

Appendix Test Data

Project No.:	18220WC10150101	Test Date:	2021.7.9~22
Test Engineer:	<i>Jony 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	0.951	2401.532	2402.483	---	PASS
		2441	0.945	2440.535	2441.480	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.275	2401.355	2402.630	---	PASS
		2441	1.323	2440.334	2441.657	---	PASS
		2480	1.317	2479.334	2480.651	---	PASS
3DH5	Ant1	2402	1.272	2401.346	2402.618	---	PASS
		2441	1.284	2440.343	2441.627	---	PASS
		2480	1.266	2479.355	2480.621	---	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

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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

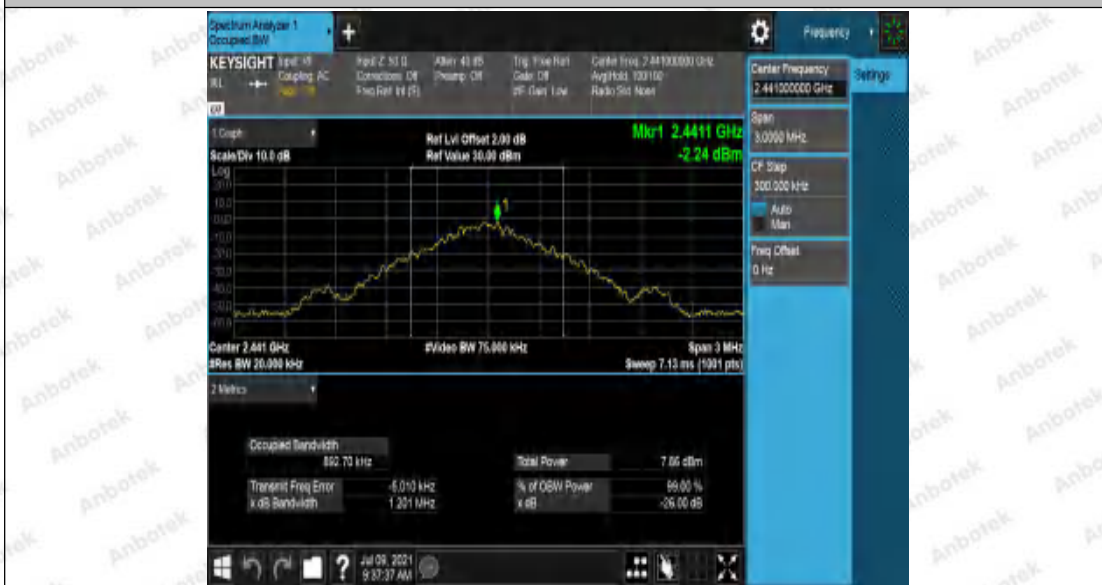
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88699	2401.552	2402.439	---	PASS
		2441	0.89270	2440.549	2441.441	---	PASS
		2480	0.88199	2479.555	2480.437	---	PASS
2DH5	Ant1	2402	1.2025	2401.395	2402.597	---	PASS
		2441	1.1959	2440.397	2441.593	---	PASS
		2480	1.1803	2479.403	2480.584	---	PASS
3DH5	Ant1	2402	1.2063	2401.384	2402.591	---	PASS
		2441	1.2023	2440.388	2441.590	---	PASS
		2480	1.1964	2479.392	2480.588	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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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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3DH5_Ant1_2480



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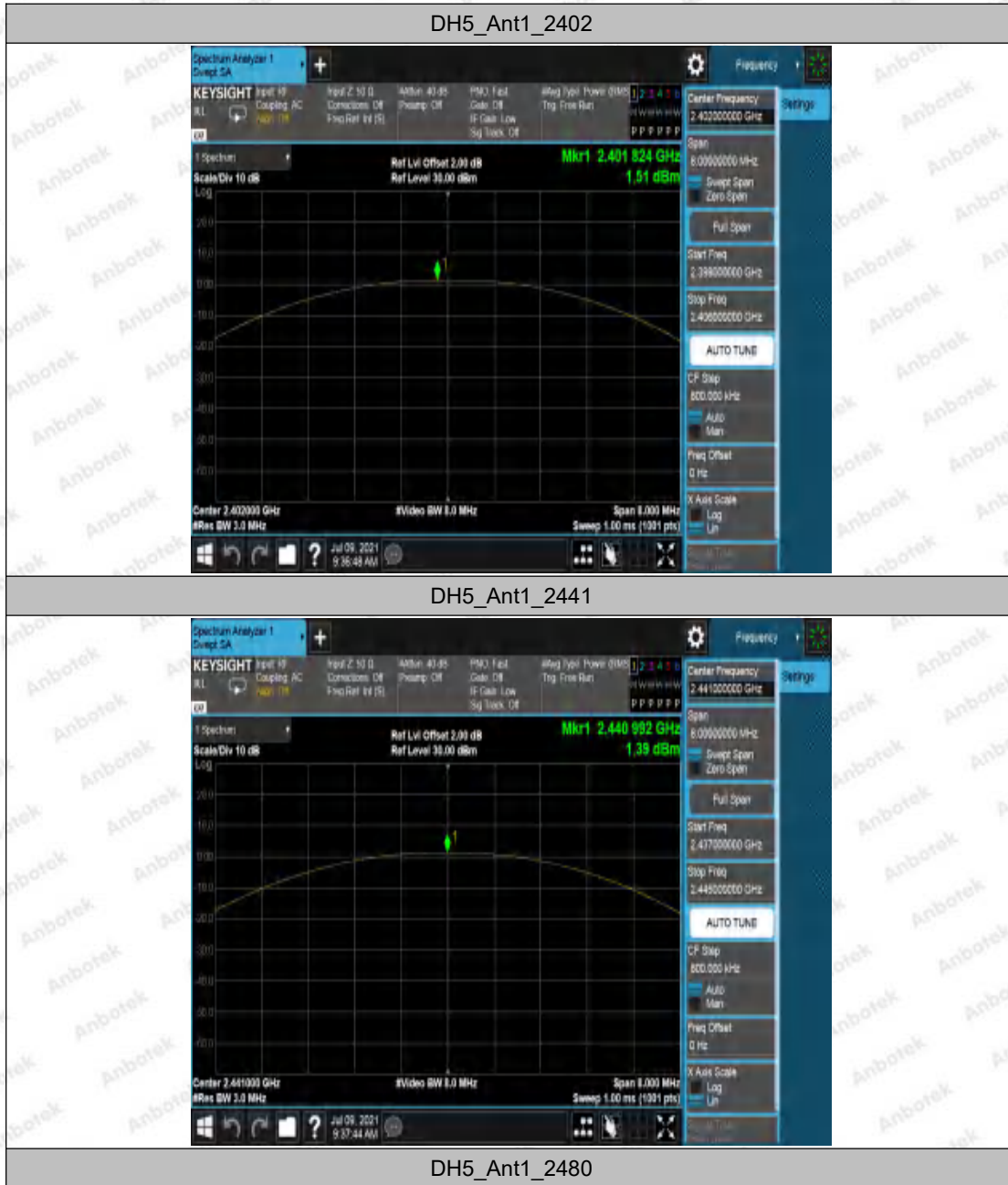
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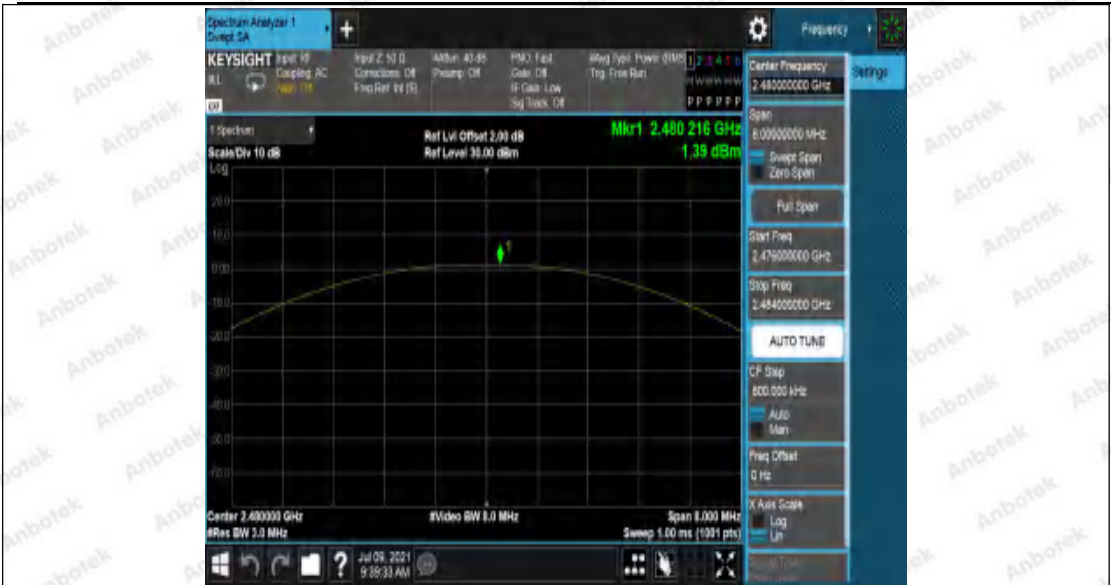
Appendix C: Maximum conducted output power

