

Appendix Test Data

Report No.:	18220WC20050401	Test Sample No.:	1-2-2
Start Test Date:	2022.3.21	Finish Test Date:	2022.4.12
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6C°	Relative Humidity:	54.9 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.541	2402.483	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.939	2479.538	2480.477	---	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.278	2479.361	2480.639	---	PASS
3DH5	Ant1	2402	1.317	2401.343	2402.660	---	PASS
		2441	1.278	2440.349	2441.627	---	PASS
		2480	1.329	2479.331	2480.660	---	PASS

Test Graphs

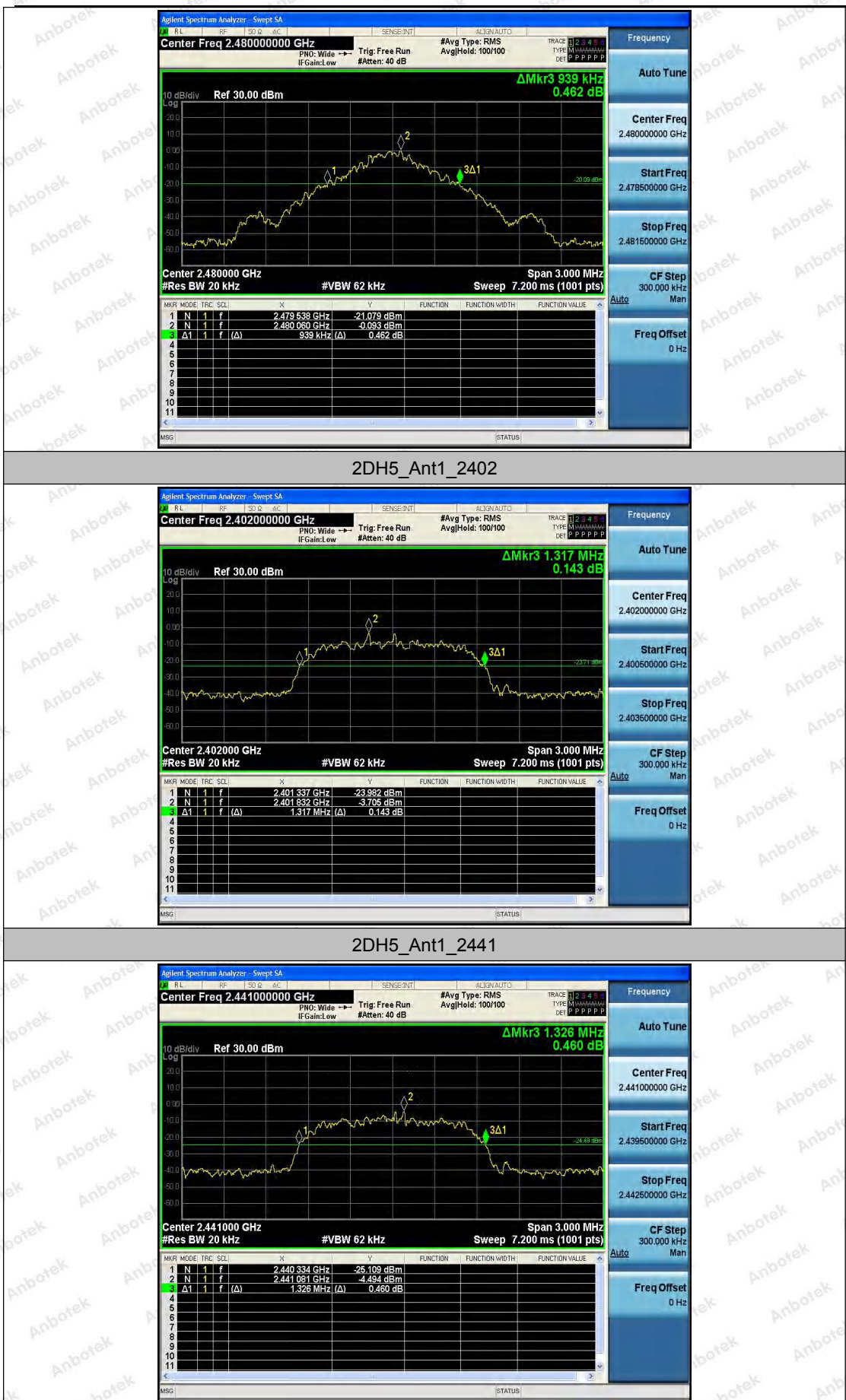


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88988	2401.557	2402.446	---	PASS
		2441	0.89270	2440.555	2441.448	---	PASS
		2480	0.88876	2479.556	2480.445	---	PASS
2DH5	Ant1	2402	1.1964	2401.402	2402.599	---	PASS
		2441	1.1916	2440.403	2441.595	---	PASS
		2480	1.1854	2479.406	2480.592	---	PASS
3DH5	Ant1	2402	1.2108	2401.385	2402.596	---	PASS
		2441	1.2027	2440.392	2441.595	---	PASS
		2480	1.2018	2479.392	2480.594	---	PASS

Test Graphs

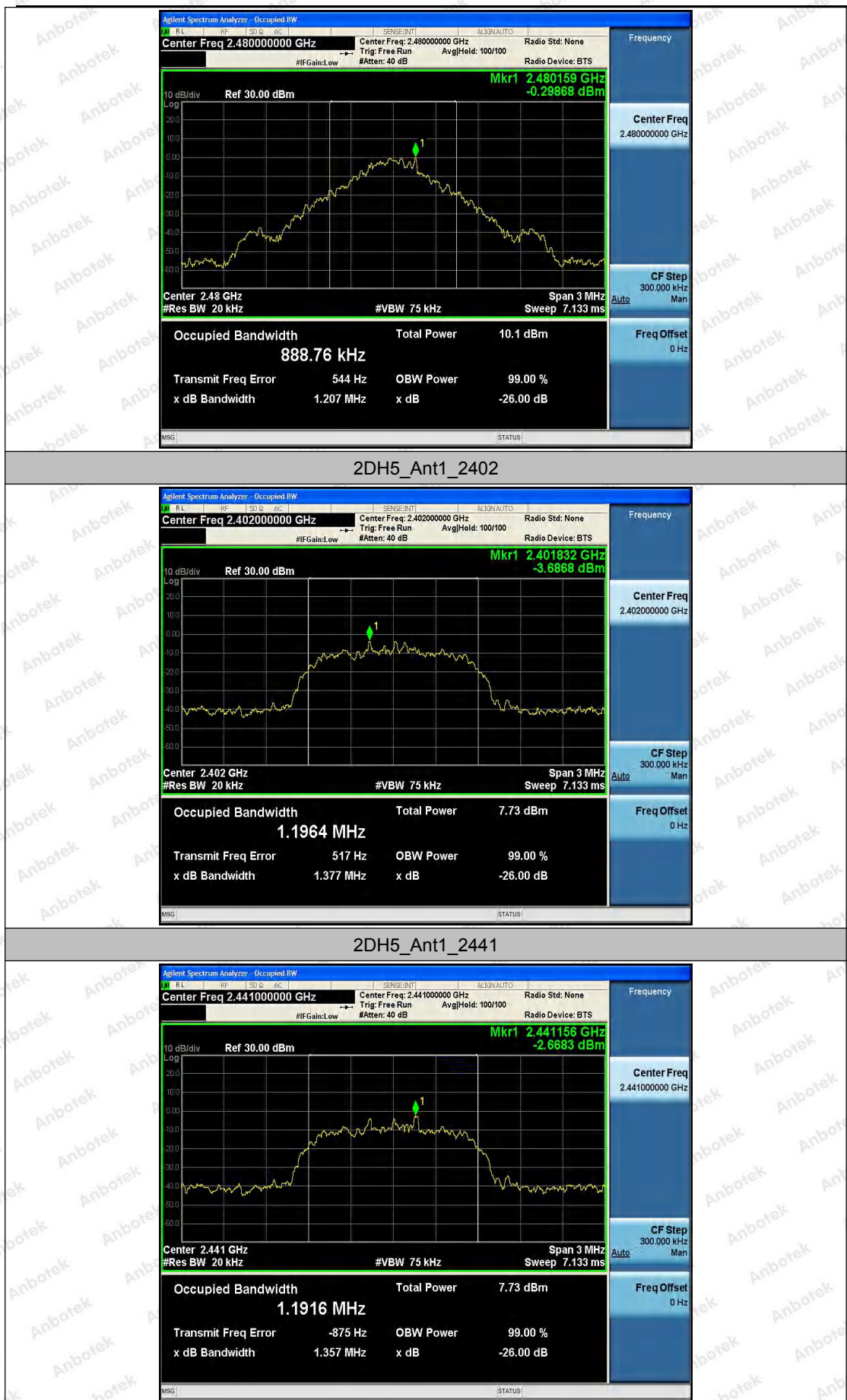


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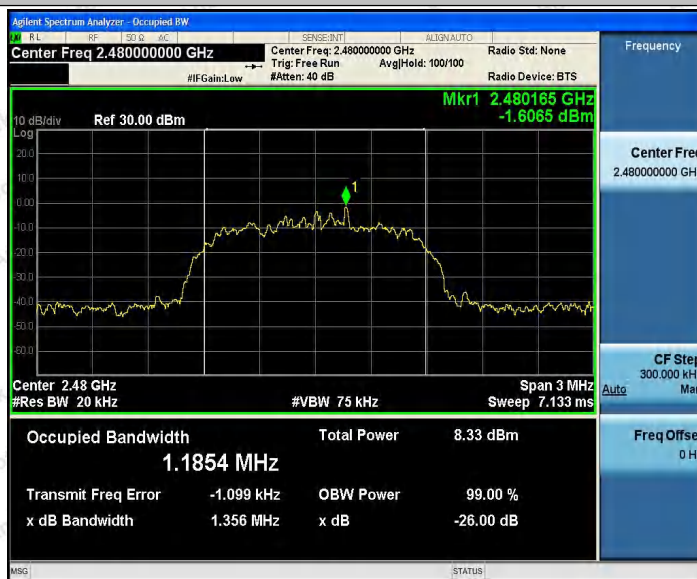
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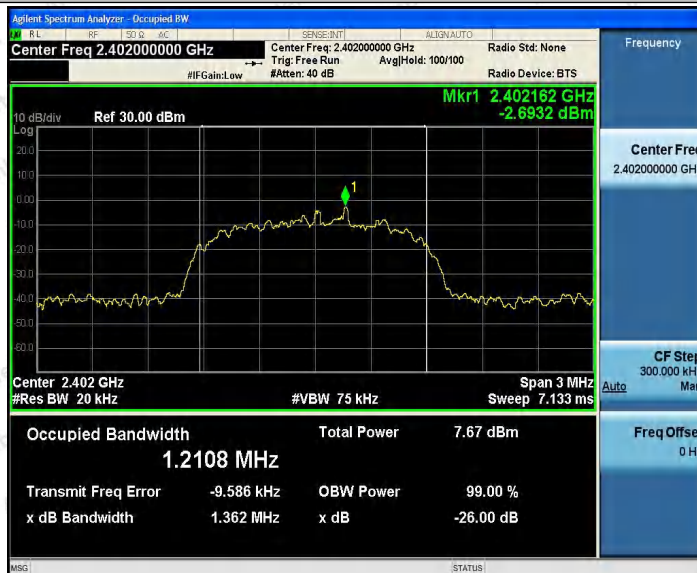
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2DH5_Ant1_2480



