

Appendix Test Data

Report No.:	18220WC10194401	Test Date:	2021.9.17
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

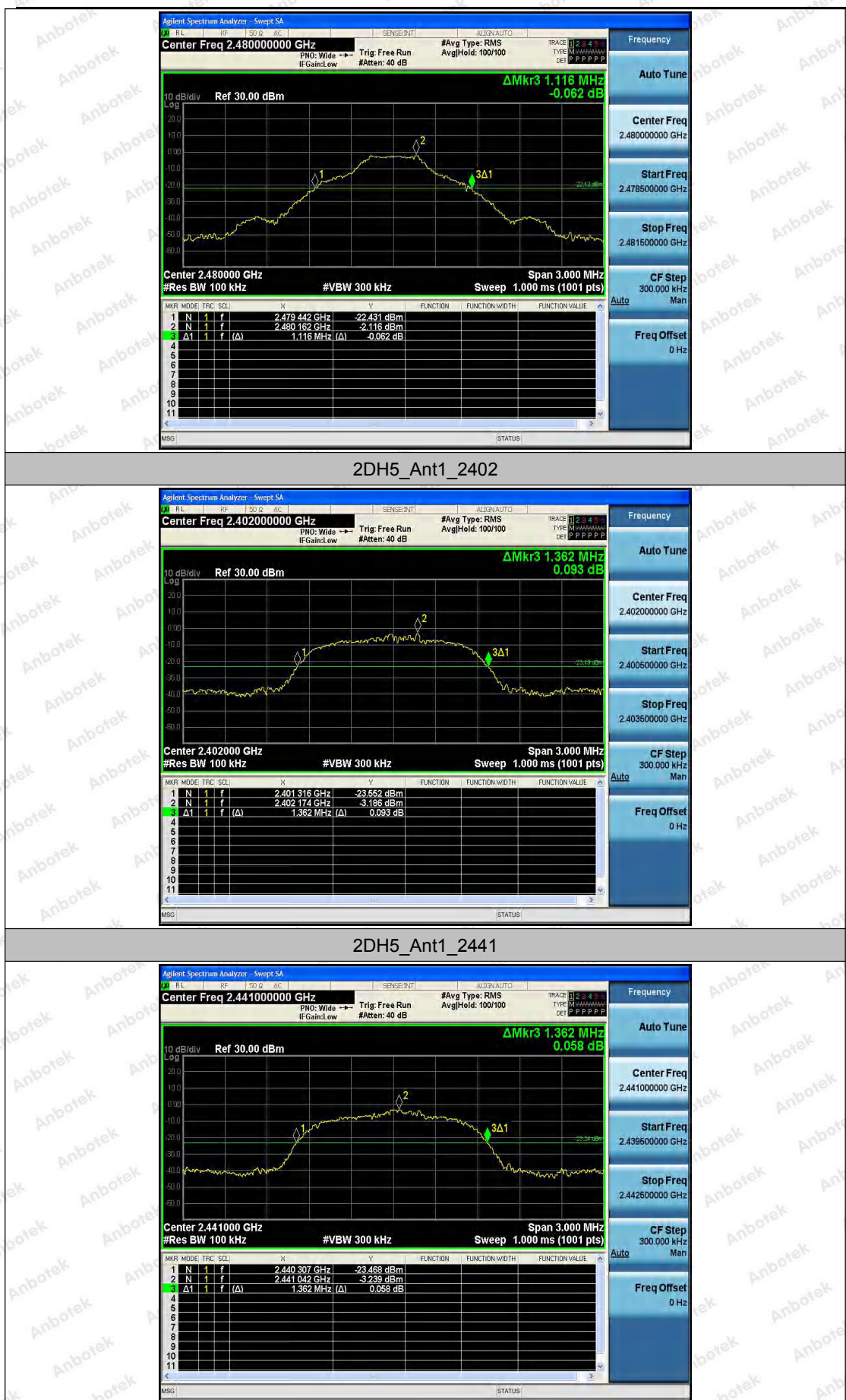
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.134	2401.430	2402.564	---	PASS
		2441	1.134	2440.430	2441.564	---	PASS
		2480	1.116	2479.442	2480.558	---	PASS
2DH5	Ant1	2402	1.362	2401.316	2402.678	---	PASS
		2441	1.362	2440.307	2441.669	---	PASS
		2480	1.353	2479.319	2480.672	---	PASS
3DH5	Ant1	2402	1.380	2401.310	2402.690	---	PASS
		2441	1.374	2440.322	2441.696	---	PASS
		2480	1.344	2479.319	2480.663	---	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	0.87834	2401.55 6	2402.435	---	PASS
		2441	0.89424	2440.55 1	2441.445	---	PASS
		2480	0.88420	2479.55 7	2480.441	---	PASS
2DH5	Ant1	2402	1.1965	2401.39 8	2402.595	---	PASS
		2441	1.1912	2440.39 9	2441.590	---	PASS
		2480	1.1869	2479.40 2	2480.589	---	PASS
3DH5	Ant1	2402	1.2074	2401.38 4	2402.591	---	PASS
		2441	1.2012	2440.38 8	2441.590	---	PASS
		2480	1.1981	2479.39 1	2480.589	---	PASS

Test Graphs



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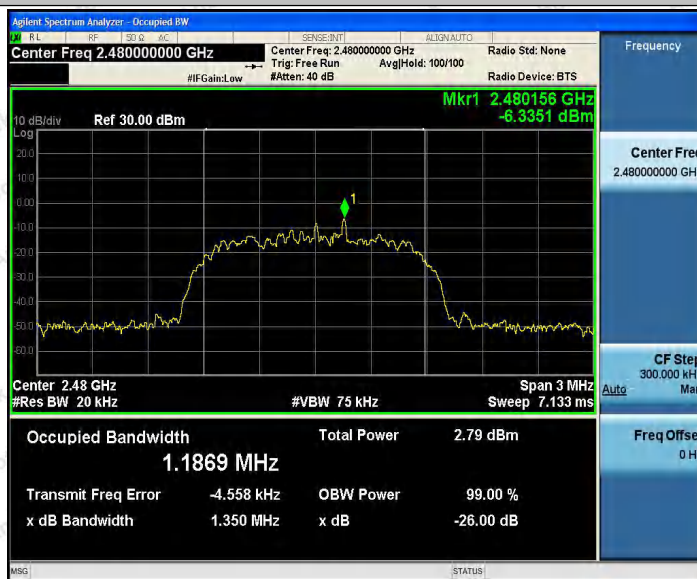
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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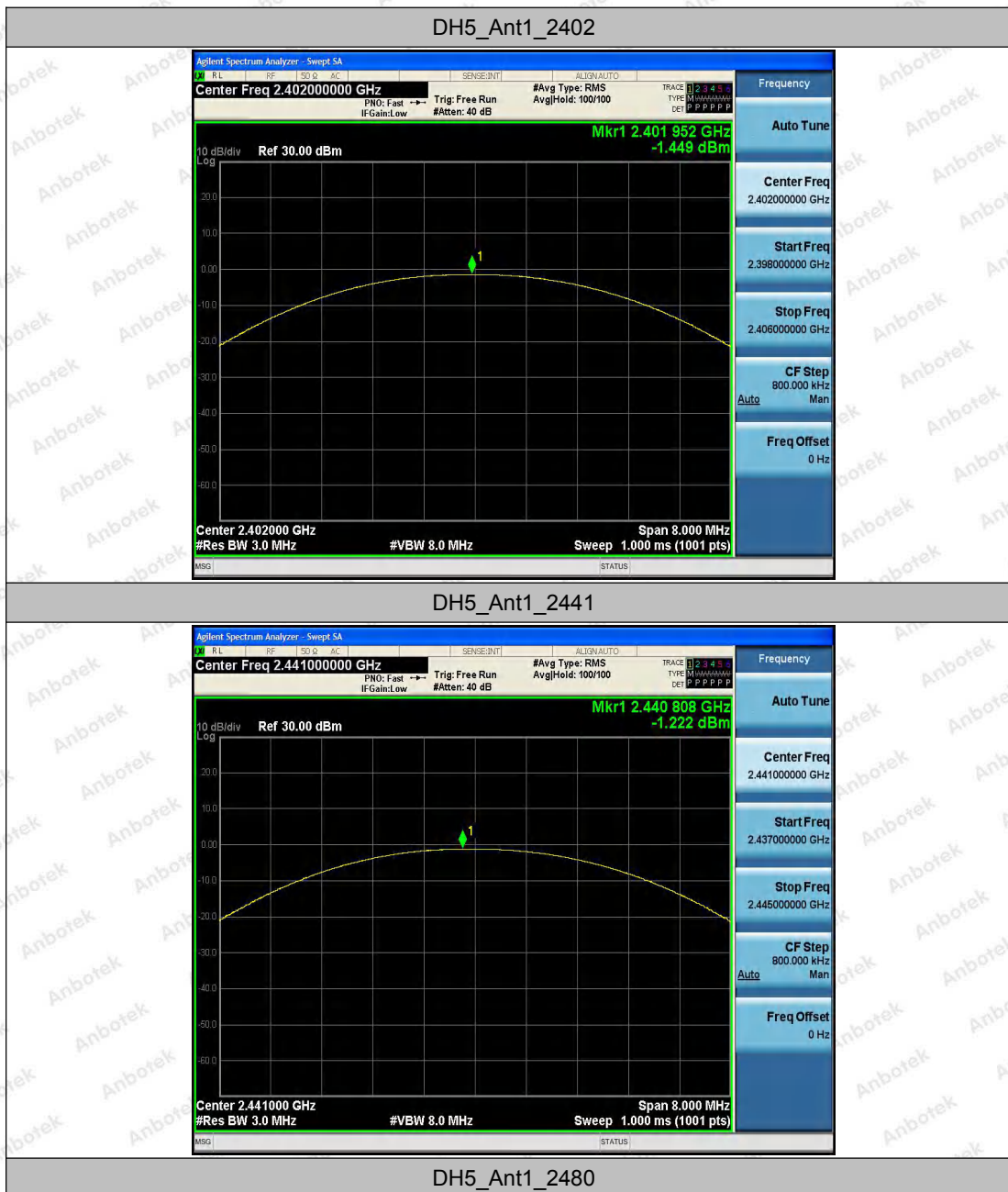
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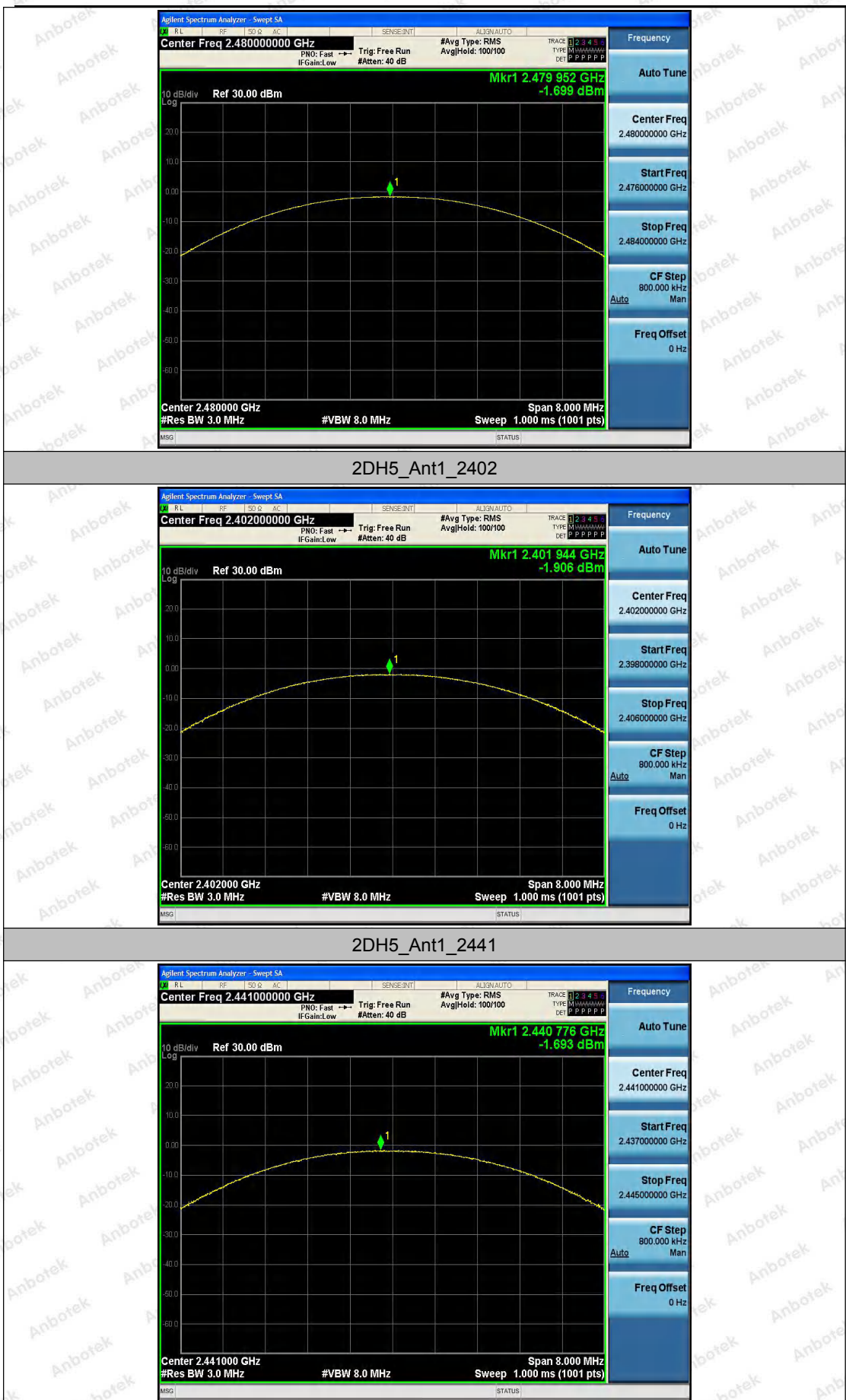
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.45	≤20.97	PASS
		2441	-1.22	≤20.97	PASS
		2480	-1.7	≤20.97	PASS
2DH5	Ant1	2402	-1.91	≤20.97	PASS
		2441	-1.69	≤20.97	PASS
		2480	-2.32	≤20.97	PASS
3DH5	Ant1	2402	-1.79	≤20.97	PASS
		2441	-1.19	≤20.97	PASS
		2480	-1.63	≤20.97	PASS