Test Result

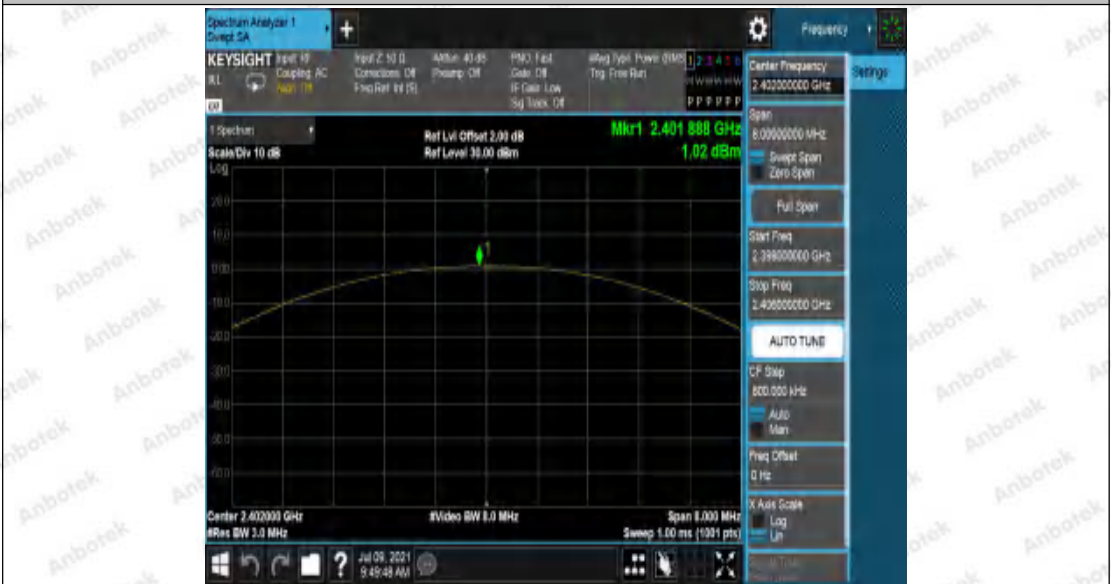
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.51	<=30	PASS
		2441	1.39	<=30	PASS
		2480	1.39	<=30	PASS
2DH5	Ant1	2402	1.02	<=20.97	PASS
		2441	0.88	<=20.97	PASS
		2480	0.61	<=20.97	PASS
3DH5	Ant1	2402	1.21	<=20.97	PASS
		2441	1.03	<=20.97	PASS
		2480	0.78	<=20.97	PASS

Test Graphs

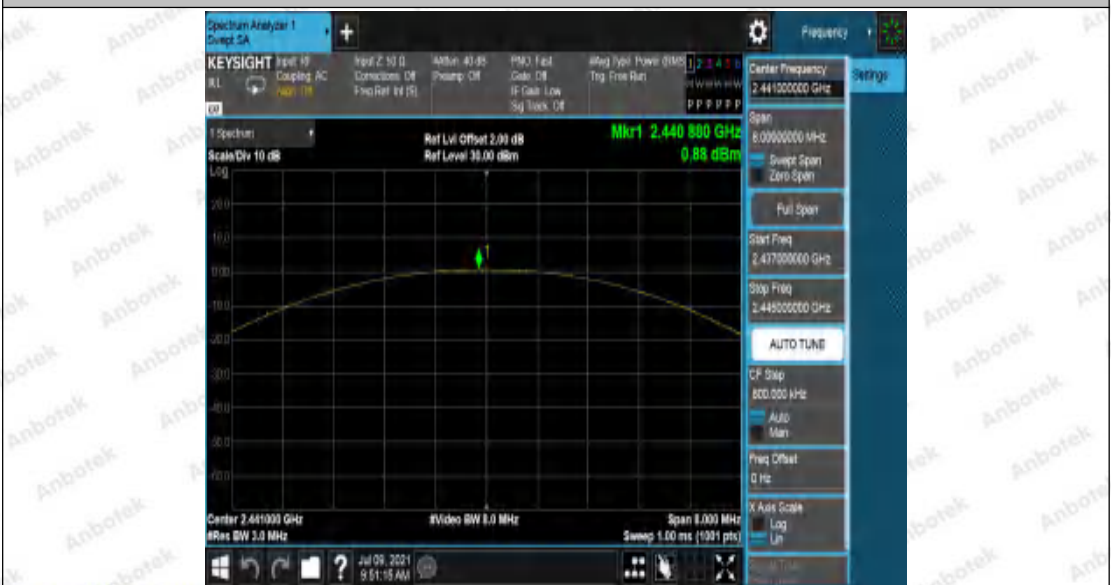




2DH5_Ant1_2402



2DH5_Ant1_2441



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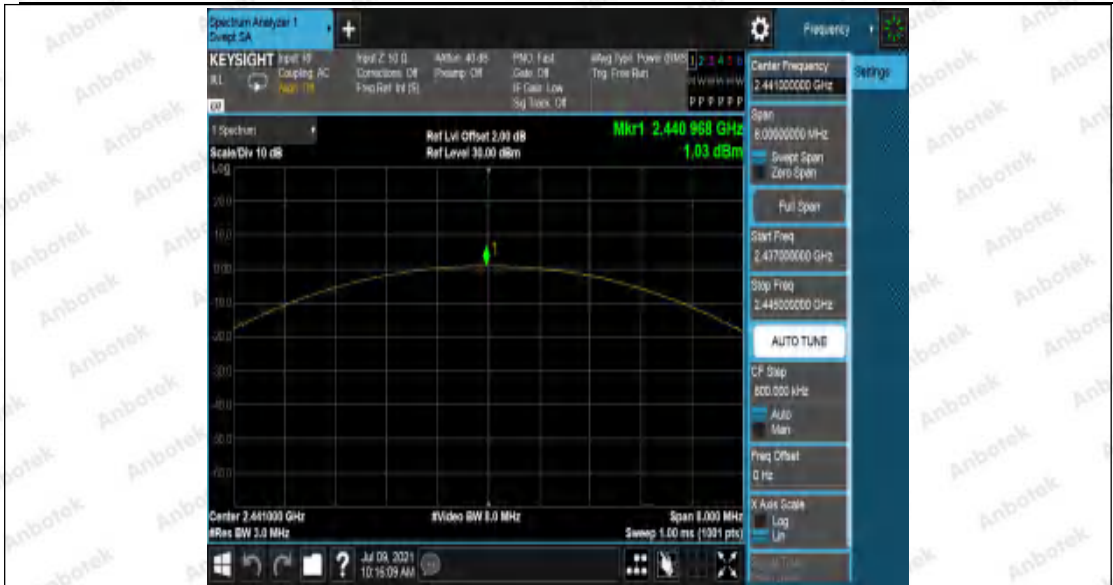


