

Appendix Test Data

Report No.:	18220WC20043001	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.11
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	55.6 %
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	0.945	2401.541	2402.486	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.948	2479.541	2480.489	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.326	2440.337	2441.663	---	PASS
		2480	1.266	2479.367	2480.633	---	PASS
3DH5	Ant1	2402	1.275	2401.355	2402.630	---	PASS
		2441	1.317	2440.343	2441.660	---	PASS
		2480	1.296	2479.349	2480.645	---	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

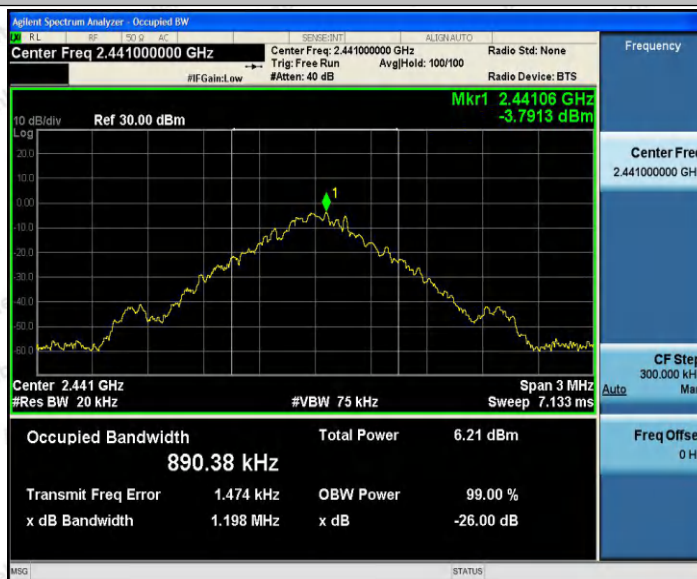
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88996	2401.55 7	2402.447	---	PASS
		2441	0.89038	2440.55 6	2441.447	---	PASS
		2480	0.90492	2479.55 2	2480.457	---	PASS
2DH5	Ant1	2402	1.1966	2401.40 3	2402.599	---	PASS
		2441	1.2033	2440.39 9	2441.603	---	PASS
		2480	1.1969	2479.40 0	2480.597	---	PASS
3DH5	Ant1	2402	1.2055	2401.39 0	2402.595	---	PASS
		2441	1.2113	2440.38 6	2441.598	---	PASS
		2480	1.2003	2479.39 3	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



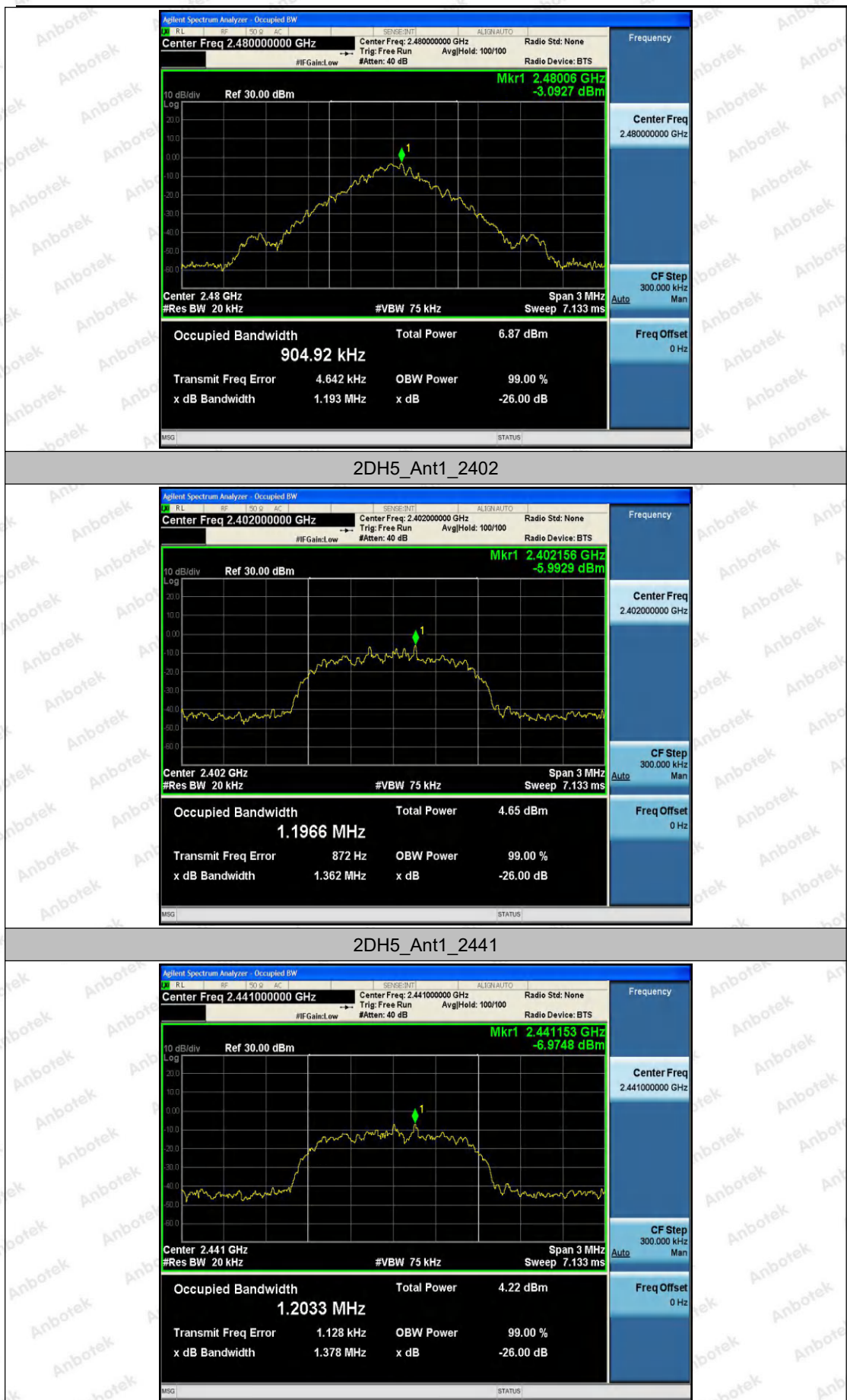
DH5_Ant1_2480

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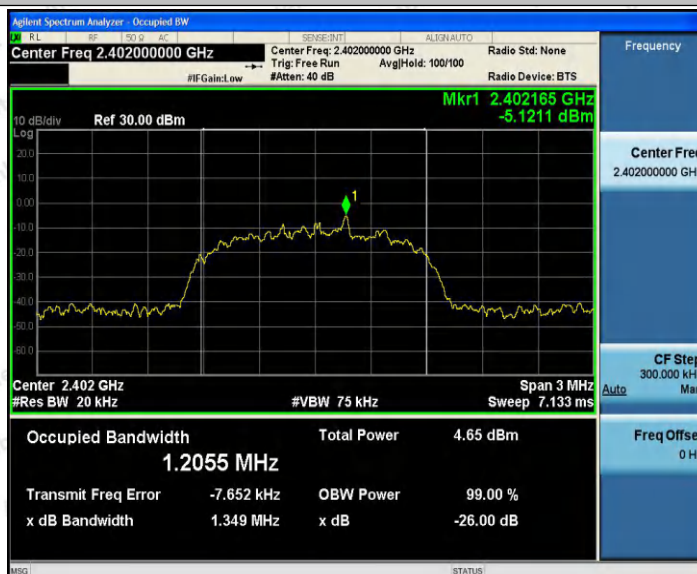
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2DH5_Ant1_2480



