

# **Appendix for n26A (824-849)**

## Catalogue

|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| <b>1. EFFECTIVE RADIATED POWER .....</b>                             | <b>3</b>  |
| 1.1. TEST RESULTS @ ANT0 (ANTENNA GAIN=-3.80DBI) .....               | 3         |
| <b>2. PEAK-TO-AVERAGE RATIO .....</b>                                | <b>5</b>  |
| 2.1. TEST RESULTS .....                                              | 5         |
| 2.2. TEST PLOTS FOR SCS=15KHZ.....                                   | 5         |
| <b>3. MODULATION CHARACTERISTICS .....</b>                           | <b>6</b>  |
| 3.1. TEST PLOTS FOR SCS=15KHZ.....                                   | 6         |
| <b>4. 99% OCCUPIED BANDWIDTH &amp; 26DB EMISSION BANDWIDTH .....</b> | <b>7</b>  |
| 4.1. TEST RESULTS .....                                              | 7         |
| 4.2. TEST PLOTS FOR SCS=15KHZ.....                                   | 8         |
| <b>5. CONDUCTED BAND EDGES.....</b>                                  | <b>12</b> |
| 5.1. TEST PLOTS FOR SCS=15KHZ.....                                   | 12        |
| <b>6. CONDUCTED SPURIOUS EMISSION .....</b>                          | <b>17</b> |
| 6.1. TEST PLOTS FOR SCS=15KHZ.....                                   | 17        |
| <b>7. FREQUENCY STABILITY.....</b>                                   | <b>21</b> |
| 7.1. TEST RESULTS .....                                              | 21        |

## 1. Effective Radiated Power

### 1.1. Test Results @ Ant0 (Antenna Gain=-3.80dBi)

| SCS   | Bandwidth | Channel | Modulation  | Conducted Result (dBm) |                 |            | Max ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|---------|-------------|------------------------|-----------------|------------|---------------|-------------|---------|
|       |           |         |             | Inner_1RB_Left         | Inner_1RB_Right | Inner_Full |               |             |         |
| 15KHz | 5MHz      | LCH     | DFT-Pi2BPSK | 23.10                  | 23.14           | 23.18      | 17.23         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-QPSK    | 22.97                  | 22.99           | 23.18      | 17.23         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-16QAM   | 22.55                  | 22.54           | 22.22      | 16.60         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-64QAM   | 20.92                  | 20.97           | 20.81      | 15.02         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-256QAM  | 18.75                  | 18.78           | 18.78      | 12.83         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | CP-QPSK     | 21.67                  | 21.70           | 21.75      | 15.80         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-Pi2BPSK | 22.97                  | 23.17           | 23.20      | 17.25         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-QPSK    | 22.82                  | 23.05           | 23.18      | 17.23         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-16QAM   | 22.36                  | 22.63           | 22.23      | 16.68         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-64QAM   | 20.74                  | 20.99           | 20.79      | 15.04         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-256QAM  | 18.60                  | 18.89           | 18.79      | 12.94         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | CP-QPSK     | 21.51                  | 21.73           | 21.72      | 15.78         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-Pi2BPSK | 23.12                  | 23.12           | 23.28      | 17.33         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-QPSK    | 23.03                  | 23.01           | 23.31      | 17.36         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-16QAM   | 22.54                  | 22.58           | 22.28      | 16.63         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-64QAM   | 20.98                  | 20.88           | 20.87      | 15.03         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-256QAM  | 18.76                  | 18.81           | 18.88      | 12.93         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | CP-QPSK     | 21.67                  | 21.63           | 21.83      | 15.88         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-Pi2BPSK | 23.11                  | 23.10           | 23.20      | 17.25         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-QPSK    | 22.97                  | 22.96           | 23.18      | 17.23         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-16QAM   | 22.42                  | 22.42           | 22.27      | 16.47         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-64QAM   | 20.97                  | 20.93           | 20.82      | 15.02         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-256QAM  | 18.76                  | 18.67           | 18.70      | 12.81         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | CP-QPSK     | 21.62                  | 21.58           | 21.76      | 15.81         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-Pi2BPSK | 23.21                  | 23.31           | 23.14      | 17.36         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-QPSK    | 23.06                  | 23.15           | 23.15      | 17.20         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-16QAM   | 22.53                  | 22.57           | 22.26      | 16.62         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-64QAM   | 20.90                  | 21.16           | 20.80      | 15.21         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-256QAM  | 18.82                  | 18.96           | 18.71      | 13.01         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | CP-QPSK     | 21.71                  | 21.78           | 21.70      | 15.83         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-Pi2BPSK | 23.28                  | 23.13           | 23.29      | 17.34         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-QPSK    | 23.08                  | 23.04           | 23.29      | 17.34         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-16QAM   | 22.71                  | 22.58           | 22.37      | 16.76         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-64QAM   | 21.09                  | 20.96           | 20.90      | 15.14         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-256QAM  | 18.96                  | 18.80           | 18.83      | 13.01         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | CP-QPSK     | 21.76                  | 21.68           | 21.78      | 15.83         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-Pi2BPSK | 23.12                  | 23.24           | 23.19      | 17.29         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-QPSK    | 23.04                  | 23.12           | 23.18      | 17.23         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-16QAM   | 22.49                  | 22.61           | 22.28      | 16.66         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-64QAM   | 20.91                  | 21.08           | 20.79      | 15.13         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-256QAM  | 18.70                  | 18.90           | 18.75      | 12.95         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | CP-QPSK     | 21.62                  | 21.83           | 21.77      | 15.88         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-Pi2BPSK | 23.15                  | 23.21           | 23.17      | 17.26         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-QPSK    | 23.06                  | 23.10           | 23.16      | 17.21         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-16QAM   | 22.51                  | 22.67           | 22.21      | 16.72         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-64QAM   | 21.02                  | 21.10           | 20.75      | 15.15         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-256QAM  | 18.80                  | 18.83           | 18.68      | 12.88         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | CP-QPSK     | 21.73                  | 21.76           | 21.72      | 15.81         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-Pi2BPSK | 22.97                  | 23.15           | 23.27      | 17.32         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-QPSK    | 22.83                  | 23.10           | 23.30      | 17.35         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-16QAM   | 22.38                  | 22.59           | 22.34      | 16.64         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-64QAM   | 20.85                  | 21.03           | 20.87      | 15.08         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-256QAM  | 18.65                  | 18.87           | 18.82      | 12.92         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | CP-QPSK     | 21.56                  | 21.81           | 21.82      | 15.87         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-Pi2BPSK | 23.14                  | 23.25           | 23.20      | 17.30         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-QPSK    | 23.02                  | 23.15           | 23.17      | 17.22         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-16QAM   | 22.49                  | 22.73           | 22.23      | 16.78         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-64QAM   | 21.02                  | 21.22           | 20.75      | 15.27         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-256QAM  | 18.80                  | 18.91           | 18.72      | 12.96         | 38.45       | Pass    |

