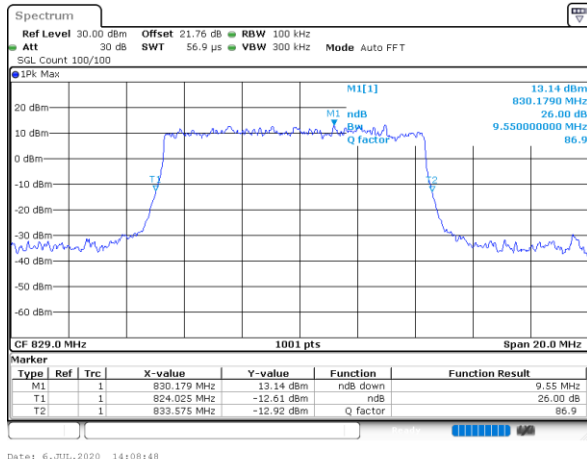


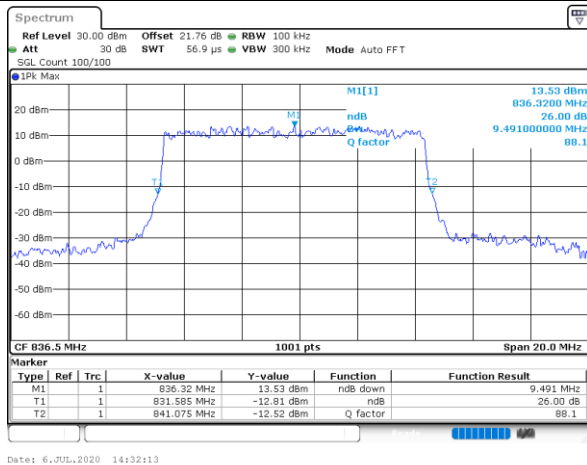
## FR1 n5 / 10MHz / DFT-S OFDM

### PI/2 BPSK

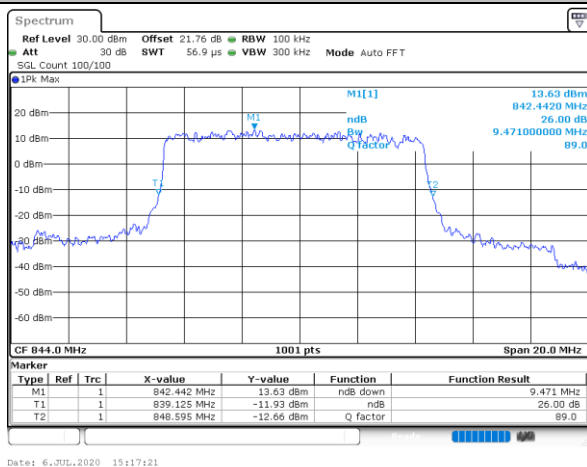
#### Lowest Channel



#### Middle Channel



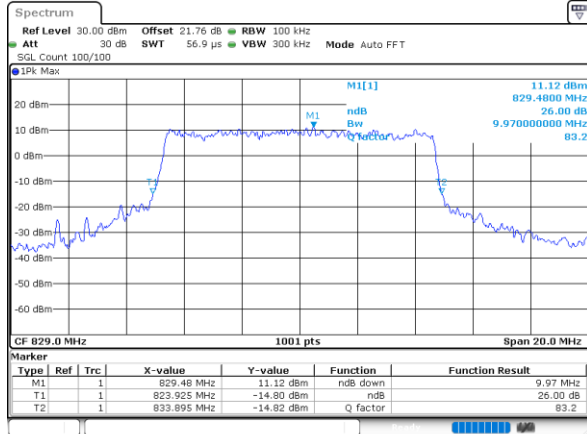
#### Highest Channel



## FR1 n5 / 10MHz / CP OFDM

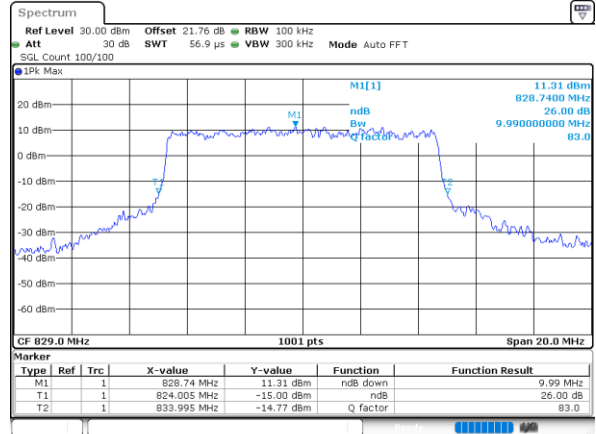
### QPSK

#### Lowest Channel

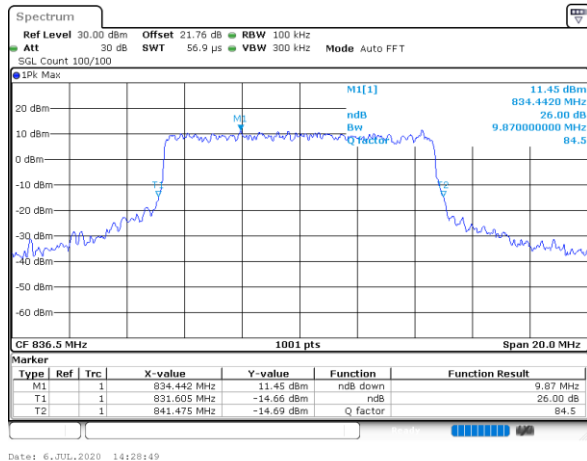


### 16QAM

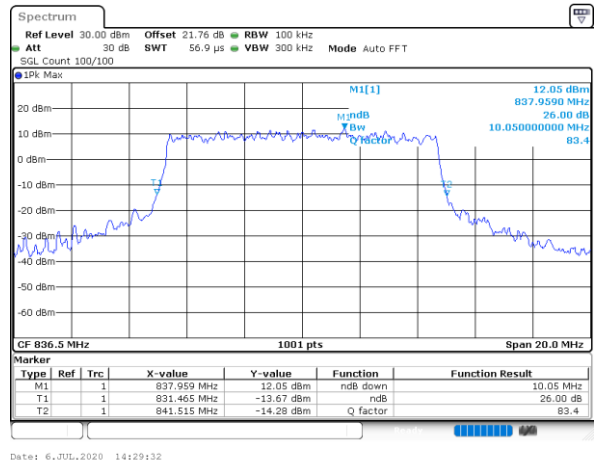
#### Lowest Channel



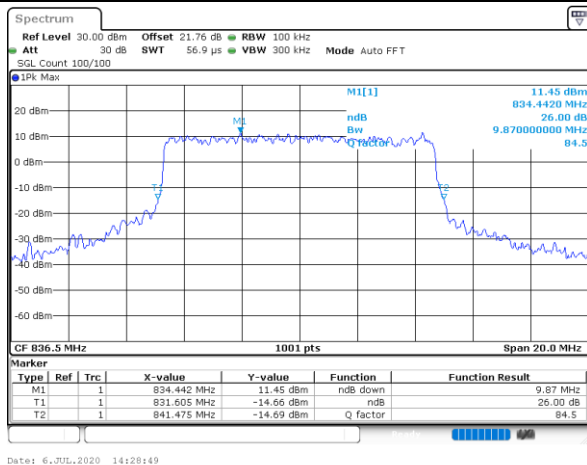
#### Middle Channel



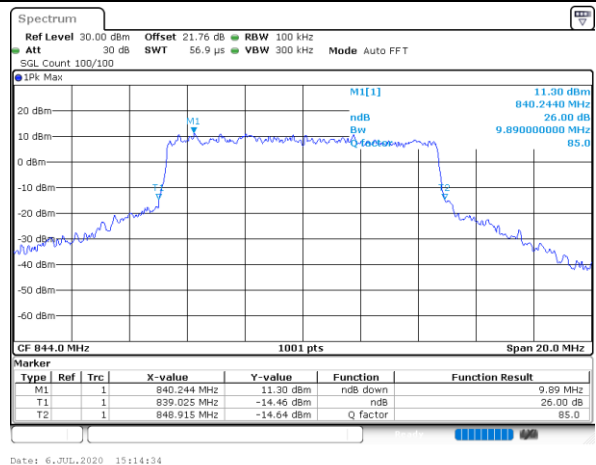
#### Middle Channel



#### Highest Channel



#### Highest Channel

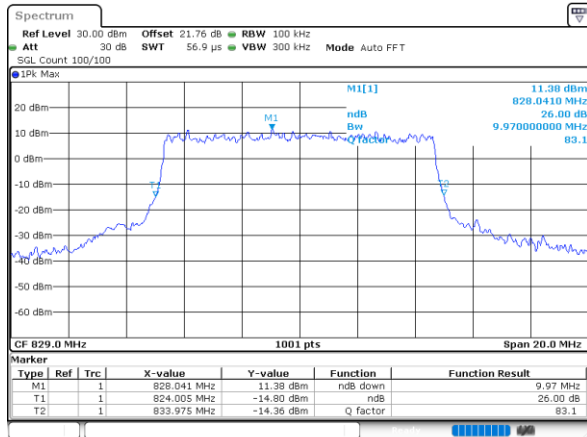




## FR1 n5 / 10MHz / CP OFDM

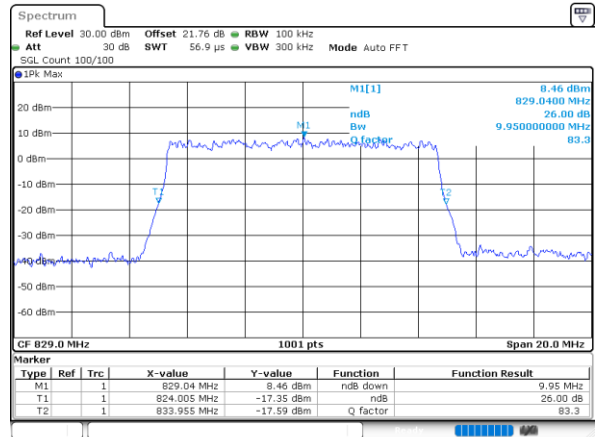
## 64QAM

## Lowest Channel

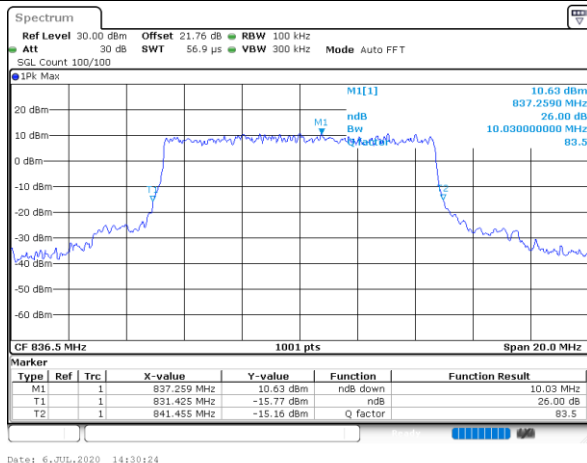


## 256QAM

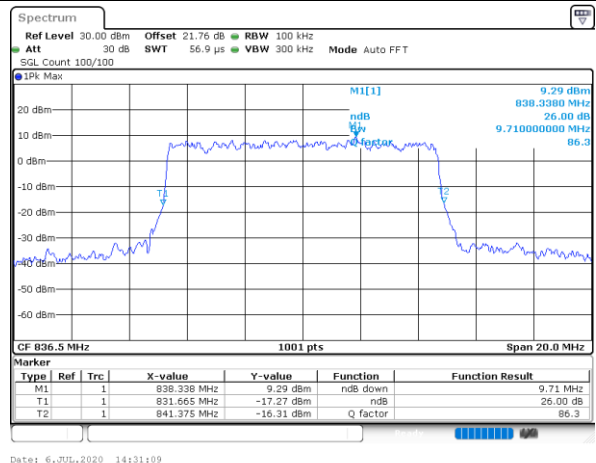
## Lowest Channel



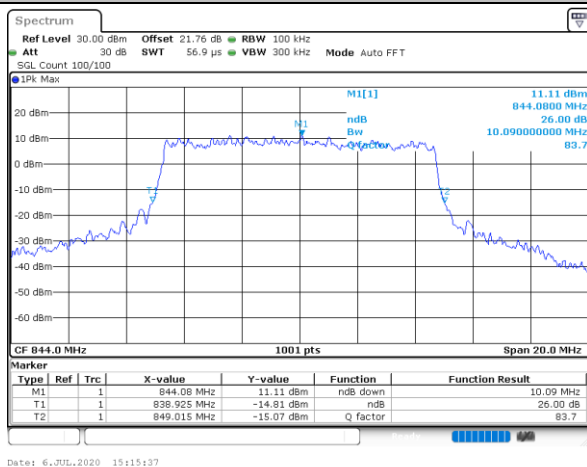
## Middle Channel



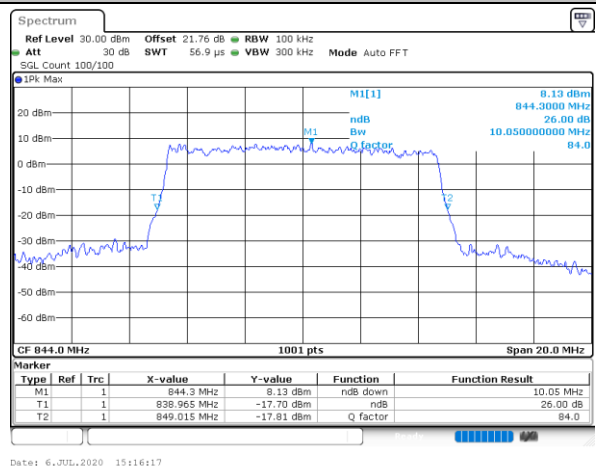
## Middle Channel



## Highest Channel



## Highest Channel

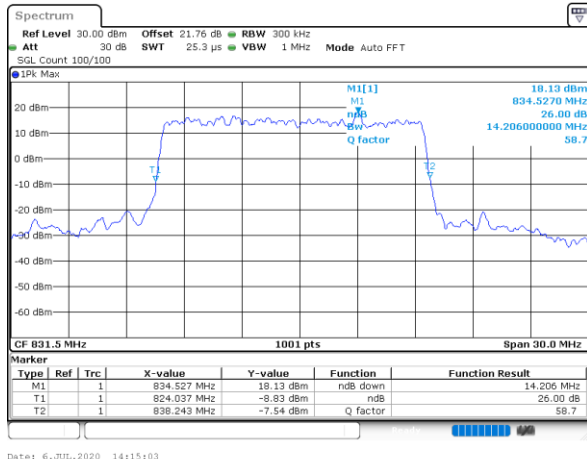




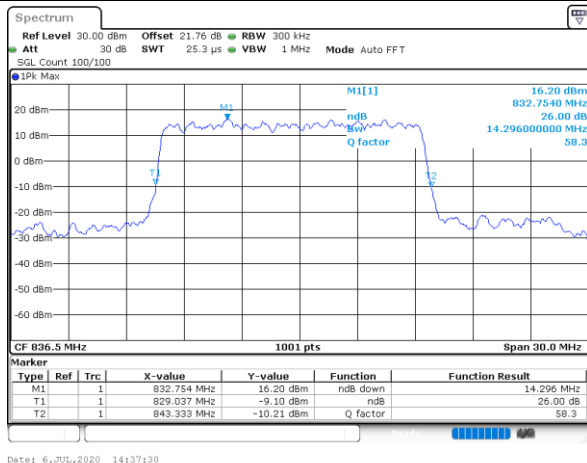
## FR1 n5 / 15MHz / DFT-S OFDM

## PI/2 BPSK

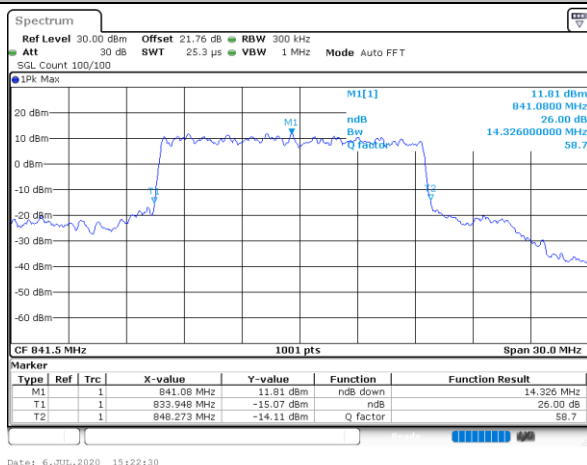
## Lowest Channel



## Middle Channel



## Highest Channel

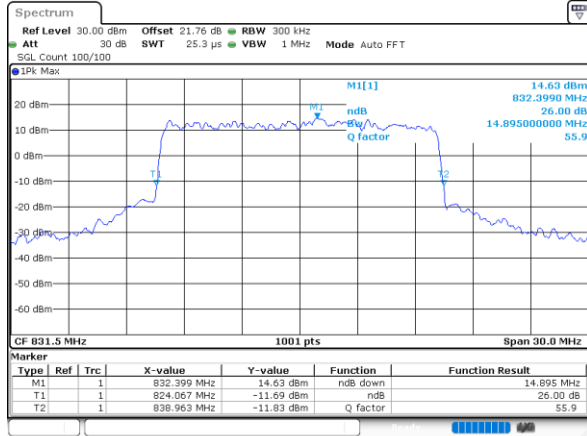




## FR1 n5 / 15MHz / CP OFDM

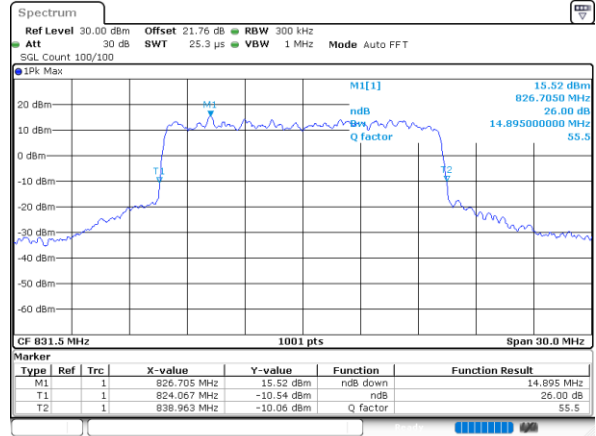
## QPSK

## Lowest Channel

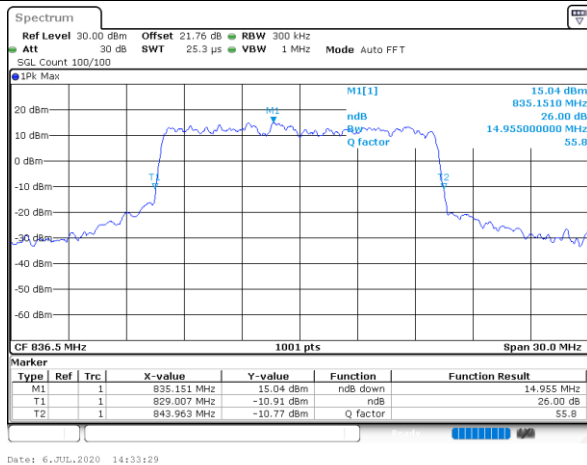


## 16QAM

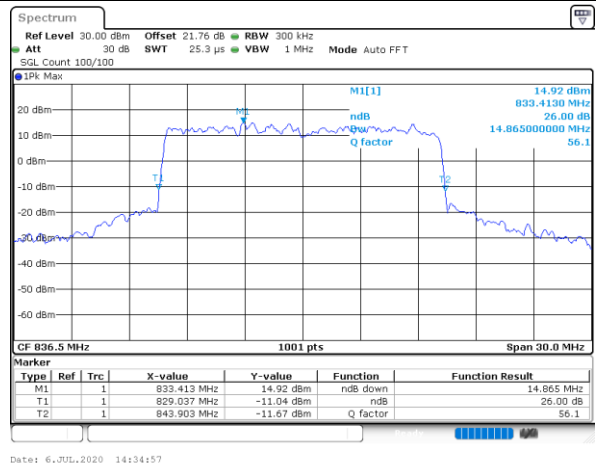
## Lowest Channel



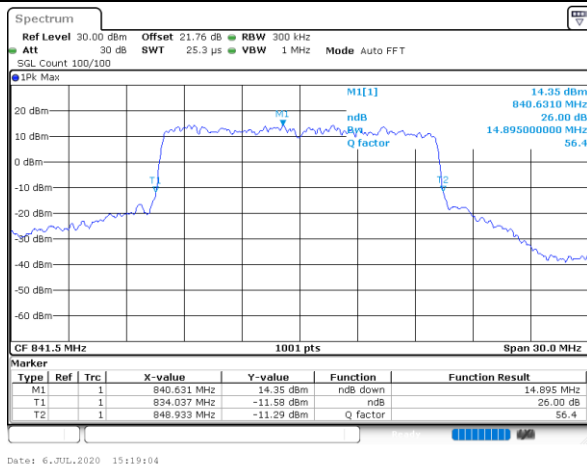
## Middle Channel



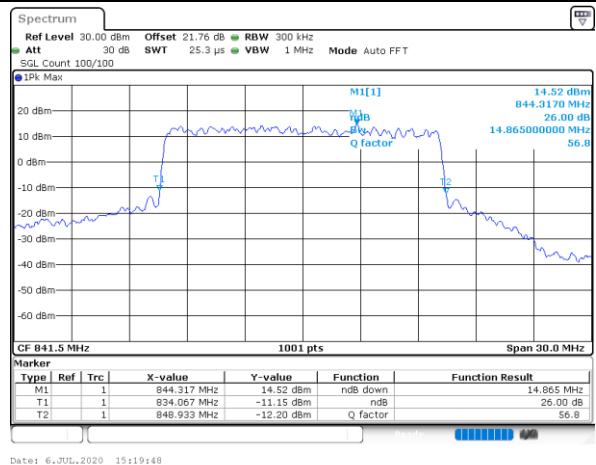
## Middle Channel



## Highest Channel



## Highest Channel

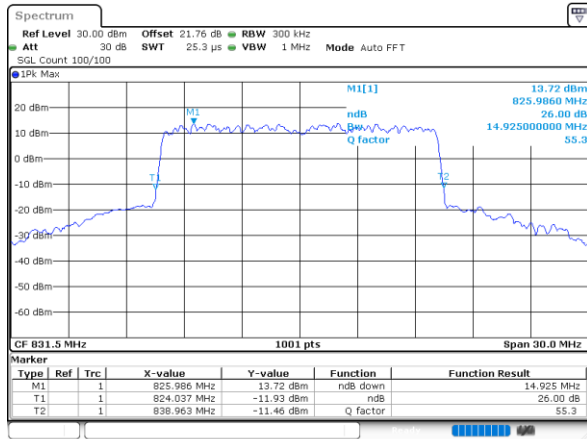




