

Appendix Test Data

Report No.:	18220WC20074301	Test Sample No.:	1-2-2
Start Test Date:	2022.4.11	Finish Test Date:	2022.4.18
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	54.7 %
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	2401.538	2402.486	---	PASS
		2441	0.930	2440.538	2441.468	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.323	2440.337	2441.660	---	PASS
		2480	1.320	2479.337	2480.657	---	PASS
3DH5	Ant1	2402	1.332	2401.331	2402.663	---	PASS
		2441	1.311	2440.346	2441.657	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



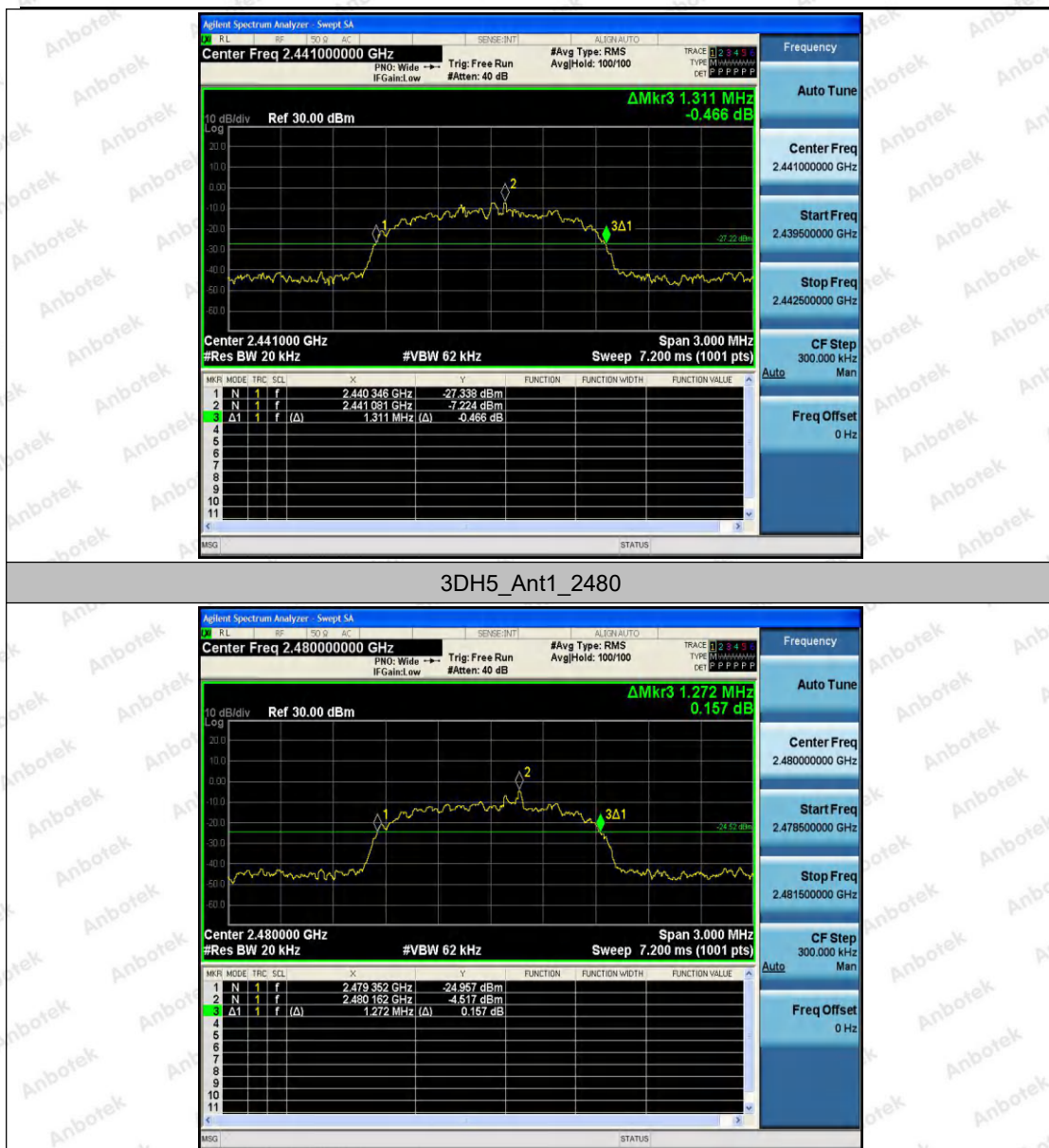
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

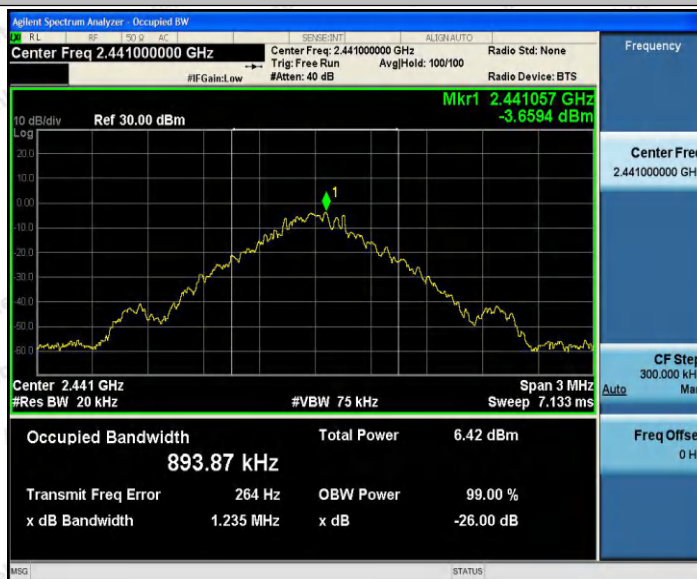
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89365	2401.55 3	2402.447	---	PASS
		2441	0.89387	2440.55 3	2441.447	---	PASS
		2480	0.89649	2479.55 2	2480.448	---	PASS
2DH5	Ant1	2402	1.2044	2401.39 8	2402.602	---	PASS
		2441	1.2007	2440.39 7	2441.598	---	PASS
		2480	1.1918	2479.40 3	2480.595	---	PASS
3DH5	Ant1	2402	1.2101	2401.38 7	2402.597	---	PASS
		2441	1.2153	2440.38 4	2441.599	---	PASS
		2480	1.2114	2479.38 6	2480.597	---	PASS

Test Graphs

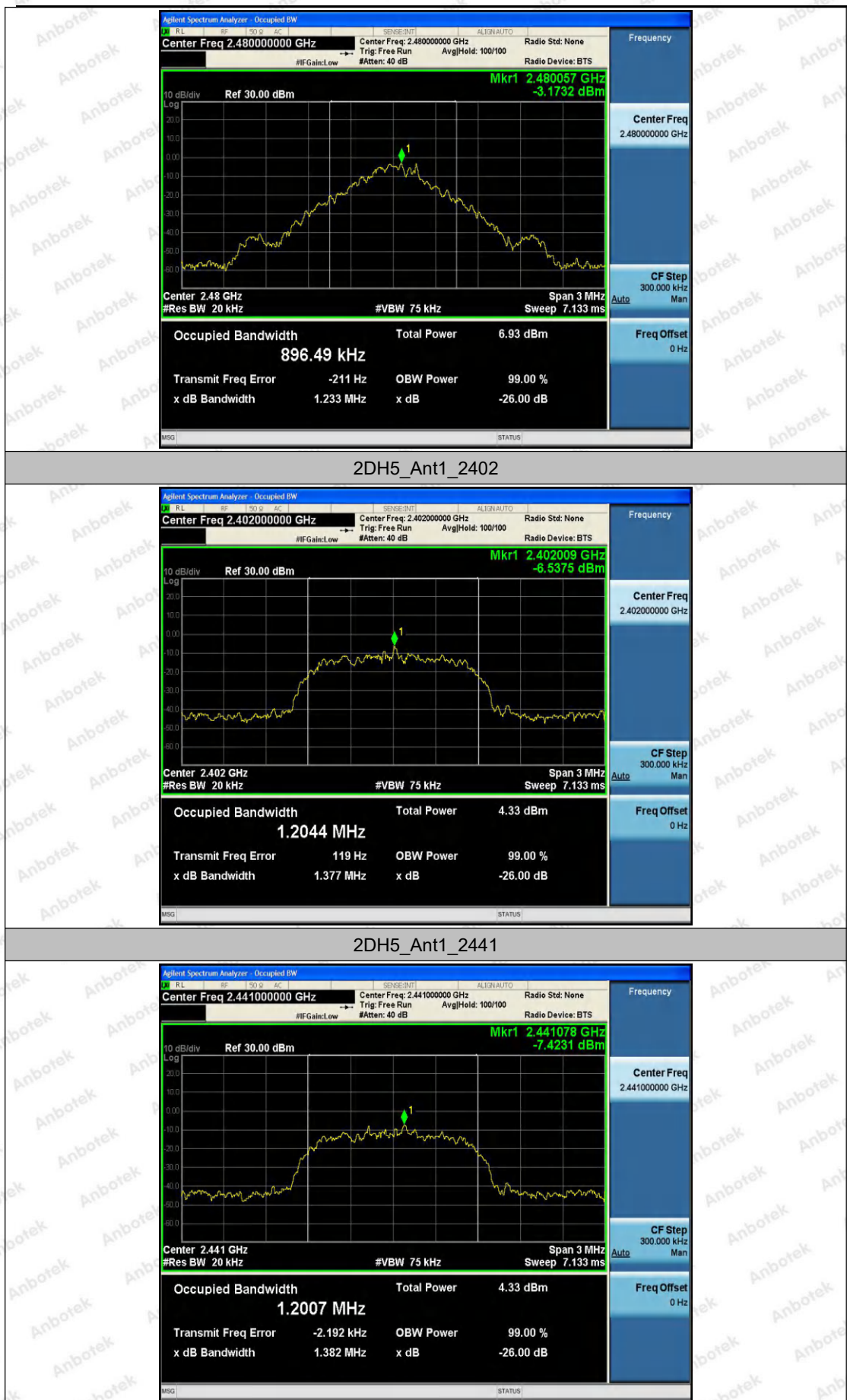
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



