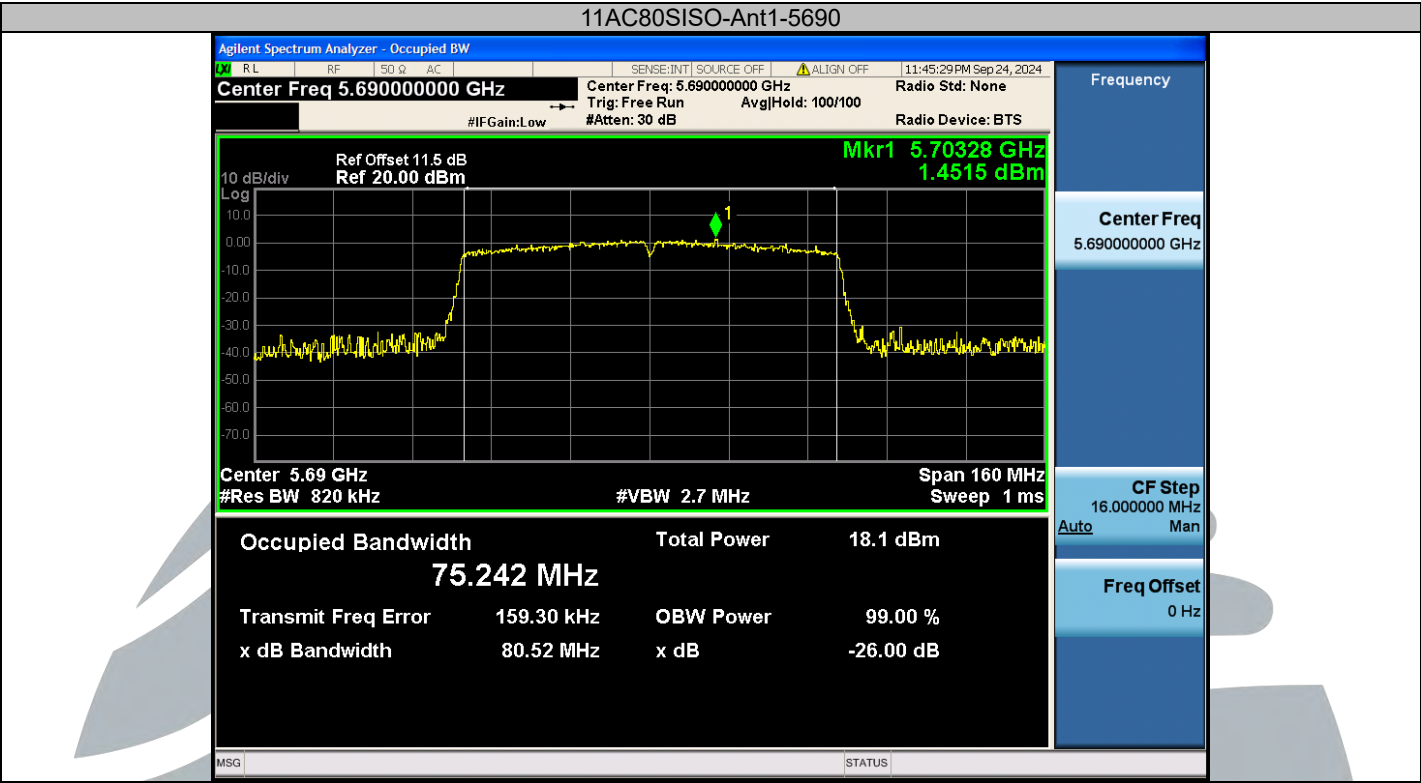




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## A.2 99% OCCUPIED BANDWIDTH

For U-NII-1, U-NII-2A, U-NII-2C band

| Test Mode  | Antenna | Frequency[MHz] | OCB [MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|------------|---------|
| 11A        | Ant1    | 5180           | 16.888    | ---        | ---     |
| 11A        | Ant1    | 5220           | 16.847    | ---        | ---     |
| 11A        | Ant1    | 5240           | 16.975    | ---        | ---     |
| 11A        | Ant1    | 5260           | 16.940    | ---        | ---     |
| 11A        | Ant1    | 5300           | 16.950    | ---        | ---     |
| 11A        | Ant1    | 5320           | 16.967    | ---        | ---     |
| 11A        | Ant1    | 5500           | 16.916    | ---        | ---     |
| 11A        | Ant1    | 5600           | 16.925    | ---        | ---     |
| 11A        | Ant1    | 5700           | 16.970    | ---        | ---     |
| 11A        | Ant1    | 5720           | 16.971    | ---        | ---     |
| 11A        | Ant1    | 5720 UNII-2C   | 13.441    | ---        | ---     |
| 11A        | Ant1    | 5720 UNII-3    | 3.53      | ---        | ---     |
| 11A        | Ant1    | 5745           | 16.891    | ---        | ---     |
| 11A        | Ant1    | 5785           | 16.958    | ---        | ---     |
| 11A        | Ant1    | 5825           | 17.014    | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 17.881    | ---        | ---     |
| 11N20SISO  | Ant1    | 5220           | 17.911    | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 17.911    | ---        | ---     |
| 11N20SISO  | Ant1    | 5260           | 17.891    | ---        | ---     |
| 11N20SISO  | Ant1    | 5300           | 17.917    | ---        | ---     |
| 11N20SISO  | Ant1    | 5320           | 17.988    | ---        | ---     |
| 11N20SISO  | Ant1    | 5500           | 17.946    | ---        | ---     |
| 11N20SISO  | Ant1    | 5600           | 18.024    | ---        | ---     |
| 11N20SISO  | Ant1    | 5700           | 17.948    | ---        | ---     |
| 11N20SISO  | Ant1    | 5720           | 17.954    | ---        | ---     |
| 11N20SISO  | Ant1    | 5720 UNII-2C   | 13.952    | ---        | ---     |
| 11N20SISO  | Ant1    | 5720 UNII-3    | 4.002     | ---        | ---     |
| 11N20SISO  | Ant1    | 5745           | 17.950    | ---        | ---     |
| 11N20SISO  | Ant1    | 5785           | 17.978    | ---        | ---     |
| 11N20SISO  | Ant1    | 5825           | 17.974    | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.496    | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 36.484    | ---        | ---     |
| 11N40SISO  | Ant1    | 5270           | 36.394    | ---        | ---     |
| 11N40SISO  | Ant1    | 5310           | 36.477    | ---        | ---     |
| 11N40SISO  | Ant1    | 5510           | 36.188    | ---        | ---     |
| 11N40SISO  | Ant1    | 5590           | 36.295    | ---        | ---     |
| 11N40SISO  | Ant1    | 5670           | 36.241    | ---        | ---     |
| 11N40SISO  | Ant1    | 5710           | 36.235    | ---        | ---     |
| 11N40SISO  | Ant1    | 5710 UNII-2C   | 33.039    | ---        | ---     |
| 11N40SISO  | Ant1    | 5710 UNII-3    | 3.196     | ---        | ---     |
| 11N40SISO  | Ant1    | 5755           | 36.549    | ---        | ---     |
| 11N40SISO  | Ant1    | 5795           | 36.522    | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 17.862    | ---        | ---     |
| 11AC20SISO | Ant1    | 5220           | 17.889    | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 17.833    | ---        | ---     |
| 11AC20SISO | Ant1    | 5260           | 17.828    | ---        | ---     |
| 11AC20SISO | Ant1    | 5300           | 17.842    | ---        | ---     |
| 11AC20SISO | Ant1    | 5320           | 17.848    | ---        | ---     |
| 11AC20SISO | Ant1    | 5500           | 17.933    | ---        | ---     |
| 11AC20SISO | Ant1    | 5600           | 17.879    | ---        | ---     |
| 11AC20SISO | Ant1    | 5700           | 17.886    | ---        | ---     |
| 11AC20SISO | Ant1    | 5720           | 17.922    | ---        | ---     |
| 11AC20SISO | Ant1    | 5720 UNII-2C   | 13.92     | ---        | ---     |
| 11AC20SISO | Ant1    | 5720 UNII-3    | 4.002     | ---        | ---     |
| 11AC20SISO | Ant1    | 5745           | 17.901    | ---        | ---     |
| 11AC20SISO | Ant1    | 5785           | 17.900    | ---        | ---     |
| 11AC20SISO | Ant1    | 5825           | 18.040    | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 36.182    | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 36.243    | ---        | ---     |

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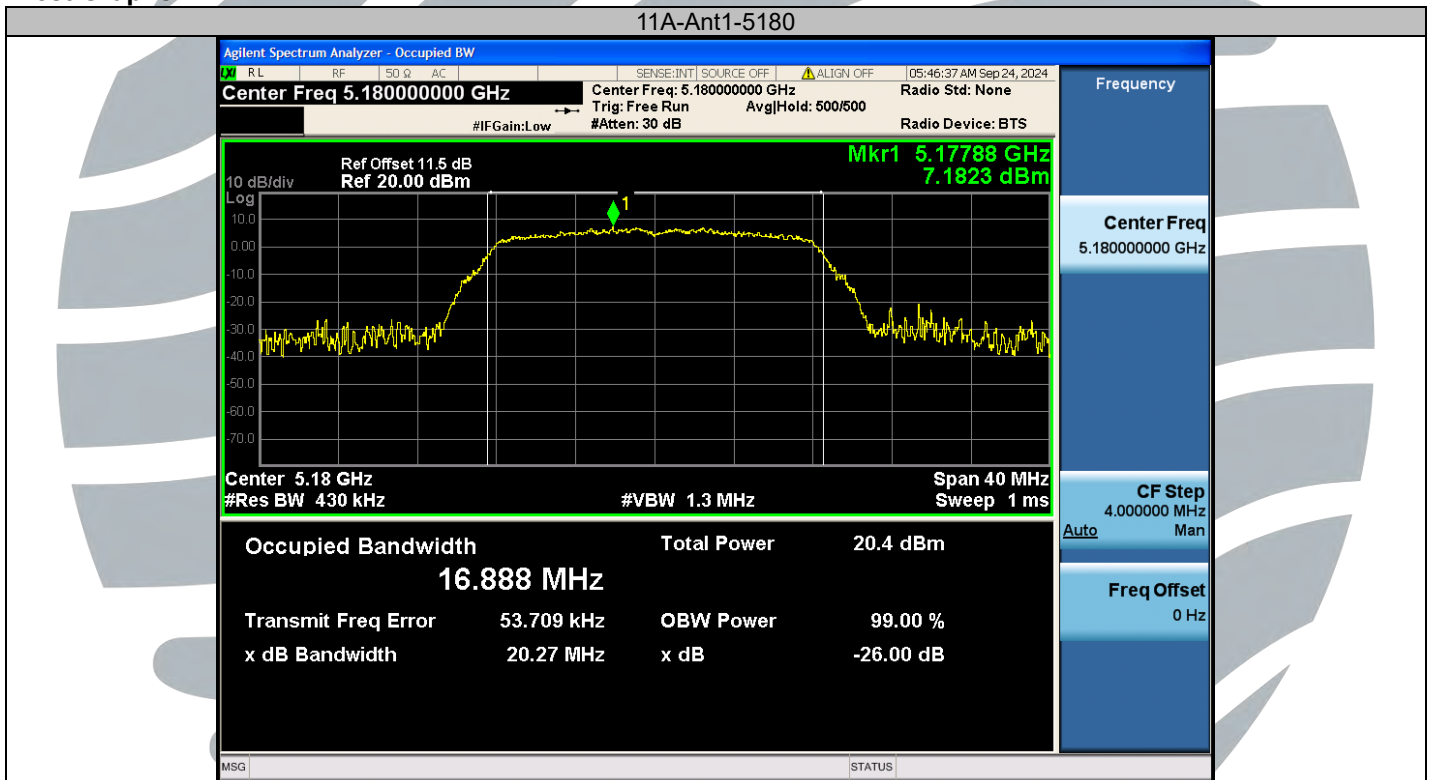
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|            |      |              |        |     |     |
|------------|------|--------------|--------|-----|-----|
| 11AC40SISO | Ant1 | 5270         | 36.329 | --- | --- |
| 11AC40SISO | Ant1 | 5310         | 36.234 | --- | --- |
| 11AC40SISO | Ant1 | 5510         | 36.208 | --- | --- |
| 11AC40SISO | Ant1 | 5590         | 36.259 | --- | --- |
| 11AC40SISO | Ant1 | 5670         | 36.244 | --- | --- |
| 11AC40SISO | Ant1 | 5710         | 36.165 | --- | --- |
| 11AC40SISO | Ant1 | 5710 UNII-2C | 33.025 | --- | --- |
| 11AC40SISO | Ant1 | 5710 UNII-3  | 3.14   | --- | --- |
| 11AC40SISO | Ant1 | 5755         | 36.253 | --- | --- |
| 11AC40SISO | Ant1 | 5795         | 36.376 | --- | --- |
| 11AC80SISO | Ant1 | 5210         | 75.278 | --- | --- |
| 11AC80SISO | Ant1 | 5290         | 75.271 | --- | --- |
| 11AC80SISO | Ant1 | 5530         | 75.201 | --- | --- |
| 11AC80SISO | Ant1 | 5610         | 75.333 | --- | --- |
| 11AC80SISO | Ant1 | 5690         | 75.412 | --- | --- |
| 11AC80SISO | Ant1 | 5690 UNII-2C | 72.572 | --- | --- |
| 11AC80SISO | Ant1 | 5690 UNII-3  | 2.84   | --- | --- |
| 11AC80SISO | Ant1 | 5775         | 75.449 | --- | --- |

## Test Graphs



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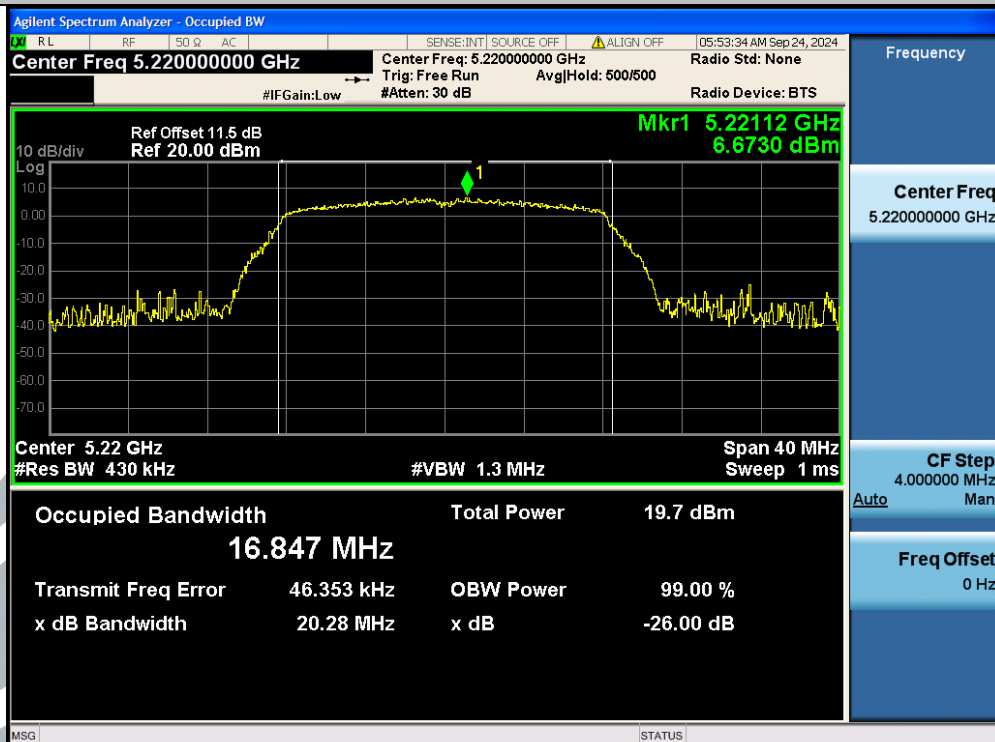
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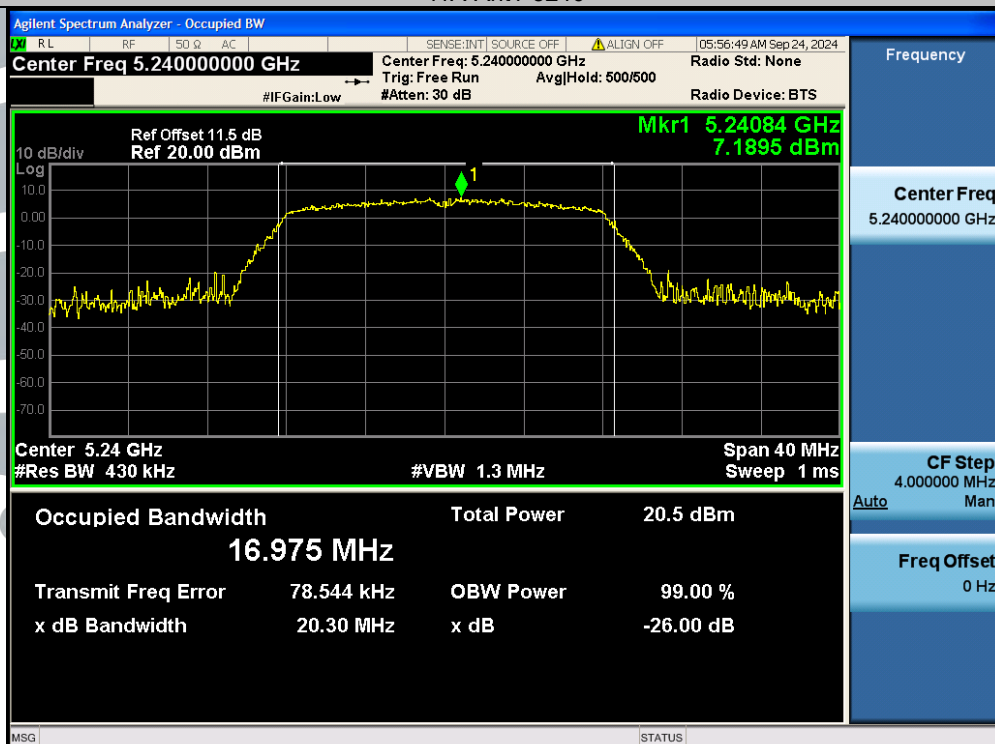
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11A-Ant1-5220



11A-Ant1-5240

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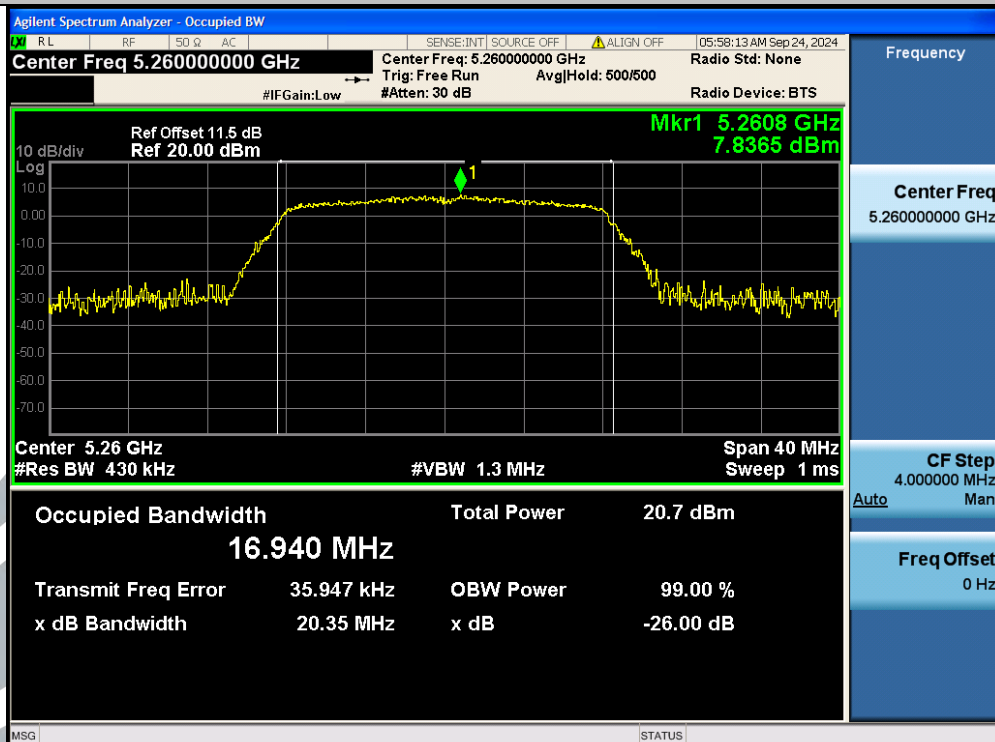
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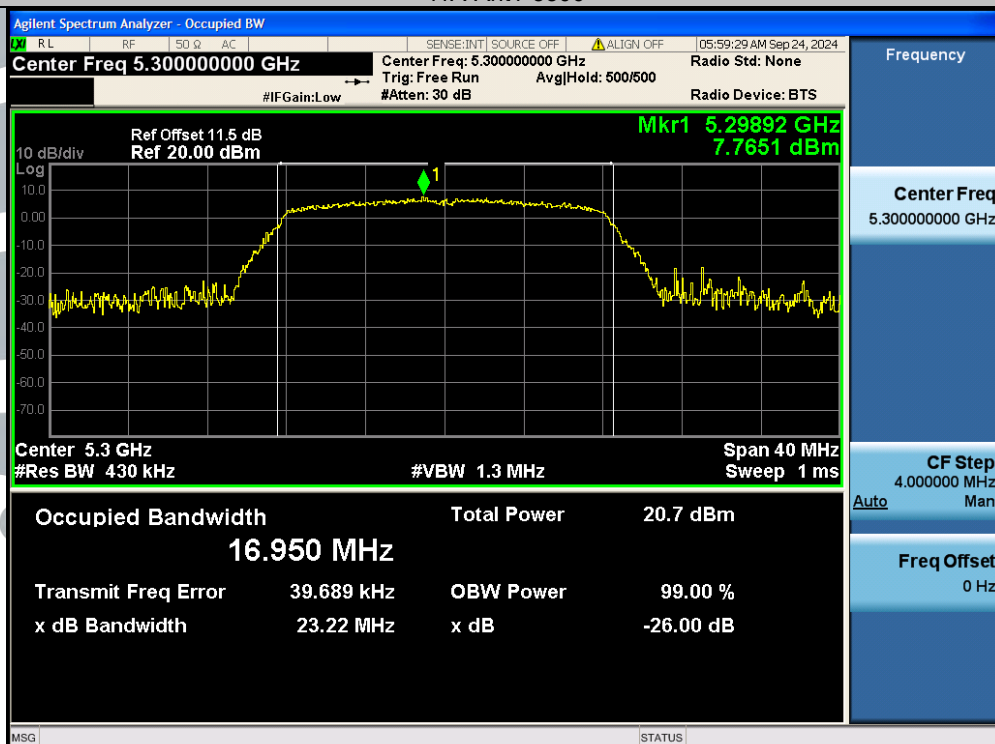
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11A-Ant1-5260



11A-Ant1-5300

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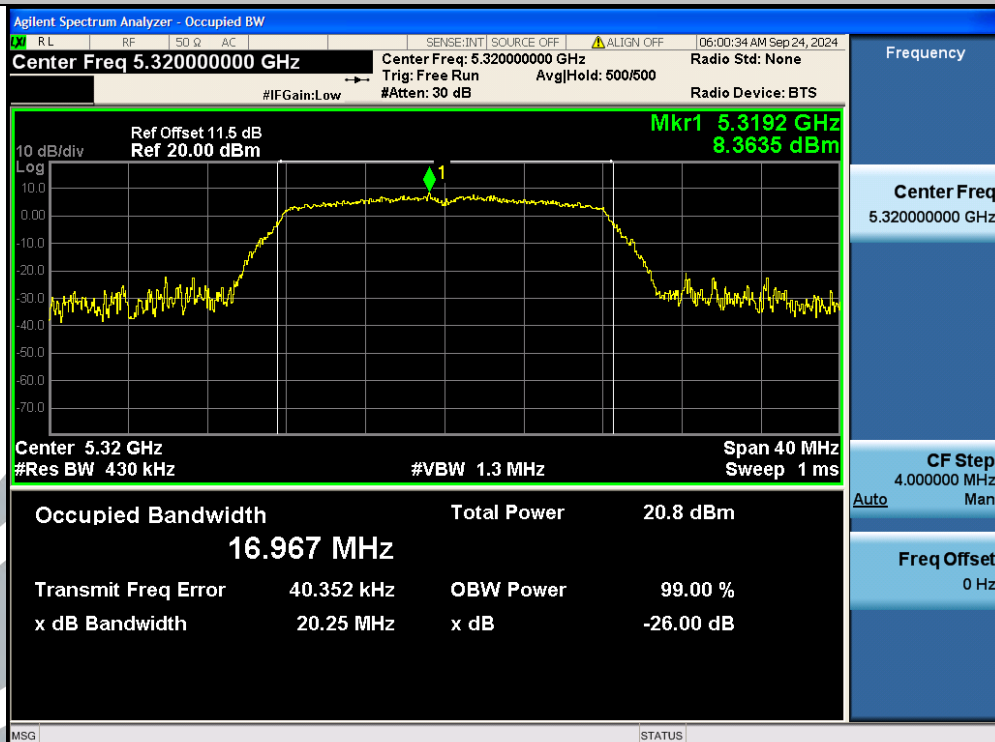
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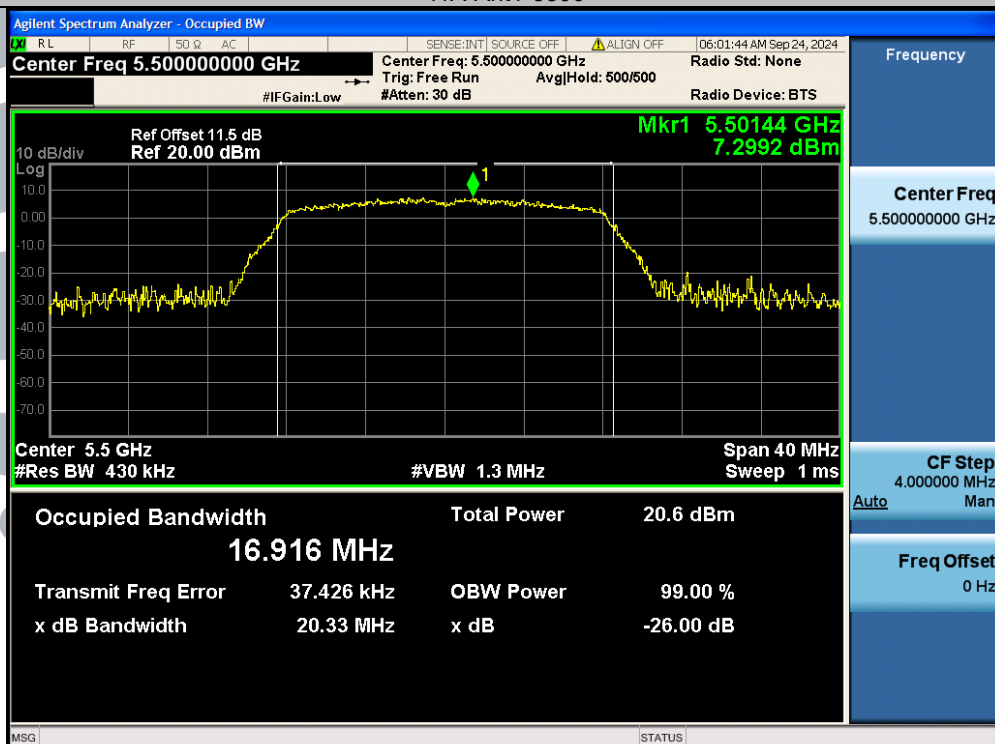
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11A-Ant1-5320