3DH5_Ant1_2402



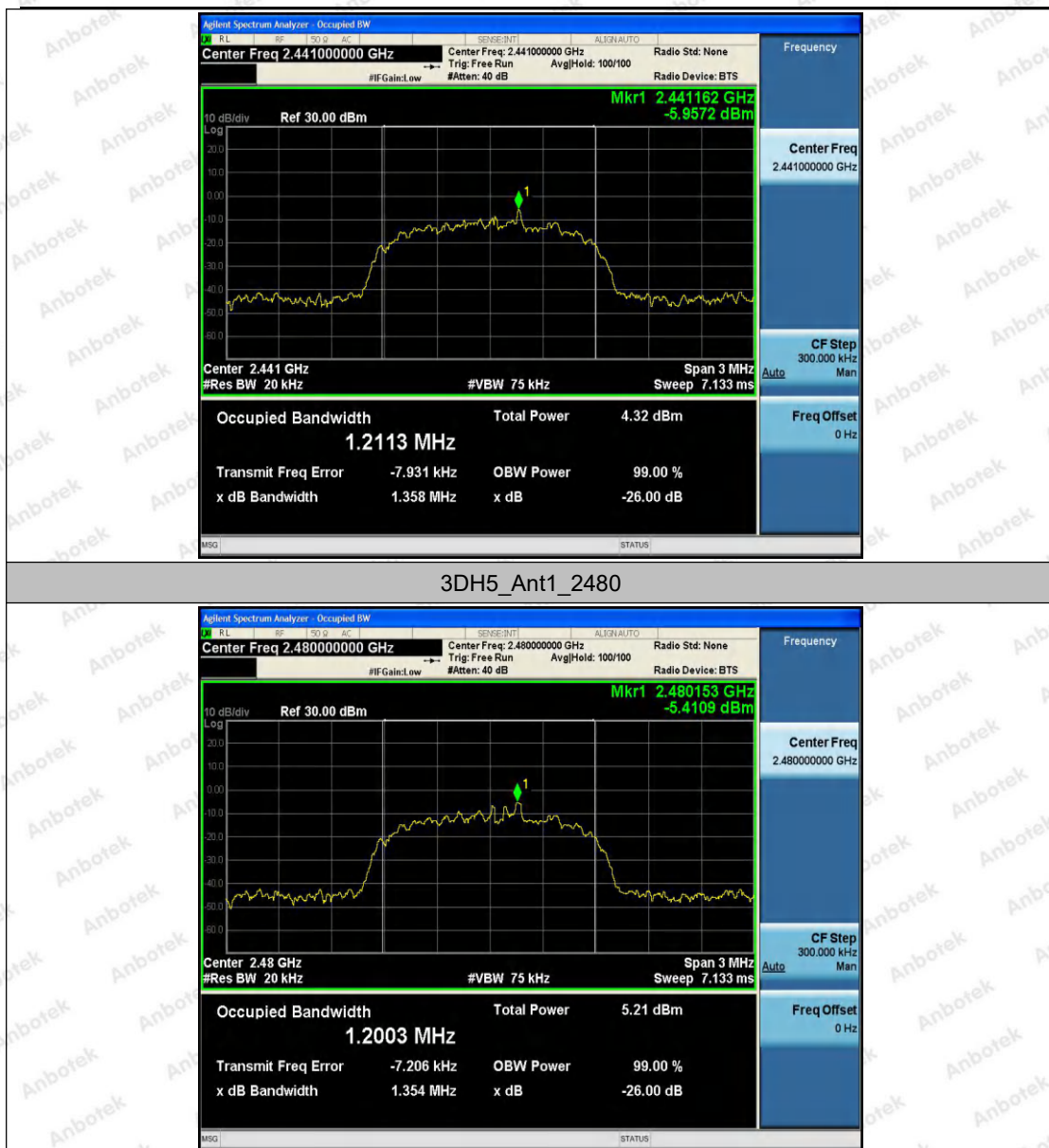
3DH5_Ant1_2441

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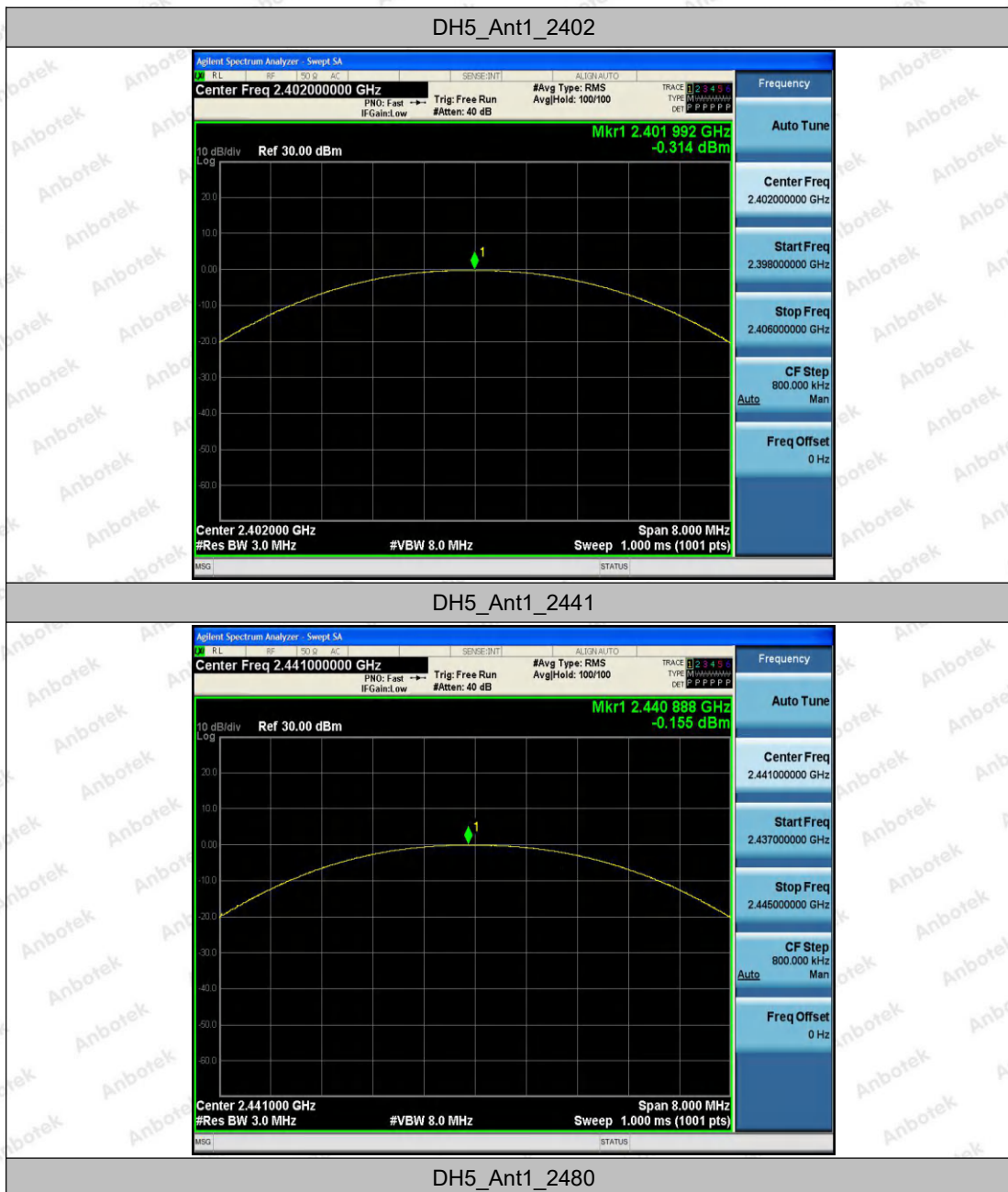
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.31	≤20.97	PASS
		2441	-0.16	≤20.97	PASS
		2480	0.66	≤20.97	PASS
2DH5	Ant1	2402	-0.71	≤20.97	PASS
		2441	-0.83	≤20.97	PASS
		2480	-0.1	≤20.97	PASS
3DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.85	≤20.97	PASS
		2480	-0.05	≤20.97	PASS

Test Graphs



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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 D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.112	≥ 0.948	PASS
2DH5	Ant1	Hop	1.01	≥ 0.884	PASS
3DH5	Ant1	Hop	1.184	≥ 0.878	PASS

Test Graphs

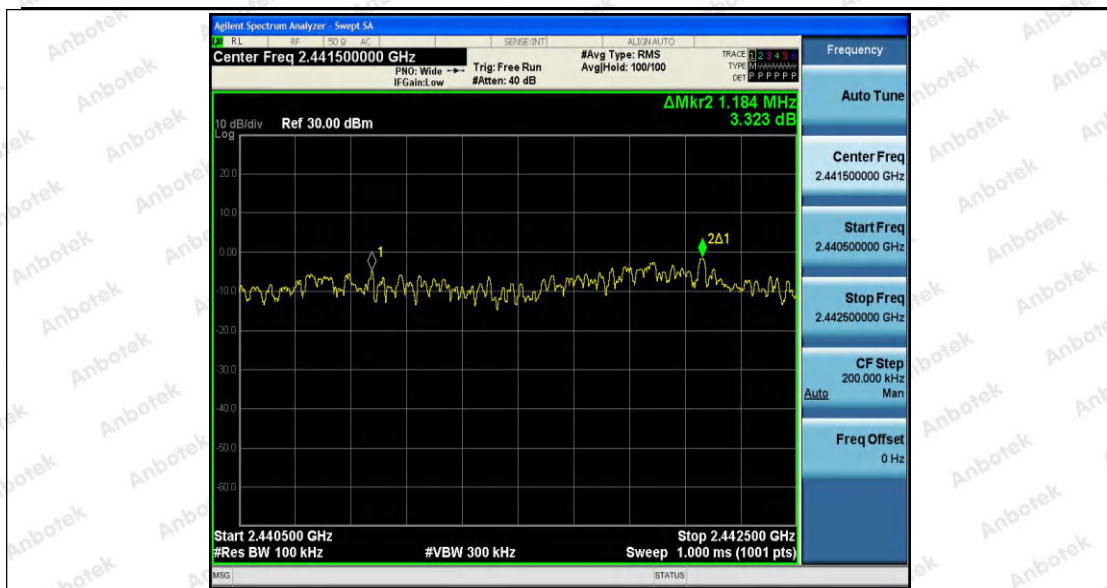


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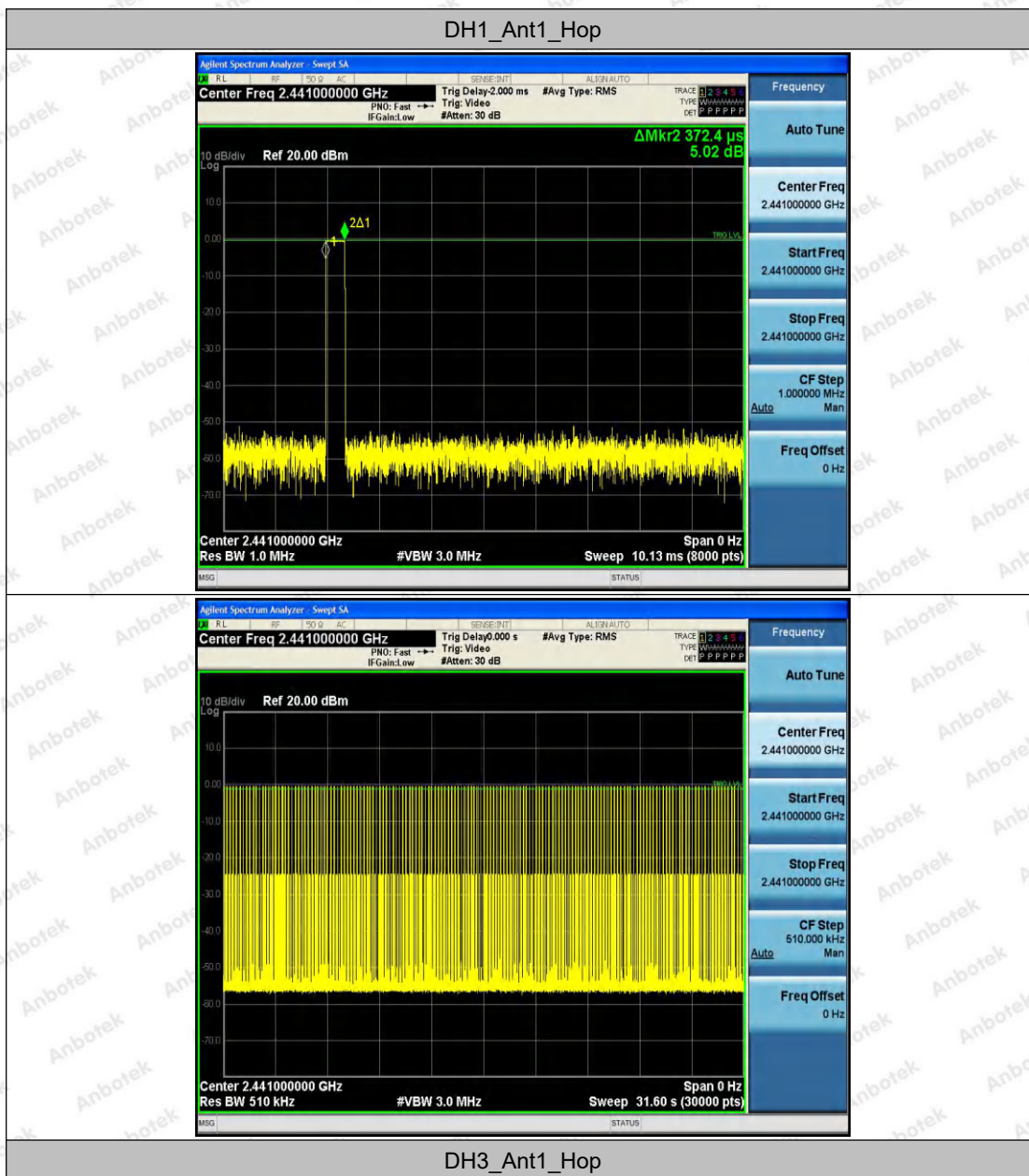
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Appendix E: Time of occupancy

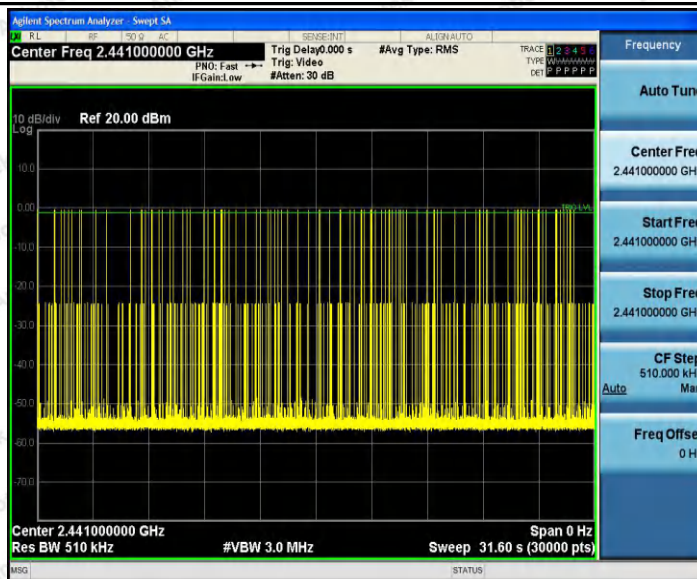
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.299	≤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	95	0.274	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

