

Appendix Test Data

Report No.:	18220WC20116101	Test Sample No.:	1-2-2
Start Test Date:	2022.5.28	Finish Test Date:	2022.6.02
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.8°C	Relative Humidity:	54.5%
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	2401.538	2402.486	---	PASS
		2441	0.942	2440.538	2441.480	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.260	2401.373	2402.633	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.311	2440.349	2441.660	---	PASS
		2480	1.311	2479.346	2480.657	---	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



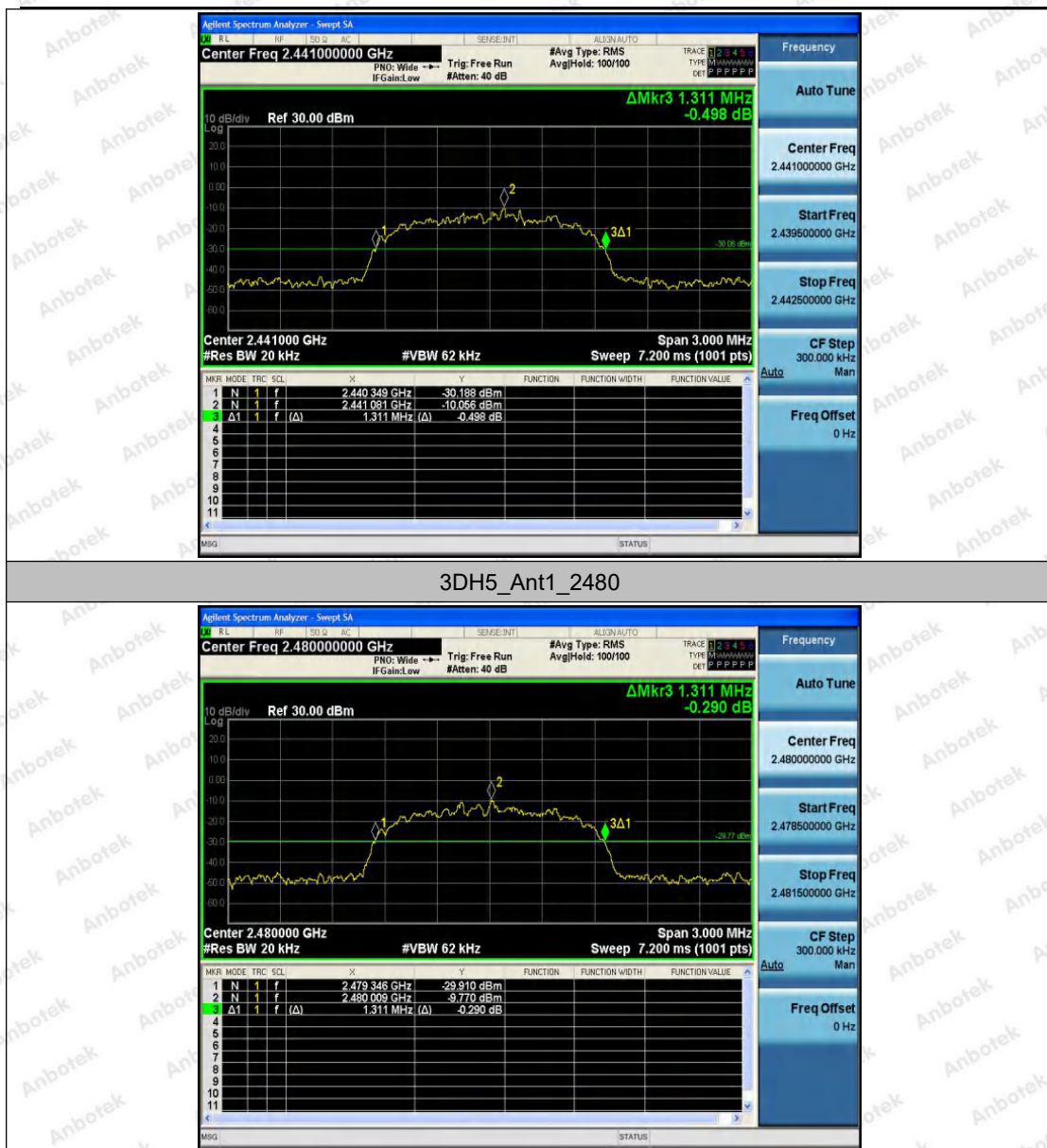
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88121	2401.56 0	2402.441	---	PASS
		2441	0.88464	2440.55 8	2441.443	---	PASS
		2480	0.89107	2479.55 3	2480.444	---	PASS
2DH5	Ant1	2402	1.1922	2401.40 4	2402.597	---	PASS
		2441	1.1905	2440.40 4	2441.594	---	PASS
		2480	1.1886	2479.40 6	2480.595	---	PASS
3DH5	Ant1	2402	1.2098	2401.38 6	2402.596	---	PASS
		2441	1.2150	2440.38 4	2441.599	---	PASS
		2480	1.2055	2479.38 9	2480.595	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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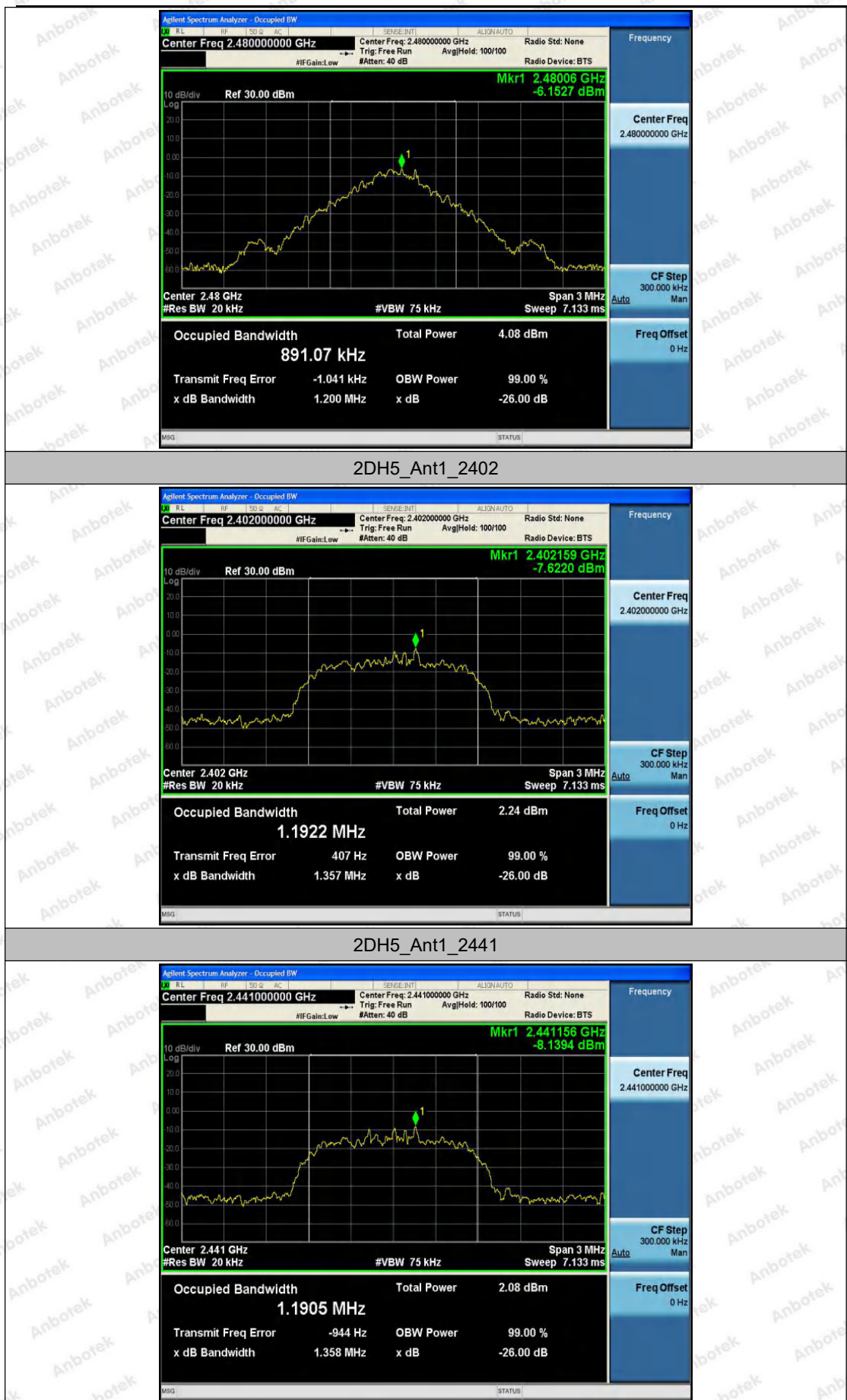
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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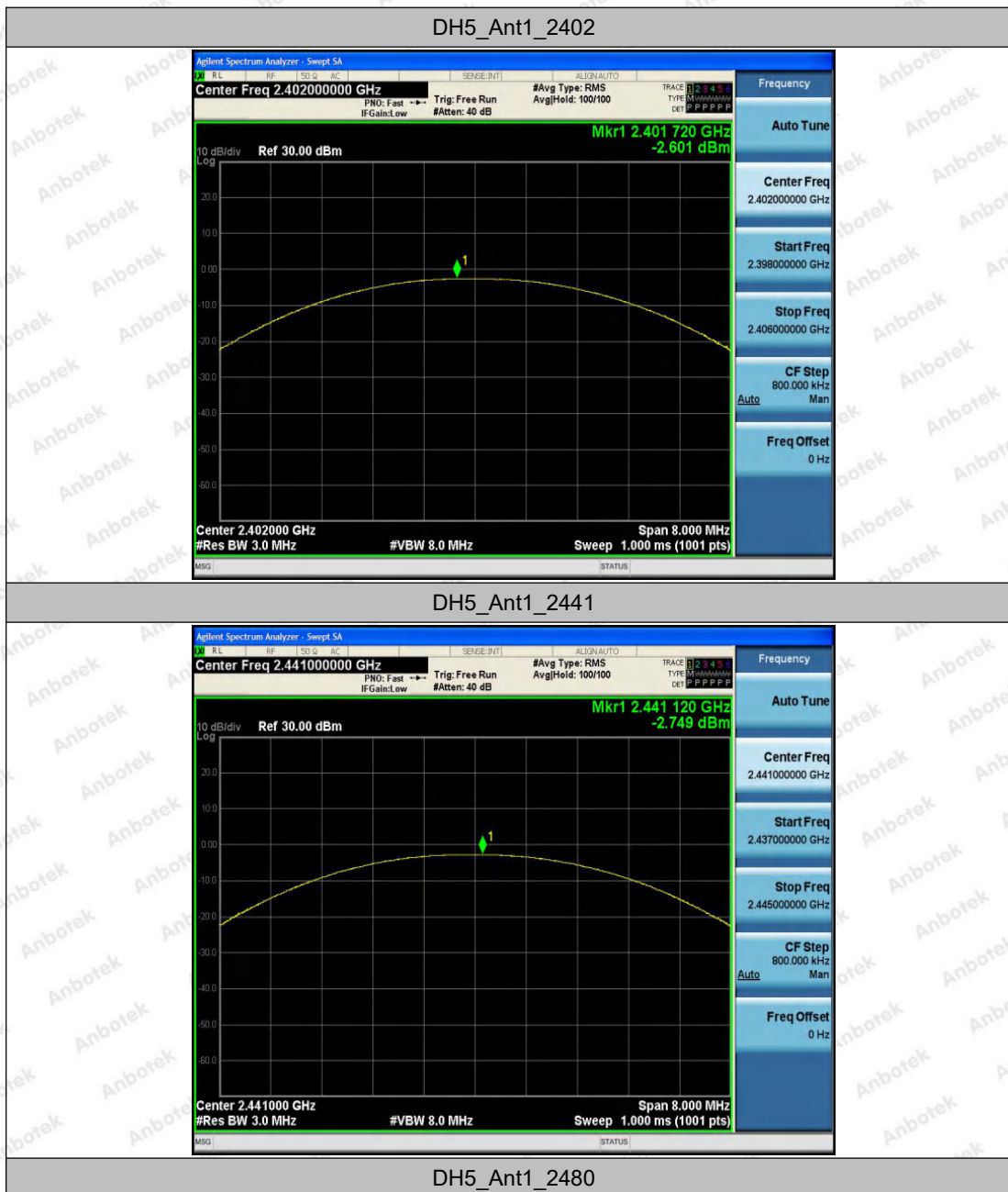


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.6	≤20.97	PASS
		2441	-2.75	≤20.97	PASS
		2480	-2.33	≤20.97	PASS
2DH5	Ant1	2402	-3.27	≤20.97	PASS
		2441	-3.38	≤20.97	PASS
		2480	-3.01	≤20.97	PASS
3DH5	Ant1	2402	-3.12	≤20.97	PASS
		2441	-3.32	≤20.97	PASS
		2480	-2.93	≤20.97	PASS

