

Appendix Test Data

Report No.:	18220WC10215301	Test Sample No.:	1-2-2
Start Test Date:	2021.9.17	Finish Test Date:	2021.11.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	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	0.861	2401.535	2402.396	---	PASS
		2441	0.948	2440.529	2441.477	---	PASS
		2480	0.957	2479.523	2480.480	---	PASS
2DH5	Ant1	2402	1.224	2401.370	2402.594	---	PASS
		2441	1.212	2440.382	2441.594	---	PASS
		2480	1.323	2479.325	2480.648	---	PASS
3DH5	Ant1	2402	1.245	2401.355	2402.600	---	PASS
		2441	1.278	2440.340	2441.618	---	PASS
		2480	1.266	2479.340	2480.606	---	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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3DH5_Ant1_2480



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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	0.90996	2401.54 0	2402.450	---	PASS
		2441	0.91066	2440.53 9	2441.449	---	PASS
		2480	0.89362	2479.54 4	2480.438	---	PASS
2DH5	Ant1	2402	1.1755	2401.39 8	2402.574	---	PASS
		2441	1.1747	2440.39 8	2441.572	---	PASS
		2480	1.1758	2479.39 8	2480.573	---	PASS
3DH5	Ant1	2402	1.1996	2401.37 8	2402.578	---	PASS
		2441	1.1865	2440.38 6	2441.572	---	PASS
		2480	1.1828	2479.38 8	2480.571	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

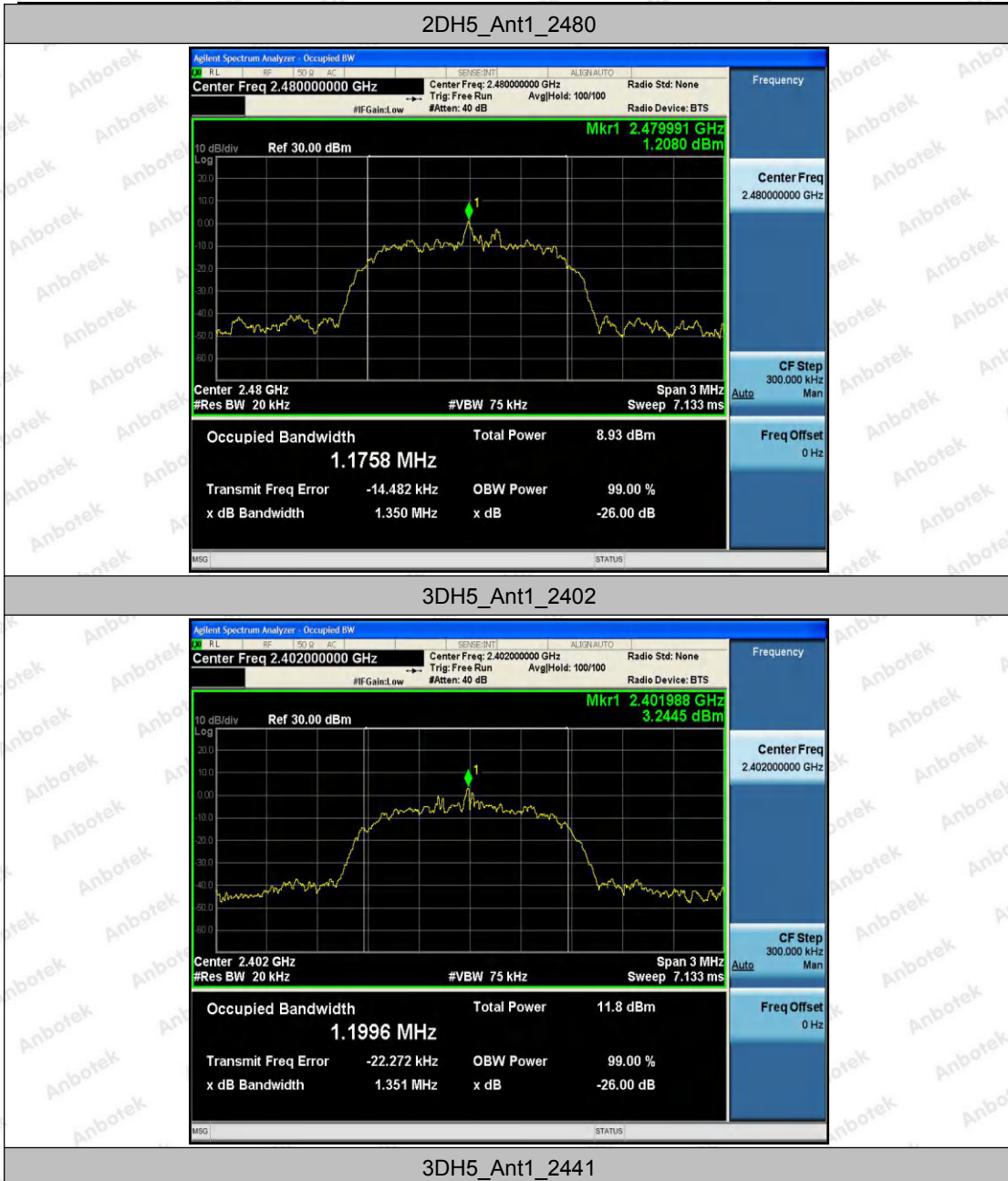


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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.55	≤20.97	PASS
		2441	7.58	≤20.97	PASS
		2480	6.52	≤20.97	PASS
2DH5	Ant1	2402	6.23	≤20.97	PASS
		2441	5.57	≤20.97	PASS
		2480	3.18	≤20.97	PASS
3DH5	Ant1	2402	6.5	≤20.97	PASS
		2441	5.82	≤20.97	PASS
		2480	3.57	≤20.97	PASS

Test Graphs



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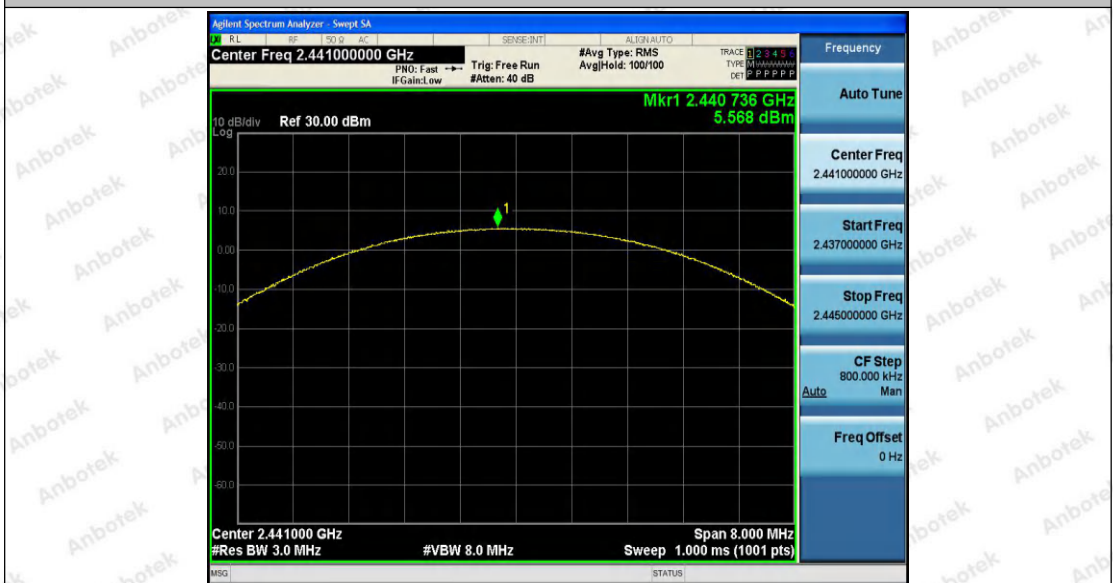
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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.882	≥ 0.638	PASS
2DH5	Ant1	Hop	1.03	≥ 0.882	PASS
3DH5	Ant1	Hop	1.01	≥ 0.852	PASS

Test Graphs





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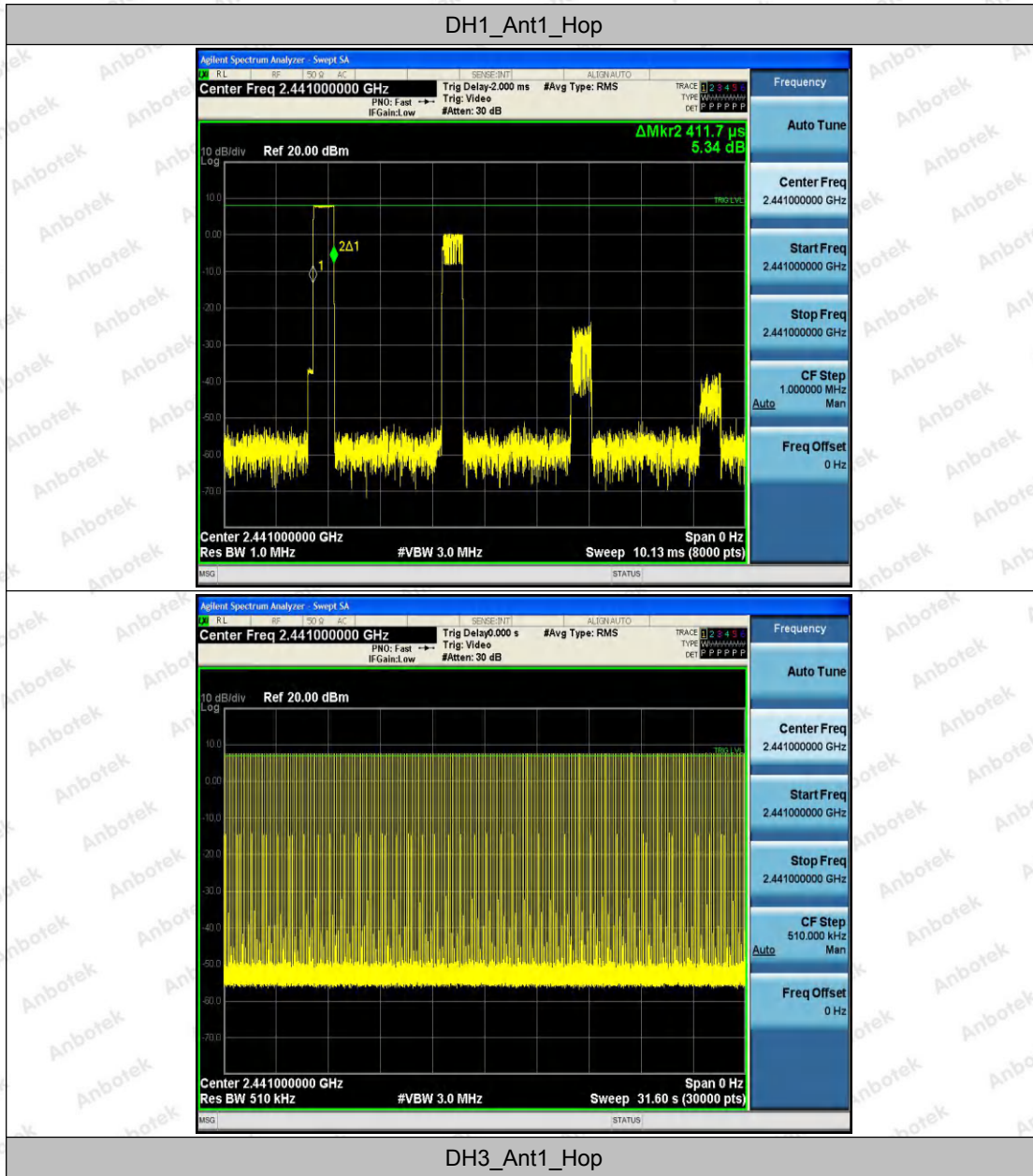
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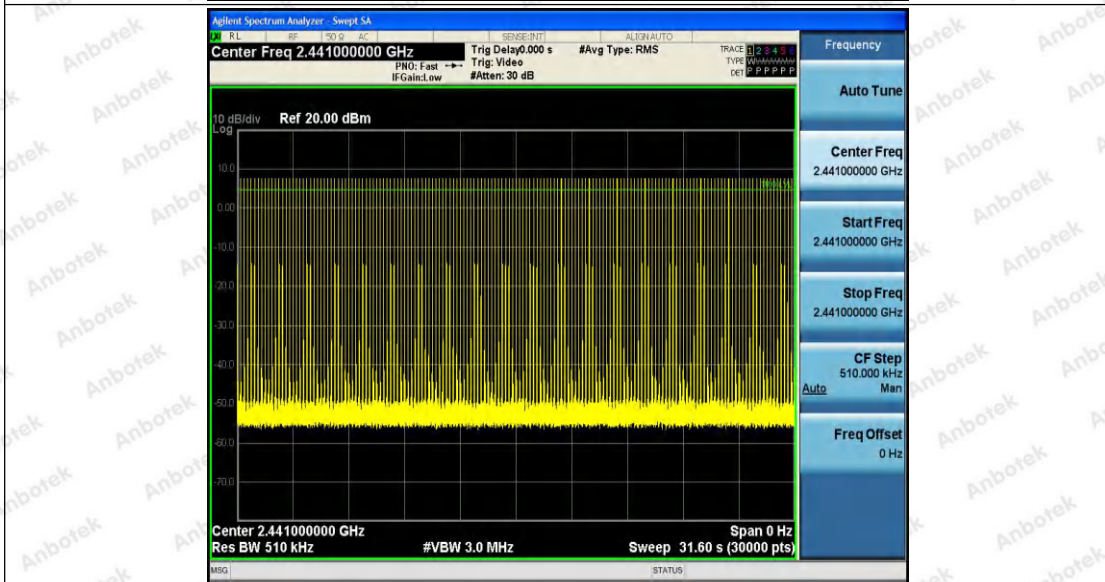
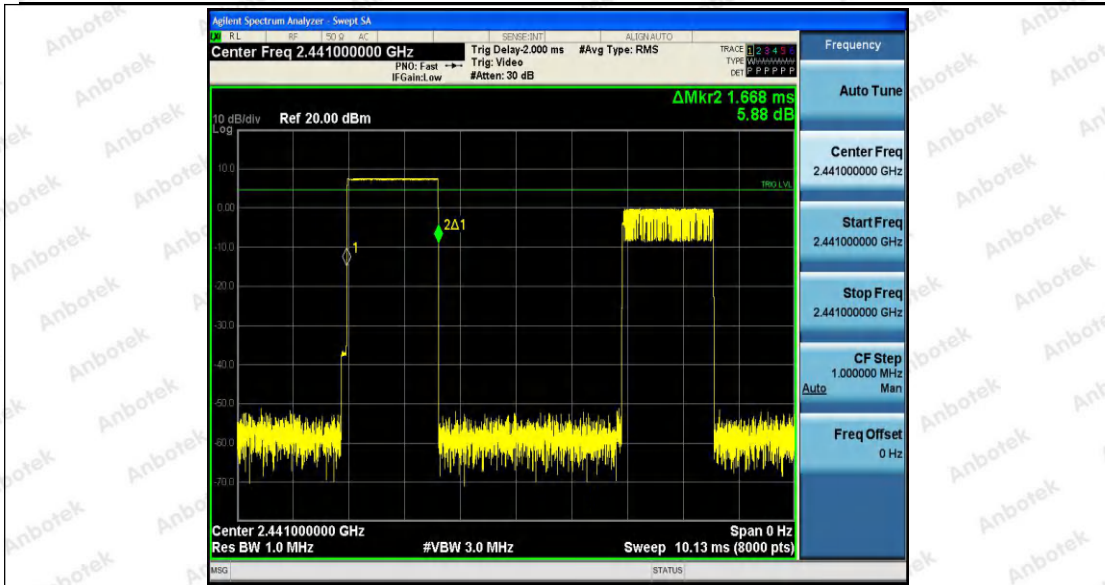
Appendix E: Time of occupancy

