



Reference No.: W7L-240430W002RF01

N41_UL_MIMO PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer_Full | 7.30 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | 4.90 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer_Full | 6.92 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Edge_1RB_Left | 3.96 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer_Full | 7.14 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge_1RB_Left | 4.94 | ≤13 | PASS |

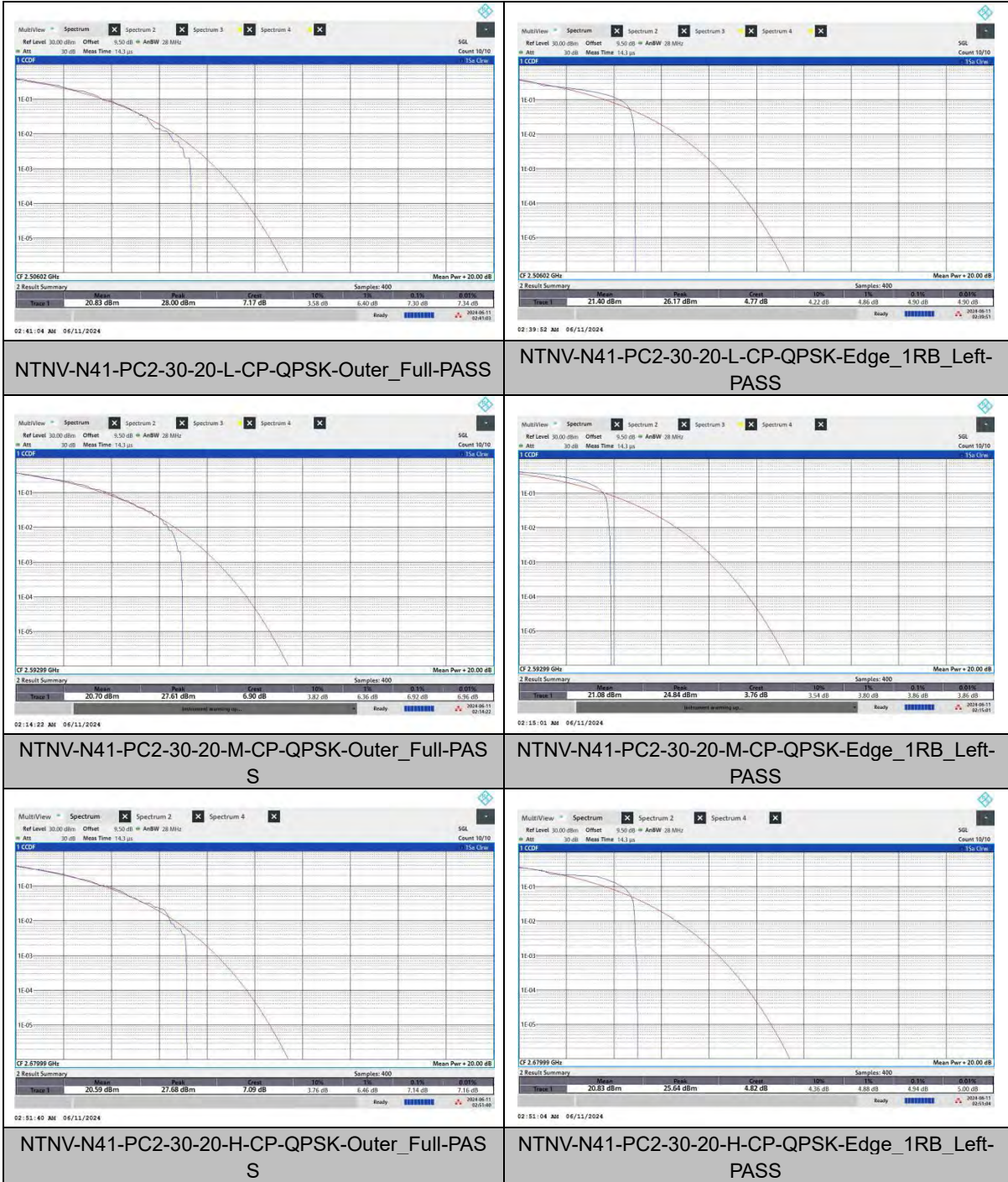
TEST RESULT-ANT1

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer_Full | 6.66 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | 4.70 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer_Full | 6.38 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Edge_1RB_Left | 4.14 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer_Full | 6.46 | ≤13 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge_1RB_Left | 4.52 | ≤13 | PASS |



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TEST GRAPHS-ANT2

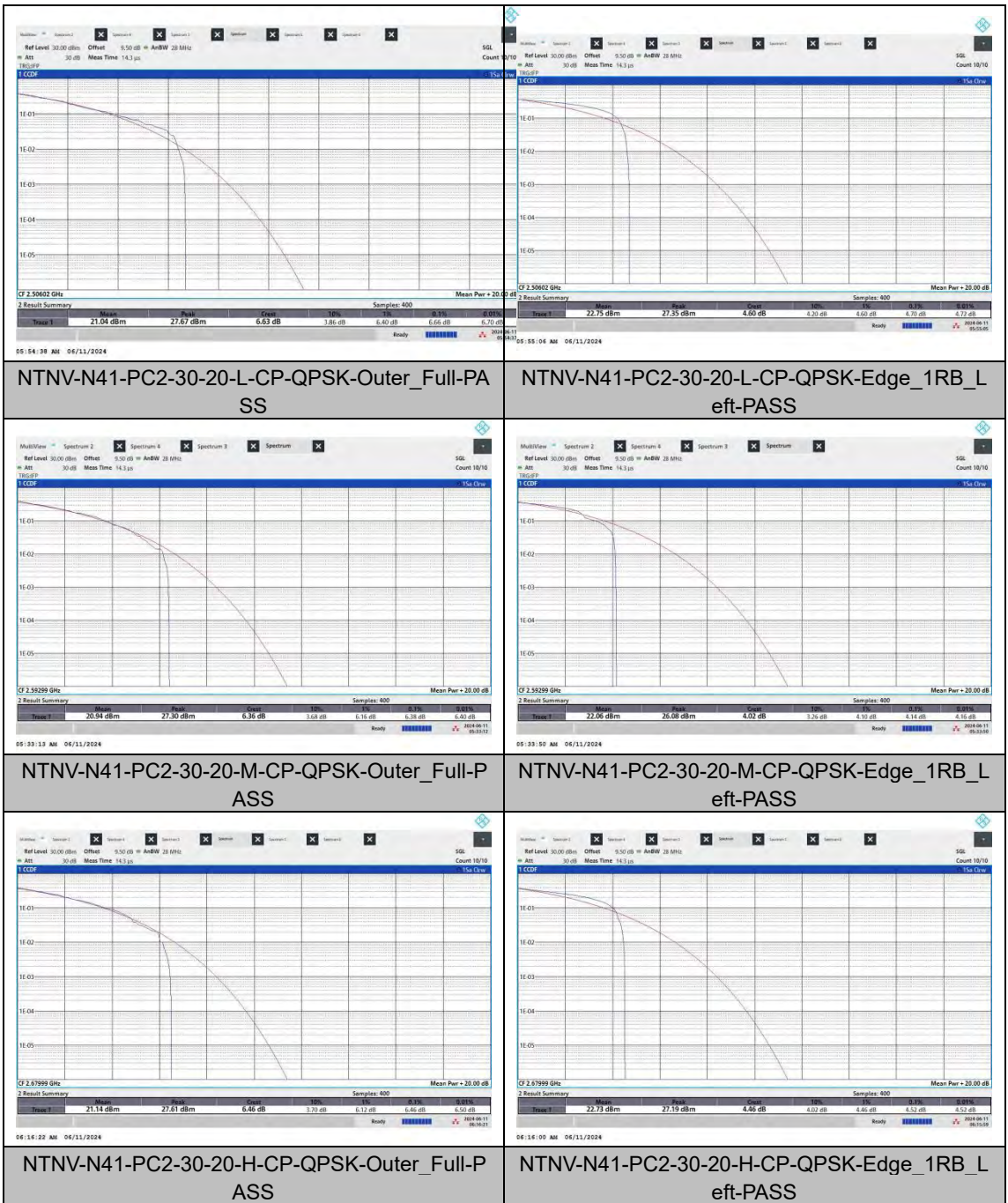




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TEST GRAPHS-ANT1





Reference No.: W7L-240430W002RF01

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR MIMOTEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|------------|---------|------------|--------------|---------------|---------|
| N41 | 30 | 20 | CP-QPSK | M | Outer_Full | 18.160 | 19.34 | PASS |
| N41 | 30 | 20 | CP-16QAM | M | Outer_Full | 18.153 | 19.30 | PASS |
| N41 | 30 | 20 | CP-64QAM | M | Outer_Full | 18.131 | 19.10 | PASS |
| N41 | 30 | 20 | CP-256QAM | M | Outer_Full | 18.191 | 19.26 | PASS |
| N41 | 30 | 30 | CP-QPSK | M | Outer_Full | 27.785 | 29.19 | PASS |
| N41 | 30 | 30 | CP-16QAM | M | Outer_Full | 27.739 | 29.19 | PASS |
| N41 | 30 | 30 | CP-64QAM | M | Outer_Full | 27.822 | 29.13 | PASS |
| N41 | 30 | 30 | CP-256QAM | M | Outer_Full | 27.734 | 29.25 | PASS |
| N41 | 30 | 40 | CP-QPSK | M | Outer_Full | 37.719 | 39.40 | PASS |
| N41 | 30 | 40 | CP-16QAM | M | Outer_Full | 37.662 | 39.48 | PASS |
| N41 | 30 | 40 | CP-64QAM | M | Outer_Full | 37.758 | 39.64 | PASS |
| N41 | 30 | 40 | CP-256QAM | M | Outer_Full | 37.719 | 39.64 | PASS |
| N41 | 30 | 50 | CP-QPSK | M | Outer_Full | 47.515 | 50.15 | PASS |
| N41 | 30 | 50 | CP-16QAM | M | Outer_Full | 47.452 | 50.15 | PASS |
| N41 | 30 | 50 | CP-64QAM | M | Outer_Full | 47.442 | 50.15 | PASS |
| N41 | 30 | 50 | CP-256QAM | M | Outer_Full | 47.518 | 50.15 | PASS |
| N41 | 30 | 60 | CP-QPSK | M | Outer_Full | 57.638 | 60.66 | PASS |
| N41 | 30 | 60 | CP-16QAM | M | Outer_Full | 57.825 | 60.66 | PASS |
| N41 | 30 | 60 | CP-64QAM | M | Outer_Full | 57.818 | 60.66 | PASS |
| N41 | 30 | 60 | CP-256QAM | M | Outer_Full | 57.818 | 60.78 | PASS |
| N41 | 30 | 80 | CP-QPSK | M | Outer_Full | 77.388 | 80.40 | PASS |
| N41 | 30 | 80 | CP-16QAM | M | Outer_Full | 77.273 | 80.24 | PASS |
| N41 | 30 | 80 | CP-64QAM | M | Outer_Full | 77.195 | 80.40 | PASS |
| N41 | 30 | 80 | CP-256QAM | M | Outer_Full | 77.324 | 80.40 | PASS |
| N41 | 30 | 90 | CP-QPSK | M | Outer_Full | 87.280 | 90.45 | PASS |
| N41 | 30 | 90 | CP-16QAM | M | Outer_Full | 87.160 | 90.45 | PASS |
| N41 | 30 | 90 | CP-64QAM | M | Outer_Full | 87.453 | 90.45 | PASS |
| N41 | 30 | 90 | CP-256QAM | M | Outer_Full | 87.363 | 90.45 | PASS |
| N41 | 30 | 100 | CP-QPSK | M | Outer_Full | 97.110 | 100.70 | PASS |
| N41 | 30 | 100 | CP-16QAM | M | Outer_Full | 97.155 | 100.70 | PASS |
| N41 | 30 | 100 | CP-64QAM | M | Outer_Full | 97.225 | 100.70 | PASS |
| N41 | 30 | 100 | CP-256QAM | M | Outer_Full | 96.984 | 100.50 | PASS |

TEST RESULT-ANT1

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|------------|---------|------------|--------------|---------------|---------|
| N41 | 30 | 20 | CP-QPSK | M | Outer_Full | 18.172 | 19.26 | PASS |
| N41 | 30 | 20 | CP-16QAM | M | Outer_Full | 18.193 | 19.26 | PASS |
| N41 | 30 | 20 | CP-64QAM | M | Outer_Full | 18.176 | 19.38 | PASS |
| N41 | 30 | 20 | CP-256QAM | M | Outer_Full | 18.175 | 19.26 | PASS |
| N41 | 30 | 30 | CP-QPSK | M | Outer_Full | 27.781 | 29.07 | PASS |
| N41 | 30 | 30 | CP-16QAM | M | Outer_Full | 27.732 | 29.13 | PASS |
| N41 | 30 | 30 | CP-64QAM | M | Outer_Full | 27.810 | 29.19 | PASS |
| N41 | 30 | 30 | CP-256QAM | M | Outer_Full | 27.817 | 29.07 | PASS |
| N41 | 30 | 40 | CP-QPSK | M | Outer_Full | 37.716 | 39.64 | PASS |
| N41 | 30 | 40 | CP-16QAM | M | Outer_Full | 37.678 | 39.48 | PASS |
| N41 | 30 | 40 | CP-64QAM | M | Outer_Full | 37.735 | 39.64 | PASS |



