

Appendix Test Data

Report No.:	18220WC20139201	Test Sample No.:	1-2-2
Start Test Date:	2022.6.28	Finish Test Date:	2022.7.11
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	51.8 %
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	0.951	2440.535	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.317	2401.340	2402.657	---	PASS
		2441	1.314	2440.340	2441.654	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.281	2401.349	2402.630	---	PASS
		2441	1.314	2440.343	2441.657	---	PASS
		2480	1.296	2479.346	2480.642	---	PASS

Test Graphs

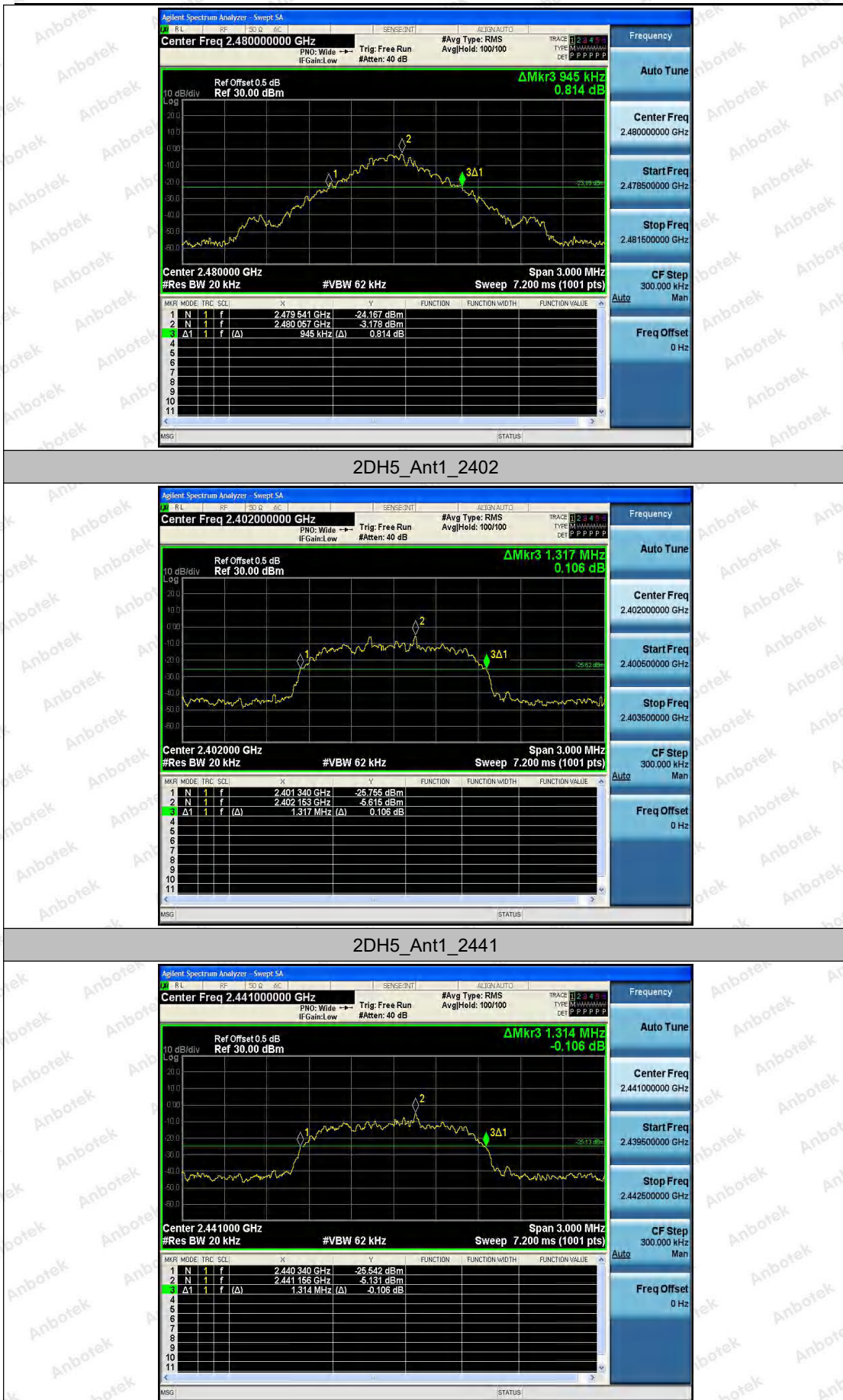


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2DH5_Ant1_2480



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	0.88247	2401.55 5	2402.437	---	PASS
		2441	0.89067	2440.55 4	2441.445	---	PASS
		2480	0.88803	2479.55 8	2480.446	---	PASS
2DH5	Ant1	2402	1.1857	2401.40 7	2402.592	---	PASS
		2441	1.1979	2440.40 1	2441.599	---	PASS
		2480	1.2006	2479.40 0	2480.600	---	PASS
3DH5	Ant1	2402	1.2004	2401.39 1	2402.591	---	PASS
		2441	1.2046	2440.38 9	2441.593	---	PASS
		2480	1.2110	2479.38 6	2480.597	---	PASS

Test Graphs

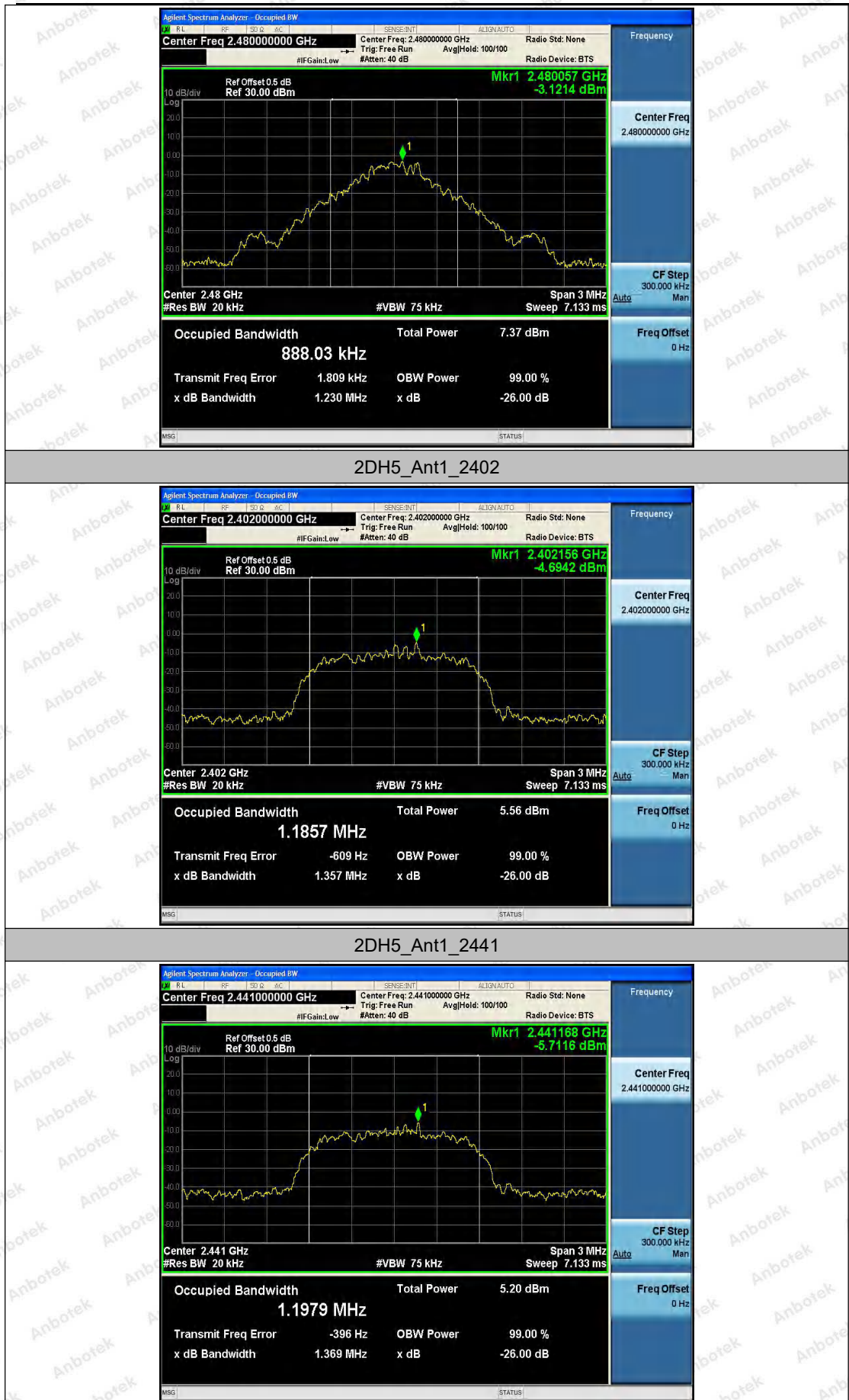


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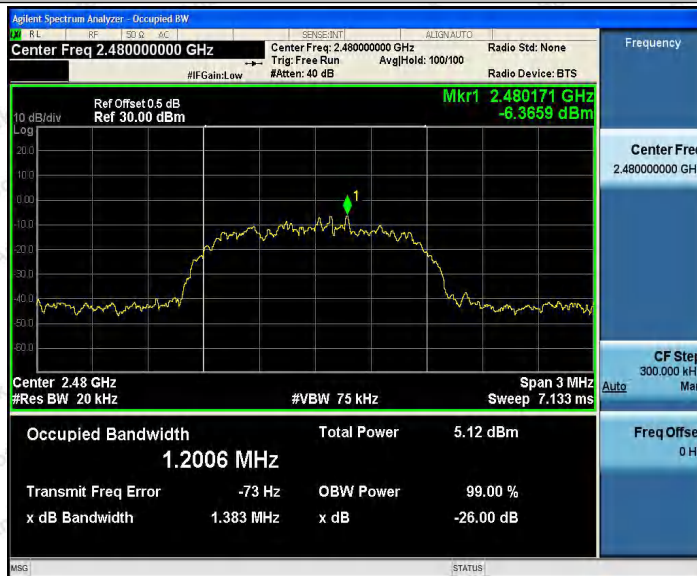
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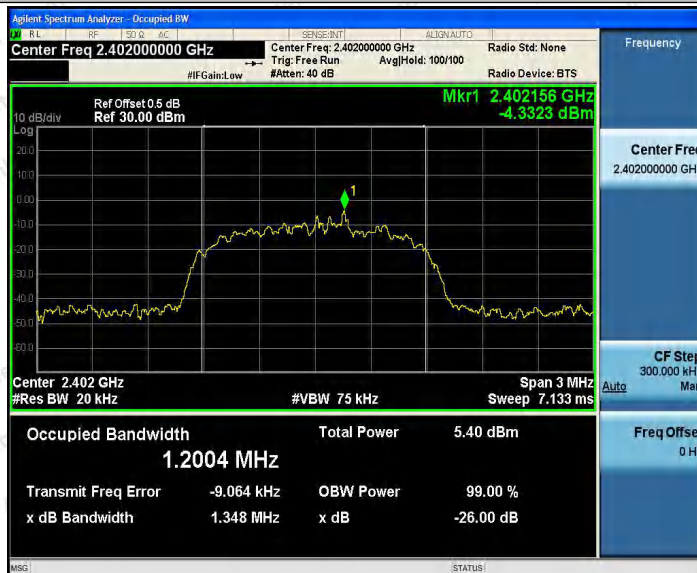
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2DH5_Ant1_2480