11A-Ant1-5500

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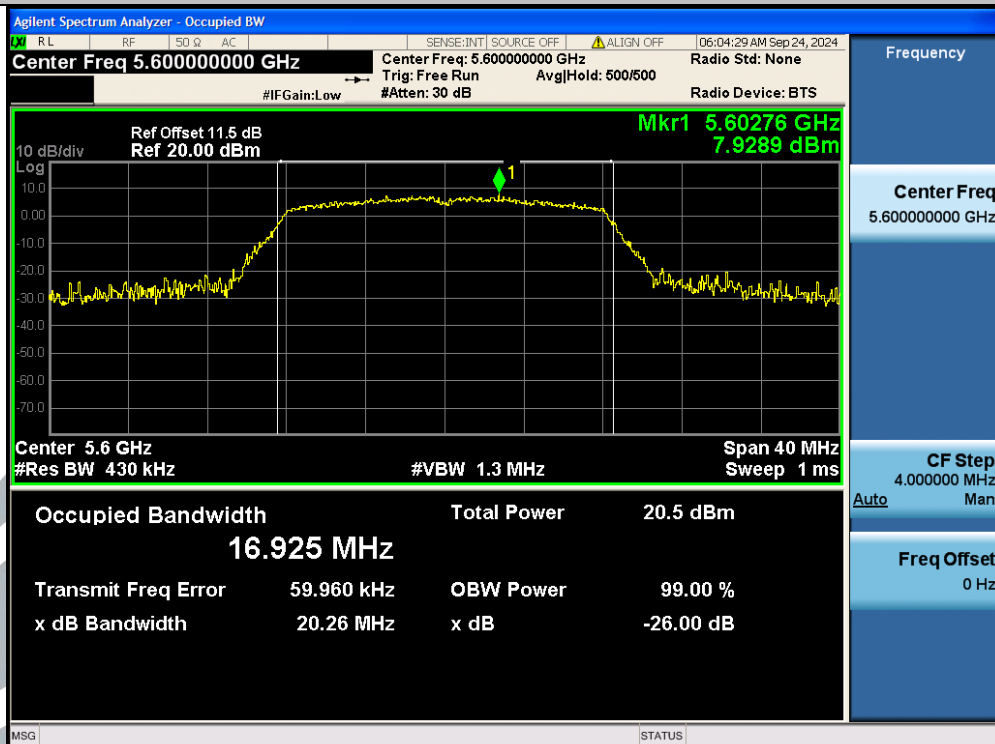
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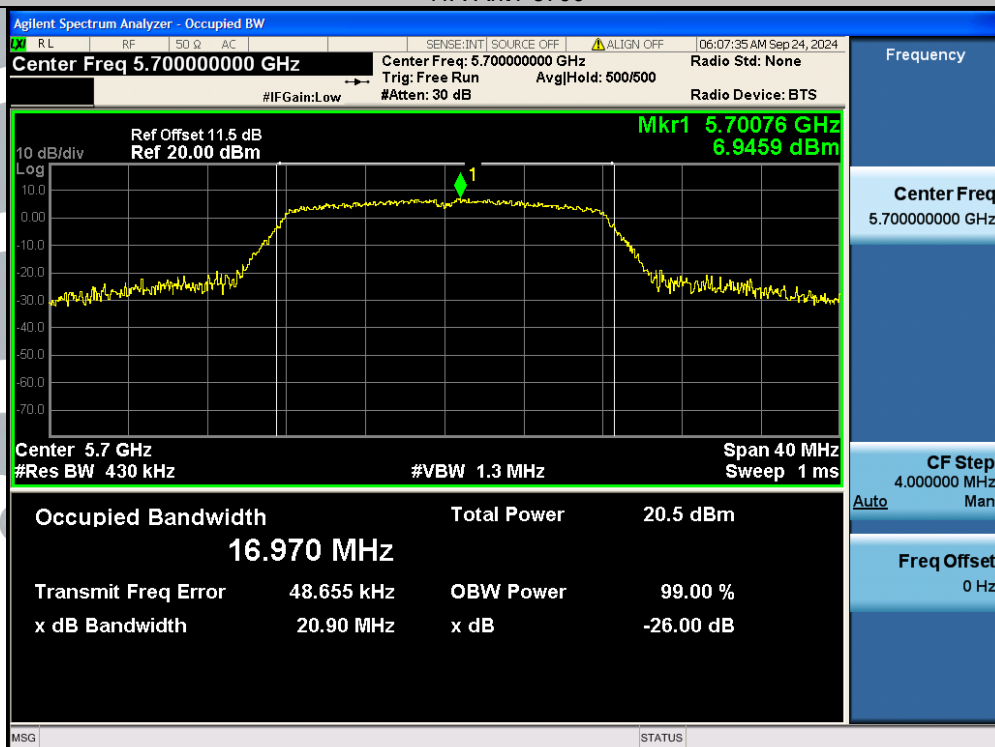
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## 11A-Ant1-5600



## 11A-Ant1-5700

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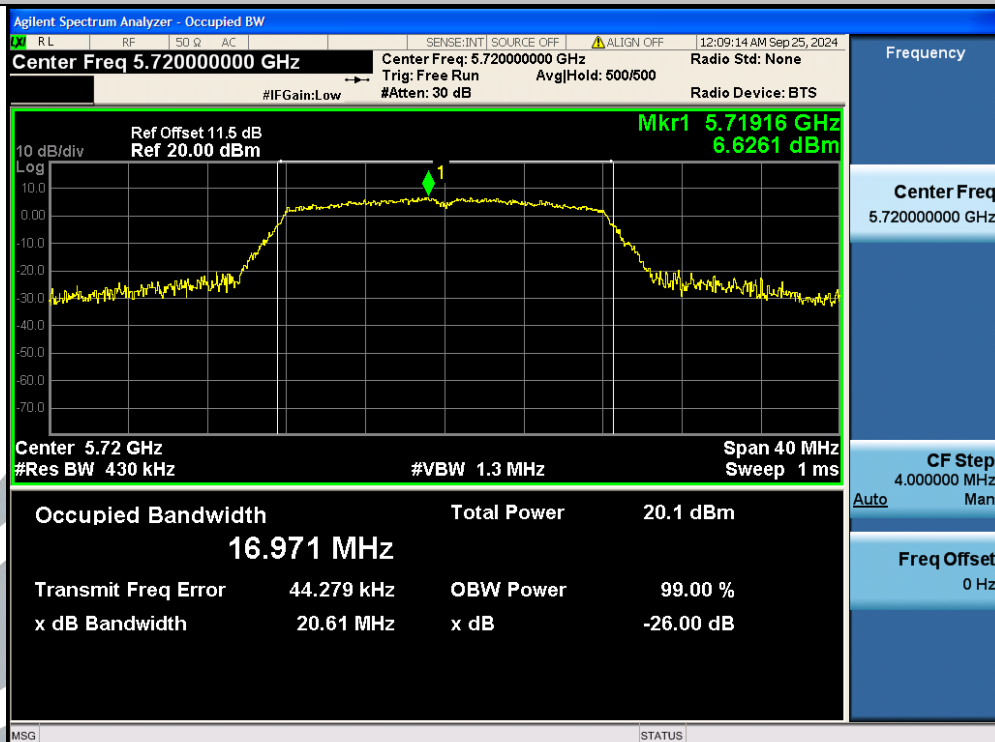
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Fax: +86-755-28230886

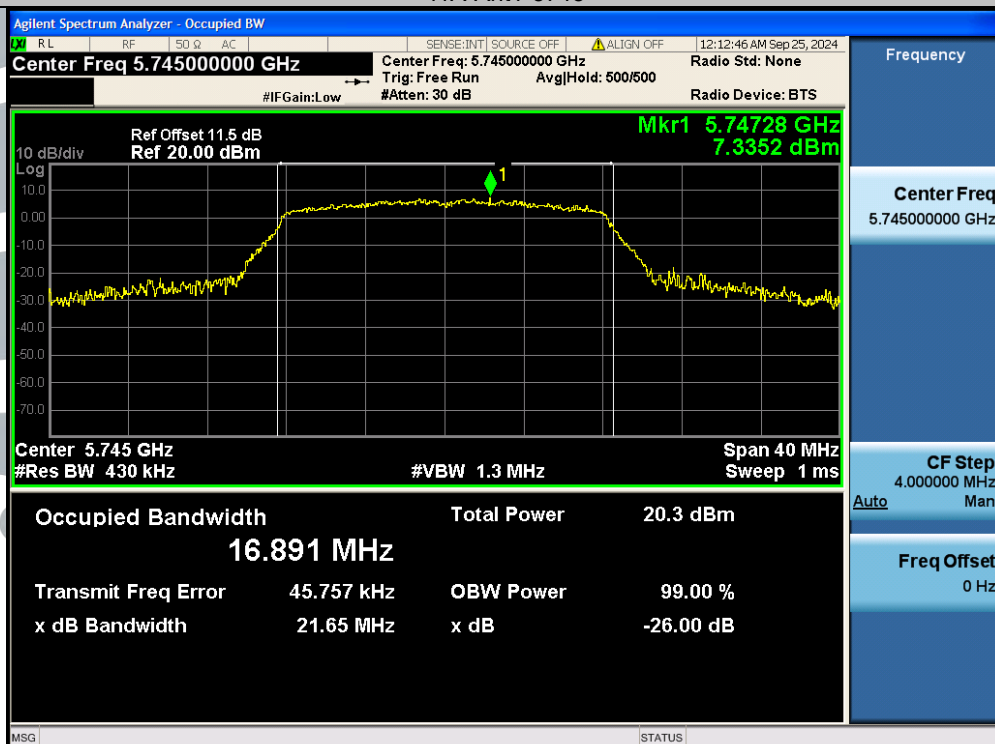
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11A-Ant1-5720



11A-Ant1-5745

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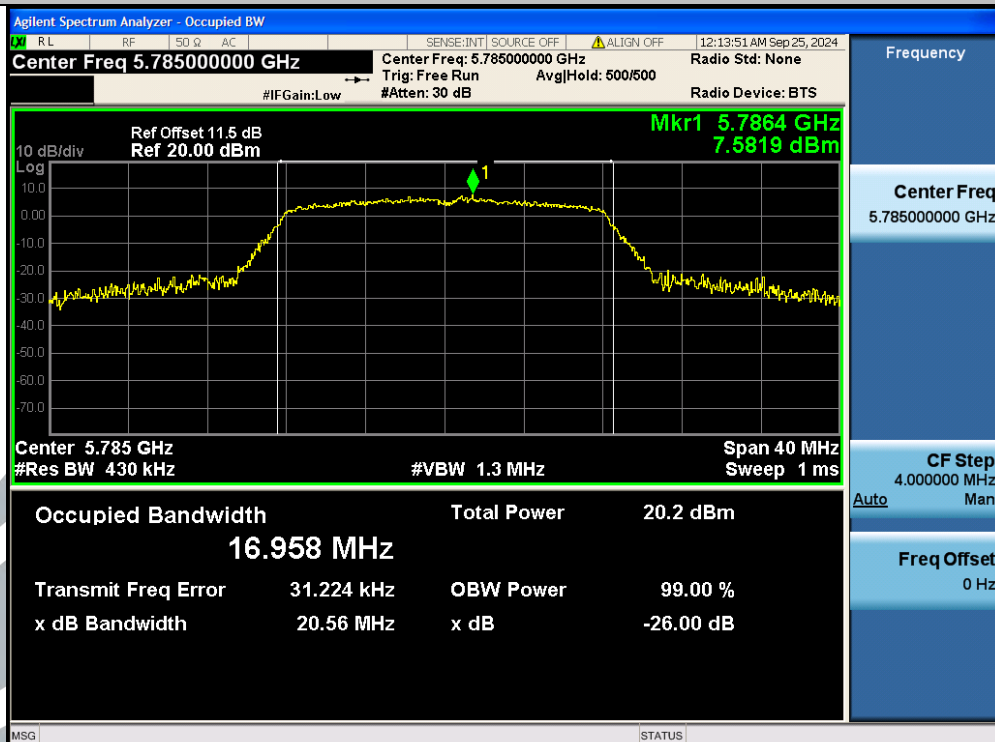
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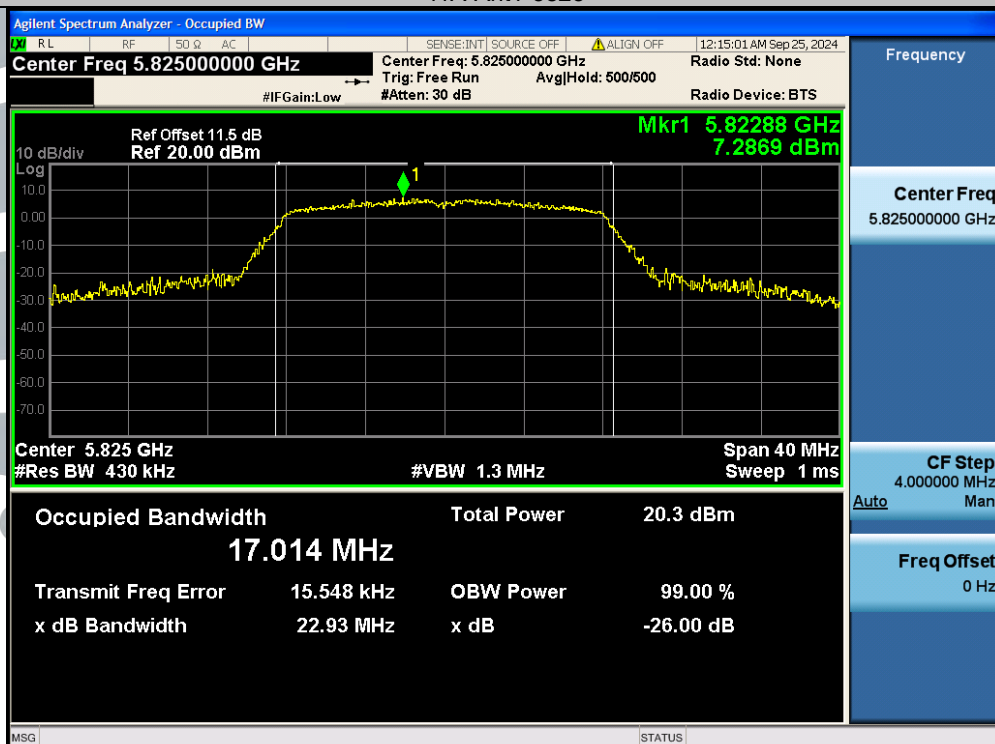
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11A-Ant1-5785



11A-Ant1-5825

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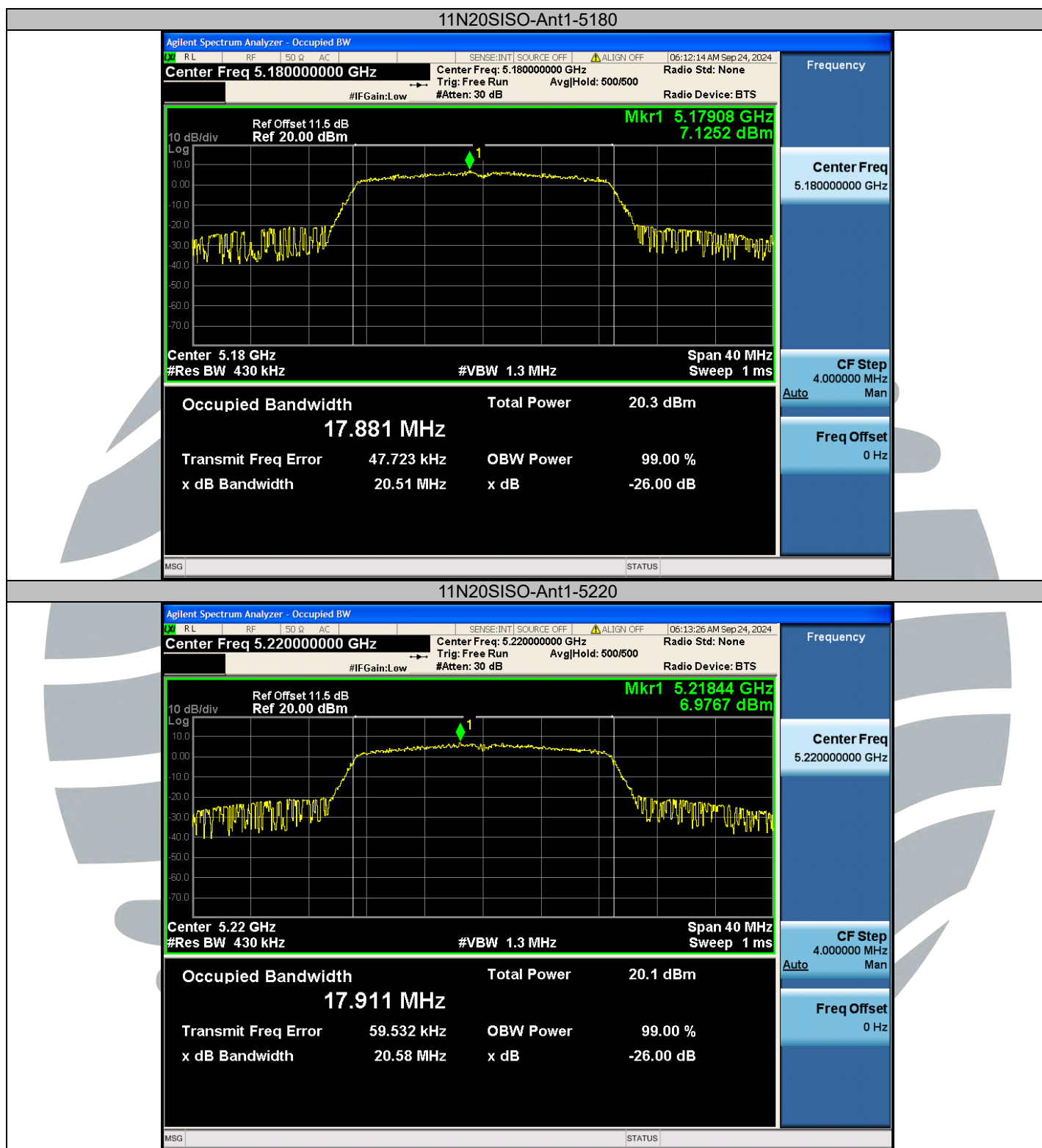
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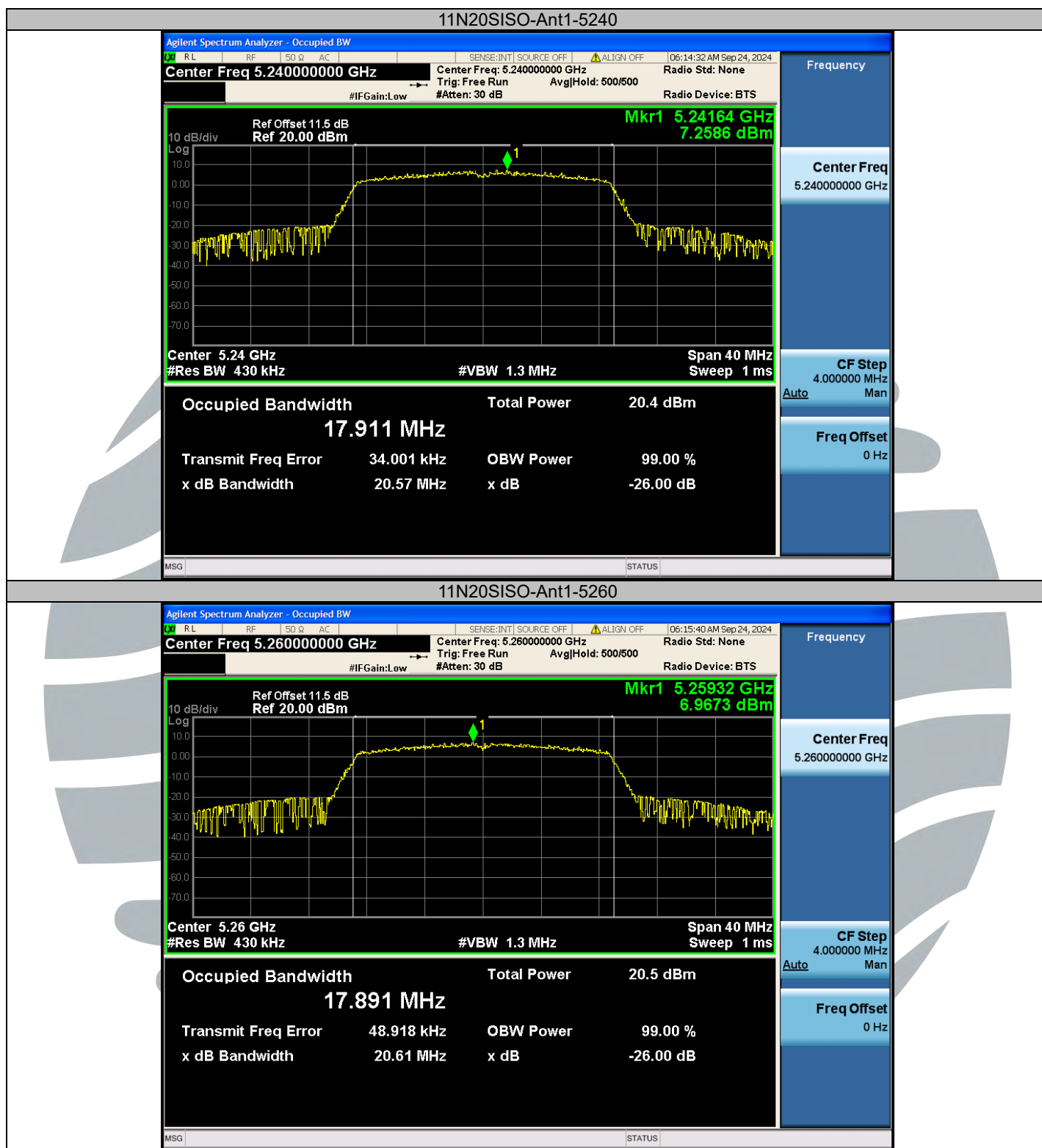
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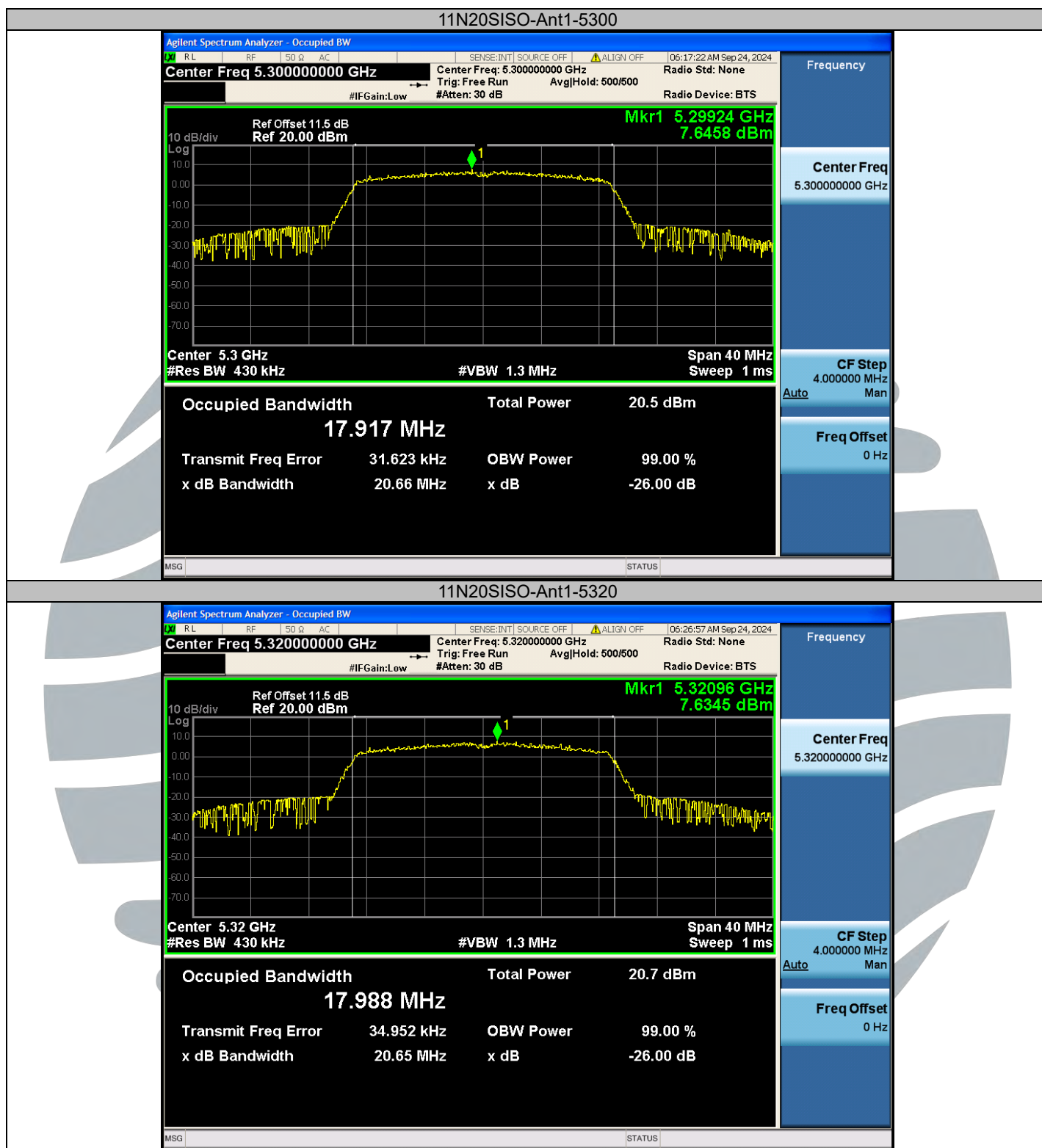
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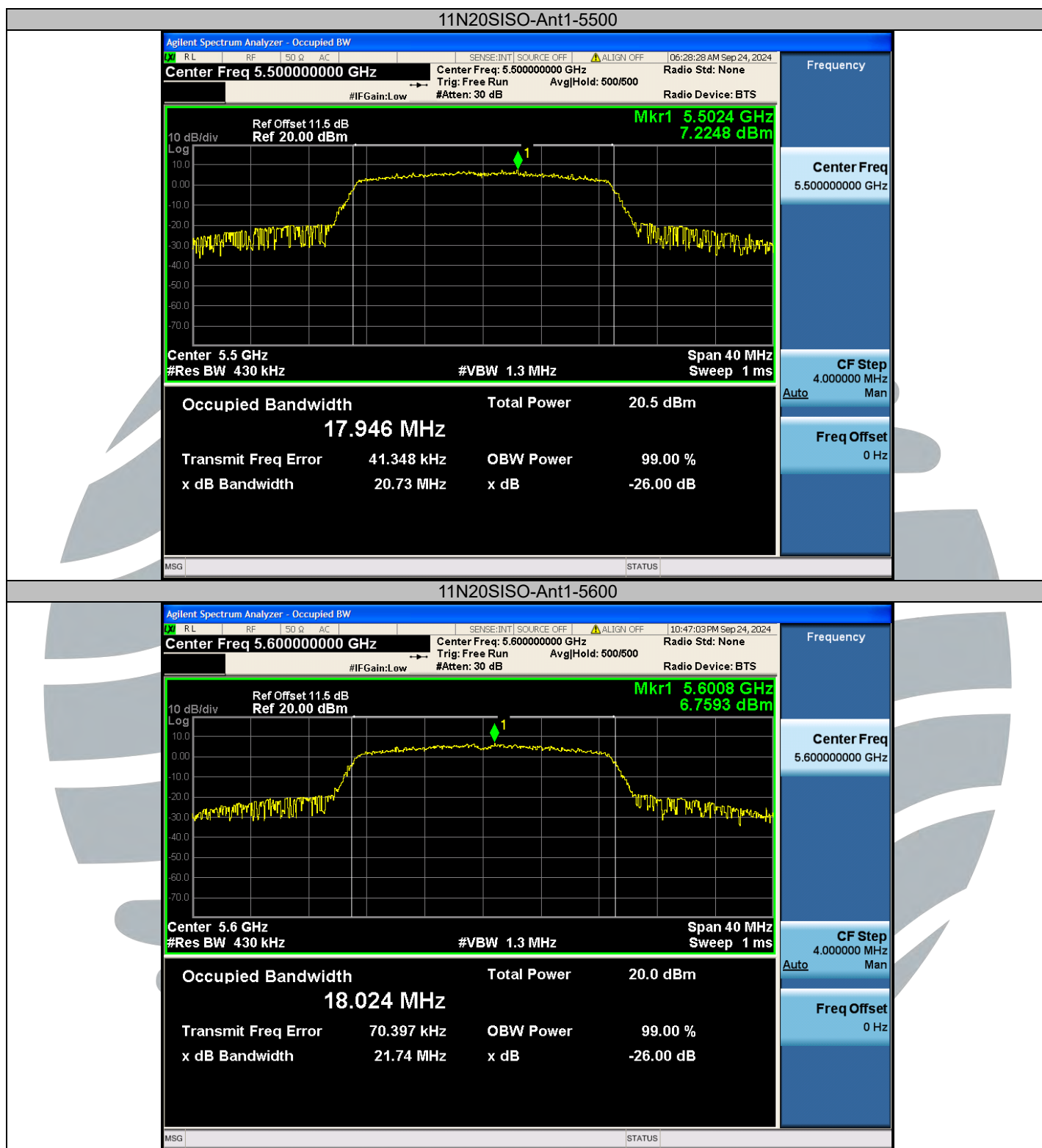
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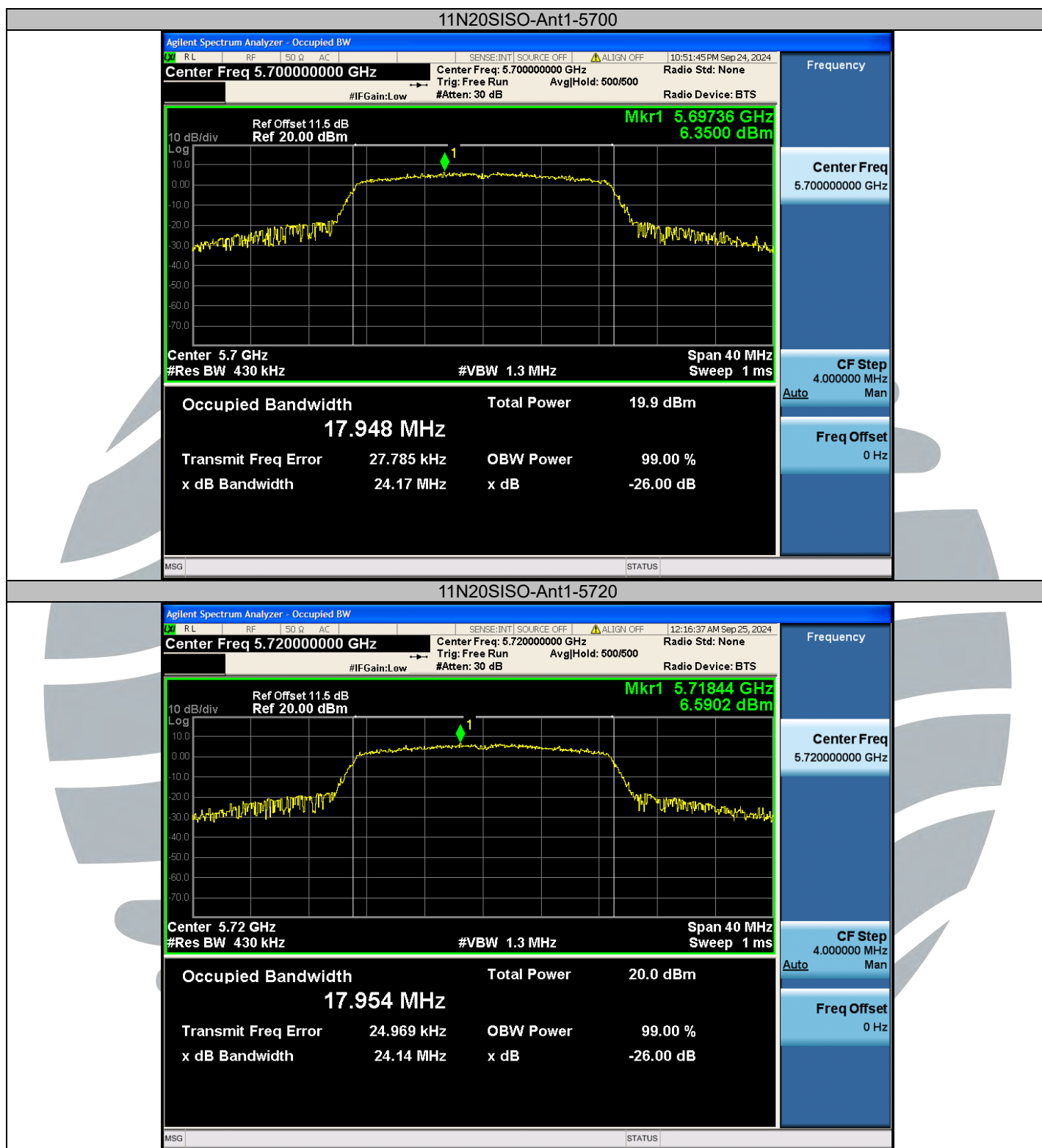
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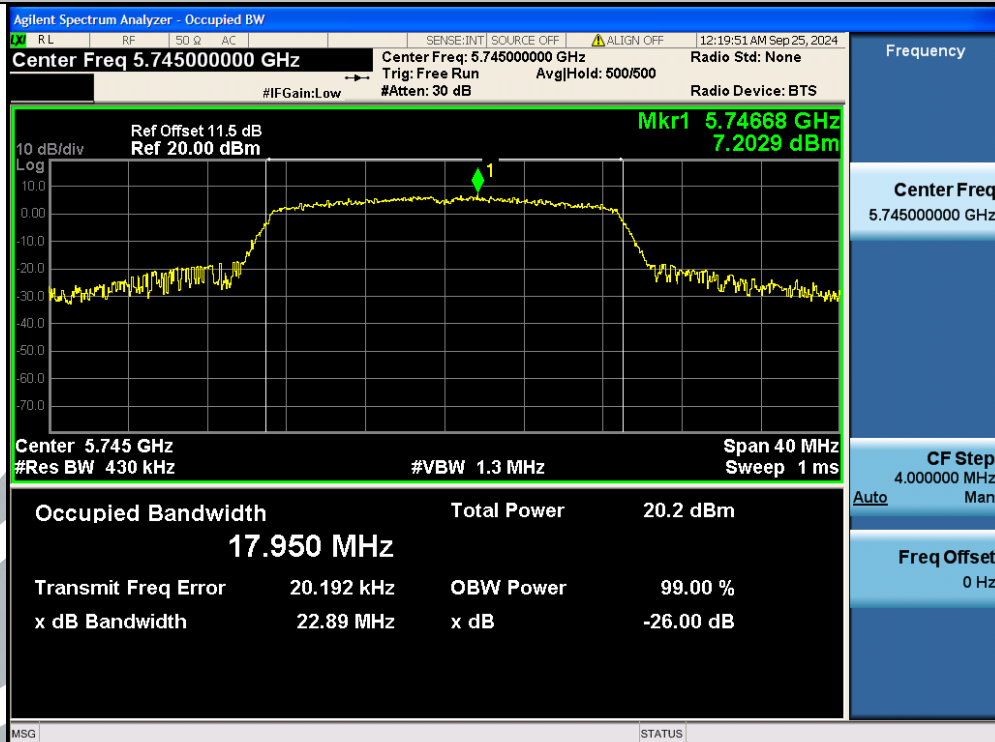
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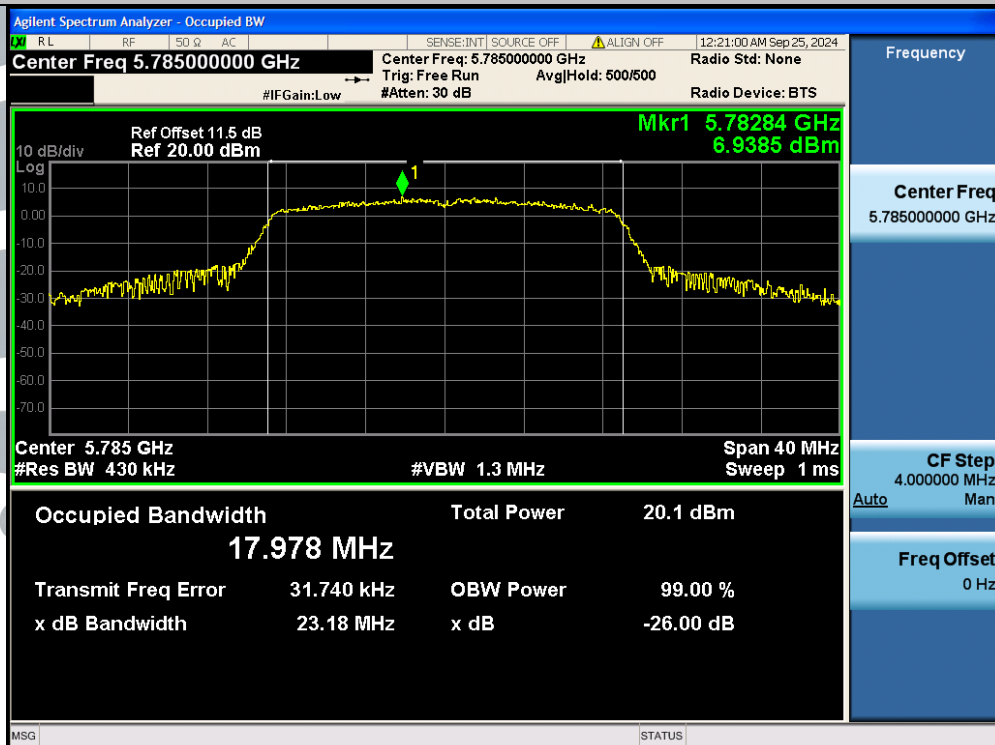
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## 11N20SISO-Ant1-5745



