

## Appendix Test Data

Report No.:	18220WC20034901	Test Sample No.:	1-2-2
Start Test Date:	2022.2.24	Finish Test Date:	2022.3.3
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	0.951	2401.532	2402.483	---	PASS
		2441	0.942	2440.532	2441.474	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.323	2401.331	2402.654	---	PASS
		2441	1.323	2440.331	2441.654	---	PASS
		2480	1.263	2479.361	2480.624	---	PASS
3DH5	Ant1	2402	1.338	2401.322	2402.660	---	PASS
		2441	1.293	2440.346	2441.639	---	PASS
		2480	1.332	2479.325	2480.657	---	PASS

## Test Graphs







2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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### 2DH5\_Ant1\_2480



### 3DH5\_Ant1\_2402



### 3DH5\_Ant1\_2441

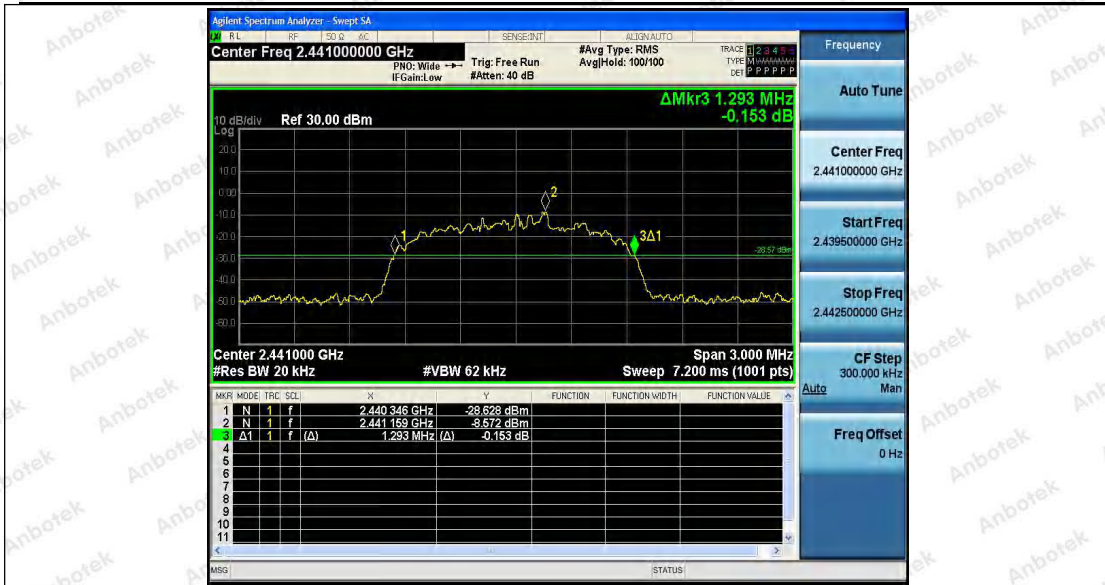
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3DH5\_Ant1\_2480



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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	0.88919	2401.55 0	2402.439	---	PASS
		2441	0.89871	2440.54 5	2441.444	---	PASS
		2480	0.88360	2479.55 1	2480.434	---	PASS
2DH5	Ant1	2402	1.1942	2401.39 6	2402.590	---	PASS
		2441	1.1887	2440.39 8	2441.587	---	PASS
		2480	1.1910	2479.39 6	2480.587	---	PASS
3DH5	Ant1	2402	1.2075	2401.38 2	2402.590	---	PASS
		2441	1.2066	2440.38 2	2441.589	---	PASS
		2480	1.1916	2479.39 3	2480.584	---	PASS

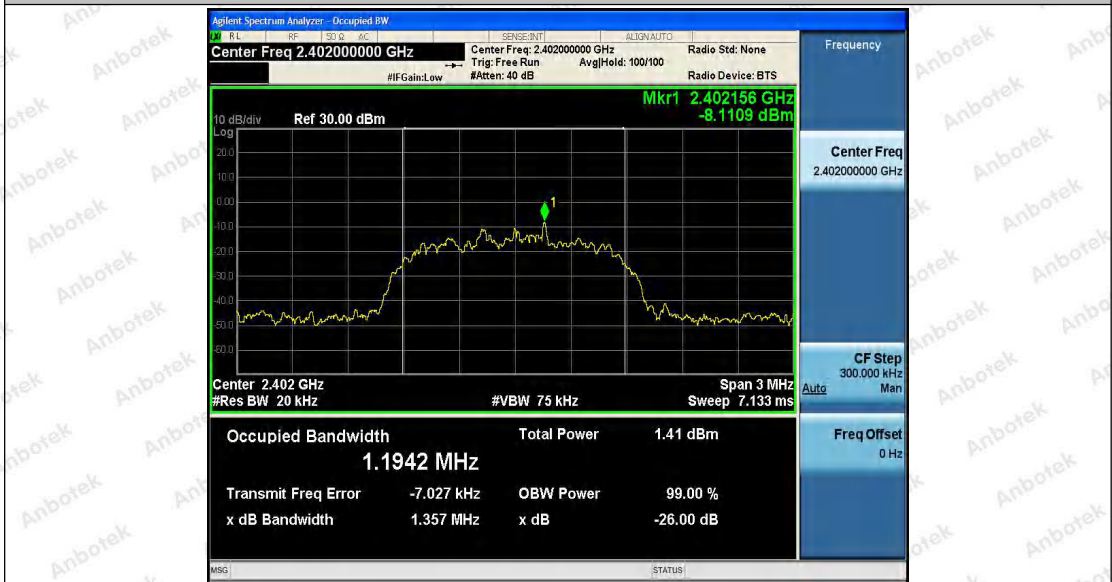


## Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



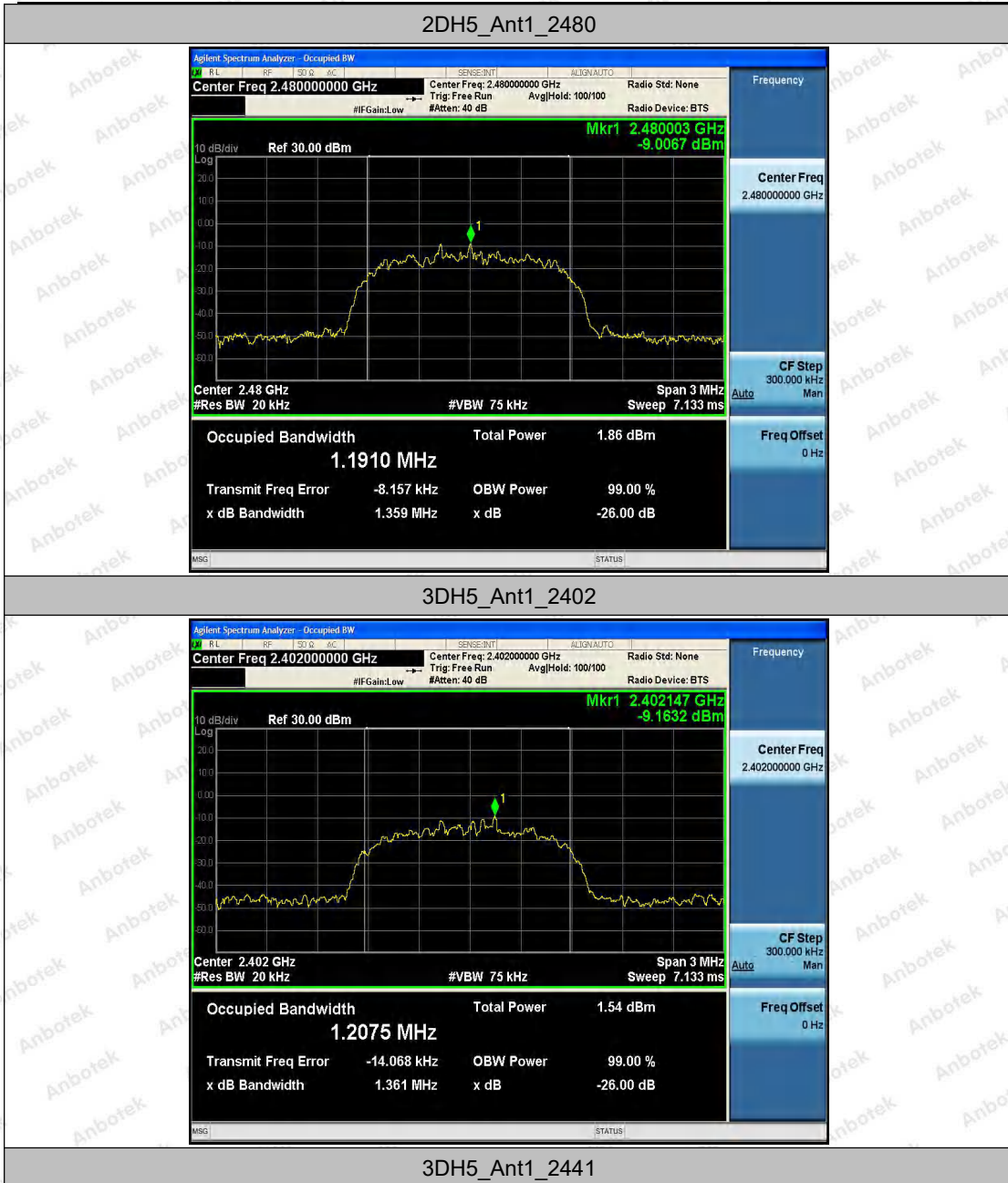
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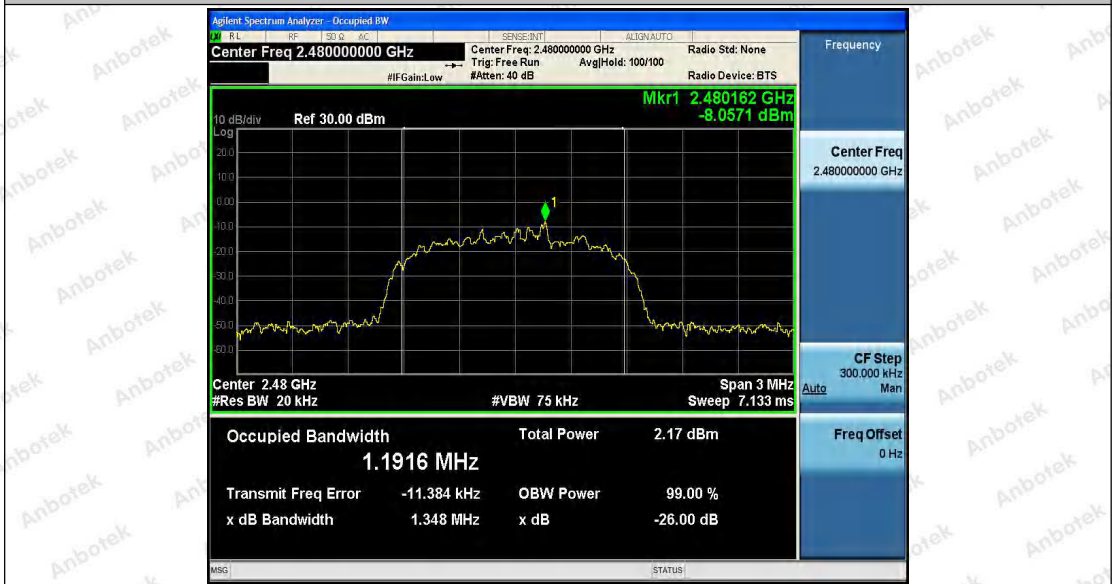
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3DH5\_Ant1\_2480



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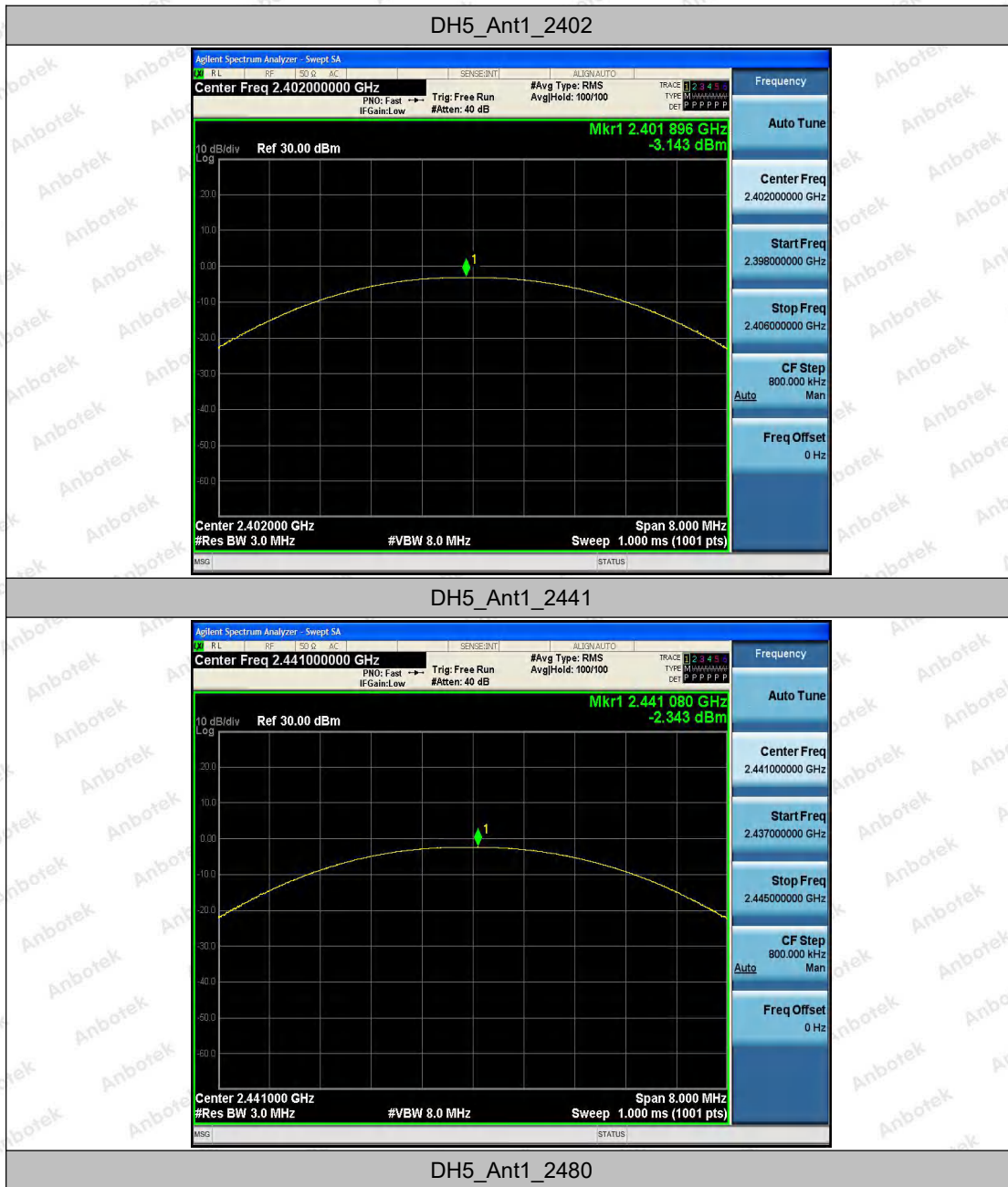


