

Appendix Test Data

Report No.:	18220WC10272301	Test Sample No.:	1-2-2
Start Test Date:	2021.12.10	Finish Test Date:	2021.12.14
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.538	2402.480	---	PASS
		2441	0.945	2440.532	2441.477	---	PASS
		2480	0.951	2479.529	2480.480	---	PASS
2DH5	Ant1	2402	1.257	2401.364	2402.621	---	PASS
		2441	1.314	2440.334	2441.648	---	PASS
		2480	1.254	2479.367	2480.621	---	PASS
3DH5	Ant1	2402	1.296	2401.343	2402.639	---	PASS
		2441	1.269	2440.349	2441.618	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS

Test Graphs

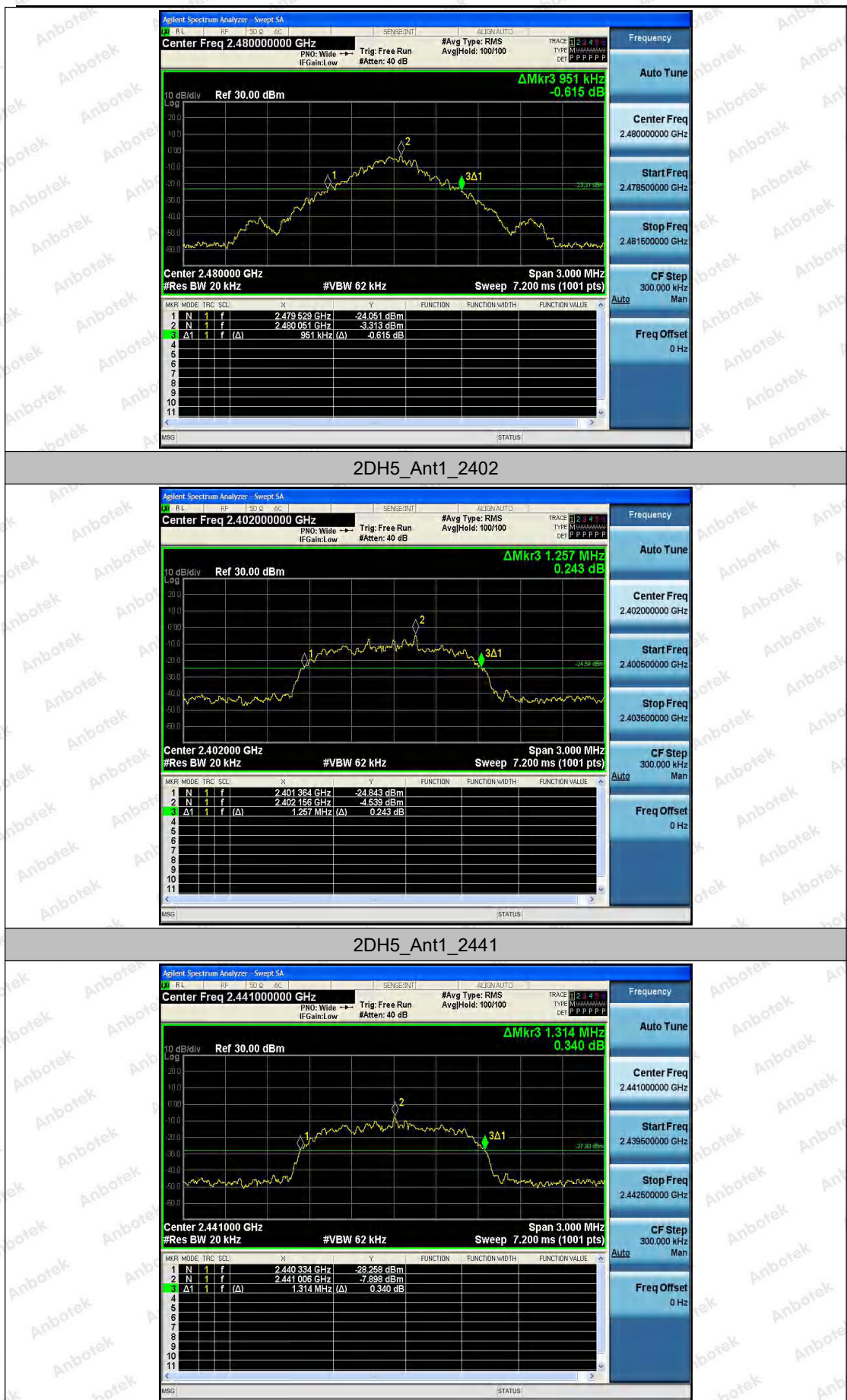


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88175	2401.554	2402.436	---	PASS
		2441	0.90201	2440.544	2441.446	---	PASS
		2480	0.88973	2479.552	2480.442	---	PASS
2DH5	Ant1	2402	1.1974	2401.396	2402.593	---	PASS
		2441	1.1871	2440.400	2441.587	---	PASS
		2480	1.1856	2479.400	2480.586	---	PASS
3DH5	Ant1	2402	1.2134	2401.379	2402.593	---	PASS
		2441	1.2061	2440.383	2441.589	---	PASS
		2480	1.1842	2479.401	2480.585	---	PASS

Test Graphs



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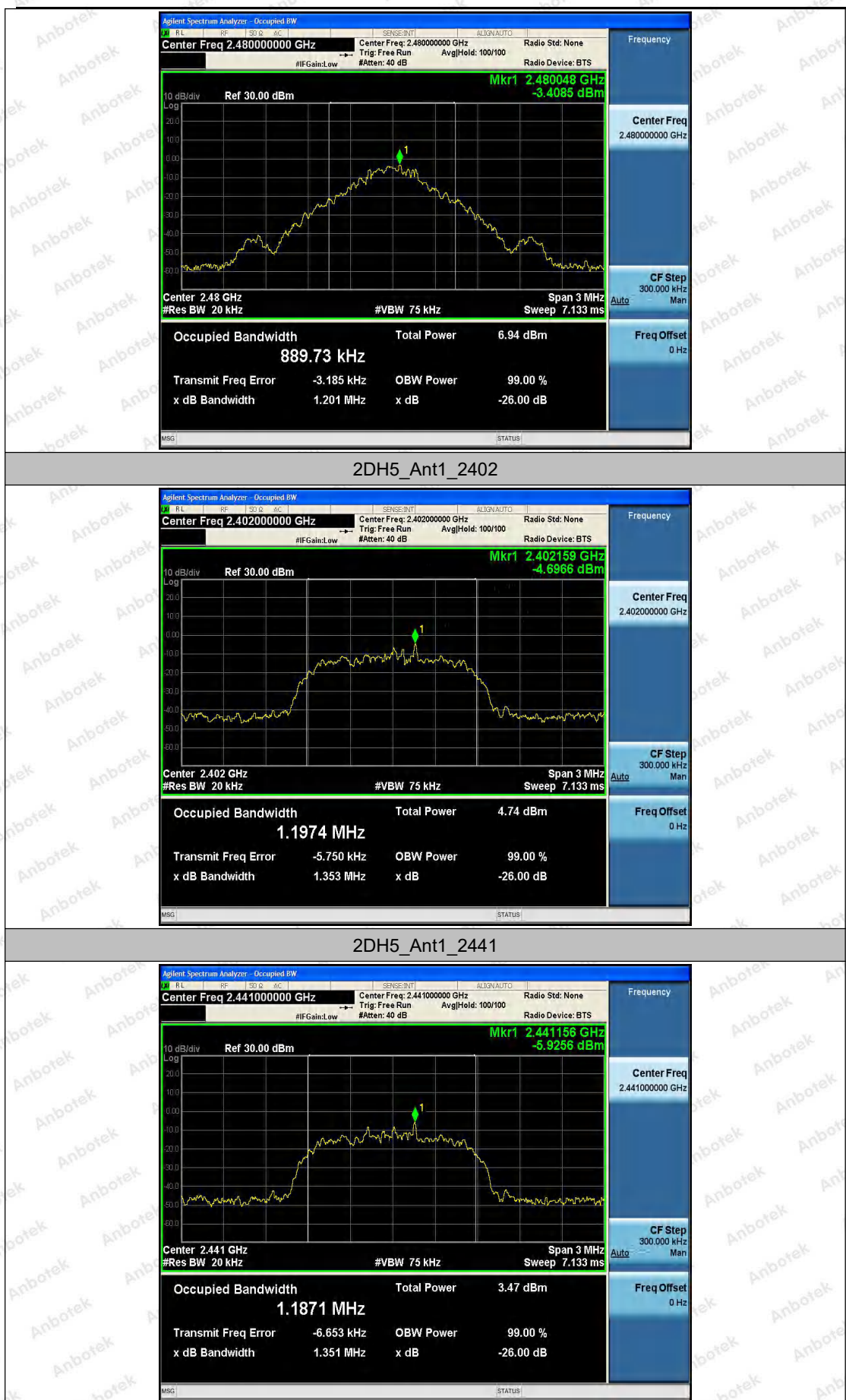
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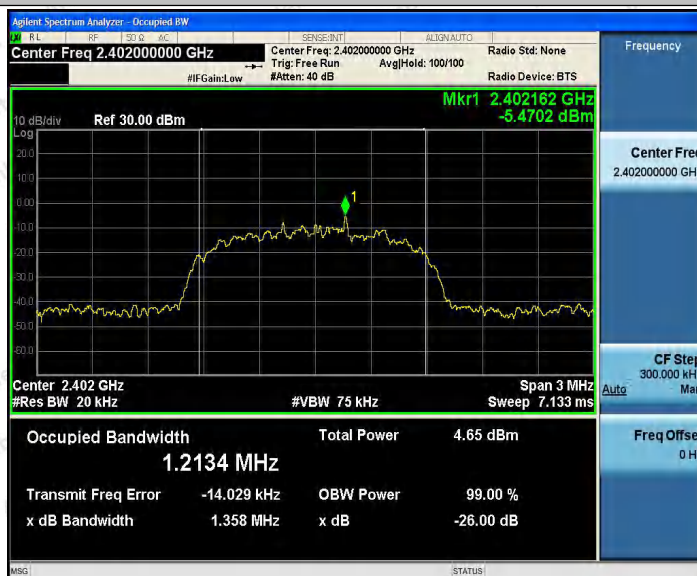
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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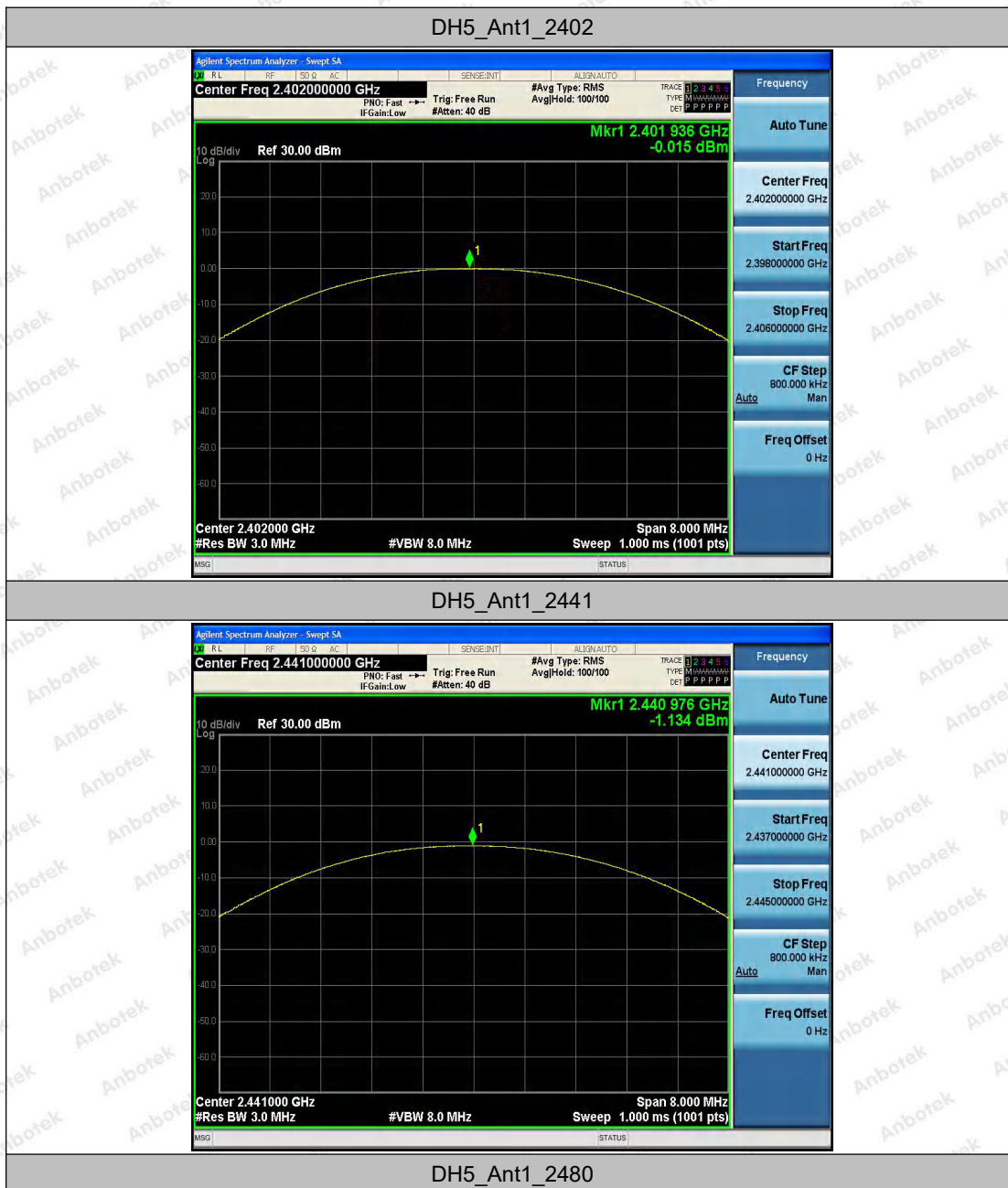
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.02	≤20.97	PASS
		2441	-1.13	≤20.97	PASS
		2480	0.3	≤20.97	PASS
2DH5	Ant1	2402	-0.56	≤20.97	PASS
		2441	-1.81	≤20.97	PASS
		2480	-0.53	≤20.97	PASS
3DH5	Ant1	2402	-0.37	≤20.97	PASS
		2441	-1.58	≤20.97	PASS
		2480	-0.33	≤20.97	PASS