## 11N20SISO-Ant1-5785

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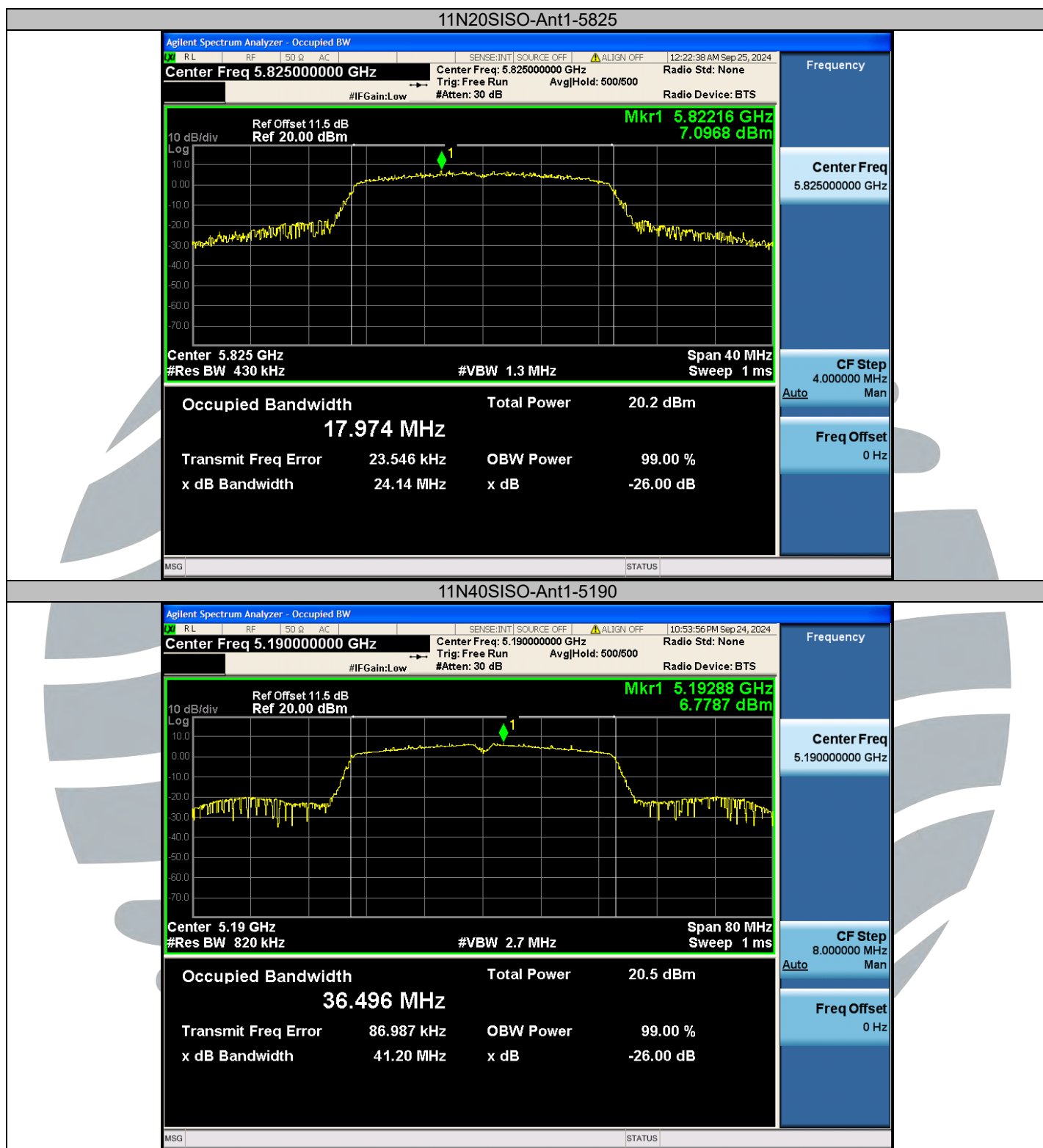
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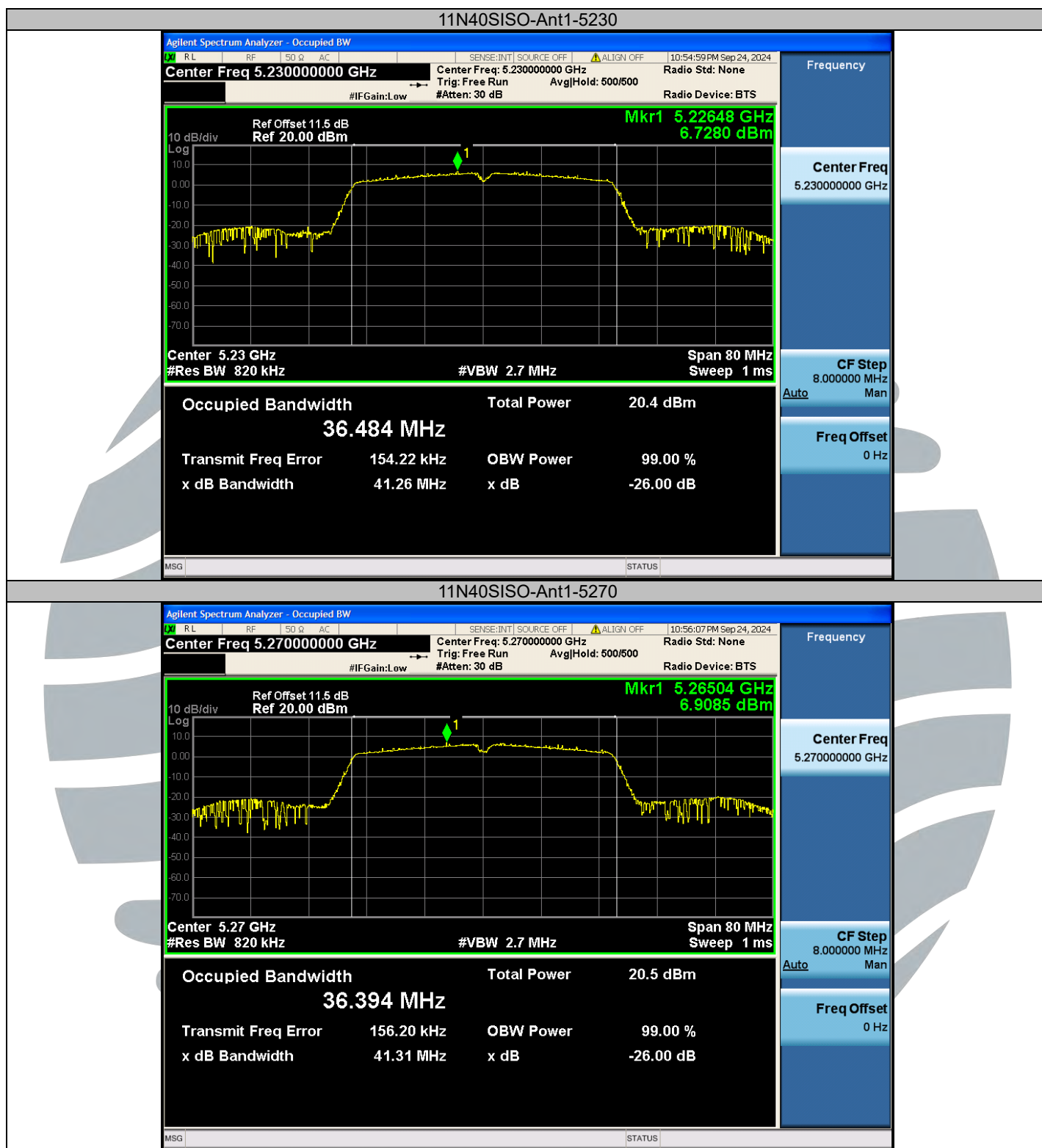
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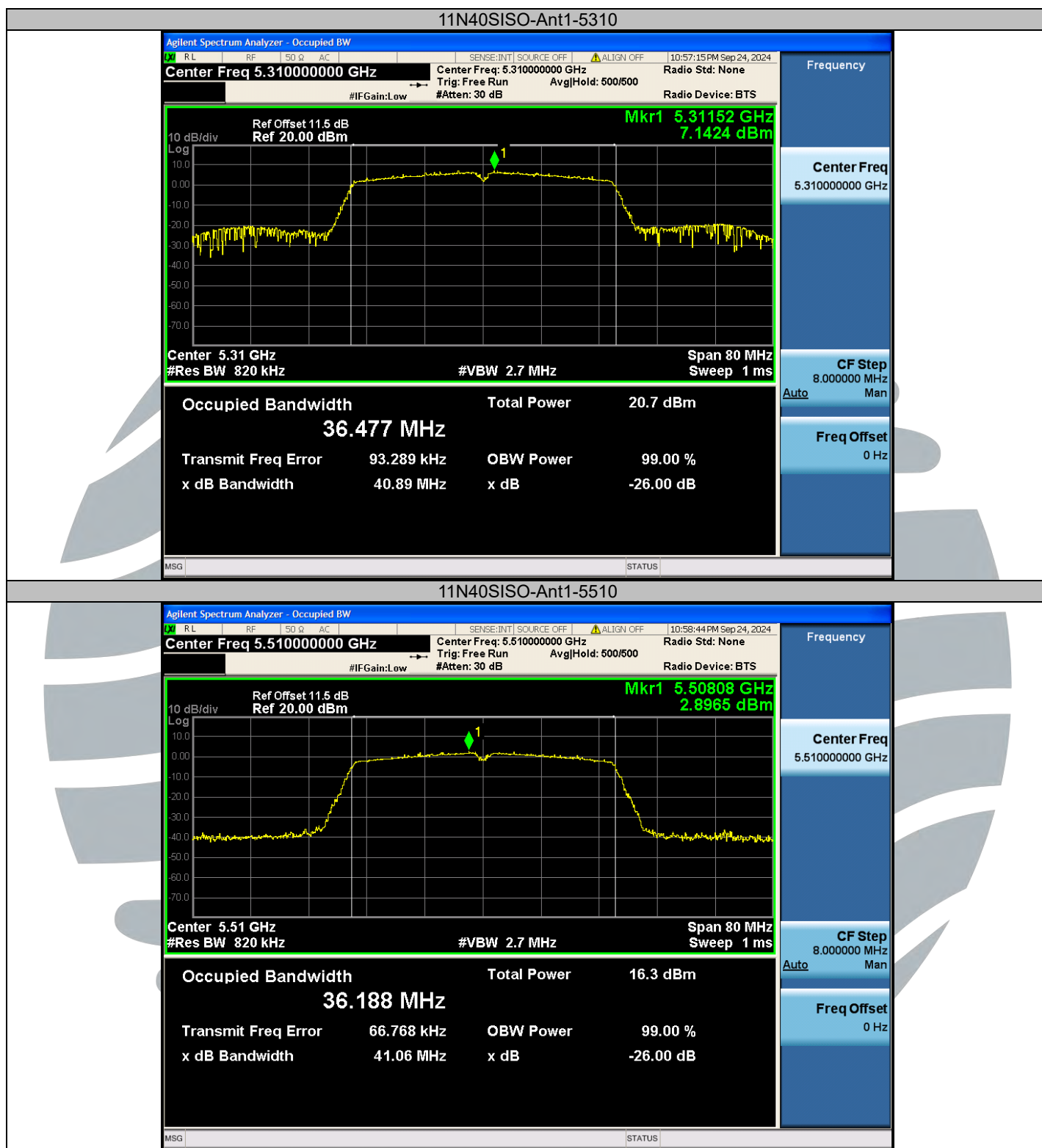
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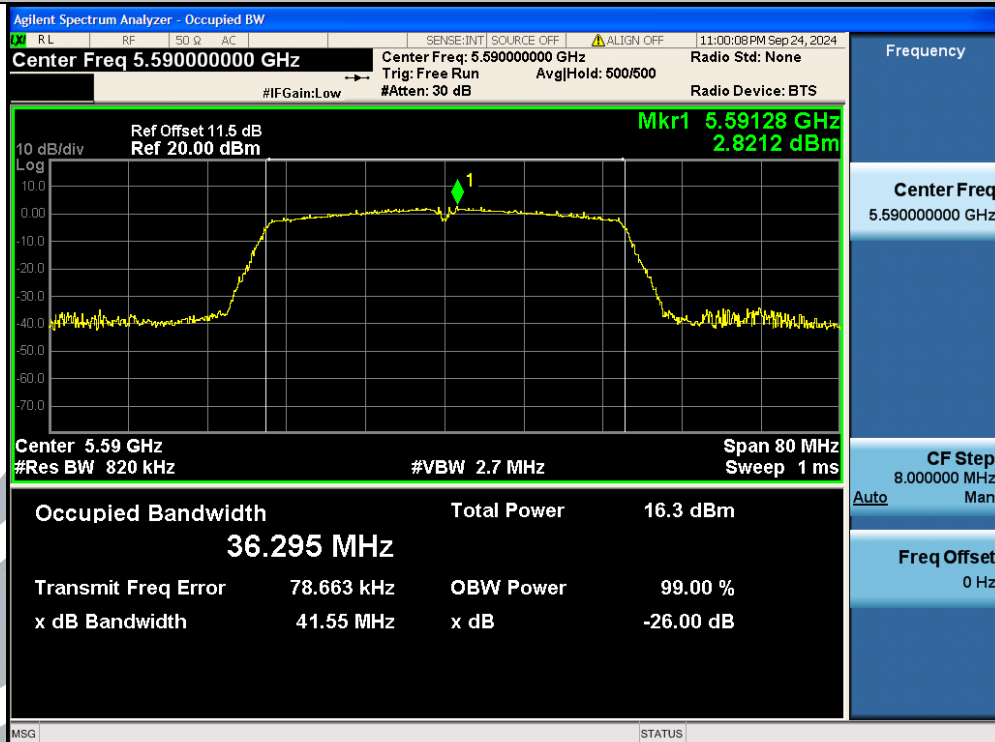
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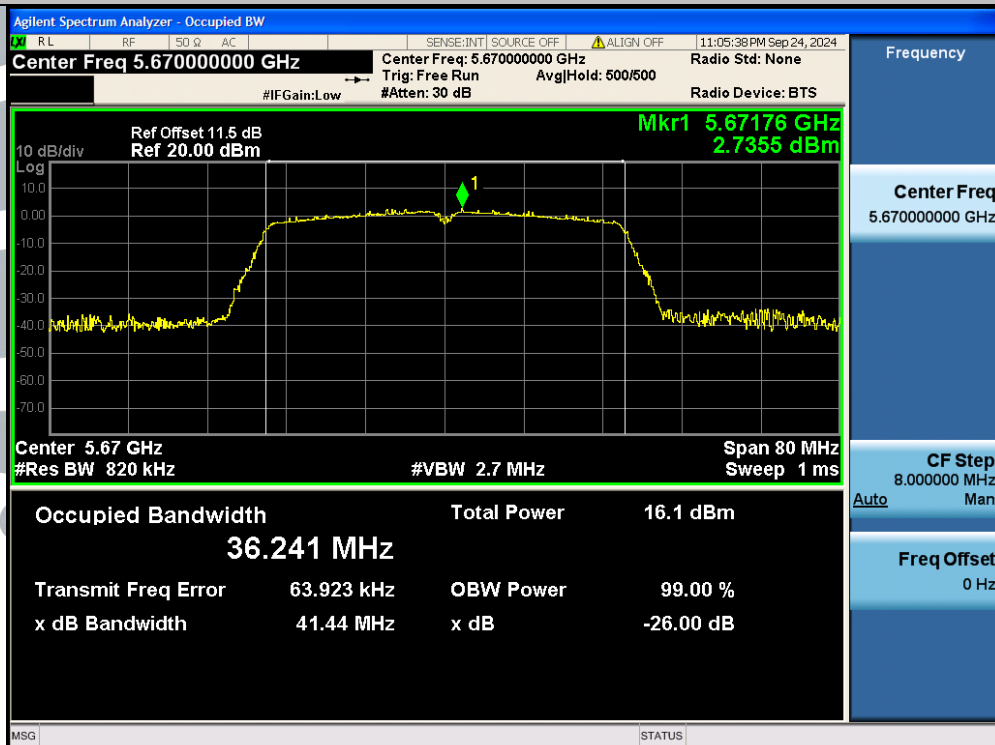
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## 11N40SISO-Ant1-5590