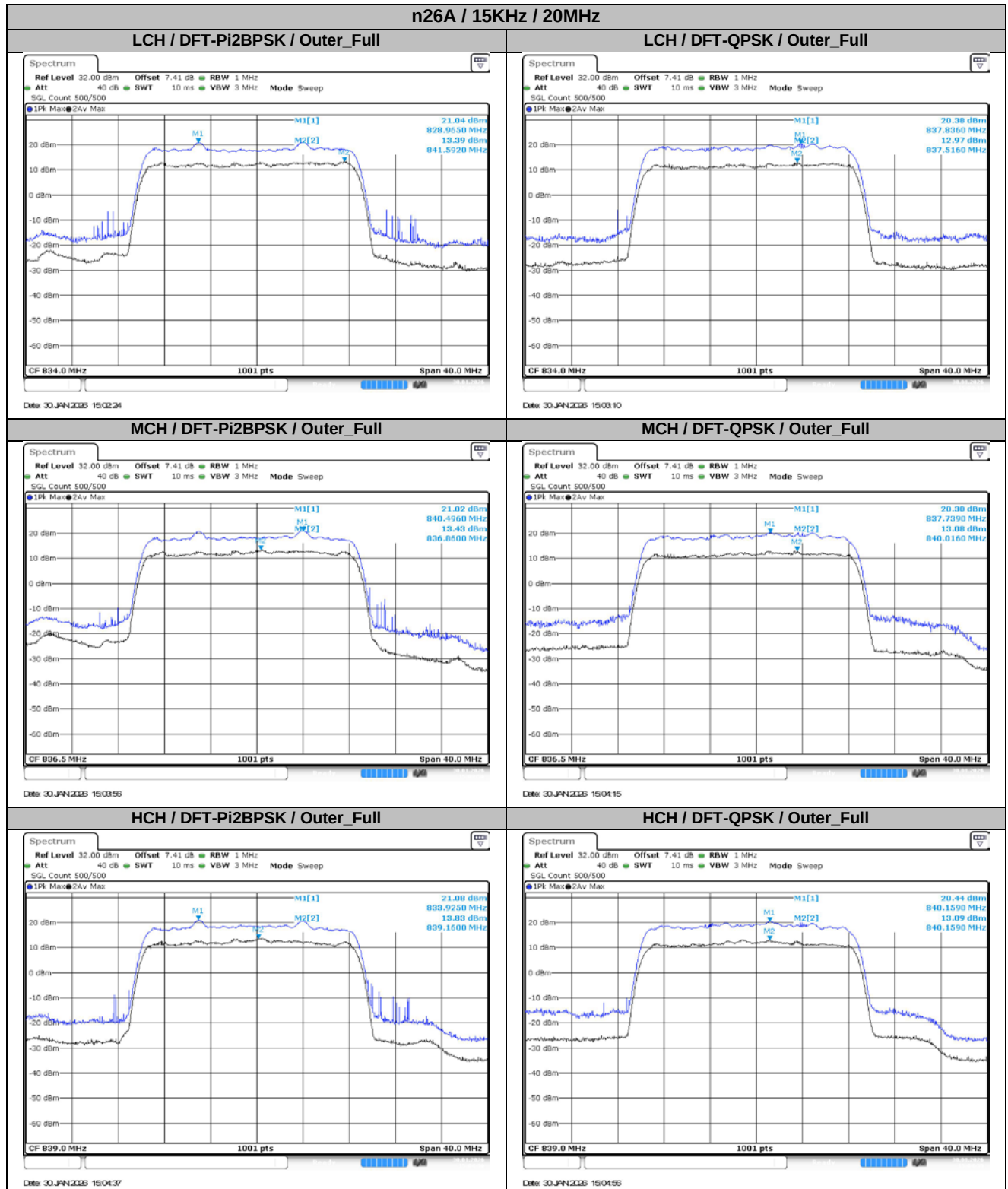
|       |       |     |             |       |       |       |       |       |      |
|-------|-------|-----|-------------|-------|-------|-------|-------|-------|------|
| 15KHz | 20MHz | LCH | CP-QPSK     | 21.70 | 21.77 | 21.69 | 15.82 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-Pi2BPSK | 23.10 | 23.24 | 23.17 | 17.29 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-QPSK    | 23.00 | 23.13 | 23.20 | 17.25 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-16QAM   | 22.40 | 22.65 | 22.24 | 16.70 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-64QAM   | 20.95 | 21.16 | 20.77 | 15.21 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-256QAM  | 18.70 | 18.92 | 18.74 | 12.97 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | CP-QPSK     | 21.56 | 21.66 | 21.73 | 15.78 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-Pi2BPSK | 23.20 | 23.19 | 23.25 | 17.30 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-QPSK    | 23.09 | 23.09 | 23.27 | 17.32 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-16QAM   | 22.54 | 22.63 | 22.30 | 16.68 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-64QAM   | 21.04 | 21.09 | 20.79 | 15.14 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-256QAM  | 18.84 | 18.82 | 18.77 | 12.89 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | CP-QPSK     | 21.68 | 21.69 | 21.80 | 15.85 | 38.45 | Pass |

## 2. Peak-to-Average Ratio

### 2.1. Test Results

| SCS   | Bandwidth | Channel | RB         | Result (dB) |          | Limit (dB) | Verdict |
|-------|-----------|---------|------------|-------------|----------|------------|---------|
|       |           |         |            | DFT-Pi2BPSK | DFT-QPSK |            |         |
| 15KHz | 20MHz     | LCH     | Outer_Full | 7.65        | 7.40     | 13.00      | Pass    |
| 15KHz | 20MHz     | MCH     | Outer_Full | 7.59        | 7.21     | 13.00      | Pass    |
| 15KHz | 20MHz     | HCH     | Outer_Full | 7.25        | 7.35     | 13.00      | Pass    |

