Spectrum

Ref Level 25.00 dBm   Offset 6.00 dB ● RBW 10 MHz
● Att   30 dB ● SWT 100 ms ● VBW 10 MHz
SGL Count 1/1   TRG:VID

●1Pk Clrw

20 dBm

TRG 13.100 dBm
10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

CF 5.795 GHz   1001 pts   10.0 ms/

NTNV-11AC40MIMO-Ant1-5795

Spectrum

Ref Level 25.00 dBm   Offset 6.00 dB ● RBW 10 MHz
● Att   30 dB ● SWT 100 ms ● VBW 10 MHz
SGL Count 1/1   TRG:VID

●1Pk Clrw

20 dBm

TRG 13.300 dBm
10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

CF 5.795 GHz   1001 pts   10.0 ms/

NTNV-11AC40MIMO-Ant2-5795

NTNV-11AC80MIMO-Ant1-5210
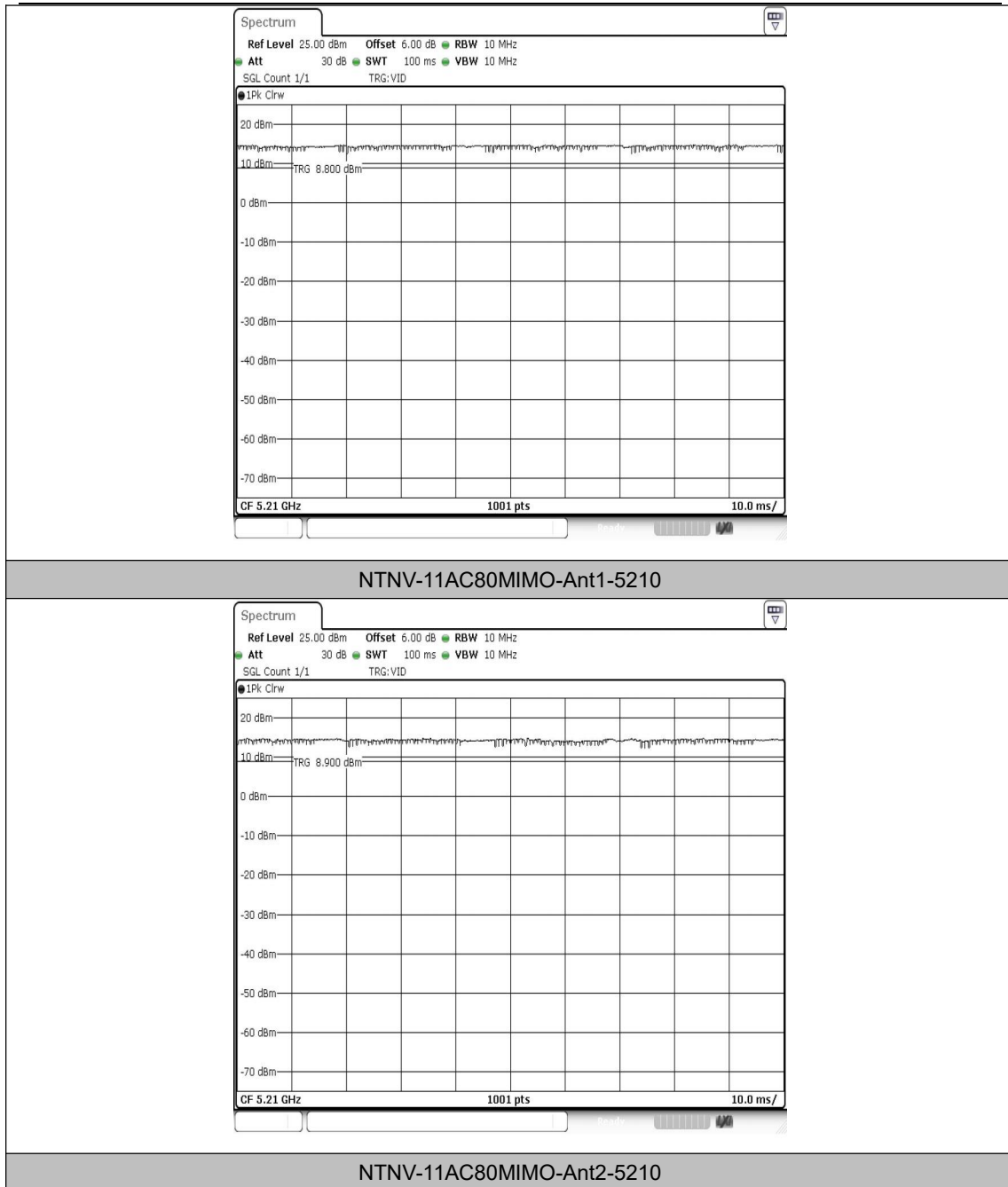

NTNV-11AC80MIMO-Ant2-5210

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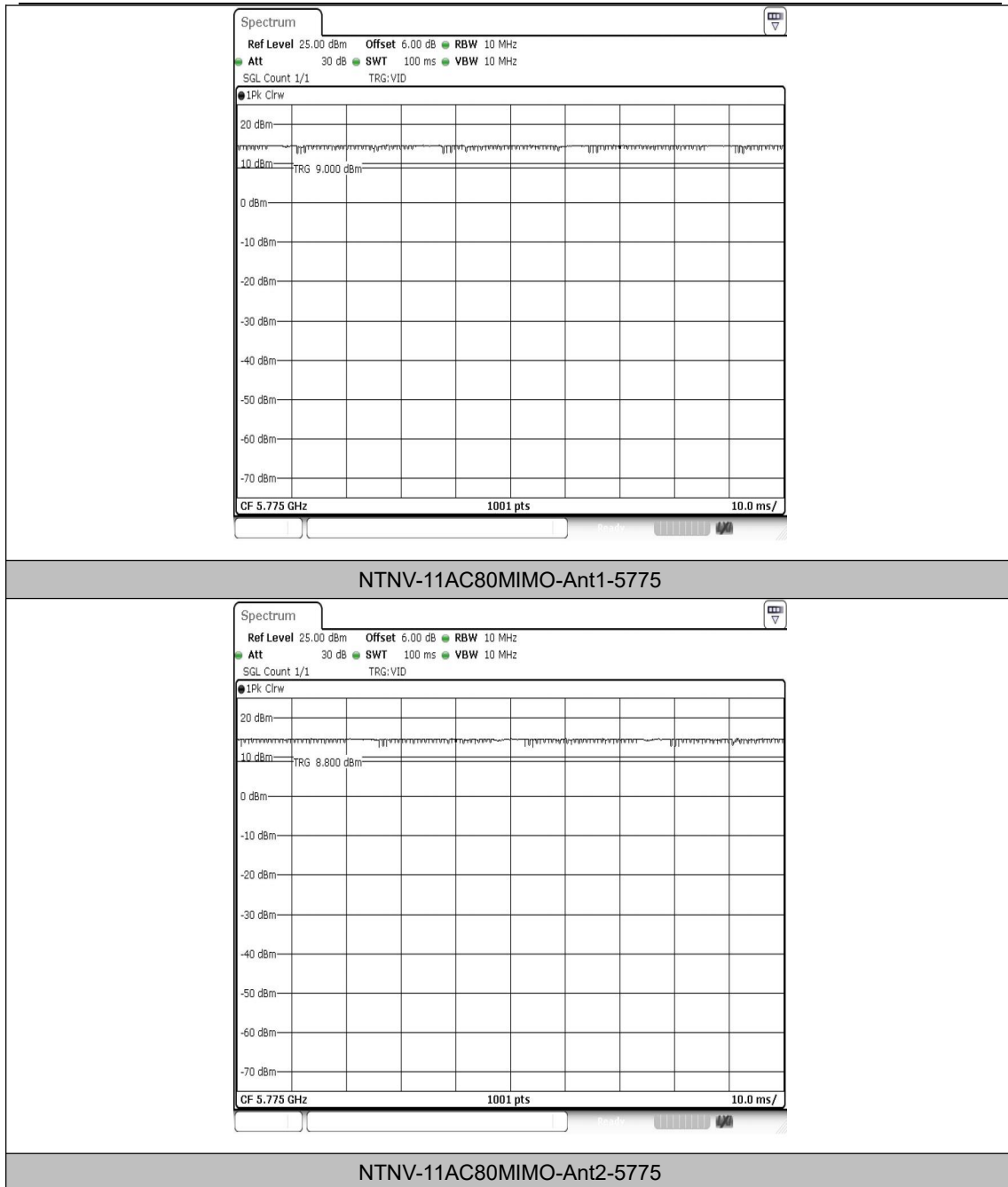Tel:(86)0755-26066440   Email: service@anbotek.com

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NTNV-11AC80MIMO-Ant1-5775

NTNV-11AC80MIMO-Ant2-5775

Appendix C: Maximum Conducted Output Power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Set Power	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	---	14.01	100.00	0.00	14.01	≤23.98	PASS
11A	Ant2	5180	---	13.97	100.00	0.00	13.97	≤23.98	PASS
11A	Ant1	5200	---	14.15	100.00	0.00	14.15	≤23.98	PASS
11A	Ant2	5200	---	14.20	100.00	0.00	14.20	≤23.98	PASS
11A	Ant1	5240	---	13.84	100.00	0.00	13.84	≤23.98	PASS
11A	Ant2	5240	---	13.89	100.00	0.00	13.89	≤23.98	PASS
11A	Ant1	5745	---	13.37	100.00	0.00	13.37	≤30.00	PASS
11A	Ant2	5745	---	13.37	100.00	0.00	13.37	≤30.00	PASS
11A	Ant1	5785	---	13.43	100.00	0.00	13.43	≤30.00	PASS
11A	Ant2	5785	---	13.42	100.00	0.00	13.42	≤30.00	PASS
11A	Ant1	5825	---	13.28	100.00	0.00	13.28	≤30.00	PASS
11A	Ant2	5825	---	13.26	100.00	0.00	13.26	≤30.00	PASS
11N20MIMO	Ant1	5180	---	13.83	100.00	0.00	13.83	≤23.98	PASS
11N20MIMO	Ant2	5180	---	13.84	100.00	0.00	13.84	≤23.98	PASS
11N20MIMO	total	5180	---	---	---	---	16.85	≤23.98	PASS
11N20MIMO	Ant1	5200	---	14.01	100.00	0.00	14.01	≤23.98	PASS
11N20MIMO	Ant2	5200	---	14.02	100.00	0.00	14.02	≤23.98	PASS
11N20MIMO	total	5200	---	---	---	---	17.03	≤23.98	PASS
11N20MIMO	Ant1	5240	---	13.71	100.00	0.00	13.71	≤23.98	PASS
11N20MIMO	Ant2	5240	---	13.71	100.00	0.00	13.71	≤23.98	PASS
11N20MIMO	total	5240	---	---	---	---	16.72	≤23.98	PASS
11N20MIMO	Ant1	5745	---	13.20	100.00	0.00	13.20	≤30.00	PASS
11N20MI	Ant2	5745	---	13.20	100.00	0.00	13.20	≤30.00	PASS

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MO									
11N20MIMO	total	5745	---	---	---	---	16.21	≤30.00	PASS
11N20MIMO	Ant1	5785	---	13.27	100.00	0.00	13.27	≤30.00	PASS
11N20MIMO	Ant2	5785	---	13.28	100.00	0.00	13.28	≤30.00	PASS
11N20MIMO	total	5785	---	---	---	---	16.29	≤30.00	PASS
11N20MIMO	Ant1	5825	---	13.11	100.00	0.00	13.11	≤30.00	PASS
11N20MIMO	Ant2	5825	---	13.12	100.00	0.00	13.12	≤30.00	PASS
11N20MIMO	total	5825	---	---	---	---	16.13	≤30.00	PASS
11N40MIMO	Ant1	5190	---	14.12	100.00	0.00	14.12	≤23.98	PASS
11N40MIMO	Ant2	5190	---	14.12	100.00	0.00	14.12	≤23.98	PASS
11N40MIMO	total	5190	---	---	---	---	17.13	≤23.98	PASS
11N40MIMO	Ant1	5230	---	13.99	100.00	0.00	13.99	≤23.98	PASS
11N40MIMO	Ant2	5230	---	13.98	100.00	0.00	13.98	≤23.98	PASS
11N40MIMO	total	5230	---	---	---	---	17.00	≤23.98	PASS
11N40MIMO	Ant1	5755	---	13.42	100.00	0.00	13.42	≤30.00	PASS
11N40MIMO	Ant2	5755	---	13.42	100.00	0.00	13.42	≤30.00	PASS
11N40MIMO	total	5755	---	---	---	---	16.43	≤30.00	PASS
11N40MIMO	Ant1	5795	---	13.47	100.00	0.00	13.47	≤30.00	PASS
11N40MIMO	Ant2	5795	---	13.45	100.00	0.00	13.45	≤30.00	PASS
11N40MIMO	total	5795	---	---	---	---	16.47	≤30.00	PASS
11AC20MIMO	Ant1	5180	---	13.84	100.00	0.00	13.84	≤23.98	PASS
11AC20MIMO	Ant2	5180	---	13.84	100.00	0.00	13.84	≤23.98	PASS