## 11N40SISO-Ant1-5670



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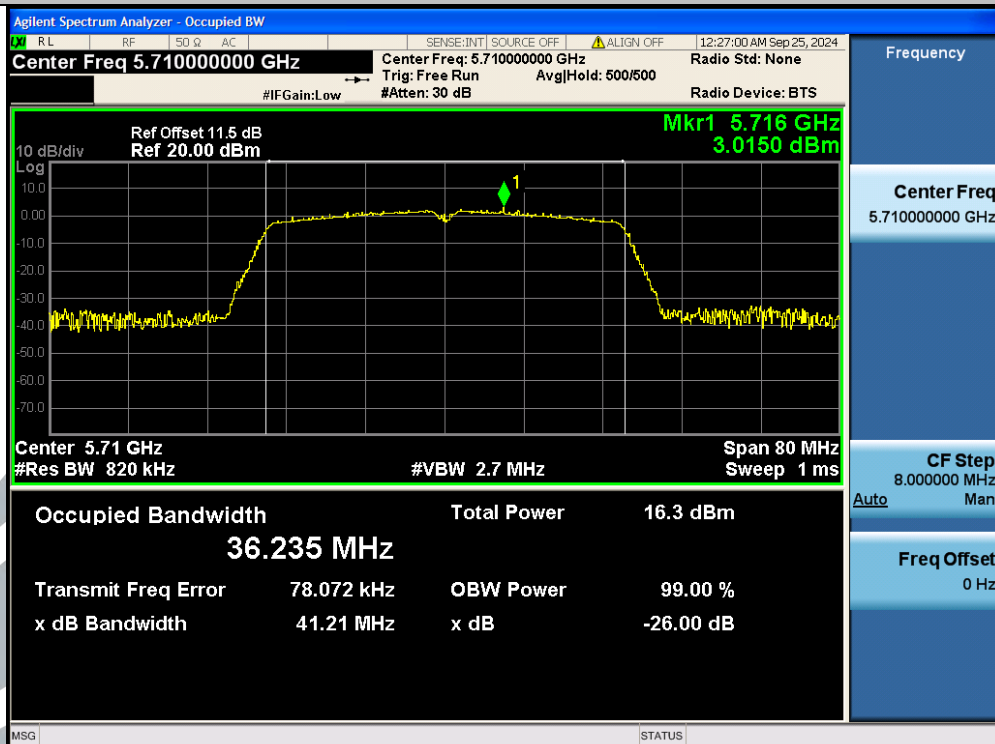
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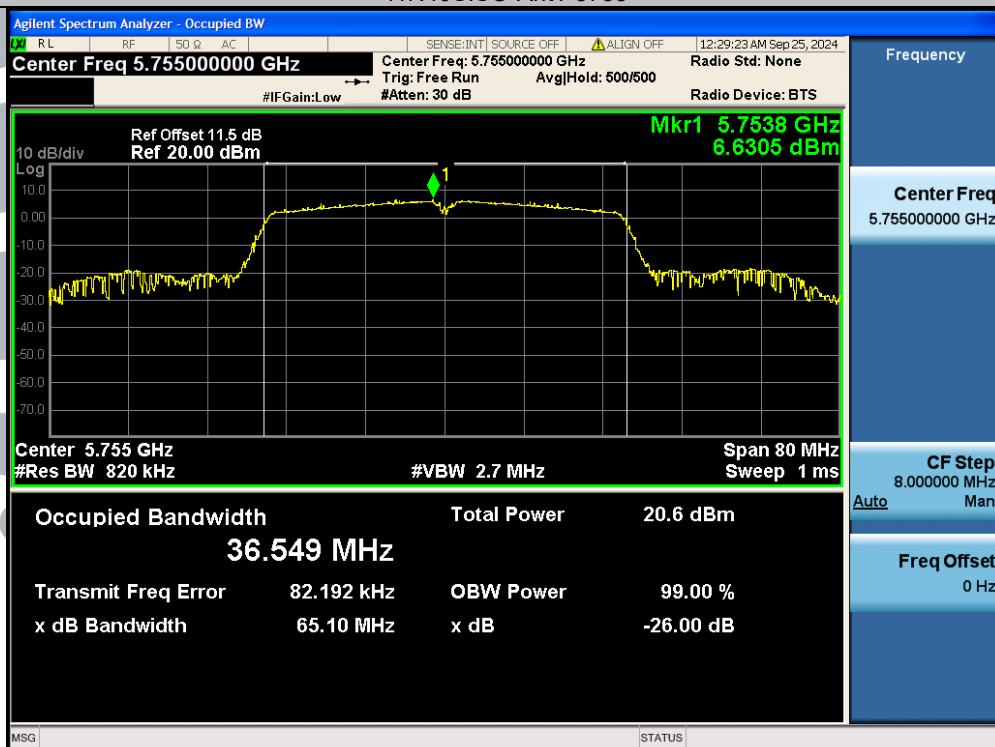
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## 11N40SISO-Ant1-5710



## 11N40SISO-Ant1-5755



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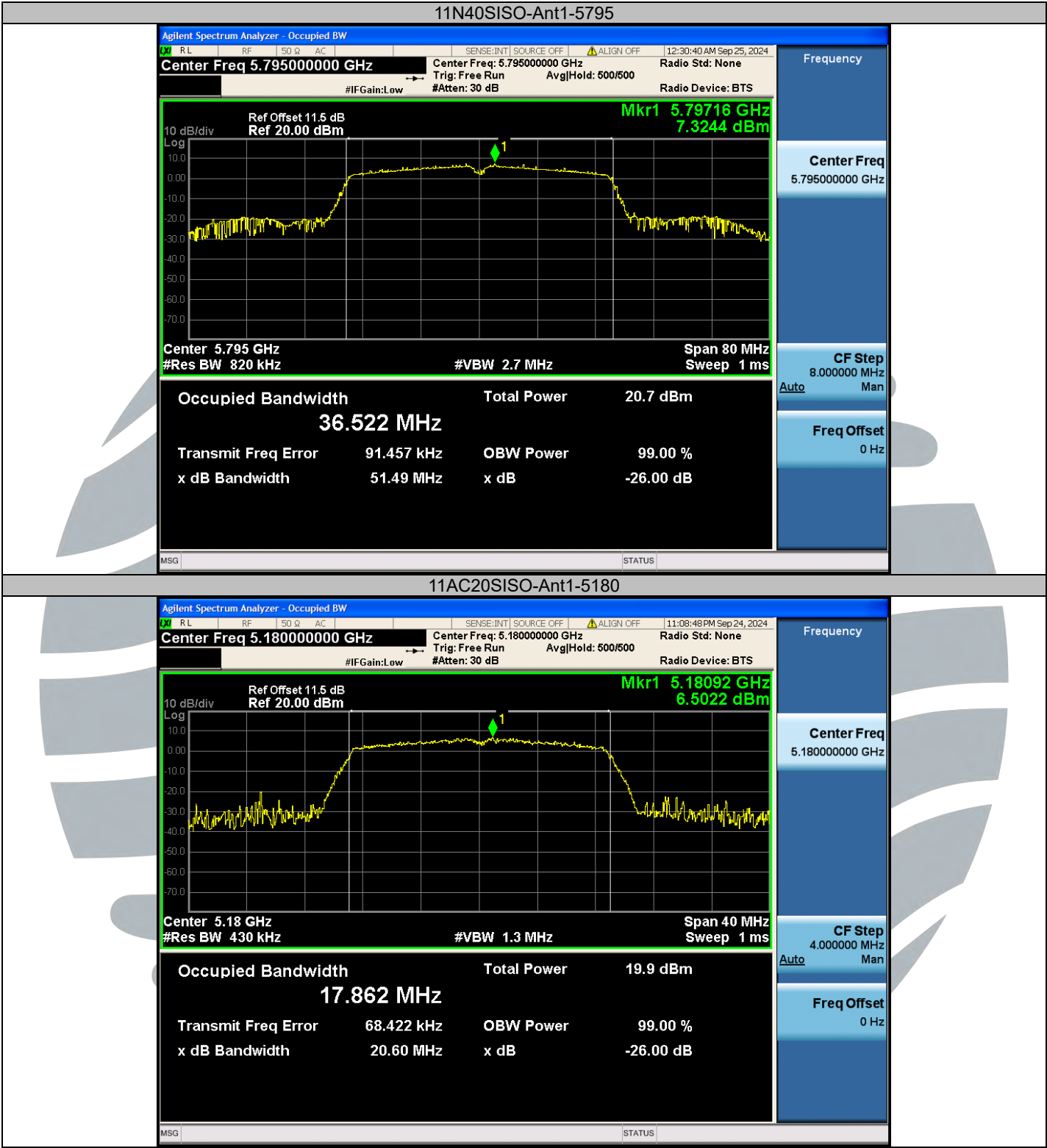
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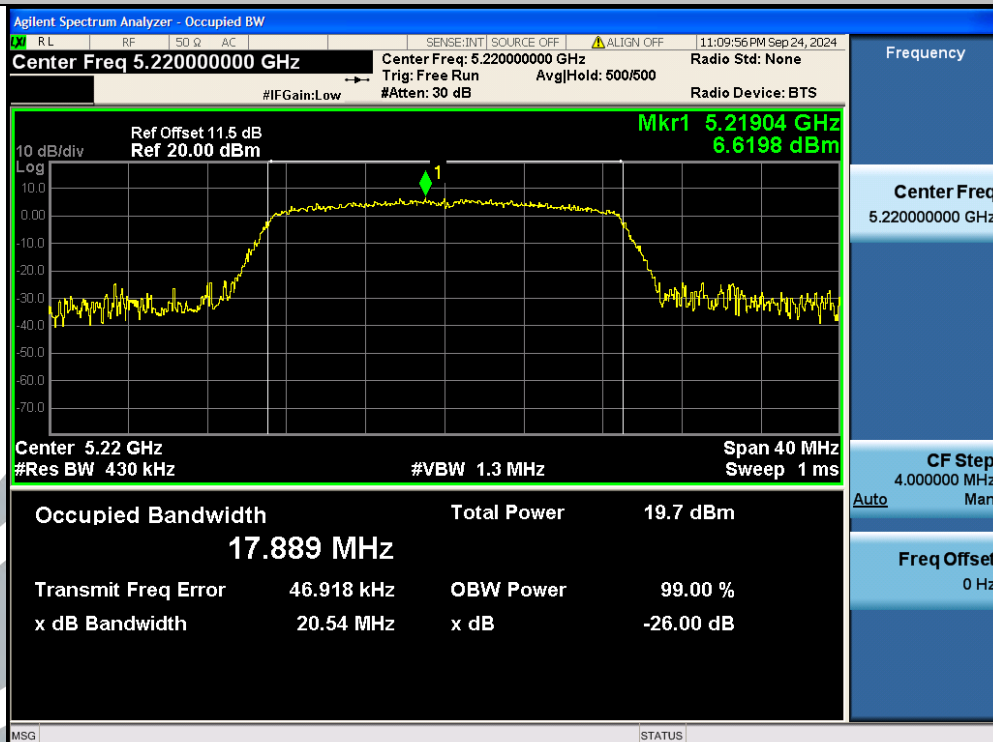
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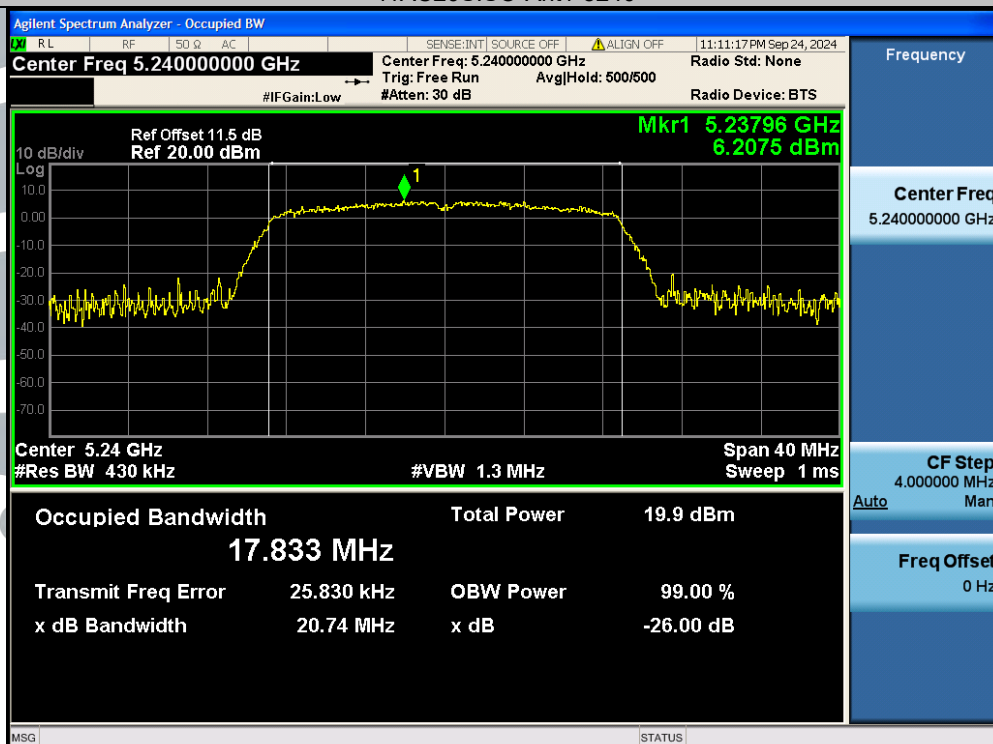
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## 11AC20SISO-Ant1-5220



## 11AC20SISO-Ant1-5240



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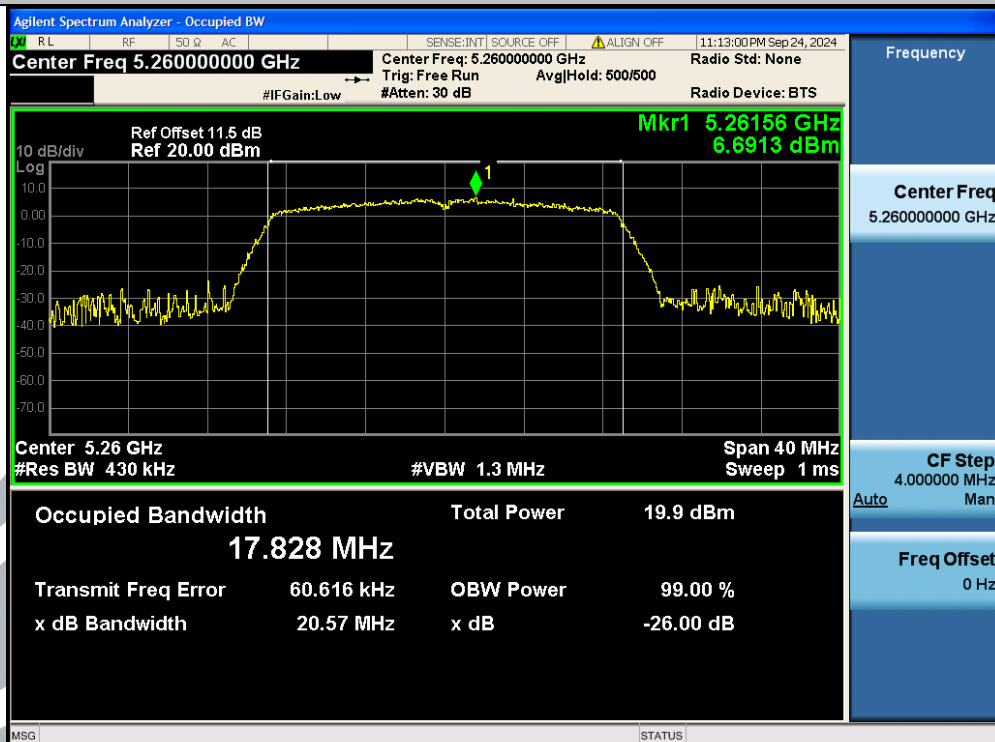
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E-mail: info@uttlab.com

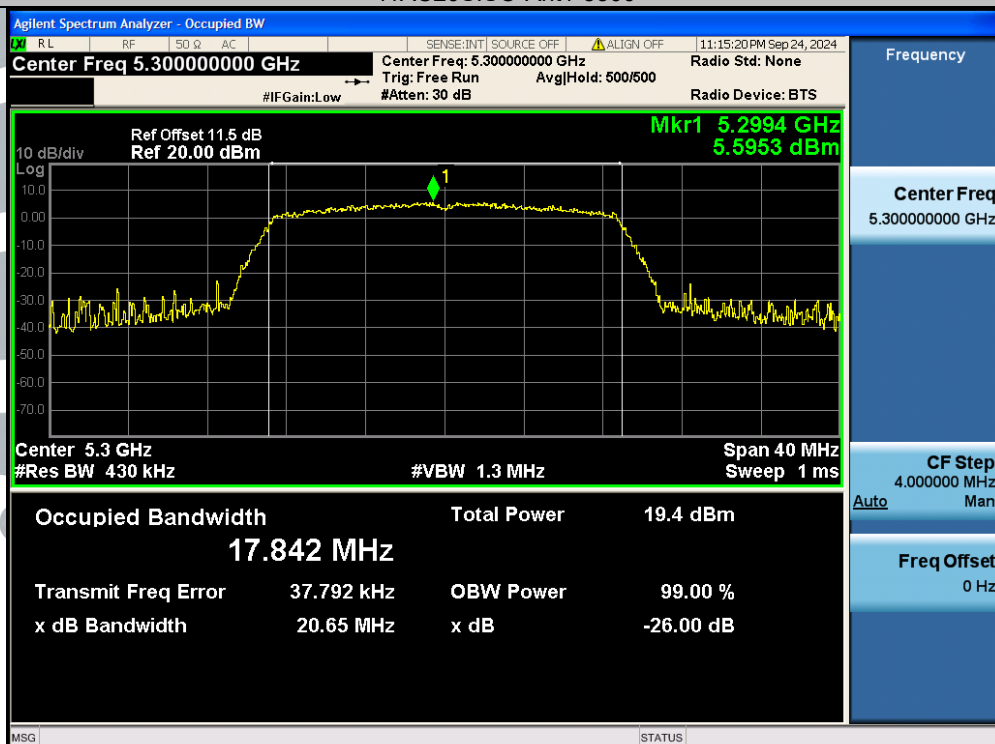
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## 11AC20SISO-Ant1-5260



## 11AC20SISO-Ant1-5300

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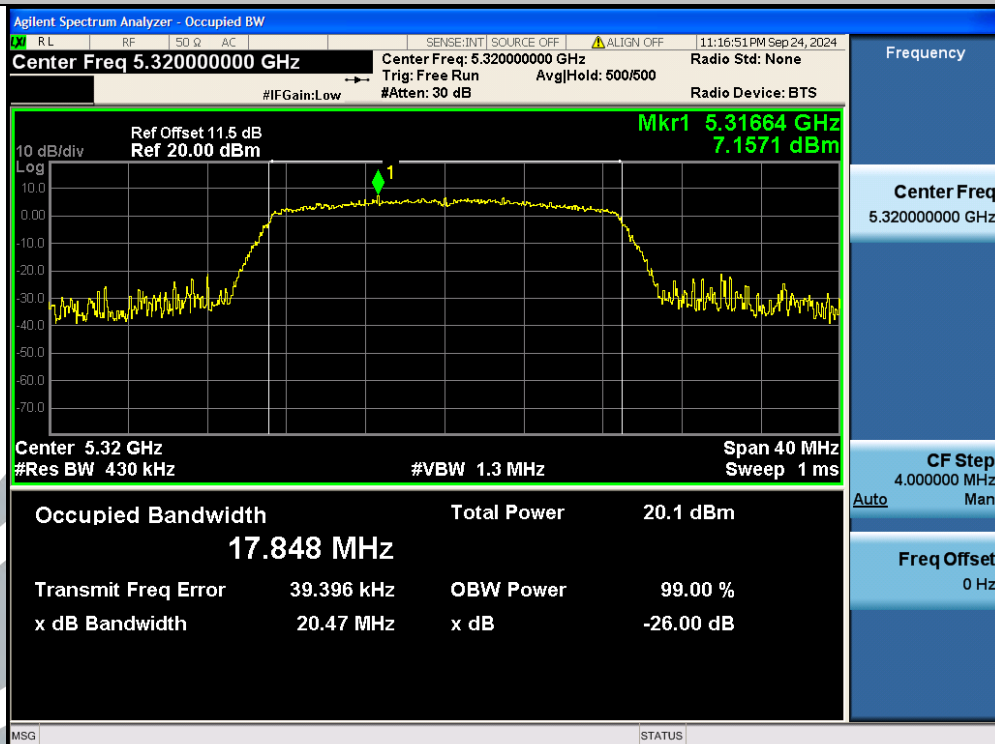
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Fax: +86-755-28230886

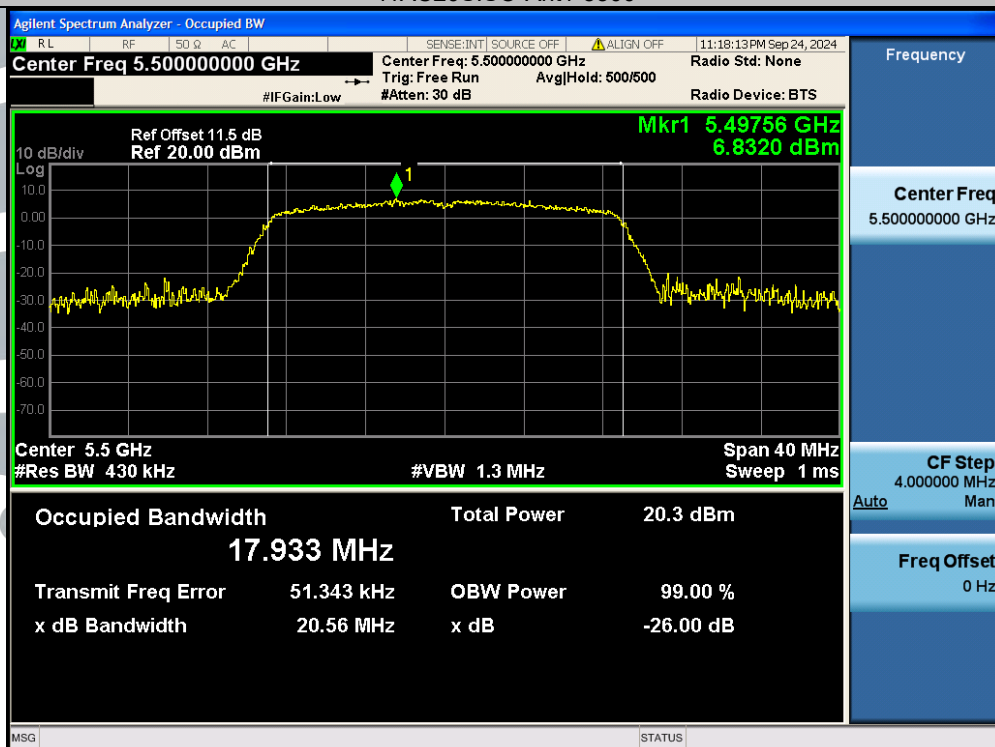
E-mail: [info@uttlab.com](mailto:info@uttlab.com)<http://www.uttlab.com>

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## 11AC20SISO-Ant1-5320



## 11AC20SISO-Ant1-5500



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Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

Tel: +86-755-28230888

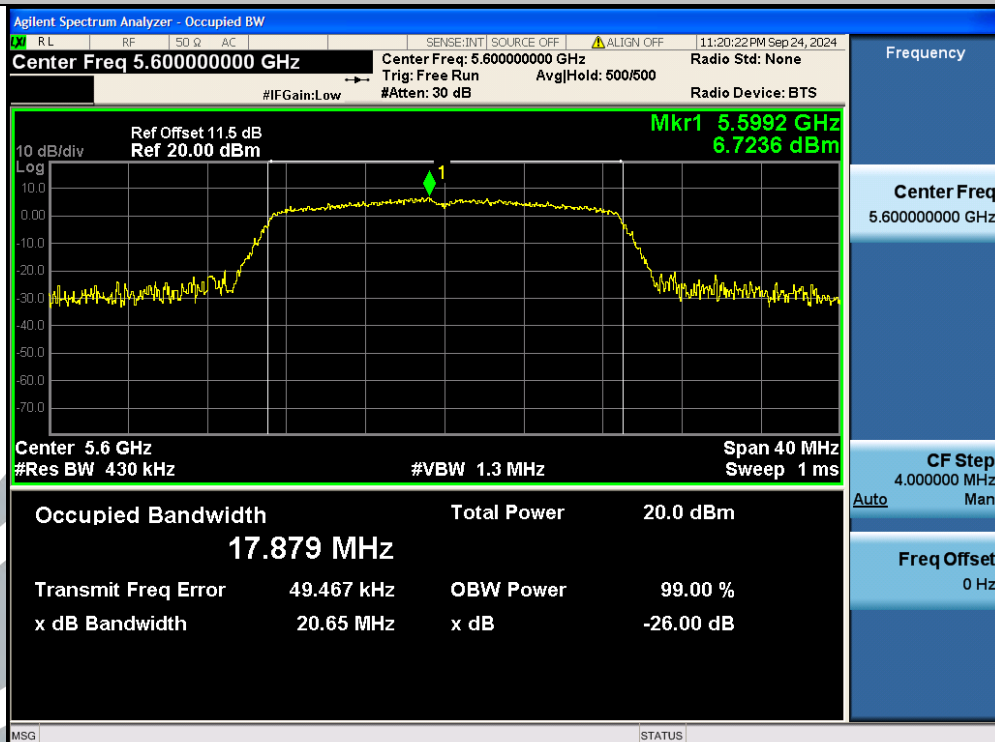
Fax: +86-755-28230886

E-mail: info@uttlab.com

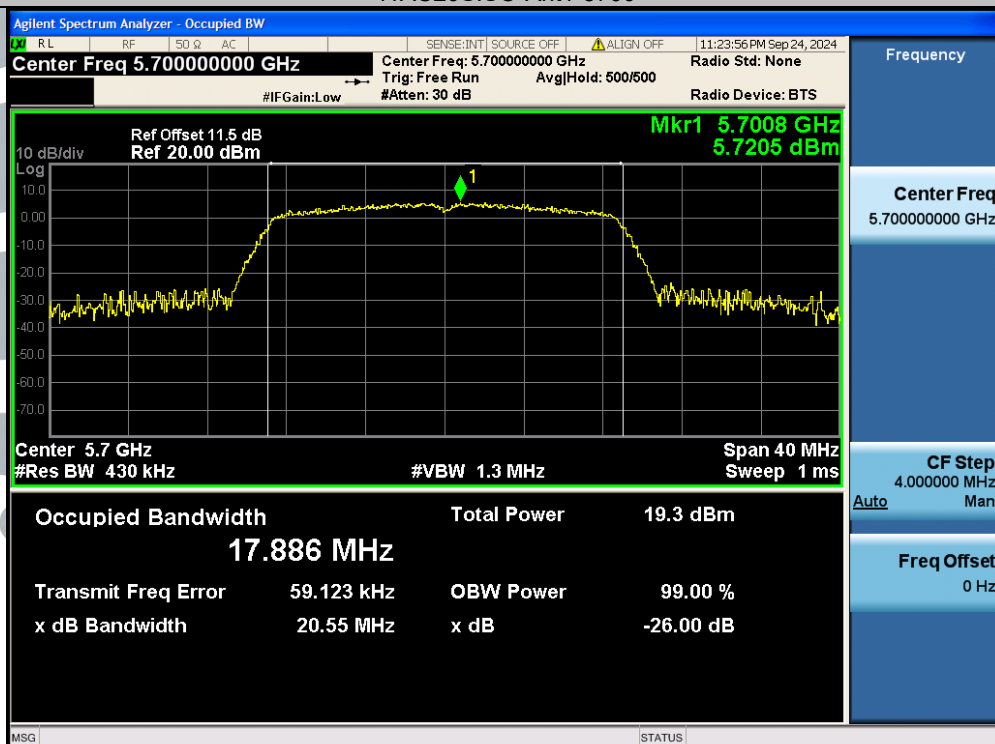
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## 11AC20SISO-Ant1-5600



