

Appendix Test Data

Report No.:	18220WC20153101	Test Sample No.:	1-2-2
Start Test Date:	2022.7.12	Finish Test Date:	2022.7.19
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
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	1.023	2401.517	2402.540	---	PASS
		2441	1.032	2440.514	2441.546	---	PASS
		2480	1.029	2479.517	2480.546	---	PASS
2DH5	Ant1	2402	1.341	2401.367	2402.708	---	PASS
		2441	1.344	2440.361	2441.705	---	PASS
		2480	1.338	2479.361	2480.699	---	PASS
3DH5	Ant1	2402	1.293	2401.376	2402.669	---	PASS
		2441	1.281	2440.379	2441.660	---	PASS
		2480	1.302	2479.367	2480.669	---	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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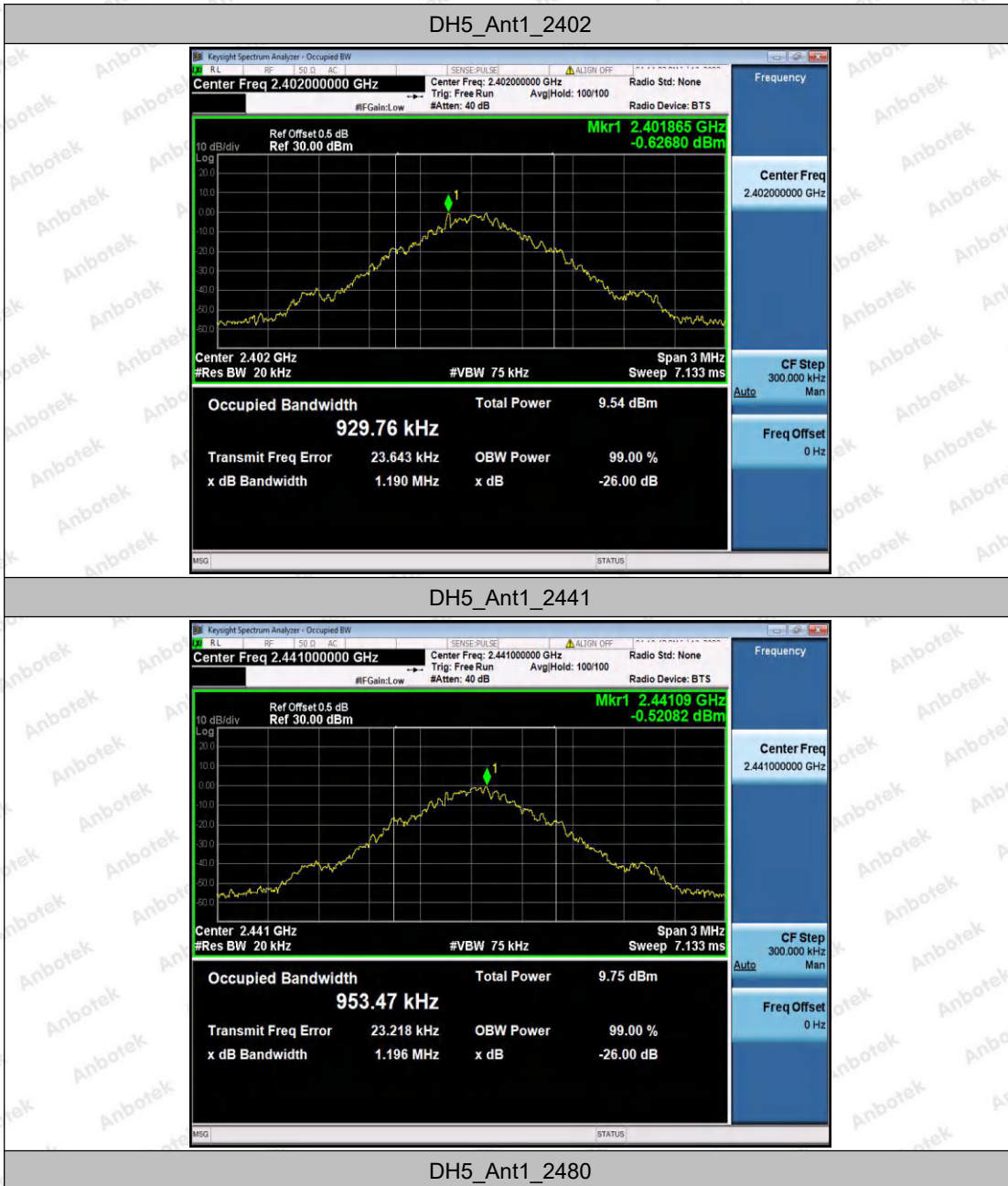
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.92976	2401.55 9	2402.489	---	PASS
		2441	0.95347	2440.54 6	2441.500	---	PASS
		2480	0.96571	2479.54 3	2480.509	---	PASS
2DH5	Ant1	2402	1.2151	2401.42 7	2402.642	---	PASS
		2441	1.2318	2440.41 8	2441.649	---	PASS
		2480	1.2556	2479.40 6	2480.662	---	PASS
3DH5	Ant1	2402	1.2110	2401.42 0	2402.631	---	PASS
		2441	1.2235	2440.41 1	2441.635	---	PASS
		2480	1.2157	2479.41 8	2480.634	---	PASS

Test Graphs





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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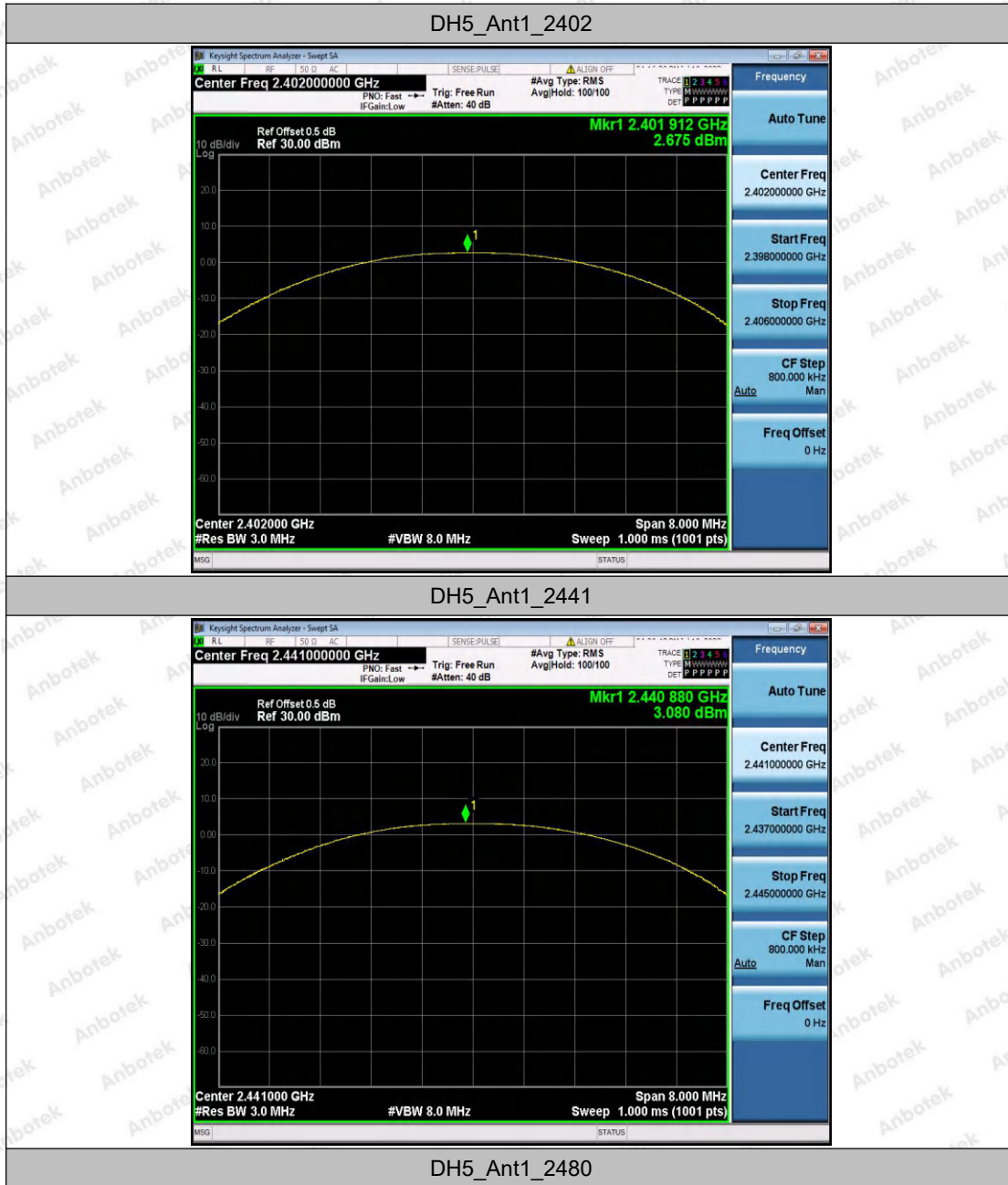
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.68	≤20.97	PASS
		2441	3.08	≤20.97	PASS
		2480	3.1	≤20.97	PASS
2DH5	Ant1	2402	3.43	≤20.97	PASS
		2441	3.71	≤20.97	PASS
		2480	3.67	≤20.97	PASS
3DH5	Ant1	2402	3.79	≤20.97	PASS
		2441	4.05	≤20.97	PASS
		2480	3.95	≤20.97	PASS

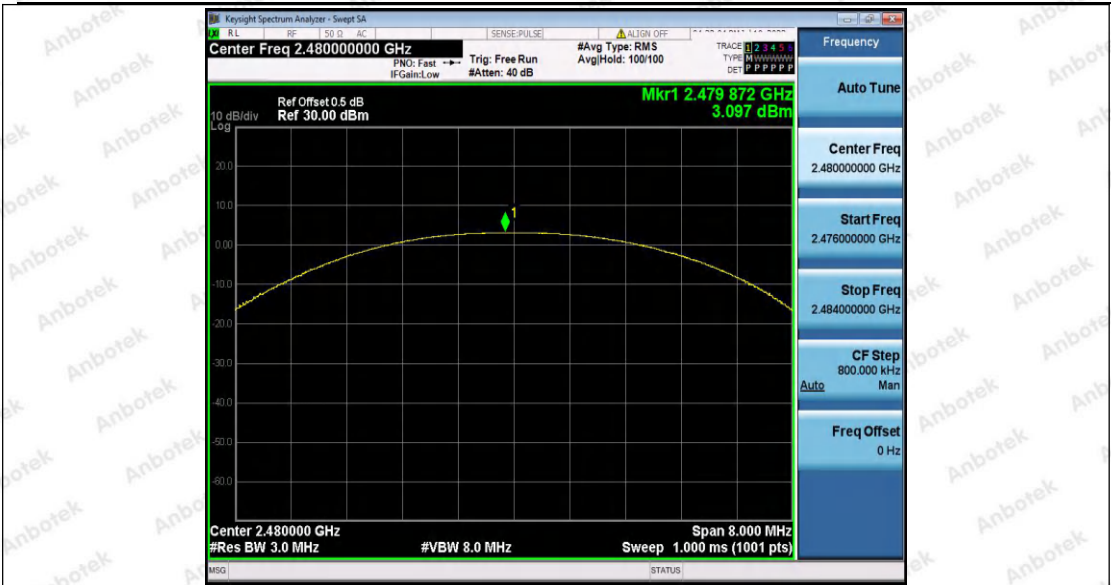
Test Graphs



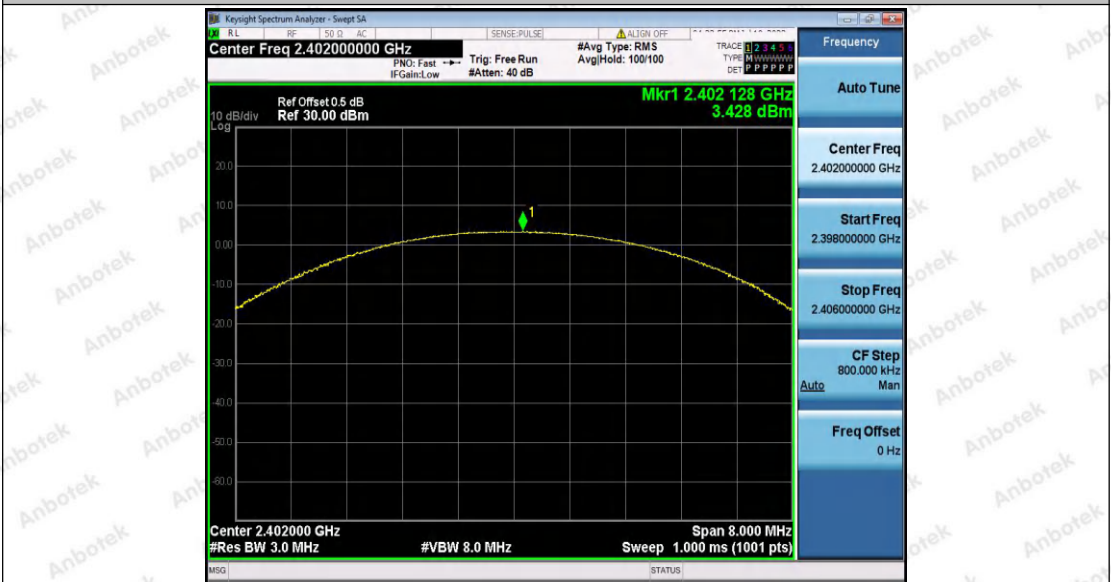
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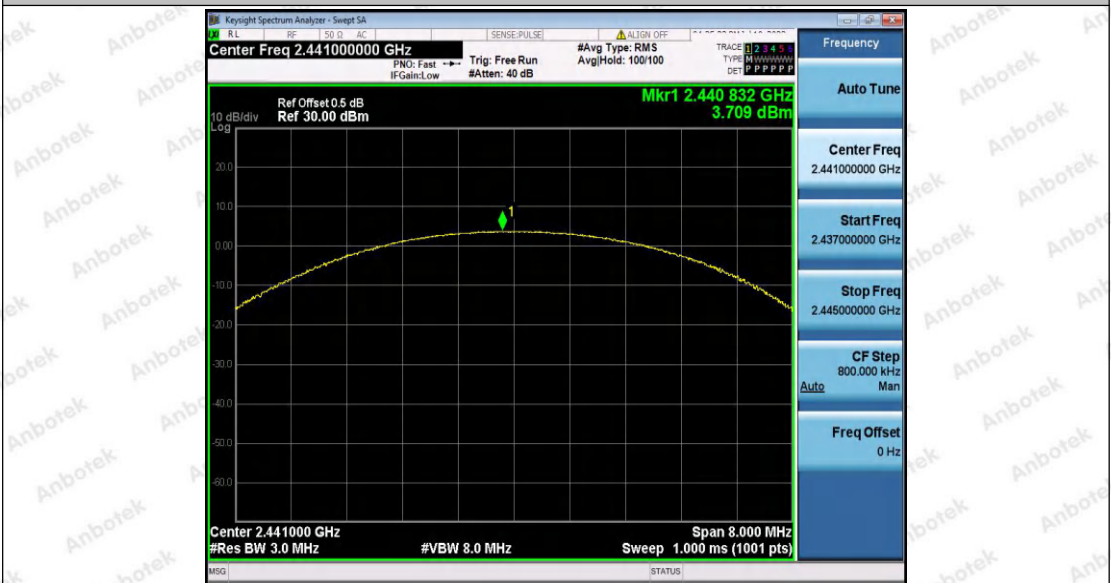
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2DH5_Ant1_2402



