

Appendix Test Data

Report No.:	18220WC20116001	Test Sample No.:	1-2-2
Start Test Date:	2022.5.30	Finish Test Date:	2022.6.24
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

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.266	2401.370	2402.636	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.338	2479.334	2480.672	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.311	2440.346	2441.657	---	PASS
		2480	1.335	2479.328	2480.663	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89927	2401.553	2402.452	---	PASS
		2441	0.89112	2440.554	2441.445	---	PASS
		2480	0.88738	2479.557	2480.444	---	PASS
2DH5	Ant1	2402	1.1982	2401.400	2402.598	---	PASS
		2441	1.1934	2440.403	2441.597	---	PASS
		2480	1.1976	2479.403	2480.601	---	PASS
3DH5	Ant1	2402	1.2099	2401.387	2402.596	---	PASS
		2441	1.2073	2440.388	2441.595	---	PASS
		2480	1.2130	2479.384	2480.597	---	PASS

Test Graphs





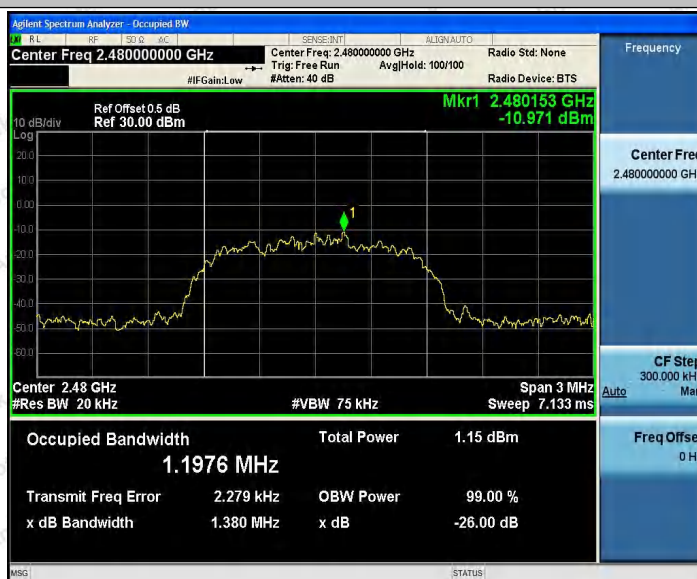
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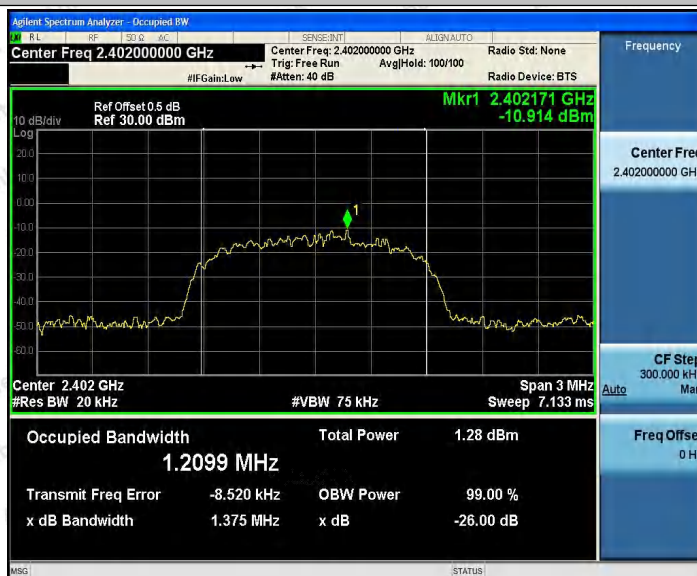
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

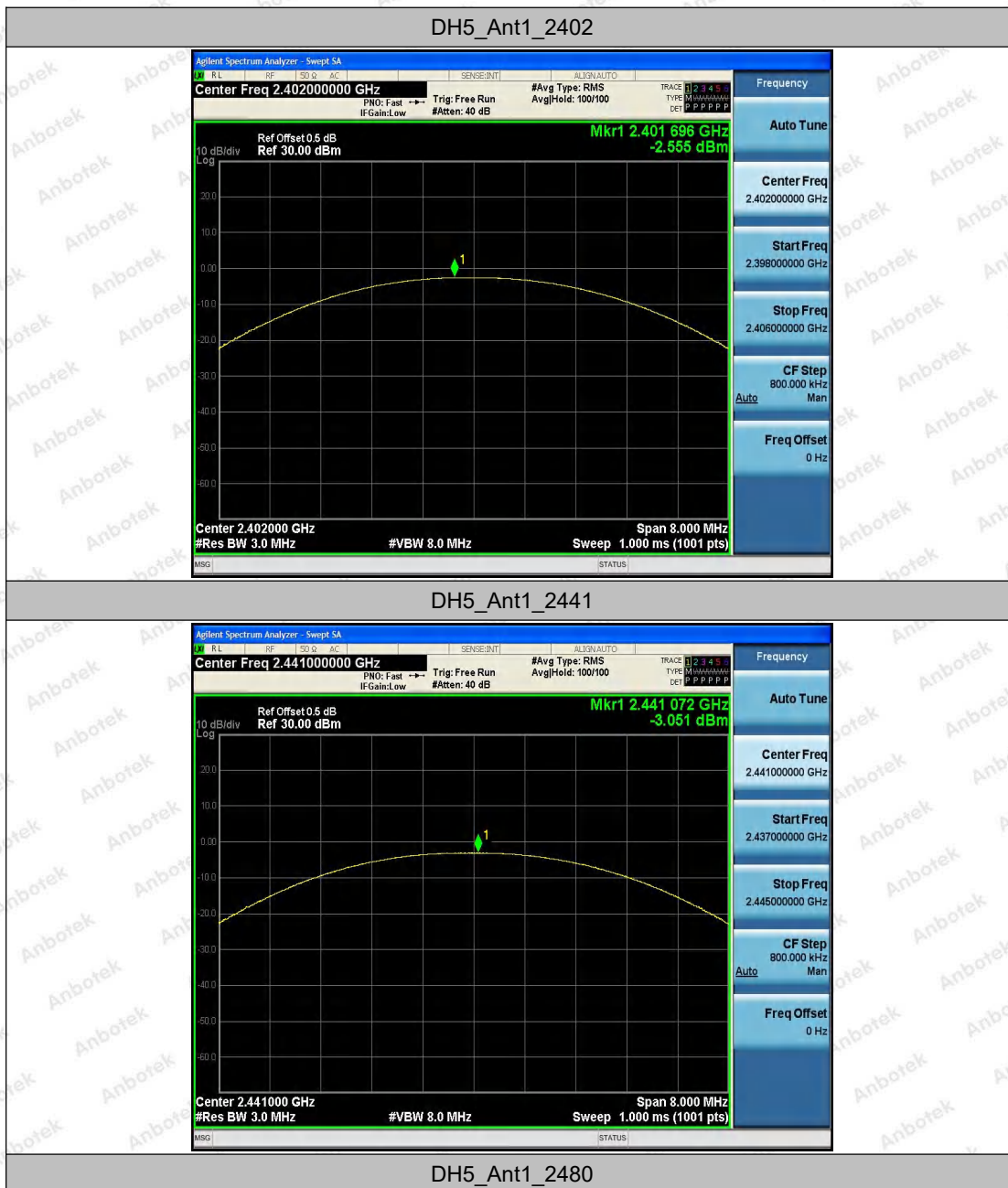


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.56	≤20.97	PASS
		2441	-3.05	≤20.97	PASS
		2480	-3.37	≤20.97	PASS
2DH5	Ant1	2402	-3.41	≤20.97	PASS
		2441	-3.76	≤20.97	PASS
		2480	-4.03	≤20.97	PASS
3DH5	Ant1	2402	-3.27	≤20.97	PASS
		2441	-3.64	≤20.97	PASS
		2480	-3.98	≤20.97	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