3DH5_Ant1_2441

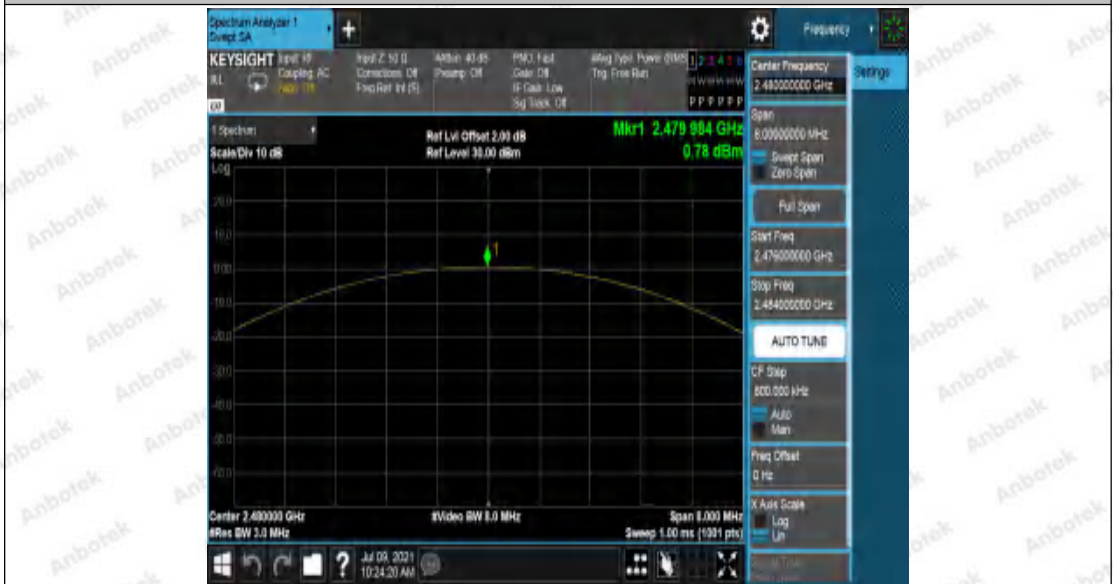
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.224	>=0.951	PASS
2DH5	Ant1	Hop	1.002	>=0.882	PASS
3DH5	Ant1	Hop	0.992	>=0.856	PASS

Test Graphs





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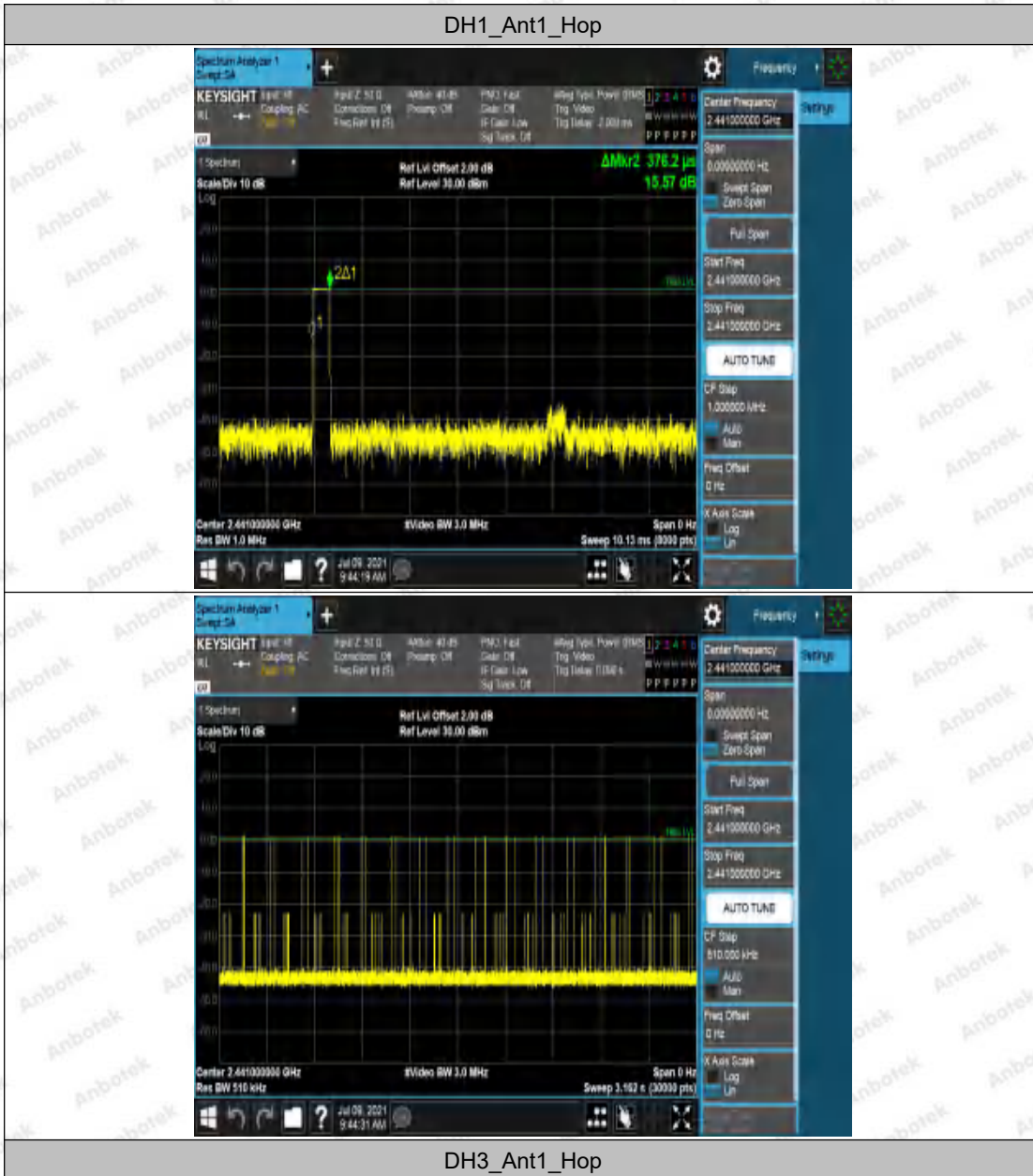
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Appendix E: Time of occupancy

Test Result

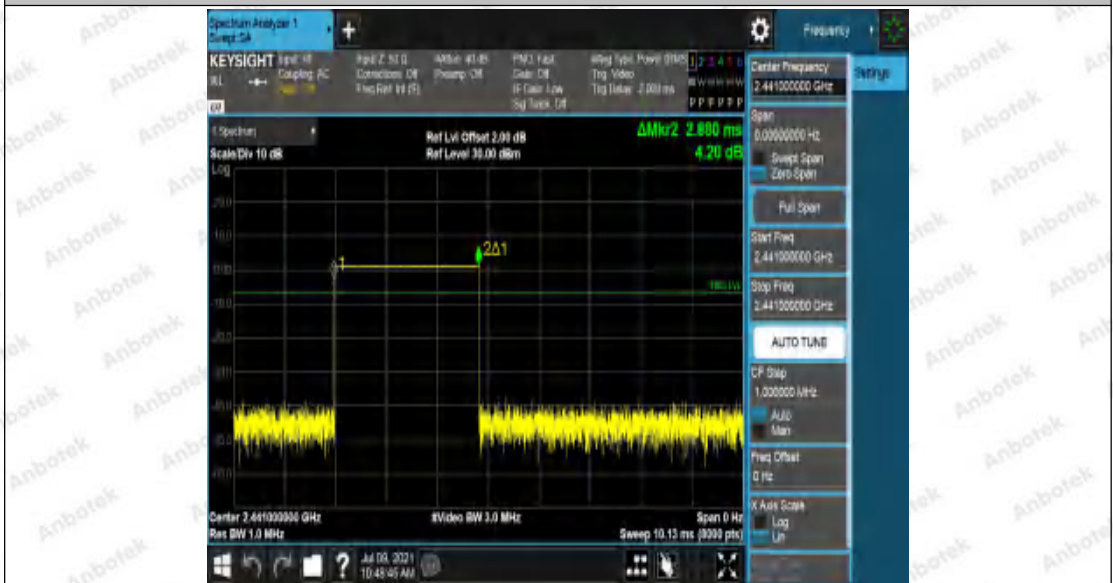
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.124	<=0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	<=0.4	PASS
DH5	Ant1	Hop	2.88	60	0.173	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.127	<=0.4	PASS
2DH3	Ant1	Hop	1.64	150	0.245	<=0.4	PASS
2DH5	Ant1	Hop	2.88	60	0.173	<=0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.123	<=0.4	PASS
3DH3	Ant1	Hop	1.64	150	0.245	<=0.4	PASS
3DH5	Ant1	Hop	2.89	130	0.375	<=0.4	PASS

