

Appendix Test Data

Report No.:	18220WC10216501	Test Date:	2021.10.12
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	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	0.948	2401.589	2402.537	---	PASS
		2441	0.945	2440.589	2441.534	---	PASS
		2480	0.945	2479.589	2480.534	---	PASS
2DH5	Ant1	2402	1.317	2401.391	2402.708	---	PASS
		2441	1.257	2440.421	2441.678	---	PASS
		2480	1.317	2479.394	2480.711	---	PASS
3DH5	Ant1	2402	1.302	2401.400	2402.702	---	PASS
		2441	1.260	2440.409	2441.669	---	PASS
		2480	1.260	2479.412	2480.672	---	PASS

Test Graphs

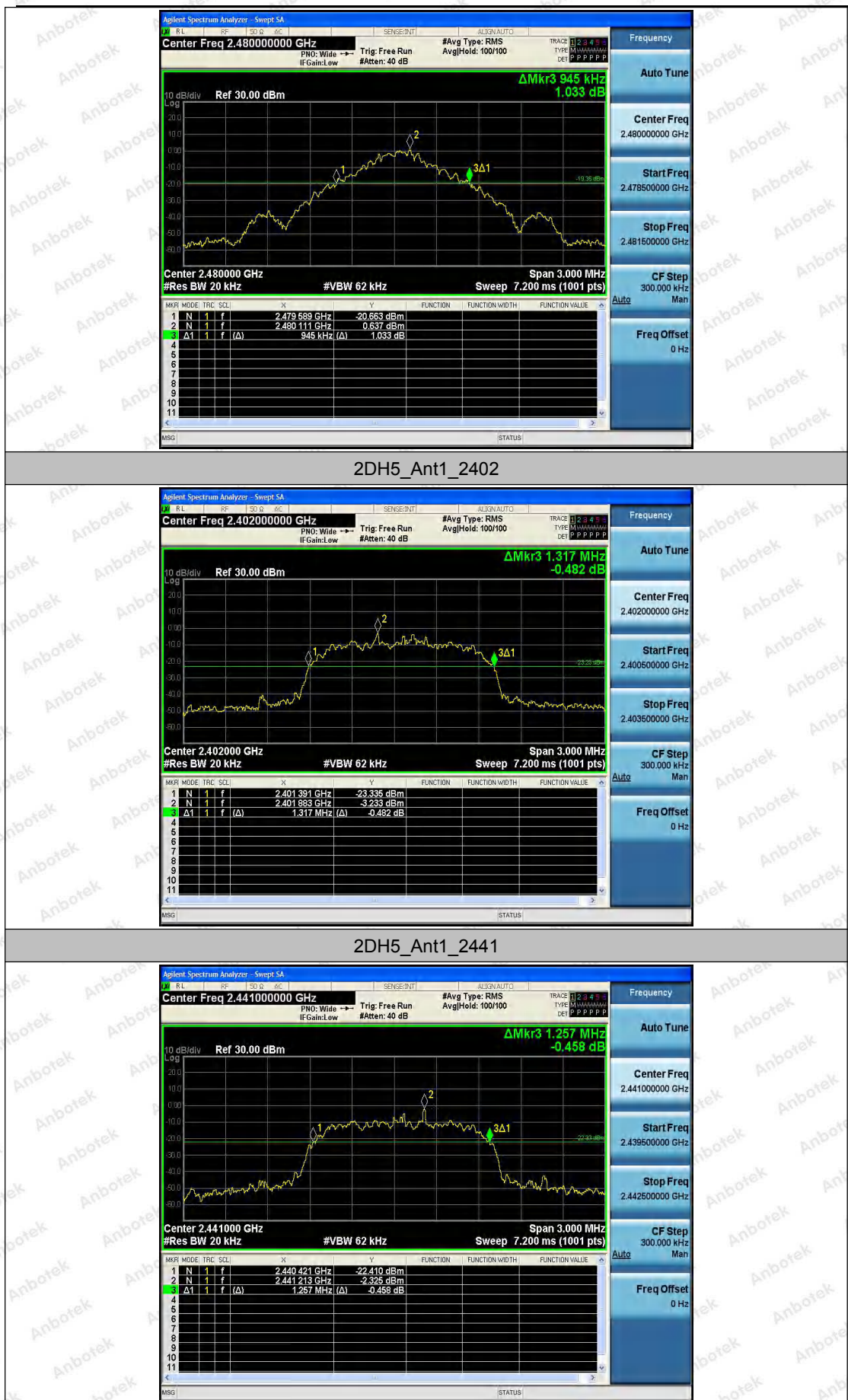
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



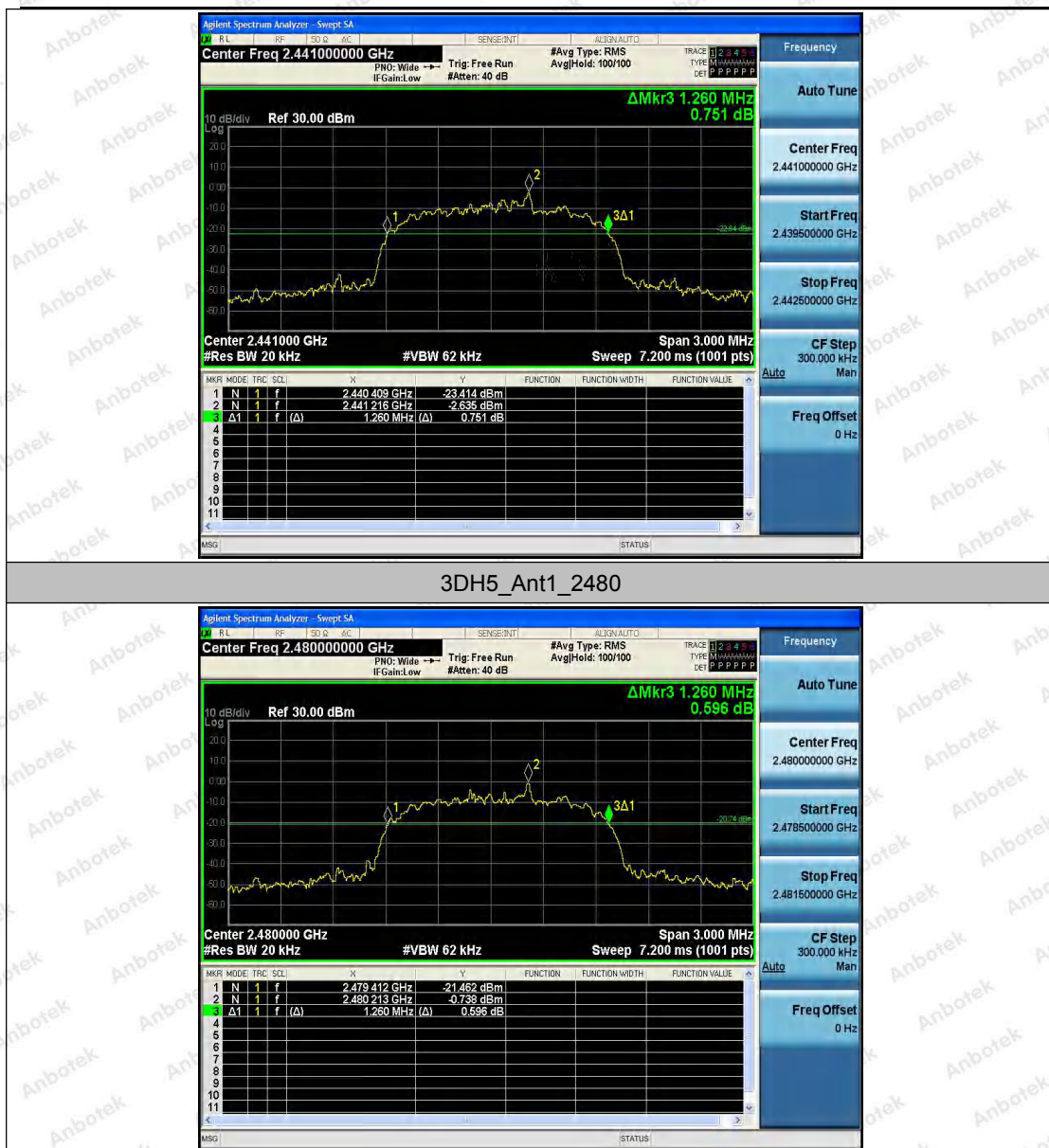
3DH5_Ant1_2441

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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	0.88514	2401.60 6	2402.492	---	PASS
		2441	0.88467	2440.60 9	2441.493	---	PASS
		2480	0.88622	2479.61 1	2480.497	---	PASS
2DH5	Ant1	2402	1.1860	2401.45 7	2402.643	---	PASS
		2441	1.1791	2440.46 1	2441.640	---	PASS
		2480	1.1767	2479.46 2	2480.639	---	PASS
3DH5	Ant1	2402	1.1883	2401.45 1	2402.640	---	PASS
		2441	1.1755	2440.46 0	2441.636	---	PASS
		2480	1.1799	2479.45 9	2480.639	---	PASS