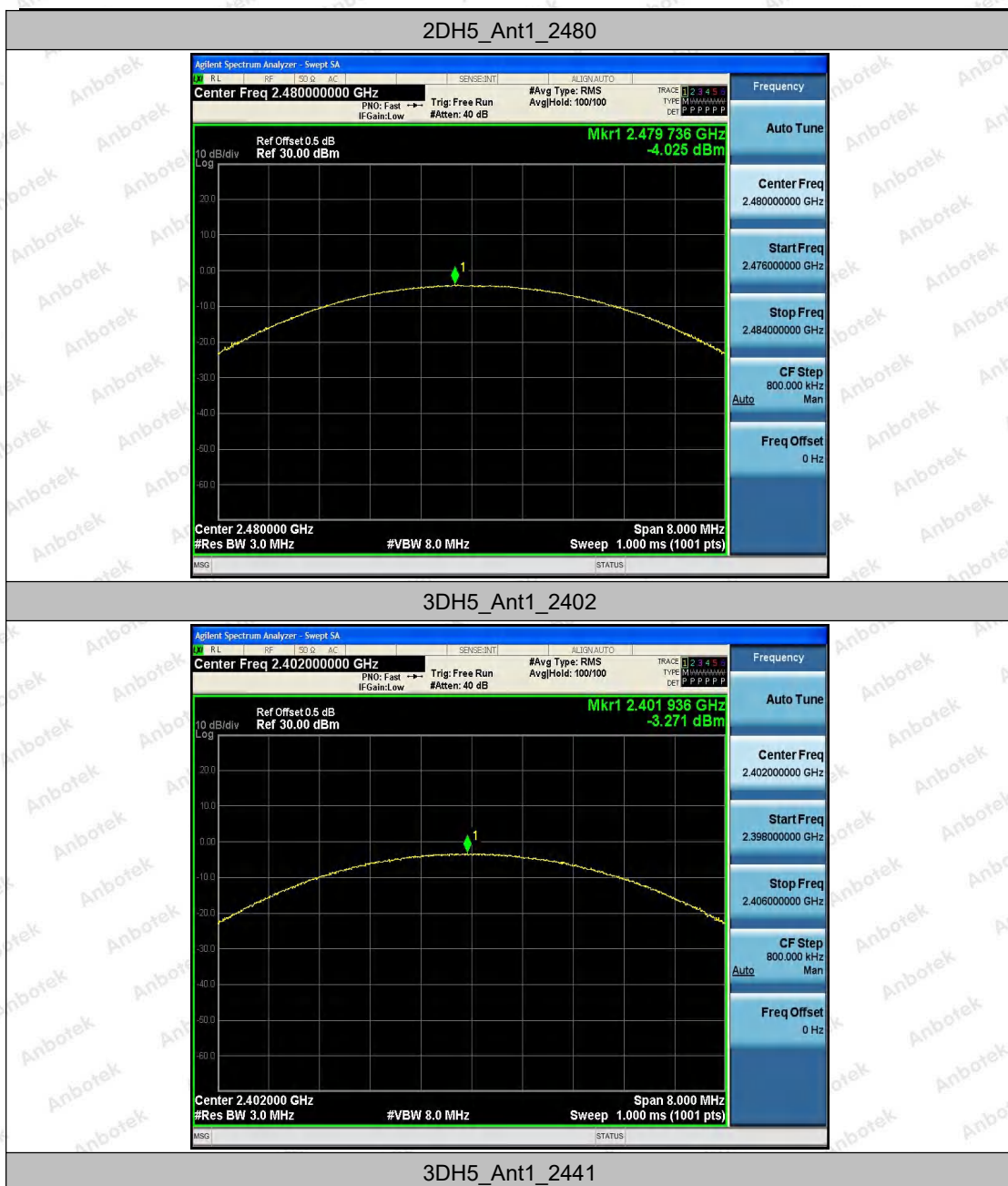


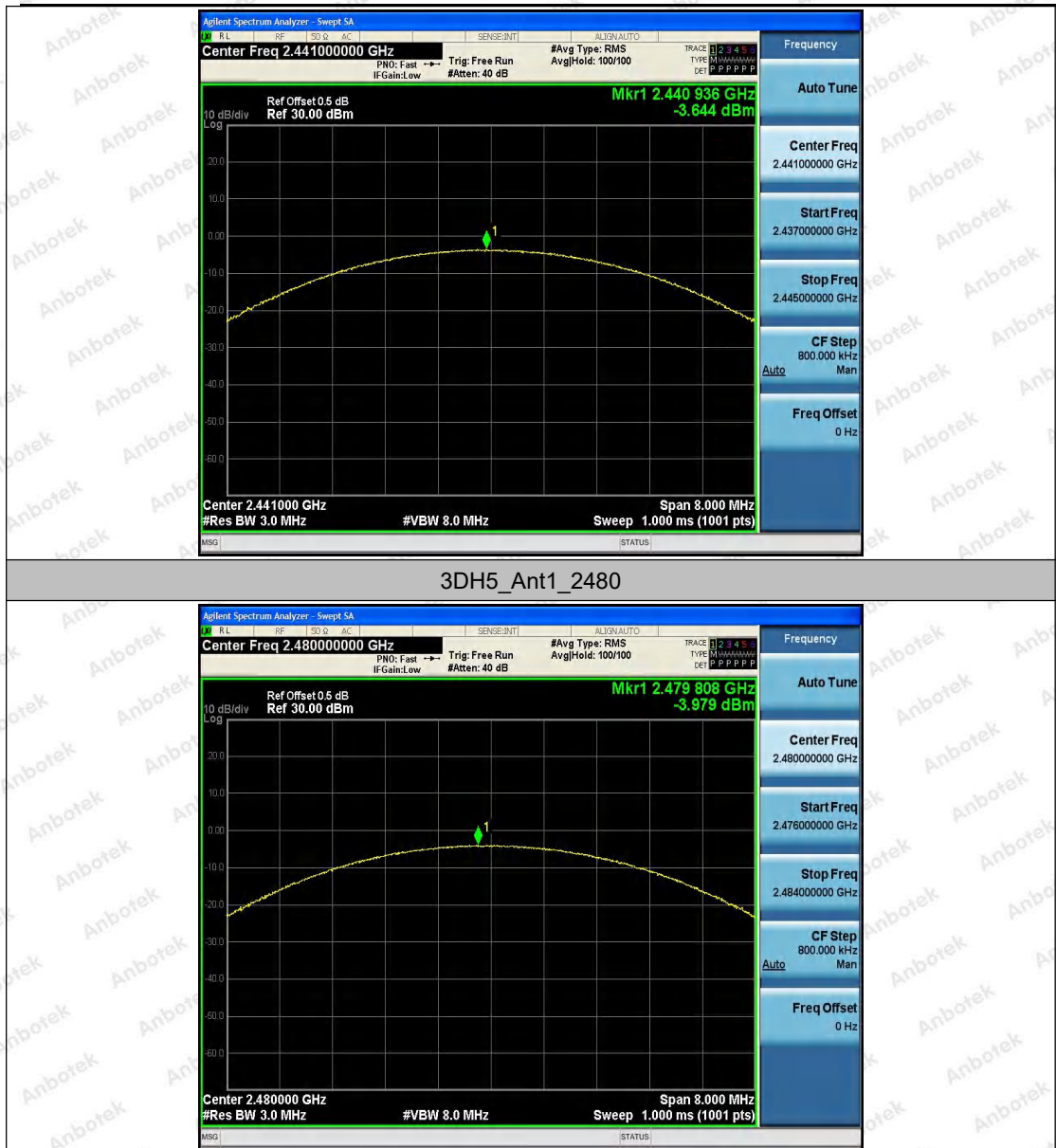
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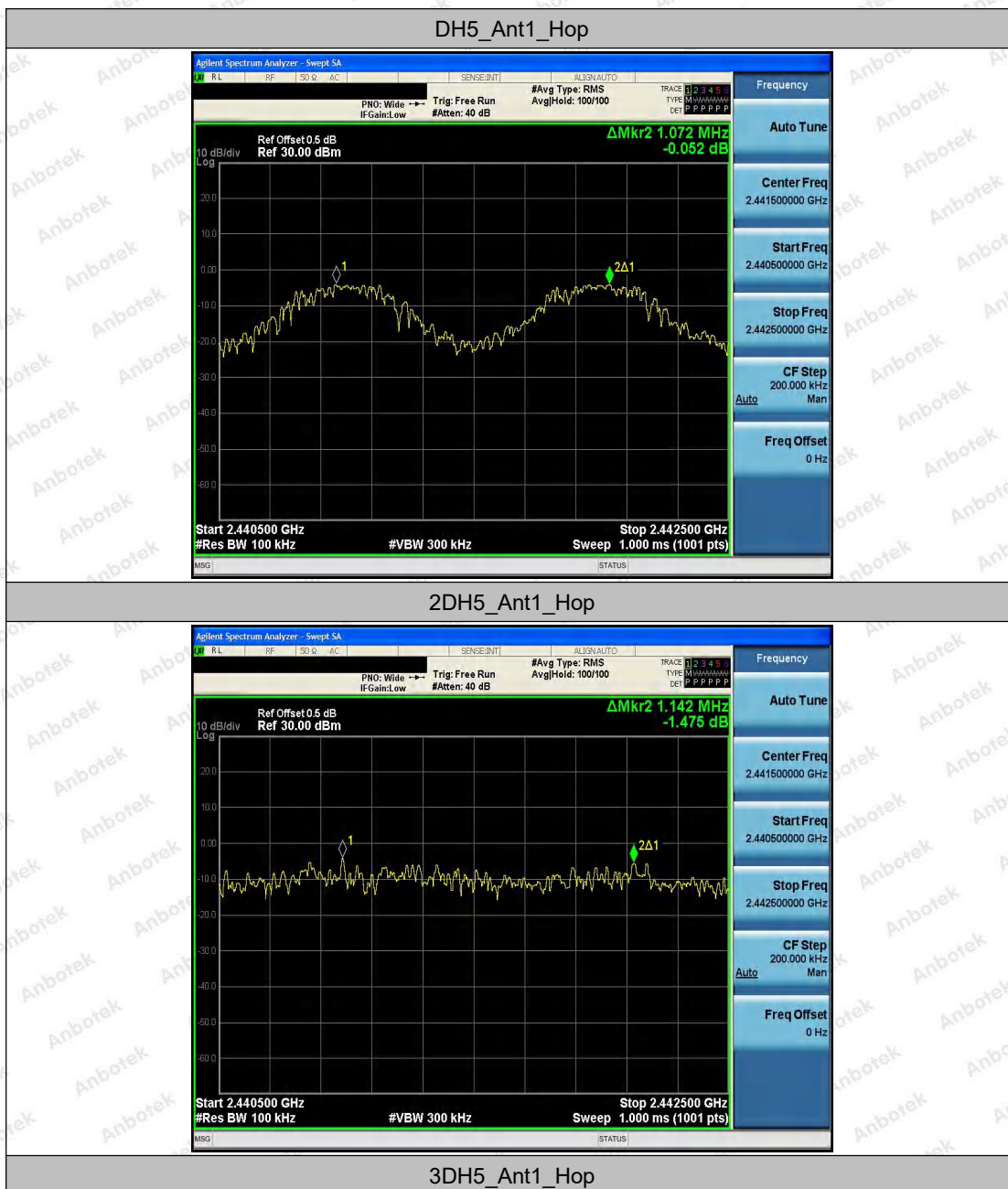
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.072	≥ 0.948	PASS
2DH5	Ant1	Hop	1.142	≥ 0.892	PASS
3DH5	Ant1	Hop	1.046	≥ 0.890	PASS

Test Graphs





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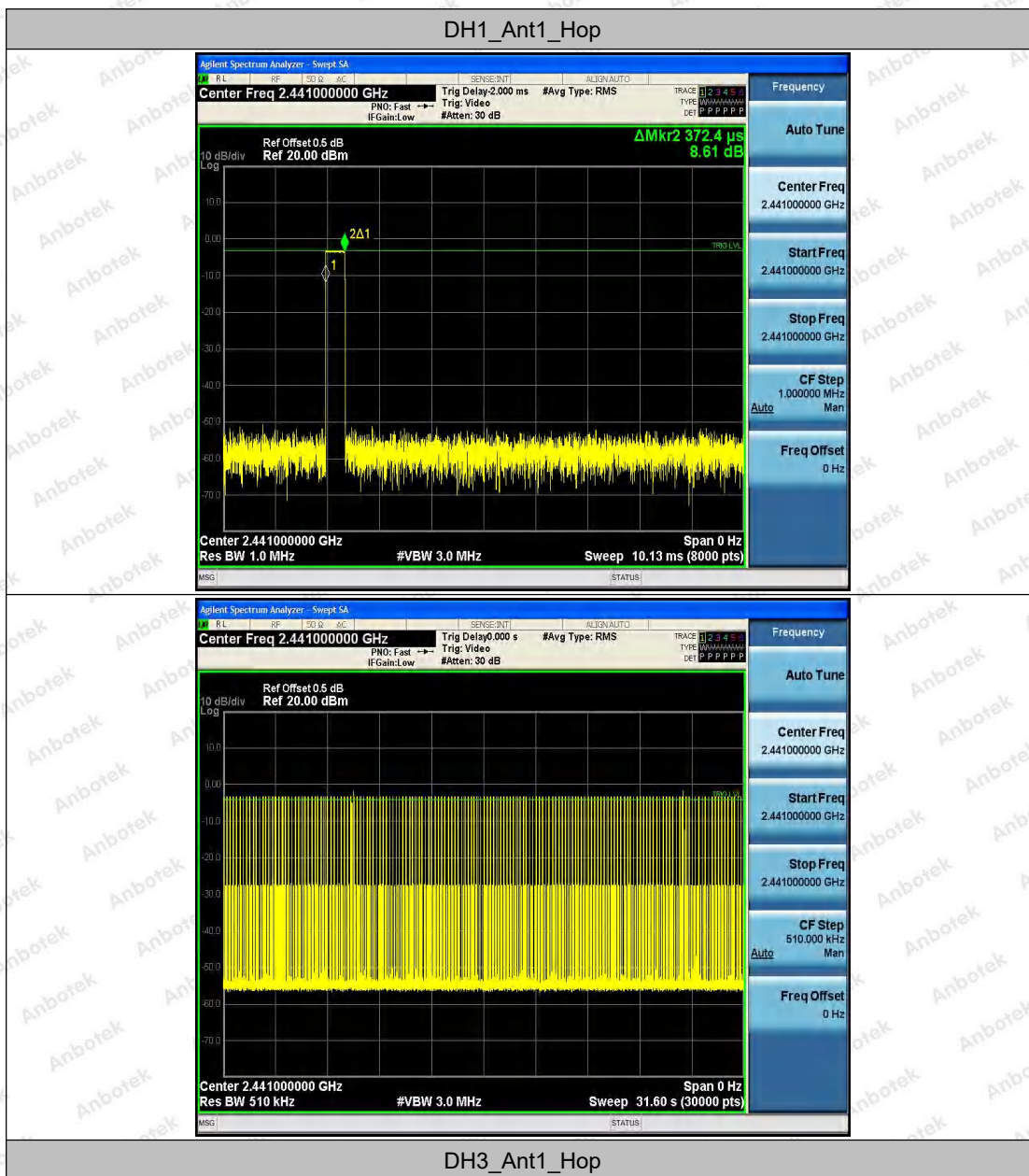
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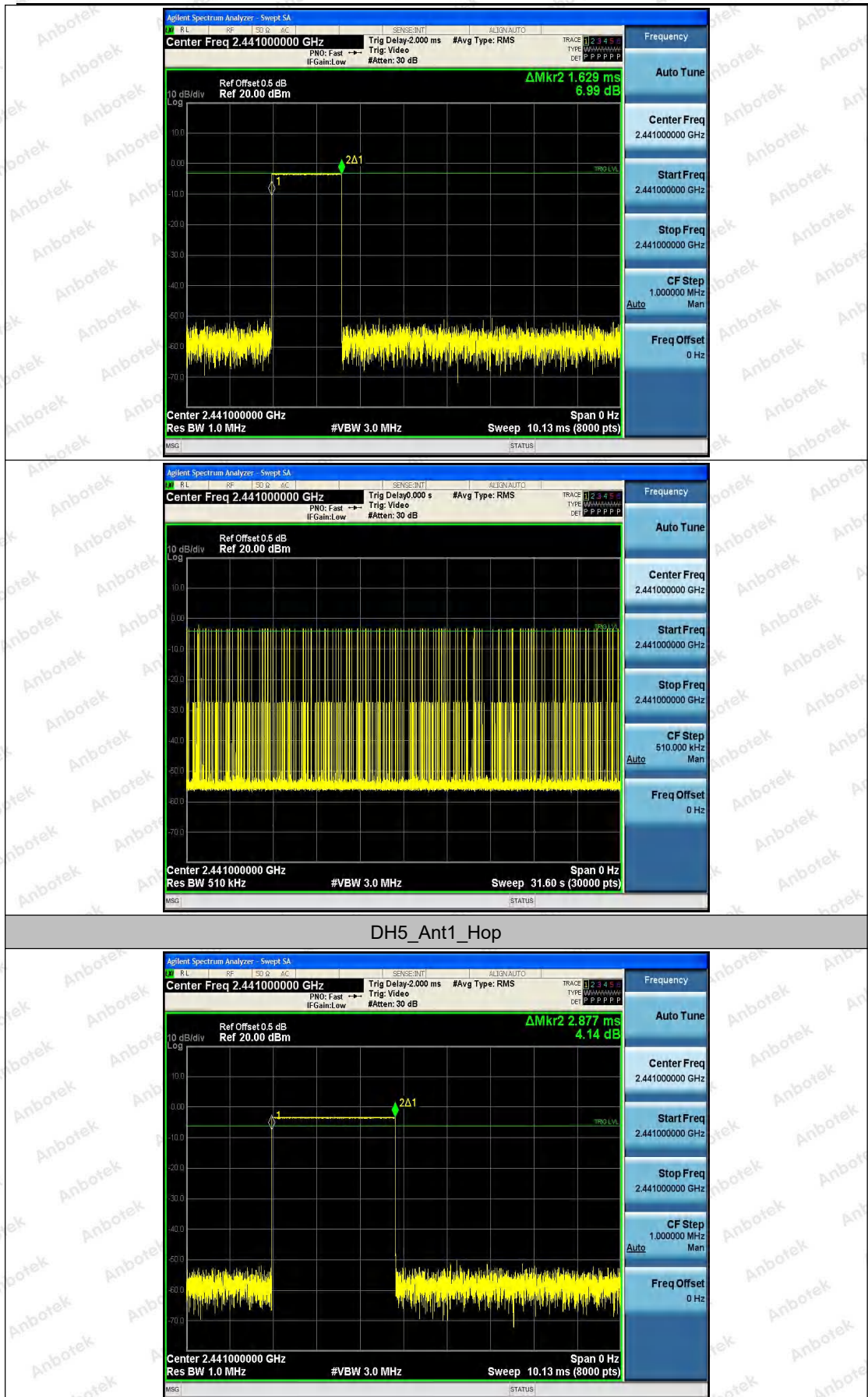
Appendix E: Time of occupancy