2DH5_Ant1_2441

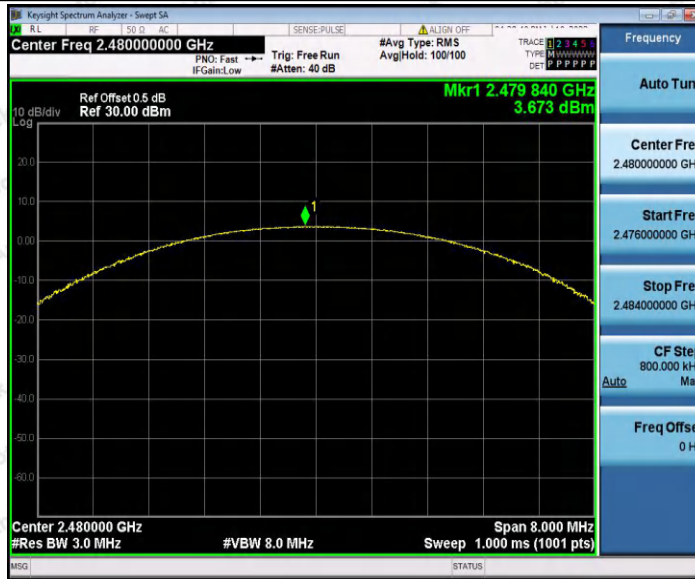


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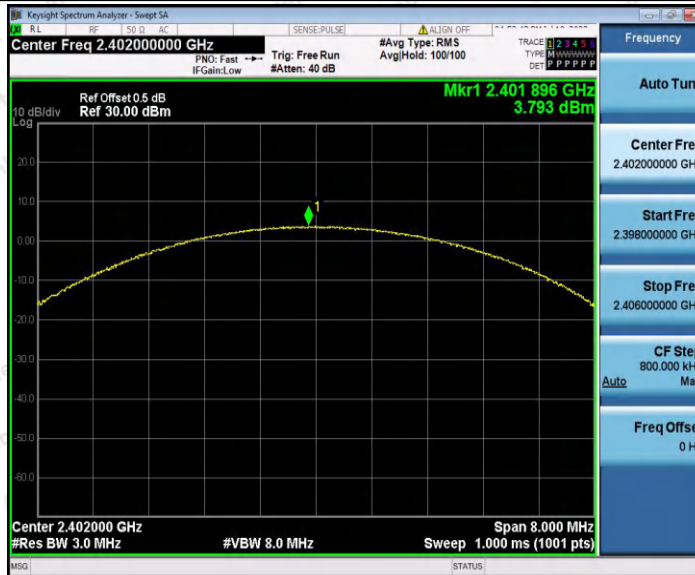
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2DH5_Ant1_2480



3DH5_Ant1_2402

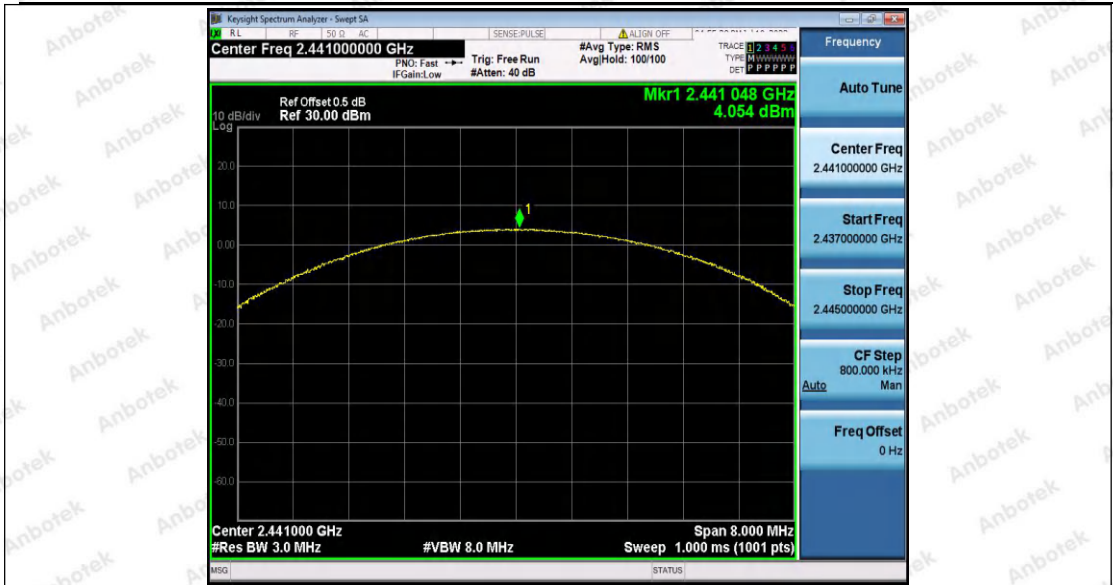


3DH5_Ant1_2441

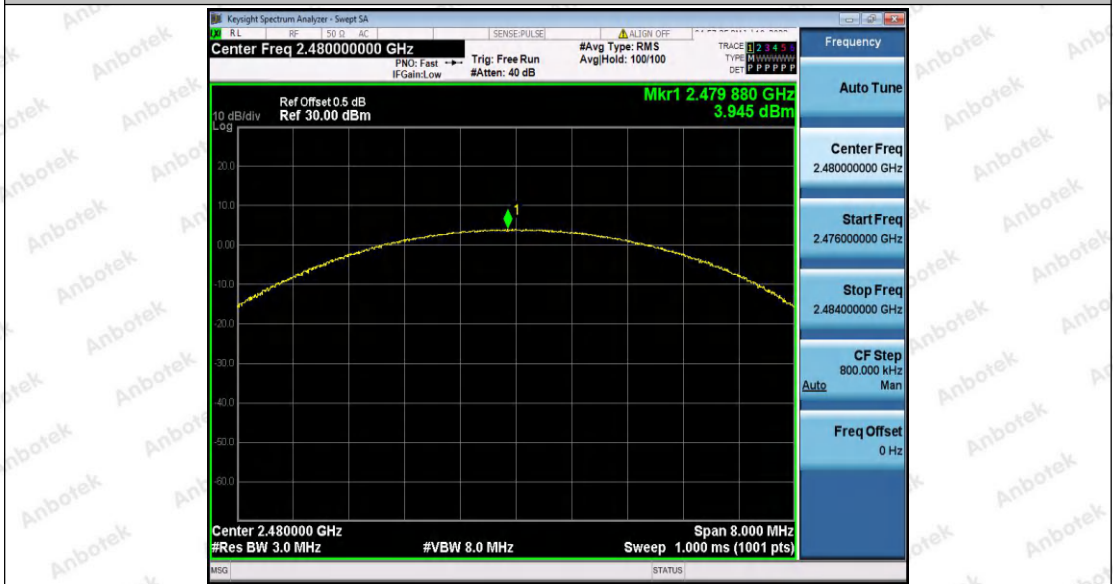
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.162	≥ 1.032	PASS
2DH5	Ant1	Hop	1.002	≥ 0.896	PASS
3DH5	Ant1	Hop	1.026	≥ 0.868	PASS

Test Graphs





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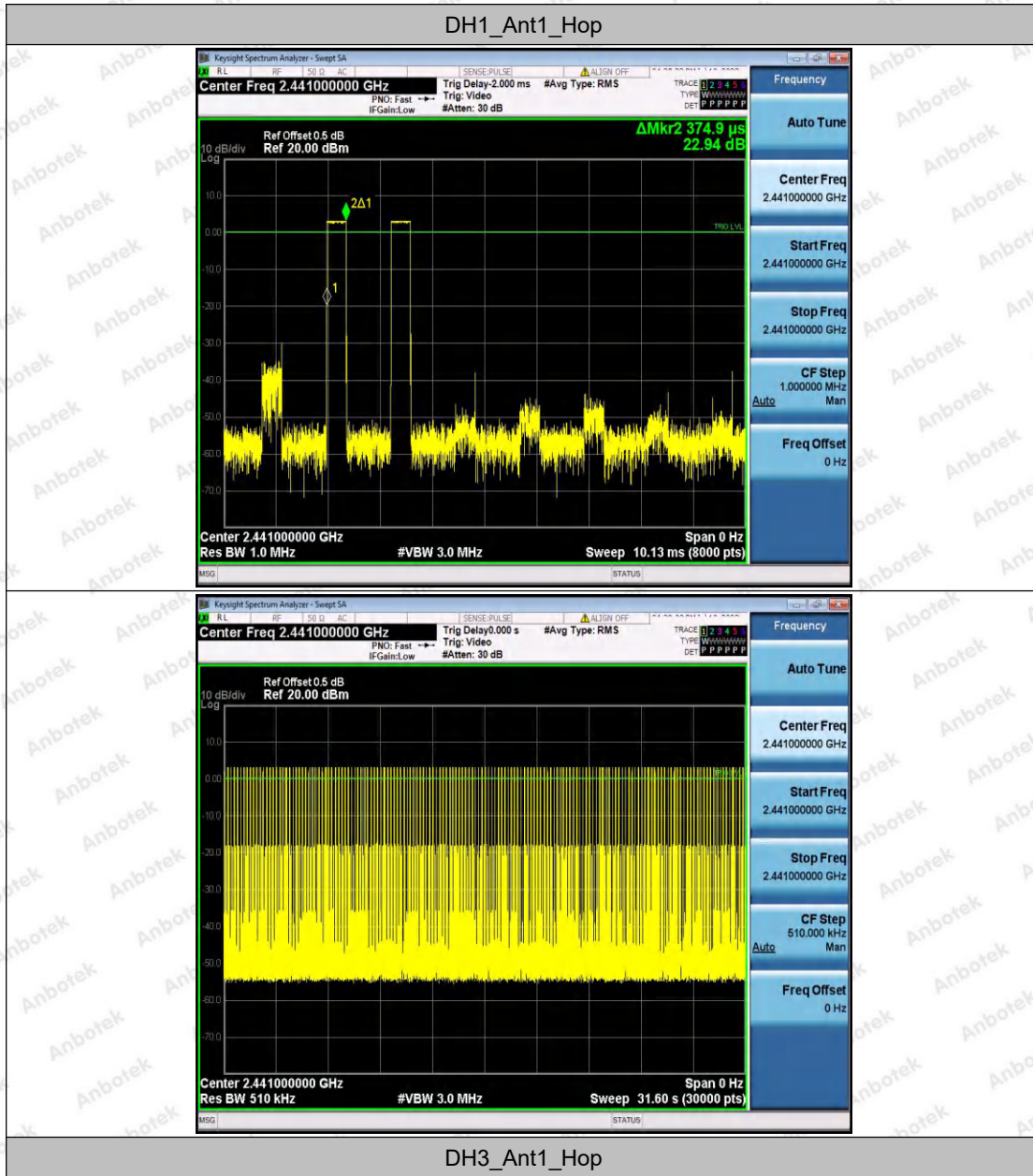
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	319	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	167	0.272	≤0.4	PASS
DH5	Ant1	Hop	2.88	96	0.276	≤0.4	PASS
2DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.39	318	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.64	162	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.89	102	0.294	≤0.4	PASS

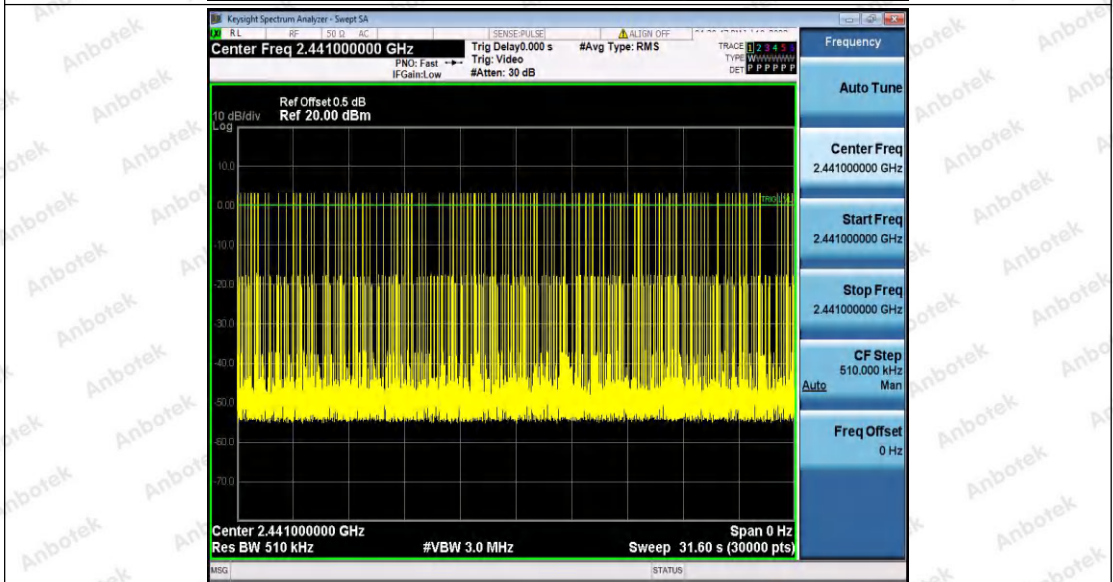
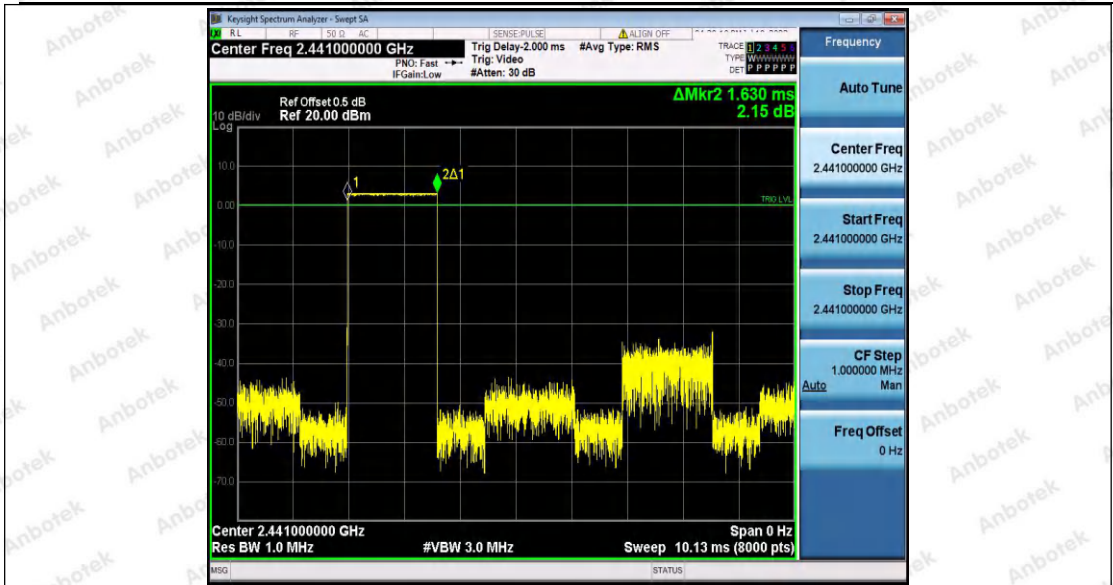
Test Graphs



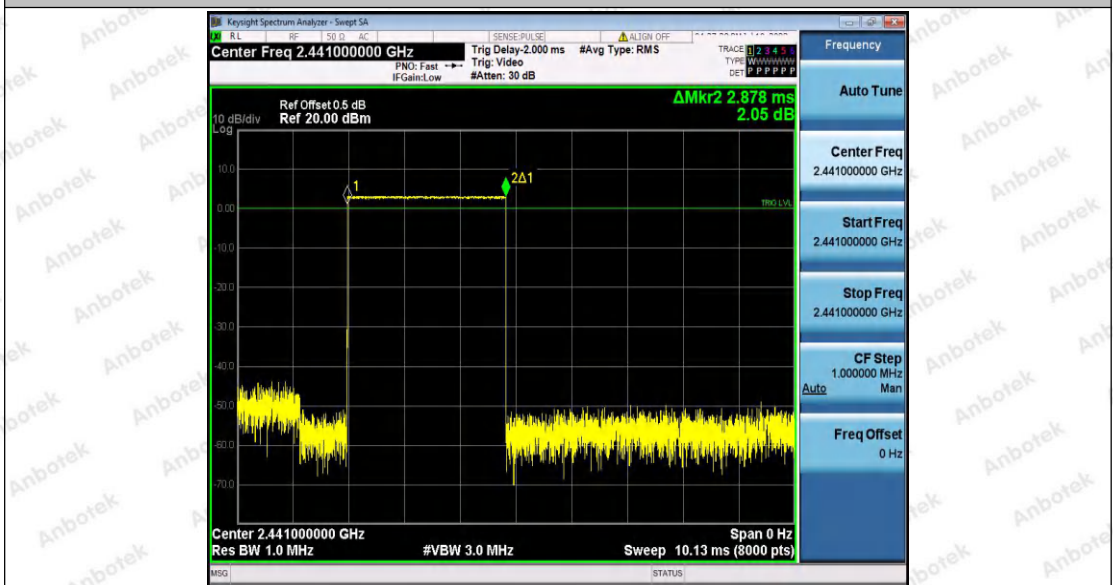
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DH5_Ant1_Hop

