

Appendix Test Data

Report No.:	18220WC10241401	Test Date:	2021.11.3
Test Engineer:	<i>Tony 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	0.951	2401.535	2402.486	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.334	2402.654	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.272	2479.361	2480.633	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.314	2440.343	2441.657	---	PASS
		2480	1.272	2479.349	2480.621	---	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



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89418	2401.55 2	2402.446	---	PASS
		2441	0.88802	2440.55 4	2441.443	---	PASS
		2480	0.89818	2479.55 1	2480.449	---	PASS
2DH5	Ant1	2402	1.1956	2401.39 9	2402.595	---	PASS
		2441	1.1992	2440.39 8	2441.598	---	PASS
		2480	1.1934	2479.40 2	2480.595	---	PASS
3DH5	Ant1	2402	1.2175	2401.38 0	2402.597	---	PASS
		2441	1.2071	2440.38 6	2441.593	---	PASS
		2480	1.2070	2479.38 6	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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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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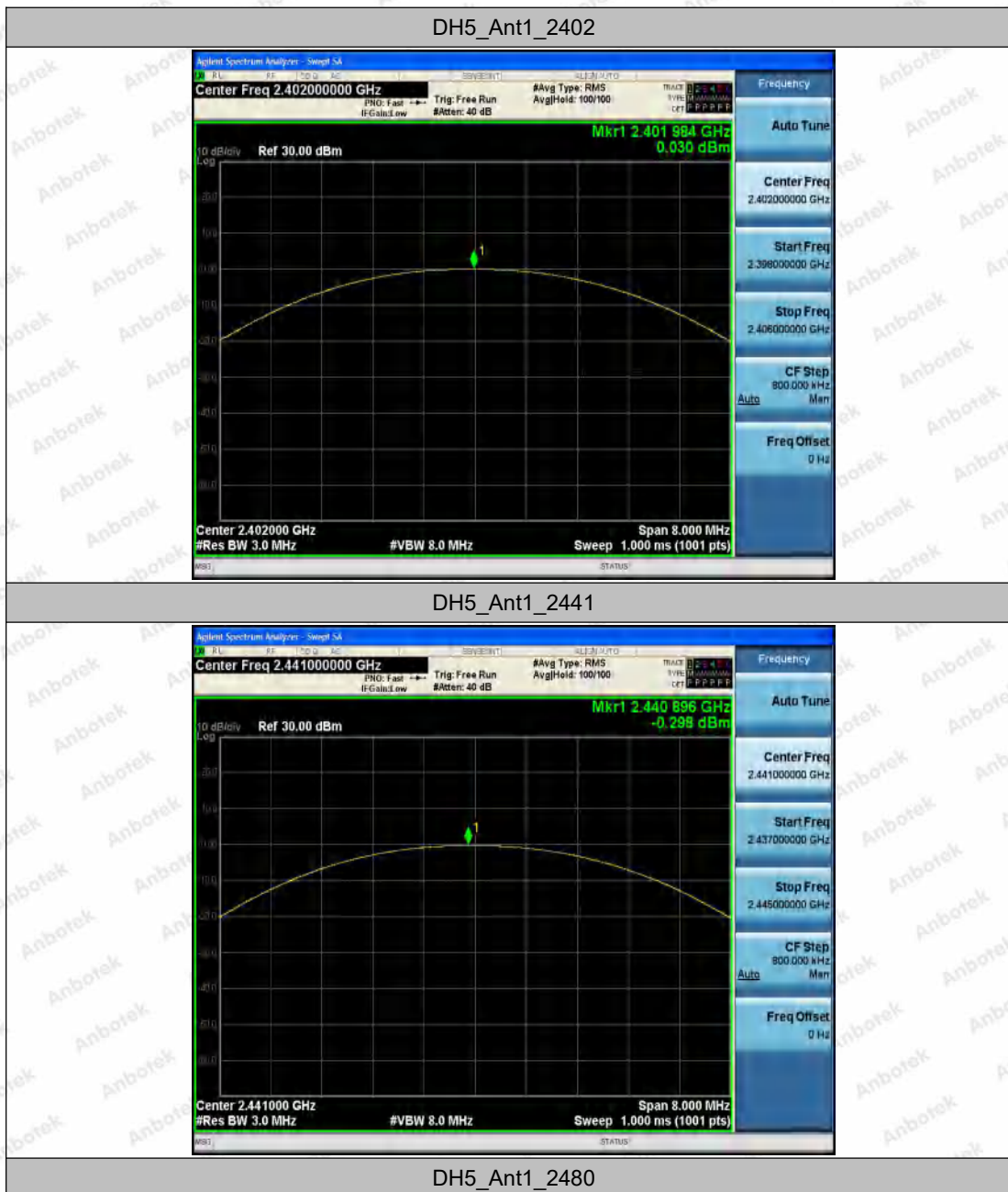
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.03	≤20.97	PASS
		2441	-0.3	≤20.97	PASS
		2480	0.61	≤20.97	PASS
2DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-0.95	≤20.97	PASS
		2480	-0.12	≤20.97	PASS
3DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.85	≤20.97	PASS
		2480	-0.02	≤20.97	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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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.89	≥ 0.634	PASS
2DH5	Ant1	Hop	0.988	≥ 0.880	PASS
3DH5	Ant1	Hop	1.068	≥ 0.876	PASS

Test Graphs





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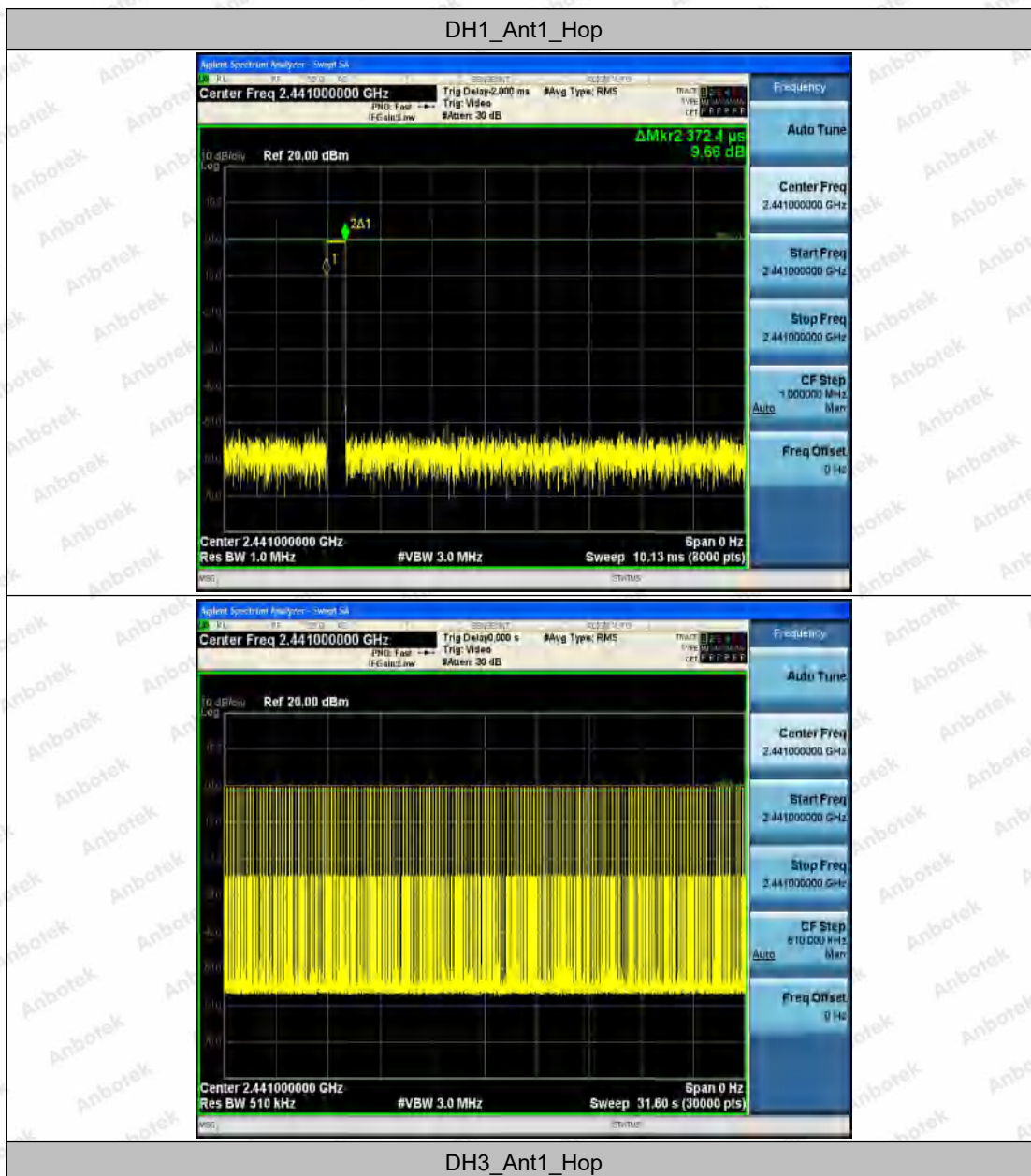
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	161	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.88	113	0.325	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	98	0.282	≤0.4	PASS