## 11AC20SISO-Ant1-5700

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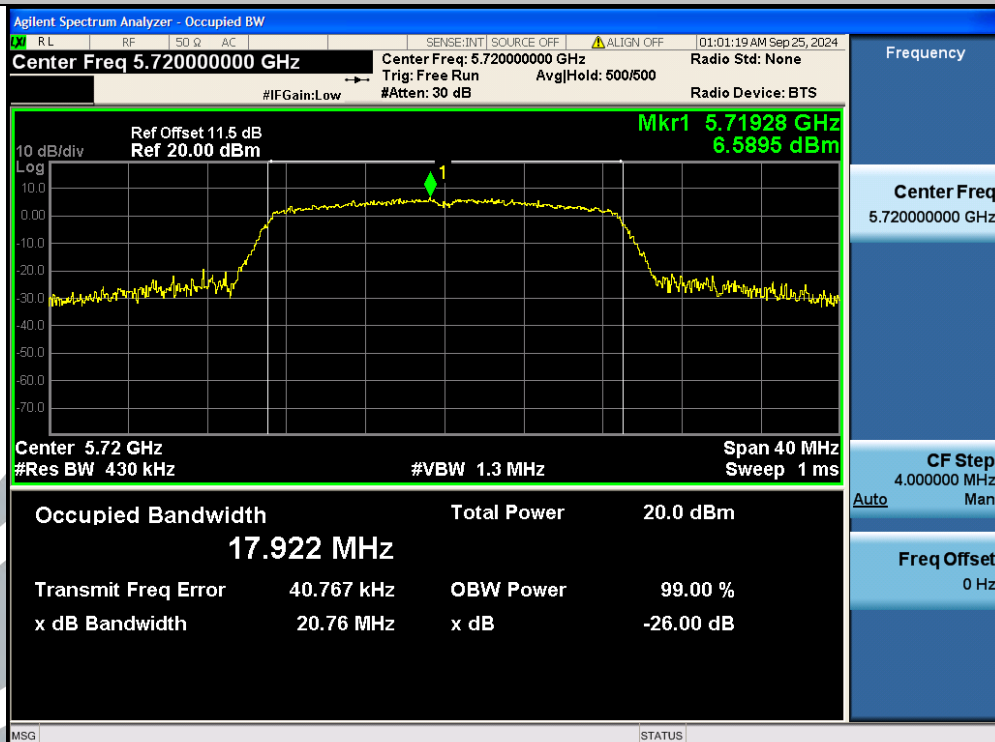
Fax: +86-755-28230886

E-mail: info@uttlab.com

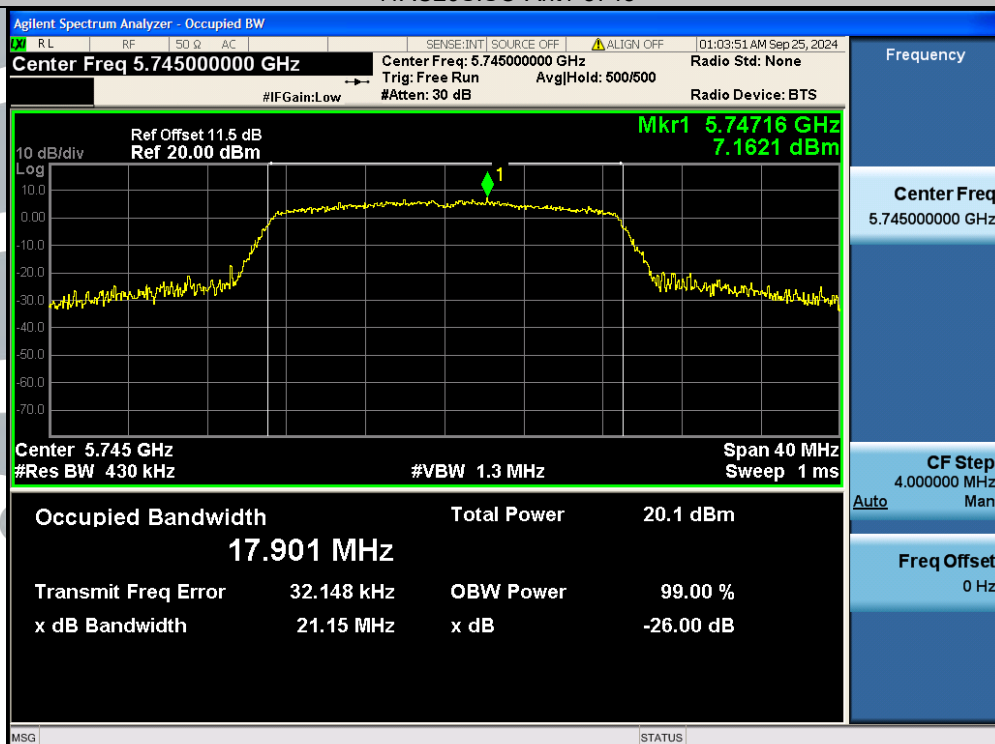
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## 11AC20SISO-Ant1-5720



## 11AC20SISO-Ant1-5745

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Tel: +86-755-28230888

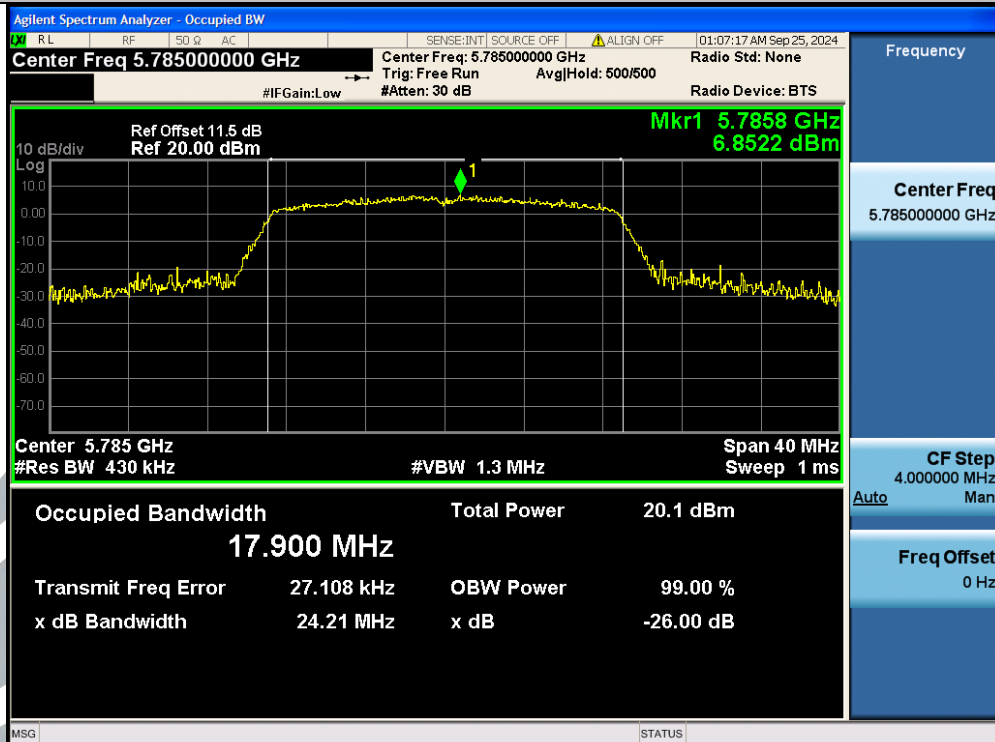
Fax: +86-755-28230886

E-mail: info@uttlab.com

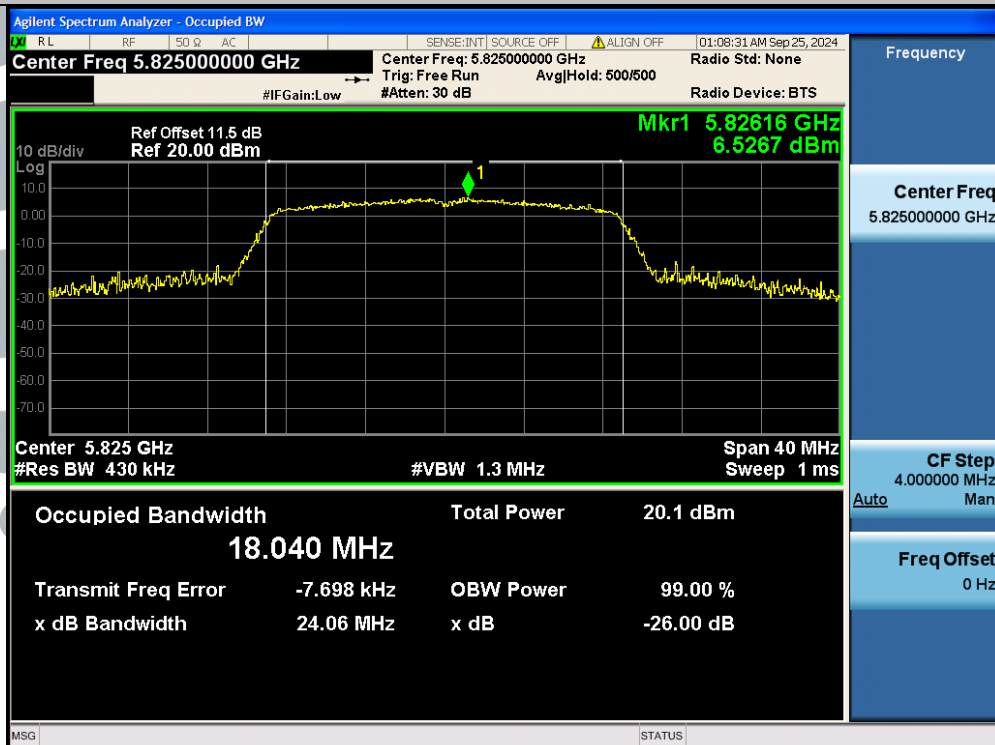
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## 11AC20SISO-Ant1-5785



## 11AC20SISO-Ant1-5825

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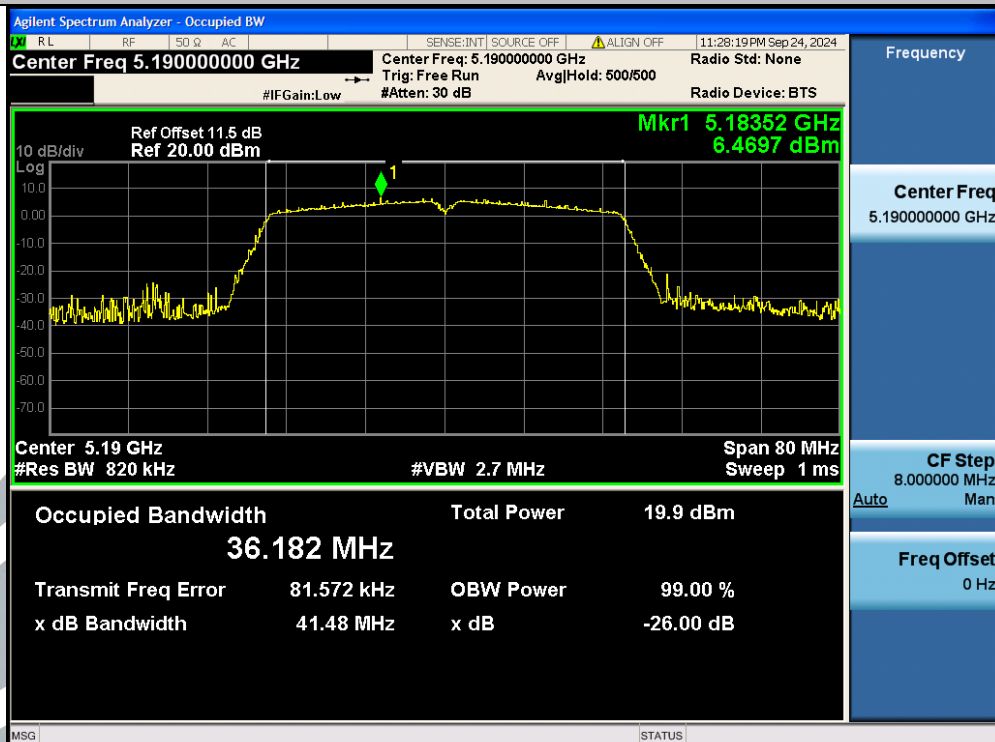
Tel: +86-755-28230888

Fax: +86-755-28230886

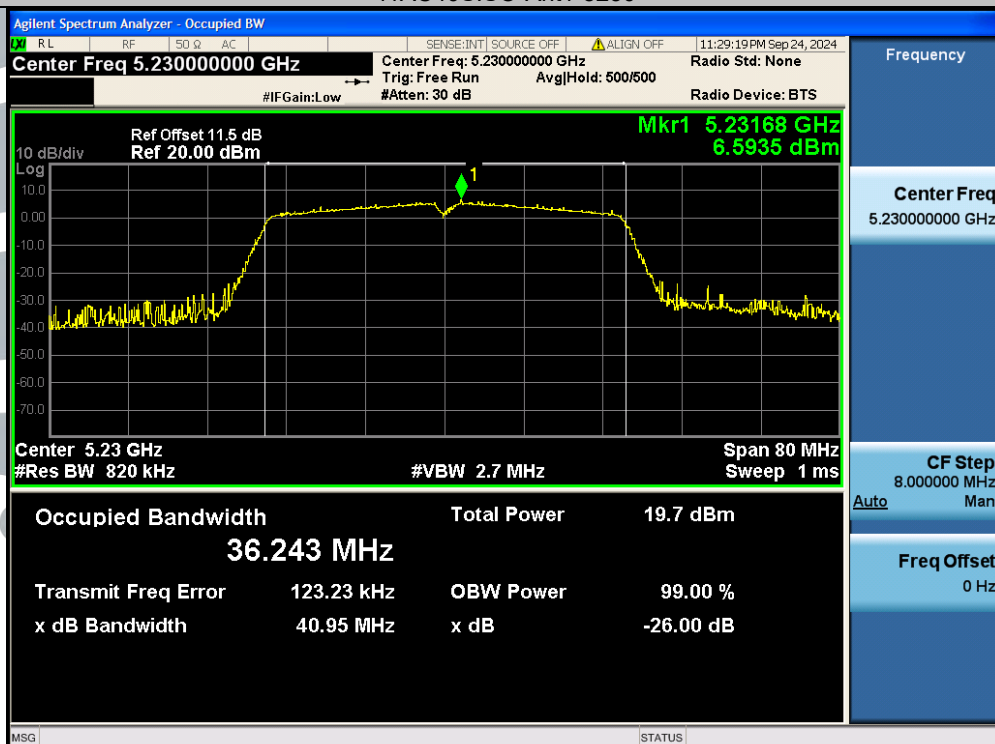
E-mail: [info@uttlab.com](mailto:info@uttlab.com)<http://www.uttlab.com>

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## 11AC40SISO-Ant1-5190



## 11AC40SISO-Ant1-5230

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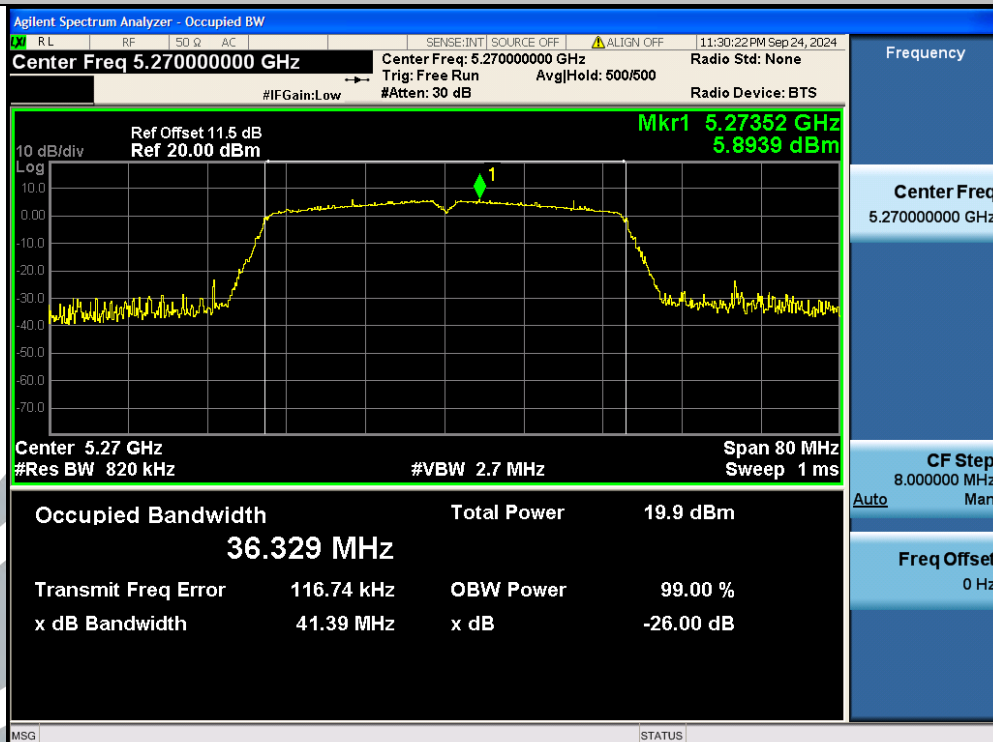
Fax: +86-755-28230886

E-mail: info@uttlab.com

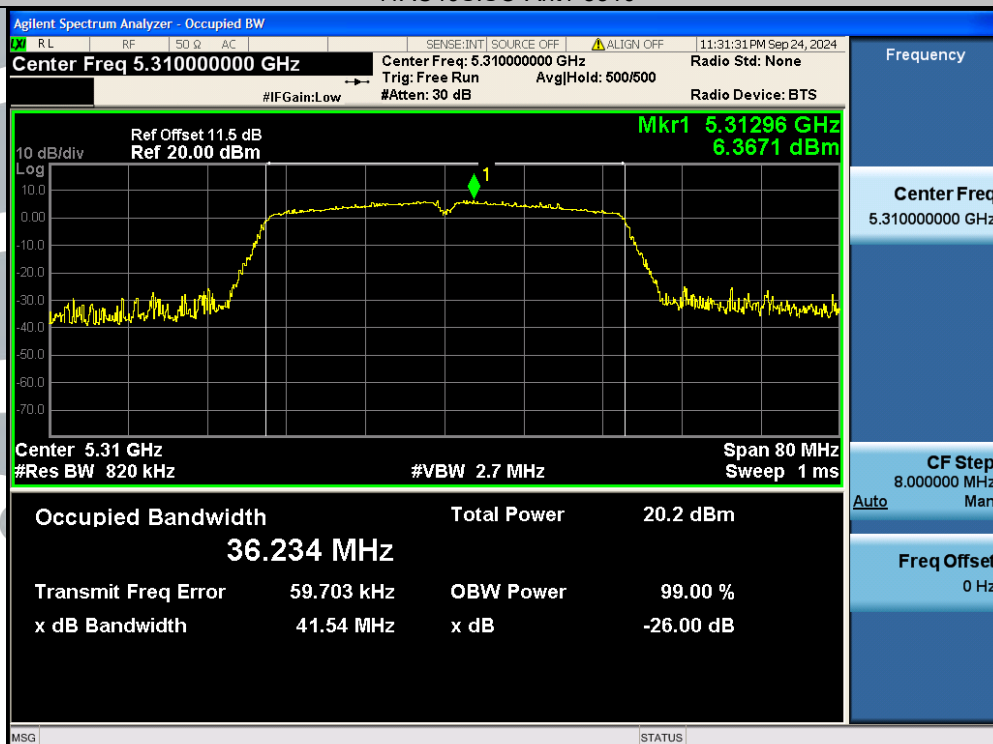
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## 11AC40SISO-Ant1-5270



## 11AC40SISO-Ant1-5310



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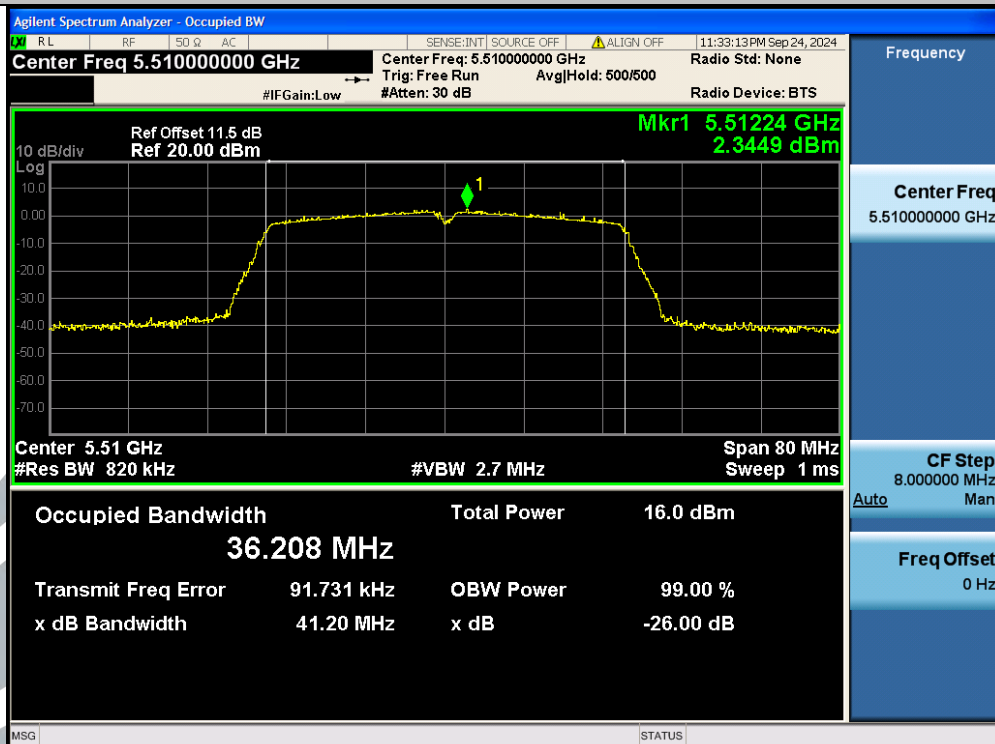
Fax: +86-755-28230886

E-mail: info@uttlab.com

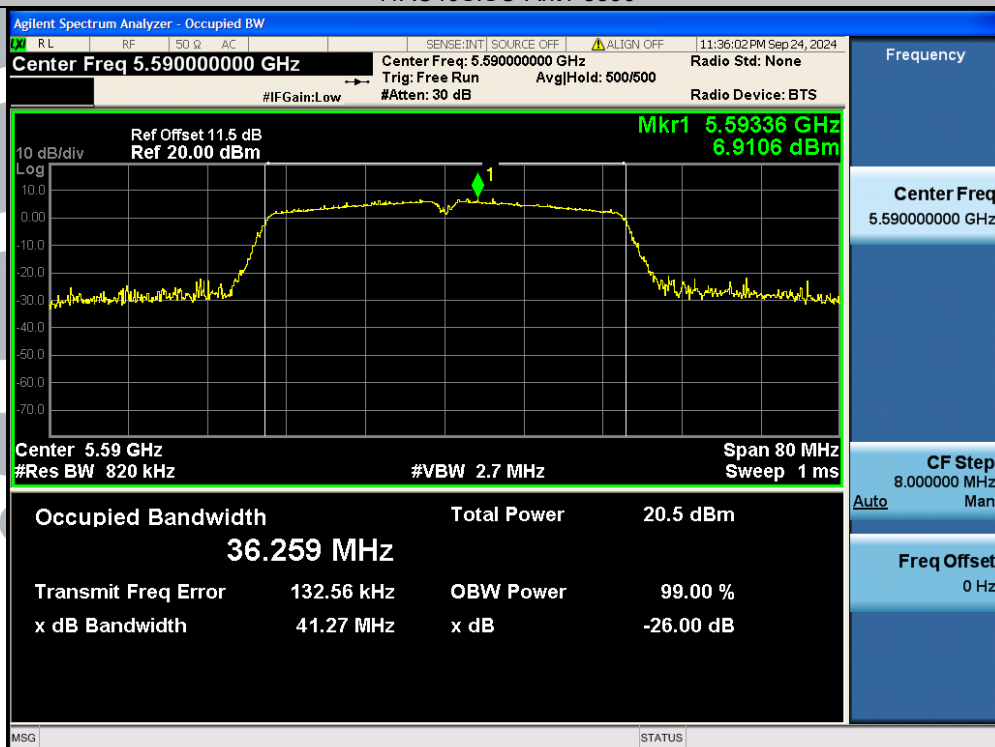
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## 11AC40SISO-Ant1-5510



## 11AC40SISO-Ant1-5590



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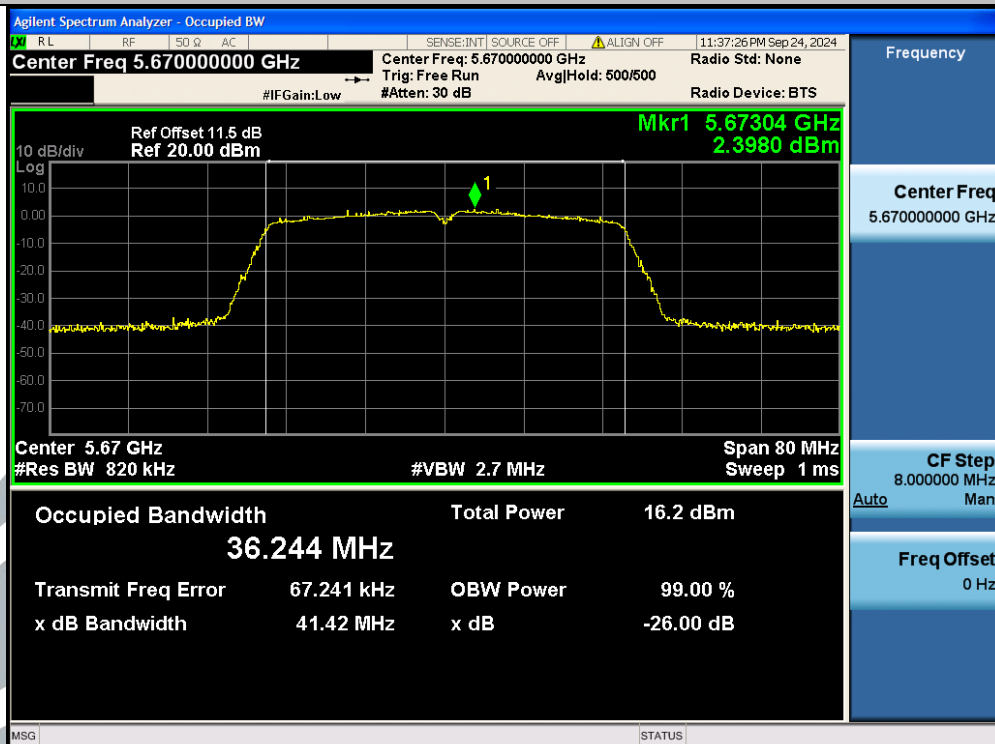
Fax: +86-755-28230886

E-mail: info@uttlab.com

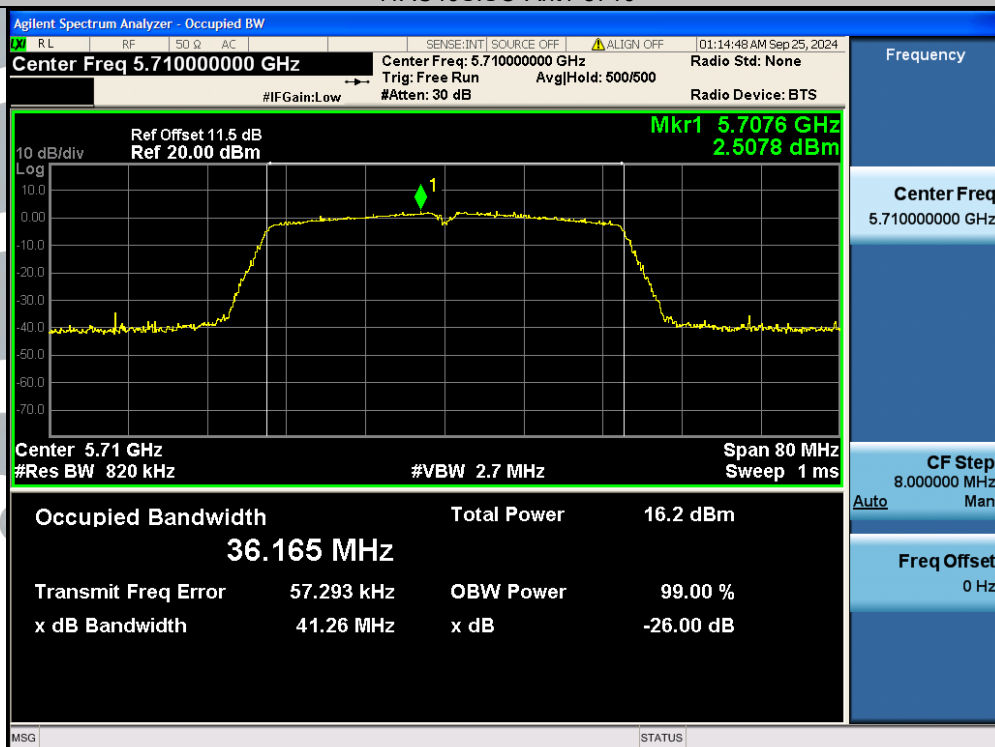
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## 11AC40SISO-Ant1-5670



