

Appendix Test Data

Report No.:	18220WC20086201	Test Sample No.:	1-2-2
Start Test Date:	2022.4.21	Finish Test Date:	2022.4.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57 %
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	0.939	2440.541	2441.480	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.269	2401.367	2402.636	---	PASS
		2441	1.320	2440.340	2441.660	---	PASS
		2480	1.263	2479.367	2480.630	---	PASS
3DH5	Ant1	2402	1.341	2401.328	2402.669	---	PASS
		2441	1.269	2440.361	2441.630	---	PASS
		2480	1.296	2479.349	2480.645	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



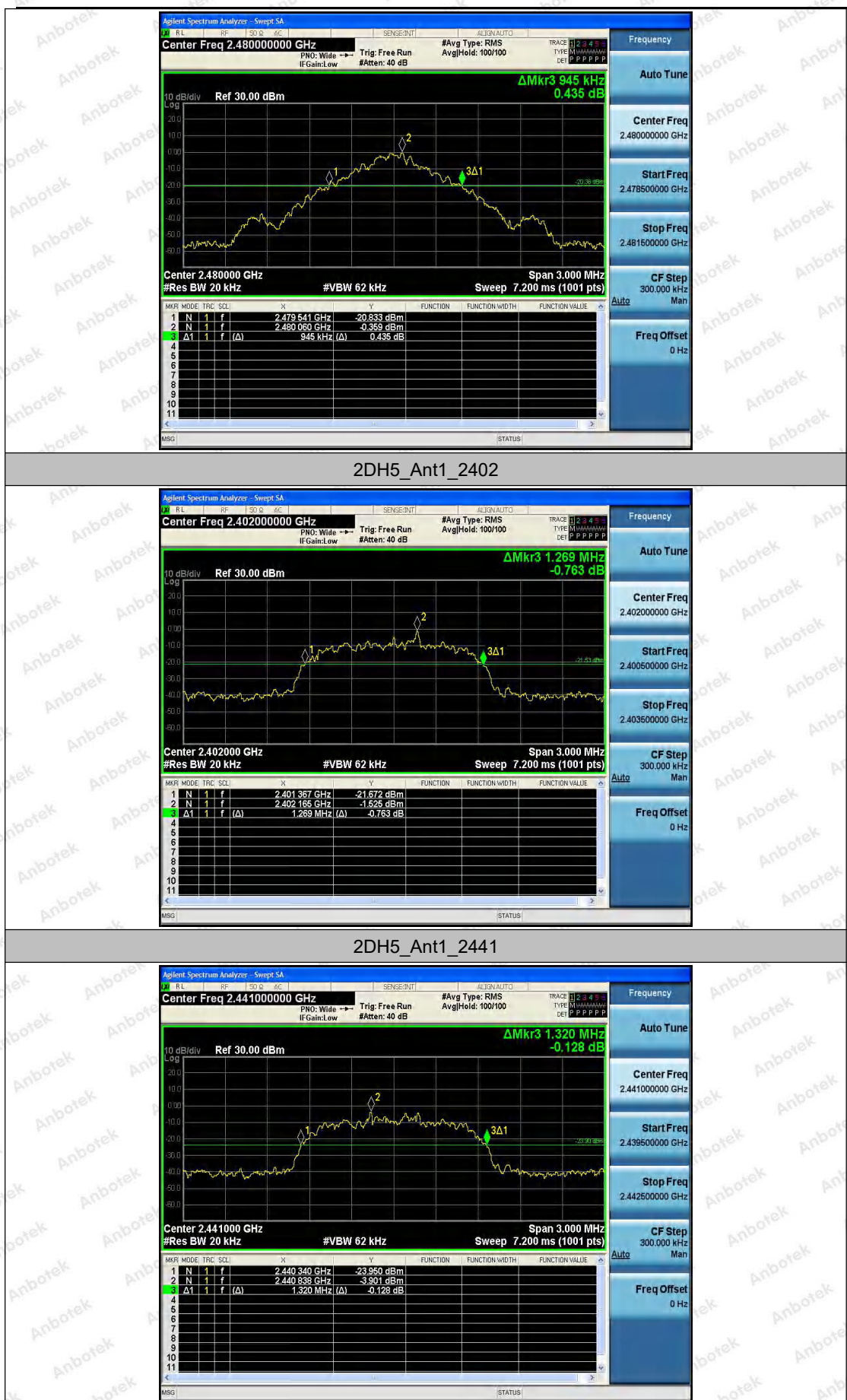
DH5_Ant1_2480

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2DH5_Ant1_2480



3DH5_Ant1_2402



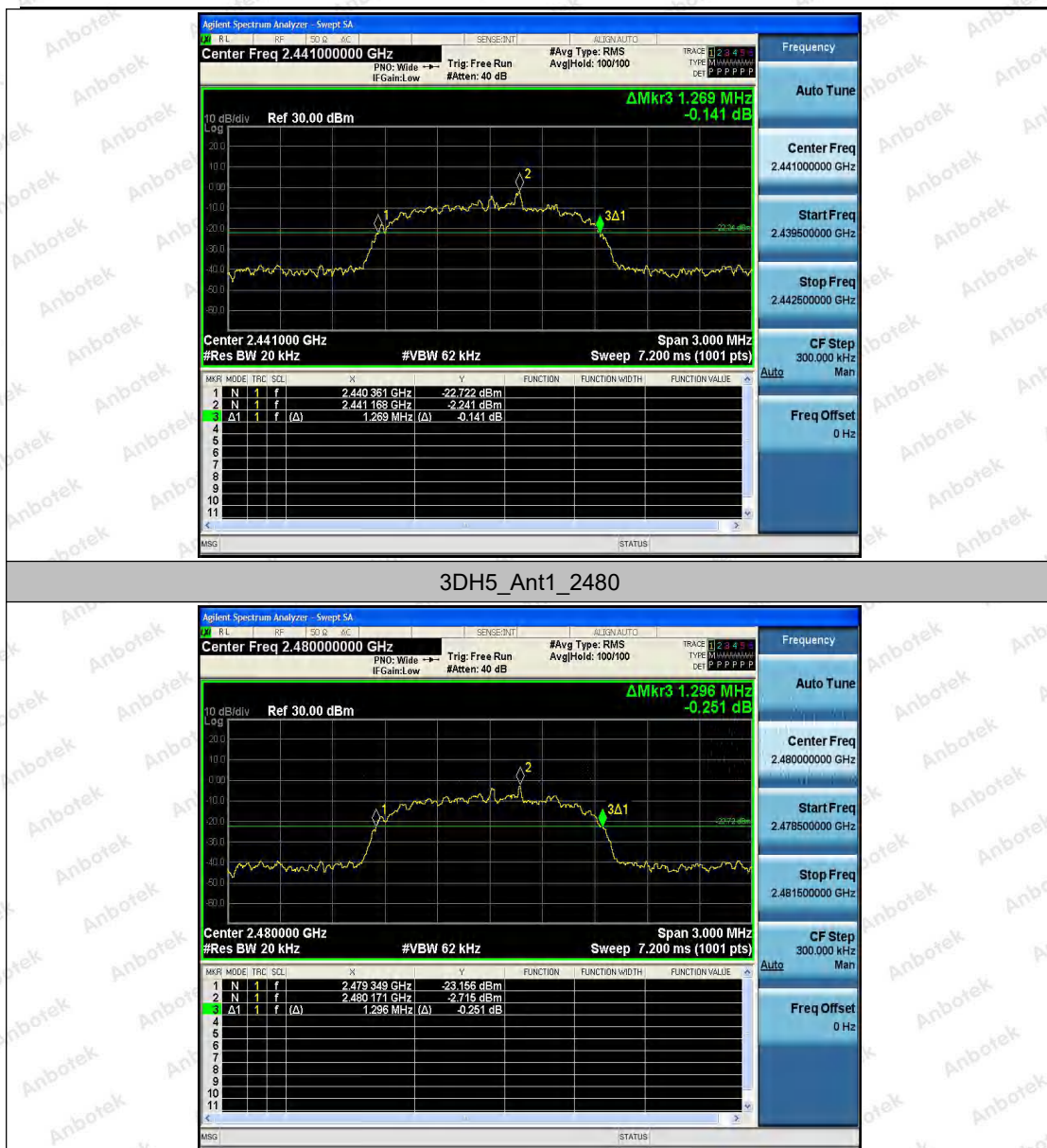
3DH5_Ant1_2441

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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	0.89053	2401.55 8	2402.449	---	PASS
		2441	0.88906	2440.56 0	2441.449	---	PASS
		2480	0.89317	2479.55 7	2480.450	---	PASS
2DH5	Ant1	2402	1.1973	2401.40 3	2402.600	---	PASS
		2441	1.1945	2440.40 4	2441.599	---	PASS
		2480	1.1923	2479.40 5	2480.597	---	PASS
3DH5	Ant1	2402	1.2099	2401.38 7	2402.597	---	PASS
		2441	1.2120	2440.38 7	2441.599	---	PASS
		2480	1.2035	2479.39 2	2480.595	---	PASS

Test Graphs

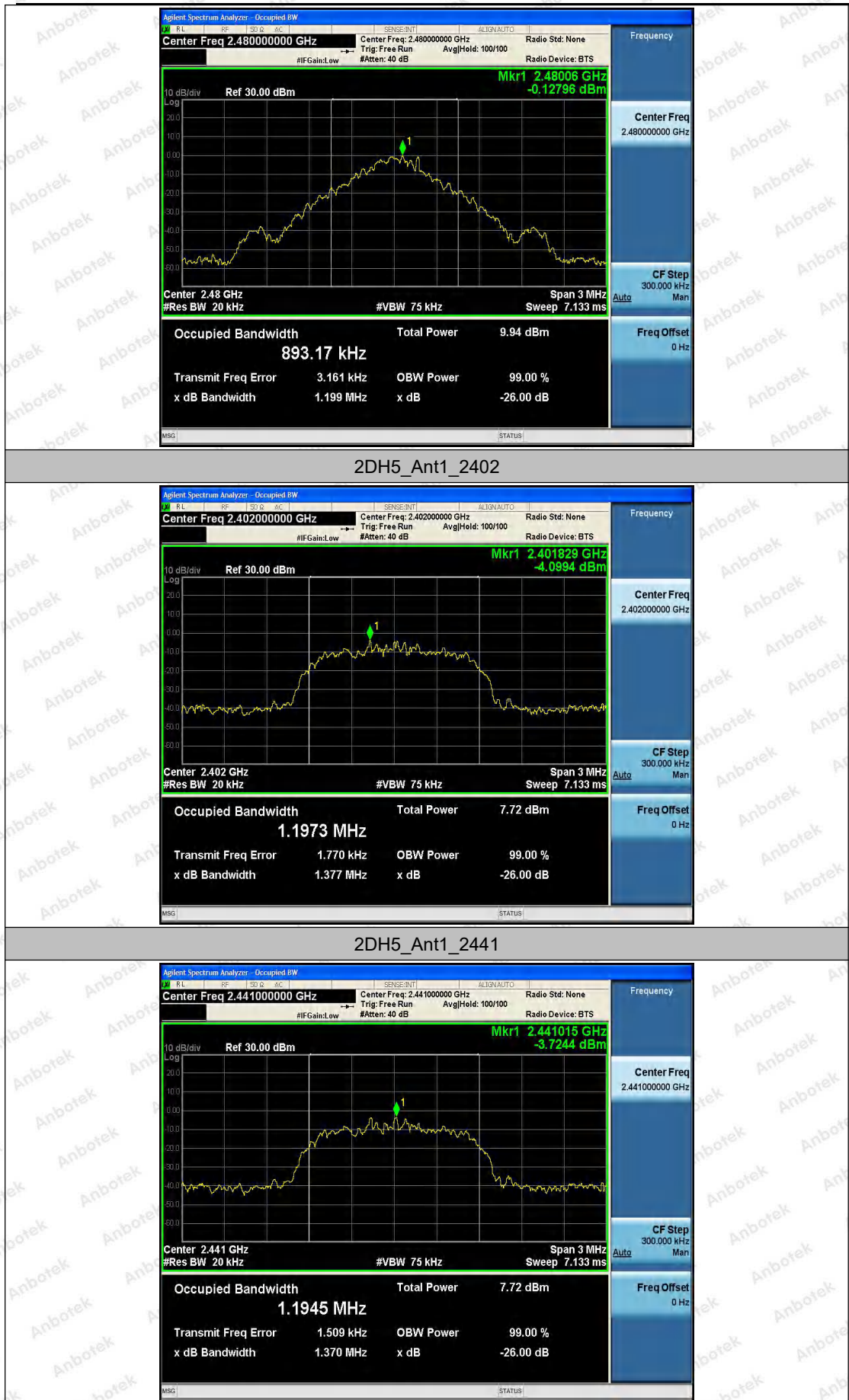


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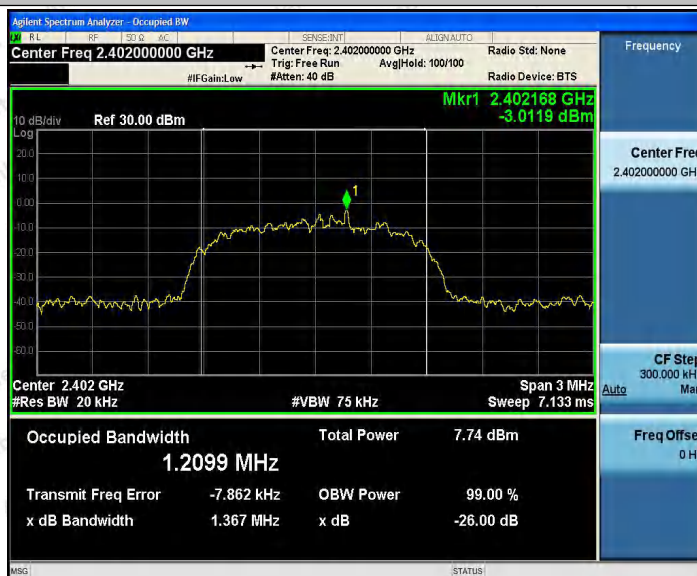
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2DH5_Ant1_2480