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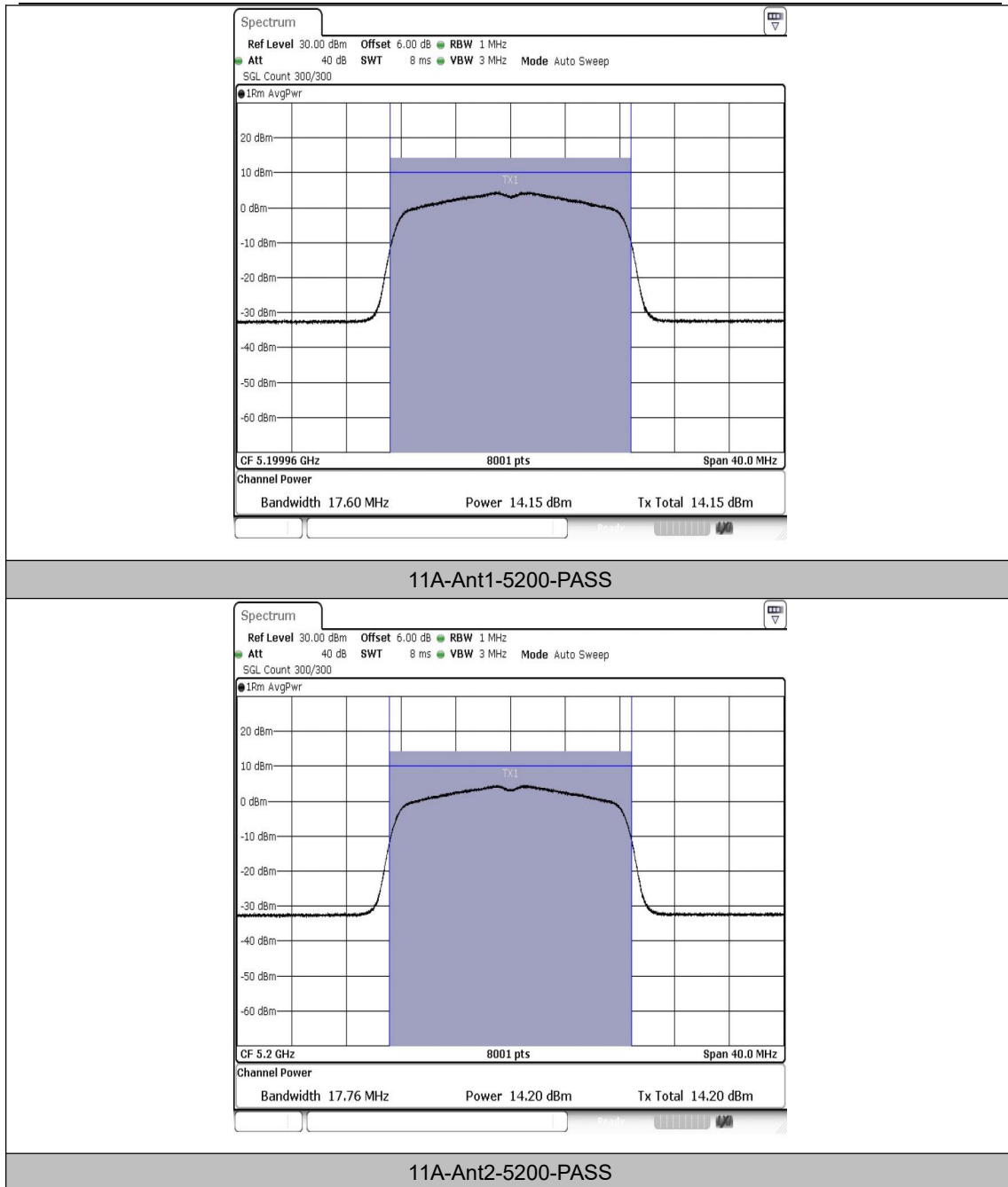| 11AC20M IMO	total	5180	---	---	---	---	16.85	≤23.98	PASS
11AC20M IMO	Ant1	5200	---	14.04	100.00	0.00	14.04	≤23.98	PASS
11AC20M IMO	Ant2	5200	---	14.03	100.00	0.00	14.03	≤23.98	PASS
11AC20M IMO	total	5200	---	---	---	---	17.05	≤23.98	PASS
11AC20M IMO	Ant1	5240	---	13.73	100.00	0.00	13.73	≤23.98	PASS
11AC20M IMO	Ant2	5240	---	13.74	100.00	0.00	13.74	≤23.98	PASS
11AC20M IMO	total	5240	---	---	---	---	16.75	≤23.98	PASS
11AC20M IMO	Ant1	5745	---	13.22	100.00	0.00	13.22	≤30.00	PASS
11AC20M IMO	Ant2	5745	---	13.22	100.00	0.00	13.22	≤30.00	PASS
11AC20M IMO	total	5745	---	---	---	---	16.23	≤30.00	PASS
11AC20M IMO	Ant1	5785	---	13.29	100.00	0.00	13.29	≤30.00	PASS
11AC20M IMO	Ant2	5785	---	13.29	100.00	0.00	13.29	≤30.00	PASS
11AC20M IMO	total	5785	---	---	---	---	16.30	≤30.00	PASS
11AC20M IMO	Ant1	5825	---	13.11	100.00	0.00	13.11	≤30.00	PASS
11AC20M IMO	Ant2	5825	---	13.10	100.00	0.00	13.10	≤30.00	PASS
11AC20M IMO	total	5825	---	---	---	---	16.12	≤30.00	PASS
11AC40M IMO	Ant1	5190	---	14.13	100.00	0.00	14.13	≤23.98	PASS
11AC40M IMO	Ant2	5190	---	14.13	100.00	0.00	14.13	≤23.98	PASS
11AC40M IMO	total	5190	---	---	---	---	**17.14**	≤23.98	PASS
11AC40M IMO	Ant1	5230	---	14.03	100.00	0.00	14.03	≤23.98	PASS
11AC40M IMO	Ant2	5230	---	14.03	100.00	0.00	14.03	≤23.98	PASS
11AC40M	total	5230	---	---	---	---	17.04	≤23.98	PASS

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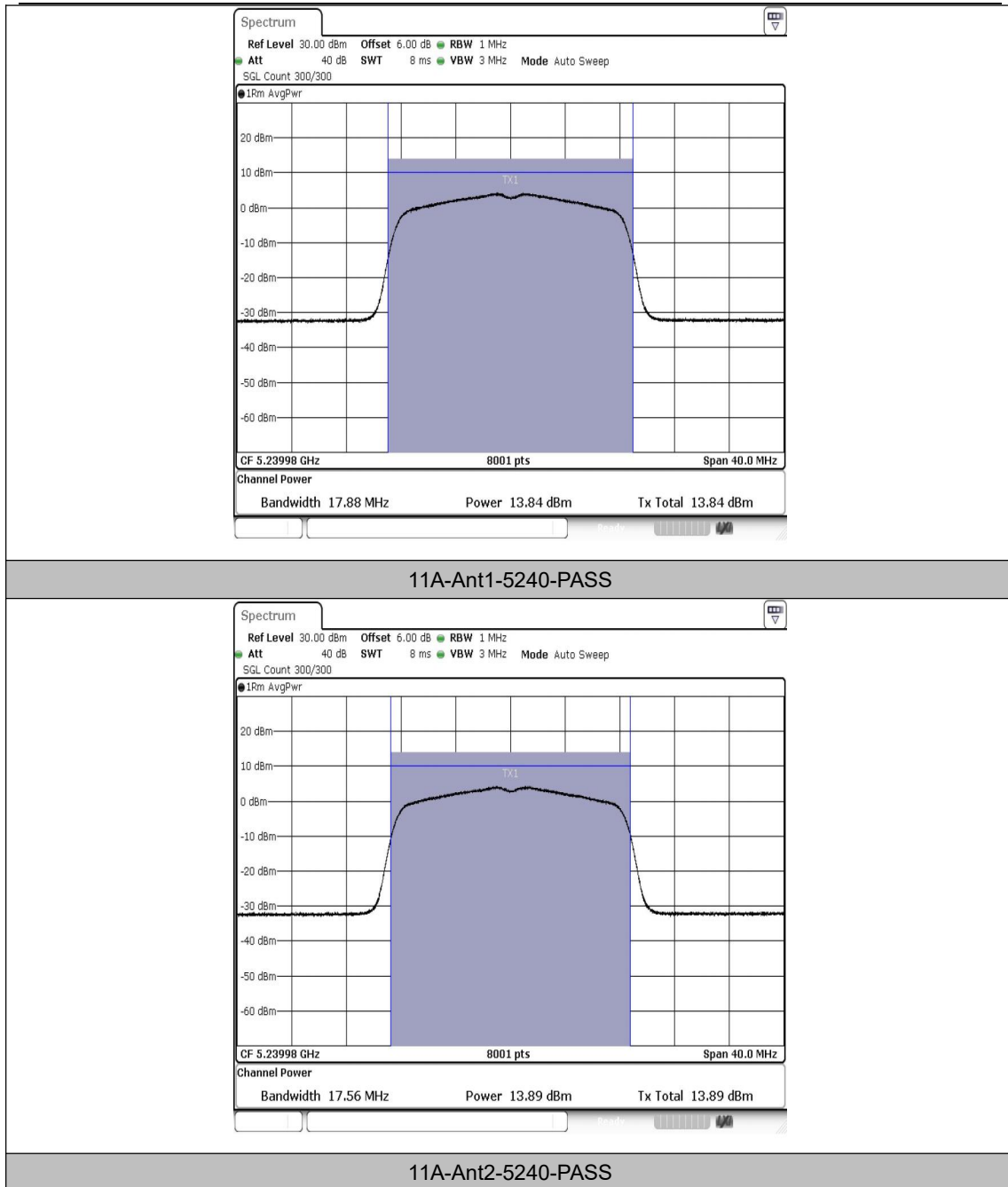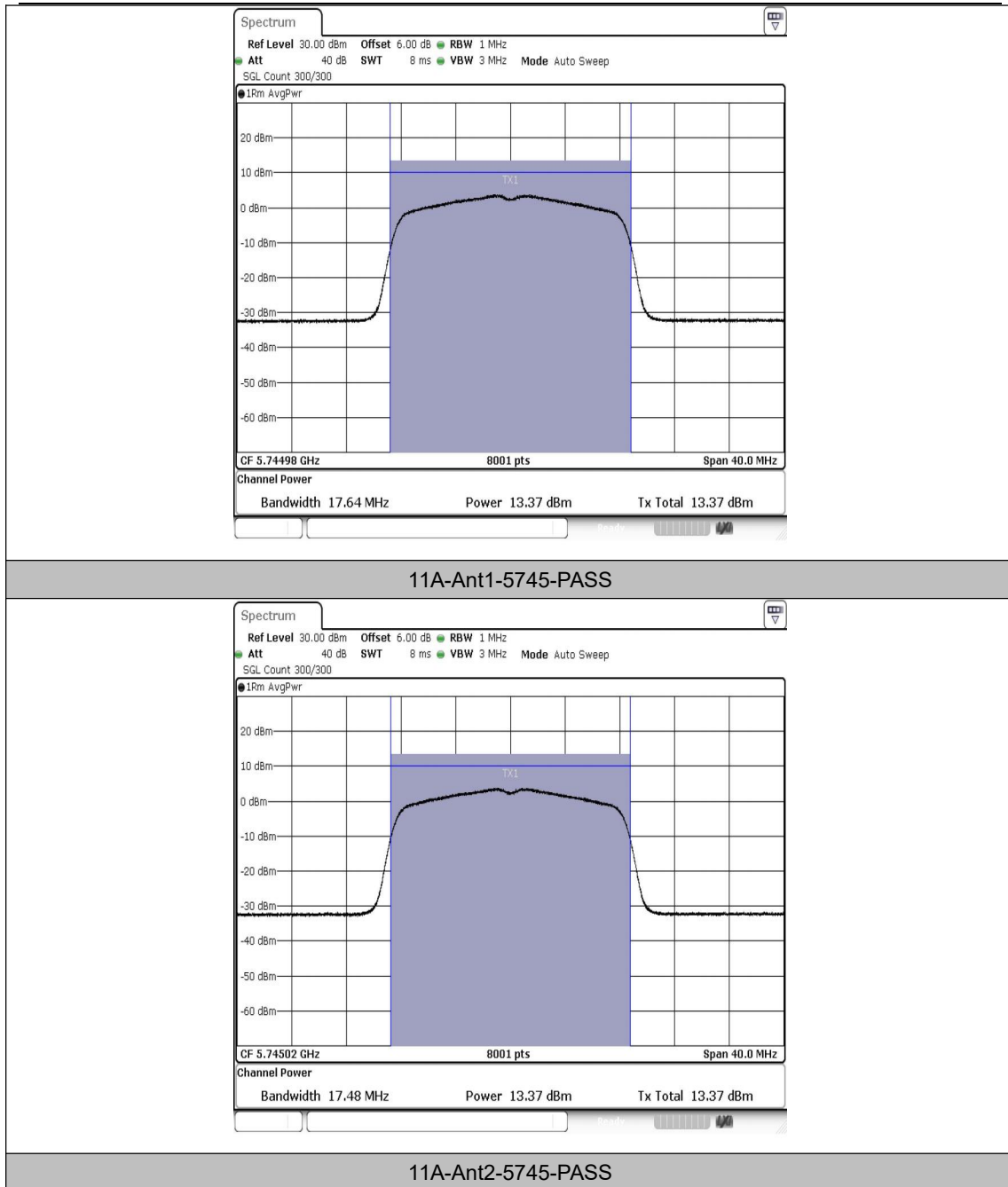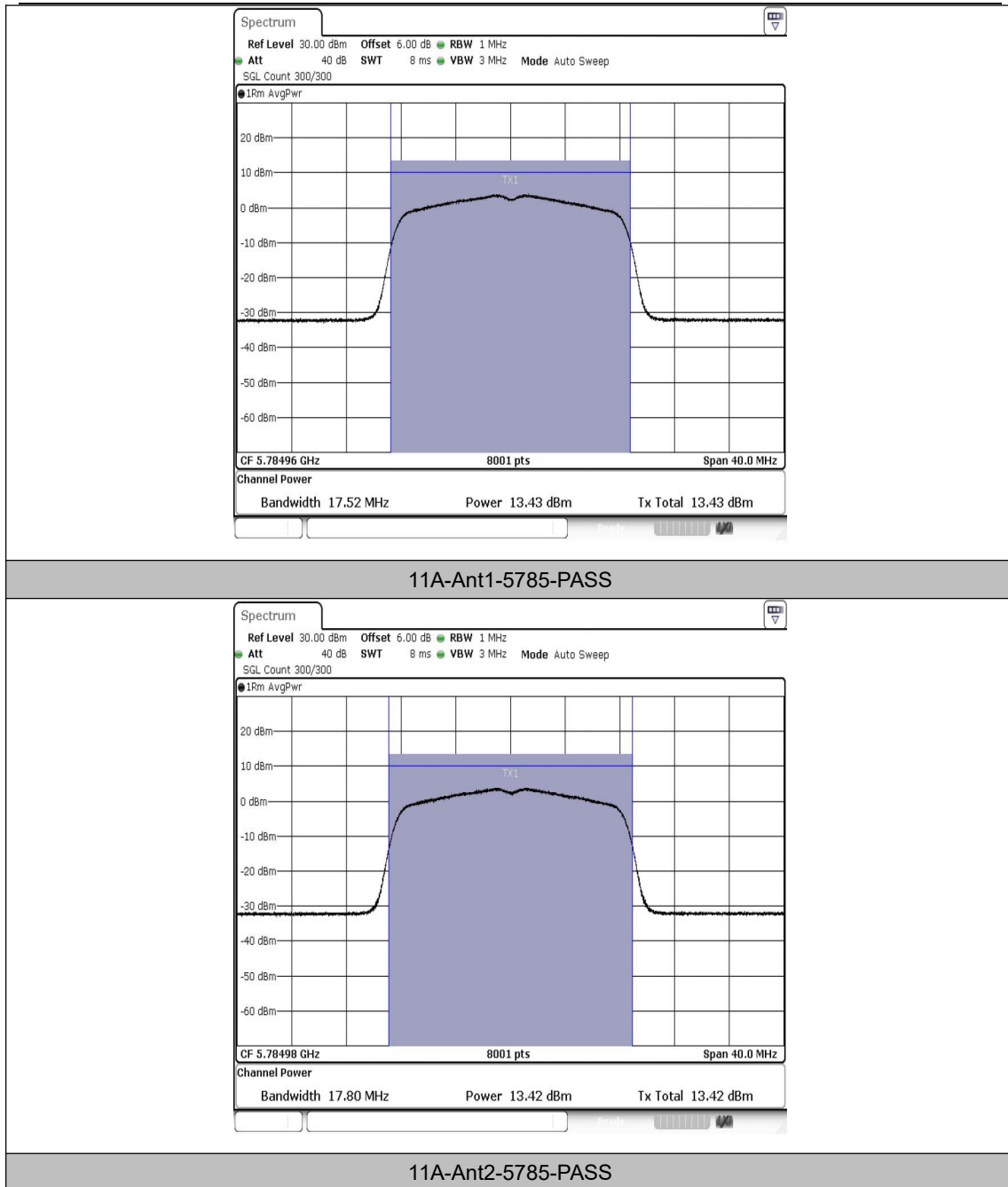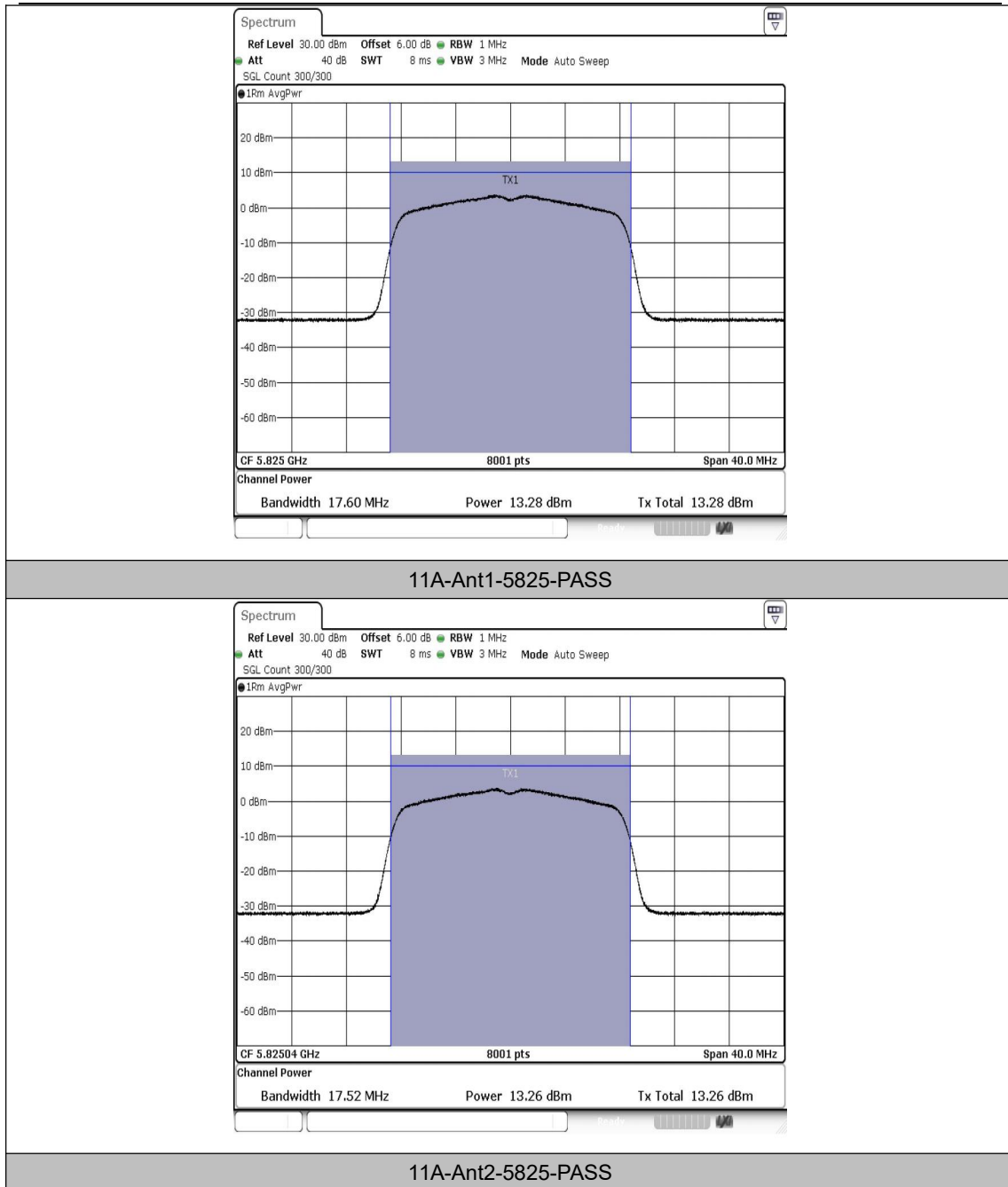
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IMO									
11AC40M IMO	Ant1	5755	---	13.86	100.00	0.00	13.86	≤30.00	PASS
11AC40M IMO	Ant2	5755	---	13.90	100.00	0.00	13.90	≤30.00	PASS
11AC40M IMO	total	5755	---	---	---	---	16.89	≤30.00	PASS
11AC40M IMO	Ant1	5795	---	13.98	100.00	0.00	13.98	≤30.00	PASS
11AC40M IMO	Ant2	5795	---	14.05	100.00	0.00	14.05	≤30.00	PASS
11AC40M IMO	total	5795	---	---	---	---	17.03	≤30.00	PASS
11AC80M IMO	Ant1	5210	---	13.69	100.00	0.00	13.69	≤23.98	PASS
11AC80M IMO	Ant2	5210	---	13.56	100.00	0.00	13.56	≤23.98	PASS
11AC80M IMO	total	5210	---	---	---	---	16.64	≤23.98	PASS
11AC80M IMO	Ant1	5775	---	13.61	100.00	0.00	13.61	≤30.00	PASS
11AC80M IMO	Ant2	5775	---	13.62	100.00	0.00	13.62	≤30.00	PASS
11AC80M IMO	total	5775	---	---	---	---	16.63	≤30.00	PASS

