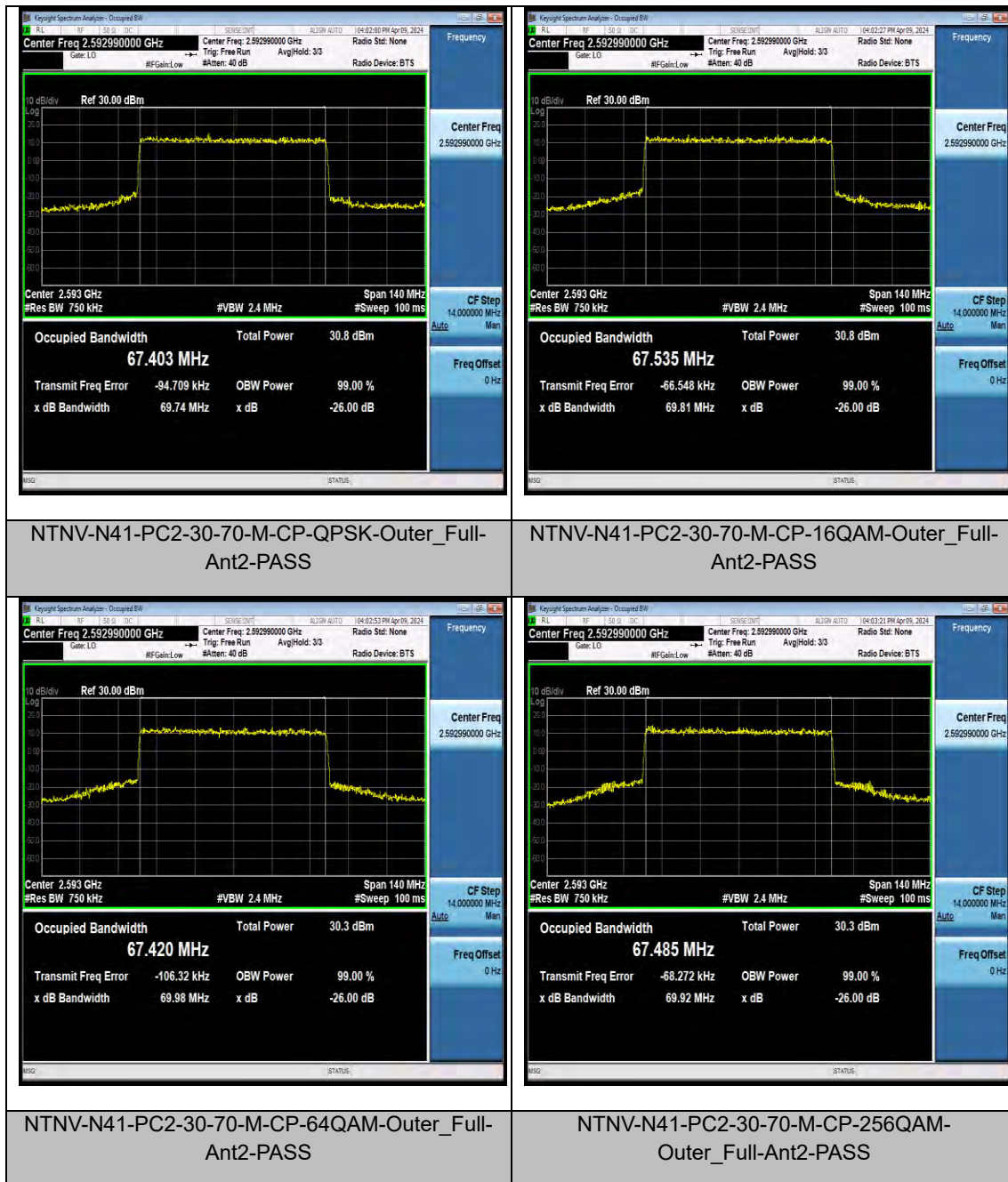




BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

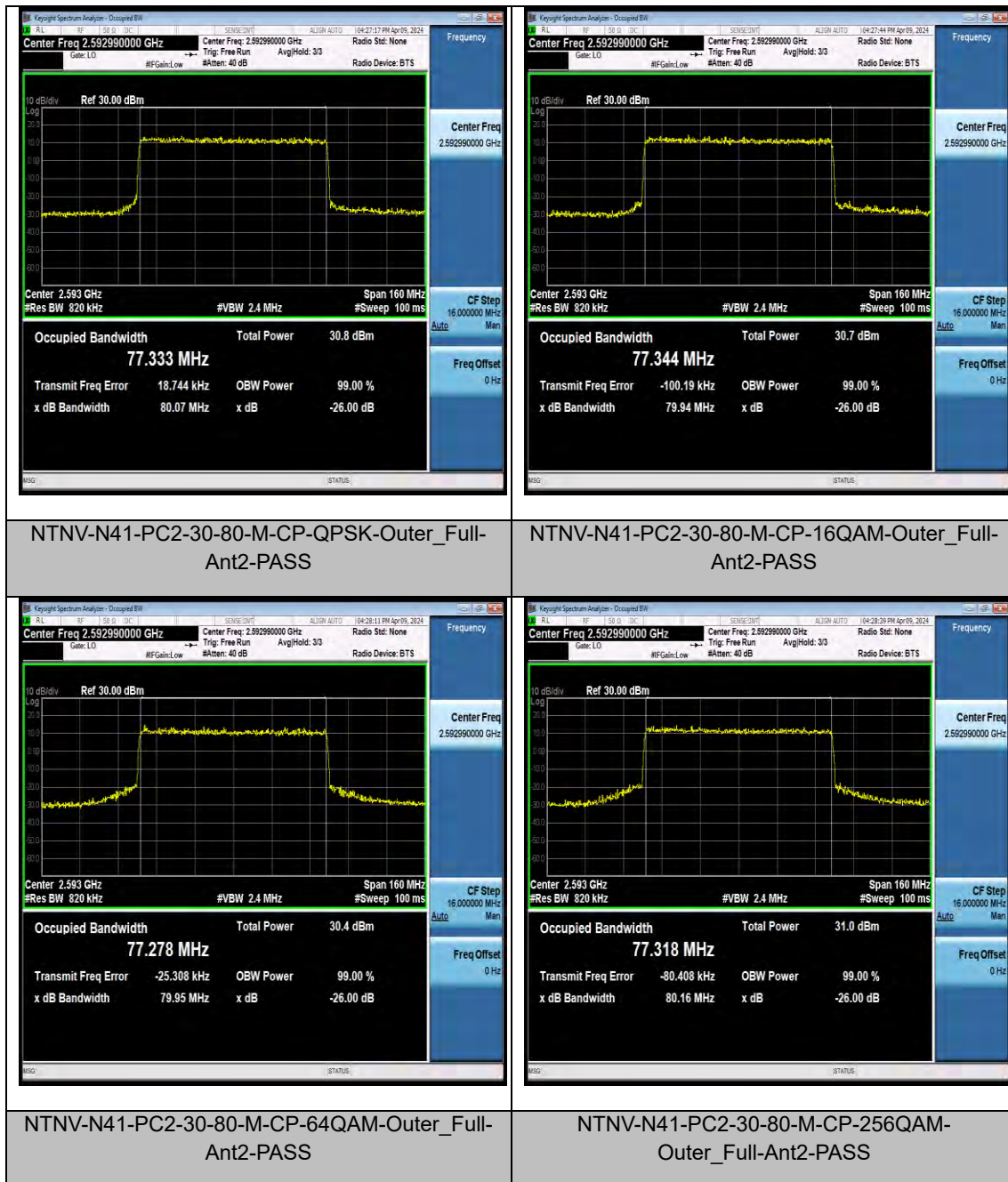
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