Test Graphs



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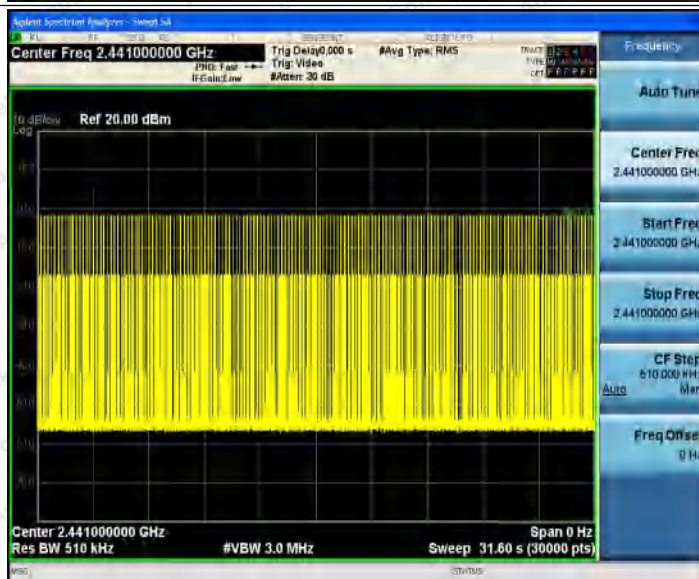
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2DH1_Ant1_Hop



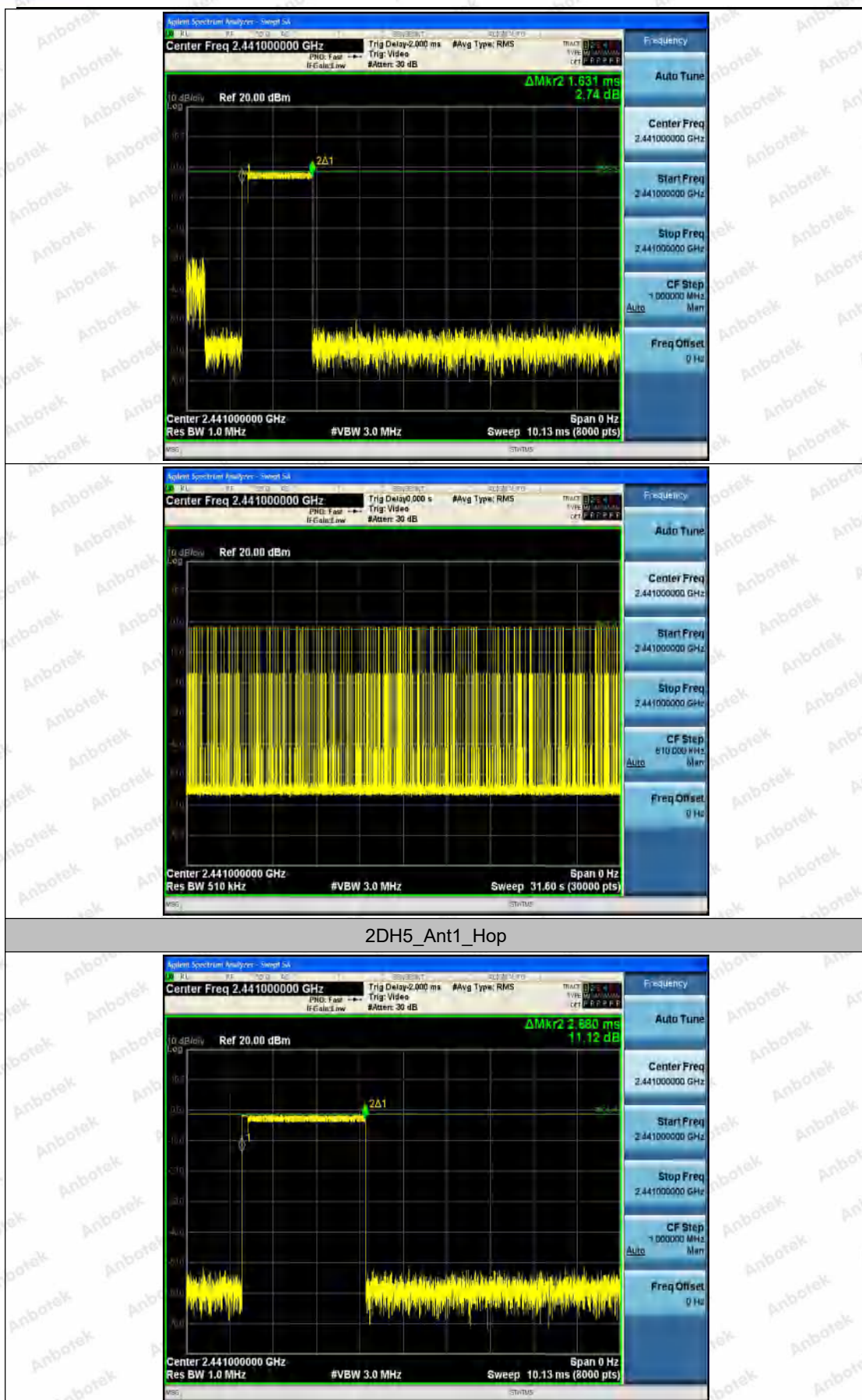
2DH3_Ant1_Hop

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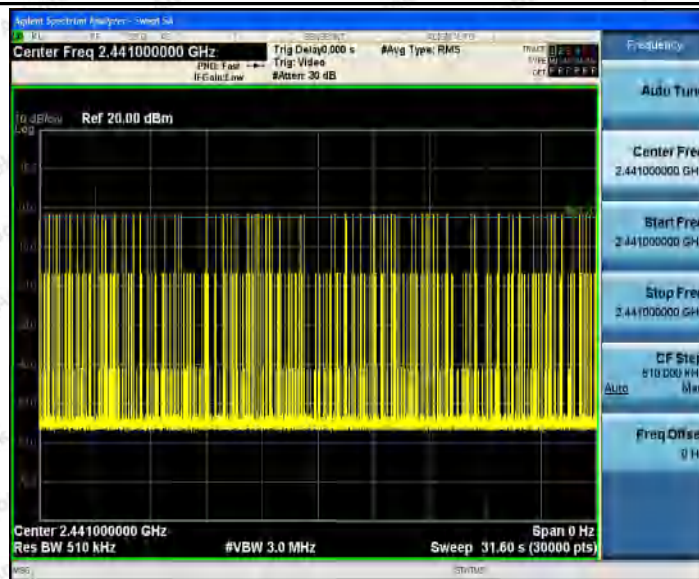


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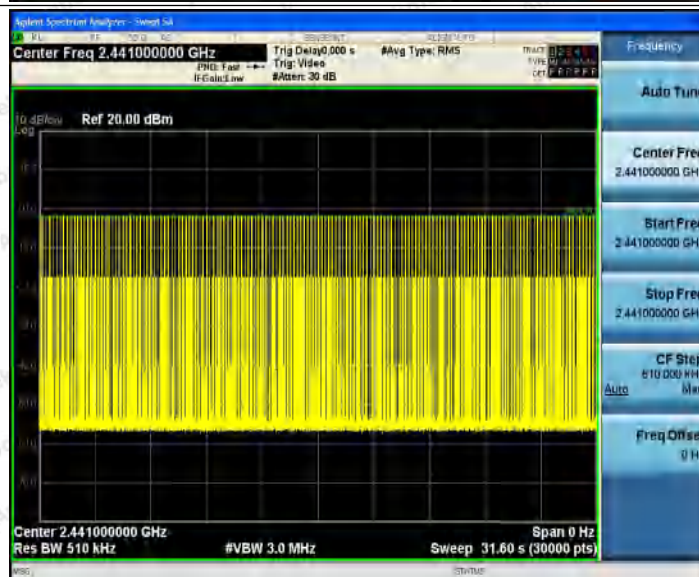
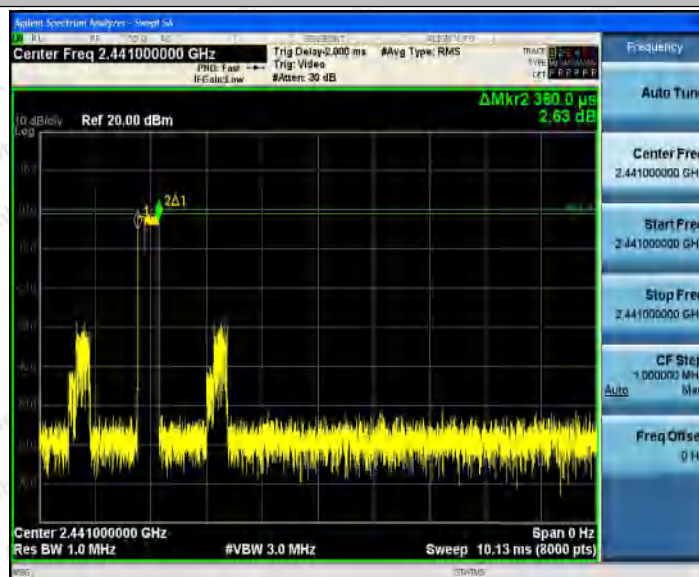
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3DH1_Ant1_Hop