Test Result

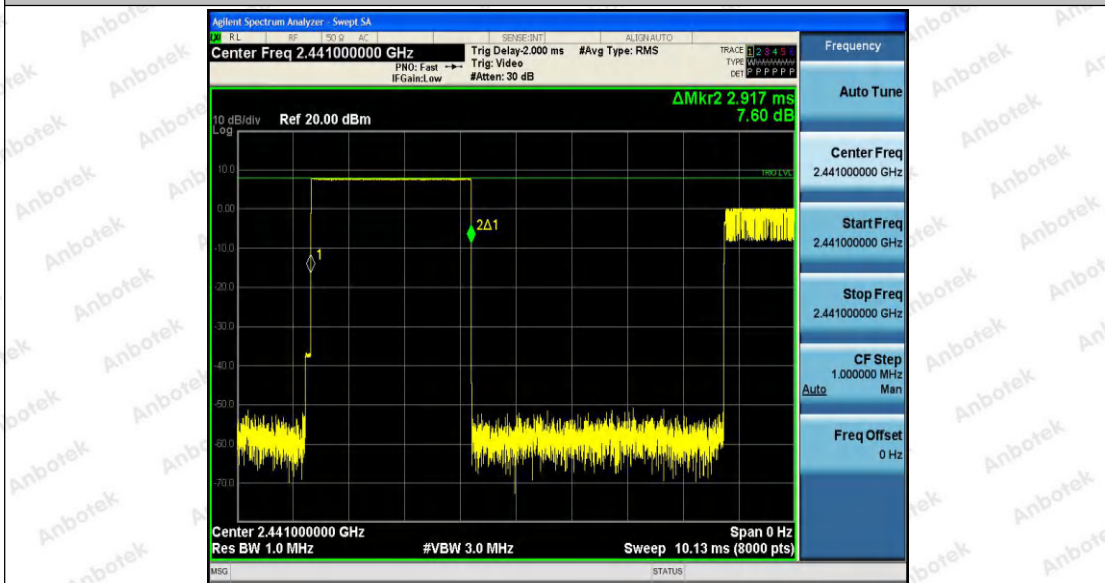
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.41	319	0.131	≤0.4	PASS
DH3	Ant1	Hop	1.67	159	0.265	≤0.4	PASS
DH5	Ant1	Hop	2.92	107	0.312	≤0.4	PASS
2DH1	Ant1	Hop	0.43	319	0.137	≤0.4	PASS
2DH3	Ant1	Hop	1.68	159	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.93	107	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.43	319	0.138	≤0.4	PASS
3DH3	Ant1	Hop	1.68	159	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.93	107	0.314	≤0.4	PASS

Test Graphs


DH3_Ant1_Hop



DH5_Ant1_Hop

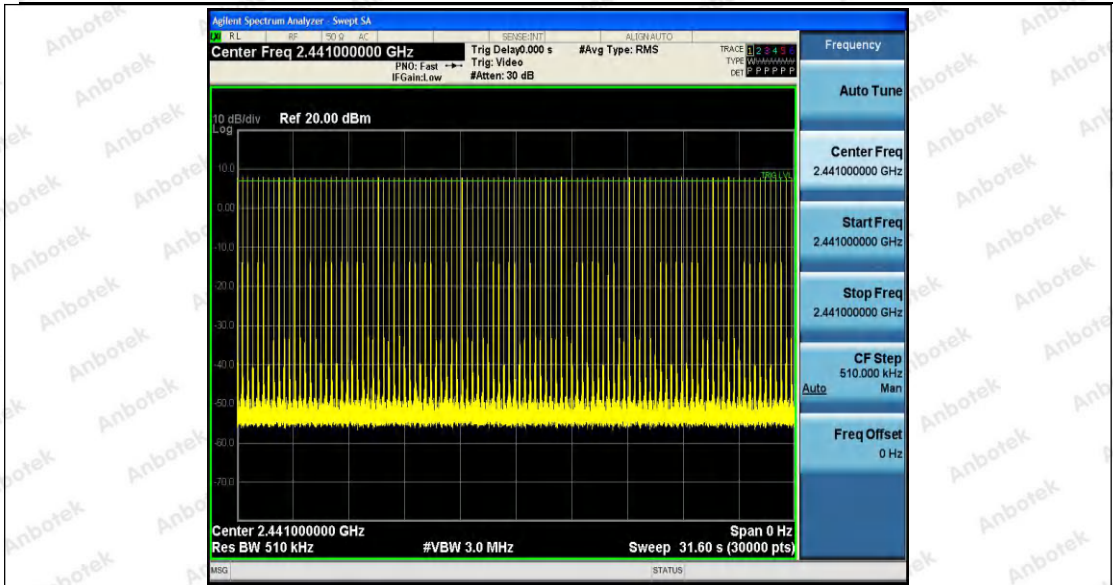


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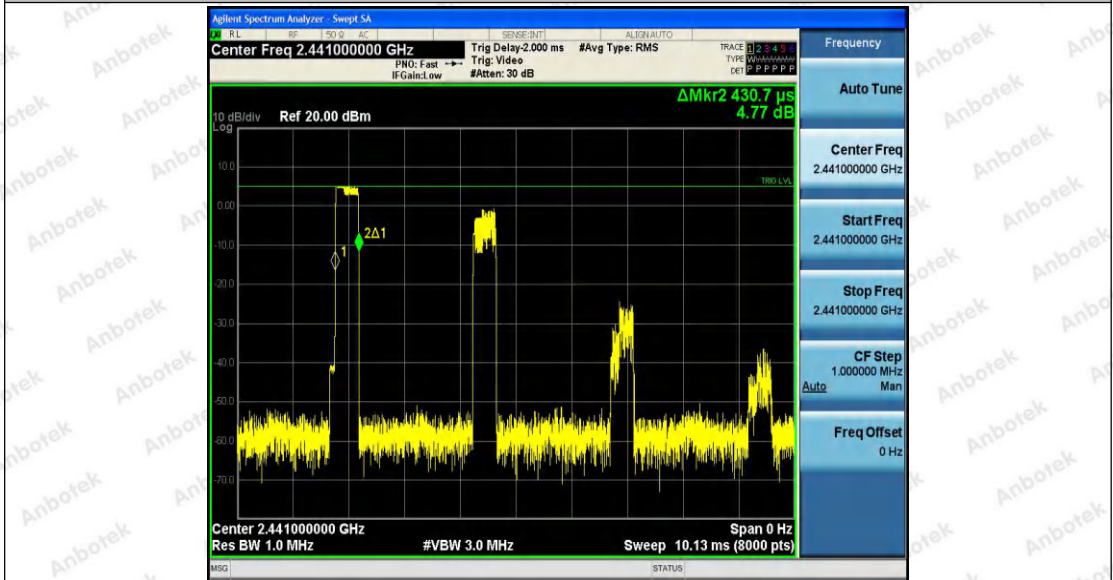
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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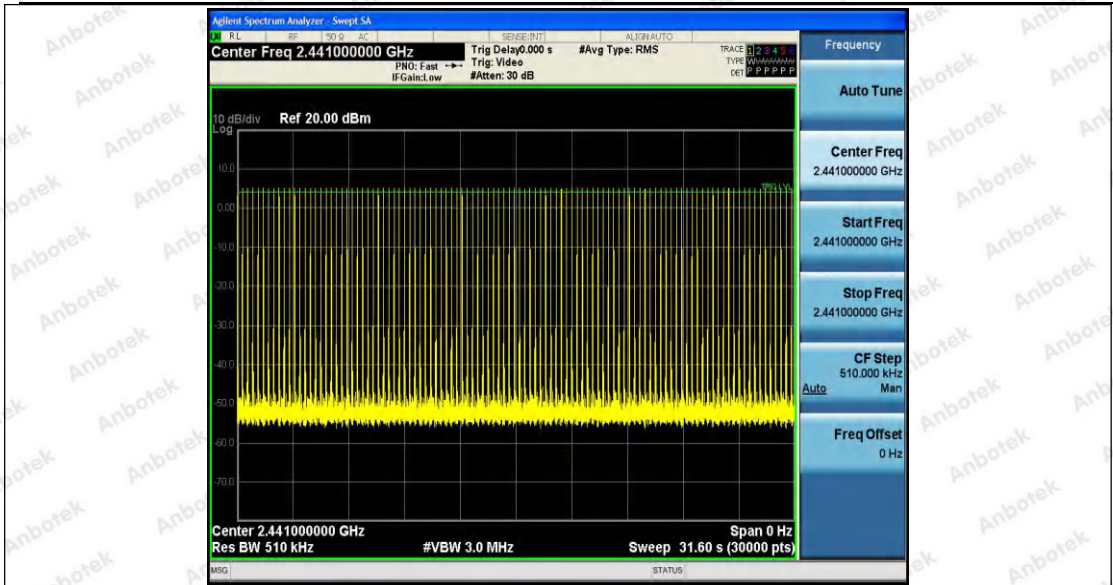
2DH5_Ant1_Hop

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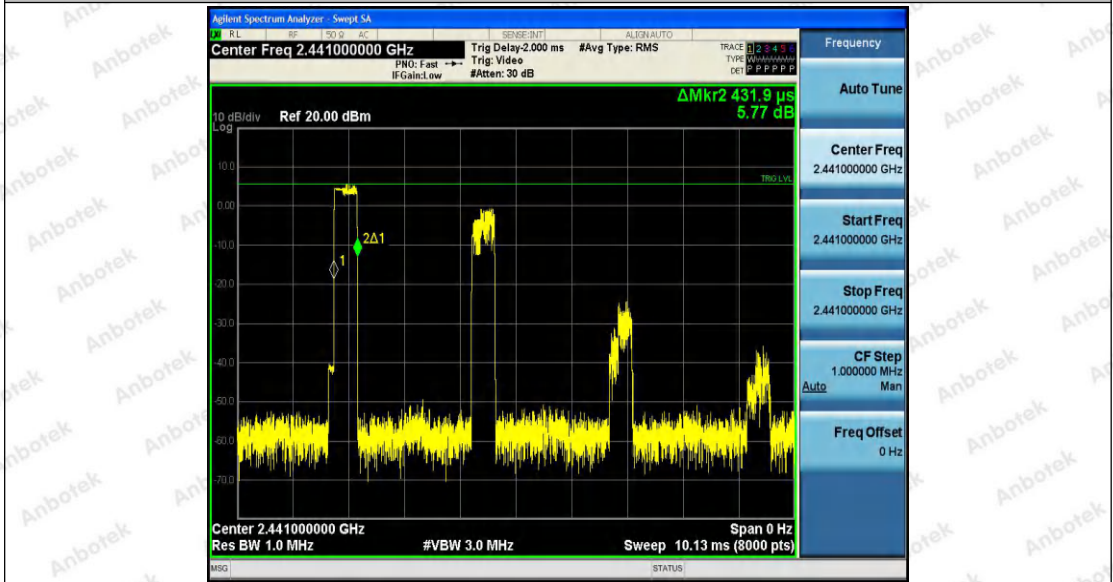
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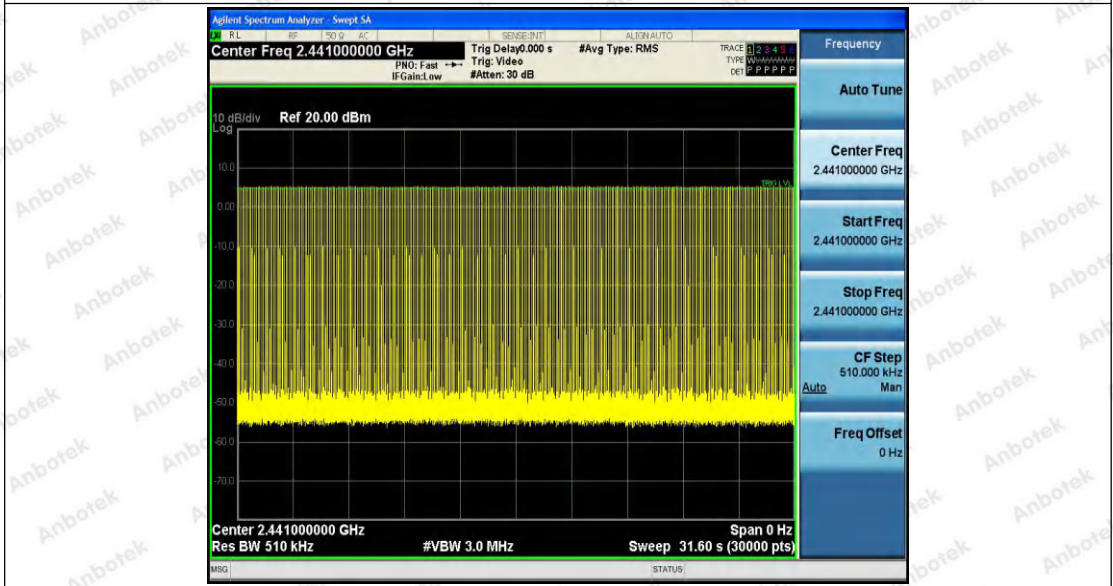
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3DH1_Ant1_Hop