Test Graphs

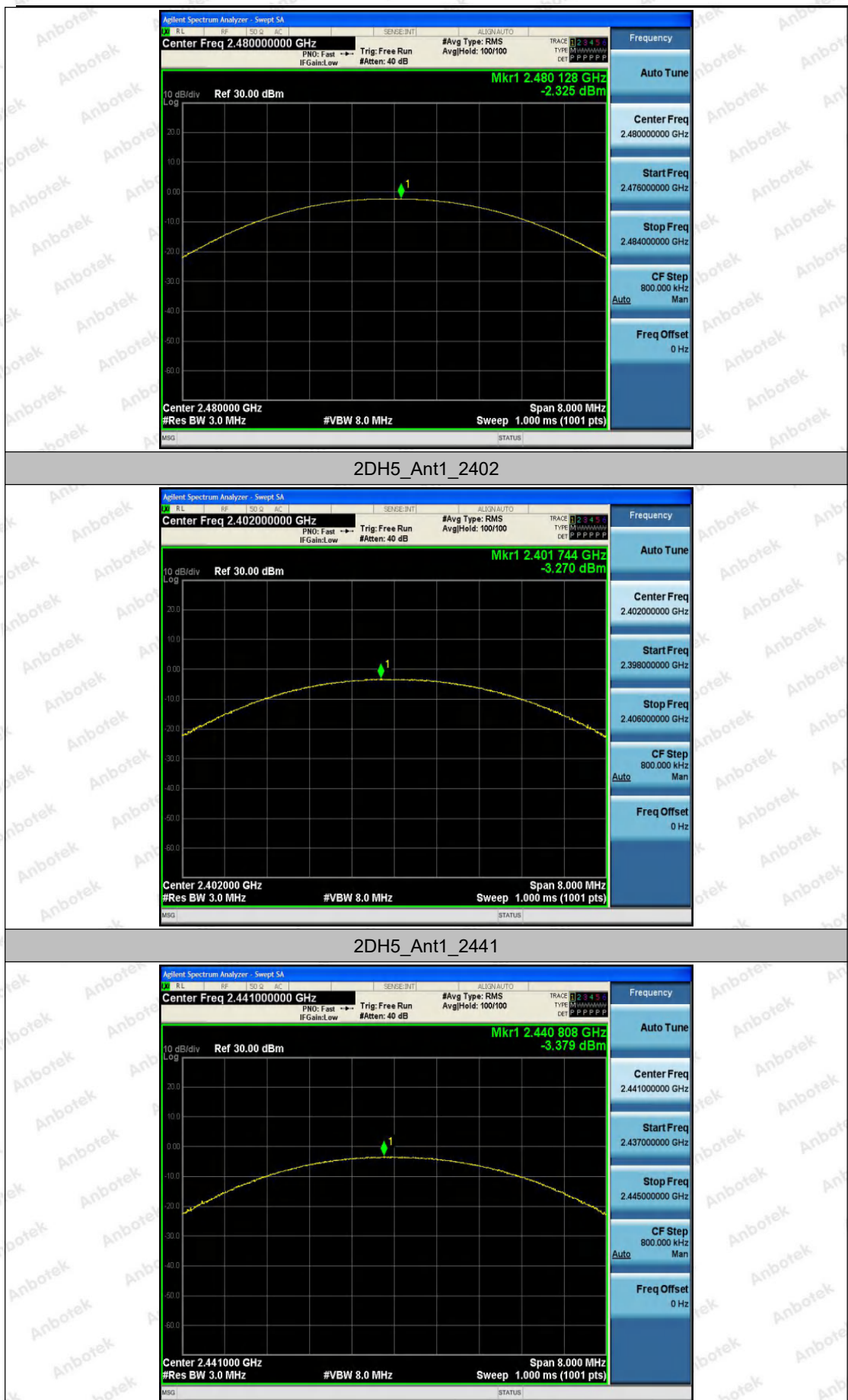


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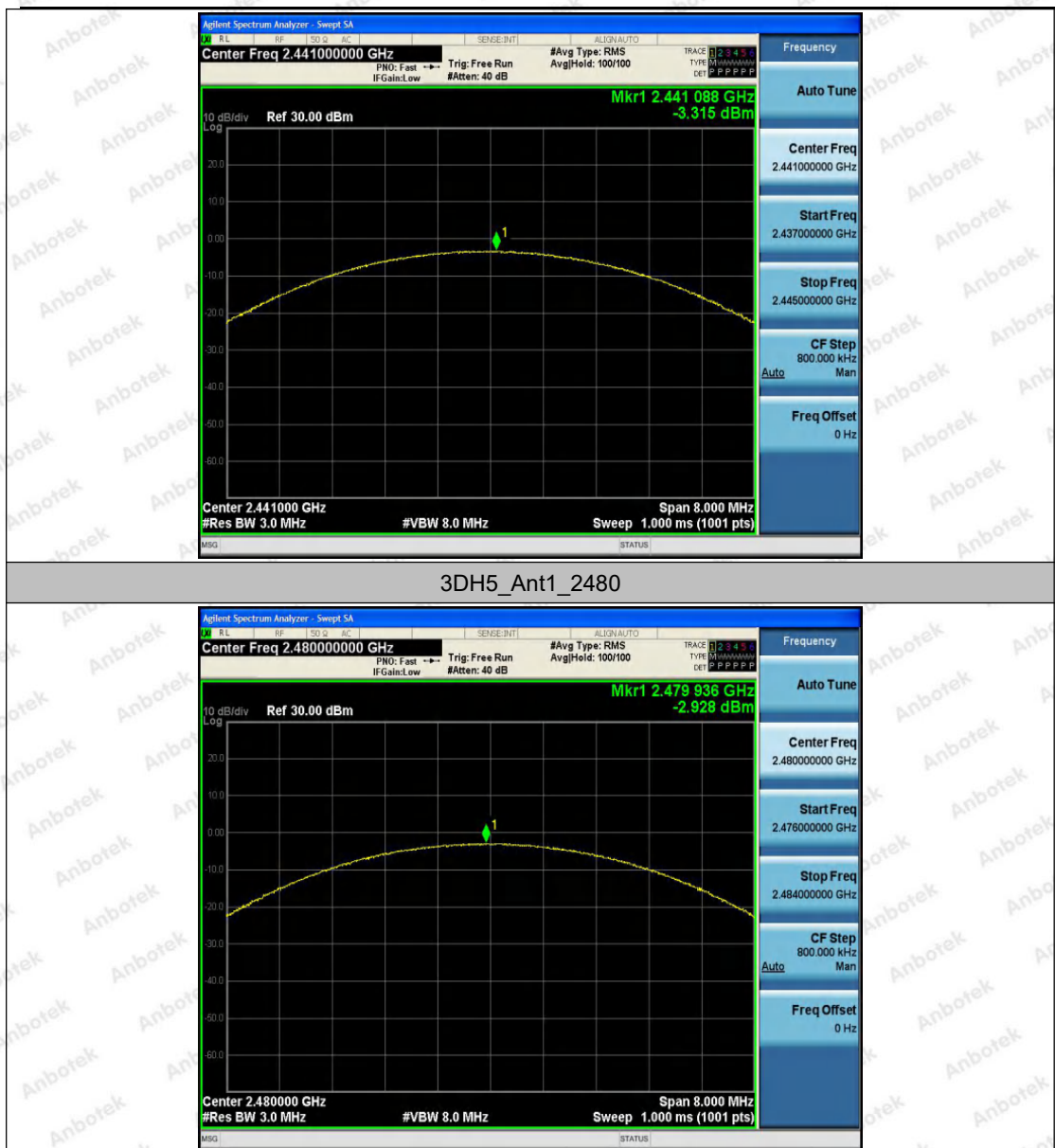
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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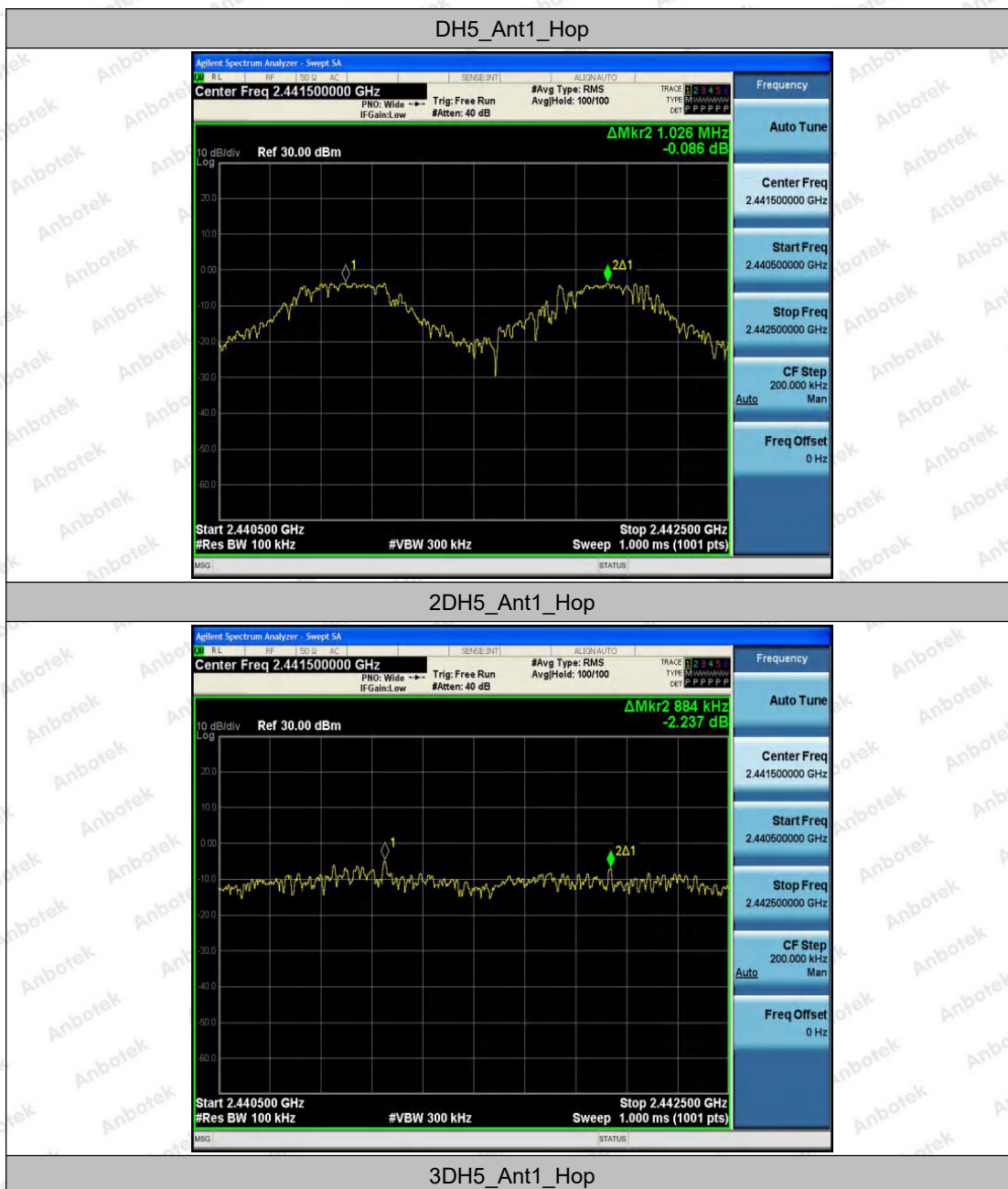
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.026	≥ 0.948	PASS
2DH5	Ant1	Hop	0.884	≥ 0.882	PASS
3DH5	Ant1	Hop	0.892	≥ 0.874	PASS