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|-----|----|-----|-----------|---|------------|--------|--------|------|
| N41 | 30 | 40 | CP-256QAM | M | Outer_Full | 37.757 | 39.64 | PASS |
| N41 | 30 | 50 | CP-QPSK | M | Outer_Full | 47.540 | 50.15 | PASS |
| N41 | 30 | 50 | CP-16QAM | M | Outer_Full | 47.390 | 50.25 | PASS |
| N41 | 30 | 50 | CP-64QAM | M | Outer_Full | 47.486 | 50.25 | PASS |
| N41 | 30 | 50 | CP-256QAM | M | Outer_Full | 47.465 | 50.15 | PASS |
| N41 | 30 | 60 | CP-QPSK | M | Outer_Full | 57.716 | 60.66 | PASS |
| N41 | 30 | 60 | CP-16QAM | M | Outer_Full | 57.902 | 60.54 | PASS |
| N41 | 30 | 60 | CP-64QAM | M | Outer_Full | 57.764 | 60.54 | PASS |
| N41 | 30 | 60 | CP-256QAM | M | Outer_Full | 57.642 | 60.42 | PASS |
| N41 | 30 | 80 | CP-QPSK | M | Outer_Full | 77.306 | 80.40 | PASS |
| N41 | 30 | 80 | CP-16QAM | M | Outer_Full | 77.244 | 80.40 | PASS |
| N41 | 30 | 80 | CP-64QAM | M | Outer_Full | 77.309 | 80.40 | PASS |
| N41 | 30 | 80 | CP-256QAM | M | Outer_Full | 77.274 | 80.40 | PASS |
| N41 | 30 | 90 | CP-QPSK | M | Outer_Full | 87.212 | 90.45 | PASS |
| N41 | 30 | 90 | CP-16QAM | M | Outer_Full | 86.975 | 90.45 | PASS |
| N41 | 30 | 90 | CP-64QAM | M | Outer_Full | 87.233 | 90.63 | PASS |
| N41 | 30 | 90 | CP-256QAM | M | Outer_Full | 87.248 | 90.45 | PASS |
| N41 | 30 | 100 | CP-QPSK | M | Outer_Full | 97.052 | 100.50 | PASS |
| N41 | 30 | 100 | CP-16QAM | M | Outer_Full | 97.120 | 100.50 | PASS |
| N41 | 30 | 100 | CP-64QAM | M | Outer_Full | 96.946 | 100.50 | PASS |
| N41 | 30 | 100 | CP-256QAM | M | Outer_Full | 97.030 | 100.50 | PASS |

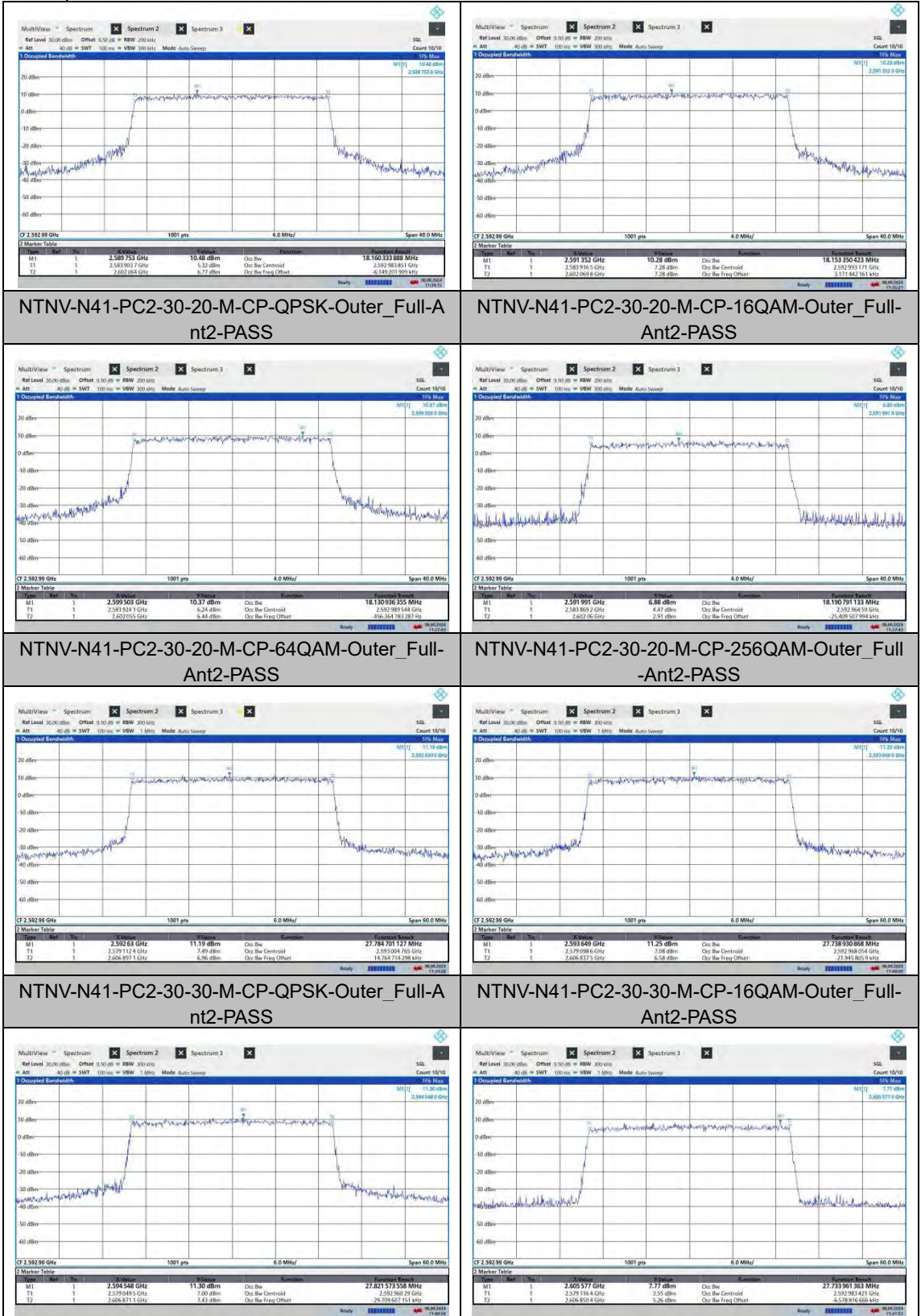


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TEST GRAPHS-ANT2

Occupied Bandwidth



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

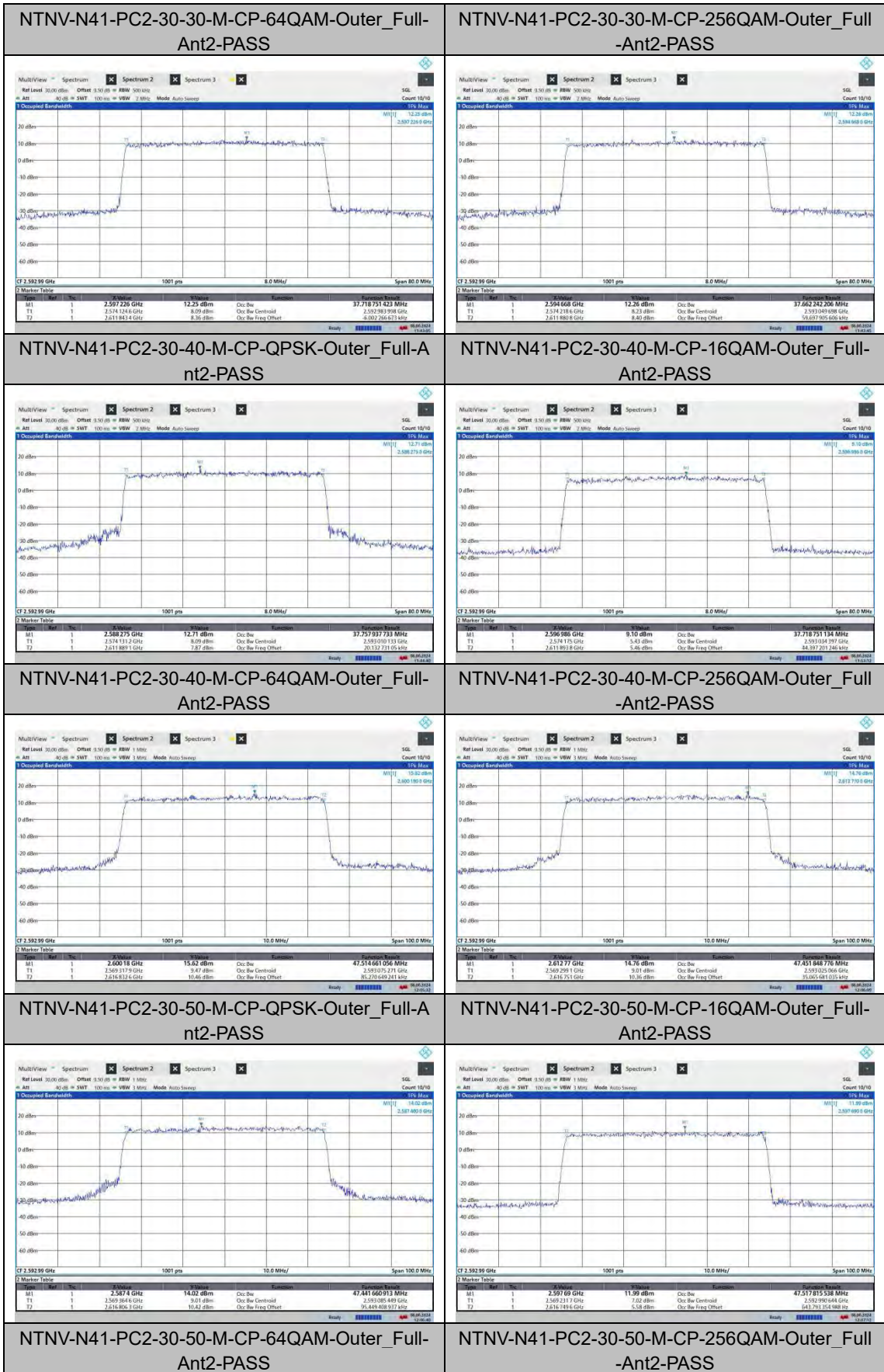
Tel: +86 755 8869 6566
Fax: +86 755 8869 6577

Email: customerservice.sw@bureauveritas.com



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NTNV-N41-PC2-30-60-M-CP-QPSK-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-60-M-CP-16QAM-Outer_Full-Ant2-PASS



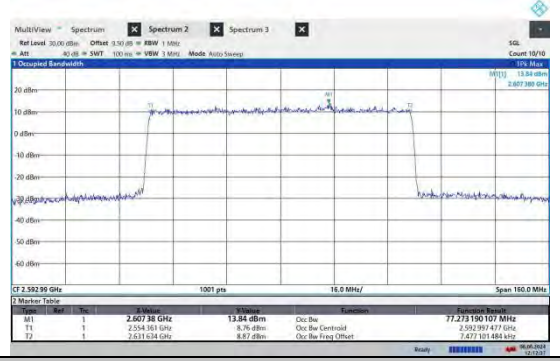
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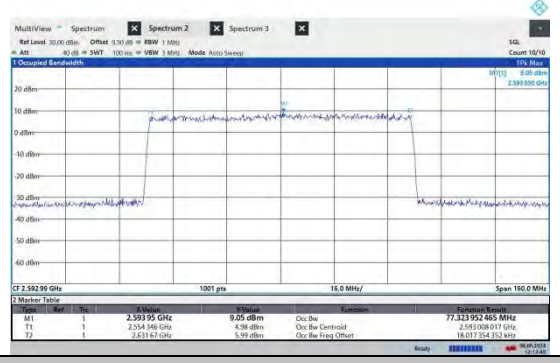
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NTNV-N41-PC2-30-80-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-80-M-CP-256QAM-Outer_Full-Ant2-PASS



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Reference No.: W7L-240430W002RF01



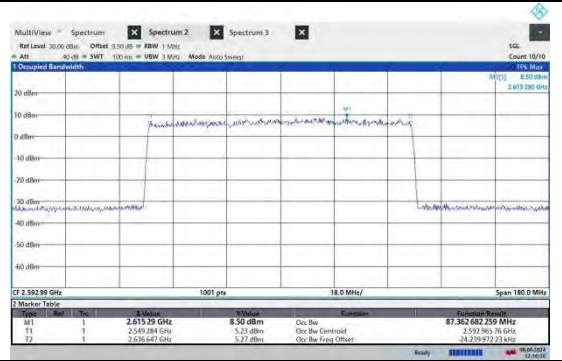
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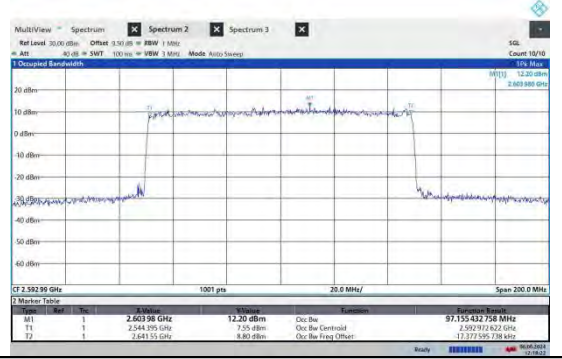
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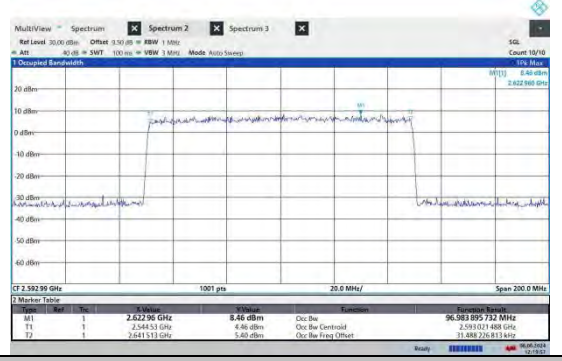
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NTNV-N41-PC2-30-100-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-100-M-CP-256QAM-Outer_Full-Ant2-PASS