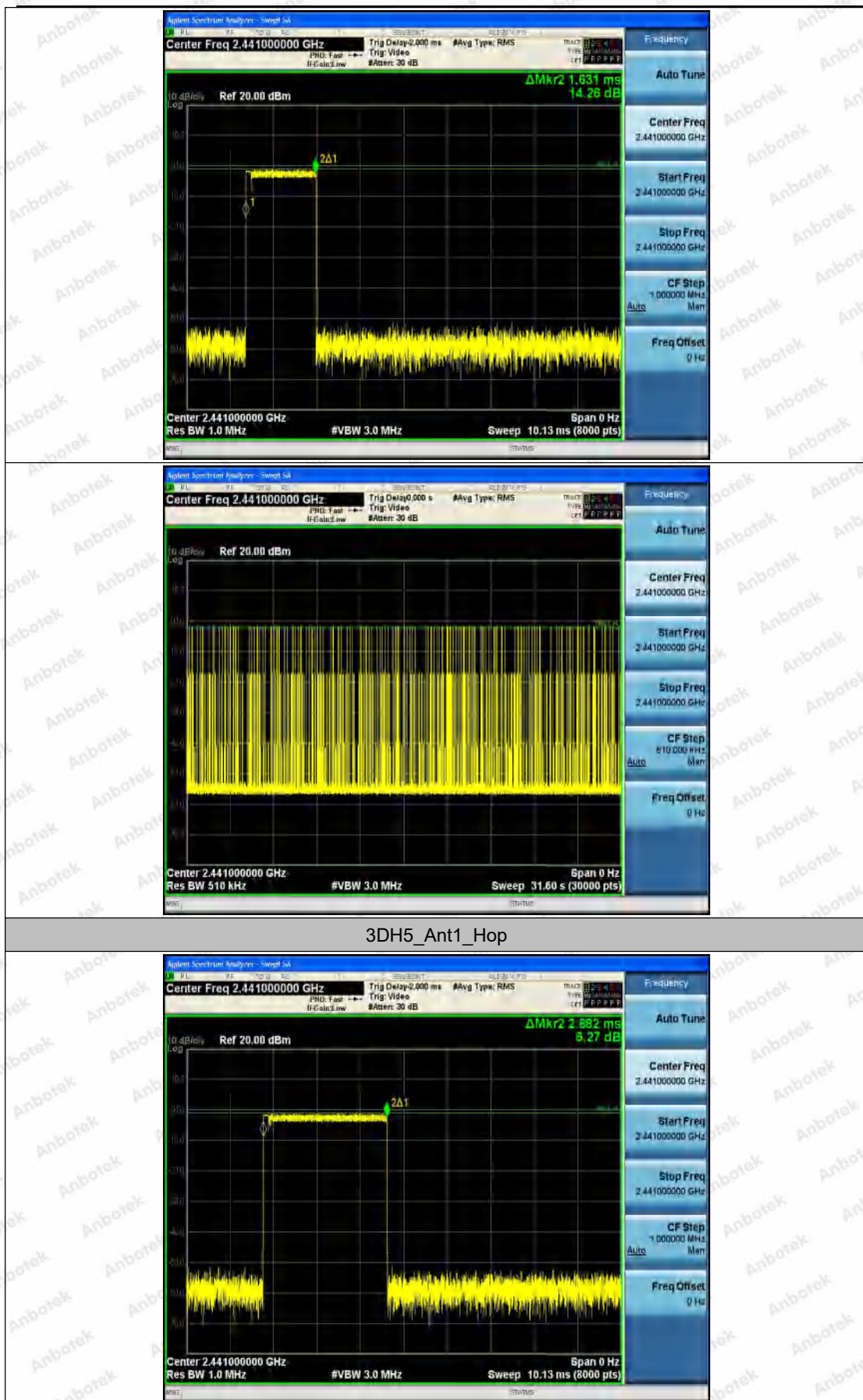
3DH3_Ant1_Hop

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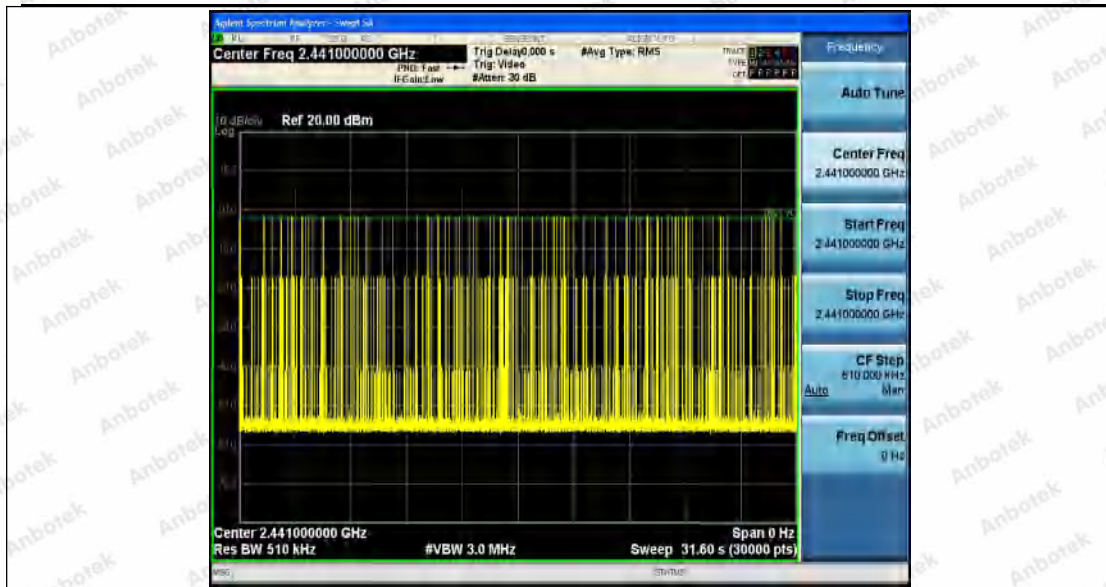