3DH5_Ant1_2402



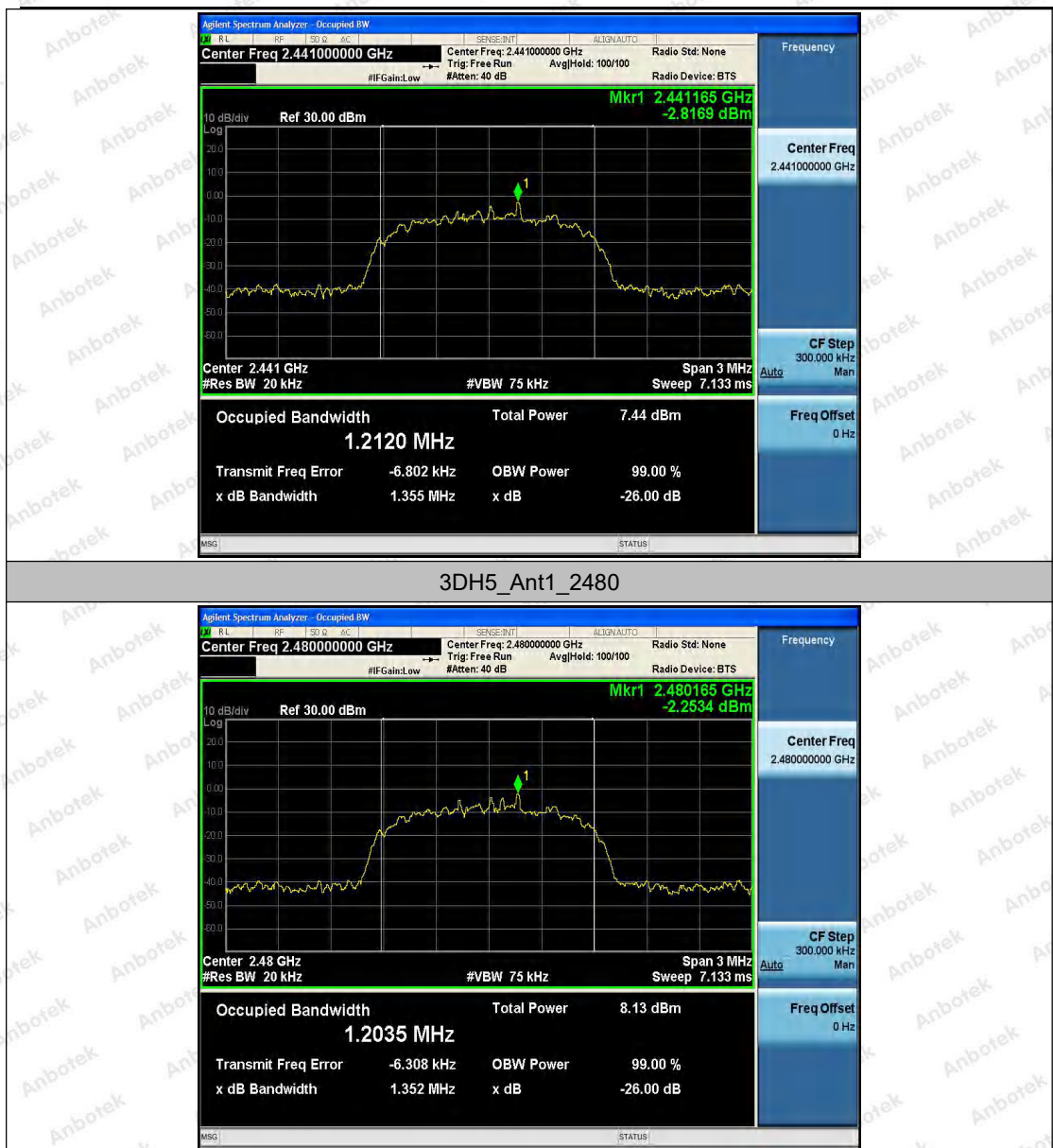
3DH5_Ant1_2441

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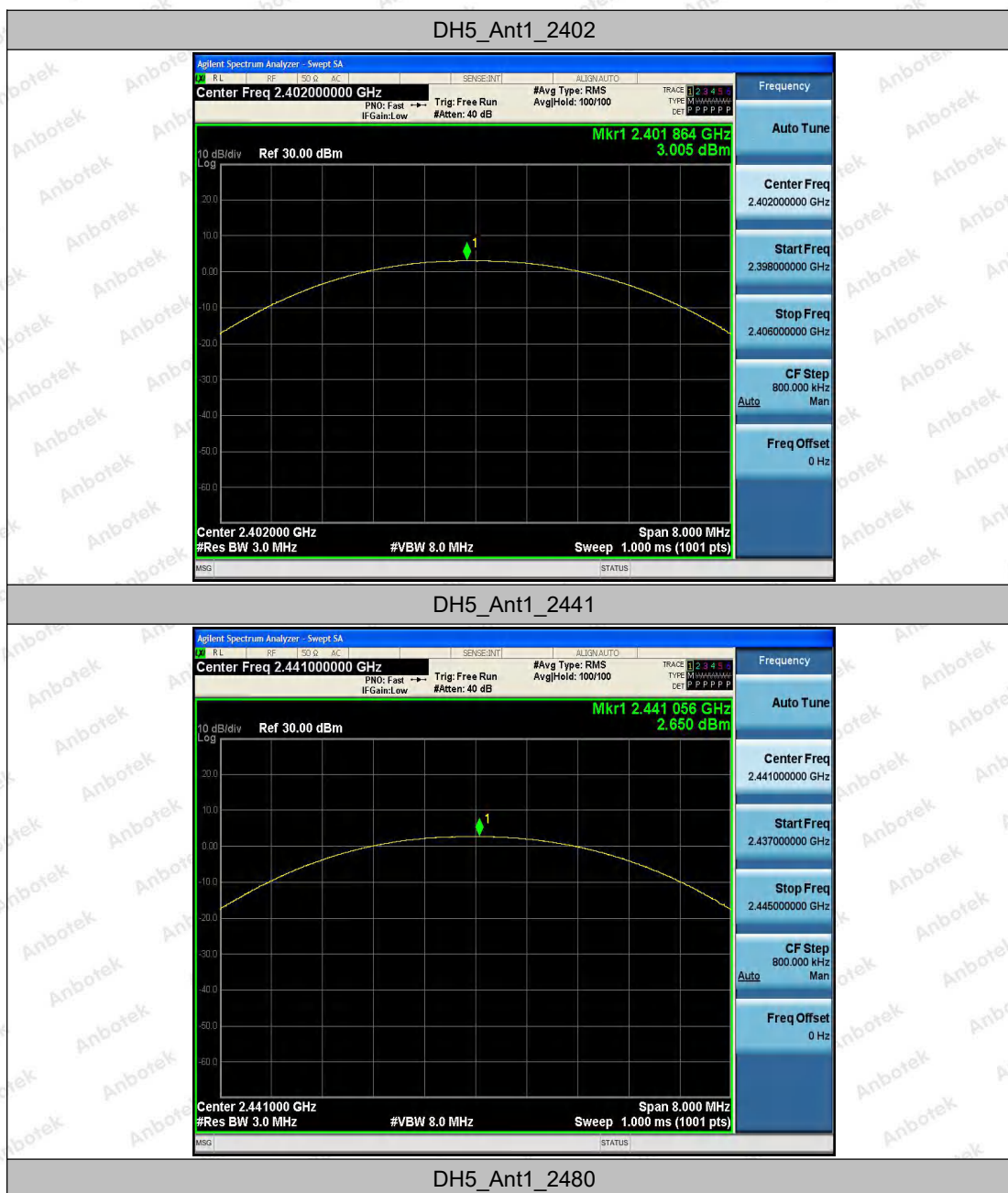


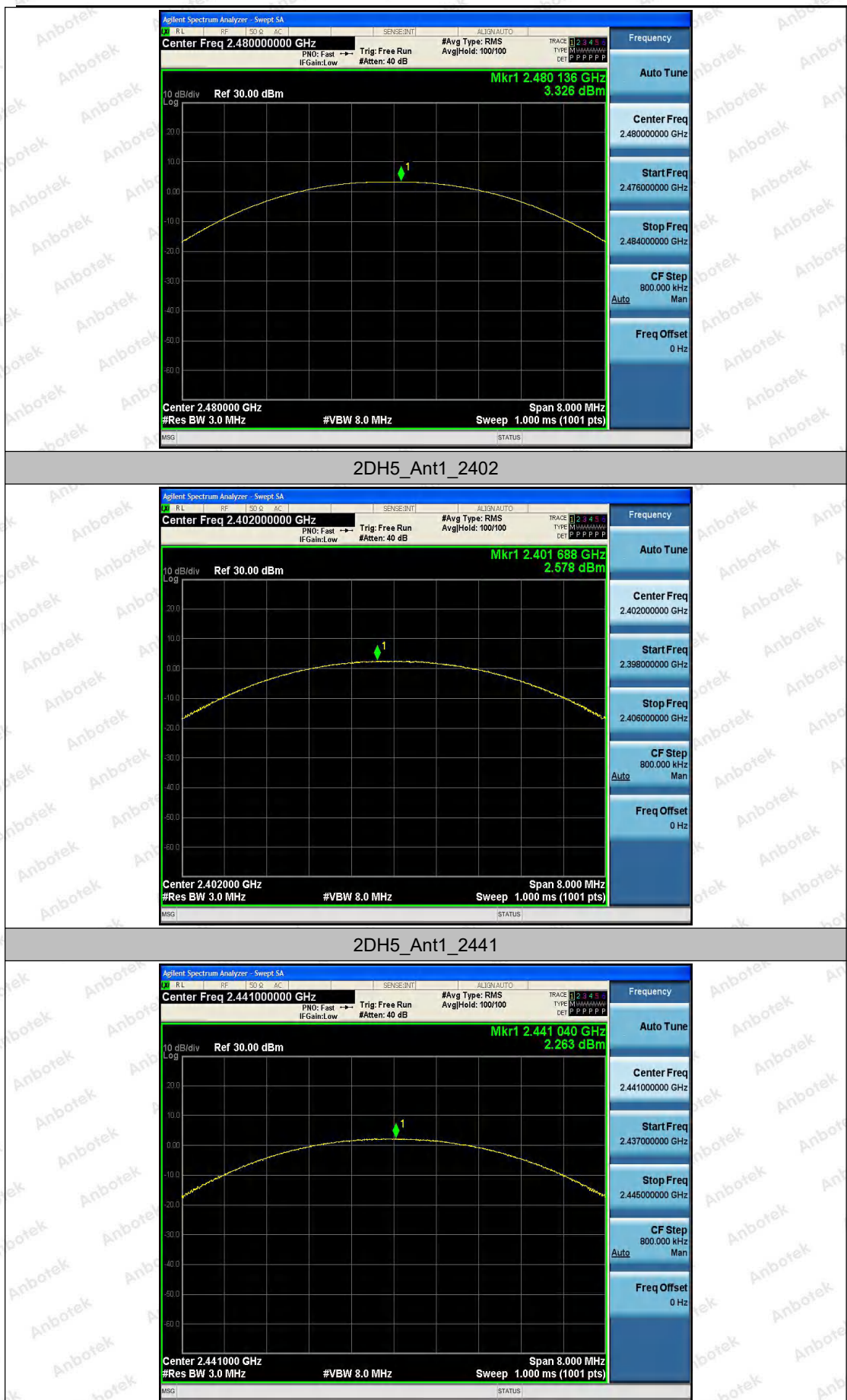
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.01	≤20.97	PASS
		2441	2.65	≤20.97	PASS
		2480	3.33	≤20.97	PASS
2DH5	Ant1	2402	2.58	≤20.97	PASS
		2441	2.26	≤20.97	PASS
		2480	2.89	≤20.97	PASS
3DH5	Ant1	2402	2.69	≤20.97	PASS
		2441	2.36	≤20.97	PASS
		2480	3.04	≤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

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.93	≥ 0.630	PASS
2DH5	Ant1	Hop	1.136	≥ 0.880	PASS
3DH5	Ant1	Hop	0.978	≥ 0.894	PASS