26dB Bandwidth



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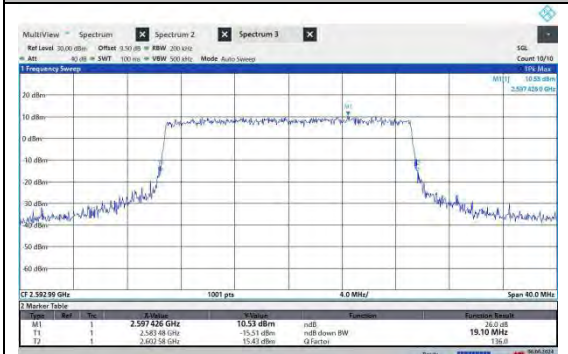
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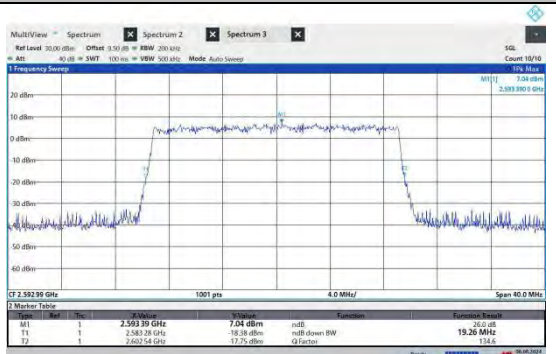
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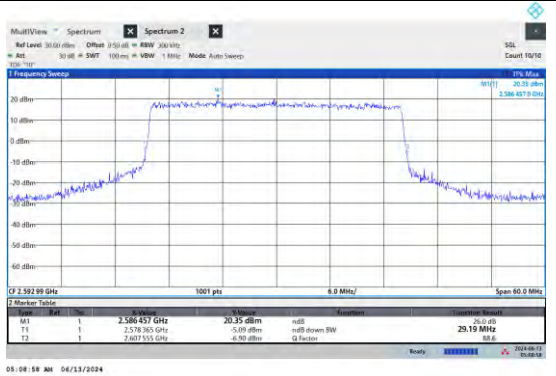
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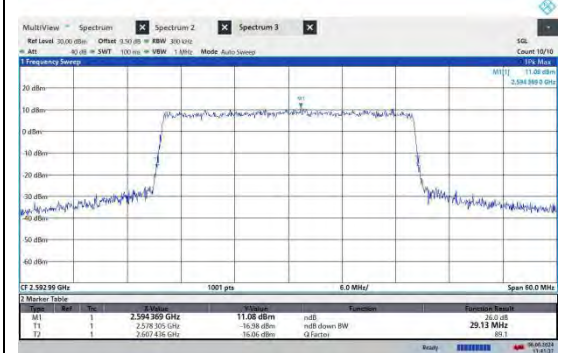
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NTNV-N41-PC2-30-30-M-CP-16QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-30-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-30-M-CP-256QAM-Outer_Full-Ant2-PASS



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NTNV-N41-PC2-30-40-M-CP-QPSK-Outer_Full-Ant2-PASS



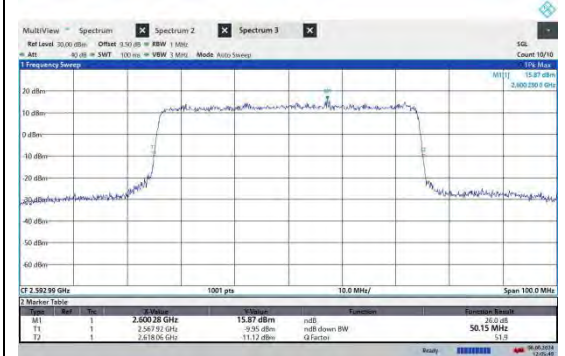
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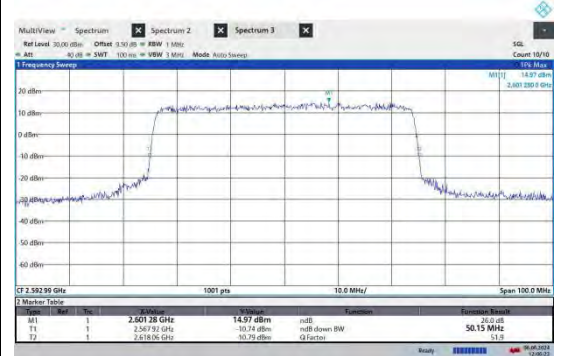
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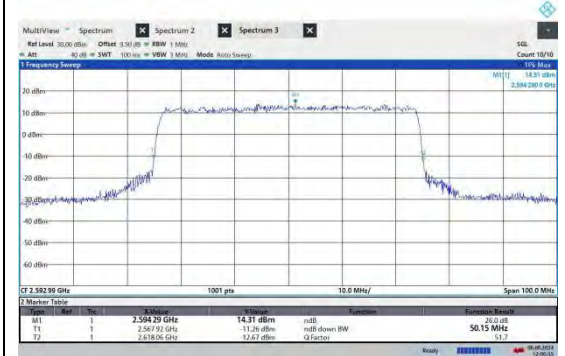
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NTNV-N41-PC2-30-50-M-CP-QPSK-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-50-M-CP-16QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-50-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-50-M-CP-256QAM-Outer_Full-Ant2-PASS



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Reference No.: W7L-240430W002RF01



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NTNV-N41-PC2-30-60-M-CP-16QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-60-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-60-M-CP-256QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-80-M-CP-QPSK-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-80-M-CP-16QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-80-M-CP-64QAM-Outer_Full-Ant2-PASS



NTNV-N41-PC2-30-80-M-CP-256QAM-Outer_Full-Ant2-PASS



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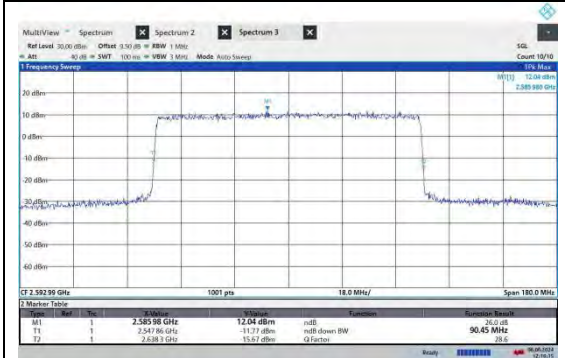
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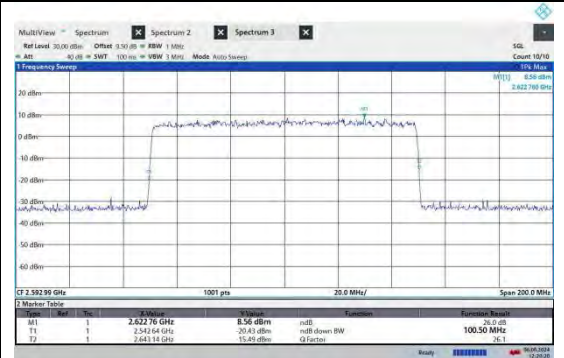
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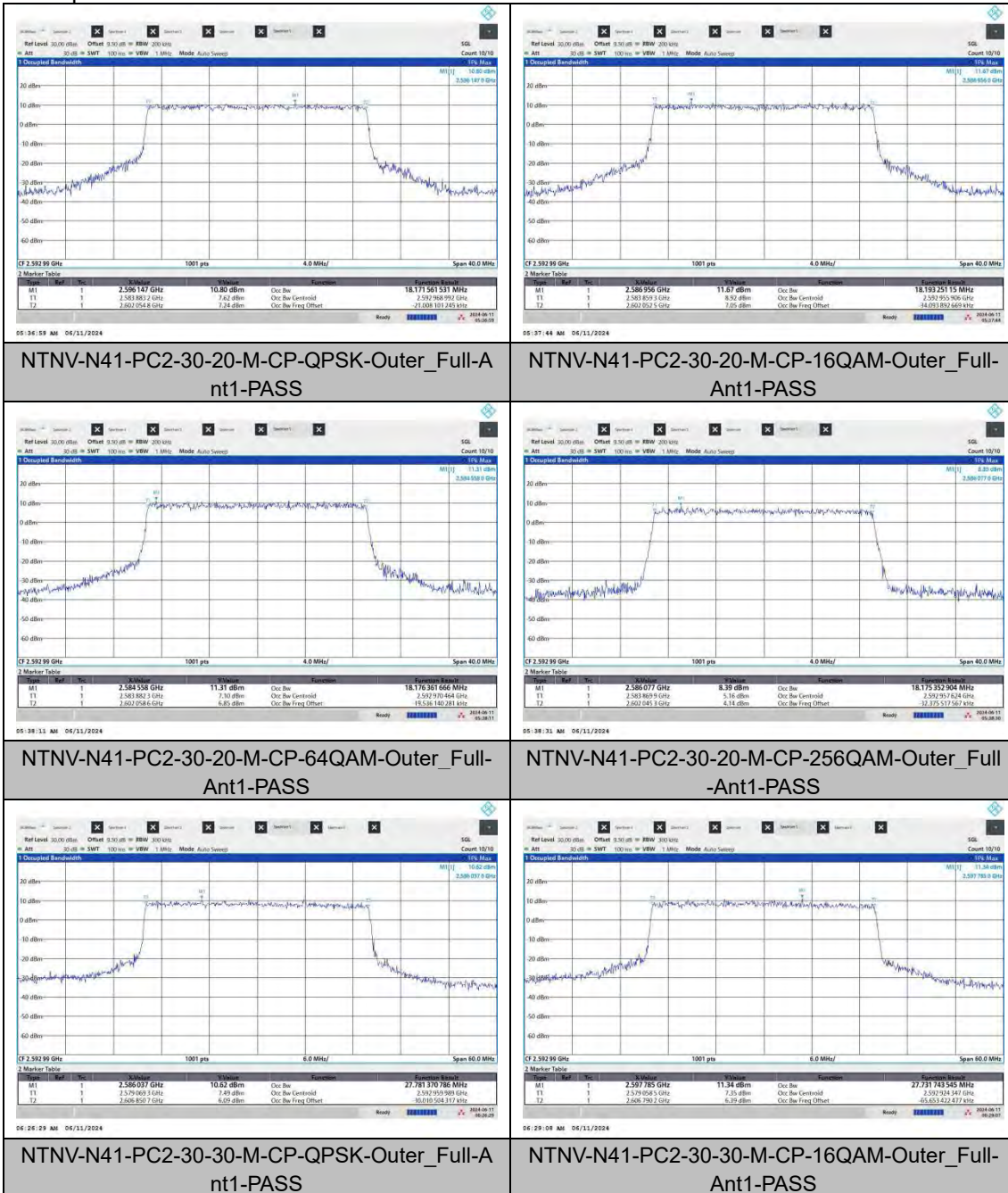


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TEST GRAPHS-ANT1

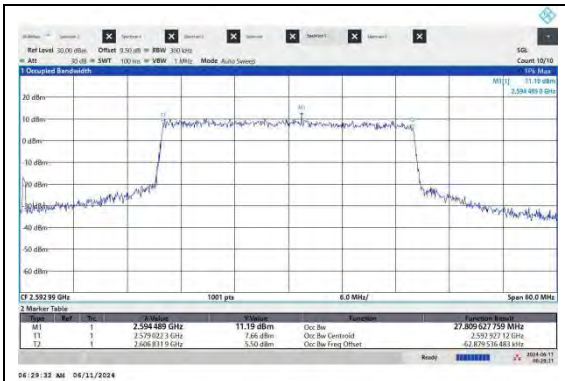
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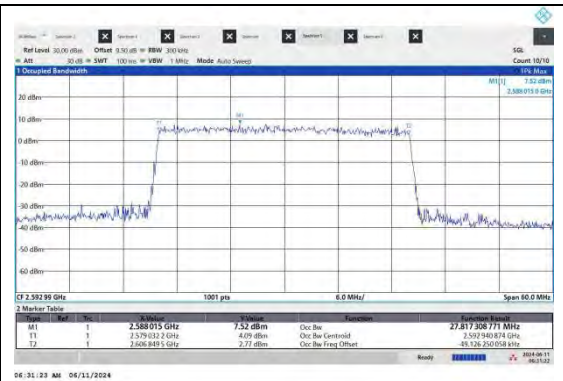