Note：1.The cable loss are compensated in the graph.

2. For 5.2G: As Directional gain = 10 log[(10G1/20 + 10G2/20) 2 /NANT] dBi=5.18＜6dBi,

so limit=23.98dBm.

For 5.8G: As Directional gain = 10 log[(10G1/20 + 10G2/20) 2 /NANT] dBi=5.63＜6dBi,

so limit=30dBm.

3.MIMO= 10*LOG((10^ANT1/10)+10^(ANT2/10))

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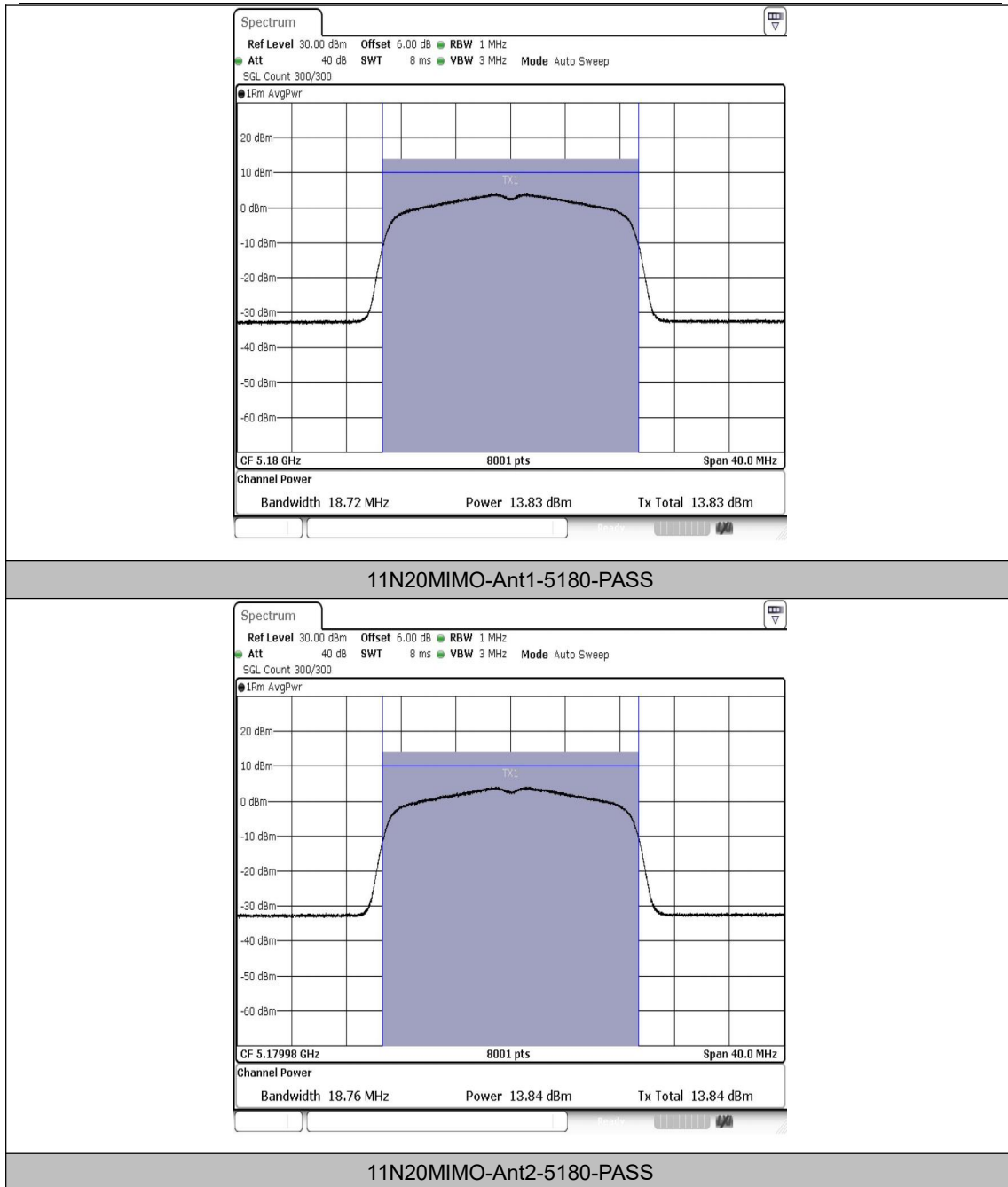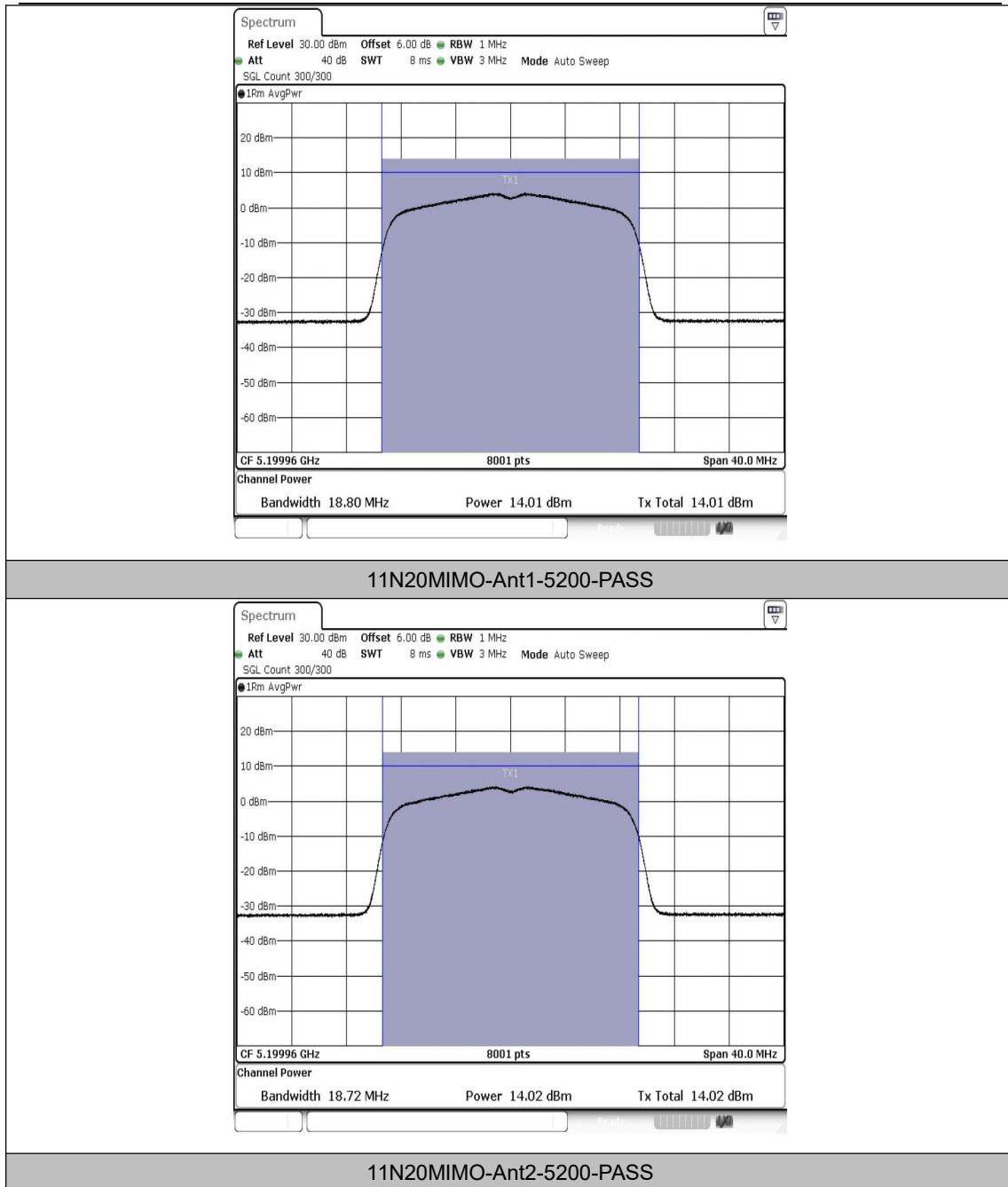Tel:(86)0755-26066440   Email: service@anbotek.com