## FR1 n5 / 15MHz / CP OFDM

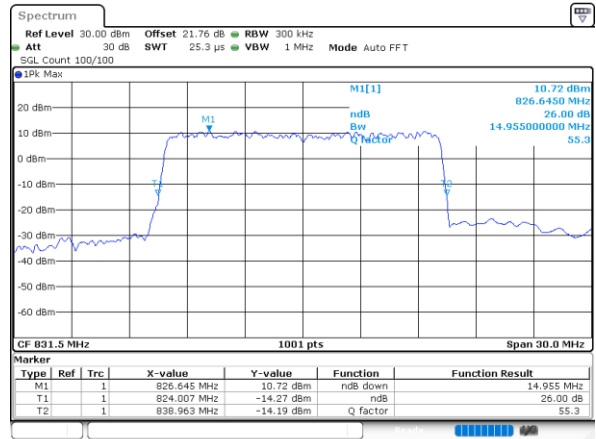
## 64QAM

## Lowest Channel

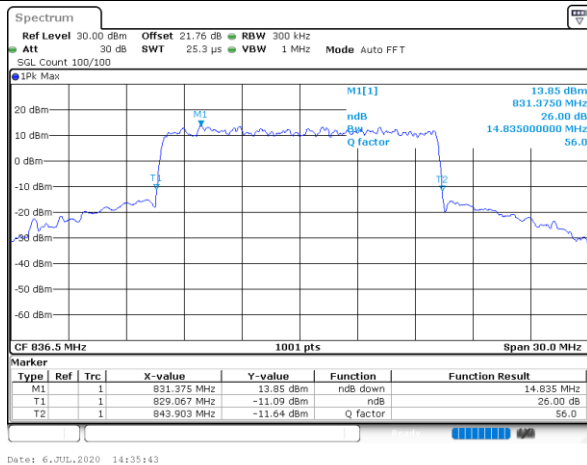


## 256QAM

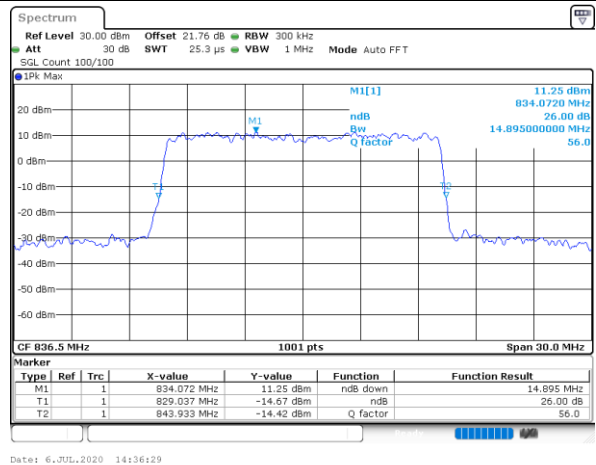
## Lowest Channel



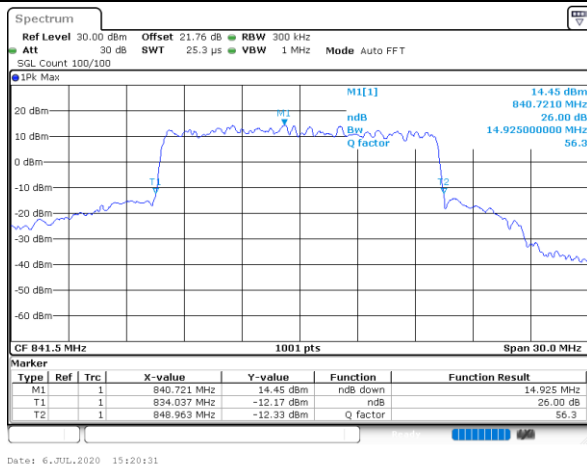
## Middle Channel



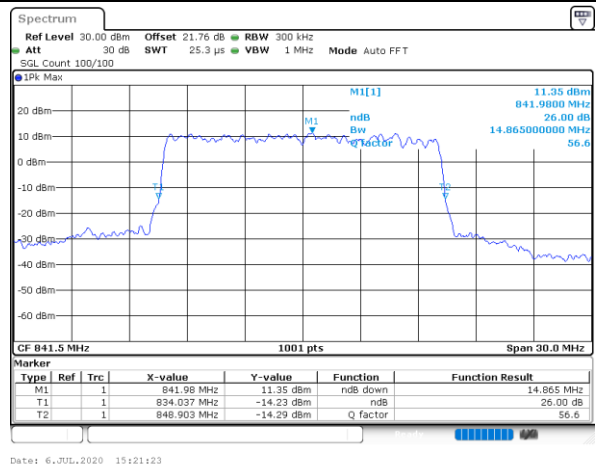
## Middle Channel



## Highest Channel



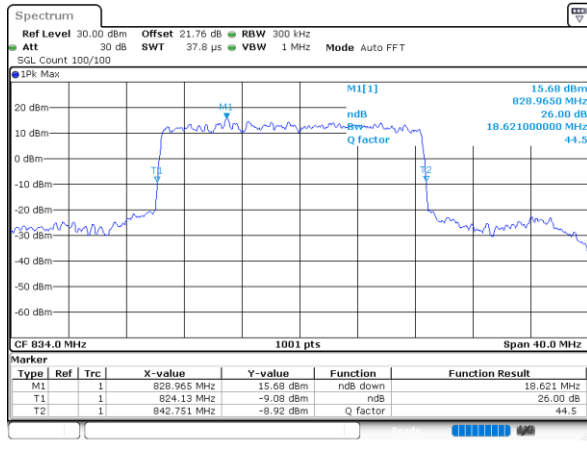
## Highest Channel



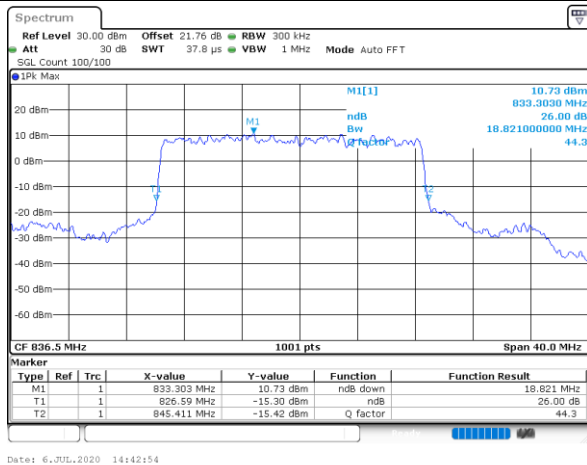
## FR1 n5 / 20MHz / DFT-S OFDM

### PI/2 BPSK

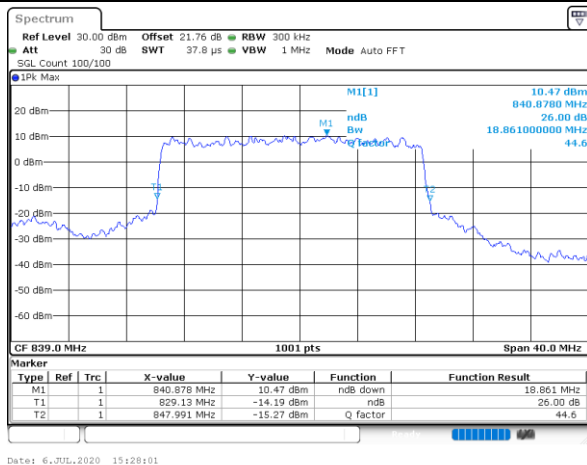
#### Lowest Channel



#### Middle Channel



#### Highest Channel

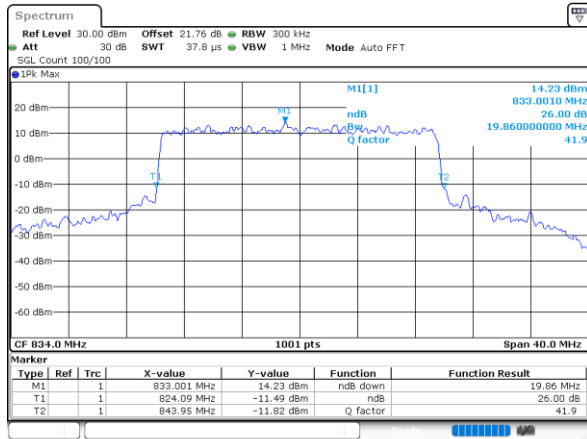




## FR1 n5 / 20MHz / CP OFDM

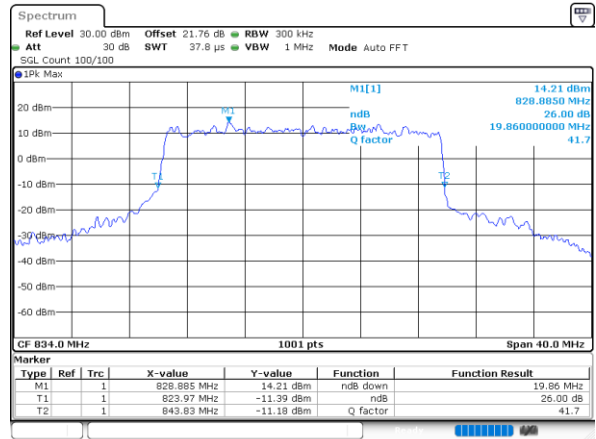
## QPSK

## Lowest Channel

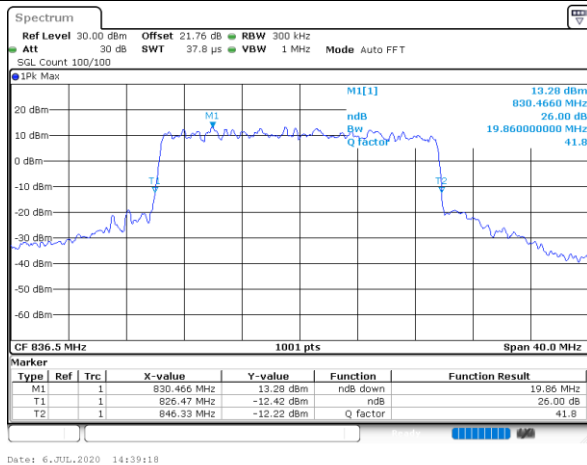


## 16QAM

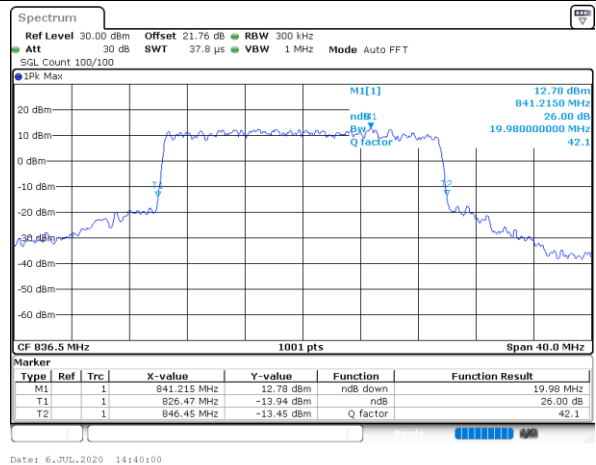
## Lowest Channel



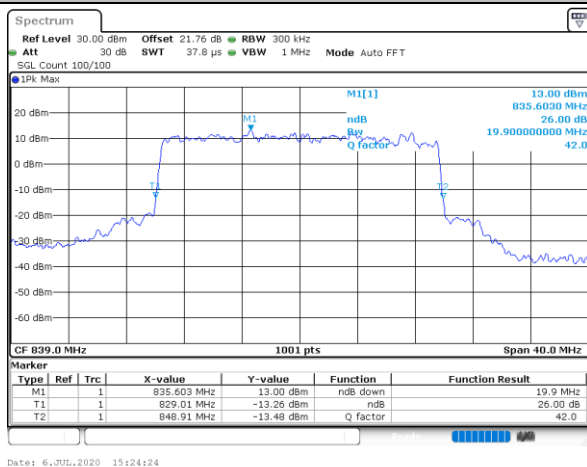
## Middle Channel



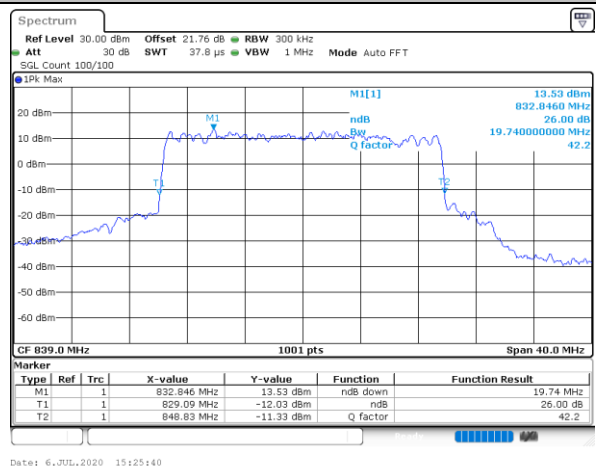
## Middle Channel



## Highest Channel



## Highest Channel

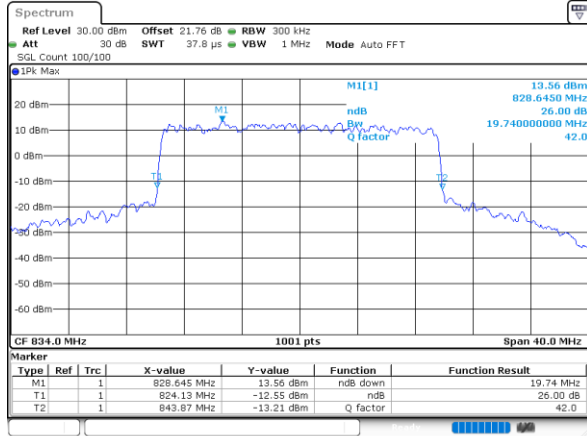




## FR1 n5 / 20MHz / CP OFDM

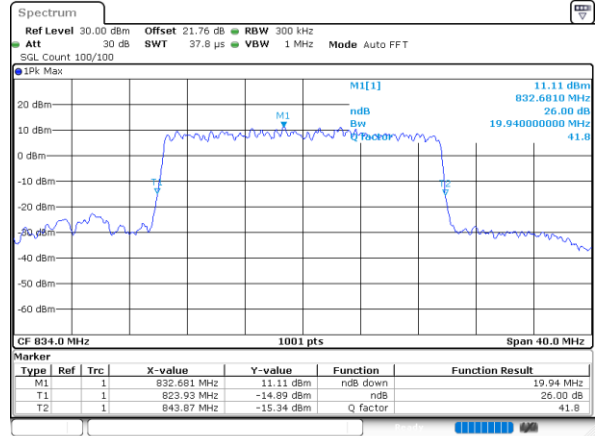
## 64QAM

## Lowest Channel

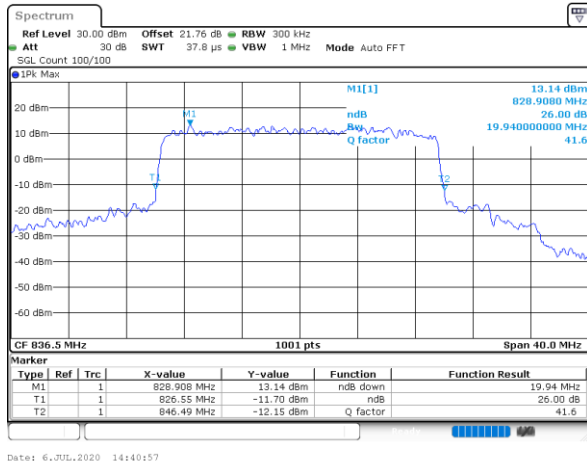


## 256QAM

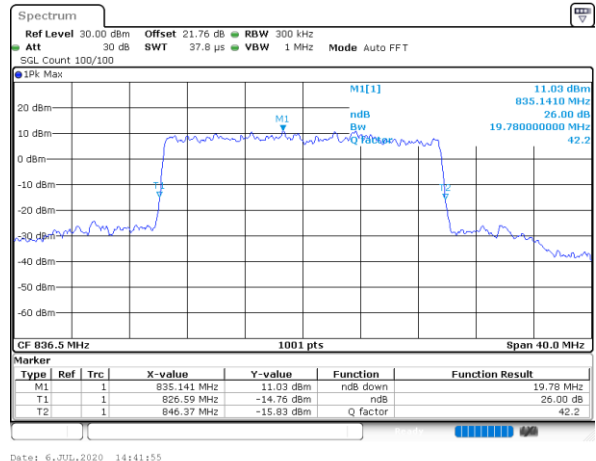
## Lowest Channel



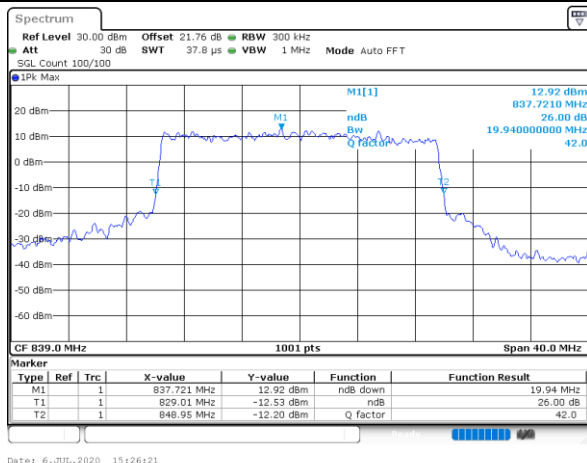
## Middle Channel



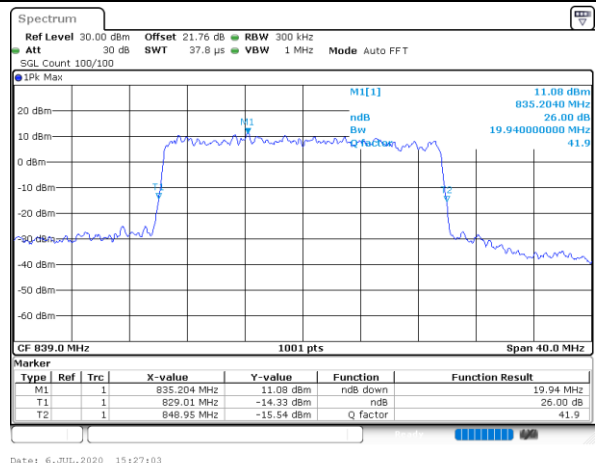
## Middle Channel



## Highest Channel



## Highest Channel



**Occupied Bandwidth**

| Mode       | FR1 n5 : 99%OBW(MHz) / DFT-S OFDM |  |           |  |           |  |           |  |
|------------|-----------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW         | 5MHz                              |  | 10MHz     |  | 15MHz     |  | 20MHz     |  |