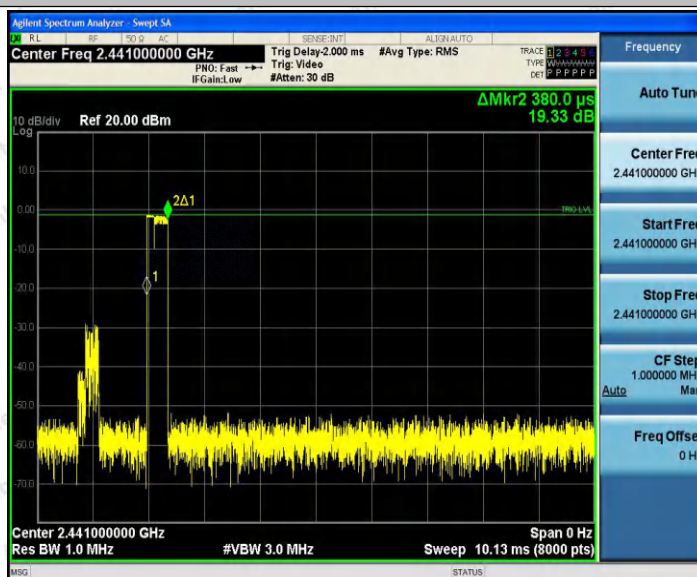
Test Graphs







2DH1_Ant1_Hop



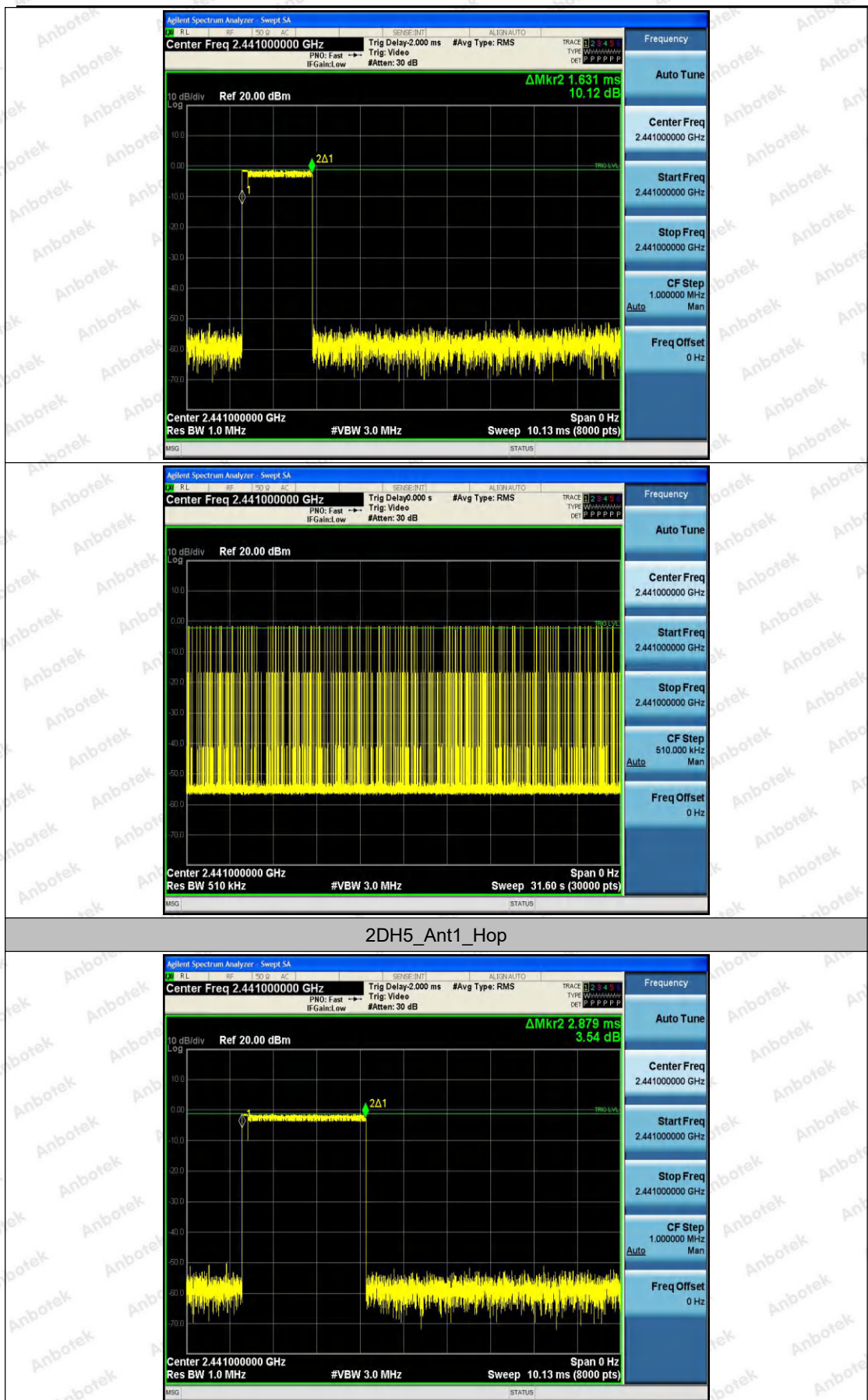
2DH3_Ant1_Hop

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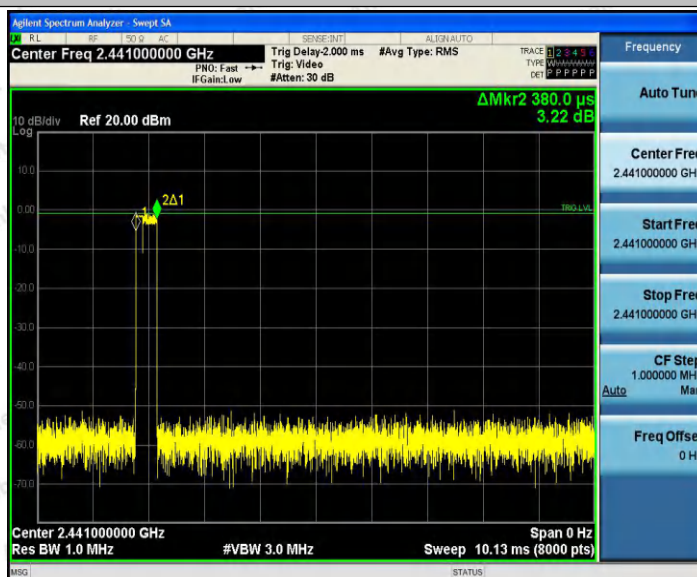
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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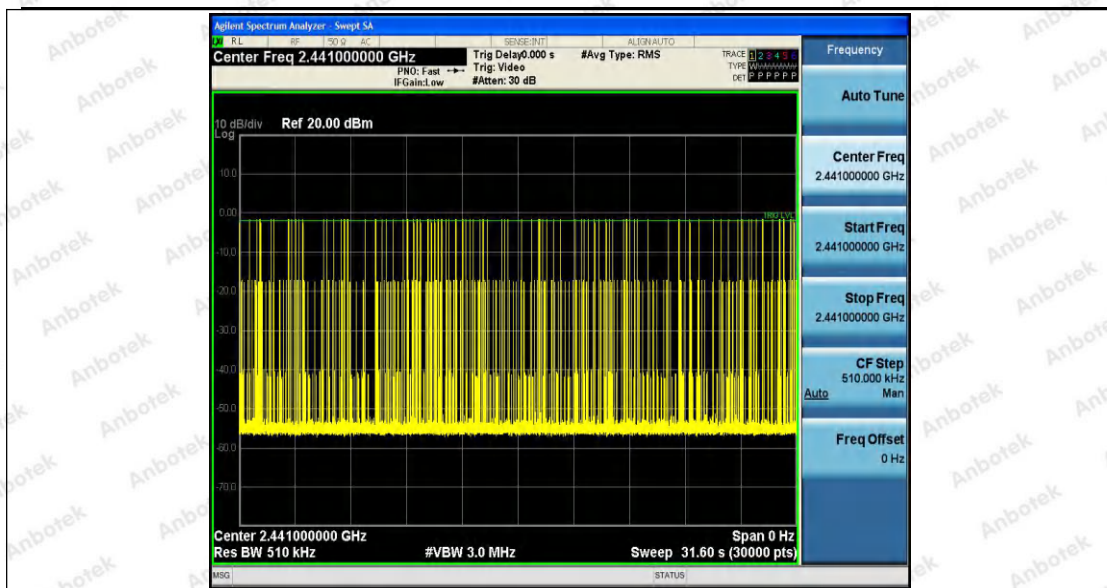
3DH5_Ant1_Hop

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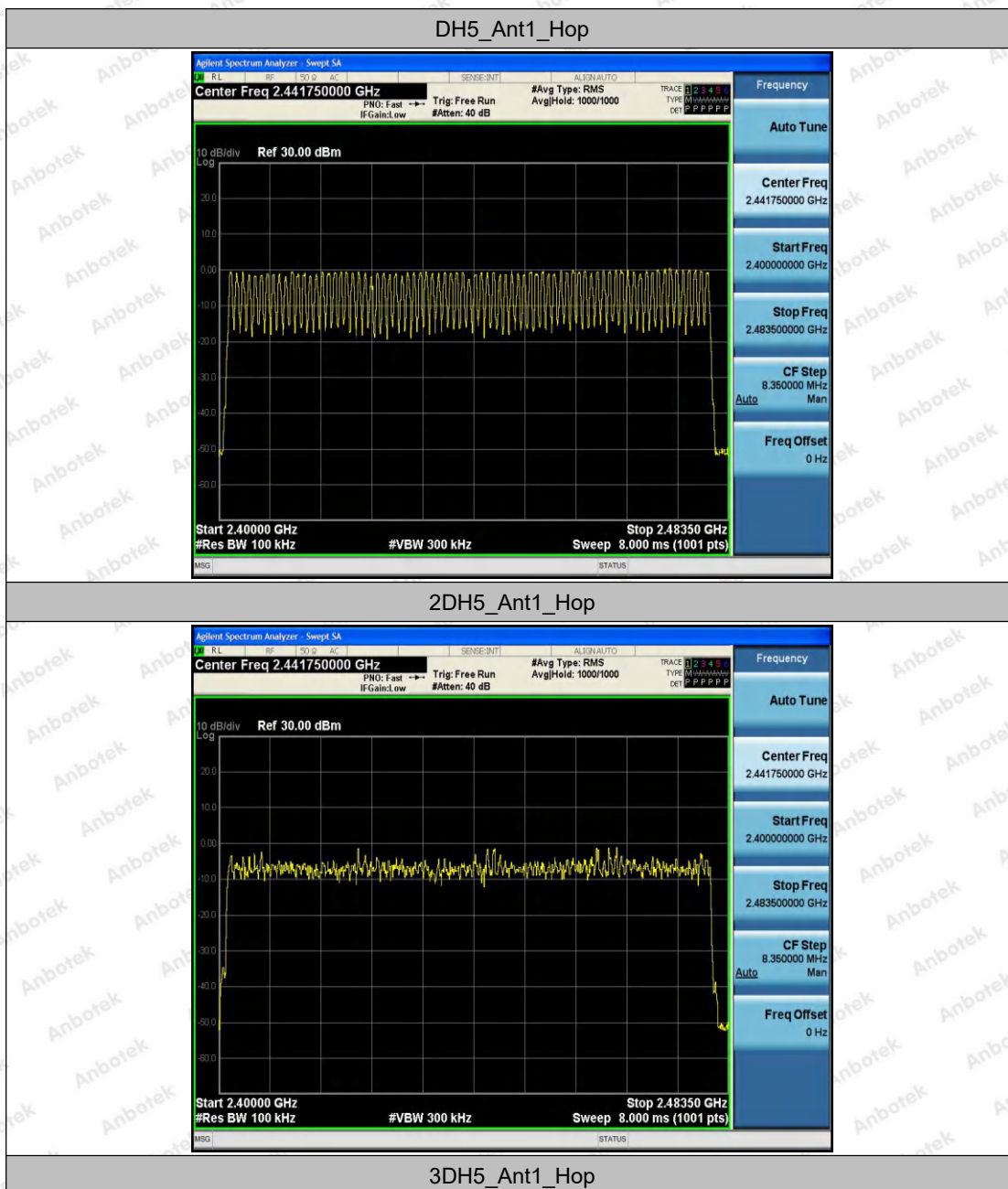
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Appendix F: Number of hopping channels