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Test Graphs Channel Power

11A-Ant1-5180-PASS

11A-Ant2-5180-PASS

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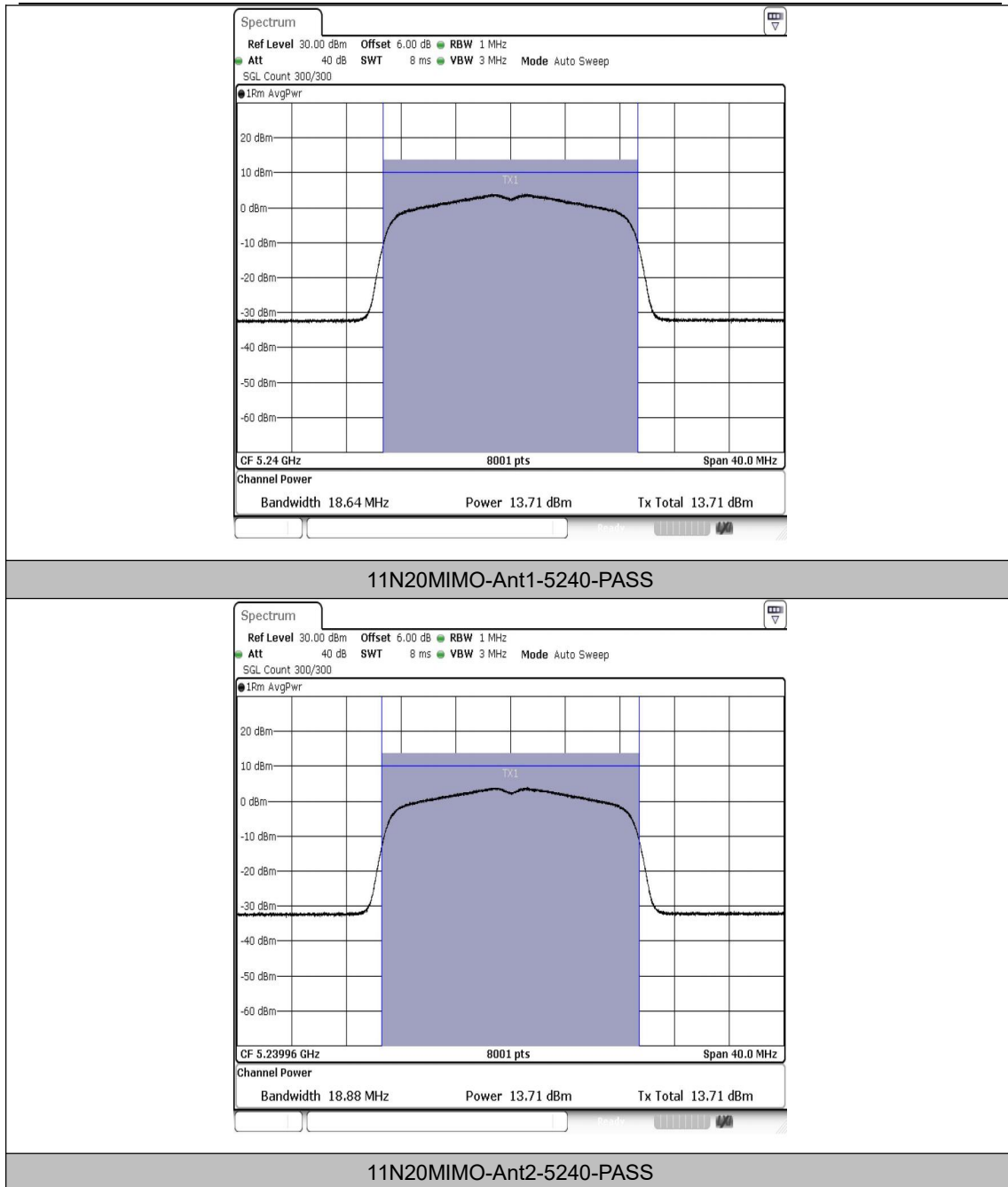Tel:(86)0755-26066440   Email: service@anbotek.com

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11A-Ant1-5200-PASS

11A-Ant2-5200-PASS

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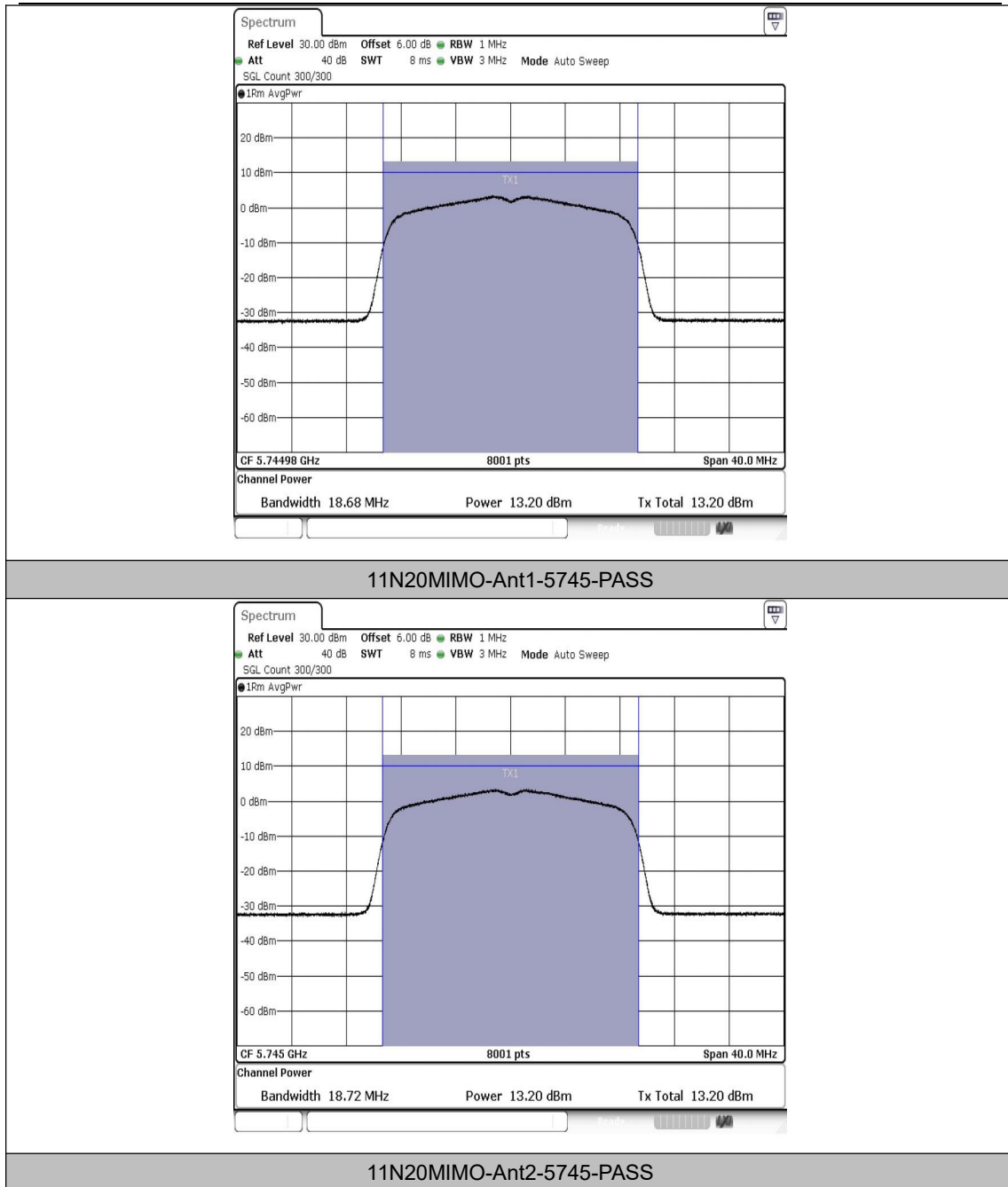
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11A-Ant2-5240-PASS

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11A-Ant1-5745-PASS

11A-Ant2-5745-PASS

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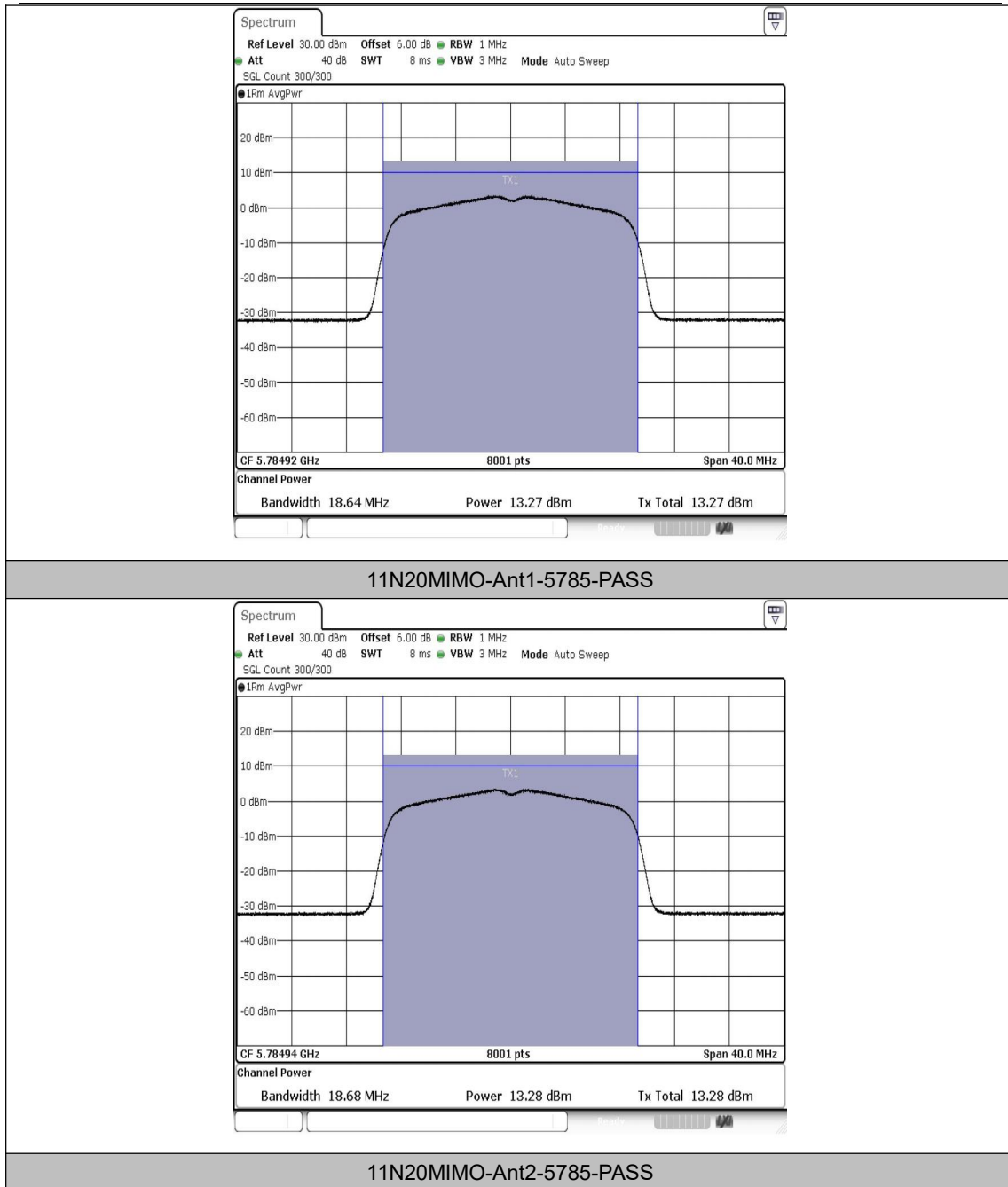
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11A-Ant1-5785-PASS

