

# **Appendix for n5A (824-849)**

## Catalogue

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## 1. Effective Radiated Power

### 1.1. Test Results @ Ant0 (Antenna Gain=-4.50dBi)

| 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 | 23.04                  | 22.96           | 23.05      | 16.40         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-QPSK    | 23.06                  | 22.94           | 23.13      | 16.48         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-16QAM   | 22.22                  | 22.16           | 22.16      | 15.57         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-64QAM   | 20.79                  | 20.72           | 20.72      | 14.14         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | DFT-256QAM  | 18.54                  | 18.53           | 18.74      | 12.09         | 38.45       | Pass    |
| 15KHz | 5MHz      | LCH     | CP-QPSK     | 21.50                  | 21.46           | 21.69      | 15.04         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-Pi2BPSK | 23.09                  | 23.16           | 23.16      | 16.51         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-QPSK    | 23.08                  | 23.08           | 23.20      | 16.55         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-16QAM   | 22.22                  | 22.35           | 22.18      | 15.70         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-64QAM   | 20.73                  | 20.87           | 20.79      | 14.22         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | DFT-256QAM  | 18.55                  | 18.63           | 18.79      | 12.14         | 38.45       | Pass    |
| 15KHz | 5MHz      | MCH     | CP-QPSK     | 21.51                  | 21.59           | 21.75      | 15.10         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-Pi2BPSK | 23.16                  | 23.24           | 23.29      | 16.64         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-QPSK    | 23.14                  | 23.23           | 23.35      | 16.70         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-16QAM   | 22.39                  | 22.41           | 22.33      | 15.76         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-64QAM   | 20.95                  | 20.98           | 20.94      | 14.33         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | DFT-256QAM  | 18.69                  | 18.67           | 18.93      | 12.28         | 38.45       | Pass    |
| 15KHz | 5MHz      | HCH     | CP-QPSK     | 21.71                  | 21.70           | 21.90      | 15.25         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-Pi2BPSK | 23.04                  | 23.06           | 23.02      | 16.41         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-QPSK    | 23.05                  | 23.03           | 23.07      | 16.42         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-16QAM   | 22.21                  | 22.33           | 22.18      | 15.68         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-64QAM   | 20.84                  | 20.95           | 20.71      | 14.30         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | DFT-256QAM  | 18.49                  | 18.59           | 18.64      | 11.99         | 38.45       | Pass    |
| 15KHz | 10MHz     | LCH     | CP-QPSK     | 21.51                  | 21.62           | 21.63      | 14.98         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-Pi2BPSK | 23.02                  | 23.16           | 23.13      | 16.51         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-QPSK    | 22.99                  | 23.16           | 23.15      | 16.51         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-16QAM   | 22.23                  | 22.40           | 22.23      | 15.75         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-64QAM   | 20.80                  | 21.03           | 20.81      | 14.38         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | DFT-256QAM  | 18.44                  | 18.70           | 18.69      | 12.05         | 38.45       | Pass    |
| 15KHz | 10MHz     | MCH     | CP-QPSK     | 21.47                  | 21.58           | 21.69      | 15.04         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-Pi2BPSK | 23.14                  | 23.29           | 23.28      | 16.64         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-QPSK    | 23.13                  | 23.26           | 23.26      | 16.61         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-16QAM   | 22.38                  | 22.50           | 22.38      | 15.85         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-64QAM   | 20.94                  | 21.06           | 20.92      | 14.41         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | DFT-256QAM  | 18.64                  | 18.81           | 18.87      | 12.22         | 38.45       | Pass    |
| 15KHz | 10MHz     | HCH     | CP-QPSK     | 21.65                  | 21.72           | 21.84      | 15.19         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-Pi2BPSK | 23.03                  | 23.18           | 23.05      | 16.53         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-QPSK    | 23.01                  | 23.14           | 23.07      | 16.49         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-16QAM   | 22.19                  | 22.40           | 22.22      | 15.75         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-64QAM   | 20.73                  | 21.02           | 20.73      | 14.37         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | DFT-256QAM  | 18.46                  | 18.67           | 18.69      | 12.04         | 38.45       | Pass    |
| 15KHz | 15MHz     | LCH     | CP-QPSK     | 21.48                  | 21.71           | 21.69      | 15.06         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-Pi2BPSK | 22.92                  | 23.25           | 23.13      | 16.60         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-QPSK    | 22.91                  | 23.20           | 23.16      | 16.55         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-16QAM   | 22.15                  | 22.45           | 22.26      | 15.80         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-64QAM   | 20.69                  | 21.01           | 20.78      | 14.36         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | DFT-256QAM  | 18.41                  | 18.68           | 18.72      | 12.07         | 38.45       | Pass    |
| 15KHz | 15MHz     | MCH     | CP-QPSK     | 21.46                  | 21.68           | 21.78      | 15.13         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-Pi2BPSK | 23.10                  | 23.27           | 23.21      | 16.62         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-QPSK    | 23.06                  | 23.24           | 23.20      | 16.59         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-16QAM   | 22.28                  | 22.46           | 22.36      | 15.81         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-64QAM   | 20.83                  | 20.92           | 20.86      | 14.27         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | DFT-256QAM  | 18.57                  | 18.73           | 18.80      | 12.15         | 38.45       | Pass    |
| 15KHz | 15MHz     | HCH     | CP-QPSK     | 21.53                  | 21.92           | 21.84      | 15.27         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-Pi2BPSK | 23.00                  | 23.25           | 23.14      | 16.60         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-QPSK    | 22.99                  | 23.20           | 23.17      | 16.55         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-16QAM   | 22.17                  | 22.50           | 22.19      | 15.85         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-64QAM   | 20.75                  | 21.08           | 20.69      | 14.43         | 38.45       | Pass    |
| 15KHz | 20MHz     | LCH     | DFT-256QAM  | 18.49                  | 18.78           | 18.69      | 12.13         | 38.45       | Pass    |