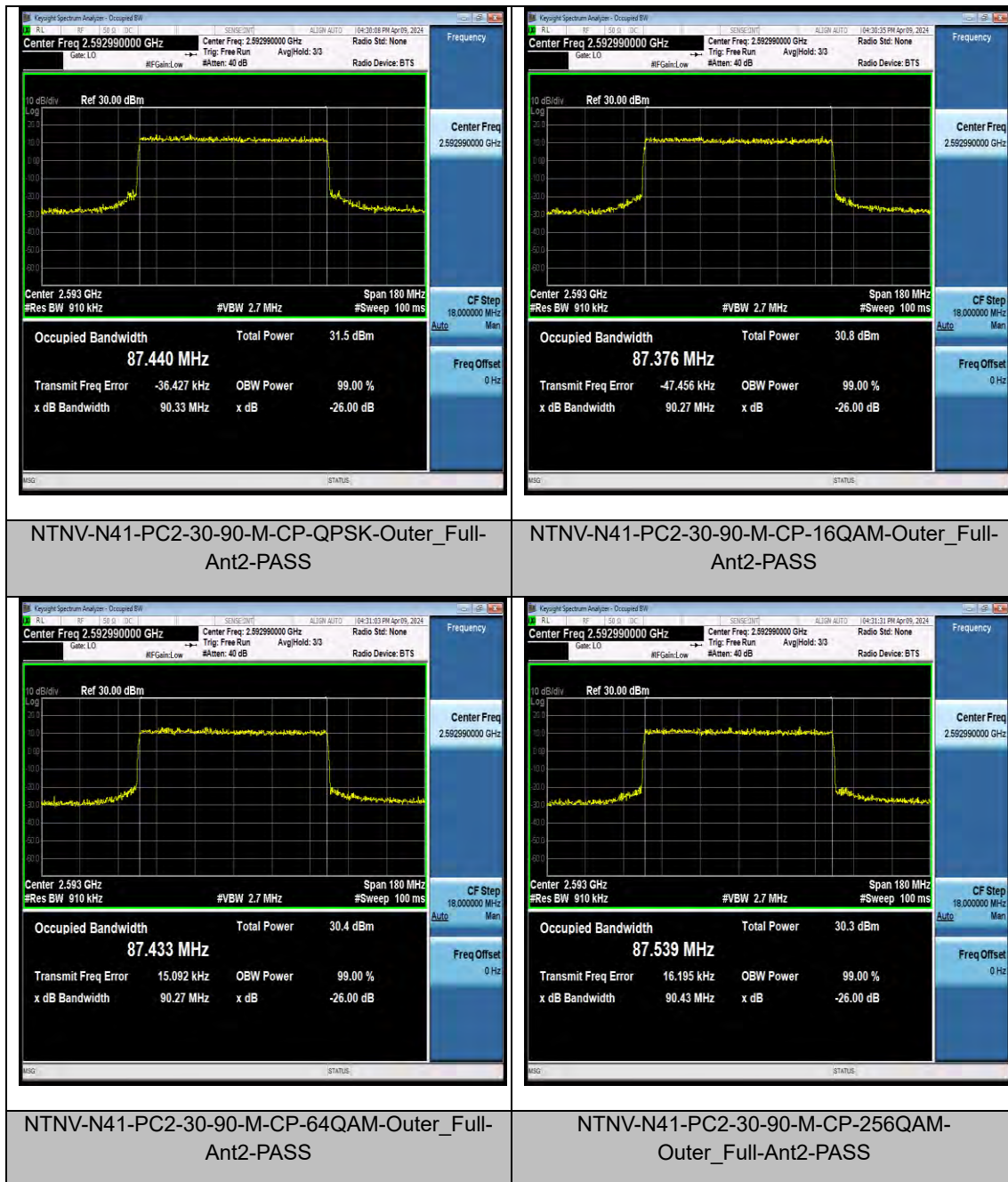
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

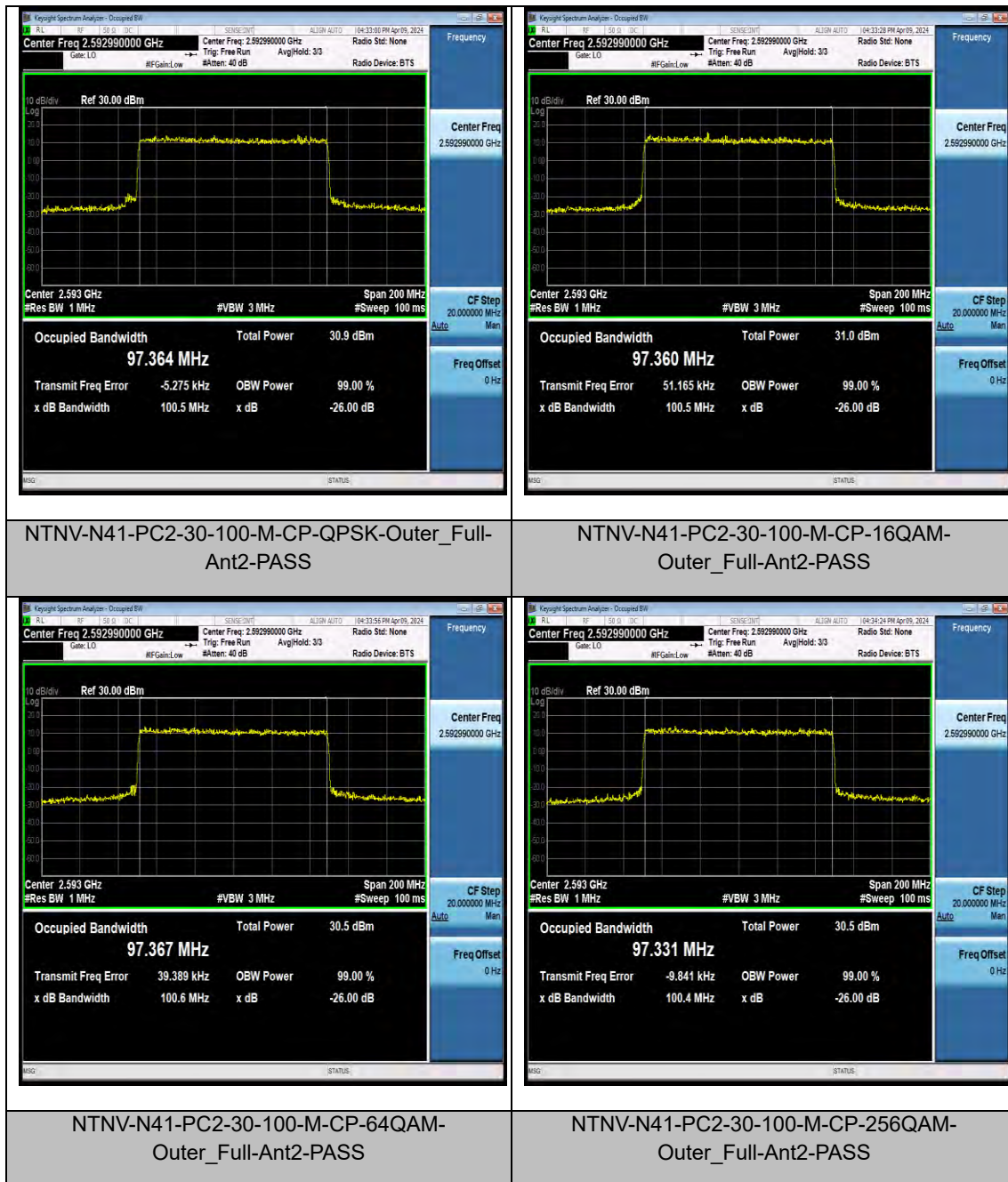
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

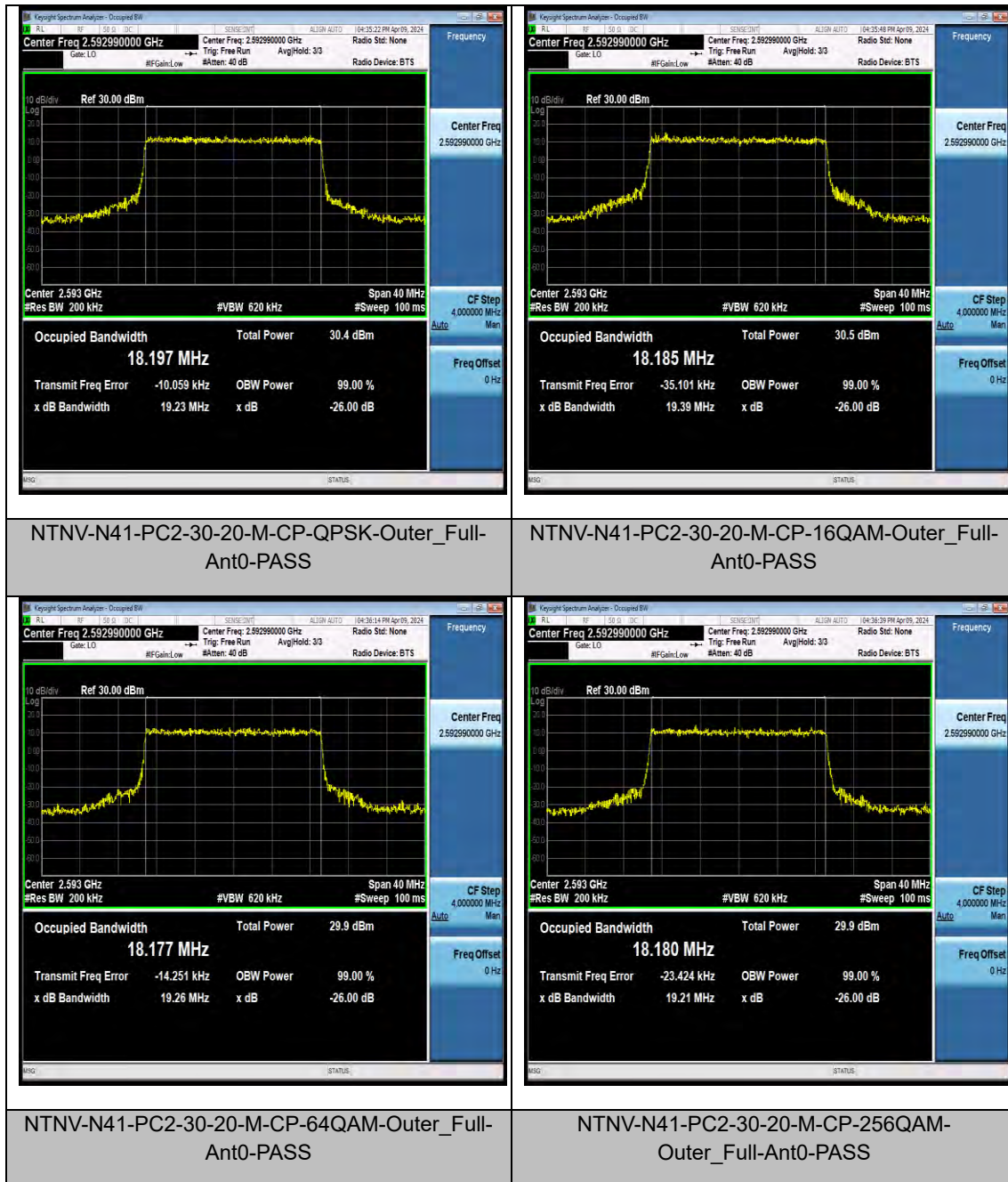
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11

