

Appendix Test Data

Report No.:	18220WC20096301	Test Sample No.:	1-2-2
Start Test Date:	2022.5.5	Finish Test Date:	2022.5.12
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.7°C	Relative Humidity:	55.4 %
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	0.942	2401.541	2402.483	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.338	2401.334	2402.672	---	PASS
		2441	1.266	2440.367	2441.633	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.299	2401.346	2402.645	---	PASS
		2441	1.281	2440.349	2441.630	---	PASS
		2480	1.320	2479.343	2480.663	---	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	0.89239	2401.55 7	2402.449	---	PASS
		2441	0.89119	2440.55 7	2441.448	---	PASS
		2480	0.89667	2479.55 7	2480.454	---	PASS
2DH5	Ant1	2402	1.1929	2401.40 5	2402.598	---	PASS
		2441	1.2018	2440.40 0	2441.602	---	PASS
		2480	1.1903	2479.40 7	2480.597	---	PASS
3DH5	Ant1	2402	1.2083	2401.38 8	2402.596	---	PASS
		2441	1.2141	2440.38 5	2441.599	---	PASS
		2480	1.2059	2479.39 1	2480.596	---	PASS

Test Graphs



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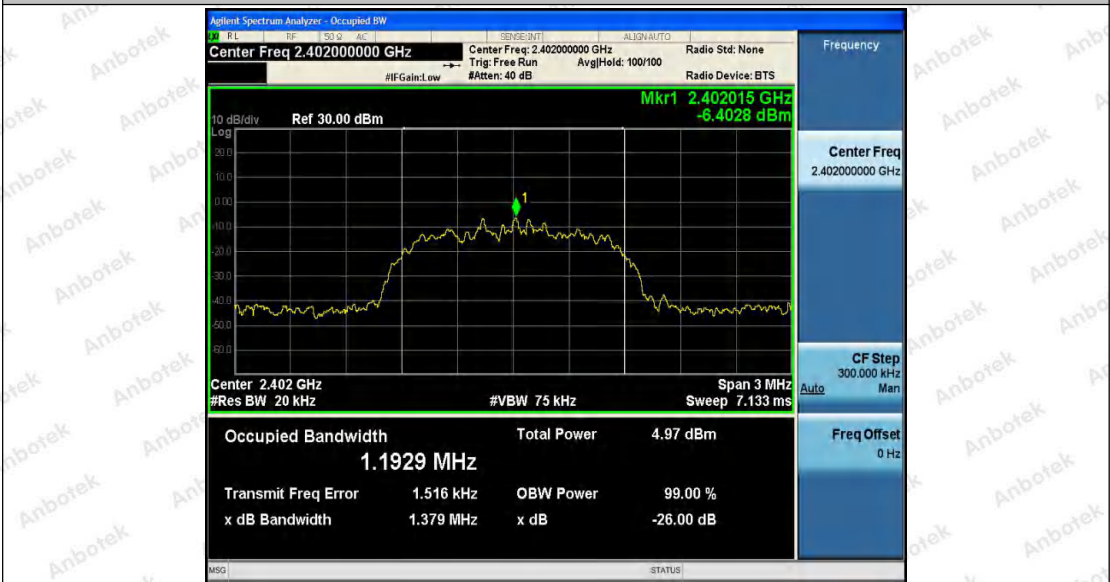
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2DH5_Ant1_2402



2DH5_Ant1_2441



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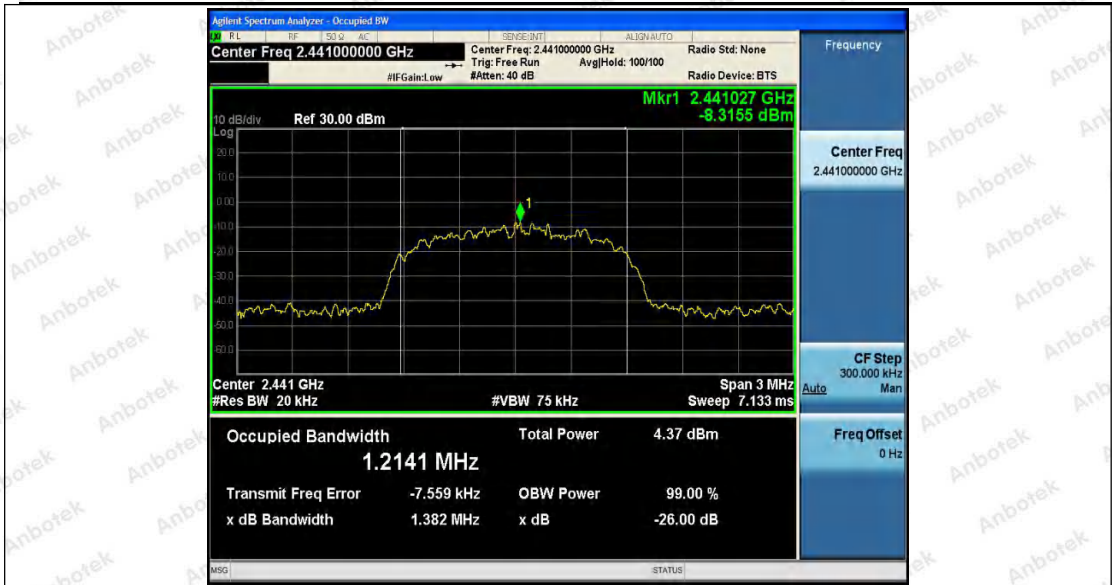


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3DH5_Ant1_2480



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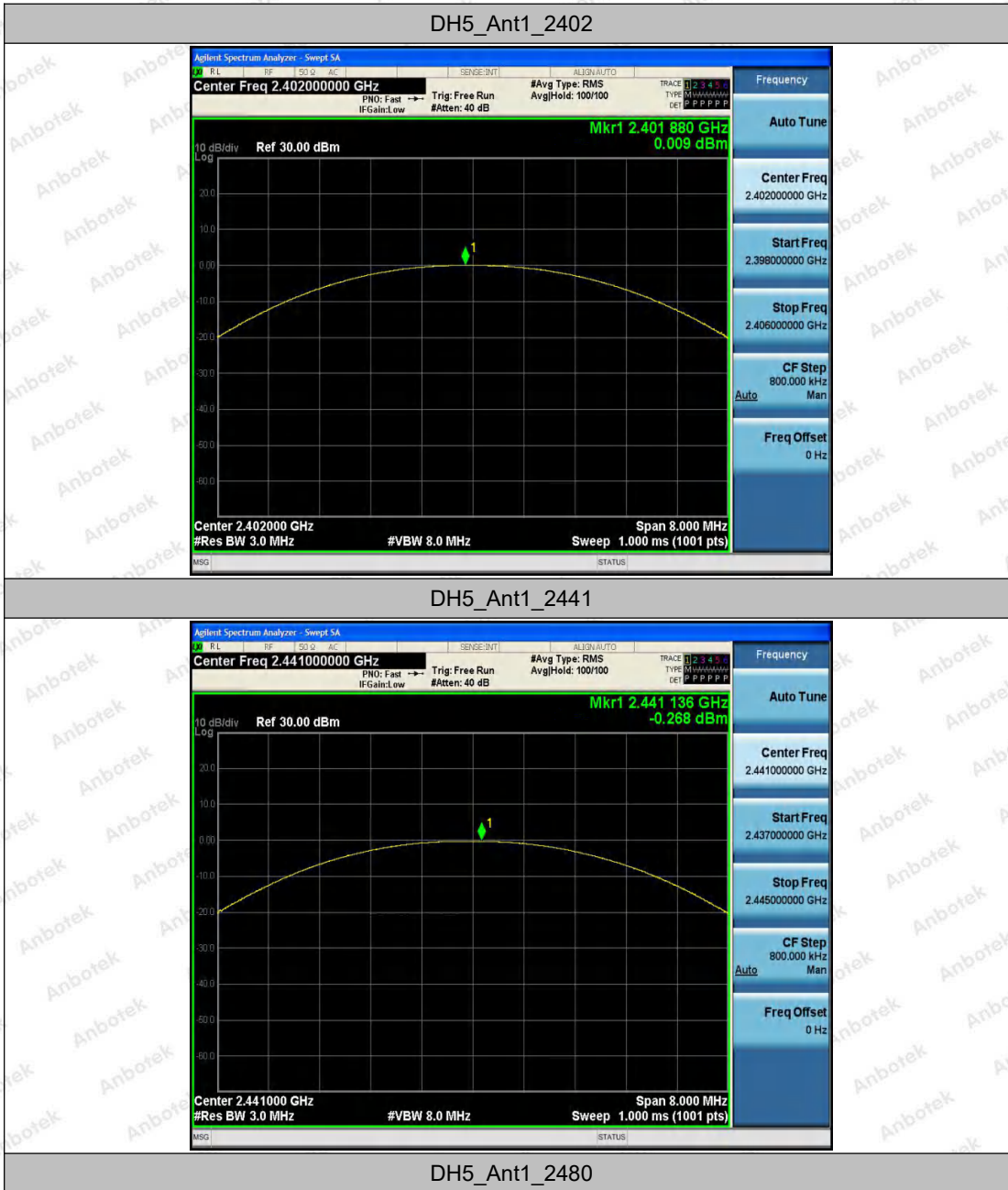
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.01	≤20.97	PASS
		2441	-0.27	≤20.97	PASS
		2480	0.65	≤20.97	PASS
2DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	-0.7	≤20.97	PASS
		2480	-0.11	≤20.97	PASS
3DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.61	≤20.97	PASS
		2480	0.09	≤20.97	PASS

Test Graphs



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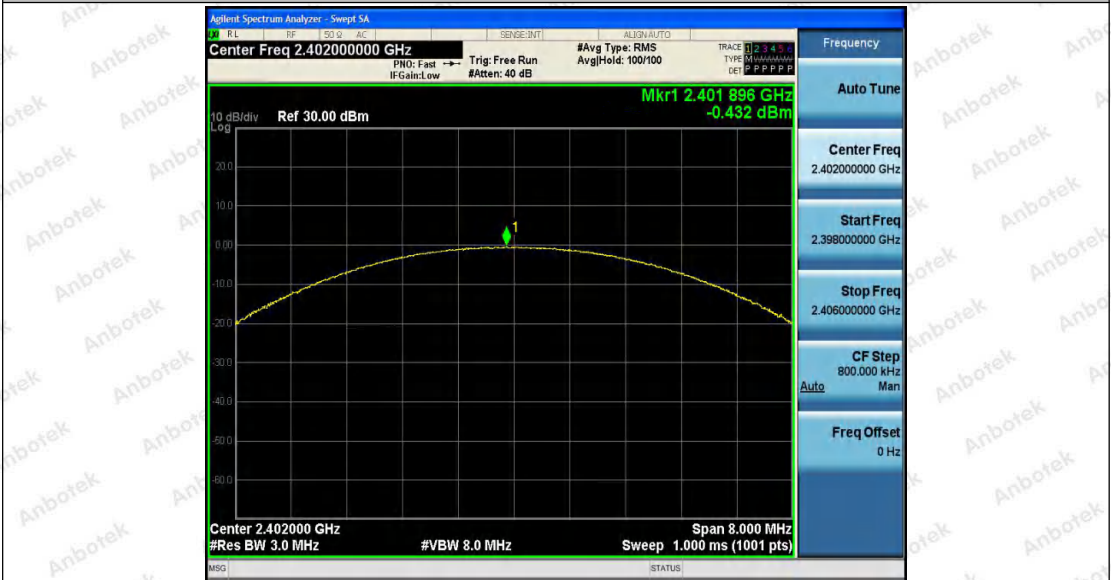
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2DH5_Ant1_2402



2DH5_Ant1_2441

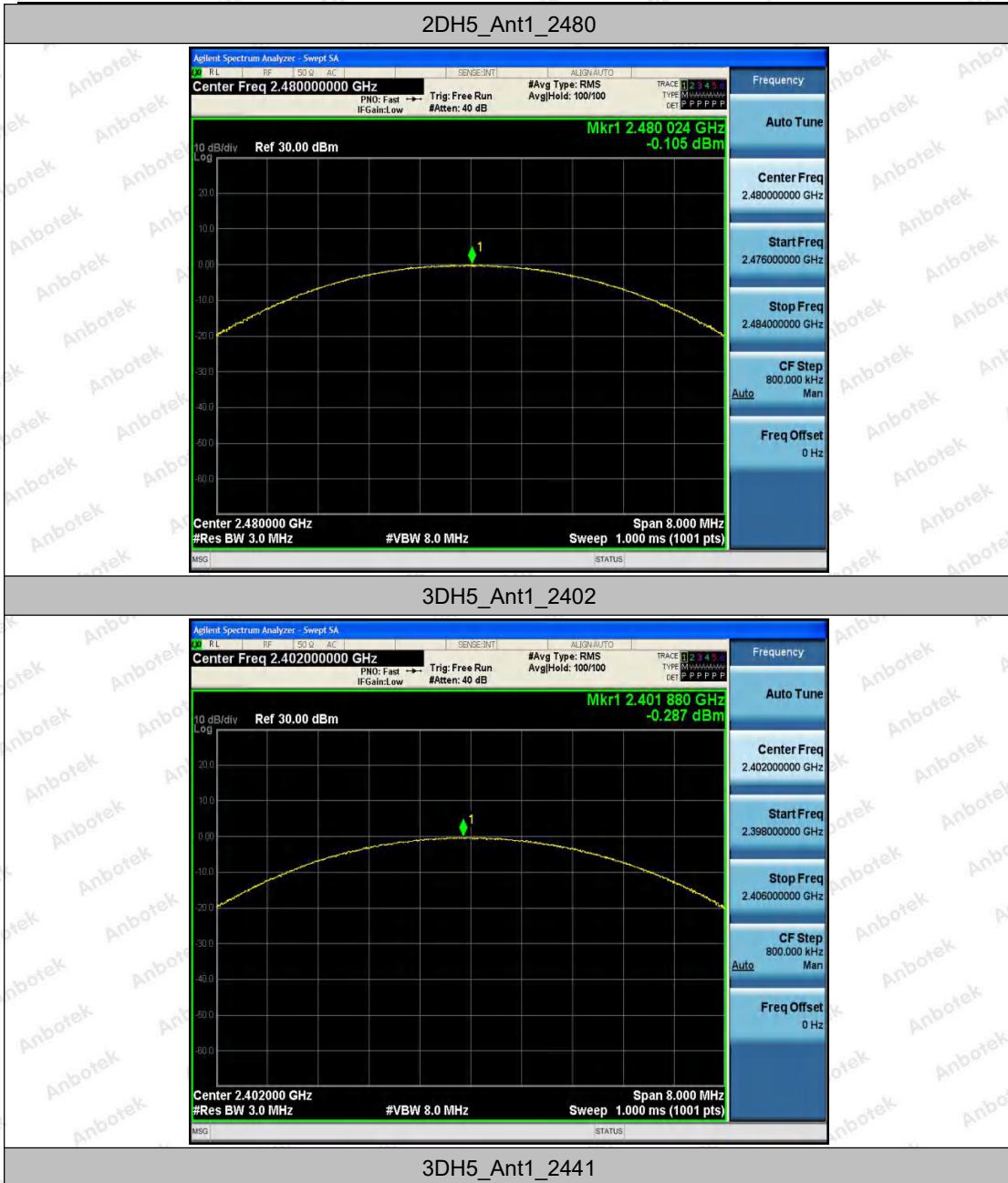


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.022	≥0.945	PASS
2DH5	Ant1	Hop	1.346	≥0.892	PASS
3DH5	Ant1	Hop	0.918	≥0.880	PASS