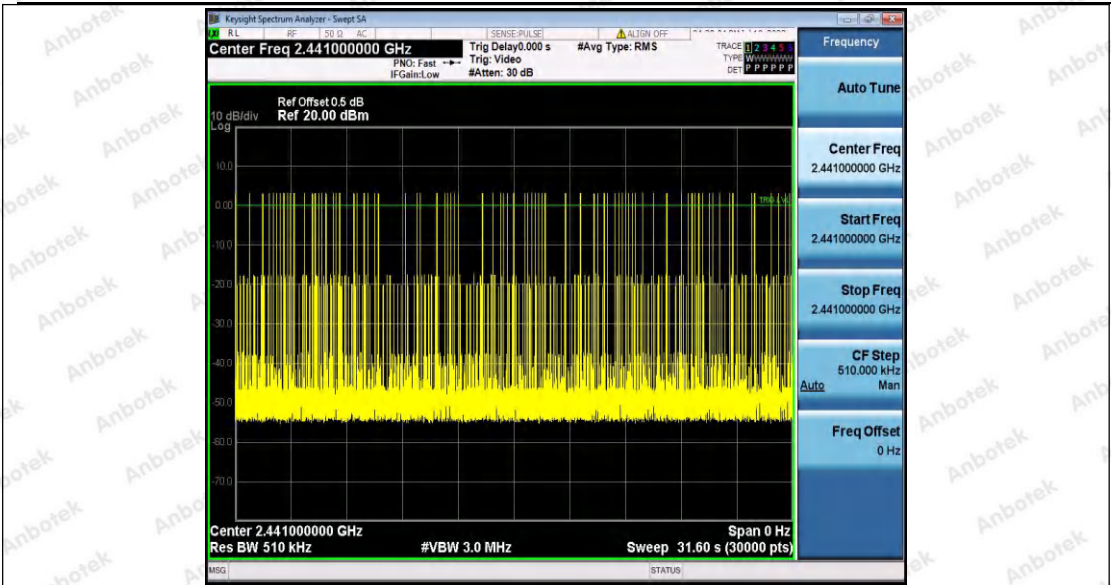


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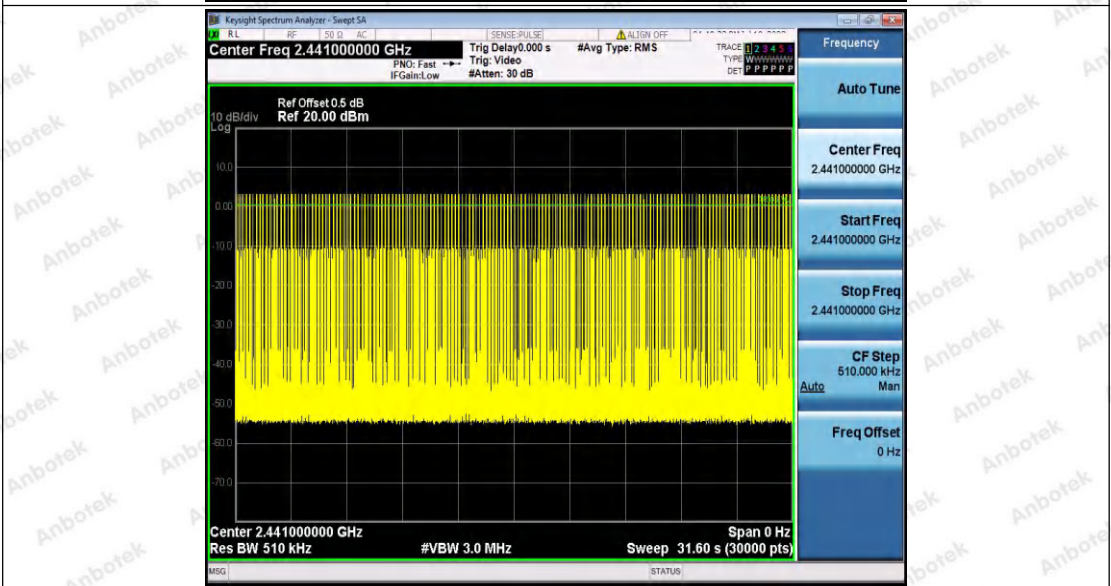
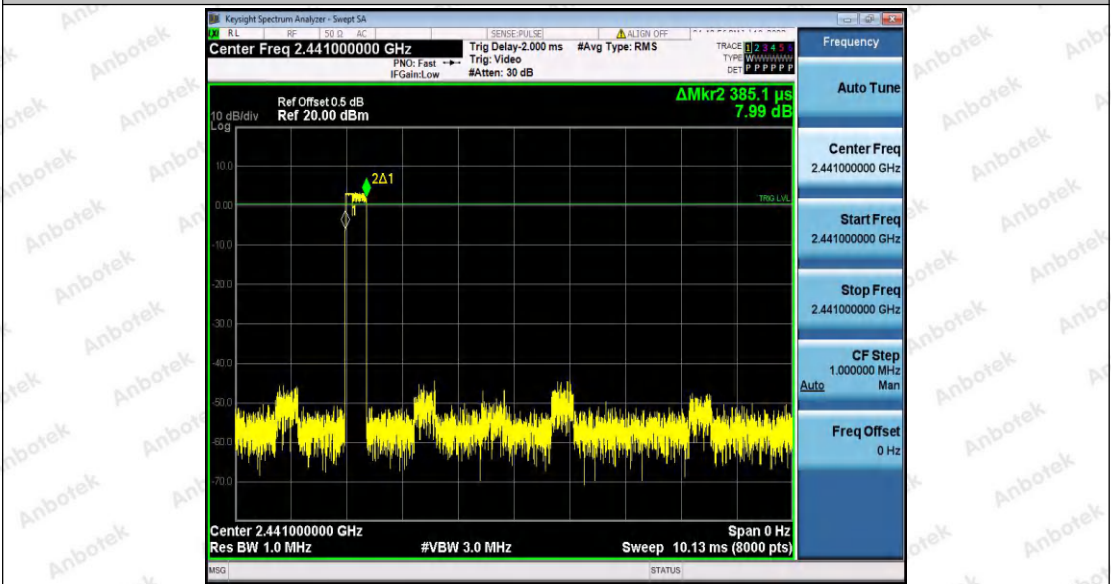
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2DH1_Ant1_Hop



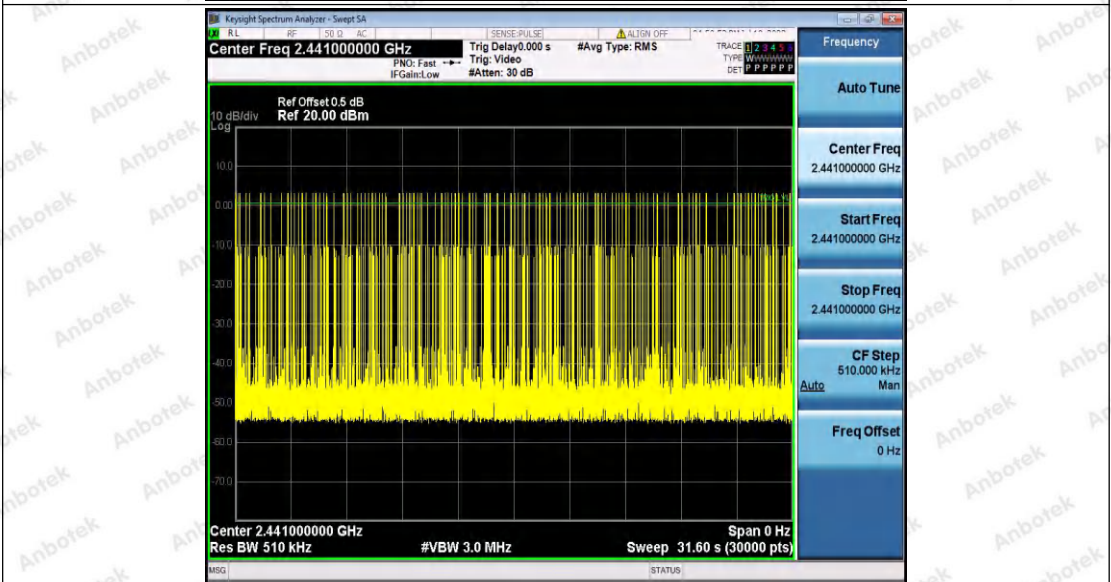
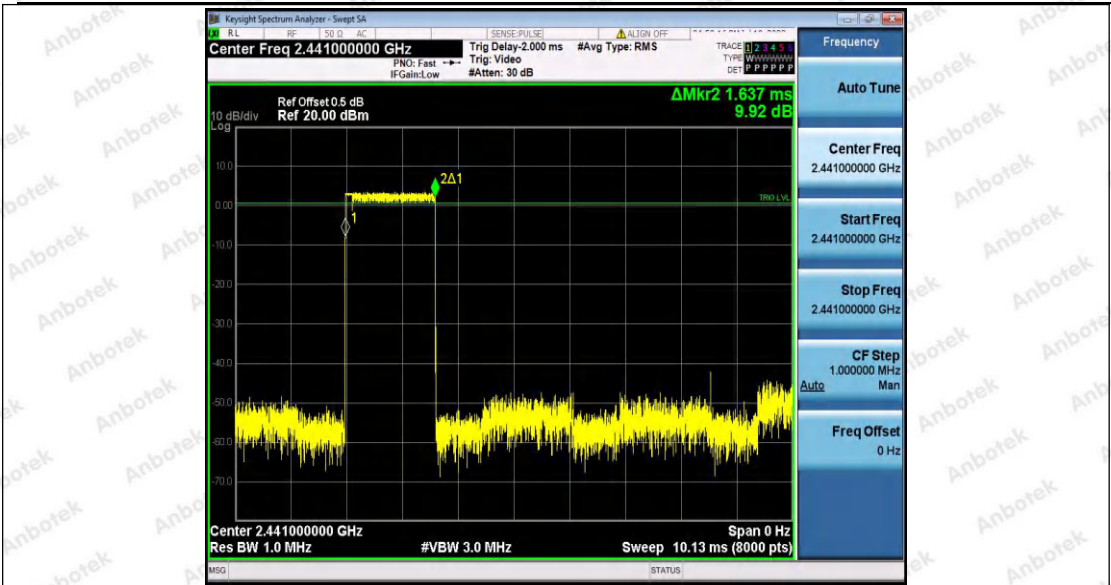
2DH3_Ant1_Hop

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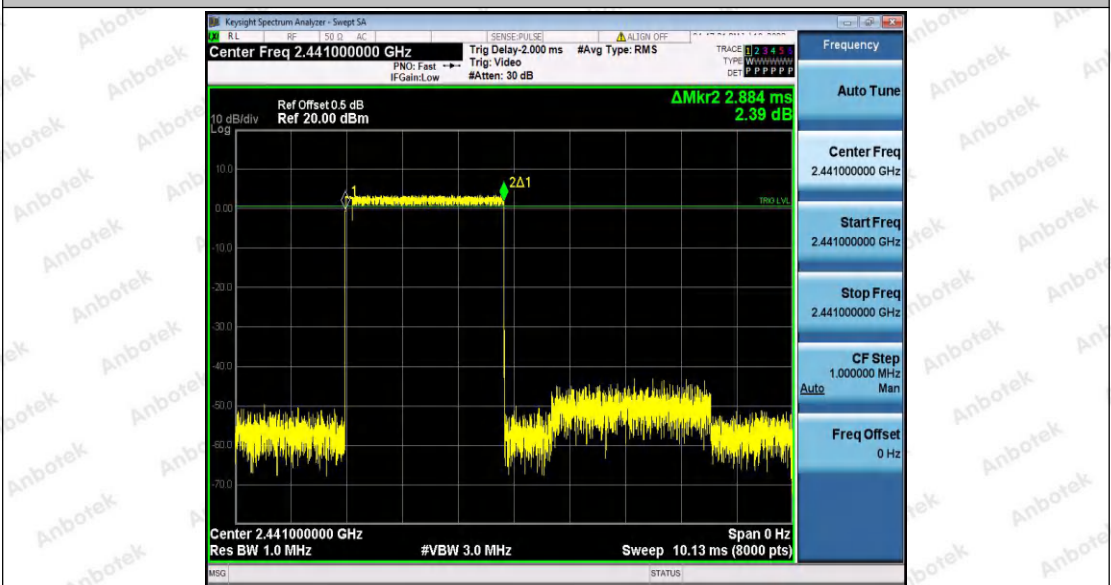
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2DH5_Ant1_Hop