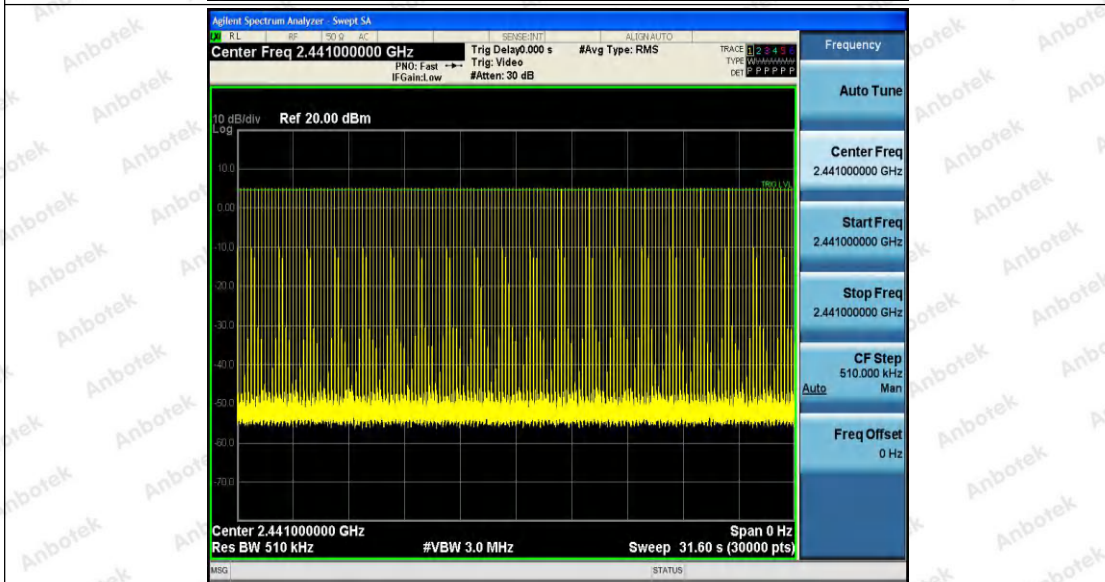
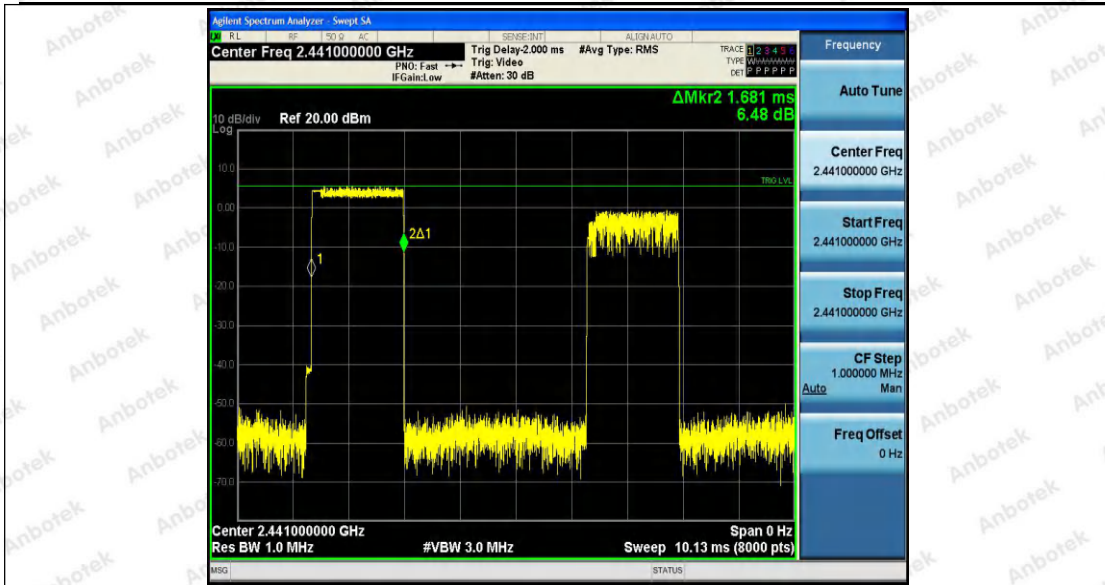
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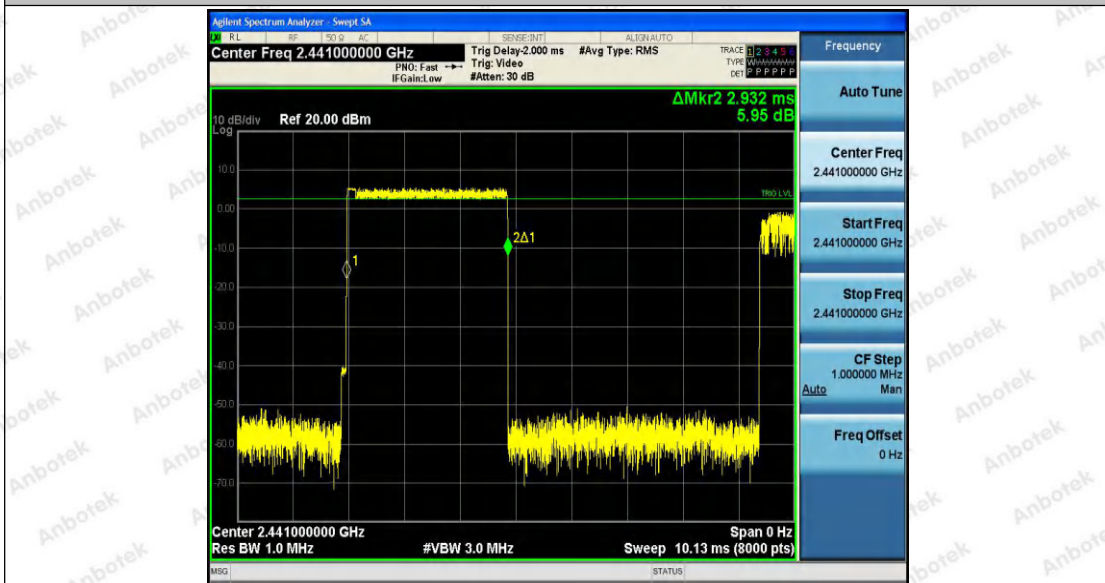
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3DH5_Ant1_Hop

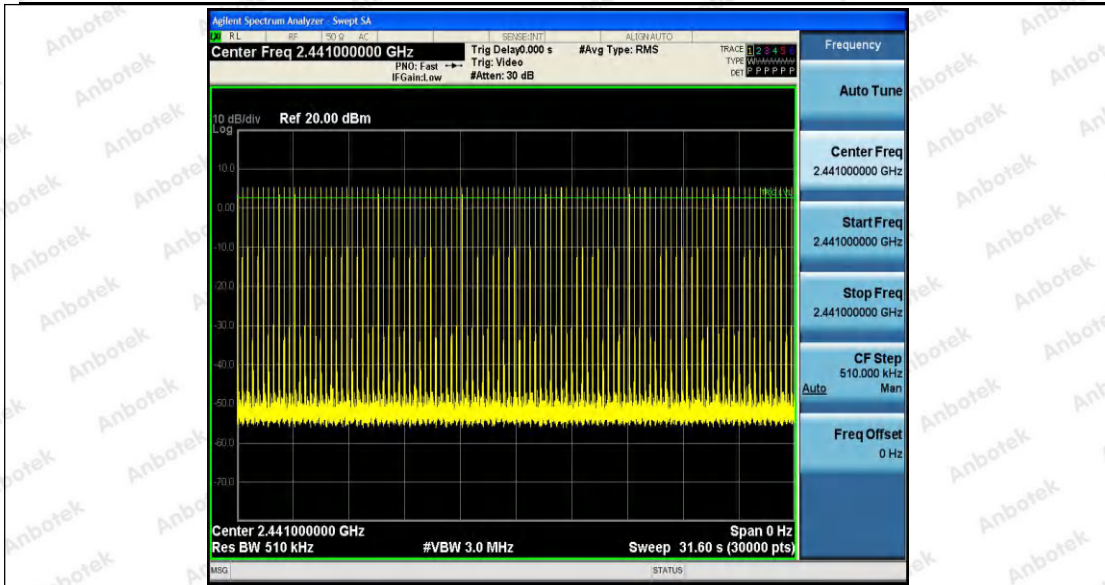


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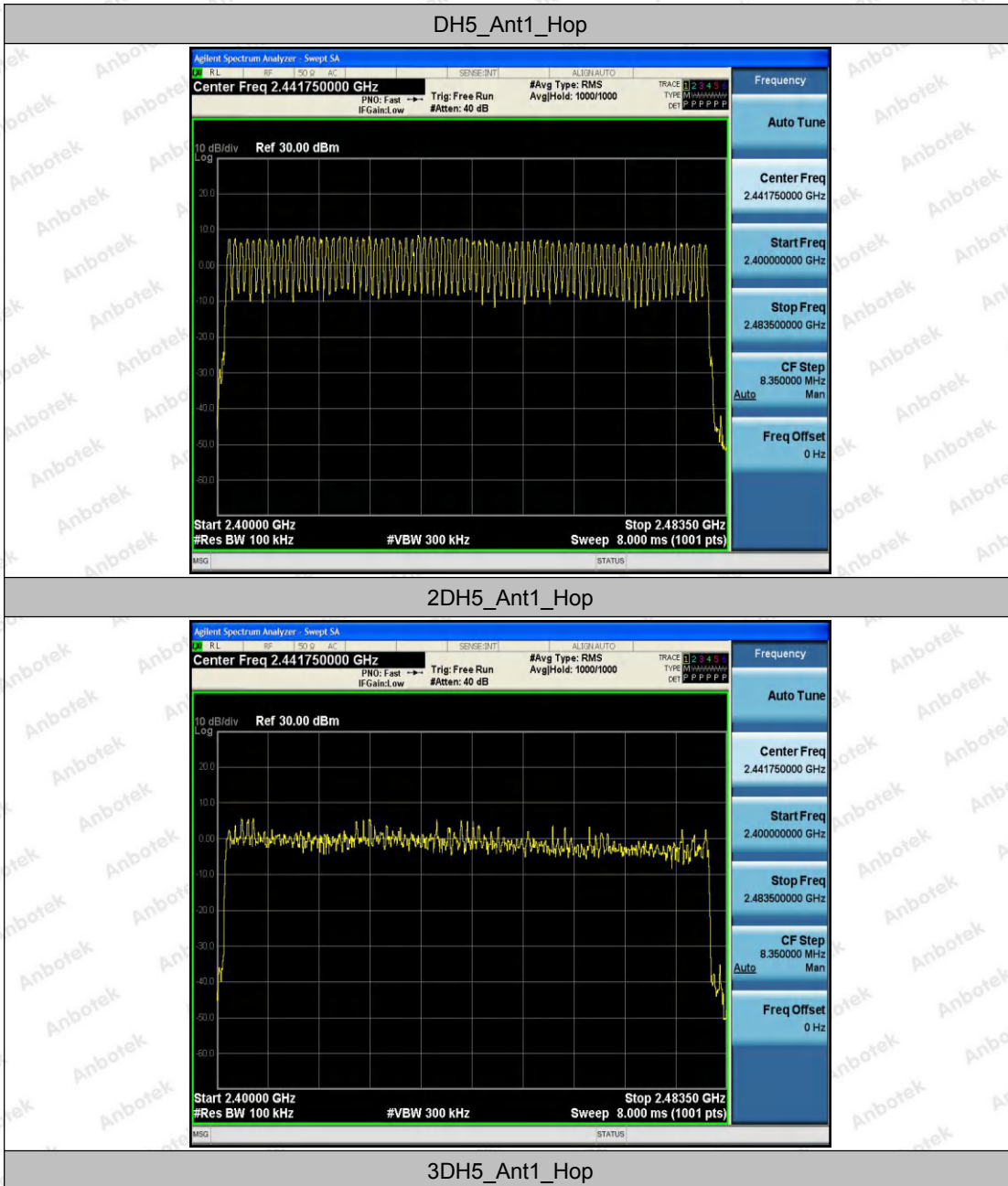
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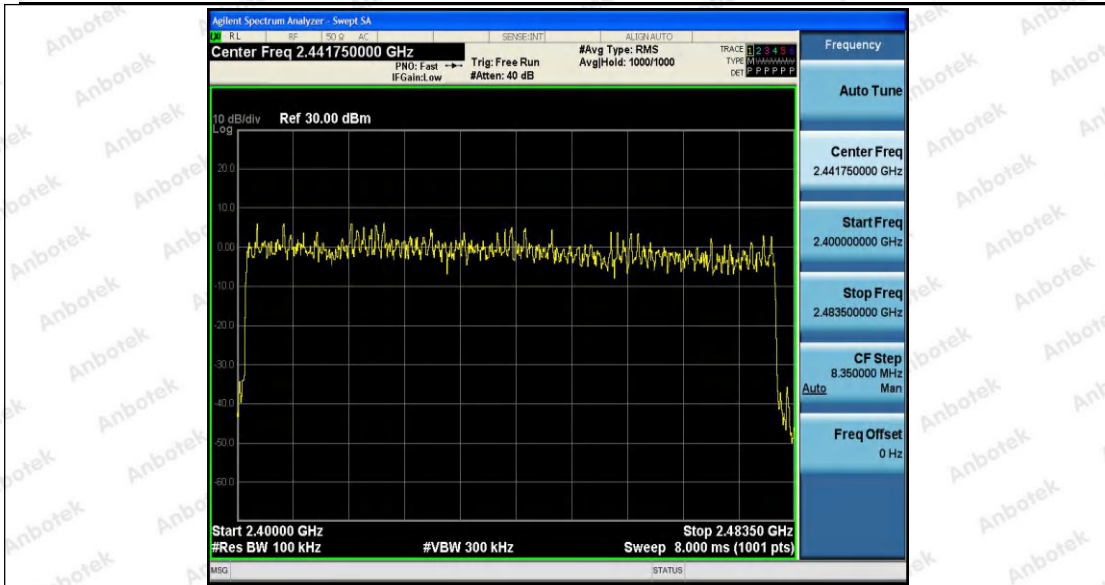
Appendix F: Number of hopping channels

