

Appendix Test Data

Report No:	18220WC10182701	Test Date:	2021.8.12
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	1.137	2401.421	2402.558	---	PASS
		2441	1.140	2440.421	2441.561	---	PASS
		2480	1.128	2479.412	2480.540	---	PASS
2DH5	Ant1	2402	1.353	2401.319	2402.672	---	PASS
		2441	1.359	2440.316	2441.675	---	PASS
		2480	1.350	2479.316	2480.666	---	PASS
3DH5	Ant1	2402	1.374	2401.319	2402.693	---	PASS
		2441	1.371	2440.313	2441.684	---	PASS
		2480	1.359	2479.331	2480.690	---	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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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88563	2401.552	2402.438	---	PASS
		2441	0.89249	2440.550	2441.442	---	PASS
		2480	0.89015	2479.550	2480.440	---	PASS
2DH5	Ant1	2402	1.2021	2401.394	2402.596	---	PASS
		2441	1.1880	2440.399	2441.587	---	PASS
		2480	1.1869	2479.400	2480.587	---	PASS
3DH5	Ant1	2402	1.2167	2401.378	2402.594	---	PASS
		2441	1.2026	2440.386	2441.588	---	PASS
		2480	1.2067	2479.383	2480.590	---	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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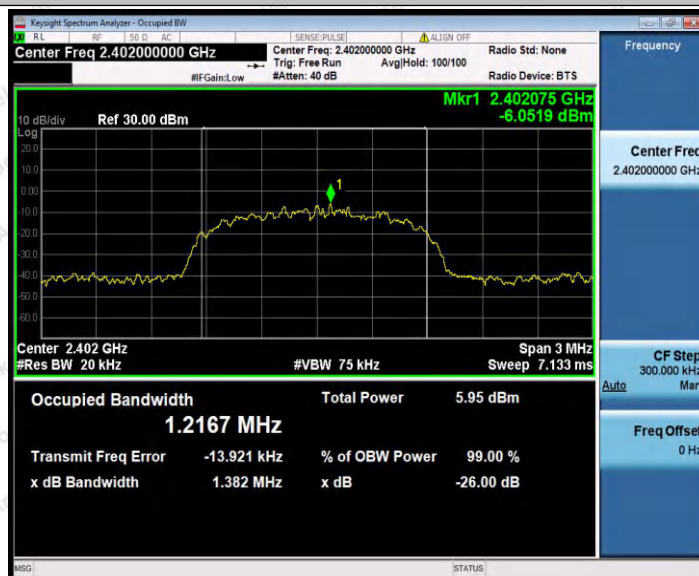
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2DH5_Ant1_2480



3DH5_Ant1_2402



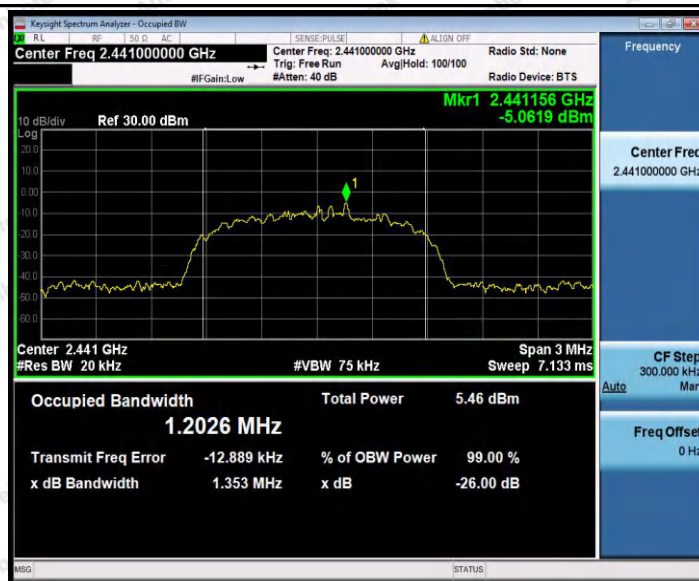
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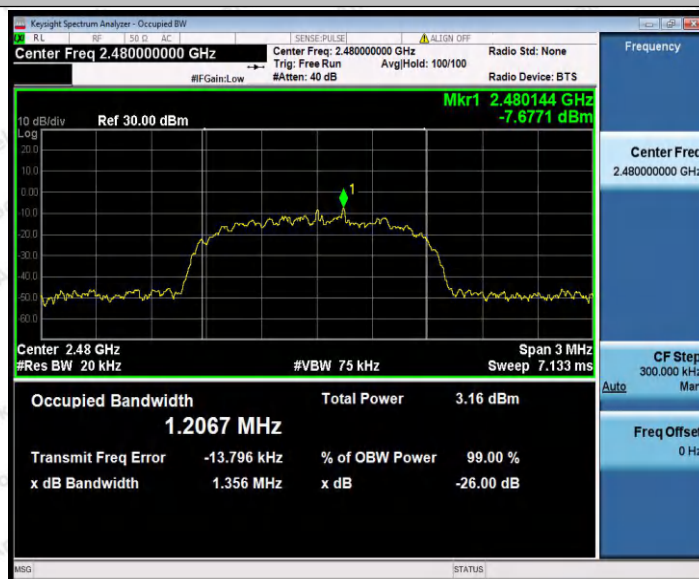
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3DH5_Ant1_2480



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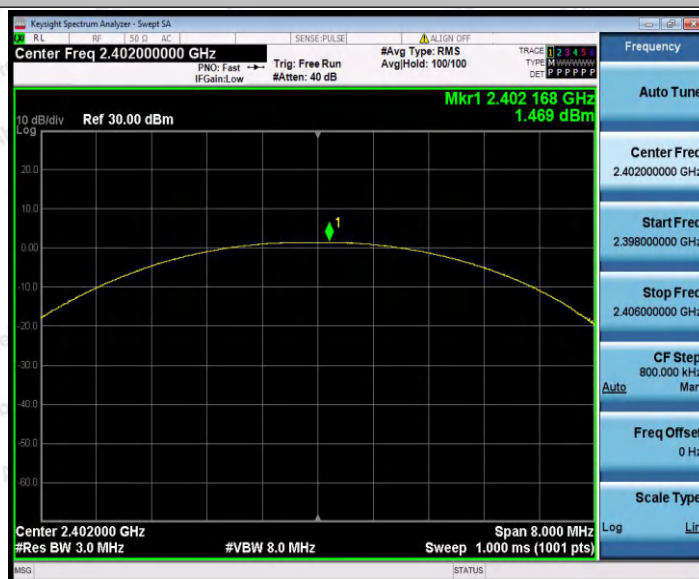
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.47	≤20.97	PASS
		2441	0.88	≤20.97	PASS
		2480	-0.29	≤20.97	PASS
2DH5	Ant1	2402	1.08	≤20.97	PASS
		2441	0.5	≤20.97	PASS
		2480	-1.15	≤20.97	PASS
3DH5	Ant1	2402	1.09	≤20.97	PASS
		2441	0.44	≤20.97	PASS
		2480	-1.16	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



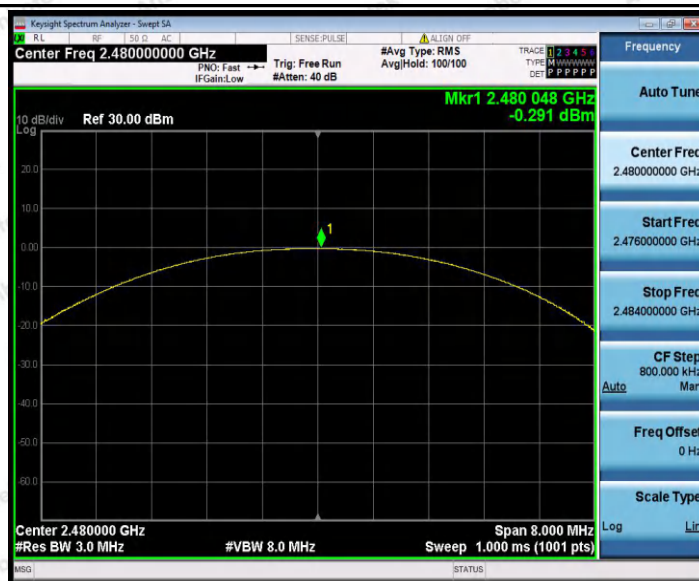
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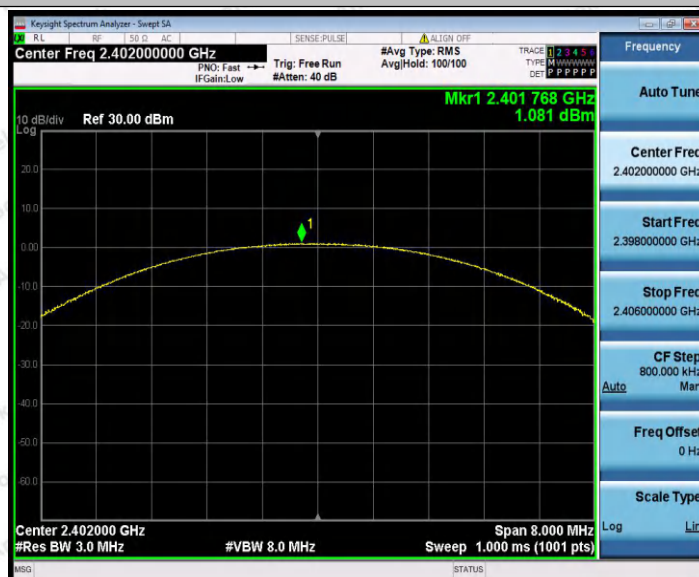
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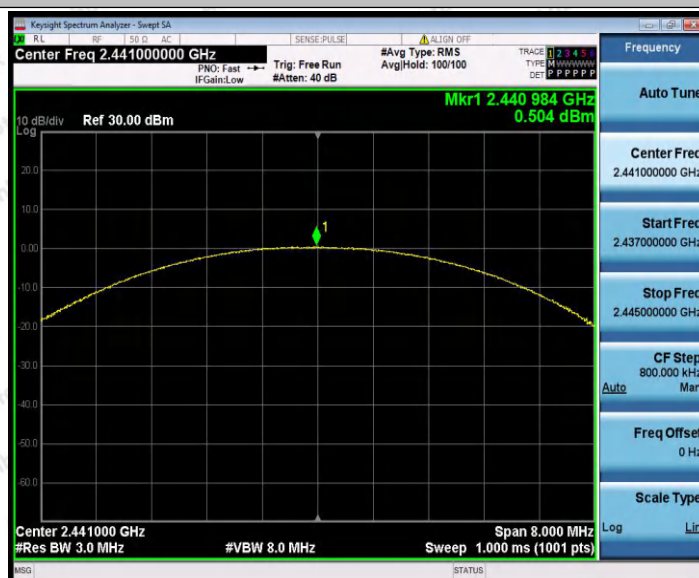
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2DH5_Ant1_2402



2DH5_Ant1_2441



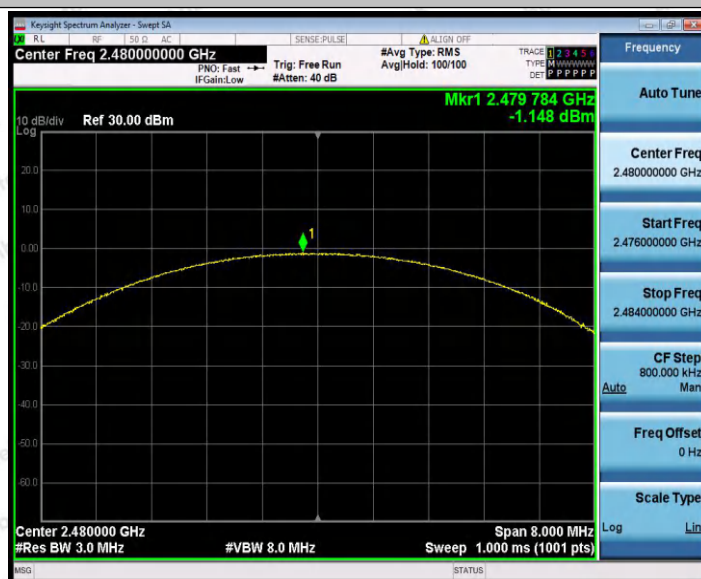
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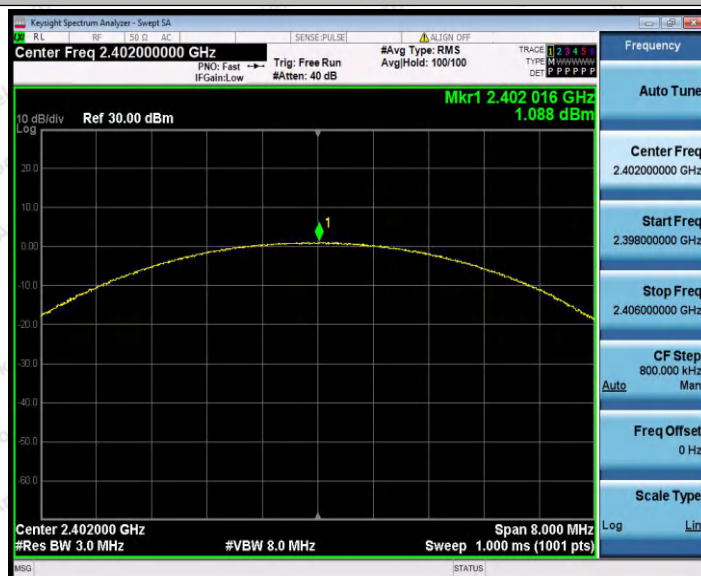
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.154	≥ 1.140	PASS
2DH5	Ant1	Hop	1	≥ 0.906	PASS
3DH5	Ant1	Hop	1.094	≥ 0.916	PASS

