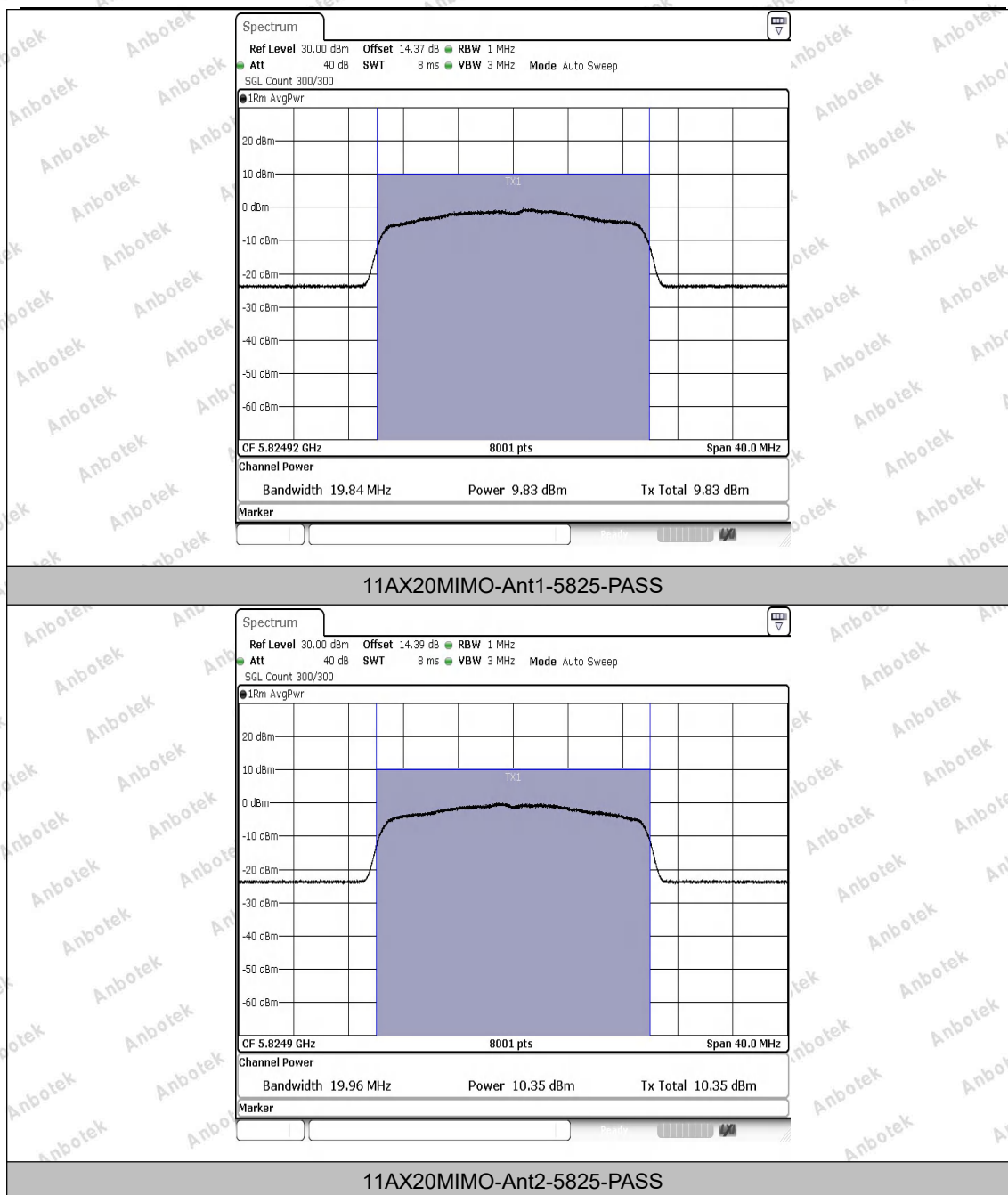
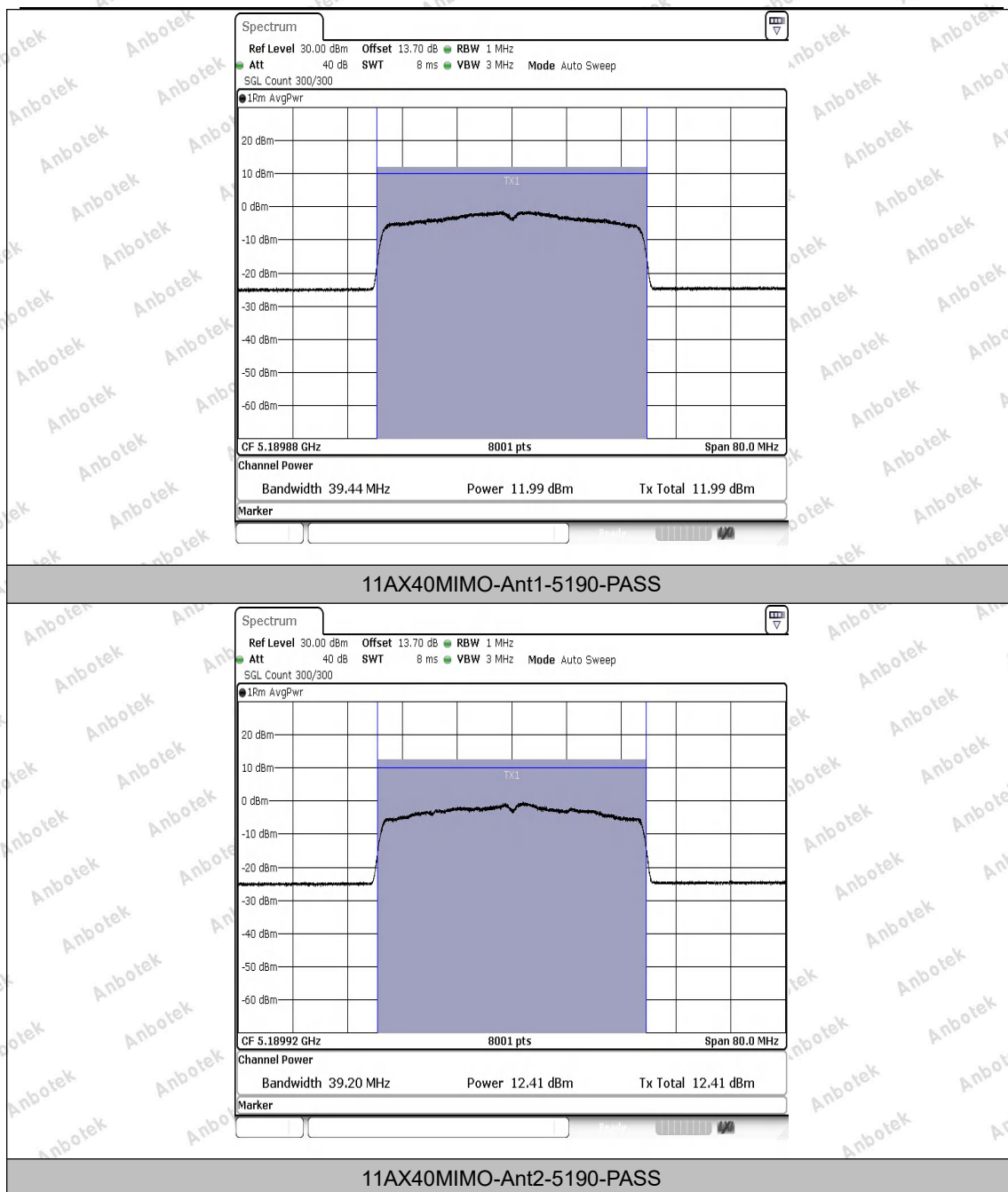