Test Graphs

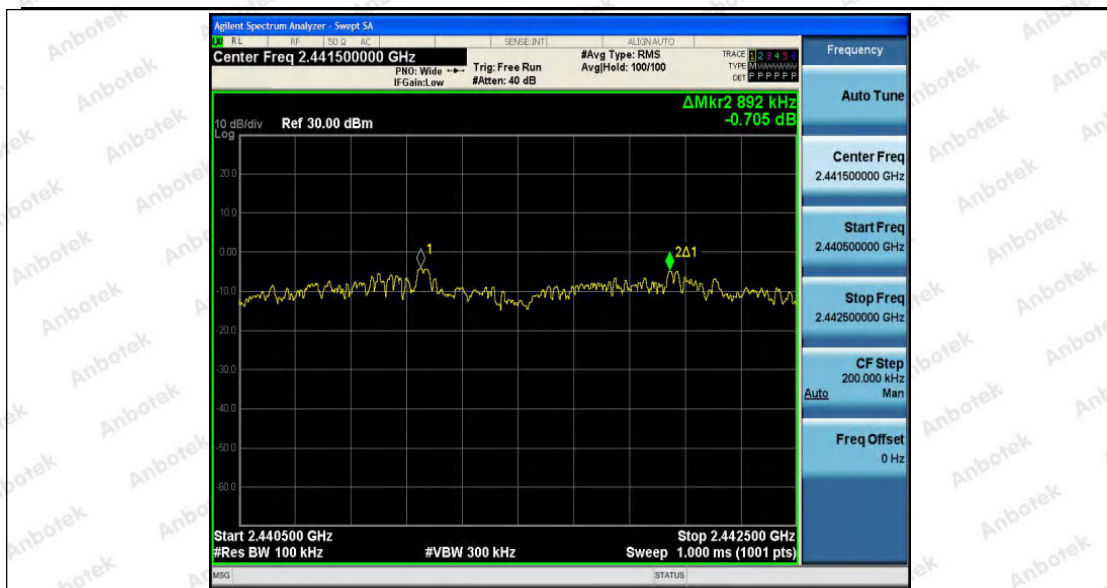


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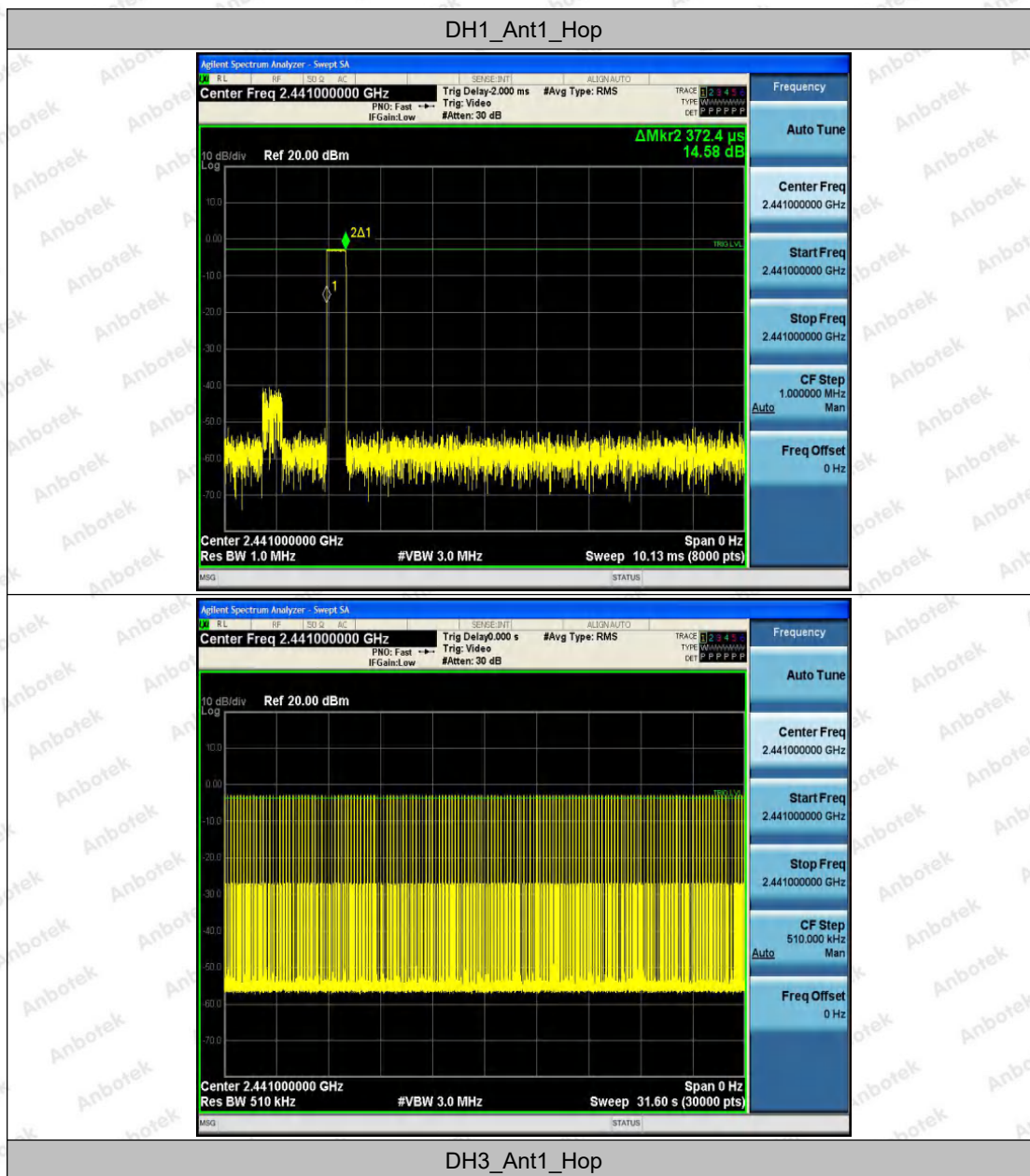
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Appendix E: Time of occupancy

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	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	113	0.325	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	116	0.334	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS

Test Graphs



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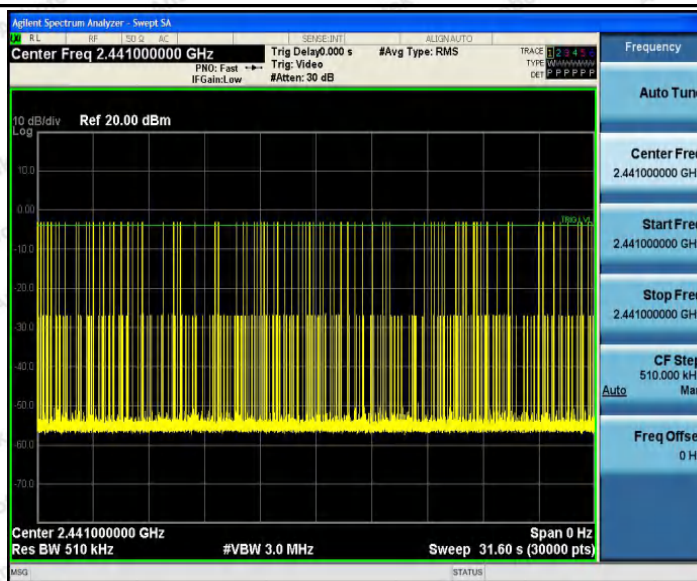
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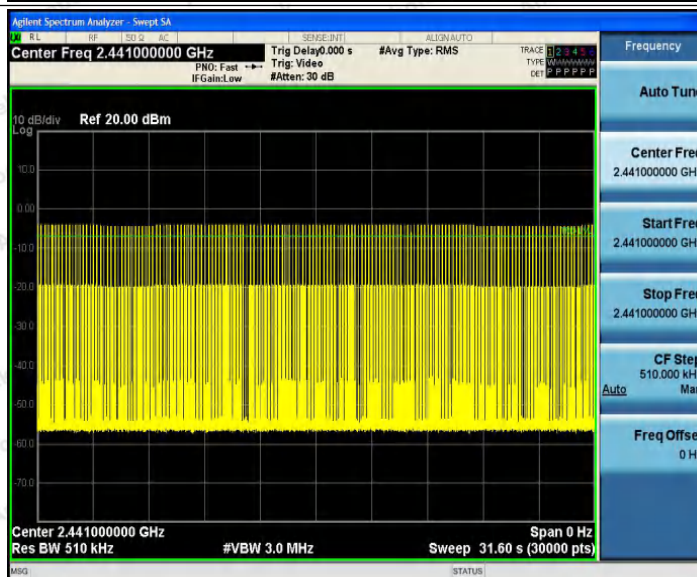
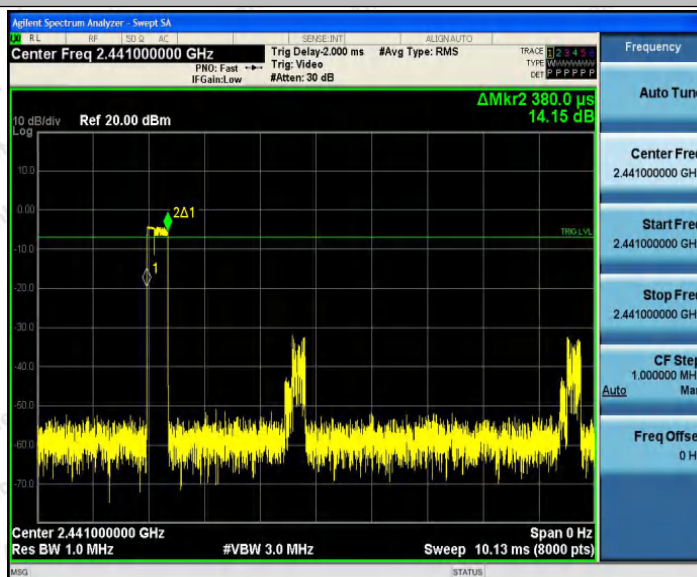
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DH5_Ant1_Hop



2DH1_Ant1_Hop



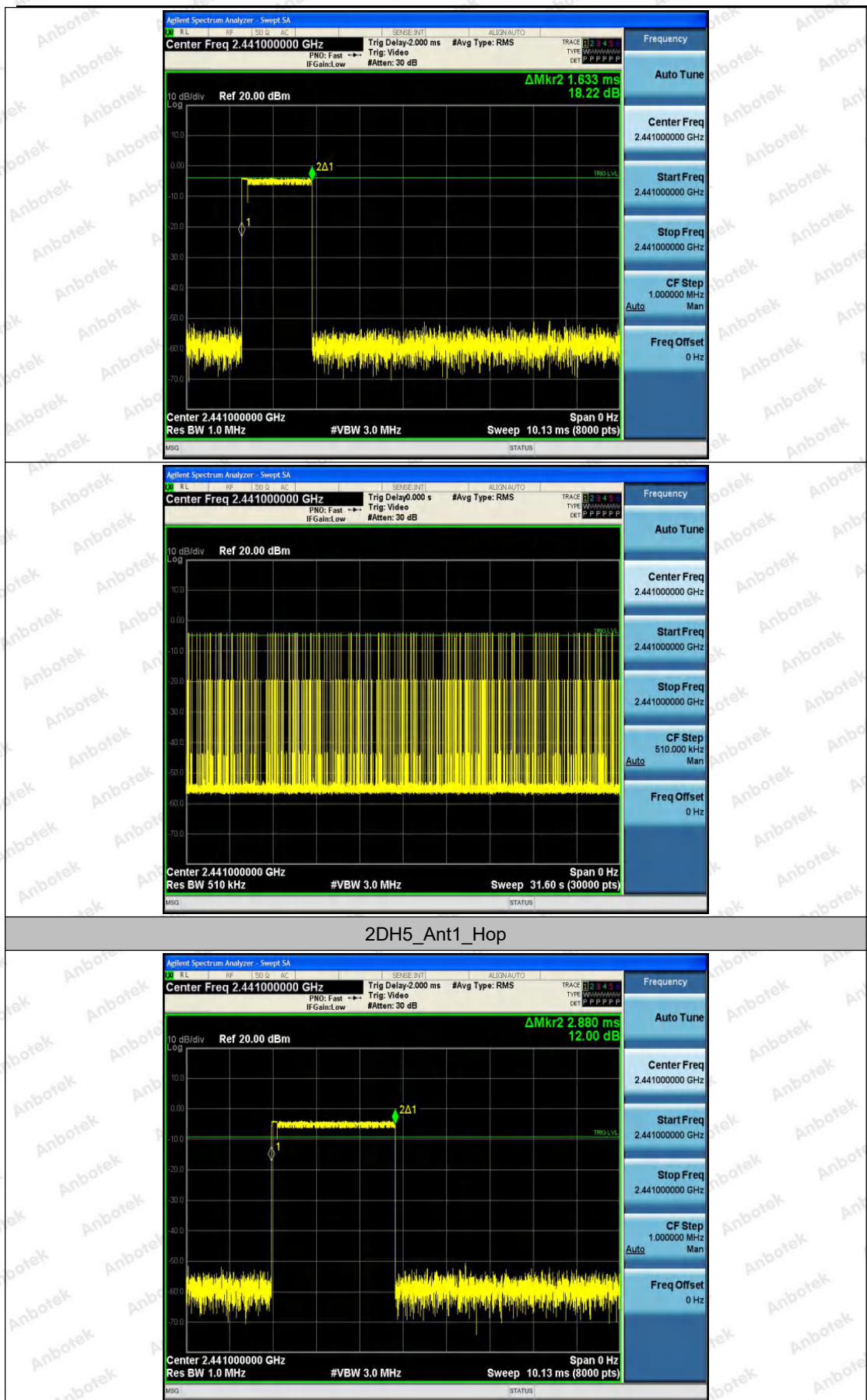
2DH3_Ant1_Hop

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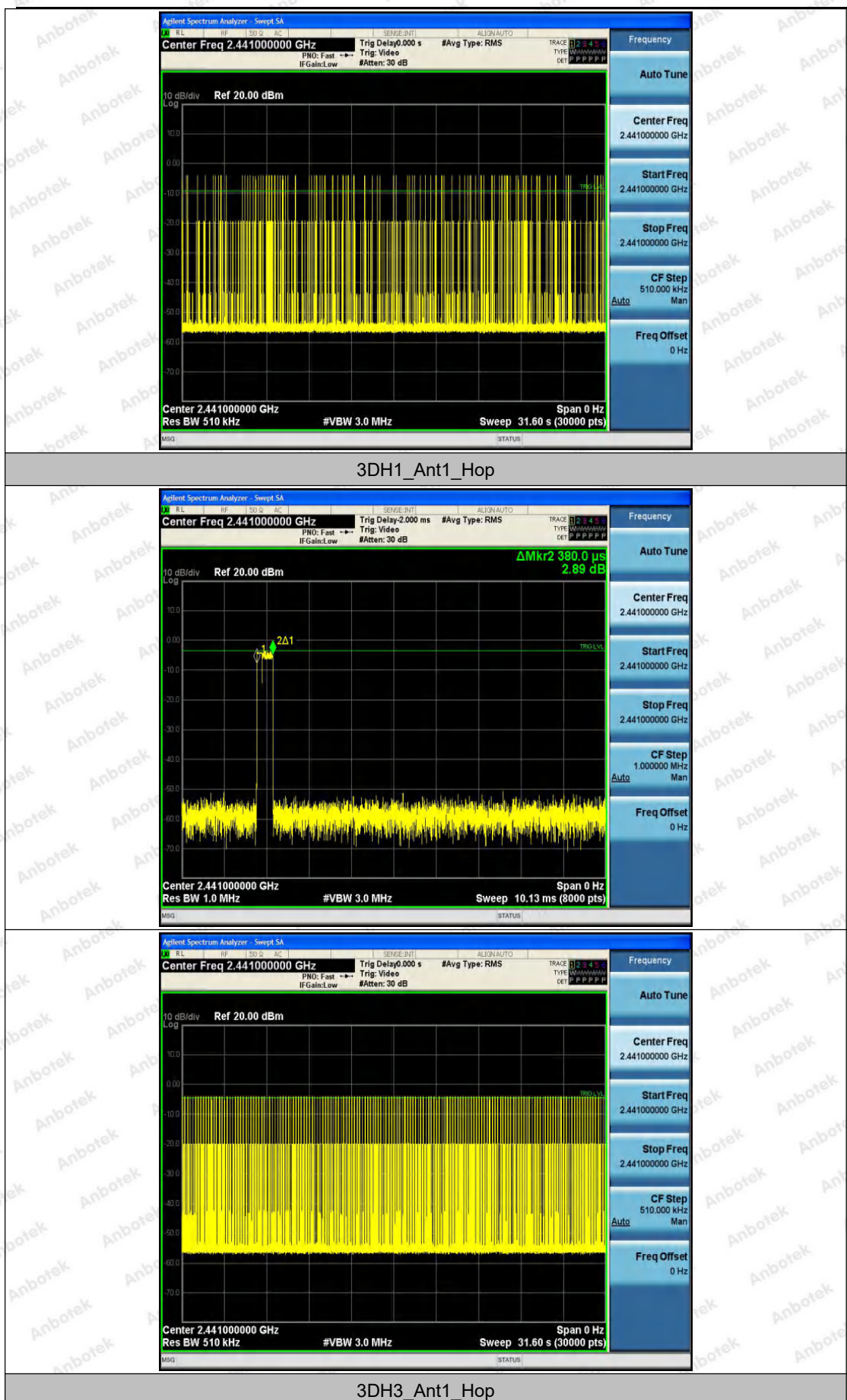
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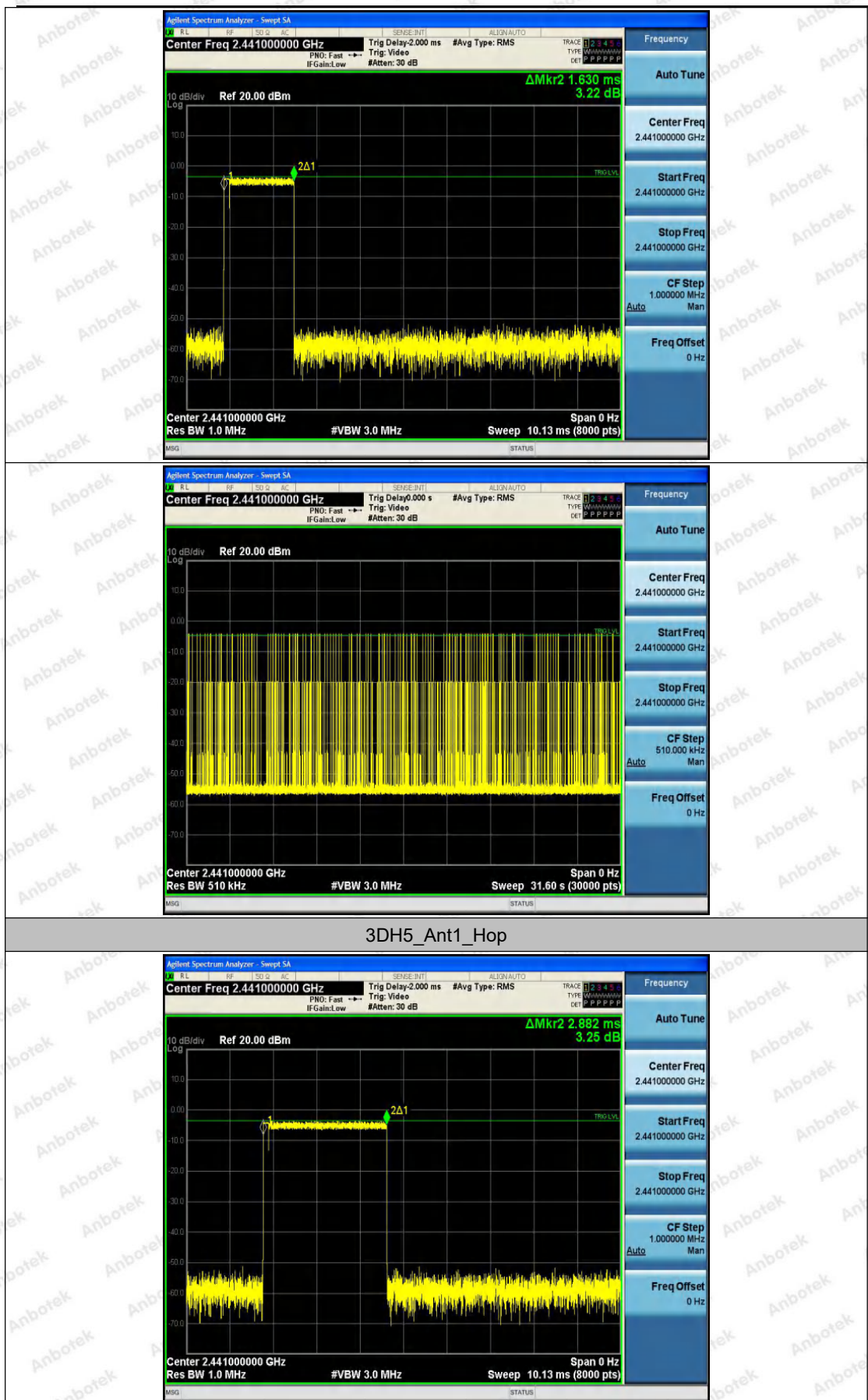