| Mod.       | PI/2 BPSK                         |  | PI/2 BPSK |  | PI/2 BPSK |  | PI/2 BPSK |  |
| Lowest CH  | 4.52                              |  | 8.95      |  | 13.43     |  | 17.82     |  |
| Middle CH  | 4.48                              |  | 8.95      |  | 13.43     |  | 17.82     |  |
| Highest CH | 4.49                              |  | 8.89      |  | 13.49     |  | 17.86     |  |

| Mode       | FR1 n5 : 99%OBW (MHz) / CP OFDM |       |       |       |       |       |       |       |
|------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                            |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                            | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 4.48                            | 4.48  | 9.27  | 9.29  | 14.12 | 14.18 | 18.90 | 18.86 |
| Middle CH  | 4.50                            | 4.51  | 9.27  | 9.29  | 14.09 | 14.15 | 18.90 | 18.90 |
| Highest CH | 4.50                            | 4.49  | 9.27  | 9.29  | 14.06 | 14.12 | 18.98 | 18.86 |

| Mode       | FR1 n5 : 99%OBW (MHz) / CP OFDM |        |       |        |       |        |       |        |
|------------|---------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 5MHz                            |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                           | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 4.48                            | 4.50   | 9.29  | 9.27   | 14.12 | 14.09  | 18.82 | 18.82  |
| Middle CH  | 4.50                            | 4.48   | 9.27  | 9.29   | 14.12 | 14.12  | 18.90 | 18.82  |
| Highest CH | 4.50                            | 4.50   | 9.31  | 9.29   | 14.12 | 14.15  | 18.86 | 18.78  |

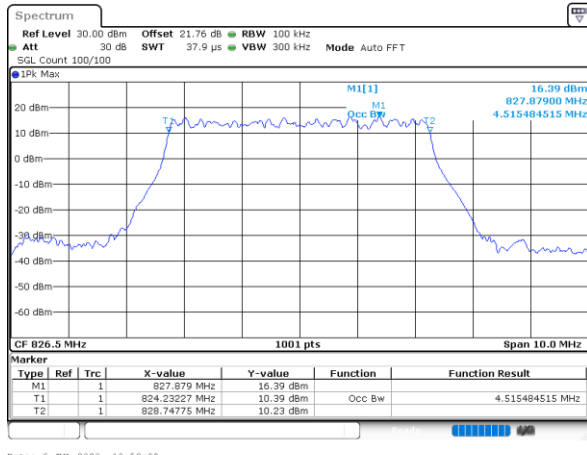
**Note:** The CP-OFDM (worst case) is more wider bandwidth than the DFT-S OFDM's.



