

## Appendix Test Data

Report No.:	18220WC10174401	Test Date:	2021.8.4
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	0.861	2401.547	2402.408	---	PASS
		2441	0.888	2440.547	2441.435	---	PASS
		2480	0.915	2479.547	2480.462	---	PASS
2DH5	Ant1	2402	1.308	2401.346	2402.654	---	PASS
		2441	1.200	2440.403	2441.603	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.242	2401.367	2402.609	---	PASS
		2441	1.236	2440.373	2441.609	---	PASS
		2480	1.251	2479.364	2480.615	---	PASS

## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480



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	0.85807	2401.573	2402.431	---	PASS
		2441	0.85654	2440.575	2441.431	---	PASS
		2480	0.86368	2479.571	2480.435	---	PASS
2DH5	Ant1	2402	1.1609	2401.420	2402.581	---	PASS
		2441	1.1643	2440.418	2441.582	---	PASS
		2480	1.1595	2479.417	2480.577	---	PASS
3DH5	Ant1	2402	1.1667	2401.417	2402.583	---	PASS
		2441	1.1777	2440.408	2441.585	---	PASS
		2480	1.1592	2479.420	2480.579	---	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

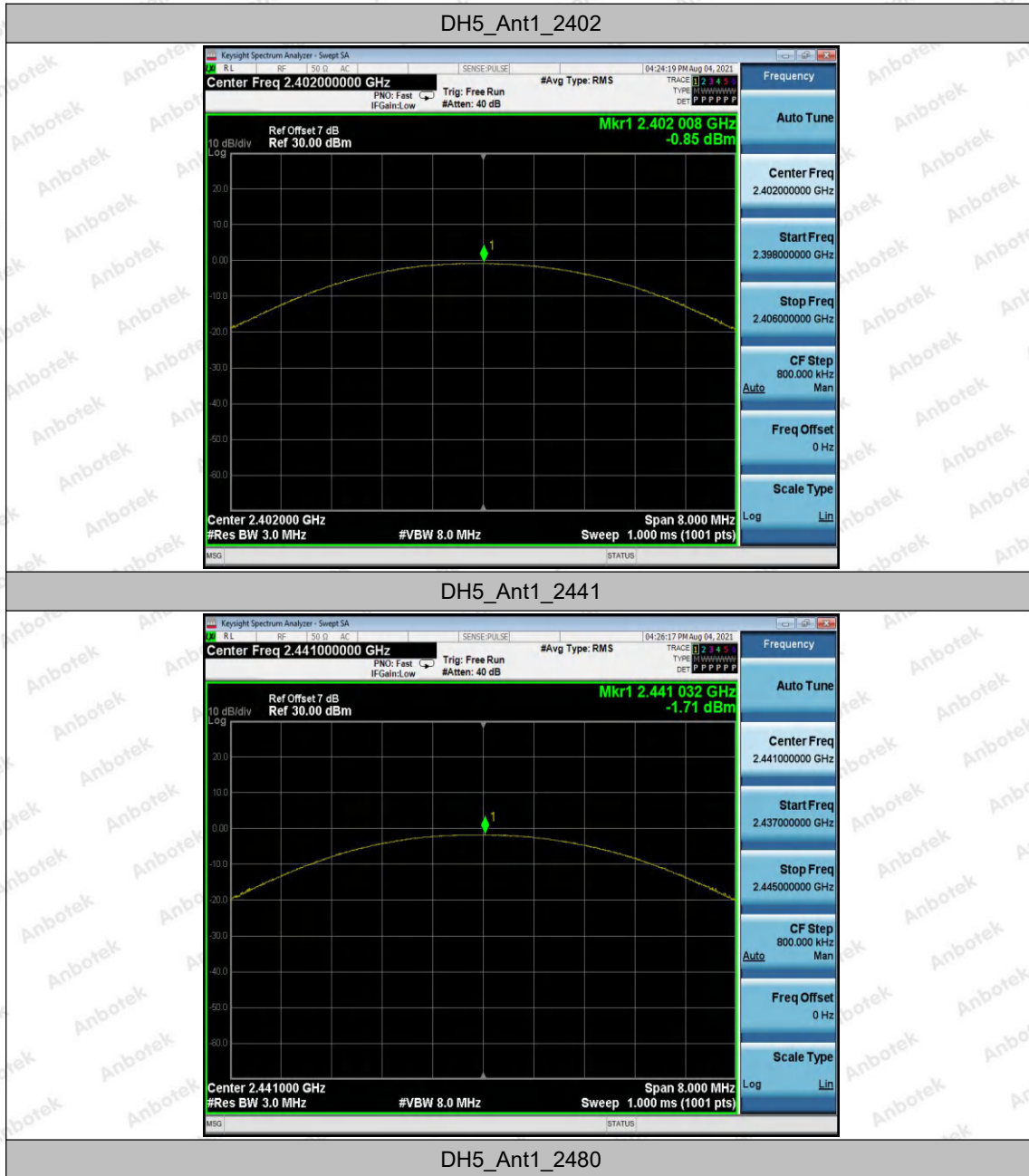


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.85	<=20.97	PASS
		2441	-1.71	<=20.97	PASS
		2480	-1.41	<=20.97	PASS
2DH5	Ant1	2402	-0.92	<=20.97	PASS
		2441	-2.07	<=20.97	PASS
		2480	-1.45	<=20.97	PASS
3DH5	Ant1	2402	-0.73	<=20.97	PASS
		2441	-1.63	<=20.97	PASS
		2480	-1.17	<=20.97	PASS

## Test Graphs



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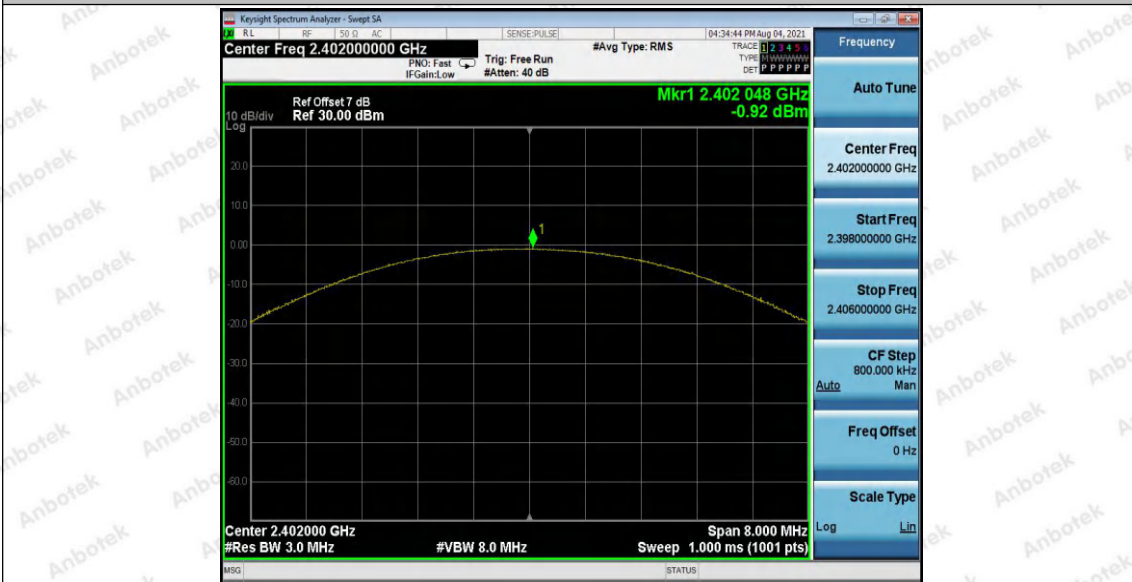
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

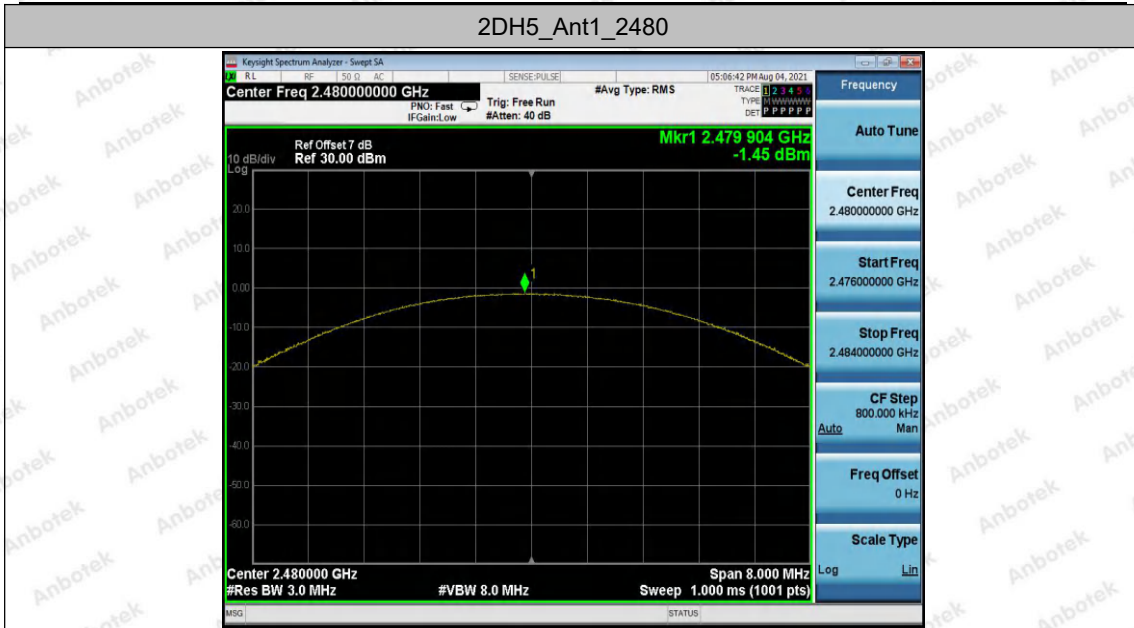


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**3DH5\_Ant1\_2441**

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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.866	$\geq 0.610$	PASS
2DH5	Ant1	Hop	1.082	$\geq 0.878$	PASS
3DH5	Ant1	Hop	1.026	$\geq 0.834$	PASS