Test Graphs

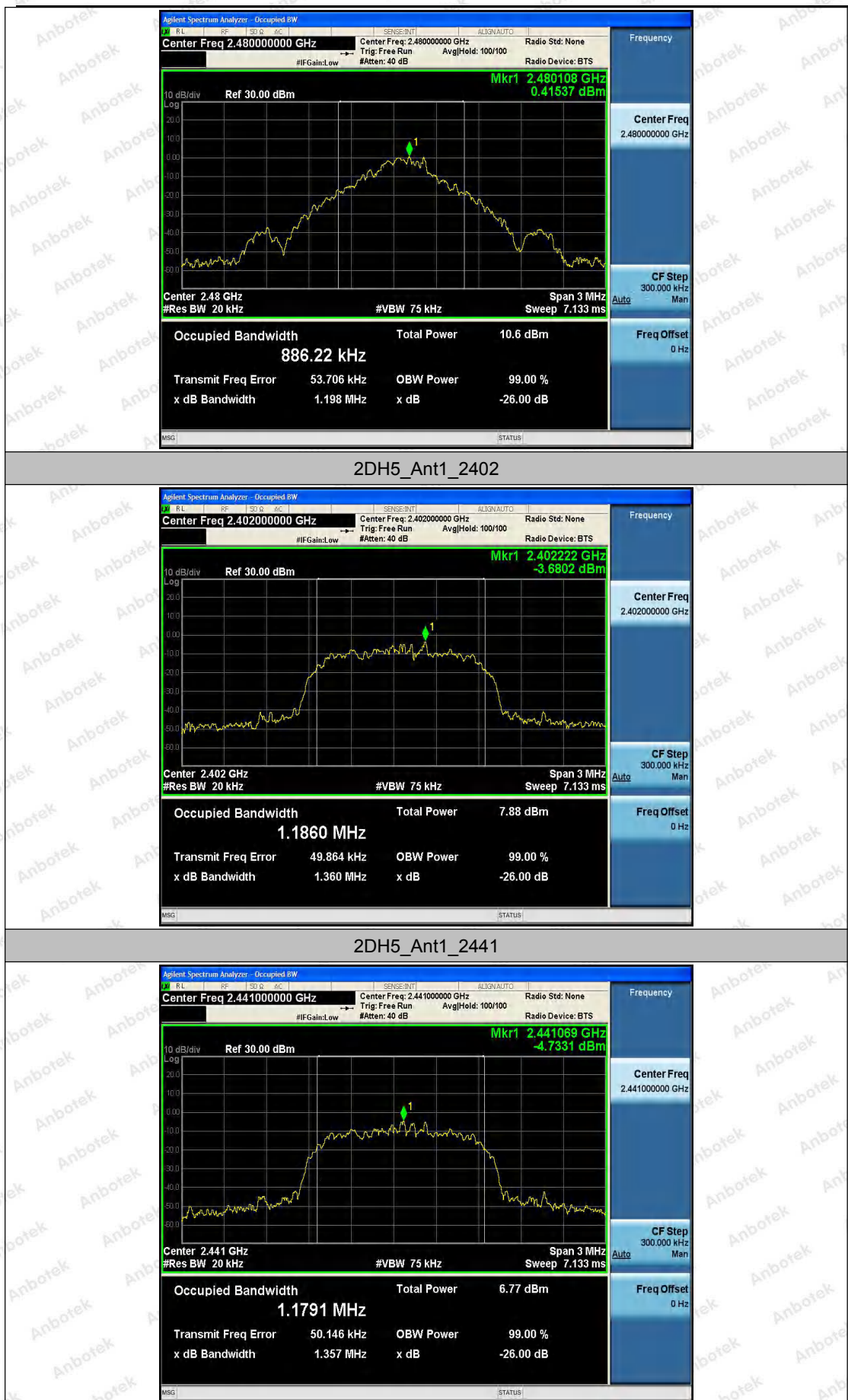


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2DH5_Ant1_2480



3DH5_Ant1_2402



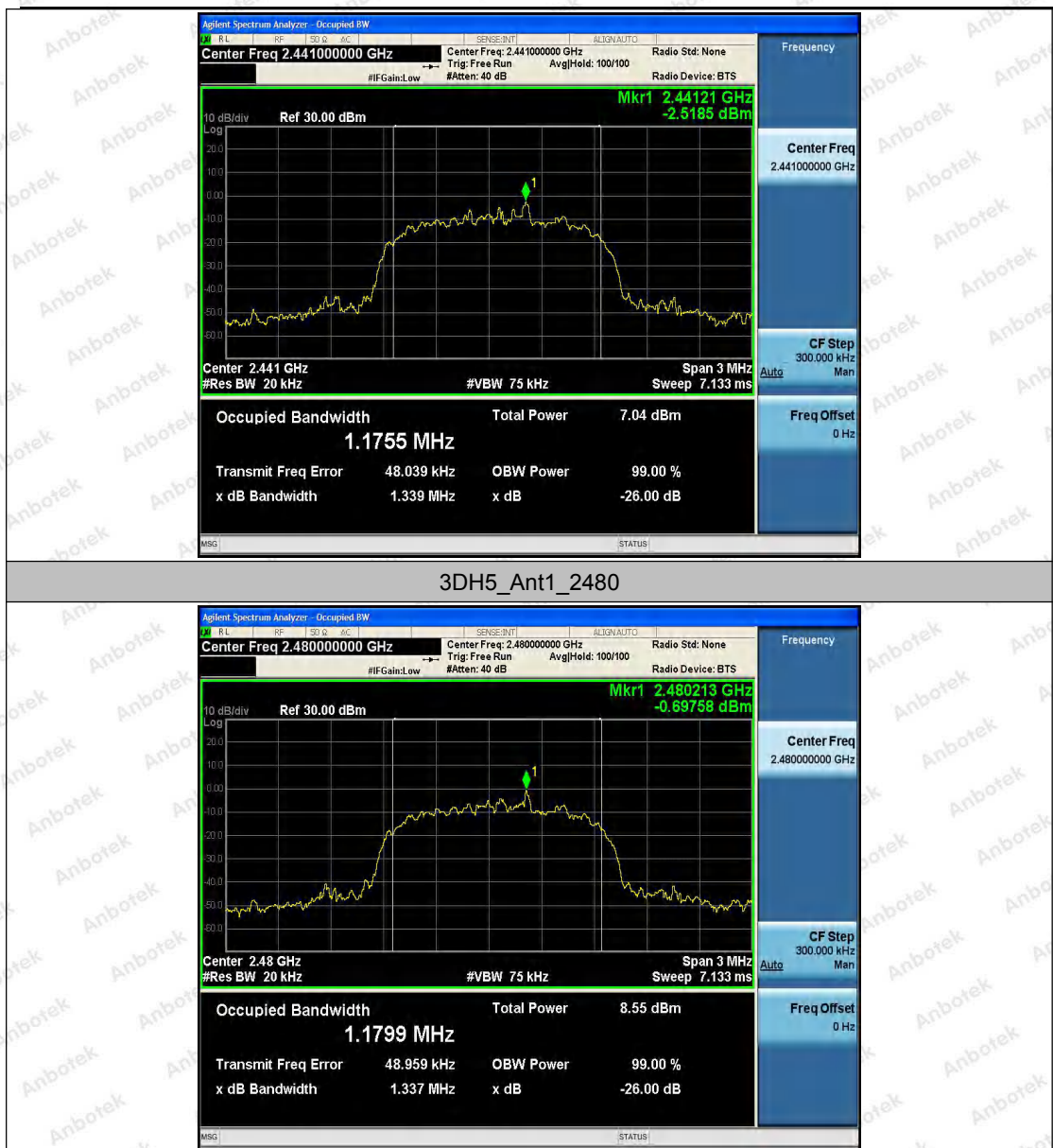
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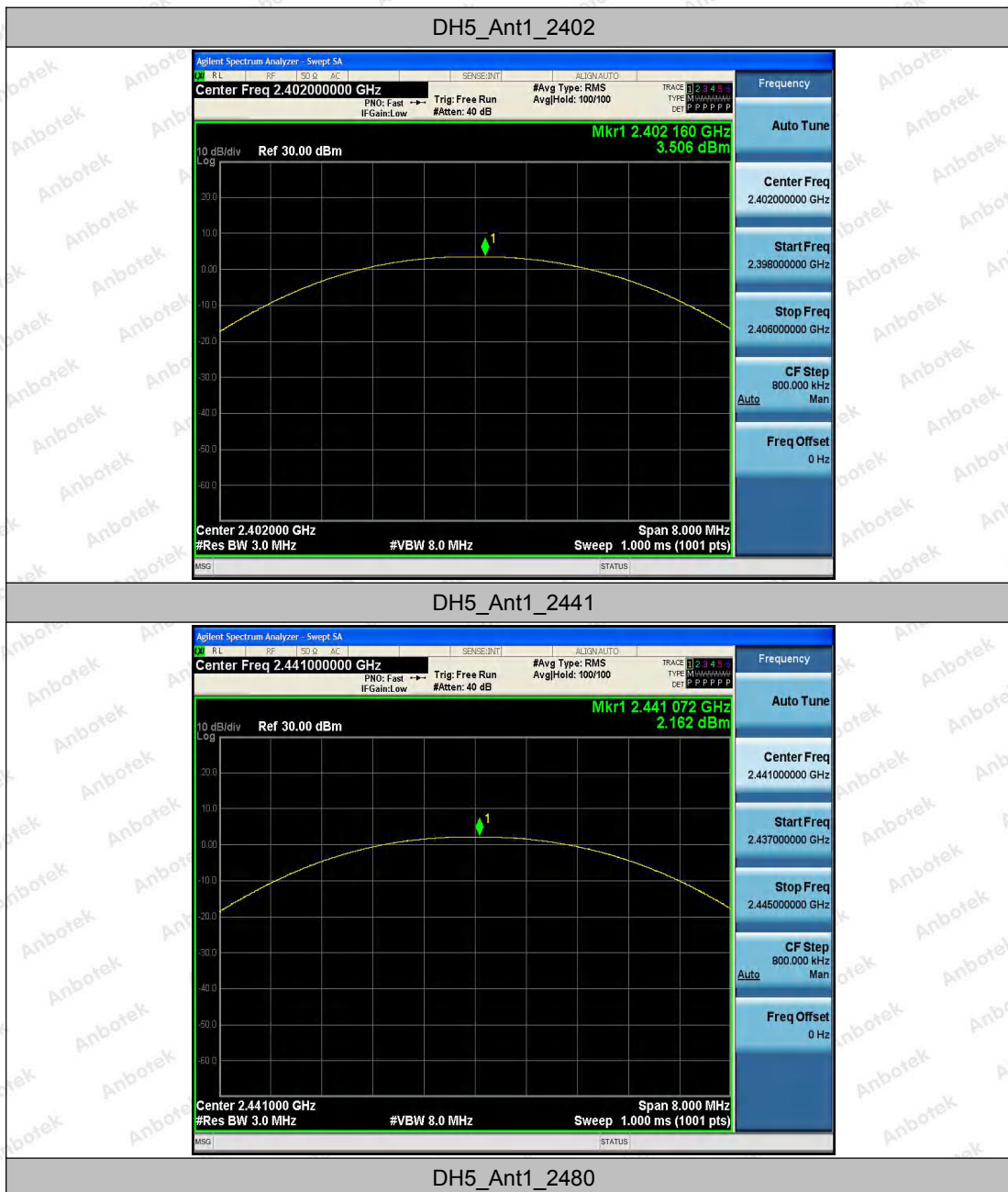
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.51	≤30	PASS
		2441	2.16	≤30	PASS
		2480	4.14	≤30	PASS
2DH5	Ant1	2402	3.41	≤20.97	PASS
		2441	2.24	≤20.97	PASS
		2480	3.9	≤20.97	PASS
3DH5	Ant1	2402	3.57	≤20.97	PASS
		2441	2.4	≤20.97	PASS
		2480	4.15	≤20.97	PASS

Test Graphs





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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	1.144	≥ 0.948	PASS
2DH5	Ant1	Hop	0.962	≥ 0.878	PASS
3DH5	Ant1	Hop	1.01	≥ 0.868	PASS

Test Graphs



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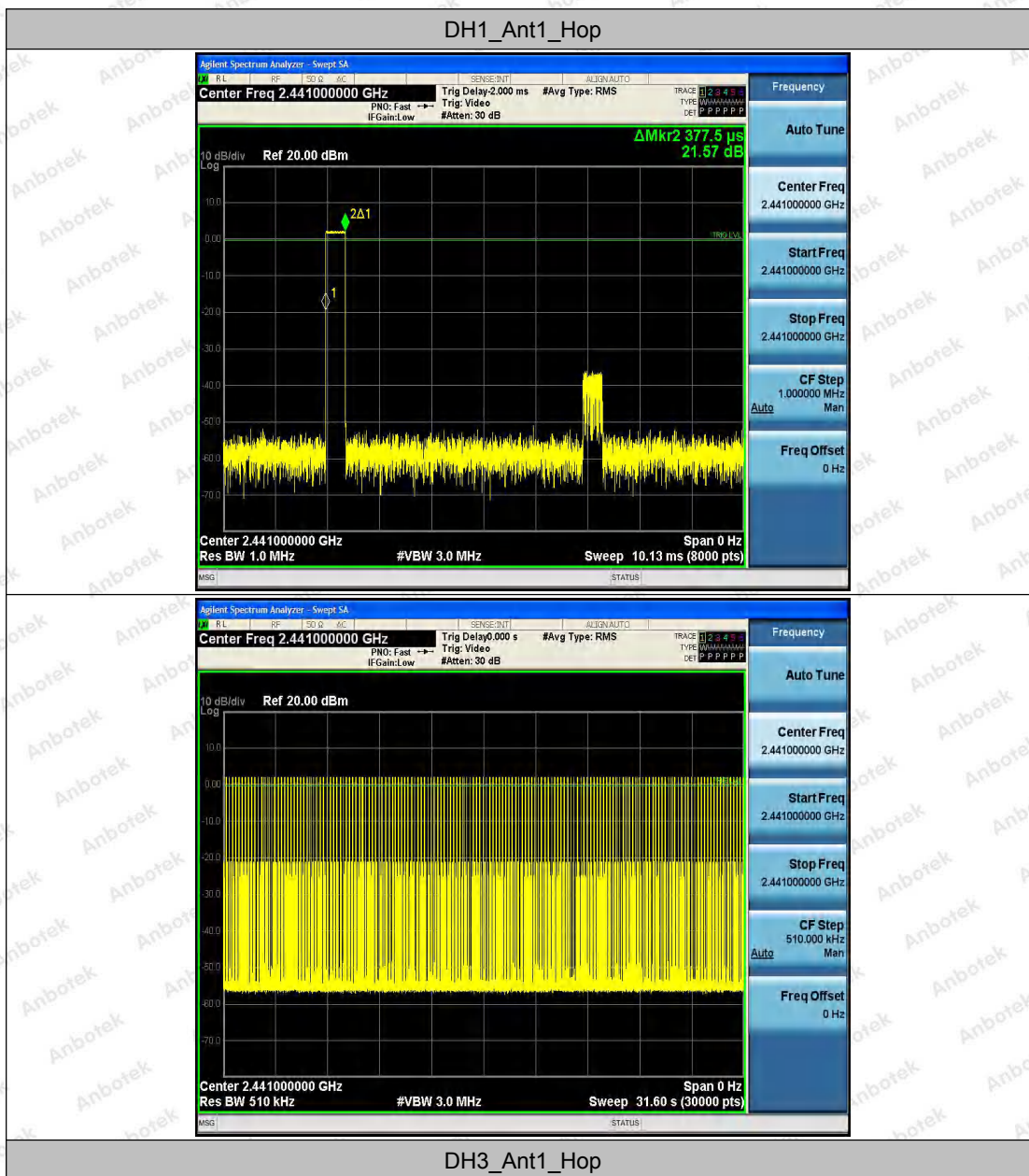
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Appendix E: Time of occupancy