## Test Graphs-Ant0



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

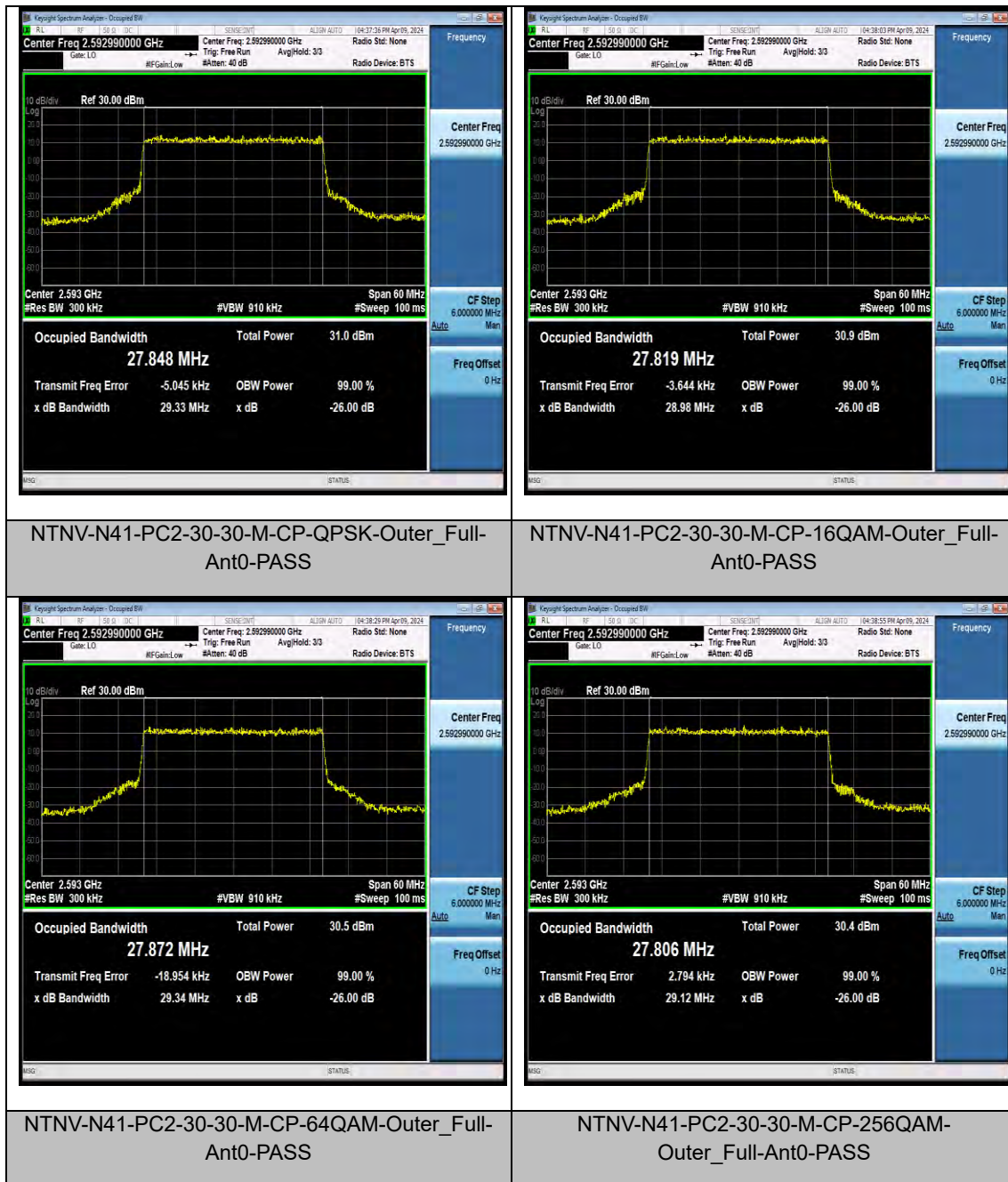
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

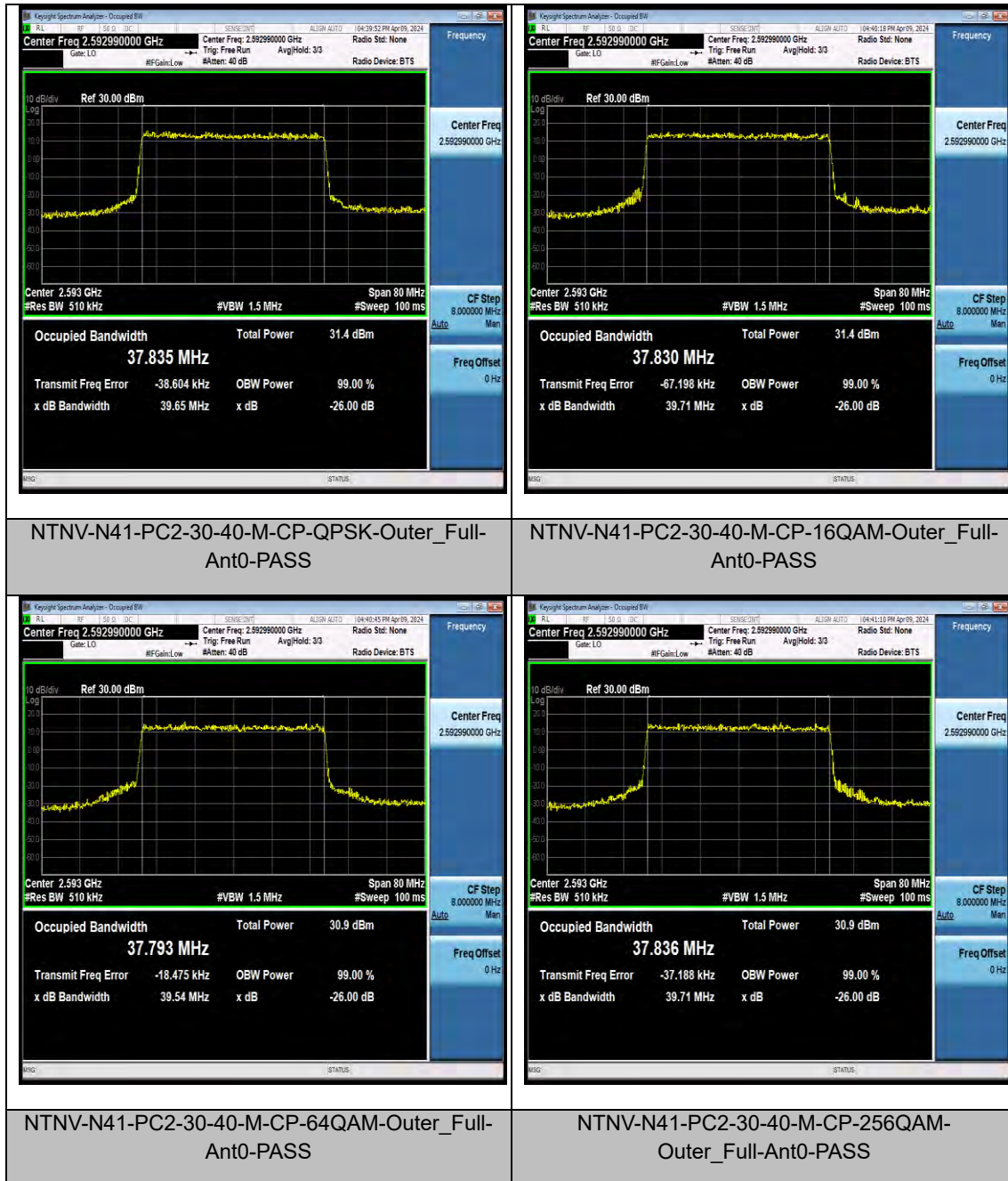
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

