

Appendix Test Data

Report No.:	18220WC20126301	Test Sample No.:	1-2-2
Start Test Date:	2022.6.14	Finish Test Date:	2022.6.17
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
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	0.945	2401.538	2402.483	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.326	2401.334	2402.660	---	PASS
		2441	1.311	2440.340	2441.651	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS
3DH5	Ant1	2402	1.269	2401.352	2402.621	---	PASS
		2441	1.341	2440.325	2441.666	---	PASS
		2480	1.332	2479.331	2480.663	---	PASS

Test Graphs

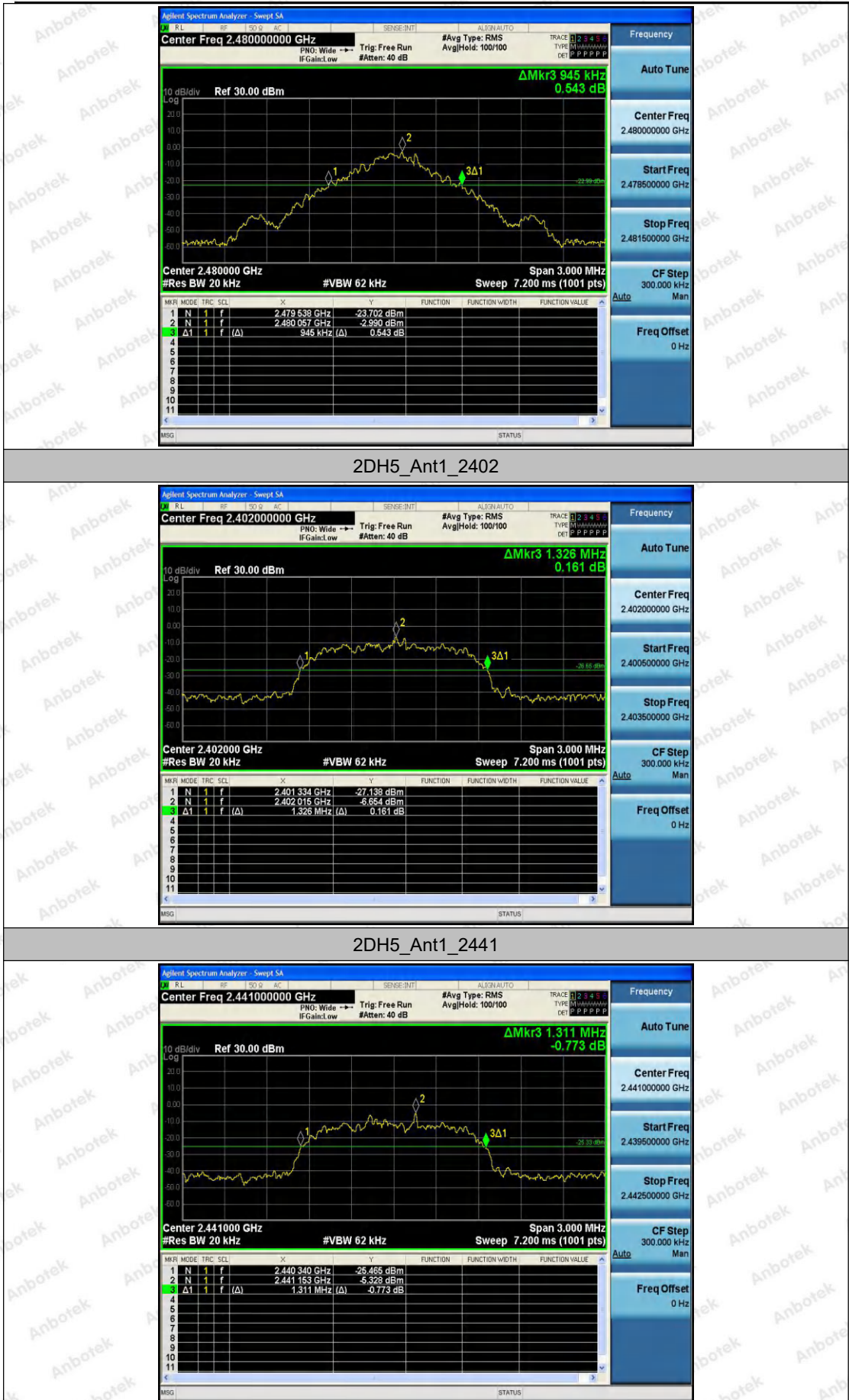
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

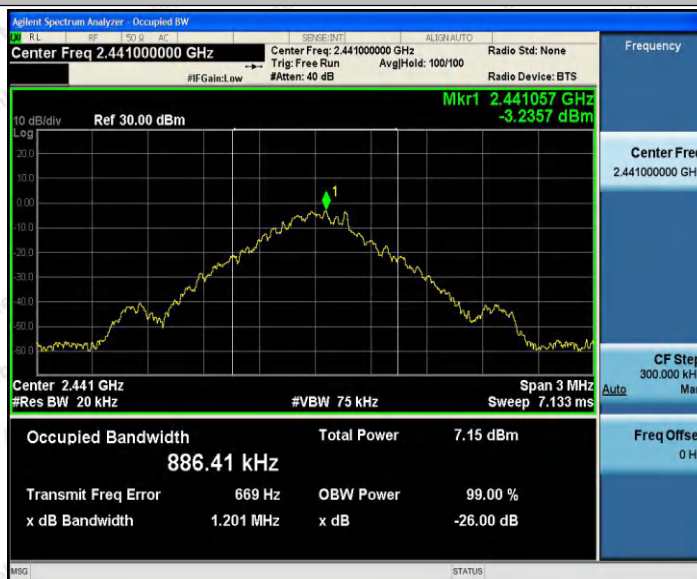
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89147	2401.55 4	2402.445	---	PASS
		2441	0.88641	2440.55 7	2441.444	---	PASS
		2480	0.88816	2479.55 4	2480.442	---	PASS
2DH5	Ant1	2402	1.2043	2401.39 7	2402.601	---	PASS
		2441	1.1945	2440.40 4	2441.599	---	PASS
		2480	1.1926	2479.40 1	2480.593	---	PASS
3DH5	Ant1	2402	1.2043	2401.38 9	2402.593	---	PASS
		2441	1.2028	2440.39 2	2441.595	---	PASS
		2480	1.1927	2479.40 1	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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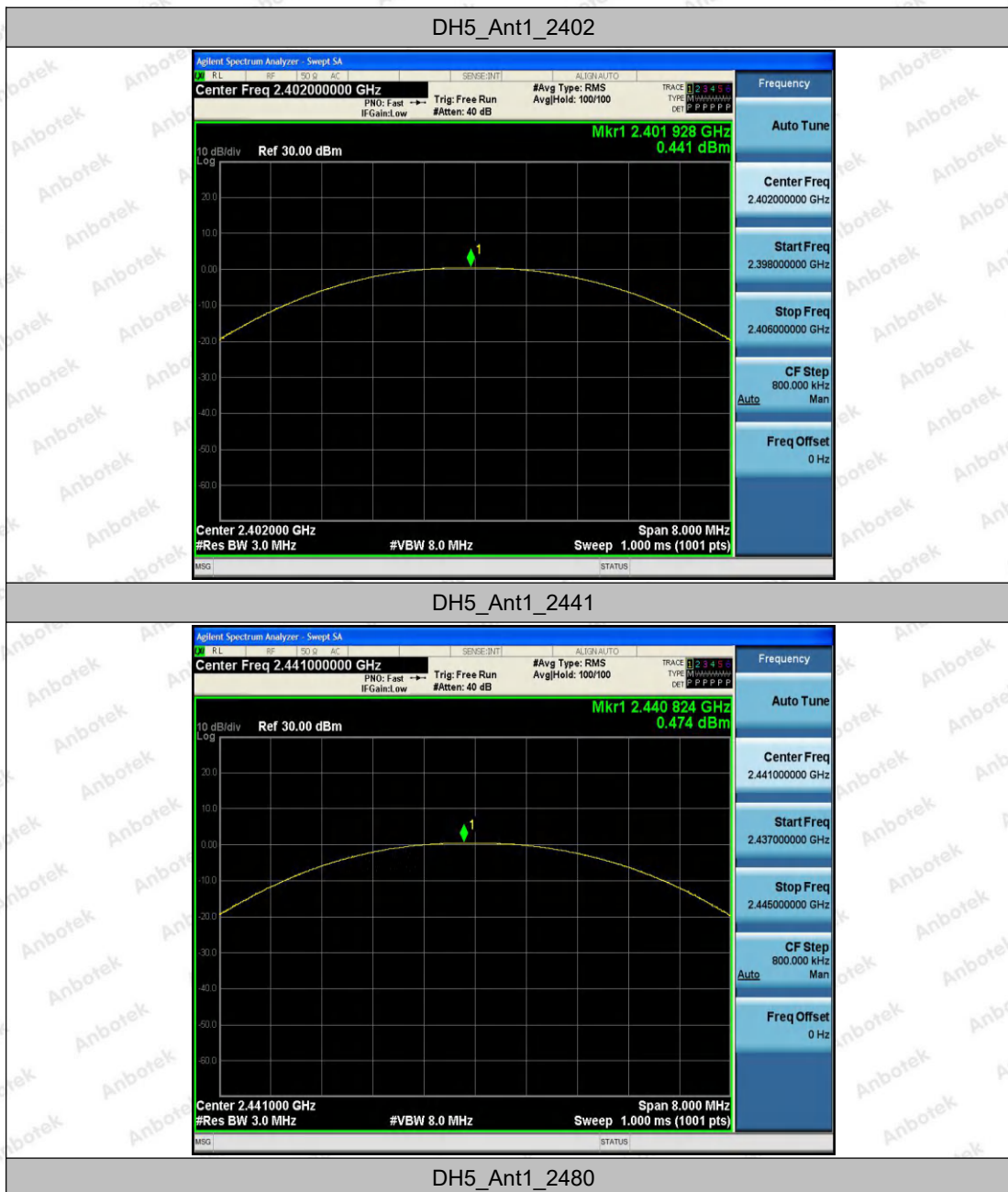
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.44	≤20.97	PASS
		2441	0.47	≤20.97	PASS
		2480	0.59	≤20.97	PASS
2DH5	Ant1	2402	-0.24	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	-0.18	≤20.97	PASS
3DH5	Ant1	2402	-0.11	≤20.97	PASS
		2441	-0.04	≤20.97	PASS
		2480	-0.01	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.922	≥ 0.632	PASS
2DH5	Ant1	Hop	1.024	≥ 0.884	PASS
3DH5	Ant1	Hop	1.018	≥ 0.894	PASS

Test Graphs





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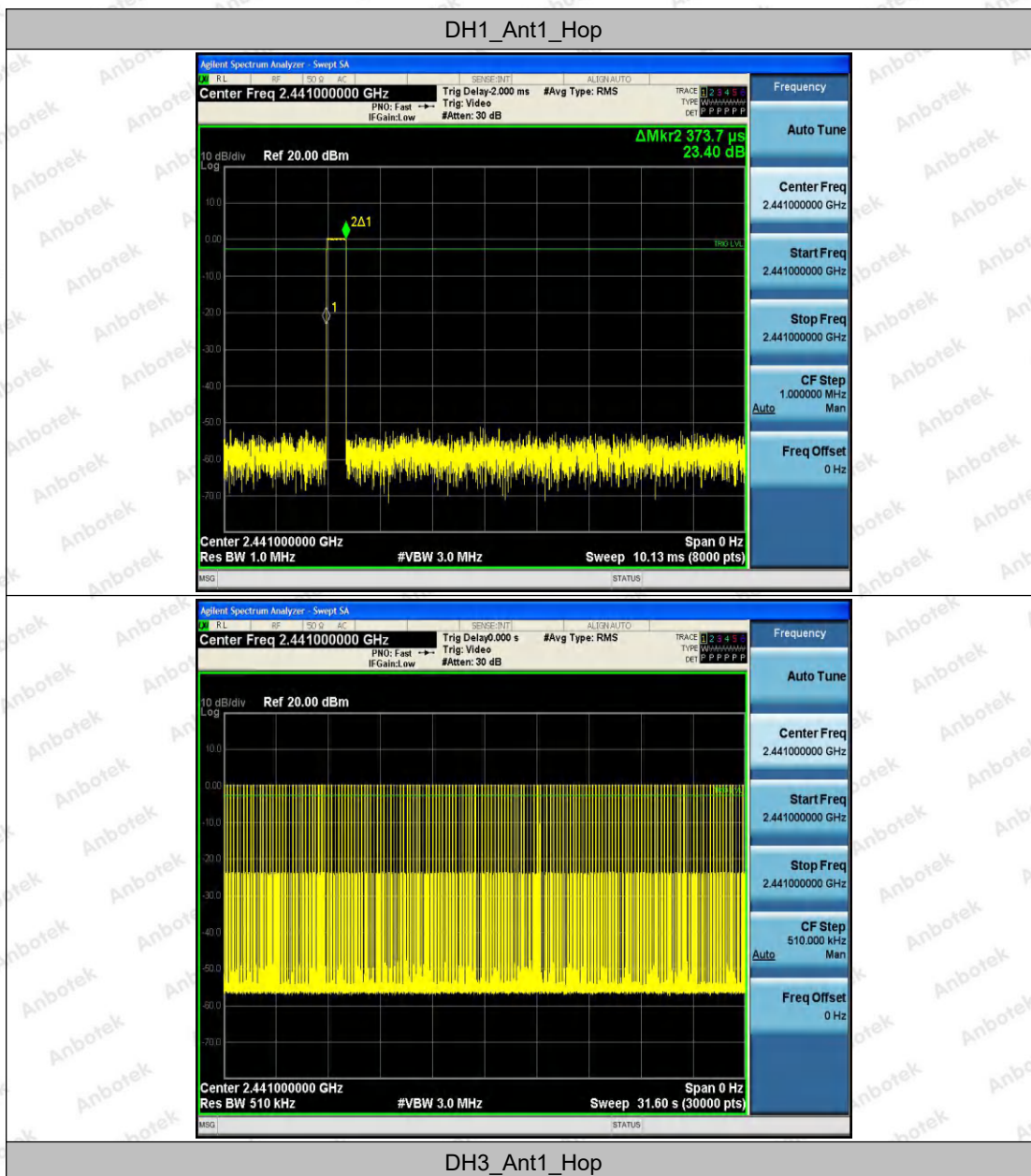
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Appendix E: Time of occupancy