Test Result

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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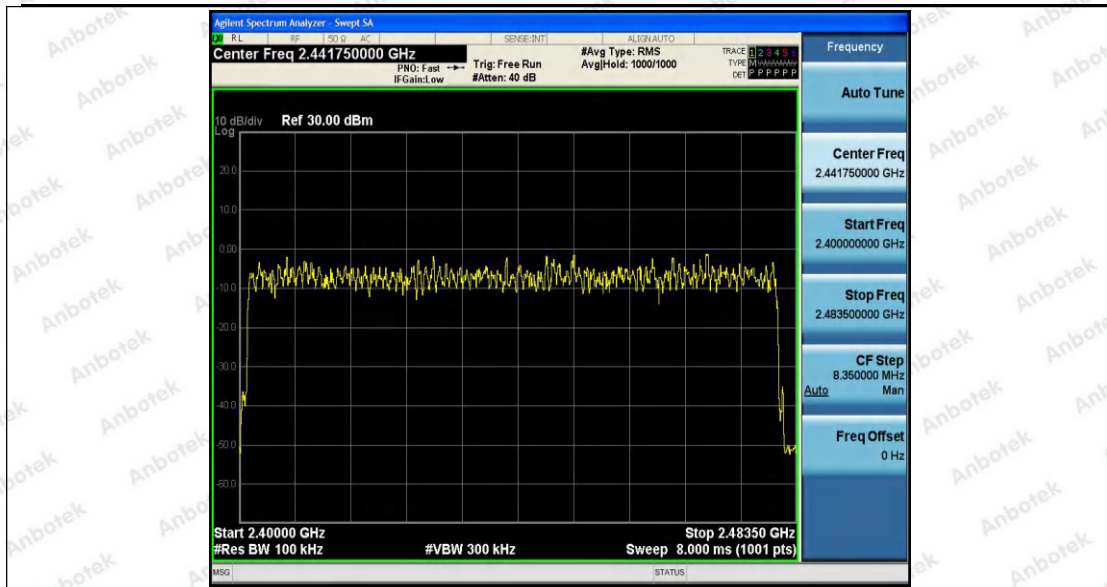
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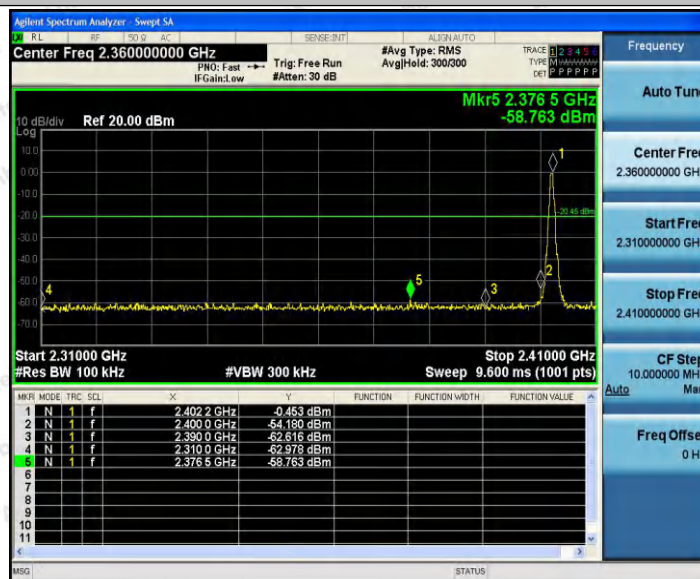
Appendix G: Band edge measurements

Test Result

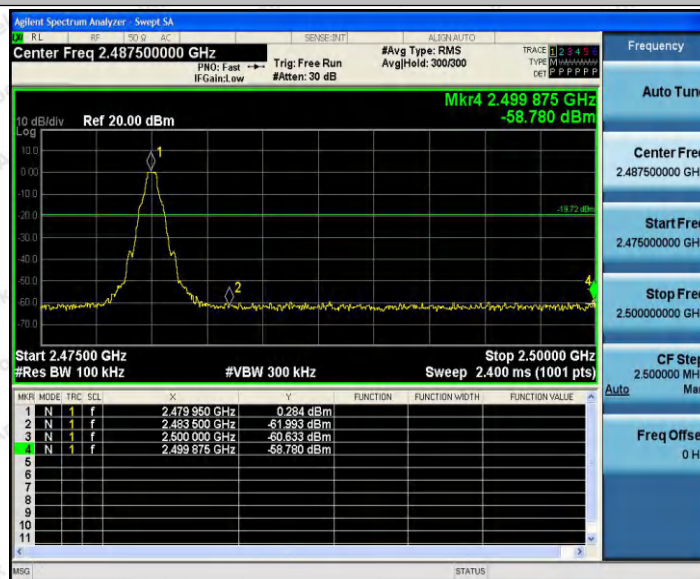
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.45	-58.76	≤-20.45	PASS
		High	2480	0.28	-58.78	≤-19.72	PASS
		Low	Hop	-0.62	-59.91	≤-20.62	PASS
		High	Hop	-0.03	-60.85	≤-20.03	PASS
2DH5	Ant1	Low	2402	-1.64	-56.71	≤-21.64	PASS
		High	2480	-1.22	-59.43	≤-21.22	PASS
		Low	Hop	-5.01	-59.42	≤-25.01	PASS
		High	Hop	-1.78	-61.76	≤-21.78	PASS
3DH5	Ant1	Low	2402	-1.44	-57.25	≤-21.44	PASS
		High	2480	-0.78	-59.25	≤-20.78	PASS
		Low	Hop	-2.23	-59.3	≤-22.23	PASS
		High	Hop	-2.91	-61.85	≤-22.91	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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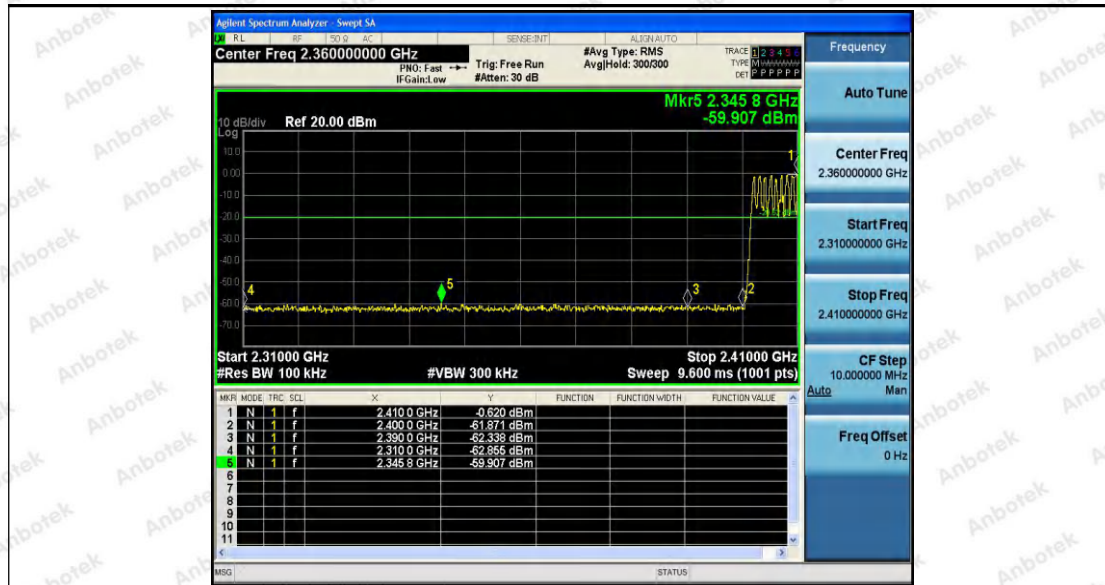
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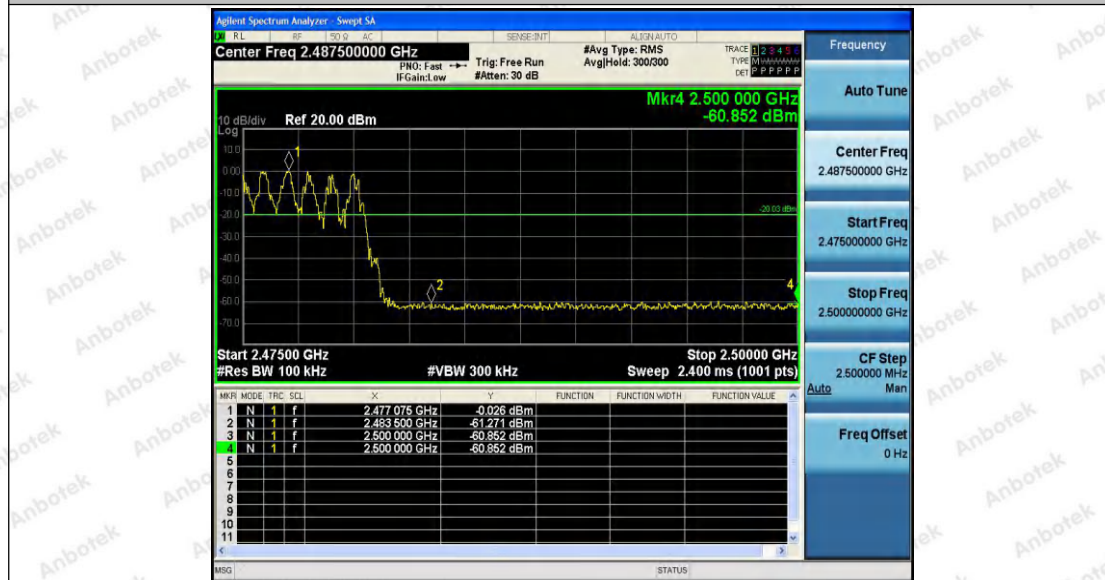
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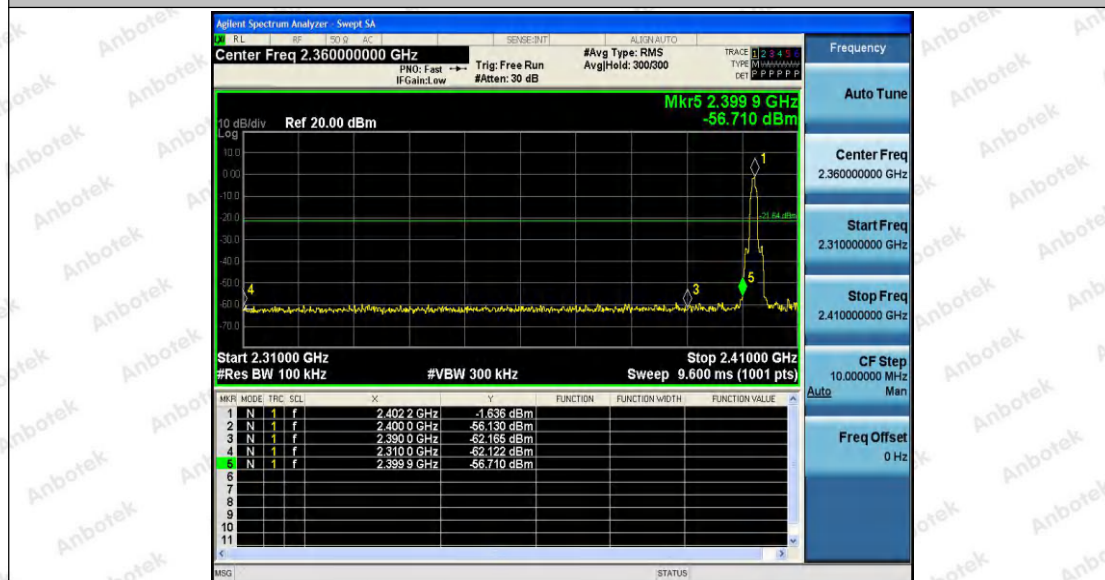
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