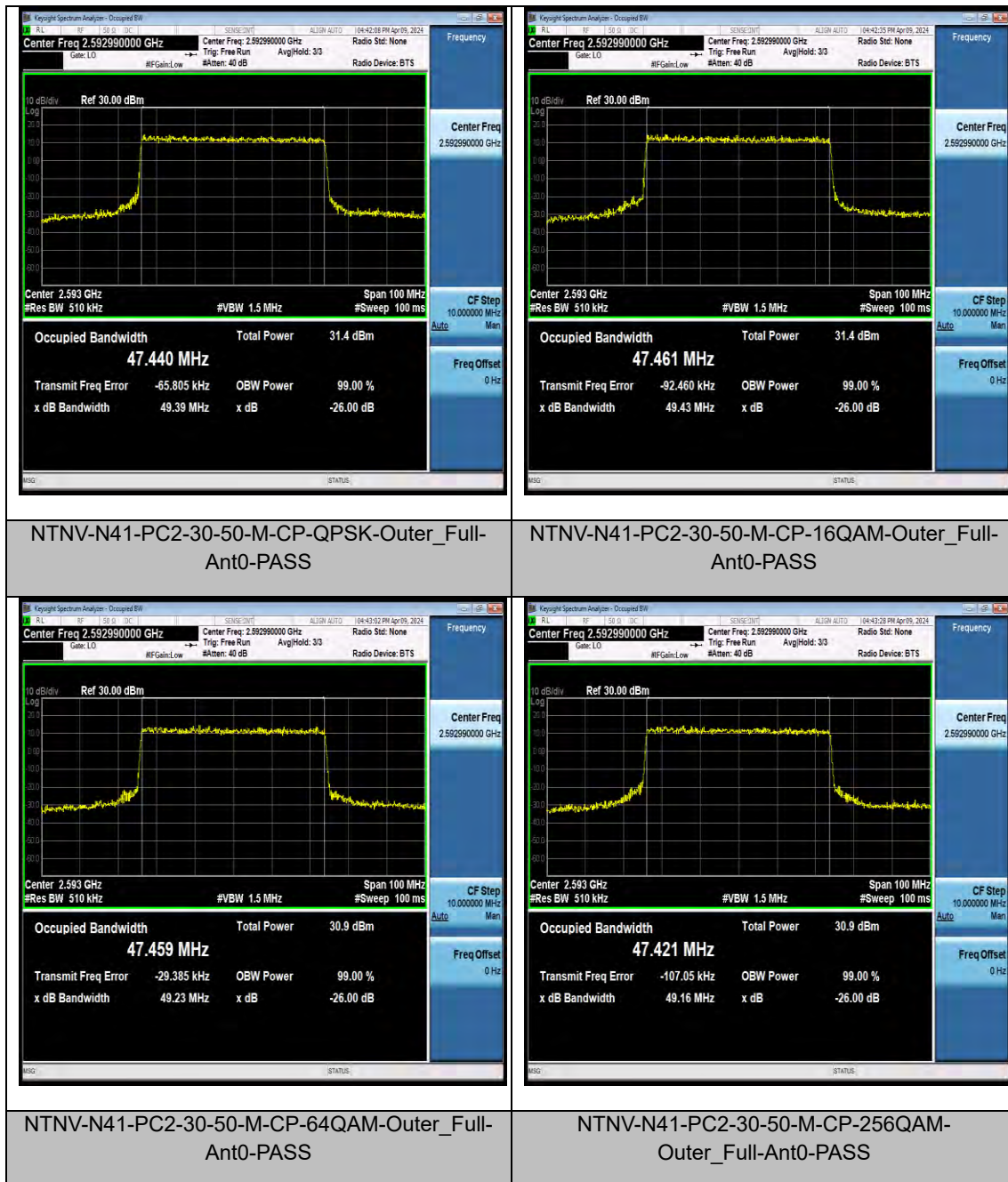
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

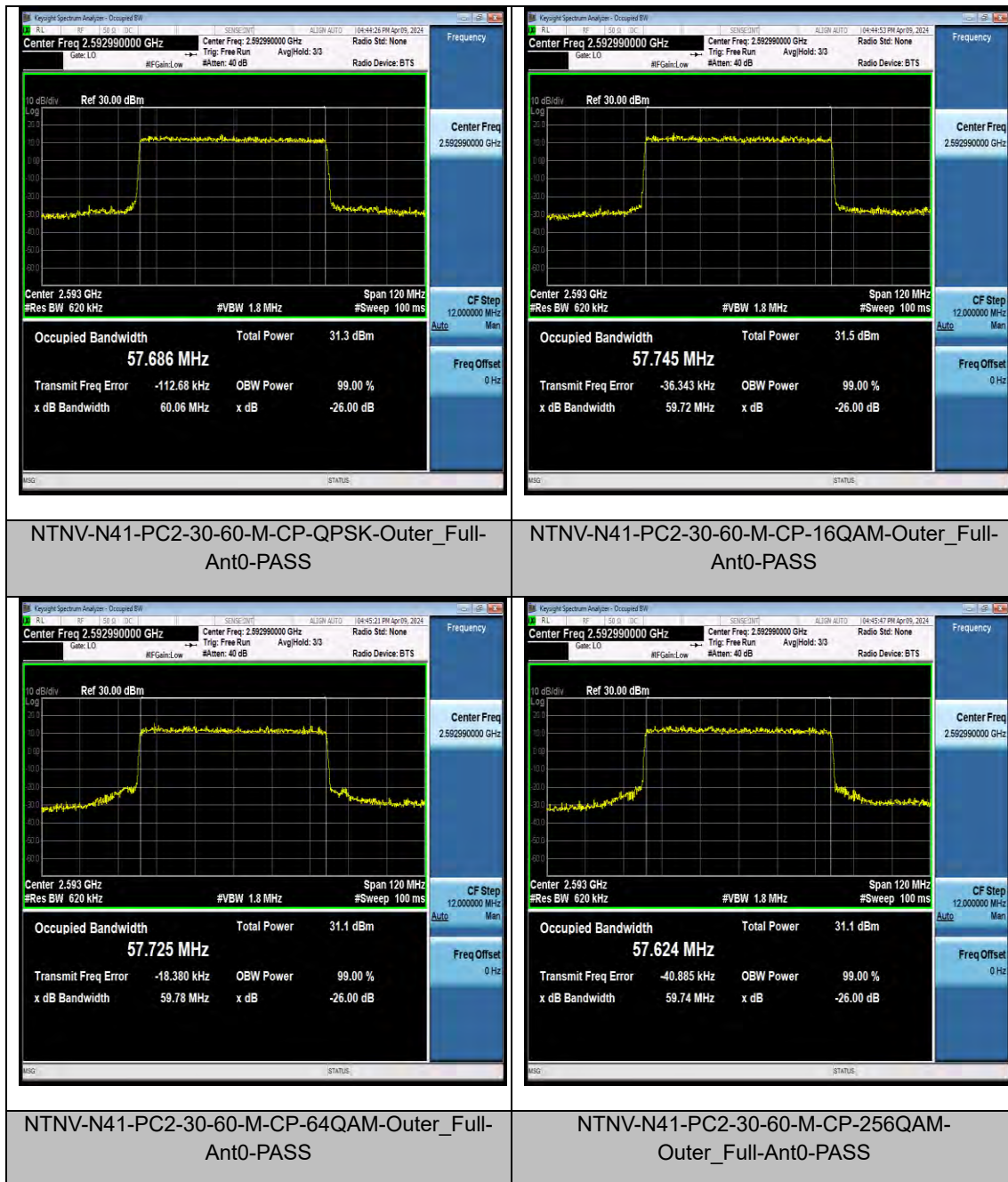
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

