

Appendix Test Data

Report No.:	18220WC10162401	Test Date:	2021.7.21
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3C°	Relative Humidity:	56.8 %
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	0.954	2401.532	2402.486	---	PASS
		2441	0.945	2440.532	2441.477	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.257	2401.364	2402.621	---	PASS
		2441	1.317	2440.337	2441.654	---	PASS
		2480	1.314	2479.337	2480.651	---	PASS
3DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.311	2440.337	2441.648	---	PASS
		2480	1.272	2479.346	2480.618	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



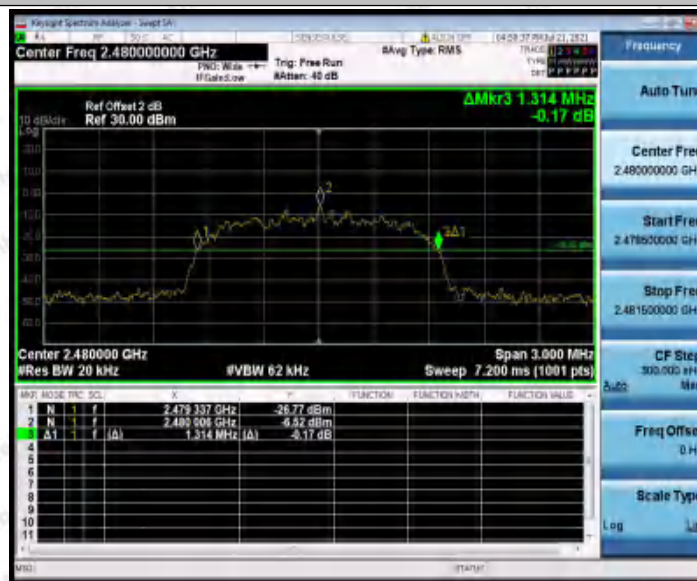
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5 Ant1 2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89627	2401.548	2402.444	---	PASS
		2441	0.89604	2440.548	2441.444	---	PASS
		2480	0.89280	2479.547	2480.440	---	PASS
2DH5	Ant1	2402	1.1979	2401.397	2402.595	---	PASS
		2441	1.1885	2440.399	2441.587	---	PASS
		2480	1.1808	2479.403	2480.583	---	PASS
3DH5	Ant1	2402	1.2089	2401.384	2402.593	---	PASS
		2441	1.2075	2440.382	2441.590	---	PASS
		2480	1.1960	2479.391	2480.587	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



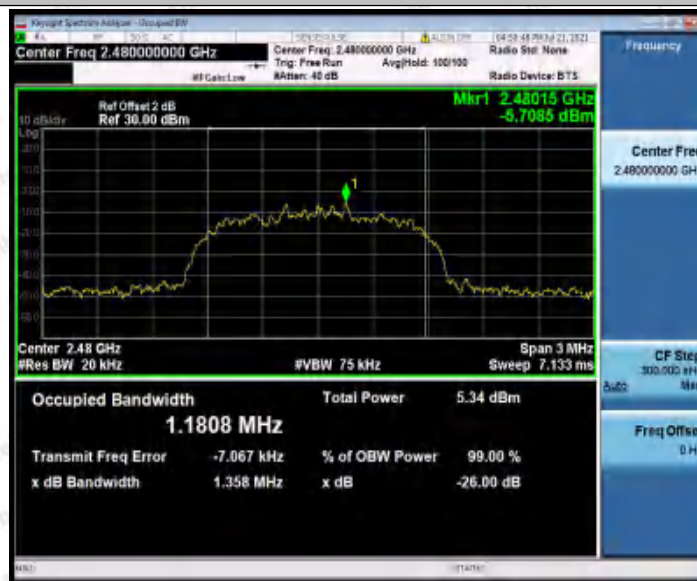
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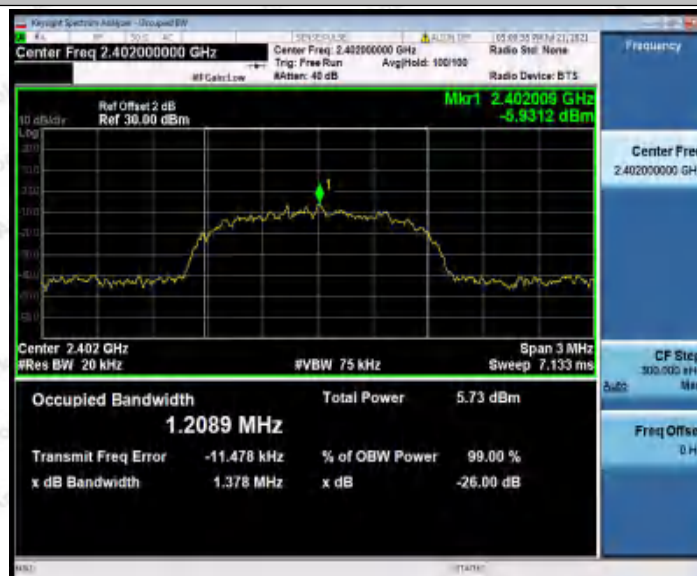
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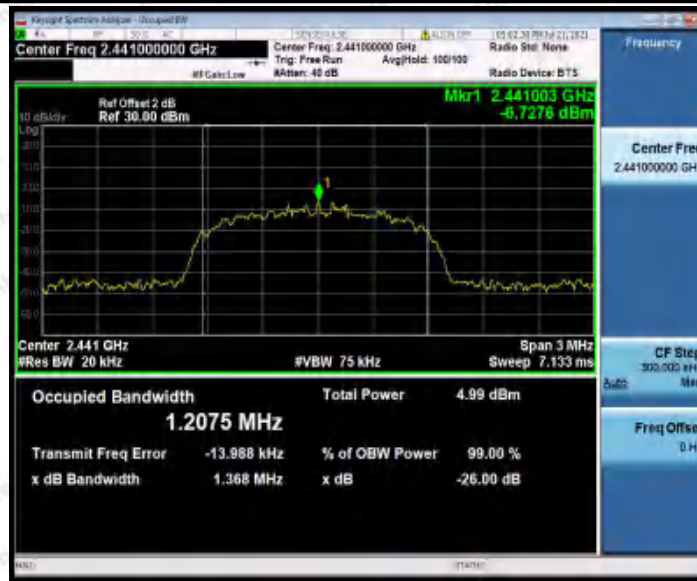
2DH5_Ant1_2480



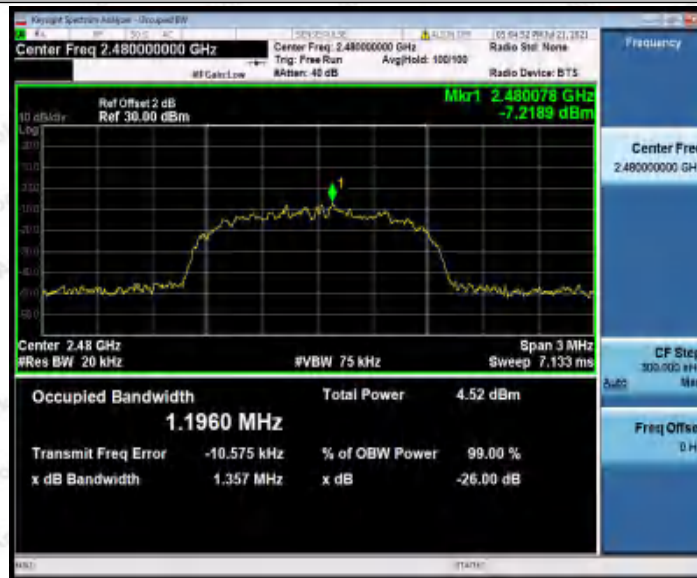
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



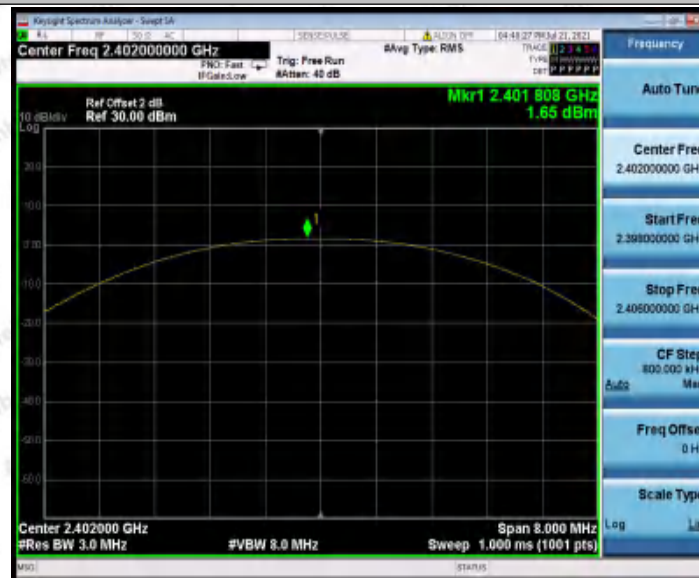
Appendix C: Maximum conducted output power

