

Appendix Test Data

Project No.:	18220WC10172101	Test Date:	2021.7.30
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	54 %
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	0.894	2401.538	2402.432	---	PASS
		2441	0.939	2440.538	2441.477	---	PASS
		2480	0.939	2479.538	2480.477	---	PASS
2DH5	Ant1	2402	1.287	2401.343	2402.630	---	PASS
		2441	1.248	2440.367	2441.615	---	PASS
		2480	1.257	2479.367	2480.624	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_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	0.85329	2401.565	2402.418	---	PASS
		2441	0.85643	2440.562	2441.418	---	PASS
		2480	0.85123	2479.568	2480.419	---	PASS
2DH5	Ant1	2402	1.1968	2401.398	2402.594	---	PASS
		2441	1.1714	2440.408	2441.579	---	PASS
		2480	1.1892	2479.402	2480.591	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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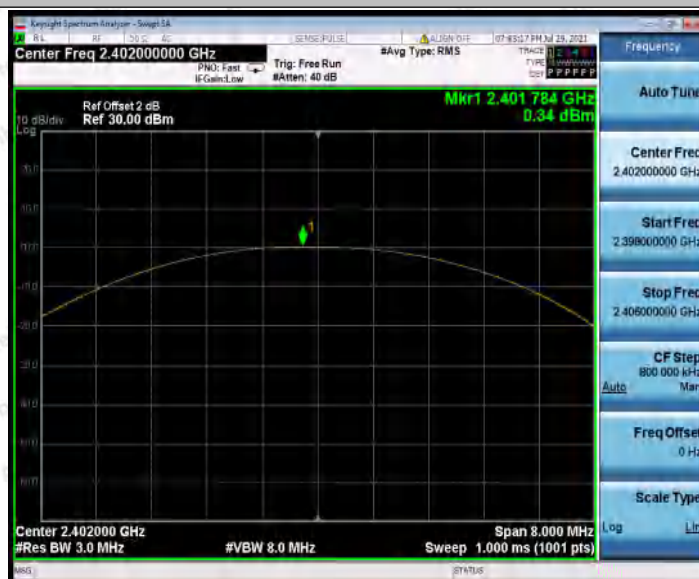
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.34	<=20.97	PASS
		2441	0	<=20.97	PASS
		2480	-1.49	<=20.97	PASS
2DH5	Ant1	2402	1.31	<=20.97	PASS
		2441	0.95	<=20.97	PASS
		2480	-0.62	<=20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



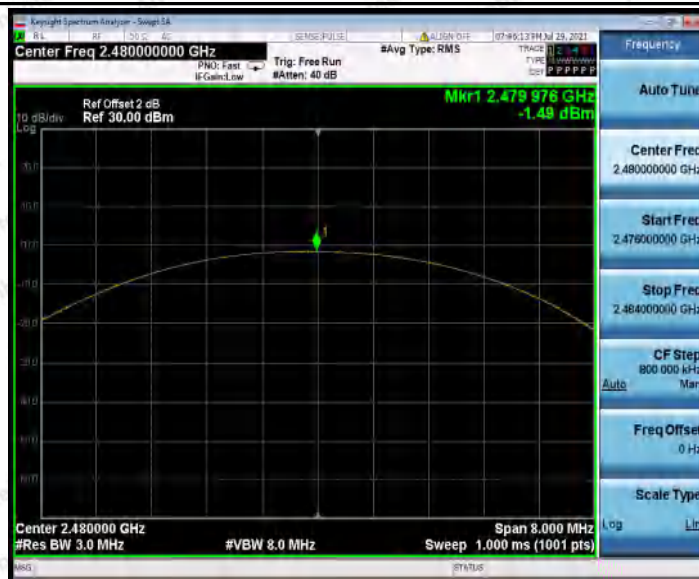
DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

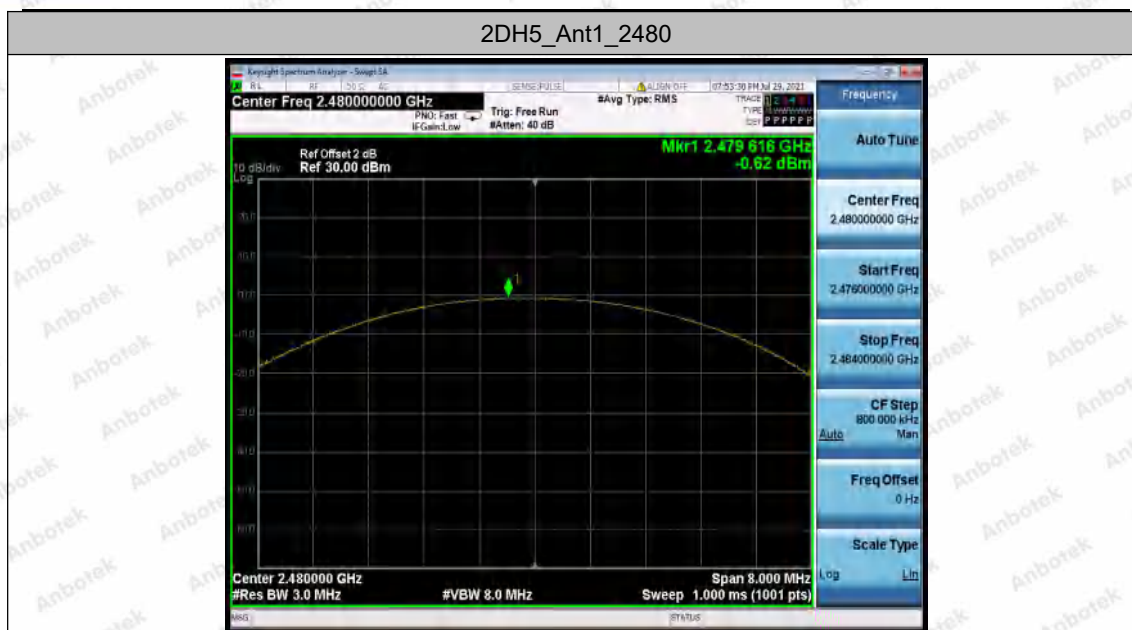


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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	ResultMHz]	LimitMHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.939	PASS
2DH5	Ant1	Hop	1.134	≥ 0.858	PASS