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	159	0.259	≤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	109	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	107	0.309	≤0.4	PASS

Test Graphs



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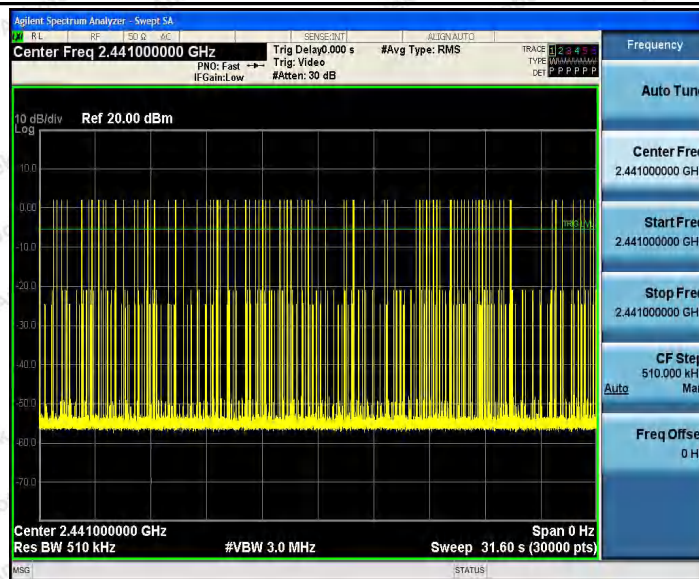
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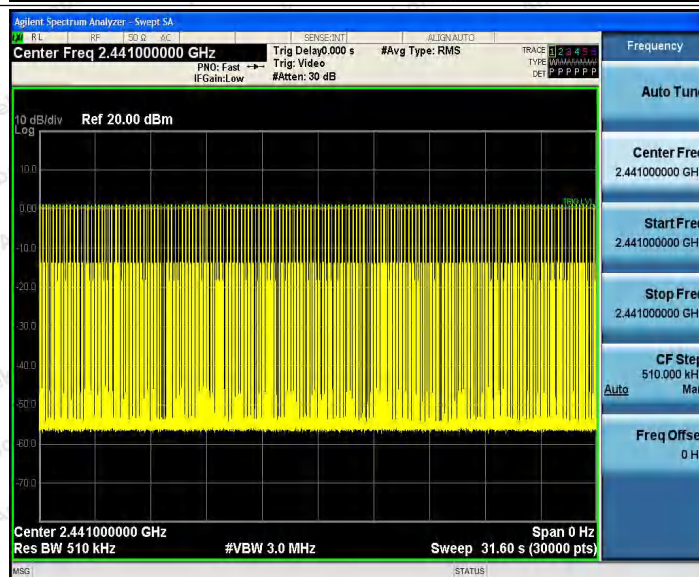
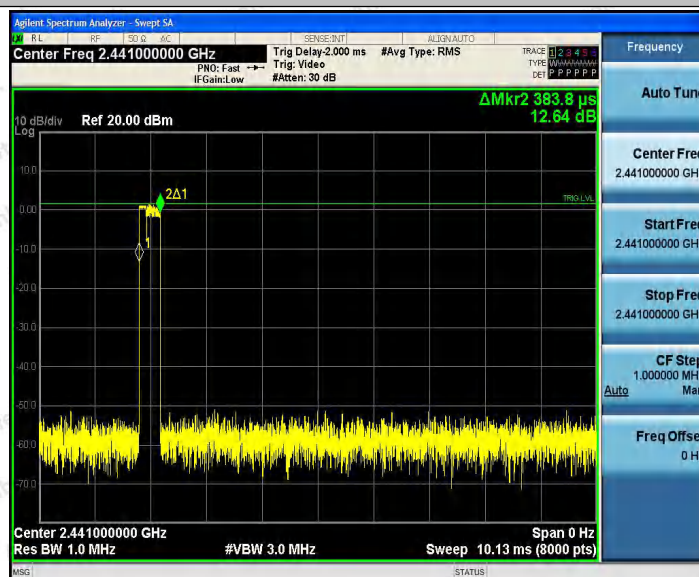
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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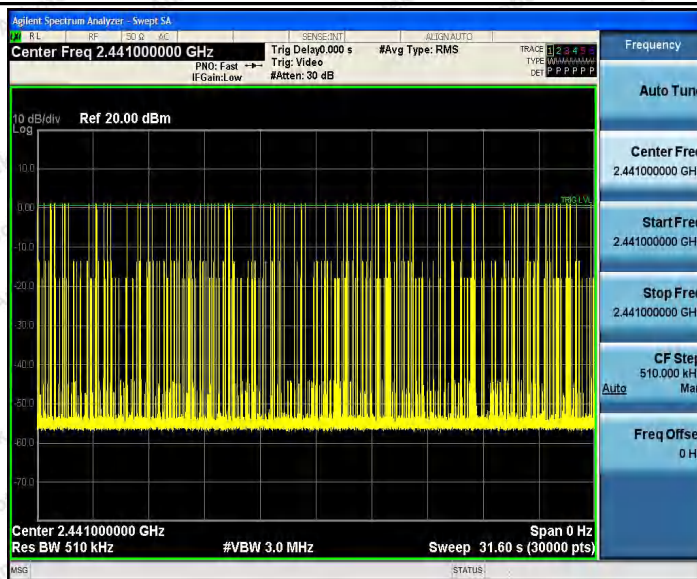
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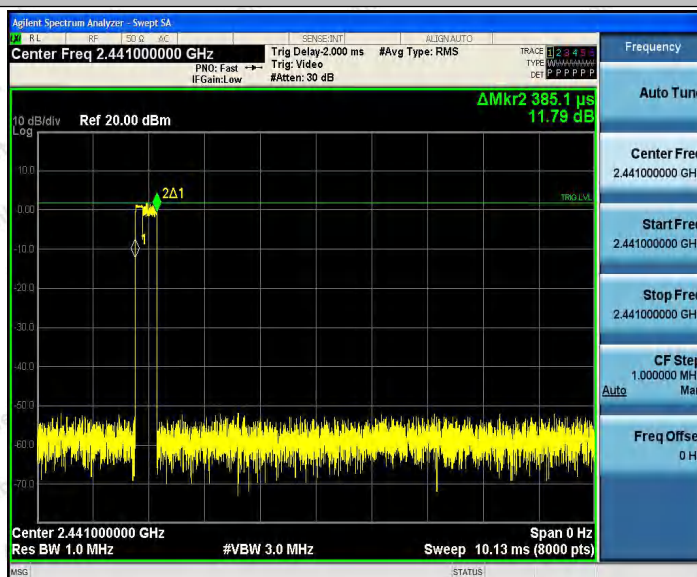
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3DH1_Ant1_Hop



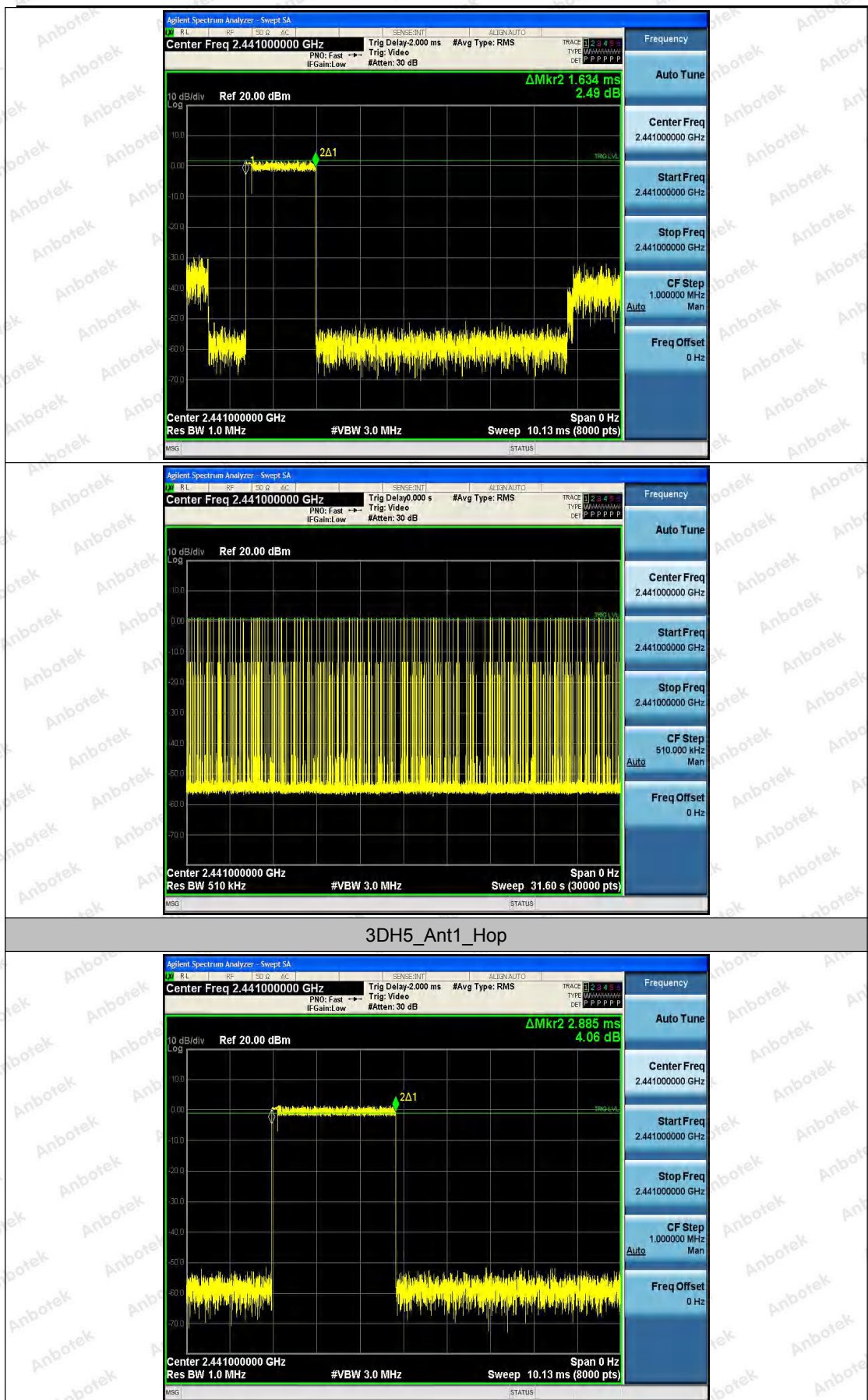
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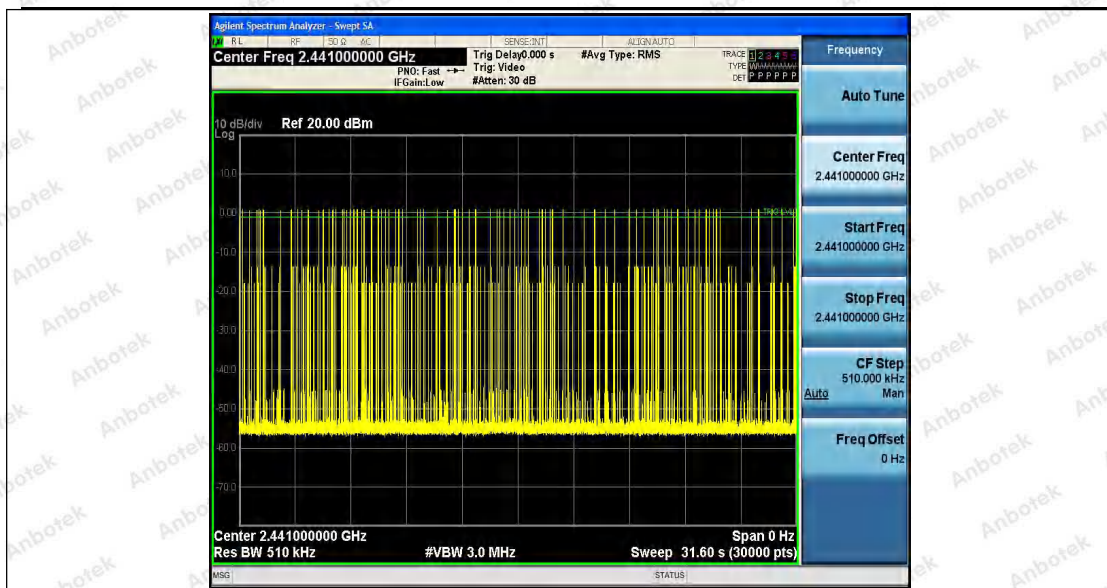