Test Result

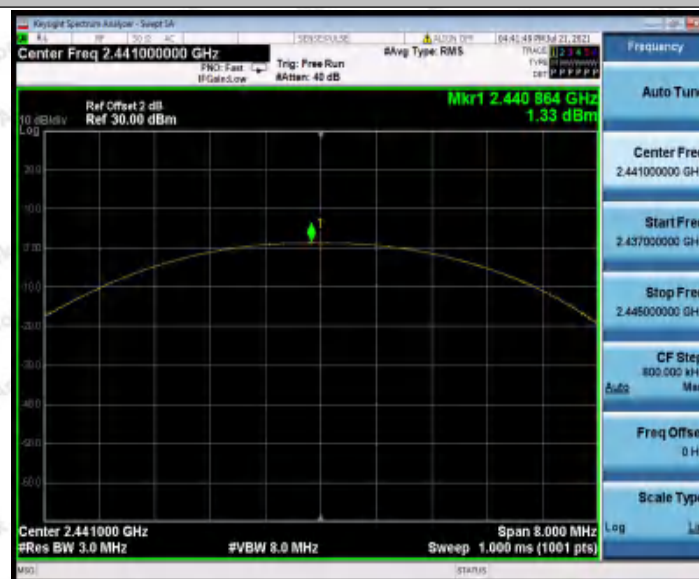
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.65	<=20.97	PASS
		2441	1.33	<=20.97	PASS
		2480	1.06	<=20.97	PASS
2DH5	Ant1	2402	1.07	<=20.97	PASS
		2441	0.7	<=20.97	PASS
		2480	0.2	<=20.97	PASS
3DH5	Ant1	2402	0.98	<=20.97	PASS
		2441	0.77	<=20.97	PASS
		2480	7.38	<=20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



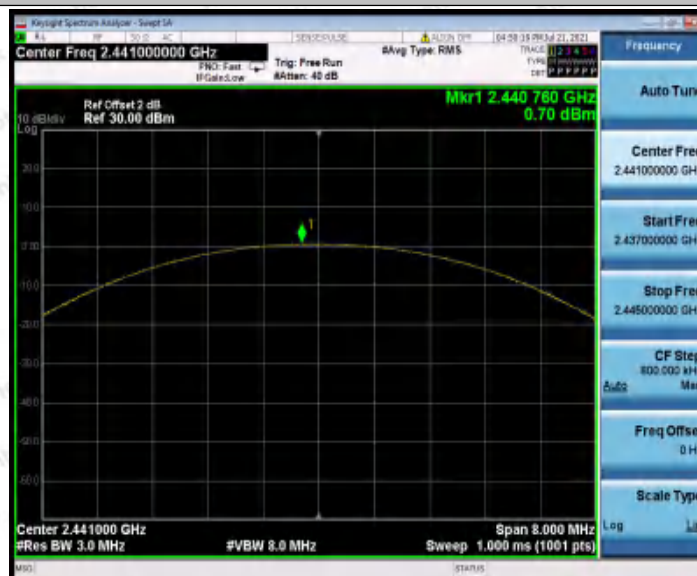
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



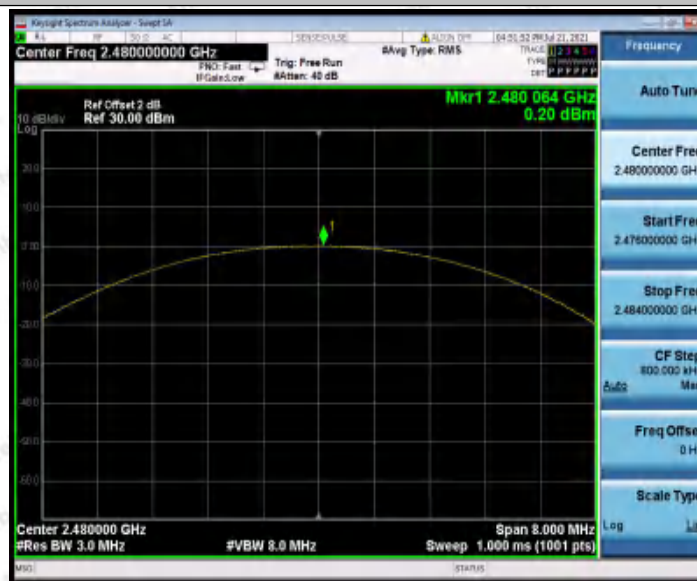
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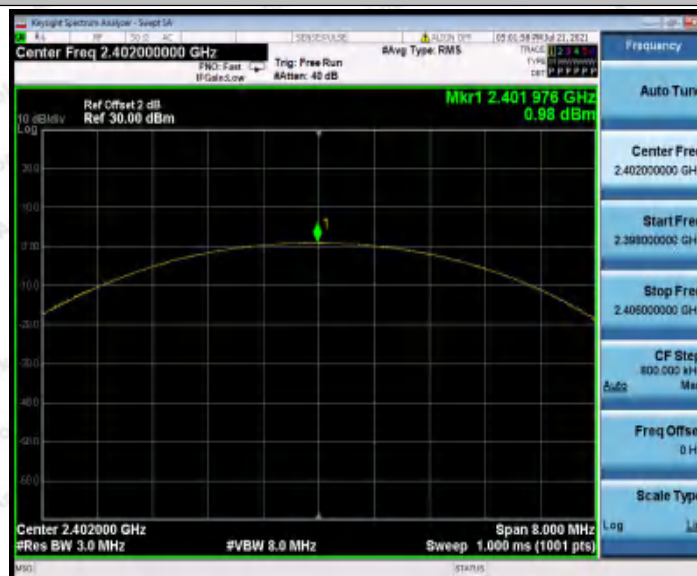
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.676	≥ 0.636	PASS
2DH5	Ant1	Hop	0.984	≥ 0.878	PASS
3DH5	Ant1	Hop	0.998	≥ 0.878	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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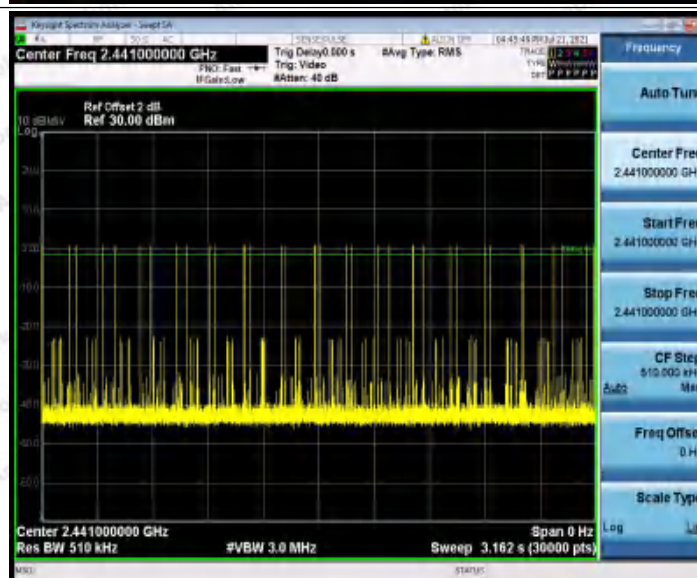
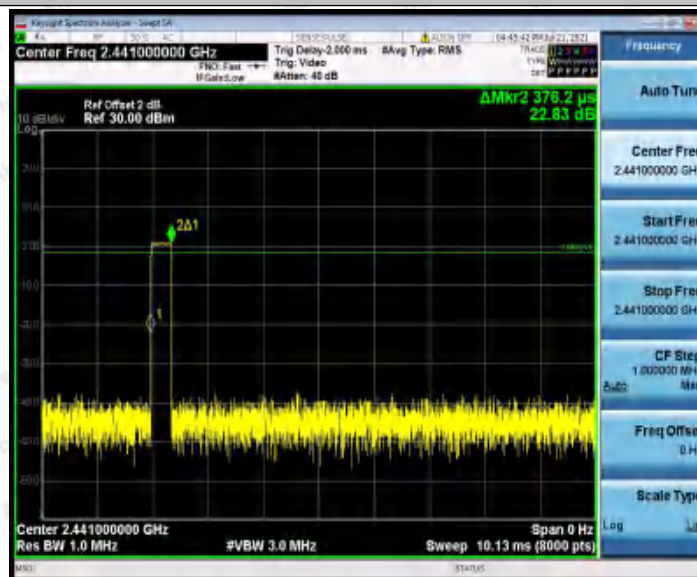
Appendix E: Time of occupancy