Test Graphs

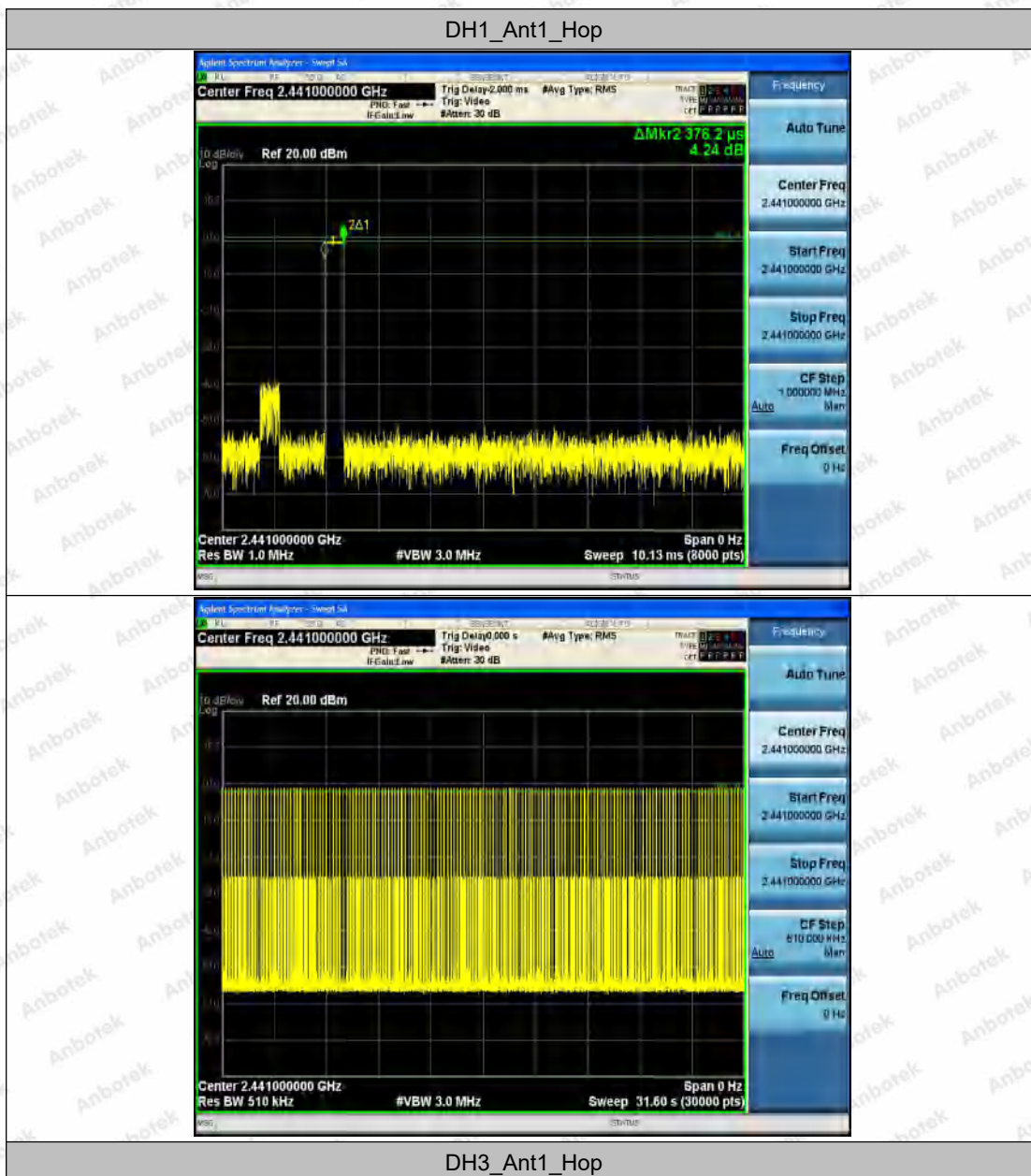


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

Test Graphs

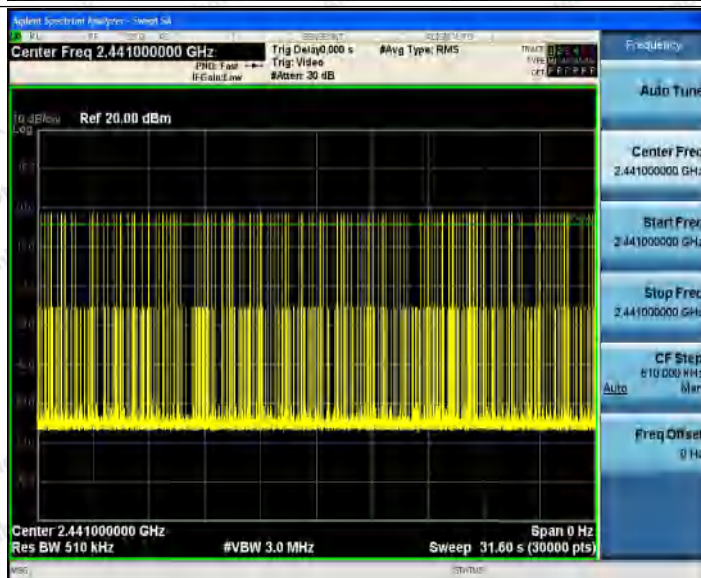
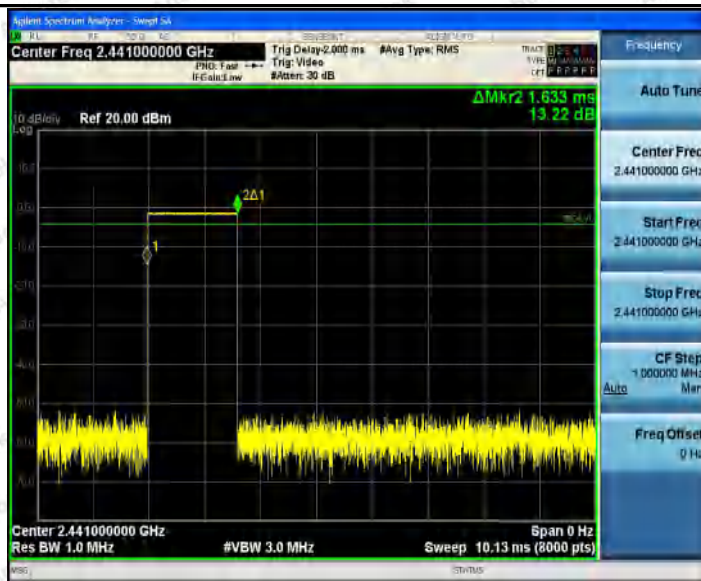