## Test Graphs





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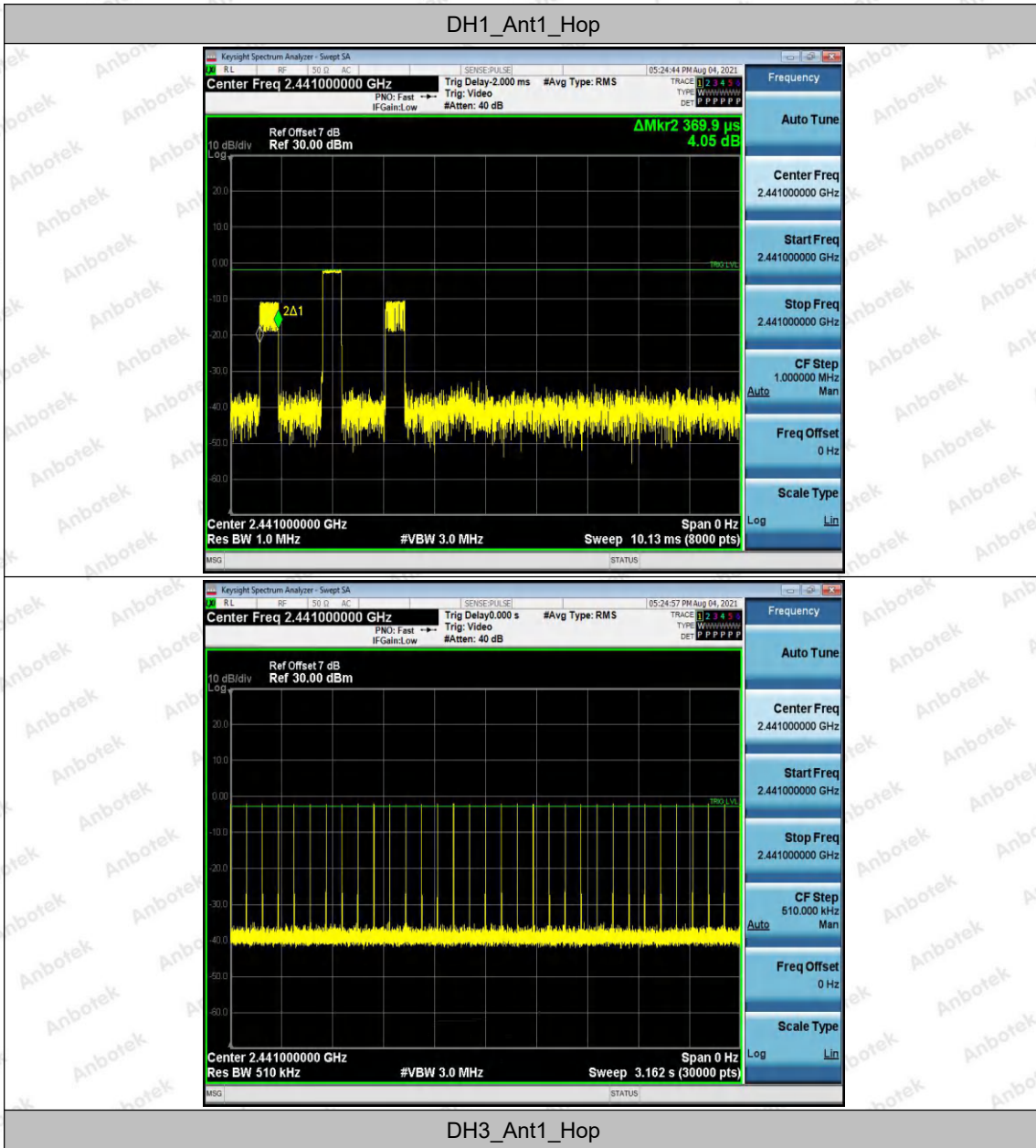
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## Appendix E: Time of occupancy

### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	<=0.4	PASS
DH3	Ant1	Hop	1.62	170	0.275	<=0.4	PASS
DH5	Ant1	Hop	2.87	110	0.315	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	<=0.4	PASS
2DH3	Ant1	Hop	1.63	170	0.277	<=0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	<=0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.277	<=0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS

## Test Graphs

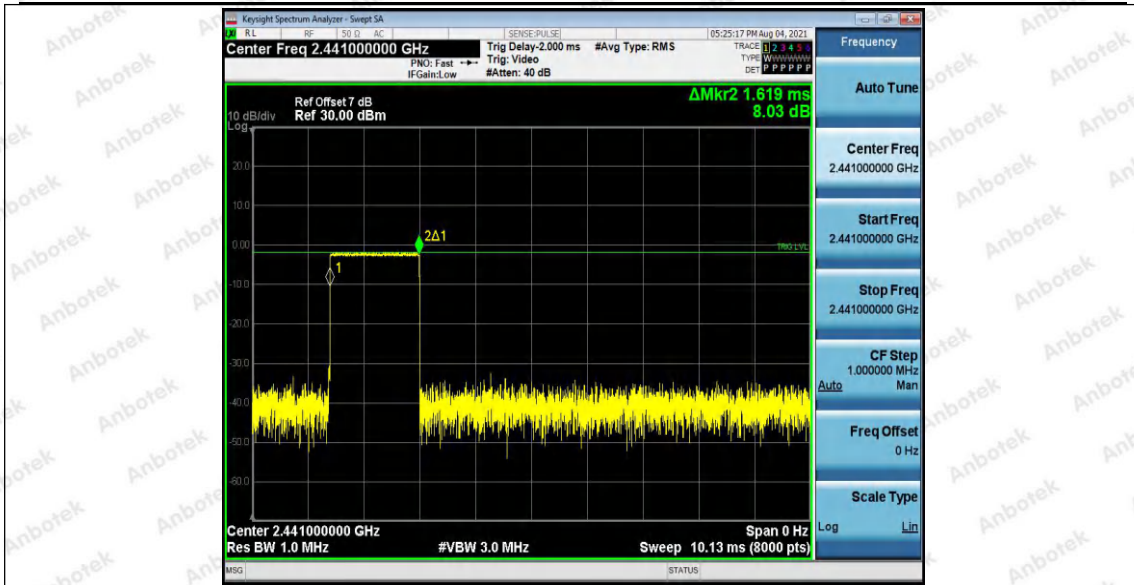


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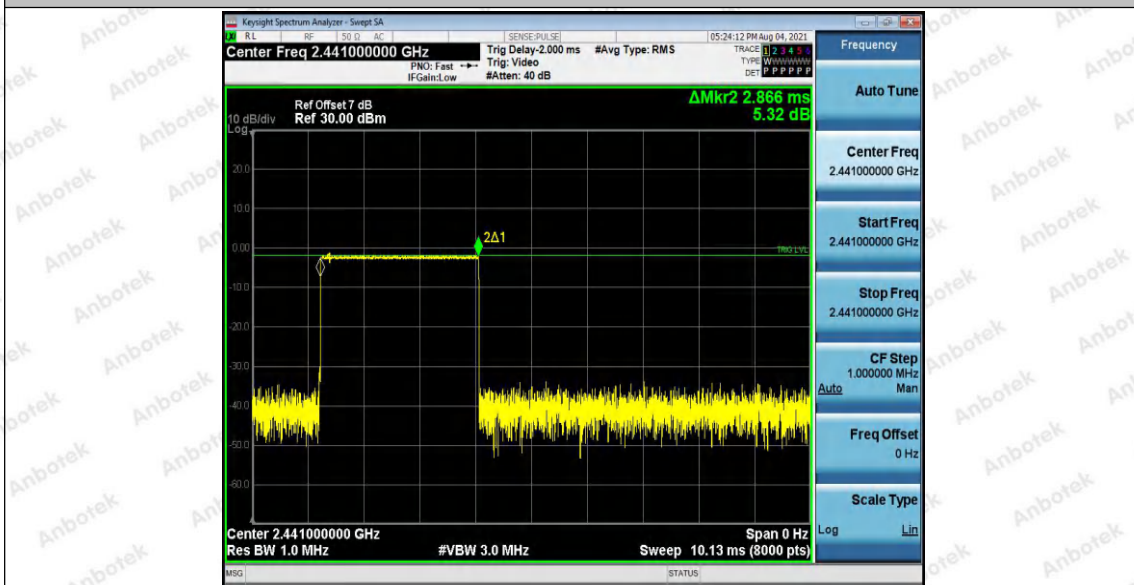
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

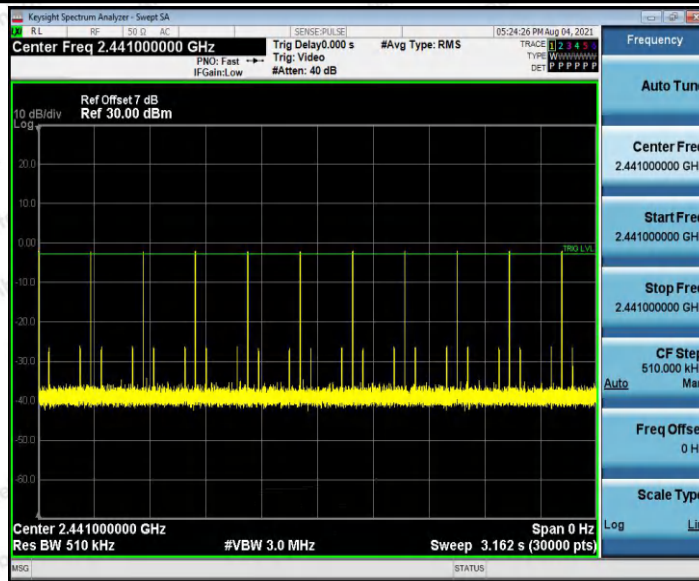
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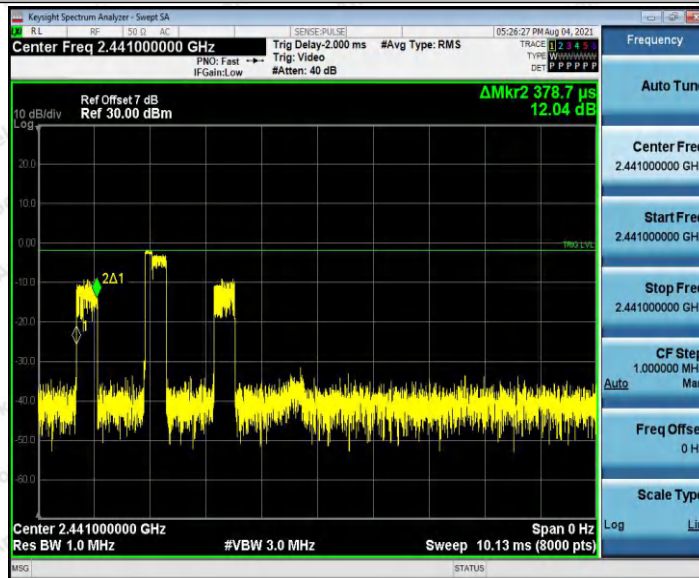