Test Graphs



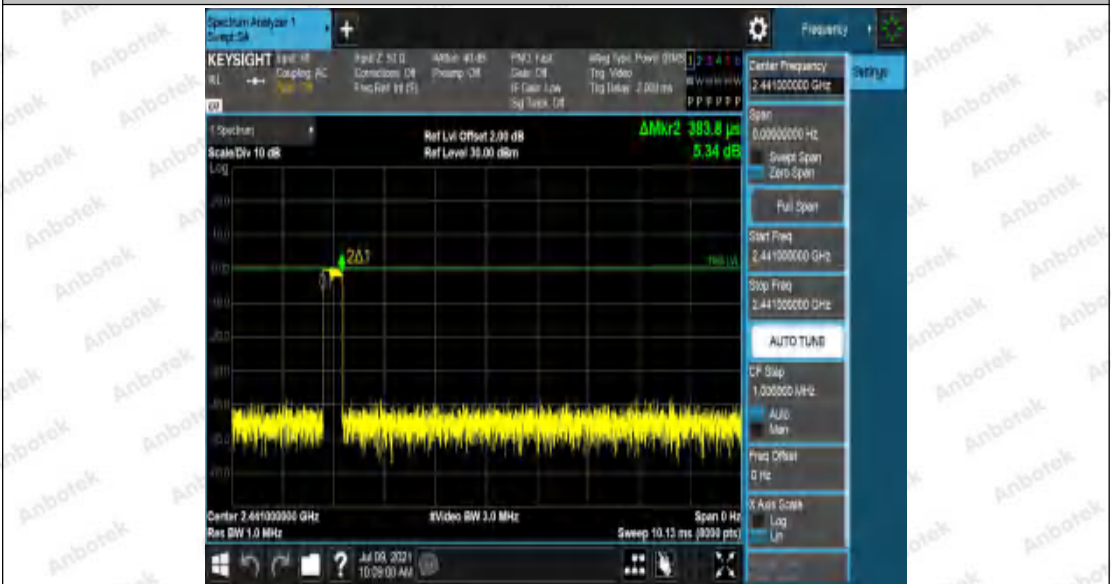


DH5_Ant1_Hop





2DH1_Ant1_Hop



2DH3_Ant1_Hop



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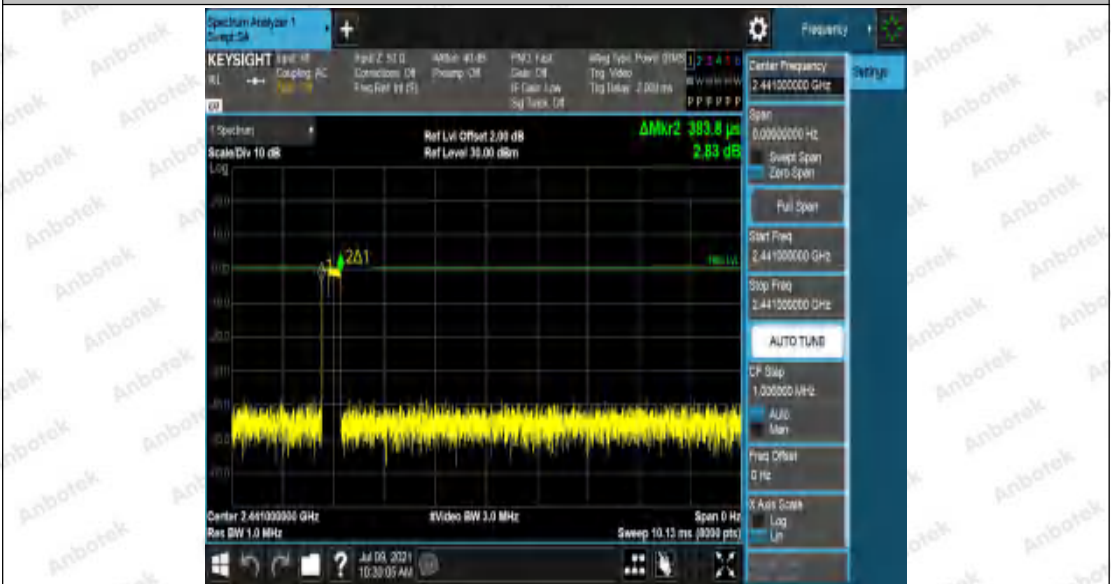


2DH5_Ant1_Hop





3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH3_Ant1_Hop

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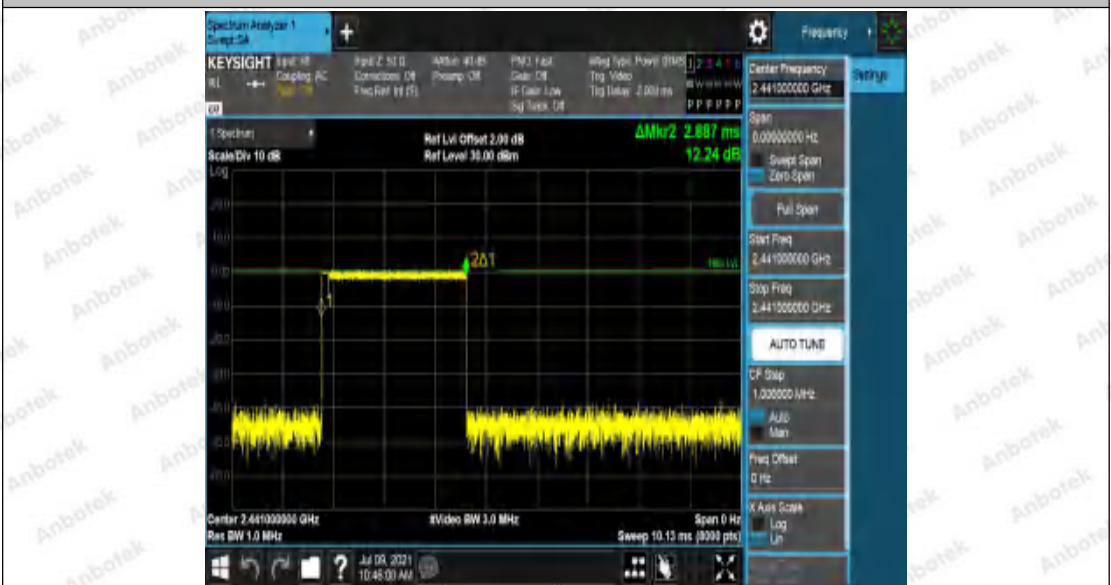
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3DH5_Ant1_Hop