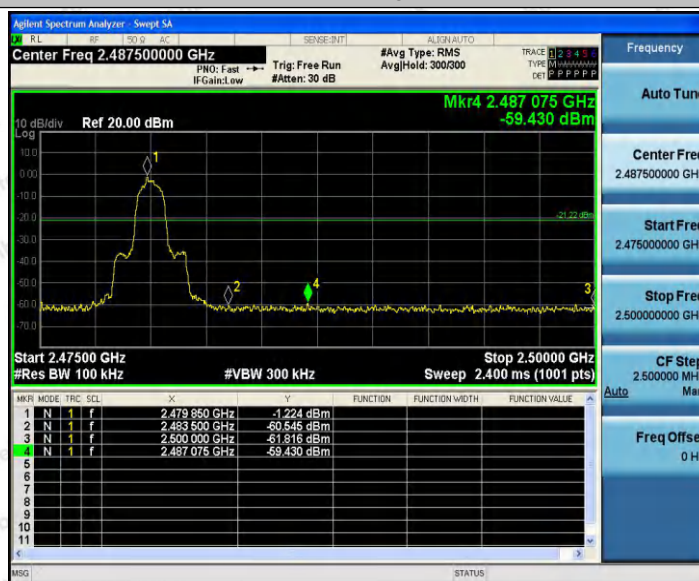
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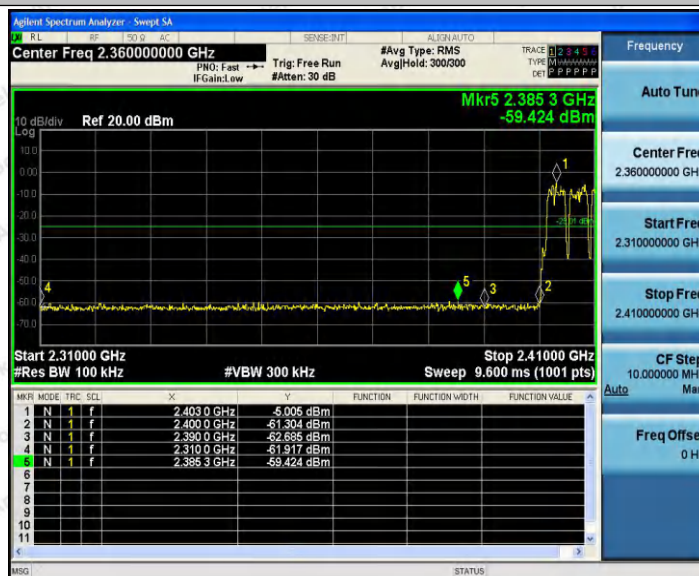
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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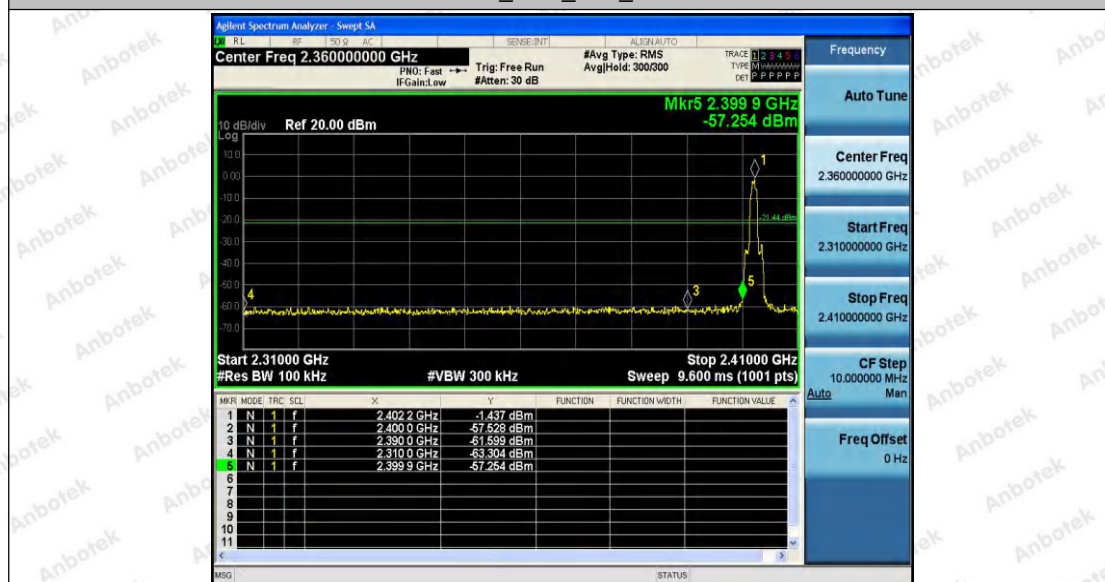
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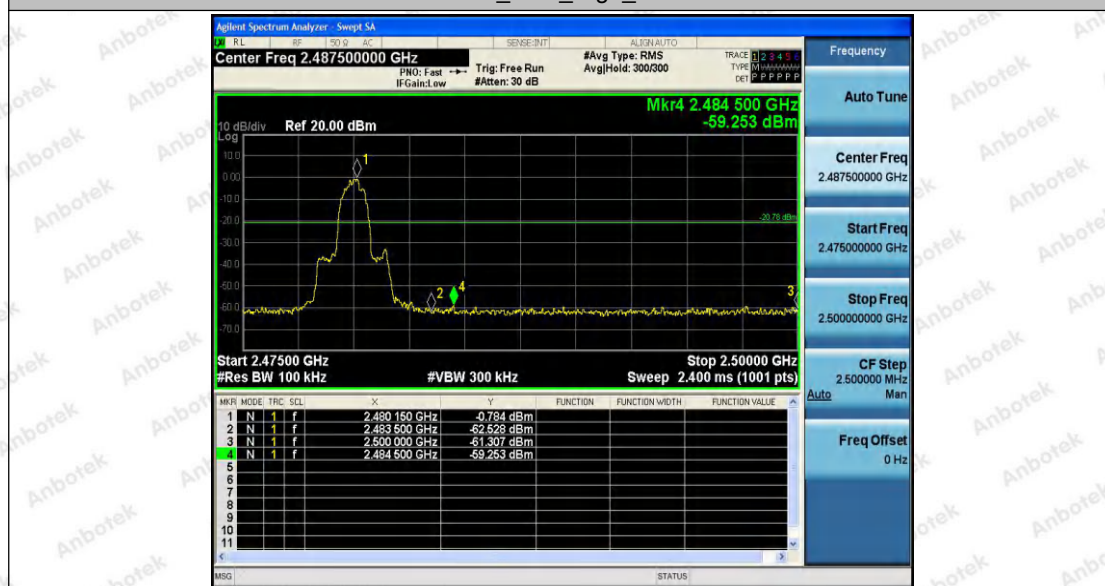
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

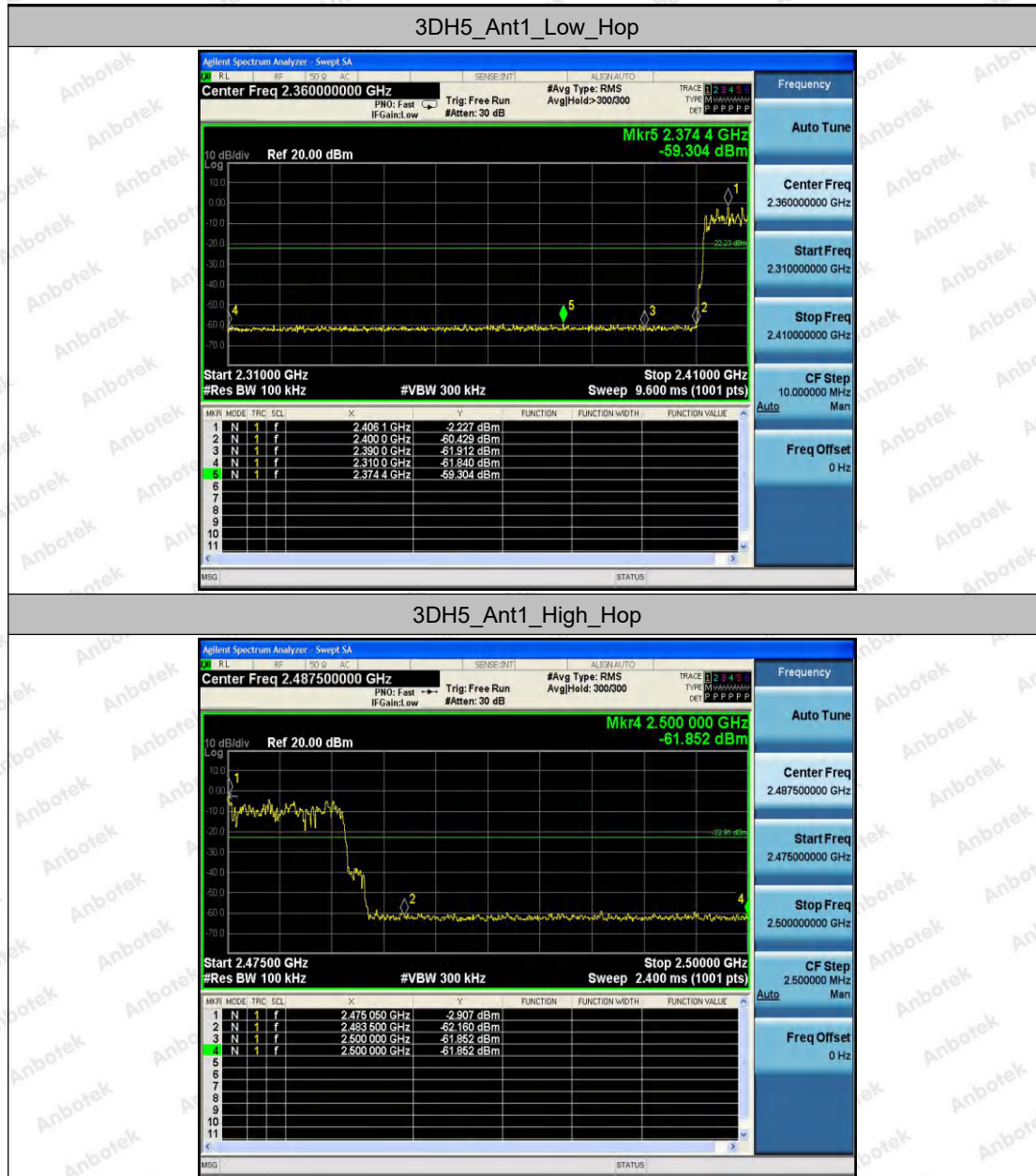


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Appendix H: Conducted Spurious Emission