11A-Ant2-5785-PASS

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11A-Ant1-5825-PASS

11A-Ant2-5825-PASS

11N20MIMO-Ant1-5180-PASS

11N20MIMO-Ant2-5180-PASS

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11N20MIMO-Ant1-5200-PASS

11N20MIMO-Ant2-5200-PASS

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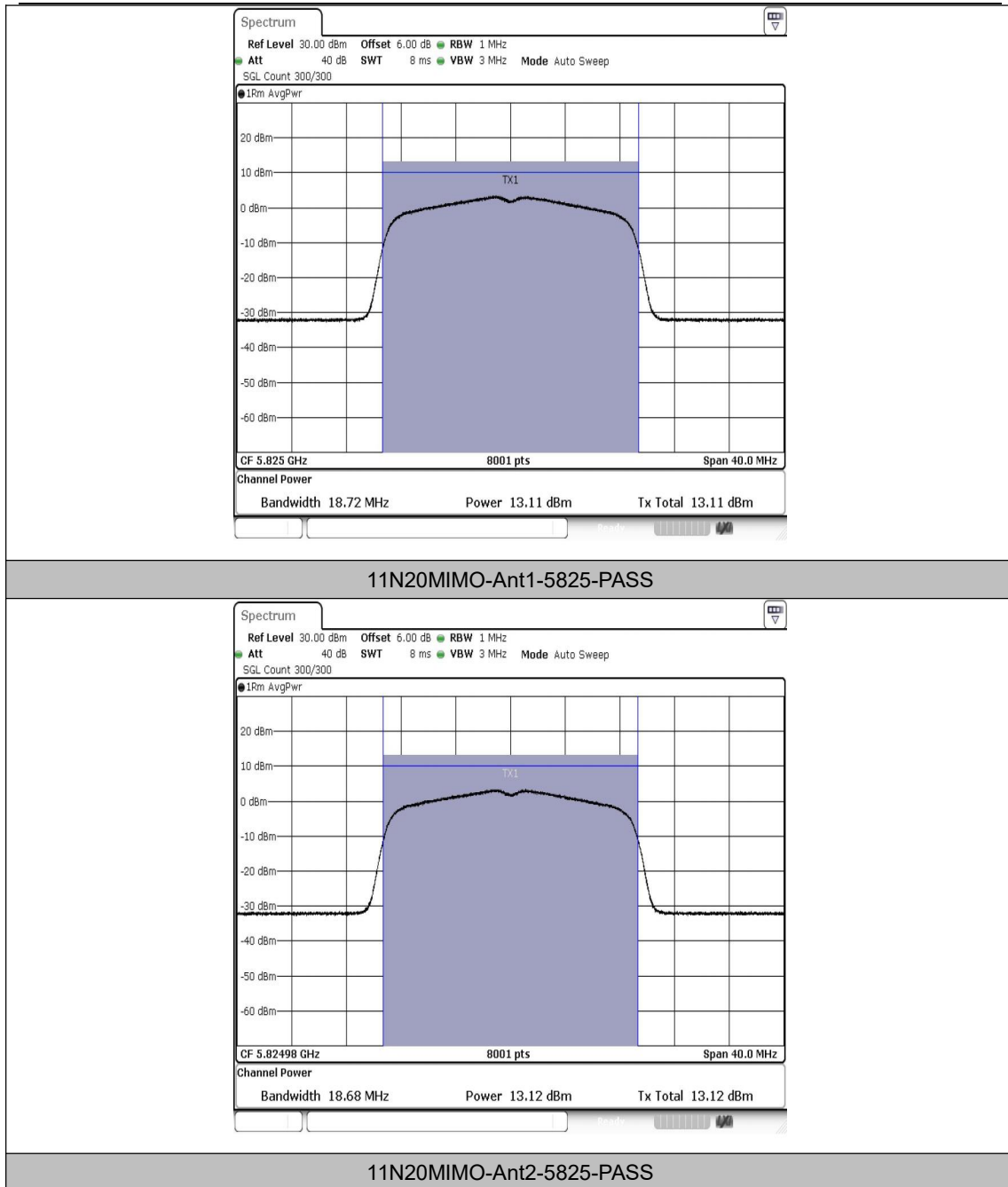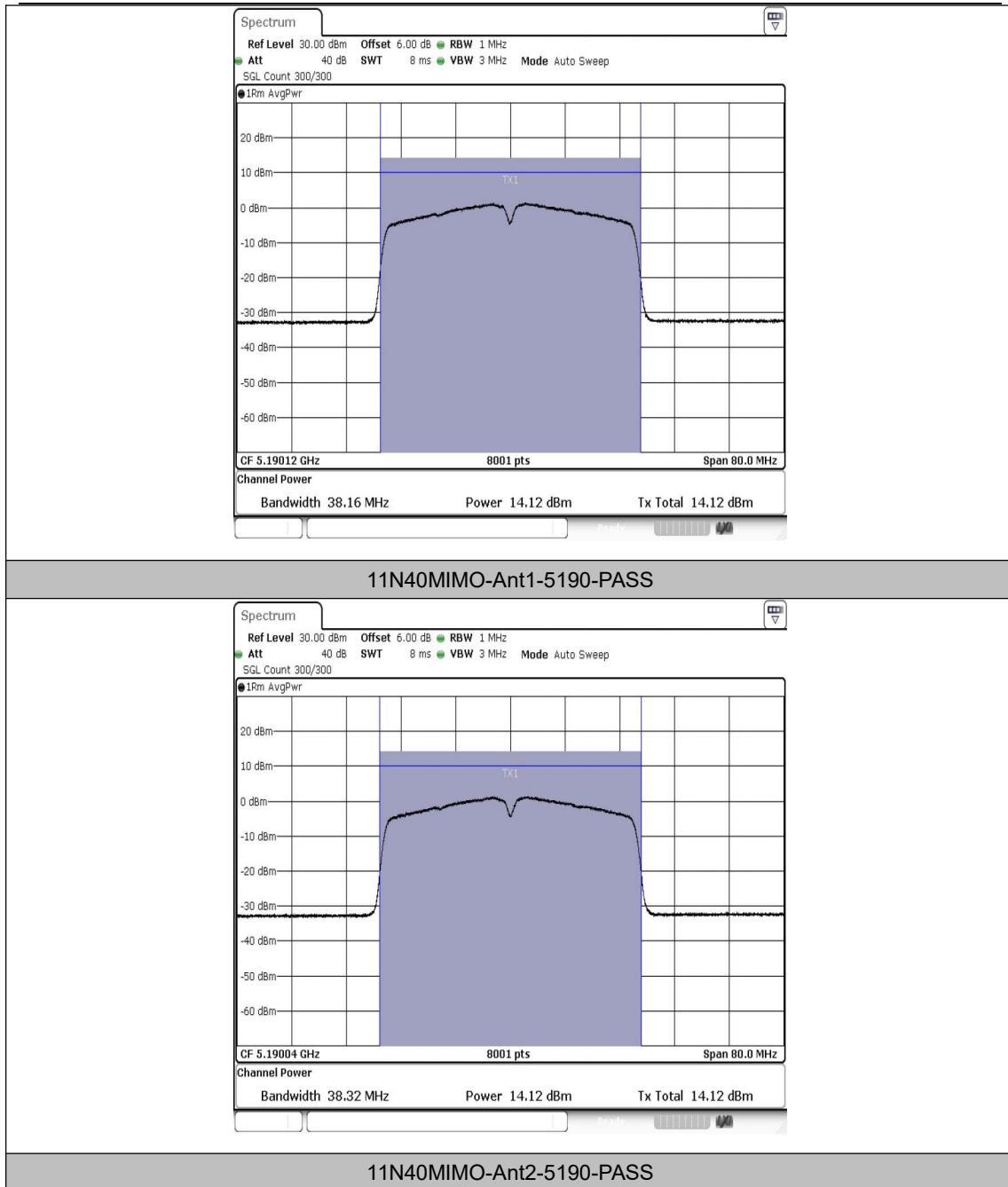Tel:(86)0755-26066440   Email: service@anbotek.com

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Spectrum

| Ref Level | 30.00 dBm | Offset | 6.00 dB | ● RBW | 1 MHz |
| Att | 40 dB | SWT | 8 ms | ● VBW | 3 MHz | Mode Auto Sweep |

SGL Count 300/300

● 1Rm AvgPwr

CF 5.24 GHz   8001 pts   Span 40.0 MHz

Channel Power

| Bandwidth 18.64 MHz | Power 13.71 dBm | Tx Total 13.71 dBm |

11N20MIMO-Ant1-5240-PASS

Spectrum

| Ref Level | 30.00 dBm | Offset | 6.00 dB | ● RBW | 1 MHz |
| Att | 40 dB | SWT | 8 ms | ● VBW | 3 MHz | Mode Auto Sweep |

SGL Count 300/300

● 1Rm AvgPwr

CF 5.23996 GHz   8001 pts   Span 40.0 MHz

Channel Power

| Bandwidth 18.88 MHz | Power 13.71 dBm | Tx Total 13.71 dBm |

11N20MIMO-Ant2-5240-PASS

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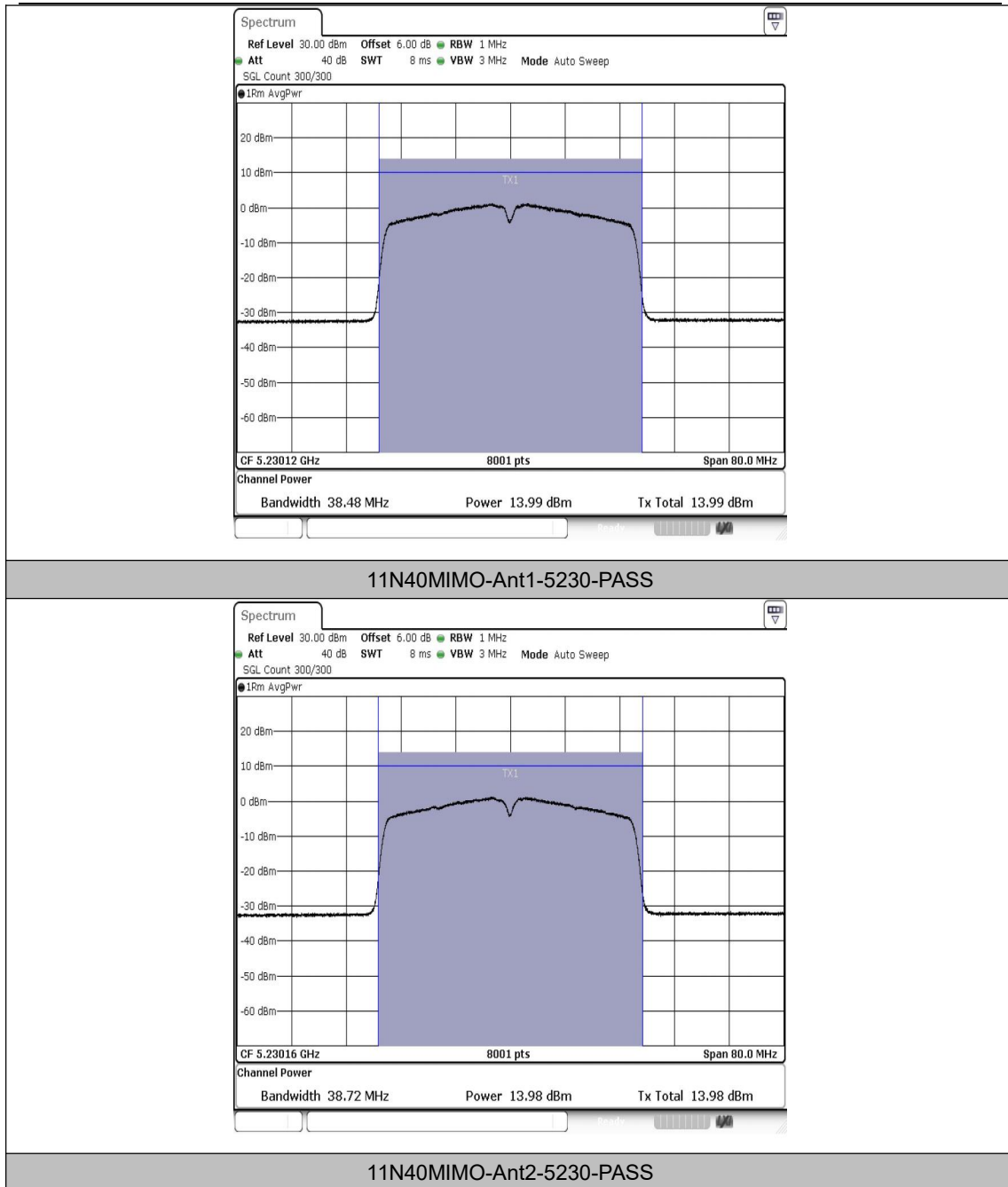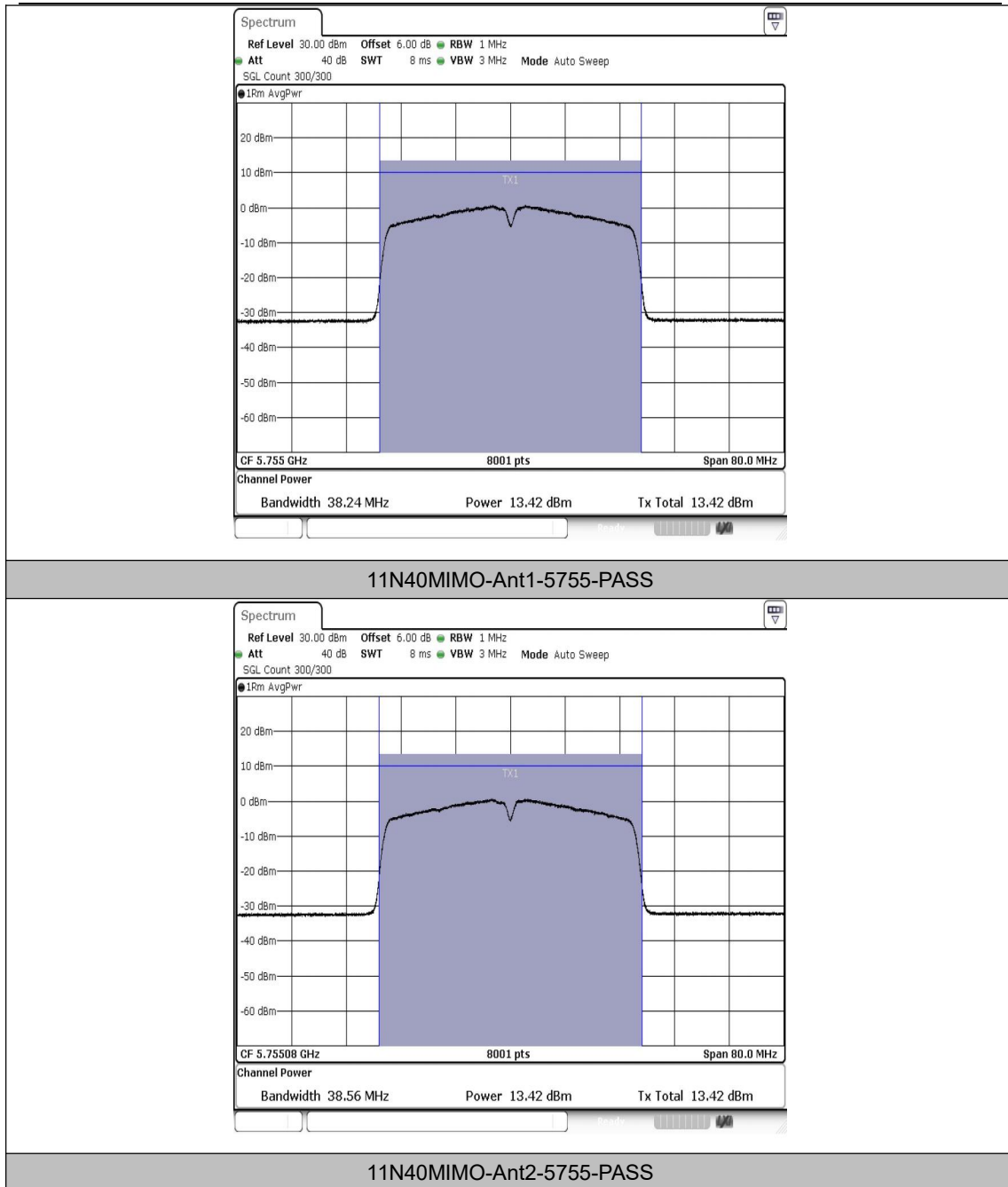Tel:(86)0755-26066440   Email: service@anbotek.com

