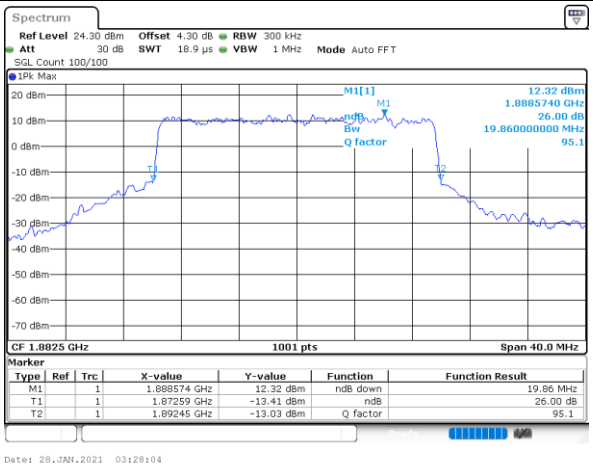
## FR1 n25+12A / 20MHz / CP-OFDM

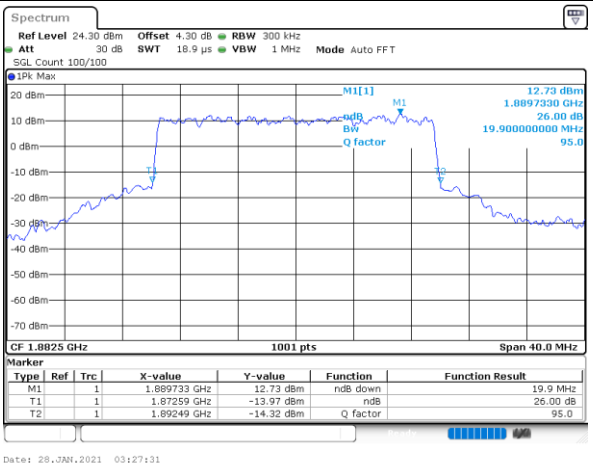
### QPSK

#### Middle Channel



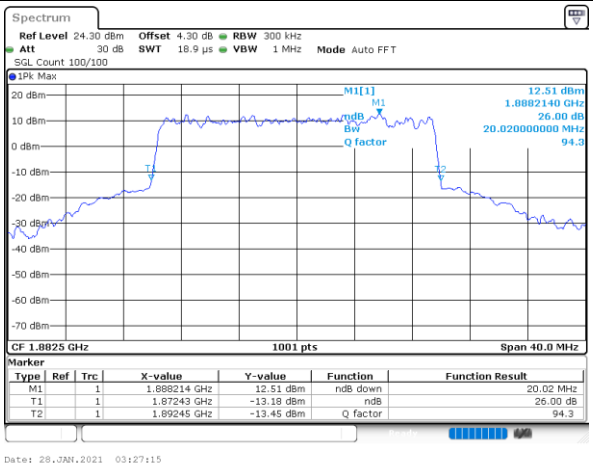

### 16QAM

#### Middle Channel



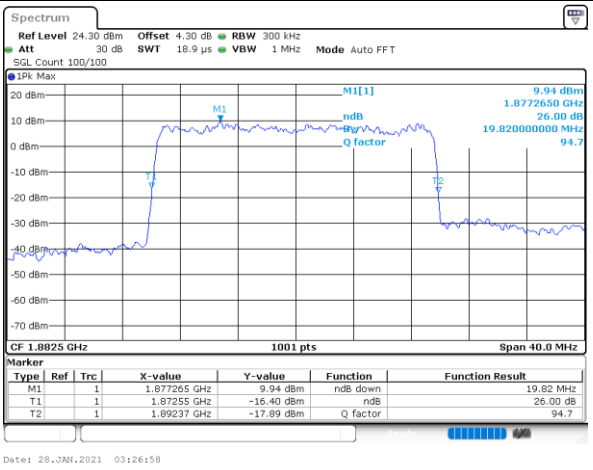

### 64QAM

#### Middle Channel




### 256QAM

#### Middle Channel



# Occupied Bandwidth

| Mode | FR1 n25+12A : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 5MHz | 5MHz | 5MHz | 5MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 4.50 | 4.51 | 4.49 | 4.51 |

| Mode | FR1 n25+12A : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 10MHz | 10MHz | 10MHz | 10MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 9.29 | 9.29 | 9.31 | 9.29 |

