

Appendix Test Data

Project No.:	18220WC10193101	Test Date:	2021.9.2
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	56 %
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	1.092	2401.484	2402.576	---	PASS
		2441	1.107	2440.475	2441.582	---	PASS
		2480	1.116	2479.466	2480.582	---	PASS
2DH5	Ant1	2402	1.359	2401.352	2402.711	---	PASS
		2441	1.371	2440.343	2441.714	---	PASS
		2480	1.350	2479.361	2480.711	---	PASS
3DH5	Ant1	2402	1.386	2401.340	2402.726	---	PASS
		2441	1.365	2440.352	2441.717	---	PASS
		2480	1.368	2479.346	2480.714	---	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



3DH5_Ant1_2480



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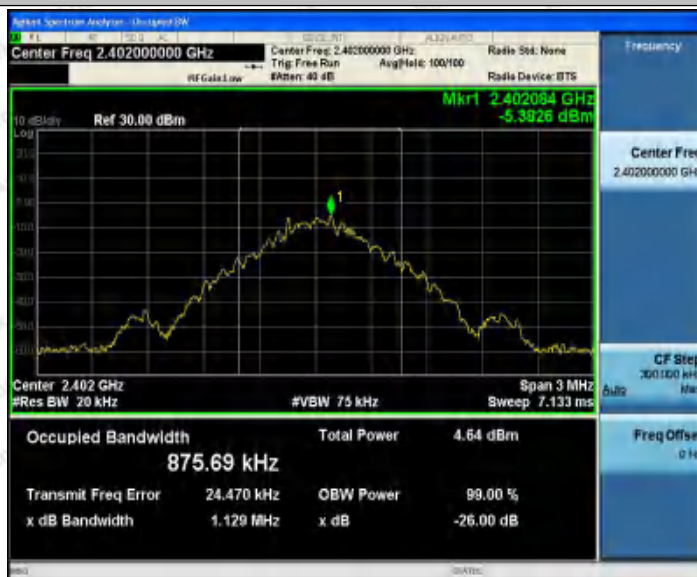
Appendix B: Occupied Channel Bandwidth

Test Result

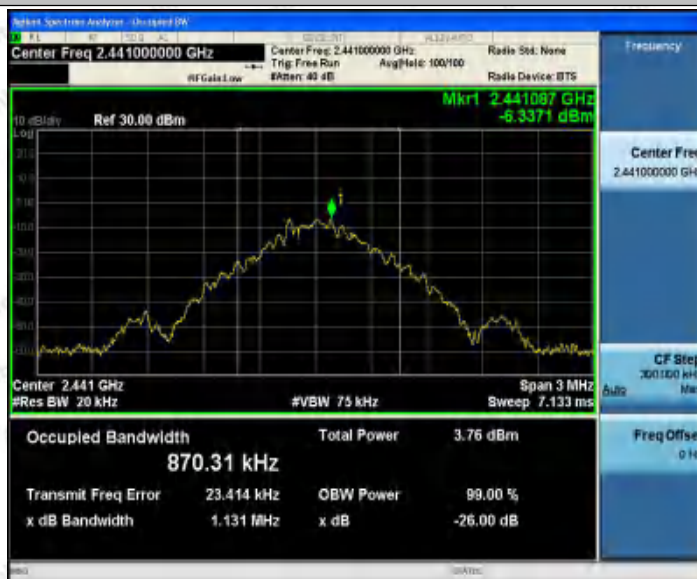
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87569	2401.58 7	2402.462	---	PASS
		2441	0.87031	2440.58 8	2441.459	---	PASS
		2480	0.87792	2479.58 6	2480.464	---	PASS
2DH5	Ant1	2402	1.1771	2401.43 8	2402.615	---	PASS
		2441	1.1782	2440.43 7	2441.616	---	PASS
		2480	1.1778	2479.43 8	2480.615	---	PASS
3DH5	Ant1	2402	1.1913	2401.42 4	2402.615	---	PASS
		2441	1.1845	2440.42 9	2441.613	---	PASS
		2480	1.1977	2479.42 0	2480.618	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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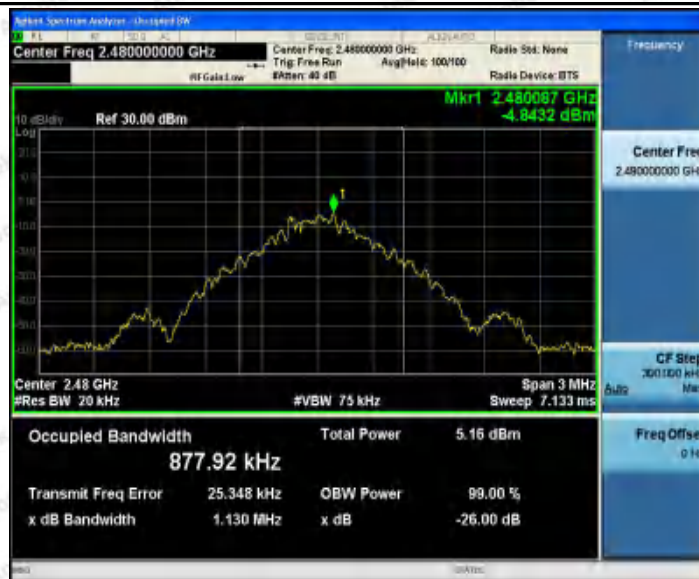
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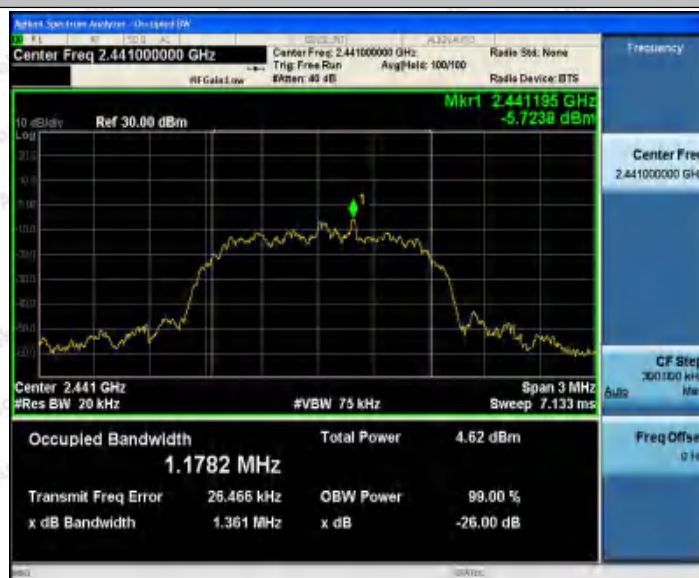
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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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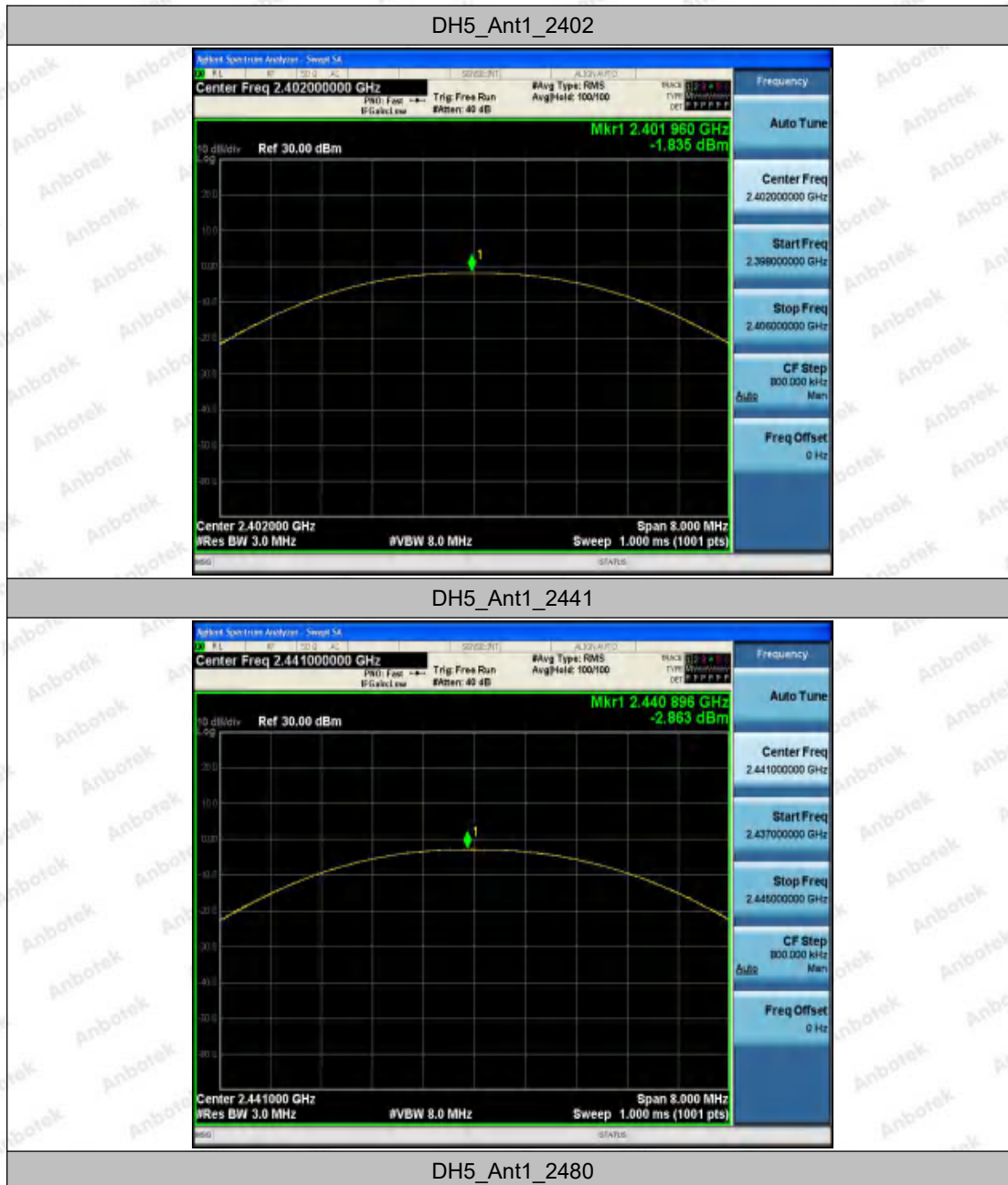
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.84	≤20.97	PASS
		2441	-2.86	≤20.97	PASS
		2480	-1.37	≤20.97	PASS
2DH5	Ant1	2402	0.86	≤20.97	PASS
		2441	-0.26	≤20.97	PASS
		2480	1.25	≤20.97	PASS
3DH5	Ant1	2402	1.38	≤20.97	PASS
		2441	0.27	≤20.97	PASS
		2480	1.71	≤20.97	PASS

