

Appendix Test Data

Project No.:	18220WC10152301	Test Date:	2021.7.9
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	0.948	2401.535	2402.483	---	PASS
		2441	0.939	2440.535	2441.474	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.323	2401.334	2402.657	---	PASS
		2441	1.320	2440.334	2441.654	---	PASS
		2480	1.317	2479.334	2480.651	---	PASS
3DH5	Ant1	2402	1.305	2401.340	2402.645	---	PASS
		2441	1.272	2440.346	2441.618	---	PASS
		2480	1.296	2479.340	2480.636	---	PASS

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline

400-003-0500

www.anbotek.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com





Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89773	2401.551	2402.449	---	PASS
		2441	0.89242	2440.550	2441.443	---	PASS
		2480	0.88979	2479.550	2480.440	---	PASS
2DH5	Ant1	2402	1.1923	2401.398	2402.590	---	PASS
		2441	1.1875	2440.400	2441.588	---	PASS
		2480	1.1848	2479.400	2480.585	---	PASS
3DH5	Ant1	2402	1.2130	2401.379	2402.592	---	PASS
		2441	1.1949	2440.393	2441.588	---	PASS
		2480	1.1954	2479.391	2480.586	---	PASS

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline

400-003-0500

www.anbotek.com



2DH5_Ant1_2402



2DH5_Ant1_2441



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com

Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.6	<=20.97	PASS
		2441	1.64	<=20.97	PASS
		2480	1.69	<=20.97	PASS
2DH5	Ant1	2402	0.98	<=20.97	PASS
		2441	0.98	<=20.97	PASS
		2480	0.94	<=20.97	PASS
3DH5	Ant1	2402	1.07	<=20.97	PASS
		2441	0.94	<=20.97	PASS
		2480	0.98	<=20.97	PASS

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline
400-003-0500
www.anbotek.com



2DH5_Ant1_2402



2DH5_Ant1_2441



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

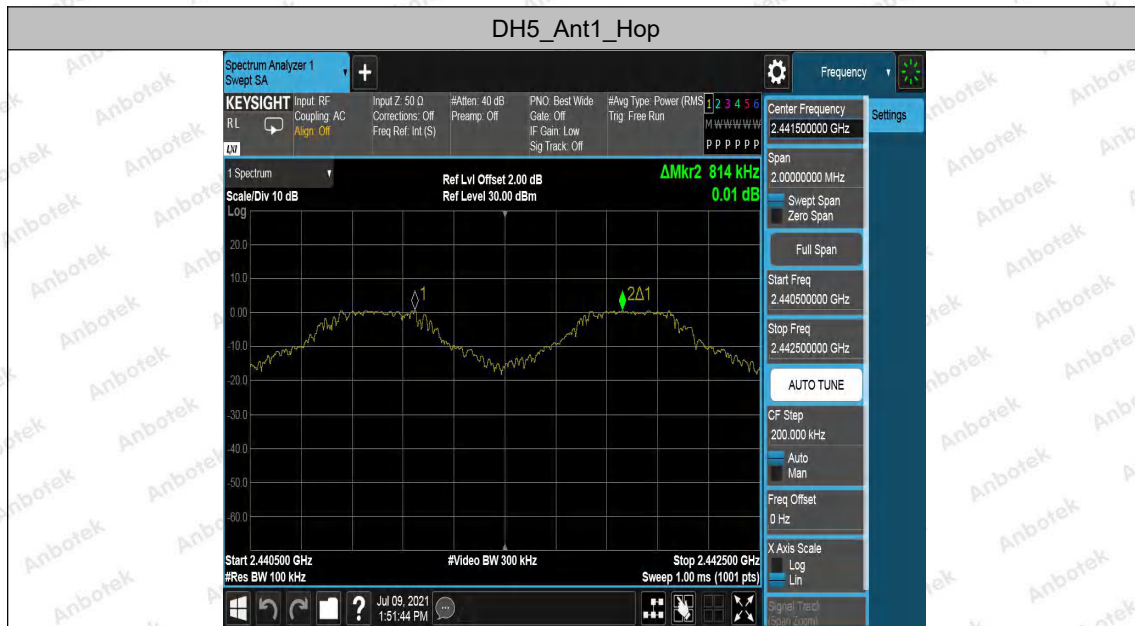
Hotline
400-003-0500
www.anbotech.com

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.814	≥ 0.632	PASS
2DH5	Ant1	Hop	1.018	≥ 0.882	PASS
3DH5	Ant1	Hop	0.996	≥ 0.870	PASS

Test Graphs





Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com

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	120	0.196	<=0.4	PASS
DH5	Ant1	Hop	2.88	60	0.173	<=0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.123	<=0.4	PASS
2DH3	Ant1	Hop	1.64	150	0.245	<=0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	<=0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
3DH3	Ant1	Hop	1.63	190	0.31	<=0.4	PASS
3DH5	Ant1	Hop	2.89	60	0.173	<=0.4	PASS