Test Result

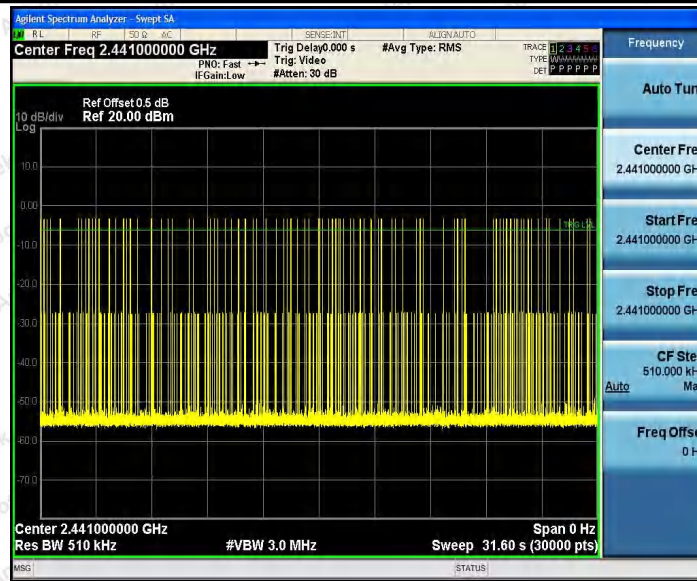
Test Mode	Antenna	Channel	Burst Width[ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	161	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.88	113	0.325	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	155	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
3DH1	Ant1	Hop	0.38	319	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	163	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS

Test Graphs

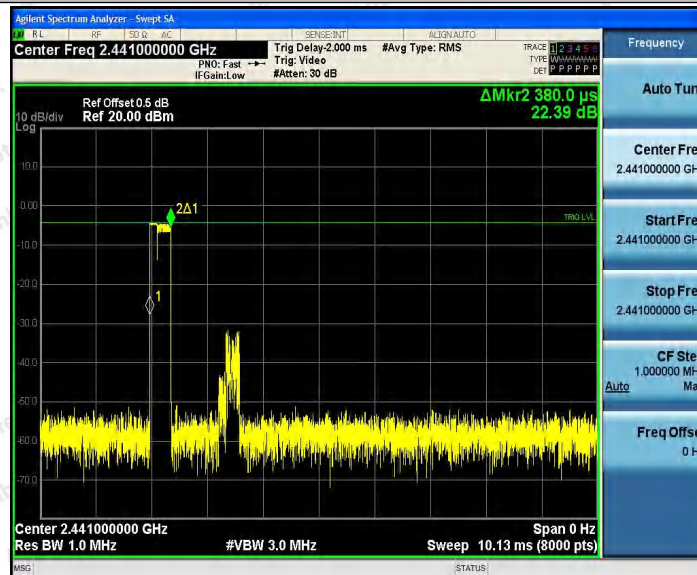




DH5_Ant1_Hop



2DH1_Ant1_Hop



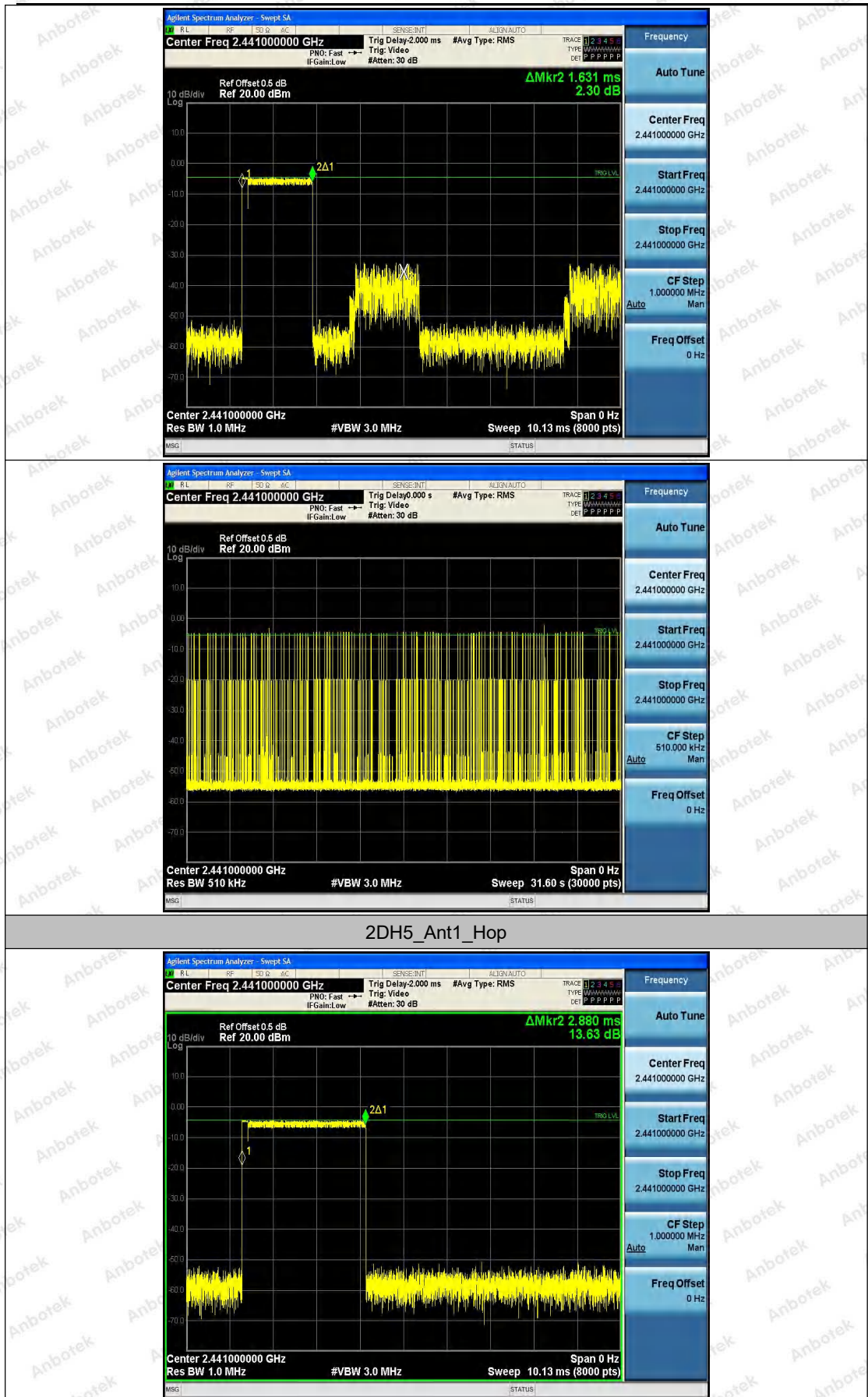
2DH3_Ant1_Hop

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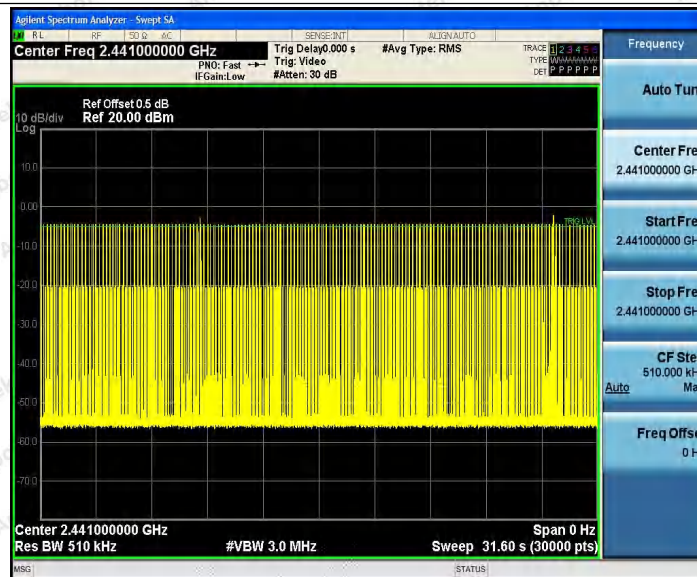
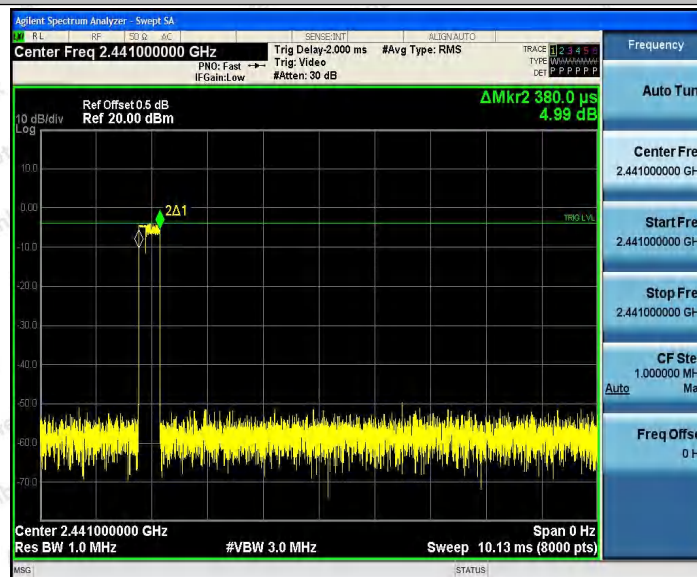
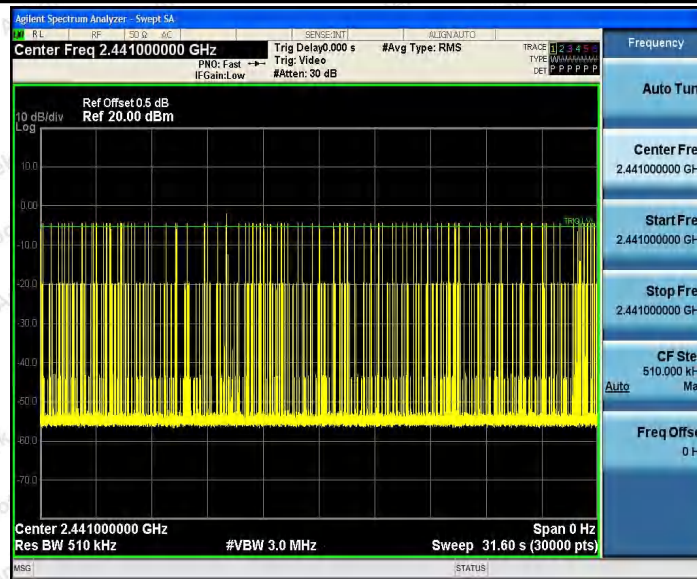


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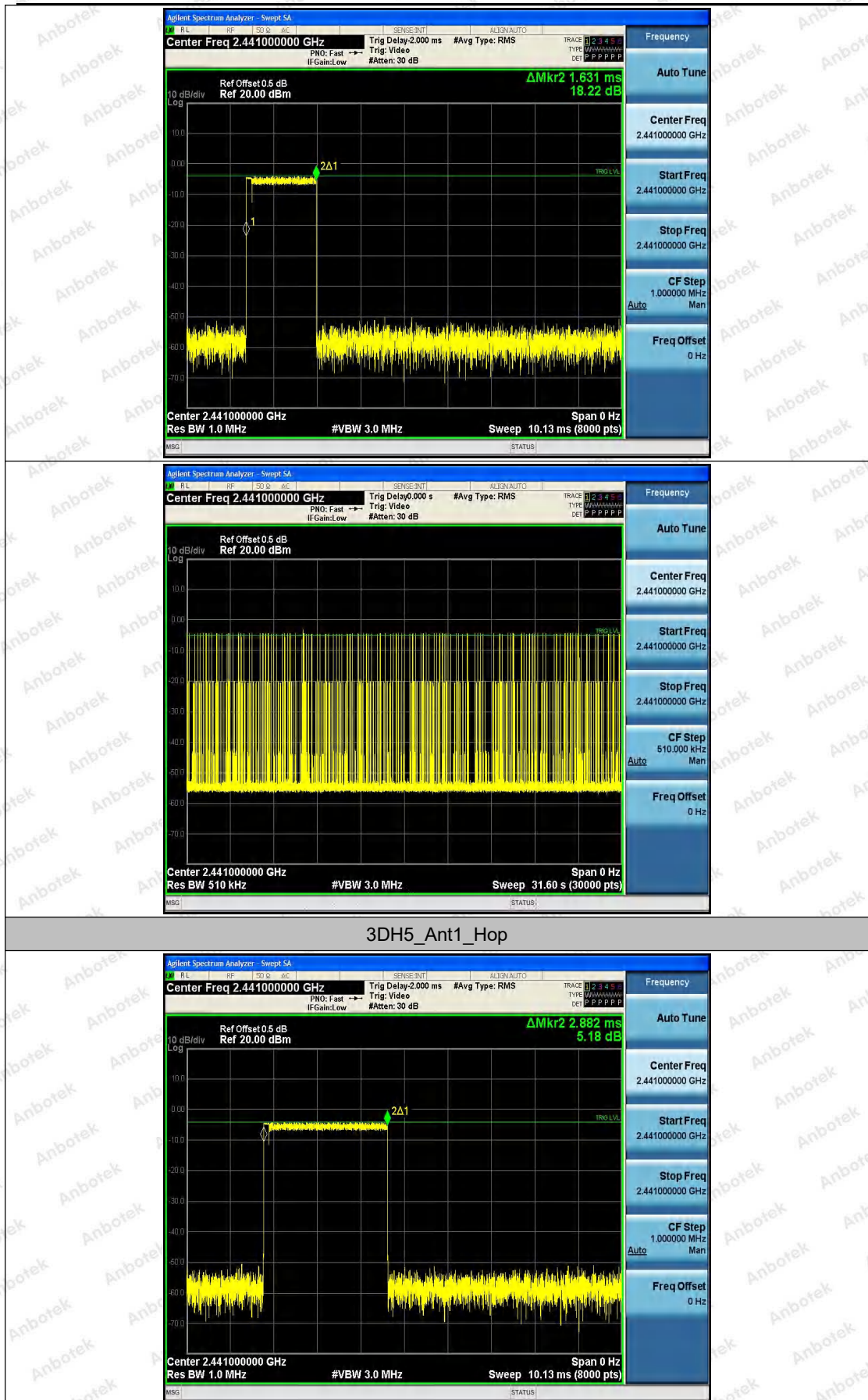


