

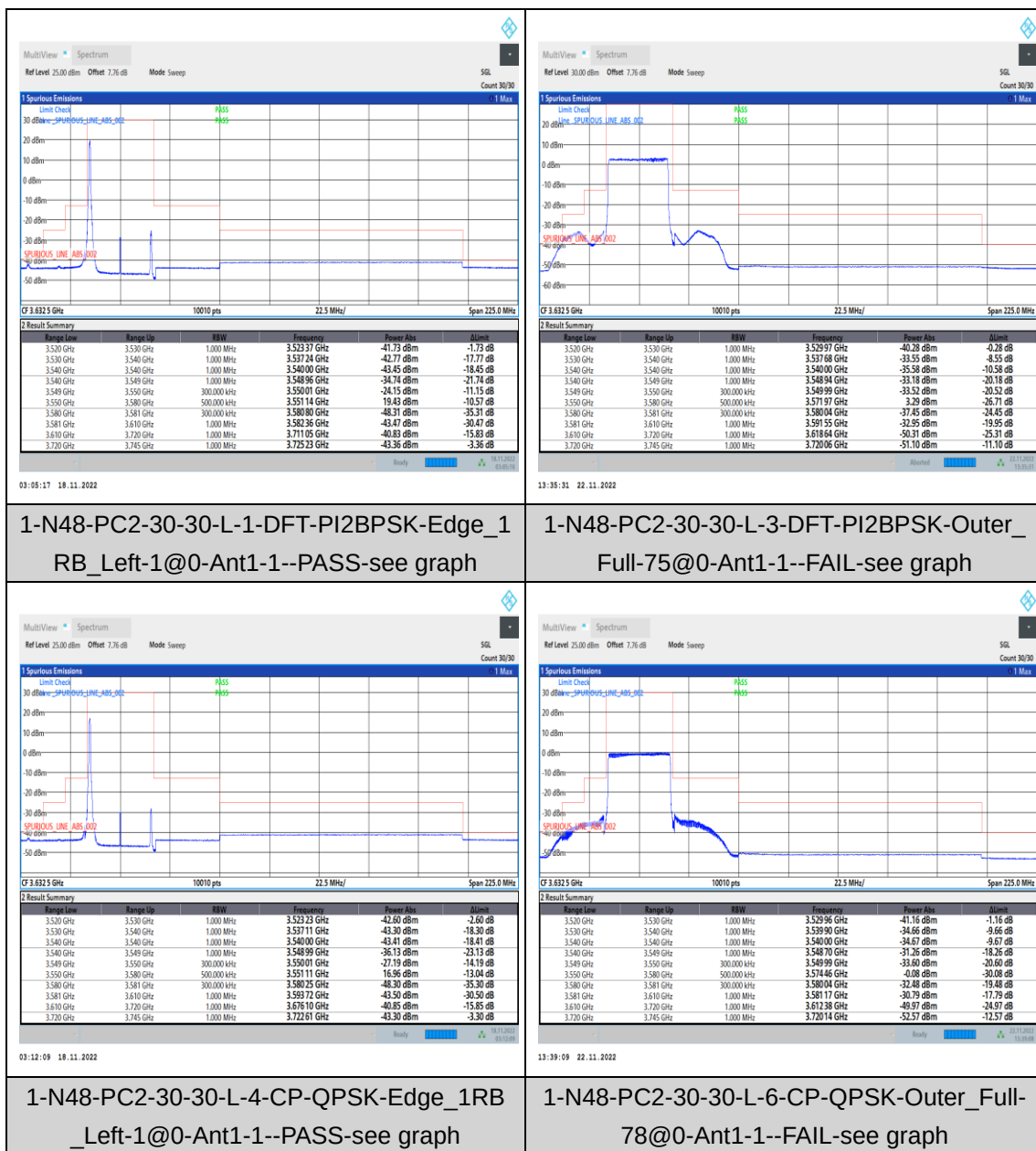


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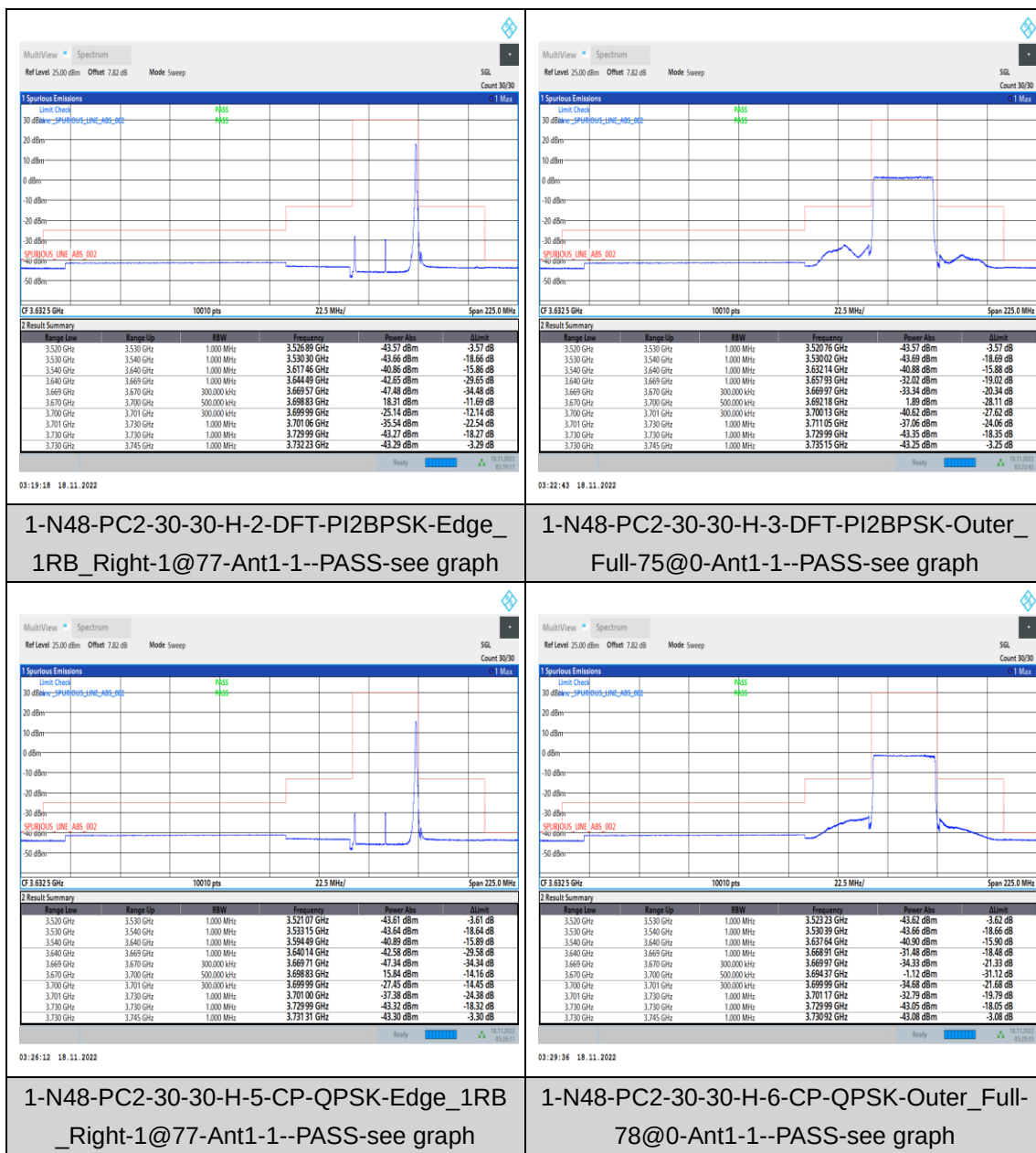