Test Graphs



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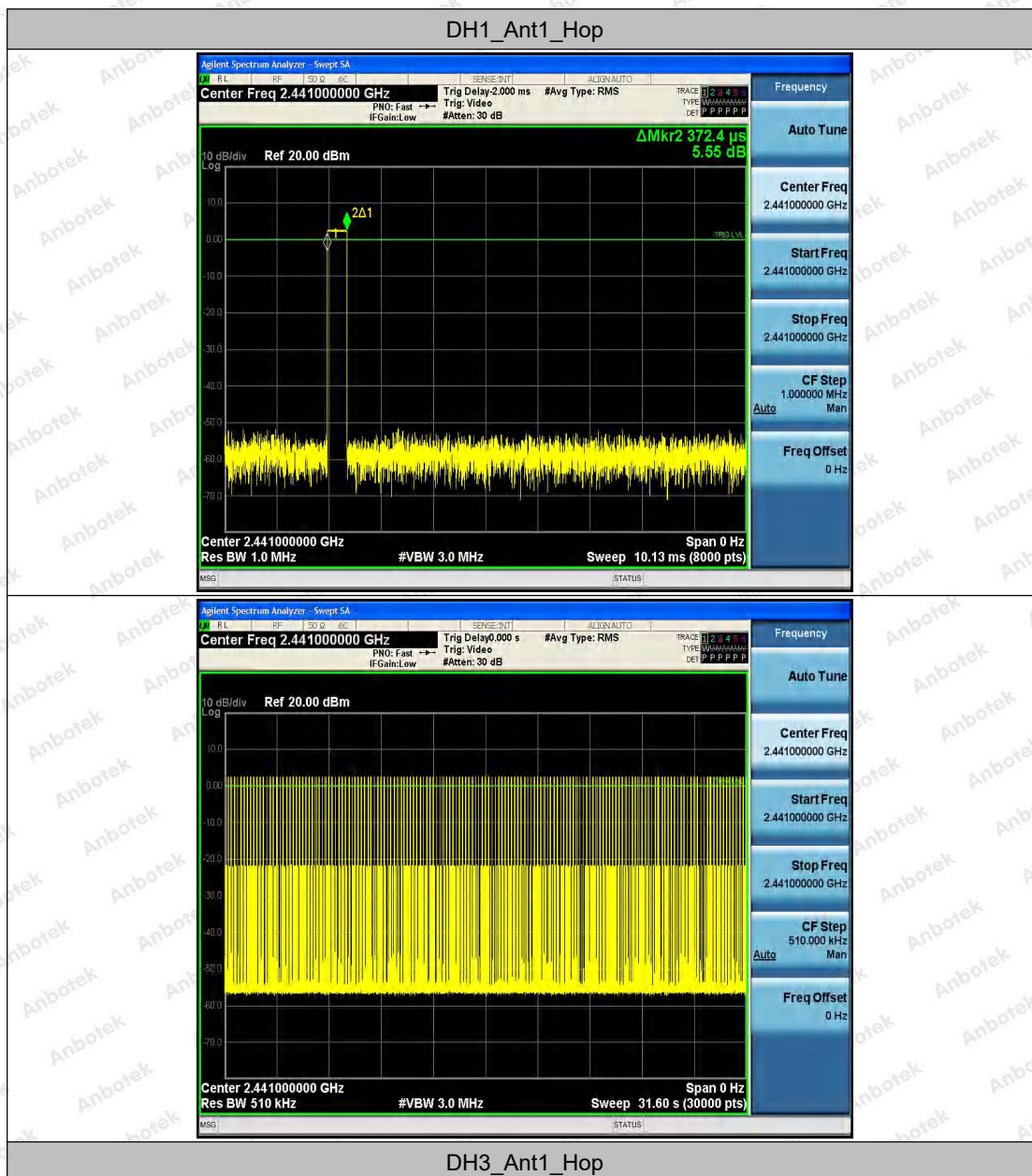
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Appendix E: Time of occupancy

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	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

Test Graphs



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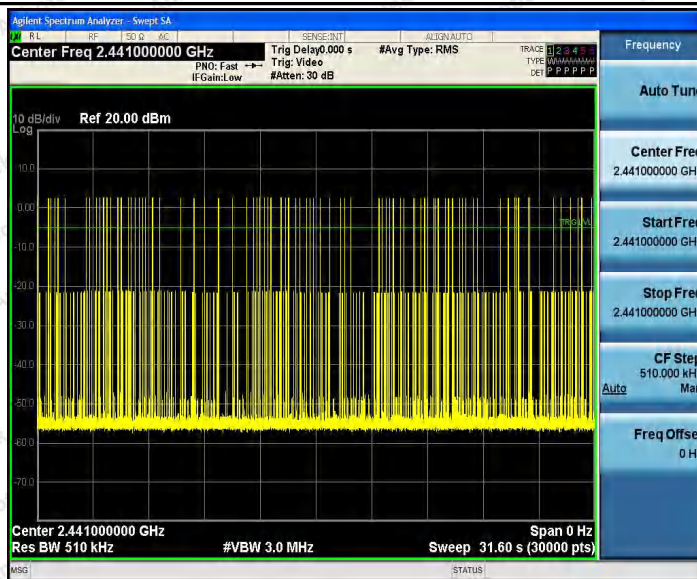


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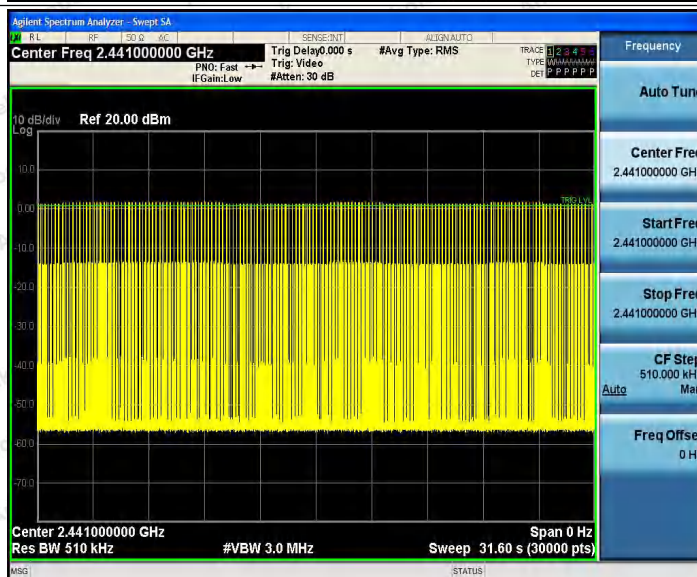
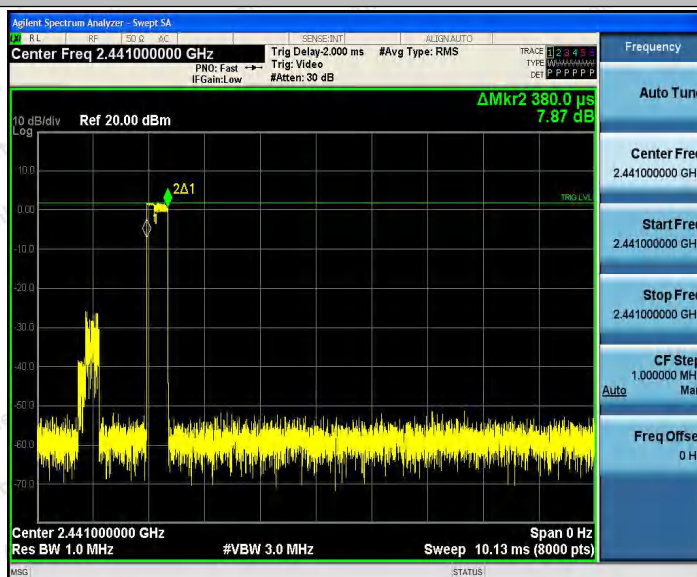
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2DH1_Ant1_Hop



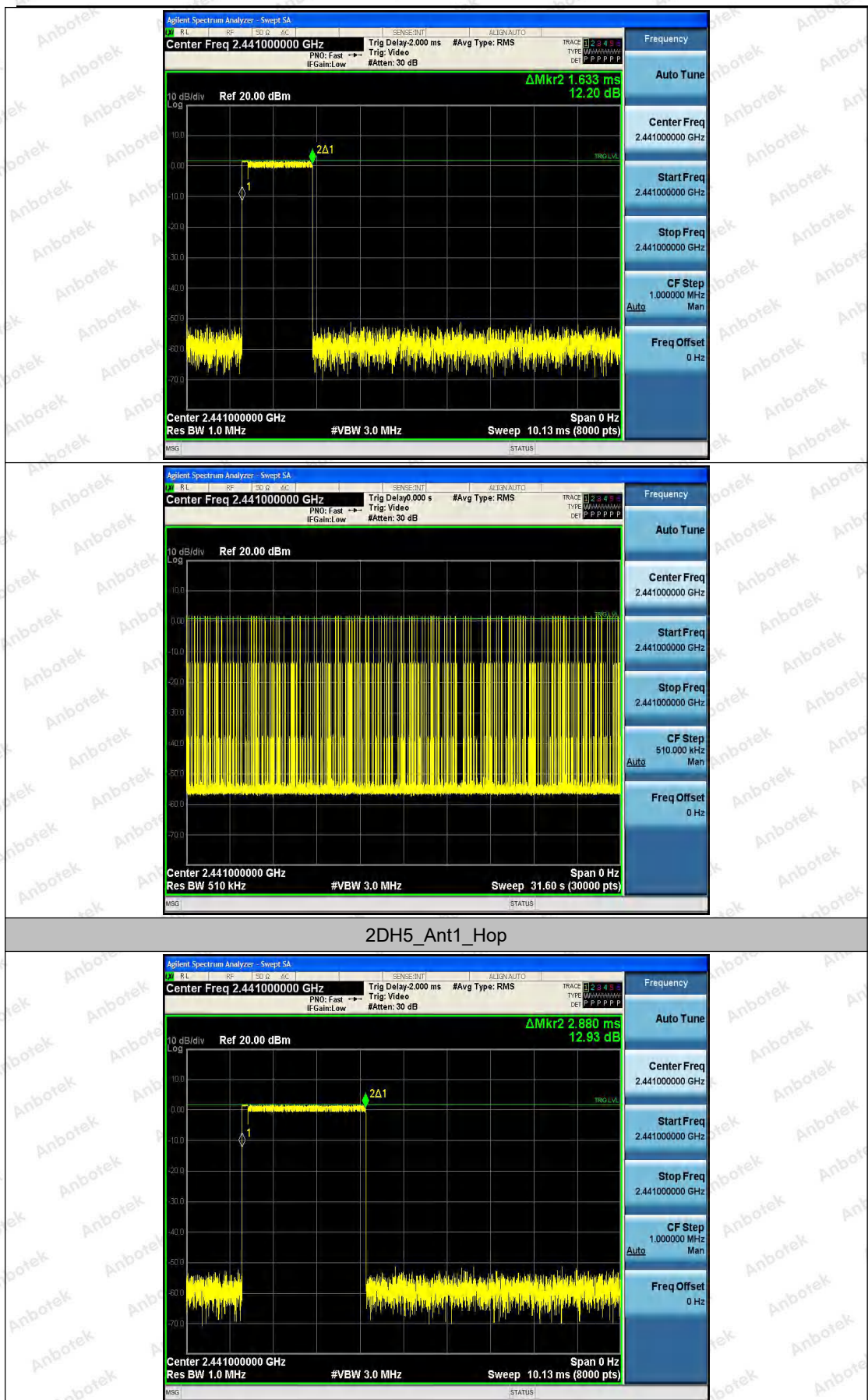
2DH3_Ant1_Hop

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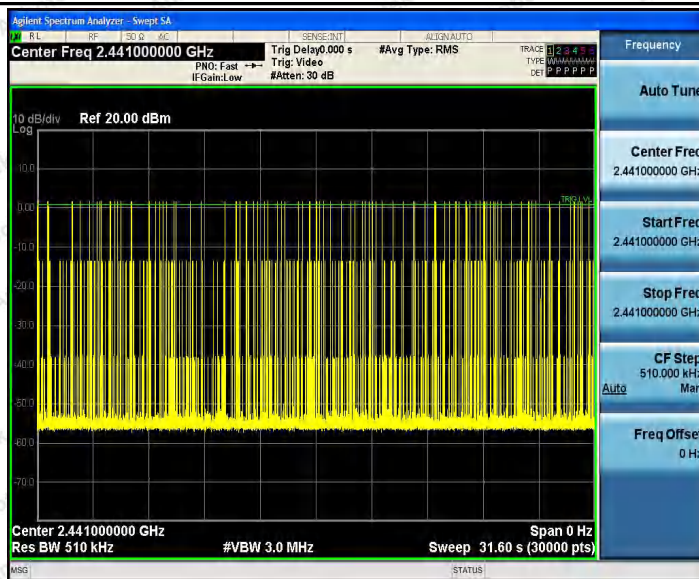
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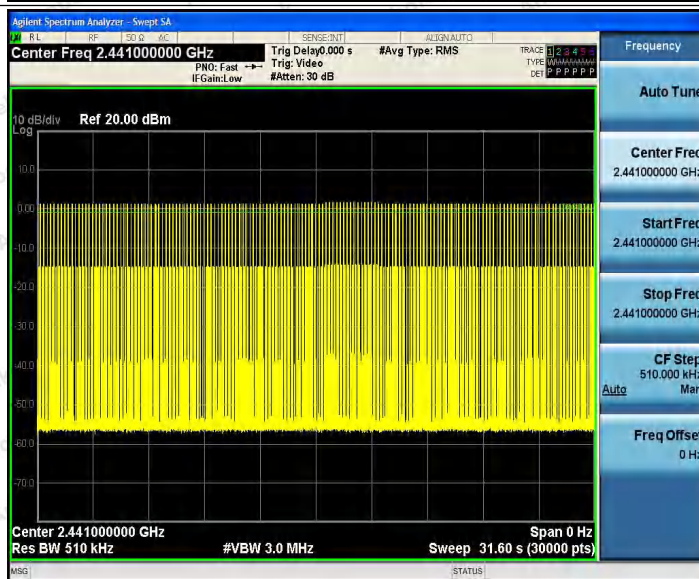
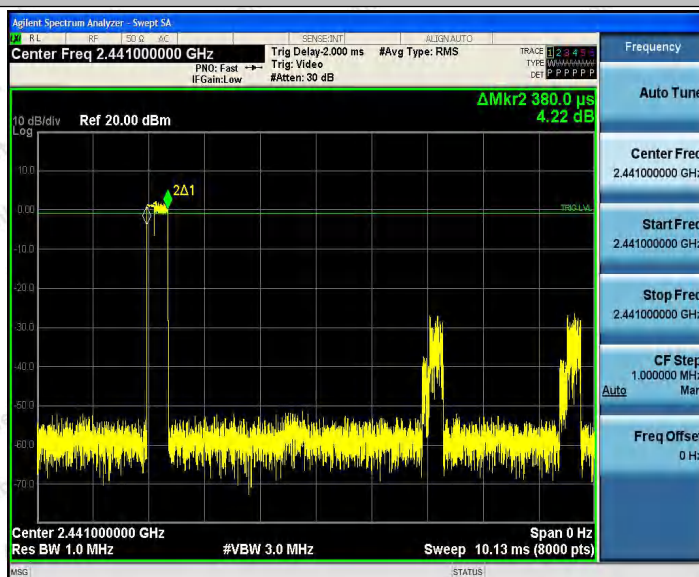
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3DH1_Ant1_Hop