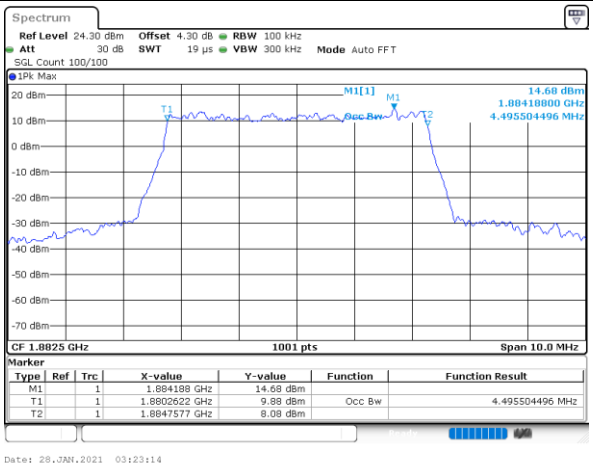
| Mode | FR1 n25+12A : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 15MHz | 15MHz | 15MHz | 15MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 14.18 | 14.18 | 14.15 | 14.15 |

| Mode | FR1 n25+12A : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 20MHz | 20MHz | 20MHz | 20MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 18.98 | 18.94 | 18.98 | 18.98 |

## FR1 n25+12A / 5MHz / CP-OFDM

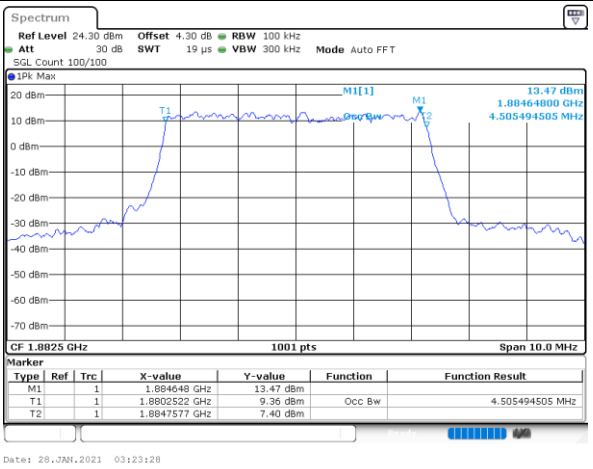
### QPSK

#### Middle Channel



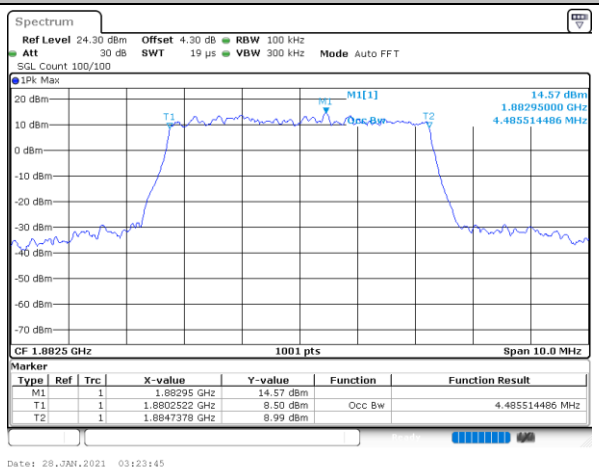

### 16QAM

#### Middle Channel



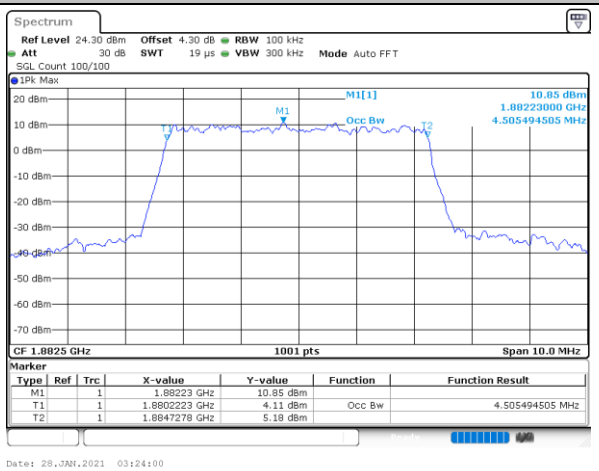

### 64QAM

#### Middle Channel




### 256QAM

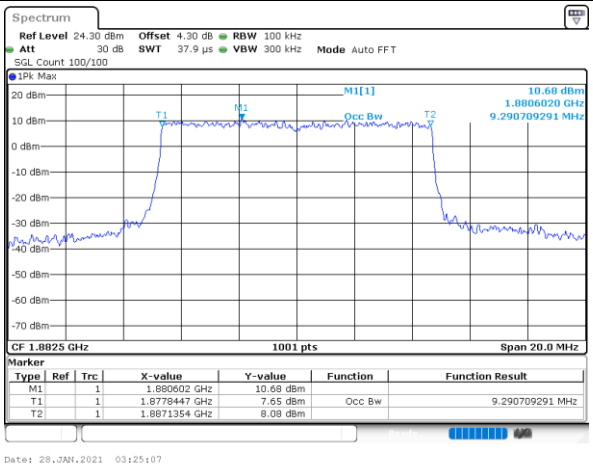