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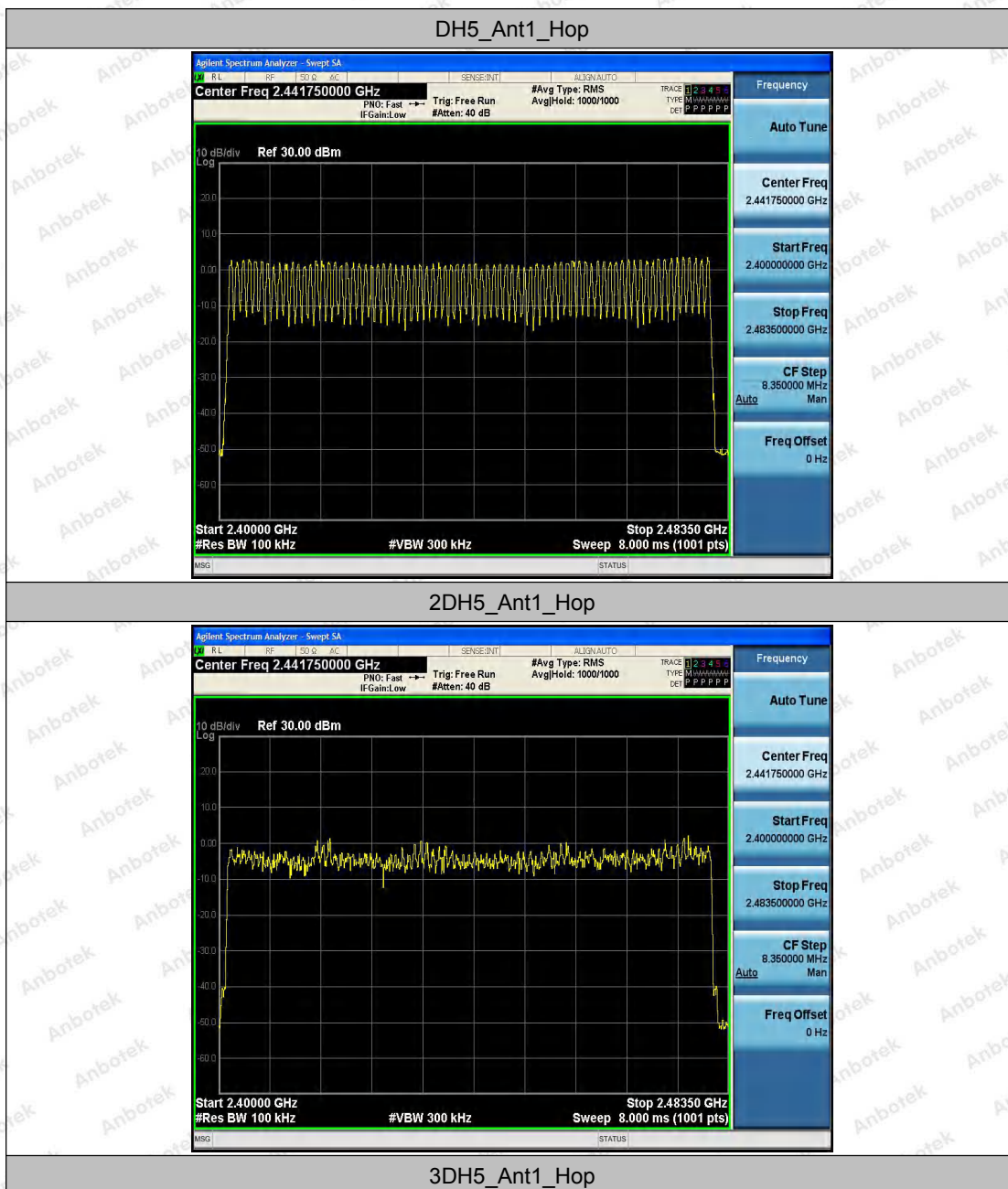
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Appendix F: Number of hopping channels

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

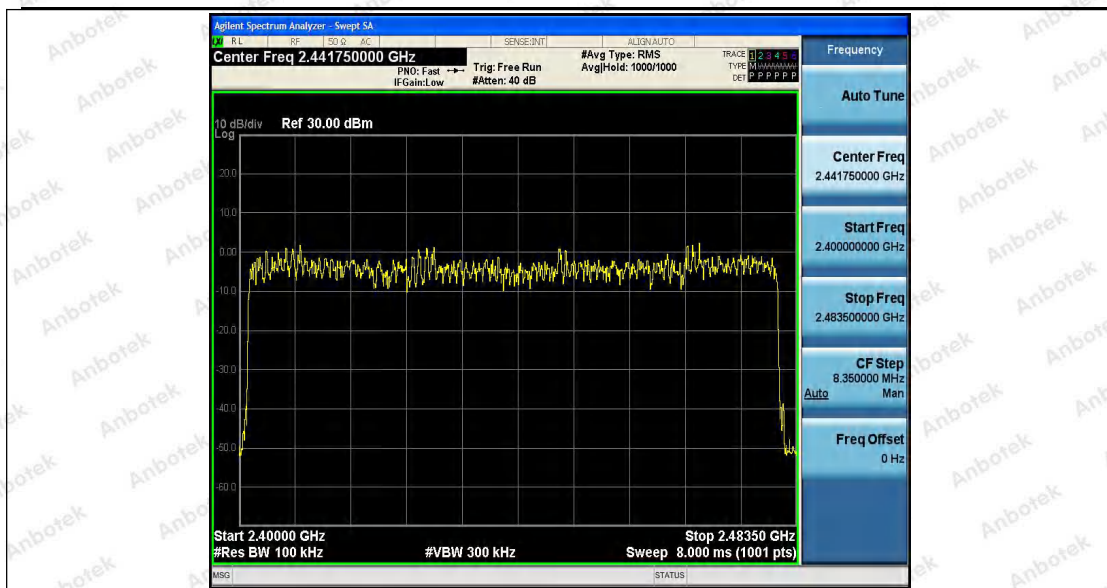


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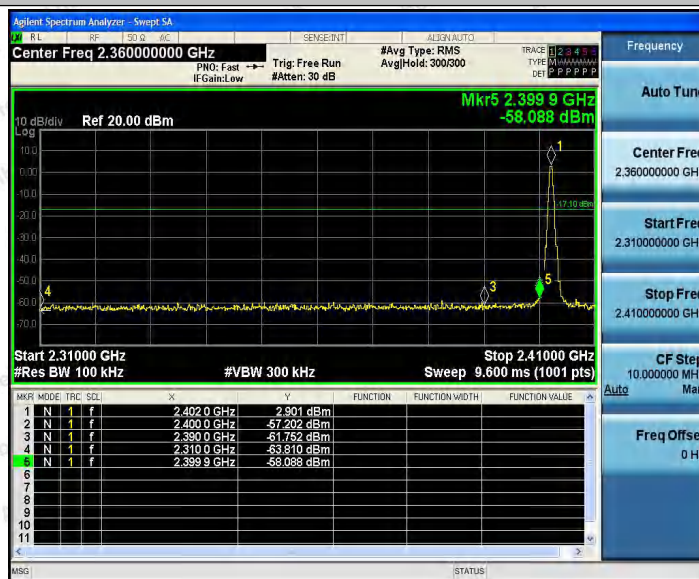
Appendix G: Band edge measurements

Test Result

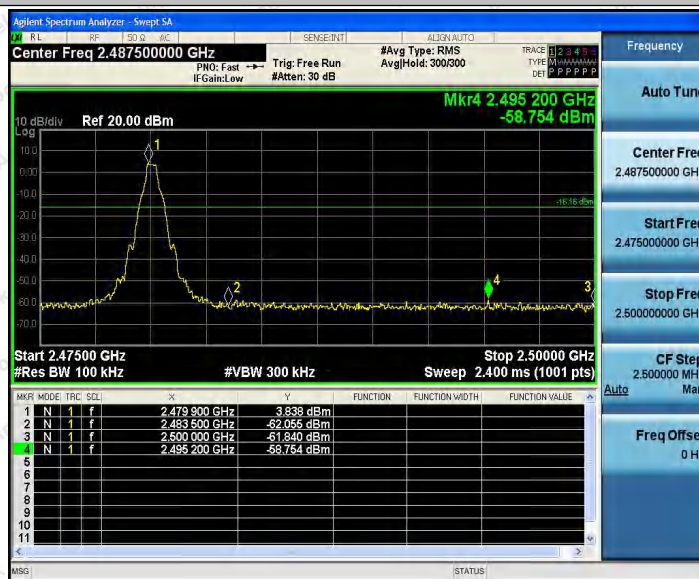
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.90	-58.09	≤-17.1	PASS
		High	2480	3.84	-58.75	≤-16.16	PASS
		Low	Hop	2.84	-58.88	≤-17.17	PASS
		High	Hop	3.03	-62.32	≤-16.97	PASS
2DH5	Ant1	Low	2402	-0.61	-52.7	≤-20.61	PASS
		High	2480	1.48	-59.55	≤-18.52	PASS
		Low	Hop	1.85	-59.7	≤-18.15	PASS
		High	Hop	-1.77	-61.64	≤-21.77	PASS
3DH5	Ant1	Low	2402	2.28	-52.61	≤-17.72	PASS
		High	2480	2.69	-59.05	≤-17.32	PASS
		Low	Hop	-0.18	-59.77	≤-20.18	PASS
		High	Hop	-0.02	-61.56	≤-20.02	PASS

Test Graphs

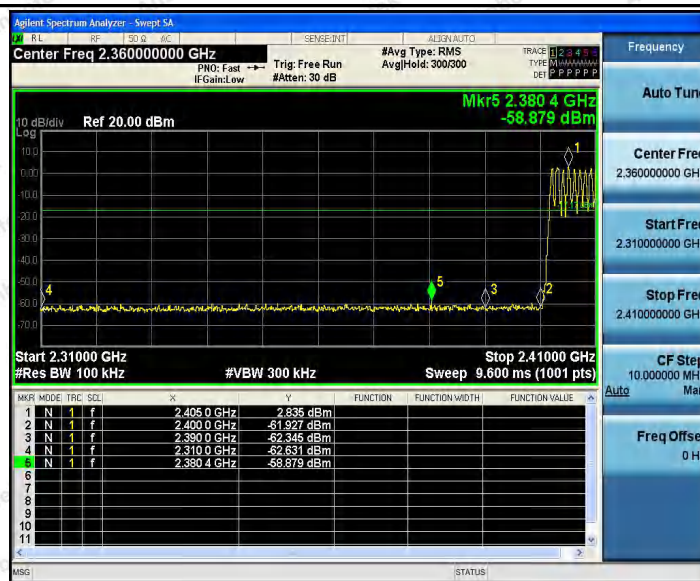
DH5_Ant1_Low_2402



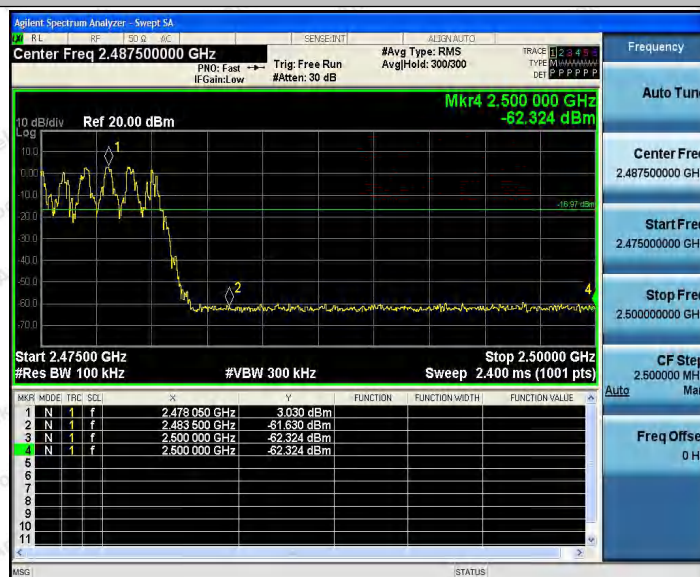
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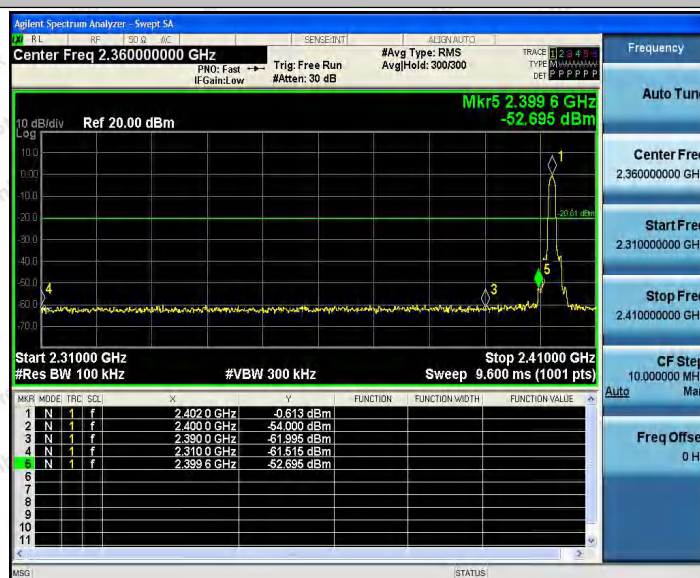
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



