

Appendix Test Data

Report No.:	18220WC20073001	Test Sample No.:	1-2-2
Start Test Date:	2022.4.11	Finish Test Date:	2022.4.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
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	2401.541	2402.489	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.266	2401.367	2402.633	---	PASS
		2441	1.326	2440.337	2441.663	---	PASS
		2480	1.266	2479.367	2480.633	---	PASS
3DH5	Ant1	2402	1.308	2401.346	2402.654	---	PASS
		2441	1.269	2440.355	2441.624	---	PASS
		2480	1.278	2479.349	2480.627	---	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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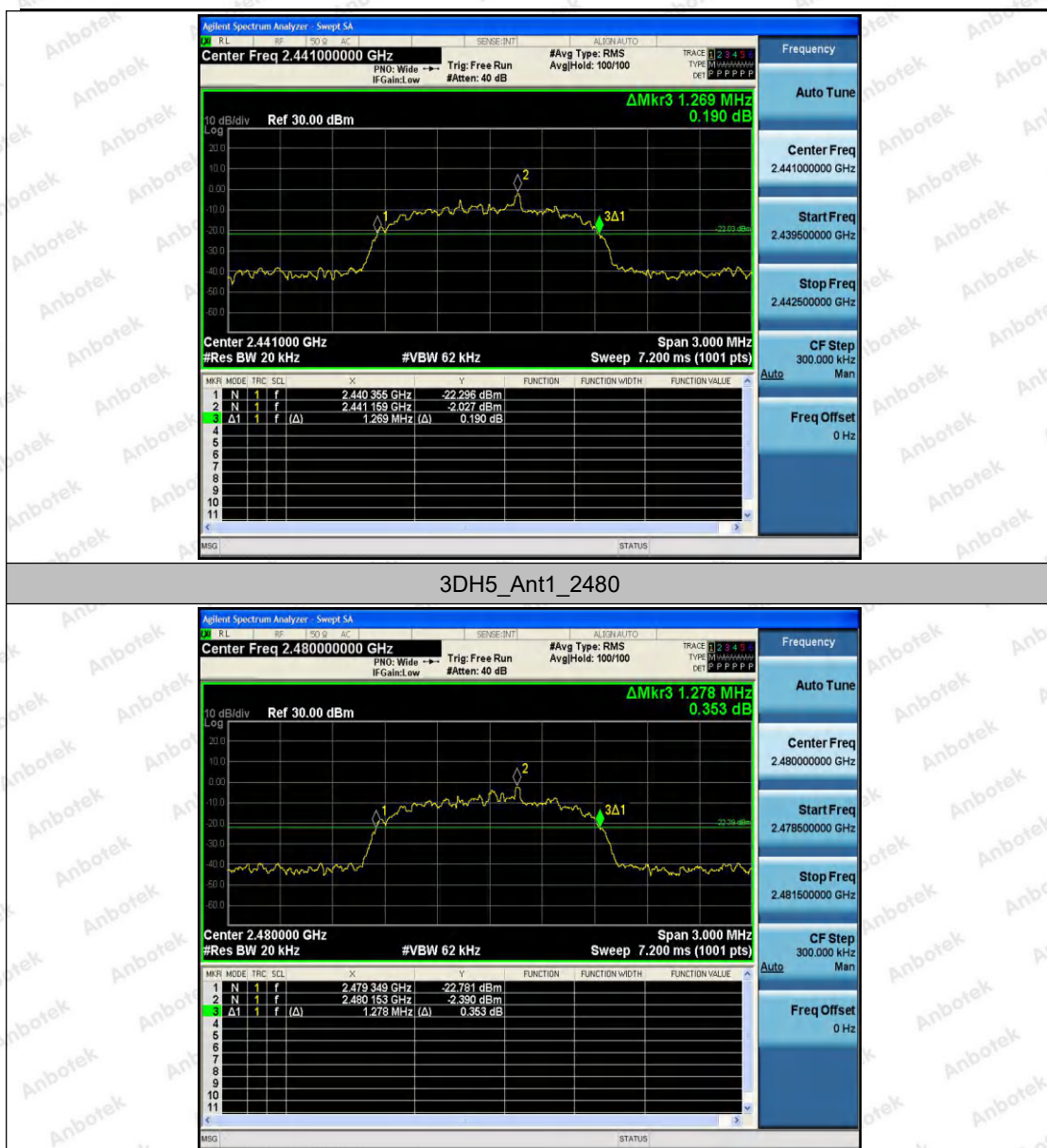
2DH5_Ant1_2480



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	0.88598	2401.55 9	2402.445	---	PASS
		2441	0.88491	2440.55 8	2441.443	---	PASS
		2480	0.89571	2479.55 5	2480.451	---	PASS
2DH5	Ant1	2402	1.1886	2401.40 5	2402.594	---	PASS
		2441	1.1991	2440.40 1	2441.600	---	PASS
		2480	1.1966	2479.40 2	2480.598	---	PASS
3DH5	Ant1	2402	1.2053	2401.38 8	2402.593	---	PASS
		2441	1.2122	2440.38 5	2441.597	---	PASS
		2480	1.2061	2479.38 9	2480.595	---	PASS