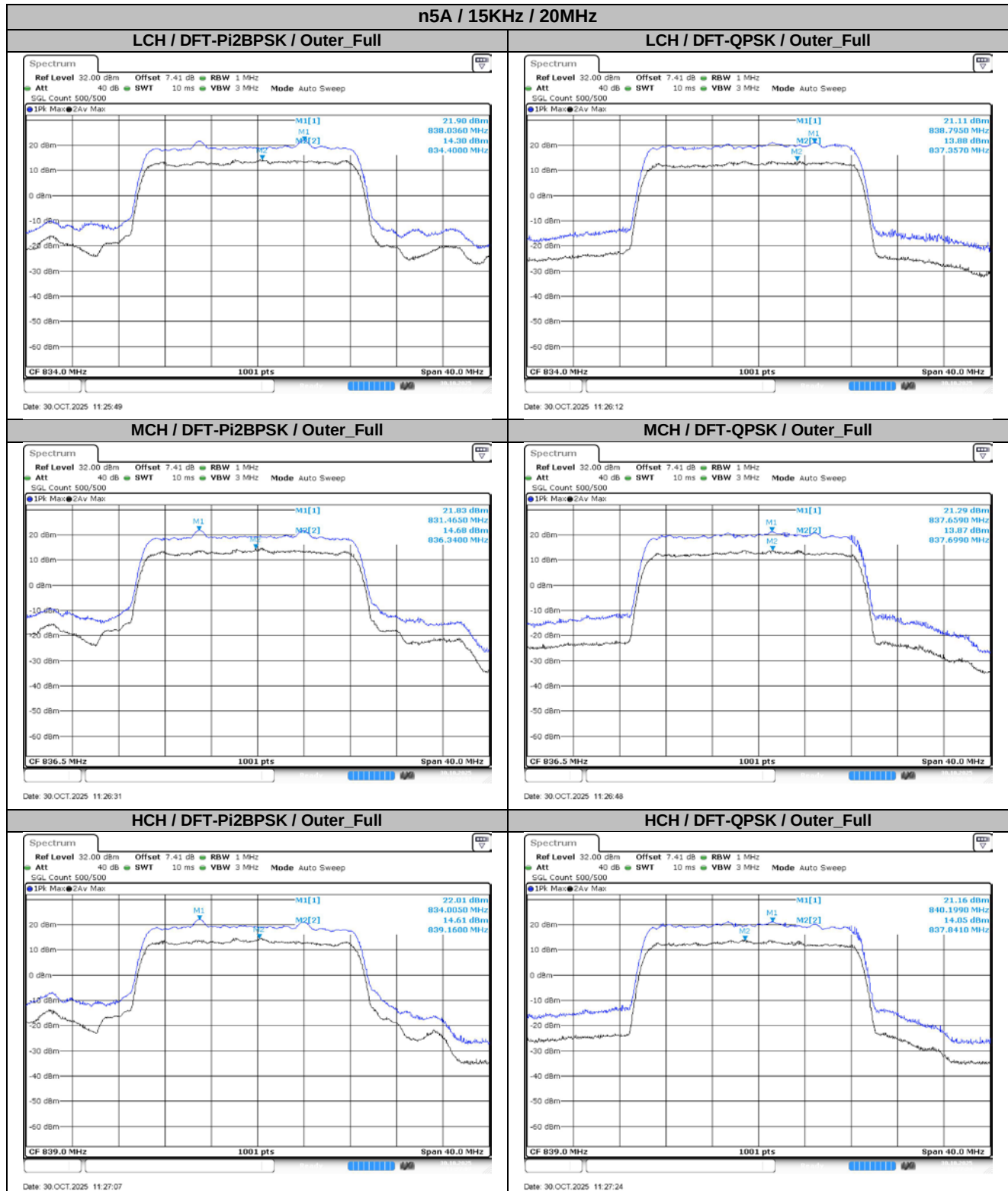
|       |       |     |             |       |       |       |       |       |      |
|-------|-------|-----|-------------|-------|-------|-------|-------|-------|------|
| 15KHz | 20MHz | LCH | CP-QPSK     | 21.46 | 21.74 | 21.76 | 15.11 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-Pi2BPSK | 22.97 | 23.21 | 23.16 | 16.56 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-QPSK    | 22.90 | 23.21 | 23.16 | 16.56 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-16QAM   | 22.16 | 22.42 | 22.26 | 15.77 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-64QAM   | 20.74 | 21.01 | 20.74 | 14.36 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | DFT-256QAM  | 18.51 | 18.75 | 18.73 | 12.10 | 38.45 | Pass |
| 15KHz | 20MHz | MCH | CP-QPSK     | 21.45 | 21.65 | 21.78 | 15.13 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-Pi2BPSK | 22.92 | 23.23 | 23.20 | 16.58 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-QPSK    | 22.89 | 23.19 | 23.15 | 16.54 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-16QAM   | 22.12 | 22.45 | 22.26 | 15.80 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-64QAM   | 20.69 | 21.02 | 20.77 | 14.37 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | DFT-256QAM  | 18.43 | 18.71 | 18.73 | 12.08 | 38.45 | Pass |
| 15KHz | 20MHz | HCH | CP-QPSK     | 21.43 | 21.68 | 21.78 | 15.13 | 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 | 7.59        | 7.23     | 13.00      | Pass    |
| 15KHz | 20MHz     | MCH     | Outer_Full | 7.16        | 7.42     | 13.00      | Pass    |
| 15KHz | 20MHz     | HCH     | Outer_Full | 7.39        | 7.10     | 13.00      | Pass    |