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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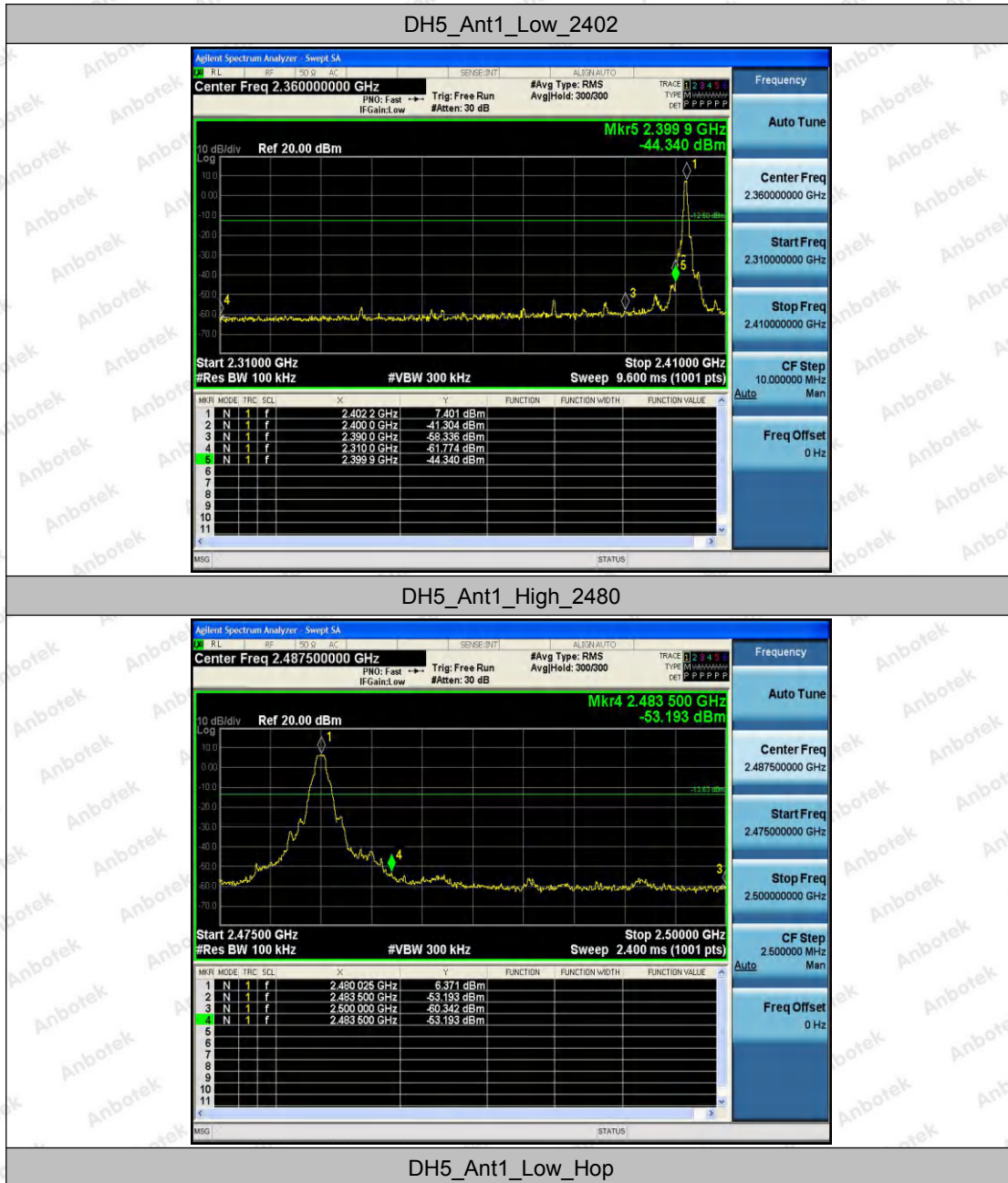
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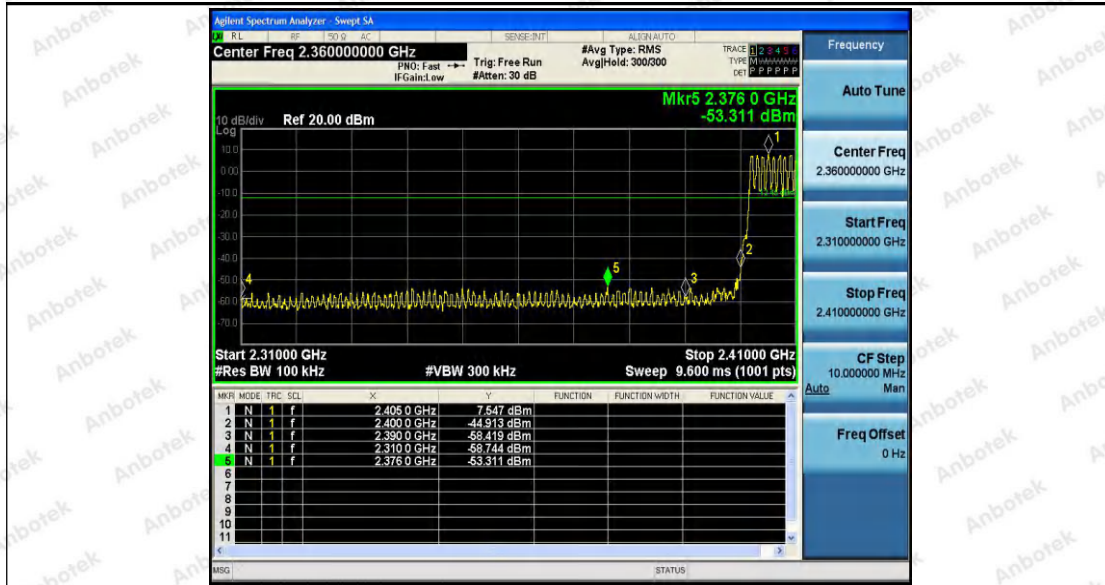
Appendix G: Band edge measurements

Test Result

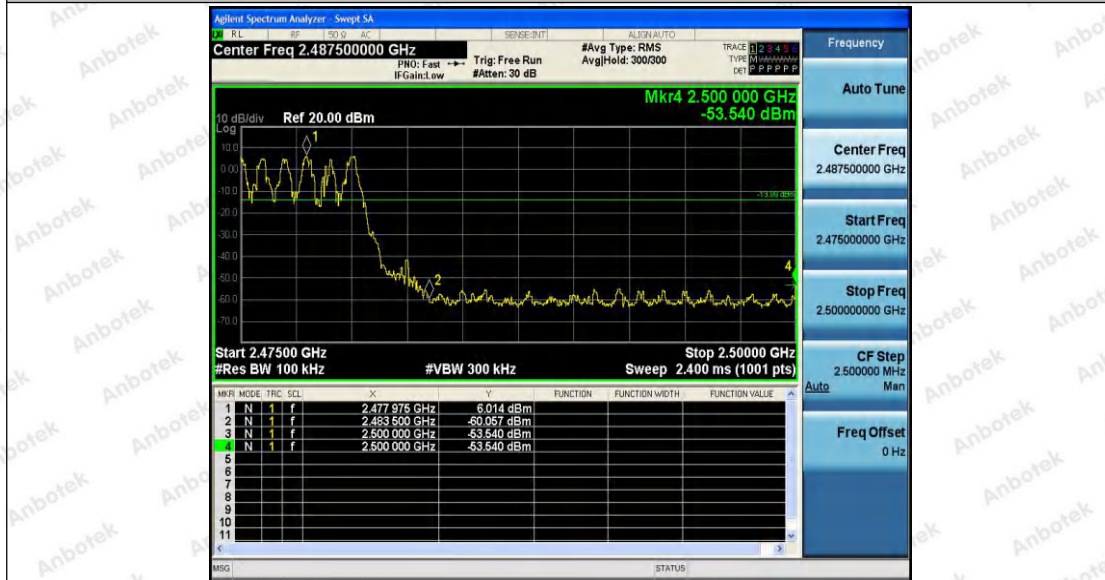
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.40	-44.34	≤-12.6	PASS
		High	2480	6.37	-53.19	≤-13.63	PASS
		Low	Hop	7.55	-53.31	≤-12.45	PASS
		High	Hop	6.01	-53.54	≤-13.99	PASS
2DH5	Ant1	Low	2402	5.22	-38.64	≤-14.78	PASS
		High	2480	2.47	-45.78	≤-17.53	PASS
		Low	Hop	3.30	-52.55	≤-16.7	PASS
		High	Hop	-0.90	-61.26	≤-20.9	PASS
3DH5	Ant1	Low	2402	5.27	-39.58	≤-14.73	PASS
		High	2480	2.93	-47.57	≤-17.07	PASS
		Low	Hop	2.31	-54.06	≤-17.69	PASS
		High	Hop	0.29	-62.1	≤-19.72	PASS