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	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	317	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	316	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	118	0.34	≤0.4	PASS

Test Graphs

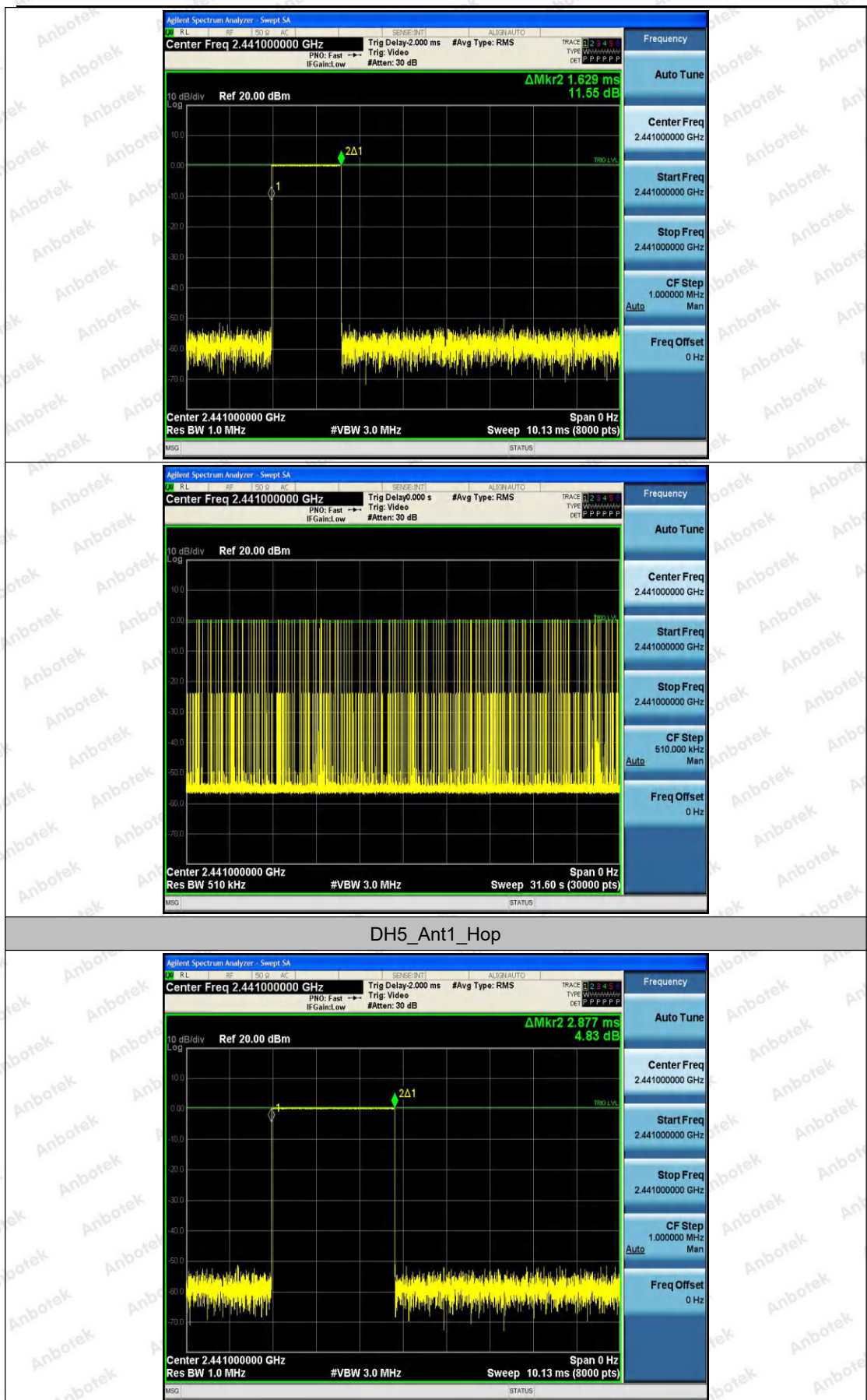


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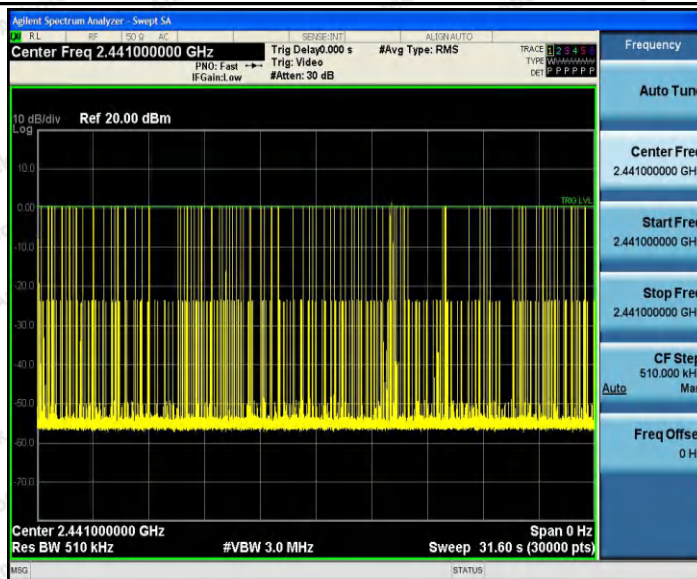
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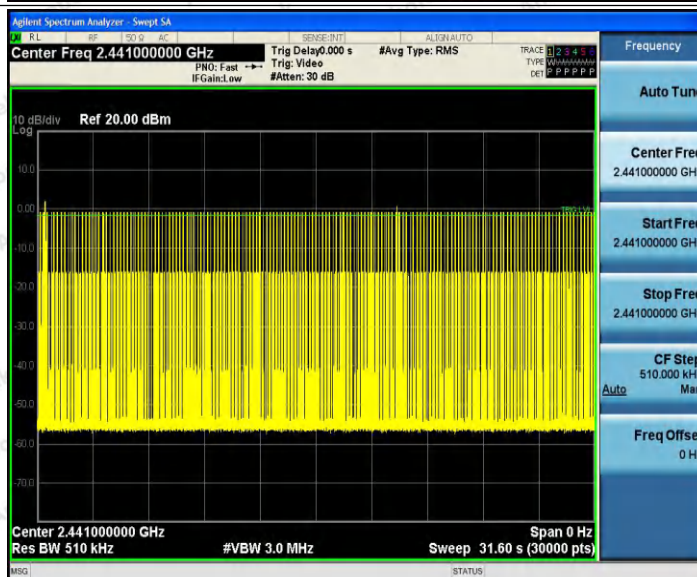
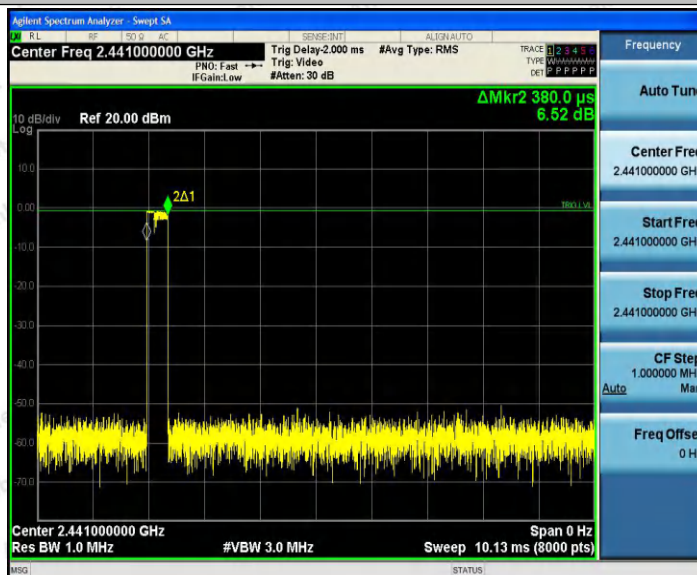
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DH5_Ant1_Hop