### 2.2. Test Plots for SCS=15KHz

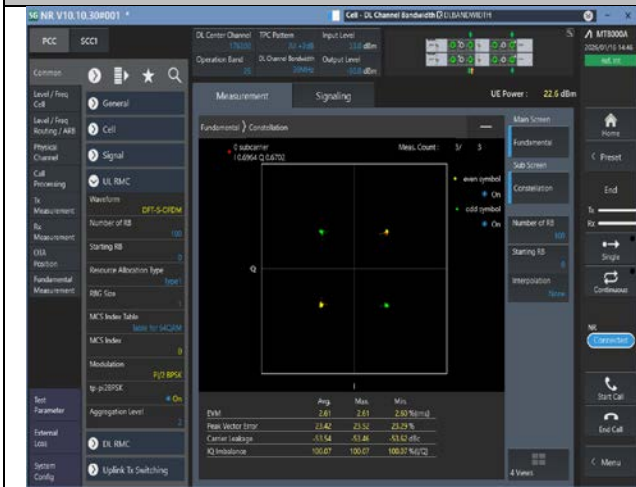


### 3. Modulation Characteristics

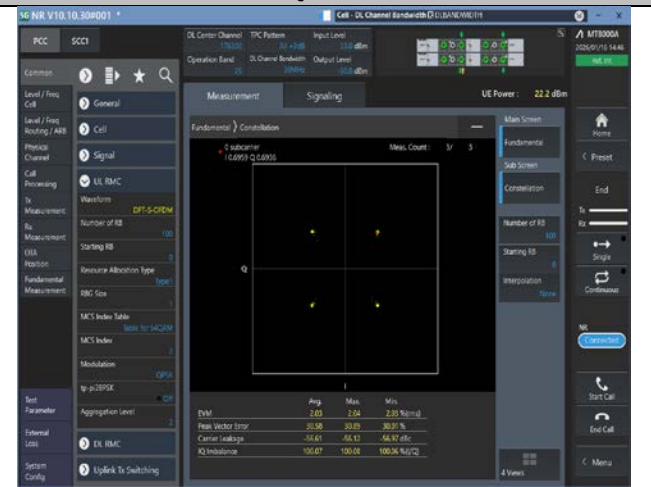
#### 3.1. Test Plots for SCS=15KHz

n26A / 15KHz / 20MHz

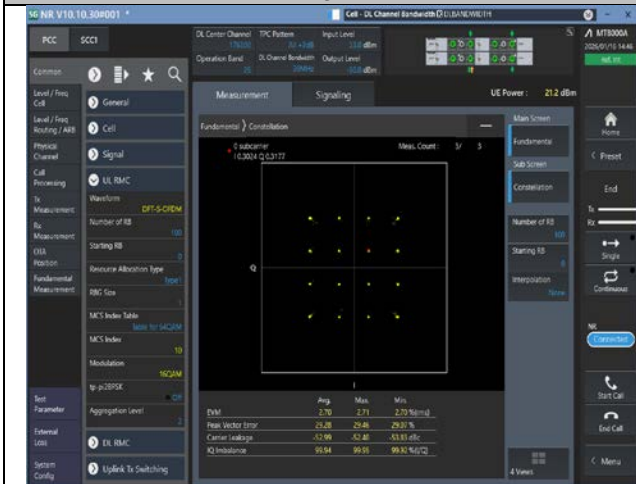
MCH / DFT-Pi2BPSK / Outer\_Full



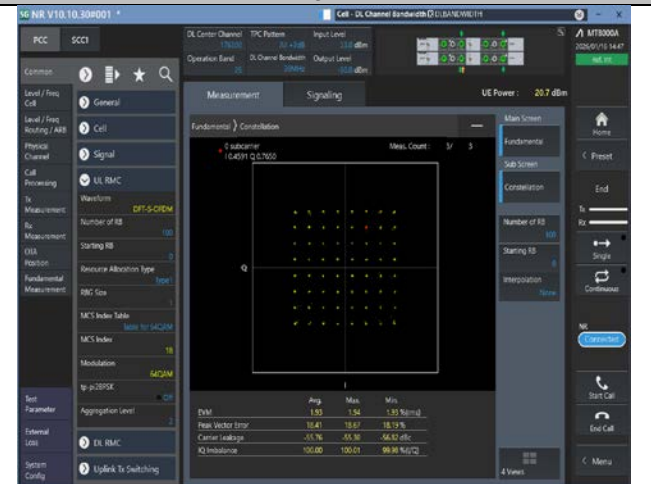
MCH / DFT-QPSK / Outer\_Full



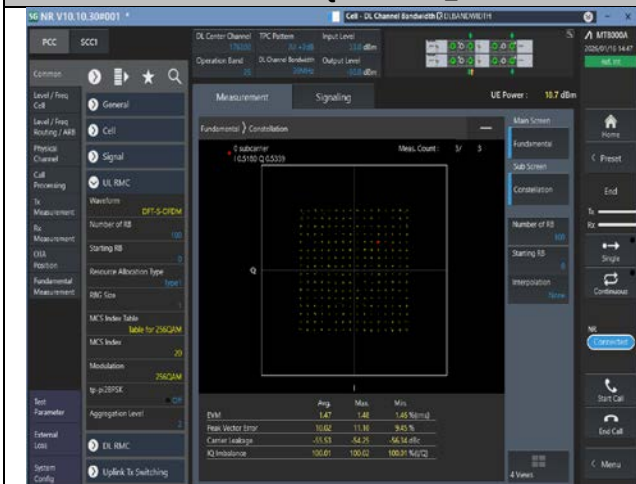
MCH / DFT-16QAM / Outer\_Full



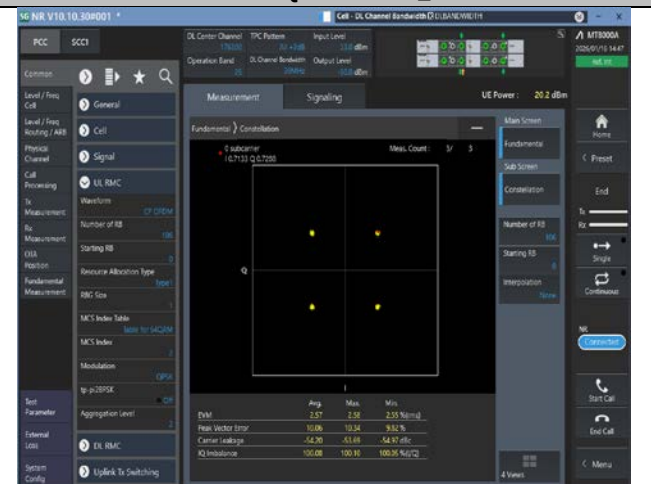
MCH / DFT-64QAM / Outer\_Full

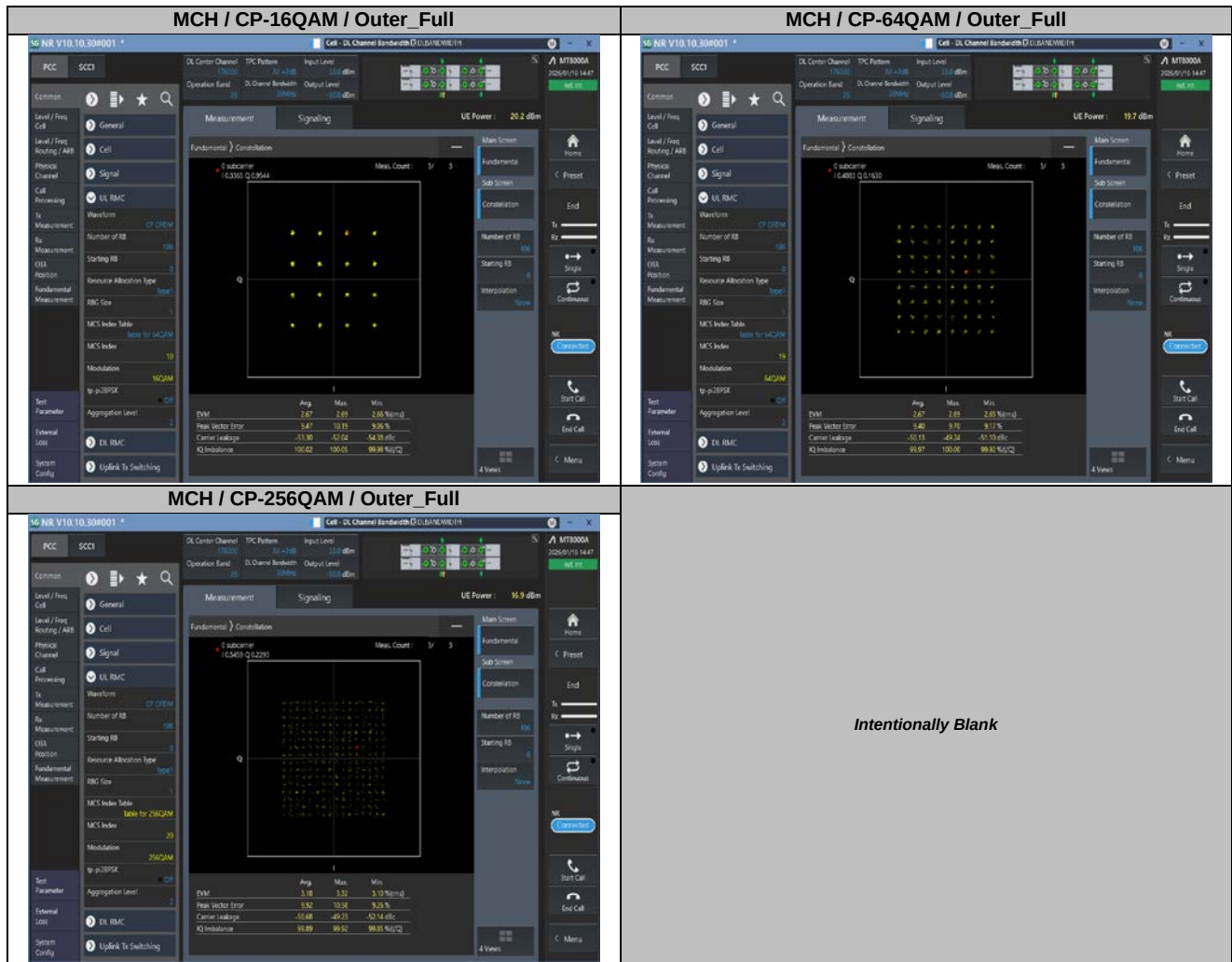


MCH / DFT-256QAM / Outer\_Full



MCH / CP-QPSK / Outer\_Full





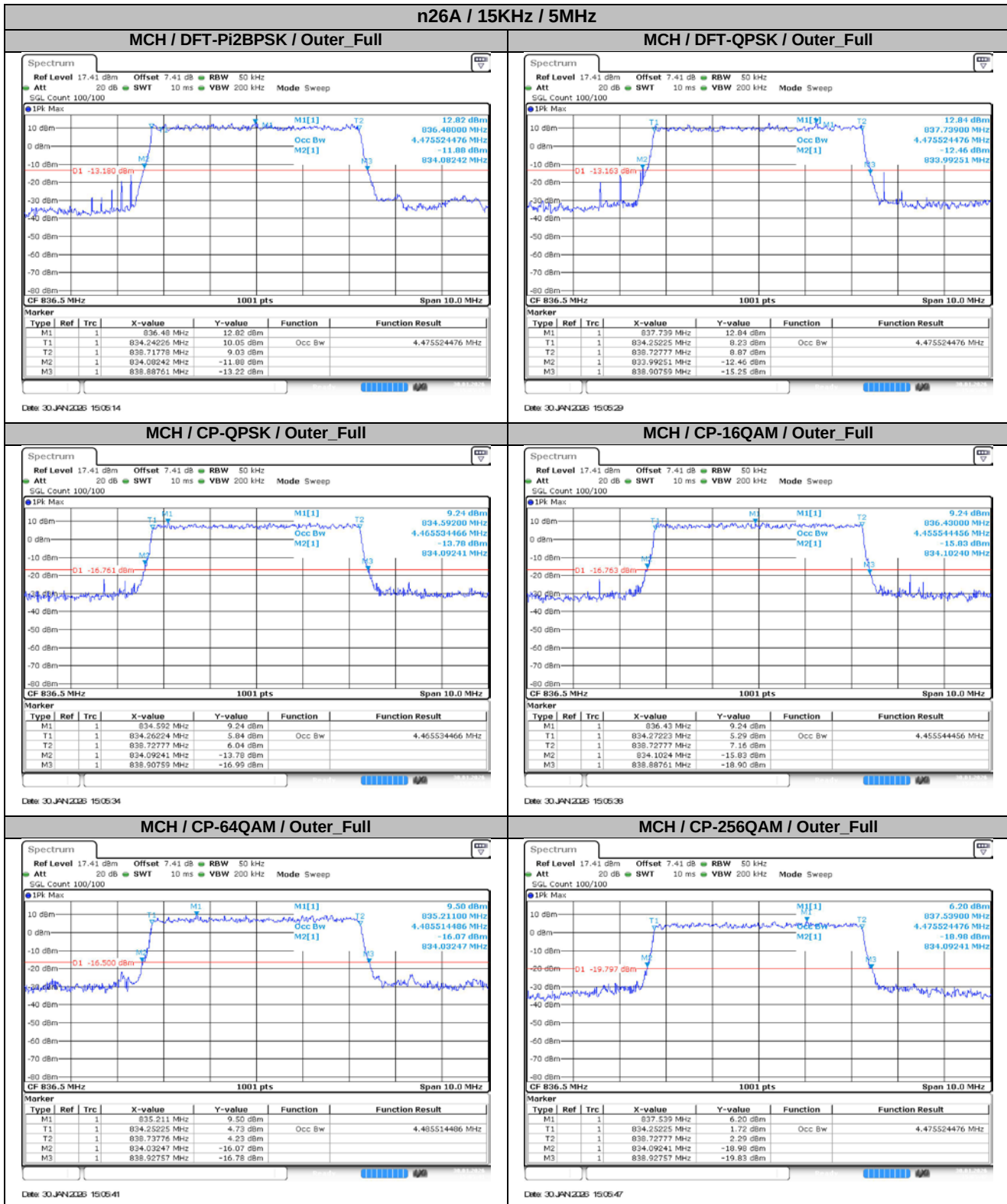
## 4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