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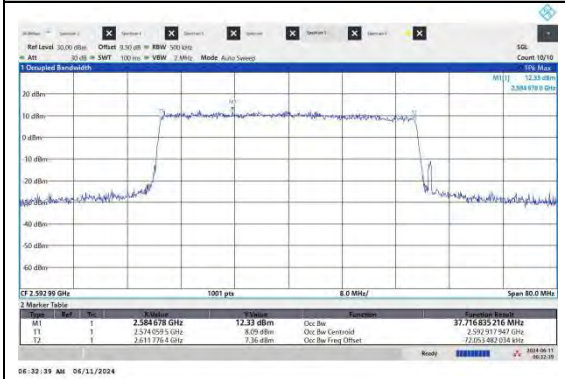
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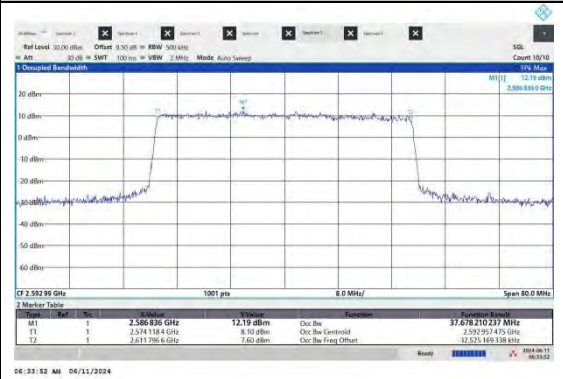
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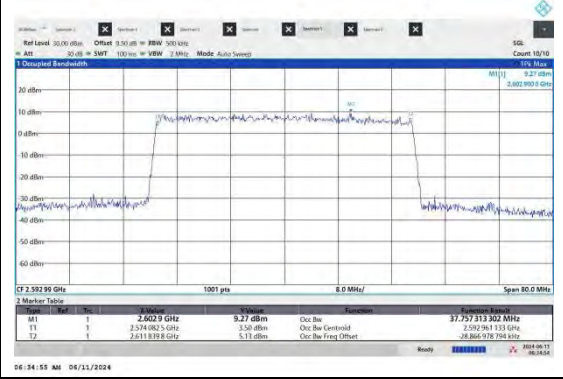
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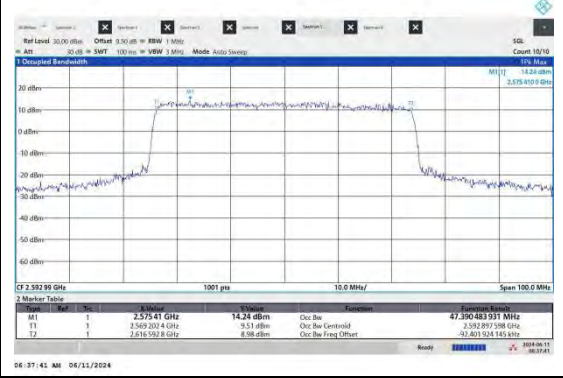
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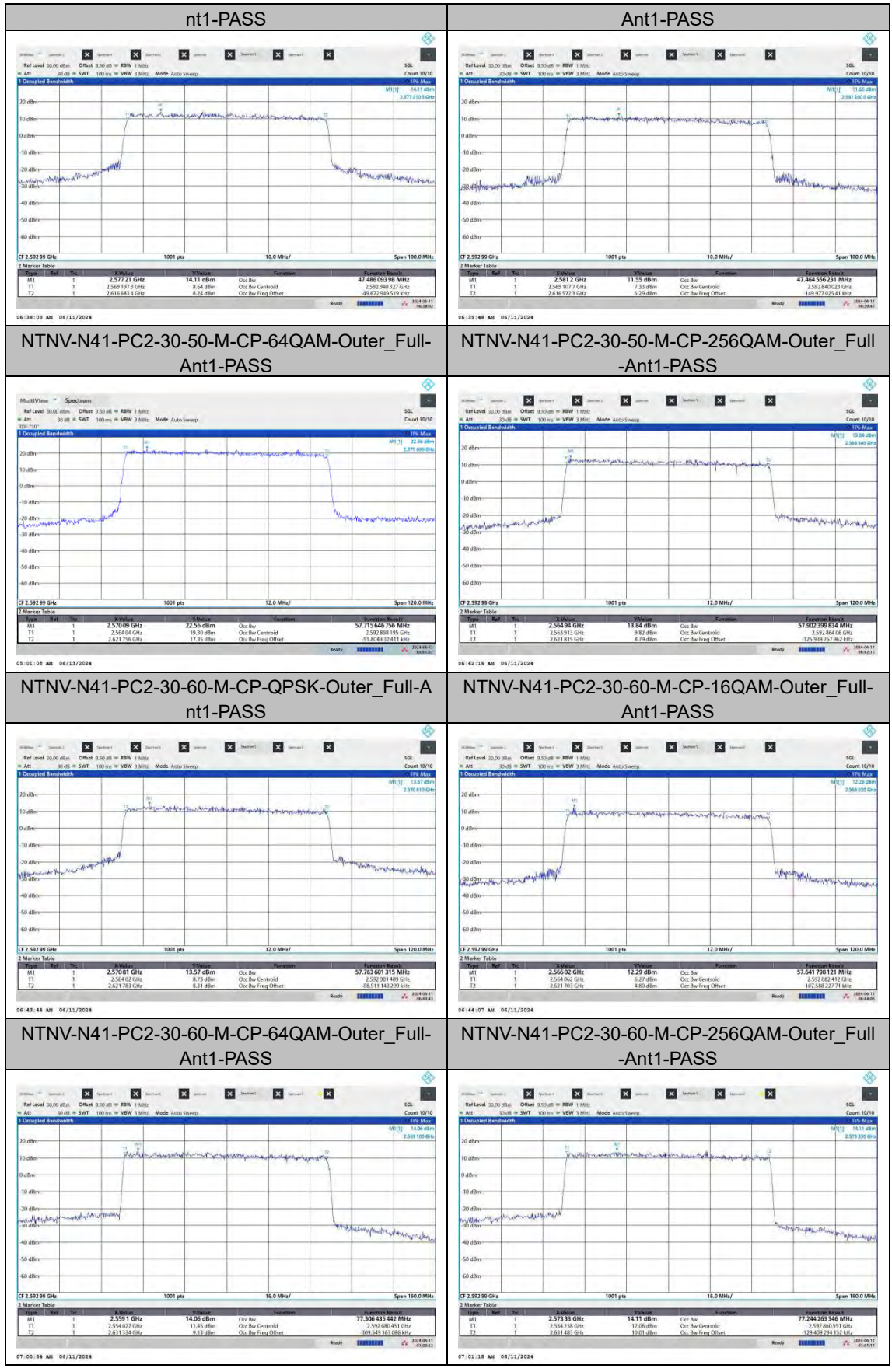


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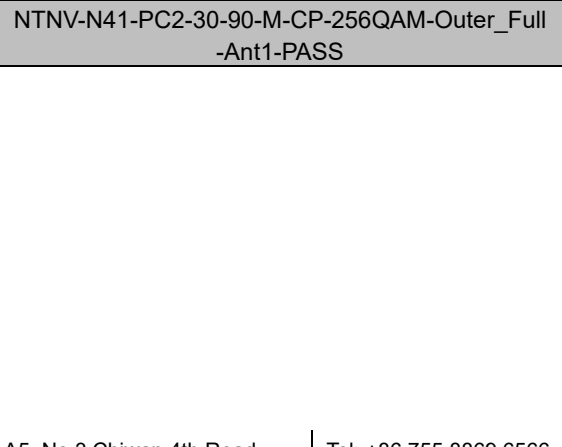
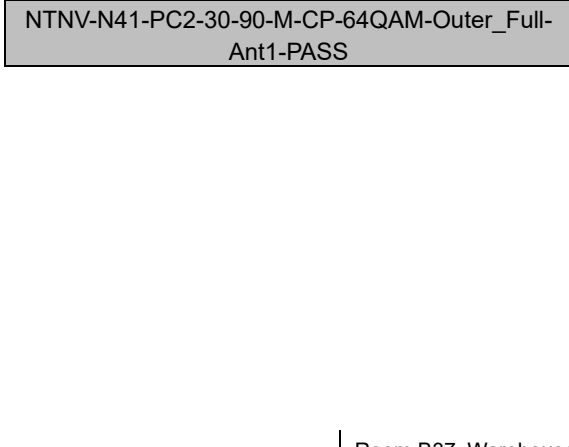
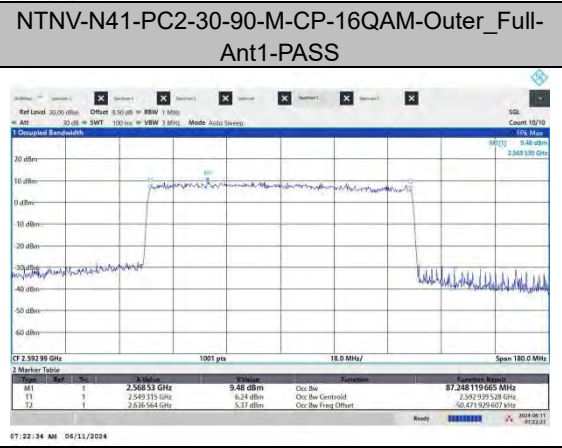
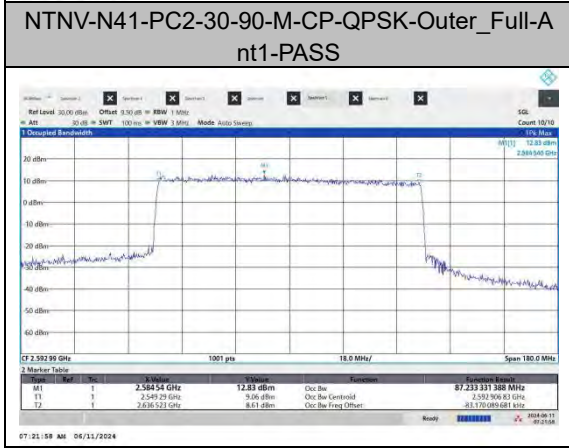
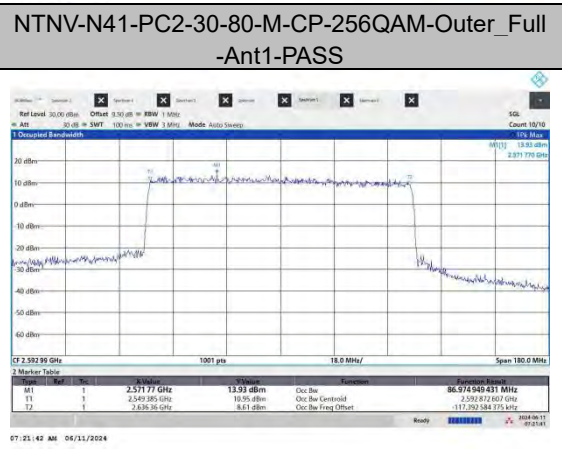
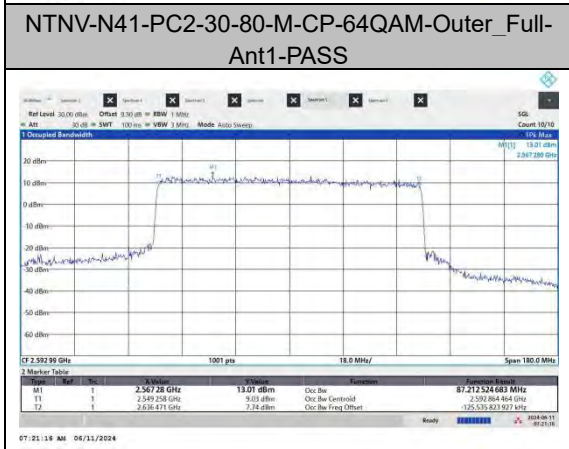
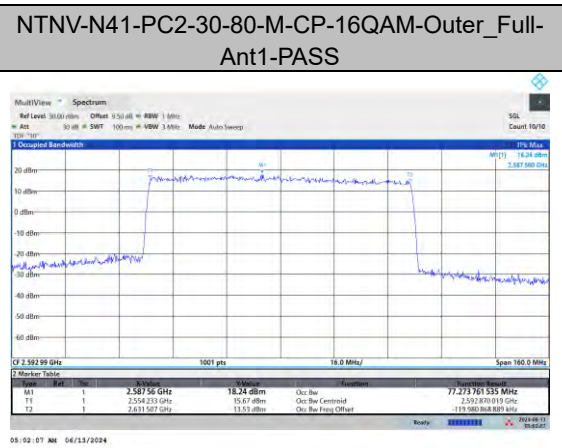
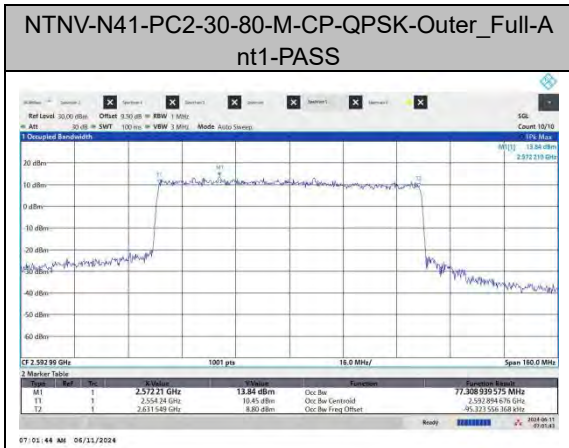
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BUREAU VERITAS