#### Middle Channel



## FR1 n25+12A / 10MHz / CP-OFDM

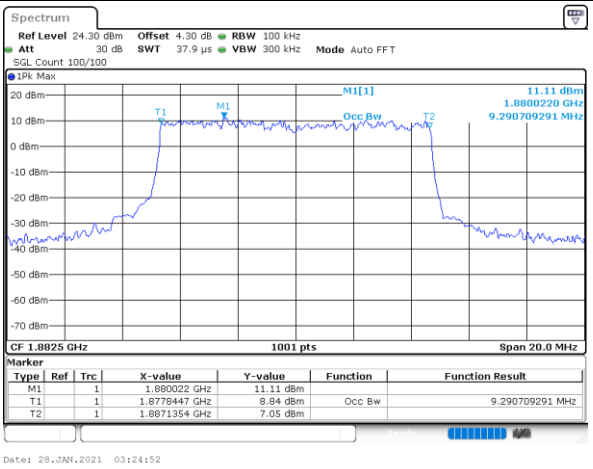
### QPSK

#### Middle Channel



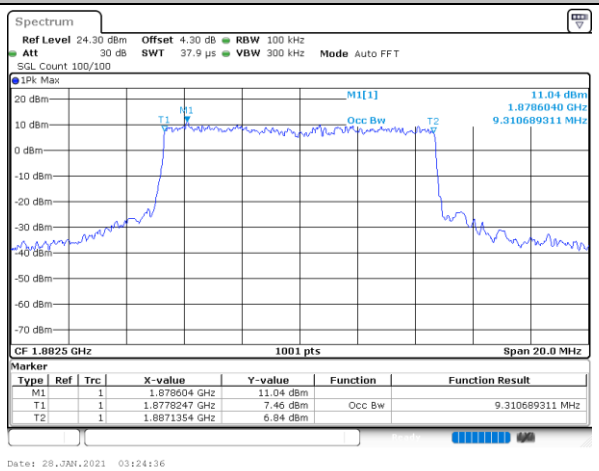

### 16QAM

#### Middle Channel



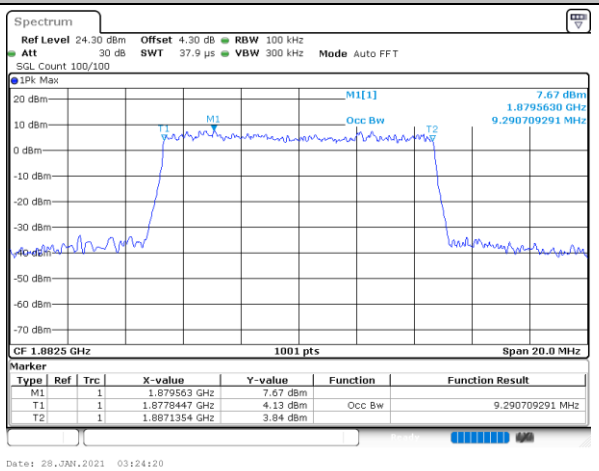

### 64QAM

#### Middle Channel




### 256QAM

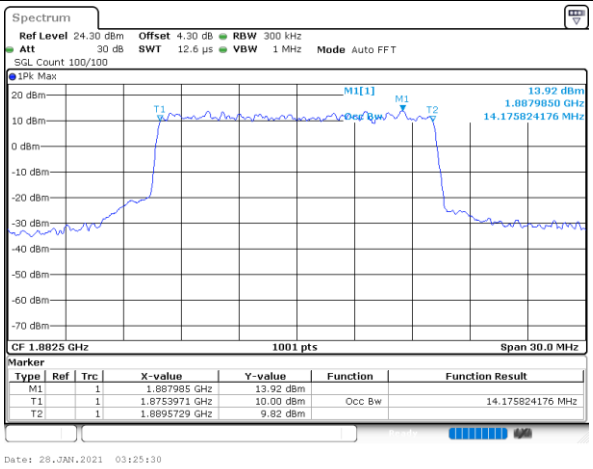