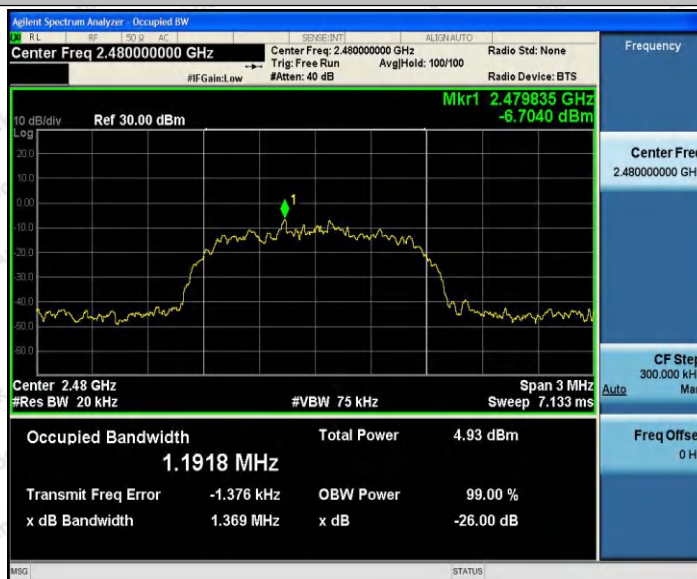
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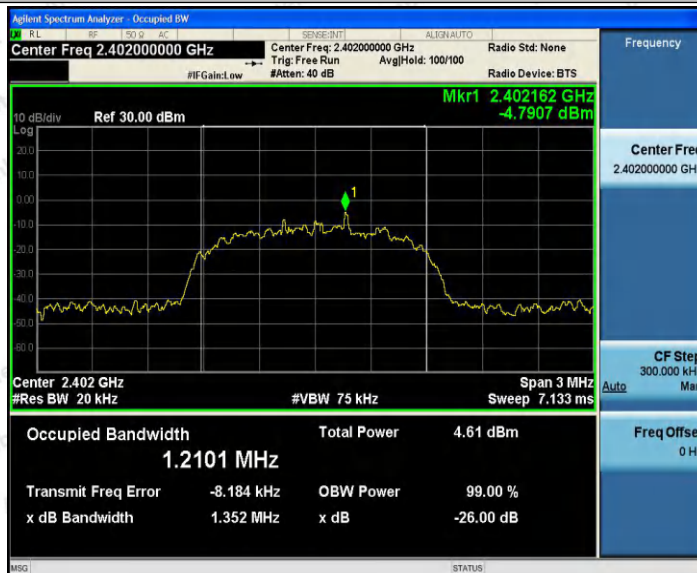
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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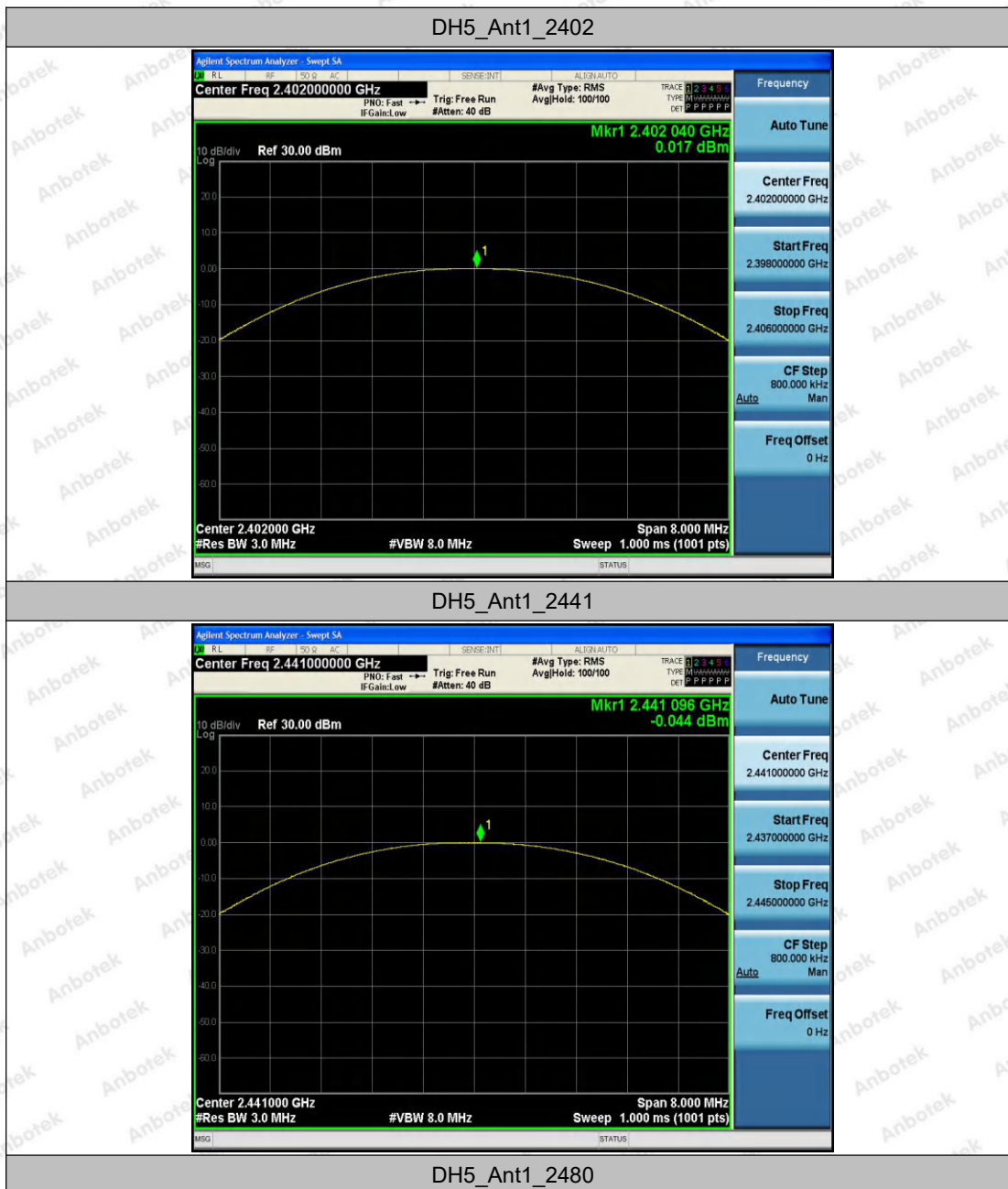
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.02	≤20.97	PASS
		2441	-0.04	≤20.97	PASS
		2480	0.42	≤20.97	PASS
2DH5	Ant1	2402	-0.6	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	-0.32	≤20.97	PASS
3DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.51	≤20.97	PASS
		2480	-0.13	≤20.97	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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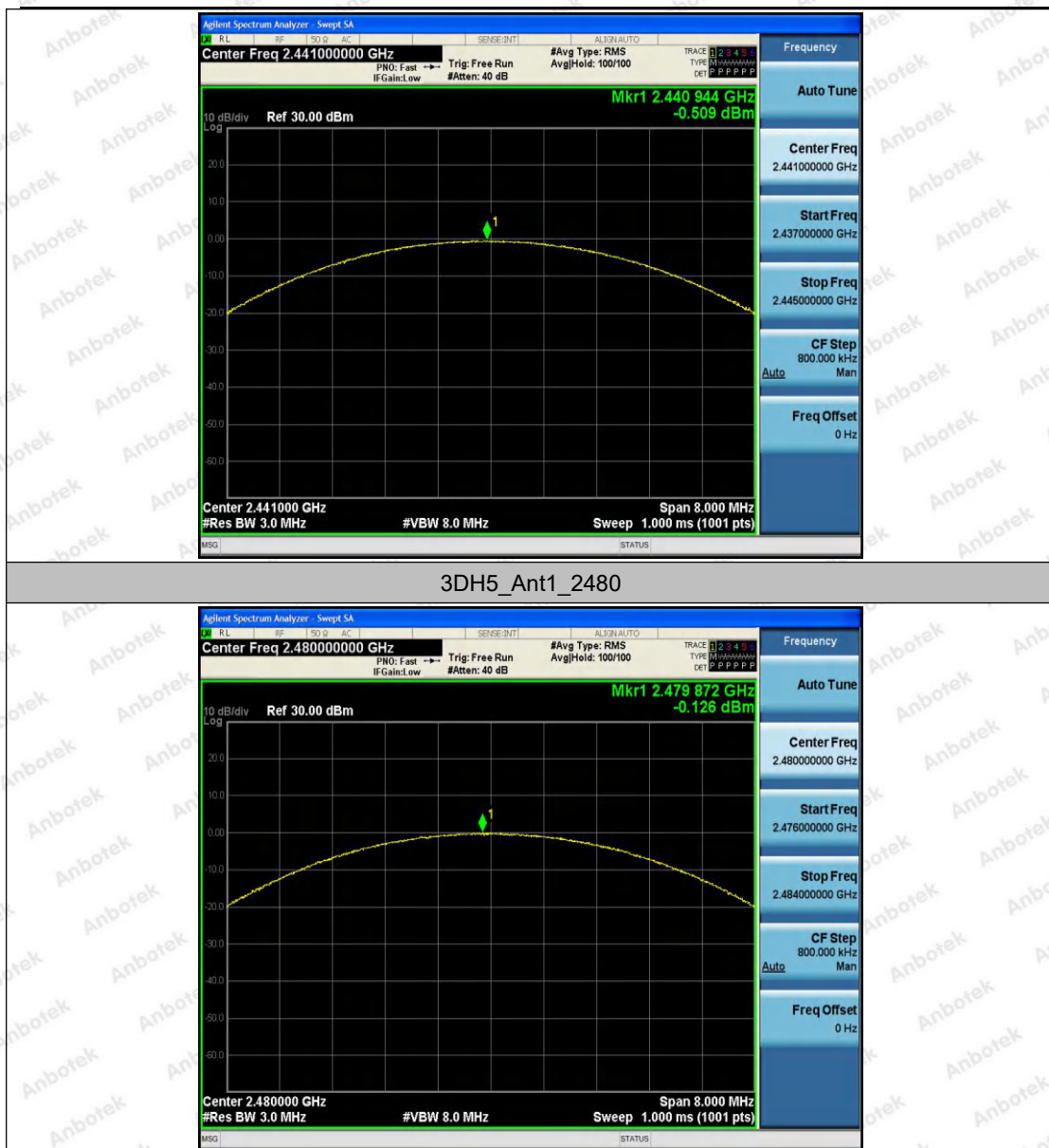
2DH5_Ant1_2480



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	1.054	≥ 0.948	PASS
2DH5	Ant1	Hop	0.976	≥ 0.882	PASS
3DH5	Ant1	Hop	1.326	≥ 0.888	PASS

Test Graphs



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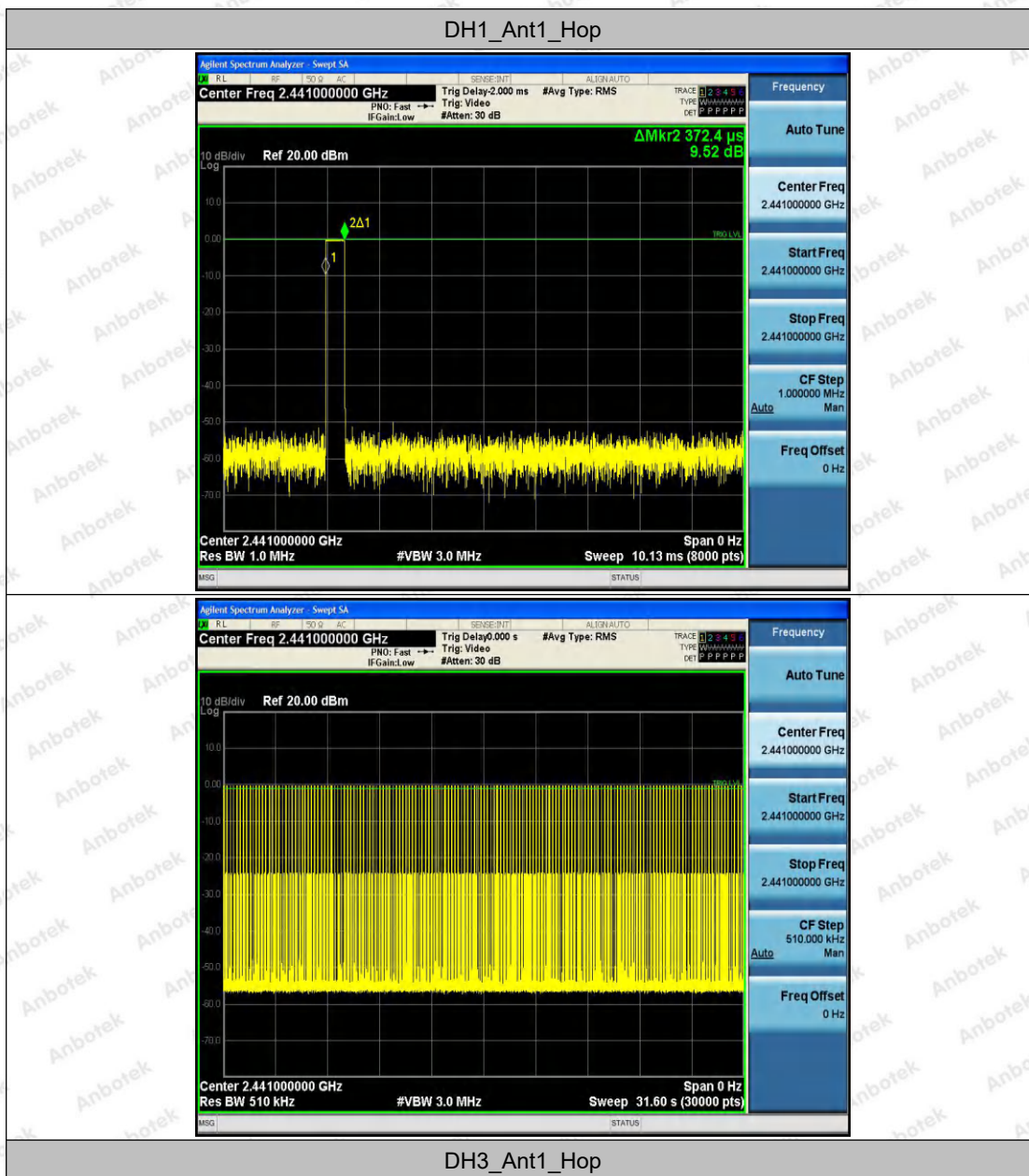
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Appendix E: Time of occupancy

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	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤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	107	0.308	≤0.4	PASS

Test Graphs



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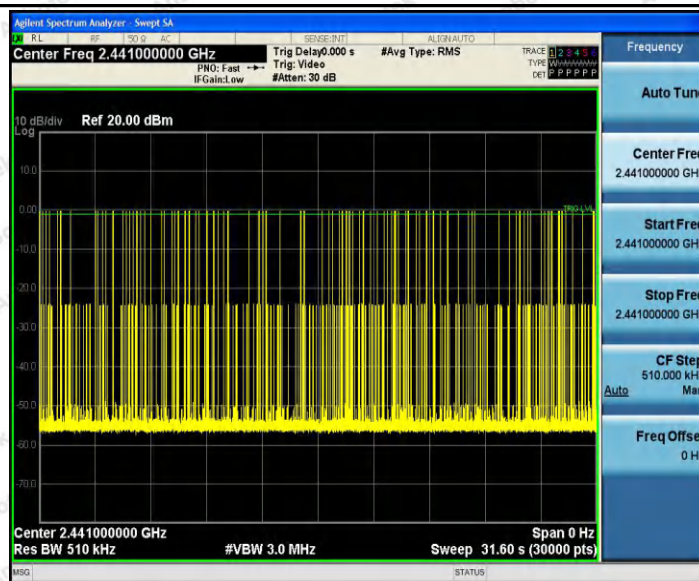
DH5_Ant1_Hop