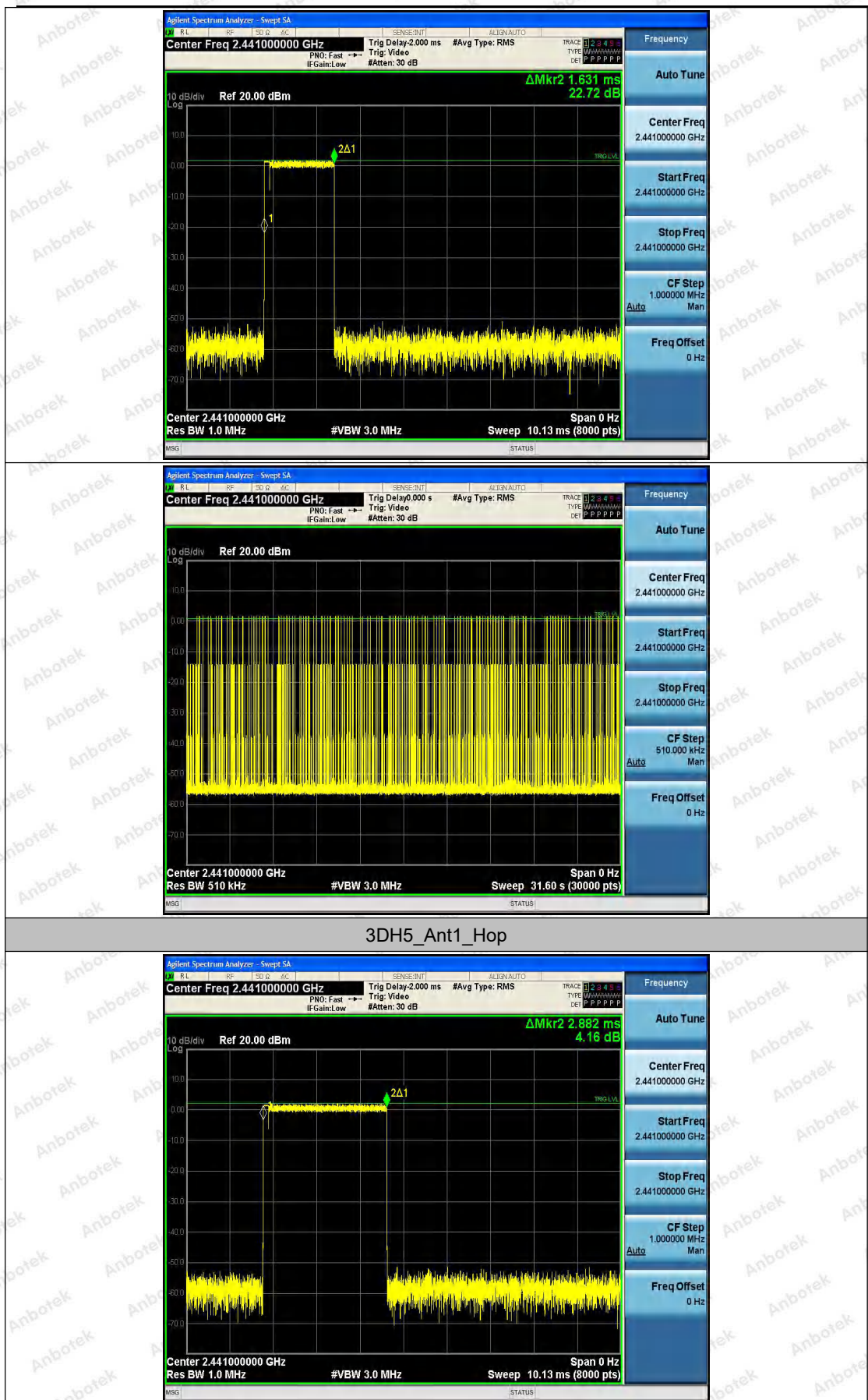
3DH3_Ant1_Hop

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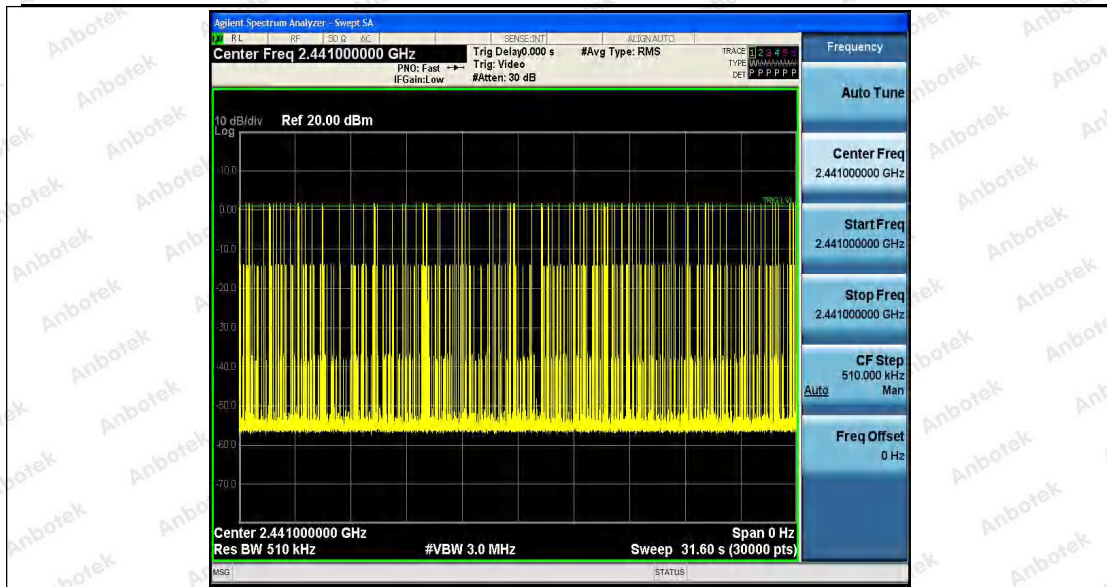


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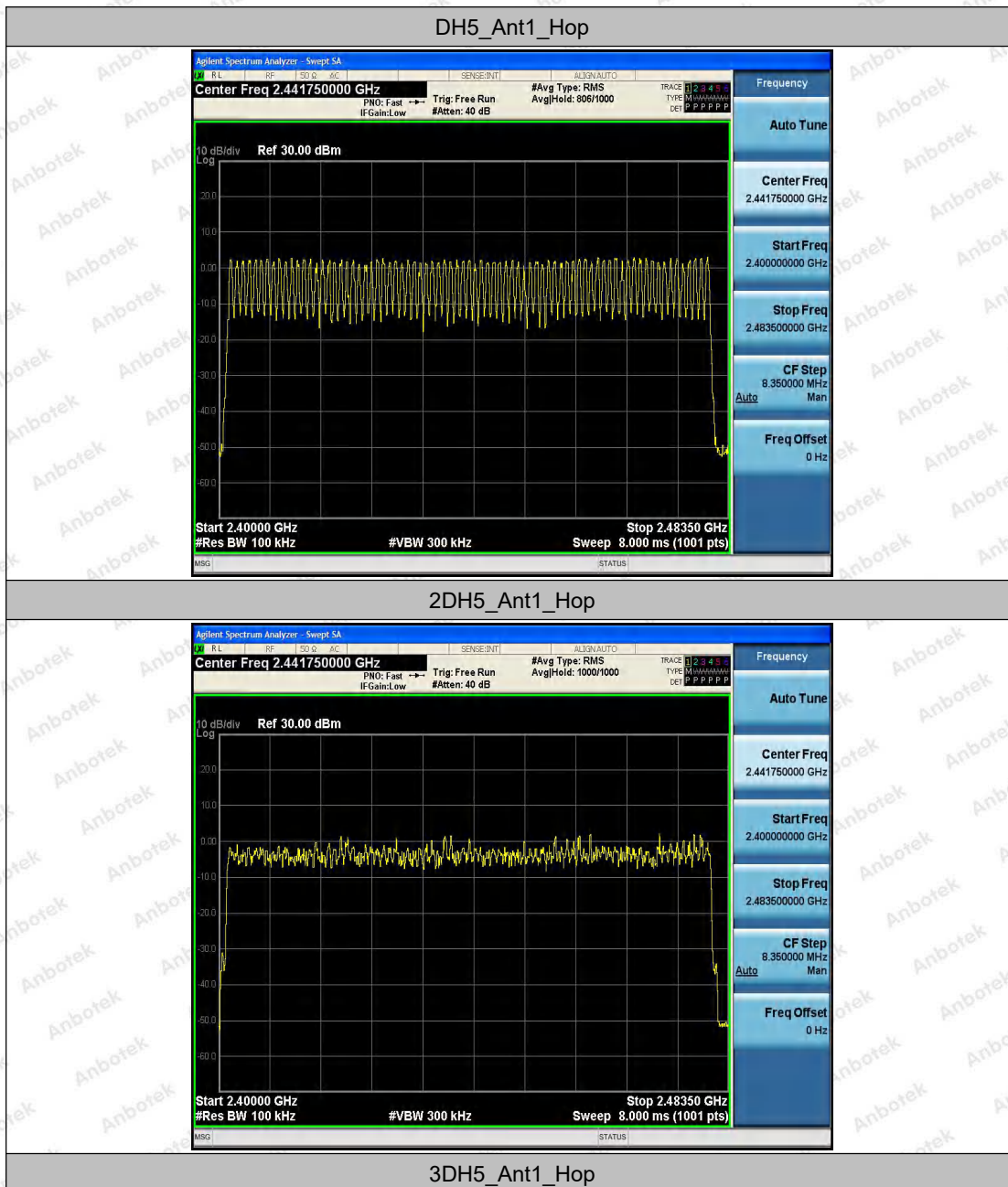
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Appendix F: Number of hopping channels

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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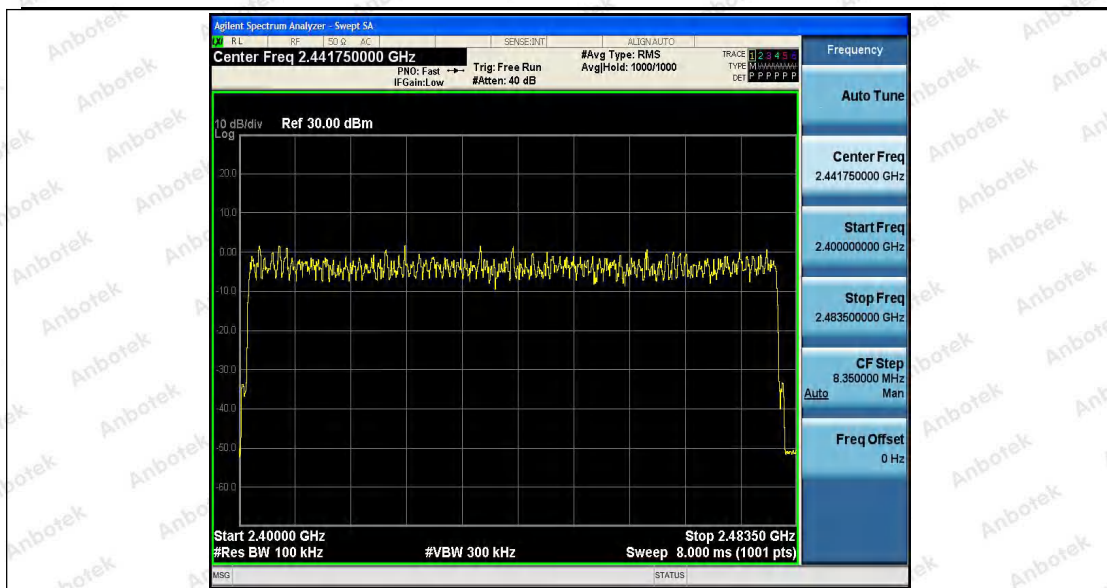
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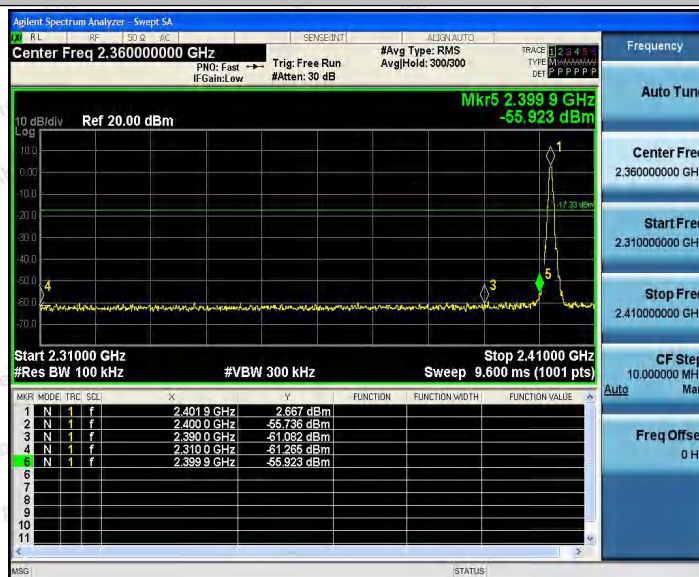
Appendix G: Band edge measurements