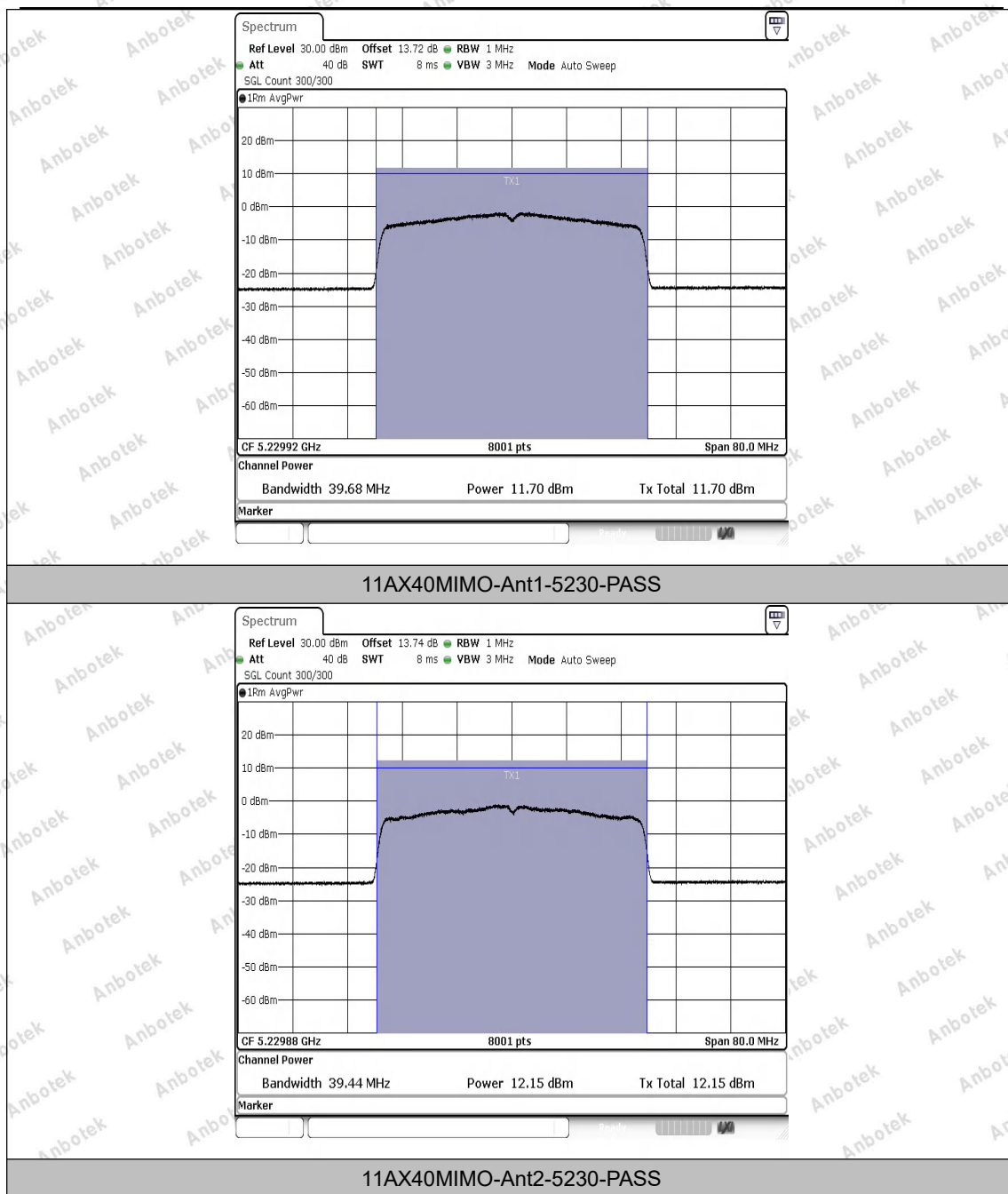
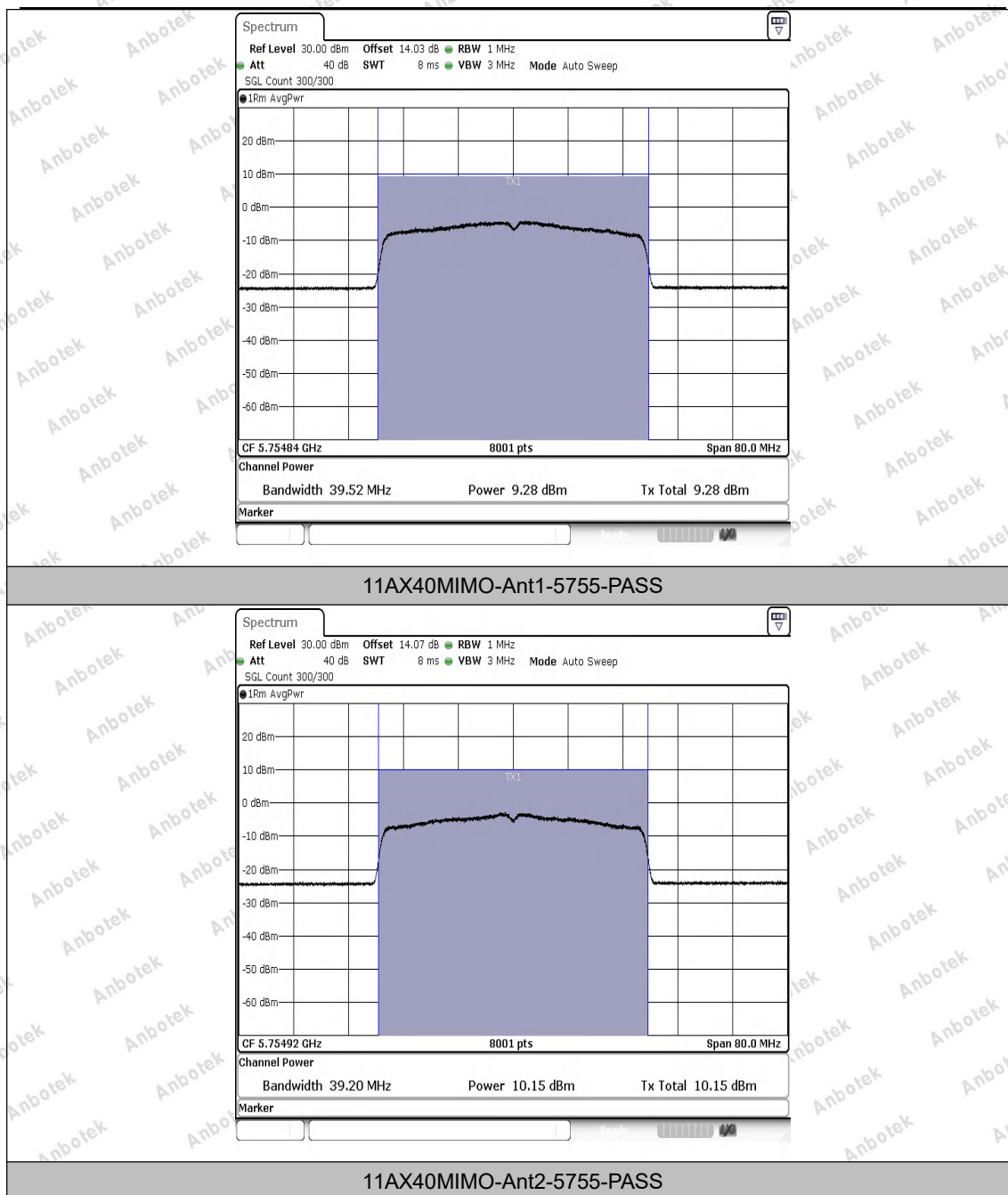