Test Graphs





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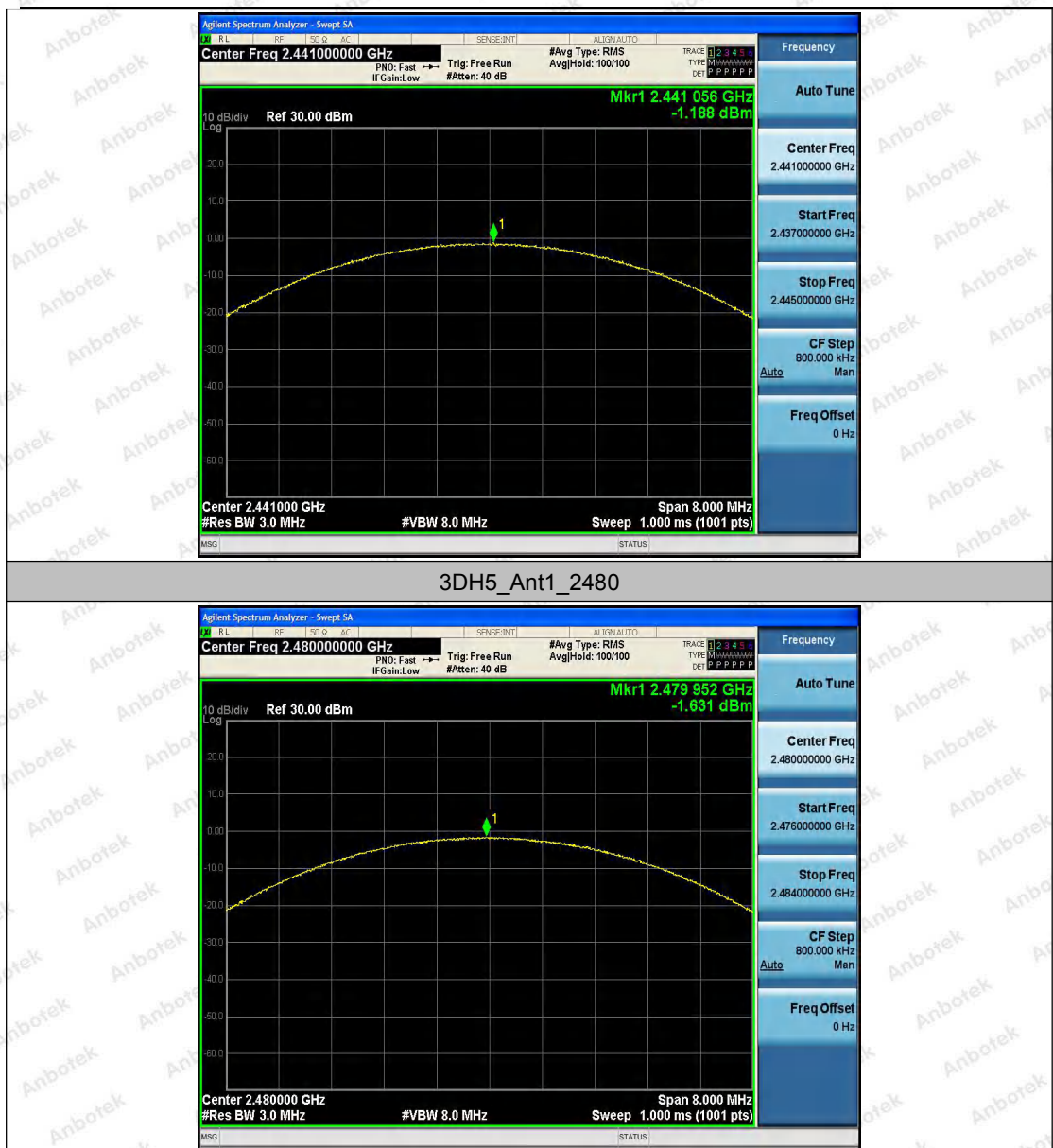


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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.212	≥ 1.134	PASS
2DH5	Ant1	Hop	1.006	≥ 0.908	PASS
3DH5	Ant1	Hop	0.966	≥ 0.920	PASS

Test Graphs





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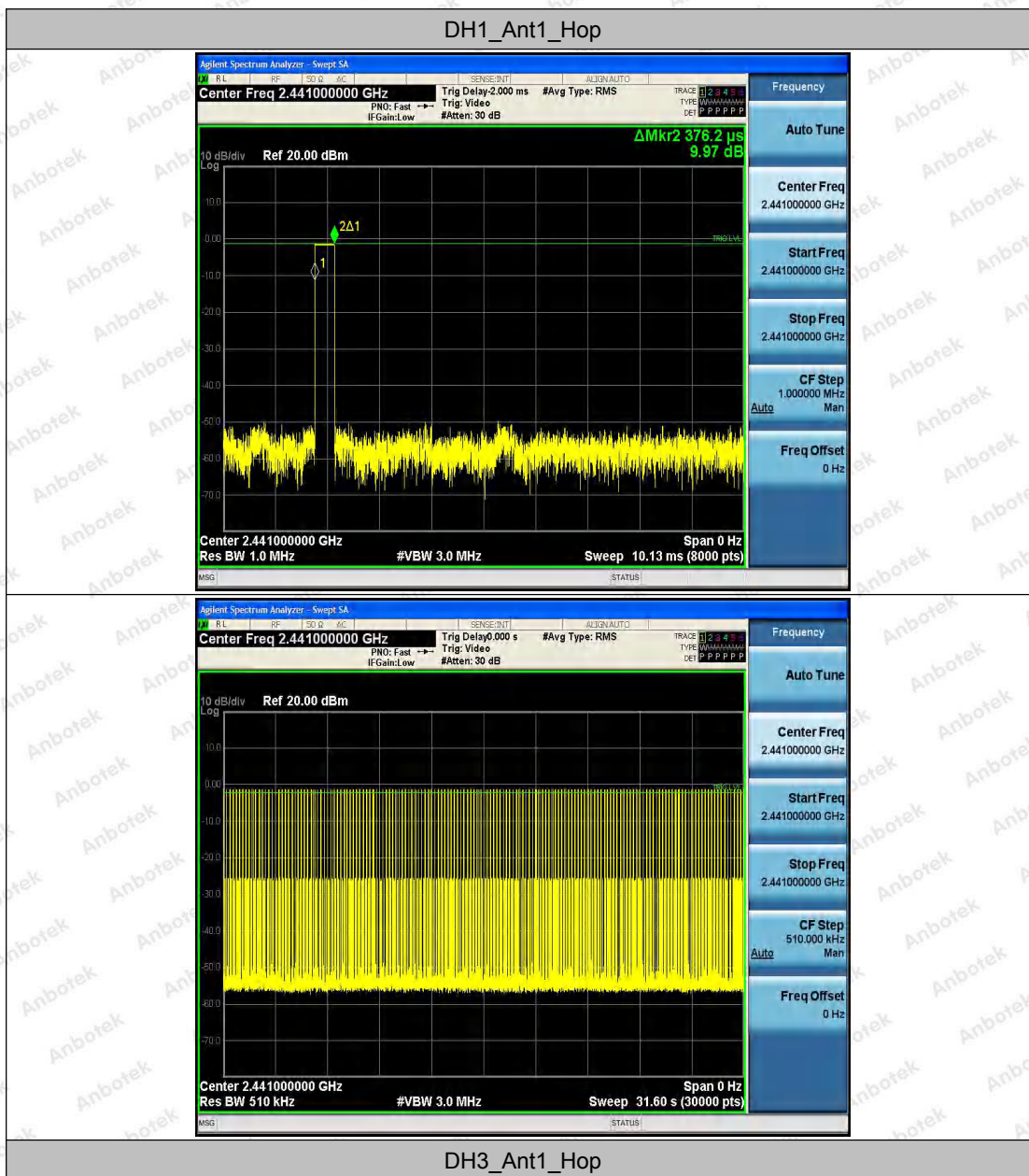
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.89	104	0.3	≤0.4	PASS

Test Graphs



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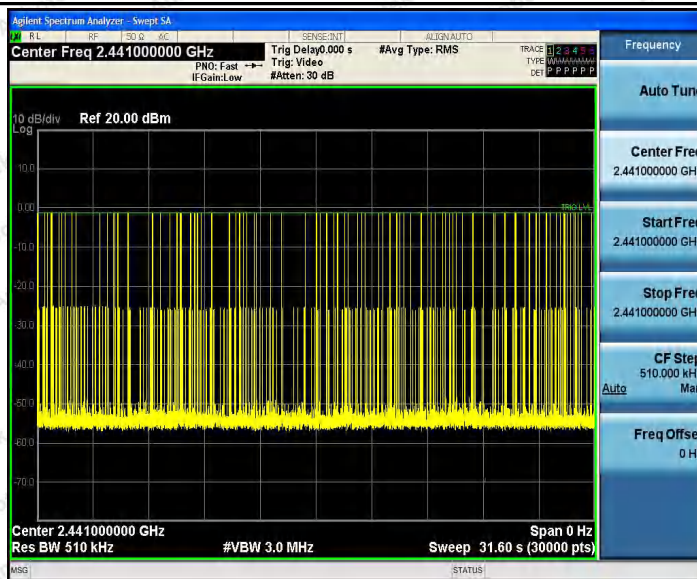


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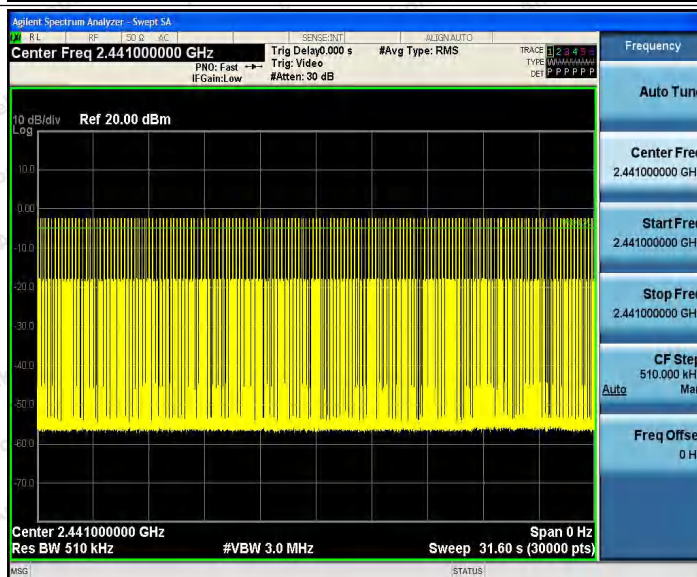
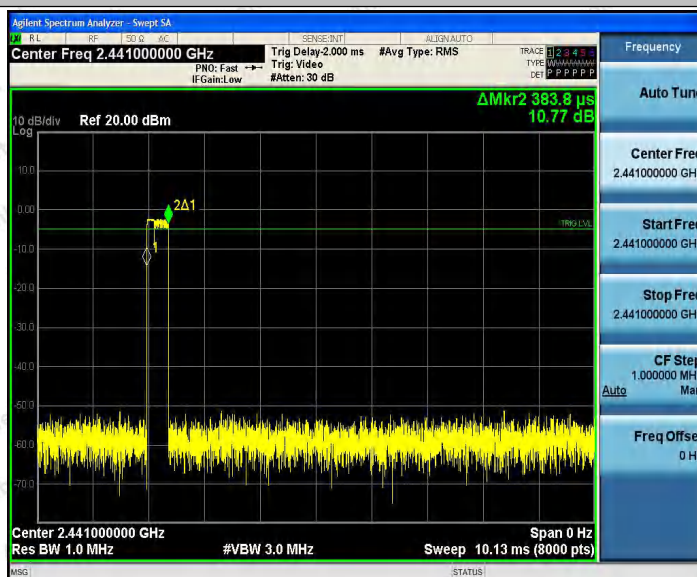
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2DH1_Ant1_Hop