Test Graphs



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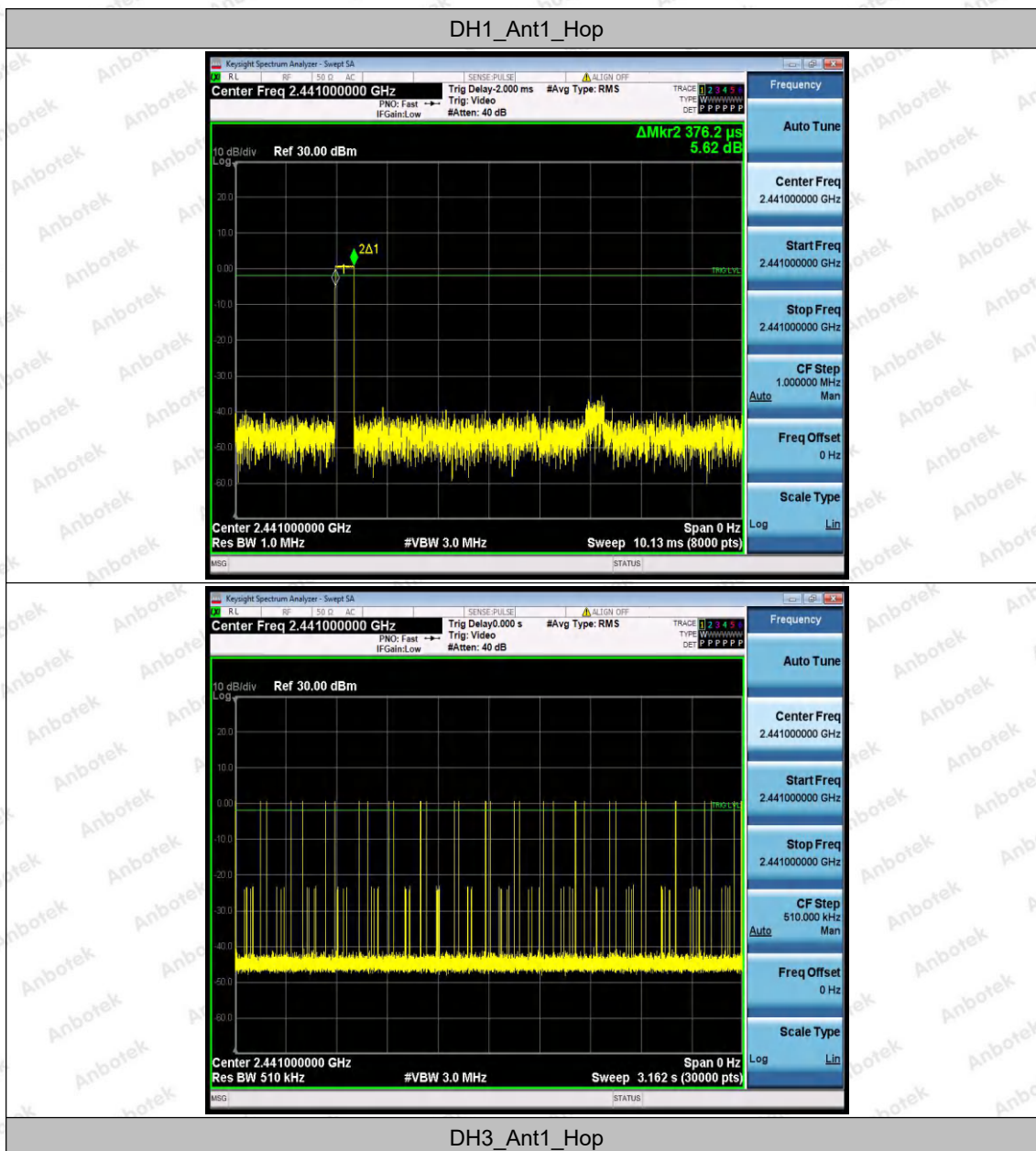
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Appendix E: Time of occupancy

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	190	0.31	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤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	130	0.375	≤0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.64	150	0.245	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

Test Graphs

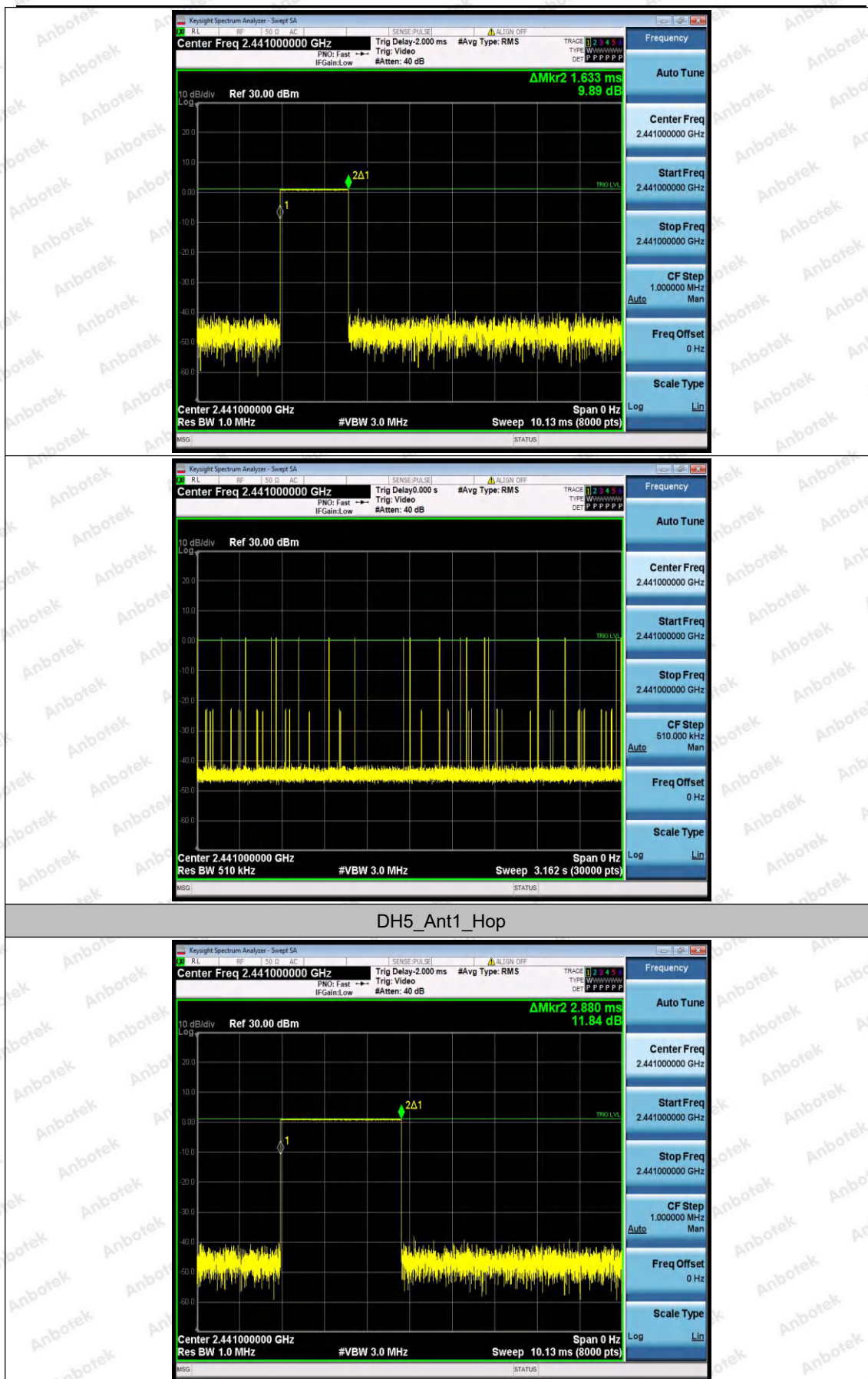


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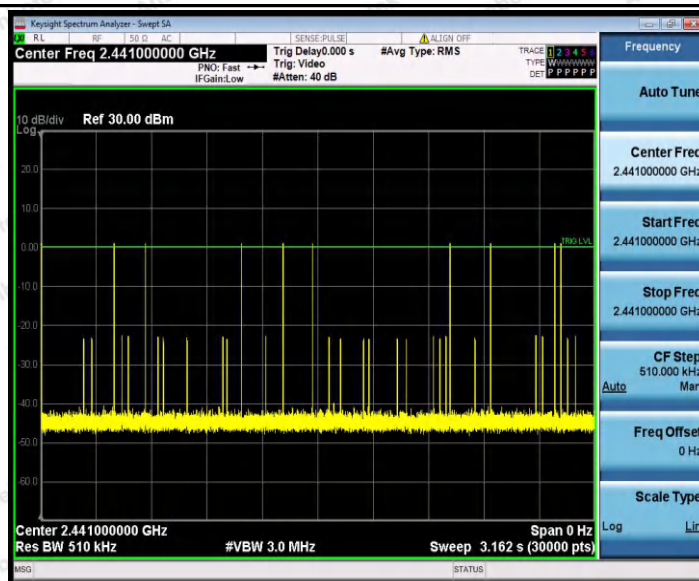
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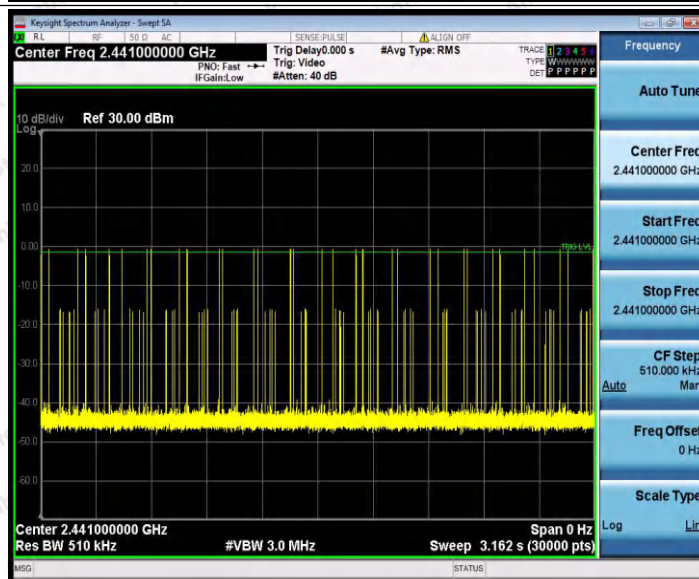
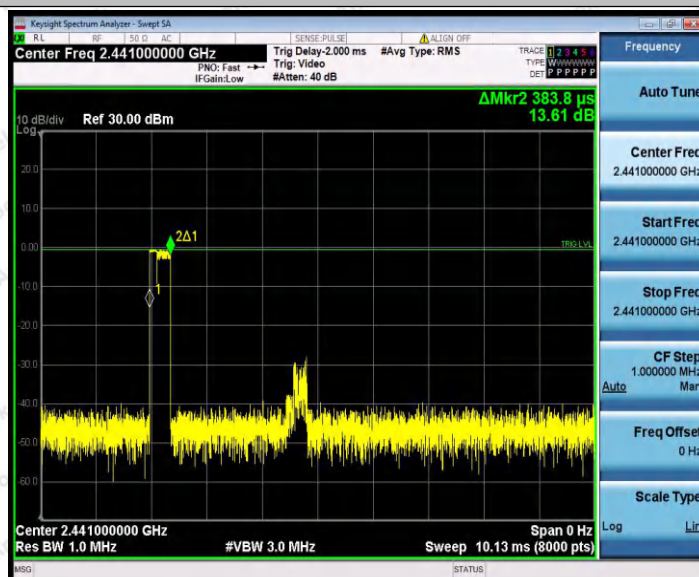
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DH5_Ant1_Hop