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11N20MIMO-Ant1-5745-PASS

11N20MIMO-Ant2-5745-PASS

11N20MIMO-Ant1-5785-PASS

11N20MIMO-Ant2-5785-PASS

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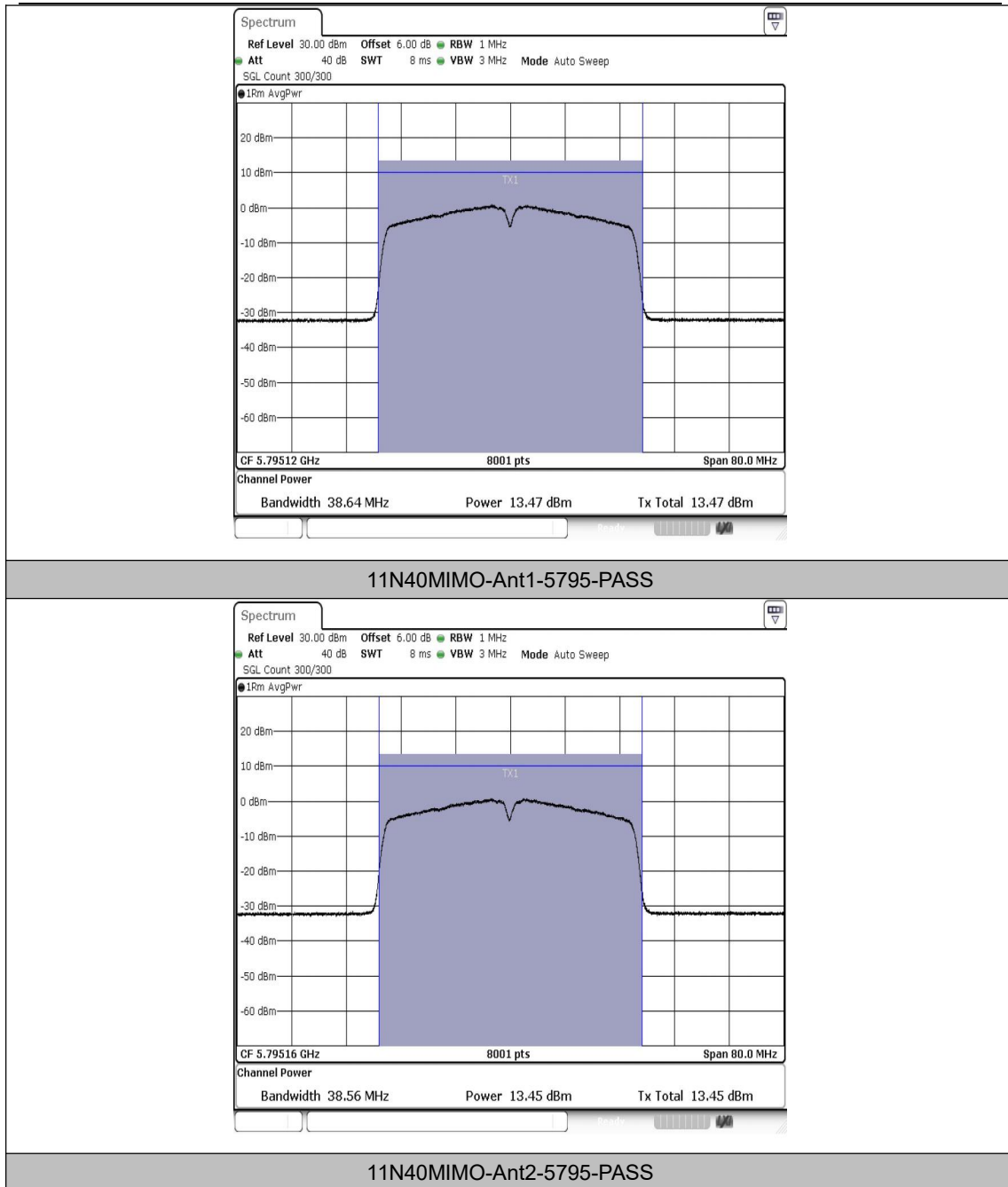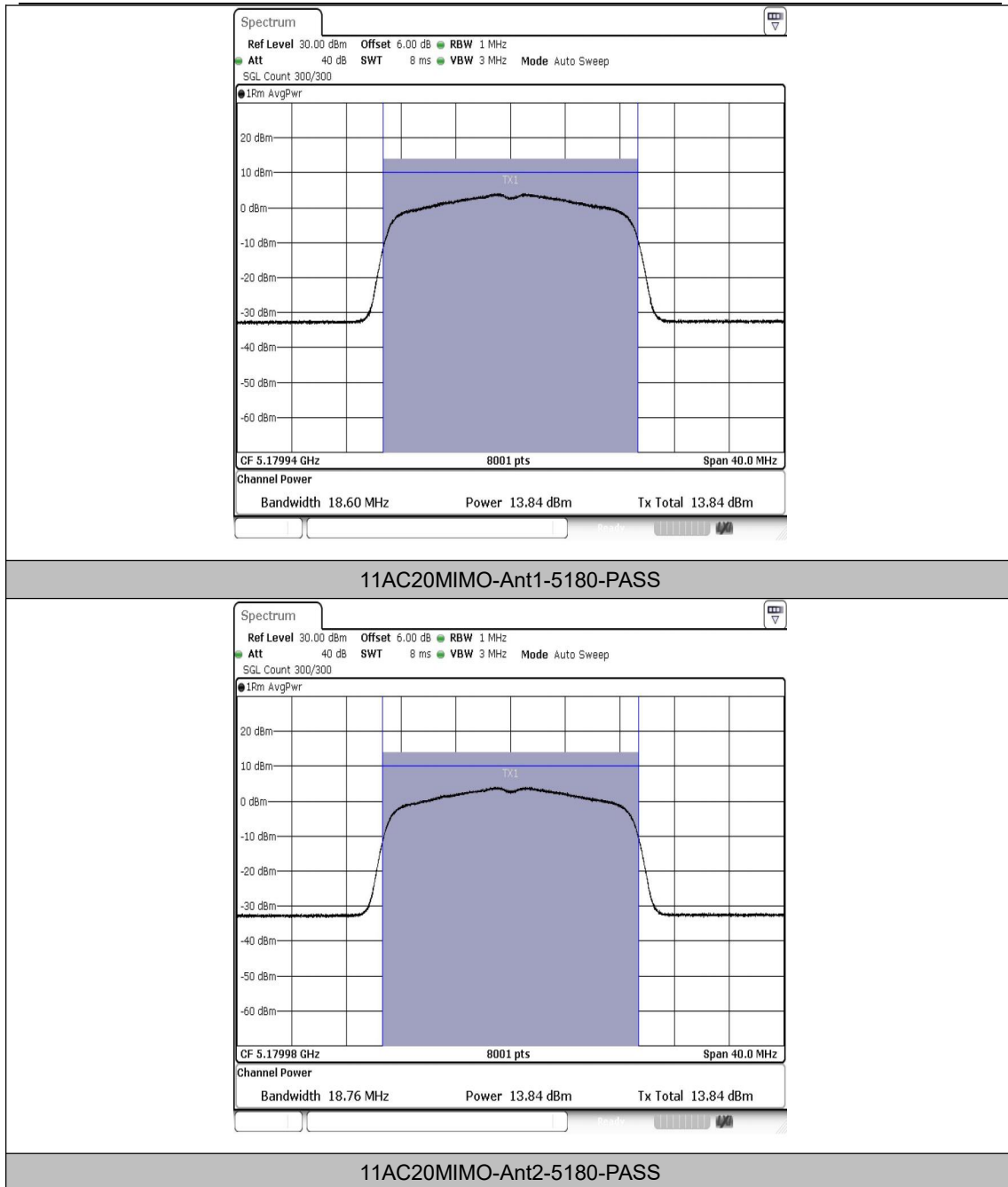Tel:(86)0755-26066440   Email: service@anbotek.com

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Spectrum

Ref Level 30.00 dBm   Offset 6.00 dB ● RBW 1 MHz
● Att   40 dB   SWT   8 ms ● VBW 3 MHz   Mode Auto Sweep
SGL Count 300/300
●1Rm AvgPwr

20 dBm
10 dBm   TX1
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

CF 5.825 GHz   8001 pts   Span 40.0 MHz
Channel Power
    Bandwidth 18.72 MHz   Power 13.11 dBm   Tx Total 13.11 dBm

11N20MIMO-Ant1-5825-PASS

Spectrum

Ref Level 30.00 dBm   Offset 6.00 dB ● RBW 1 MHz
● Att   40 dB   SWT   8 ms ● VBW 3 MHz   Mode Auto Sweep
SGL Count 300/300
●1Rm AvgPwr

20 dBm
10 dBm   TX1
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

CF 5.82498 GHz   8001 pts   Span 40.0 MHz
Channel Power
    Bandwidth 18.68 MHz   Power 13.12 dBm   Tx Total 13.12 dBm

