

Appendix Test Data

Report No.:	18220WC10264901	Test Sample No.:	1-2-2
Start Test Date:	2021.12.1	Finish Test Date:	2021.12.3
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

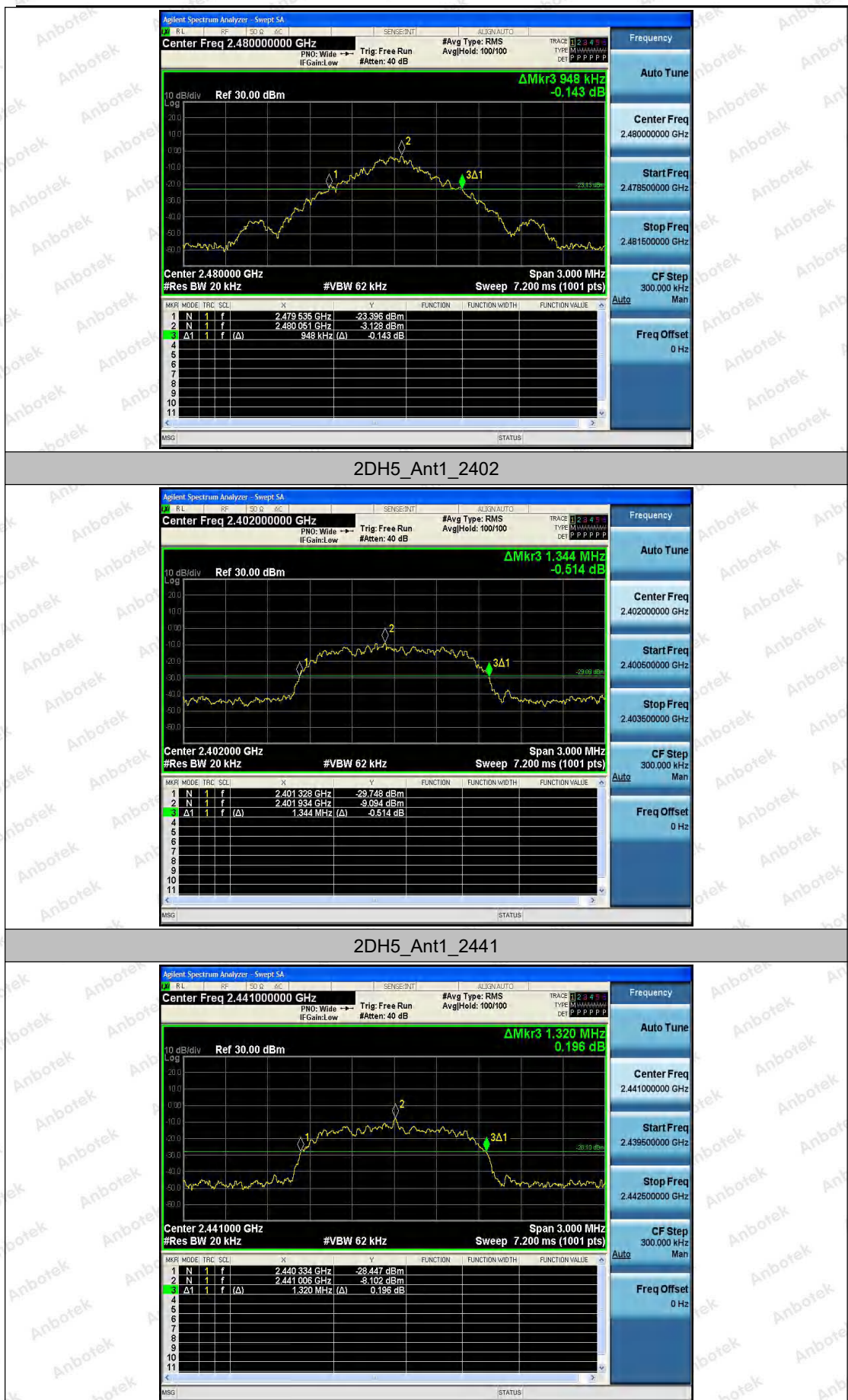
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.538	2402.483	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.948	2479.535	2480.483	---	PASS
2DH5	Ant1	2402	1.344	2401.328	2402.672	---	PASS
		2441	1.320	2440.334	2441.654	---	PASS
		2480	1.317	2479.334	2480.651	---	PASS
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	PASS
		2441	1.308	2440.343	2441.651	---	PASS
		2480	1.338	2479.322	2480.660	---	PASS

Test Graphs





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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	0.89832	2401.55 2	2402.450	---	PASS
		2441	0.88852	2440.55 3	2441.442	---	PASS
		2480	0.89514	2479.55 1	2480.446	---	PASS
2DH5	Ant1	2402	1.2055	2401.39 3	2402.598	---	PASS
		2441	1.1951	2440.39 8	2441.593	---	PASS
		2480	1.1776	2479.40 7	2480.584	---	PASS
3DH5	Ant1	2402	1.2120	2401.38 1	2402.593	---	PASS
		2441	1.2051	2440.38 6	2441.591	---	PASS
		2480	1.2002	2479.38 9	2480.589	---	PASS

Test Graphs



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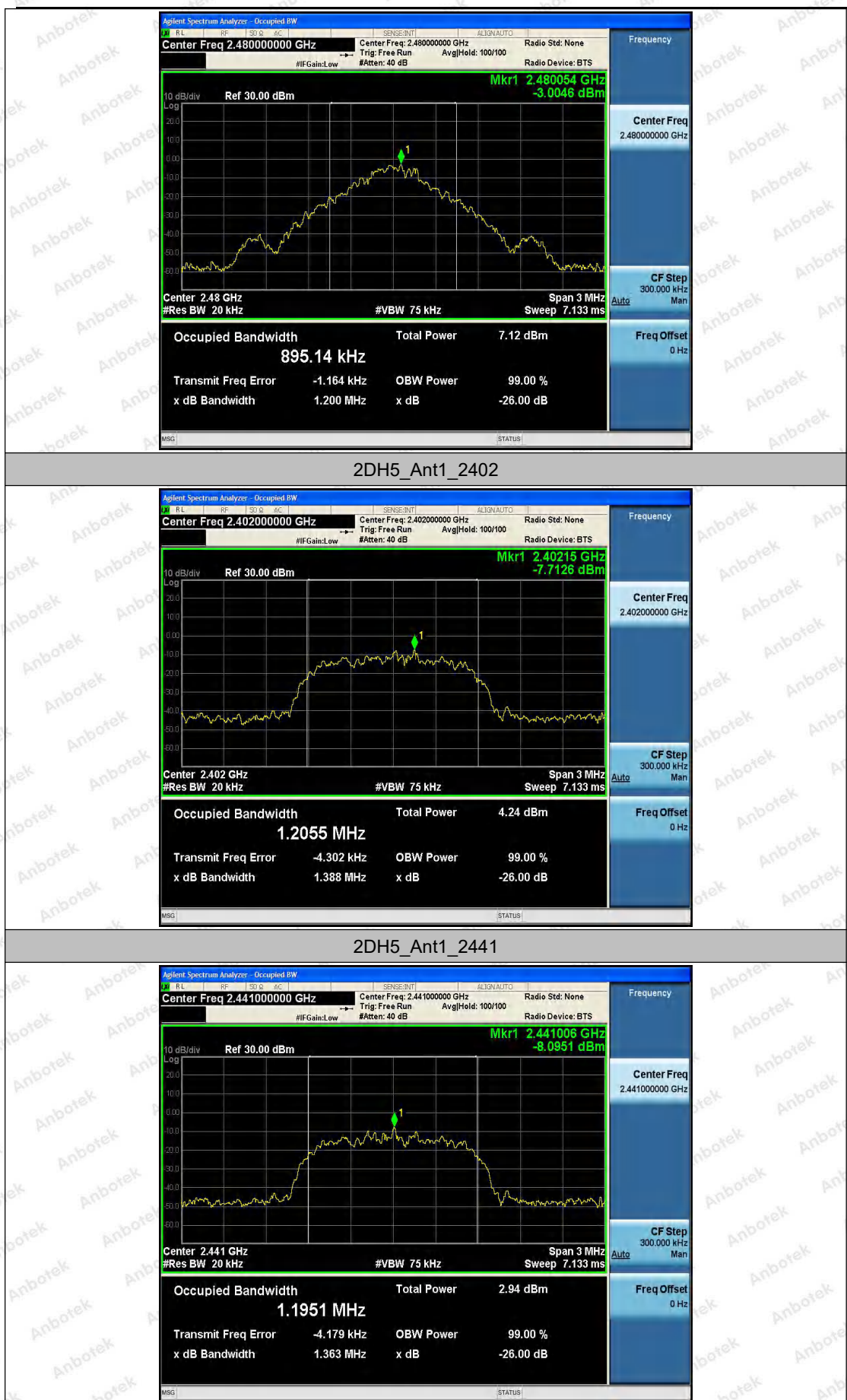
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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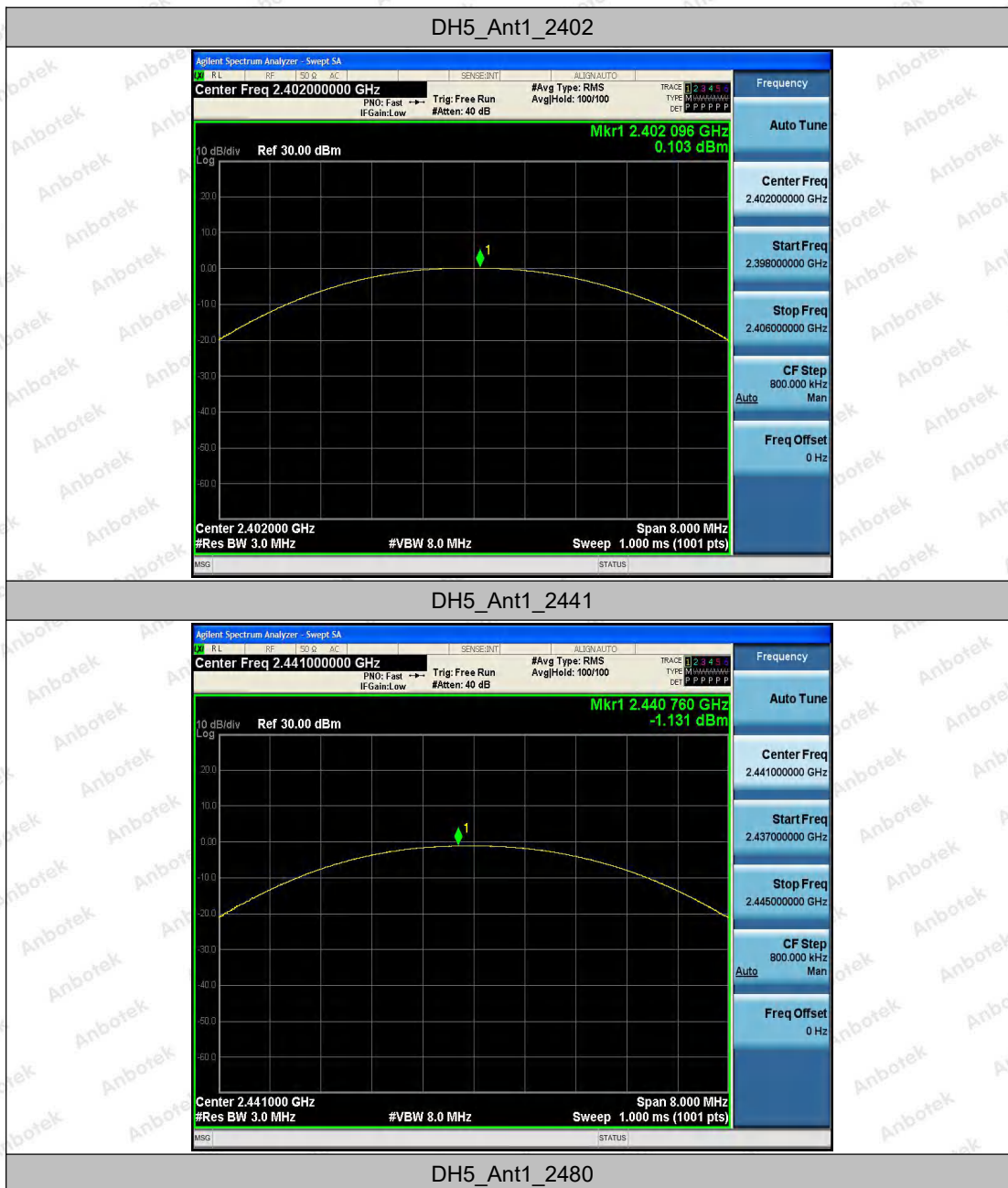
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.1	≤20.97	PASS
		2441	-1.13	≤20.97	PASS
		2480	0.63	≤20.97	PASS
2DH5	Ant1	2402	-0.76	≤20.97	PASS
		2441	-2.05	≤20.97	PASS
		2480	-0.66	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-1.9	≤20.97	PASS
		2480	-0.56	≤20.97	PASS