3DH5_Ant1_2402



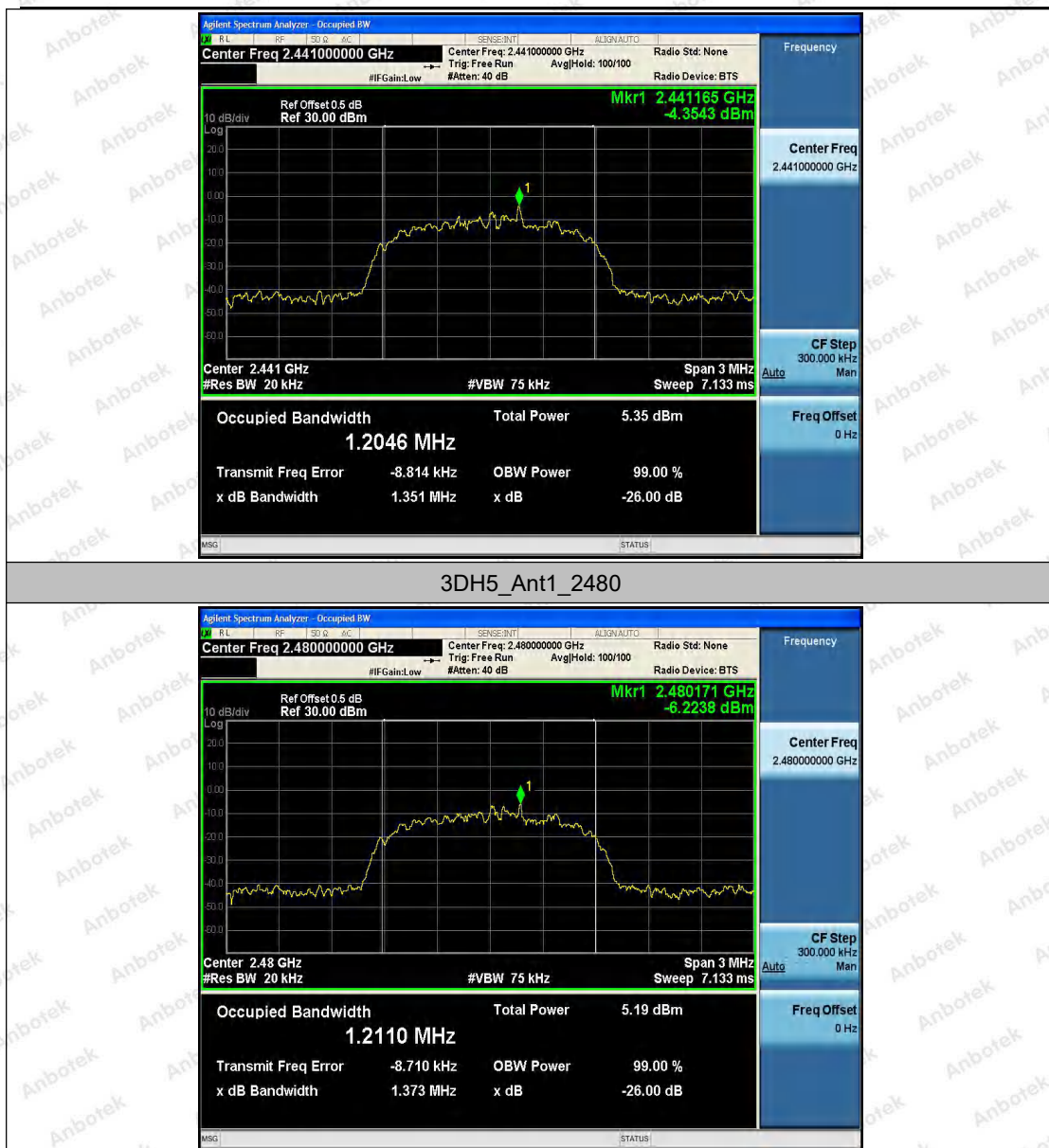
3DH5_Ant1_2441

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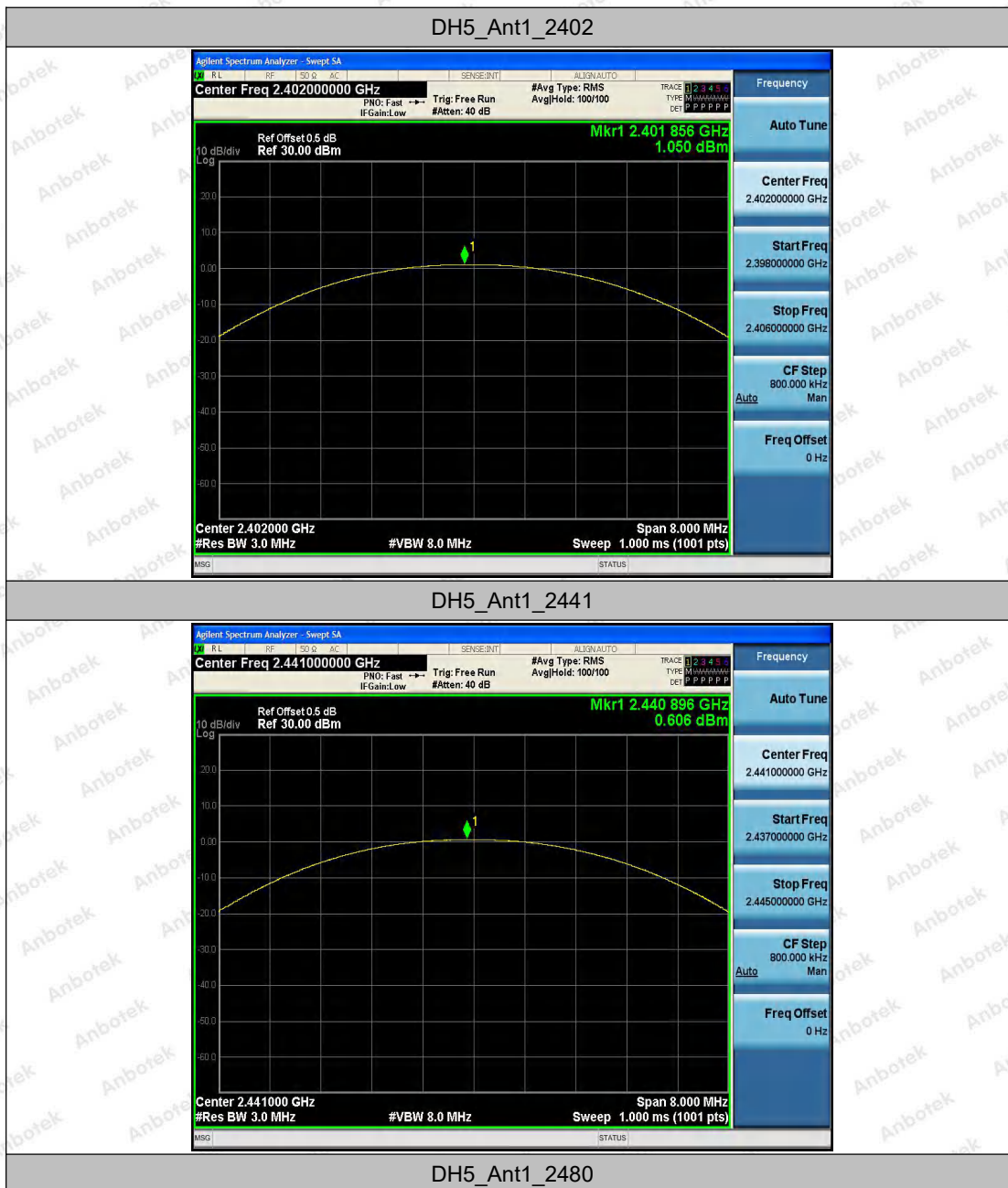


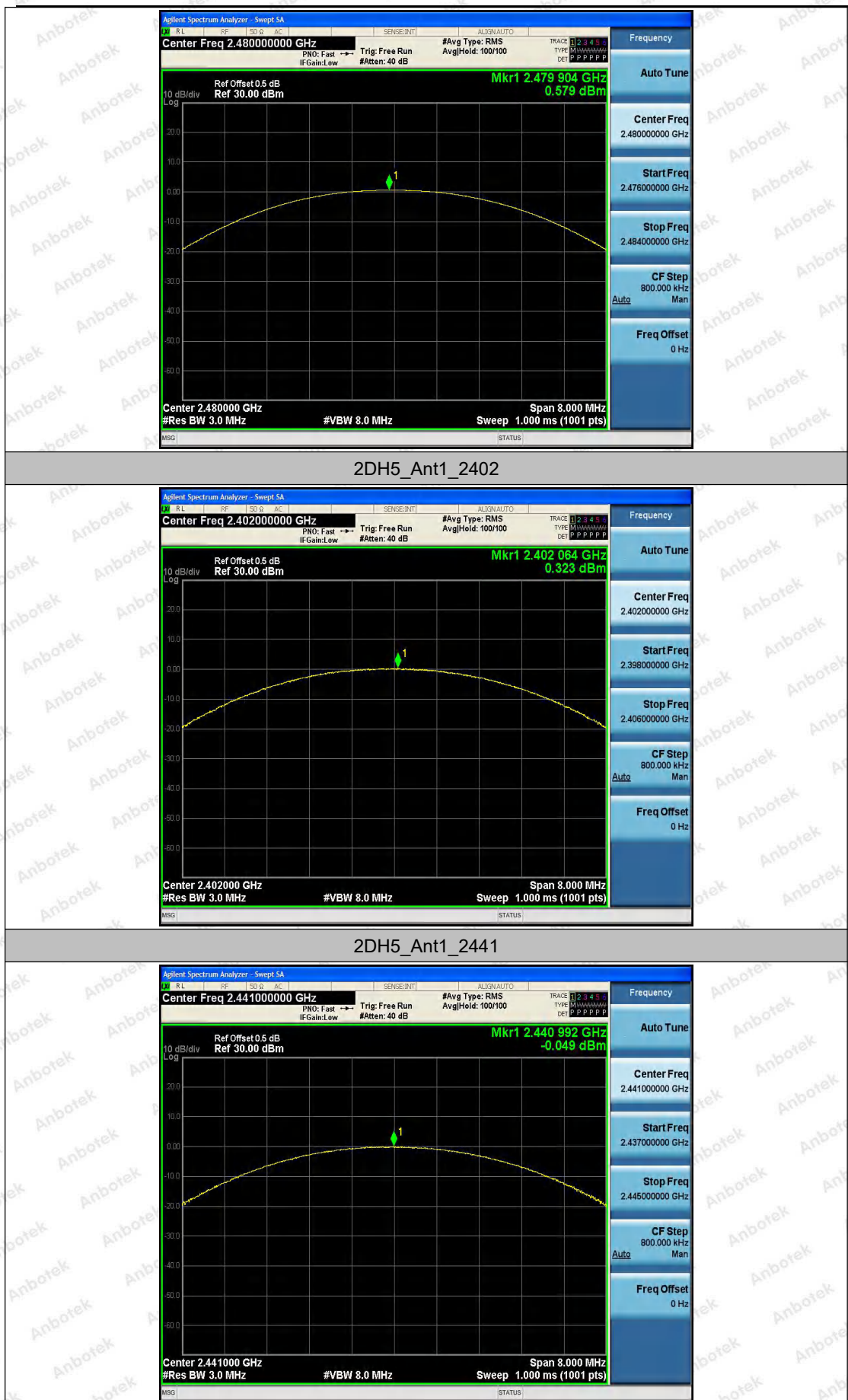
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.05	≤20.97	PASS
		2441	0.61	≤20.97	PASS
		2480	0.58	≤20.97	PASS
2DH5	Ant1	2402	0.32	≤20.97	PASS
		2441	-0.05	≤20.97	PASS
		2480	-0.04	≤20.97	PASS
3DH5	Ant1	2402	0.44	≤20.97	PASS
		2441	0.08	≤20.97	PASS
		2480	0.06	≤20.97	PASS

Test Graphs



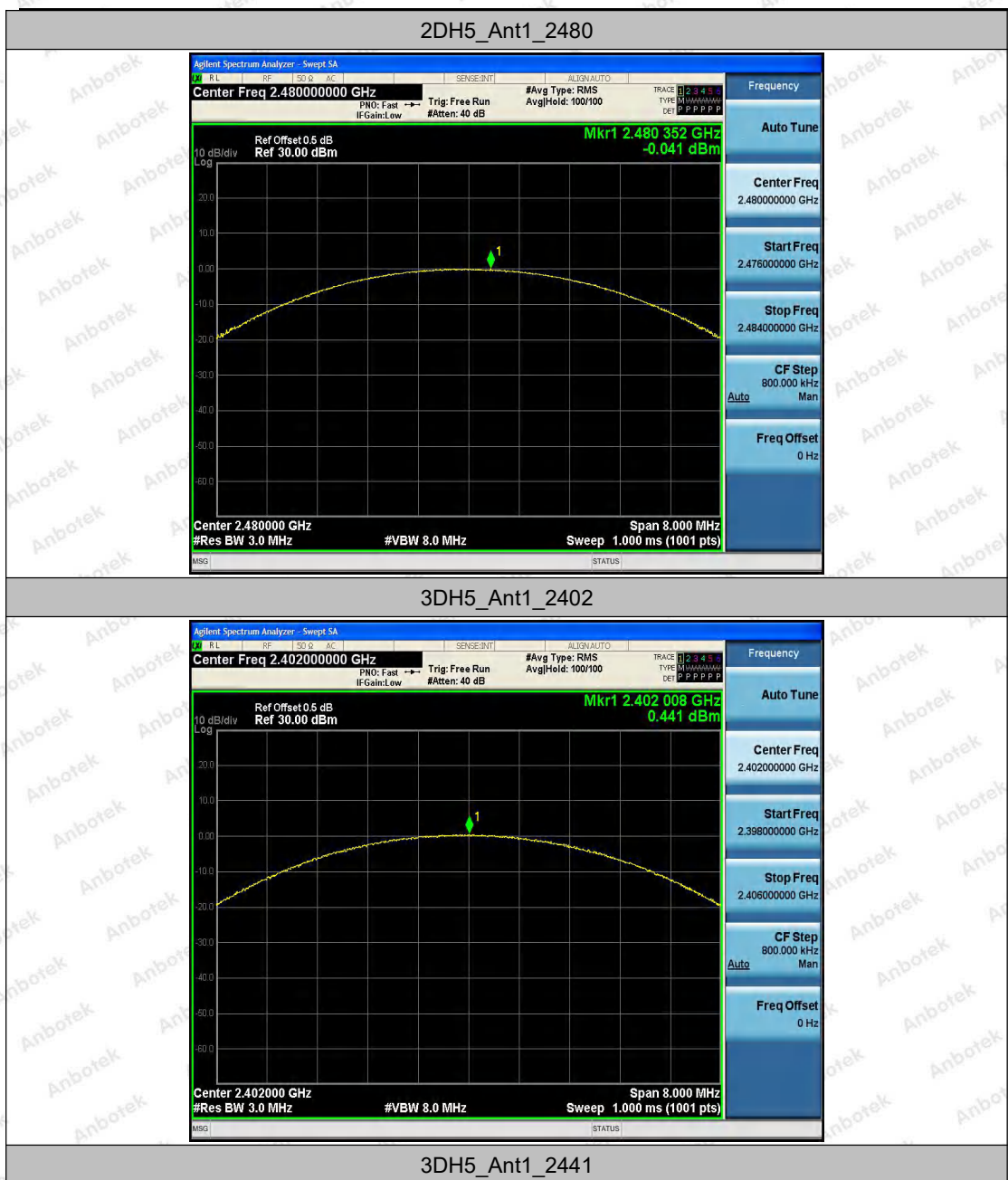


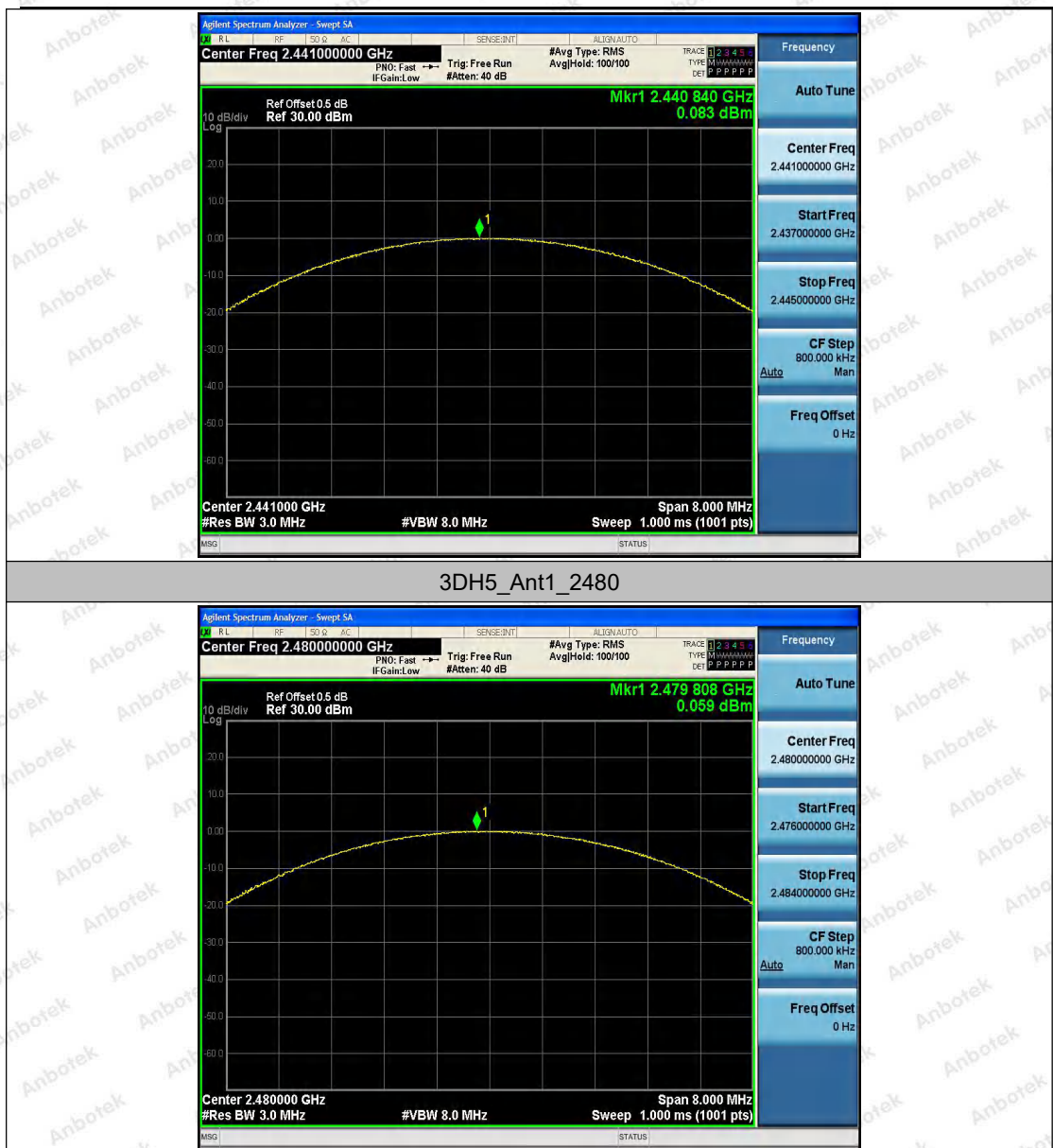
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.896	≥ 0.634	PASS
2DH5	Ant1	Hop	1.132	≥ 0.882	PASS
3DH5	Ant1	Hop	1.066	≥ 0.876	PASS

