

Appendix Test Data

Report No.:	18220WC20122301	Test Sample No.:	1-2-2
Start Test Date:	2022.6.9	Finish Test Date:	2022.6.10
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	53.7 %
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	0.936	2401.541	2402.477	---	PASS
		2441	0.942	2440.538	2441.480	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.359	2401.325	2402.684	---	PASS
		2441	1.272	2440.364	2441.636	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.341	2401.328	2402.669	---	PASS
		2441	1.272	2440.352	2441.624	---	PASS
		2480	1.332	2479.331	2480.663	---	PASS

Test Graphs


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	0.89312	2401.55 6	2402.450	---	PASS
		2441	0.89508	2440.55 5	2441.451	---	PASS
		2480	0.88705	2479.55 6	2480.443	---	PASS
2DH5	Ant1	2402	1.1938	2401.40 3	2402.597	---	PASS
		2441	1.1982	2440.40 2	2441.600	---	PASS
		2480	1.1946	2479.40 3	2480.597	---	PASS
3DH5	Ant1	2402	1.2098	2401.38 7	2402.596	---	PASS
		2441	1.2057	2440.39 0	2441.596	---	PASS
		2480	1.2092	2479.38 9	2480.598	---	PASS

Test Graphs

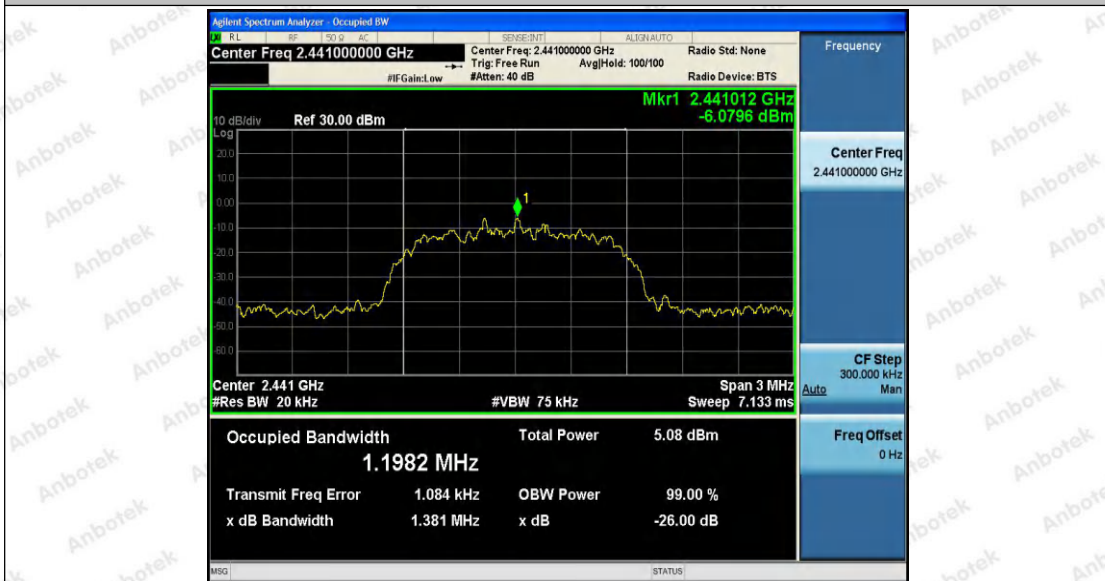




2DH5_Ant1_2402



2DH5_Ant1_2441

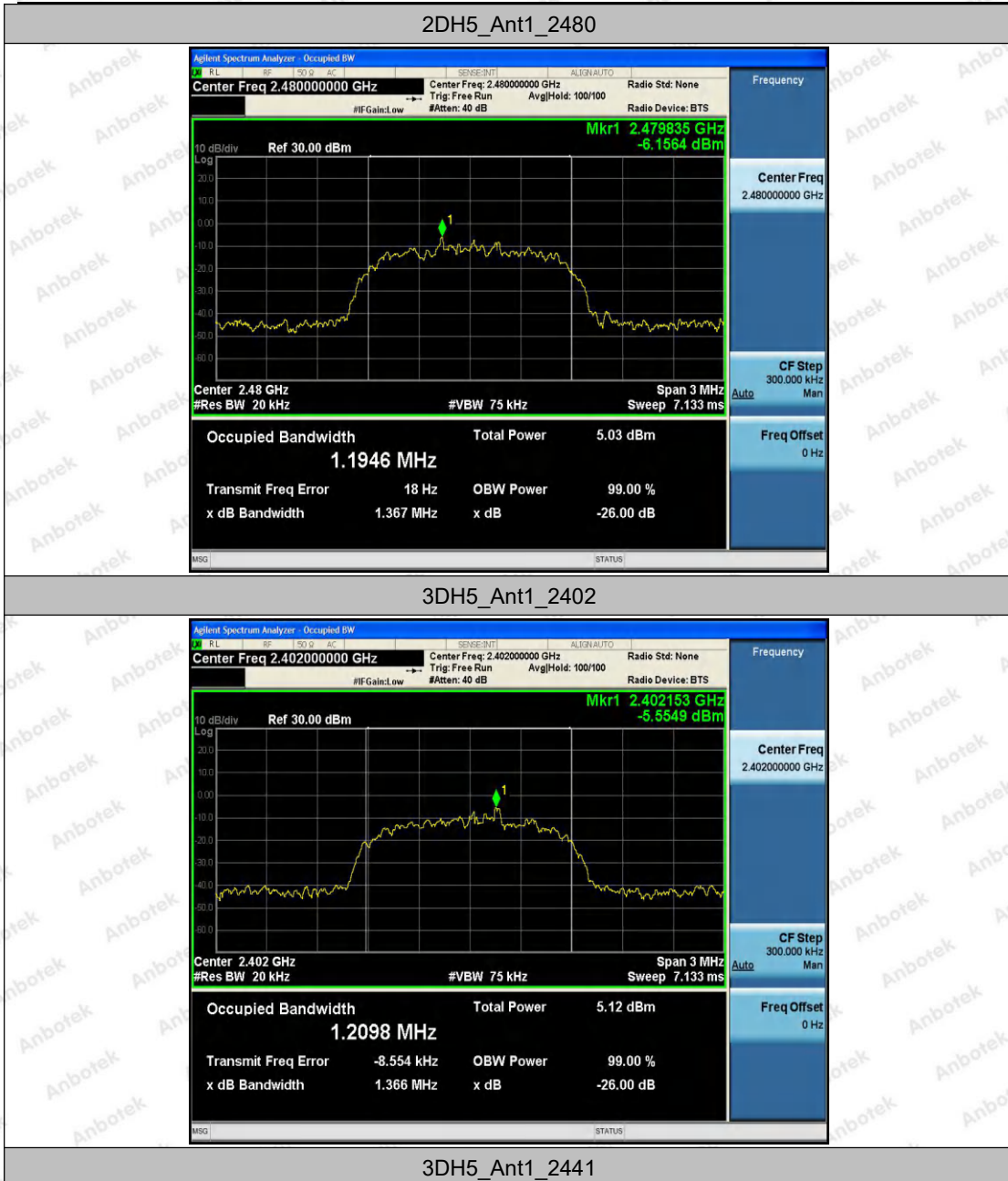


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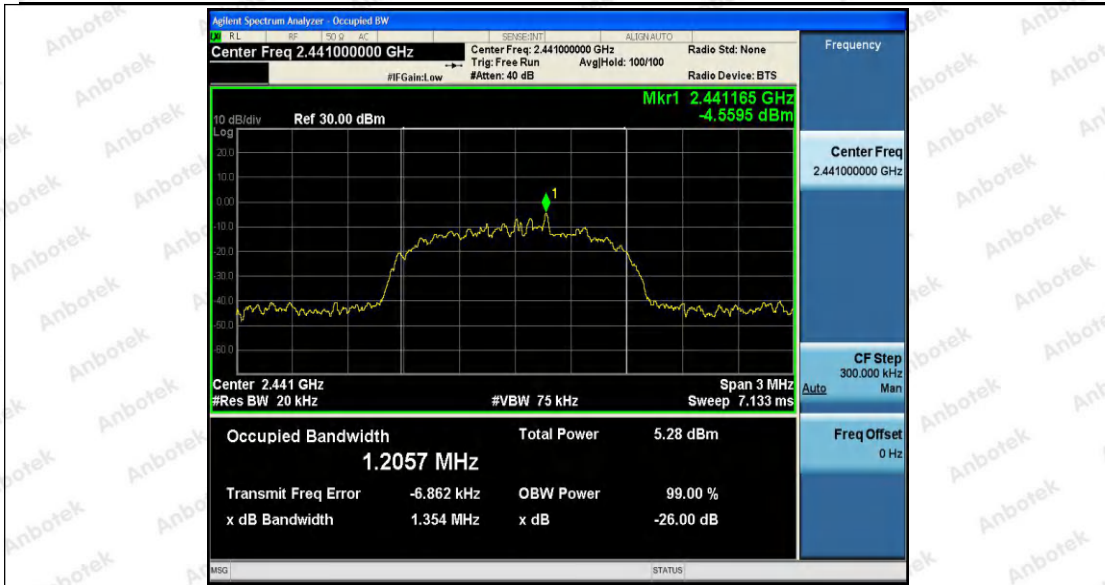


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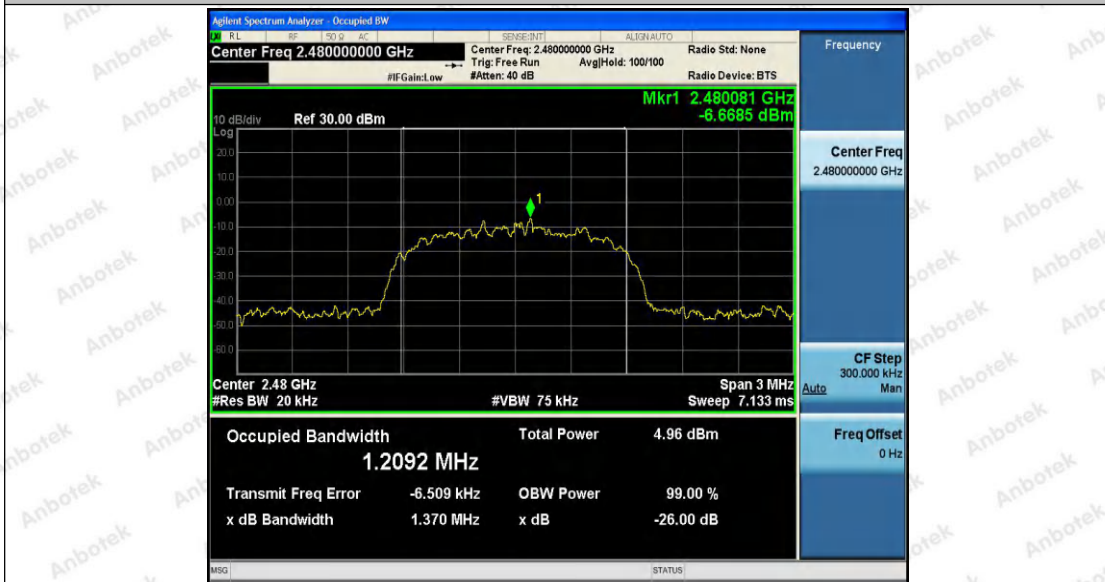
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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.37	≤20.97	PASS
		2441	0.57	≤20.97	PASS
		2480	0.72	≤20.97	PASS
2DH5	Ant1	2402	-0.09	≤20.97	PASS
		2441	-0.06	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
3DH5	Ant1	2402	-0.01	≤20.97	PASS
		2441	0	≤20.97	PASS
		2480	0.12	≤20.97	PASS

Test Graphs



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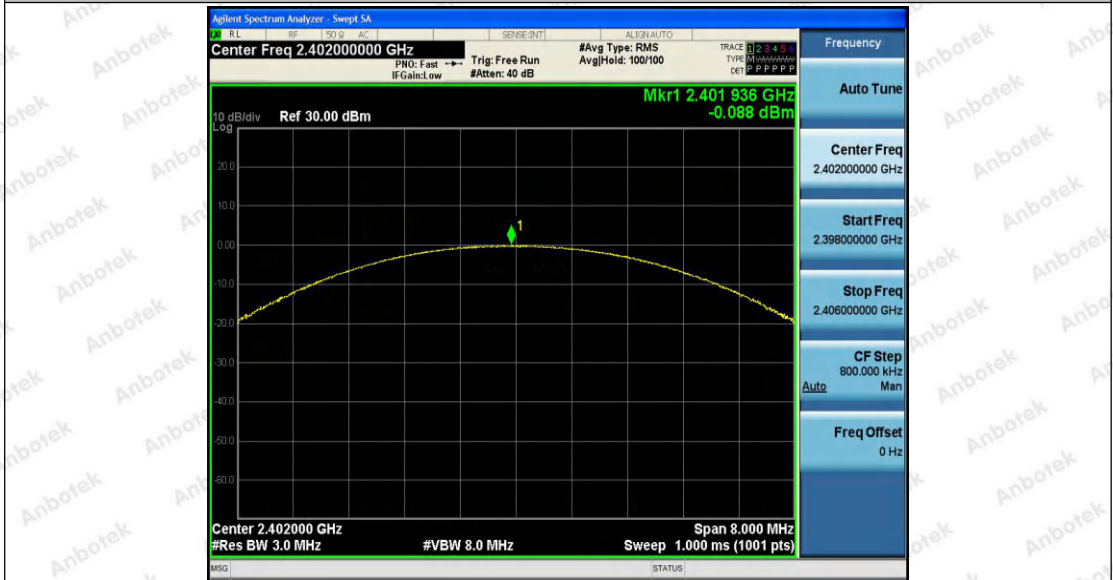
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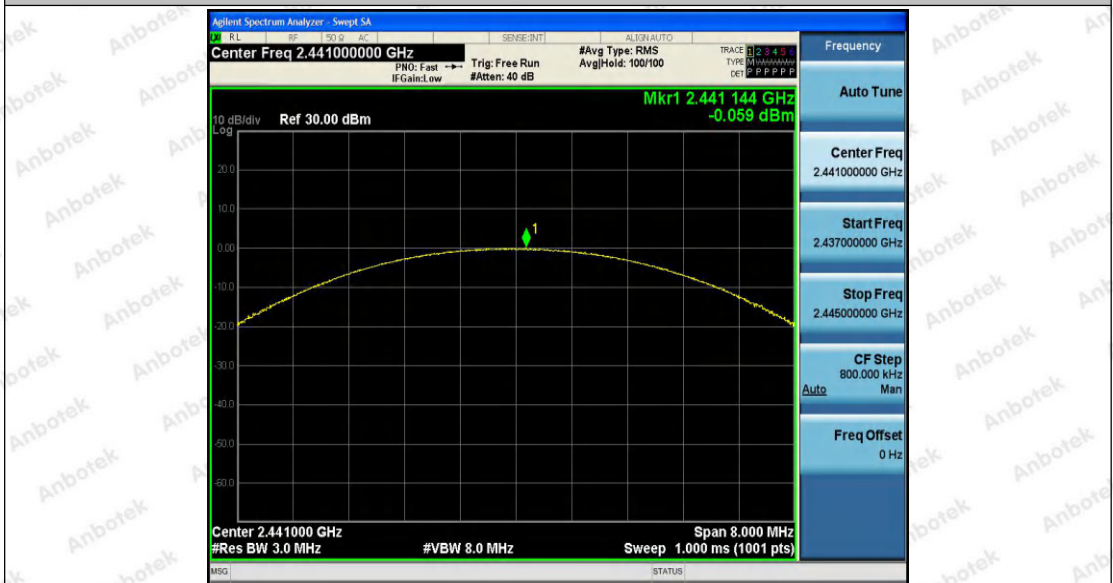
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2DH5_Ant1_2402