Test Graphs





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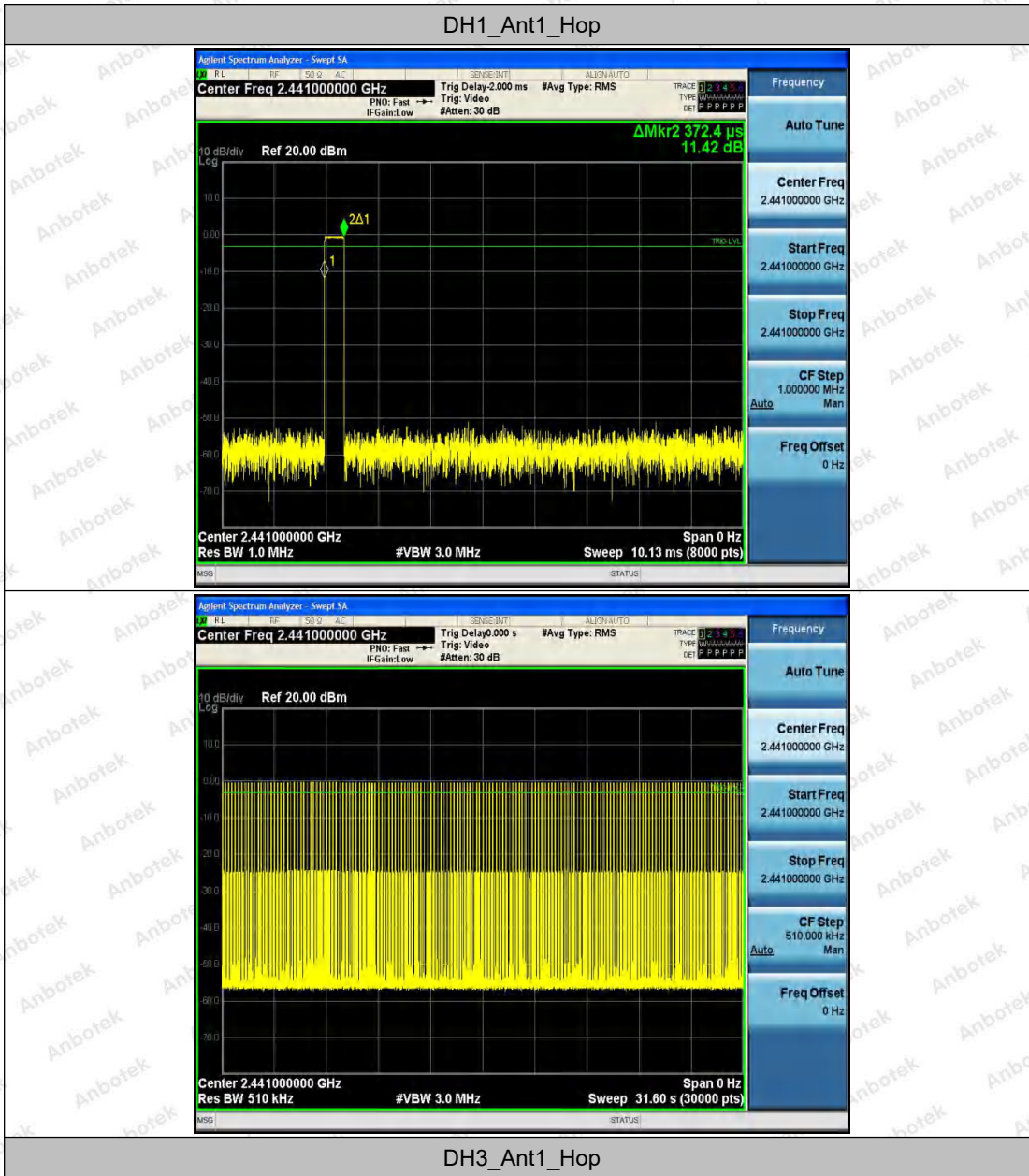
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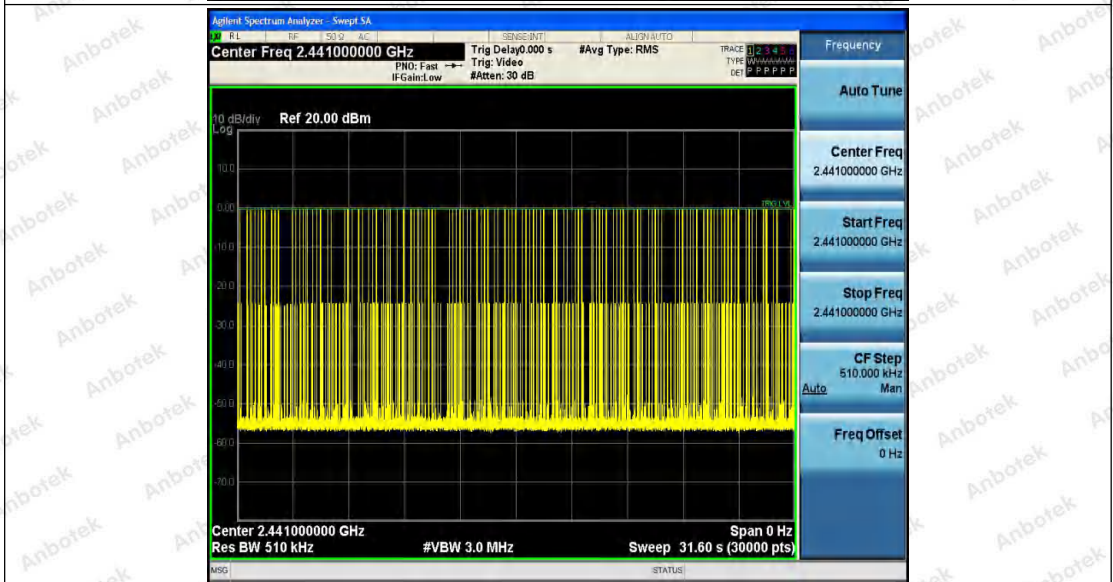
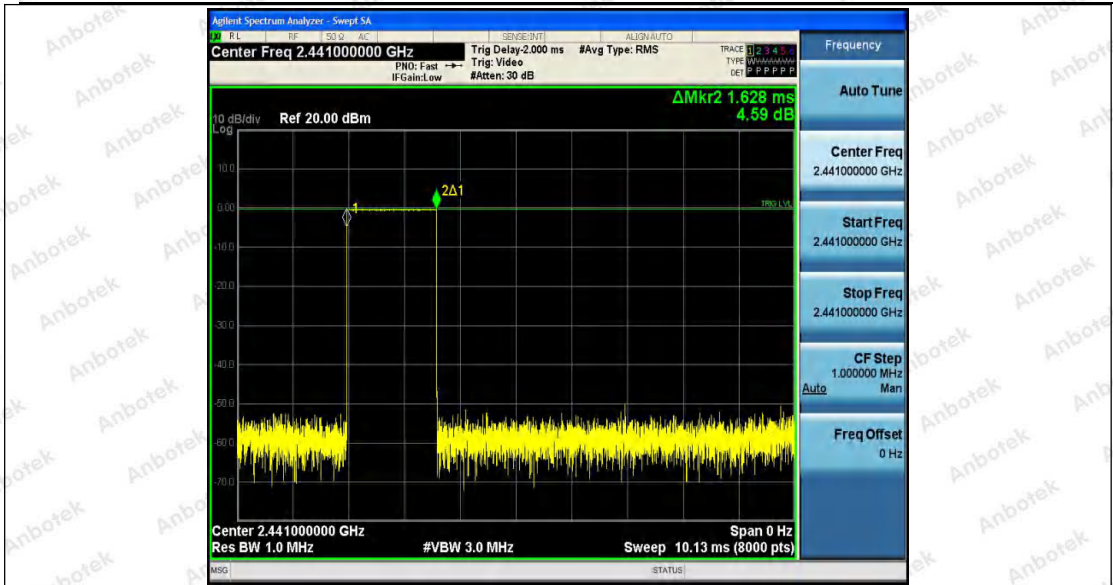
Appendix E: Time of occupancy

Test Result

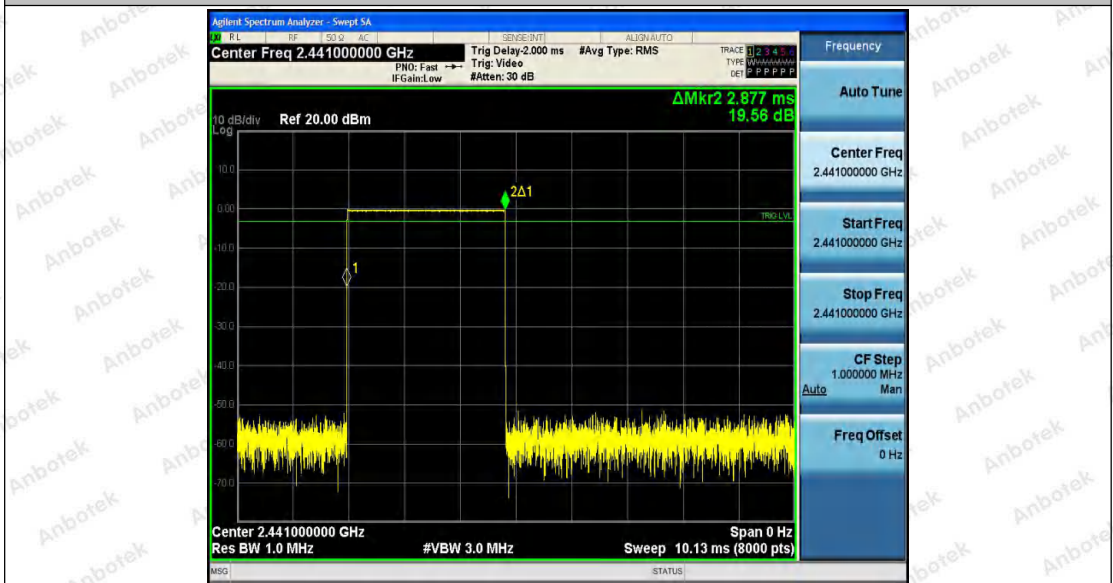
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	111	0.32	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

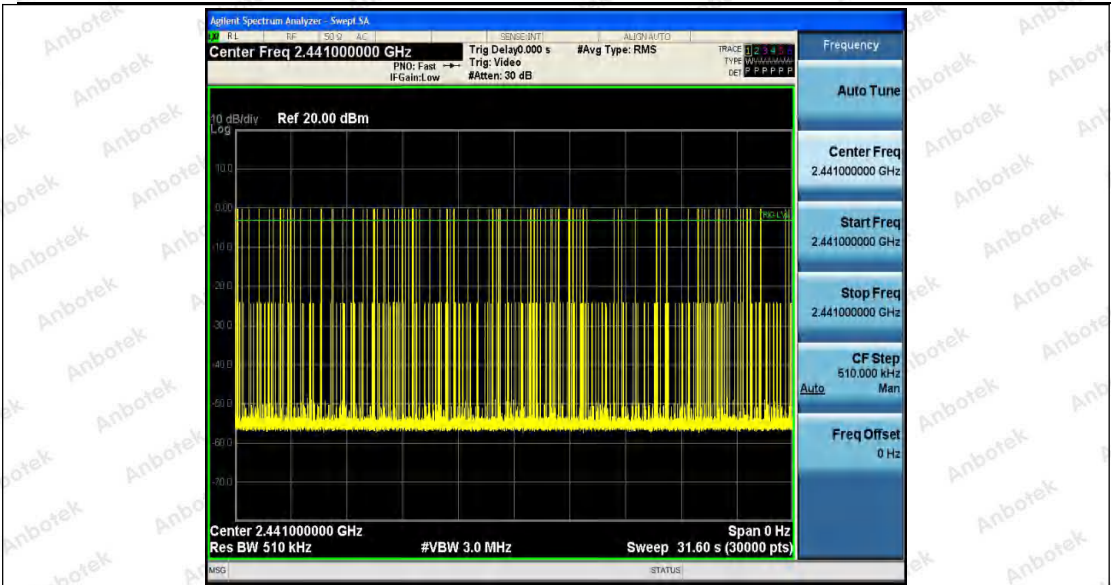


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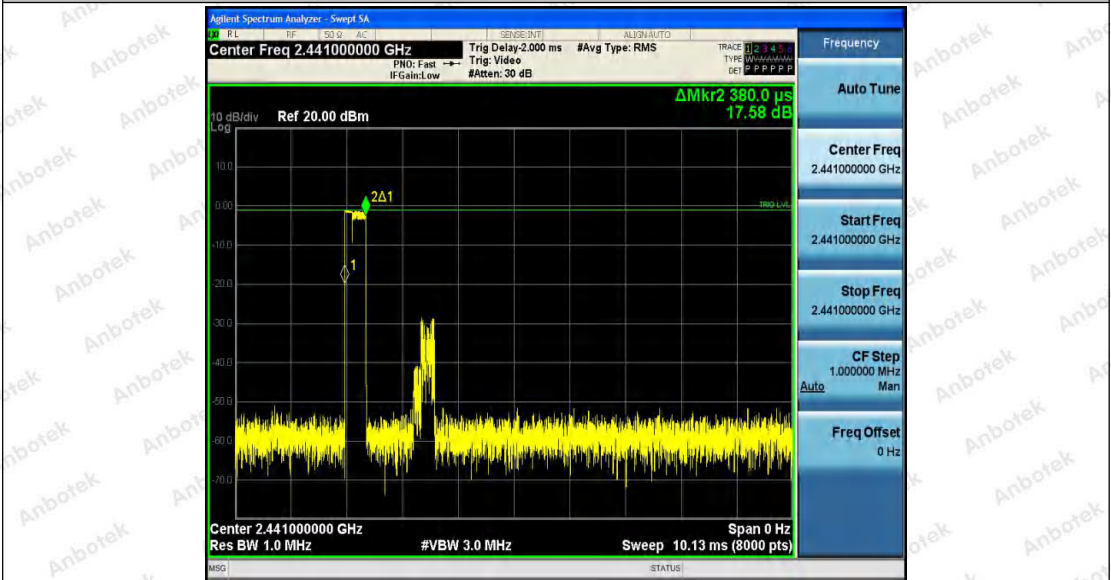
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2DH1_Ant1_Hop