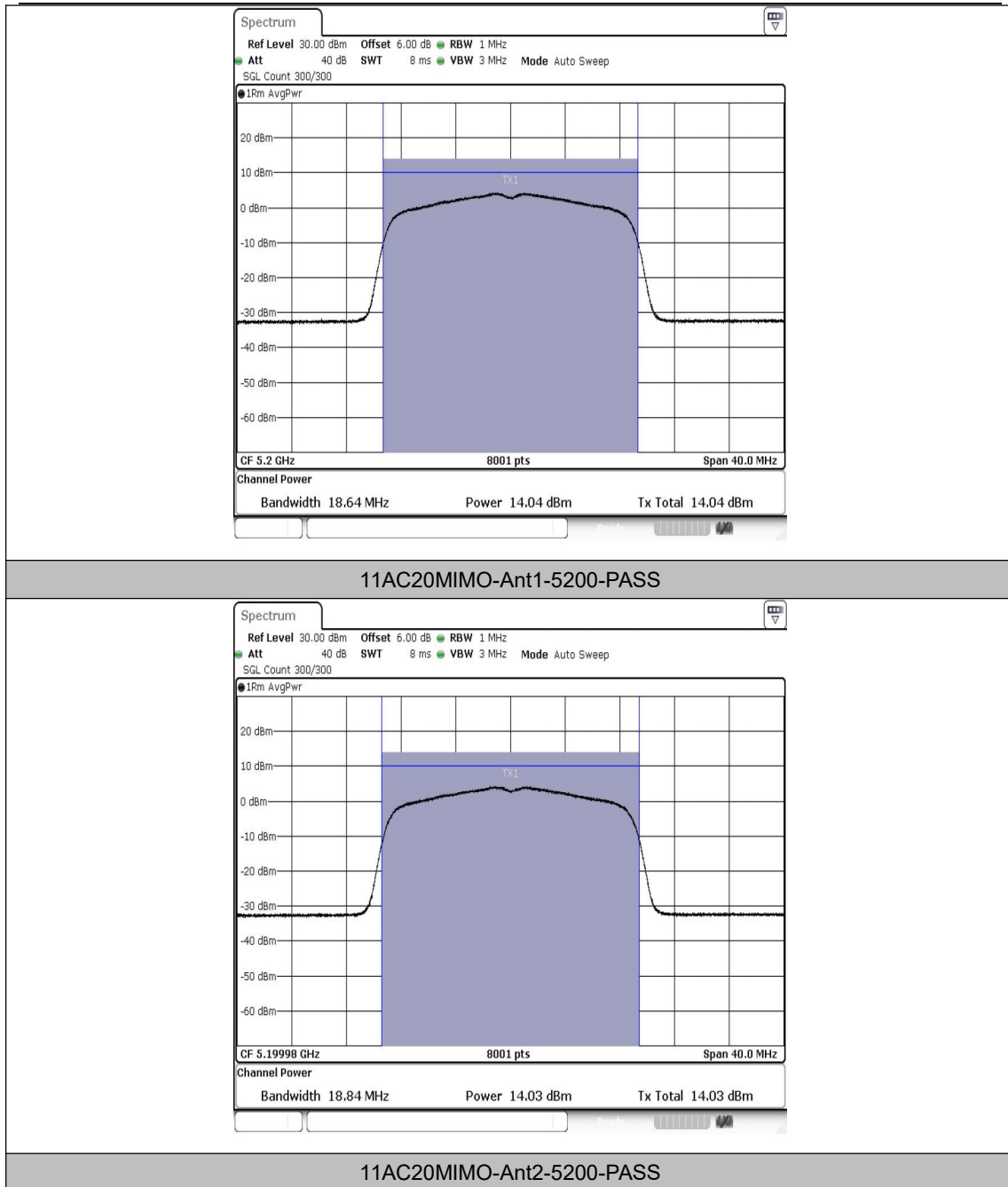**11N20MIMO-Ant2-5825-PASS**

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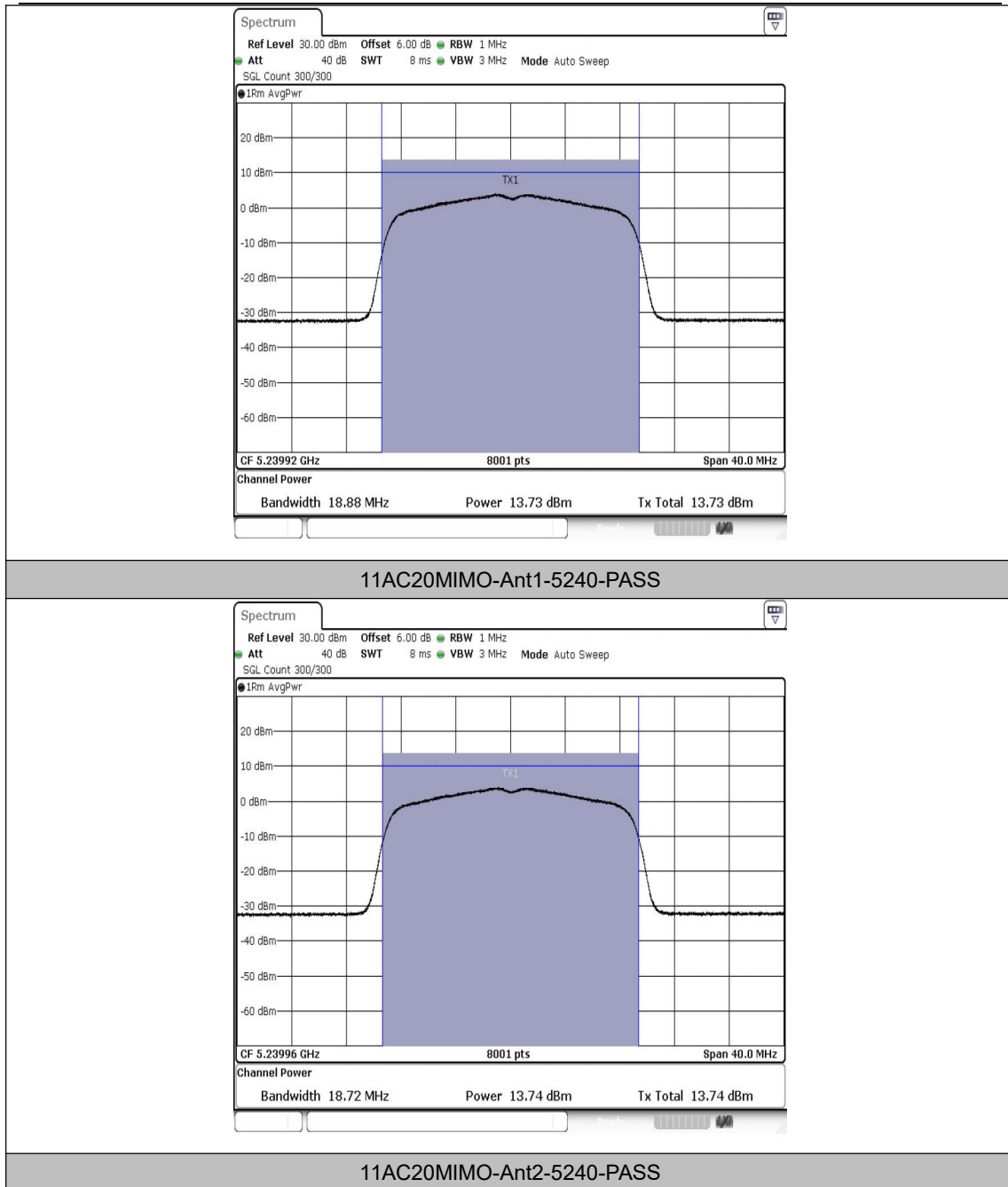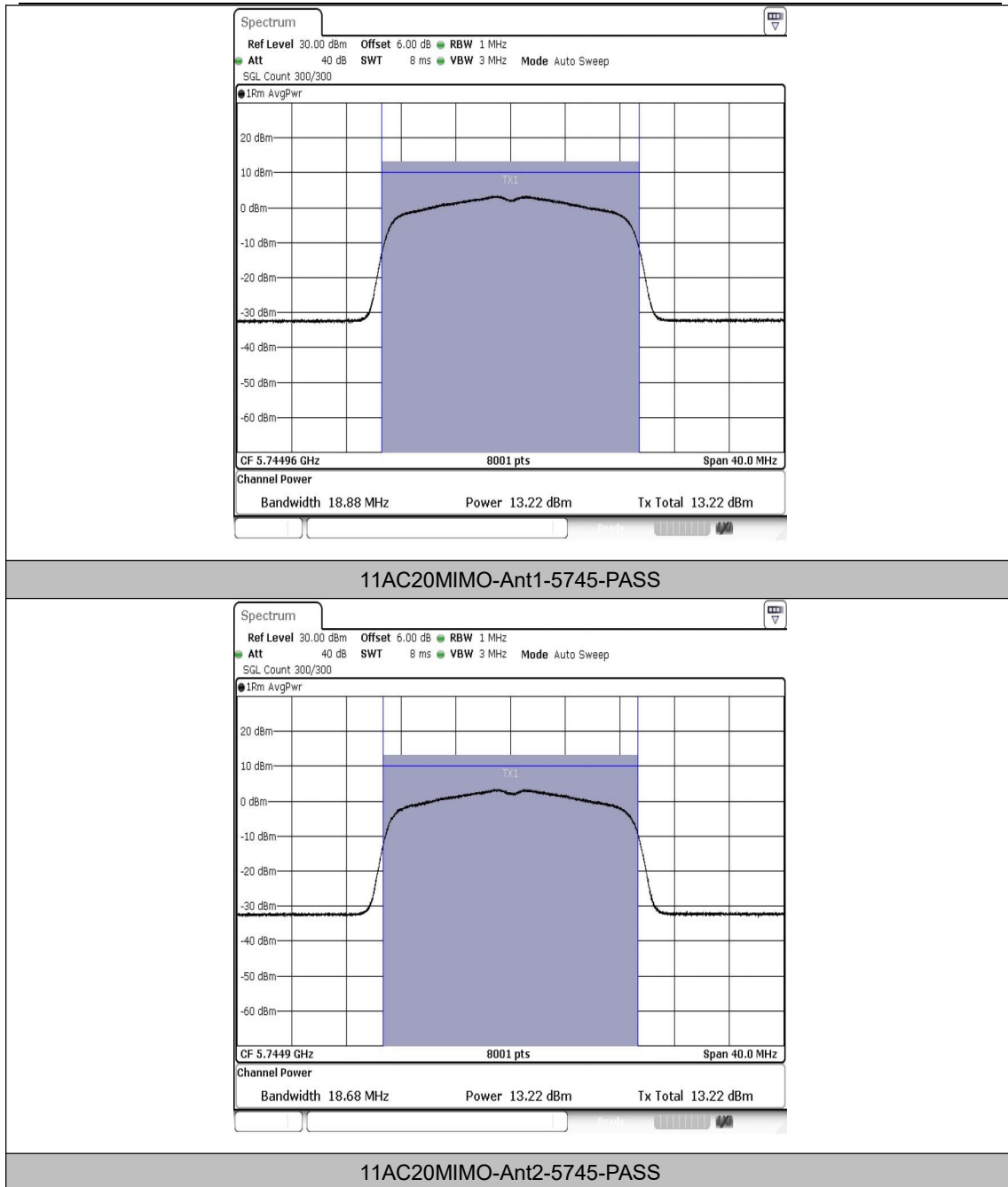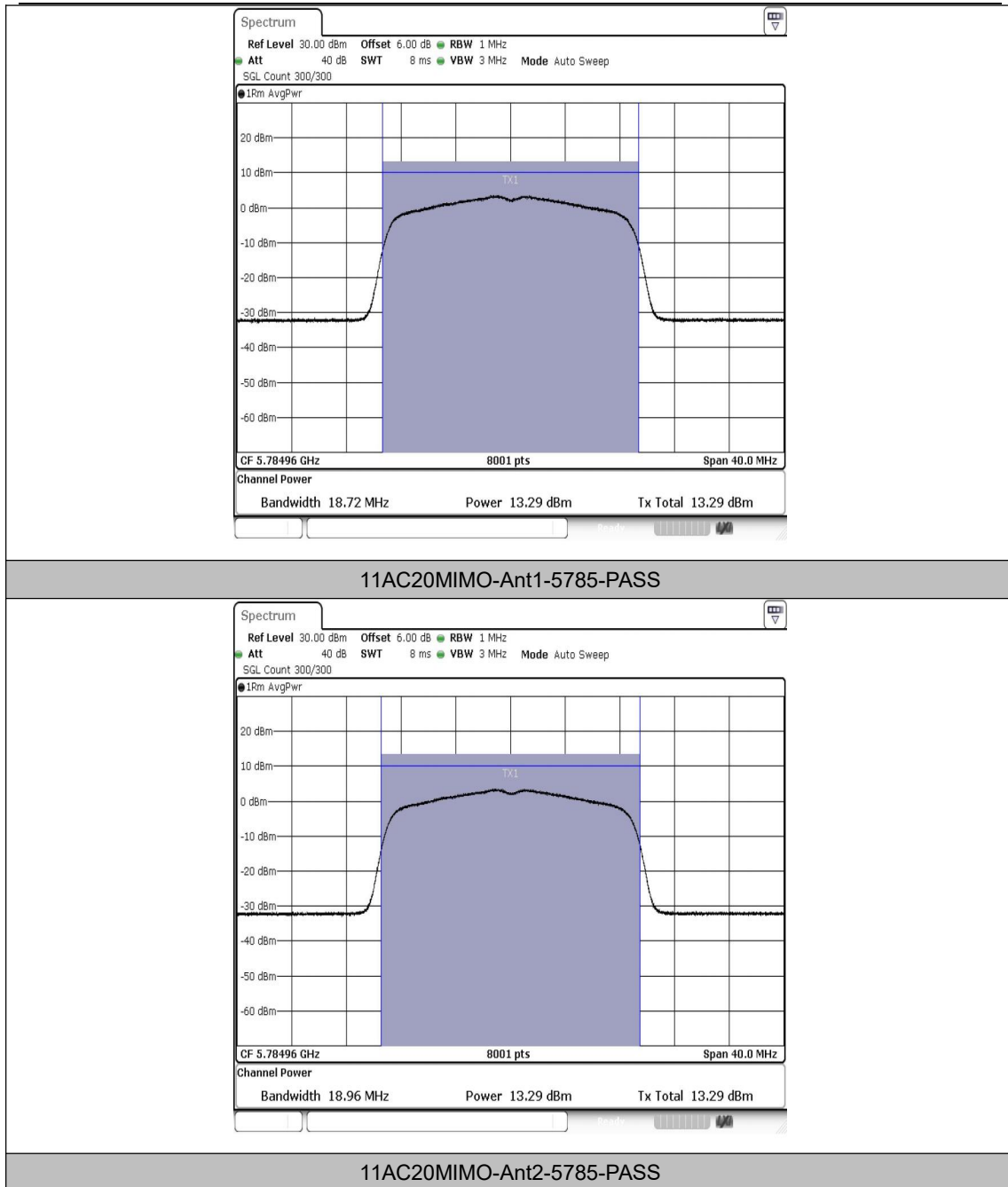
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11N40MIMO-Ant1-5190-PASS

11N40MIMO-Ant2-5190-PASS

Anbotek
Product Safety

Spectrum			
Ref Level 30.00 dBm	**Offset** 6.00 dB ● **RBW** 1 MHz		
● **Att** 40 dB	**SWT** 8 ms ● **VBW** 3 MHz	**Mode** Auto Sweep	
SGL Count 300/300			

● 1Rm AvgPwr

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

TX1

CF 5.23012 GHz   8001 pts   Span 80.0 MHz

Channel Power

Bandwidth 38.48 MHz	Power 13.99 dBm	Tx Total 13.99 dBm

11N40MIMO-Ant1-5230-PASS

Spectrum			
Ref Level 30.00 dBm	**Offset** 6.00 dB ● **RBW** 1 MHz		
● **Att** 40 dB	**SWT** 8 ms ● **VBW** 3 MHz	**Mode** Auto Sweep	
SGL Count 300/300			

● 1Rm AvgPwr

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

TX1

CF 5.23016 GHz   8001 pts   Span 80.0 MHz

Channel Power

Bandwidth 38.72 MHz	Power 13.98 dBm	Tx Total 13.98 dBm

11N40MIMO-Ant2-5230-PASS

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11N40MIMO-Ant1-5755-PASS

11N40MIMO-Ant2-5755-PASS

11N40MIMO-Ant1-5795-PASS

11N40MIMO-Ant2-5795-PASS

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11AC20MIMO-Ant1-5180-PASS

11AC20MIMO-Ant2-5180-PASS

Anbotek
Product Safety

Spectrum

Ref Level 30.00 dBm | Offset 6.00 dB | RBW 1 MHz
Att 40 dB | SWT 8 ms | VBW 3 MHz | Mode Auto Sweep
SGL Count 300/300

1Rm AvgPwr

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

TX1

CF 5.2 GHz | 8001 pts | Span 40.0 MHz

Channel Power

Bandwidth 18.64 MHz | Power 14.04 dBm | Tx Total 14.04 dBm

11AC20MIMO-Ant1-5200-PASS

Spectrum

Ref Level 30.00 dBm | Offset 6.00 dB | RBW 1 MHz
Att 40 dB | SWT 8 ms | VBW 3 MHz | Mode Auto Sweep
SGL Count 300/300

1Rm AvgPwr

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

TX1

CF 5.19998 GHz | 8001 pts | Span 40.0 MHz

Channel Power

Bandwidth 18.84 MHz | Power 14.03 dBm | Tx Total 14.03 dBm

11AC20MIMO-Ant2-5200-PASS

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Tel:(86)0755-26066440   Email: service@anbotek.com

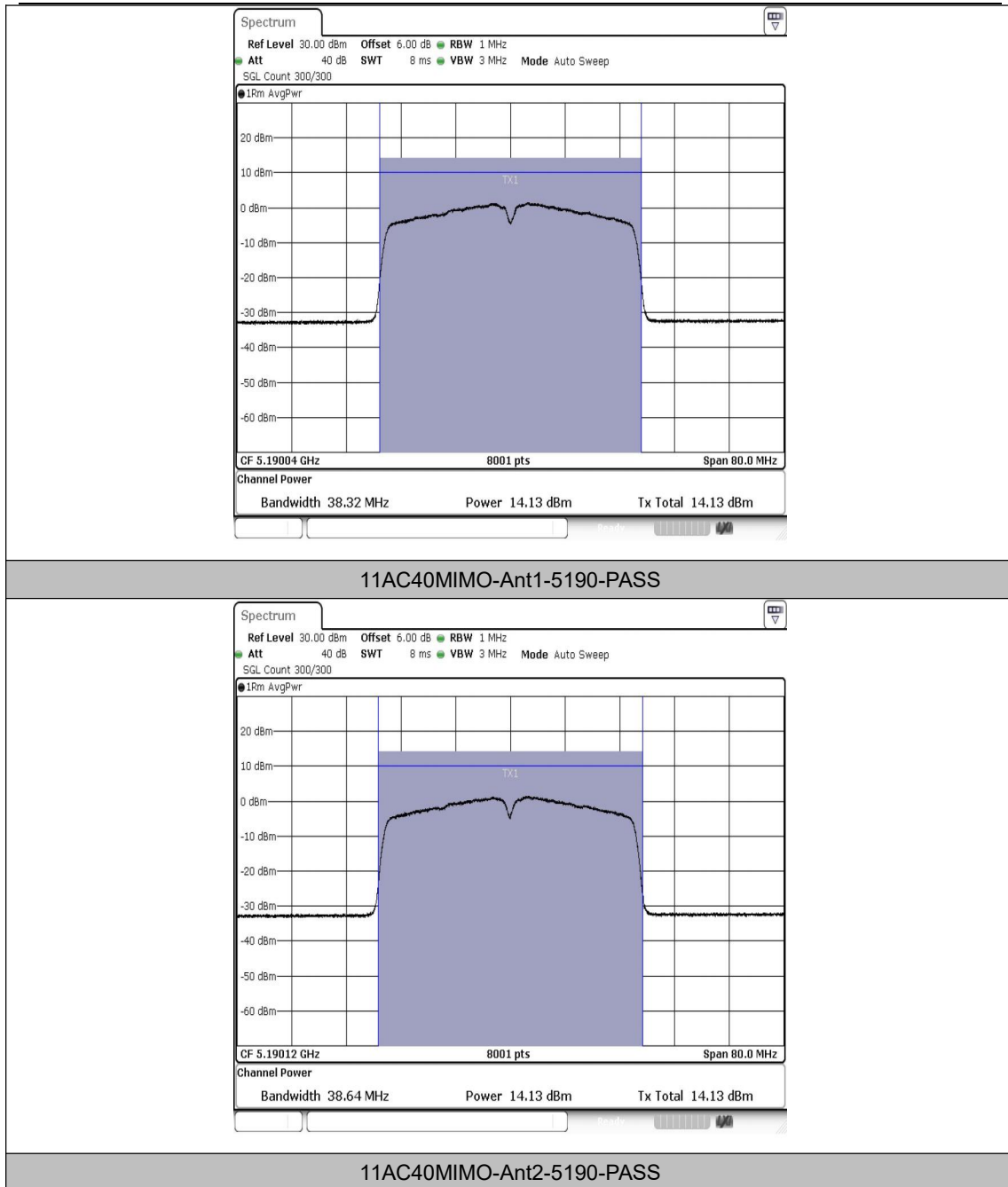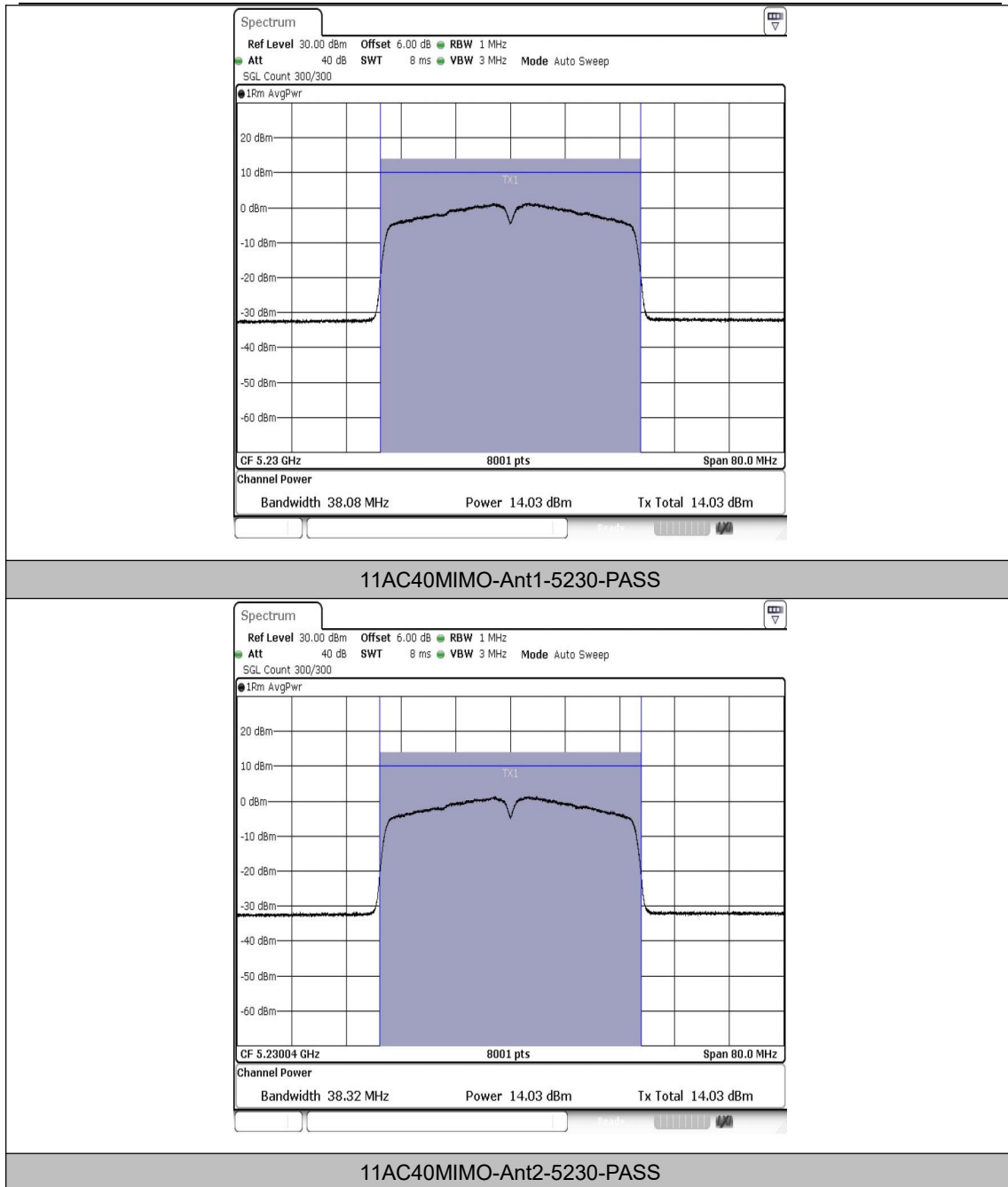Hotline
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11AC20MIMO-Ant1-5240-PASS