2DH5_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	0.956	≥0.948	PASS
2DH5	Ant1	Hop	1.028	≥0.906	PASS
3DH5	Ant1	Hop	1.172	≥0.894	PASS

Test Graphs





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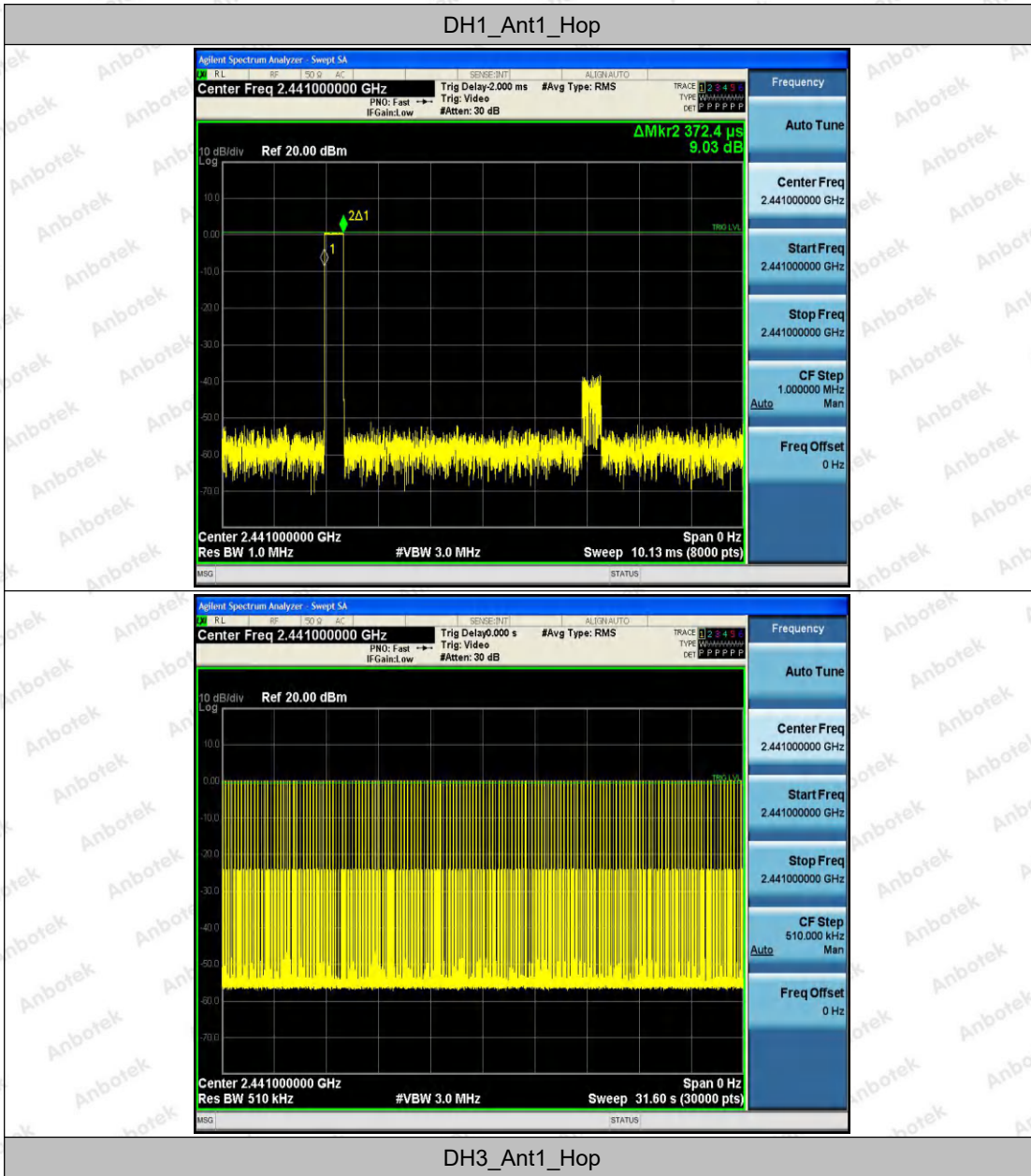
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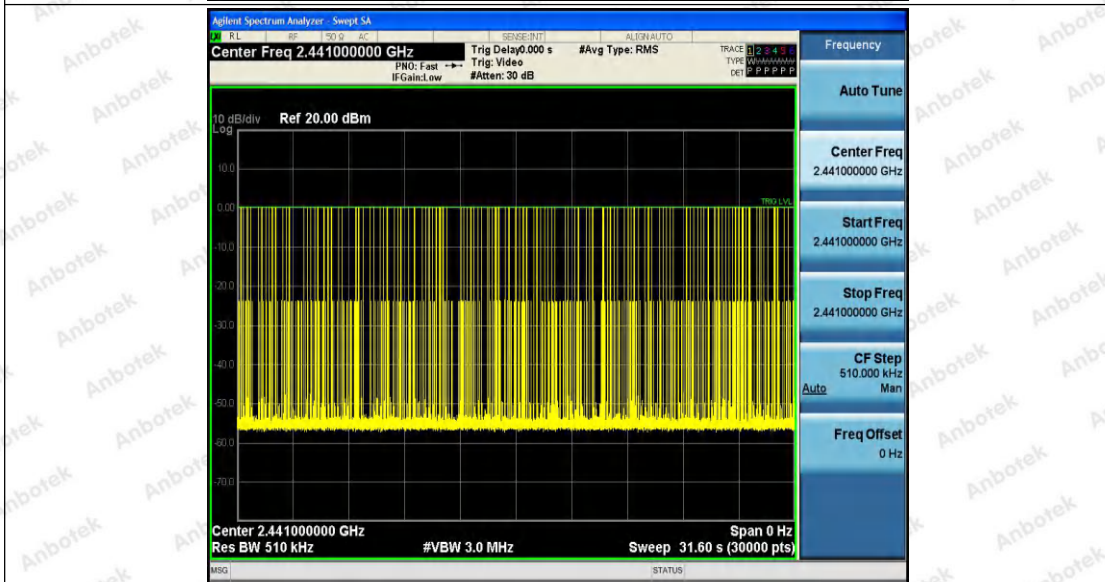
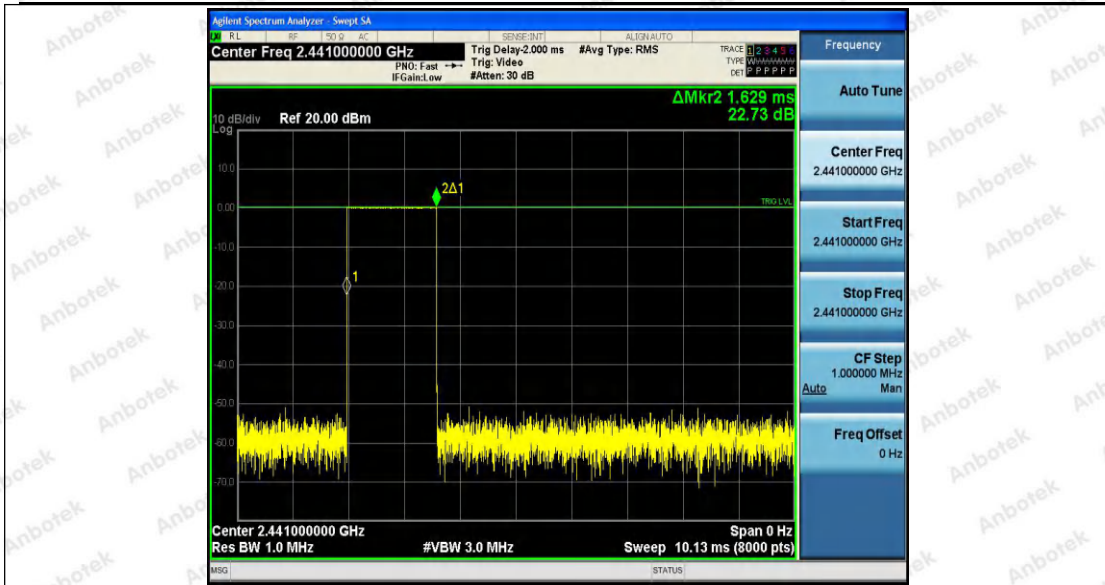
Appendix E: Time of occupancy

Test Result

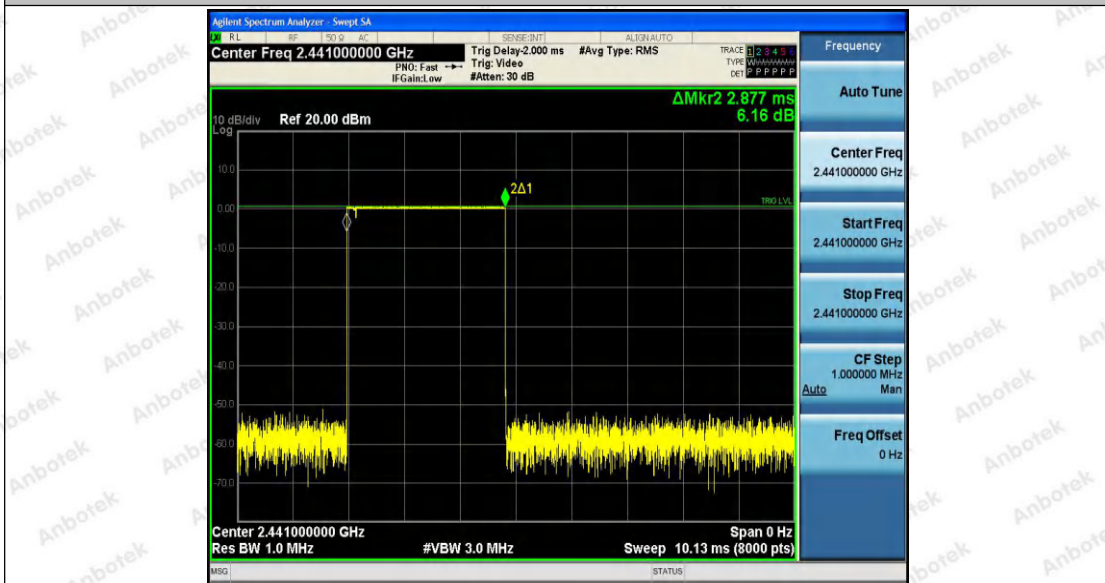
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

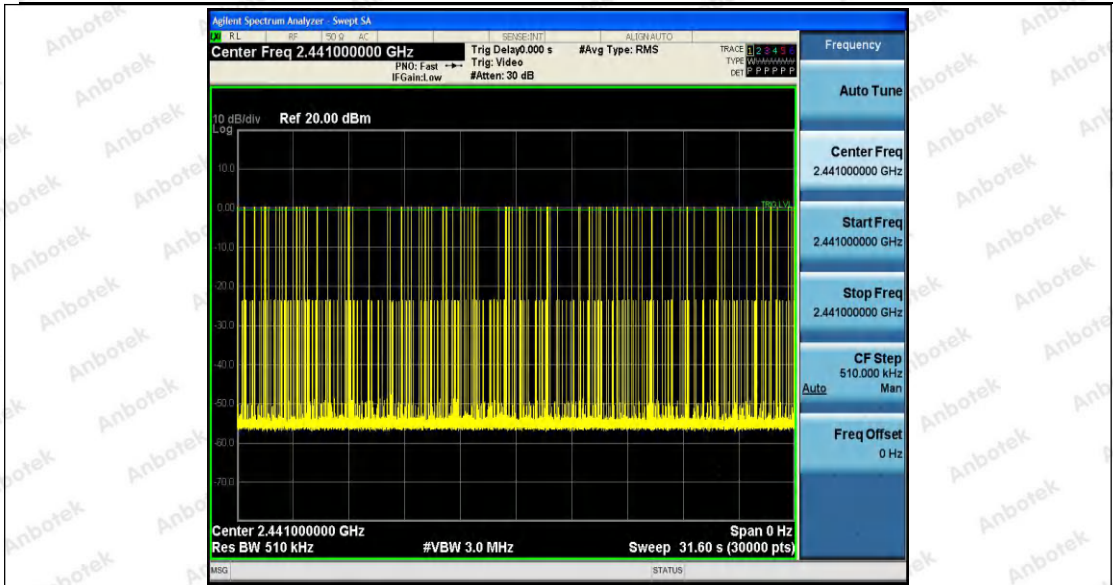


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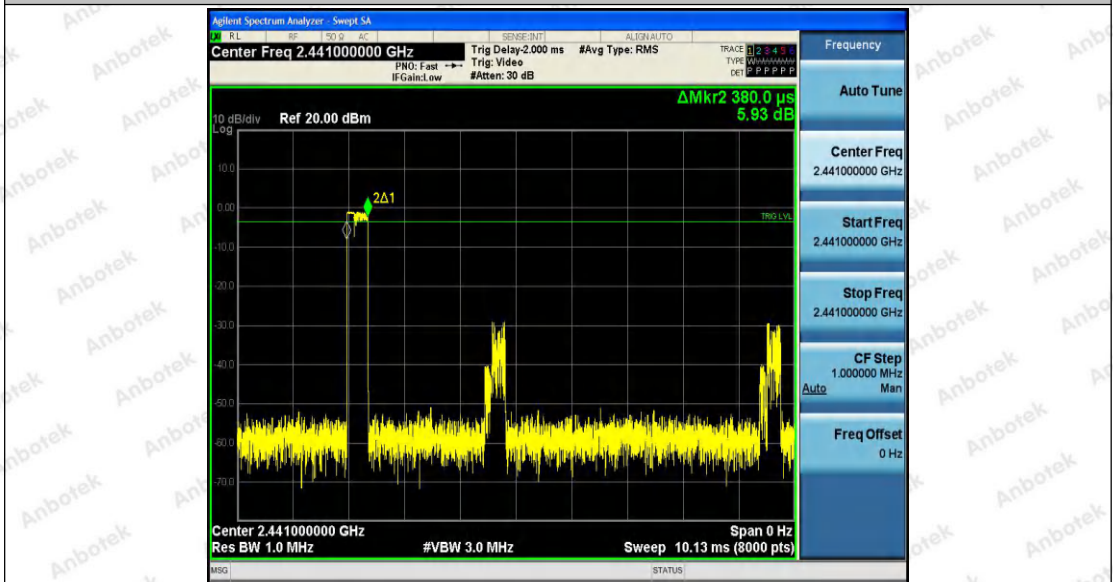
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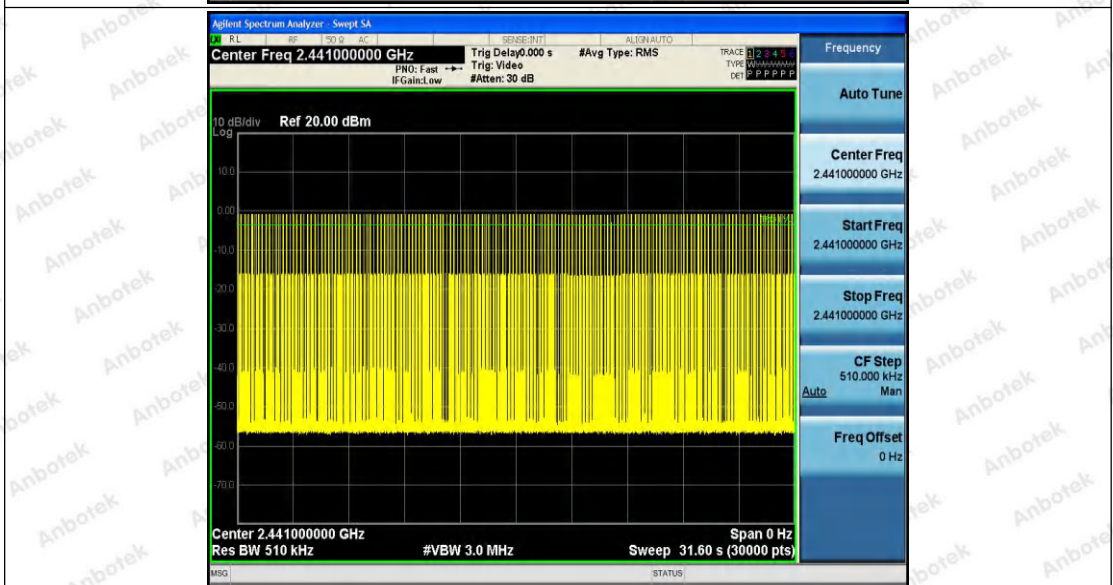
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