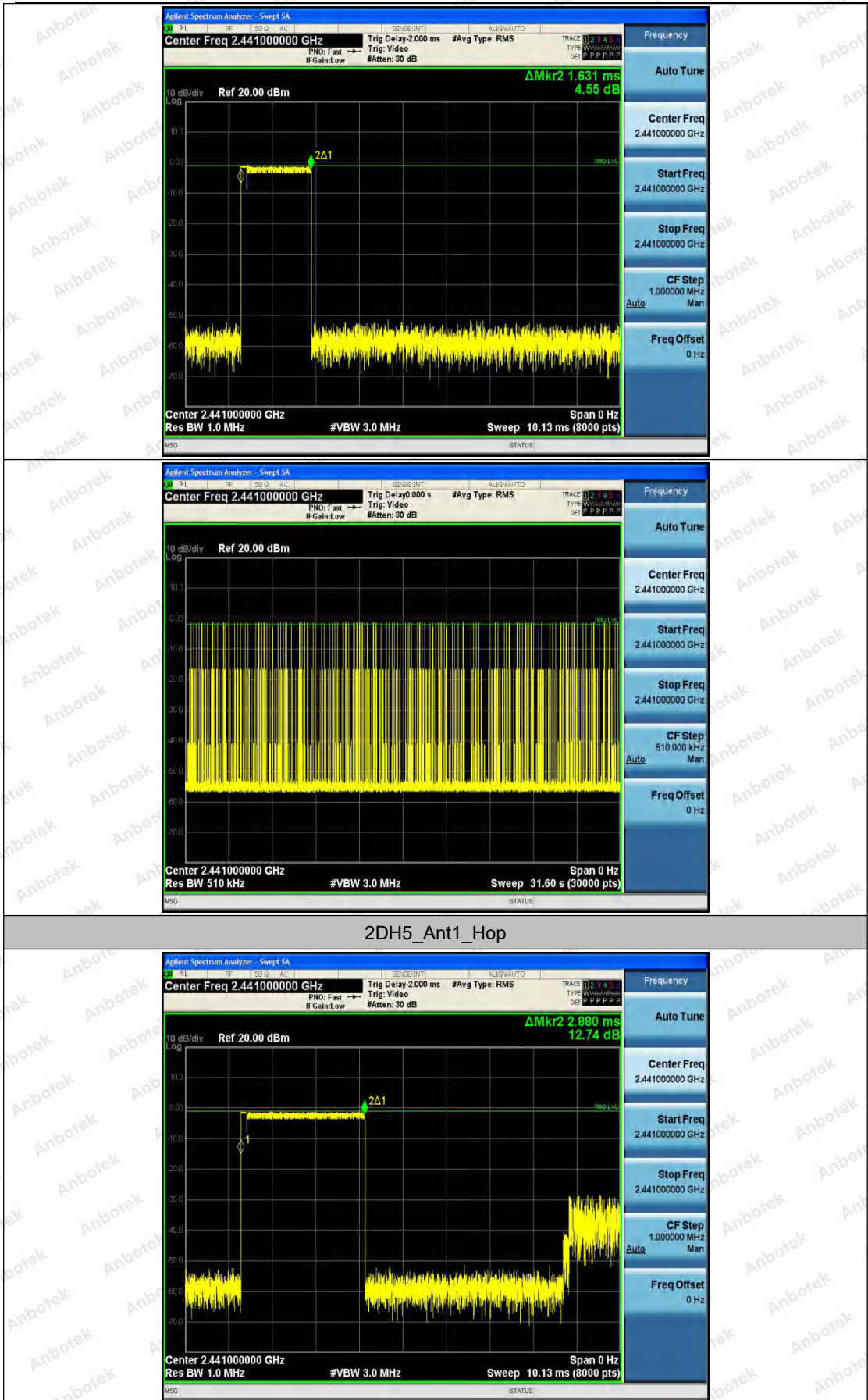


2DH3_Ant1_Hop

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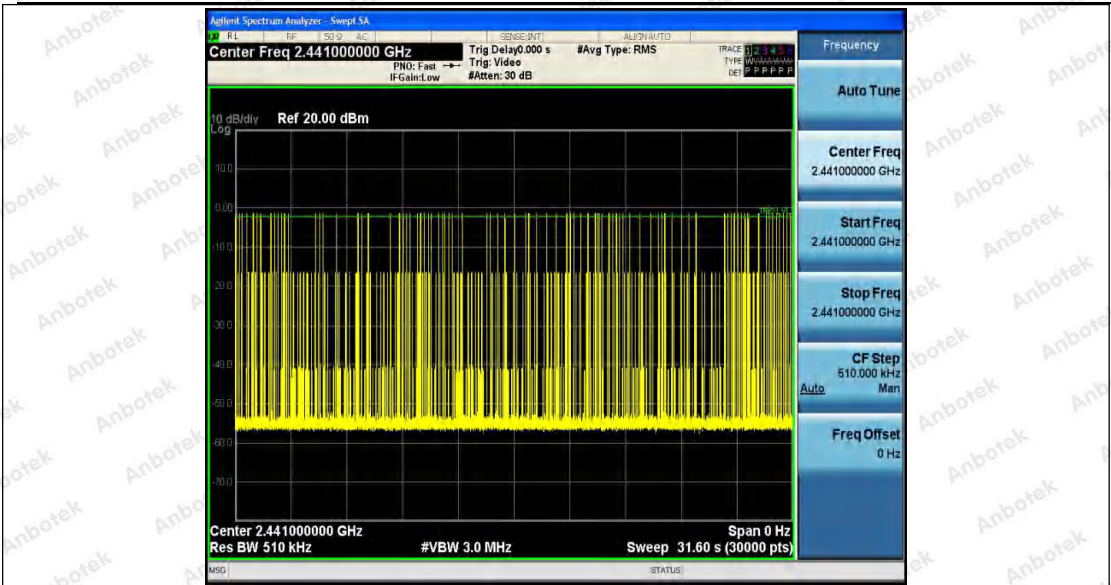
2DH5_Ant1_Hop

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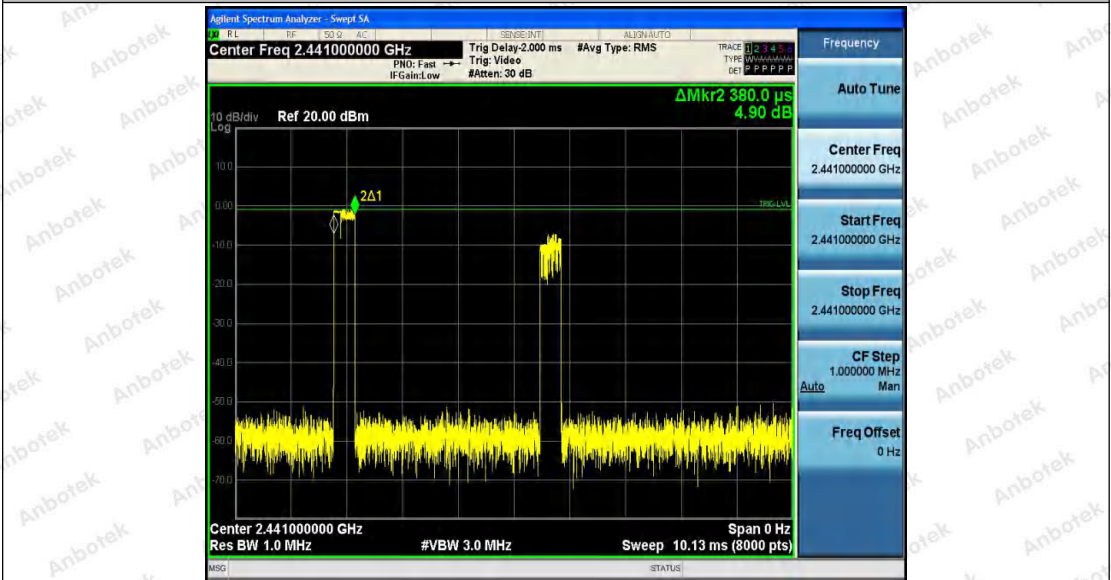
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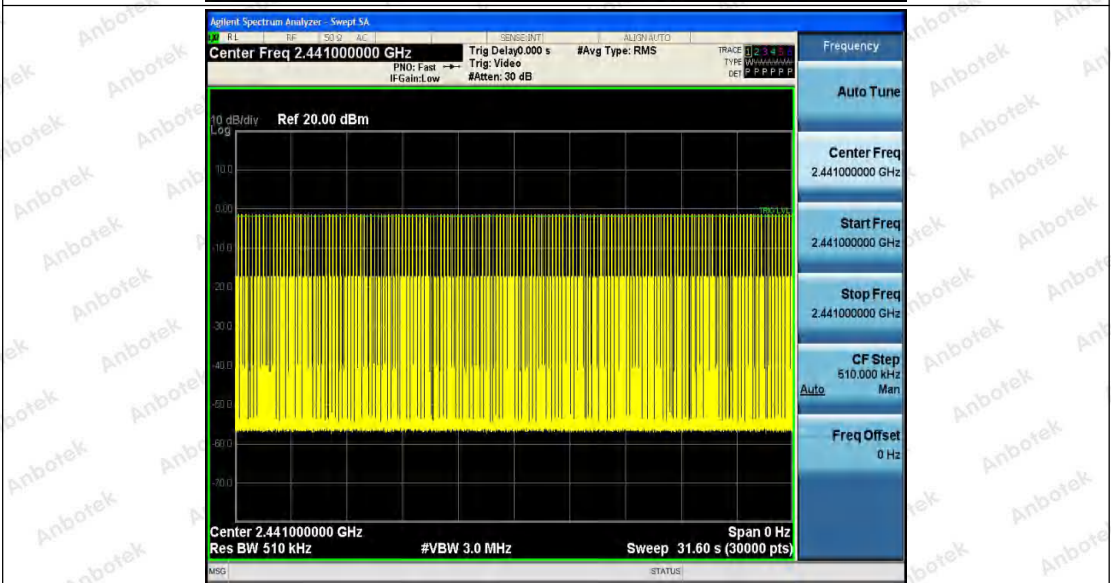
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



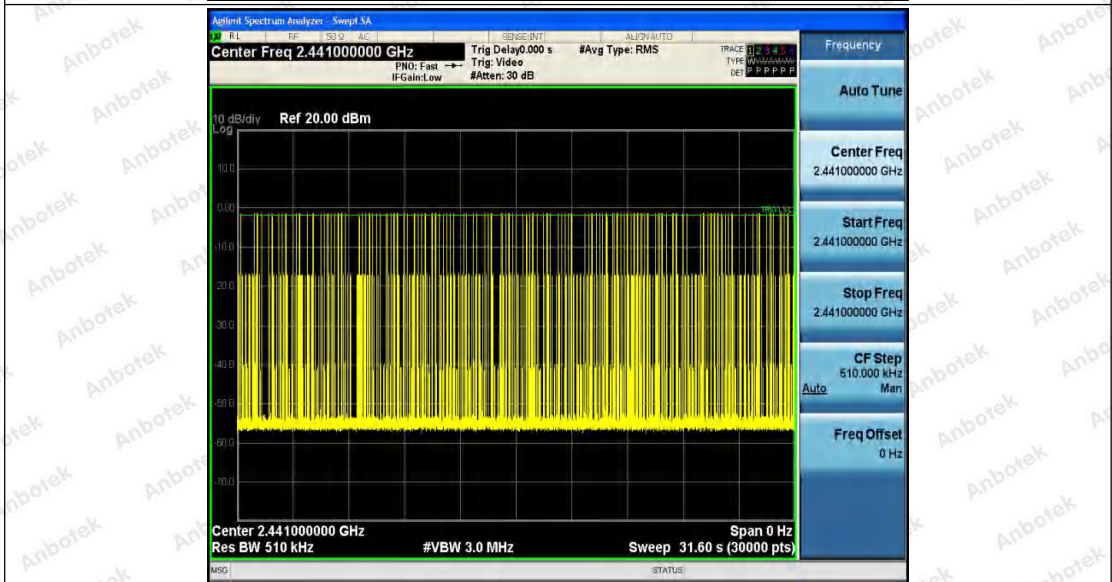
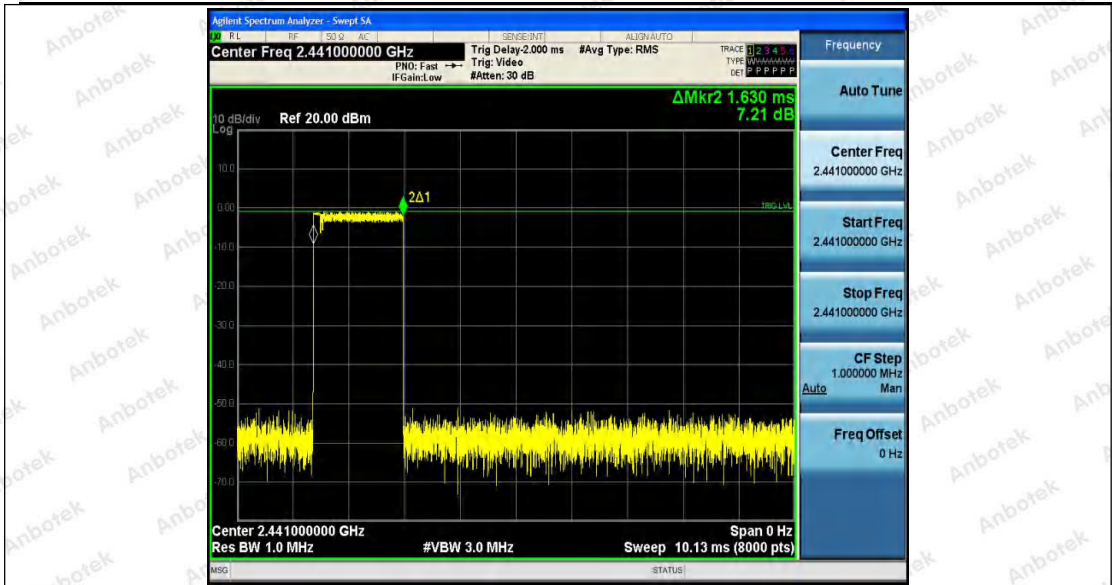
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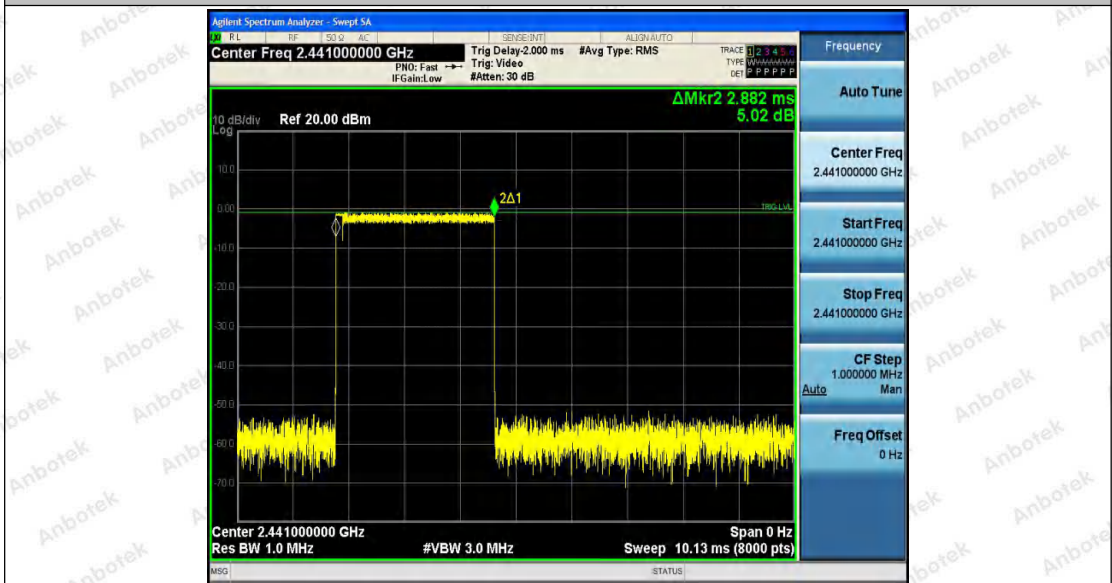
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3DH5_Ant1_Hop