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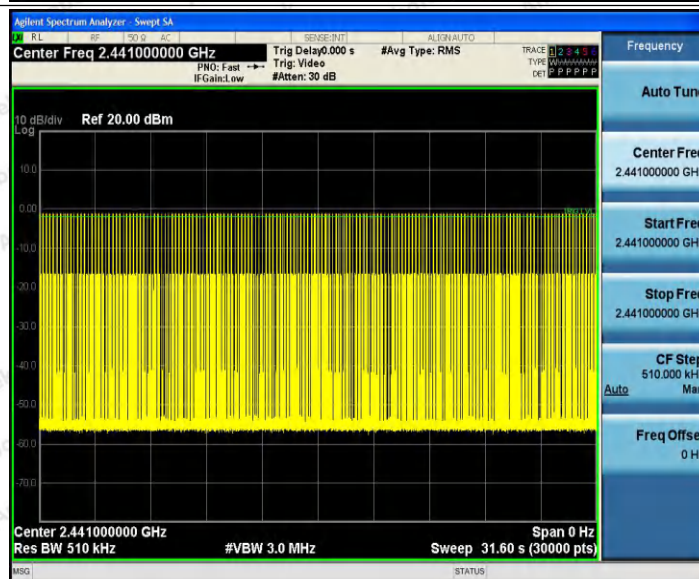
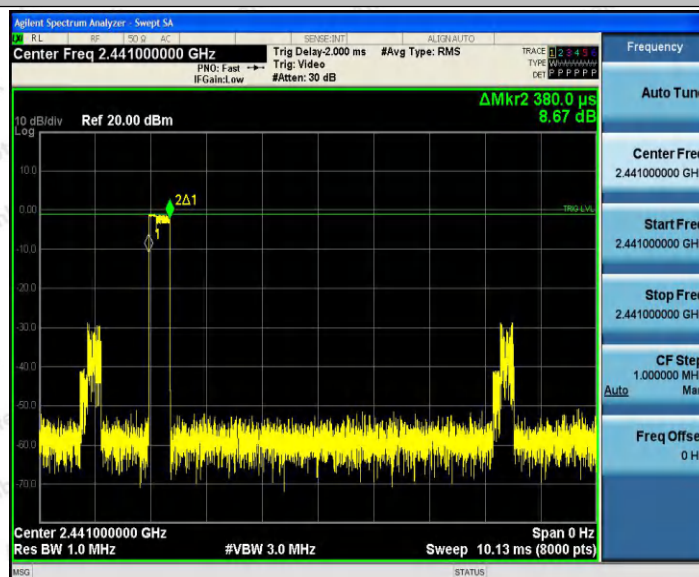
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2DH1_Ant1_Hop



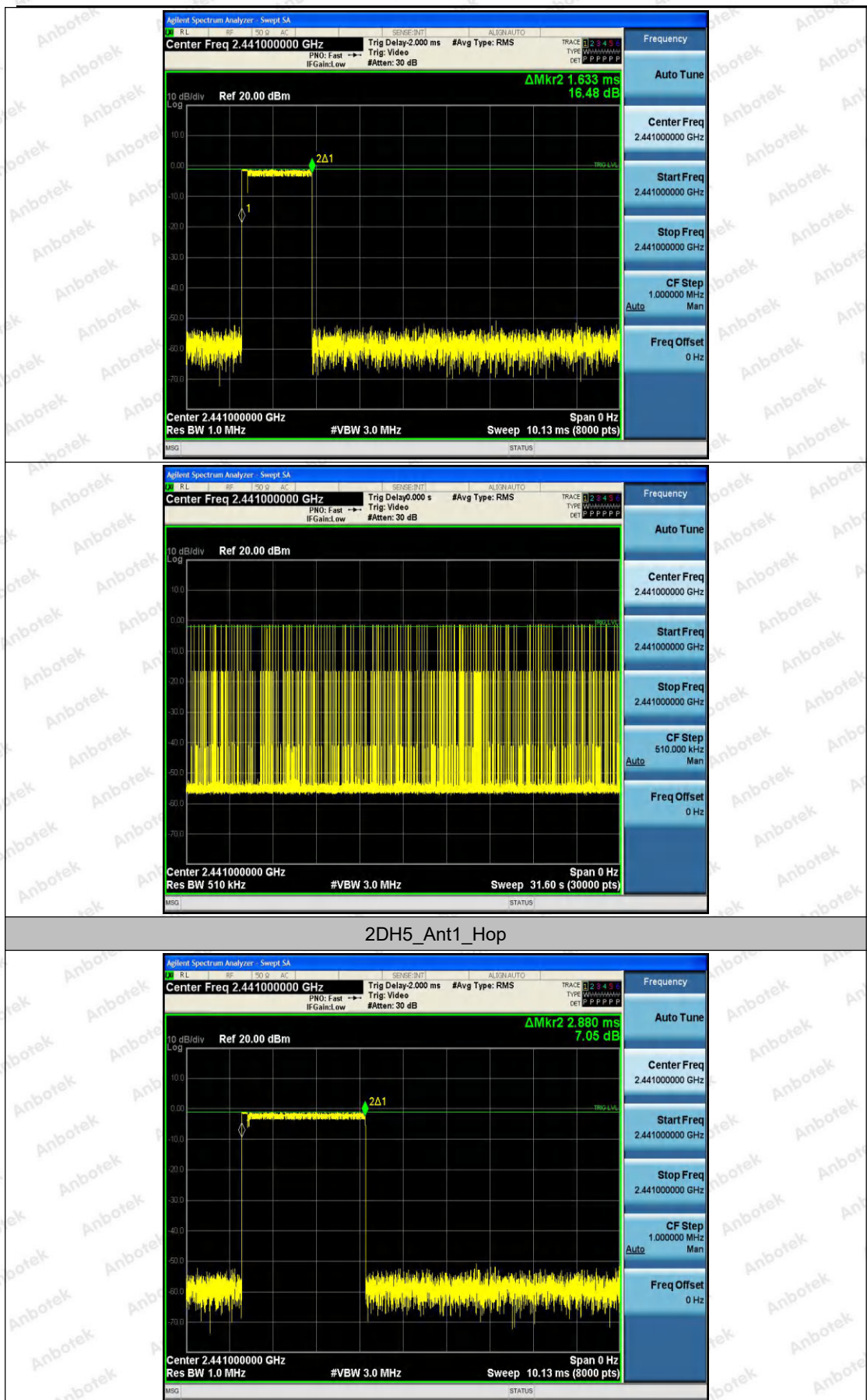
2DH3_Ant1_Hop

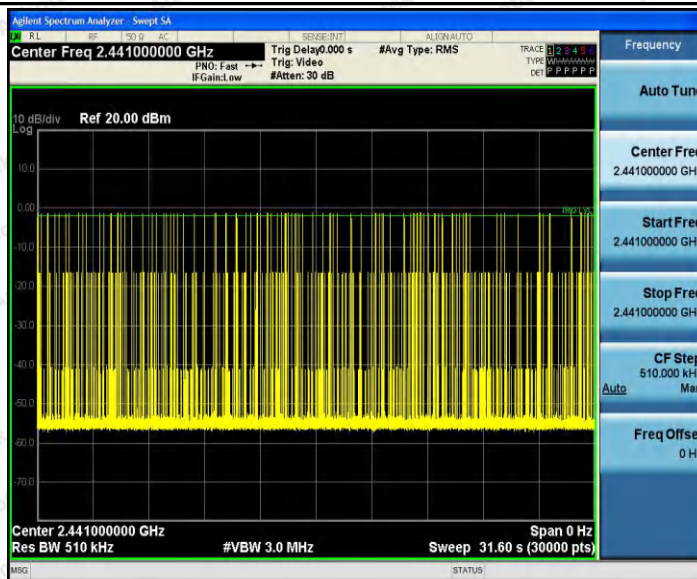
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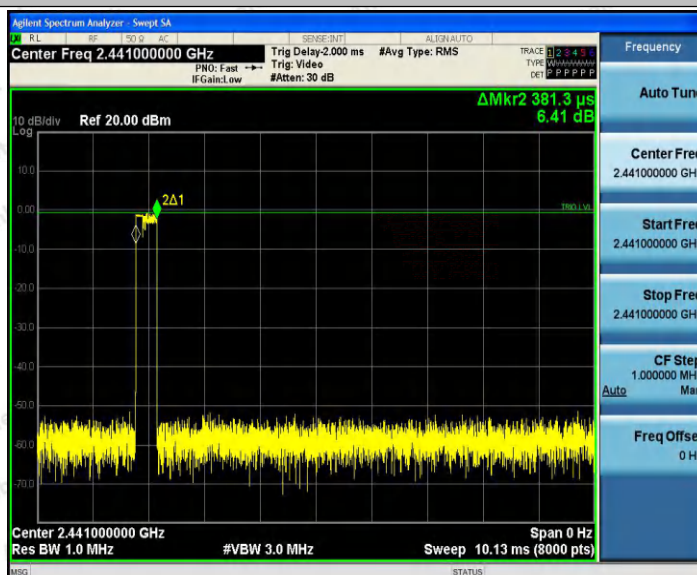
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3DH1_Ant1_Hop