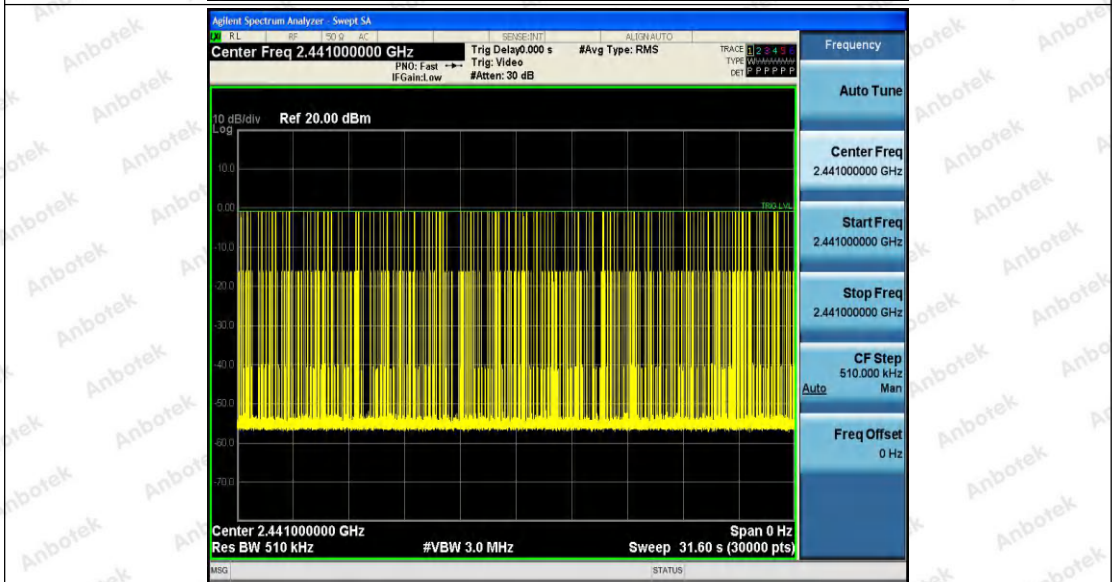
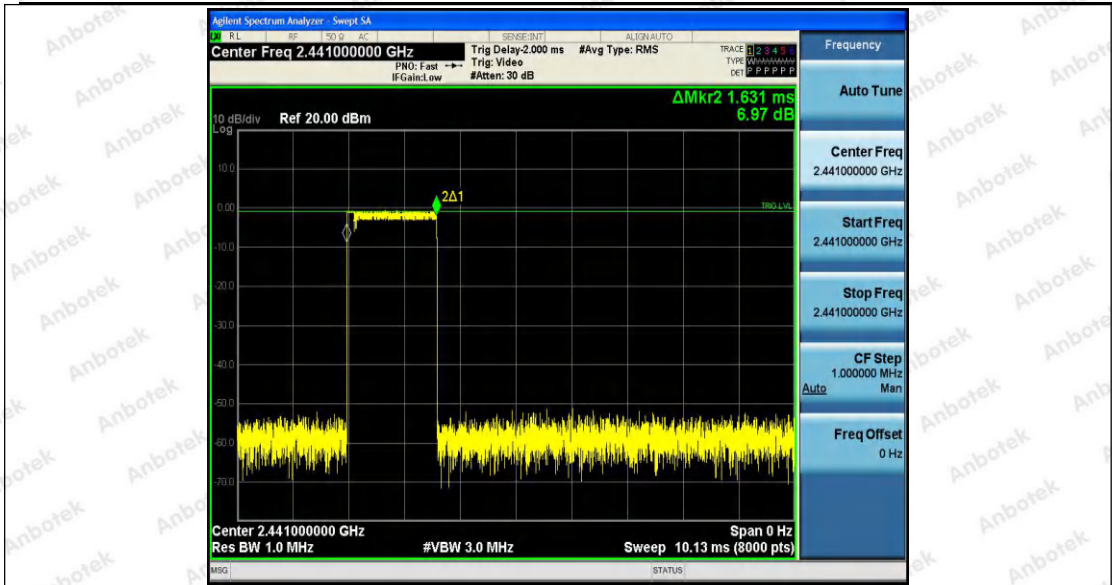
2DH3_Ant1_Hop

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2DH5_Ant1_Hop

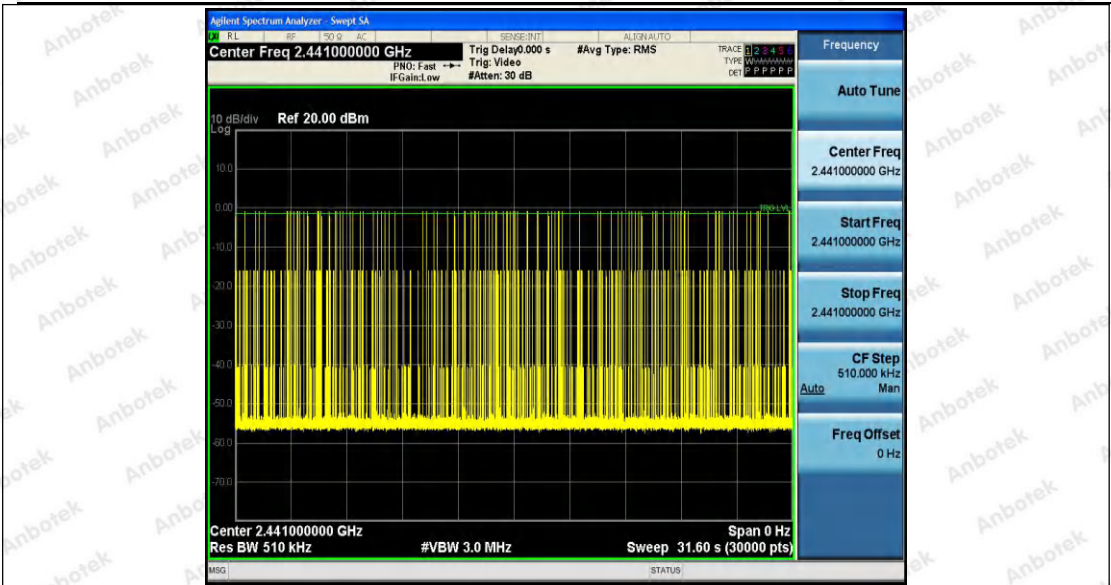


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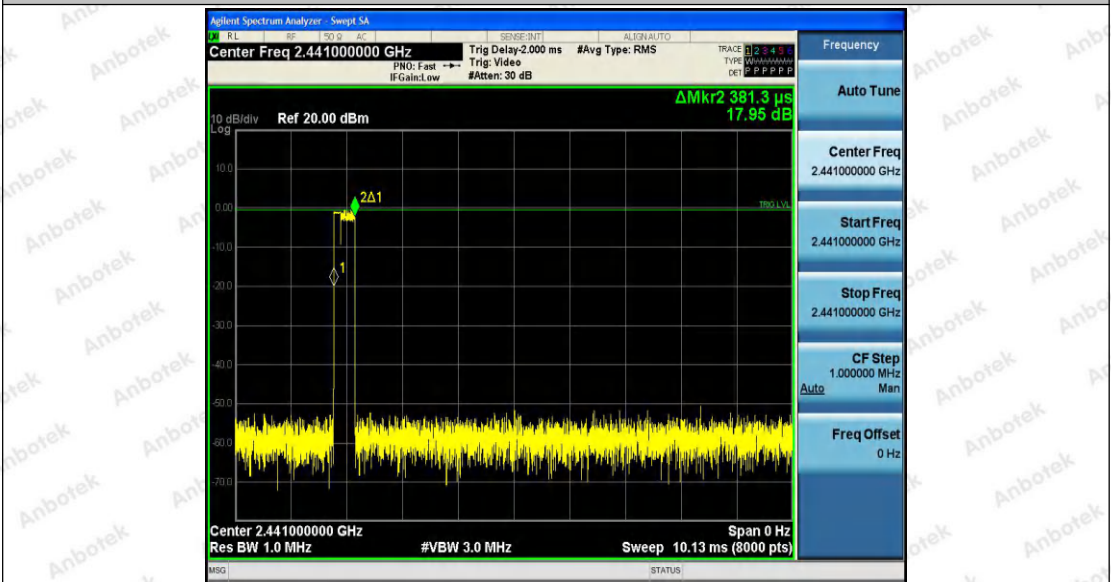
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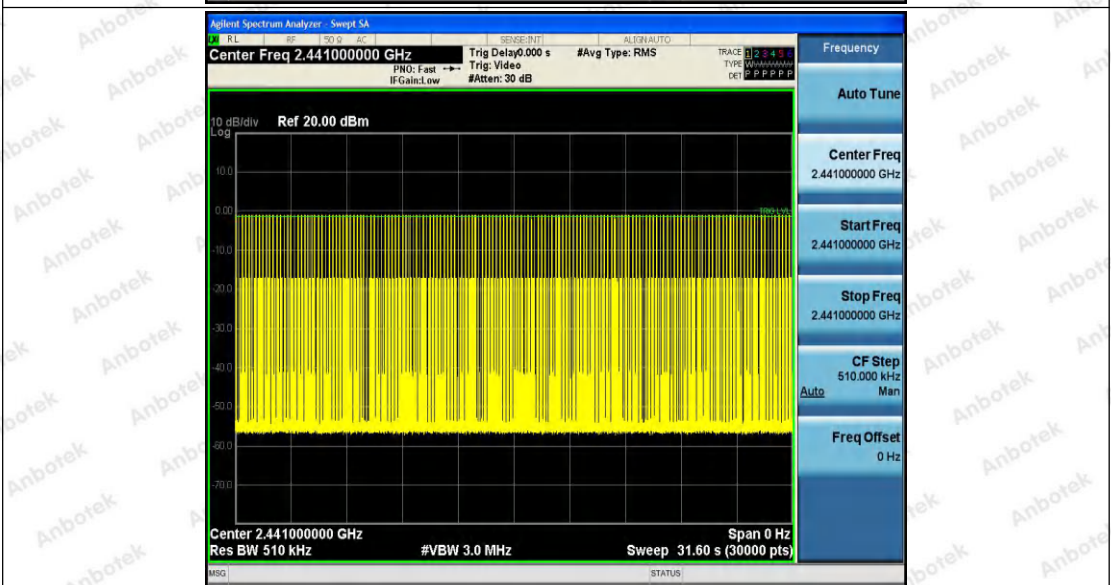
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



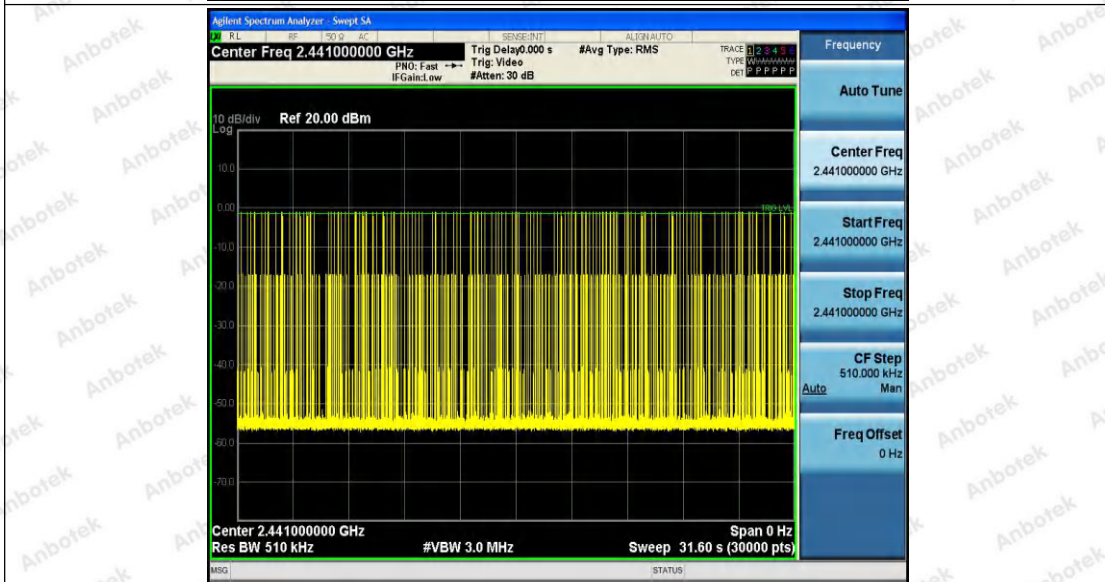
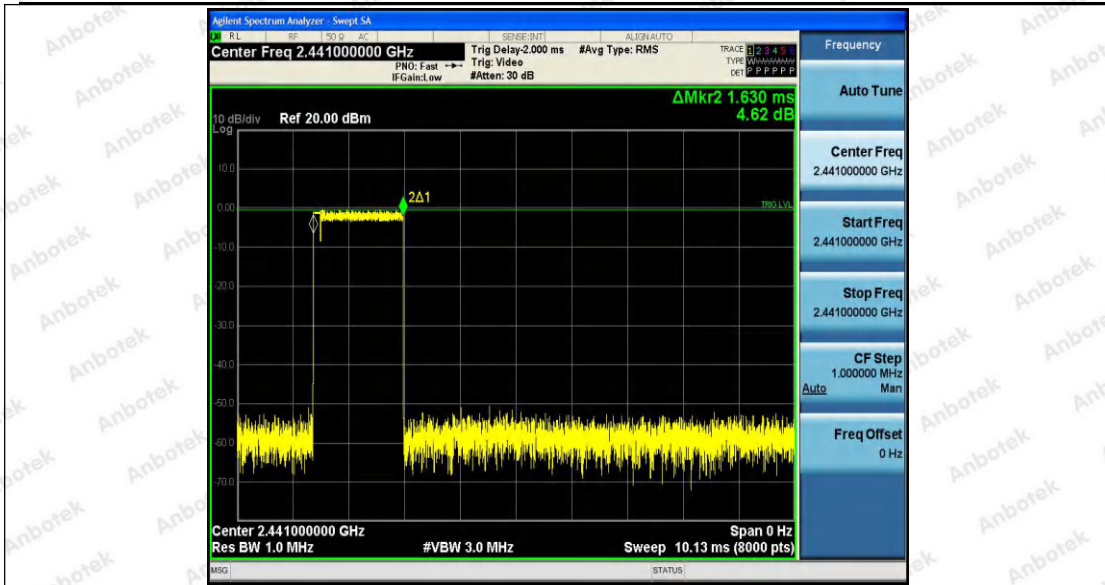
3DH3_Ant1_Hop