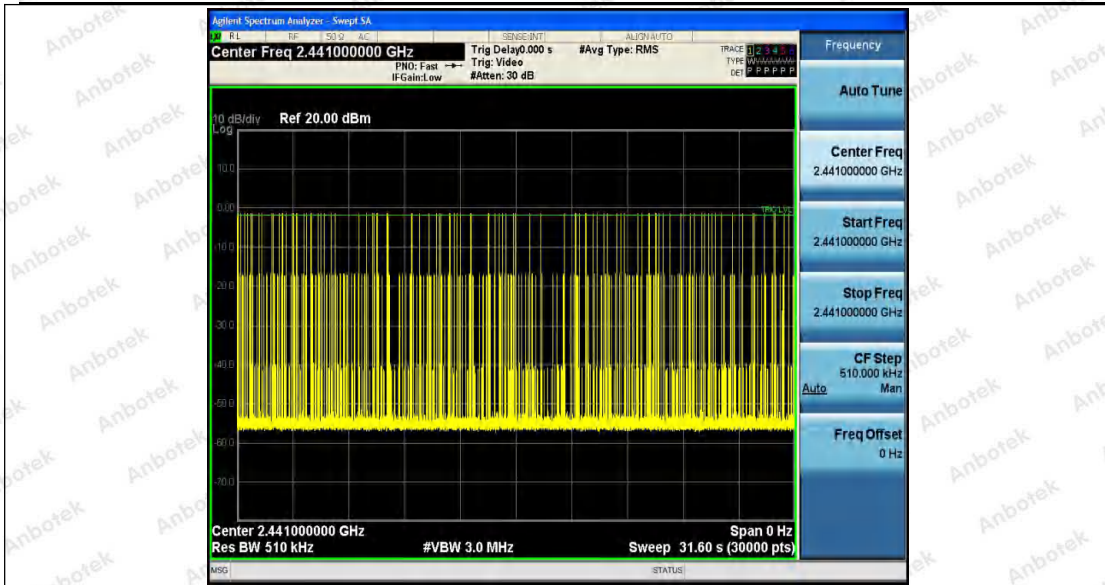


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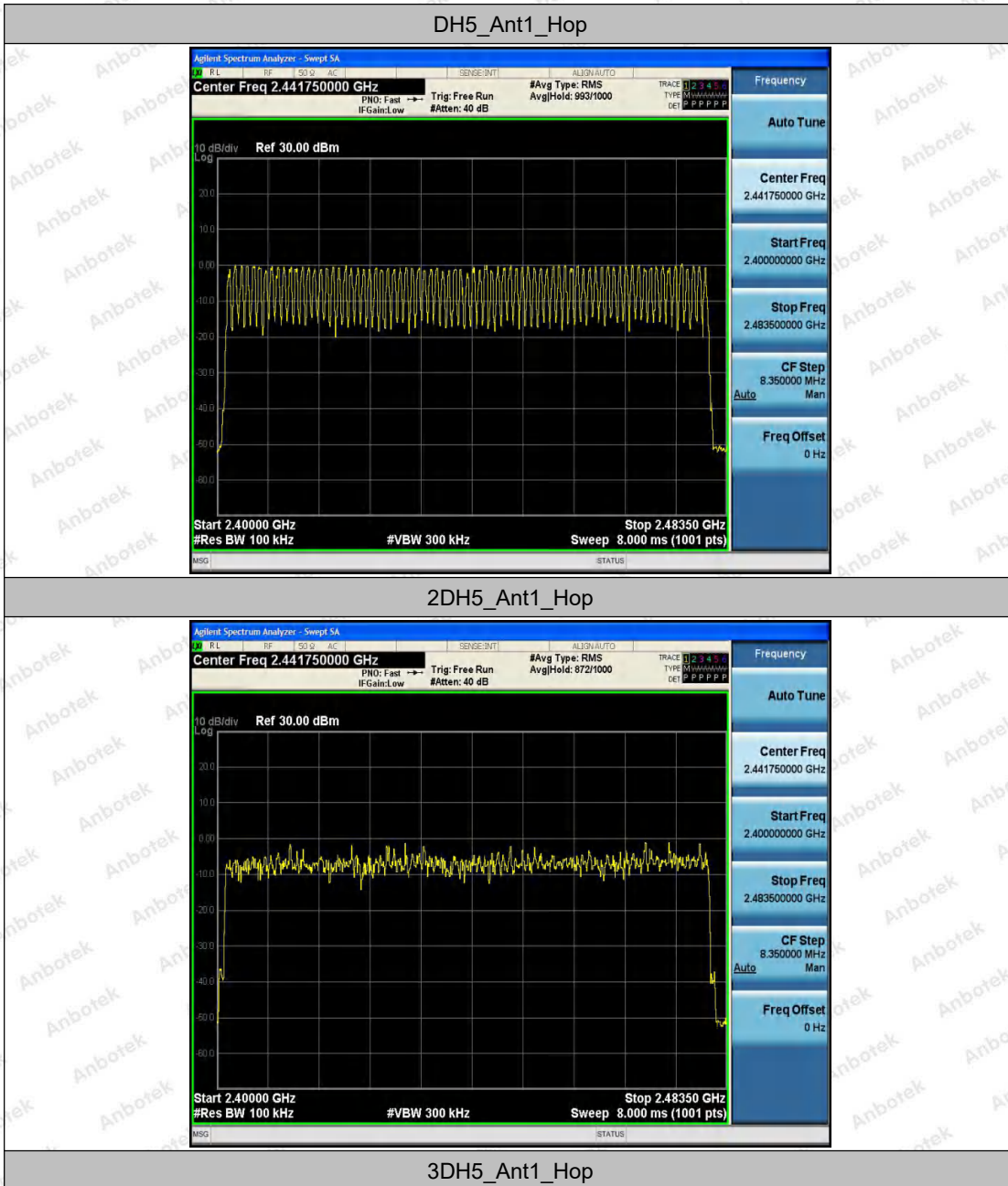
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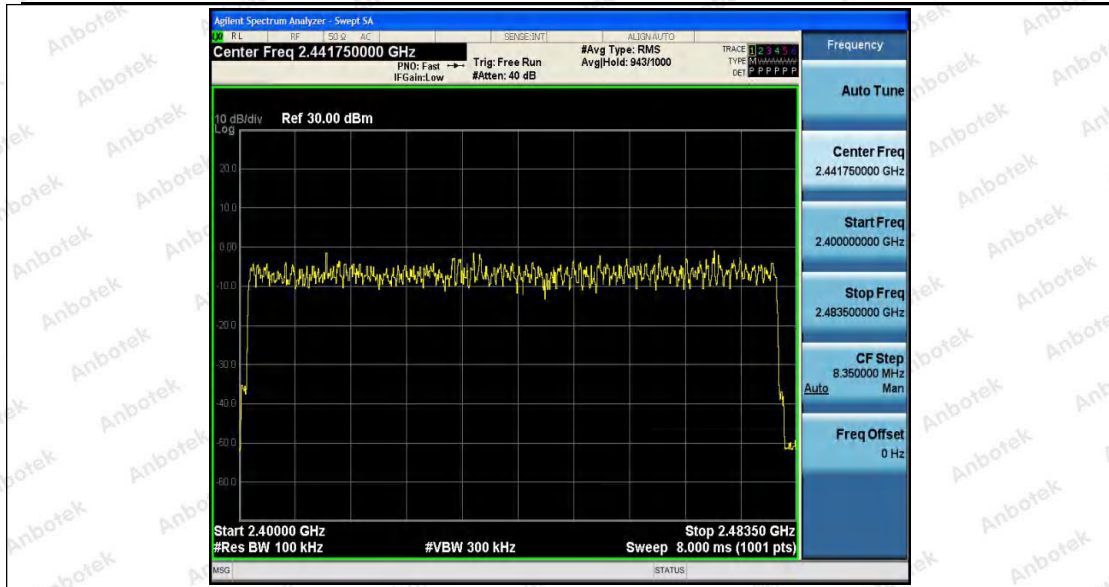
Appendix F: Number of hopping channels

Test Result

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

Test Graphs





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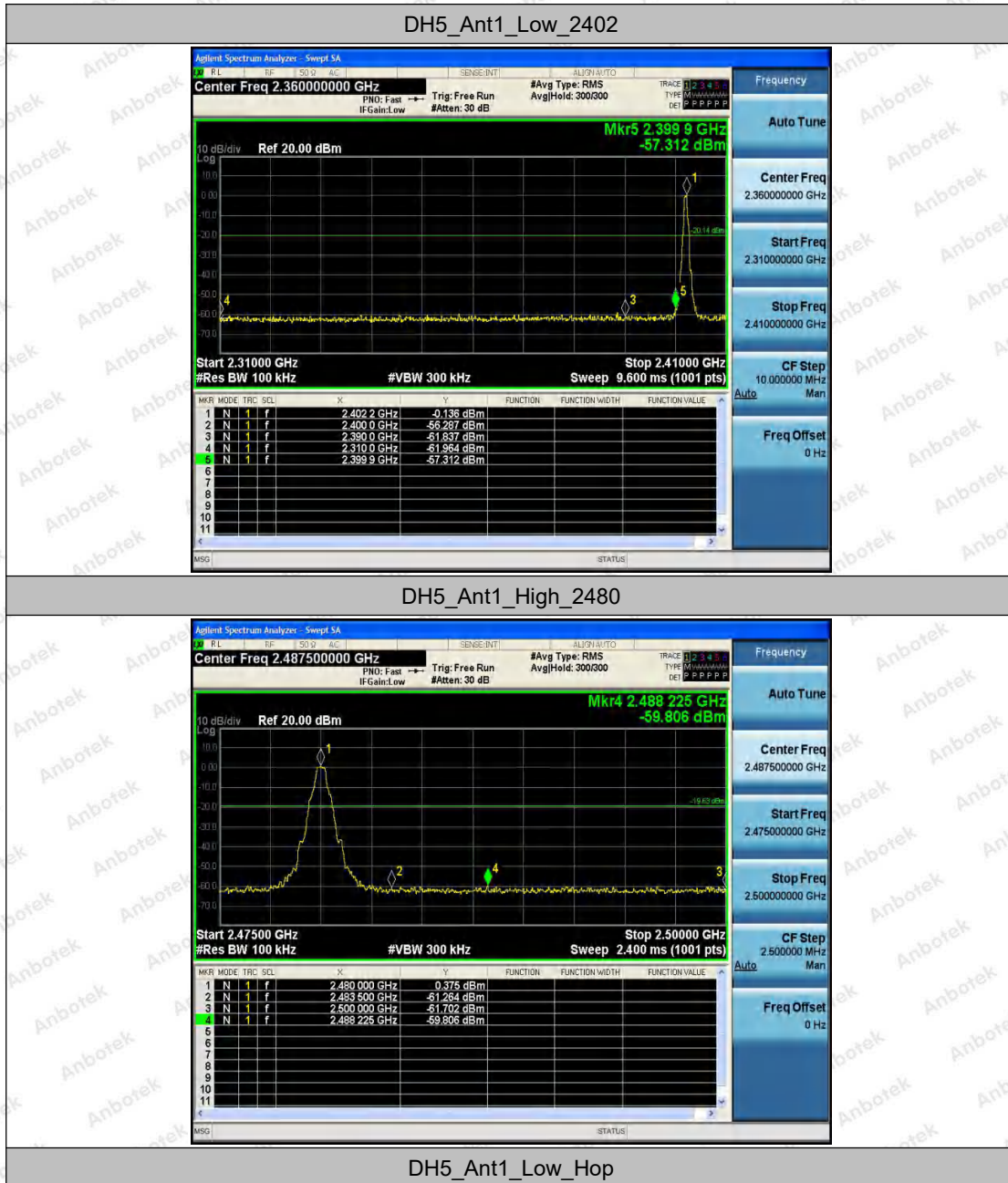
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Appendix G: Band edge measurements