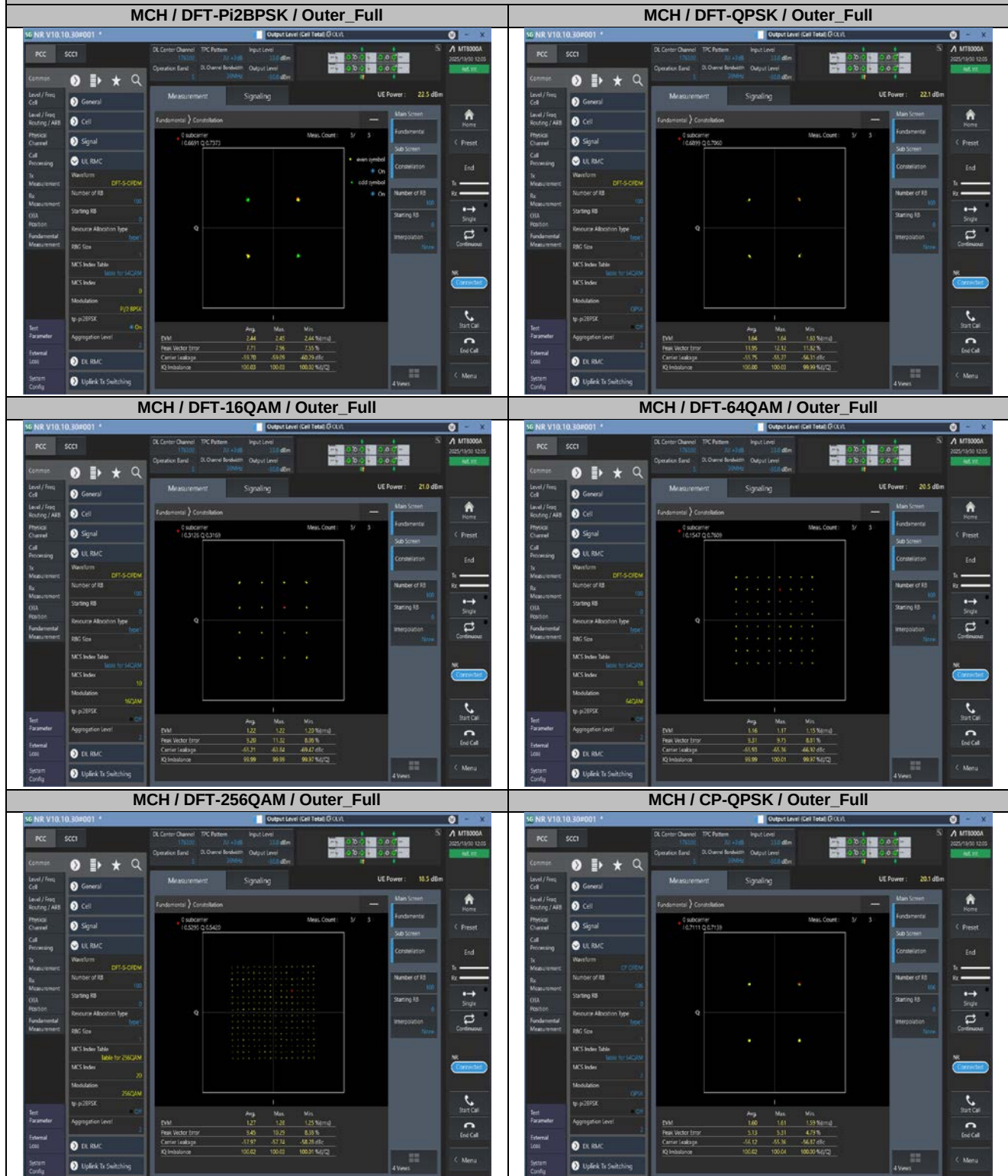
### 2.2. Test Plots for SCS=15KHz

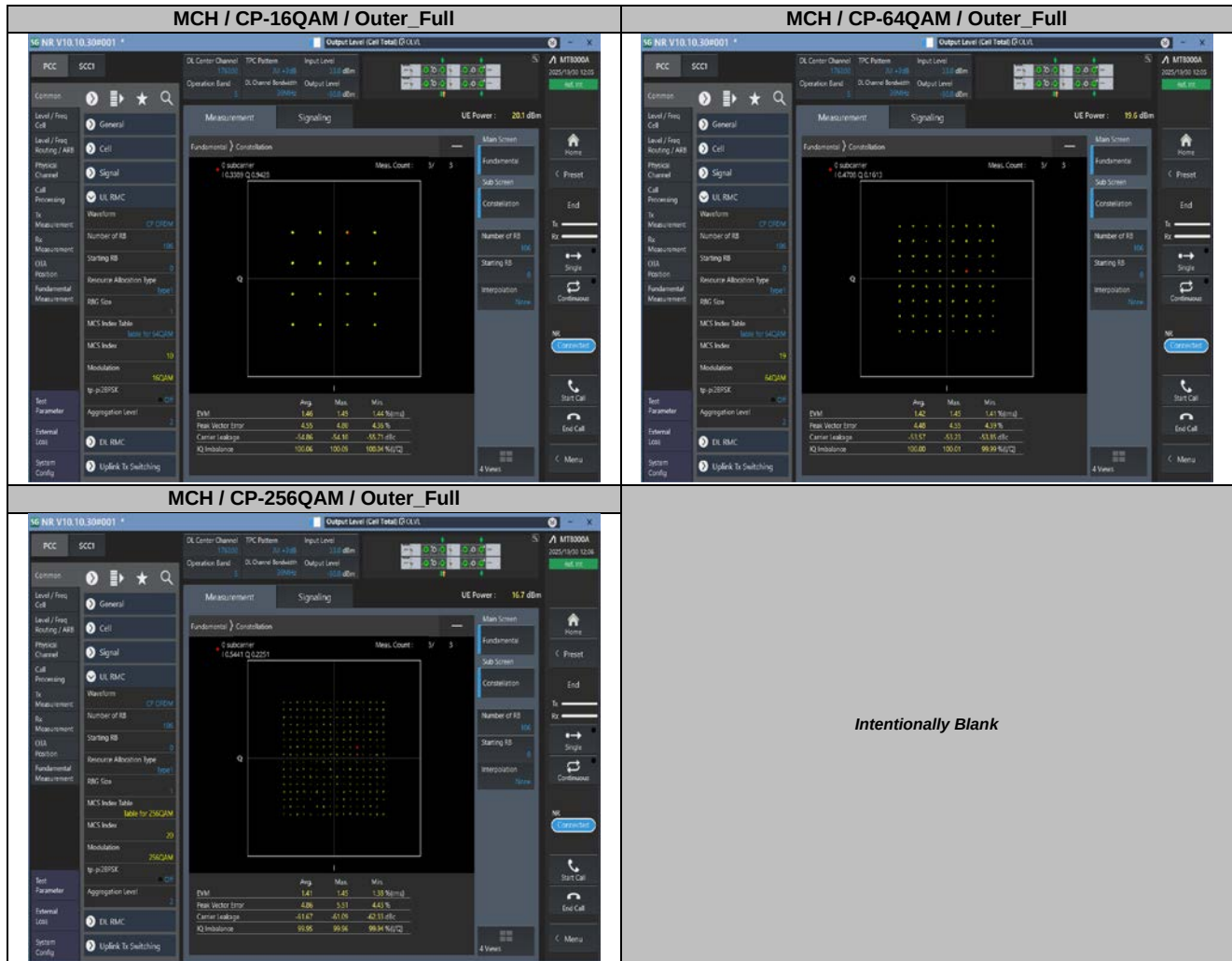


### 3. Modulation Characteristics

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

n5A / 15KHz / 20MHz



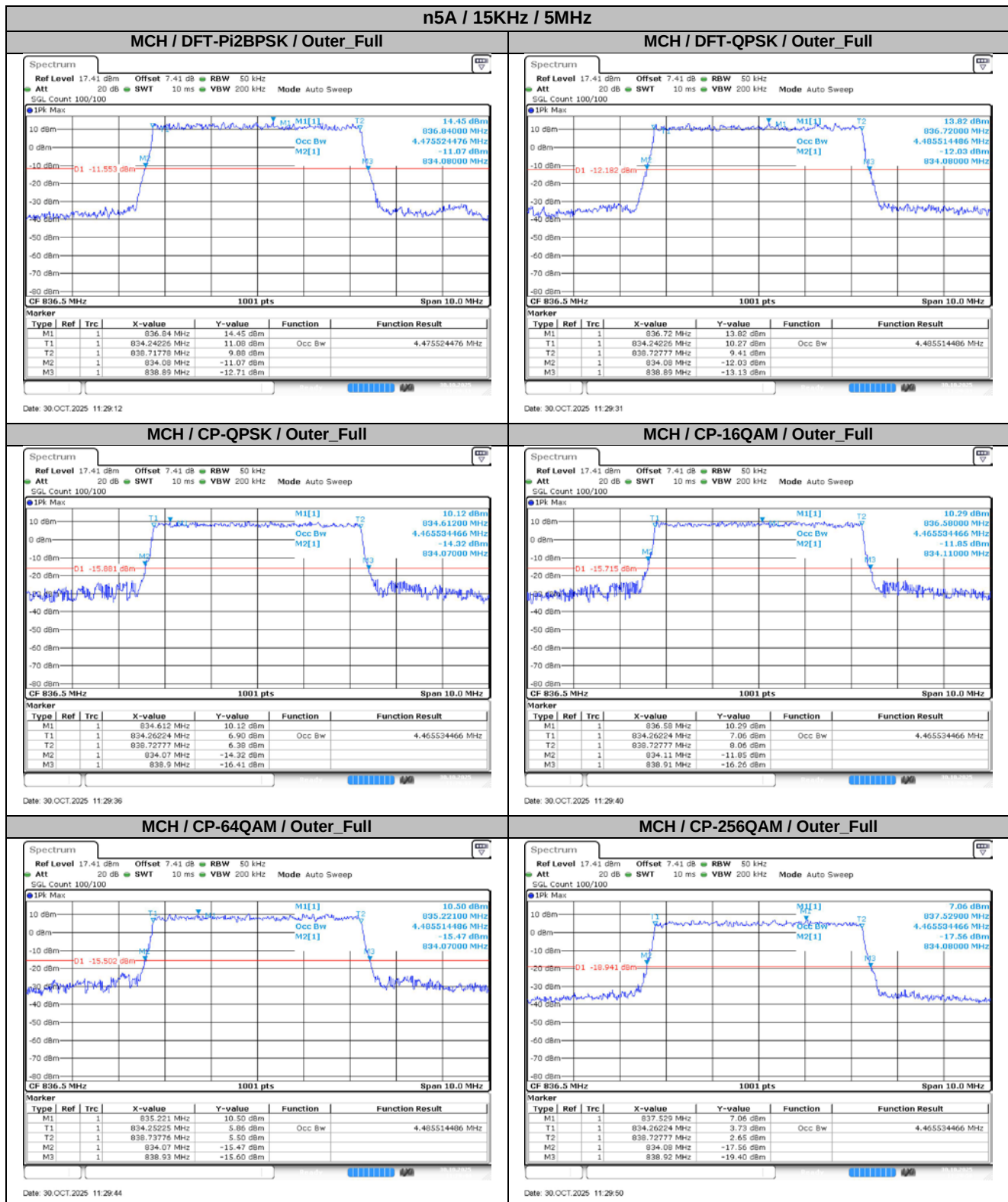


#### 4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

##### 4.1. Test Results

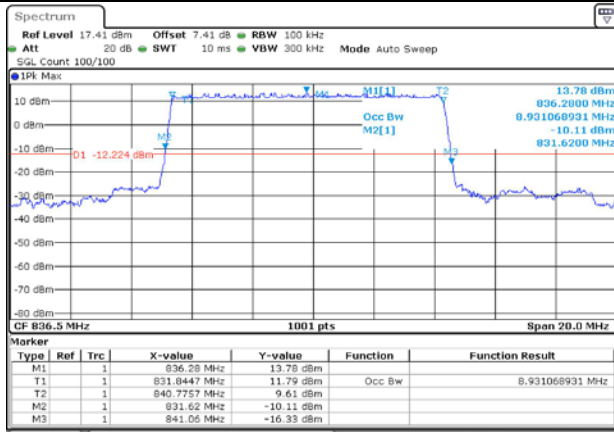
| SCS   | Bandwidth | Modulation  | RB         | 99% Occupied Bandwidth (MHz) | 26dB Emission Bandwidth (MHz) | Verdict |
|-------|-----------|-------------|------------|------------------------------|-------------------------------|---------|
| 15KHz | 5MHz      | DFT-Pi2BPSK | Outer_Full | 4.48                         | 4.81                          | Pass    |
| 15KHz | 5MHz      | DFT-QPSK    | Outer_Full | 4.49                         | 4.81                          | Pass    |
| 15KHz | 5MHz      | CP-QPSK     | Outer_Full | 4.47                         | 4.83                          | Pass    |
| 15KHz | 5MHz      | CP-16QAM    | Outer_Full | 4.47                         | 4.80                          | Pass    |
| 15KHz | 5MHz      | CP-64QAM    | Outer_Full | 4.49                         | 4.86                          | Pass    |
| 15KHz | 5MHz      | CP-256QAM   | Outer_Full | 4.47                         | 4.84                          | Pass    |
| 15KHz | 10MHz     | DFT-Pi2BPSK | Outer_Full | 8.93                         | 9.44                          | Pass    |
| 15KHz | 10MHz     | DFT-QPSK    | Outer_Full | 8.91                         | 9.40                          | Pass    |
| 15KHz | 10MHz     | CP-QPSK     | Outer_Full | 9.25                         | 9.74                          | Pass    |
| 15KHz | 10MHz     | CP-16QAM    | Outer_Full | 9.29                         | 9.72                          | Pass    |
| 15KHz | 10MHz     | CP-64QAM    | Outer_Full | 9.27                         | 9.70                          | Pass    |
| 15KHz | 10MHz     | CP-256QAM   | Outer_Full | 9.25                         | 9.74                          | Pass    |