### 4.1. Test Results

| SCS   | Bandwidth | Modulation  | RB         | 99% Occupied Bandwidth (MHz) | 26dB Emission Bandwidth (MHz) | Verdict |
|-------|-----------|-------------|------------|------------------------------|-------------------------------|---------|
| 15KHz | 5MHz      | DFT-Pi2BPSK | Outer_Full | 4.48                         | 4.81                          | Pass    |
| 15KHz | 5MHz      | DFT-QPSK    | Outer_Full | 4.48                         | 4.92                          | Pass    |
| 15KHz | 5MHz      | CP-QPSK     | Outer_Full | 4.47                         | 4.82                          | Pass    |
| 15KHz | 5MHz      | CP-16QAM    | Outer_Full | 4.46                         | 4.79                          | Pass    |
| 15KHz | 5MHz      | CP-64QAM    | Outer_Full | 4.49                         | 4.90                          | Pass    |
| 15KHz | 5MHz      | CP-256QAM   | Outer_Full | 4.48                         | 4.84                          | Pass    |
| 15KHz | 10MHz     | DFT-Pi2BPSK | Outer_Full | 8.93                         | 9.45                          | Pass    |
| 15KHz | 10MHz     | DFT-QPSK    | Outer_Full | 8.91                         | 9.35                          | Pass    |
| 15KHz | 10MHz     | CP-QPSK     | Outer_Full | 9.25                         | 9.81                          | Pass    |
| 15KHz | 10MHz     | CP-16QAM    | Outer_Full | 9.29                         | 9.75                          | Pass    |
| 15KHz | 10MHz     | CP-64QAM    | Outer_Full | 9.27                         | 9.69                          | Pass    |
| 15KHz | 10MHz     | CP-256QAM   | Outer_Full | 9.27                         | 9.85                          | Pass    |
| 15KHz | 15MHz     | DFT-Pi2BPSK | Outer_Full | 13.40                        | 14.09                         | Pass    |
| 15KHz | 15MHz     | DFT-QPSK    | Outer_Full | 13.40                        | 14.09                         | Pass    |
| 15KHz | 15MHz     | CP-QPSK     | Outer_Full | 14.06                        | 14.78                         | Pass    |
| 15KHz | 15MHz     | CP-16QAM    | Outer_Full | 14.09                        | 14.78                         | Pass    |
| 15KHz | 15MHz     | CP-64QAM    | Outer_Full | 14.12                        | 14.93                         | Pass    |
| 15KHz | 15MHz     | CP-256QAM   | Outer_Full | 14.09                        | 14.75                         | Pass    |
| 15KHz | 20MHz     | DFT-Pi2BPSK | Outer_Full | 17.86                        | 18.54                         | Pass    |
| 15KHz | 20MHz     | DFT-QPSK    | Outer_Full | 17.82                        | 18.62                         | Pass    |
| 15KHz | 20MHz     | CP-QPSK     | Outer_Full | 18.90                        | 19.70                         | Pass    |
| 15KHz | 20MHz     | CP-16QAM    | Outer_Full | 18.90                        | 19.74                         | Pass    |

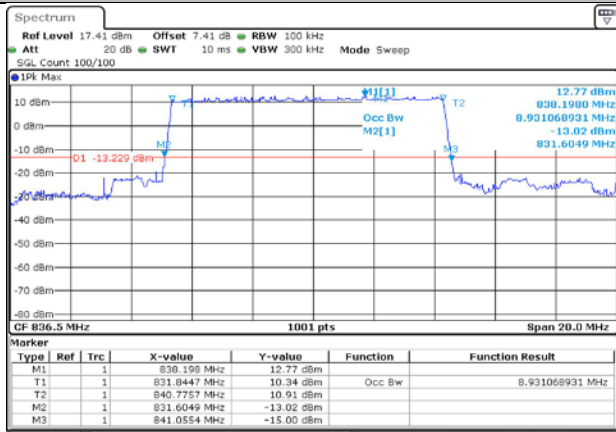
|       |       |           |            |       |       |      |
|-------|-------|-----------|------------|-------|-------|------|
| 15KHz | 20MHz | CP-64QAM  | Outer_Full | 18.90 | 19.70 | Pass |
| 15KHz | 20MHz | CP-256QAM | Outer_Full | 18.86 | 19.74 | Pass |

## 4.2. Test Plots for SCS=15KHz



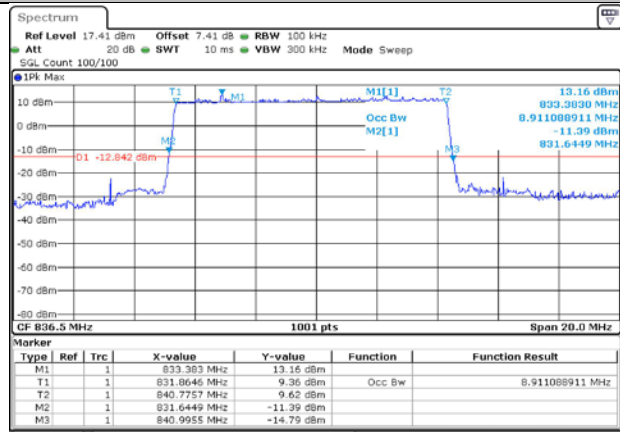
## n26A / 15KHz / 10MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