2DH1_Ant1_Hop



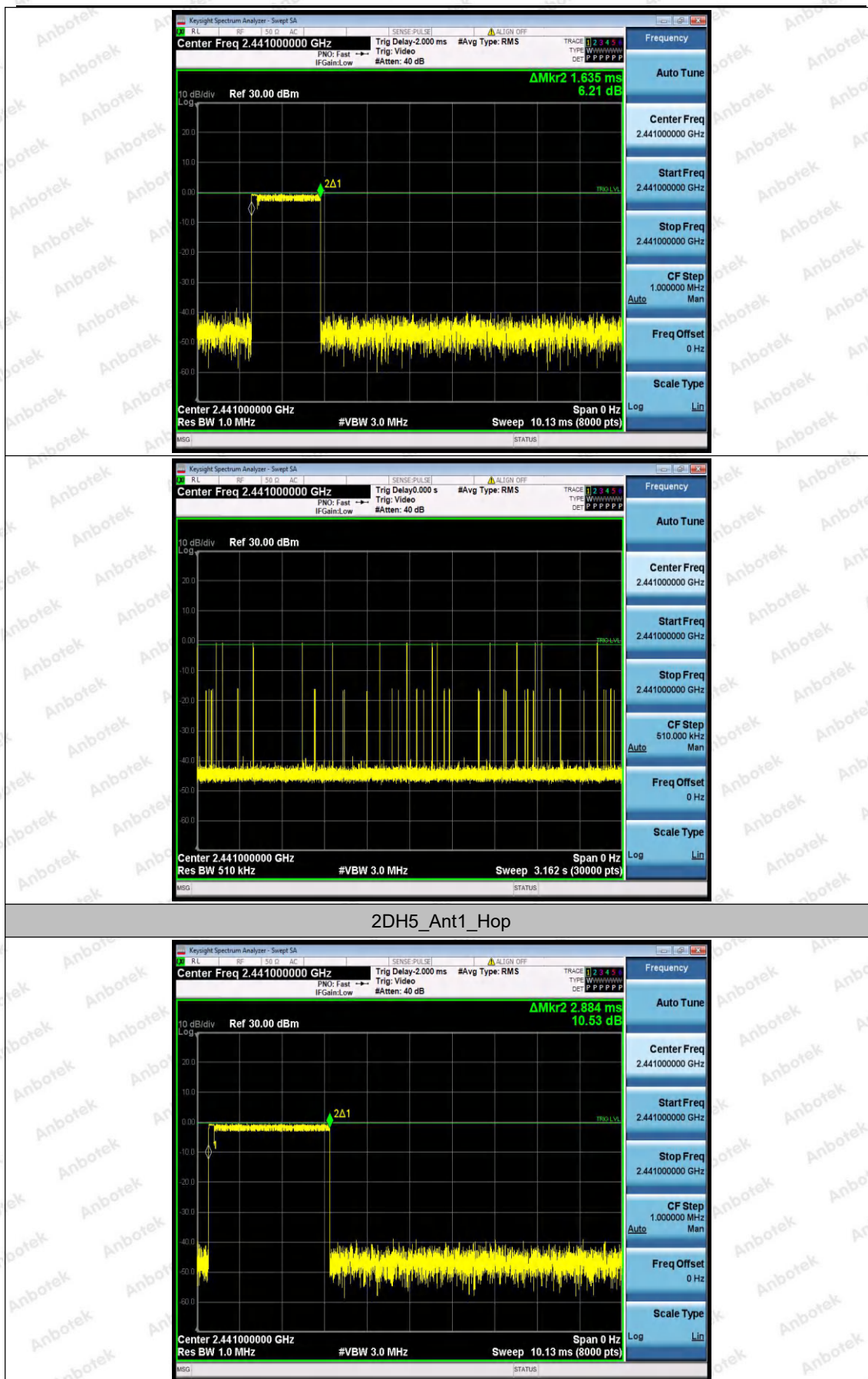
2DH3_Ant1_Hop

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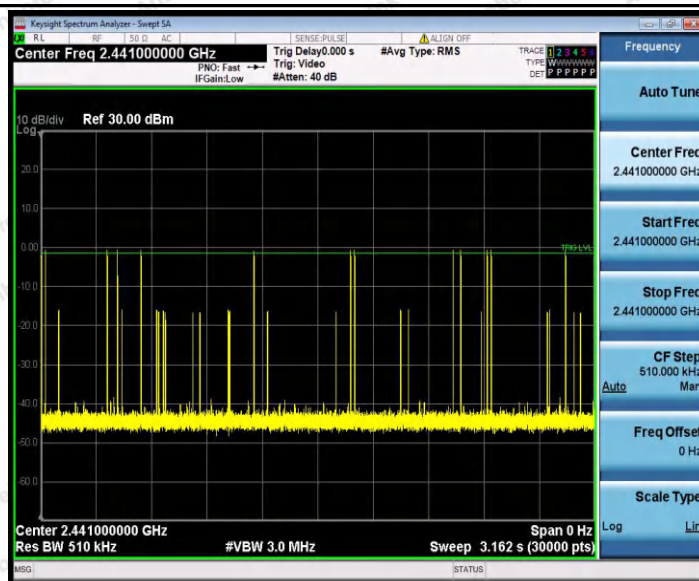
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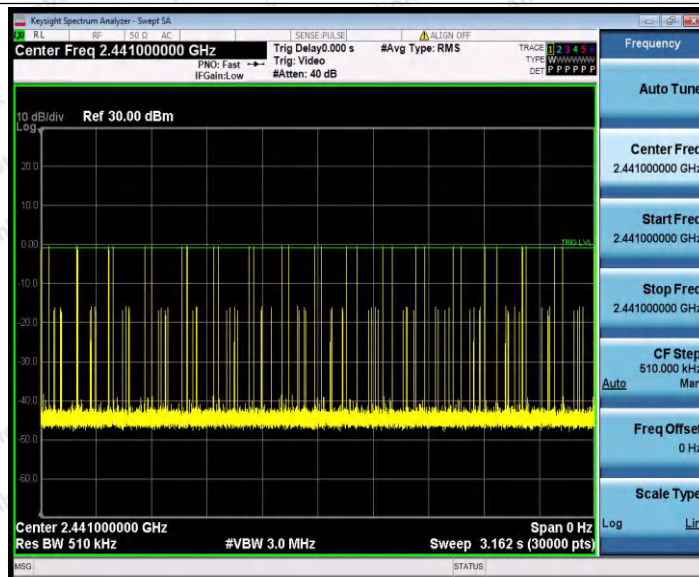
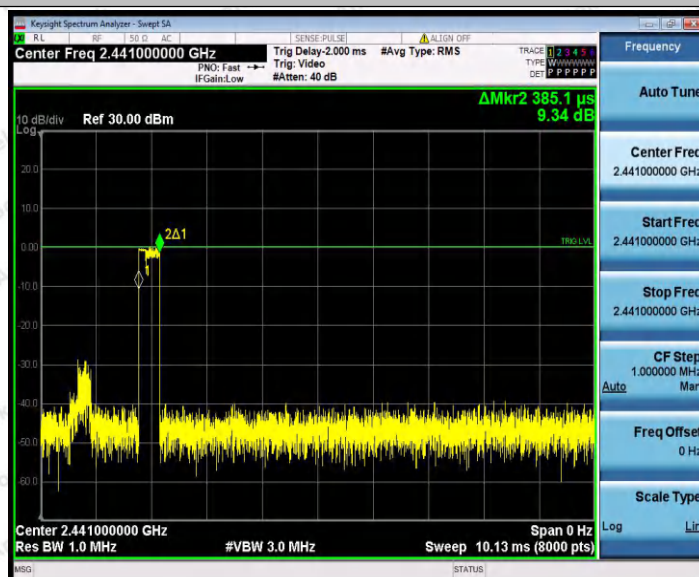
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3DH1_Ant1_Hop



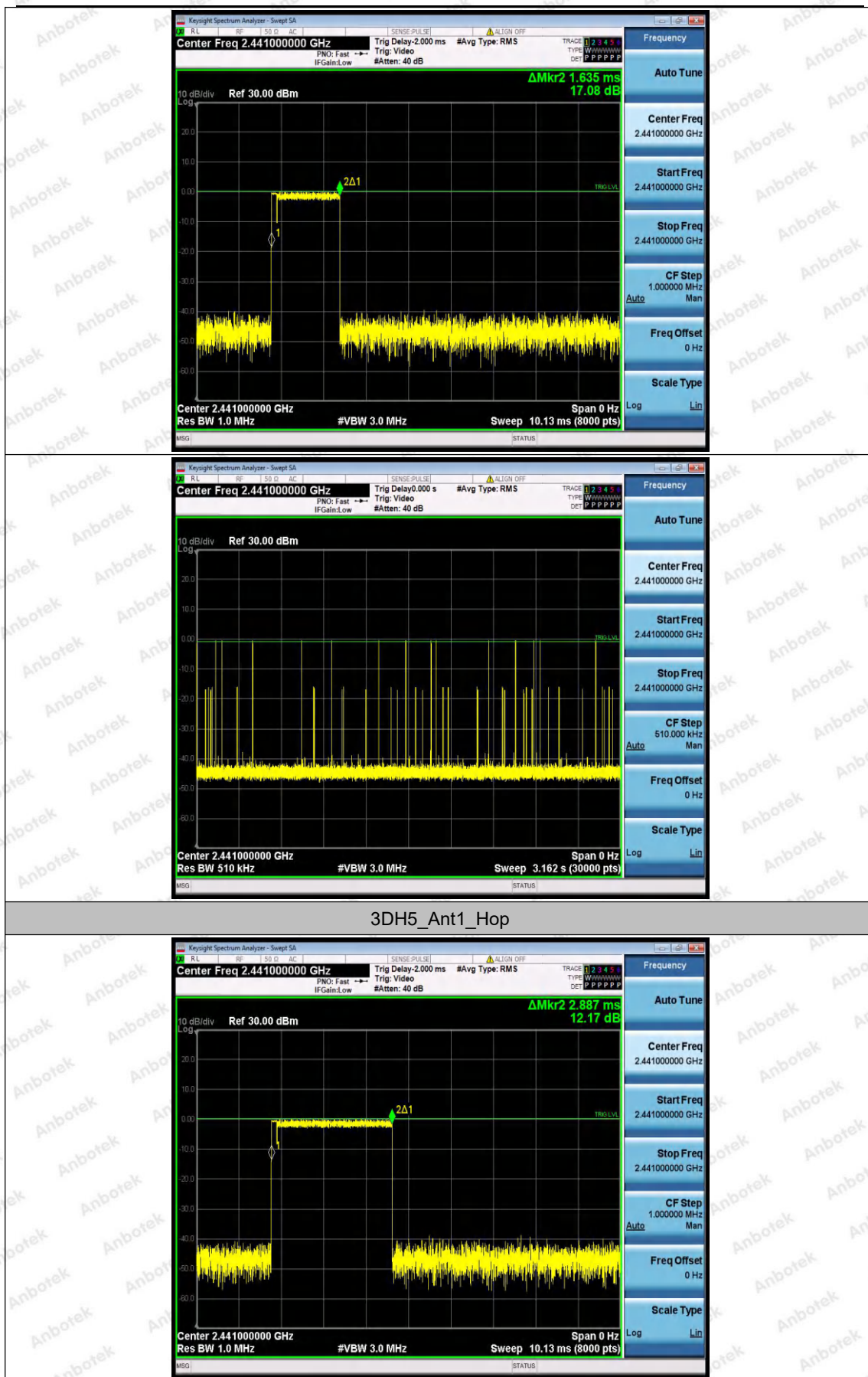
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3DH5_Ant1_Hop