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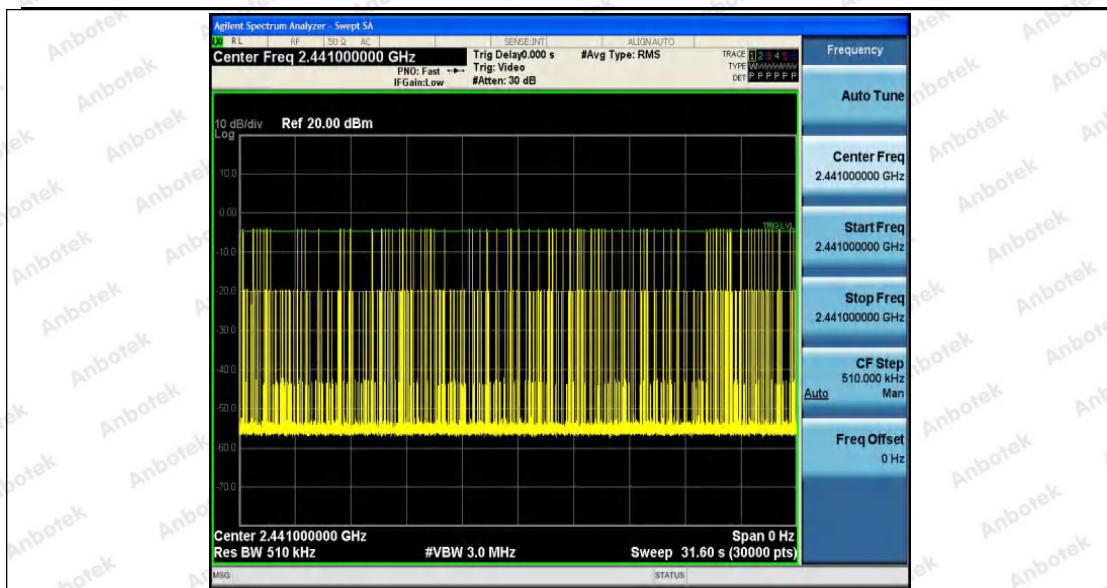


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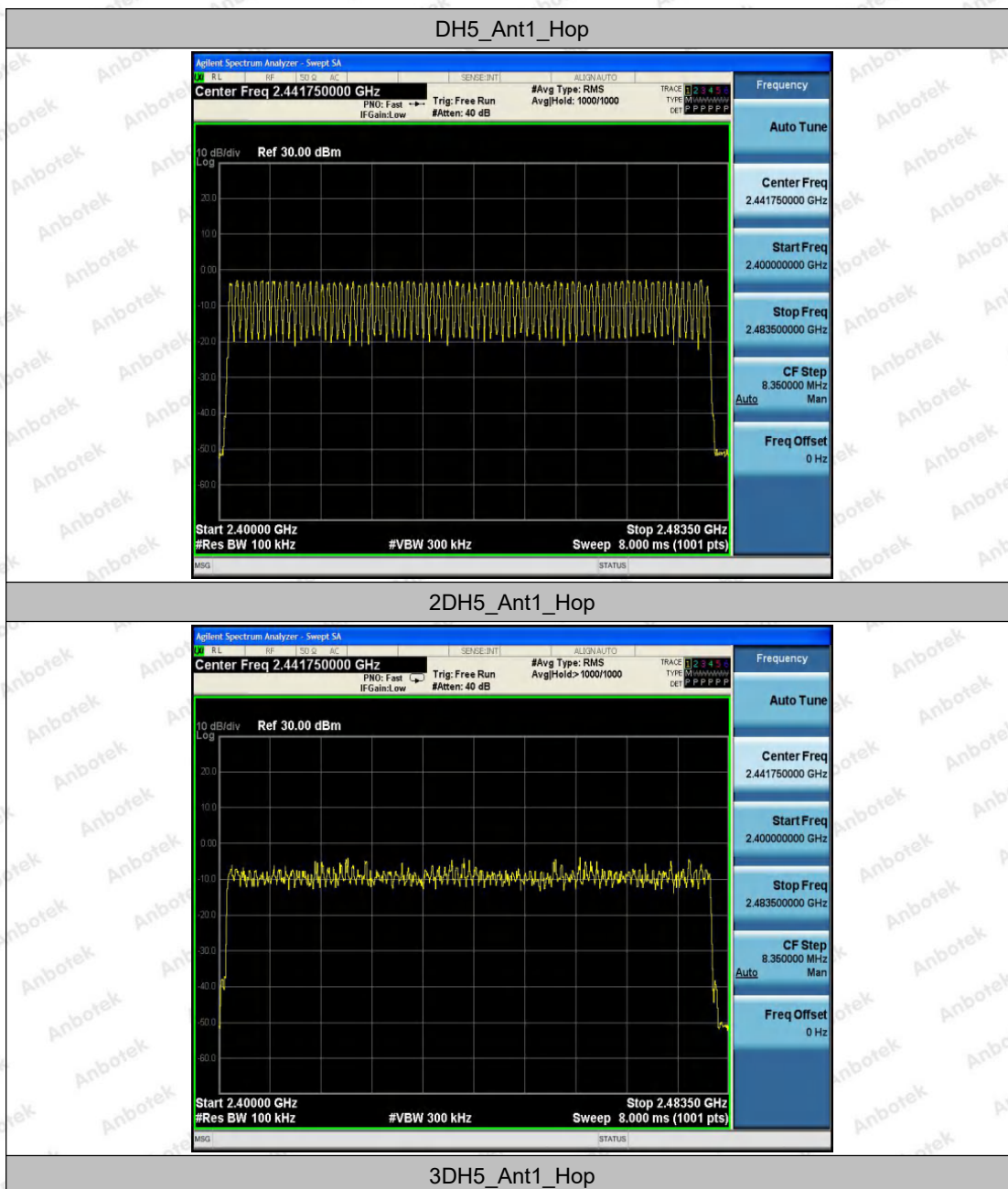
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Appendix F: Number of hopping channels

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

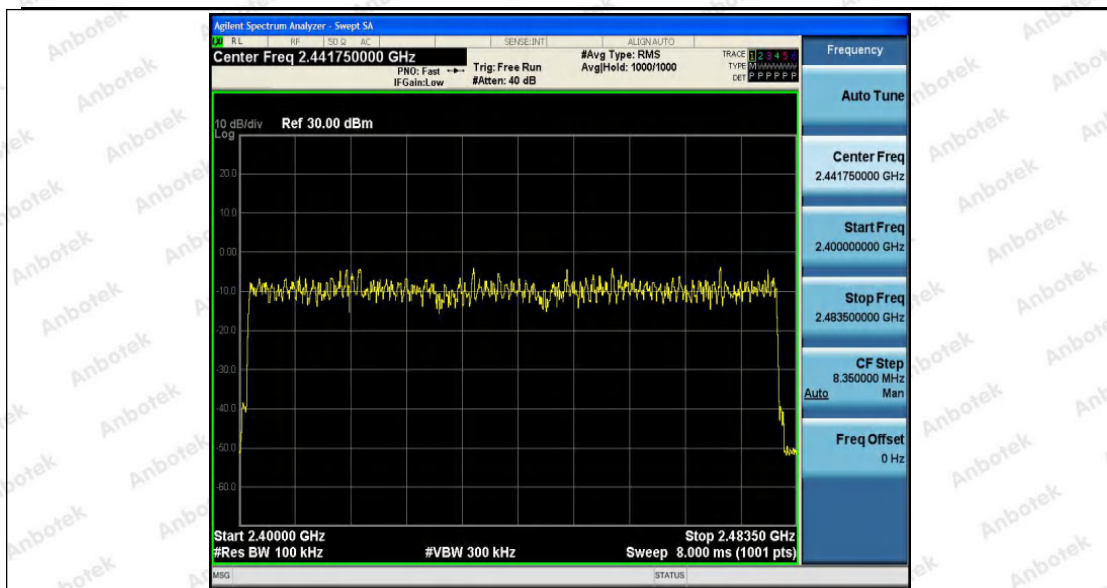


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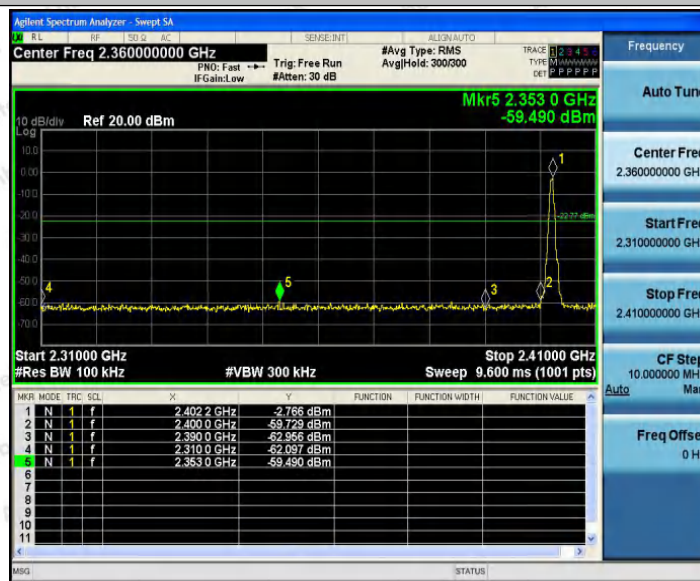
Appendix G: Band edge measurements