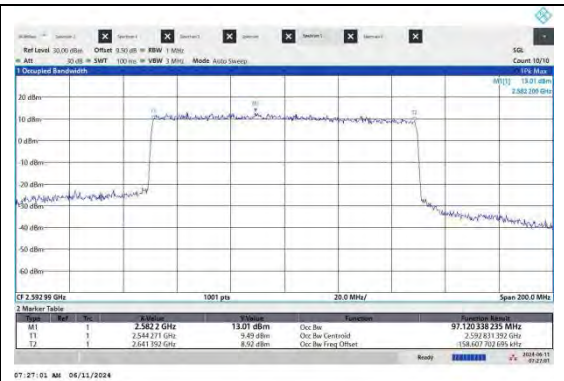
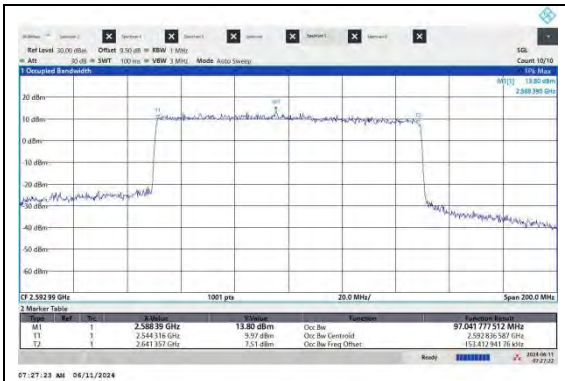
Reference No.: W7L-240430W002RF01





BUREAU VERITAS

Reference No.: W7L-240430W002RF01



NTNV-N41-PC2-30-100-M-CP-QPSK-Outer_Full-Ant1-PASS

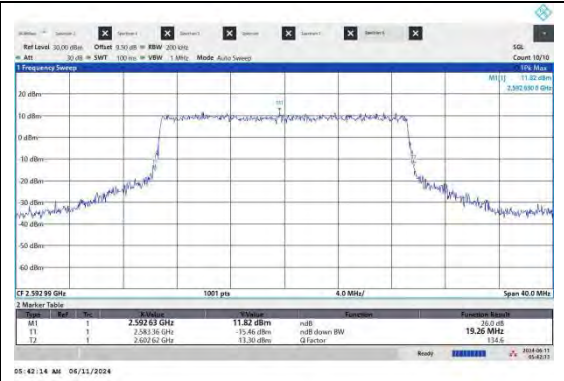
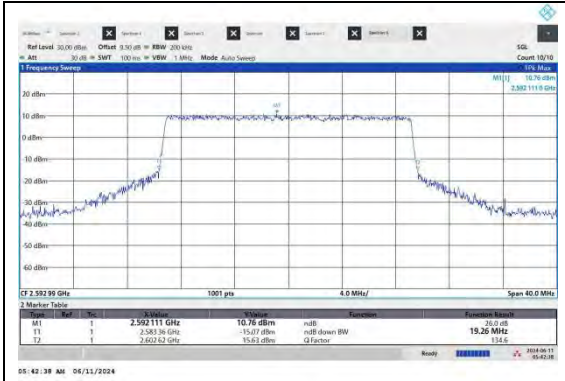
NTNV-N41-PC2-30-100-M-CP-16QAM-Outer_Full-Ant1-PASS



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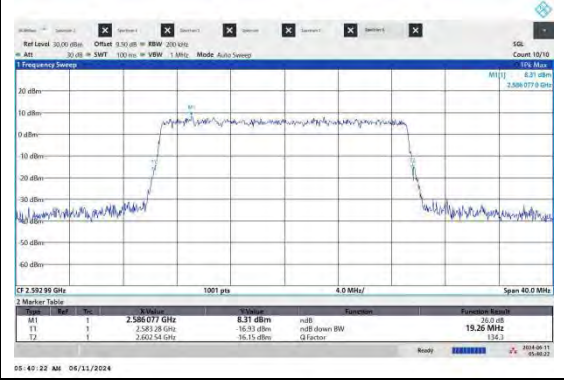
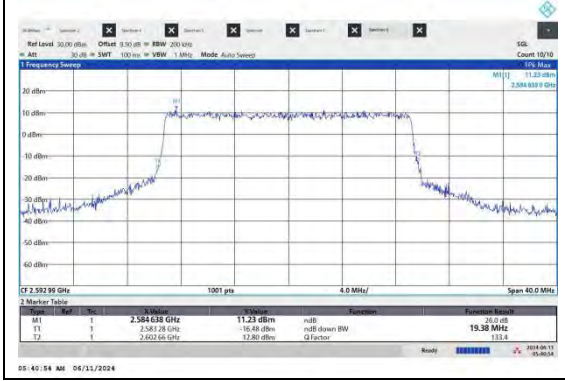
NTNV-N41-PC2-30-100-M-CP-256QAM-Outer_Full-Ant1-PASS

26dB Bandwidth



NTNV-N41-PC2-30-20-M-CP-QPSK-Outer_Full-Ant1-PASS

NTNV-N41-PC2-30-20-M-CP-16QAM-Outer_Full-Ant1-PASS



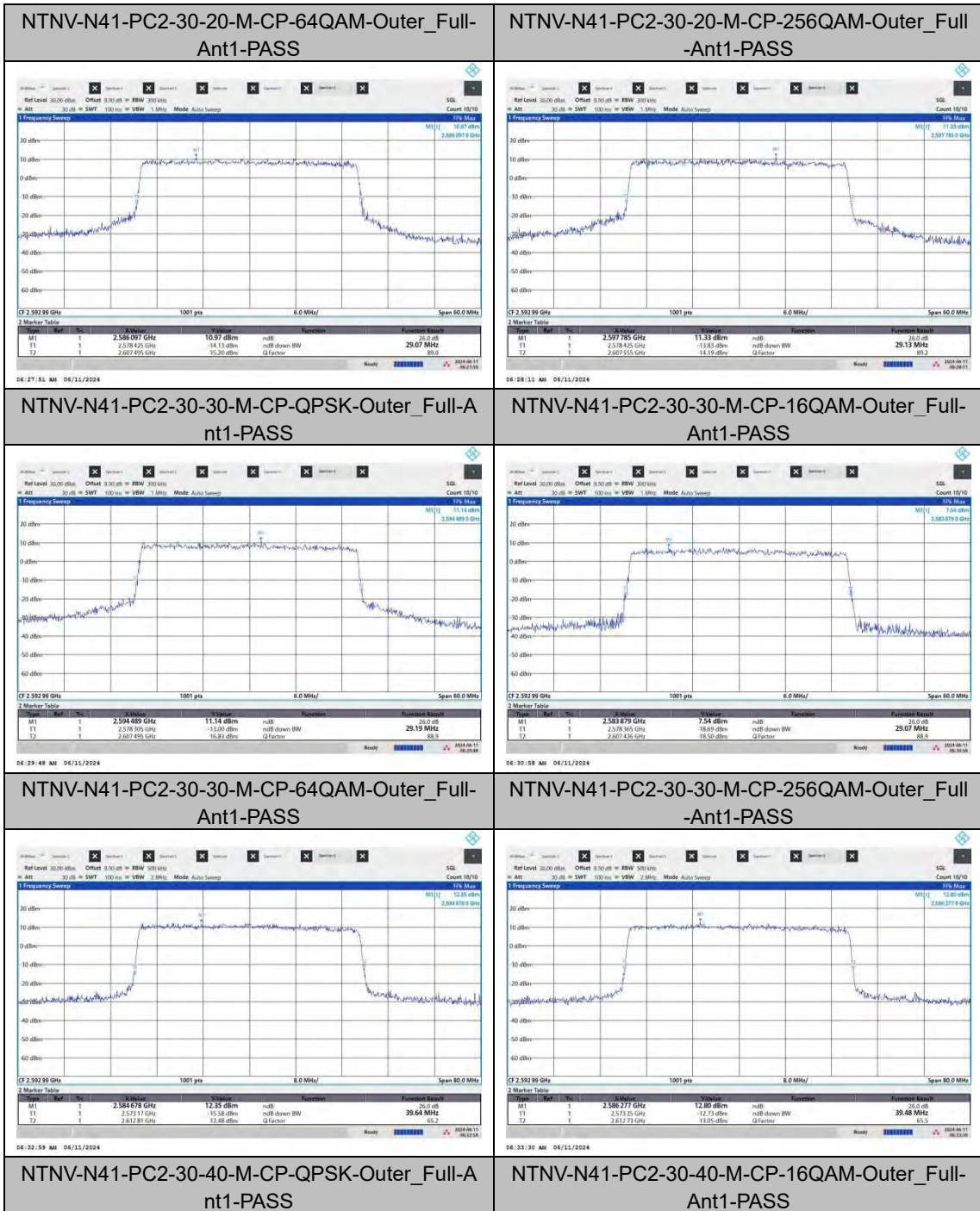
NTNV-N41-PC2-30-20-M-CP-QPSK-Outer_Full-Ant1-PASS