## 11AC40SISO-Ant1-5710



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Tel: +86-755-28230888

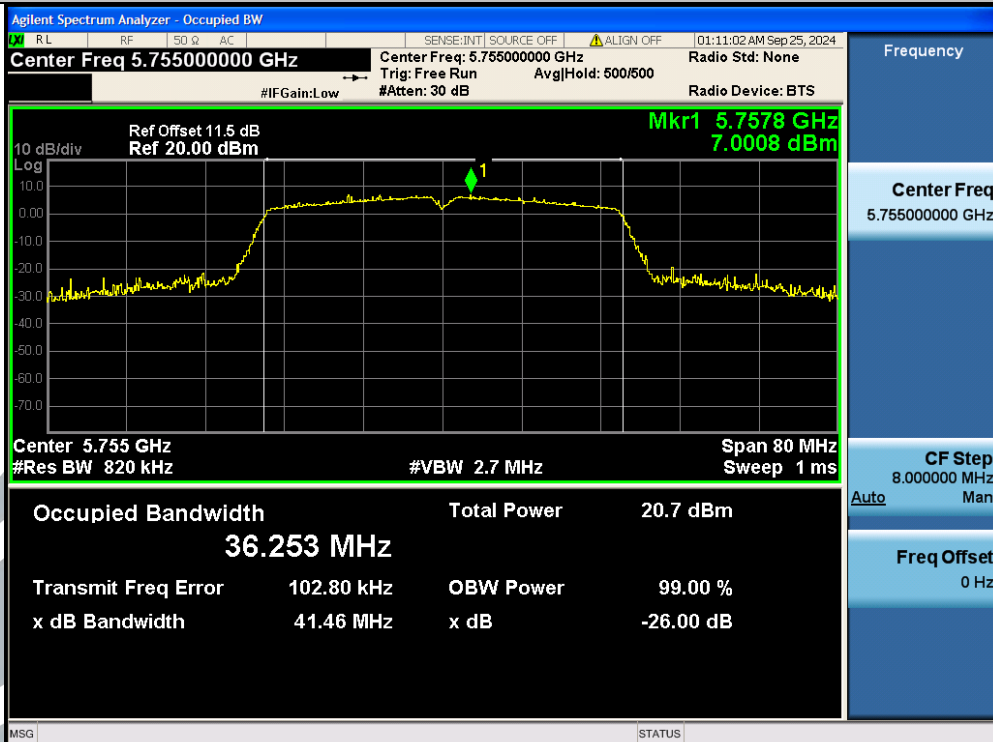
Fax: +86-755-28230886

E-mail: info@uttlab.com

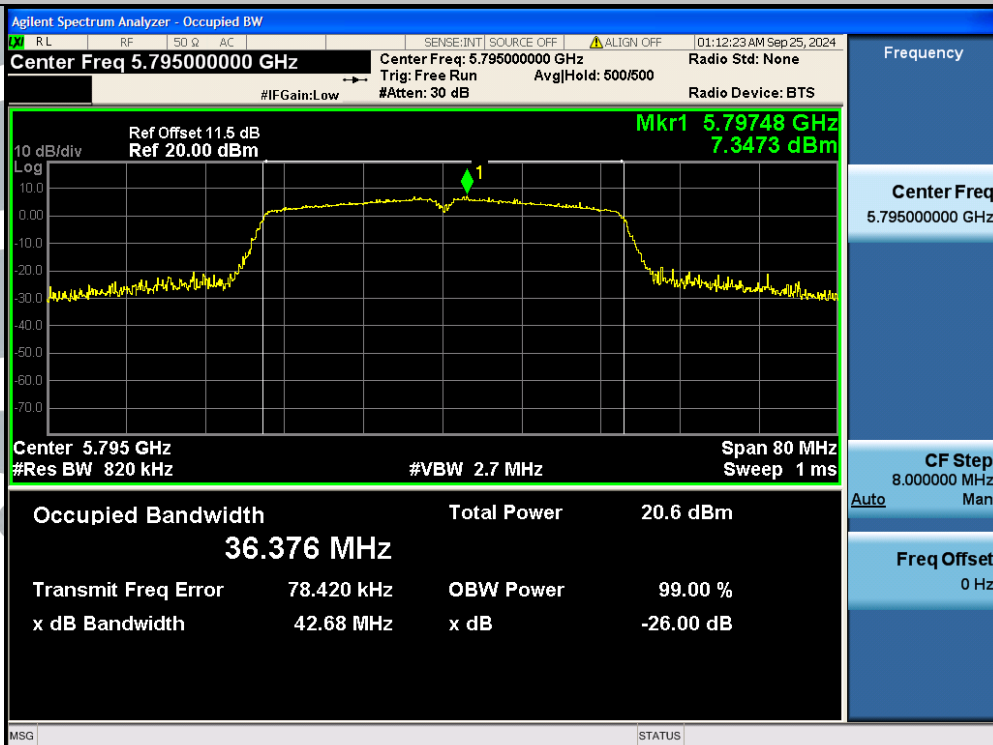
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## 11AC40SISO-Ant1-5755



## 11AC40SISO-Ant1-5795



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Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

Tel: +86-755-28230888

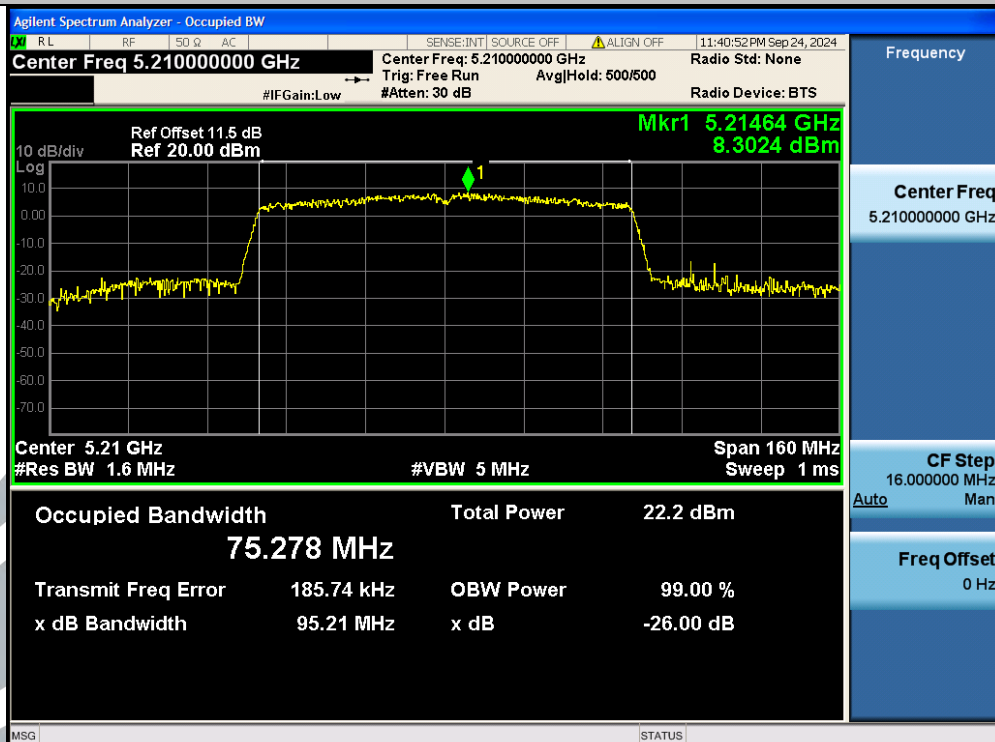
Fax: +86-755-28230886

E-mail: info@uttlab.com

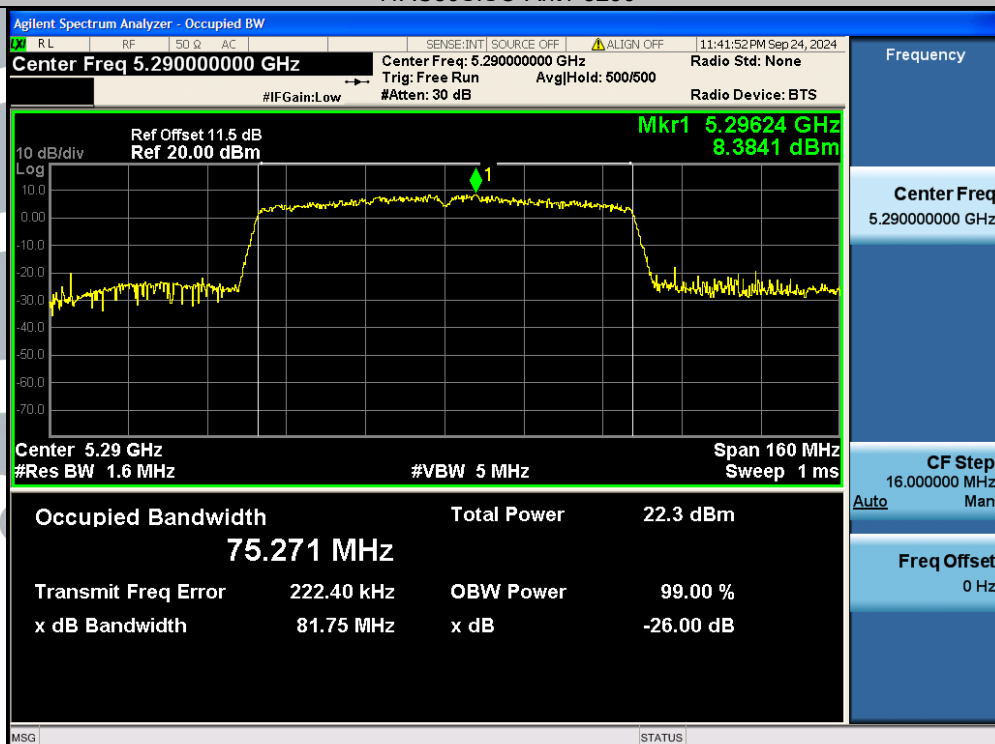
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## 11AC80SISO-Ant1-5210



## 11AC80SISO-Ant1-5290



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Tel: +86-755-28230888

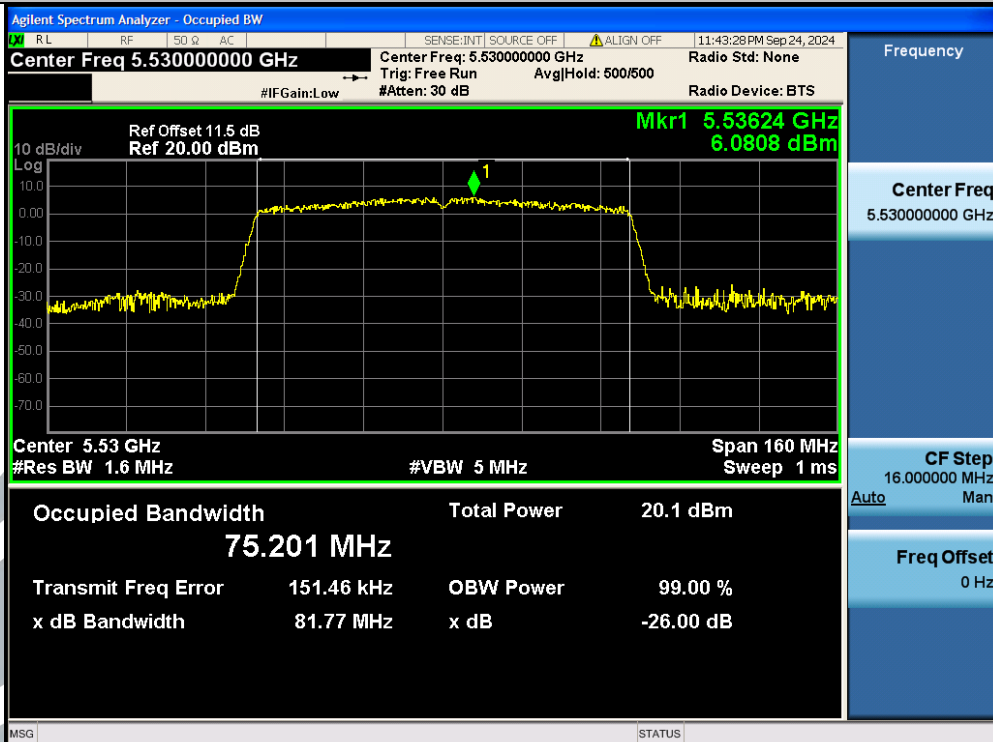
Fax: +86-755-28230886

E-mail: info@uttlab.com

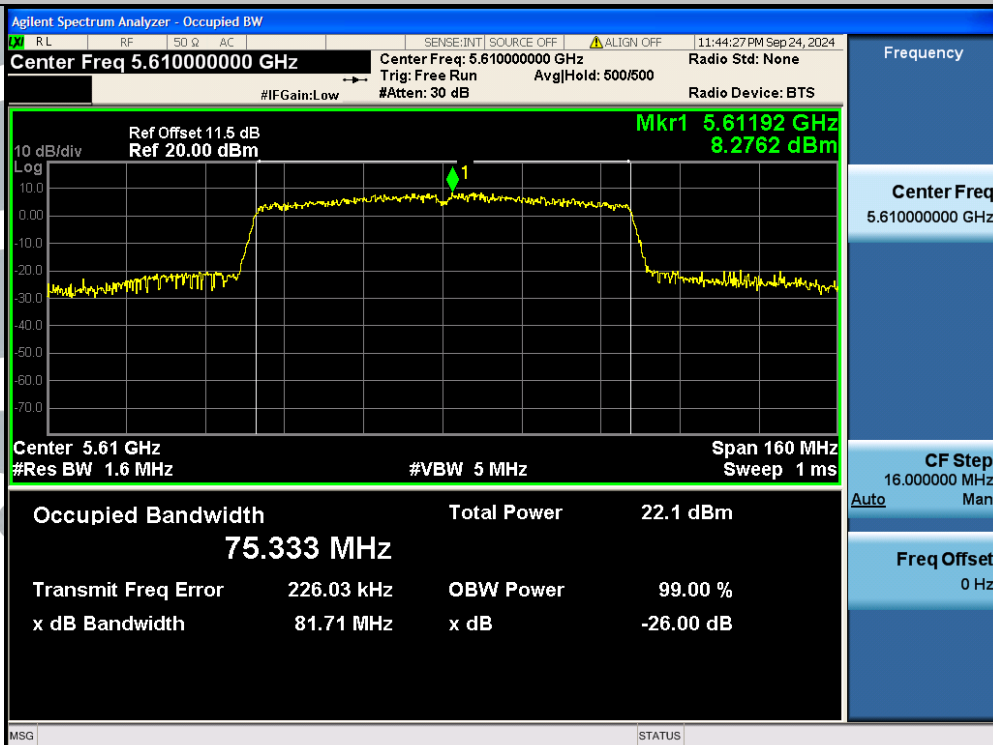
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## 11AC80SISO-Ant1-5530



## 11AC80SISO-Ant1-5610



## Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

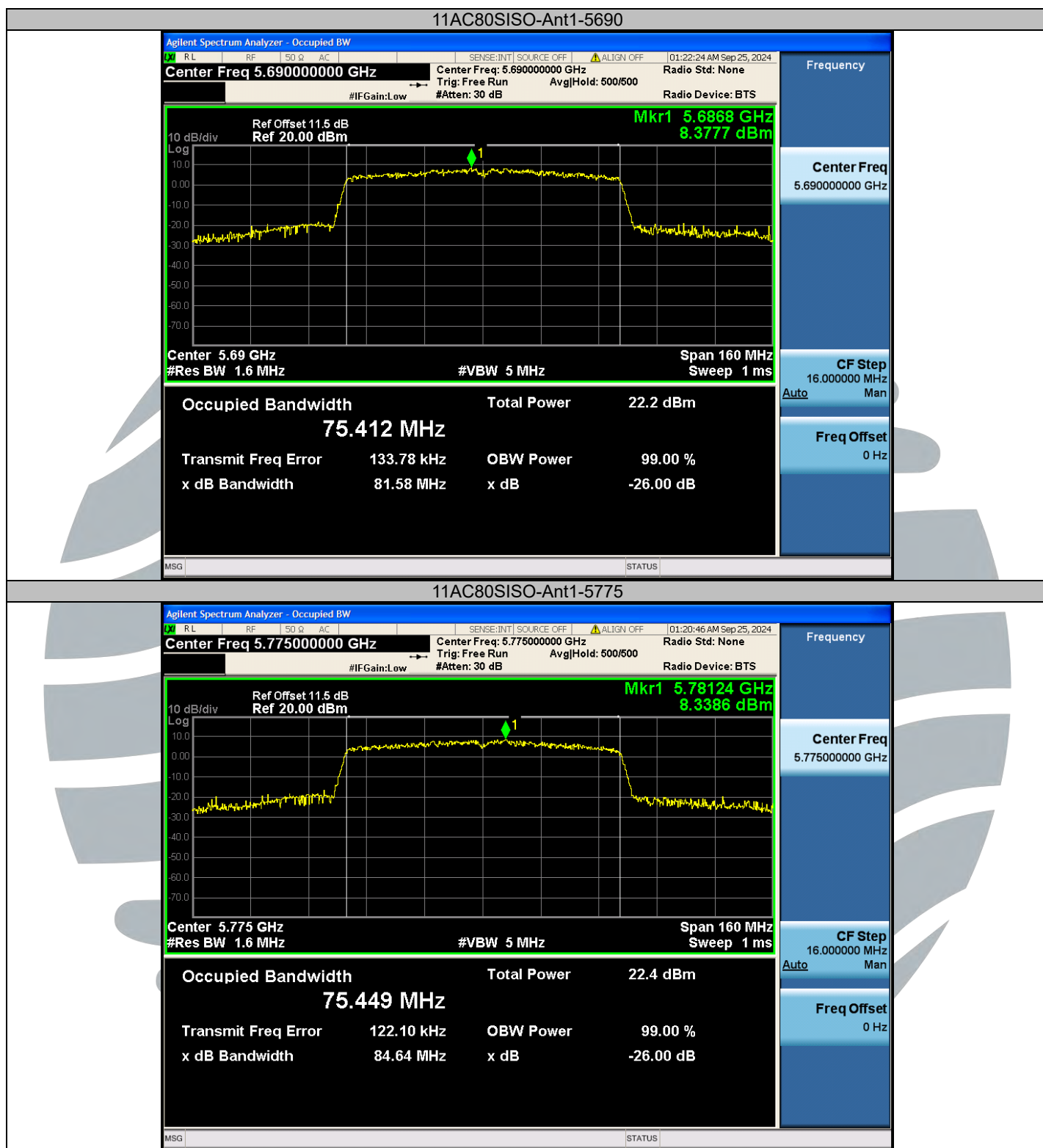
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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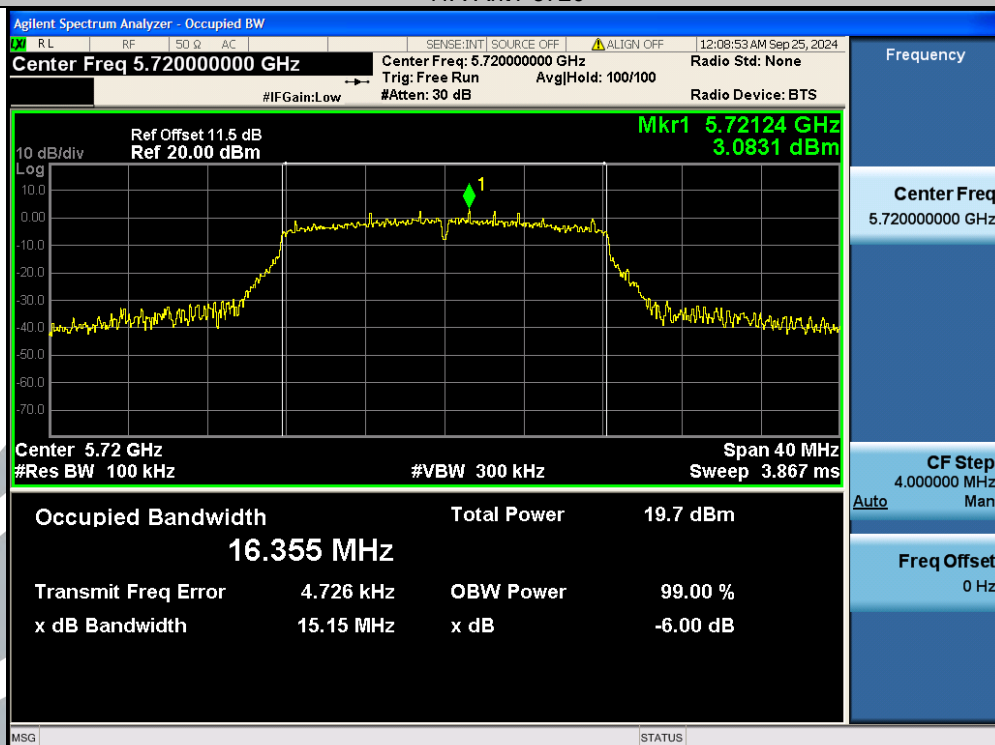
UTTR-RF-FCCPART15.407-V1.2

**A.3 6 DB BANDWIDTH****For U-NII-3 band**

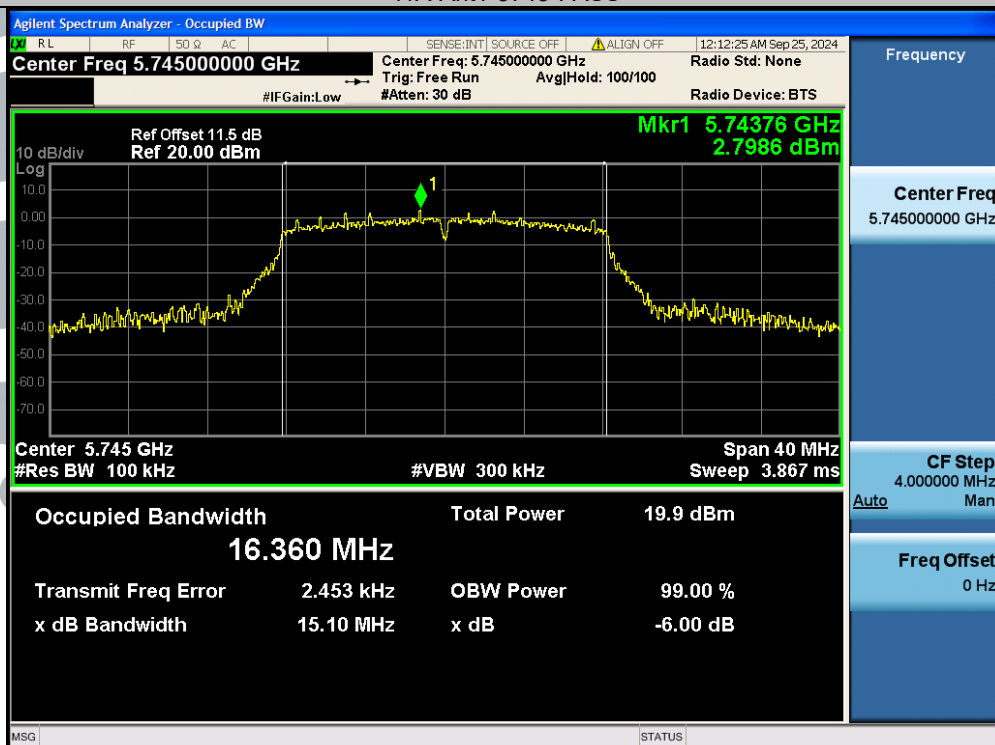
| Test Mode  | Antenna | Frequency[MHz] | 6db EBW [MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|------------|---------|
| 11A        | Ant1    | 5720           | 15.15         | 0.5        | PASS    |
| 11A        | Ant1    | 5745           | 15.10         | 0.5        | PASS    |
| 11A        | Ant1    | 5785           | 15.11         | 0.5        | PASS    |
| 11A        | Ant1    | 5825           | 13.83         | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5720           | 13.34         | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 13.86         | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5785           | 15.04         | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5825           | 14.46         | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5710           | 35.11         | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 32.66         | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5795           | 35.18         | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5720           | 14.91         | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 15.06         | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5785           | 13.87         | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5825           | 15.14         | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5710           | 35.05         | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 35.14         | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5795           | 33.93         | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5690           | 75.25         | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 75.37         | 0.5        | PASS    |