| 15KHz | 15MHz     | DFT-Pi2BPSK | Outer_Full | 13.40                        | 14.13                         | Pass    |
| 15KHz | 15MHz     | DFT-QPSK    | Outer_Full | 13.37                        | 14.13                         | Pass    |
| 15KHz | 15MHz     | CP-QPSK     | Outer_Full | 14.09                        | 14.76                         | Pass    |
| 15KHz | 15MHz     | CP-16QAM    | Outer_Full | 14.09                        | 14.79                         | Pass    |
| 15KHz | 15MHz     | CP-64QAM    | Outer_Full | 14.09                        | 14.79                         | Pass    |
| 15KHz | 15MHz     | CP-256QAM   | Outer_Full | 14.09                        | 14.79                         | Pass    |
| 15KHz | 20MHz     | DFT-Pi2BPSK | Outer_Full | 17.82                        | 18.68                         | Pass    |
| 15KHz | 20MHz     | DFT-QPSK    | Outer_Full | 17.82                        | 18.64                         | Pass    |
| 15KHz | 20MHz     | CP-QPSK     | Outer_Full | 18.86                        | 19.72                         | Pass    |
| 15KHz | 20MHz     | CP-16QAM    | Outer_Full | 18.90                        | 19.68                         | Pass    |
| 15KHz | 20MHz     | CP-64QAM    | Outer_Full | 18.86                        | 19.68                         | Pass    |
| 15KHz | 20MHz     | CP-256QAM   | Outer_Full | 18.86                        | 19.76                         | Pass    |

## 4.2. Test Plots for SCS=15KHz



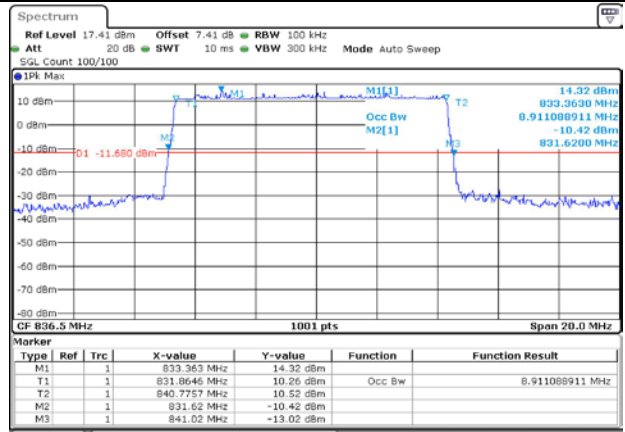
## n5A / 15KHz / 10MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



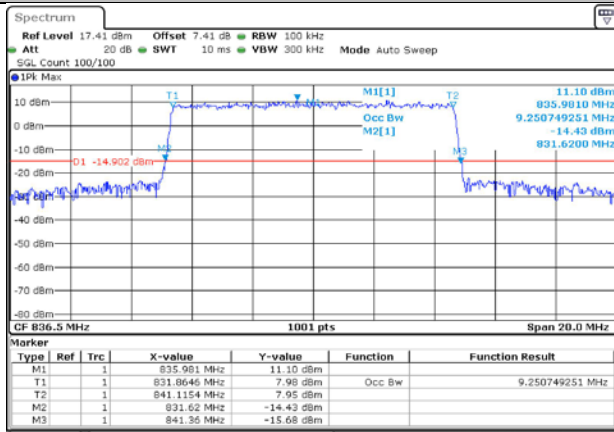
Date: 30.OCT.2025 11:30:13

## MCH / DFT-QPSK / Outer\_Full



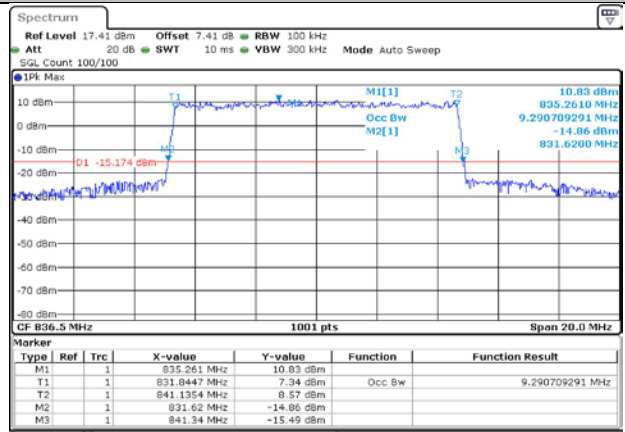
Date: 30.OCT.2025 11:30:32

## MCH / CP-QPSK / Outer\_Full



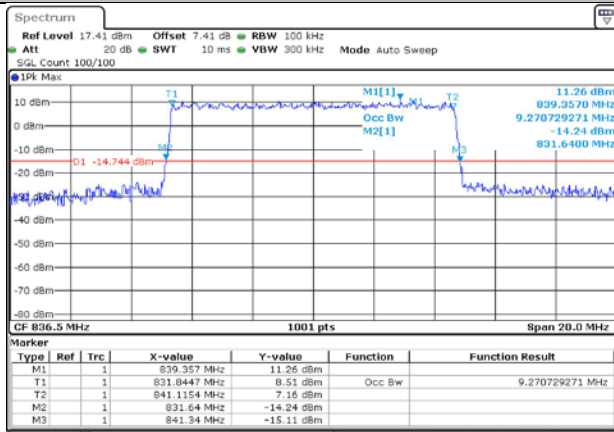
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## MCH / CP-16QAM / Outer\_Full



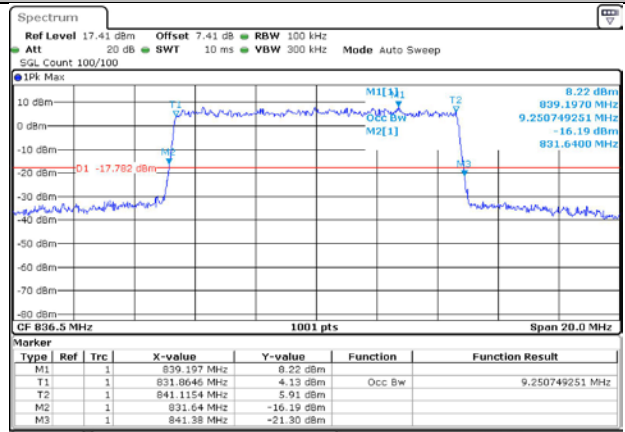
Date: 30.OCT.2025 11:30:42

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



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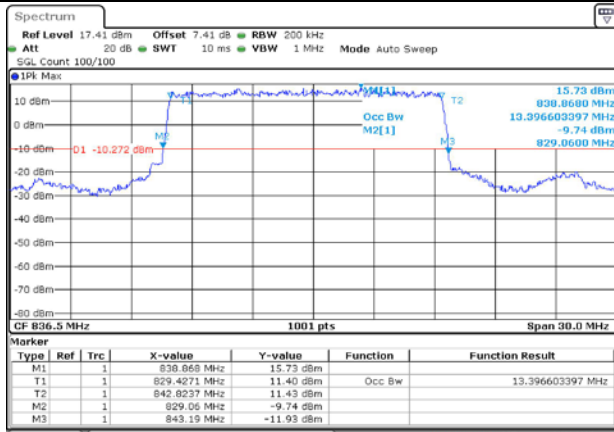
## MCH / CP-256QAM / Outer\_Full