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline

400-003-0500

www.anbotek.com

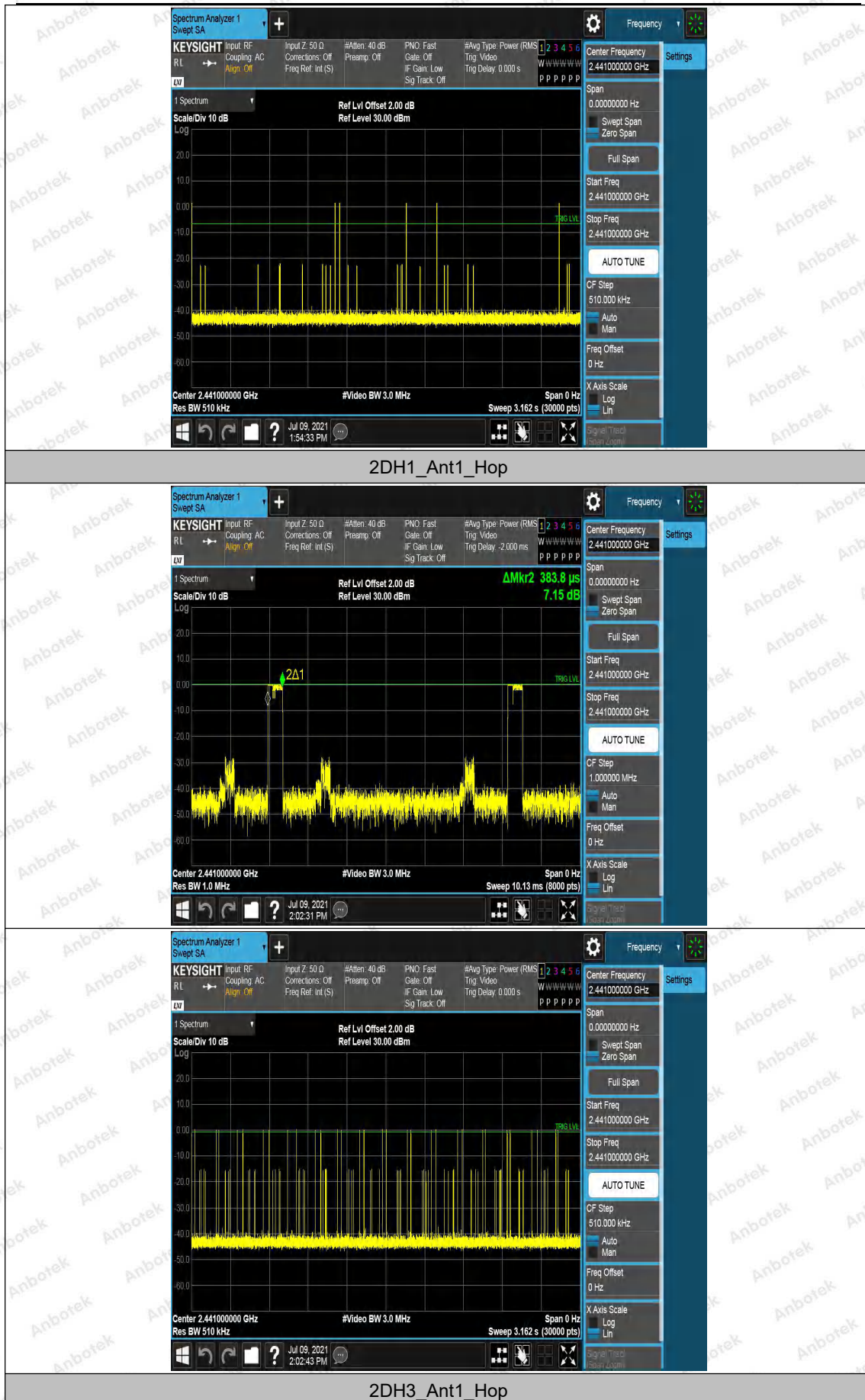


Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

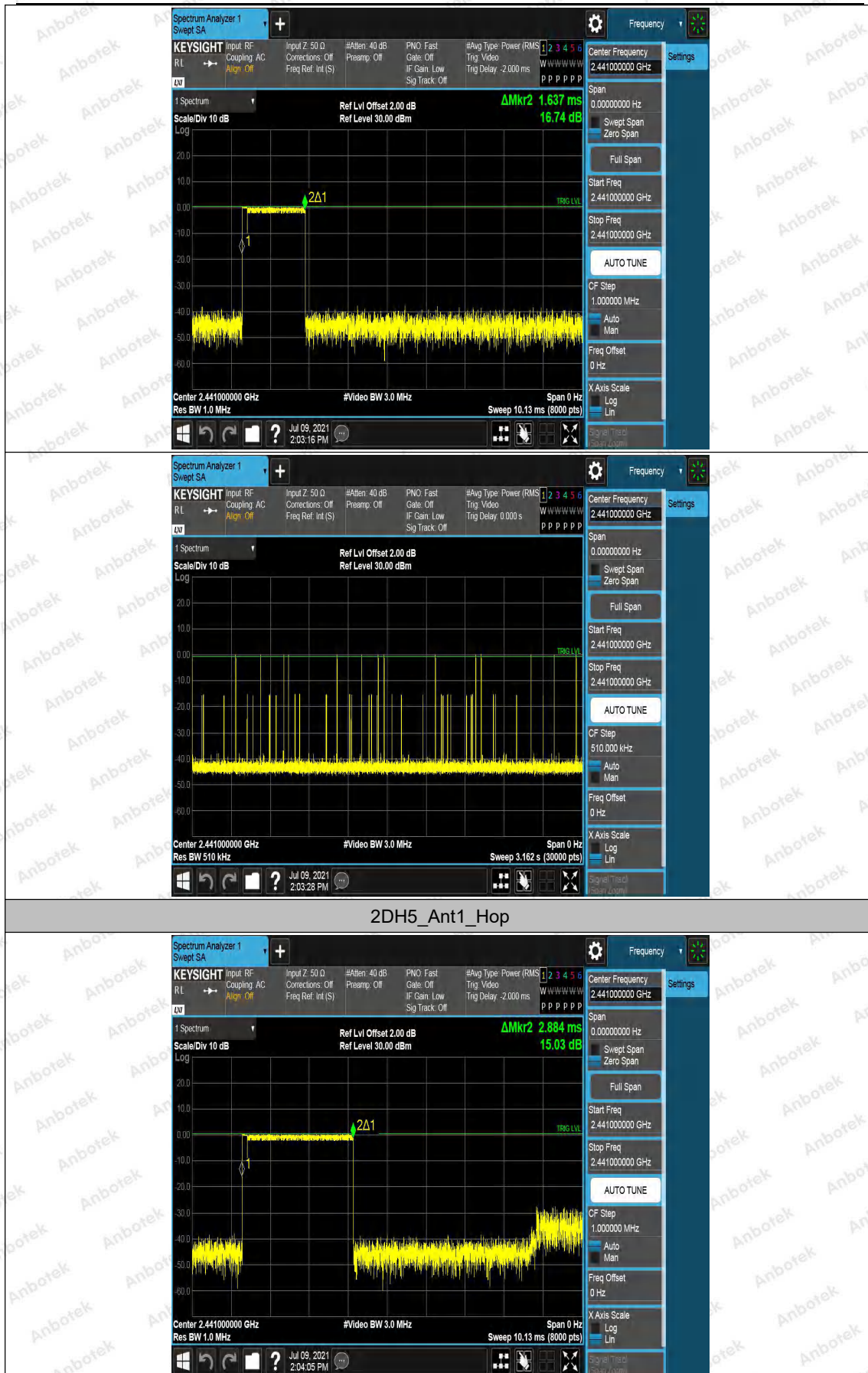
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com