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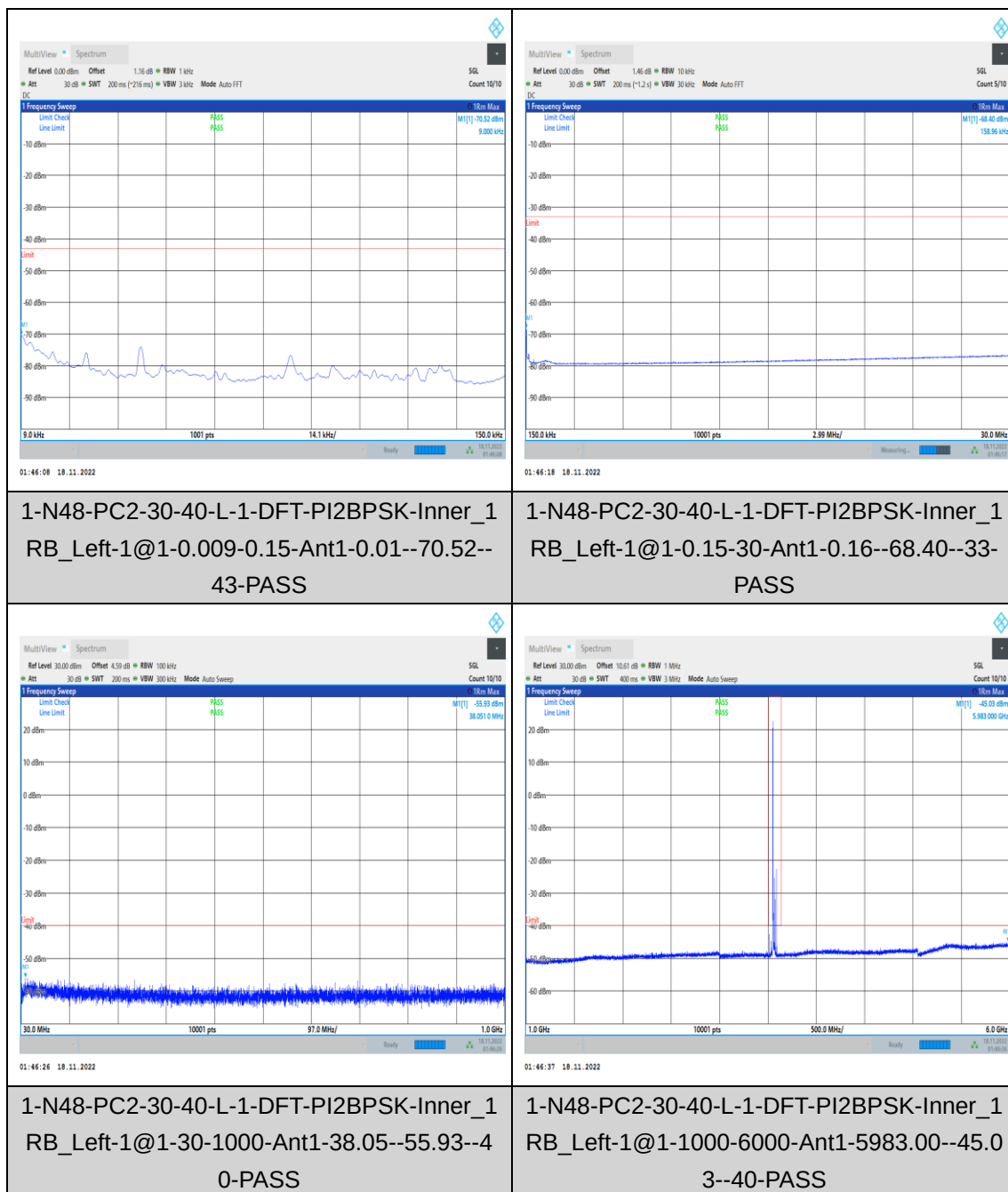
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## Conducted Spurious Emission for SA