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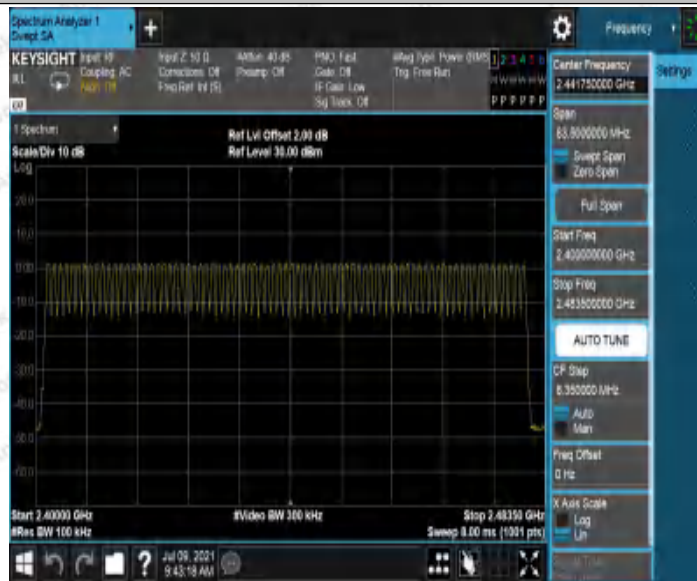
Appendix F: Number of hopping channels

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

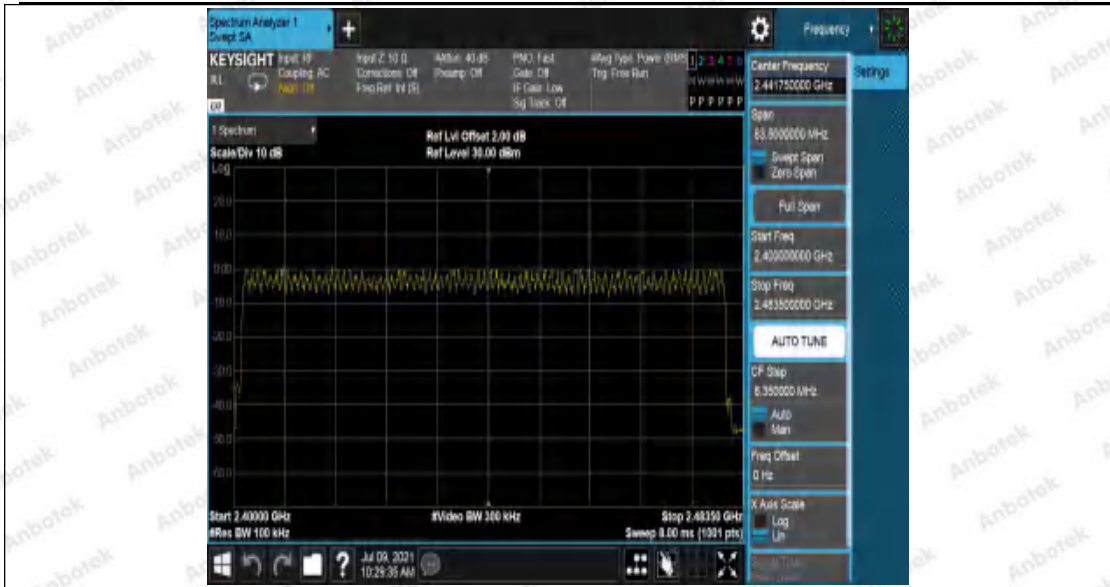
DH5_Ant1_Hop



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	1.16	-43.02	<=-18.84	PASS
		High	2480	1.37	-56.39	<=-18.63	PASS
		Low	Hop	0.48	-56.3	<=-19.52	PASS
		High	Hop	-0.66	-57.37	<=-20.66	PASS
2DH5	Ant1	Low	2402	0.28	-54.34	<=-19.72	PASS
		High	2480	-0.34	-56.41	<=-20.34	PASS
		Low	Hop	-0.64	-55.56	<=-20.64	PASS
		High	Hop	-4.21	-58.92	<=-24.21	PASS
3DH5	Ant1	Low	2402	0.20	-53.96	<=-19.8	PASS
		High	2480	-0.38	-56.55	<=-20.38	PASS
		Low	Hop	-3.38	-55.86	<=-23.38	PASS
		High	Hop	-2.28	-57.24	<=-22.28	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480

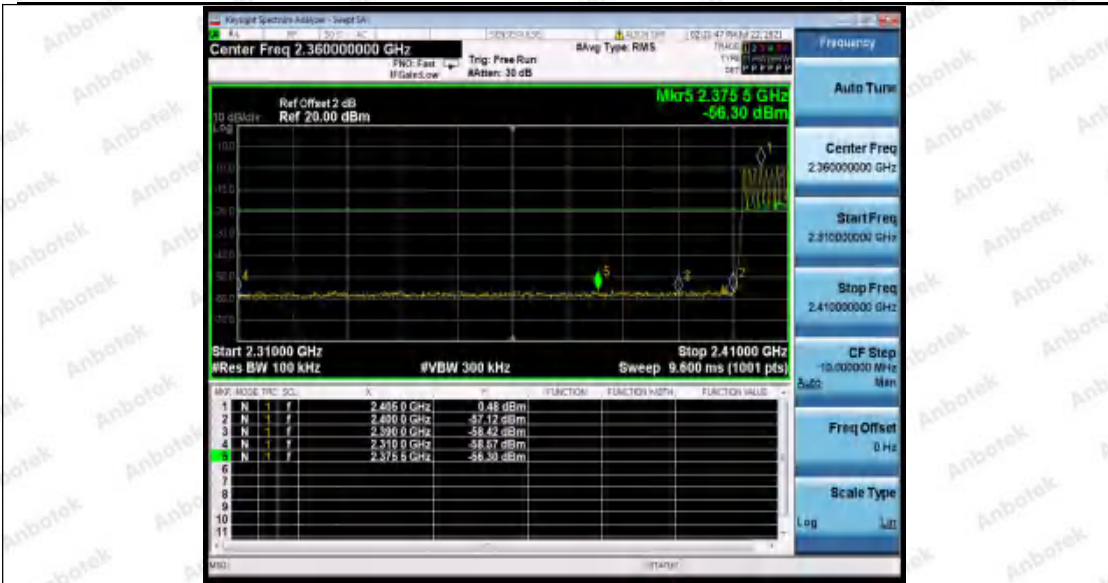


DH5_Ant1_Low_Hop

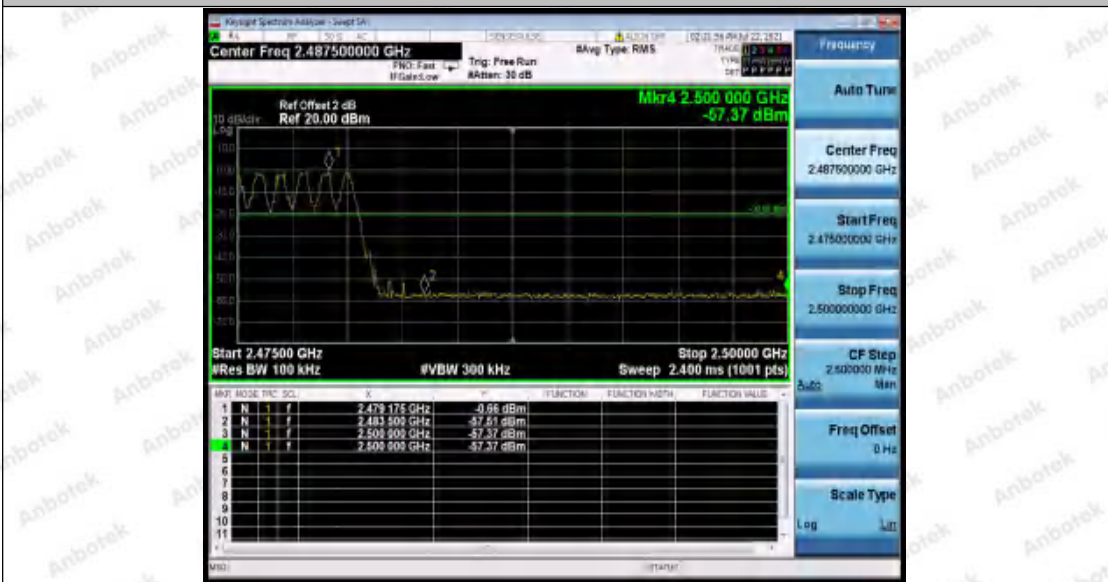
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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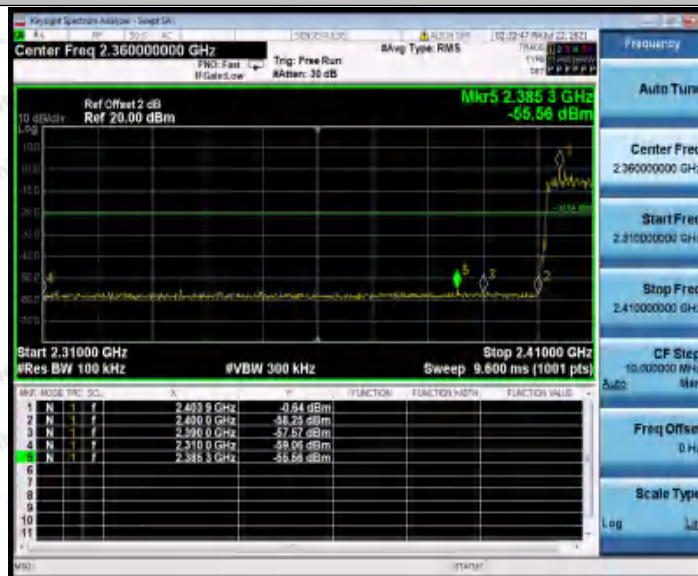
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