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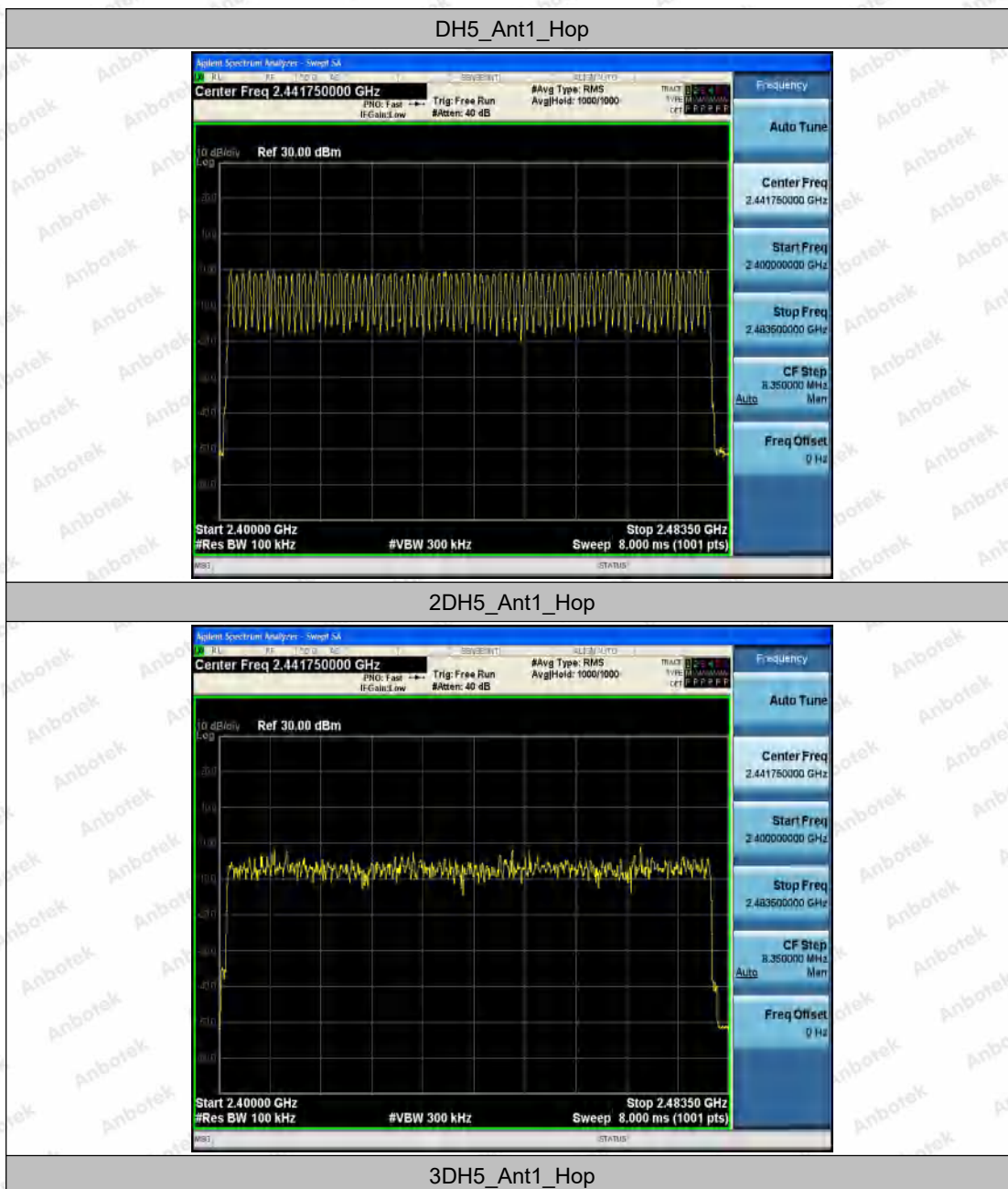
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Appendix F: Number of hopping channels

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

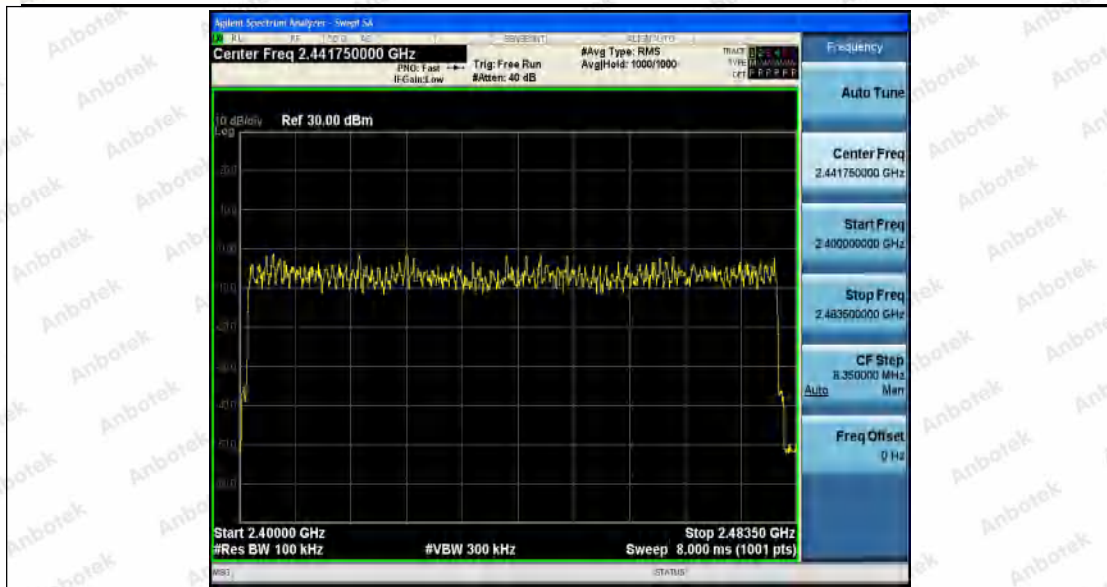


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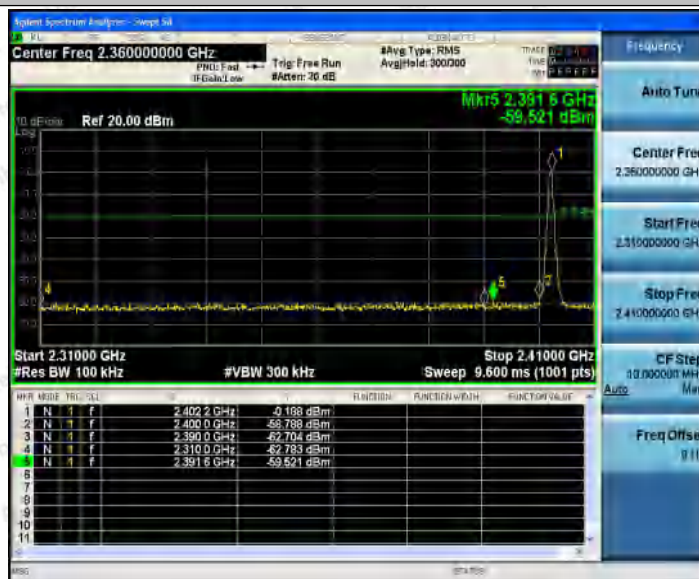
Appendix G: Band edge measurements

Test Result

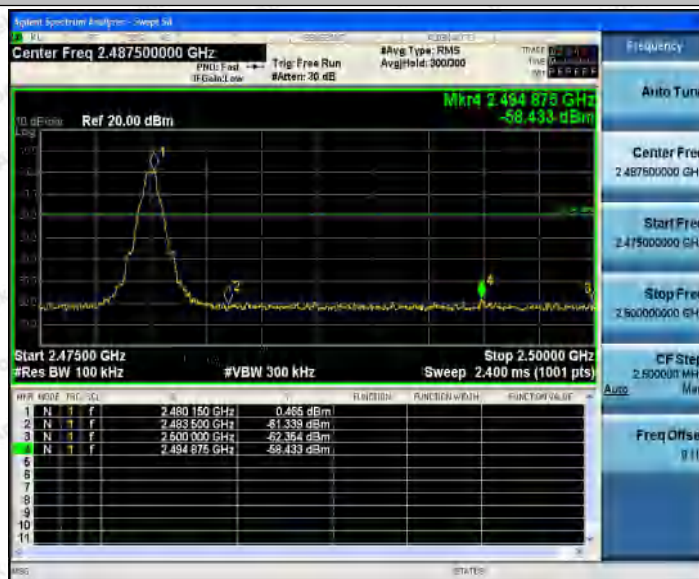
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.19	-59.52	≤-20.19	PASS
		High	2480	0.47	-58.43	≤-19.54	PASS
		Low	Hop	-0.53	-59.46	≤-20.53	PASS
		High	Hop	-0.38	-61.79	≤-20.38	PASS
2DH5	Ant1	Low	2402	-1.60	-56.54	≤-21.6	PASS
		High	2480	-1.19	-59.42	≤-21.19	PASS
		Low	Hop	-3.36	-59.99	≤-23.36	PASS
		High	Hop	-2.03	-61.11	≤-22.03	PASS
3DH5	Ant1	Low	2402	-1.34	-57.21	≤-21.34	PASS
		High	2480	-1.25	-59.42	≤-21.25	PASS
		Low	Hop	-4.44	-59.75	≤-24.44	PASS
		High	Hop	-5.07	-61.57	≤-25.07	PASS