Test Graphs

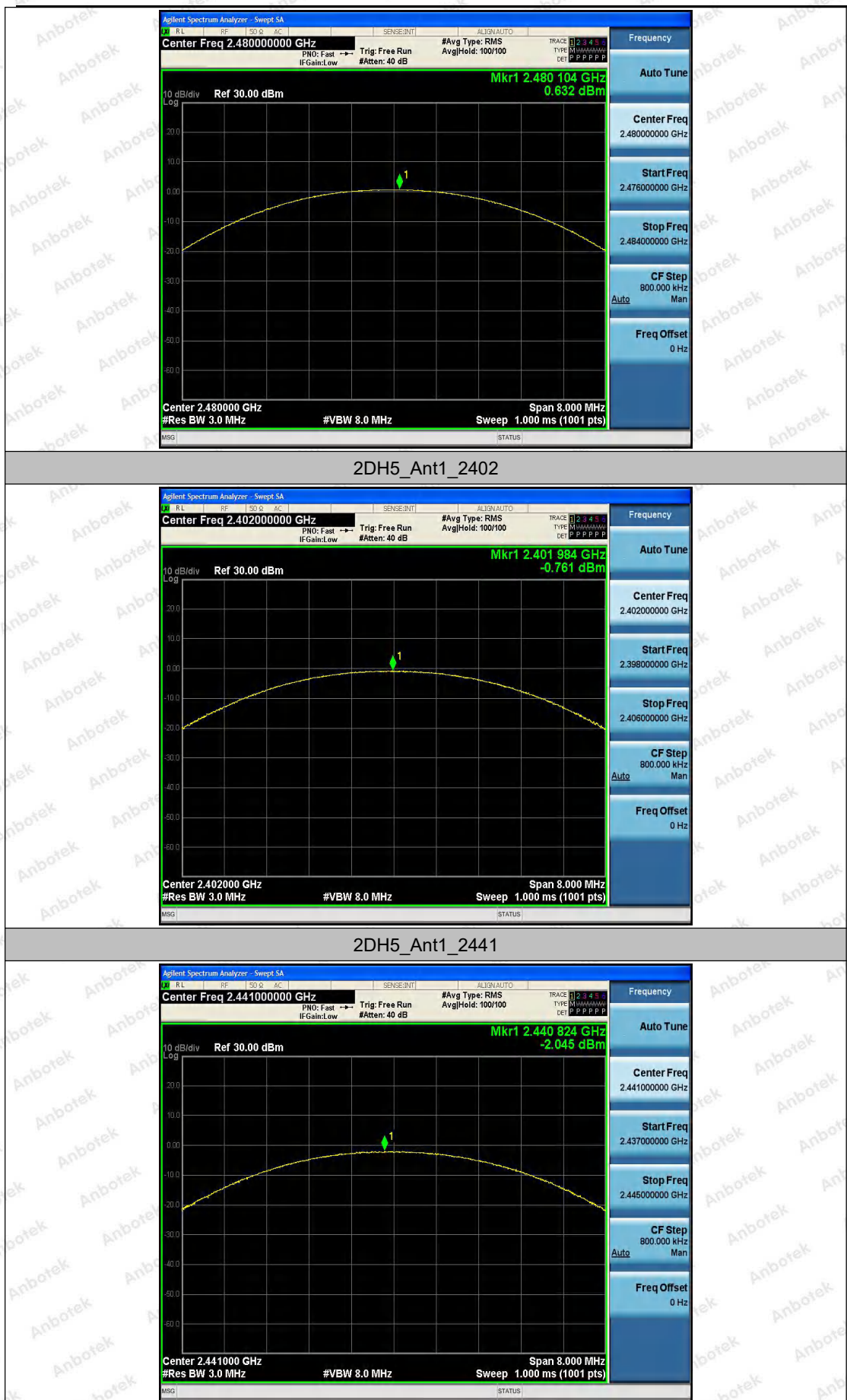


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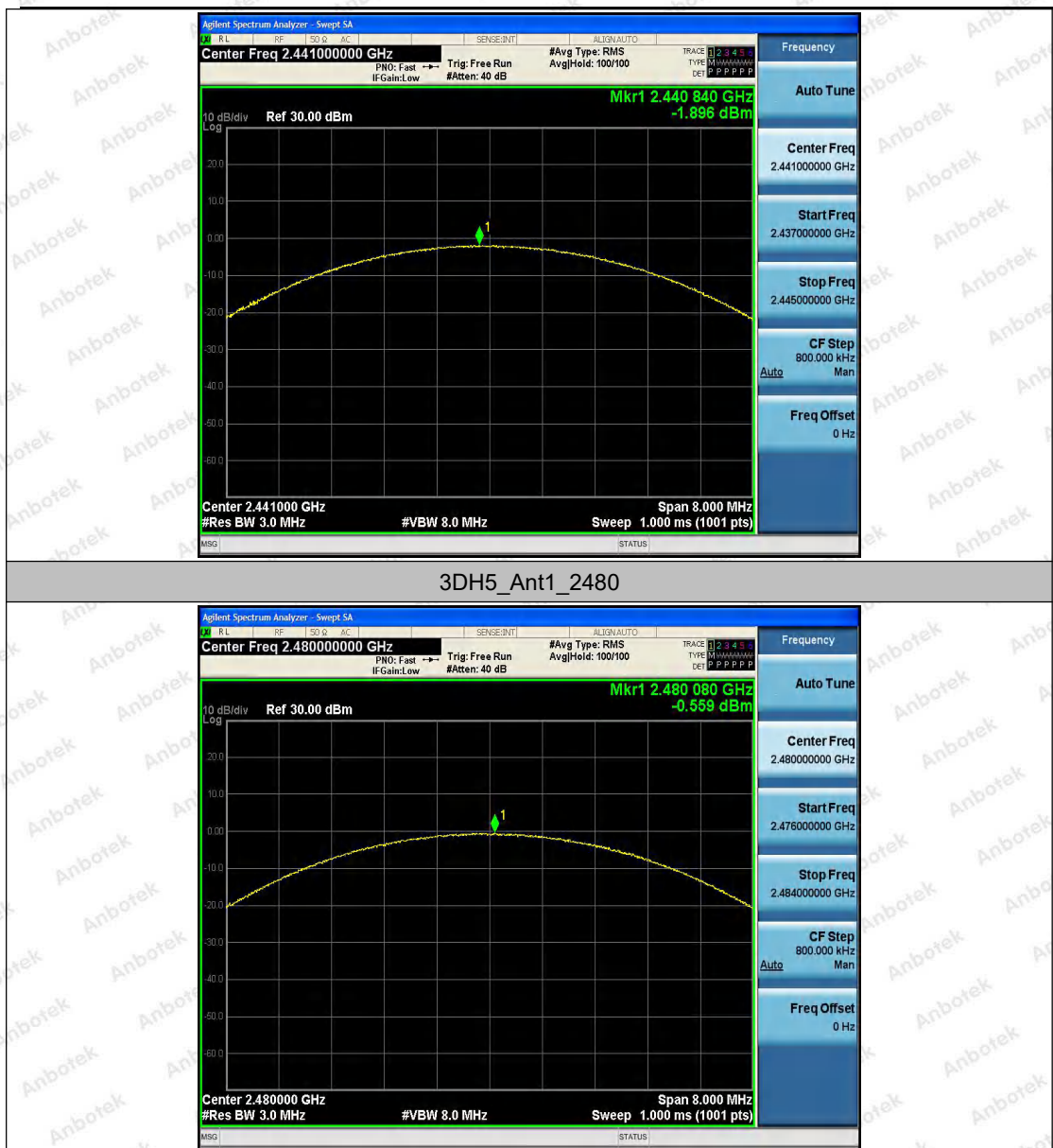
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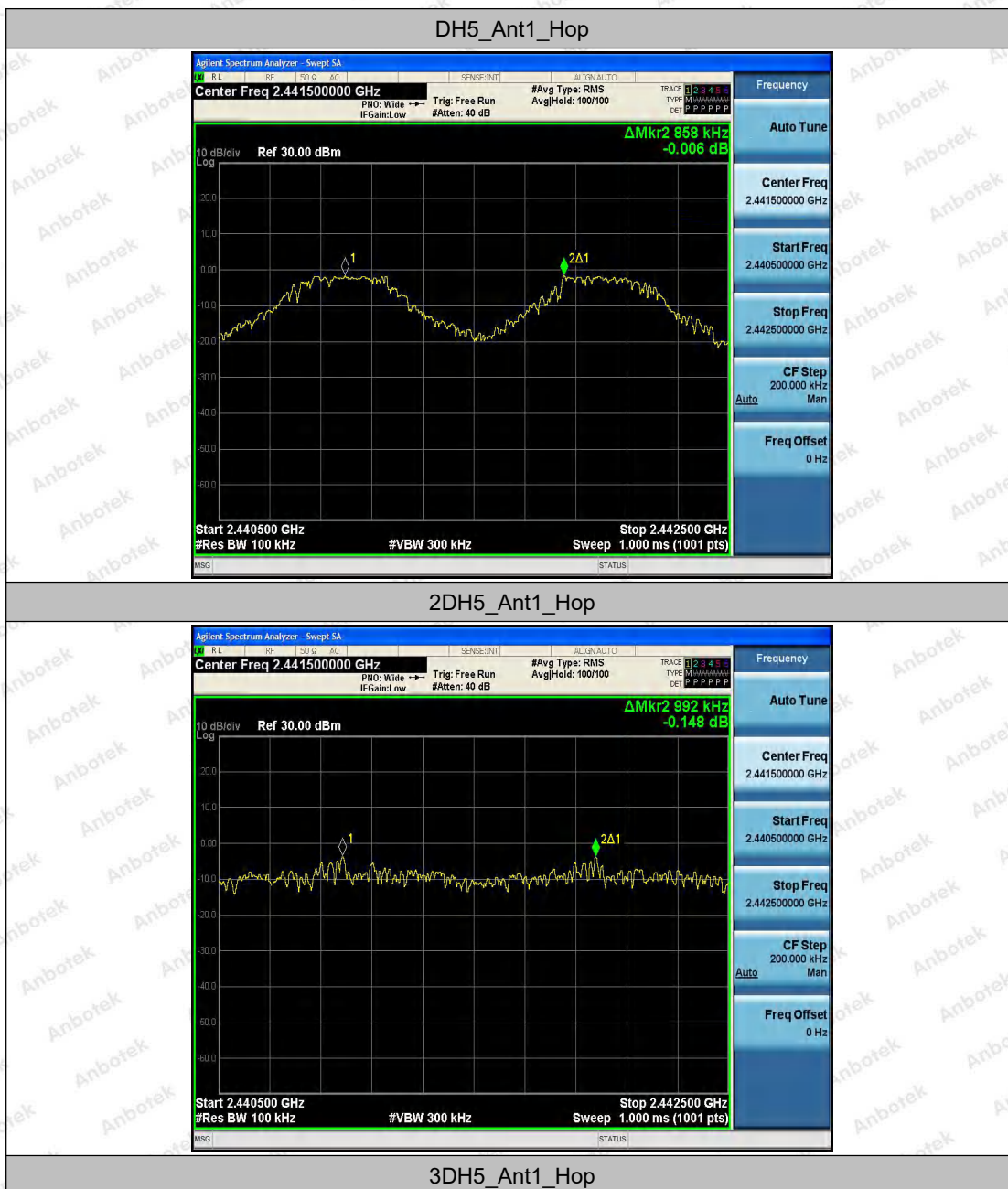
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.858	≥ 0.632	PASS
2DH5	Ant1	Hop	0.992	≥ 0.896	PASS
3DH5	Ant1	Hop	1.004	≥ 0.892	PASS

Test Graphs



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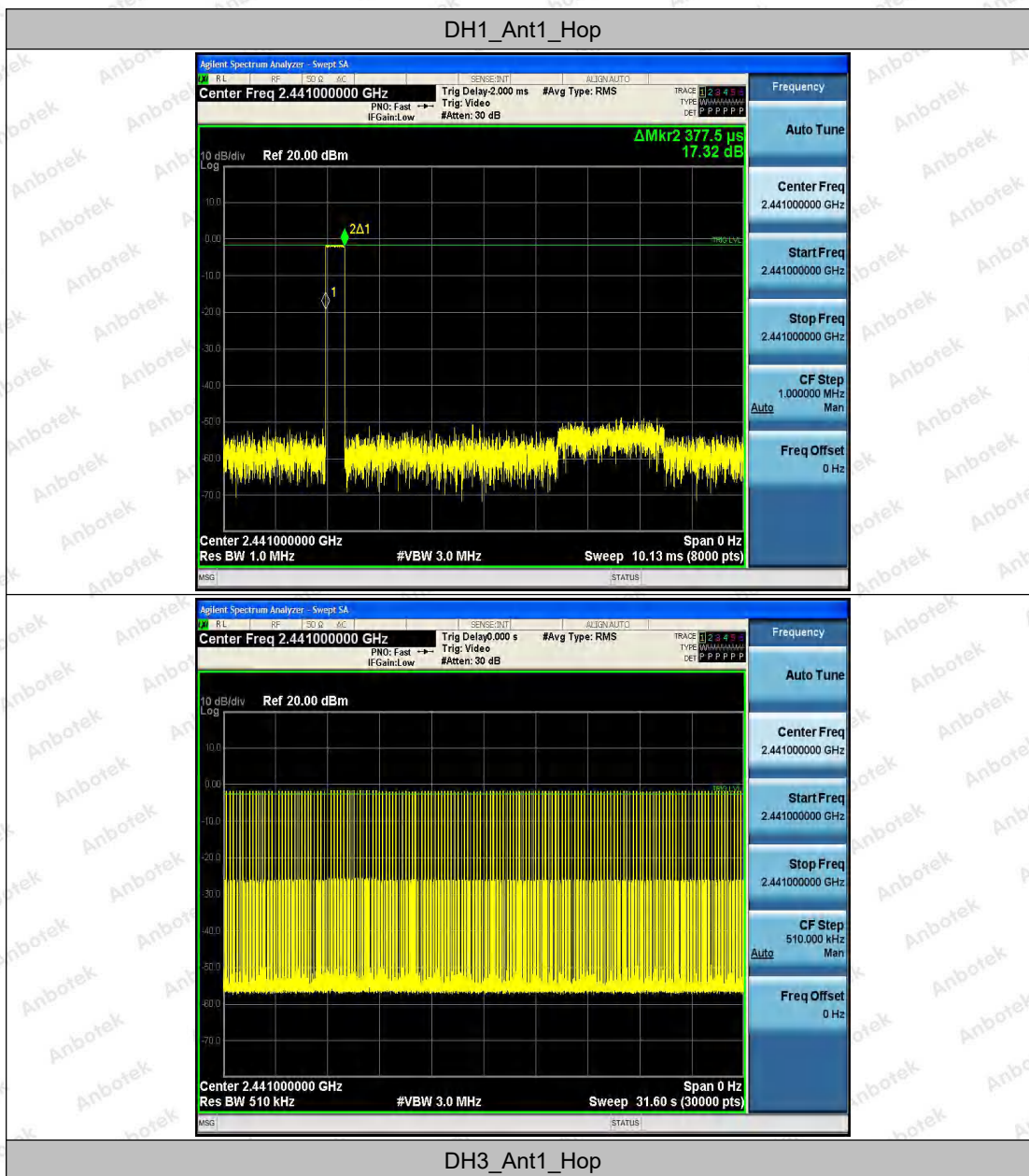
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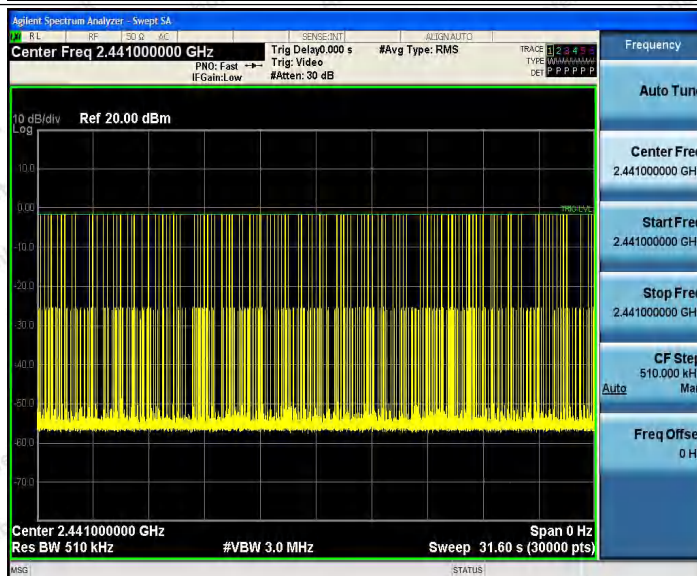
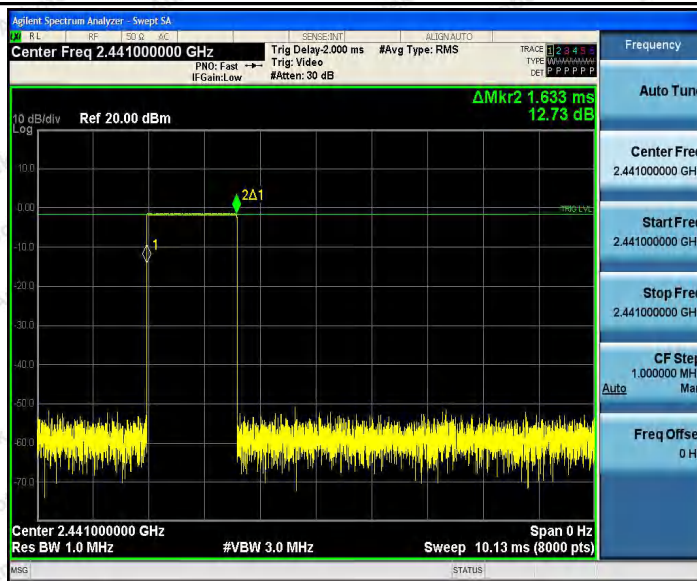
Appendix E: Time of occupancy