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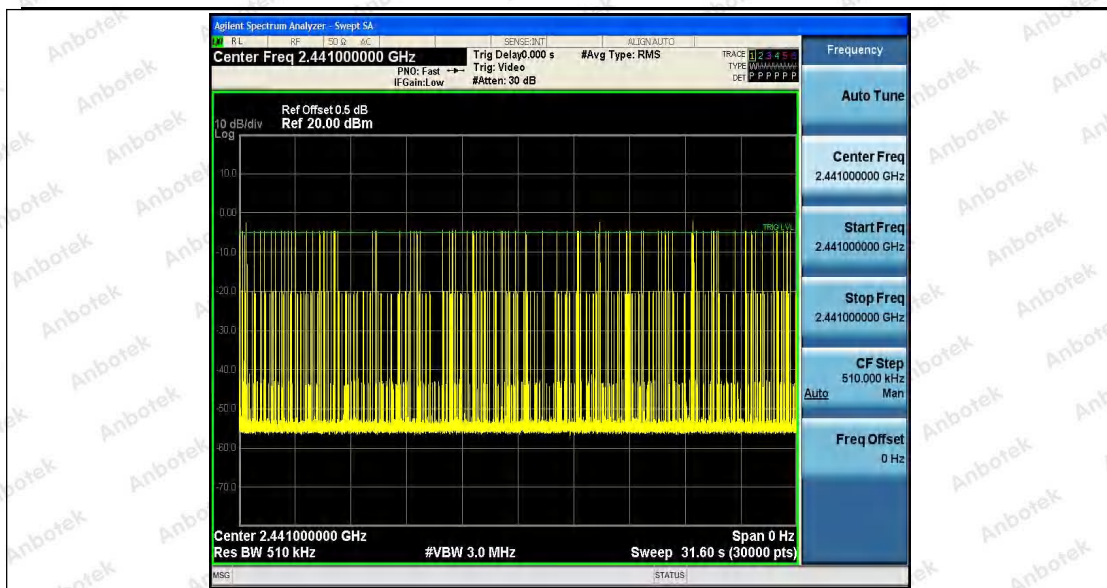


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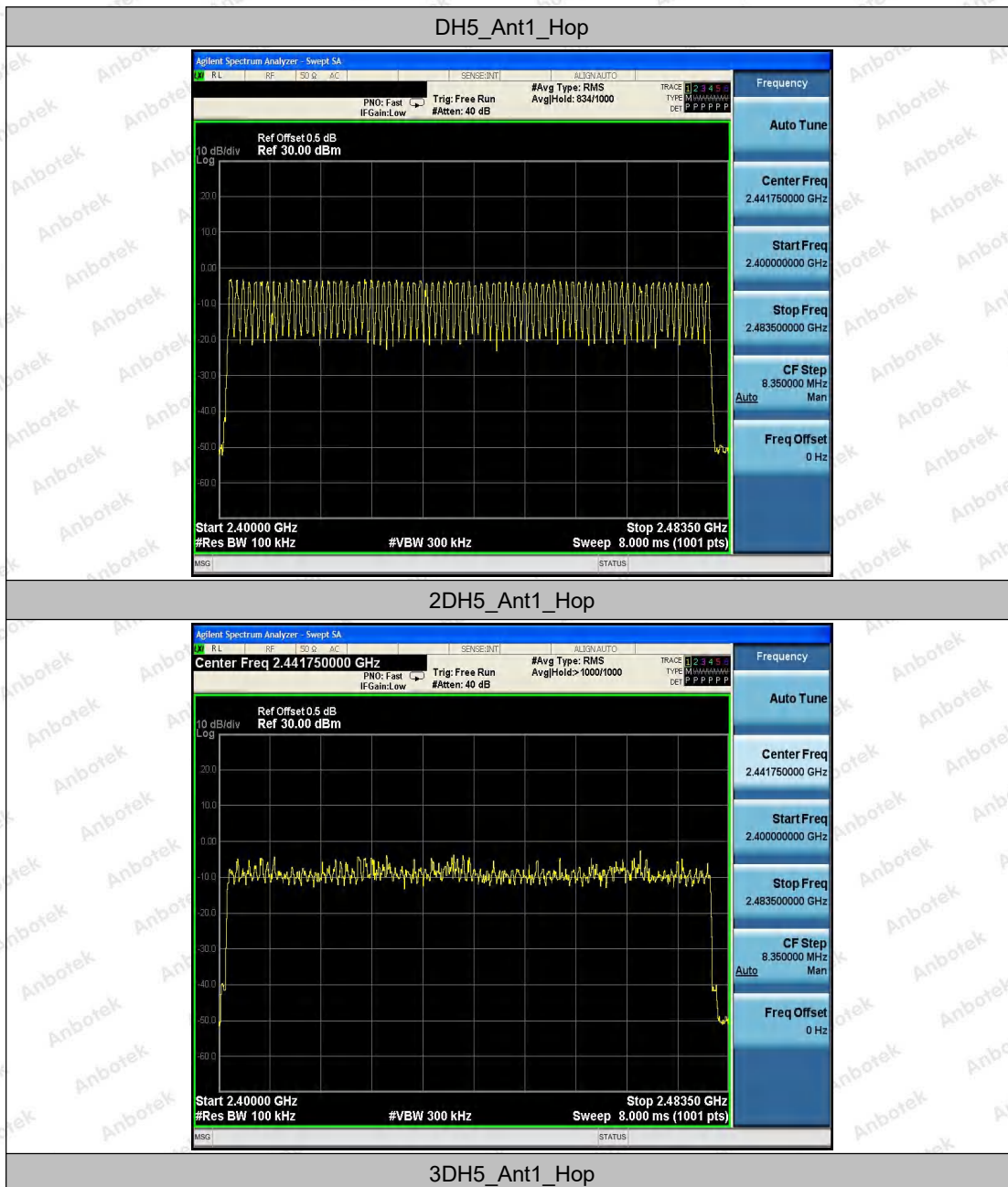
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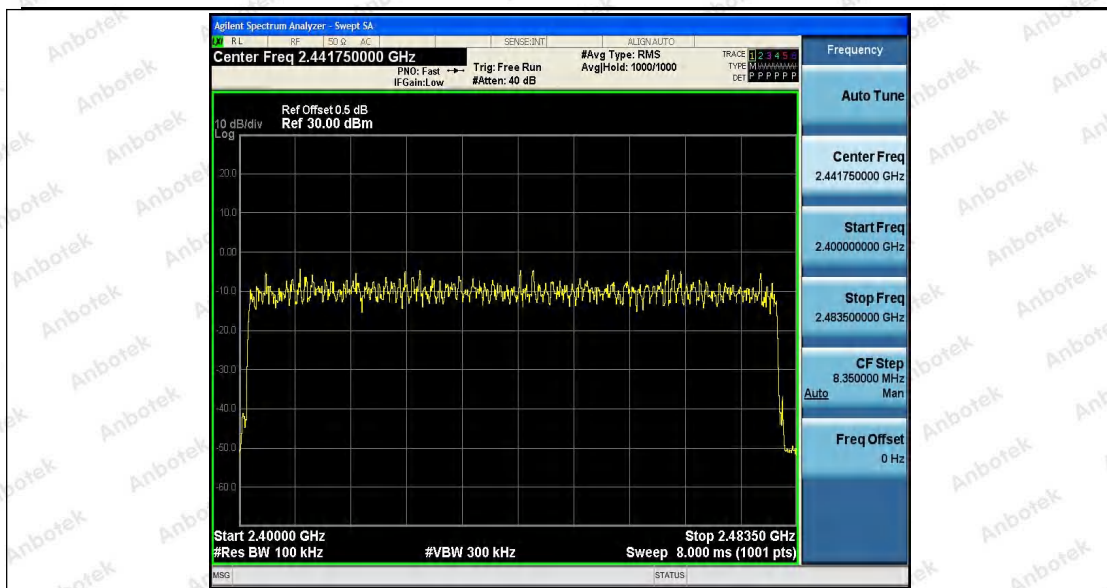
Appendix F: Number of hopping channels

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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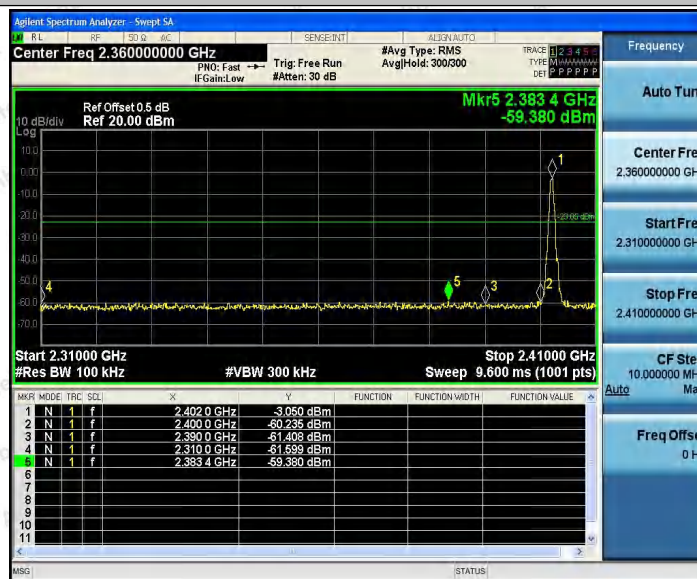
Appendix G: Band edge measurements

Test Result

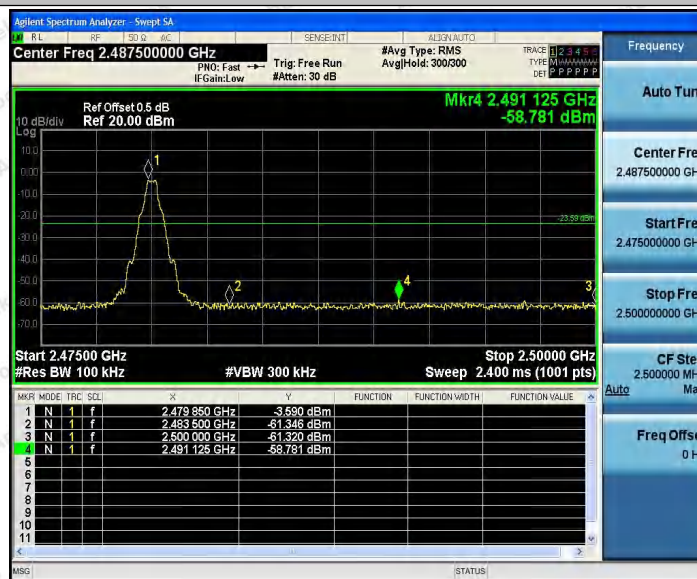
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.05	-59.38	≤ -23.05	PASS
		High	2480	-3.59	-58.78	≤ -23.59	PASS
		Low	Hop	-3.42	-59.24	≤ -23.42	PASS
		High	Hop	-3.93	-60.06	≤ -23.93	PASS
2DH5	Ant1	Low	2402	-4.24	-58.31	≤ -24.24	PASS
		High	2480	-5.15	-57.84	≤ -25.15	PASS
		Low	Hop	-7.36	-59.02	≤ -27.36	PASS
		High	Hop	-6.03	-61.67	≤ -26.03	PASS
3DH5	Ant1	Low	2402	-4.67	-58.42	≤ -24.67	PASS
		High	2480	-4.77	-58.71	≤ -24.77	PASS
		Low	Hop	-8.53	-58.96	≤ -28.53	PASS
		High	Hop	-8.65	-62.06	≤ -28.65	PASS