Test Result

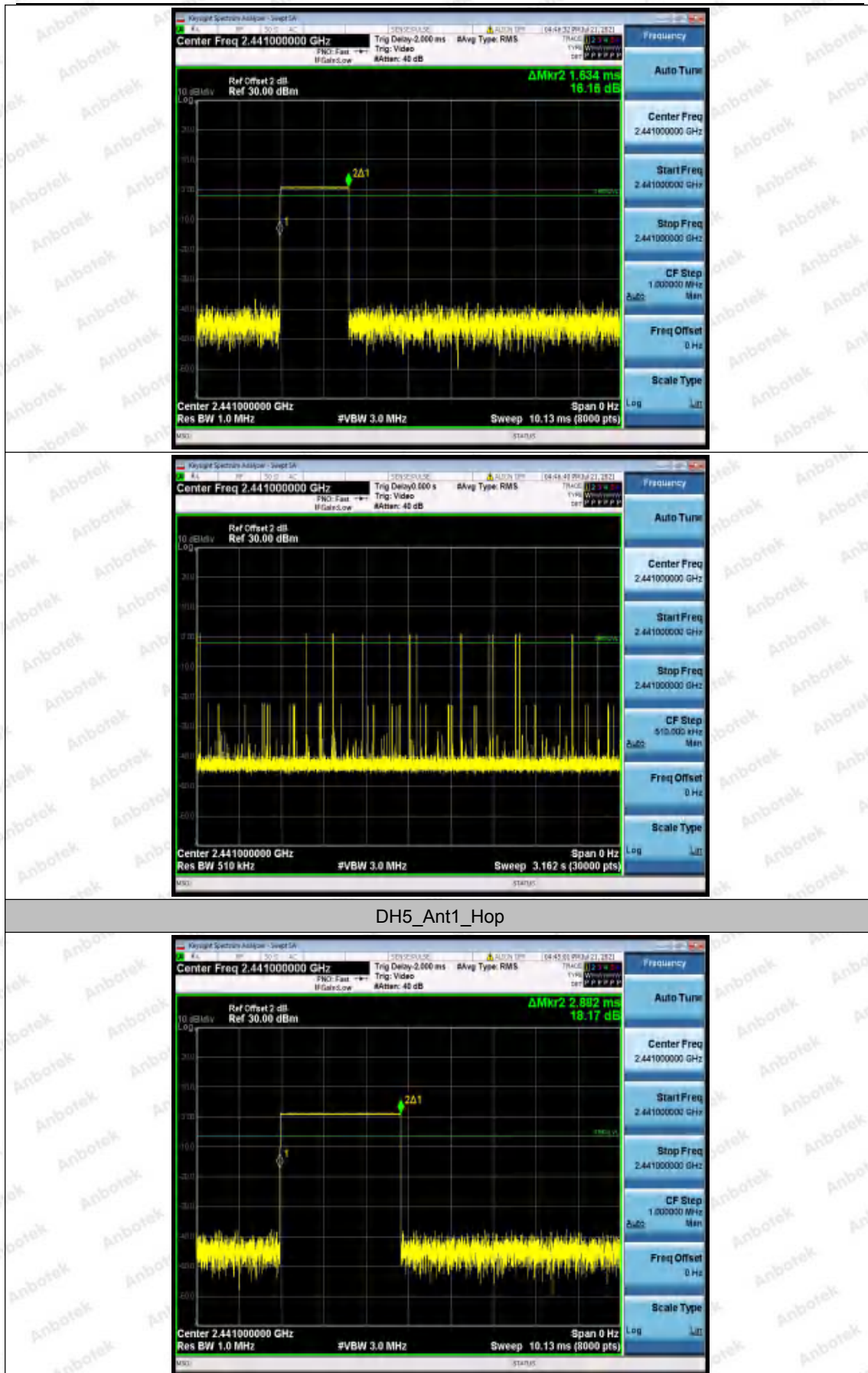
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.124	<=0.4	PASS
DH3	Ant1	Hop	1.63	150	0.245	<=0.4	PASS
DH5	Ant1	Hop	2.88	90	0.259	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.127	<=0.4	PASS
2DH3	Ant1	Hop	1.64	170	0.278	<=0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	<=0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
3DH3	Ant1	Hop	1.64	190	0.311	<=0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	<=0.4	PASS

Test Graphs

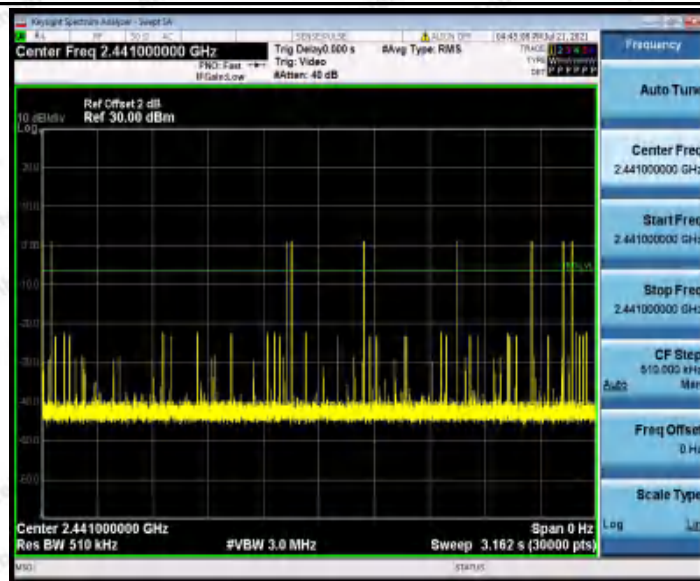
DH1_Ant1_Hop



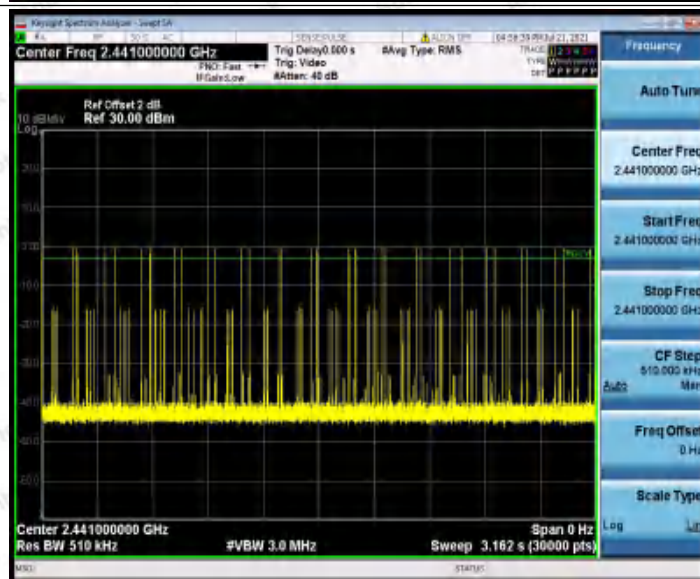
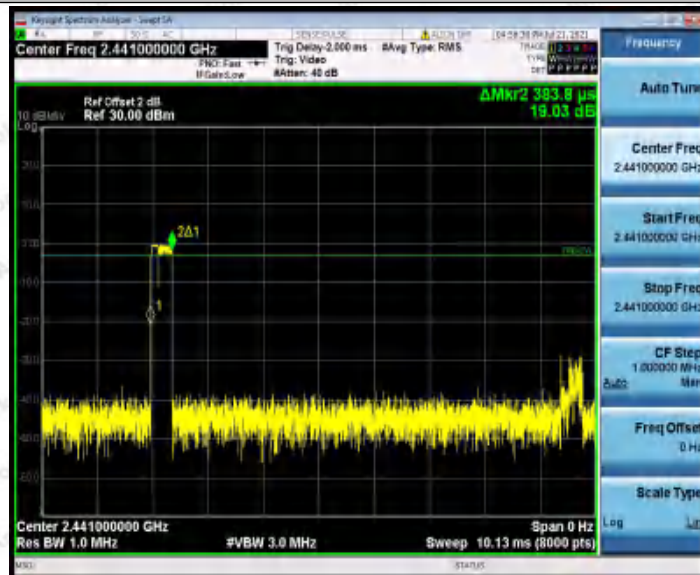
DH3_Ant1_Hop