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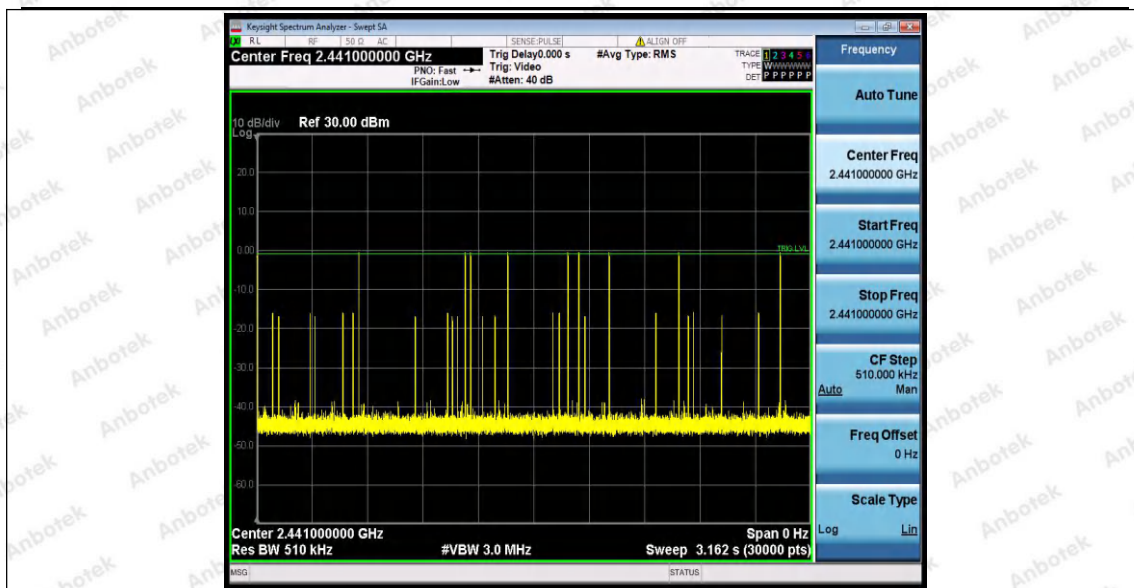
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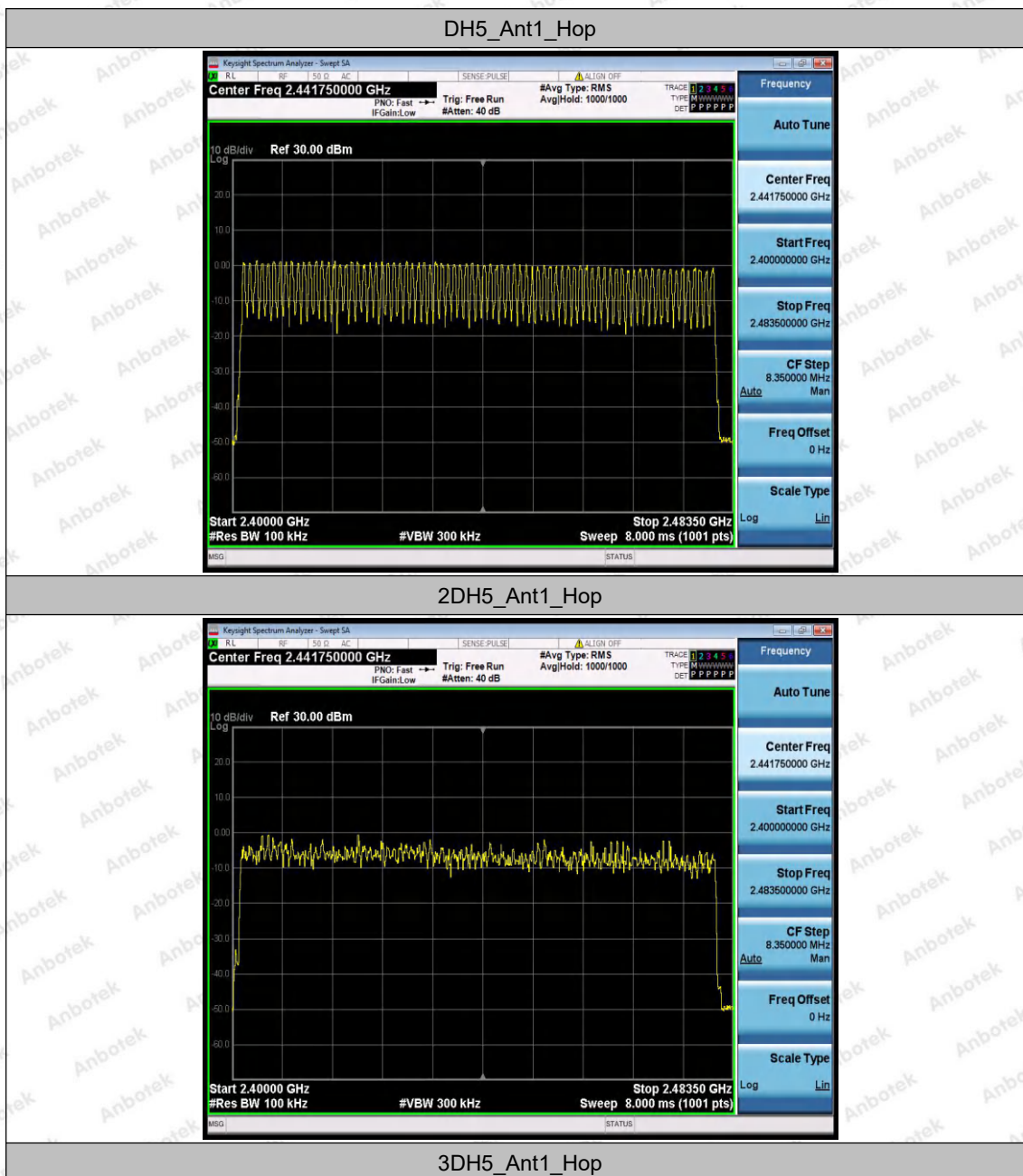
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Appendix F: Number of hopping channels

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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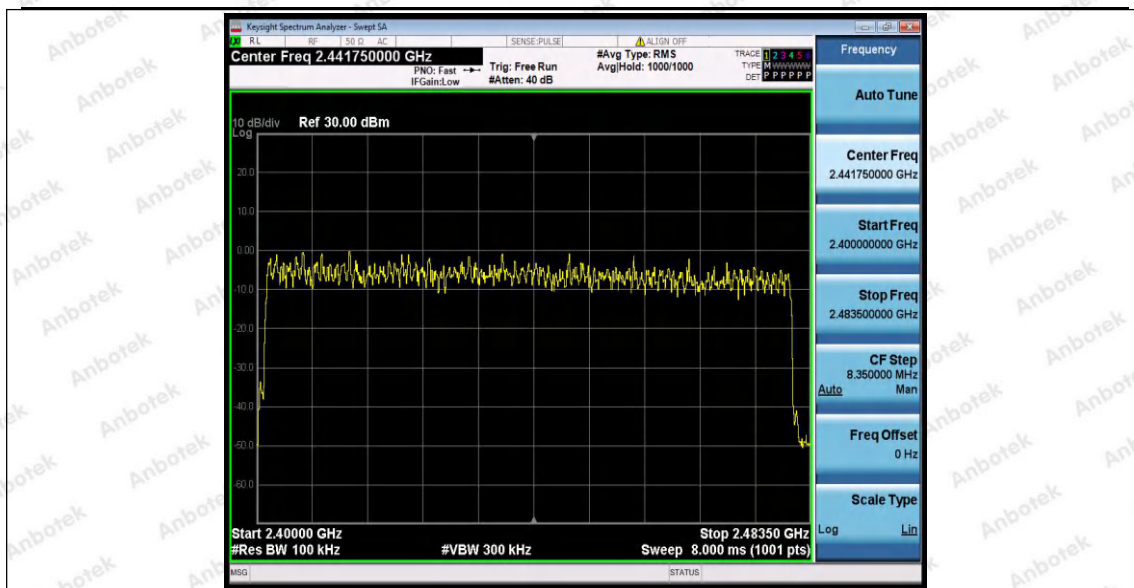
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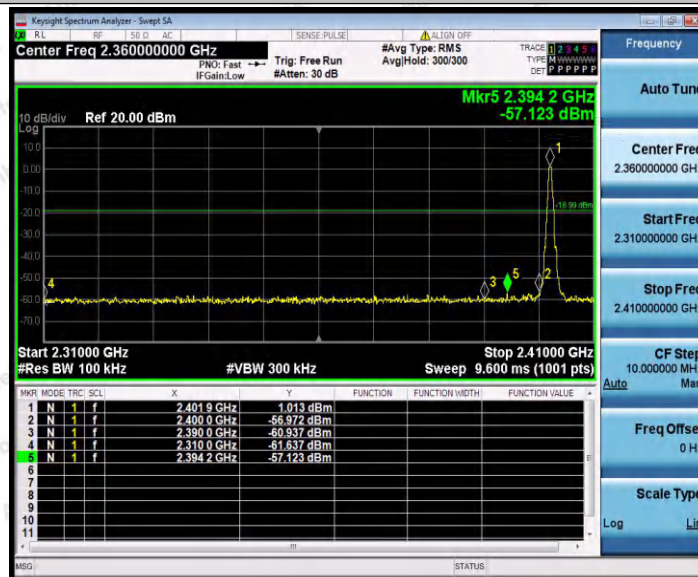
Appendix G: Band edge measurements

Test Result

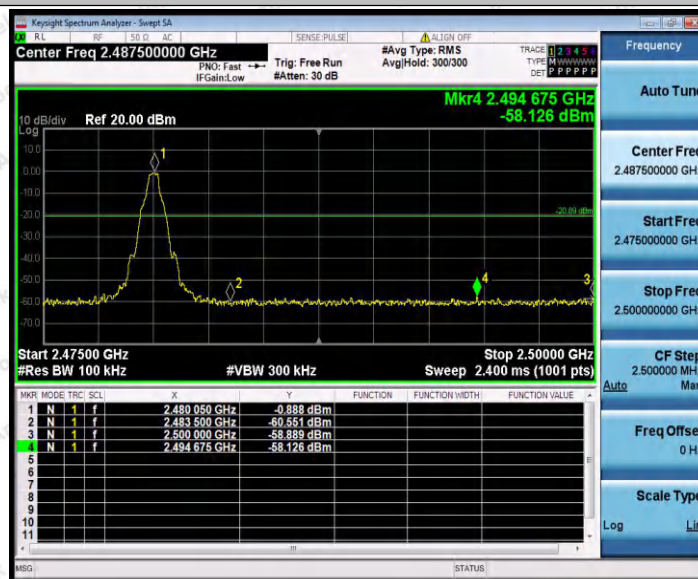
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.01	-57.12	≤-18.99	PASS
		High	2480	-0.89	-58.13	≤-20.89	PASS
		Low	Hop	1.27	-58.22	≤-18.73	PASS
		High	Hop	-1.71	-60.45	≤-21.71	PASS
2DH5	Ant1	Low	2402	-0.66	-55.34	≤-20.66	PASS
		High	2480	-2.55	-57.69	≤-22.55	PASS
		Low	Hop	-3.36	-57.76	≤-23.36	PASS
		High	Hop	-5.68	-61.24	≤-25.68	PASS
3DH5	Ant1	Low	2402	-0.01	-56.02	≤-20.01	PASS
		High	2480	-2.44	-56.67	≤-22.44	PASS
		Low	Hop	-0.53	-57.59	≤-20.53	PASS
		High	Hop	-5.90	-61.18	≤-25.9	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



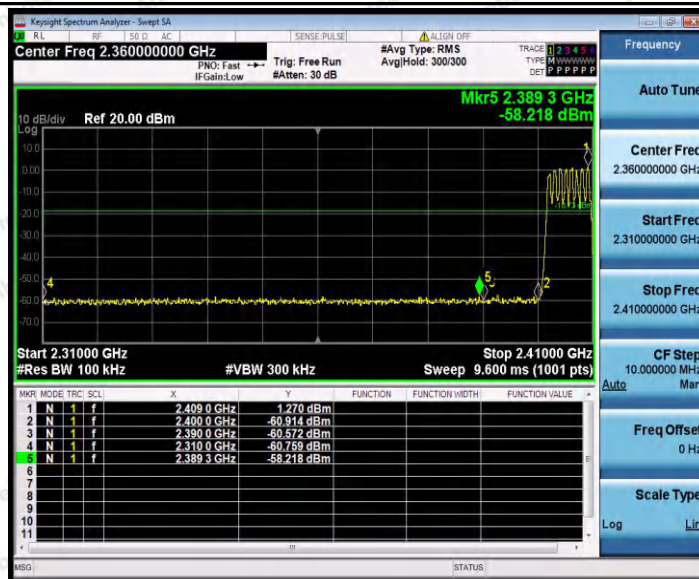
DH5_Ant1_Low_Hop

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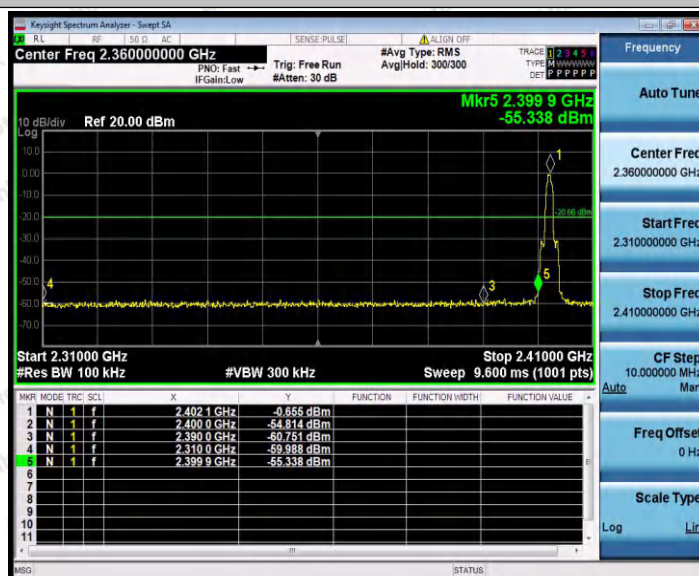
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



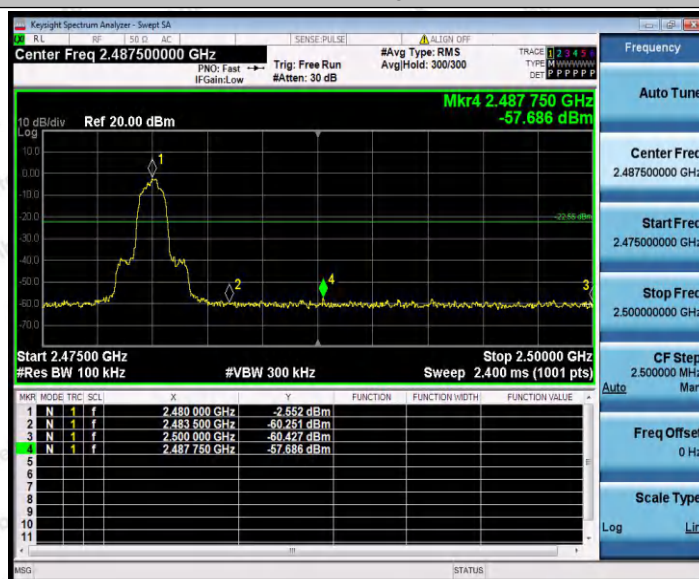
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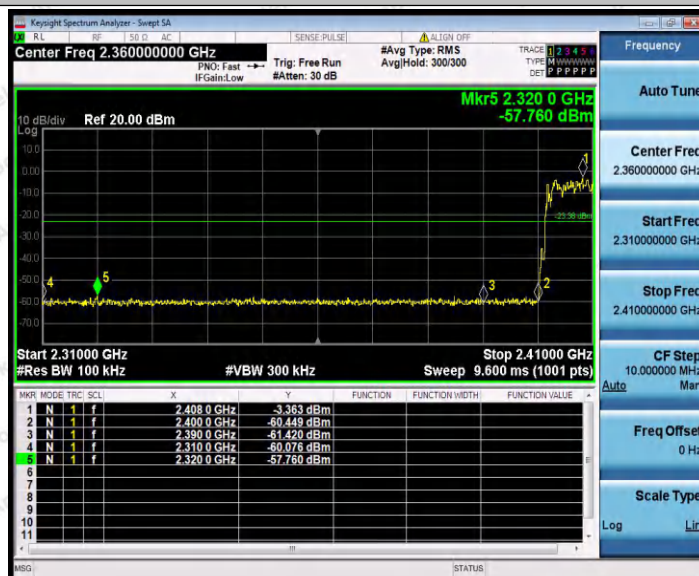
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