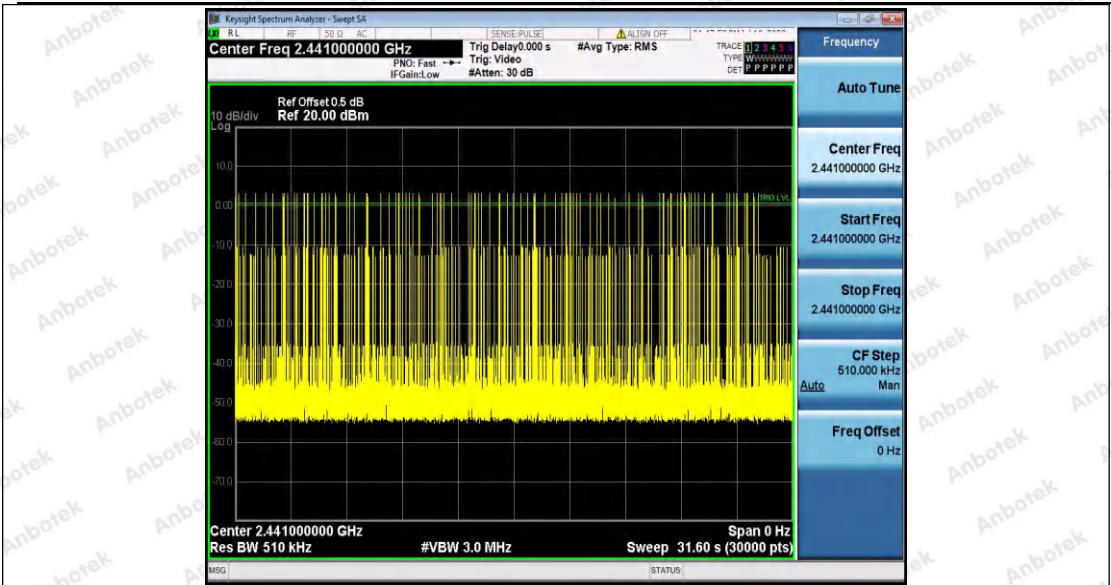


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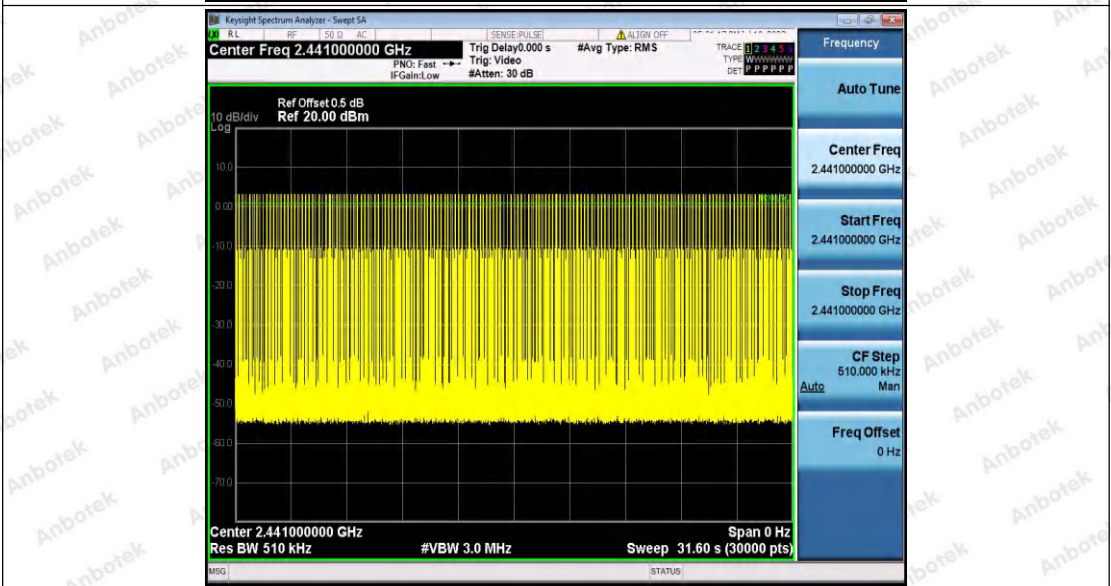
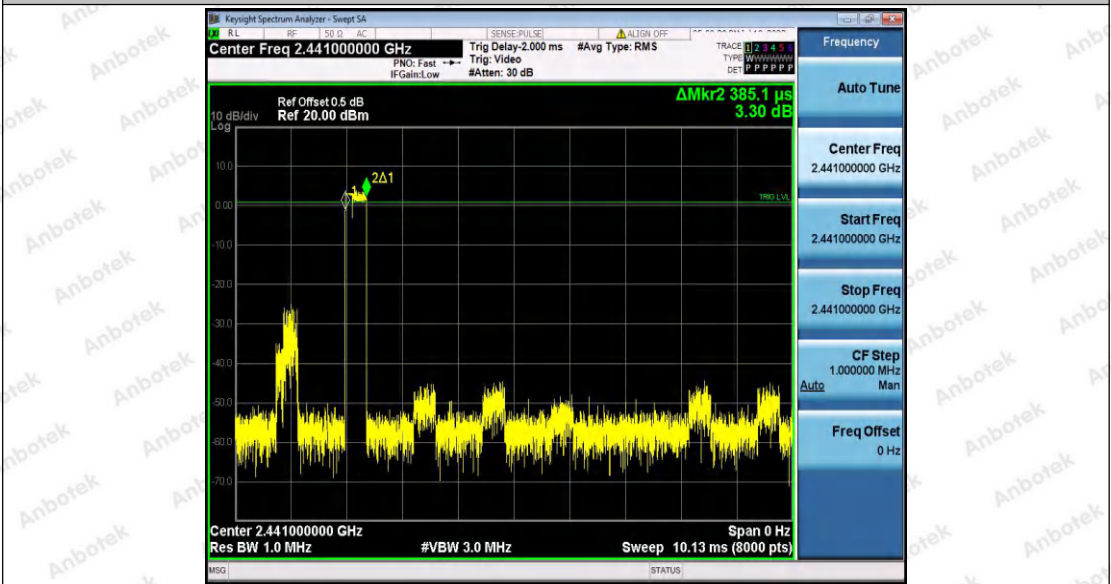
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3DH1_Ant1_Hop



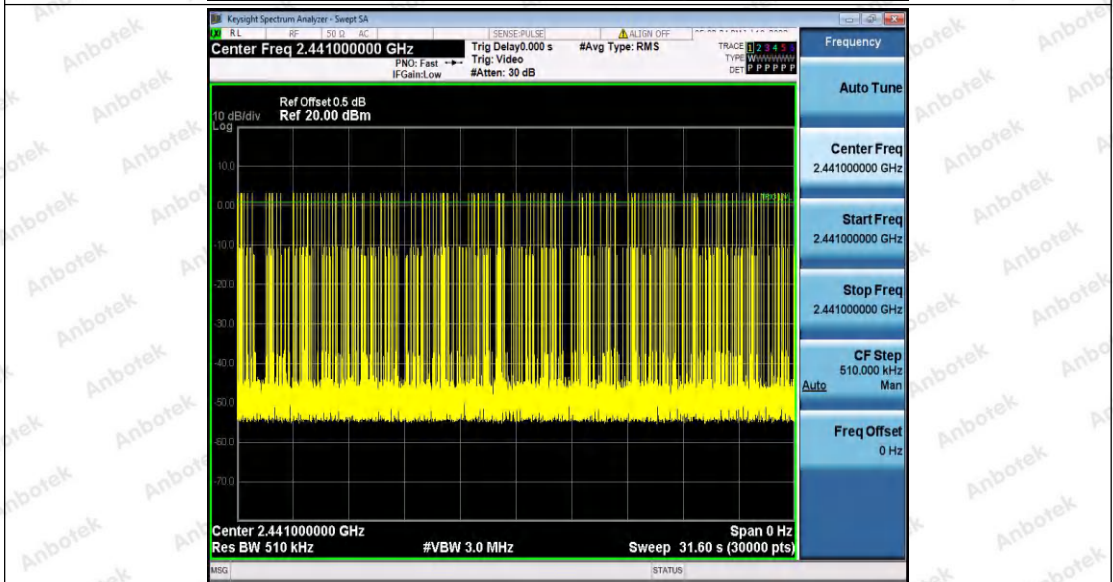
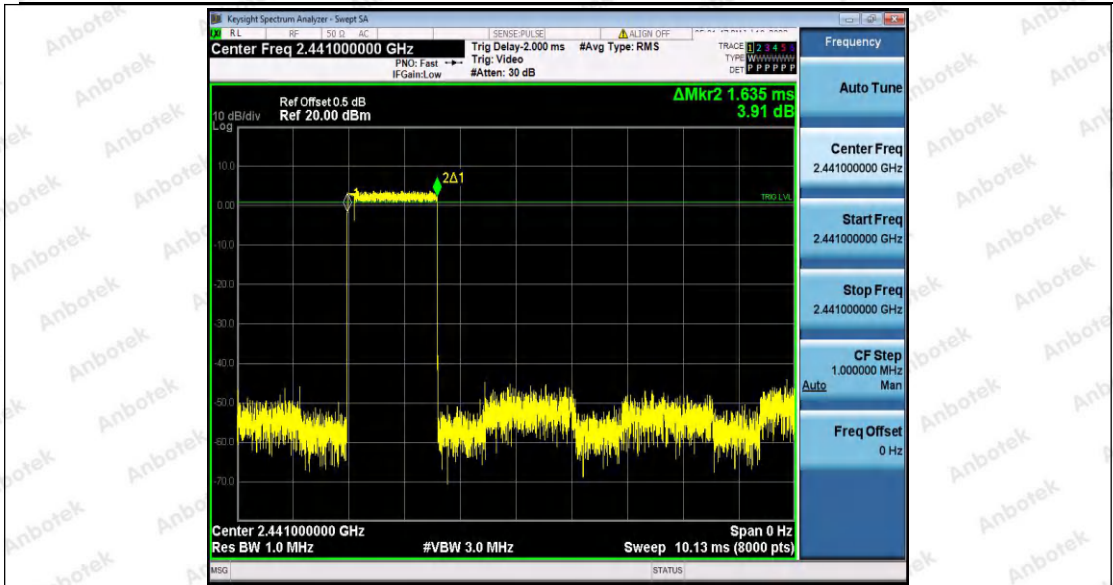
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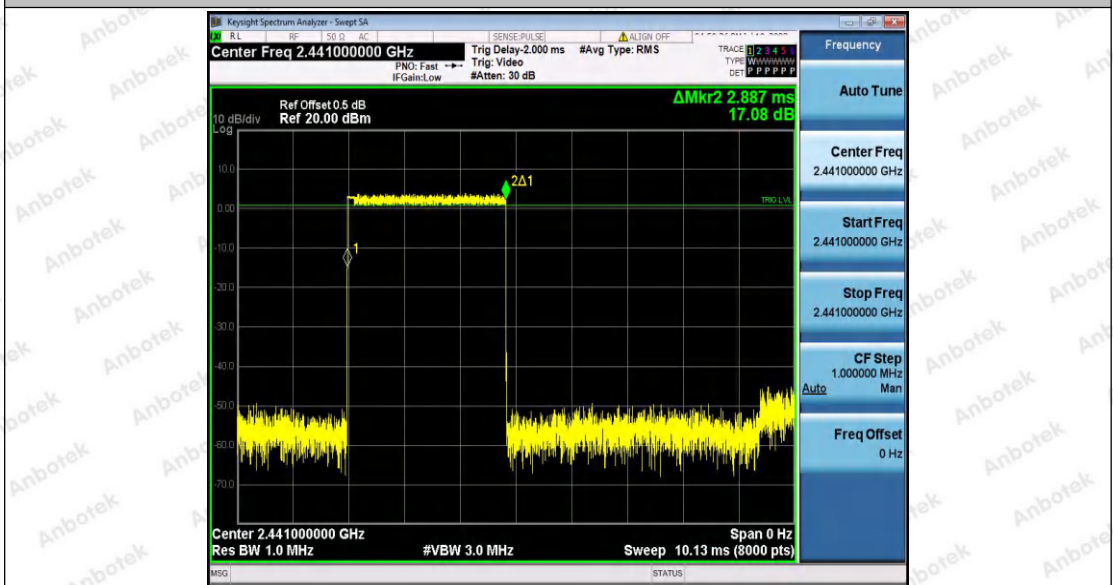
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3DH5_Ant1_Hop

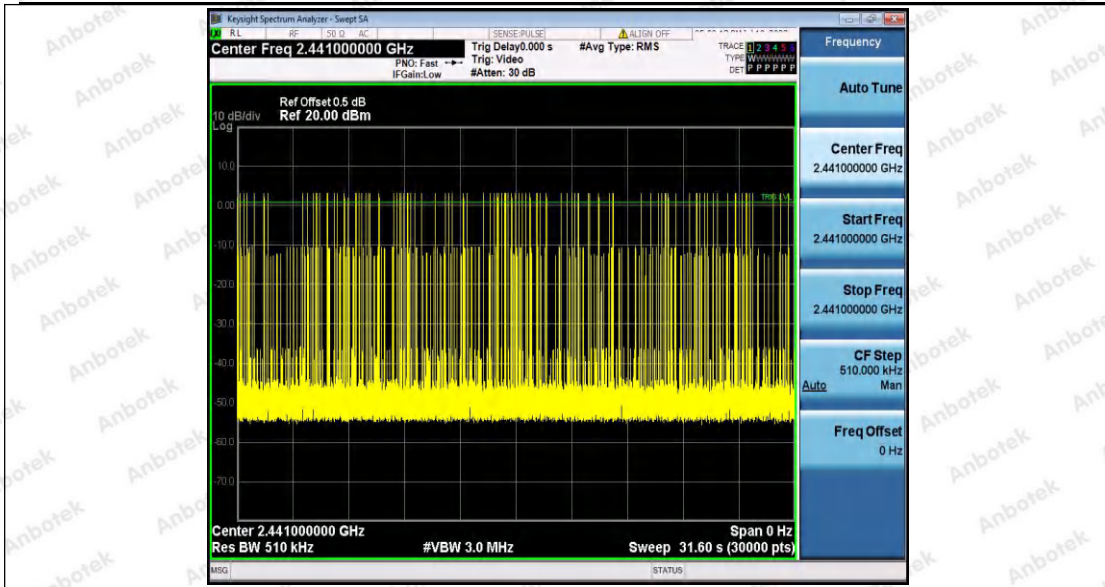


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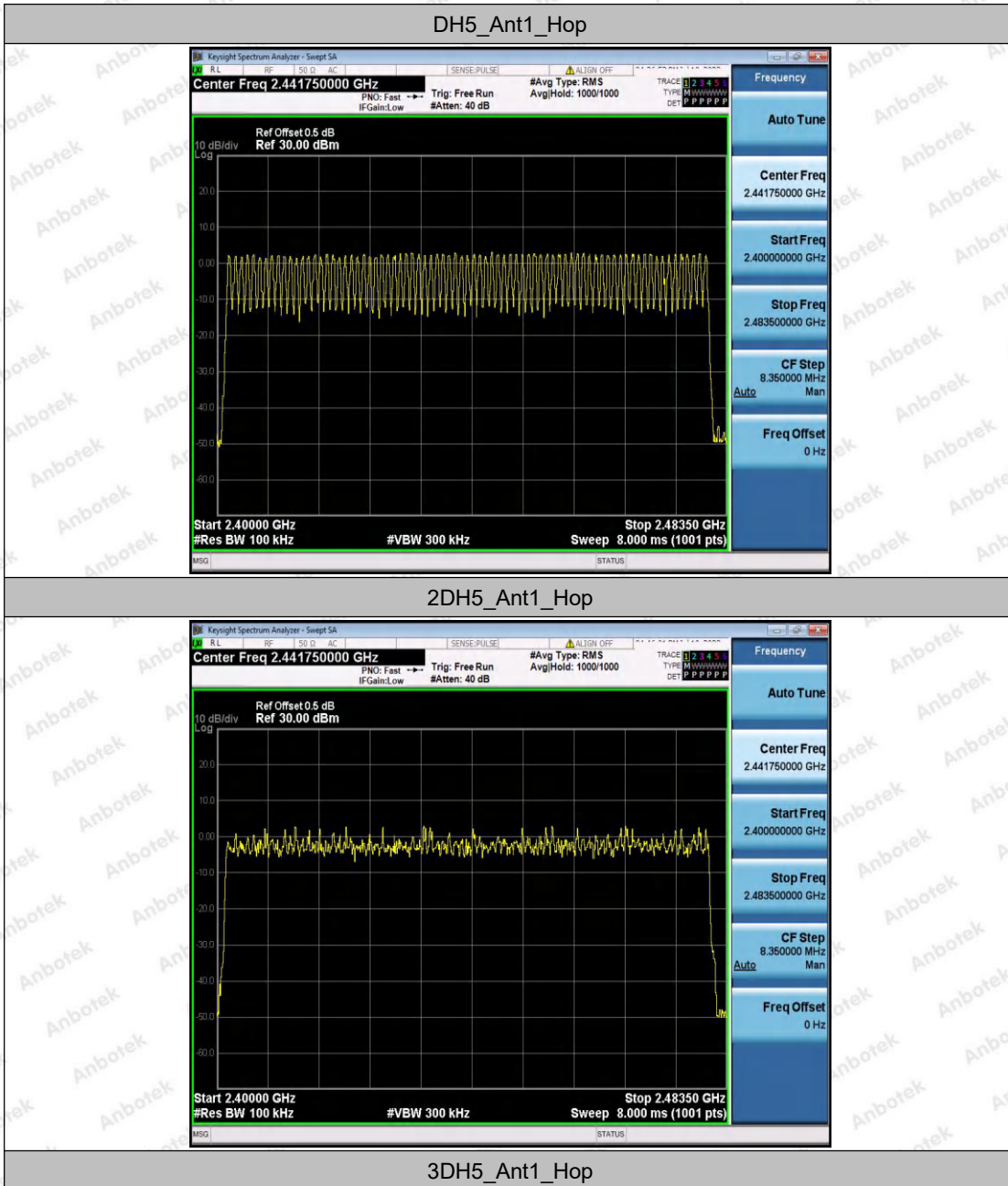
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Appendix F: Number of hopping channels