DH5\_Ant1\_Hop

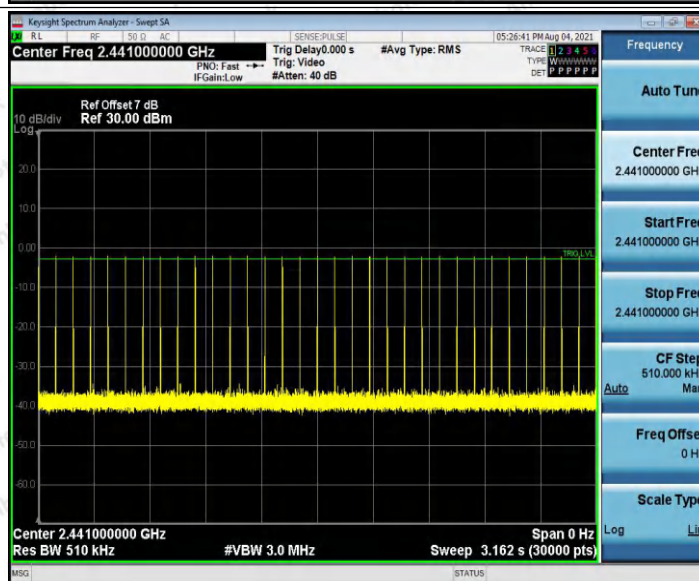




2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

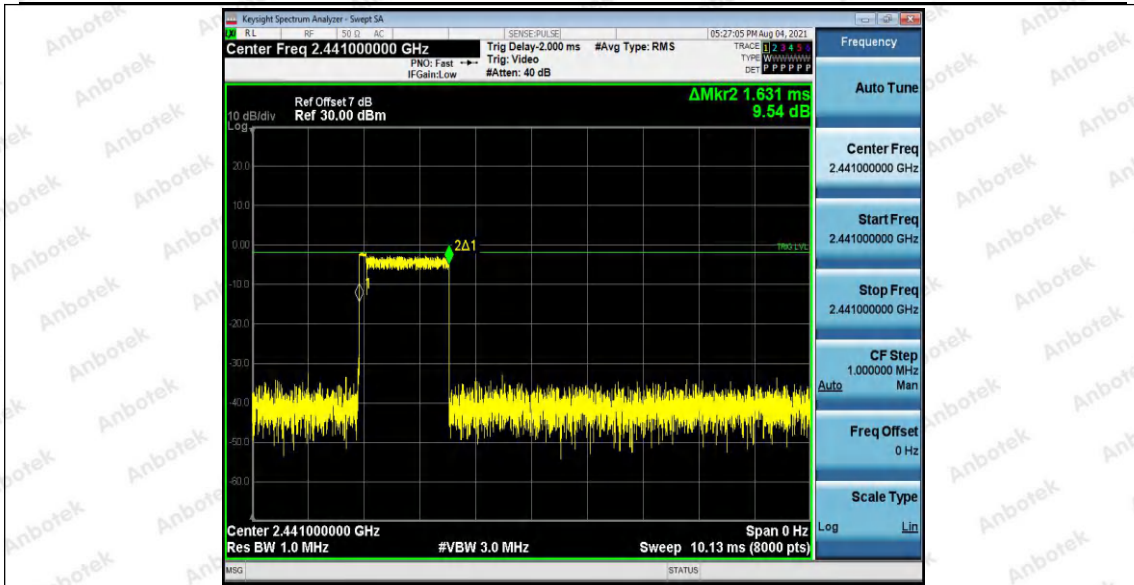


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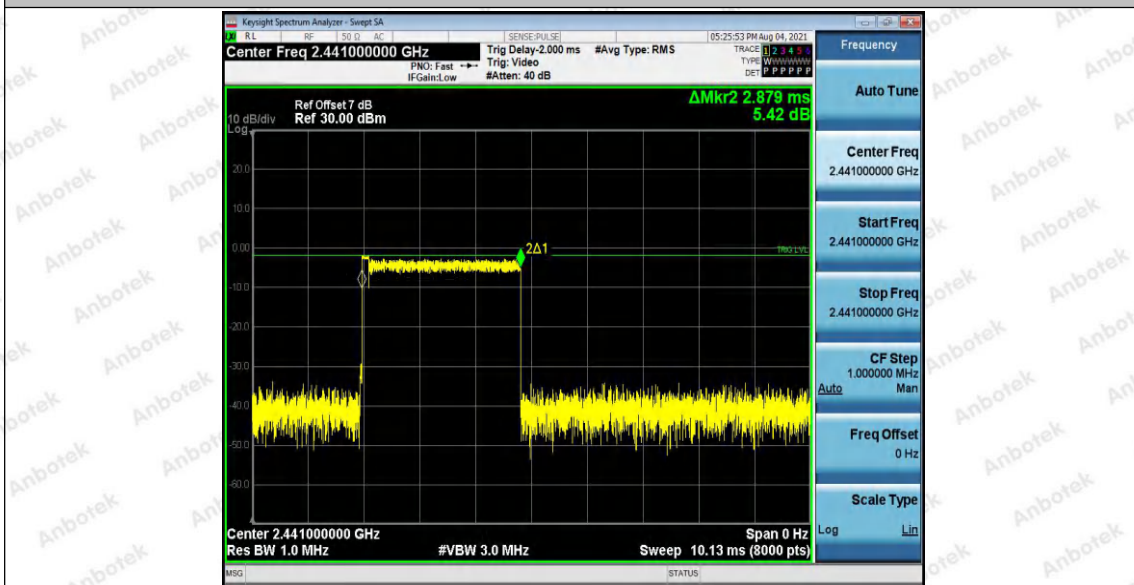
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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2DH5\_Ant1\_Hop



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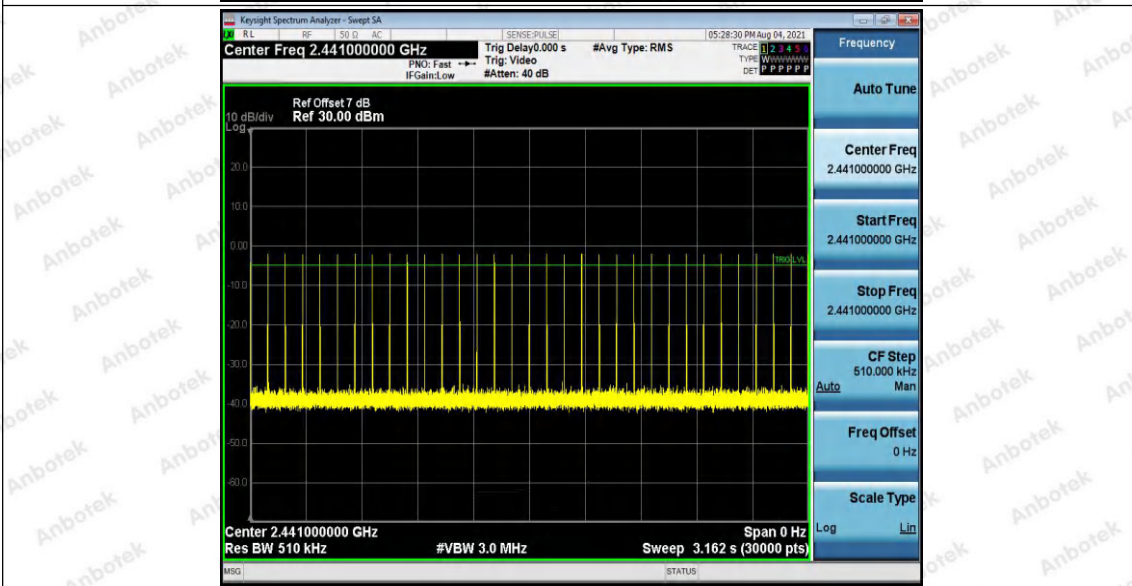
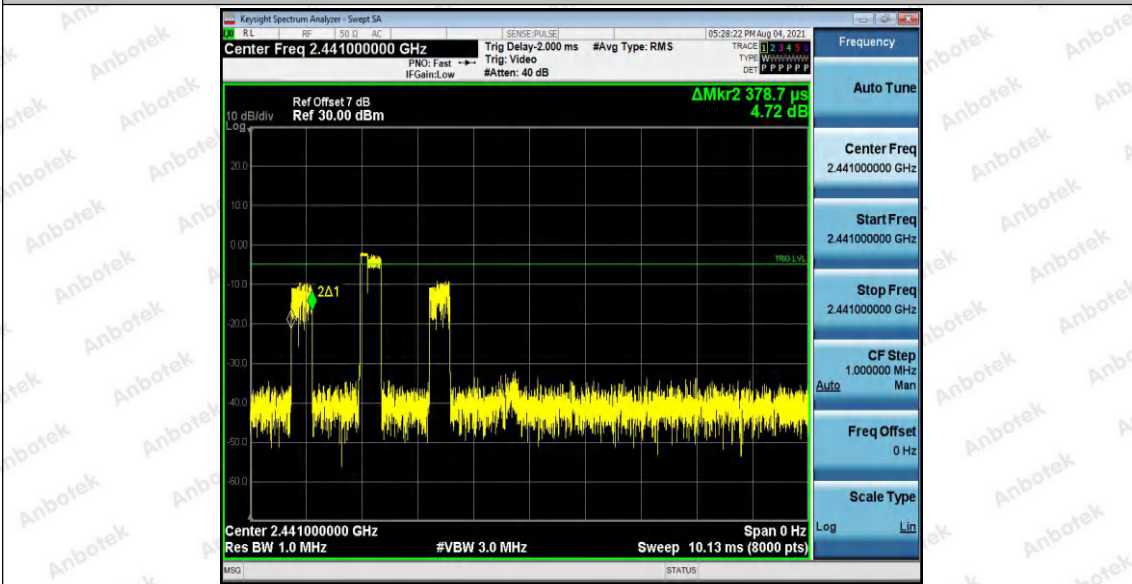
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3DH1\_Ant1\_Hop



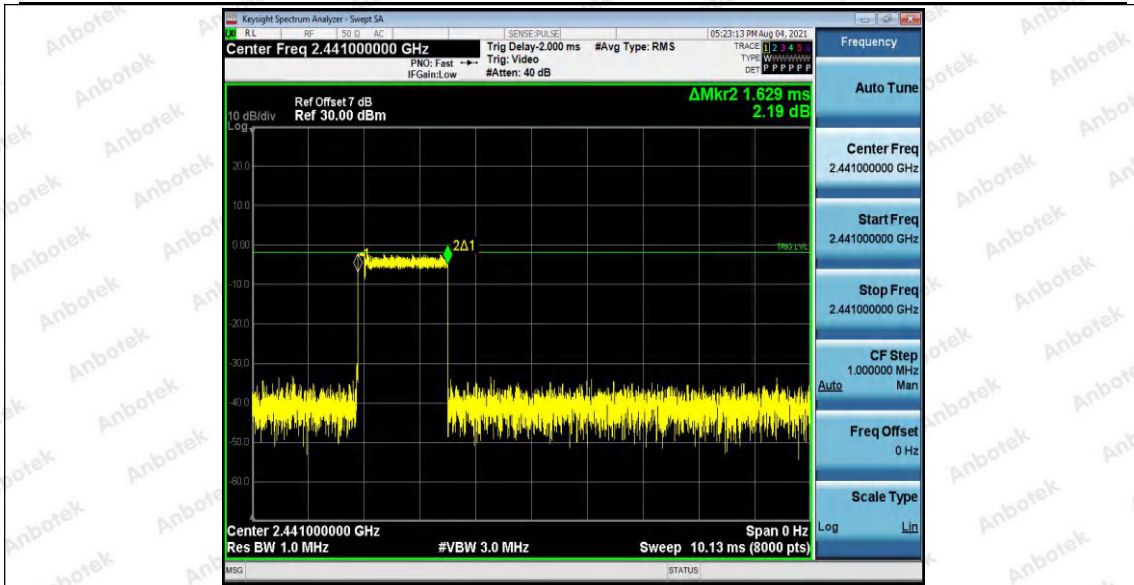
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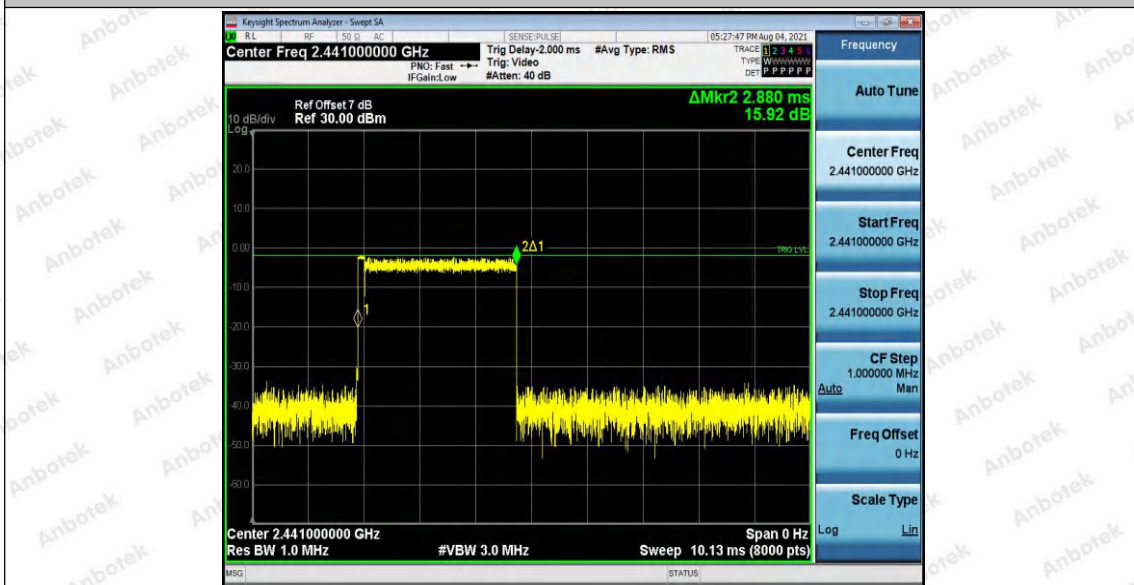
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3DH5\_Ant1\_Hop