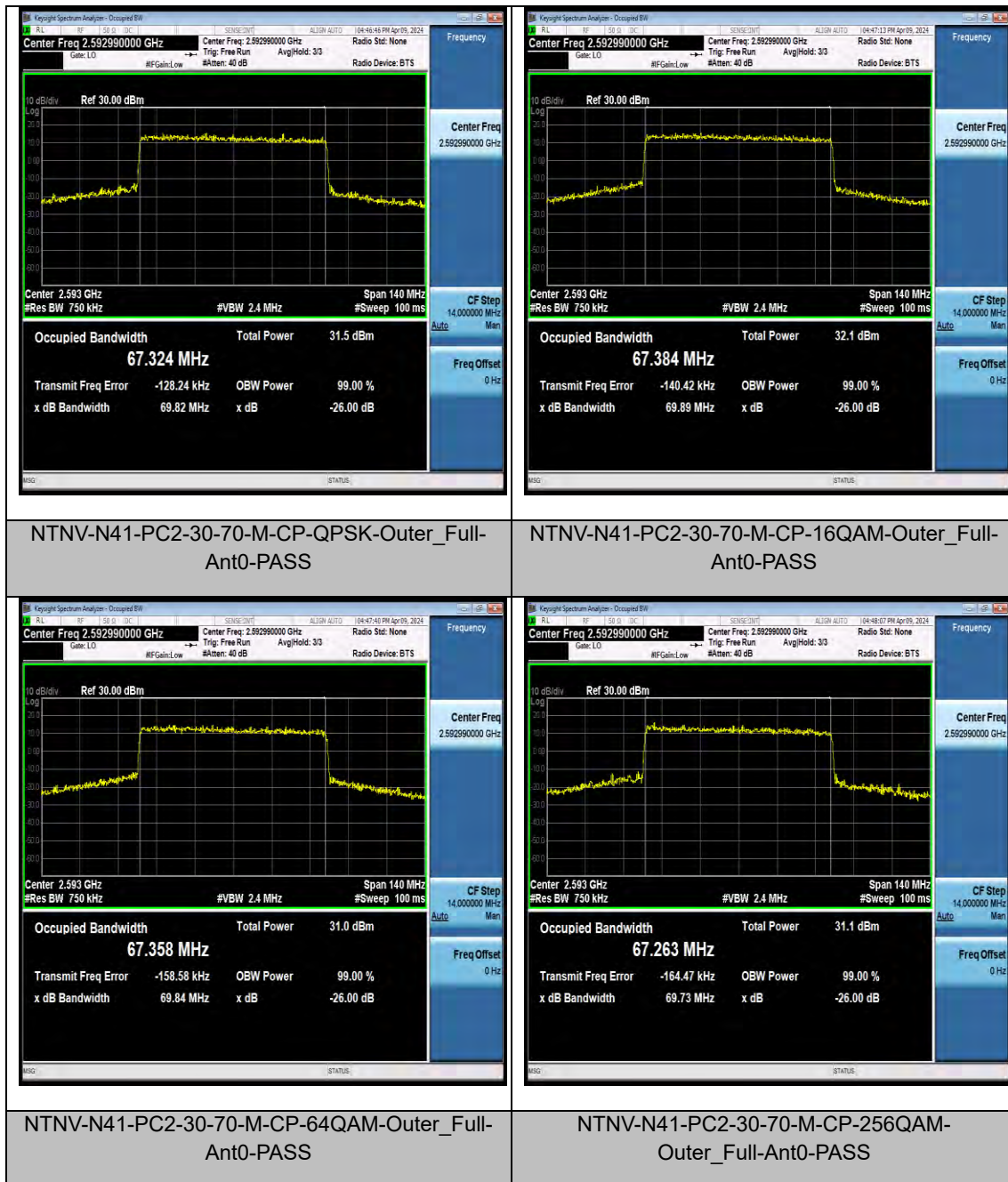
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

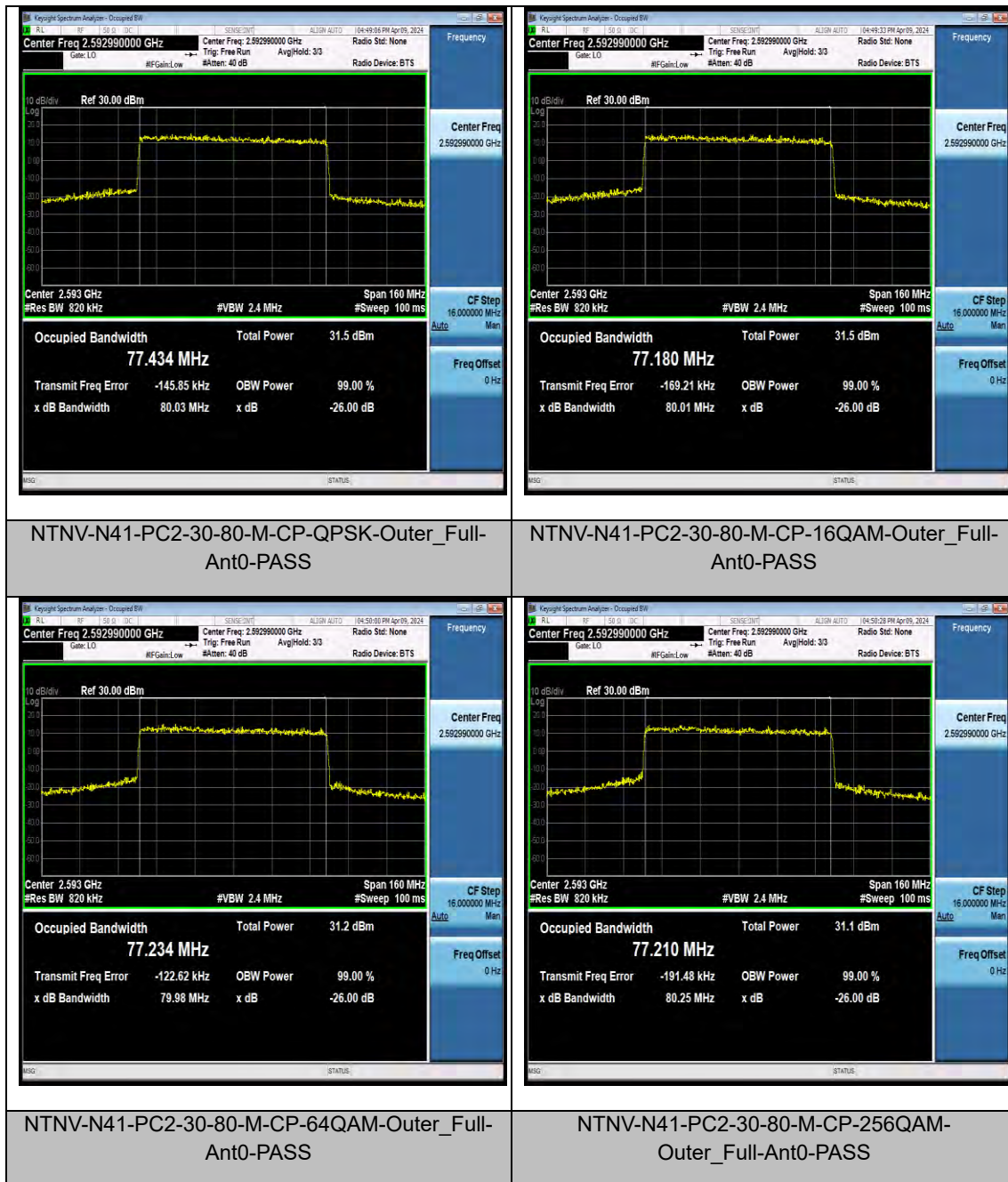
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

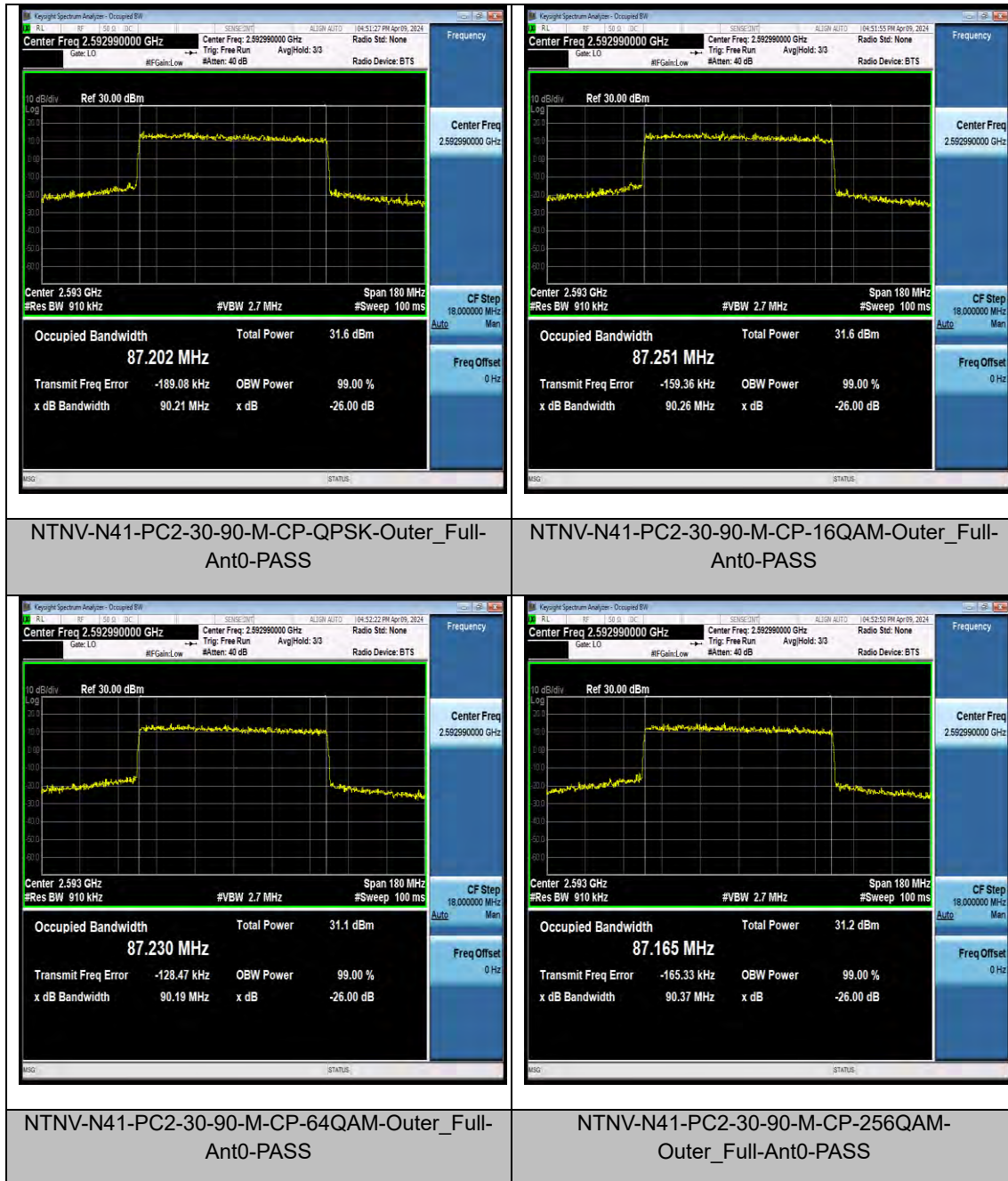
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