3DH5_Ant1_2402



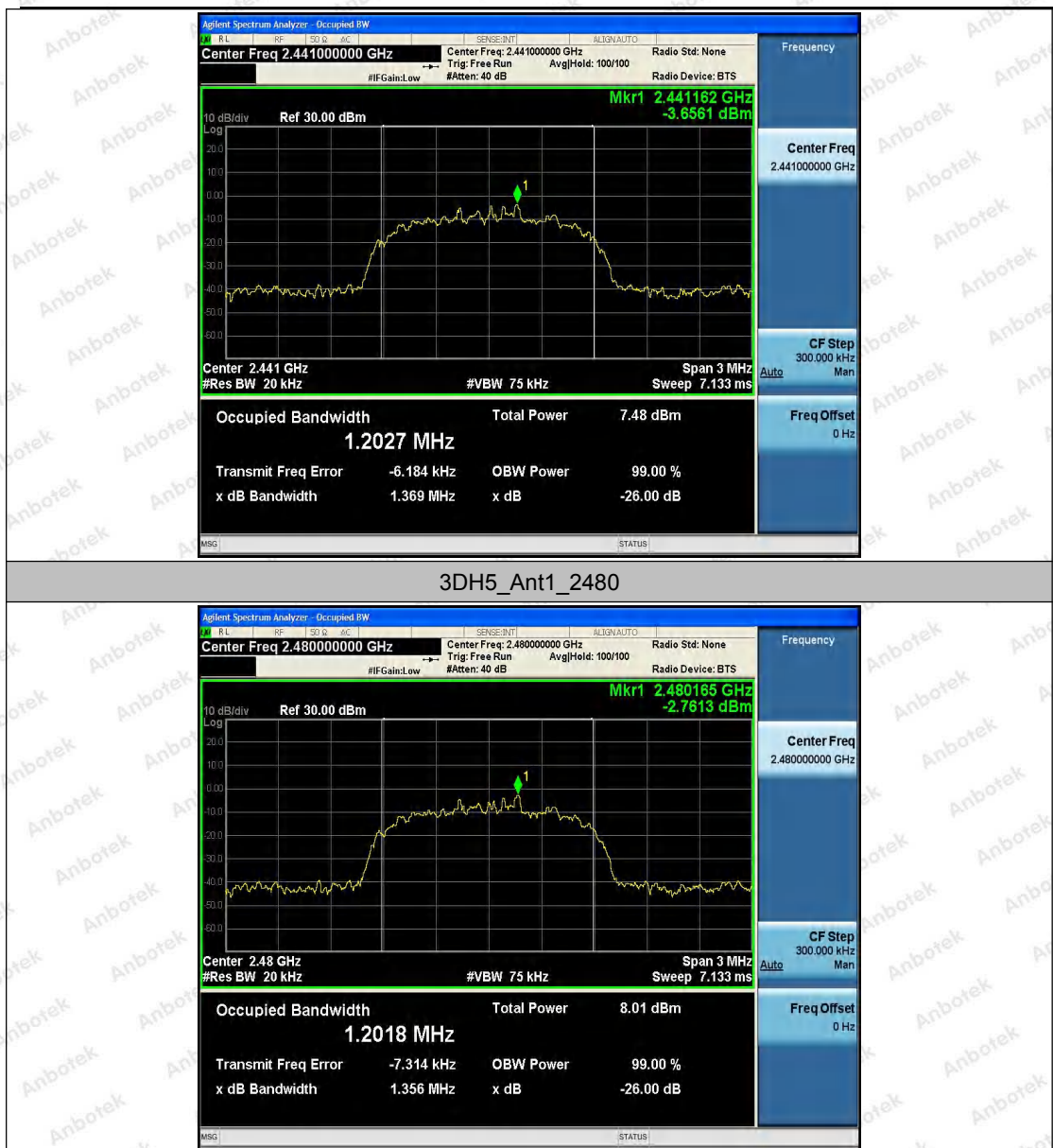
3DH5_Ant1_2441

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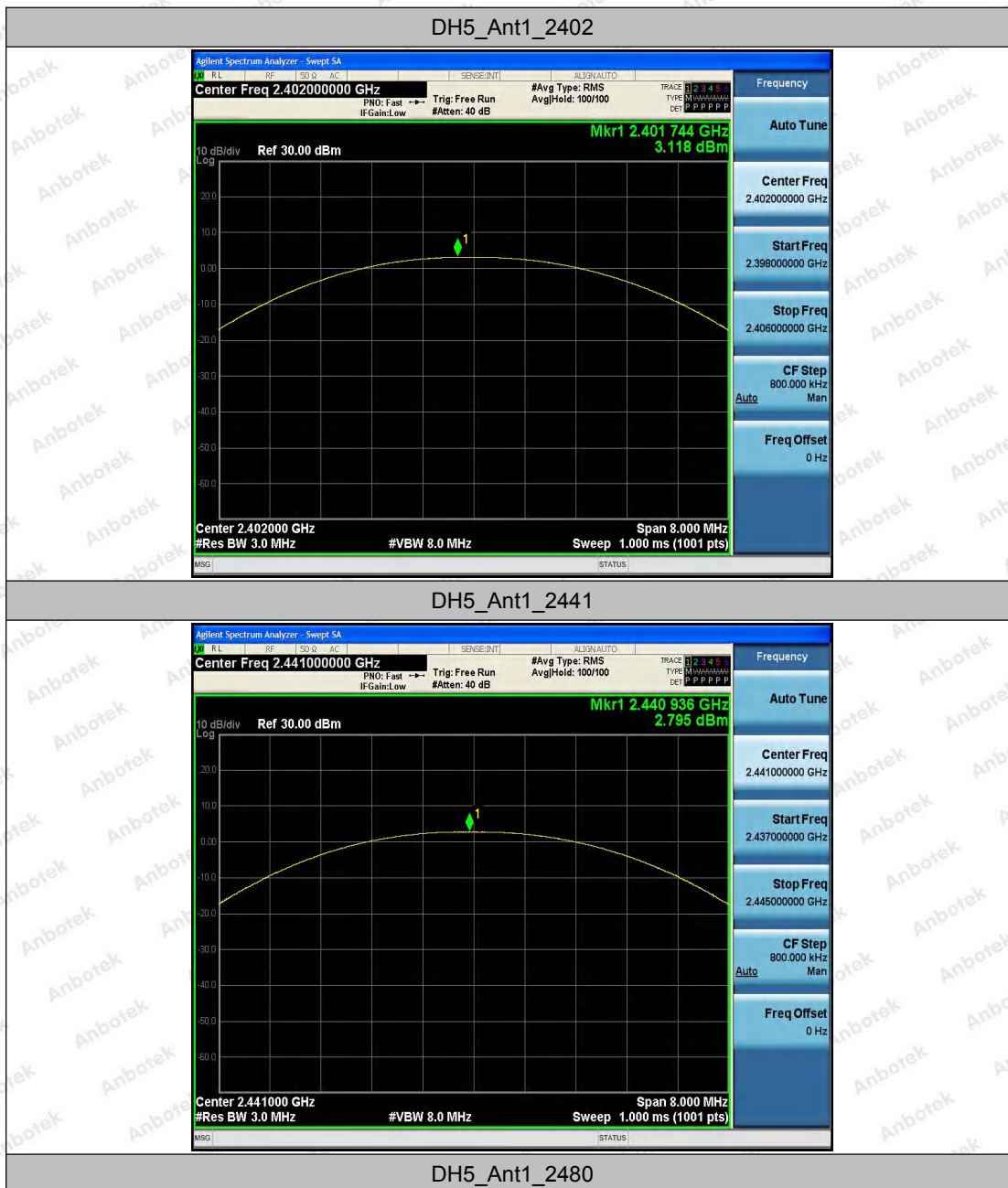
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.12	≤20.97	PASS
		2441	2.8	≤20.97	PASS
		2480	3.5	≤20.97	PASS
2DH5	Ant1	2402	2.41	≤20.97	PASS
		2441	2.16	≤20.97	PASS
		2480	2.78	≤20.97	PASS
3DH5	Ant1	2402	2.54	≤20.97	PASS
		2441	2.32	≤20.97	PASS
		2480	2.89	≤20.97	PASS

Test Graphs

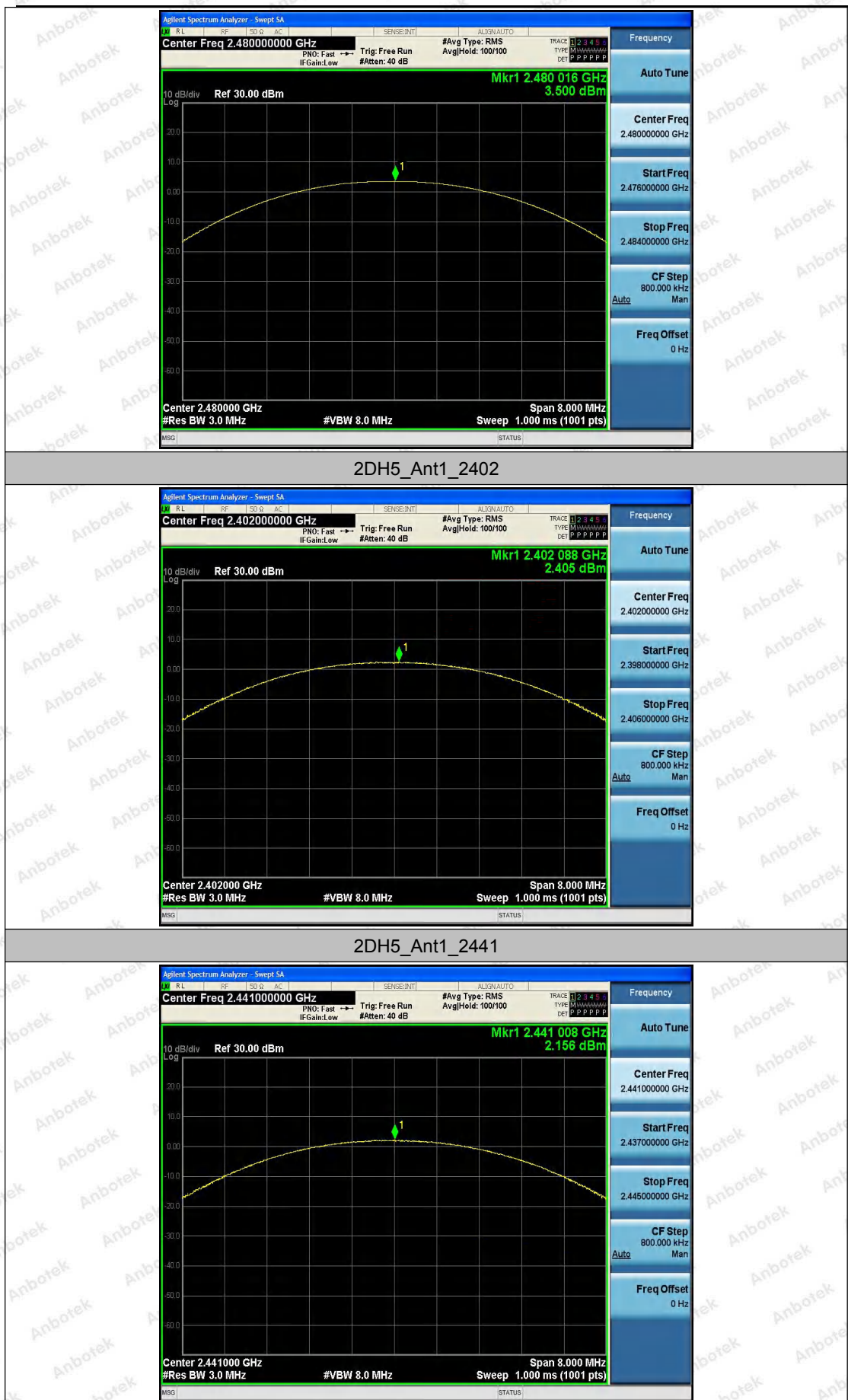


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.728	≥ 0.630	PASS
2DH5	Ant1	Hop	0.988	≥ 0.884	PASS
3DH5	Ant1	Hop	0.998	≥ 0.886	PASS