Test Graphs

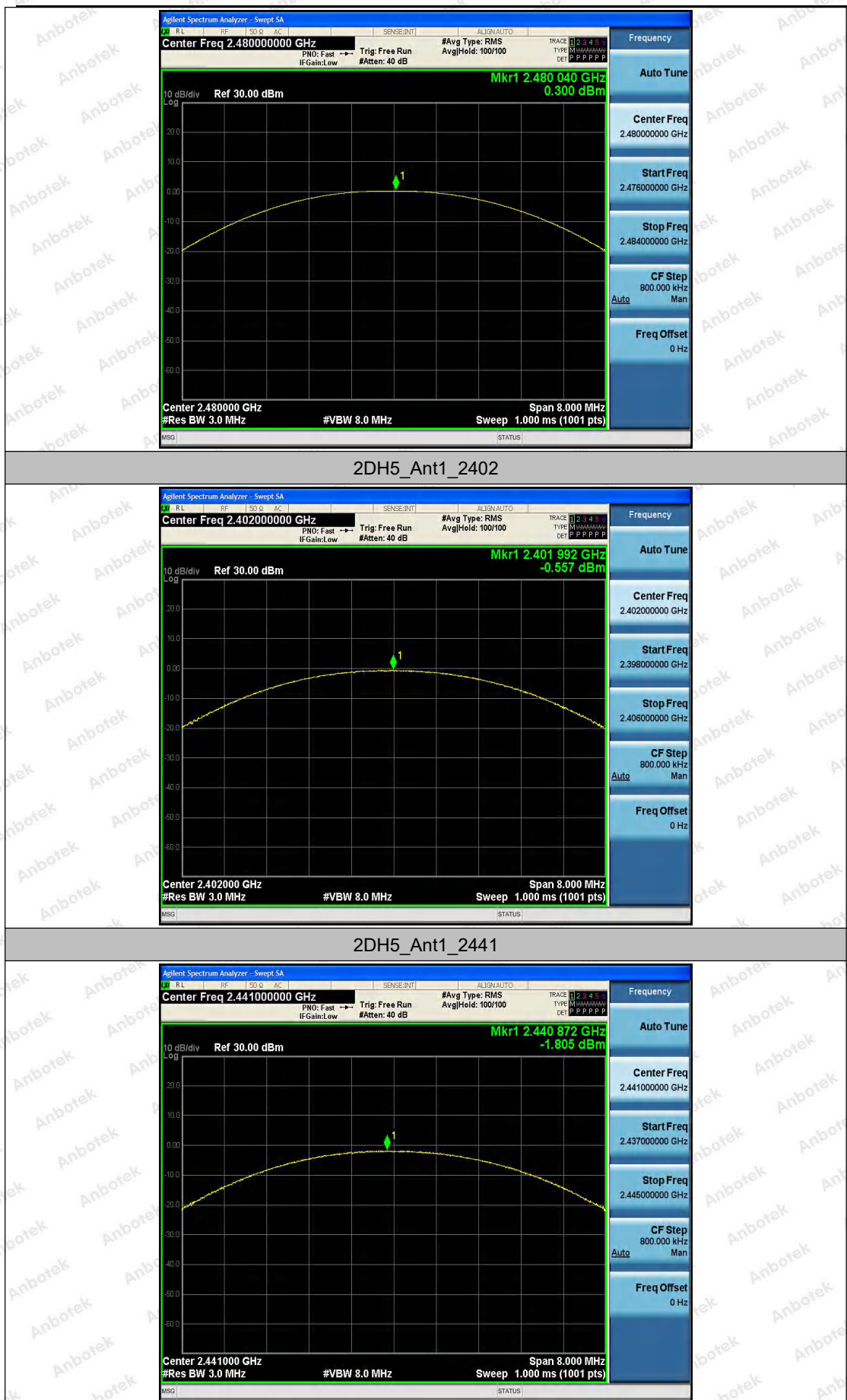


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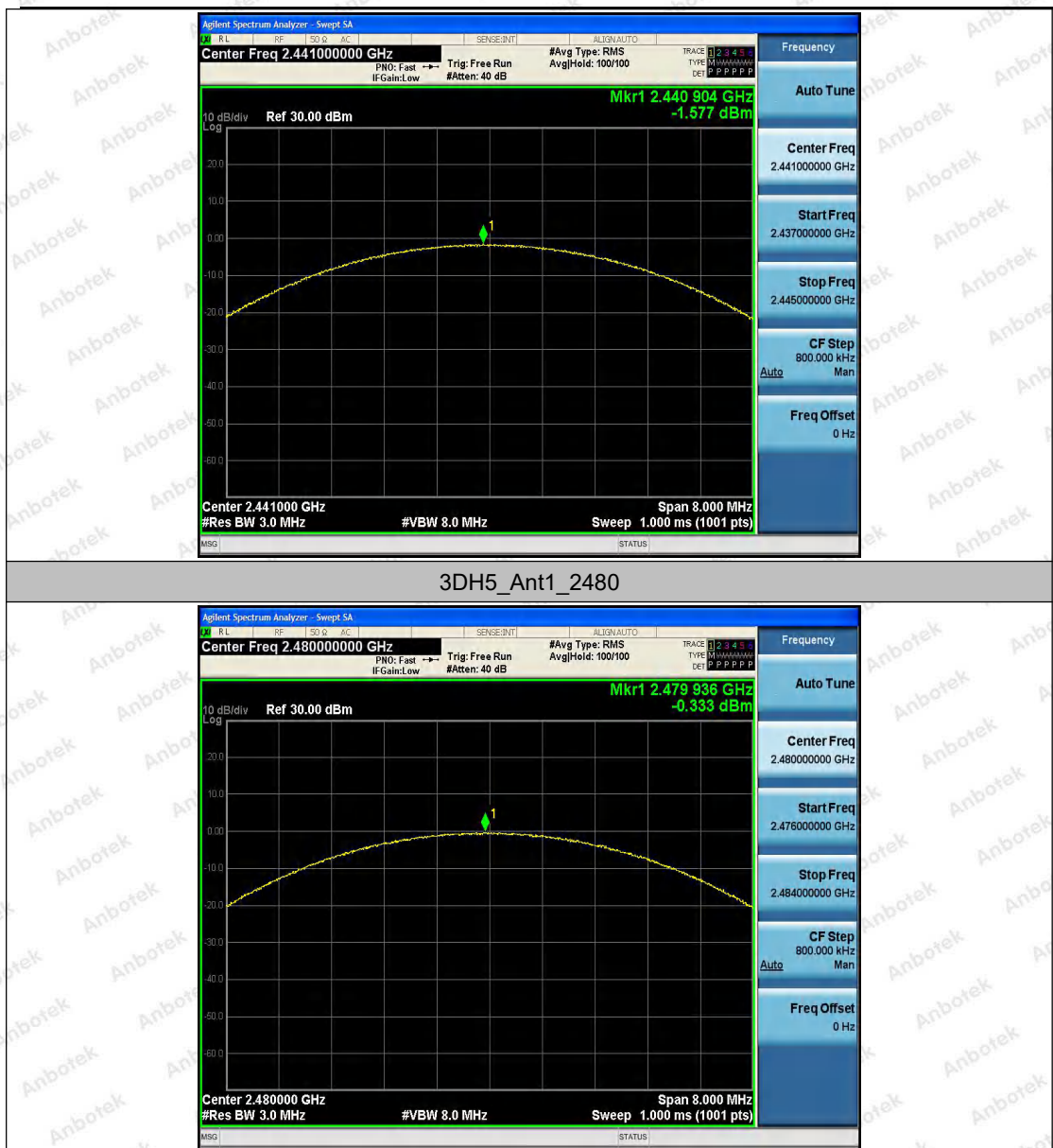


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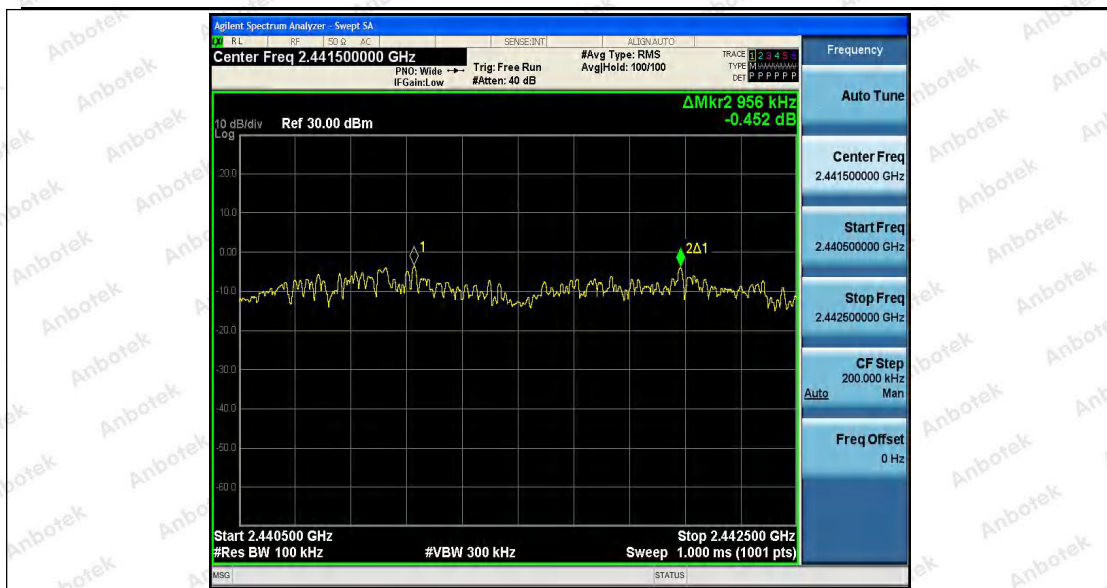
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.208	≥ 0.951	PASS
2DH5	Ant1	Hop	0.89	≥ 0.876	PASS
3DH5	Ant1	Hop	0.956	≥ 0.874	PASS

Test Graphs





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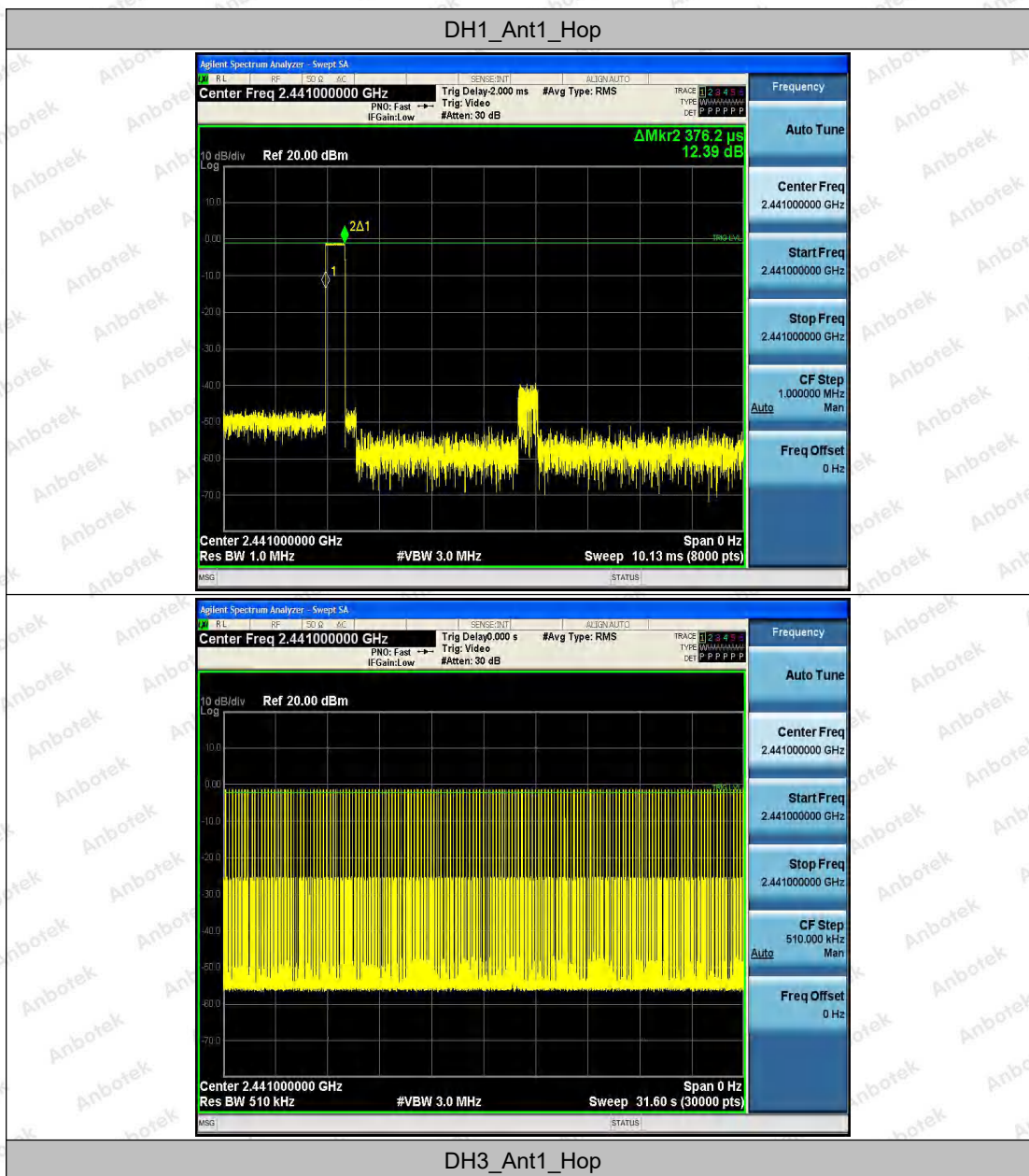
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.39	312	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.64	150	0.245	≤0.4	PASS
3DH5	Ant1	Hop	2.89	97	0.28	≤0.4	PASS