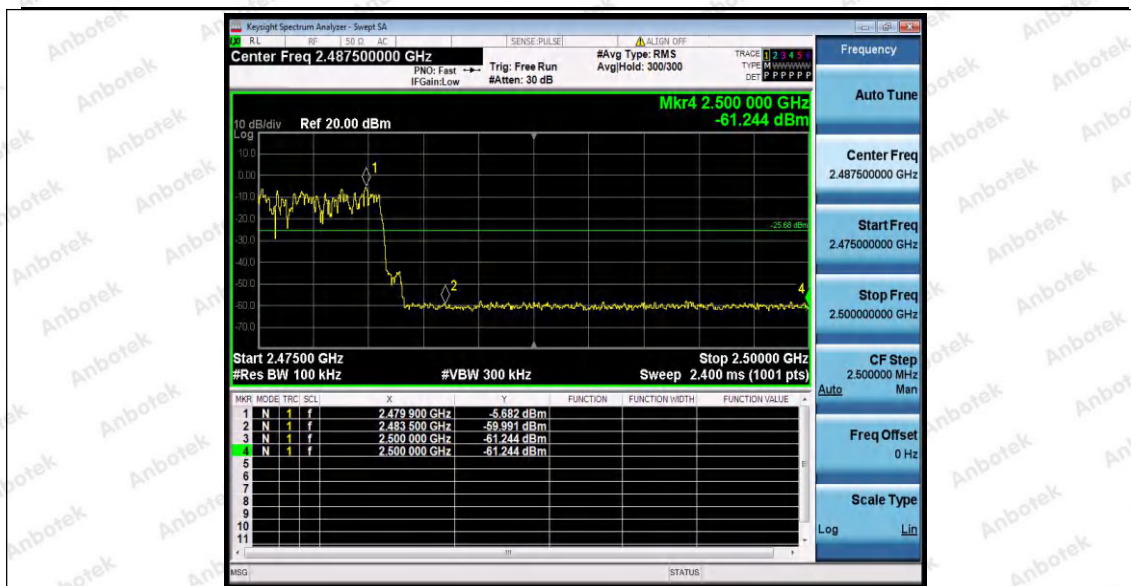
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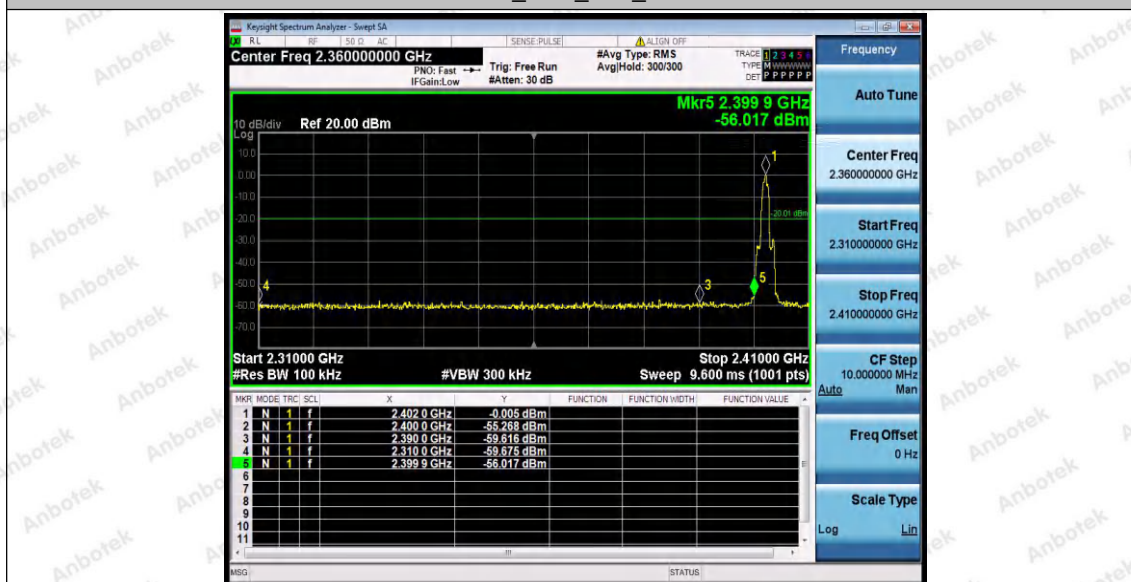
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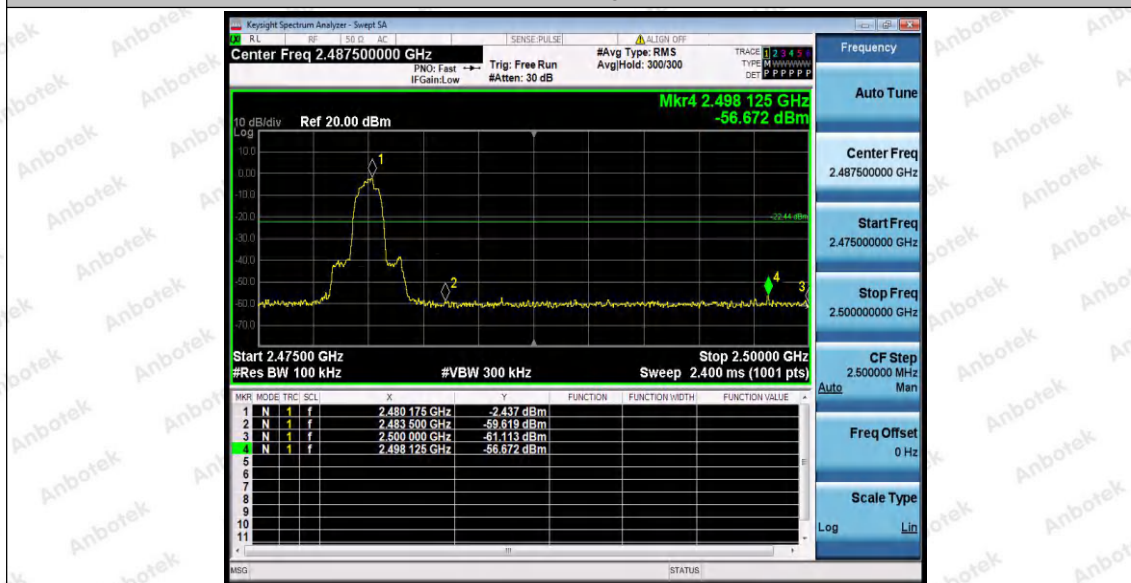
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



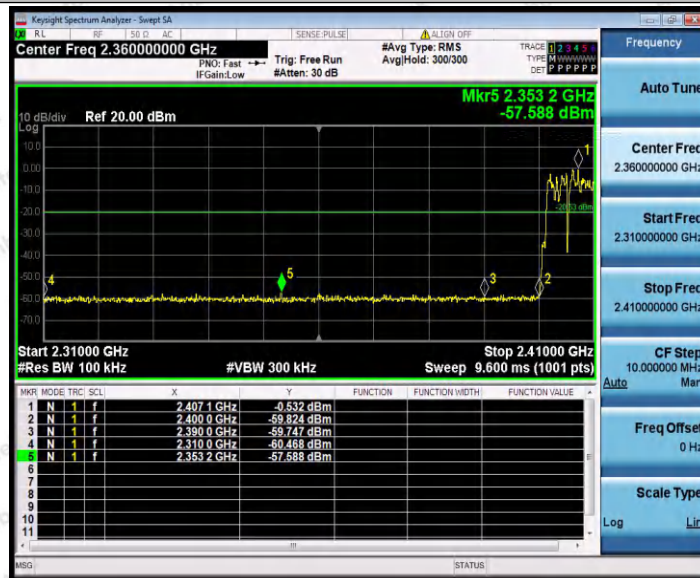
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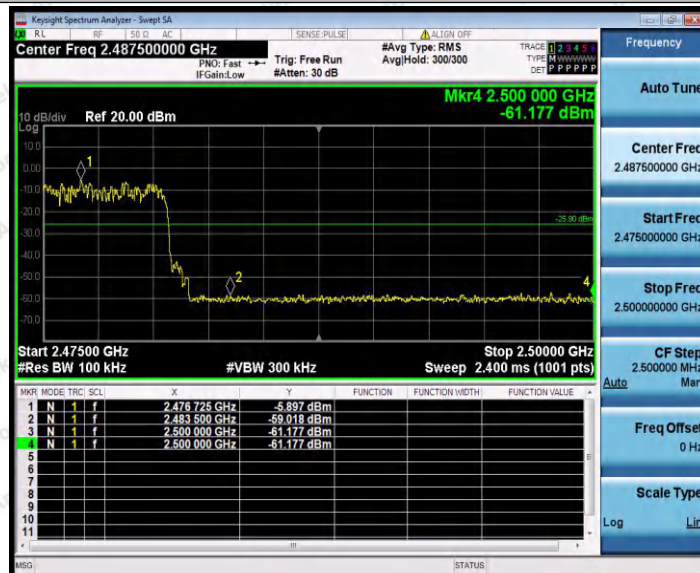
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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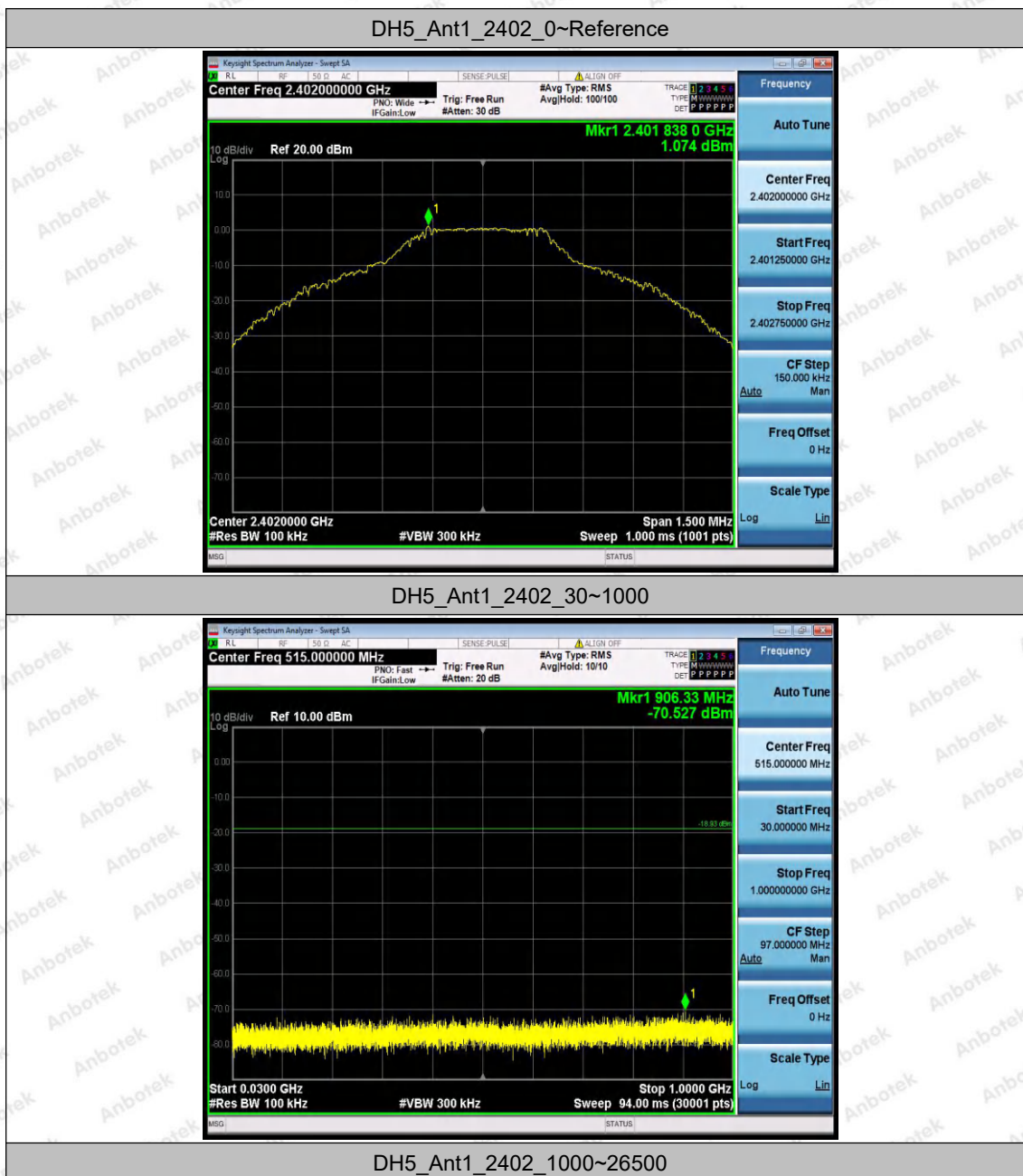
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-70.53	≤-18.93	PASS
			1000~26500	1.07	-42.85	≤-18.93	PASS
		2441	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-70.03	≤-20.05	PASS
			1000~26500	-0.05	-43.59	≤-20.05	PASS
		2480	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-70.16	≤-20.84	PASS
			1000~26500	-0.84	-47.36	≤-20.84	PASS
2DH5	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-70.85	≤-19.95	PASS
			1000~26500	0.05	-48.59	≤-19.95	PASS
		2441	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-69.98	≤-20.71	PASS
			1000~26500	-0.71	-47.79	≤-20.71	PASS
		2480	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-70.36	≤-22.36	PASS
			1000~26500	-2.36	-50.21	≤-22.36	PASS
3DH5	Ant1	2402	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-71.24	≤-20.61	PASS
			1000~26500	-0.61	-49.42	≤-20.61	PASS
		2441	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-71.12	≤-21.42	PASS
			1000~26500	-1.42	-48.37	≤-21.42	PASS
		2480	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-71.36	≤-22.55	PASS
			1000~26500	-2.55	-51.55	≤-22.55	PASS