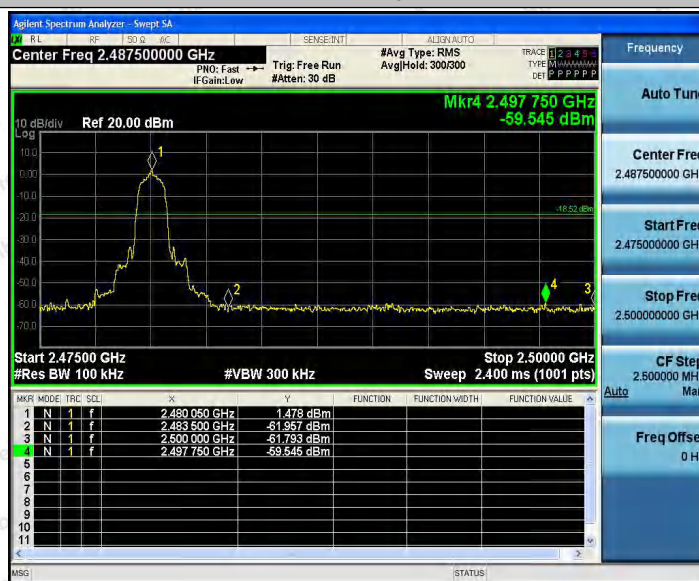
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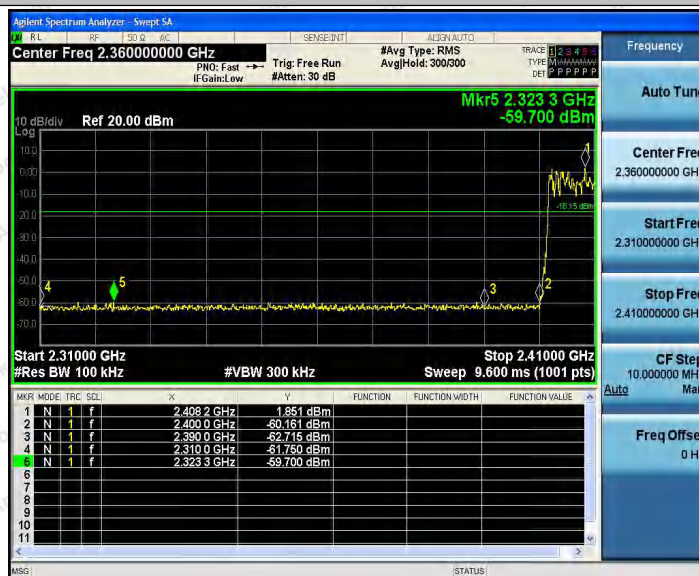
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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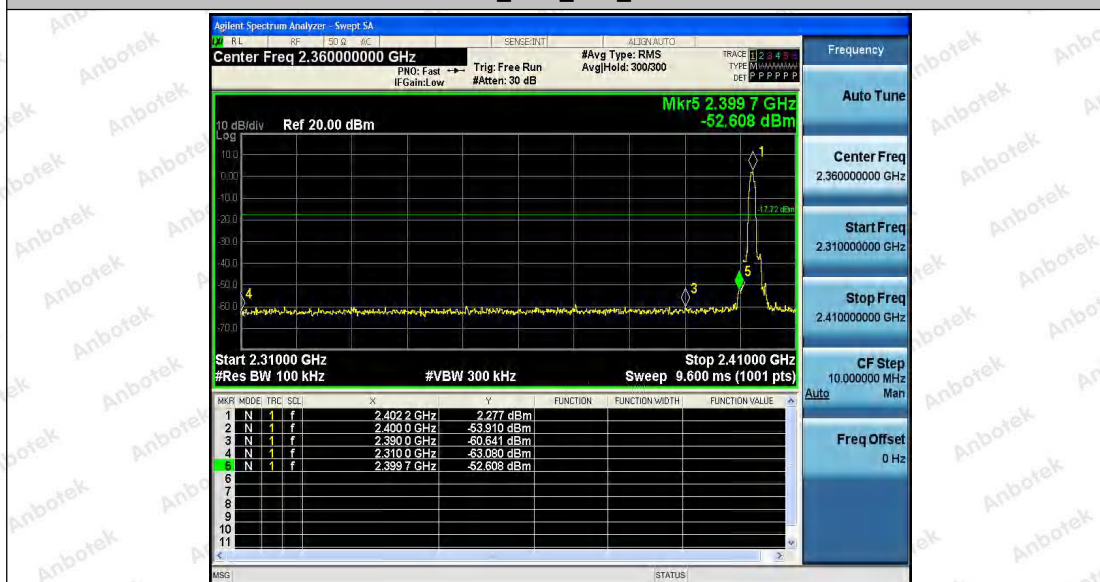
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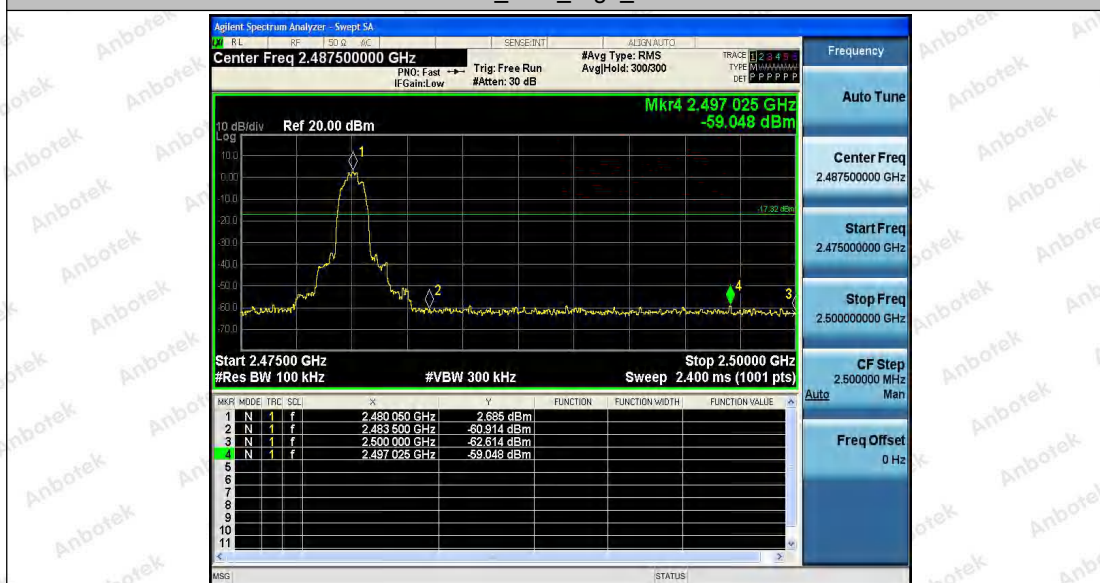
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