DH5_Ant1_Hop



2DH1_Ant1_Hop



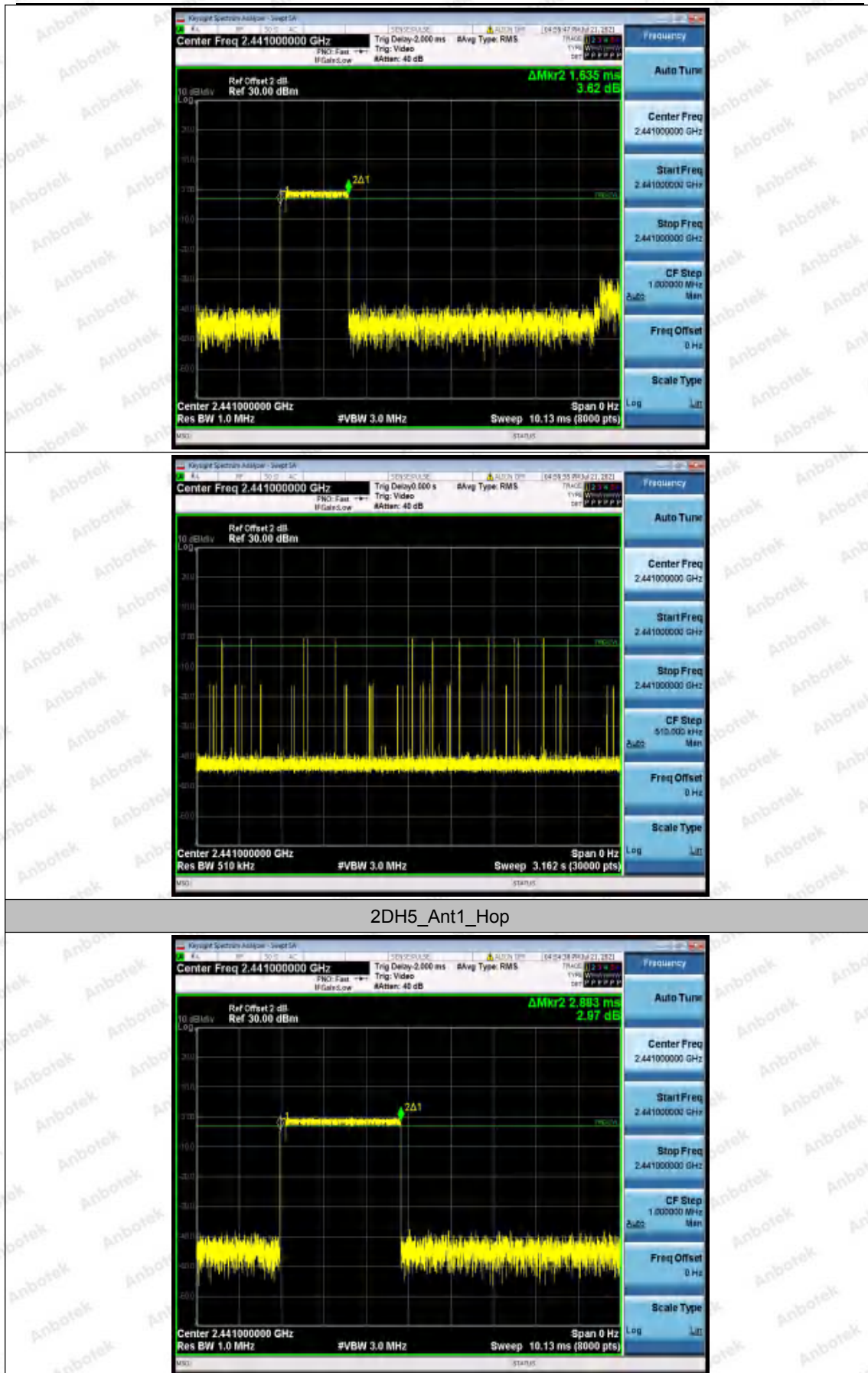
2DH3_Ant1_Hop

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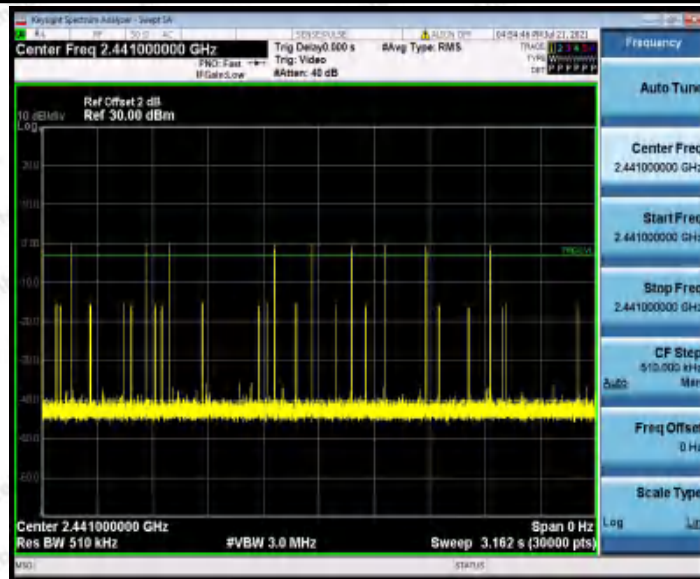
2DH5_Ant1_Hop