Test Result

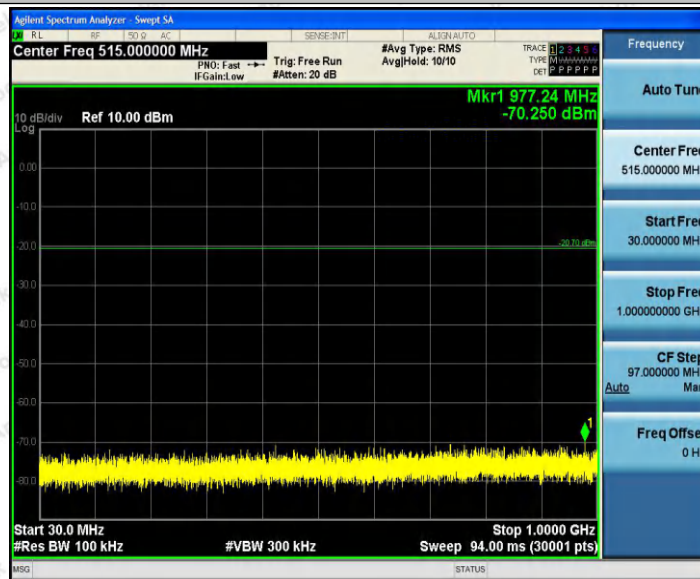
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-70.25	≤-20.7	PASS
			1000~26500	-0.70	-55.07	≤-20.7	PASS
		2441	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-70.51	≤-20.49	PASS
			1000~26500	-0.49	-55.05	≤-20.49	PASS
		2480	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-70.03	≤-19.78	PASS
			1000~26500	0.22	-53.91	≤-19.78	PASS
2DH5	Ant1	2402	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-70.79	≤-22.36	PASS
			1000~26500	-2.36	-55.66	≤-22.36	PASS
		2441	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-70.14	≤-21.76	PASS
			1000~26500	-1.76	-55.42	≤-21.76	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-70.05	≤-21.06	PASS
			1000~26500	-1.06	-55.2	≤-21.06	PASS
3DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-68.86	≤-21.43	PASS
			1000~26500	-1.43	-54.13	≤-21.43	PASS
		2441	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-70.36	≤-22.2	PASS
			1000~26500	-2.20	-54.8	≤-22.2	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-70.59	≤-21.09	PASS
			1000~26500	-1.09	-55.21	≤-21.09	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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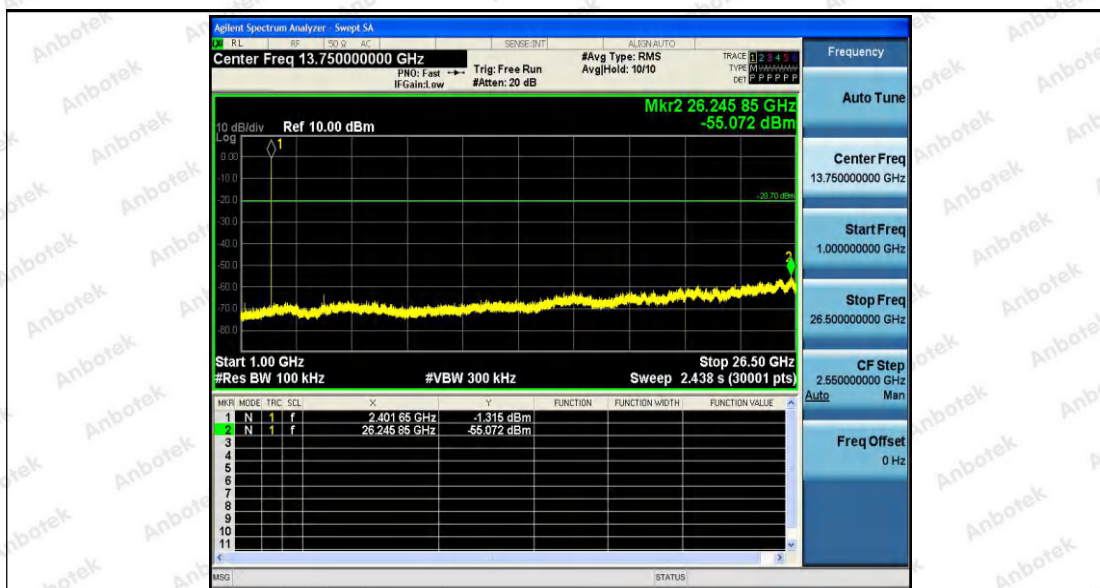
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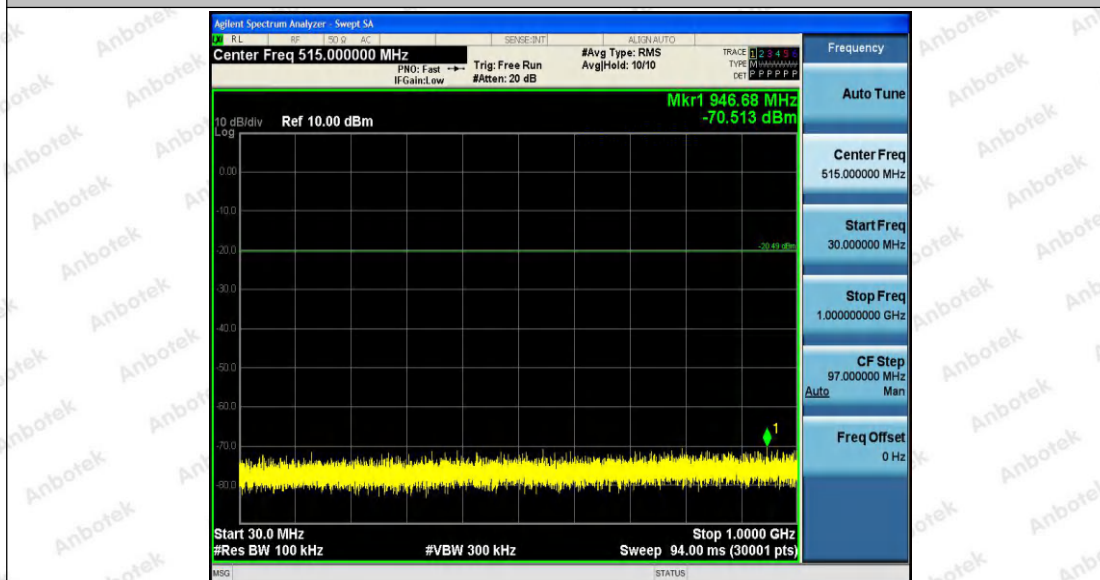
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



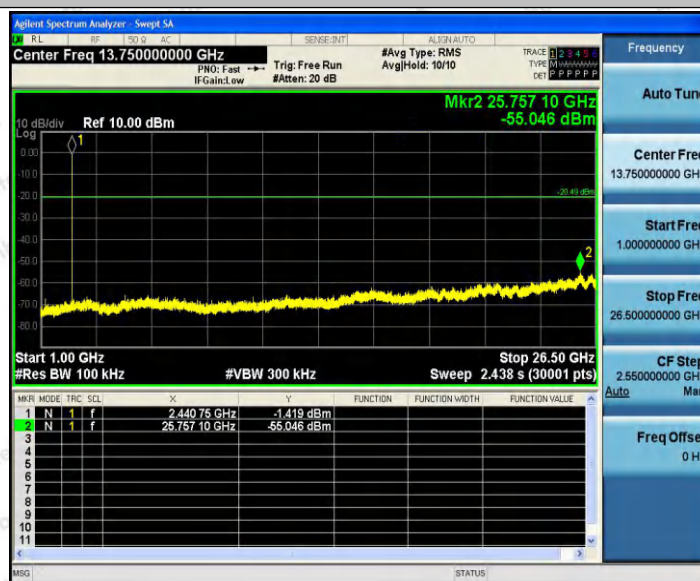
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



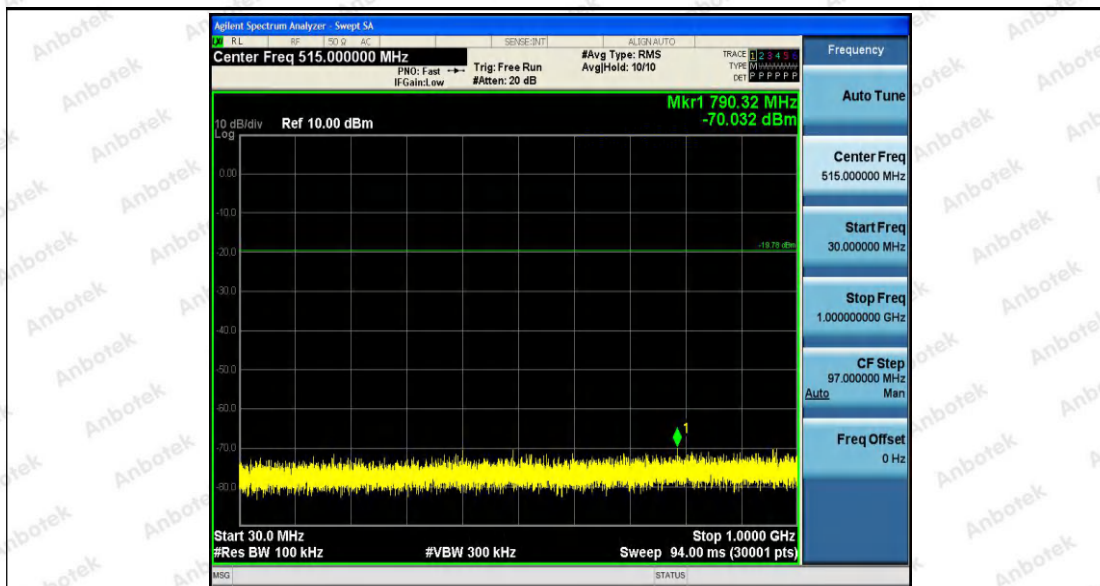
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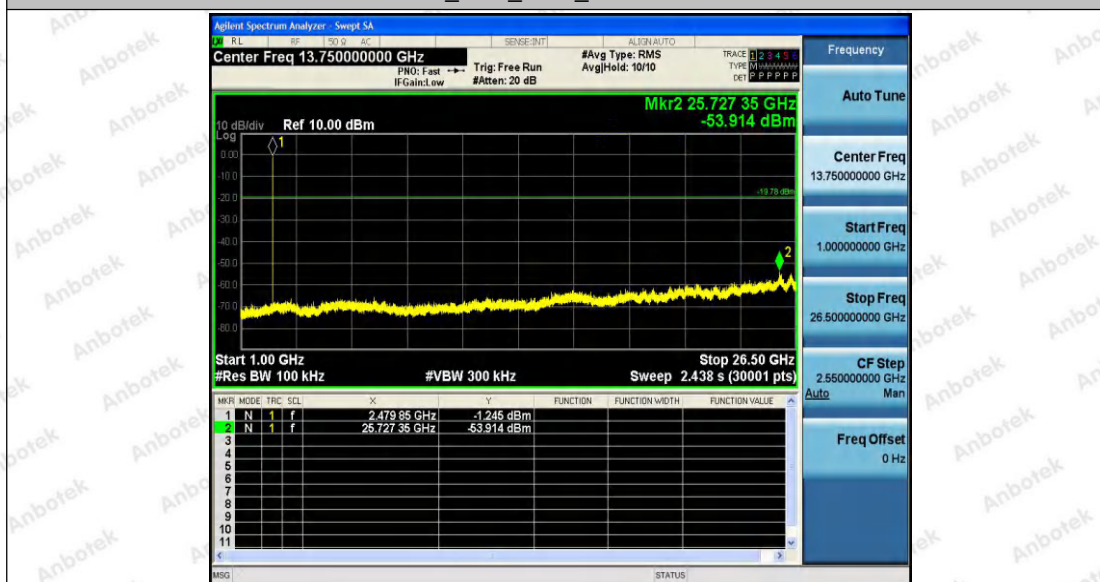
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DH5_Ant1_2480_1000~26500



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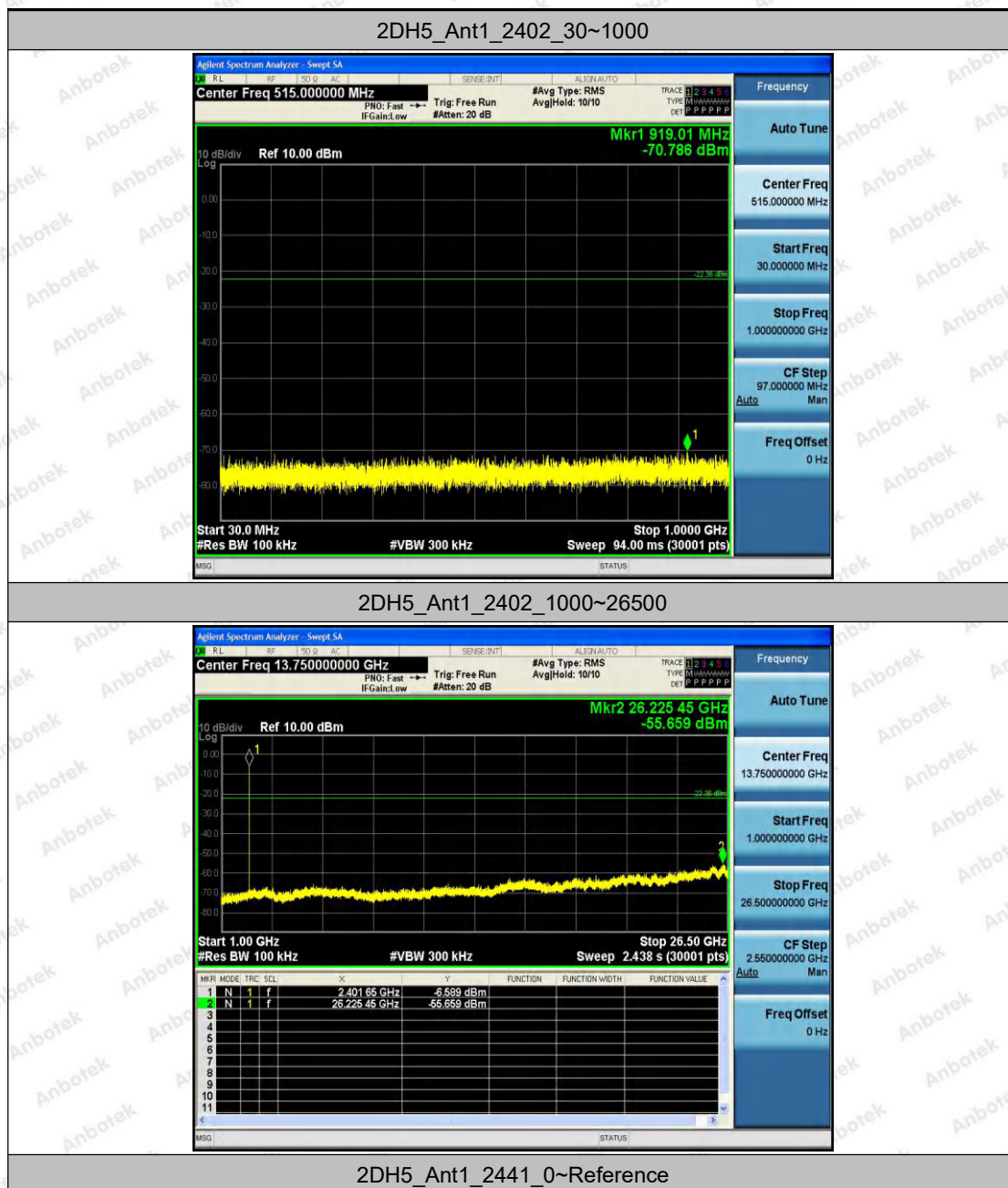