Test Graphs





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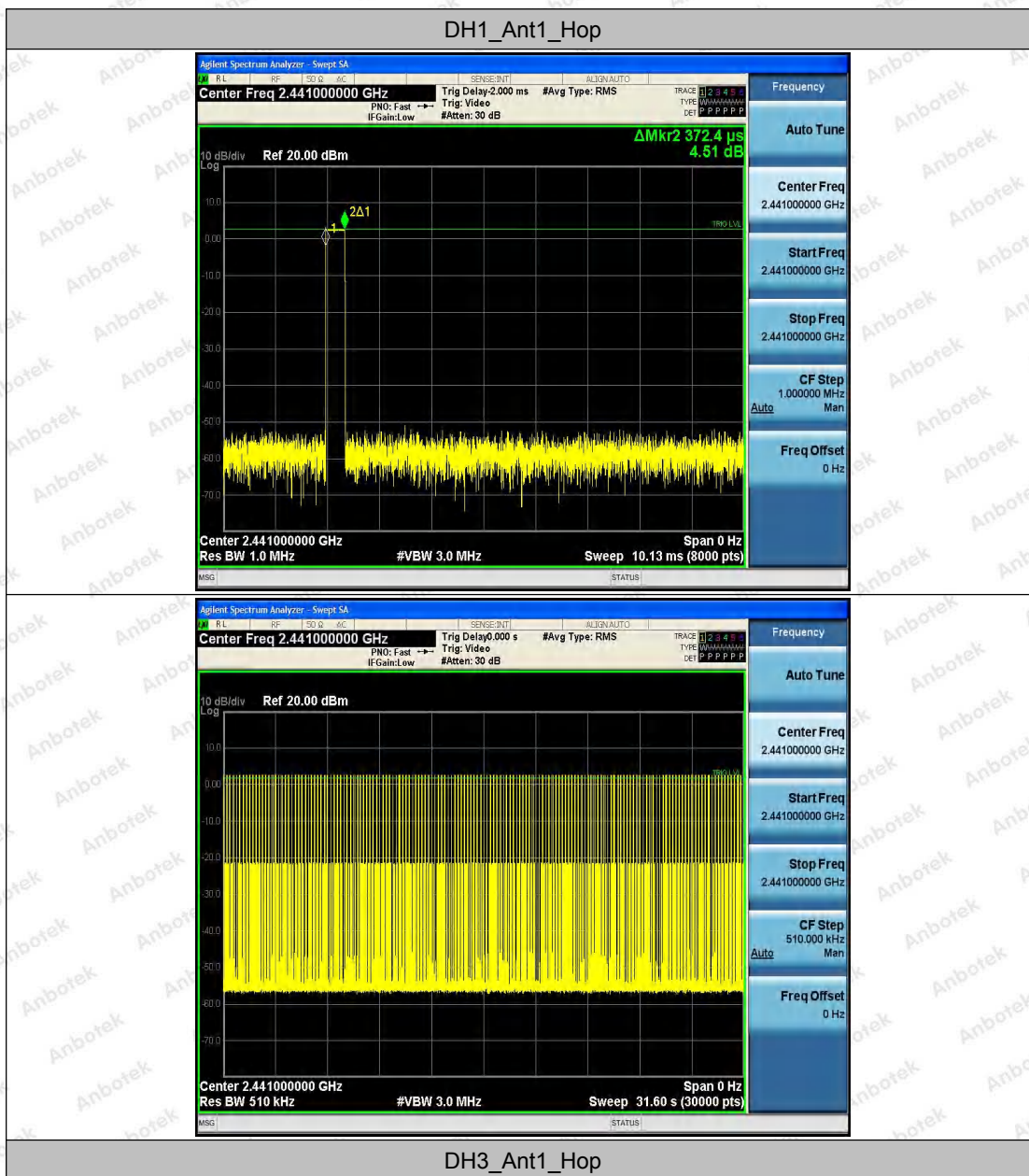
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.254	≤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	97	0.279	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS

Test Graphs



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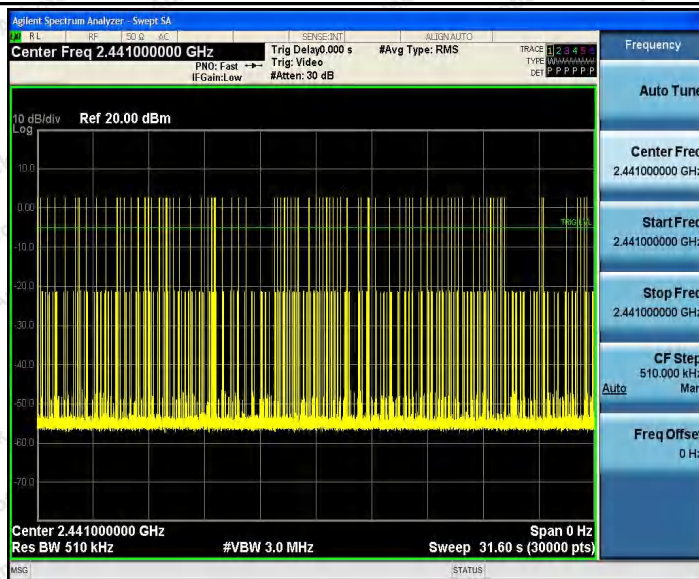
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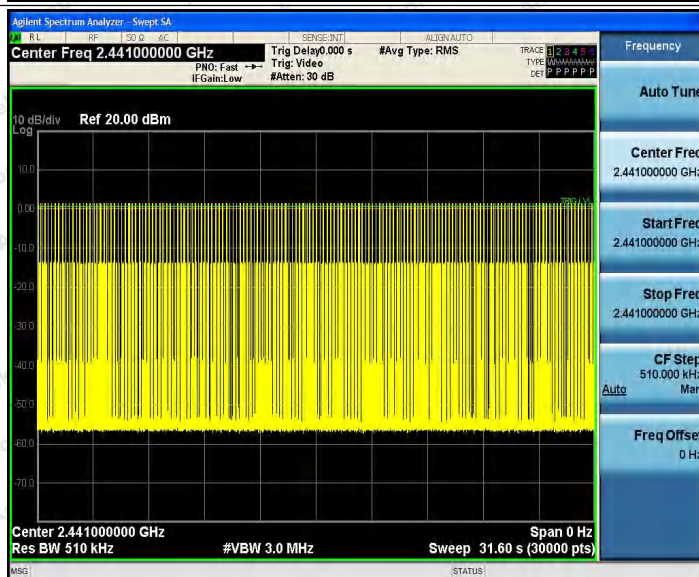
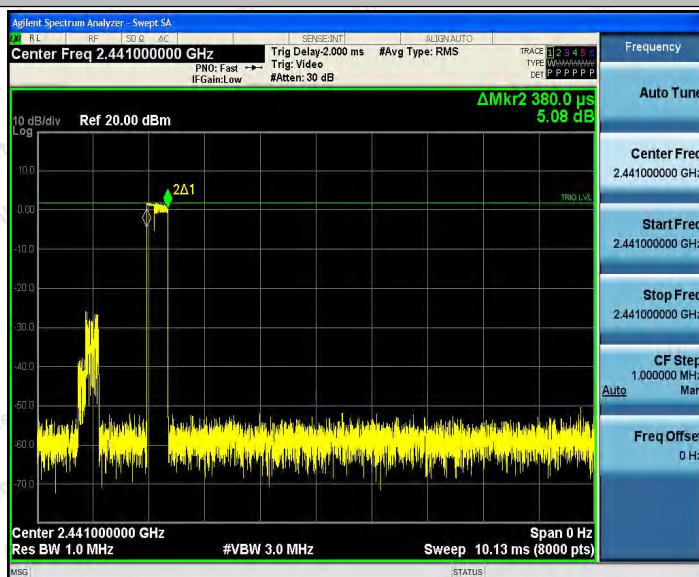
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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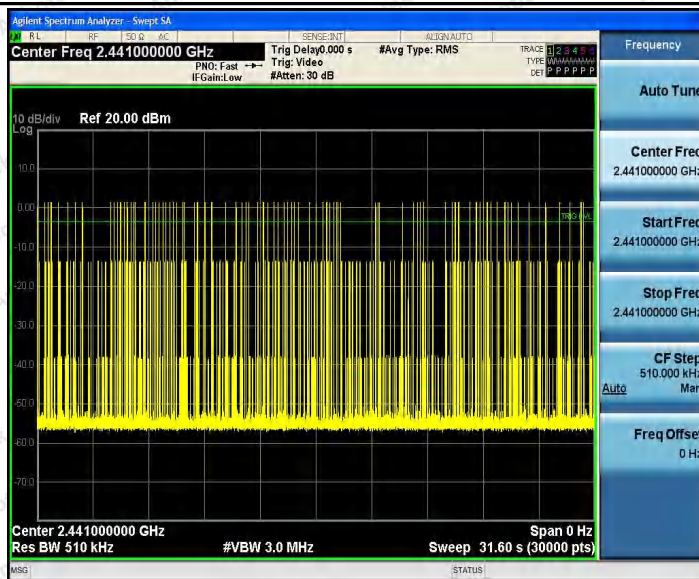


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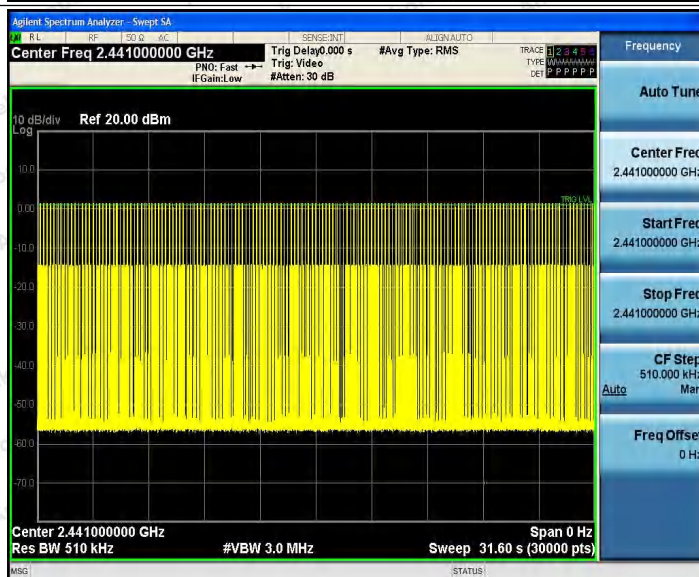
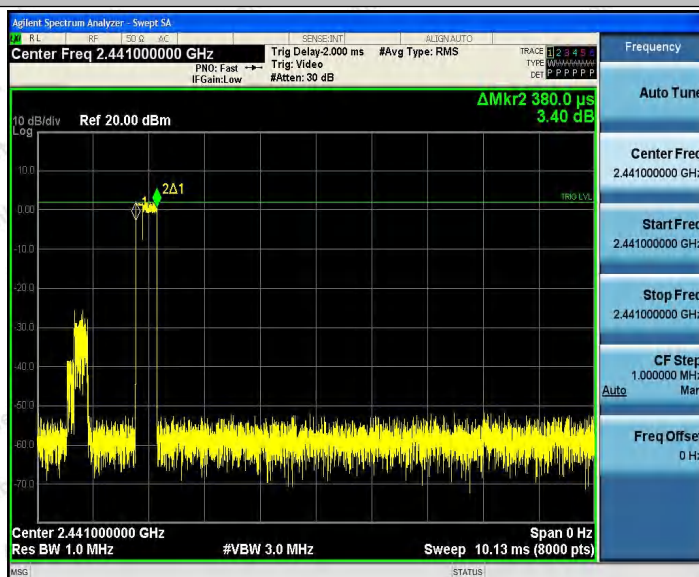
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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3DH5_Ant1_Hop