Test Graphs

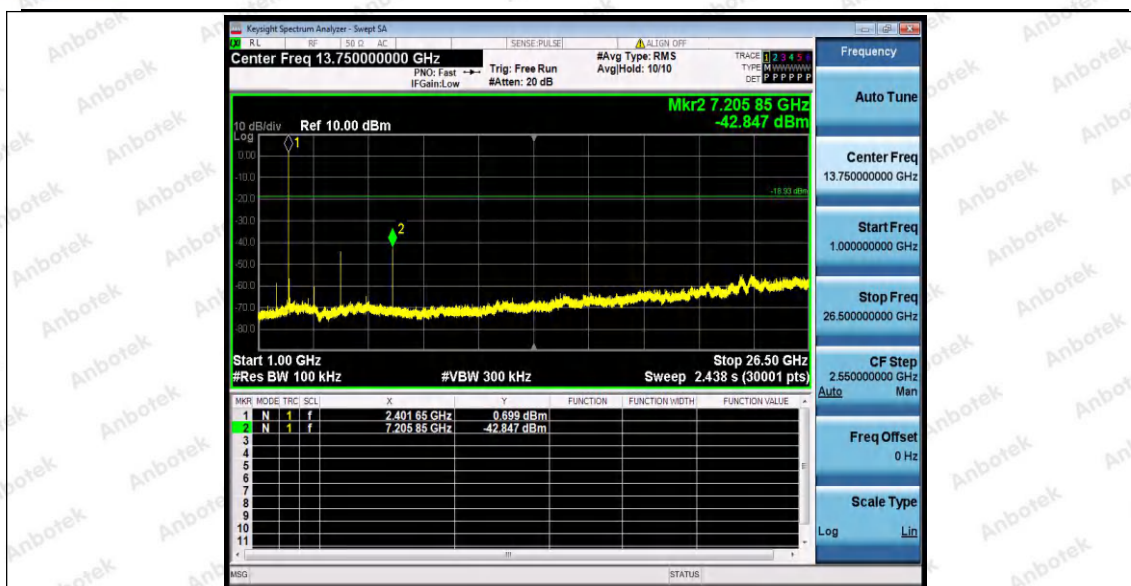


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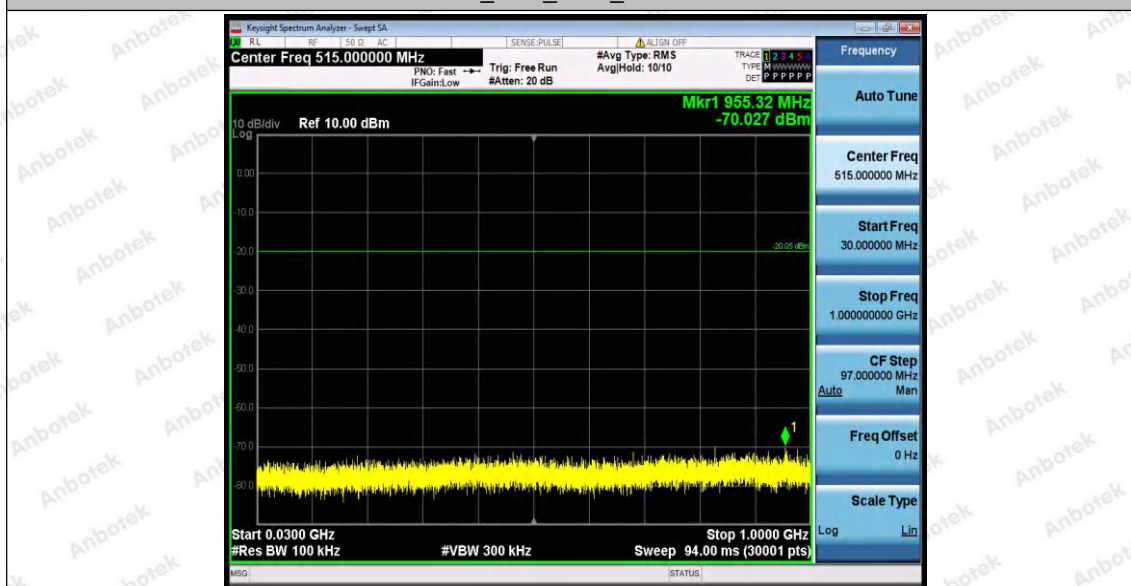
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



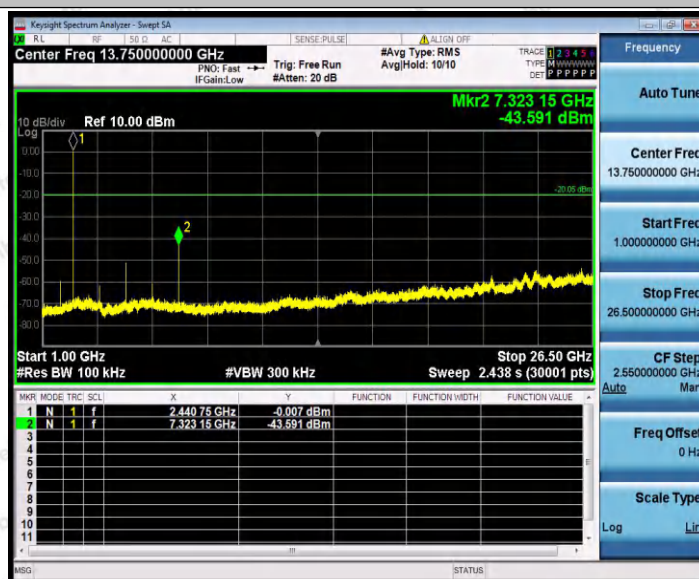
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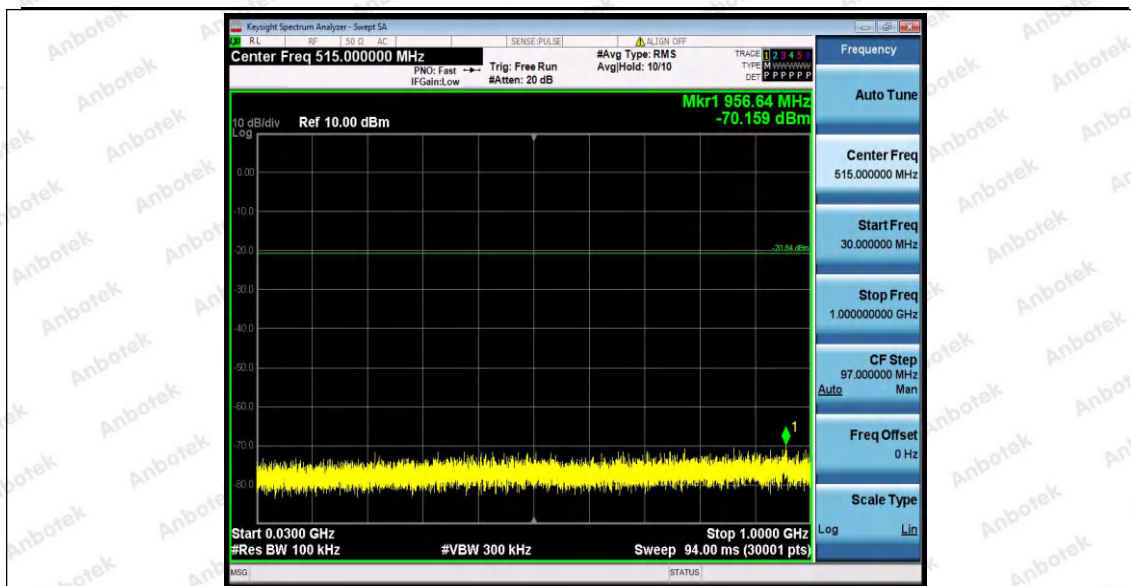
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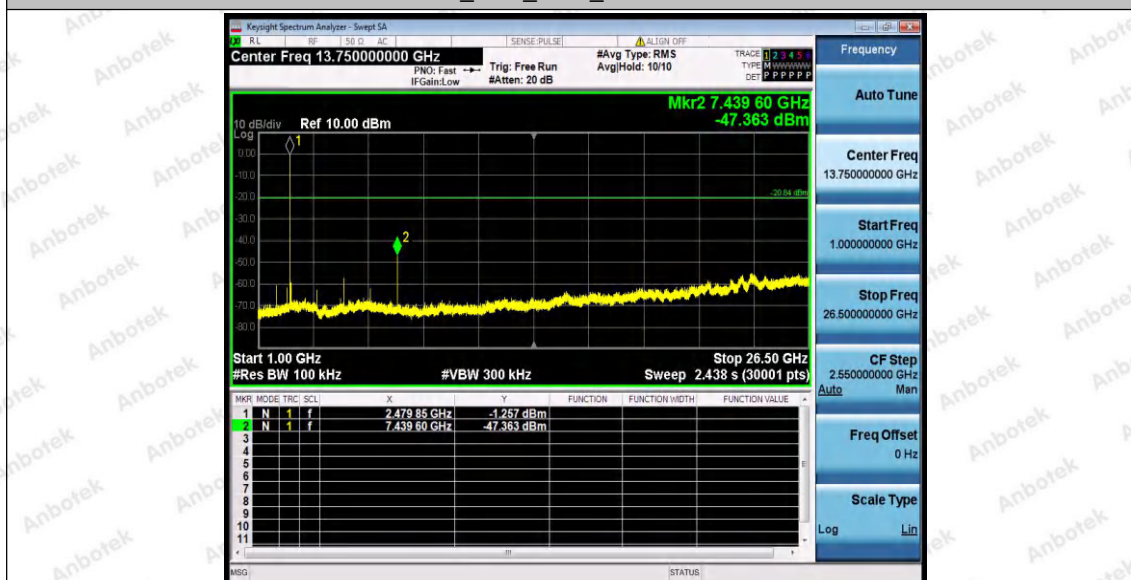
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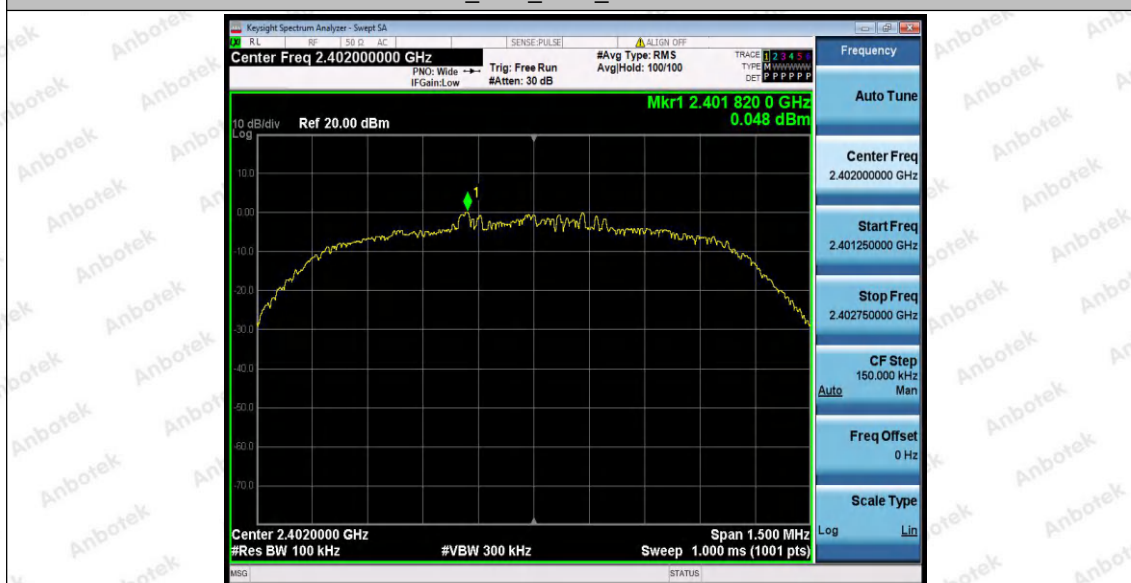
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