Test Result

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

Test Graphs

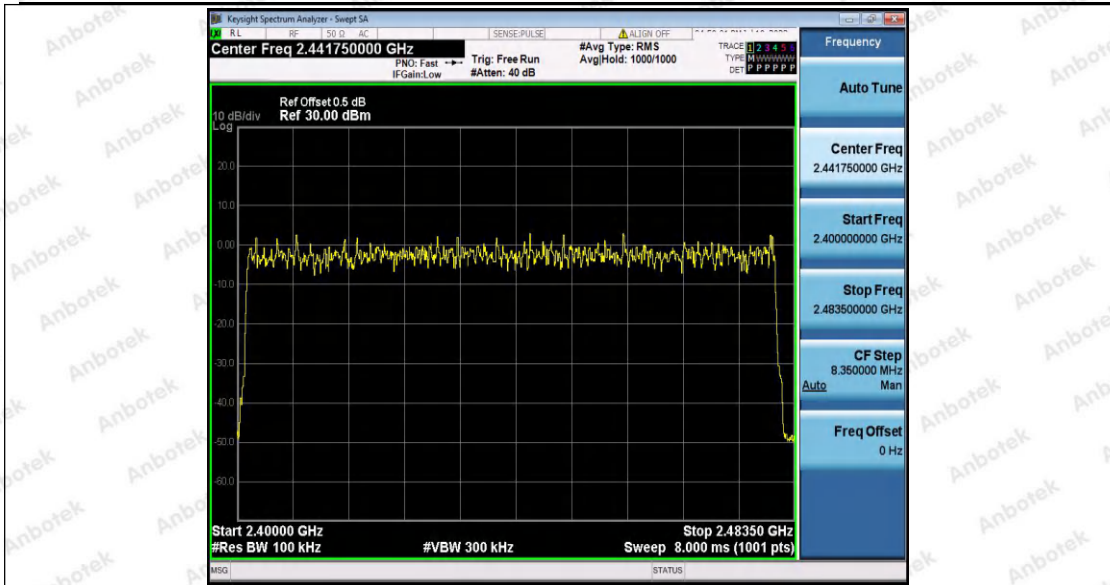


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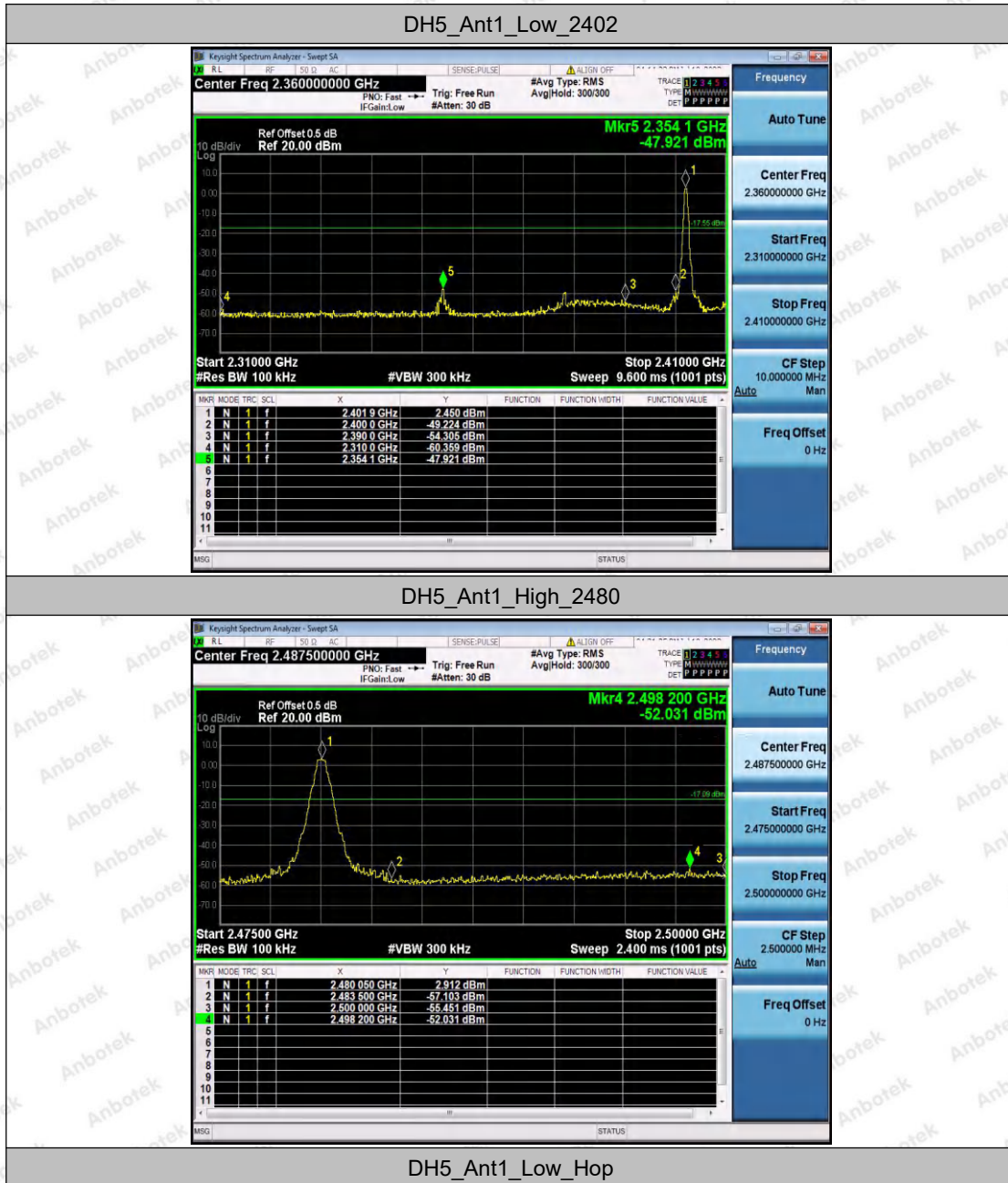
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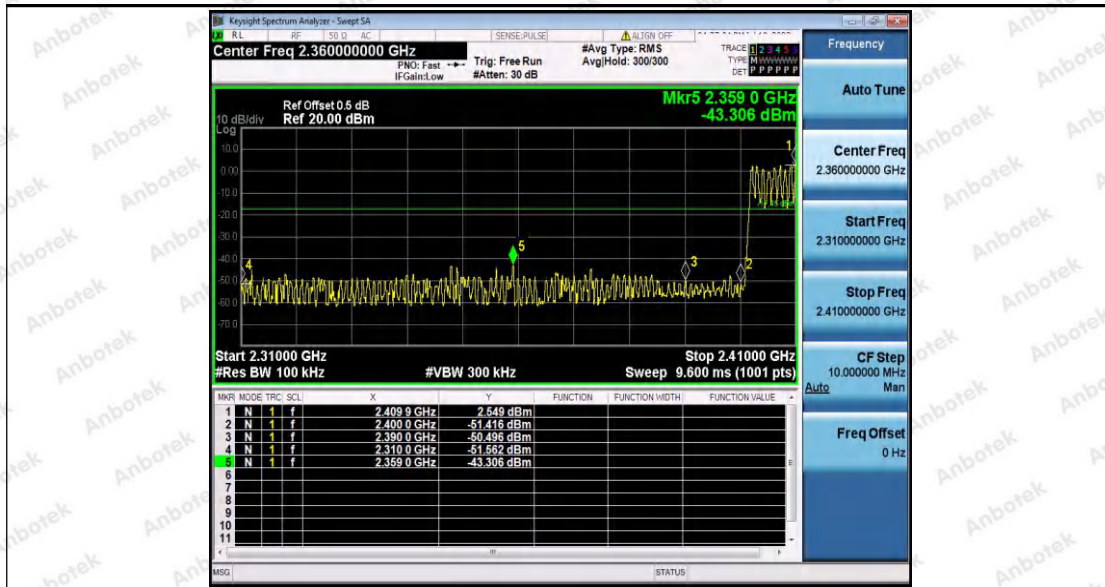
Appendix G: Band edge measurements

Test Result

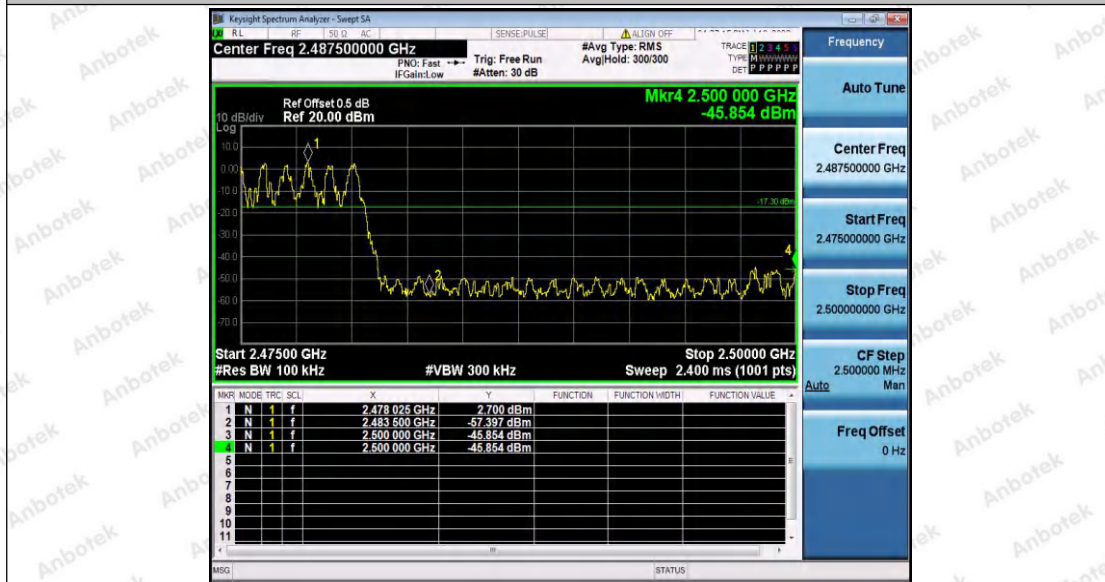
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.45	-47.92	≤-17.55	PASS
		High	2480	2.91	-52.03	≤-17.09	PASS
		Low	Hop	2.55	-43.31	≤-17.45	PASS
		High	Hop	2.70	-45.85	≤-17.3	PASS
2DH5	Ant1	Low	2402	2.50	-50.46	≤-17.5	PASS
		High	2480	2.73	-52.14	≤-17.27	PASS
		Low	Hop	-1.92	-44.45	≤-21.92	PASS
		High	Hop	-0.87	-50.5	≤-20.87	PASS
3DH5	Ant1	Low	2402	2.58	-50.61	≤-17.42	PASS
		High	2480	2.84	-51.9	≤-17.16	PASS
		Low	Hop	-0.02	-46.26	≤-20.02	PASS
		High	Hop	2.74	-49.86	≤-17.26	PASS

Test Graphs

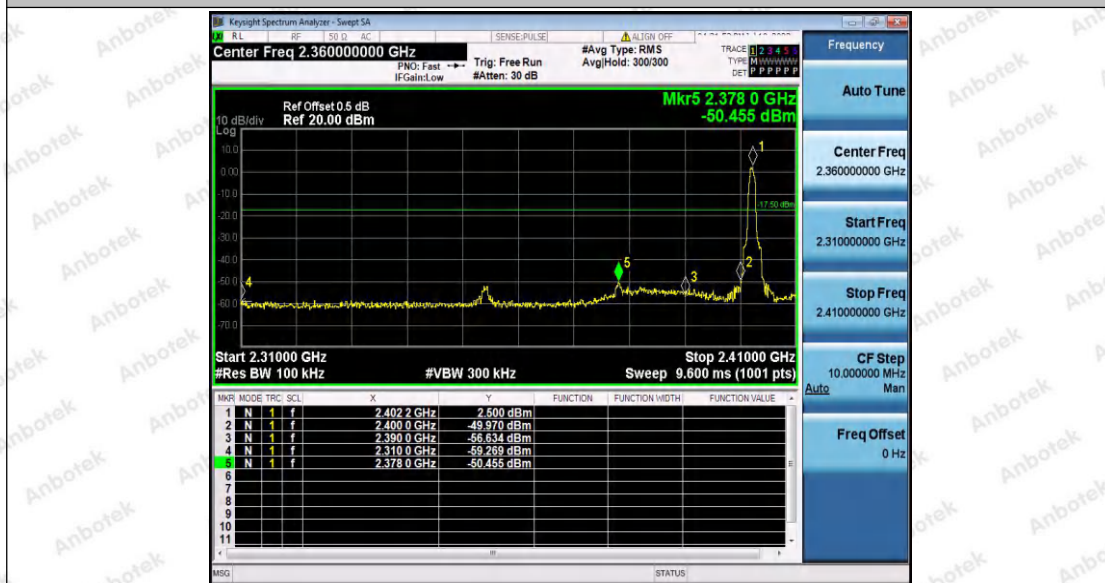




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



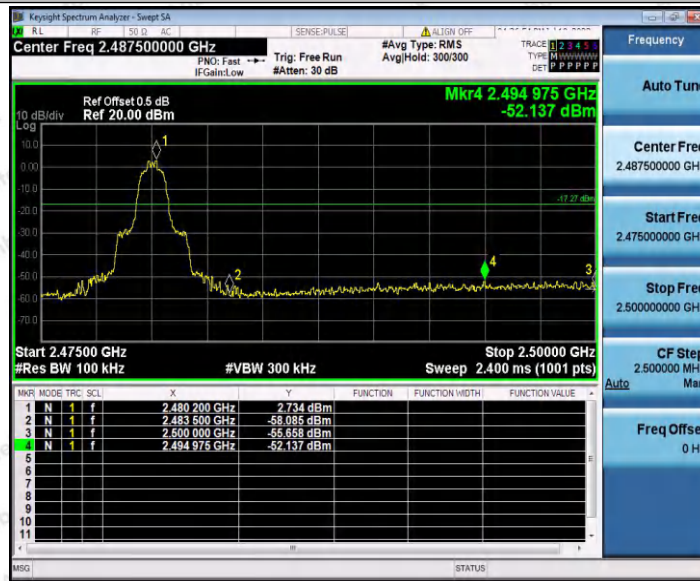
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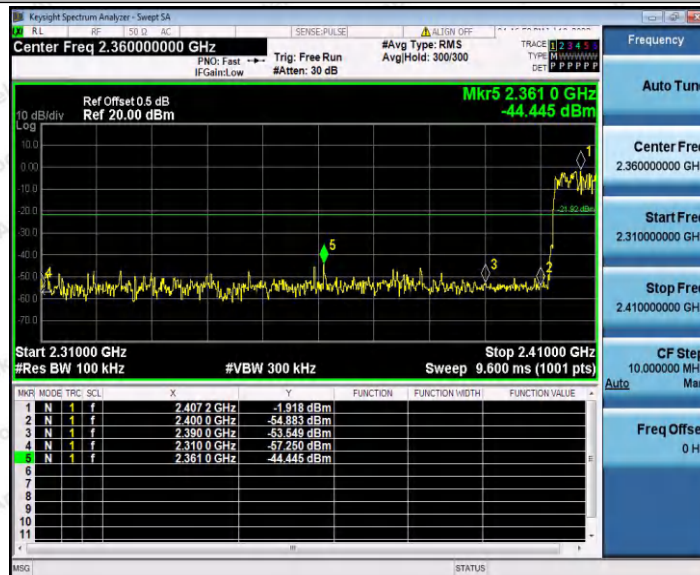
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