Test Graphs



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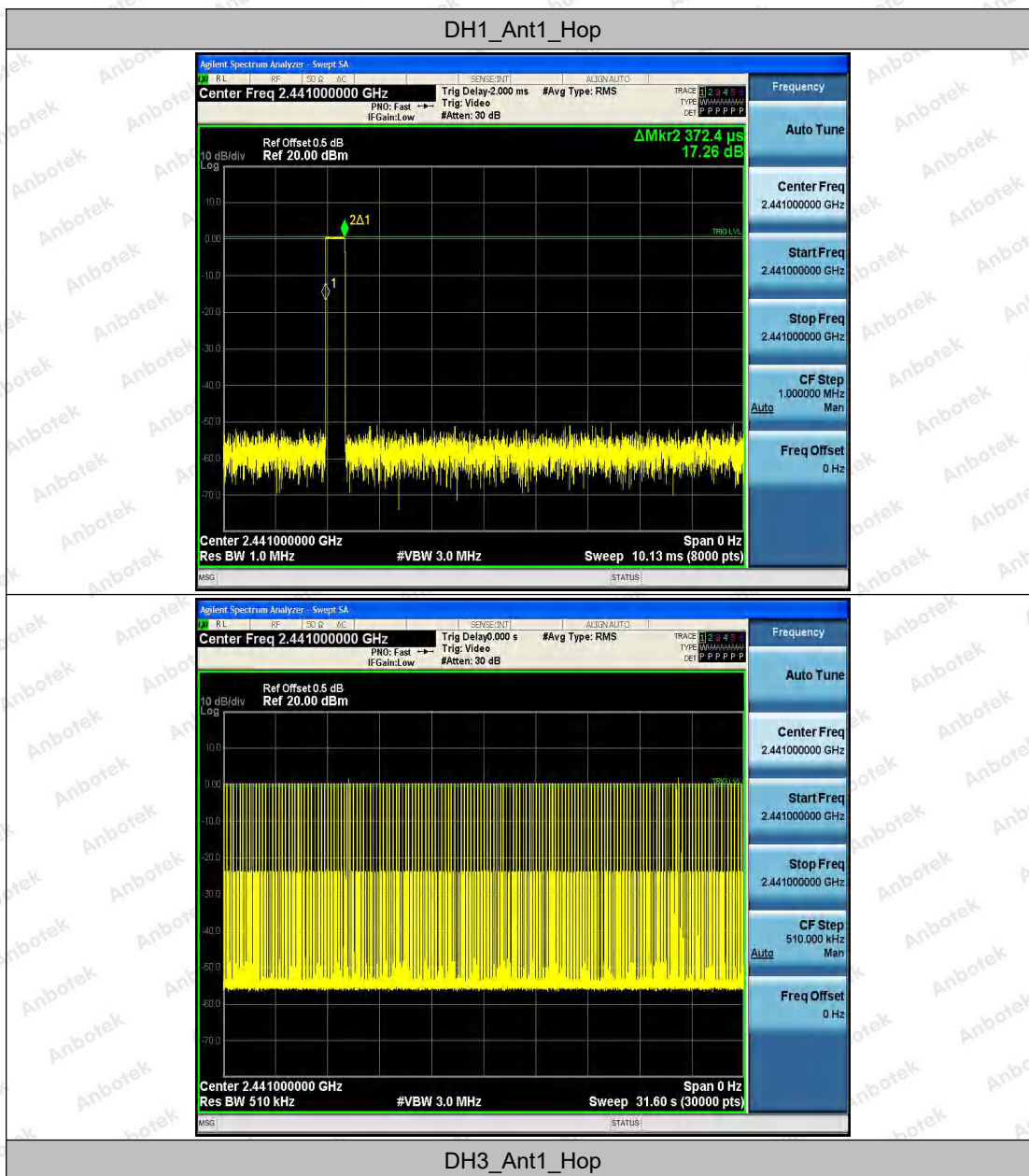
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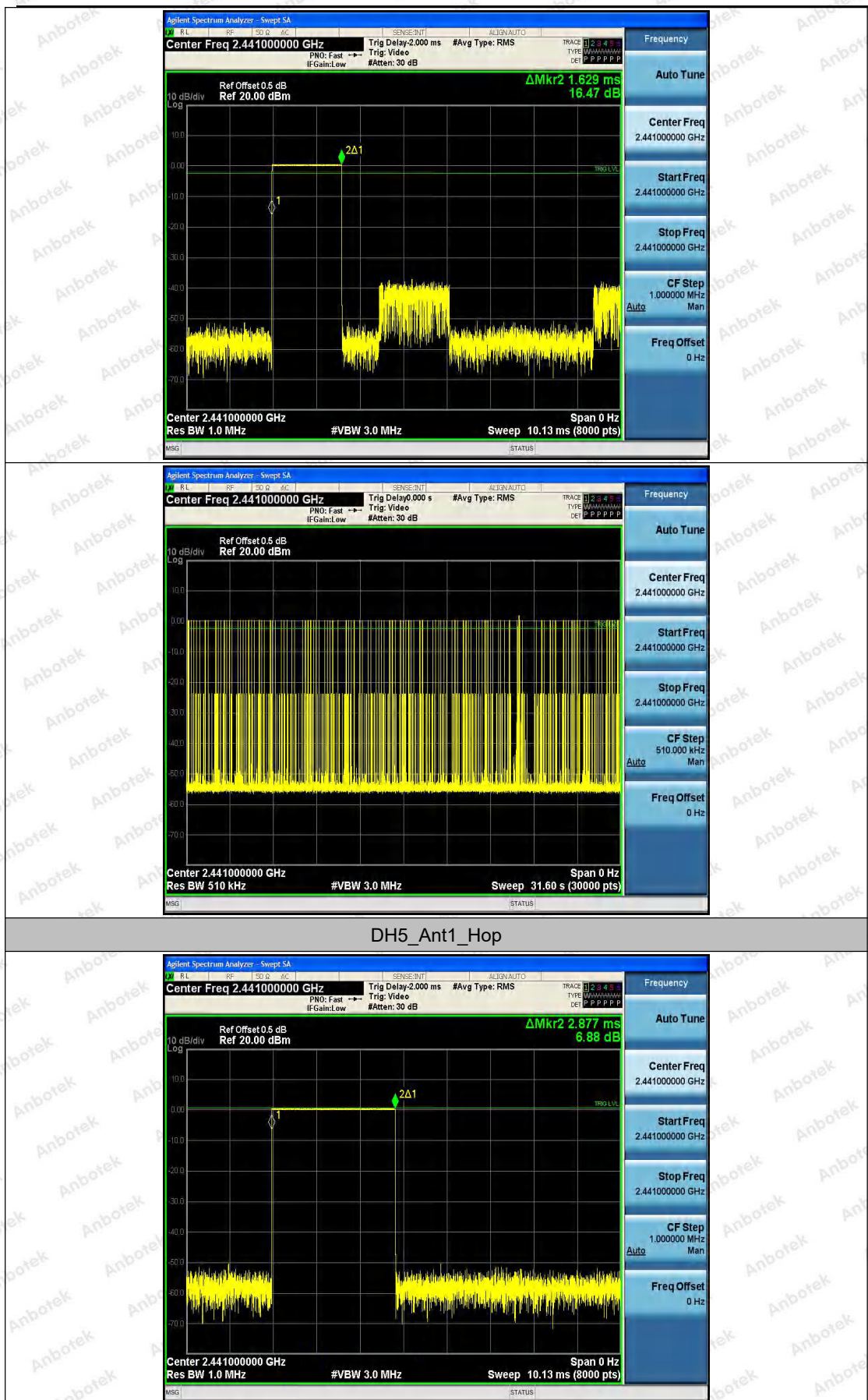
Appendix E: Time of occupancy

Test Result

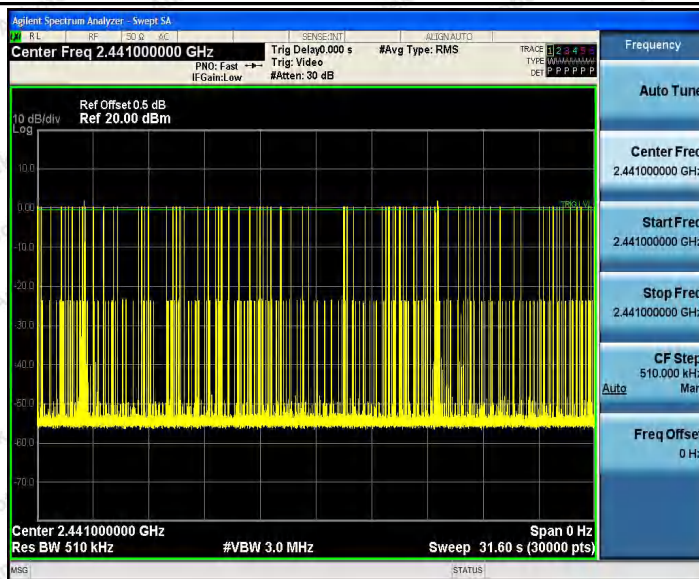
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	319	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	162	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.88	122	0.351	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	112	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	162	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs