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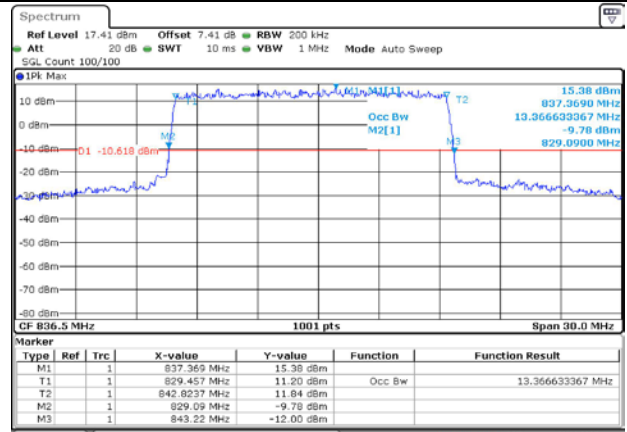
## n5A / 15KHz / 15MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



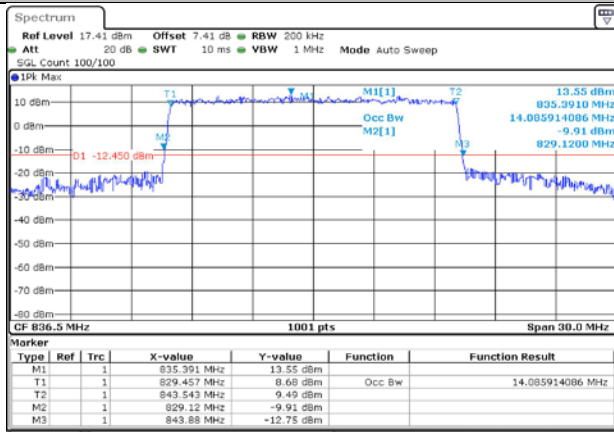
Date: 30.OCT.2025 11:31:10

## MCH / DFT-QPSK / Outer\_Full



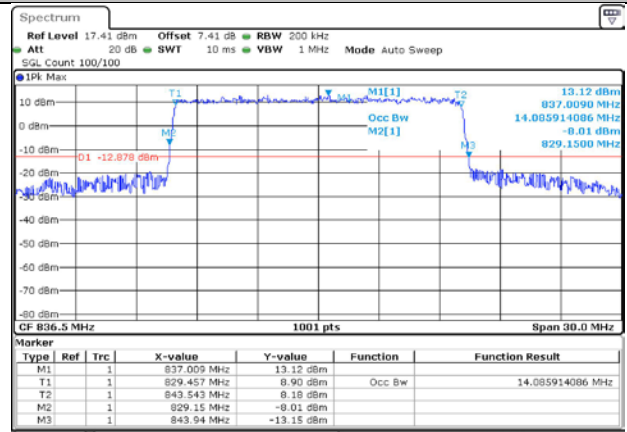
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## MCH / CP-QPSK / Outer\_Full



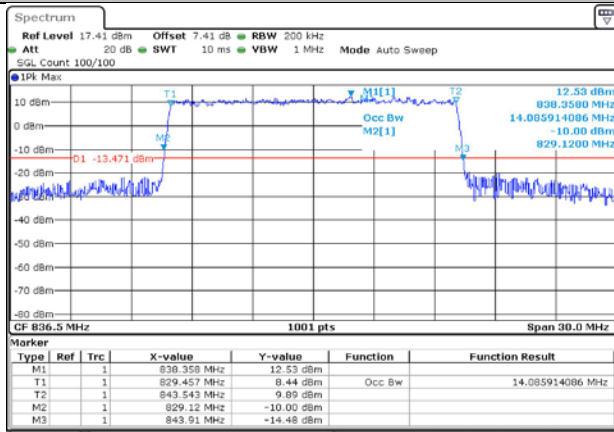
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## MCH / CP-16QAM / Outer\_Full



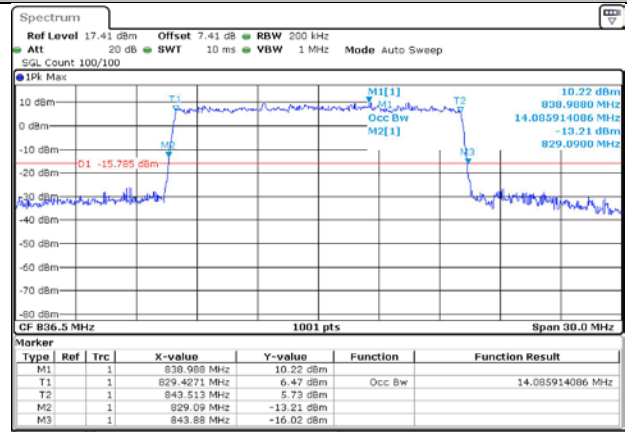
Date: 30.OCT.2025 11:31:35

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



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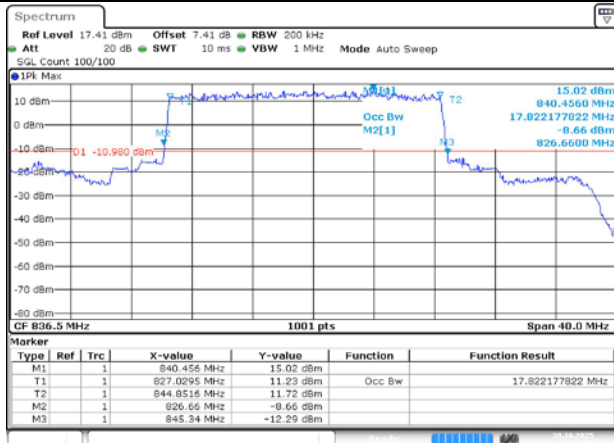
## MCH / CP-256QAM / Outer\_Full



Date: 30.OCT.2025 11:31:46

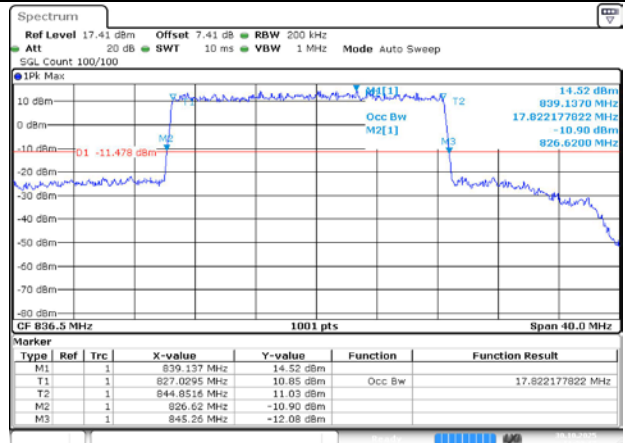
## n5A / 15KHz / 20MHz

## MCH / DFT-Pi2BPSK / Outer\_Full



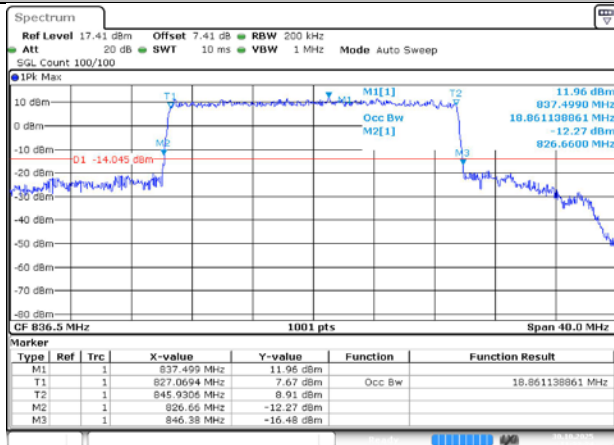
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## MCH / DFT-QPSK / Outer\_Full