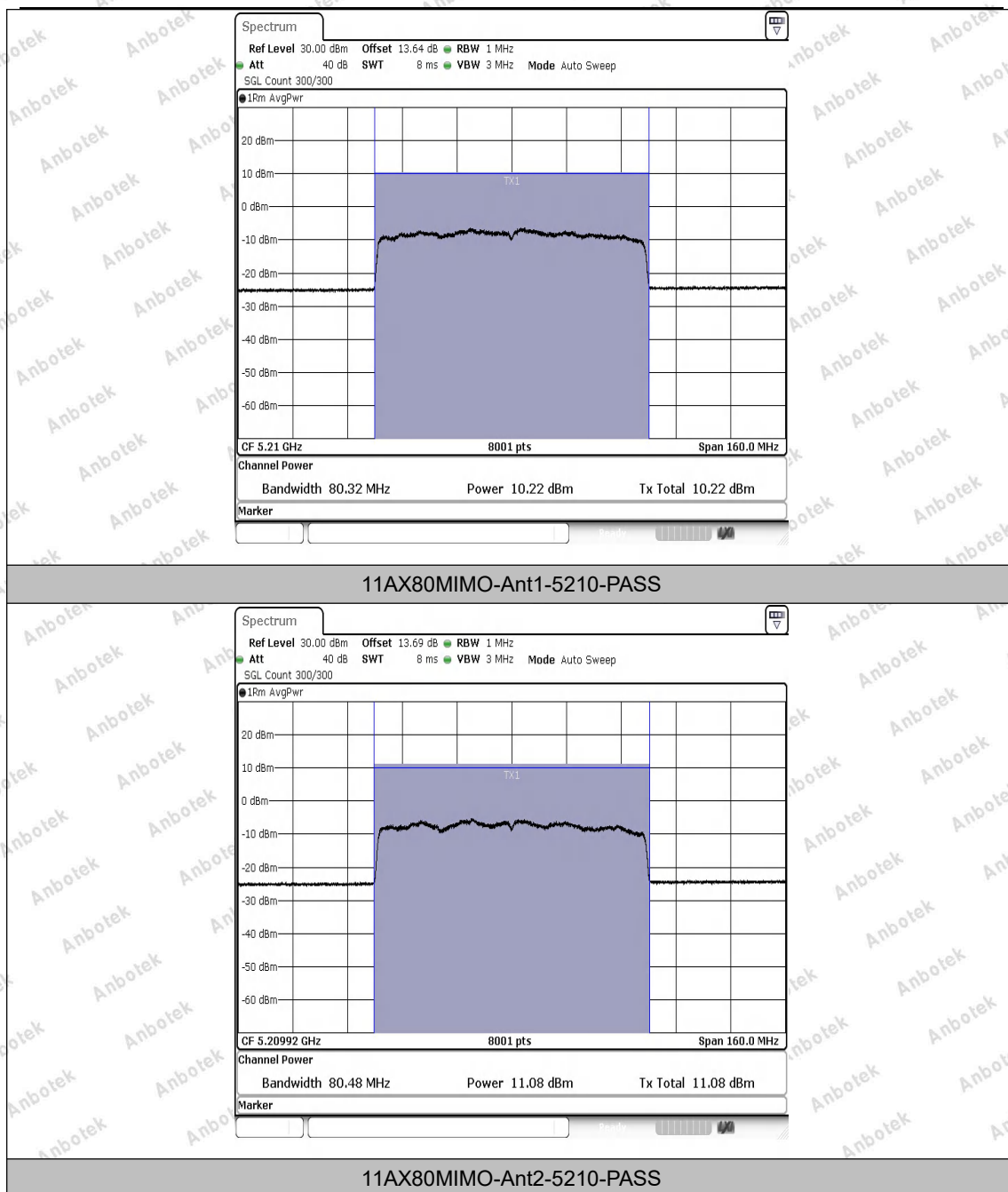


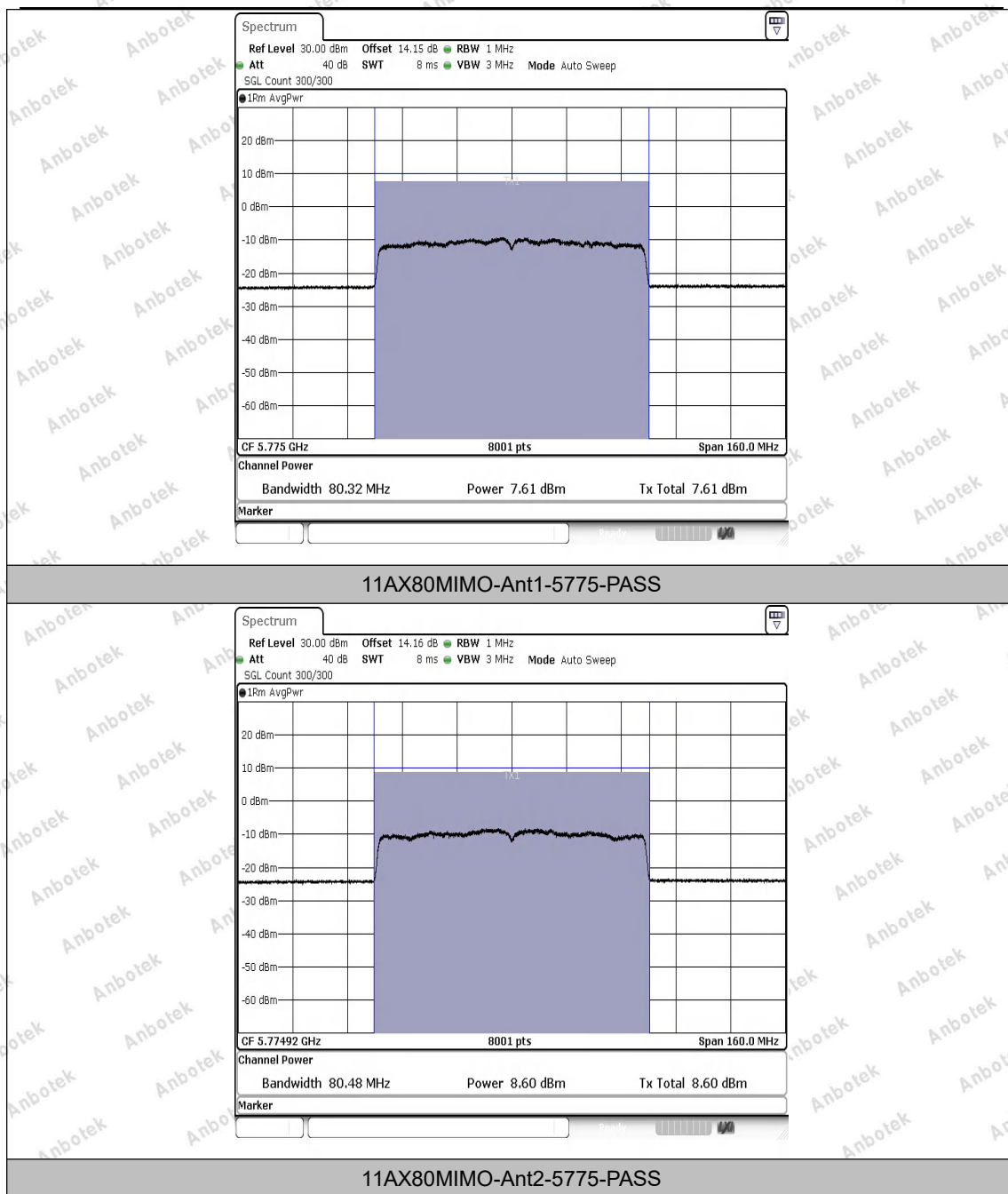












## Appendix D: Maximum power spectral density

### Test Result-B1

| TestMode   | Antenna | Frequency[MHz] | Reading Result[dB m/MHz] | DC Factor [dB] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|--------------------------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 3.67                     | 1.4            | 5.07             | ≤11.00         | PASS    |
| 11A        | Ant2    | 5180           | 1.96                     | 1.38           | 3.34             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5200           | 2.65                     | 1.4            | 4.05             | ≤11.00         | PASS    |
| 11A        | Ant2    | 5200           | 3.74                     | 1.4            | 5.14             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5240           | 3.30                     | 1.4            | 4.70             | ≤11.00         | PASS    |
| 11A        | Ant2    | 5240           | 3.11                     | 1.38           | 4.49             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant1    | 5180           | 3.30                     | 1.46           | 4.76             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant2    | 5180           | 2.55                     | 1.46           | 4.01             | ≤11.00         | PASS    |
| 11N20MIMO  | total   | 5180           | ---                      | ---            | 7.41             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant1    | 5200           | 3.11                     | 1.48           | 4.59             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant2    | 5200           | 3.71                     | 1.48           | 5.19             | ≤11.00         | PASS    |
| 11N20MIMO  | total   | 5200           | ---                      | ---            | 7.91             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant1    | 5240           | 3.24                     | 1.46           | 4.70             | ≤11.00         | PASS    |
| 11N20MIMO  | Ant2    | 5240           | 2.37                     | 1.46           | 3.83             | ≤11.00         | PASS    |
| 11N20MIMO  | total   | 5240           | ---                      | ---            | 7.30             | ≤11.00         | PASS    |
| 11N40MIMO  | Ant1    | 5190           | 0.07                     | 2.58           | 2.65             | ≤11.00         | PASS    |
| 11N40MIMO  | Ant2    | 5190           | -1.45                    | 2.58           | 1.13             | ≤11.00         | PASS    |
| 11N40MIMO  | total   | 5190           | ---                      | ---            | 4.97             | ≤11.00         | PASS    |
| 11N40MIMO  | Ant1    | 5230           | -0.85                    | 2.58           | 1.73             | ≤11.00         | PASS    |
| 11N40MIMO  | Ant2    | 5230           | -0.17                    | 2.63           | 2.46             | ≤11.00         | PASS    |
| 11N40MIMO  | total   | 5230           | ---                      | ---            | 5.12             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5180           | 3.52                     | 1.4            | 4.92             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5180           | 3.13                     | 1.59           | 4.72             | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5180           | ---                      | ---            | 7.83             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5200           | 2.73                     | 1.4            | 4.13             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5200           | 3.46                     | 1.49           | 4.95             | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5200           | ---                      | ---            | 7.57             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5240           | 2.72                     | 1.45           | 4.17             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5240           | 3.53                     | 1.45           | 4.98             | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5240           | ---                      | ---            | 7.60             | ≤11.00         | PASS    |
| 11AC40MIMO | Ant1    | 5190           | 0.23                     | 2.52           | 2.75             | ≤11.00         | PASS    |
| 11AC40MIMO | Ant2    | 5190           | -1.28                    | 2.34           | 1.06             | ≤11.00         | PASS    |
| 11AC40MIMO | total   | 5190           | ---                      | ---            | 5.00             | ≤11.00         | PASS    |
| 11AC40MIMO | Ant1    | 5230           | -0.70                    | 2.55           | 1.85             | ≤11.00         | PASS    |
| 11AC40MIMO | Ant2    | 5230           | -0.71                    | 2.59           | 1.88             | ≤11.00         | PASS    |

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|            |       |      |       |      |       |        |      |
|------------|-------|------|-------|------|-------|--------|------|
| 11AC40MIMO | total | 5230 | ---   | ---  | 4.88  | ≤11.00 | PASS |
| 11AC80MIMO | Ant1  | 5210 | -5.12 | 3.14 | -1.98 | ≤11.00 | PASS |
| 11AC80MIMO | Ant2  | 5210 | -4.74 | 3.52 | -1.22 | ≤11.00 | PASS |
| 11AC80MIMO | total | 5210 | ---   | ---  | 1.43  | ≤11.00 | PASS |
| 11AX20MIMO | Ant1  | 5180 | 3.36  | 1.8  | 5.16  | ≤11.00 | PASS |
| 11AX20MIMO | Ant2  | 5180 | 2.76  | 1.83 | 4.59  | ≤11.00 | PASS |
| 11AX20MIMO | total | 5180 | ---   | ---  | 7.89  | ≤11.00 | PASS |
| 11AX20MIMO | Ant1  | 5200 | 3.28  | 1.79 | 5.07  | ≤11.00 | PASS |
| 11AX20MIMO | Ant2  | 5200 | 3.00  | 1.79 | 4.79  | ≤11.00 | PASS |
| 11AX20MIMO | total | 5200 | ---   | ---  | 7.94  | ≤11.00 | PASS |
| 11AX20MIMO | Ant1  | 5240 | 2.06  | 1.8  | 3.86  | ≤11.00 | PASS |
| 11AX20MIMO | Ant2  | 5240 | 1.41  | 1.8  | 3.21  | ≤11.00 | PASS |
| 11AX20MIMO | total | 5240 | ---   | ---  | 6.56  | ≤11.00 | PASS |
| 11AX40MIMO | Ant1  | 5190 | -0.90 | 2.93 | 2.03  | ≤11.00 | PASS |
| 11AX40MIMO | Ant2  | 5190 | -0.18 | 2.97 | 2.79  | ≤11.00 | PASS |
| 11AX40MIMO | total | 5190 | ---   | ---  | 5.44  | ≤11.00 | PASS |
| 11AX40MIMO | Ant1  | 5230 | -1.64 | 2.89 | 1.25  | ≤11.00 | PASS |
| 11AX40MIMO | Ant2  | 5230 | -1.41 | 2.85 | 1.44  | ≤11.00 | PASS |
| 11AX40MIMO | total | 5230 | ---   | ---  | 4.36  | ≤11.00 | PASS |
| 11AX80MIMO | Ant1  | 5210 | -5.76 | 4.46 | -1.30 | ≤11.00 | PASS |
| 11AX80MIMO | Ant2  | 5210 | -5.25 | 4.46 | -0.79 | ≤11.00 | PASS |
| 11AX80MIMO | total | 5210 | ---   | ---  | 1.97  | ≤11.00 | PASS |

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

2.WiFi 5.2G: As  $\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$  dBi=4.76<6dBi,  
so limit=23.98dBm.