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.14	≤20.97	PASS
		2441	-2.34	≤20.97	PASS
		2480	-1.9	≤20.97	PASS
2DH5	Ant1	2402	-4.13	≤20.97	PASS
		2441	-3.07	≤20.97	PASS
		2480	-2.81	≤20.97	PASS
3DH5	Ant1	2402	-3.71	≤20.97	PASS
		2441	-2.94	≤20.97	PASS
		2480	-2.81	≤20.97	PASS

## Test Graphs



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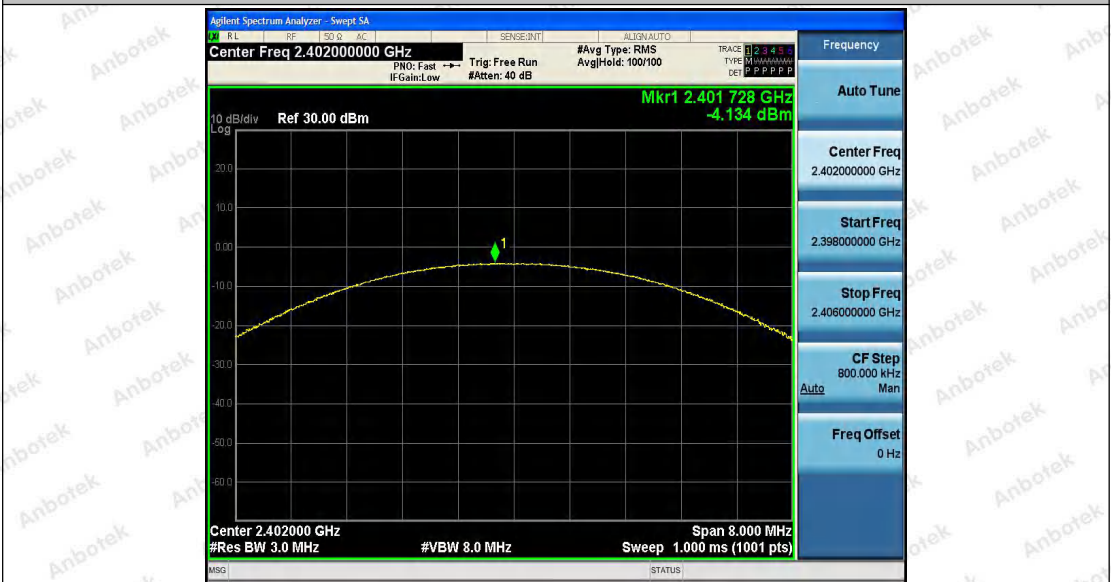
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2DH5\_Ant1\_2402



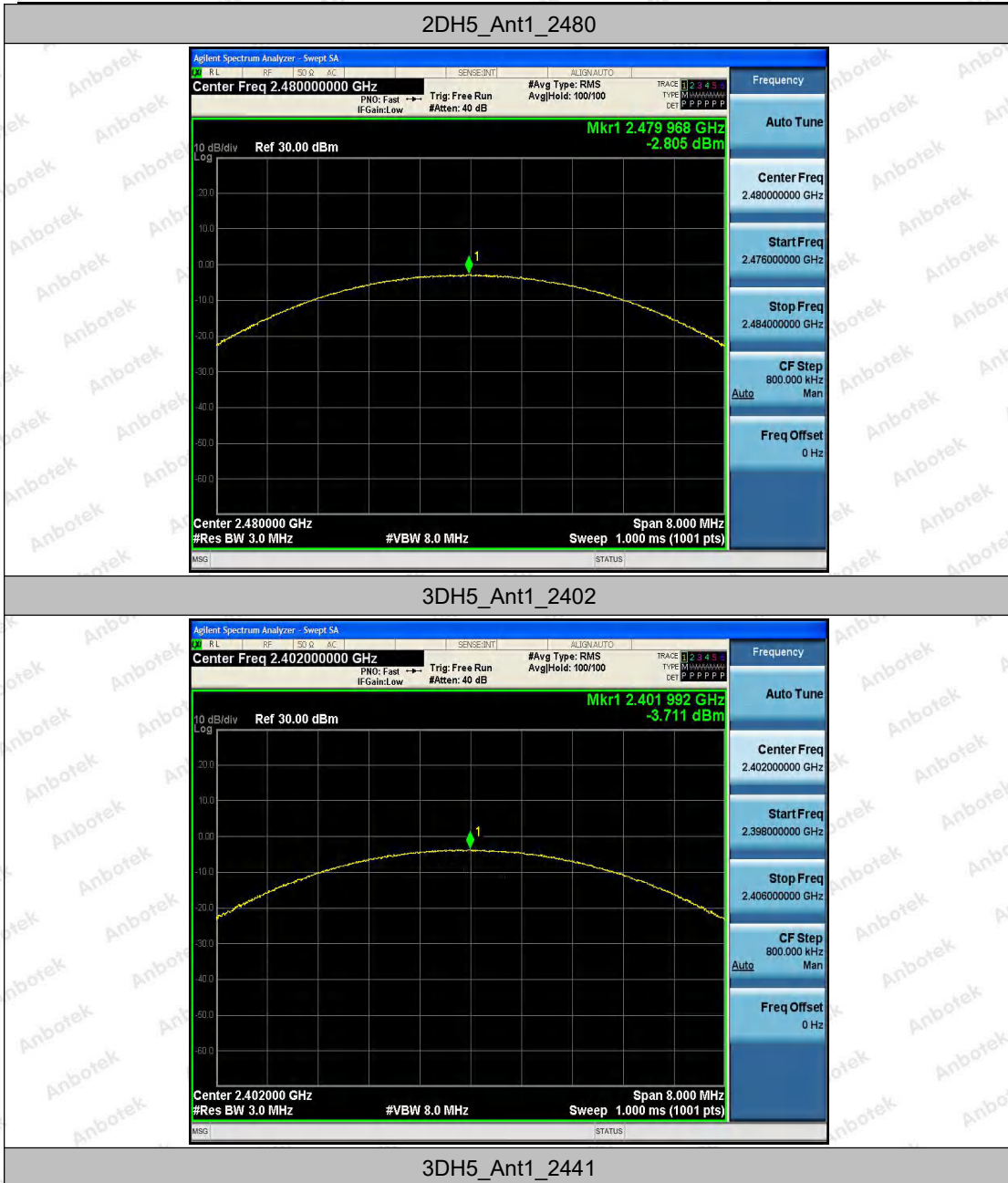
2DH5\_Ant1\_2441



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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.234	≥0.951	PASS
2DH5	Ant1	Hop	1.32	≥0.882	PASS
3DH5	Ant1	Hop	0.96	≥0.892	PASS



## Test Graphs



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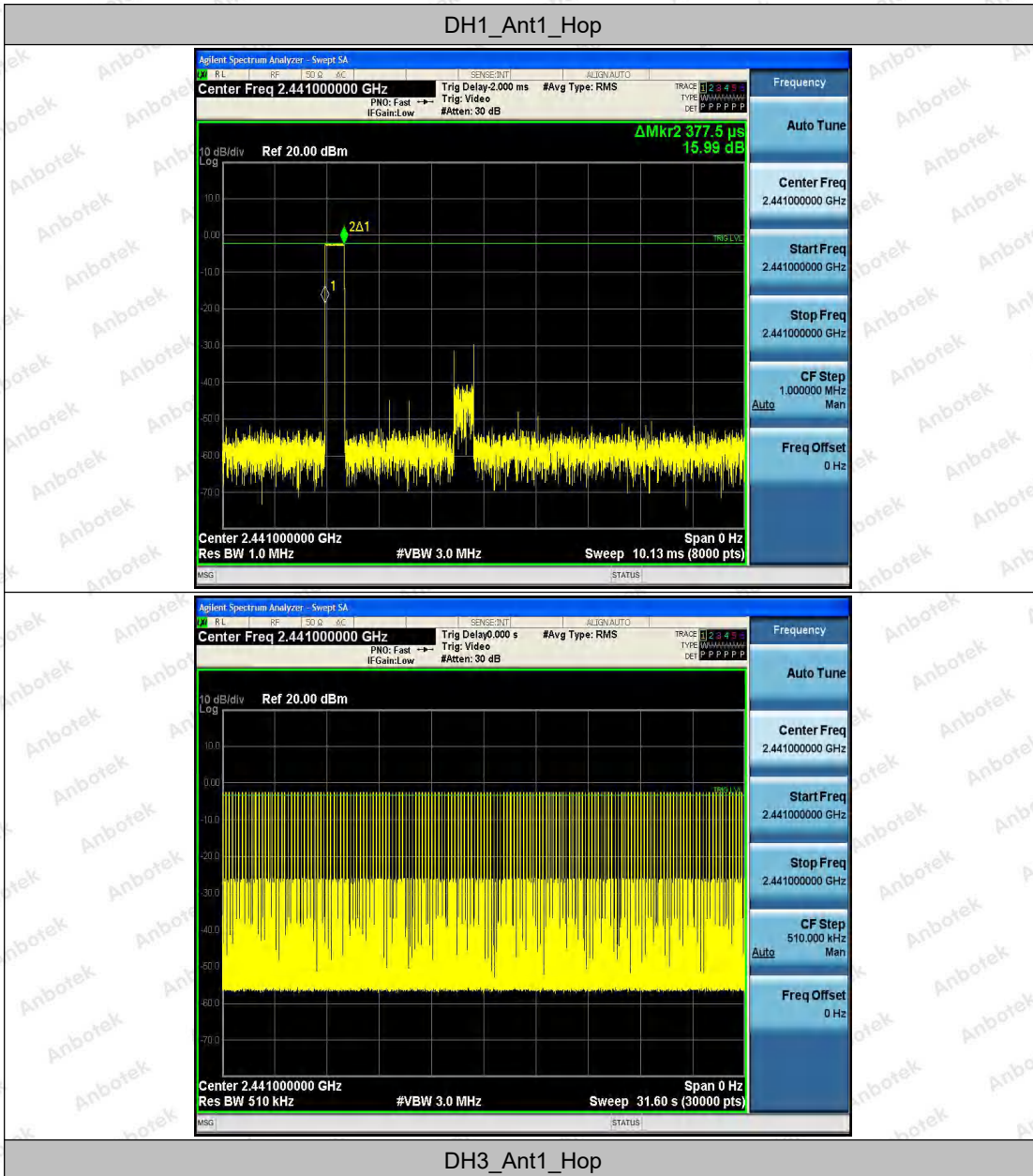


## Appendix E: Time of occupancy

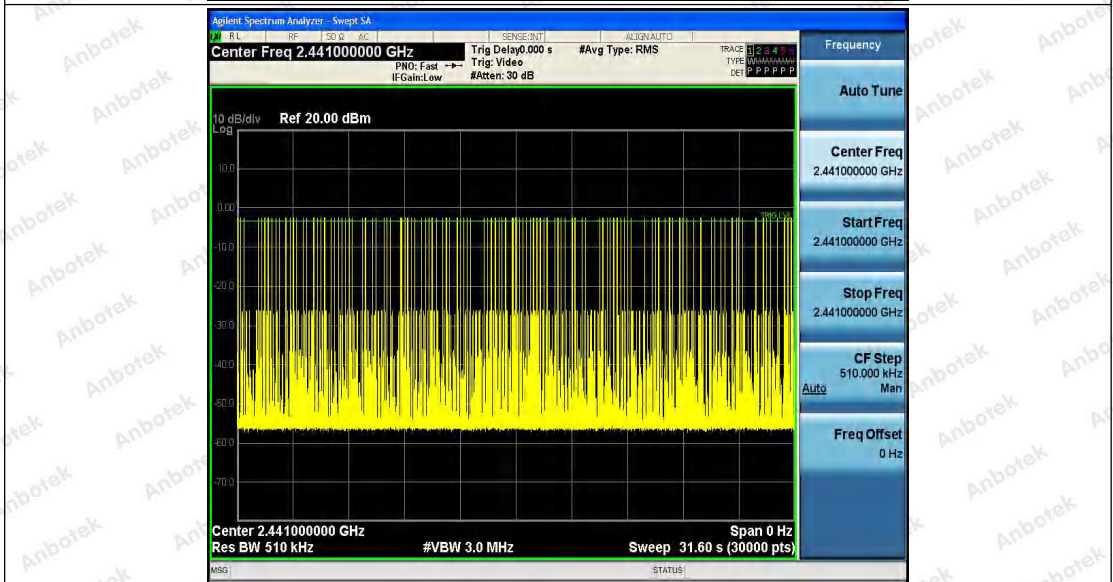
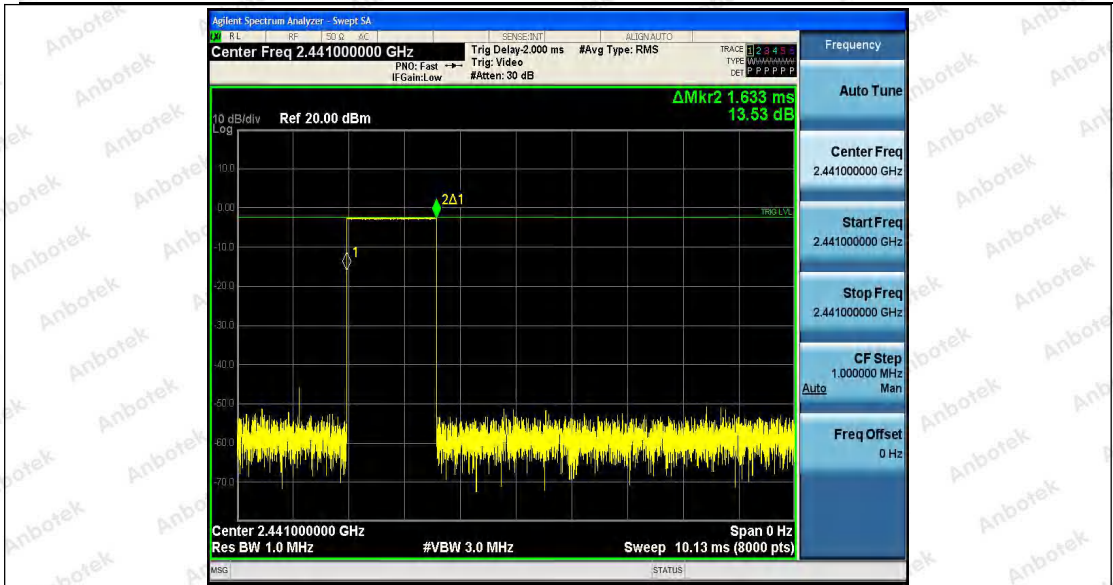
### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	123	0.354	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	109	0.315	≤0.4	PASS

