

## Appendix Test Data

Project No.:	18220WC10199201	Test Date:	2021.9.3
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	1.131	2401.430	2402.561	---	PASS
		2441	1.110	2440.430	2441.540	---	PASS
		2480	1.119	2479.439	2480.558	---	PASS
2DH5	Ant1	2402	1.380	2401.304	2402.684	---	PASS
		2441	1.356	2440.313	2441.669	---	PASS
		2480	1.362	2479.307	2480.669	---	PASS
3DH5	Ant1	2402	1.404	2401.298	2402.702	---	PASS
		2441	1.365	2440.316	2441.681	---	PASS
		2480	1.407	2479.298	2480.705	---	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	0.88889	2401.55 1	2402.440	---	PASS
		2441	0.89555	2440.54 9	2441.445	---	PASS
		2480	0.89467	2479.54 9	2480.443	---	PASS
2DH5	Ant1	2402	1.2015	2401.39 2	2402.593	---	PASS
		2441	1.1954	2440.39 7	2441.592	---	PASS
		2480	1.1783	2479.40 3	2480.581	---	PASS
3DH5	Ant1	2402	1.2058	2401.38 4	2402.590	---	PASS
		2441	1.2036	2440.38 5	2441.588	---	PASS
		2480	1.1962	2479.39 0	2480.586	---	PASS

## Test Graphs



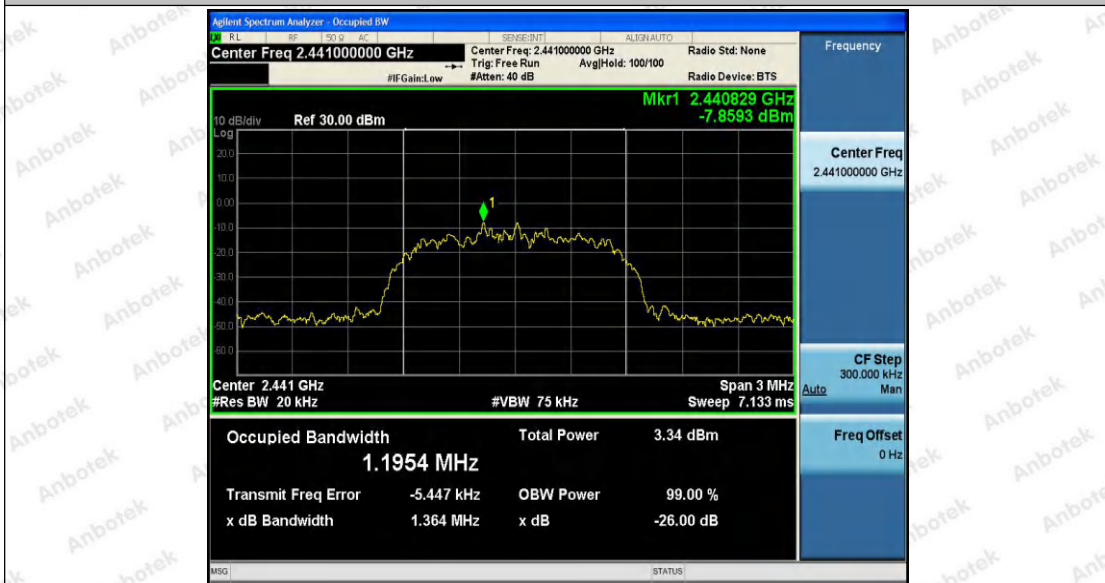




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



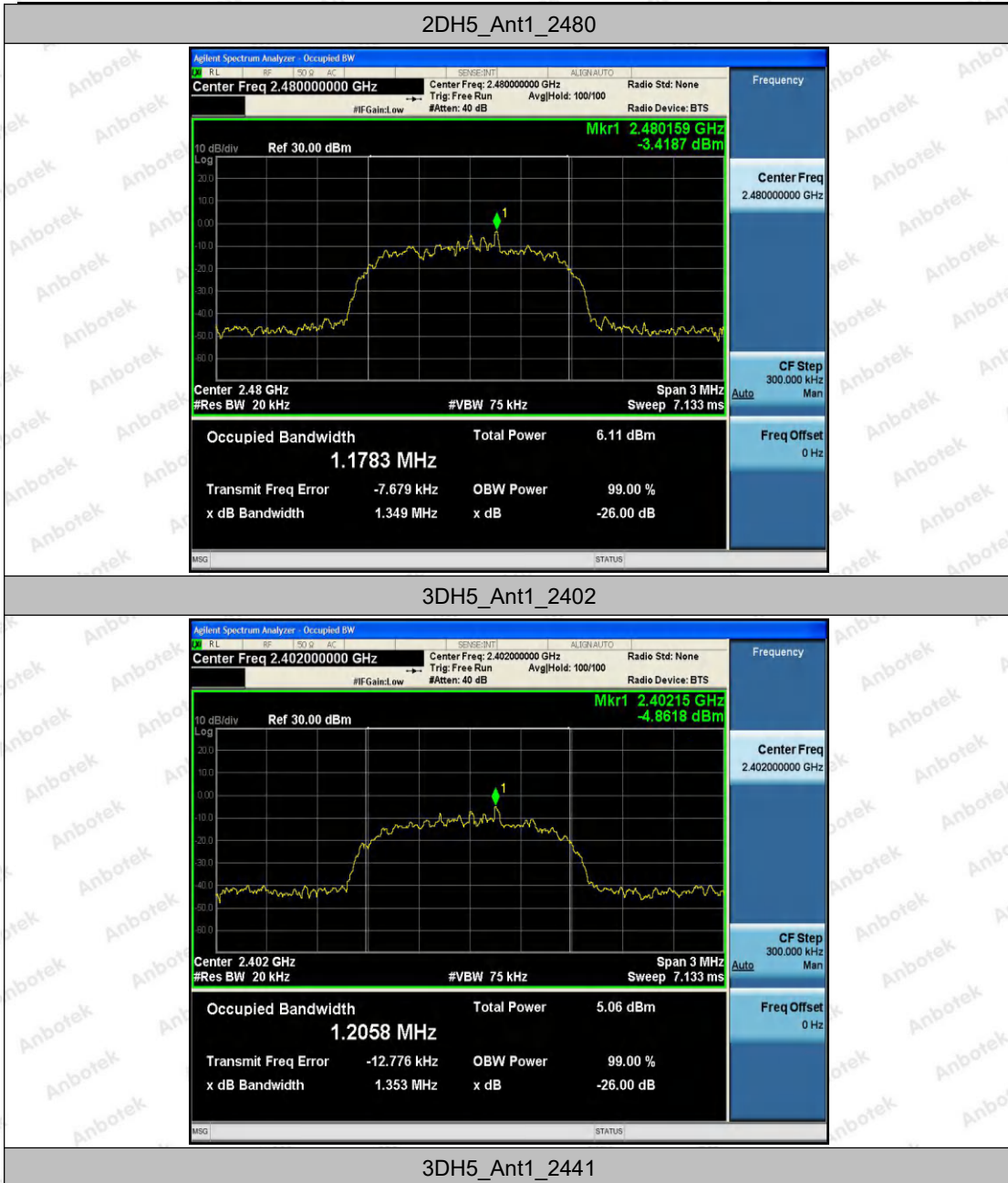
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3DH5\_Ant1\_2480



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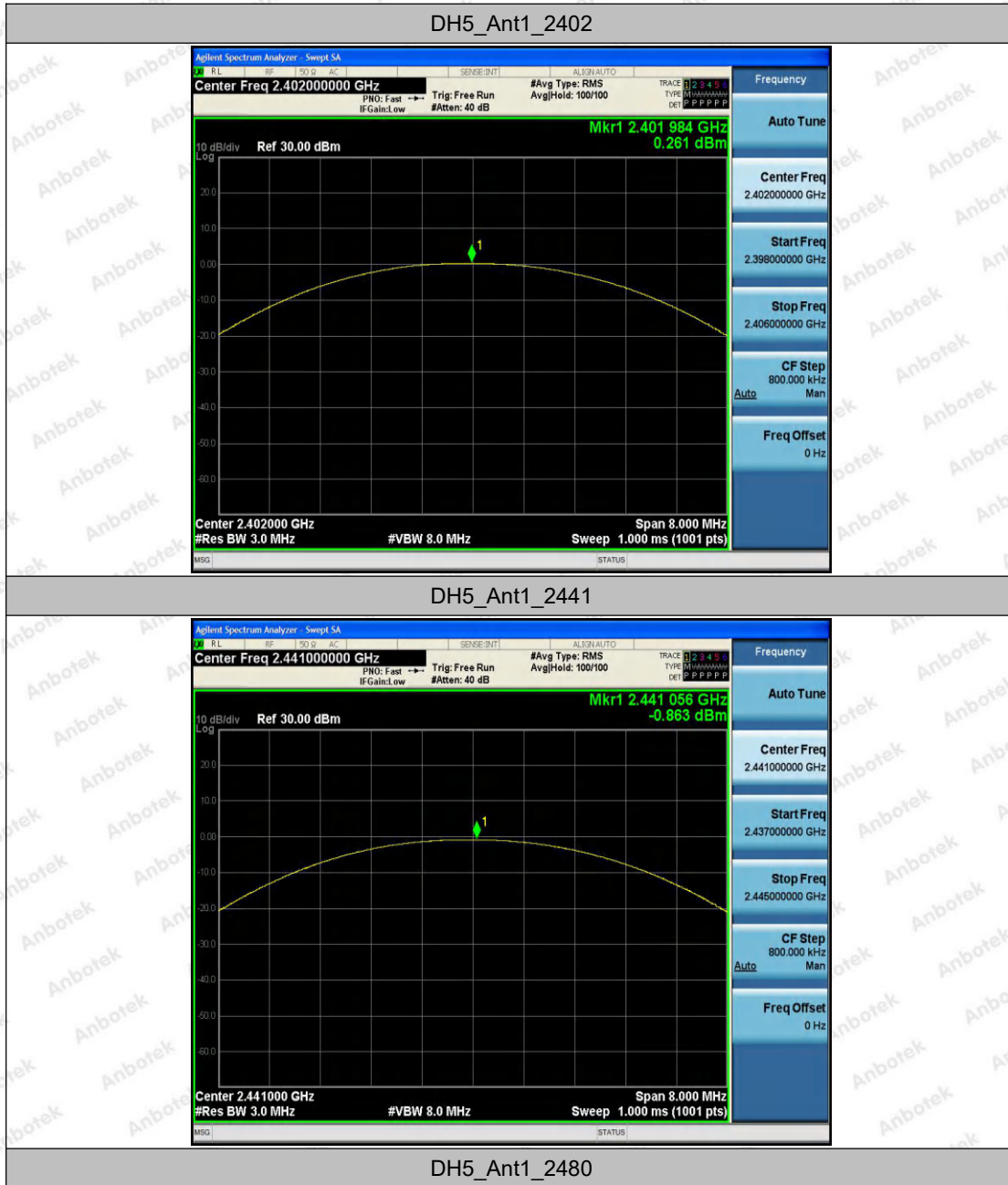


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.26	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	1.71	≤20.97	PASS
2DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-1.66	≤20.97	PASS
		2480	0.83	≤20.97	PASS
3DH5	Ant1	2402	-0.28	≤20.97	PASS
		2441	-1.5	≤20.97	PASS
		2480	0.92	≤20.97	PASS

## Test Graphs



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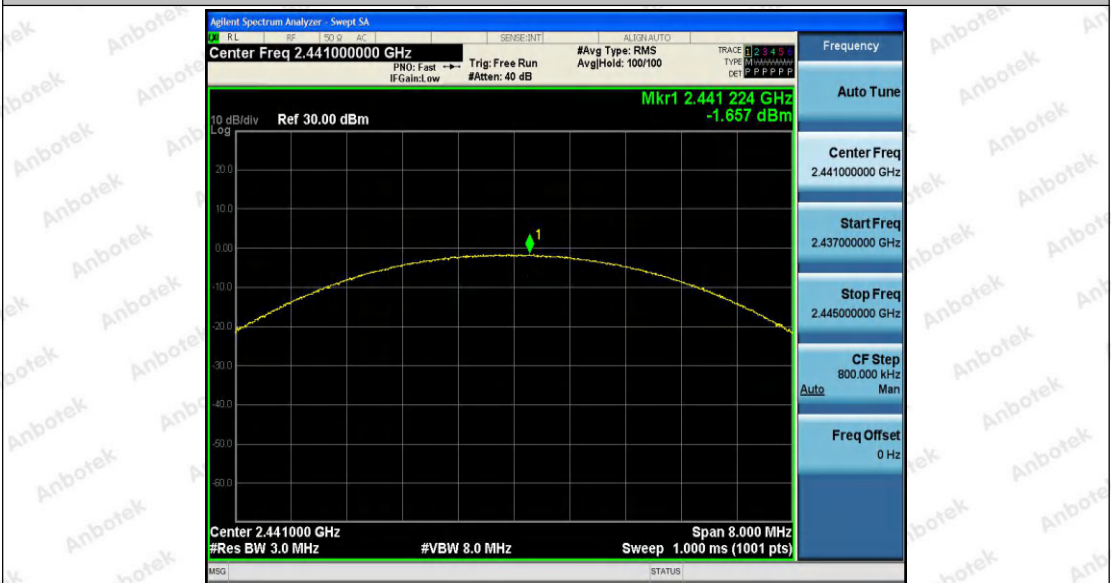




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

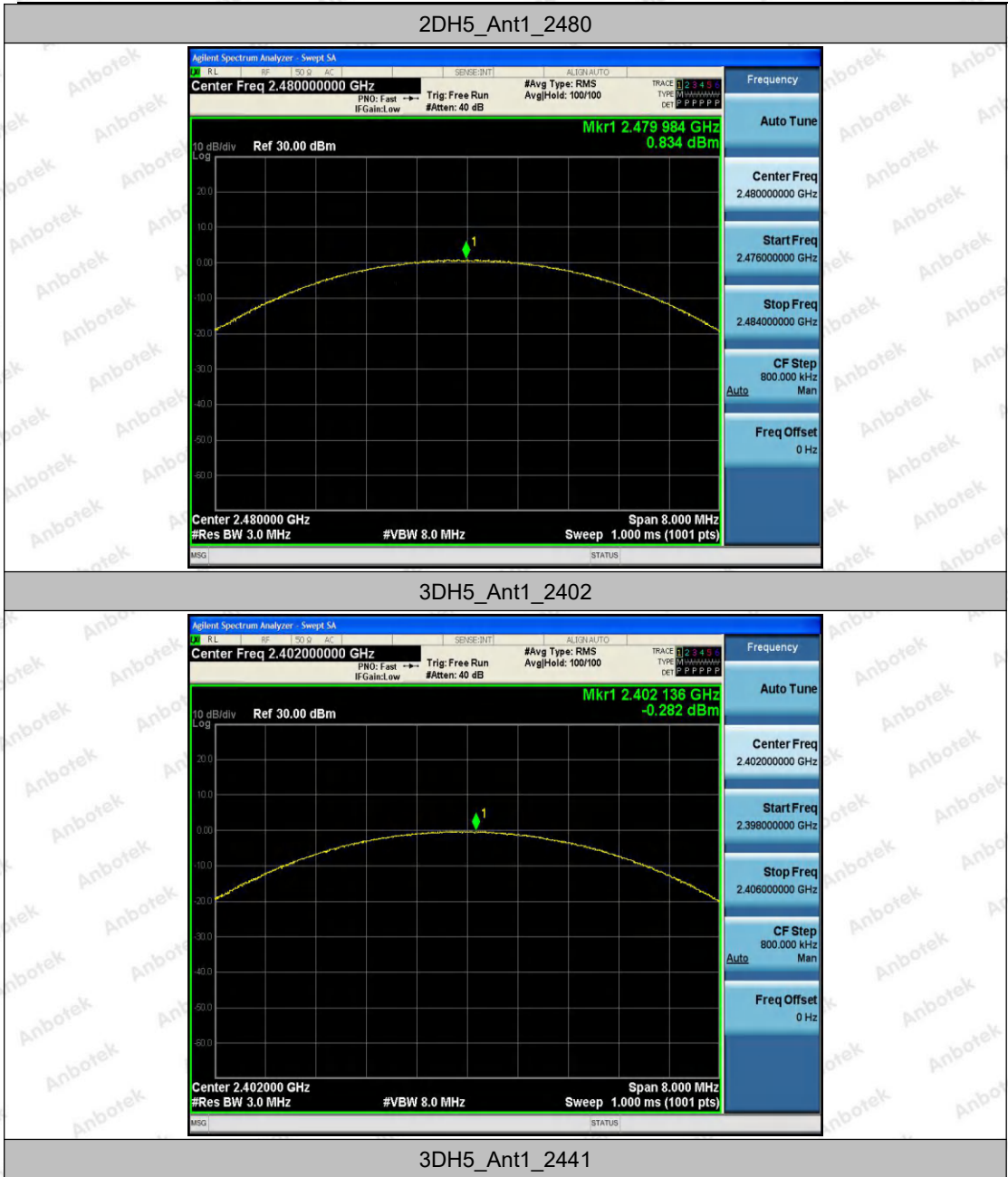


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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.954	$\geq 0.754$	PASS
2DH5	Ant1	Hop	1.146	$\geq 0.920$	PASS
3DH5	Ant1	Hop	0.958	$\geq 0.938$	PASS