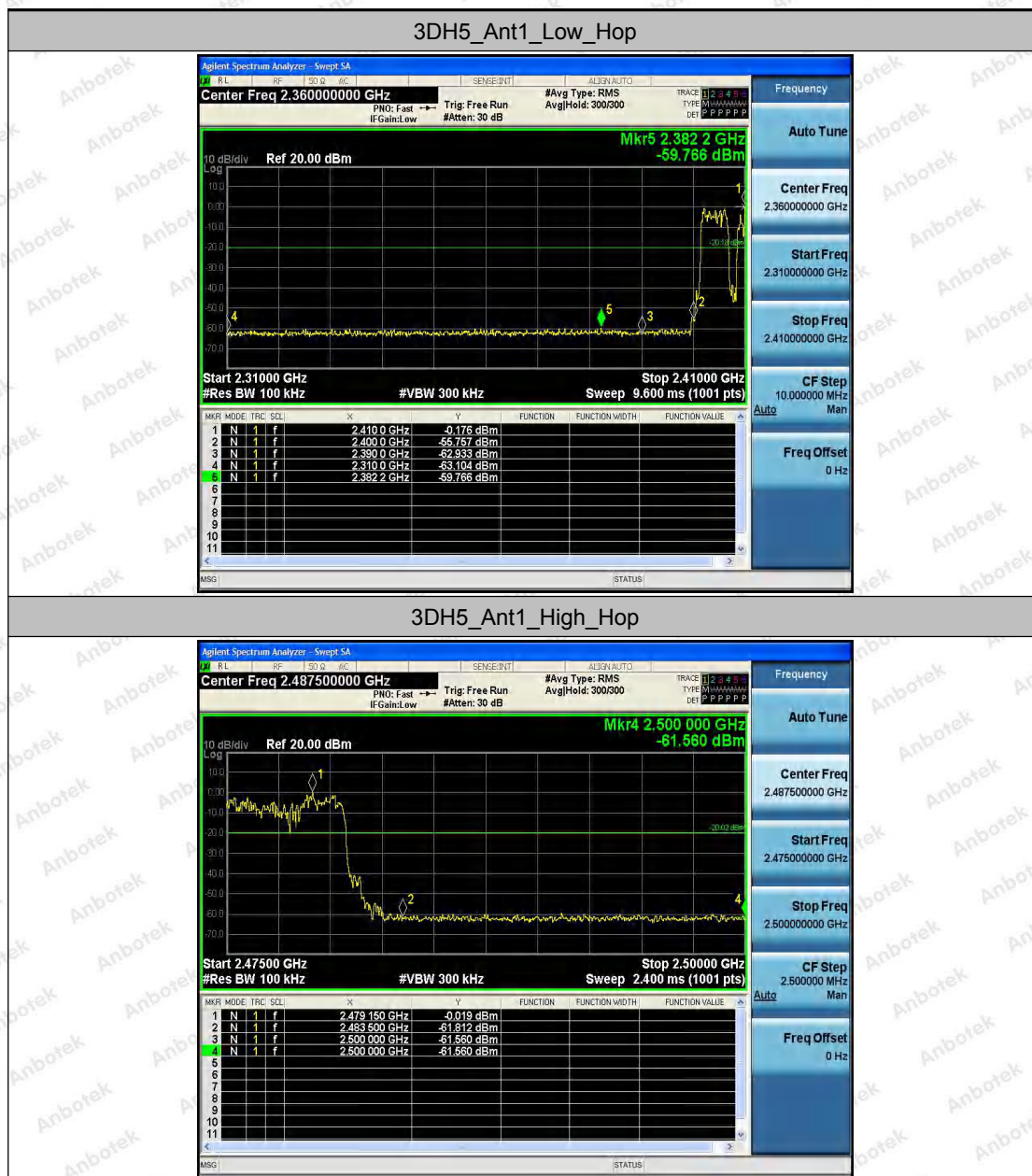


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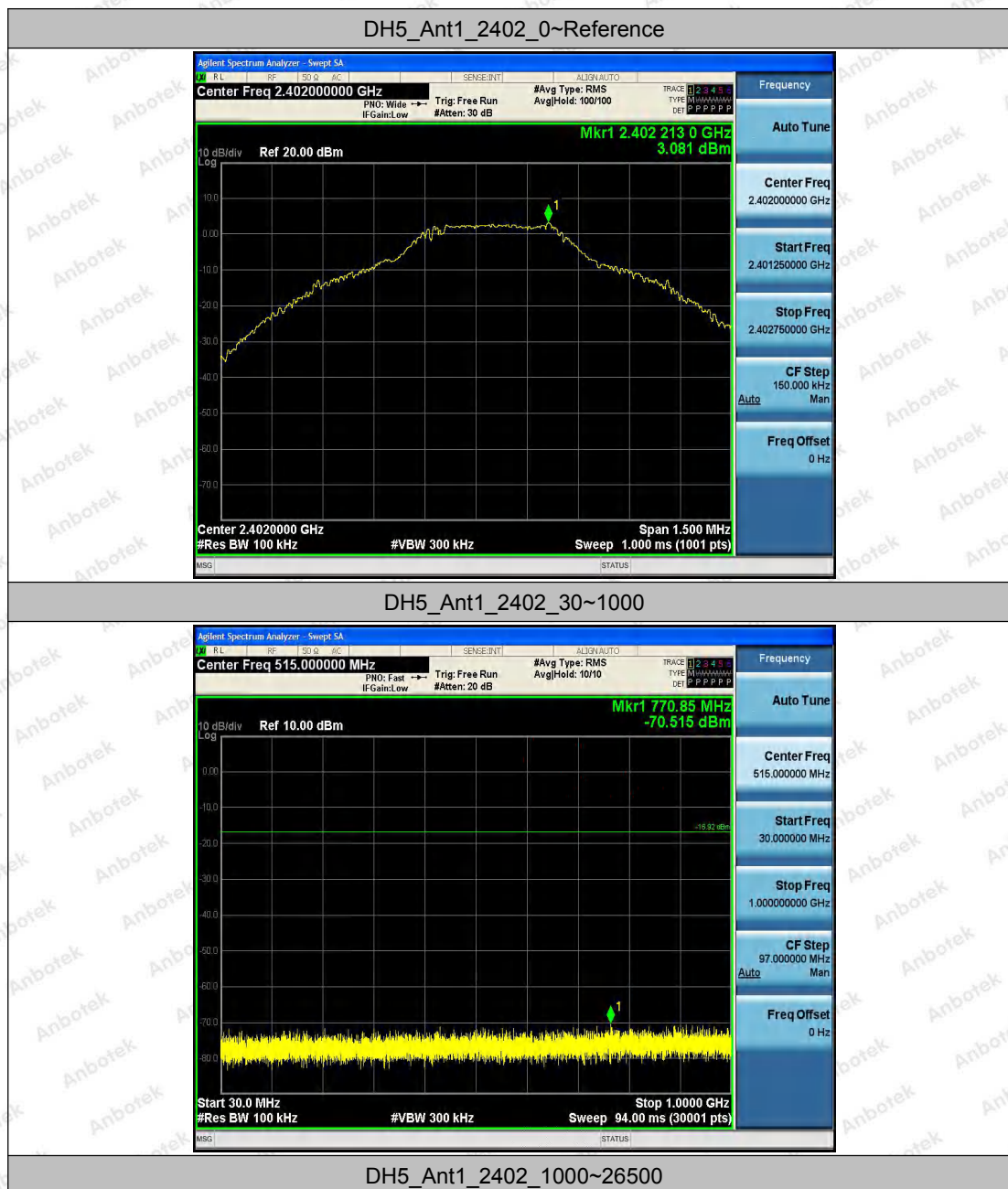
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-70.52	≤-16.92	PASS
			1000~26500	3.08	-50.72	≤-16.92	PASS
		2441	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-70.35	≤-18.3	PASS
			1000~26500	1.70	-51.98	≤-18.3	PASS
		2480	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-70.62	≤-16.66	PASS
			1000~26500	3.34	-54.67	≤-16.66	PASS
2DH5	Ant1	2402	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-70.28	≤-17.97	PASS
			1000~26500	2.03	-55.47	≤-17.97	PASS
		2441	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-69.74	≤-19.08	PASS
			1000~26500	0.92	-55.13	≤-19.08	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-69.04	≤-18.1	PASS
			1000~26500	1.90	-55.59	≤-18.1	PASS
3DH5	Ant1	2402	Reference	1.49	1.49	---	PASS
			30~1000	1.49	-70.16	≤-18.51	PASS
			1000~26500	1.49	-55.12	≤-18.51	PASS
		2441	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-68.16	≤-18.98	PASS
			1000~26500	1.02	-46.34	≤-18.98	PASS
		2480	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-69.51	≤-17.31	PASS
			1000~26500	2.69	-54.69	≤-17.31	PASS

Test Graphs



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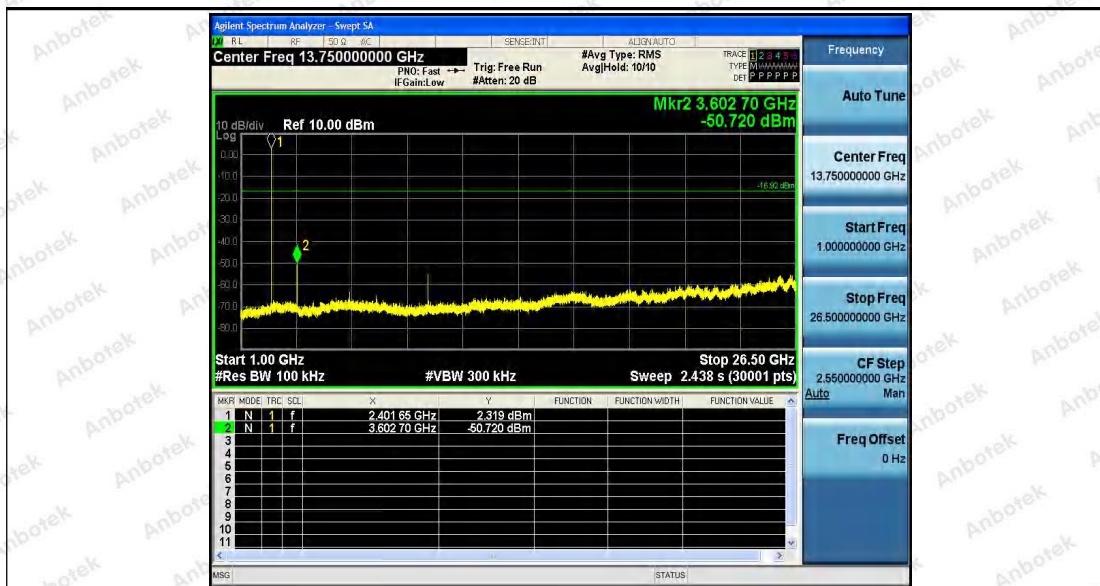
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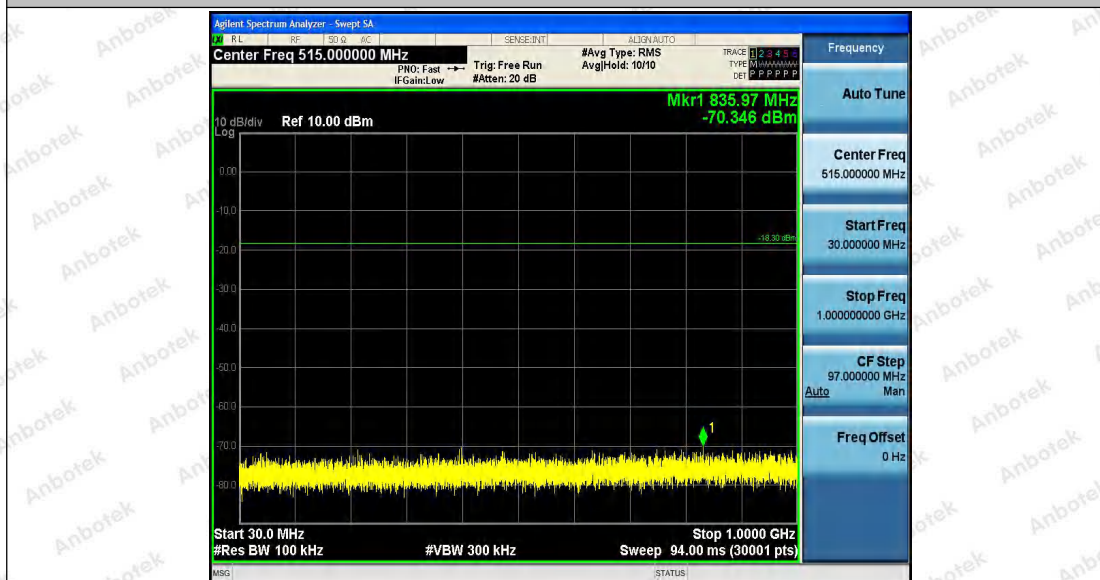
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