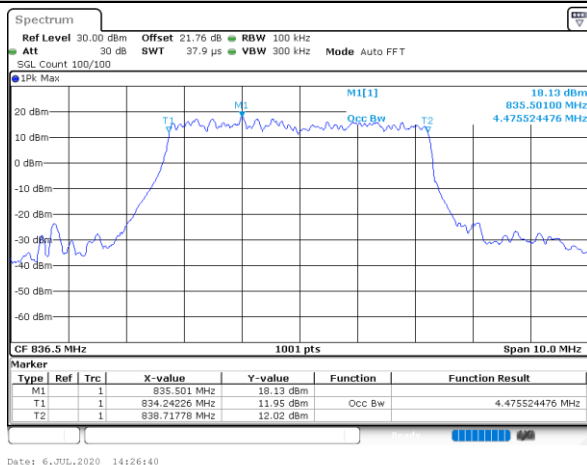
## FR1 n5 / 5MHz / DFT-S OFDM

## PI/2 BPSK

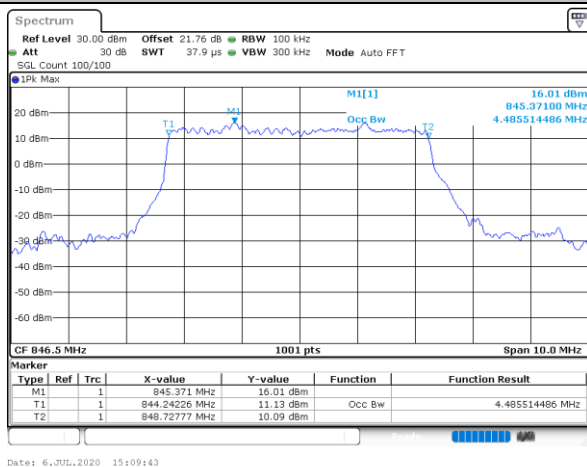
## Lowest Channel



## Middle Channel



## Highest Channel

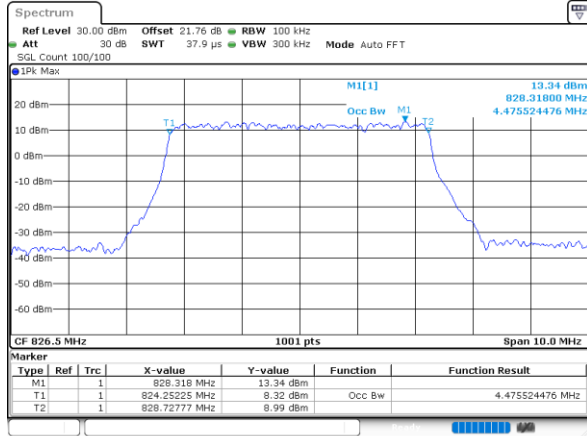




## FR1 n5 / 5MHz / CP OFDM

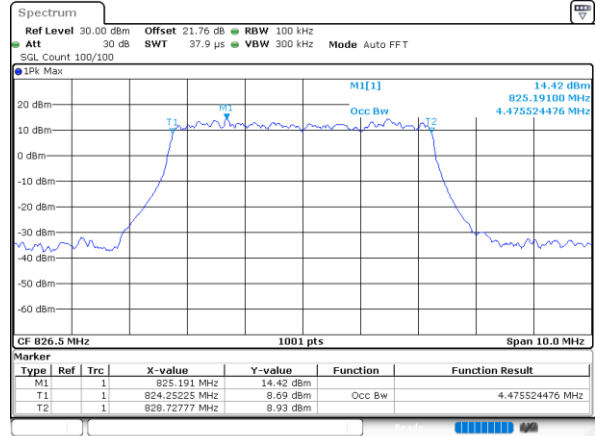
## QPSK

## Lowest Channel

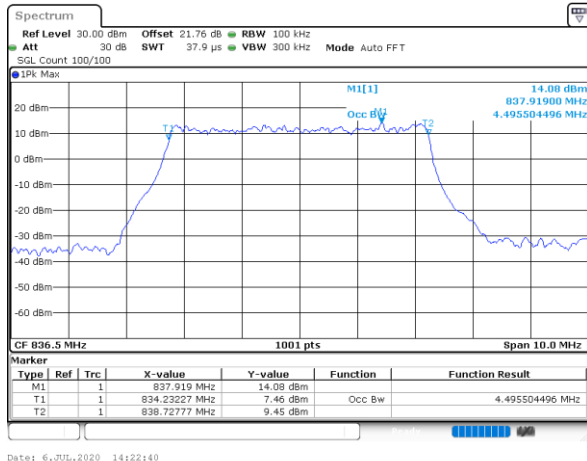


## 16QAM

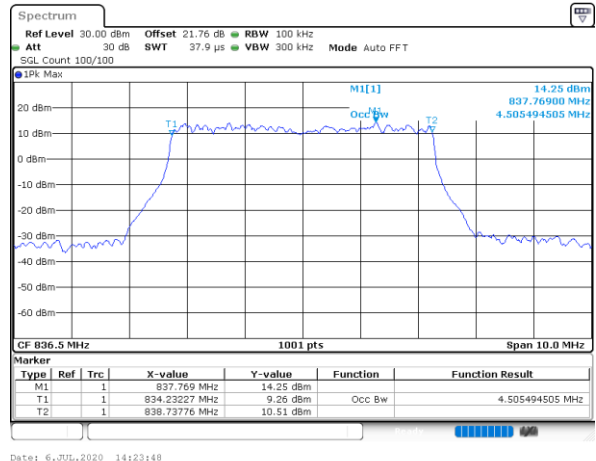
## Lowest Channel



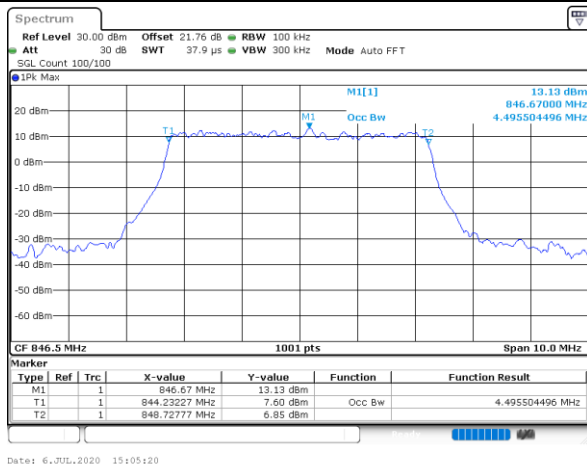
## Middle Channel



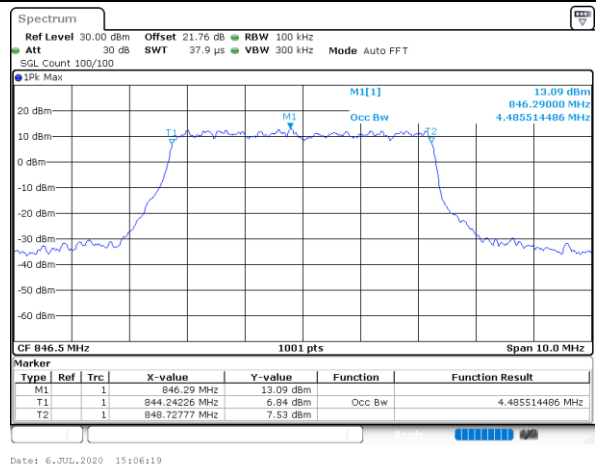
## Middle Channel



## Highest Channel



## Highest Channel

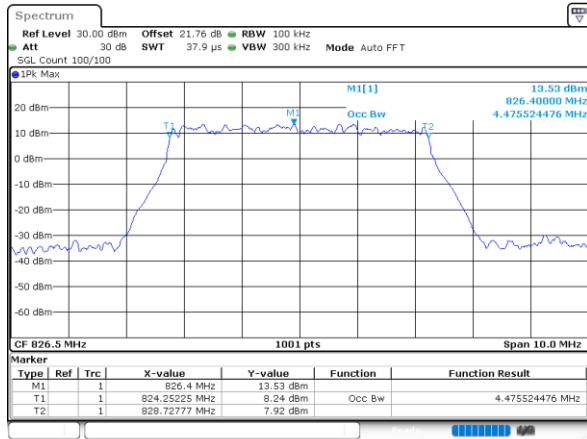




## FR1 n5 / 5MHz / CP OFDM

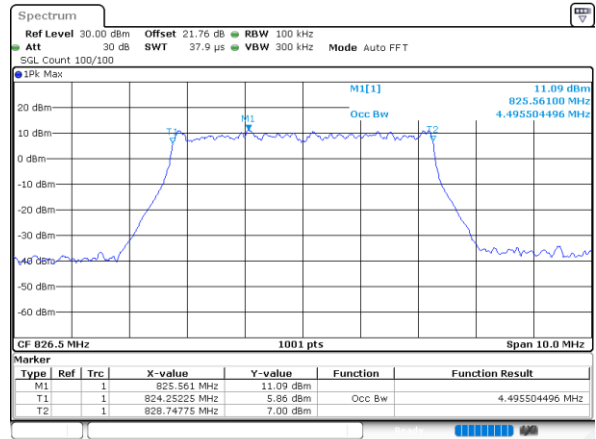
## 64QAM

## Lowest Channel

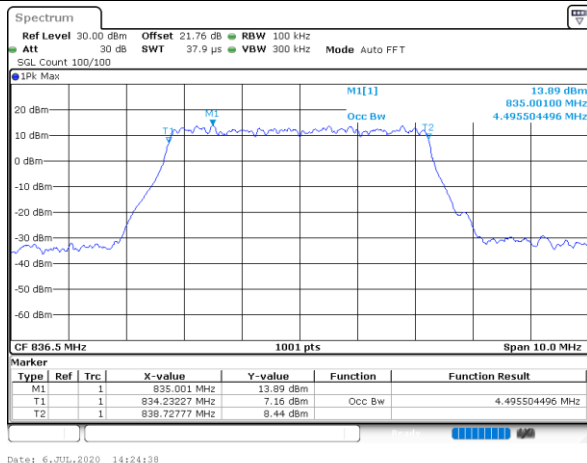


## 256QAM

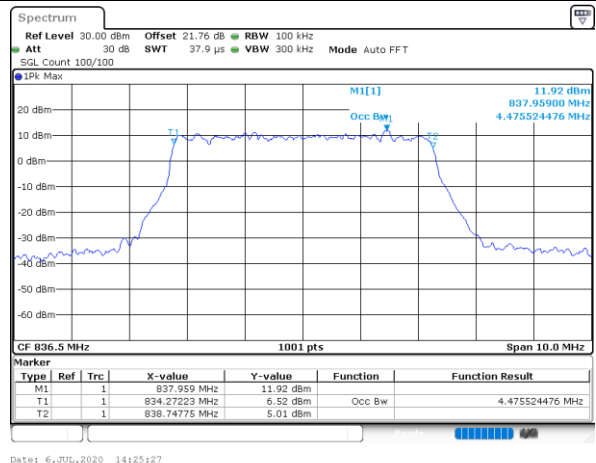
## Lowest Channel



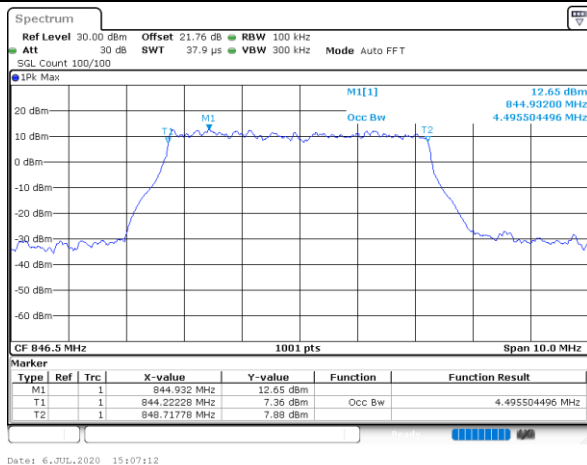
## Middle Channel



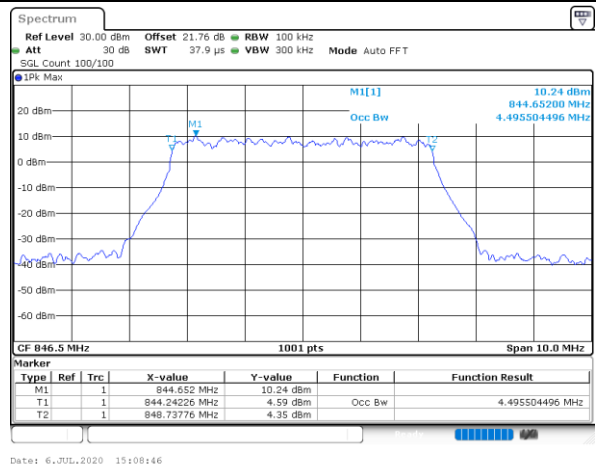
## Middle Channel



## Highest Channel



## Highest Channel

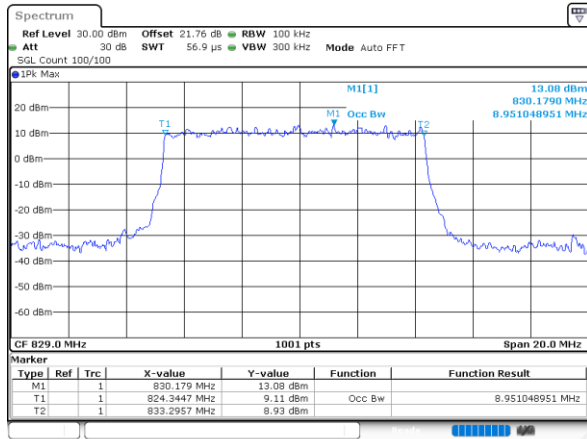




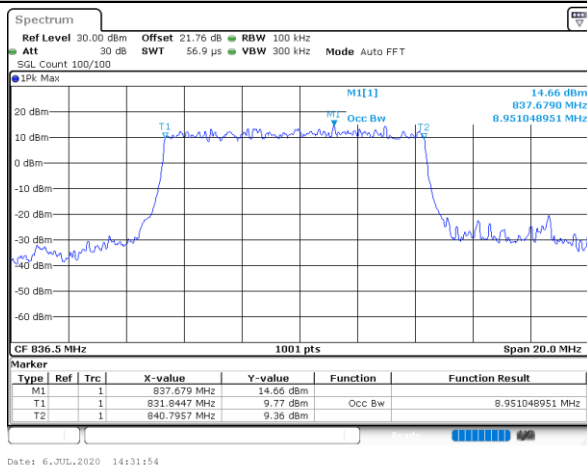