Test Result

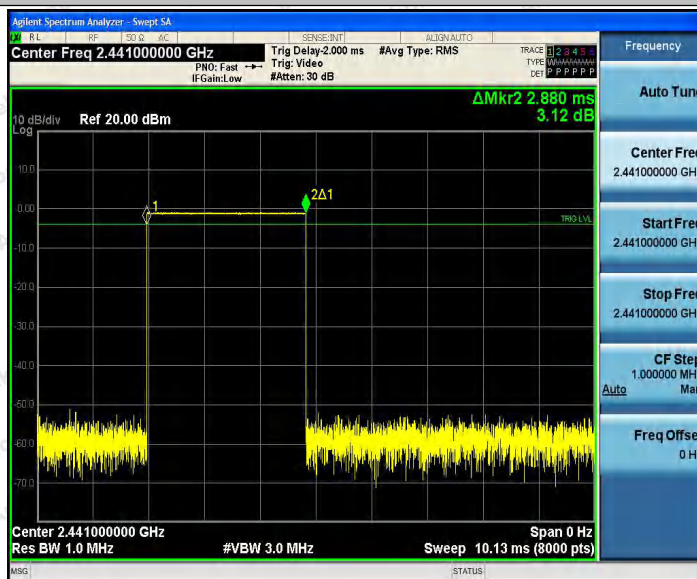
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	312	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.89	108	0.312	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop



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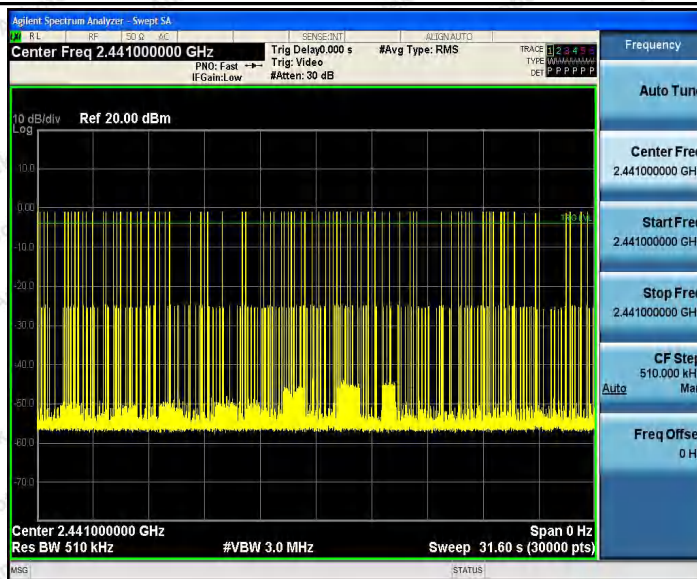
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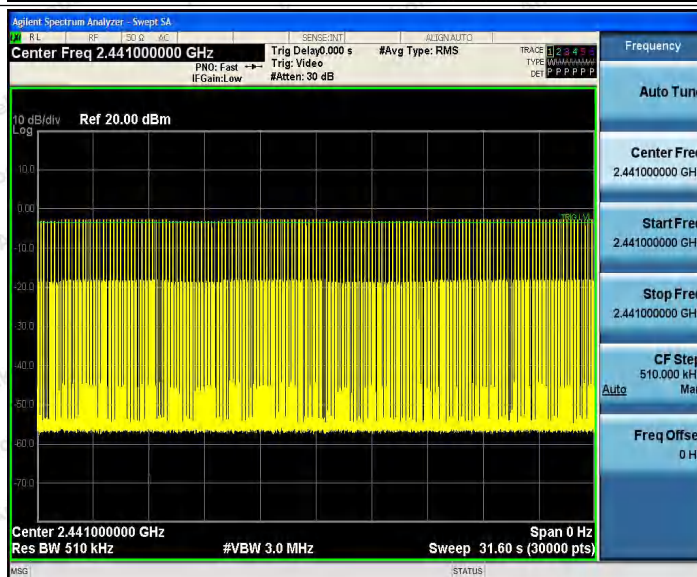
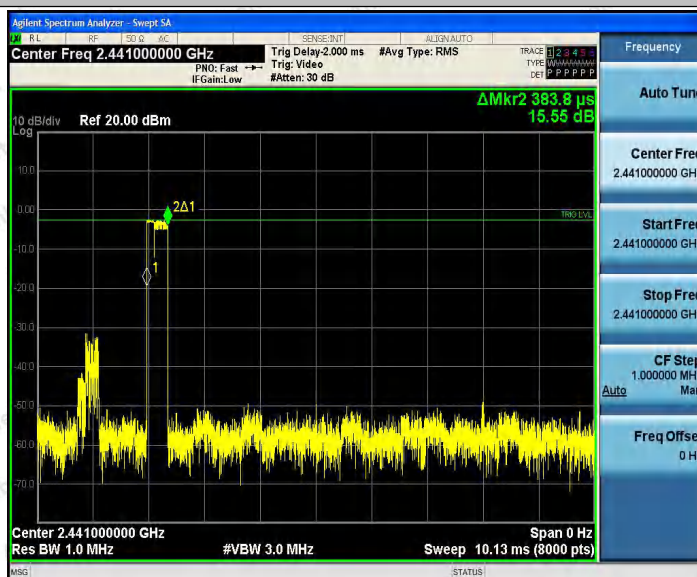
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2DH1_Ant1_Hop



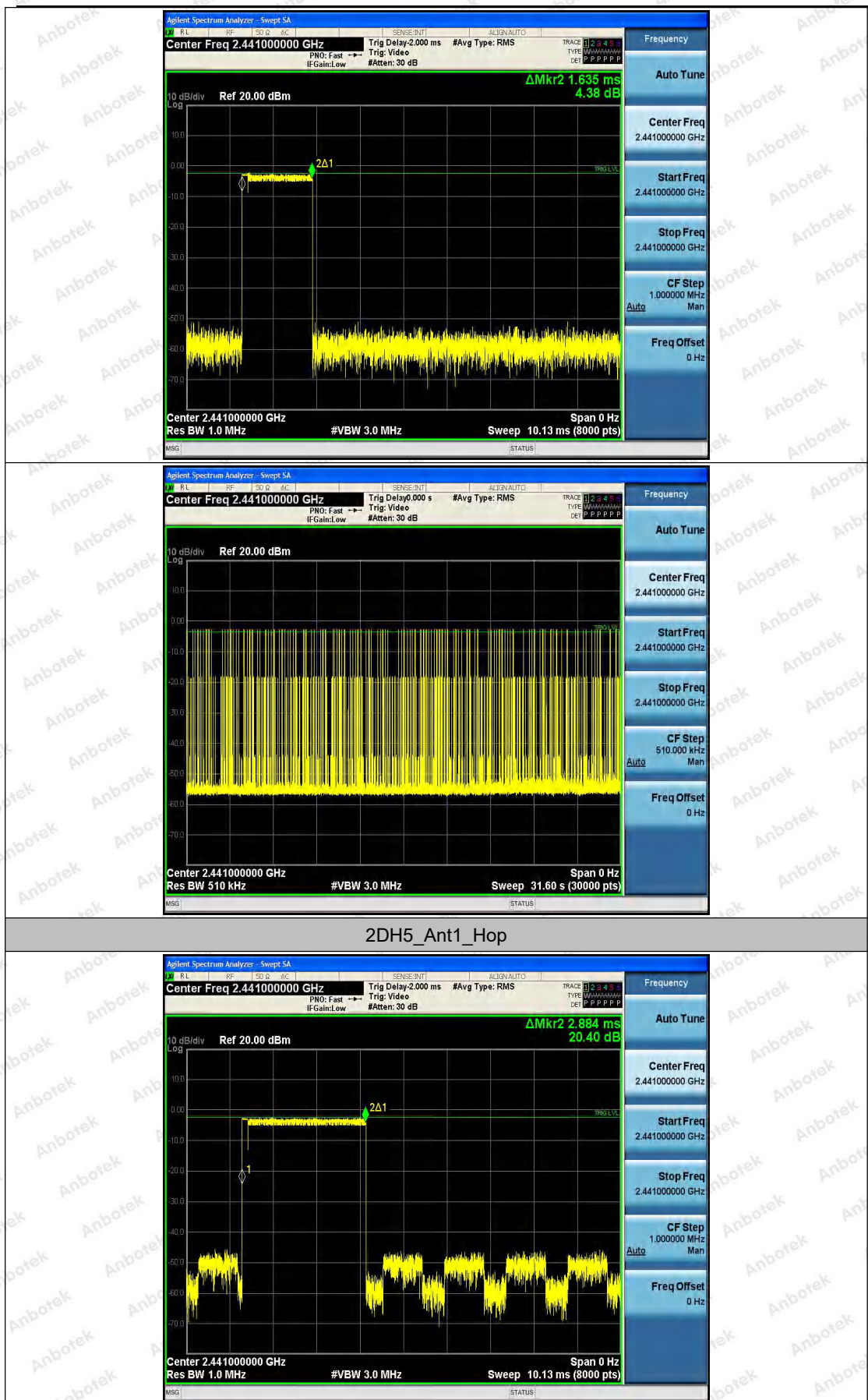
2DH3_Ant1_Hop

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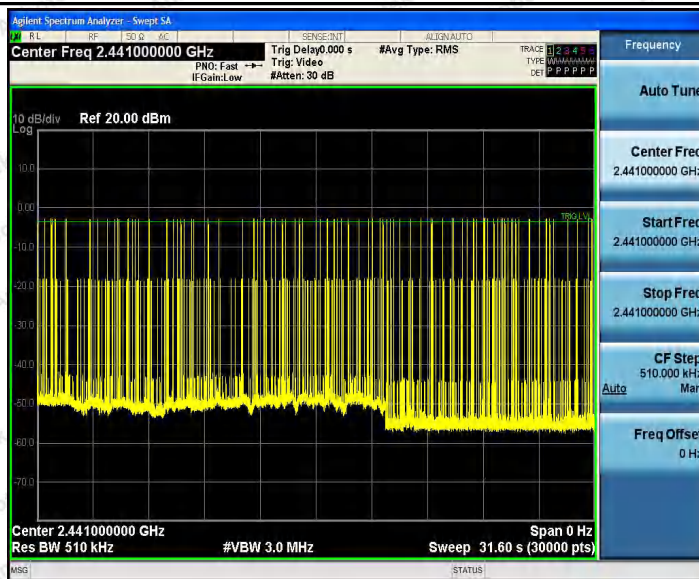