## Test Graphs





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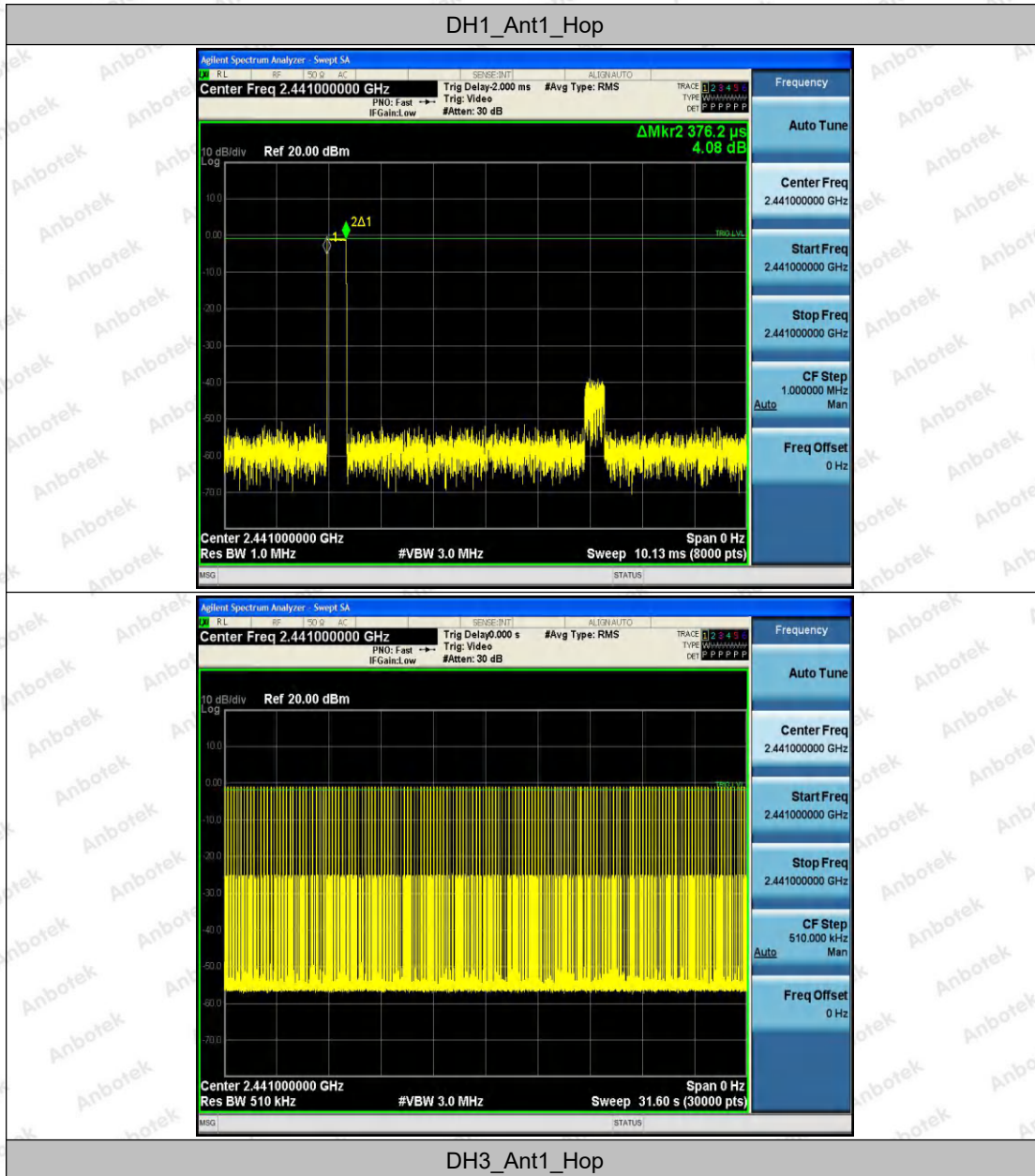


## Appendix E: Time of occupancy

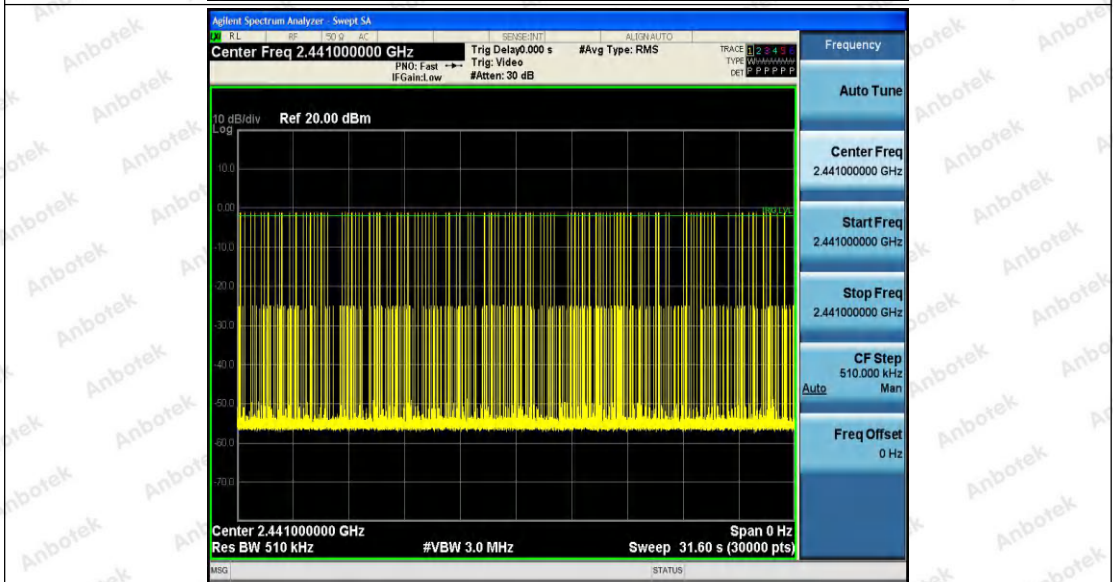
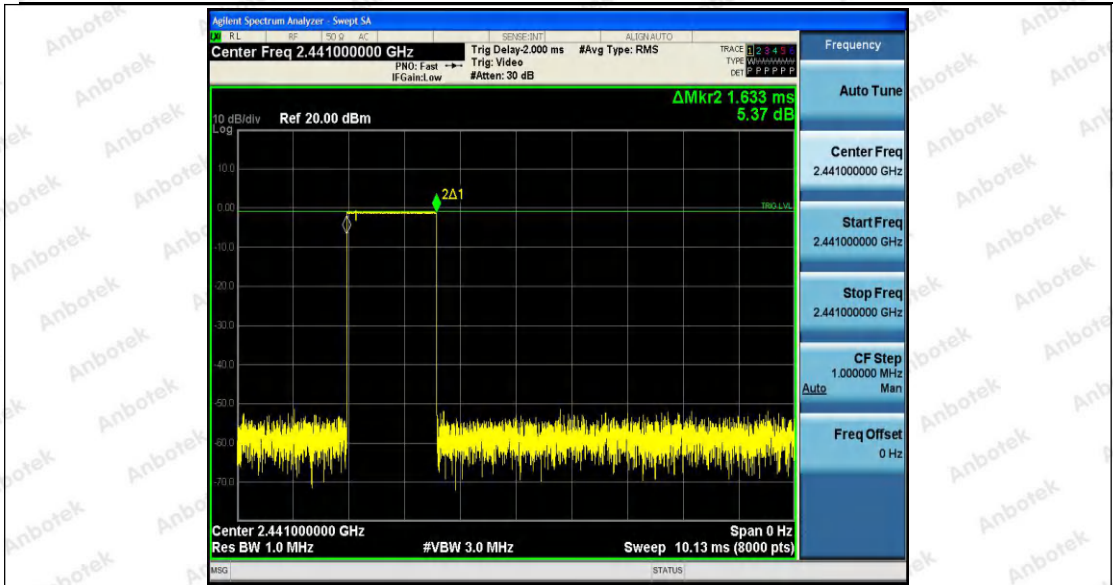
### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	105	0.303	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.89	99	0.286	≤0.4	PASS

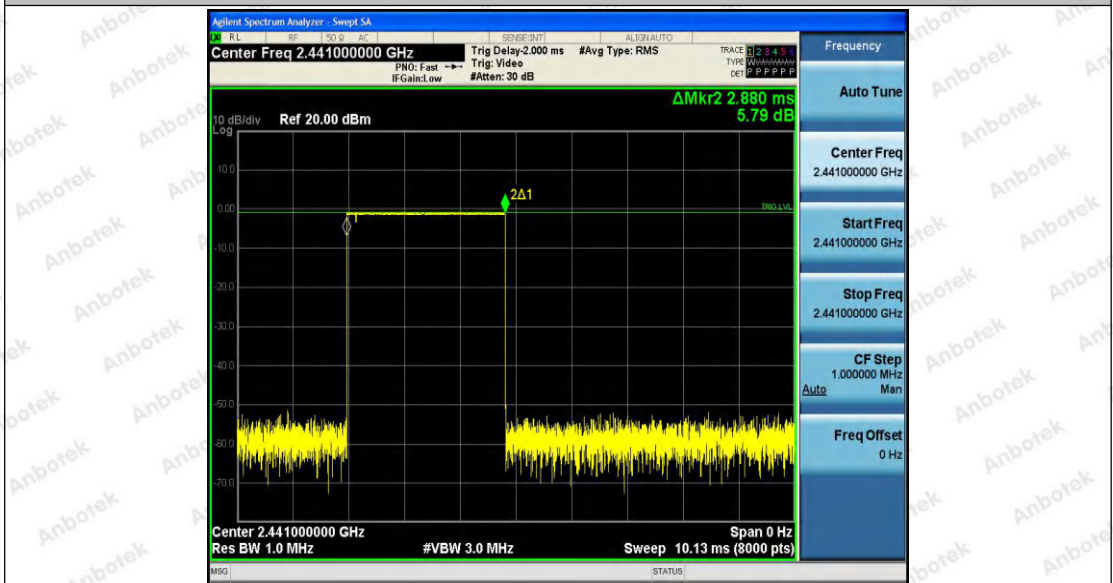
## Test Graphs


**DH3\_Ant1\_Hop**





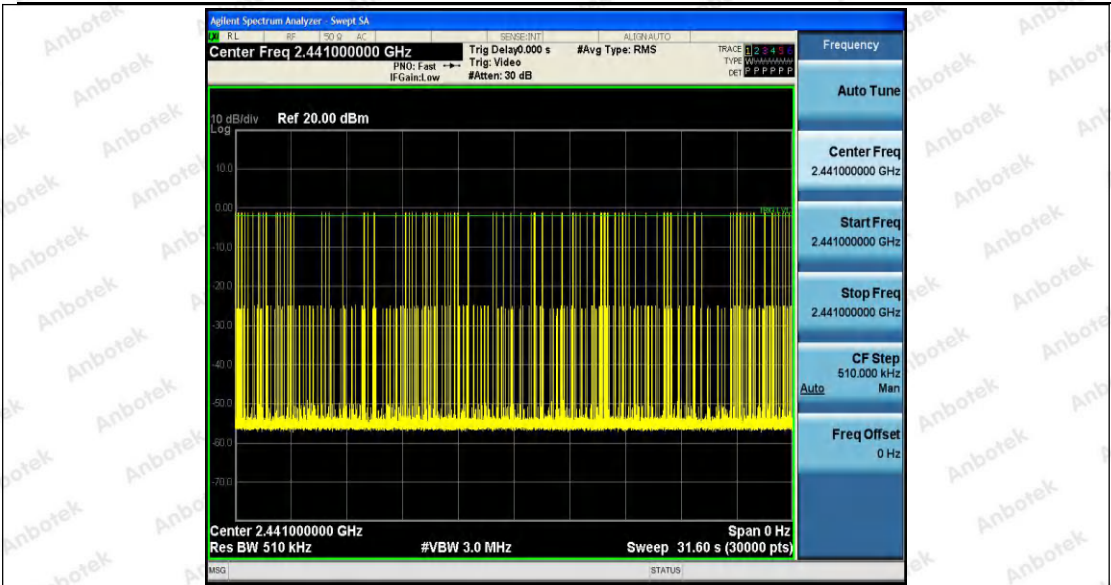
DH5\_Ant1\_Hop



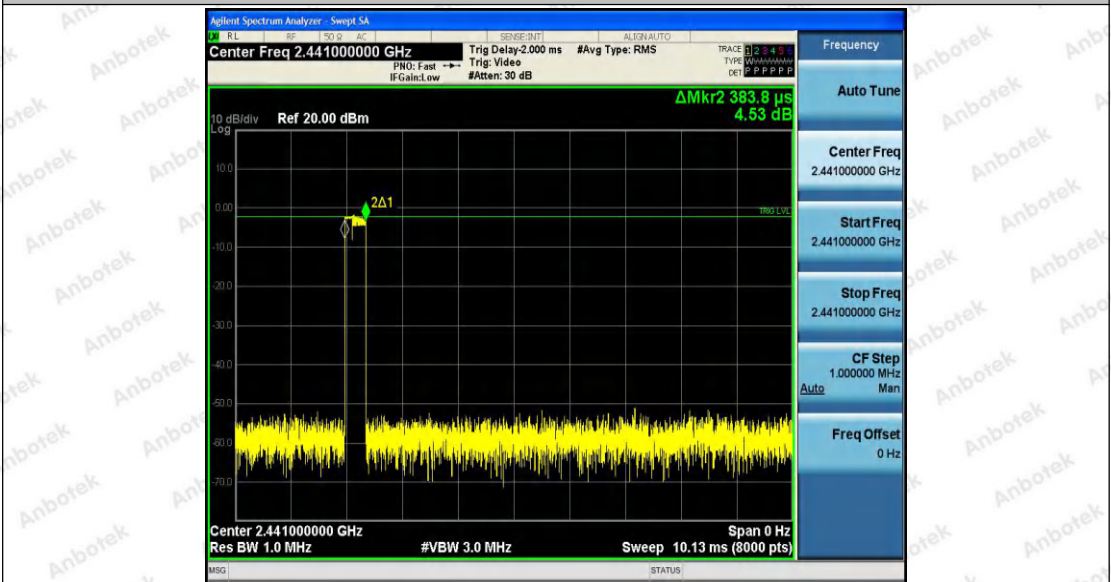
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2DH1\_Ant1\_Hop