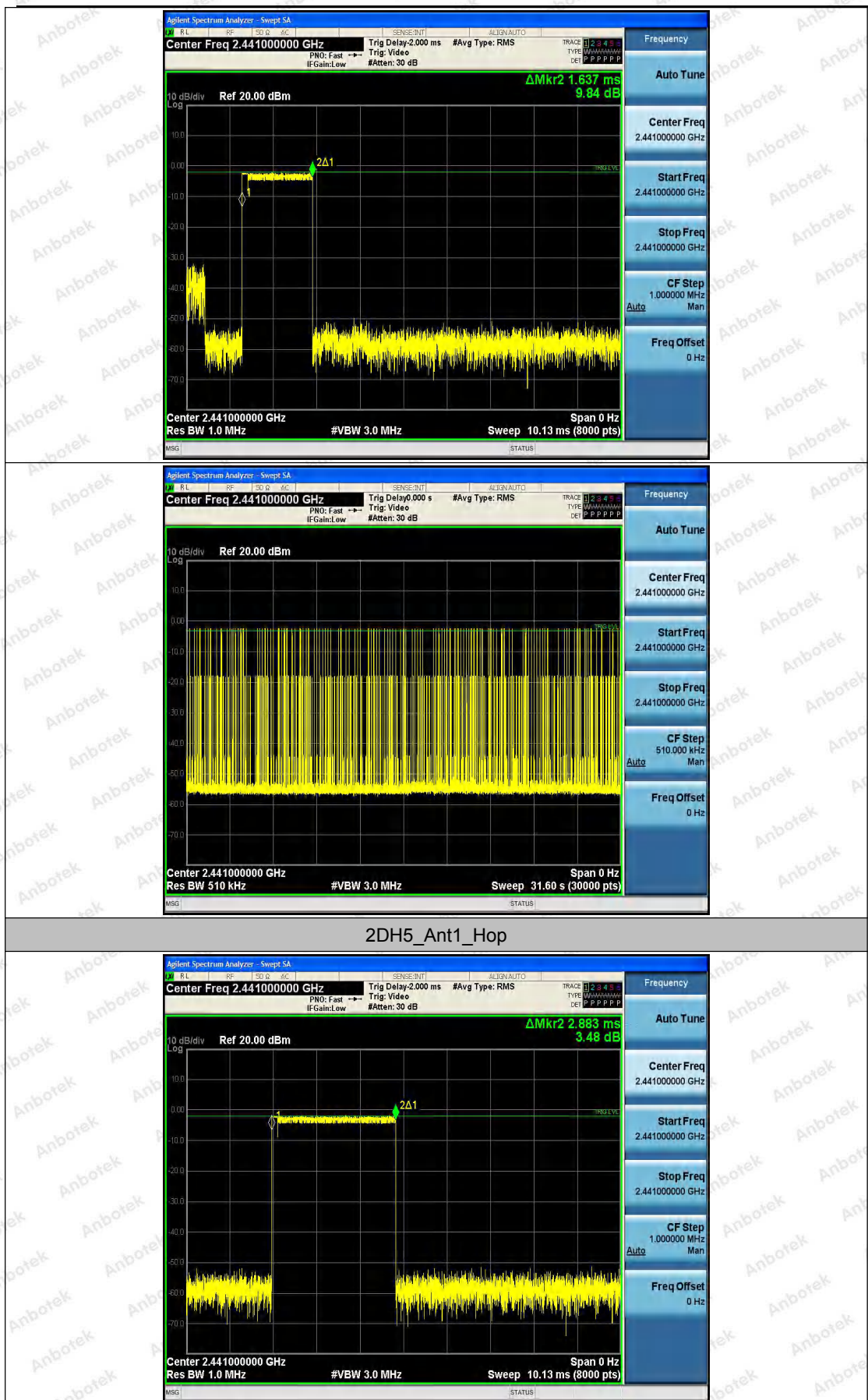
2DH3_Ant1_Hop

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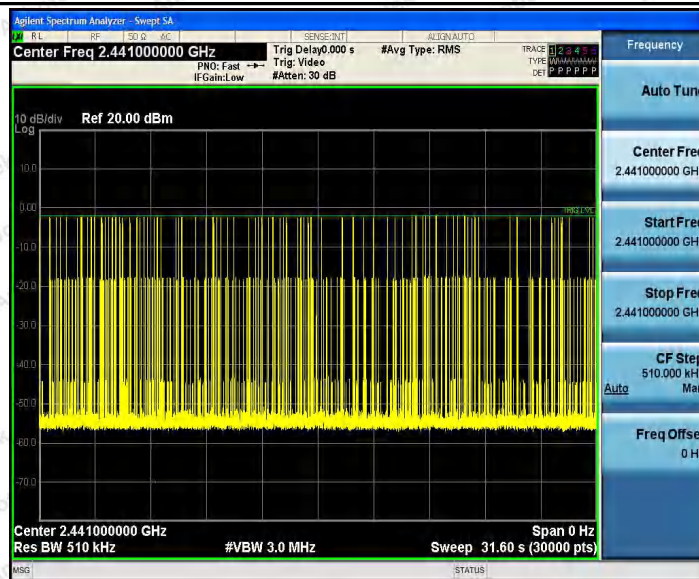
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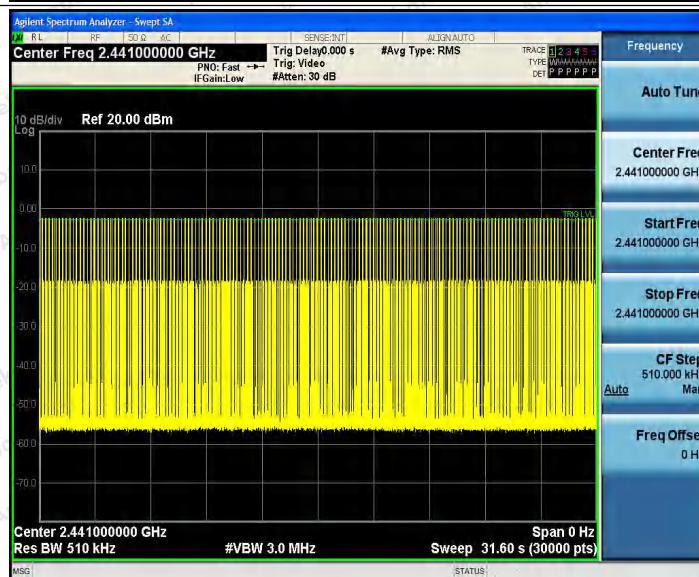
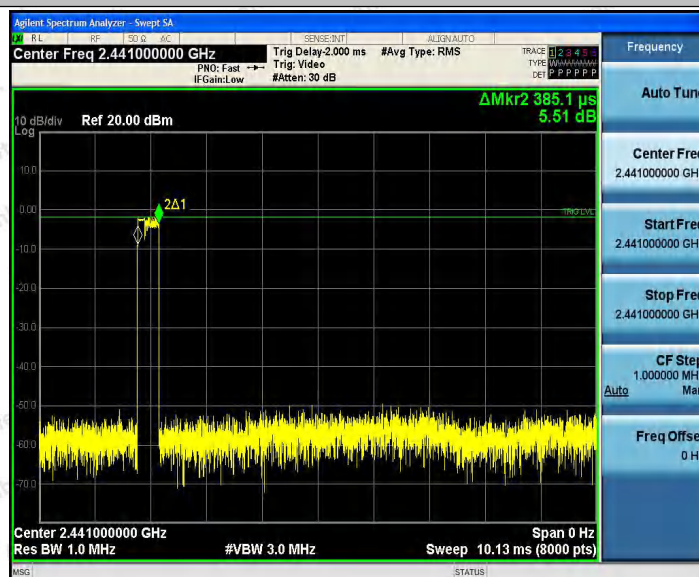
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



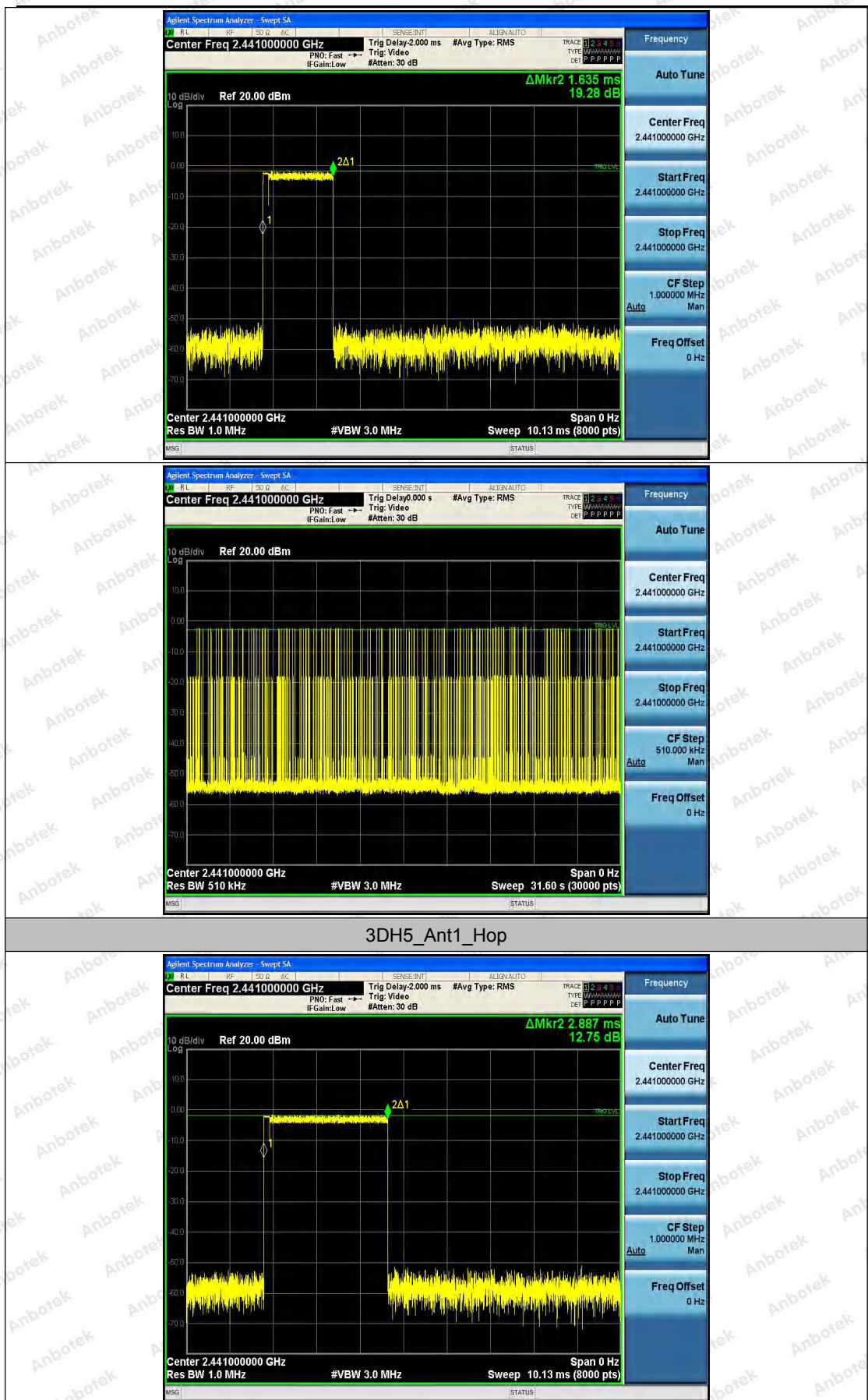
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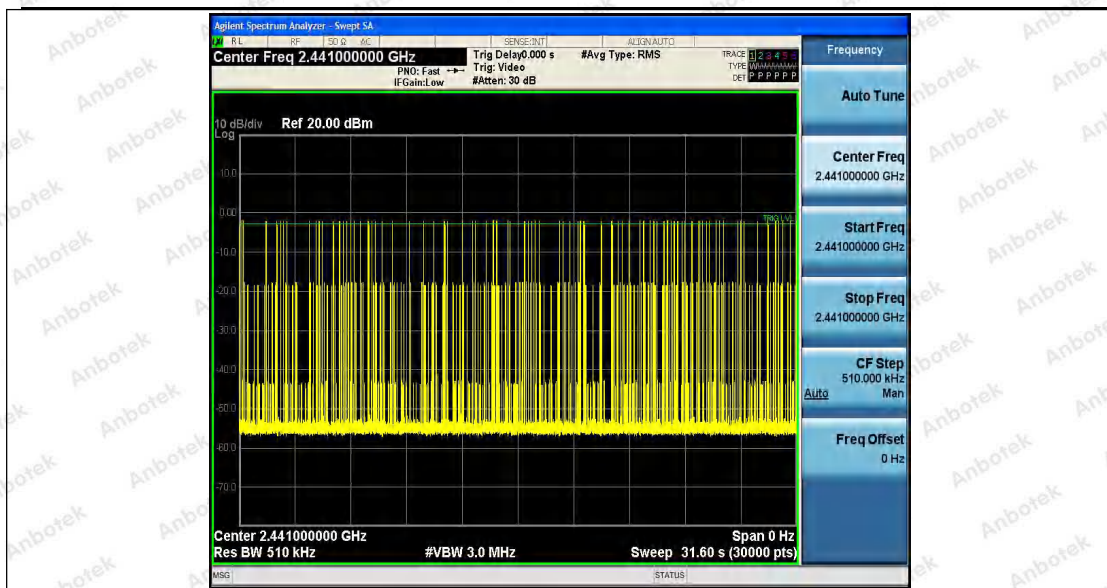
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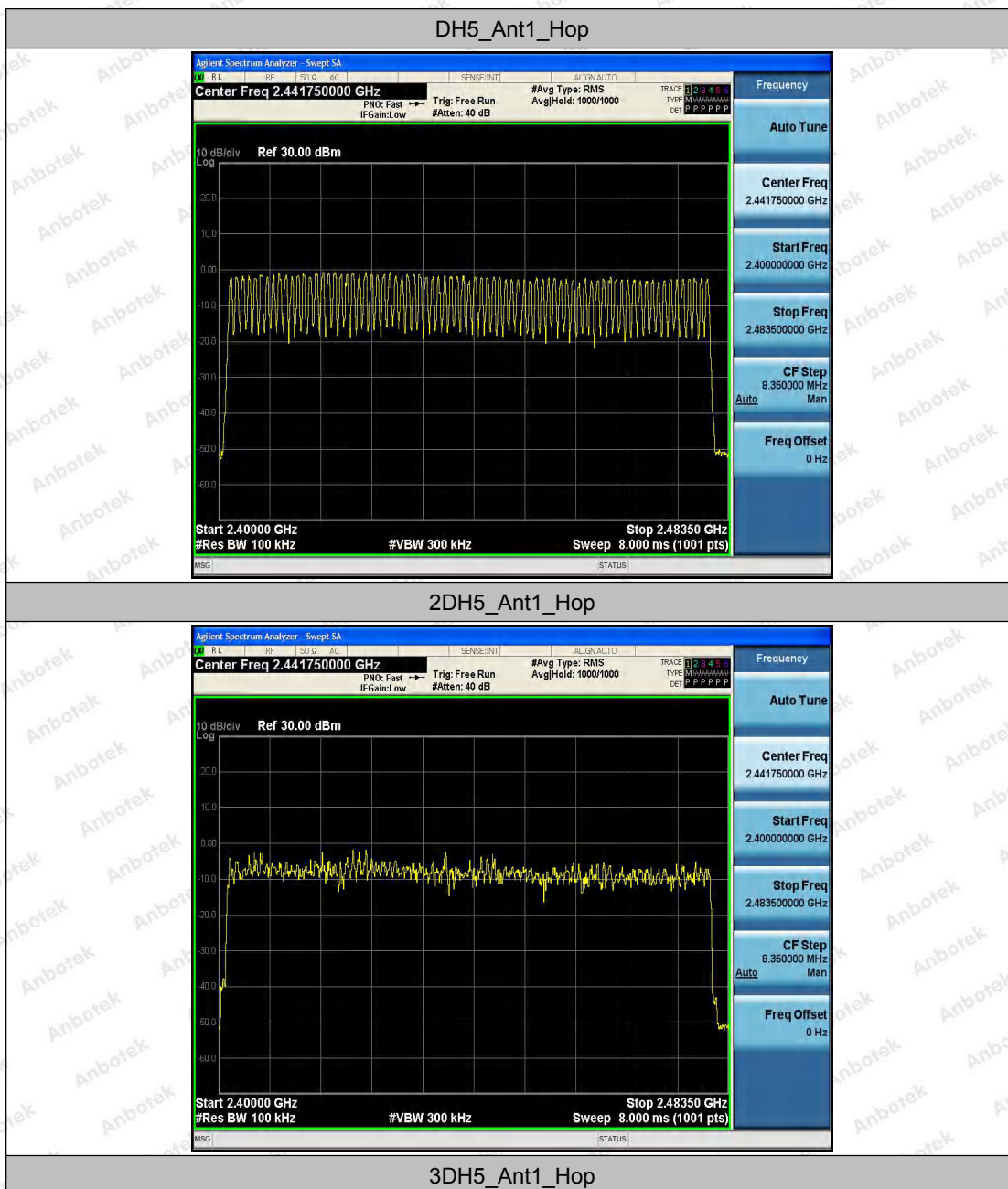
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Appendix F: Number of hopping channels