#### Middle Channel



## FR1 n25+12A / 15MHz / CP-OFDM

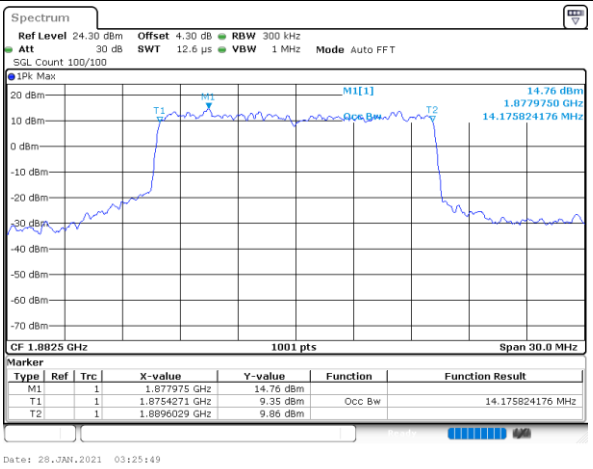
### QPSK

#### Middle Channel



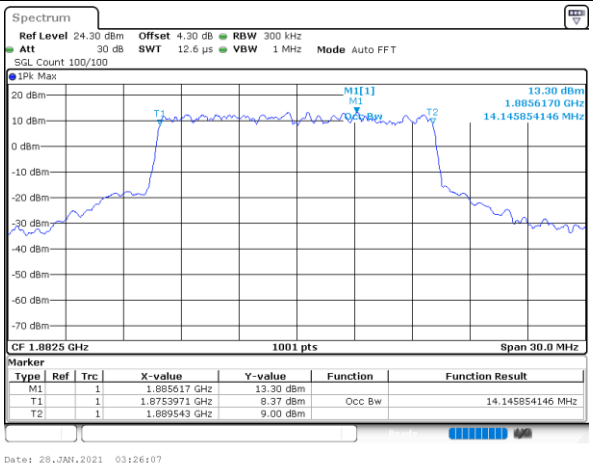

### 16QAM

#### Middle Channel



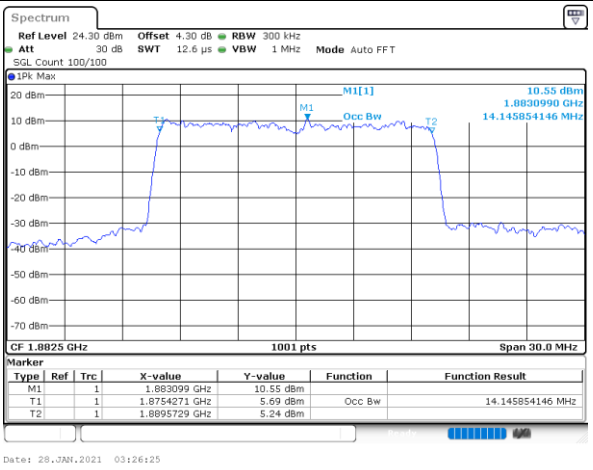

### 64QAM

#### Middle Channel




### 256QAM

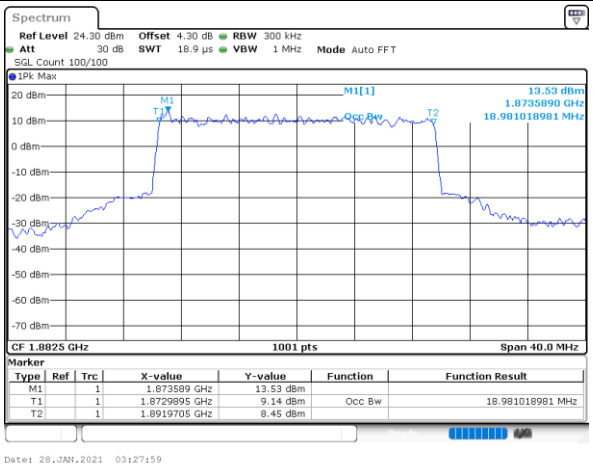