Test Graphs

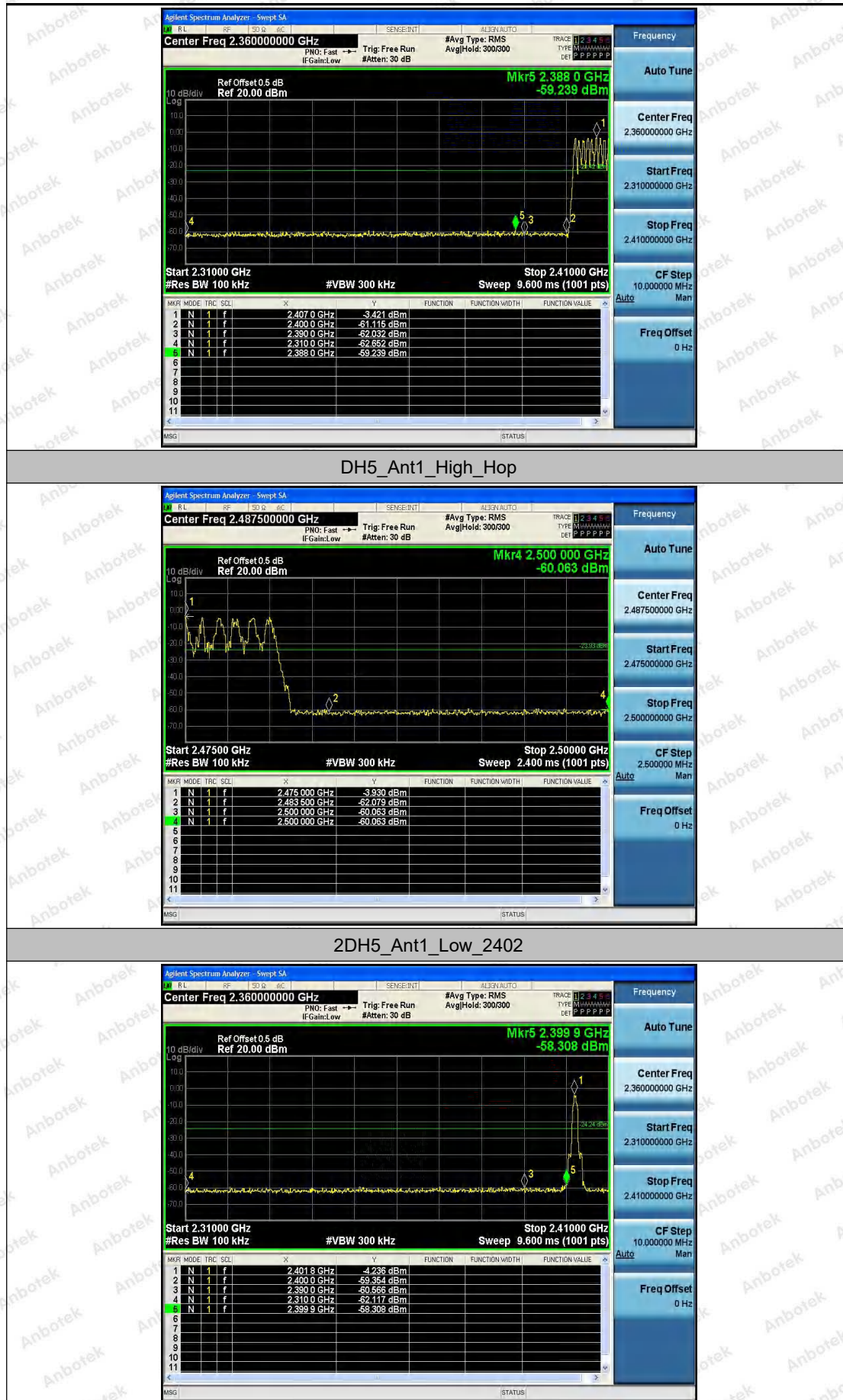
DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



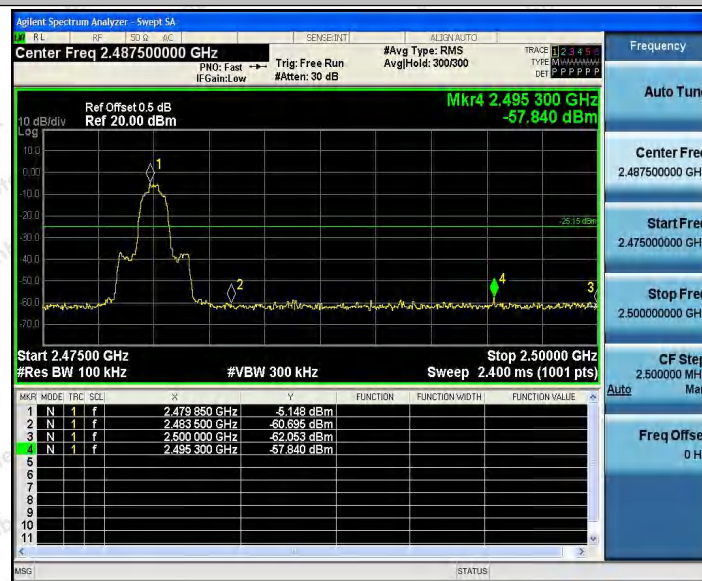
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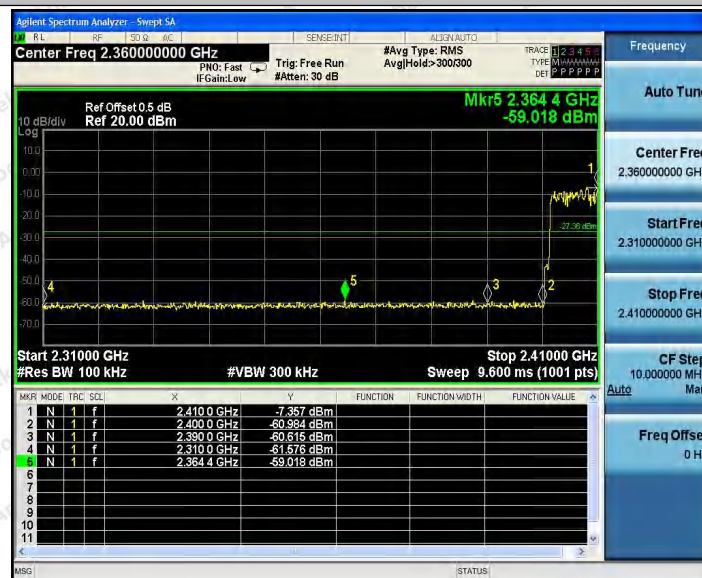
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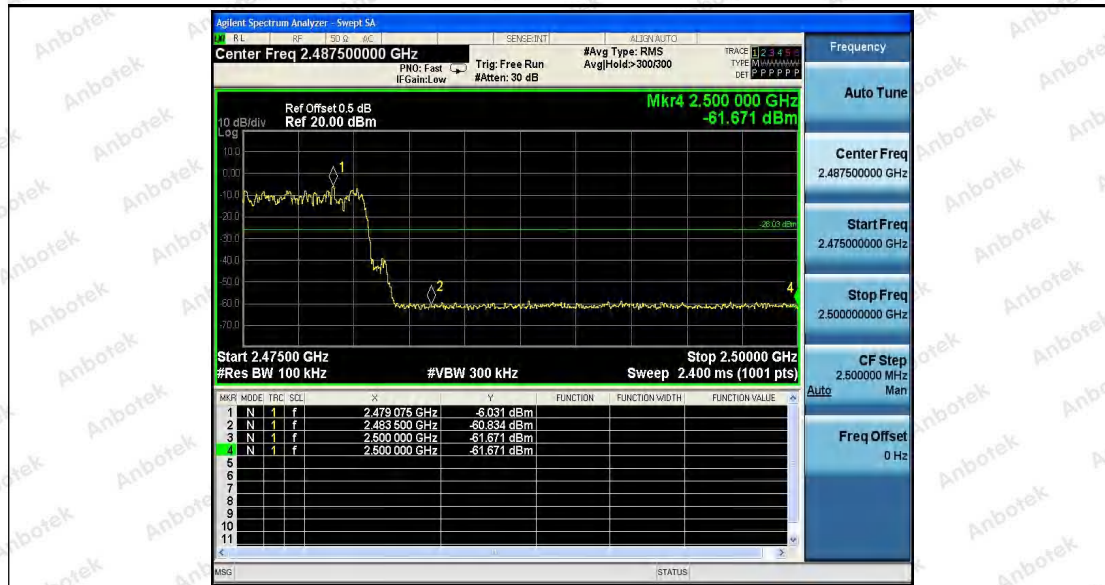
2DH5_Ant1_High_2480



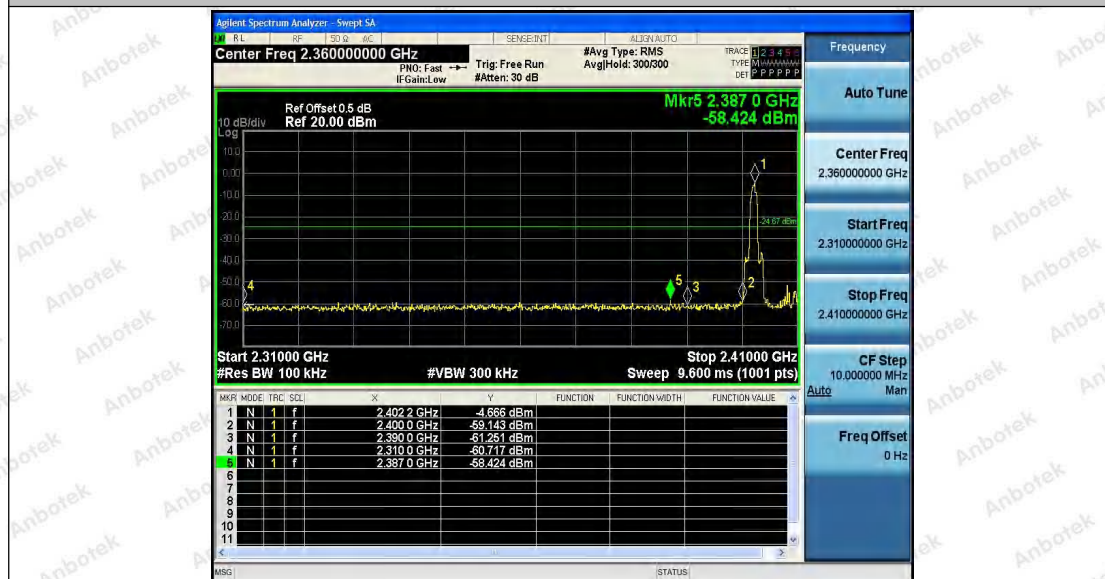
2DH5_Ant1_Low_Hop



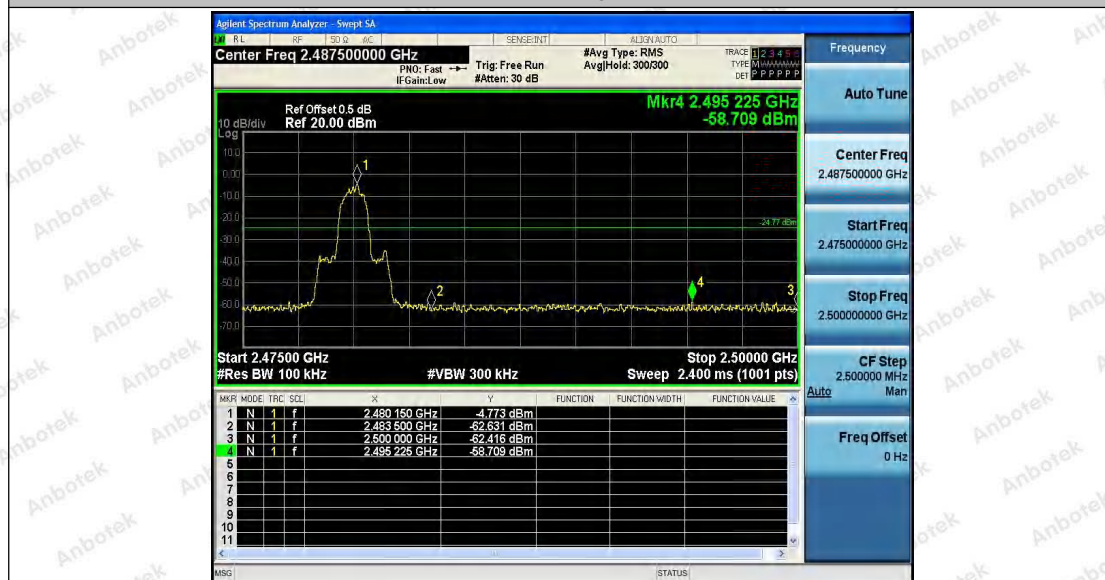
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