## Test Graphs

11A-Ant1-5720



11A-Ant1-5745-PASS



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Tel: +86-755-28230888

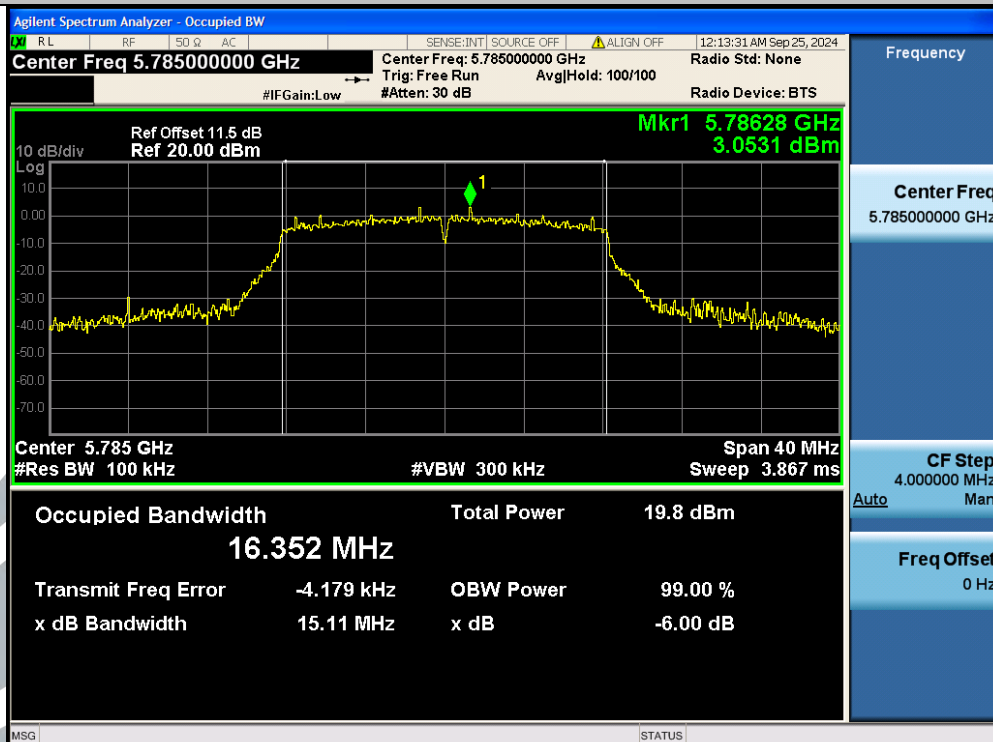
Fax: +86-755-28230886

E-mail: info@uttlab.com

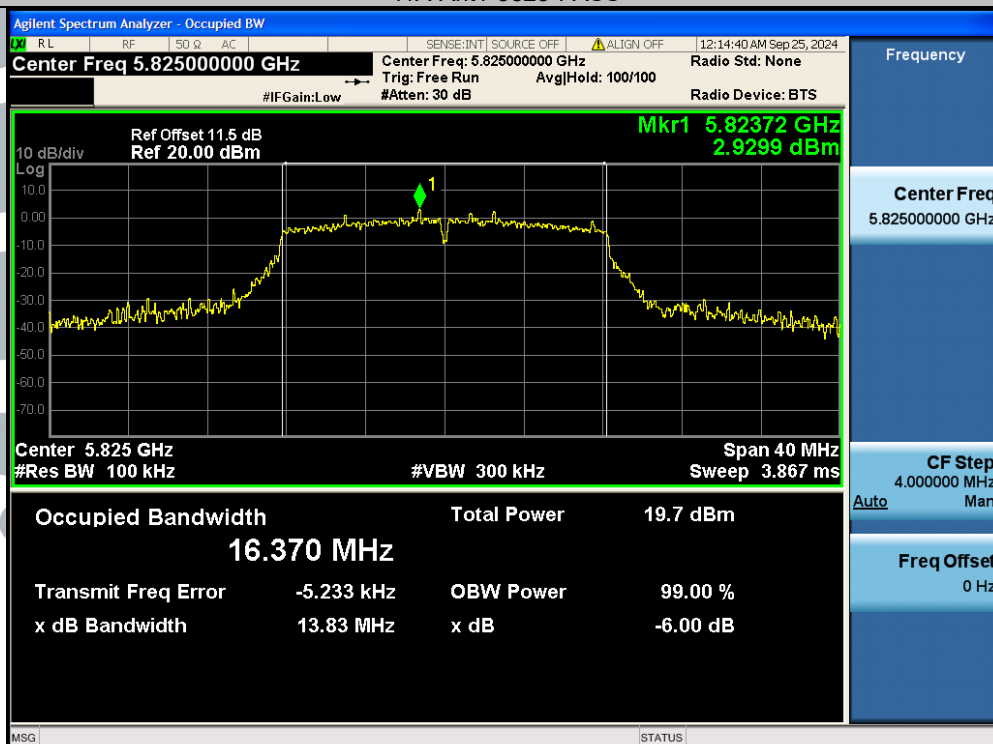
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## 11A-Ant1-5785-PASS



## 11A-Ant1-5825-PASS



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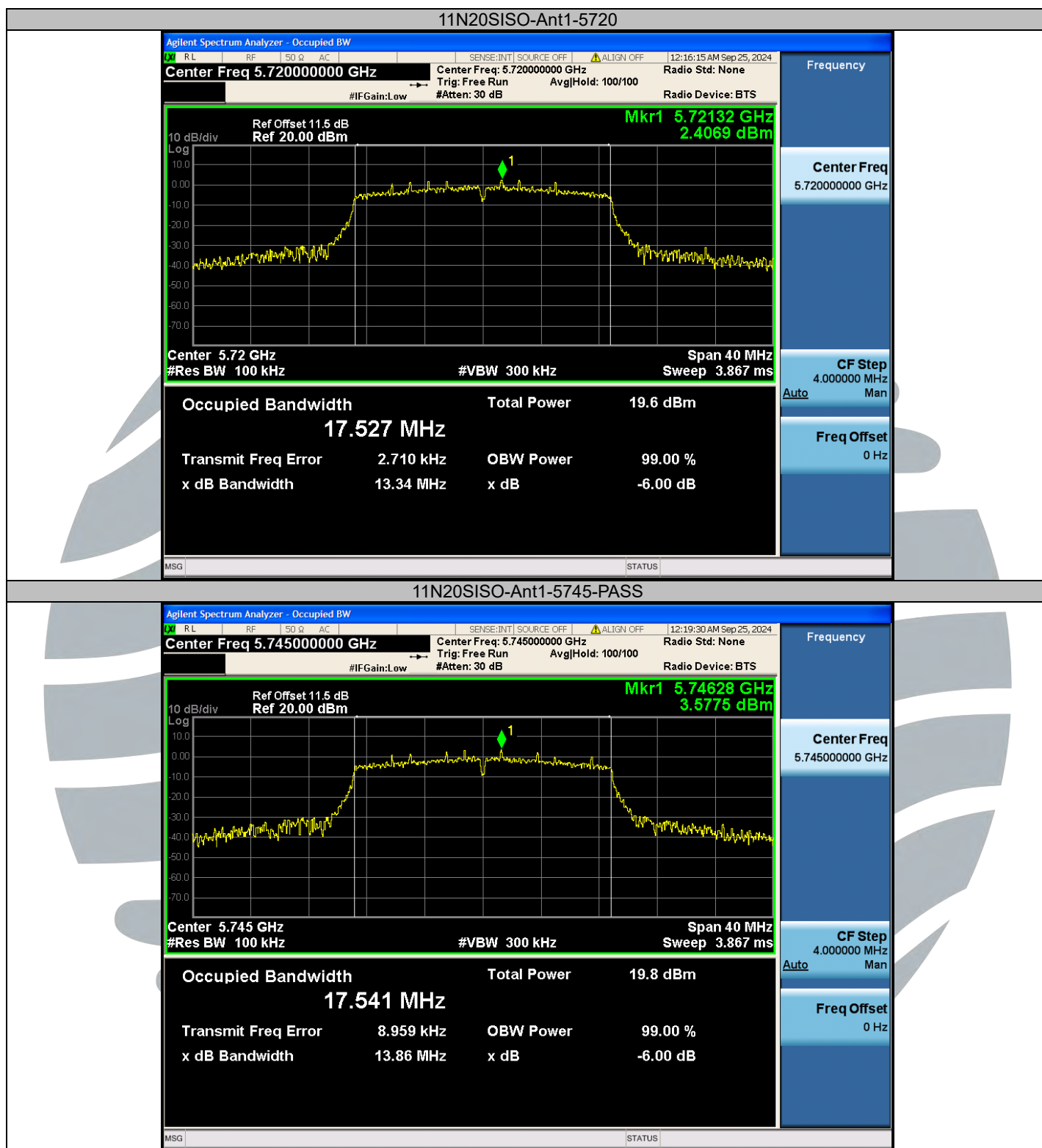
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Fax: +86-755-28230886

E-mail: info@uttlab.com

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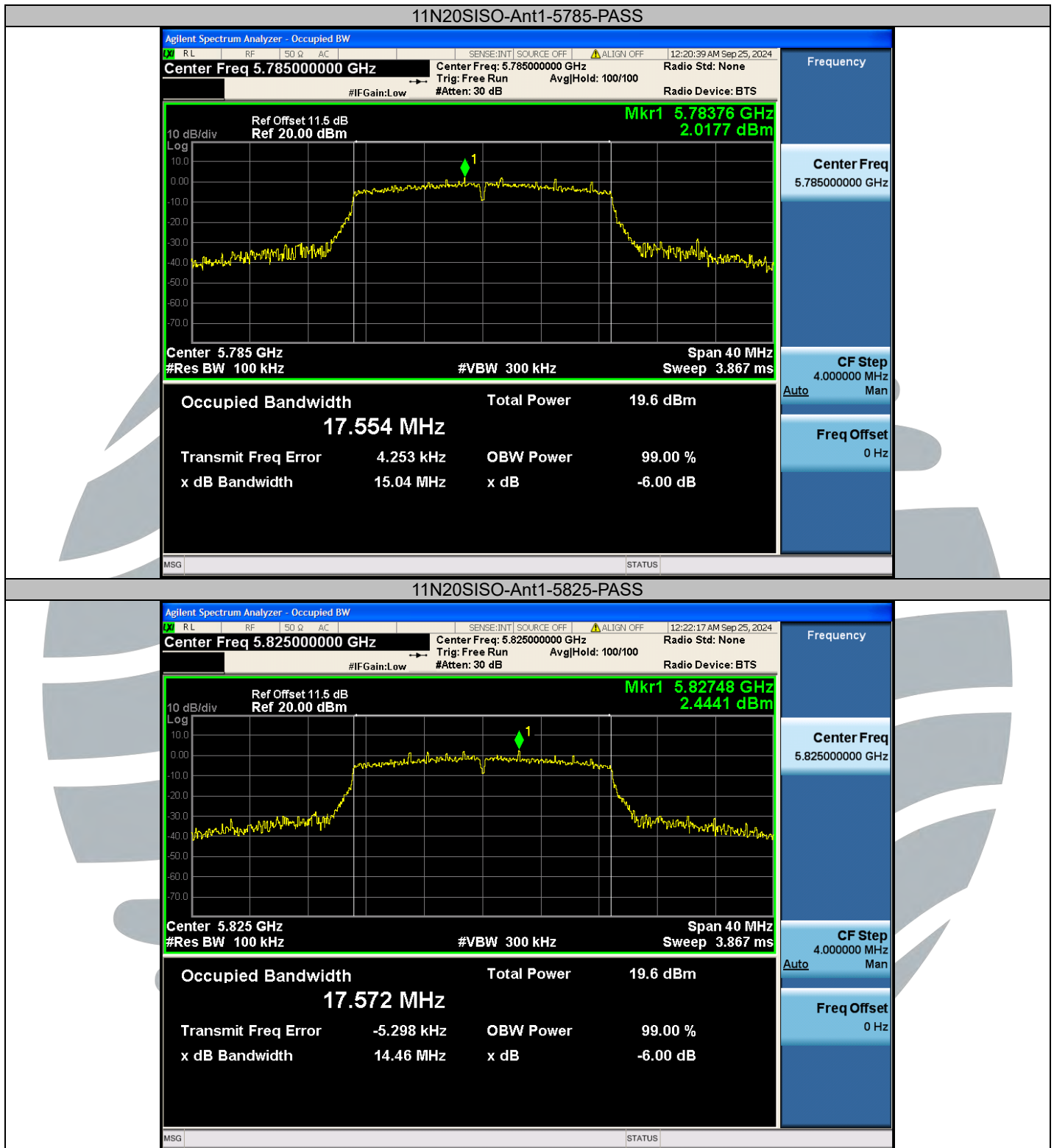
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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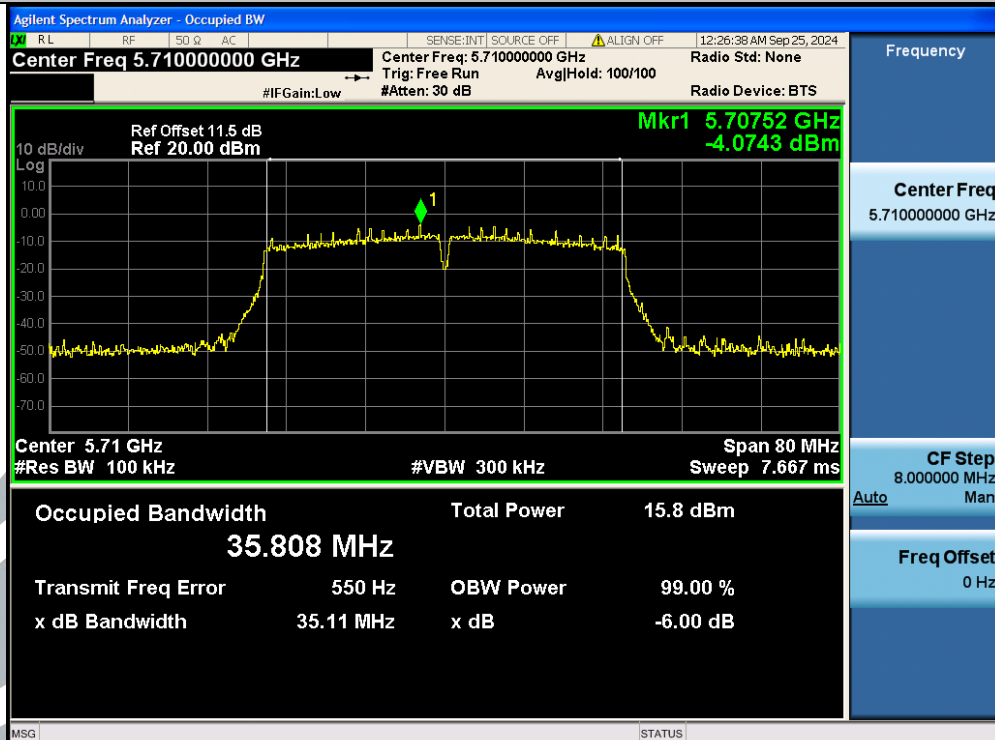
Fax: +86-755-28230886

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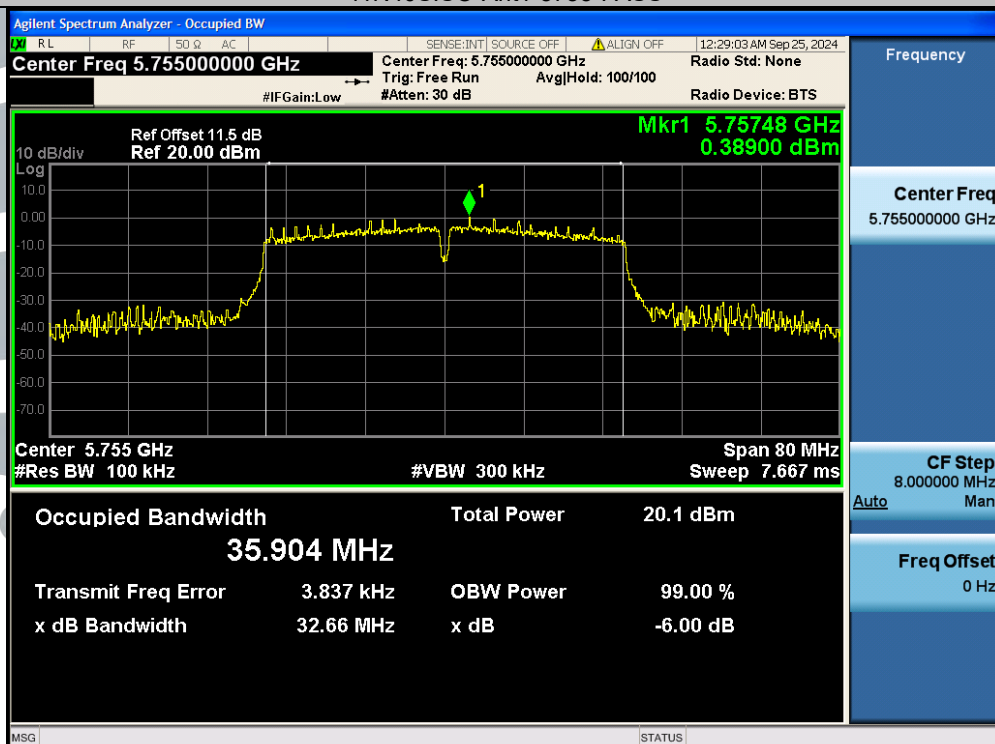
<http://www.uttlab.com>

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## 11N40SISO-Ant1-5710



## 11N40SISO-Ant1-5755-PASS



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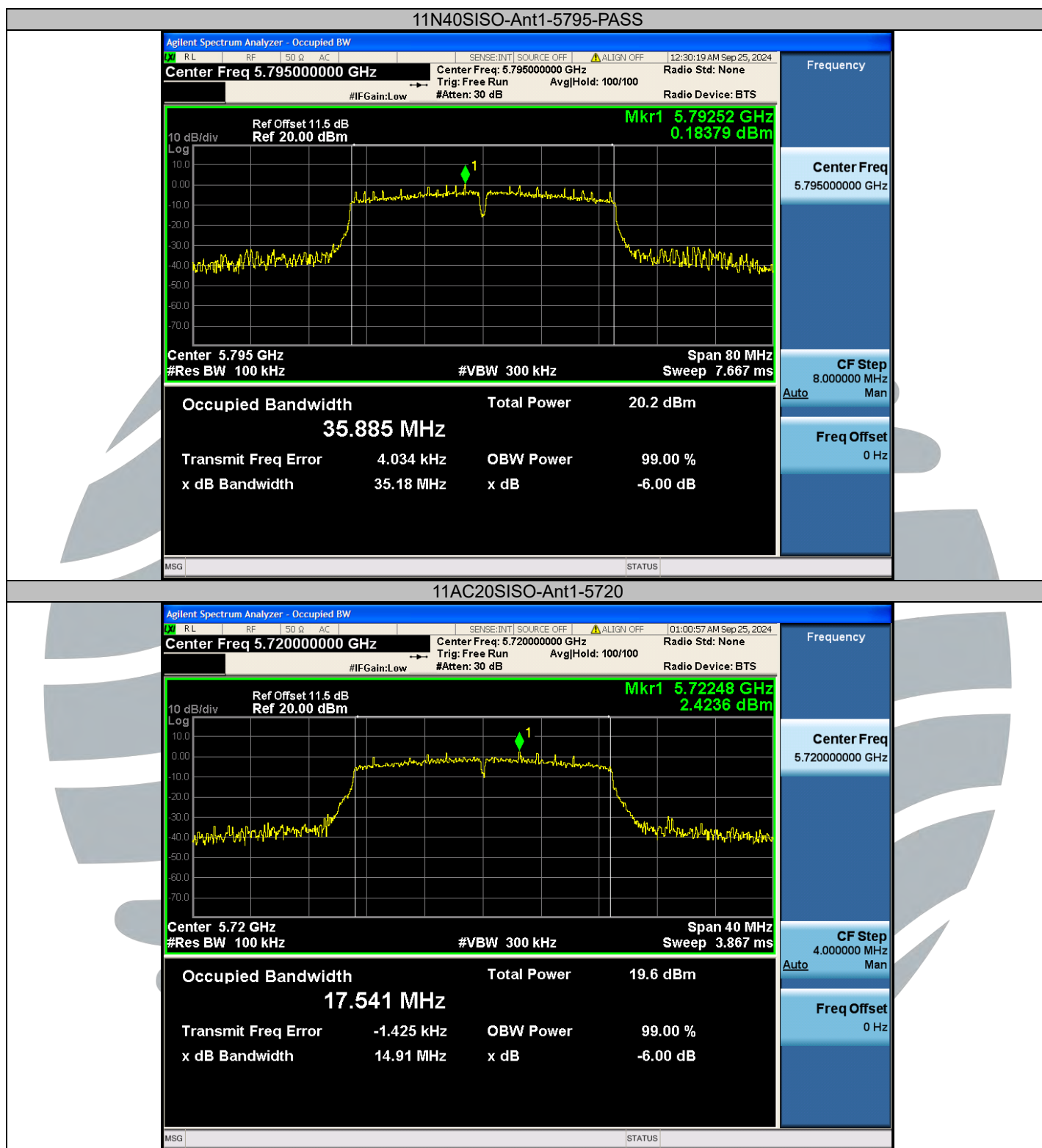
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Fax: +86-755-28230886

E-mail: info@uttlab.com

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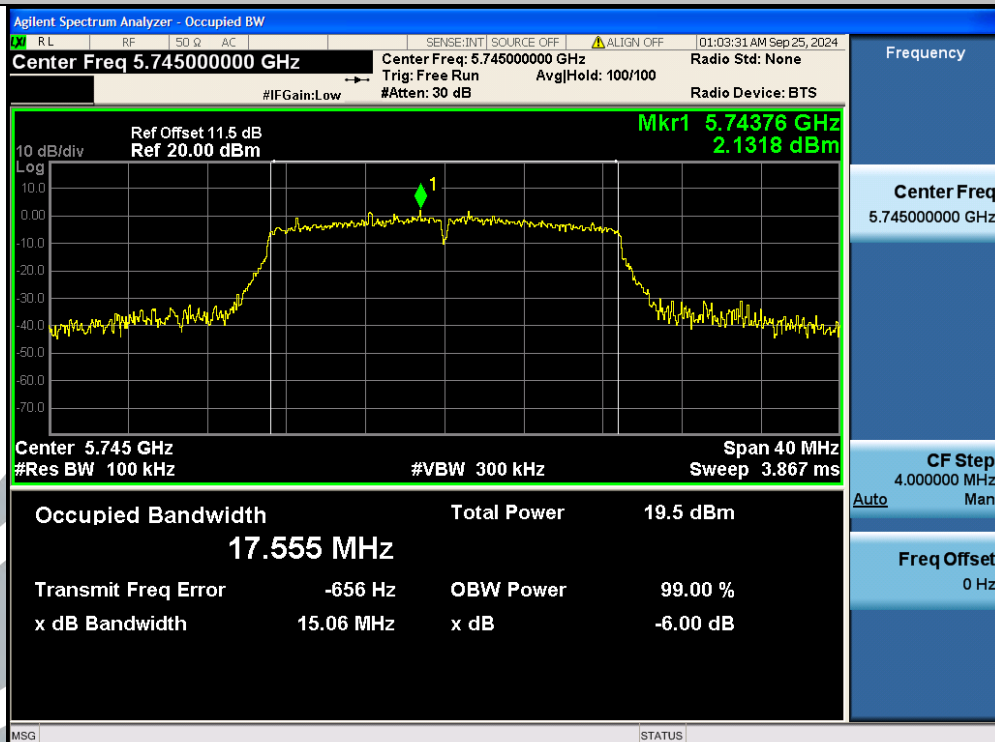
Fax: +86-755-28230886

E-mail: info@uttlab.com

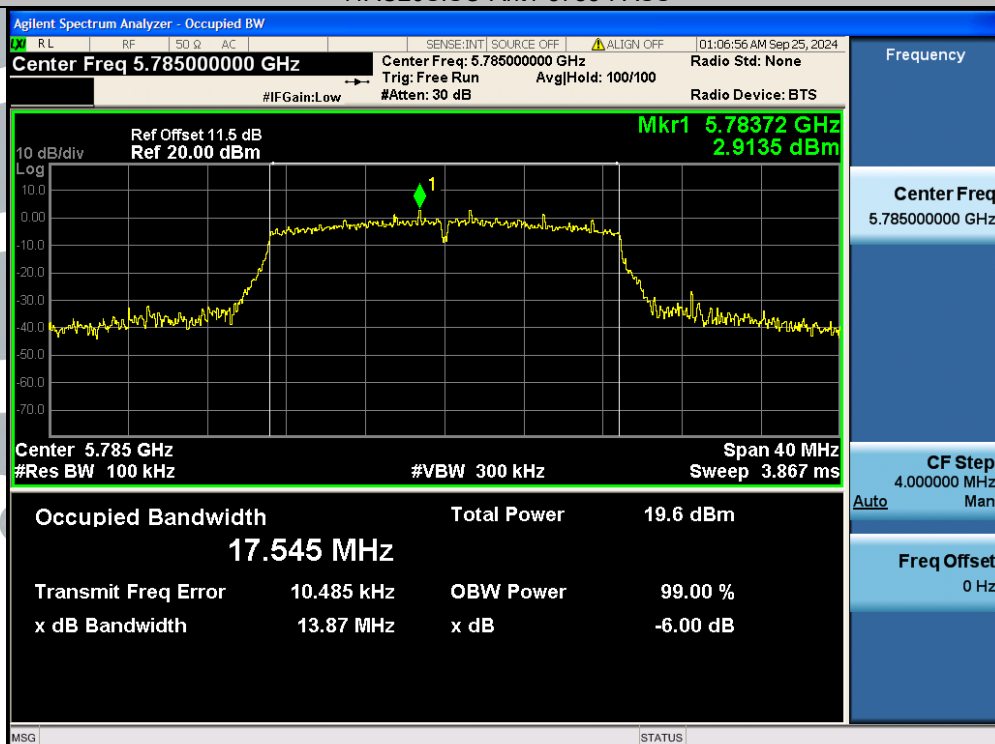
<http://www.uttlab.com>

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## 11AC20SISO-Ant1-5745-PASS



## 11AC20SISO-Ant1-5785-PASS



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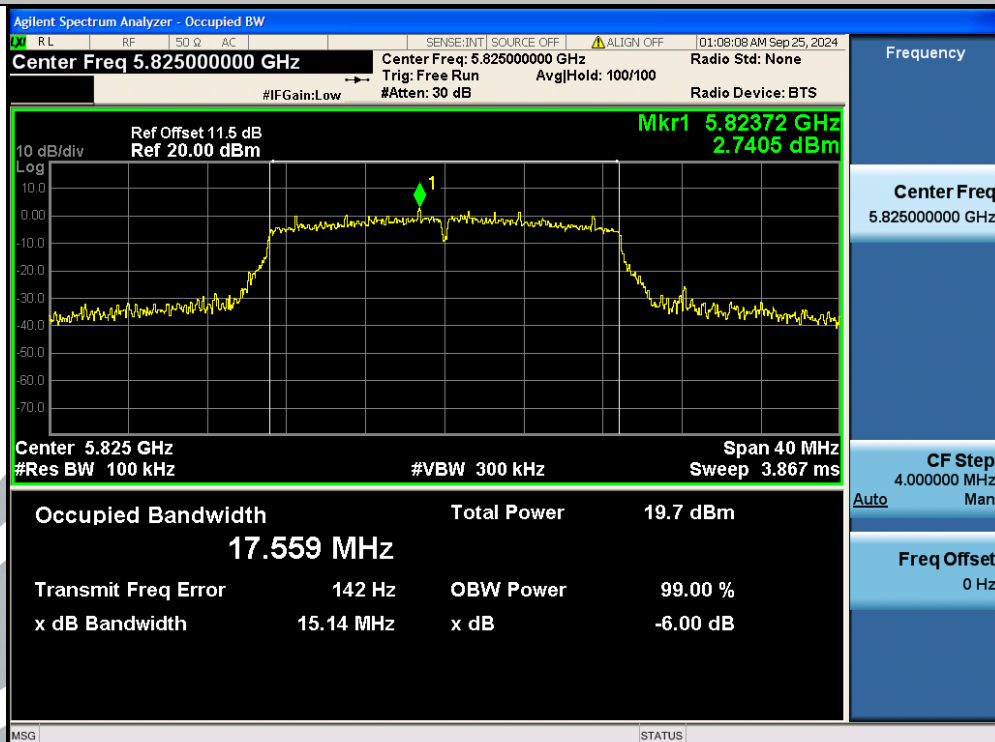
Fax: +86-755-28230886