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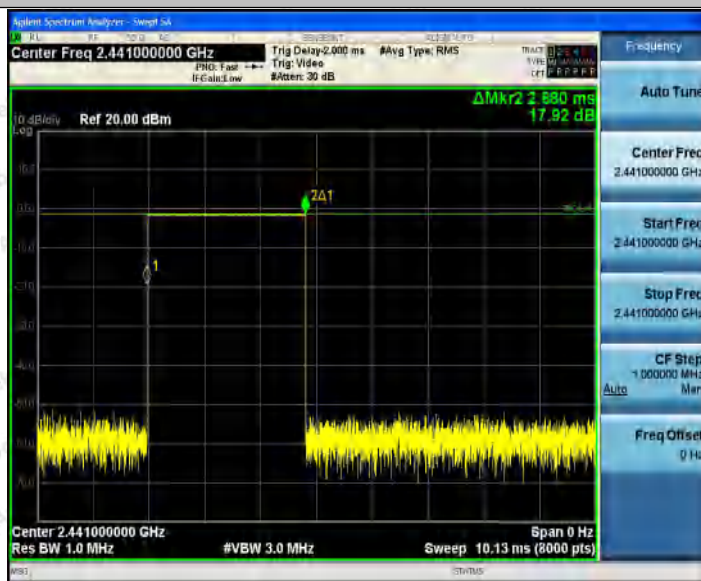
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DH5_Ant1_Hop



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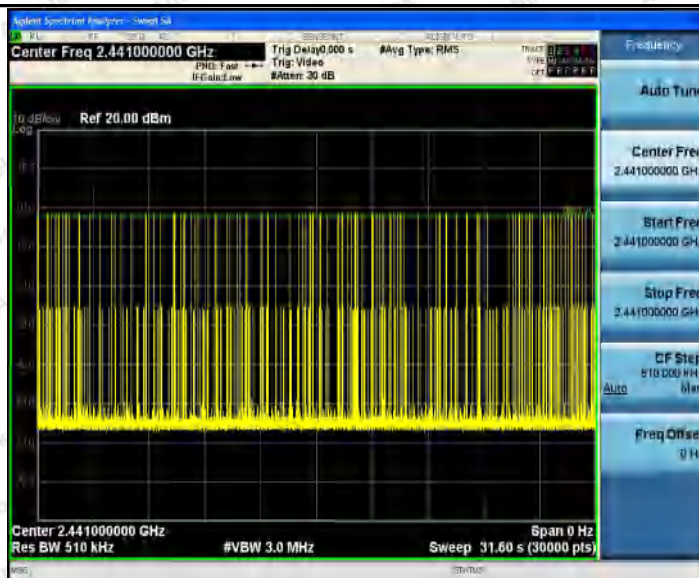
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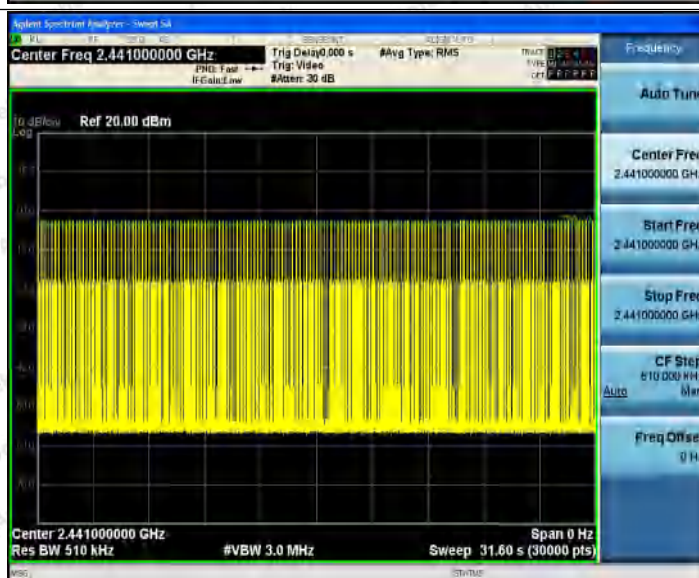
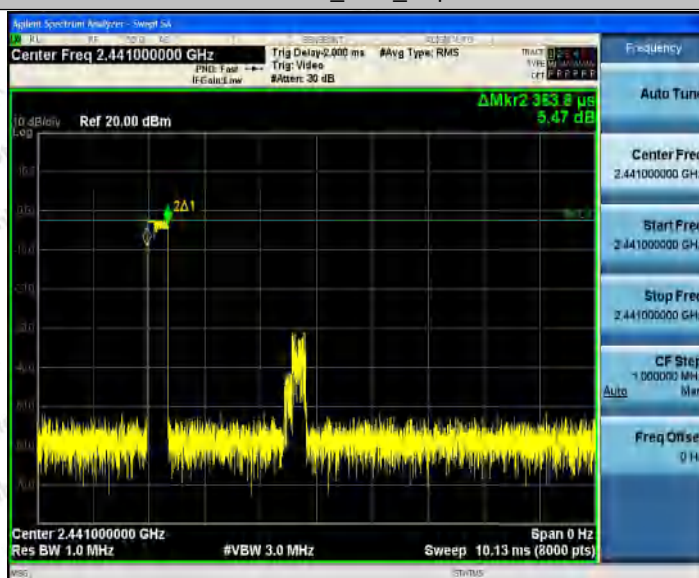
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2DH1_Ant1_Hop