Test Graphs

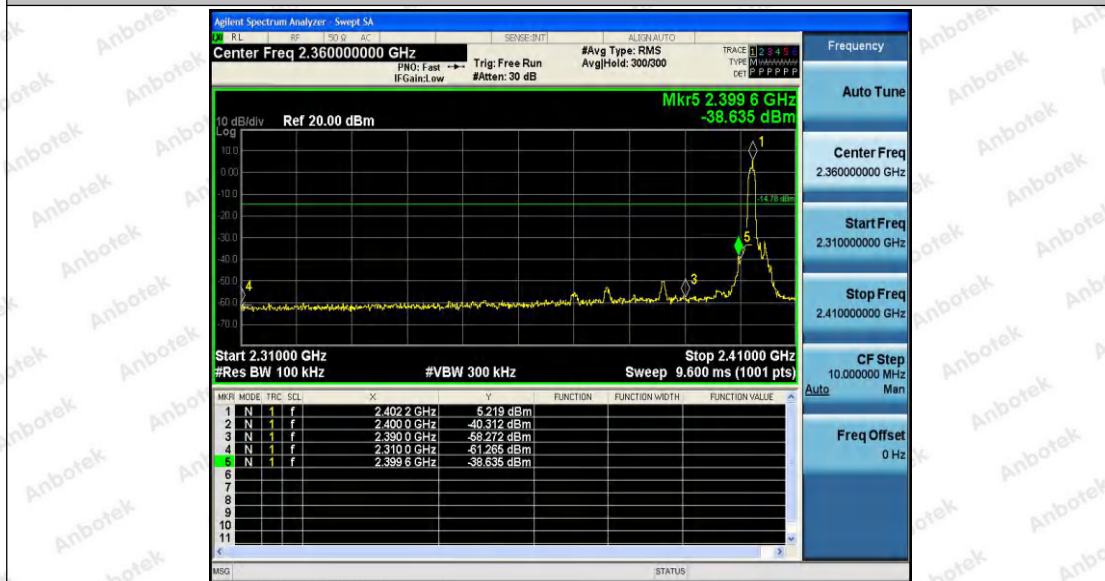




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

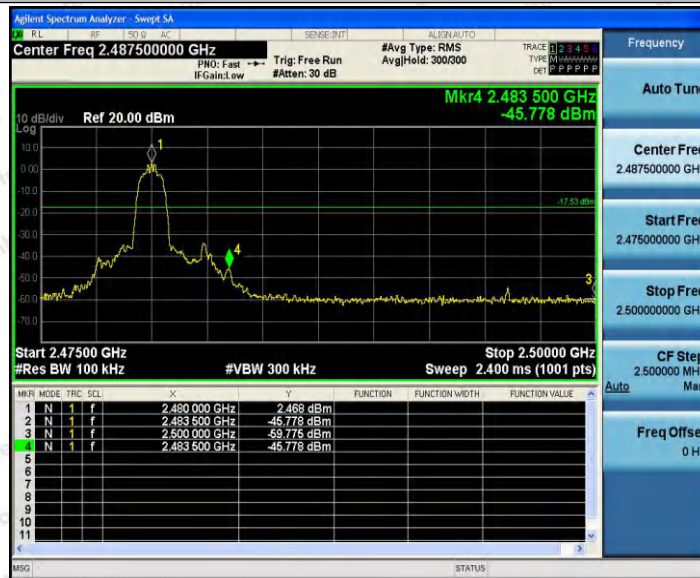


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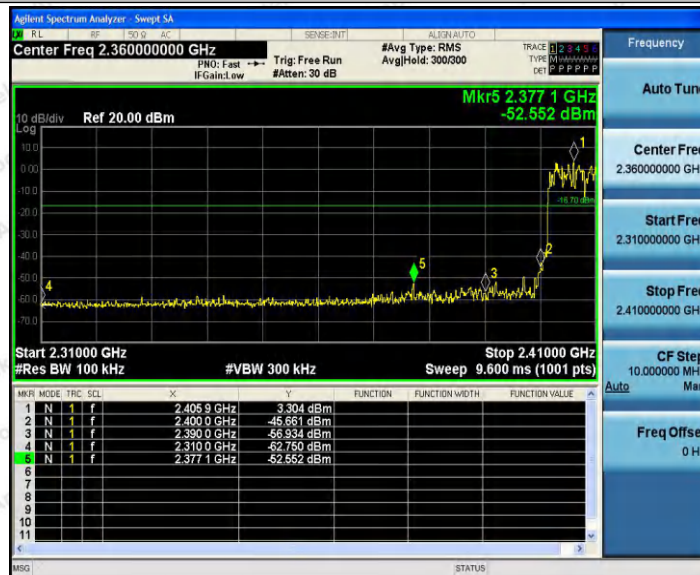
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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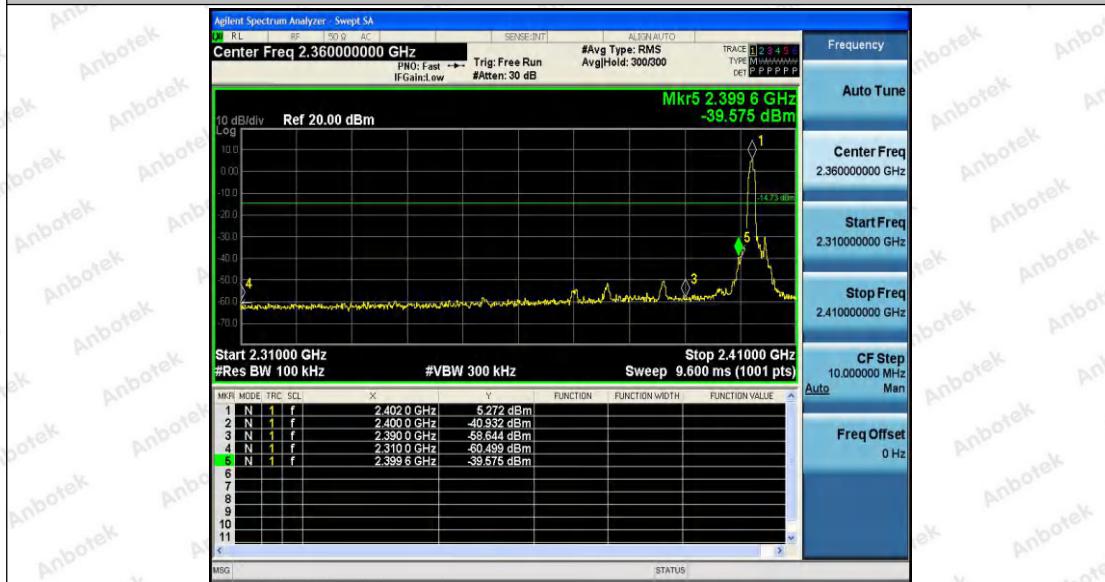
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



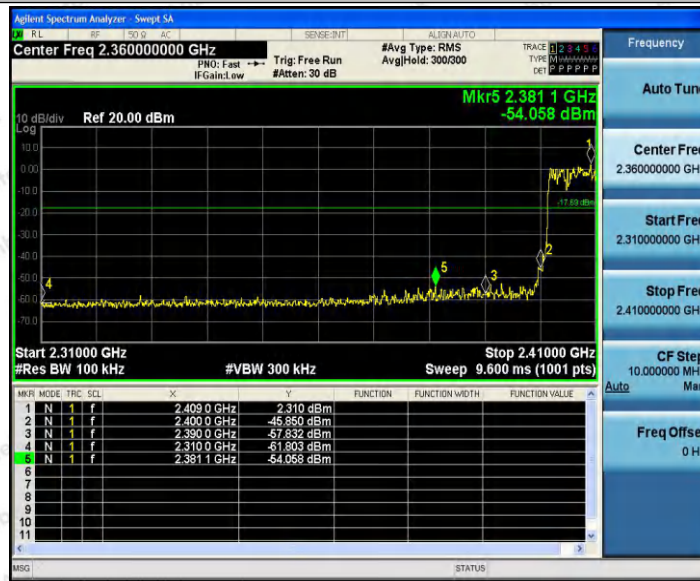
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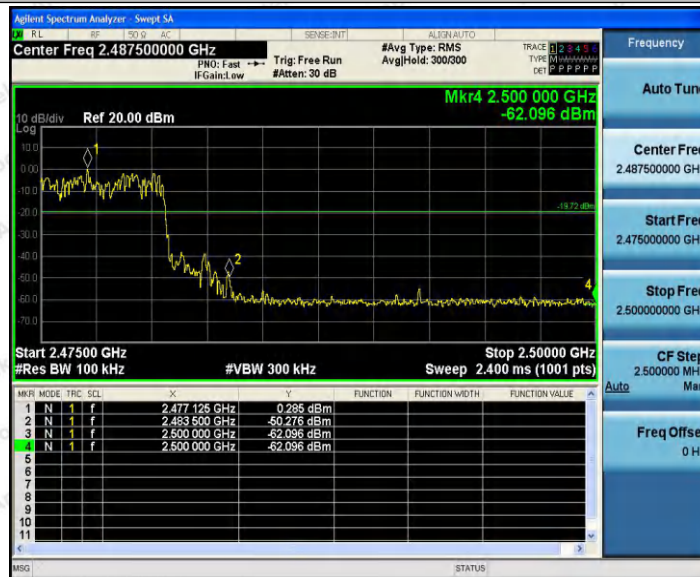
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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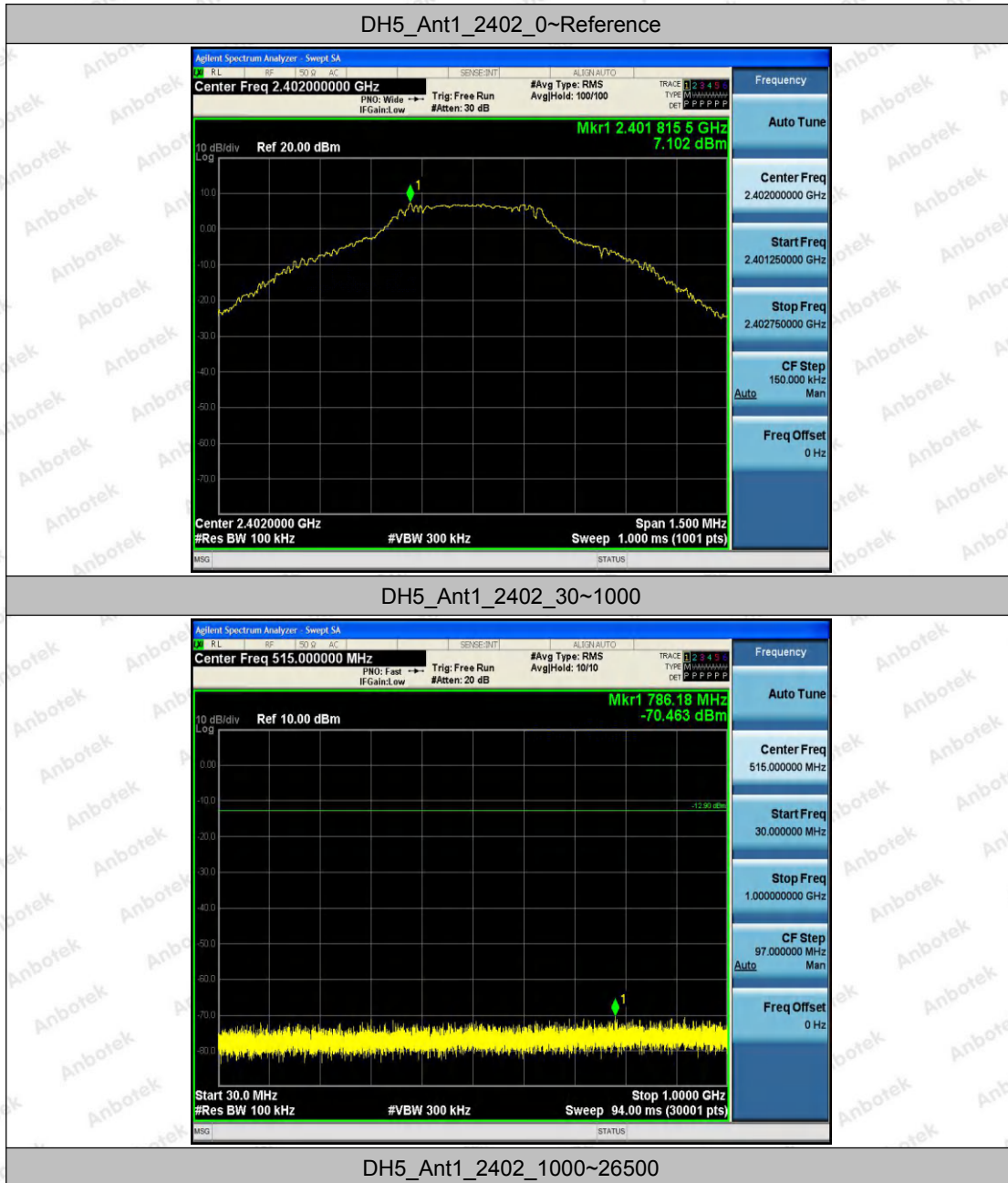
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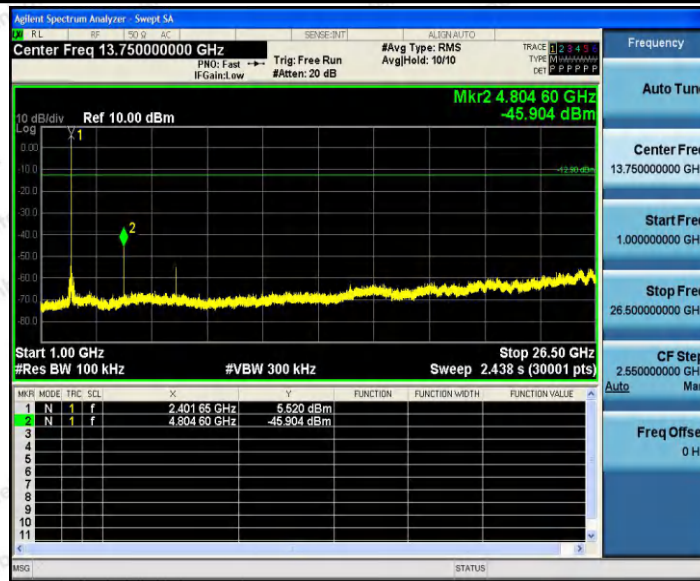
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.10	7.10	---	PASS
			30~1000	7.10	-70.46	≤-12.9	PASS
			1000~26500	7.10	-45.9	≤-12.9	PASS
		2441	Reference	7.42	7.42	---	PASS
			30~1000	7.42	-70.75	≤-12.58	PASS
			1000~26500	7.42	-48.19	≤-12.58	PASS
		2480	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-69.8	≤-13.6	PASS
			1000~26500	6.40	-47.23	≤-13.6	PASS
2DH5	Ant1	2402	Reference	4.90	4.90	---	PASS
			30~1000	4.90	-70.17	≤-15.1	PASS
			1000~26500	4.90	-55.67	≤-15.1	PASS
		2441	Reference	4.90	4.90	---	PASS
			30~1000	4.90	-70.22	≤-15.1	PASS
			1000~26500	4.90	-54.48	≤-15.1	PASS
		2480	Reference	2.55	2.55	---	PASS
			30~1000	2.55	-70.66	≤-17.45	PASS
			1000~26500	2.55	-55.32	≤-17.45	PASS
3DH5	Ant1	2402	Reference	5.42	5.42	---	PASS
			30~1000	5.42	-70.47	≤-14.58	PASS
			1000~26500	5.42	-55.26	≤-14.58	PASS
		2441	Reference	4.89	4.89	---	PASS
			30~1000	4.89	-70.81	≤-15.11	PASS
			1000~26500	4.89	-55.46	≤-15.11	PASS
		2480	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-70.16	≤-17.88	PASS
			1000~26500	2.12	-54.68	≤-17.88	PASS