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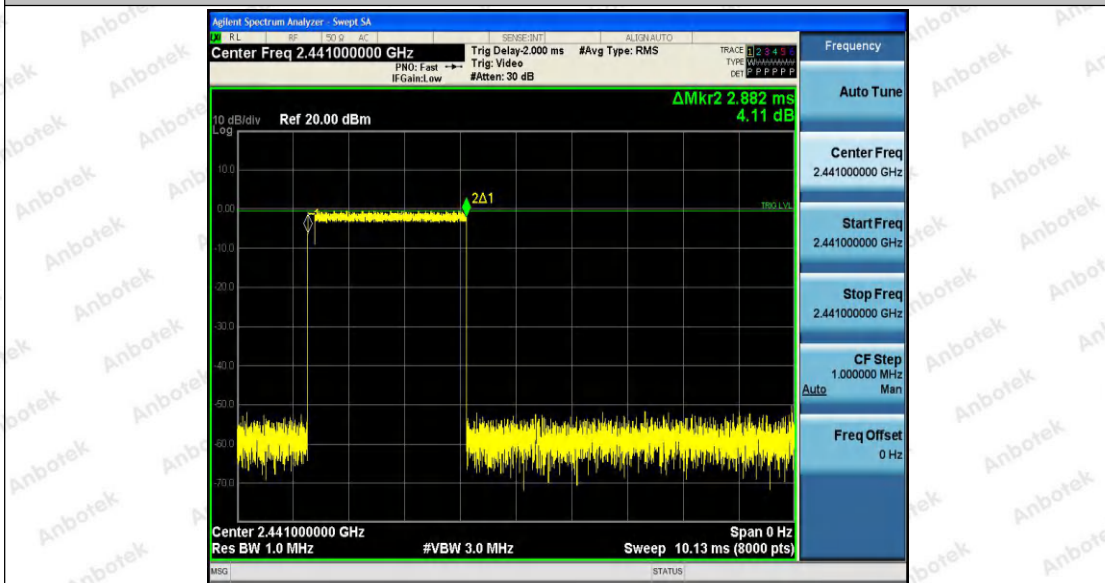
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3DH5_Ant1_Hop

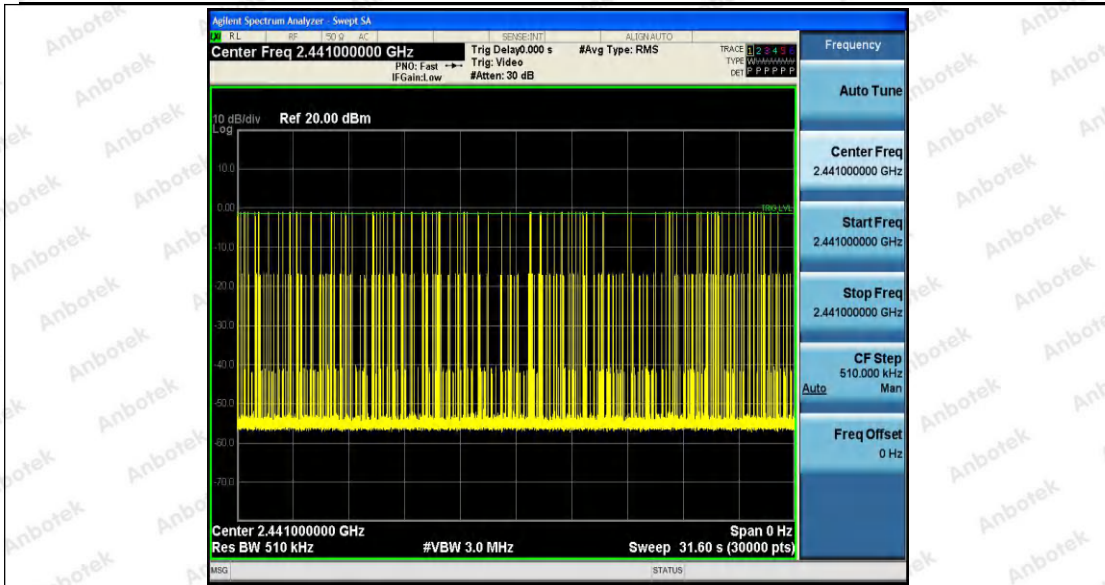


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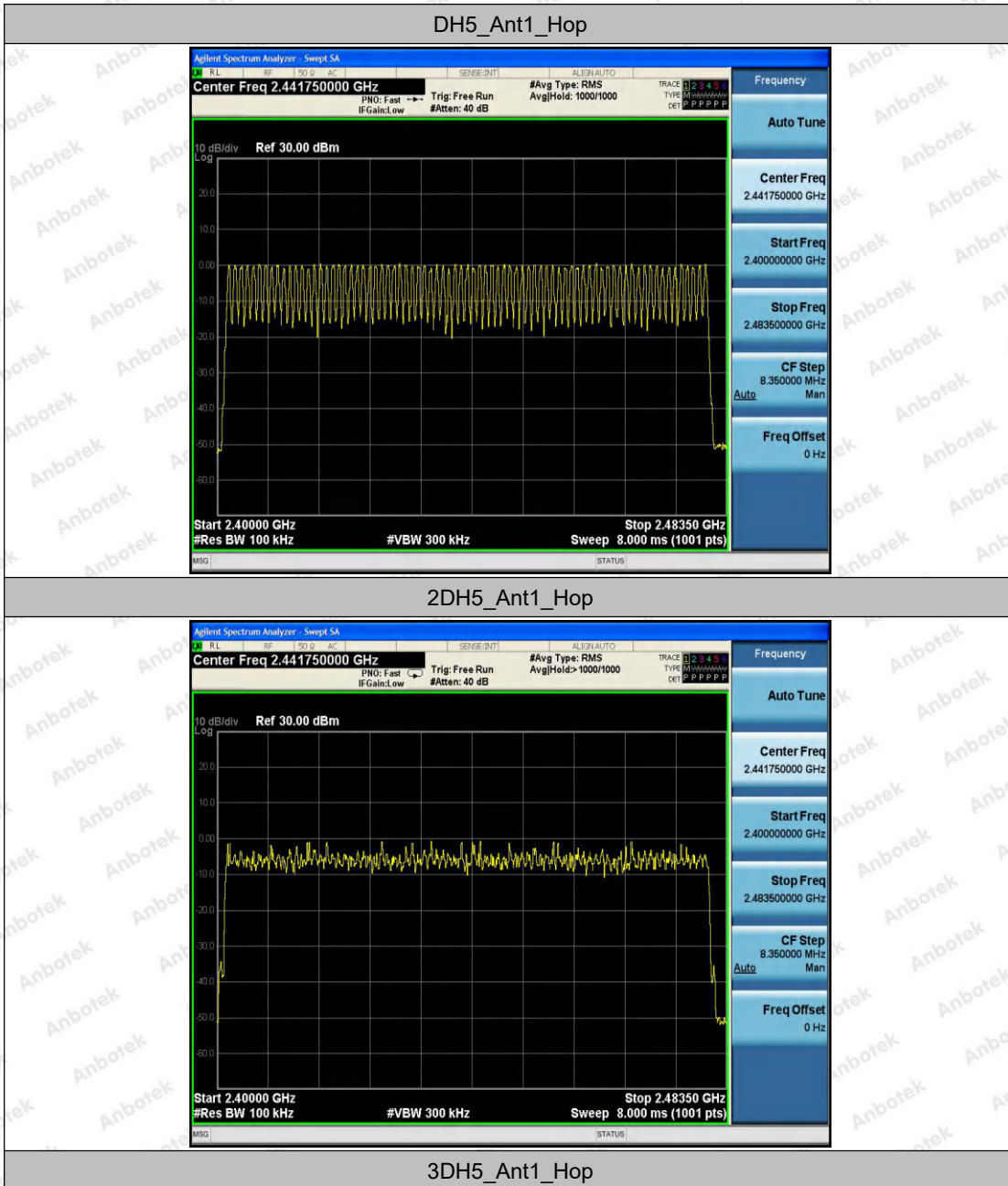
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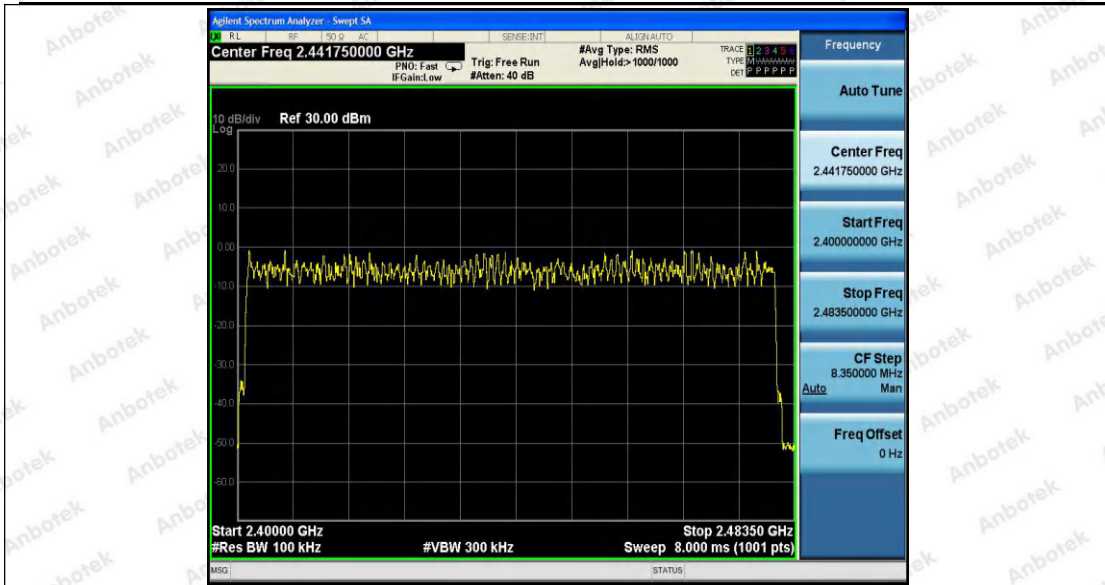
Appendix F: Number of hopping channels

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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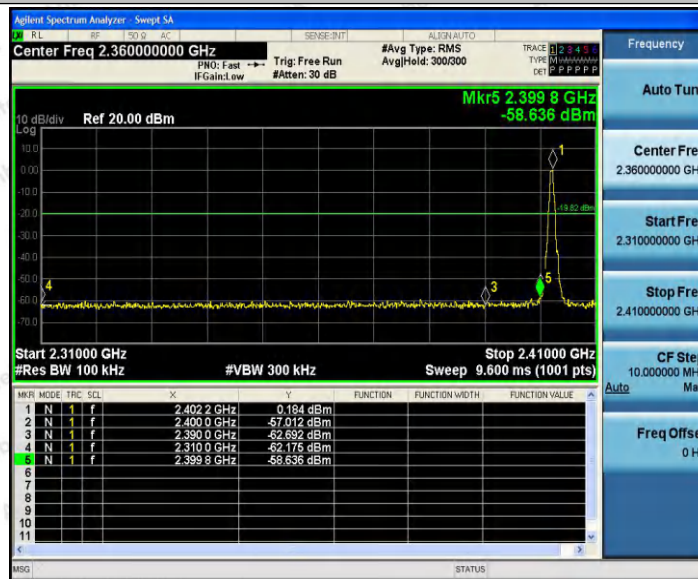
Appendix G: Band edge measurements

Test Result

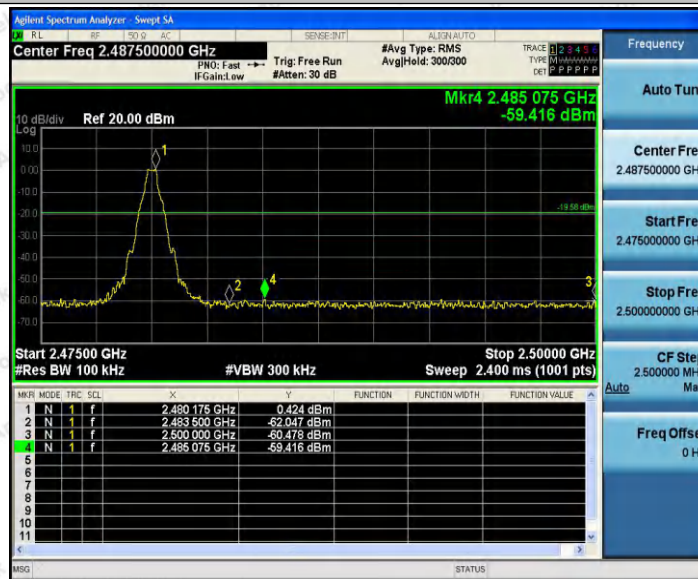
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.18	-58.64	≤-19.82	PASS
		High	2480	0.42	-59.42	≤-19.58	PASS
		Low	Hop	-0.26	-59.3	≤-20.26	PASS
		High	Hop	-0.01	-62.45	≤-20.01	PASS
2DH5	Ant1	Low	2402	-0.78	-56.43	≤-20.78	PASS
		High	2480	-1.04	-59.5	≤-21.04	PASS
		Low	Hop	-4.07	-58.39	≤-24.07	PASS
		High	Hop	-1.25	-61.23	≤-21.25	PASS
3DH5	Ant1	Low	2402	-1.13	-56.77	≤-21.13	PASS
		High	2480	-0.85	-59.04	≤-20.85	PASS
		Low	Hop	-2.82	-59.31	≤-22.82	PASS
		High	Hop	-3.17	-61.02	≤-23.17	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