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3DH1_Ant1_Hop



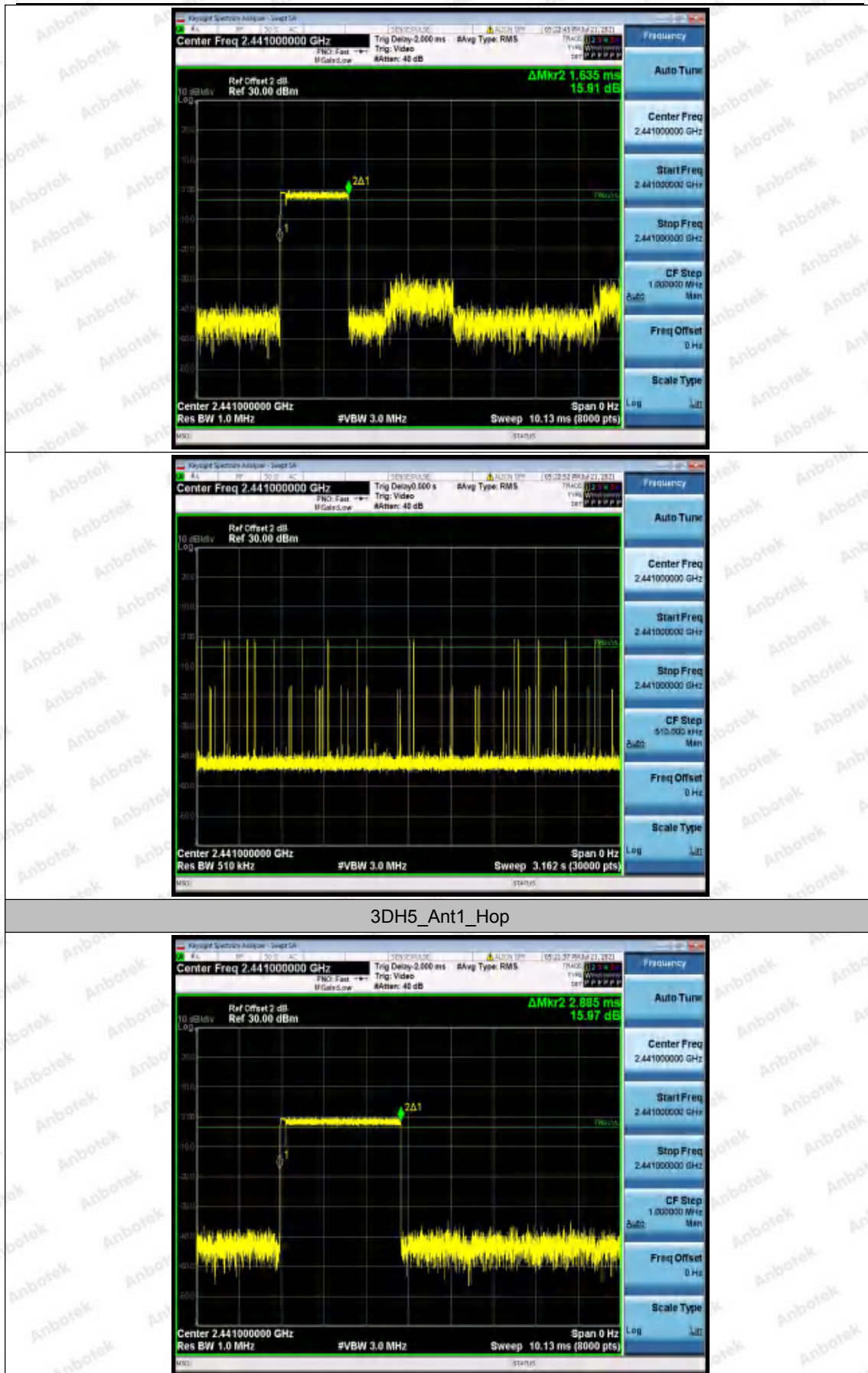
3DH3_Ant1_Hop

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3DH5_Ant1_Hop

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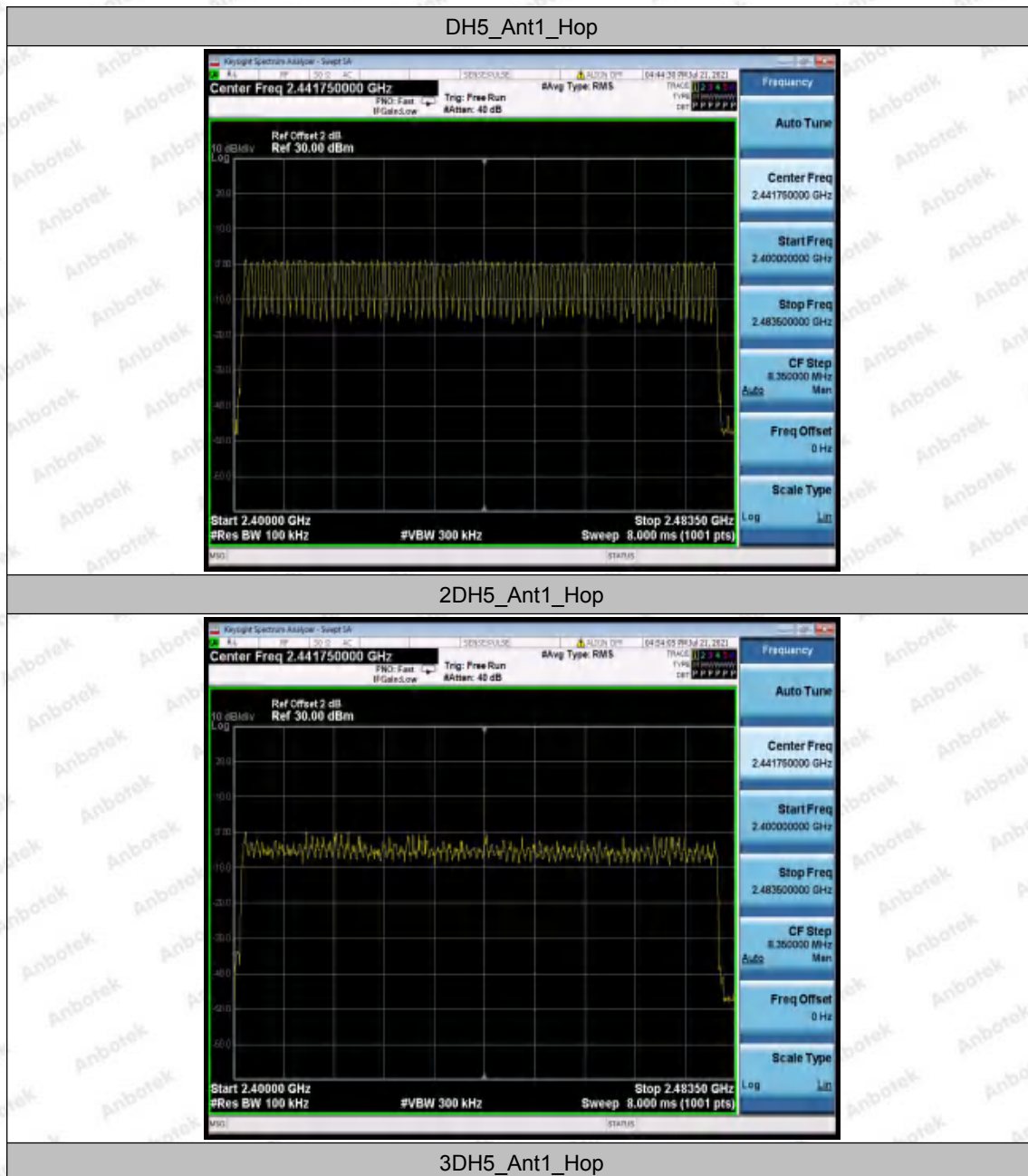


Appendix F: Number of hopping channels

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





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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	1.15	-45.93	<=-18.85	PASS
		High	2480	0.57	-48.04	<=-19.43	PASS
		Low	Hop	1.00	-52.28	<=-19	PASS
		High	Hop	0.17	-58.6	<=-19.83	PASS
2DH5	Ant1	Low	2402	0.28	-46.53	<=-19.72	PASS
		High	2480	-0.87	-53.88	<=-20.87	PASS
		Low	Hop	-3.03	-55.87	<=-23.03	PASS
		High	Hop	-2.58	-58.3	<=-22.58	PASS
3DH5	Ant1	Low	2402	0.15	-47.36	<=-19.85	PASS
		High	2480	-1.05	-54.09	<=-21.05	PASS
		Low	Hop	-0.48	-54.43	<=-20.48	PASS
		High	Hop	-1.23	-57.55	<=-21.23	PASS

Test Graphs

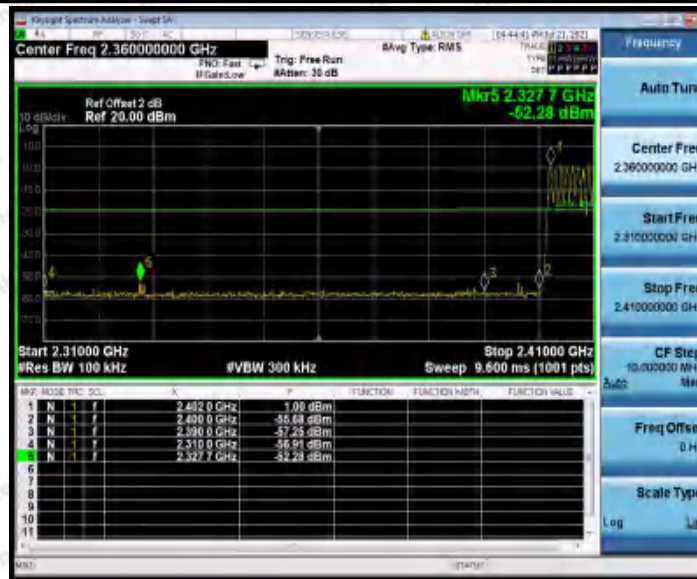
DH5_Ant1_Low_2402



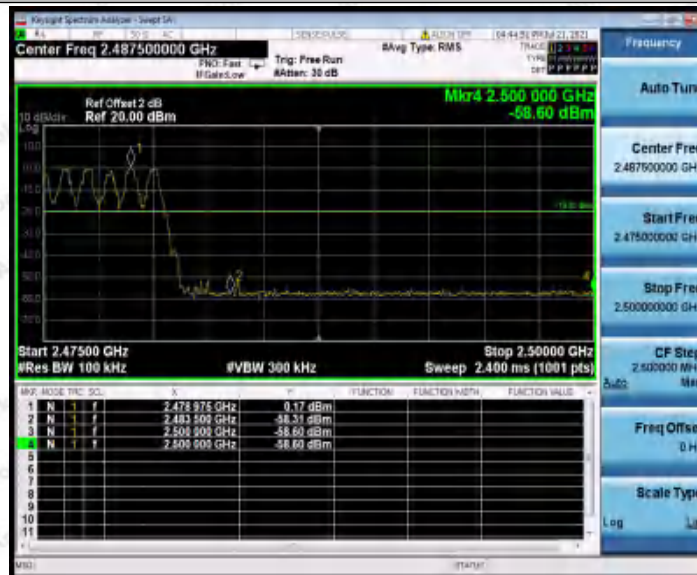
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



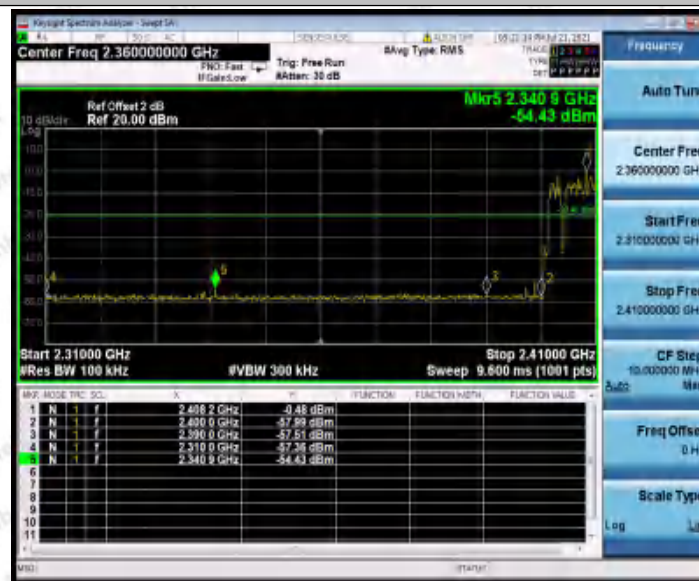
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