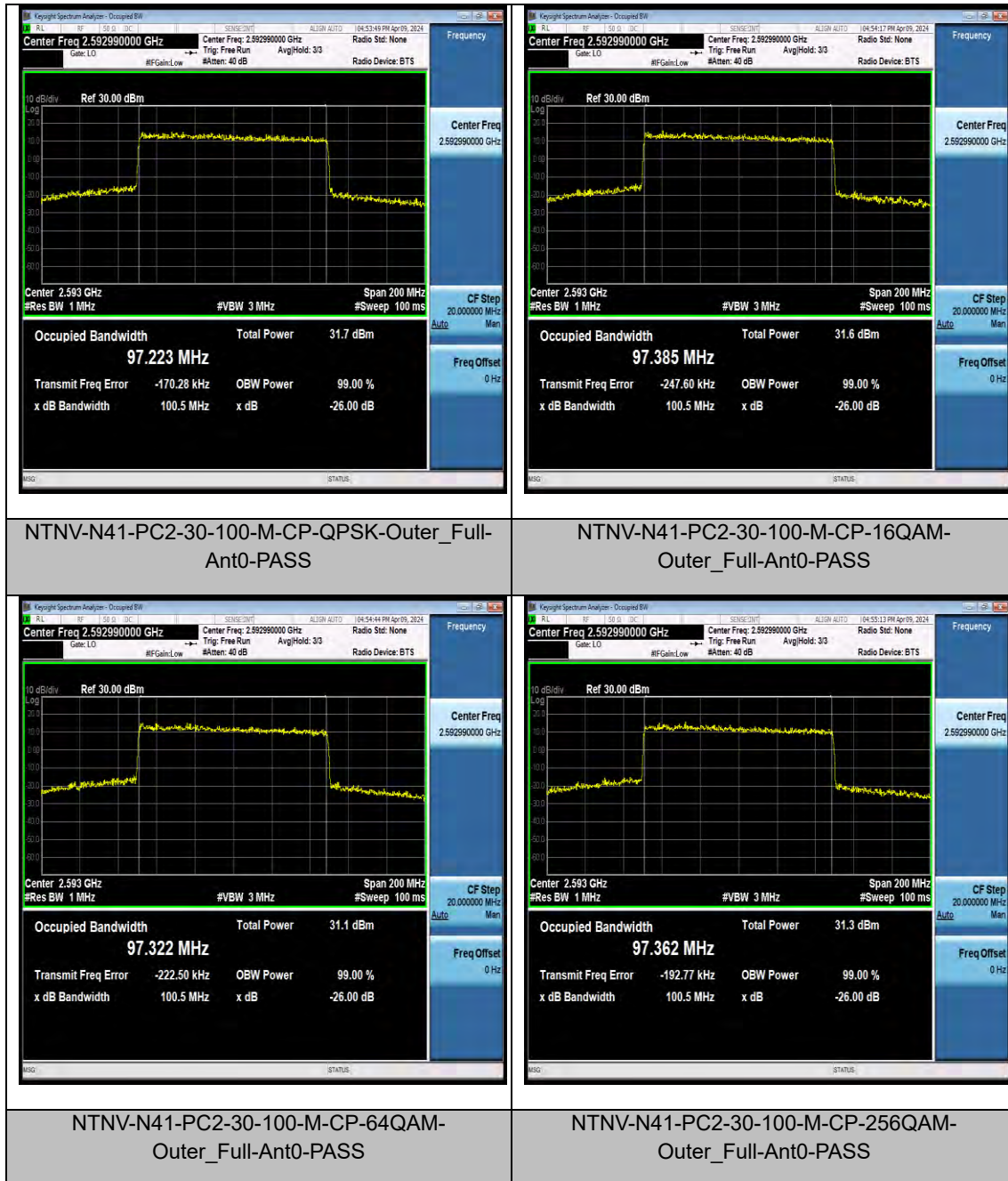
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



## Band Edge for MIMO

### Test Result-Ant2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config      | Result | Verdict |
|------|-----|-----------|------------|---------|----------------|--------|---------|
| N41  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | -37.24 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | -41.45 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | H       | Outer_Full     | -39.42 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Right | -45.79 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | L       | Outer_Full     | -37.74 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | L       | Edge_1RB_Left  | -28.67 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | H       | Outer_Full     | -37.78 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | H       | Edge_1RB_Right | -17.53 | PASS    |
| N41  | 30  | 100       | CP-QPSK    | L       | Outer_Full     | -34.35 | PASS    |
| N41  | 30  | 100       | CP-QPSK    | L       | Edge_1RB_Left  | -15.37 | PASS    |
| N41  | 30  | 100       | CP-QPSK    | H       | Outer_Full     | -36.58 | PASS    |
| N41  | 30  | 100       | CP-QPSK    | H       | Edge_1RB_Right | -17.65 | PASS    |

### Test Result-Ant0

| Band | SCS | Bandwidth | Modulation | Channel | RB Config      | Result | Verdict |
|------|-----|-----------|------------|---------|----------------|--------|---------|
| N41  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | -36.66 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | -30.65 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | H       | Outer_Full     | -38.57 | PASS    |
| N41  | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Right | -30.34 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | L       | Outer_Full     | -32.42 | PASS    |
| N41  | 30  | 60        | CP-QPSK    | L       | Edge_1RB_Left  | -27.59 | PASS    |

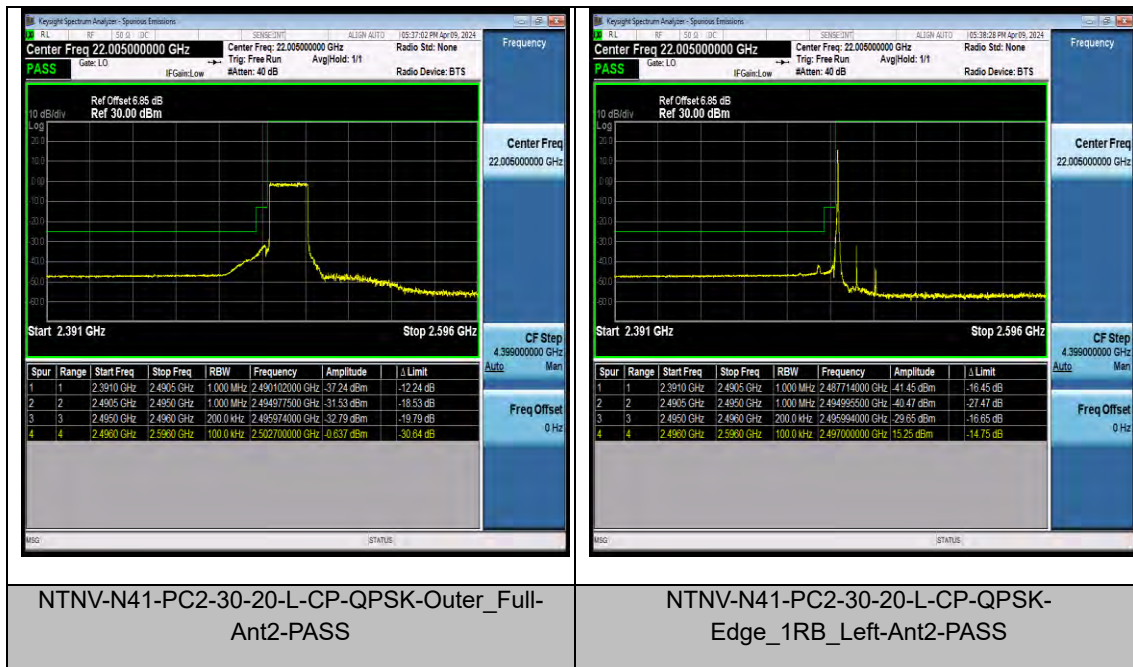


**BUREAU  
VERITAS**

Reference No.: W7L-231218W001RF11

|     |    |     |         |   |                    |        |      |
|-----|----|-----|---------|---|--------------------|--------|------|
| N41 | 30 | 60  | CP-QPSK | H | Outer_Full         | -35.44 | PASS |
| N41 | 30 | 60  | CP-QPSK | H | Edge_1RB_<br>Right | -16.40 | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Outer_Full         | -33.94 | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Edge_1RB_<br>Left  | -15.24 | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Outer_Full         | -33.87 | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Edge_1RB_<br>Right | -16.77 | PASS |