Test Result

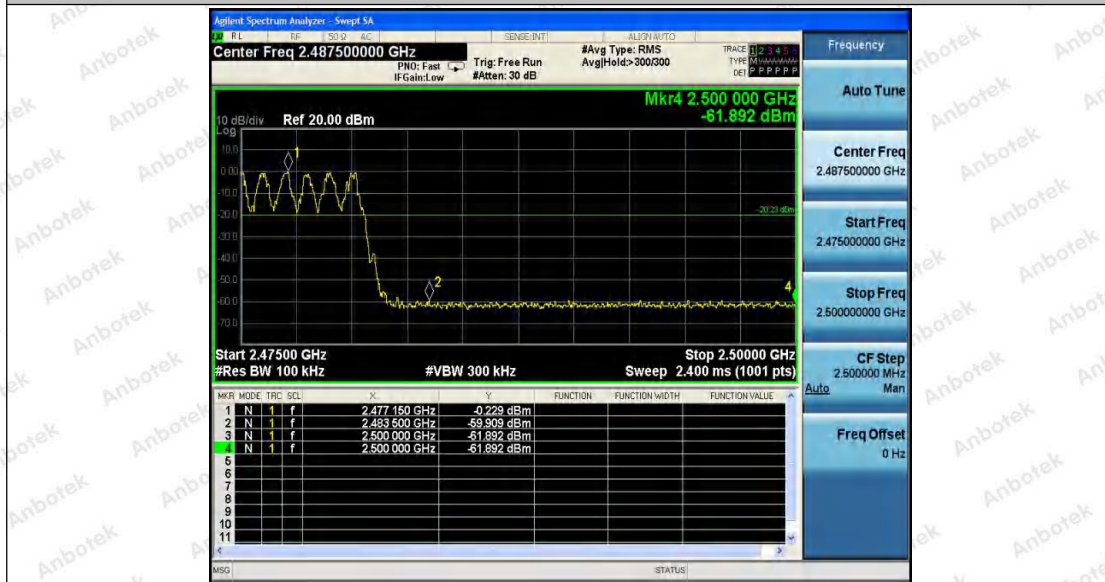
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.14	-57.31	≤-20.14	PASS
		High	2480	0.38	-59.81	≤-19.63	PASS
		Low	Hop	-0.02	-59.17	≤-20.02	PASS
		High	Hop	-0.23	-61.89	≤-20.23	PASS
2DH5	Ant1	Low	2402	-1.25	-56.26	≤-21.25	PASS
		High	2480	-0.85	-58.97	≤-20.85	PASS
		Low	Hop	-3.05	-59.66	≤-23.05	PASS
		High	Hop	-3.74	-62.41	≤-23.74	PASS
3DH5	Ant1	Low	2402	-1.15	-56.56	≤-21.15	PASS
		High	2480	-0.78	-59.59	≤-20.78	PASS
		Low	Hop	-1.67	-58.91	≤-21.67	PASS
		High	Hop	-2.14	-62.65	≤-22.14	PASS

Test Graphs

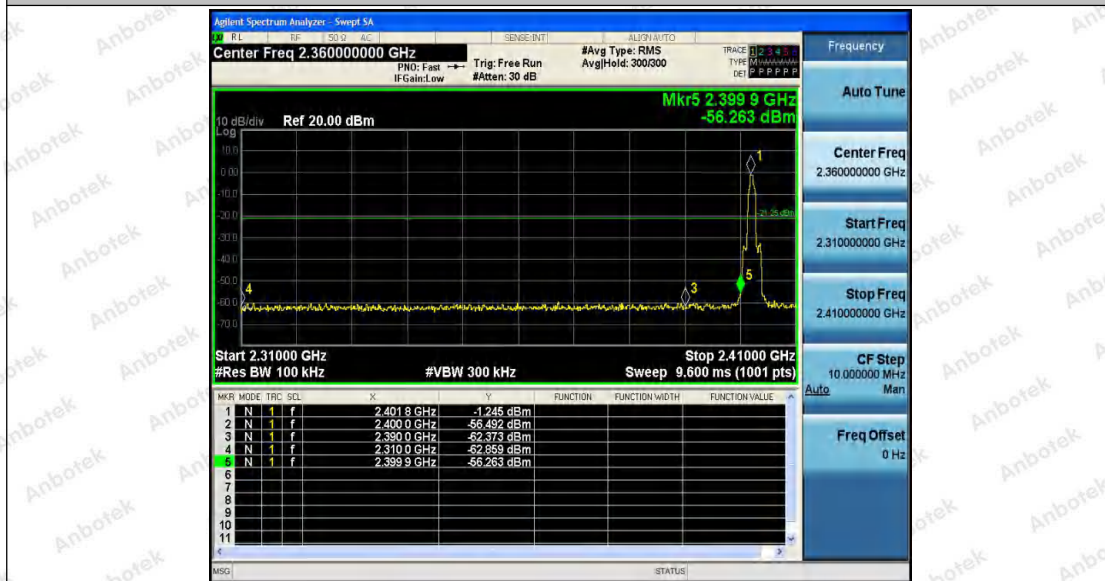




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



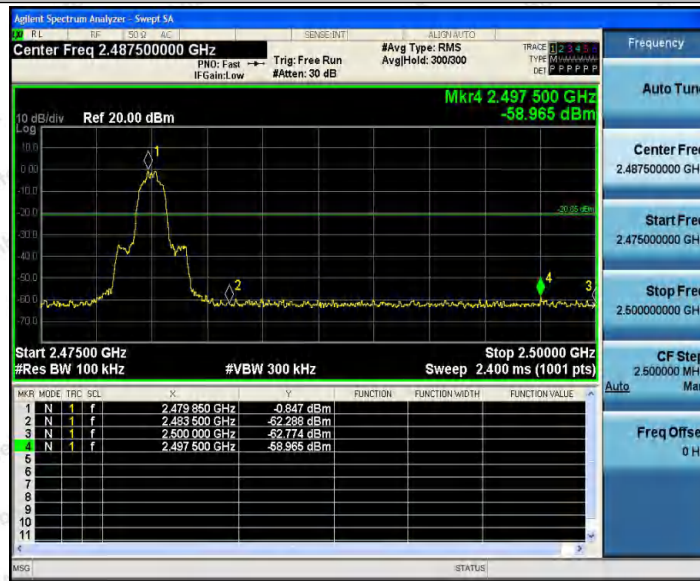
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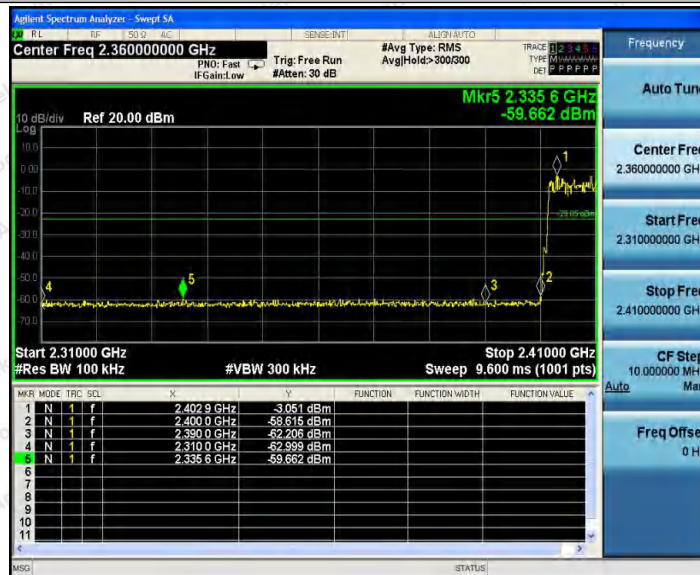
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



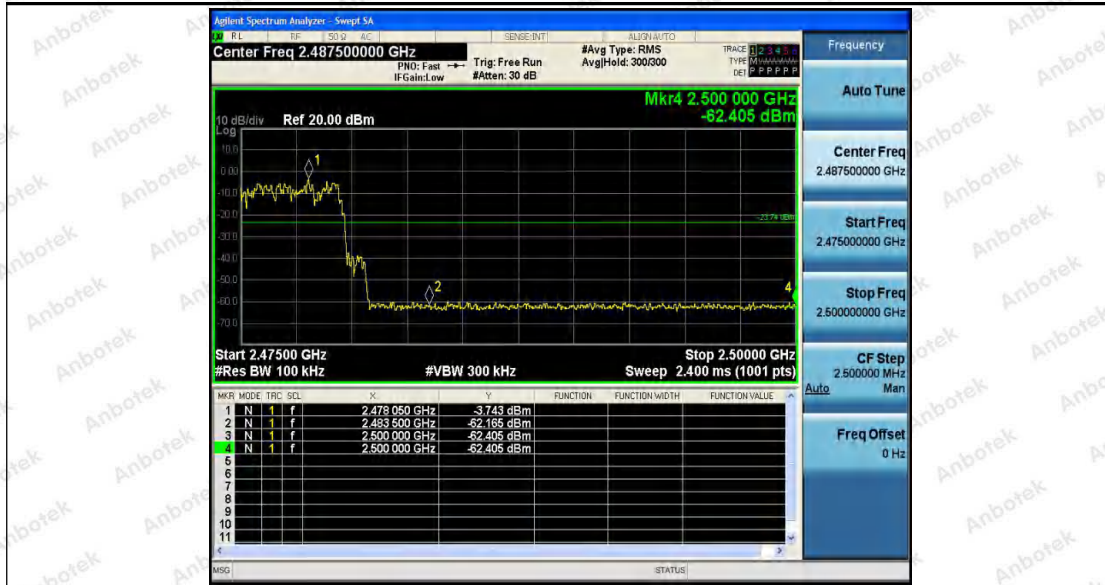
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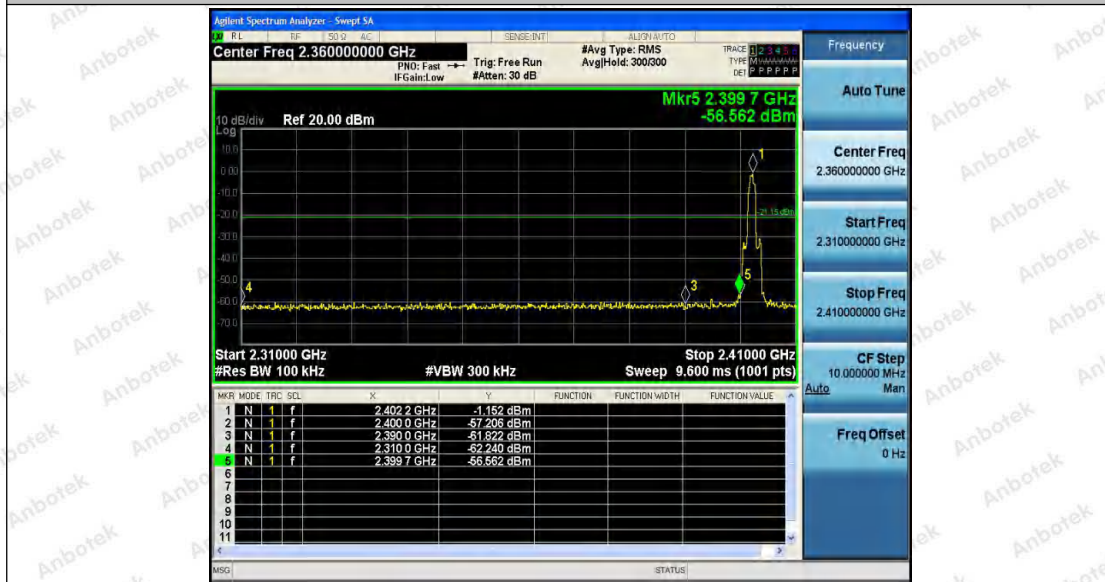
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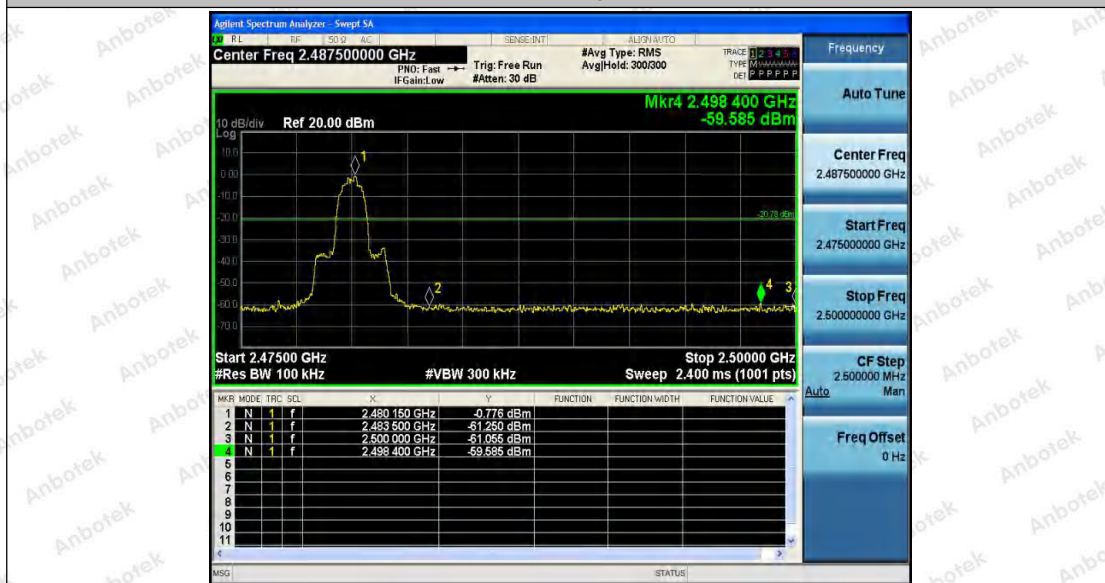
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3DH5_Ant1_Low_2402