## FR1 n5 / 10MHz / DFT-S OFDM

### PI/2 BPSK

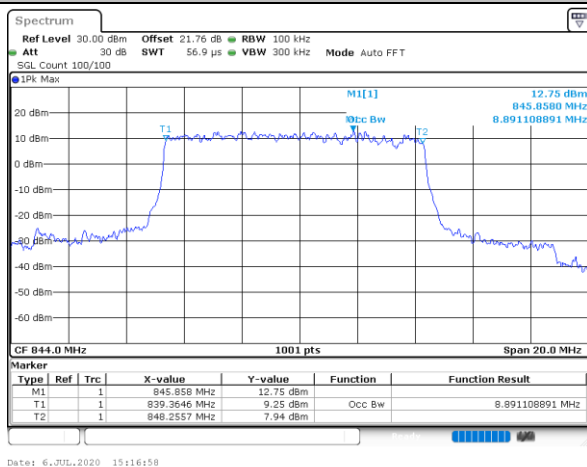
#### Lowest Channel



#### Middle Channel



#### Highest Channel

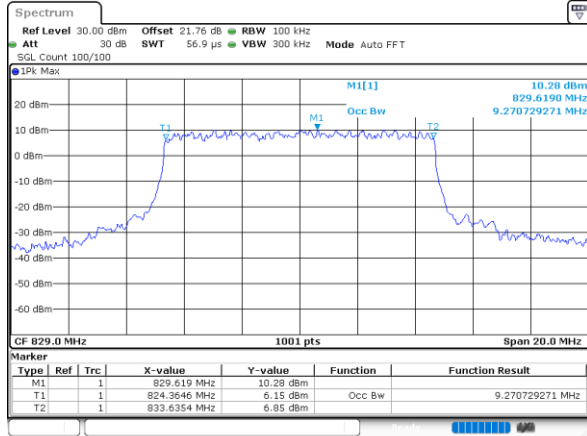




## FR1 n5 / 10MHz / CP OFDM

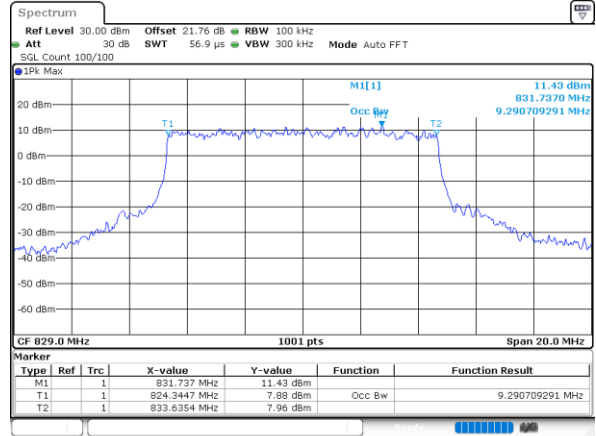
## QPSK

## Lowest Channel

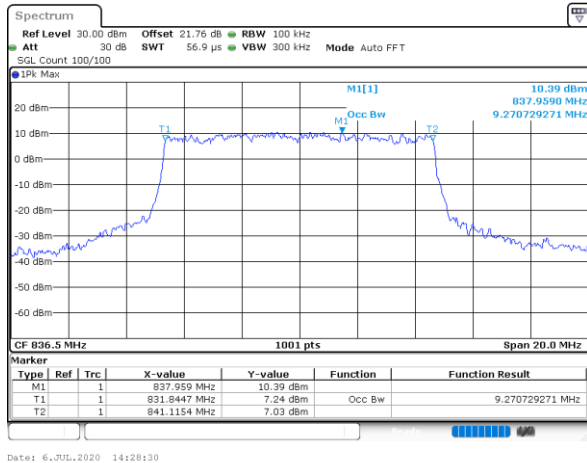


## 16QAM

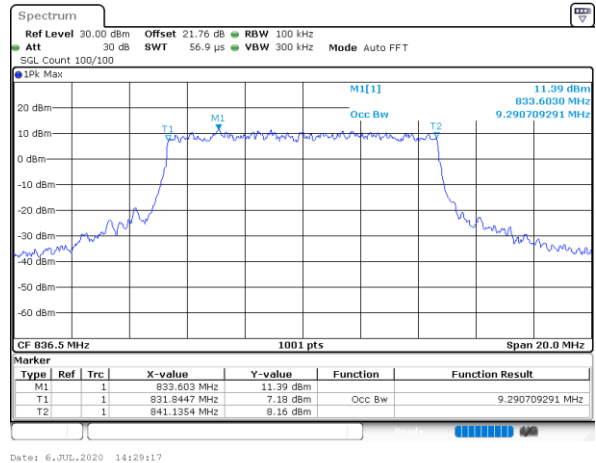
## Lowest Channel



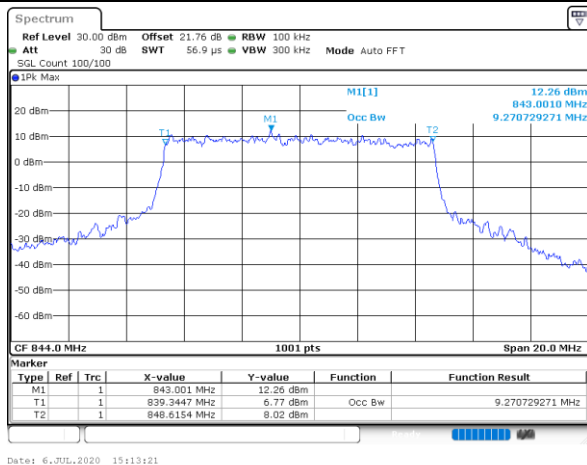
## Middle Channel



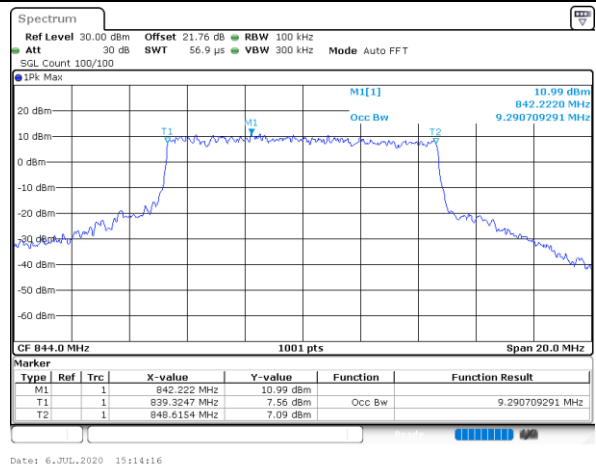
## Middle Channel



## Highest Channel



## Highest Channel

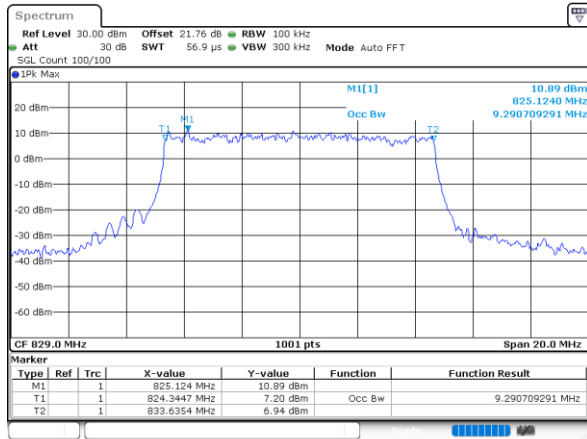




## FR1 n5 / 10MHz / CP OFDM

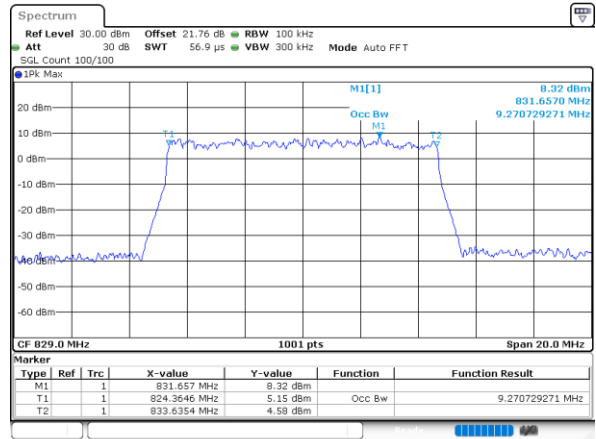
## 64QAM

## Lowest Channel

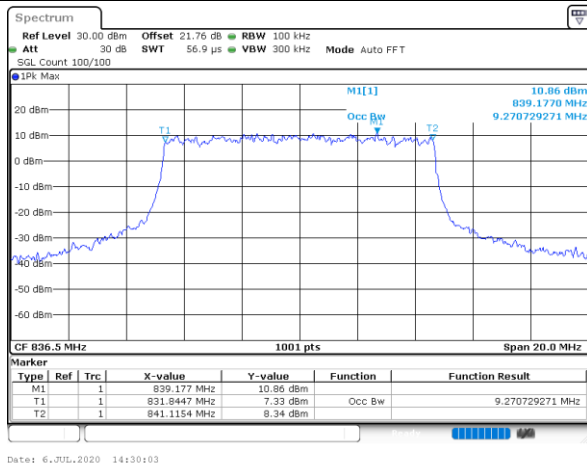


## 256QAM

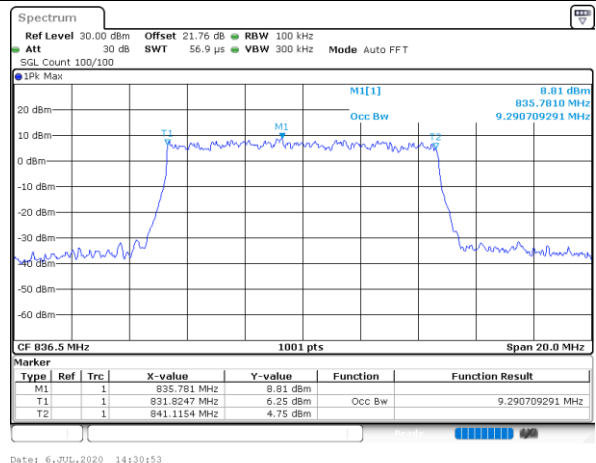
## Lowest Channel



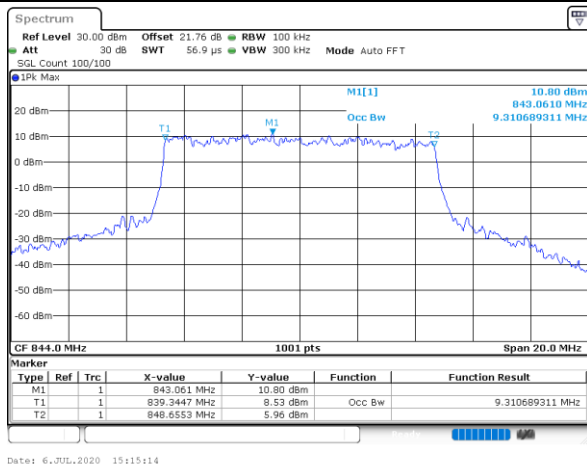
## Middle Channel



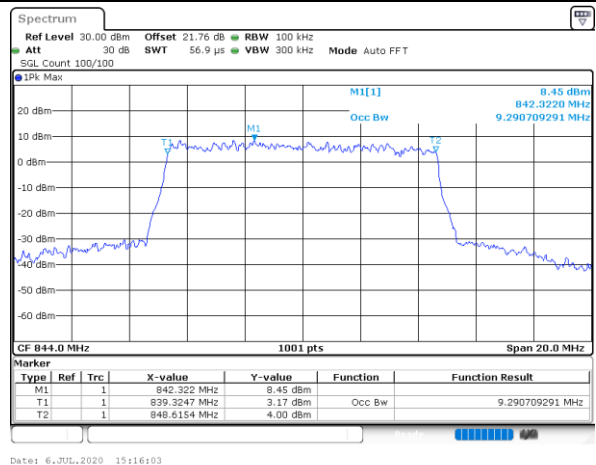
## Middle Channel



## Highest Channel



## Highest Channel

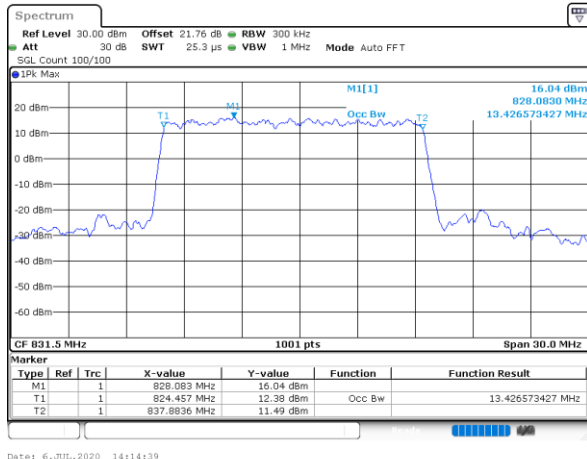




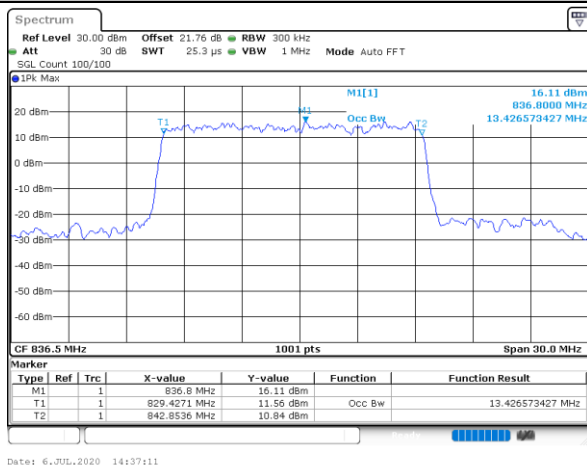
## FR1 n5 / 15MHz / DFT-S OFDM

## PI/2 BPSK

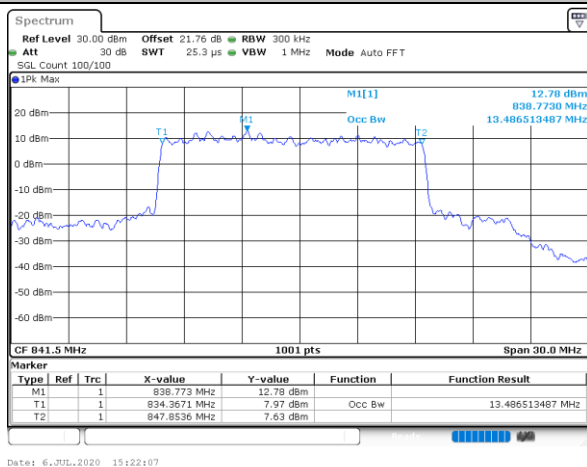