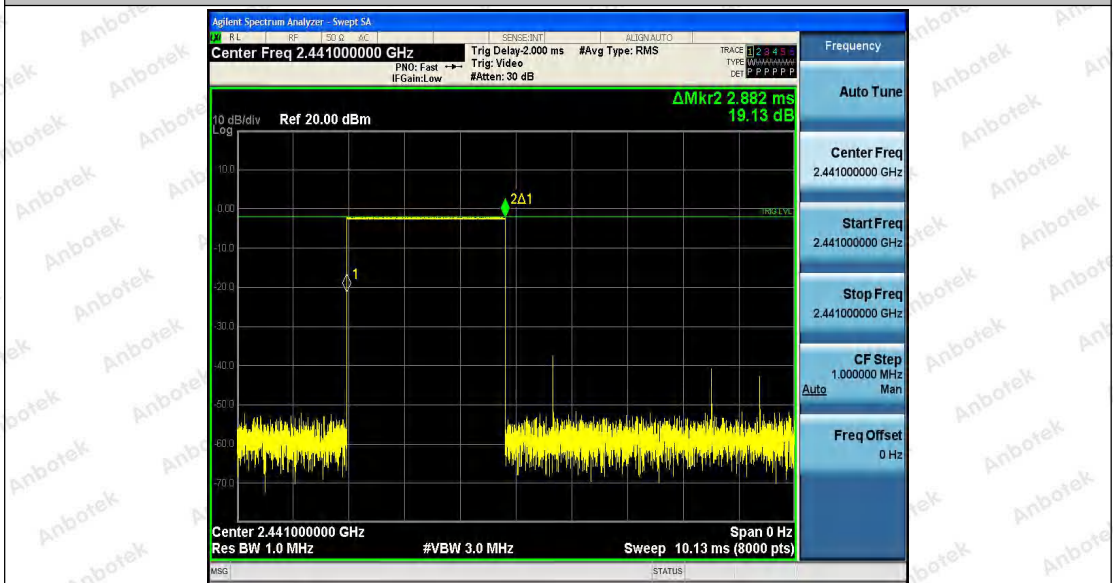
## Test Graphs







### DH5\_Ant1\_Hop

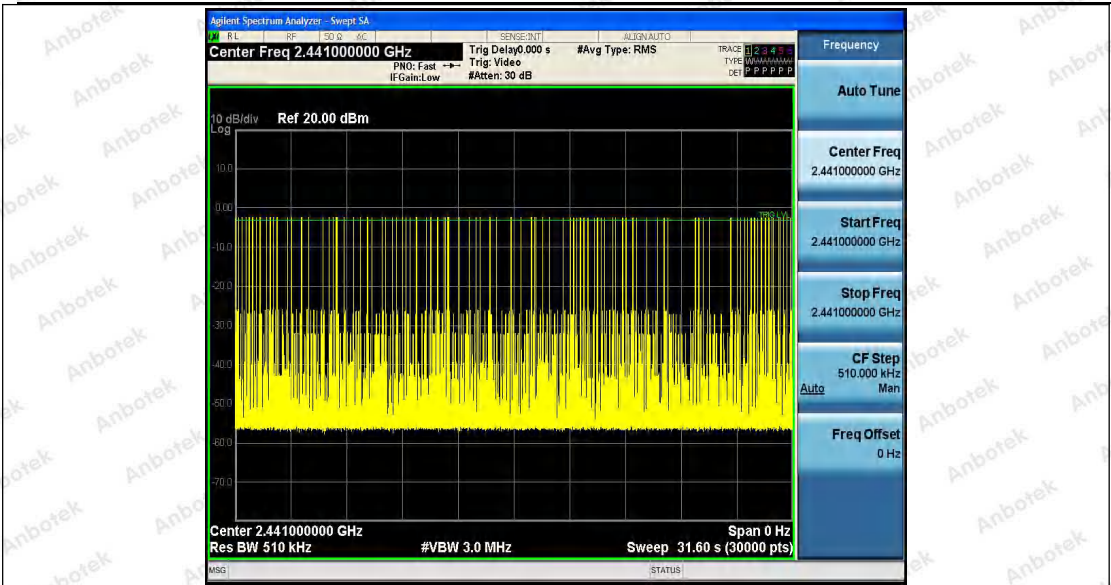


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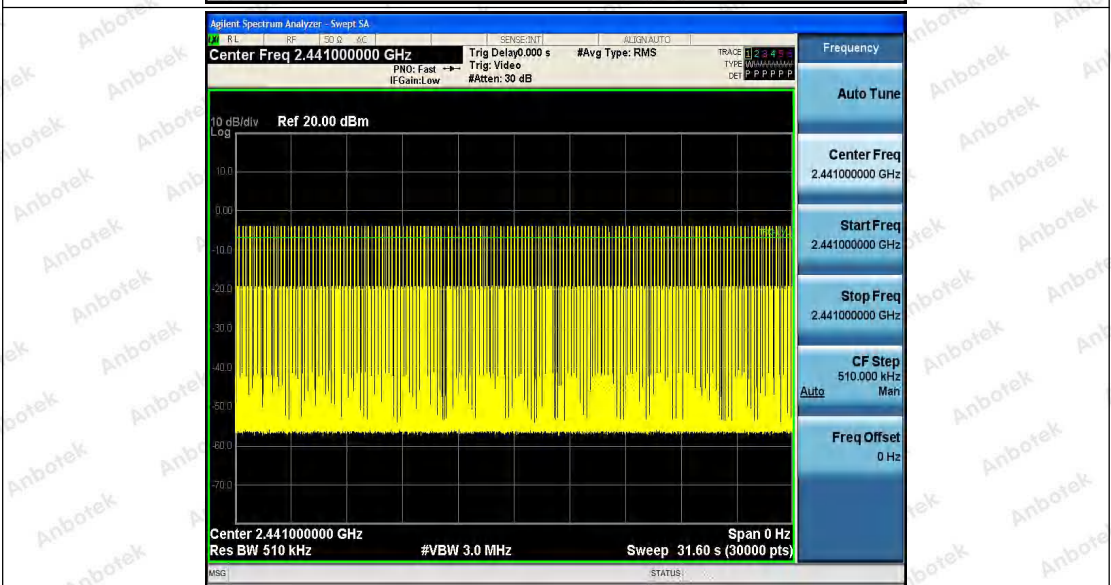
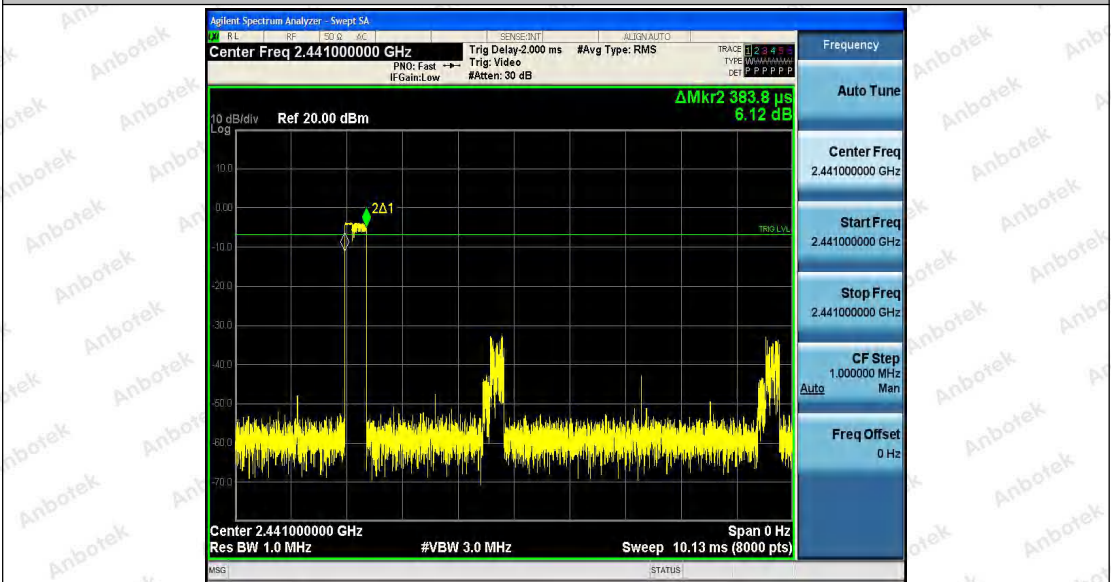
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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

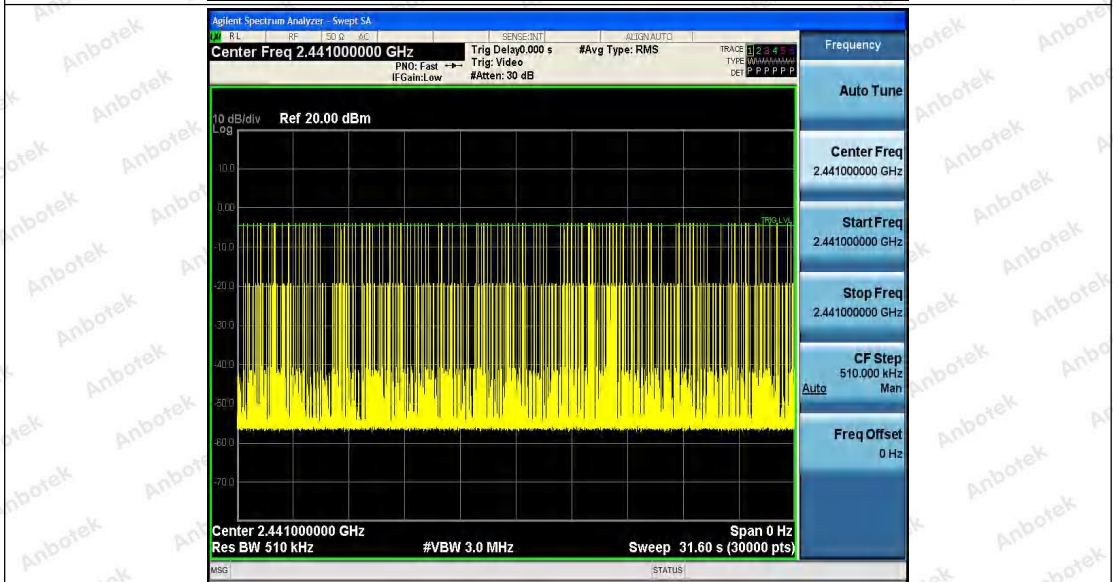
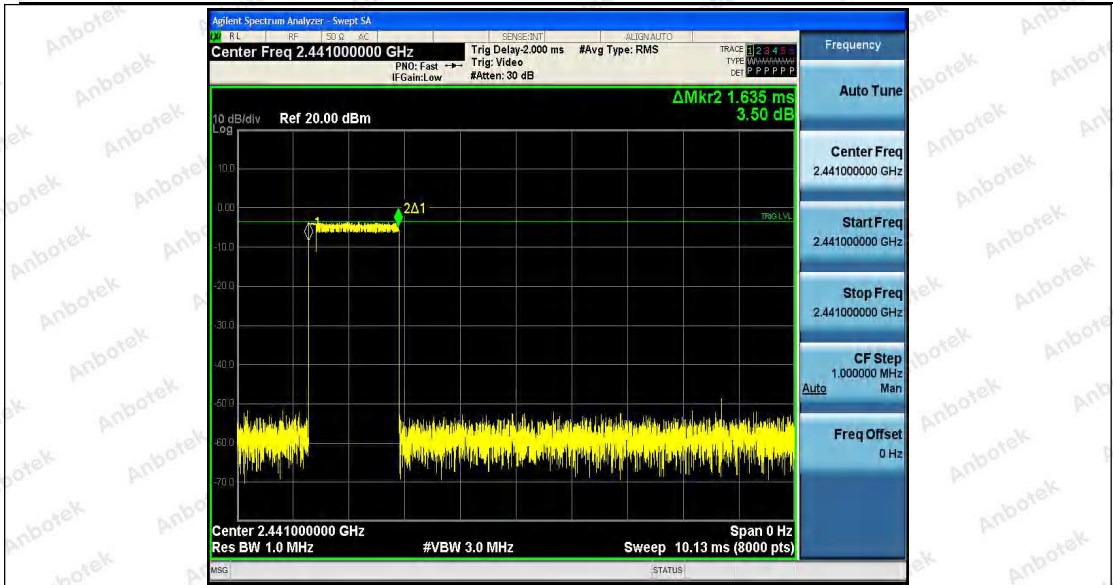
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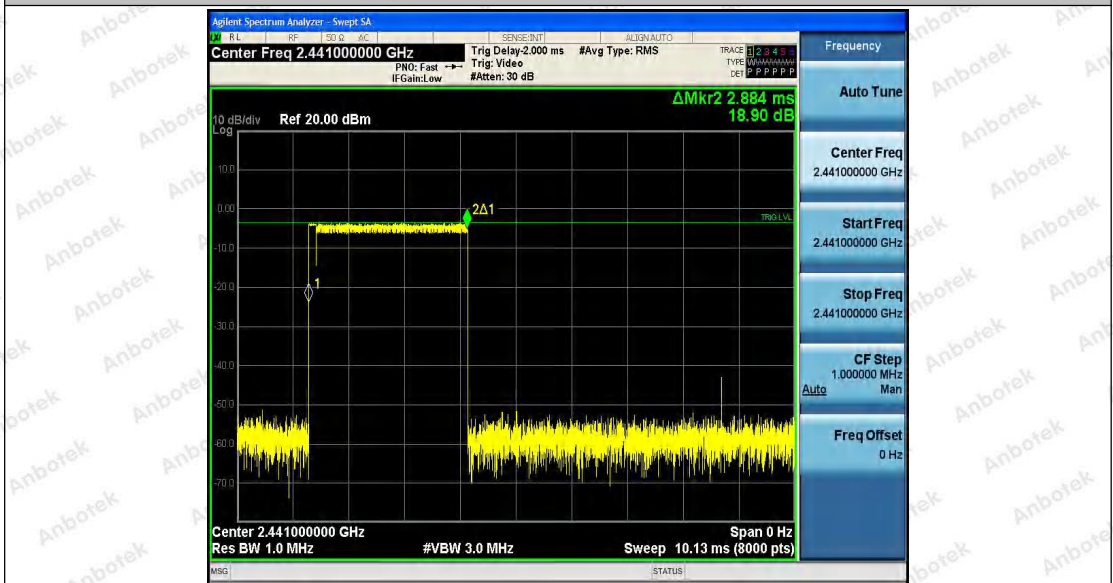
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2DH5\_Ant1\_Hop