Hotline

400-003-0500

www.anbotech.com

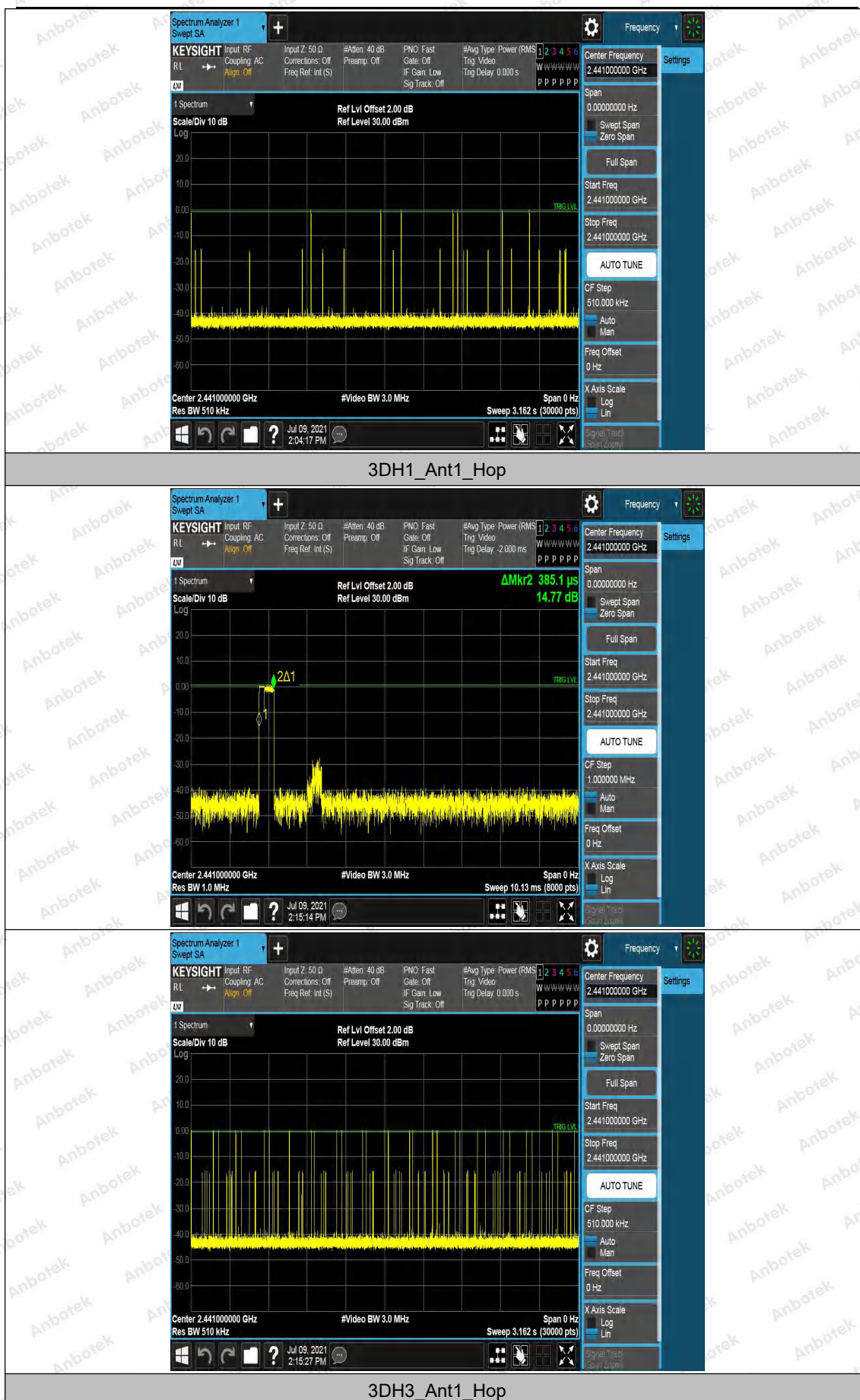


Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com

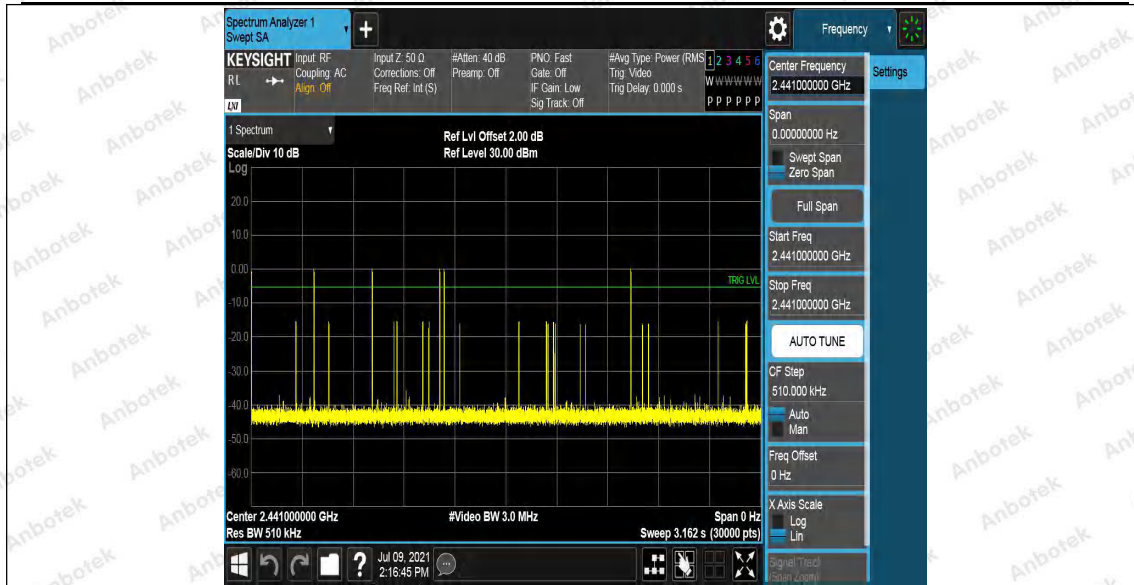


Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

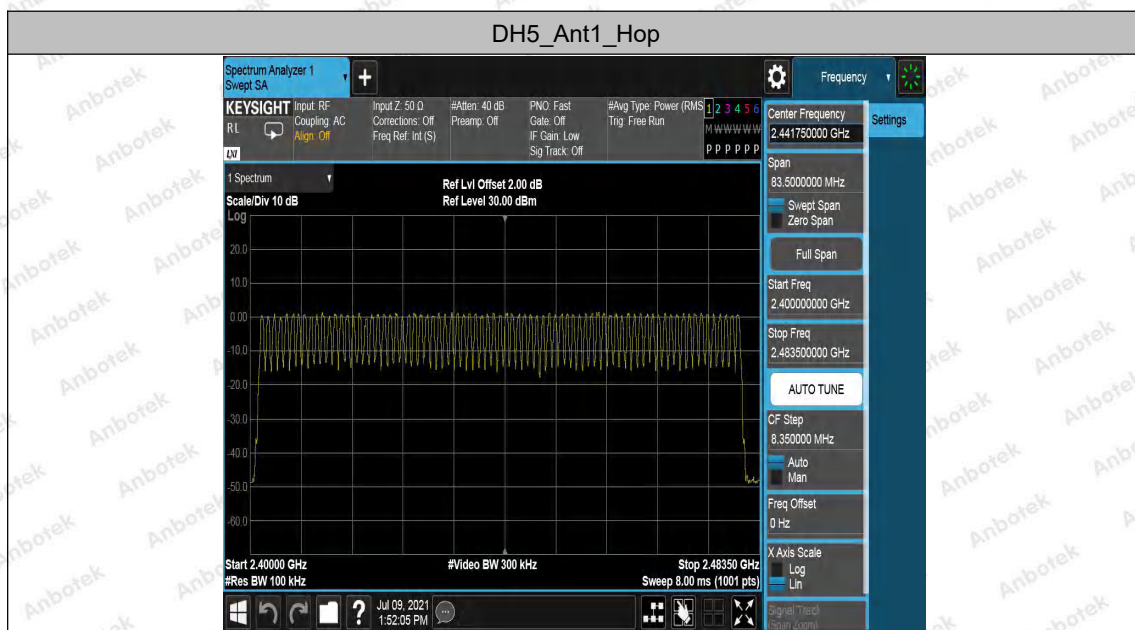
Hotline
400-003-0500
www.anbotech.com

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





Shenzhen Anbotech Compliance Laboratory Limited

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

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

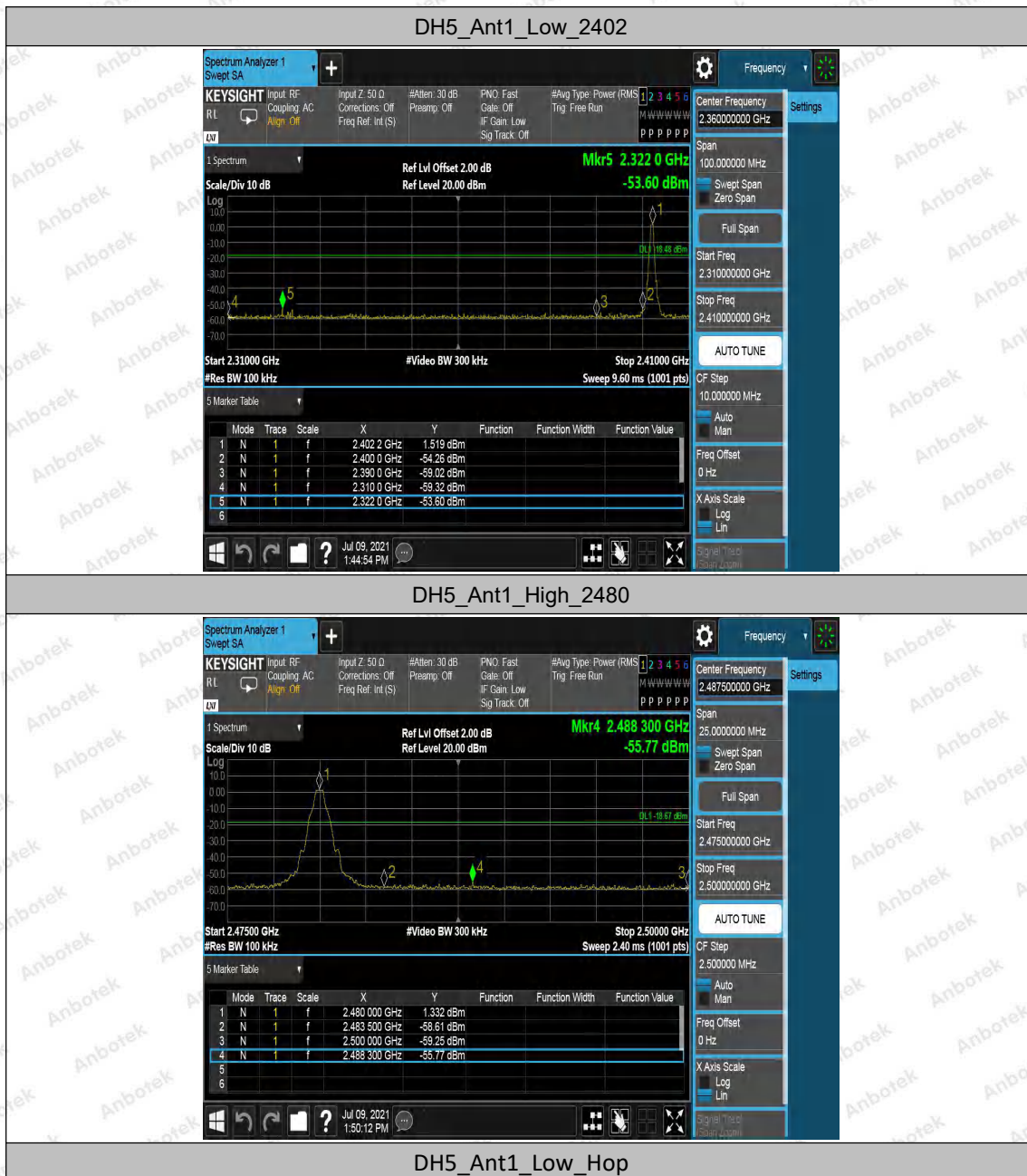
Hotline
400-003-0500
www.anbotech.com

Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.52	-53.6	≤ -18.48	PASS
		High	2480	1.33	-55.77	≤ -18.67	PASS
		Low	Hop	-0.43	-58.84	≤ -20.43	PASS
		High	Hop	0.05	-62.62	≤ -19.95	PASS
2DH5	Ant1	Low	2402	0.26	-54.56	≤ -19.74	PASS
		High	2480	0.00	-56.1	≤ -20	PASS
		Low	Hop	-2.60	-59.77	≤ -22.6	PASS
		High	Hop	-3.62	-61.67	≤ -23.62	PASS
3DH5	Ant1	Low	2402	-0.25	-54.11	≤ -20.25	PASS
		High	2480	-0.19	-56.48	≤ -20.19	PASS
		Low	Hop	-4.10	-58.89	≤ -24.1	PASS
		High	Hop	-3.83	-61.5	≤ -23.83	PASS