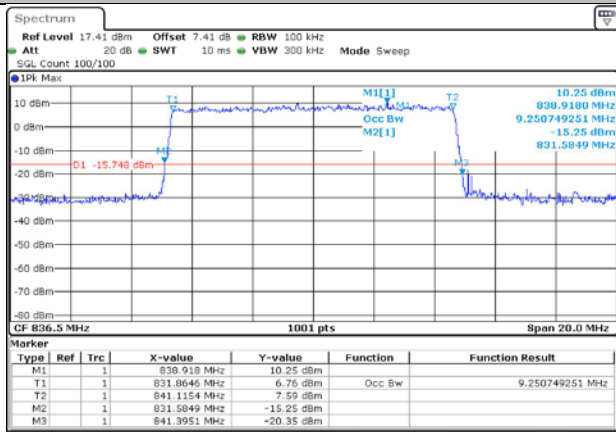
Date: 30.JAN.2016 15:08:25

## MCH / DFT-QPSK / Outer\_Full



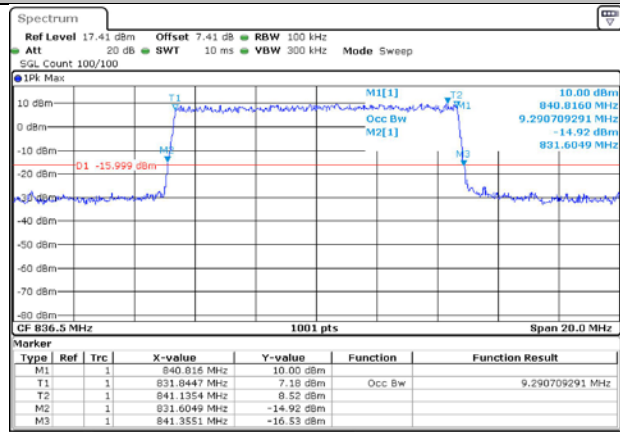
Date: 30.JAN.2016 15:07:05

## MCH / CP-QPSK / Outer\_Full



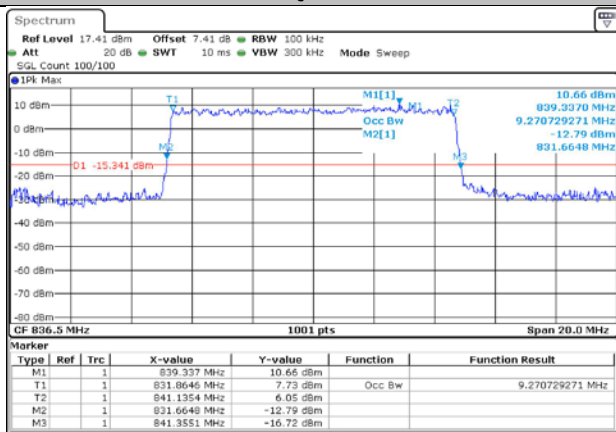
Date: 30.JAN.2016 15:07:11

## MCH / CP-16QAM / Outer\_Full



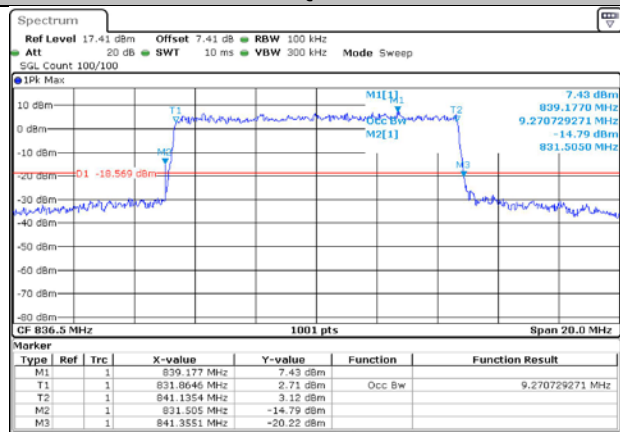
Date: 30.JAN.2016 15:07:15

## MCH / CP-64QAM / Outer\_Full



Date: 30.JAN.2016 15:07:19

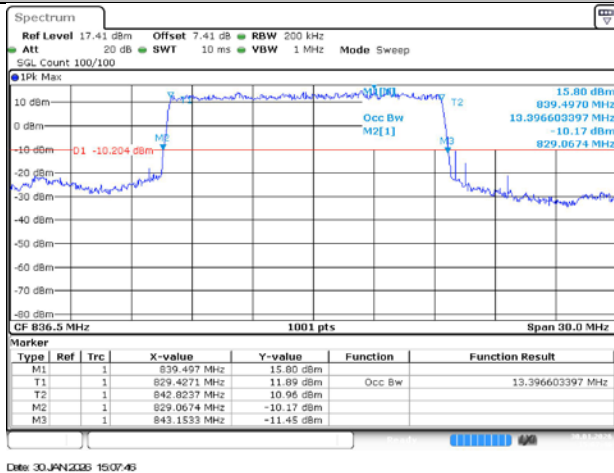
## MCH / CP-256QAM / Outer\_Full



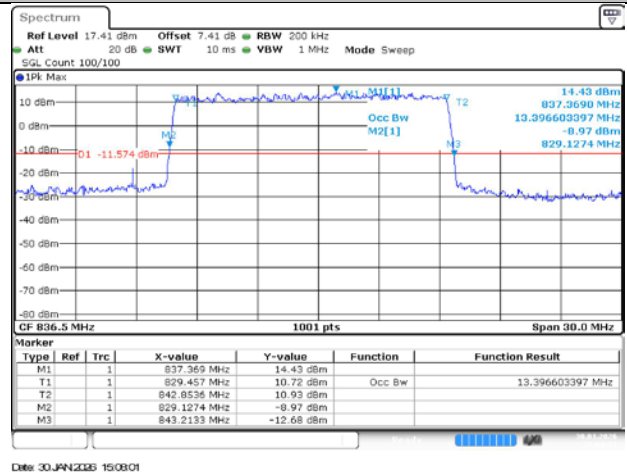
Date: 30.JAN.2016 15:07:25

## n26A / 15KHz / 15MHz

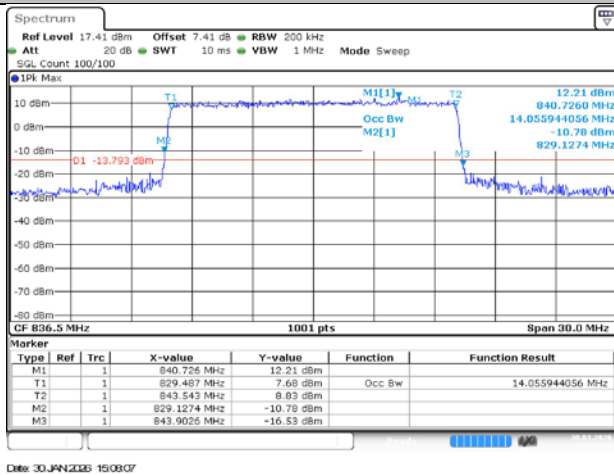
## MCH / DFT-Pi2BPSK / Outer\_Full



## MCH / DFT-QPSK / Outer\_Full



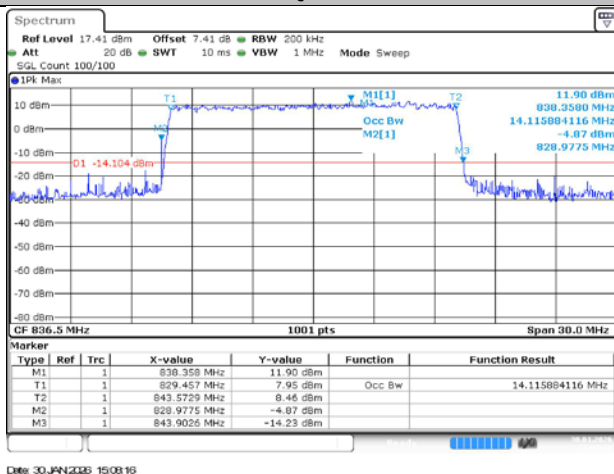
## MCH / CP-QPSK / Outer\_Full



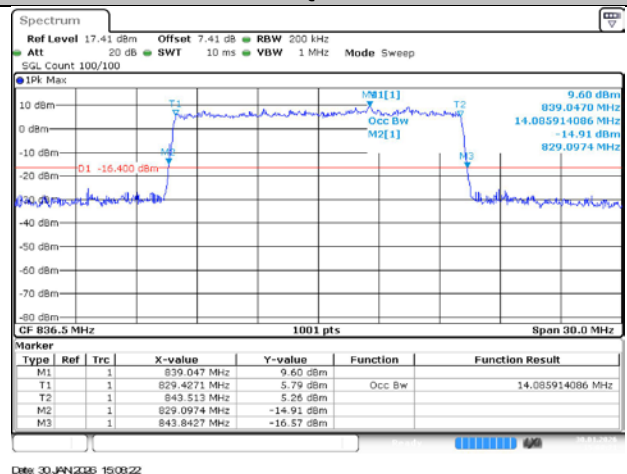
## MCH / CP-16QAM / Outer\_Full



## MCH / CP-64QAM / Outer\_Full

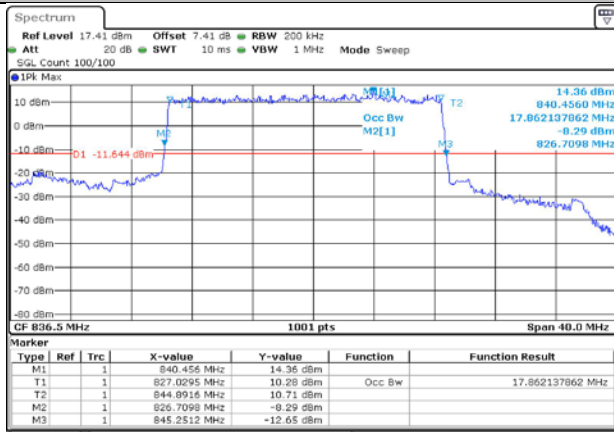


## MCH / CP-256QAM / Outer\_Full



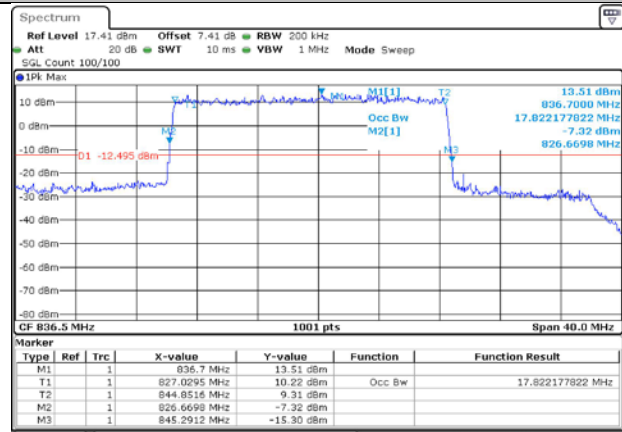
## n26A / 15KHz / 20MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