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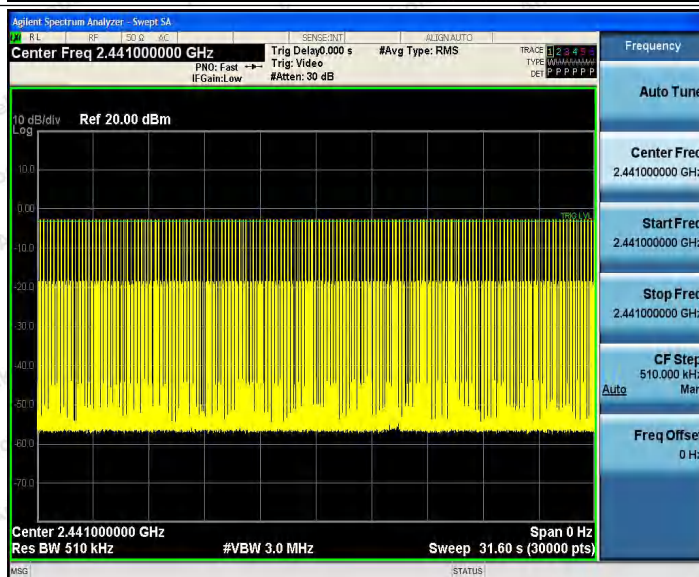
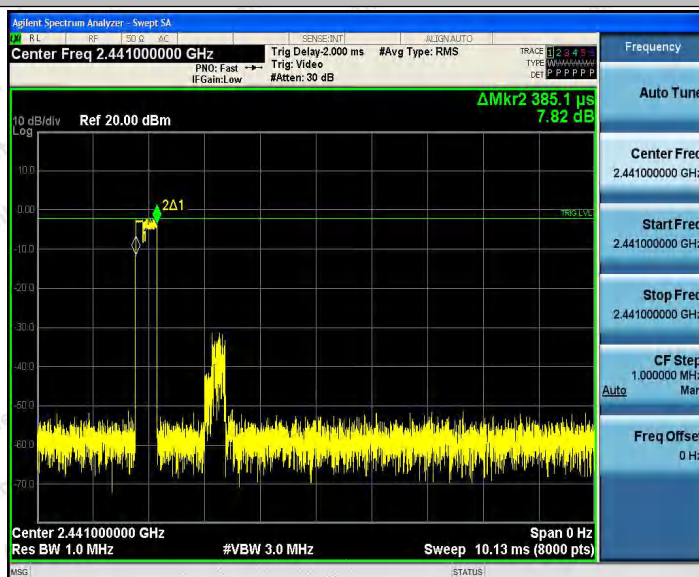
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3DH1_Ant1_Hop



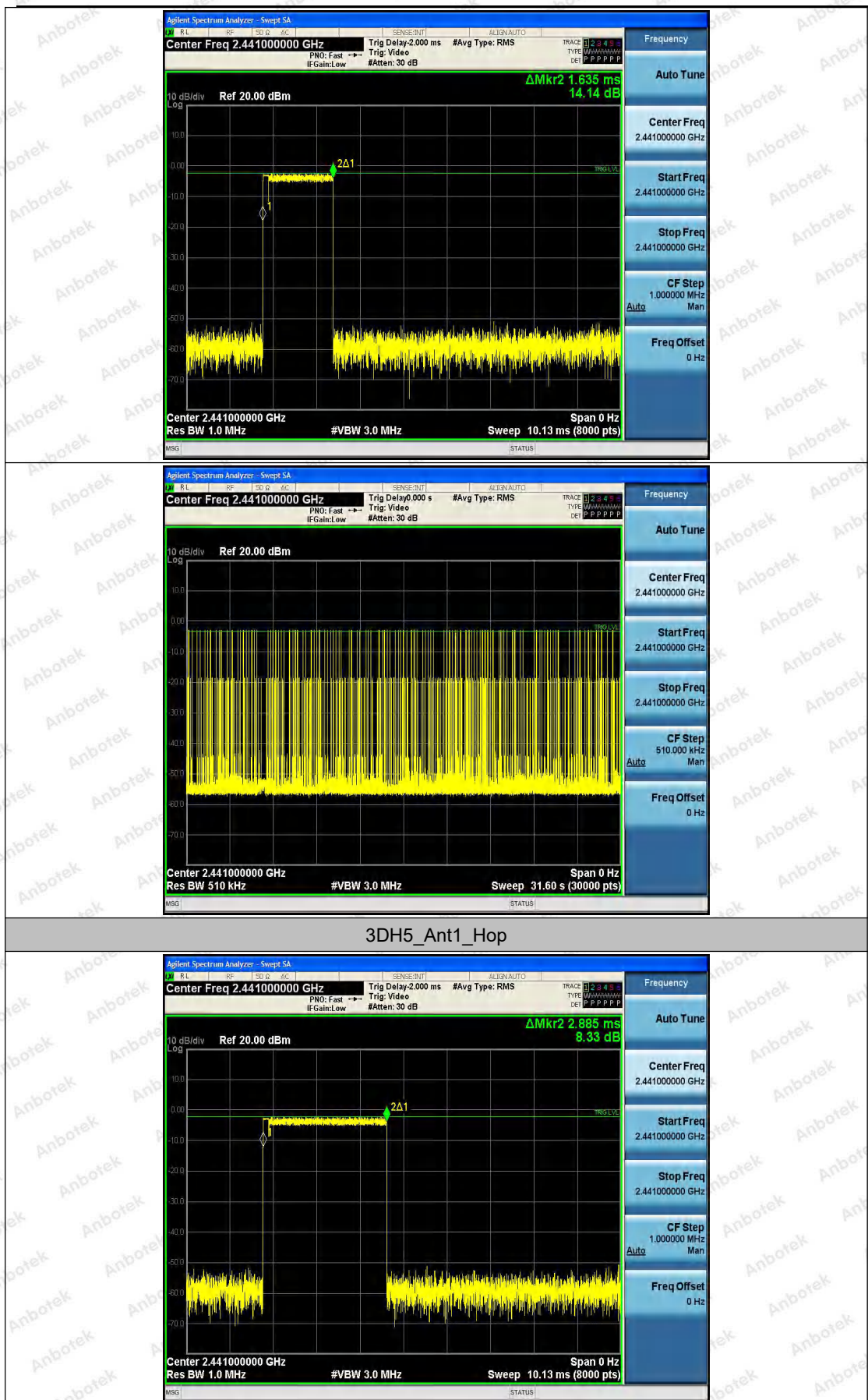
3DH3_Ant1_Hop

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3DH5_Ant1_Hop



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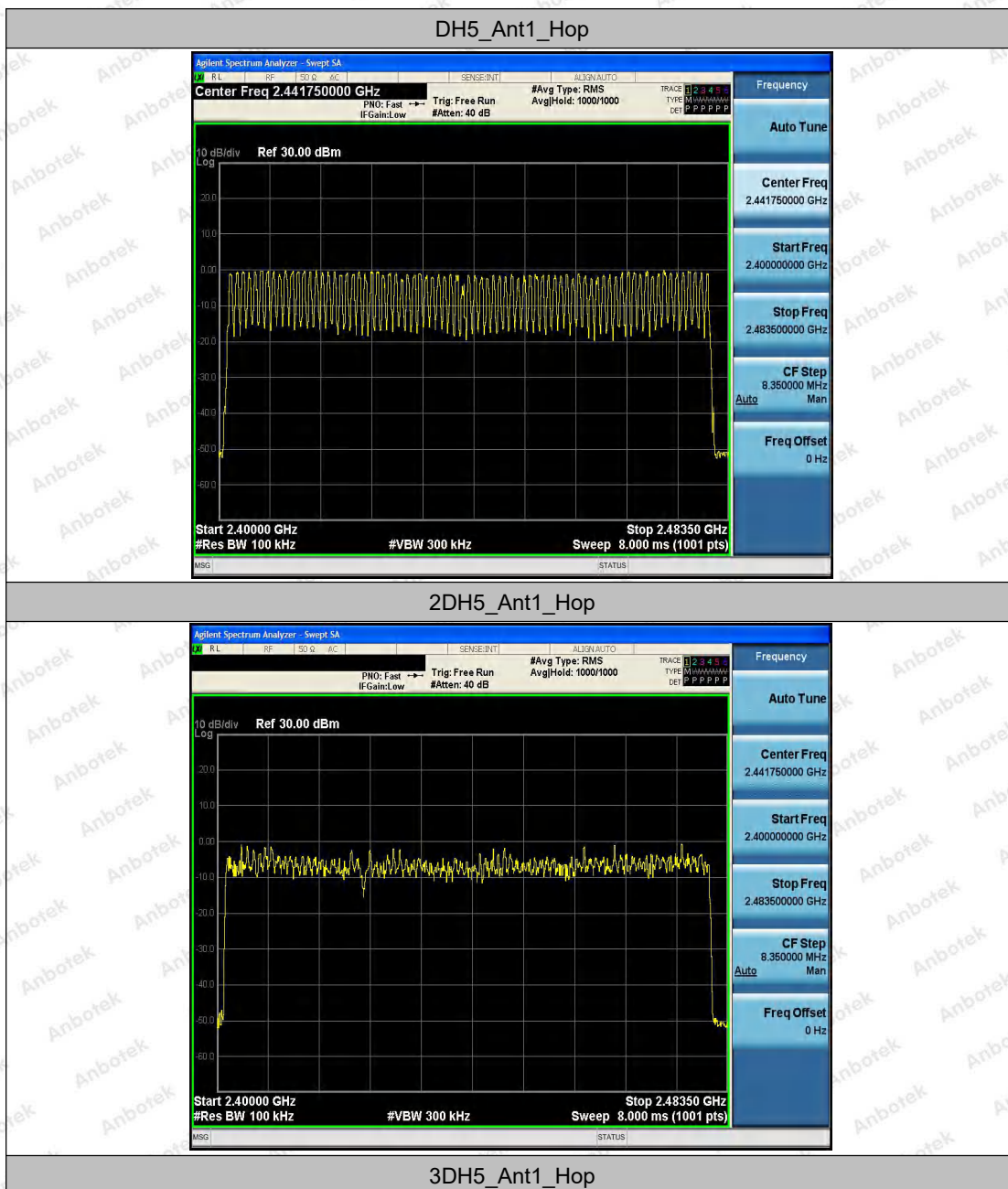
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Appendix F: Number of hopping channels

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

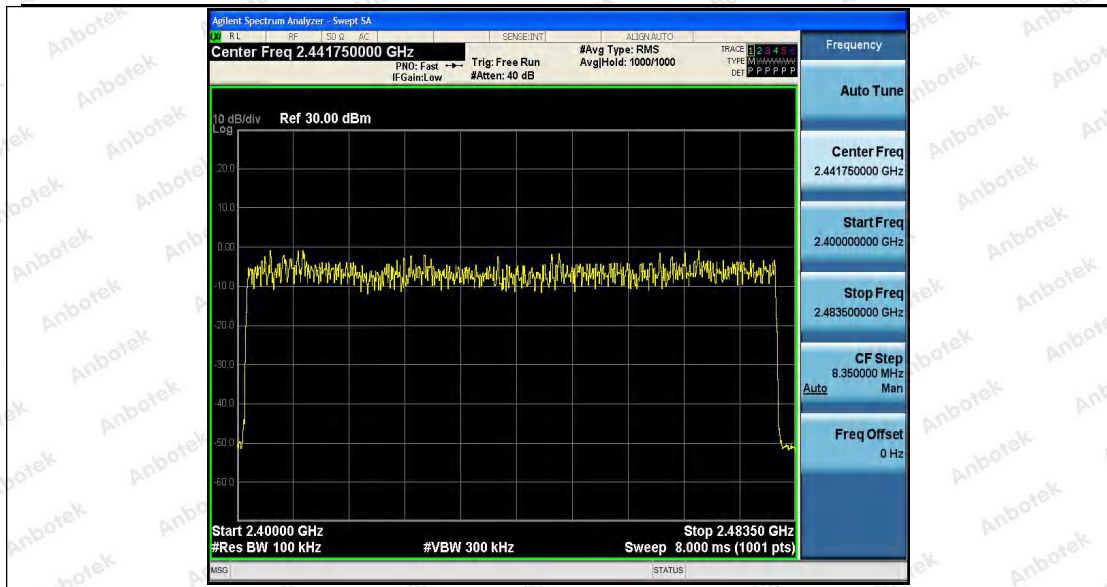


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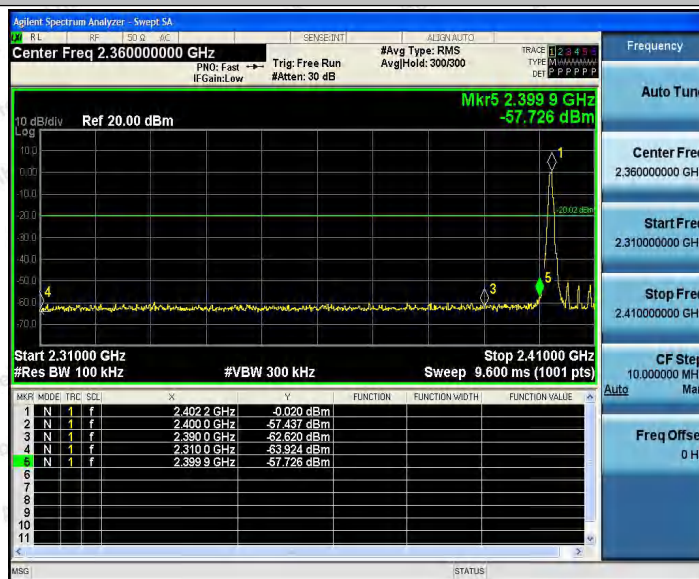
Appendix G: Band edge measurements

Test Result

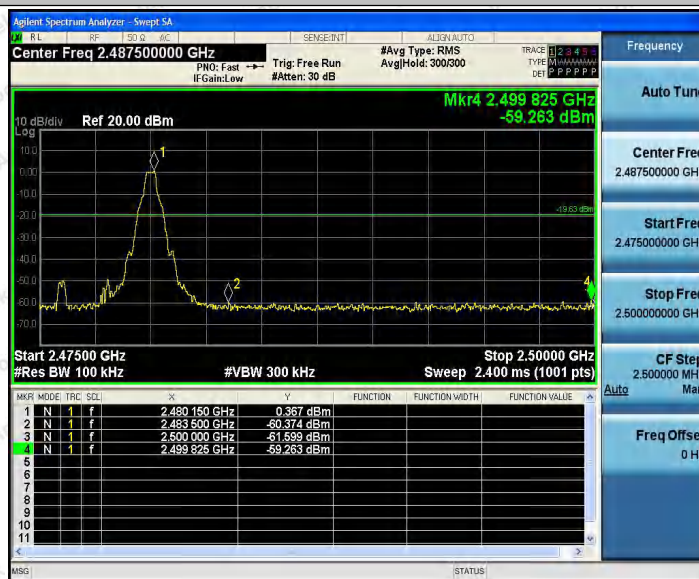
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.02	-57.73	≤-20.02	PASS
		High	2480	0.37	-59.26	≤-19.63	PASS
		Low	Hop	-0.45	-59.66	≤-20.45	PASS
		High	Hop	-0.02	-62.02	≤-20.02	PASS
2DH5	Ant1	Low	2402	-3.88	-57.78	≤-23.88	PASS
		High	2480	-1.68	-59.07	≤-21.68	PASS
		Low	Hop	-1.80	-59.99	≤-21.8	PASS
		High	Hop	-4.87	-63.13	≤-24.87	PASS
3DH5	Ant1	Low	2402	-1.46	-57.68	≤-21.46	PASS
		High	2480	-2.22	-59.57	≤-22.22	PASS
		Low	Hop	-3.80	-58.75	≤-23.8	PASS
		High	Hop	-2.52	-62.46	≤-22.52	PASS