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

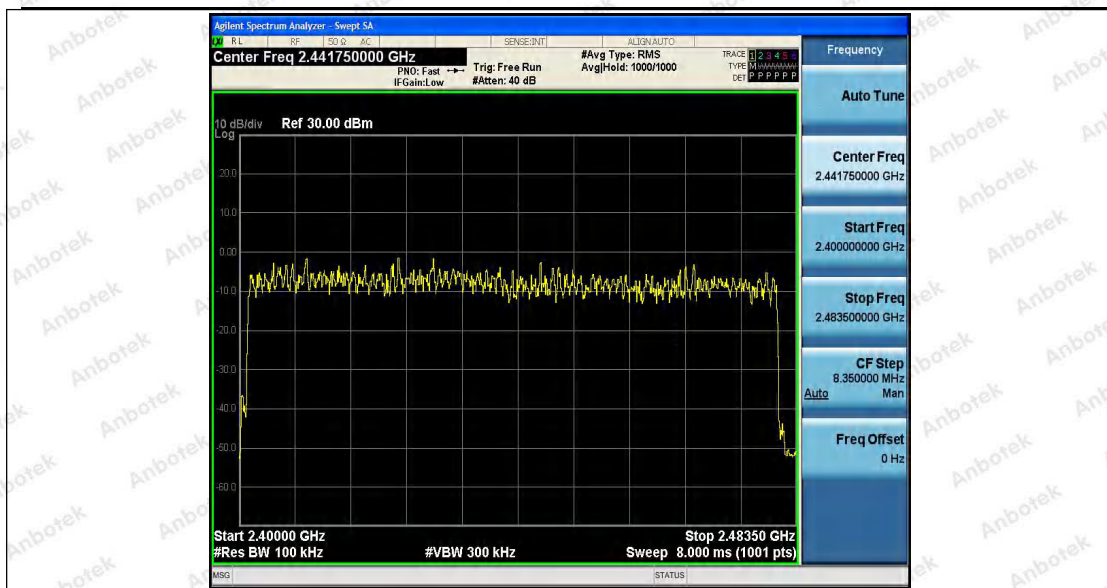


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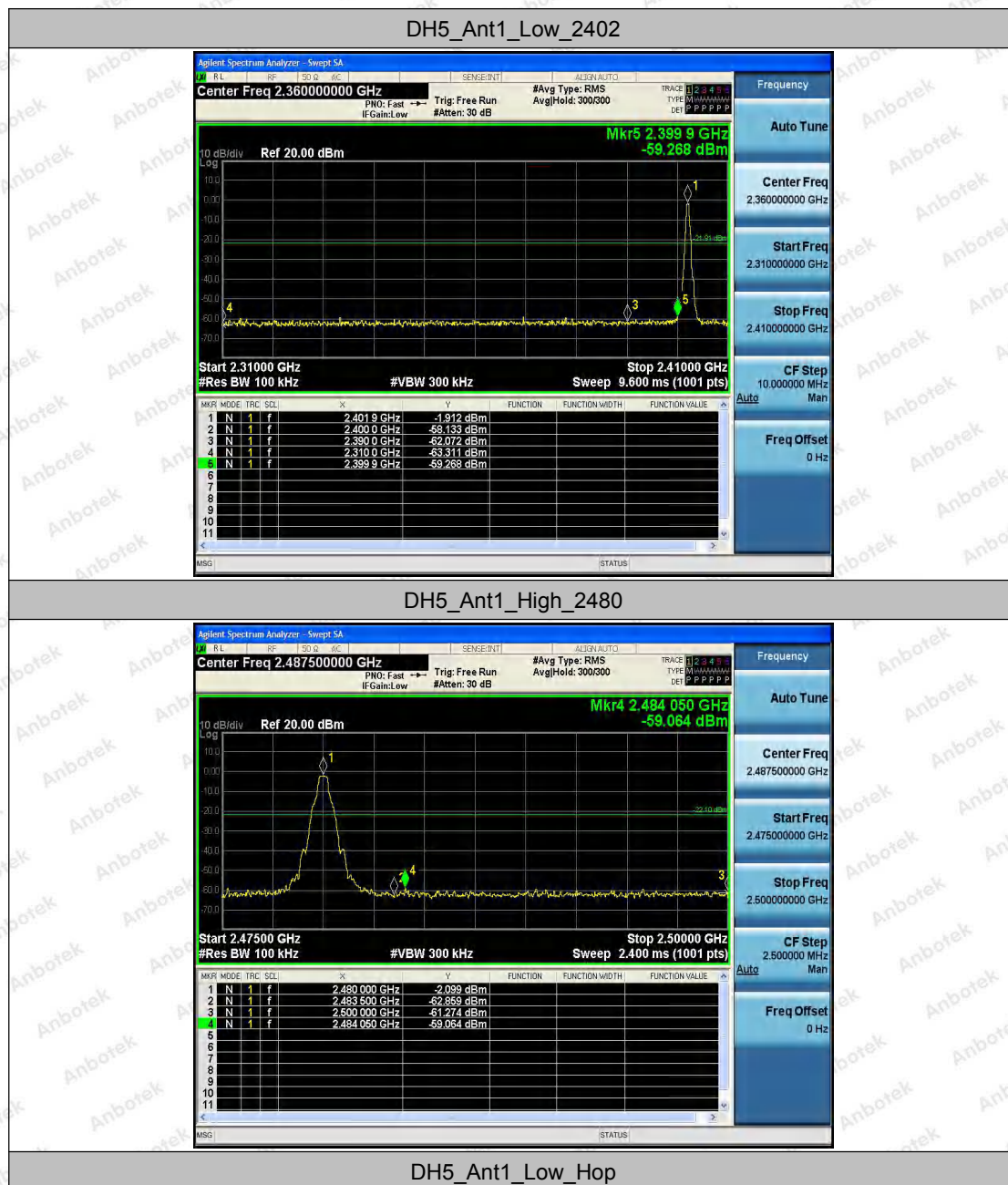
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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.91	-59.27	≤ -21.91	PASS
		High	2480	-2.10	-59.06	≤ -22.1	PASS
		Low	Hop	-1.41	-59.14	≤ -21.41	PASS
		High	Hop	-2.60	-61.6	≤ -22.6	PASS
2DH5	Ant1	Low	2402	-2.60	-58.95	≤ -22.6	PASS
		High	2480	-3.71	-59.29	≤ -23.71	PASS
		Low	Hop	-5.69	-59.36	≤ -25.69	PASS
		High	Hop	-6.91	-62.74	≤ -26.91	PASS
3DH5	Ant1	Low	2402	-2.93	-56.52	≤ -22.93	PASS
		High	2480	-3.14	-59.58	≤ -23.14	PASS
		Low	Hop	-5.00	-56.83	≤ -25	PASS
		High	Hop	-7.43	-62.38	≤ -27.43	PASS

Test Graphs

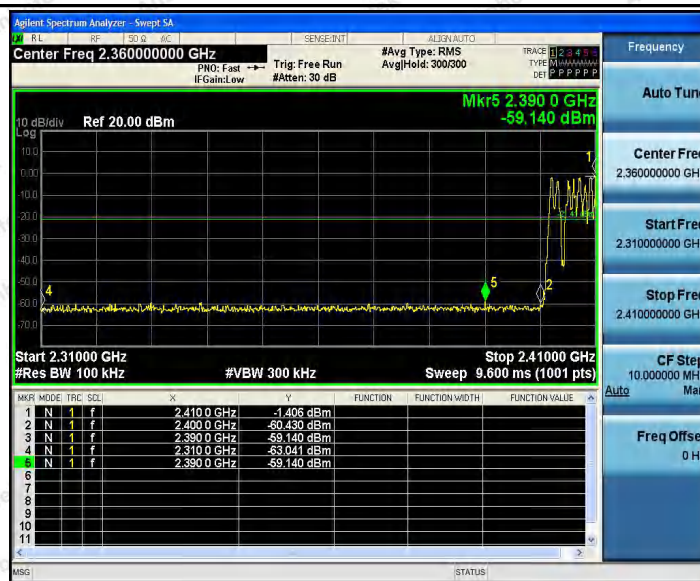


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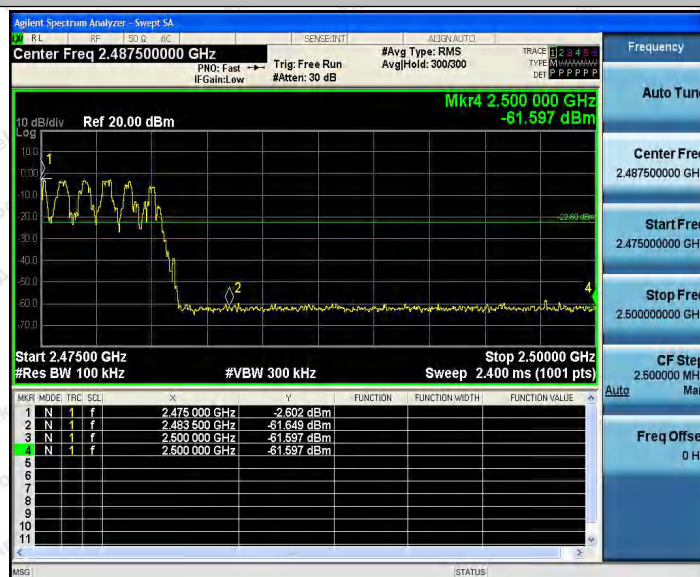
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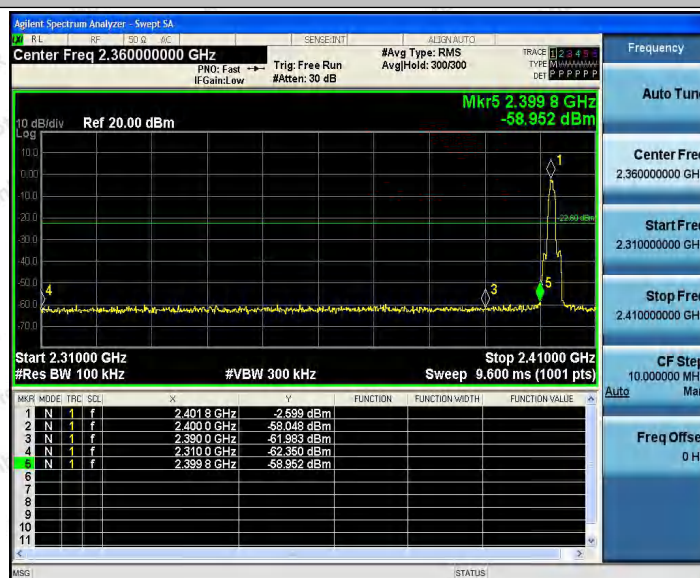
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