Test Graphs

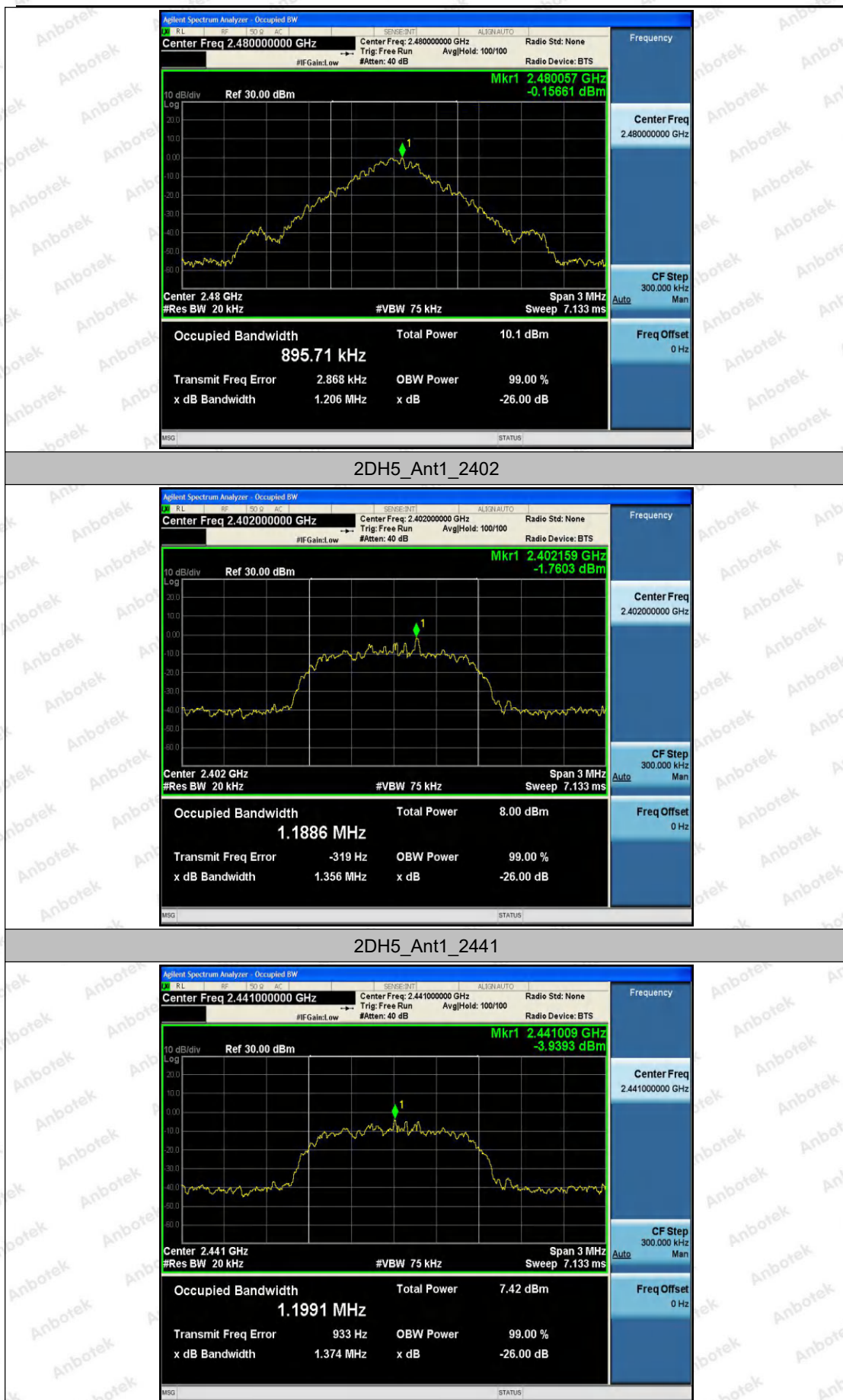


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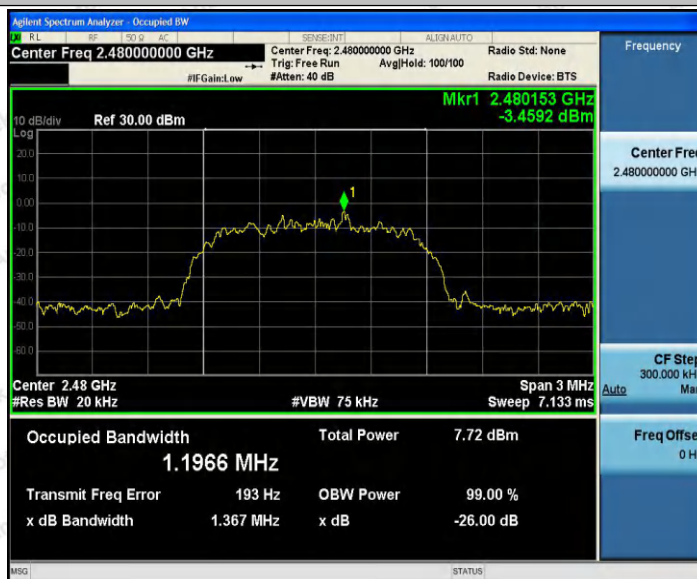
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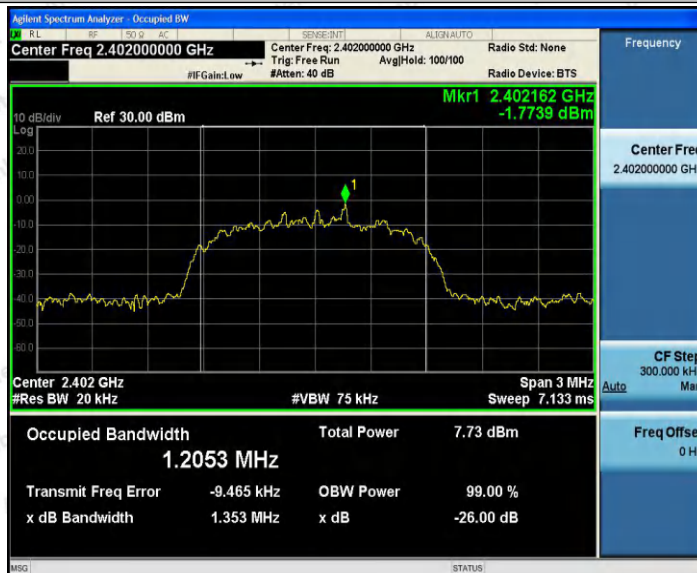
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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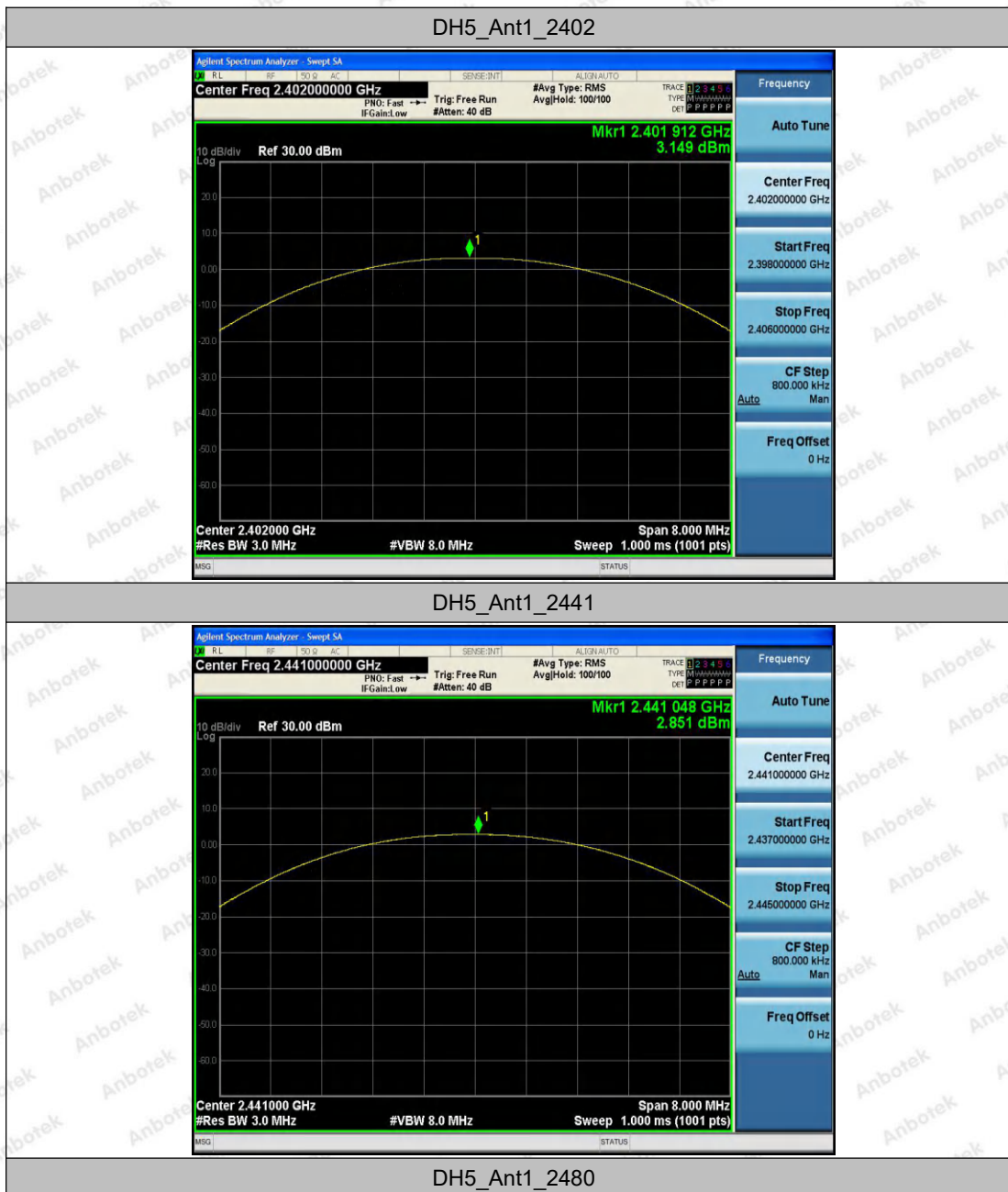
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.15	≤20.97	PASS
		2441	2.85	≤20.97	PASS
		2480	3.53	≤20.97	PASS
2DH5	Ant1	2402	2.43	≤20.97	PASS
		2441	2.18	≤20.97	PASS
		2480	2.67	≤20.97	PASS
3DH5	Ant1	2402	2.56	≤20.97	PASS
		2441	2.3	≤20.97	PASS
		2480	2.84	≤20.97	PASS

Test Graphs





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	0.696	≥ 0.632	PASS
2DH5	Ant1	Hop	1.168	≥ 0.884	PASS
3DH5	Ant1	Hop	0.99	≥ 0.872	PASS

Test Graphs

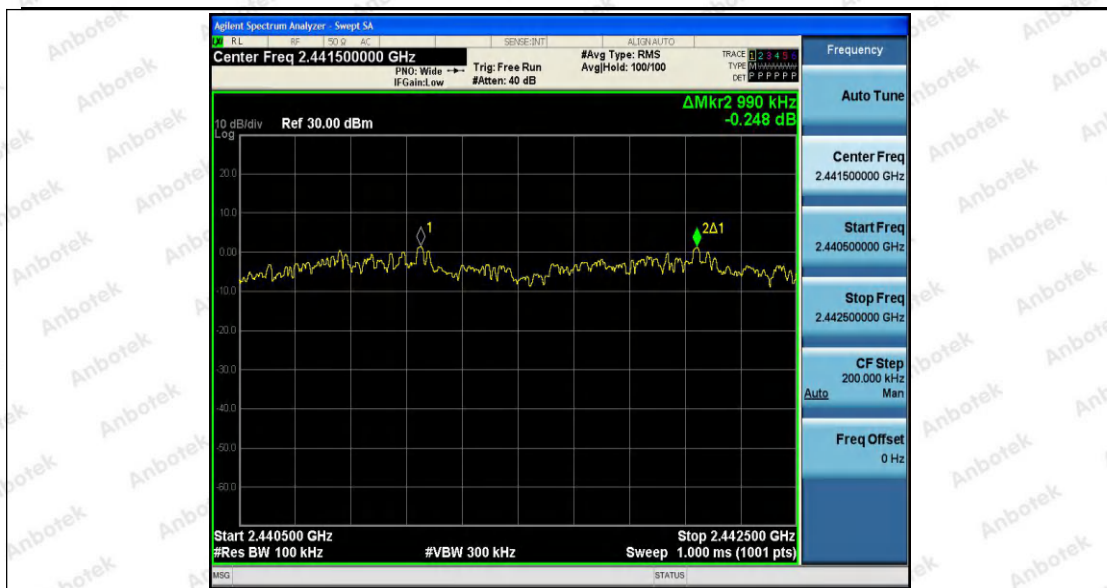


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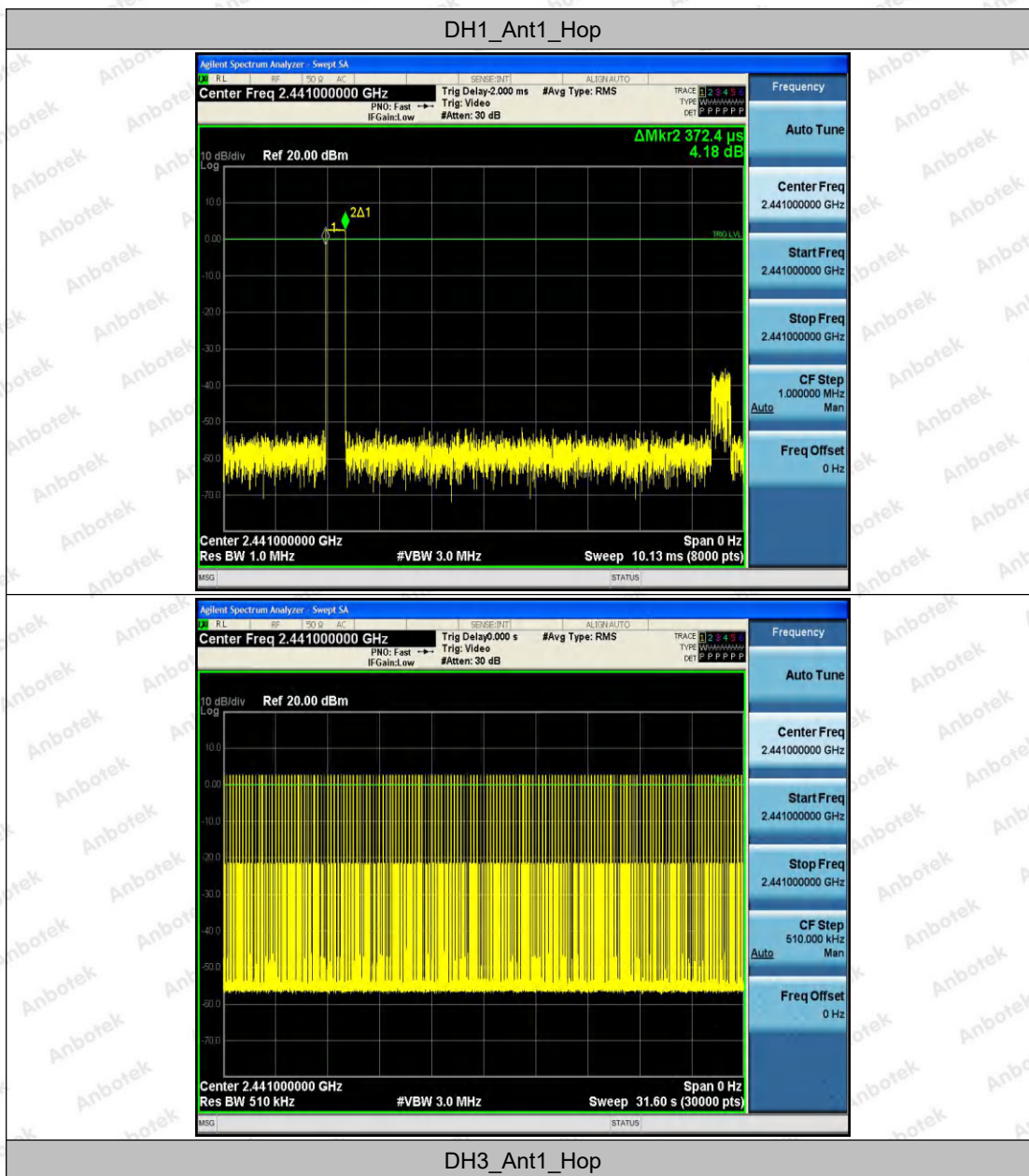
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Appendix E: Time of occupancy