Test Graphs

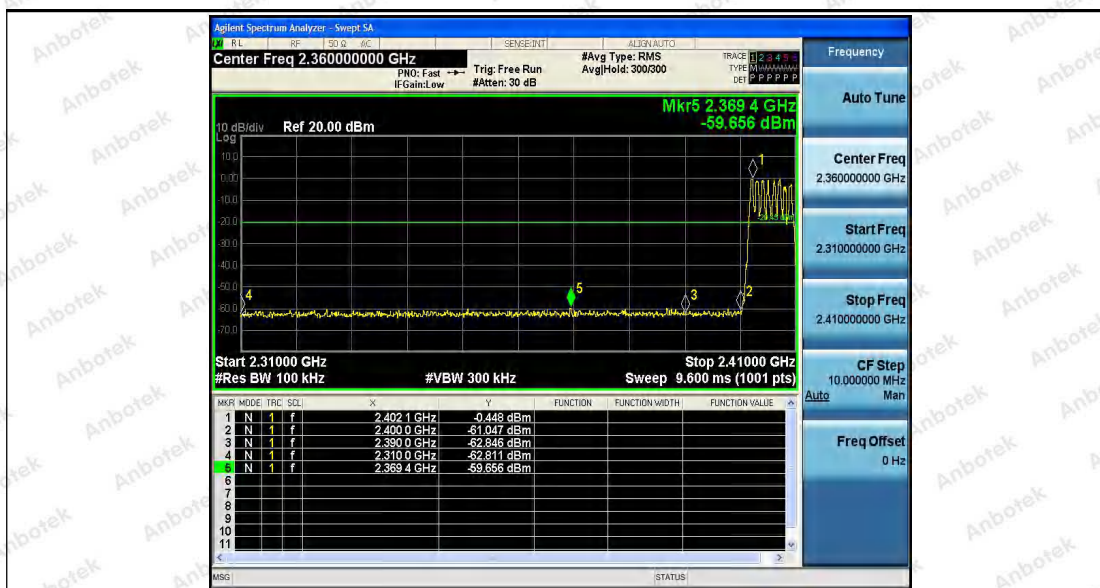
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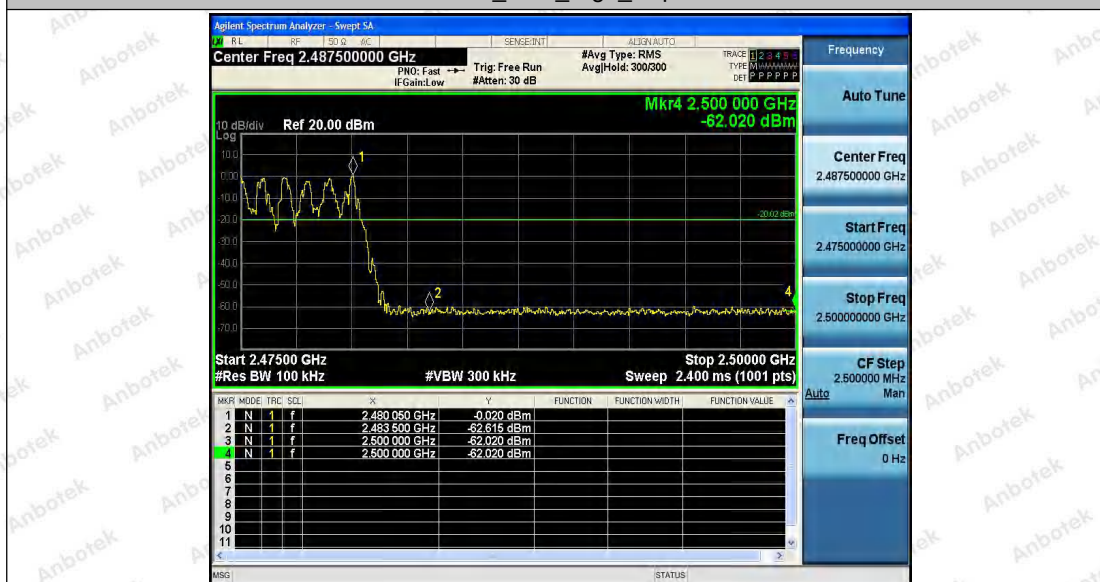
DH5_Ant1_High_2480



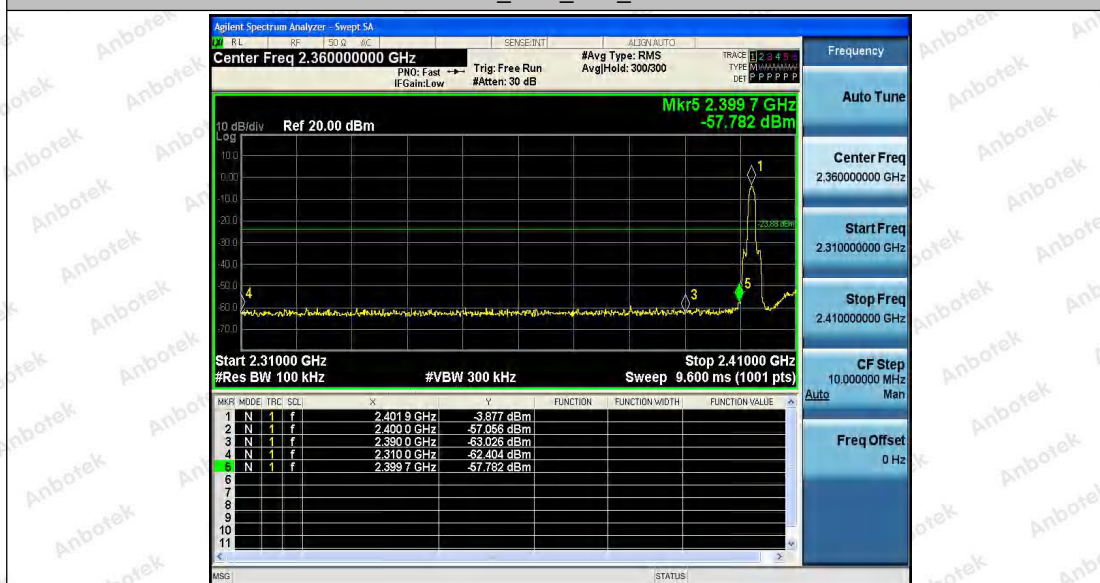
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



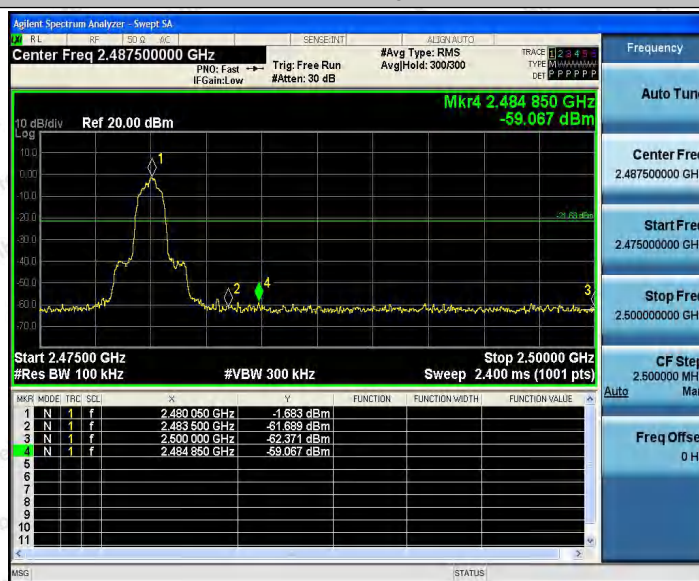
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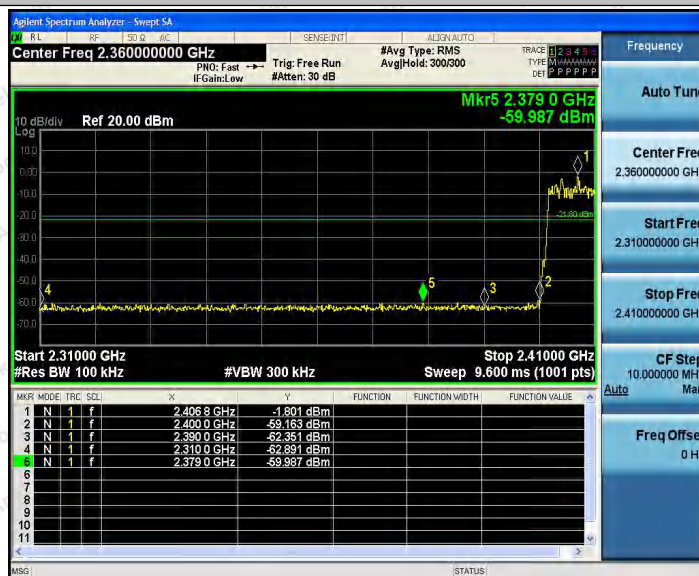
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