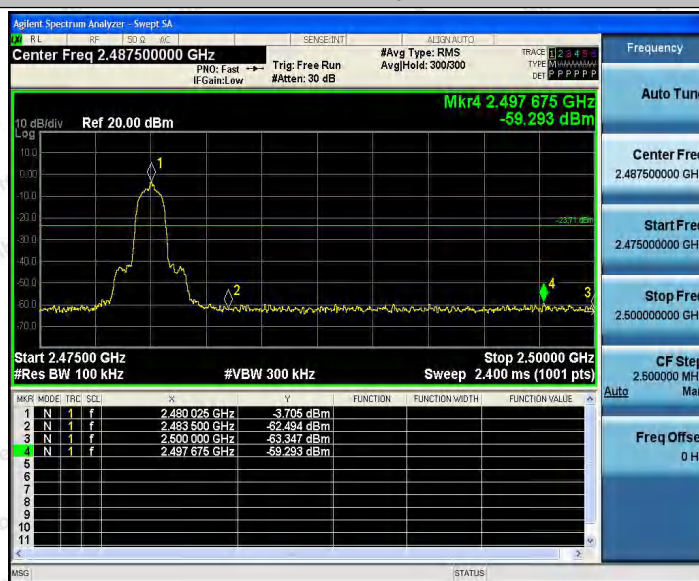
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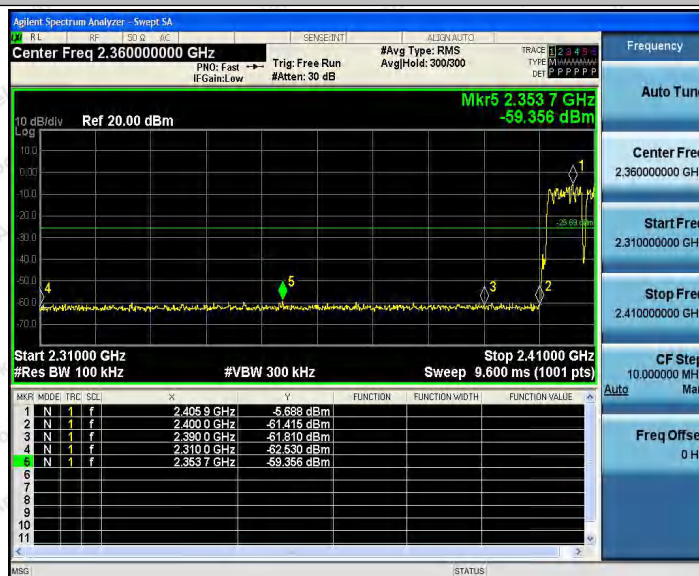
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



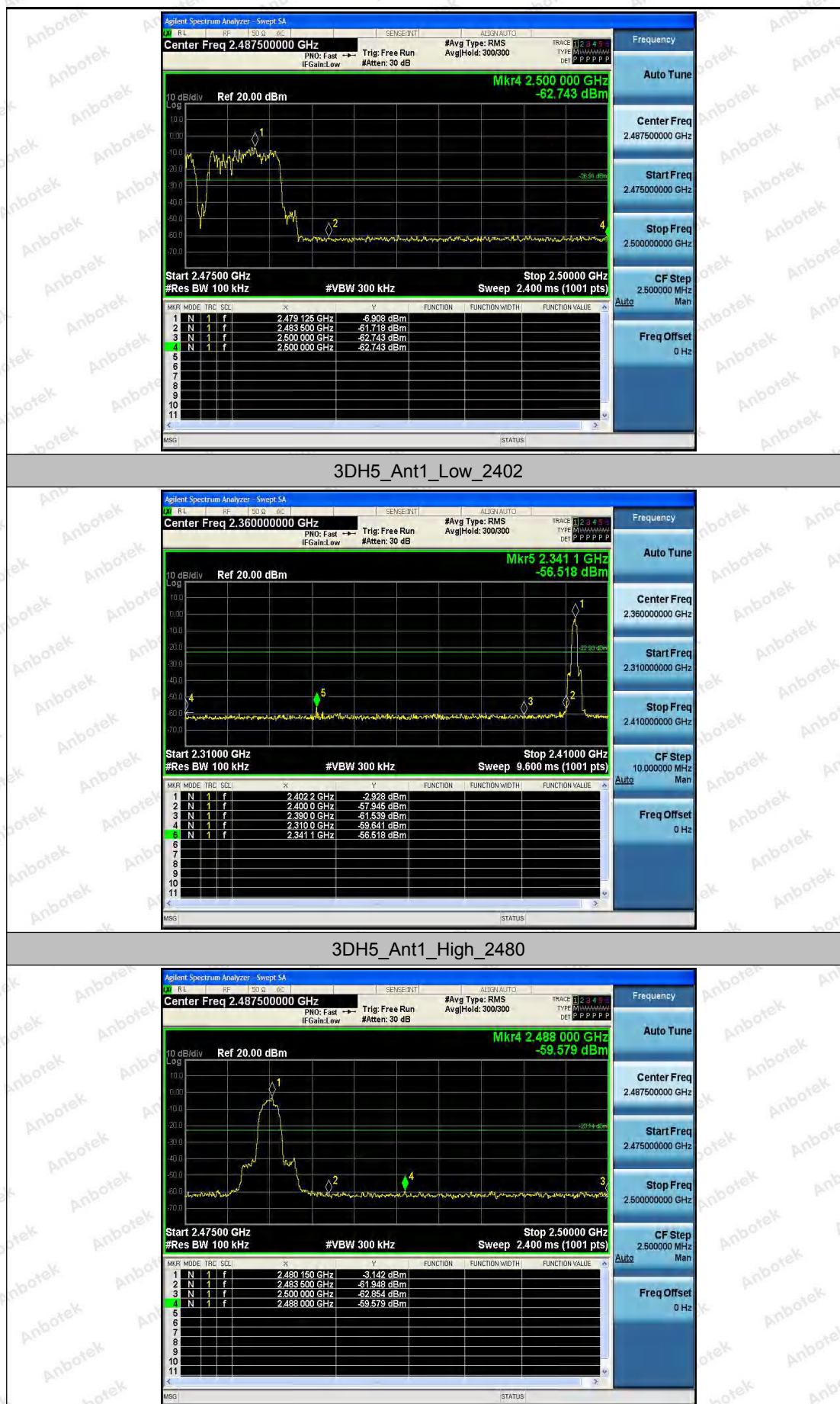
2DH5_Ant1_High_Hop

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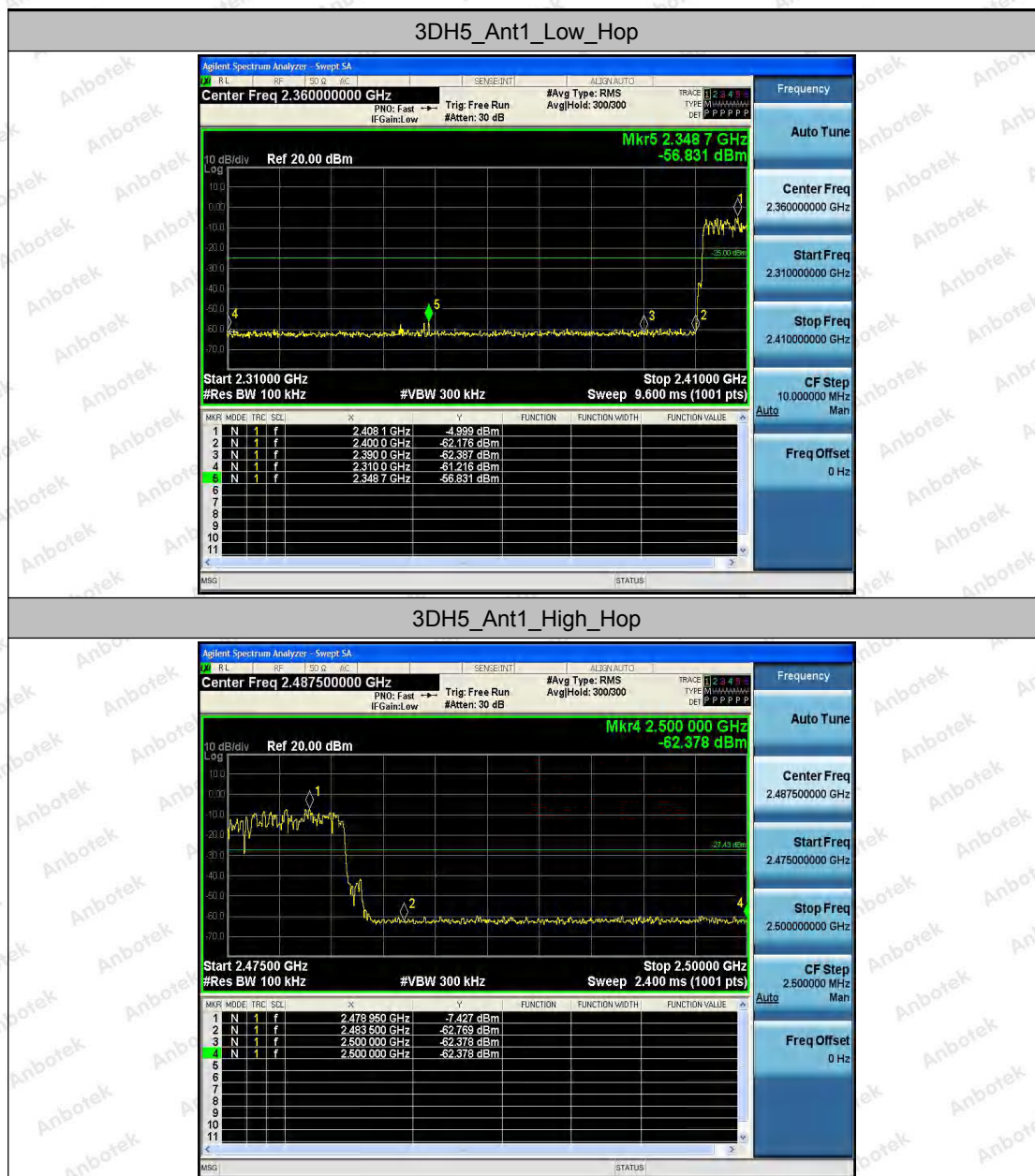