Test Result

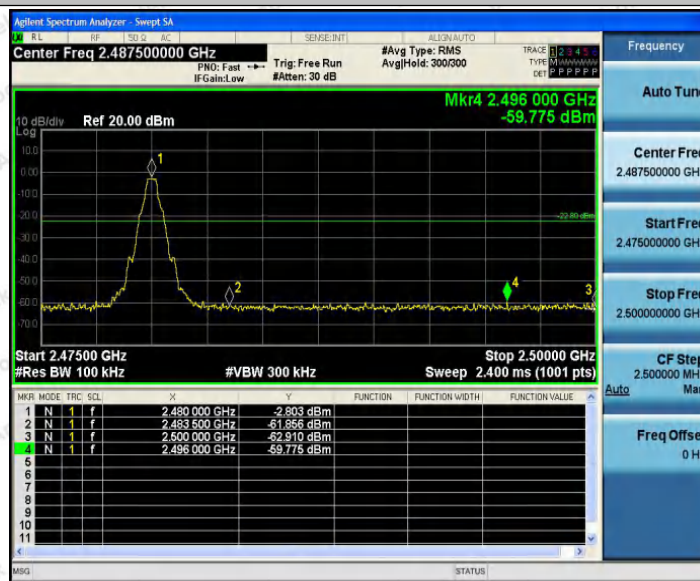
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.77	-59.49	≤ -22.77	PASS
		High	2480	-2.80	-59.78	≤ -22.8	PASS
		Low	Hop	-3.37	-59.53	≤ -23.37	PASS
		High	Hop	-2.83	-63.17	≤ -22.83	PASS
2DH5	Ant1	Low	2402	-4.34	-59.46	≤ -24.34	PASS
		High	2480	-4.23	-59.35	≤ -24.23	PASS
		Low	Hop	-4.72	-59.36	≤ -24.72	PASS
		High	Hop	-5.43	-62.14	≤ -25.43	PASS
3DH5	Ant1	Low	2402	-4.39	-58.58	≤ -24.39	PASS
		High	2480	-3.86	-58.28	≤ -23.86	PASS
		Low	Hop	-6.15	-59.8	≤ -26.15	PASS
		High	Hop	-4.14	-60.46	≤ -24.14	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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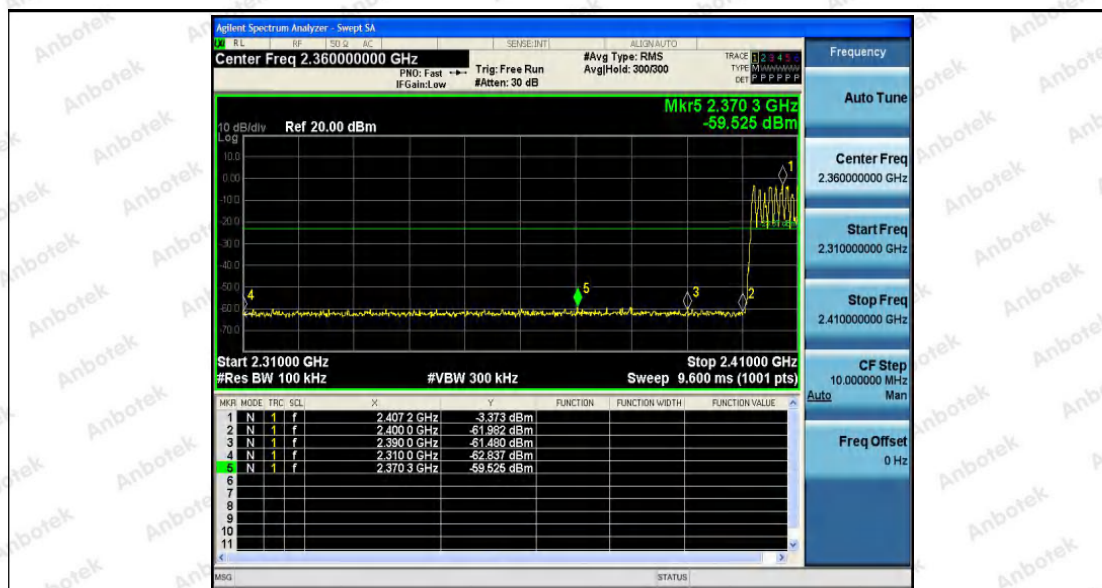
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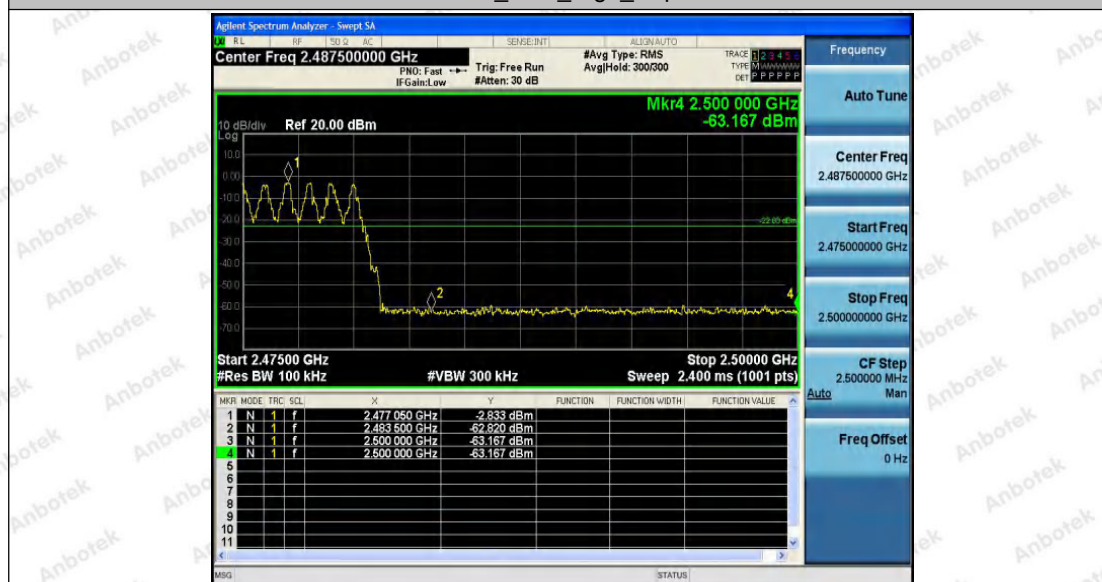
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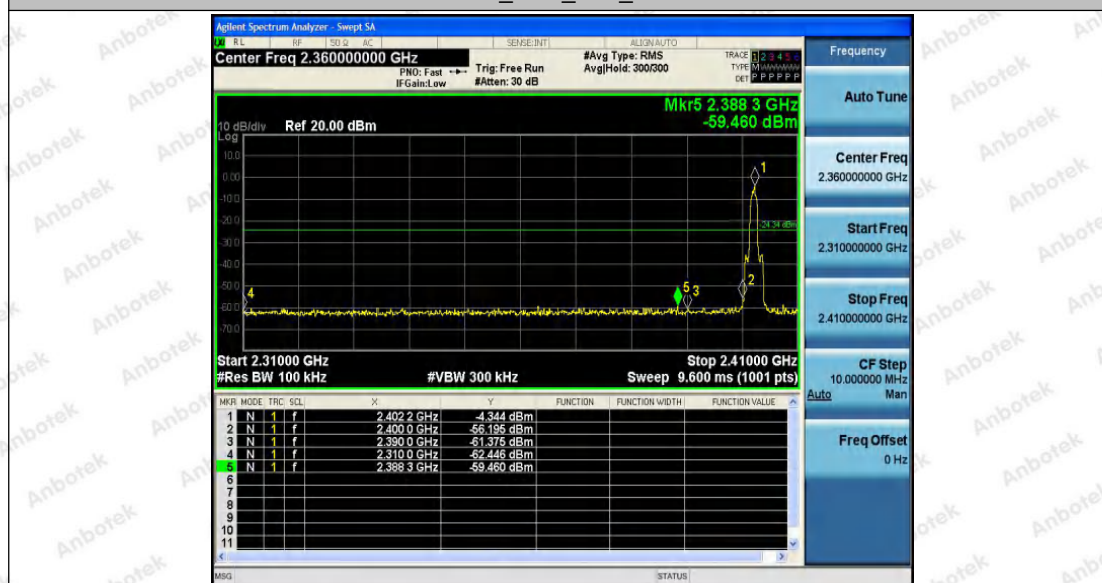
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



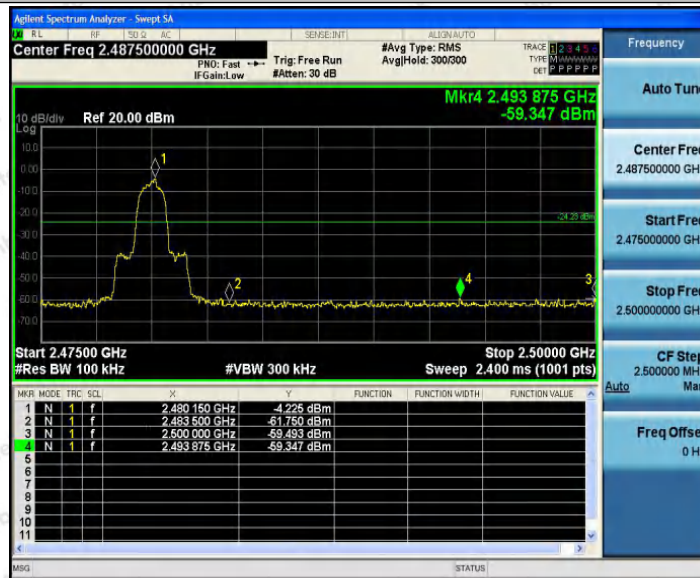
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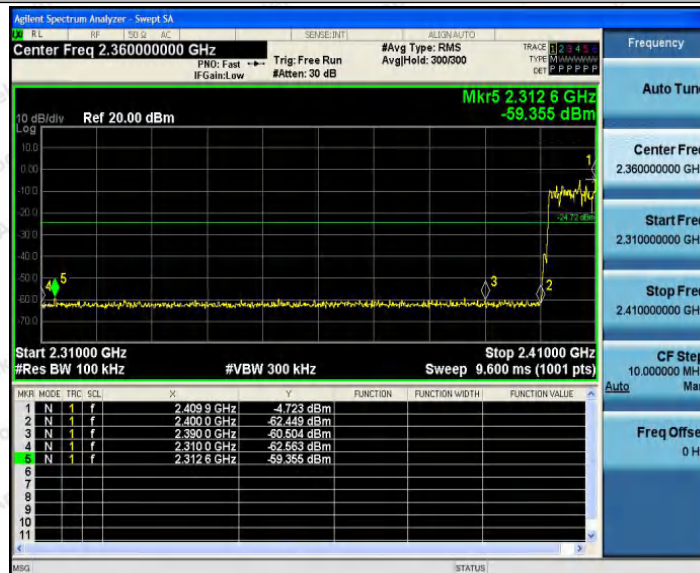
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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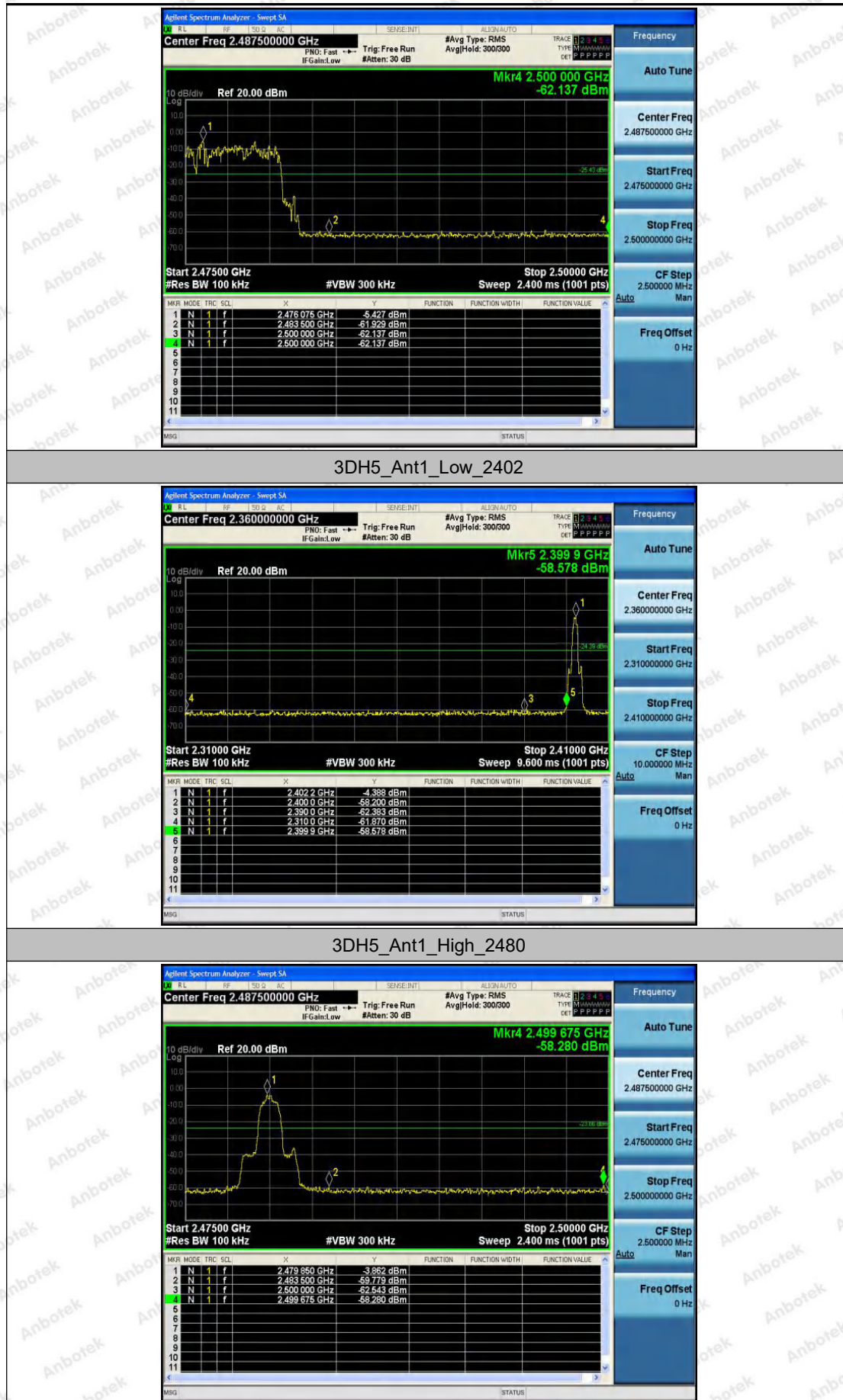
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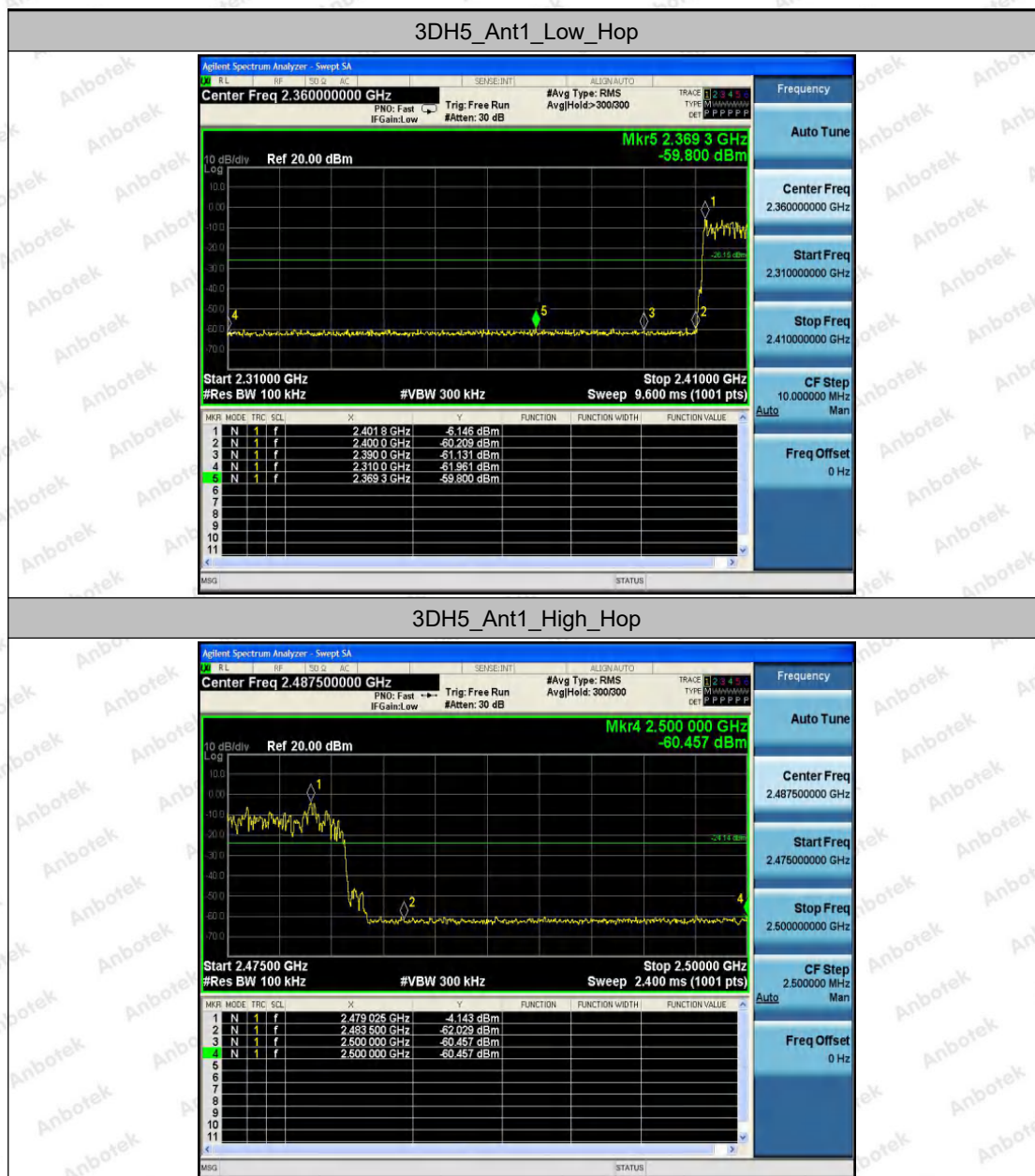