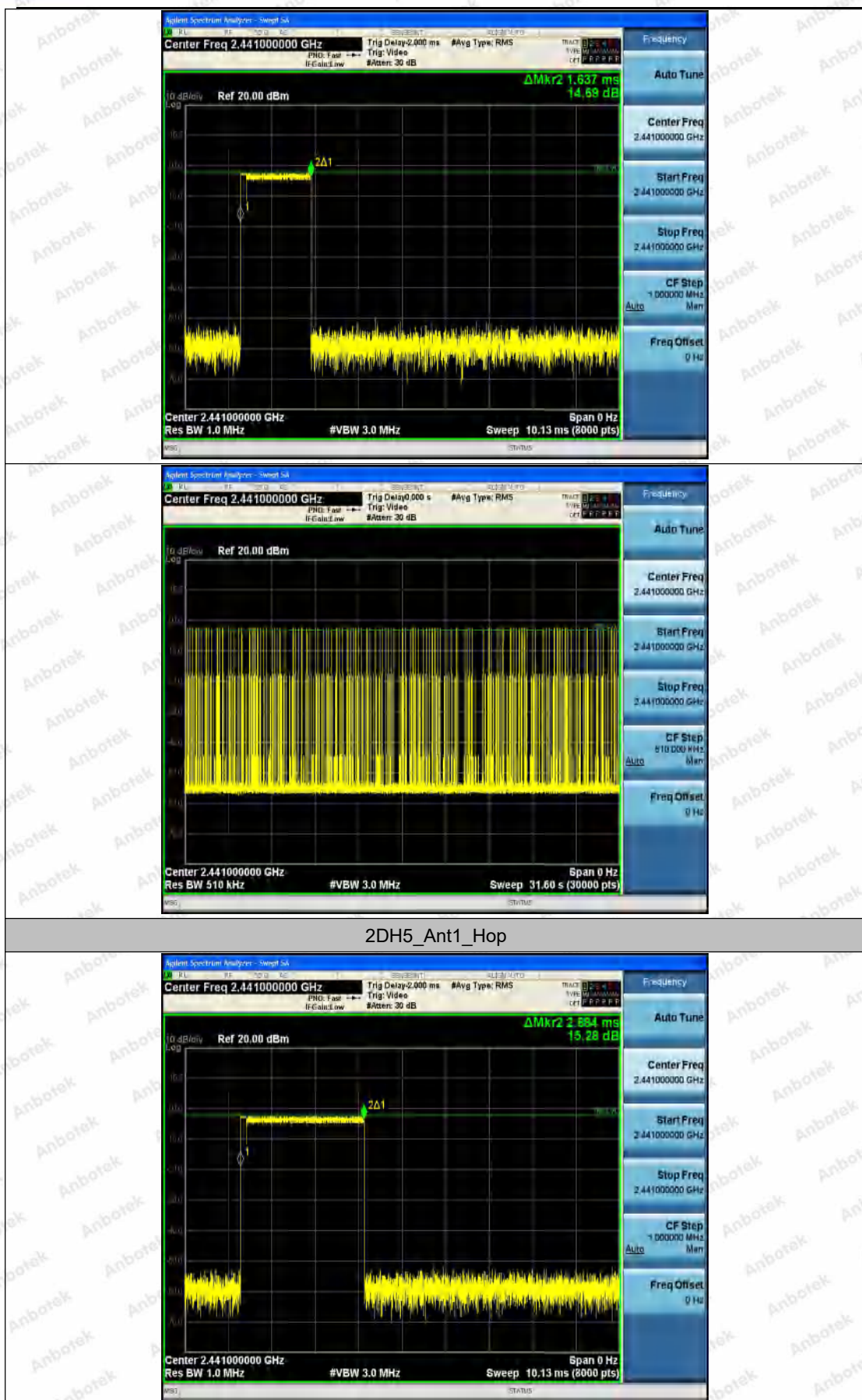
2DH3_Ant1_Hop

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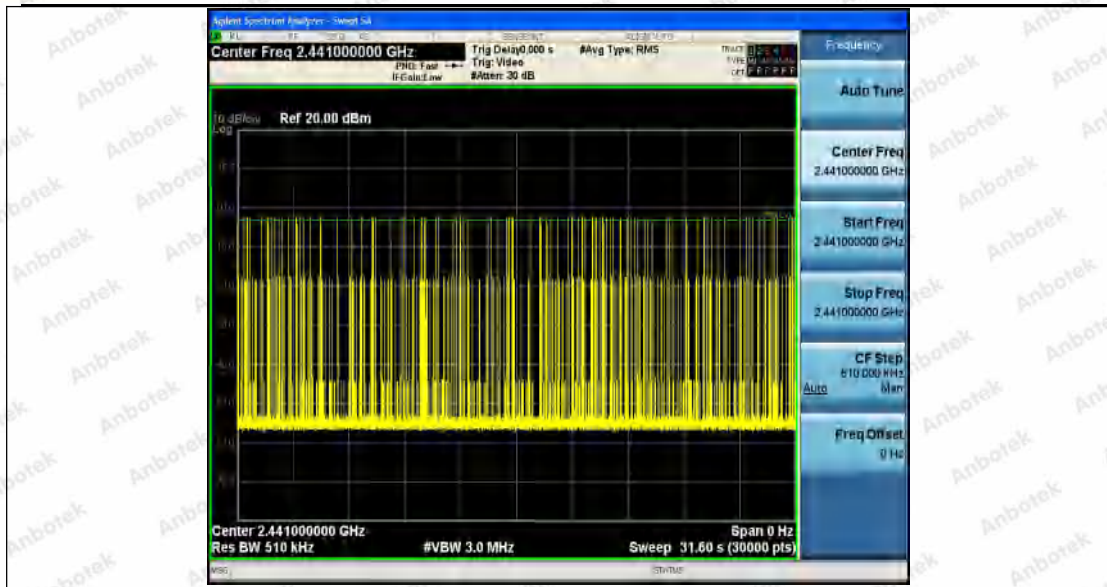


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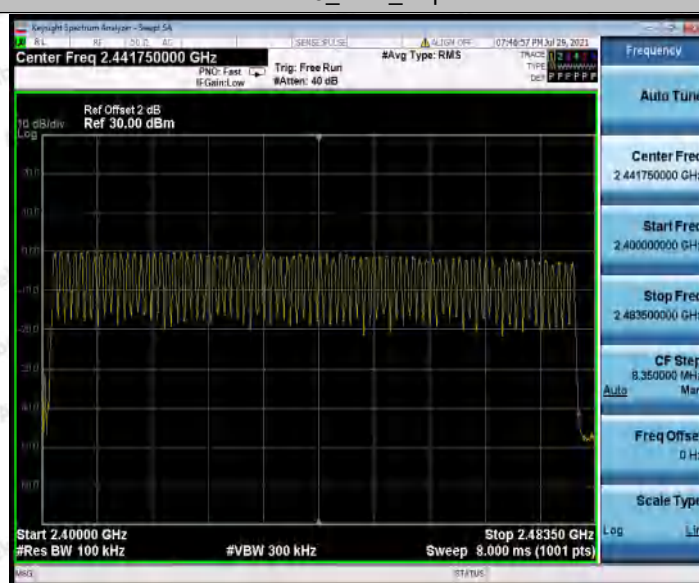
Appendix F: Number of hopping channels