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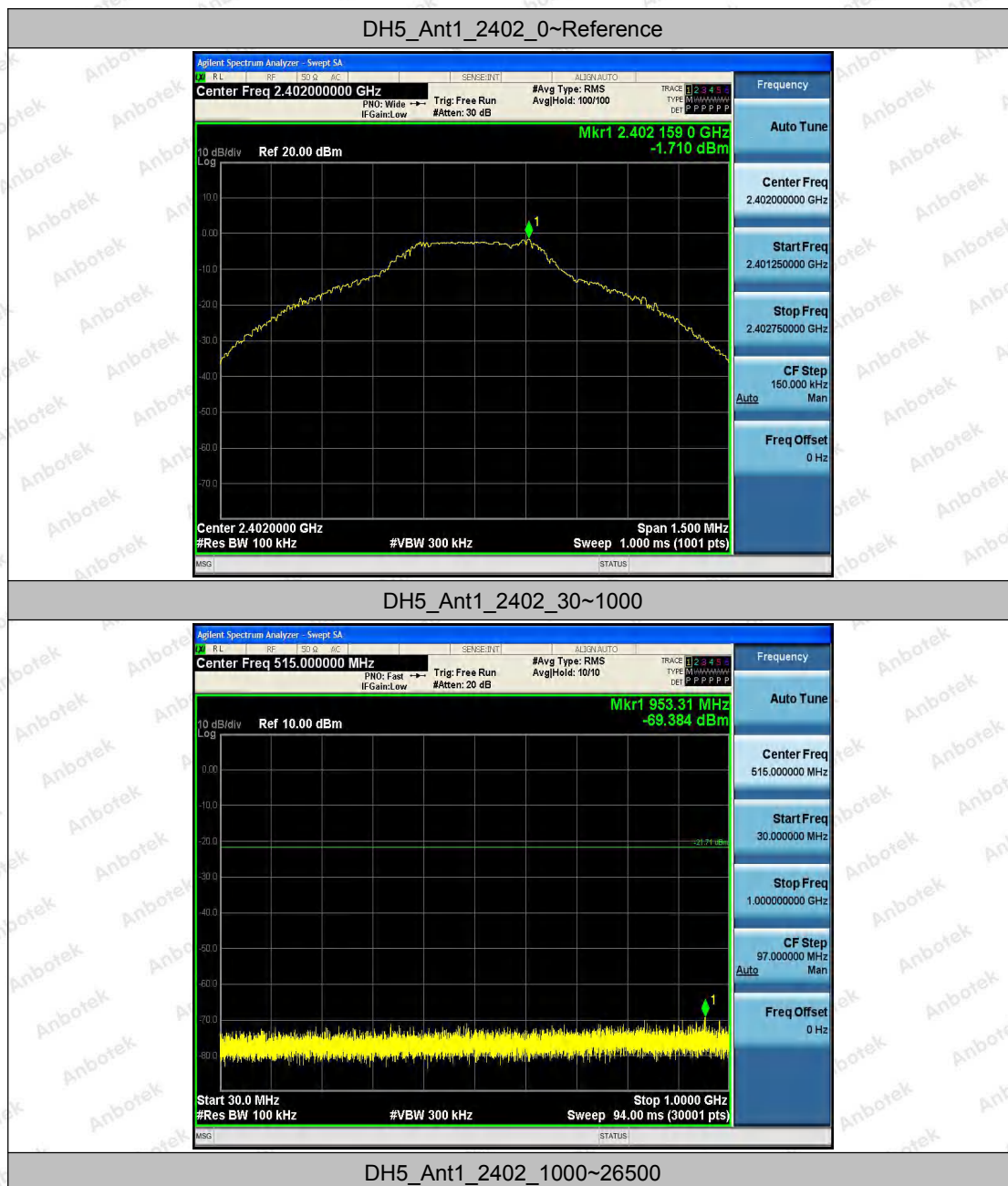


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.38	≤-21.71	PASS
			1000~26500	-1.71	-42.99	≤-21.71	PASS
		2441	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-70.84	≤-21.63	PASS
			1000~26500	-1.63	-47.62	≤-21.63	PASS
		2480	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-69.84	≤-22.59	PASS
			1000~26500	-2.59	-48.61	≤-22.59	PASS
2DH5	Ant1	2402	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-68.52	≤-22.78	PASS
			1000~26500	-2.78	-45.98	≤-22.78	PASS
		2441	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-69.61	≤-22.78	PASS
			1000~26500	-2.78	-52.01	≤-22.78	PASS
		2480	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-69.57	≤-23.64	PASS
			1000~26500	-3.64	-52.73	≤-23.64	PASS
3DH5	Ant1	2402	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-70.05	≤-22.92	PASS
			1000~26500	-2.92	-47.25	≤-22.92	PASS
		2441	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-69.7	≤-22.41	PASS
			1000~26500	-2.41	-49.73	≤-22.41	PASS
		2480	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-70.14	≤-23.66	PASS
			1000~26500	-3.66	-51.88	≤-23.66	PASS

Test Graphs



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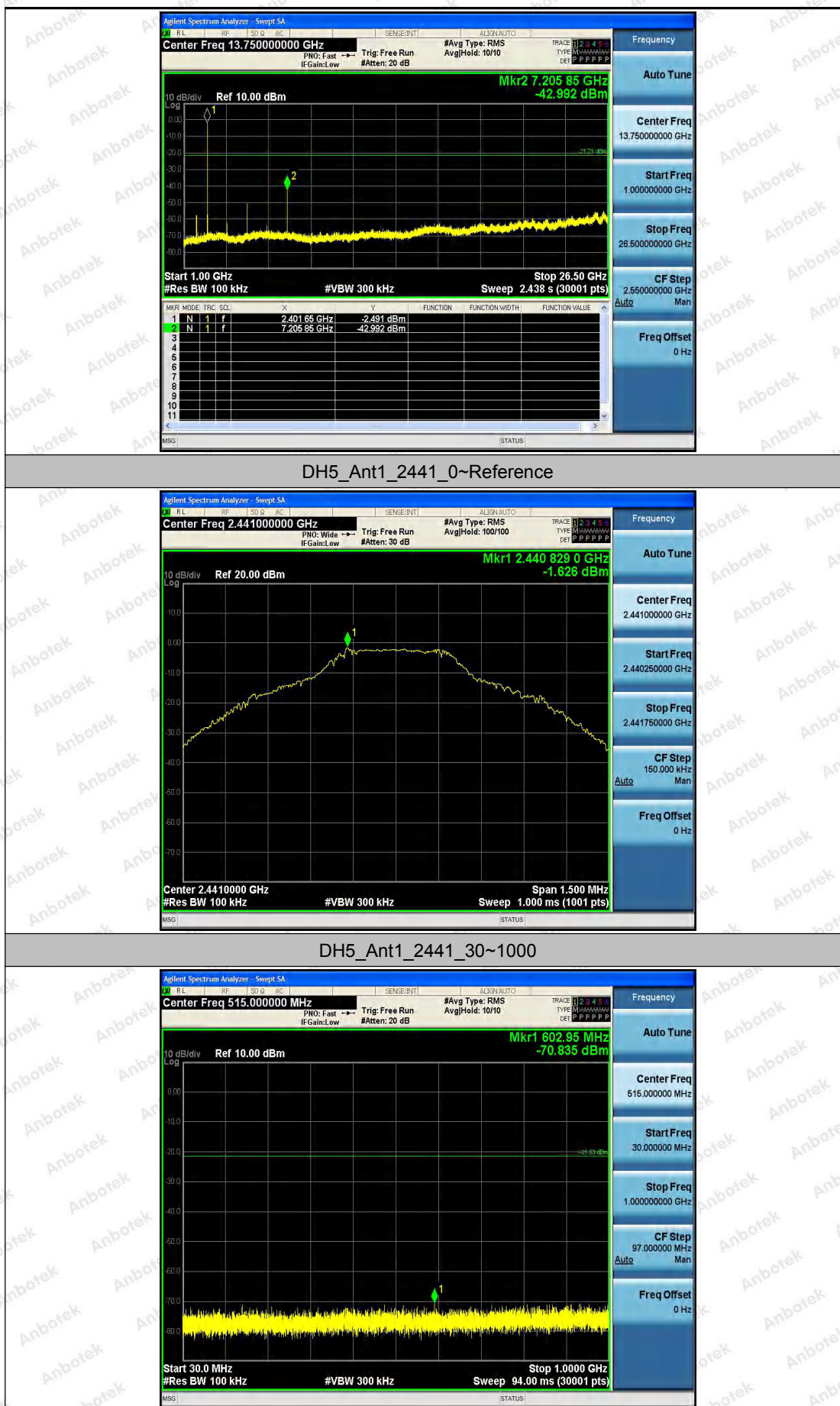
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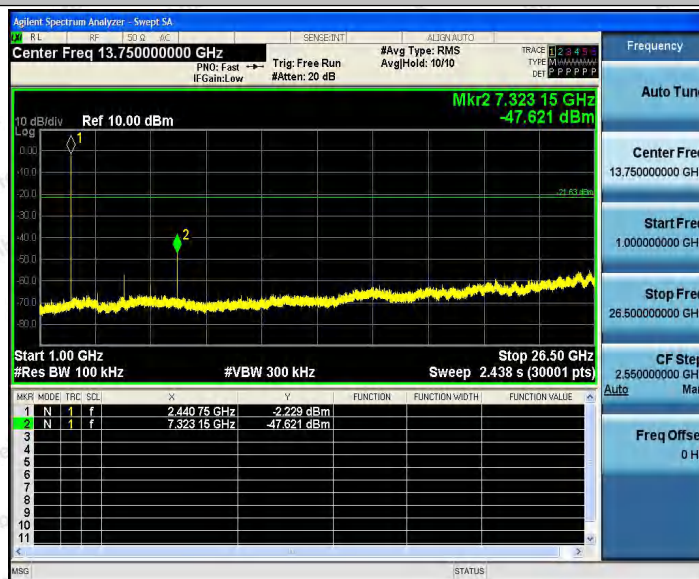
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