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

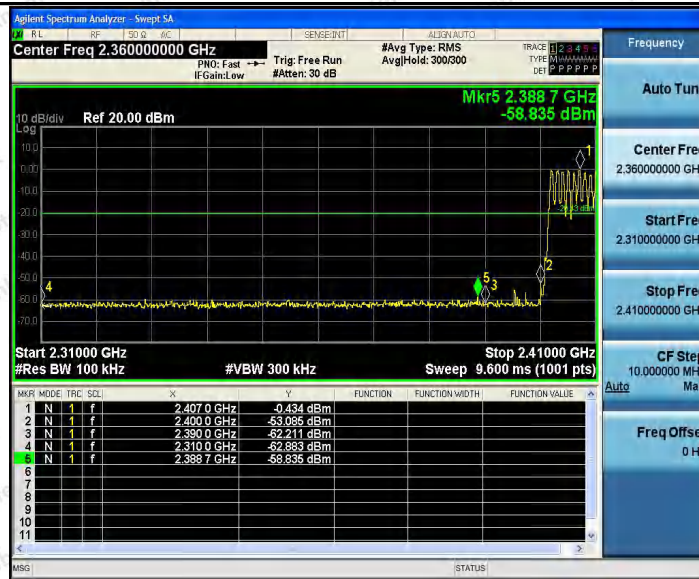
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