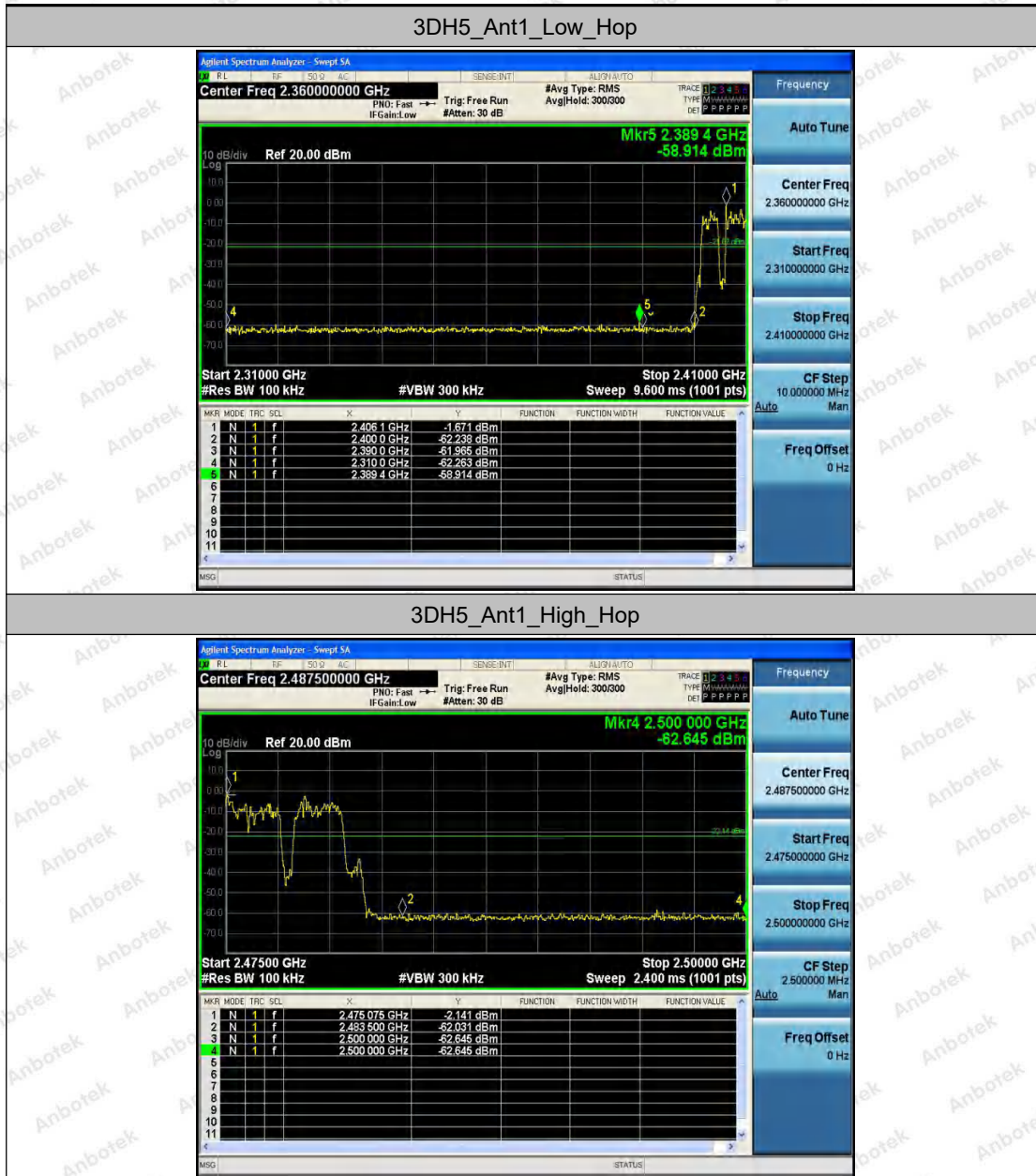
3DH5_Ant1_High_2480



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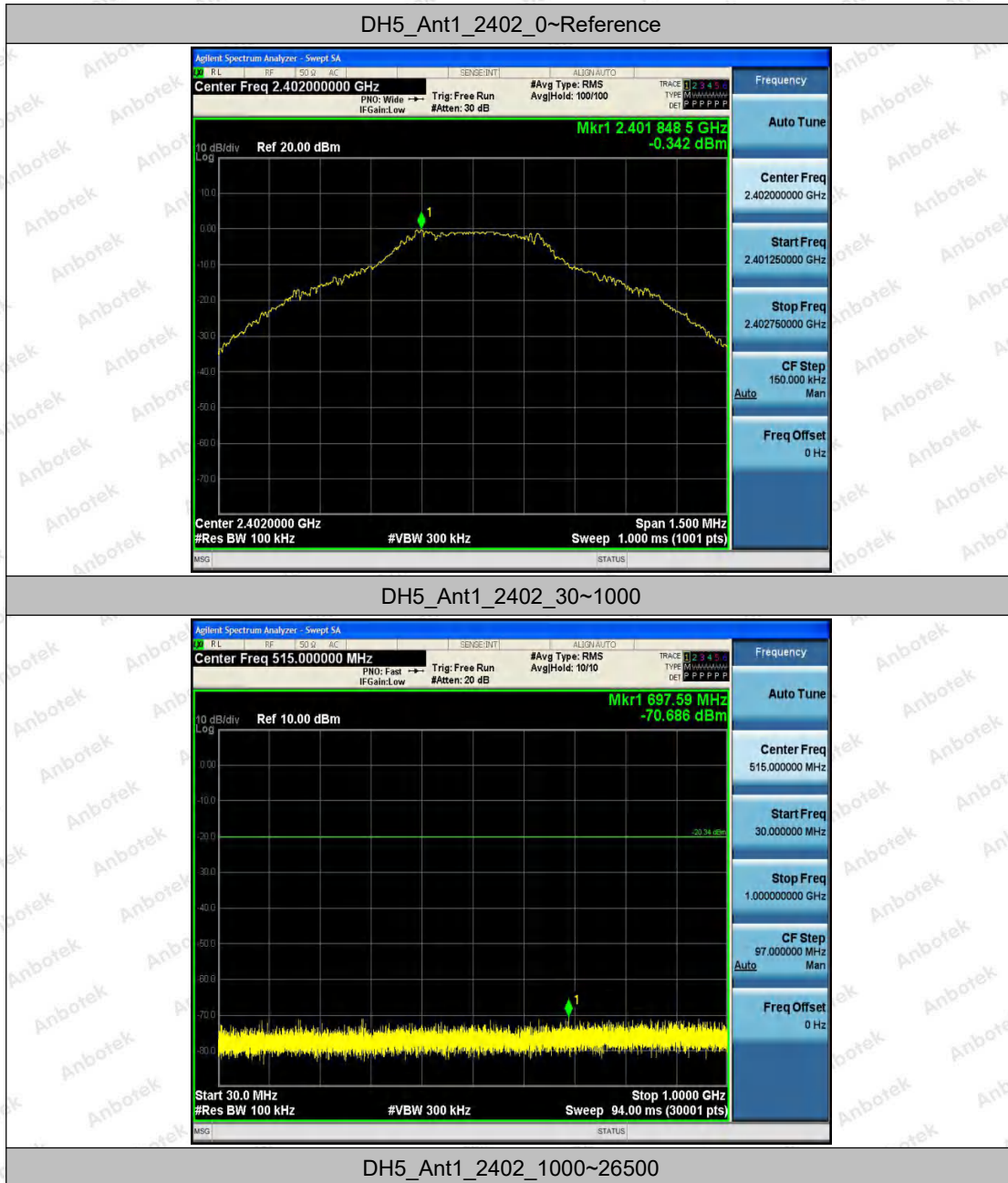
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-70.69	≤-20.34	PASS
			1000~26500	-0.34	-55.16	≤-20.34	PASS
		2441	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-70.86	≤-20.8	PASS
			1000~26500	-0.80	-56.18	≤-20.8	PASS
		2480	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-69.4	≤-19.58	PASS
			1000~26500	0.42	-55.53	≤-19.58	PASS
2DH5	Ant1	2402	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-70.52	≤-21.56	PASS
			1000~26500	-1.56	-54.74	≤-21.56	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.45	≤-21.71	PASS
			1000~26500	-1.71	-55.7	≤-21.71	PASS
		2480	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-70.61	≤-21.56	PASS
			1000~26500	-1.56	-55.95	≤-21.56	PASS
3DH5	Ant1	2402	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-70.31	≤-21.29	PASS
			1000~26500	-1.29	-55.45	≤-21.29	PASS
		2441	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-70.32	≤-22.51	PASS
			1000~26500	-2.51	-55.35	≤-22.51	PASS
		2480	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-70.3	≤-21.73	PASS
			1000~26500	-1.73	-55.07	≤-21.73	PASS

Test Graphs

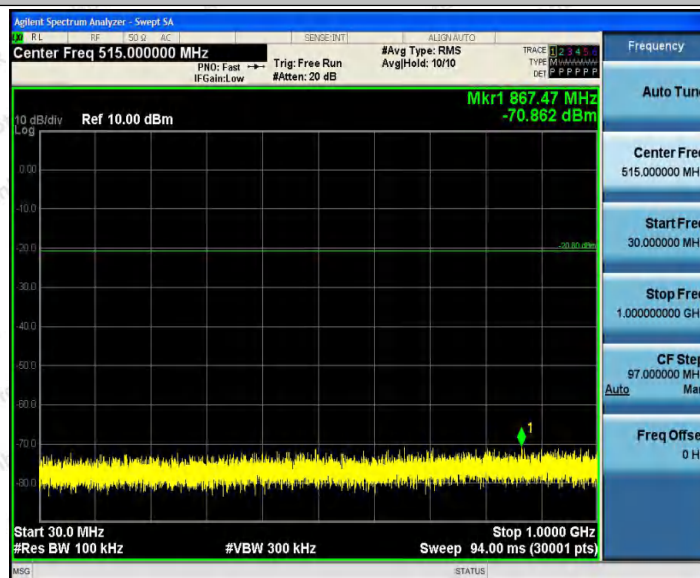




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

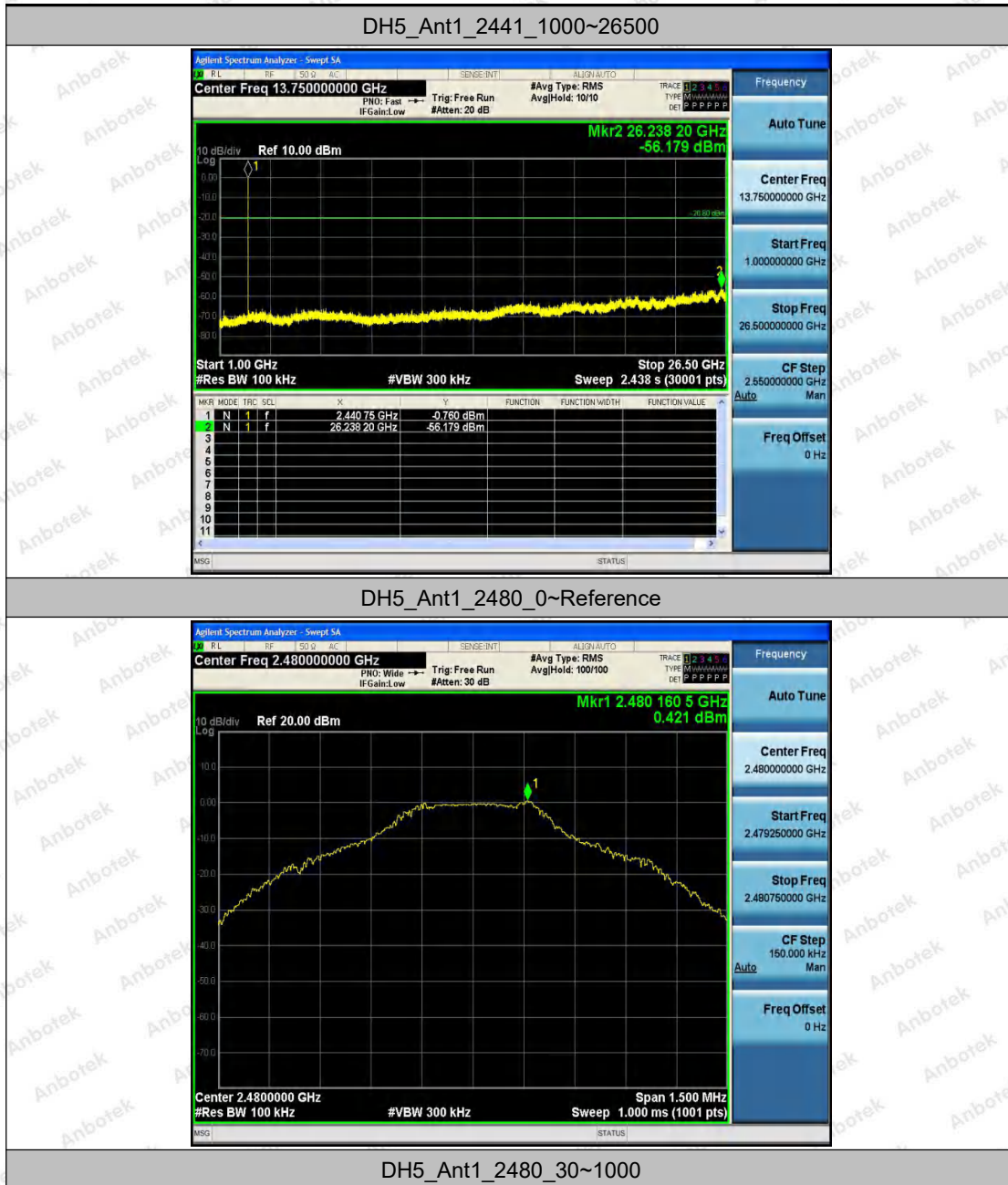


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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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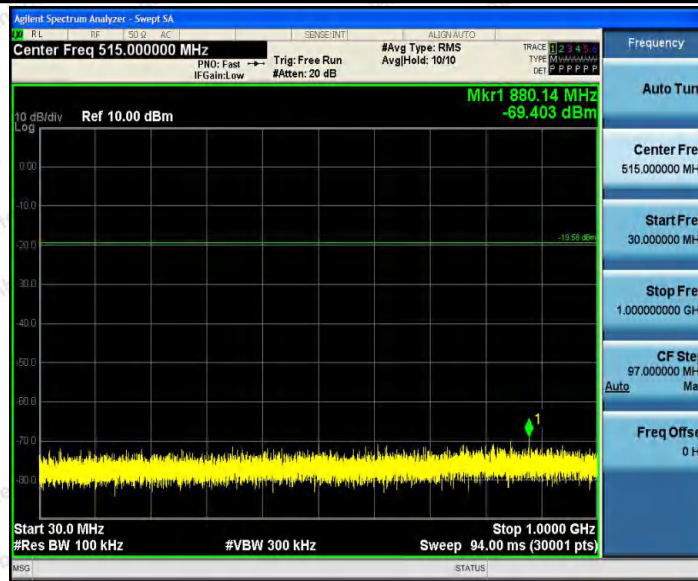
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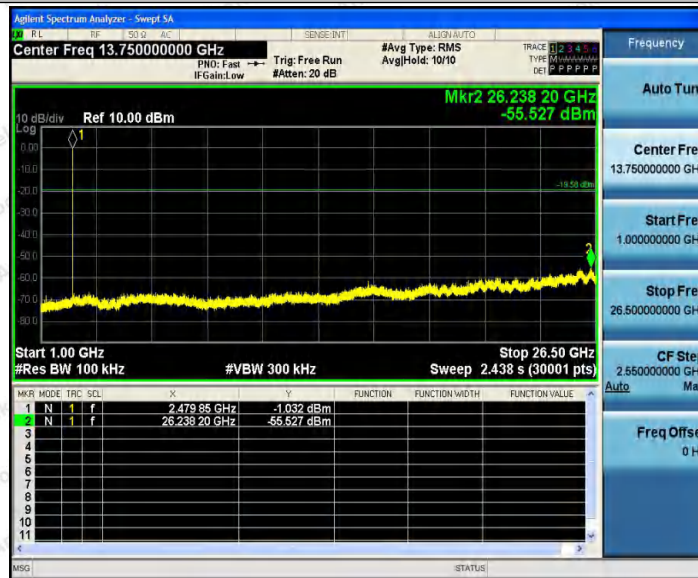
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