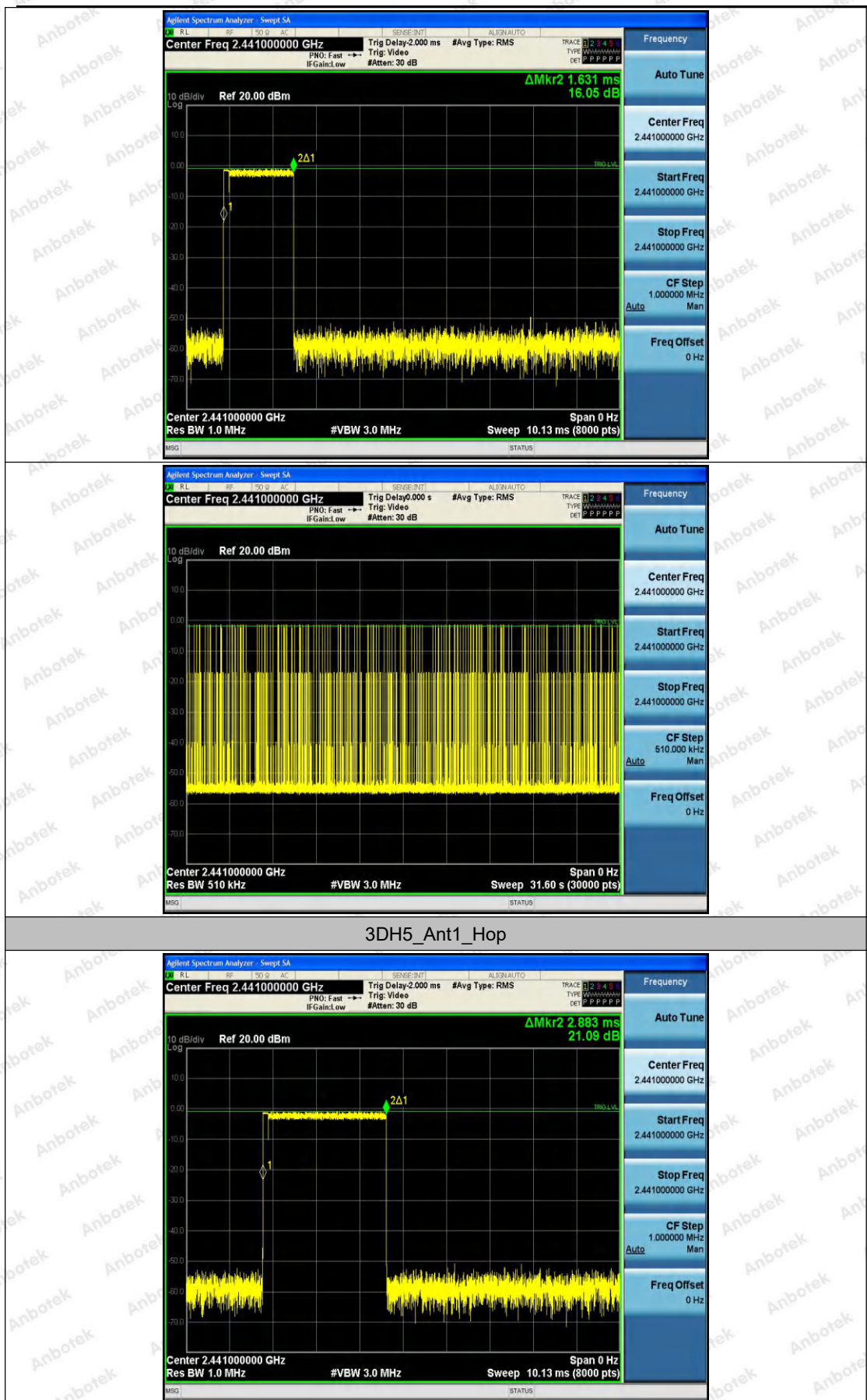
3DH3_Ant1_Hop

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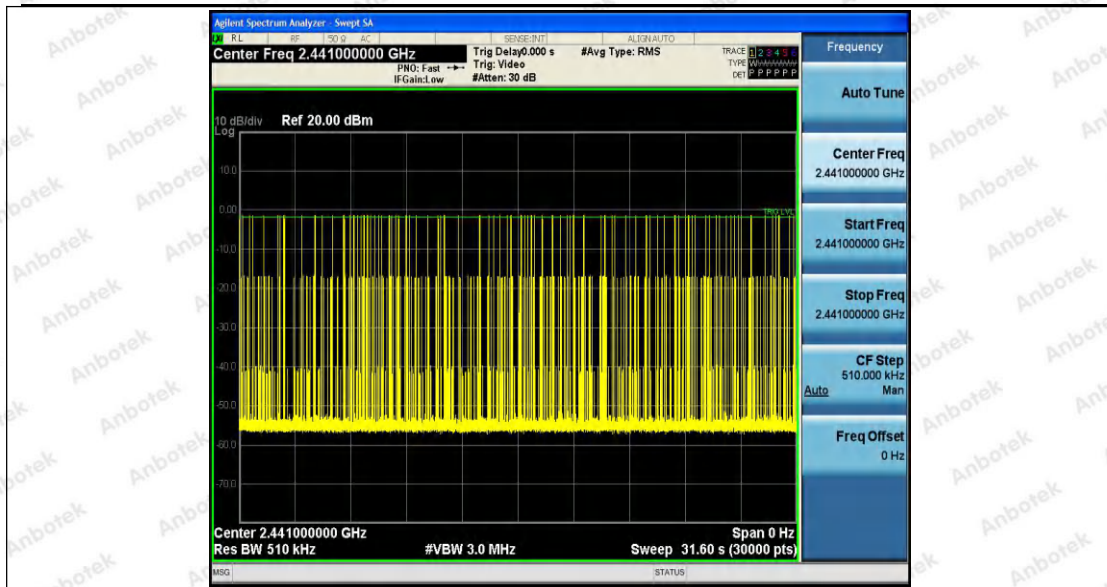
3DH5_Ant1_Hop

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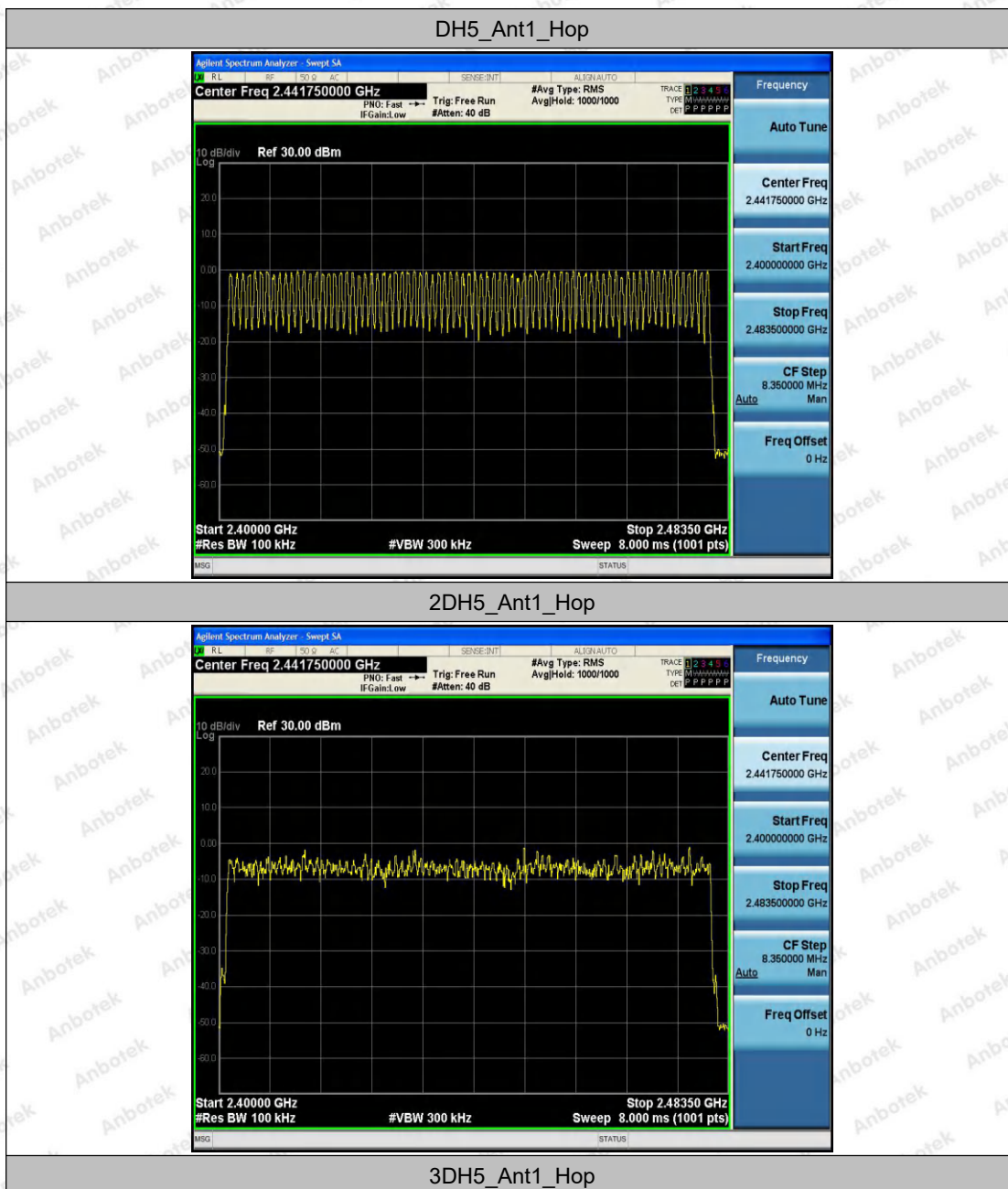
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Appendix F: Number of hopping channels

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

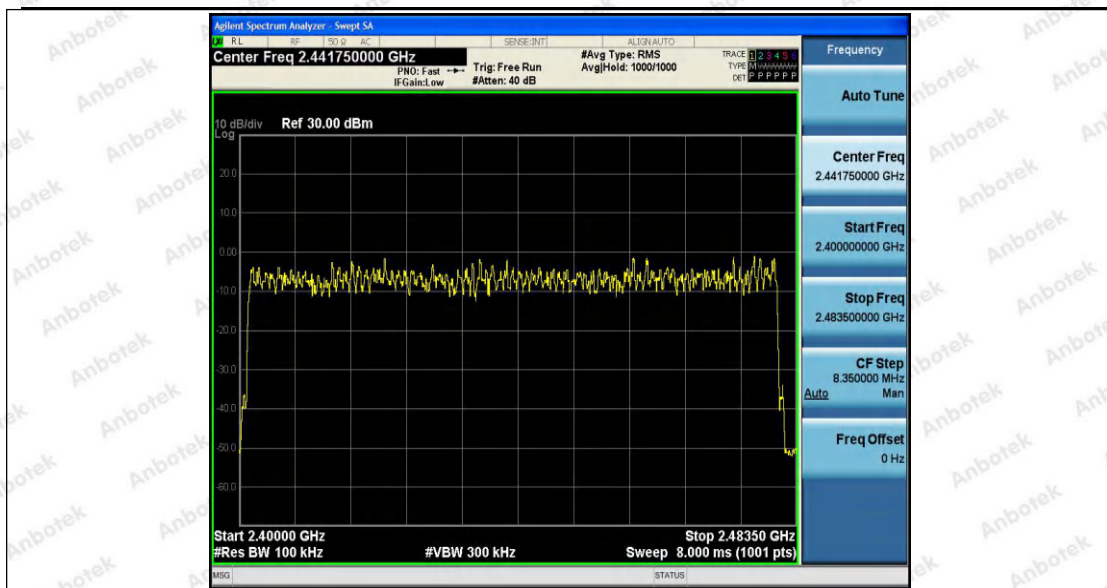


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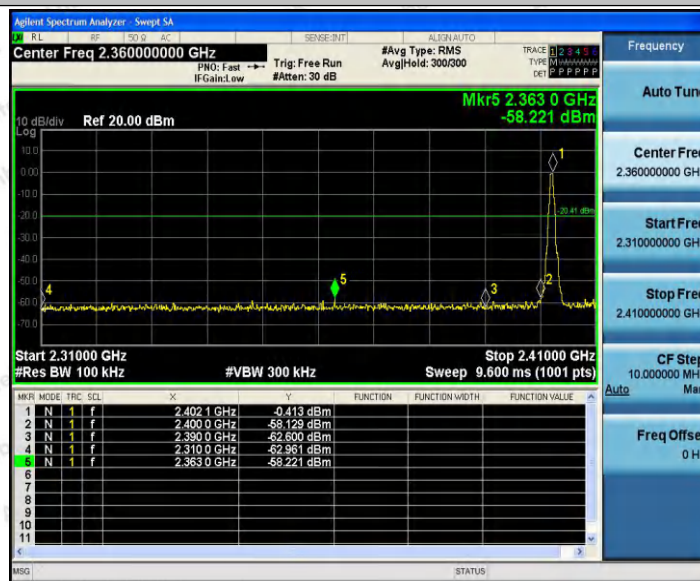
Appendix G: Band edge measurements