Test Graphs

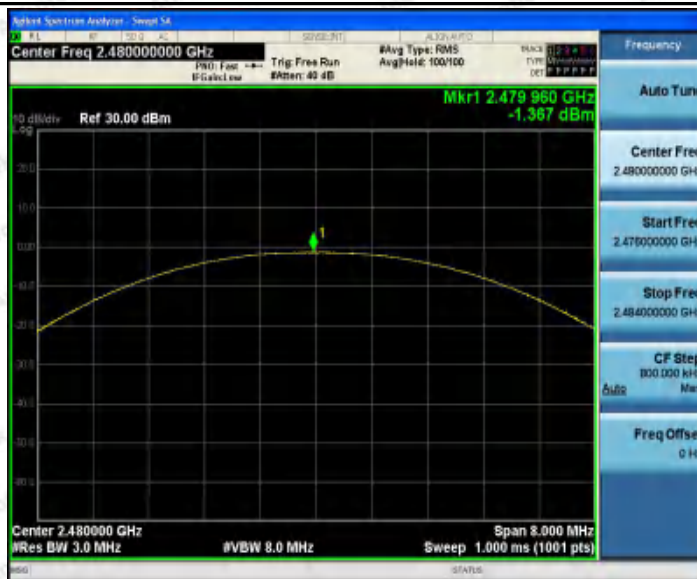


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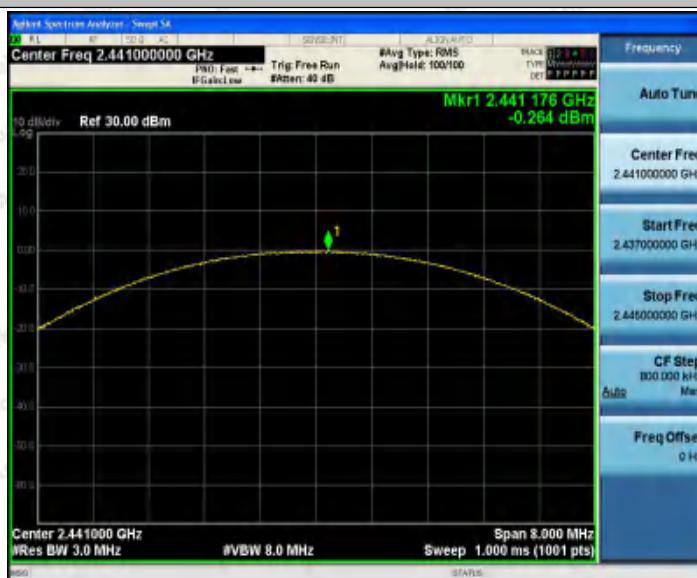
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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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	1.038	≥ 0.744	PASS
2DH5	Ant1	Hop	1	≥ 0.914	PASS
3DH5	Ant1	Hop	1.16	≥ 0.924	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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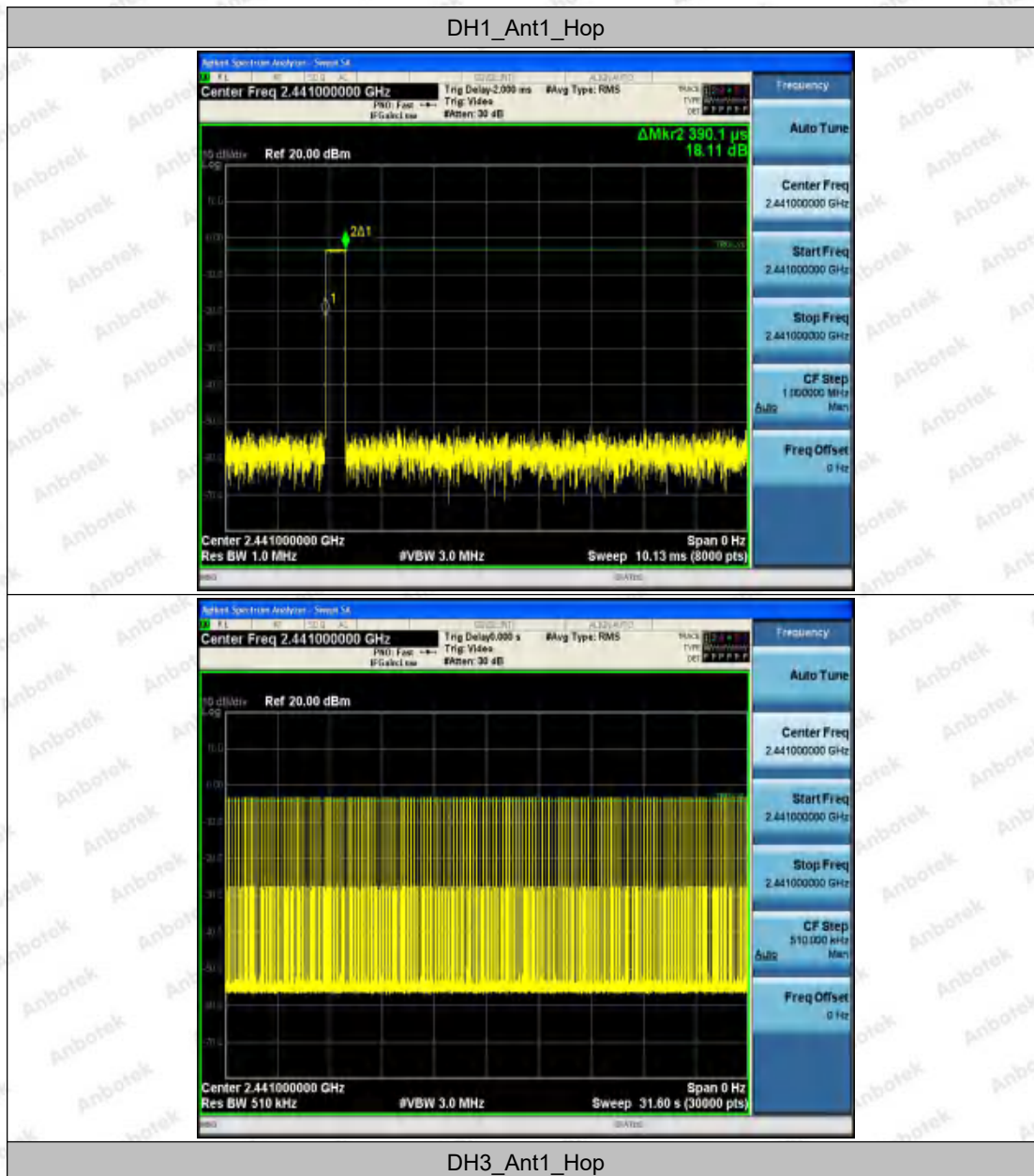
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	320	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.64	147	0.242	≤0.4	PASS
DH5	Ant1	Hop	2.89	104	0.301	≤0.4	PASS
2DH1	Ant1	Hop	0.40	317	0.126	≤0.4	PASS
2DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
3DH1	Ant1	Hop	0.40	315	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.65	151	0.249	≤0.4	PASS
3DH5	Ant1	Hop	2.90	125	0.362	≤0.4	PASS

Test Graphs



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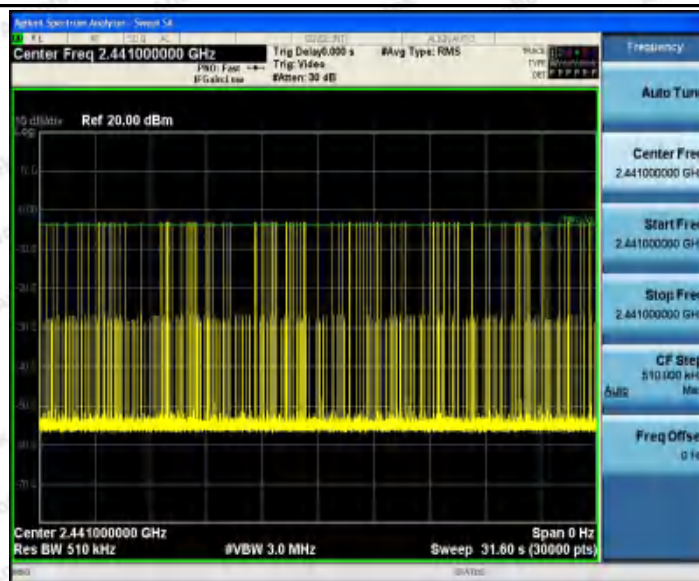
DH5_Ant1_Hop

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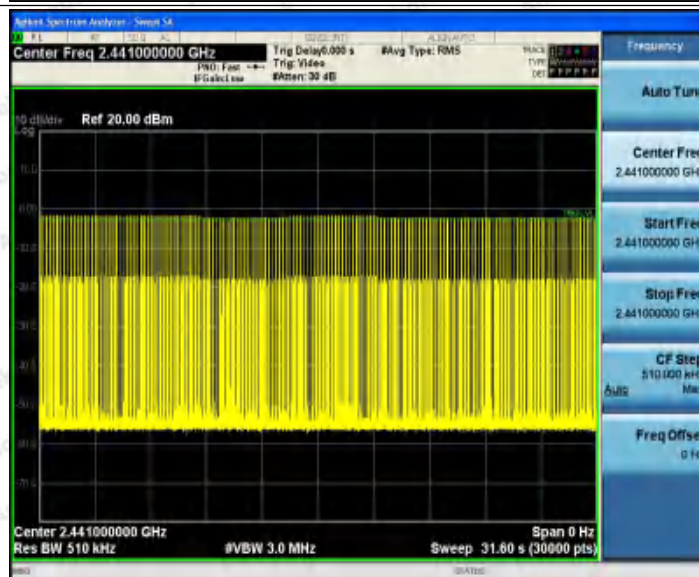
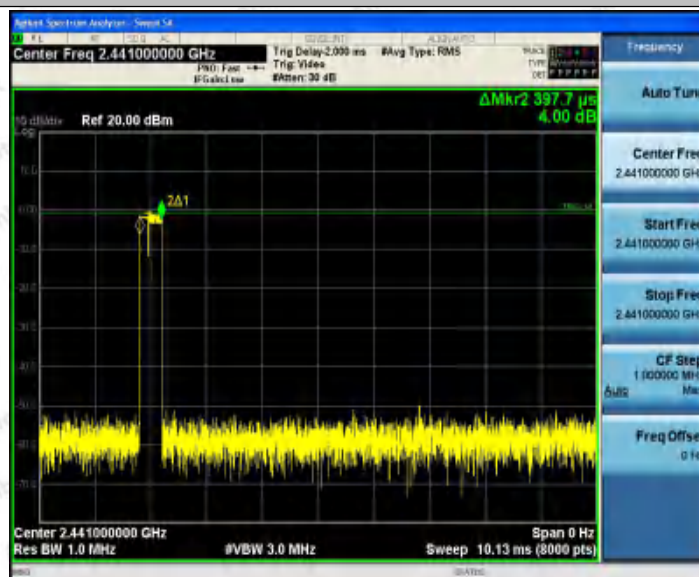
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2DH1_Ant1_Hop