Test Result

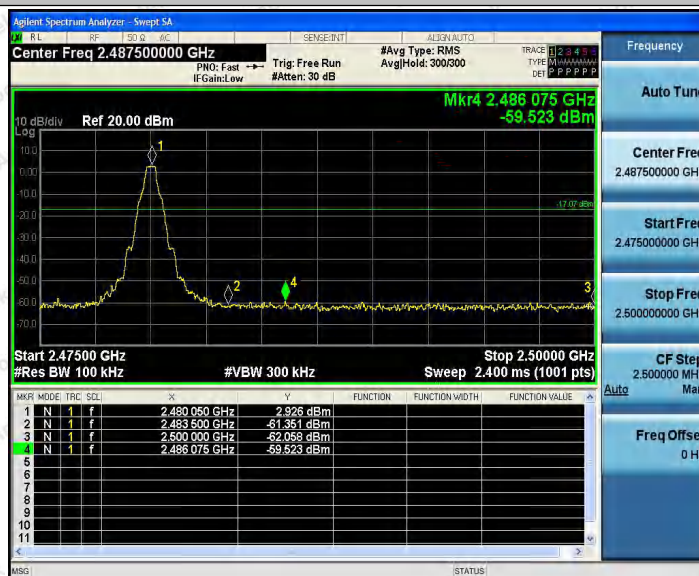
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.67	-55.92	≤-17.33	PASS
		High	2480	2.93	-59.52	≤-17.07	PASS
		Low	Hop	2.43	-59.84	≤-17.58	PASS
		High	Hop	3.08	-62.11	≤-16.92	PASS
2DH5	Ant1	Low	2402	1.83	-54.89	≤-18.17	PASS
		High	2480	1.89	-59.13	≤-18.11	PASS
		Low	Hop	1.66	-59.2	≤-18.34	PASS
		High	Hop	1.47	-63.09	≤-18.53	PASS
3DH5	Ant1	Low	2402	1.63	-55.04	≤-18.37	PASS
		High	2480	2.20	-58.82	≤-17.81	PASS
		Low	Hop	-0.91	-59.4	≤-20.91	PASS
		High	Hop	0.21	-61.46	≤-19.79	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



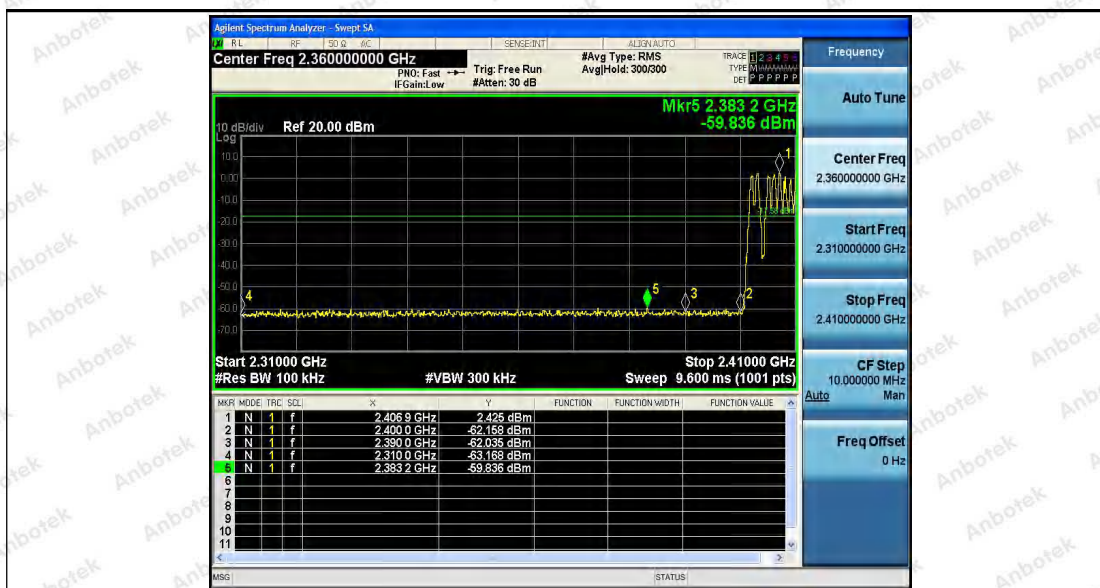
DH5_Ant1_Low_Hop

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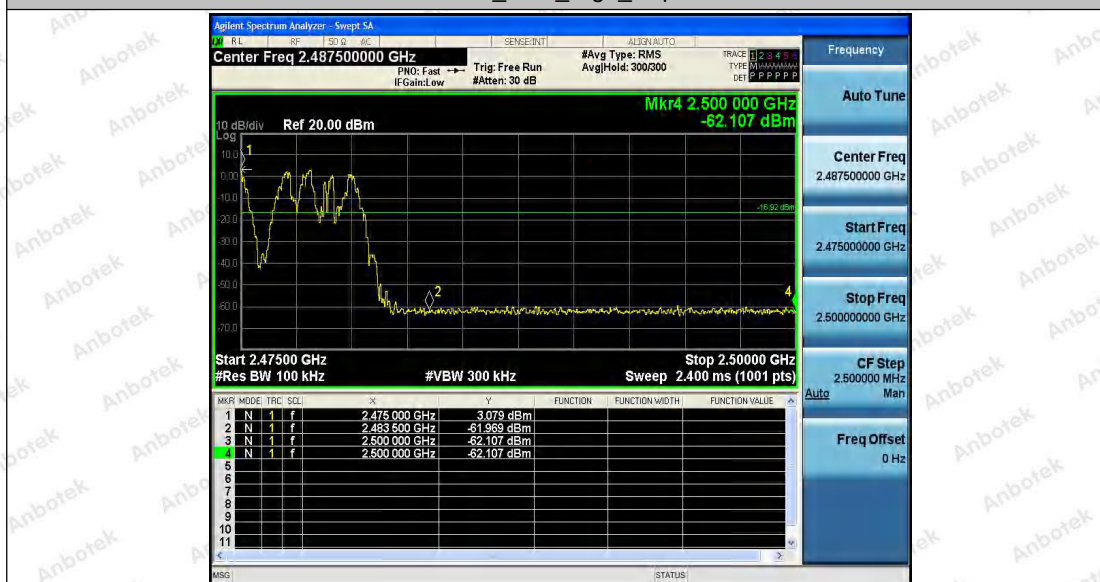
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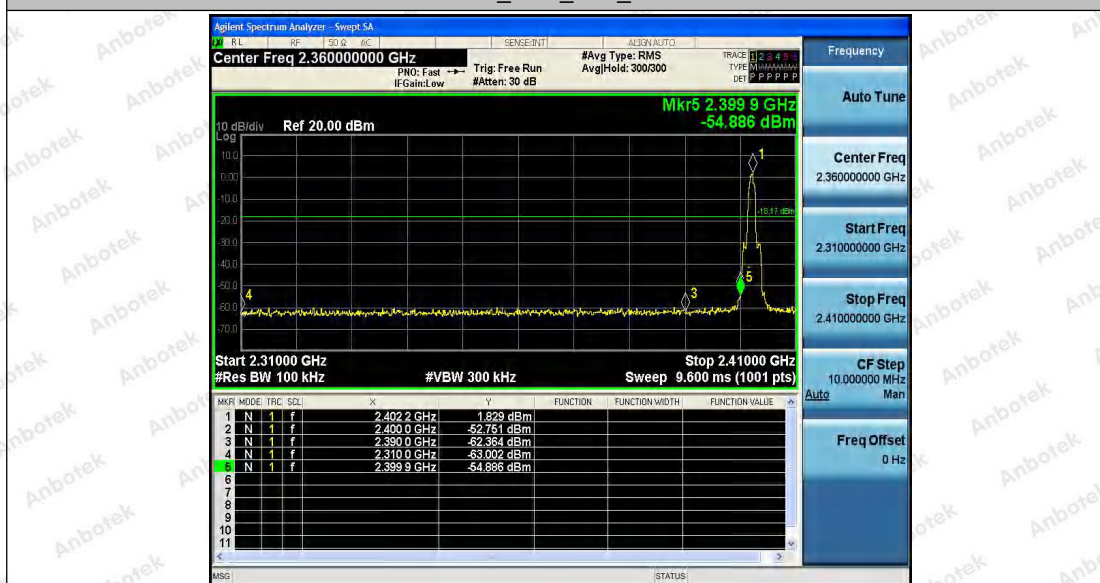
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



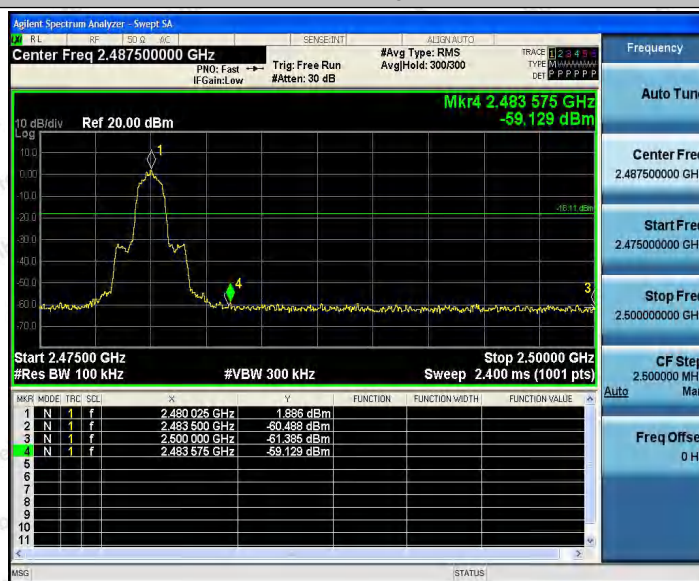
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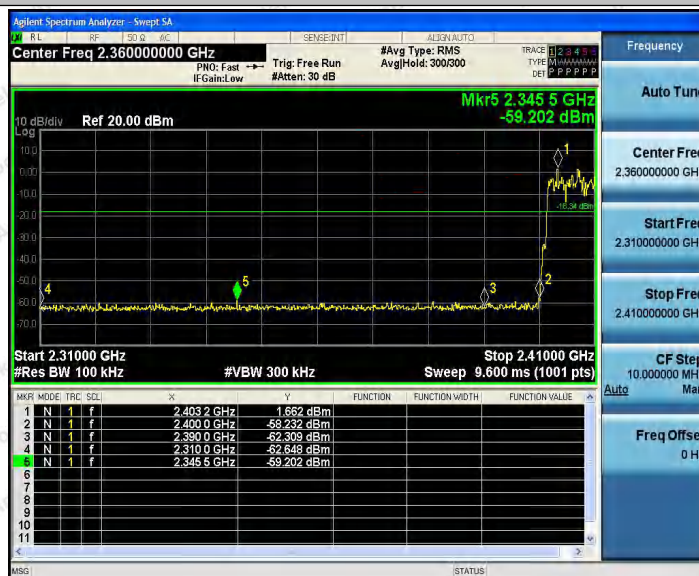
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