11AC20MIMO-Ant2-5240-PASS

11AC20MIMO-Ant1-5745-PASS

11AC20MIMO-Ant2-5745-PASS

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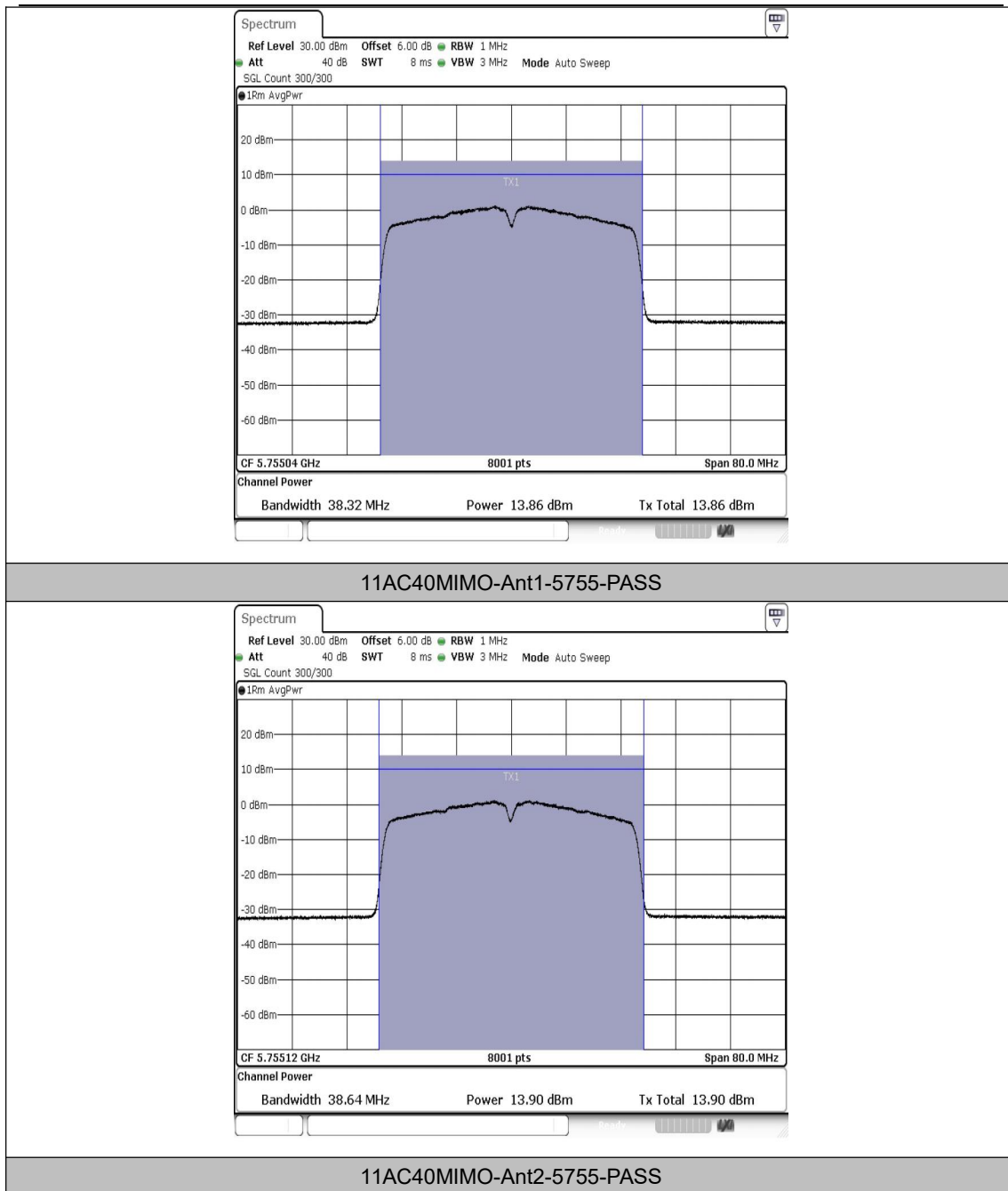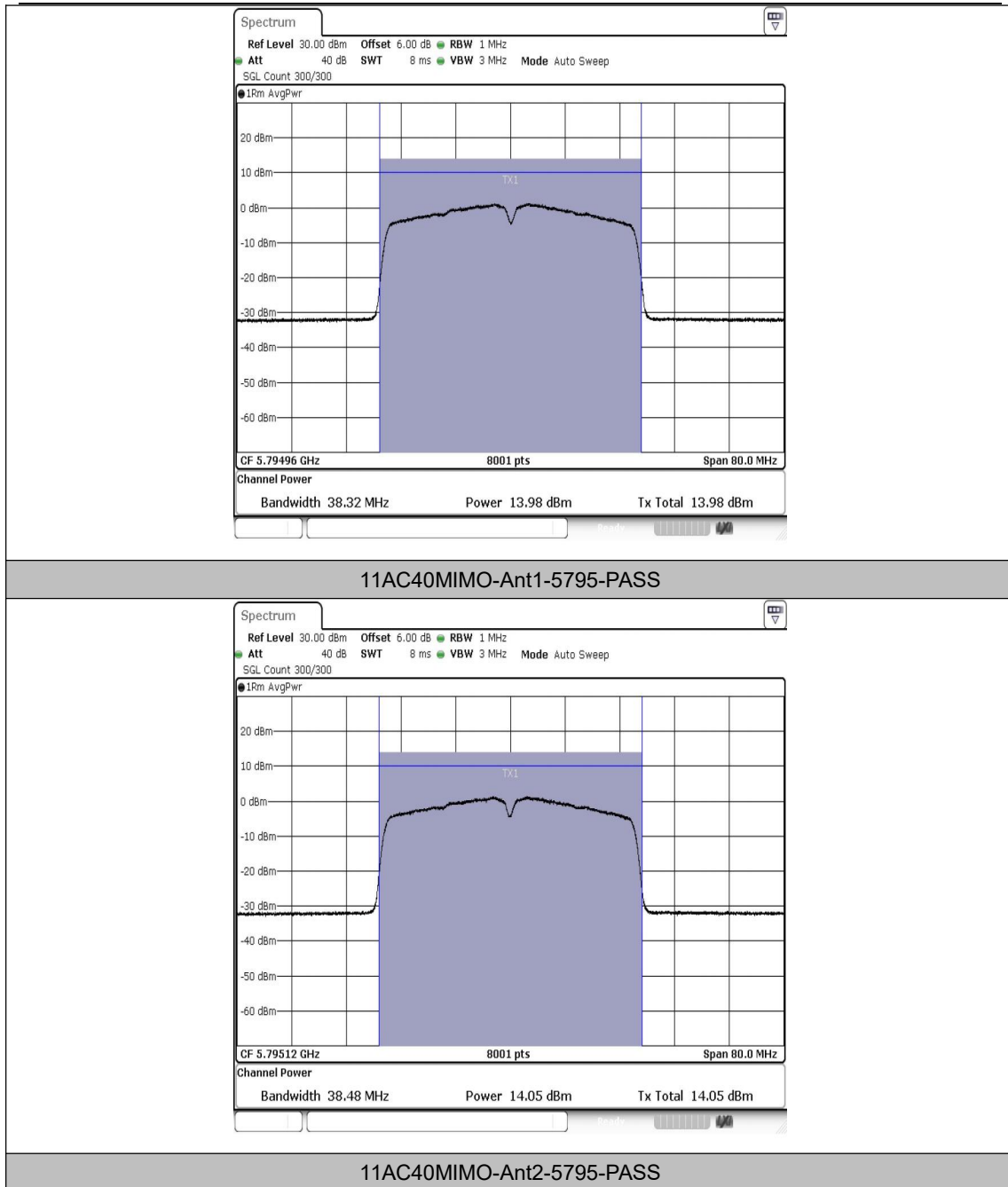Tel:(86)0755-26066440   Email: service@anbotek.com

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11AC20MIMO-Ant1-5785-PASS

11AC20MIMO-Ant2-5785-PASS

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Product Safety
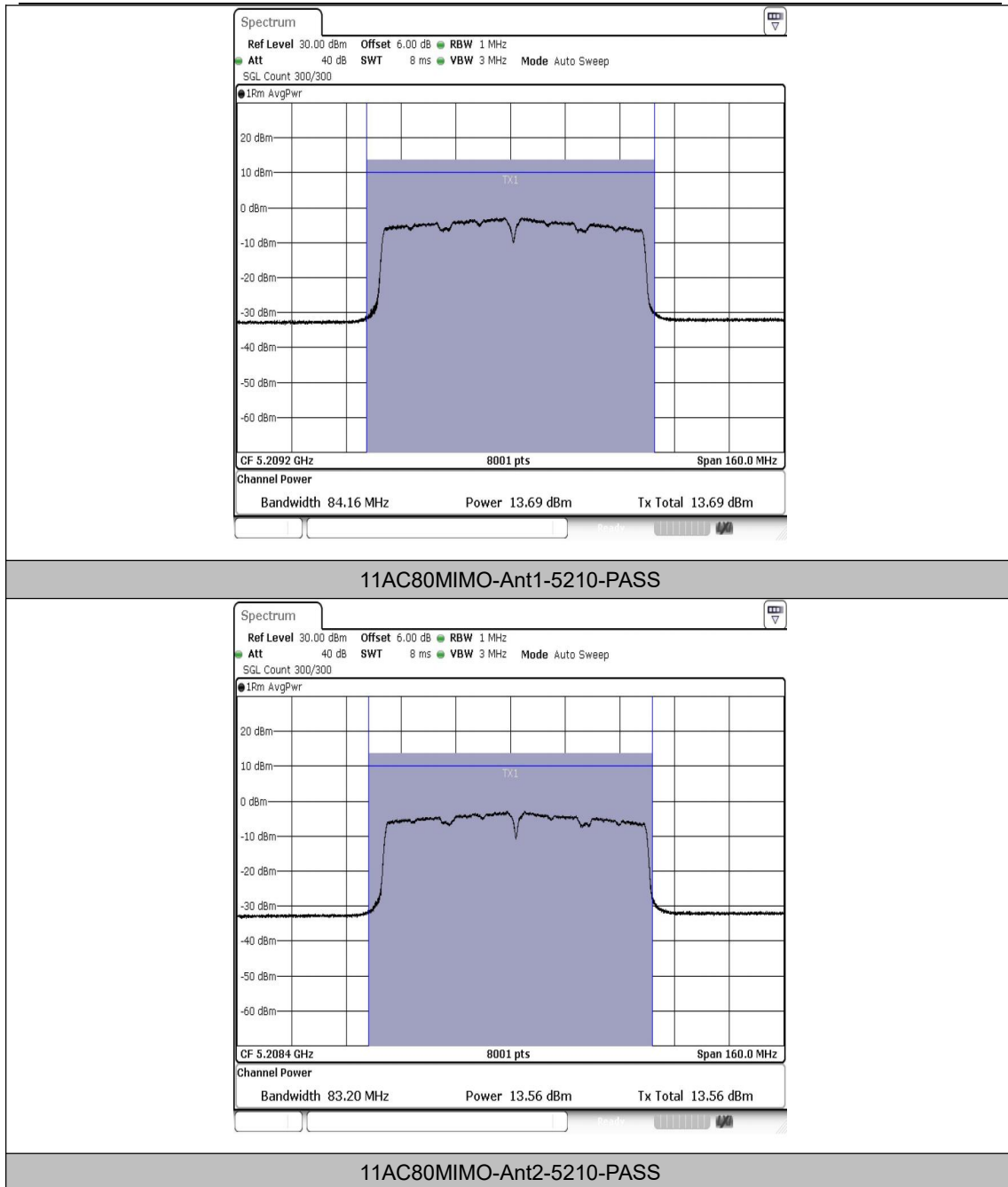

11AC20MIMO-Ant1-5825-PASS

11AC20MIMO-Ant2-5825-PASS

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11AC40MIMO-Ant1-5190-PASS

11AC40MIMO-Ant2-5190-PASS

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11AC40MIMO-Ant1-5230-PASS

11AC40MIMO-Ant2-5230-PASS

11AC40MIMO-Ant1-5755-PASS

11AC40MIMO-Ant2-5755-PASS

11AC40MIMO-Ant1-5795-PASS

11AC40MIMO-Ant2-5795-PASS

11AC80MIMO-Ant1-5210-PASS

11AC80MIMO-Ant2-5210-PASS