3.NOTE: MIMO=  $10 * \log((10^{\text{ANT1}/10} + 10^{\text{ANT2}/10}))$

## Test Result-B4

| TestMode  | Antenna | Frequency[MHz] | Reading Result[dB m/MHz] | DC Factor [dB] | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|-----------|---------|----------------|--------------------------|----------------|---------------------|-------------------|---------|
| 11A       | Ant1    | 5745           | -1.84                    | 1.38           | -0.46               | ≤30.00            | PASS    |
| 11A       | Ant2    | 5745           | -1.02                    | 1.38           | 0.36                | ≤30.00            | PASS    |
| 11A       | Ant1    | 5785           | -2.19                    | 1.37           | -0.82               | ≤30.00            | PASS    |
| 11A       | Ant2    | 5785           | -1.64                    | 1.37           | -0.27               | ≤30.00            | PASS    |
| 11A       | Ant1    | 5825           | -2.00                    | 1.38           | -0.62               | ≤30.00            | PASS    |
| 11A       | Ant2    | 5825           | -1.61                    | 1.36           | -0.25               | ≤30.00            | PASS    |
| 11N20MIMO | Ant1    | 5745           | -2.50                    | 1.46           | -1.04               | ≤30.00            | PASS    |
| 11N20MIMO | Ant2    | 5745           | -1.85                    | 1.46           | -0.39               | ≤30.00            | PASS    |
| 11N20MIMO | total   | 5745           | ---                      | ---            | 2.31                | ≤29.11            | PASS    |
| 11N20MIMO | Ant1    | 5785           | -2.79                    | 1.48           | -1.31               | ≤30.00            | PASS    |

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|            |       |      |        |      |       |        |      |
|------------|-------|------|--------|------|-------|--------|------|
| 11N20MIMO  | Ant2  | 5785 | -2.35  | 1.45 | -0.90 | ≤30.00 | PASS |
| 11N20MIMO  | total | 5785 | ---    | ---  | 1.91  | ≤29.11 | PASS |
| 11N20MIMO  | Ant1  | 5825 | -2.48  | 1.48 | -1.00 | ≤30.00 | PASS |
| 11N20MIMO  | Ant2  | 5825 | -1.62  | 1.45 | -0.17 | ≤30.00 | PASS |
| 11N20MIMO  | total | 5825 | ---    | ---  | 2.45  | ≤29.11 | PASS |
| 11N40MIMO  | Ant1  | 5755 | -5.76  | 2.58 | -3.18 | ≤30.00 | PASS |
| 11N40MIMO  | Ant2  | 5755 | -5.96  | 2.58 | -3.38 | ≤30.00 | PASS |
| 11N40MIMO  | total | 5755 | ---    | ---  | -0.27 | ≤29.11 | PASS |
| 11N40MIMO  | Ant1  | 5795 | -6.67  | 2.36 | -4.31 | ≤30.00 | PASS |
| 11N40MIMO  | Ant2  | 5795 | -6.58  | 2.4  | -4.18 | ≤30.00 | PASS |
| 11N40MIMO  | total | 5795 | ---    | ---  | -1.23 | ≤29.11 | PASS |
| 11AC20MIMO | Ant1  | 5745 | -2.22  | 1.4  | -0.82 | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5745 | -1.95  | 1.5  | -0.45 | ≤30.00 | PASS |
| 11AC20MIMO | total | 5745 | ---    | ---  | 2.38  | ≤29.11 | PASS |
| 11AC20MIMO | Ant1  | 5785 | -2.83  | 1.48 | -1.35 | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5785 | -1.28  | 1.5  | 0.22  | ≤30.00 | PASS |
| 11AC20MIMO | total | 5785 | ---    | ---  | 2.52  | ≤29.11 | PASS |
| 11AC20MIMO | Ant1  | 5825 | -2.31  | 1.4  | -0.91 | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5825 | -2.61  | 1.43 | -1.18 | ≤30.00 | PASS |
| 11AC20MIMO | total | 5825 | ---    | ---  | 1.97  | ≤29.11 | PASS |
| 11AC40MIMO | Ant1  | 5755 | -6.75  | 2.55 | -4.20 | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5755 | -5.08  | 2.59 | -2.49 | ≤30.00 | PASS |
| 11AC40MIMO | total | 5755 | ---    | ---  | -0.25 | ≤29.11 | PASS |
| 11AC40MIMO | Ant1  | 5795 | -5.45  | 2.55 | -2.90 | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5795 | -6.34  | 2.59 | -3.75 | ≤30.00 | PASS |
| 11AC40MIMO | total | 5795 | ---    | ---  | -0.29 | ≤29.11 | PASS |
| 11AC80MIMO | Ant1  | 5775 | -10.97 | 3.39 | -7.58 | ≤30.00 | PASS |
| 11AC80MIMO | Ant2  | 5775 | -10.51 | 3.45 | -7.06 | ≤30.00 | PASS |
| 11AC80MIMO | total | 5775 | ---    | ---  | -4.30 | ≤29.11 | PASS |
| 11AX20MIMO | Ant1  | 5745 | -2.33  | 1.8  | -0.53 | ≤30.00 | PASS |
| 11AX20MIMO | Ant2  | 5745 | -1.53  | 1.83 | 0.30  | ≤30.00 | PASS |
| 11AX20MIMO | total | 5745 | ---    | ---  | 2.92  | ≤29.11 | PASS |
| 11AX20MIMO | Ant1  | 5785 | -3.60  | 1.79 | -1.81 | ≤30.00 | PASS |
| 11AX20MIMO | Ant2  | 5785 | -2.38  | 1.67 | -0.71 | ≤30.00 | PASS |
| 11AX20MIMO | total | 5785 | ---    | ---  | 1.79  | ≤29.11 | PASS |
| 11AX20MIMO | Ant1  | 5825 | -4.11  | 1.22 | -2.89 | ≤30.00 | PASS |
| 11AX20MIMO | Ant2  | 5825 | -3.43  | 1.73 | -1.70 | ≤30.00 | PASS |
| 11AX20MIMO | total | 5825 | ---    | ---  | 0.76  | ≤29.11 | PASS |
| 11AX40MIMO | Ant1  | 5755 | -6.34  | 2.85 | -3.49 | ≤30.00 | PASS |
| 11AX40MIMO | Ant2  | 5755 | -5.75  | 2.89 | -2.86 | ≤30.00 | PASS |
| 11AX40MIMO | total | 5755 | ---    | ---  | -0.15 | ≤29.11 | PASS |
| 11AX40MIMO | Ant1  | 5795 | -6.82  | 3.01 | -3.81 | ≤30.00 | PASS |

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|            |       |      |        |      |       |        |      |
|------------|-------|------|--------|------|-------|--------|------|
| 11AX40MIMO | Ant2  | 5795 | -5.99  | 3.01 | -2.98 | ≤30.00 | PASS |
| 11AX40MIMO | total | 5795 | ---    | ---  | -0.36 | ≤29.11 | PASS |
| 11AX80MIMO | Ant1  | 5775 | -11.41 | 4.46 | -6.95 | ≤30.00 | PASS |
| 11AX80MIMO | Ant2  | 5775 | -10.76 | 4.46 | -6.30 | ≤30.00 | PASS |
| 11AX80MIMO | total | 5775 | ---    | ---  | -3.60 | ≤29.11 | PASS |

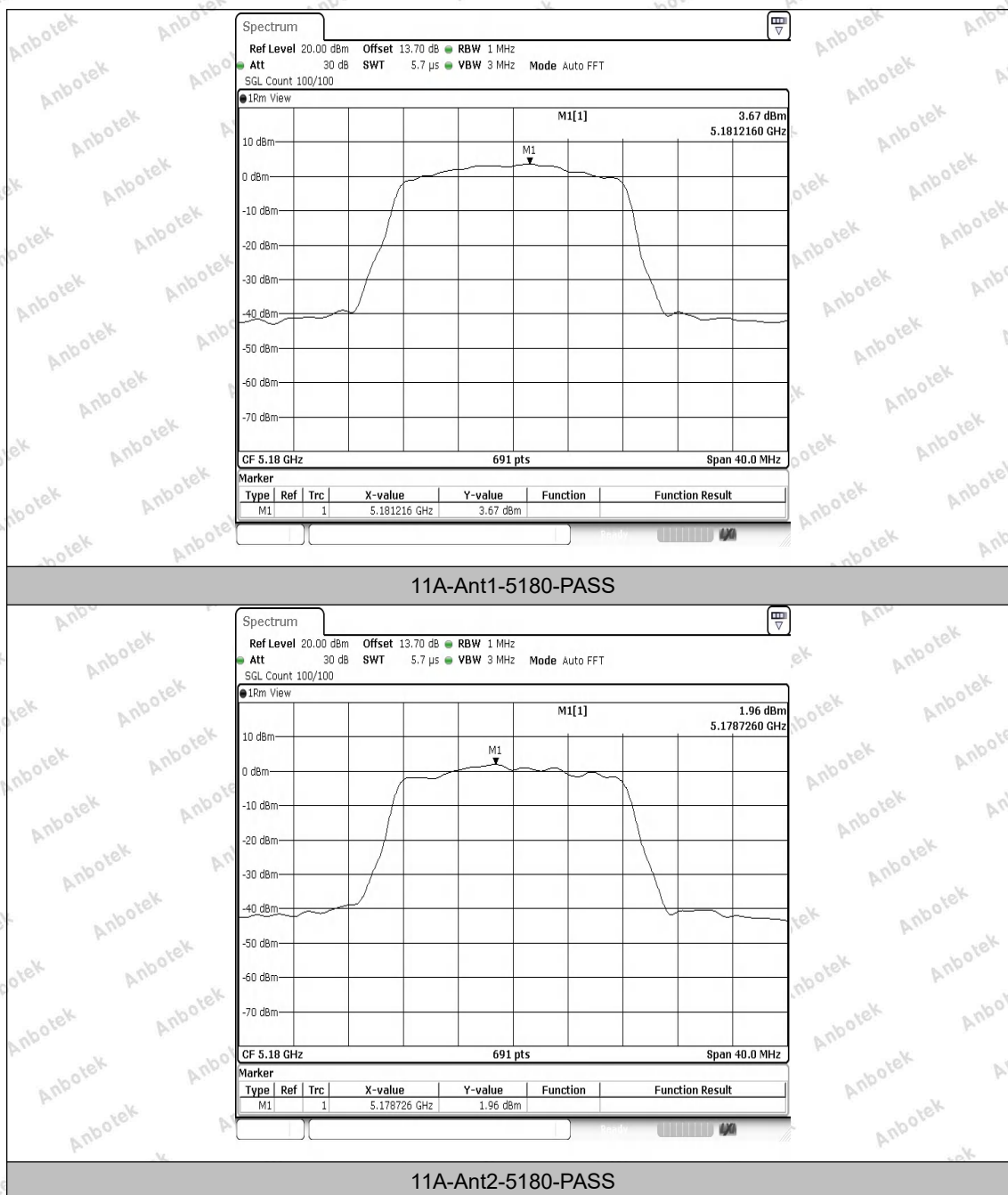
Note: 1.The cable loss are compensated in the graph.