Test Graphs



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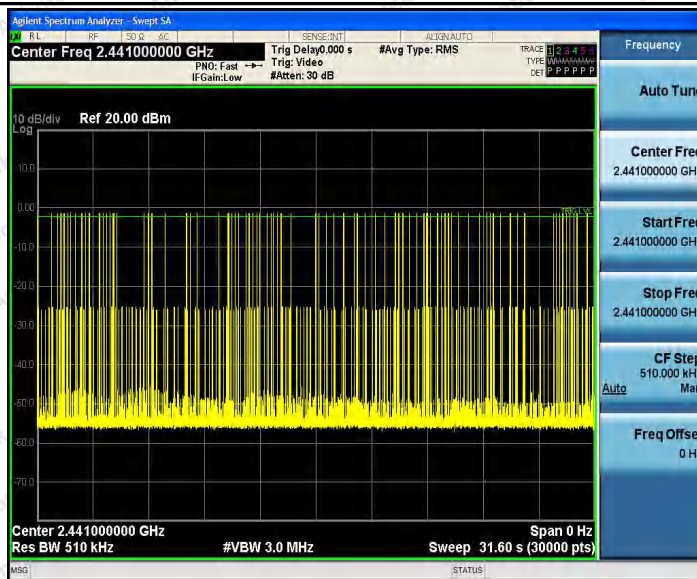
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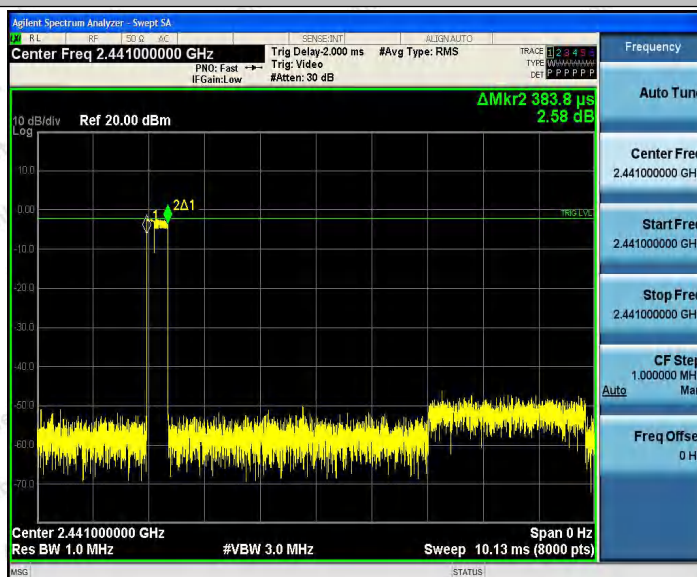
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DH5_Ant1_Hop



2DH1_Ant1_Hop



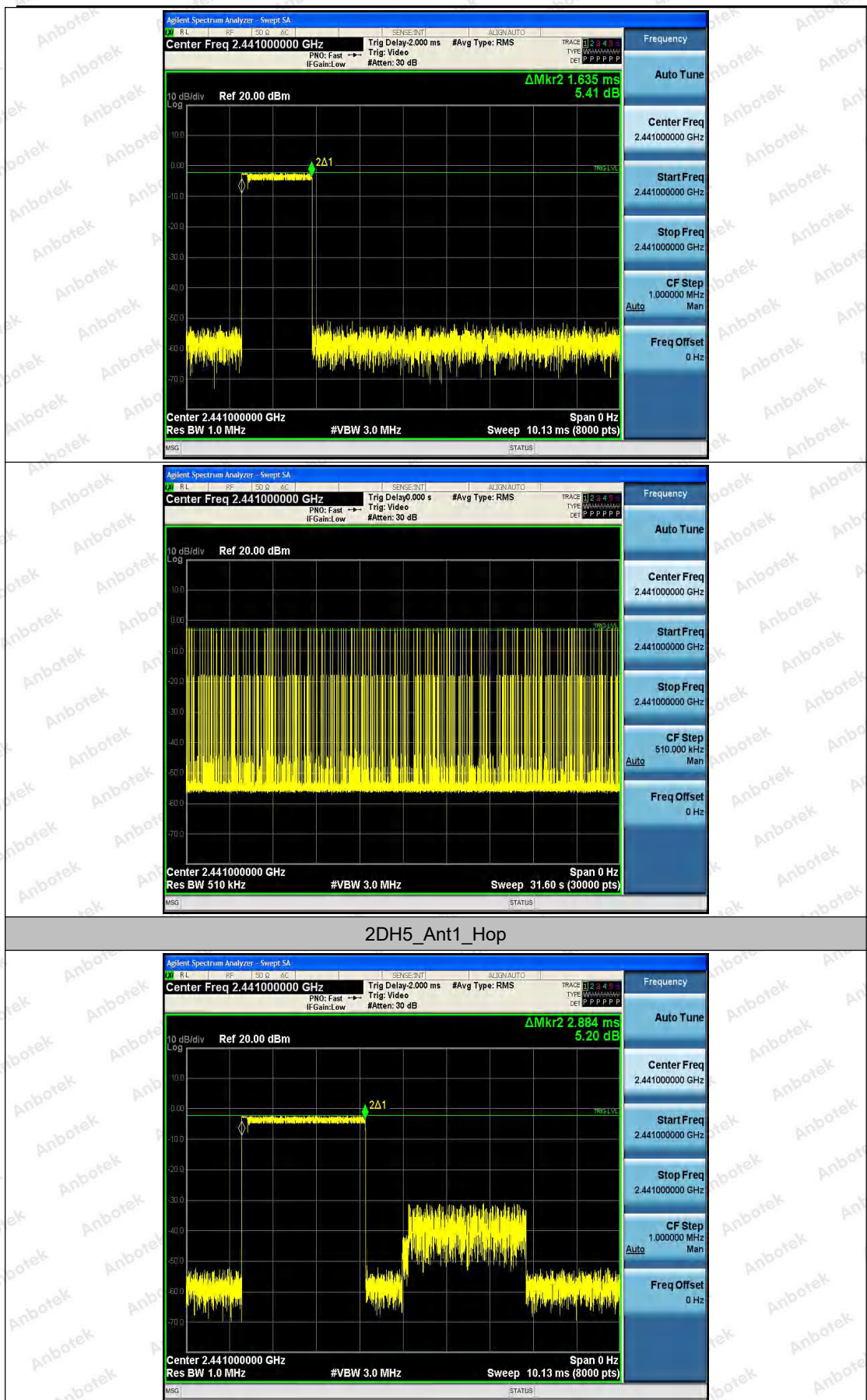
2DH3_Ant1_Hop

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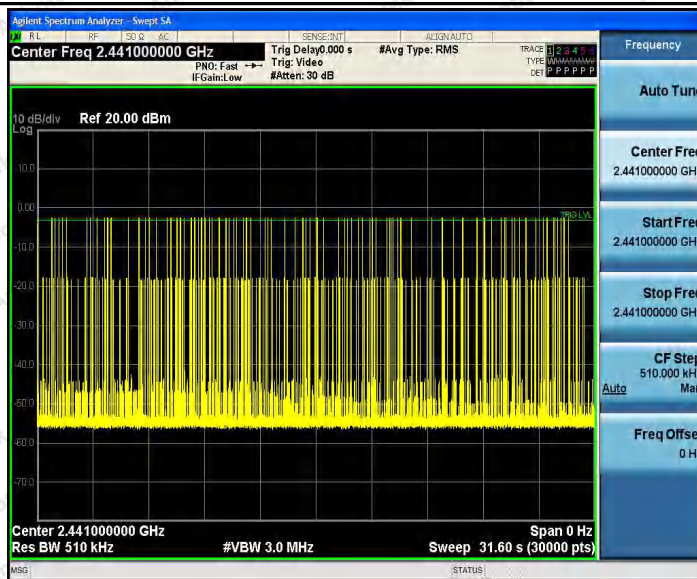
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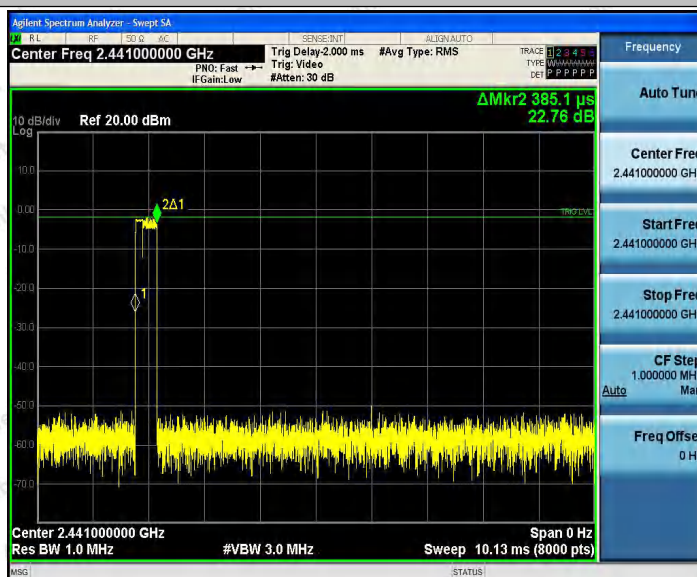
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3DH1_Ant1_Hop