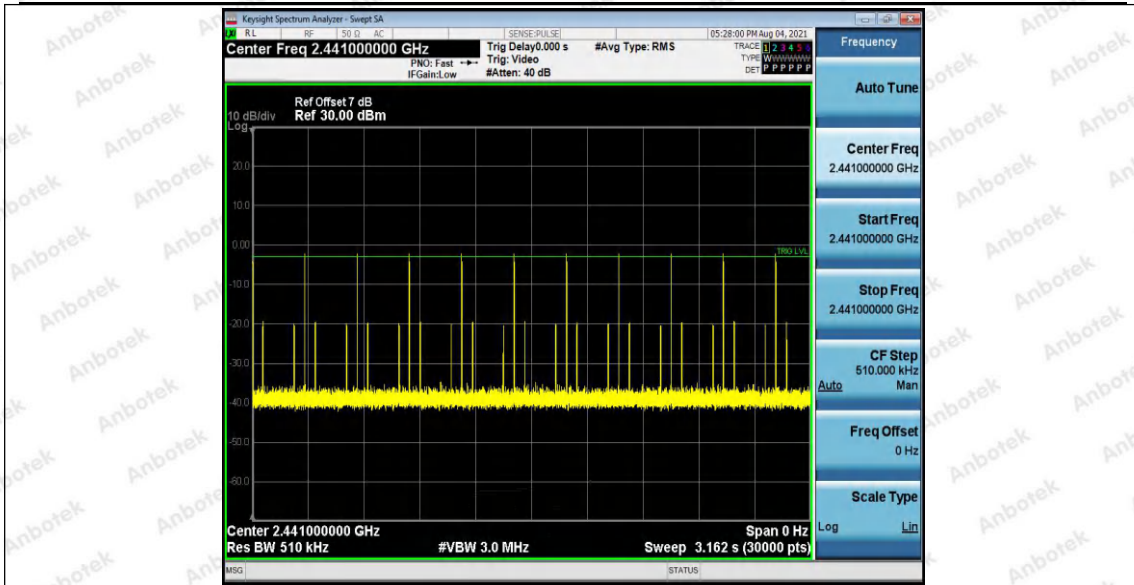


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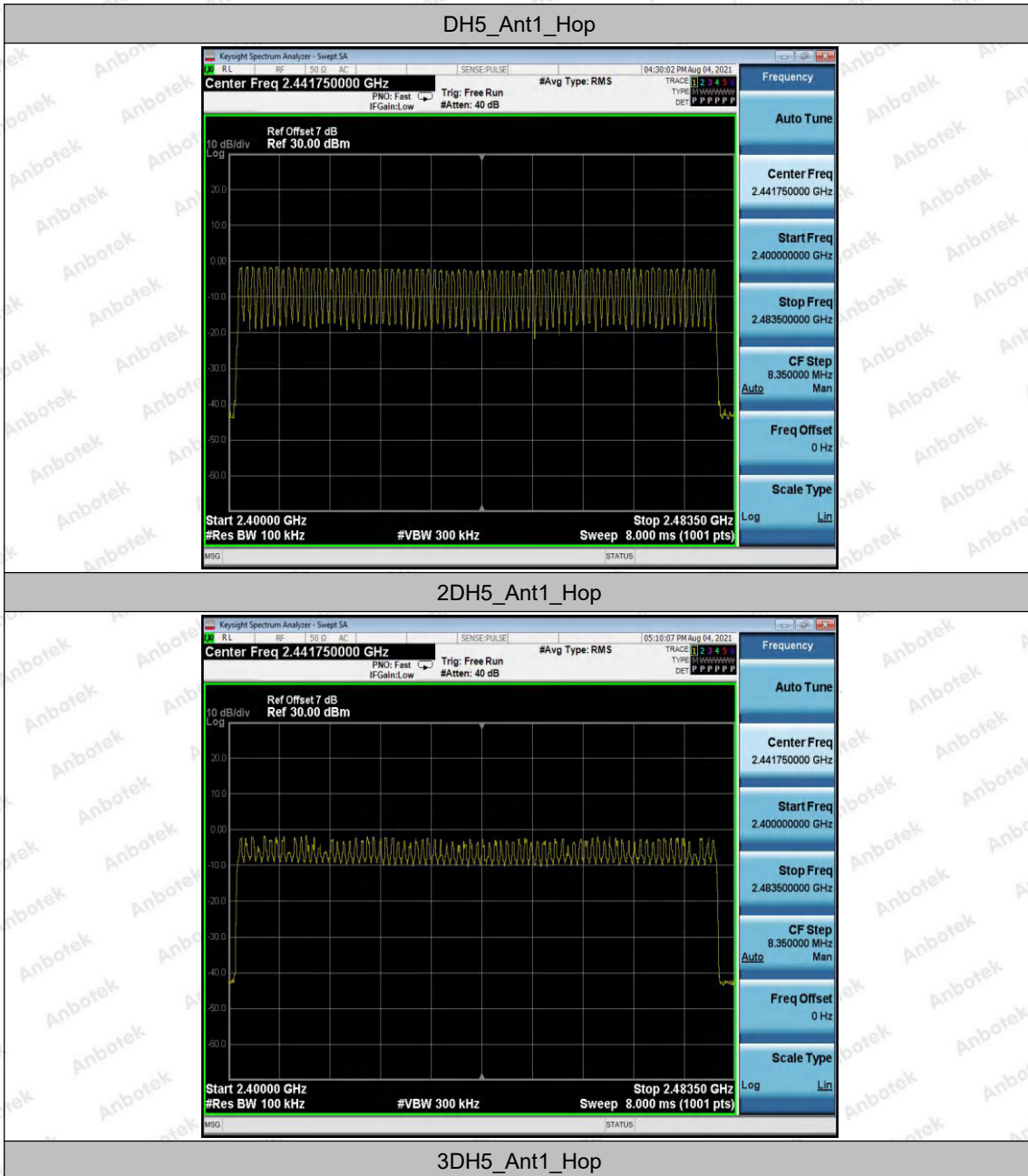
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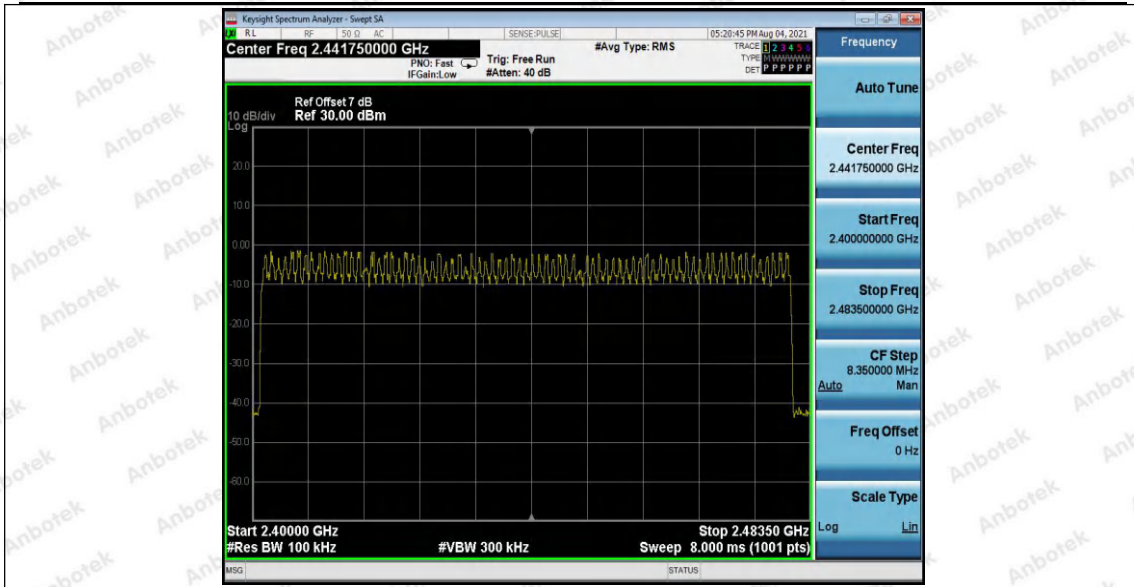
## Appendix F: Number of hopping channels

### Test Result

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

## Test Graphs





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## Appendix G: Band edge measurements

### Test Result

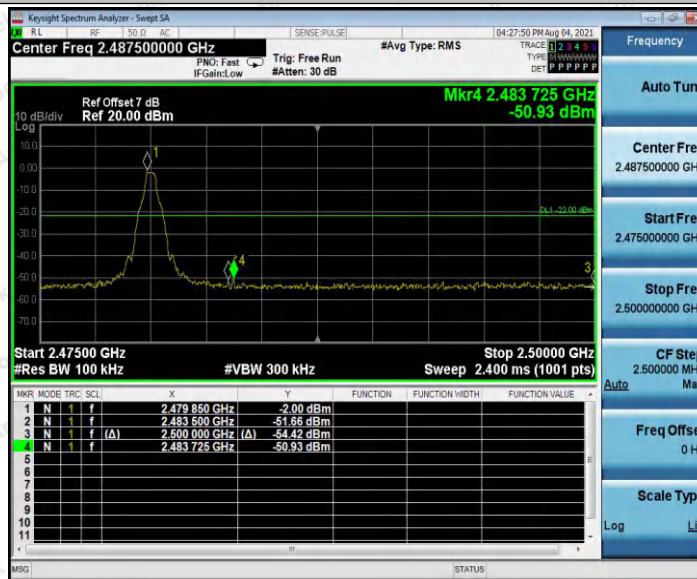
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.49	-51.5	<=-21.49	PASS
		High	2480	-2.00	-50.93	<=-22	PASS
		Low	Hop	-1.45	-51.55	<=-21.45	PASS
		High	Hop	-2.38	-54.51	<=-22.38	PASS
2DH5	Ant1	Low	2402	-1.45	-51.56	<=-21.45	PASS
		High	2480	-2.42	-51.74	<=-22.42	PASS
		Low	Hop	-6.19	-51.57	<=-26.19	PASS
		High	Hop	-3.49	-53.43	<=-23.49	PASS
3DH5	Ant1	Low	2402	-1.42	-51.81	<=-21.42	PASS
		High	2480	-1.95	-51.34	<=-21.95	PASS
		Low	Hop	-3.11	-51.74	<=-23.11	PASS
		High	Hop	-1.99	-55.04	<=-21.99	PASS

## Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



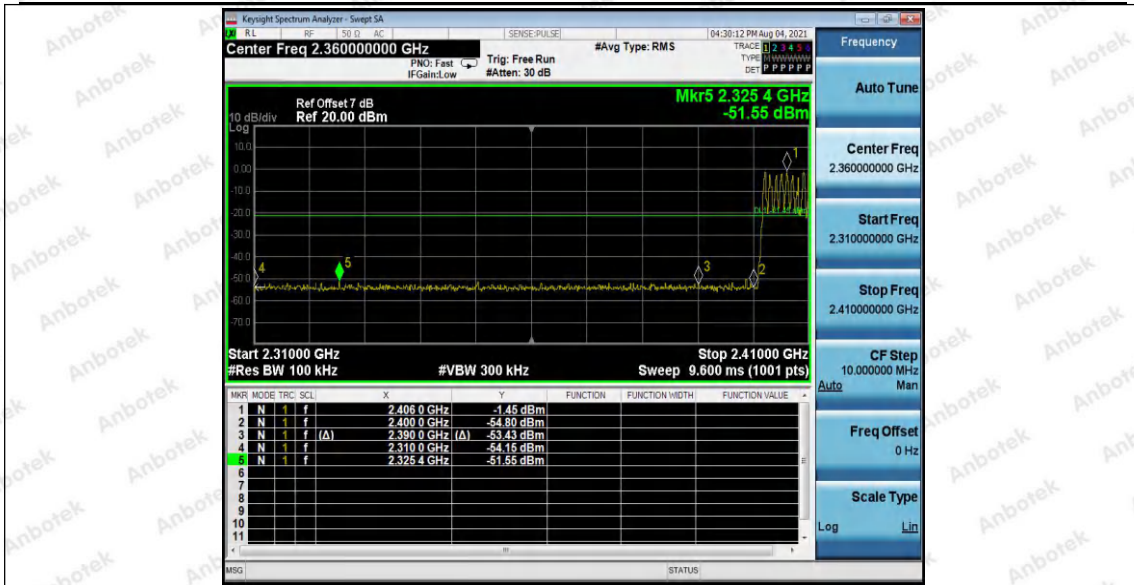
DH5\_Ant1\_Low\_Hop

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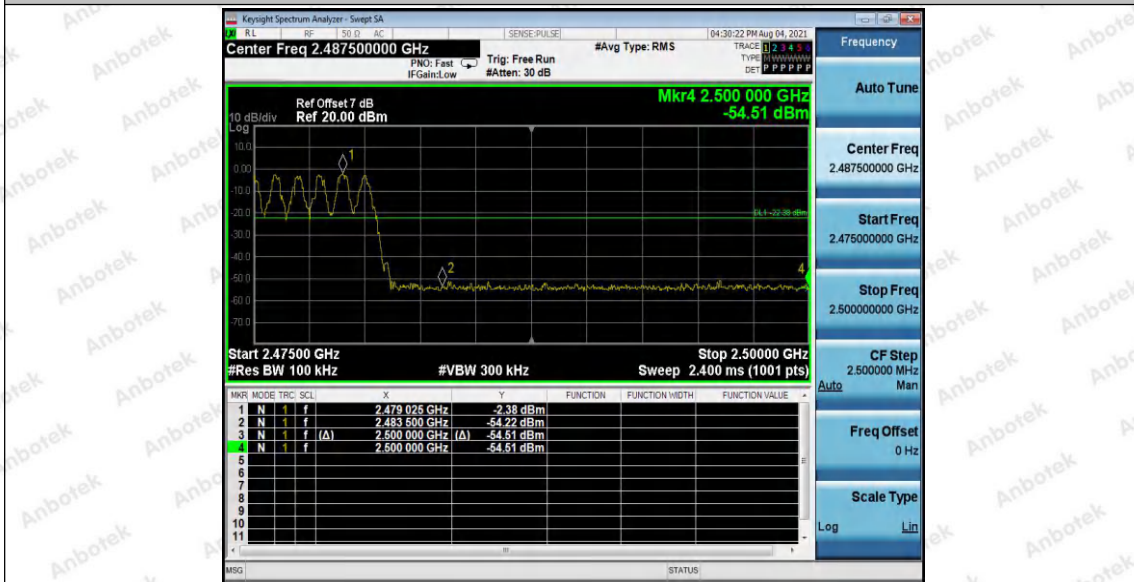
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

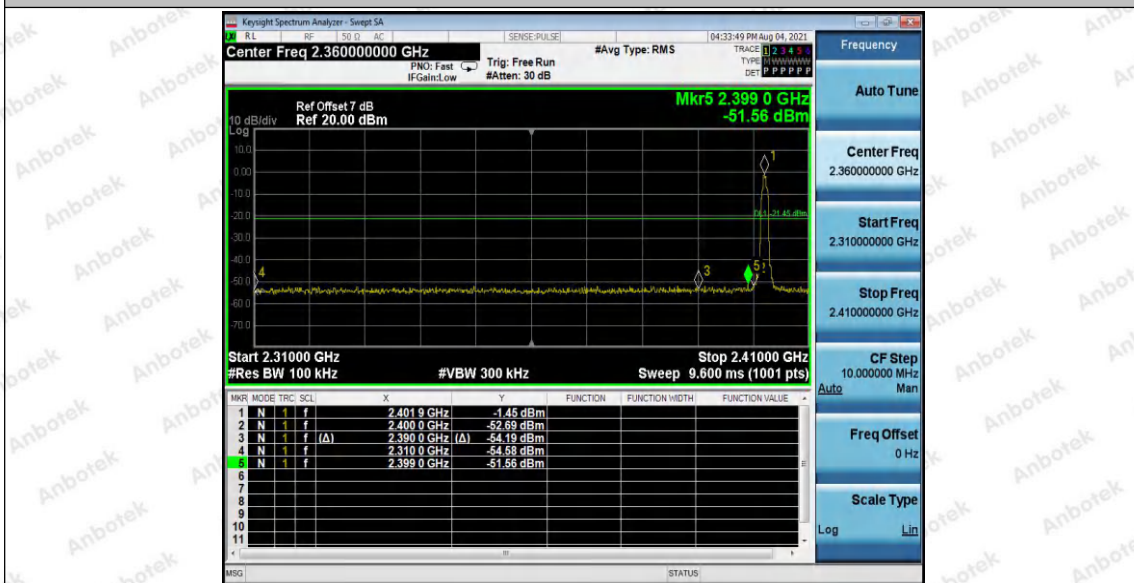
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DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



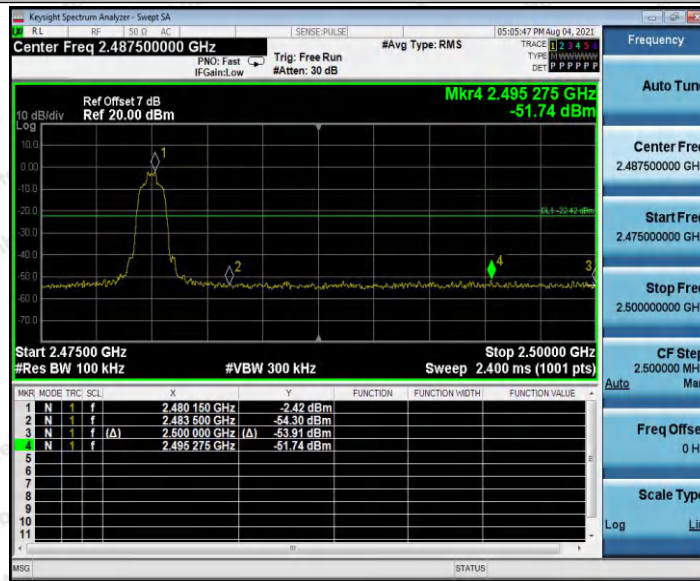
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



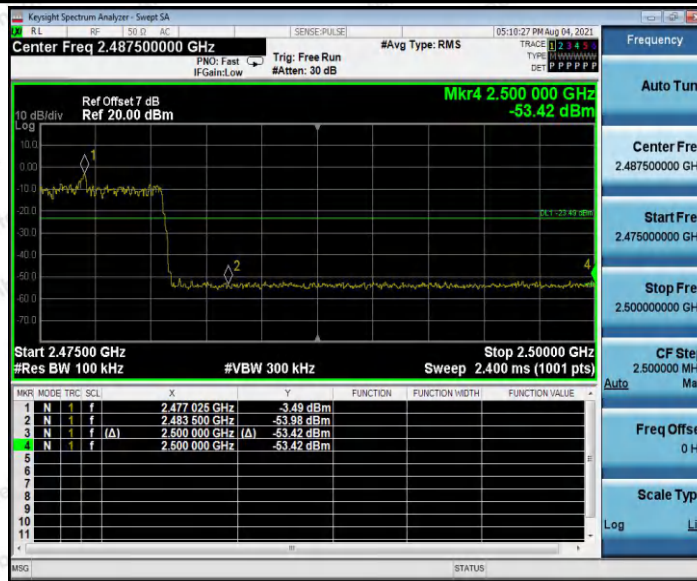
### 2DH5\_Ant1\_High\_Hop

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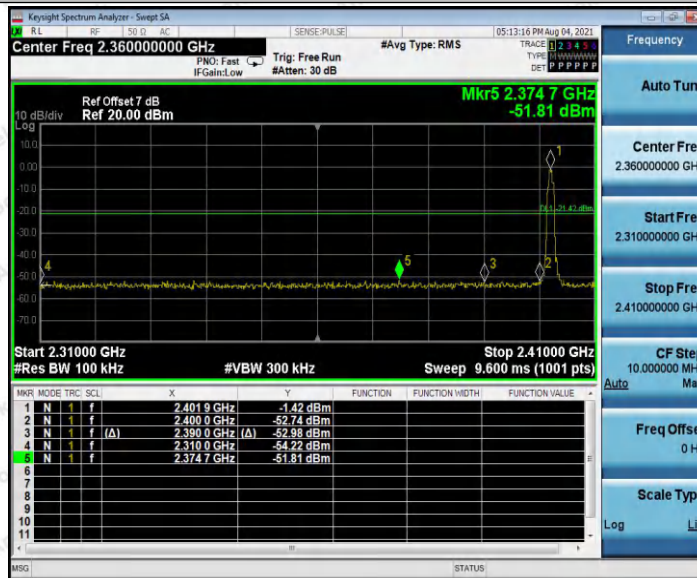
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

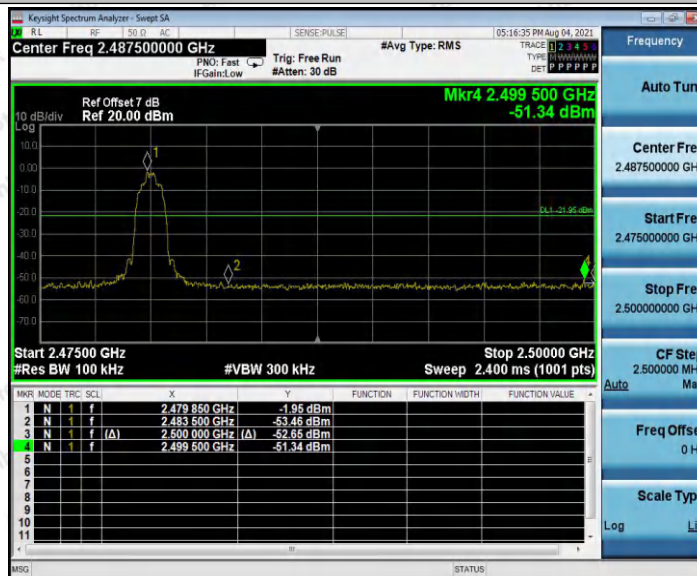
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3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480