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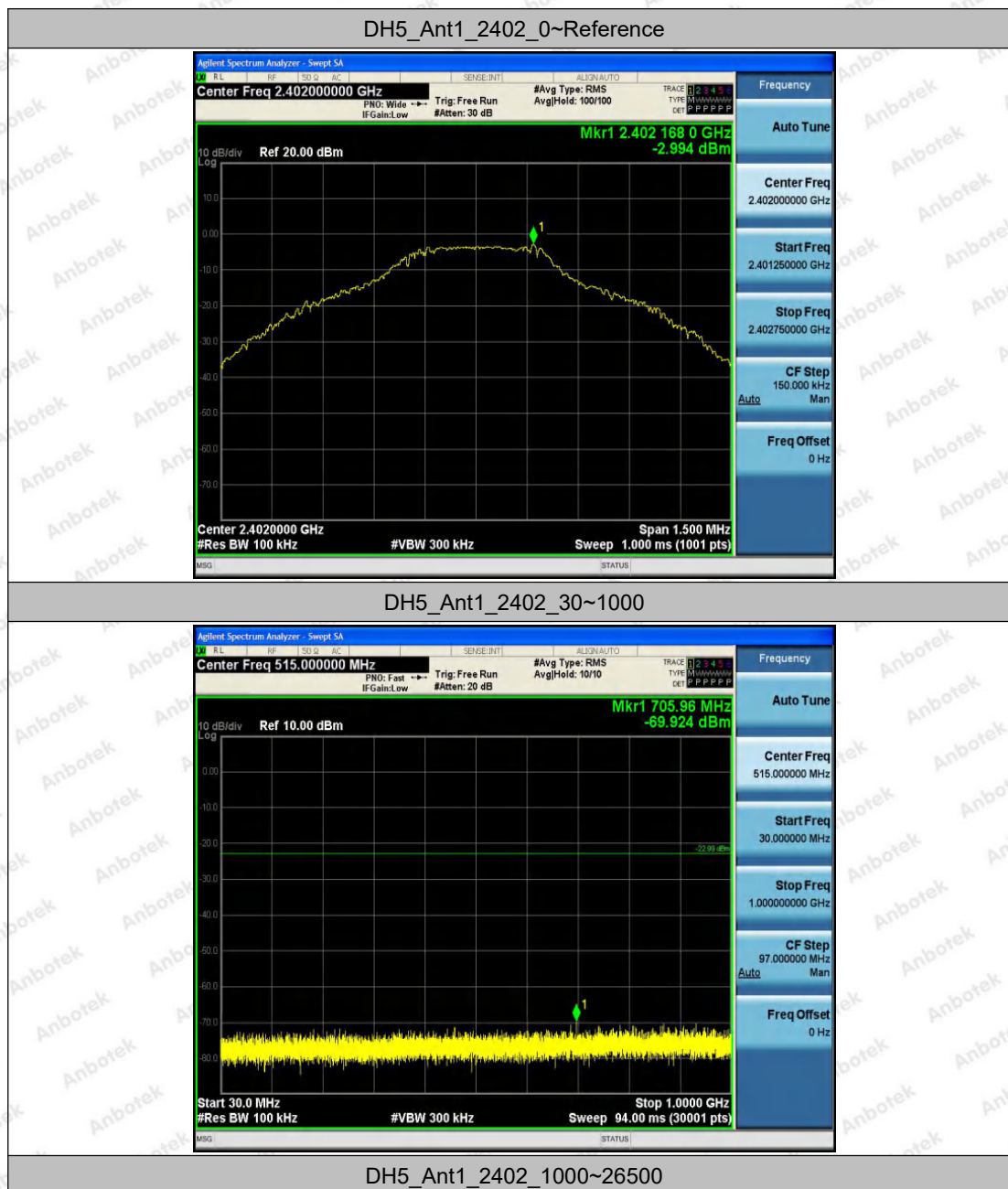
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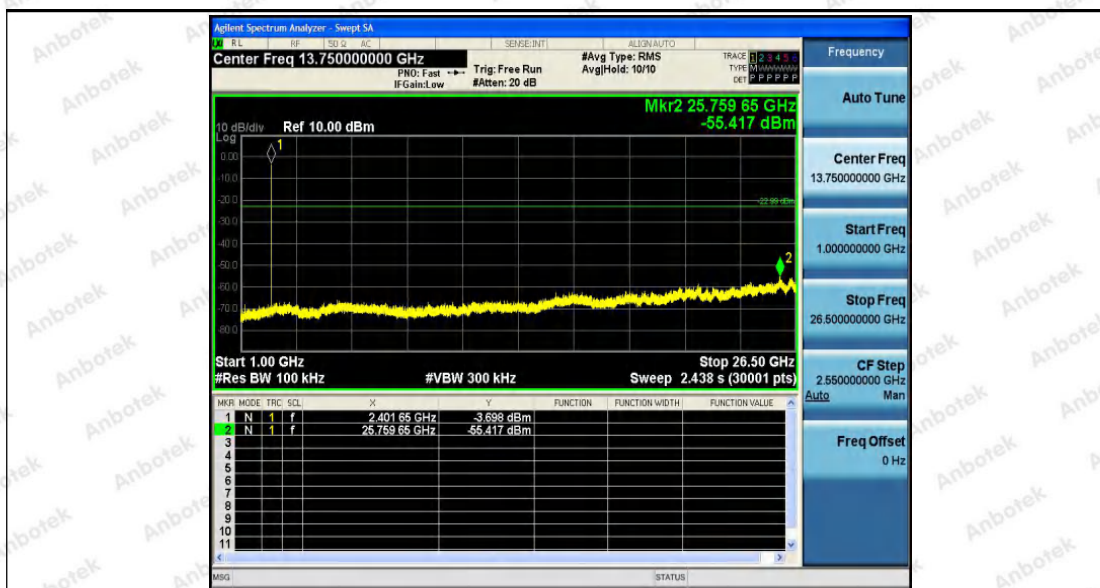
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-69.92	≤-22.99	PASS
			1000~26500	-2.99	-55.42	≤-22.99	PASS
		2441	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-69.38	≤-23.54	PASS
			1000~26500	-3.54	-55.21	≤-23.54	PASS
		2480	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-70.37	≤-22.62	PASS
			1000~26500	-2.62	-55.66	≤-22.62	PASS
2DH5	Ant1	2402	Reference	-4.01	-4.01	---	PASS
			30~1000	-4.01	-70.3	≤-24.01	PASS
			1000~26500	-4.01	-55.62	≤-24.01	PASS
		2441	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-70.47	≤-24.51	PASS
			1000~26500	-4.51	-55.1	≤-24.51	PASS
		2480	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-69.77	≤-24.64	PASS
			1000~26500	-4.64	-54.91	≤-24.64	PASS
3DH5	Ant1	2402	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-70.3	≤-24.24	PASS
			1000~26500	-4.24	-55.46	≤-24.24	PASS
		2441	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-69.43	≤-24.23	PASS
			1000~26500	-4.23	-55.61	≤-24.23	PASS
		2480	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-70.41	≤-24.55	PASS
			1000~26500	-4.55	-55.47	≤-24.55	PASS