## Test Graphs

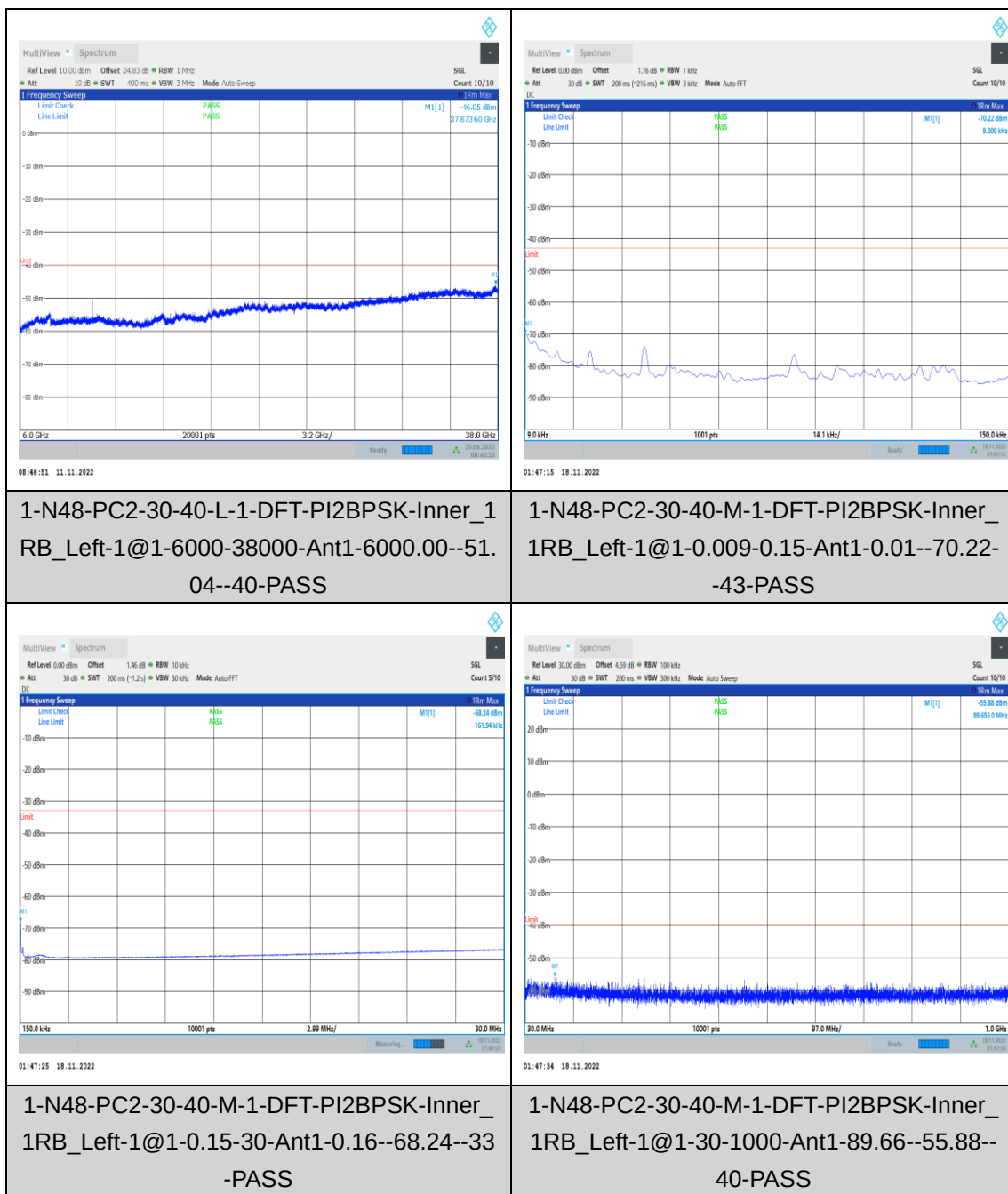


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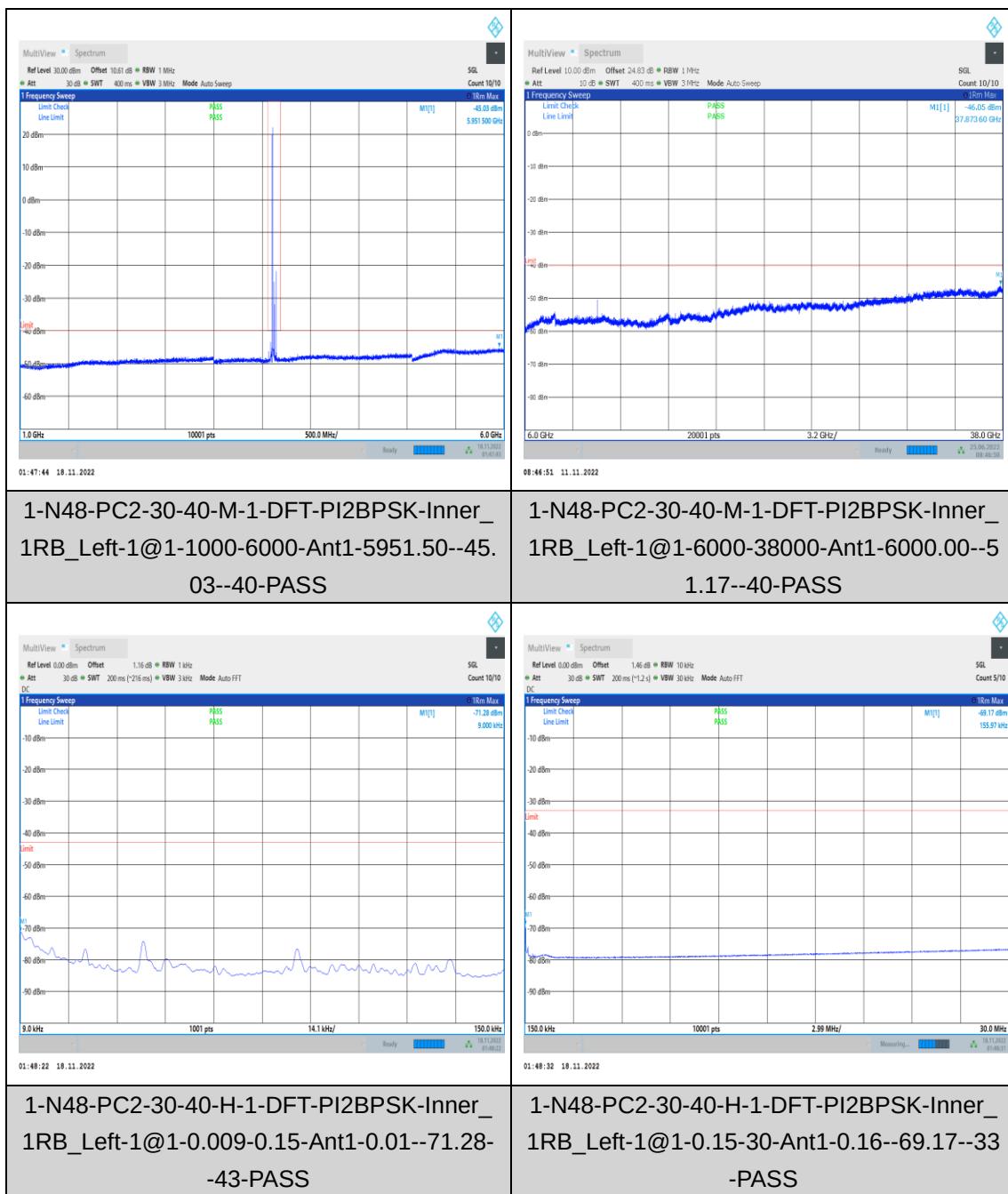
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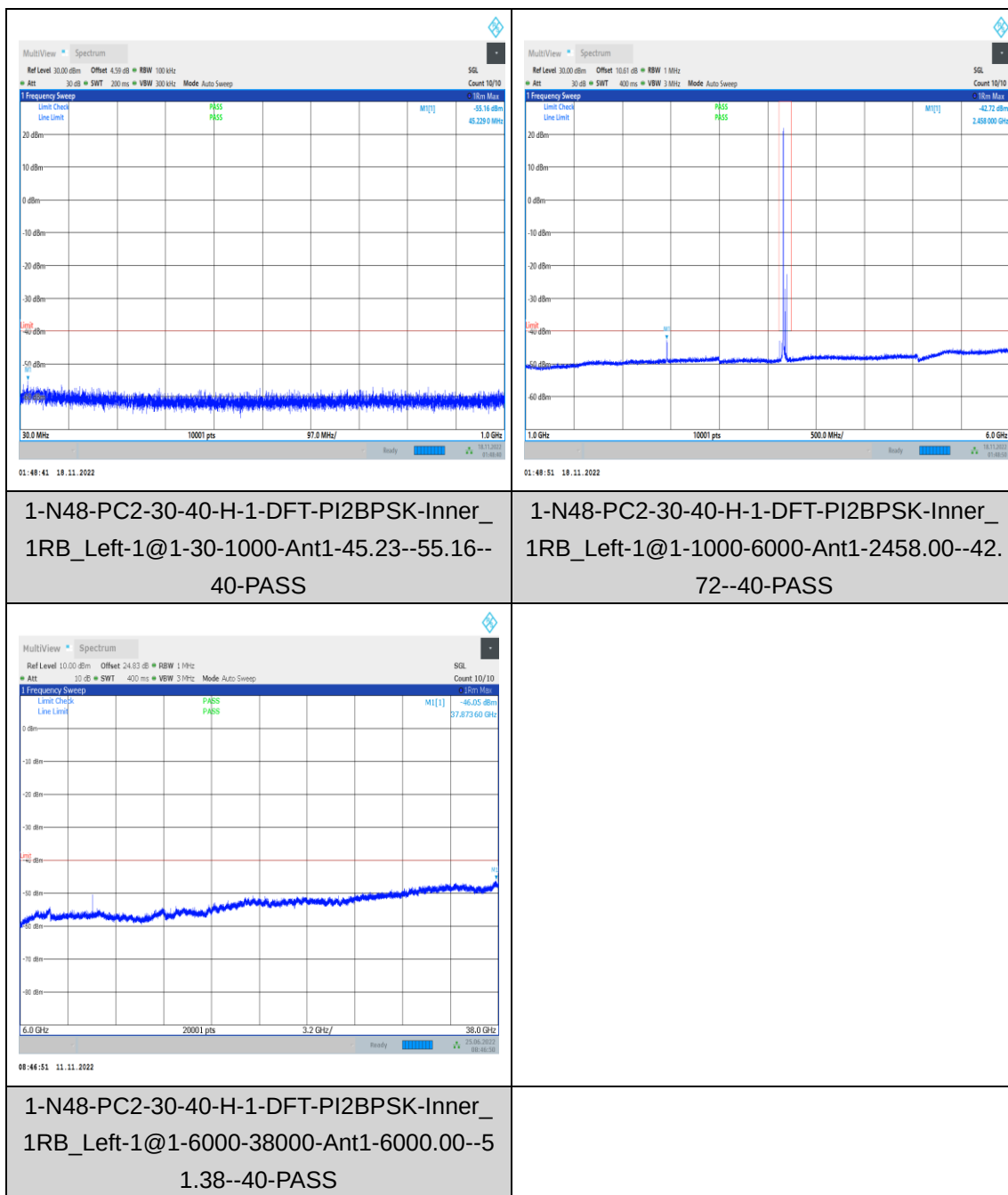
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## Frequency Stability for SA

## Test Result

## Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -5.600000     | -0.001545       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | -5.100000     | -0.001407       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -8.800000     | -0.002428       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -2.100000     | -0.000579       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VH      | NT          | 0.000000      | 0.000000        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 3.500000      | 0.000966        | PASS    |

## Frequency Error VS. Temperature

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -2.300000     | -0.000634       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -2.700000     | -0.000745       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 1.800000      | 0.000497        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 0.200000      | 0.000055        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | 3.000000      | 0.000828        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -0.700000     | -0.000193       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -4.300000     | -0.001186       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 1.800000      | 0.000497        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | 3.300000      | 0.000910        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -3.700000     | -0.001021       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -4.800000     | -0.001324       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -10         | 4.700000      | 0.001297        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -3.600000     | -0.000993       | PASS    |



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|     |    |    |         |   |            |    |    |           |           |      |
|-----|----|----|---------|---|------------|----|----|-----------|-----------|------|
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | NV | 10 | 3.100000  | 0.000855  | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | NV | 20 | 3.100000  | 0.000855  | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | NV | 30 | -1.300000 | -0.000359 | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | NV | 40 | -7.200000 | -0.001986 | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | NV | 50 | 3.300000  | 0.000910  | PASS |



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## Modulation characteristics for SA

## Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result    | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------|---------|
| N48  | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | DFT-QPSK    | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | DFT-16QAM   | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | DFT-64QAM   | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | DFT-256QAM  | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | CP-QPSK     | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | CP-16QAM    | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | CP-64QAM    | M       | Outer_Full | see graph | PASS    |
| N48  | 30  | 40        | CP-256QAM   | M       | Outer_Full | see graph | PASS    |