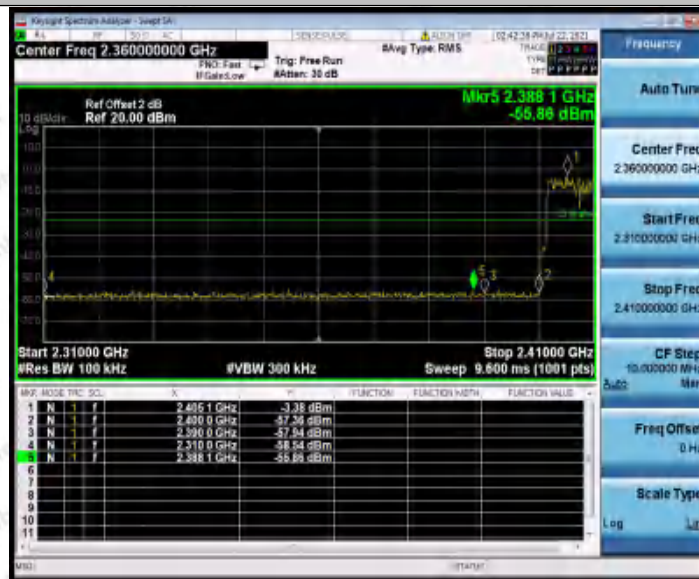


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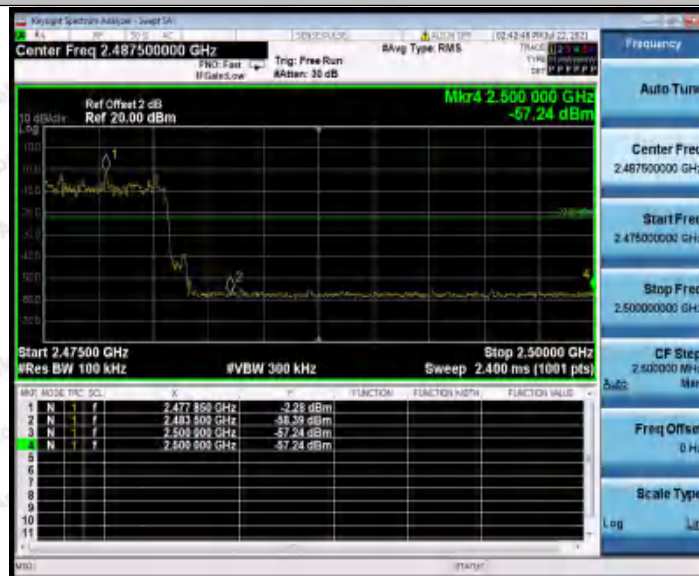
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3DH5_Ant1_Low_Hop



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	1.25	1.25	---	PASS
			30~1000	1.25	-68.06	<=-18.75	PASS
			1000~26500	1.25	-41.81	<=-18.75	PASS
		2441	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-68.63	<=-17.78	PASS
			1000~26500	2.22	-47.3	<=-17.78	PASS
		2480	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-68.63	<=-18.97	PASS
			1000~26500	1.03	-52.74	<=-18.97	PASS
2DH5	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-66.34	<=-19.75	PASS
			1000~26500	0.25	-48.97	<=-19.75	PASS
		2441	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-67.33	<=-21.36	PASS
			1000~26500	-1.36	-45.77	<=-21.36	PASS
		2480	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-68.64	<=-20.44	PASS
			1000~26500	-0.44	-50.51	<=-20.44	PASS
3DH5	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-67.65	<=-19.75	PASS
			1000~26500	0.25	-45.23	<=-19.75	PASS
		2441	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-67.84	<=-21.12	PASS
			1000~26500	-1.12	-49.17	<=-21.12	PASS
		2480	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.19	<=-20.41	PASS
			1000~26500	-0.41	-53.83	<=-20.41	PASS

Test Graphs



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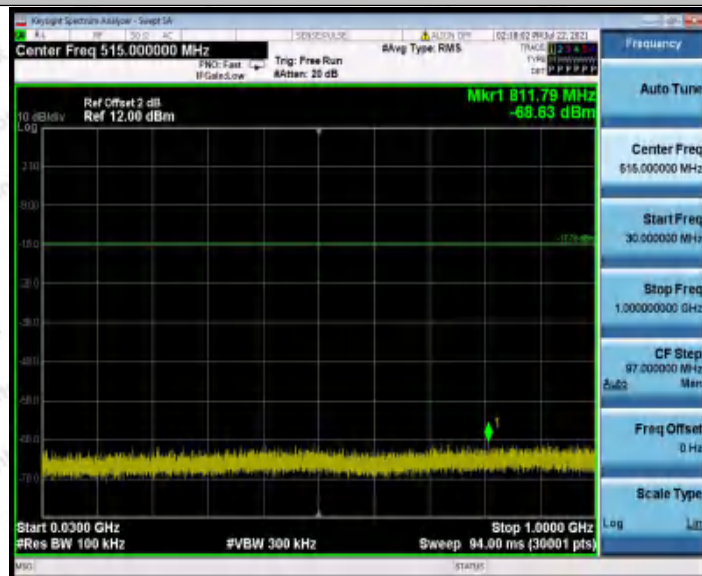
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



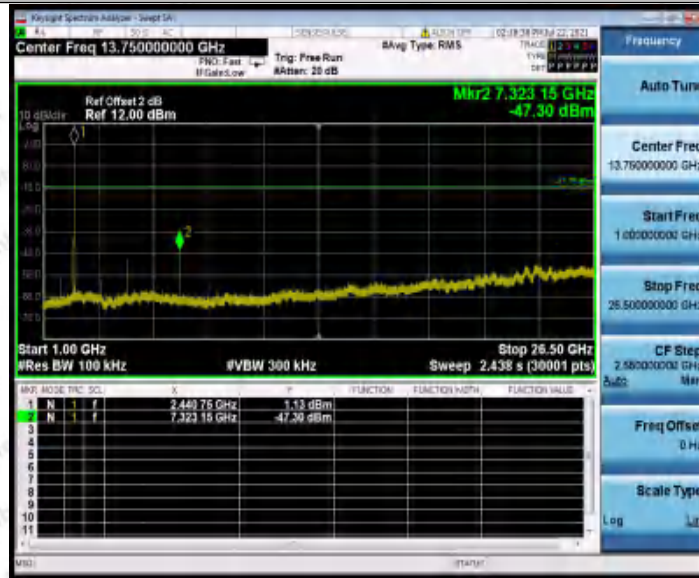
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