Test Result

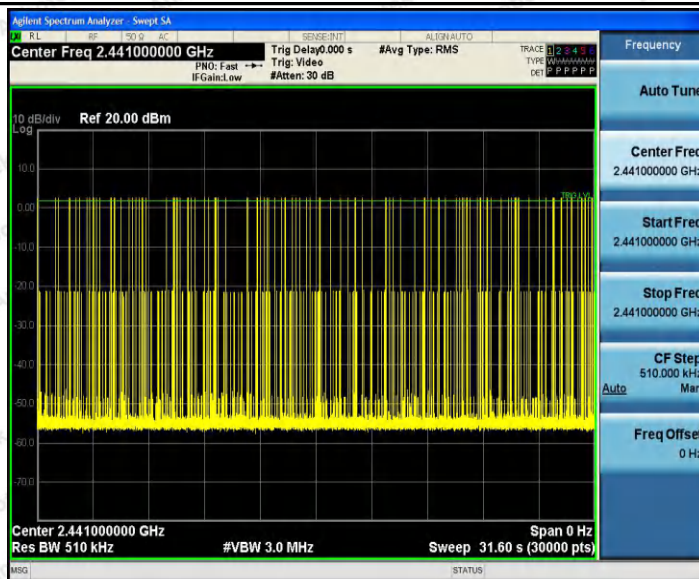
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	92	0.265	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	95	0.274	≤0.4	PASS

Test Graphs

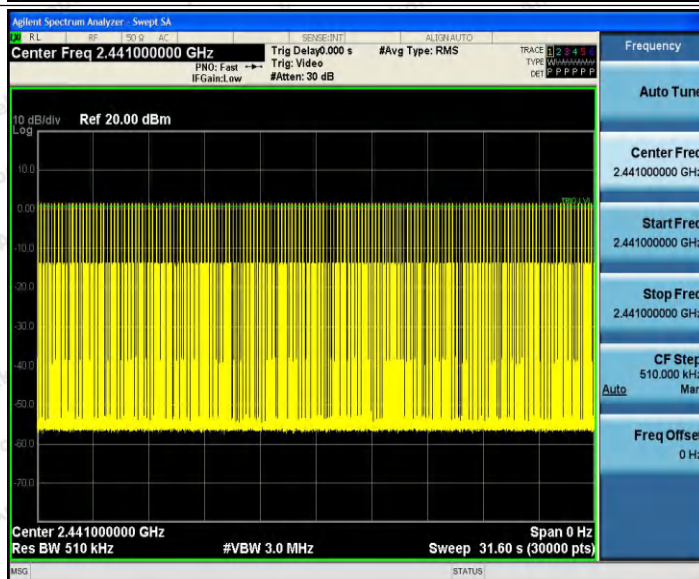
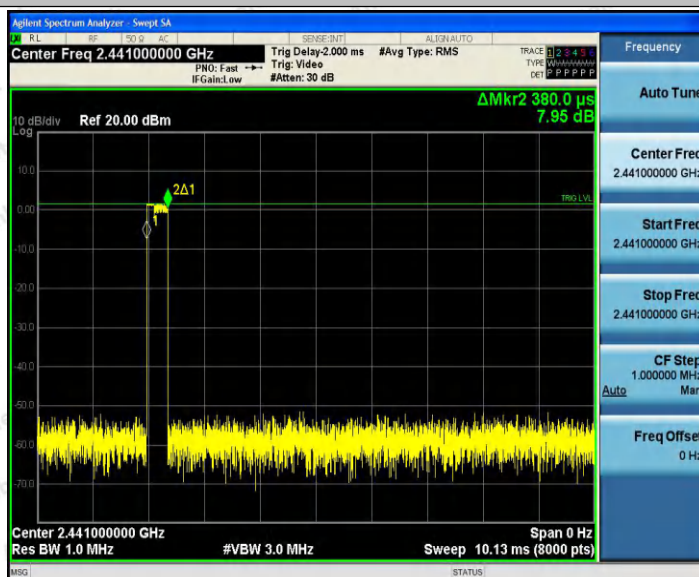




DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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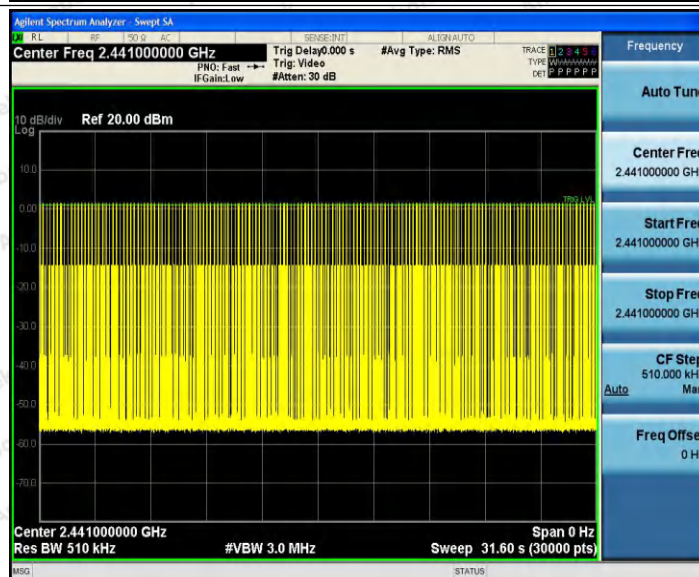
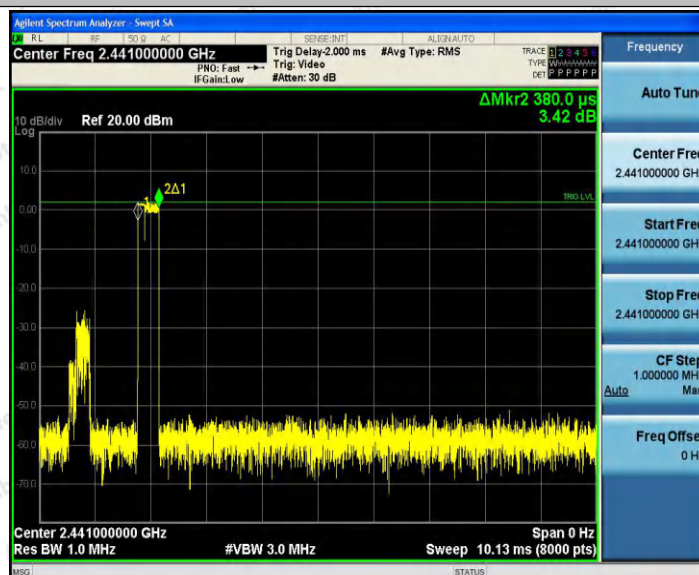
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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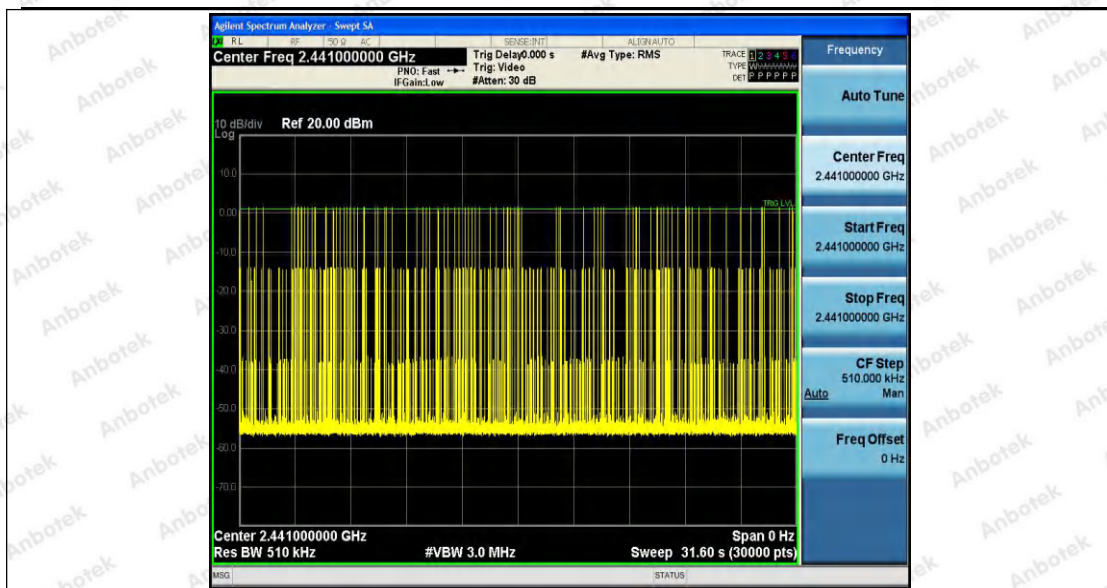


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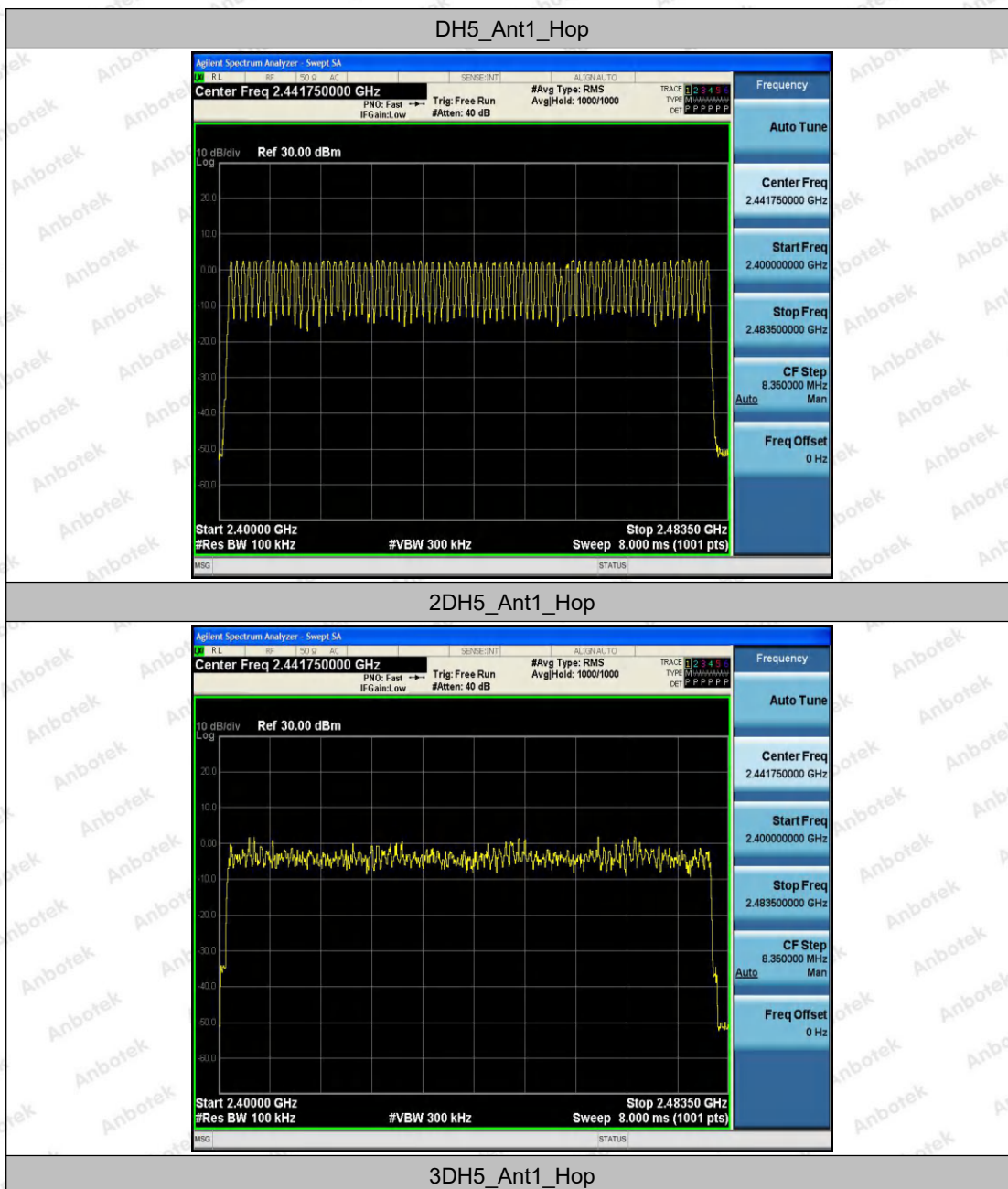
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Appendix F: Number of hopping channels