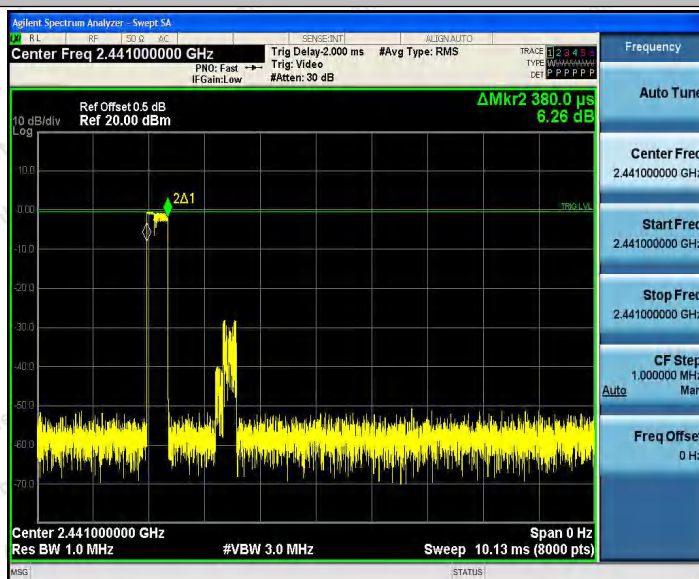




DH5_Ant1_Hop



2DH1_Ant1_Hop



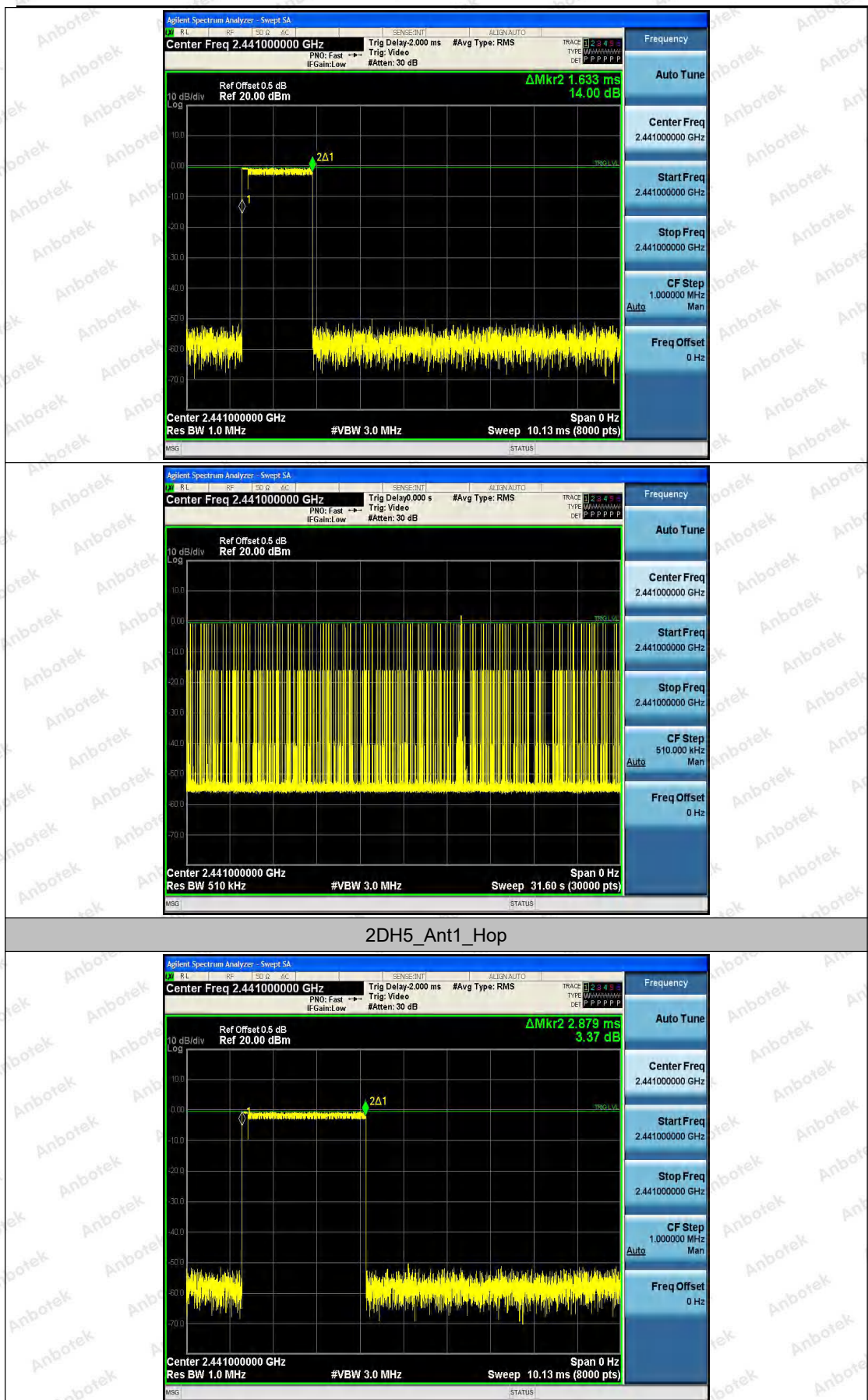
2DH3_Ant1_Hop

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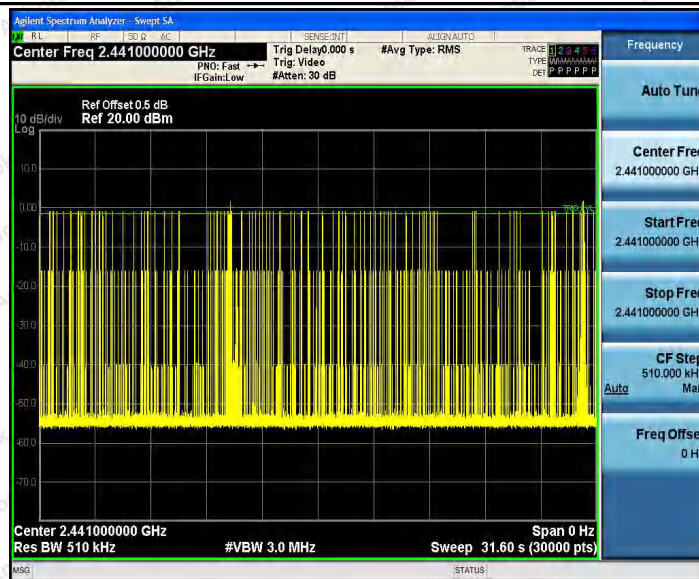
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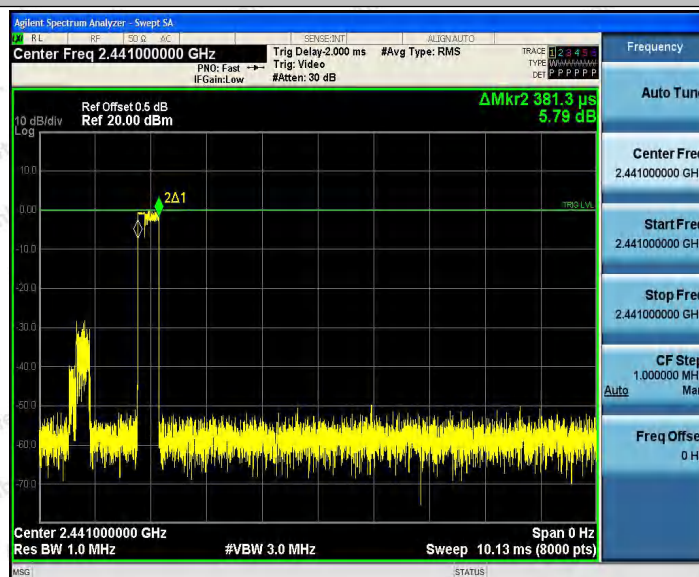
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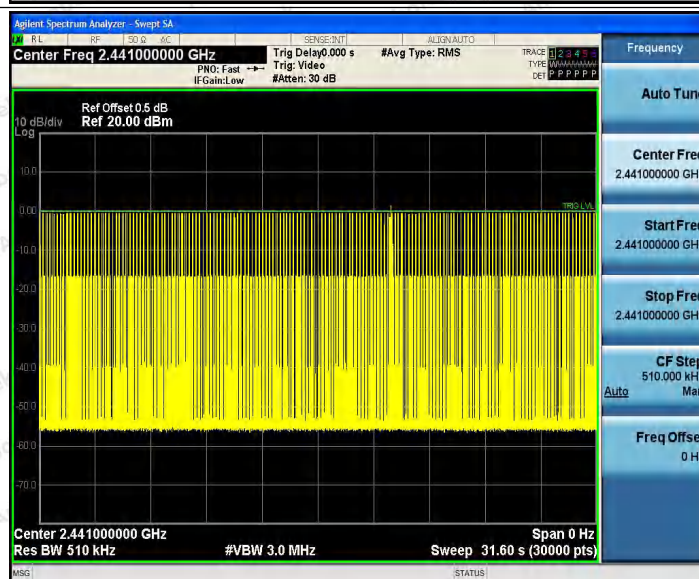
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop

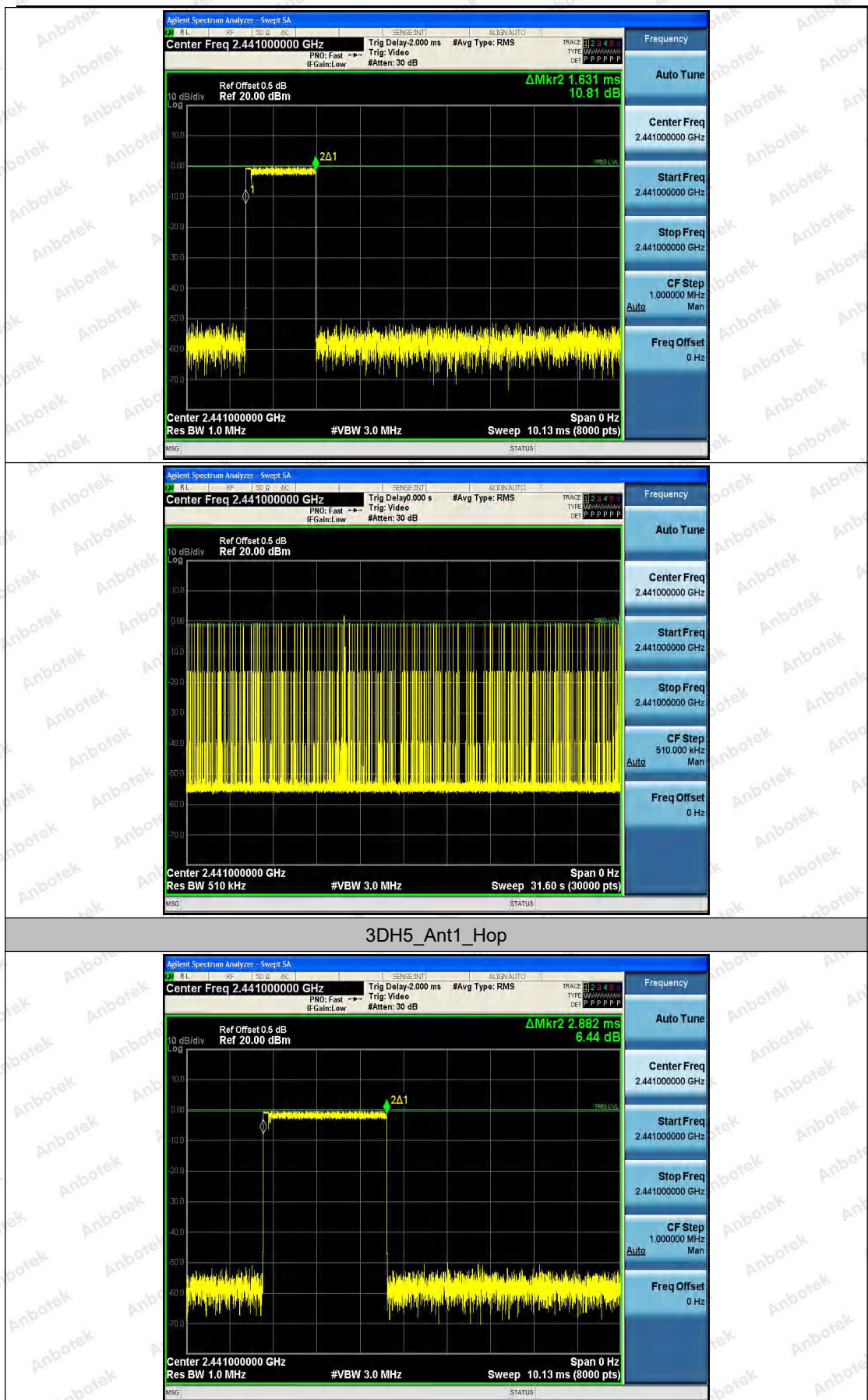


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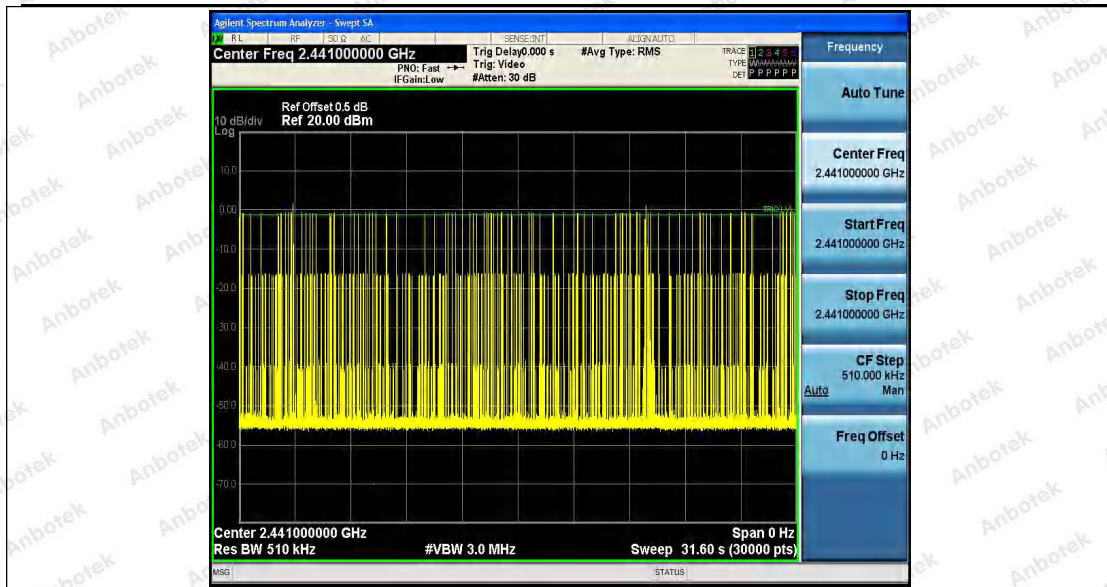


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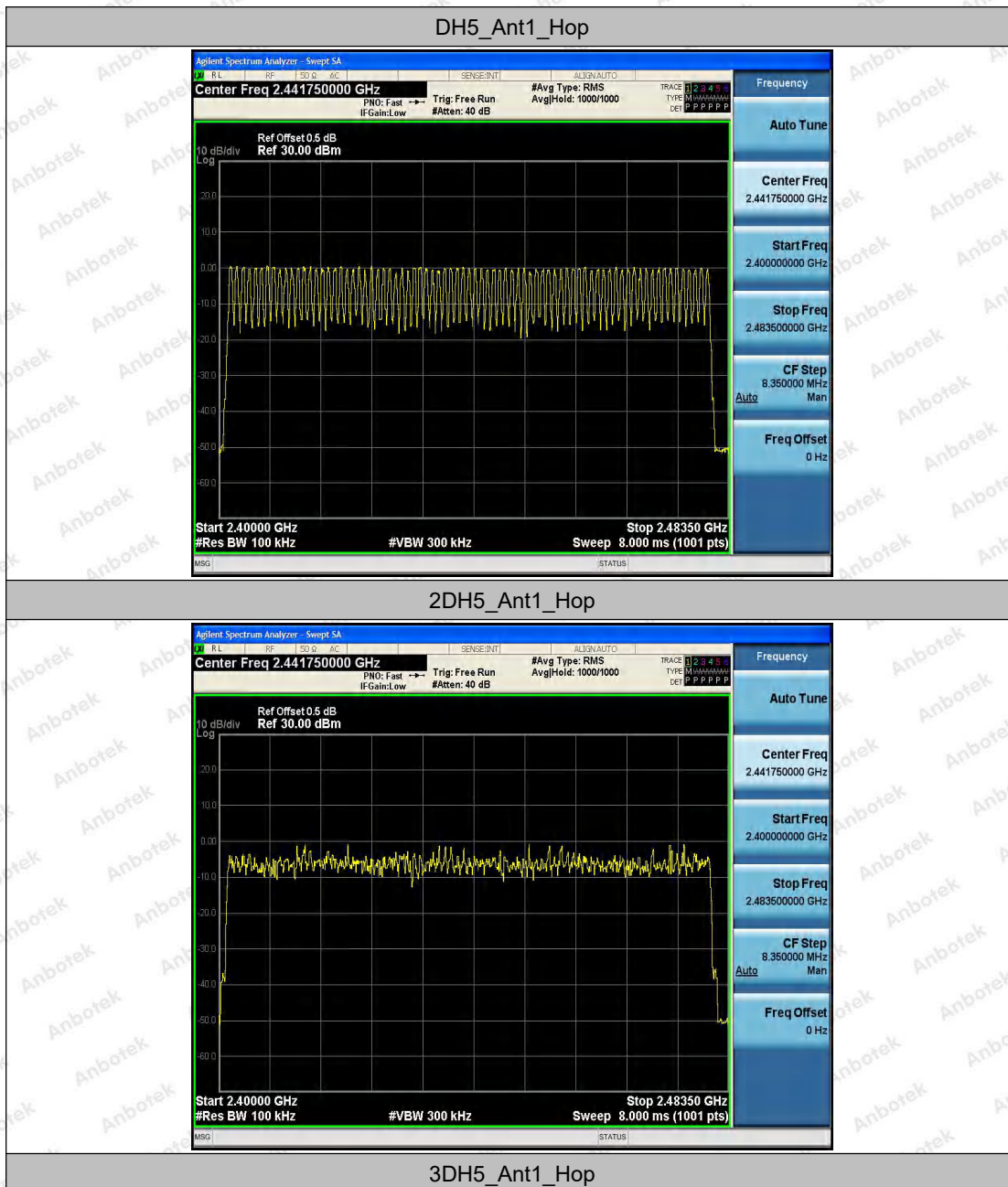
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Appendix F: Number of hopping channels