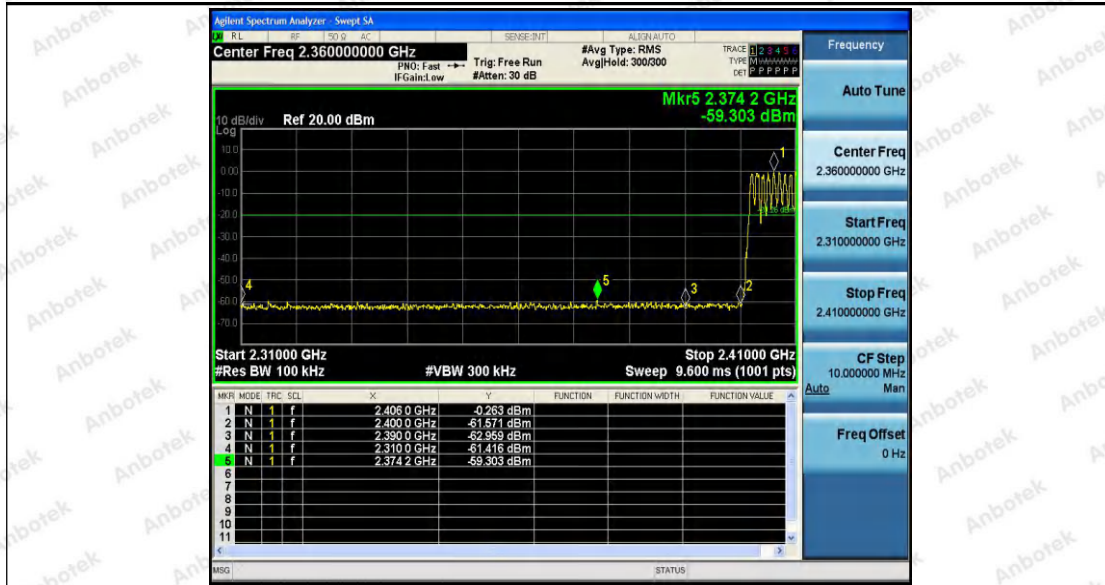
DH5_Ant1_Low_Hop

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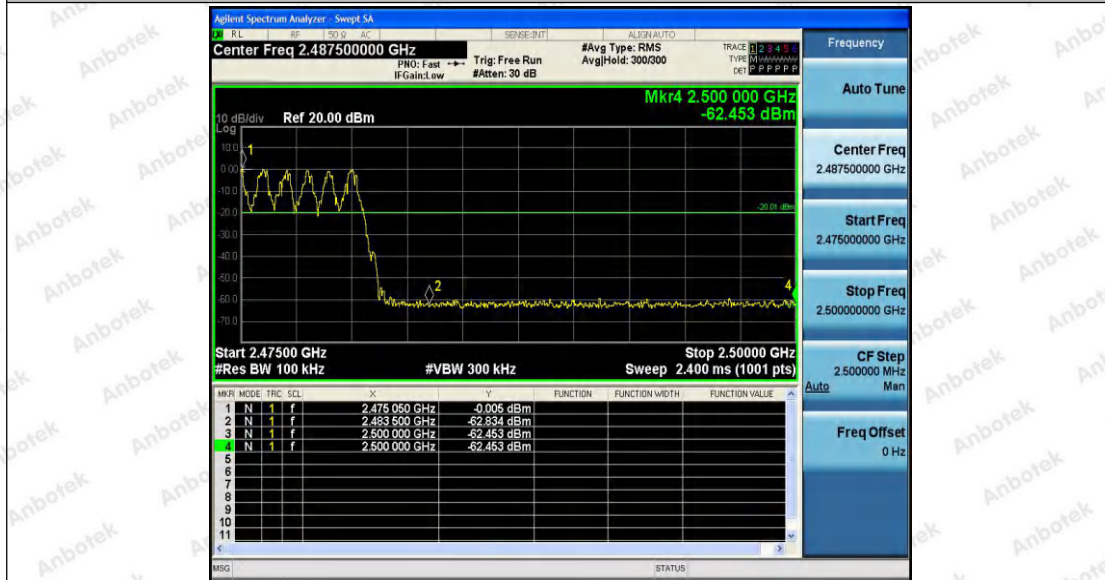
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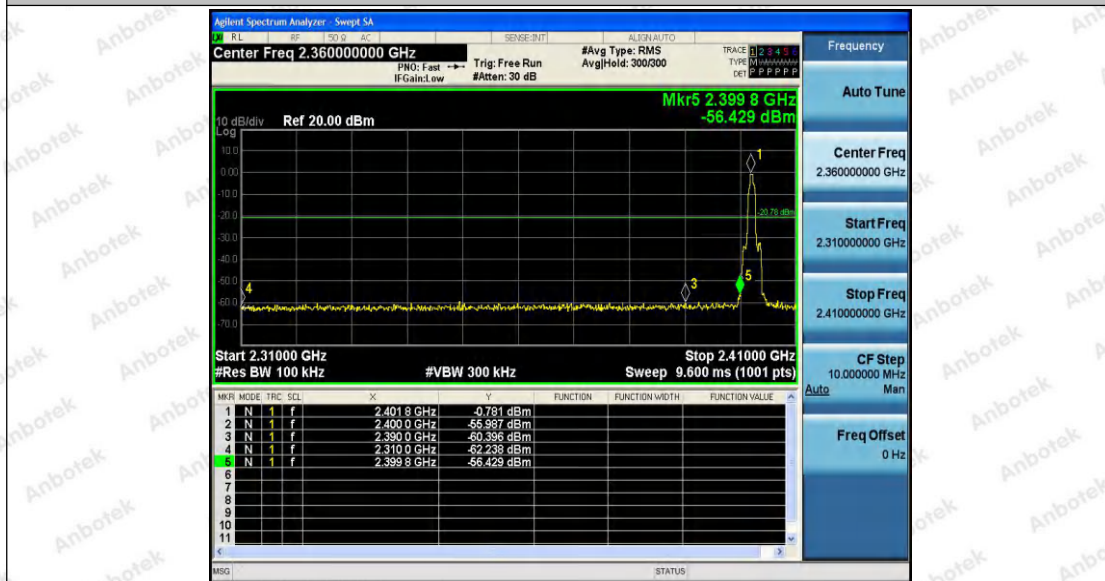
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

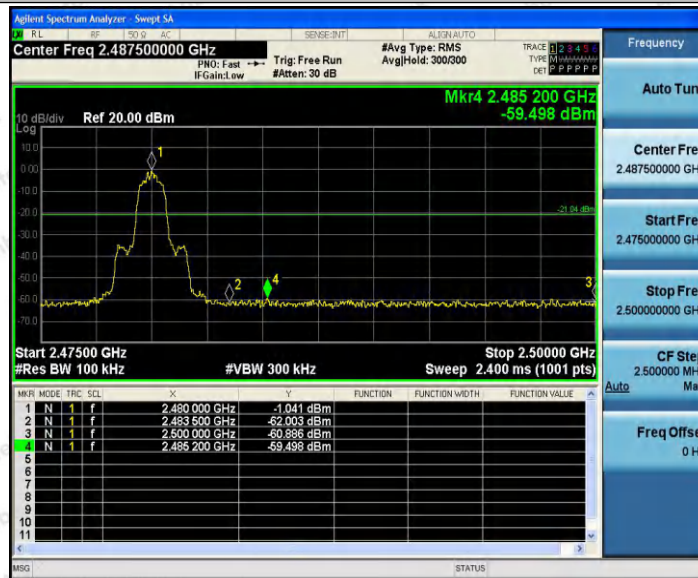


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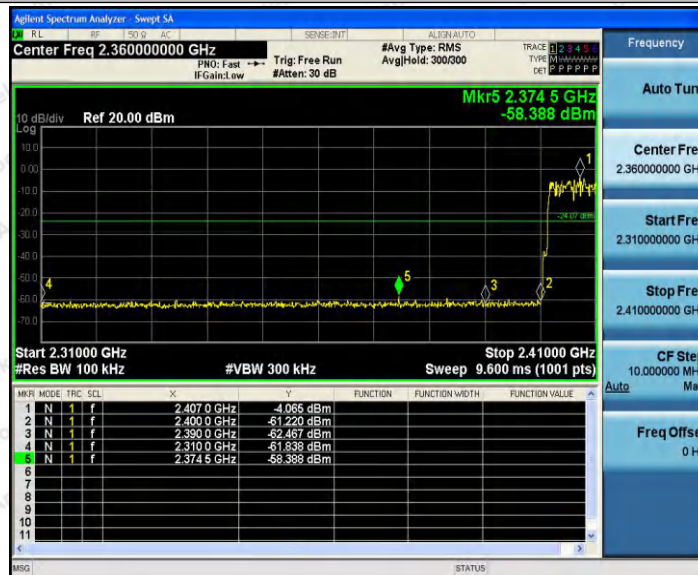
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



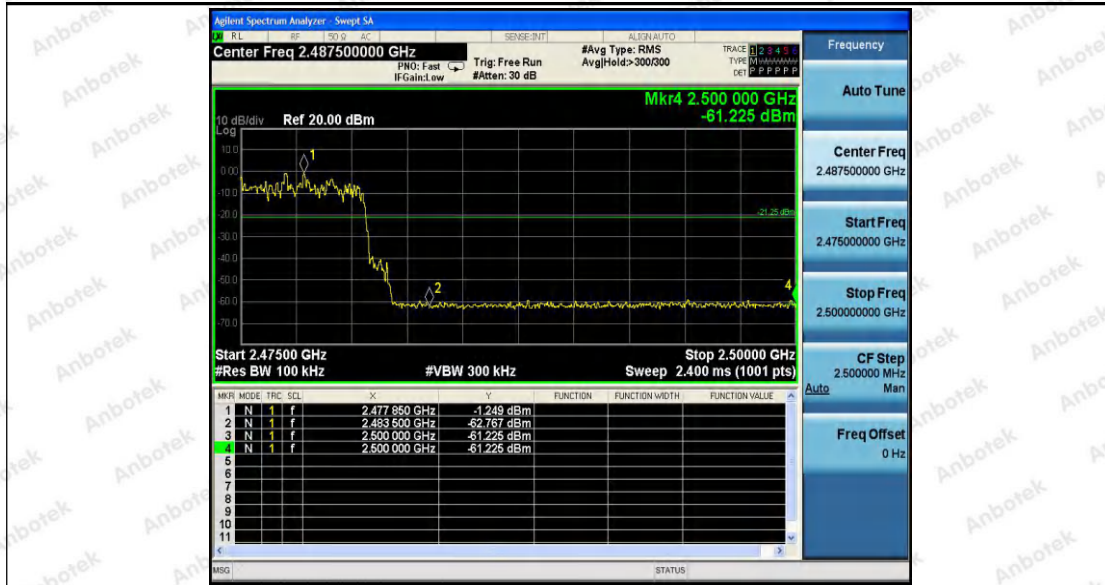
2DH5_Ant1_High_Hop

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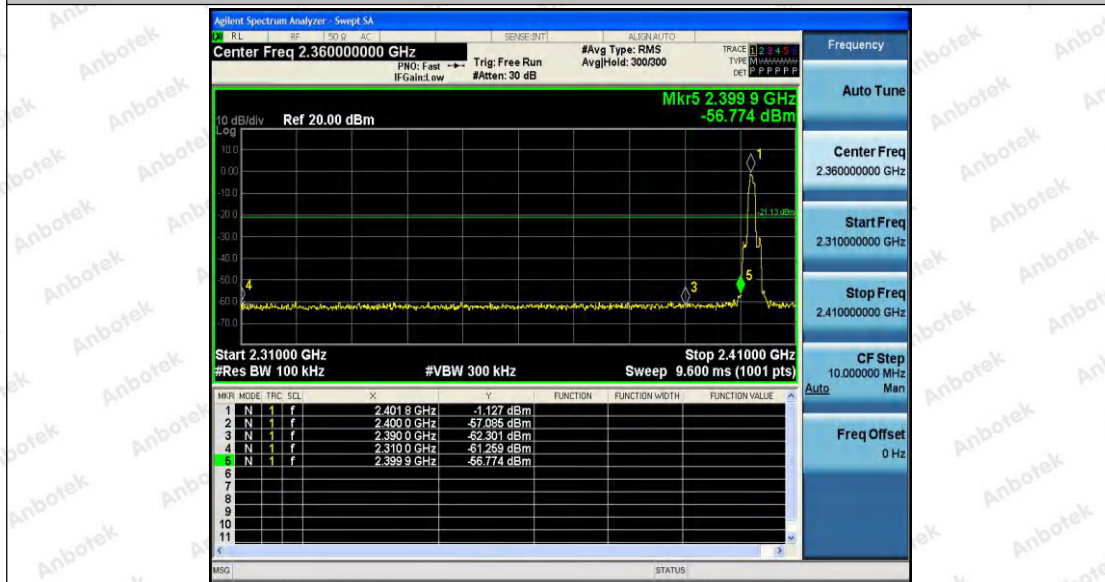
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

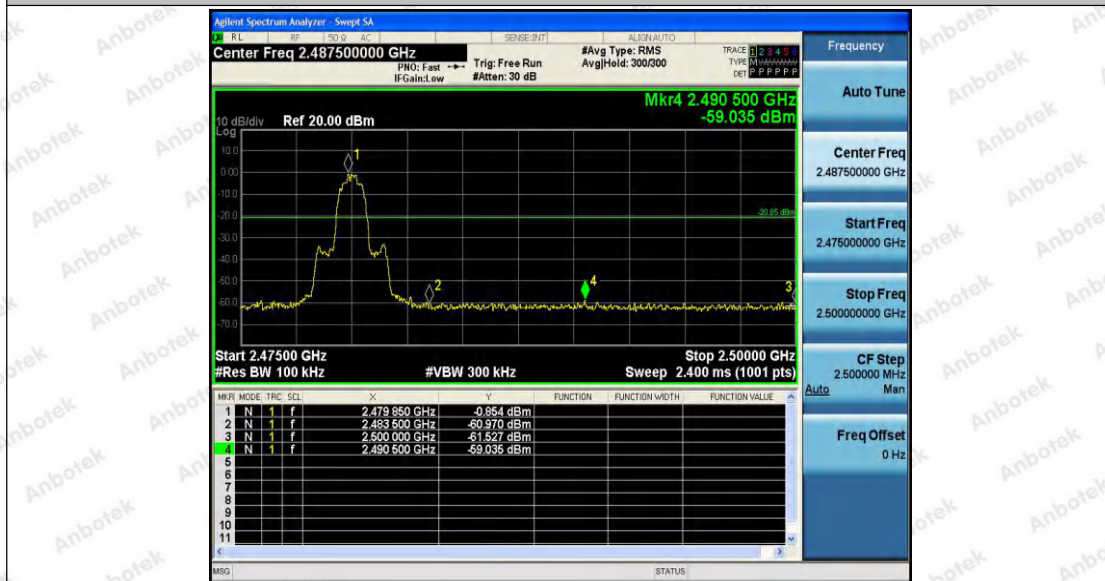
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