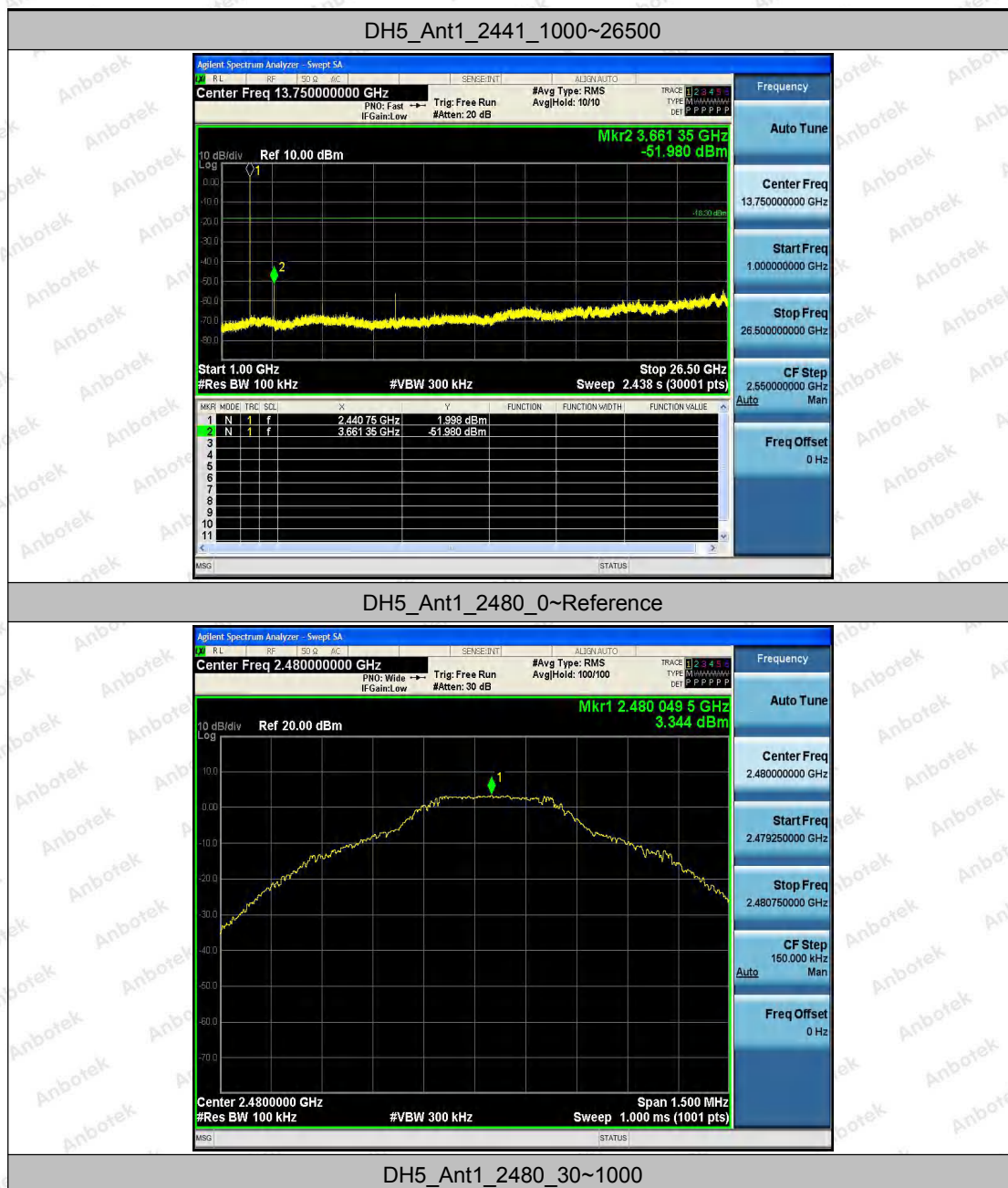


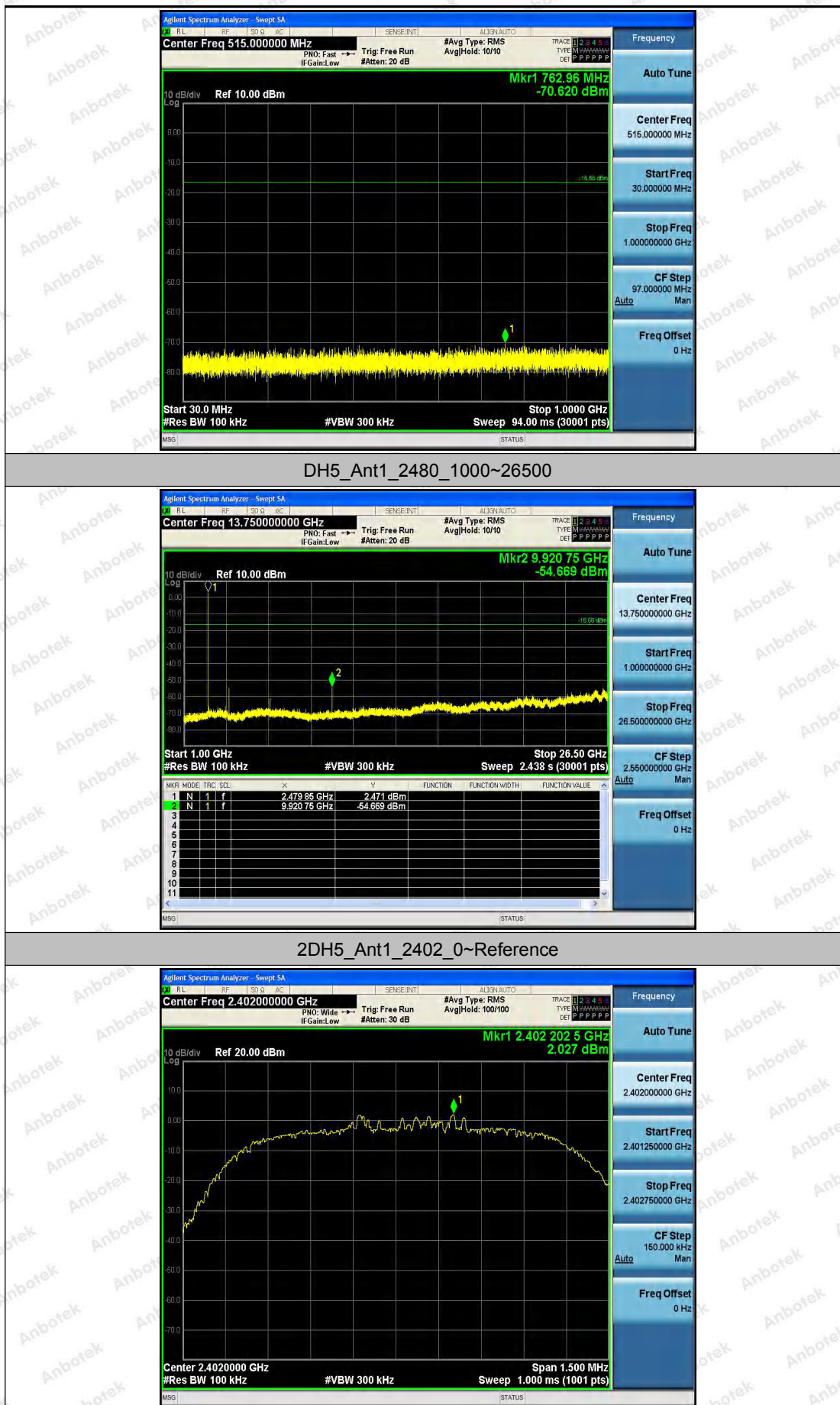
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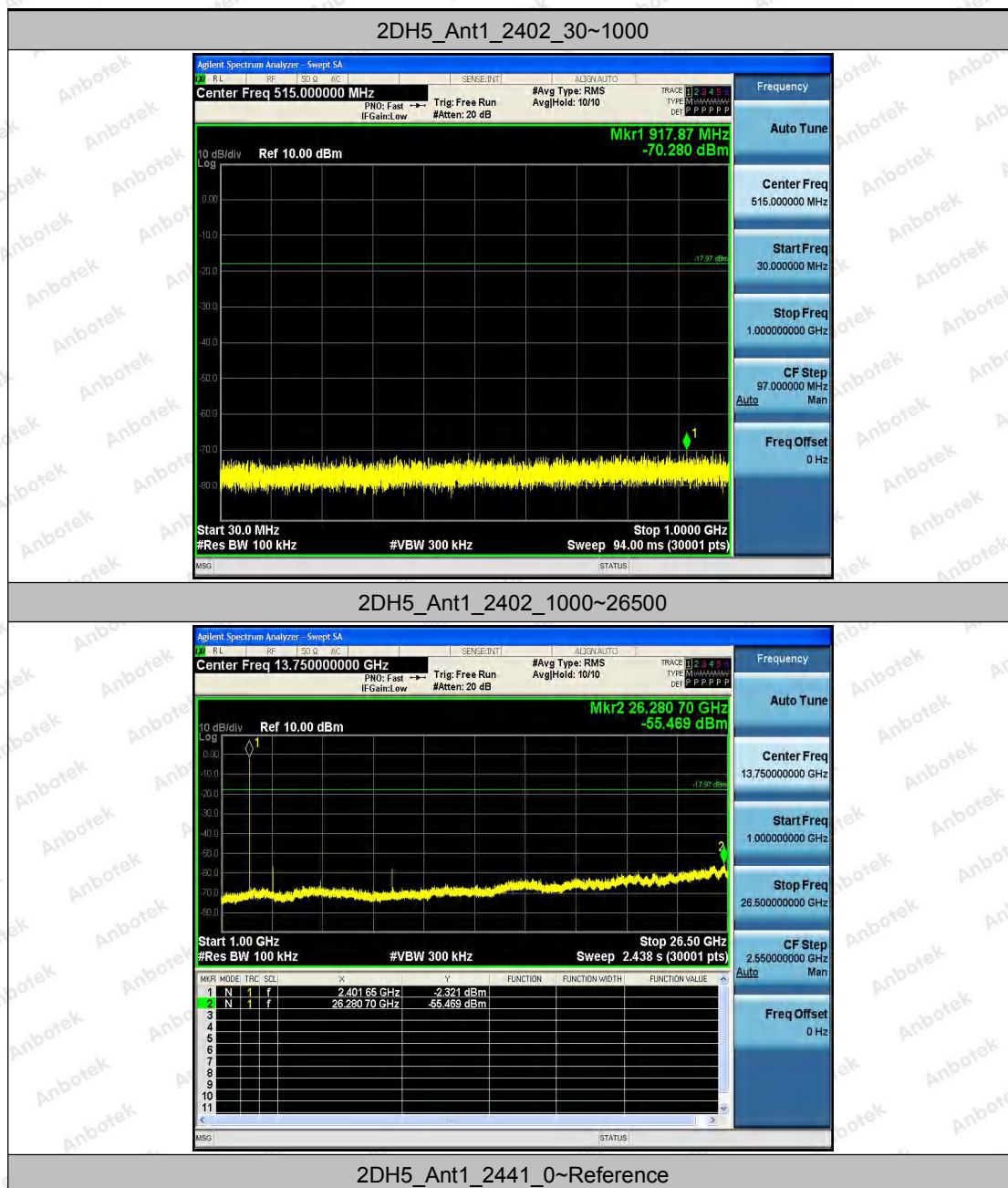


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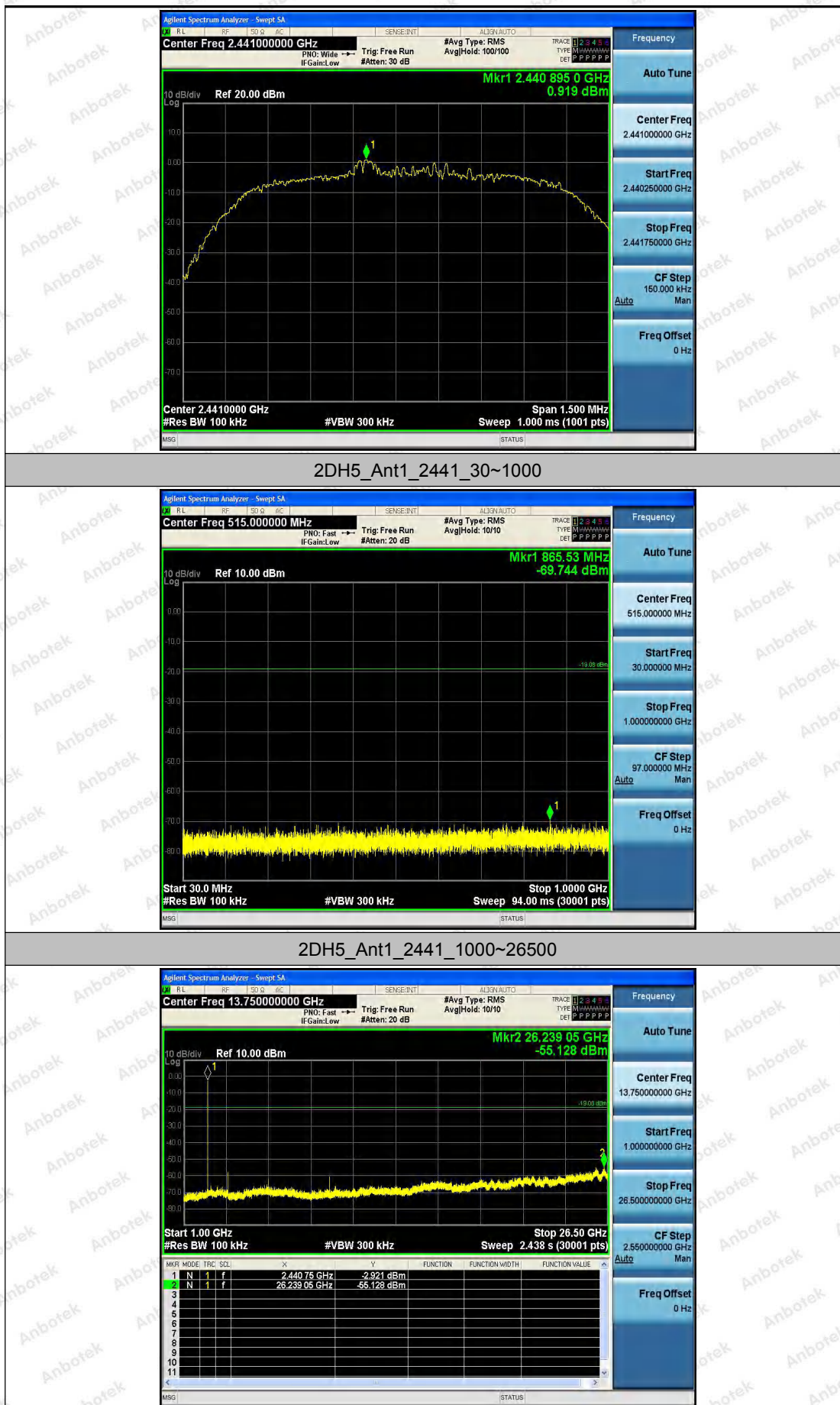


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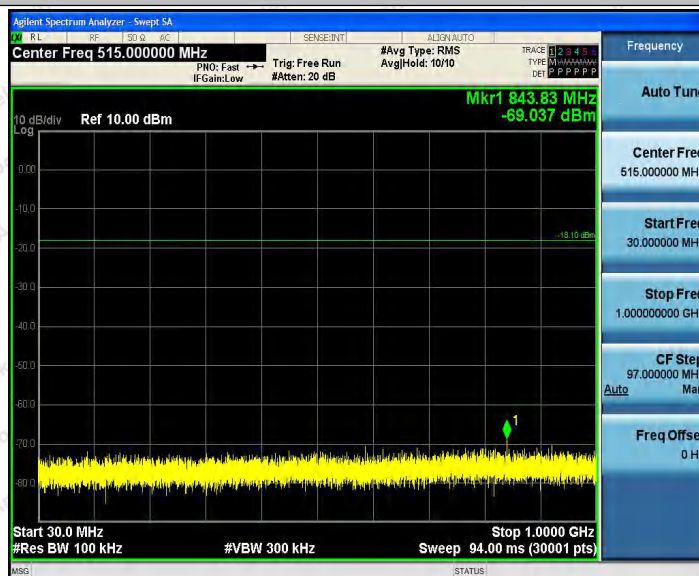
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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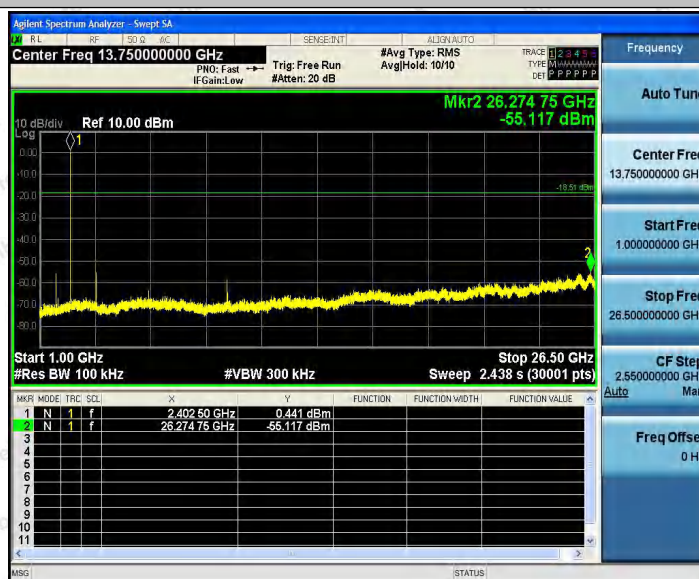
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