NTNV-N41-PC2-30-20-M-CP-16QAM-Outer_Full-Ant1-PASS



BUREAU VERITAS

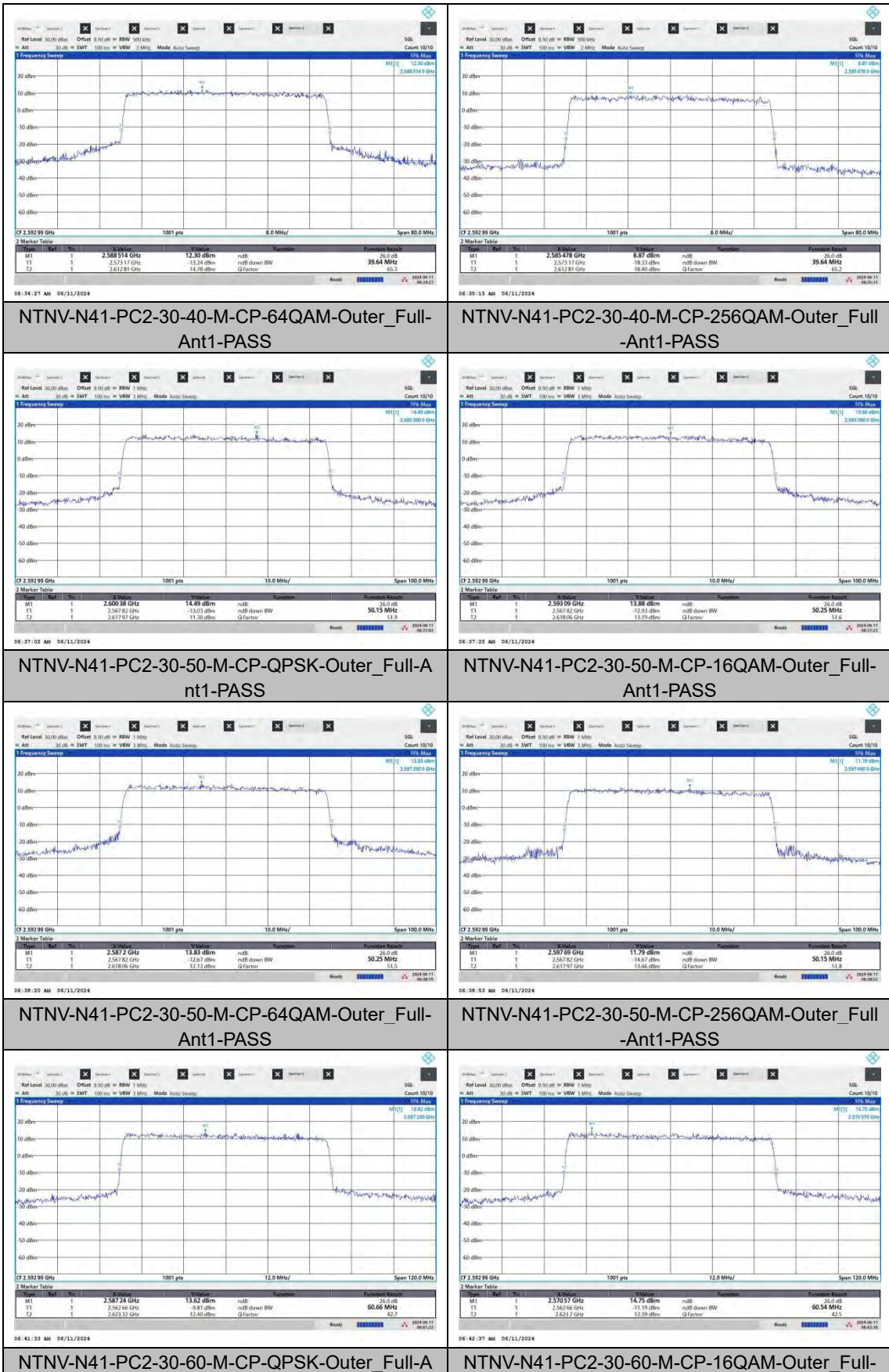
Reference No.: W7L-240430W002RF01





BUREAU VERITAS

Reference No.: W7L-240430W002RF01



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

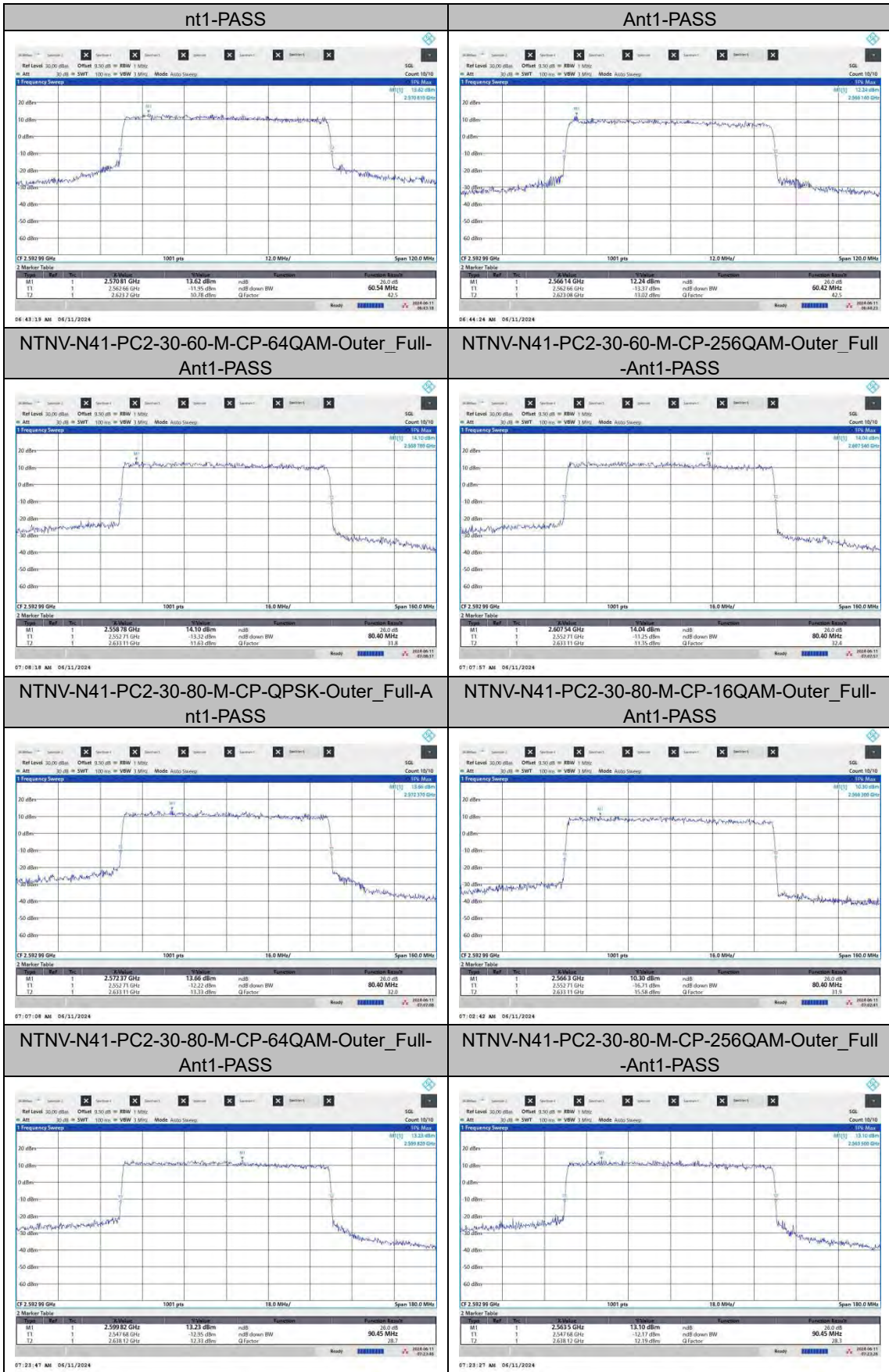
Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

Email: customerservice.sw@bureauveritas.com



BUREAU VERITAS

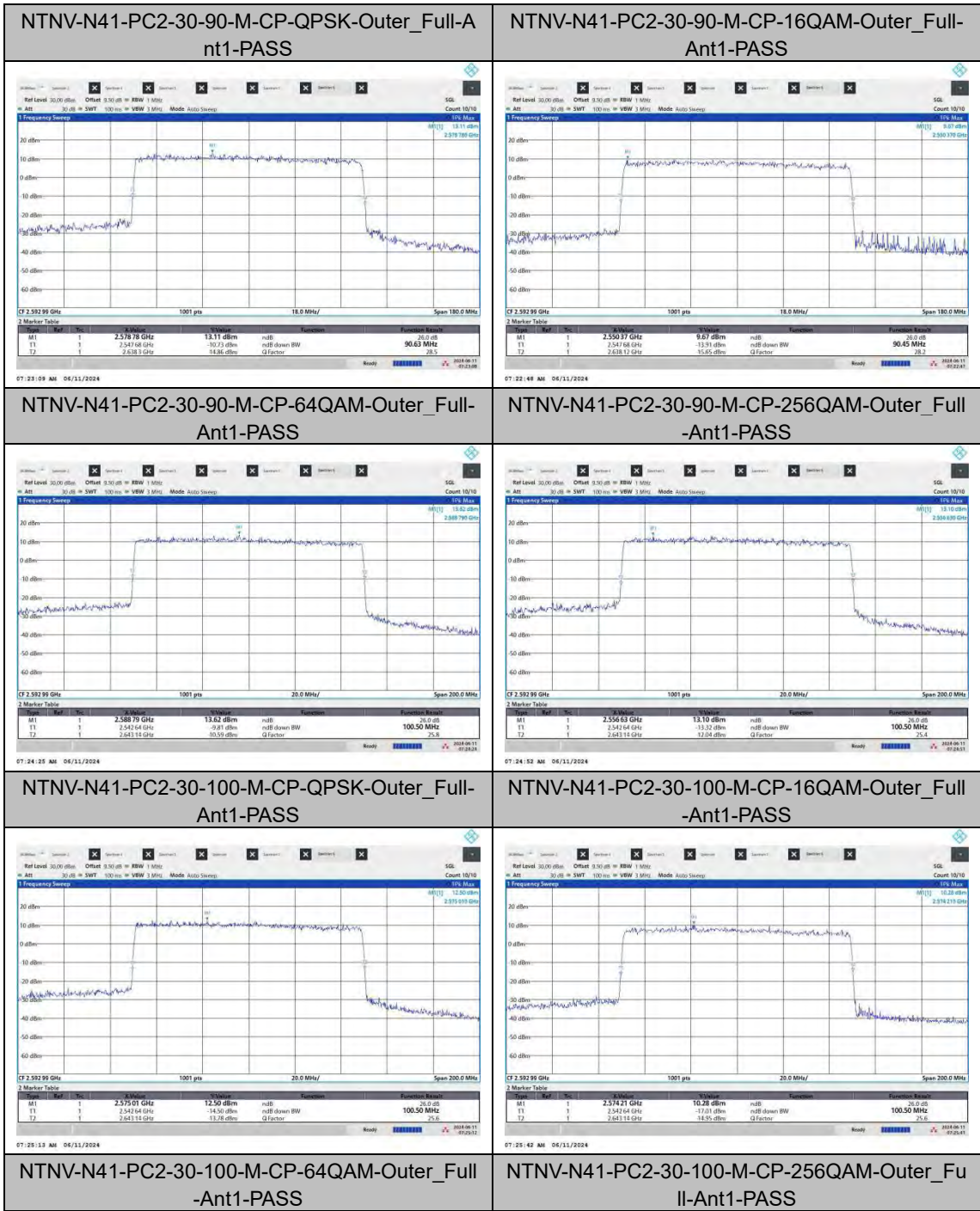
Reference No.: W7L-240430W002RF01





BUREAU VERITAS

Reference No.: W7L-240430W002RF01





Reference No.: W7L-240430W002RF01

BAND EDGE FOR MIMO TEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Verdict |
|------|-----|-----------|------------|---------|----------------|-----------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |

TEST RESULT-ANT1

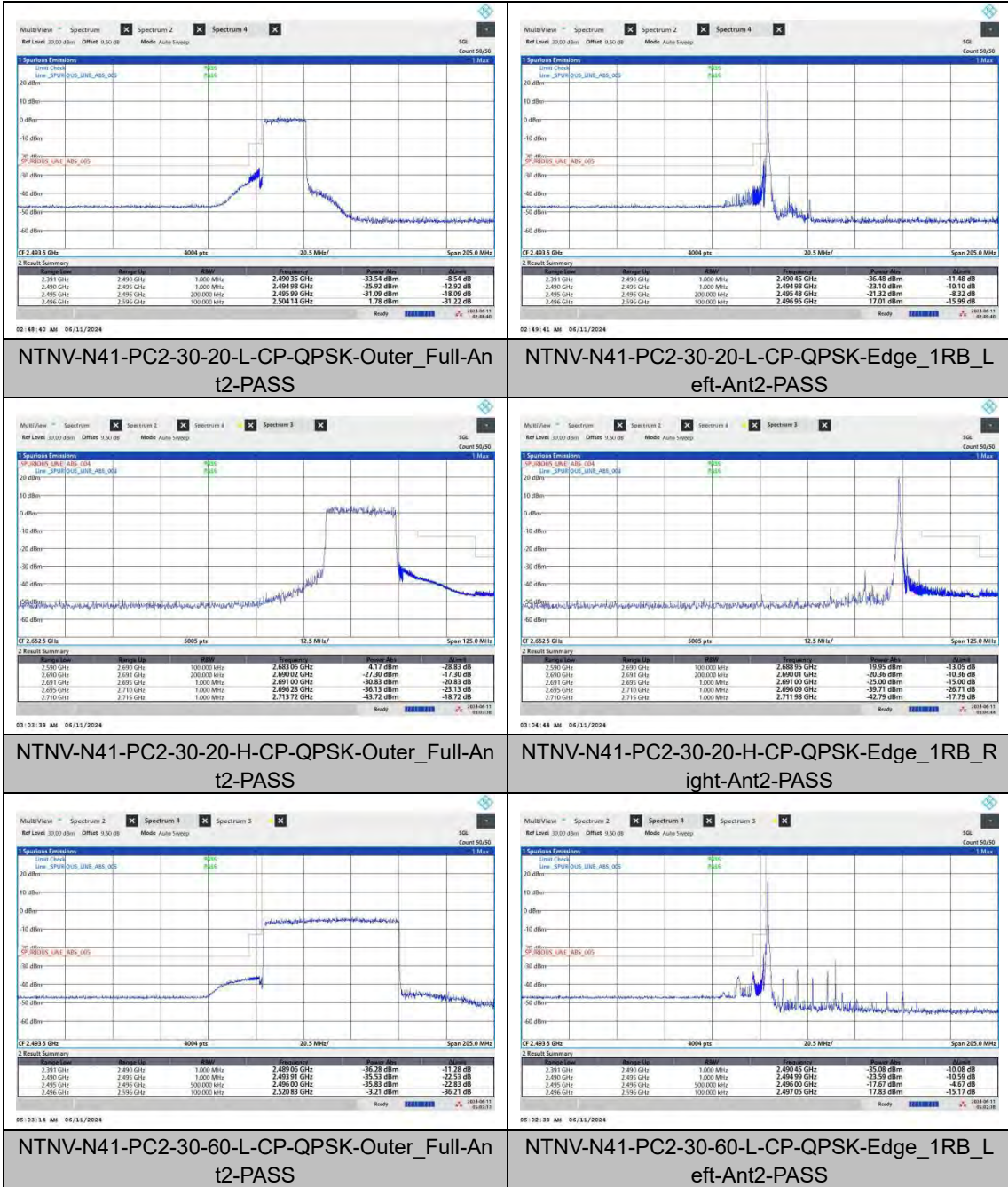
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Verdict |
|------|-----|-----------|------------|---------|----------------|-----------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Outer_Full | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Edge_1RB_Left | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Outer_Full | See Graph | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Edge_1RB_Right | See Graph | PASS |