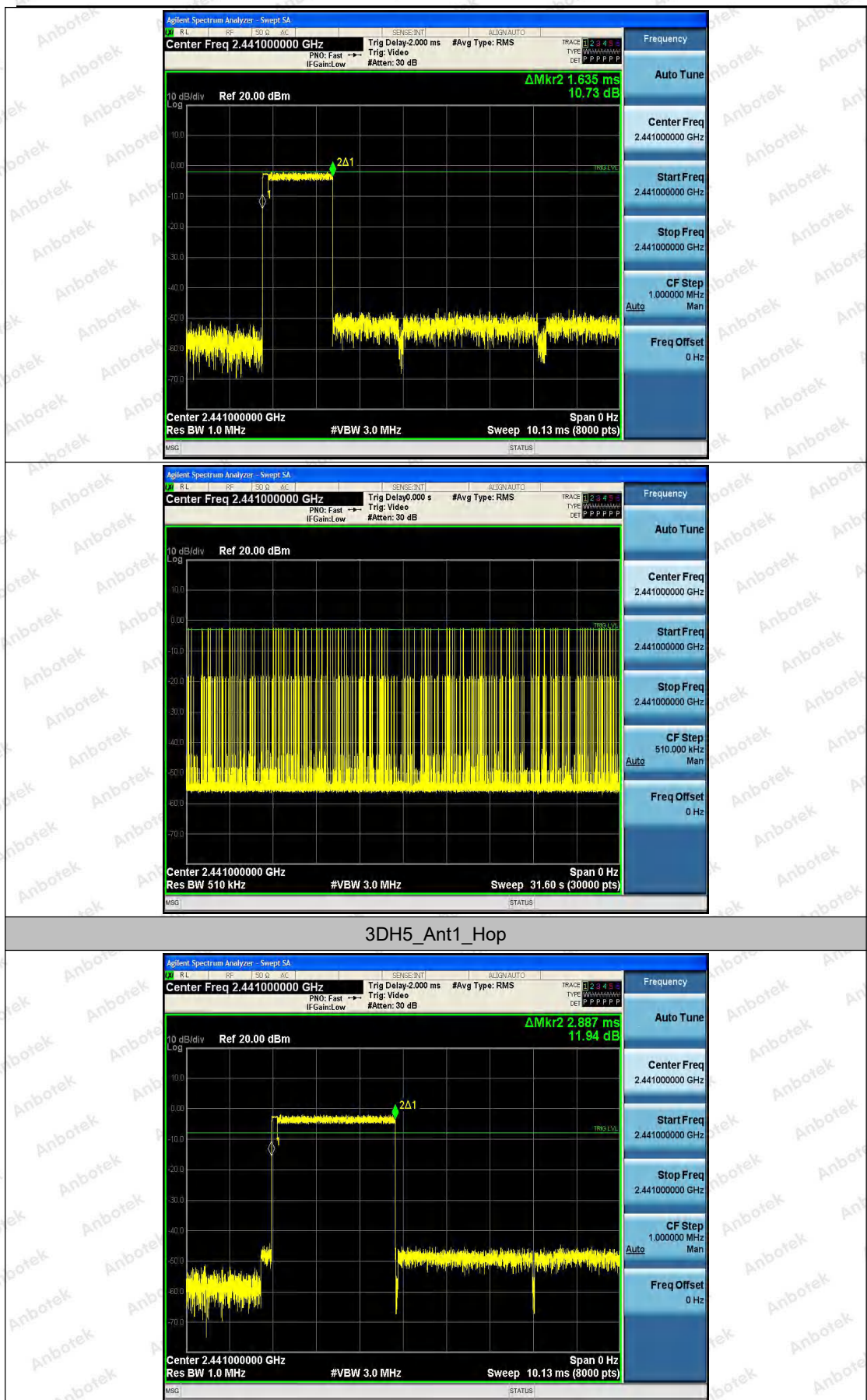
3DH3_Ant1_Hop

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3DH5_Ant1_Hop



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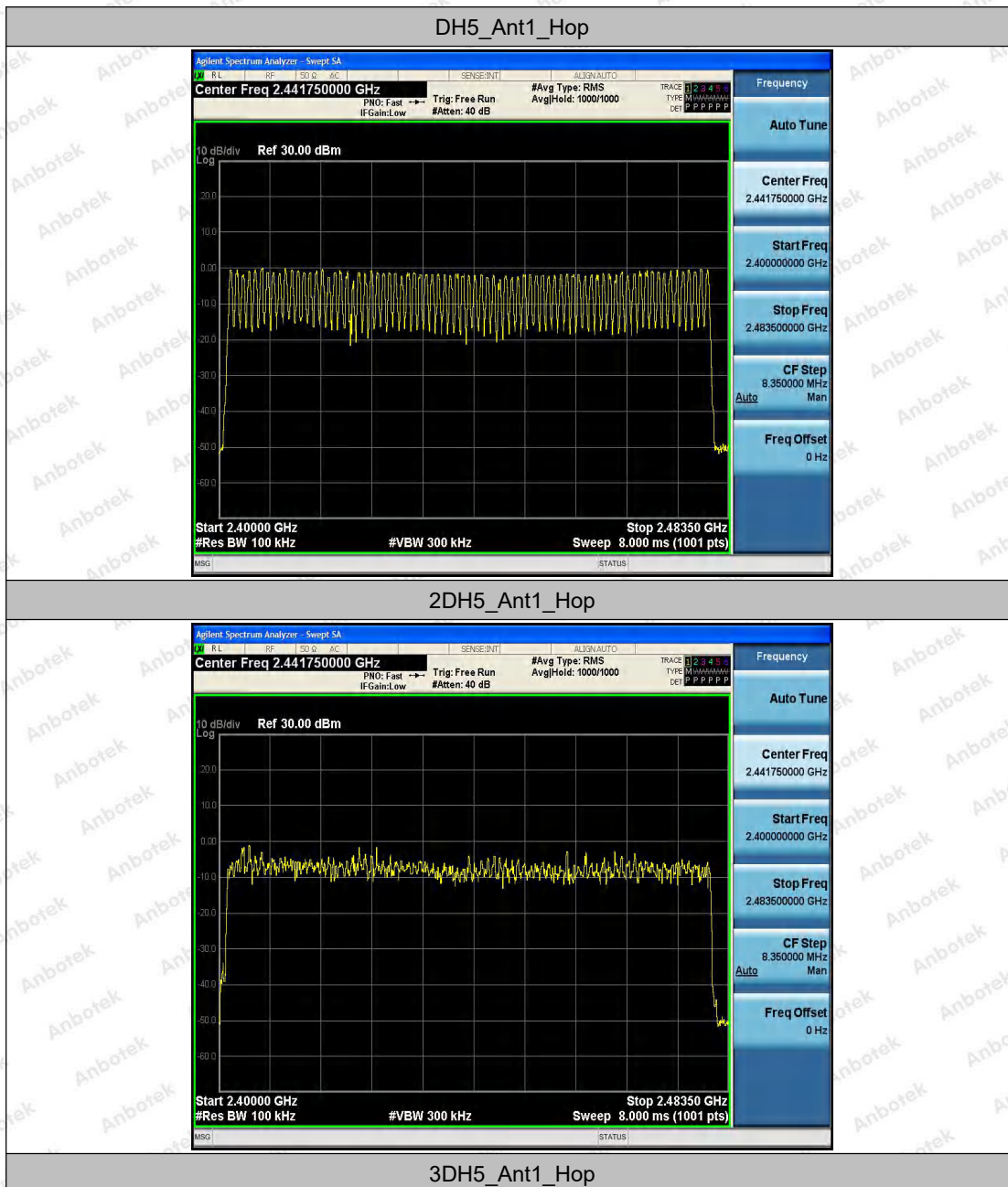
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Appendix F: Number of hopping channels

Test Result

Test Mode	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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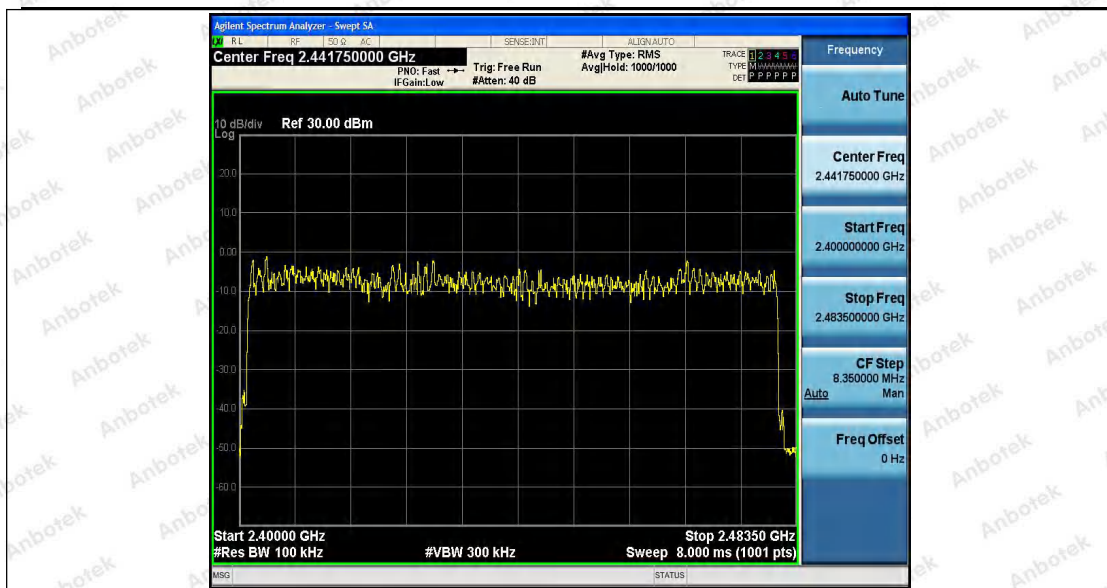
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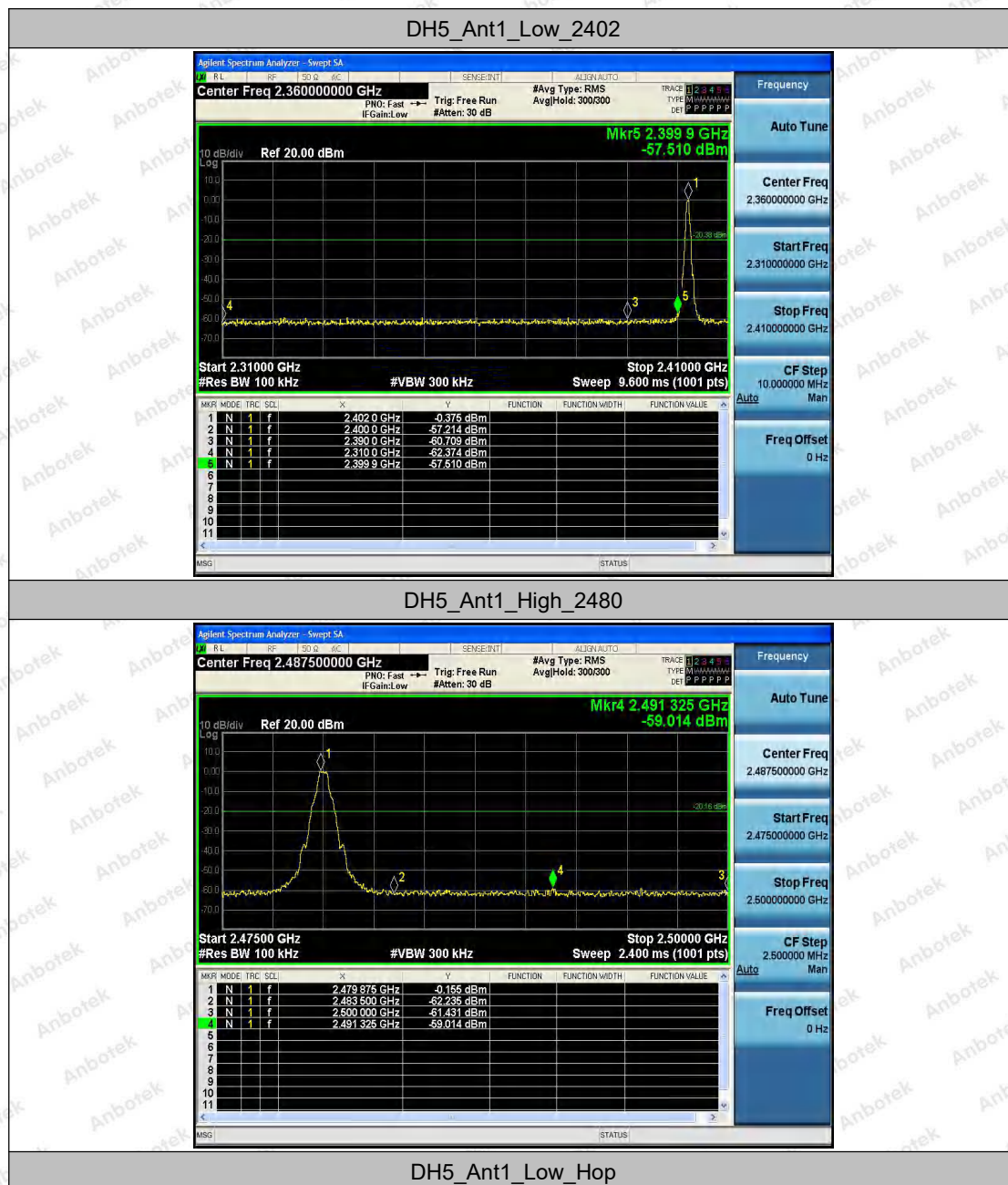
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.38	-57.51	≤-20.38	PASS
		High	2480	-0.16	-59.01	≤-20.16	PASS
		Low	Hop	-0.52	-58.77	≤-20.52	PASS
		High	Hop	-0.43	-61.13	≤-20.43	PASS
2DH5	Ant1	Low	2402	-1.76	-55.99	≤-21.76	PASS
		High	2480	-1.47	-58.56	≤-21.47	PASS
		Low	Hop	-2.21	-55.38	≤-22.21	PASS
		High	Hop	-3.28	-62.37	≤-23.28	PASS
3DH5	Ant1	Low	2402	-1.25	-43.55	≤-21.25	PASS
		High	2480	-1.47	-59.43	≤-21.47	PASS
		Low	Hop	-3.52	-59.05	≤-23.52	PASS
		High	Hop	-2.49	-59.42	≤-22.49	PASS