Test Graphs

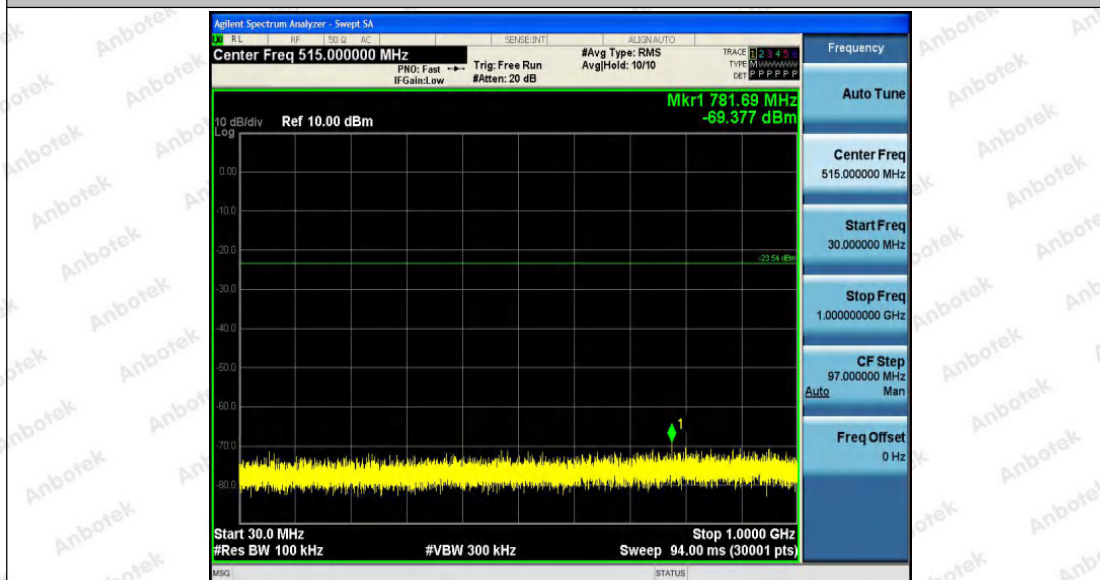




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



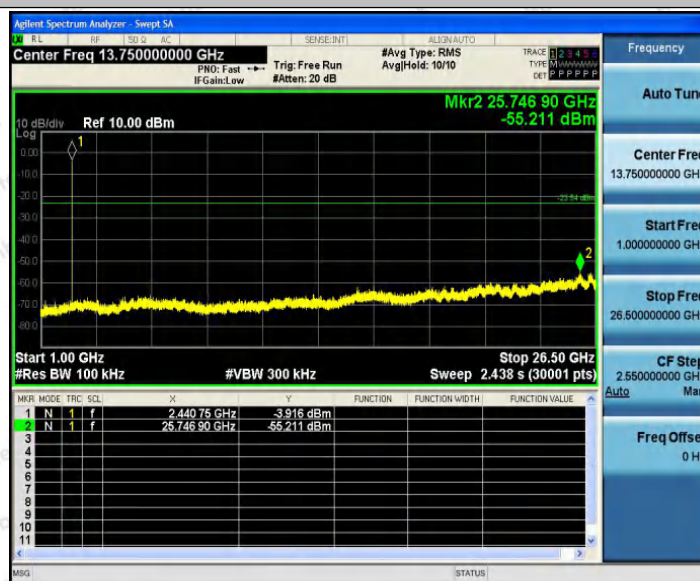
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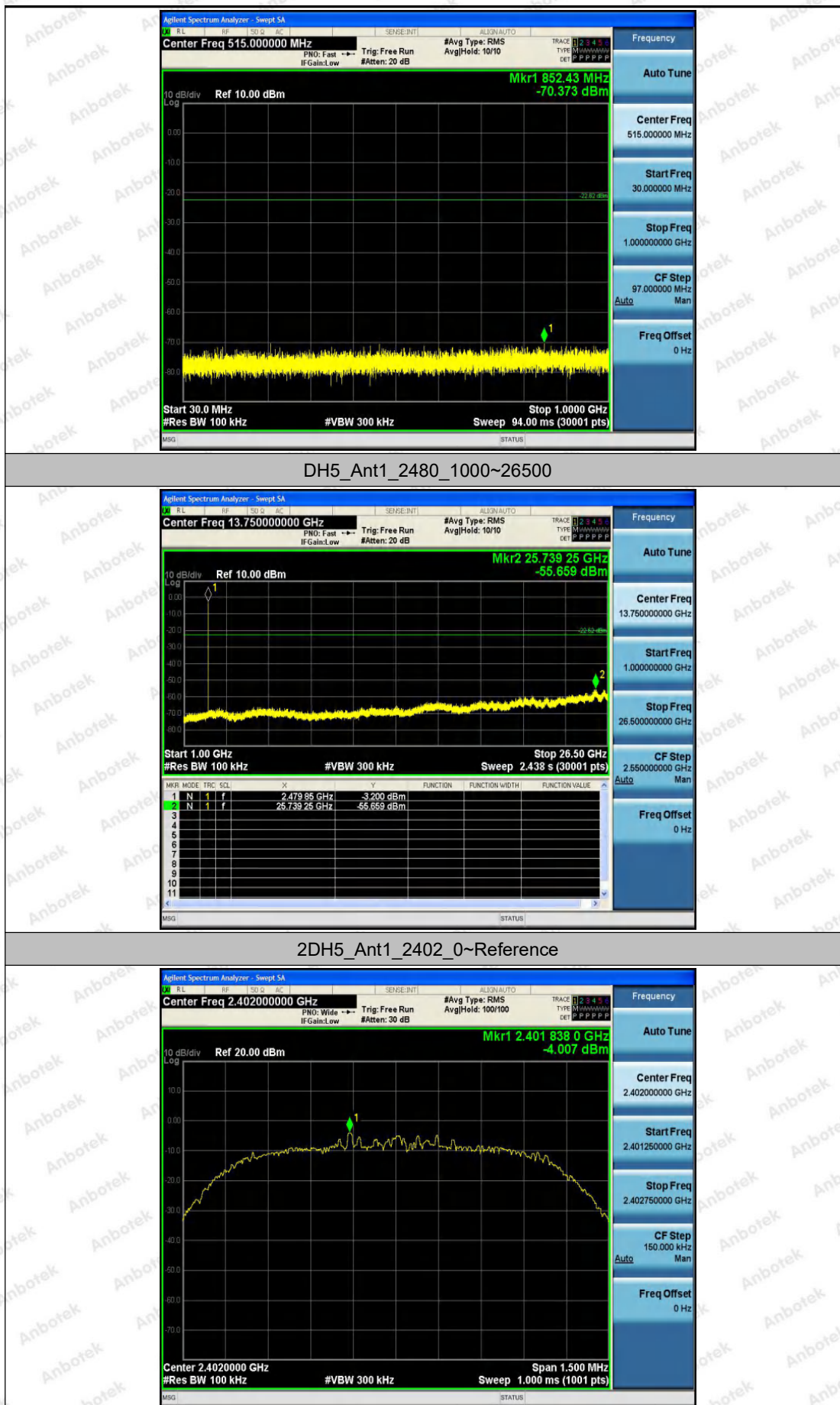
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

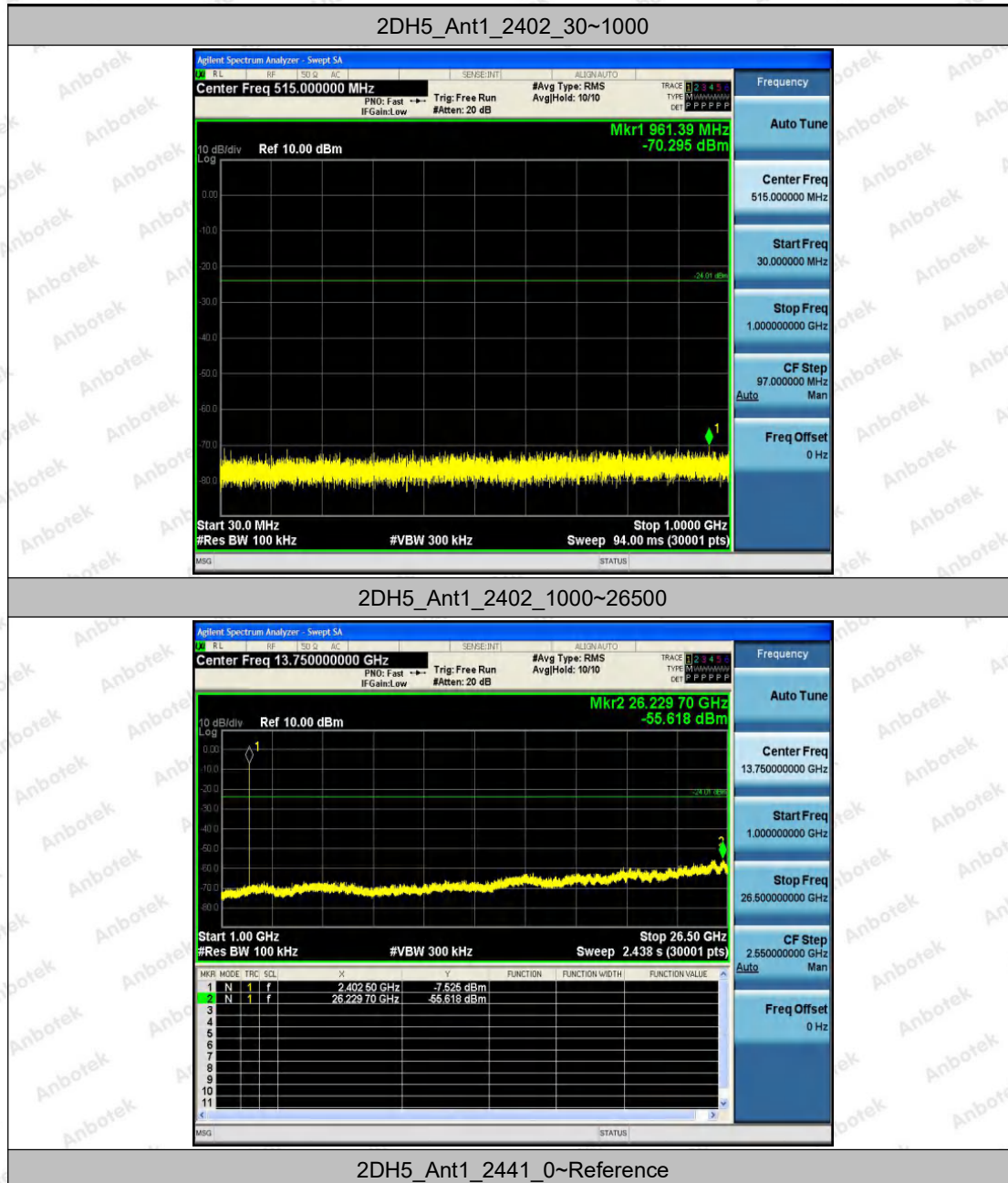


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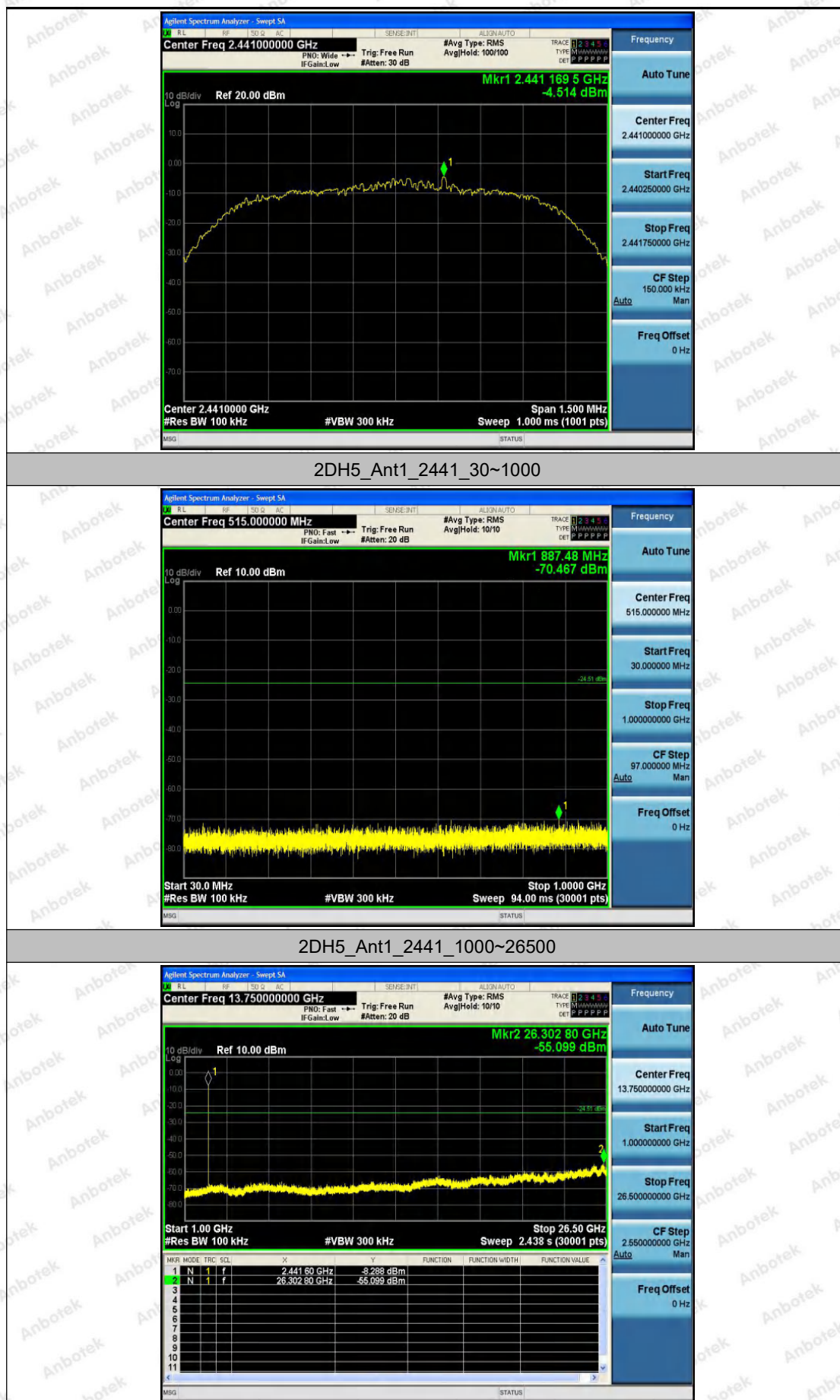
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