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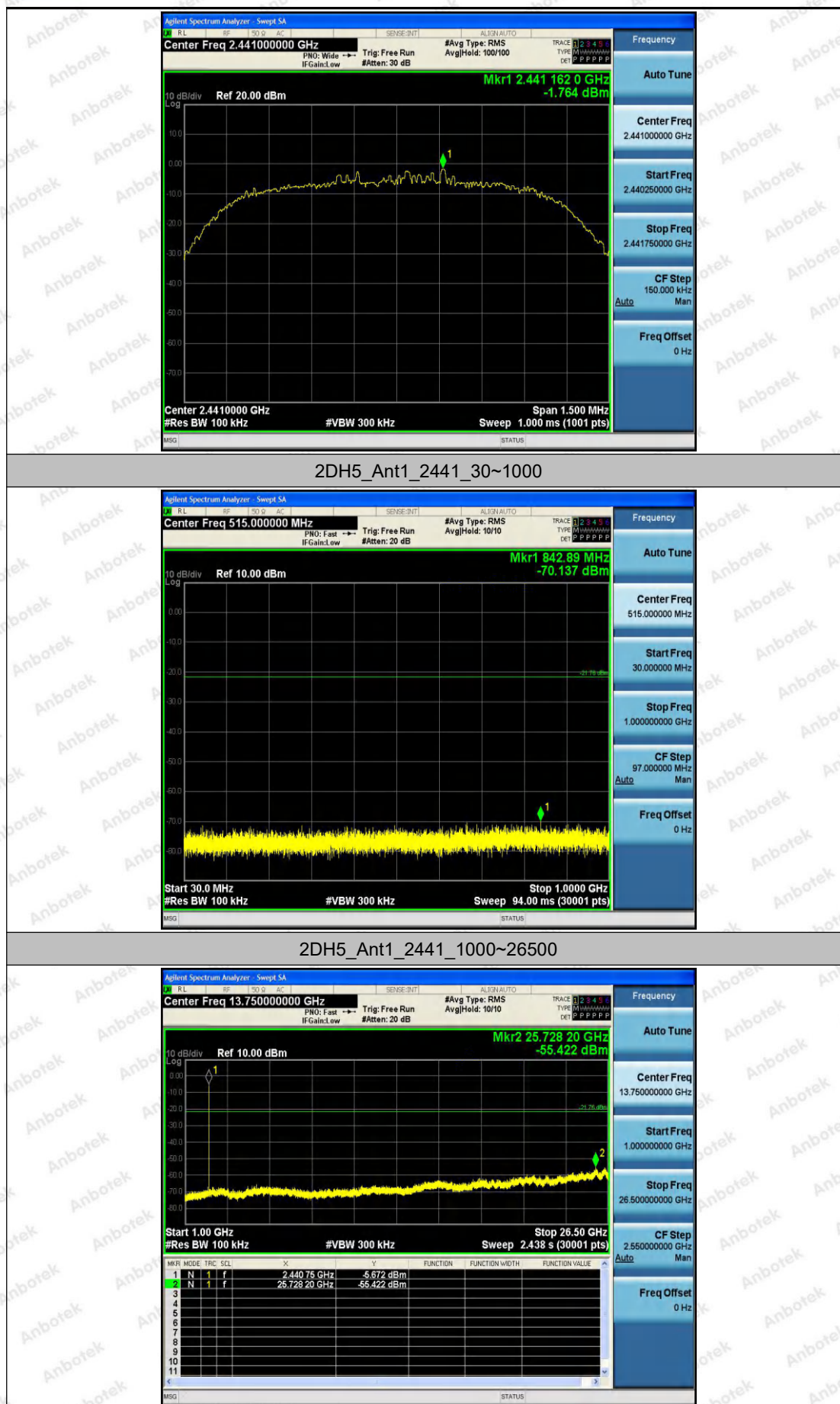


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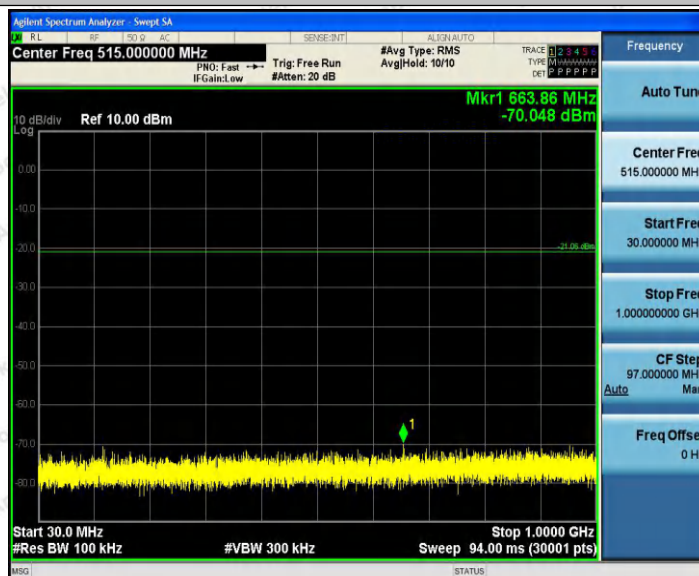
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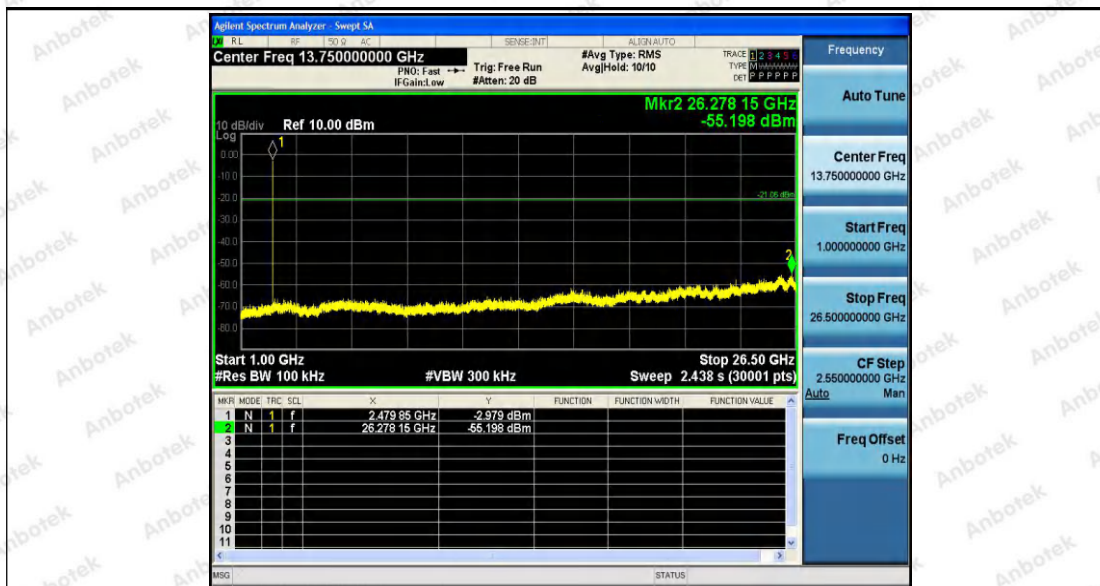
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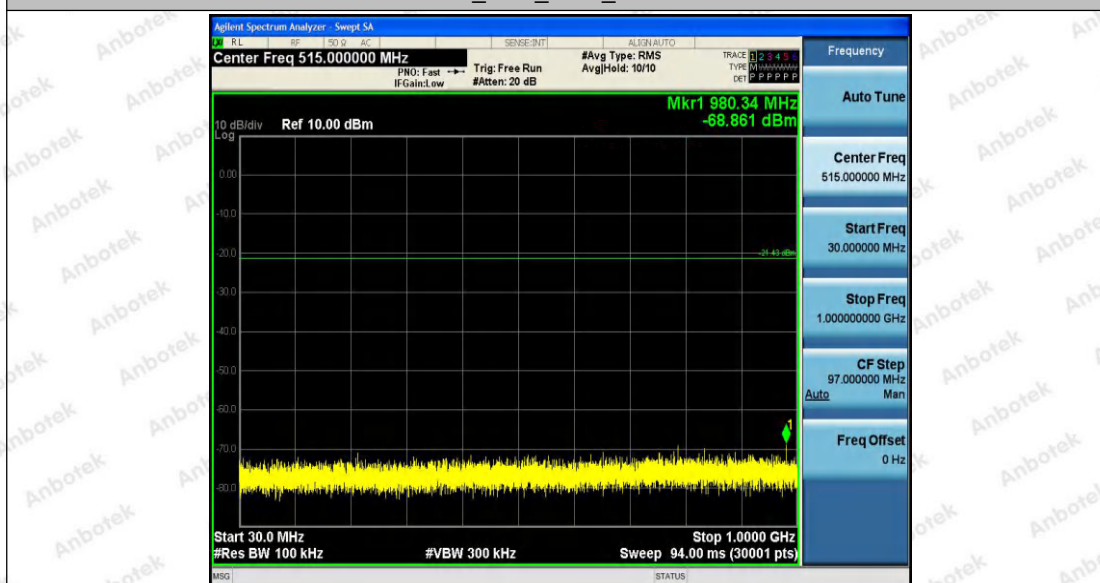
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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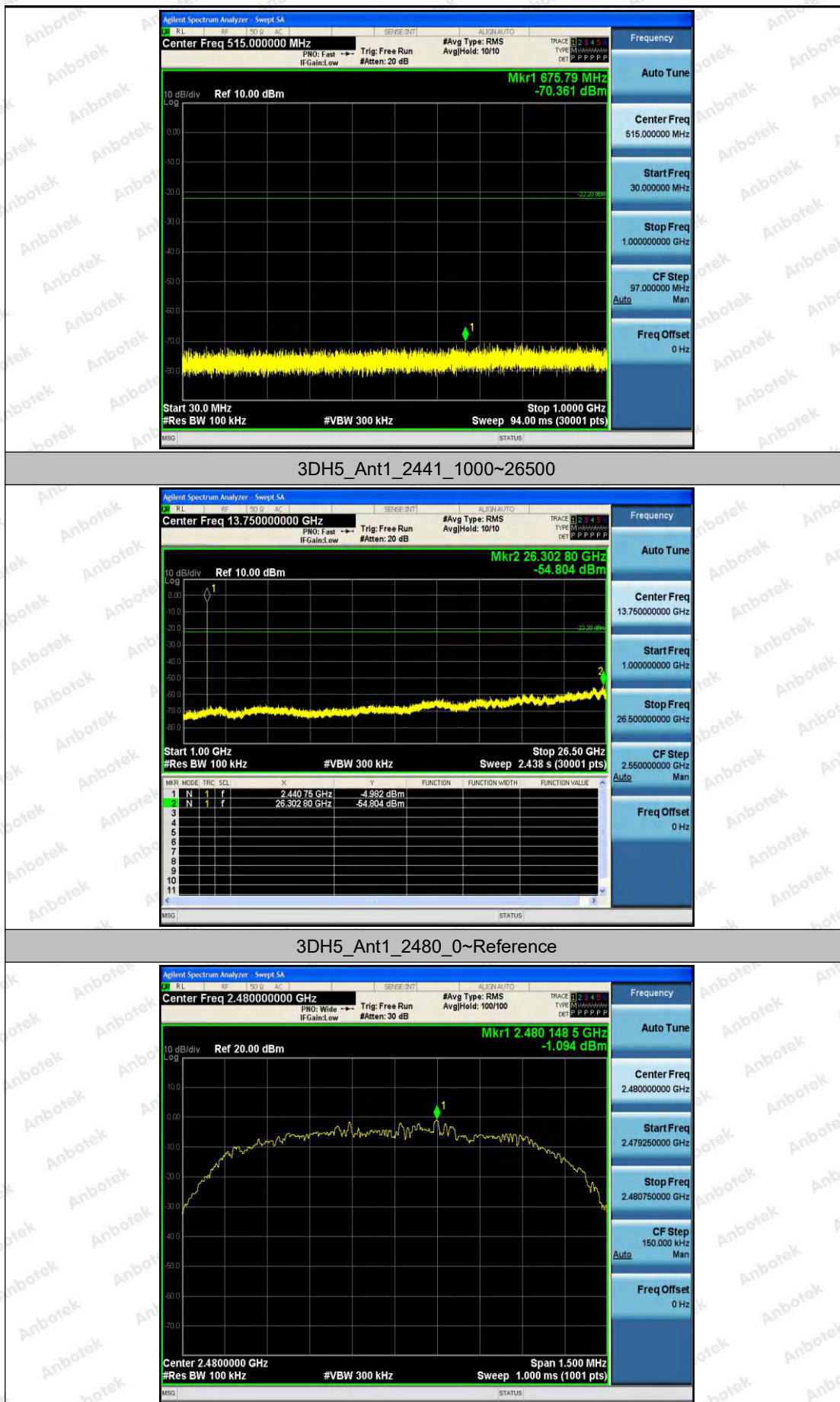
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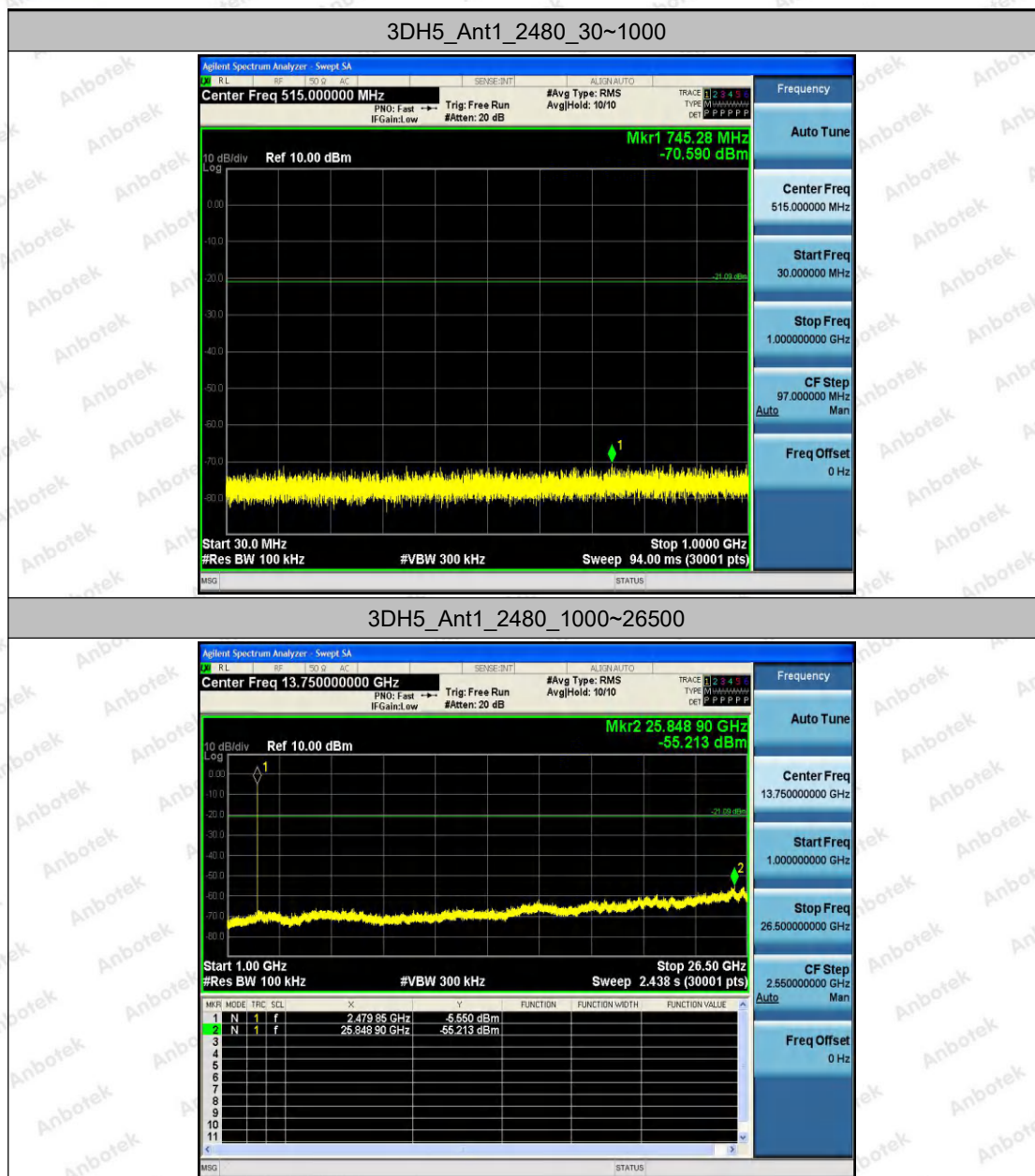