Test Result

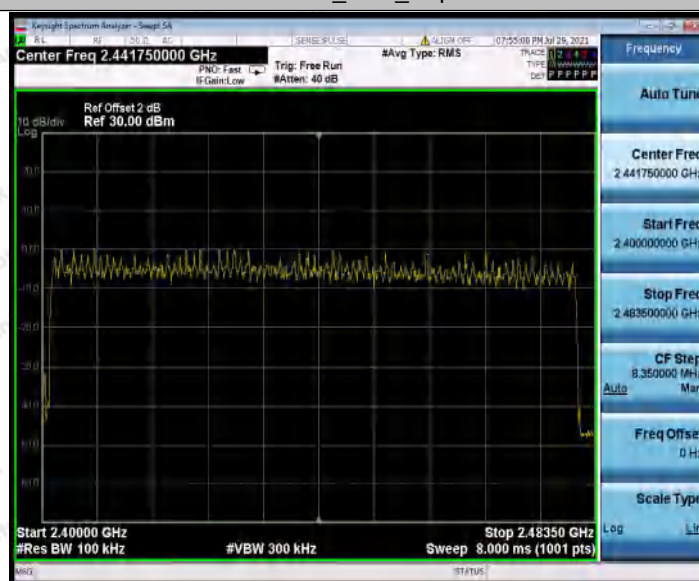
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.06	-41.46	<=-20.06	PASS
		High	2480	-1.89	-51.88	<=-21.89	PASS
		Low	Hop	0.11	-55.46	<=-19.89	PASS
		High	Hop	-2.07	-57.38	<=-22.07	PASS
2DH5	Ant1	Low	2402	-0.09	-41.89	<=-20.09	PASS
		High	2480	-1.72	-50.92	<=-21.72	PASS
		Low	Hop	-3.81	-55.43	<=-23.81	PASS
		High	Hop	-1.70	-56.01	<=-21.7	PASS

Test Graphs

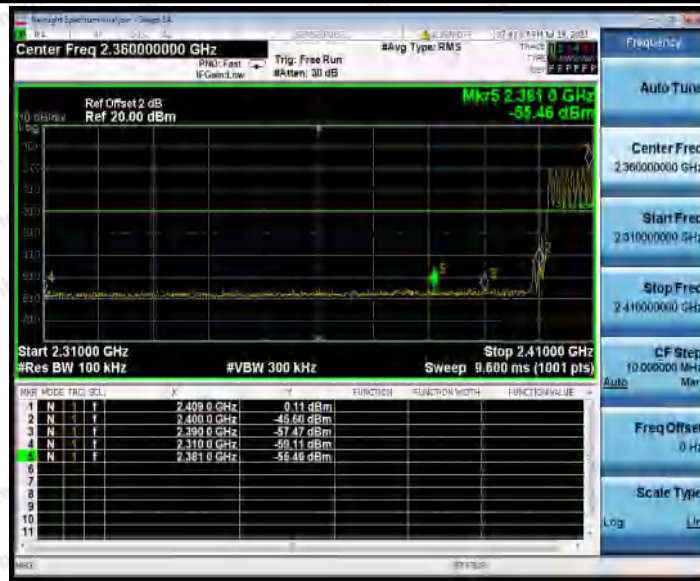
DH5_Ant1_Low_2402



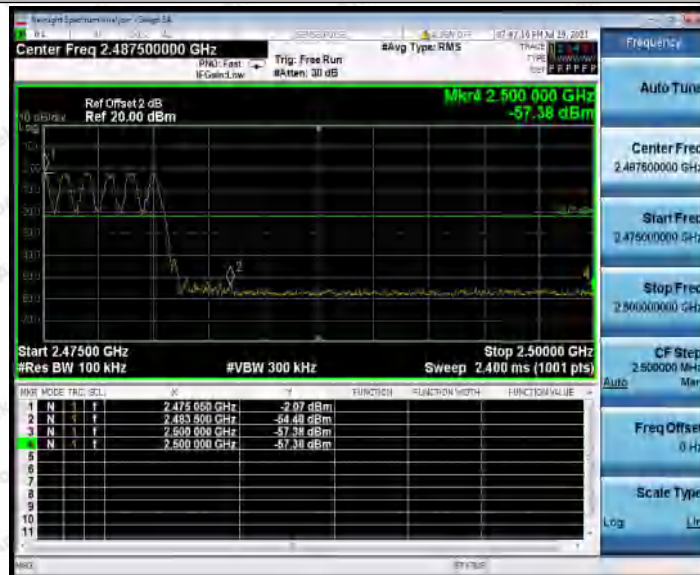
DH5_Ant1_High_2480



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



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Appendix H: Conducted Spurious Emission

Test Result

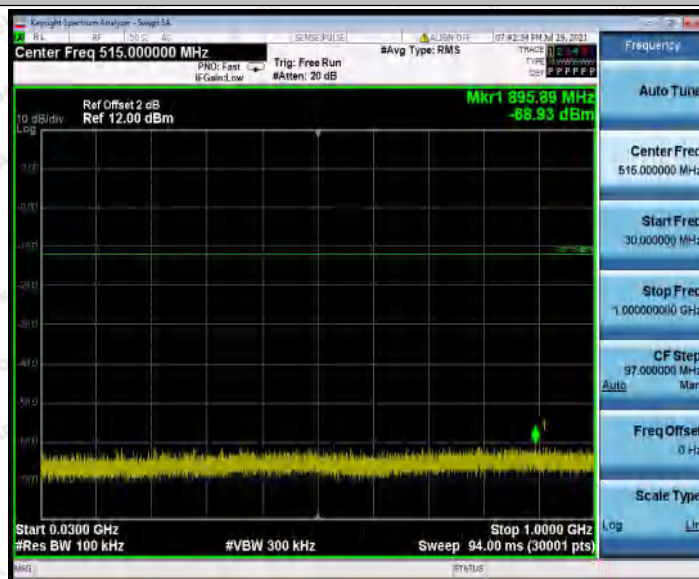
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-68.93	<=-20.15	PASS
			1000~26500	-0.15	-30.9	<=-20.15	PASS
		2441	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-67.5	<=-20.58	PASS
			1000~26500	-0.58	-30.86	<=-20.58	PASS
		2480	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-67.96	<=-22.05	PASS
			1000~26500	-2.05	-33.3	<=-22.05	PASS
2DH5	Ant1	2402	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-68.32	<=-20.04	PASS
			1000~26500	-0.04	-31.04	<=-20.04	PASS
		2441	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-68.61	<=-20.37	PASS
			1000~26500	-0.37	-30.81	<=-20.37	PASS
		2480	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-68.3	<=-22.04	PASS
			1000~26500	-2.04	-33.42	<=-22.04	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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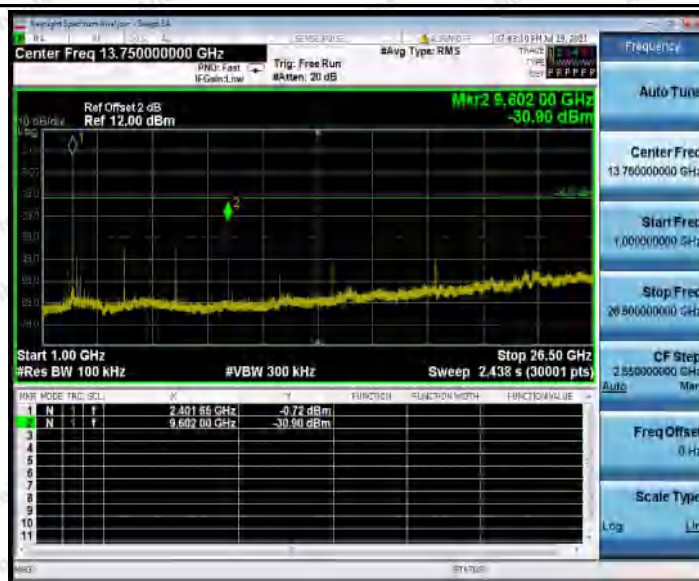
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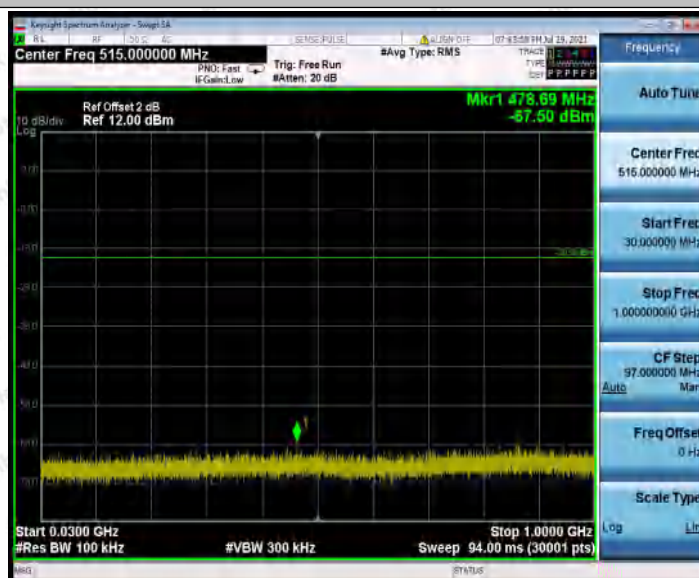
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