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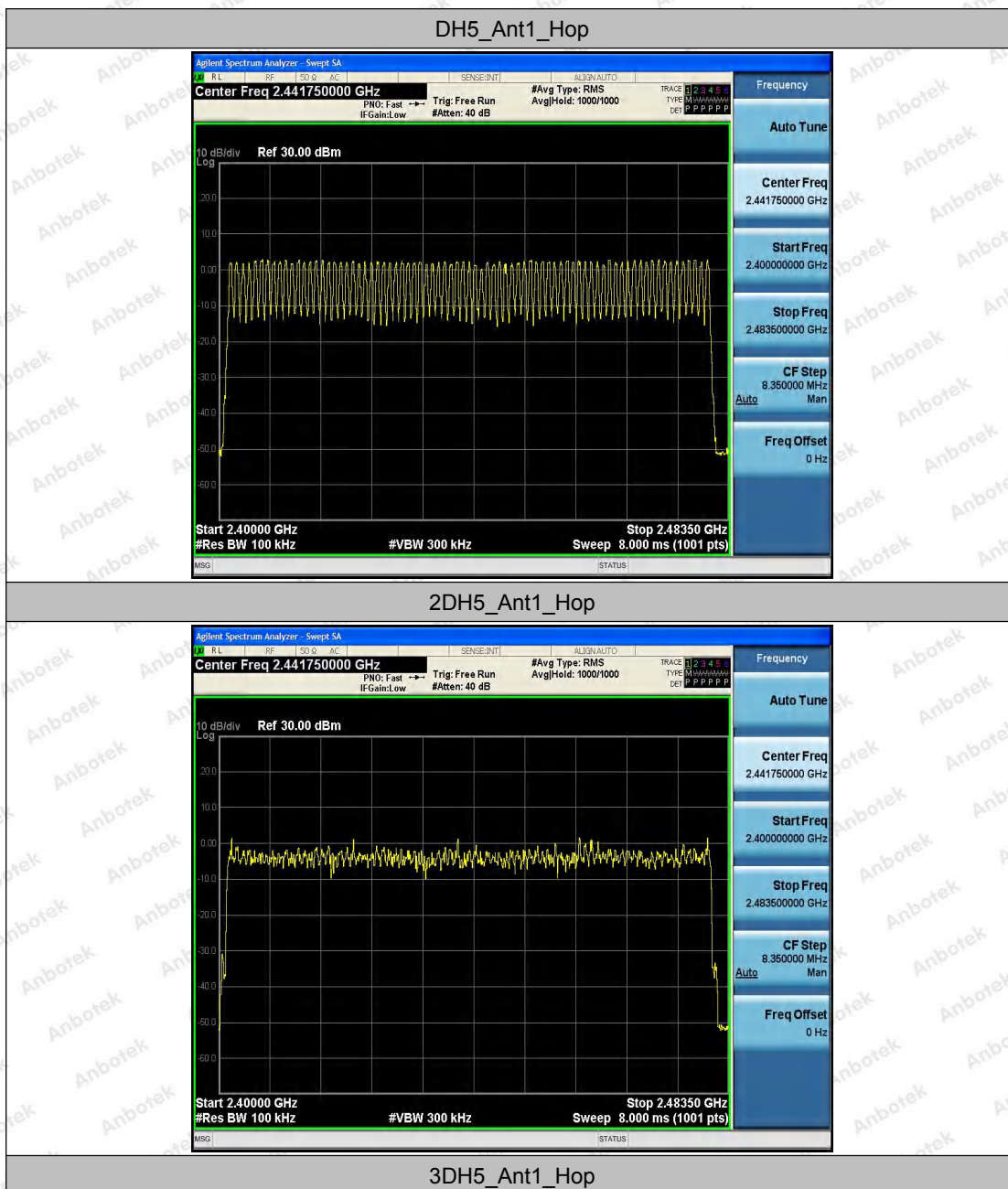
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Appendix F: Number of hopping channels

Test Result

Test Mode	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

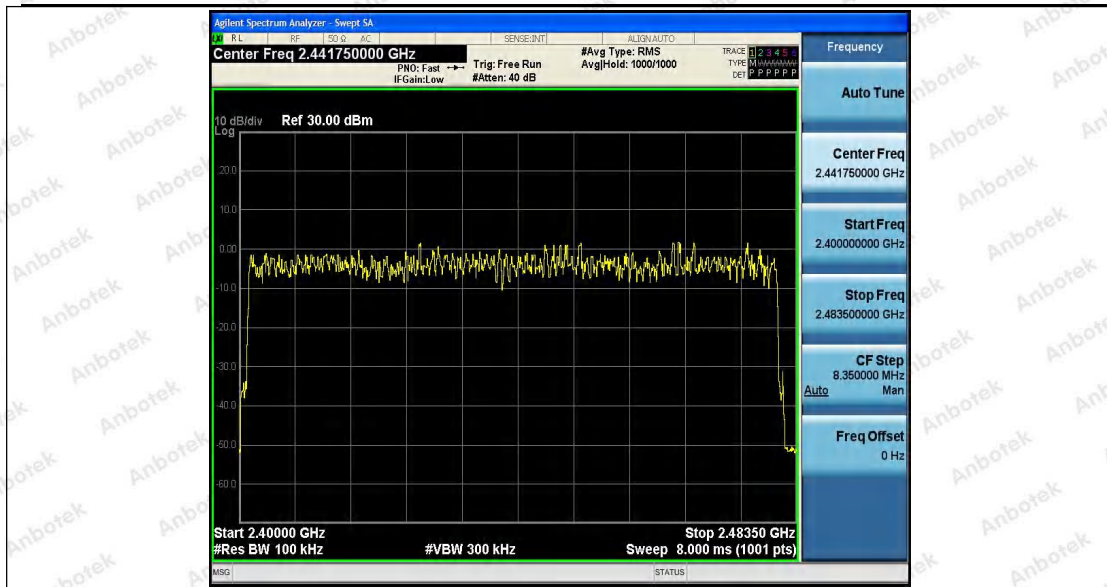


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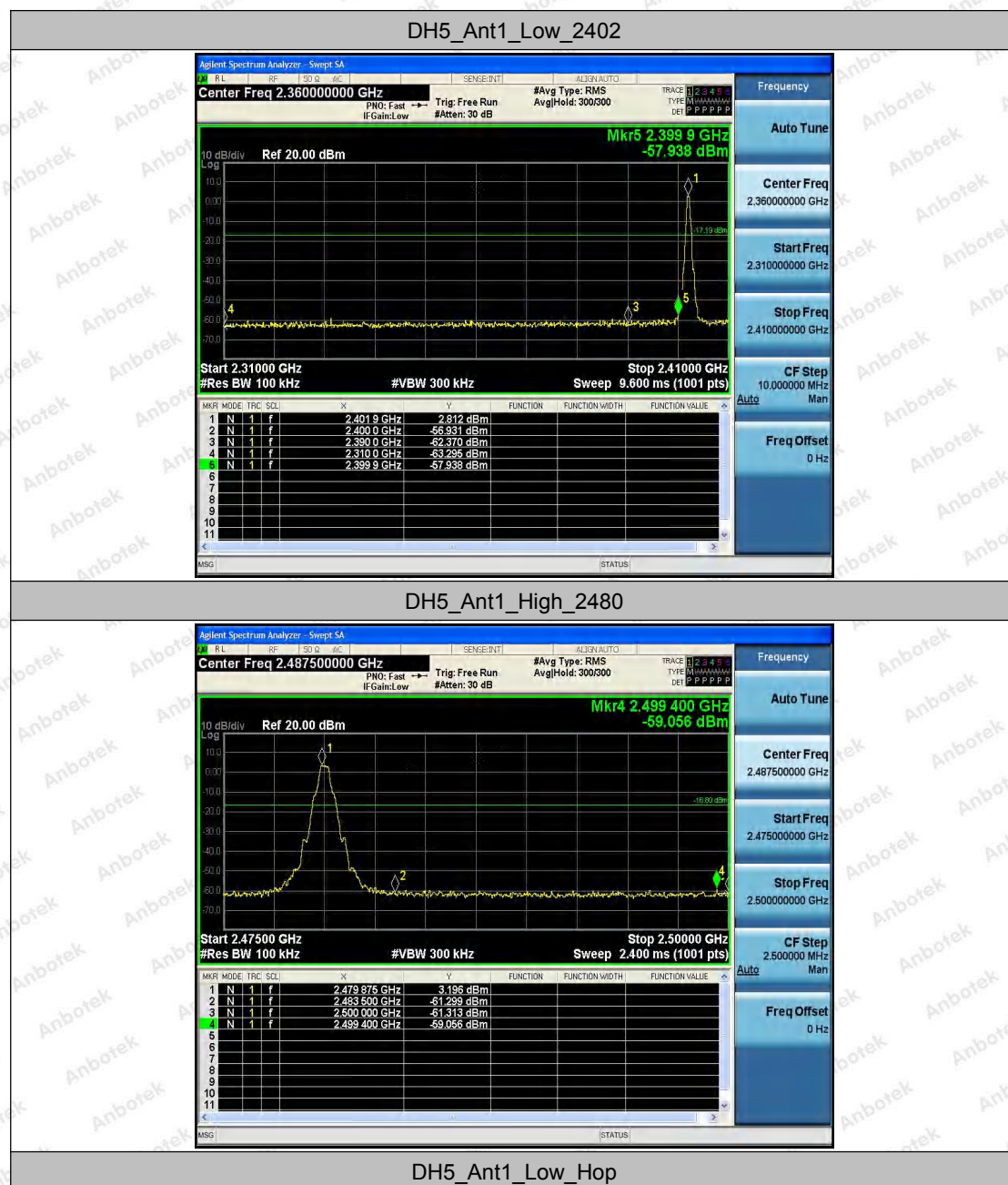
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.81	-57.94	≤ -17.19	PASS
		High	2480	3.20	-59.06	≤ -16.8	PASS
		Low	Hop	2.23	-59.37	≤ -17.77	PASS
		High	Hop	2.67	-62.13	≤ -17.33	PASS
2DH5	Ant1	Low	2402	1.64	-53.57	≤ -18.36	PASS
		High	2480	1.68	-59.05	≤ -18.32	PASS
		Low	Hop	-1.51	-59.38	≤ -21.51	PASS
		High	Hop	0.55	-61.85	≤ -19.45	PASS
3DH5	Ant1	Low	2402	1.73	-54.6	≤ -18.28	PASS
		High	2480	2.08	-59.58	≤ -17.92	PASS
		Low	Hop	1.55	-58.74	≤ -18.45	PASS
		High	Hop	-1.73	-61.21	≤ -21.73	PASS