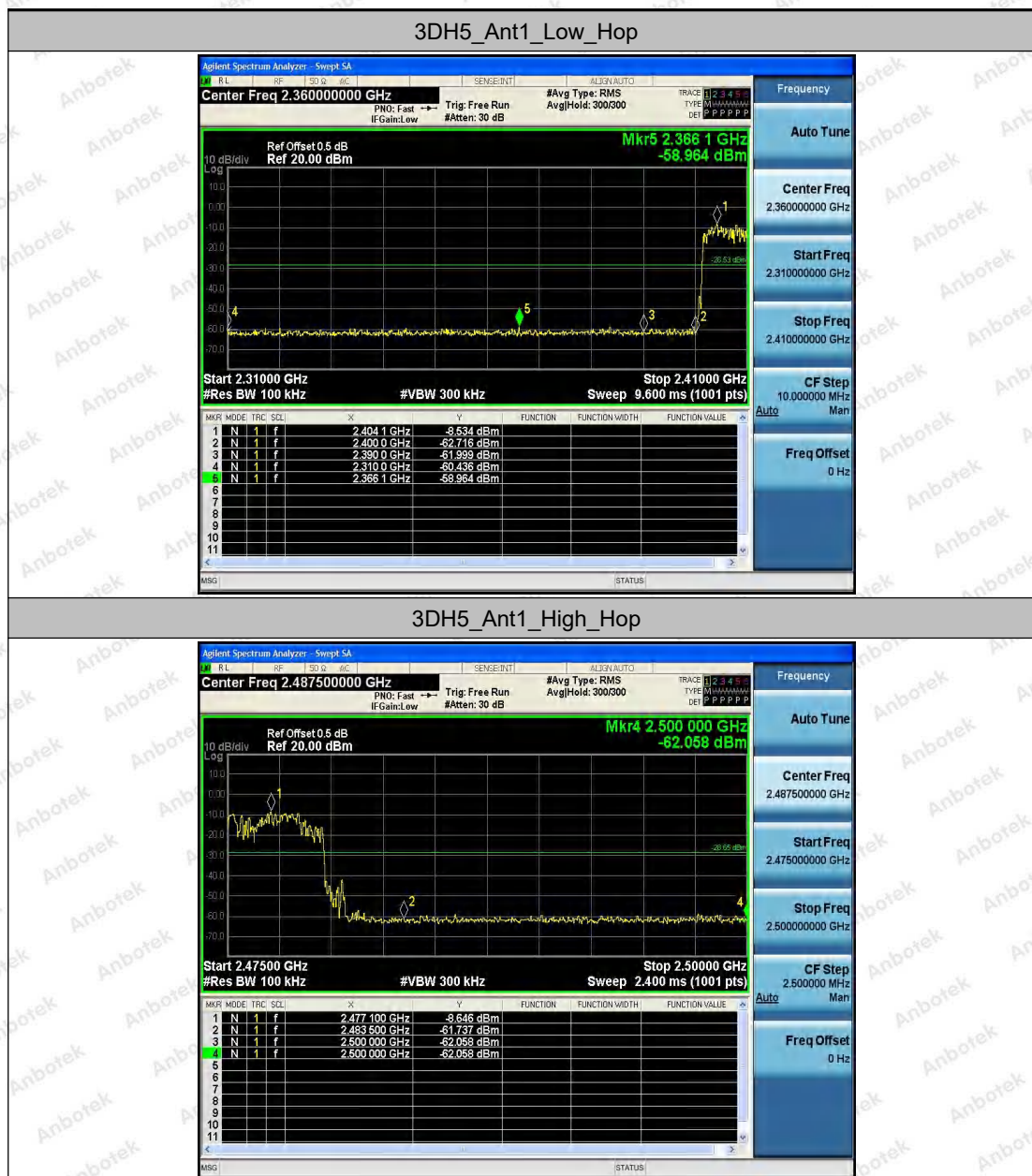


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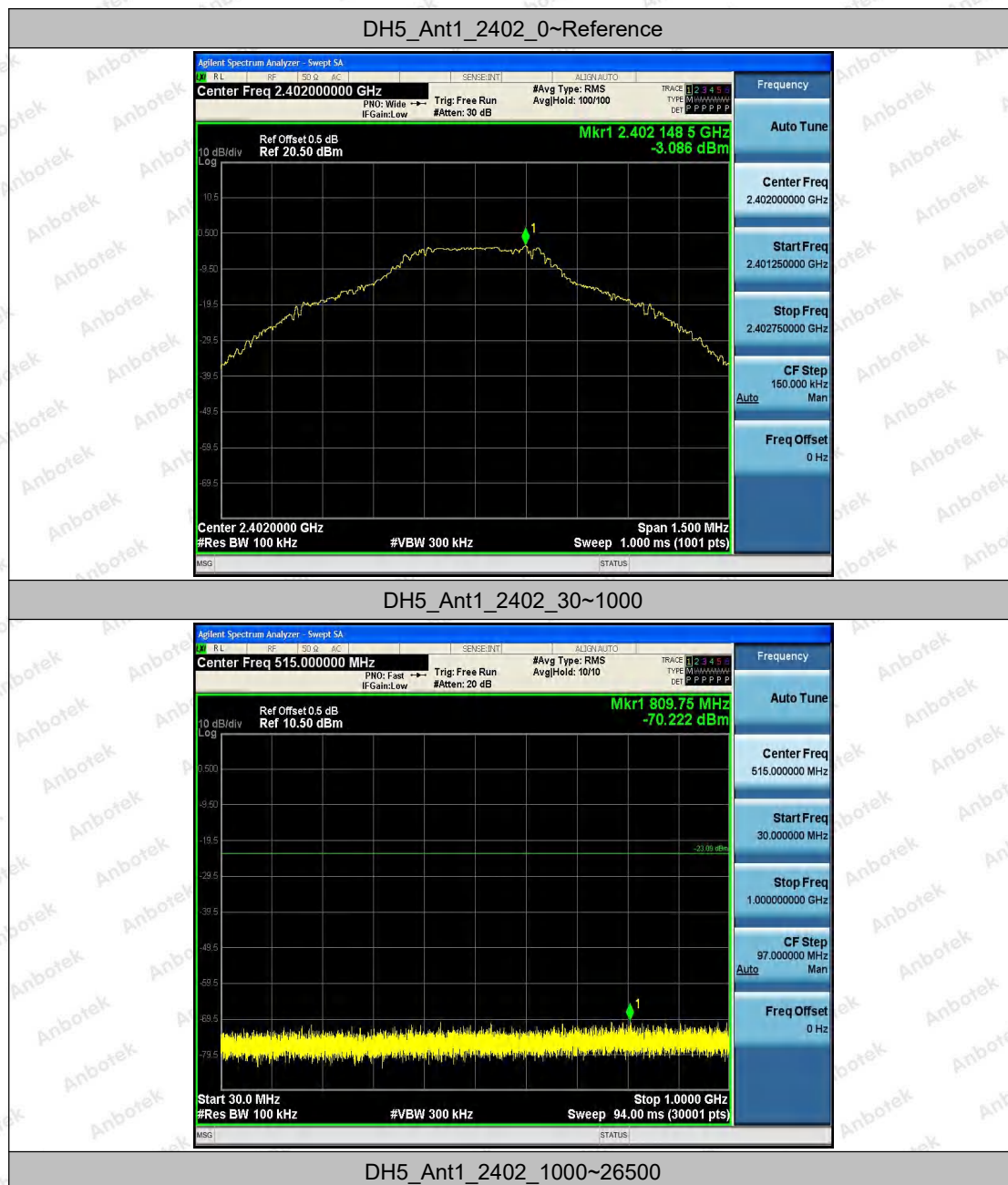


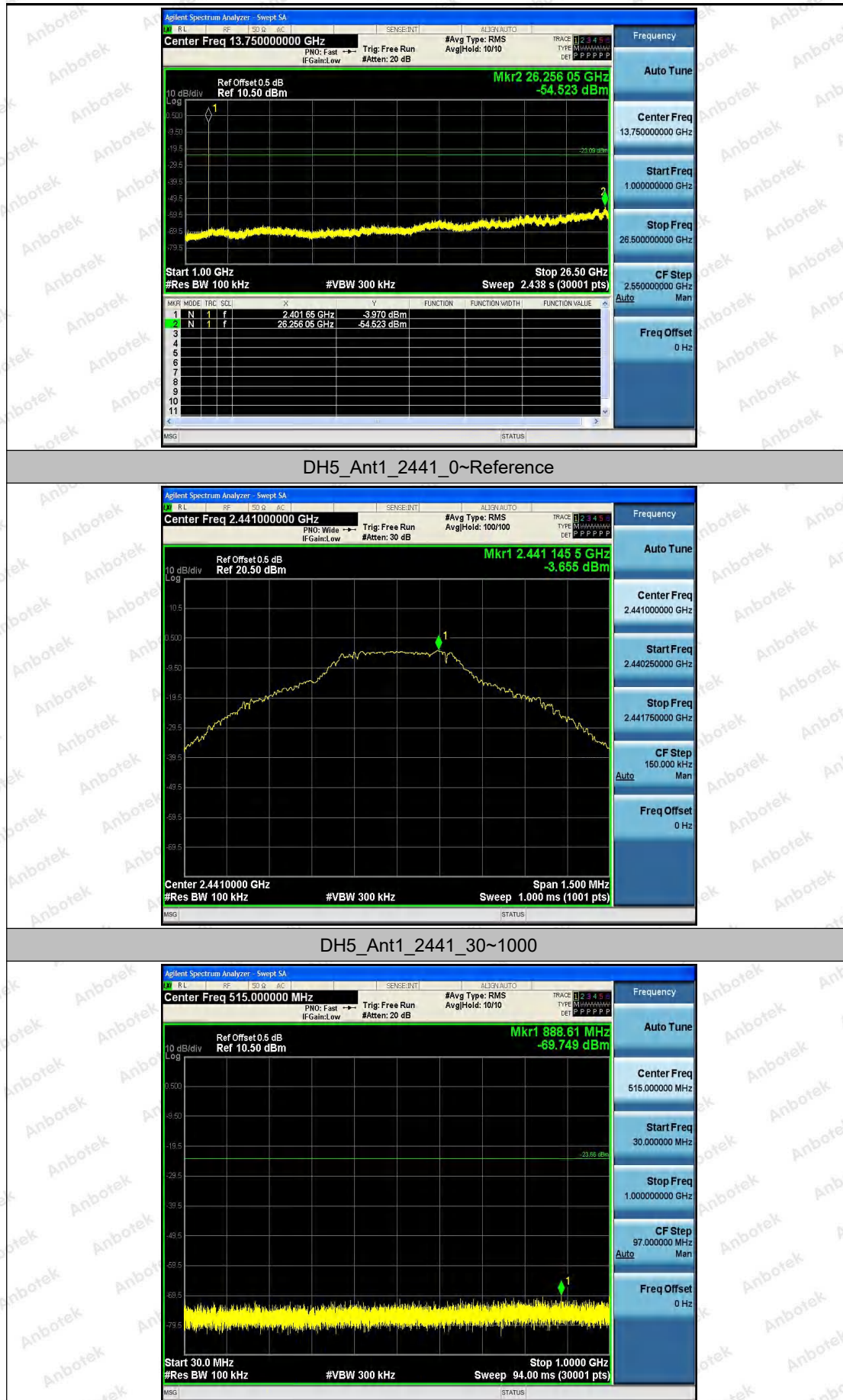
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-70.22	≤-23.09	PASS
			1000~26500	-3.09	-54.52	≤-23.09	PASS
		2441	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-69.75	≤-23.66	PASS
			1000~26500	-3.66	-54.34	≤-23.66	PASS
		2480	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-69.28	≤-23.81	PASS
			1000~26500	-3.81	-54.22	≤-23.81	PASS
2DH5	Ant1	2402	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-70.03	≤-25.06	PASS
			1000~26500	-5.06	-55.11	≤-25.06	PASS
		2441	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-69.45	≤-24.79	PASS
			1000~26500	-4.79	-54.96	≤-24.79	PASS
		2480	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-70.3	≤-25.07	PASS
			1000~26500	-5.07	-54.24	≤-25.07	PASS
3DH5	Ant1	2402	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-62.76	≤-25	PASS
			1000~26500	-5.00	-54.38	≤-25	PASS
		2441	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-69.66	≤-24.56	PASS
			1000~26500	-4.56	-54.3	≤-24.56	PASS
		2480	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-69.61	≤-25.18	PASS
			1000~26500	-5.18	-55.22	≤-25.18	PASS