2.WiFi 5.8G: As Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20}) / N_{ANT}]$  dBi=6.89>6dBi,  
so limit=30-(6.89-6)dBm=29.11dBm.

3.NOTE: MIMO=  $10 * \log((10^{ANT1/10}) + 10^{(ANT2/10)})$



## Test Graphs



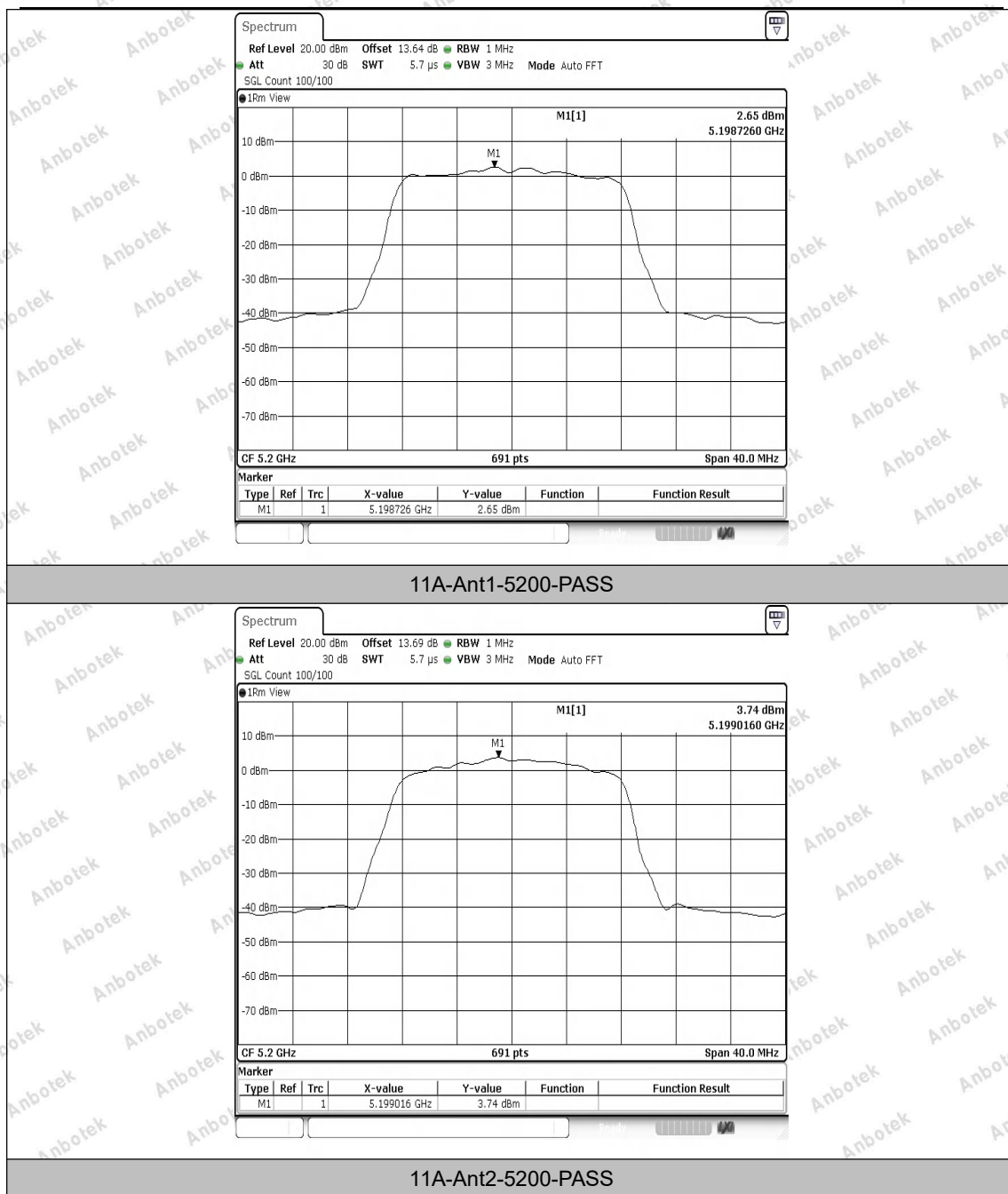
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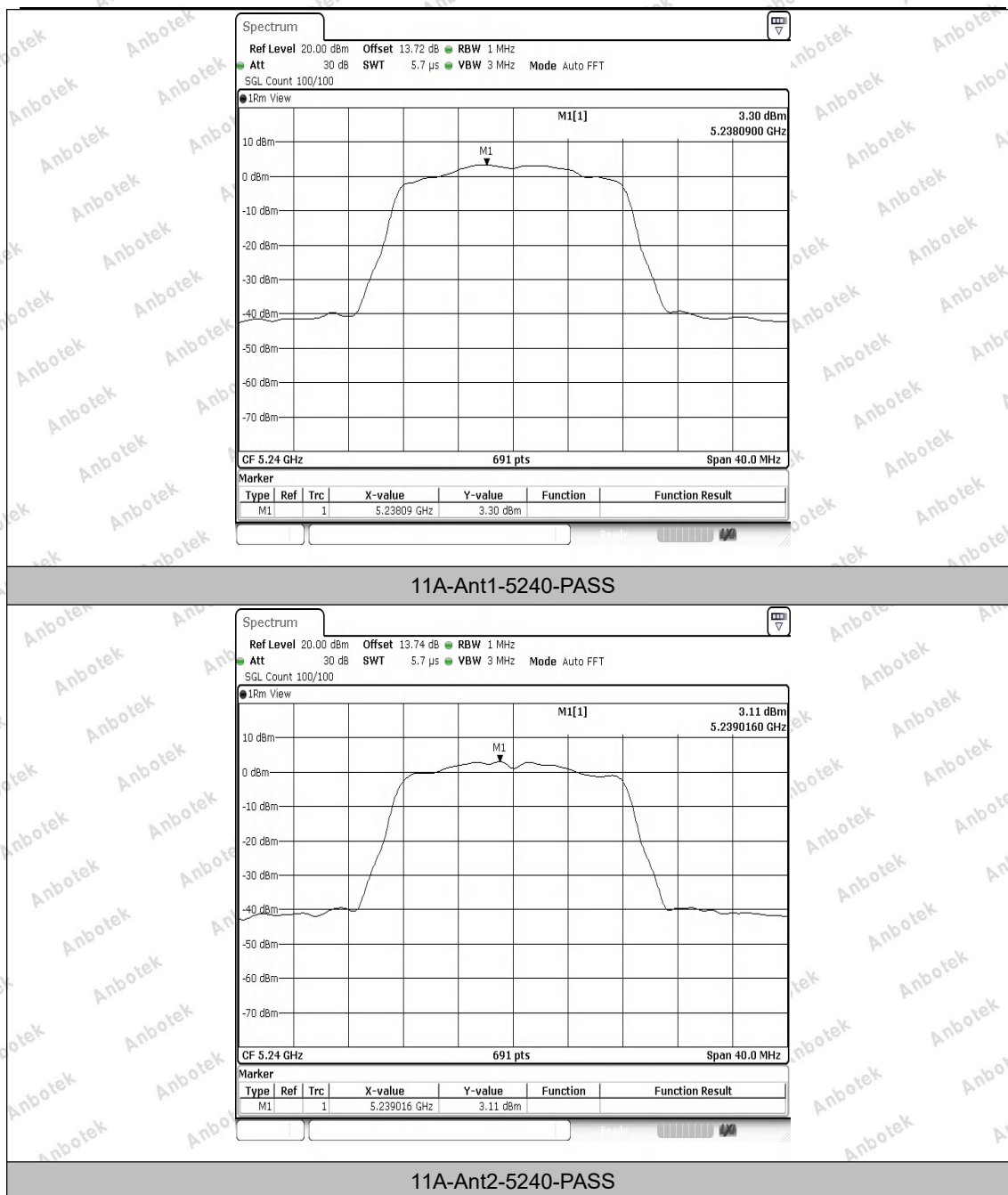
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,  