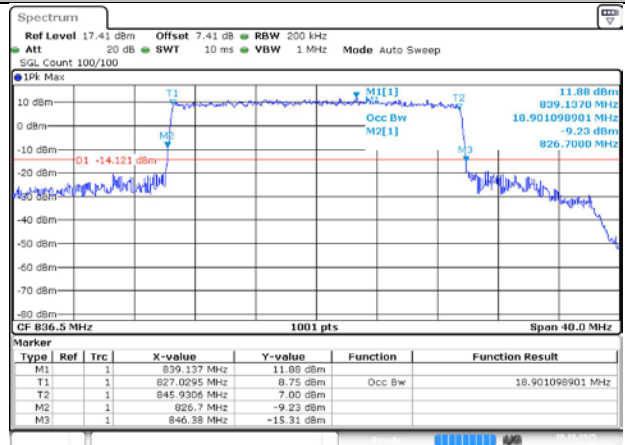
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## MCH / CP-QPSK / Outer\_Full



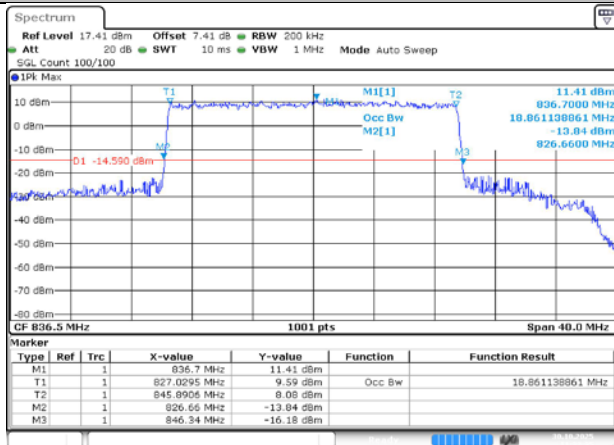
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## MCH / CP-16QAM / Outer\_Full



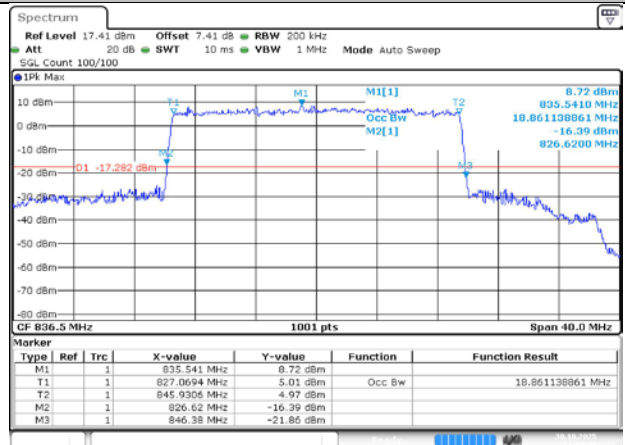
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## MCH / CP-64QAM / Outer\_Full



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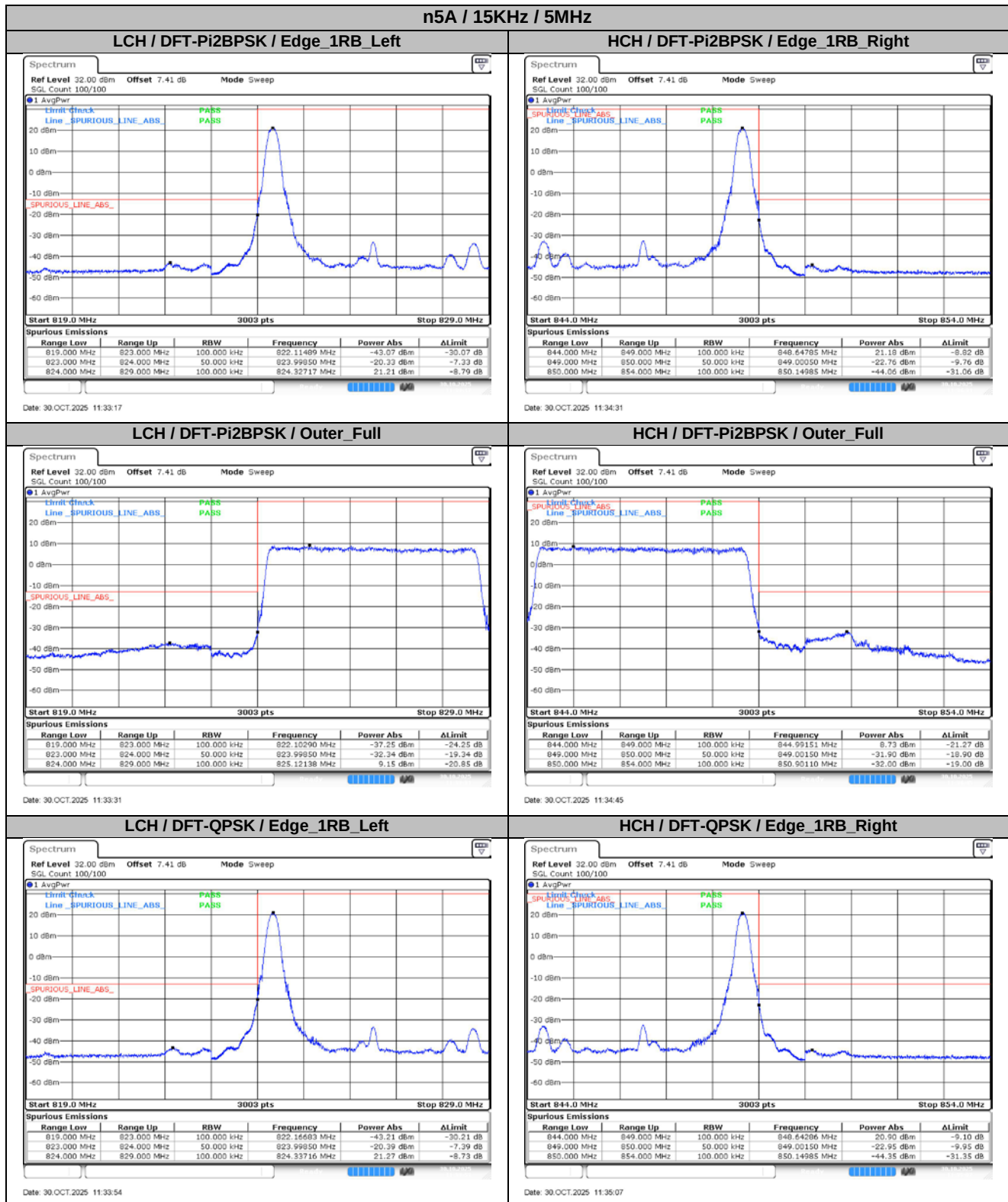
## MCH / CP-256QAM / Outer\_Full