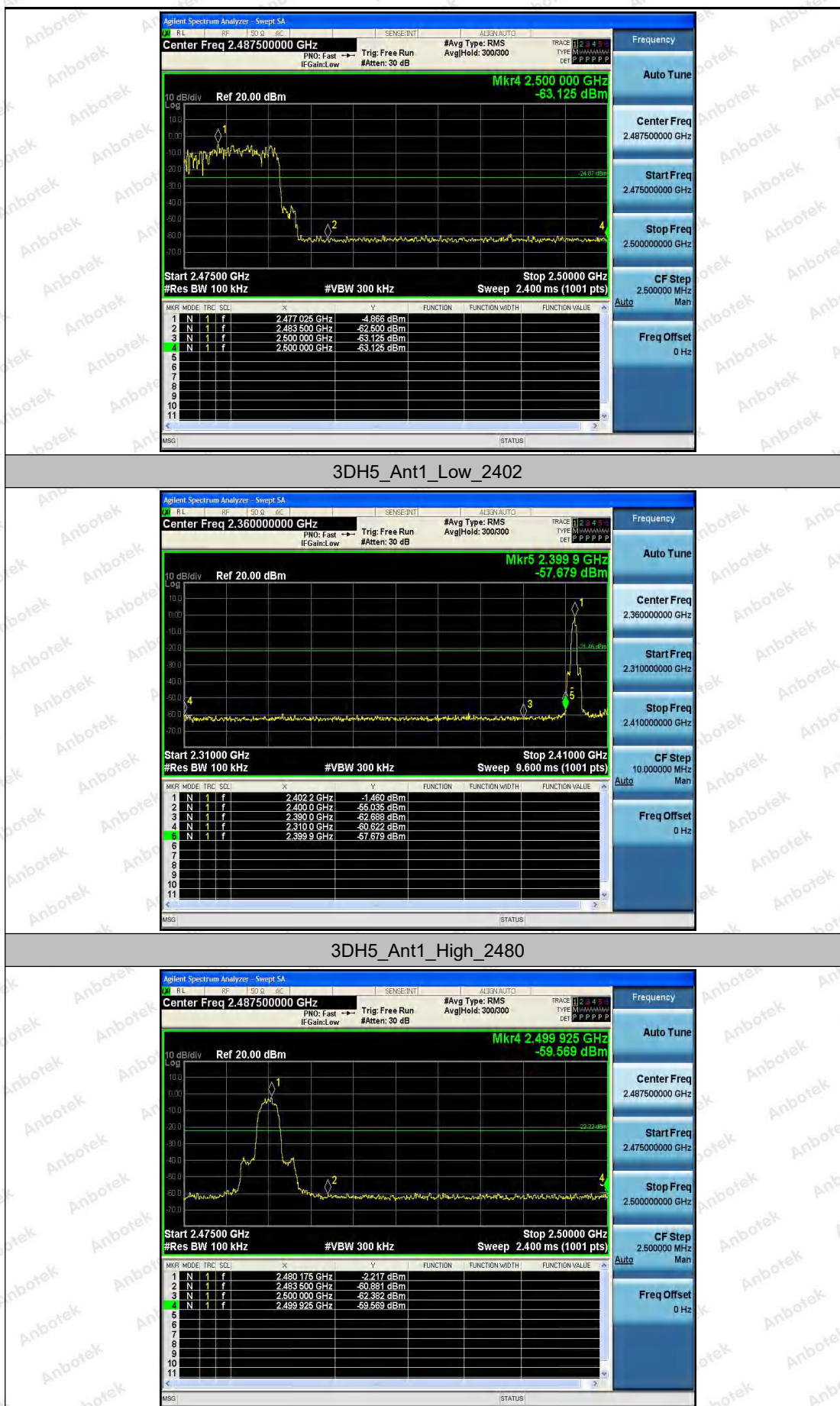
2DH5_Ant1_High_Hop

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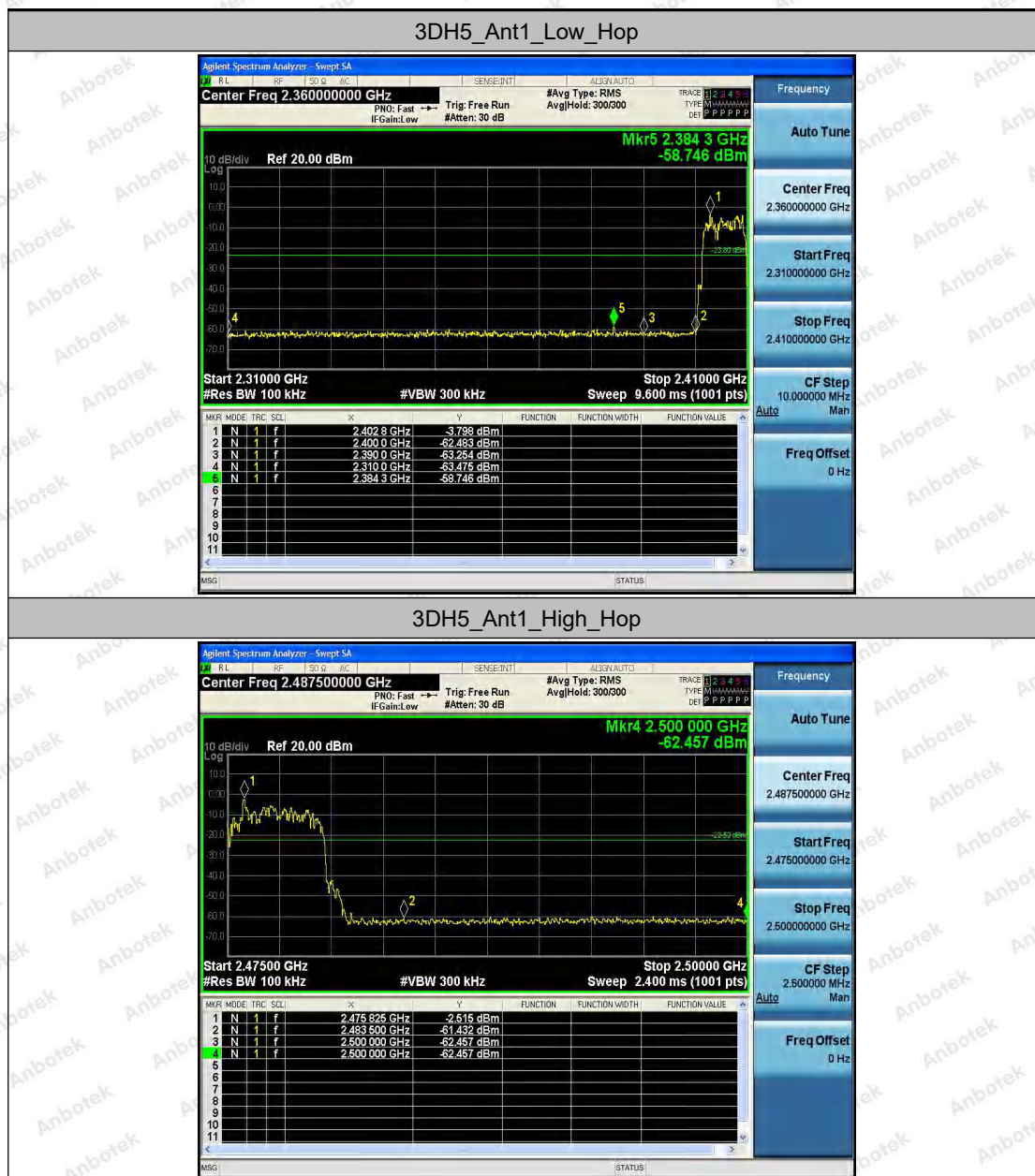


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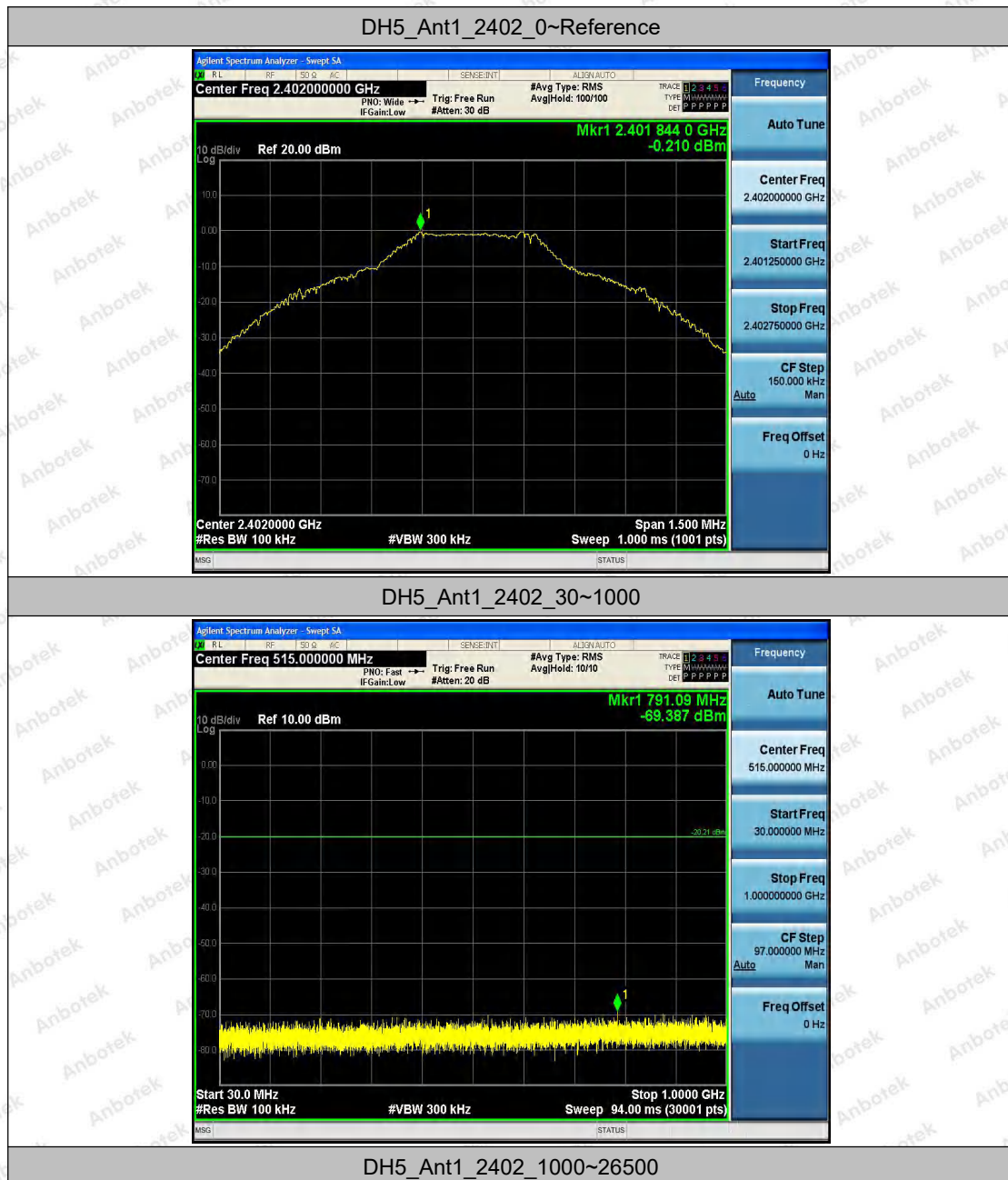
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-69.39	≤-20.21	PASS
			1000~26500	-0.21	-42.26	≤-20.21	PASS
		2441	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-69.56	≤-21.92	PASS
			1000~26500	-1.92	-45.2	≤-21.92	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-69.86	≤-19.66	PASS
			1000~26500	0.34	-50.45	≤-19.66	PASS
2DH5	Ant1	2402	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-70.8	≤-22.31	PASS
			1000~26500	-2.31	-48	≤-22.31	PASS
		2441	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-64.34	≤-23.21	PASS
			1000~26500	-3.21	-49.37	≤-23.21	PASS
		2480	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-70.56	≤-22.44	PASS
			1000~26500	-2.44	-52.44	≤-22.44	PASS
3DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-70.38	≤-21.91	PASS
			1000~26500	-1.91	-48.37	≤-21.91	PASS
		2441	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-65.11	≤-23.41	PASS
			1000~26500	-3.41	-47.64	≤-23.41	PASS
		2480	Reference	-2.85	-2.85	---	PASS
			30~1000	-2.85	-70.58	≤-22.85	PASS
			1000~26500	-2.85	-54.23	≤-22.85	PASS

Test Graphs



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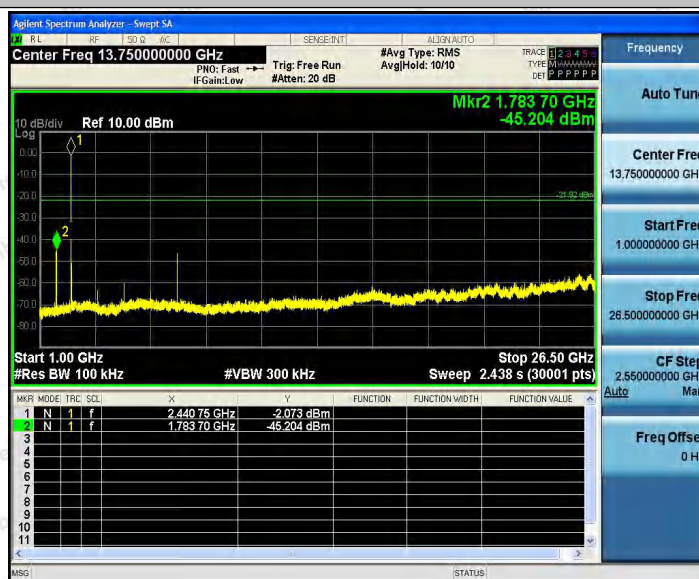
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