Test Graphs

DH5_Ant1_Low_2402



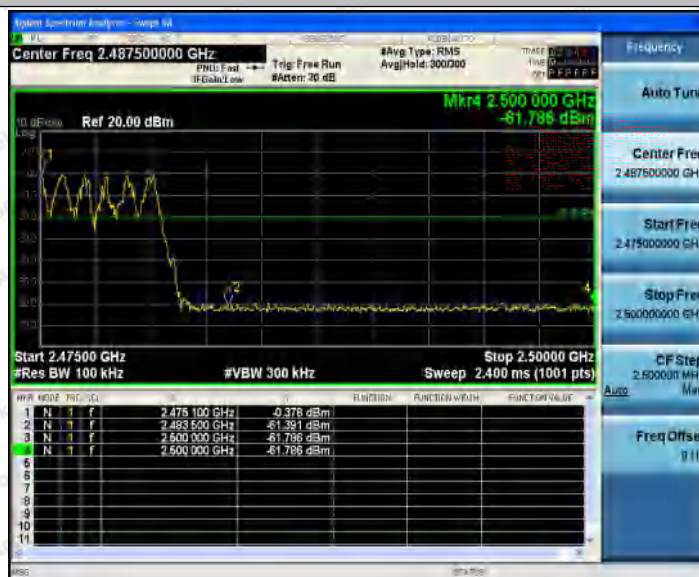
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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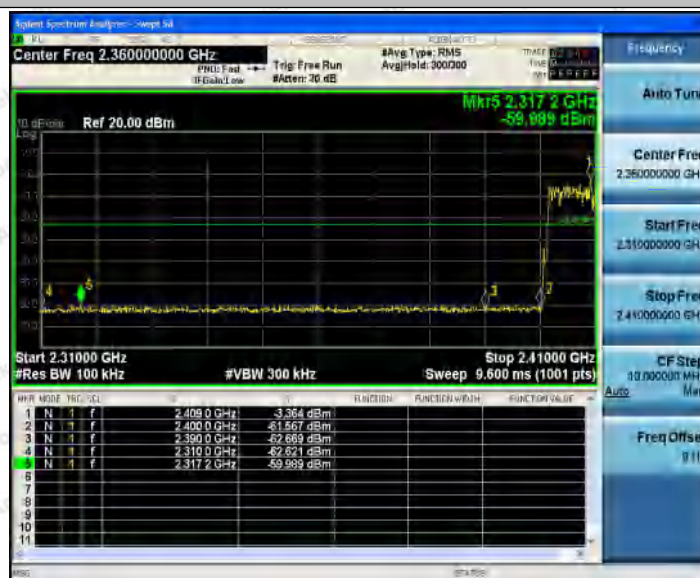
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2DH5_Ant1_High_2480



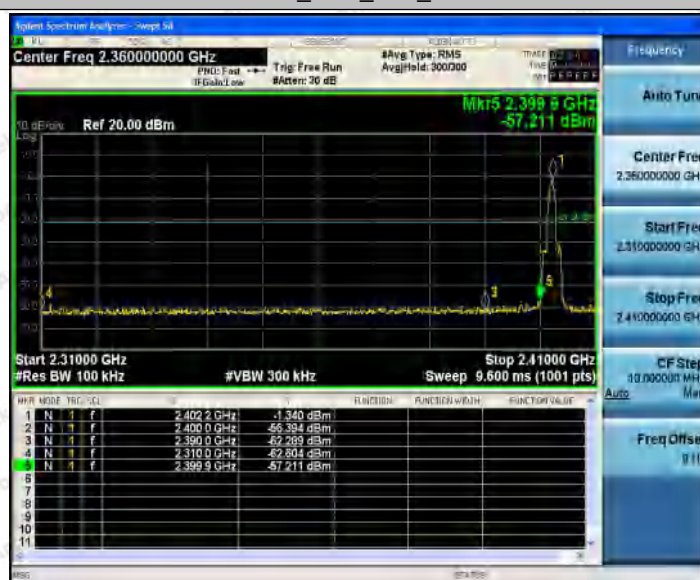
2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



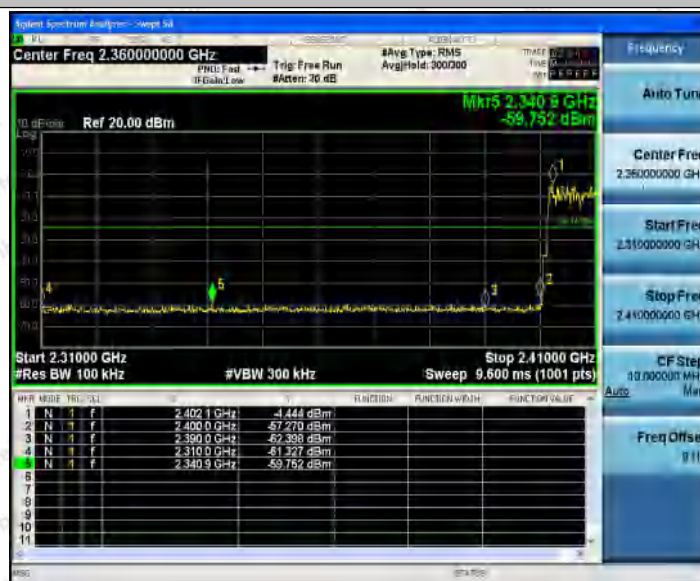
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

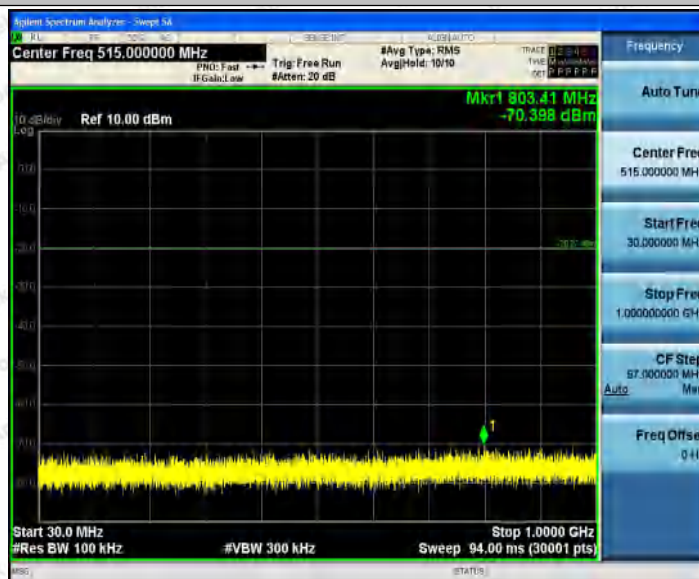
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-70.4	≤-20.27	PASS
			1000~26500	-0.27	-55.44	≤-20.27	PASS
		2441	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-69.82	≤-21.17	PASS
			1000~26500	-1.17	-55.13	≤-21.17	PASS
		2480	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-70.23	≤-19.69	PASS
			1000~26500	0.31	-54.11	≤-19.69	PASS
2DH5	Ant1	2402	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-70.88	≤-21.38	PASS
			1000~26500	-1.38	-55.44	≤-21.38	PASS
		2441	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-70.27	≤-22.16	PASS
			1000~26500	-2.16	-55.53	≤-22.16	PASS
		2480	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-71.13	≤-21.08	PASS
			1000~26500	-1.08	-55.57	≤-21.08	PASS
3DH5	Ant1	2402	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-69.91	≤-21.45	PASS
			1000~26500	-1.45	-54.33	≤-21.45	PASS
		2441	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-69.85	≤-22.49	PASS
			1000~26500	-2.49	-55.29	≤-22.49	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-70.44	≤-21.23	PASS
			1000~26500	-1.23	-54.77	≤-21.23	PASS