Test Graphs

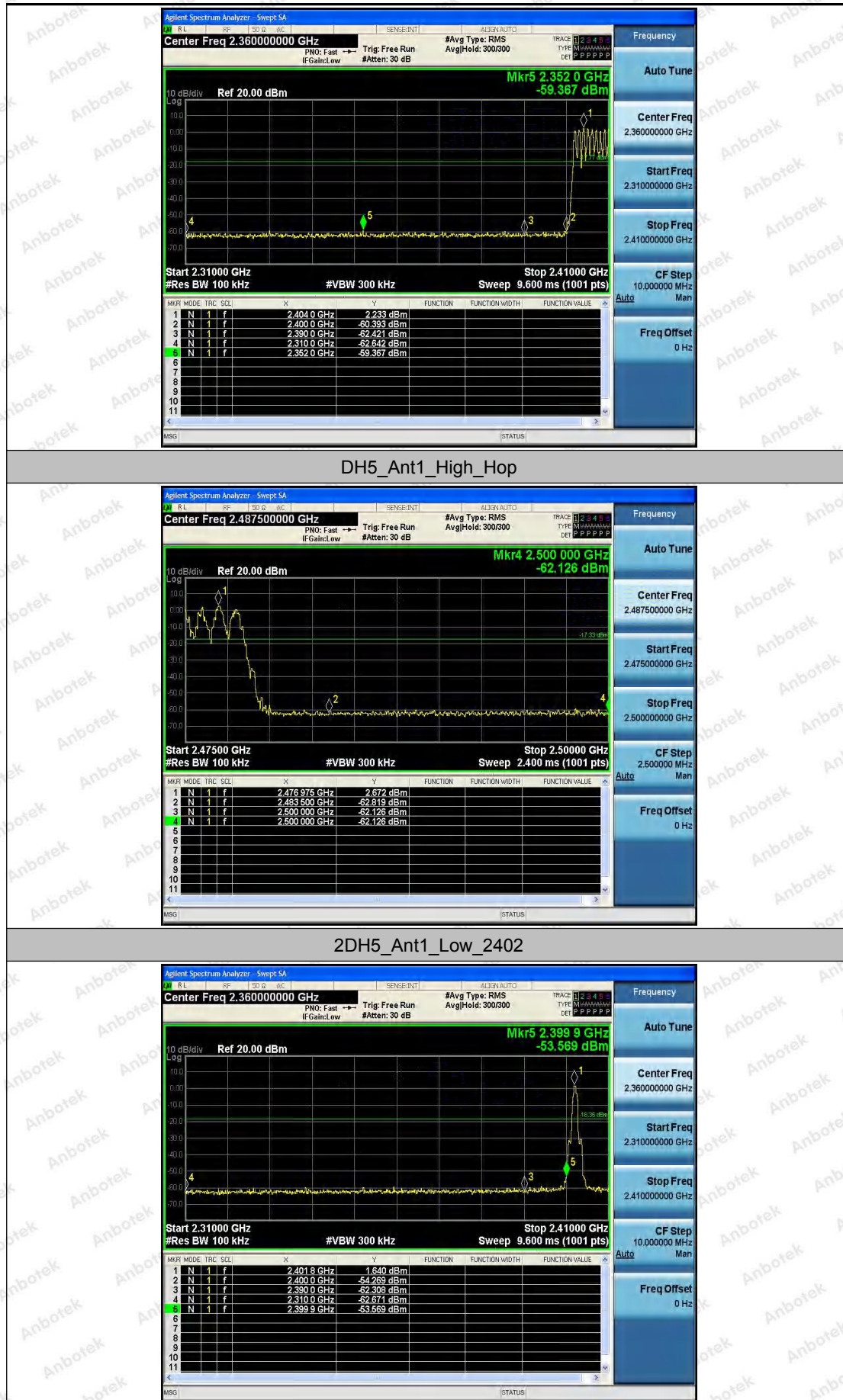


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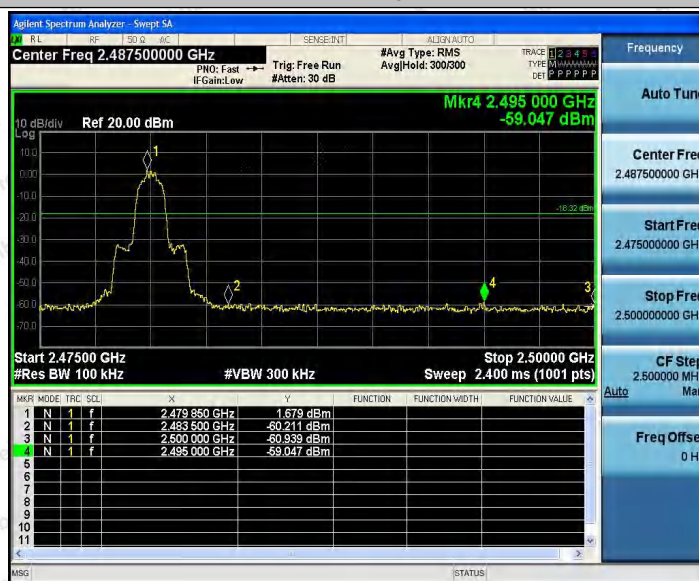
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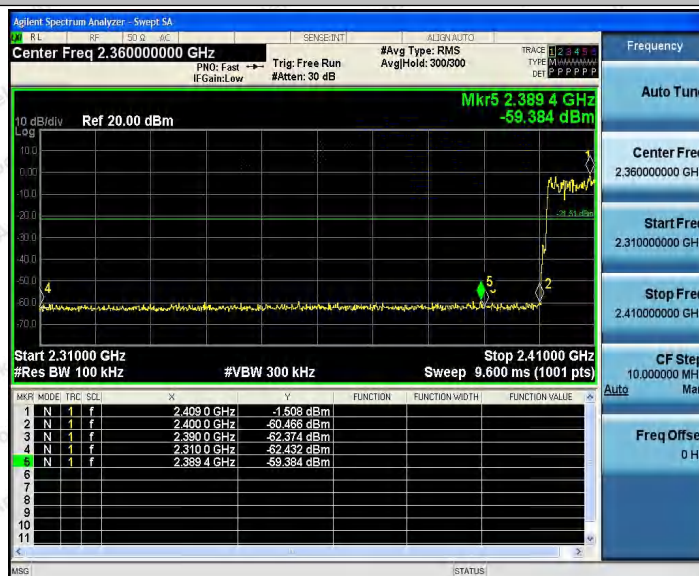
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



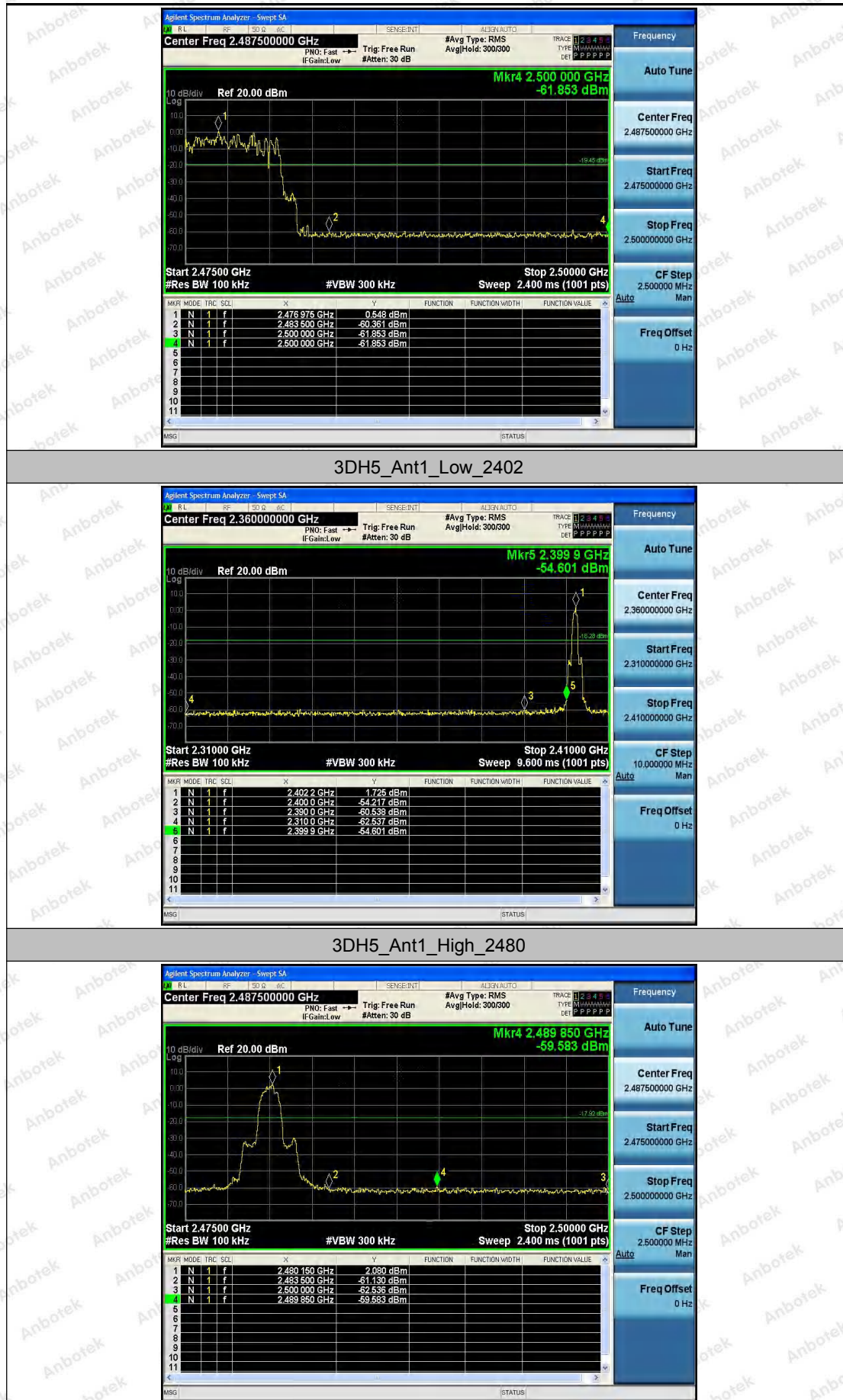
2DH5_Ant1_High_Hop

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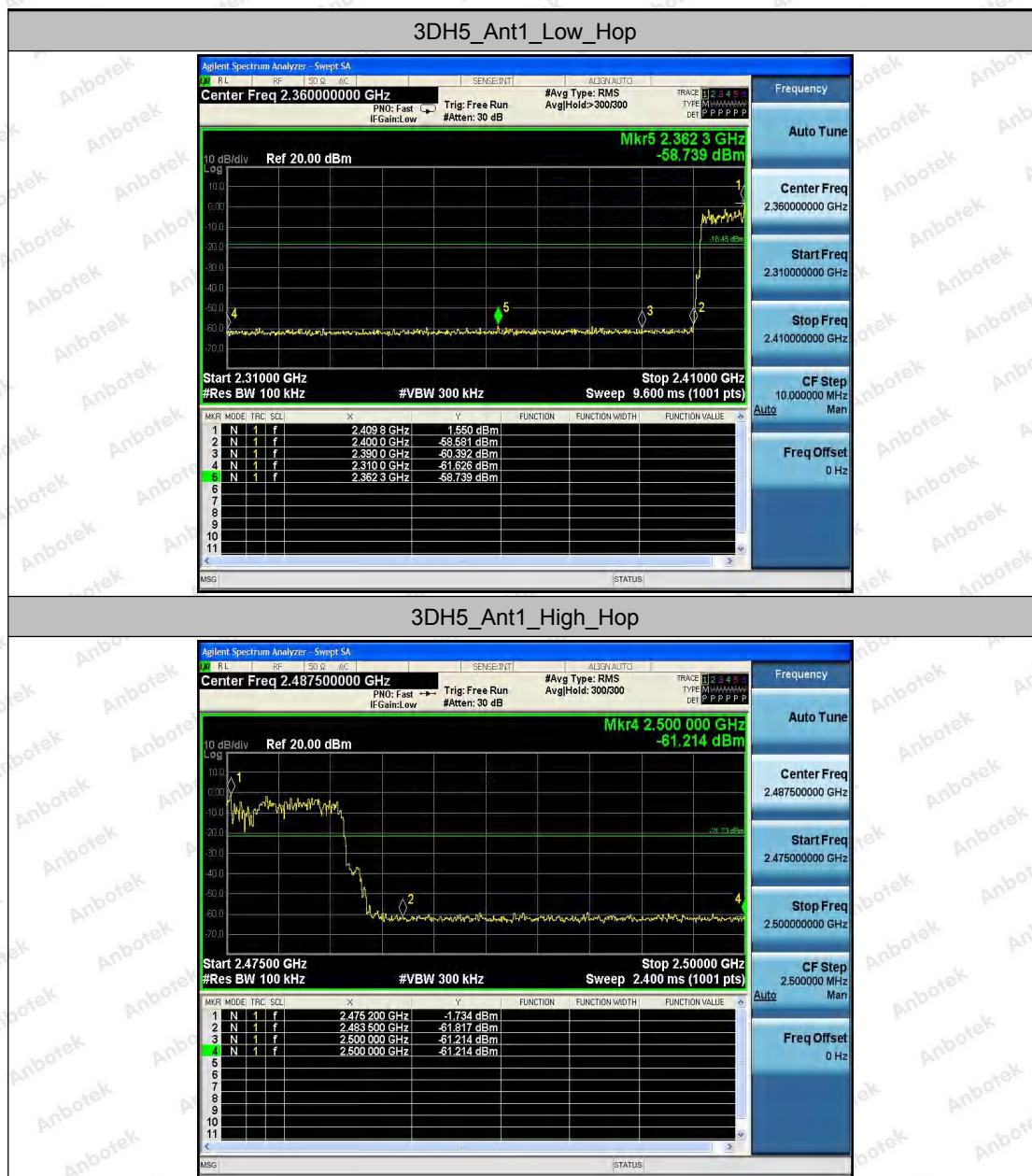