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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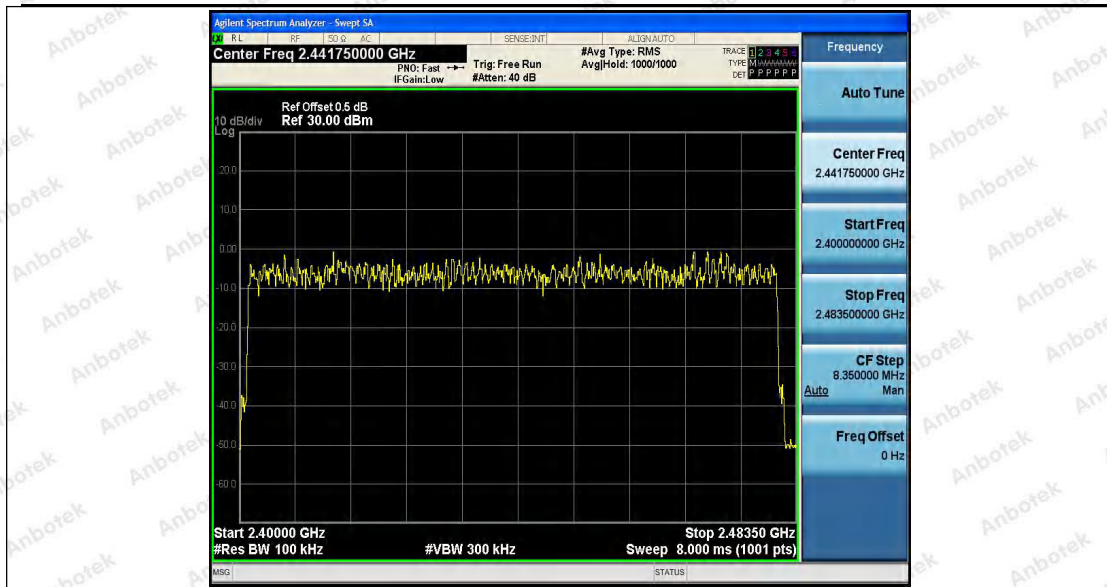
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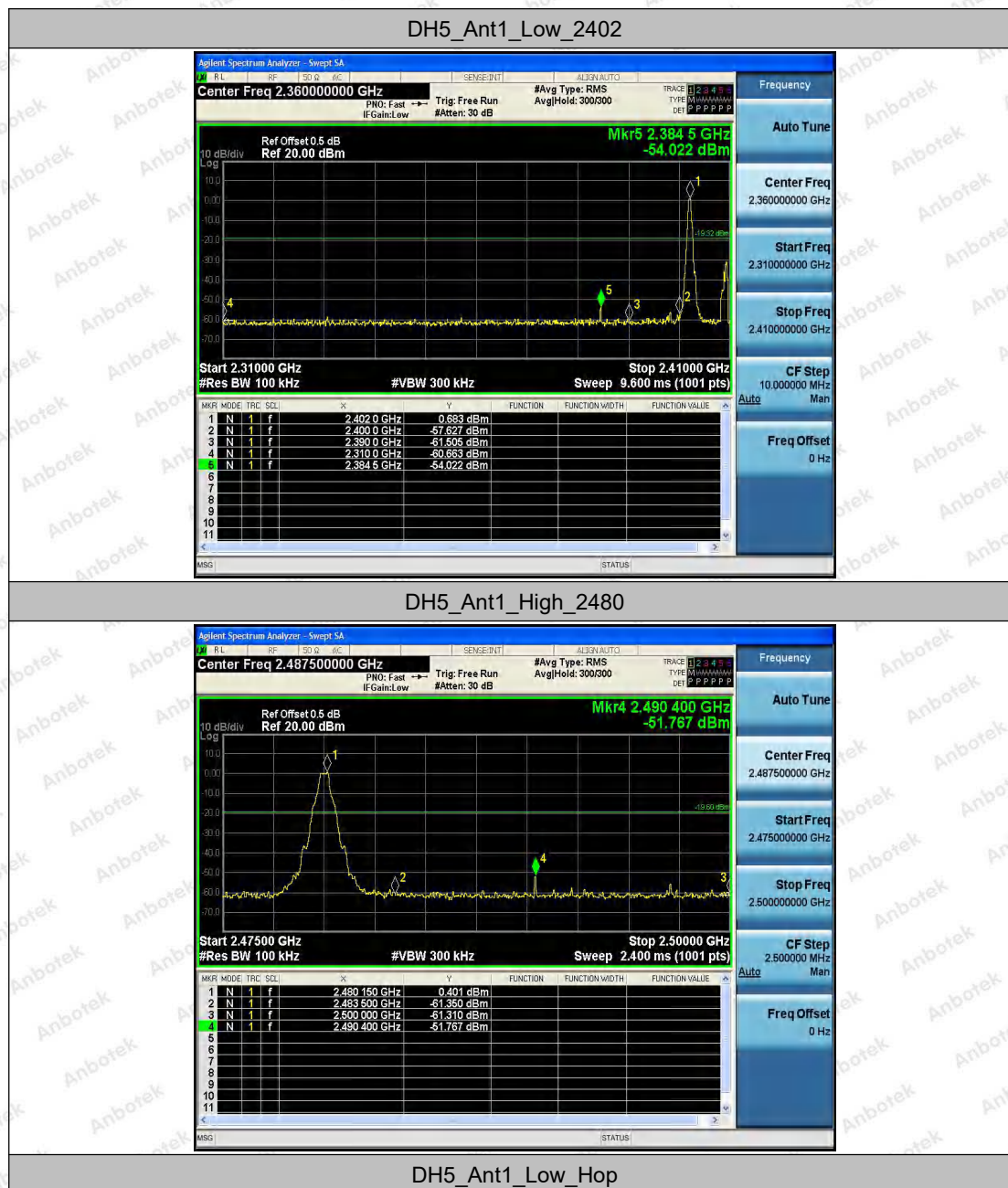
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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.68	-54.02	≤-19.32	PASS
		High	2480	0.40	-51.77	≤-19.6	PASS
		Low	Hop	-0.46	-58.02	≤-20.46	PASS
		High	Hop	0.09	-61.23	≤-19.91	PASS
2DH5	Ant1	Low	2402	-2.03	-56.13	≤-22.03	PASS
		High	2480	-0.69	-58.1	≤-20.69	PASS
		Low	Hop	-3.12	-59.28	≤-23.12	PASS
		High	Hop	-2.41	-61.64	≤-22.41	PASS
3DH5	Ant1	Low	2402	-0.59	-56.06	≤-20.59	PASS
		High	2480	-0.70	-58.14	≤-20.7	PASS
		Low	Hop	-3.49	-58.62	≤-23.49	PASS
		High	Hop	-1.87	-60.73	≤-21.87	PASS

Test Graphs

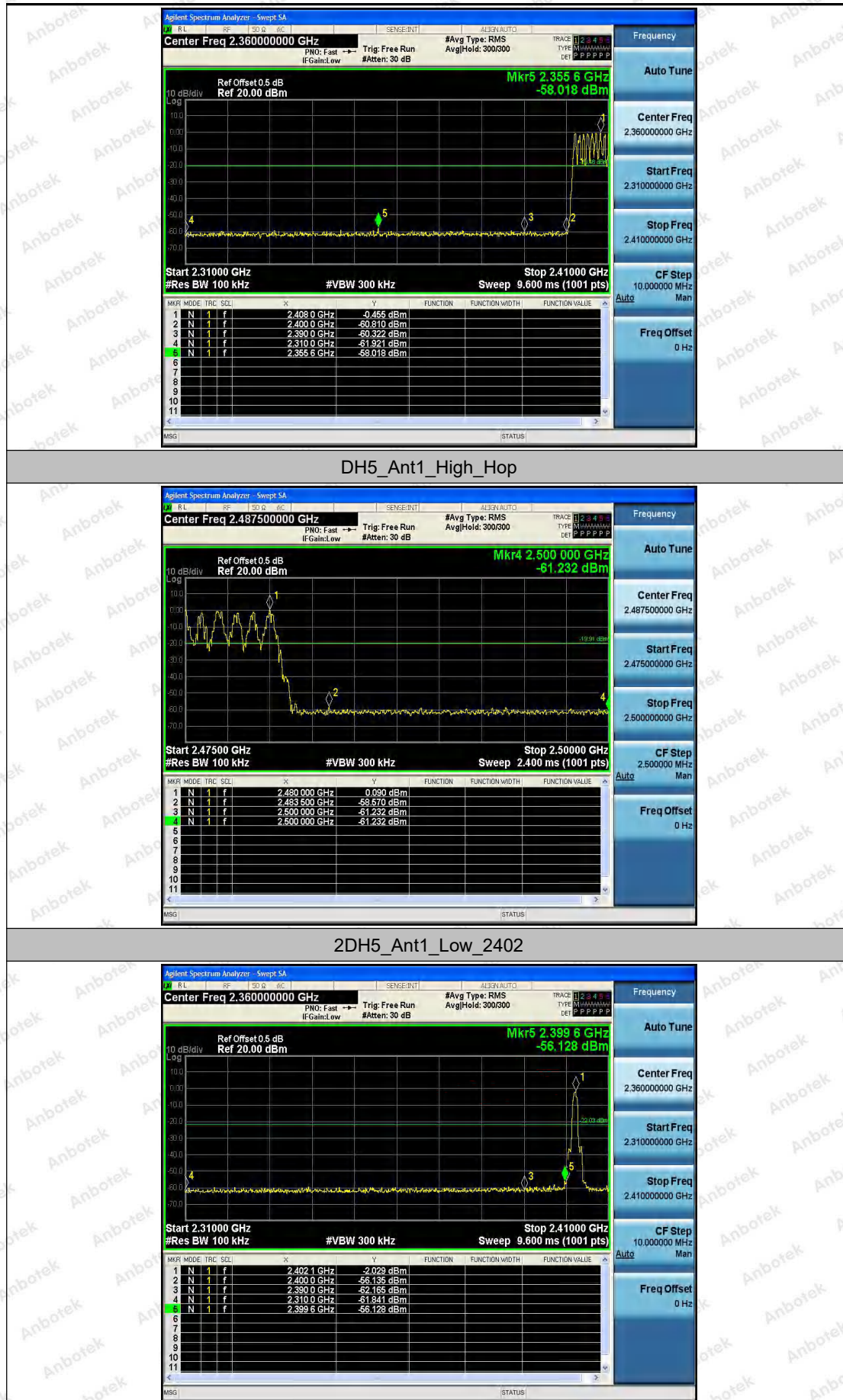


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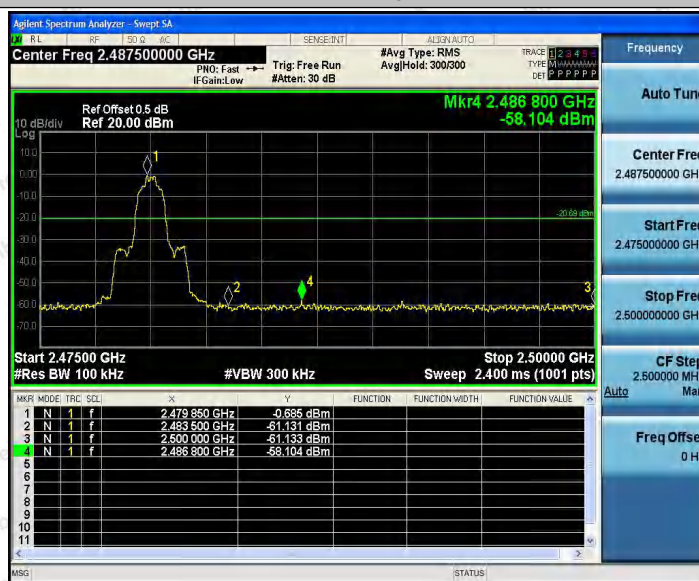
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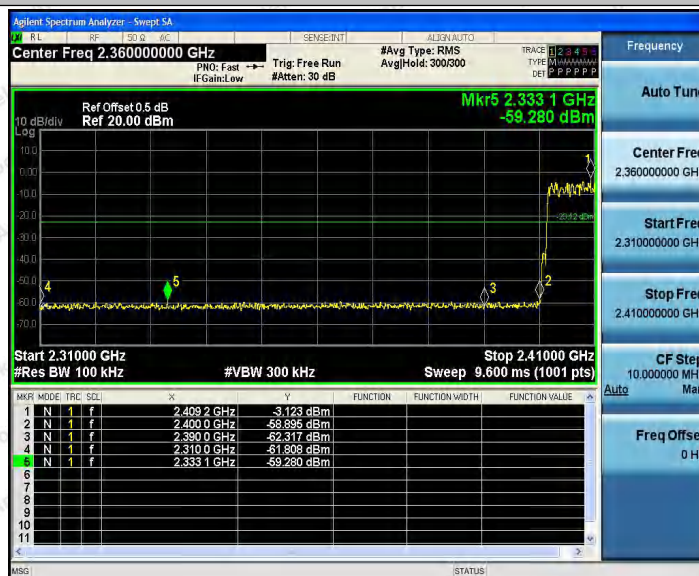
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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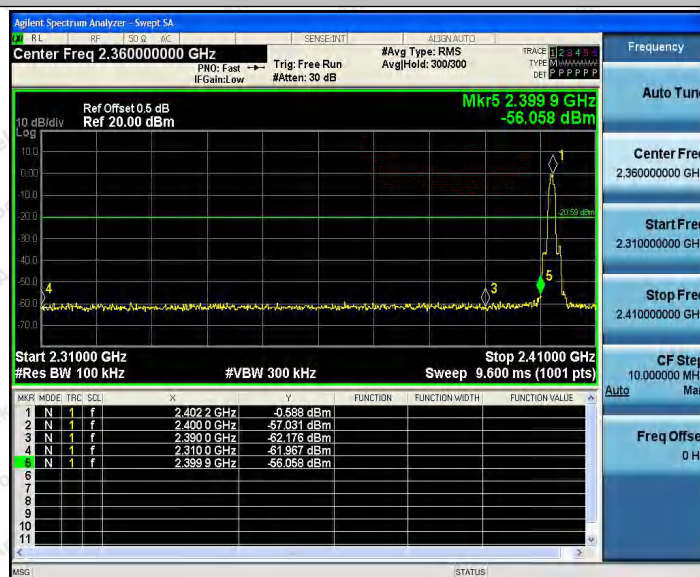
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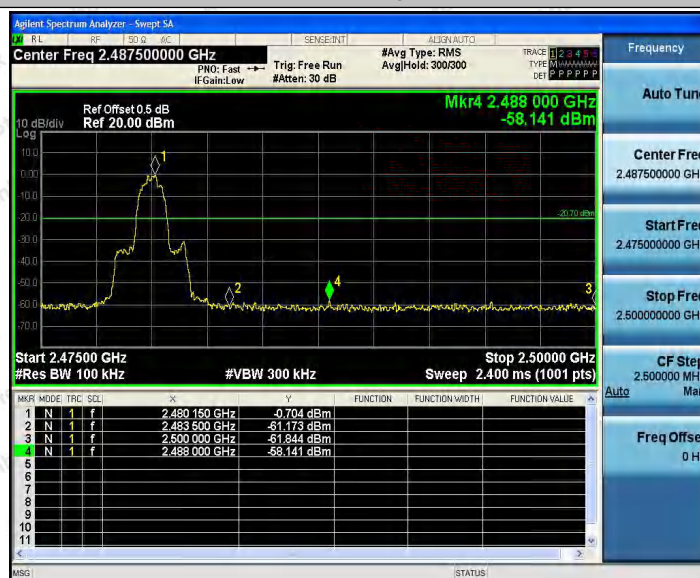
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