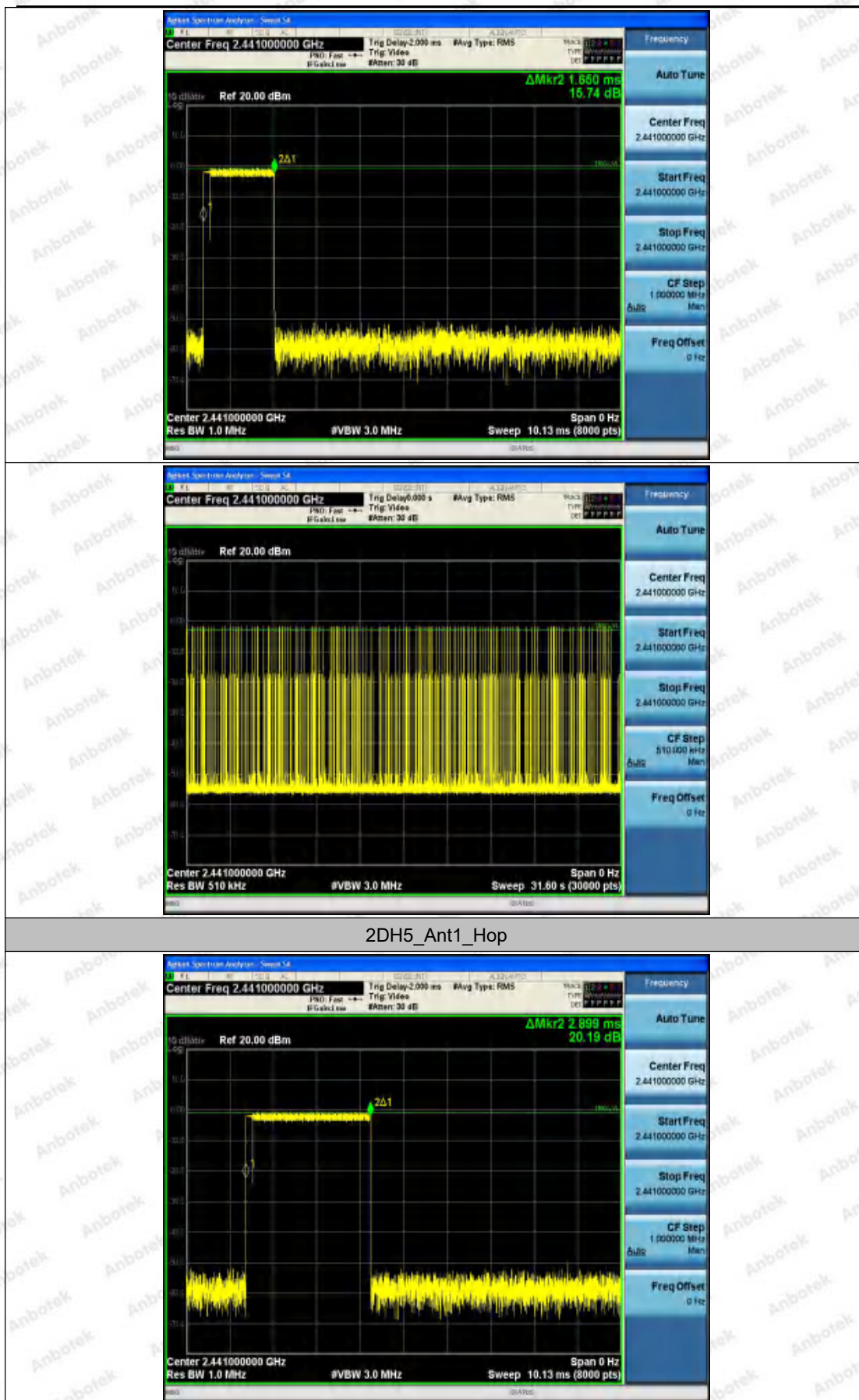
2DH3_Ant1_Hop

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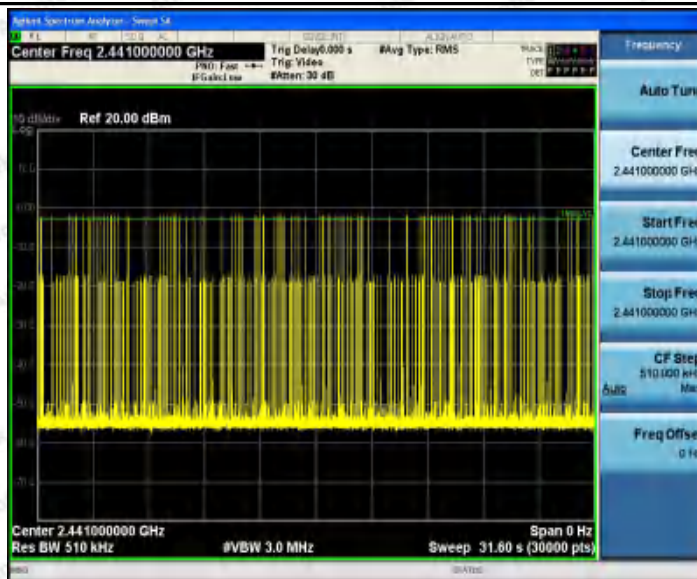


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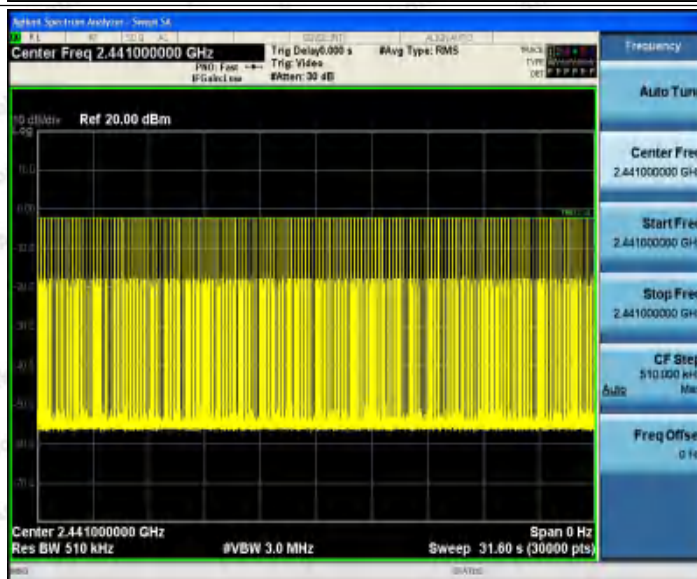
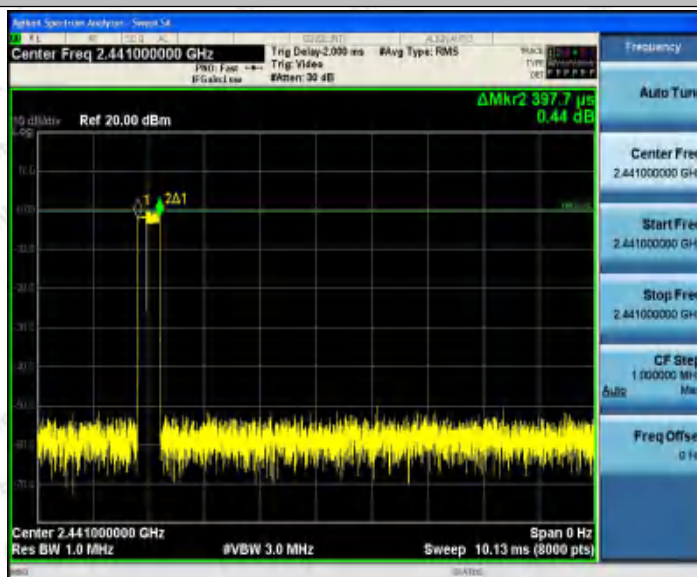
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3DH1_Ant1_Hop