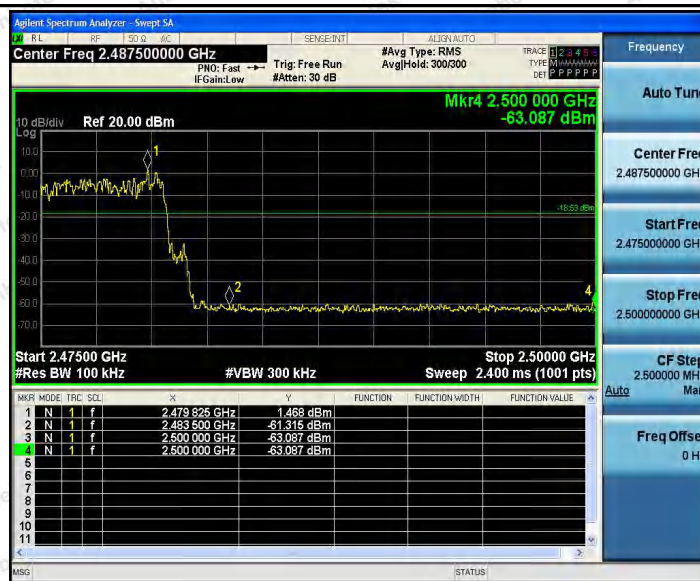
2DH5_Ant1_High_Hop

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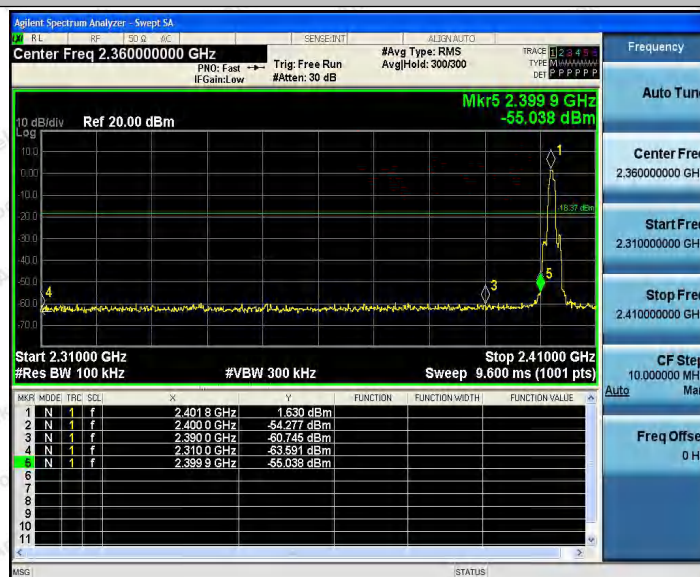
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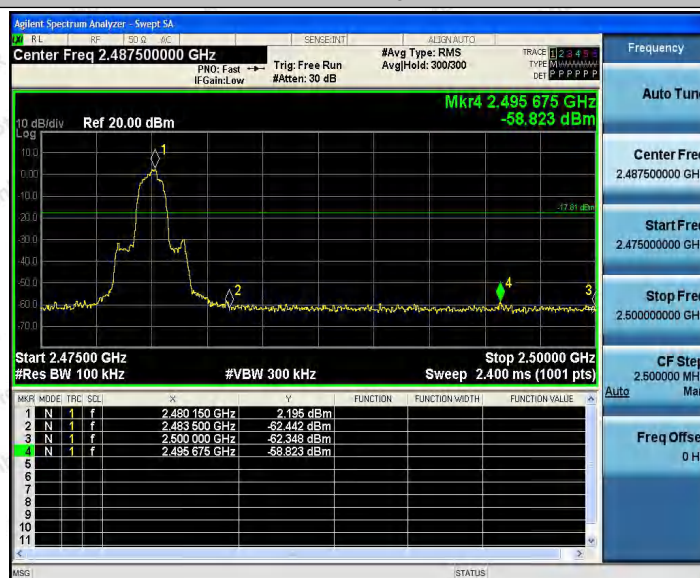
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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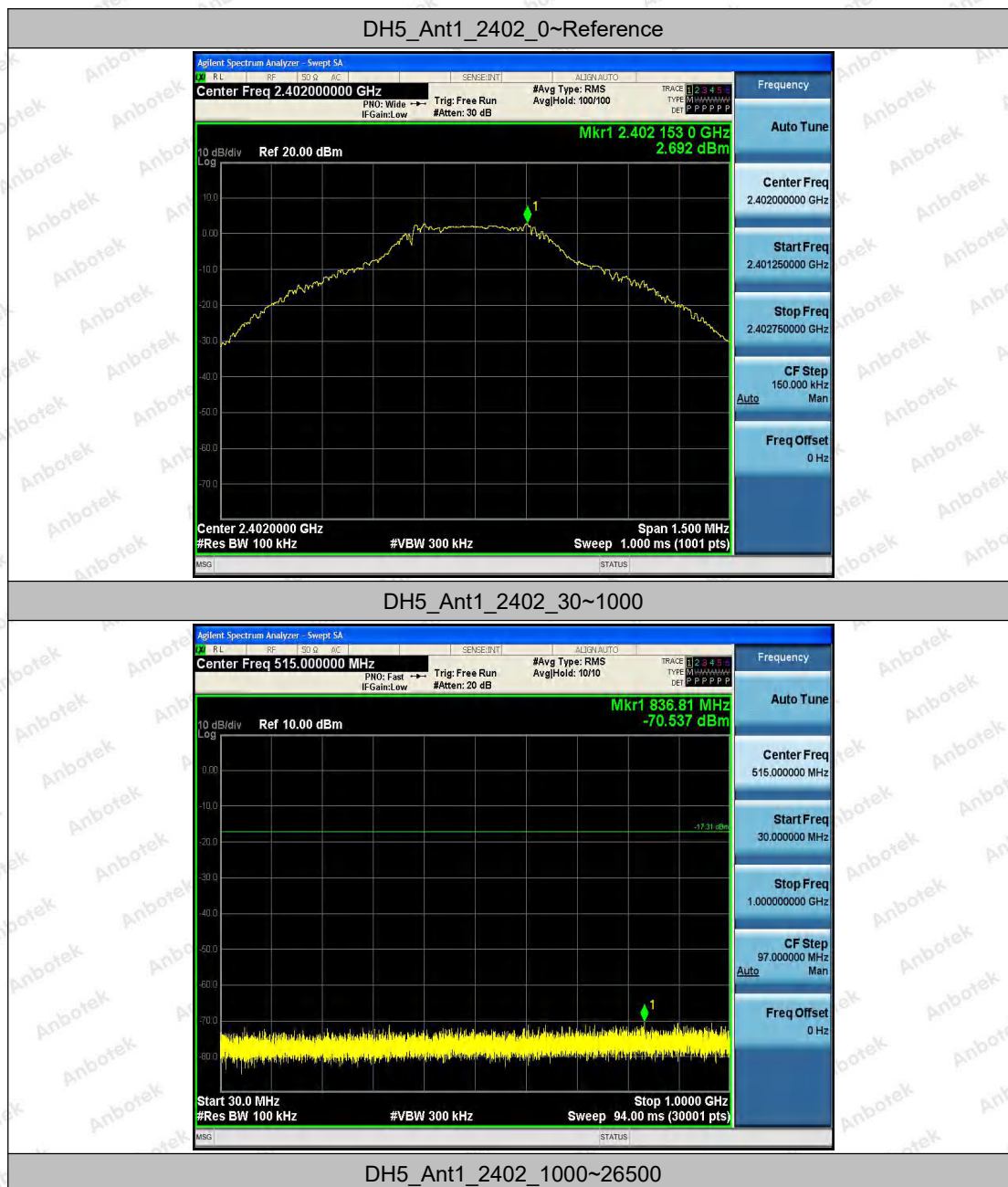
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-70.54	≤-17.31	PASS
			1000~26500	2.69	-55.77	≤-17.31	PASS
		2441	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-70.62	≤-18.07	PASS
			1000~26500	1.93	-55.51	≤-18.07	PASS
		2480	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-70.75	≤-16.86	PASS
			1000~26500	3.14	-54.82	≤-16.86	PASS
2DH5	Ant1	2402	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-70.44	≤-18.86	PASS
			1000~26500	1.14	-54.8	≤-18.86	PASS
		2441	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-69.98	≤-18.63	PASS
			1000~26500	1.37	-55.29	≤-18.63	PASS
		2480	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-69.27	≤-18	PASS
			1000~26500	2.00	-54.93	≤-18	PASS
3DH5	Ant1	2402	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-70.06	≤-18.21	PASS
			1000~26500	1.79	-55.58	≤-18.21	PASS
		2441	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-70.93	≤-18.5	PASS
			1000~26500	1.50	-54.66	≤-18.5	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-69.46	≤-18.82	PASS
			1000~26500	1.18	-54.74	≤-18.82	PASS

Test Graphs



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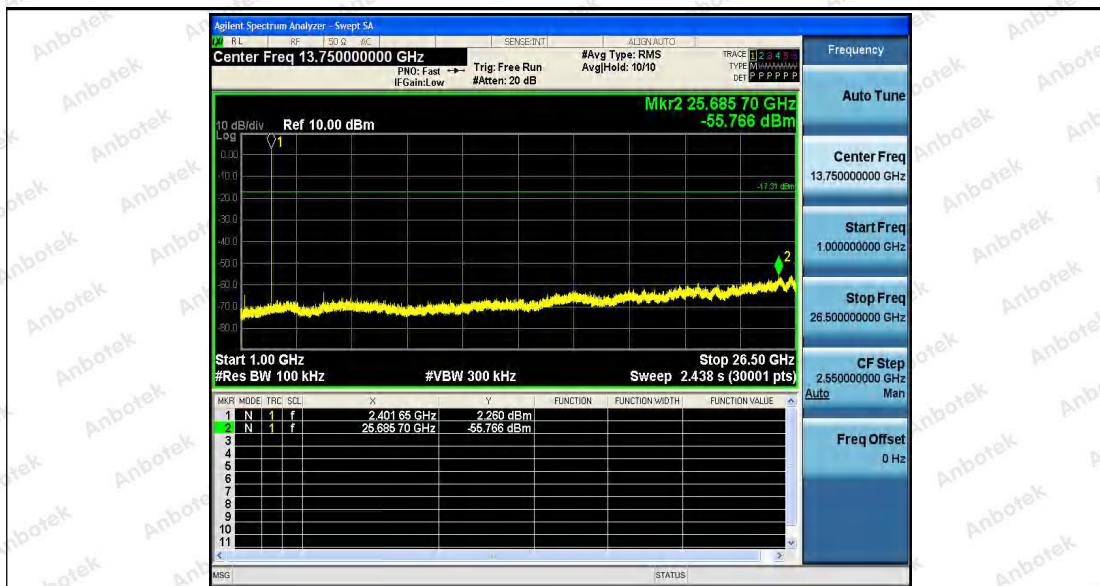
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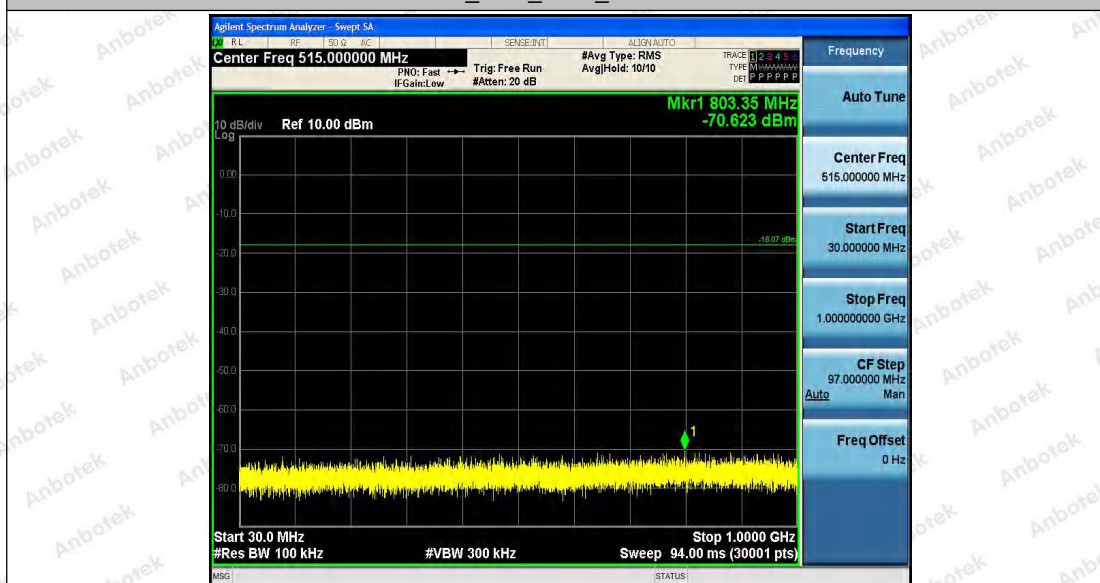
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



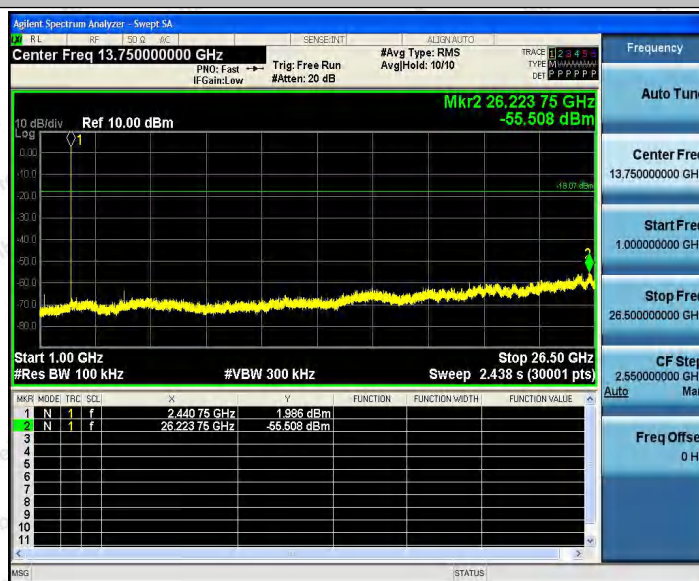
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