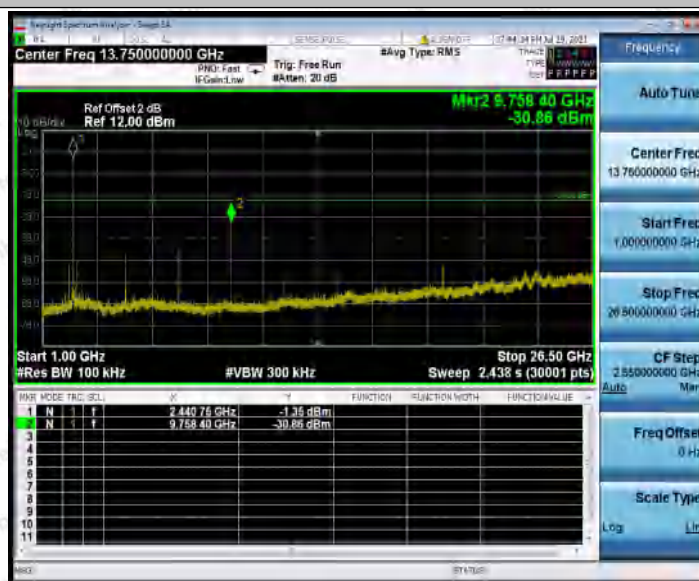
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



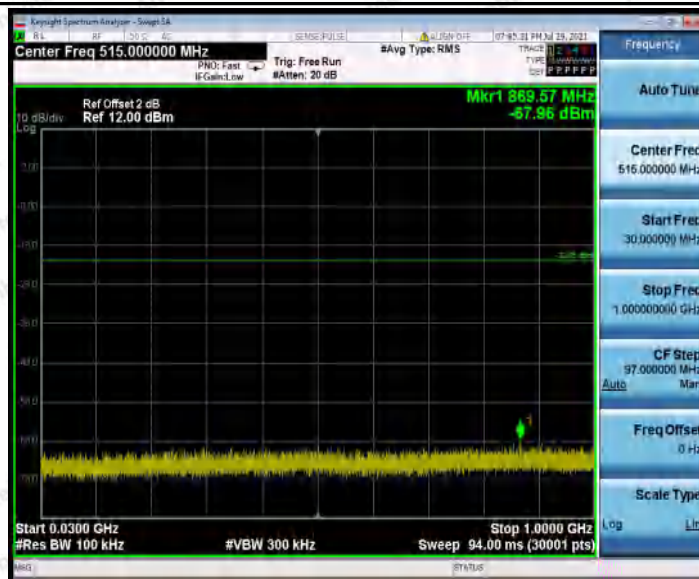
DH5_Ant1_2480_30~1000

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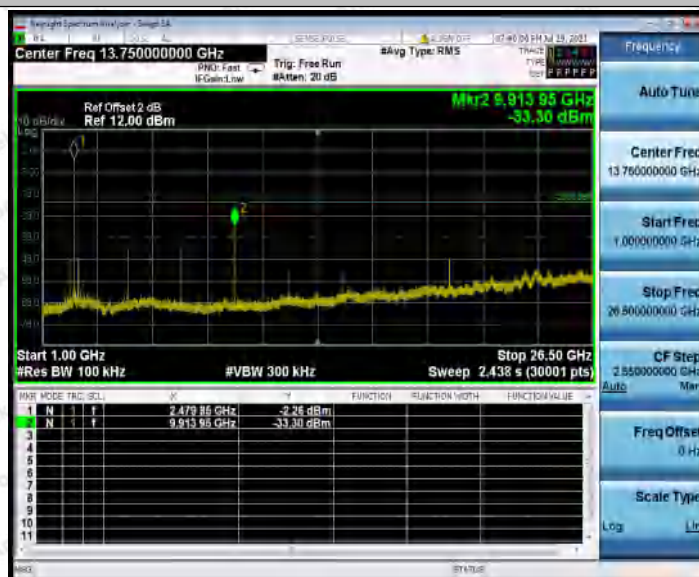
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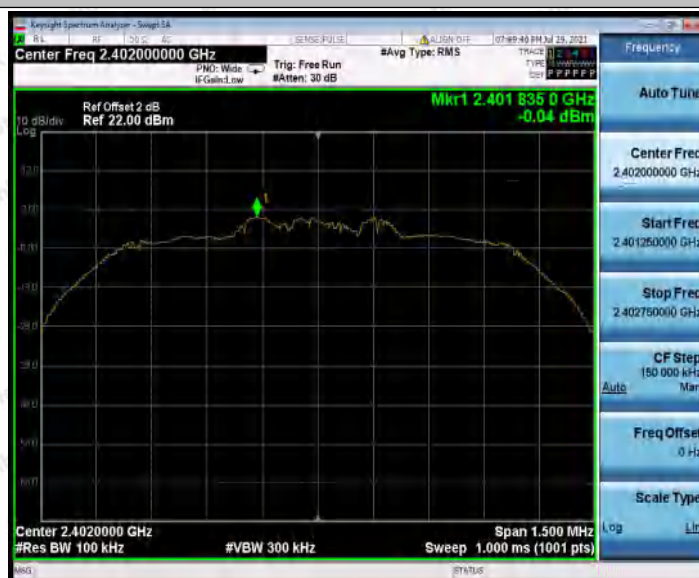
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