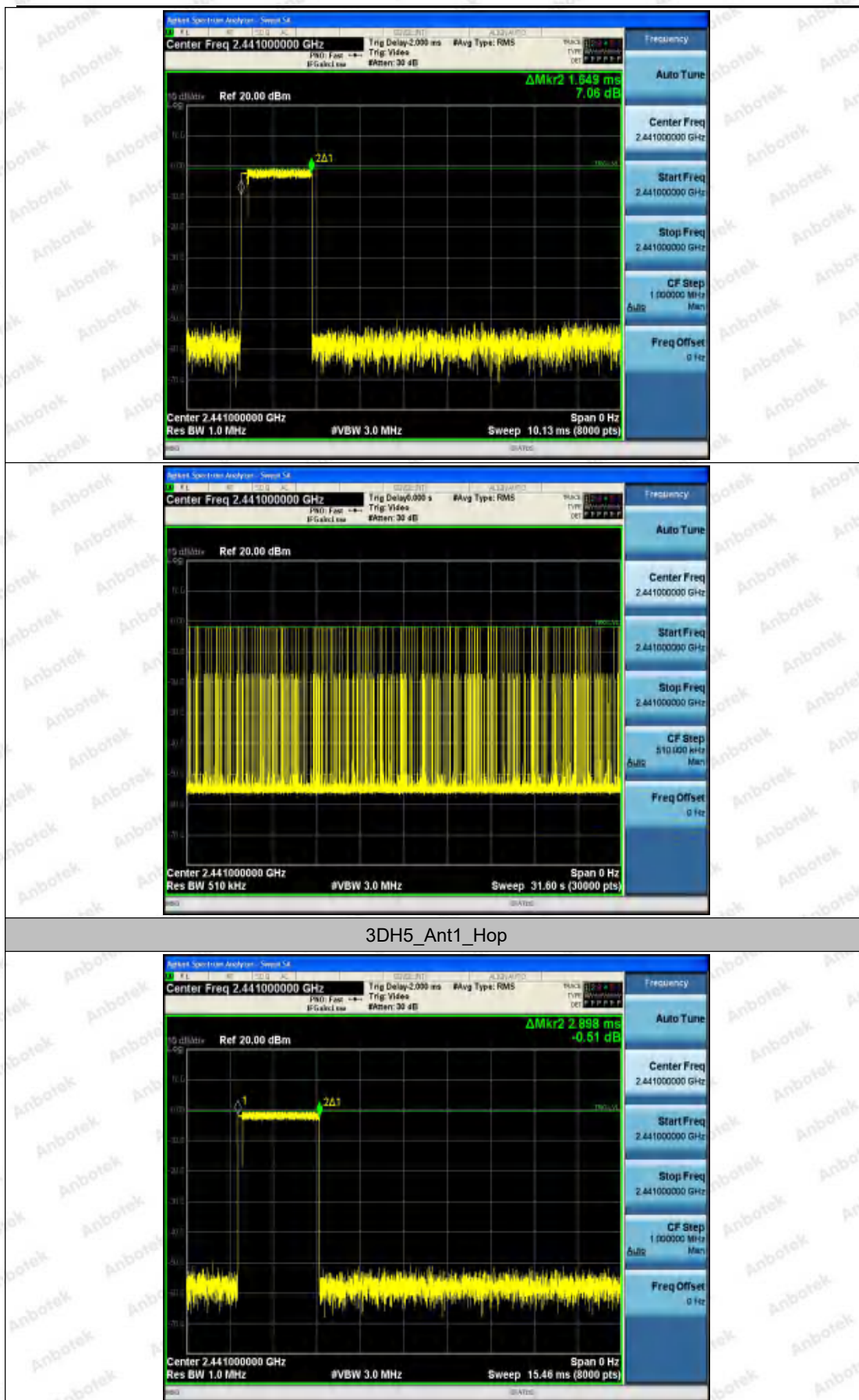
3DH3_Ant1_Hop

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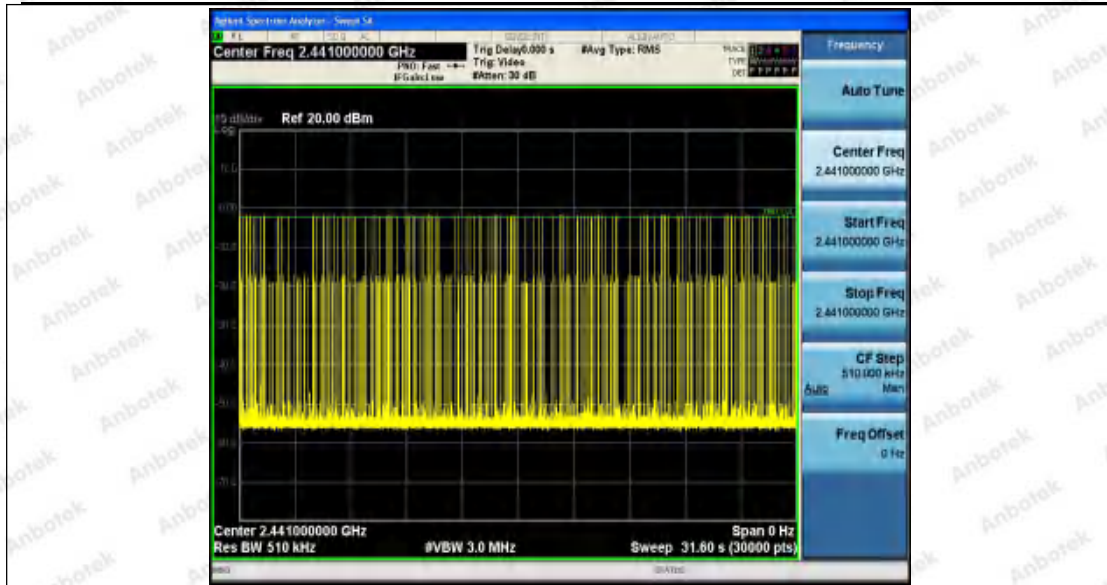
3DH5_Ant1_Hop

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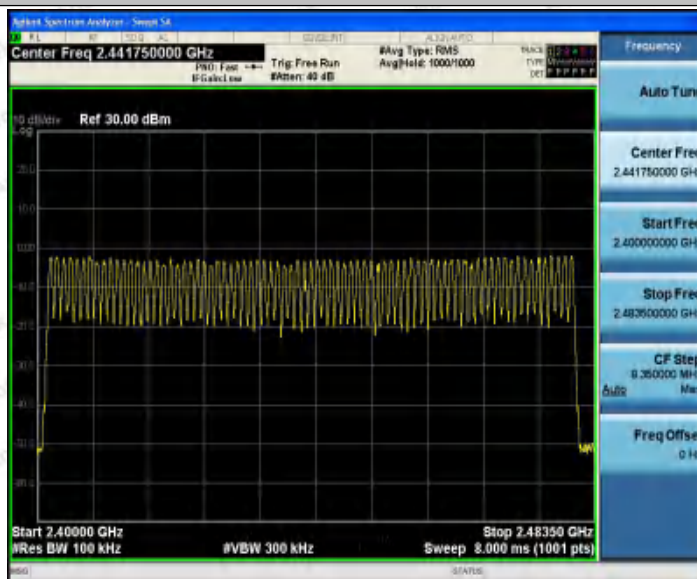
Appendix F: Number of hopping channels

Test Result

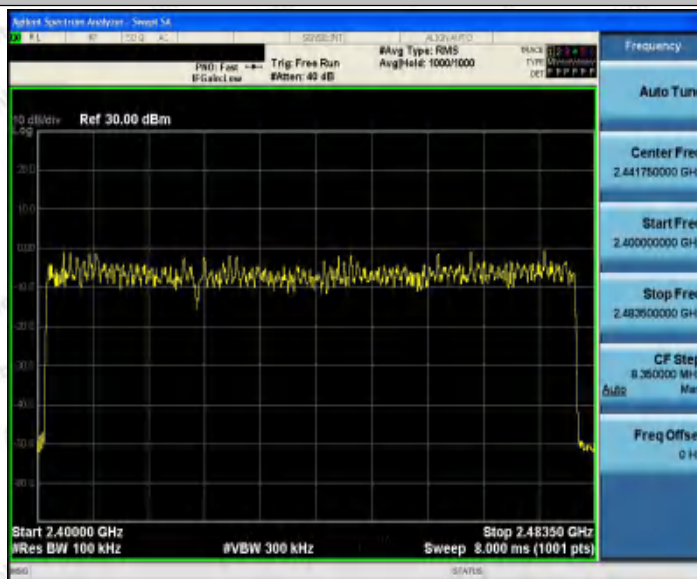
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

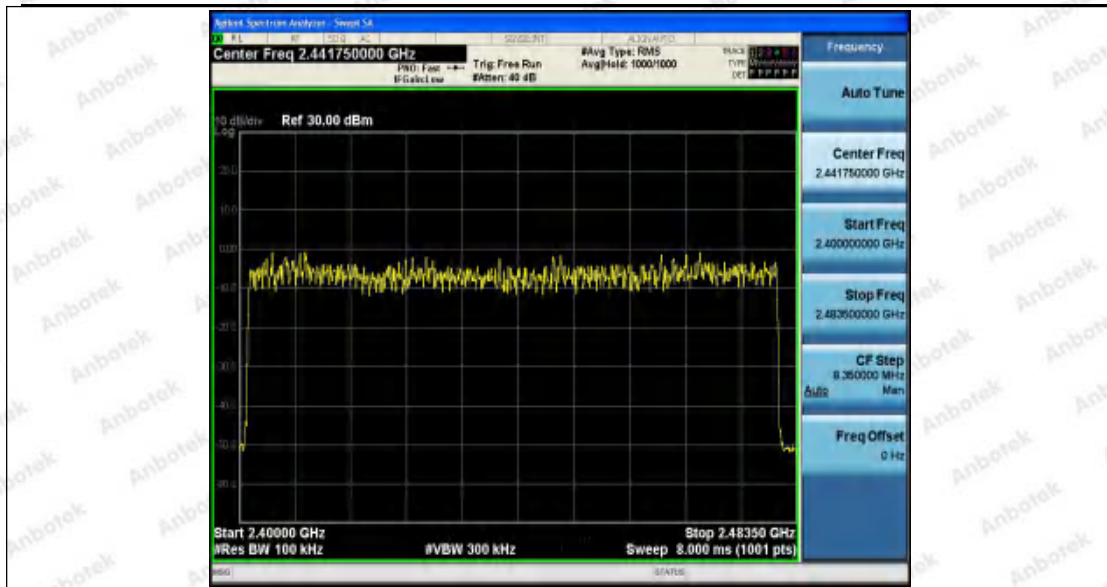
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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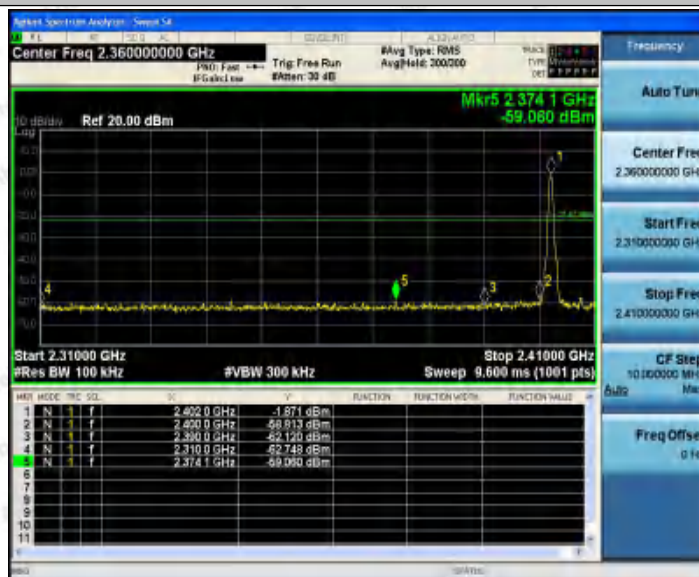
Appendix G: Band edge measurements