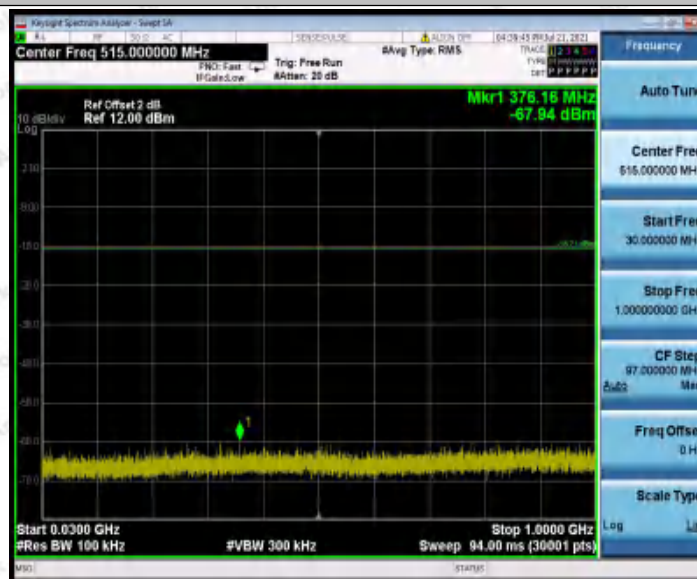
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-67.94	<=-18.71	PASS
			1000~26500	1.29	-46.39	<=-18.71	PASS
		2441	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-67.77	<=-19.1	PASS
			1000~26500	0.90	-49.61	<=-19.1	PASS
		2480	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-68.85	<=-19.49	PASS
			1000~26500	0.51	-49.68	<=-19.49	PASS
2DH5	Ant1	2402	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-68.21	<=-19.71	PASS
			1000~26500	0.29	-50.74	<=-19.71	PASS
		2441	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-68.46	<=-20.62	PASS
			1000~26500	-0.62	-53.22	<=-20.62	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-68.18	<=-21.22	PASS
			1000~26500	-1.22	-52.52	<=-21.22	PASS
3DH5	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-64.08	<=-19.75	PASS
			1000~26500	0.25	-47.21	<=-19.75	PASS
		2441	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-63.52	<=-20.37	PASS
			1000~26500	-0.37	-50.87	<=-20.37	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-64.88	<=-20.95	PASS
			1000~26500	-0.95	-50.3	<=-20.95	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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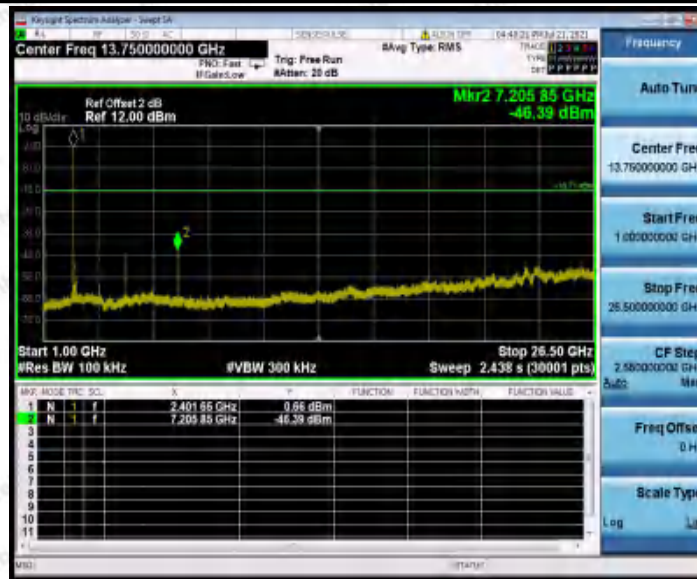
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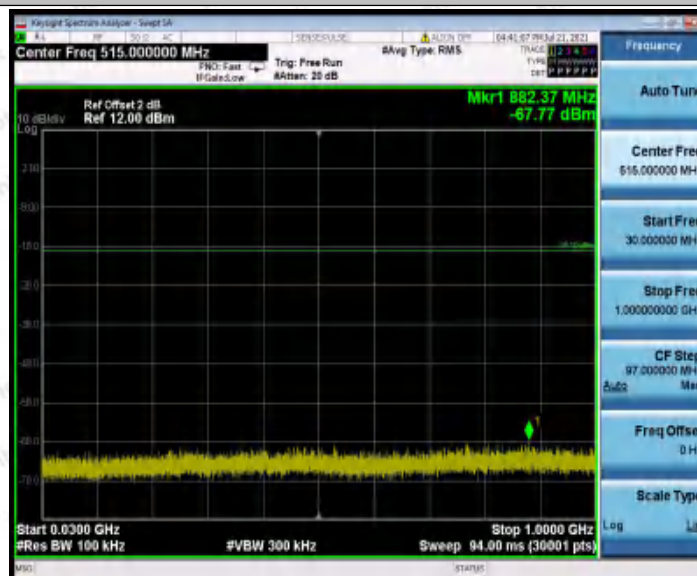
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



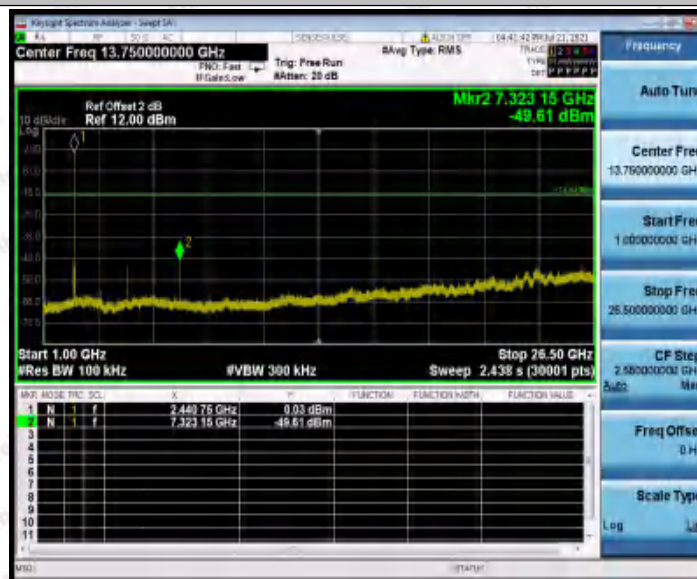
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

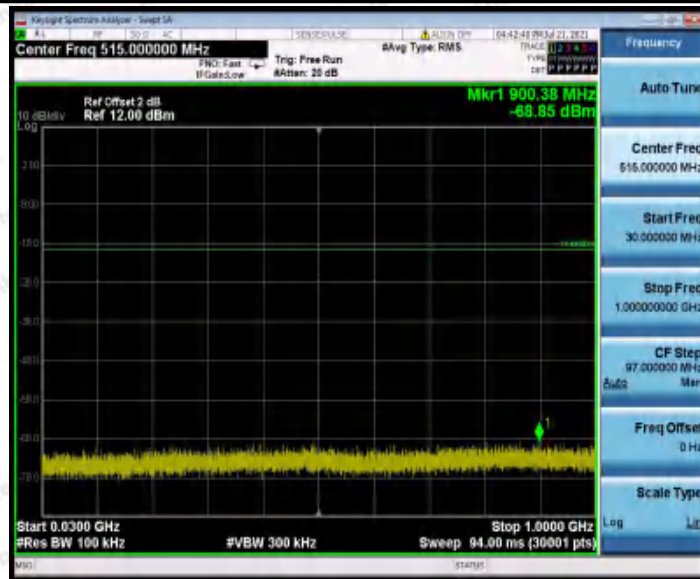
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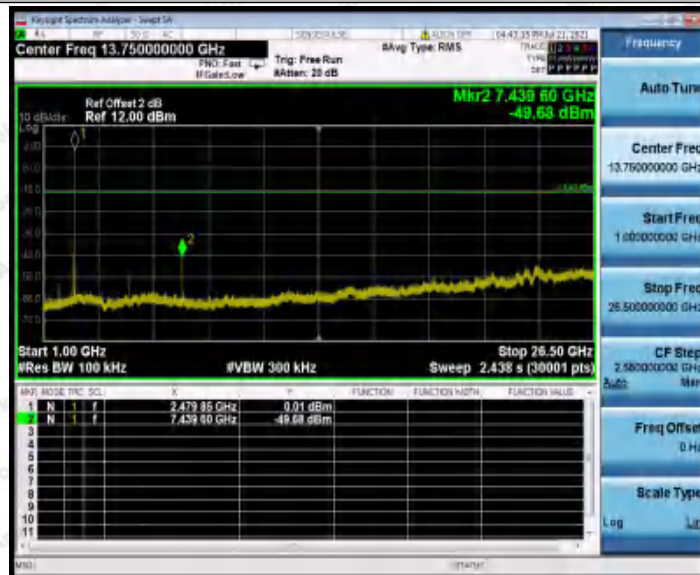
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



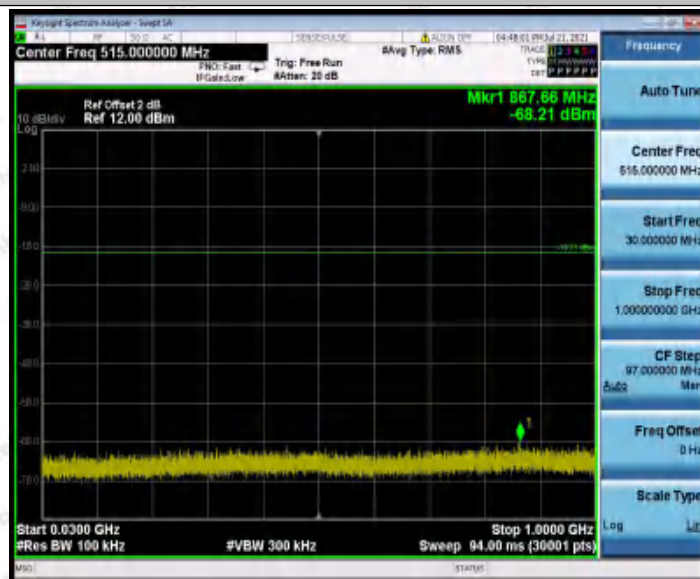
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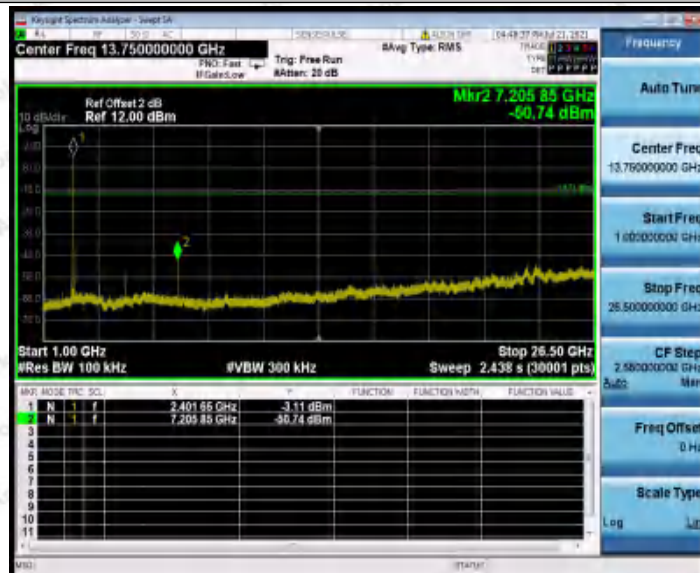
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2DH5_Ant1_2402_30~1000