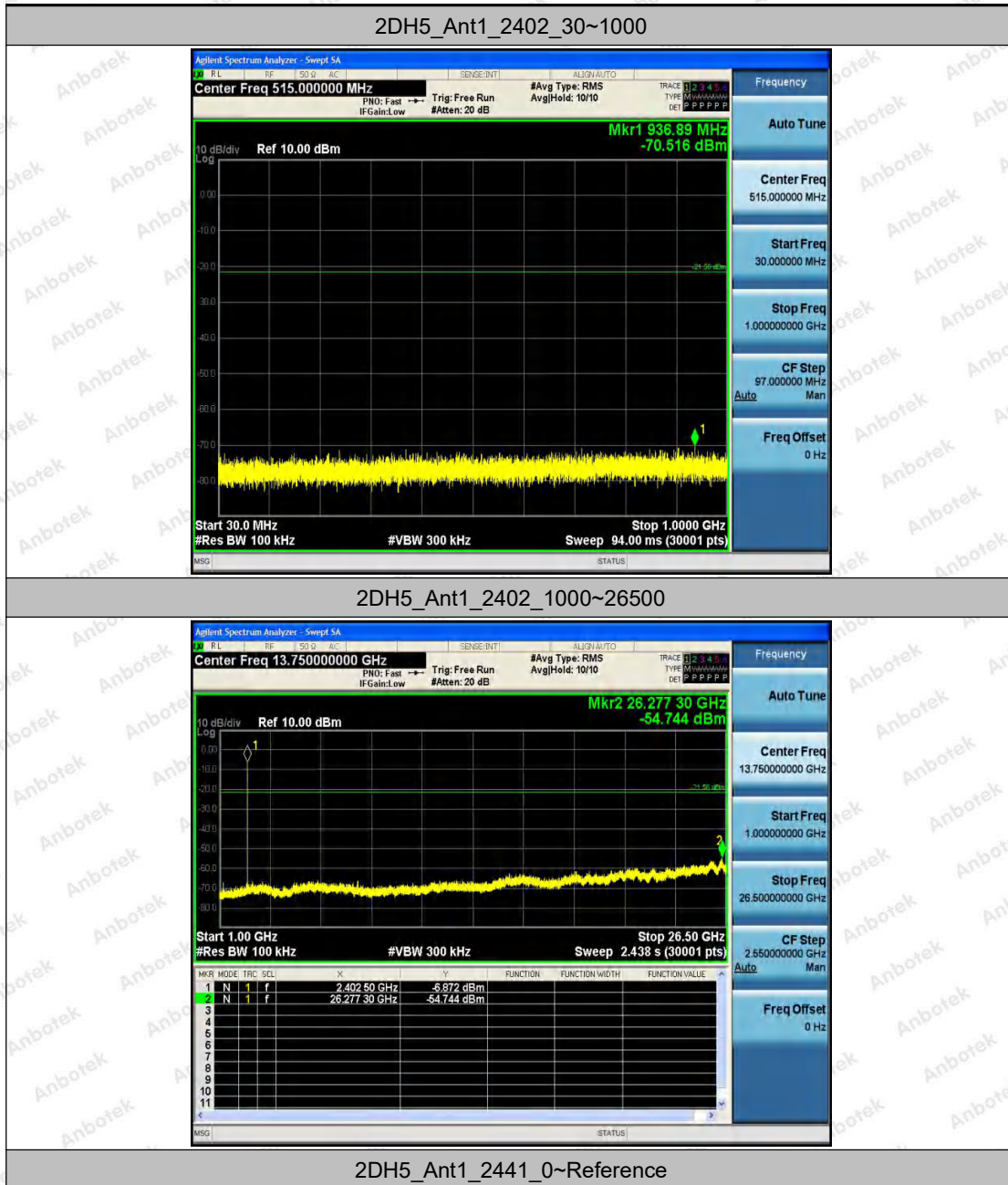


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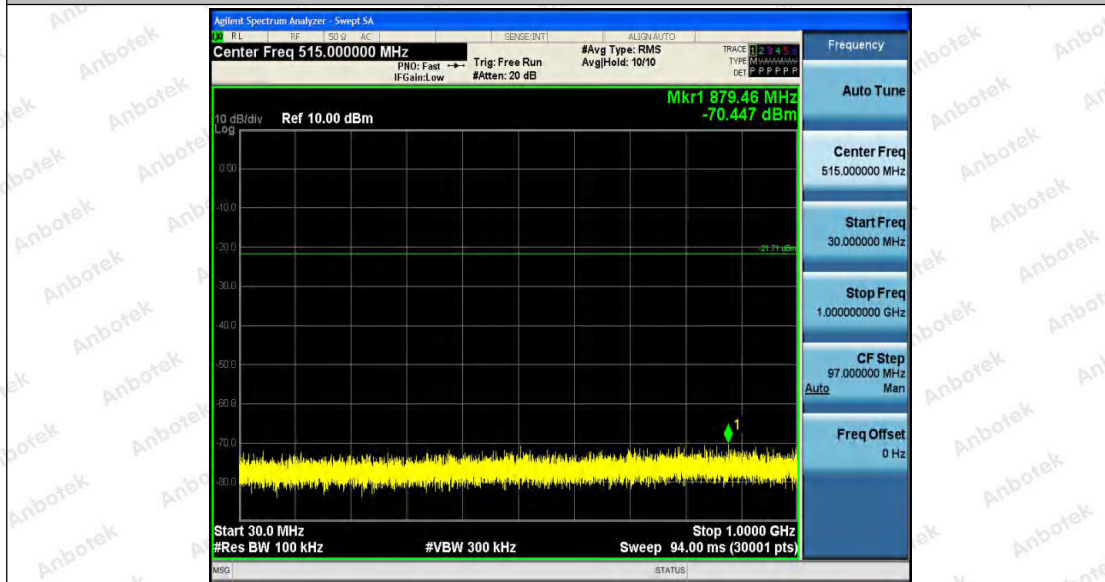
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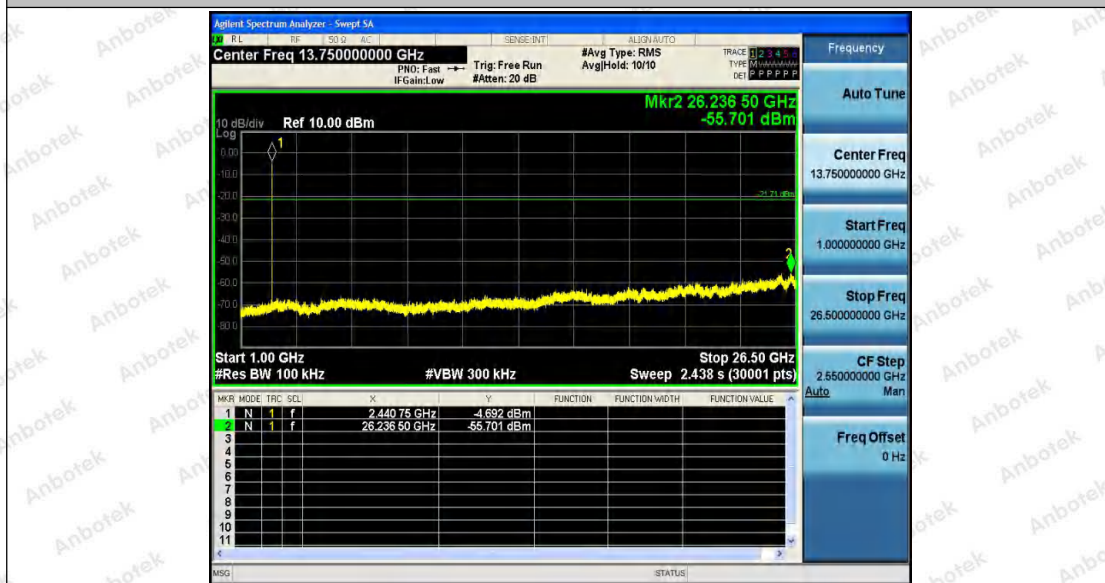
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

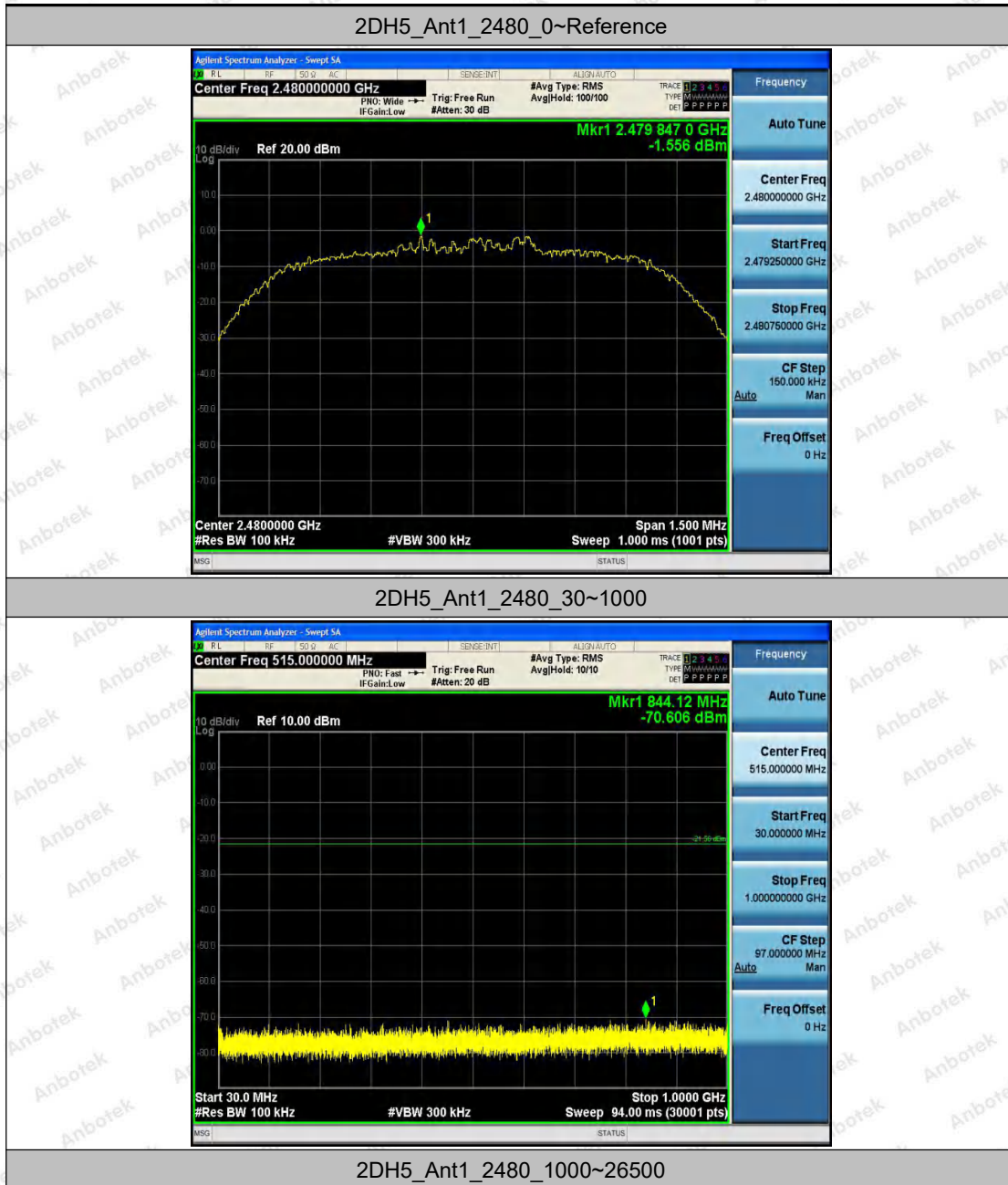


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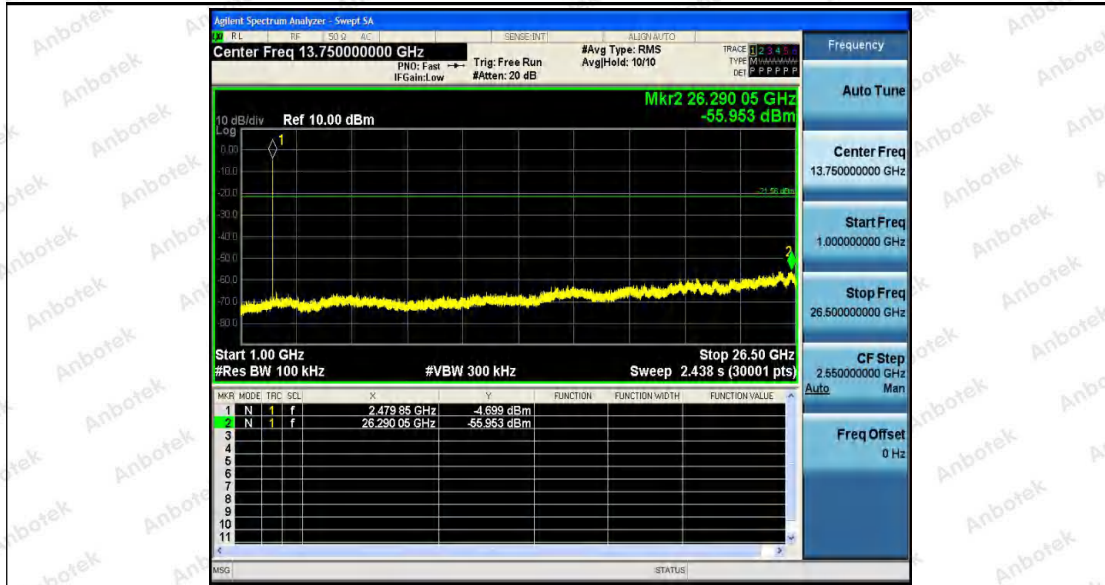
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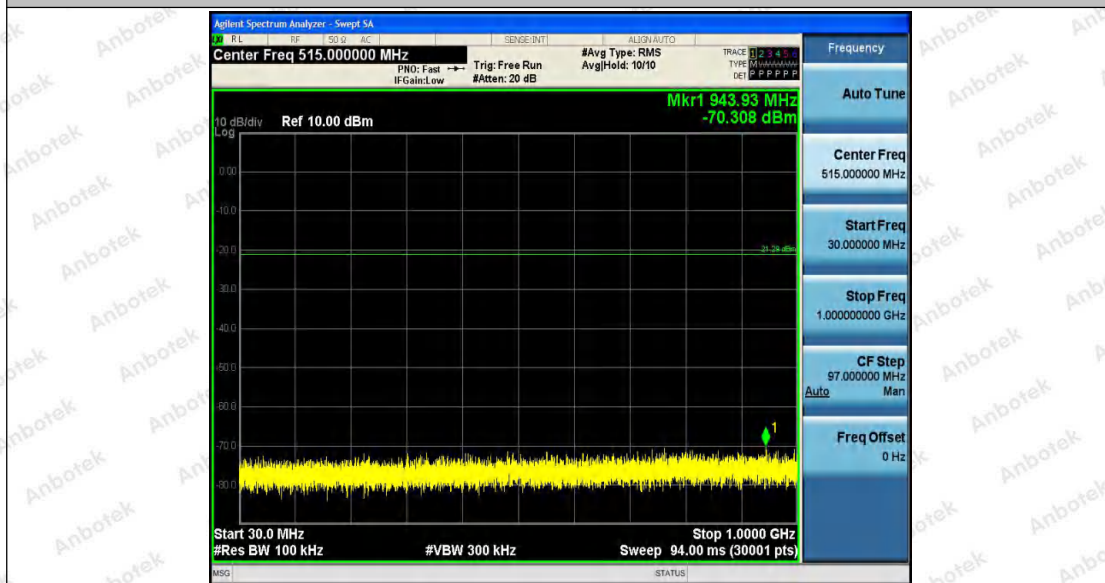
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