2DH1_Ant1_Hop



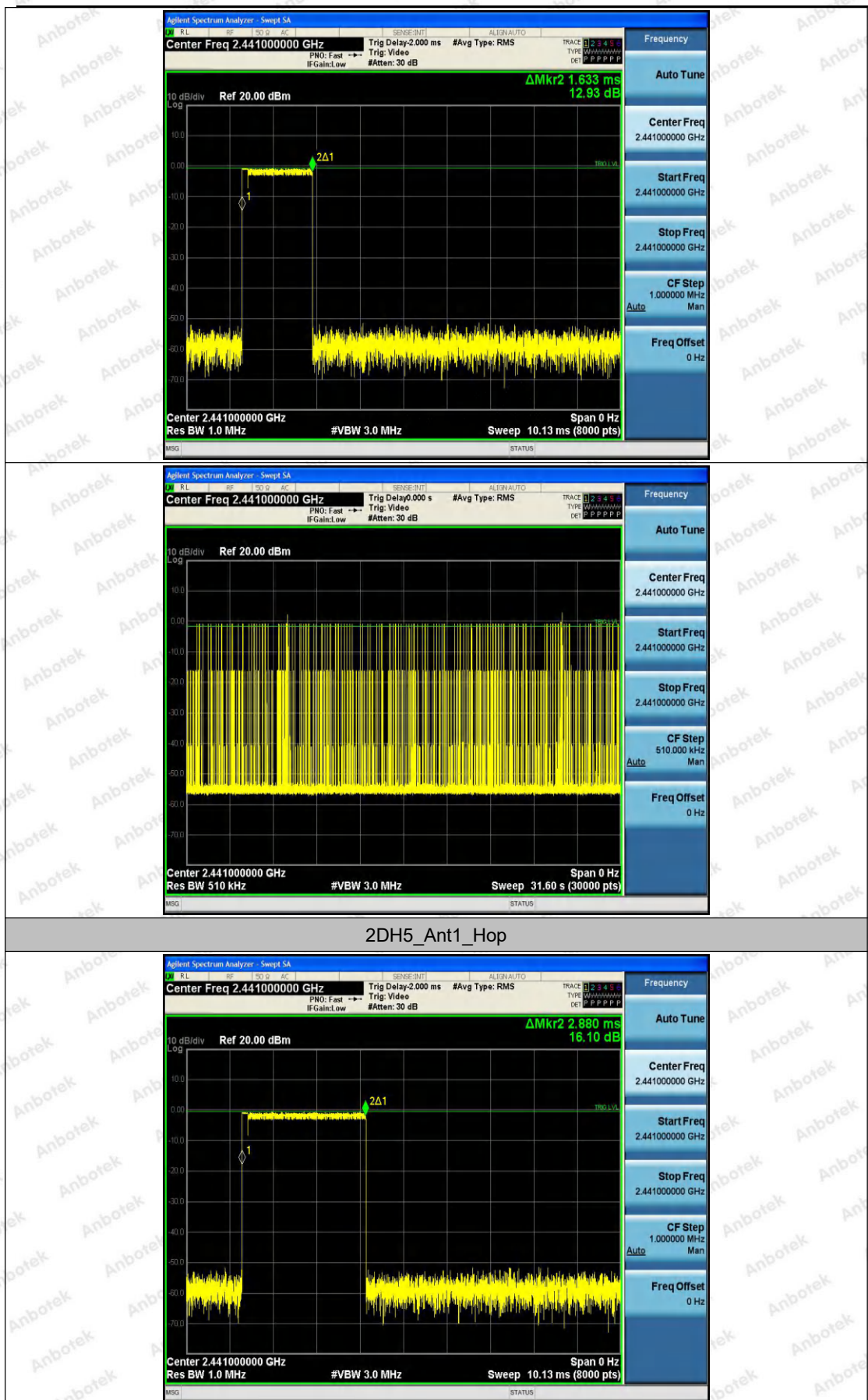
2DH3_Ant1_Hop

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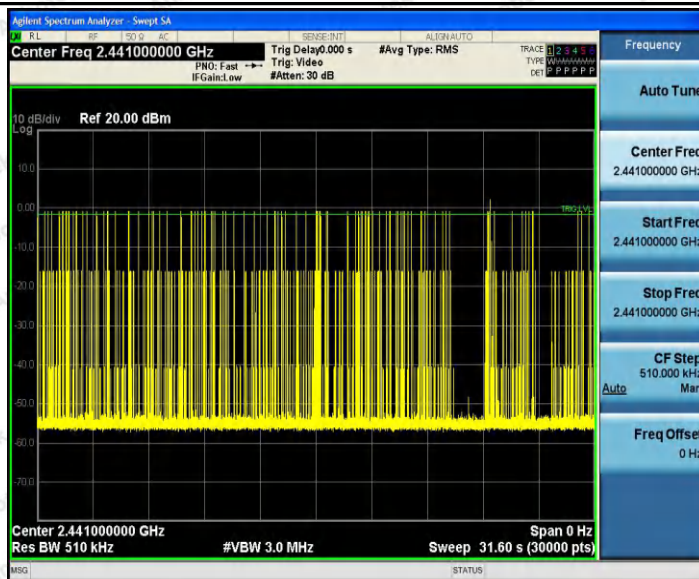


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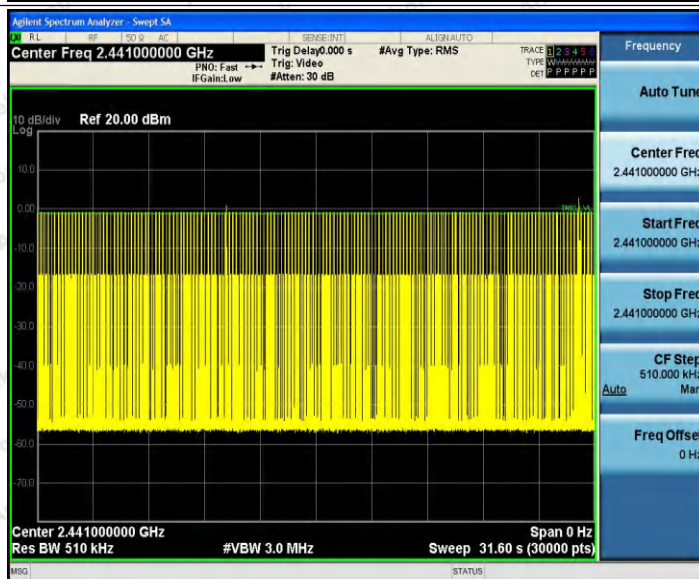
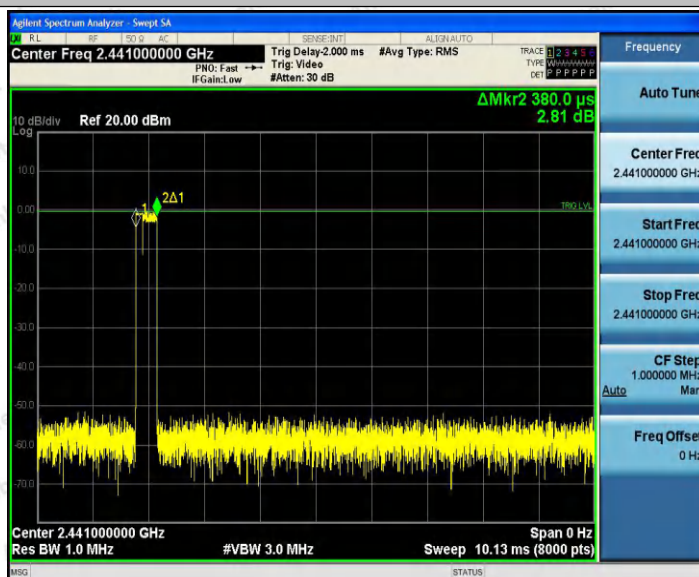
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3DH1_Ant1_Hop



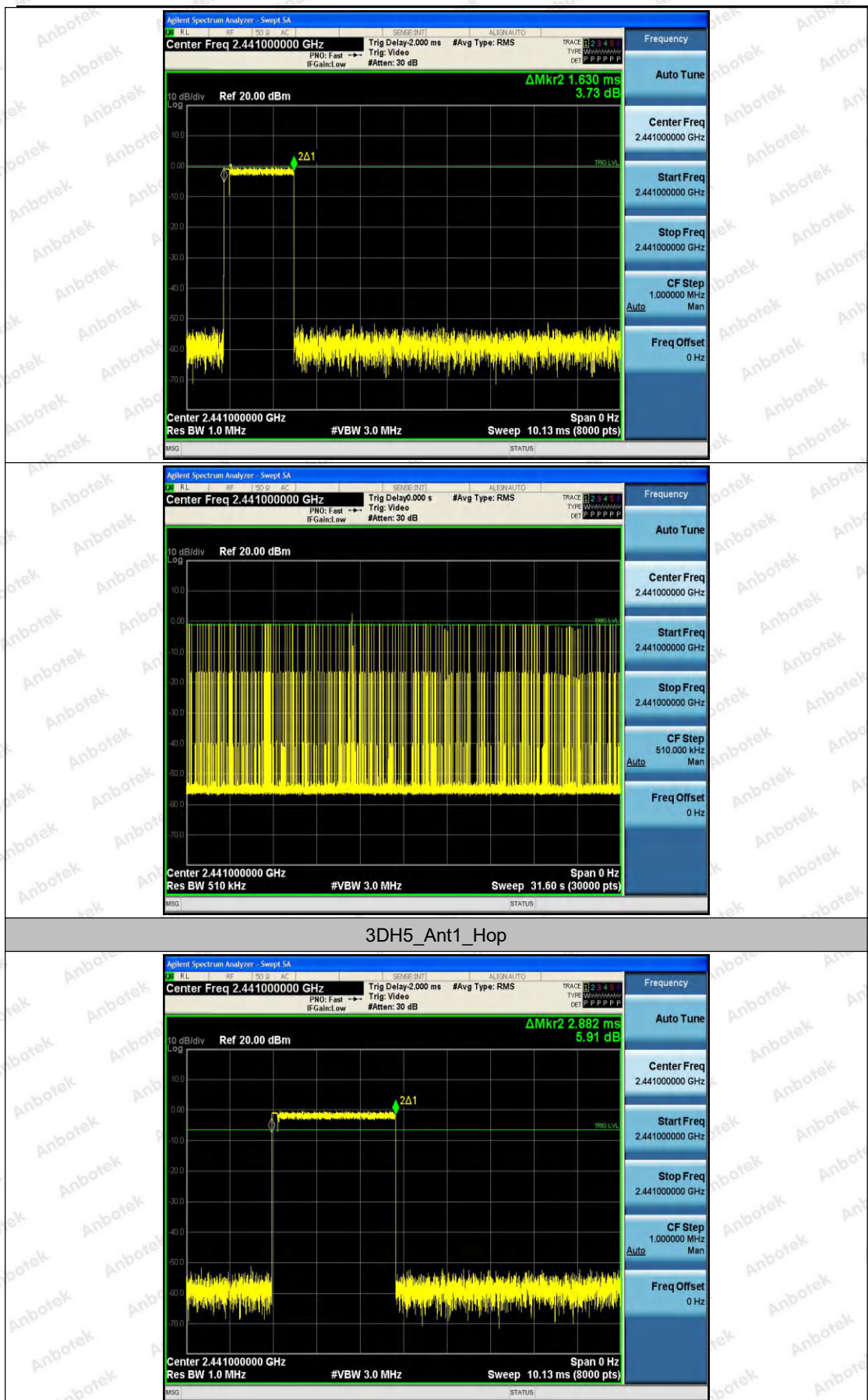
3DH3_Ant1_Hop

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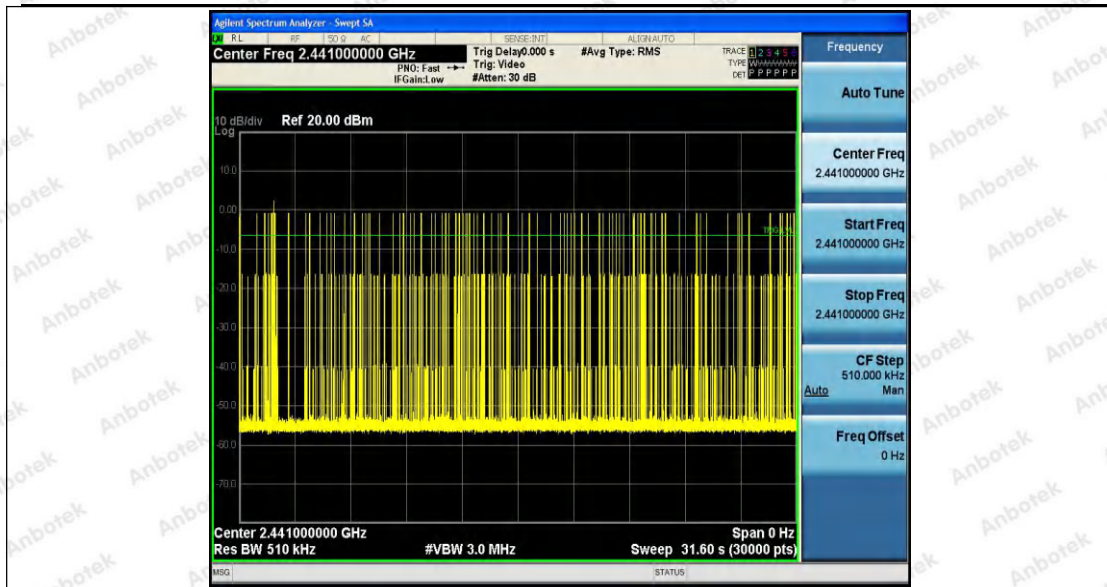


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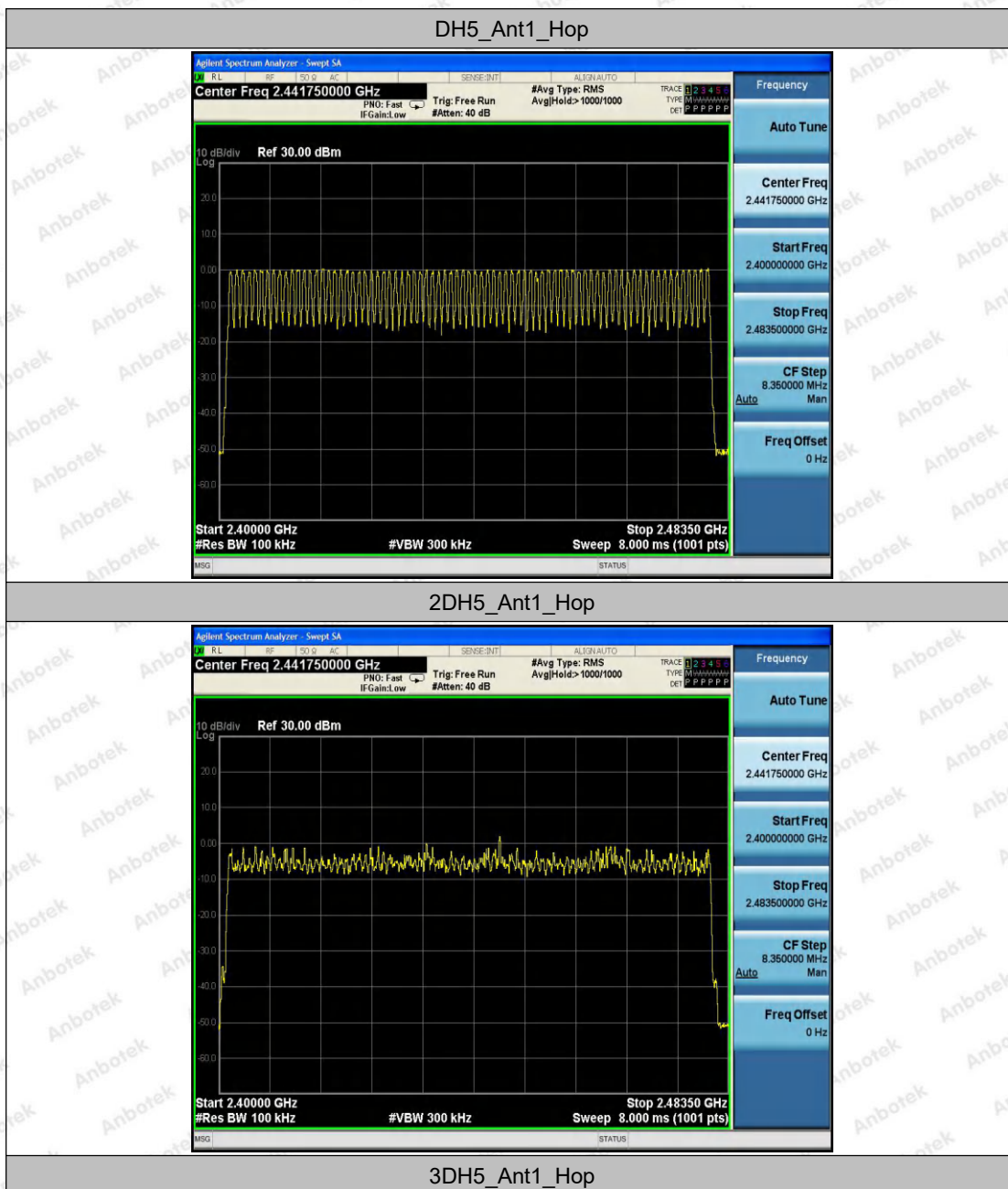
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Appendix F: Number of hopping channels