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

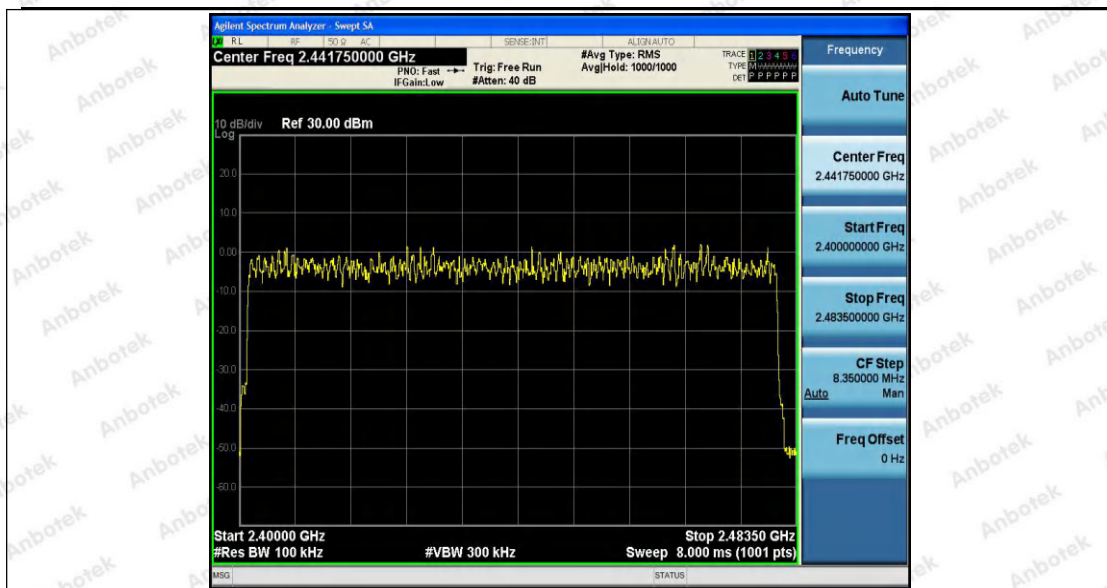


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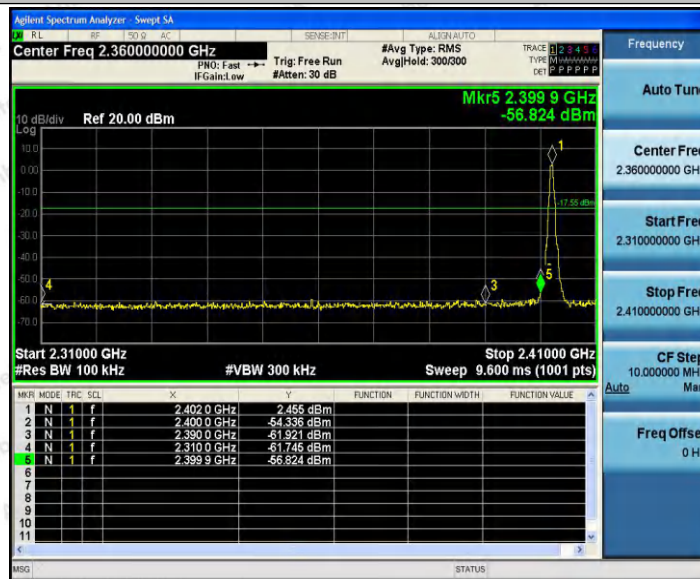
Appendix G: Band edge measurements

Test Result

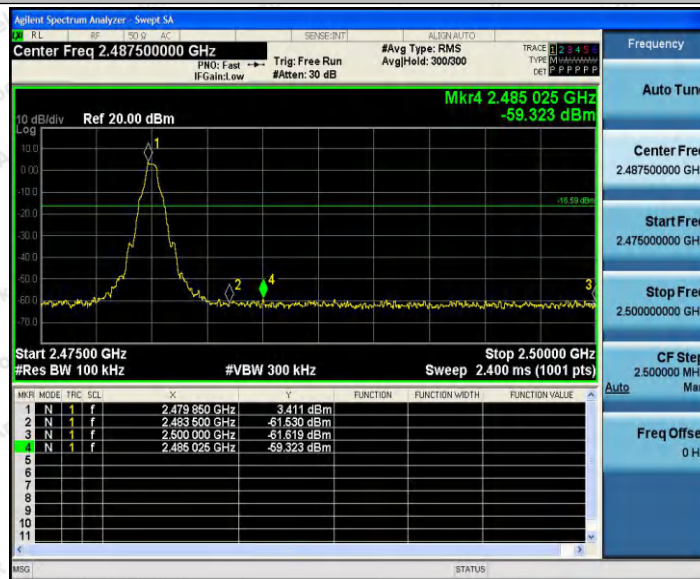
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.46	-56.82	≤-17.55	PASS
		High	2480	3.41	-59.32	≤-16.59	PASS
		Low	Hop	2.54	-59.8	≤-17.47	PASS
		High	Hop	2.83	-62.81	≤-17.17	PASS
2DH5	Ant1	Low	2402	1.75	-55.82	≤-18.25	PASS
		High	2480	1.78	-58.8	≤-18.23	PASS
		Low	Hop	-1.39	-59.69	≤-21.39	PASS
		High	Hop	0.96	-63.35	≤-19.04	PASS
3DH5	Ant1	Low	2402	1.15	-53.98	≤-18.85	PASS
		High	2480	1.96	-59.16	≤-18.04	PASS
		Low	Hop	-2.02	-59.79	≤-22.02	PASS
		High	Hop	-0.09	-61.98	≤-20.09	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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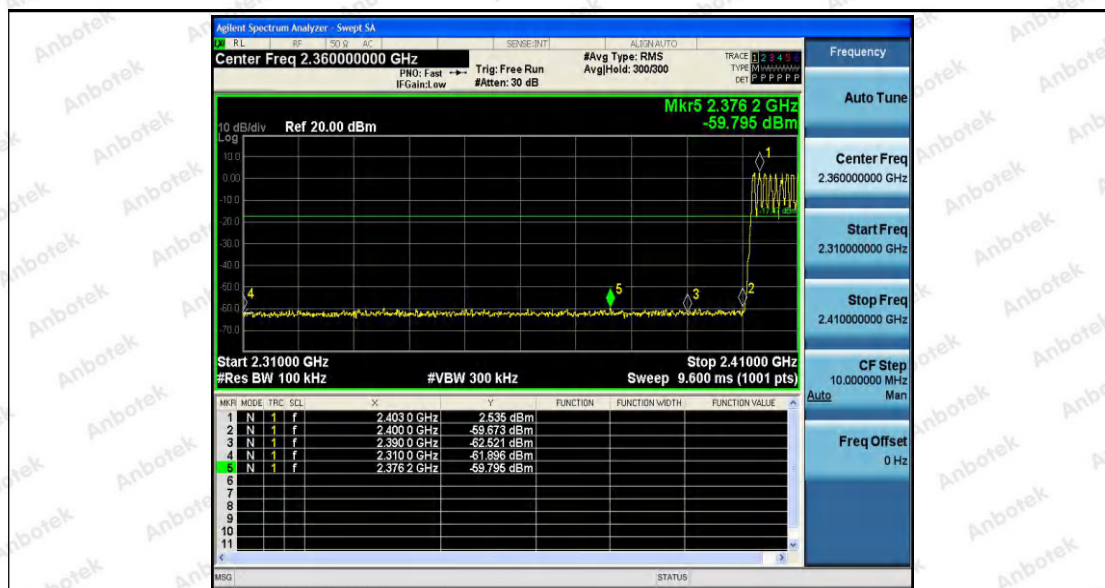
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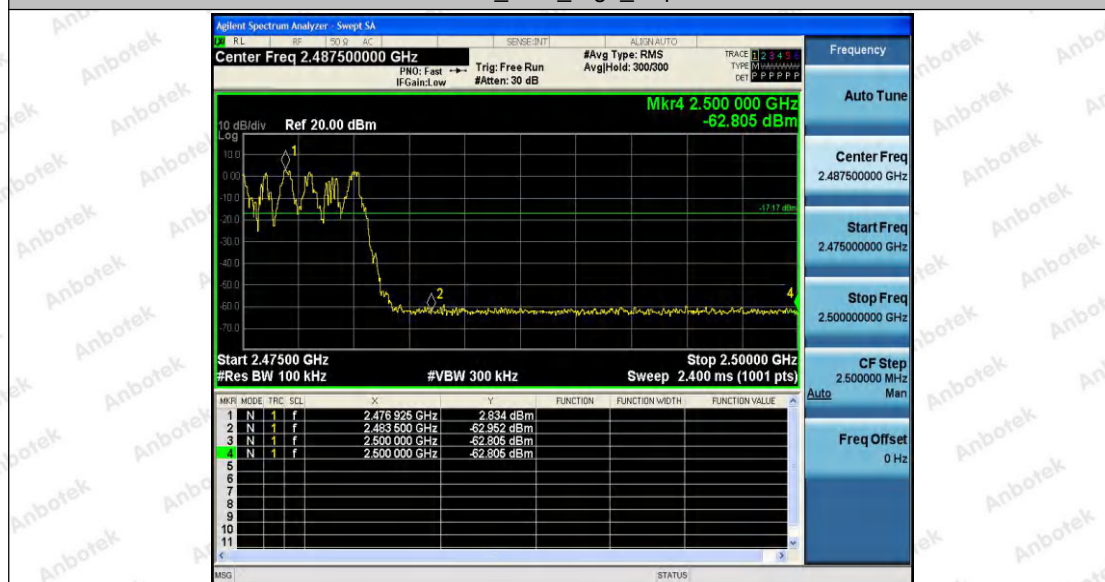
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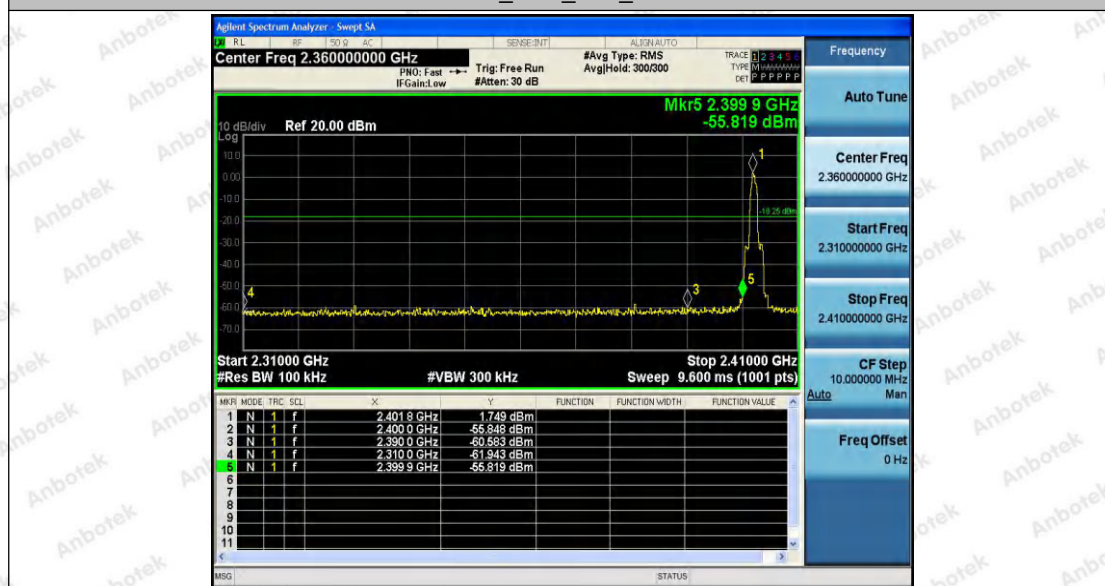
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