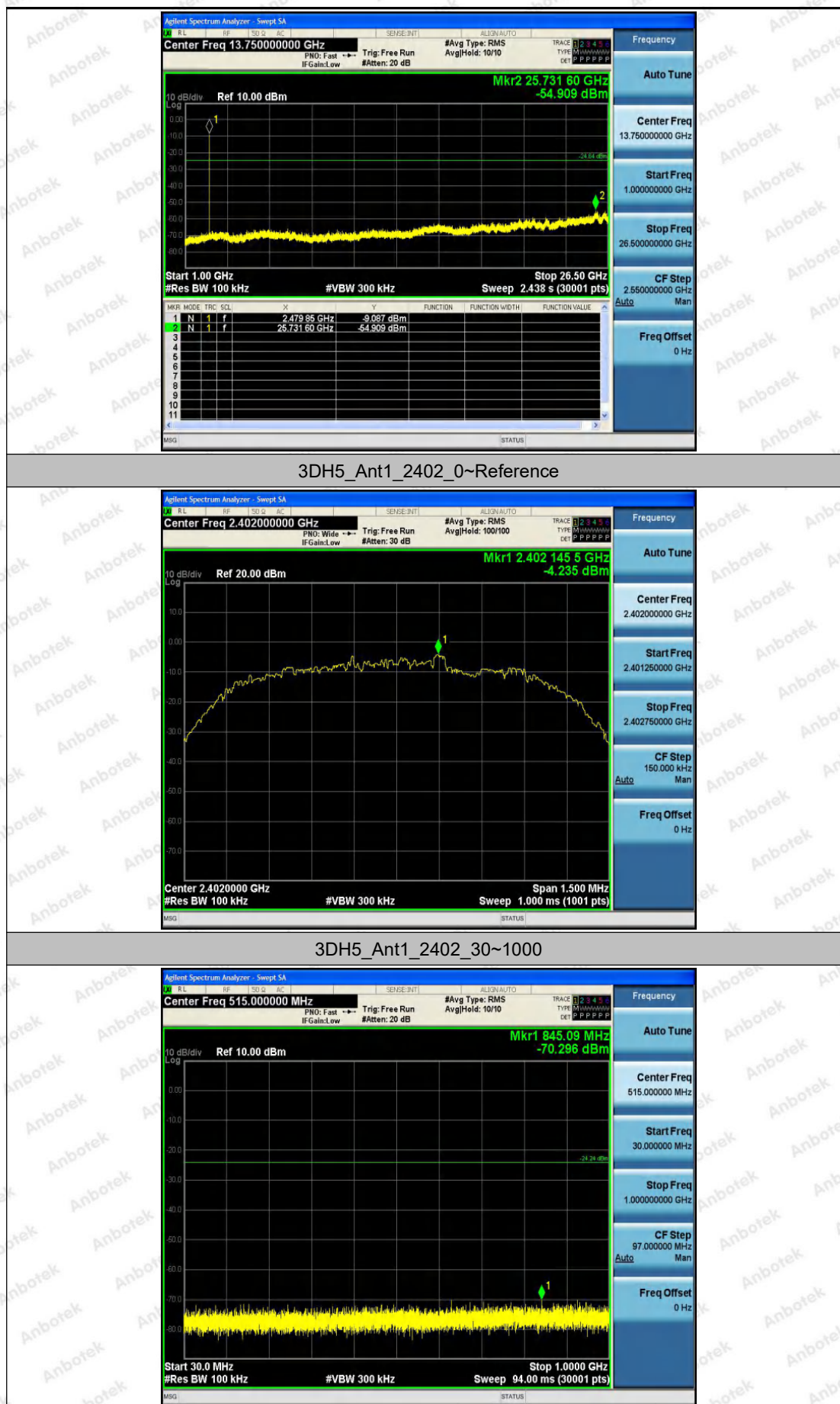
2DH5_Ant1_2480_1000~26500

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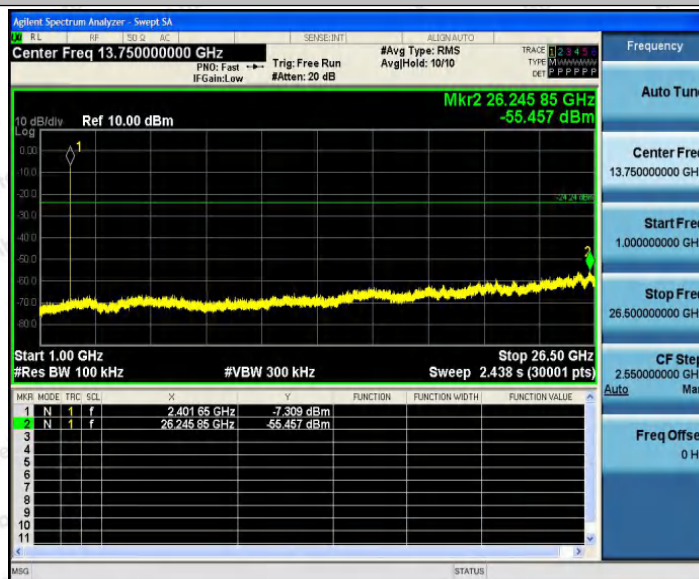
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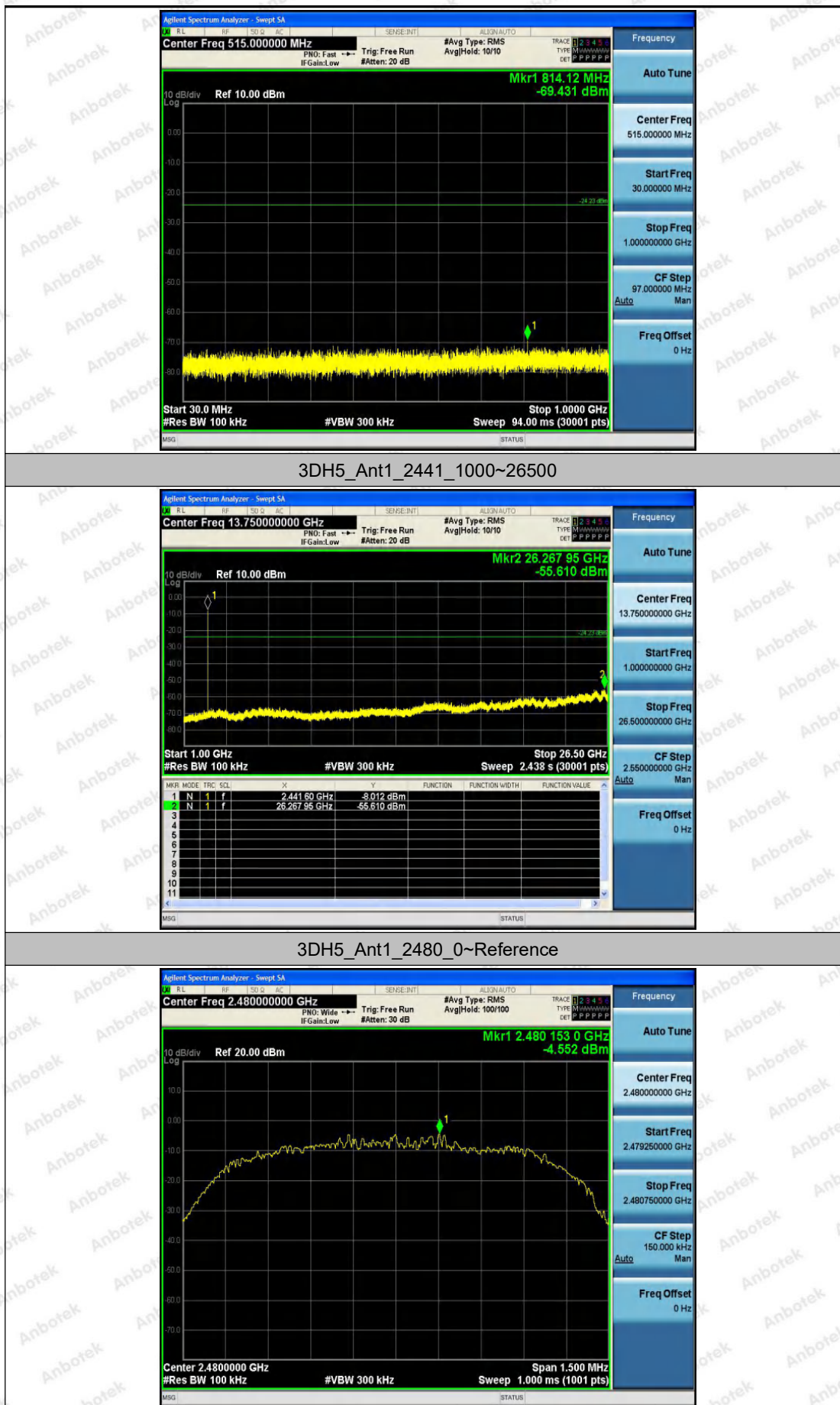
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

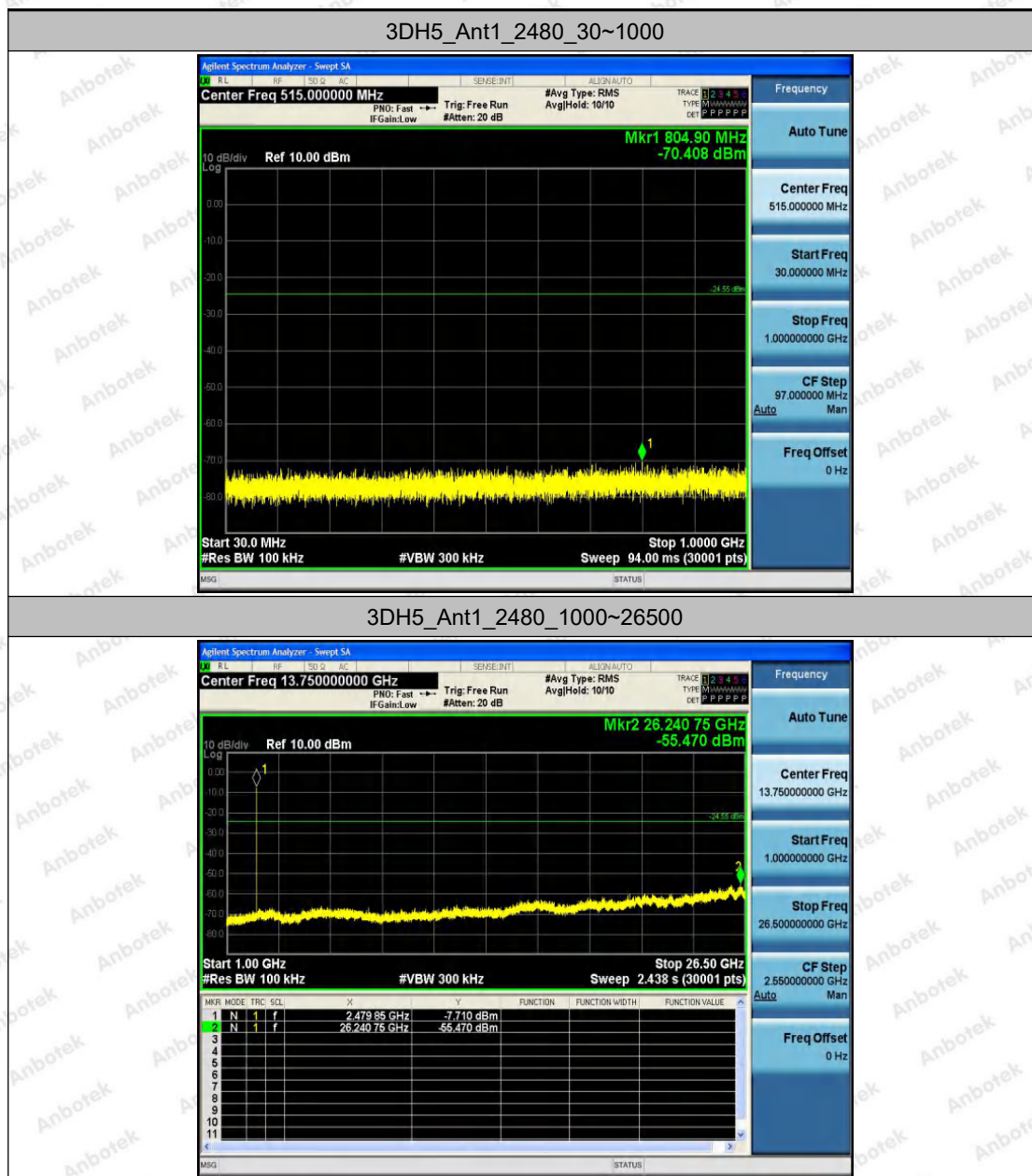


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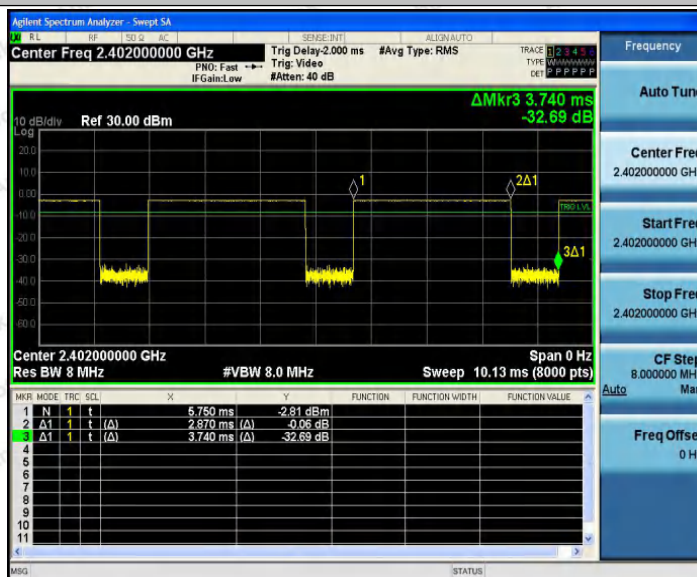
Appendix I: Duty Cycle

Test Result

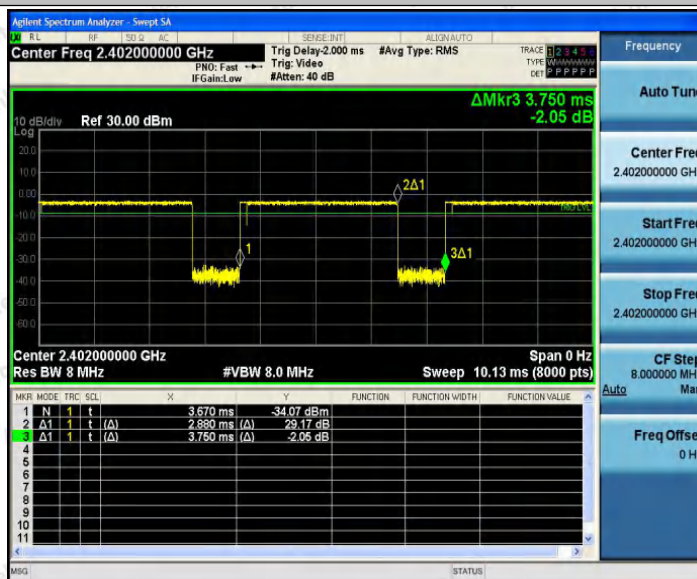
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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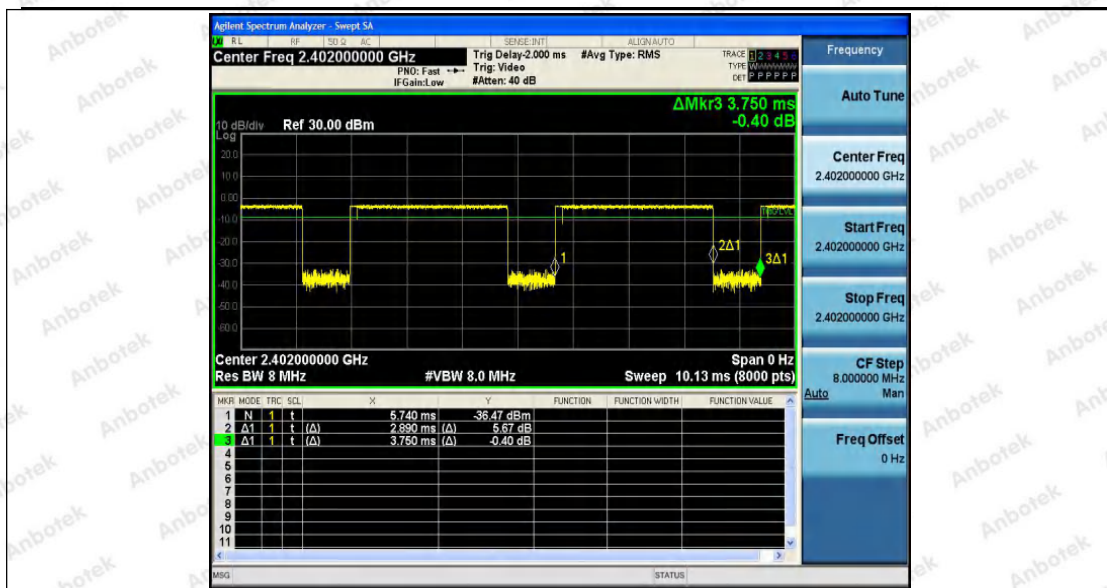
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