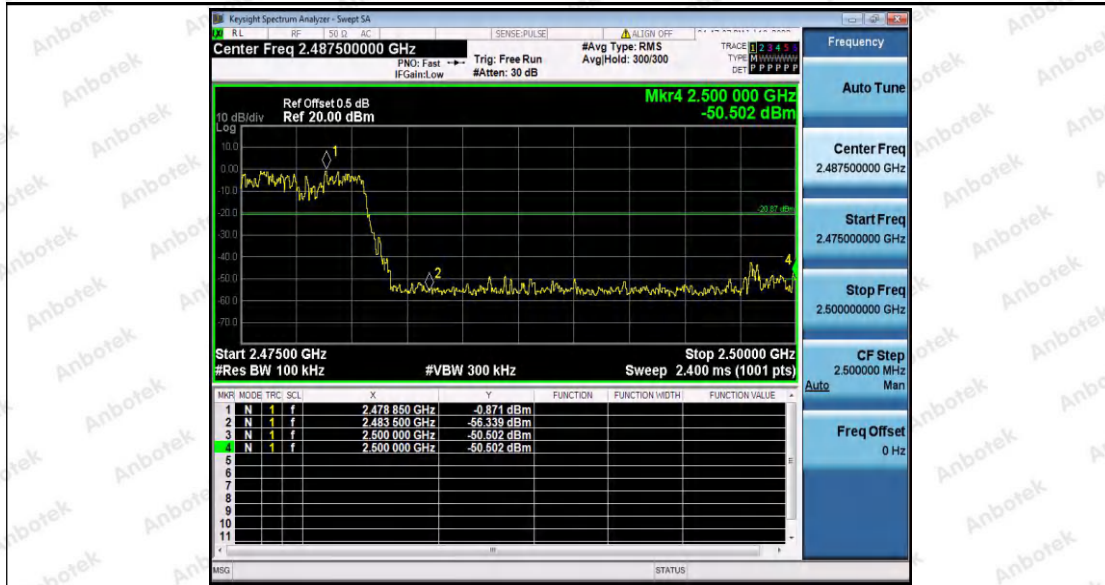
2DH5_Ant1_High_Hop

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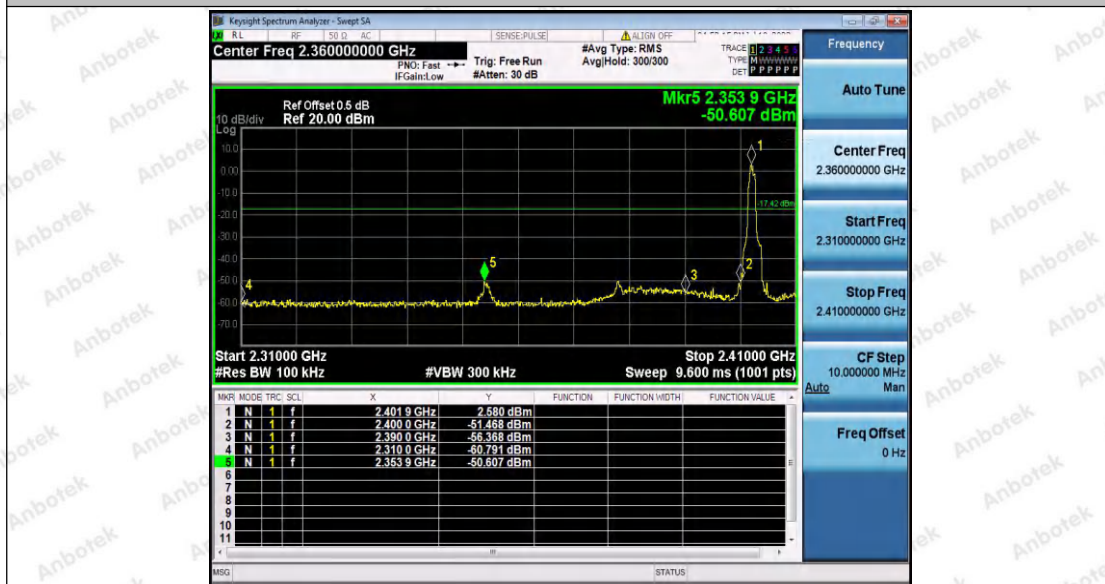
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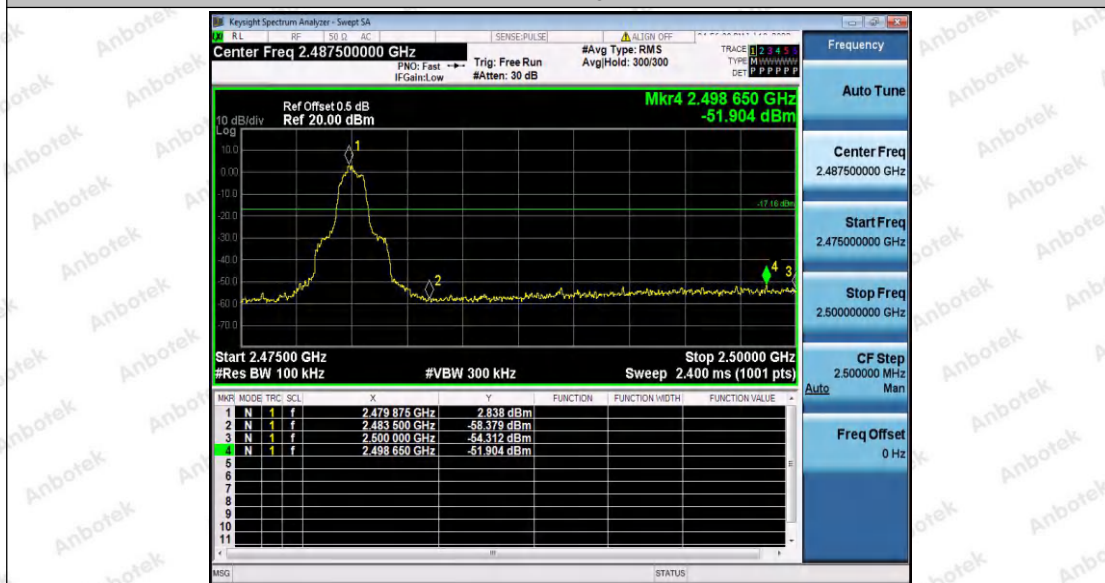
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



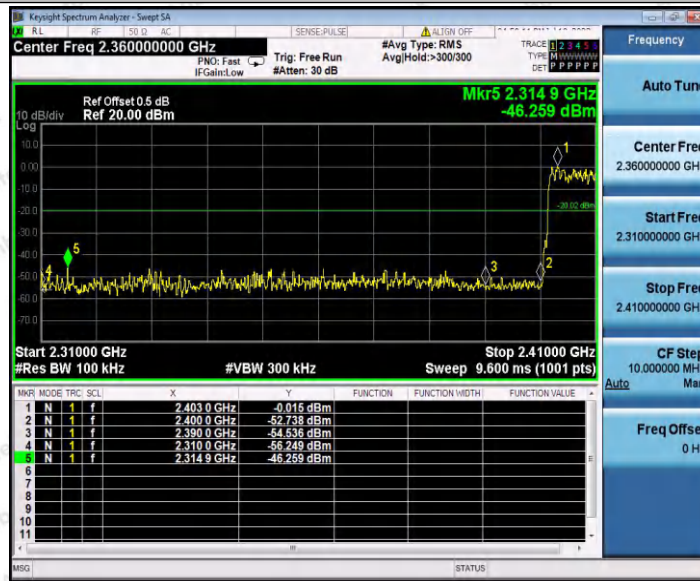
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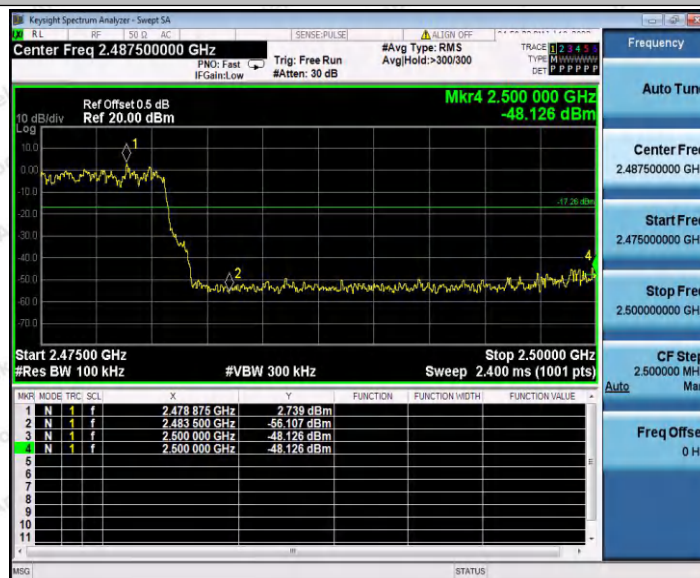
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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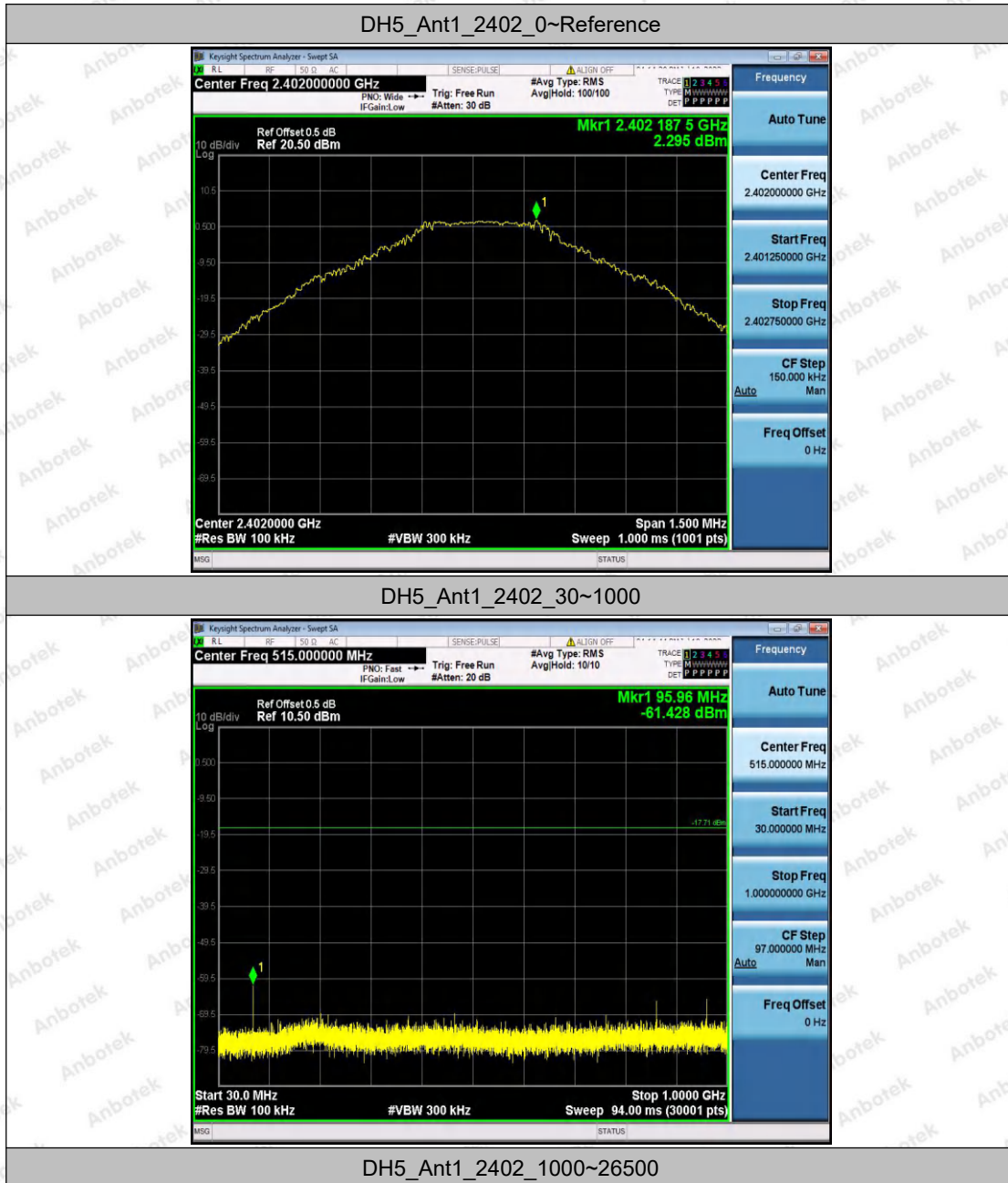
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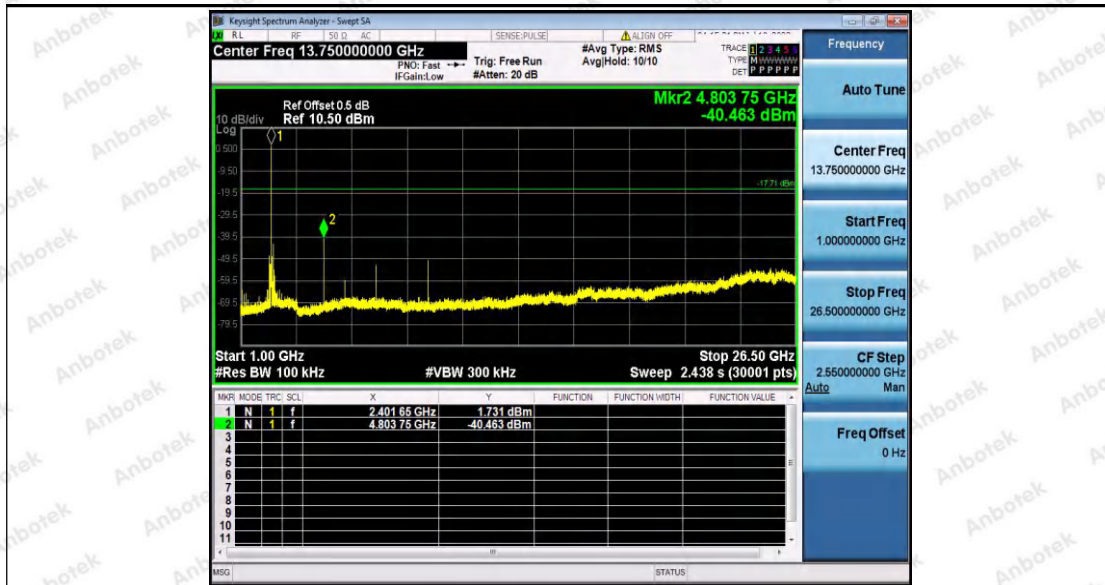
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-61.43	≤-17.71	PASS
			1000~26500	2.30	-40.46	≤-17.71	PASS
		2441	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-63.98	≤-17.5	PASS
			1000~26500	2.50	-40.77	≤-17.5	PASS
		2480	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-64.85	≤-17.23	PASS
			1000~26500	2.77	-36.87	≤-17.23	PASS
2DH5	Ant1	2402	Reference	2.23	2.23	---	PASS
			30~1000	2.23	-64.45	≤-17.77	PASS
			1000~26500	2.23	-43.72	≤-17.77	PASS
		2441	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-63.86	≤-17.44	PASS
			1000~26500	2.56	-40.26	≤-17.44	PASS
		2480	Reference	2.79	2.79	---	PASS
			30~1000	2.79	-64.42	≤-17.21	PASS
			1000~26500	2.79	-41.31	≤-17.21	PASS
3DH5	Ant1	2402	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-65.75	≤-17.74	PASS
			1000~26500	2.26	-44.61	≤-17.74	PASS
		2441	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-63.77	≤-17.36	PASS
			1000~26500	2.64	-38.78	≤-17.36	PASS
		2480	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-64.22	≤-17.36	PASS
			1000~26500	2.64	-41.59	≤-17.36	PASS