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

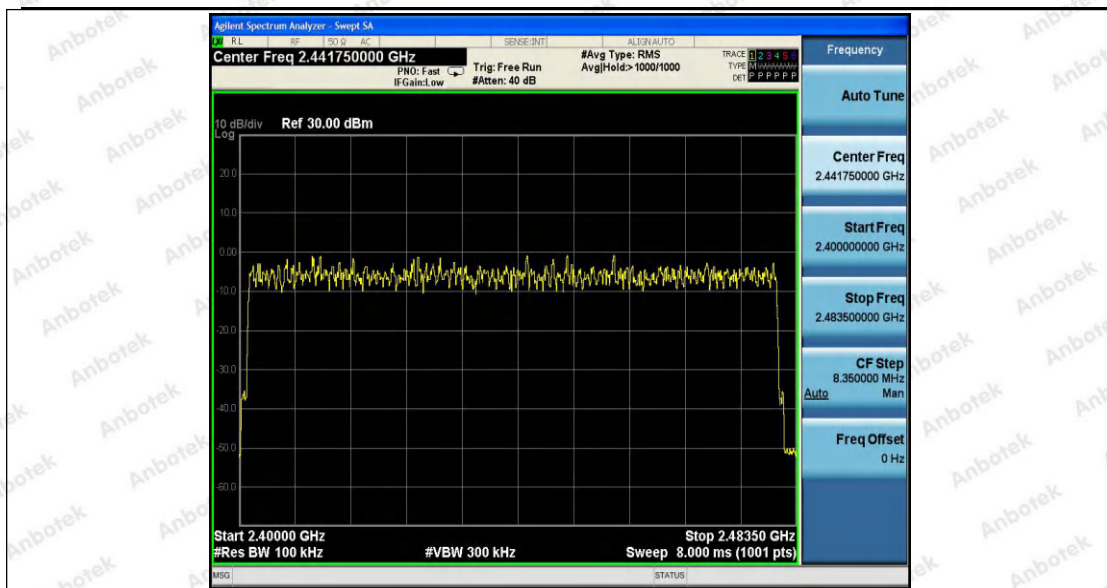


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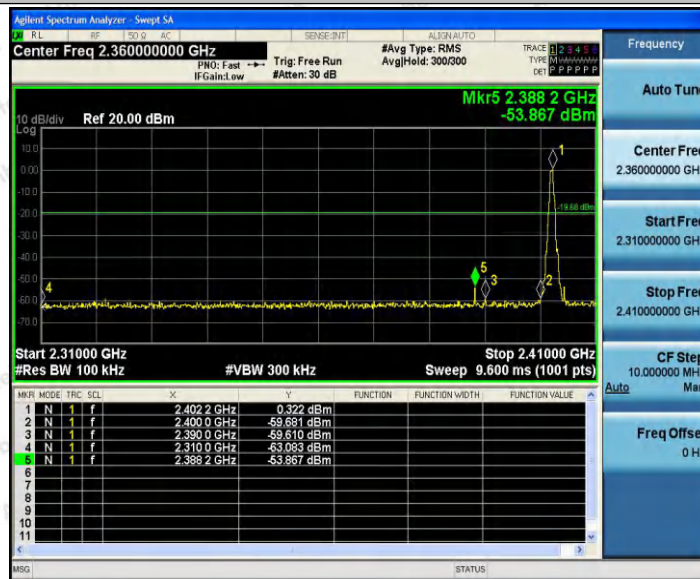
Appendix G: Band edge measurements

Test Result

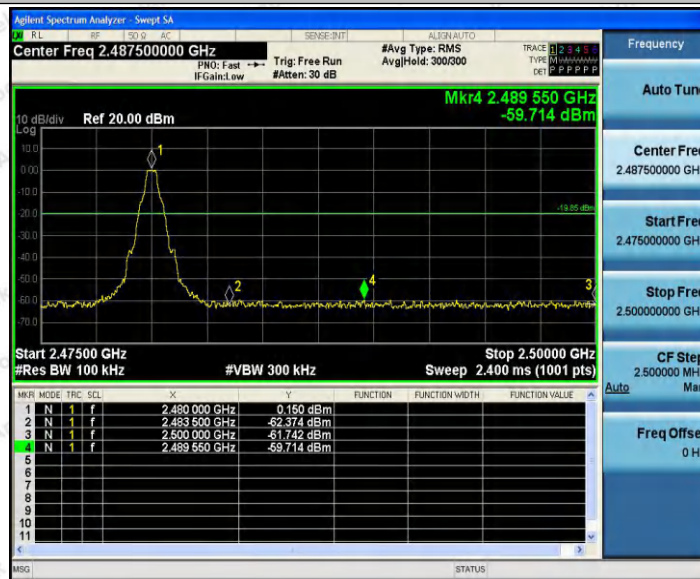
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.32	-53.87	≤-19.68	PASS
		High	2480	0.15	-59.71	≤-19.85	PASS
		Low	Hop	0.27	-59.77	≤-19.73	PASS
		High	Hop	0.21	-62.19	≤-19.79	PASS
2DH5	Ant1	Low	2402	-0.95	-54.43	≤-20.95	PASS
		High	2480	-0.88	-58.57	≤-20.88	PASS
		Low	Hop	-4.28	-60.05	≤-24.28	PASS
		High	Hop	-2.43	-61.09	≤-22.43	PASS
3DH5	Ant1	Low	2402	-3.23	-57.29	≤-23.23	PASS
		High	2480	-2.54	-59.12	≤-22.54	PASS
		Low	Hop	-2.61	-59.59	≤-22.61	PASS
		High	Hop	-2.54	-61.39	≤-22.54	PASS

Test Graphs

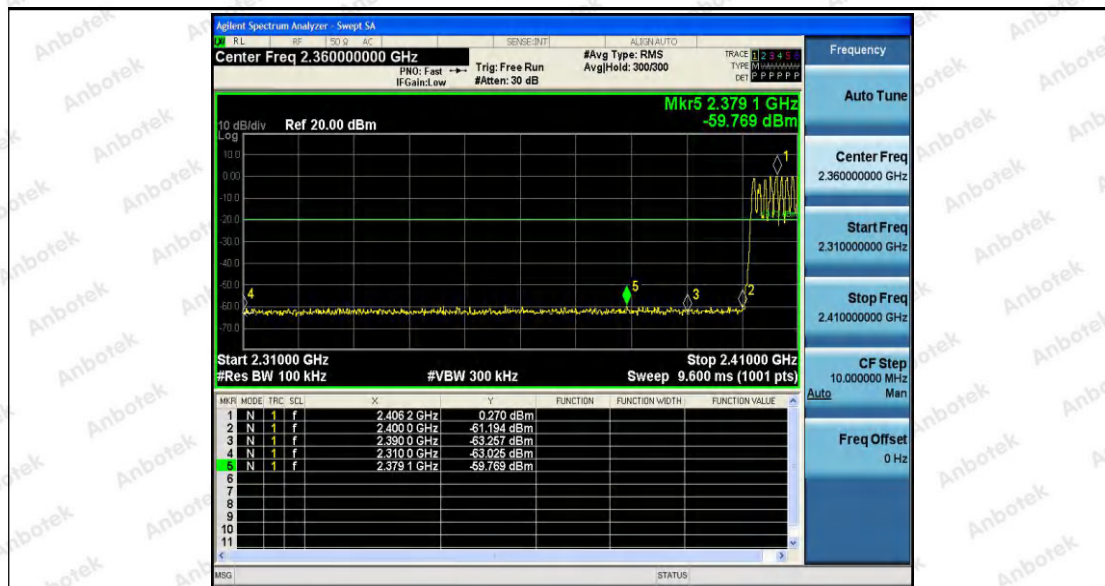
DH5_Ant1_Low_2402



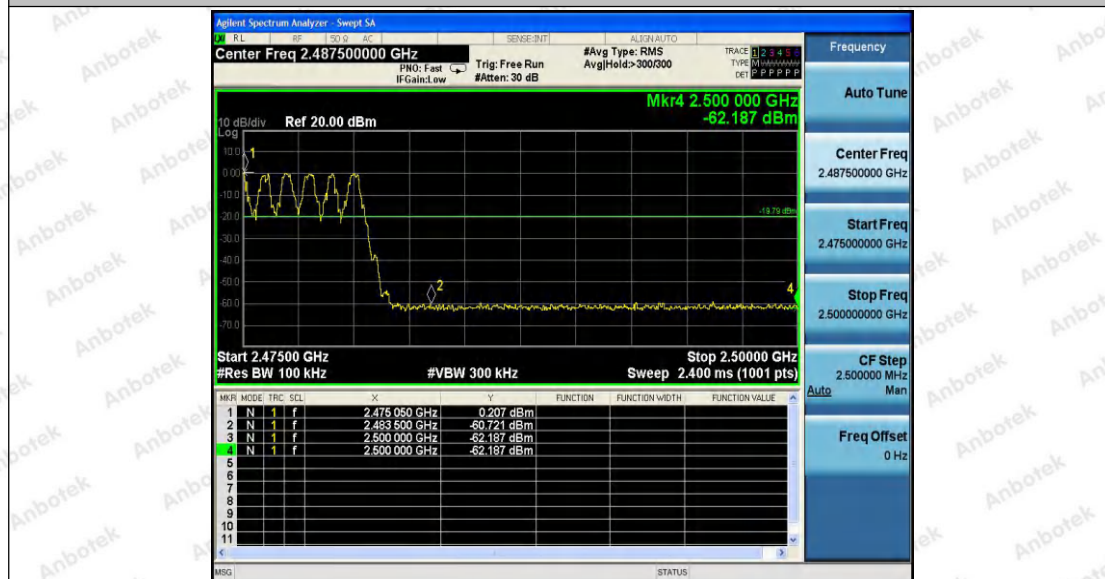
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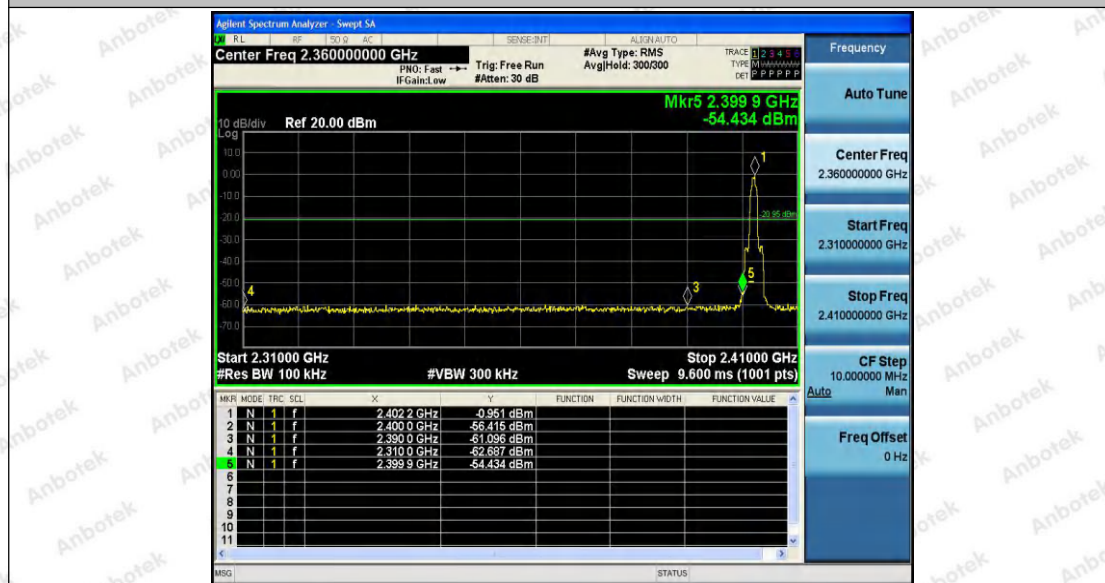
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