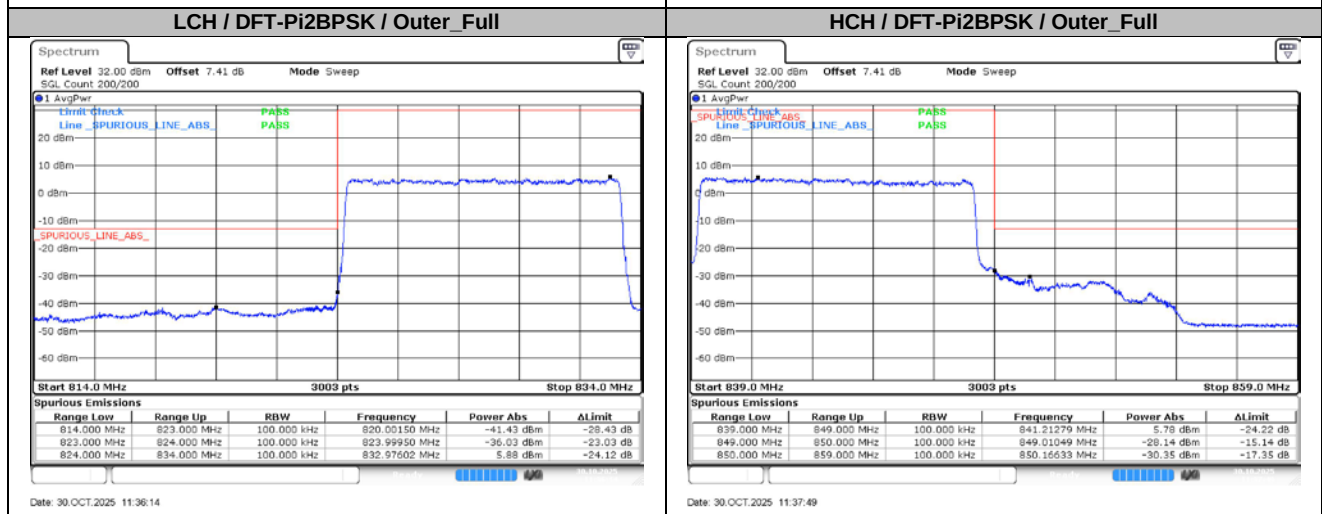
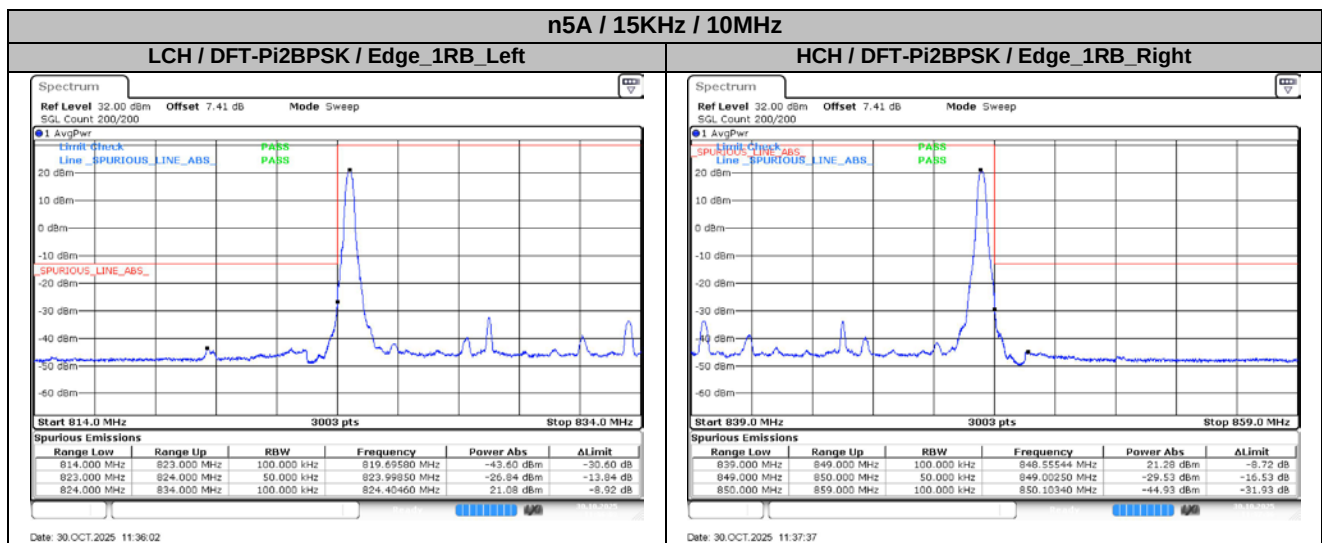
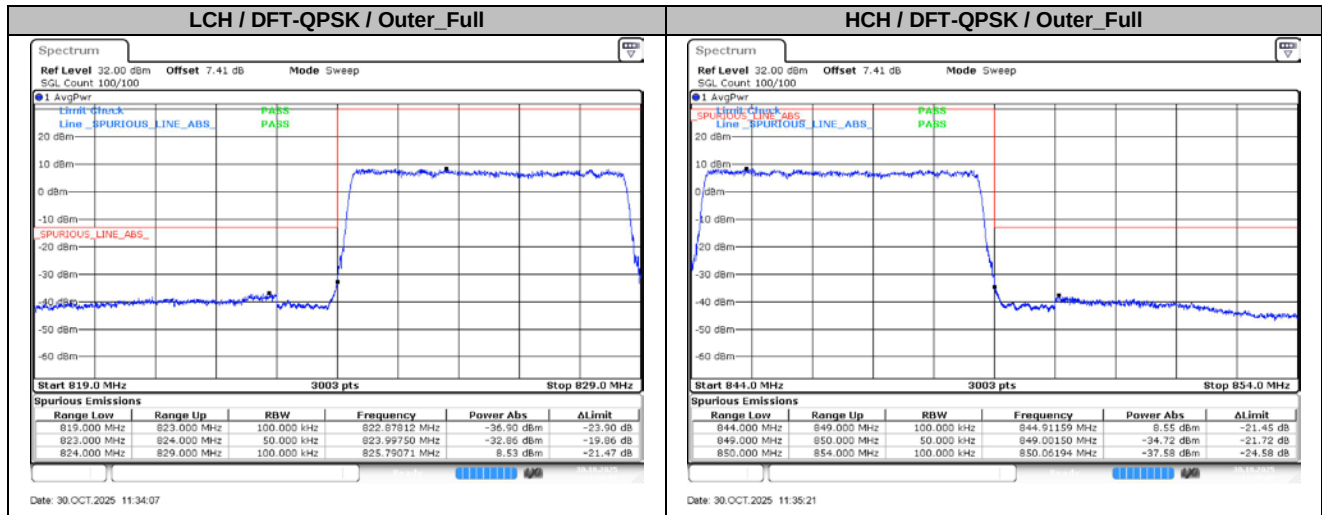