Test Graphs

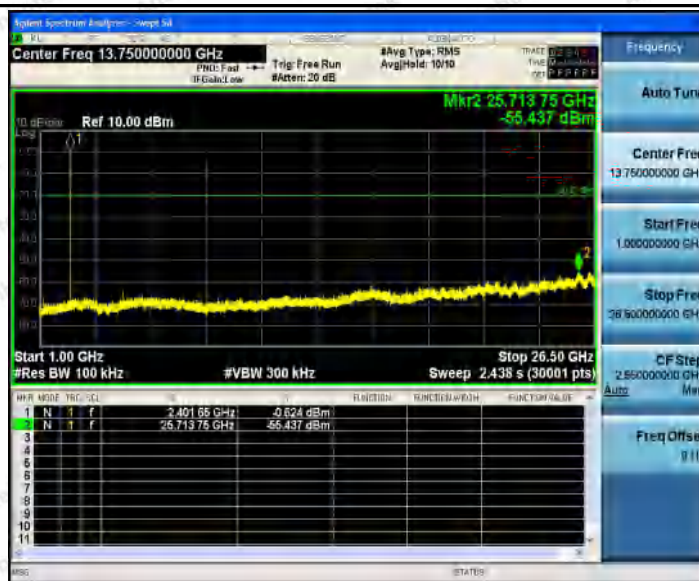
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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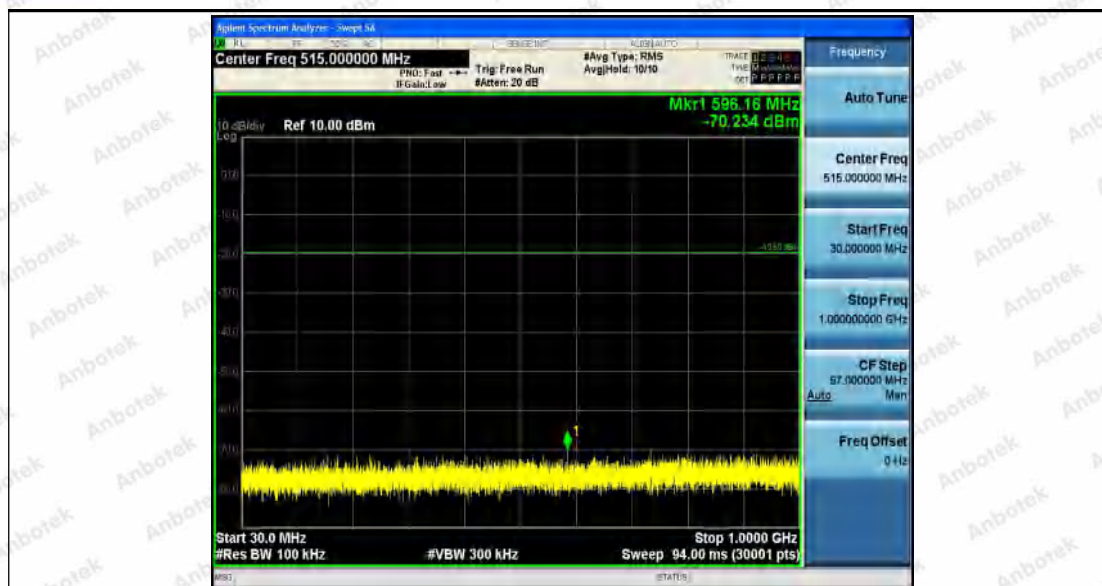
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