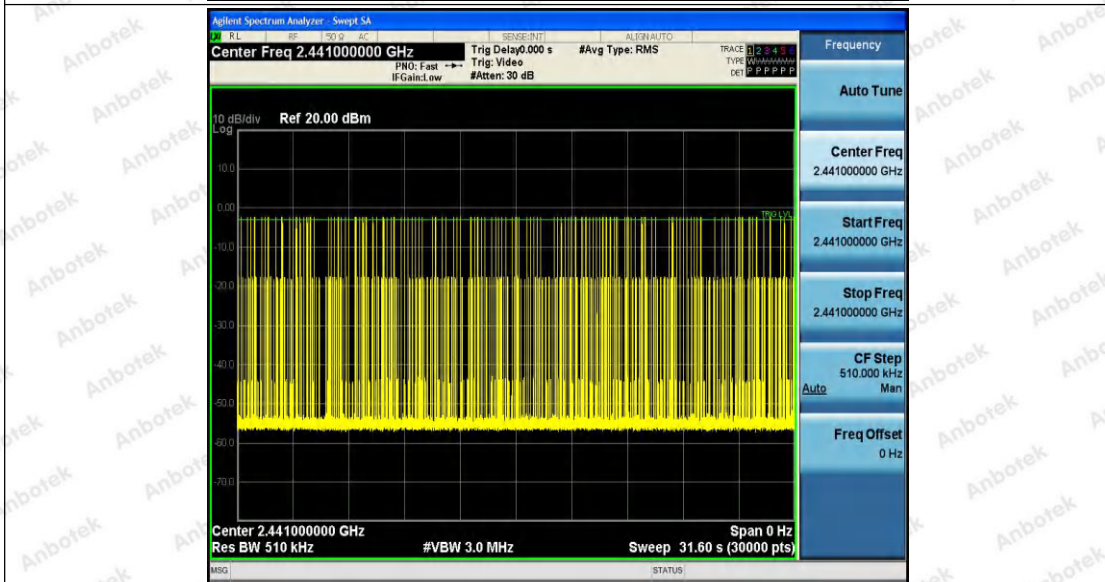
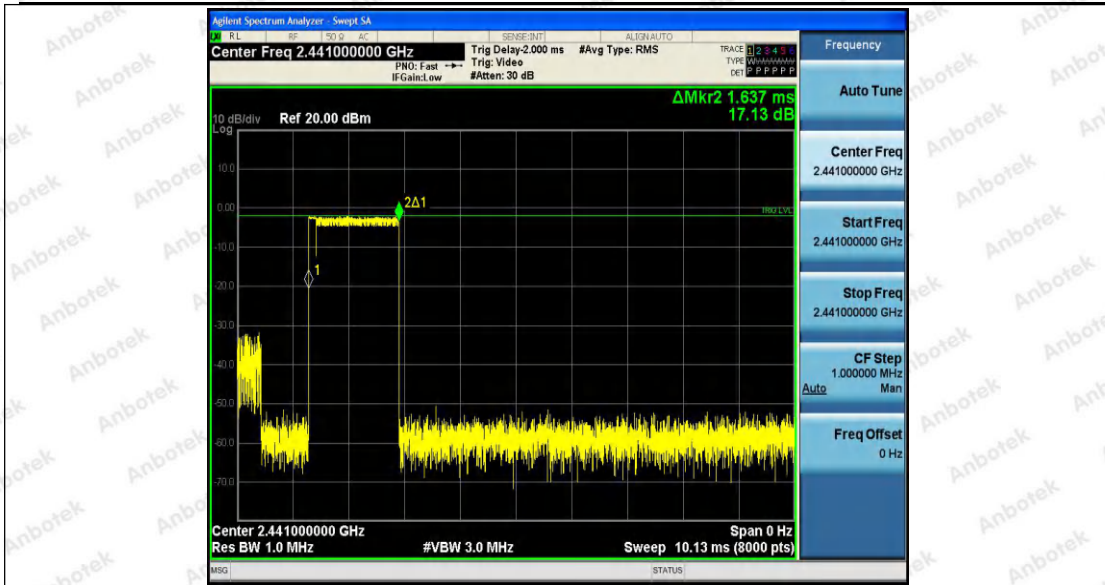
2DH3\_Ant1\_Hop

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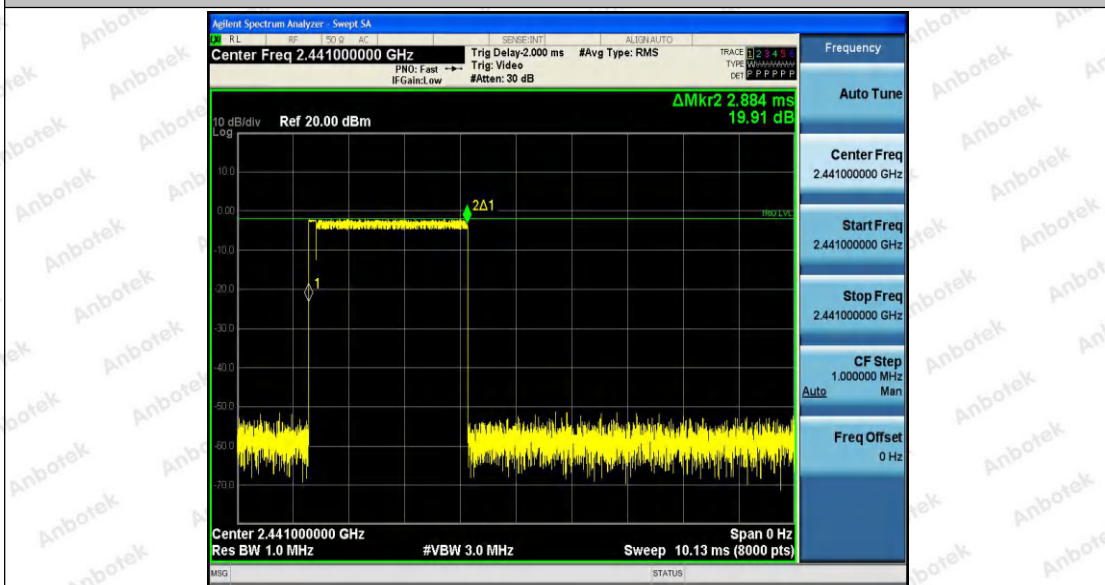
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2DH5\_Ant1\_Hop



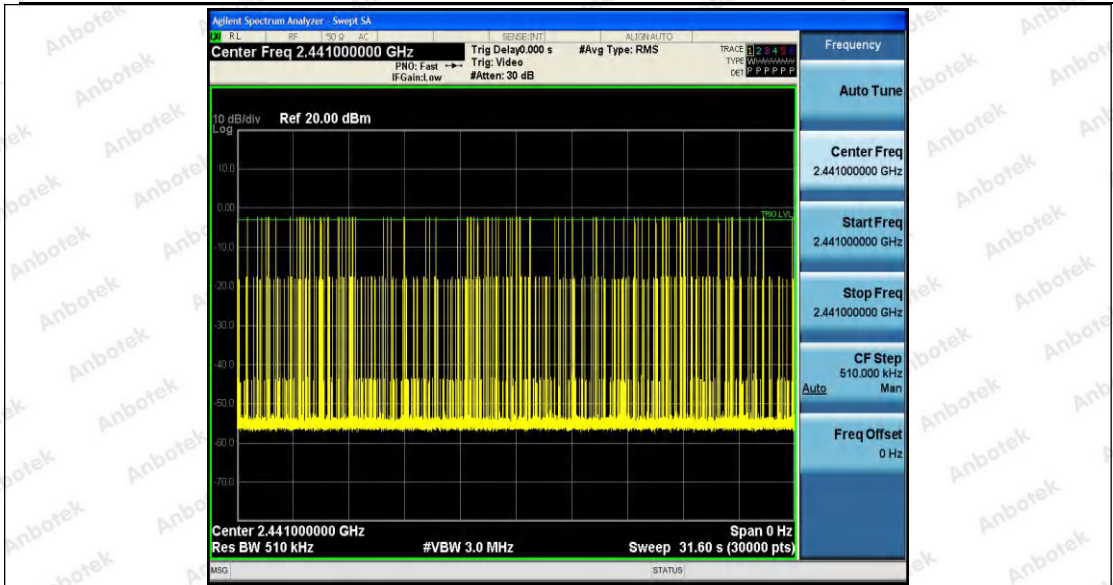
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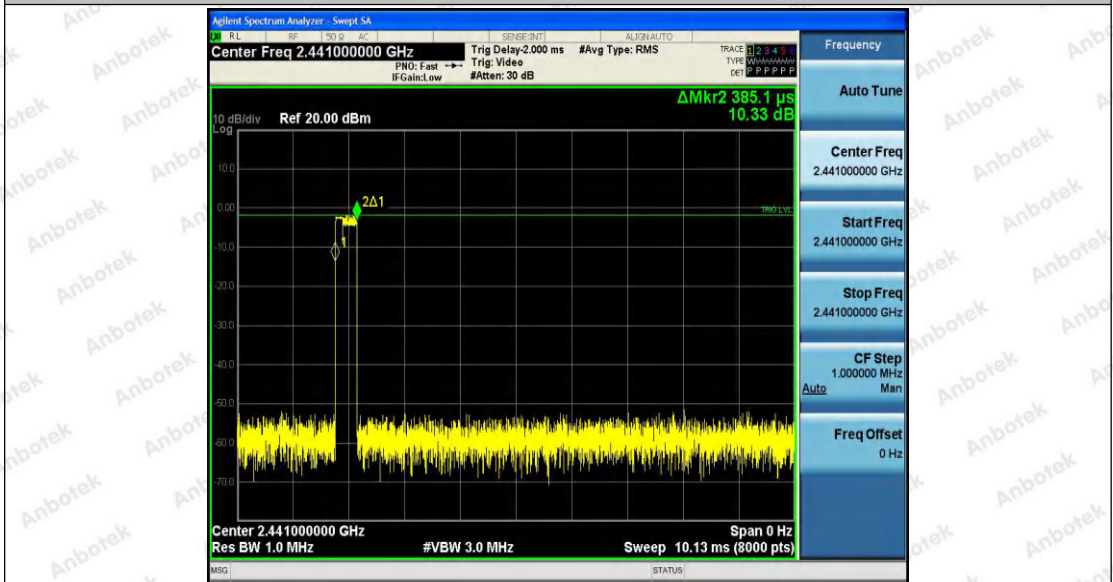
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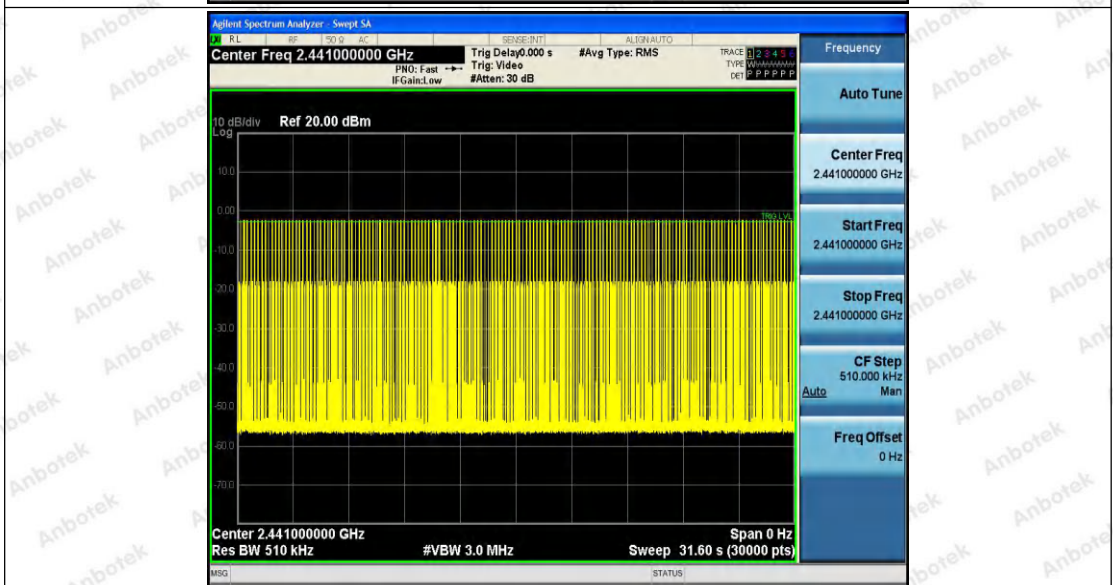