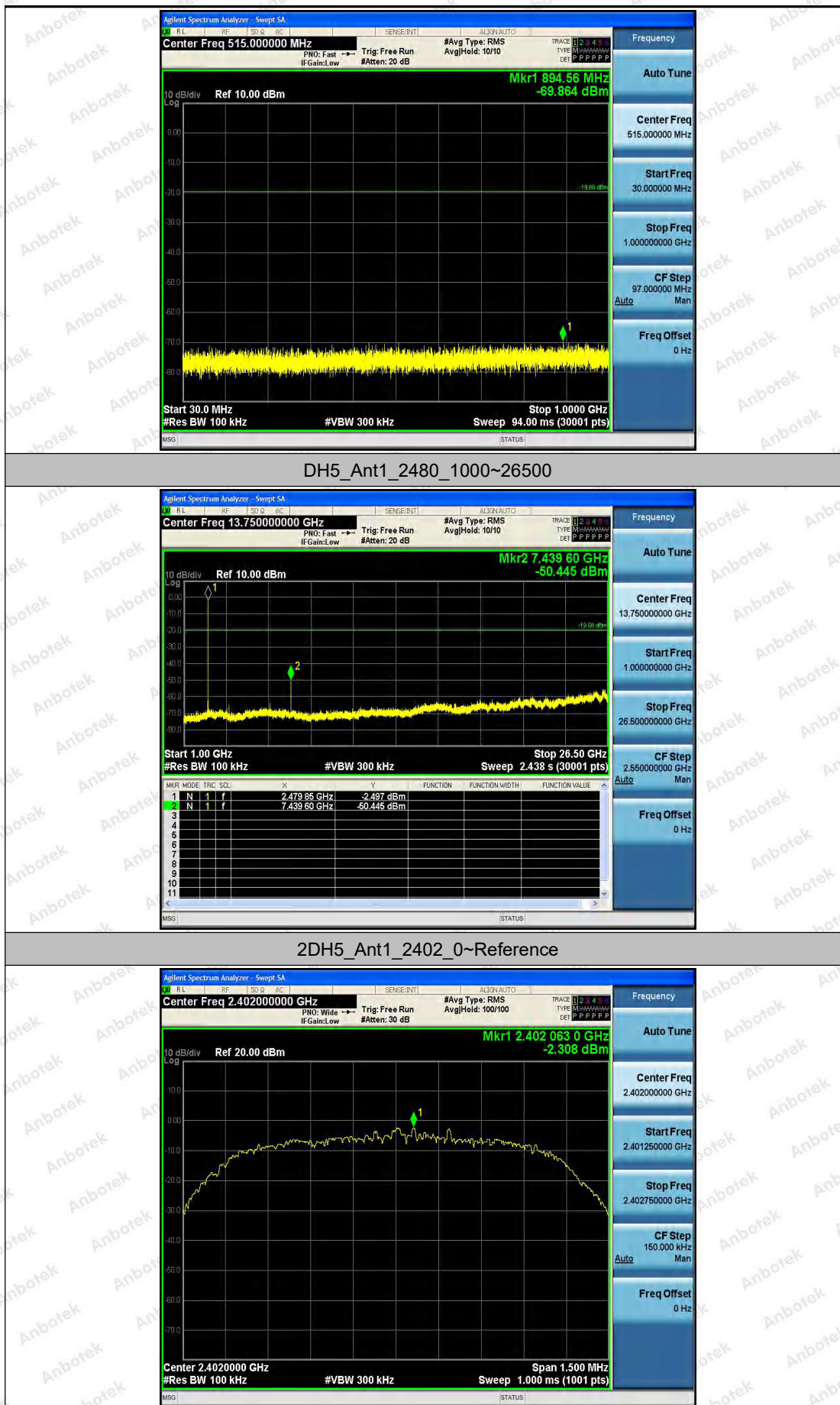
DH5_Ant1_2480_30~1000

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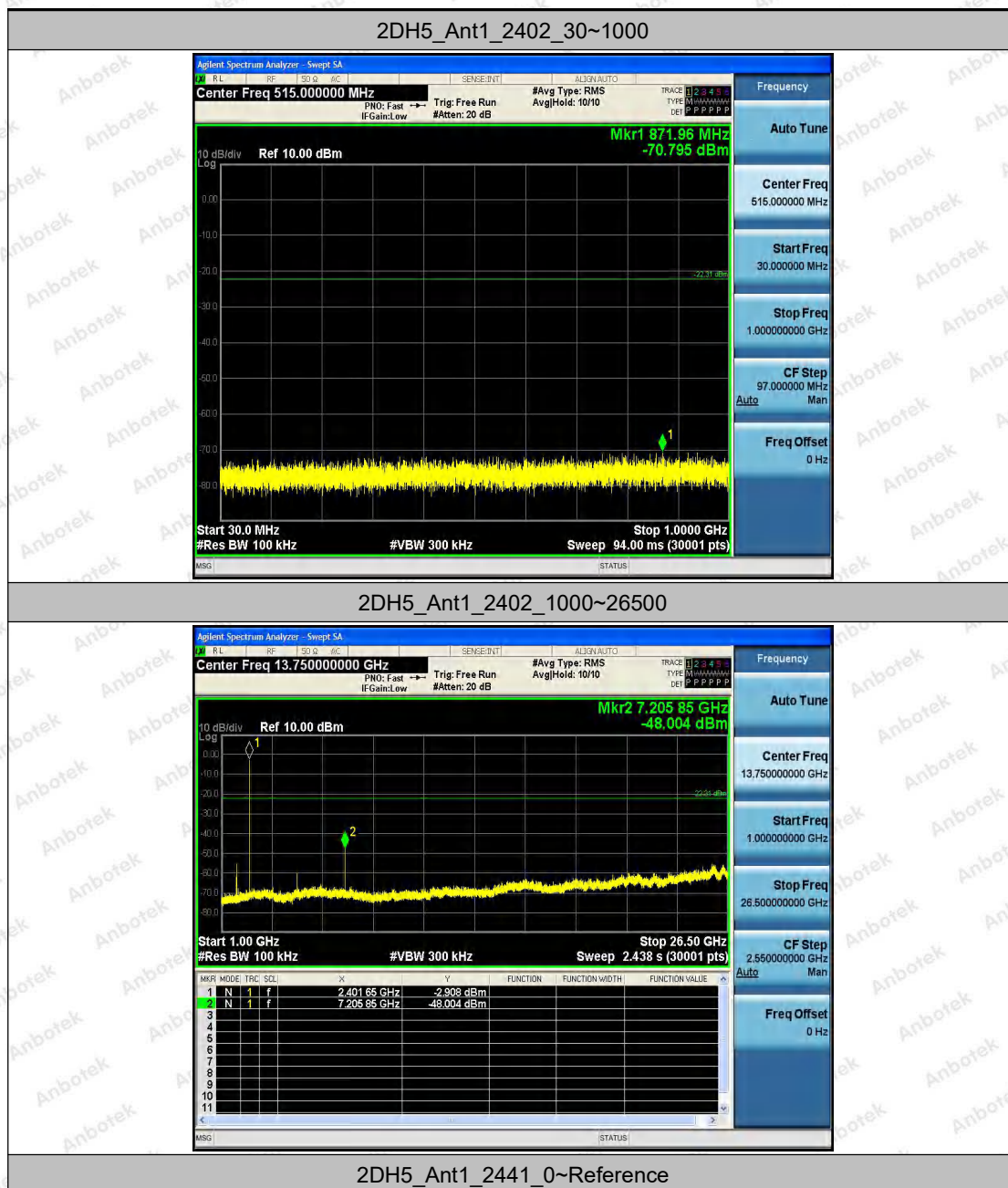


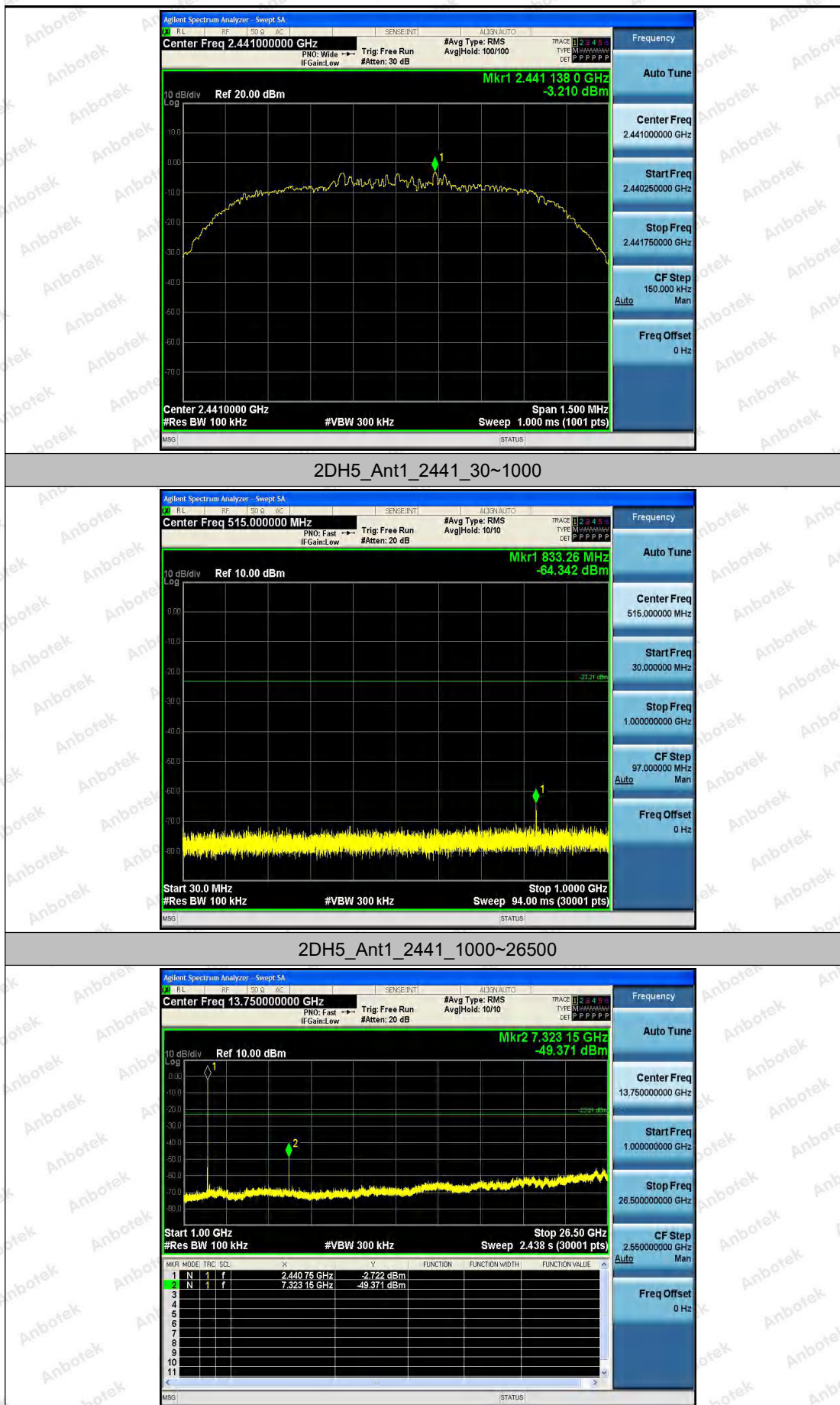
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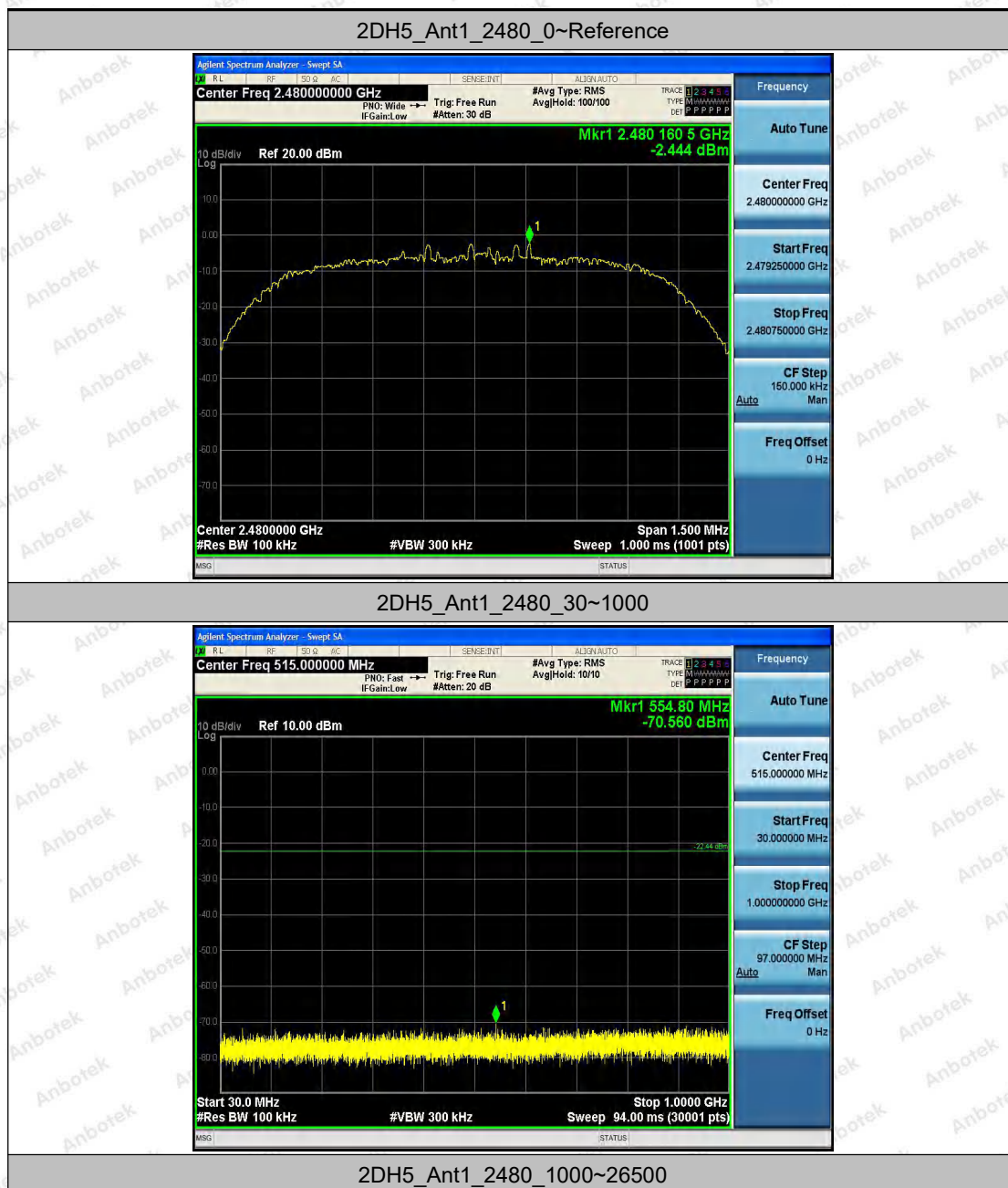


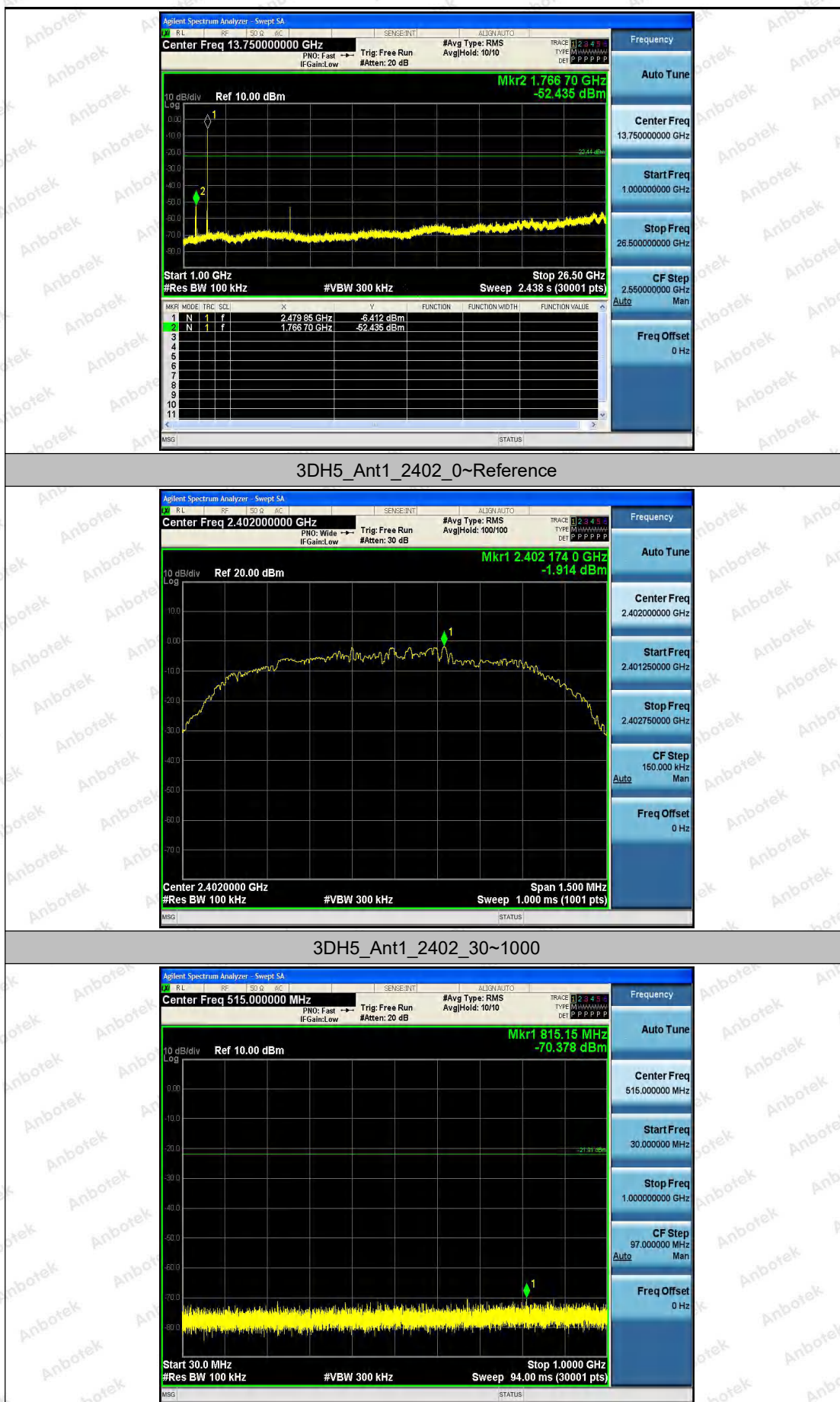
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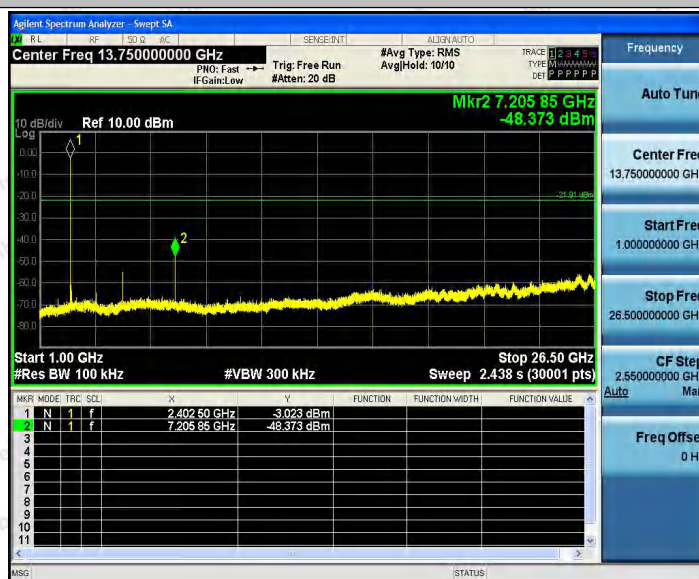
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