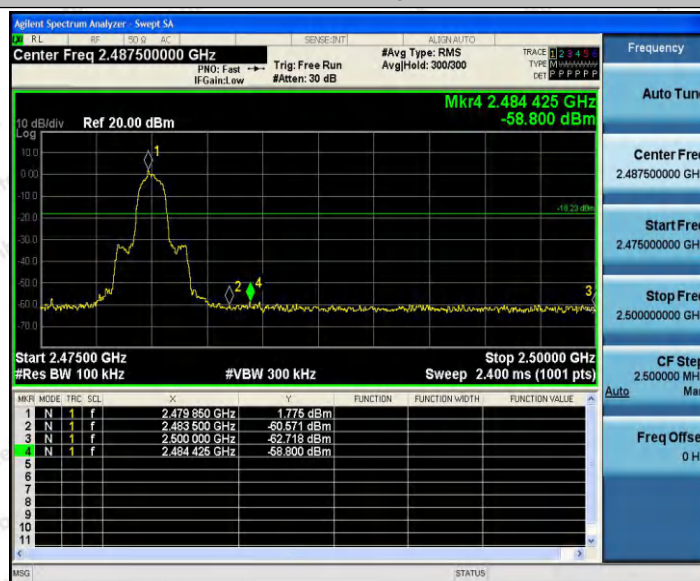
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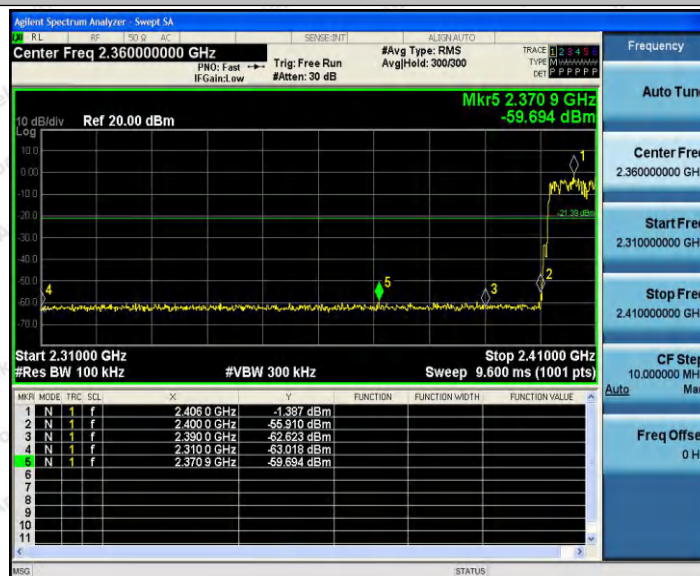
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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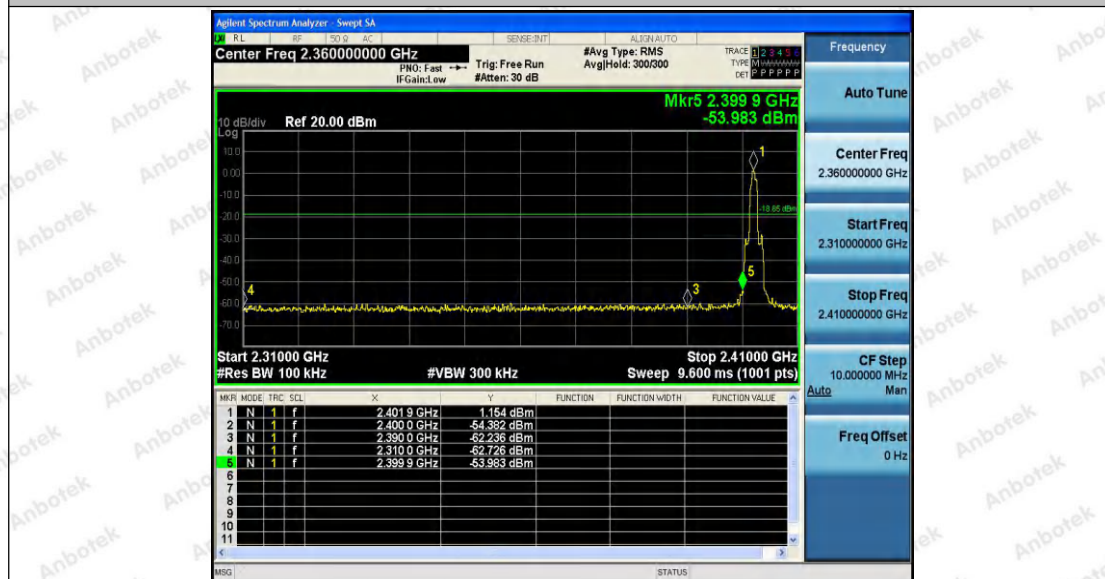
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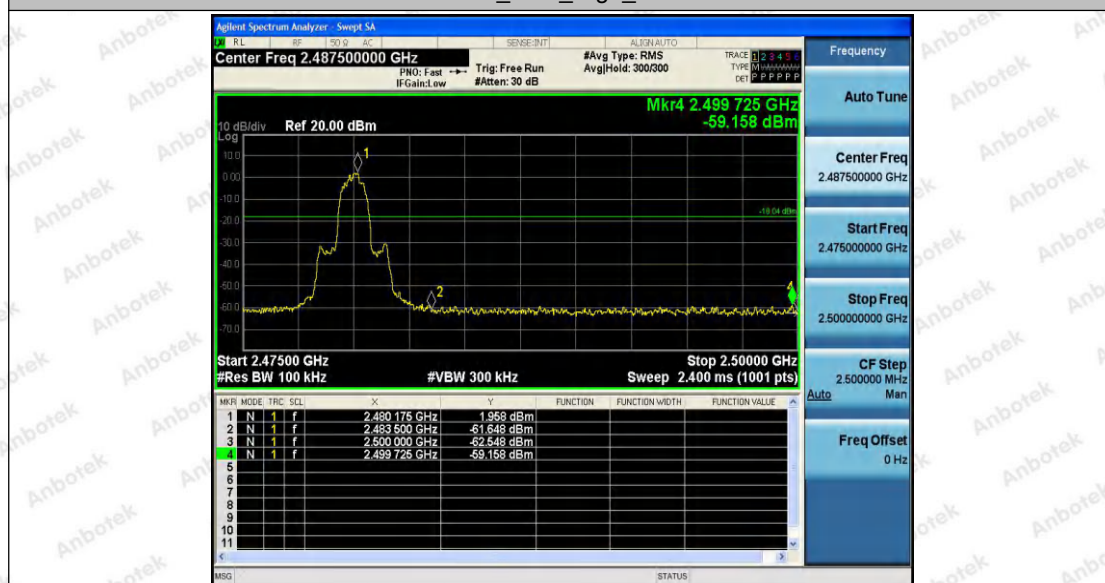
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



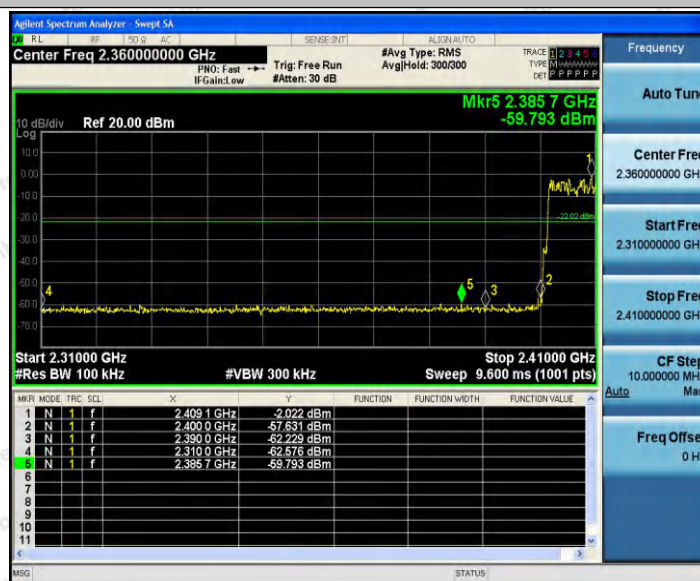
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

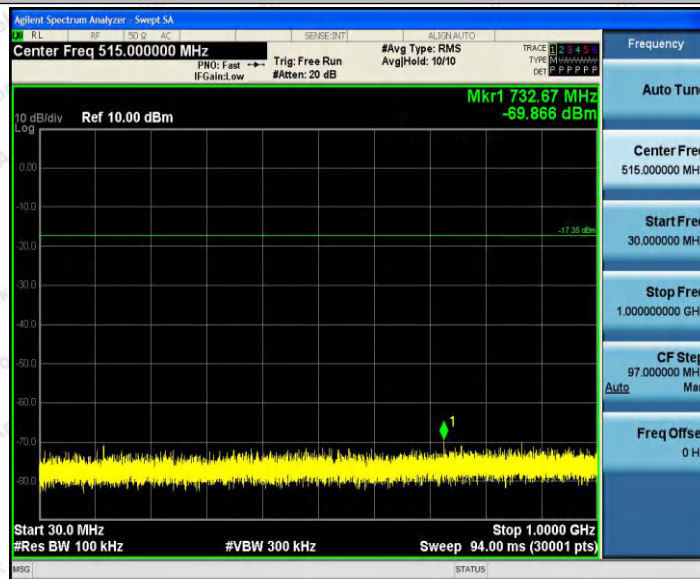
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-69.87	≤-17.35	PASS
			1000~26500	2.65	-55.82	≤-17.35	PASS
		2441	Reference	2.61	2.61	---	PASS
			30~1000	2.61	-70.11	≤-17.4	PASS
			1000~26500	2.61	-55.85	≤-17.4	PASS
		2480	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-70.27	≤-16.68	PASS
			1000~26500	3.32	-54.95	≤-16.68	PASS
2DH5	Ant1	2402	Reference	1.55	1.55	---	PASS
			30~1000	1.55	-70.84	≤-18.45	PASS
			1000~26500	1.55	-55.1	≤-18.45	PASS
		2441	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-69.86	≤-19.25	PASS
			1000~26500	0.75	-55.45	≤-19.25	PASS
		2480	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-69.83	≤-18.84	PASS
			1000~26500	1.16	-55.61	≤-18.84	PASS
3DH5	Ant1	2402	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-70.09	≤-18.44	PASS
			1000~26500	1.57	-54.4	≤-18.44	PASS
		2441	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-70.81	≤-18.57	PASS
			1000~26500	1.43	-55.3	≤-18.57	PASS
		2480	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-70.13	≤-18.42	PASS
			1000~26500	1.58	-55.25	≤-18.42	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