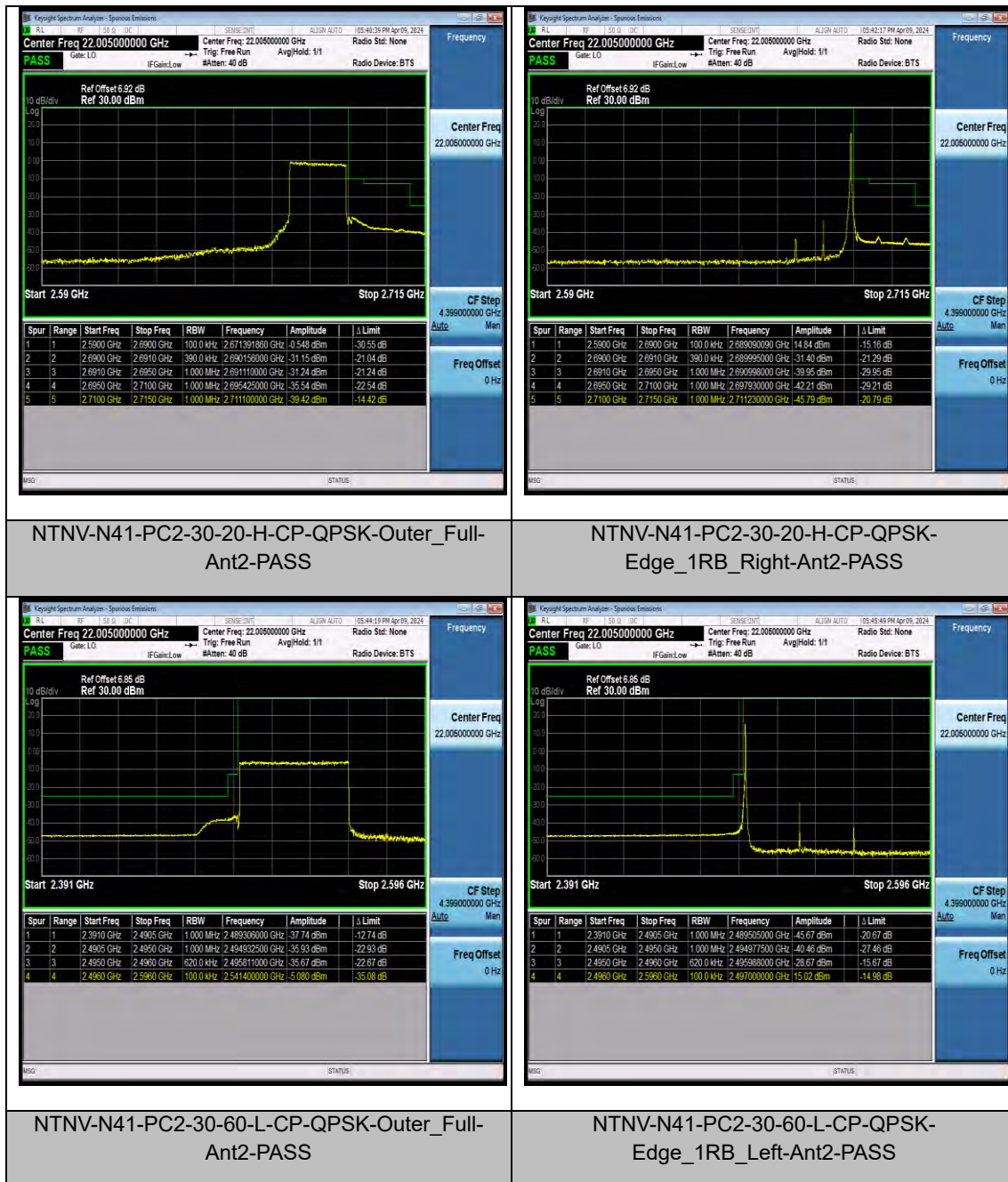
## Test Graphs-Ant2





BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

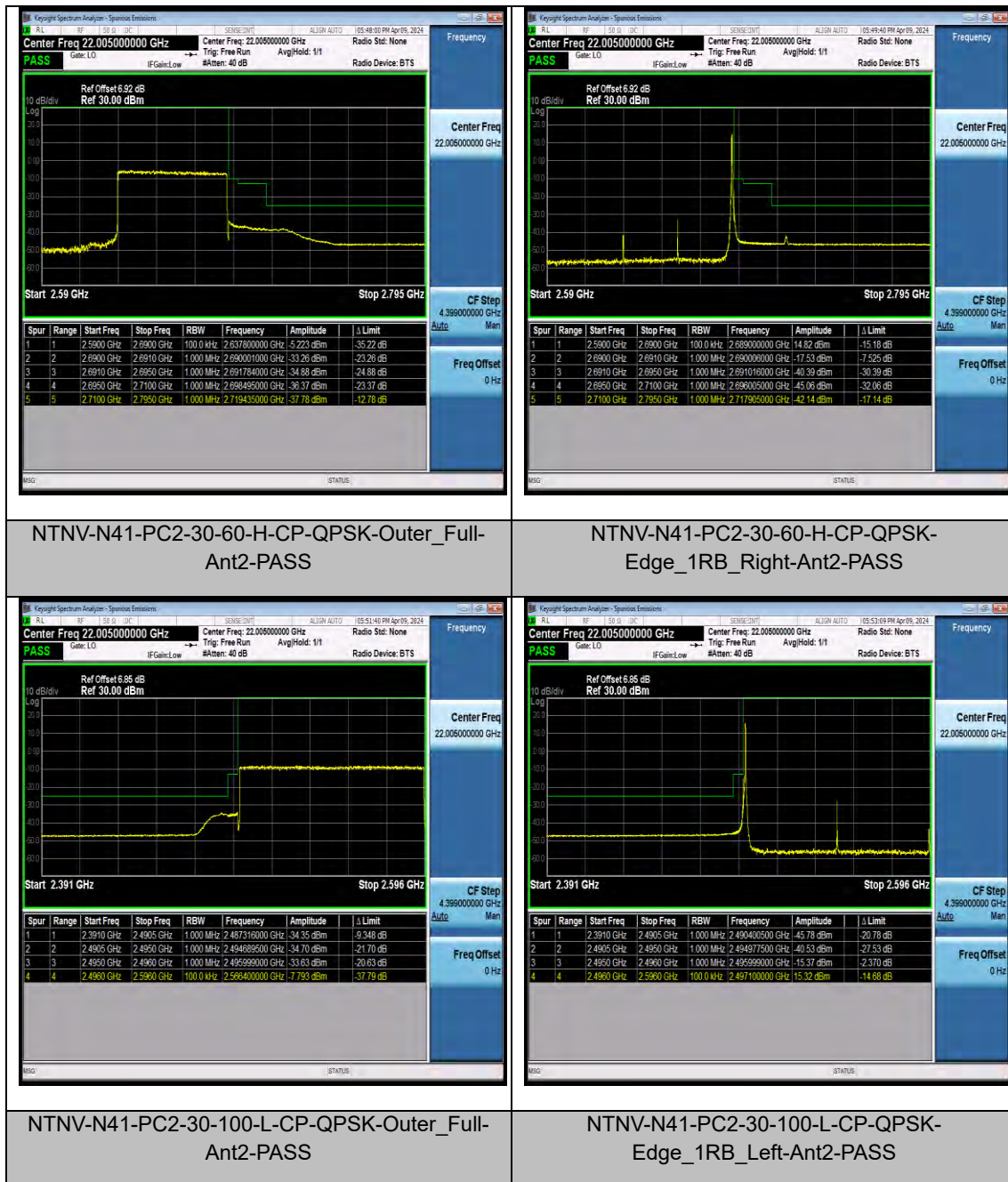
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