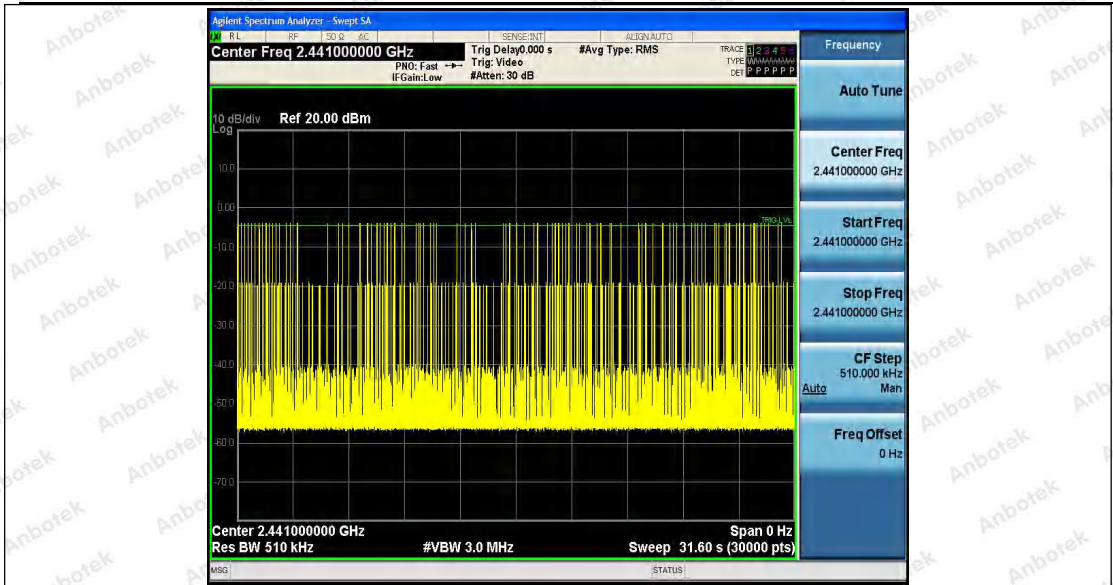


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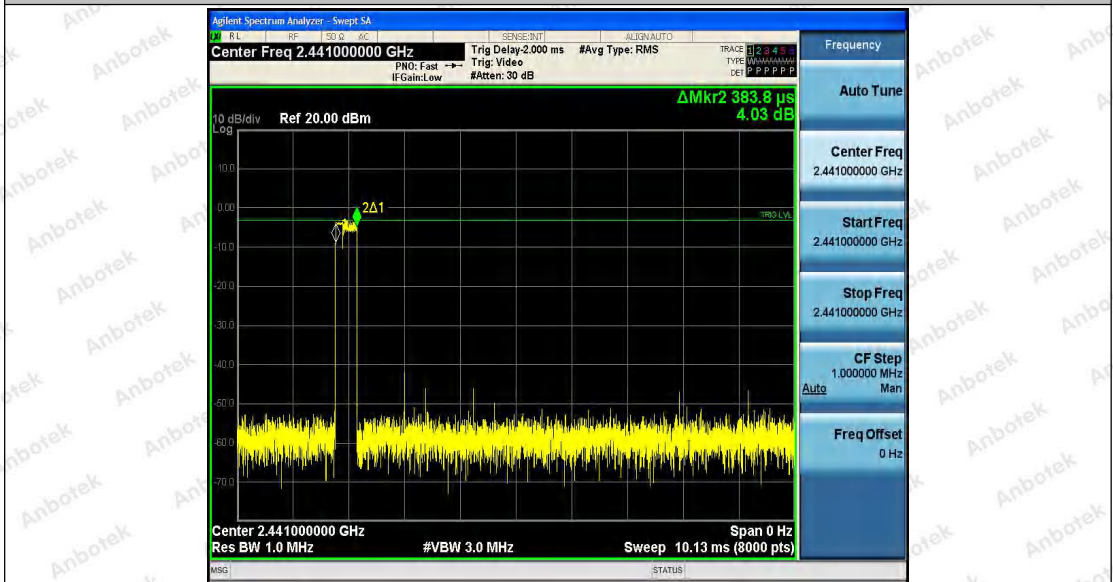
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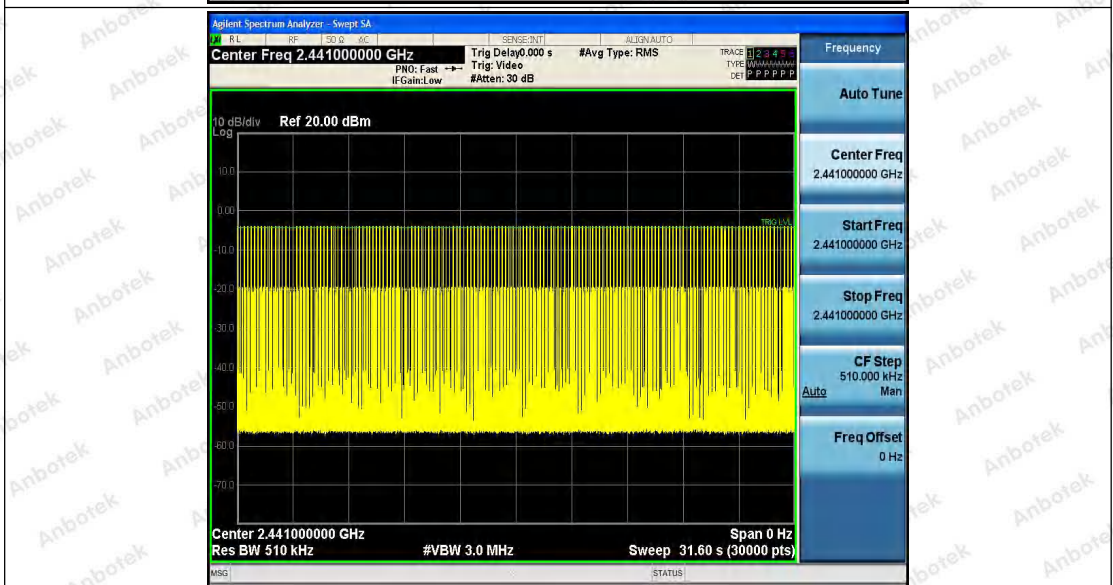
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3DH1\_Ant1\_Hop



3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop

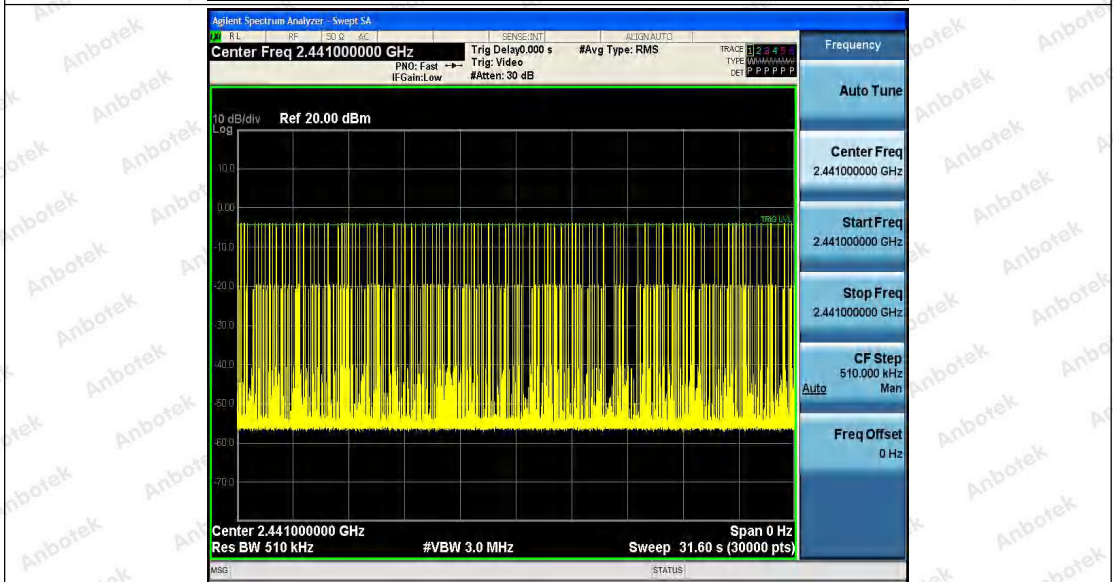
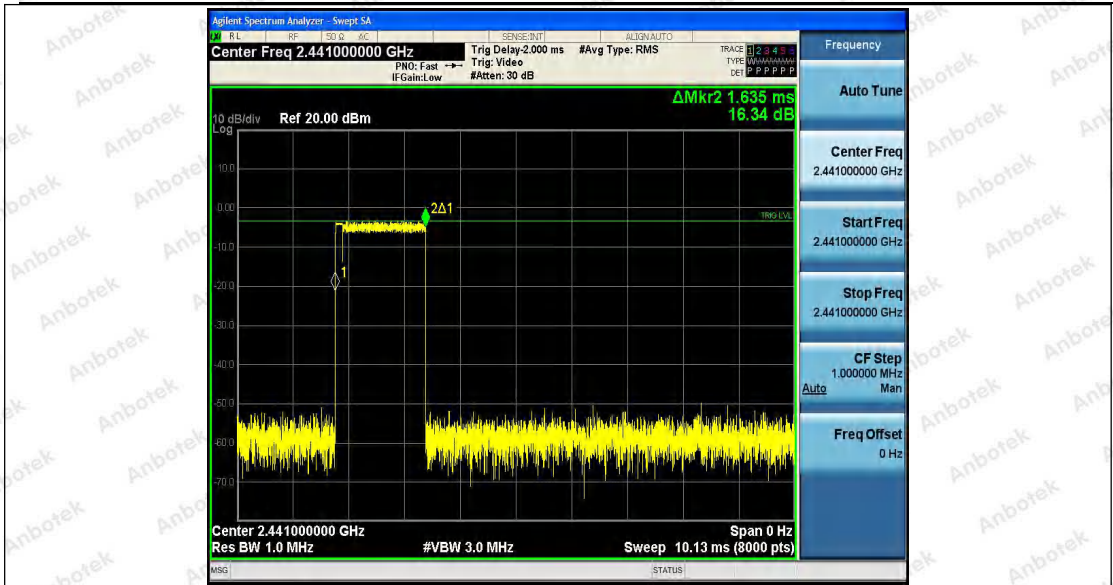
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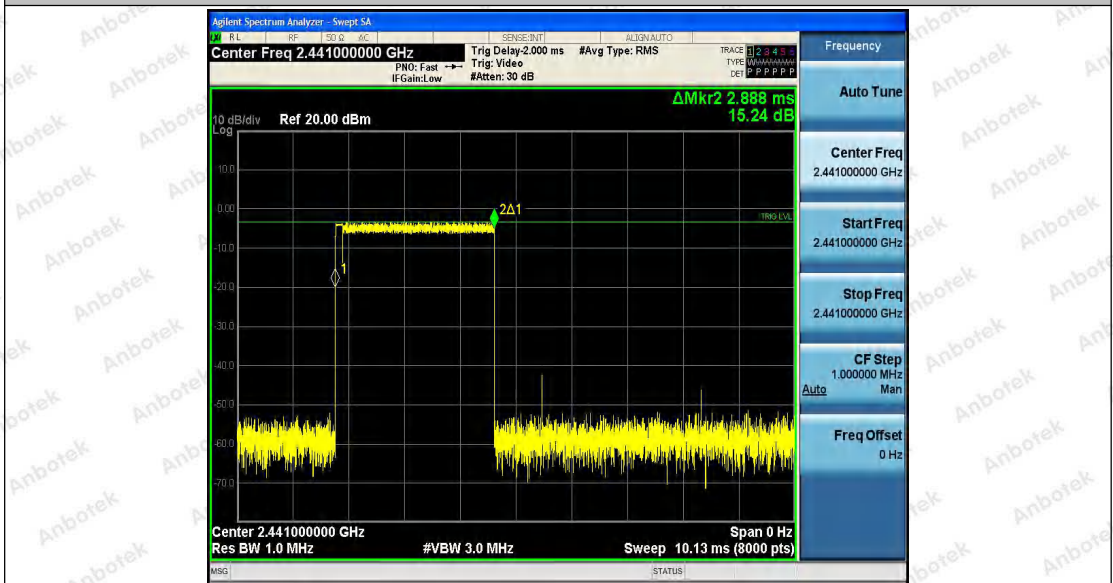
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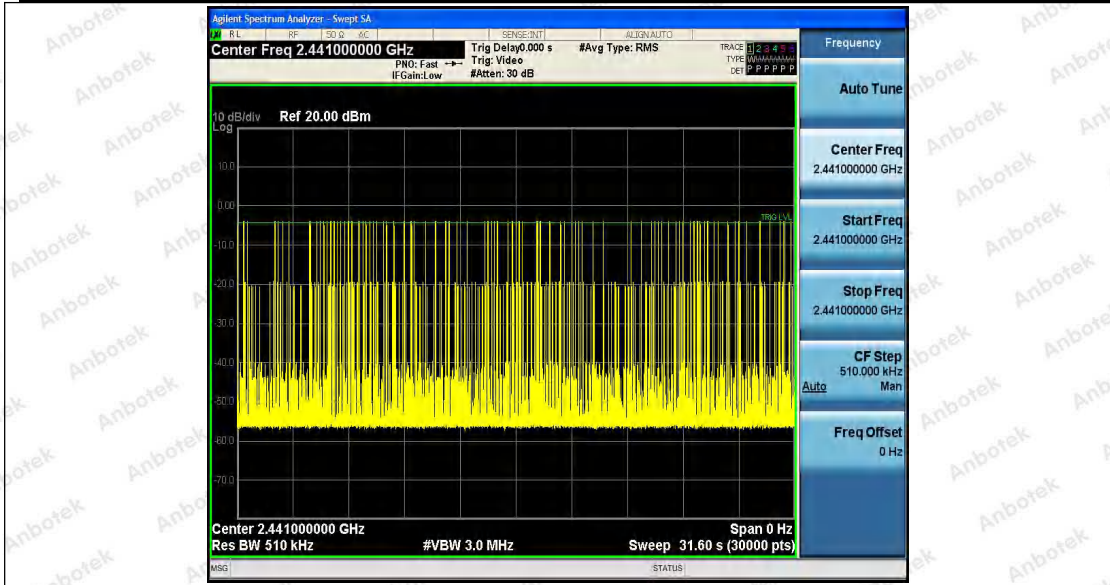
3DH5\_Ant1\_Hop