3DH1\_Ant1\_Hop



3DH1\_Ant1\_Hop



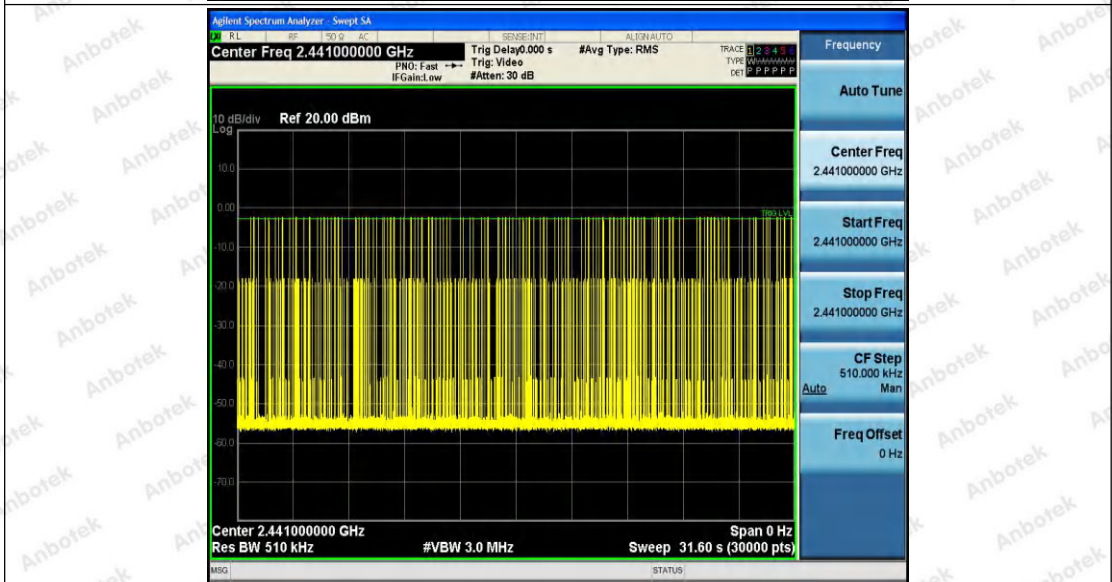
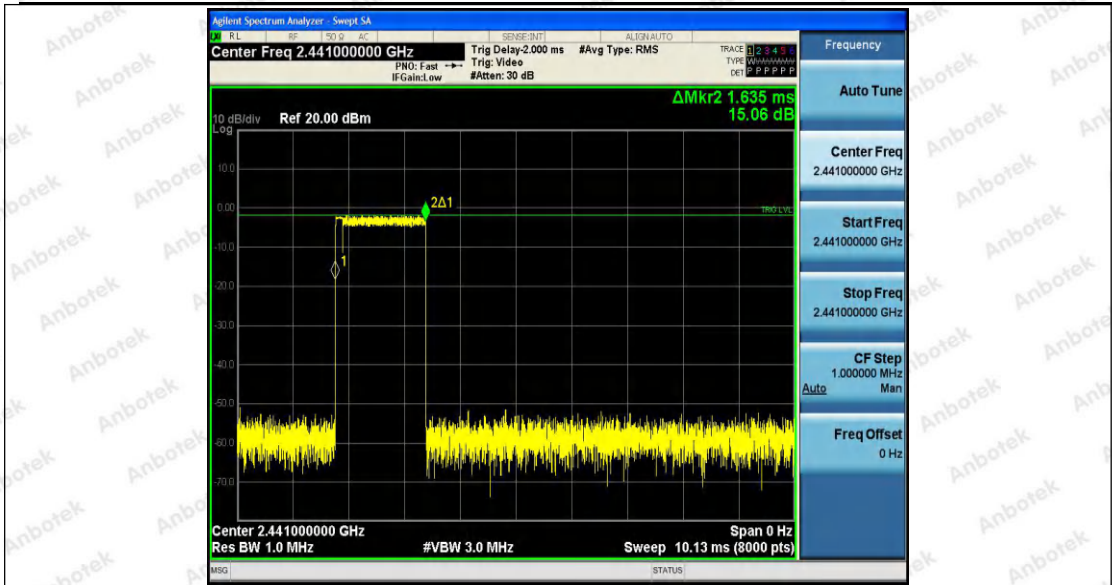
3DH3\_Ant1\_Hop

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### 3DH5\_Ant1\_Hop



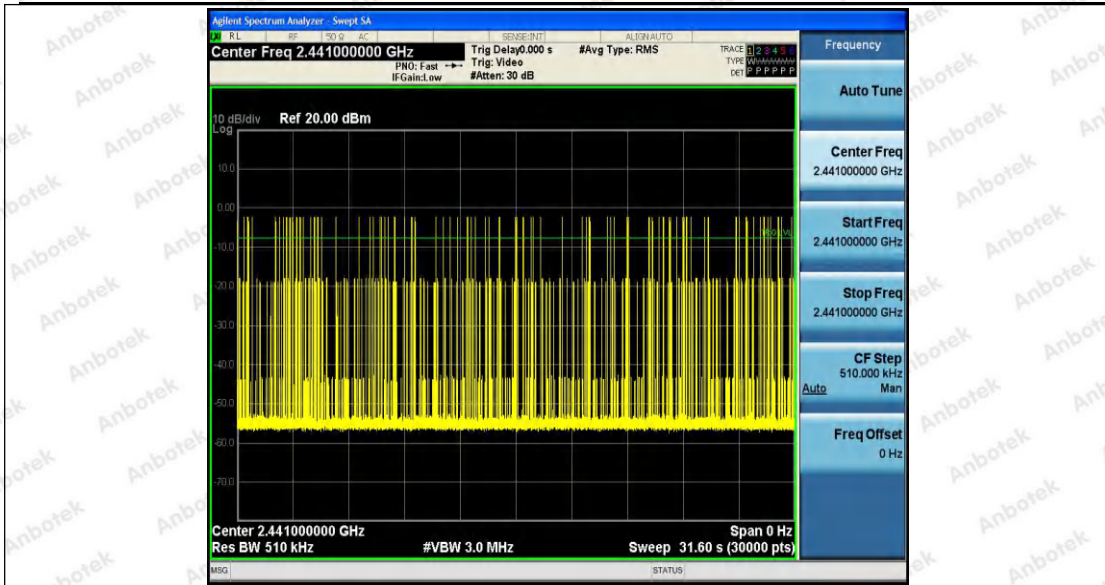
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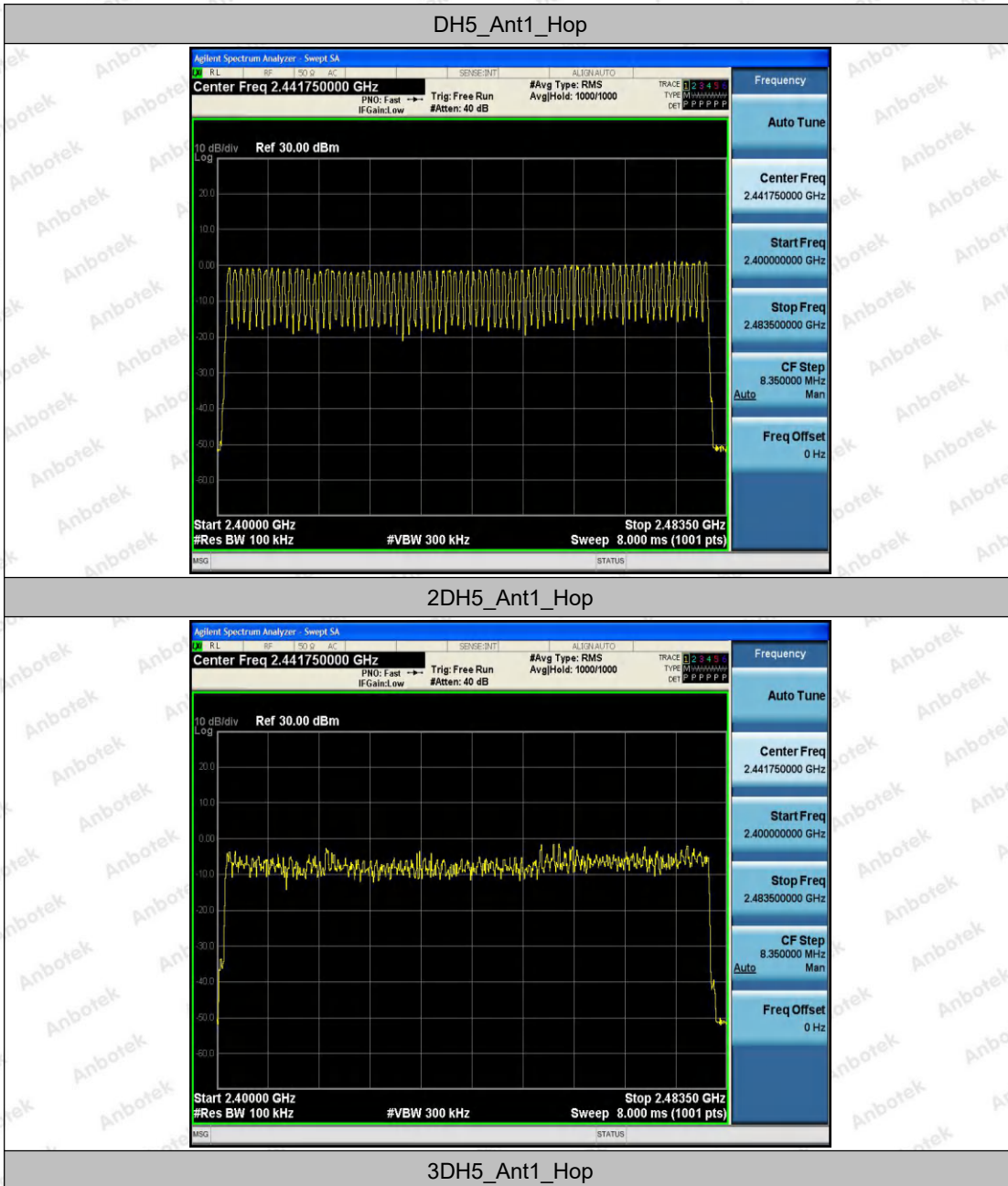


## Appendix F: Number of hopping channels

### 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

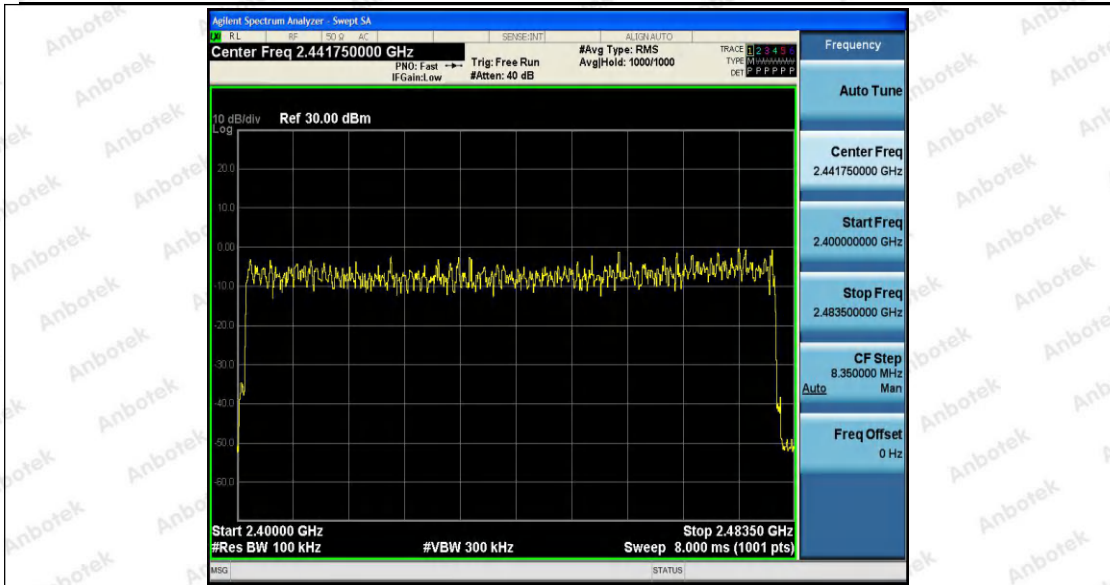


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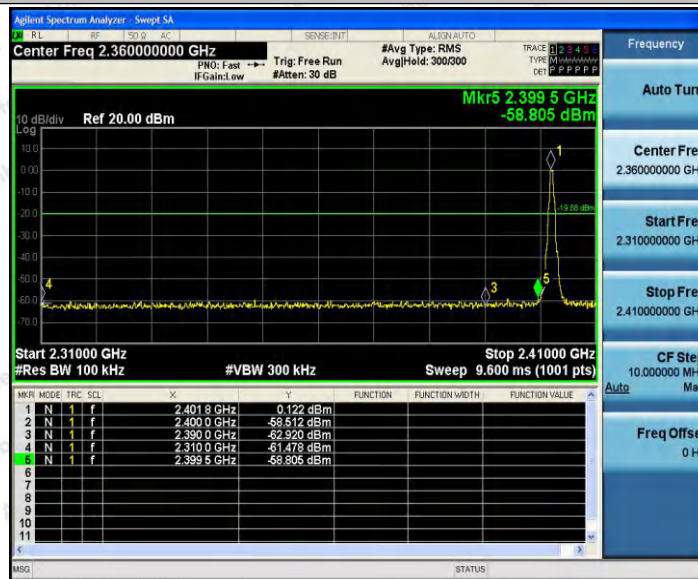
## Appendix G: Band edge measurements

### Test Result

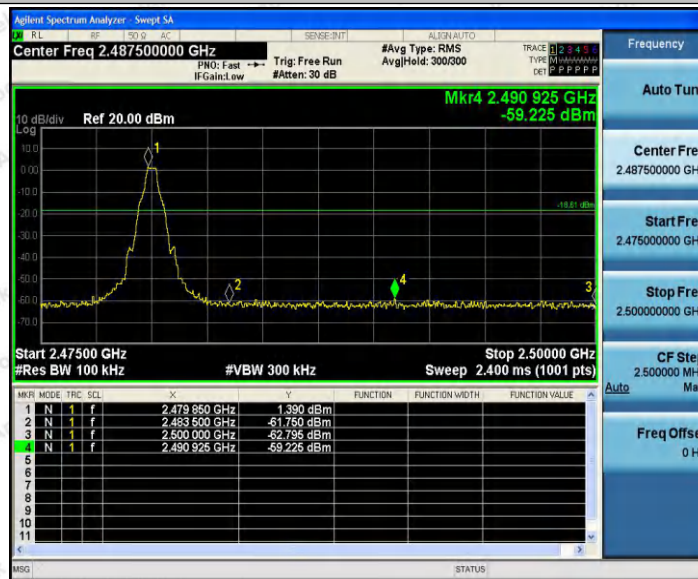
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.12	-58.81	≤-19.88	PASS
		High	2480	1.39	-59.23	≤-18.61	PASS
		Low	Hop	-0.49	-58.19	≤-20.49	PASS
		High	Hop	0.74	-62.65	≤-19.26	PASS
2DH5	Ant1	Low	2402	-1.04	-56.14	≤-21.04	PASS
		High	2480	-1.90	-58.3	≤-21.9	PASS
		Low	Hop	-4.65	-58.75	≤-24.65	PASS
		High	Hop	-1.97	-62.98	≤-21.97	PASS
3DH5	Ant1	Low	2402	-1.12	-56.4	≤-21.12	PASS
		High	2480	-0.40	-59.66	≤-20.4	PASS
		Low	Hop	-4.64	-59.06	≤-24.64	PASS
		High	Hop	-2.34	-61.85	≤-22.34	PASS

## Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop

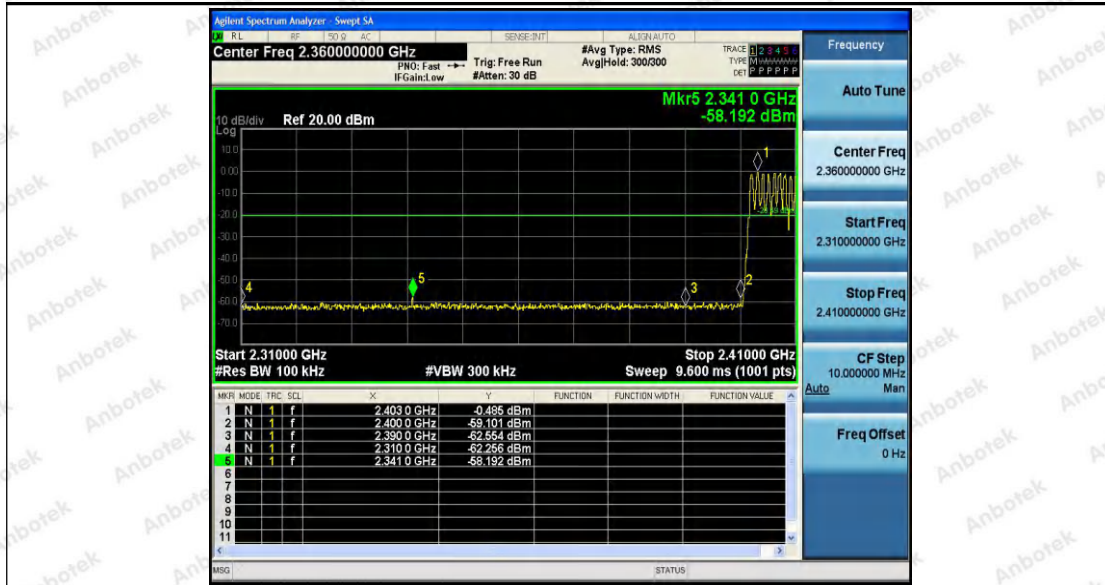
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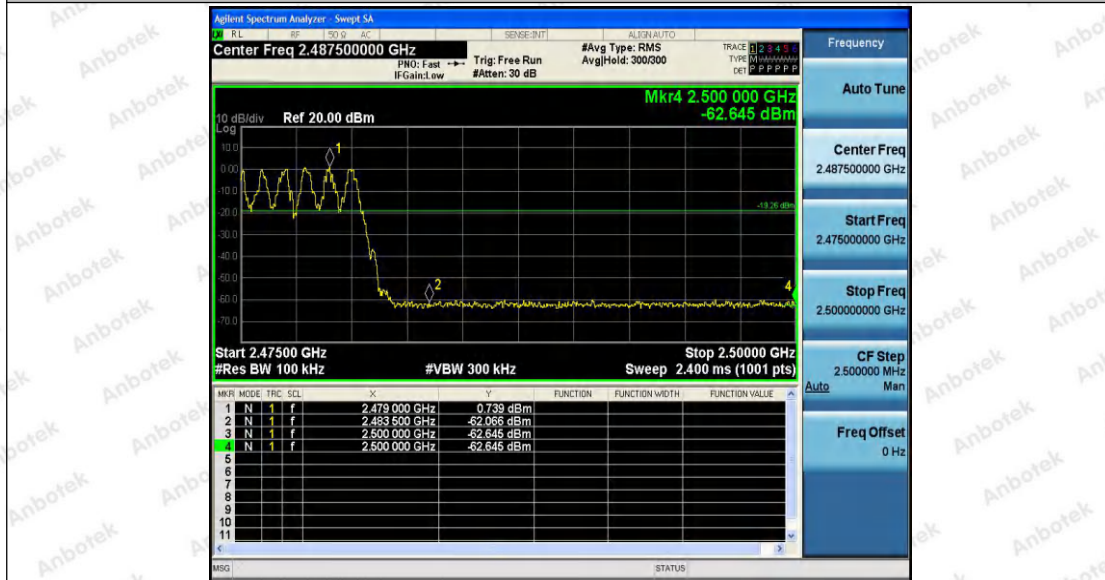
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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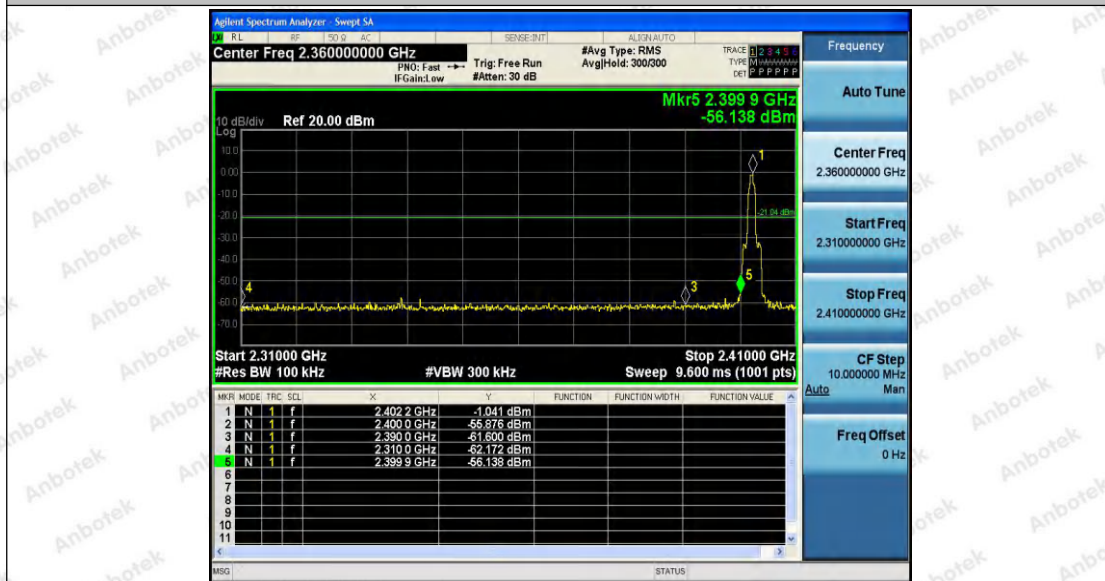




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



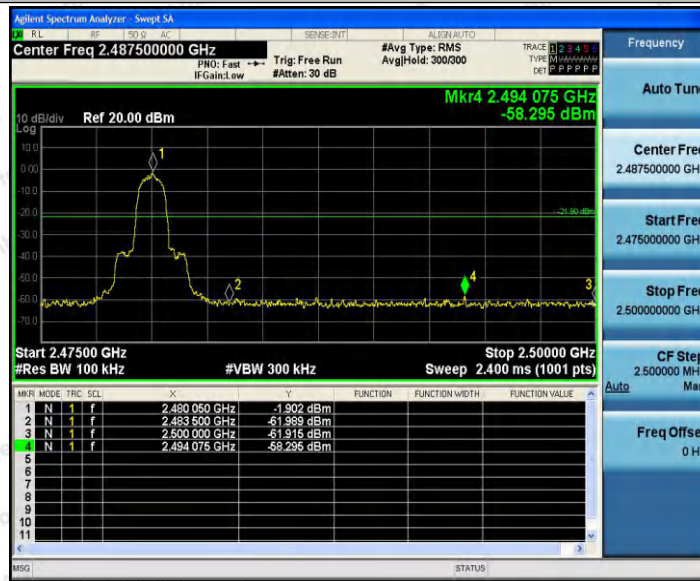
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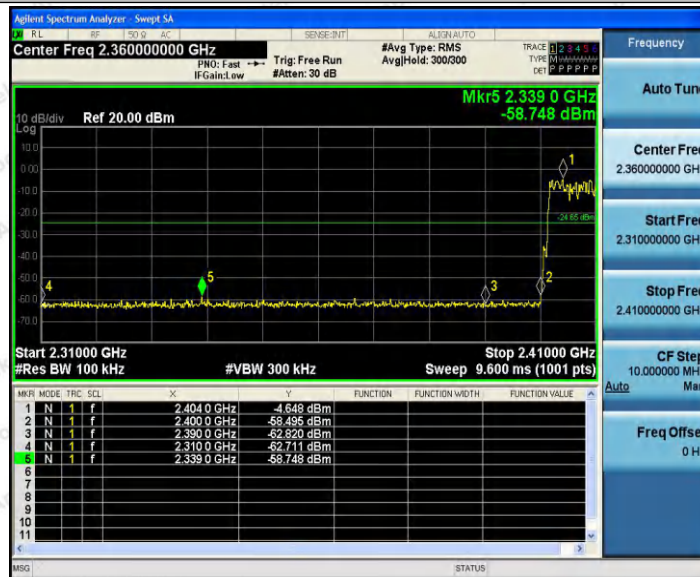
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2DH5\_Ant1\_High\_2480



2DH5\_Ant1\_Low\_Hop



2DH5\_Ant1\_High\_Hop

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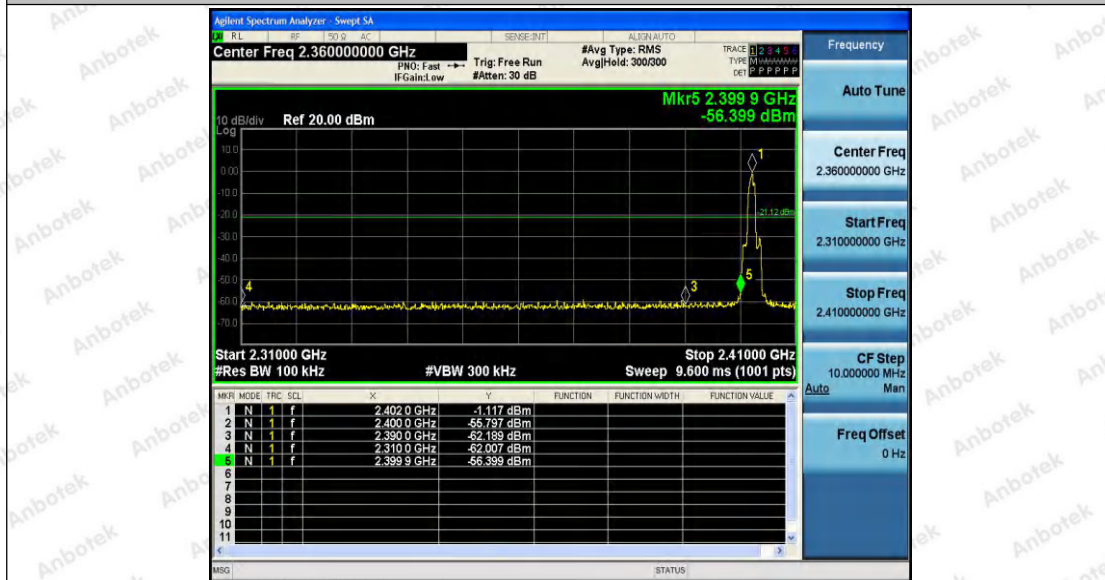
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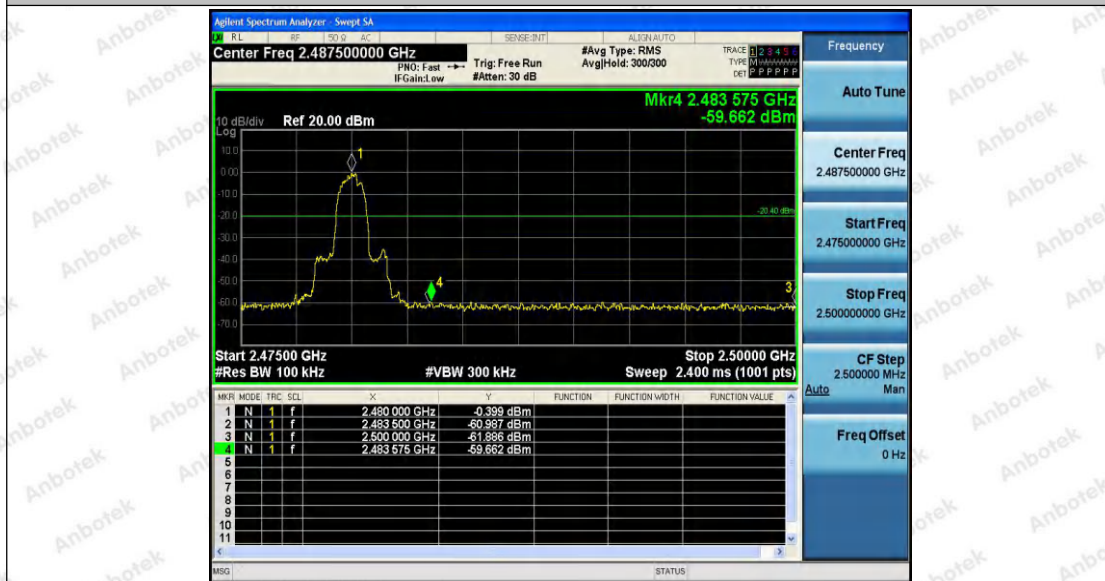
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3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



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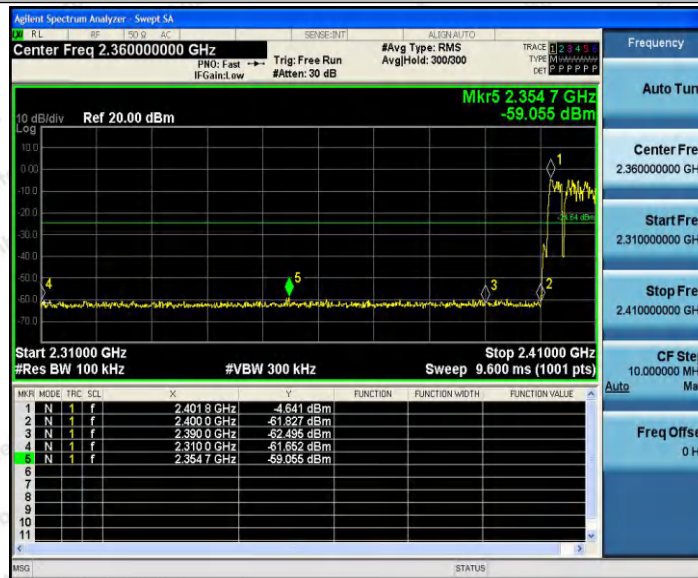
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

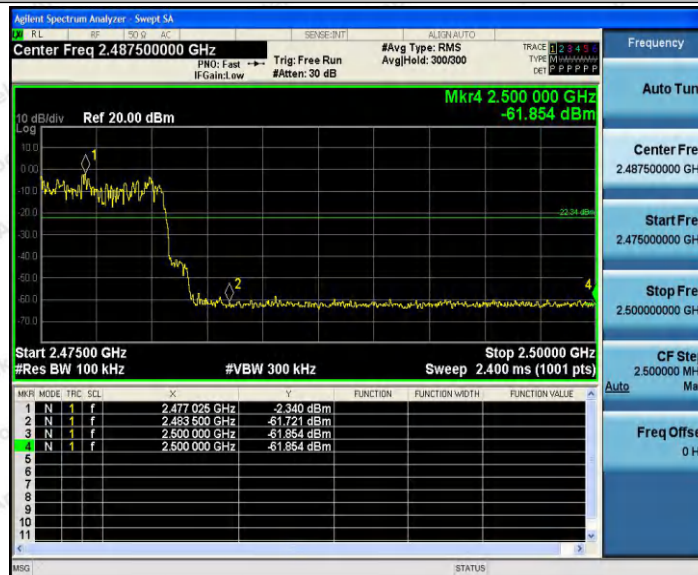
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### 3DH5\_Ant1\_Low\_Hop