Test Graphs

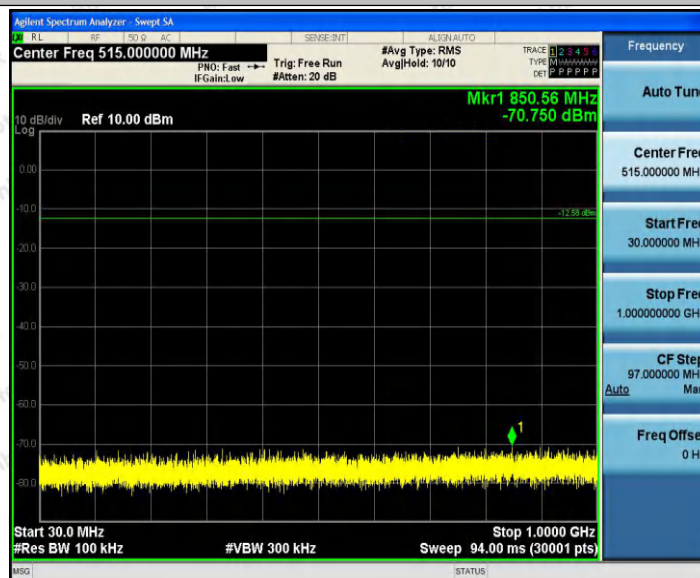




DH5_Ant1_2441_0~Reference



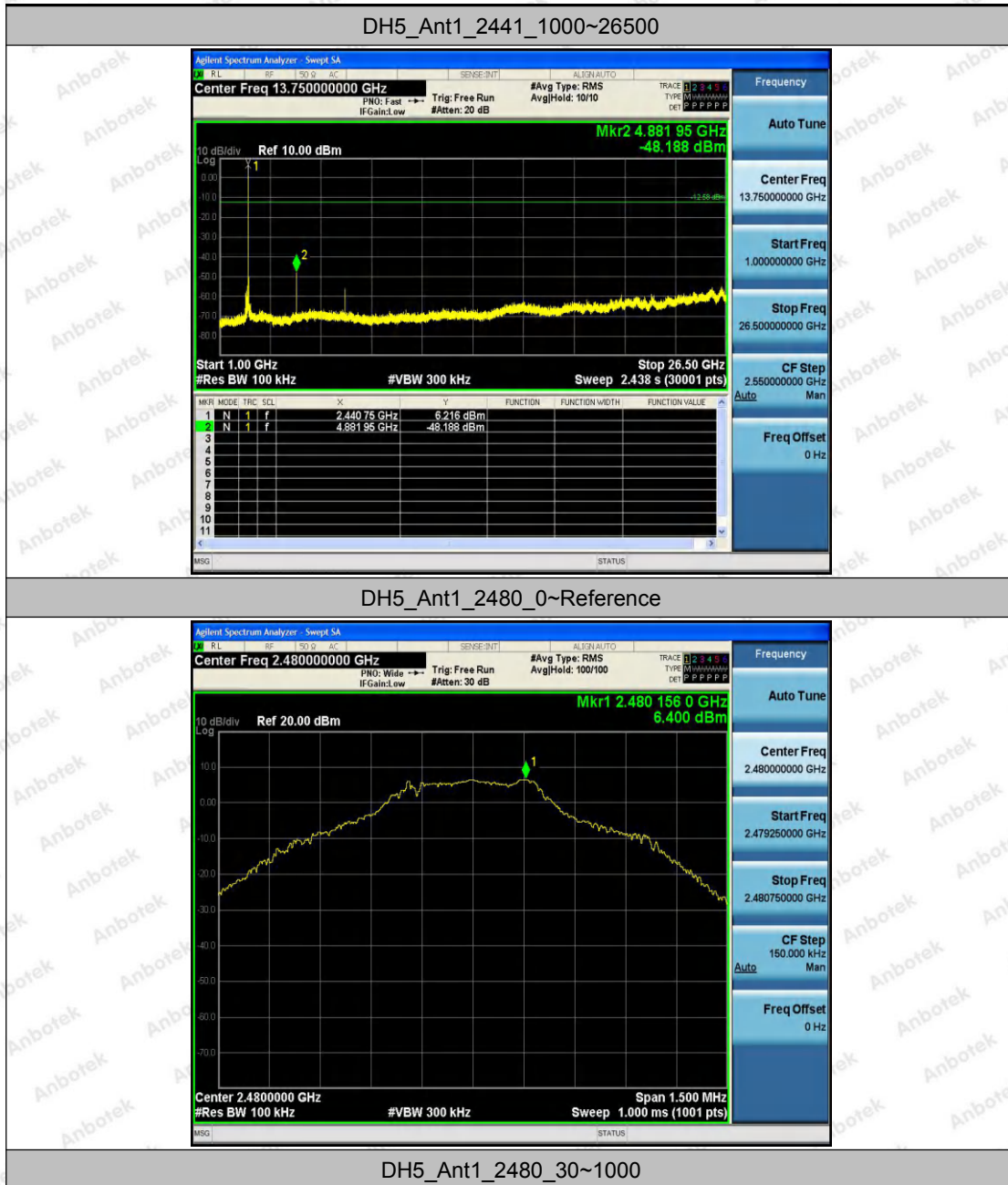
DH5_Ant1_2441_30~1000



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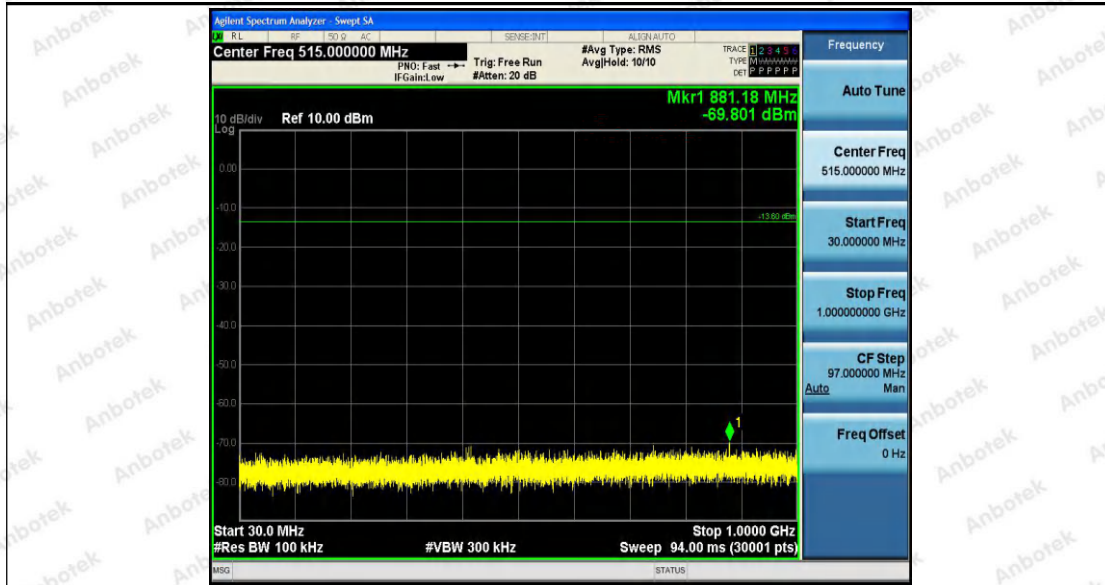


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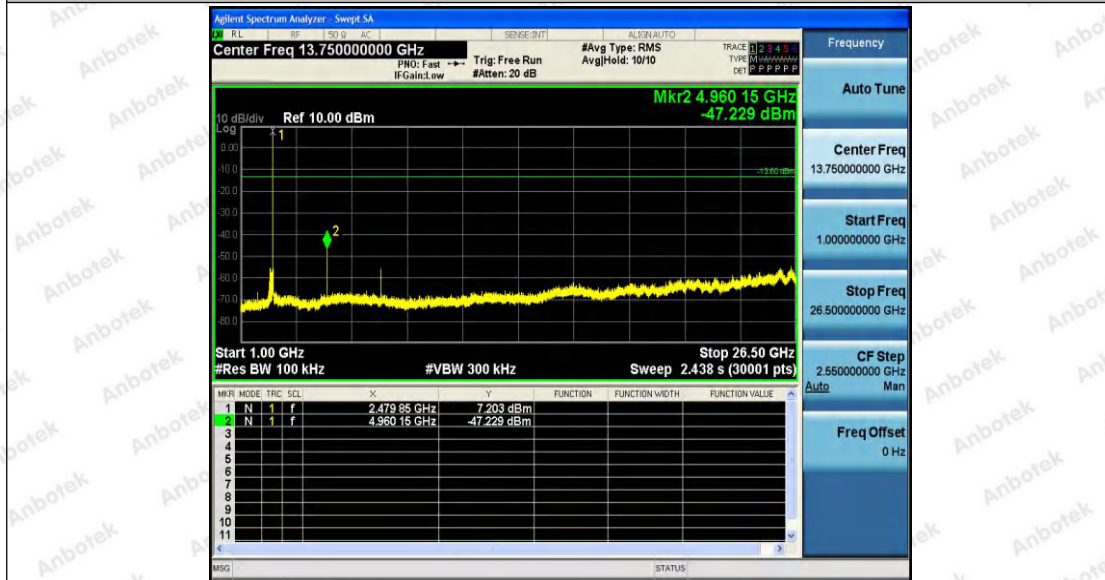
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

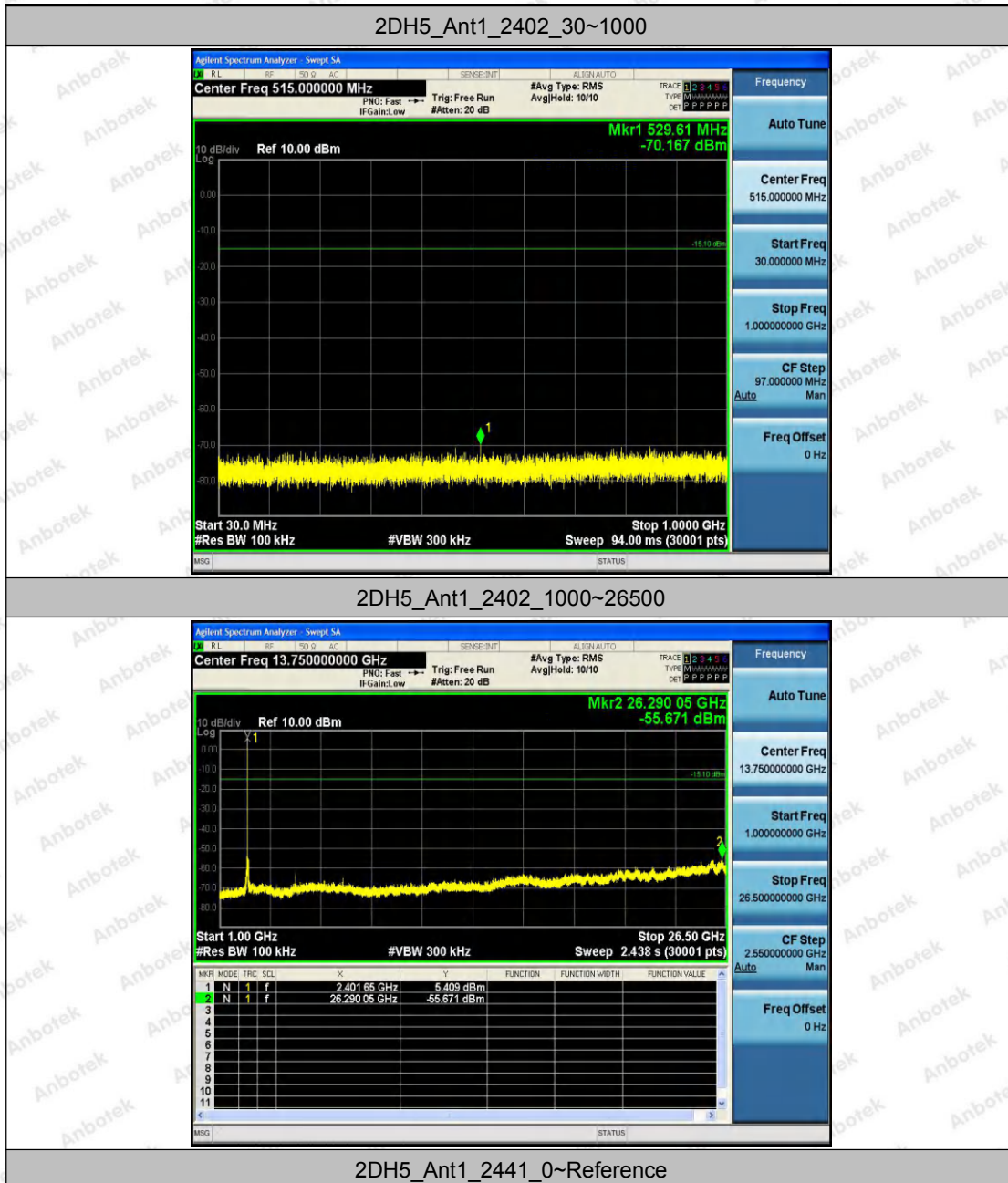


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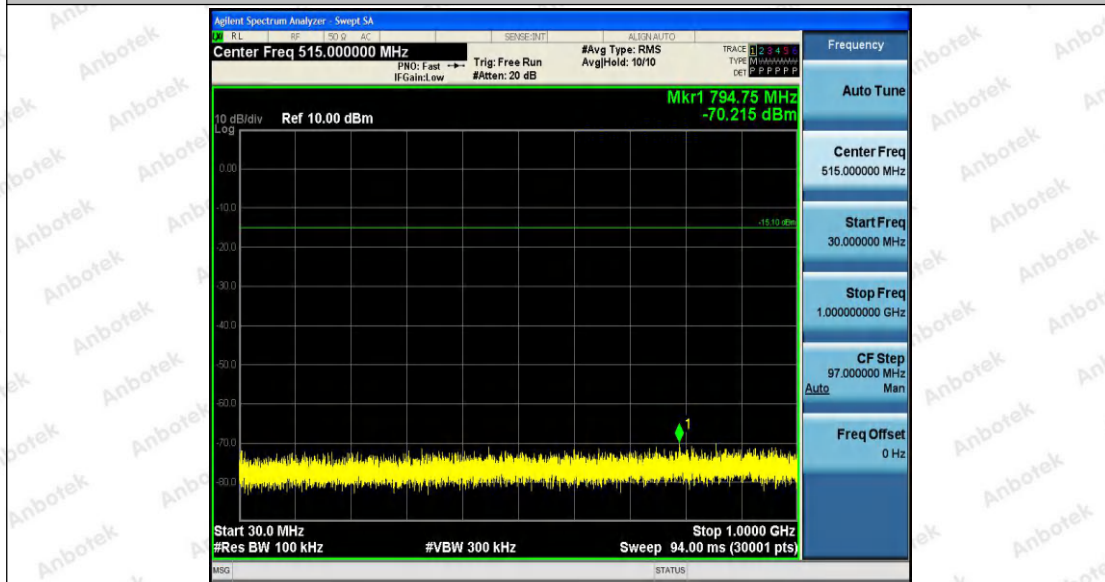
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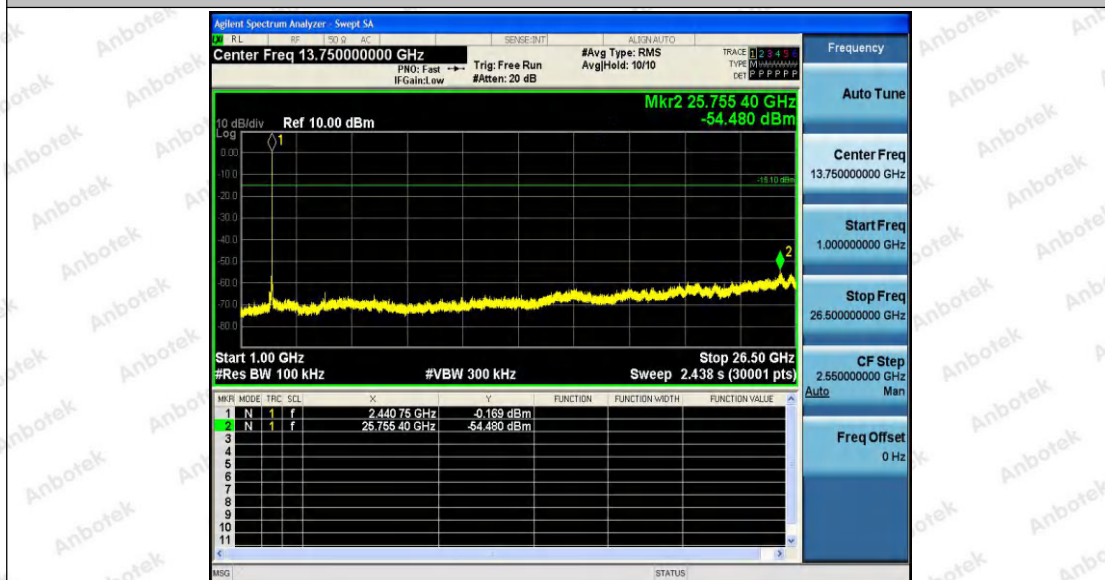
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