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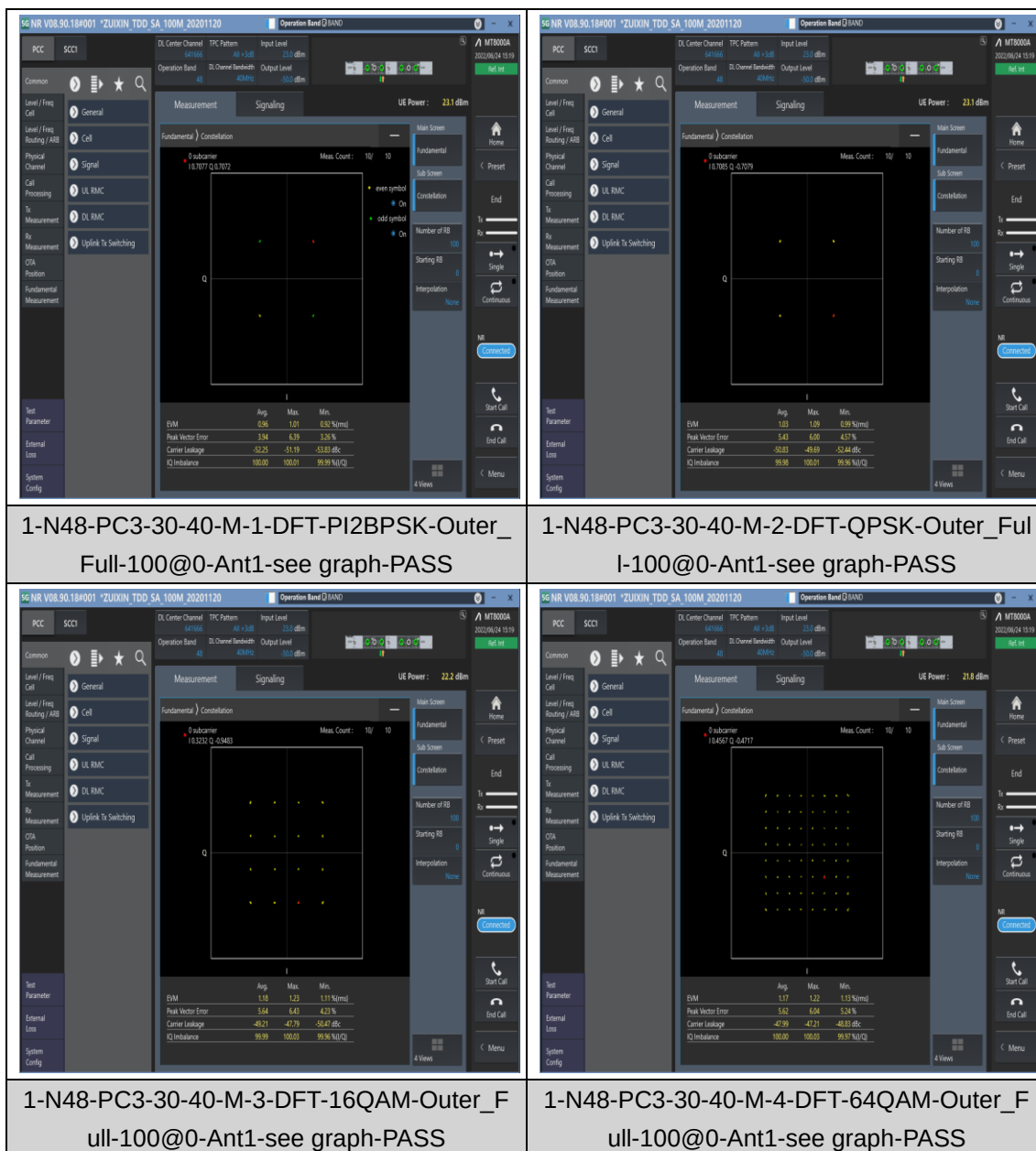
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### Test Graphs

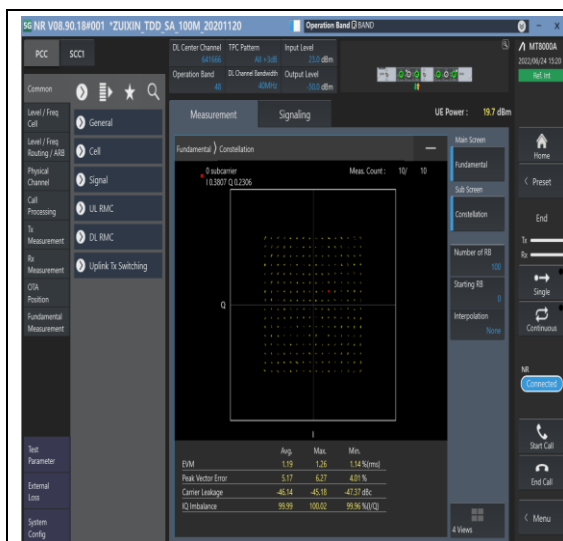


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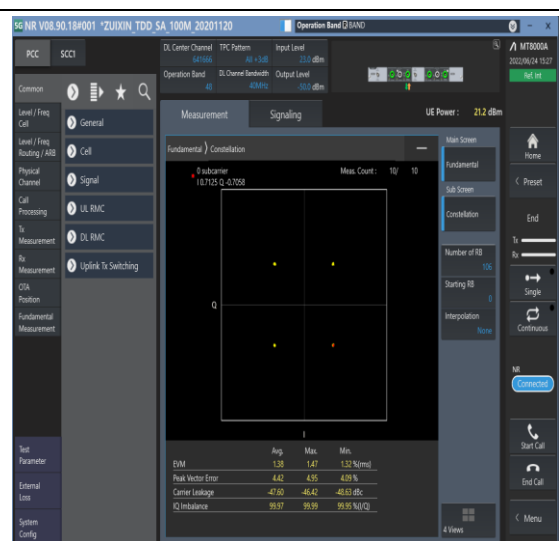
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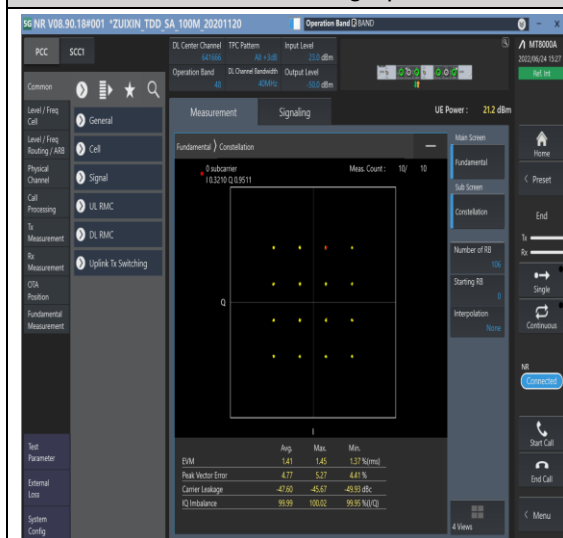
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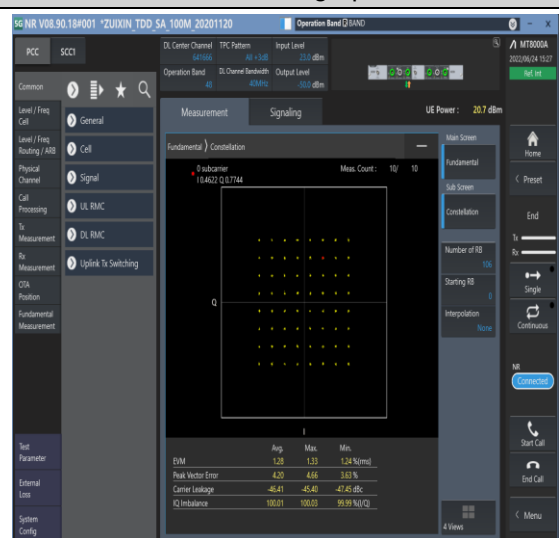
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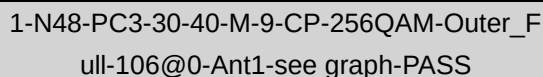


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## Power Spectral Density Test Result

## Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Result | EIRP  | Limit | Verdict |
|------|-----|-----------|-------------|---------|-----------------|--------|-------|-------|---------|
| N48  | 30  | 10        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 20.44  | 19.86 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | L       | Inner_1RB_Right | 20.87  | 20.29 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | L       | Outer_Full      | 19.75  | 19.17 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | M       | Inner_1RB_Left  | 20.63  | 20.05 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | M       | Inner_1RB_Right | 20.31  | 19.73 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | M       | Outer_Full      | 18.66  | 18.08 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | H       | Inner_1RB_Left  | 20.05  | 19.47 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | H       | Inner_1RB_Right | 20.09  | 19.51 | 23    | PASS    |
| N48  | 30  | 10        | DFT-PI2BPSK | H       | Outer_Full      | 18.83  | 18.25 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 20.93  | 20.35 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | L       | Inner_1RB_Right | 20.85  | 20.27 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | L       | Outer_Full      | 18.03  | 17.45 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | Inner_1RB_Left  | 20.85  | 20.27 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | Inner_1RB_Right | 19.80  | 19.22 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | Outer_Full      | 17.69  | 17.11 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | Inner_1RB_Left  | 19.65  | 19.07 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | Inner_1RB_Right | 20.12  | 19.54 | 23    | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | Outer_Full      | 16.68  | 16.10 | 23    | PASS    |
| N48  | 30  | 30        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 20.35  | 19.77 | 23    | PASS    |
| N48  | 30  | 30        | DFT-PI2BPSK | L       | Inner_1RB_Right | 20.43  | 19.85 | 23    | PASS    |
| N48  | 30  | 30        | DFT-PI2BPSK | L       | Outer_Full      | 16.16  | 15.58 | 23    | PASS    |
| N48  | 30  | 30        | DFT-PI2BPSK | M       | Inner_1RB_Left  | 20.86  | 20.28 | 23    | PASS    |