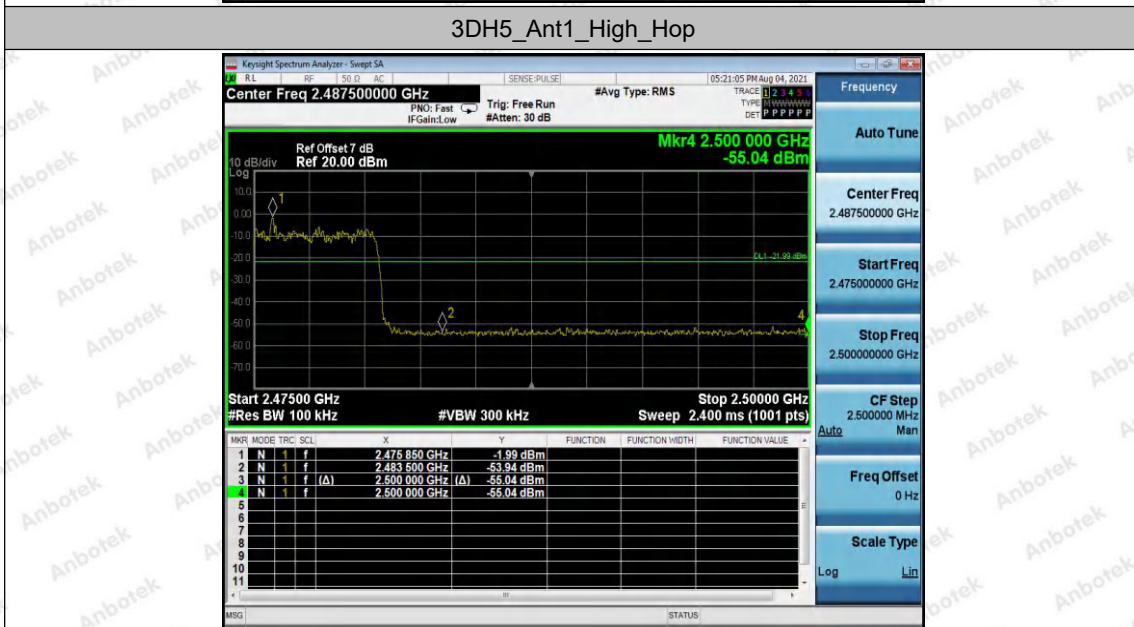
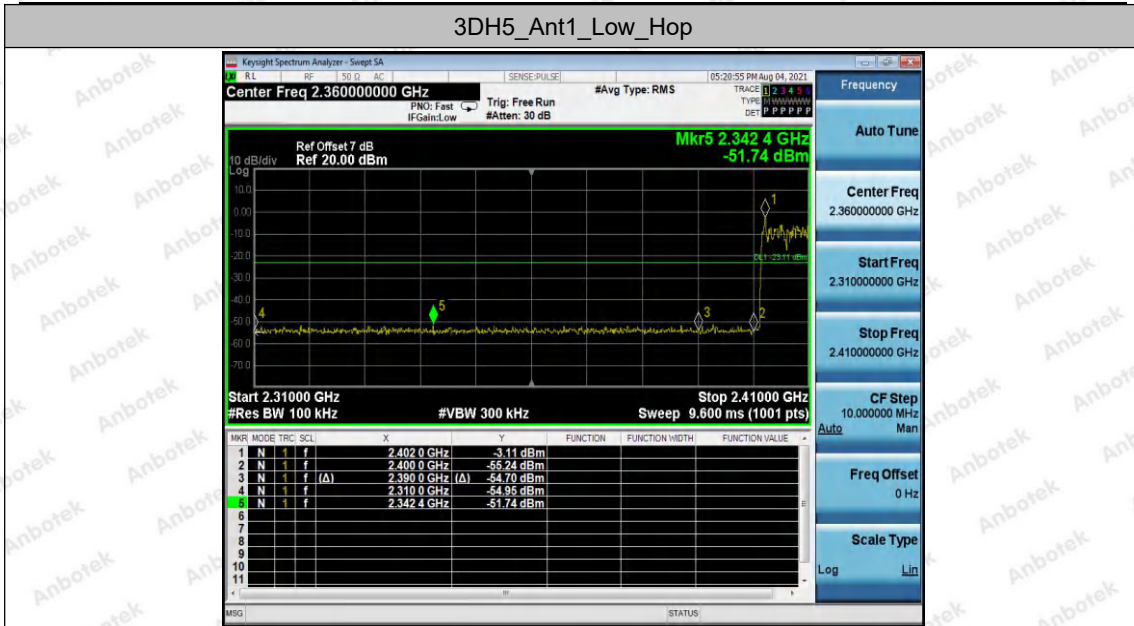


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## Appendix H: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-61.79	<=-21.5	PASS
			1000~26500	-1.50	-42.02	<=-21.5	PASS
		2441	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-62.08	<=-22.46	PASS
			1000~26500	-2.46	-45.08	<=-22.46	PASS
		2480	Reference	-2.08	-2.08	---	PASS
			30~1000	-2.08	-61.87	<=-22.08	PASS
			1000~26500	-2.08	-43.49	<=-22.08	PASS
2DH5	Ant1	2402	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-62.1	<=-21.61	PASS
			1000~26500	-1.61	-45.07	<=-21.61	PASS
		2441	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-62.17	<=-22.94	PASS
			1000~26500	-2.94	-47.3	<=-22.94	PASS
		2480	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-61.03	<=-22.16	PASS
			1000~26500	-2.16	-44.28	<=-22.16	PASS
3DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-61.7	<=-21.43	PASS
			1000~26500	-1.43	-46.97	<=-21.43	PASS
		2441	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-61.79	<=-22.4	PASS
			1000~26500	-2.40	-47.24	<=-22.4	PASS
		2480	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-62.06	<=-21.98	PASS
			1000~26500	-1.98	-46.83	<=-21.98	PASS

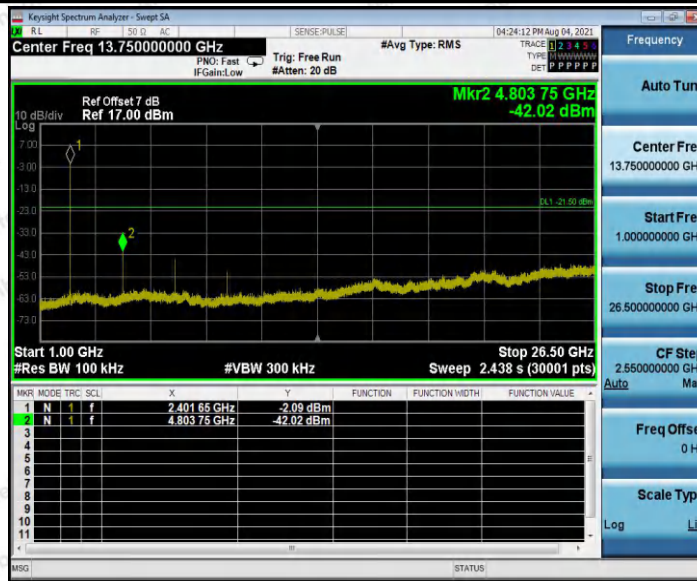
## Test Graphs



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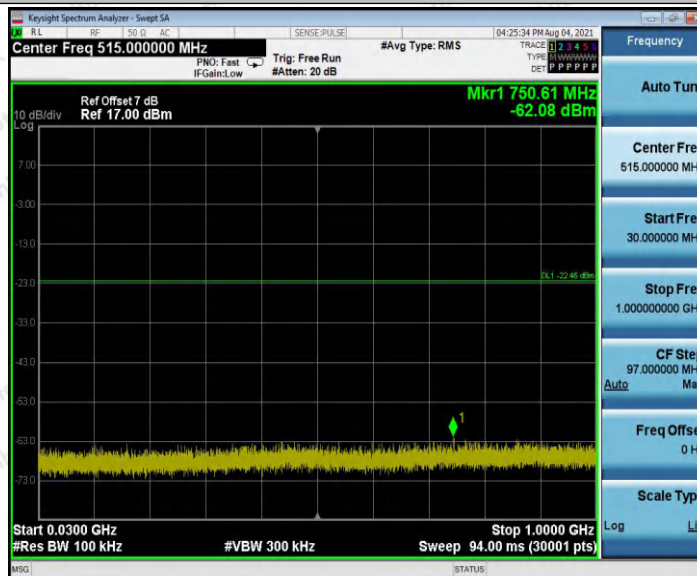
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DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



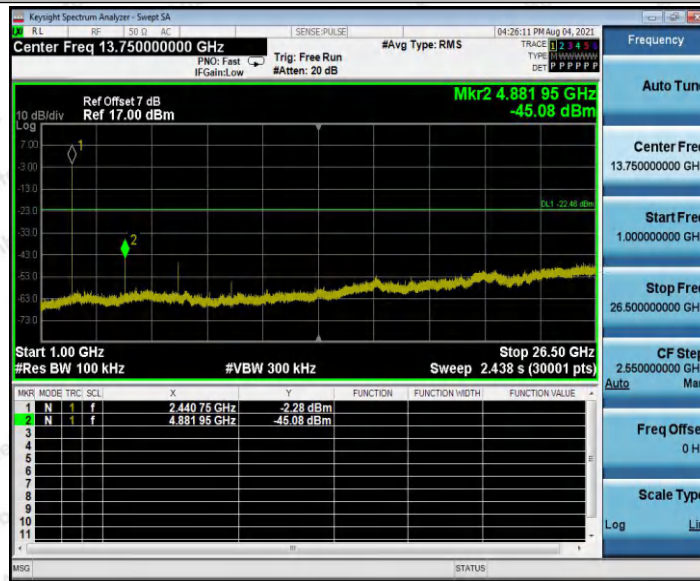
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DH5\_Ant1\_2441\_1000~26500



DH5\_Ant1\_2480\_0~Reference



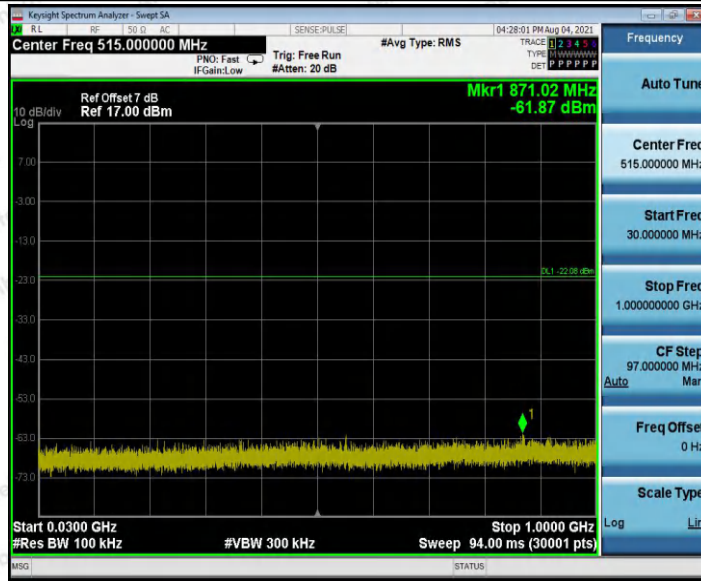
DH5\_Ant1\_2480\_30~1000

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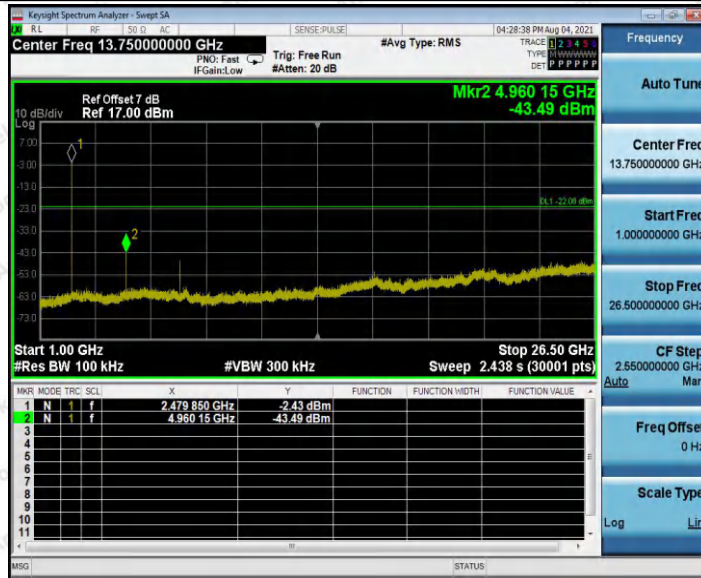
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference