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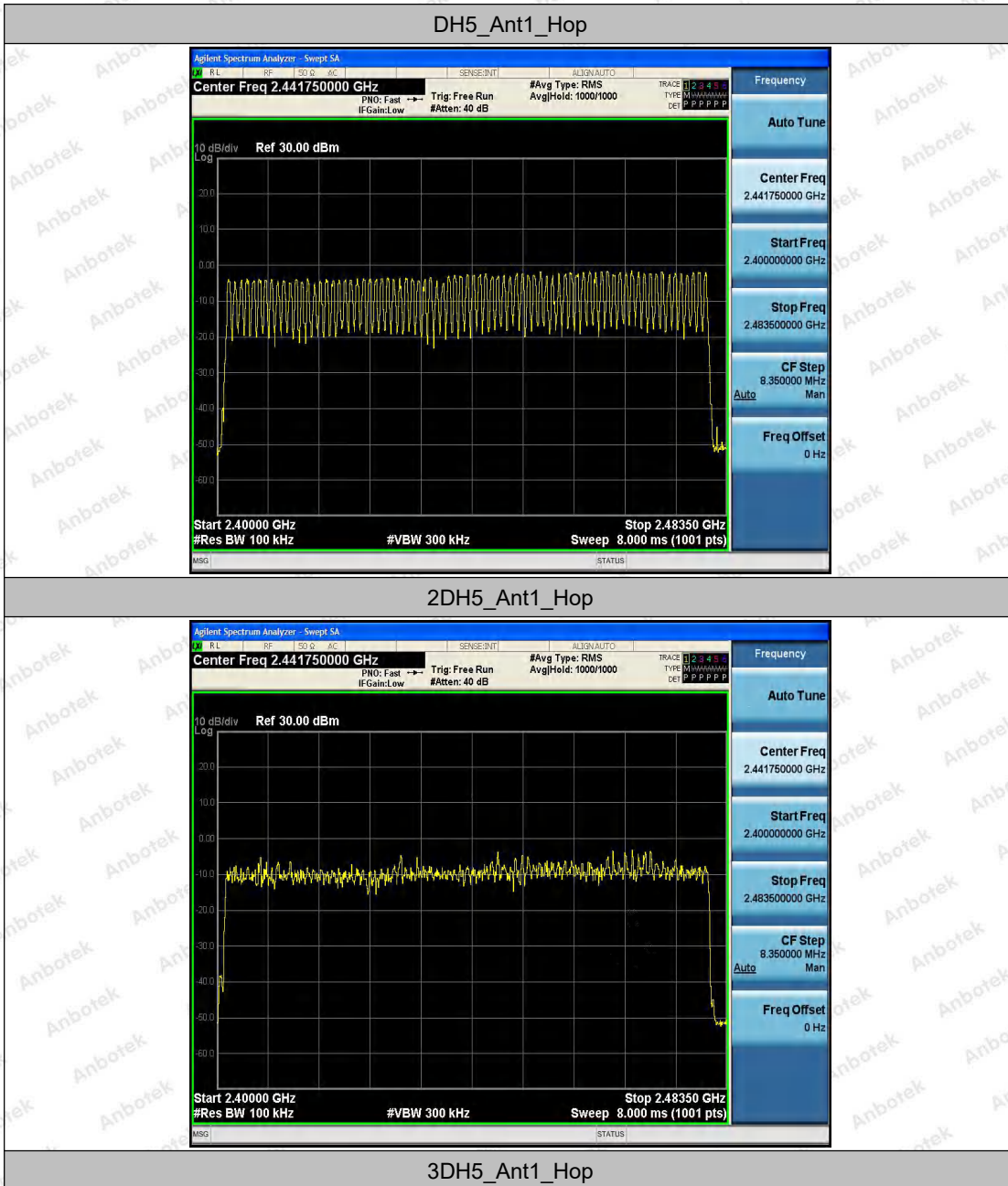


## Appendix F: Number of hopping channels

### 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



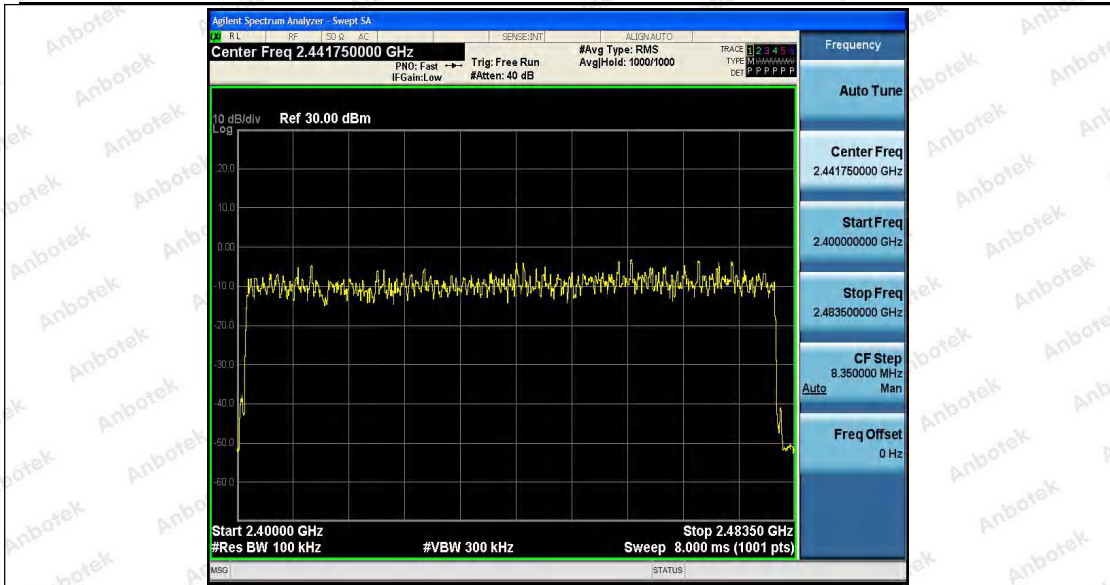
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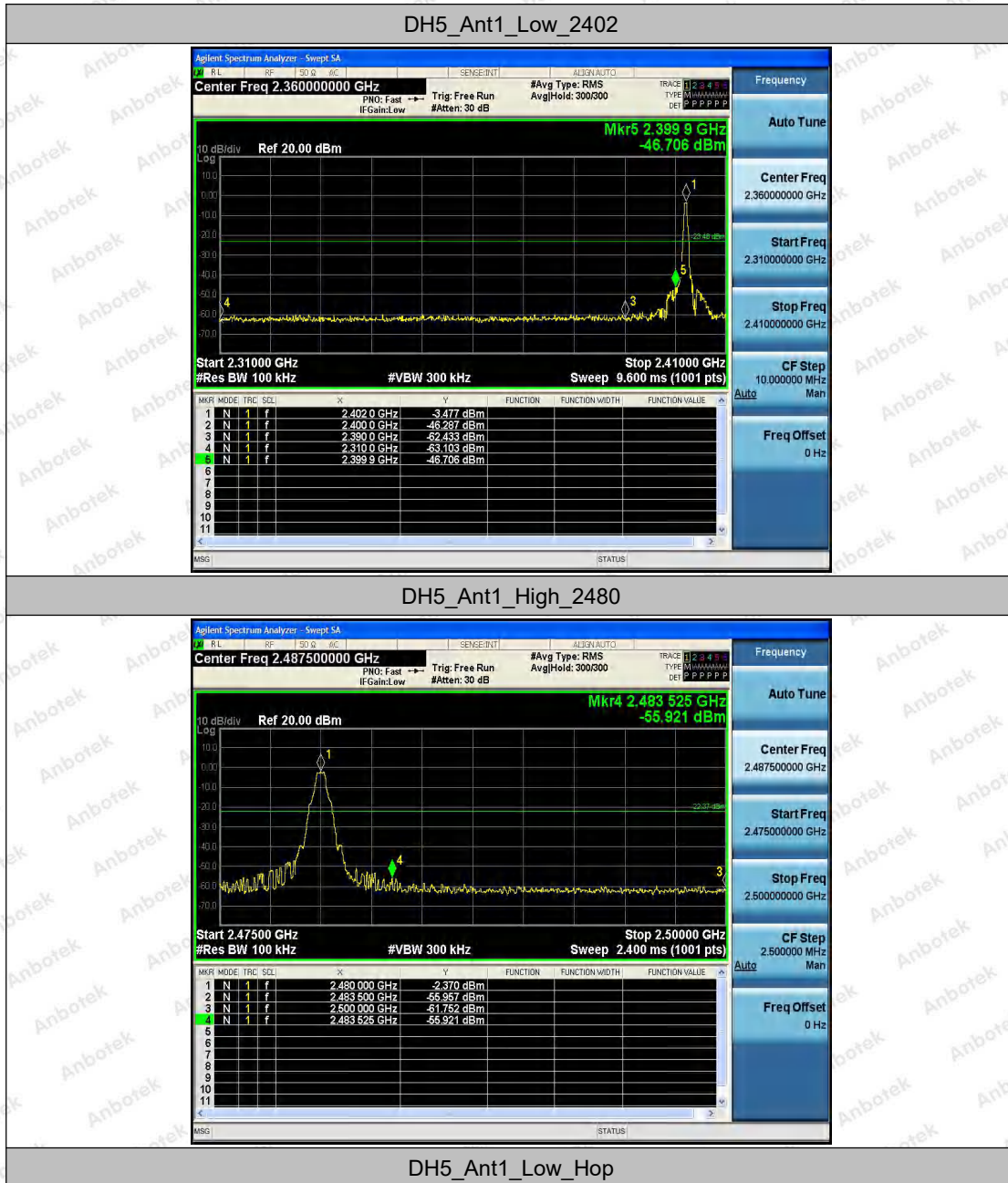
## Appendix G: Band edge measurements

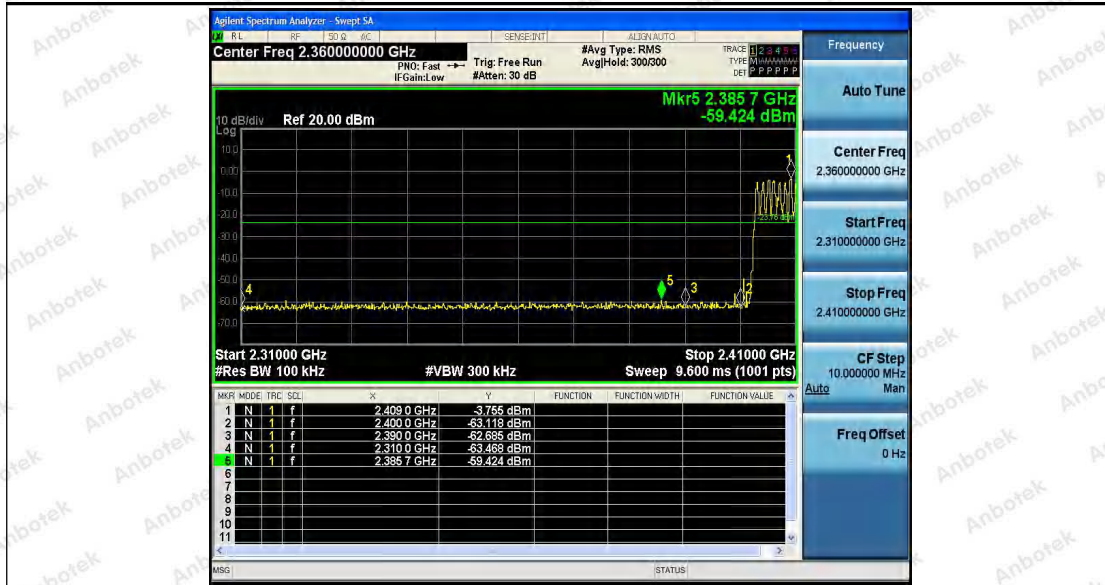
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.48	-46.71	≤-23.48	PASS
		High	2480	-2.37	-55.92	≤-22.37	PASS
		Low	Hop	-3.76	-59.42	≤-23.76	PASS
		High	Hop	-1.96	-61.02	≤-21.96	PASS
2DH5	Ant1	Low	2402	-7.42	-49.35	≤-27.42	PASS
		High	2480	-3.90	-56.35	≤-23.9	PASS
		Low	Hop	-8.09	-59.44	≤-28.09	PASS
		High	Hop	-5.58	-61.63	≤-25.58	PASS
3DH5	Ant1	Low	2402	-4.58	-53.34	≤-24.58	PASS
		High	2480	-3.95	-57.04	≤-23.95	PASS
		Low	Hop	-5.43	-56.69	≤-25.43	PASS
		High	Hop	-7.34	-63.23	≤-27.34	PASS