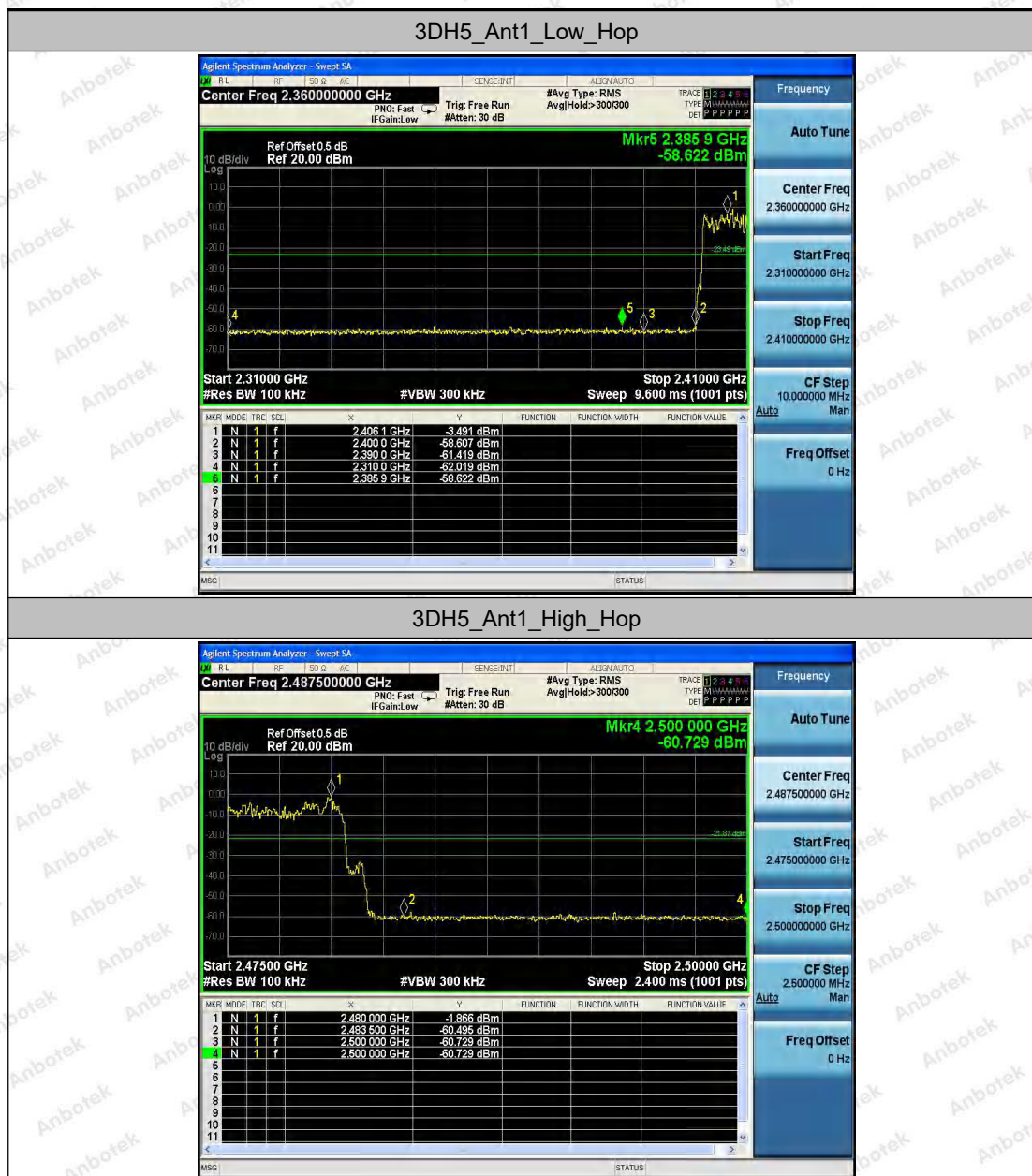


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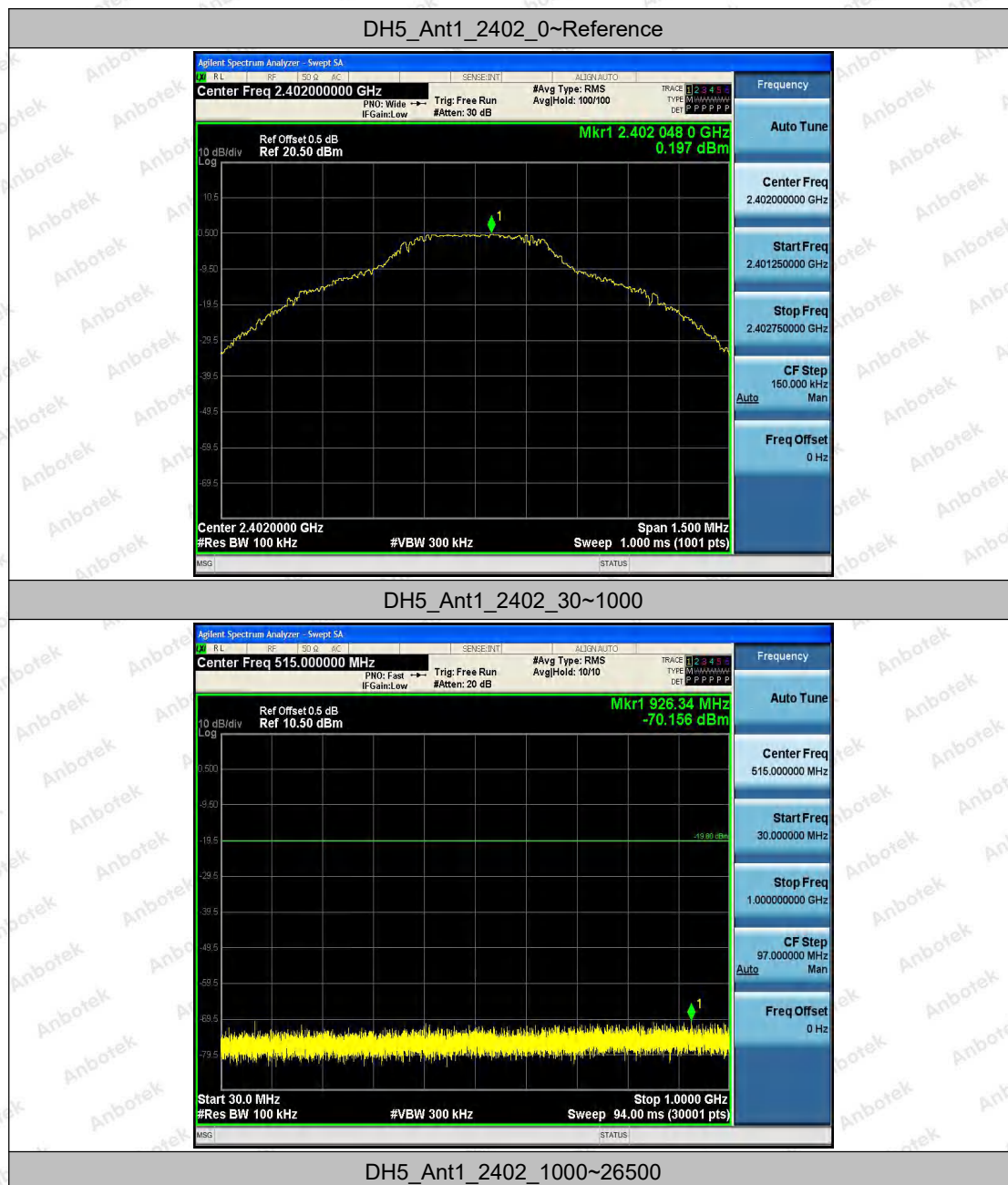
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-70.16	≤-19.8	PASS
			1000~26500	0.20	-54.26	≤-19.8	PASS
		2441	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-69.67	≤-19.69	PASS
			1000~26500	0.31	-55.28	≤-19.69	PASS
		2480	Reference	0.18	0.18	---	PASS
			30~1000	0.18	-69.98	≤-19.82	PASS
			1000~26500	0.18	-55.34	≤-19.82	PASS
2DH5	Ant1	2402	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-69.58	≤-21.05	PASS
			1000~26500	-1.05	-55.52	≤-21.05	PASS
		2441	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-69.6	≤-21	PASS
			1000~26500	-1.00	-54.92	≤-21	PASS
		2480	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-70.21	≤-21.41	PASS
			1000~26500	-1.41	-55.13	≤-21.41	PASS
3DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-69.62	≤-20.7	PASS
			1000~26500	-0.70	-54.75	≤-20.7	PASS
		2441	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-69.55	≤-20.88	PASS
			1000~26500	-0.88	-54.62	≤-20.88	PASS
		2480	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-69.51	≤-21.1	PASS
			1000~26500	-1.10	-53.76	≤-21.1	PASS

Test Graphs

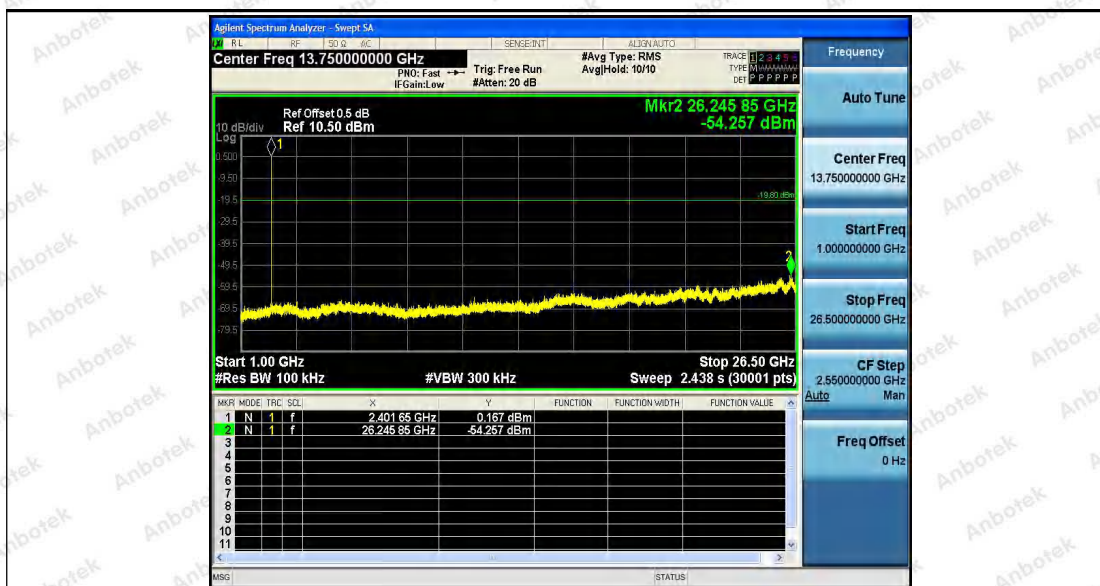


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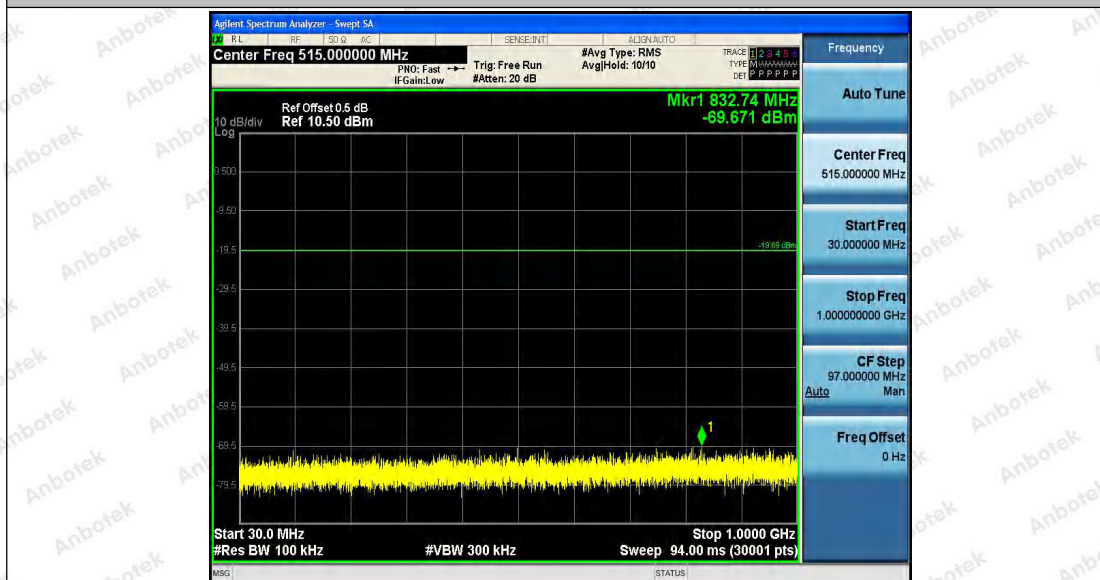
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



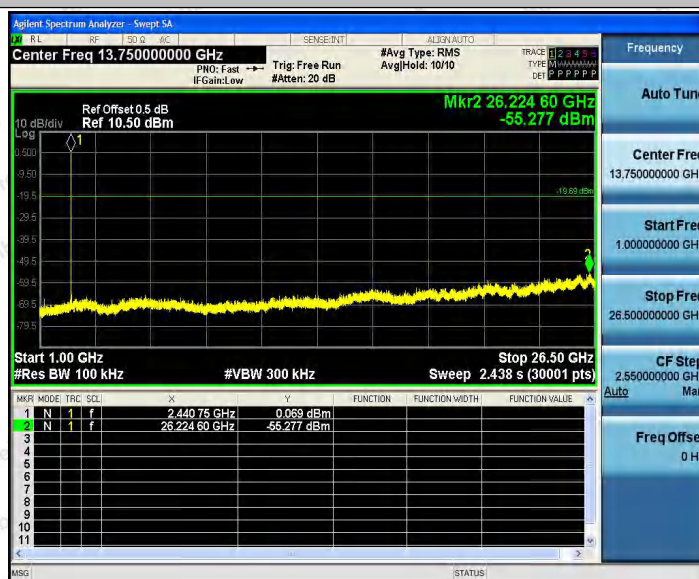
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