Test Graphs





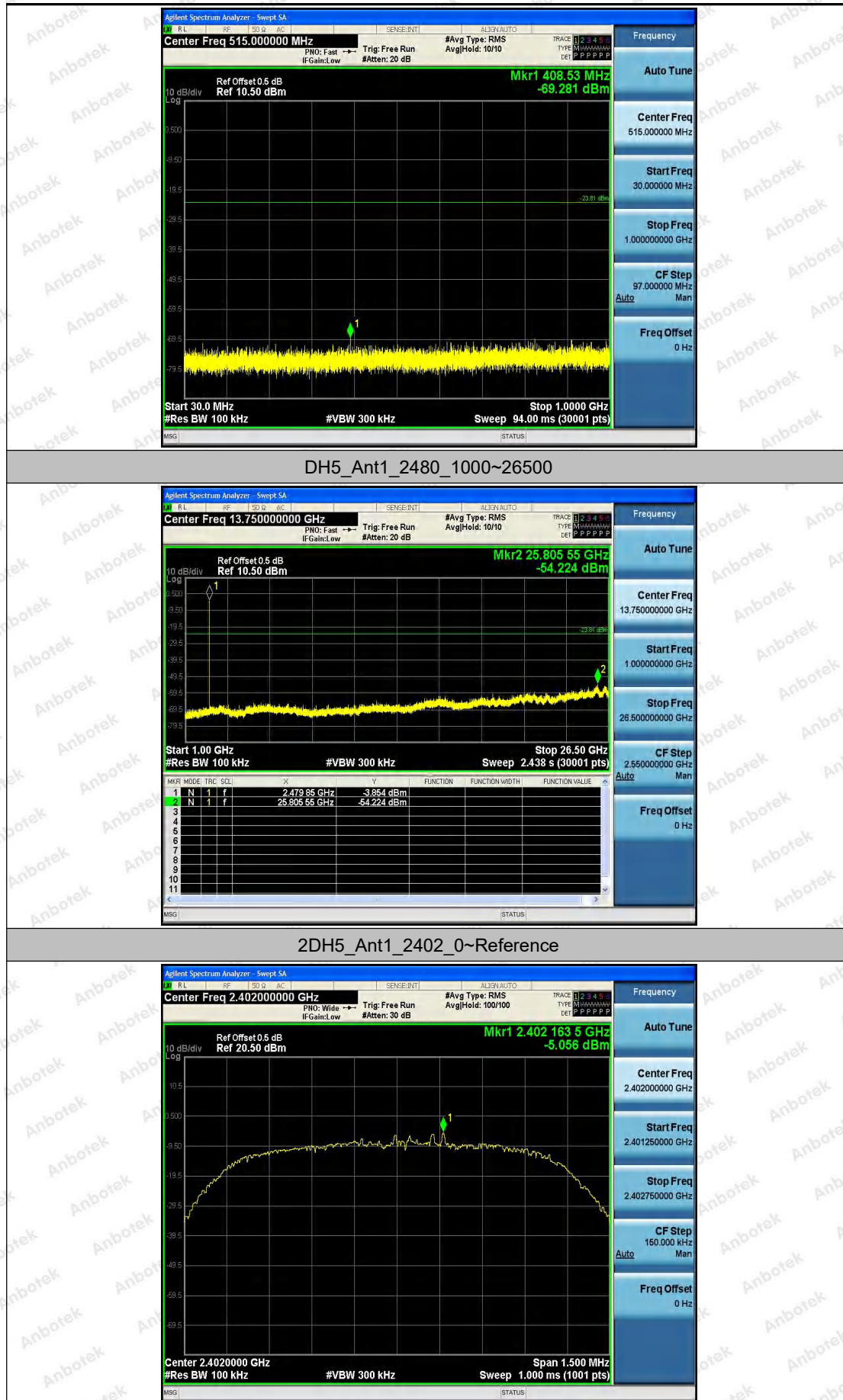
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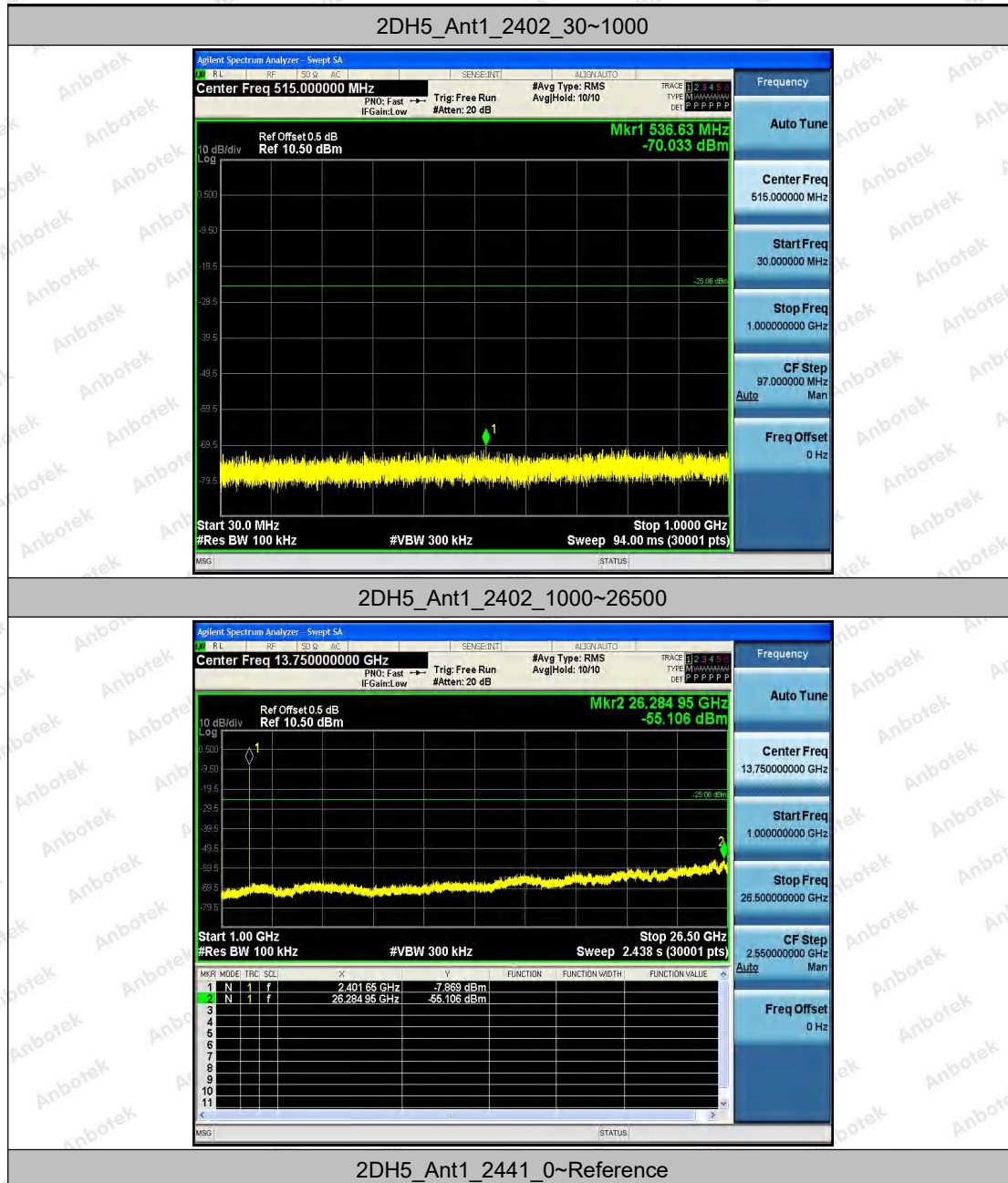


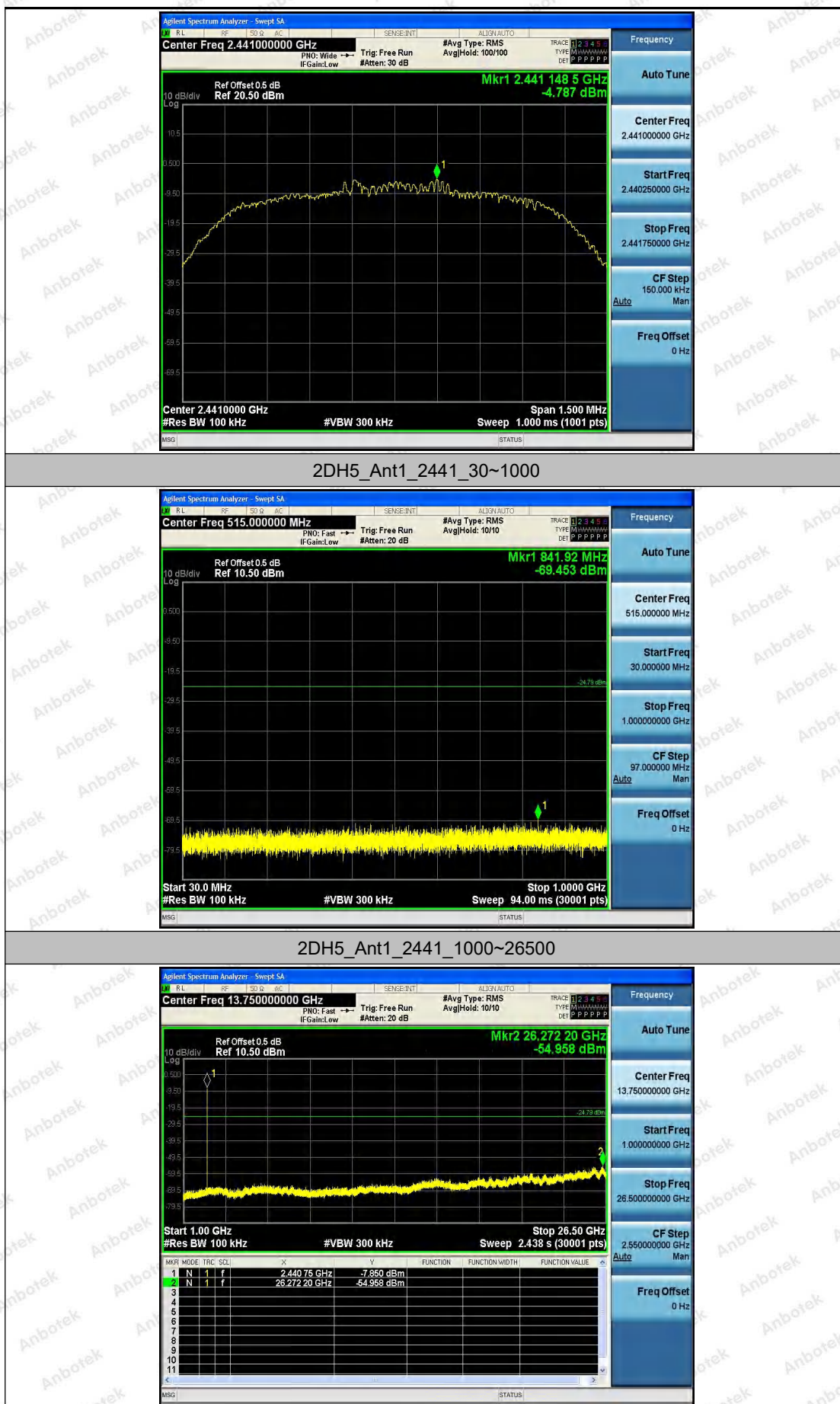
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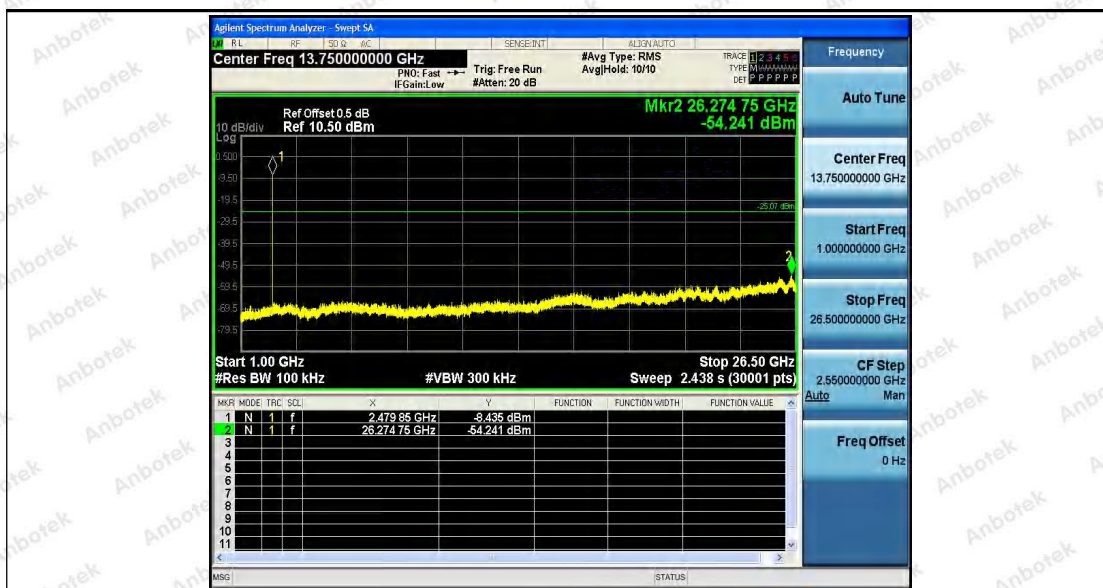


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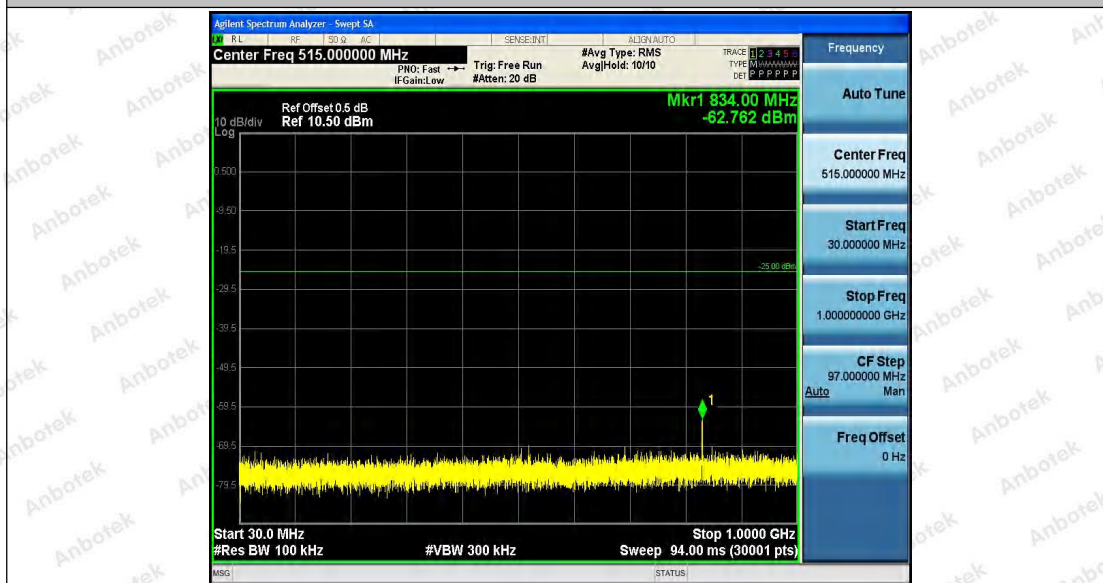