Test Result

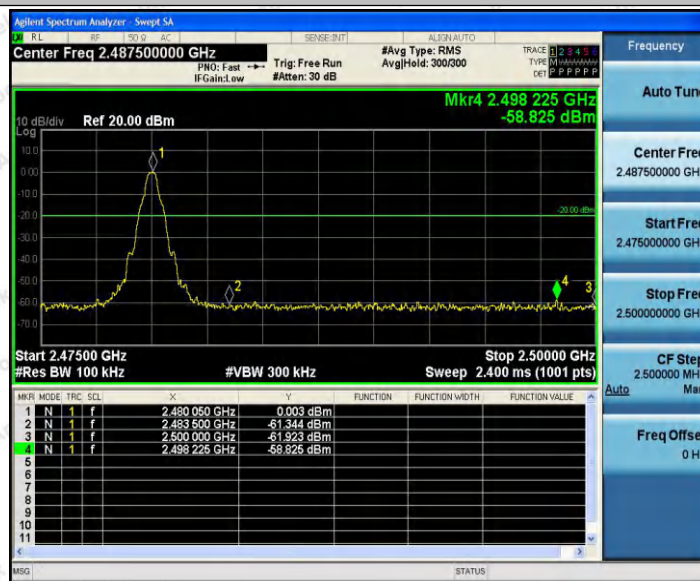
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.41	-58.22	≤-20.41	PASS
		High	2480	0.00	-58.83	≤-20	PASS
		Low	Hop	-0.47	-59.5	≤-20.47	PASS
		High	Hop	-0.45	-60.26	≤-20.45	PASS
2DH5	Ant1	Low	2402	-1.45	-58.11	≤-21.45	PASS
		High	2480	-1.38	-59.22	≤-21.38	PASS
		Low	Hop	-1.45	-58.9	≤-21.45	PASS
		High	Hop	-1.52	-62.91	≤-21.52	PASS
3DH5	Ant1	Low	2402	-1.47	-55.07	≤-21.47	PASS
		High	2480	-1.64	-59.01	≤-21.64	PASS
		Low	Hop	-4.70	-59.36	≤-24.7	PASS
		High	Hop	-1.90	-61.52	≤-21.9	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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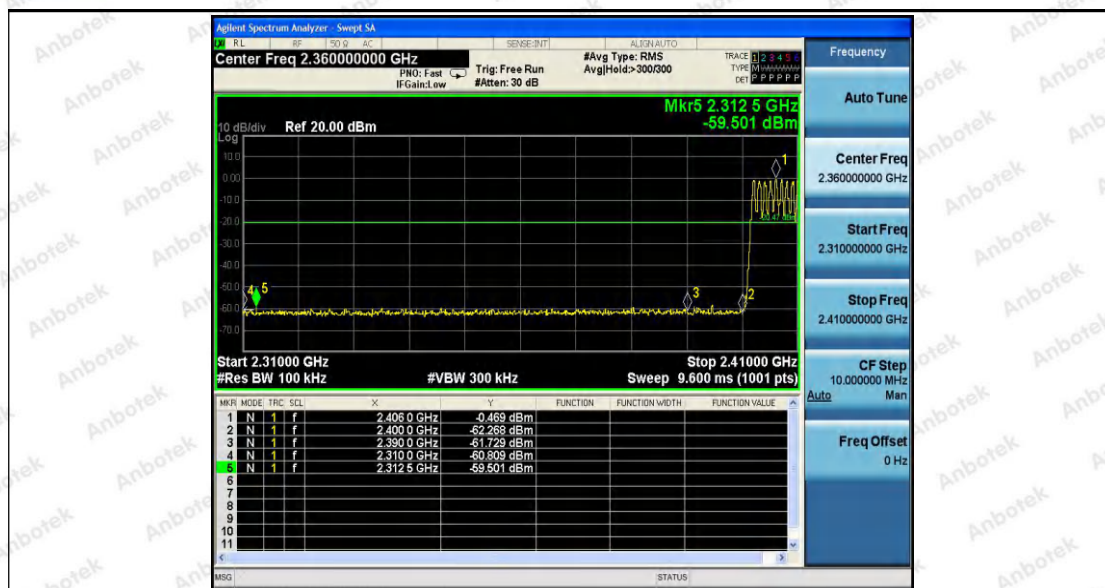
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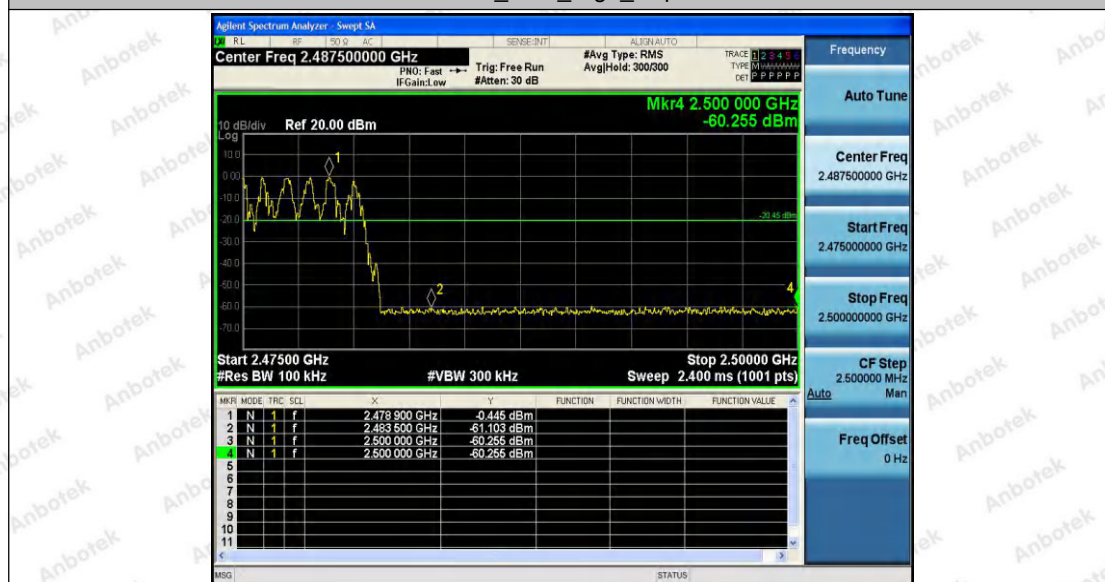
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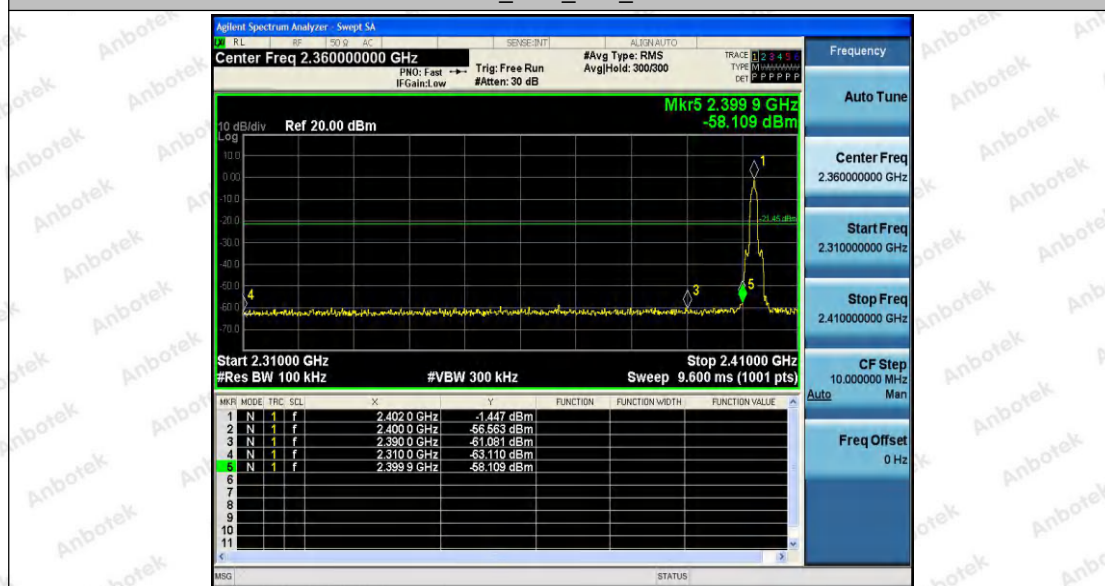
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



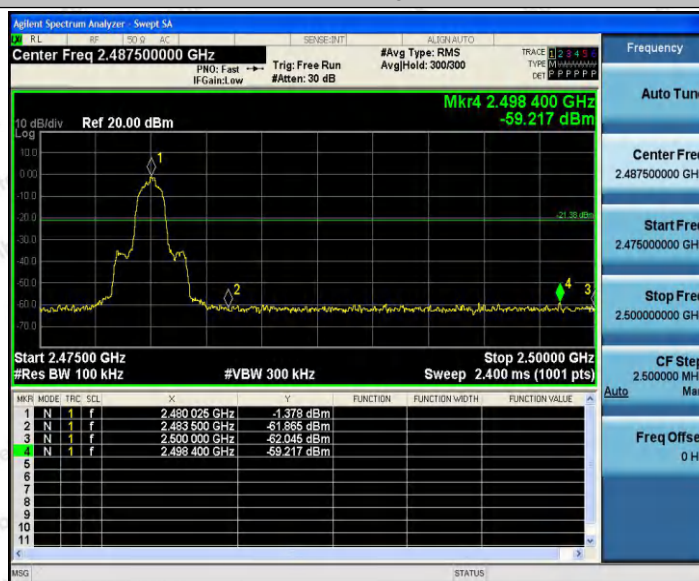
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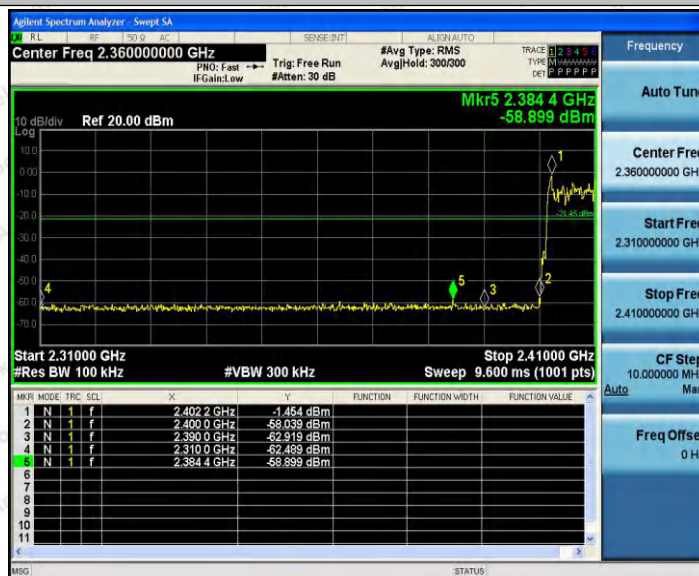
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



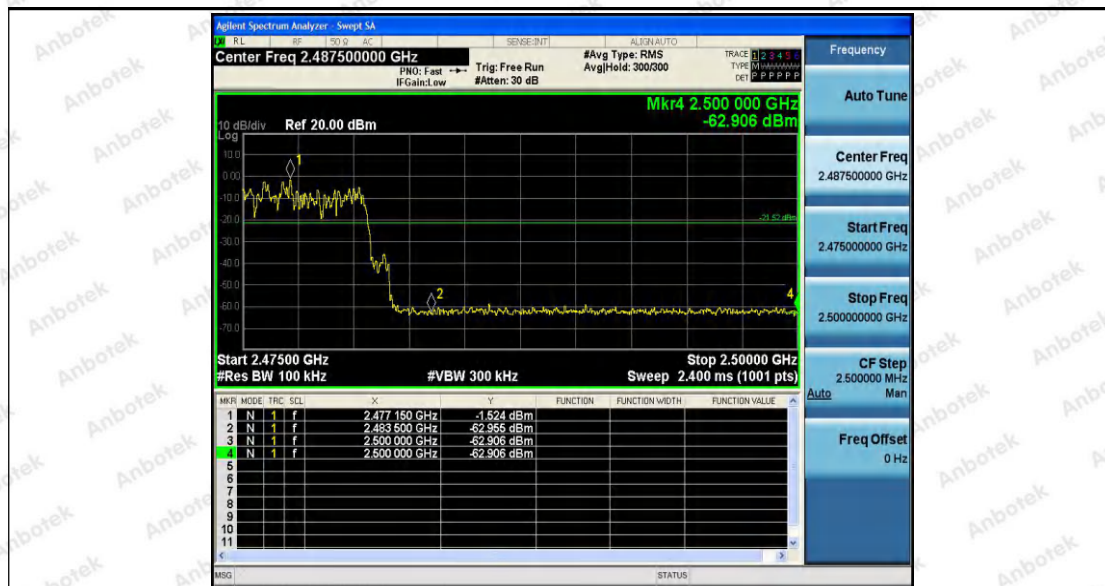
2DH5_Ant1_High_Hop

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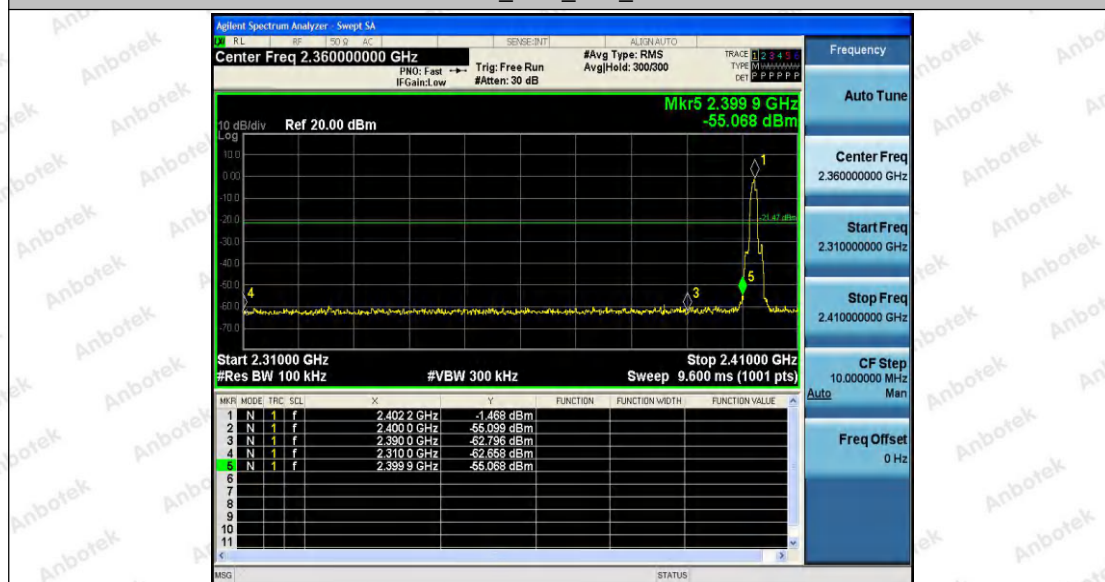
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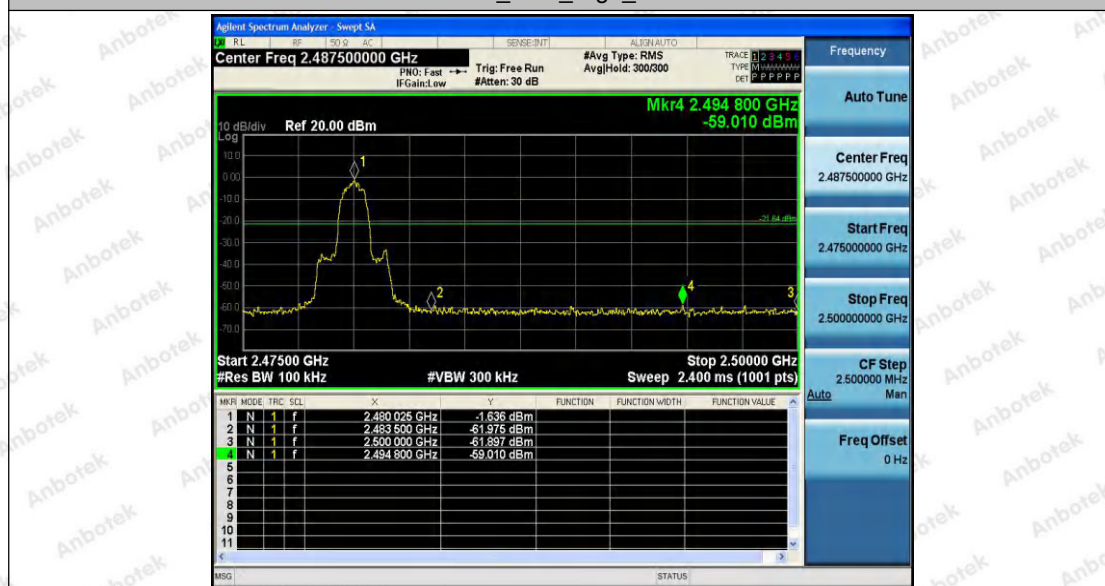
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