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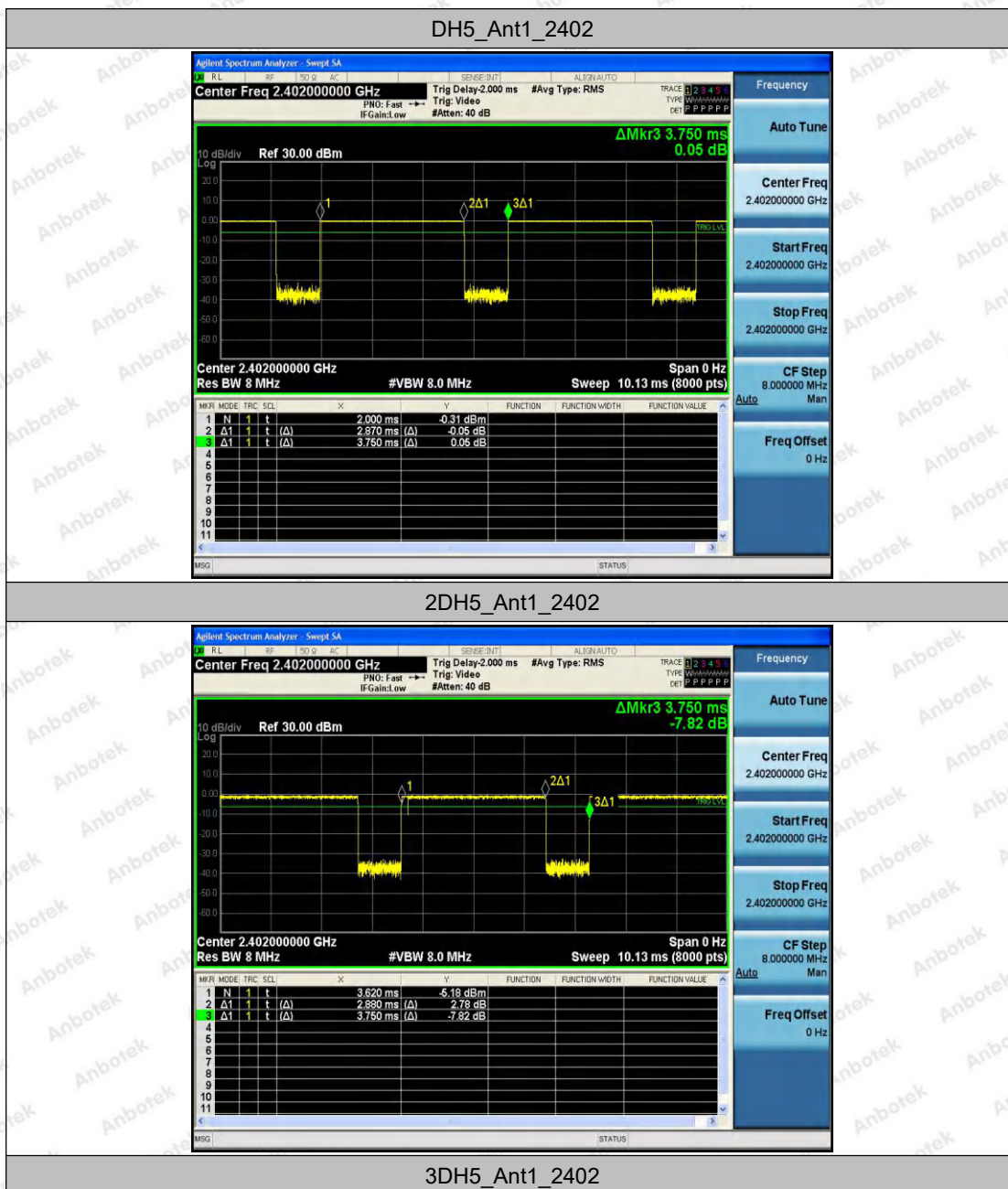
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Appendix I: Duty Cycle

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	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

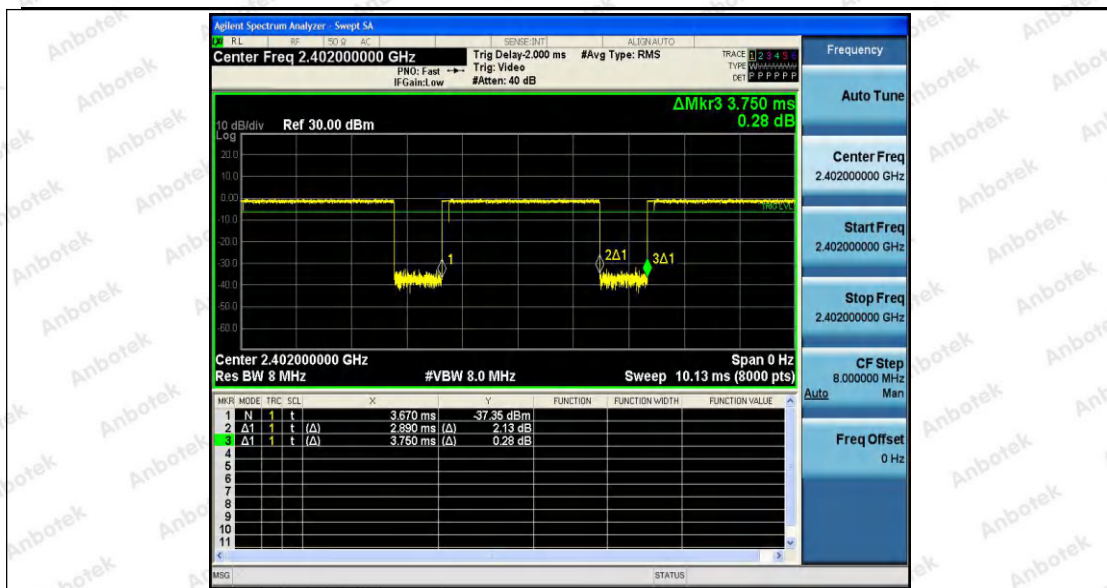


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