## Lowest Channel



## Middle Channel



## Highest Channel

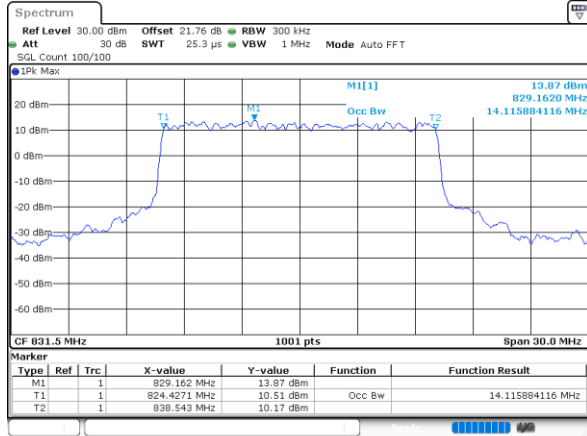




## FR1 n5 / 15MHz / CP OFDM

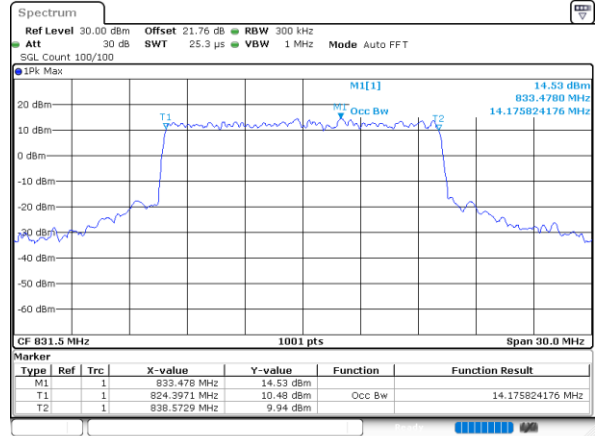
## QPSK

## Lowest Channel

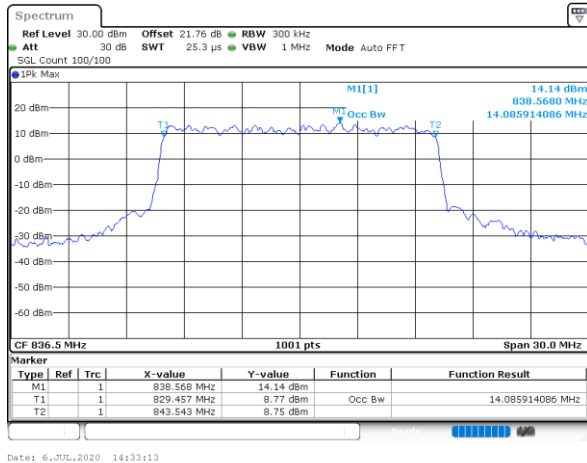


## 16QAM

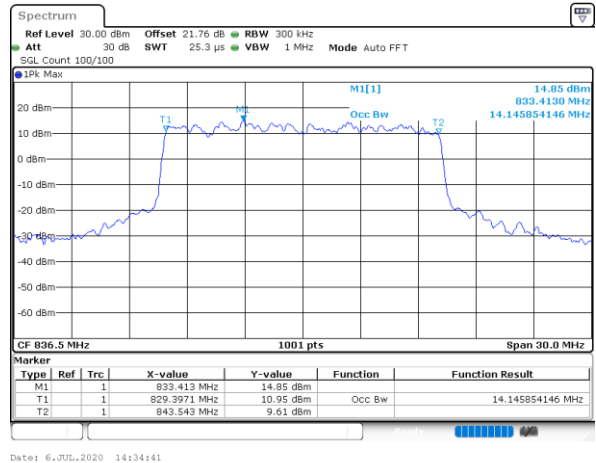
## Lowest Channel



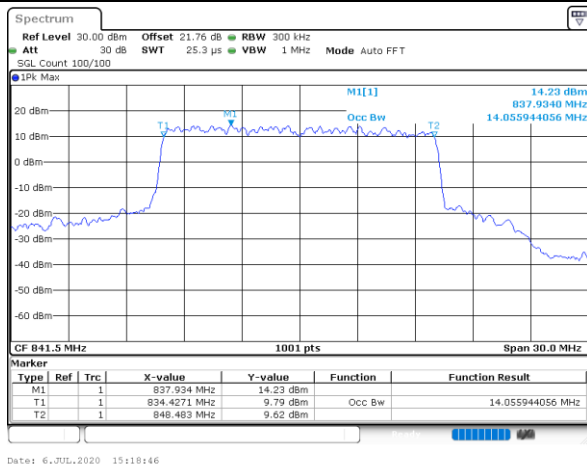
## Middle Channel



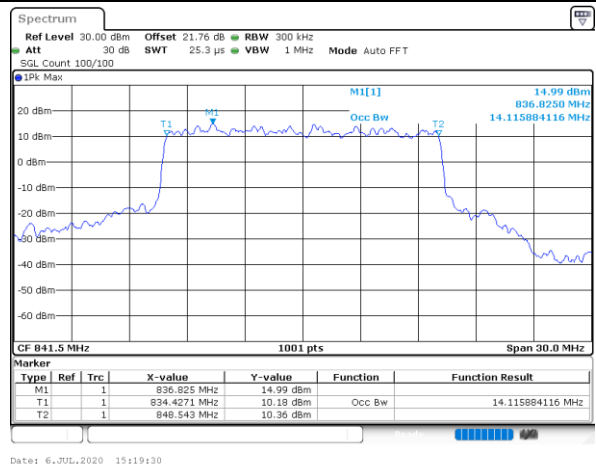
## Middle Channel



## Highest Channel



## Highest Channel

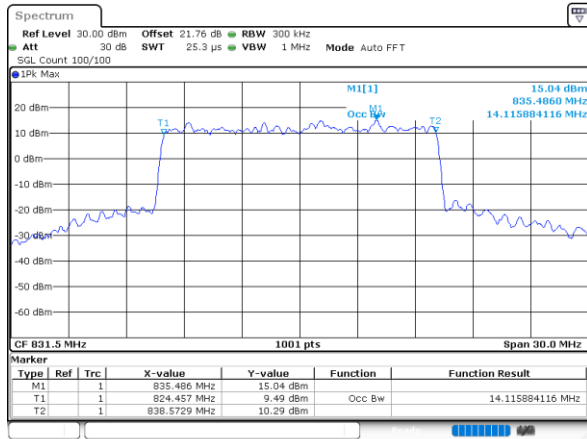




## FR1 n5 / 15MHz / CP OFDM

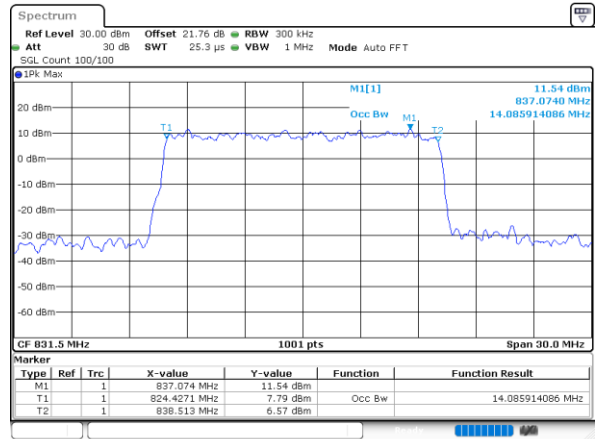
## 64QAM

## Lowest Channel

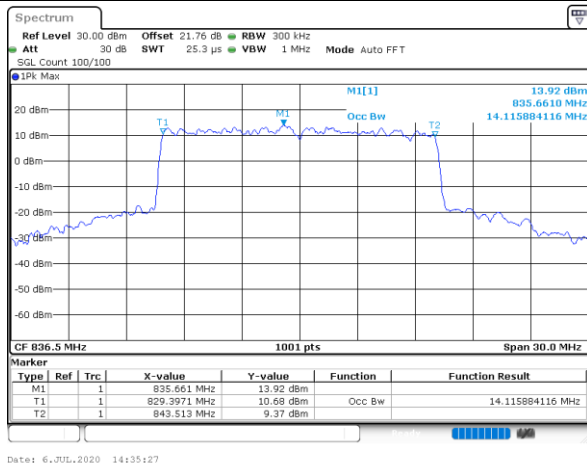


## 256QAM

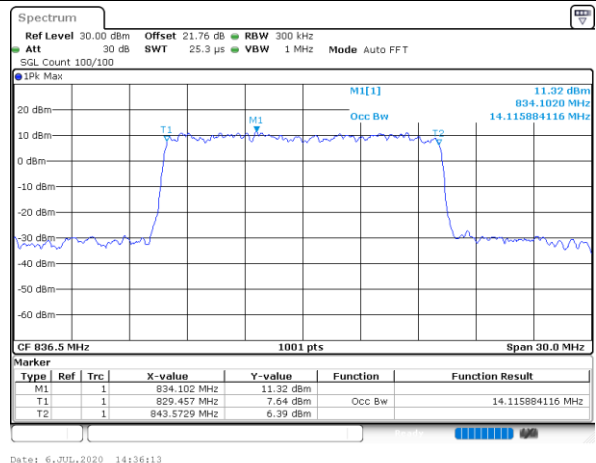
## Lowest Channel



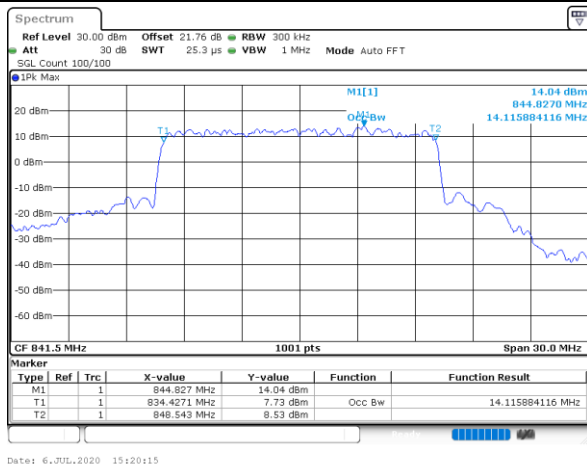
## Middle Channel



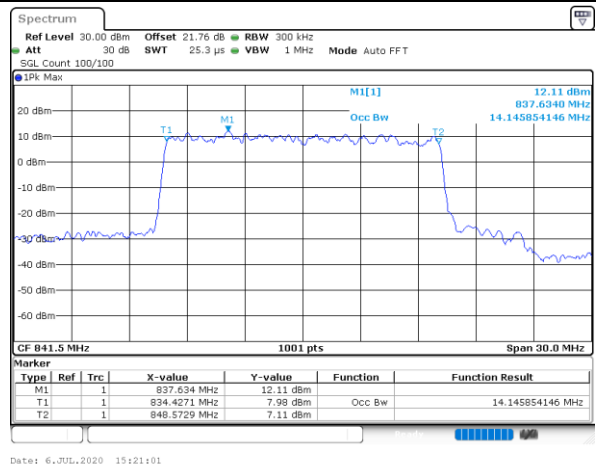
## Middle Channel



## Highest Channel



## Highest Channel

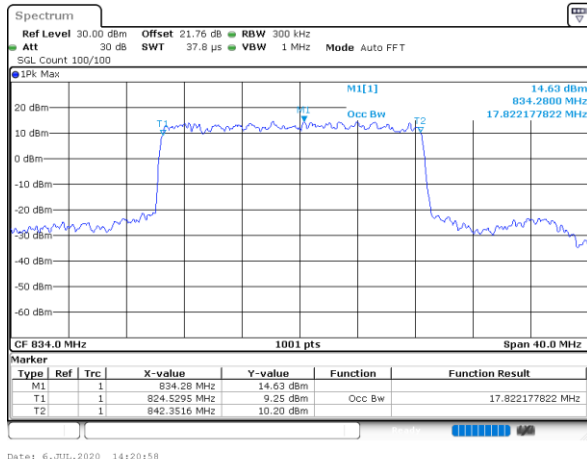




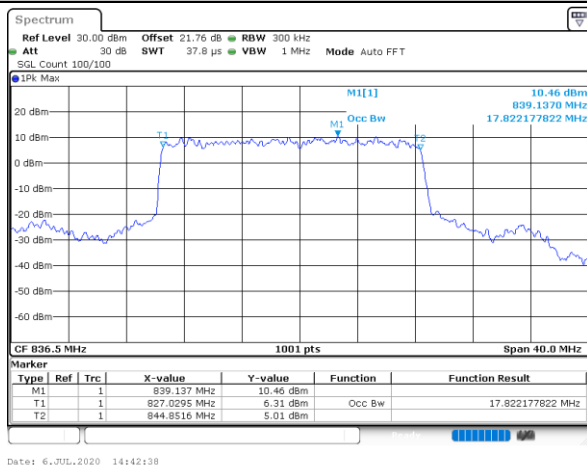
## FR1 n5 / 20MHz / DFT-S OFDM

## PI/2 BPSK

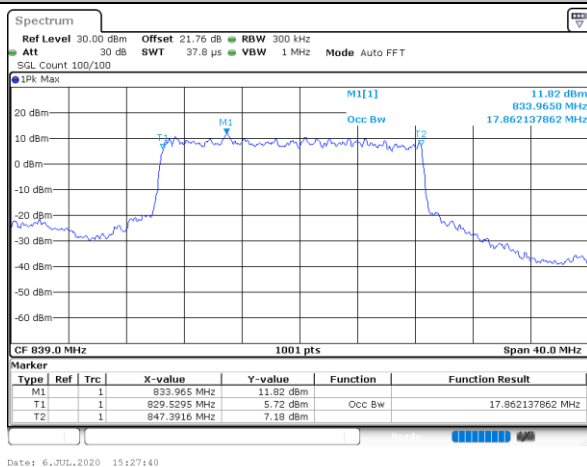
## Lowest Channel



## Middle Channel



## Highest Channel

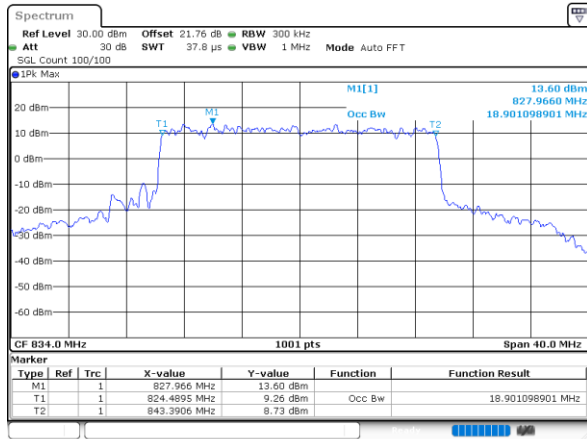