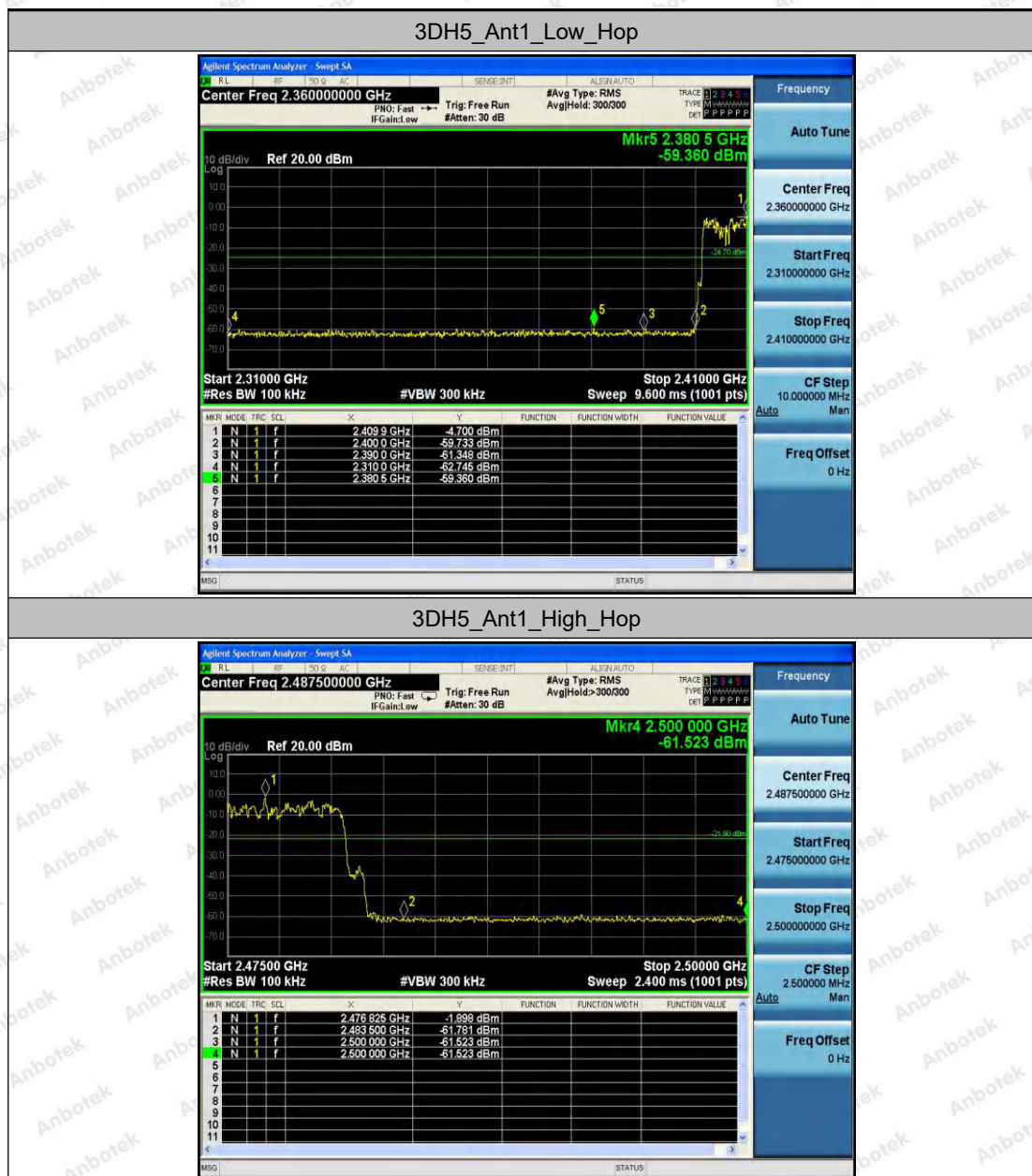


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Appendix H: Conducted Spurious Emission

Test Result

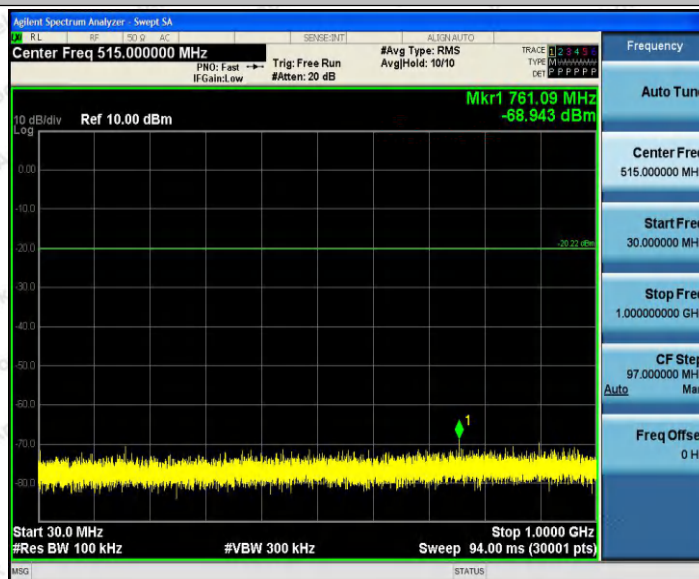
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-68.94	≤-20.22	PASS
			1000~26500	-0.22	-55.32	≤-20.22	PASS
		2441	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-69.56	≤-20.36	PASS
			1000~26500	-0.36	-54.99	≤-20.36	PASS
		2480	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-70.19	≤-20.11	PASS
			1000~26500	-0.11	-54.8	≤-20.11	PASS
2DH5	Ant1	2402	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-69.75	≤-21.53	PASS
			1000~26500	-1.53	-55.22	≤-21.53	PASS
		2441	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-69.91	≤-22.13	PASS
			1000~26500	-2.13	-54.41	≤-22.13	PASS
		2480	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-70.93	≤-21.74	PASS
			1000~26500	-1.74	-54.81	≤-21.74	PASS
3DH5	Ant1	2402	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-69.6	≤-21.65	PASS
			1000~26500	-1.65	-55.69	≤-21.65	PASS
		2441	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-70.11	≤-21.51	PASS
			1000~26500	-1.51	-55.08	≤-21.51	PASS
		2480	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-69.38	≤-21.34	PASS
			1000~26500	-1.34	-55.06	≤-21.34	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



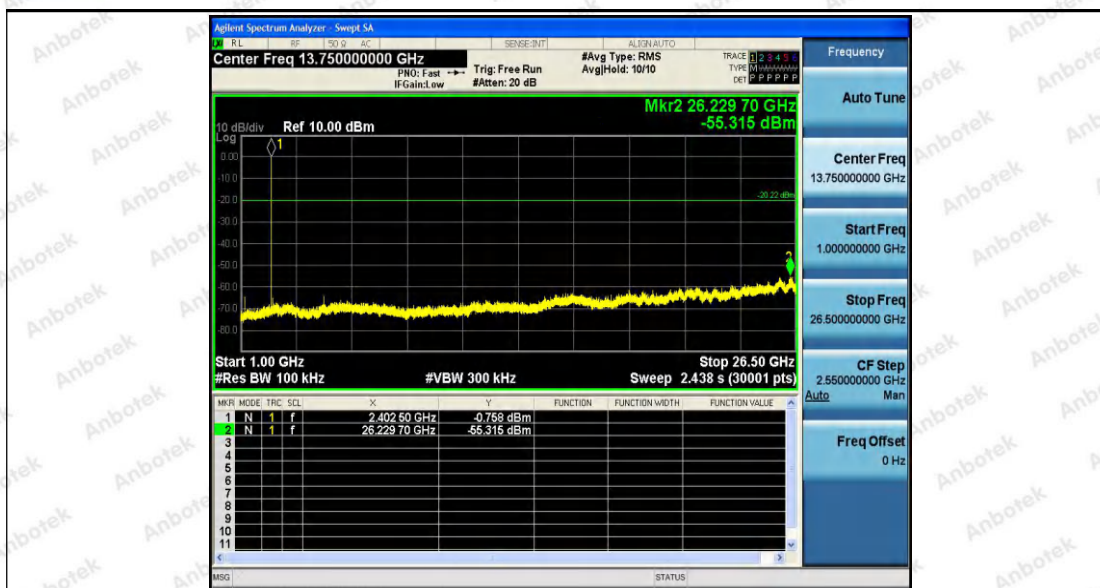
DH5_Ant1_2402_1000~26500

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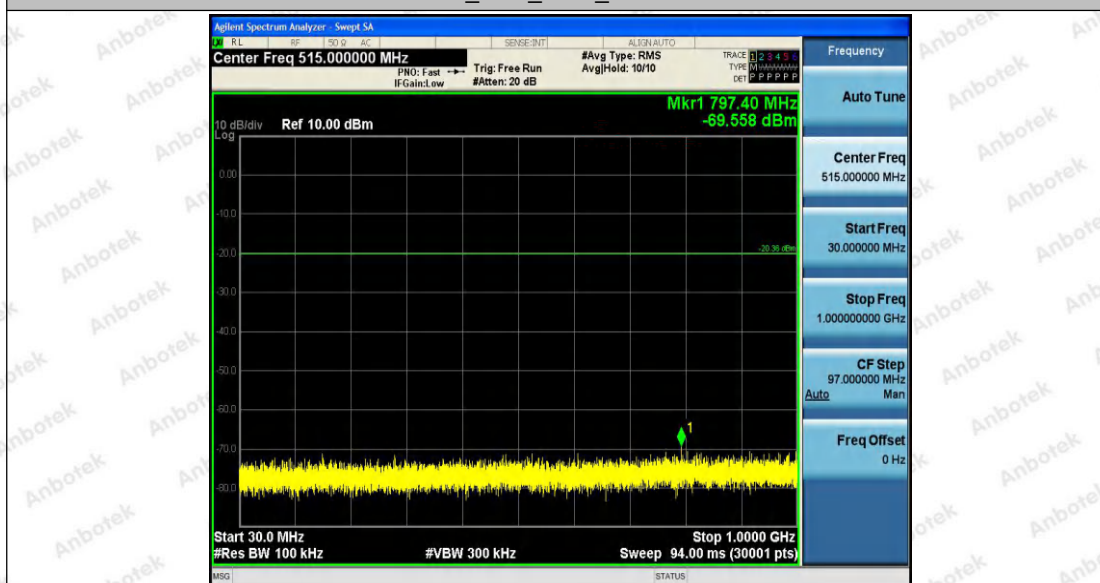
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