Test Result

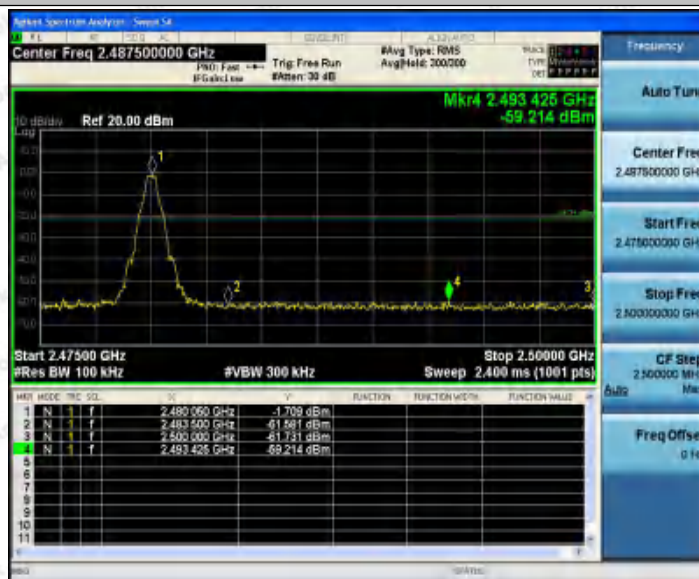
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.87	-59.06	≤-21.87	PASS
		High	2480	-1.71	-59.21	≤-21.71	PASS
		Low	Hop	-2.36	-58.35	≤-22.36	PASS
		High	Hop	-1.93	-63.41	≤-21.93	PASS
2DH5	Ant1	Low	2402	-0.83	-58.29	≤-20.83	PASS
		High	2480	-0.27	-58.71	≤-20.27	PASS
		Low	Hop	-1.26	-59.44	≤-21.26	PASS
		High	Hop	-1.93	-62.28	≤-21.93	PASS
3DH5	Ant1	Low	2402	-0.76	-58.31	≤-20.76	PASS
		High	2480	-0.20	-58.95	≤-20.2	PASS
		Low	Hop	-2.94	-59.45	≤-22.94	PASS
		High	Hop	-3.35	-62.26	≤-23.35	PASS

Test Graphs

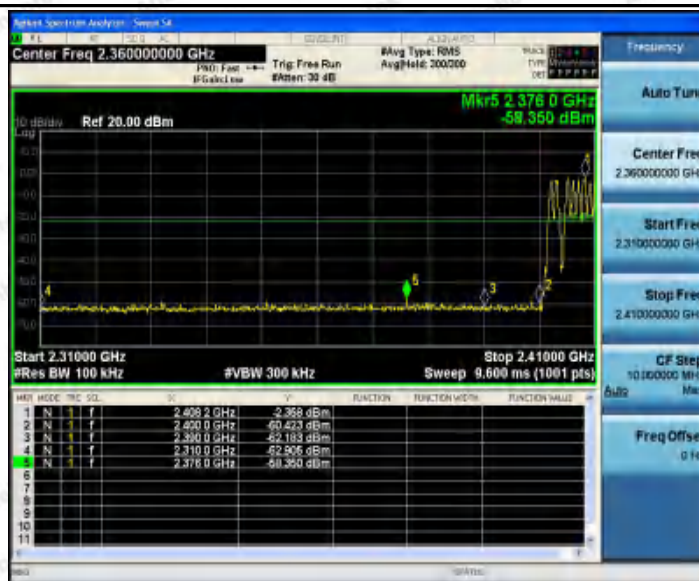
DH5_Ant1_Low_2402



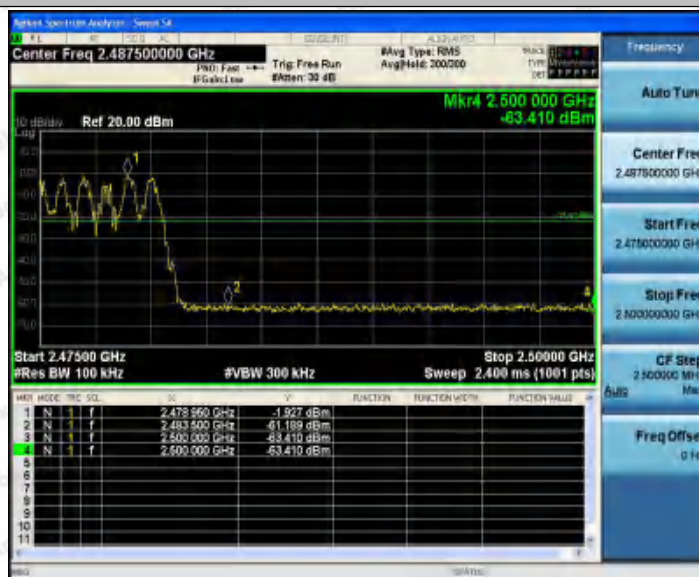
DH5_Ant1_High_2480



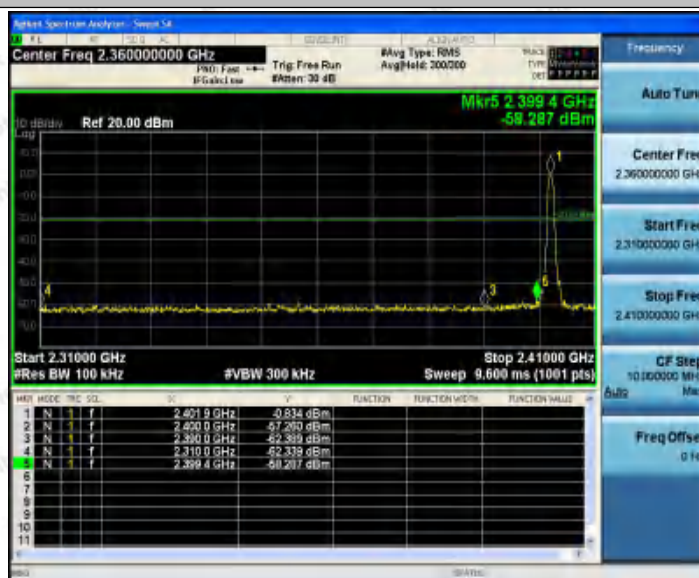
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



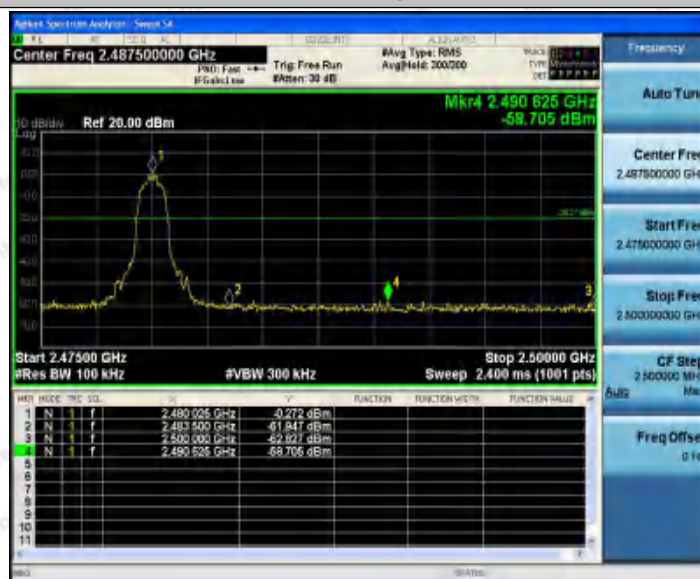
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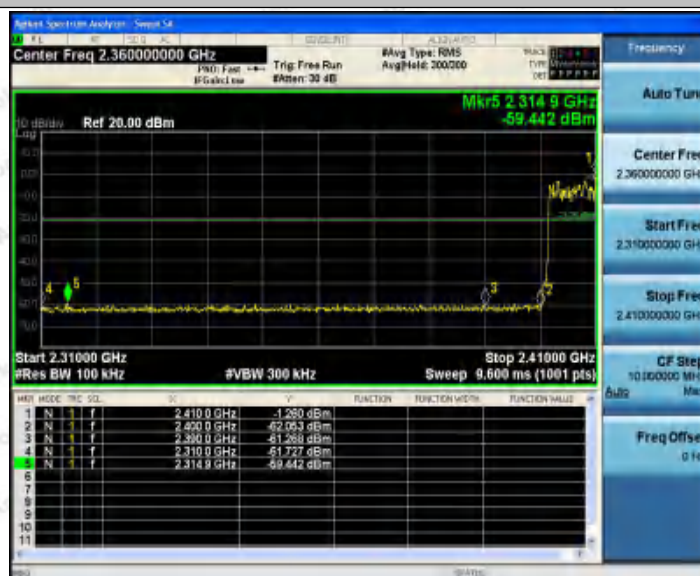
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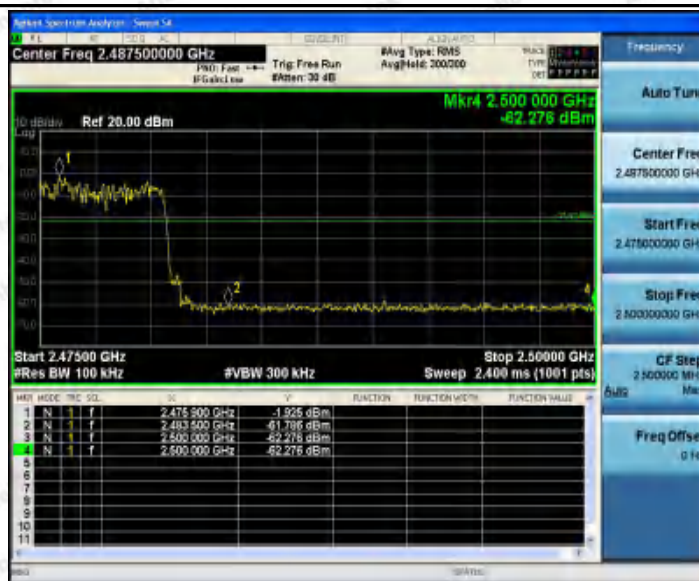
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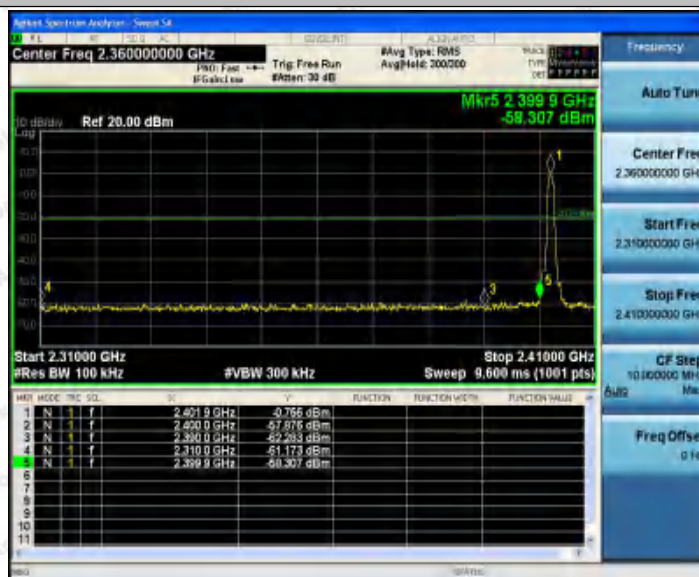
2DH5_Ant1_Low_Hop