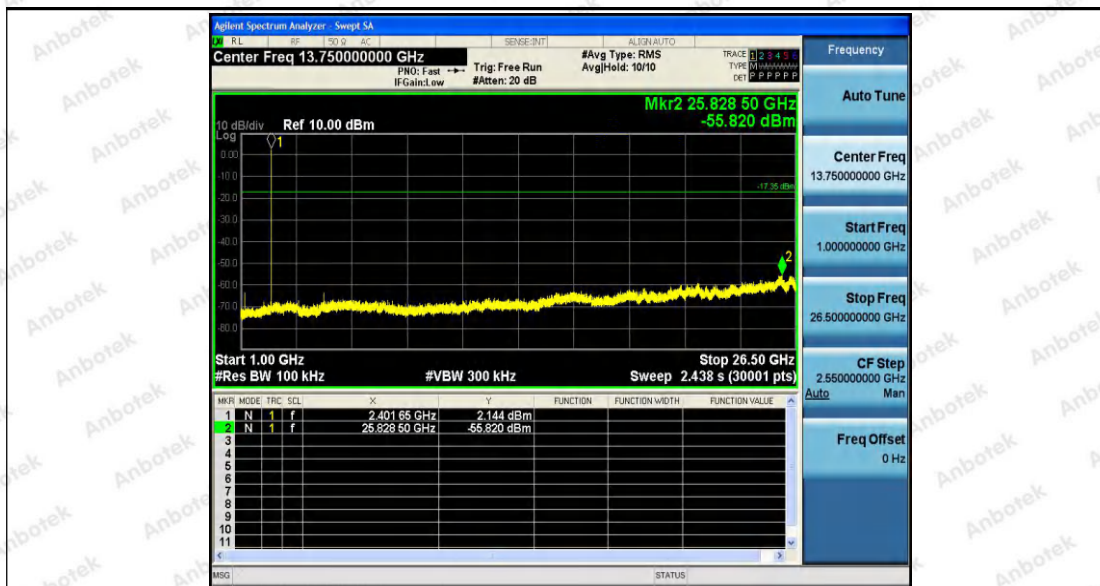
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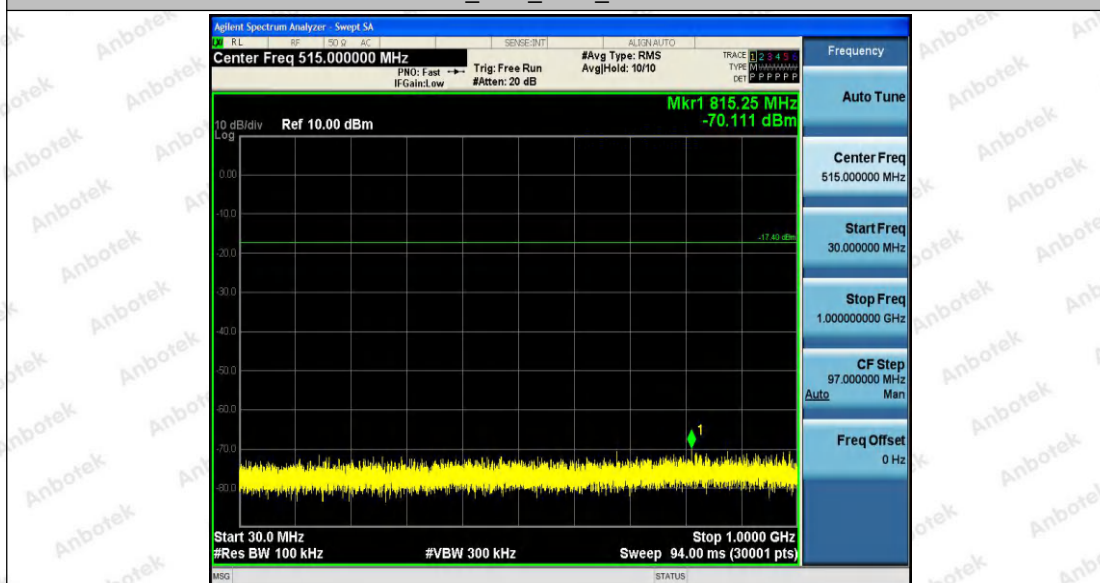
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



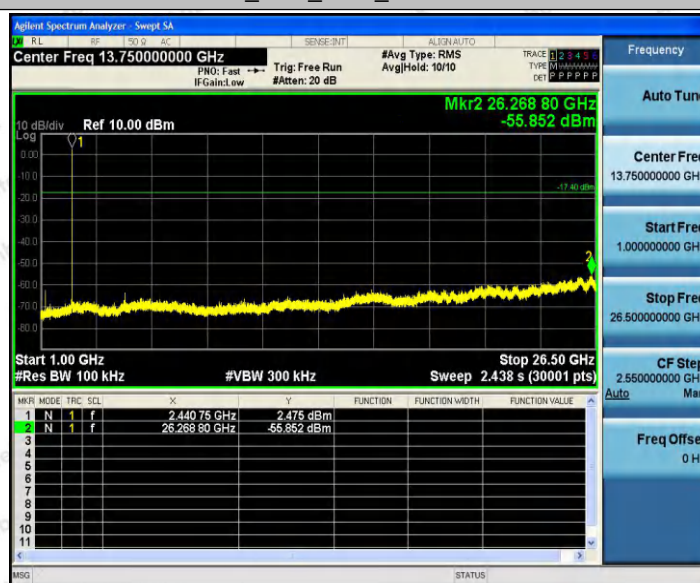
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