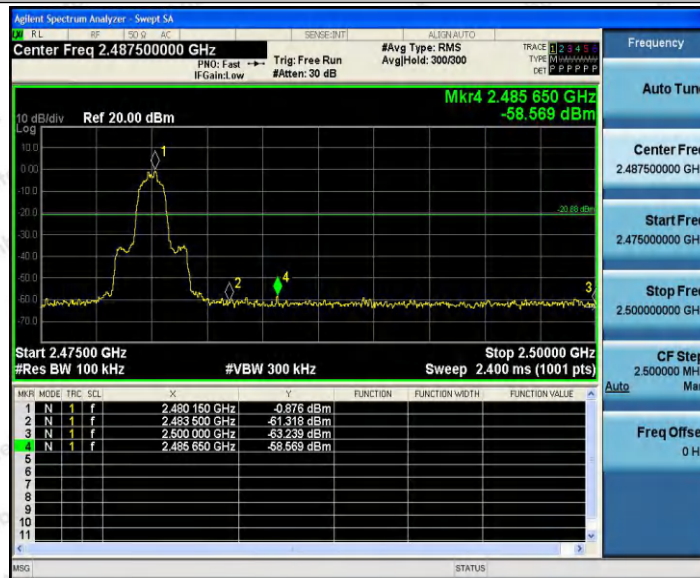
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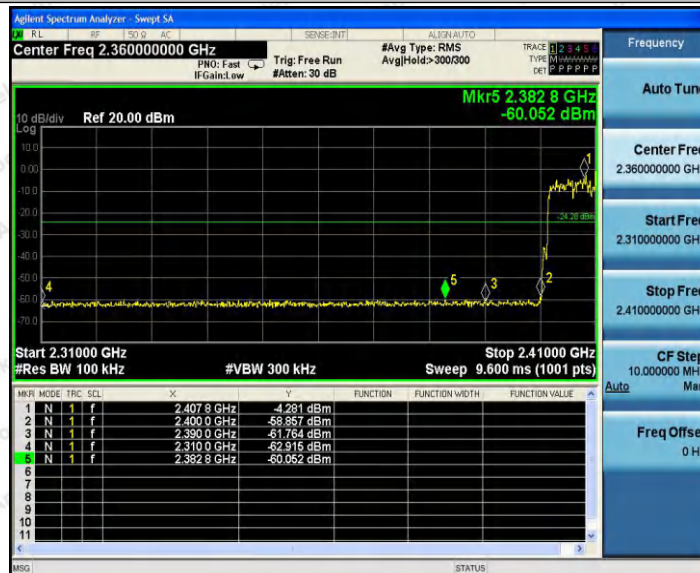
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



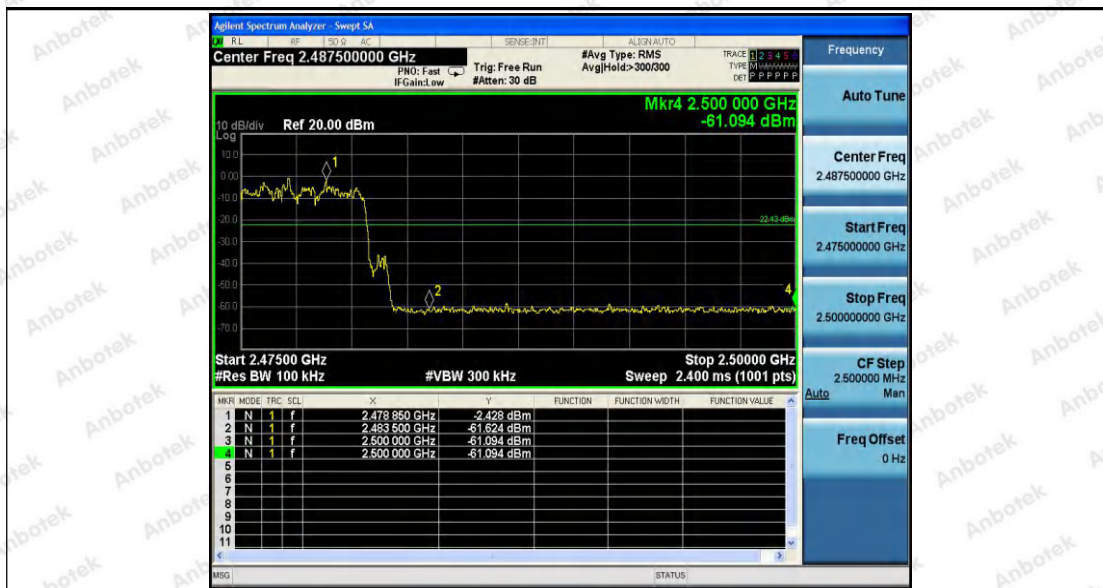
2DH5_Ant1_High_Hop

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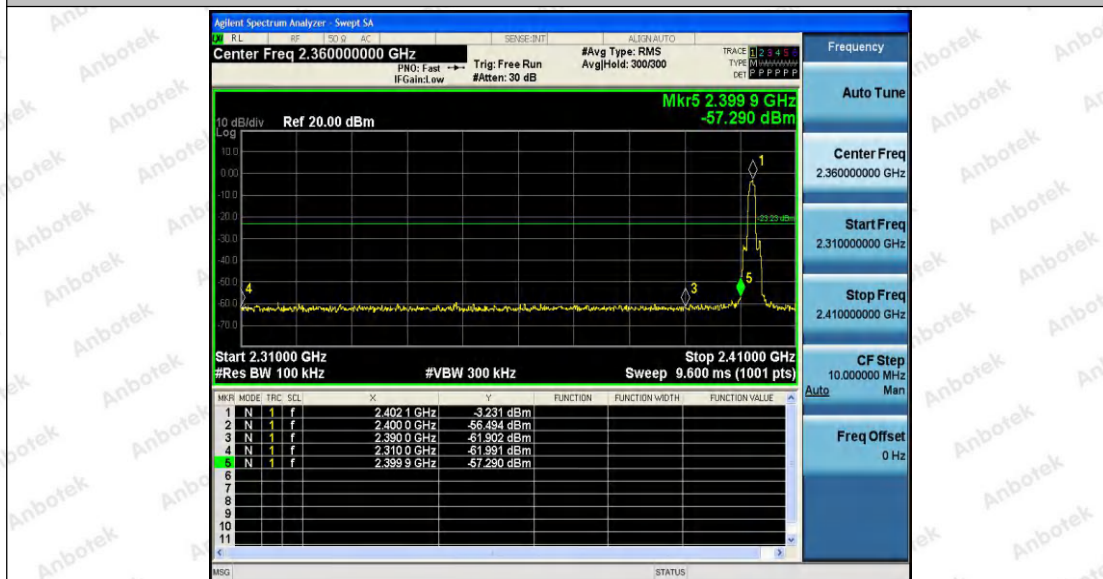
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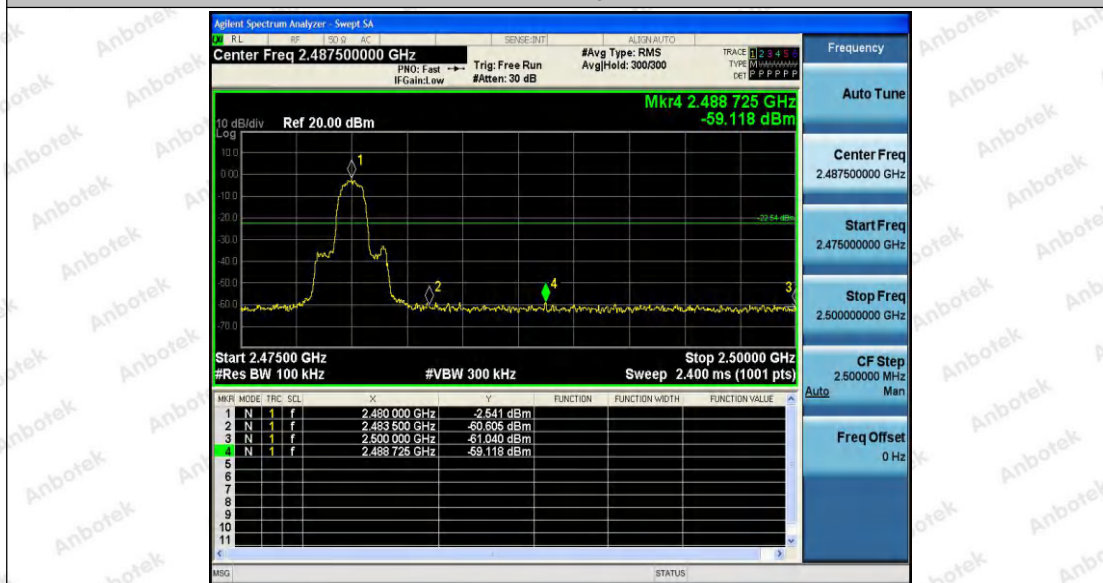
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

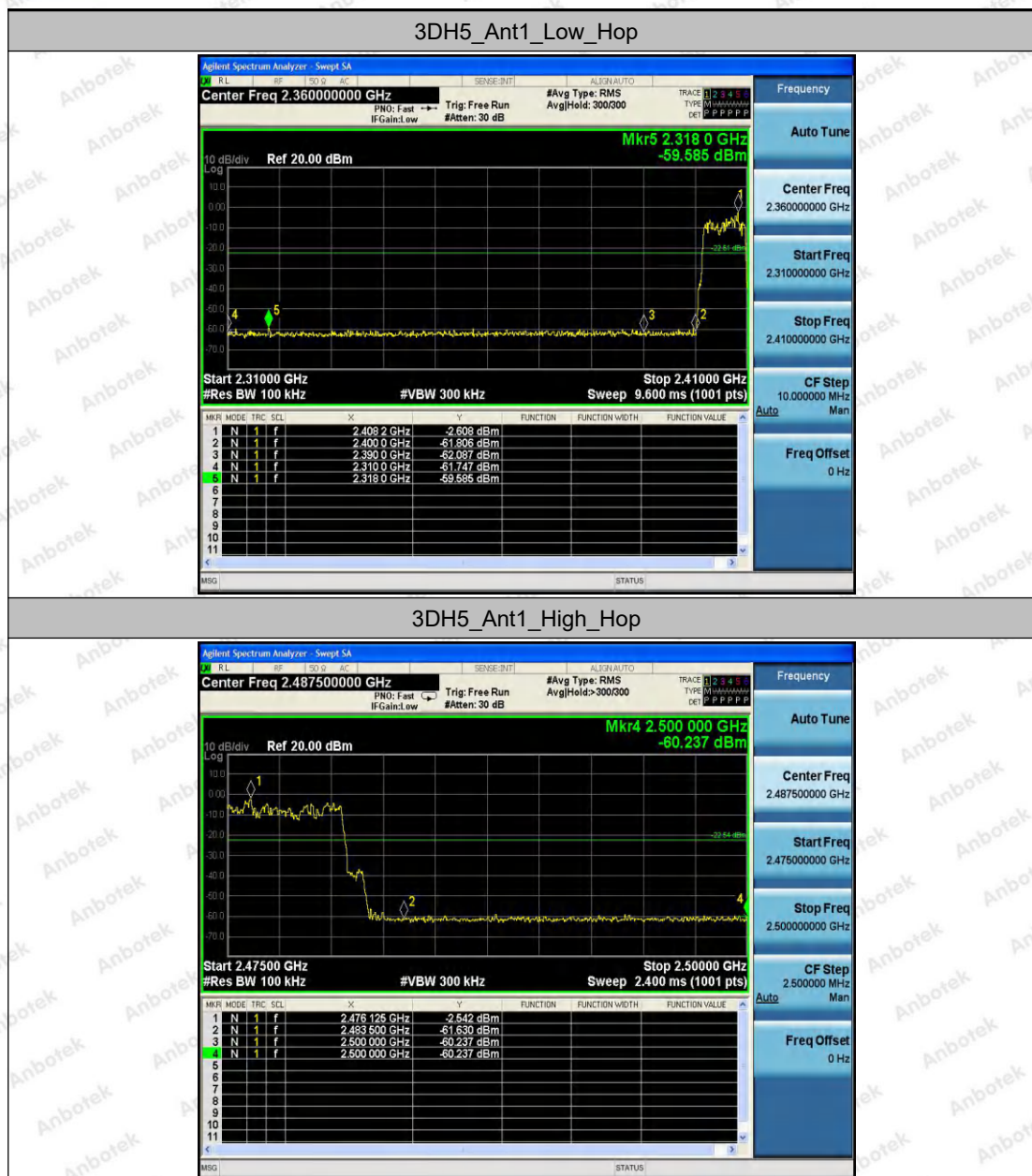


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Appendix H: Conducted Spurious Emission