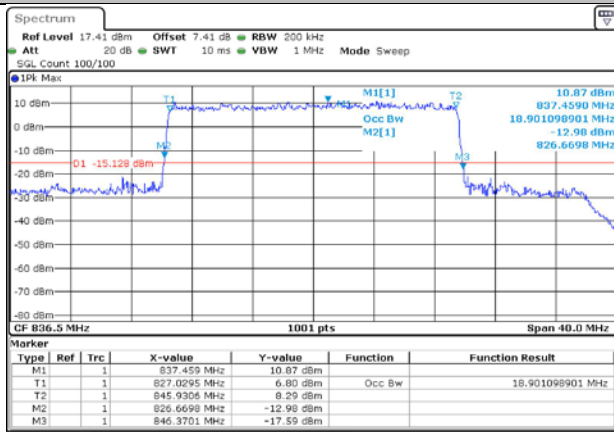
Date: 30.JAN.2025 15:09:11

## MCH / DFT-QPSK / Outer\_Full



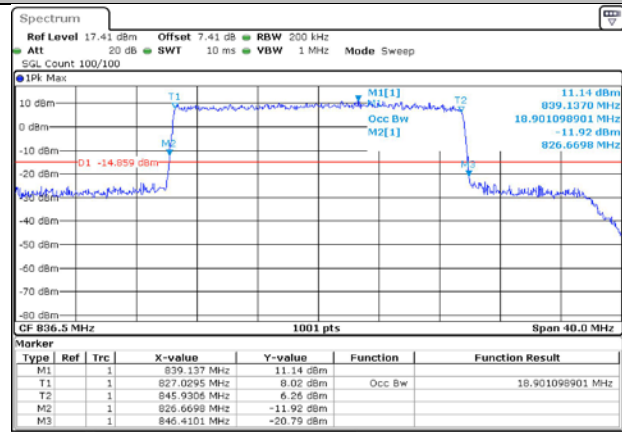
Date: 30.JAN.2025 15:09:46

## MCH / CP-QPSK / Outer\_Full



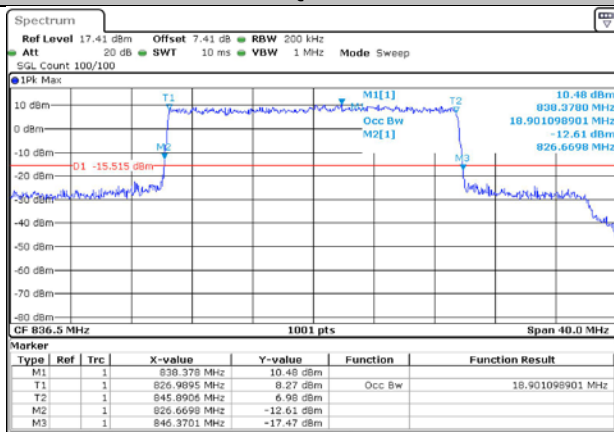
Date: 30.JAN.2025 15:09:52

## MCH / CP-16QAM / Outer\_Full



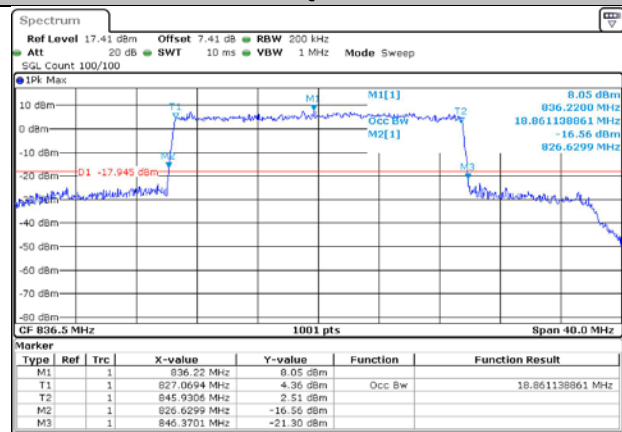
Date: 30.JAN.2025 15:09:56

## MCH / CP-64QAM / Outer\_Full



Date: 30.JAN.2025 15:10:01

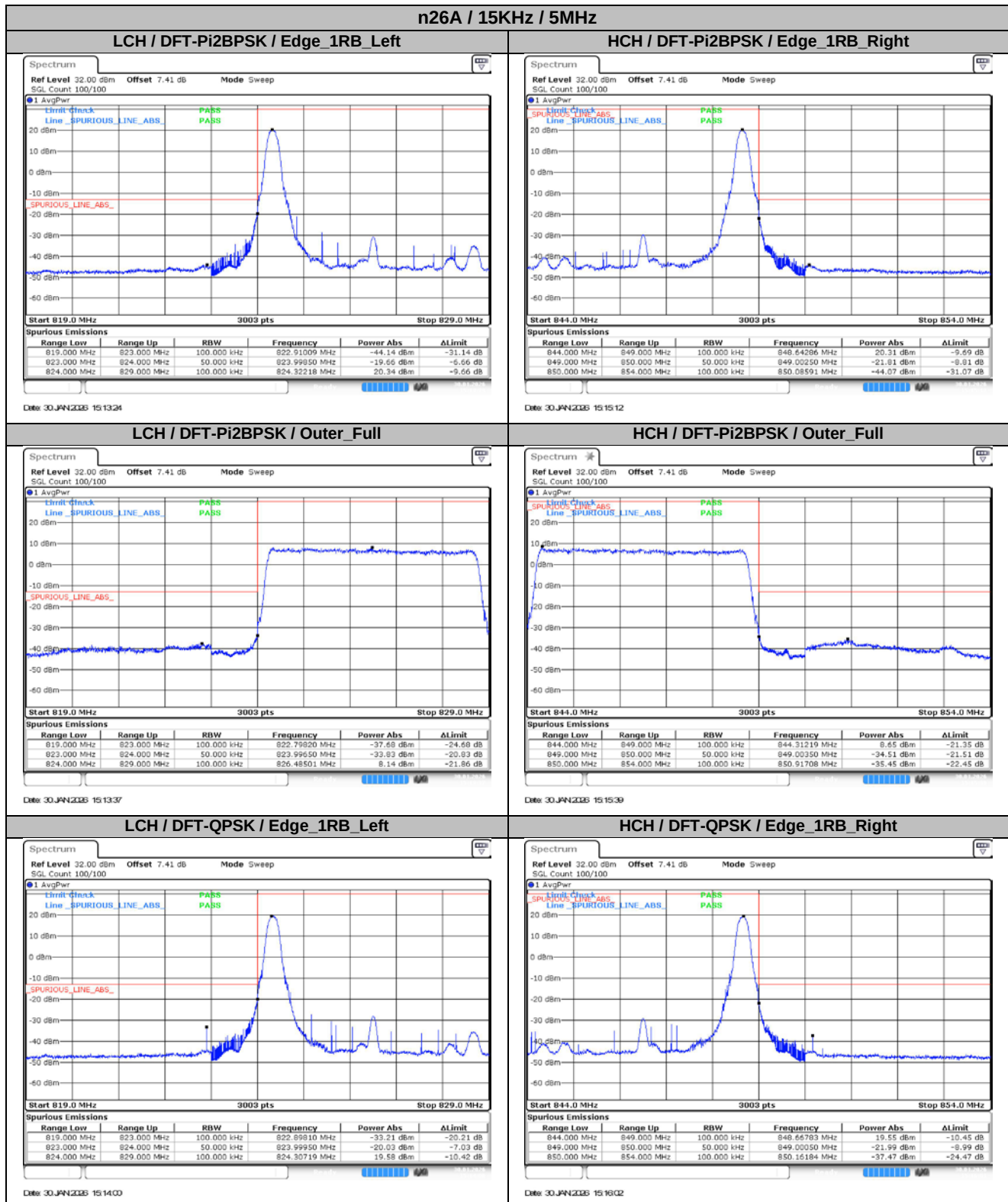