BUREAU VERITAS

Reference No.: W7L-240430W002RF01

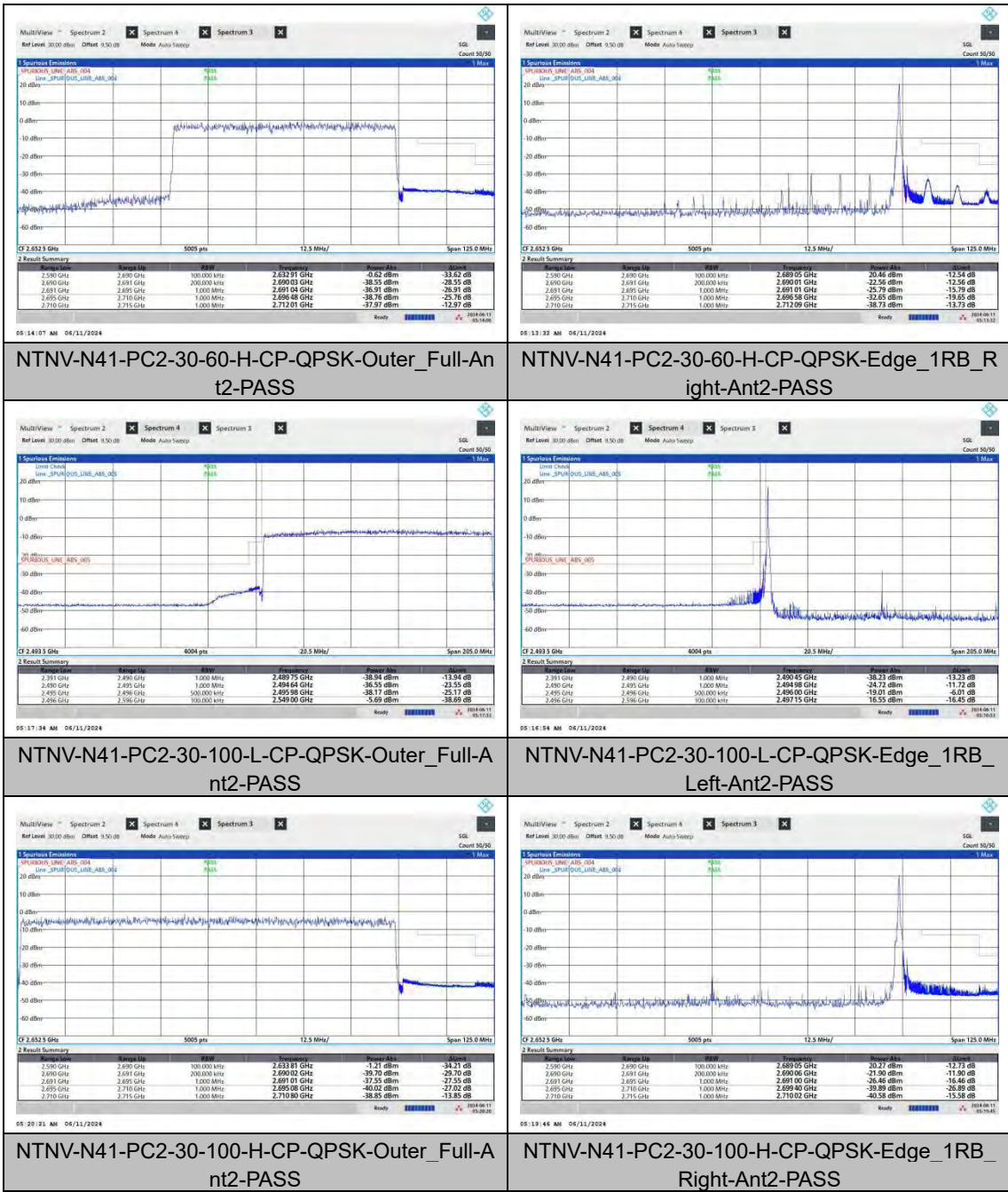
TEST GRAPHS-ANT2





BUREAU VERITAS

Reference No.: W7L-240430W002RF01

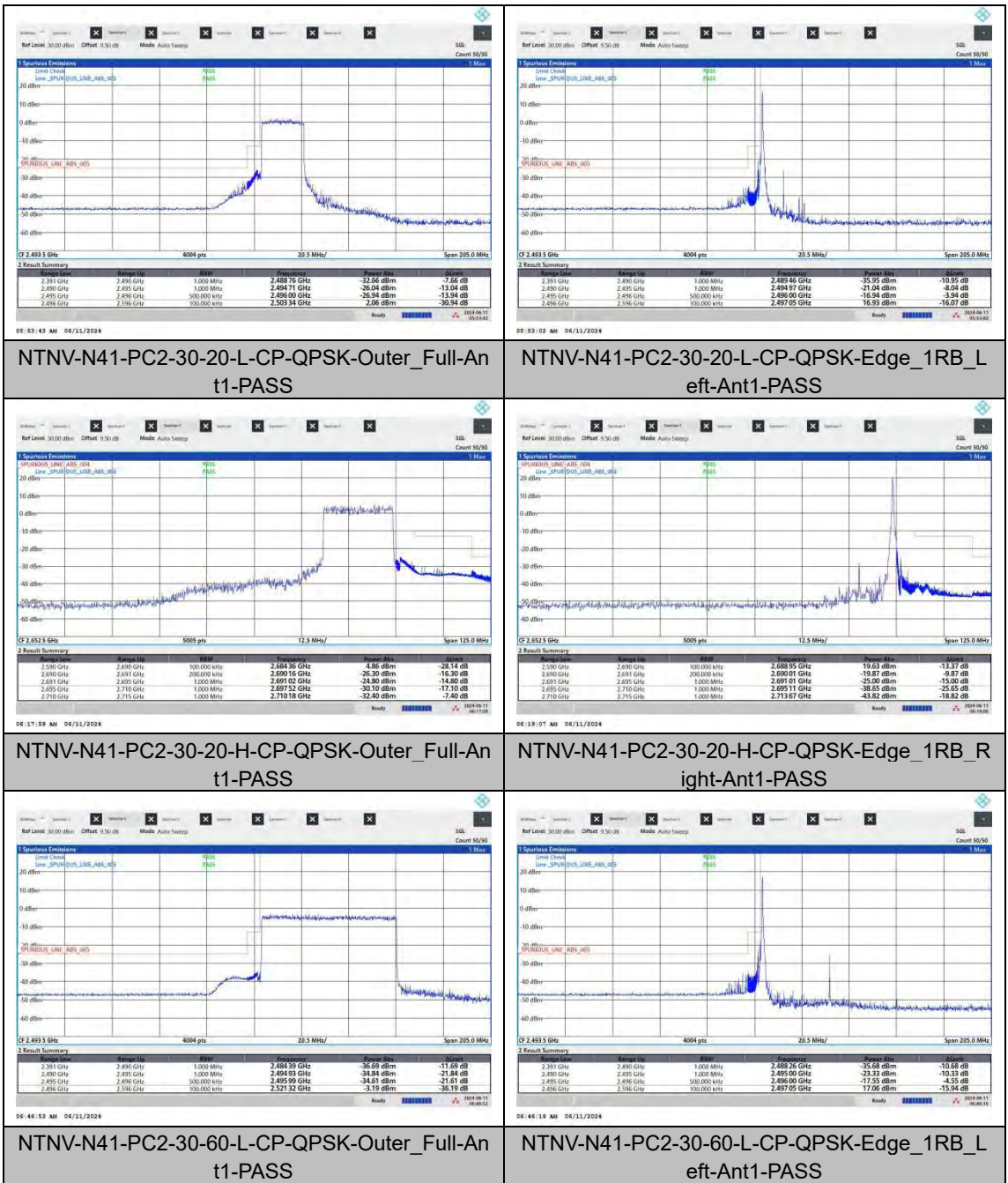




Reference No.: W7L-240430W002RF01

BUREAU VERITAS

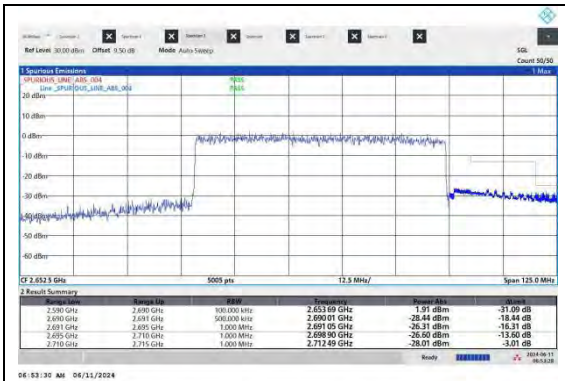
TEST GRAPHS-ANT1



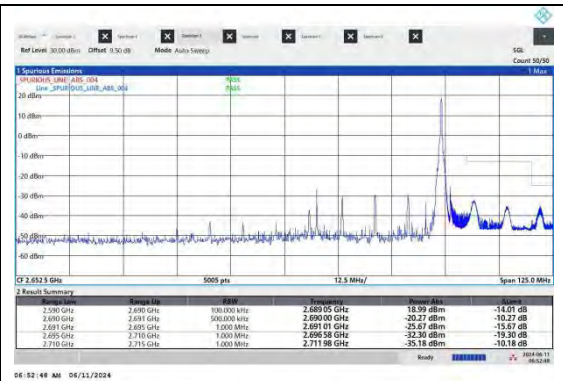


BUREAU VERITAS

Reference No.: W7L-240430W002RF01



NTNV-N41-PC2-30-60-H-CP-QPSK-Outer_Full-Ant1-PASS



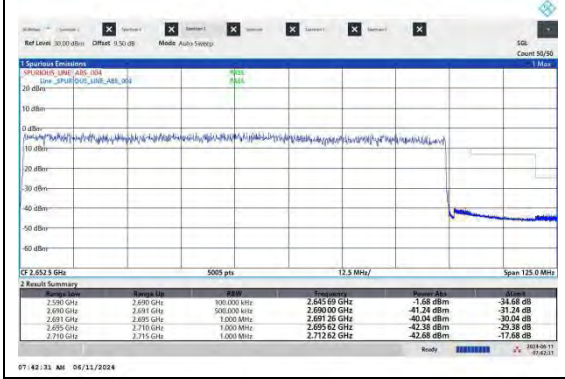
NTNV-N41-PC2-30-60-H-CP-QPSK-Edge_1RB_Right-Ant1-PASS



NTNV-N41-PC2-30-100-L-CP-QPSK-Outer_Full-Ant1-PASS



NTNV-N41-PC2-30-100-L-CP-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N41-PC2-30-100-H-CP-QPSK-Outer_Full-Ant1-PASS



NTNV-N41-PC2-30-100-H-CP-QPSK-Edge_1RB_Right-Ant1-PASS



Reference No.: W7L-240430W002RF01

CONDUCTED SPURIOUS EMISSION FOR MIMO TEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Start Freq | Stop Freq | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|---------------|------------|-----------|-----------|-------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |

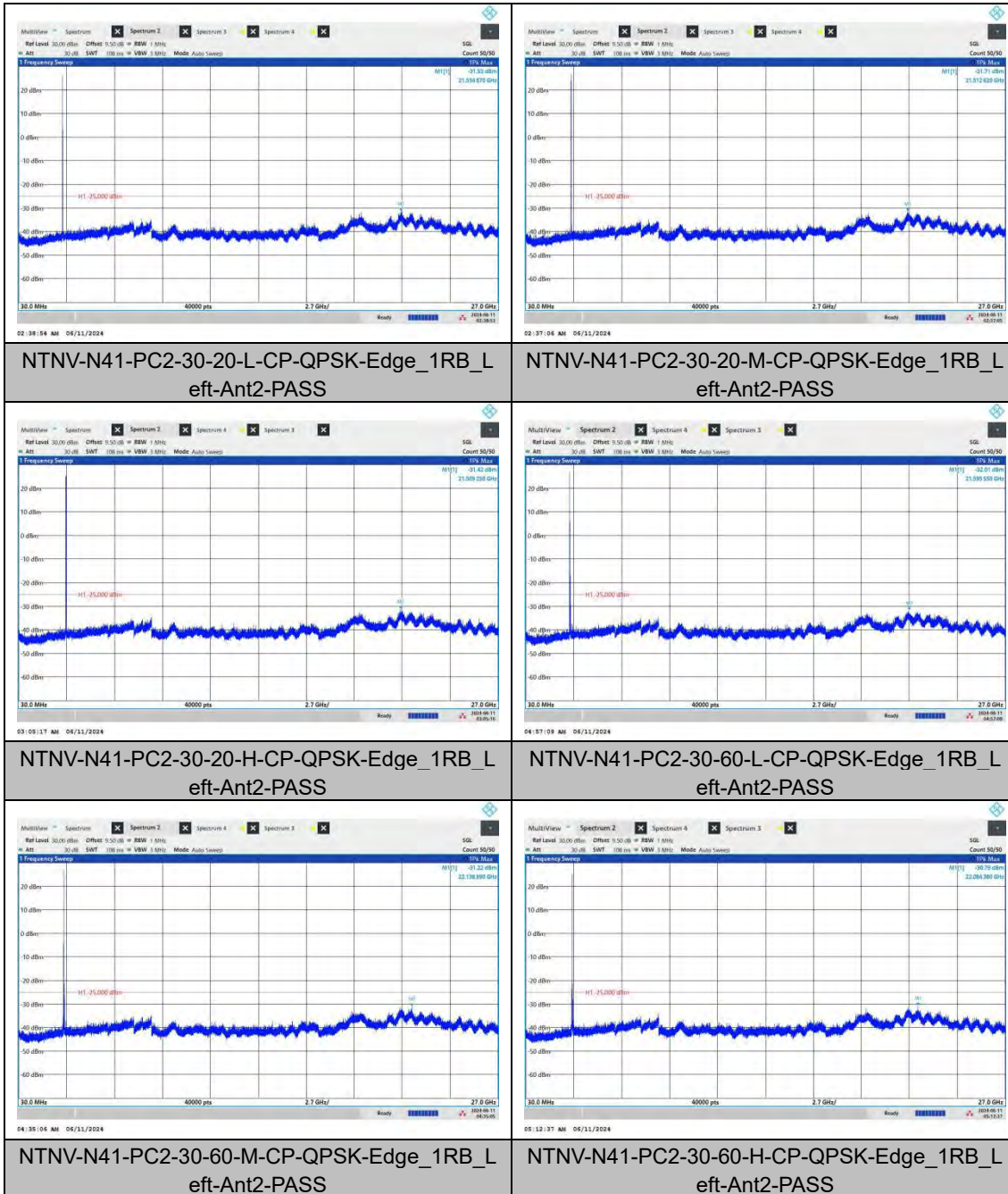
TEST RESULT-ANT1

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Start Freq | Stop Freq | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|---------------|------------|-----------|-----------|-------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 60 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | L | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | M | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |
| N41 | 30 | 100 | CP-QPSK | H | Edge 1RB Left | 30 | 27000 | See Graph | -25 | PASS |