### 3DH5\_Ant1\_High\_Hop



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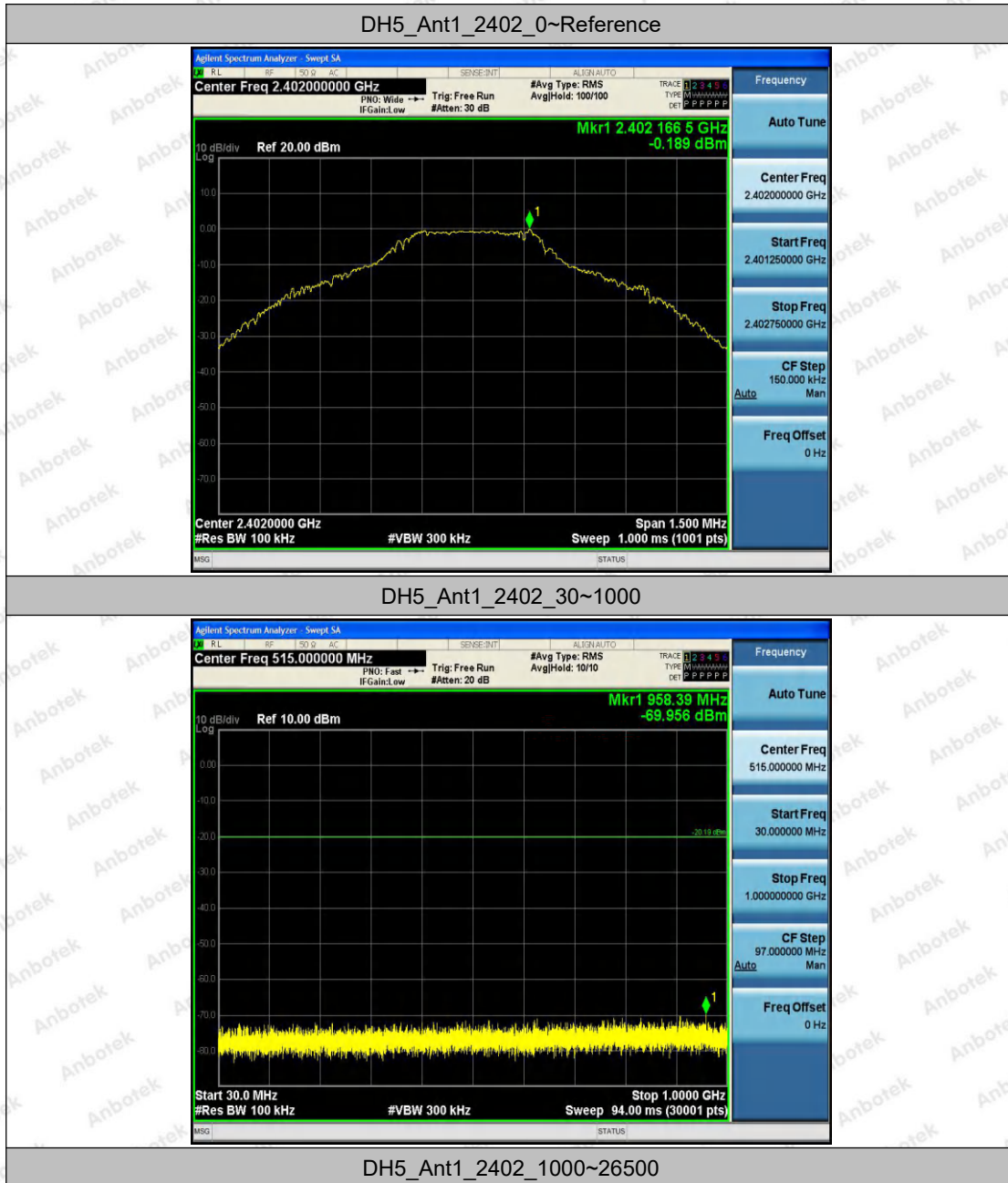
## Appendix H: Conducted Spurious Emission

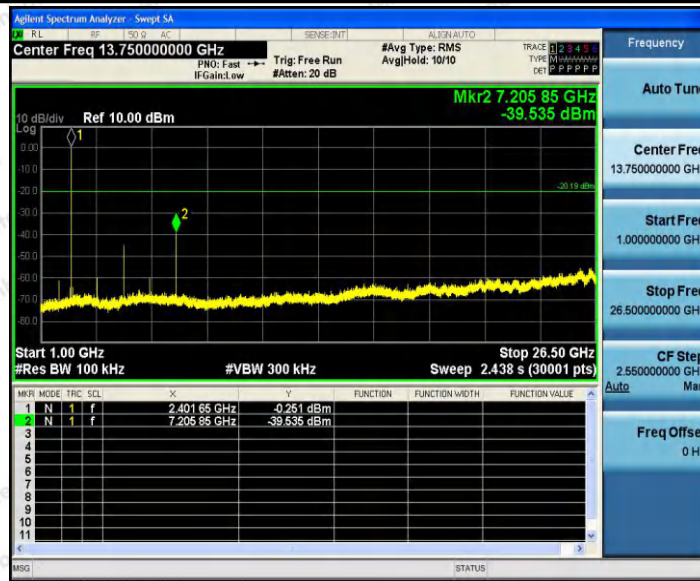
### Test Result

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	-69.96	≤-20.19	PASS
			1000~26500	-0.19	-39.54	≤-20.19	PASS
		2441	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-70.18	≤-21.25	PASS
			1000~26500	-1.25	-43.02	≤-21.25	PASS
		2480	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-69.89	≤-19.2	PASS
			1000~26500	0.80	-46	≤-19.2	PASS
2DH5	Ant1	2402	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-70.43	≤-21.53	PASS
			1000~26500	-1.53	-41.16	≤-21.53	PASS
		2441	Reference	-3.25	-3.25	---	PASS
			30~1000	-3.25	-69.75	≤-23.25	PASS
			1000~26500	-3.25	-44.93	≤-23.25	PASS
		2480	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-70.04	≤-20.34	PASS
			1000~26500	-0.34	-48.89	≤-20.34	PASS
3DH5	Ant1	2402	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-69.81	≤-21.12	PASS
			1000~26500	-1.12	-43.85	≤-21.12	PASS
		2441	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-70.63	≤-23.26	PASS
			1000~26500	-3.26	-45.91	≤-23.26	PASS
		2480	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-69.92	≤-20.14	PASS
			1000~26500	-0.14	-49.06	≤-20.14	PASS



## Test Graphs

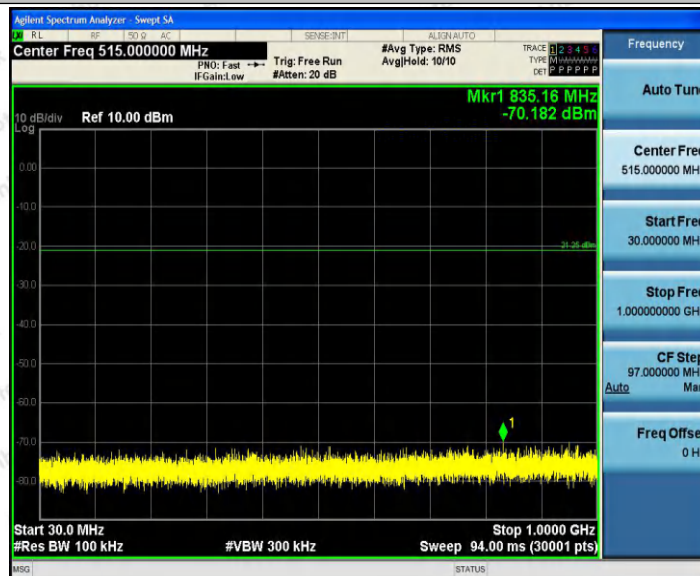




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



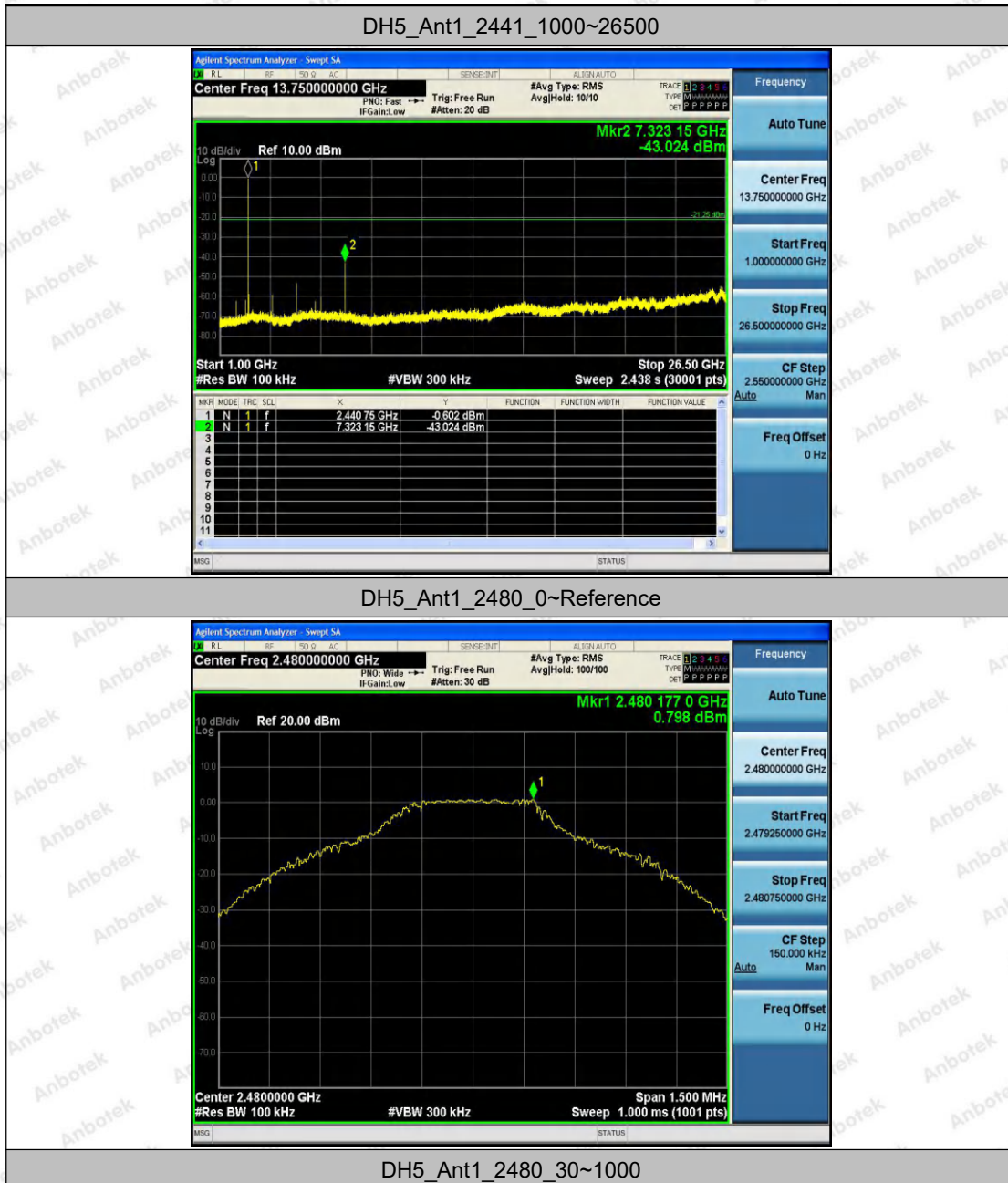
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

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400-003-0500  
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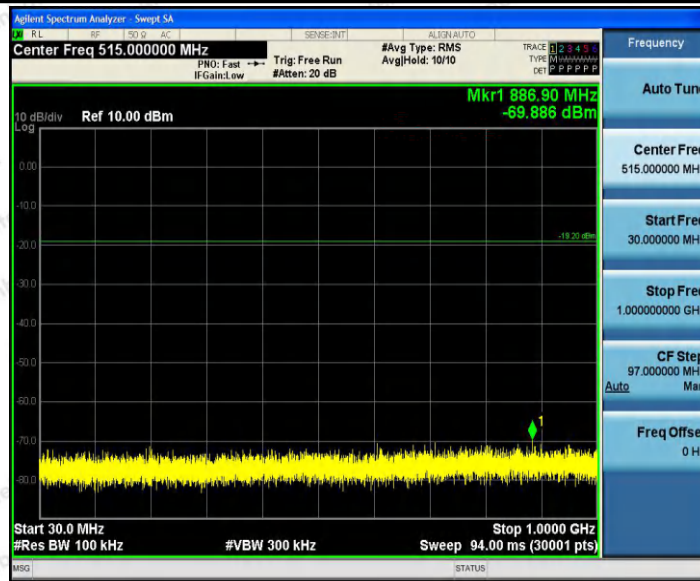


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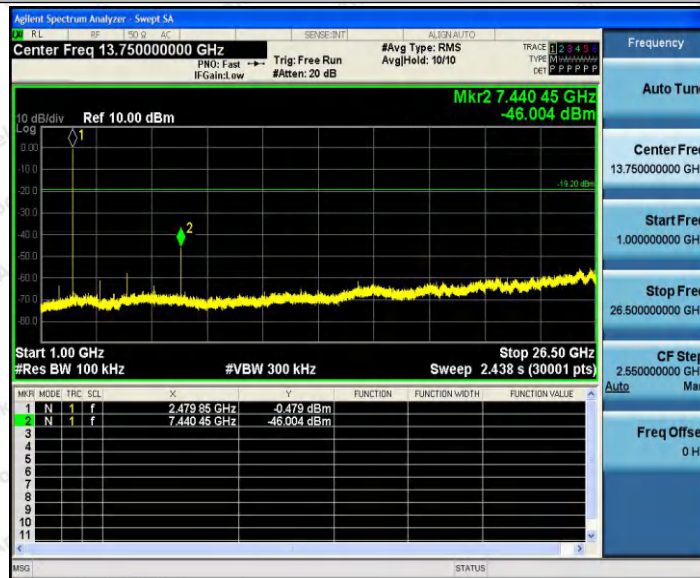
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