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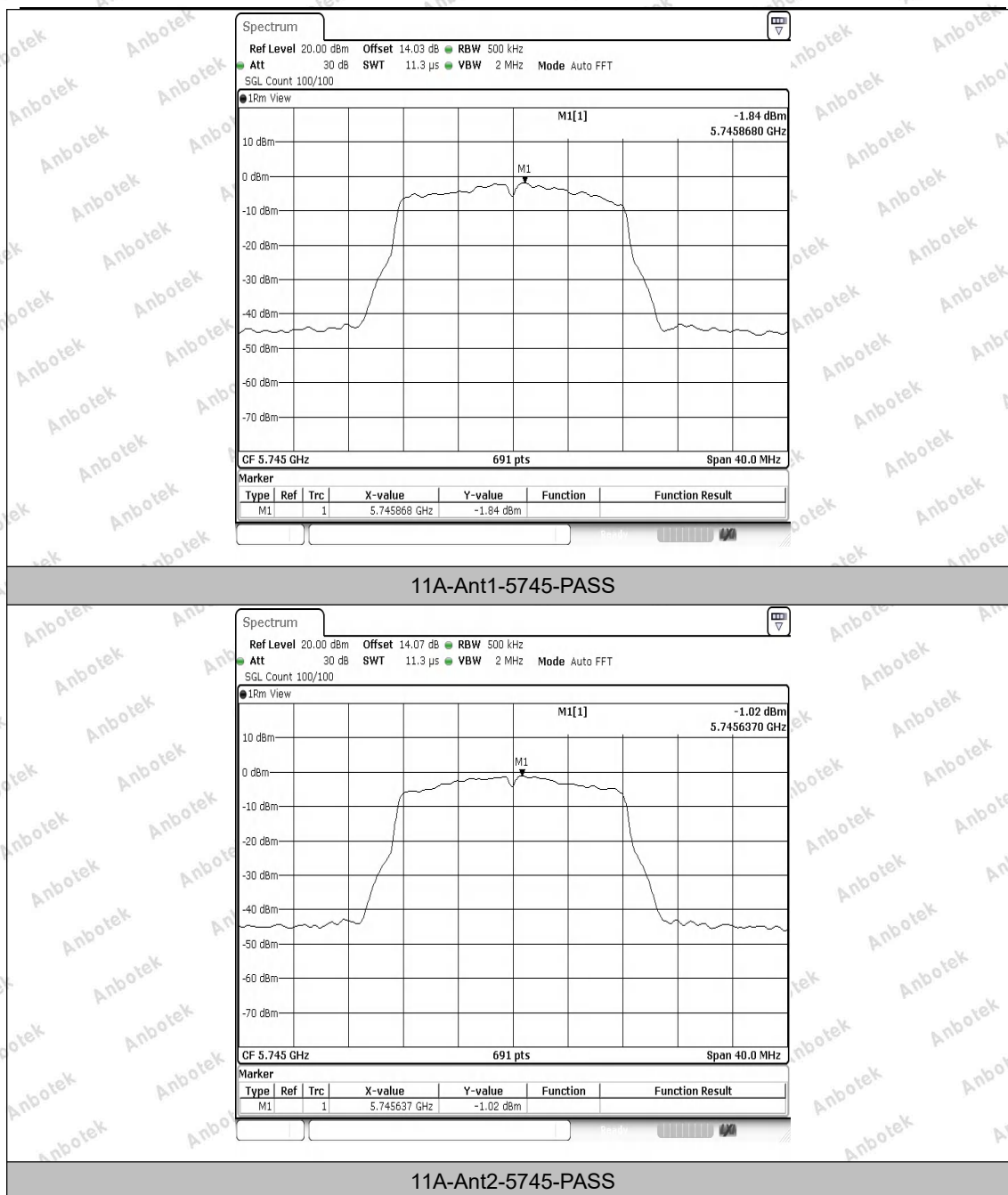
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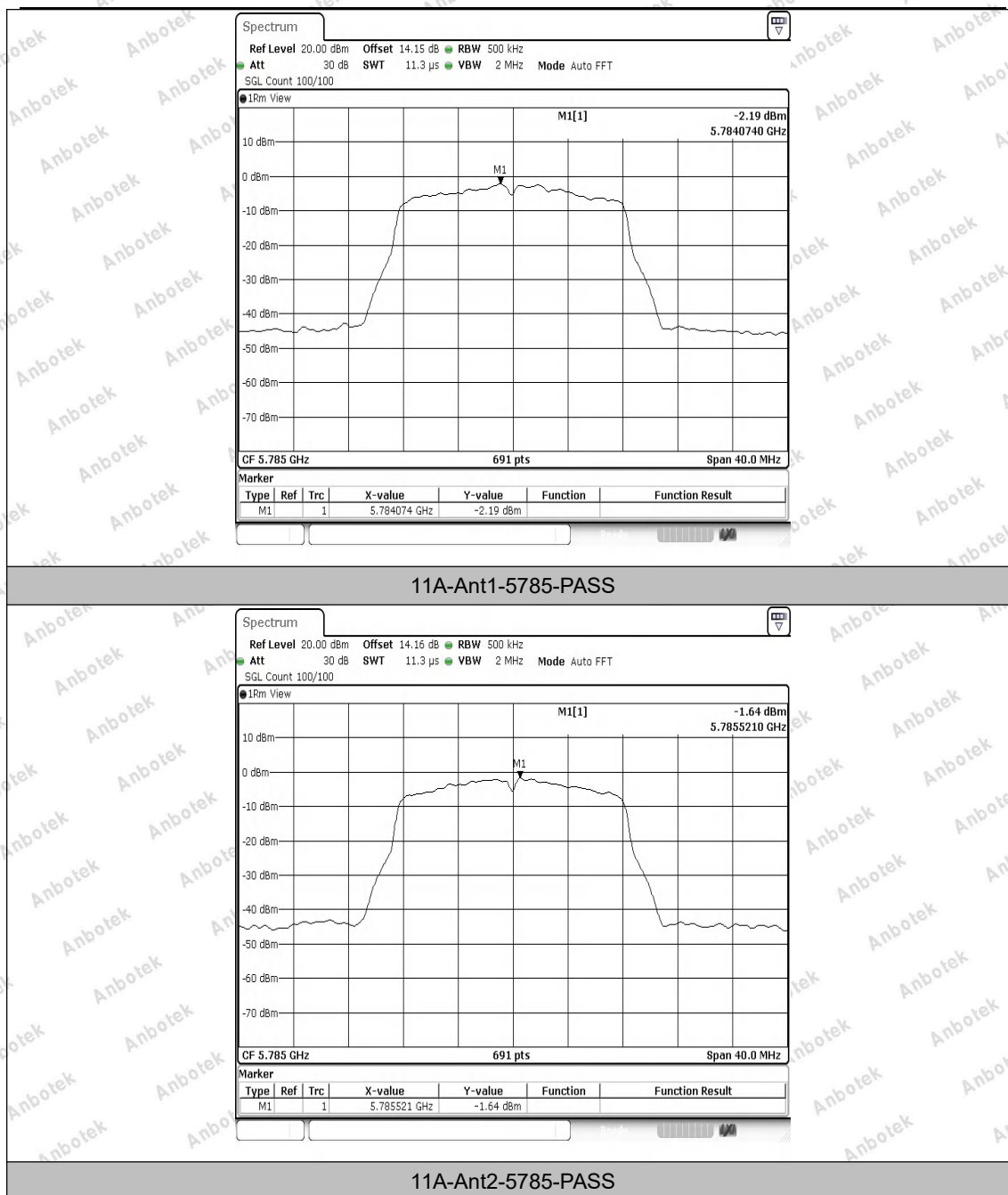
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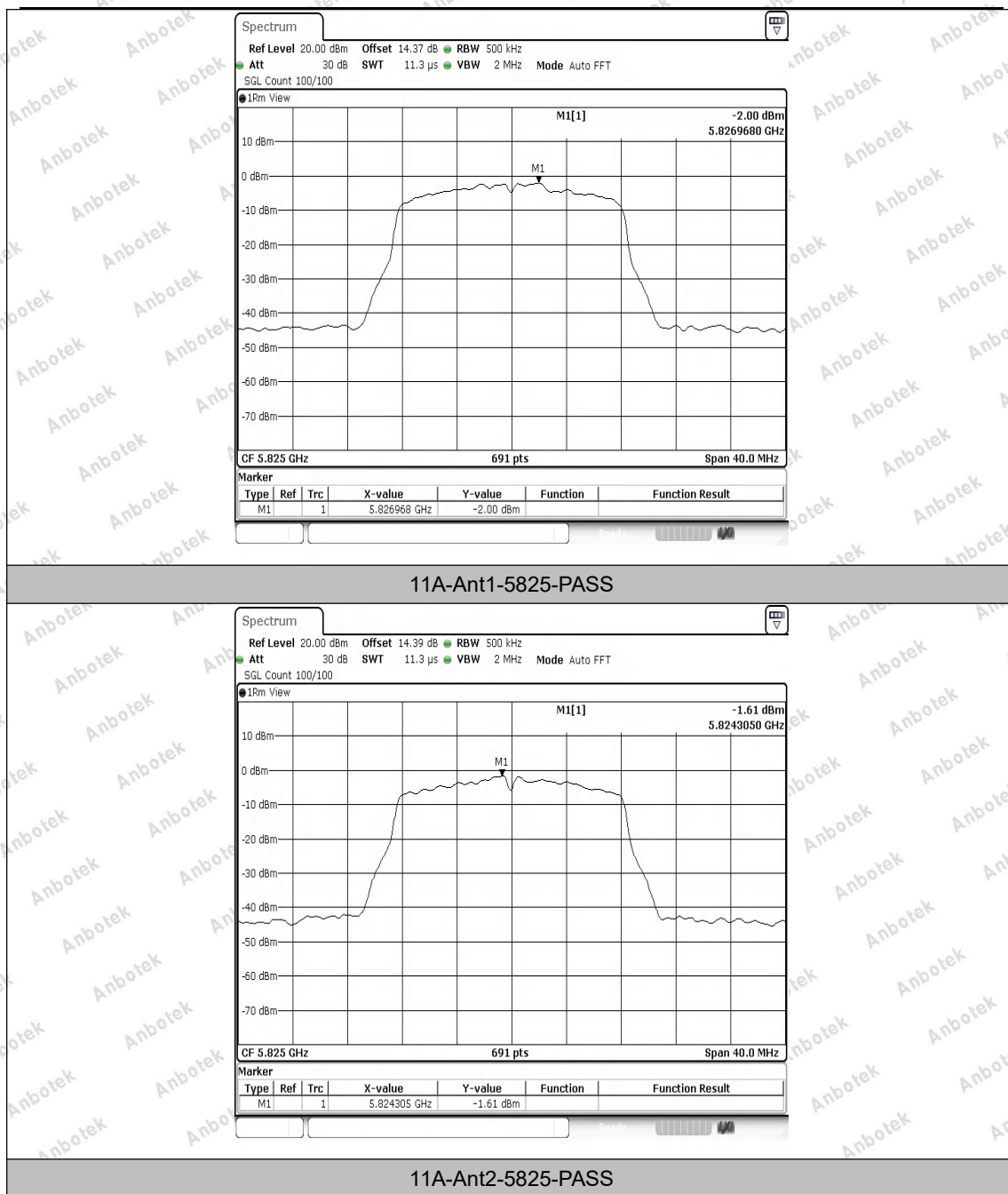
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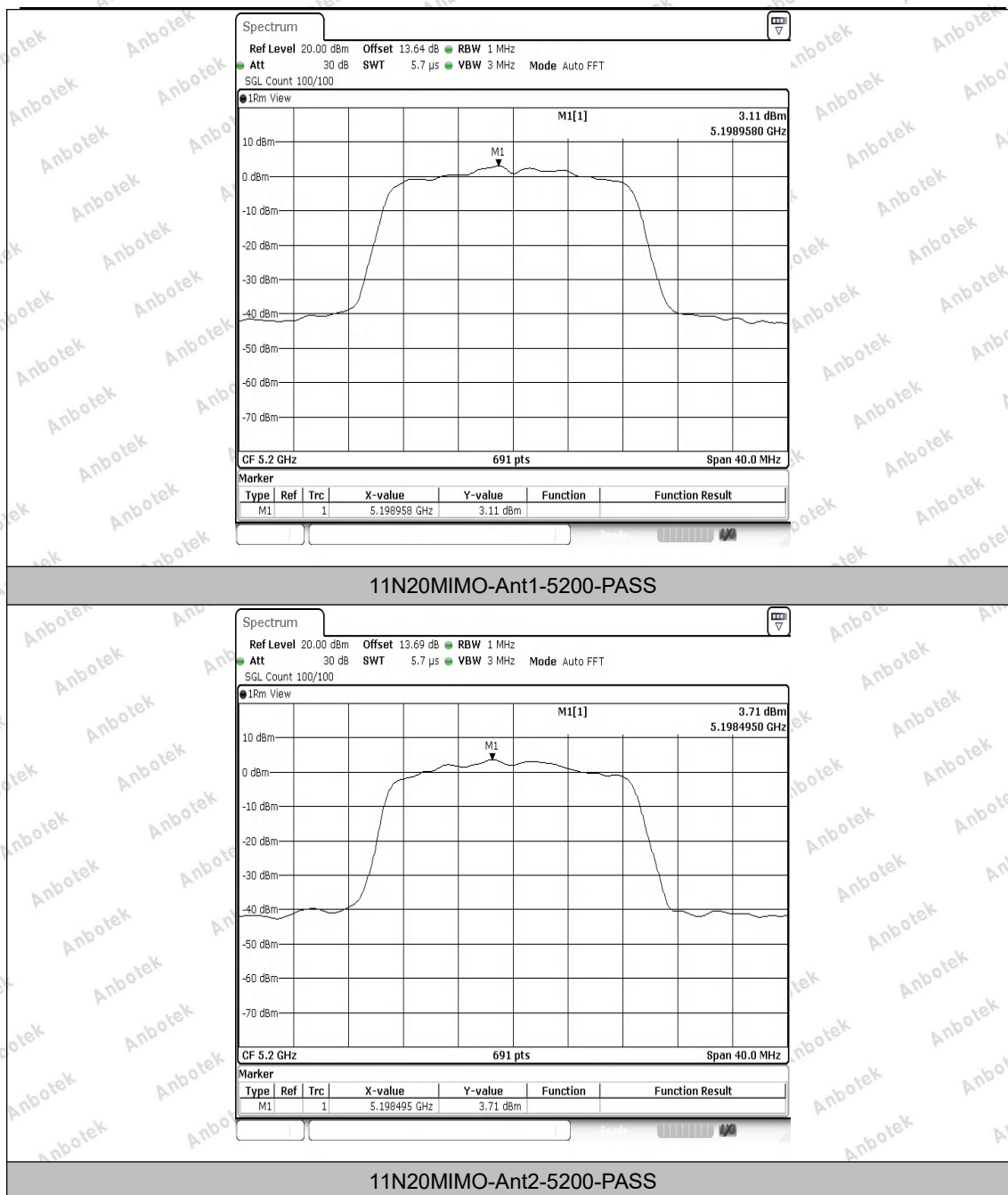