#### Middle Channel



## FR1 n25+12A / 20MHz / CP-OFDM

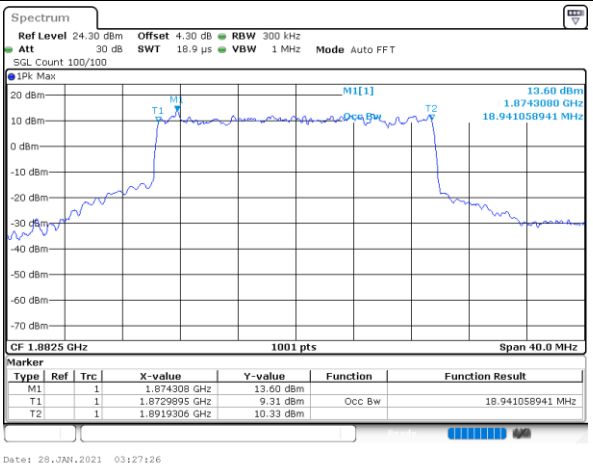
### QPSK

#### Middle Channel



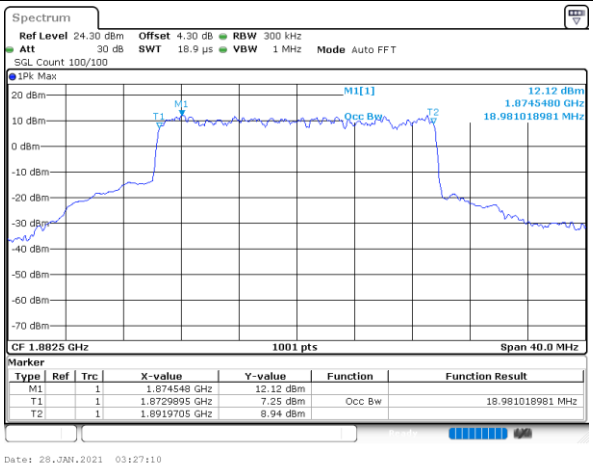

### 16QAM

#### Middle Channel



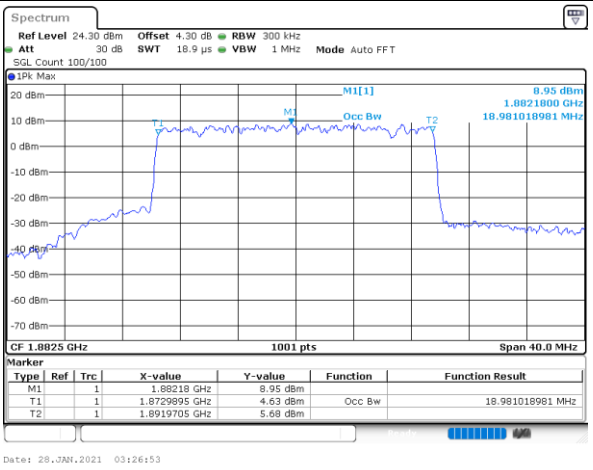

### 64QAM

#### Middle Channel




### 256QAM

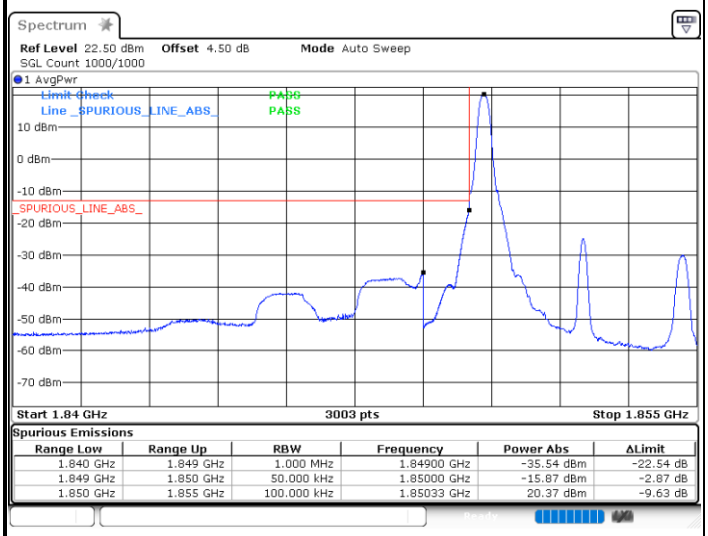
#### Middle Channel



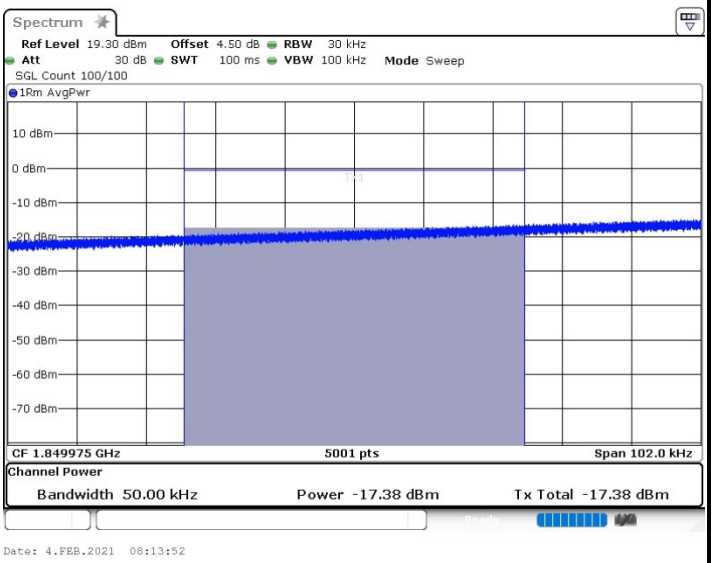