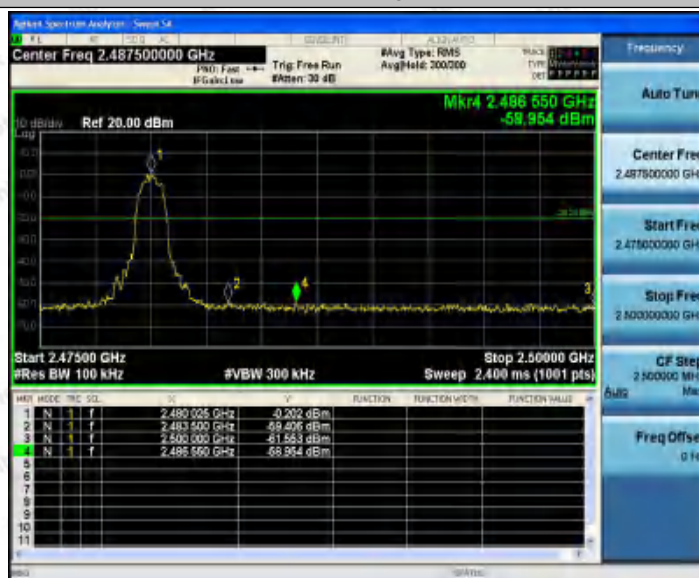
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



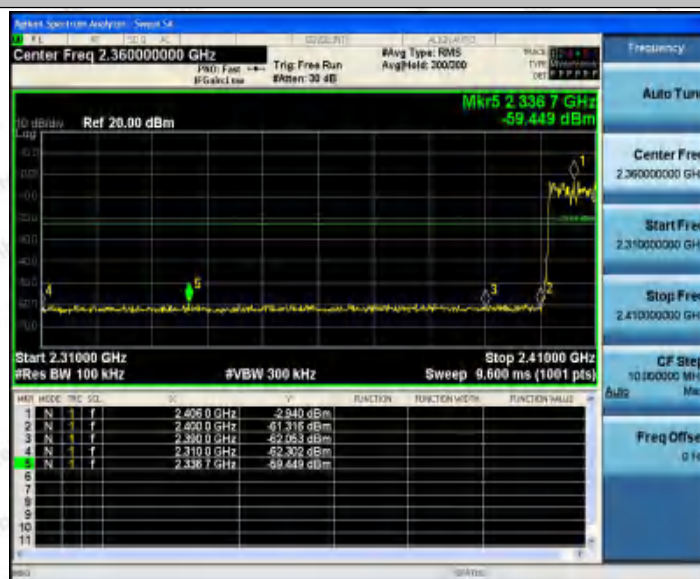
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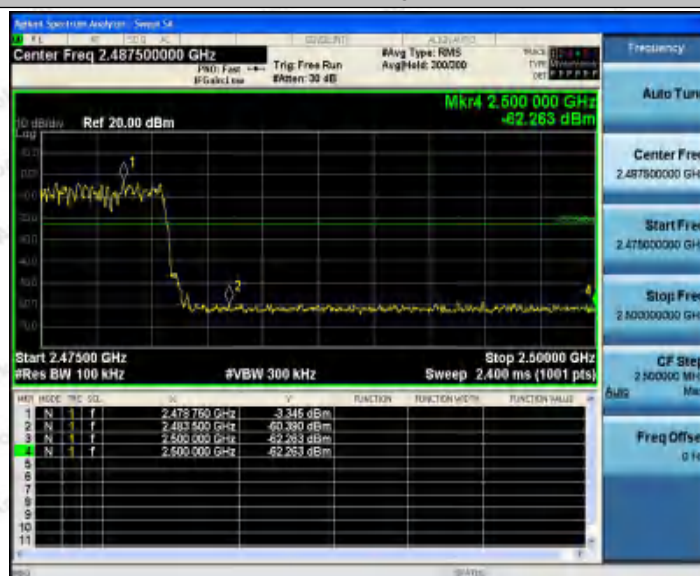
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

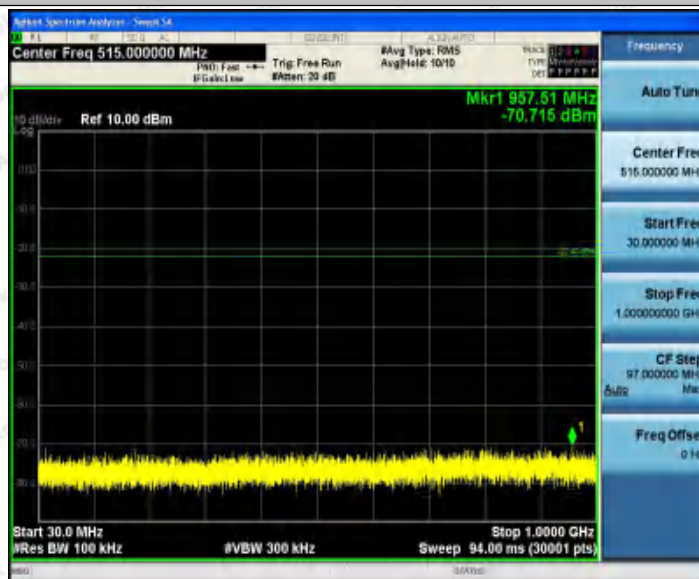
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-70.72	≤-22.4	PASS
			1000~26500	-2.40	-55.52	≤-22.4	PASS
		2441	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-70.17	≤-23.07	PASS
			1000~26500	-3.07	-54.62	≤-23.07	PASS
		2480	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-70.06	≤-21.92	PASS
			1000~26500	-1.92	-55.29	≤-21.92	PASS
2DH5	Ant1	2402	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-70.31	≤-20.99	PASS
			1000~26500	-0.99	-55.53	≤-20.99	PASS
		2441	Reference	-2.08	-2.08	---	PASS
			30~1000	-2.08	-69.79	≤-22.08	PASS
			1000~26500	-2.08	-55.43	≤-22.08	PASS
		2480	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-69.98	≤-20.54	PASS
			1000~26500	-0.54	-54.81	≤-20.54	PASS
3DH5	Ant1	2402	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-69.8	≤-20.85	PASS
			1000~26500	-0.85	-53.57	≤-20.85	PASS
		2441	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-70.2	≤-22.01	PASS
			1000~26500	-2.01	-53.31	≤-22.01	PASS
		2480	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-69.14	≤-20.47	PASS
			1000~26500	-0.47	-54.01	≤-20.47	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



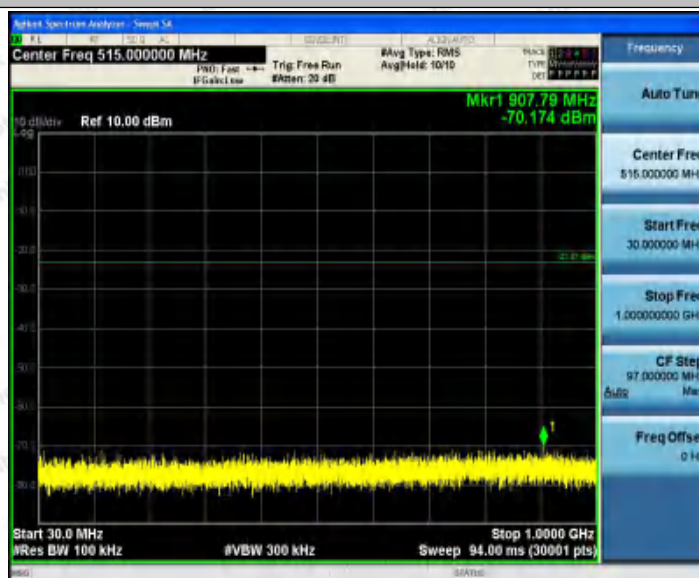
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



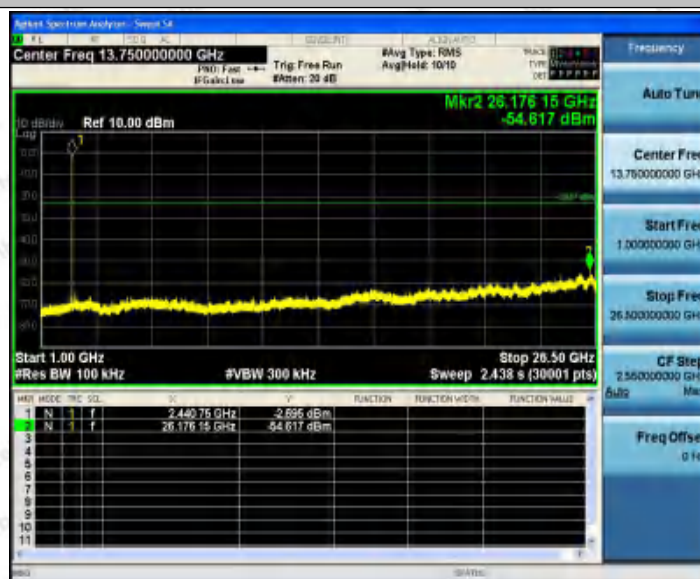
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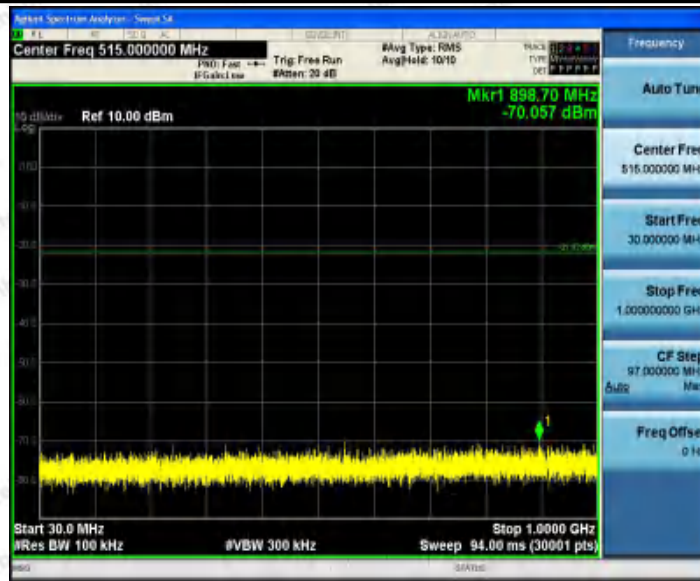
DH5_Ant1_2441_1000~26500