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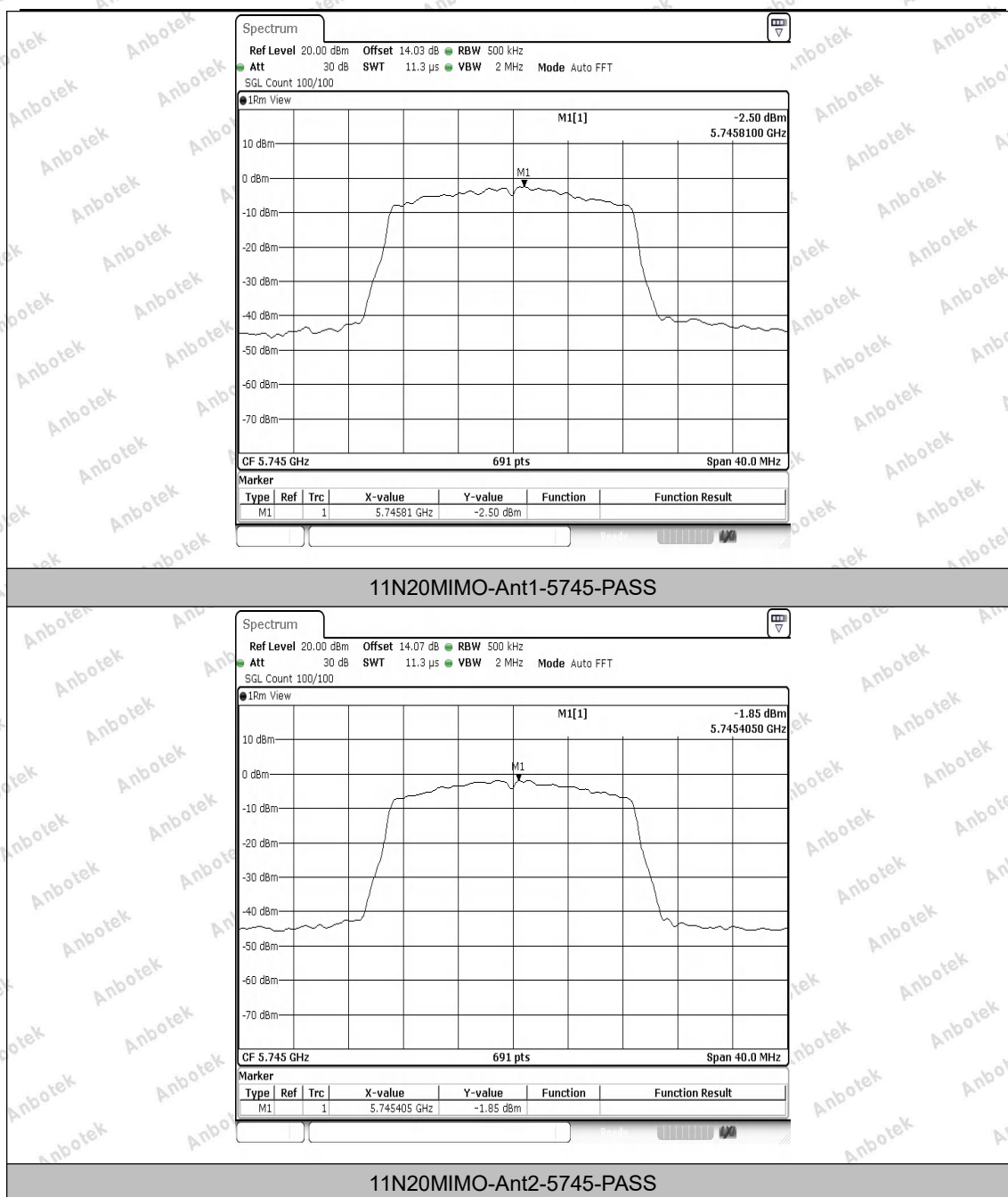
## Shenzhen Anbotek Compliance Laboratory Limited

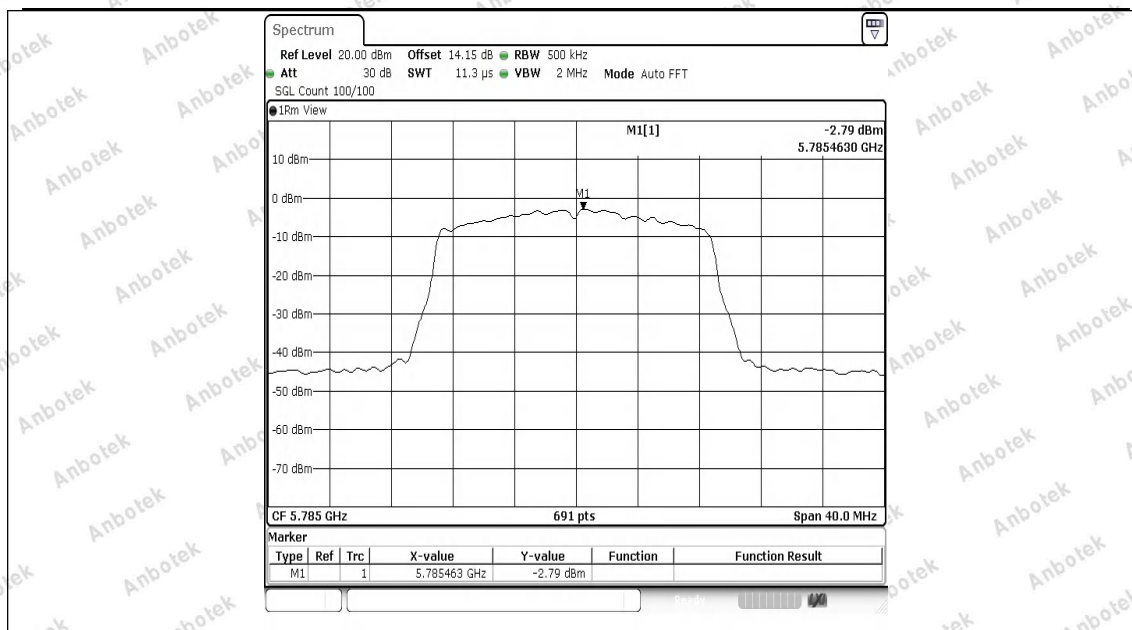
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,  
Sanwei Community, Hahqcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China,  
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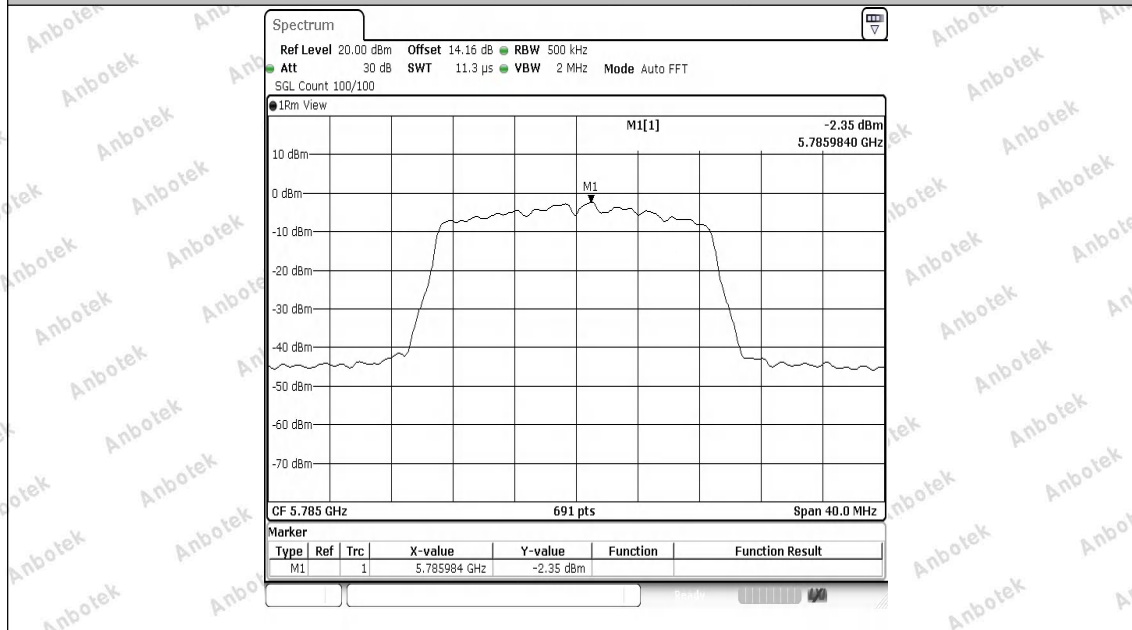
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11N20MIMO-Ant1-5785-PASS