E-mail: info@uttlab.com

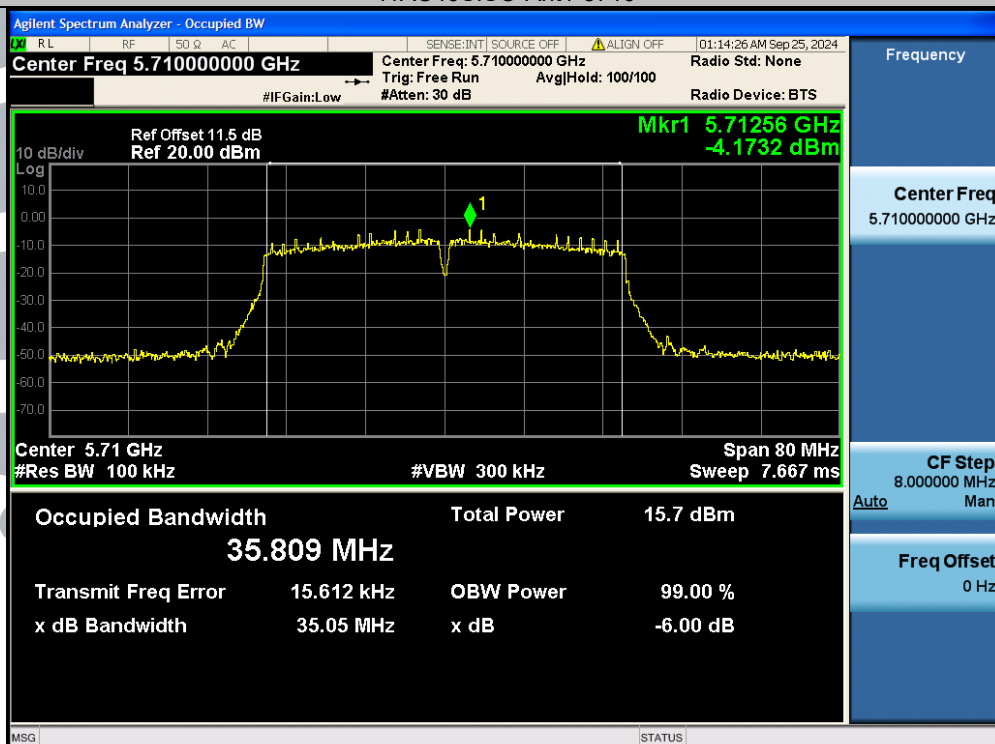
<http://www.uttlab.com>

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## 11AC20SISO-Ant1-5825-PASS



## 11AC40SISO-Ant1-5710



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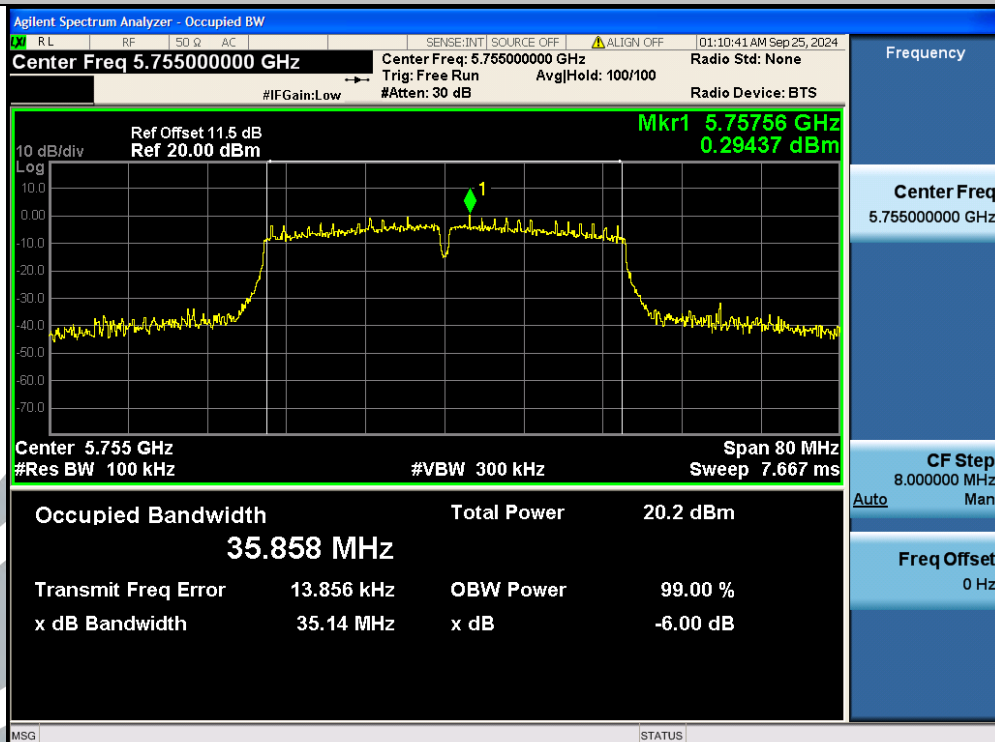
Fax: +86-755-28230886

E-mail: info@uttlab.com

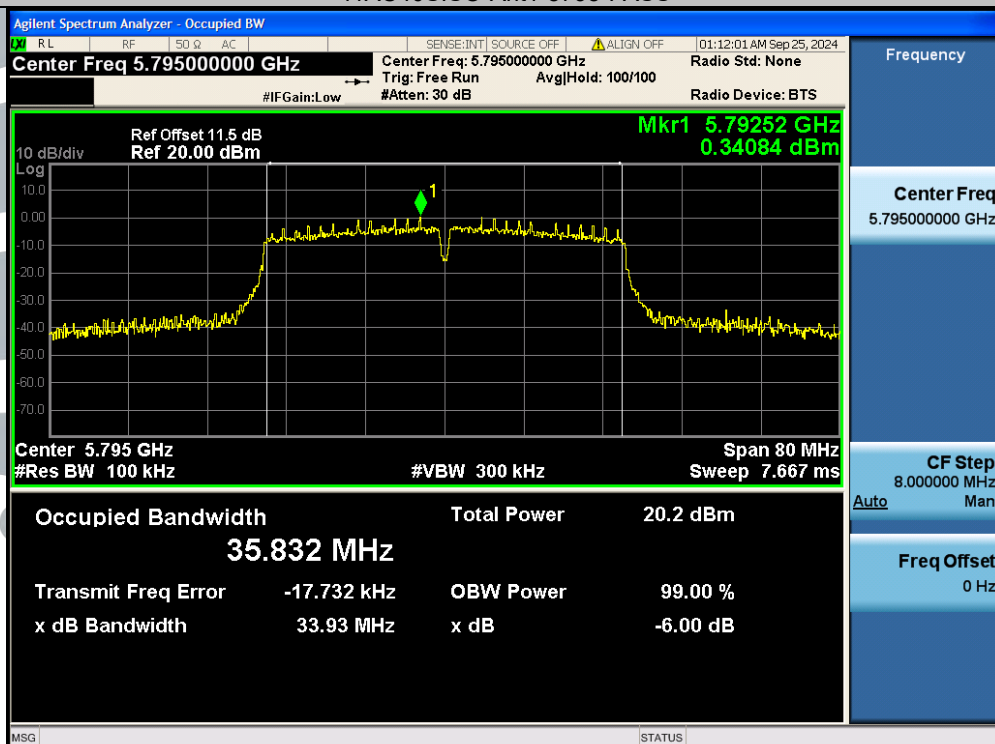
<http://www.uttlab.com>

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## 11AC40SISO-Ant1-5755-PASS



## 11AC40SISO-Ant1-5795-PASS



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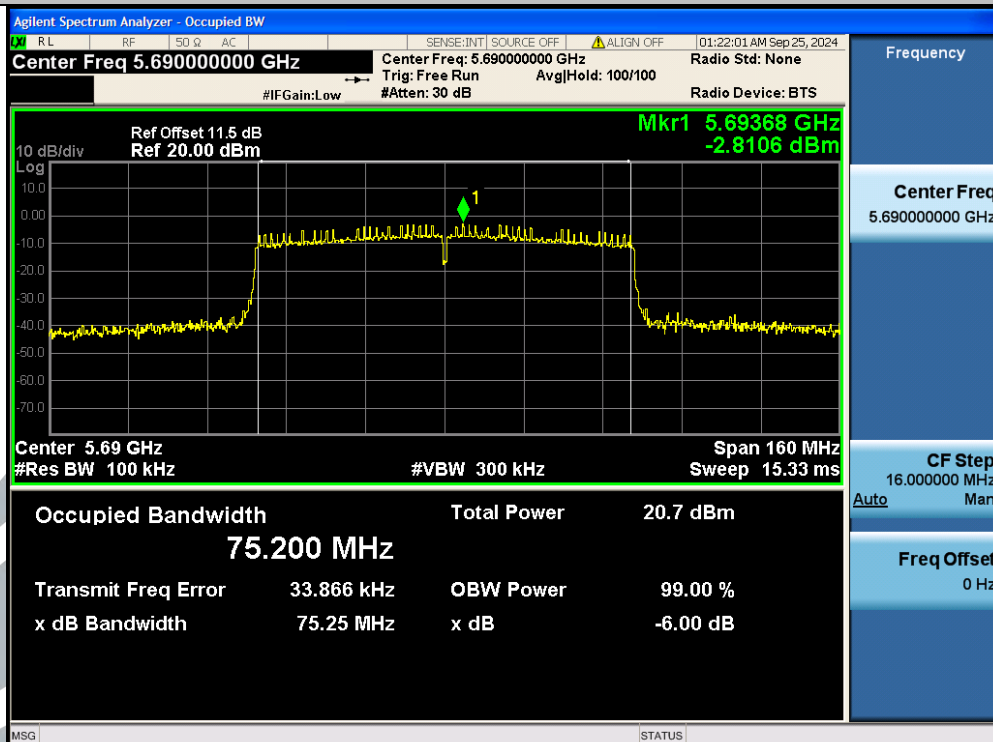
Fax: +86-755-28230886

E-mail: info@uttlab.com

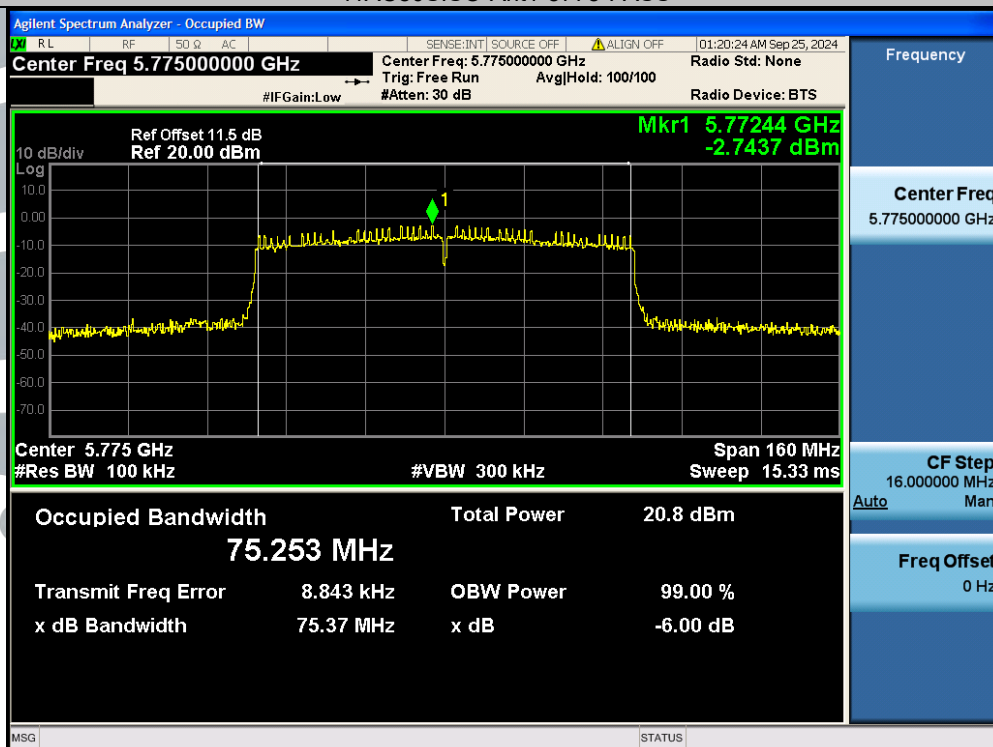
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.2

## 11AC80SISO-Ant1-5690



## 11AC80SISO-Ant1-5775-PASS



## Shenzhen UnionTrust Quality and Technology Co., Ltd.

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Fax: +86-755-28230886

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## A.4 PEAK POWER SPECTRAL DENSITY

For U-NII-1, U-NII-2A, U-NII-2C band

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 3.11             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5220           | 2.95             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5240           | 3.64             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5260           | 3.72             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5300           | 4.01             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5320           | 4.27             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5500           | 3.87             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5600           | 3.70             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5700           | 3.61             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5720 UNII-2C   | 0.82             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5720 UNII-3    | -1.41            | ≤30.00         | PASS    |
| 11A        | Ant1    | 5745           | 0.75             | ≤30.00         | PASS    |
| 11A        | Ant1    | 5785           | 0.68             | ≤30.00         | PASS    |
| 11A        | Ant1    | 5825           | 0.54             | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | 3.10             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5220           | 3.41             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5240           | 3.26             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5260           | 3.27             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5300           | 3.47             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5320           | 3.63             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5500           | 3.49             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5600           | 2.67             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5700           | 2.72             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5720 UNII-2C   | 0.09             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5720 UNII-3    | -1.84            | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5745           | 0.50             | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5785           | 0.35             | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5825           | 0.66             | ≤30.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | -0.16            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5230           | 0.00             | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5270           | -0.02            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5310           | 0.32             | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5510           | -4.10            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5590           | -4.34            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5670           | -4.43            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5710 UNII-2C   | -7.02            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5710 UNII-3    | -10.60           | ≤30.00         | PASS    |
| 11N40SISO  | Ant1    | 5755           | -2.61            | ≤30.00         | PASS    |
| 11N40SISO  | Ant1    | 5795           | -2.55            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | 2.71             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5220           | 2.55             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5240           | 2.98             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5260           | 2.85             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5300           | 2.85             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5320           | 3.23             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5500           | 3.31             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5600           | 3.27             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5700           | 2.39             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5720 UNII-2C   | 0.18             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5720 UNII-3    | -1.79            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5745           | 0.12             | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5785           | 0.52             | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5825           | 0.25             | ≤30.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | -0.61            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5230           | -0.92            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5270           | -0.68            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5310           | -0.31            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5510           | -4.45            | ≤11.00         | PASS    |

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

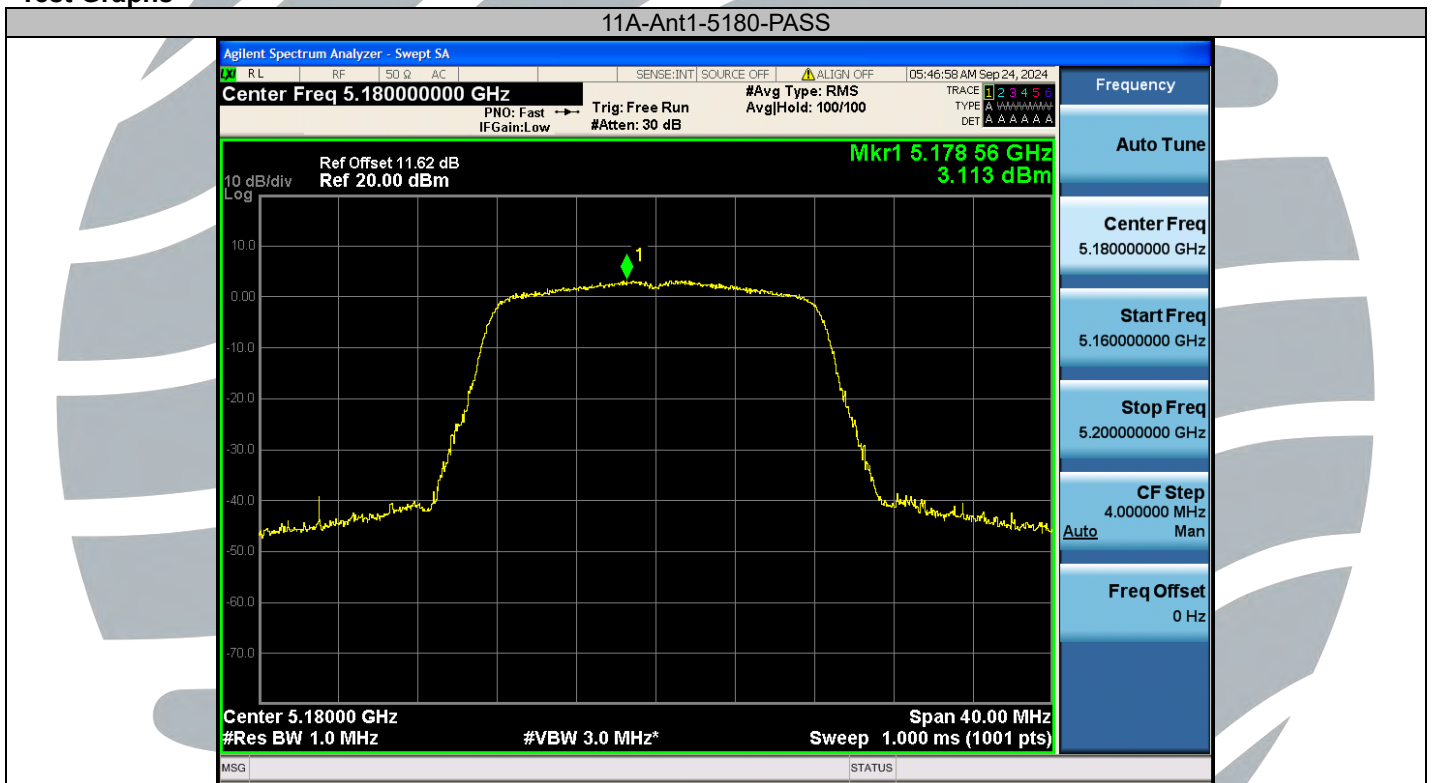
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|            |      |              |        |        |      |
|------------|------|--------------|--------|--------|------|
| 11AC40SISO | Ant1 | 5590         | 0.09   | ≤11.00 | PASS |
| 11AC40SISO | Ant1 | 5670         | -4.34  | ≤11.00 | PASS |
| 11AC40SISO | Ant1 | 5710 UNII-2C | -6.97  | ≤11.00 | PASS |
| 11AC40SISO | Ant1 | 5710 UNII-3  | -10.71 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5755         | -2.62  | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5795         | -2.41  | ≤30.00 | PASS |
| 11AC80SISO | Ant1 | 5210         | -3.02  | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5290         | -2.72  | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5530         | -5.24  | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5610         | -3.02  | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5690 UNII-2C | -5.95  | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5690 UNII-3  | -9.56  | ≤30.00 | PASS |
| 11AC80SISO | Ant1 | 5775         | -5.71  | ≤30.00 | PASS |

Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

### Test Graphs



### Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

Tel: +86-755-28230888

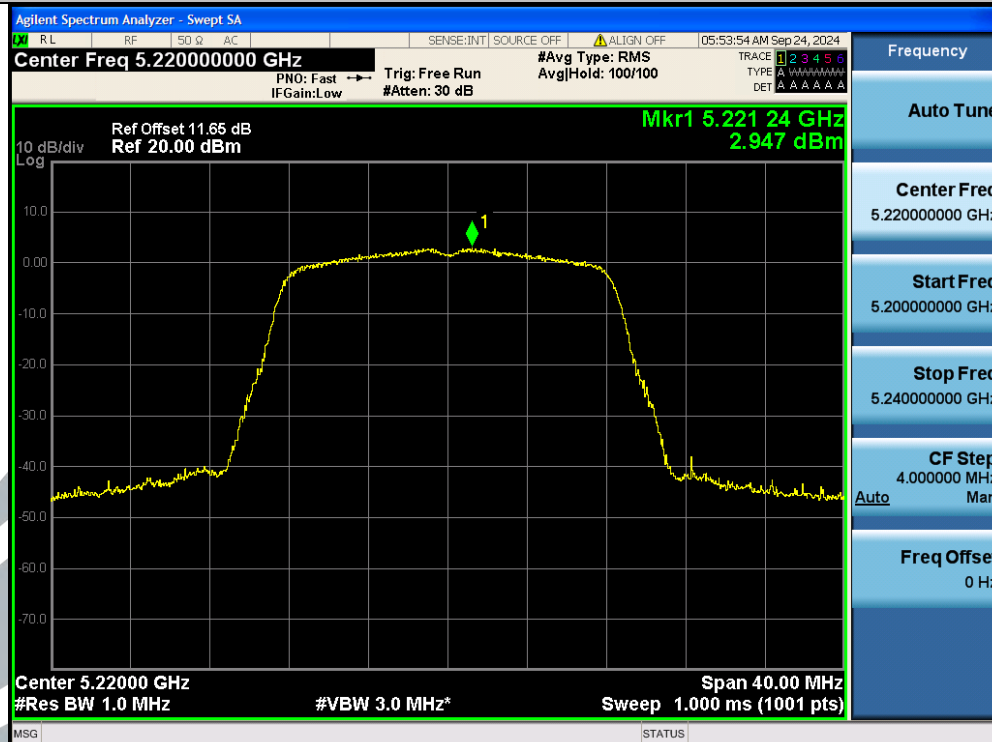
Fax: +86-755-28230886

E-mail: [info@uttlab.com](mailto:info@uttlab.com)

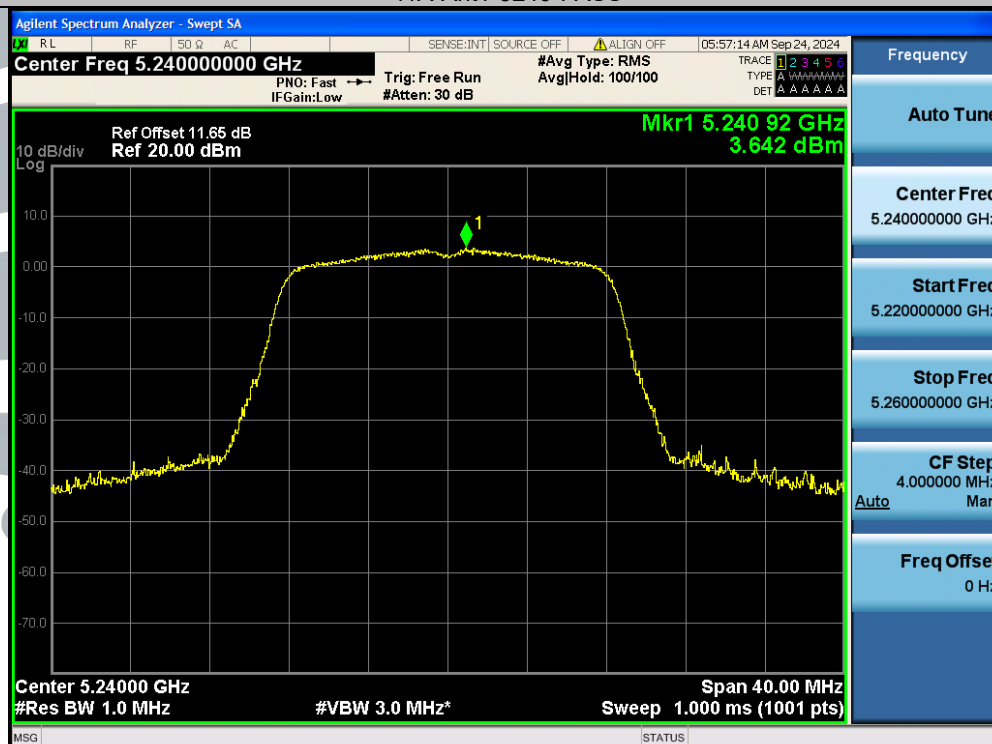
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## 11A-Ant1-5220-PASS



## 11A-Ant1-5240-PASS

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Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

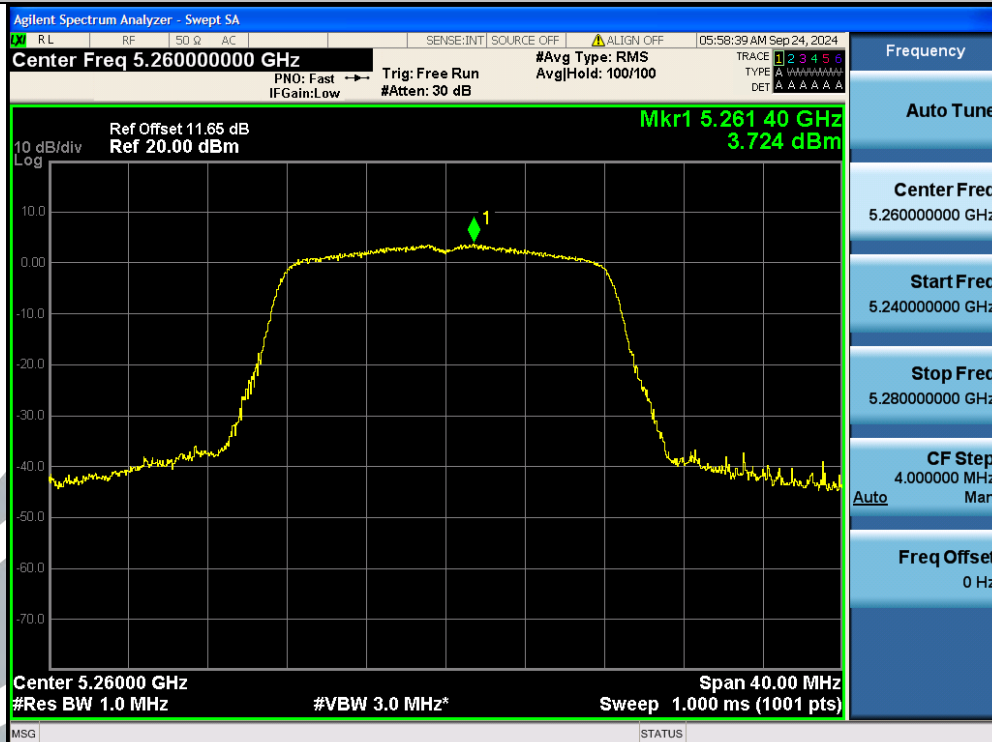
Tel: +86-755-28230888

Fax: +86-755-28230886

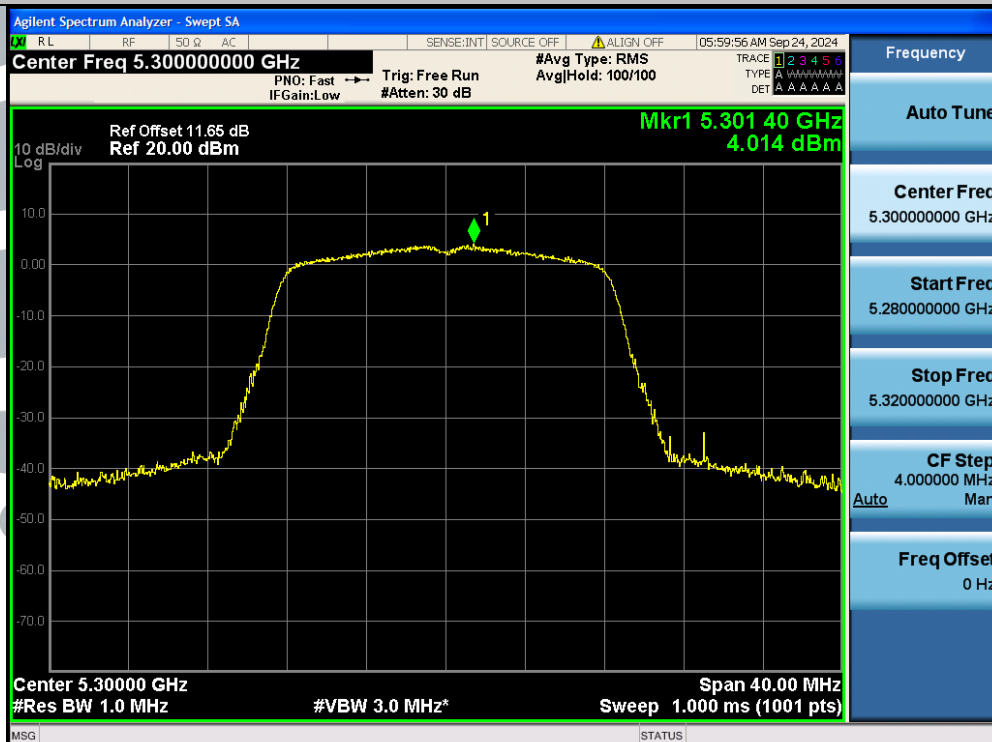
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## 11A-Ant1-5260-PASS



## 11A-Ant1-5300-PASS



### Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: [info@uttlab.com](mailto:info@uttlab.com)

<http://www.uttlab.com>

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