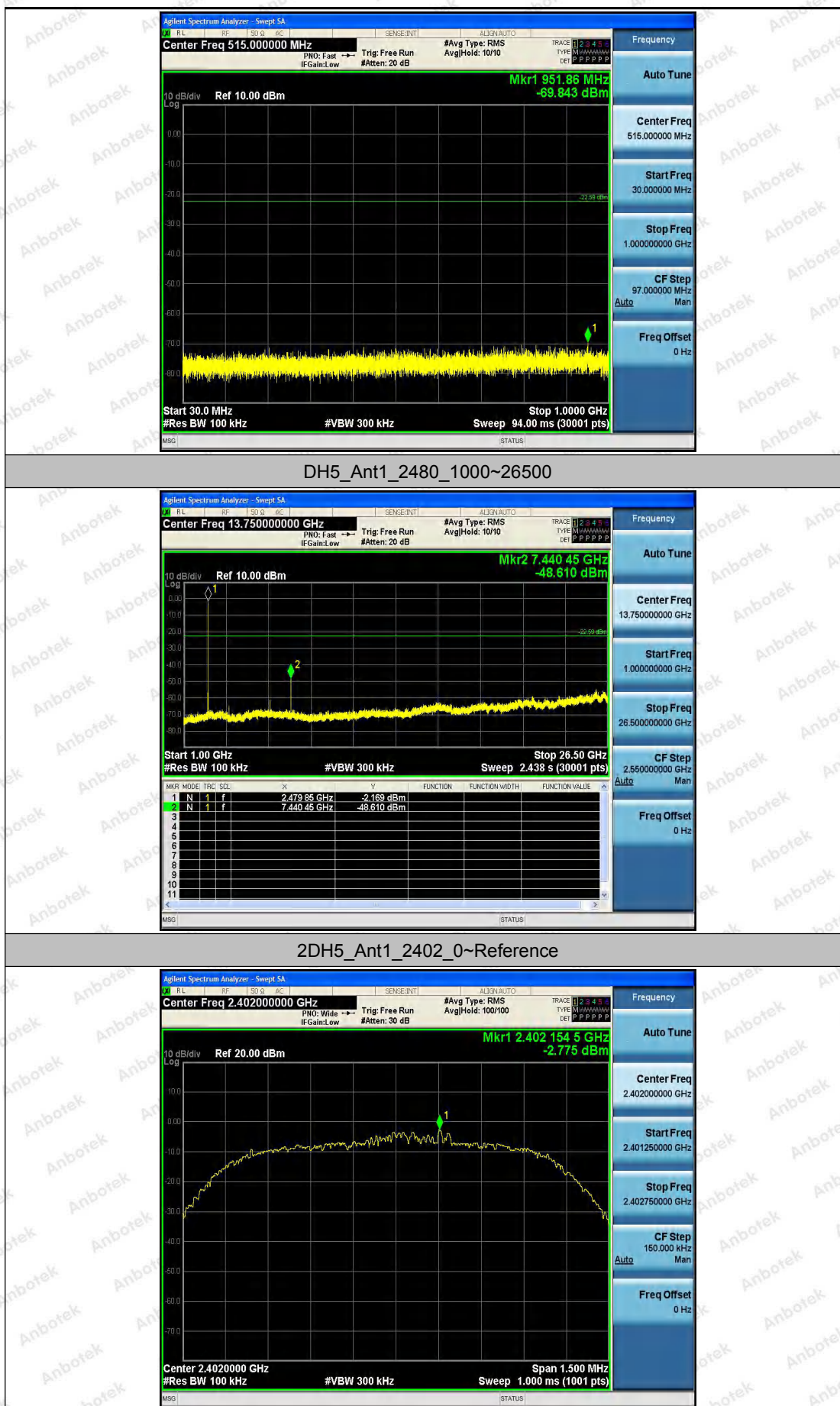
DH5_Ant1_2480_30~1000

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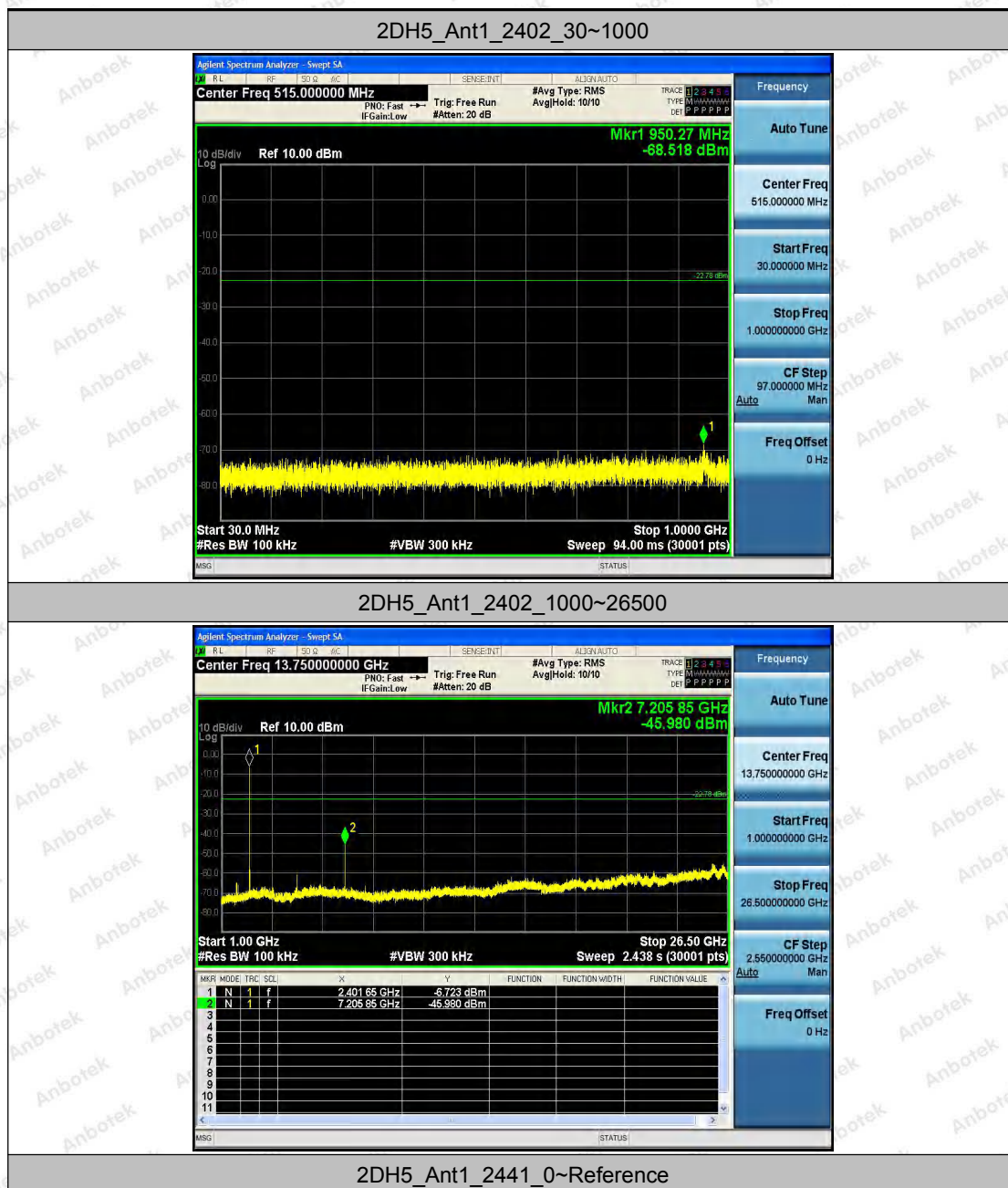


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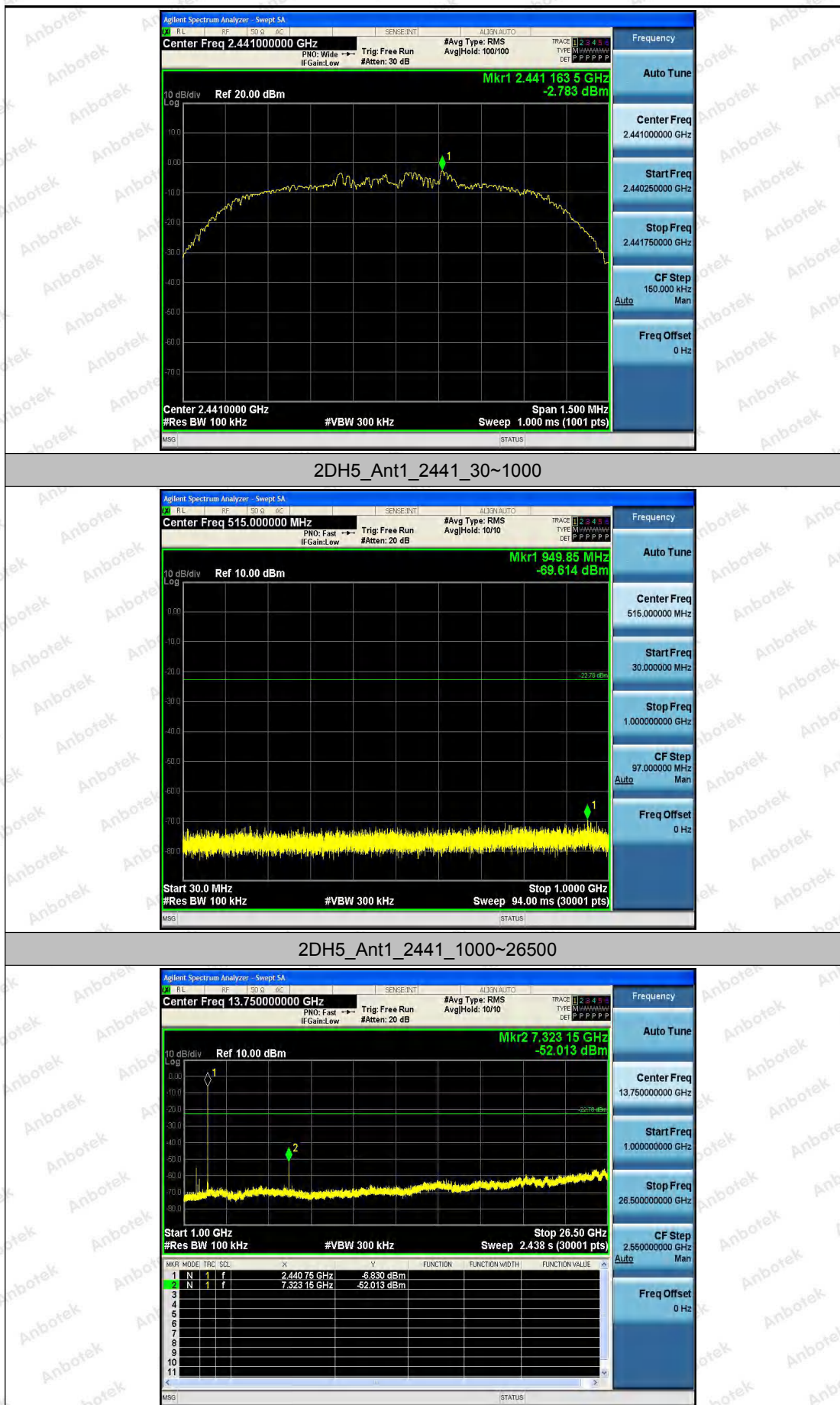


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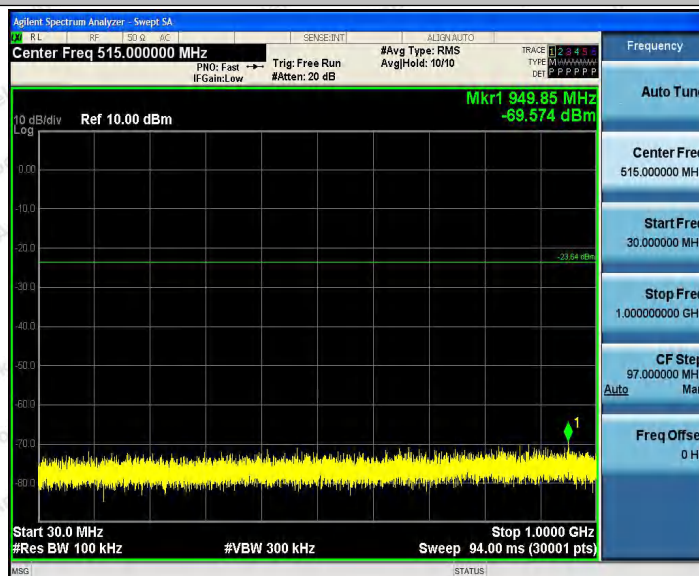
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



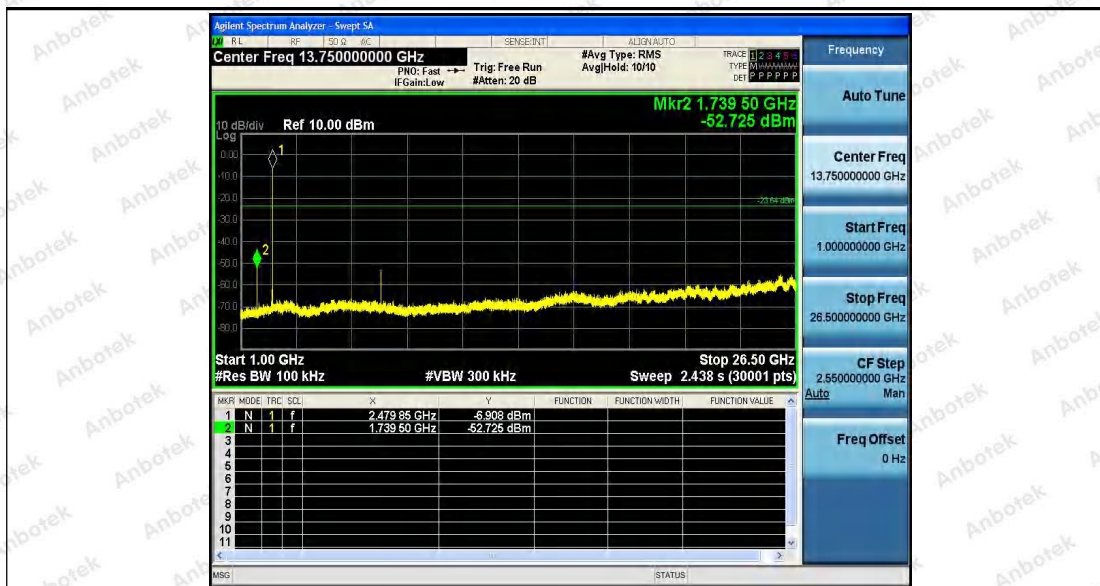
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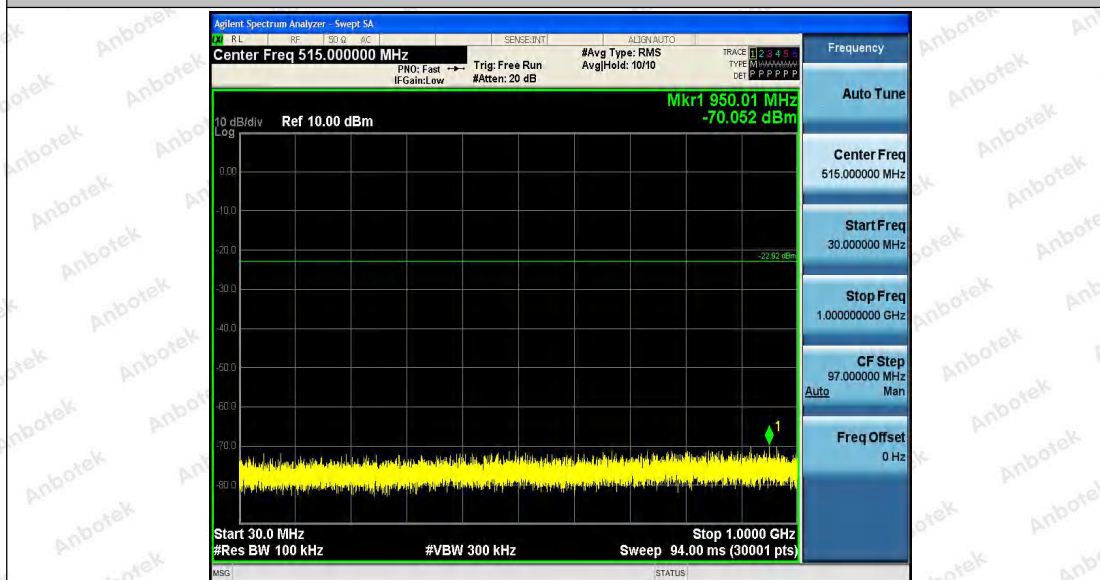
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3DH5_Ant1_2402_0~Reference



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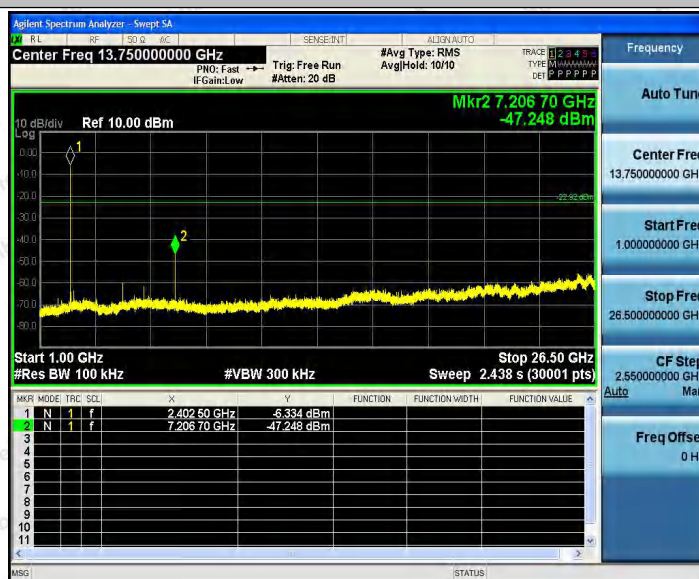
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