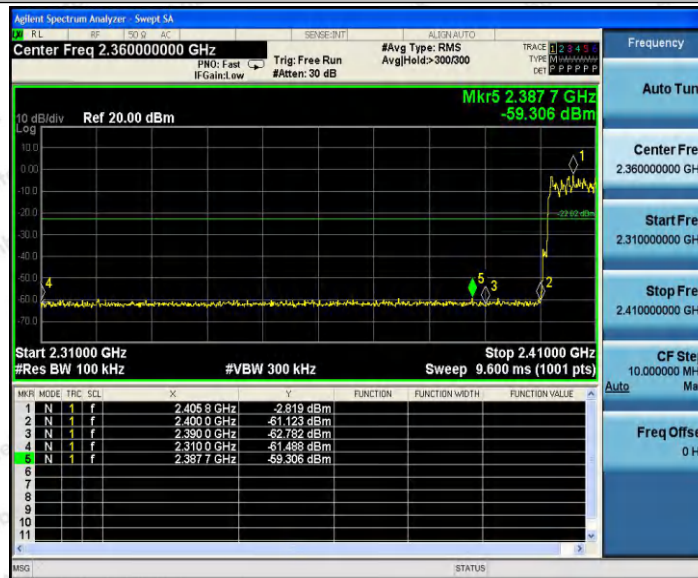


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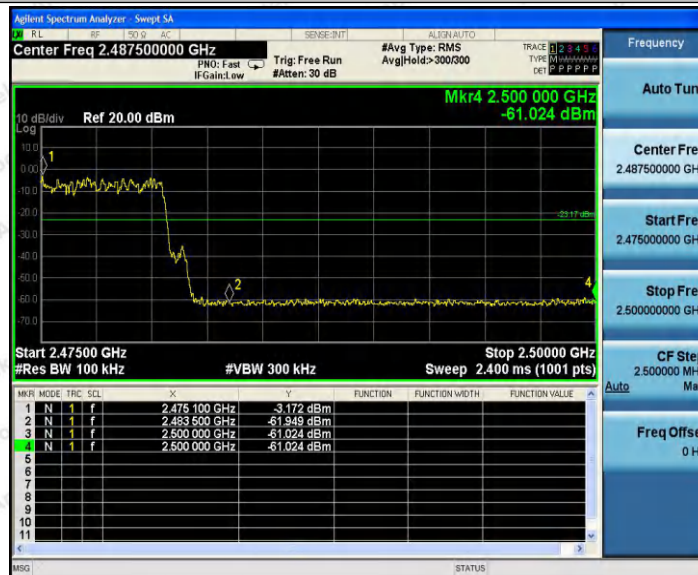
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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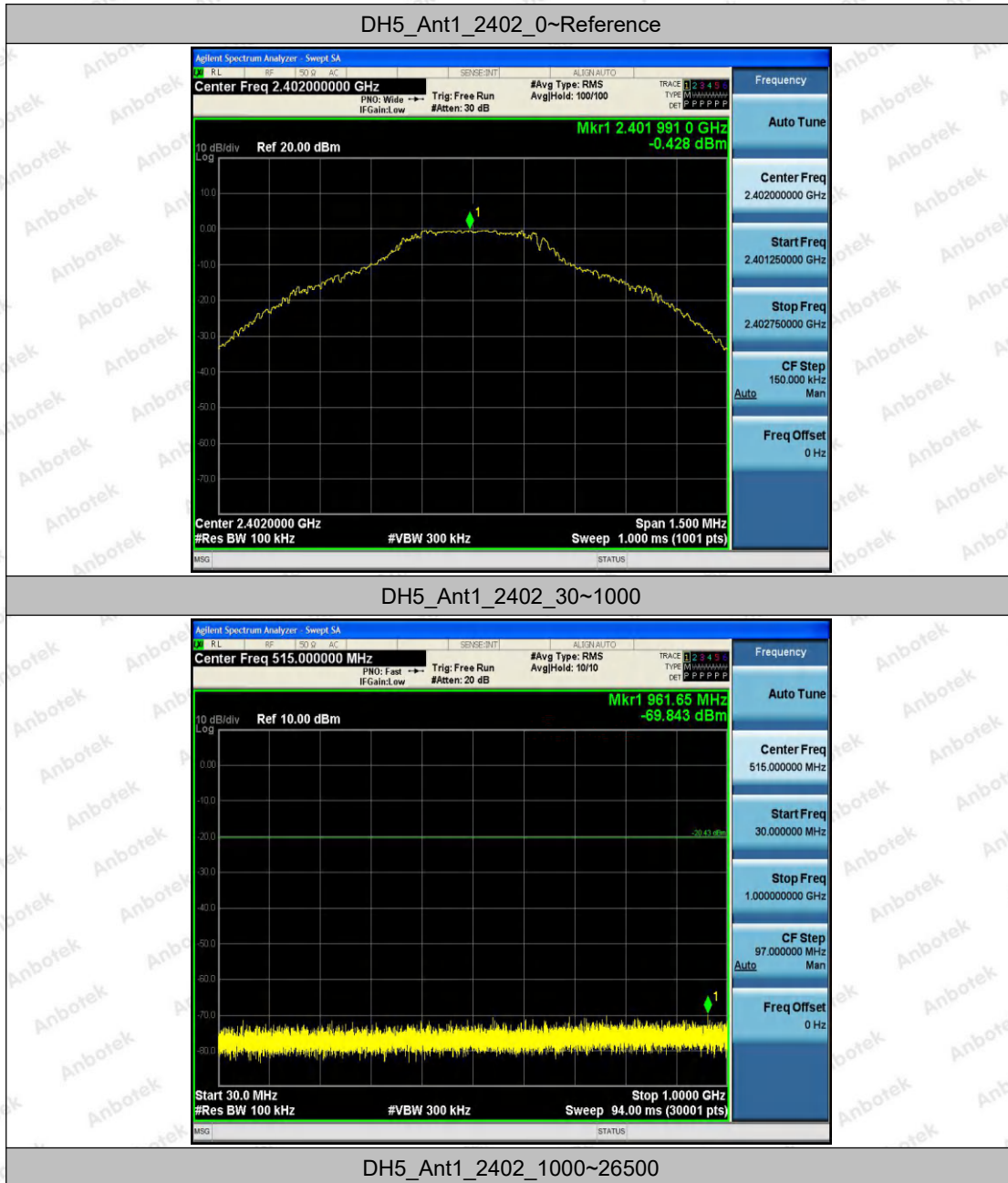
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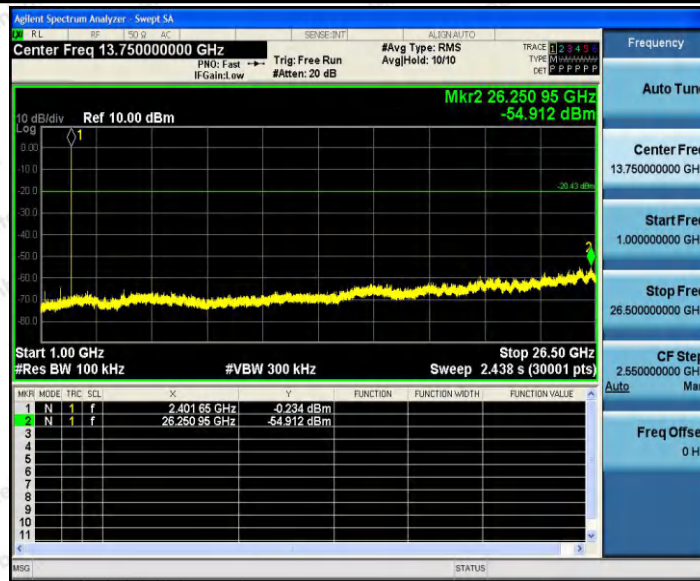
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-69.84	≤-20.43	PASS
			1000~26500	-0.43	-54.91	≤-20.43	PASS
		2441	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-69.77	≤-20.14	PASS
			1000~26500	-0.14	-54.55	≤-20.14	PASS
		2480	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-70.68	≤-19.74	PASS
			1000~26500	0.26	-55.22	≤-19.74	PASS
2DH5	Ant1	2402	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-70.94	≤-21.63	PASS
			1000~26500	-1.63	-55.29	≤-21.63	PASS
		2441	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-69.54	≤-21.16	PASS
			1000~26500	-1.16	-55.14	≤-21.16	PASS
		2480	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-70.04	≤-20.88	PASS
			1000~26500	-0.88	-55.37	≤-20.88	PASS
3DH5	Ant1	2402	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-70.25	≤-20.99	PASS
			1000~26500	-0.99	-55.46	≤-20.99	PASS
		2441	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-70.18	≤-23.3	PASS
			1000~26500	-3.30	-55.33	≤-23.3	PASS
		2480	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-70.27	≤-20.83	PASS
			1000~26500	-0.83	-55.02	≤-20.83	PASS

Test Graphs

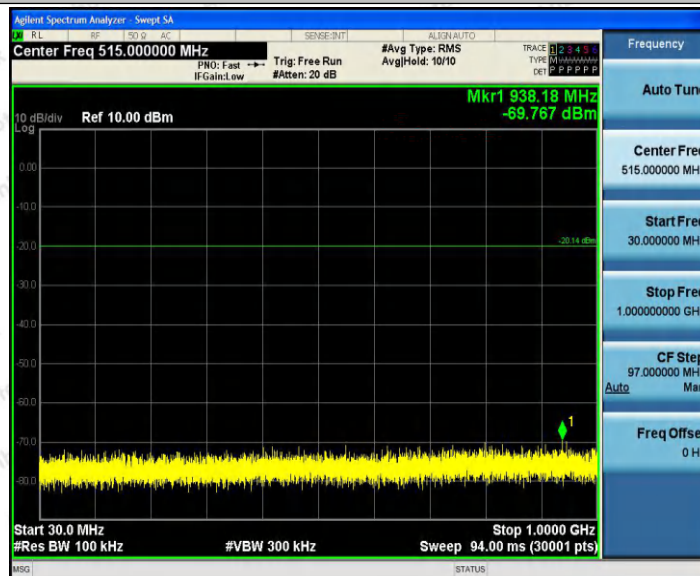




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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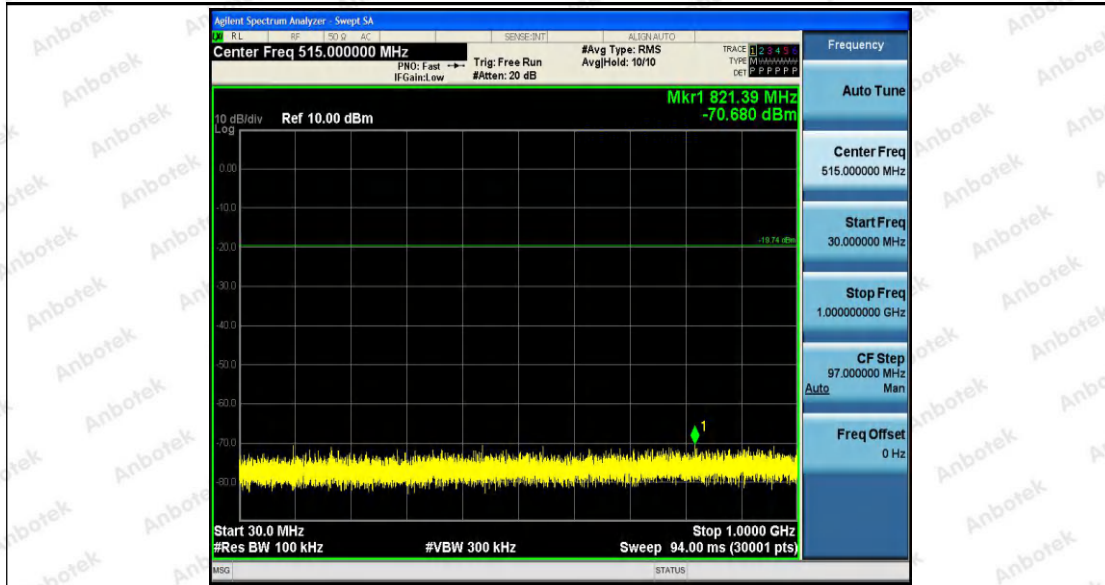
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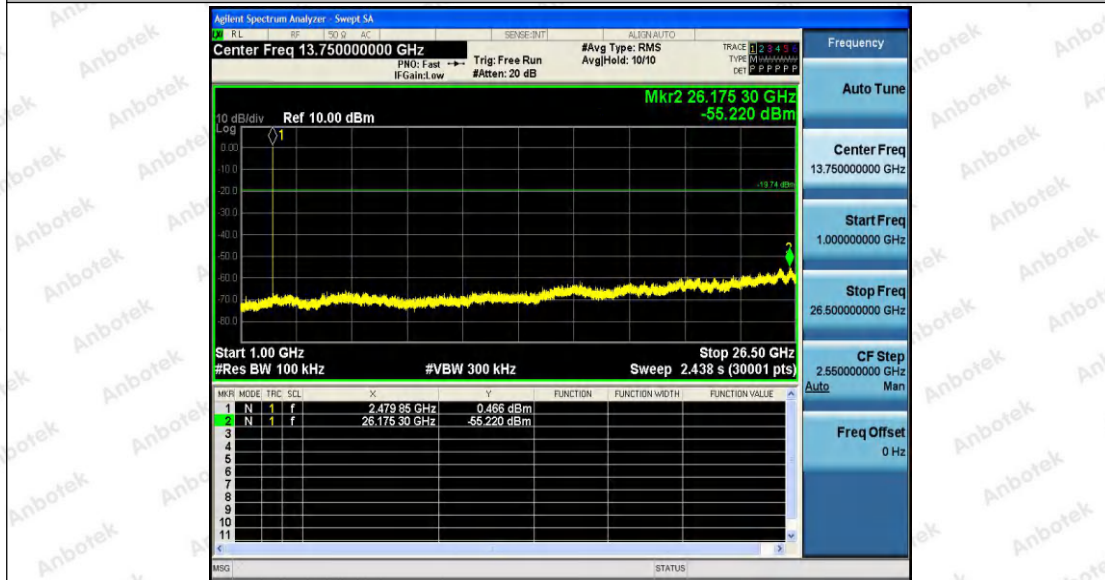
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