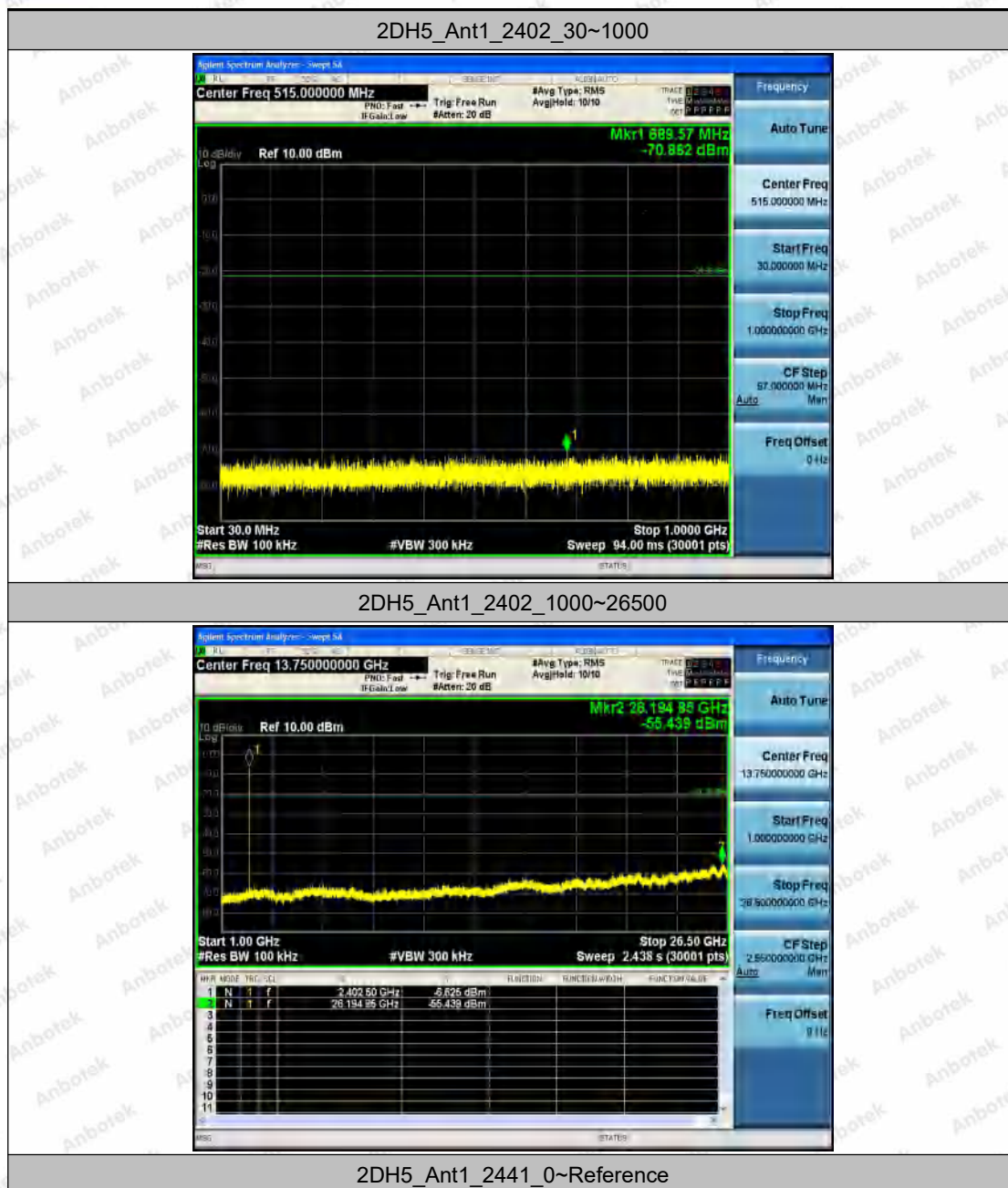


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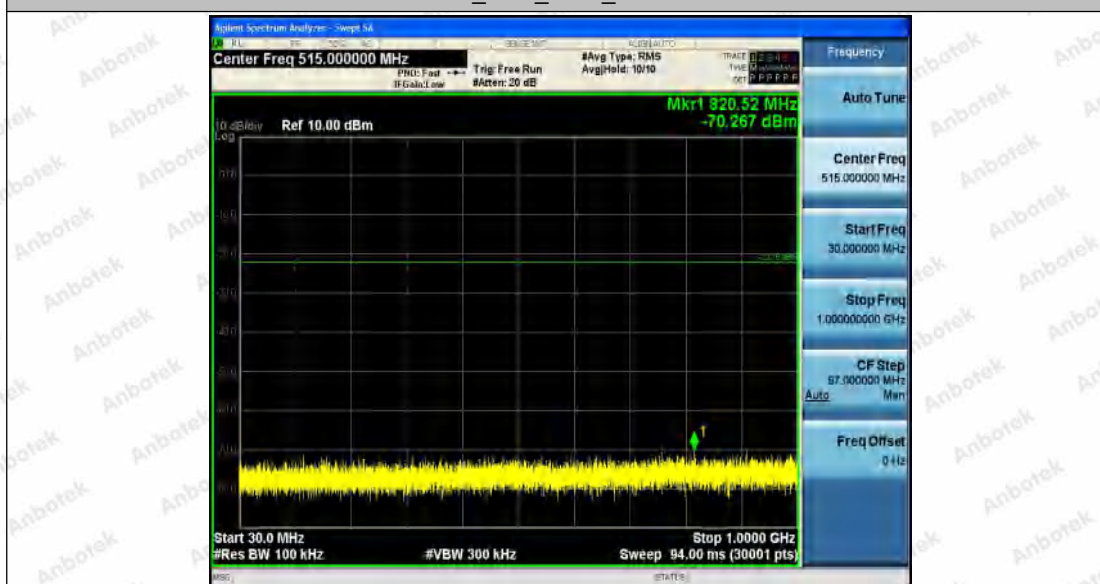
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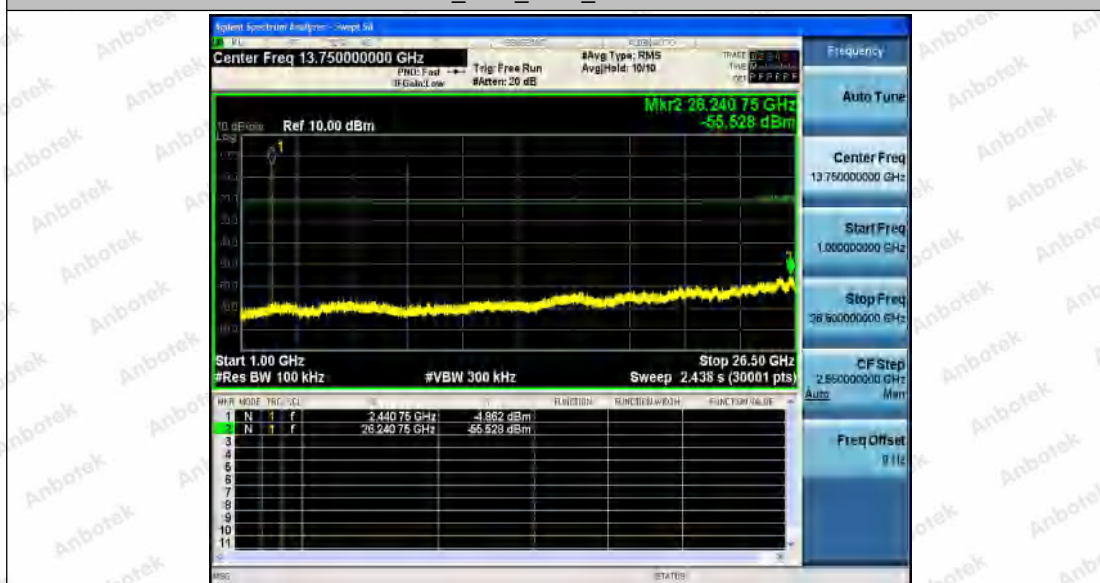
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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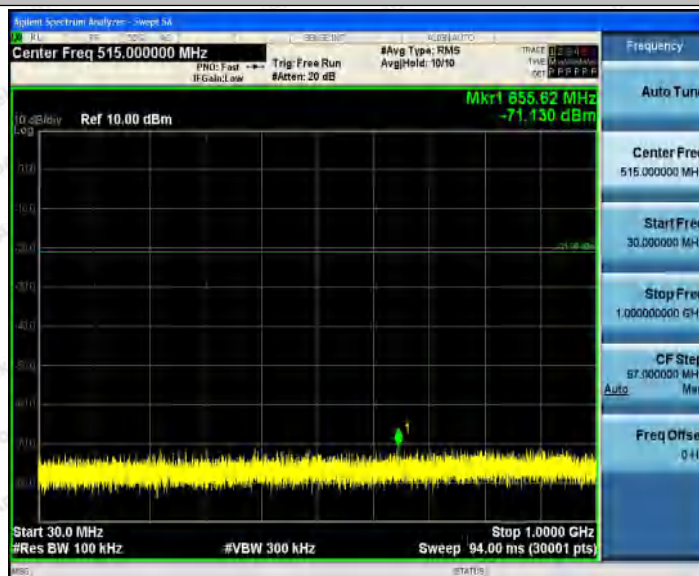
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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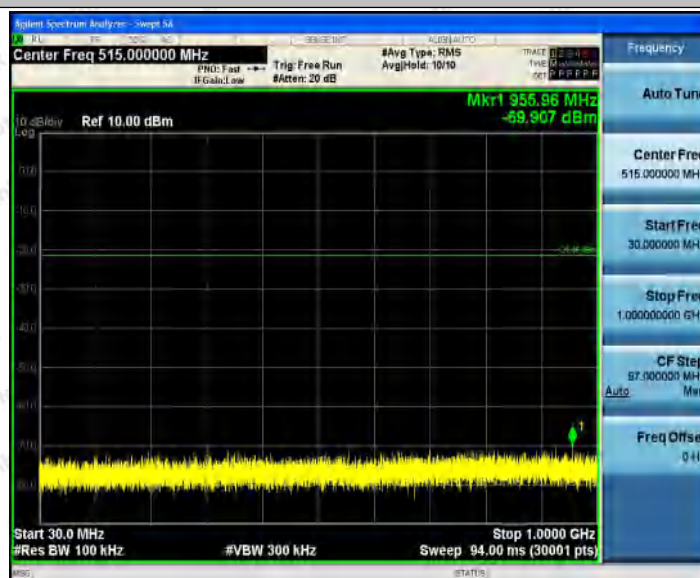
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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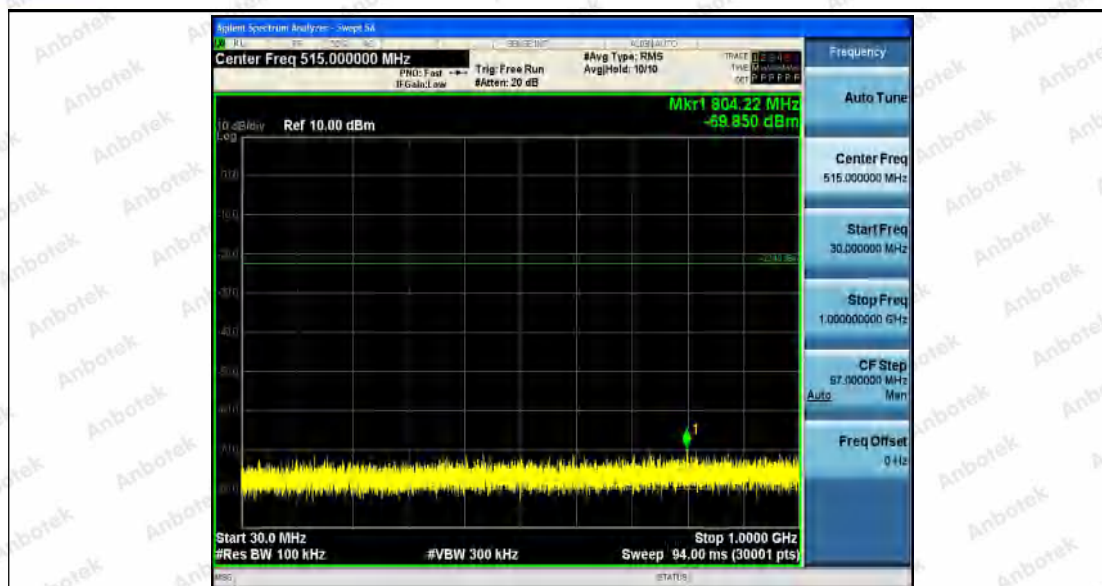
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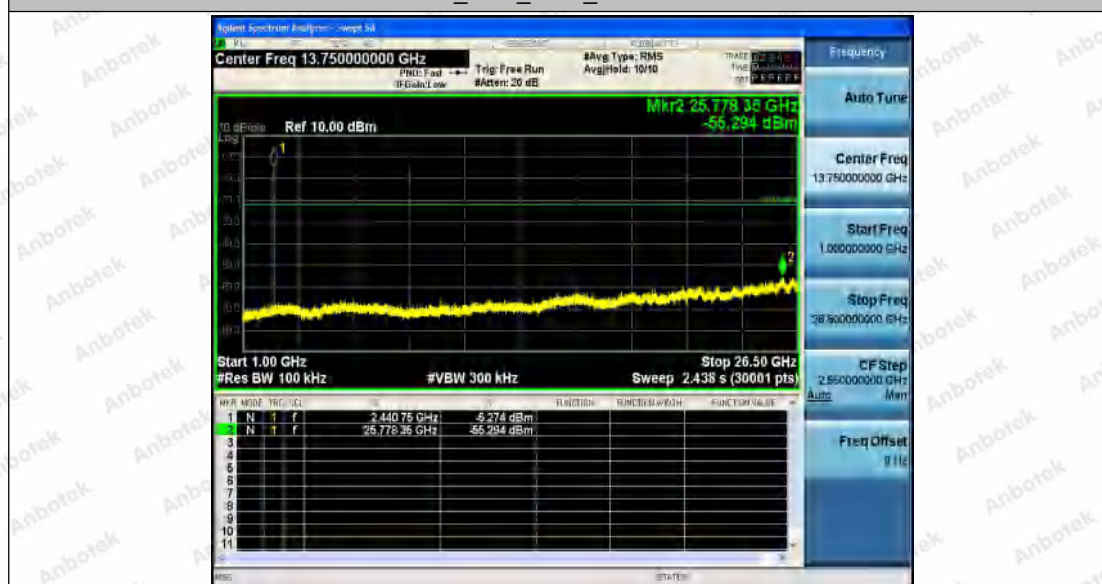
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