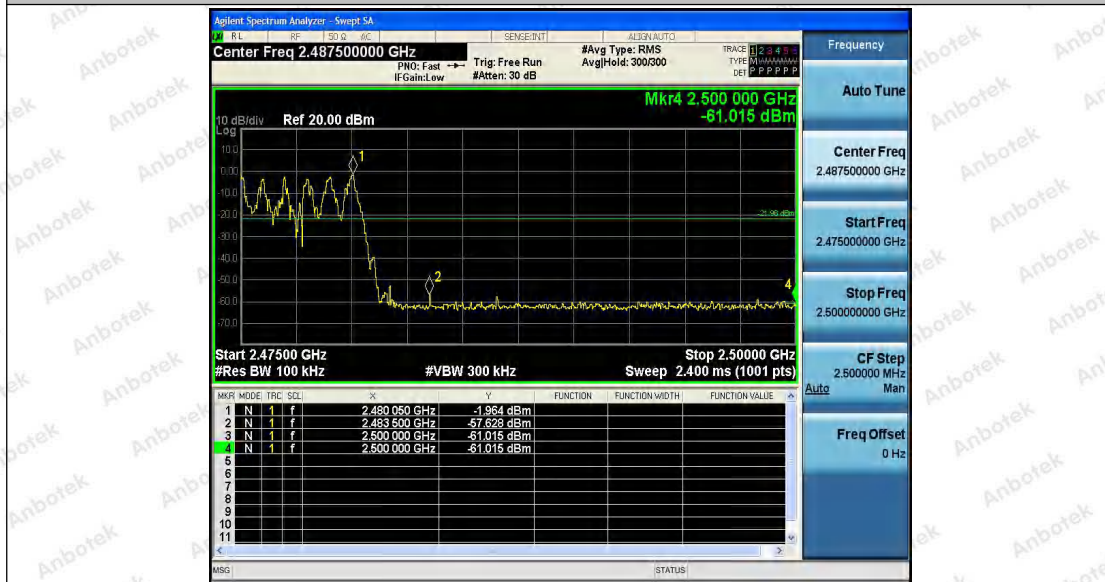


## Test Graphs

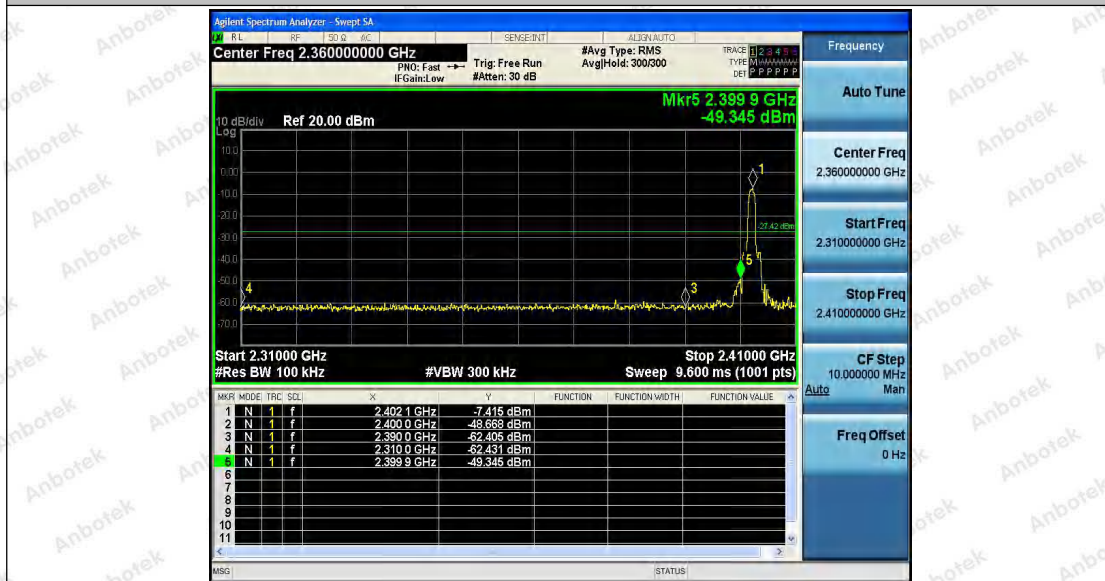




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



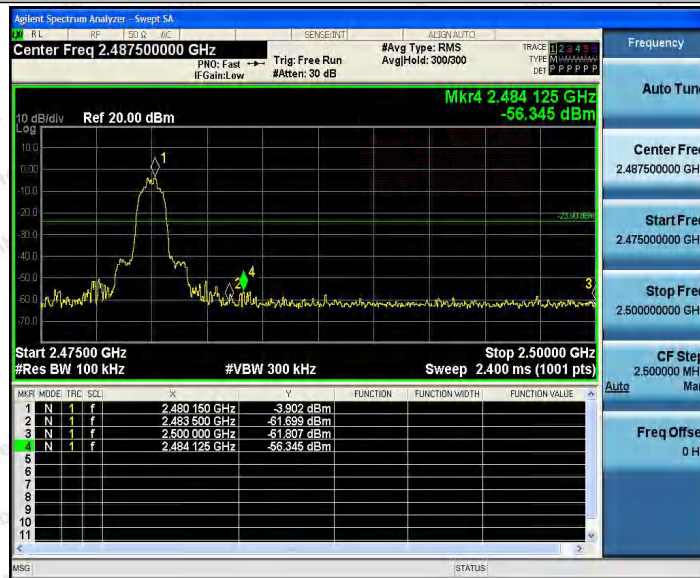
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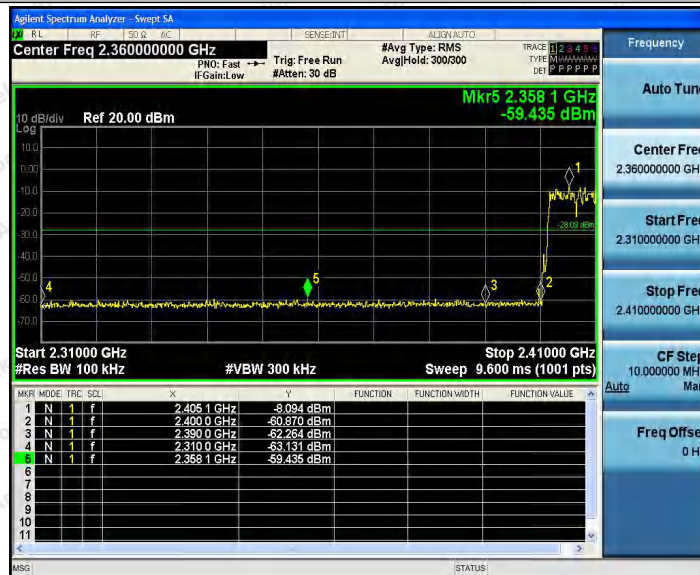
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



### 2DH5\_Ant1\_High\_Hop

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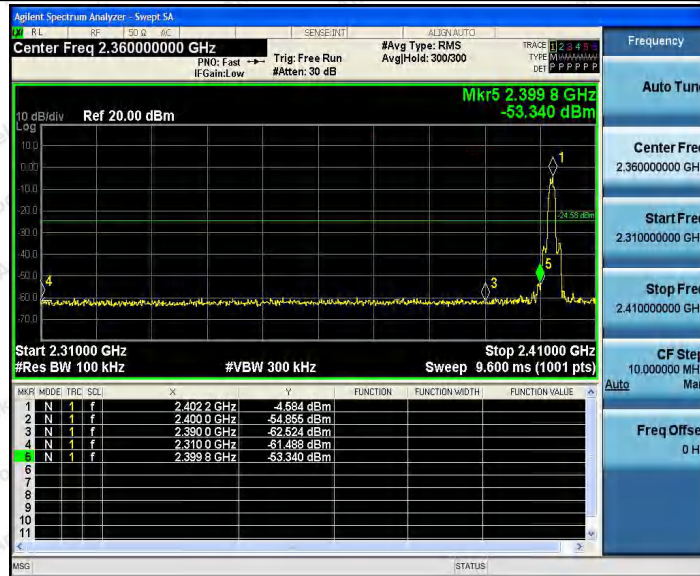
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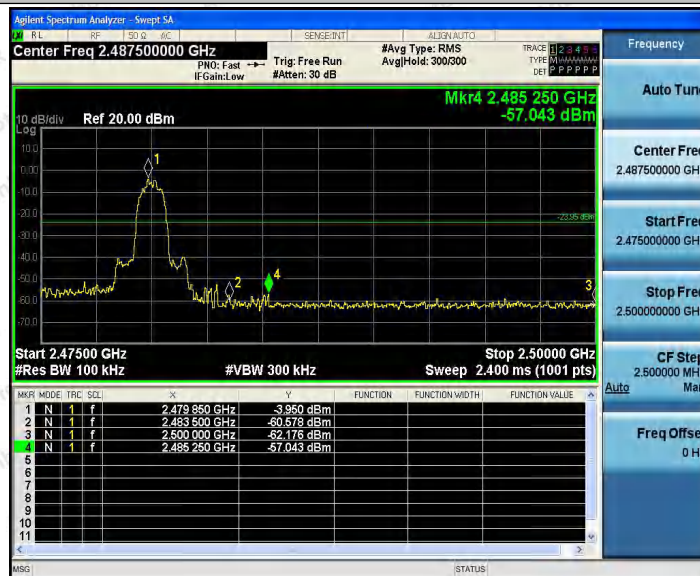
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3DH5\_Ant1\_Low\_2402



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	-3.53	-3.53	---	PASS
			30~1000	-3.53	-70.5	≤-23.53	PASS
			1000~26500	-3.53	-42.48	≤-23.53	PASS
		2441	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-70.9	≤-22.53	PASS
			1000~26500	-2.53	-42.36	≤-22.53	PASS
		2480	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-70.65	≤-22.37	PASS
			1000~26500	-2.37	-50.88	≤-22.37	PASS
2DH5	Ant1	2402	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-70.34	≤-25.18	PASS
			1000~26500	-5.18	-47.64	≤-25.18	PASS
		2441	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-68.9	≤-24.67	PASS
			1000~26500	-4.67	-49.74	≤-24.67	PASS
		2480	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-70.66	≤-24.13	PASS
			1000~26500	-4.13	-54.22	≤-24.13	PASS
3DH5	Ant1	2402	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-70.69	≤-25.43	PASS
			1000~26500	-5.43	-44.55	≤-25.43	PASS
		2441	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-70.96	≤-25.15	PASS
			1000~26500	-5.15	-47.72	≤-25.15	PASS
		2480	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-70.4	≤-24.04	PASS
			1000~26500	-4.04	-51.11	≤-24.04	PASS



## Test Graphs

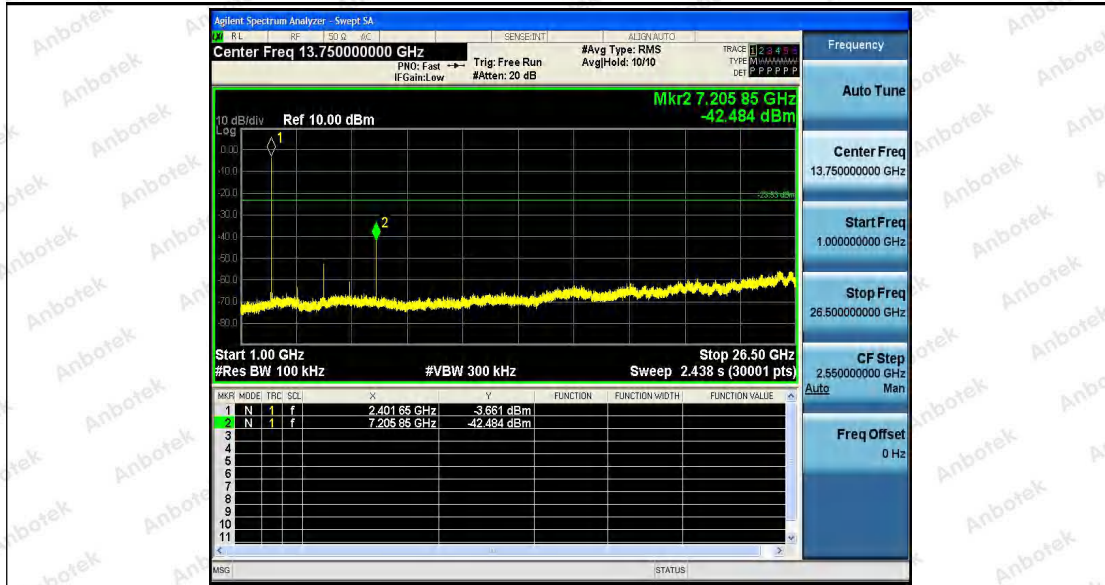


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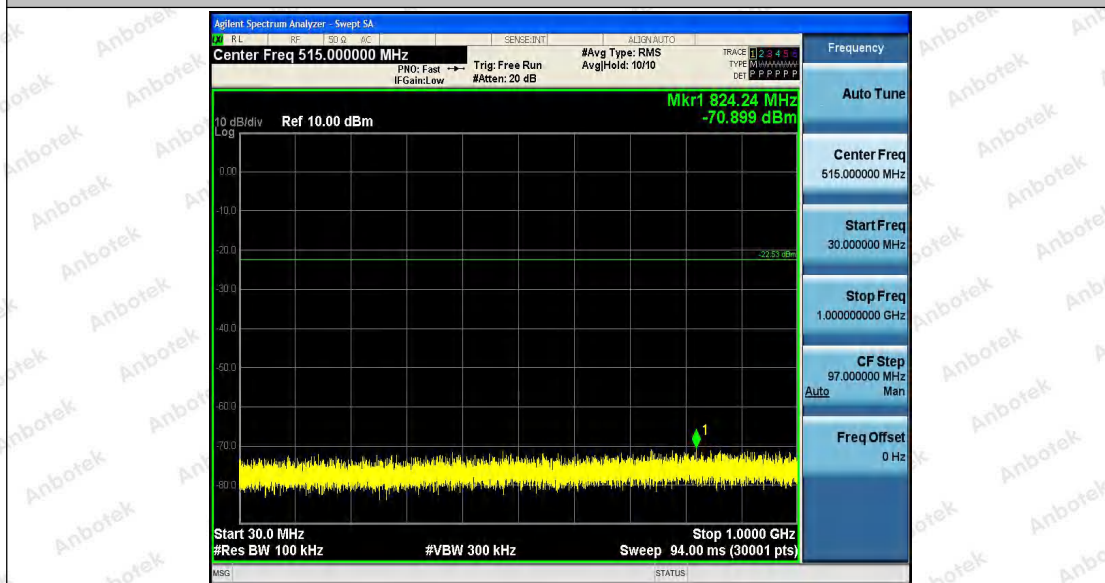
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400-003-0500  
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DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



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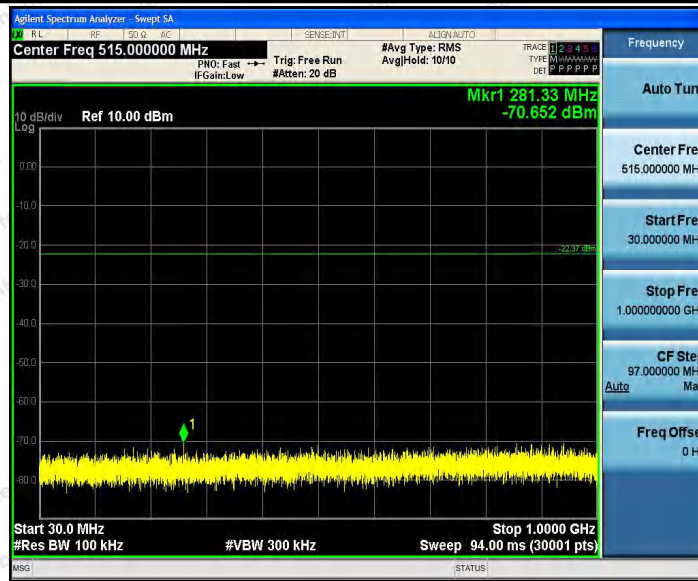


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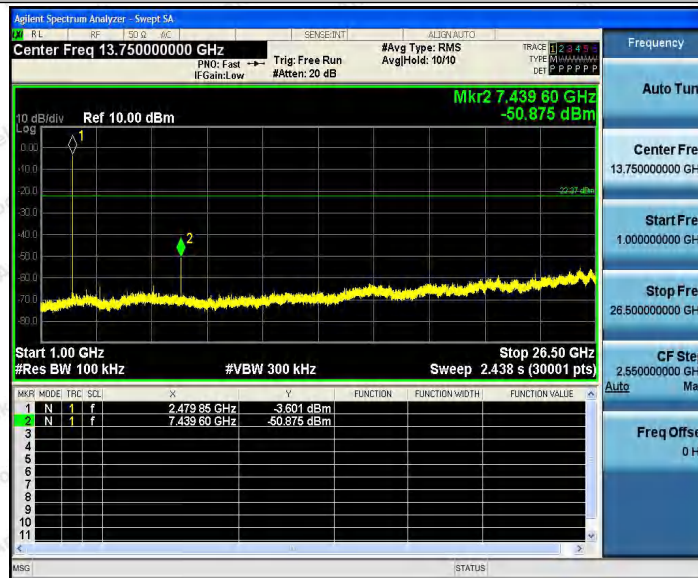
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