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|     |    |    |             |   |                 |       |       |    |      |
|-----|----|----|-------------|---|-----------------|-------|-------|----|------|
| N48 | 30 | 30 | DFT-PI2BPSK | M | Inner_1RB_Right | 20.85 | 20.27 | 23 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | M | Outer_Full      | 16.88 | 16.30 | 23 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | Inner_1RB_Left  | 20.86 | 20.28 | 23 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | Inner_1RB_Right | 20.38 | 19.80 | 23 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | Outer_Full      | 16.22 | 15.64 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | Inner_1RB_Left  | 20.92 | 20.34 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | Inner_1RB_Right | 21.38 | 20.80 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | Outer_Full      | 15.29 | 14.71 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Inner_1RB_Left  | 20.50 | 19.92 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Inner_1RB_Right | 20.23 | 19.65 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Outer_Full      | 15.27 | 14.69 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | Inner_1RB_Left  | 19.90 | 19.32 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | Inner_1RB_Right | 19.76 | 19.18 | 23 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | Outer_Full      | 14.03 | 13.45 | 23 | PASS |



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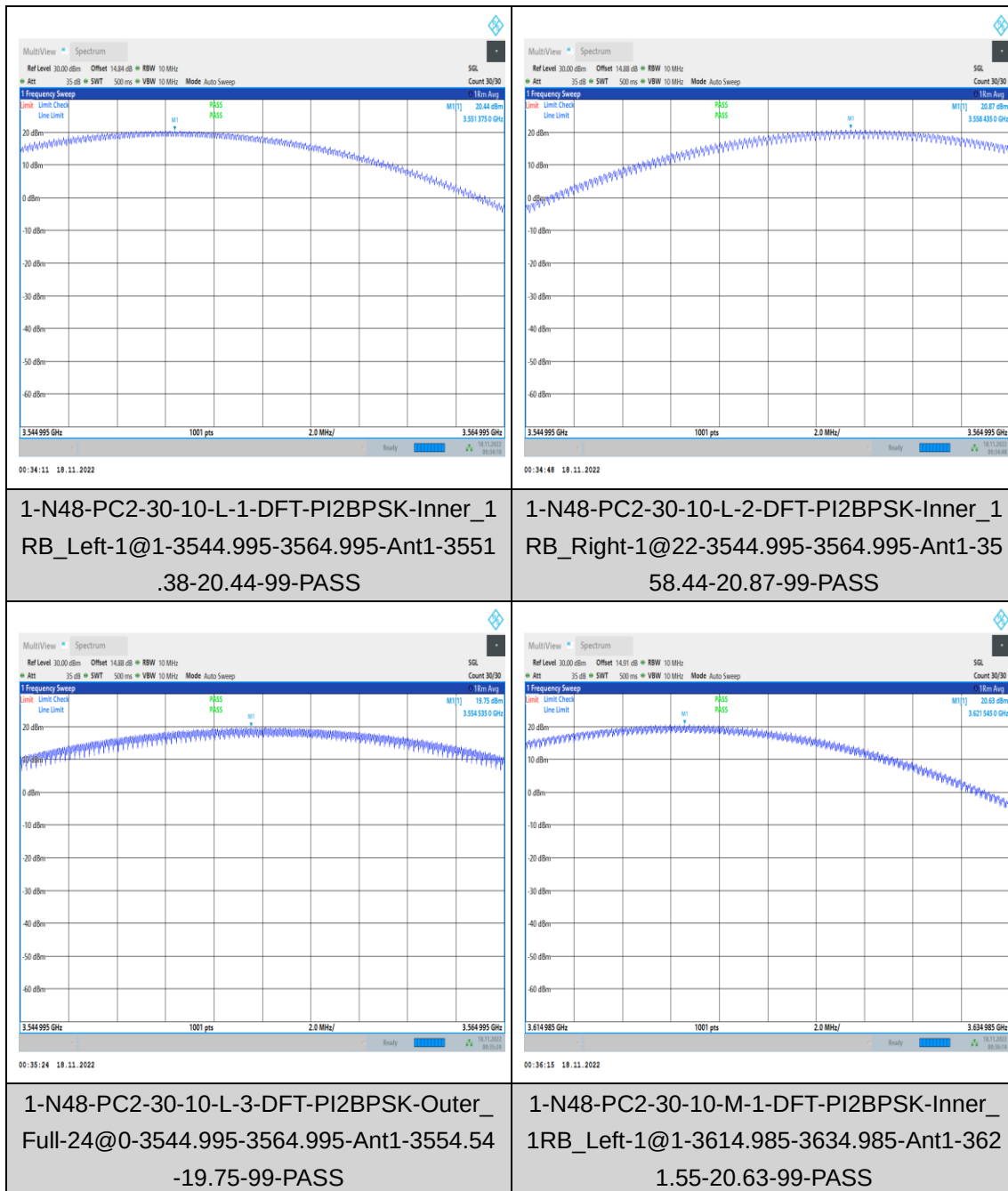
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### Test Graphs