Test Graphs

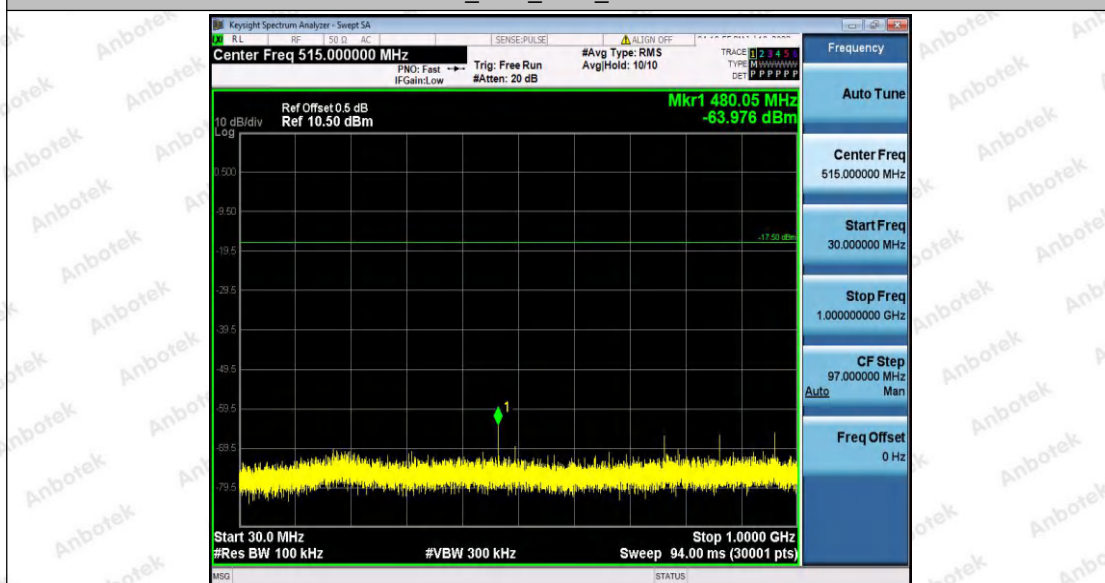




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

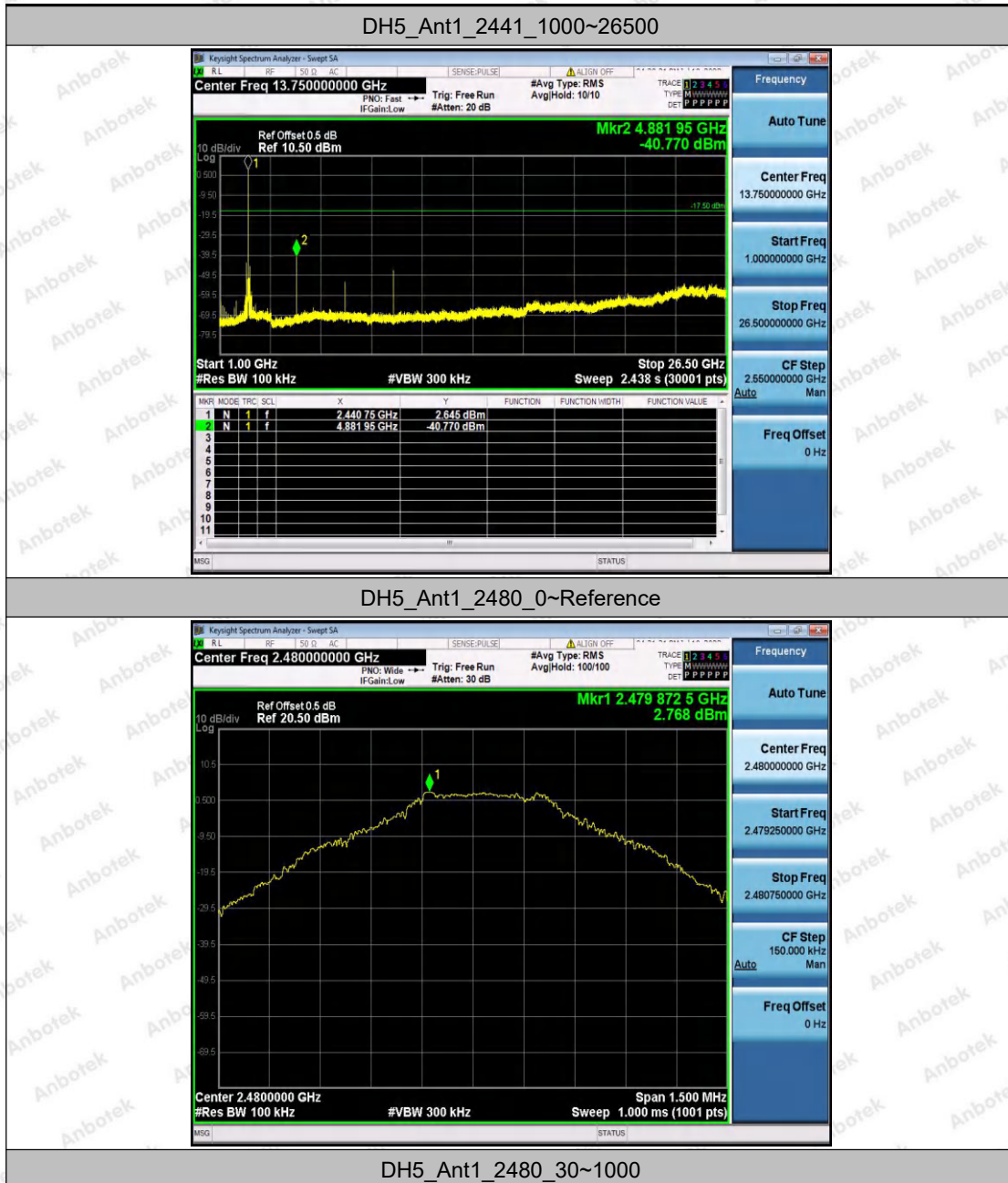


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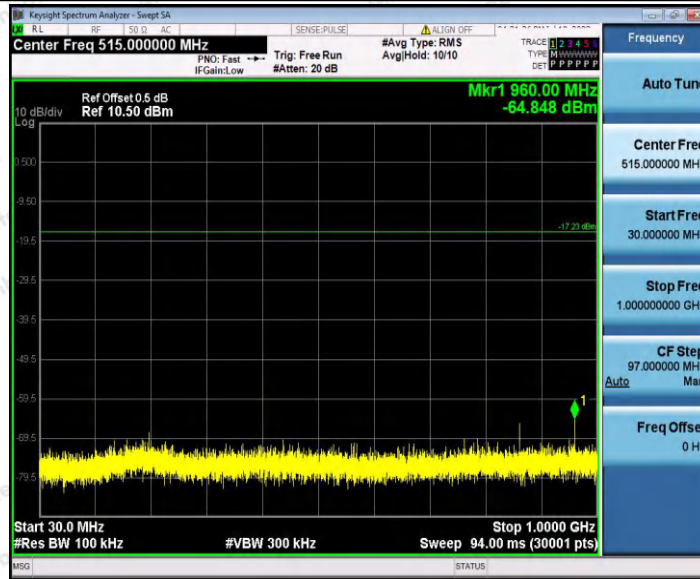


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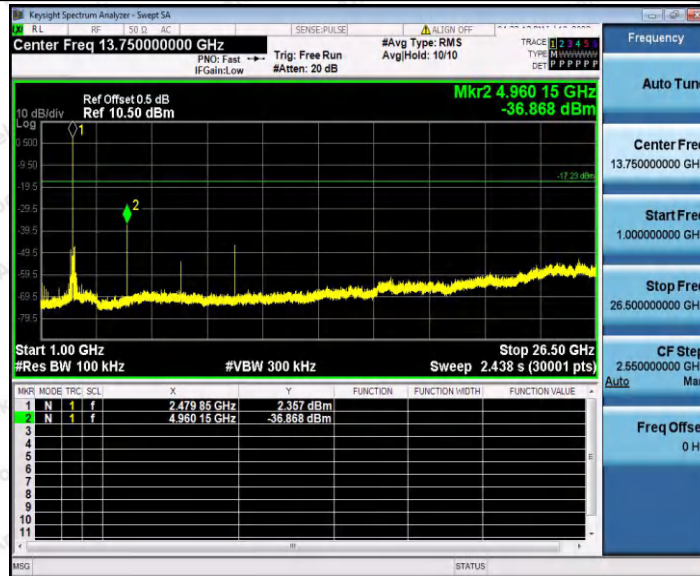
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DH5_Ant1_2480_1000~26500



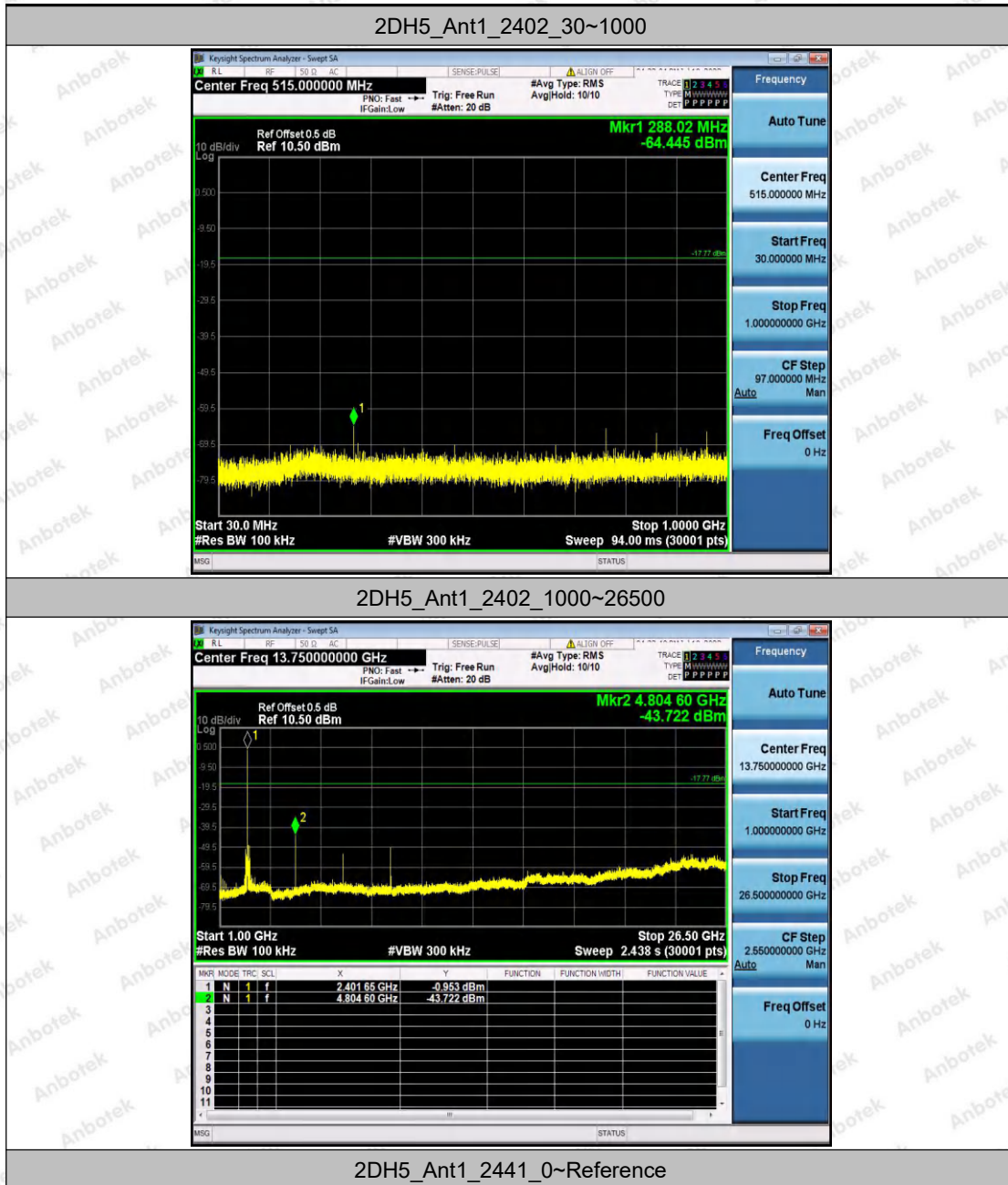
2DH5_Ant1_2402_0~Reference



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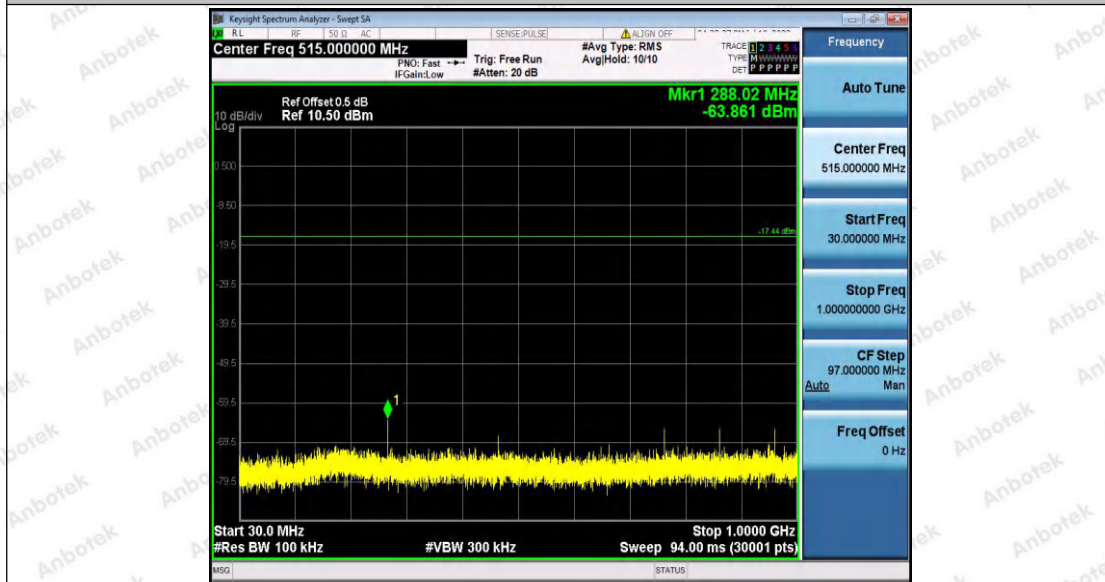
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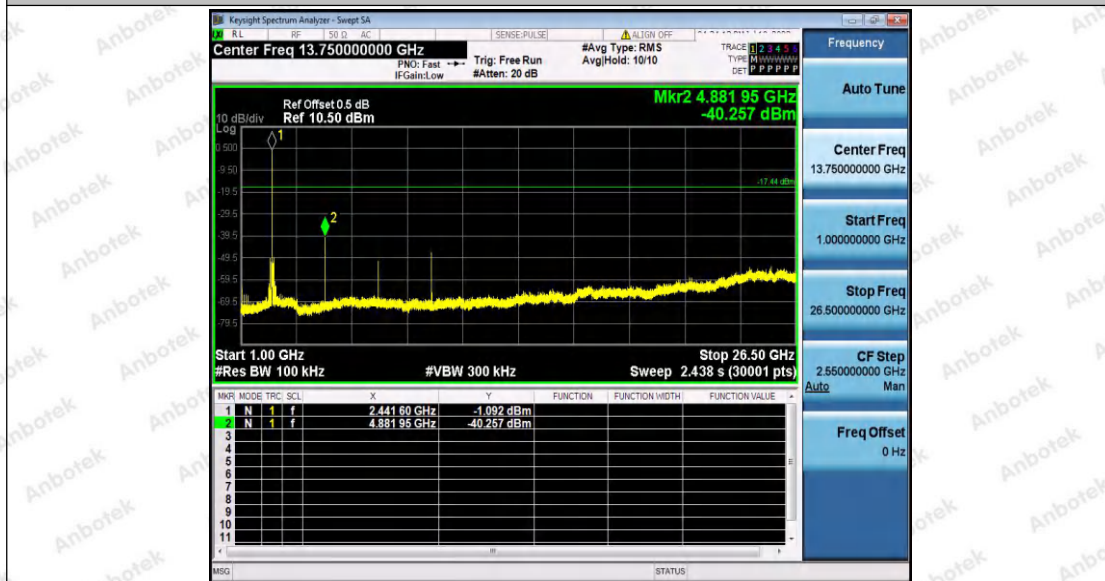
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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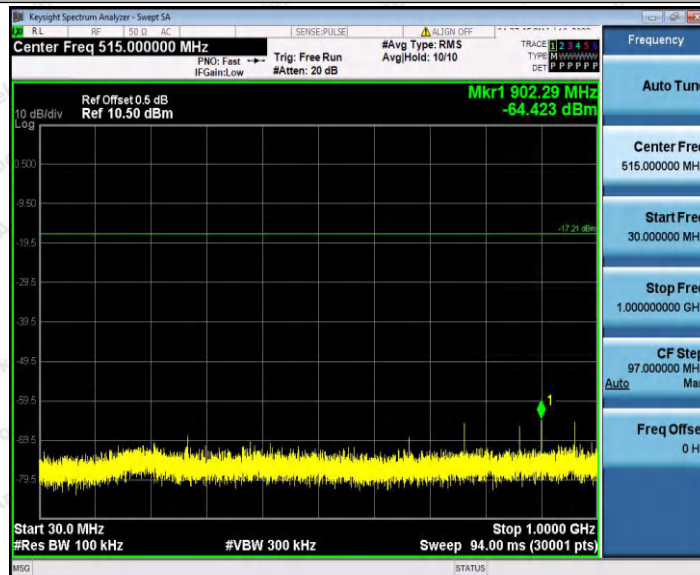
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