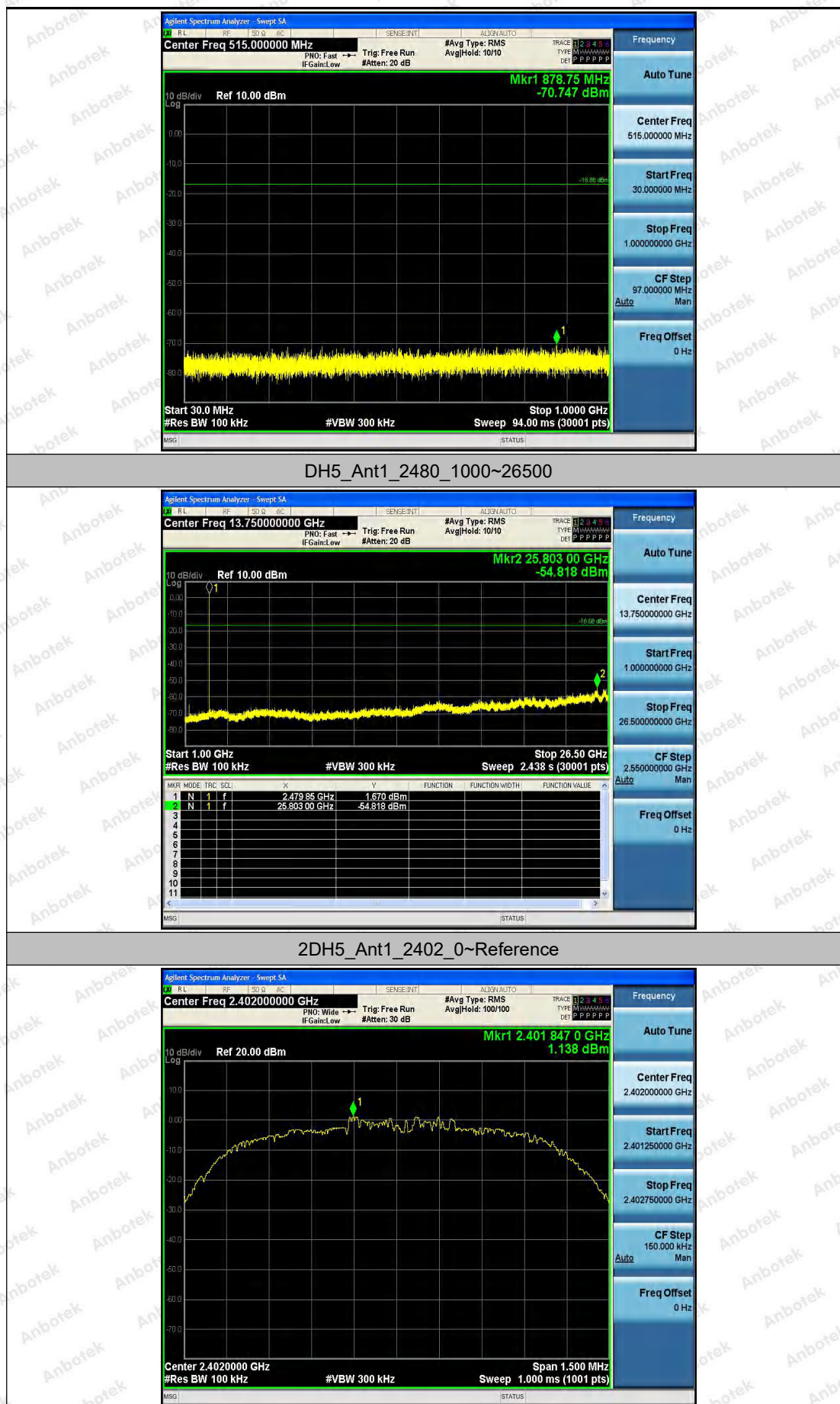
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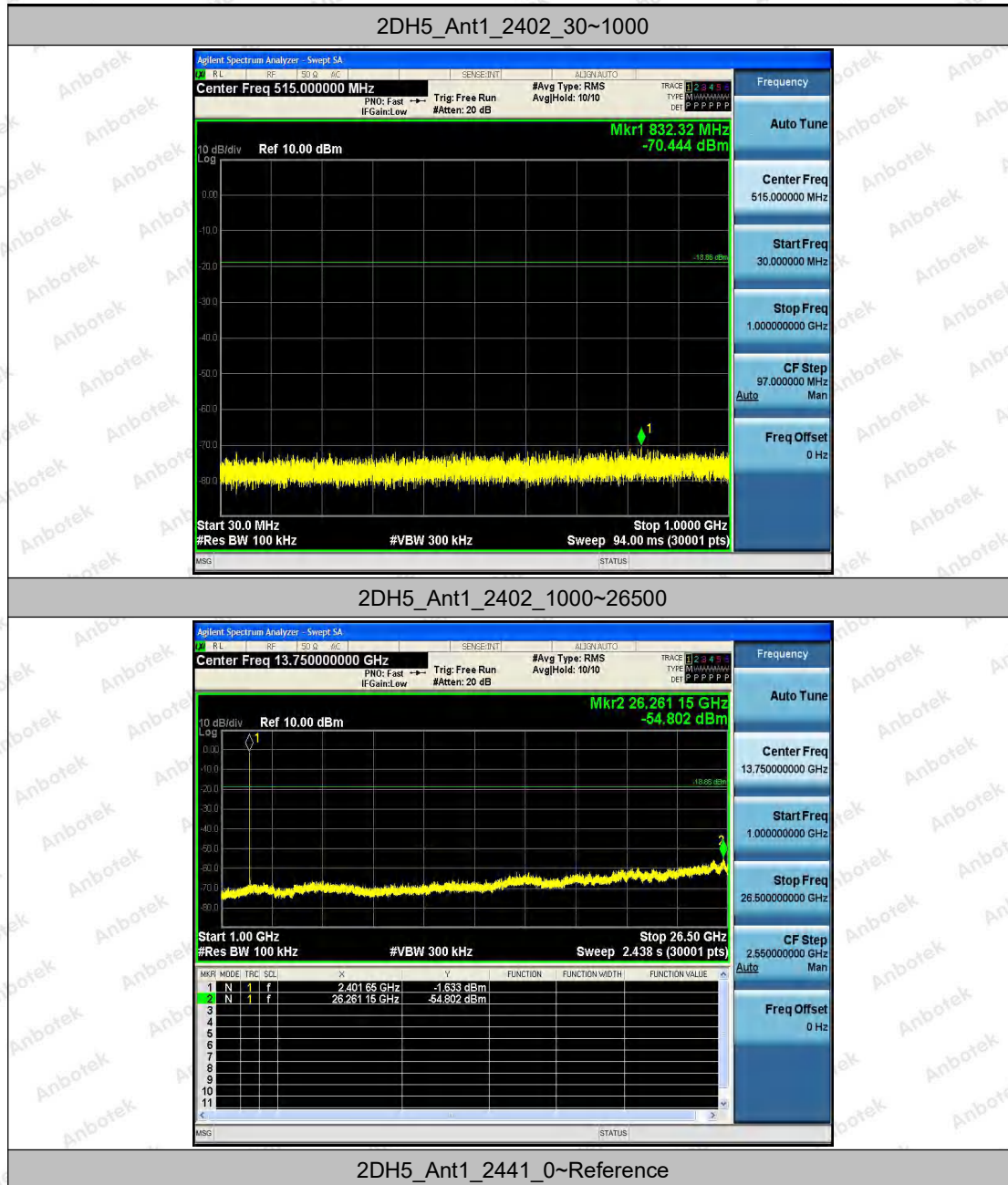


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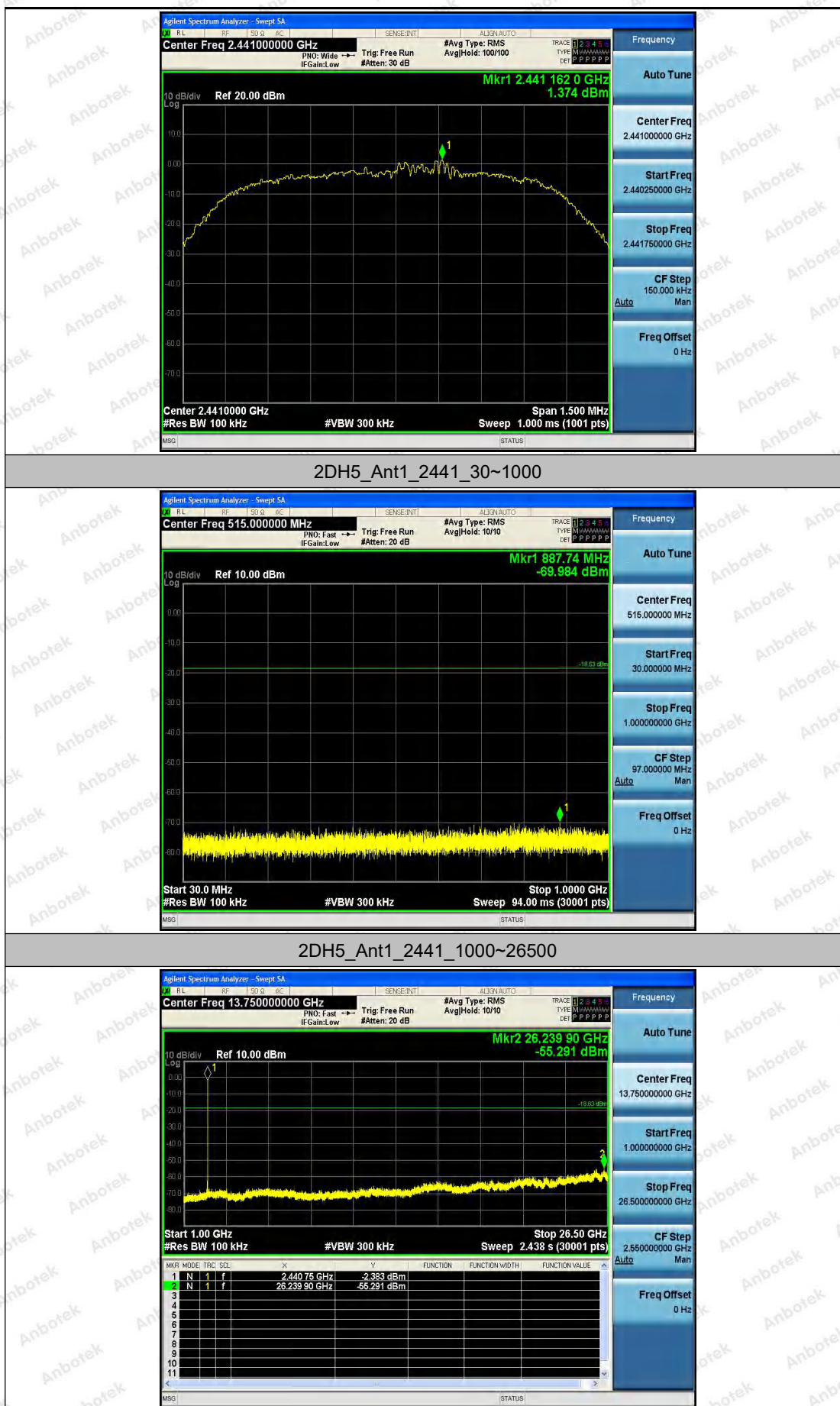


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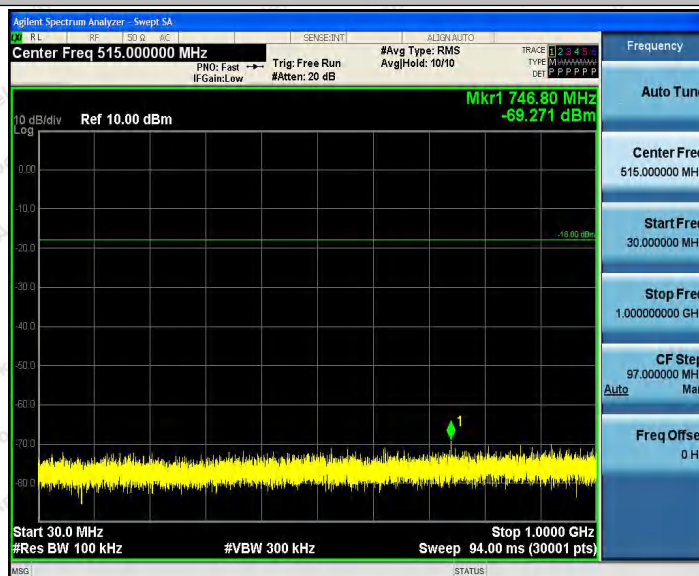
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



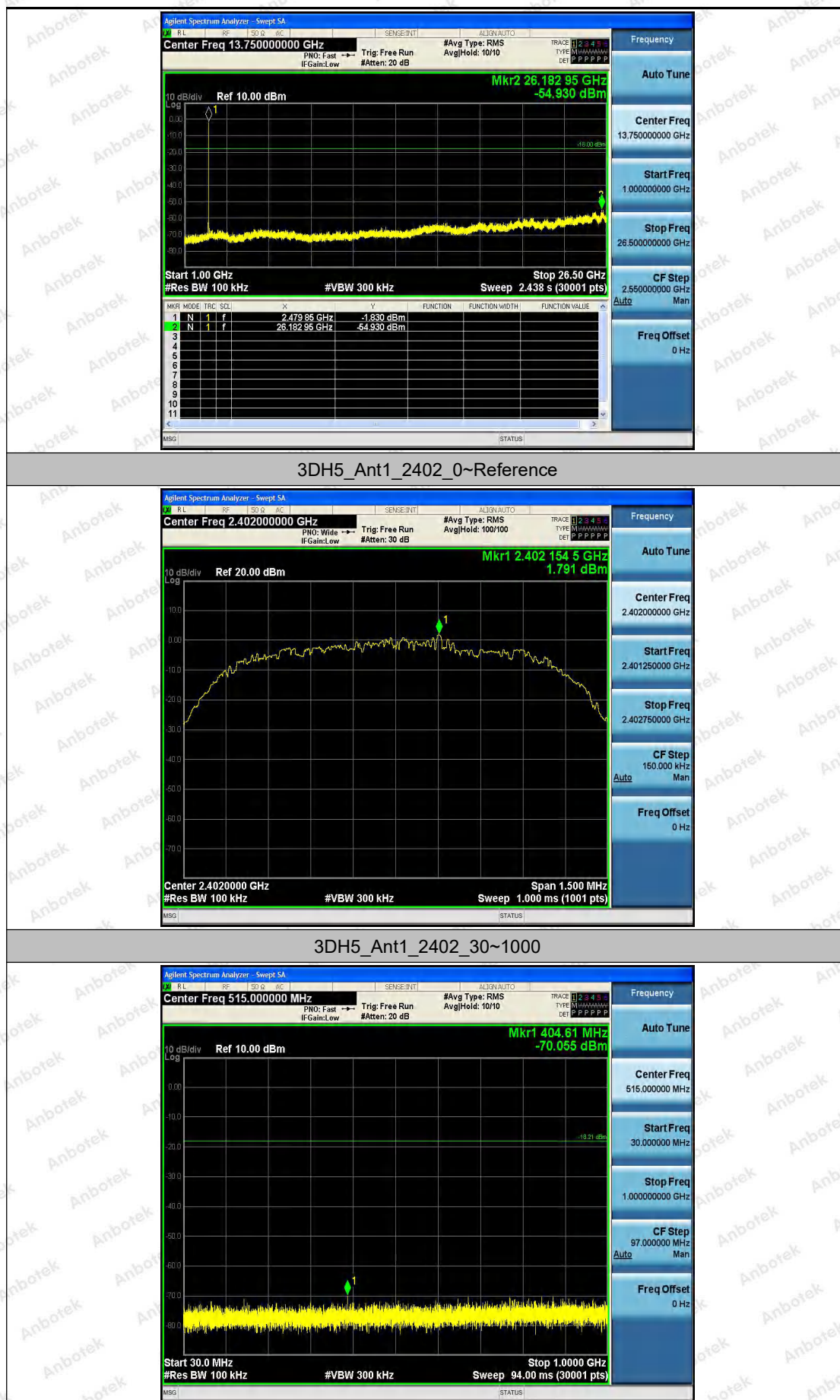
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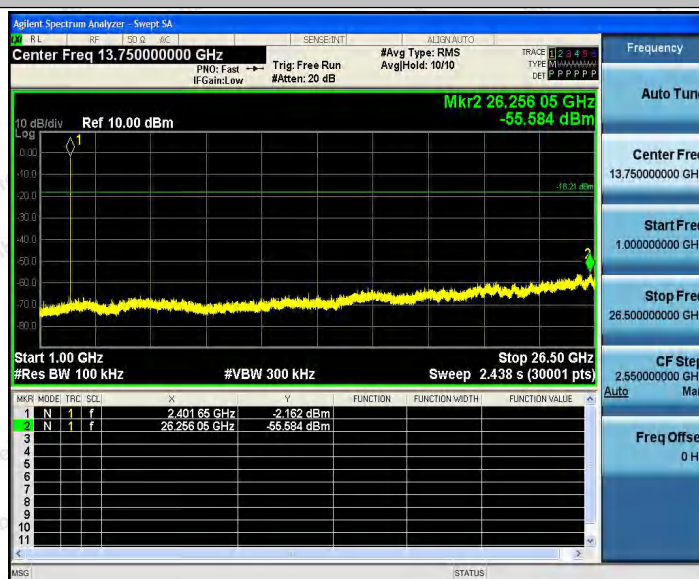
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