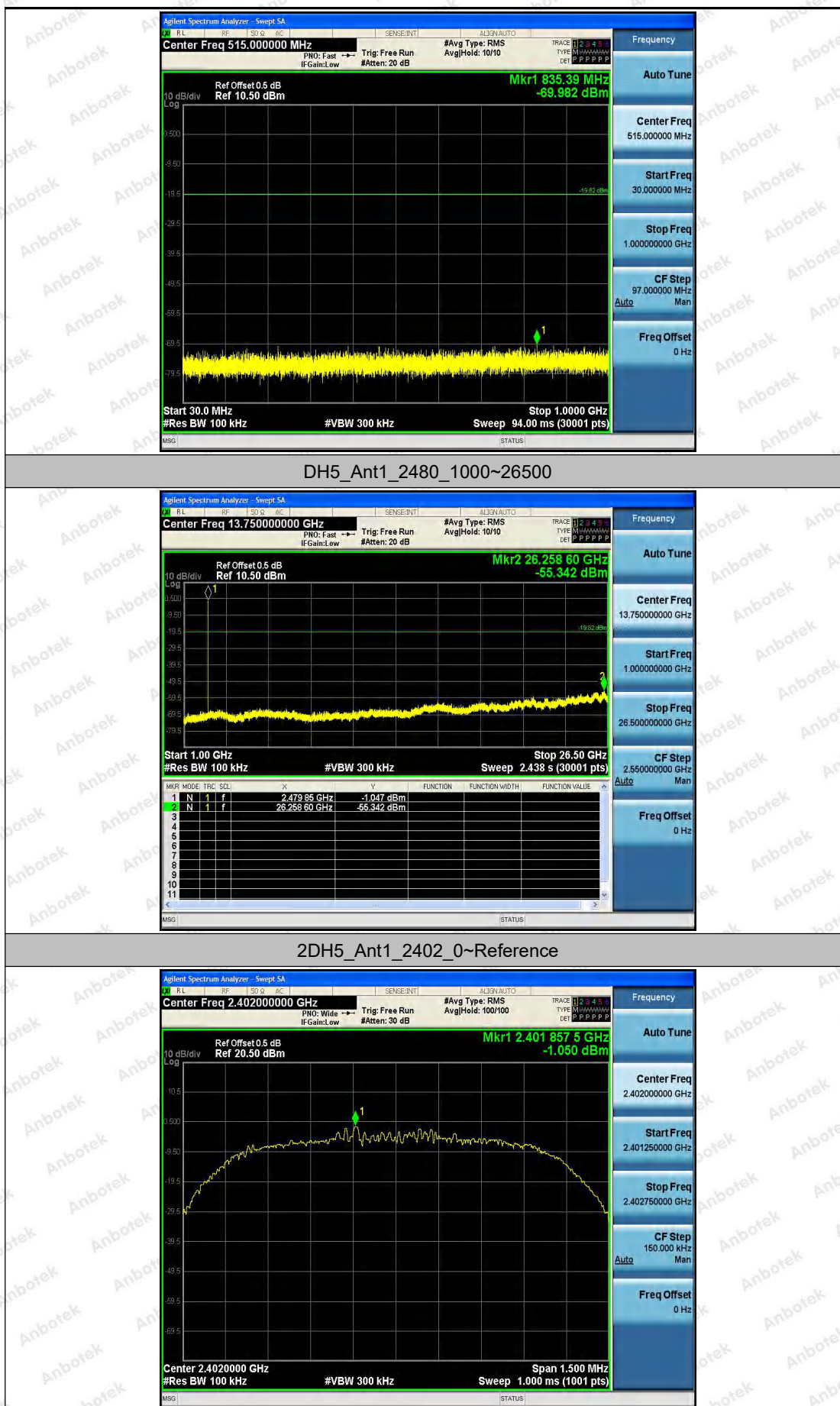
DH5_Ant1_2480_30~1000

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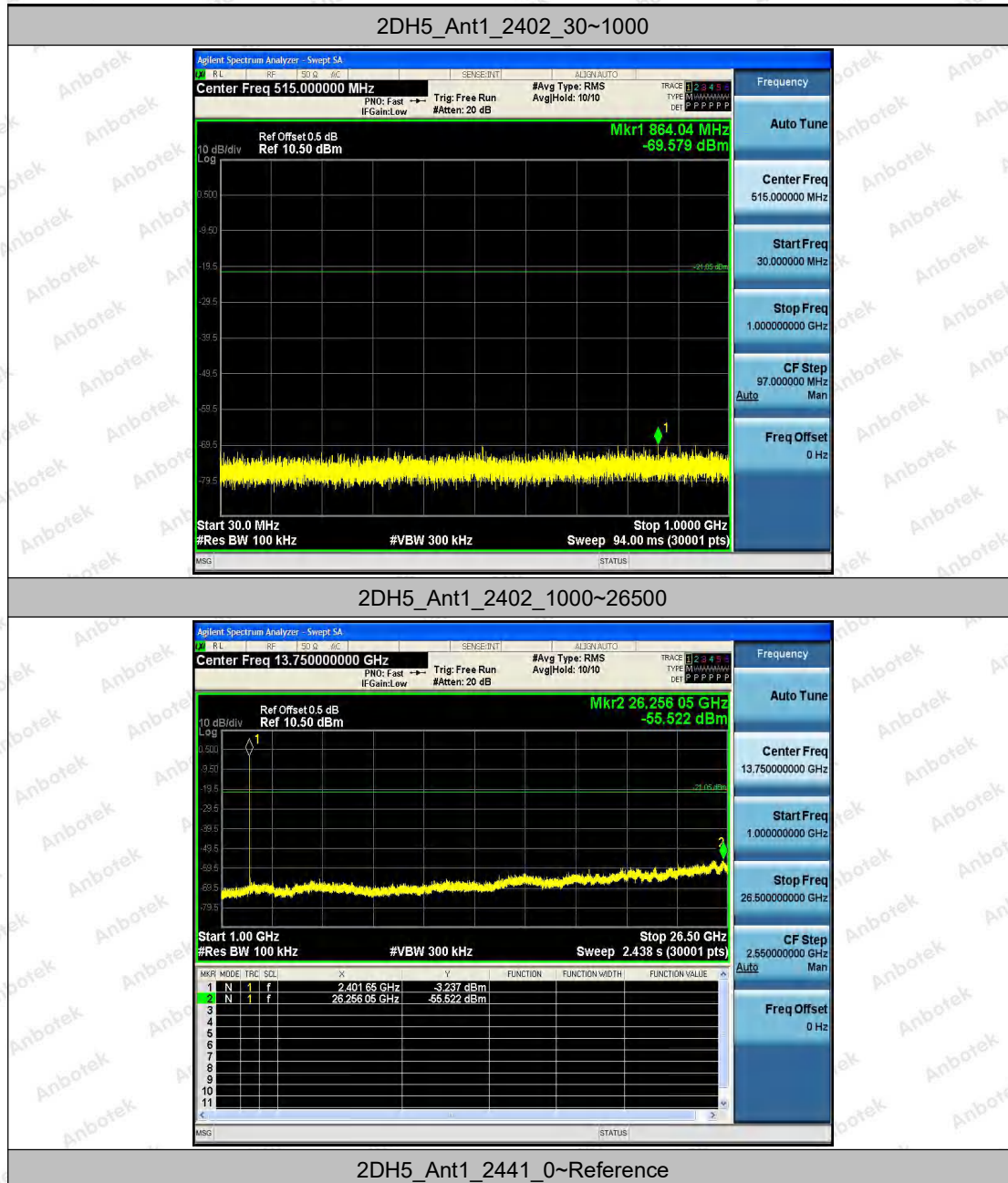


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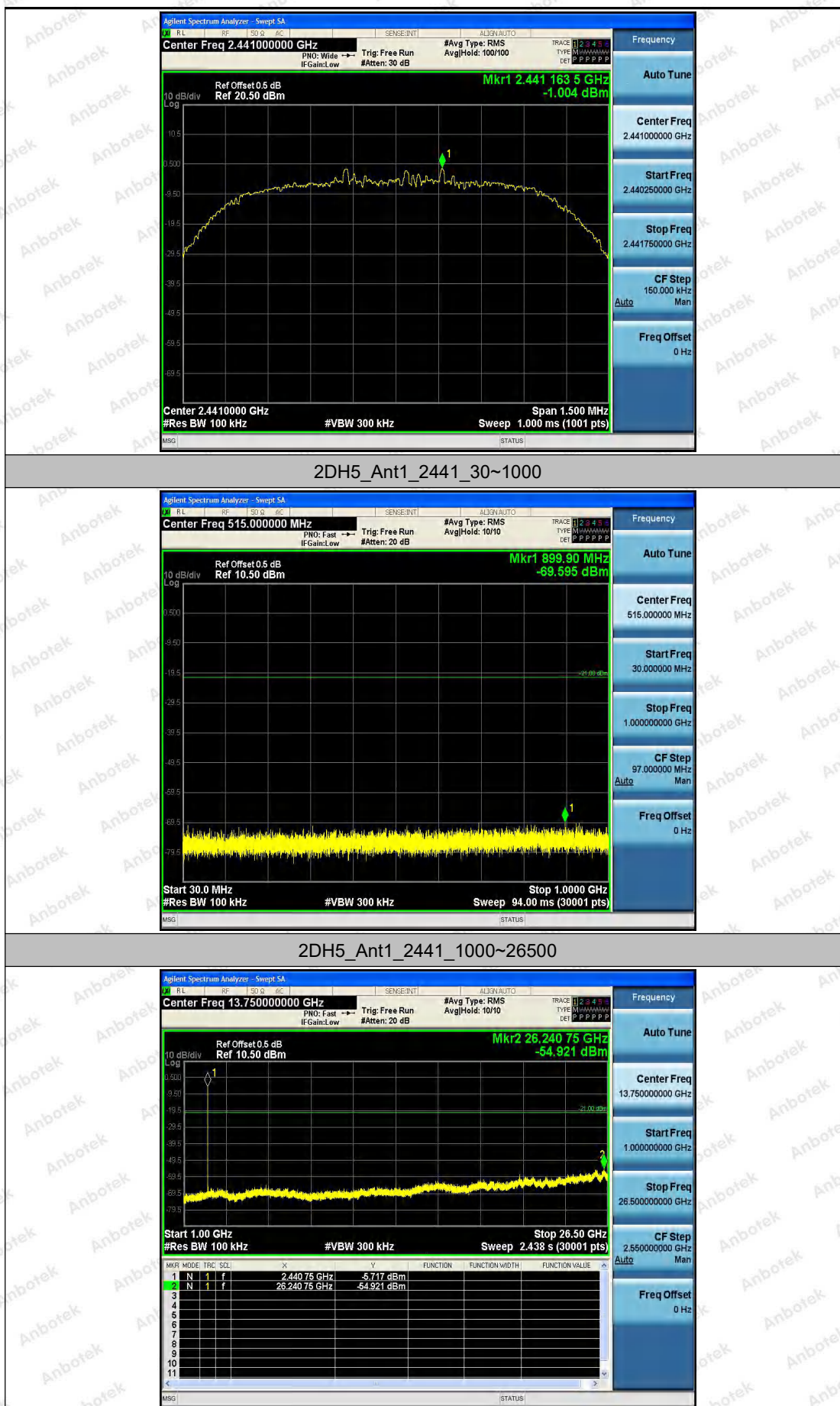
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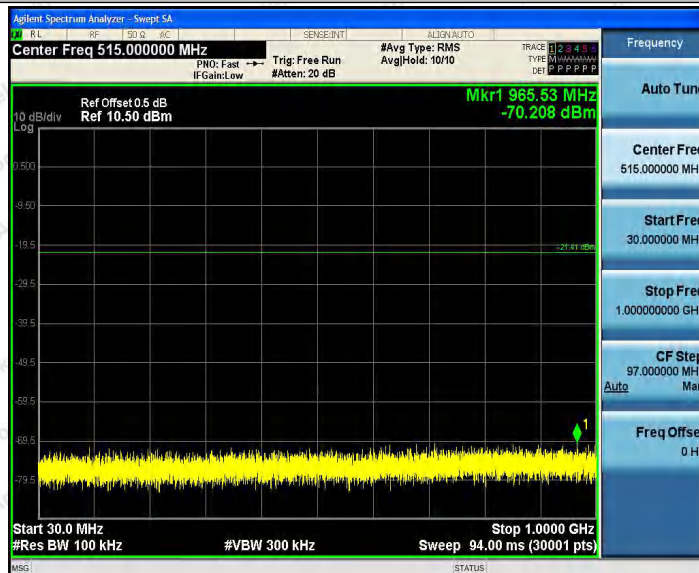
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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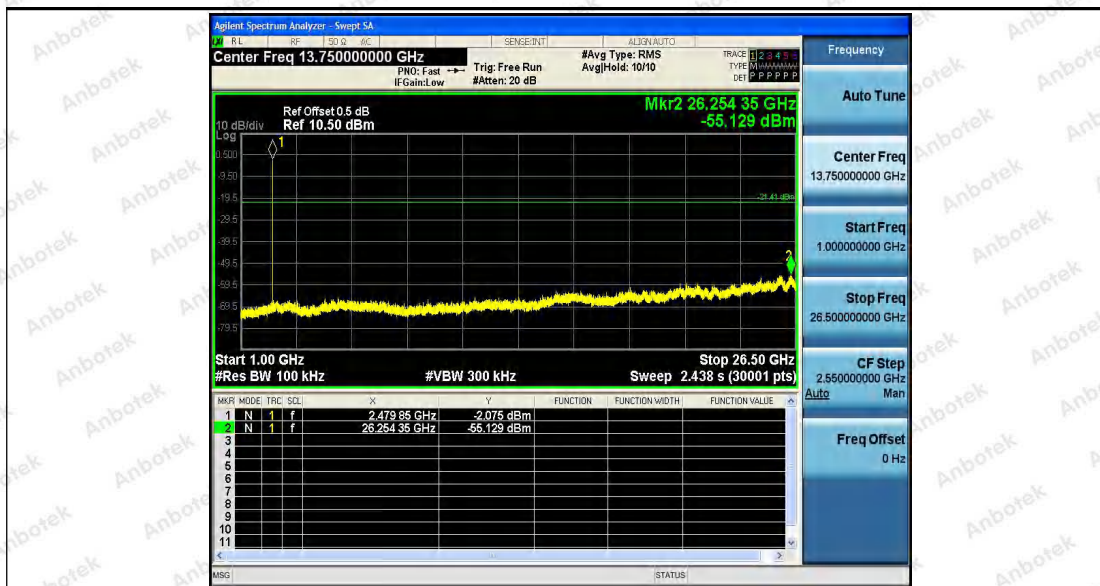
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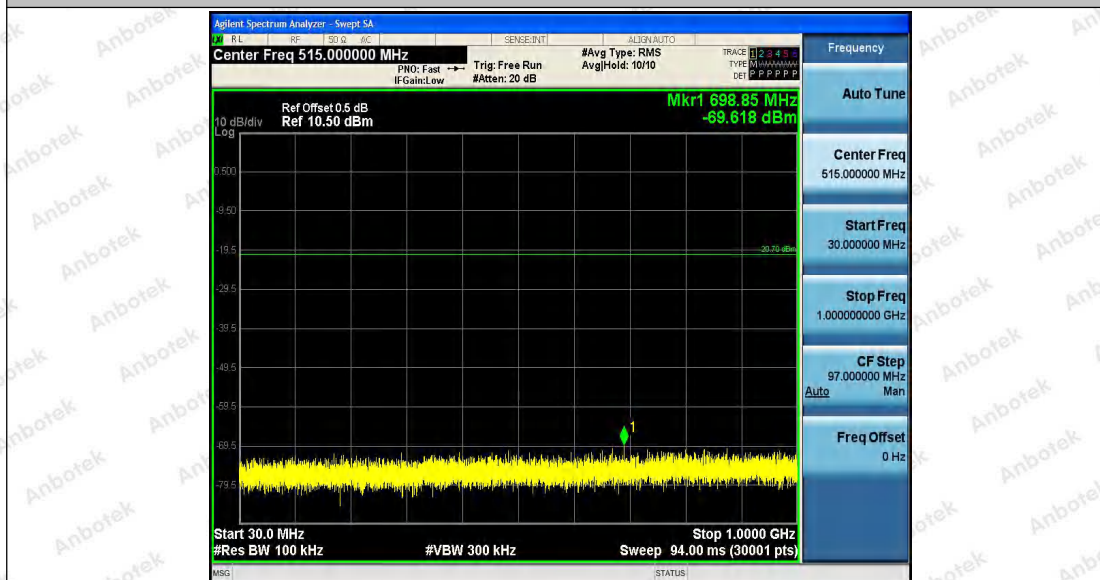
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