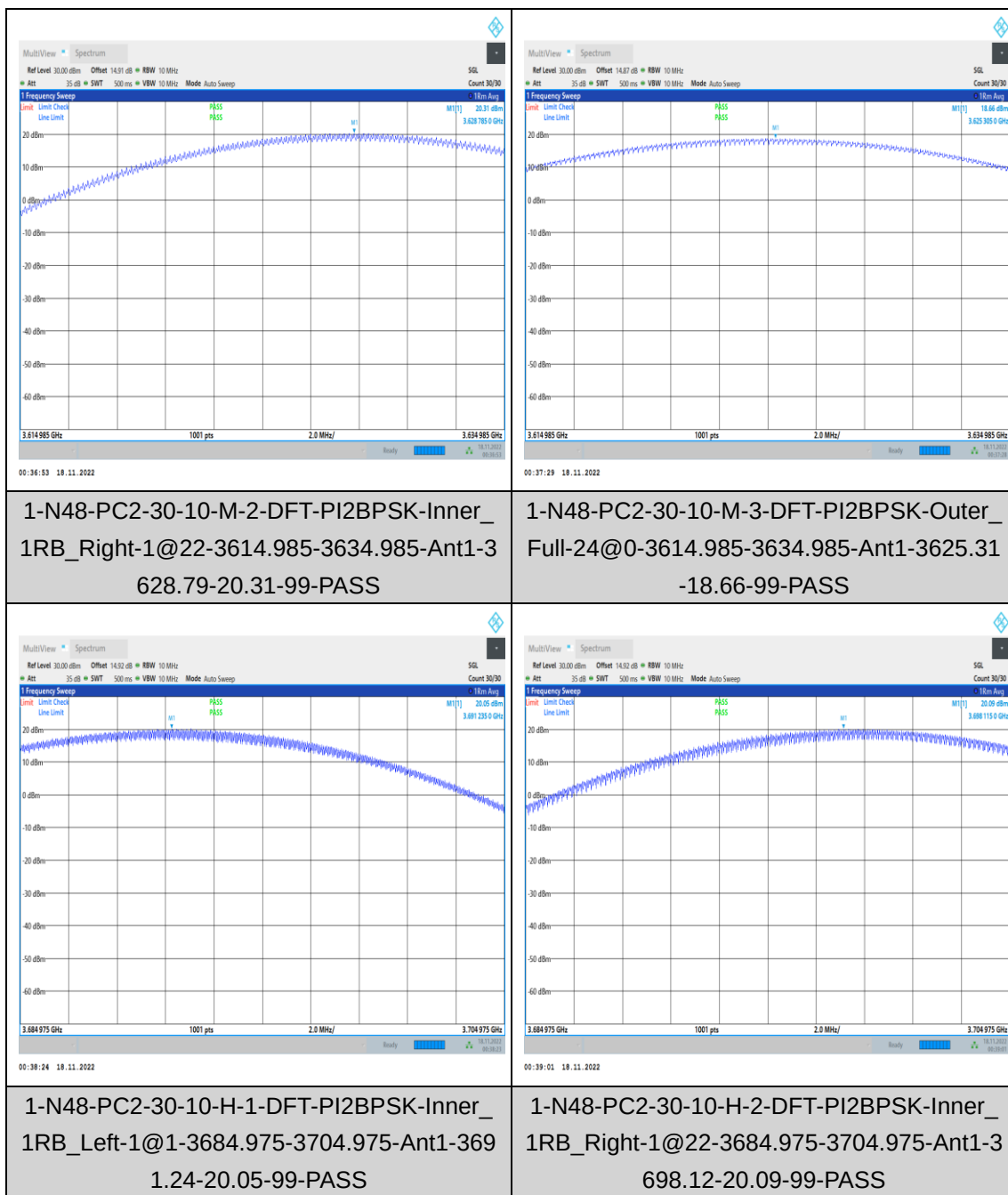


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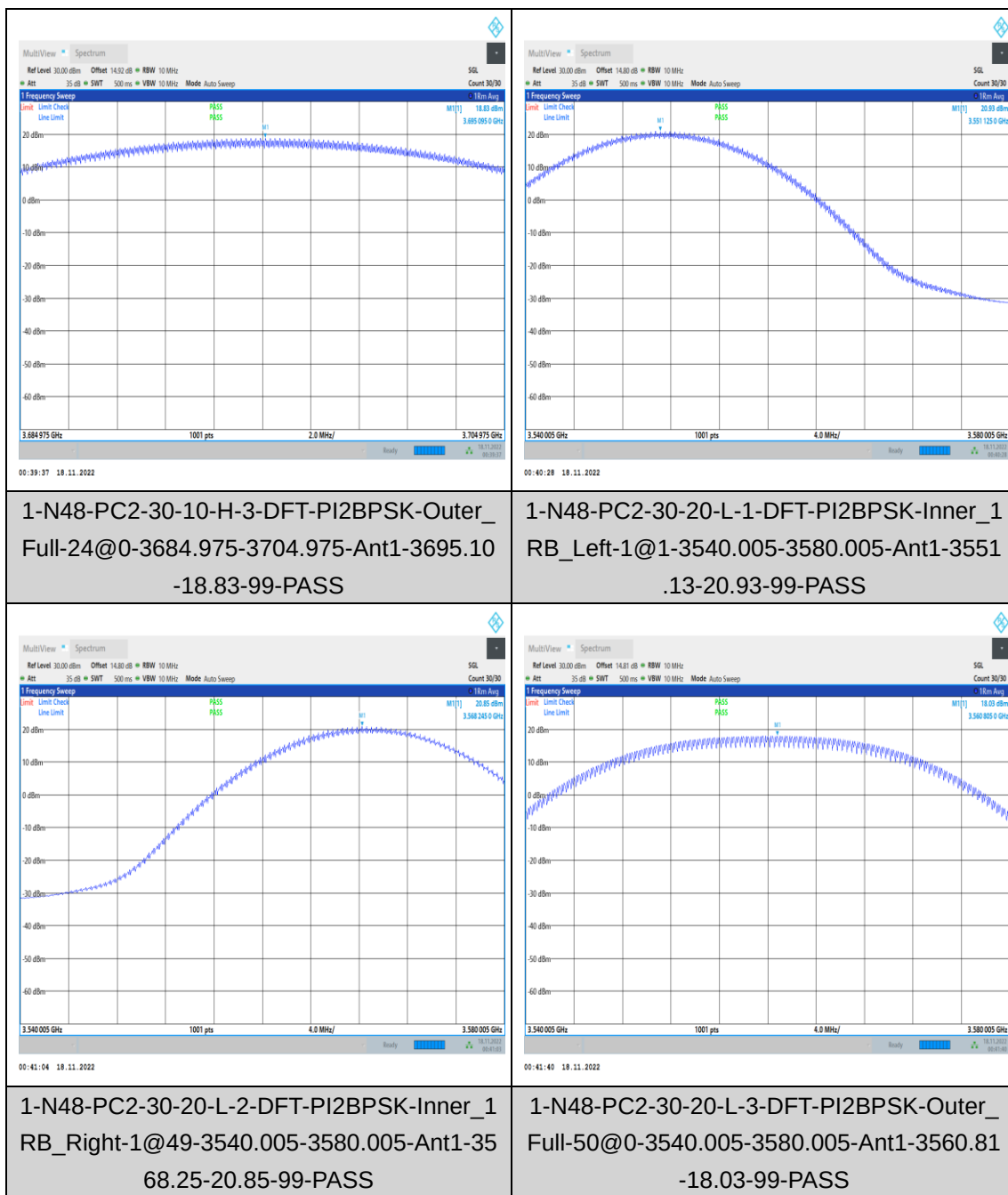


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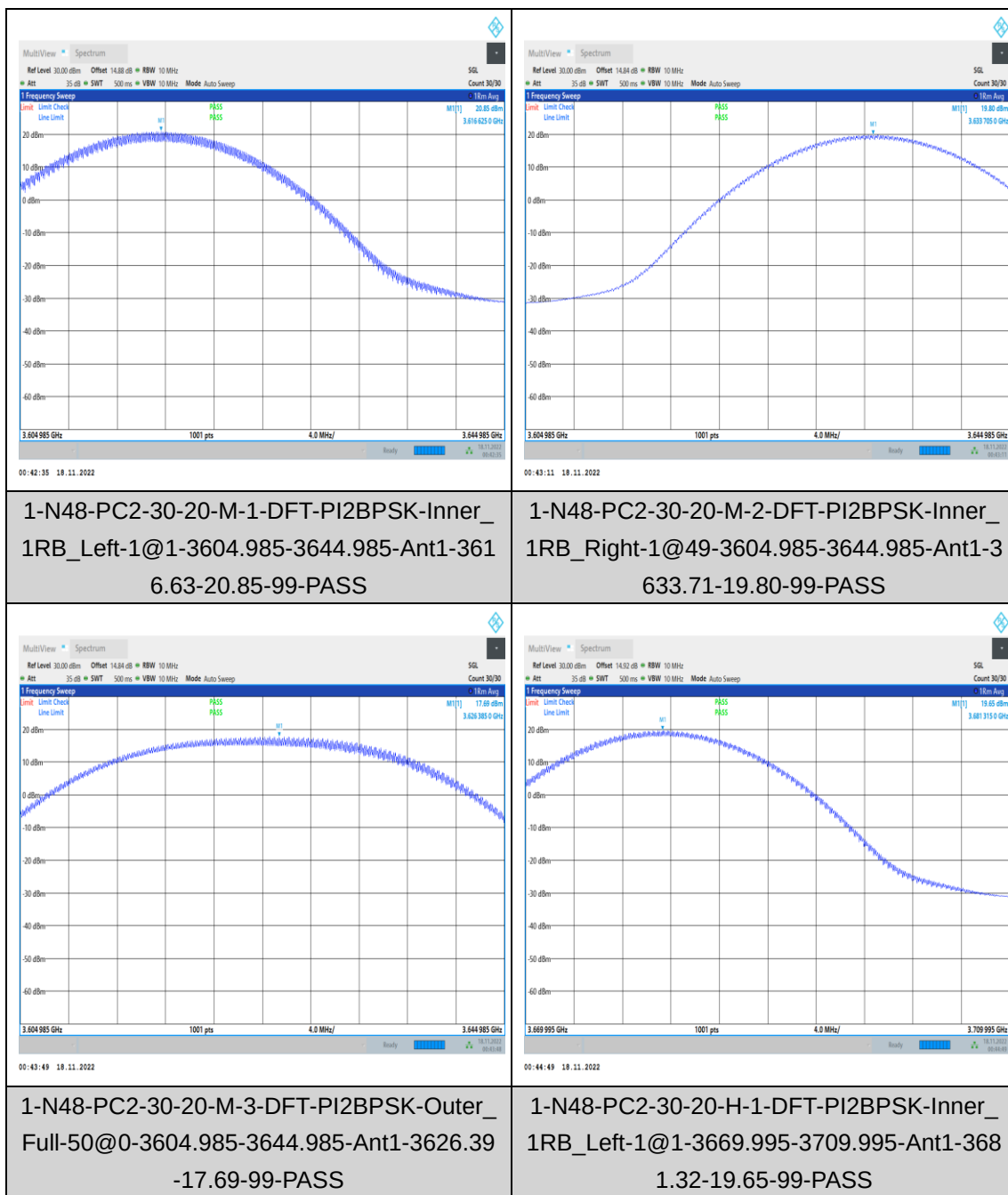