## MCH / CP-256QAM / Outer\_Full

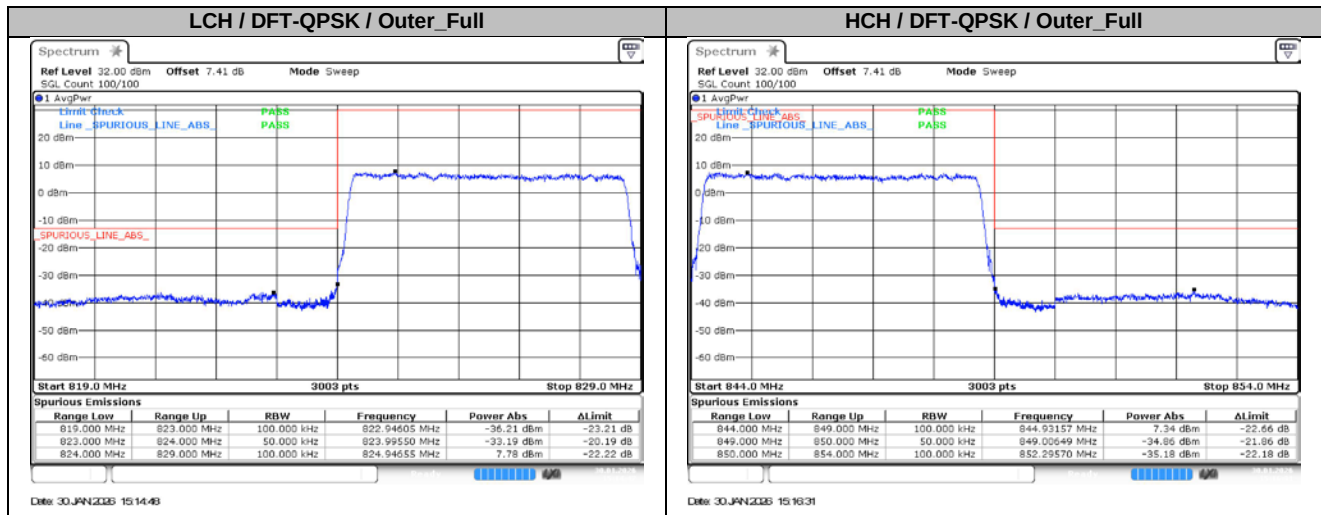


Date: 30.JAN.2025 15:10:08

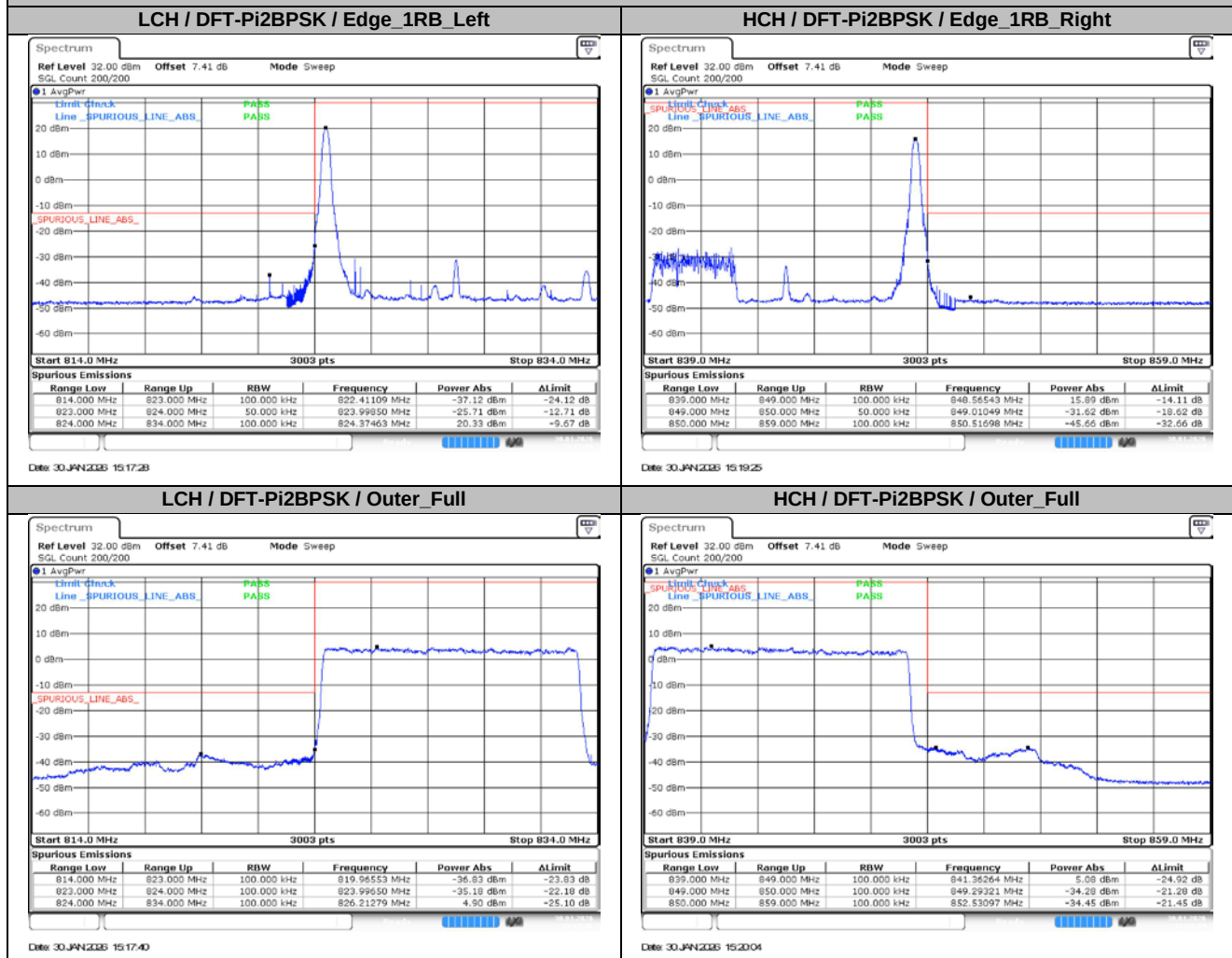
## 5. Conducted Band Edges

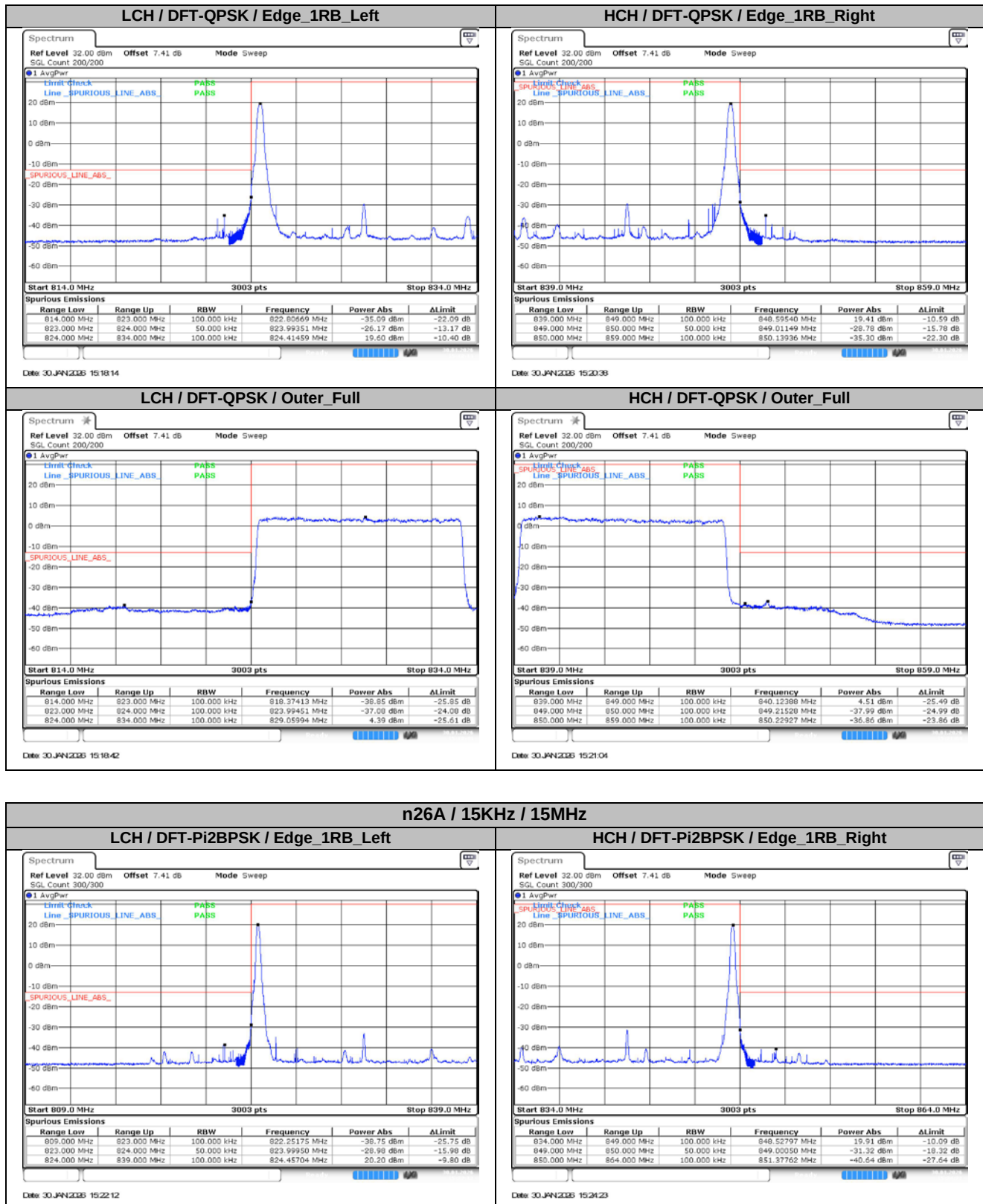
## 5.1. Test Plots for SCS=15KHz

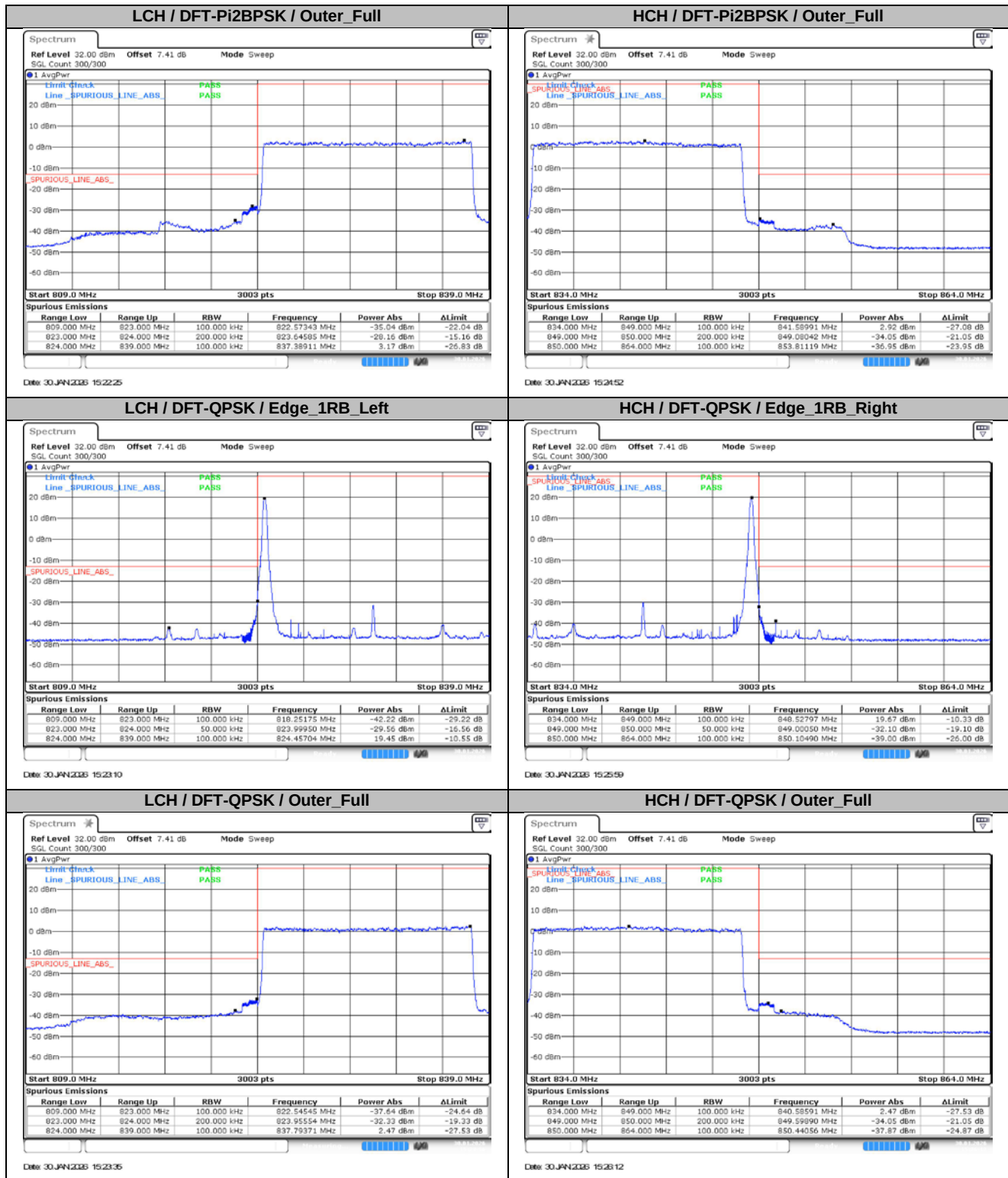




## n26A / 15KHz / 10MHz

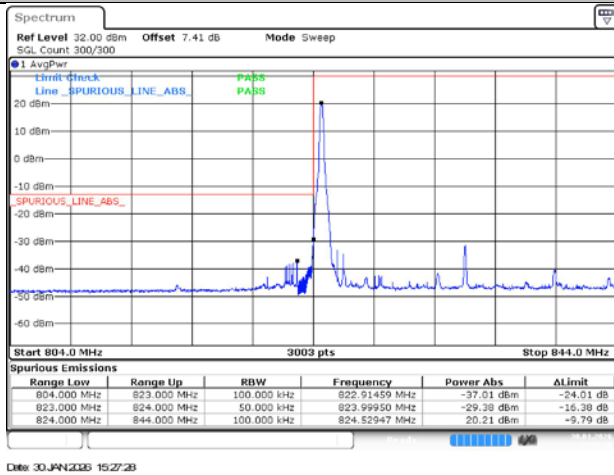




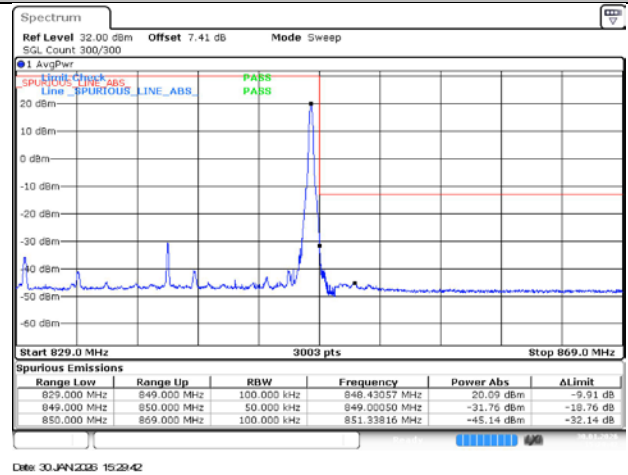


## n26A / 15KHz / 20MHz

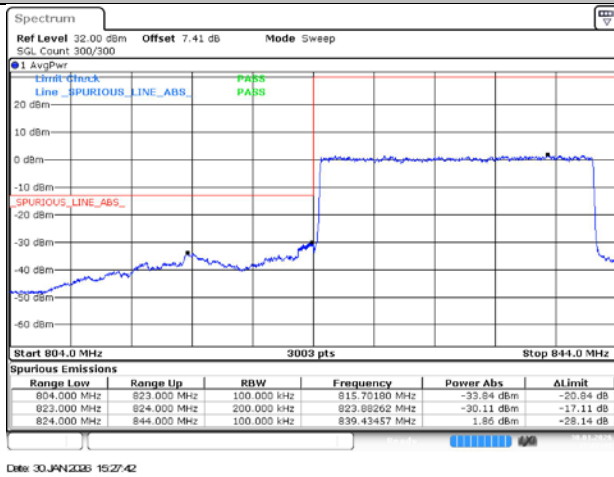