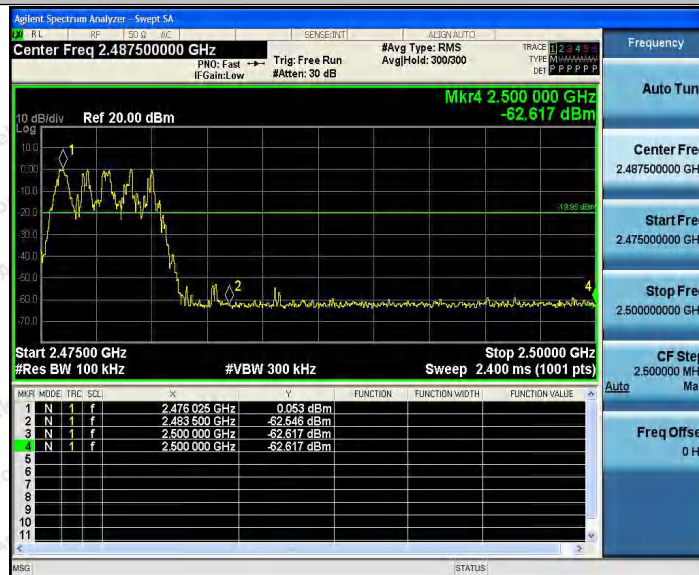
Hotline

400-003-0500

www.anbotek.com



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

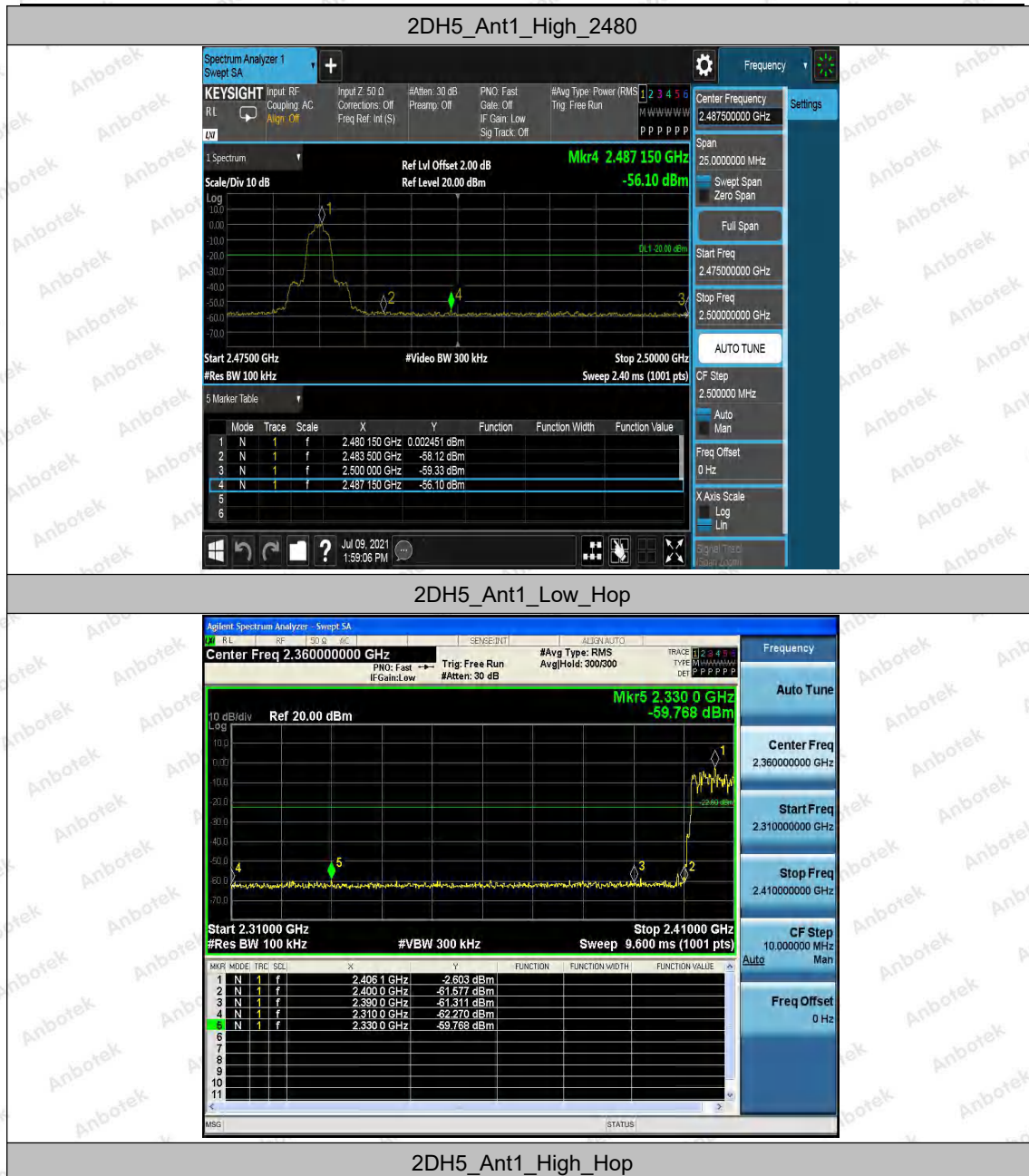


Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com





3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

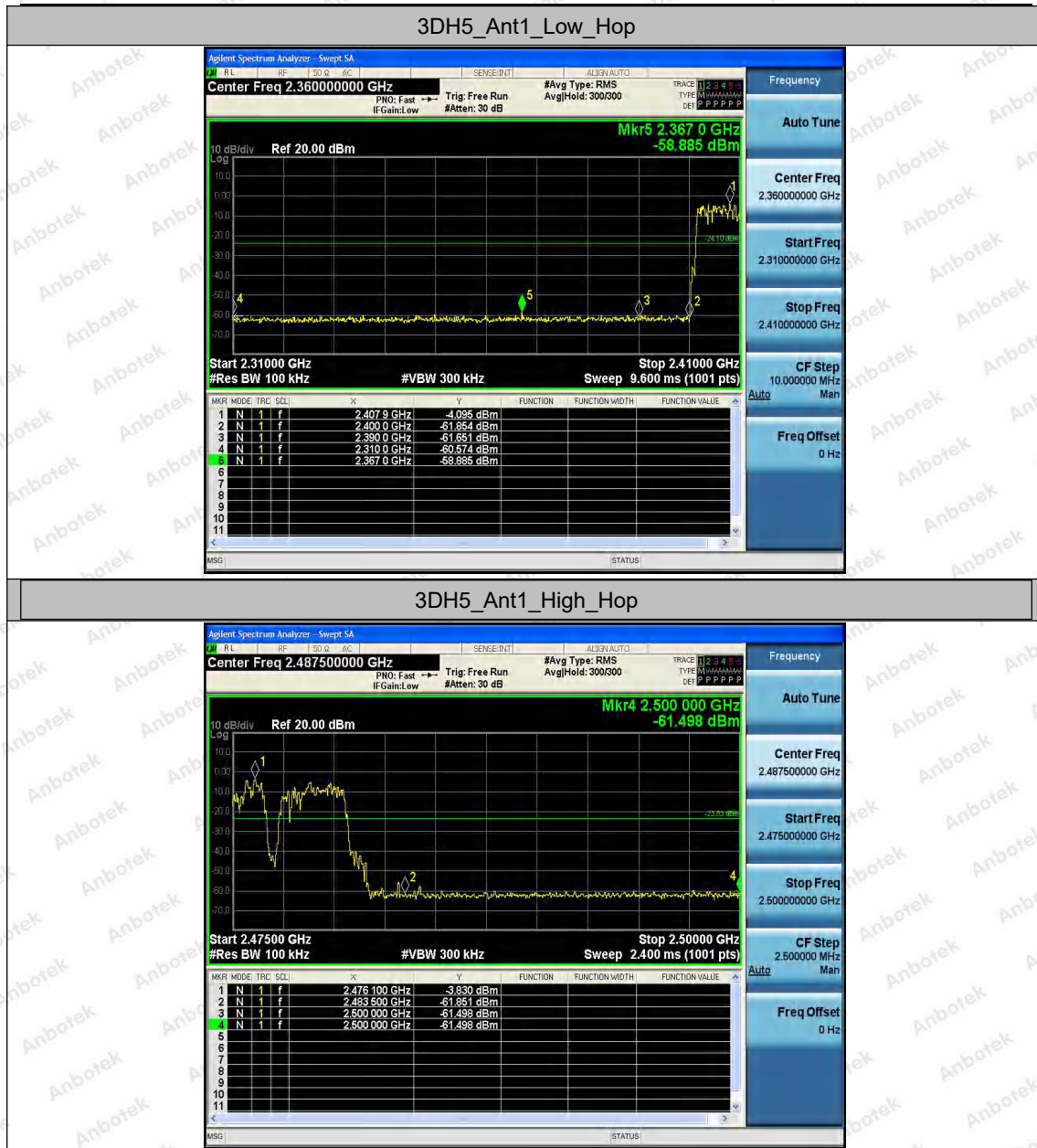


Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-68.01	<=-18.47	PASS
			1000~26500	1.53	-46.84	<=-18.47	PASS
		2441	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-70.28	≤-21.68	PASS
			1000~26500	-1.68	-40.91	≤-21.68	PASS
		2480	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-66.36	<=-18.77	PASS
			1000~26500	1.23	-49.43	<=-18.77	PASS
2DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-68.71	<=-19.88	PASS
			1000~26500	0.12	-46.54	<=-19.88	PASS
		2441	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-61.04	≤-22.55	PASS
			1000~26500	-2.55	-44.84	≤-22.55	PASS
		2480	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-67.64	<=-20.08	PASS
			1000~26500	-0.08	-54.68	<=-20.08	PASS
3DH5	Ant1	2402	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-67.53	<=-19.8	PASS
			1000~26500	0.20	-45.58	<=-19.8	PASS
		2441	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-69.9	≤-23.3	PASS
			1000~26500	-3.30	-44.99	≤-23.3	PASS
		2480	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-65.15	<=-20.18	PASS
			1000~26500	-0.18	-55.34	<=-20.18	PASS

Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline
400-003-0500
www.anbotek.com

Test Graphs



Shenzhen Anbotek Compliance Laboratory Limited

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

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

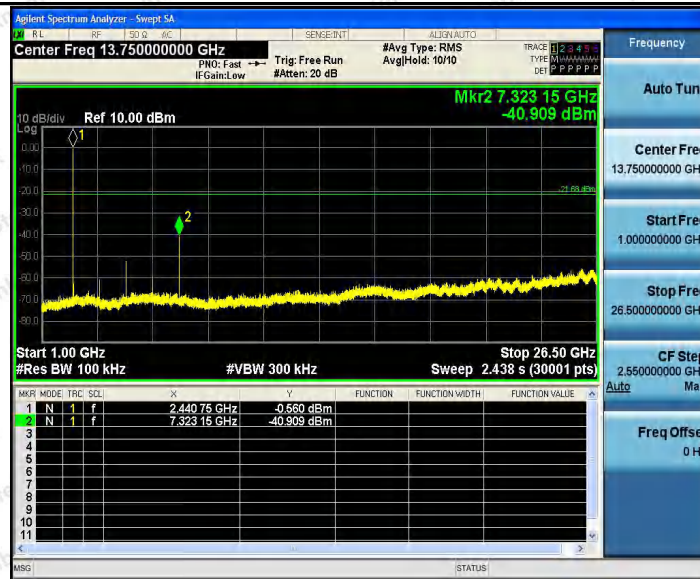
Hotline
400-003-0500
www.anbotek.com



Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
 400-003-0500
 www.anbotech.com