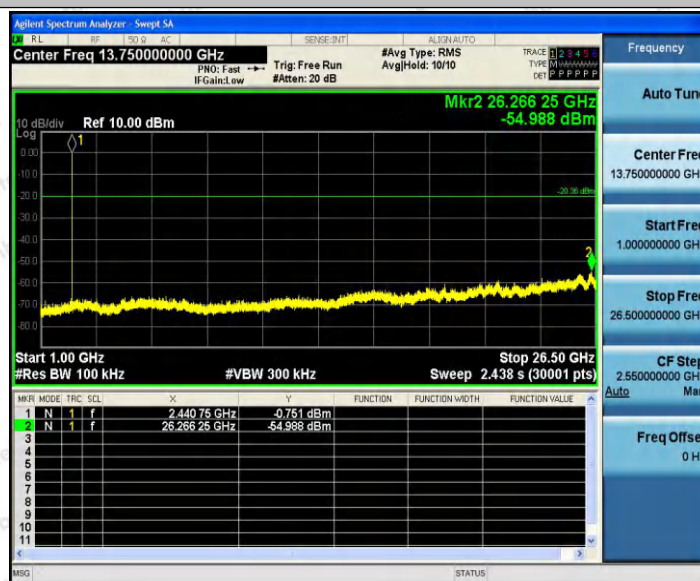
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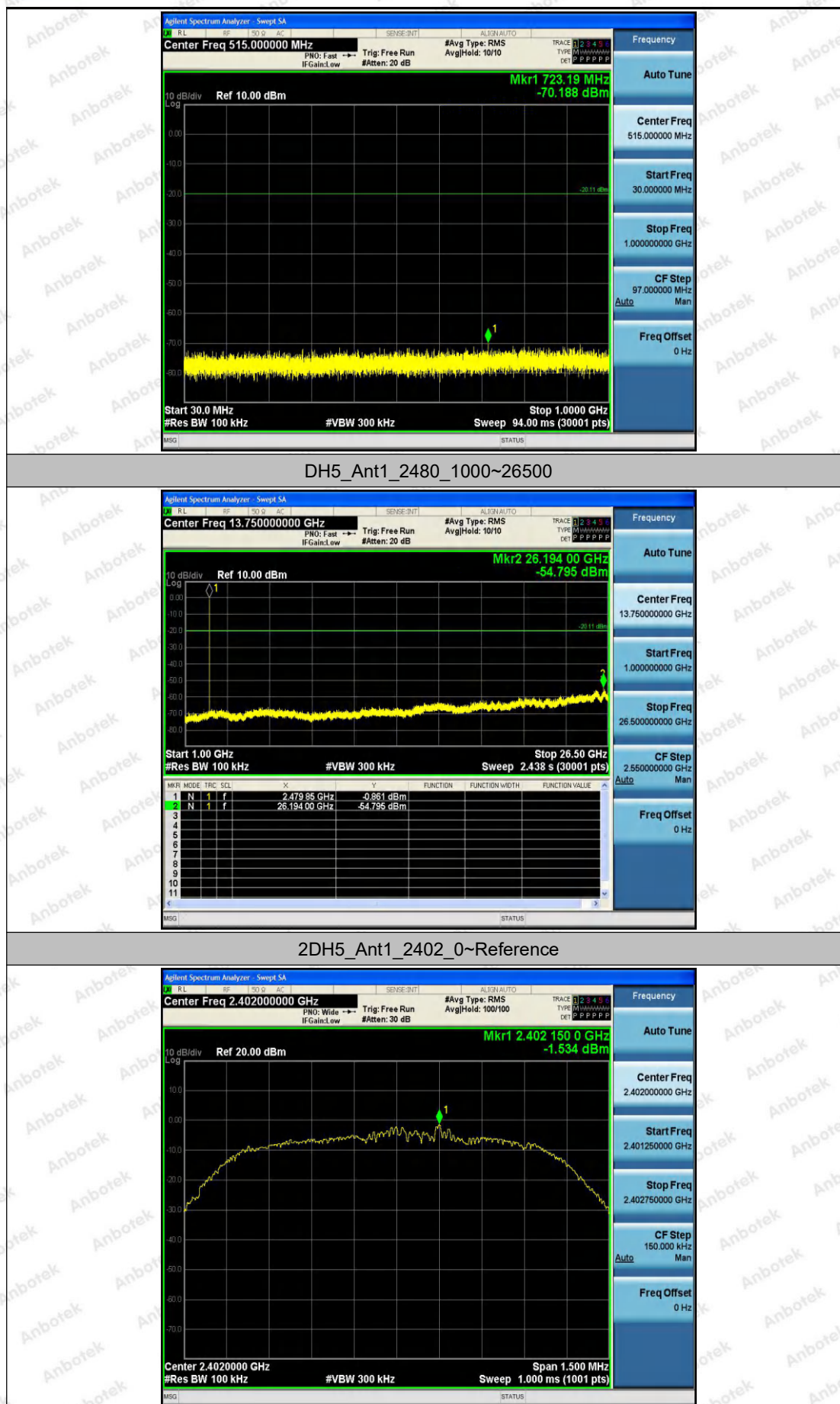
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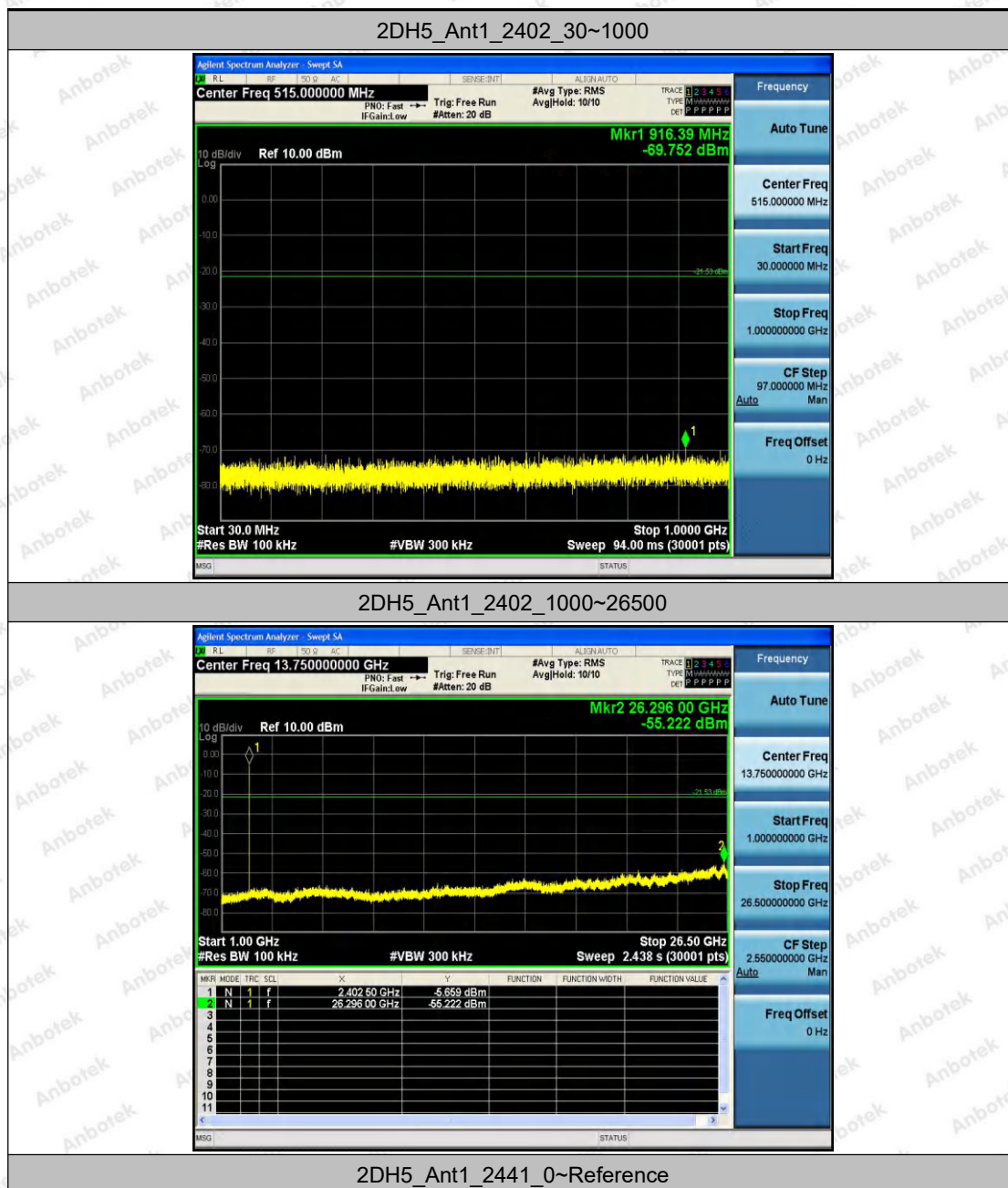


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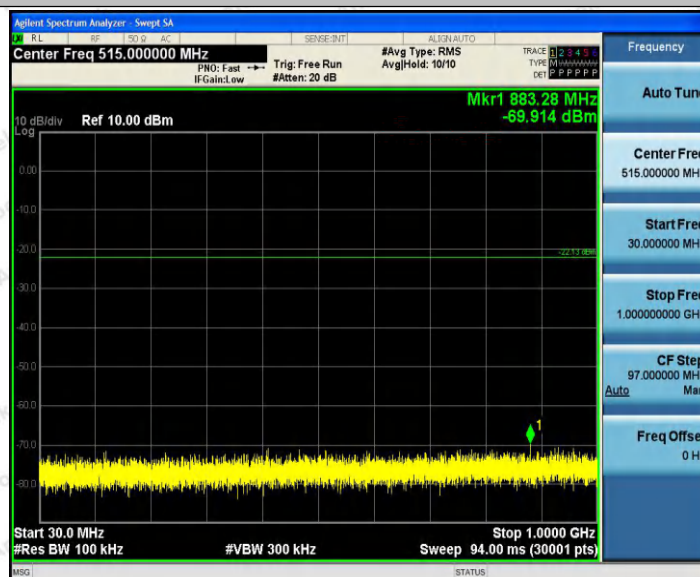
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2DH5 Ant1 2441 30~1000



2DH5 Ant1 2441 1000~26500



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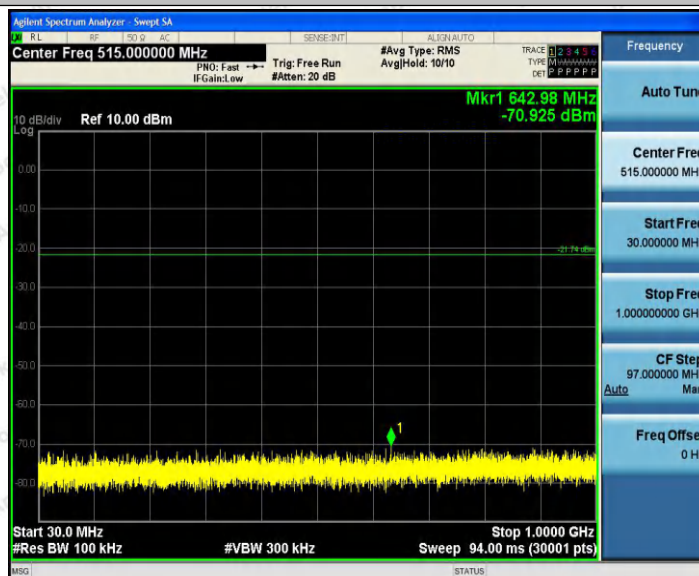
400-003-0500

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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



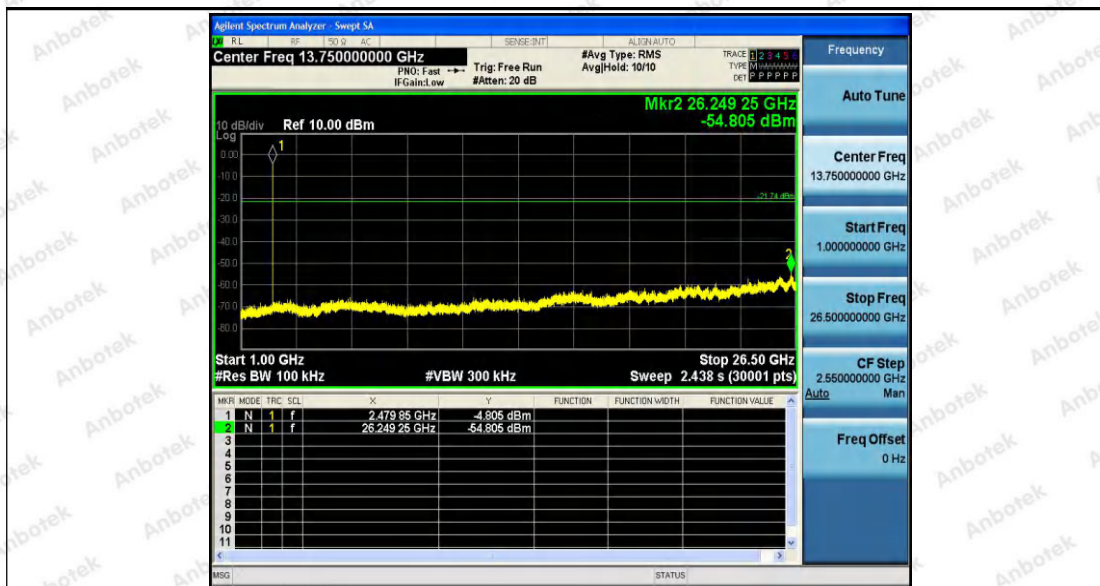
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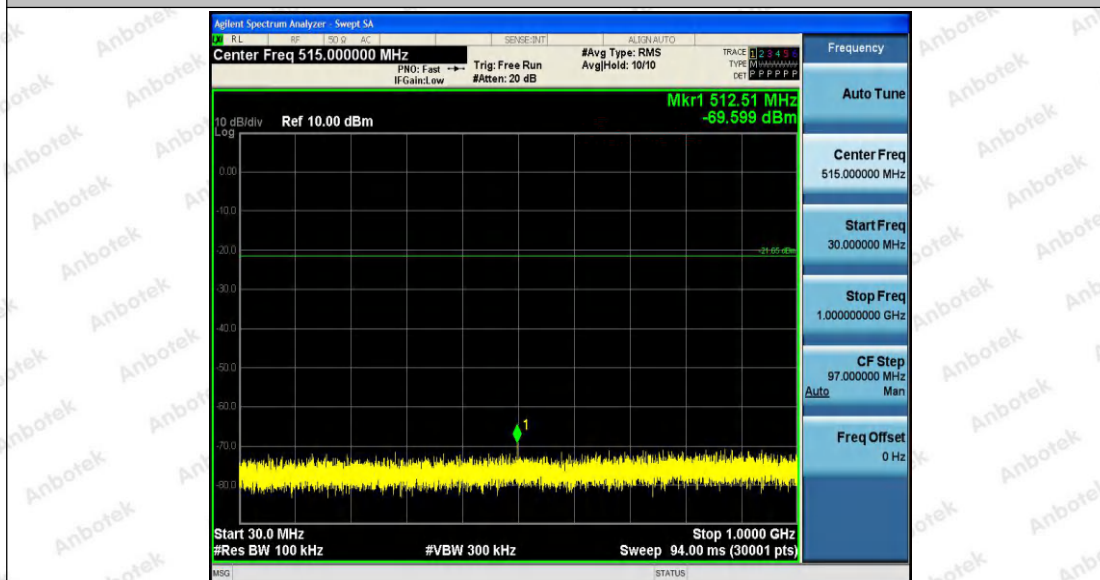
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