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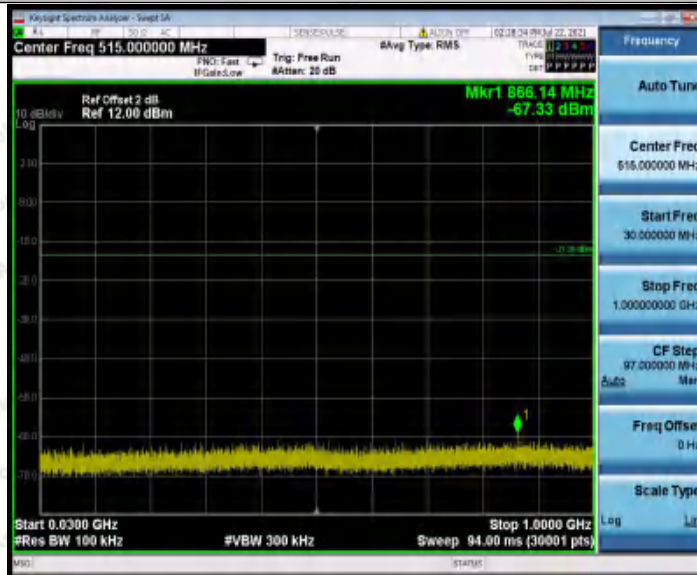
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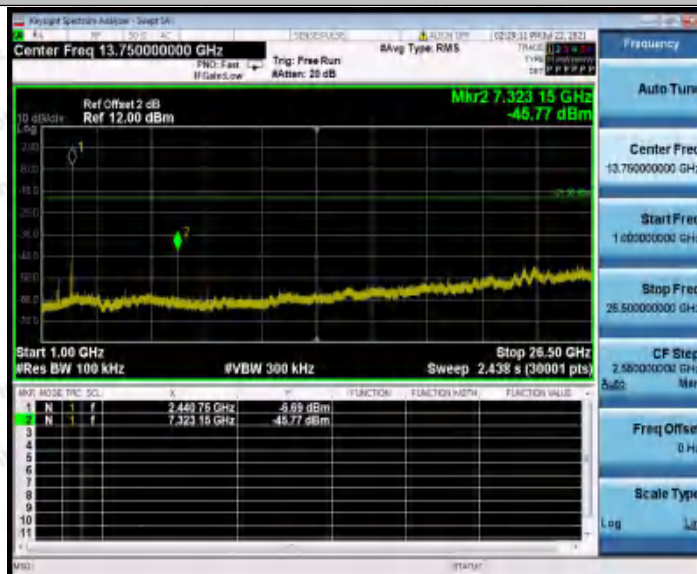




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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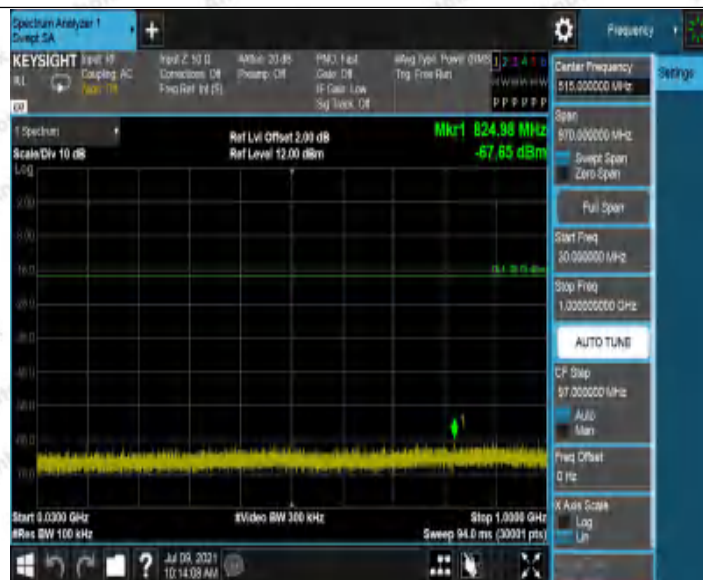
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3DH5_Ant1_2402_0~Reference



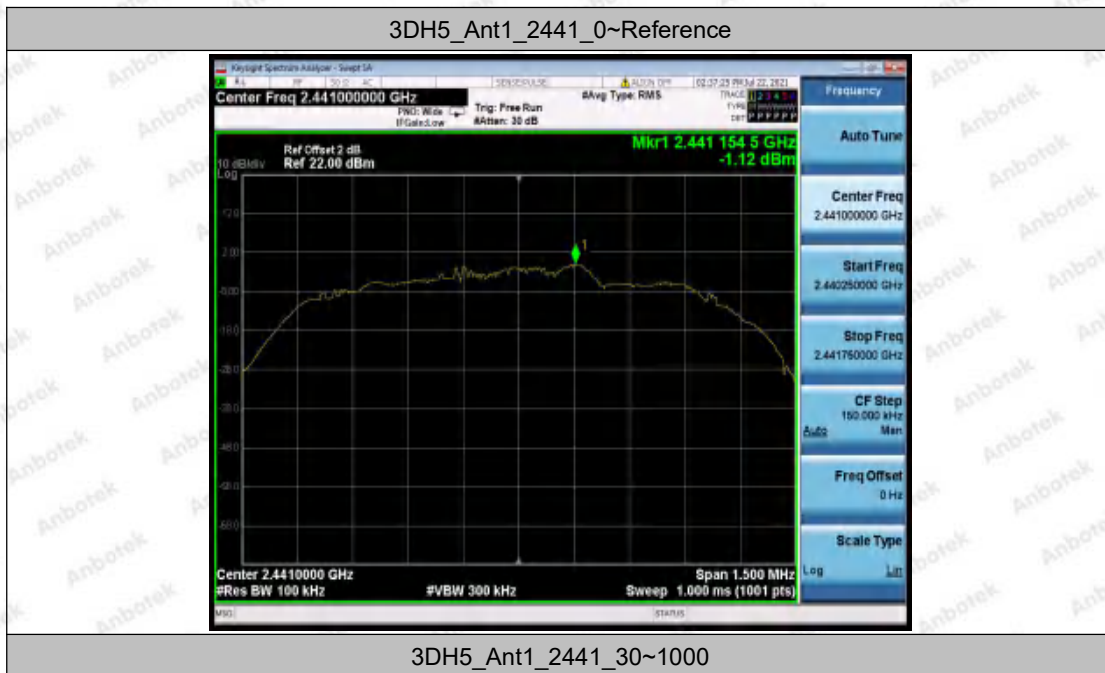
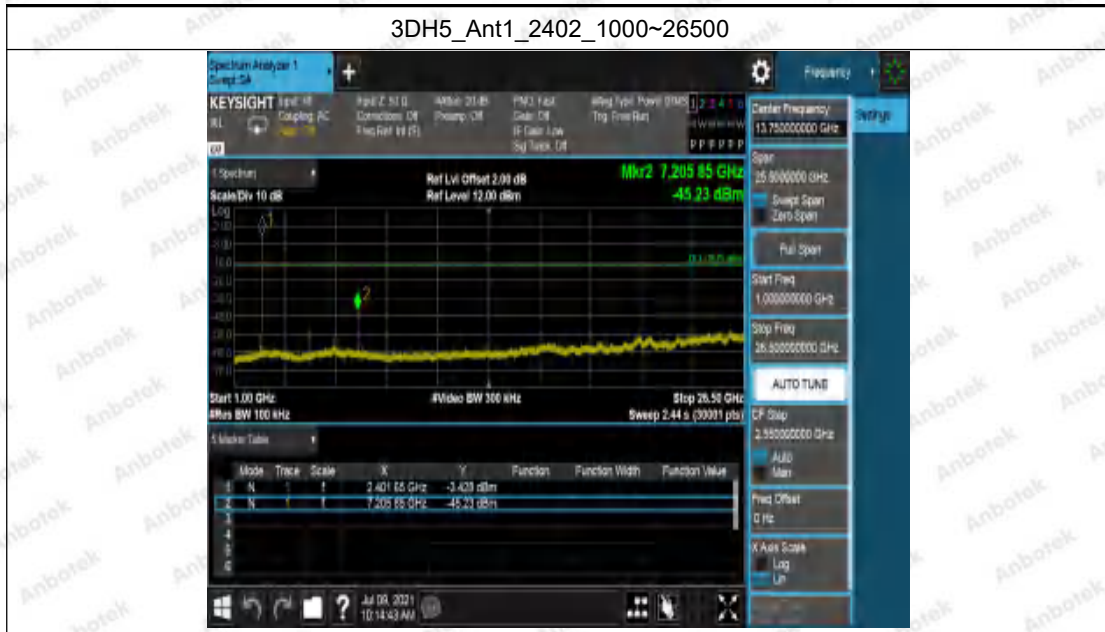
3DH5_Ant1_2402_30~1000