Test Graphs

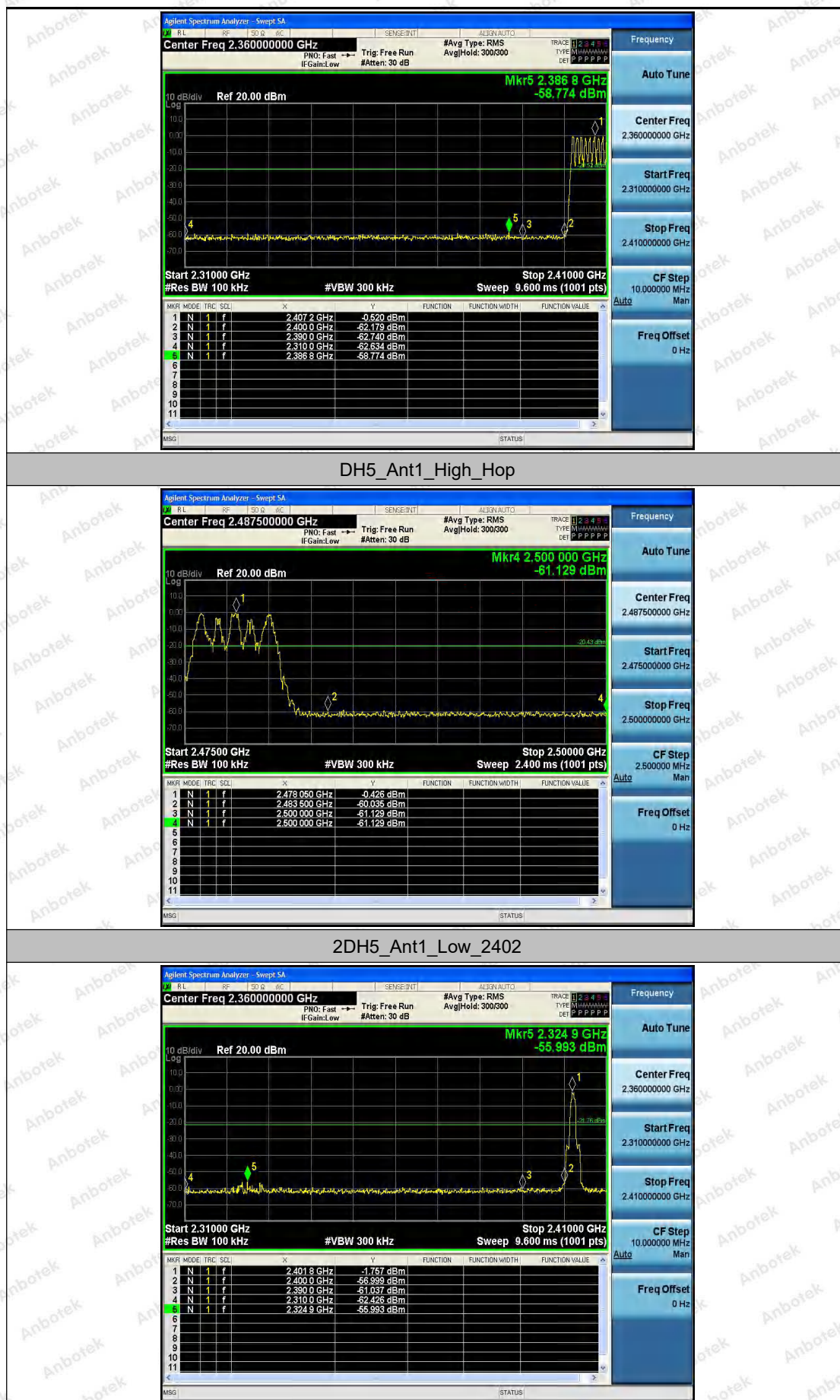


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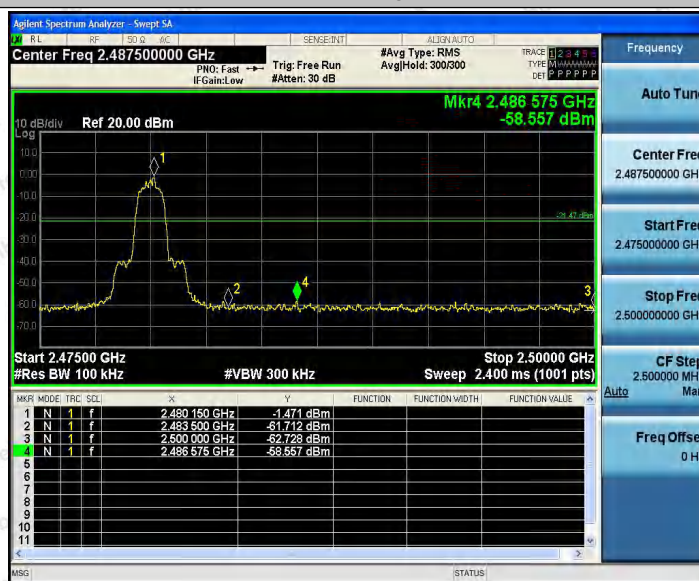
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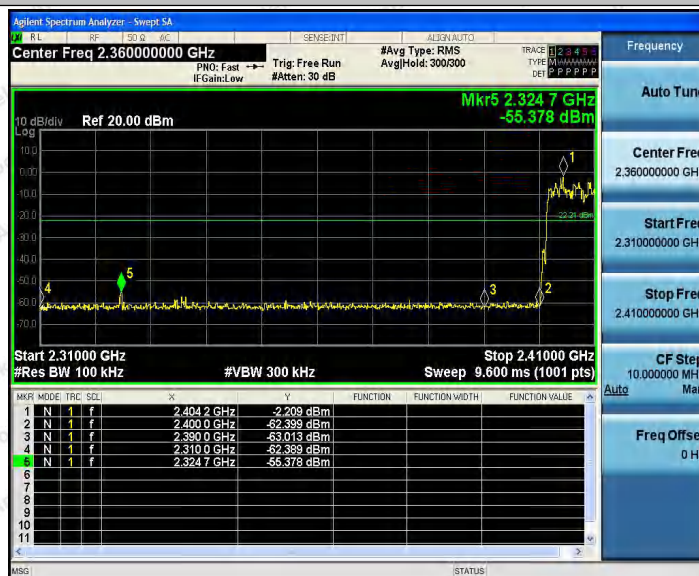
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



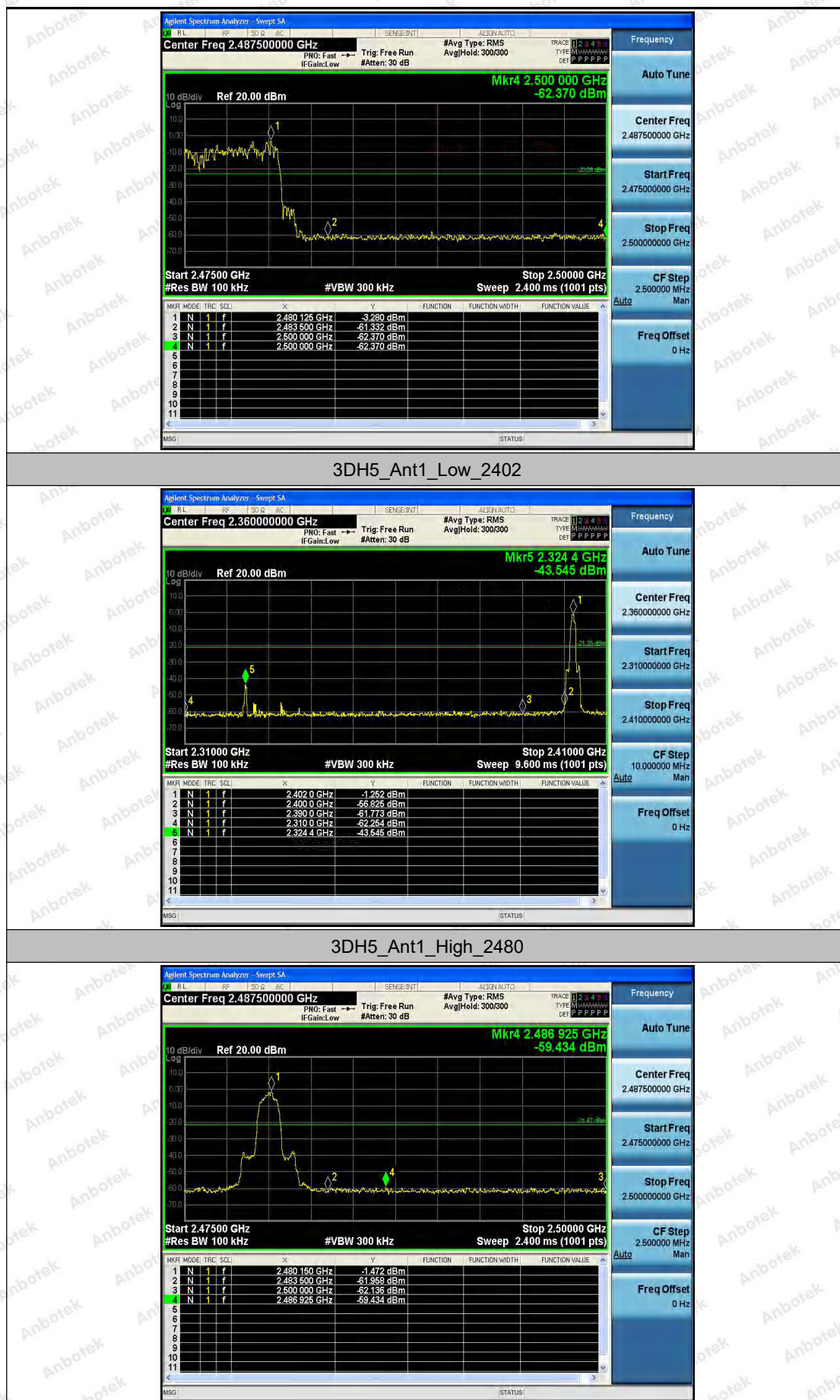
2DH5_Ant1_High_Hop

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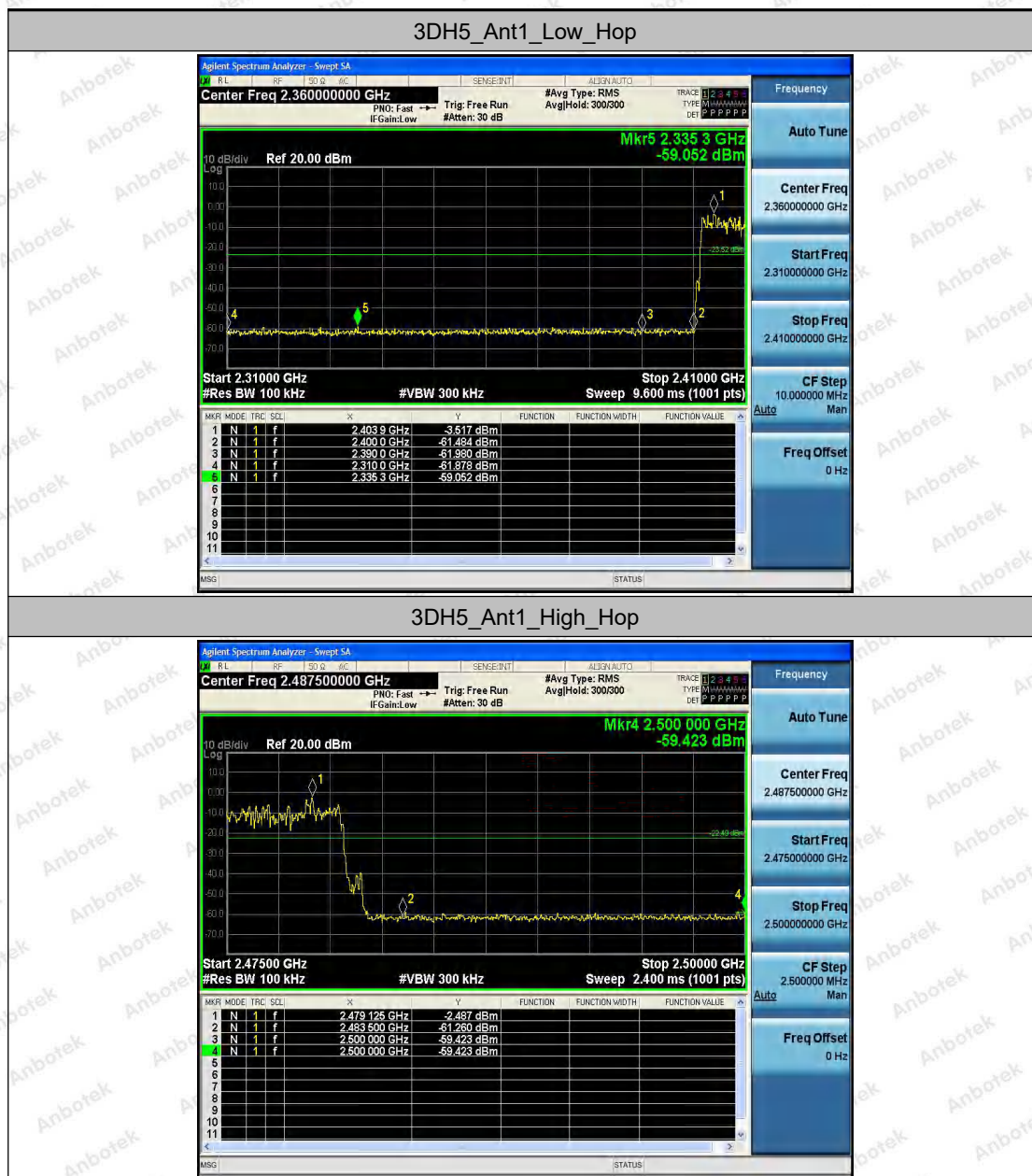