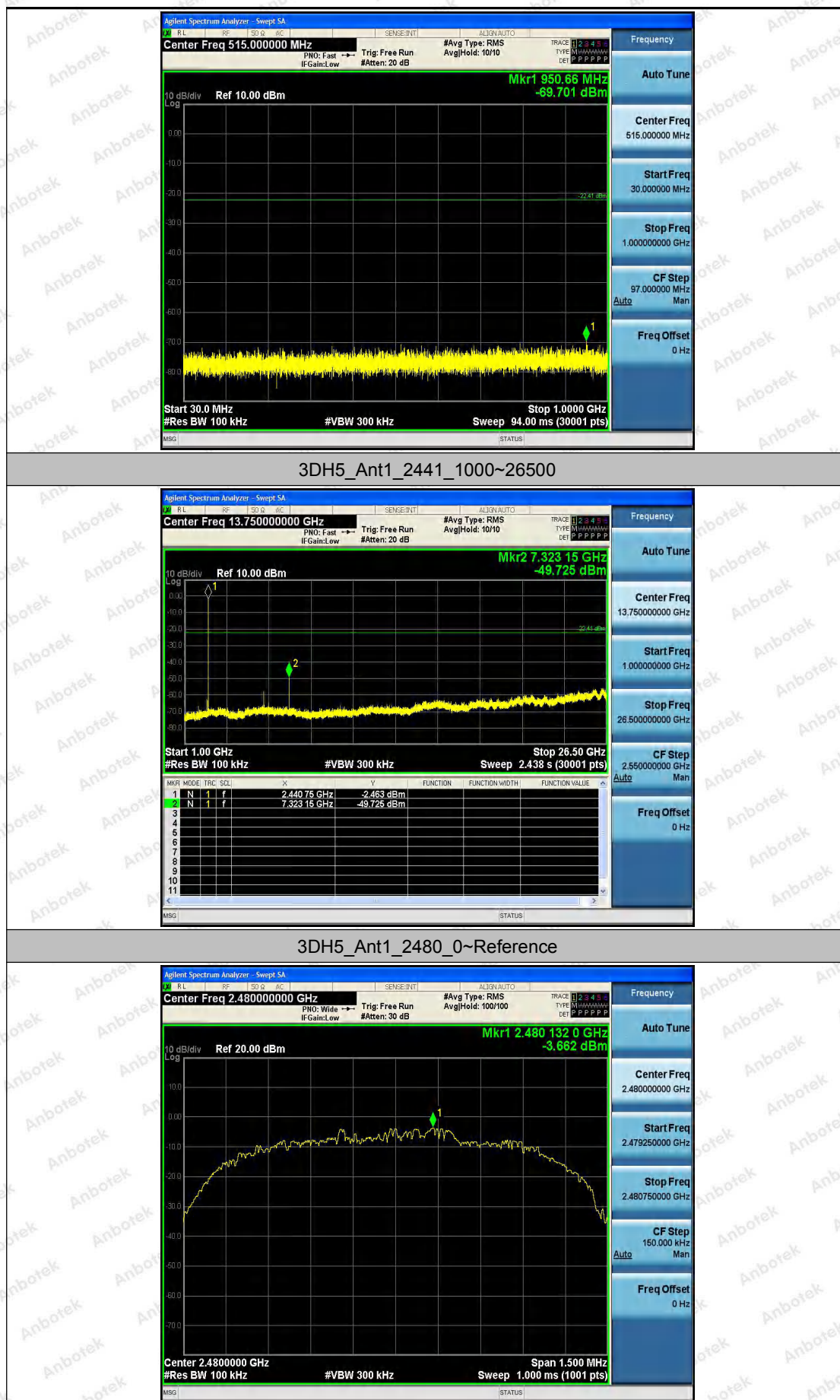
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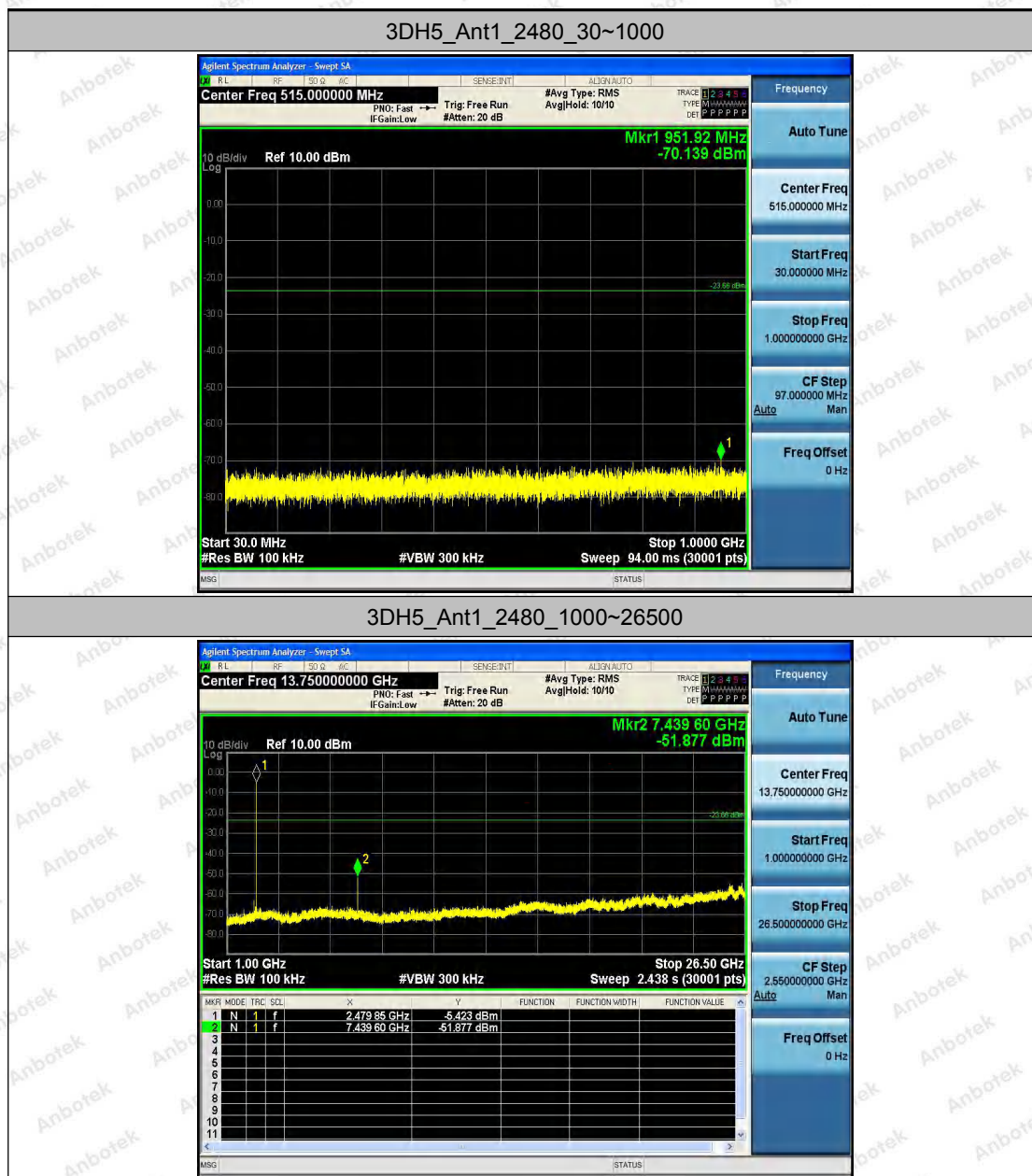


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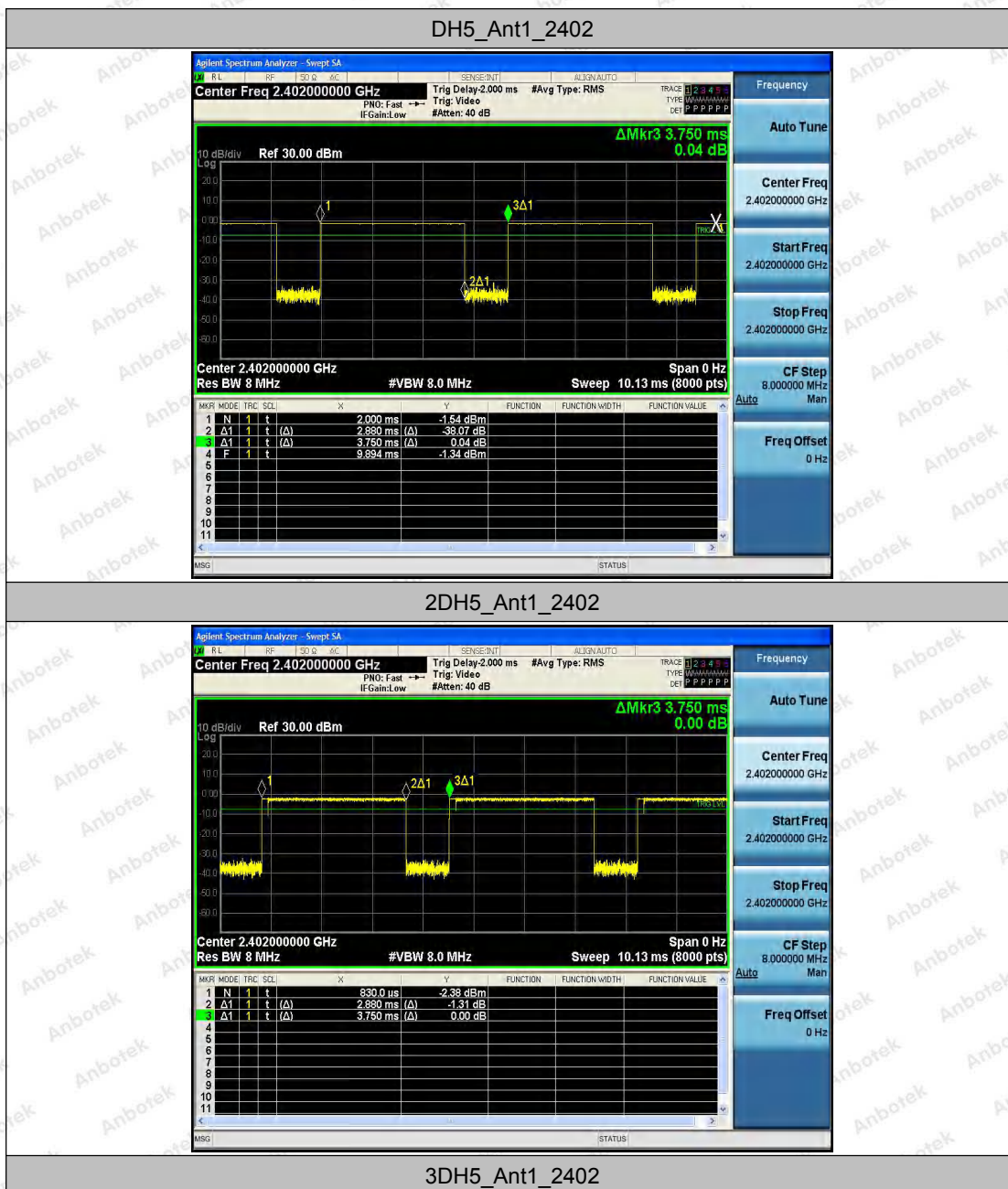
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Appendix I: Duty Cycle

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	2.88	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

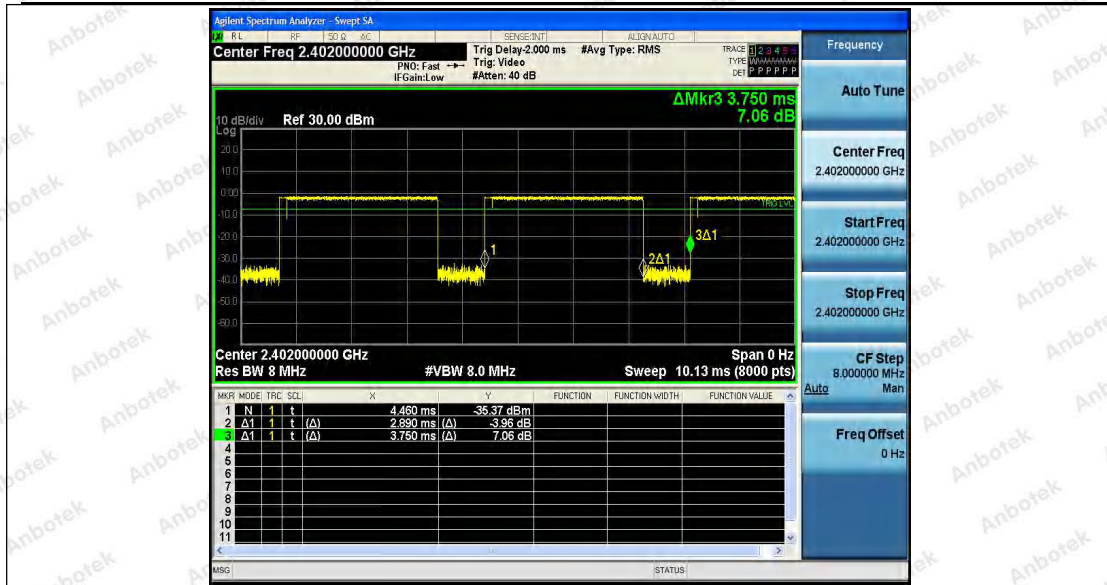


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