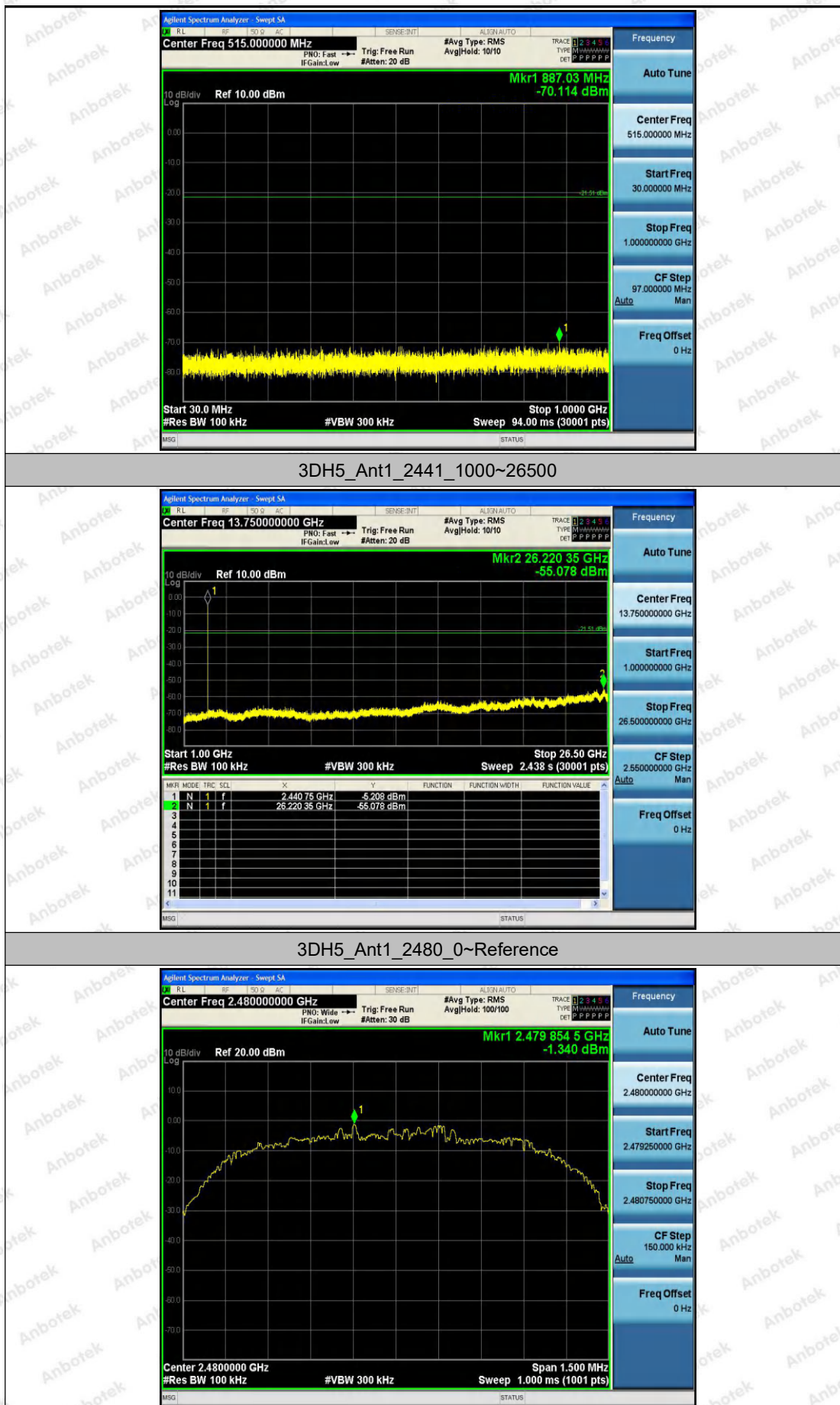
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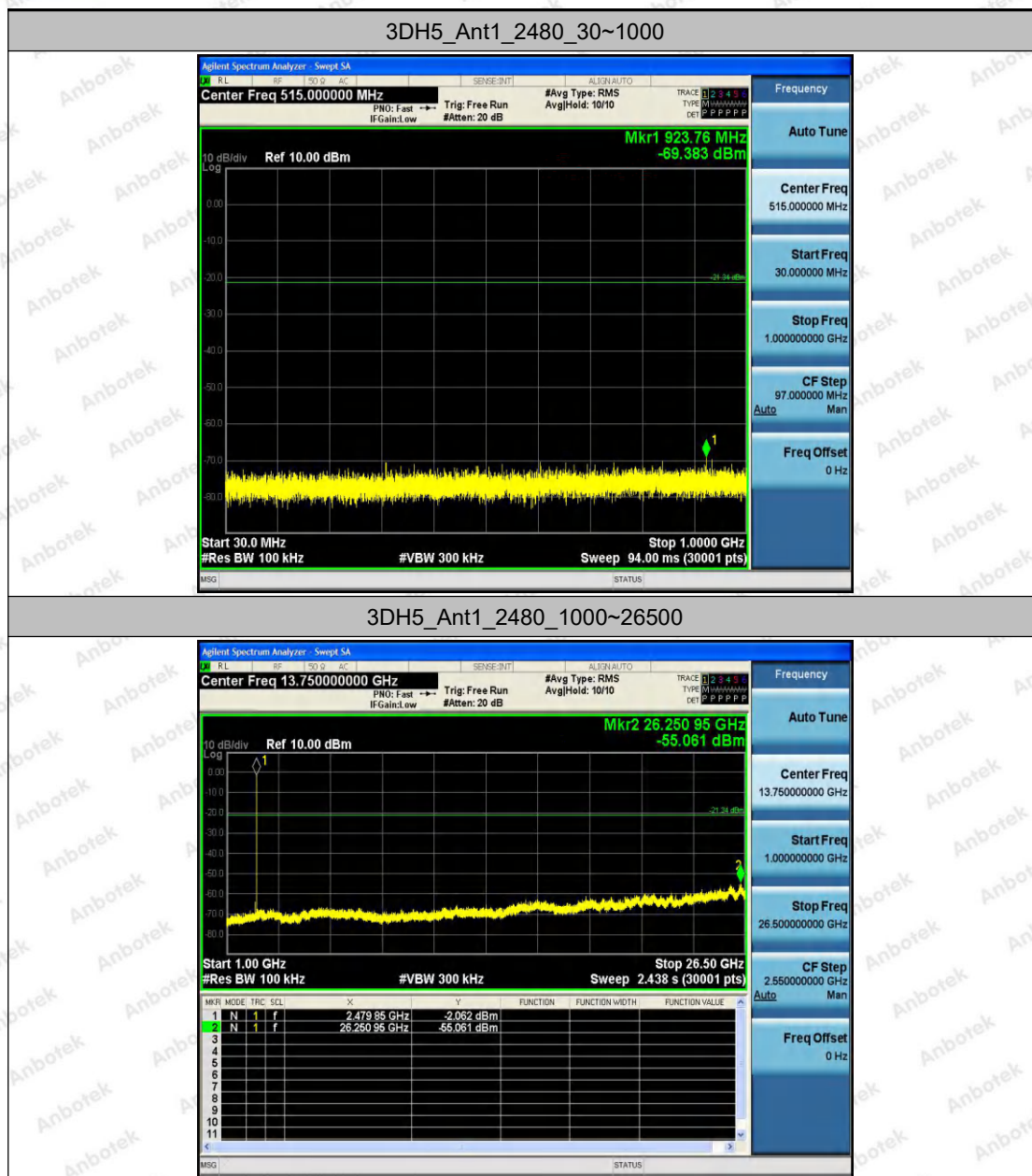


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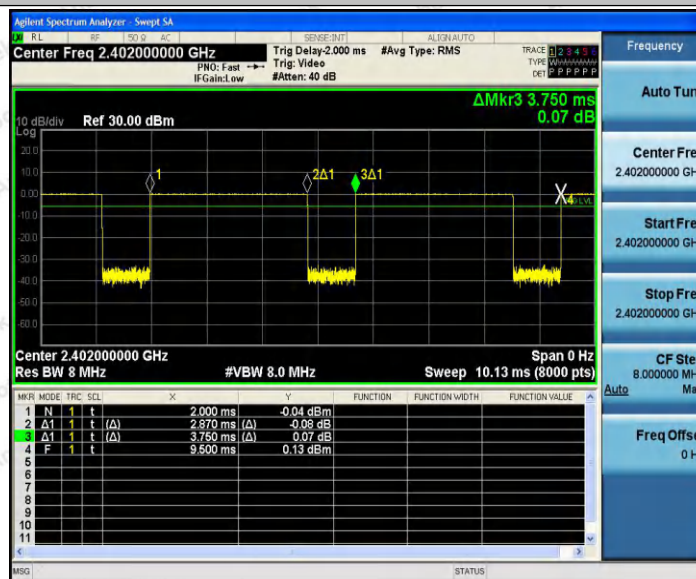
Appendix I: Duty Cycle

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	2.88	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

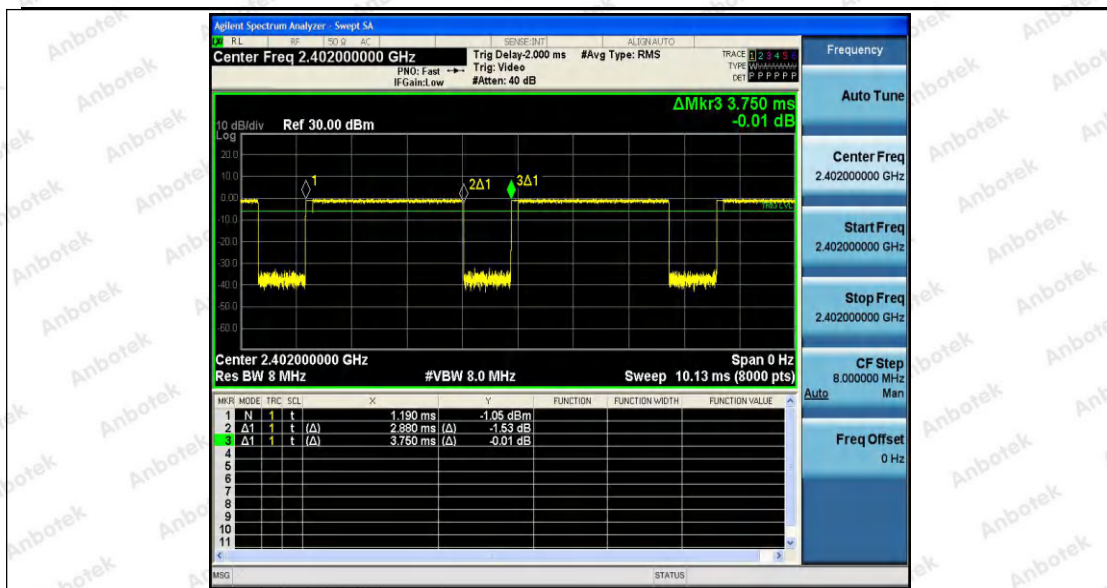
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---