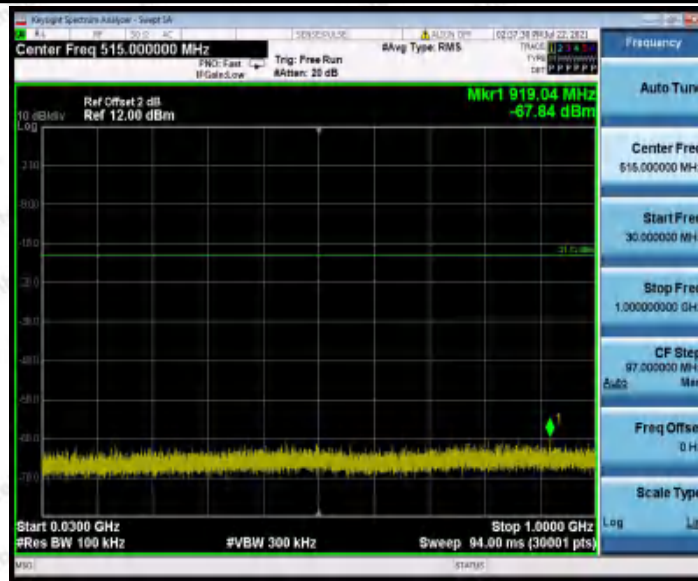
Shenzhen Anbotek Compliance Laboratory Limited

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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

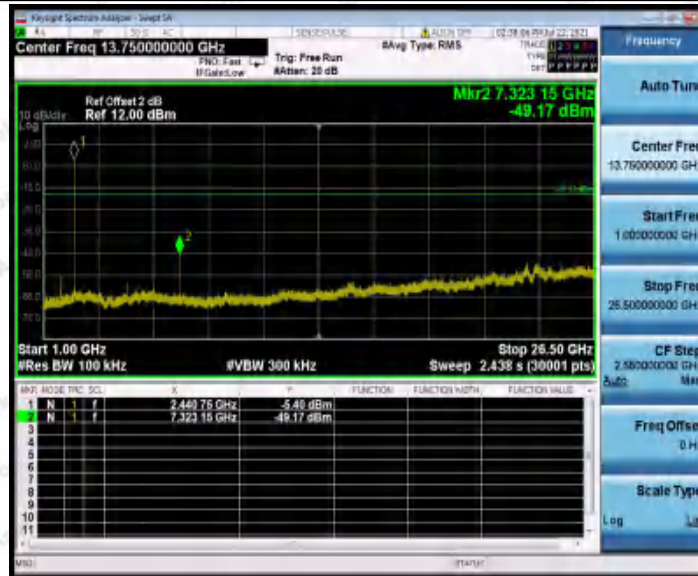
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

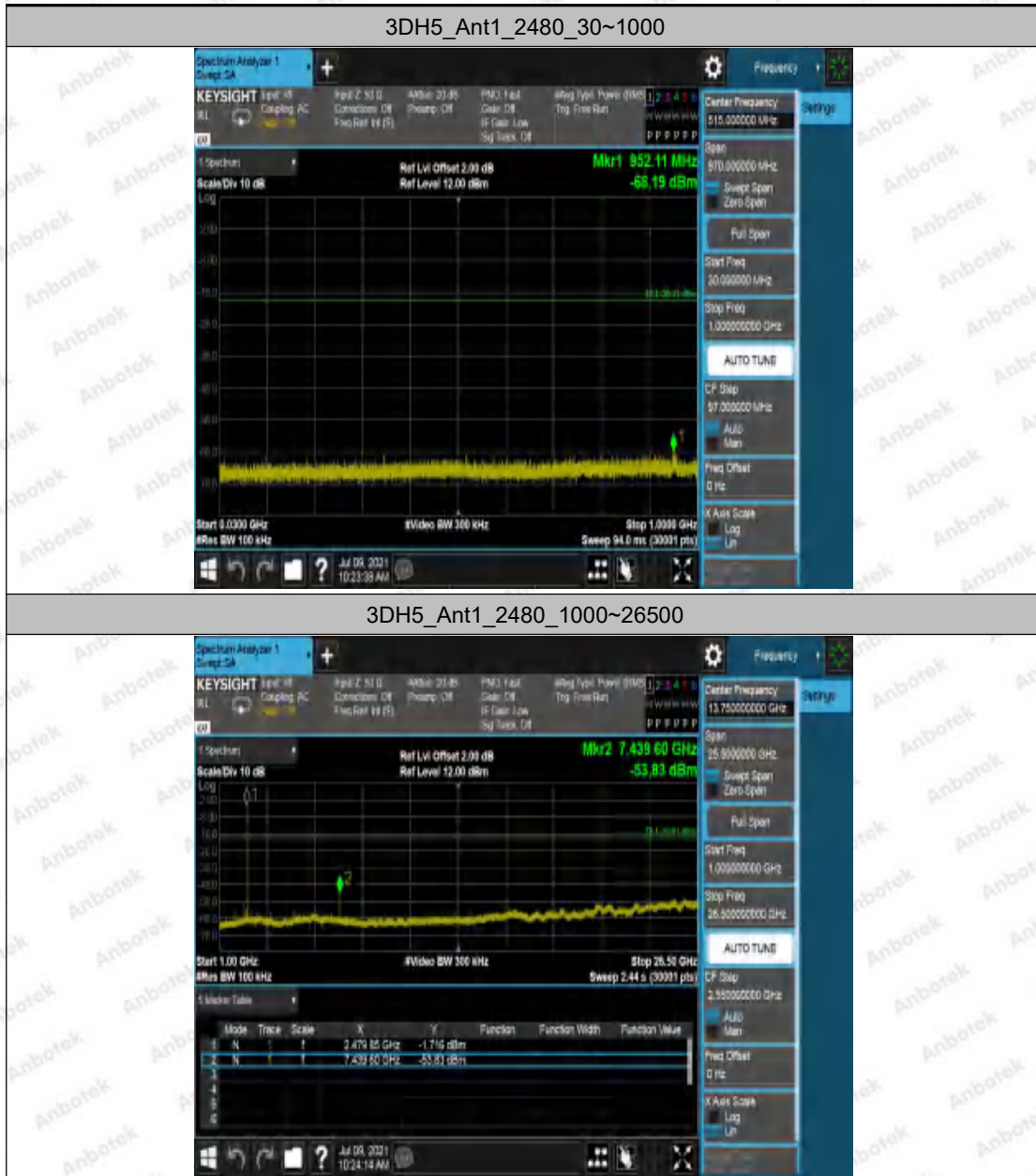


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Appendix I: Duty Cycle

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
		2441	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2480	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
		2441	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2480	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
		2441	2.89	3.75	0.7707	77.07	1.13	---	PASS
		2480	2.89	3.75	0.7707	77.07	1.13	---	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



---End---