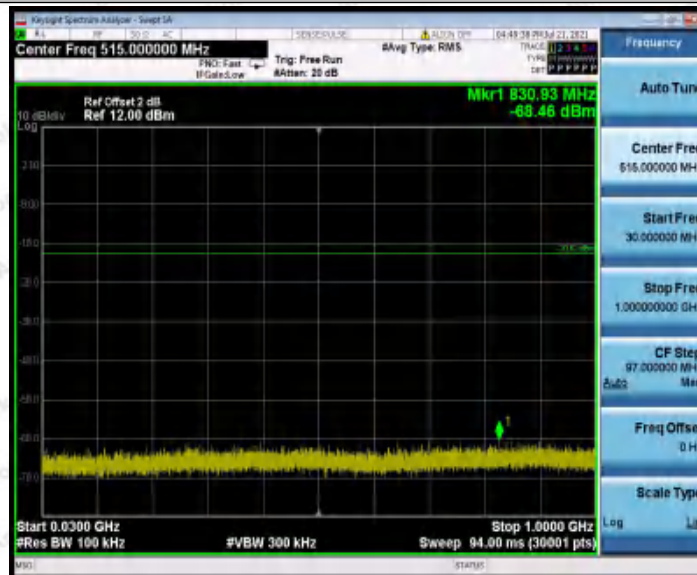
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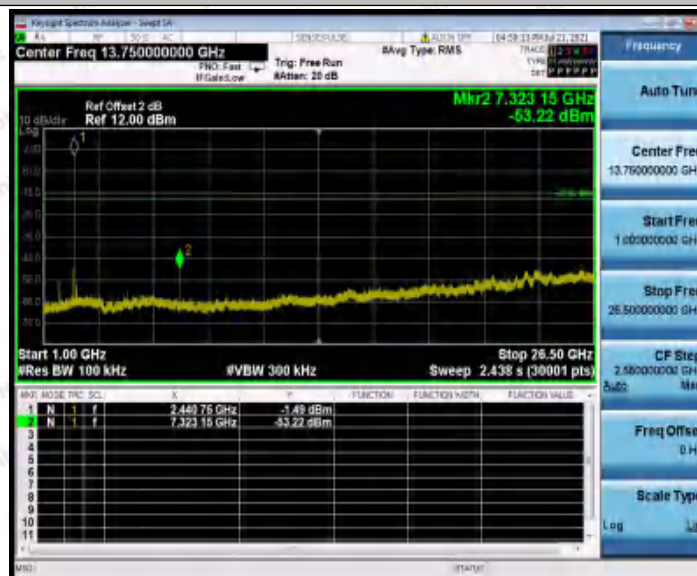
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



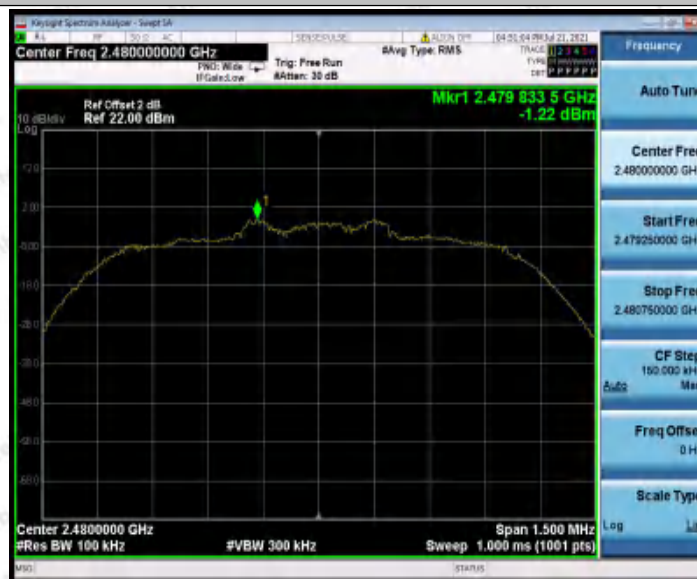
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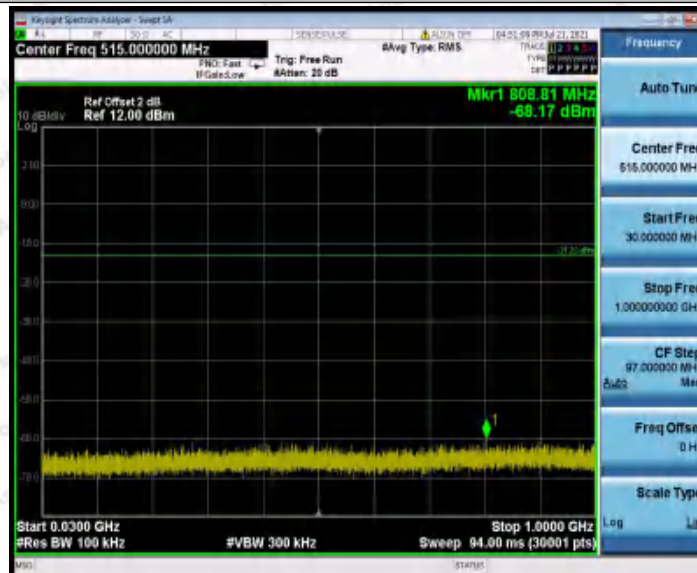
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



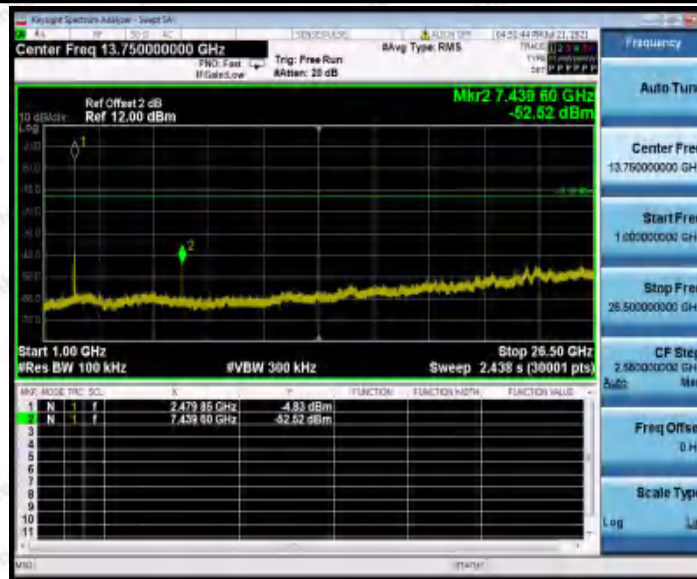
2DH5_Ant1_2480_1000~26500

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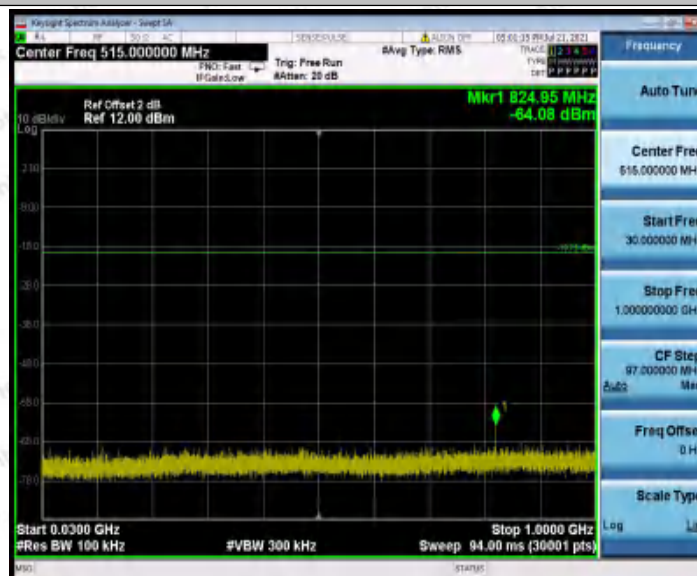
Hotline
400-003-0500
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