Test Result

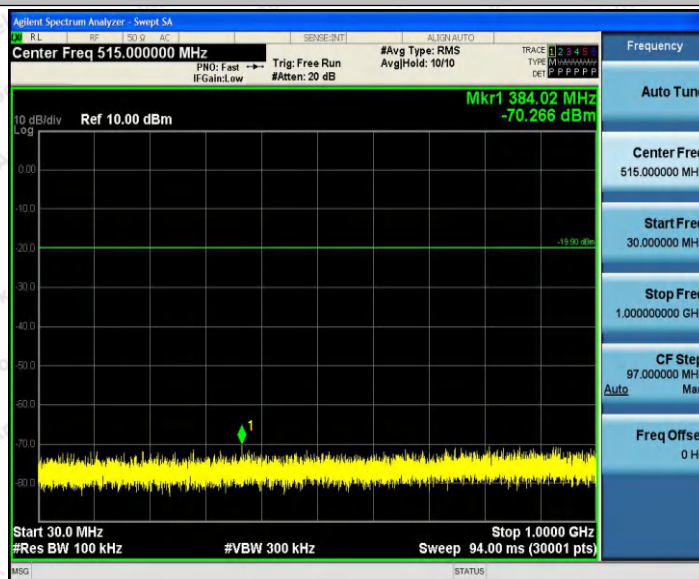
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-70.27	≤-19.9	PASS
			1000~26500	0.10	-54.86	≤-19.9	PASS
		2441	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-70.25	≤-19.89	PASS
			1000~26500	0.12	-55.16	≤-19.89	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-70.17	≤-19.66	PASS
			1000~26500	0.34	-55.05	≤-19.66	PASS
2DH5	Ant1	2402	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-70.51	≤-21.74	PASS
			1000~26500	-1.74	-45.55	≤-21.74	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.96	≤-21.71	PASS
			1000~26500	-1.71	-55.57	≤-21.71	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-68.71	≤-21.11	PASS
			1000~26500	-1.11	-55.48	≤-21.11	PASS
3DH5	Ant1	2402	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.02	≤-20.96	PASS
			1000~26500	-0.96	-55.44	≤-20.96	PASS
		2441	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-70.68	≤-21.37	PASS
			1000~26500	-1.37	-55.53	≤-21.37	PASS
		2480	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-70.48	≤-20.87	PASS
			1000~26500	-0.87	-55.55	≤-20.87	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



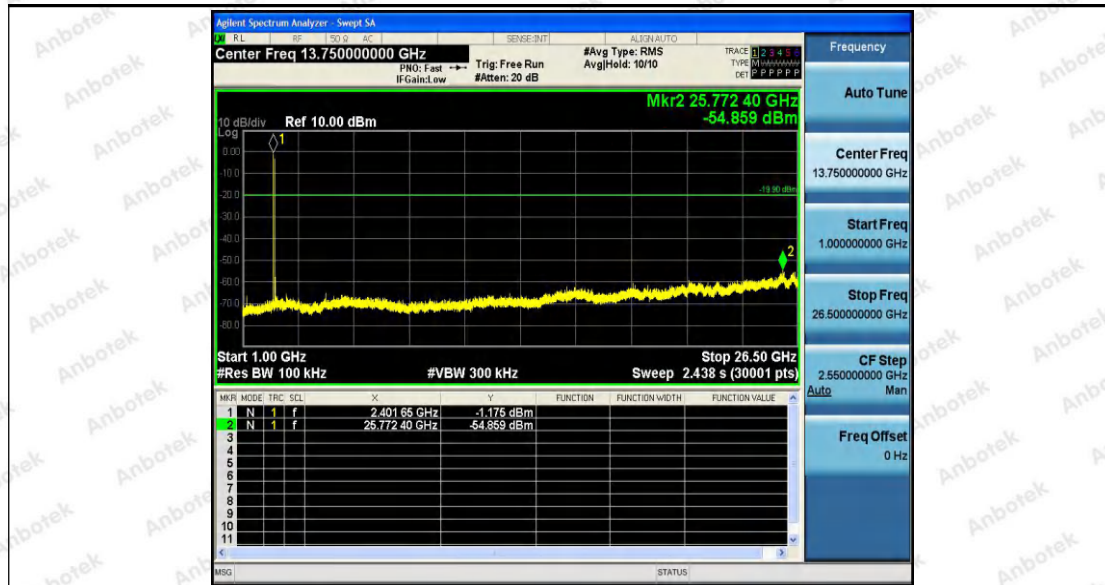
DH5_Ant1_2402_1000~26500

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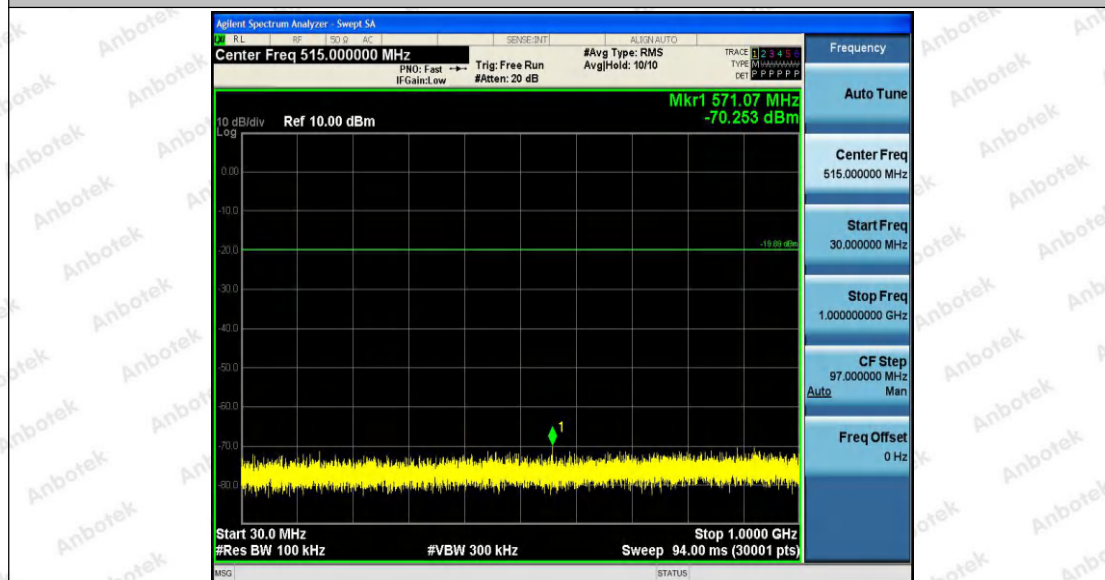
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



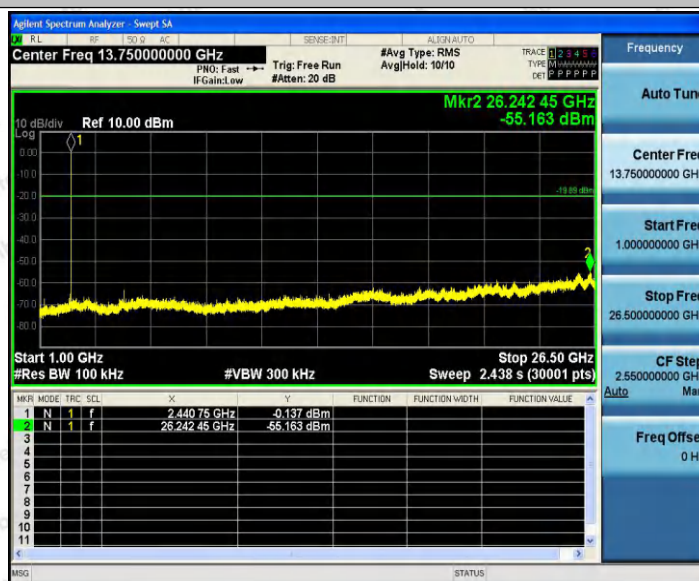
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