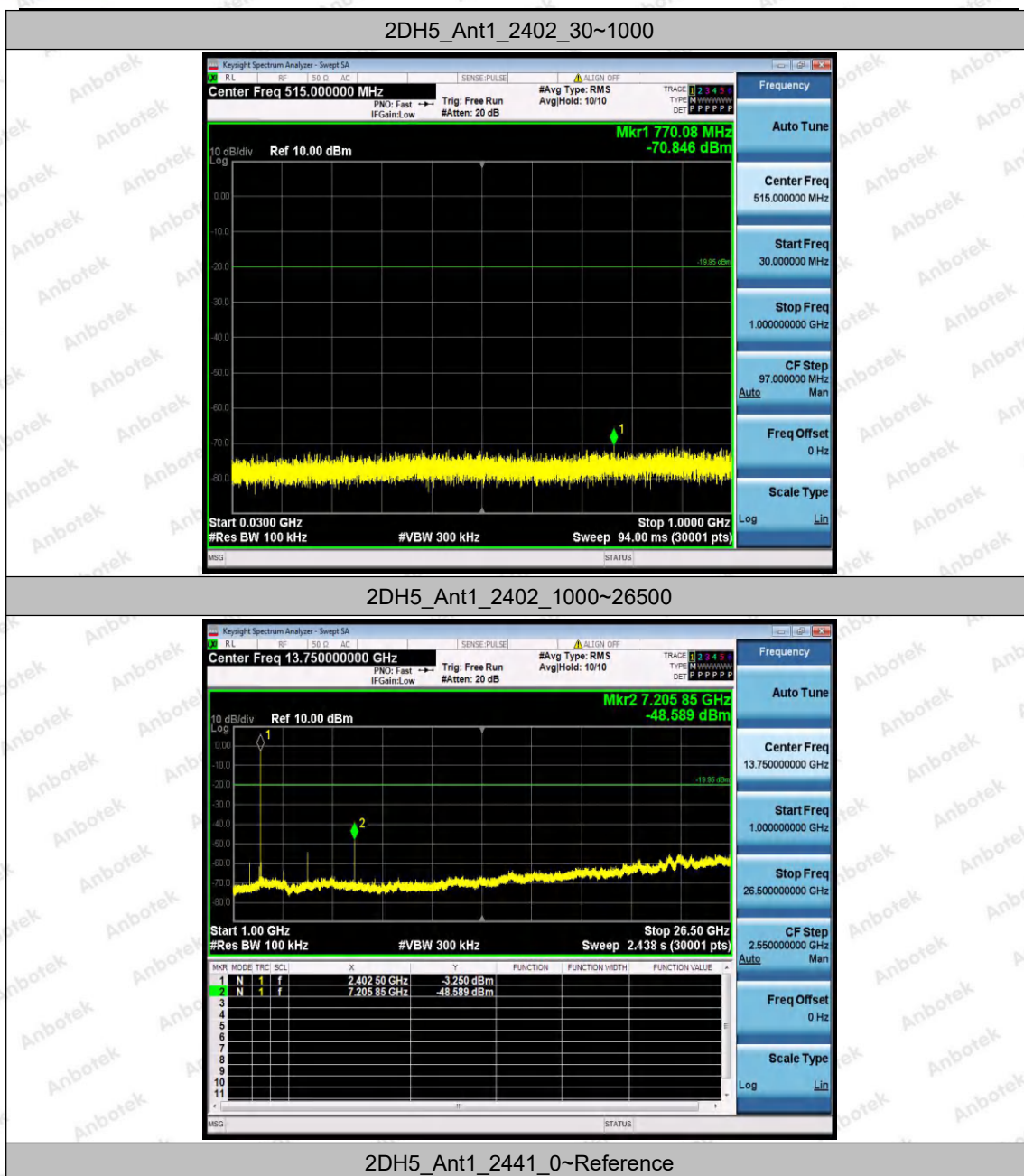


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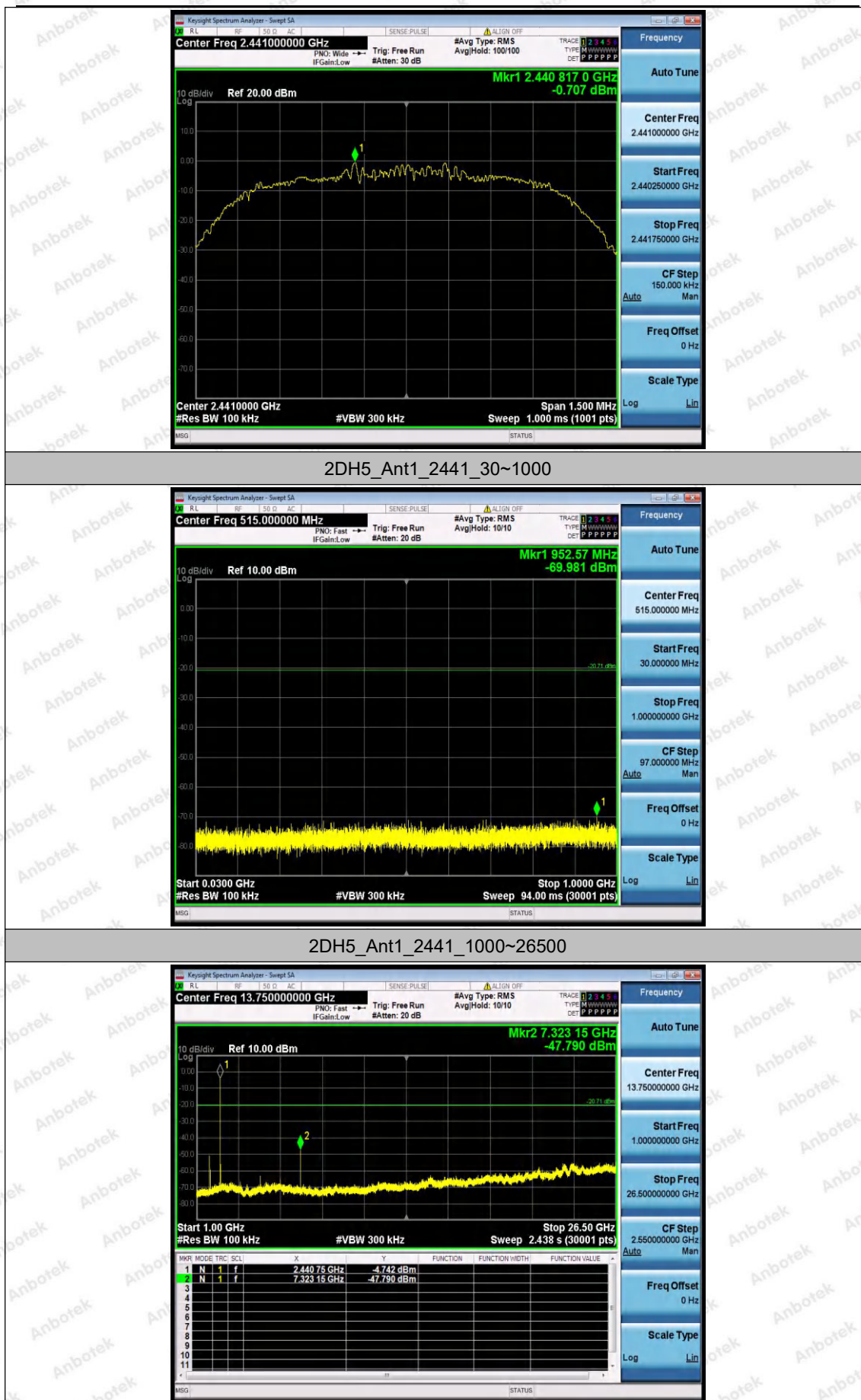


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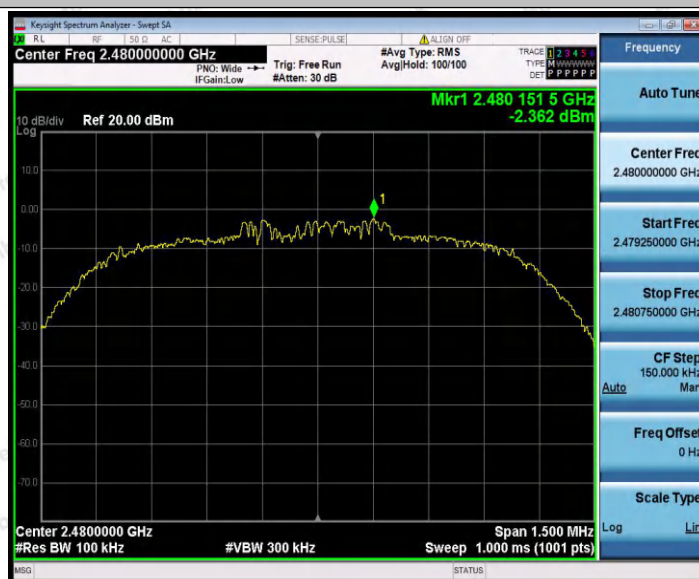
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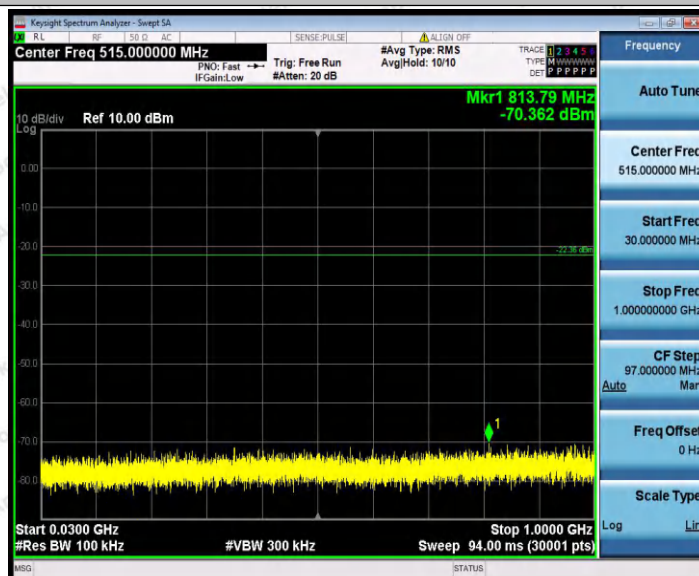
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



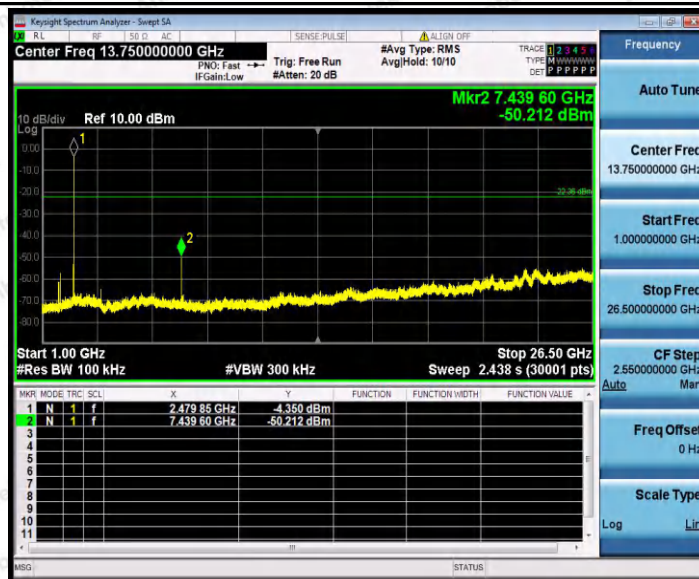
2DH5_Ant1_2480_1000~26500

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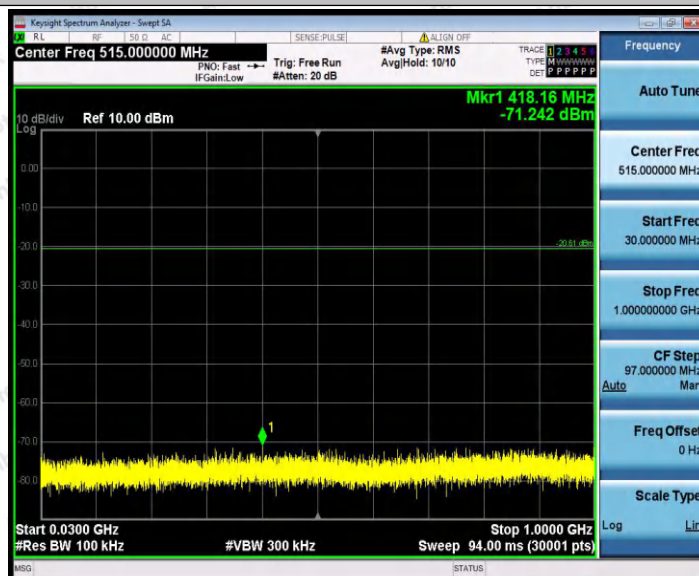
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