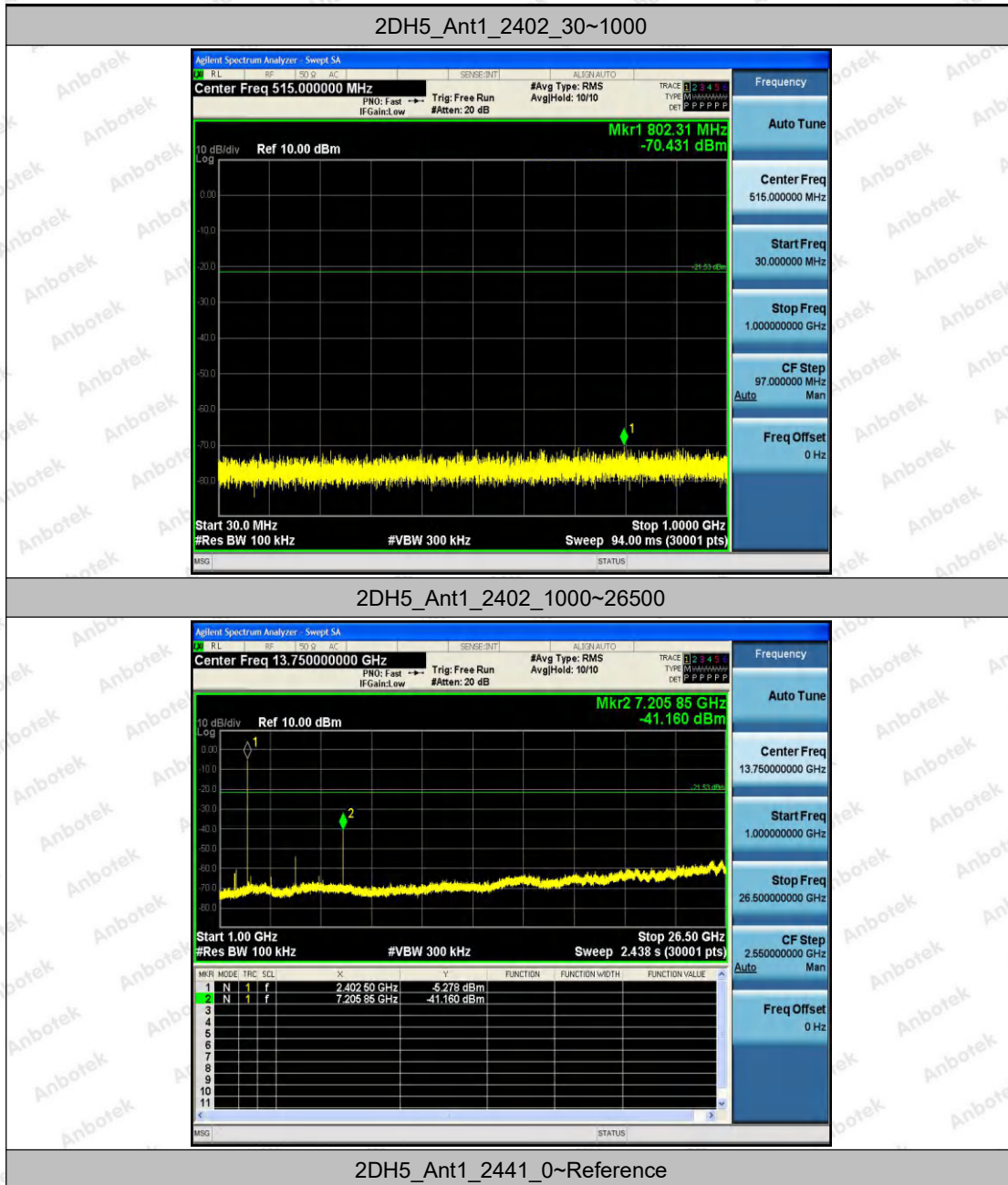
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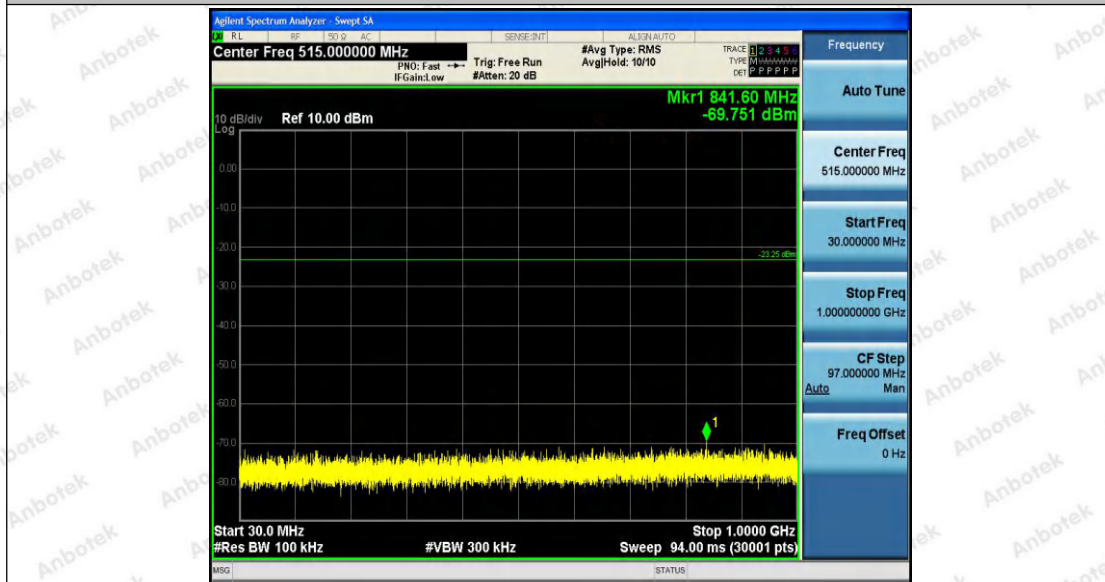
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

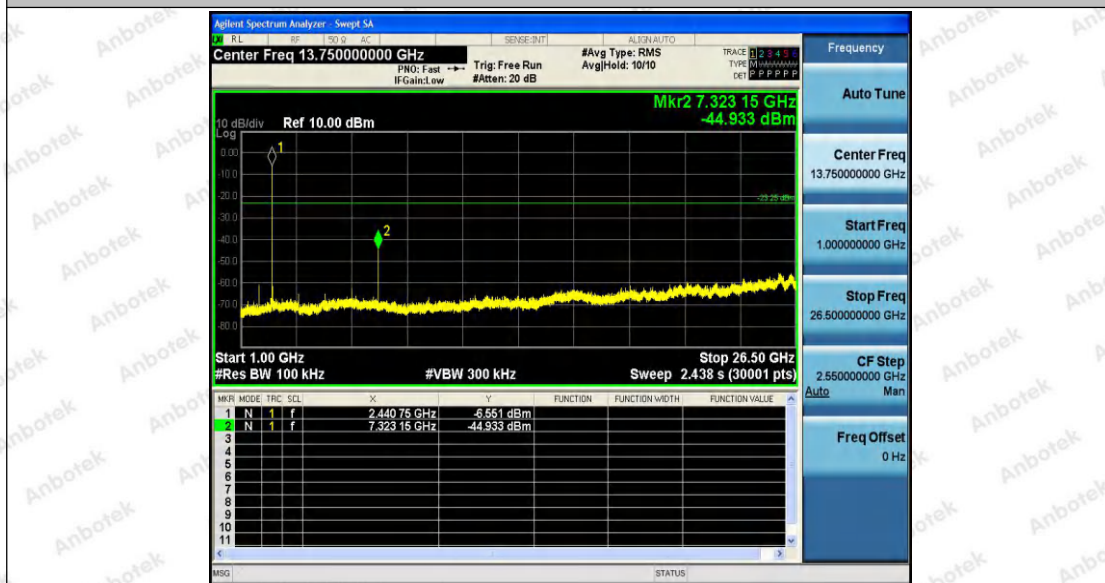
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



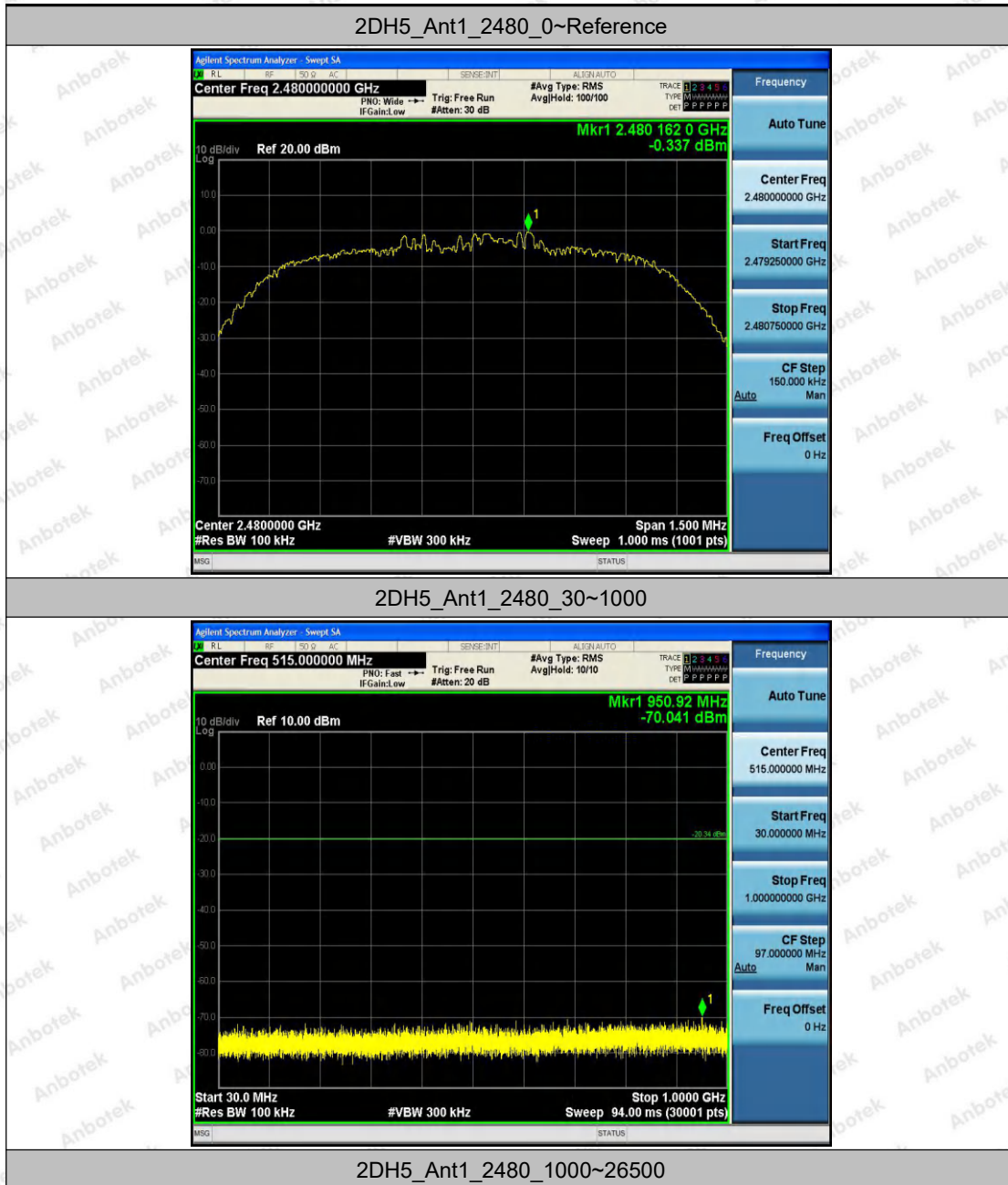
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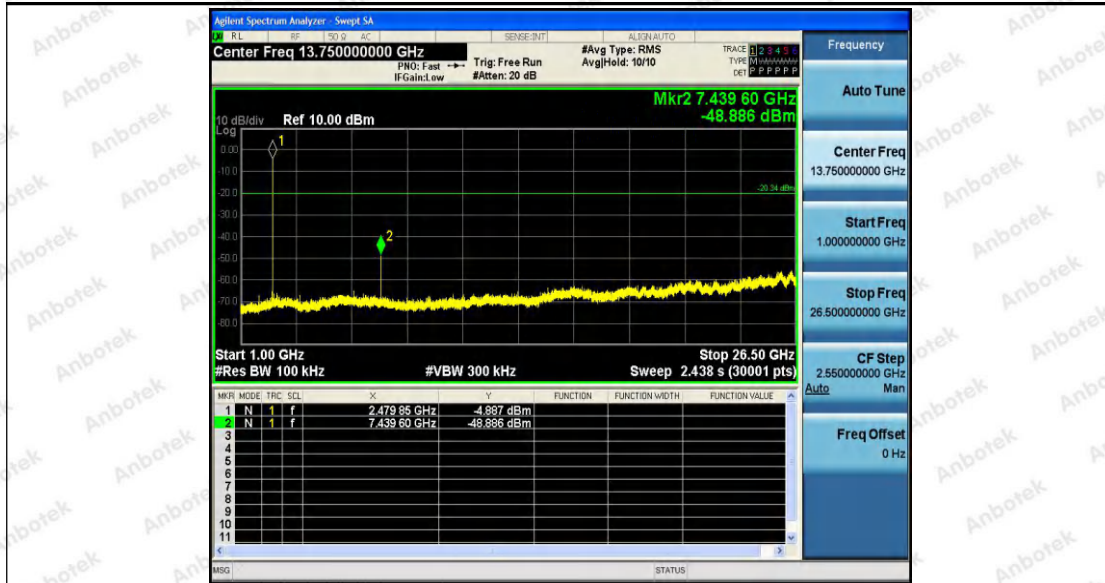




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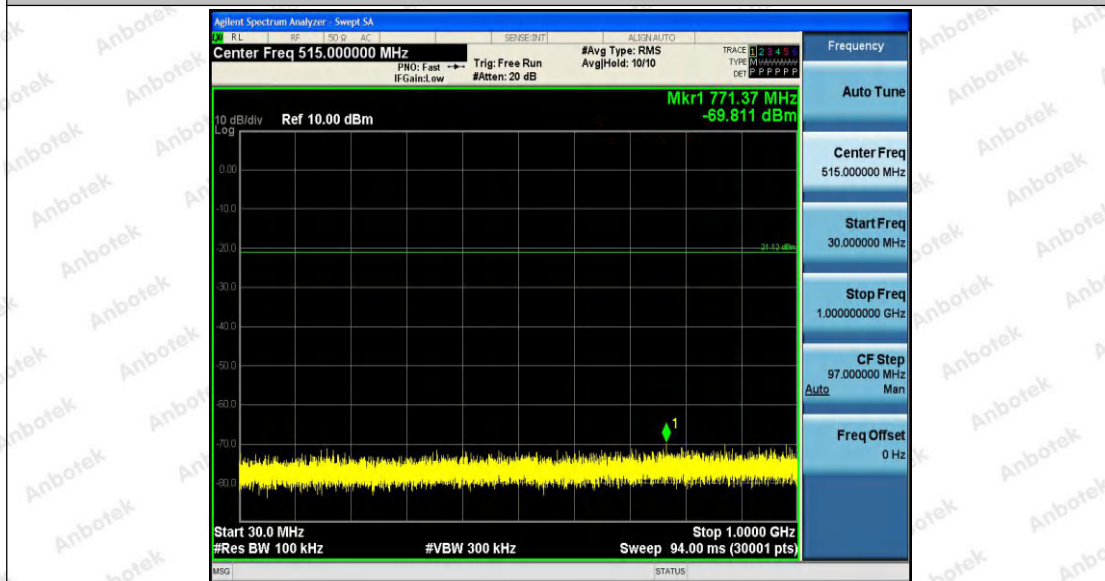
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3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