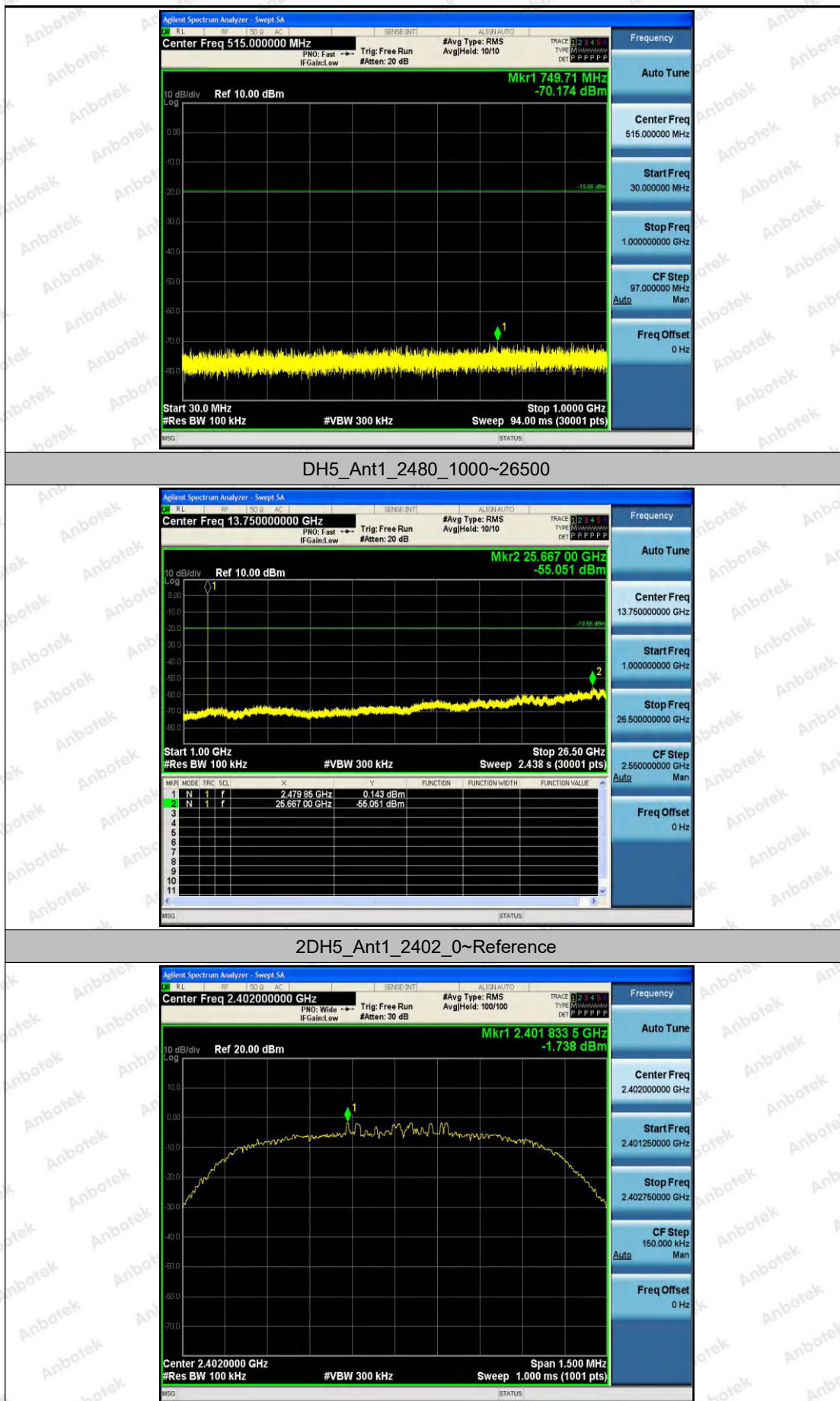
DH5_Ant1_2480_30~1000

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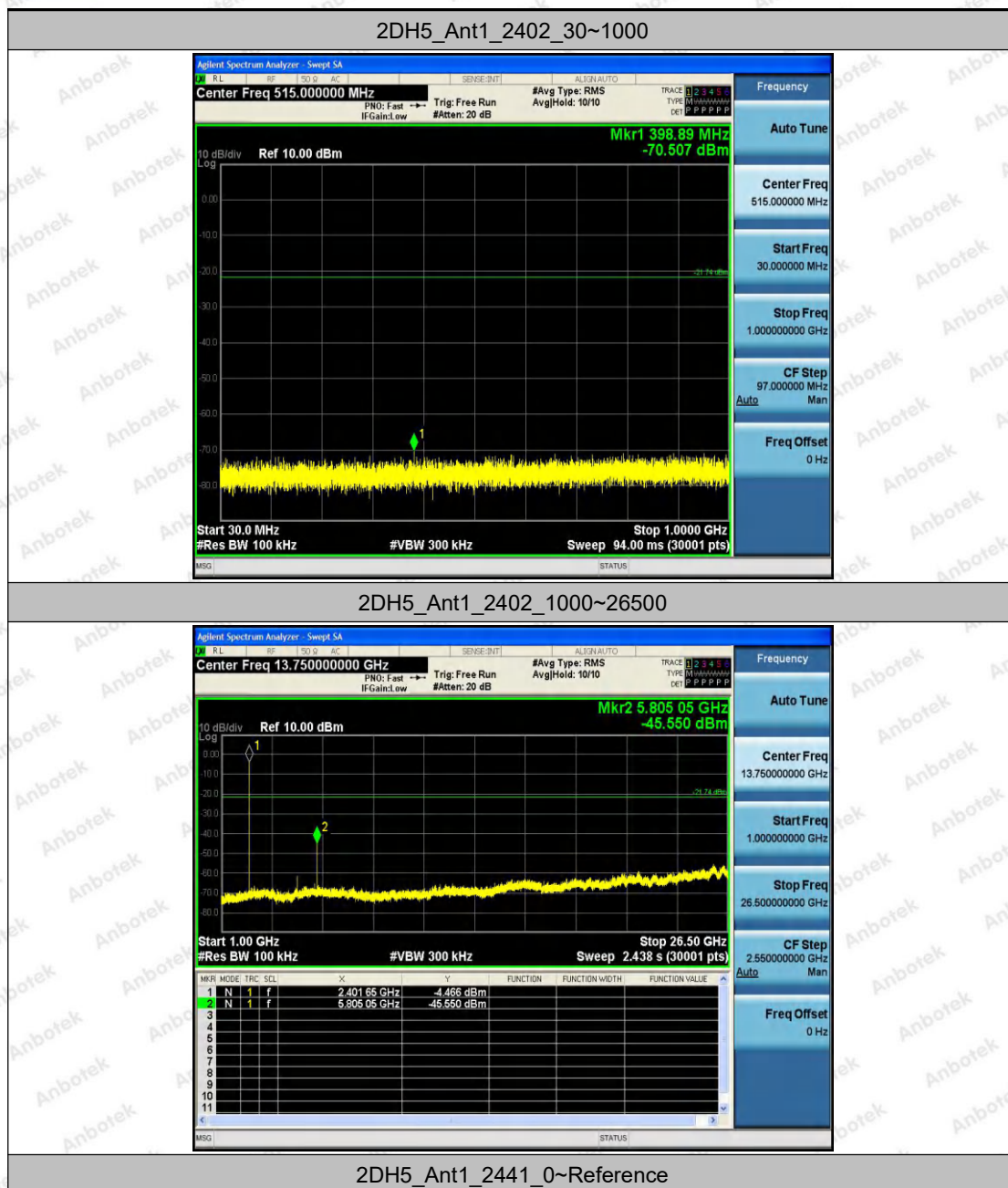


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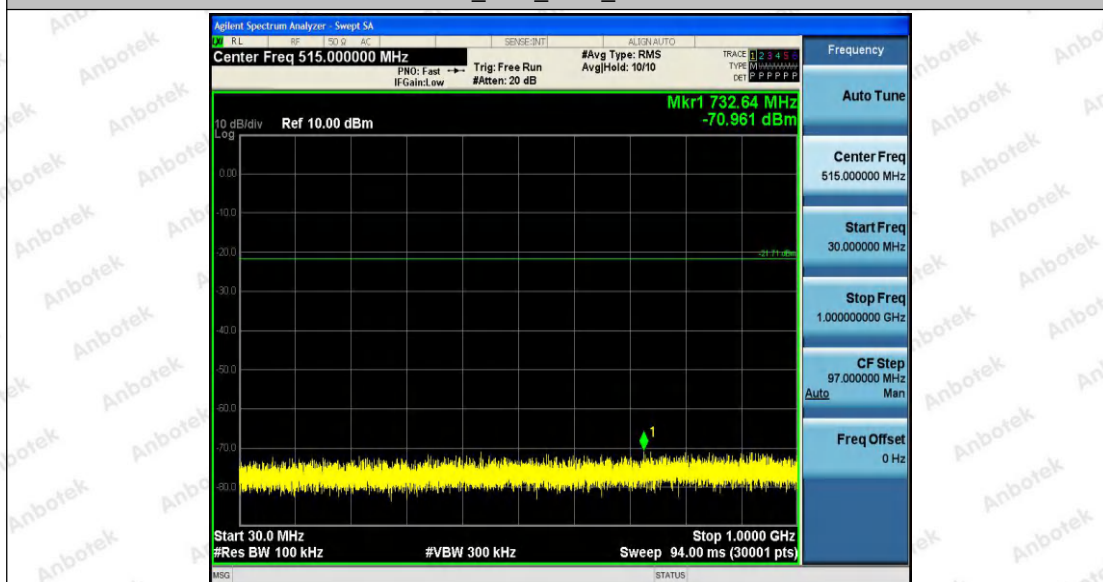
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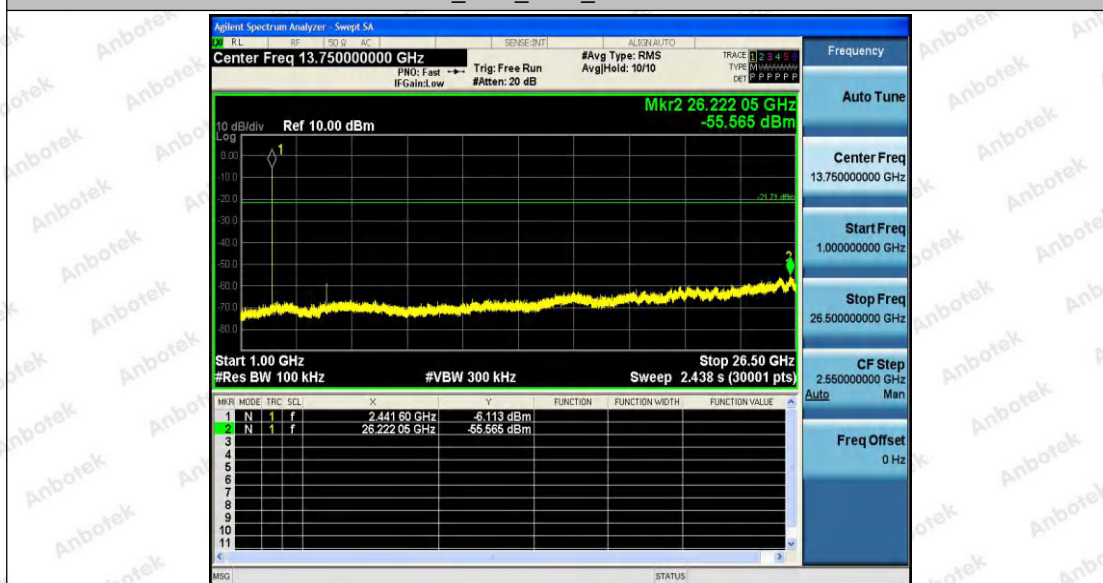




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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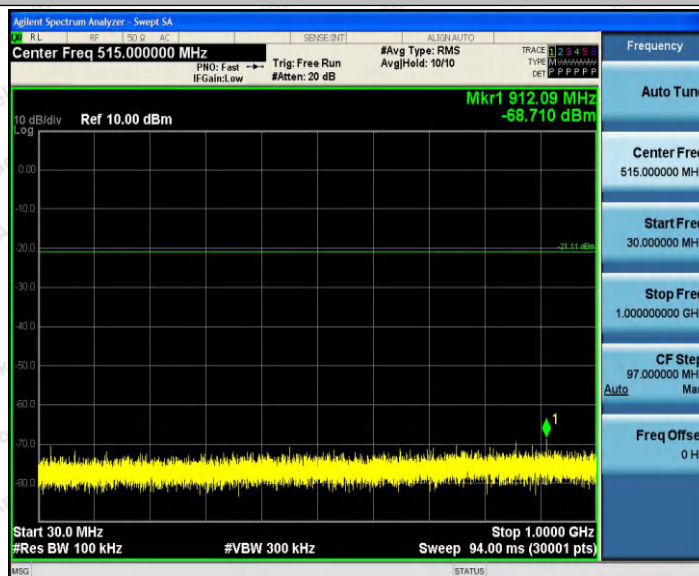
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



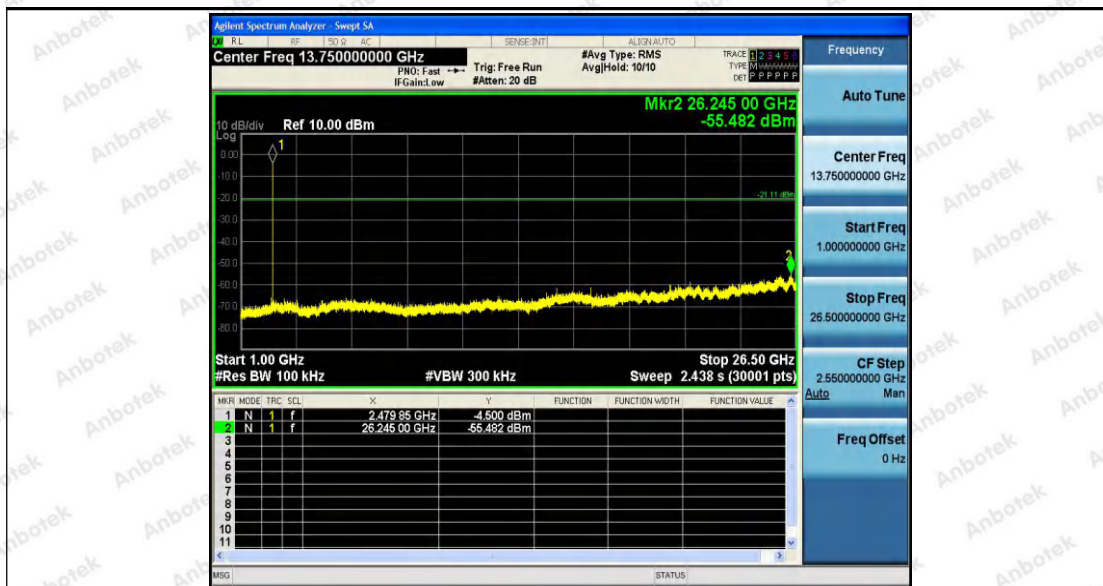
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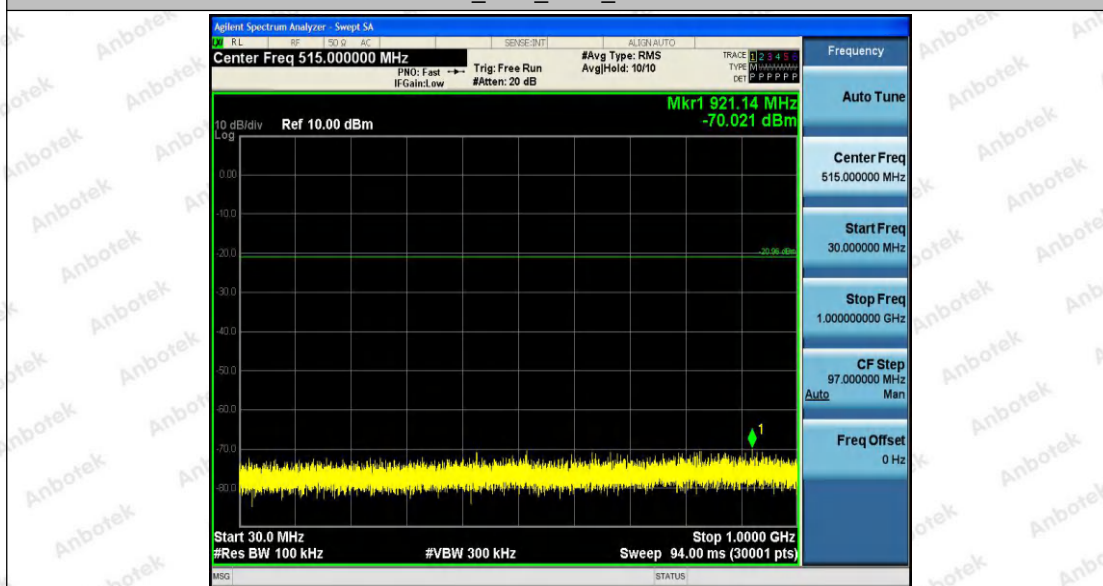
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