## FR1 n5 / 20MHz / CP OFDM

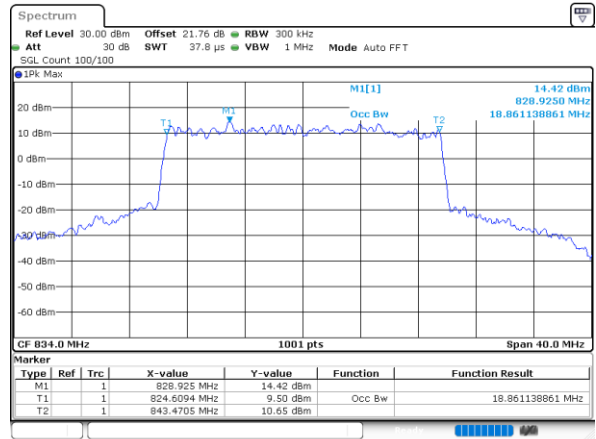
## QPSK

## Lowest Channel

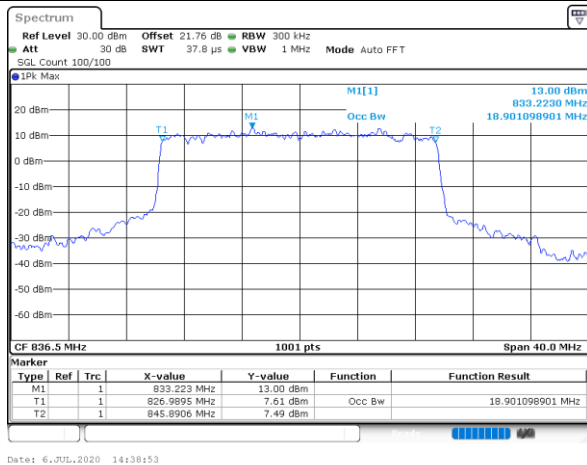


## 16QAM

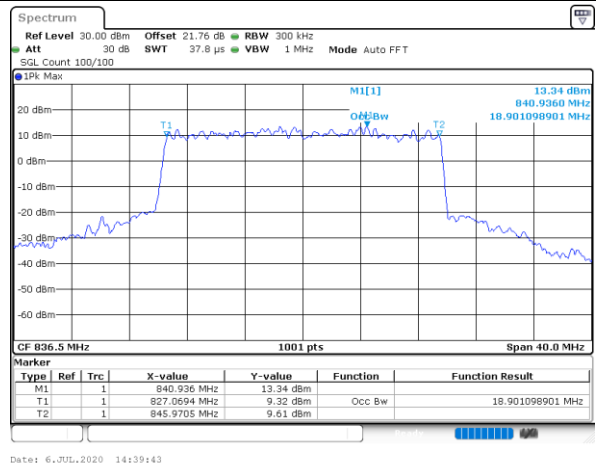
## Lowest Channel



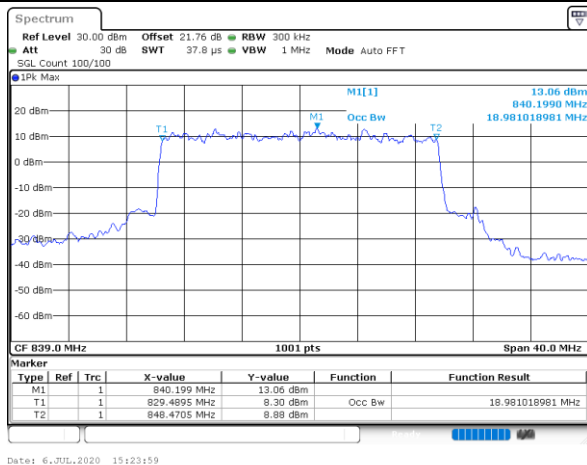
## Middle Channel



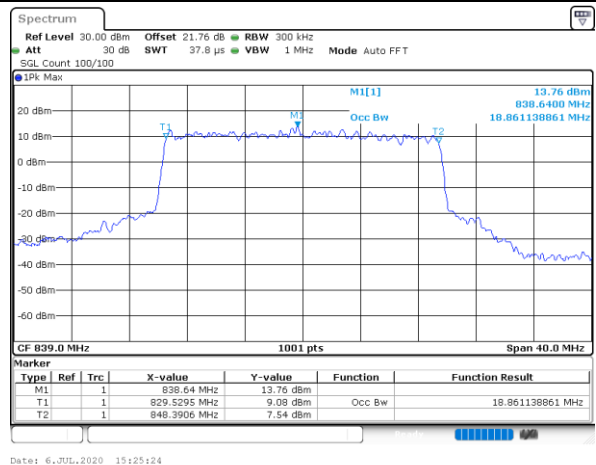
## Middle Channel



## Highest Channel



## Highest Channel

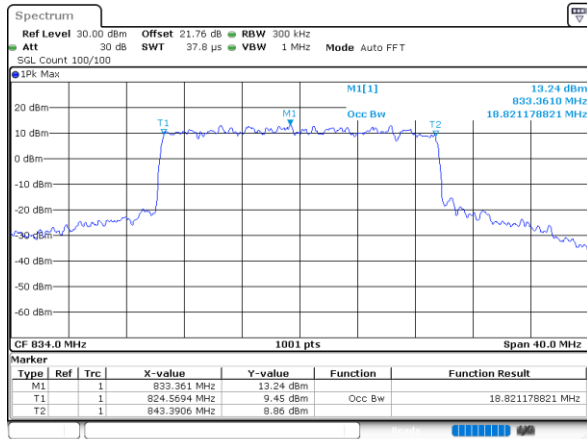




## FR1 n5 / 20MHz / CP OFDM

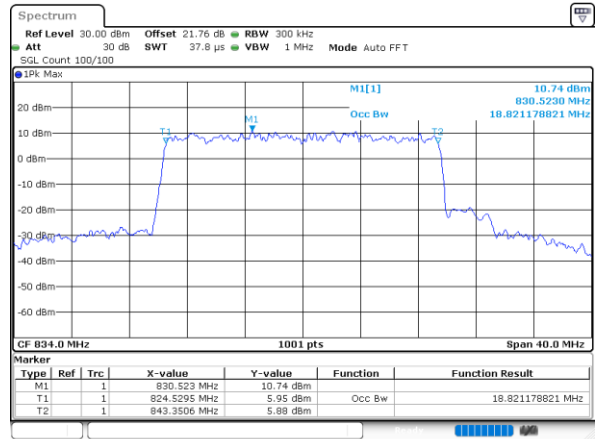
## 64QAM

## Lowest Channel

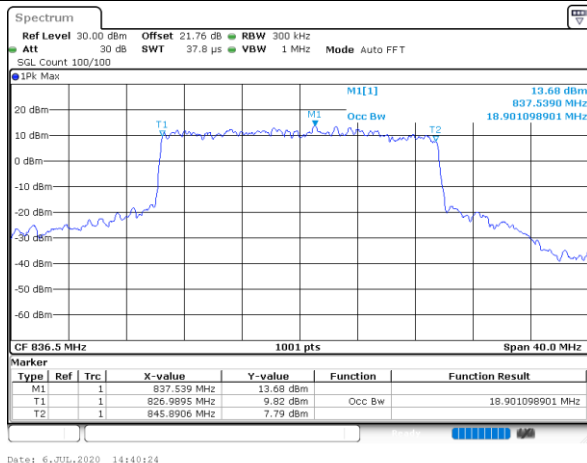


## 256QAM

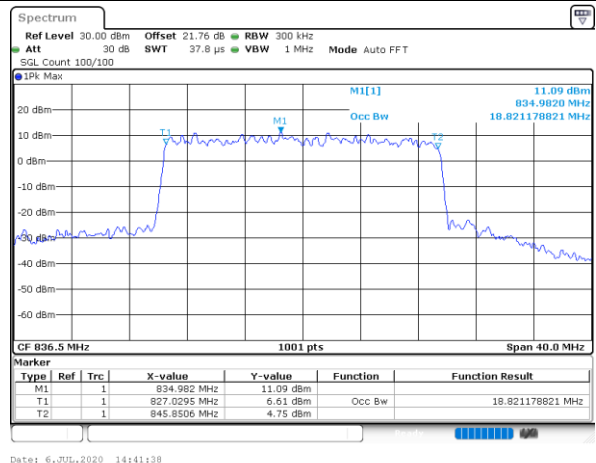
## Lowest Channel



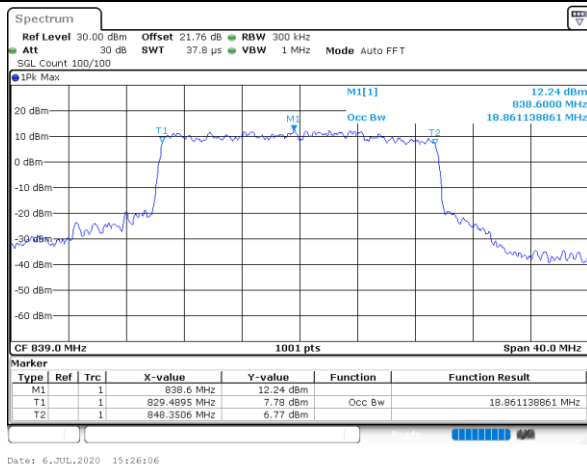
## Middle Channel



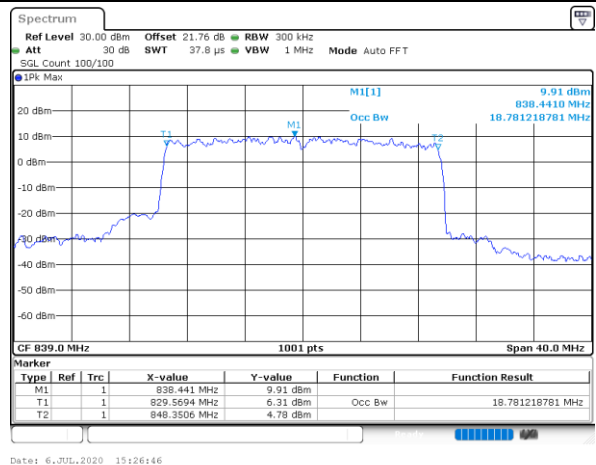
## Middle Channel

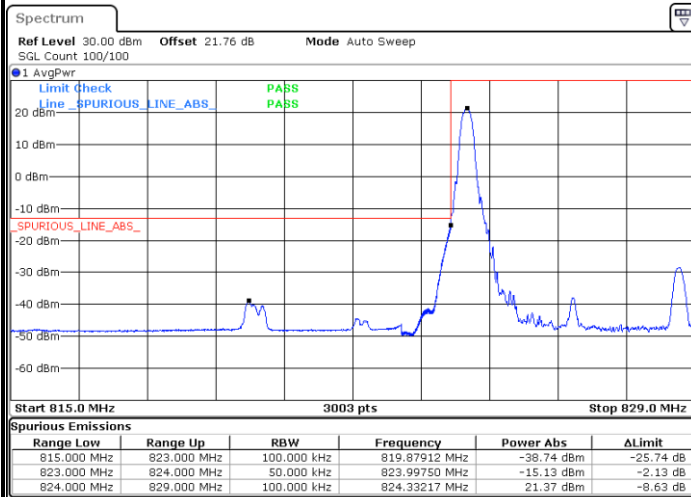
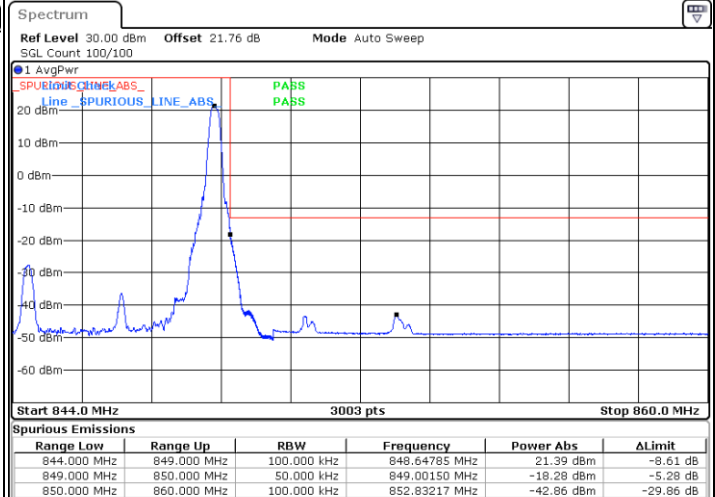
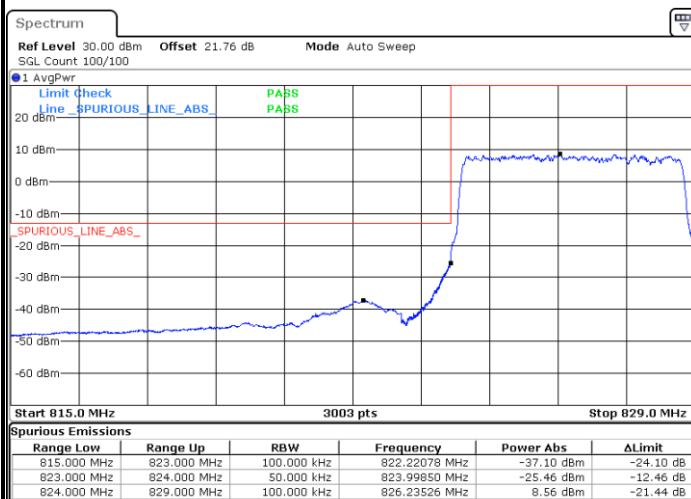
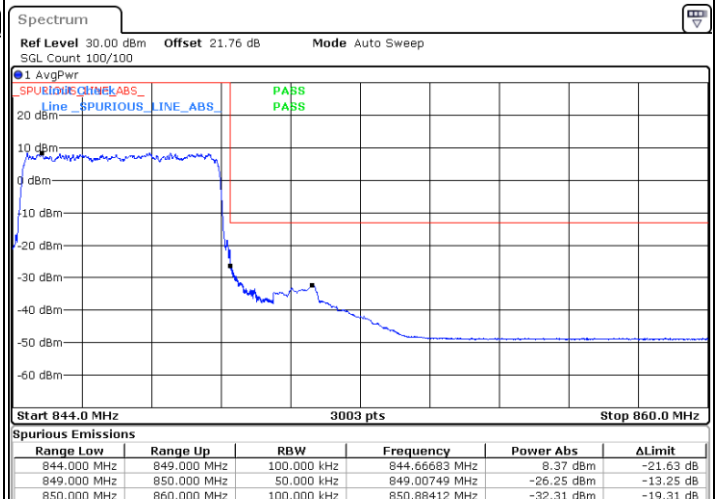


## Highest Channel



## Highest Channel



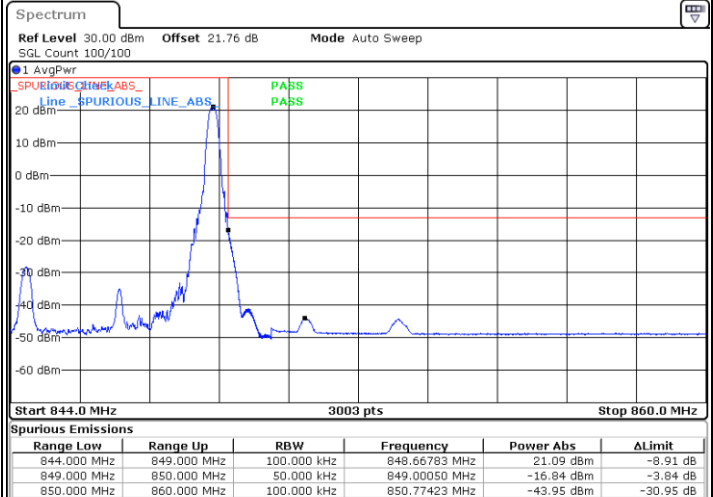
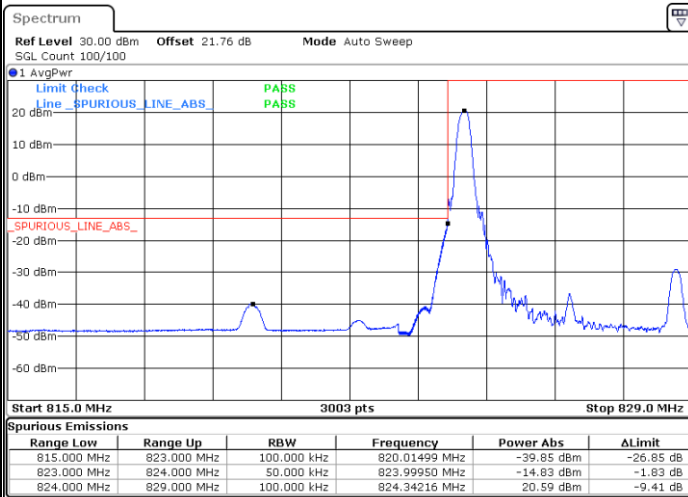
**Conducted Band Edge****FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