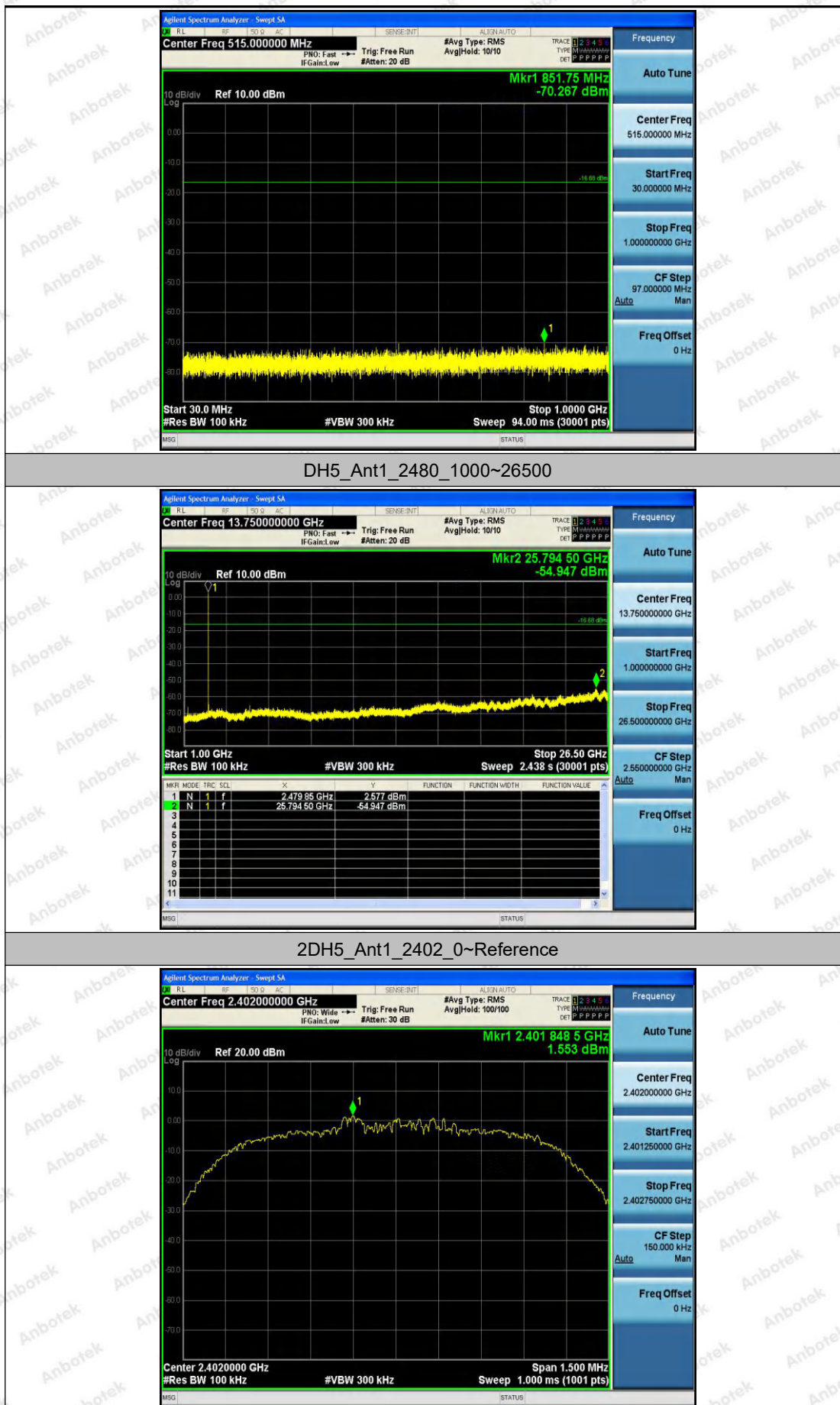
DH5_Ant1_2480_30~1000

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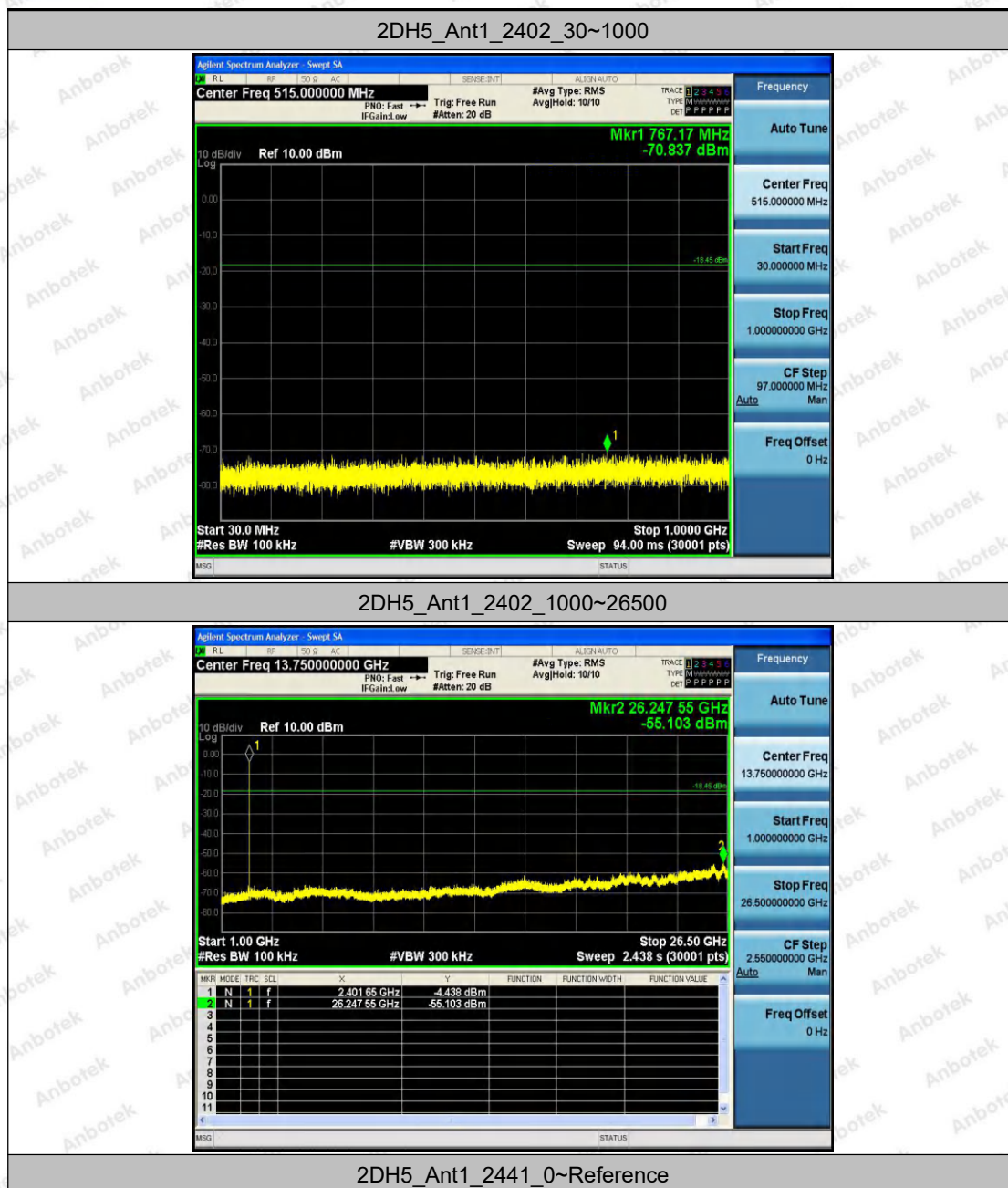


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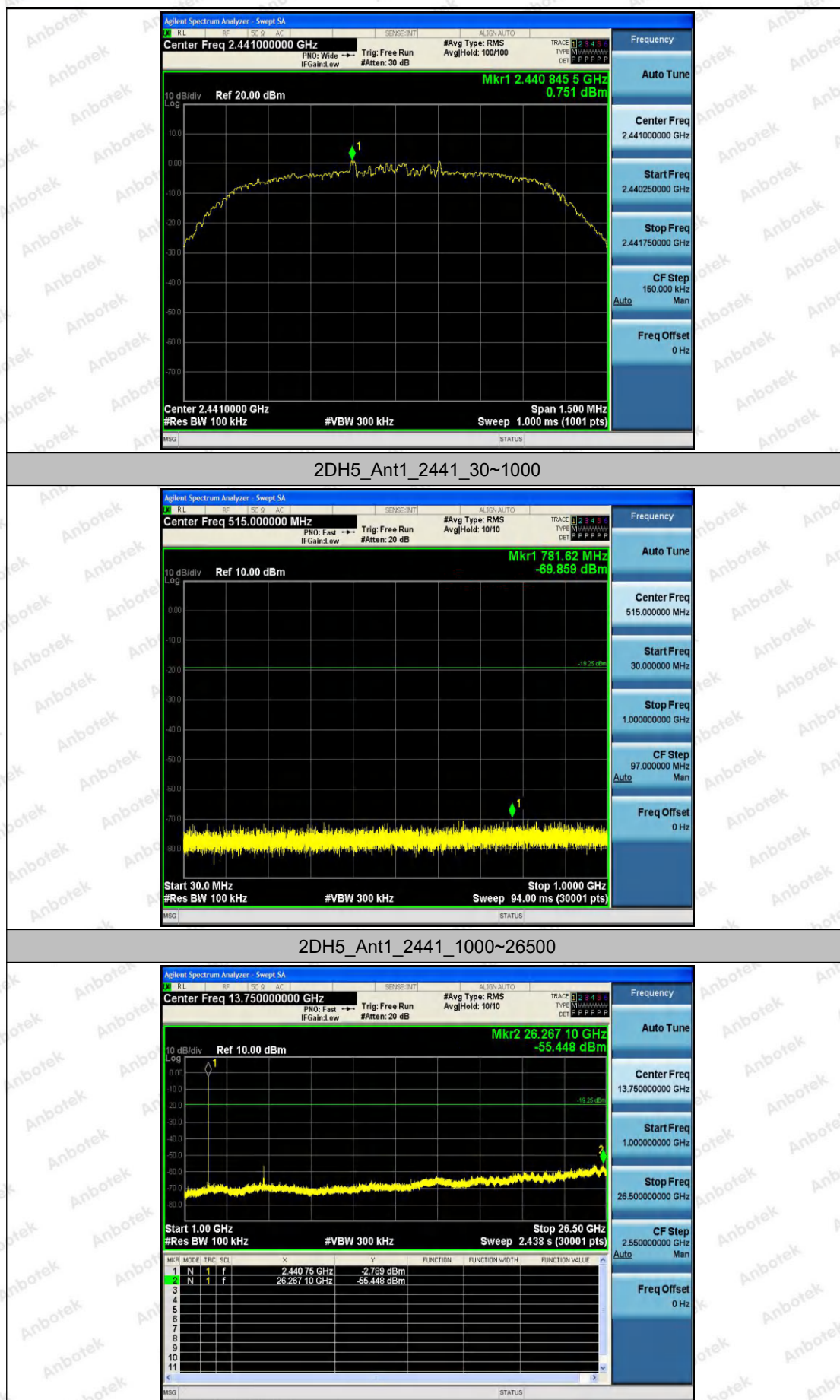


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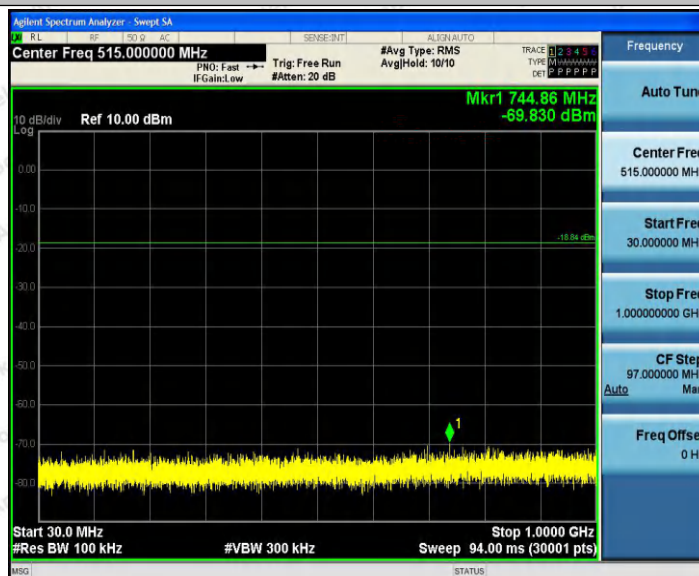
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



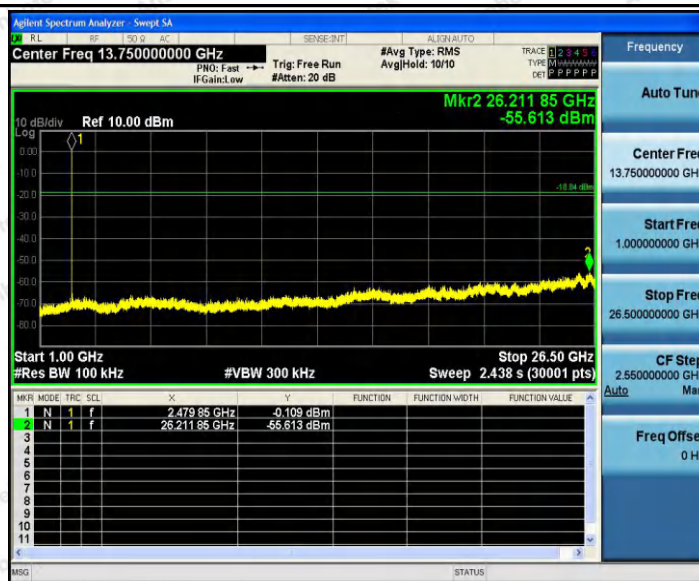
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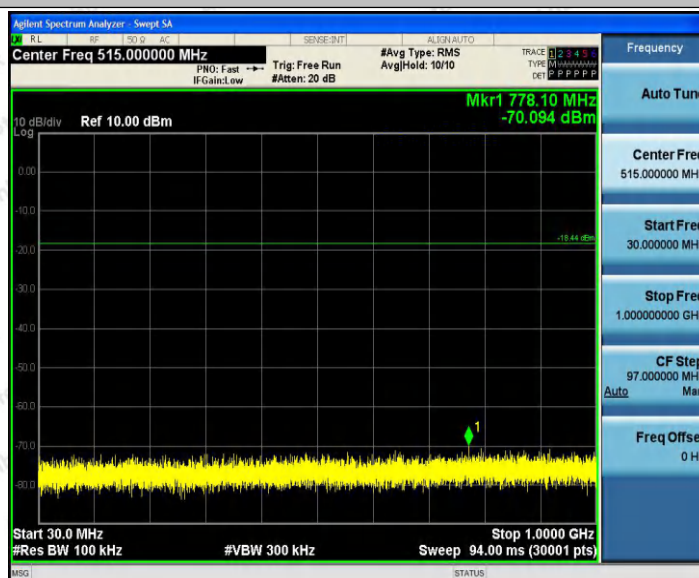
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3DH5 Ant1 2402 0~Reference