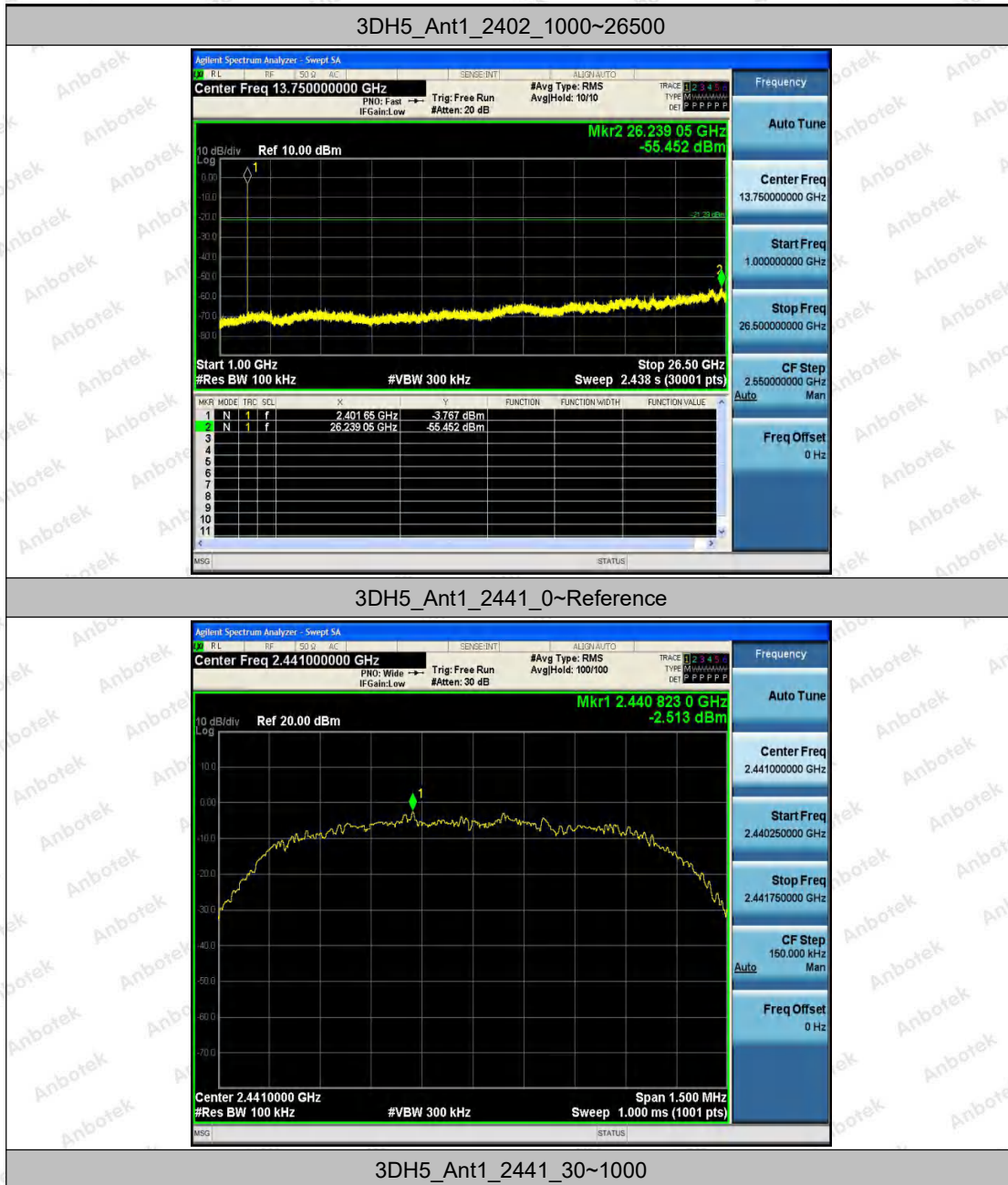


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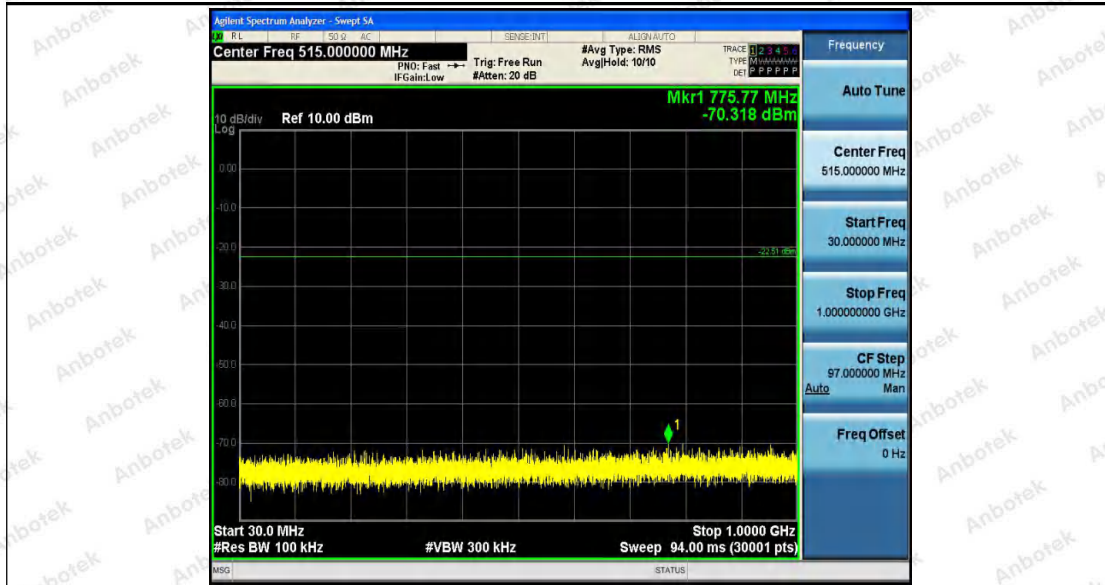


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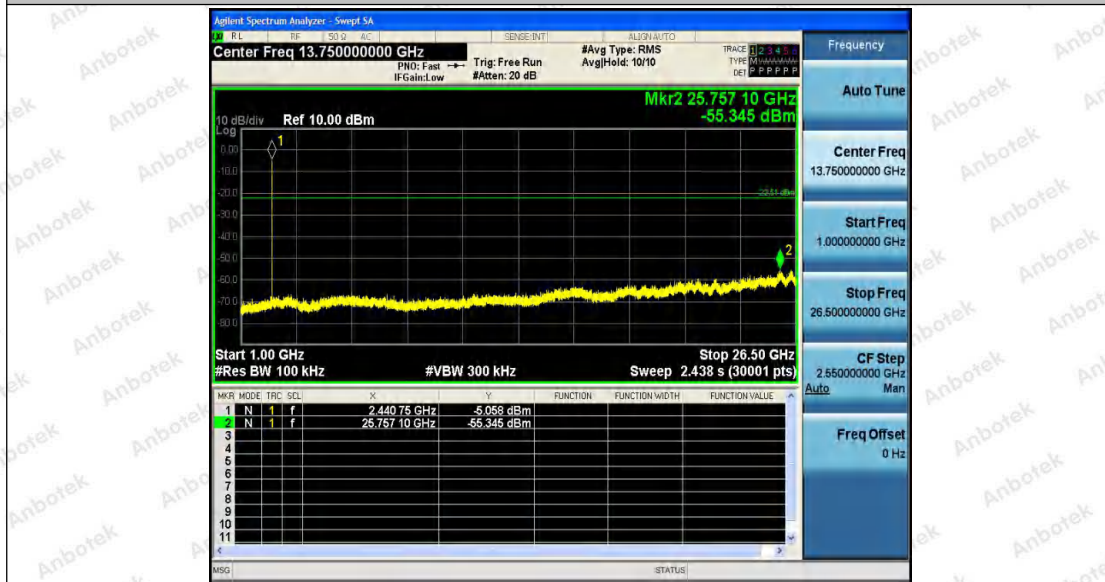
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

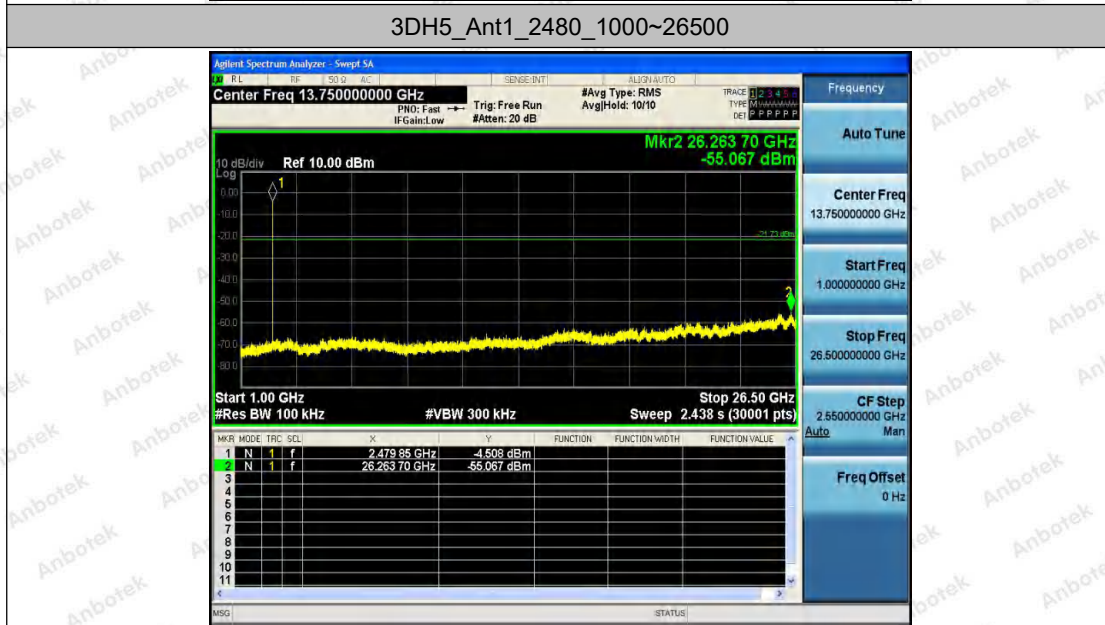
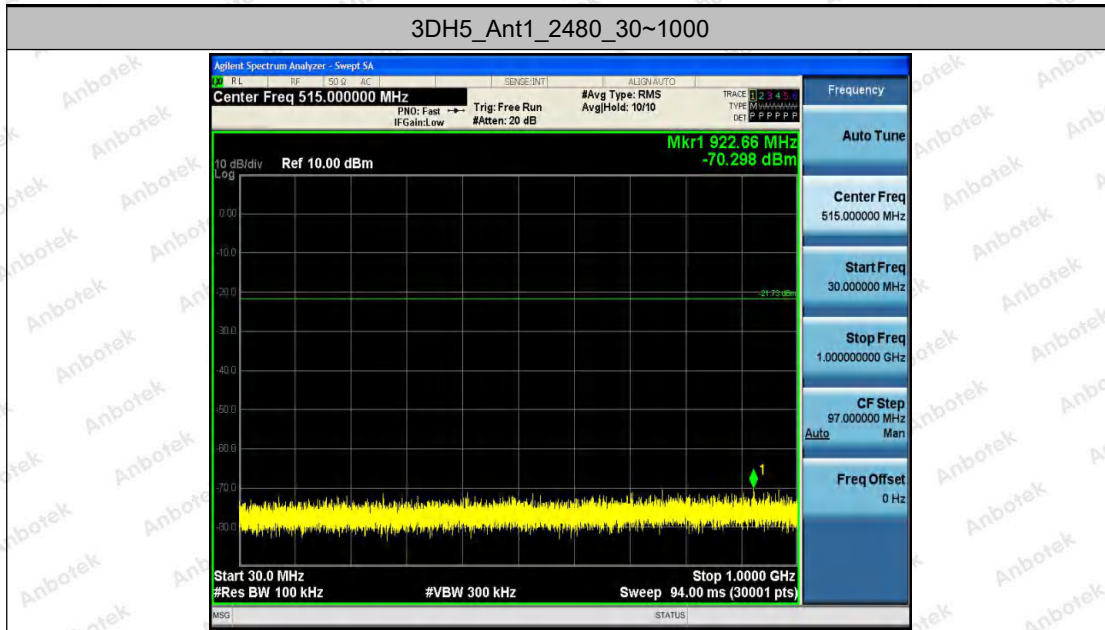


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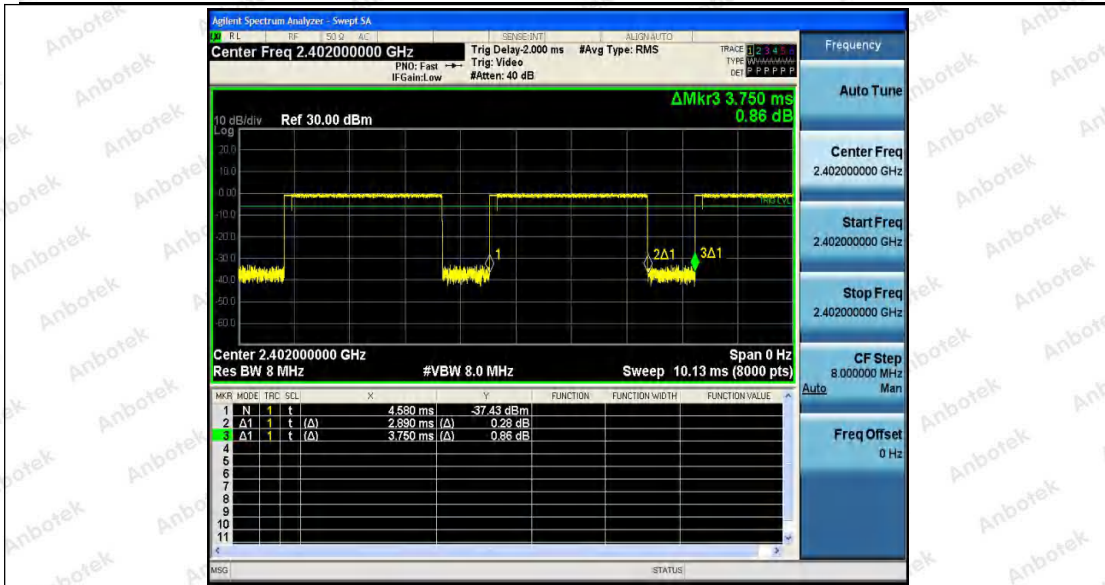
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---

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