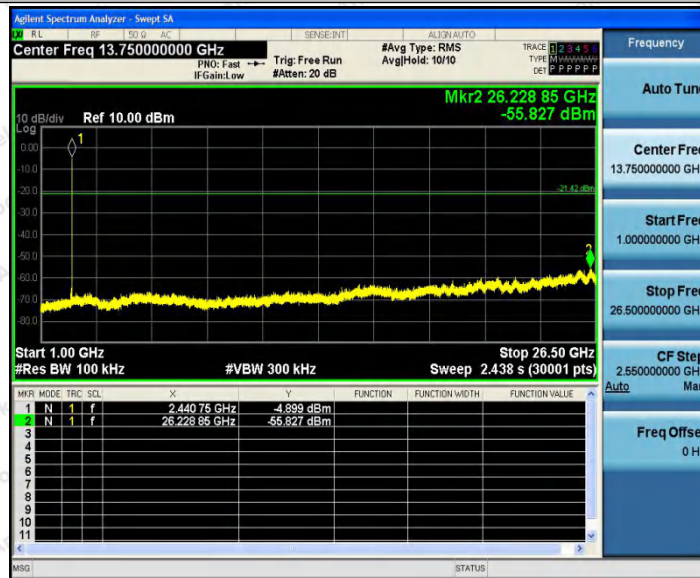
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference

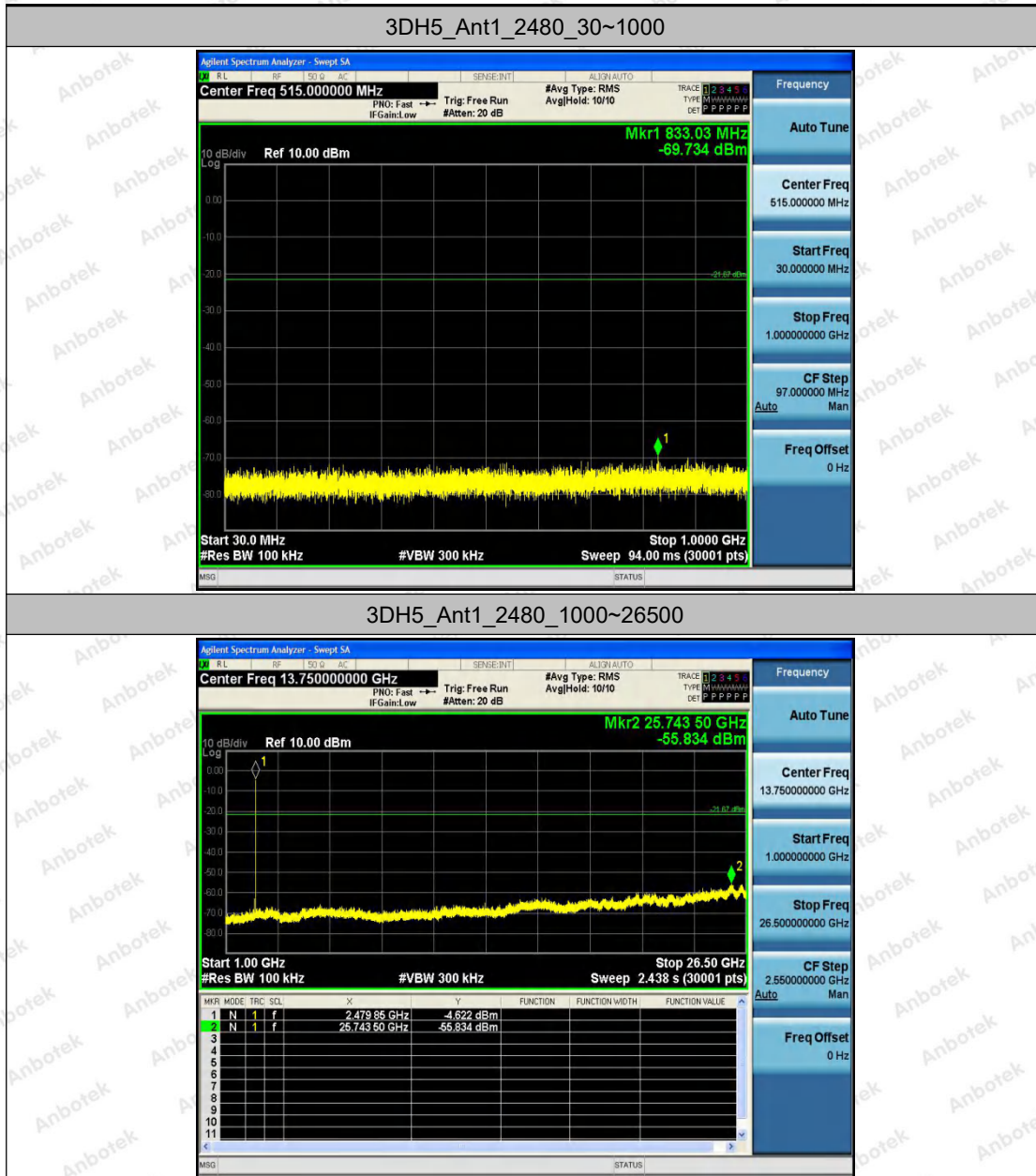


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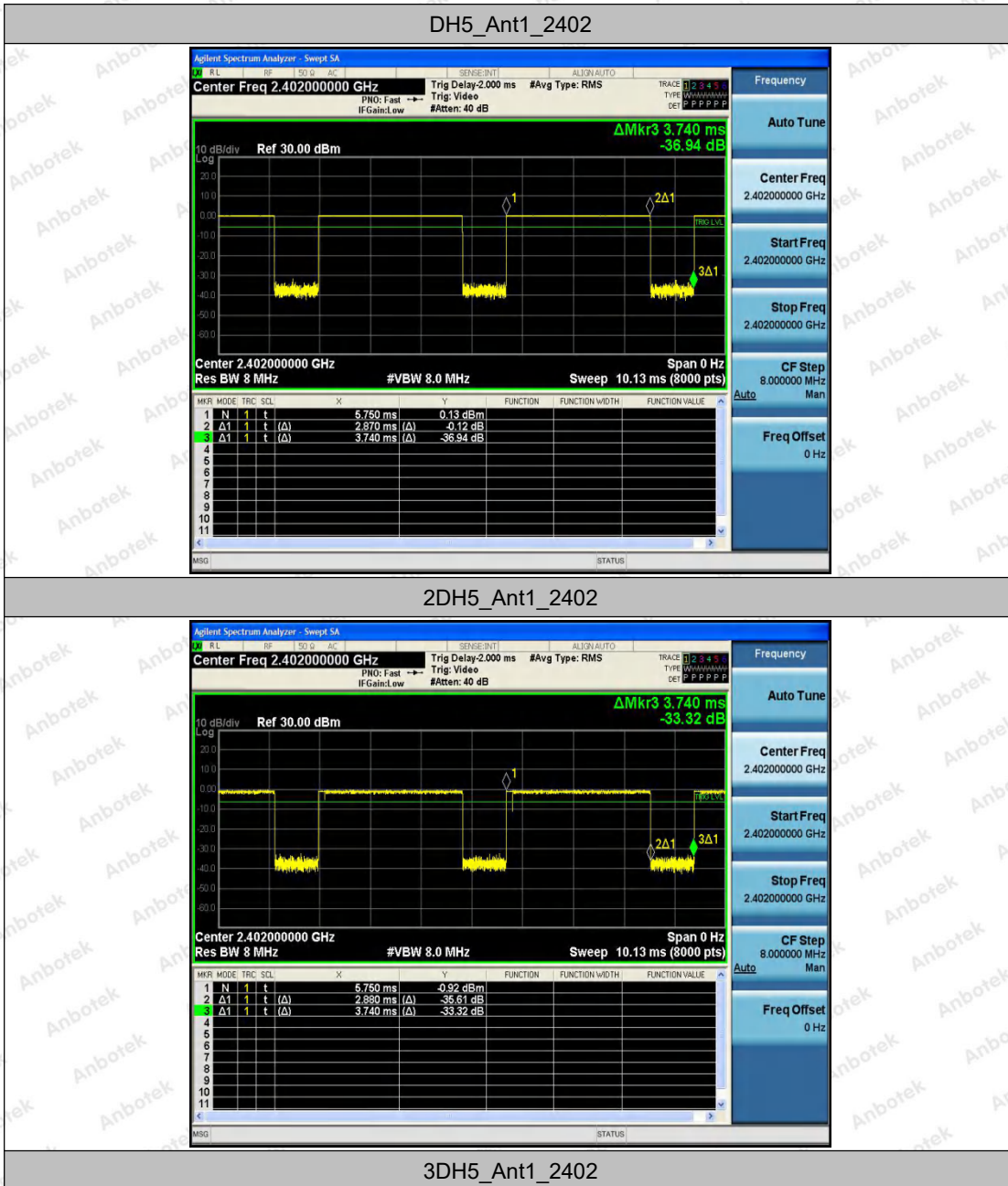


## Appendix I: Duty Cycle

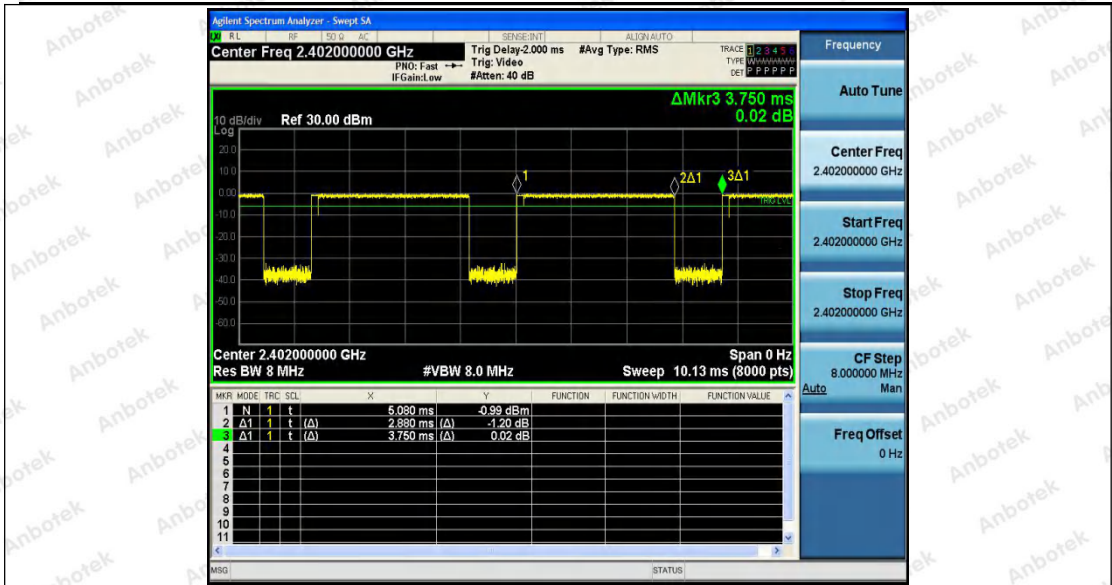
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

## Test Graphs







---End---