3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



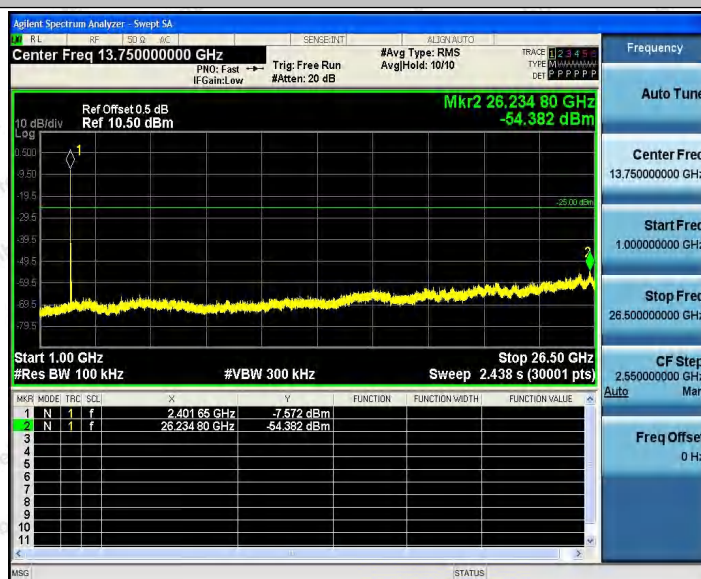
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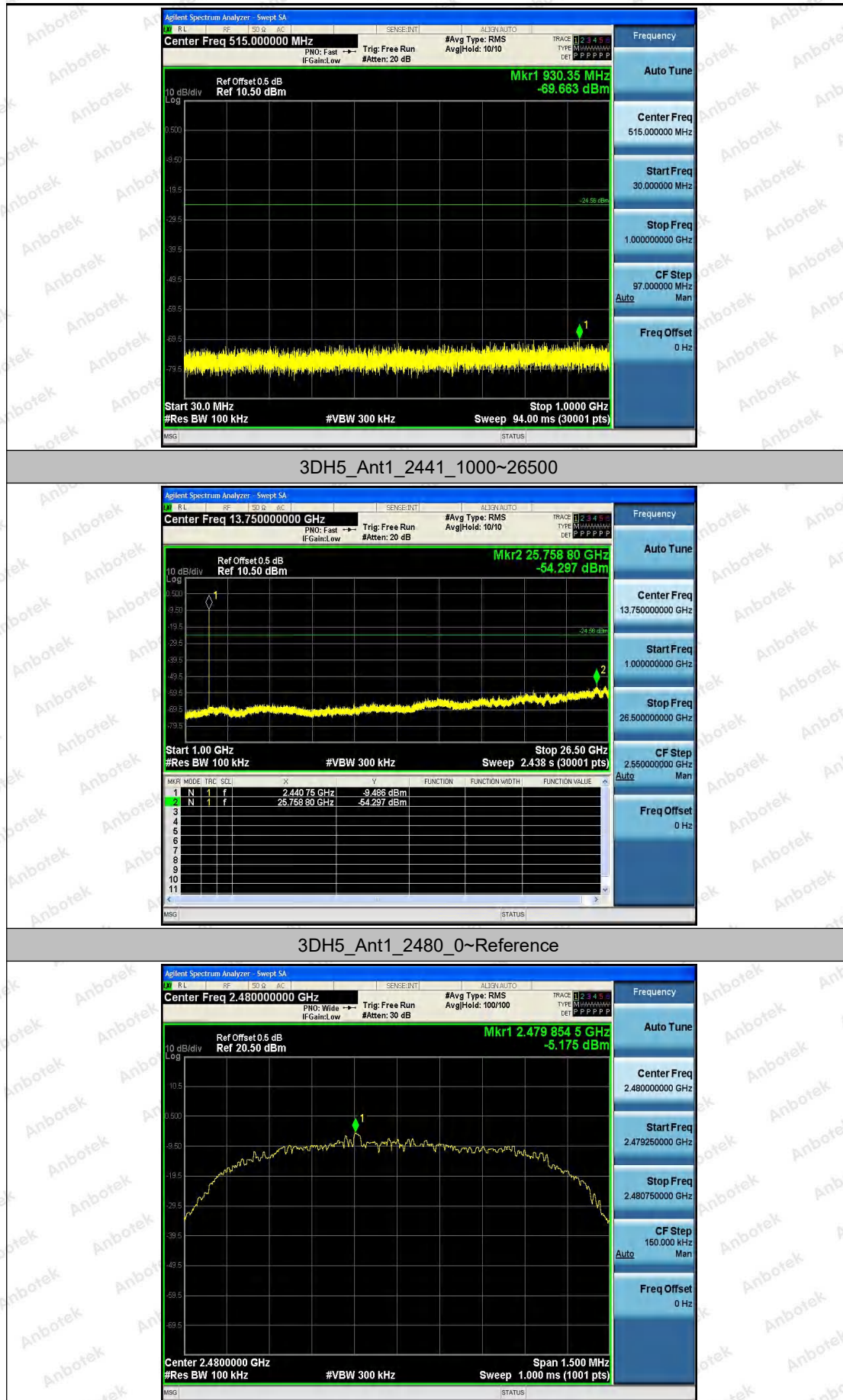
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

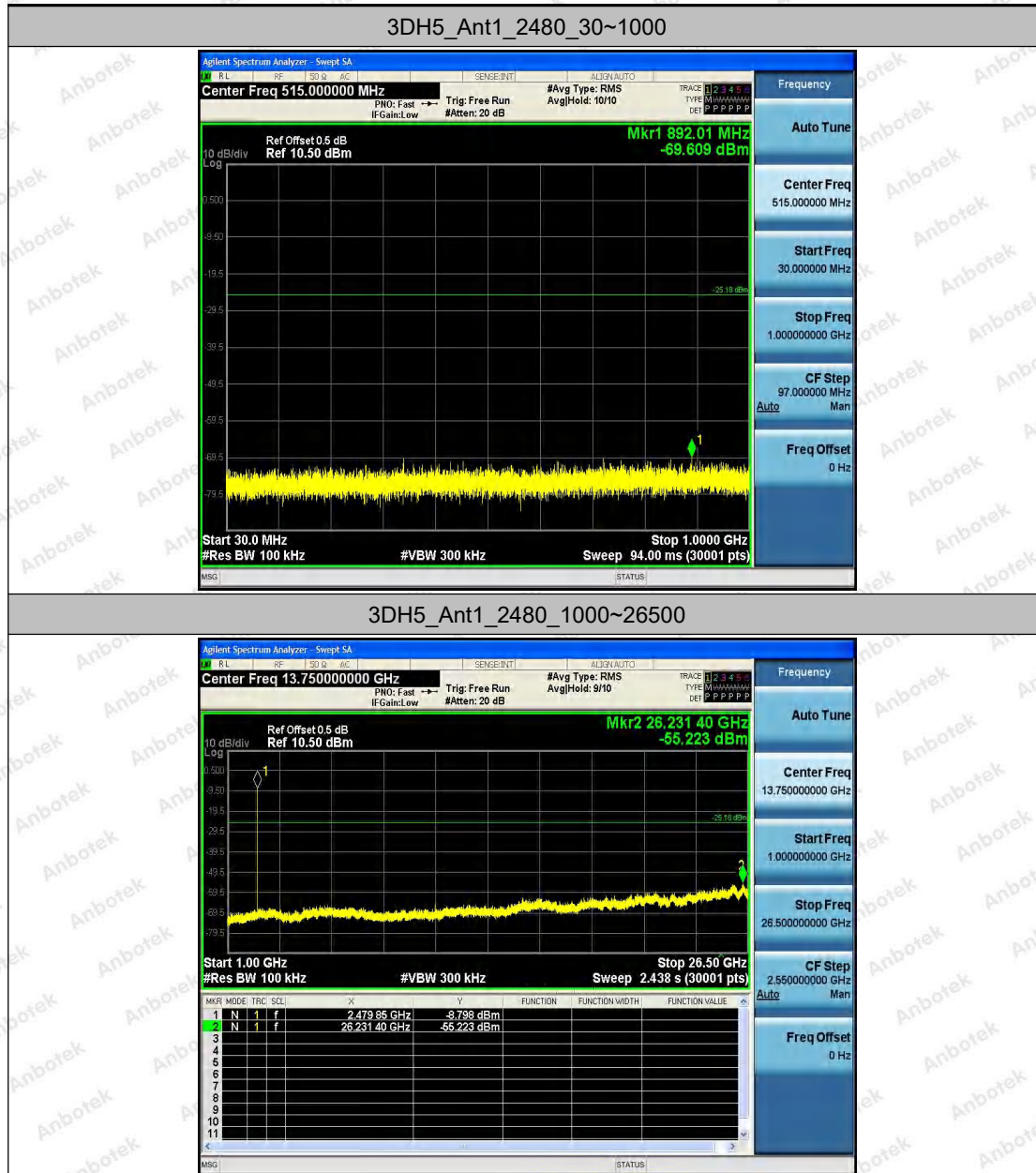


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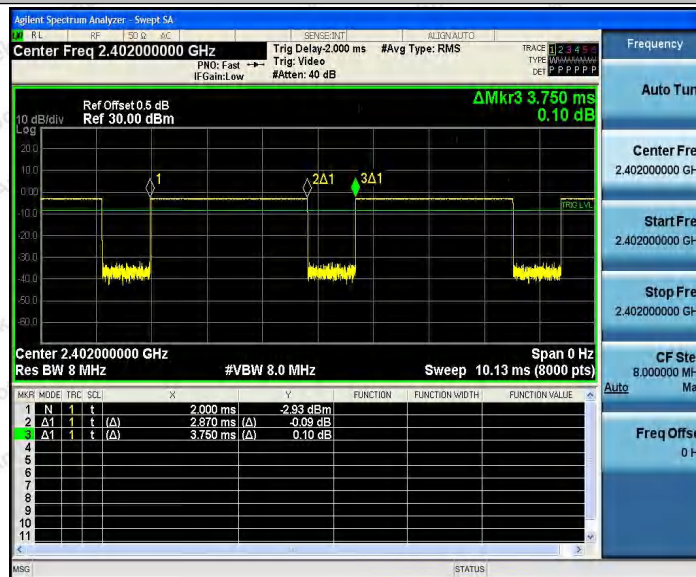
Appendix I: Duty Cycle

Test Result

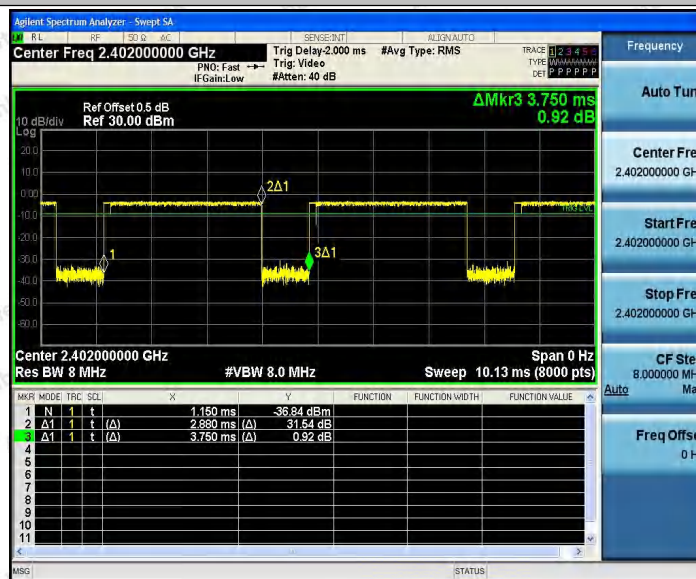
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs

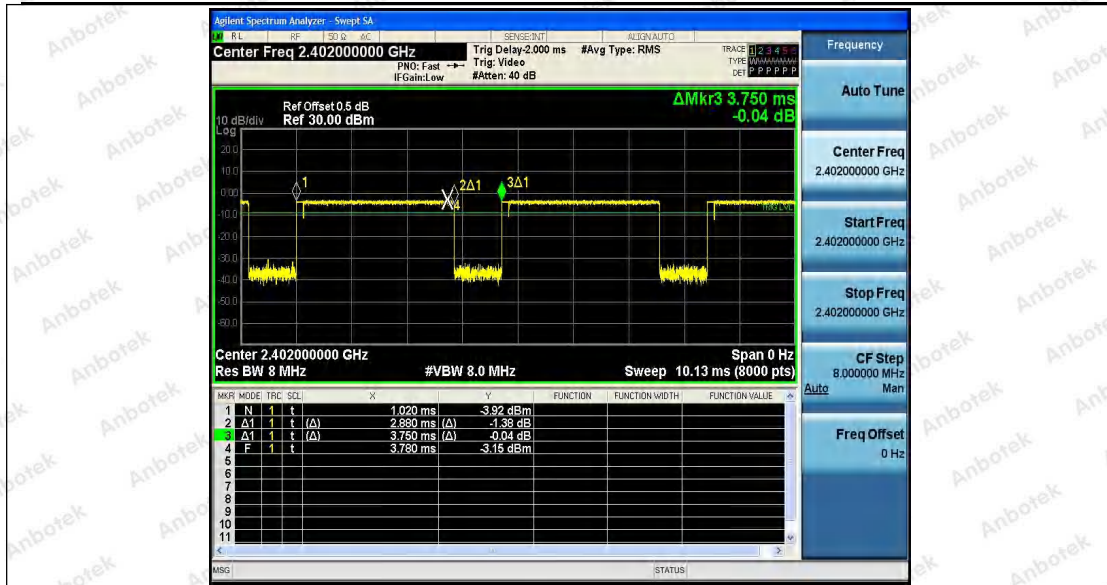
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---