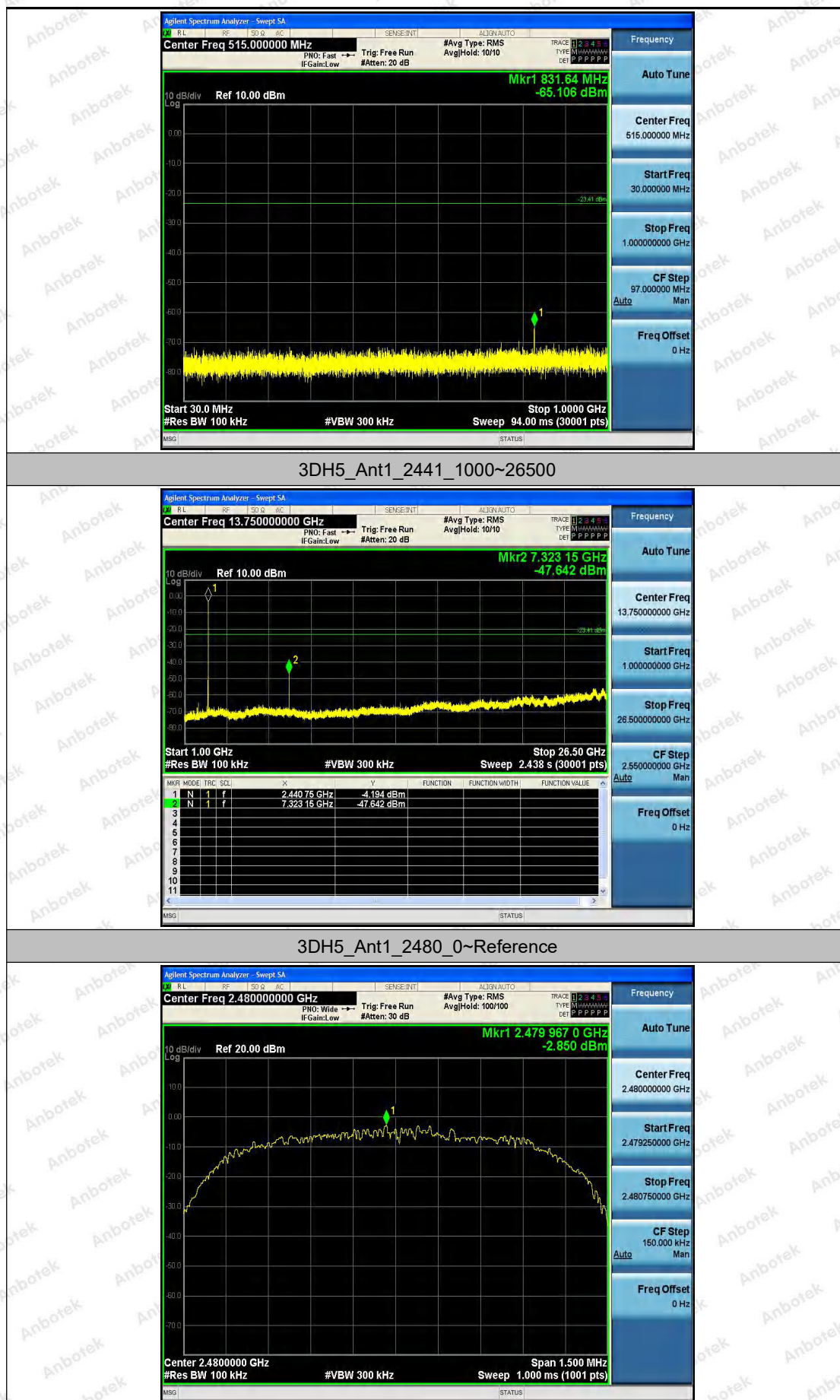
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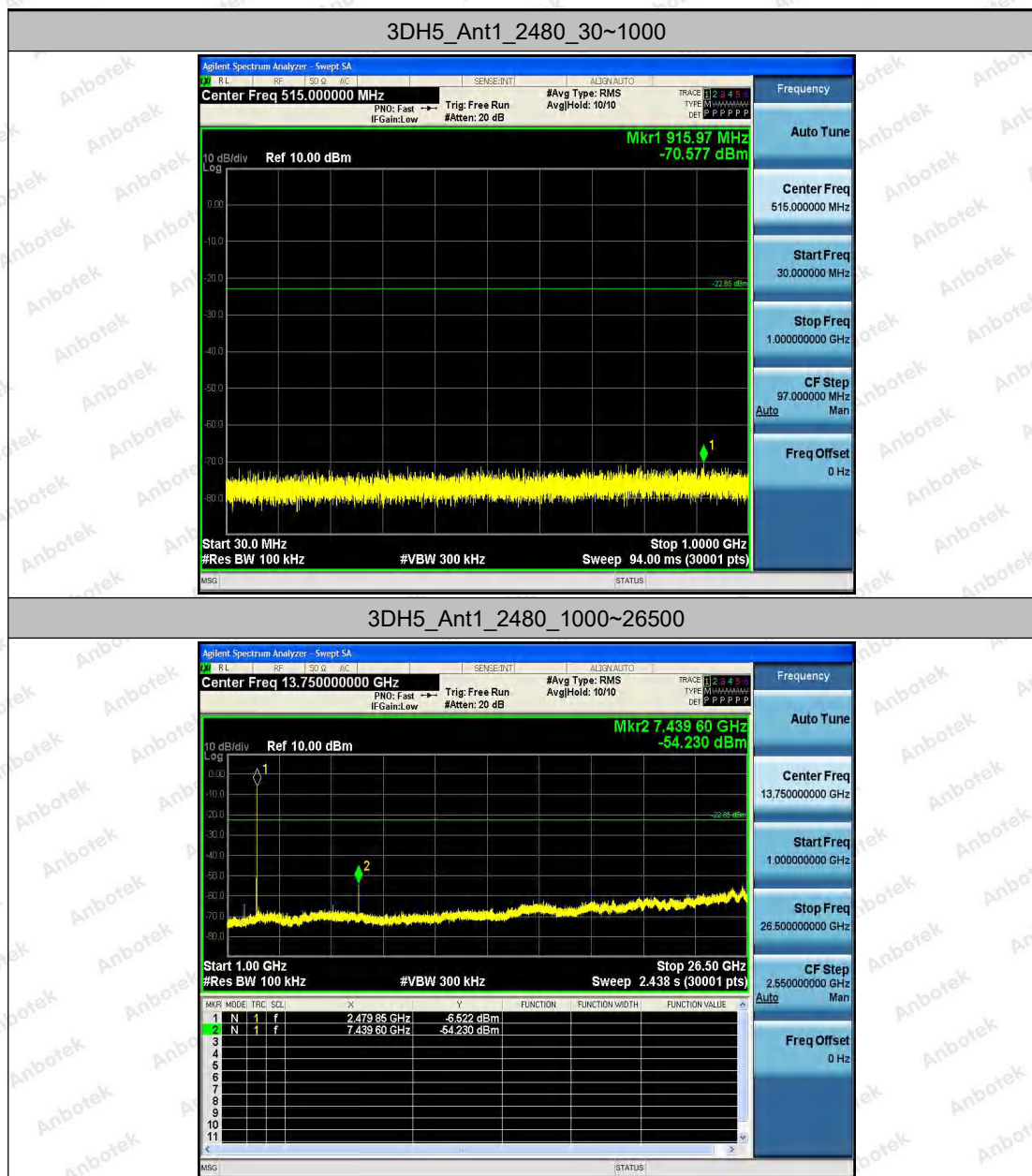


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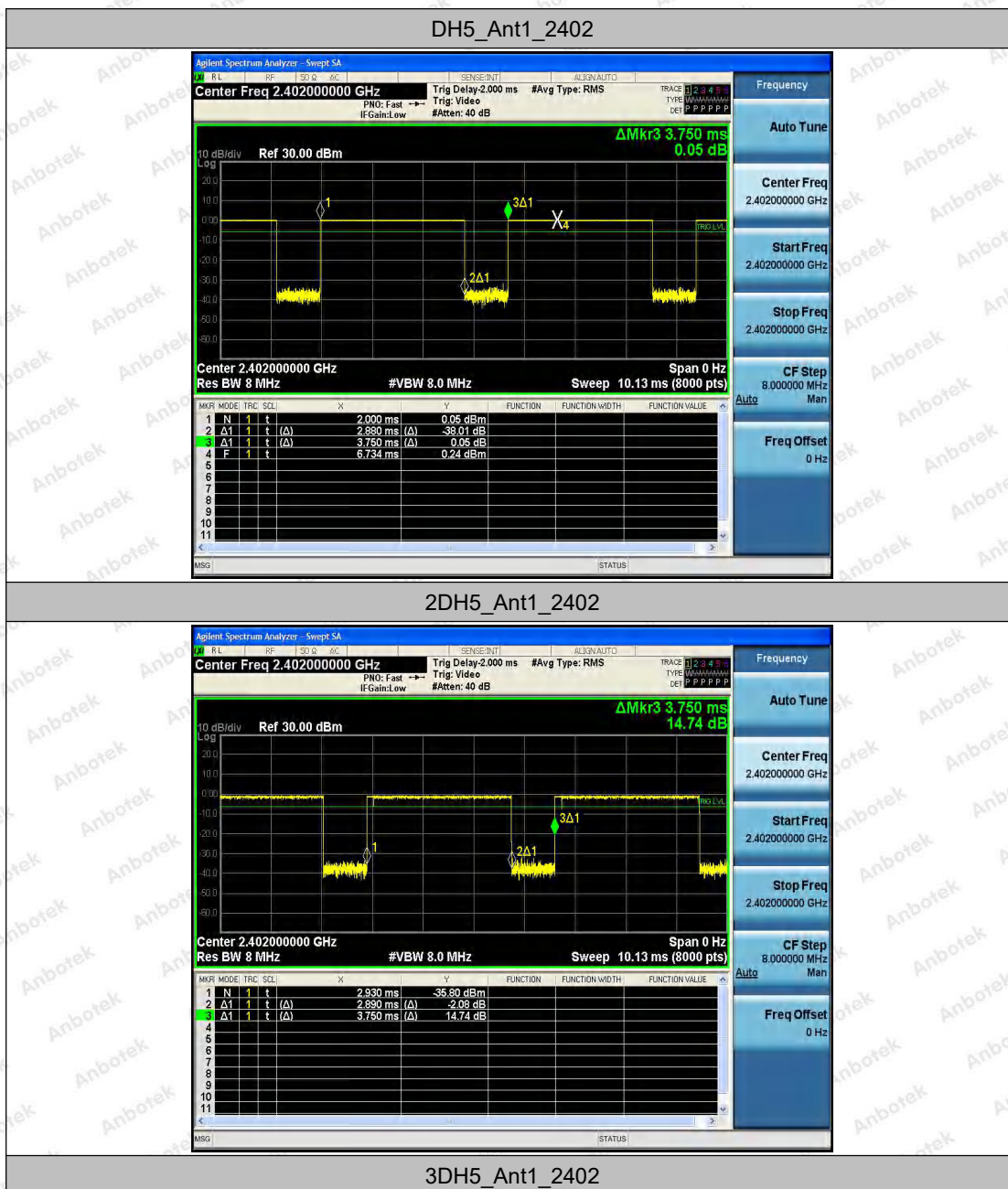
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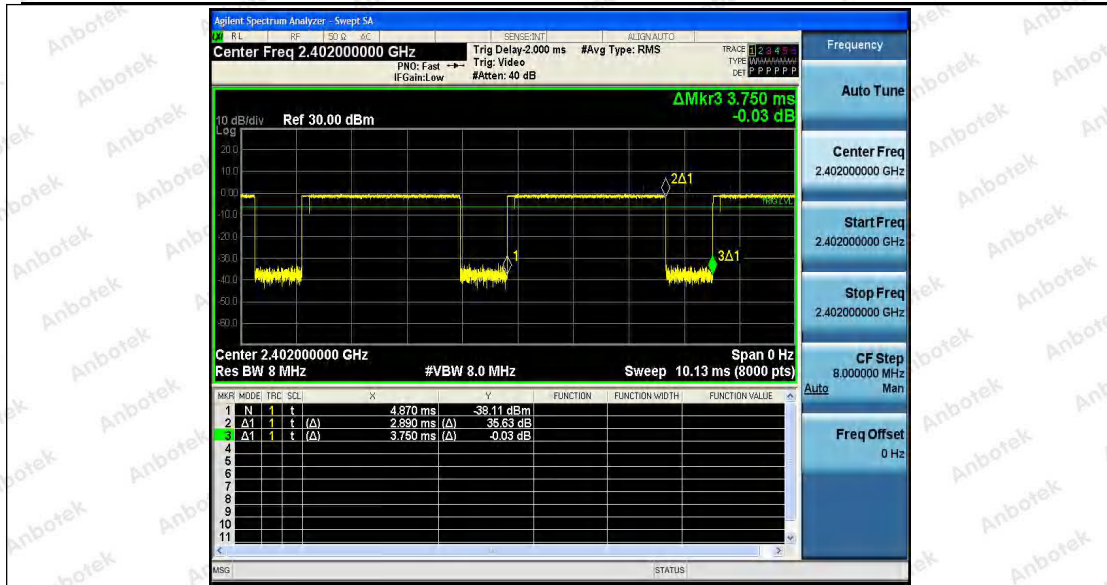
Appendix I: Duty Cycle

Test Result

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

Test Graphs





---End---