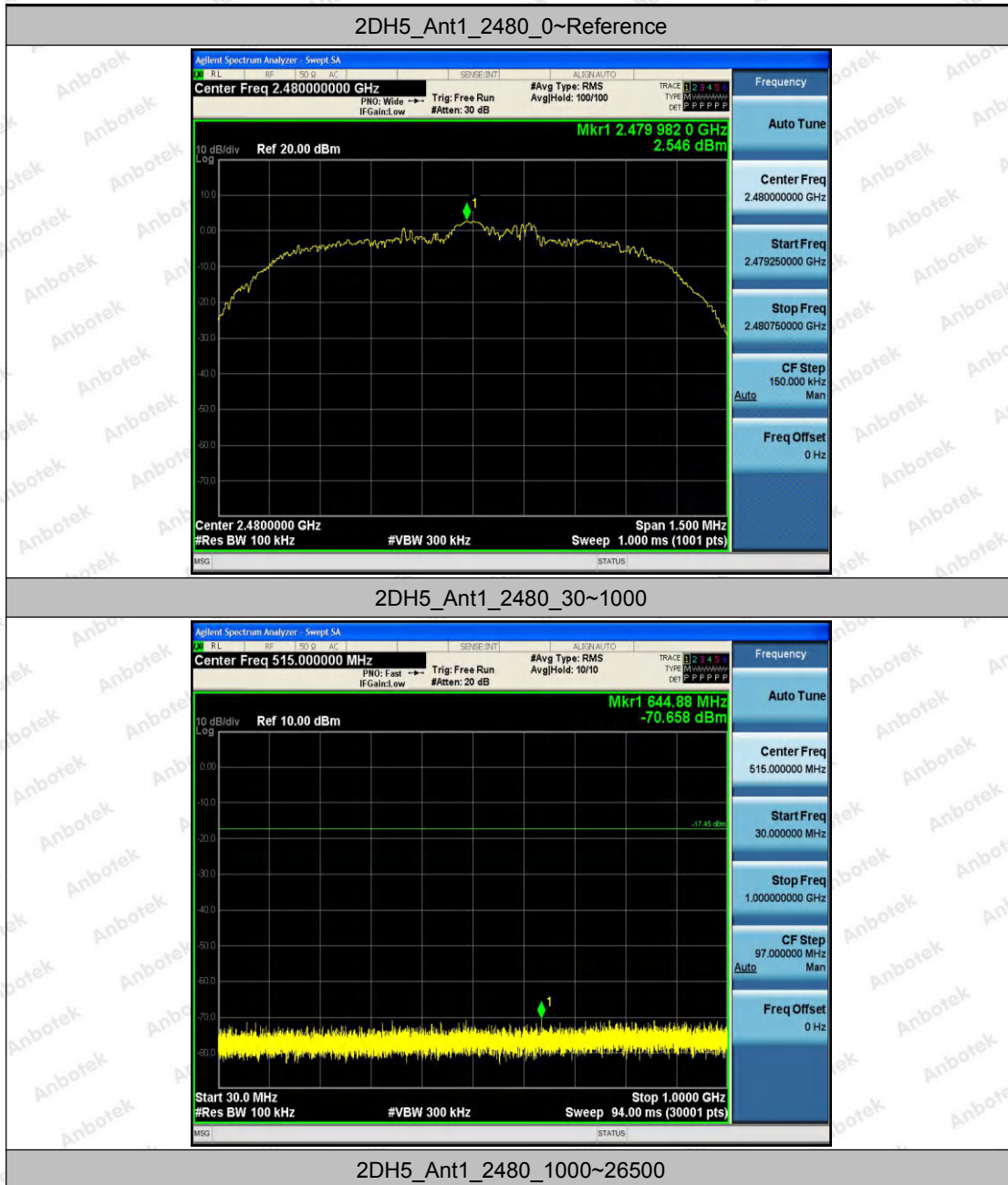


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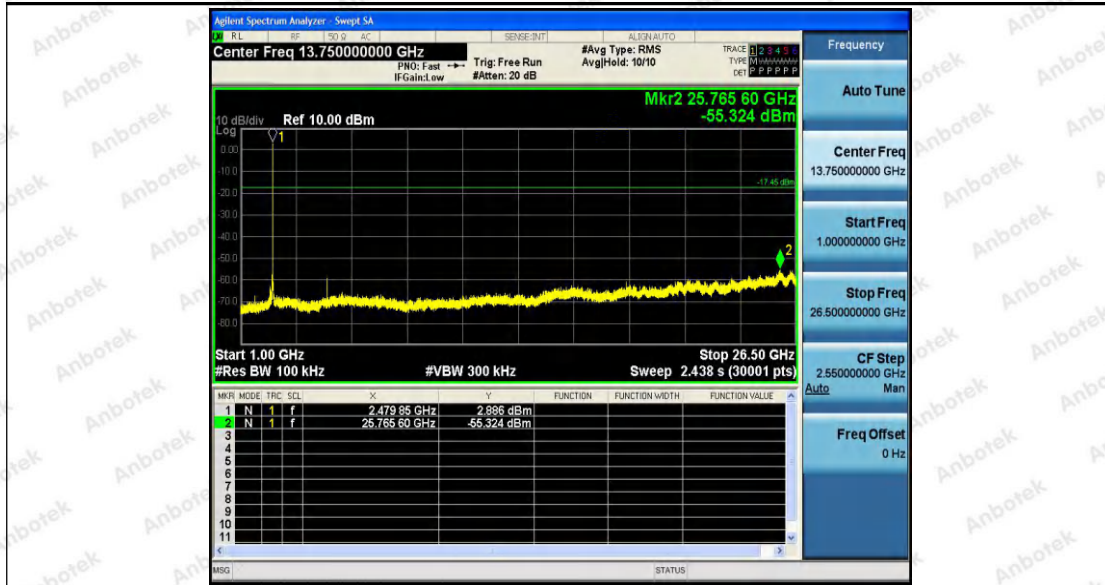


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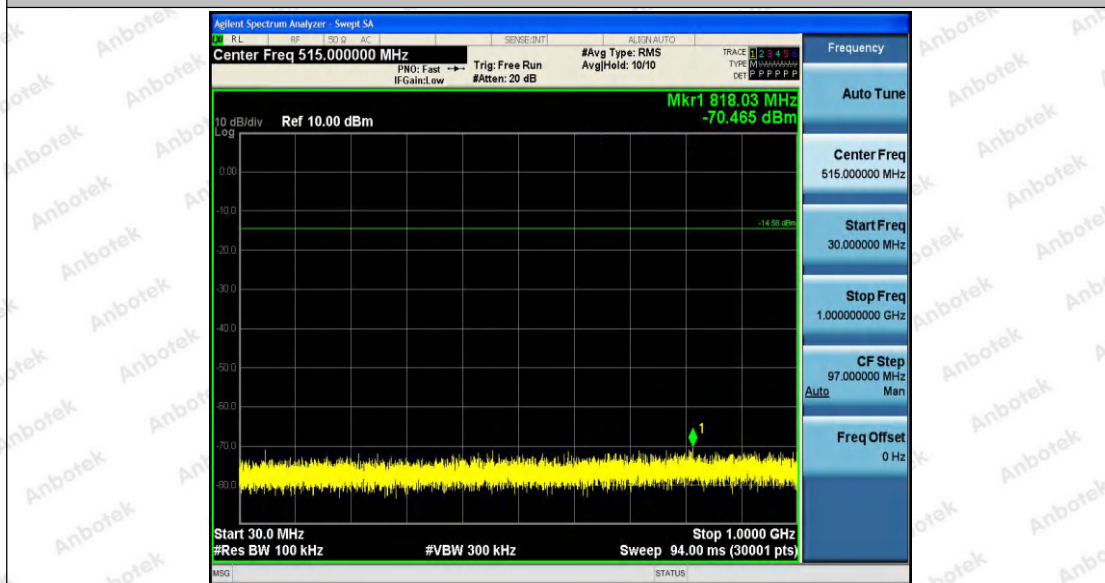
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