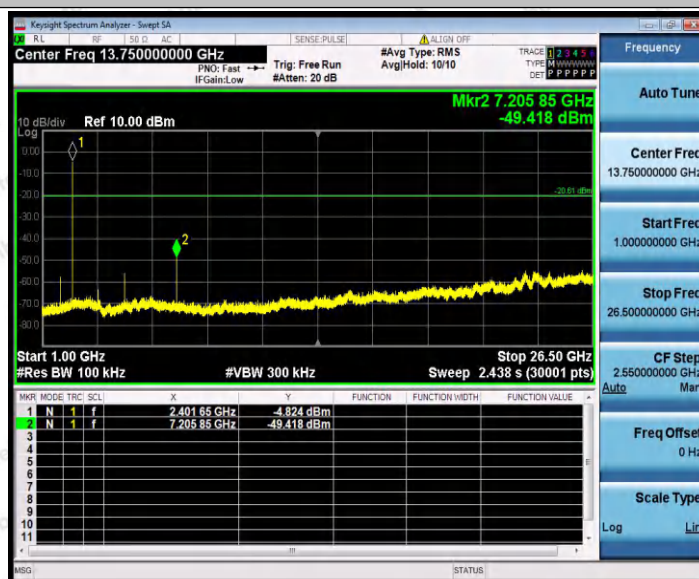
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



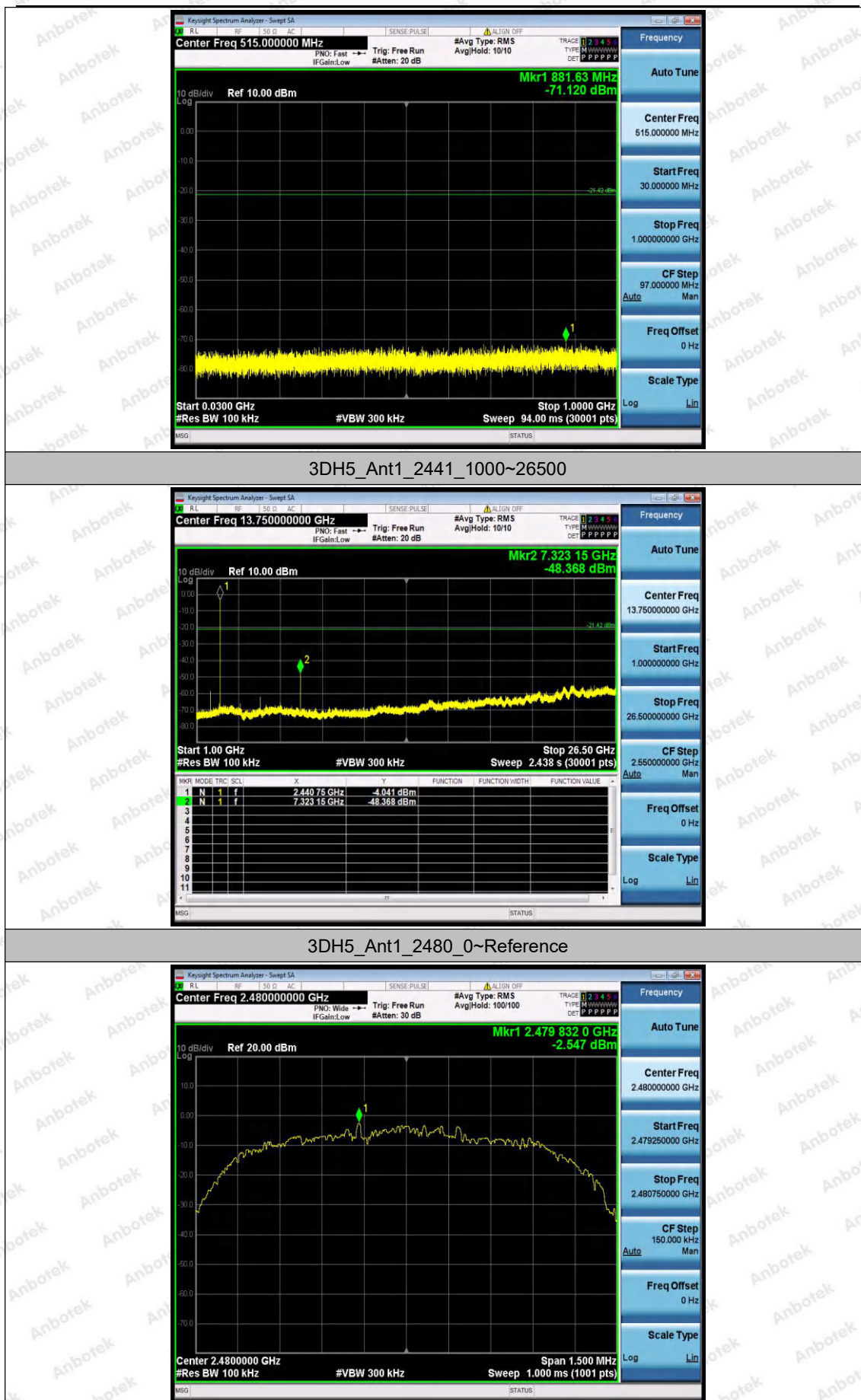
3DH5_Ant1_2441_30~1000

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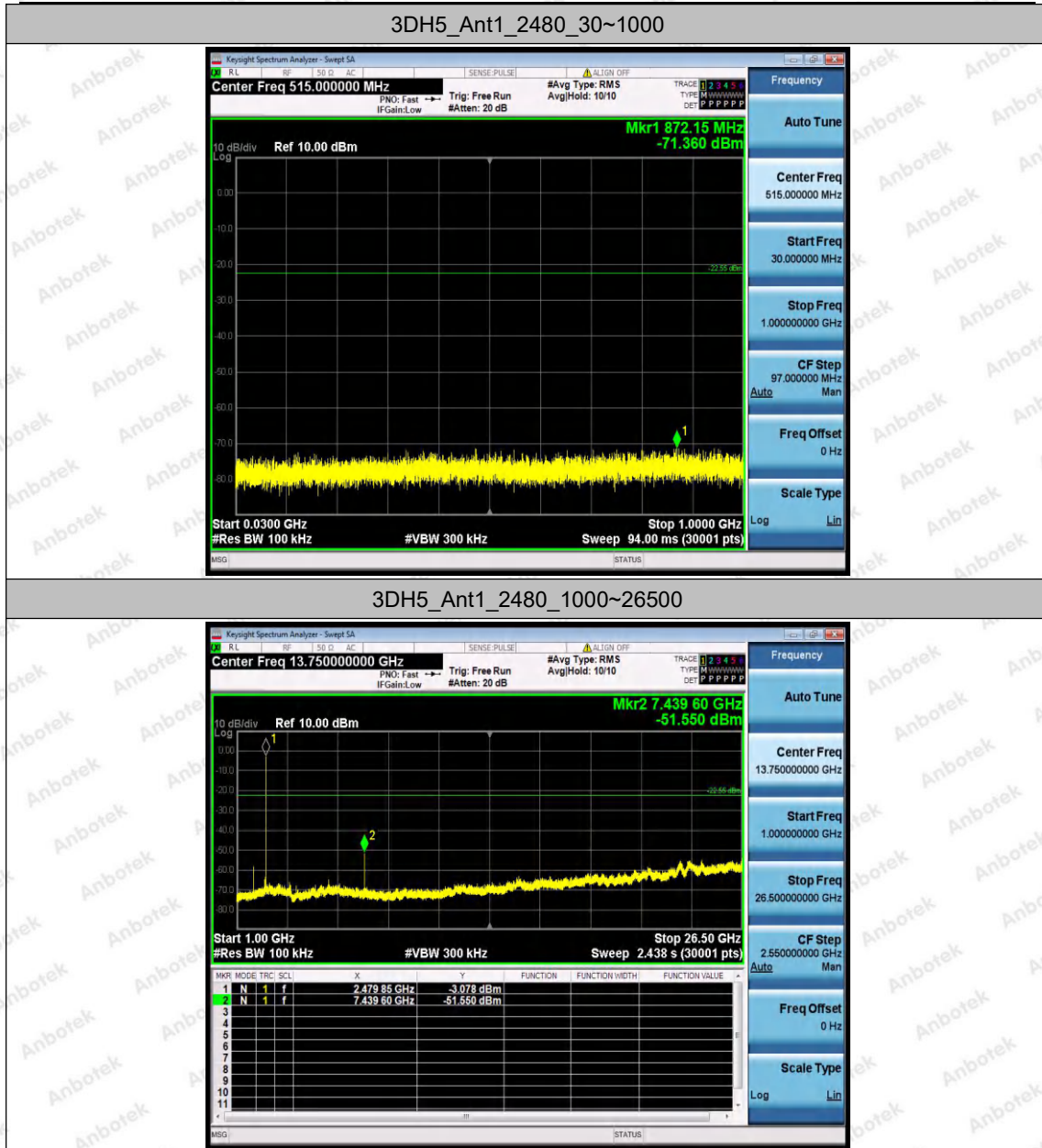


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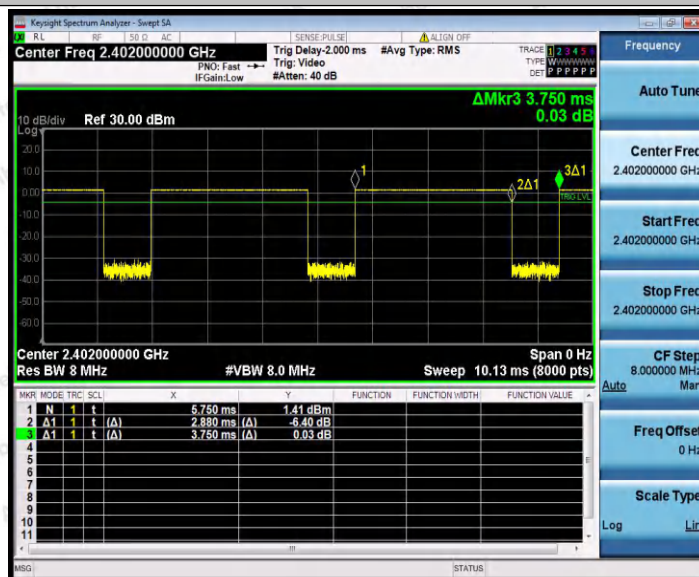
Appendix I: Duty Cycle

Test Result

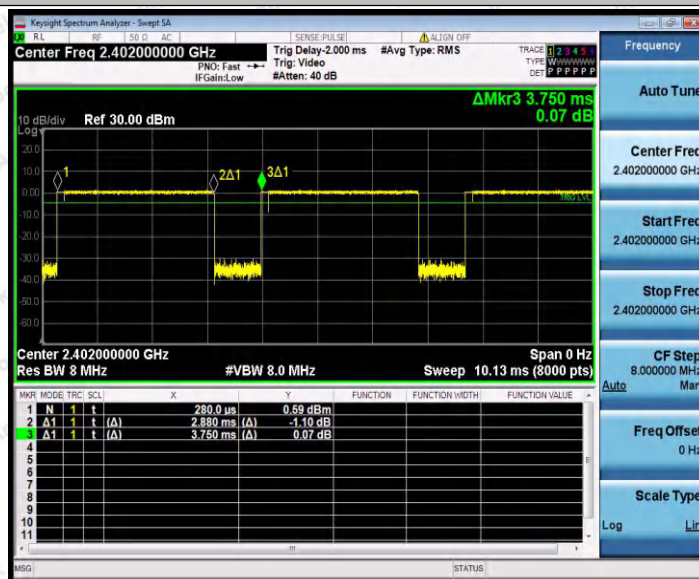
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



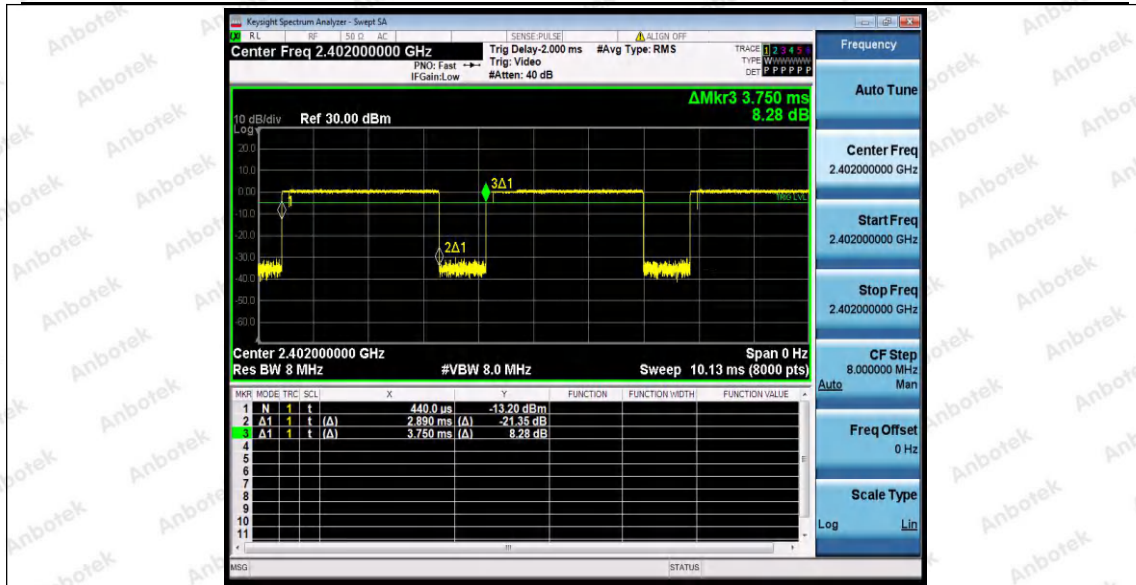
3DH5_Ant1_2402

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