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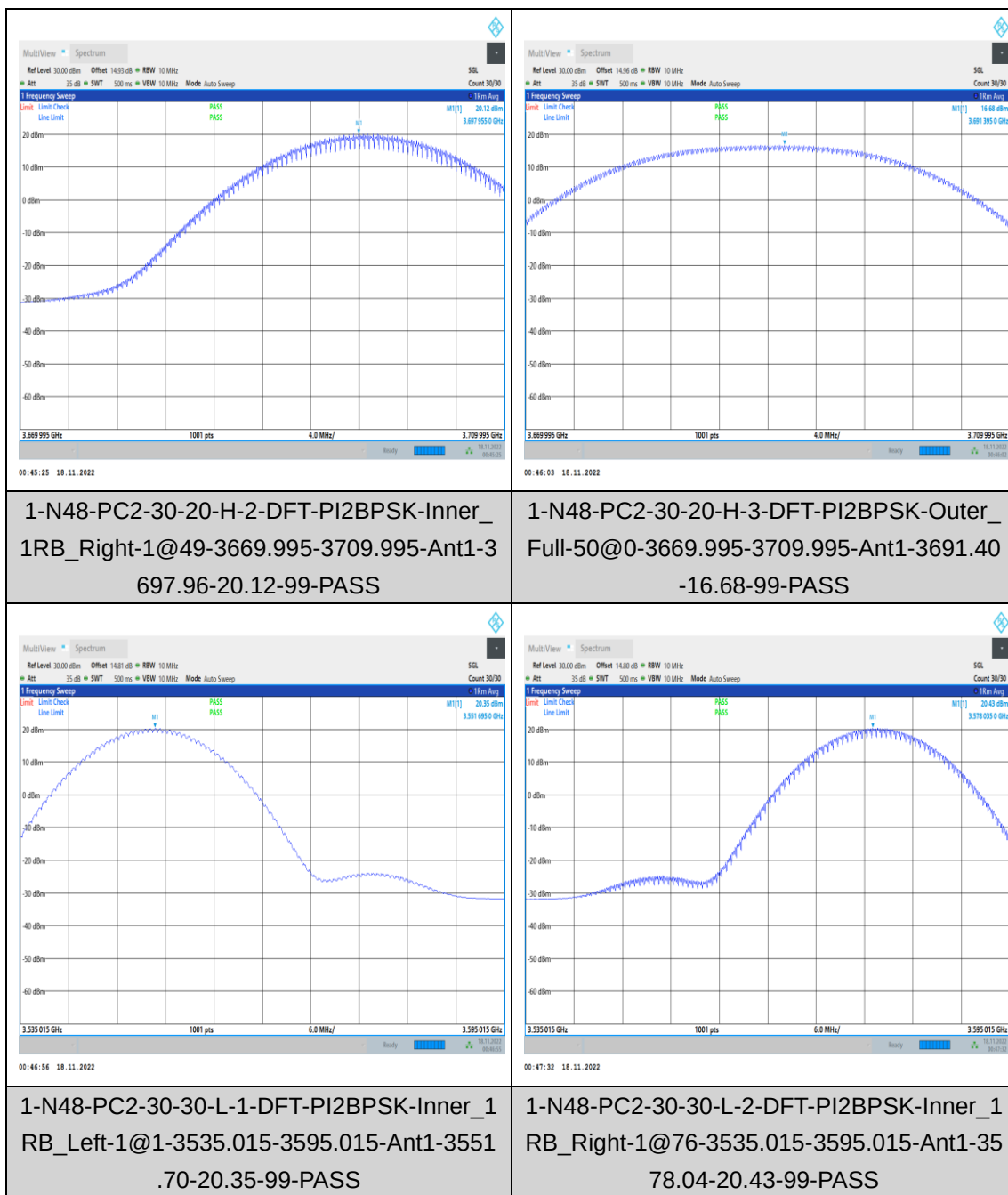
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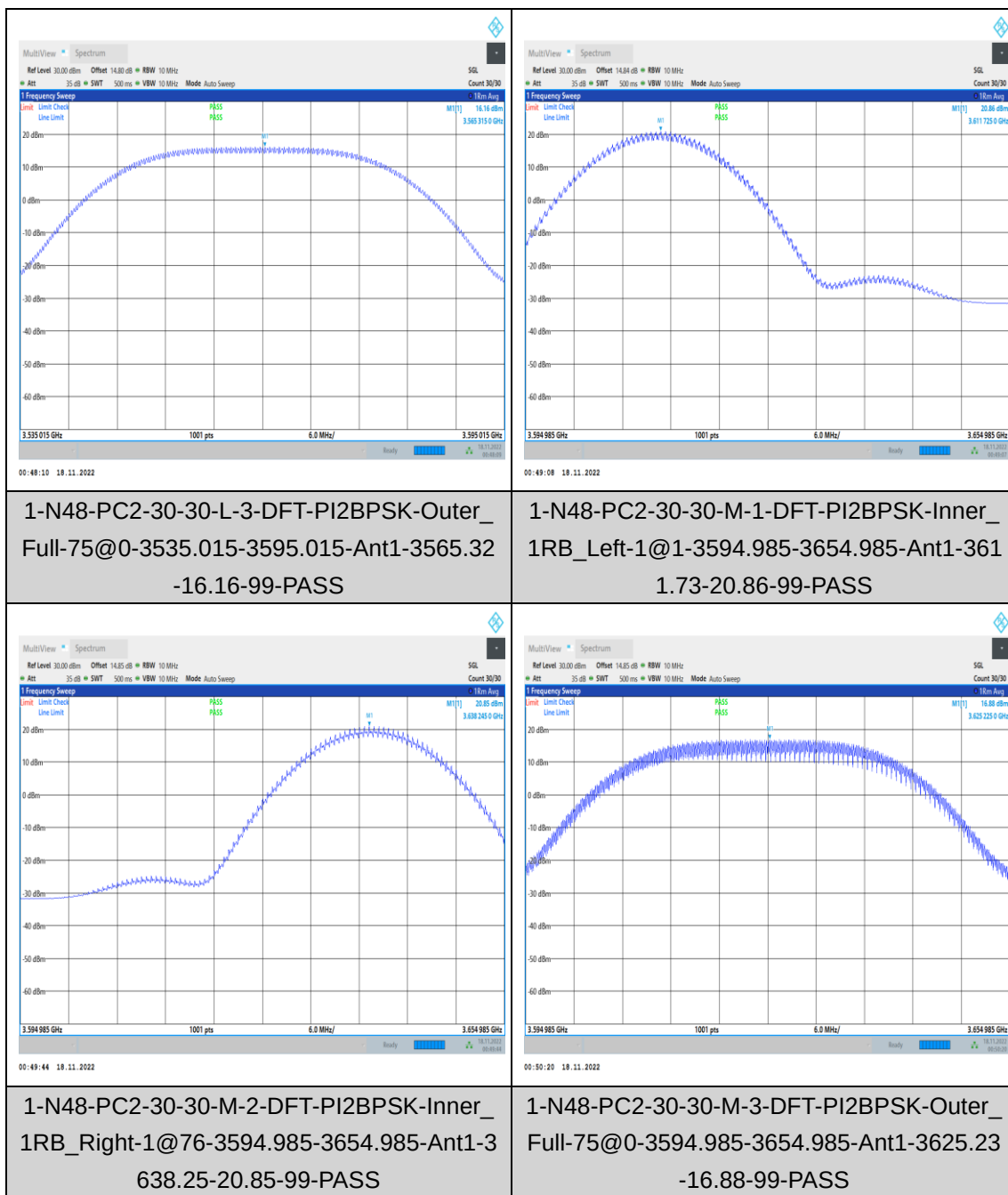


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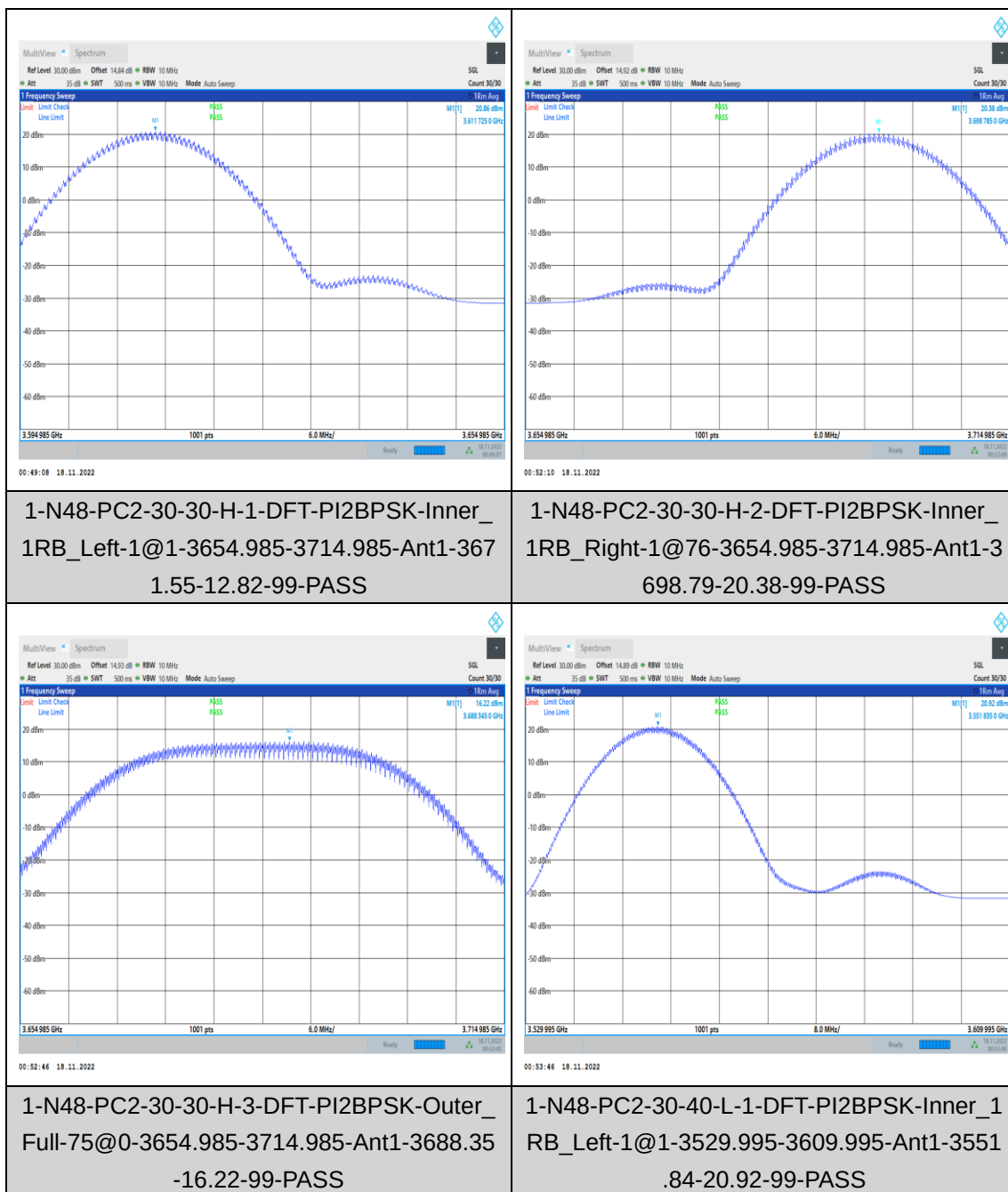