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

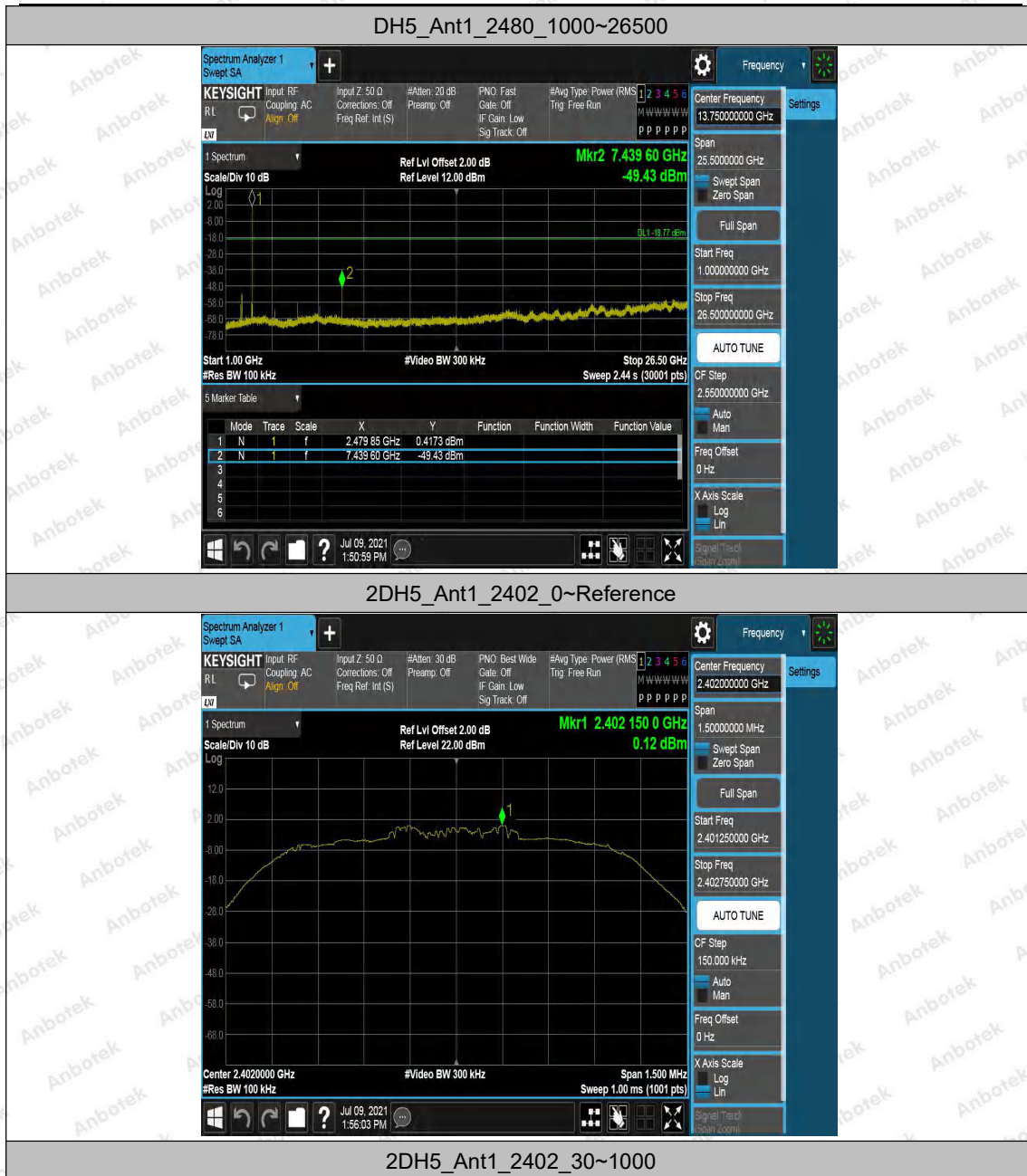


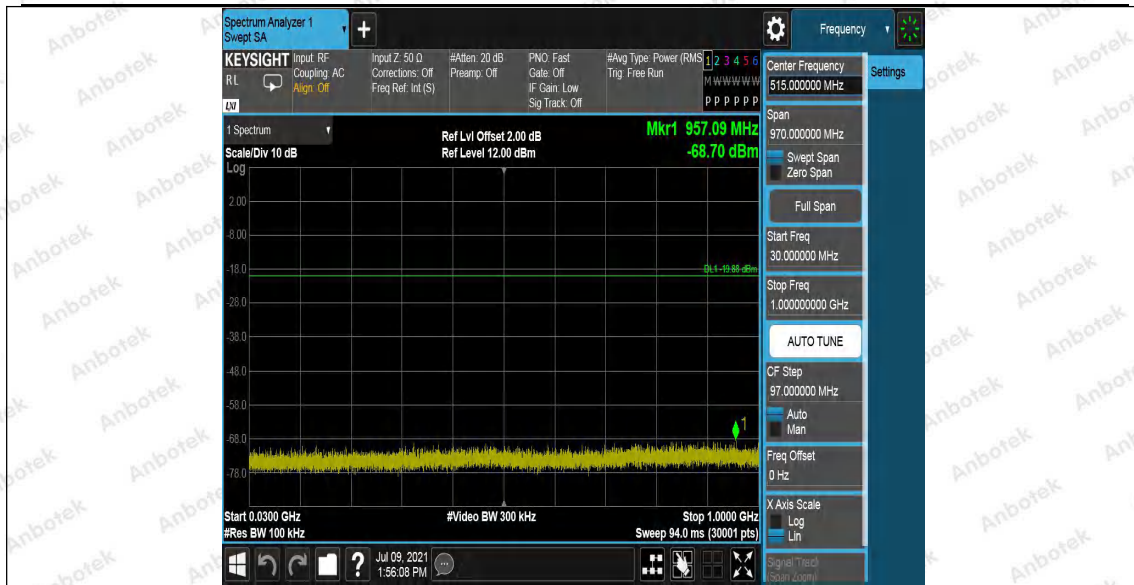
Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com