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



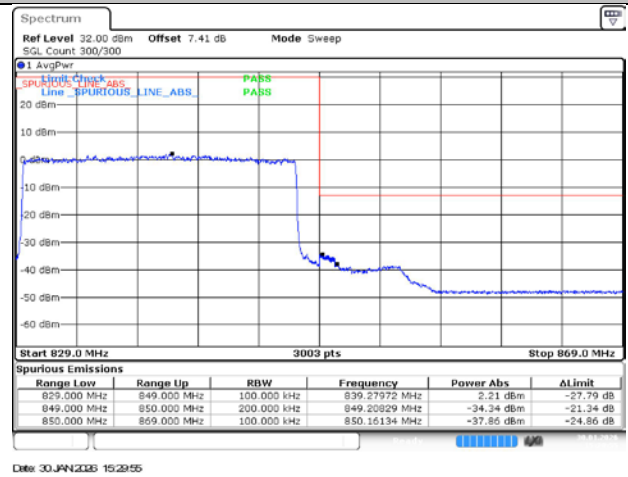
## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



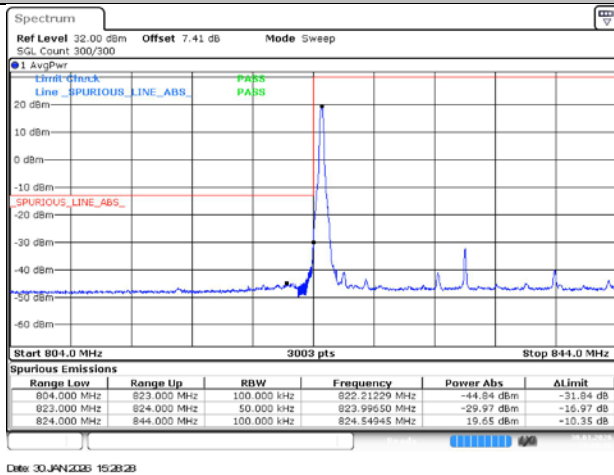
## LCH / DFT-Pi2BPSK / Outer\_Full



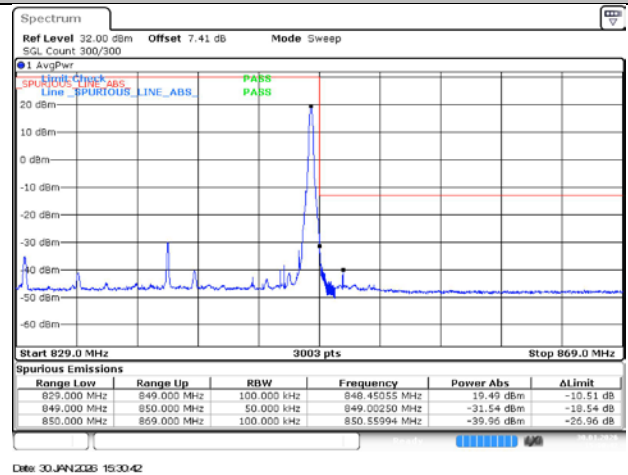
## HCH / DFT-Pi2BPSK / Outer\_Full

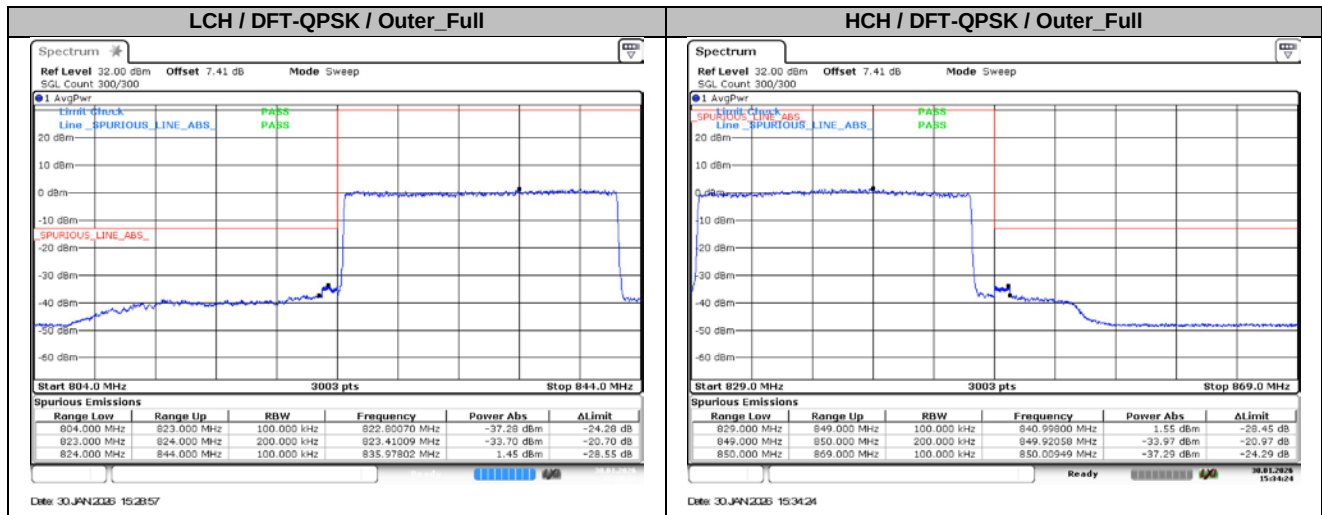


## LCH / DFT-QPSK / Edge\_1RB\_Left



## HCH / DFT-QPSK / Edge\_1RB\_Right





## 6. Conducted Spurious Emission

### 6.1. Test Plots for SCS=15KHz