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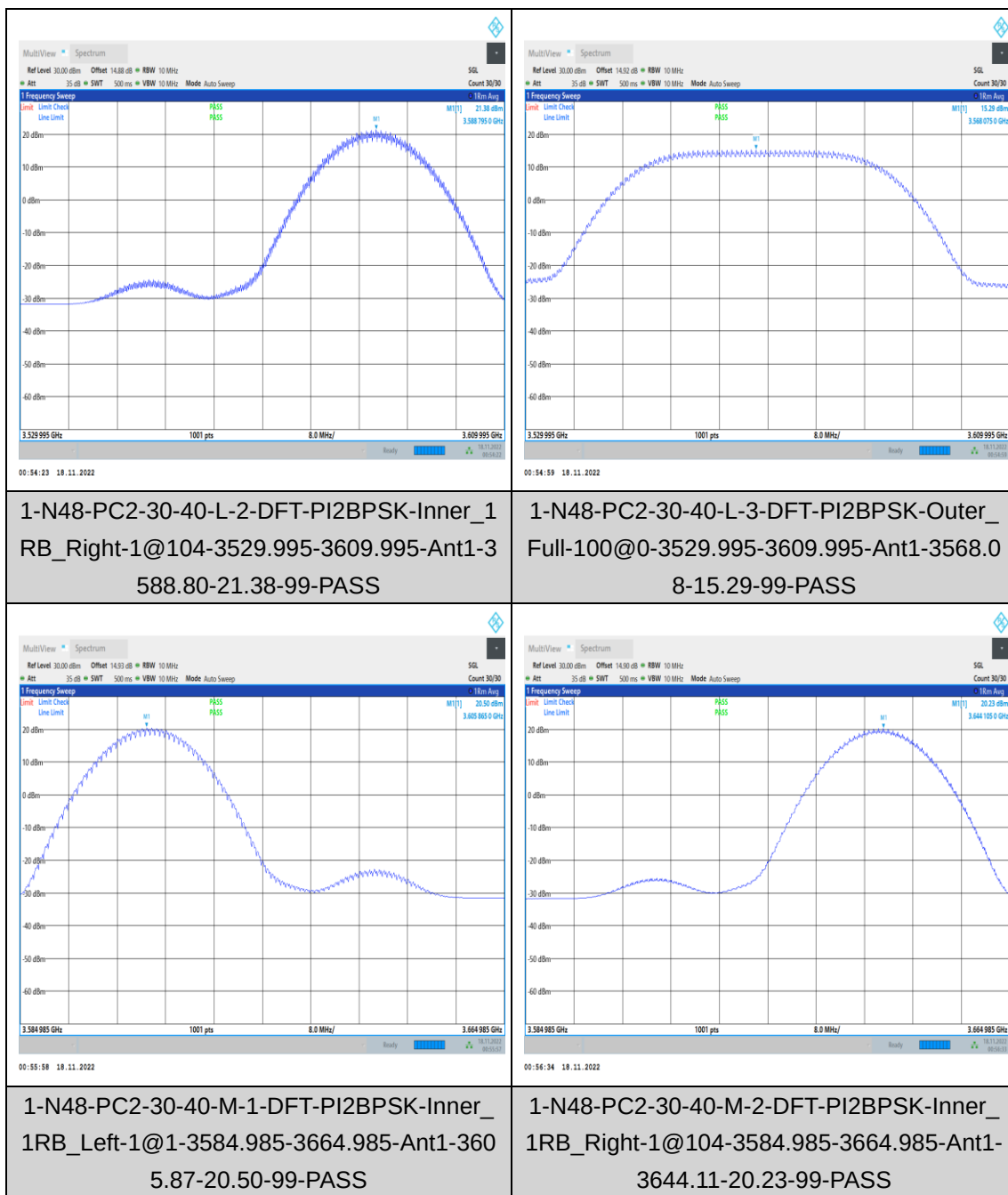


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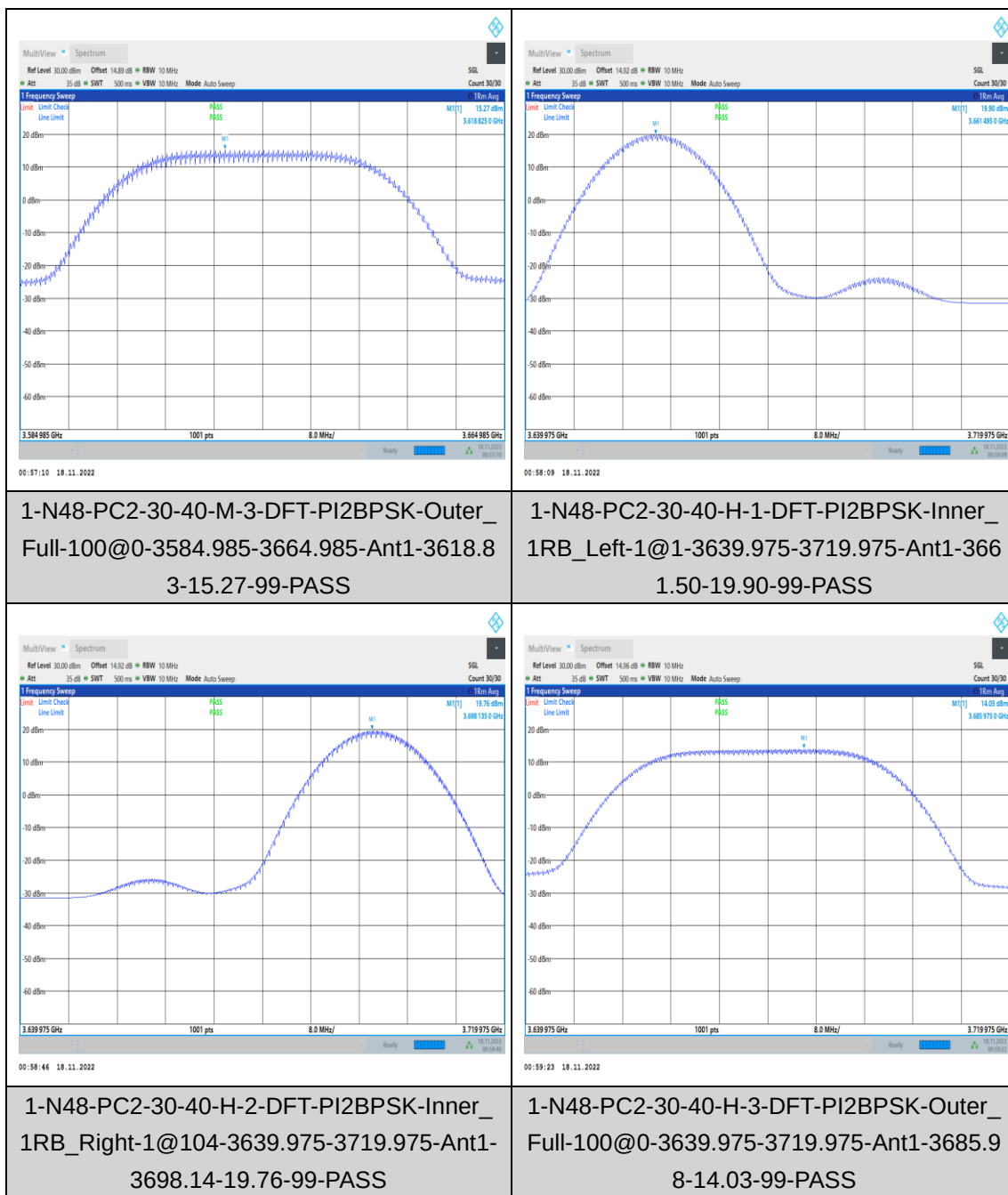


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