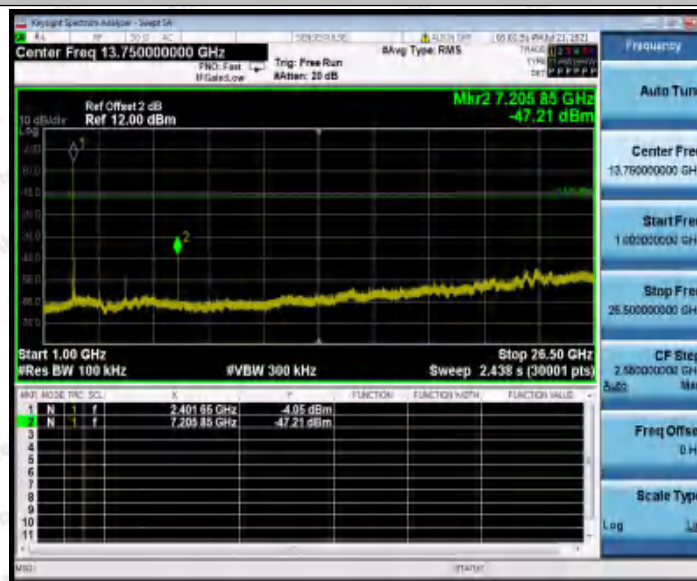
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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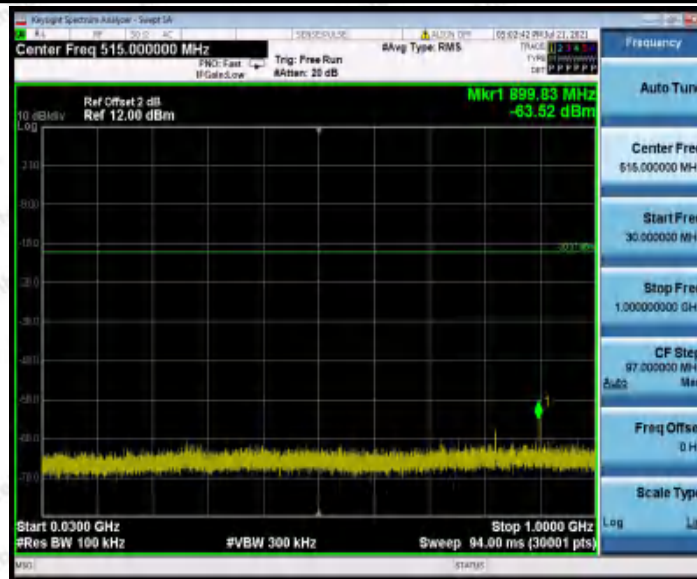
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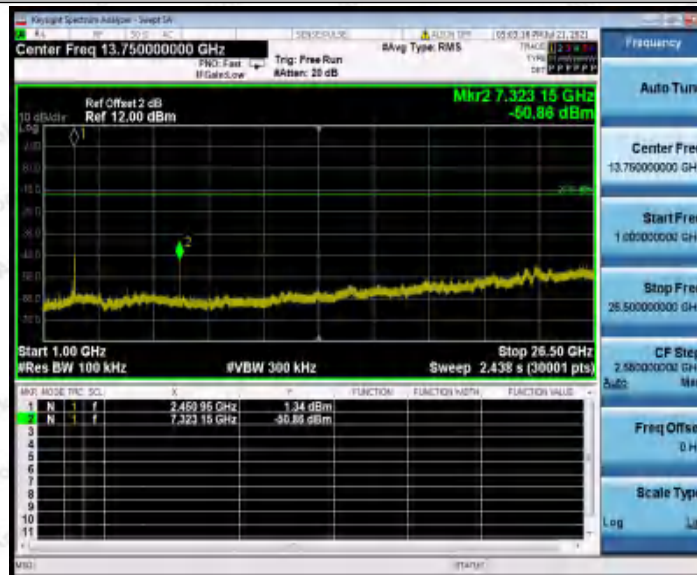
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

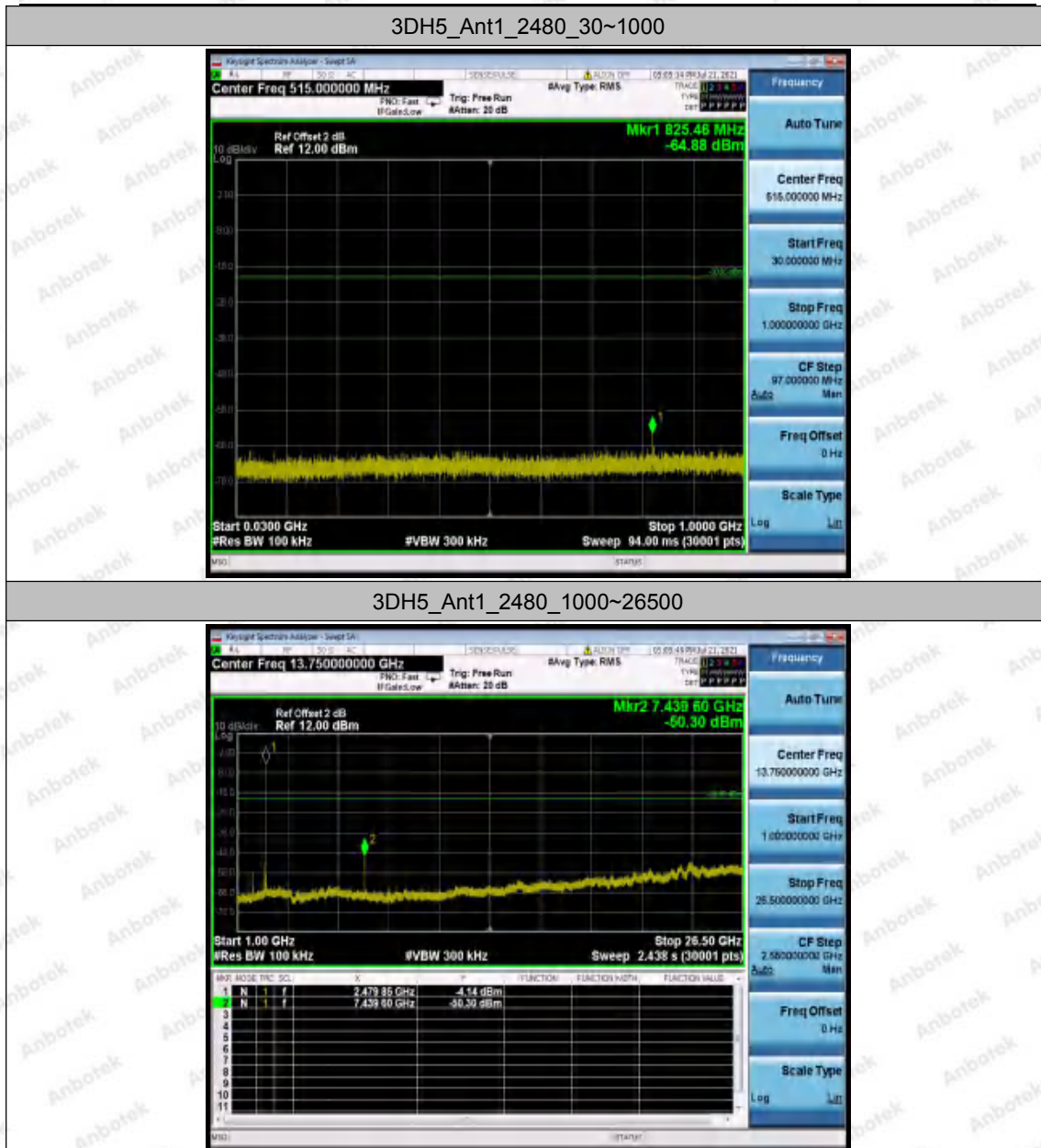


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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

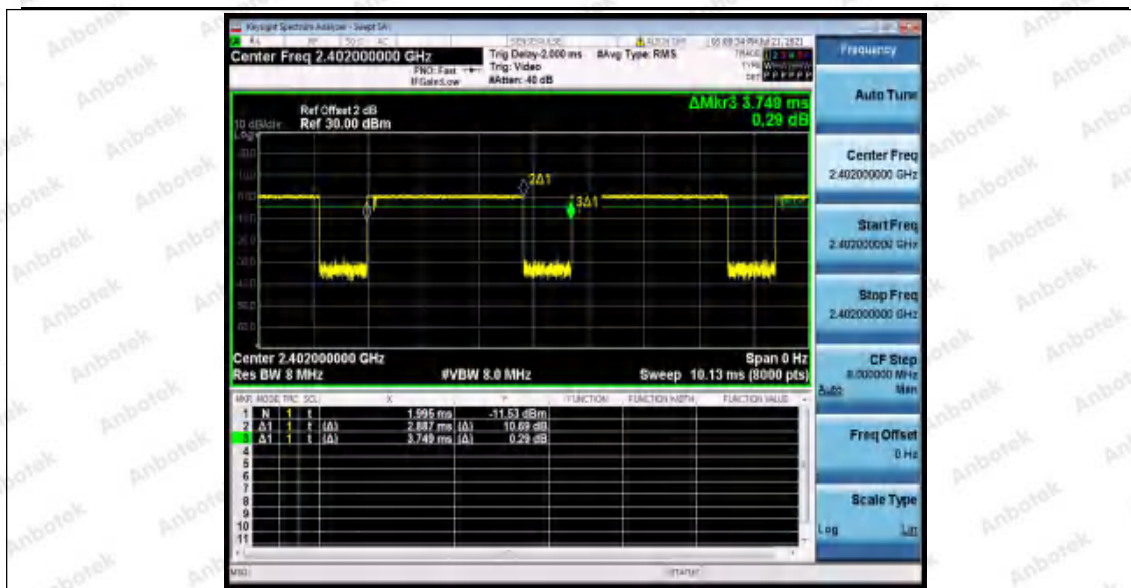
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---