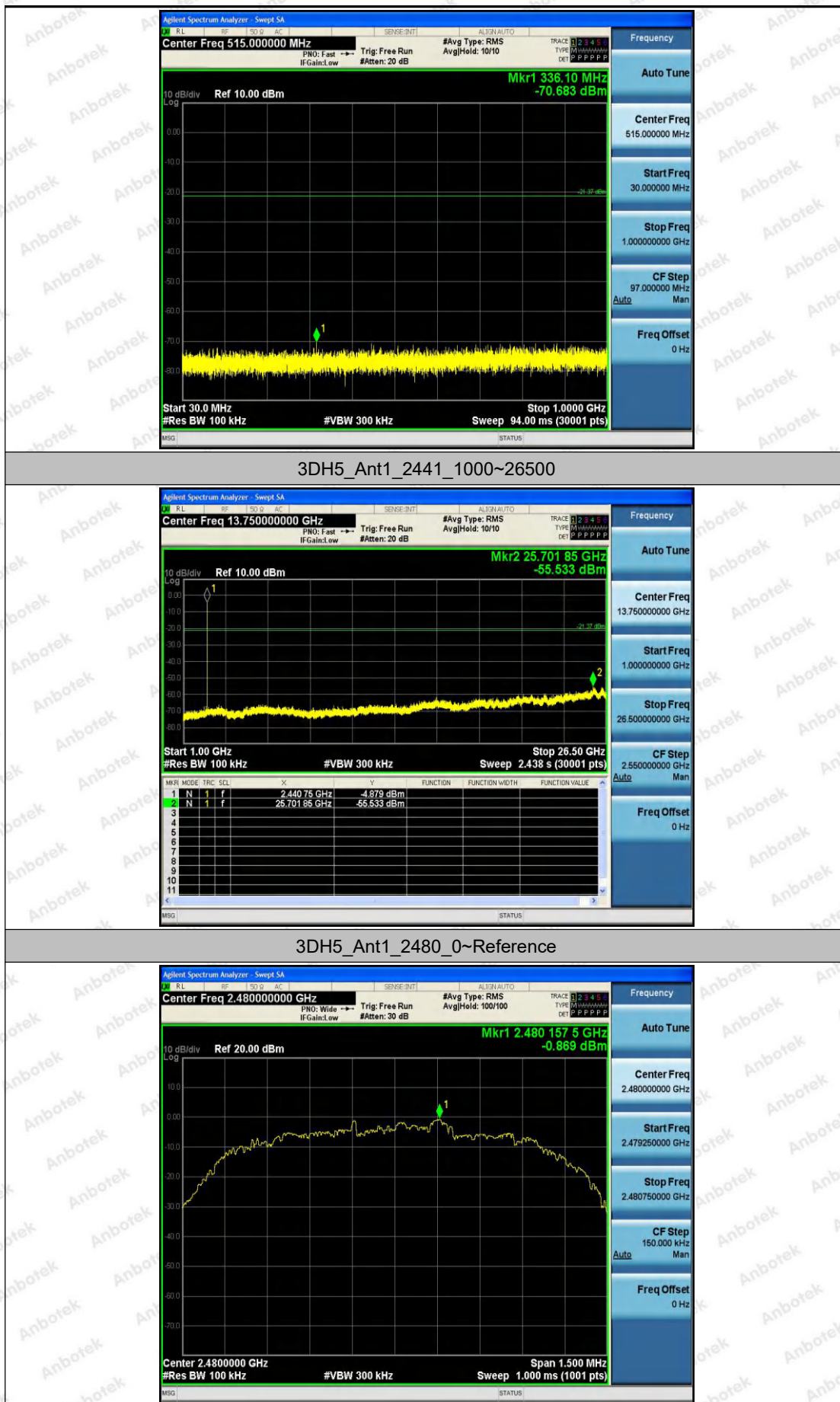
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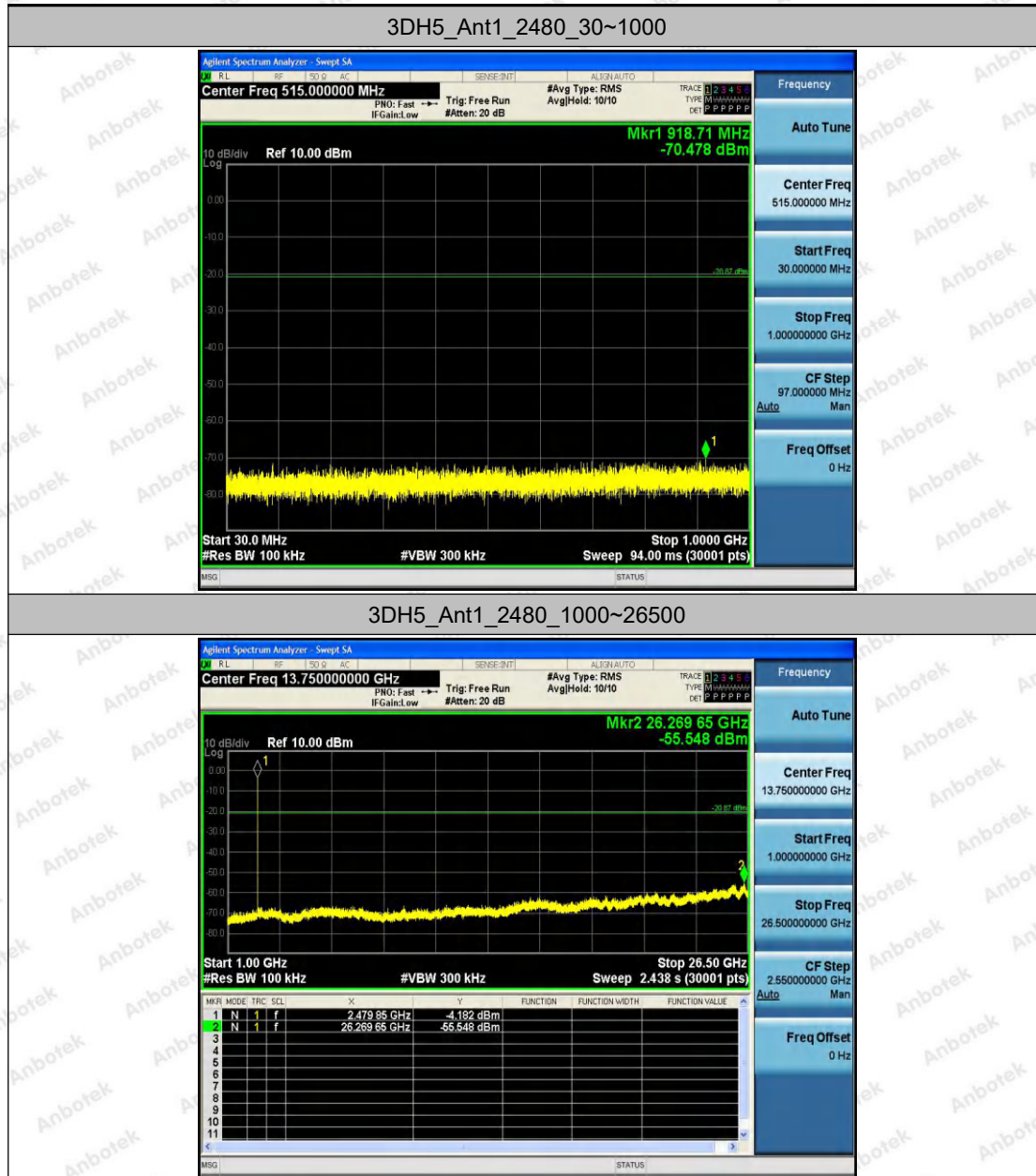


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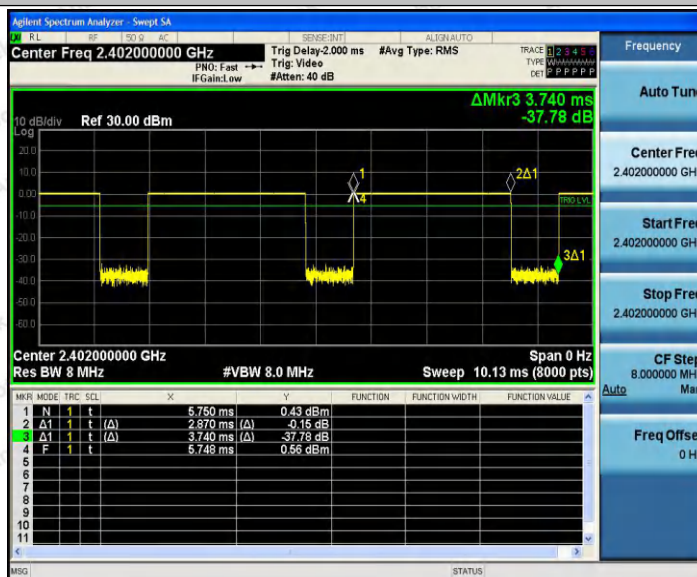
Appendix I: Duty Cycle

Test Result

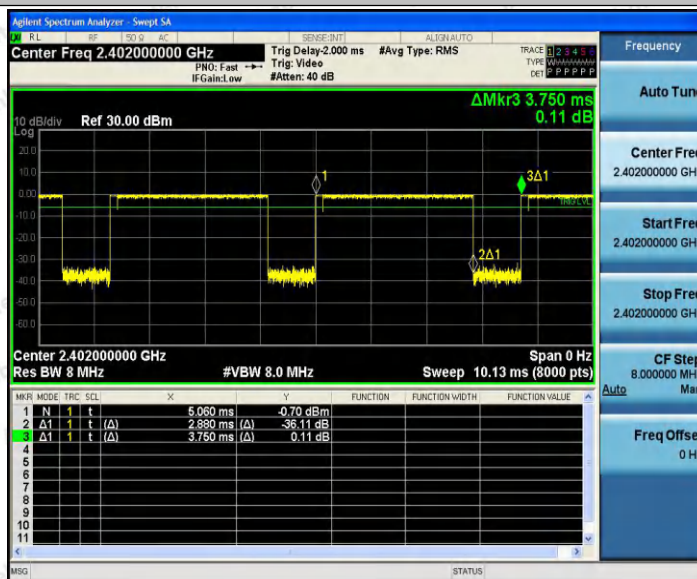
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

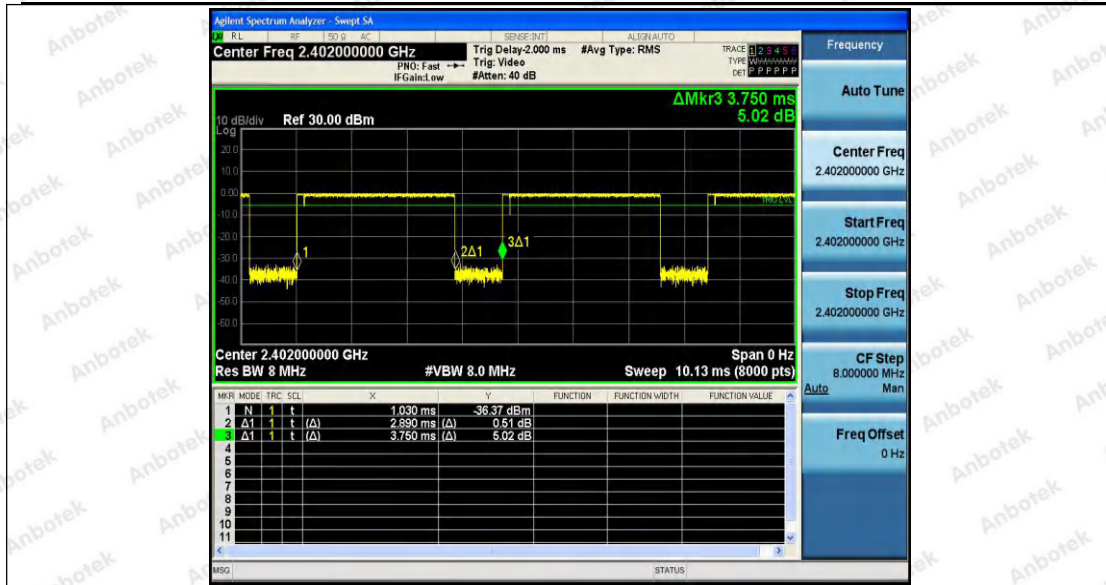
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---