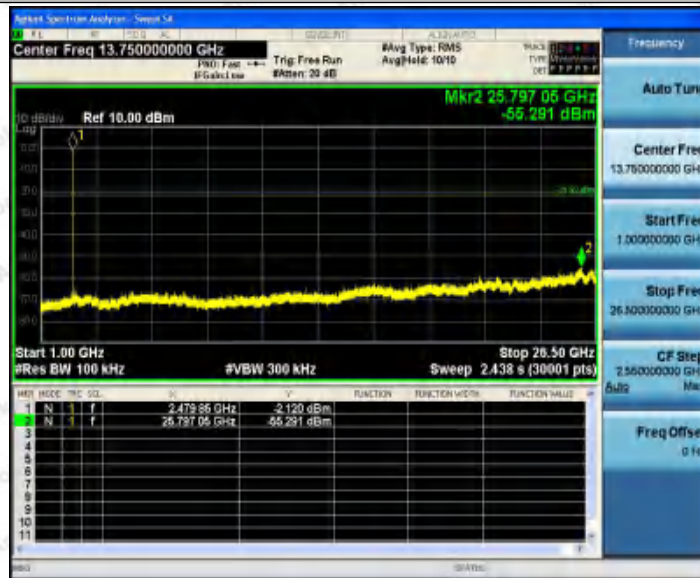
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



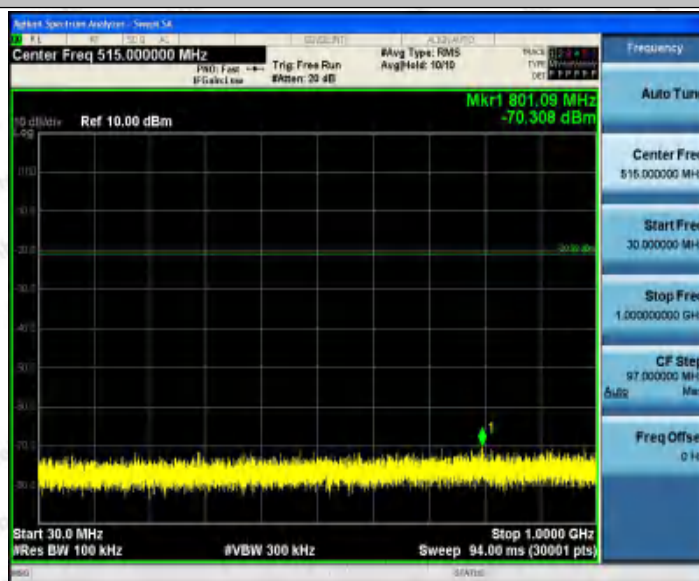
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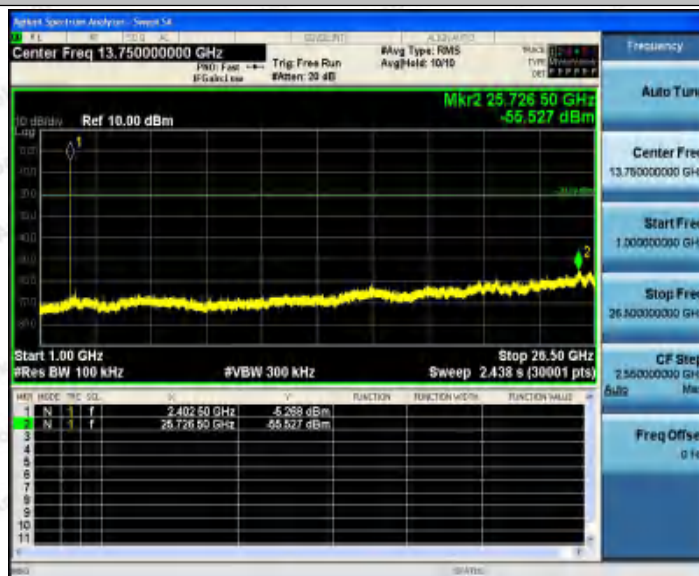
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2DH5_Ant1_2402_30~1000



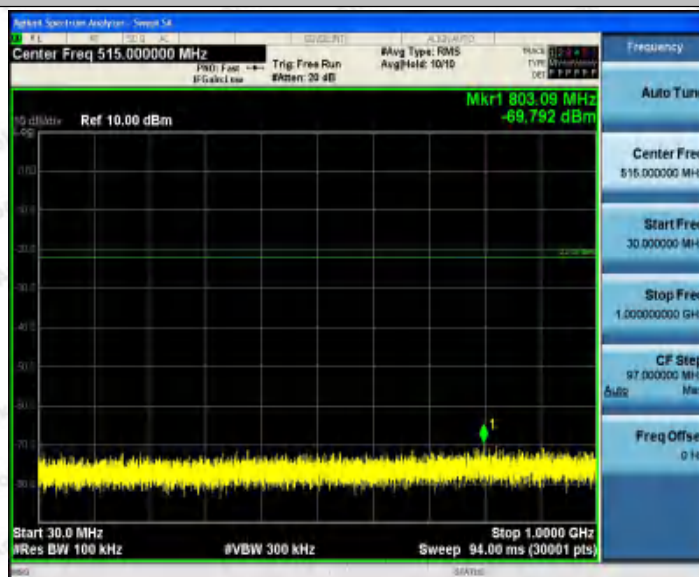
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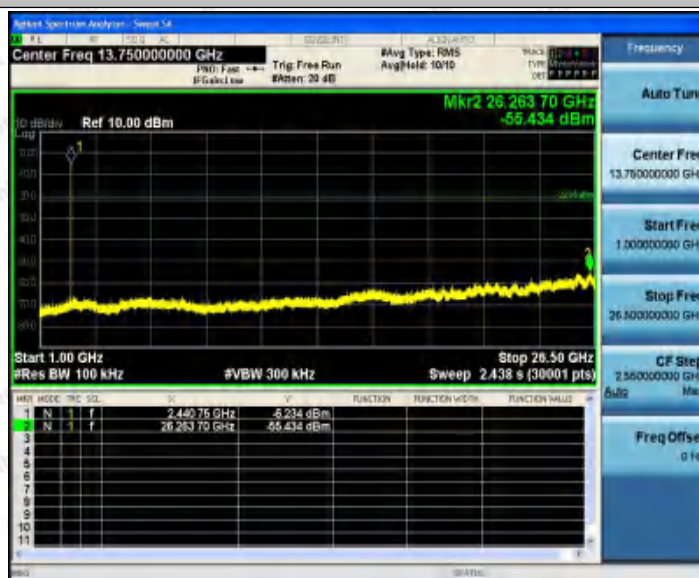
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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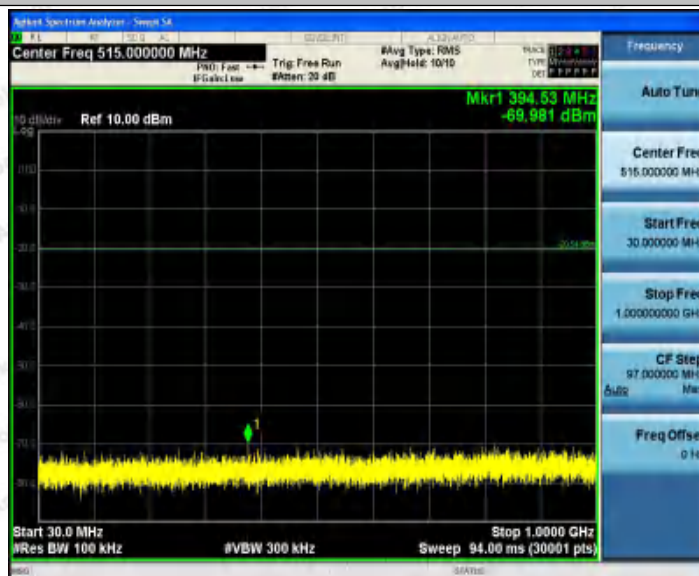
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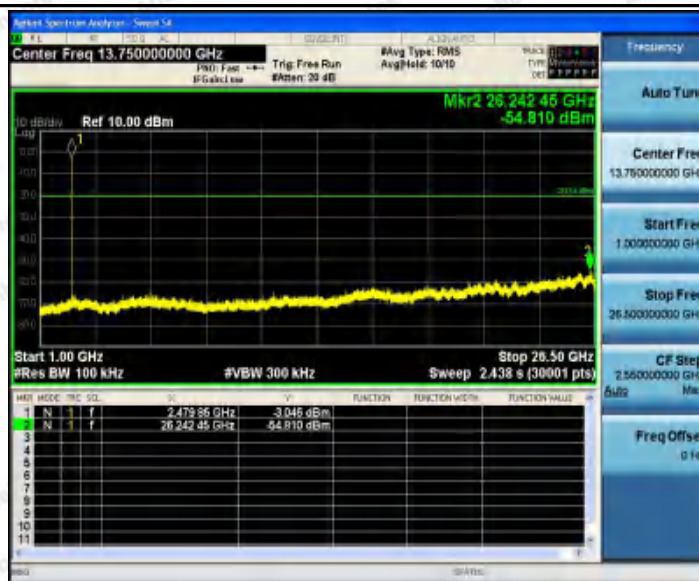
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2DH5_Ant1_2480_30~1000



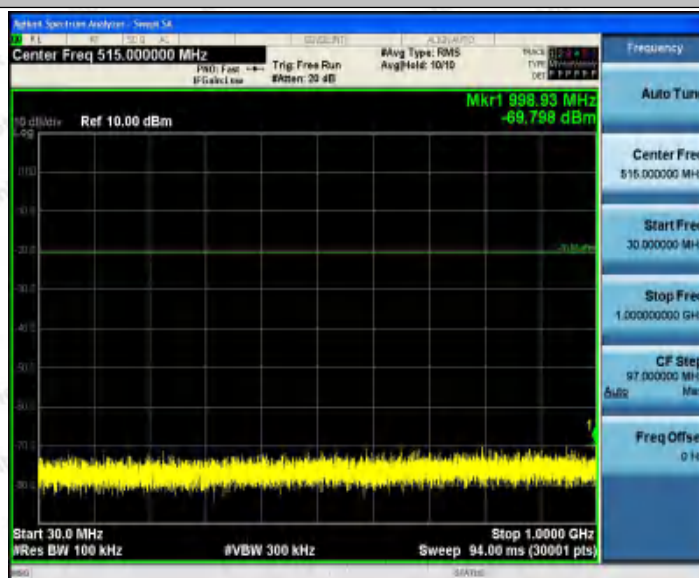
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