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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-70.14	≤-17.27	PASS
			1000~26500	2.74	-55.97	≤-17.27	PASS
		2441	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-70.4	≤-17.62	PASS
			1000~26500	2.38	-54.65	≤-17.62	PASS
		2480	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-69.76	≤-17.26	PASS
			1000~26500	2.74	-55.28	≤-17.26	PASS
2DH5	Ant1	2402	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-70.14	≤-18.46	PASS
			1000~26500	1.54	-54.74	≤-18.46	PASS
		2441	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-70.6	≤-18.76	PASS
			1000~26500	1.24	-55.53	≤-18.76	PASS
		2480	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-69.61	≤-18.17	PASS
			1000~26500	1.83	-55.59	≤-18.17	PASS
3DH5	Ant1	2402	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-70.53	≤-18.32	PASS
			1000~26500	1.68	-56.01	≤-18.32	PASS
		2441	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-69.16	≤-18.57	PASS
			1000~26500	1.44	-55.28	≤-18.57	PASS
		2480	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-70.51	≤-18.74	PASS
			1000~26500	1.26	-56	≤-18.74	PASS

Test Graphs

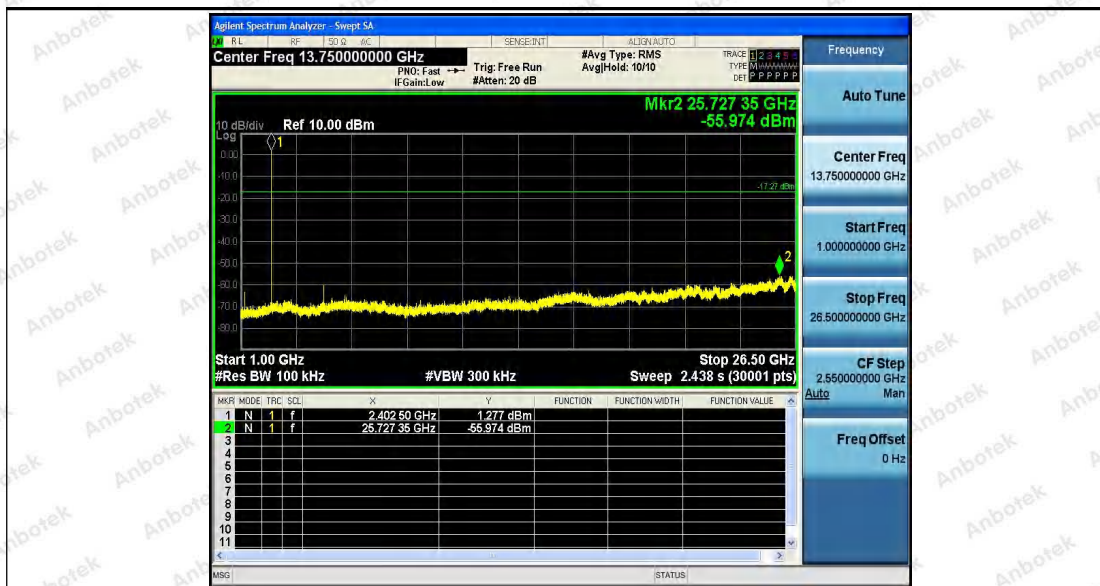


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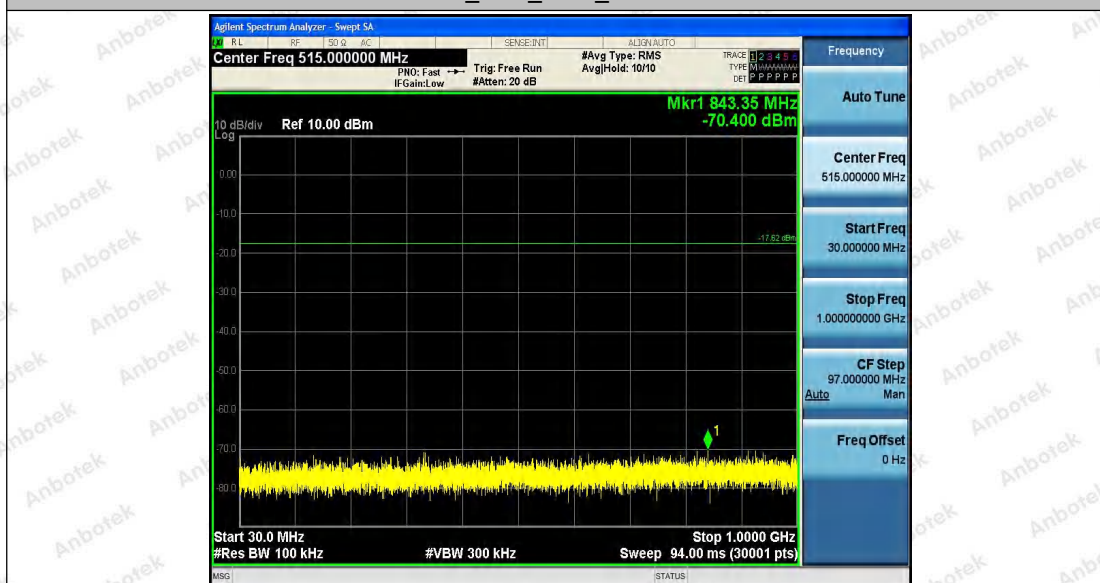
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