2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

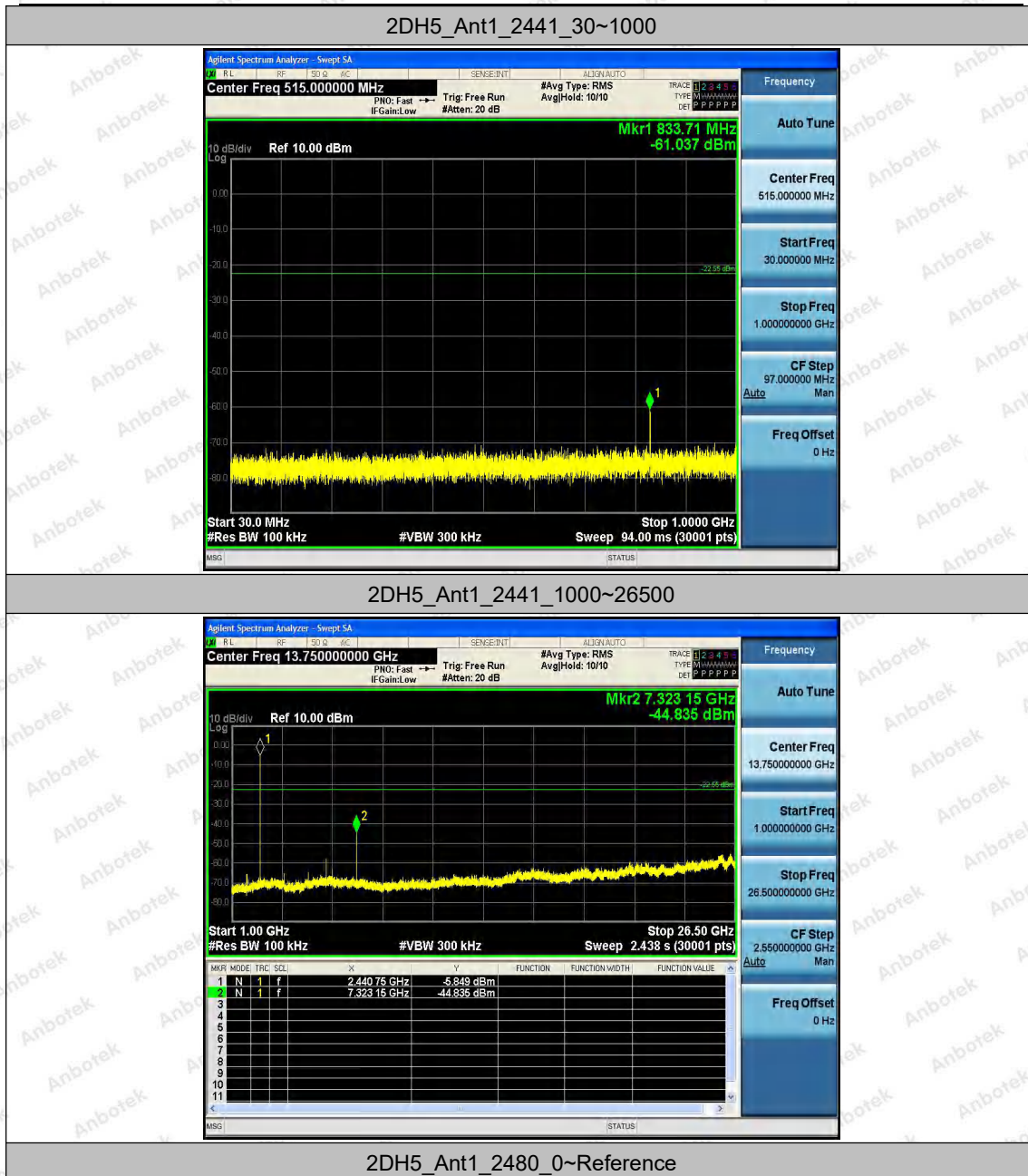


Shenzhen Anbotech Compliance Laboratory Limited

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

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

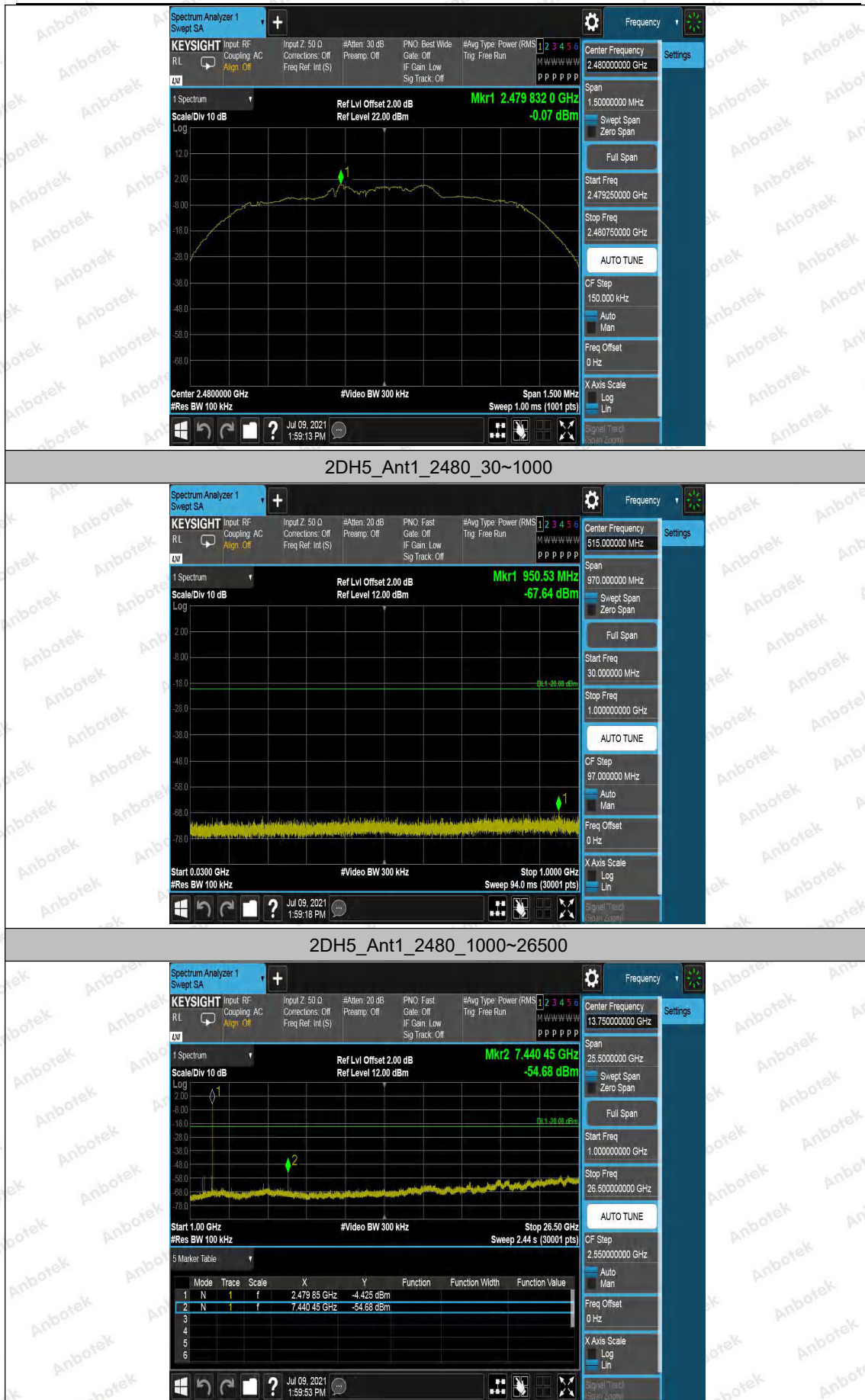
Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
400-003-0500
www.anbotek.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com

**Shenzhen Anbotech Compliance Laboratory Limited**

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

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



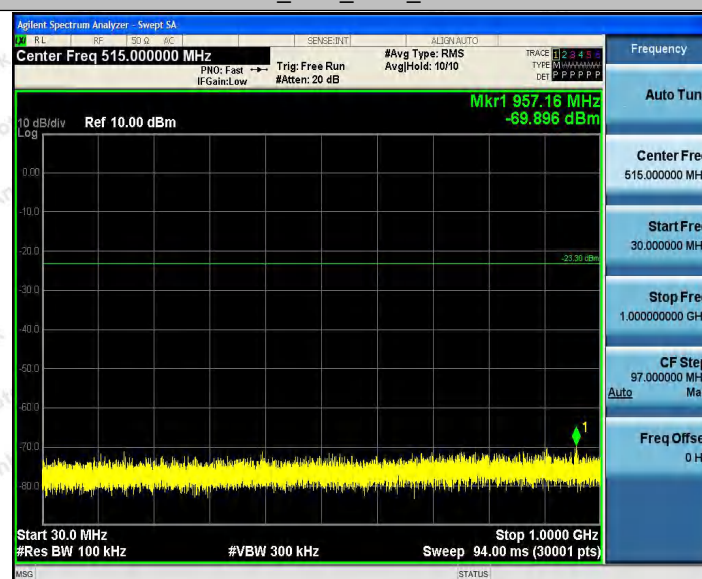
Hotline
400-003-0500
www.anbotech.com



3DH5 Ant1 2441 0~Reference



3DH5 Ant1 2441 30~1000



Shenzhen Anbotek Compliance Laboratory Limited

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

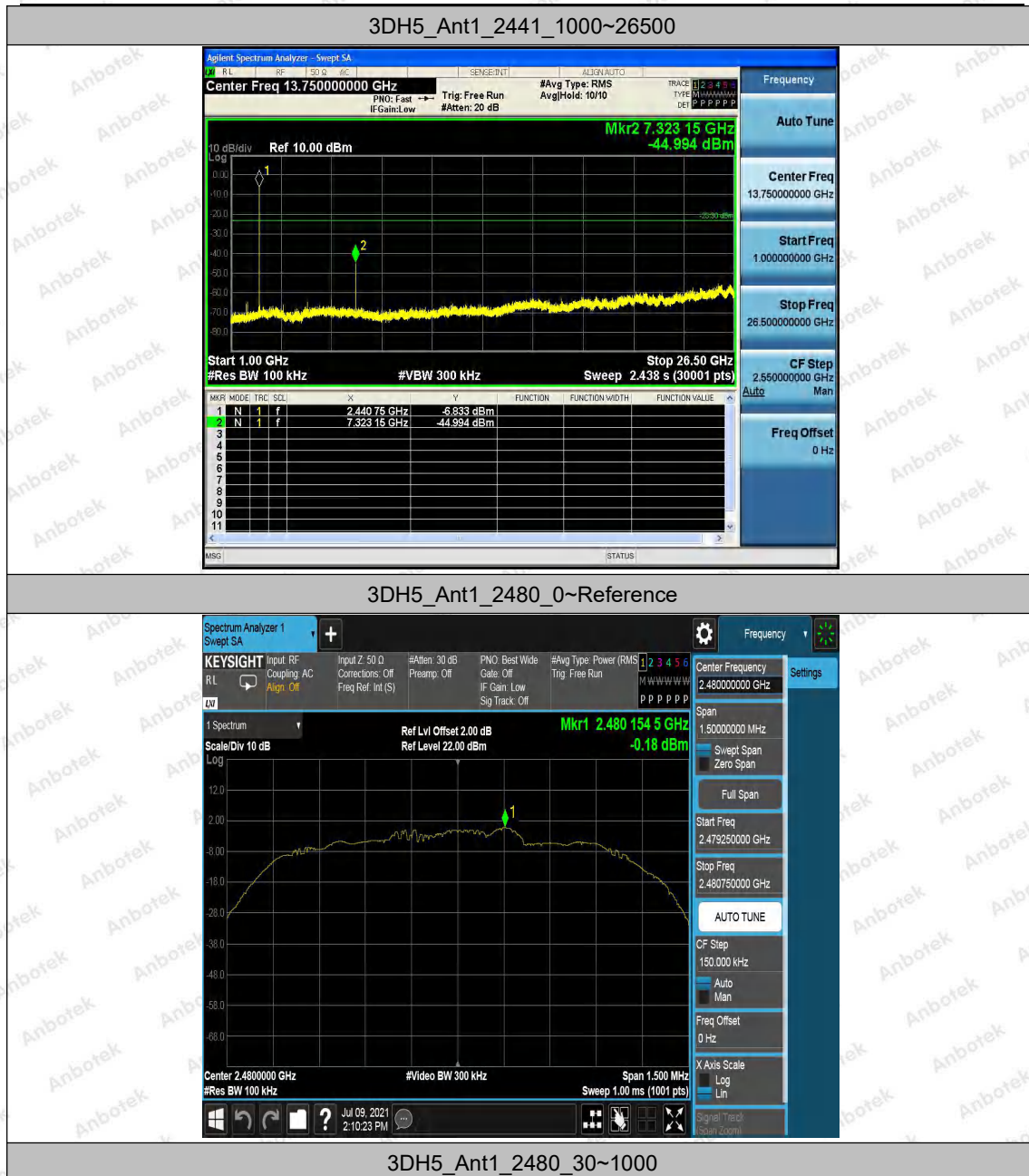
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