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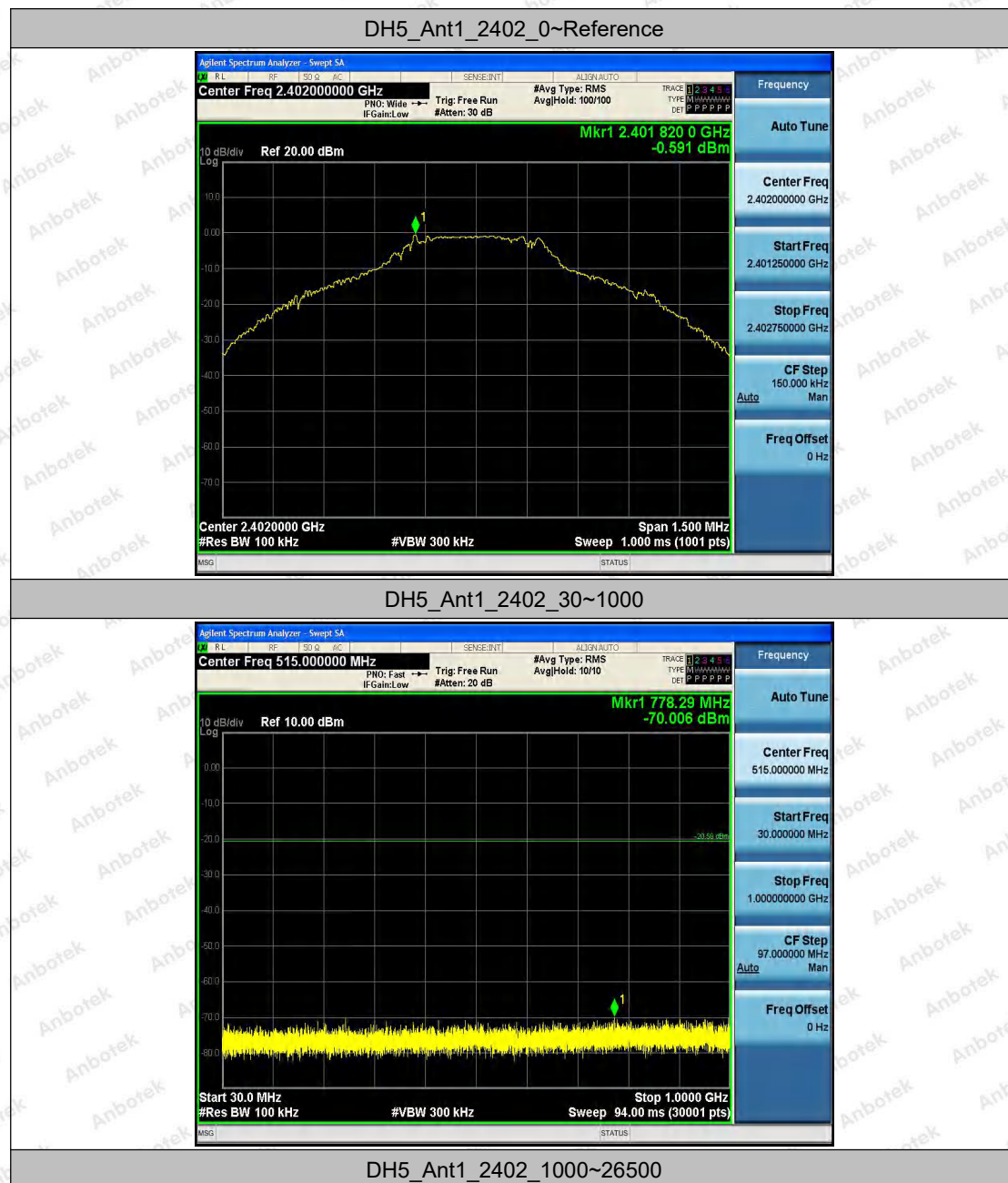


Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-70.01	≤-20.59	PASS
			1000~26500	-0.59	-43.27	≤-20.59	PASS
		2441	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-69.56	≤-21.51	PASS
			1000~26500	-1.51	-46.44	≤-21.51	PASS
		2480	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-69.94	≤-20.33	PASS
			1000~26500	-0.33	-47.83	≤-20.33	PASS
2DH5	Ant1	2402	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-69.45	≤-21.29	PASS
			1000~26500	-1.29	-47.82	≤-21.29	PASS
		2441	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-69.24	≤-22.83	PASS
			1000~26500	-2.83	-49.02	≤-22.83	PASS
		2480	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-69.39	≤-22.25	PASS
			1000~26500	-2.25	-53.9	≤-22.25	PASS
3DH5	Ant1	2402	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-70.11	≤-21.9	PASS
			1000~26500	-1.90	-48.79	≤-21.9	PASS
		2441	Reference	-3.55	-3.55	---	PASS
			30~1000	-3.55	-69.08	≤-23.55	PASS
			1000~26500	-3.55	-50.19	≤-23.55	PASS
		2480	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-69.27	≤-21.51	PASS
			1000~26500	-1.51	-52.96	≤-21.51	PASS

Test Graphs

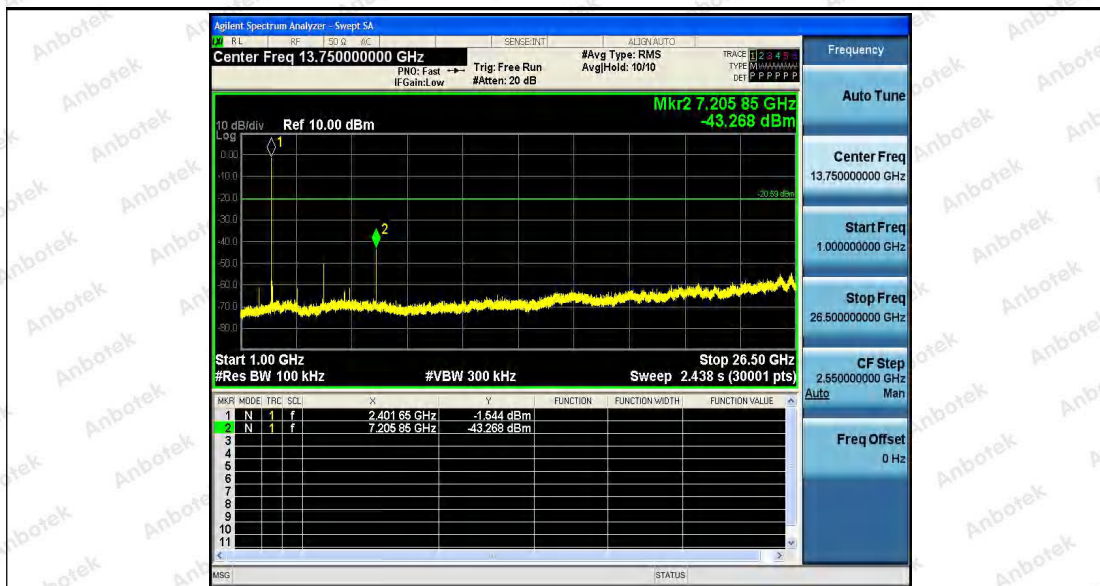


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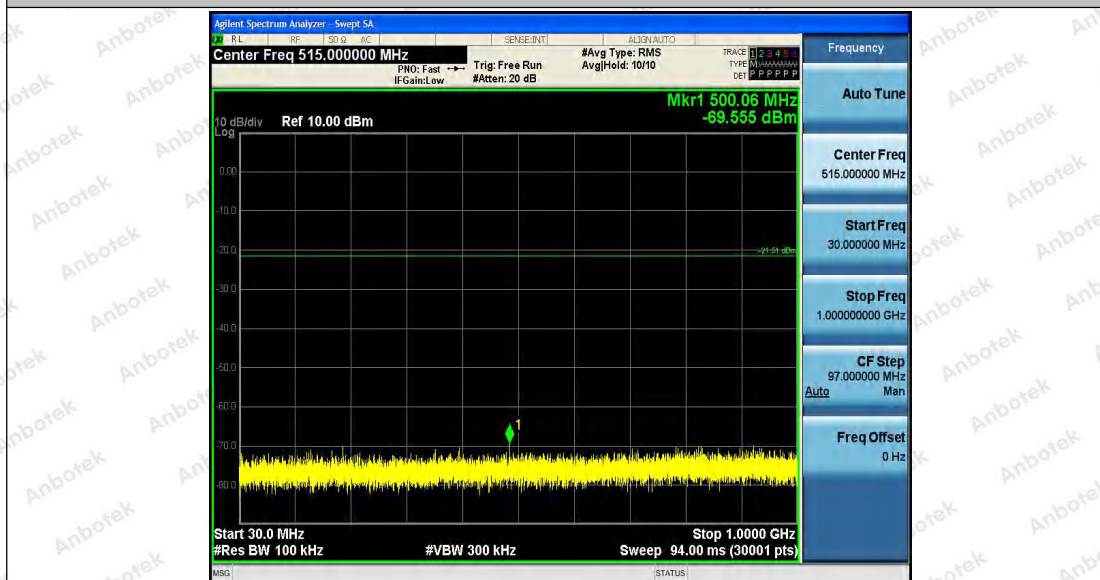
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



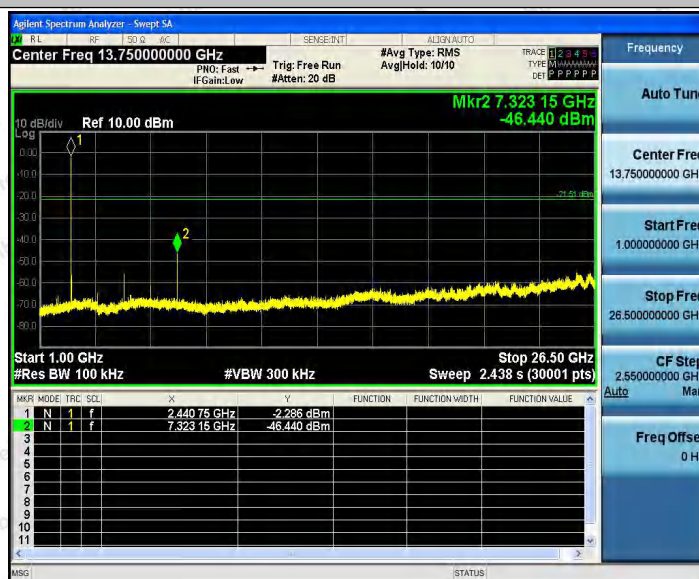
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