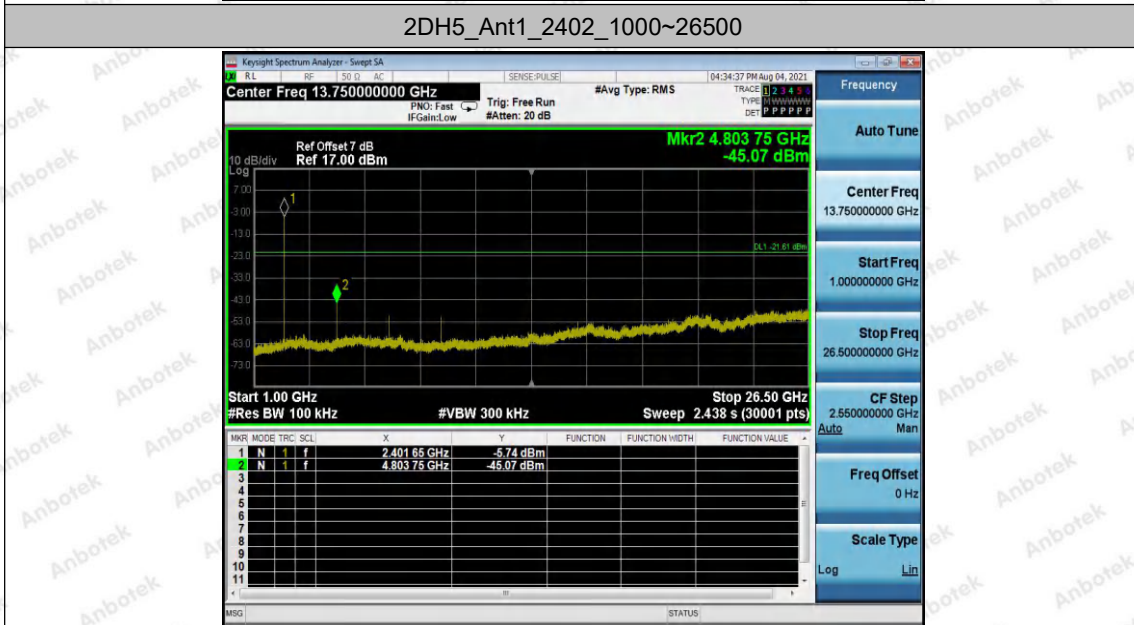
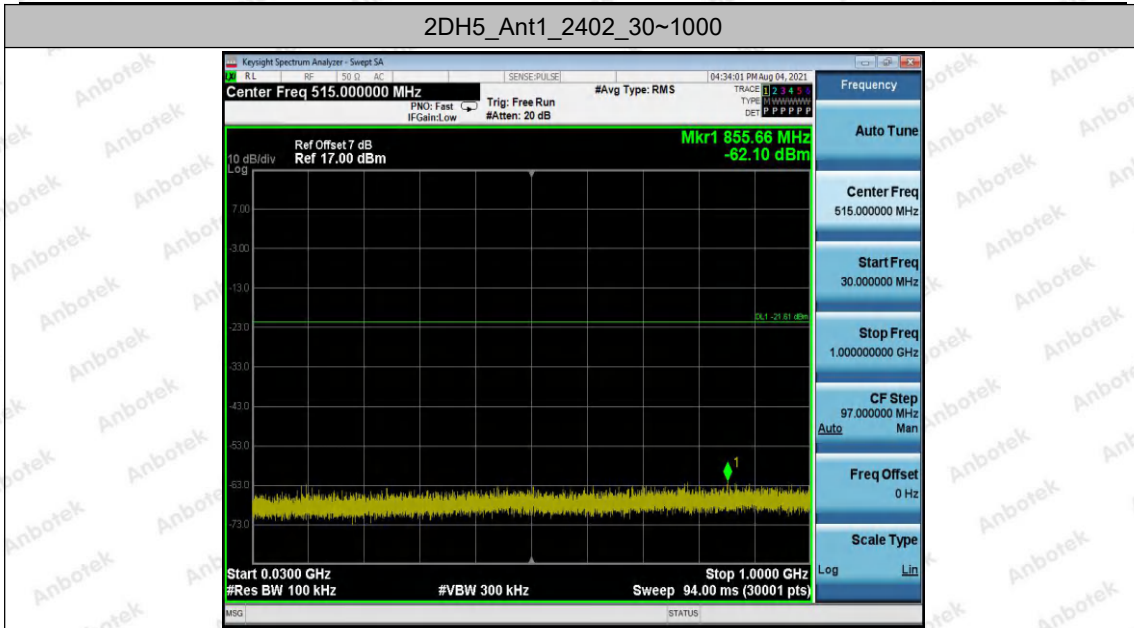


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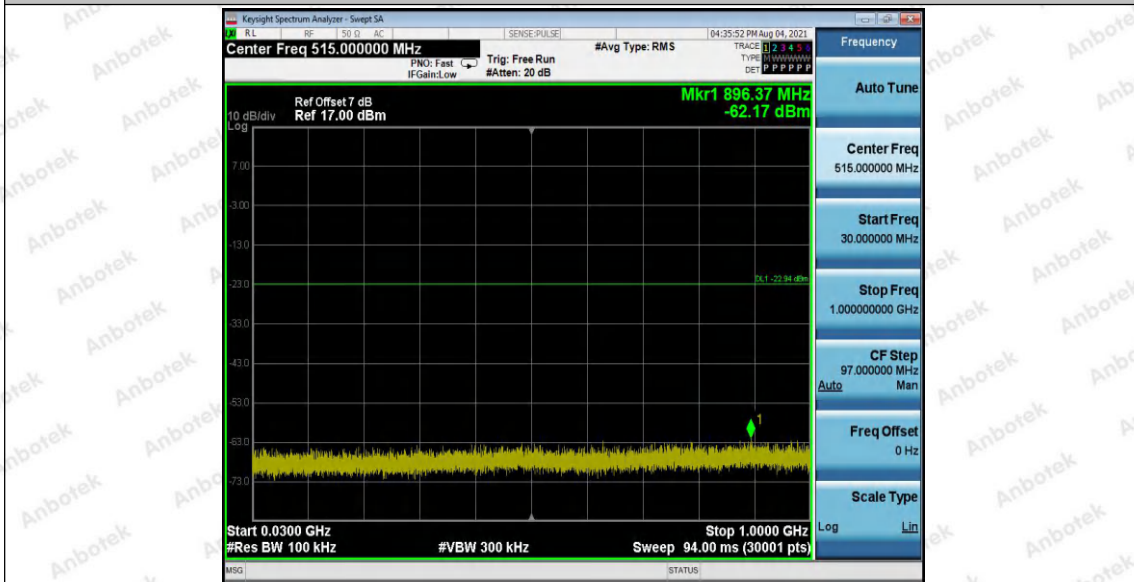




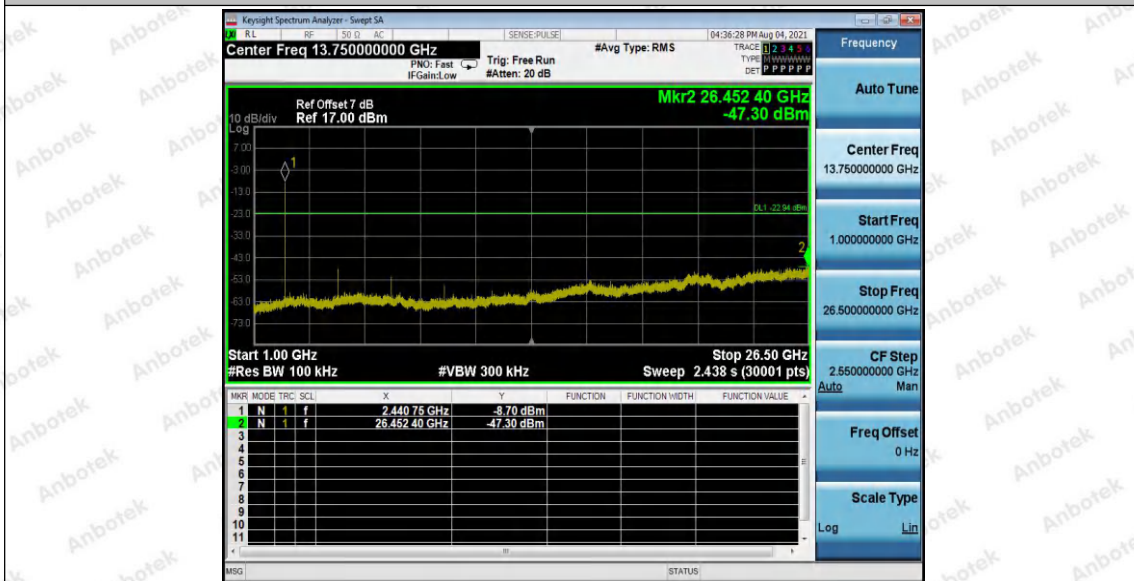
**2DH5\_Ant1\_2441\_0~Reference**



2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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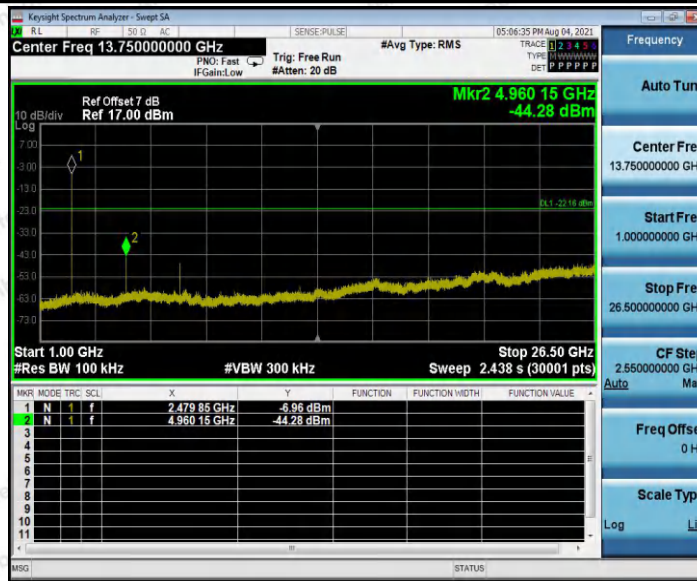
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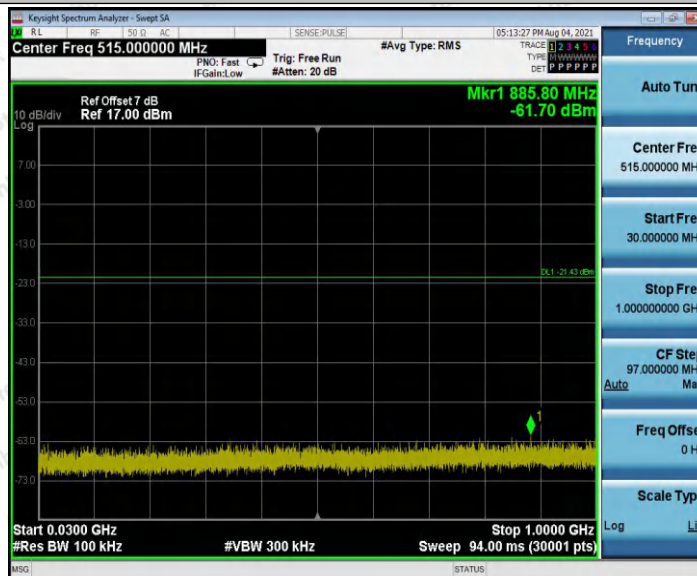
Hotline  
 400-003-0500  
 www.anbotek.com