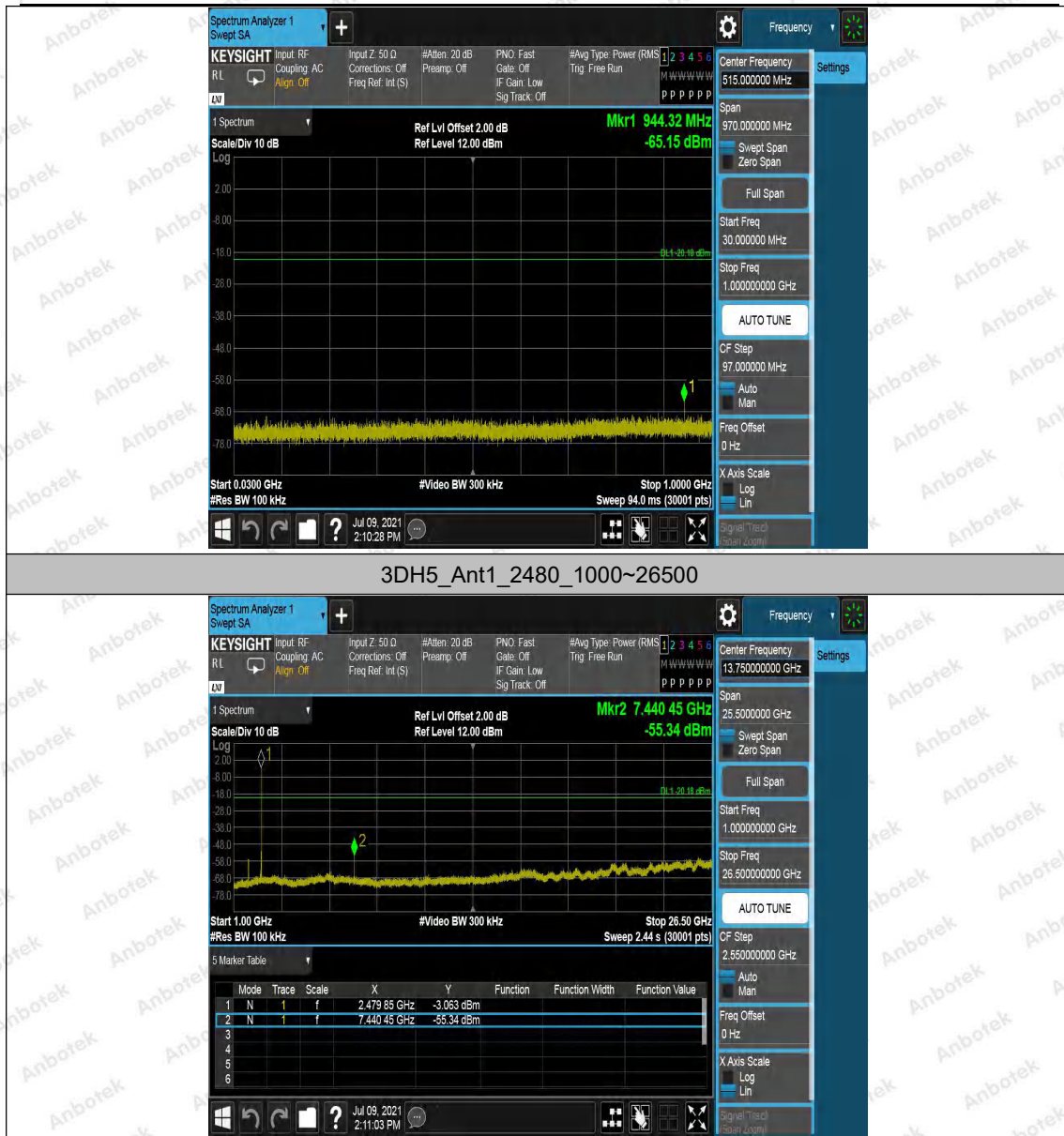


Hotline

400-003-0500

www.anbotek.com





Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

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

Shenzhen Anbotek Compliance Laboratory Limited

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

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



Hotline
400-003-0500
www.anbotek.com

Test Graphs

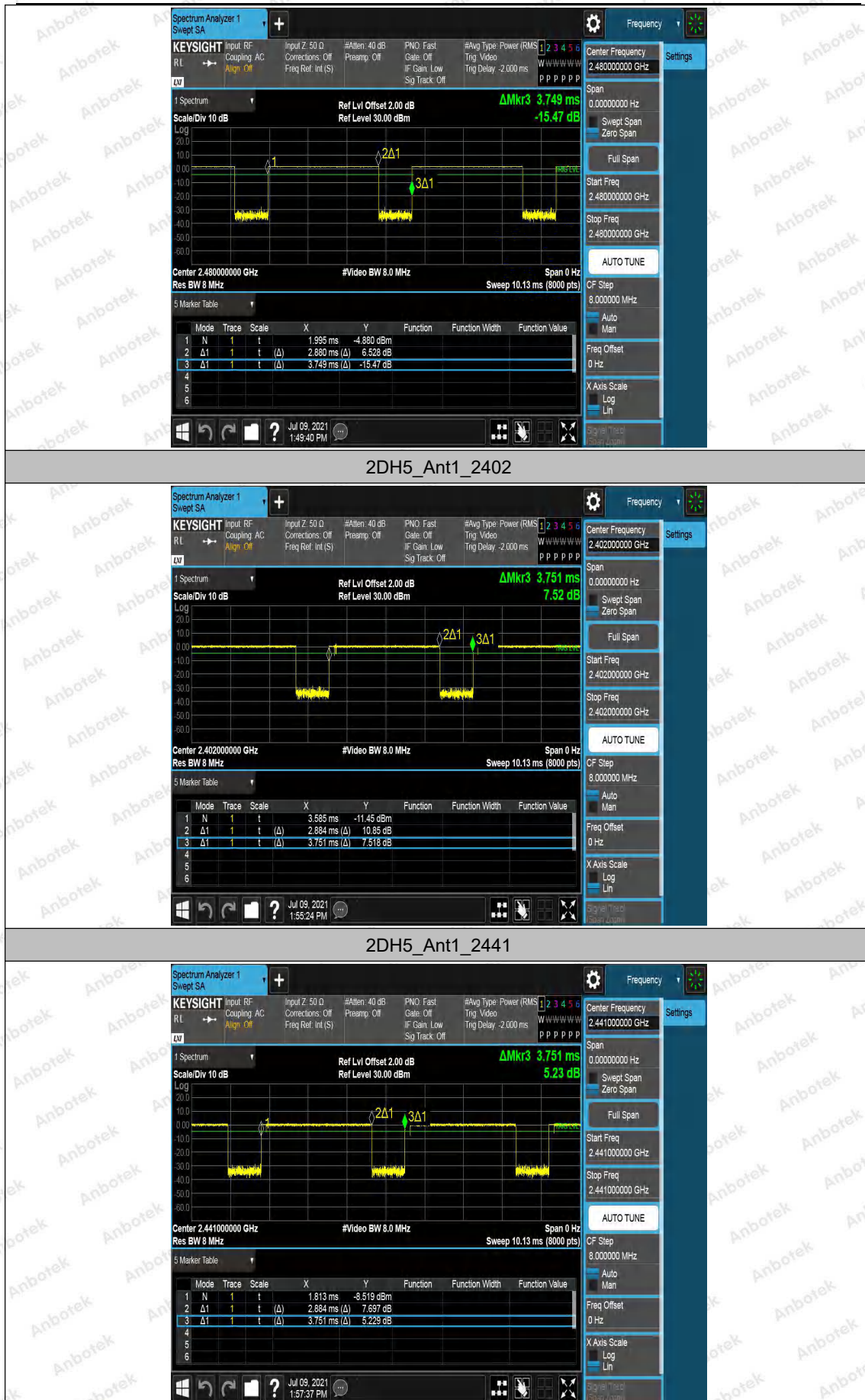


Shenzhen Anbotek Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotek.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



Shenzhen Anbotech Compliance Laboratory Limited

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

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

Hotline
400-003-0500
www.anbotech.com



---End---