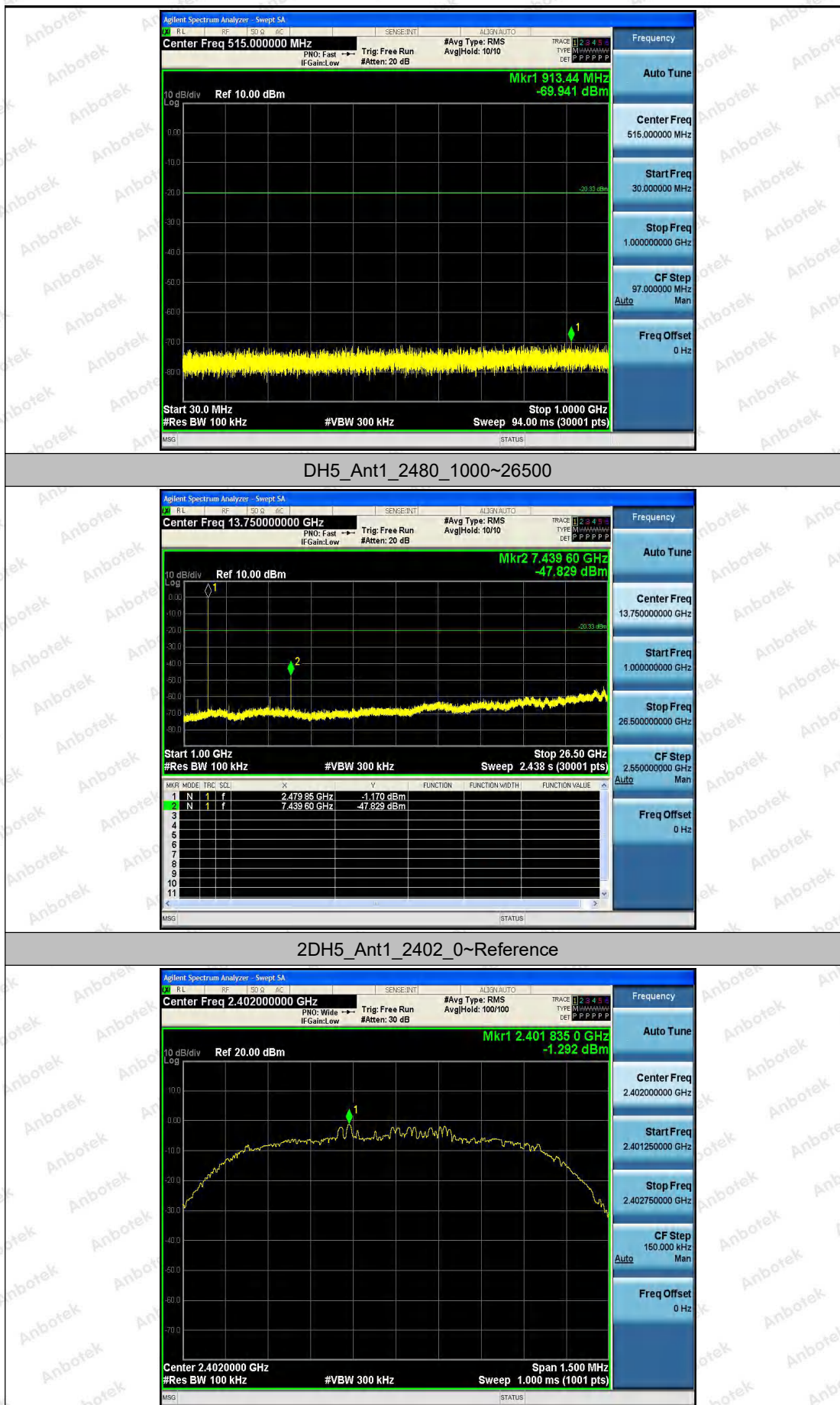
DH5_Ant1_2480_30~1000

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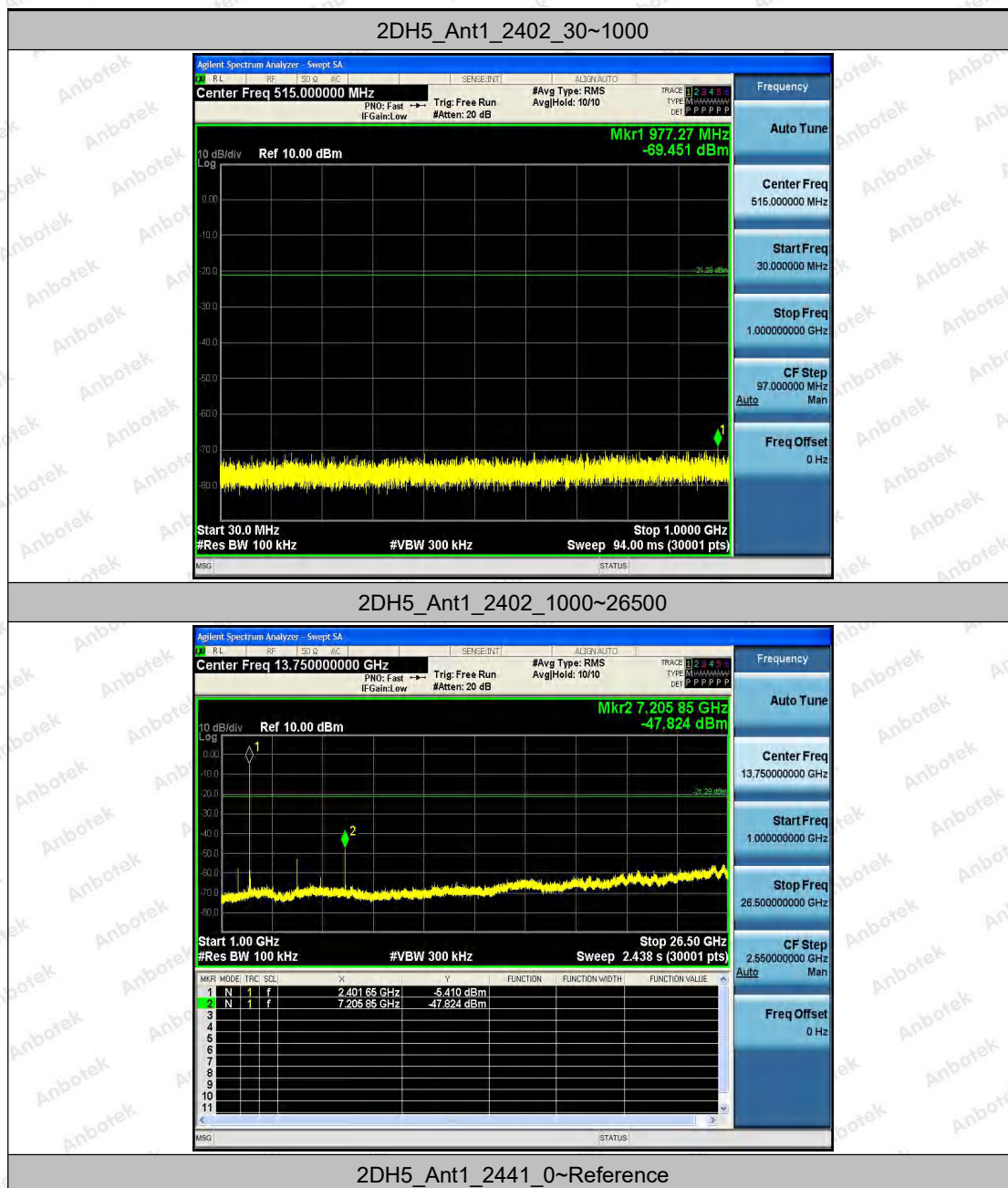


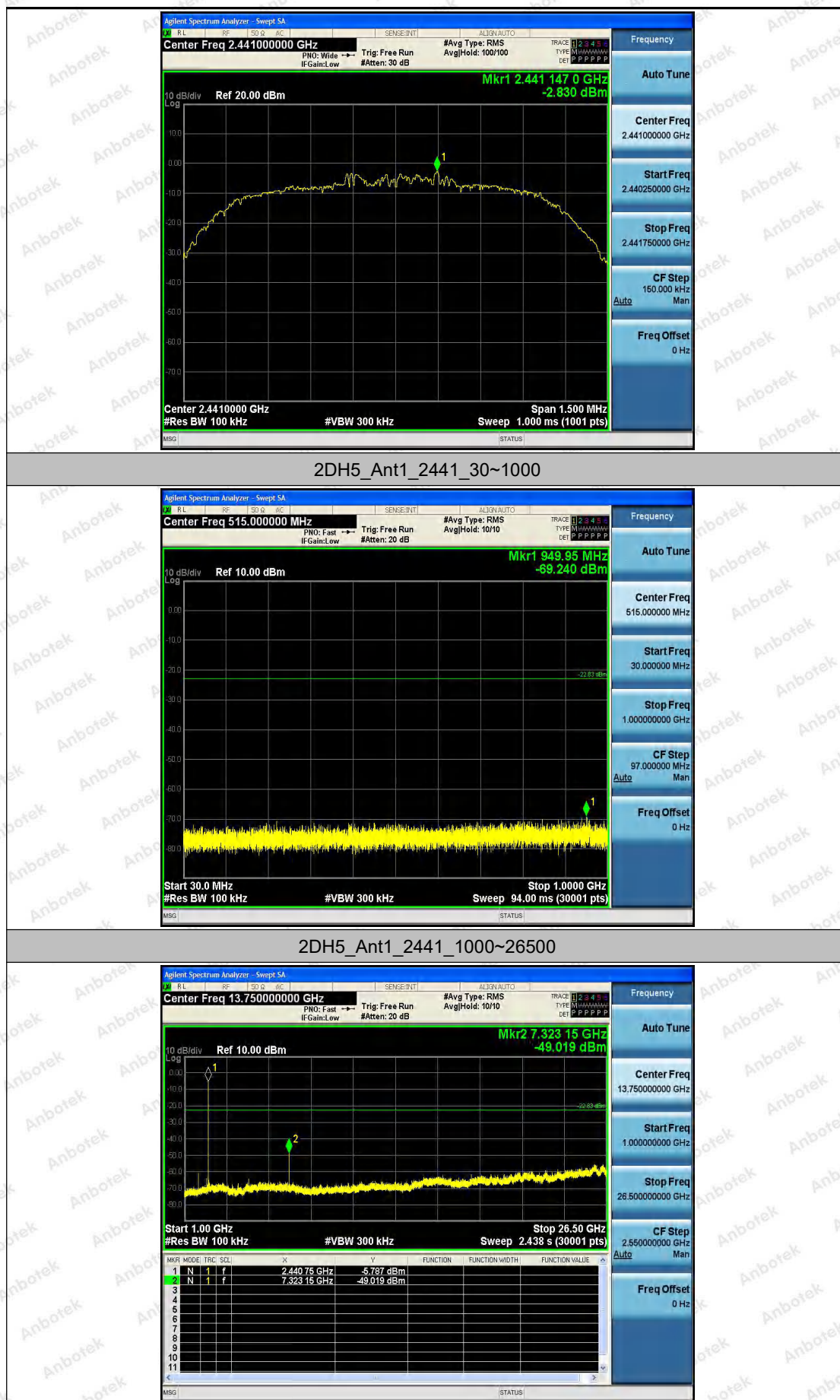
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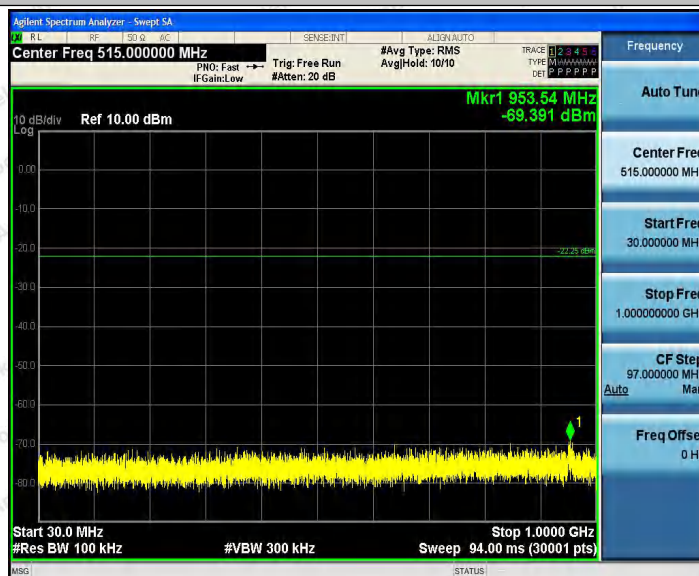
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