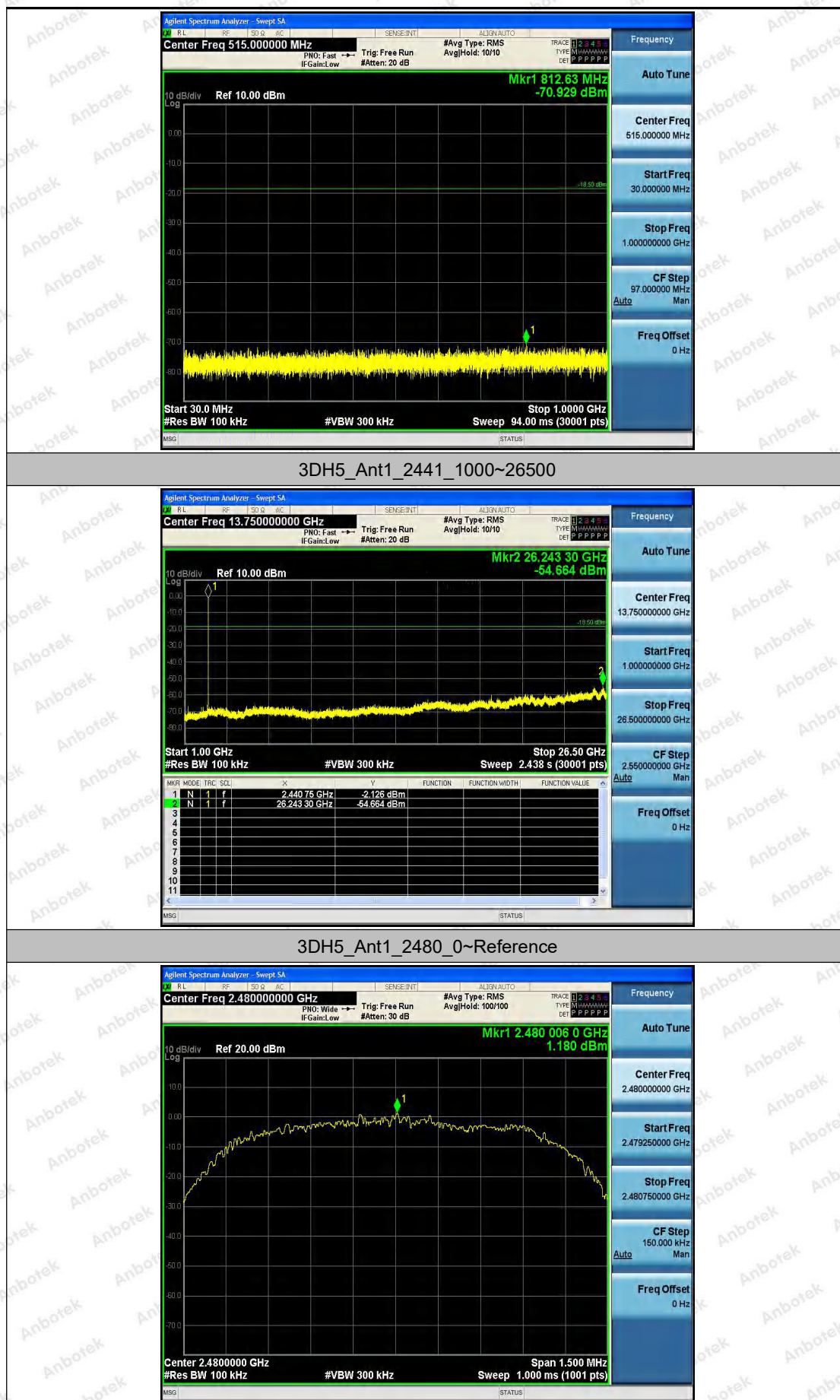
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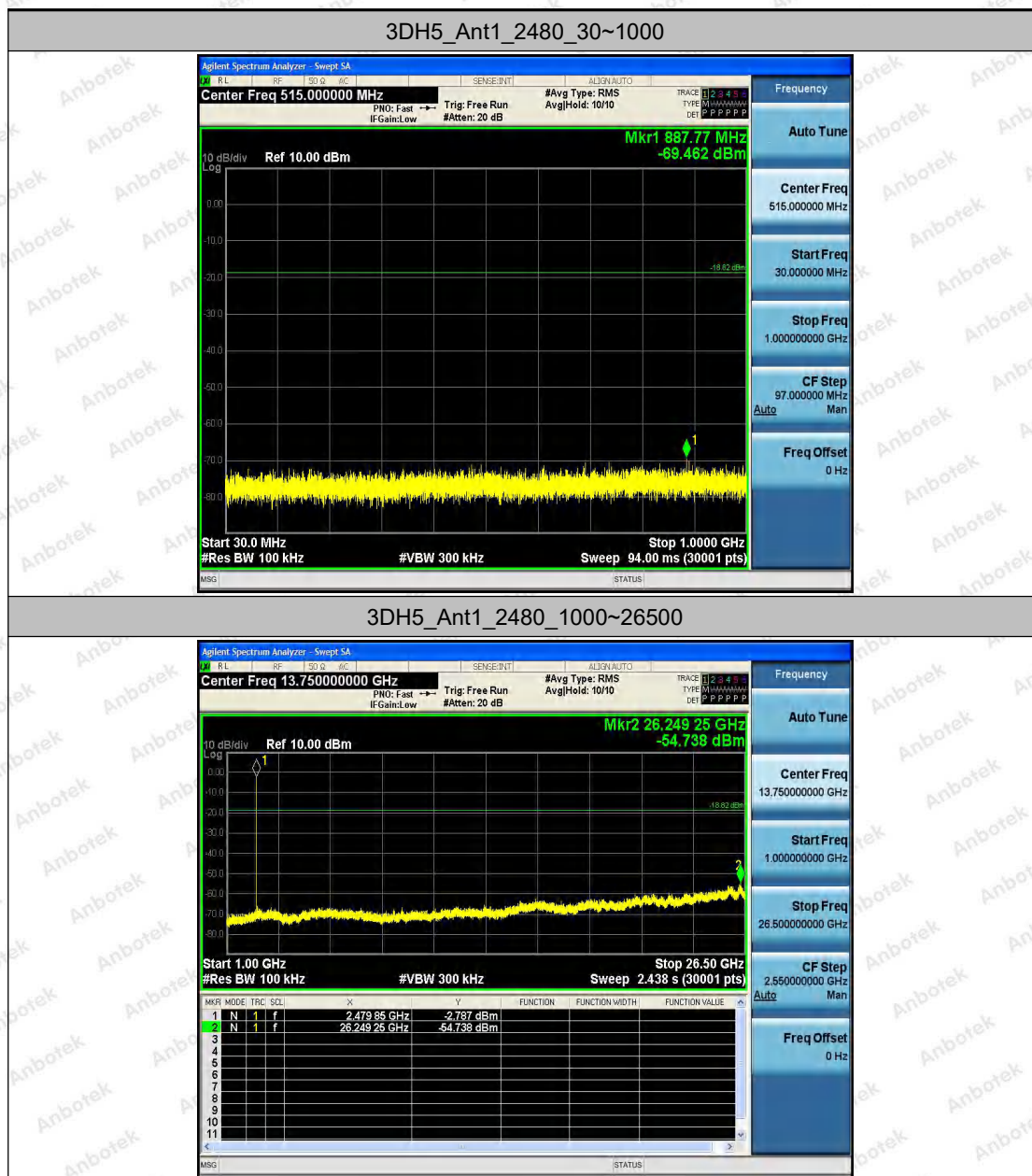


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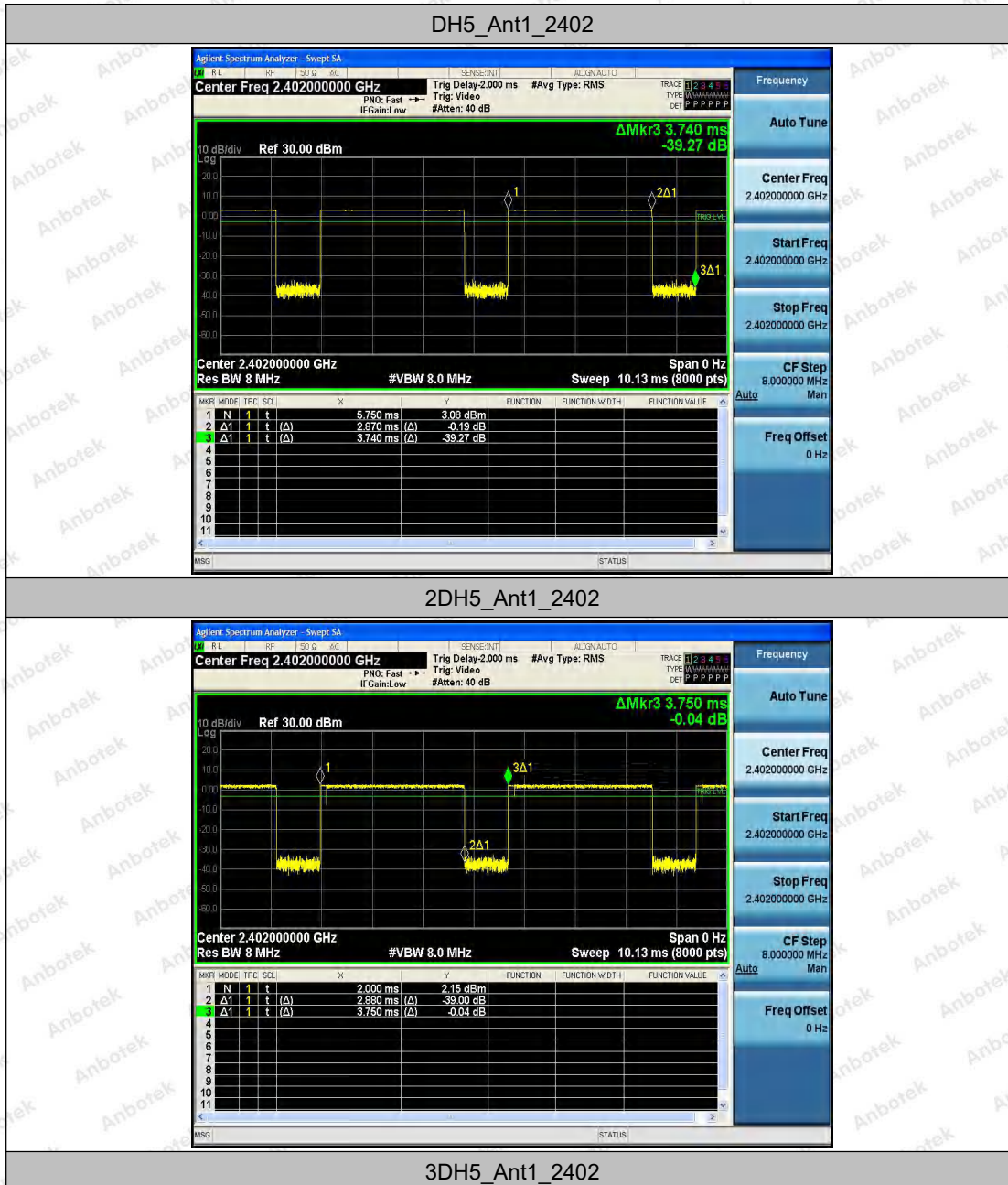
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	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

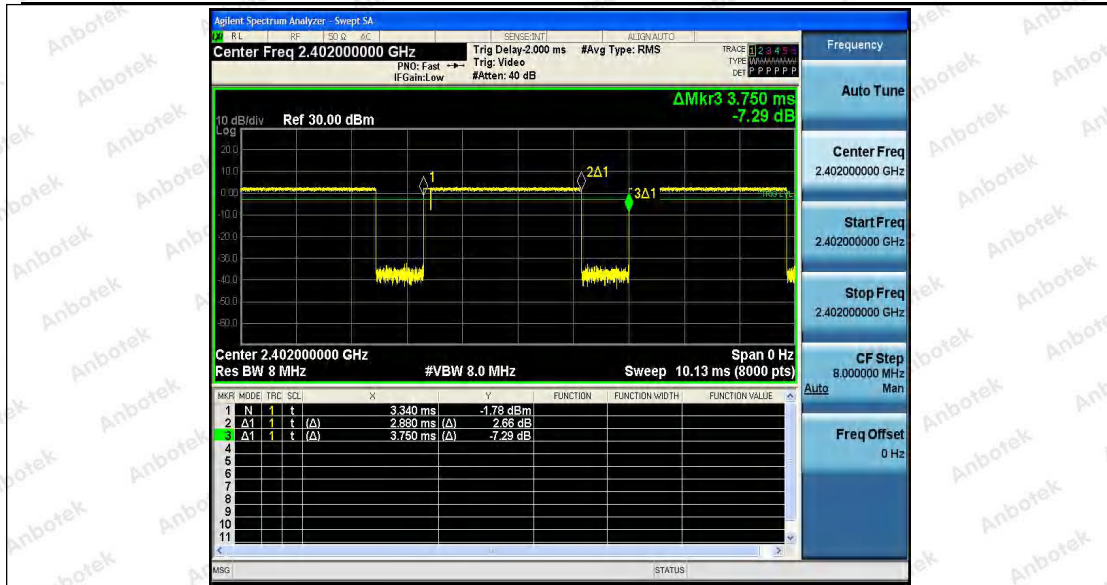


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---End---