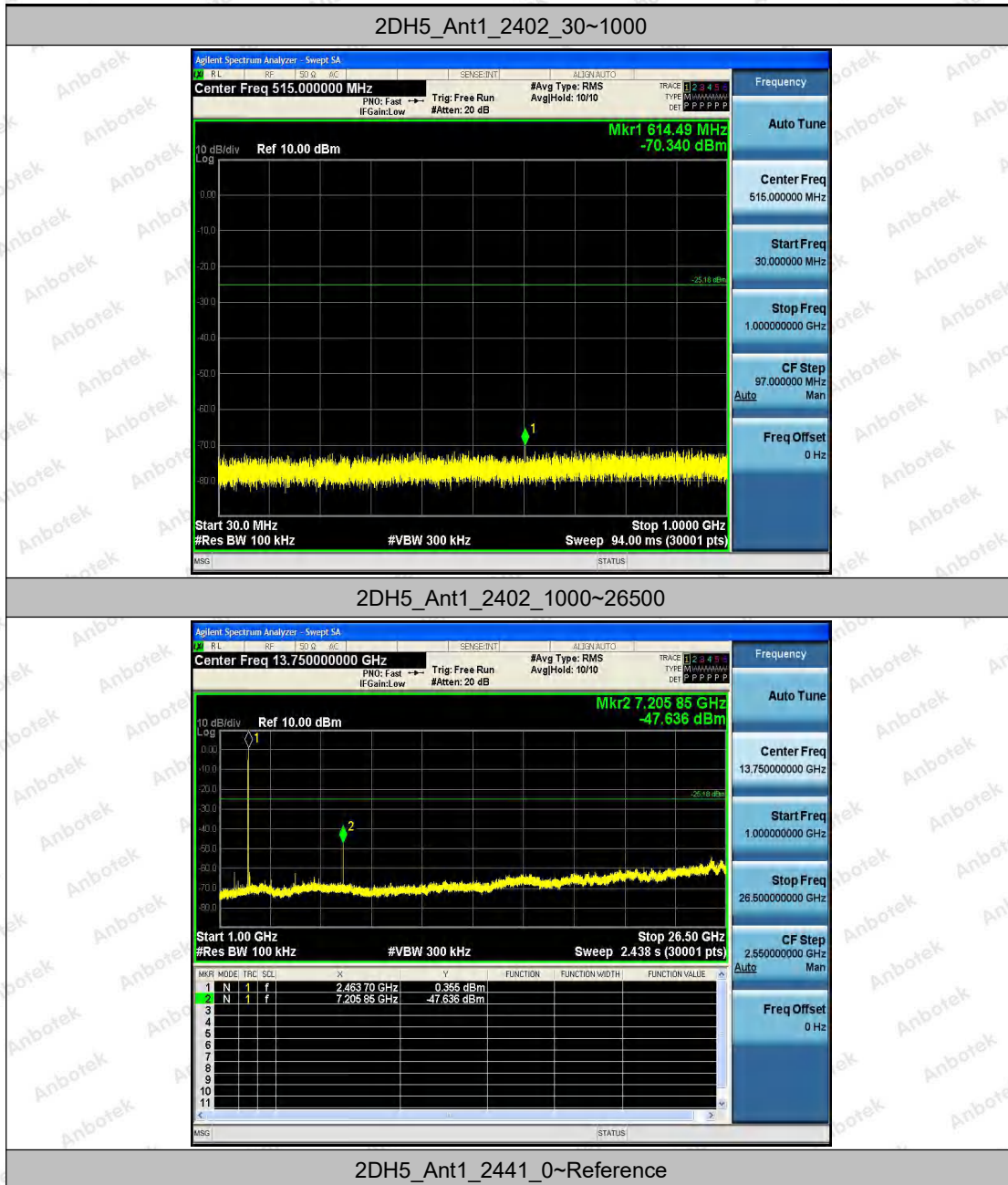
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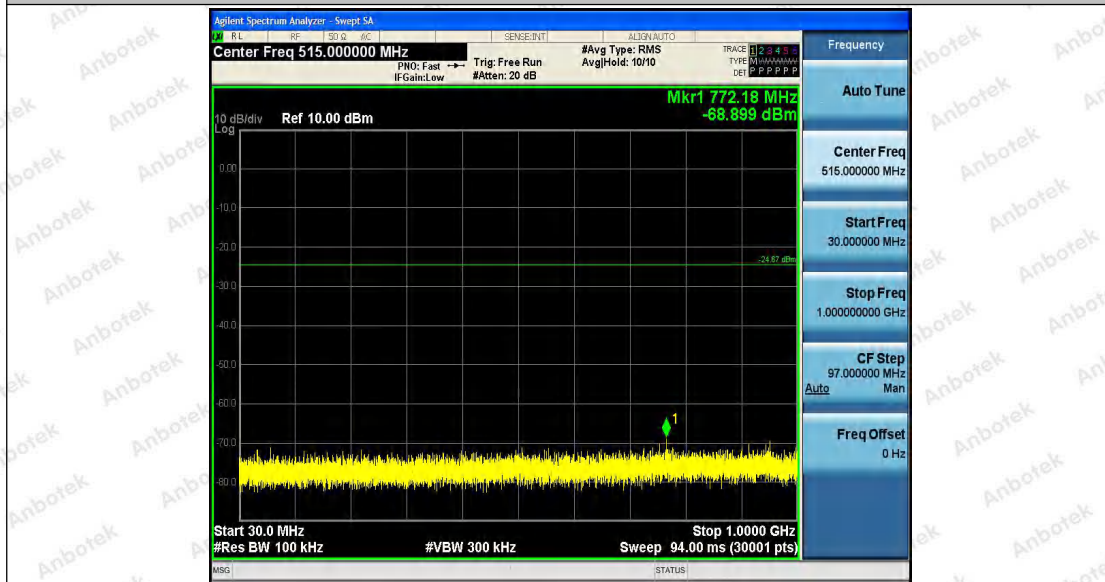
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

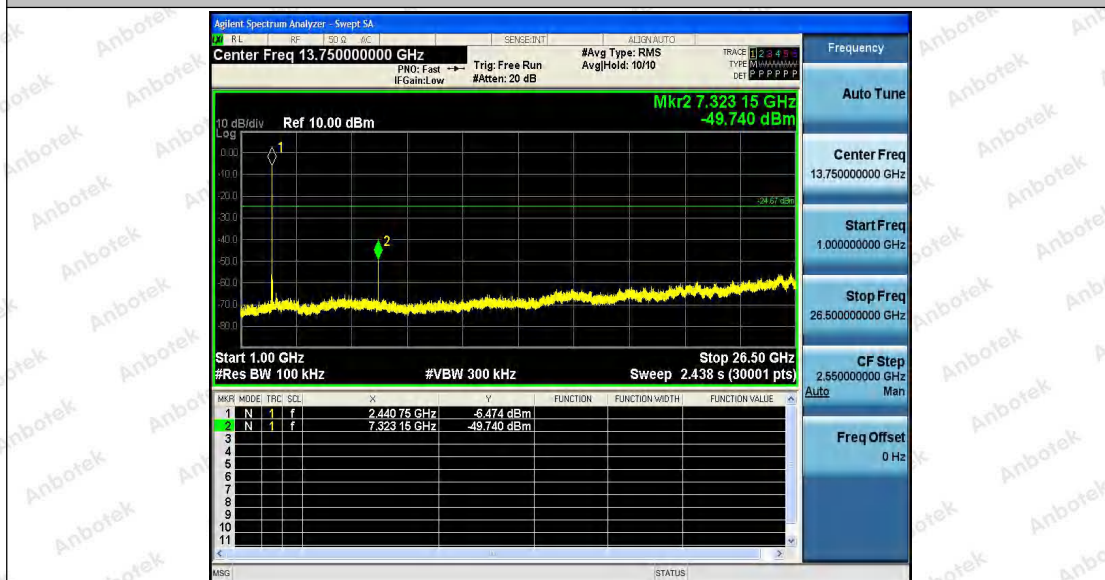
Hotline  
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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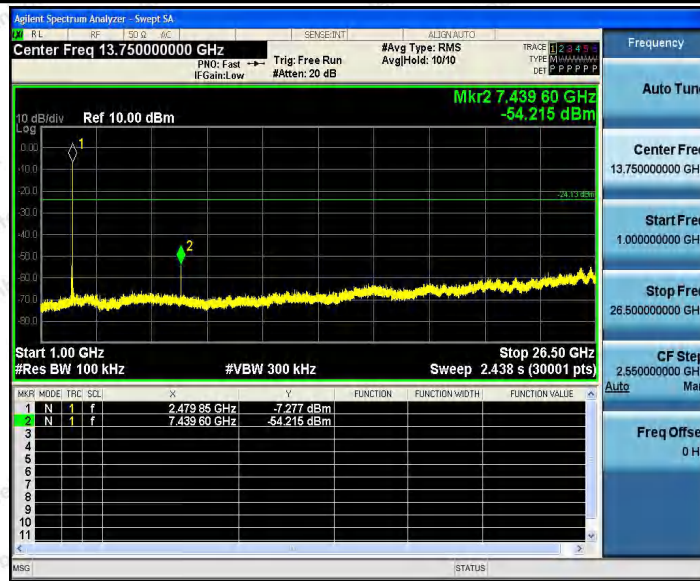




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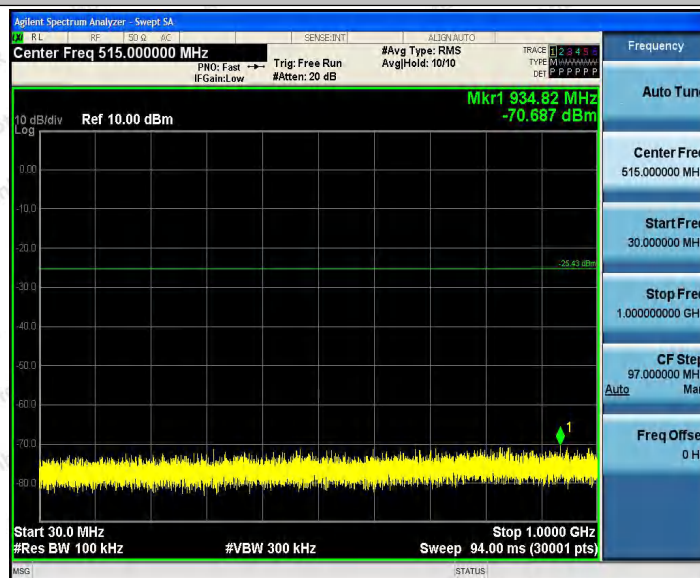
Hotline  
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3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



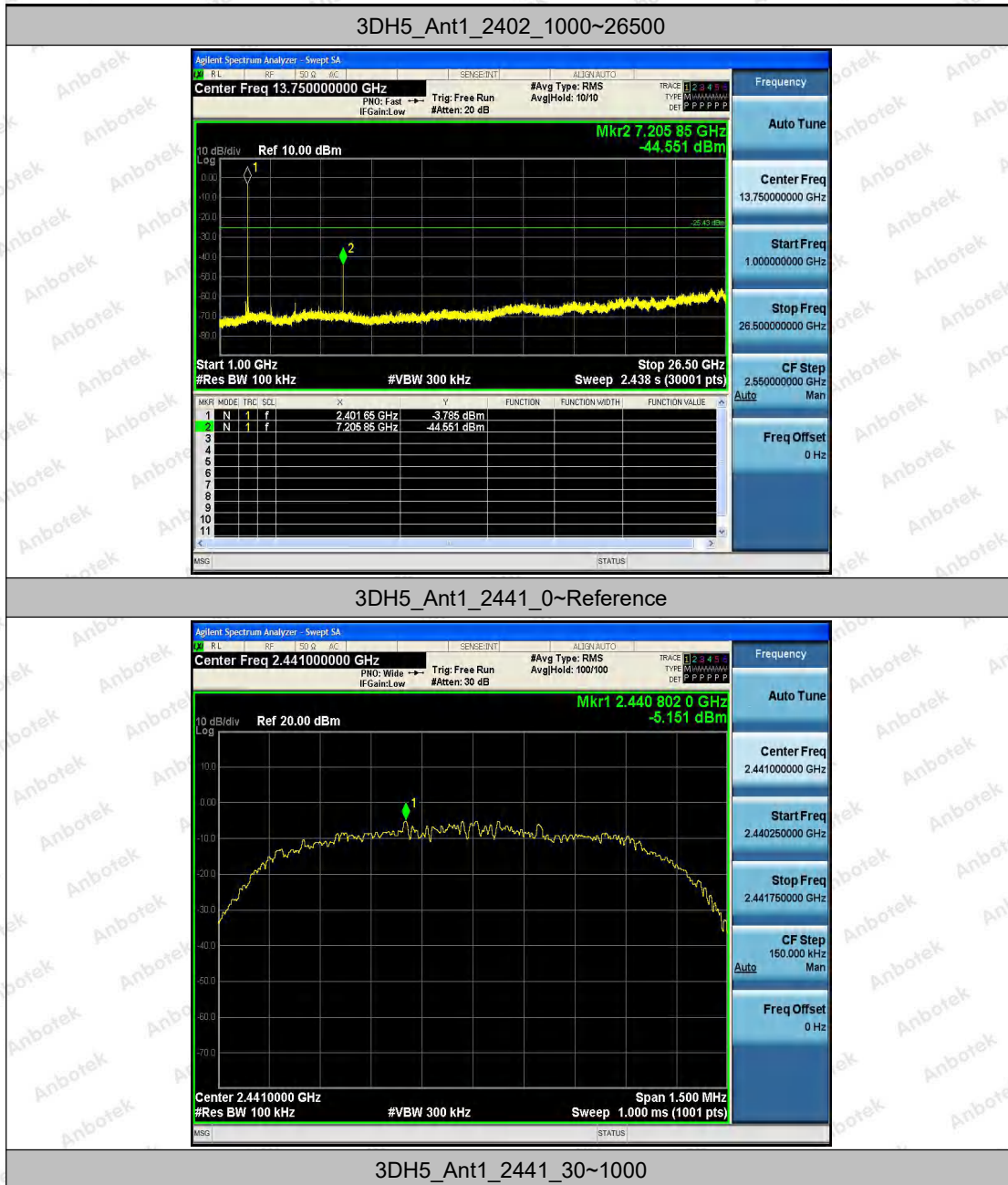
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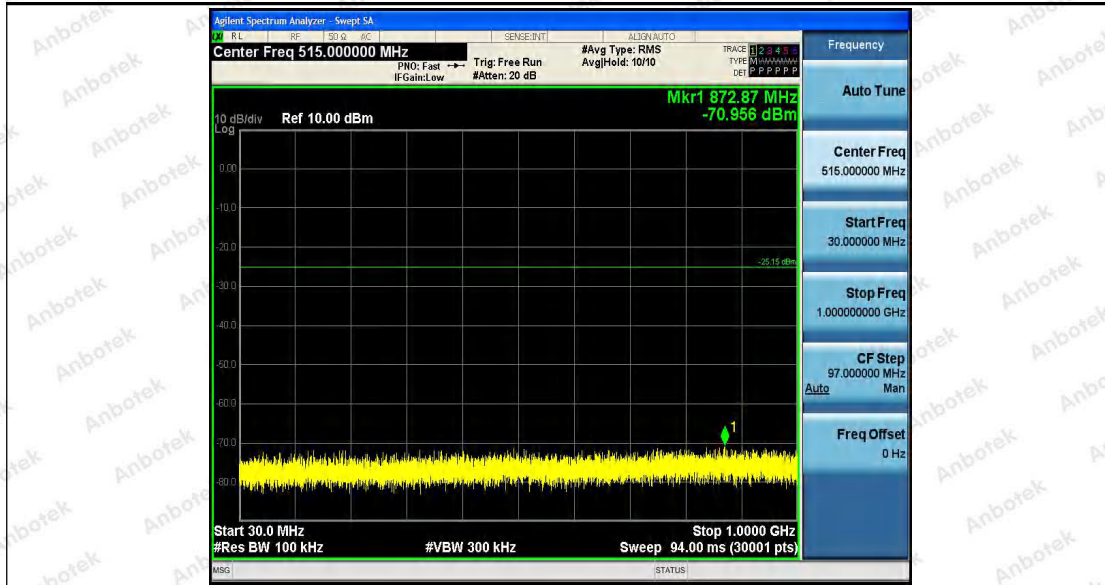