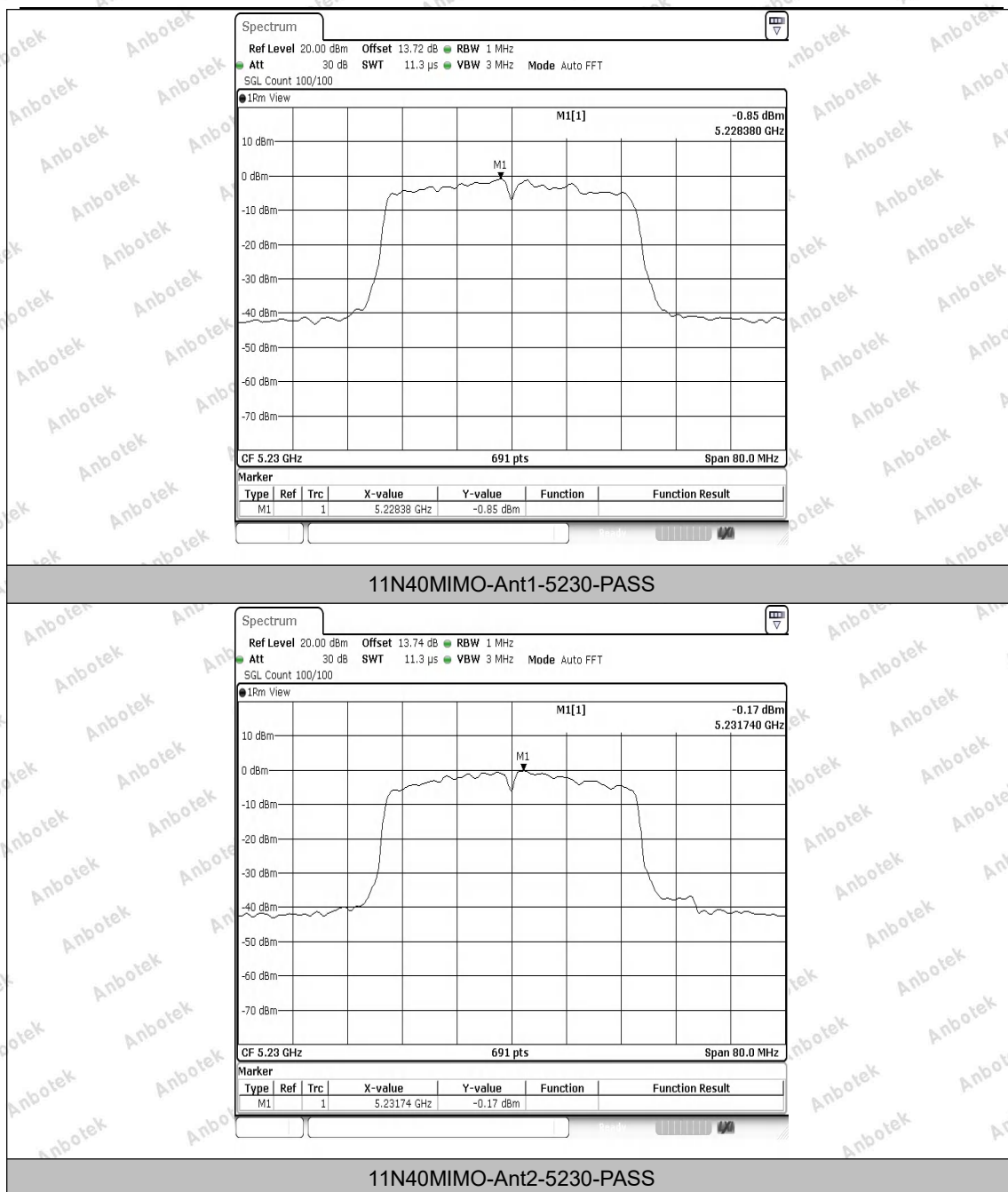


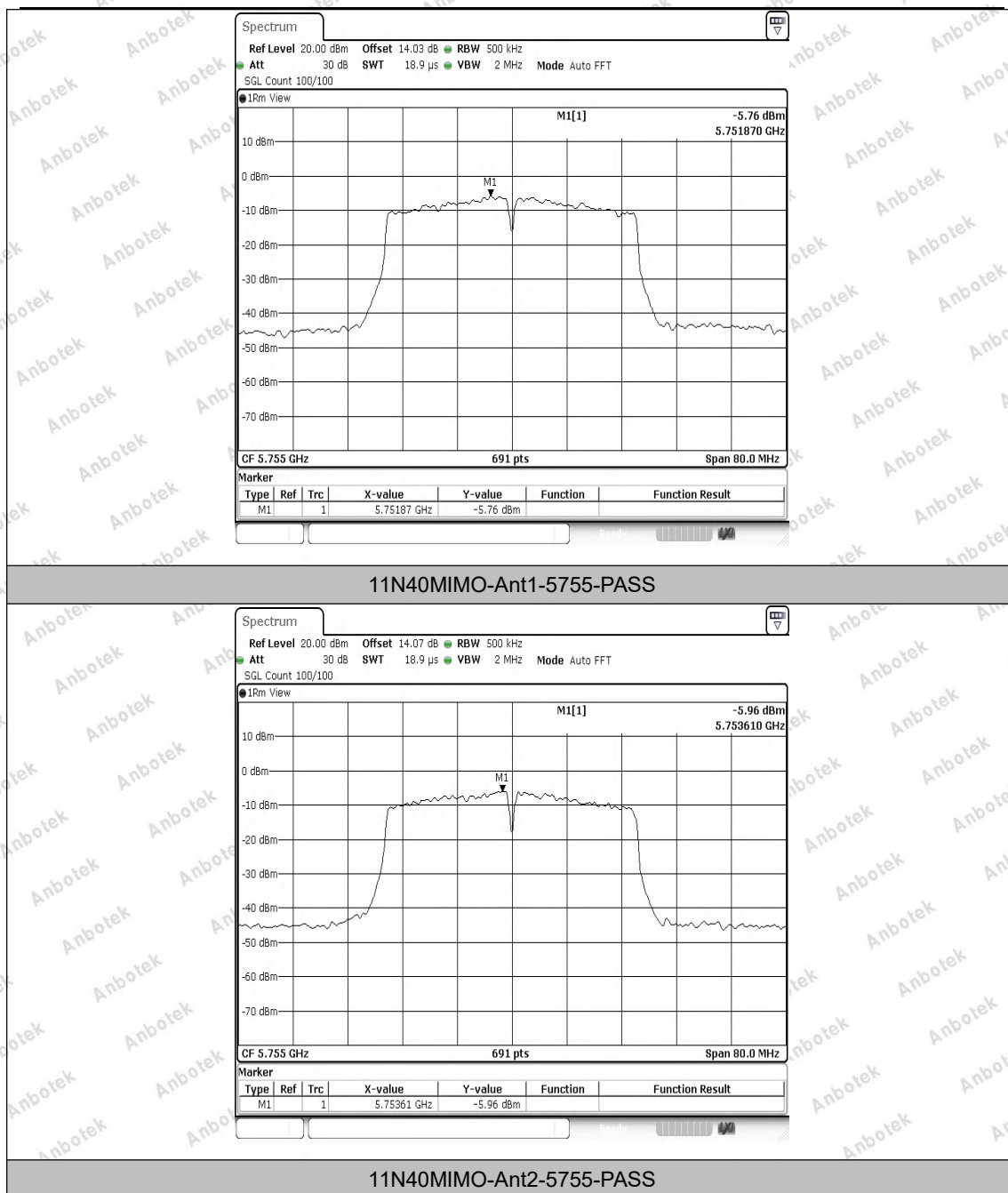
11N20MIMO-Ant2-5785-PASS











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