## FR1 n5 / 5MHz / DFT-S OFDM / QPSK

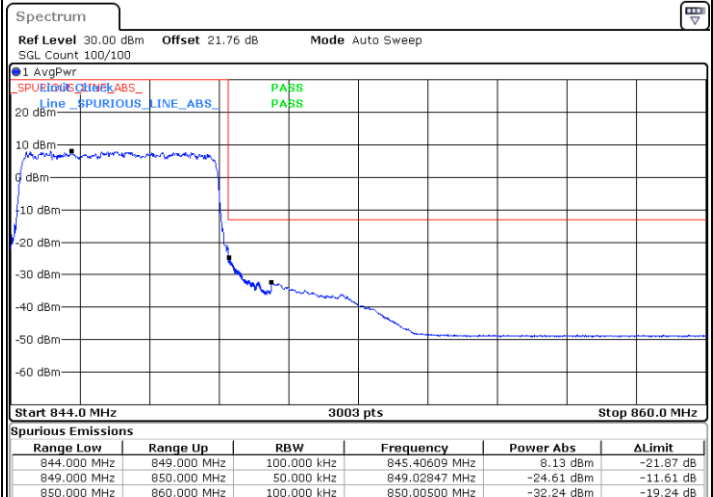
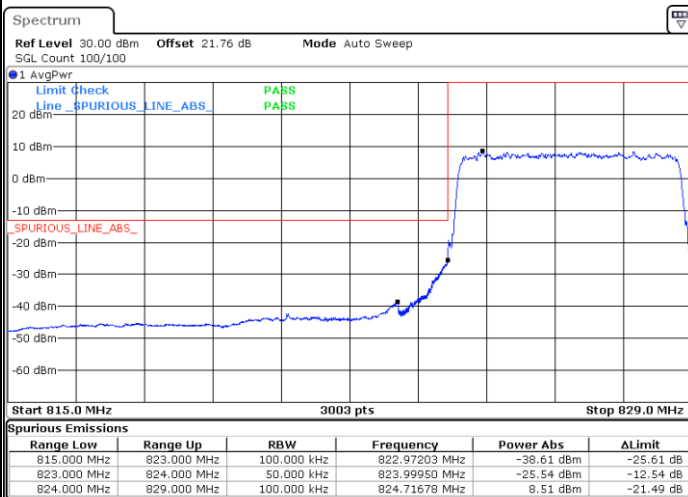
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

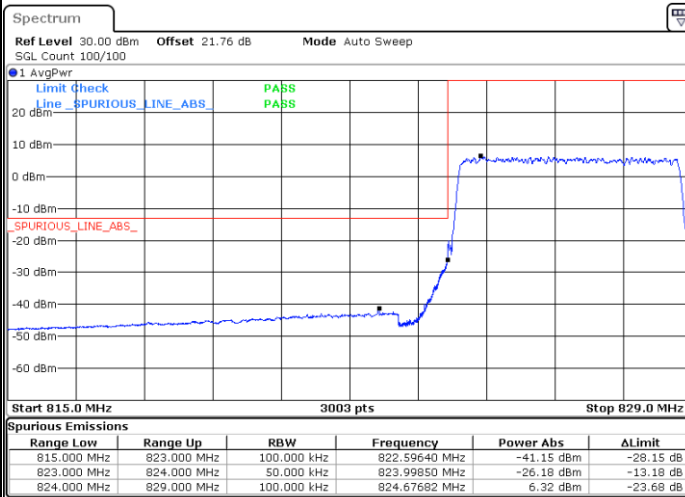




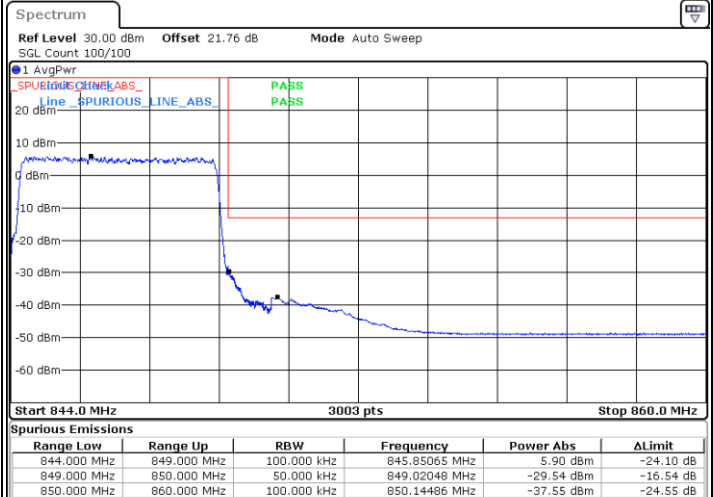
## FR1 n5 / 5MHz / CP OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 2.JUL.2020 15:39:26



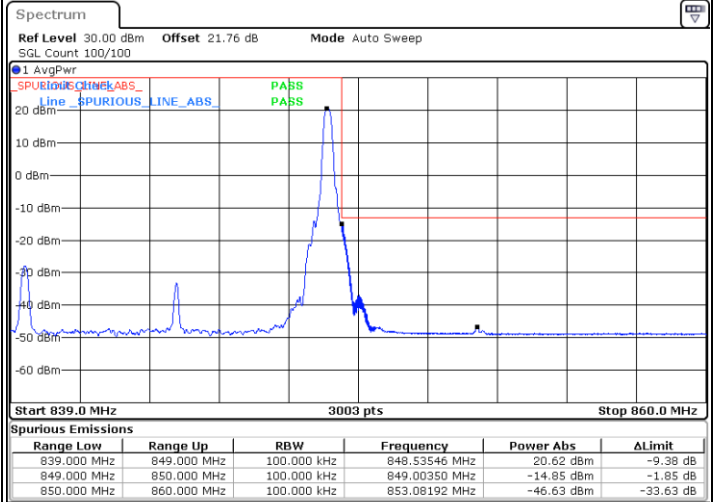
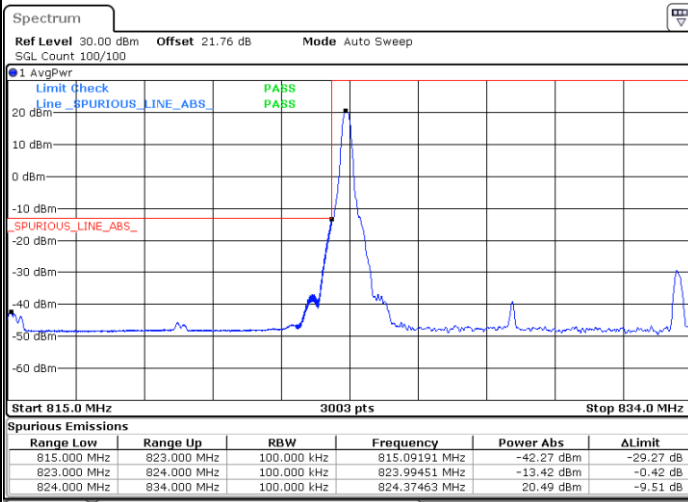
Date: 4.JUL.2020 11:54:39



## FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK

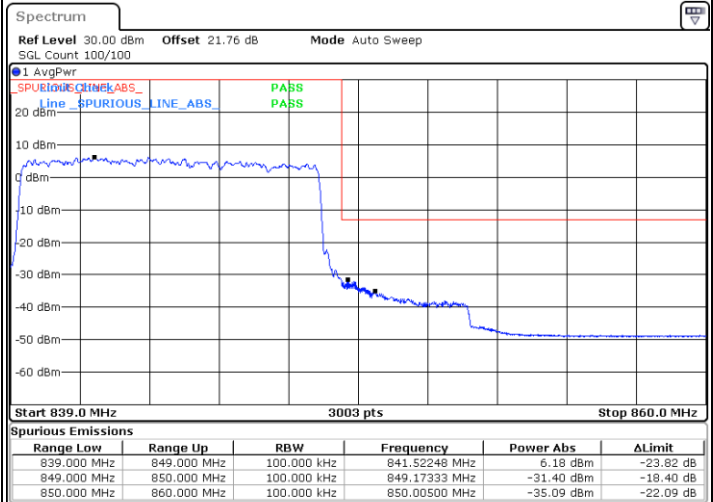
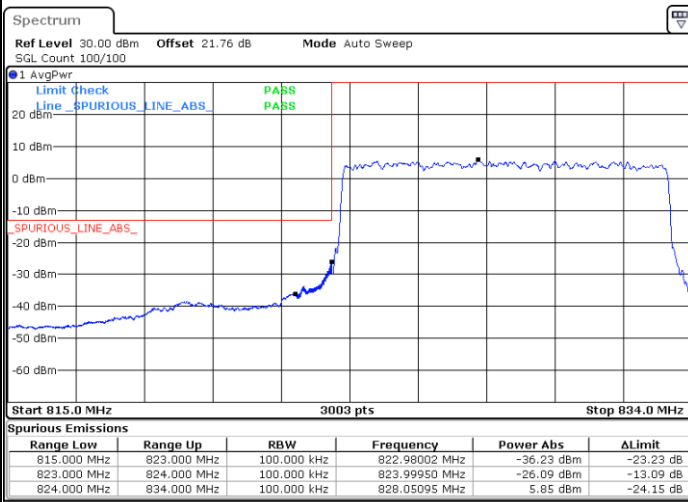
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

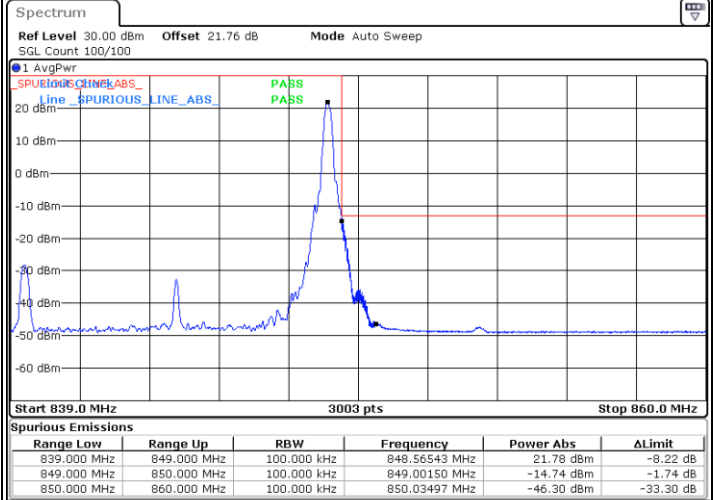
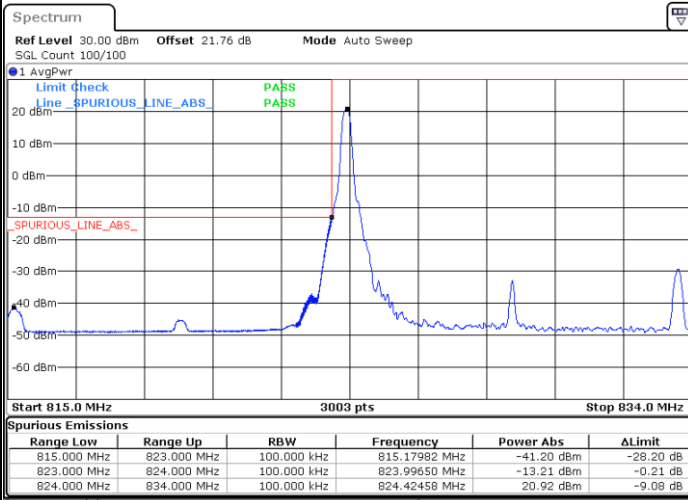




## FR1 n5 / 10MHz / DFT-s-OFDM / QPSK

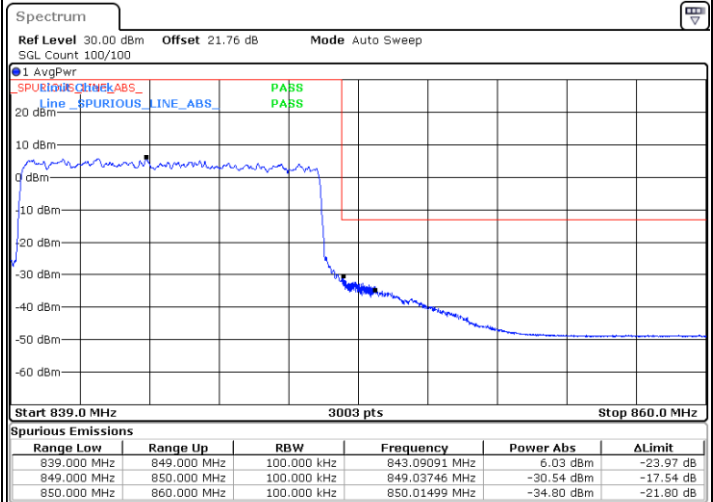
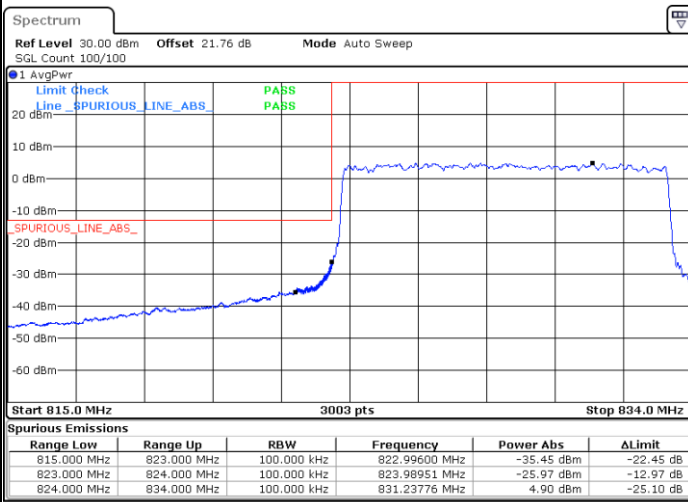
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

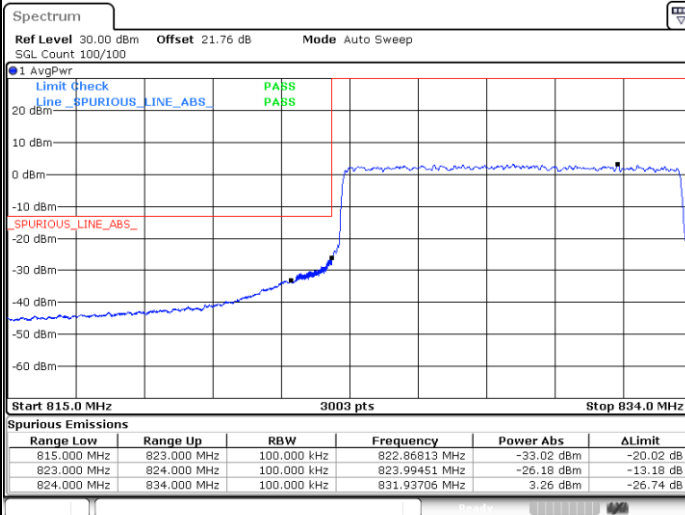




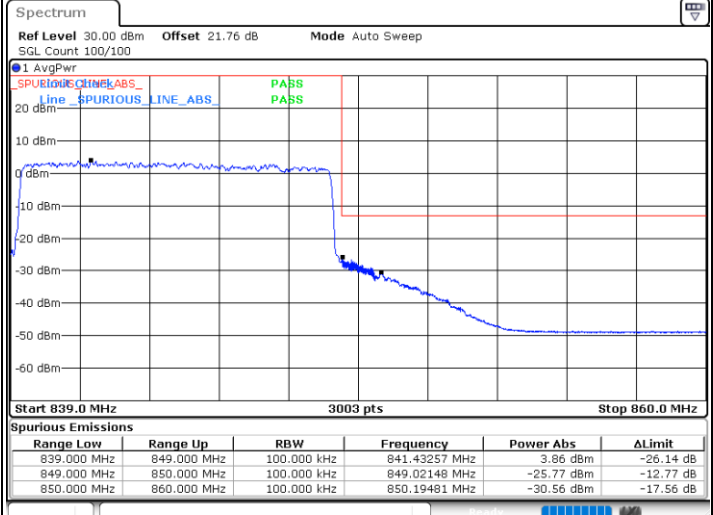
## FR1 n5 / 10MHz / CP OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 2.JUL.2020 15:59:15



Date: 4.JUL.2020 12:33:39