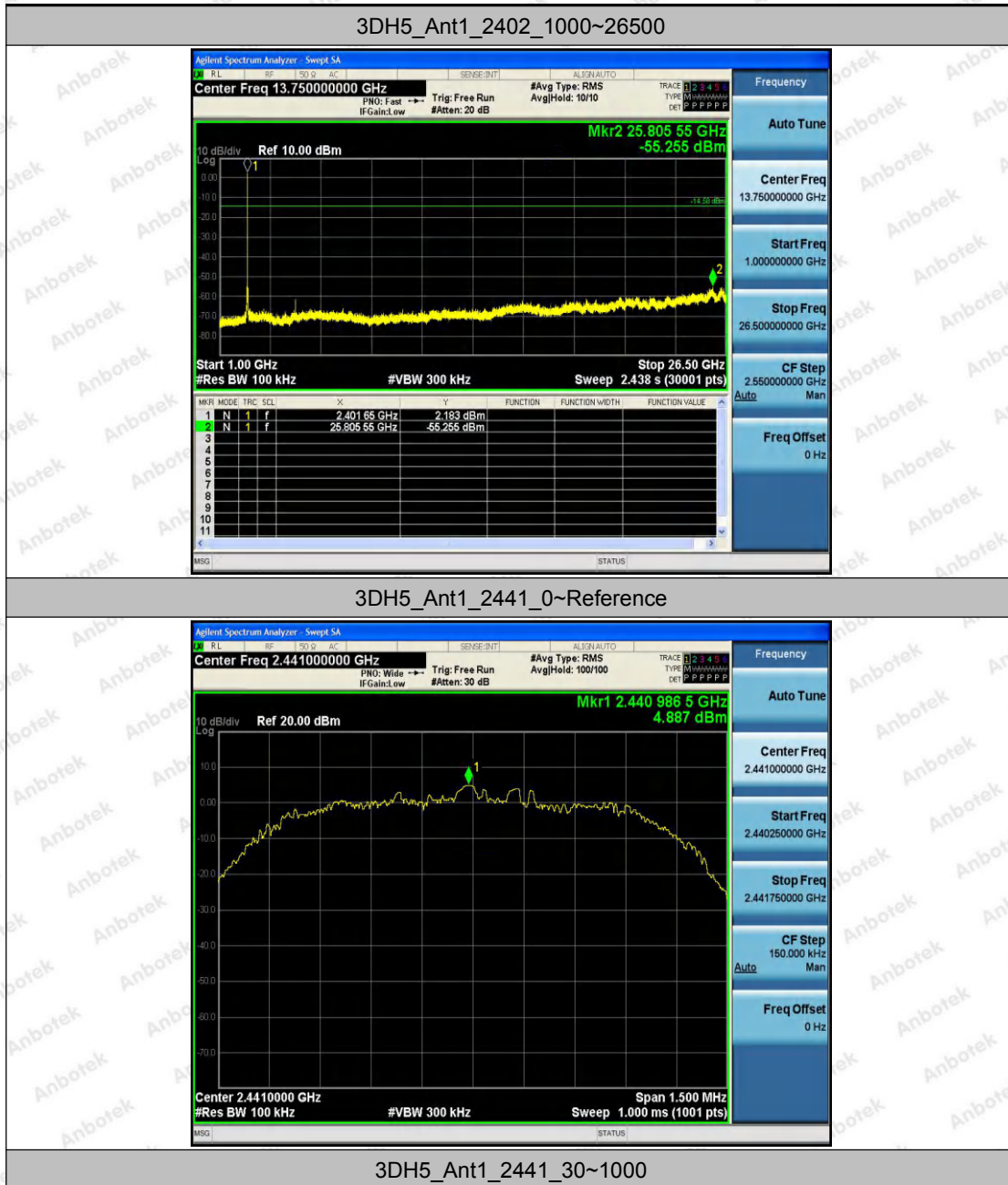


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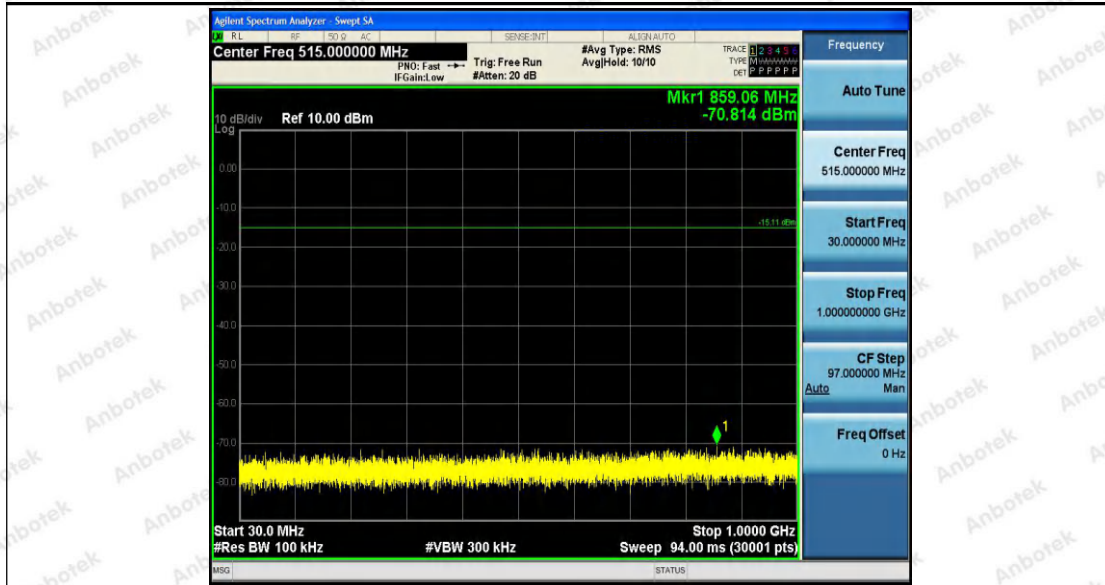
Hotline
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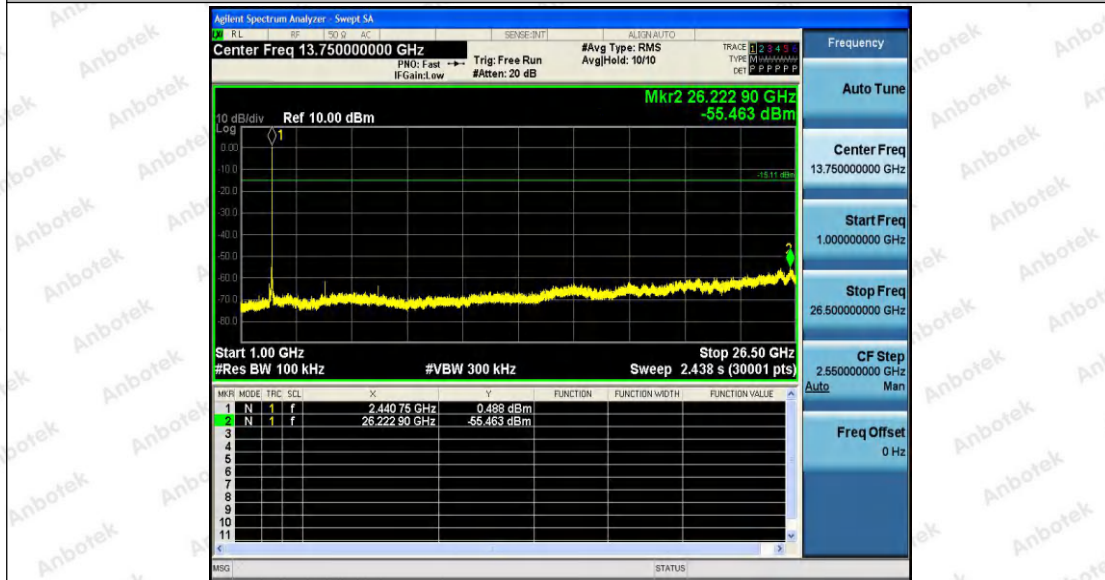
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

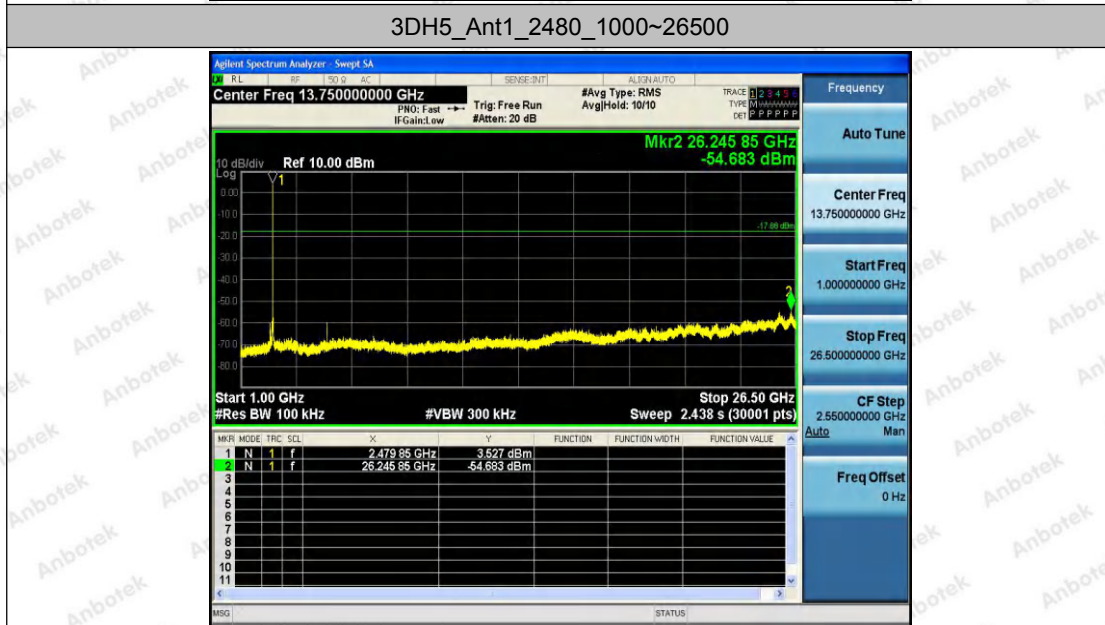
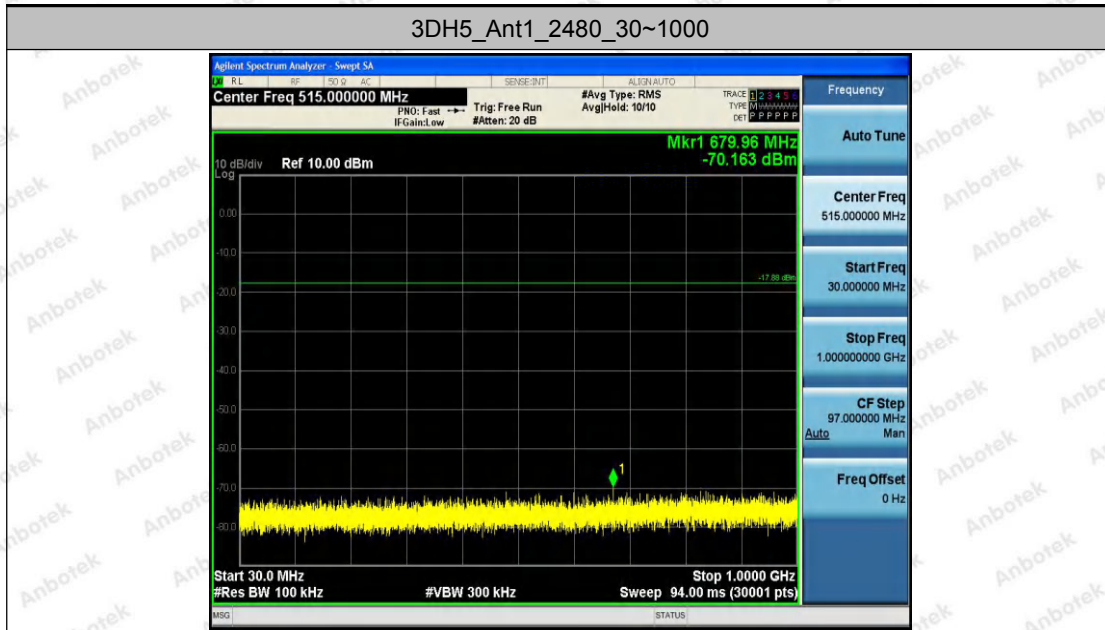


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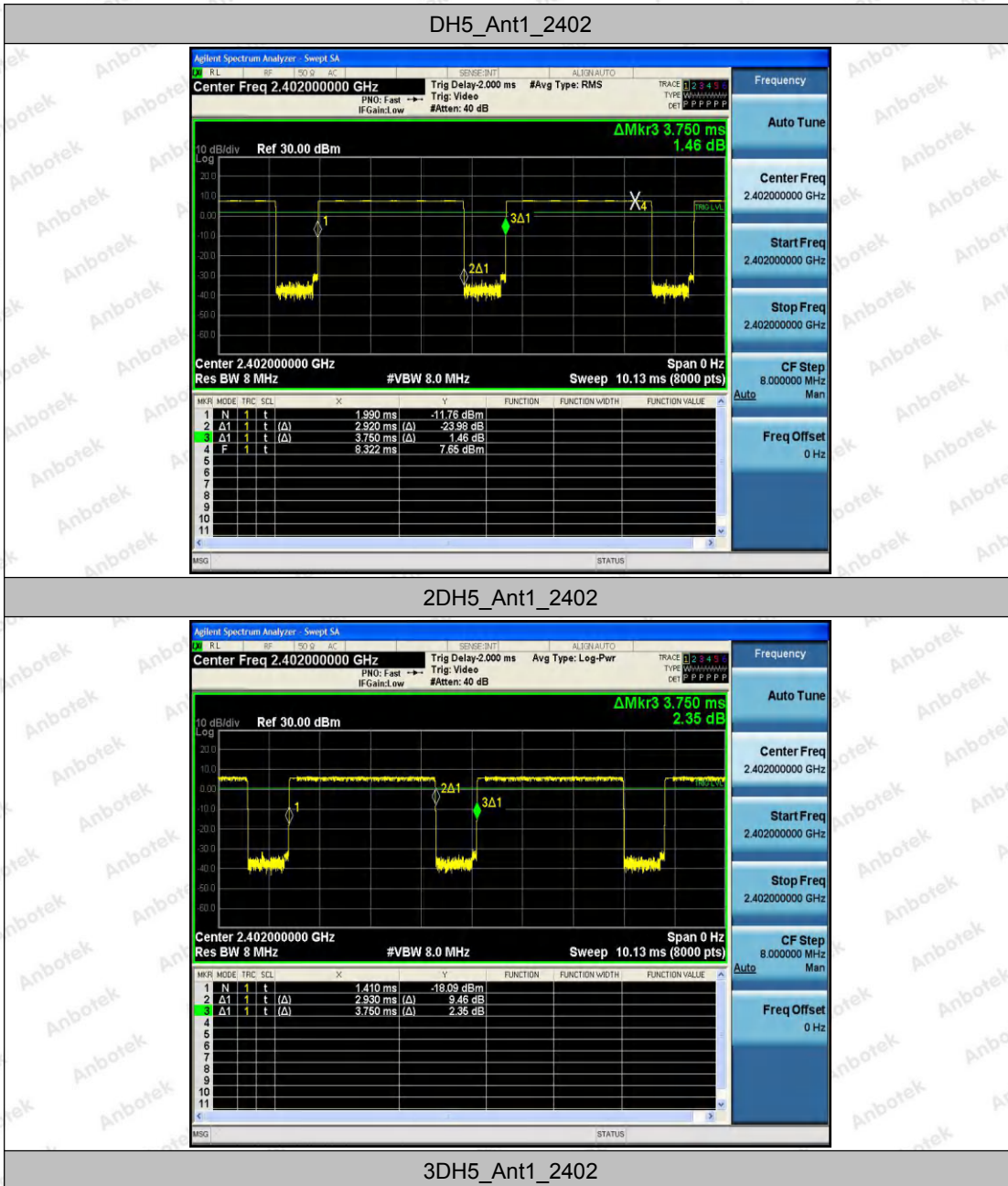
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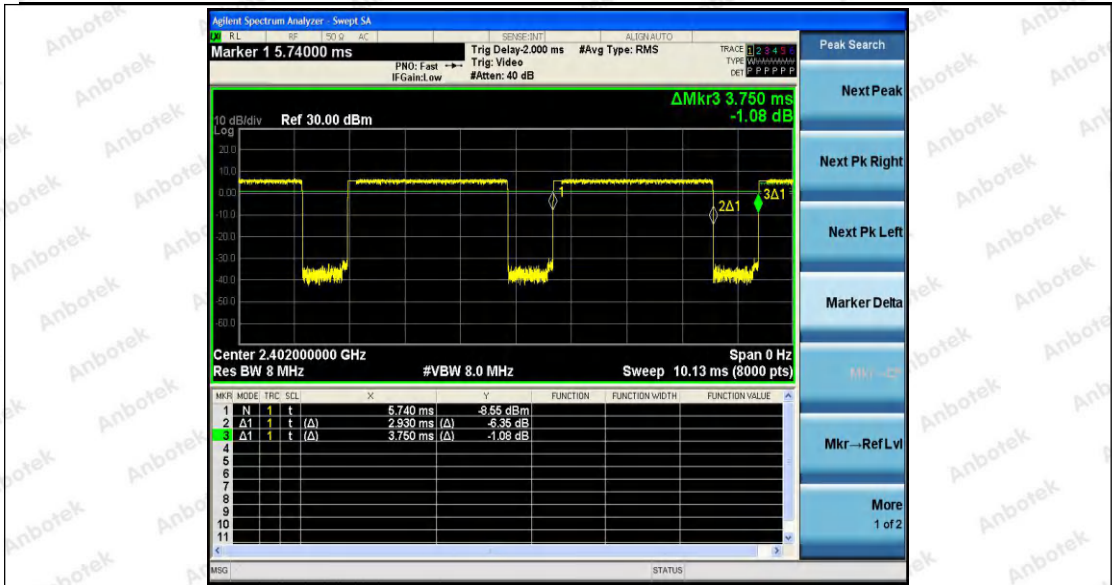
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	0.778 7	77.87	1.09	---	PASS
2DH5	Ant1	2402	2.93	3.75	0.781 3	78.13	1.07	---	PASS
3DH5	Ant1	2402	2.93	3.75	0.781 3	78.13	1.07	---	PASS

Test Graphs





---End---