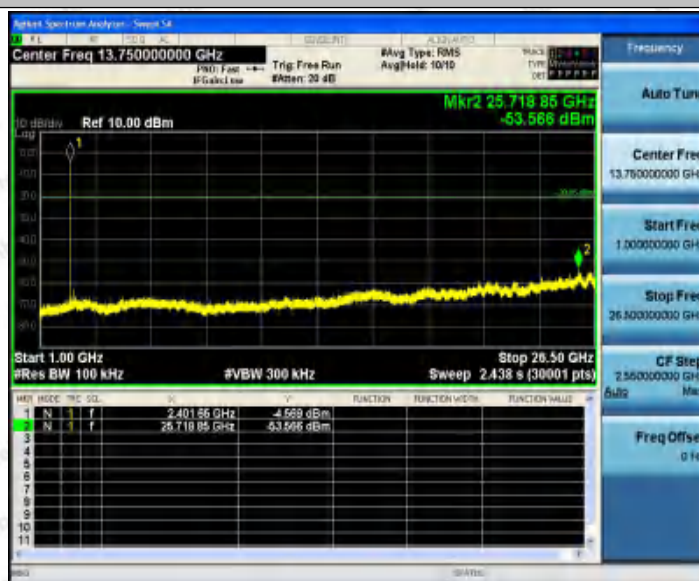
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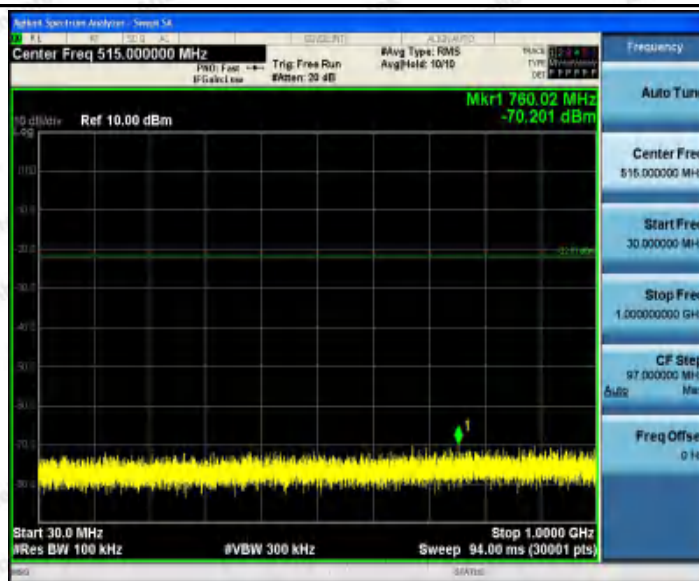
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

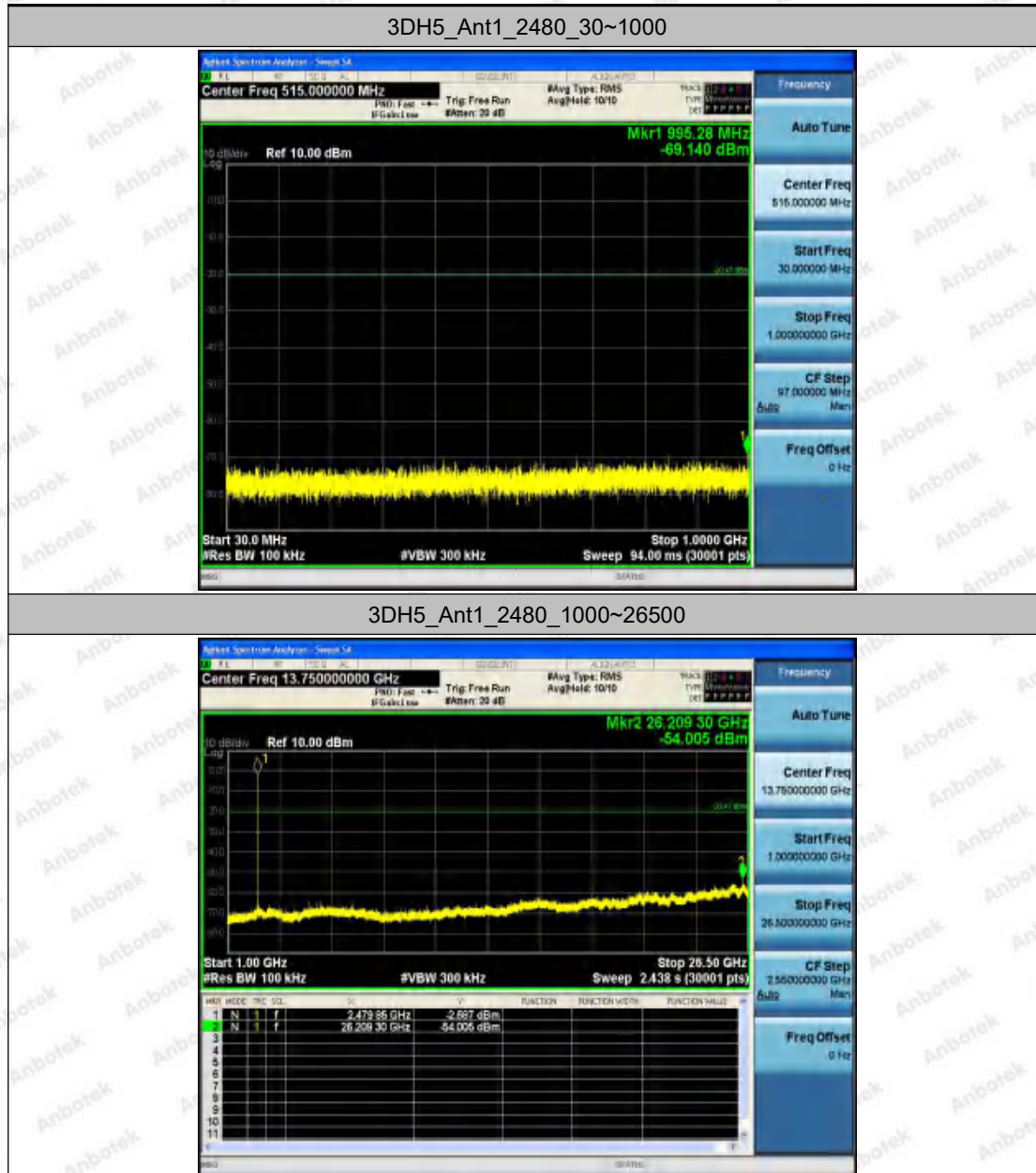


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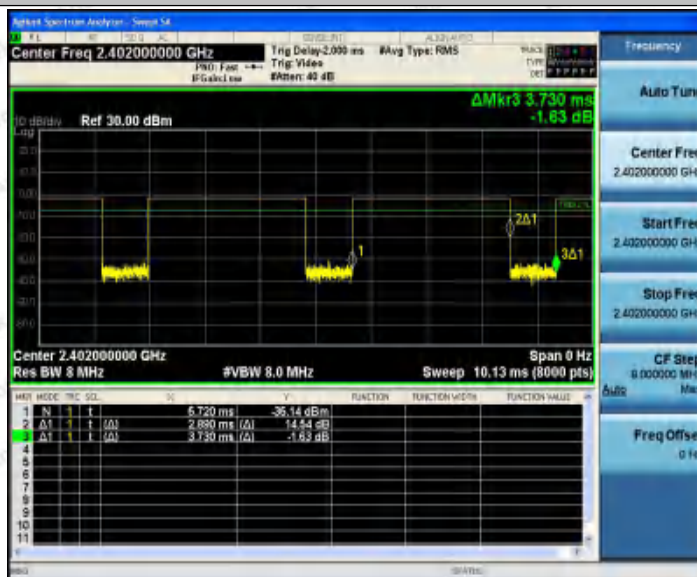
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.73	0.774 8	77.48	1.11	---	PASS
2DH5	Ant1	2402	2.88	3.73	0.772 1	77.21	1.12	---	PASS
3DH5	Ant1	2402	2.89	3.73	0.774 8	77.48	1.11	---	PASS

Test Graphs

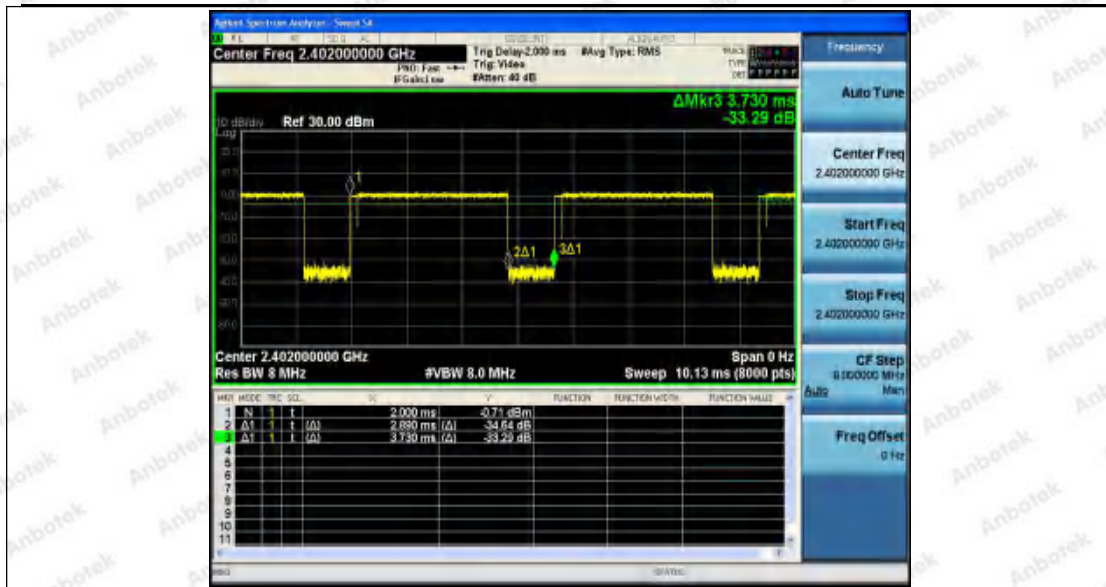
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---

Test Graphs

Emissions in Restricted Bands measurements