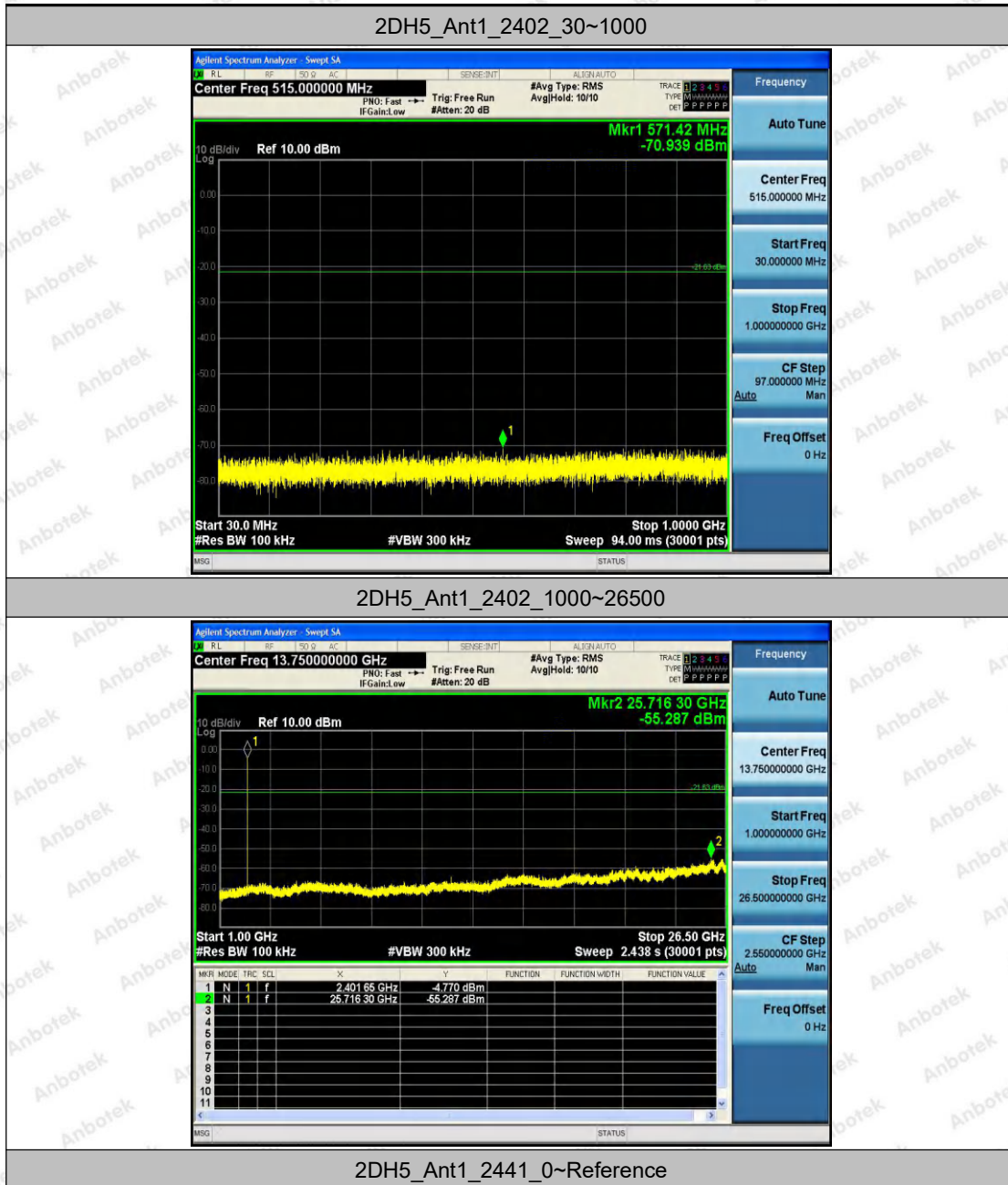


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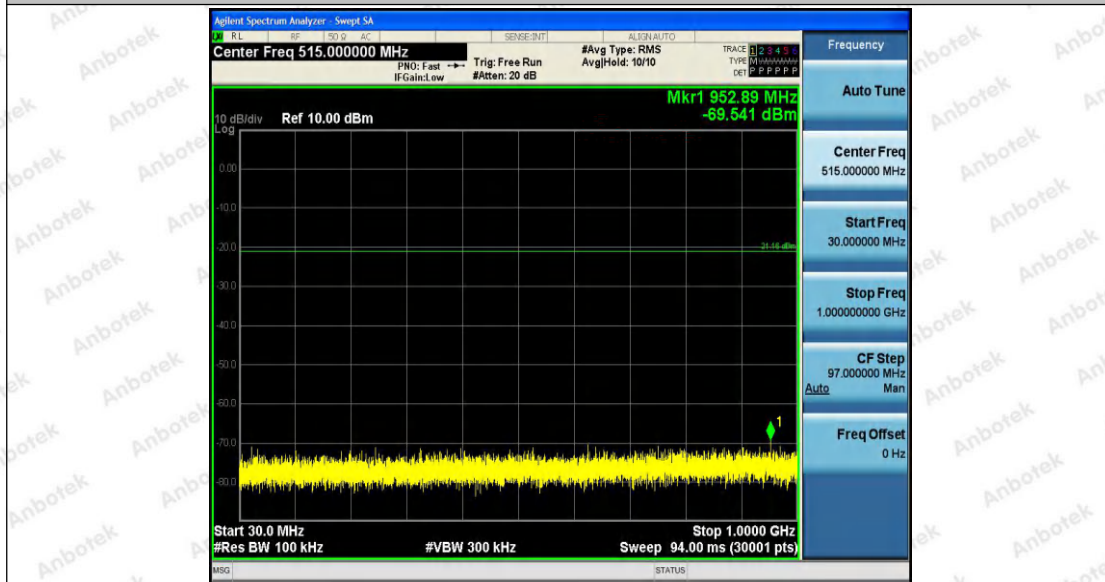
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2DH5_Ant1_2441_30~1000



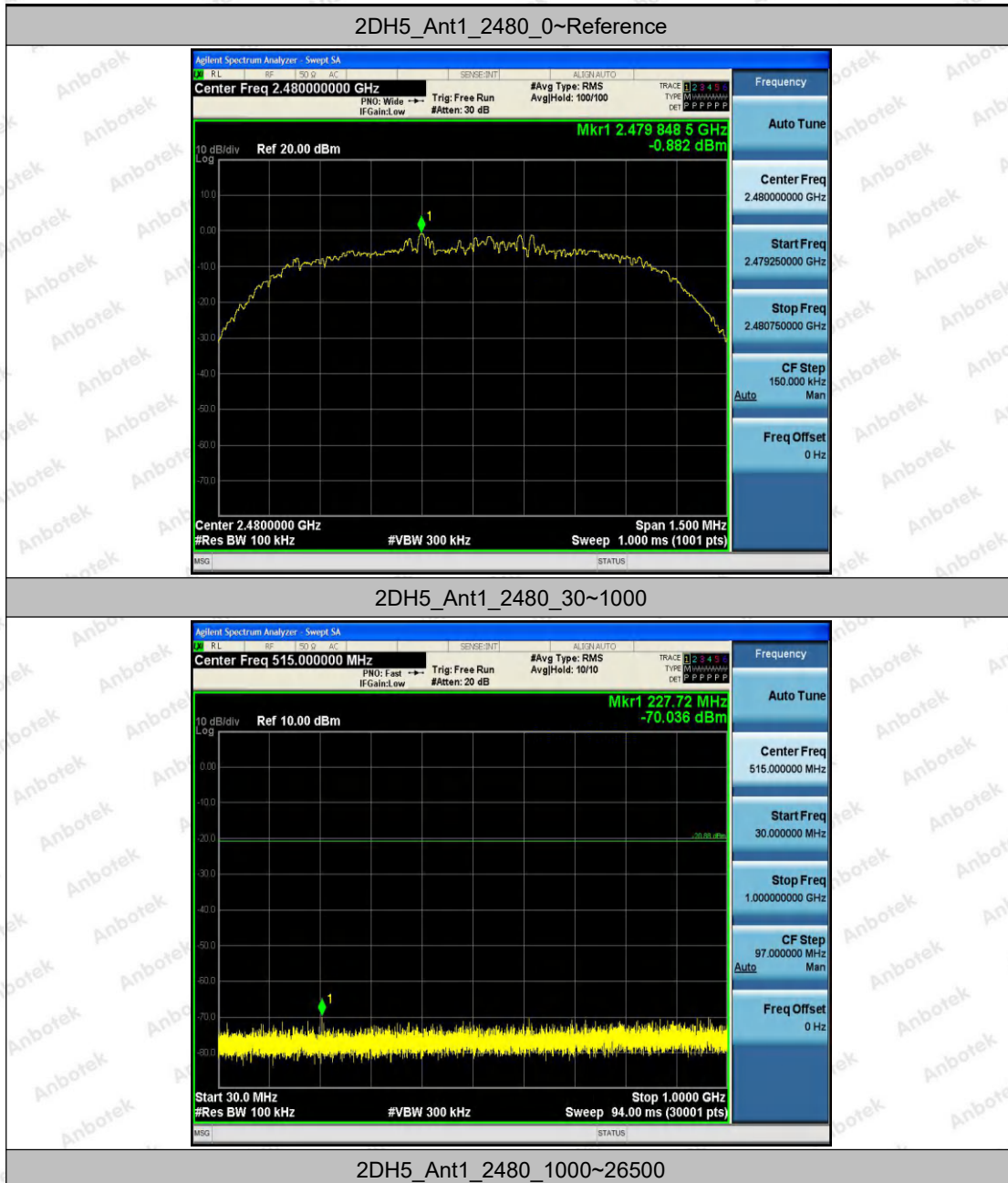
2DH5_Ant1_2441_1000~26500



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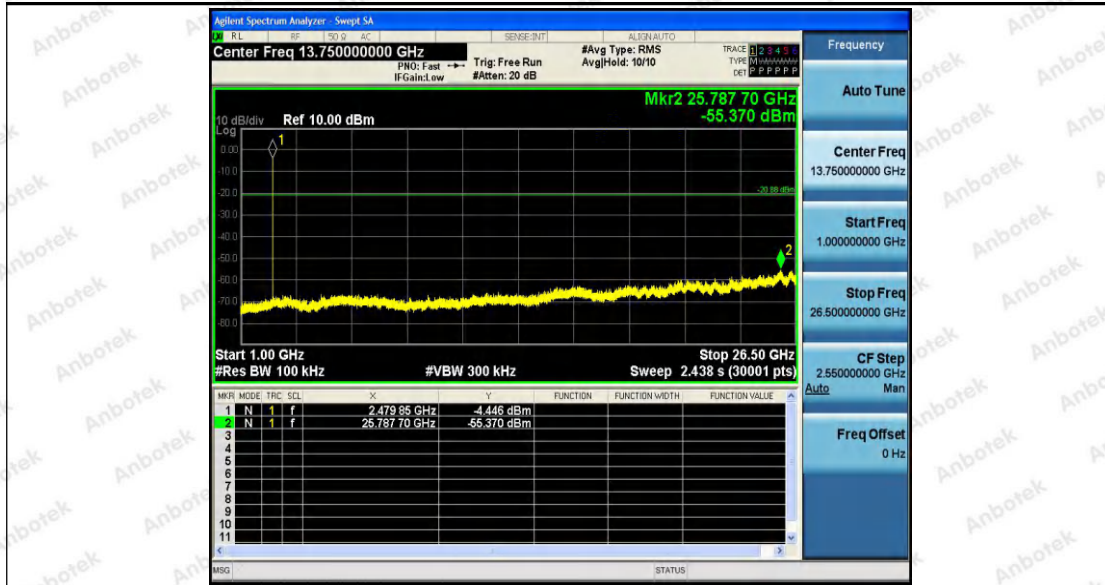
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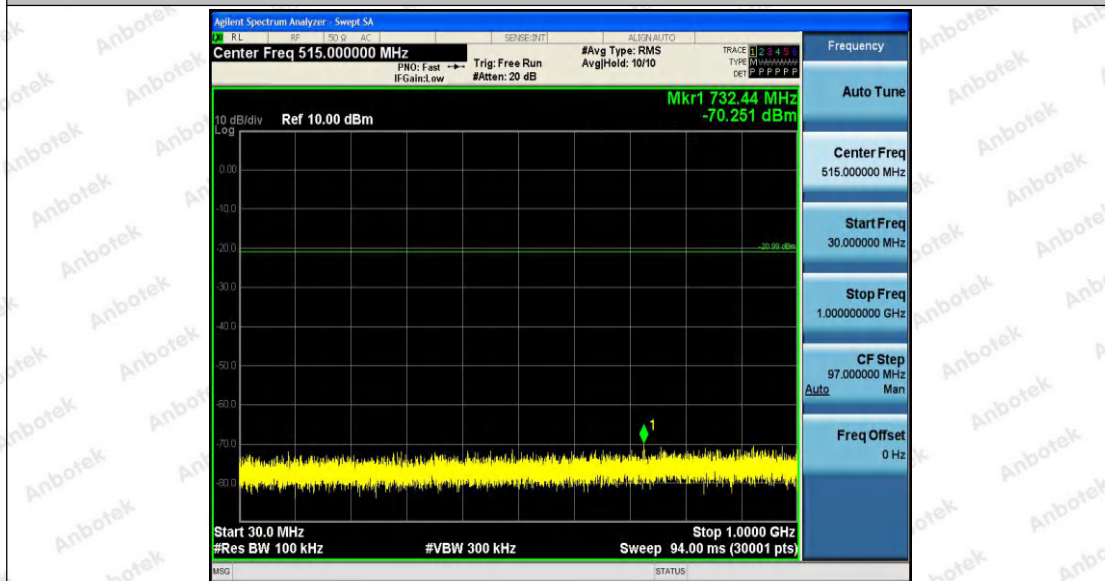
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