3DH5 Ant1 2402 30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



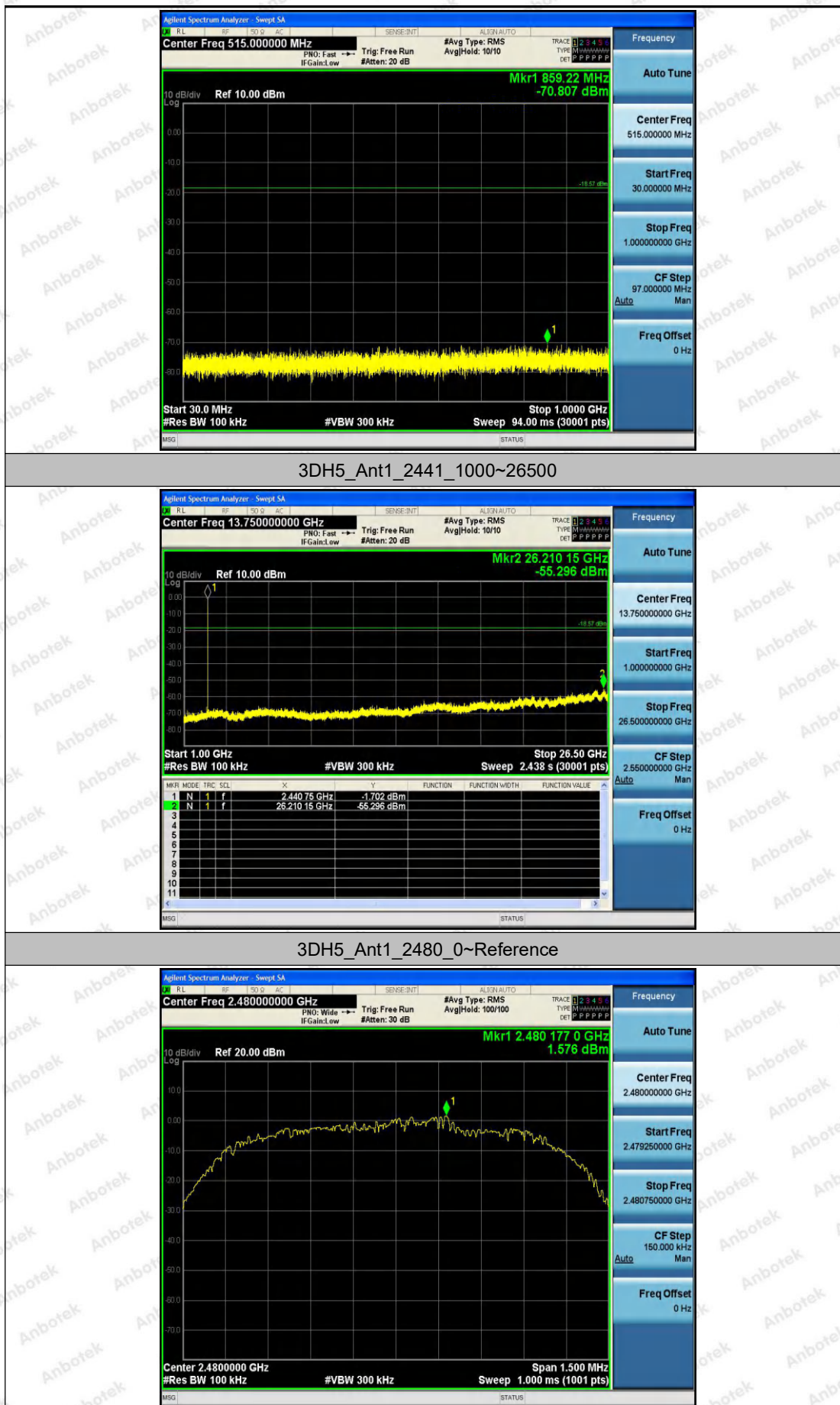
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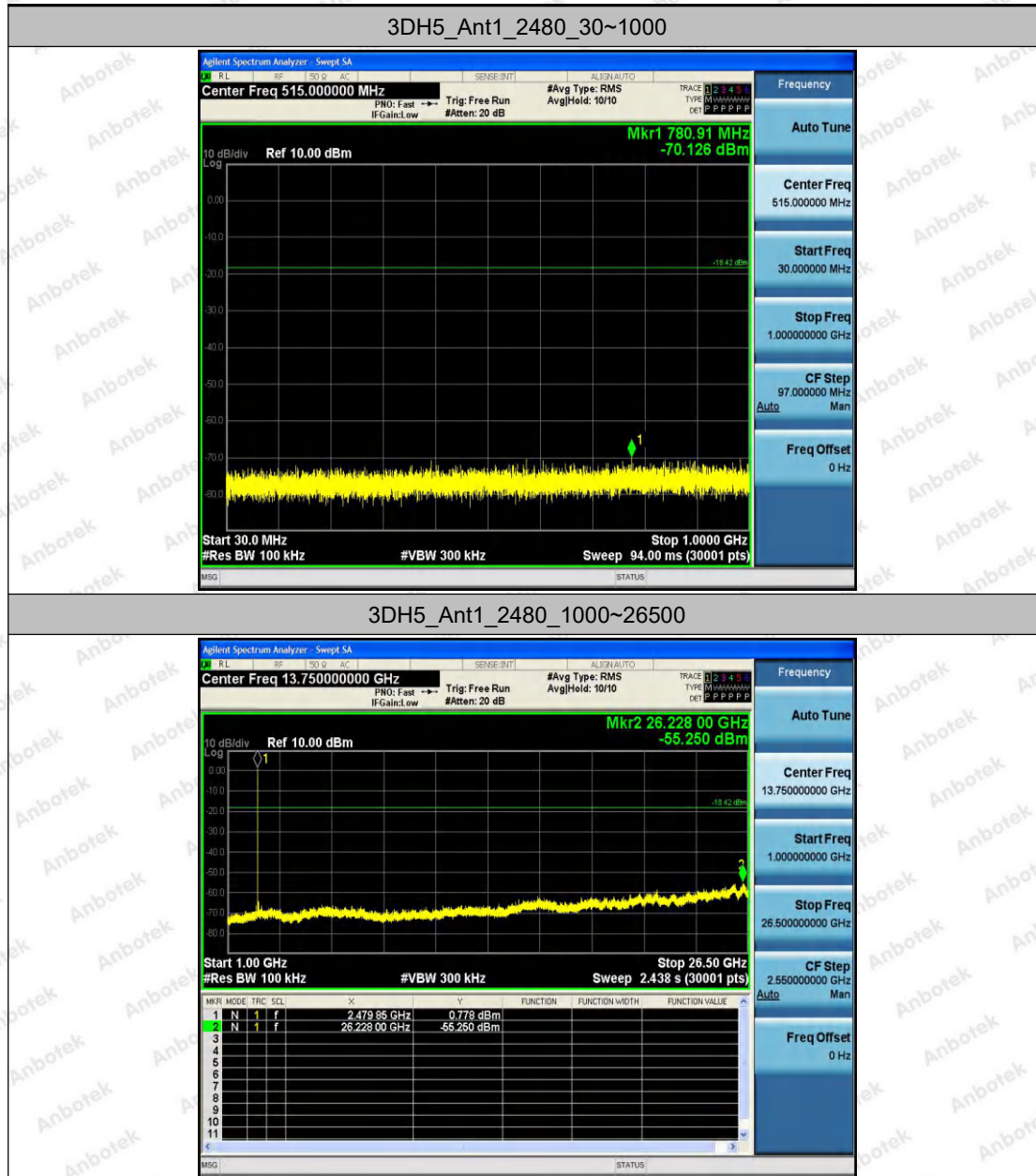


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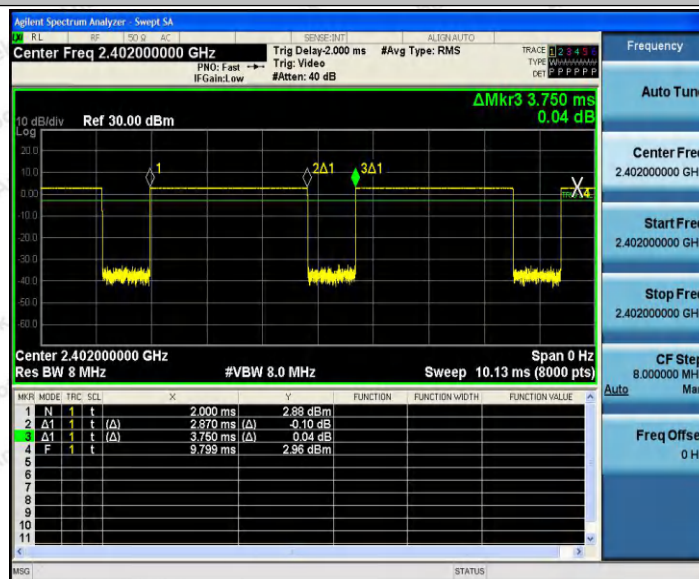
Appendix I: Duty Cycle

Test Result

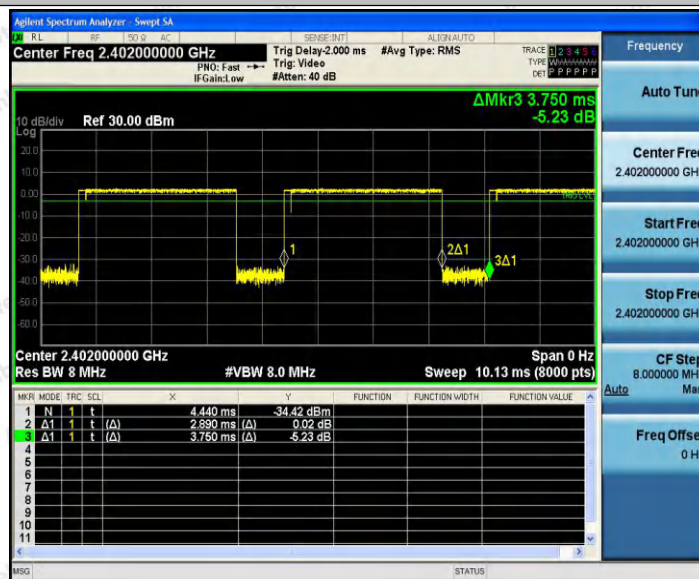
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



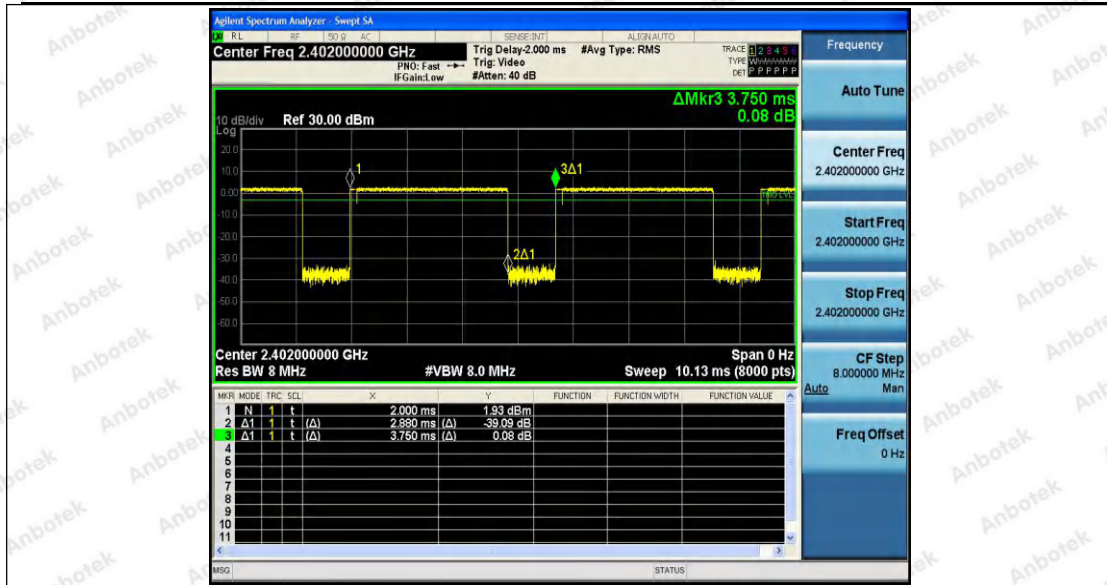
3DH5_Ant1_2402

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