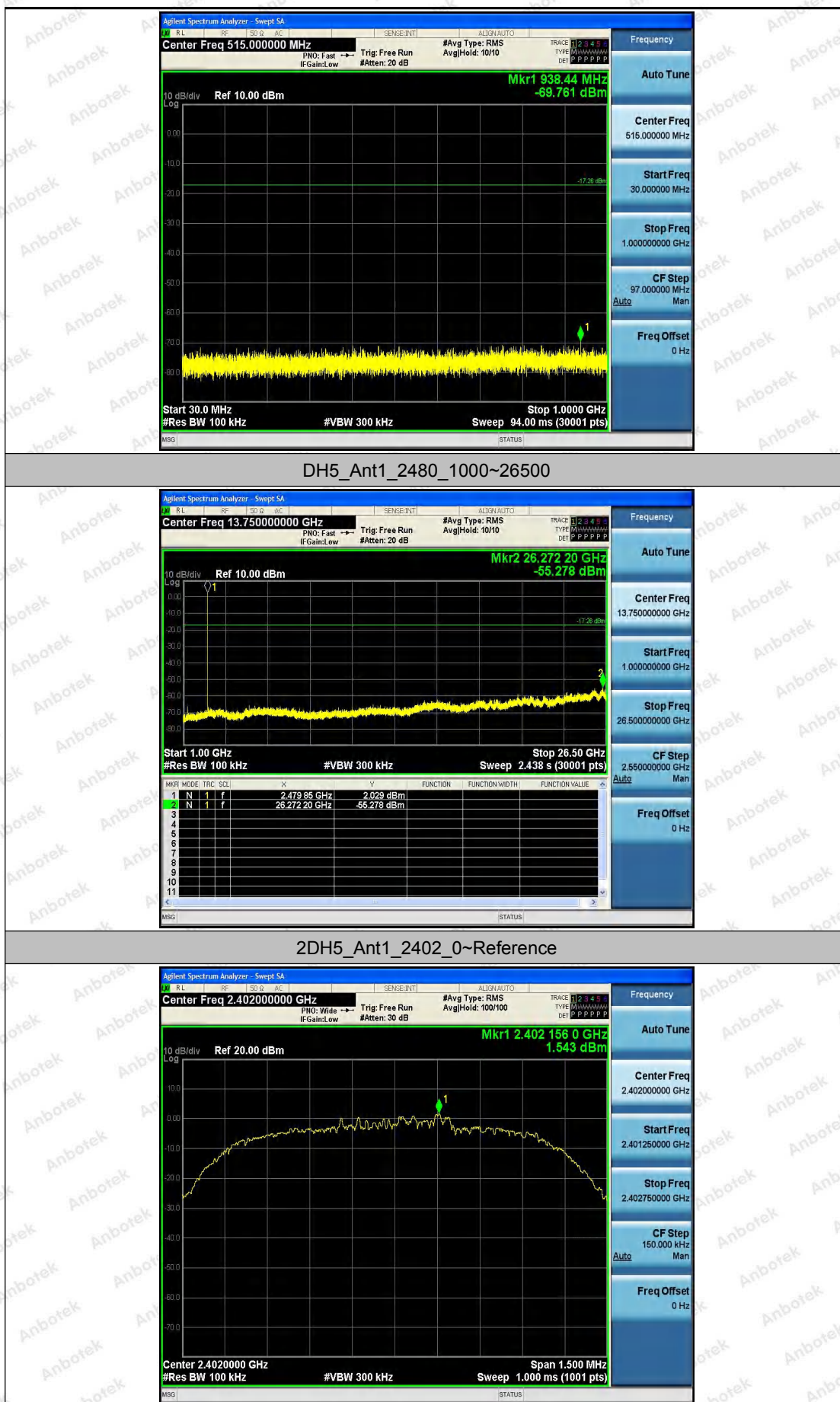
DH5_Ant1_2480_30~1000

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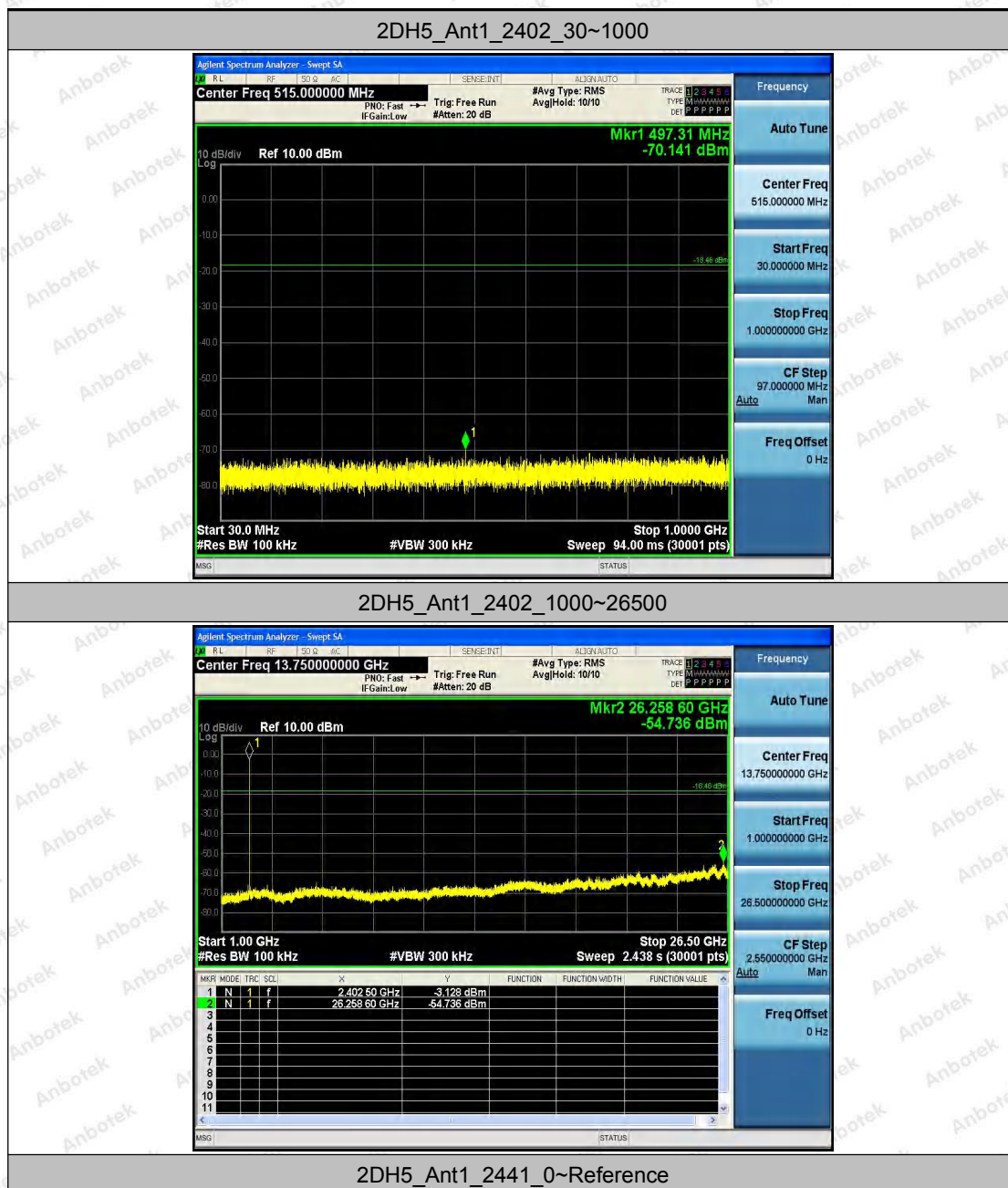


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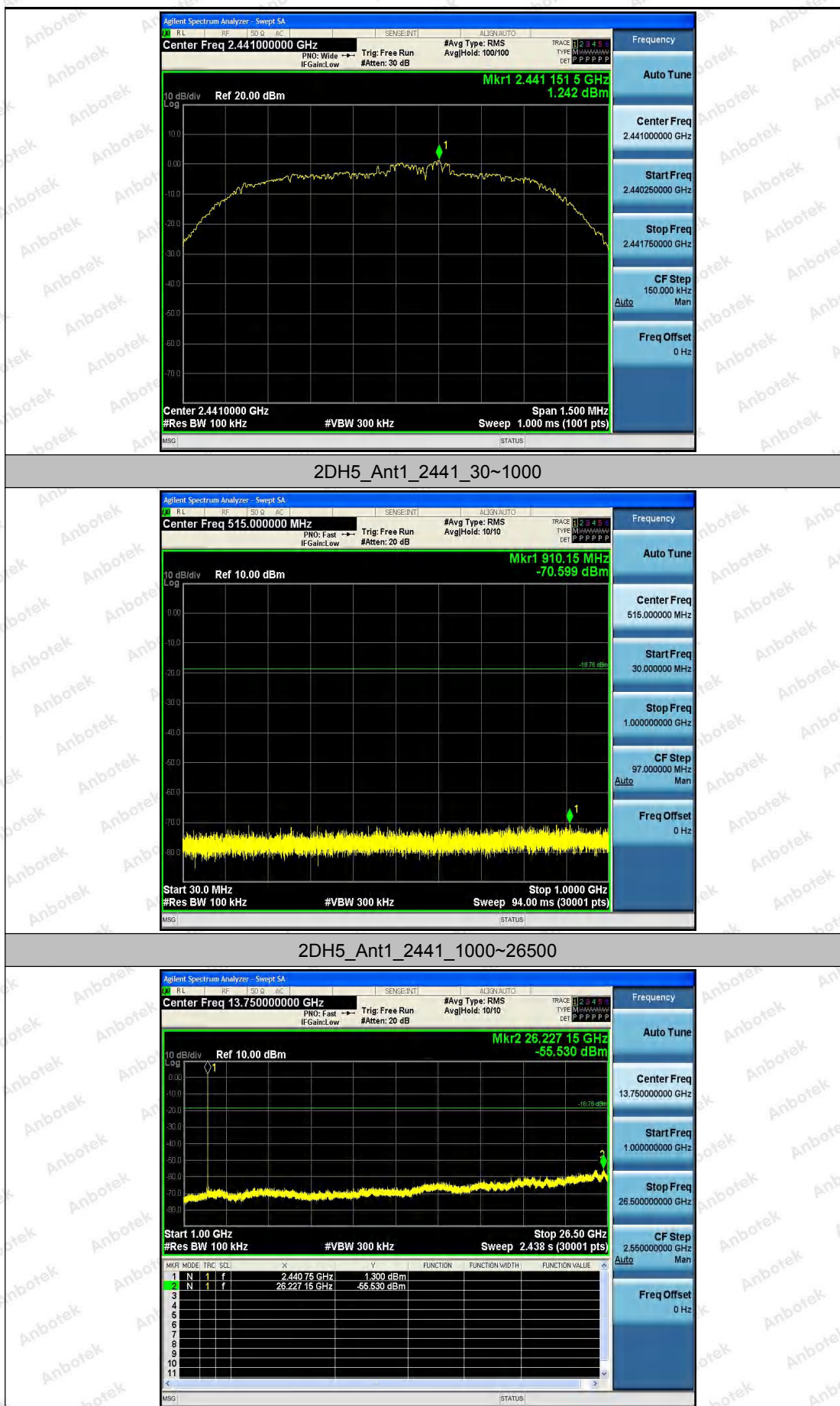


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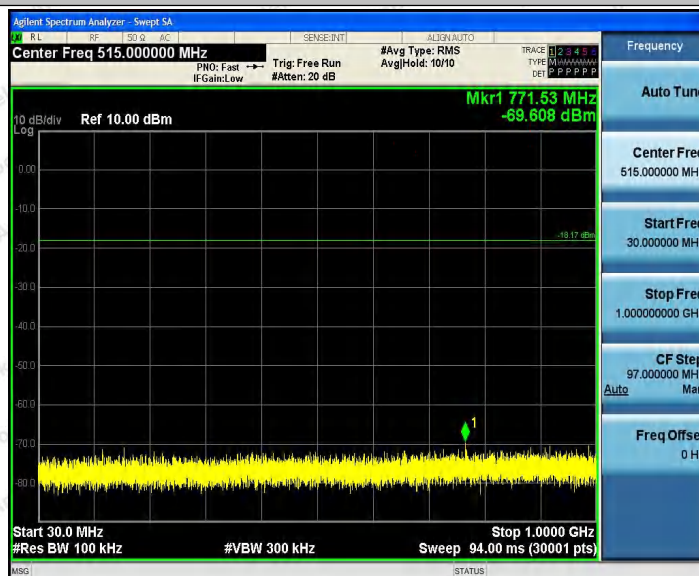
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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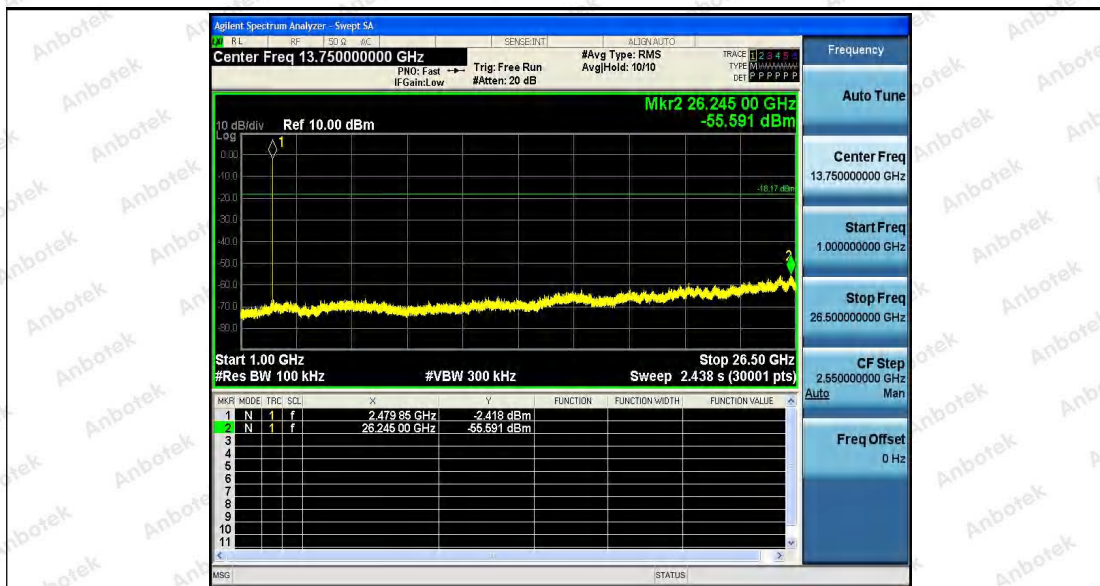
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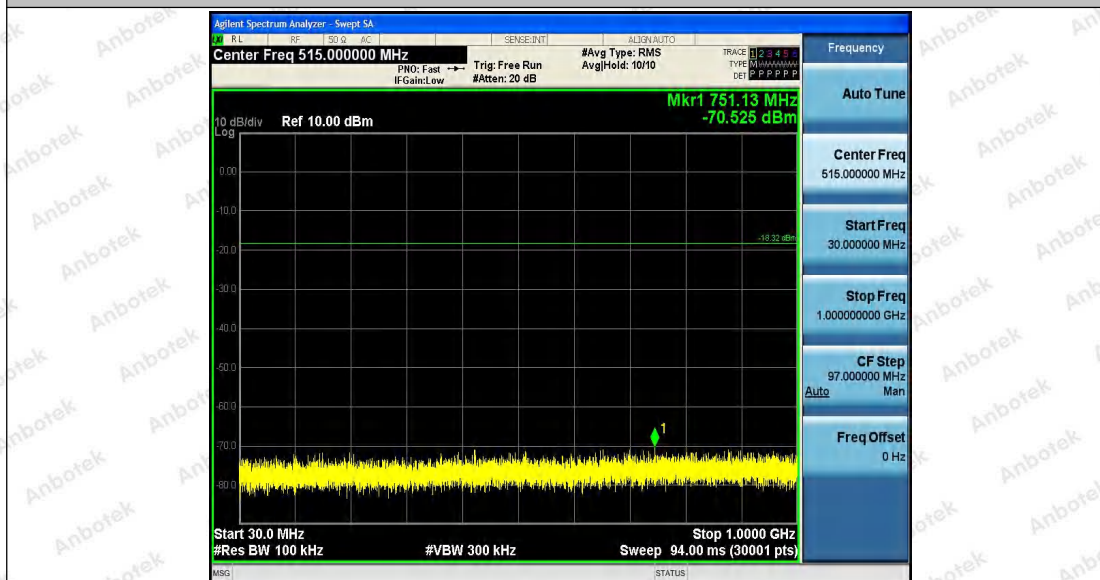
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