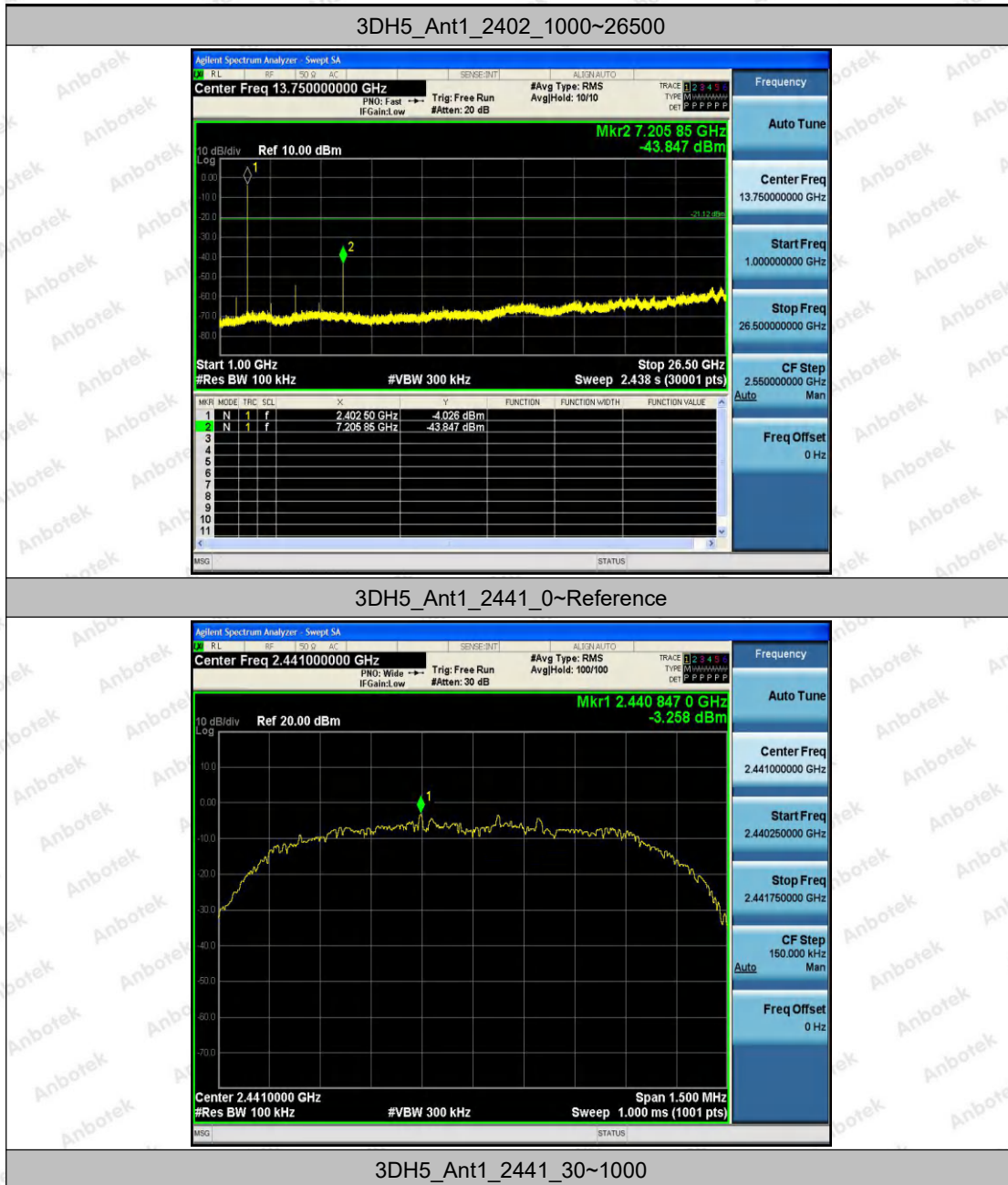


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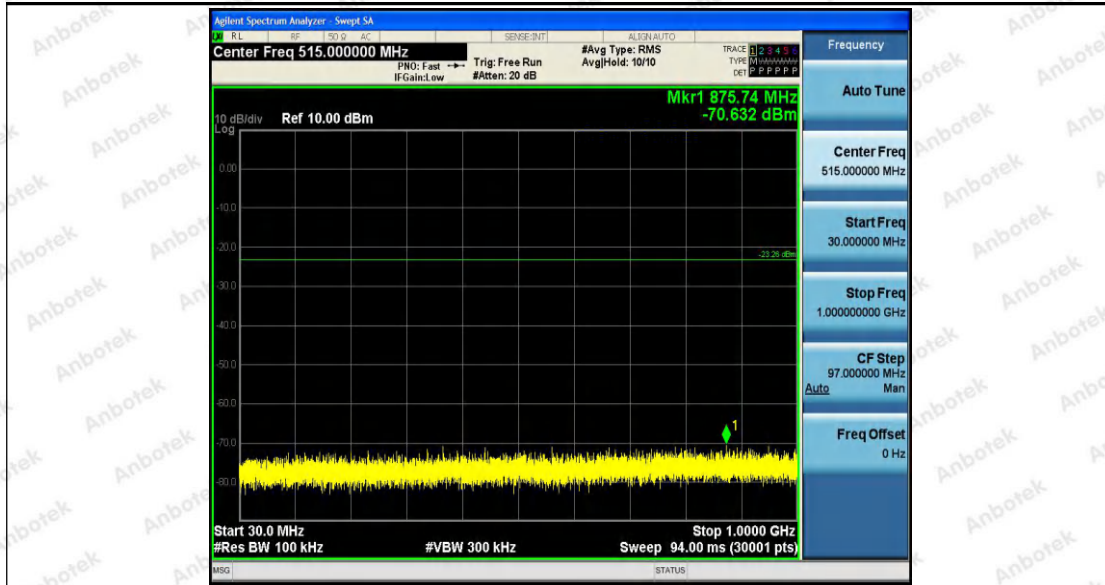




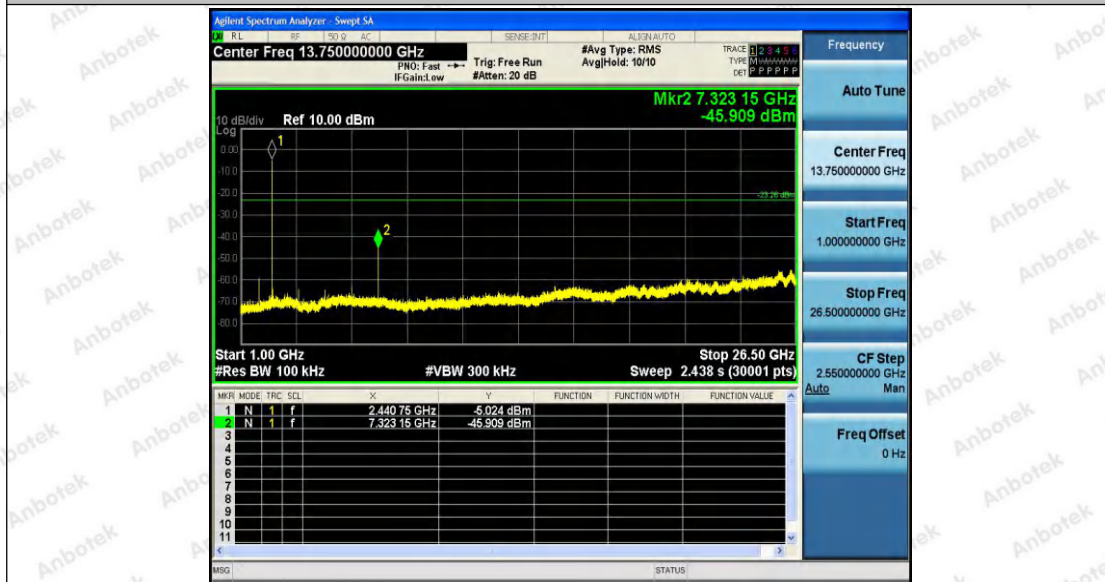
**Shenzhen Anbotek Compliance Laboratory Limited**

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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



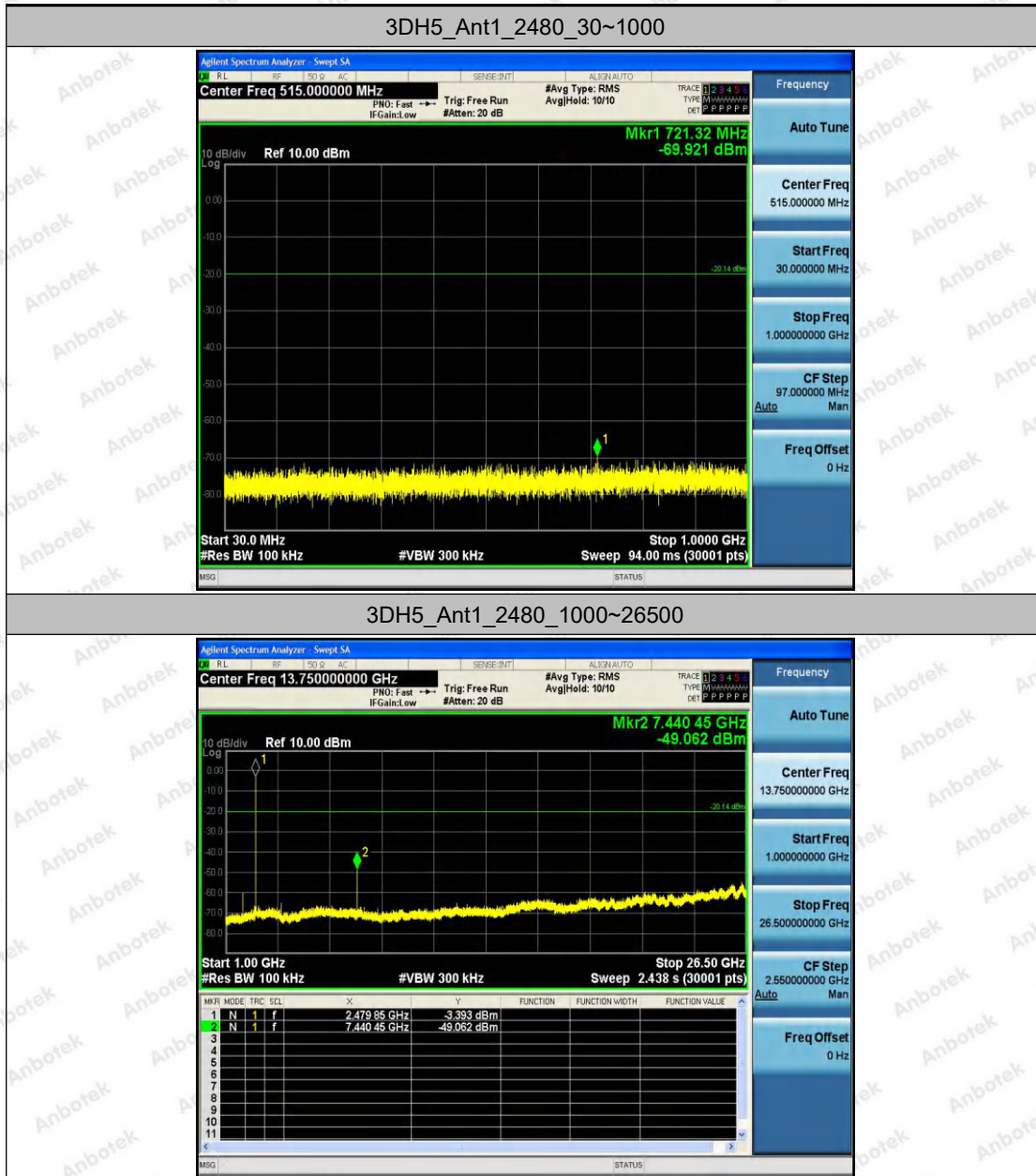
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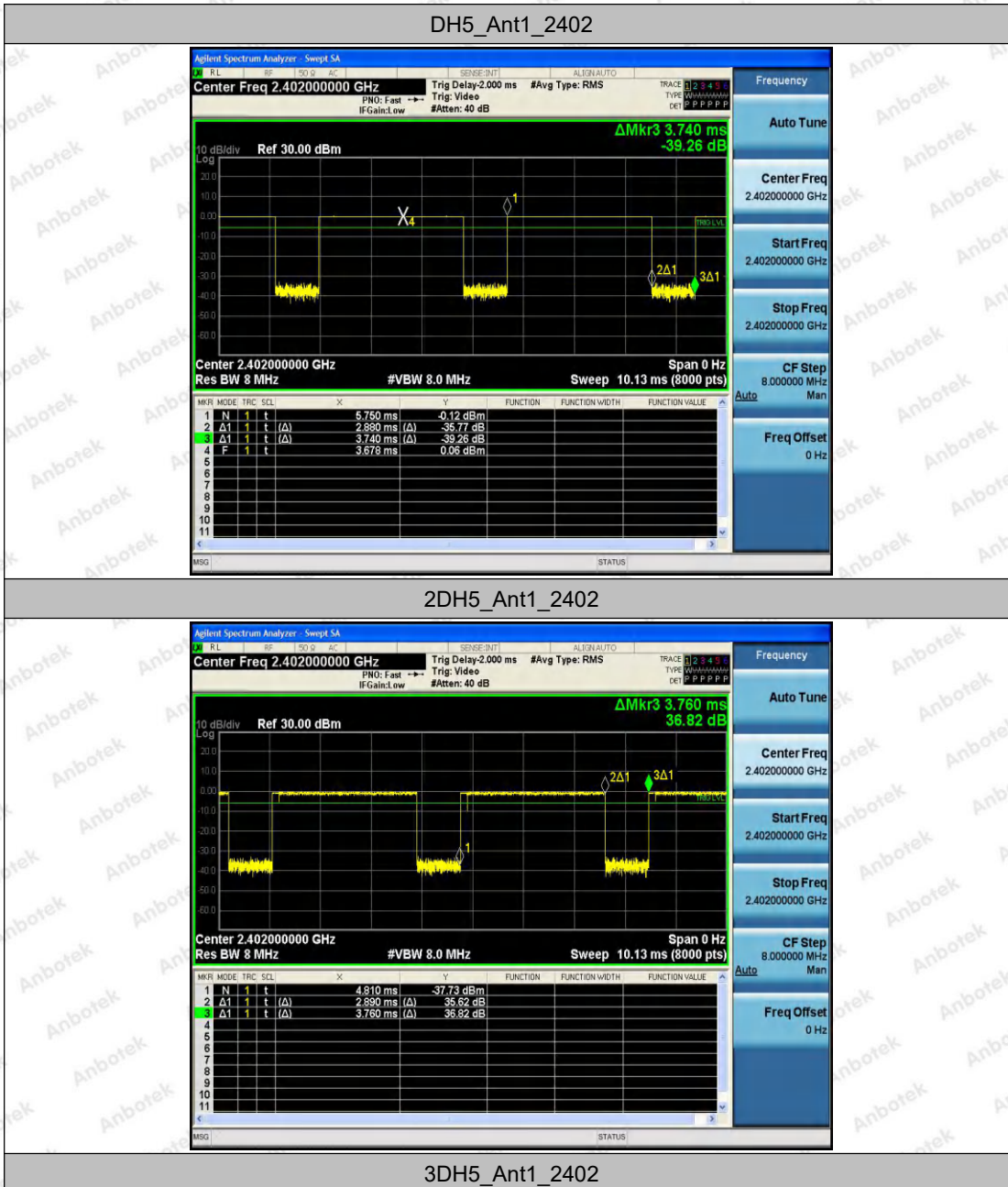
## Appendix I: Duty Cycle

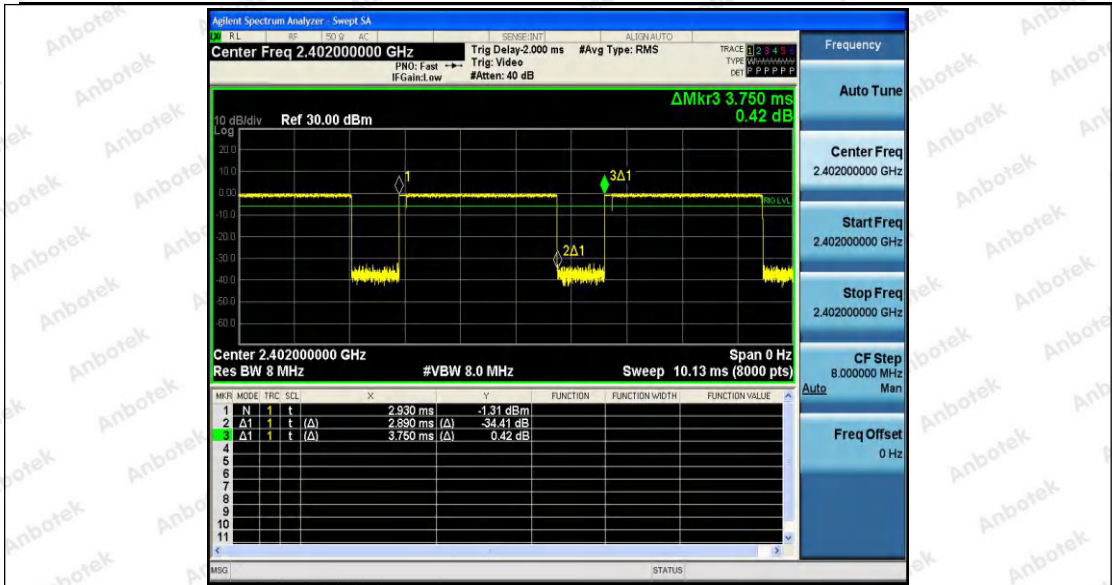
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.76	0.768 6	76.86	1.14	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS



## Test Graphs





---End---