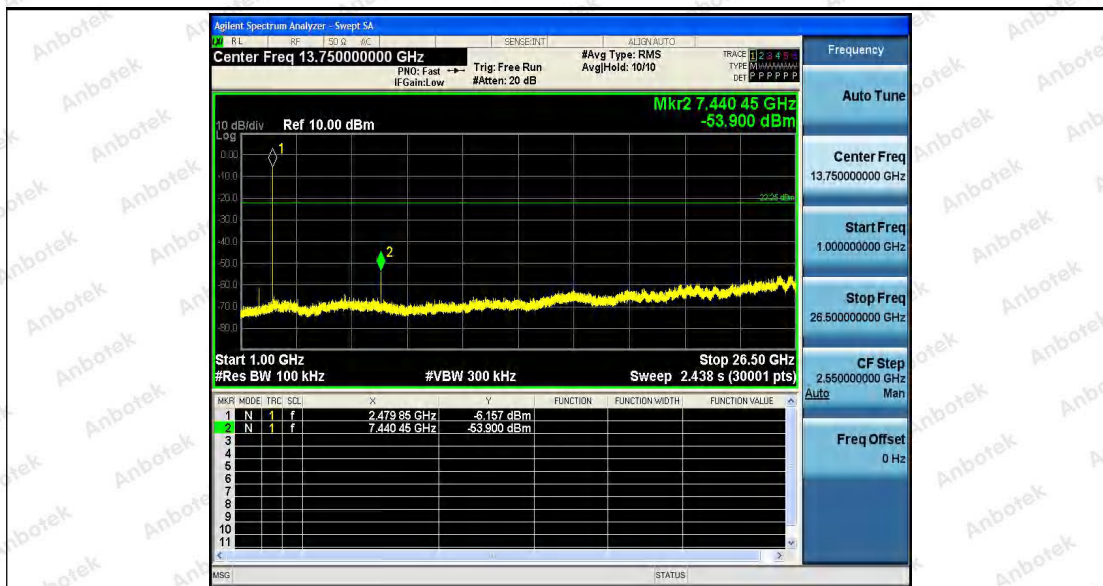
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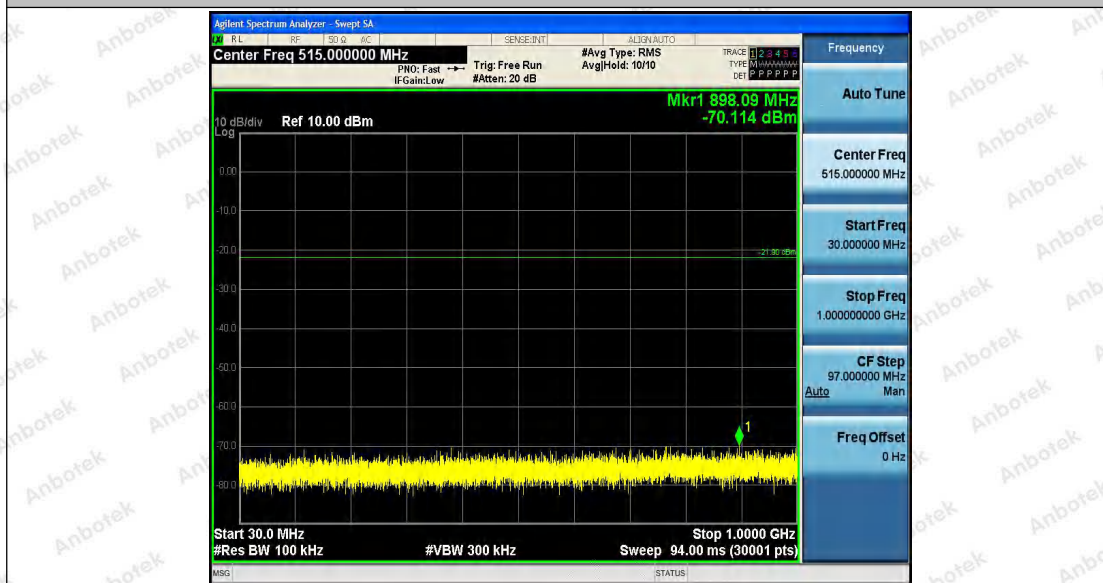
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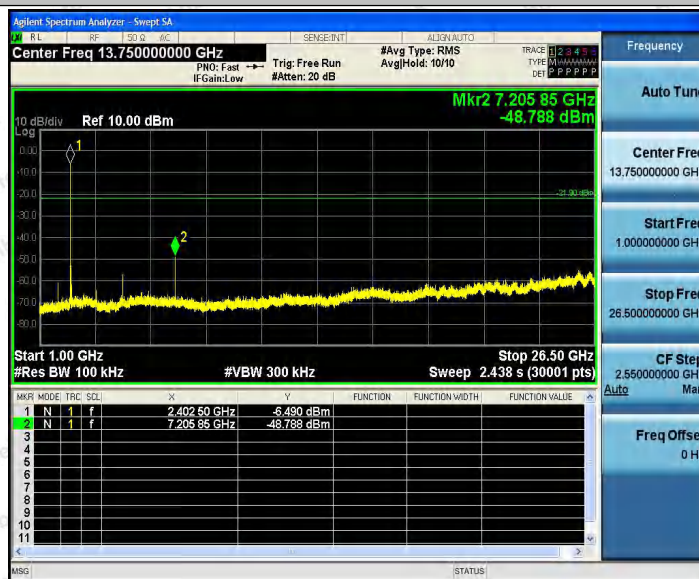
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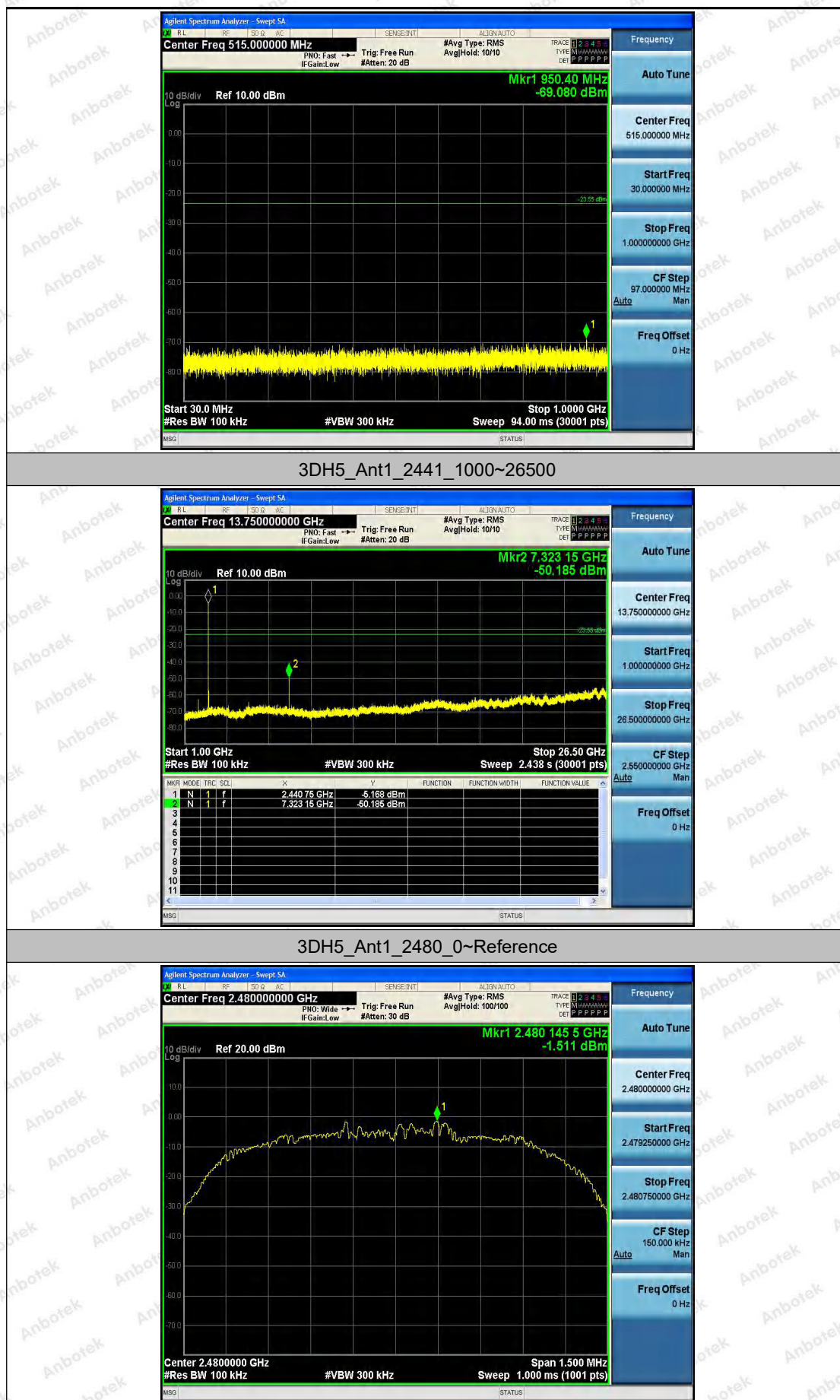
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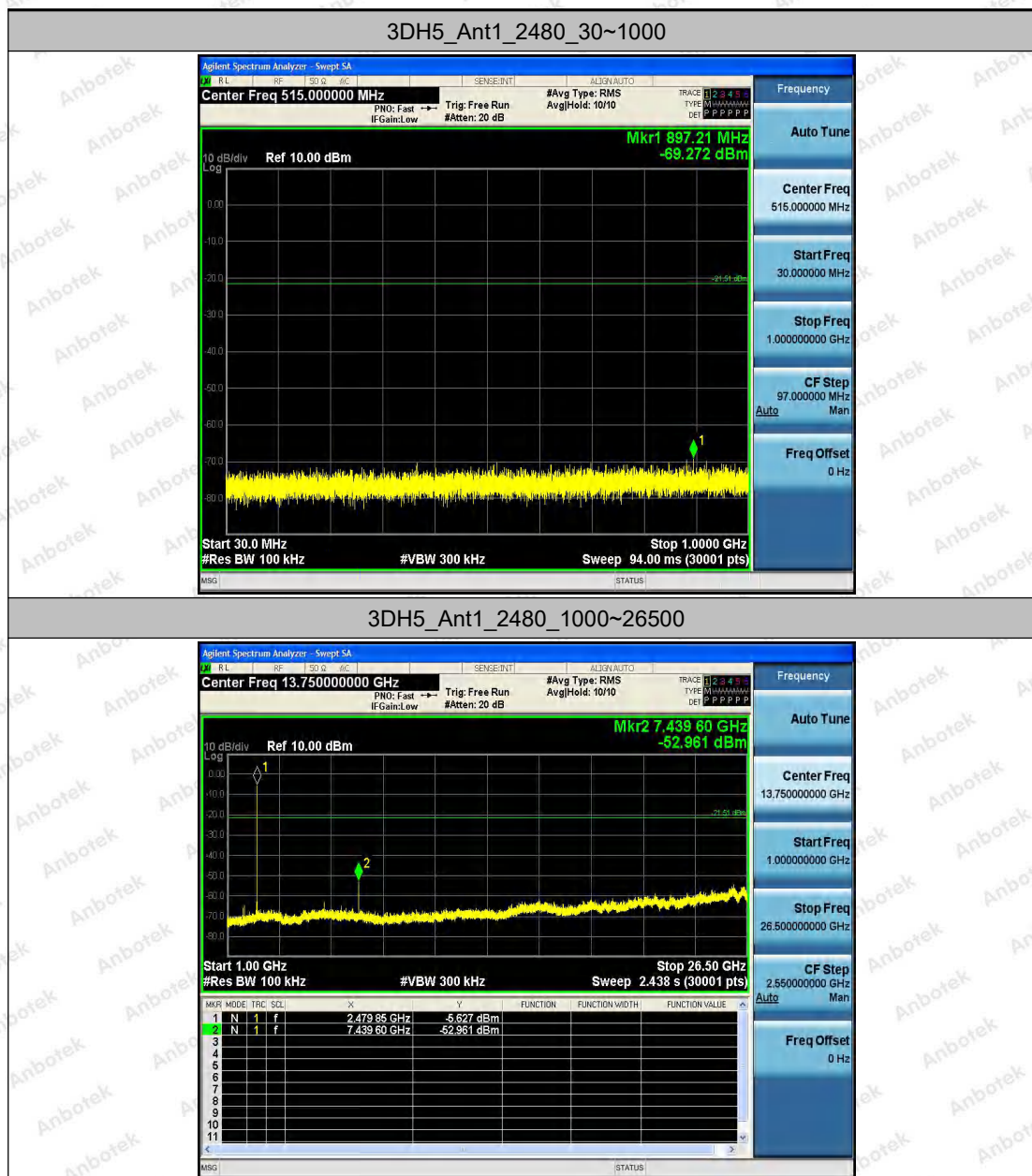


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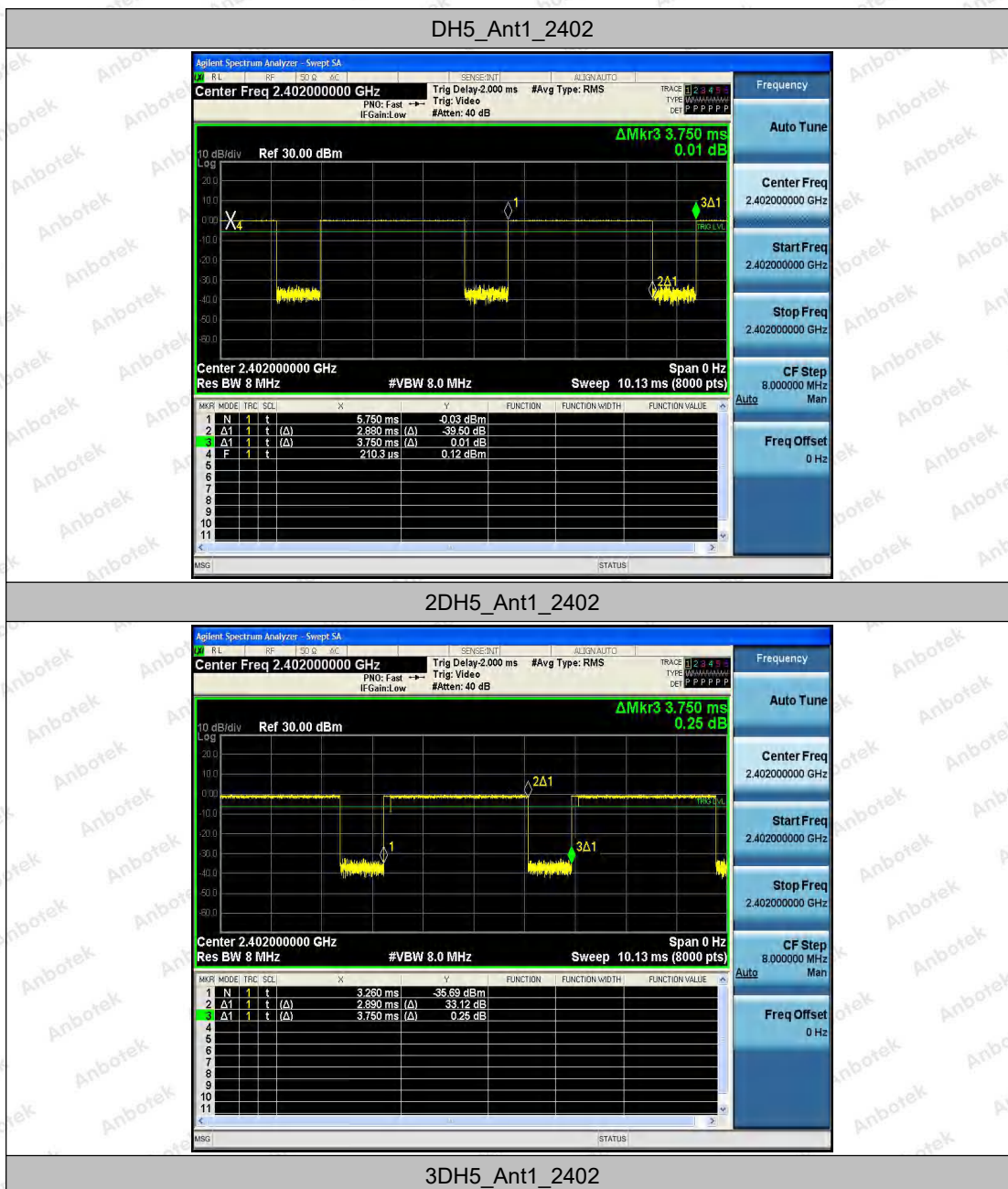
www.anbotech.com

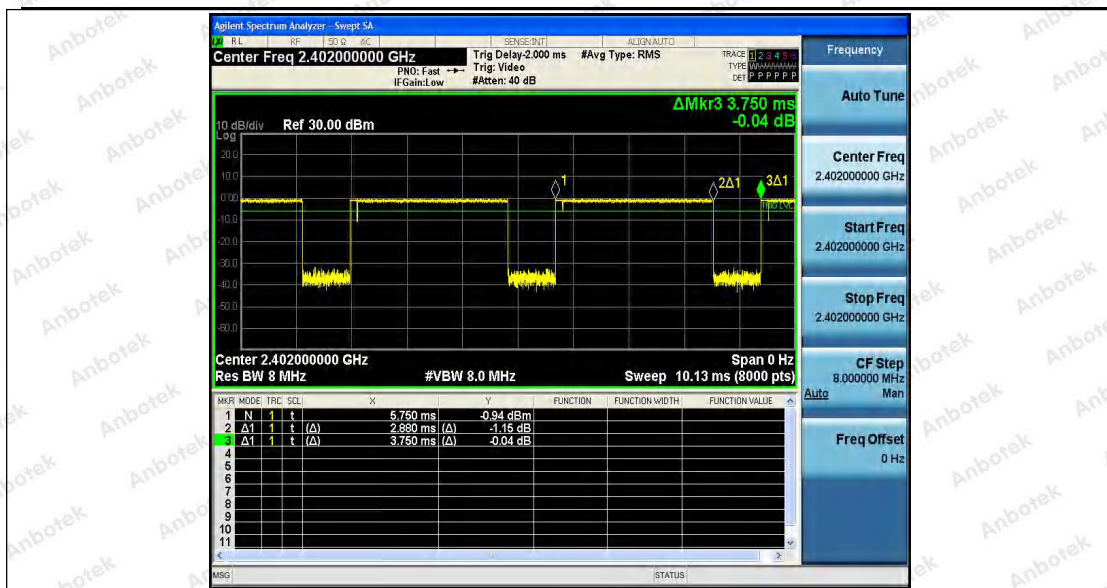
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---