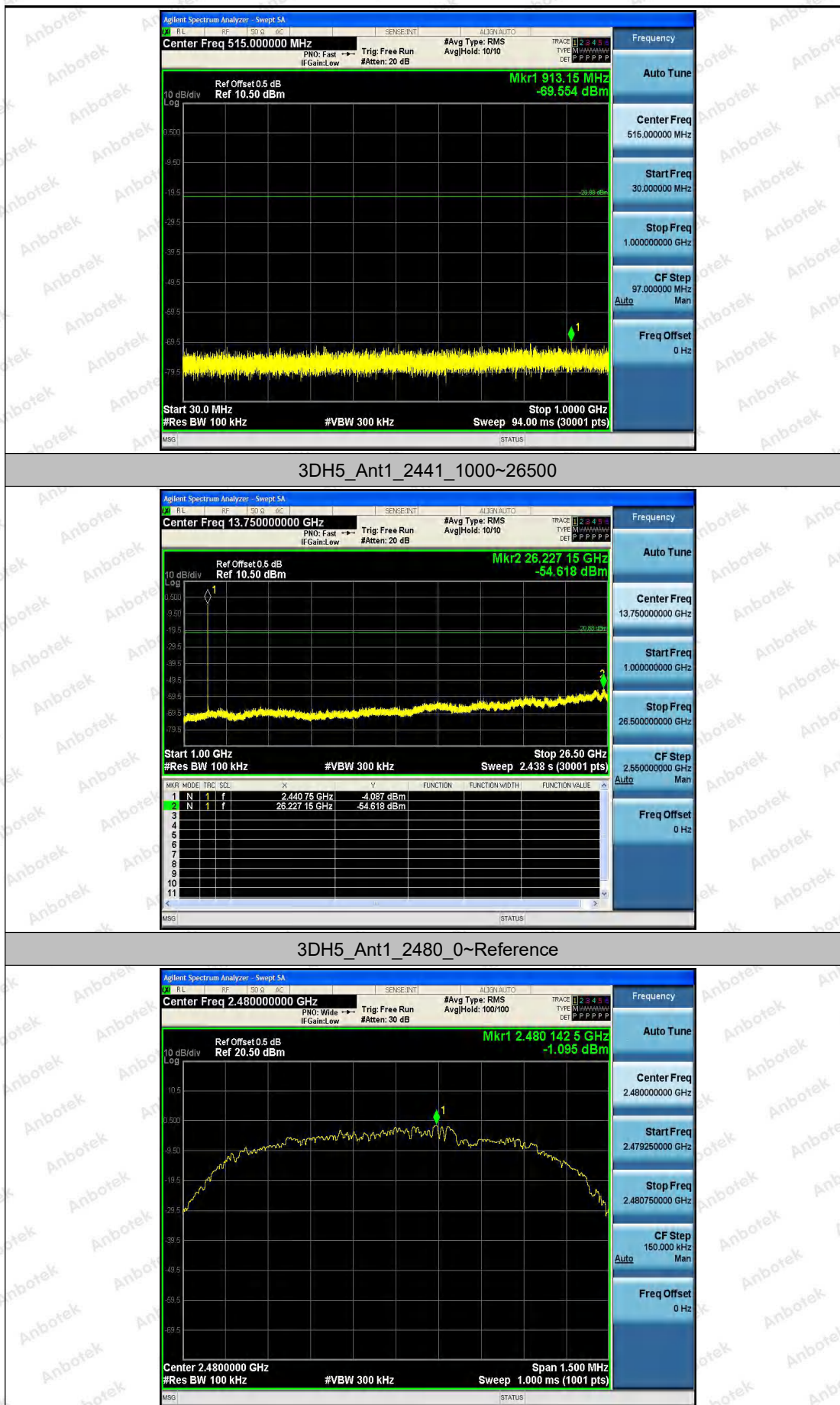
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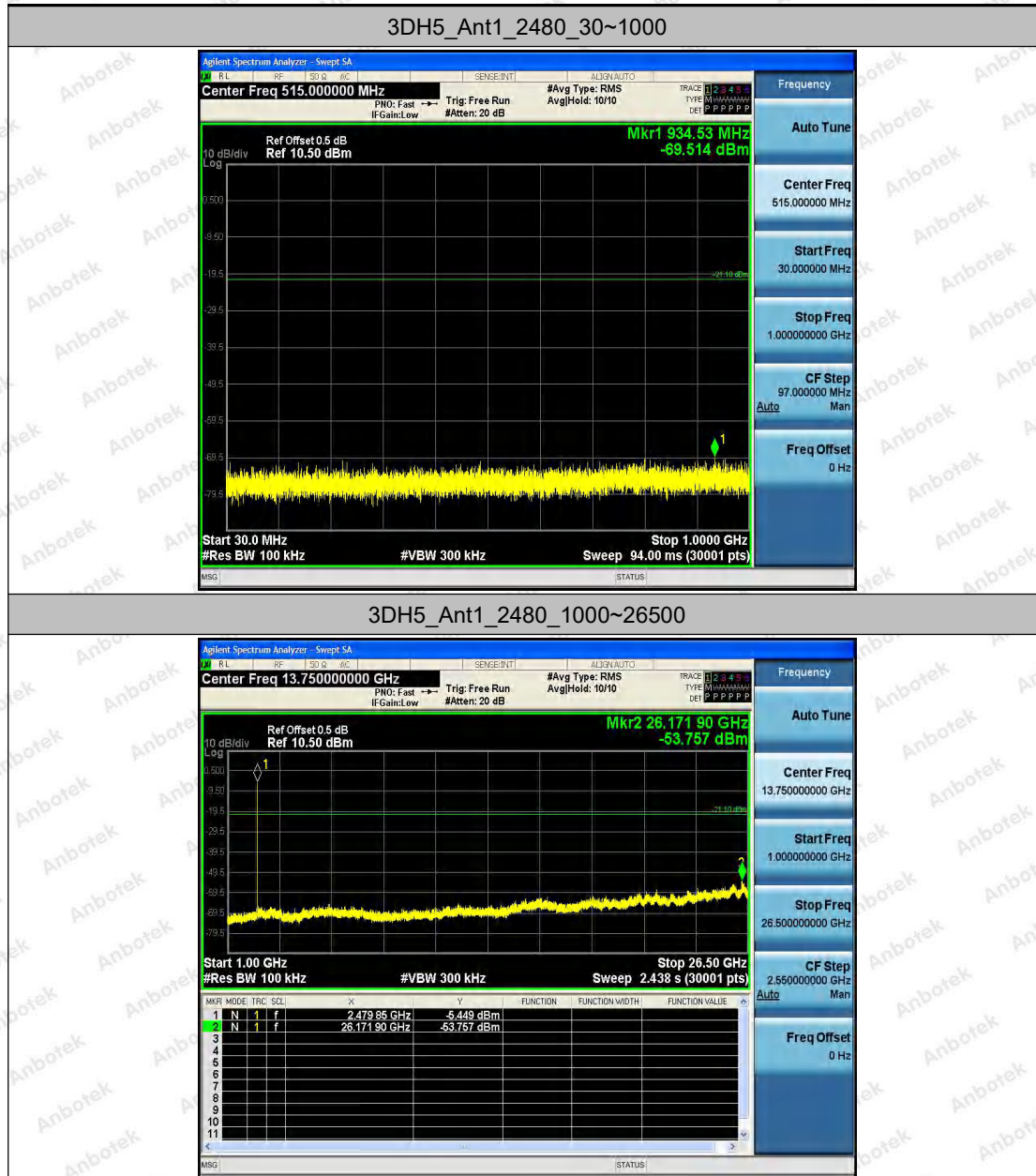


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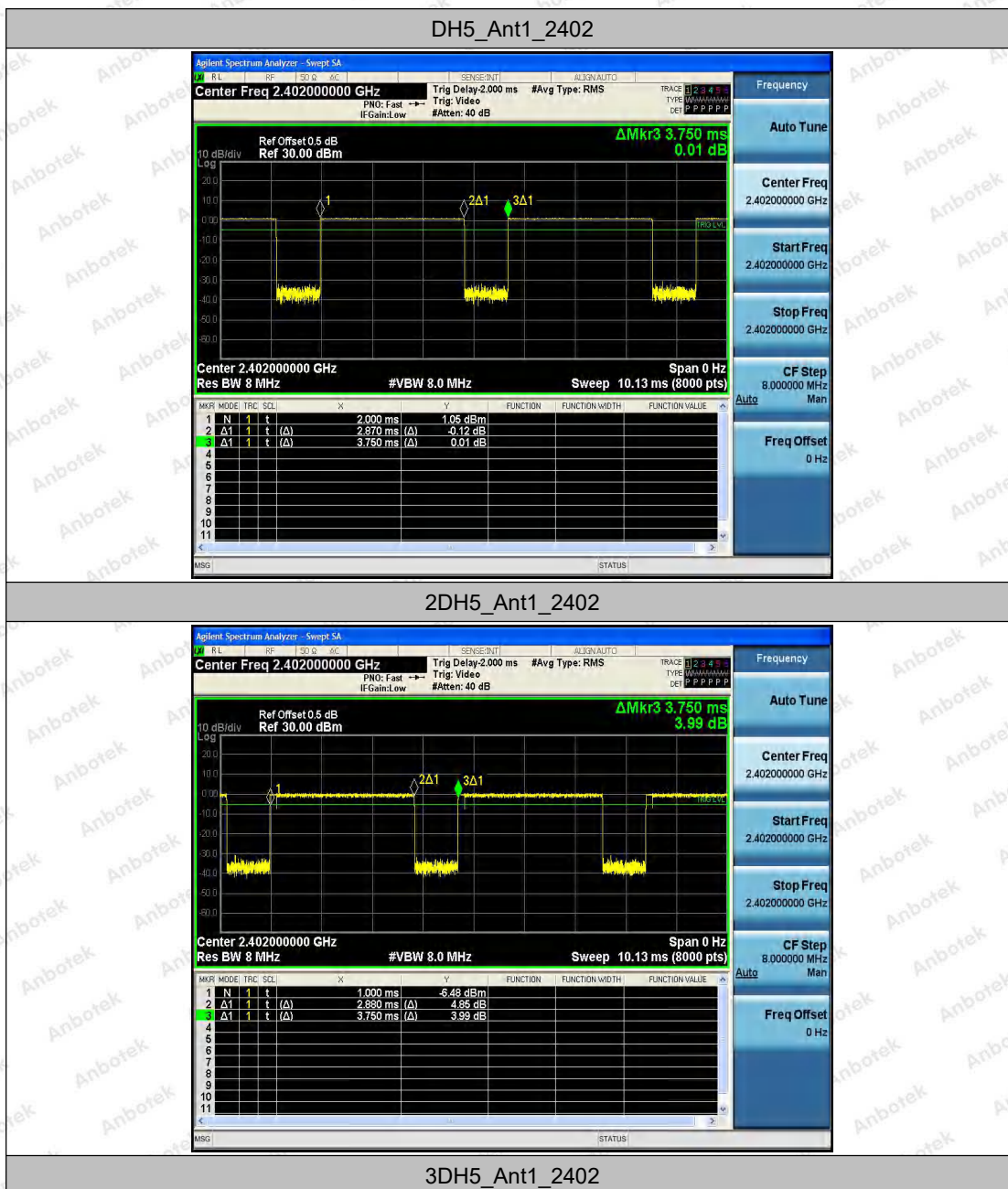
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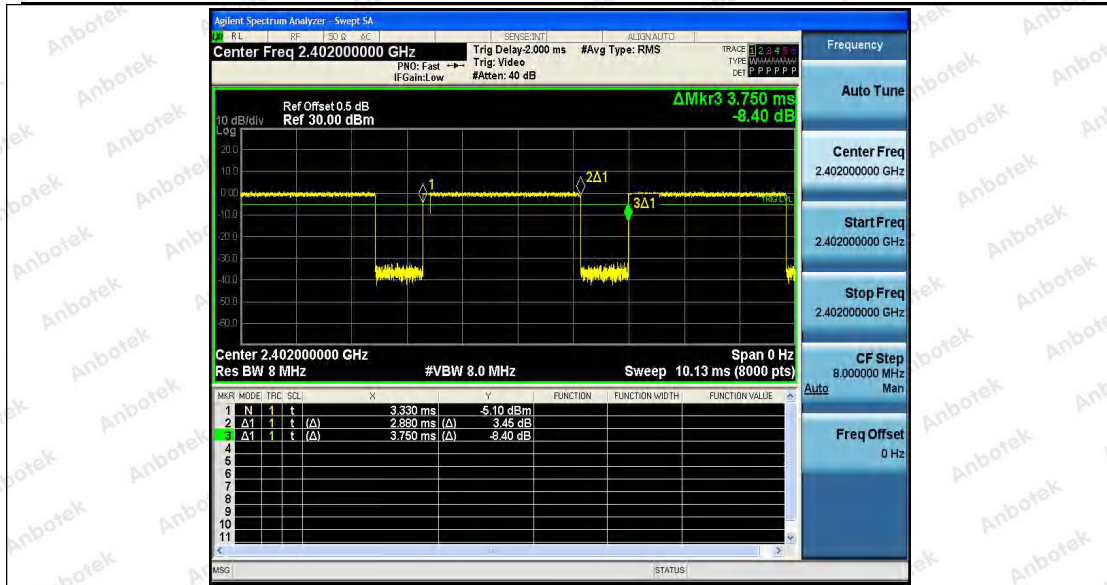
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---