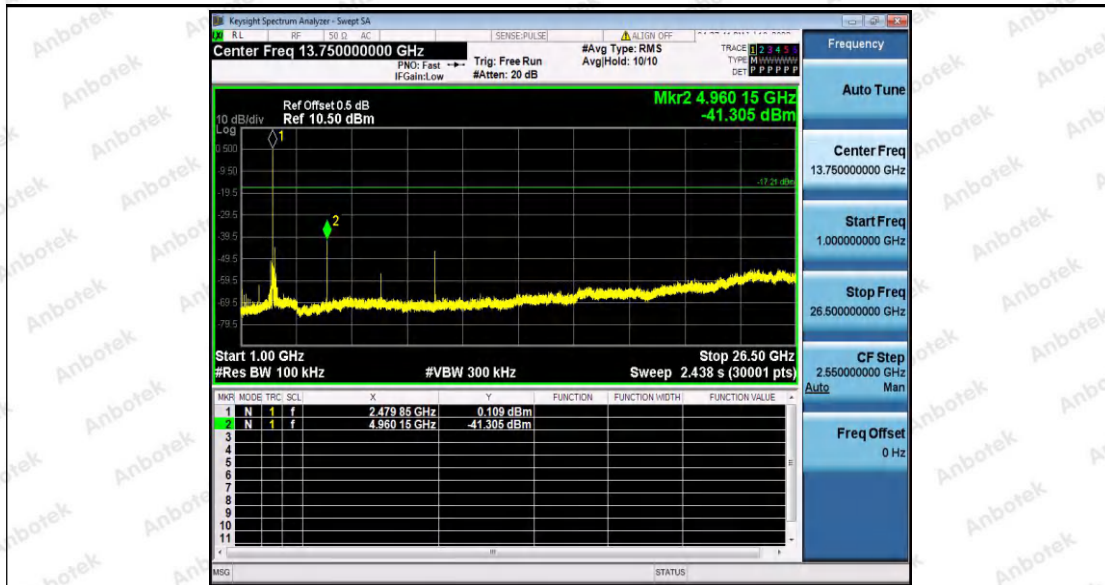
2DH5_Ant1_2480_1000~26500

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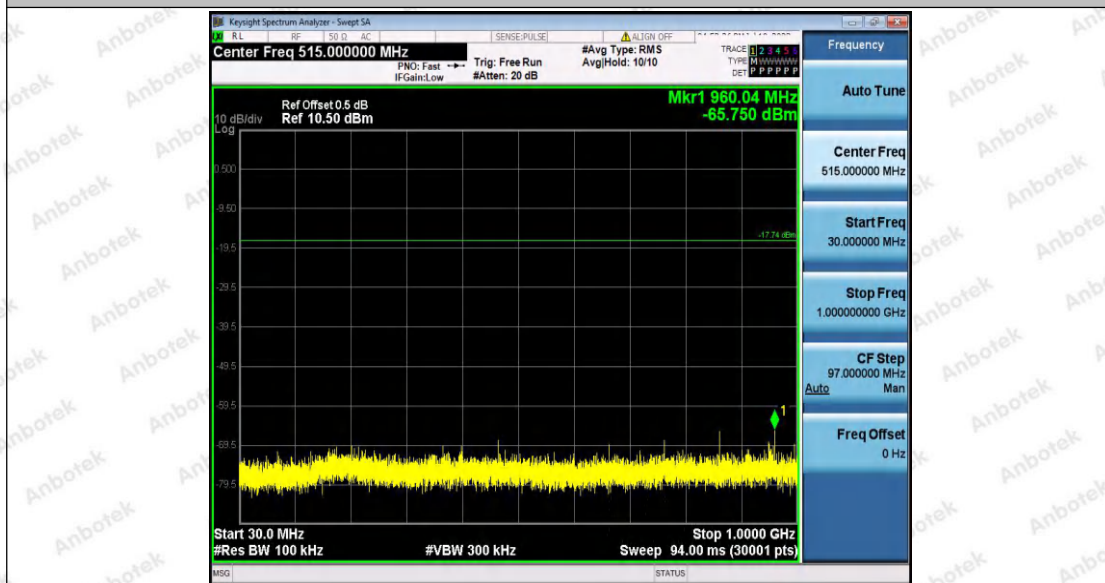
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



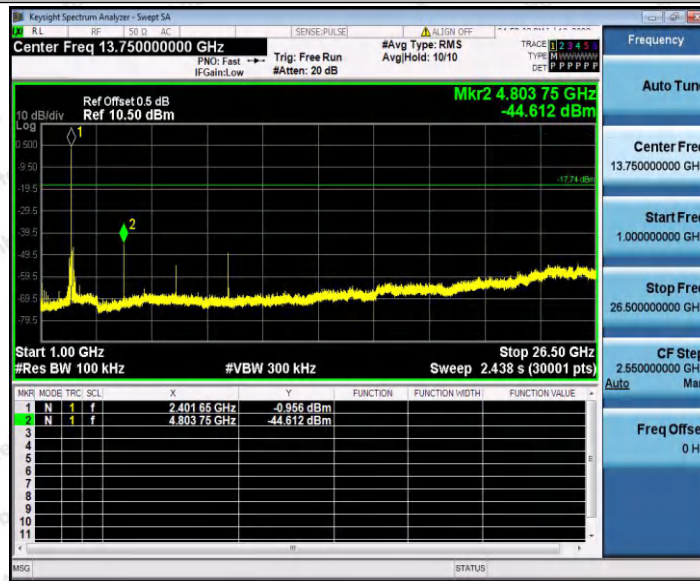
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



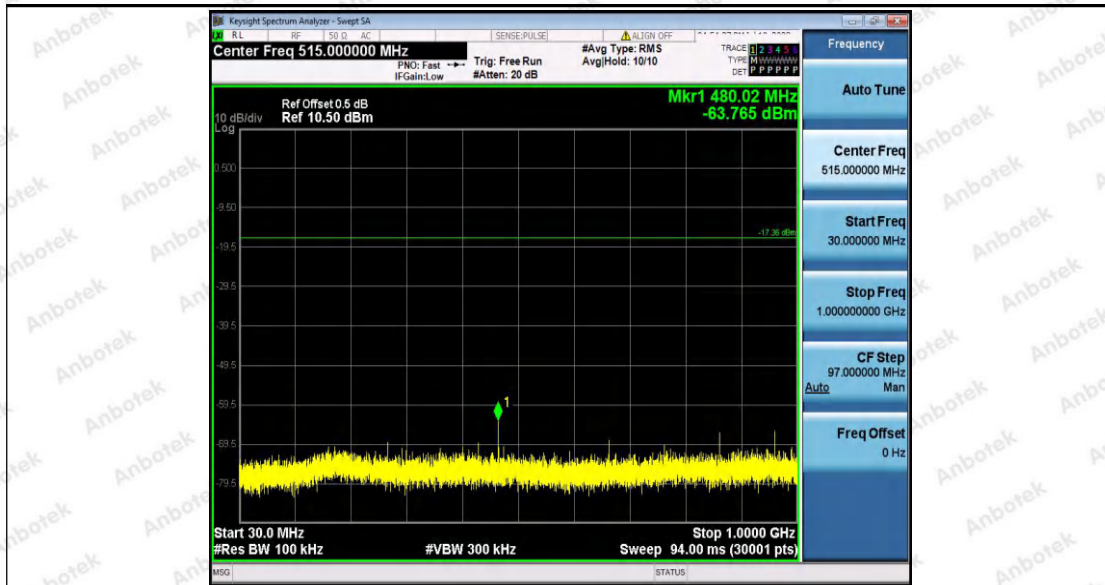
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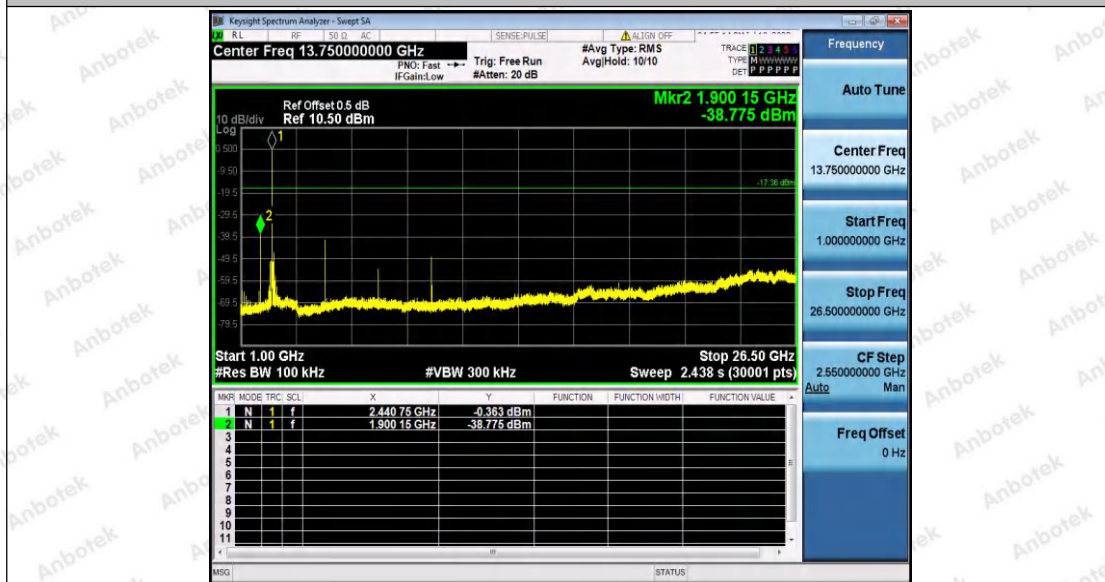
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

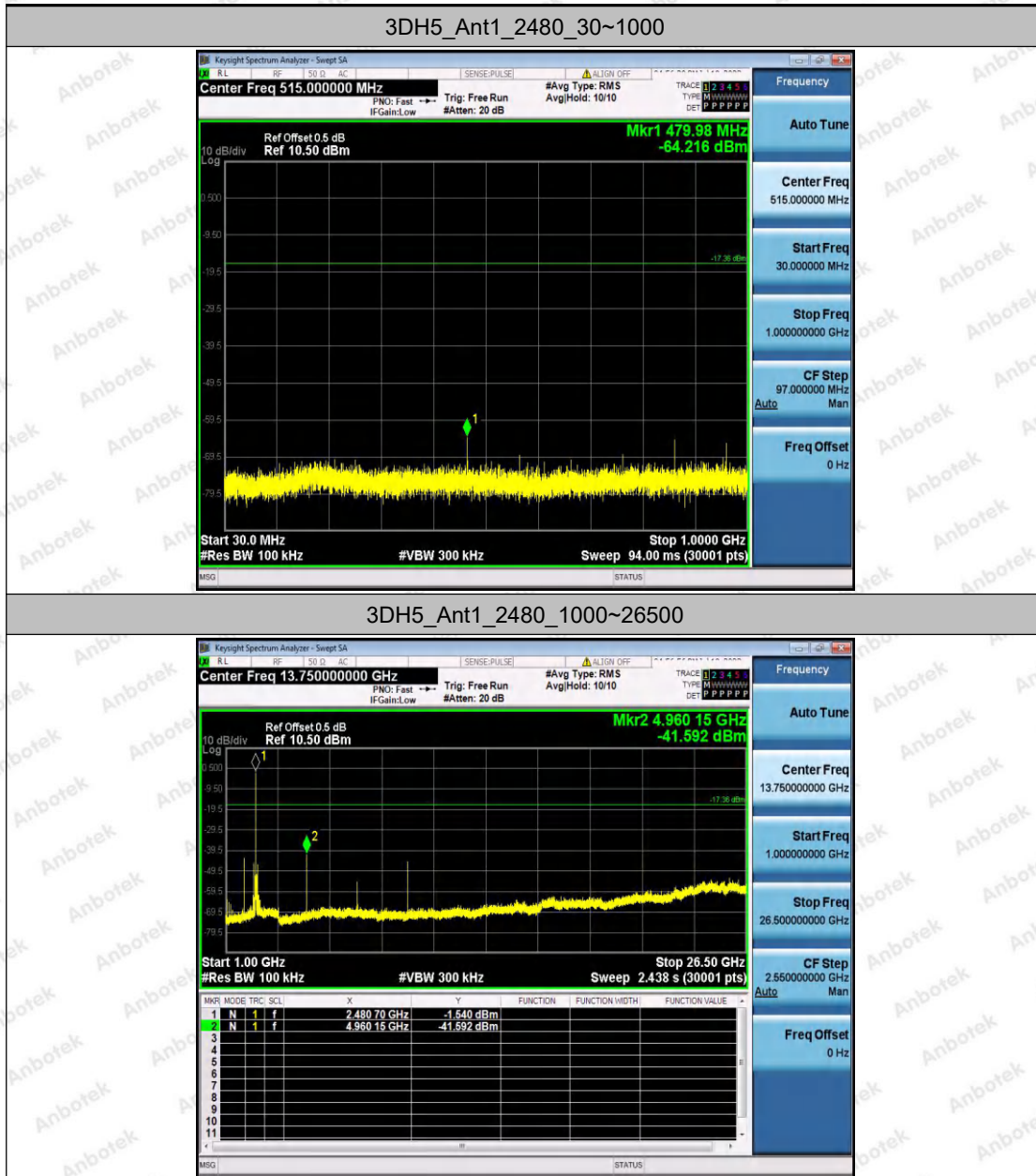


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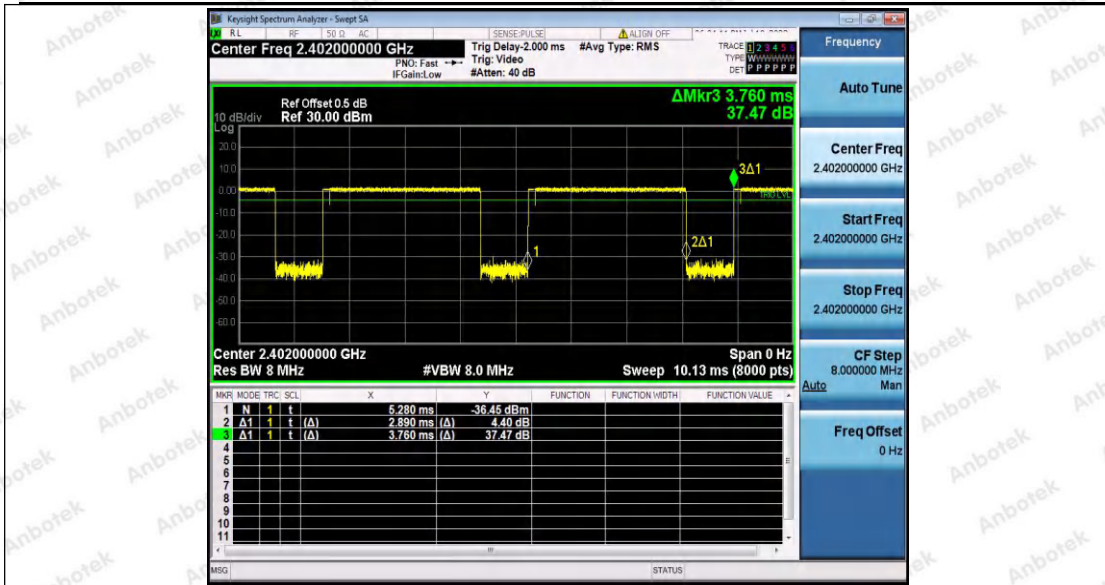
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.76	0.768 6	76.86	1.14	---	PASS

Test Graphs





---End---