Reference No.: W7L-240430W002RF01

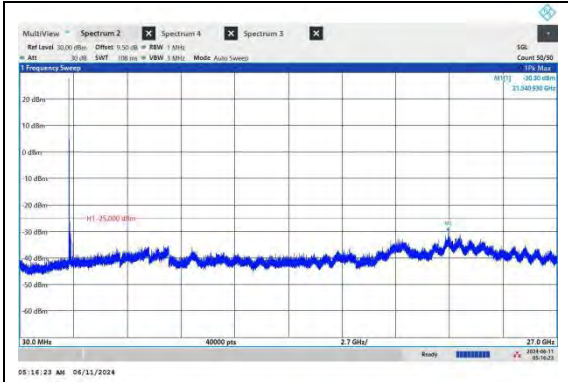
TEST GRAPHS-ANT2



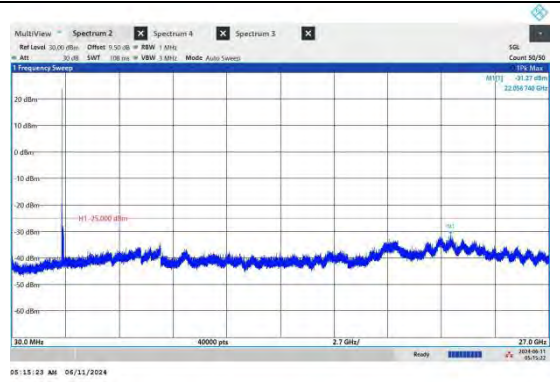


BUREAU VERITAS

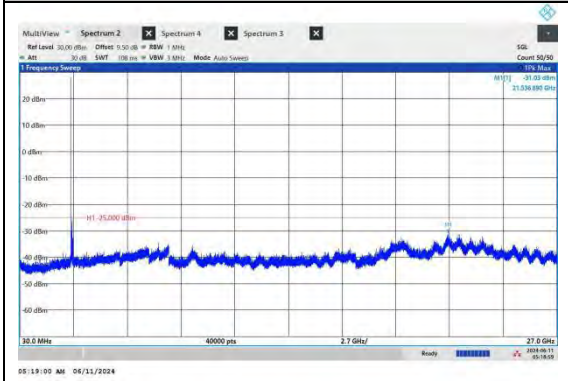
Reference No.: W7L-240430W002RF01



NTNV-N41-PC2-30-100-L-CP-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N41-PC2-30-100-M-CP-QPSK-Edge_1RB_Left-Ant2-PASS



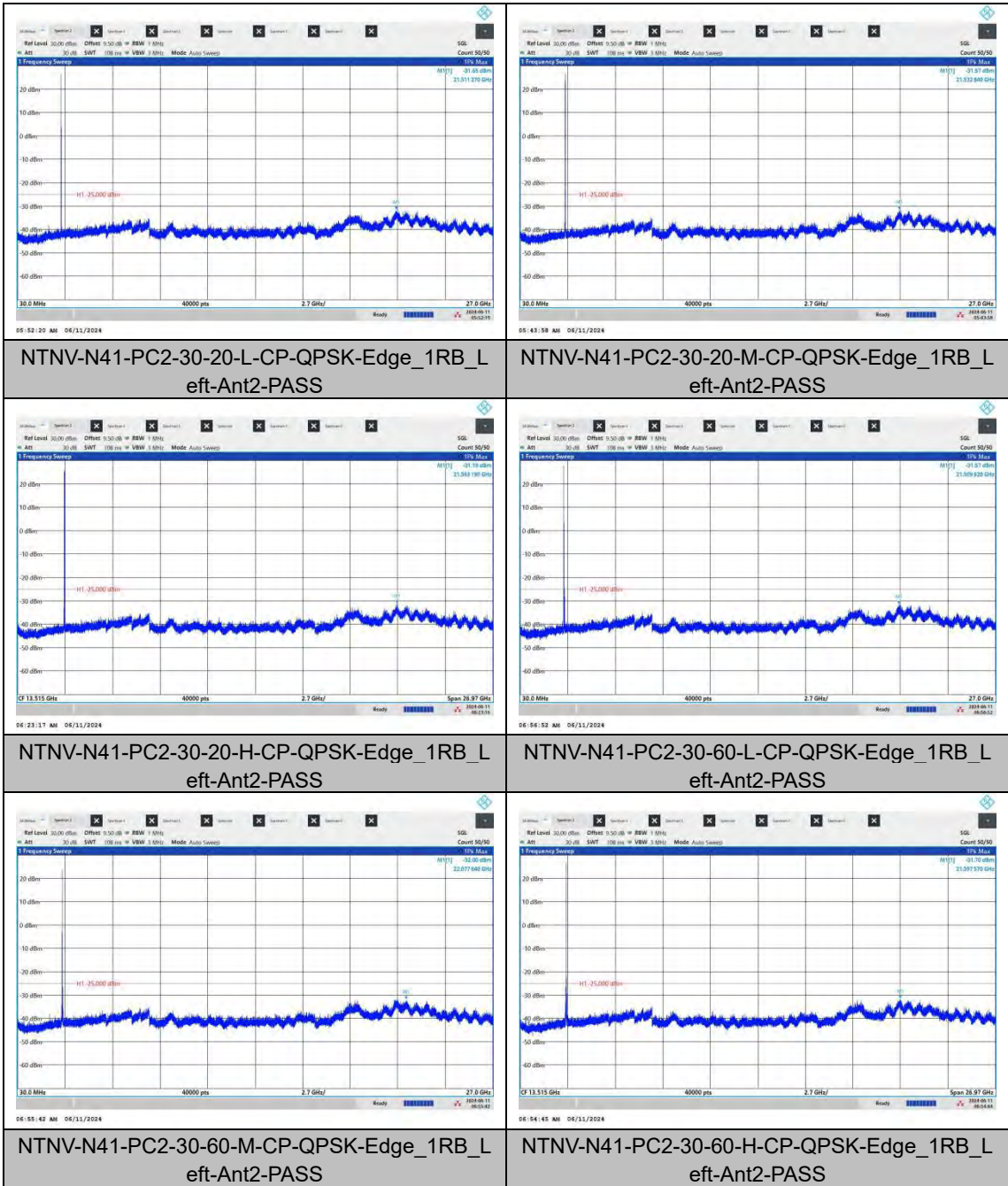
NTNV-N41-PC2-30-100-H-CP-QPSK-Edge_1RB_Left-Ant2-PASS



BUREAU VERITAS

Reference No.: W7L-240430W002RF01

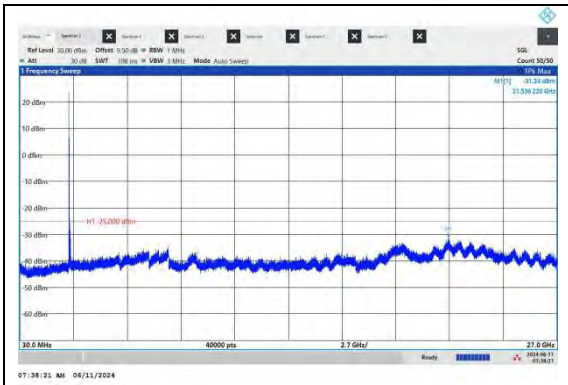
TEST GRAPHS-ANT1



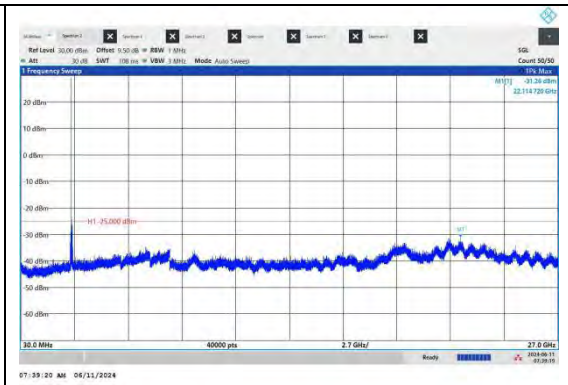


BUREAU VERITAS

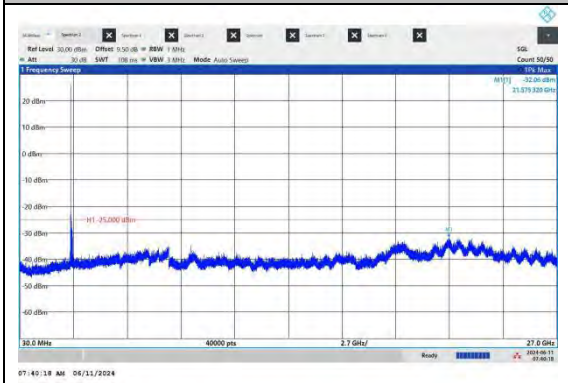
Reference No.: W7L-240430W002RF01



NTNV-N41-PC2-30-100-L-CP-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N41-PC2-30-100-M-CP-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N41-PC2-30-100-H-CP-QPSK-Edge_1RB_Left-Ant2-PASS



Reference No.: W7L-240430W002RF01

FREQUENCY STABILITY FOR MIMO TEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VL | NT | 7.000000 | 0.002793 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VN | NT | 2.000000 | 0.000798 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VH | NT | 17.000000 | 0.006343 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -30 | 6.000000 | 0.002394 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -20 | 3.000000 | 0.001197 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -10 | 9.000000 | 0.003591 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 0 | 8.000000 | 0.002985 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 10 | 4.000000 | 0.001596 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 20 | 11.000000 | 0.004242 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 30 | 13.000000 | 0.005014 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 40 | 12.000000 | 0.004628 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 50 | 7.000000 | 0.002700 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VL | NT | 9.000000 | 0.003471 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VN | NT | 8.000000 | 0.003085 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VH | NT | 7.000000 | 0.002709 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -30 | 4.000000 | 0.001543 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -20 | 2.000000 | 0.000746 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -10 | 9.000000 | 0.003358 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 0 | 7.000000 | 0.002612 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 10 | 8.000000 | 0.002985 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 20 | 11.000000 | 0.004104 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 30 | 4.000000 | 0.001493 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 40 | 7.000000 | 0.002612 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 50 | 6.000000 | 0.002239 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VL | NT | 2.000000 | 0.000798 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VN | NT | 18.000000 | 0.007183 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VH | NT | 17.000000 | 0.006784 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -30 | 7.000000 | 0.002793 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -20 | 15.000000 | 0.005986 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -10 | 8.000000 | 0.003192 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 0 | 15.000000 | 0.005986 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 10 | 4.000000 | 0.001596 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 20 | 6.000000 | 0.002314 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 30 | 14.000000 | 0.005399 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 40 | 13.000000 | 0.005014 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 50 | 4.000000 | 0.001543 | PASS |



Reference No.: W7L-240430W002RF01

TEST RESULT-ANT1

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VL | NT | 16.000000 | 0.006385 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VN | NT | 2.000000 | 0.000798 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | VH | NT | 9.000000 | 0.003591 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -30 | 4.000000 | 0.001596 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -20 | 13.000000 | 0.005188 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | -10 | 6.000000 | 0.002394 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 0 | 7.000000 | 0.002793 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 10 | 11.000000 | 0.004389 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 20 | 3.000000 | 0.001157 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 30 | 17.000000 | 0.006556 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 40 | 8.000000 | 0.003085 | PASS |
| N41 | 30 | 20 | CP-QPSK | L | Outer Full | NV | 50 | 13.000000 | 0.005014 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VL | NT | 6.000000 | 0.002314 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VN | NT | 6.000000 | 0.002314 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | VH | NT | 10.000000 | 0.003857 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -30 | 6.000000 | 0.002314 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -20 | 7.000000 | 0.002612 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | -10 | 9.000000 | 0.003358 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 0 | 13.000000 | 0.004851 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 10 | 1.000000 | 0.000373 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 20 | 5.000000 | 0.001866 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 30 | 14.000000 | 0.005224 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 40 | 7.000000 | 0.002612 | PASS |
| N41 | 30 | 20 | CP-QPSK | M | Outer Full | NV | 50 | 6.000000 | 0.002239 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VL | NT | 4.000000 | 0.001596 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VN | NT | 6.000000 | 0.002394 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | VH | NT | 4.000000 | 0.001596 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -30 | 1.000000 | 0.000399 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -20 | 19.000000 | 0.007582 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | -10 | 12.000000 | 0.004788 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 0 | 9.000000 | 0.003591 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 10 | 6.000000 | 0.002394 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 20 | 12.000000 | 0.004628 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 30 | 14.000000 | 0.005399 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 40 | 9.000000 | 0.003471 | PASS |
| N41 | 30 | 20 | CP-QPSK | H | Outer Full | NV | 50 | 8.000000 | 0.003085 | PASS |



Reference No.: W7L-240430W002RF01

N77_UL_MIMO-3700-3980

PEAK-TO-AVERAGE RATIO FOR MIMO PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT-ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N77-3700-3980 | 30 | 20 | CP-QPSK | L | Outer_Full | 6.74 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | 4.80 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | M | Outer_Full | 7.40 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | M | Edge_1RB_Left | 4.42 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | H | Outer_Full | 6.92 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | H | Edge_1RB_Left | 4.70 | ≤13 | PASS |

TEST RESULT-ANT1

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N77-3700-3980 | 30 | 20 | CP-QPSK | L | Outer_Full | 6.48 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | L | Edge_1RB_Left | 4.32 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | M | Outer_Full | 7.02 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | M | Edge_1RB_Left | 4.22 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | H | Outer_Full | 6.76 | ≤13 | PASS |
| N77-3700-3980 | 30 | 20 | CP-QPSK | H | Edge_1RB_Left | 4.38 | ≤13 | PASS |



Reference No.: W7L-240430W002RF01

TEST GRAPHS-ANT2