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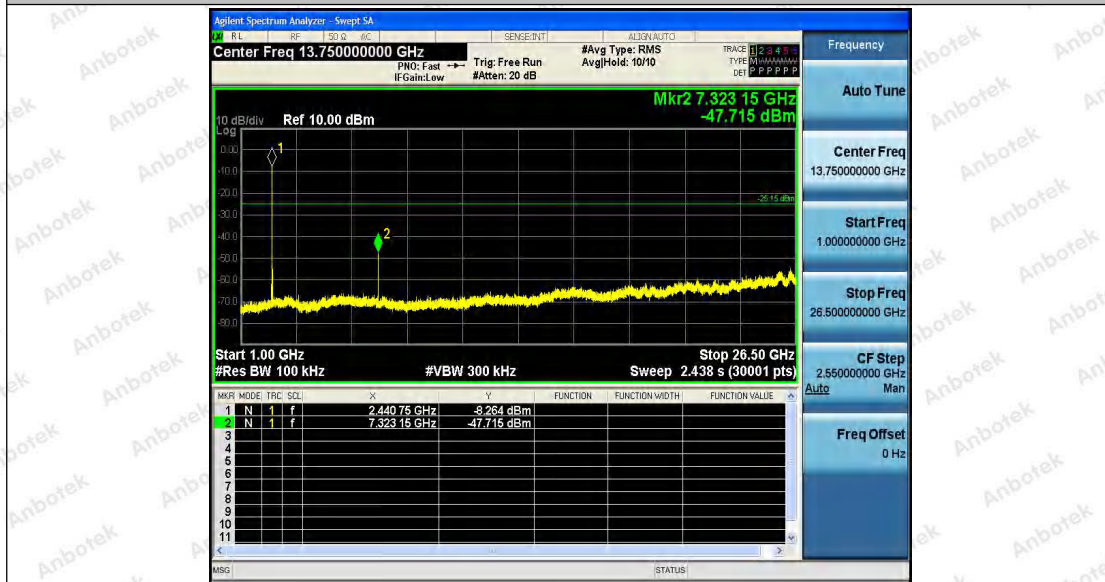
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



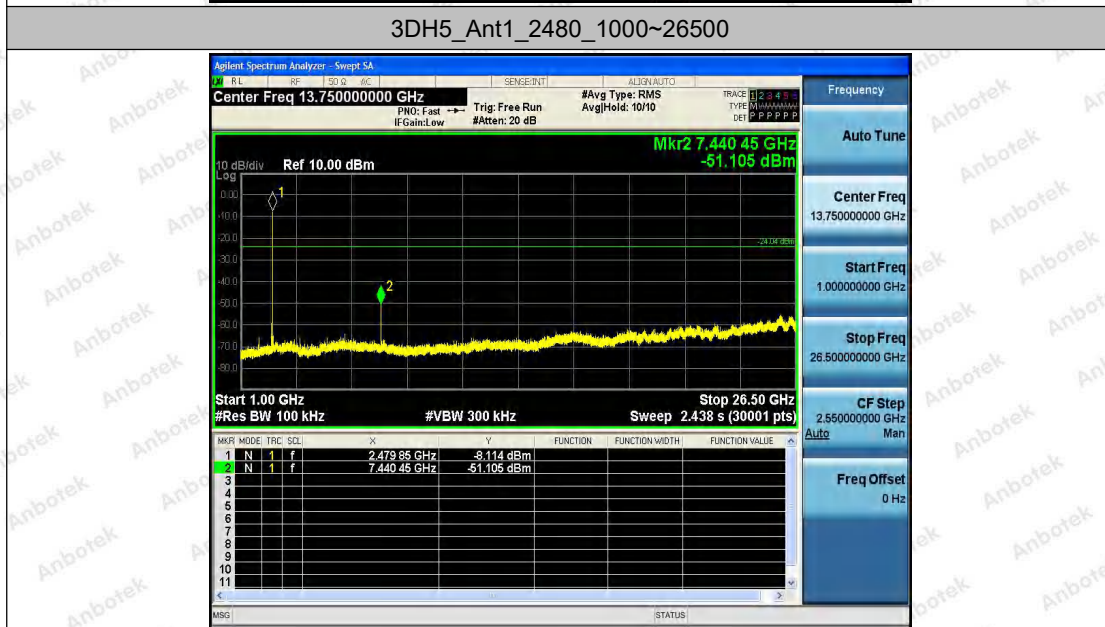
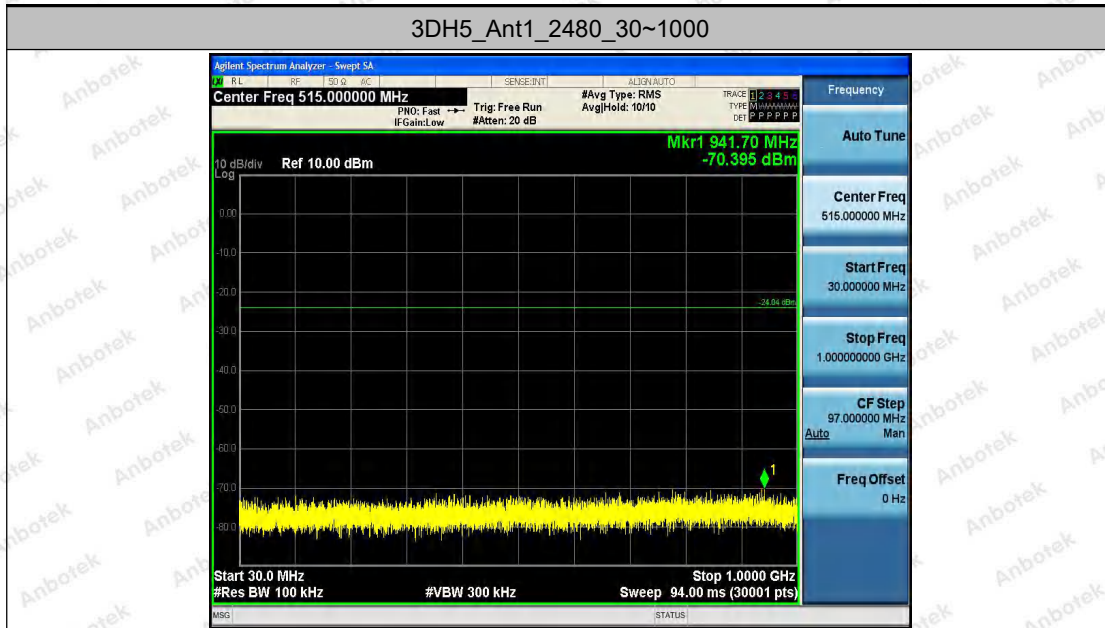
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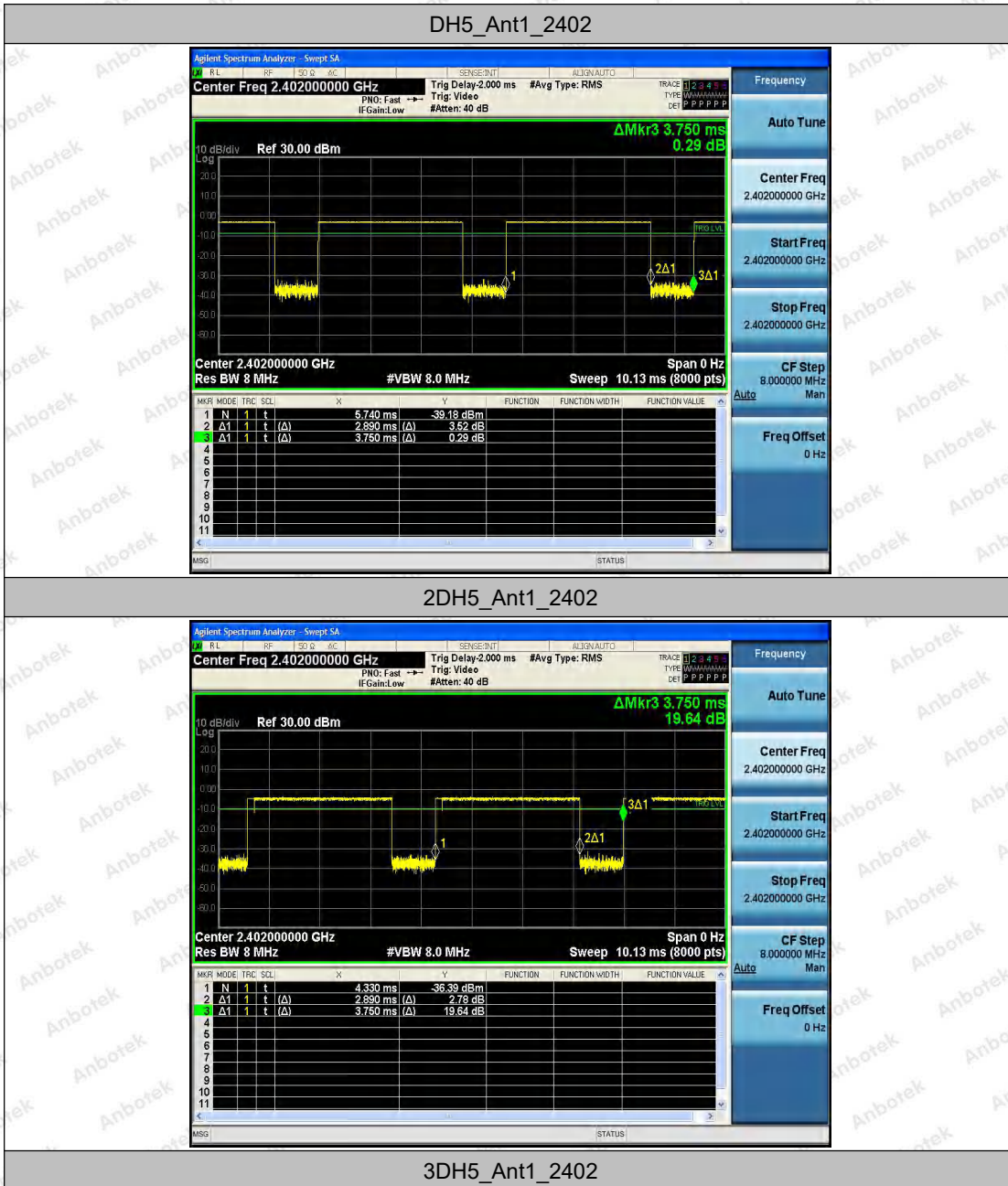
## Appendix I: Duty Cycle

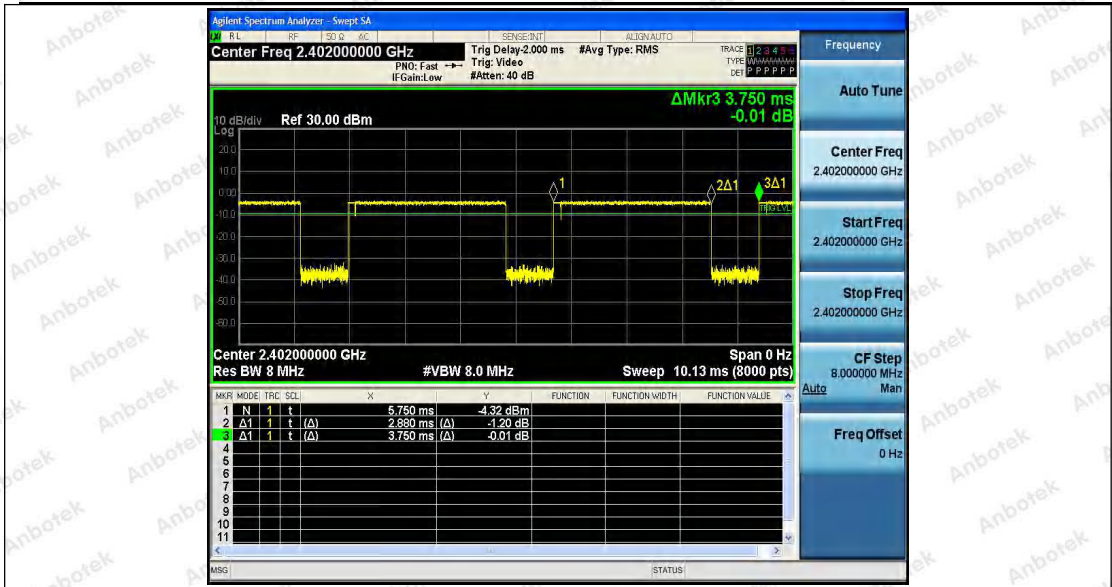
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS



## Test Graphs





---End---