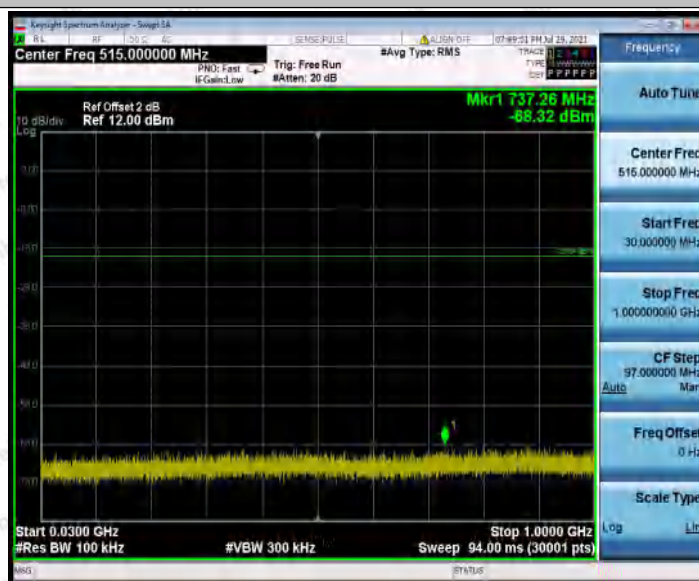
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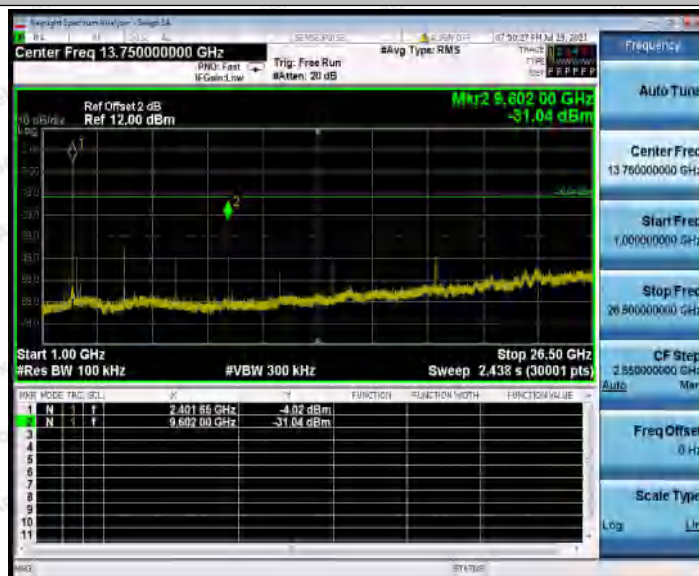
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2DH5_Ant1_2402_30~1000



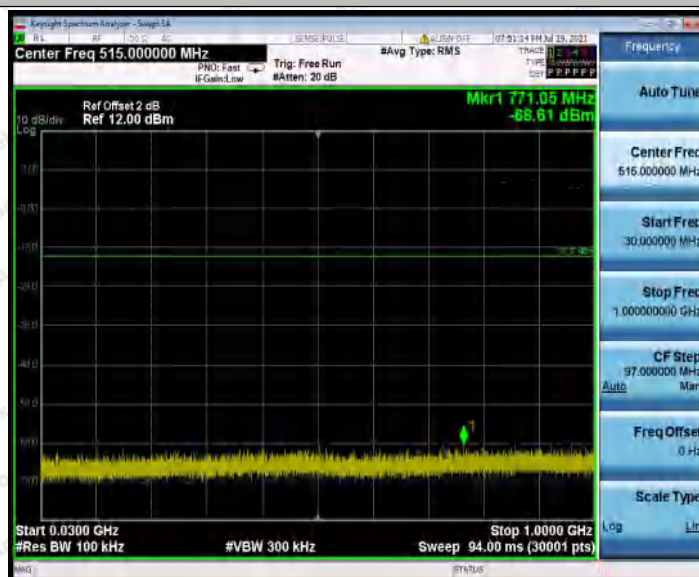
2DH5_Ant1_2402_1000~26500



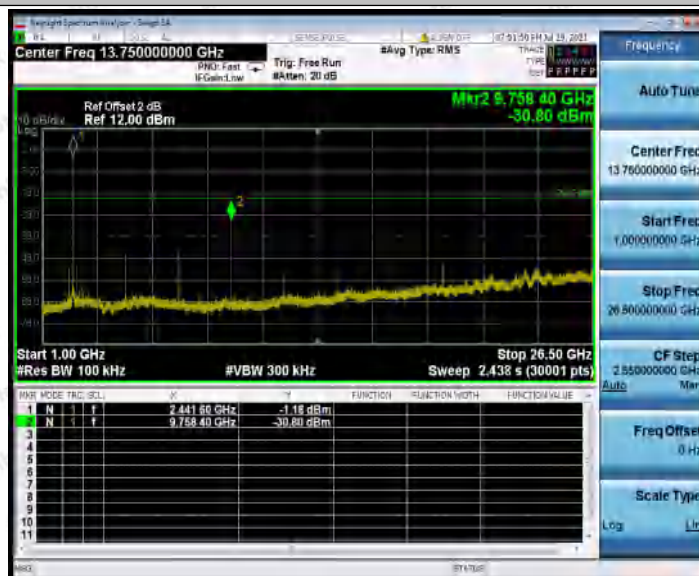
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