Date: 30.OCT.2025 11:32:42

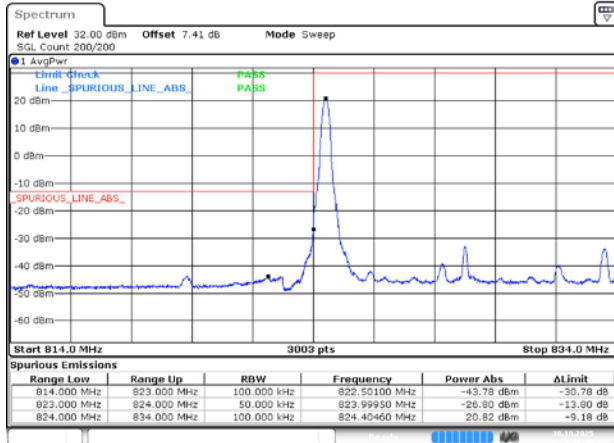
## 5. Conducted Band Edges

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

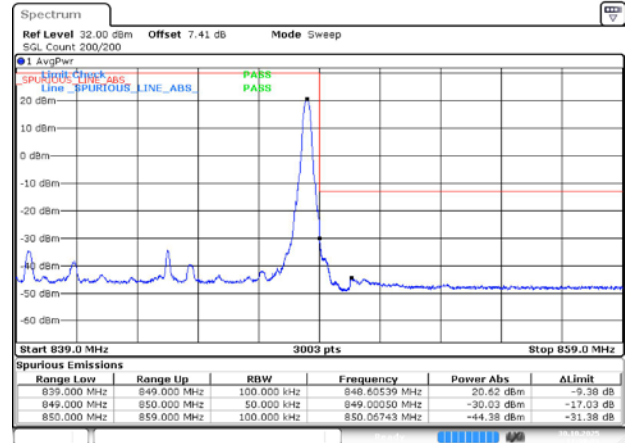




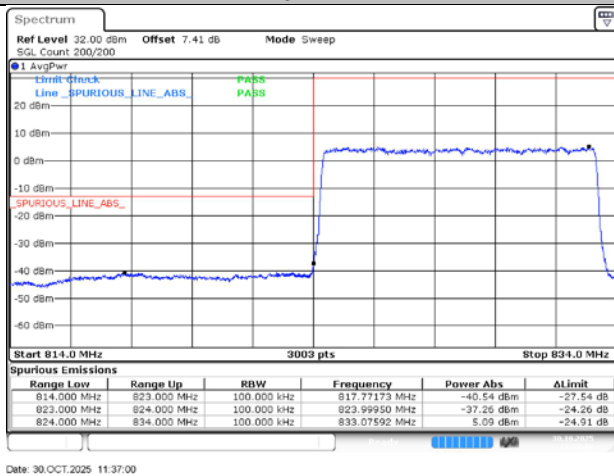
## LCH / DFT-QPSK / Edge\_1RB\_Left



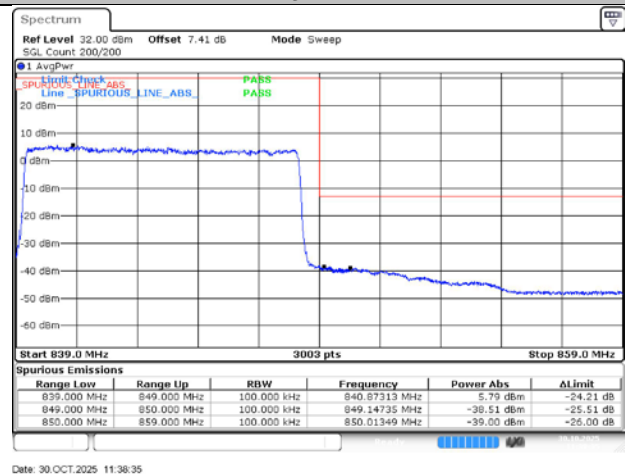
## HCH / DFT-QPSK / Edge\_1RB\_Right



## LCH / DFT-QPSK / Outer\_Full

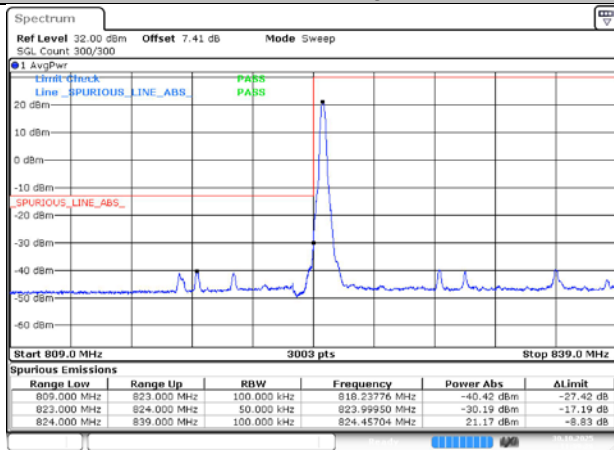


## HCH / DFT-QPSK / Outer\_Full

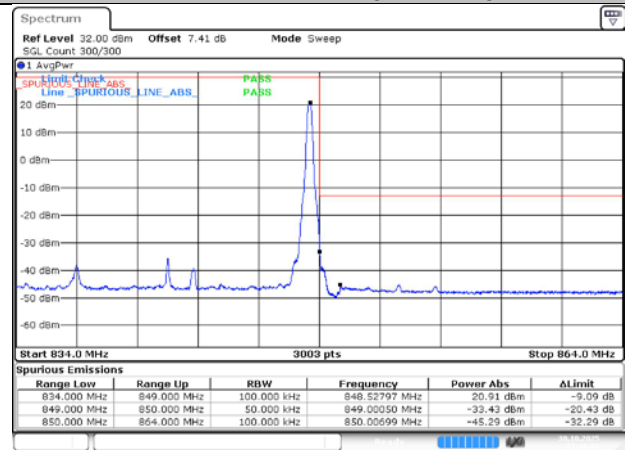


## n5A / 15KHz / 15MHz

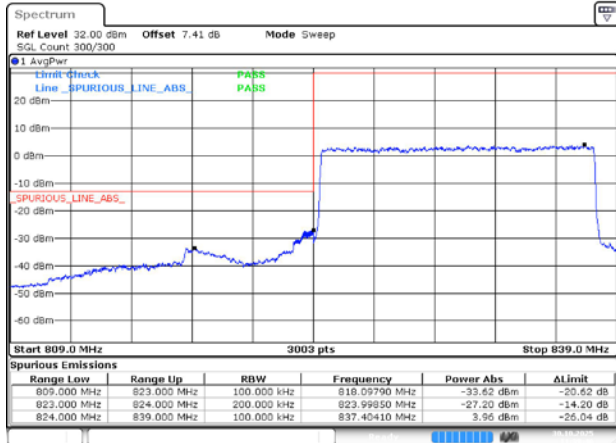
## LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



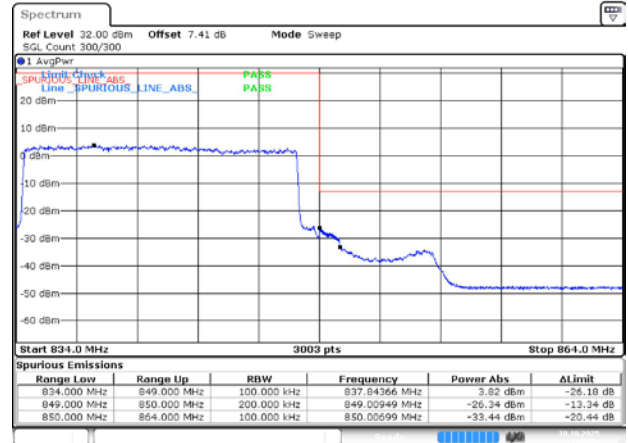
## HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



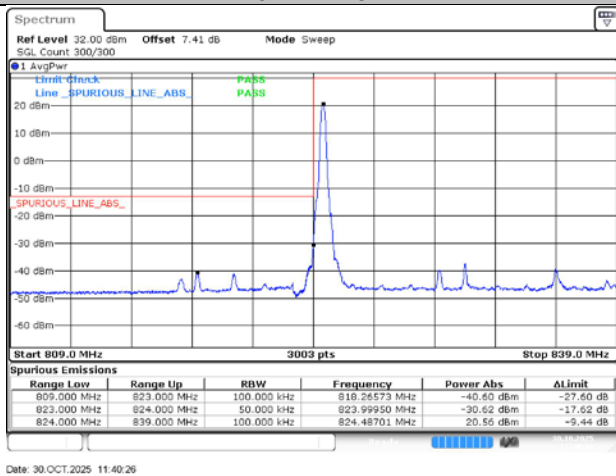
## LCH / DFT-Pi2BPSK / Outer\_Full



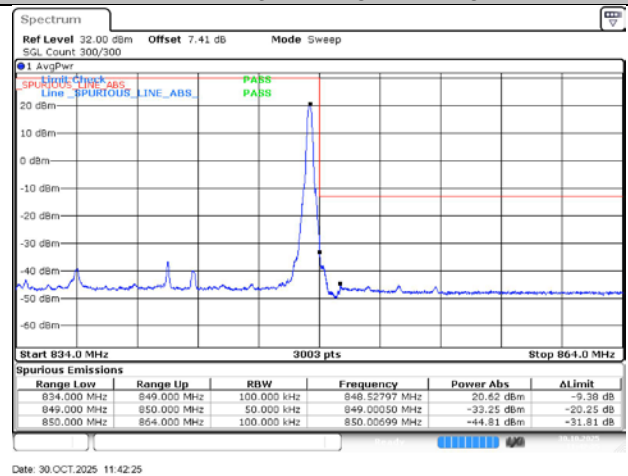
## HCH / DFT-Pi2BPSK / Outer\_Full



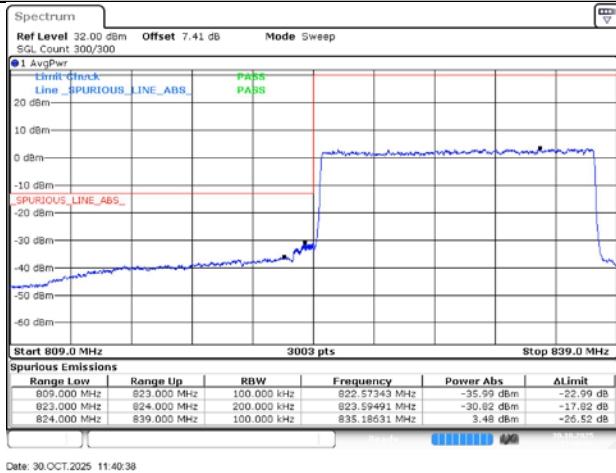
## LCH / DFT-QPSK / Edge\_1RB\_Left



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



## LCH / DFT-QPSK / Outer\_Full



## HCH / DFT-QPSK / Outer\_Full