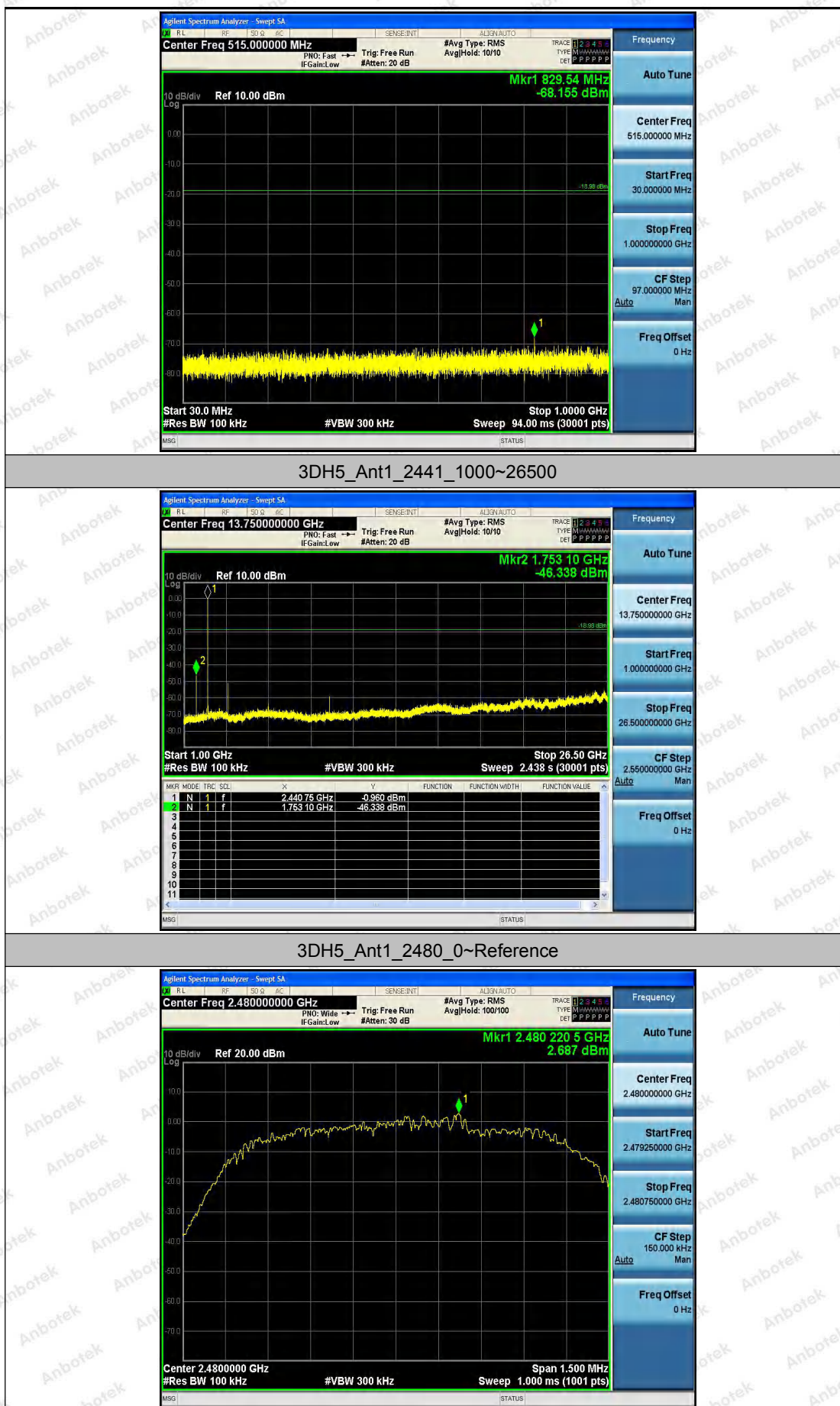
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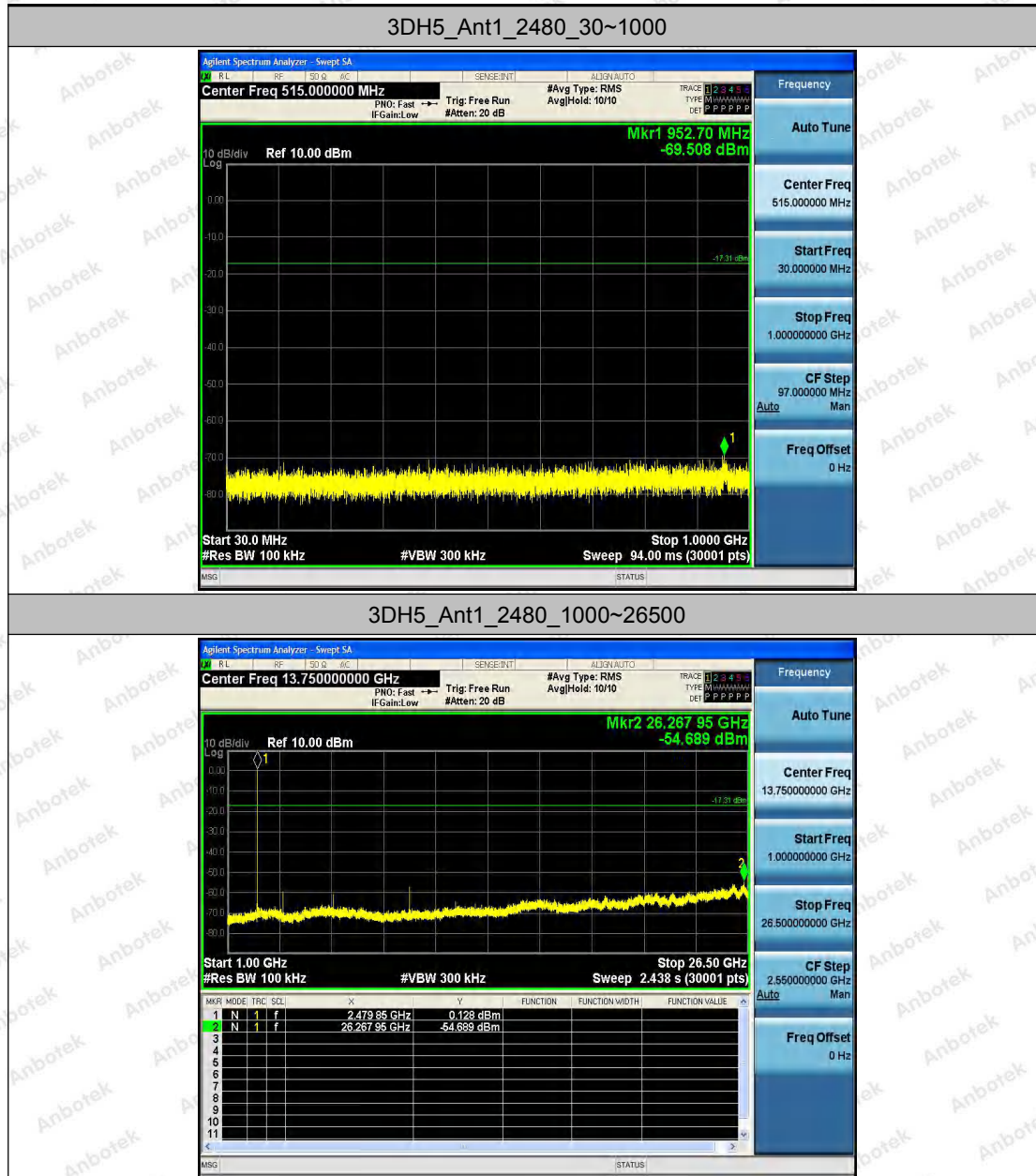


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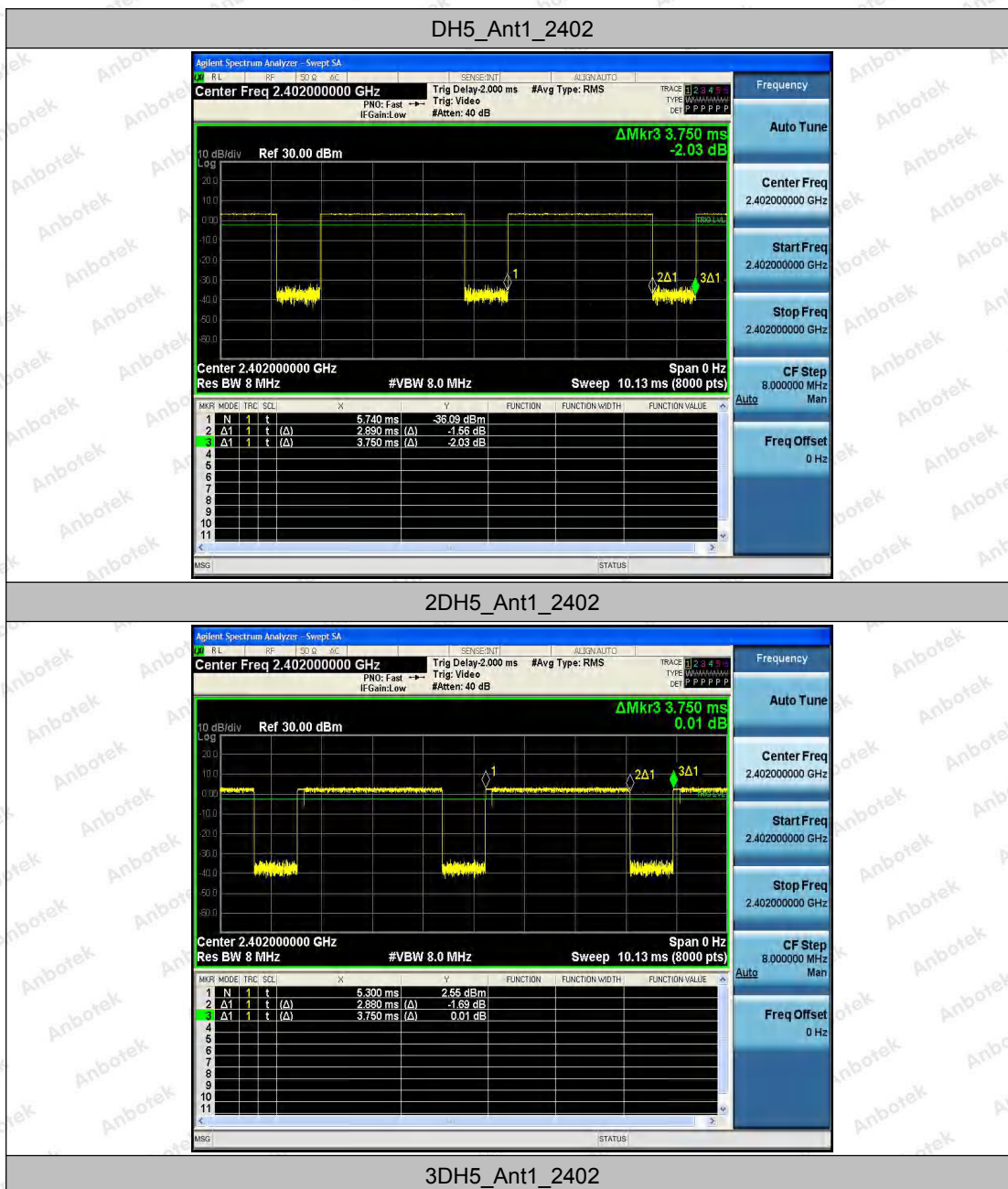
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	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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