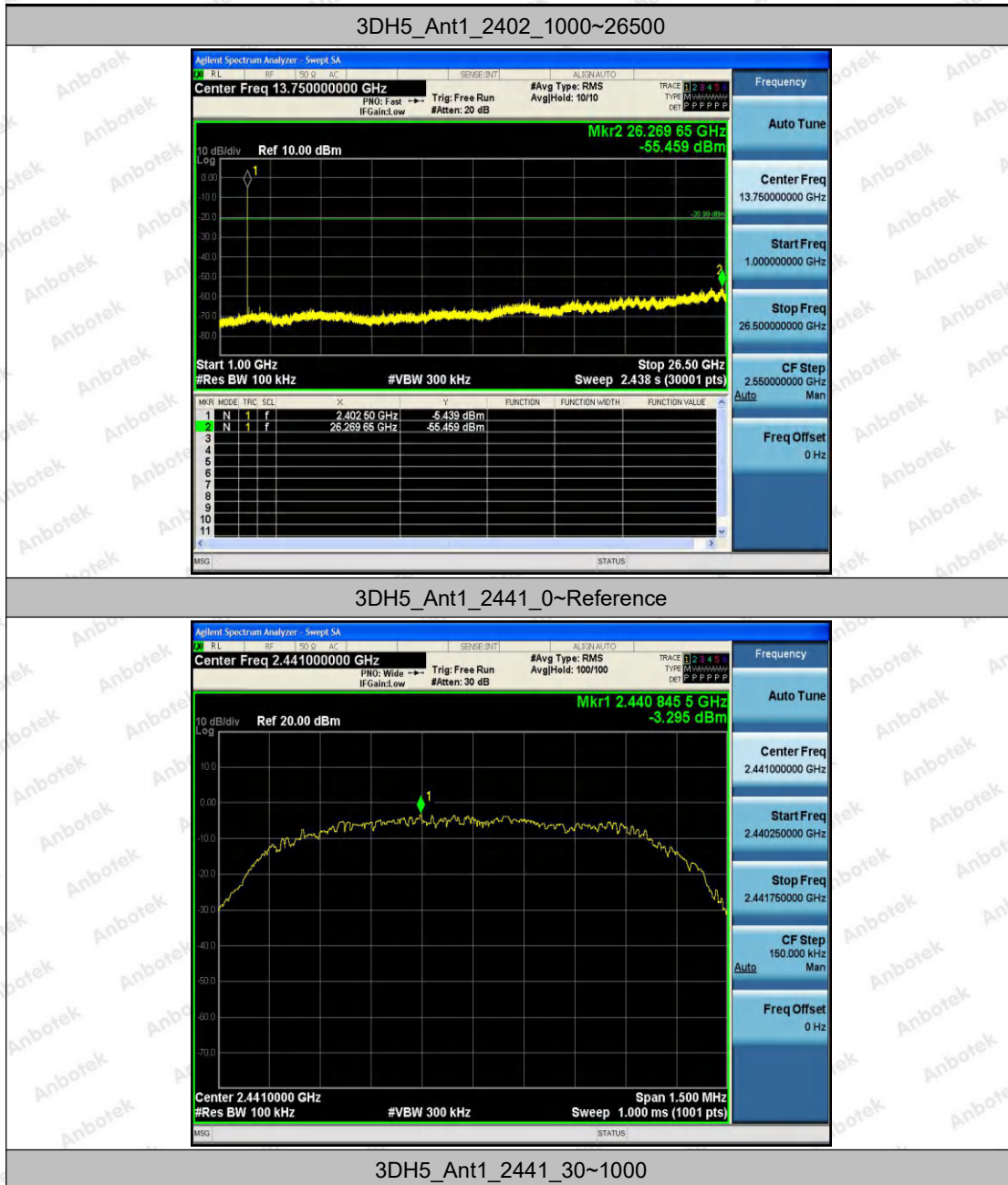


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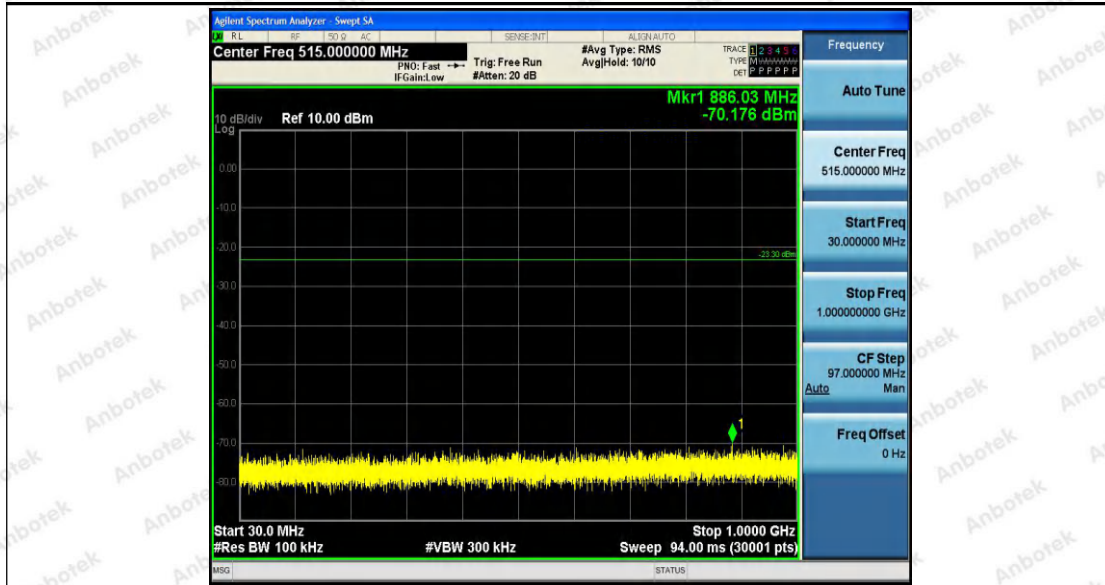


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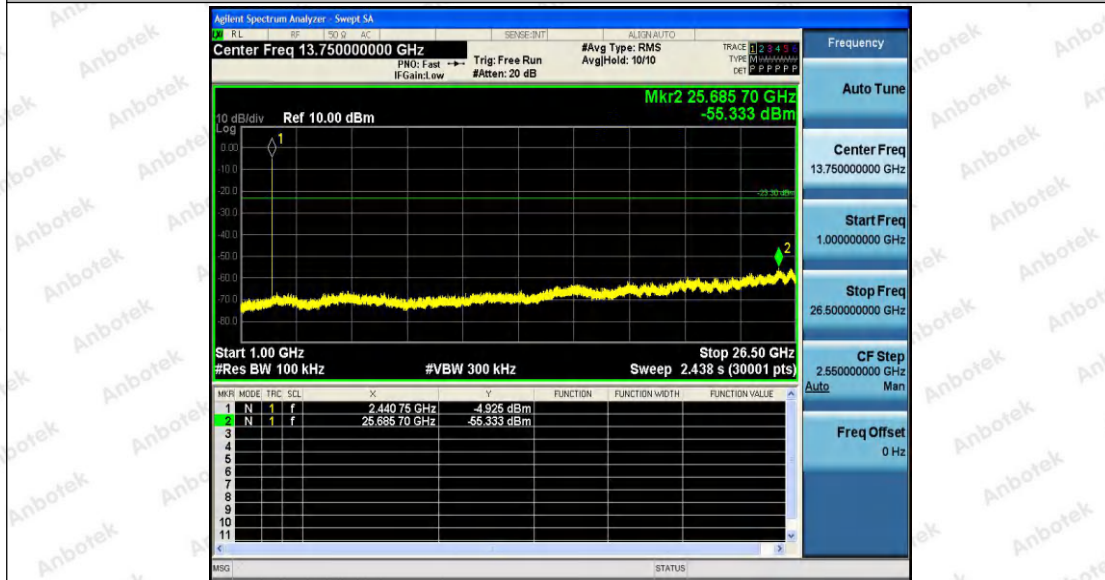
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

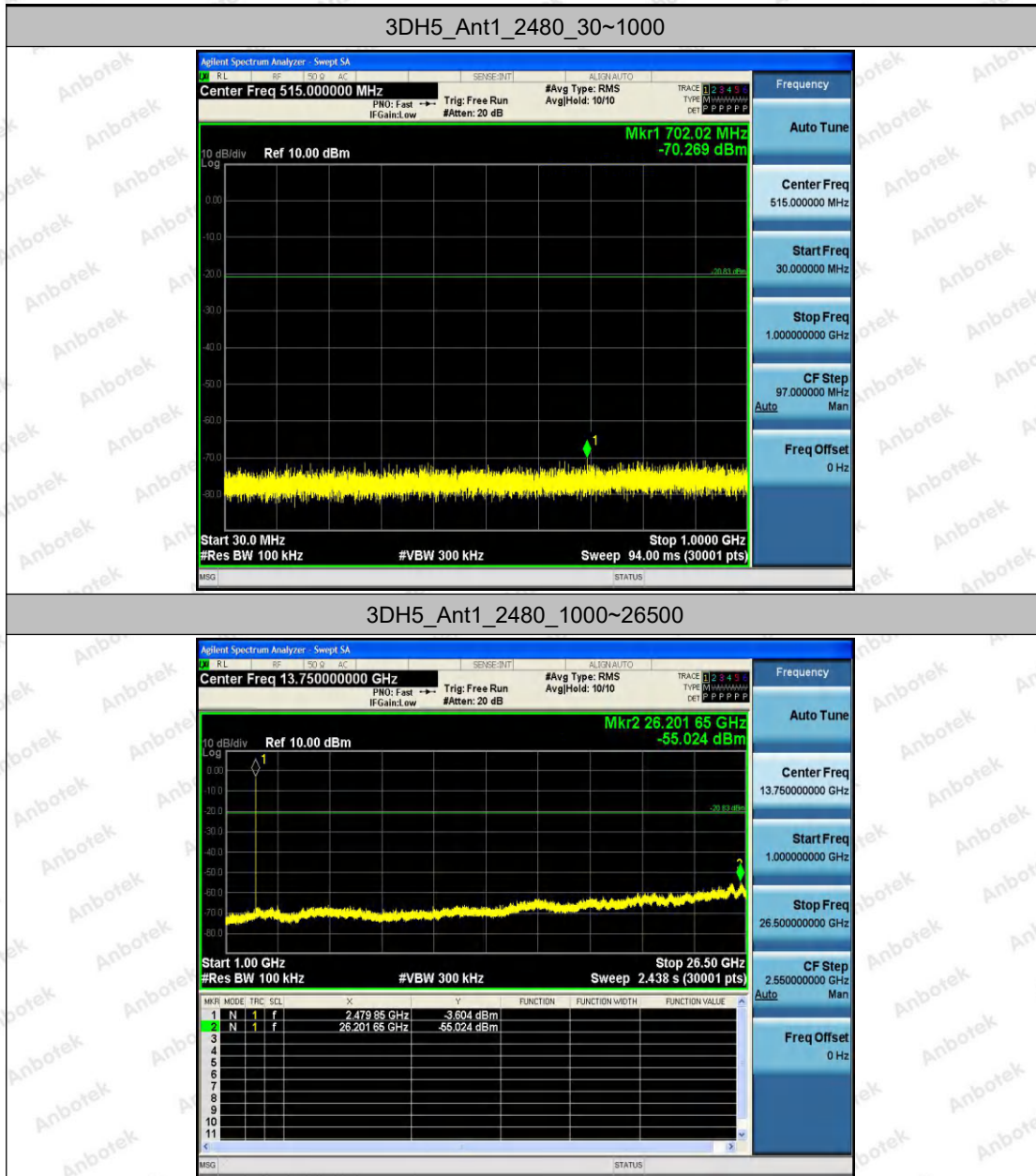


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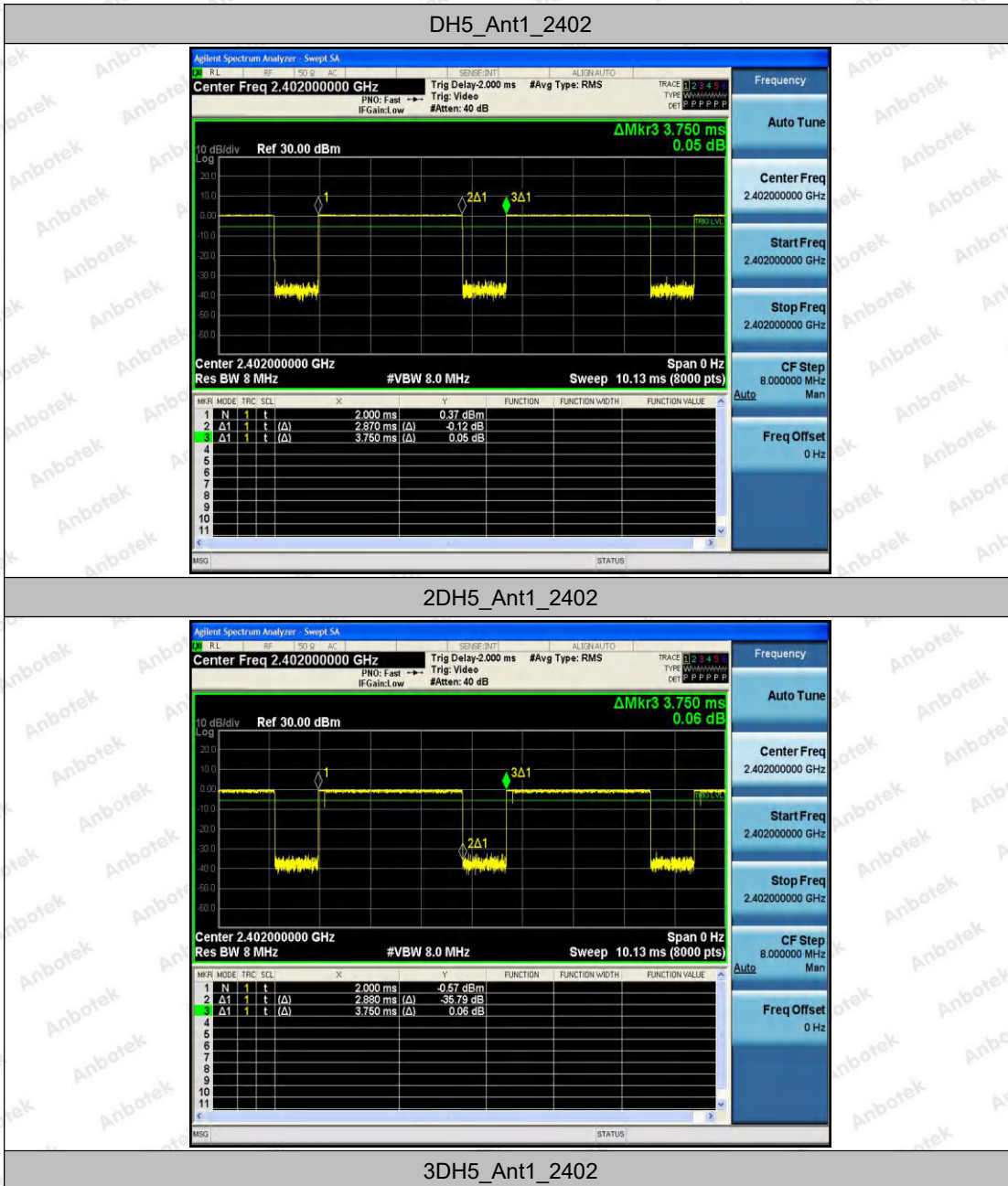
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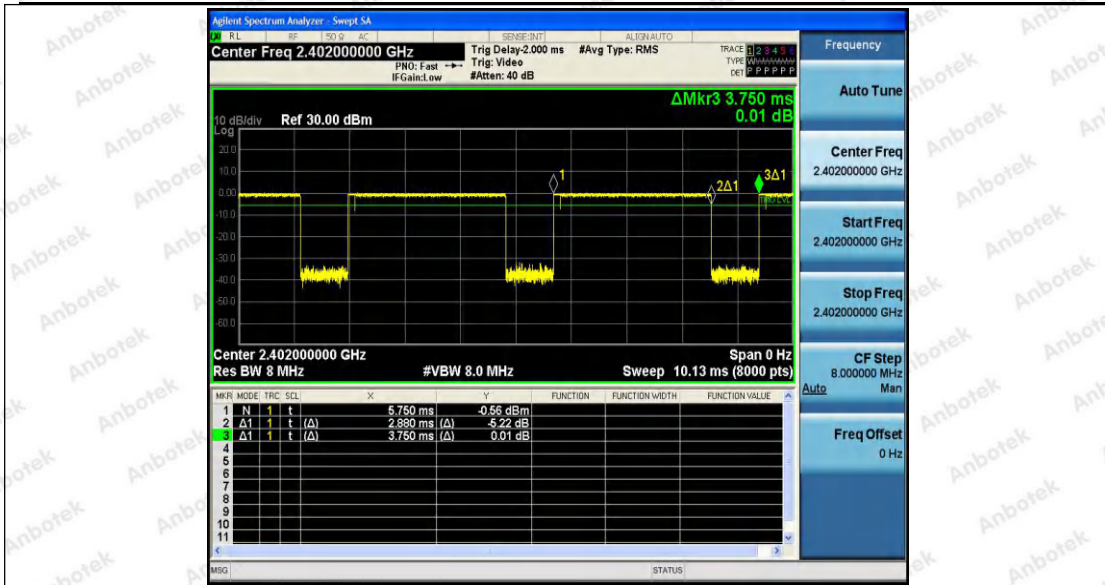
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs


2DH5_Ant1_2402
3DH5_Ant1_2402



---End---