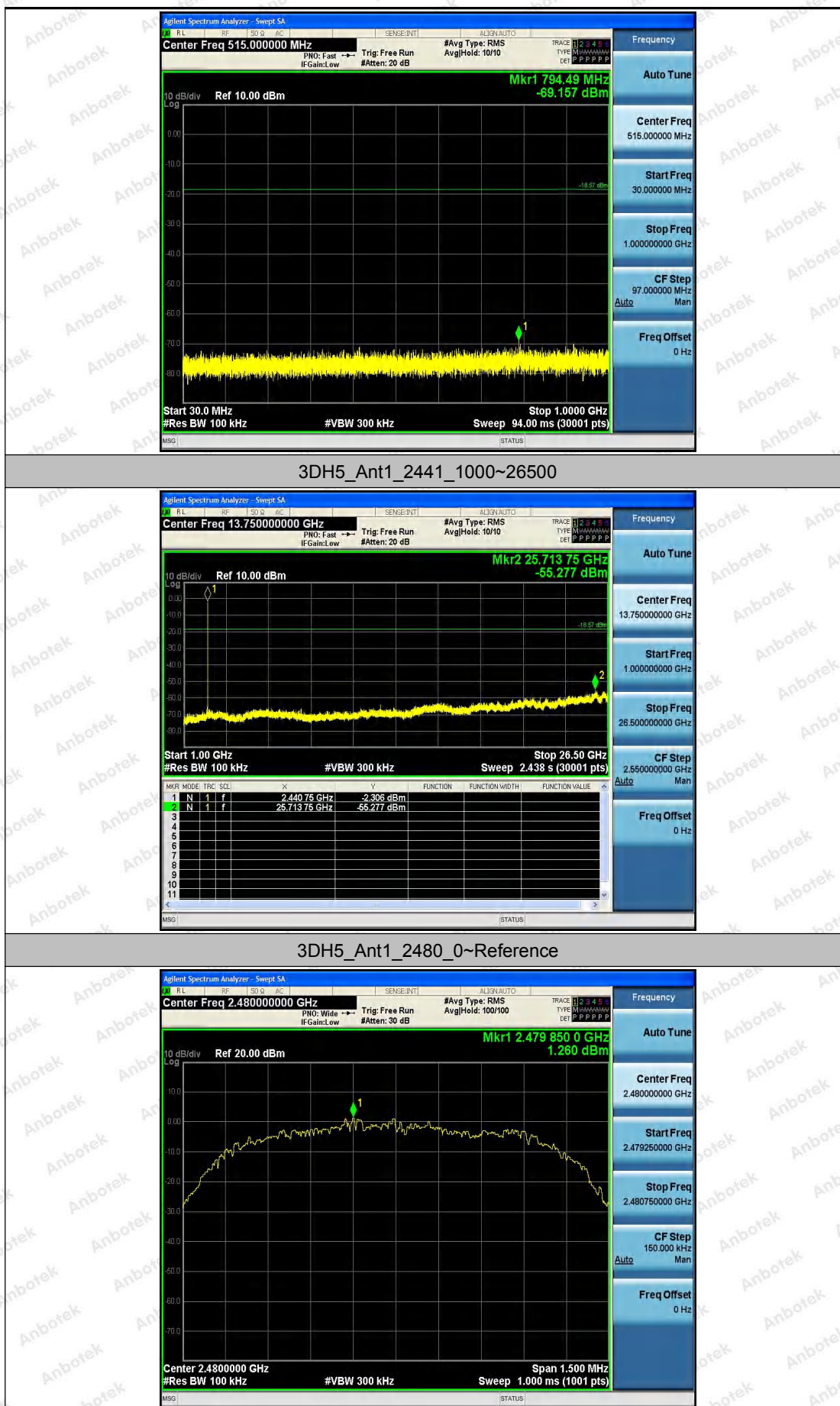
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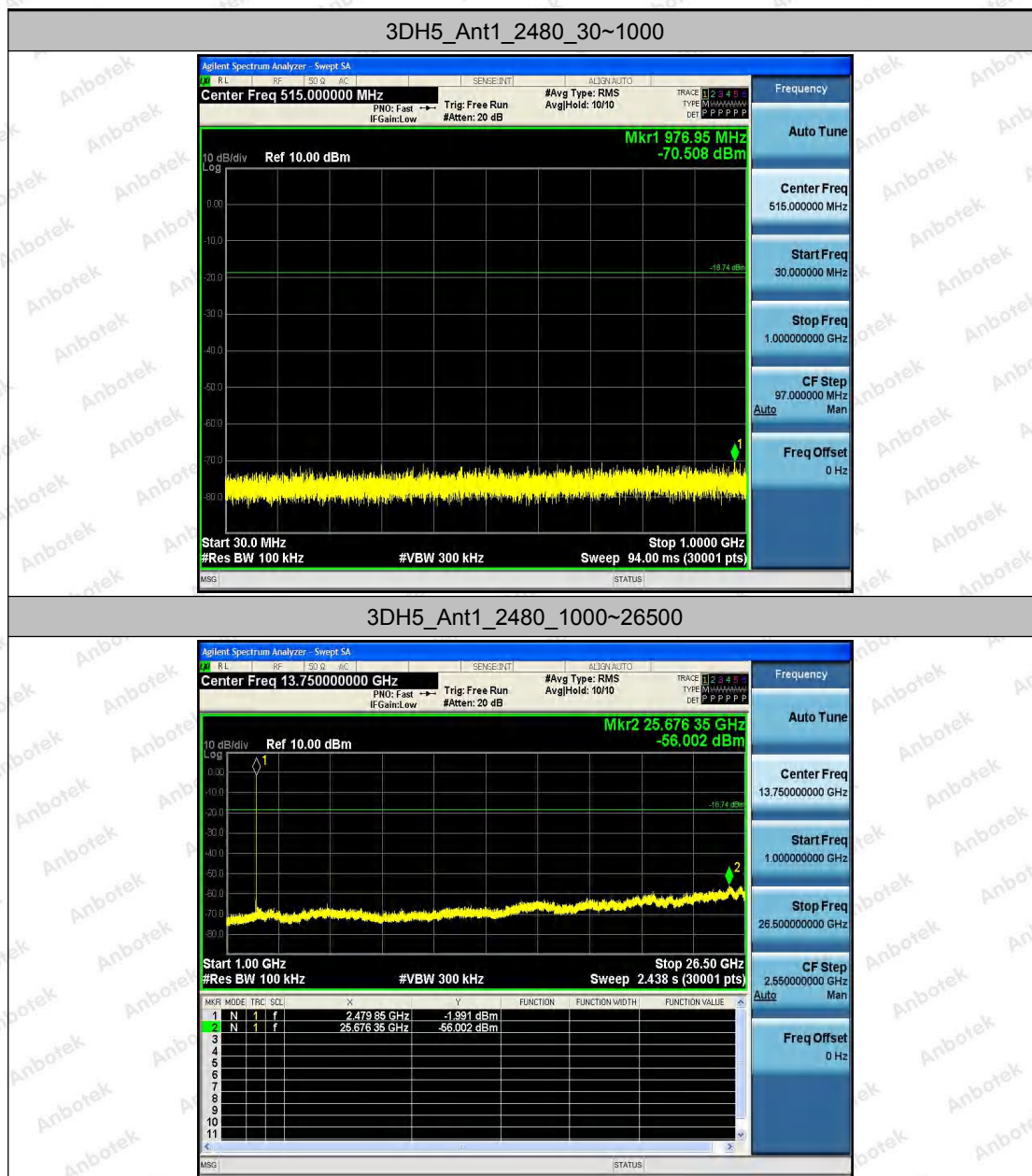


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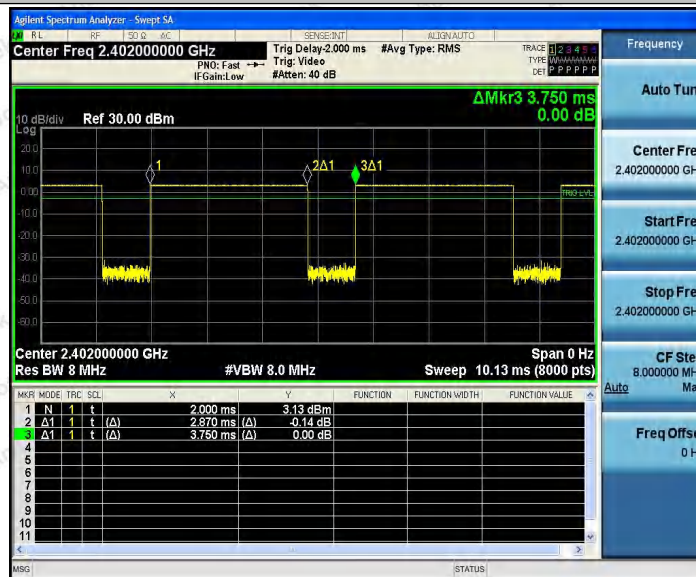
Appendix I: Duty Cycle

Test Result

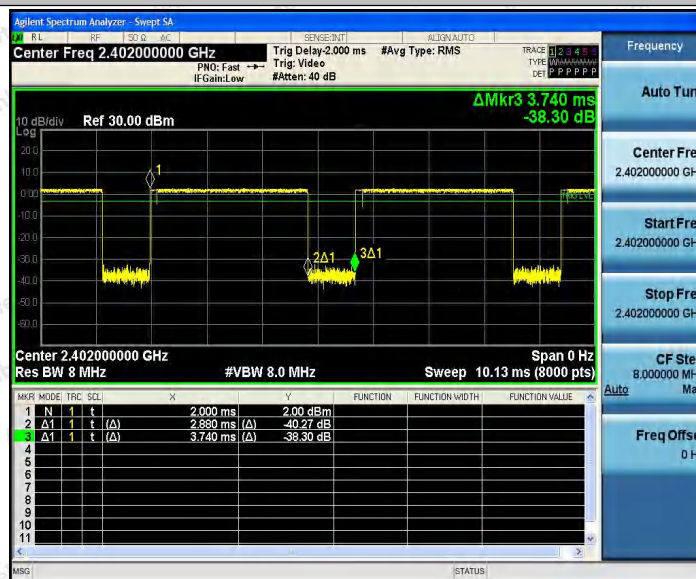
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.7701	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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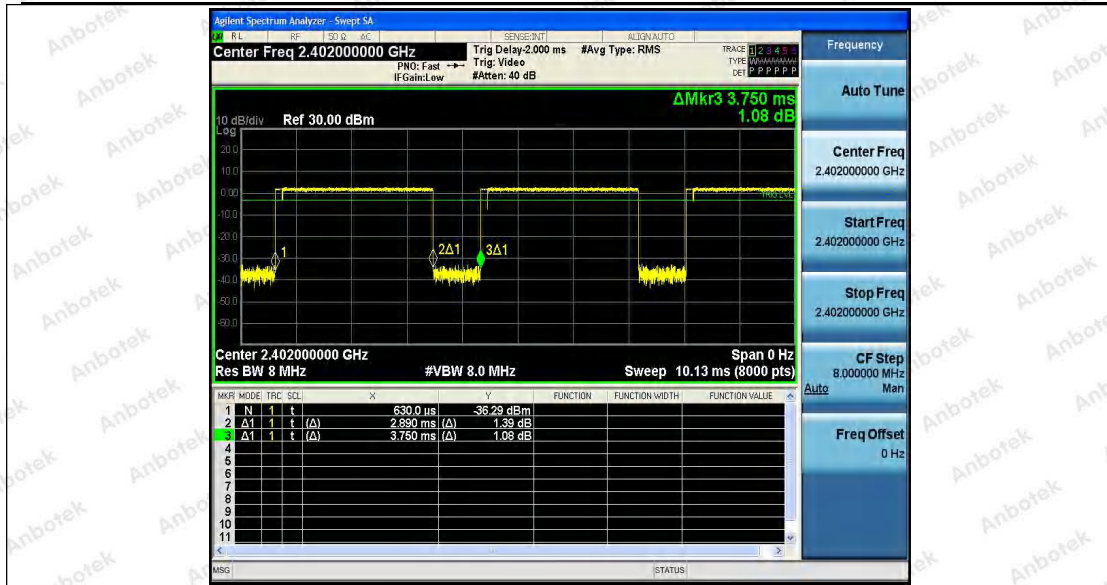
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