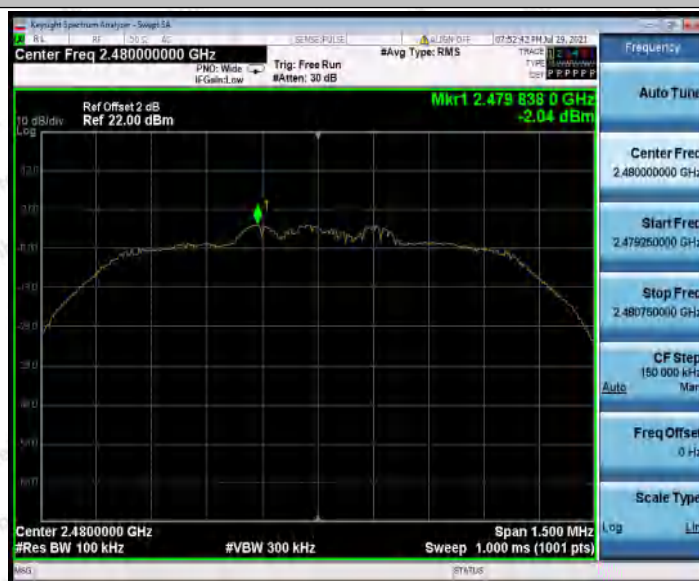
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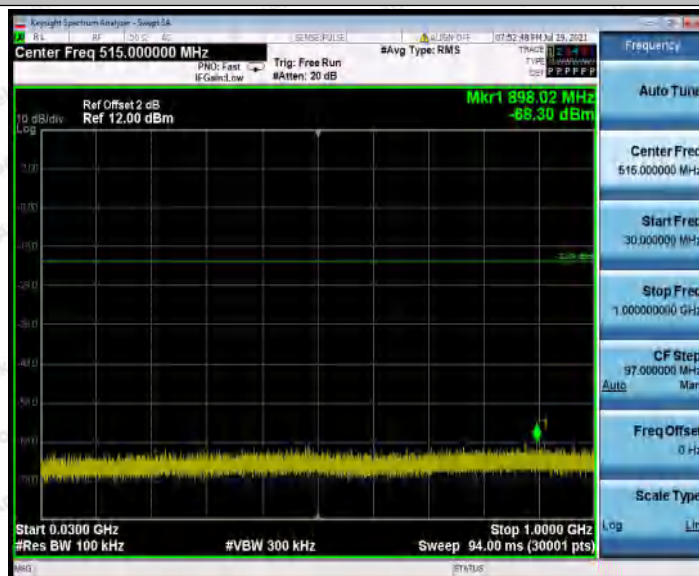
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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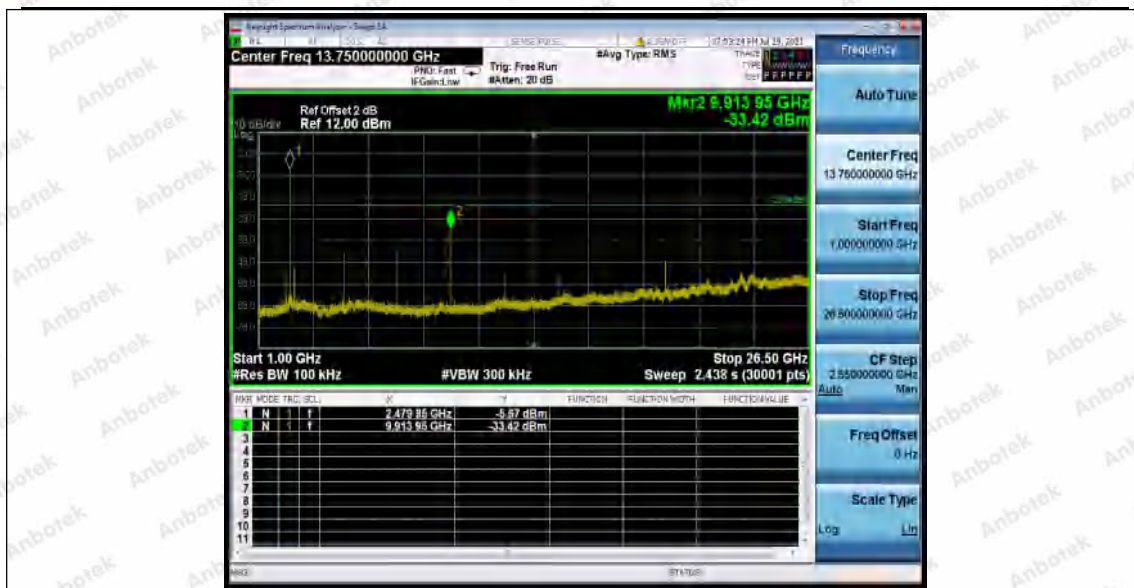
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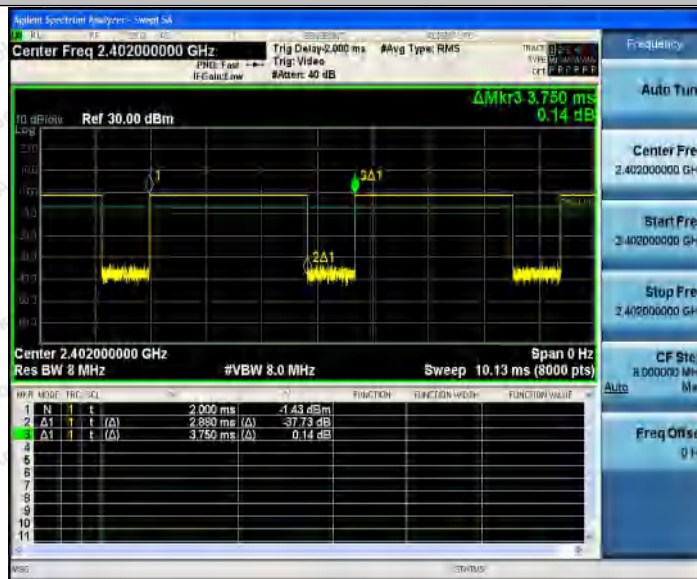
Appendix I: Duty Cycle

Test Result

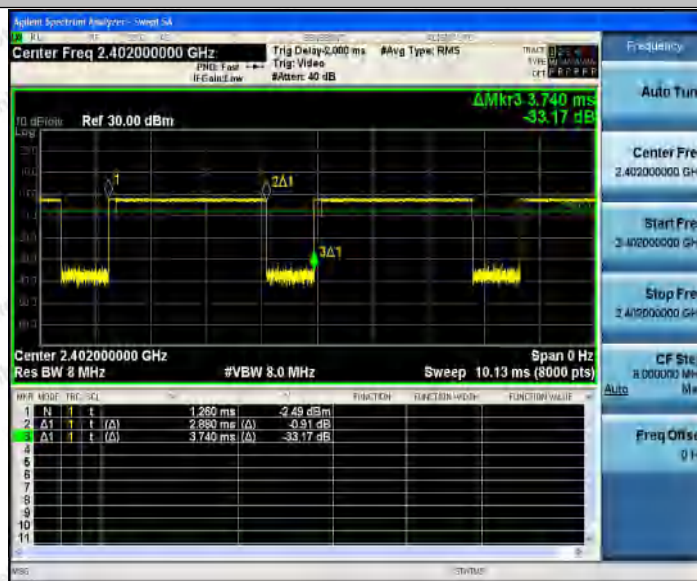
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



---End---

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