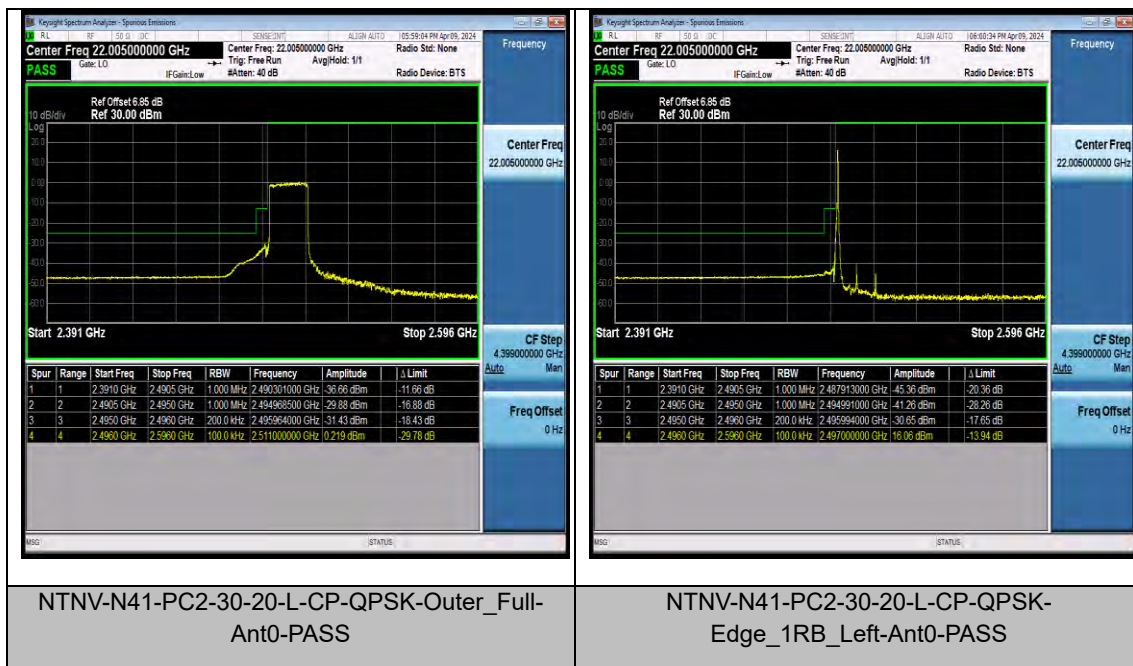


**BUREAU  
VERITAS**

Reference No.: W7L-231218W001RF11



## Test Graphs-Ant0



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

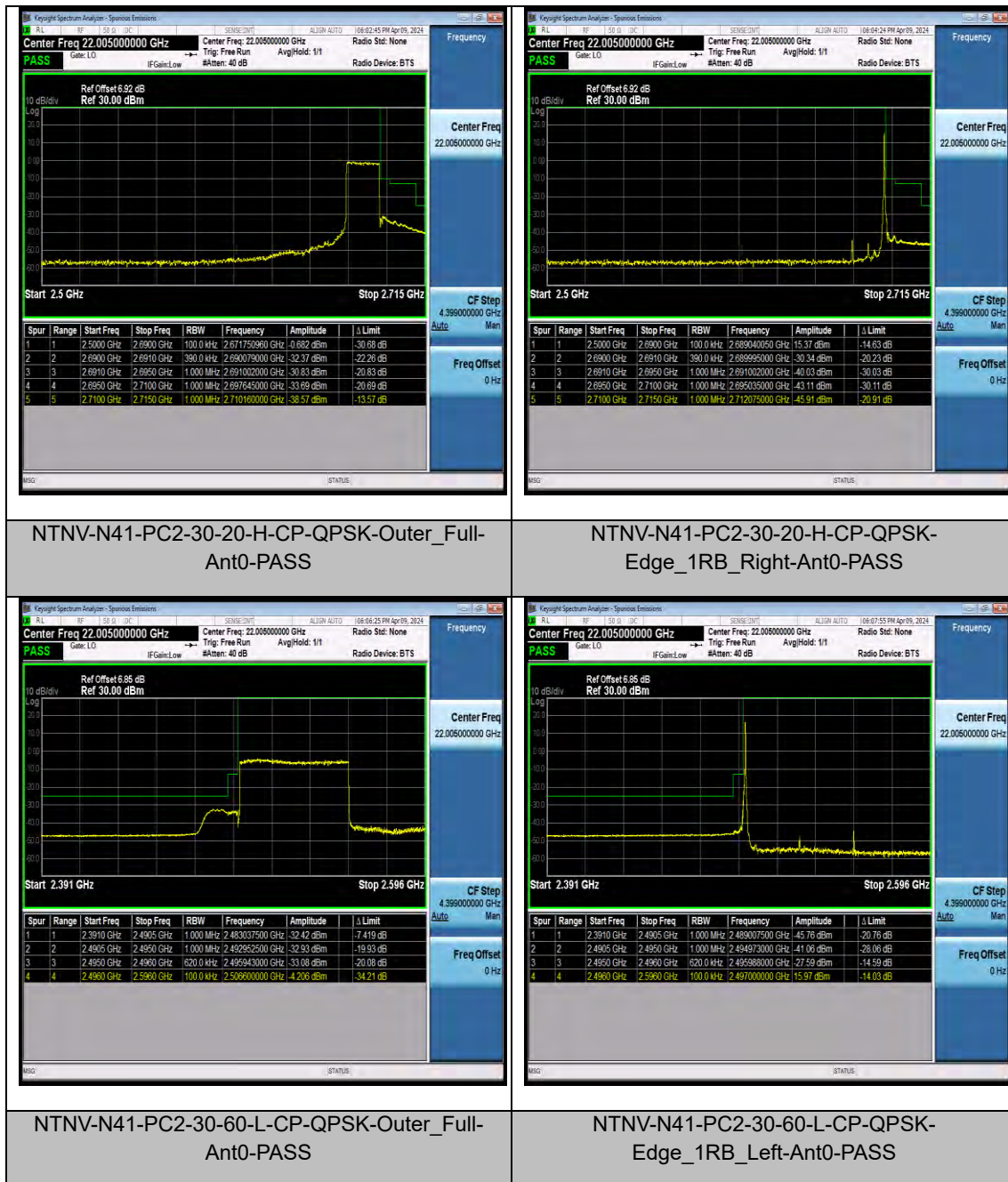
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

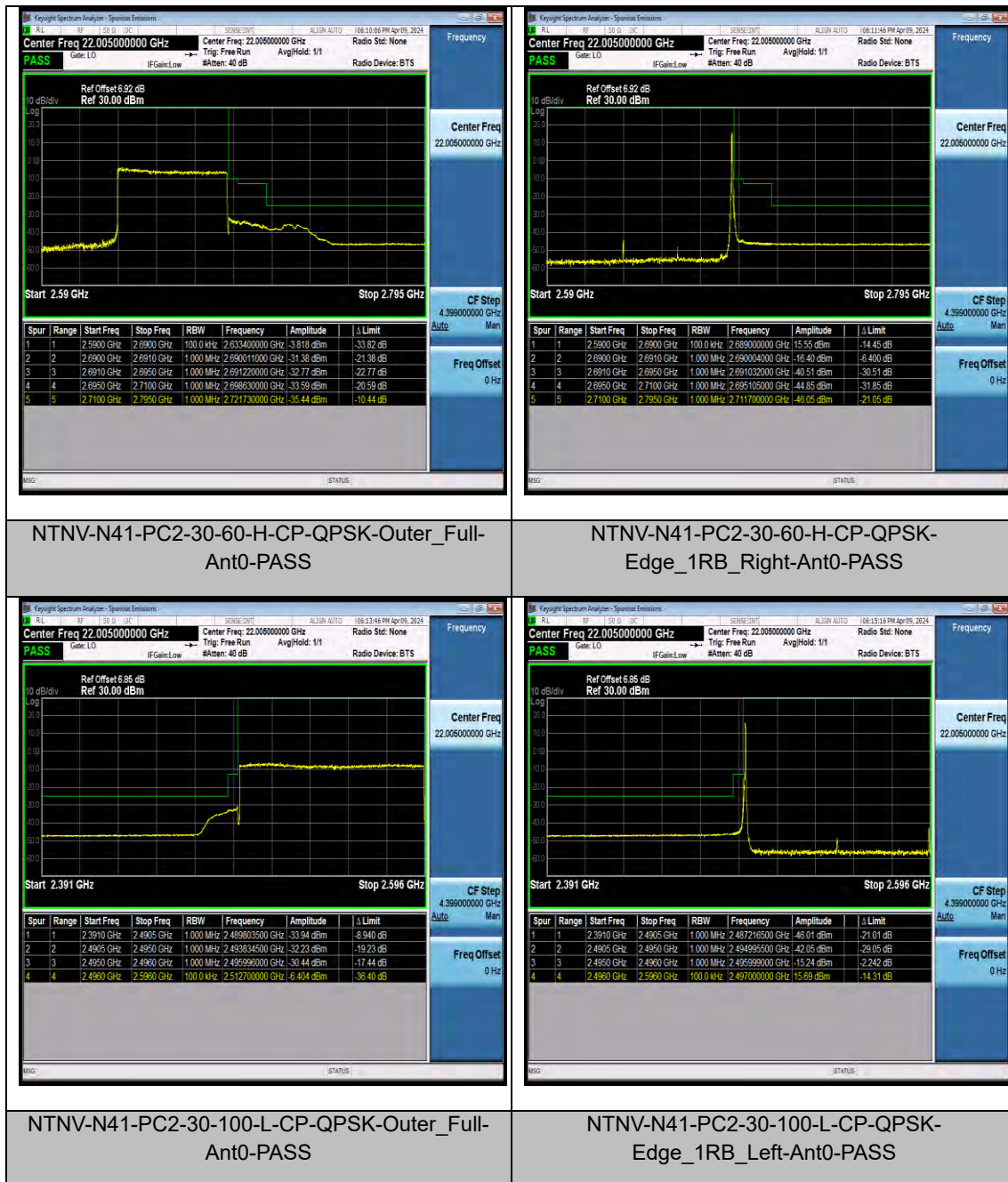
Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



BUREAU  
VERITAS

Reference No.: W7L-231218W001RF11



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)