3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

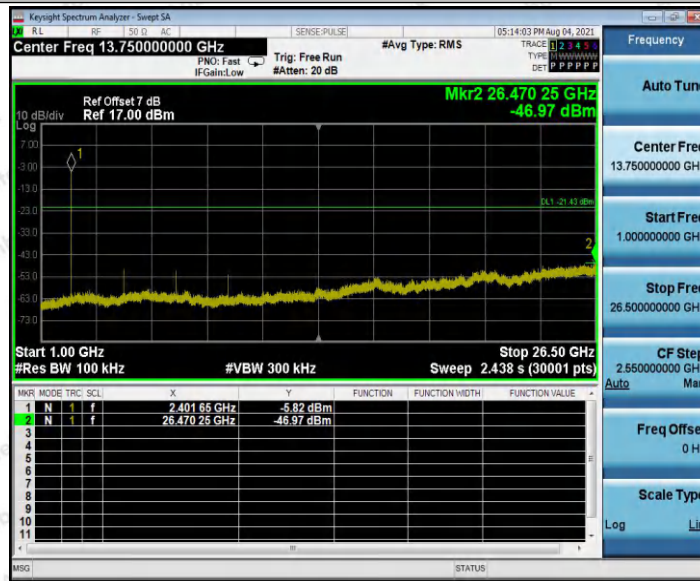


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3DH5\_Ant1\_2402\_1000~26500



3DH5\_Ant1\_2441\_0~Reference



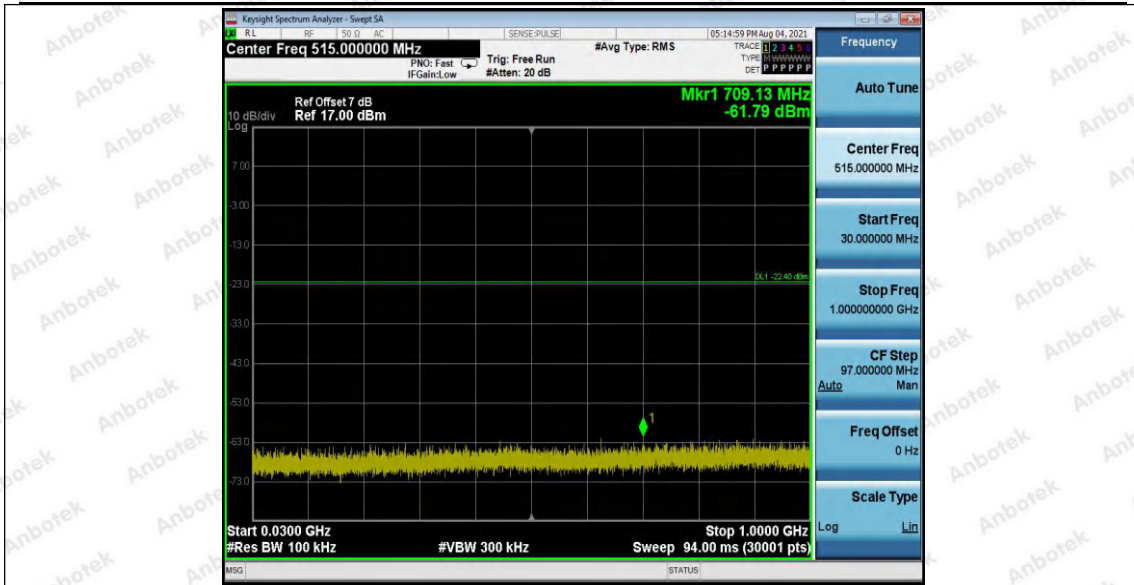
3DH5\_Ant1\_2441\_30~1000

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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference

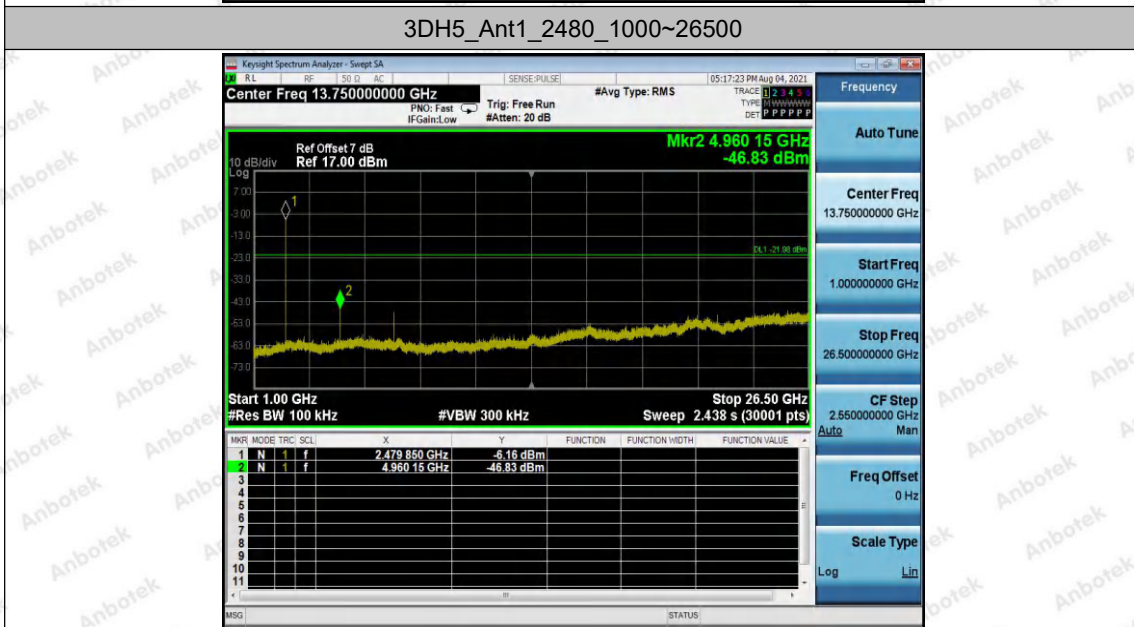
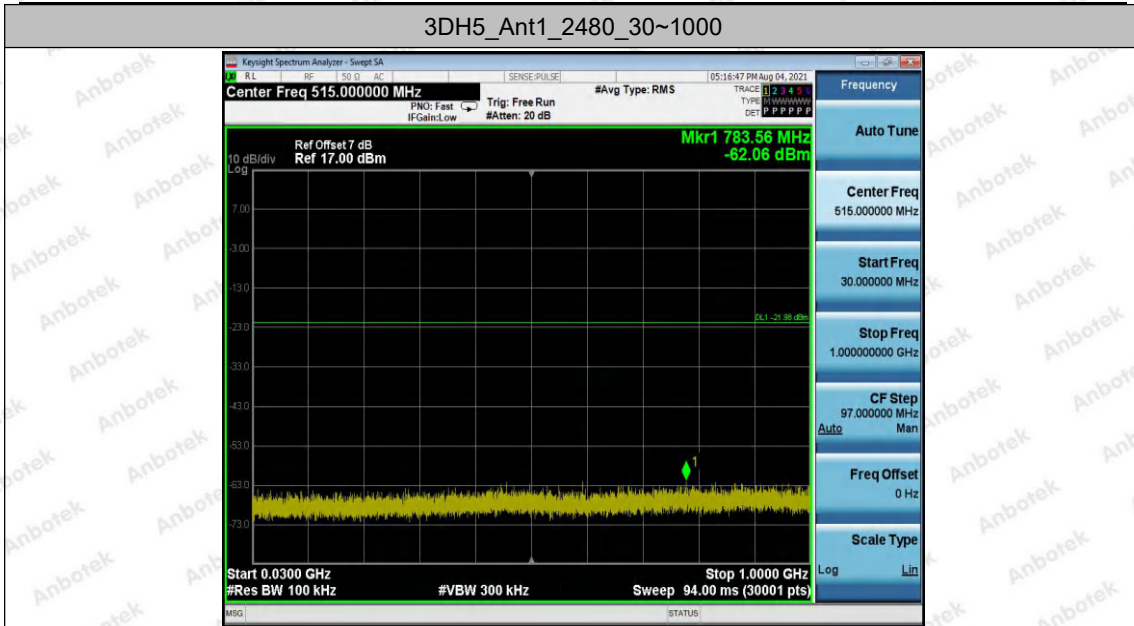


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## Appendix I: Duty Cycle

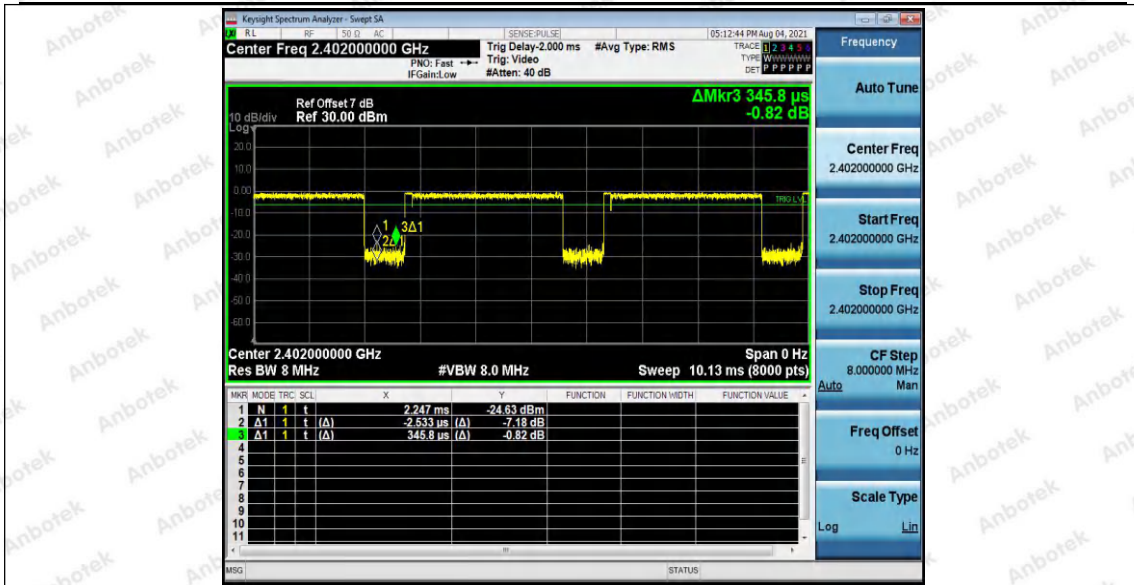
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	0.00	0.01	0.0000	0.00	正无穷大	---	PASS
2DH5	Ant1	2402	0.00	0.03	0.0000	0.00	正无穷大	---	PASS
3DH5	Ant1	2402	0.00	0.35	0.0000	0.00	正无穷大	---	PASS



## Test Graphs





---End---