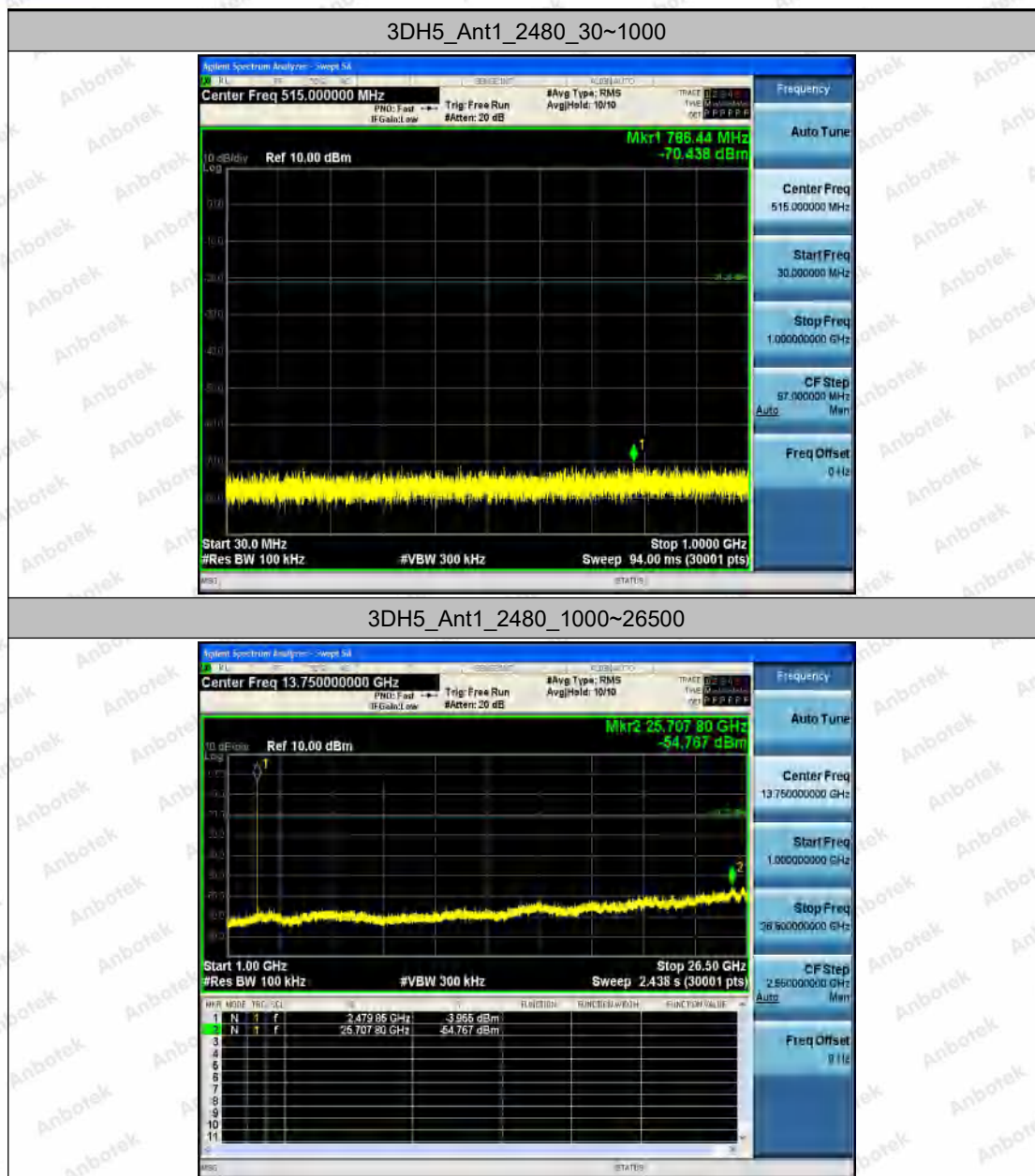


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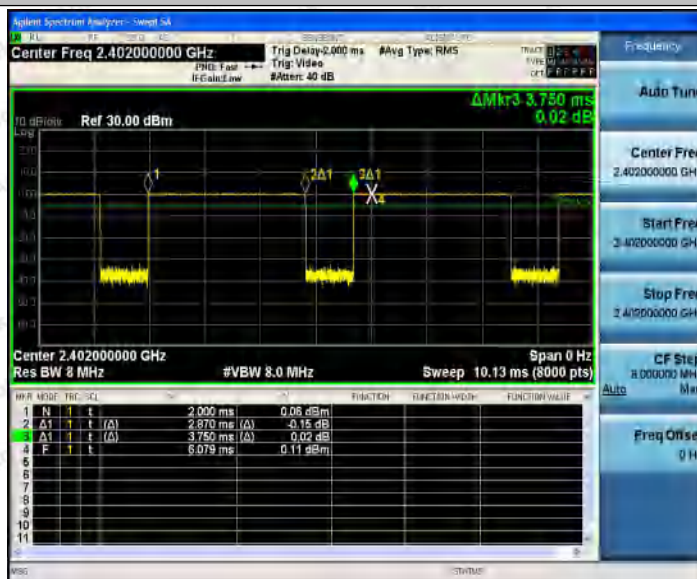
Appendix I: Duty Cycle

Test Result

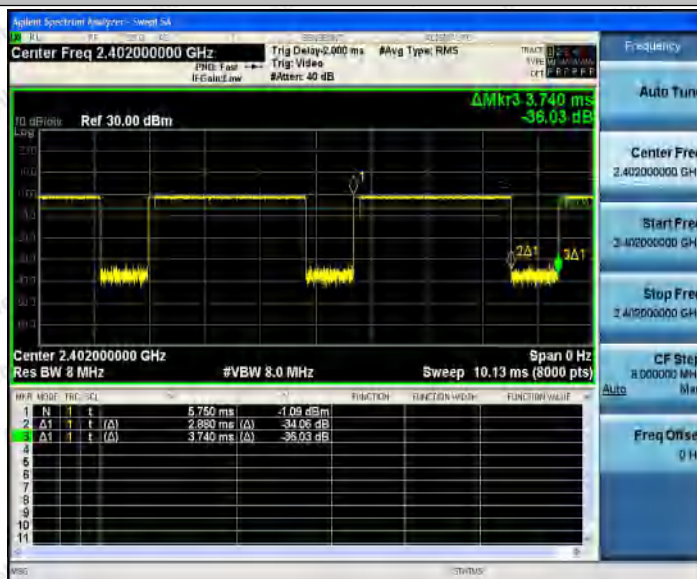
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

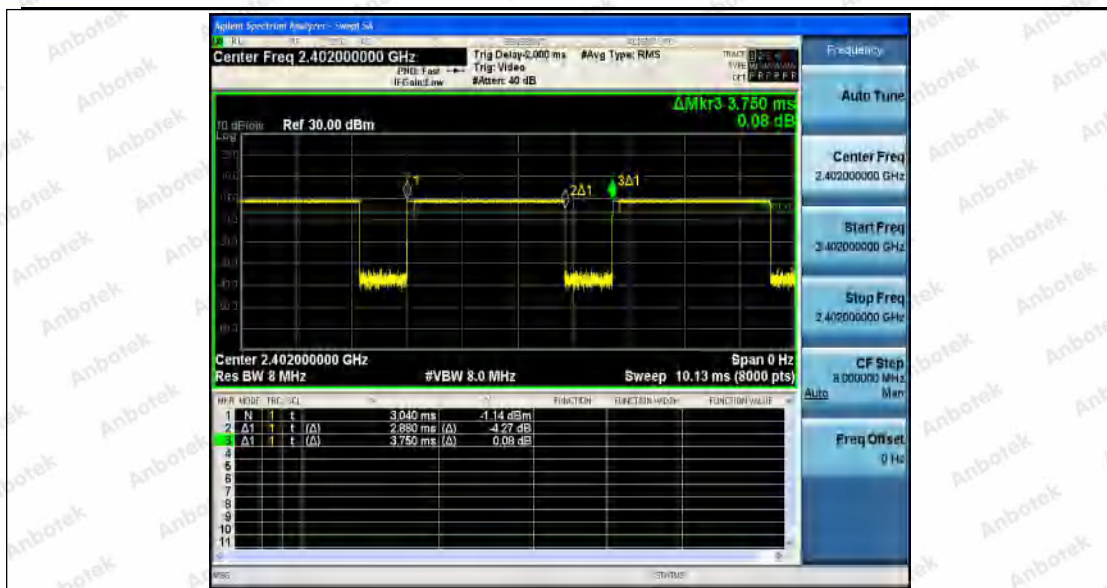
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---