# Conducted Band Edge

## FR1 n25+12A / 5MHz / DFT-S OFDM BPSK

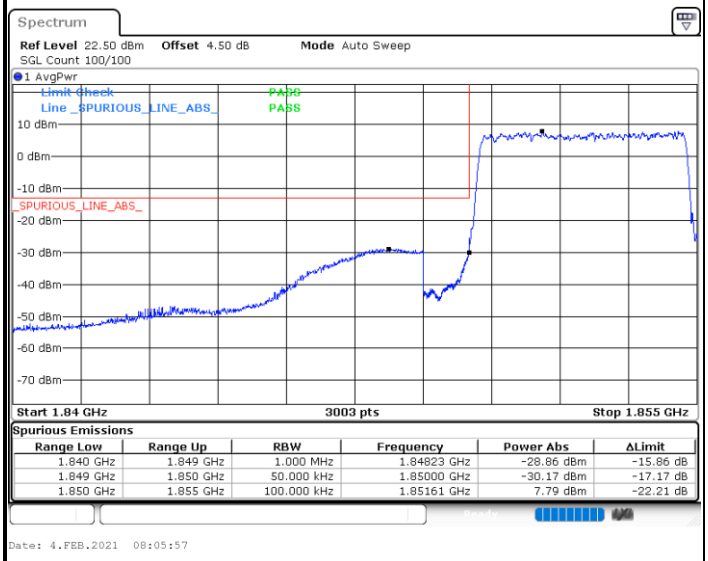
### Lowest Band Edge / 1 RB




### Channel Power < -13dBm Pass

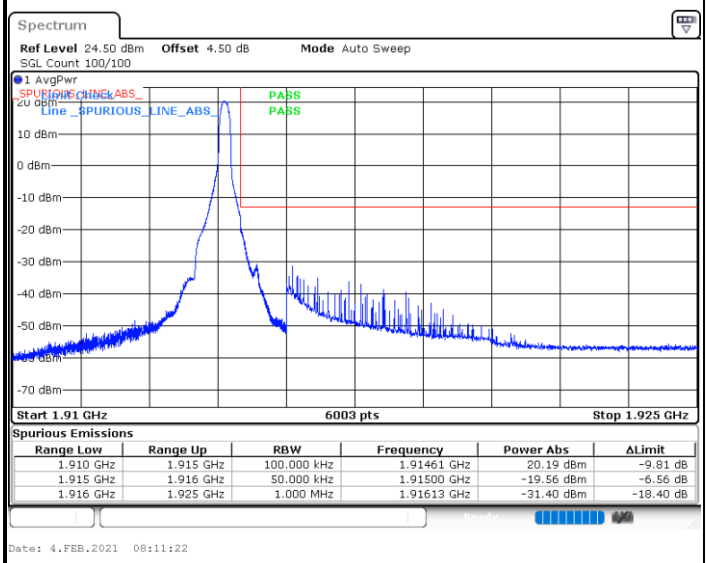
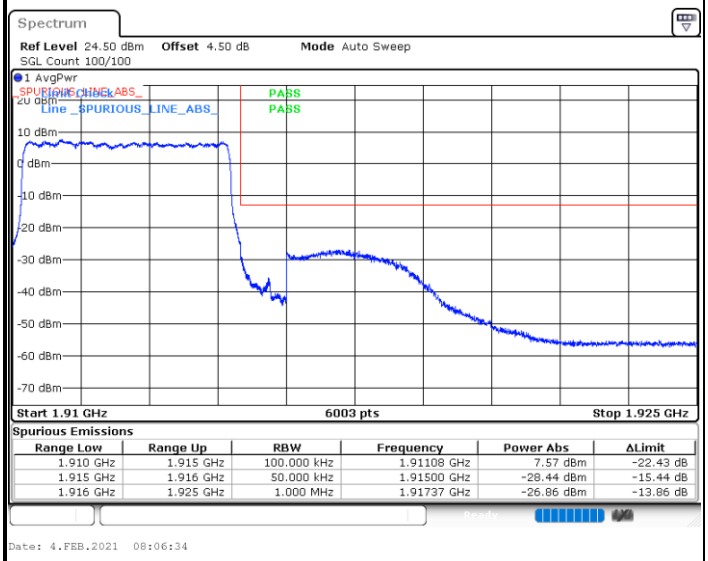


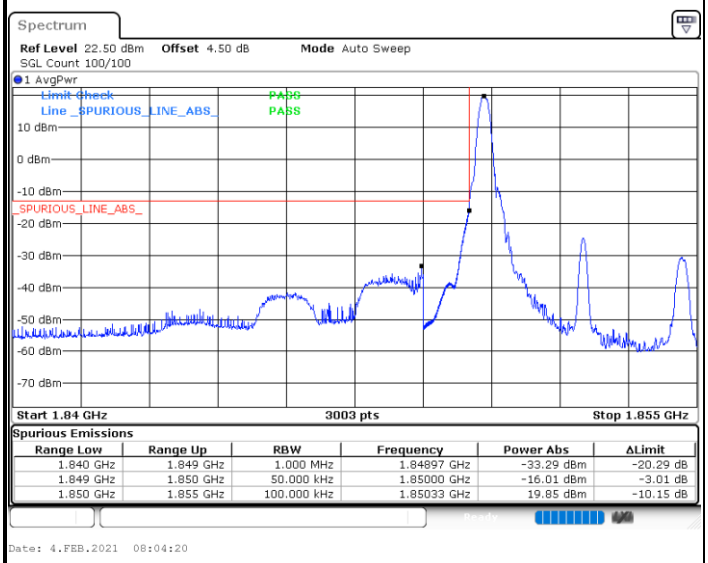
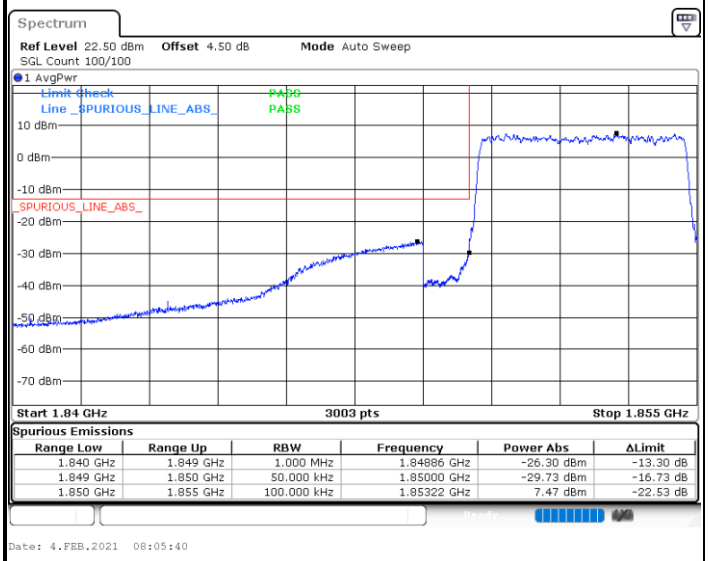

### Lowest Band Edge / Full RB

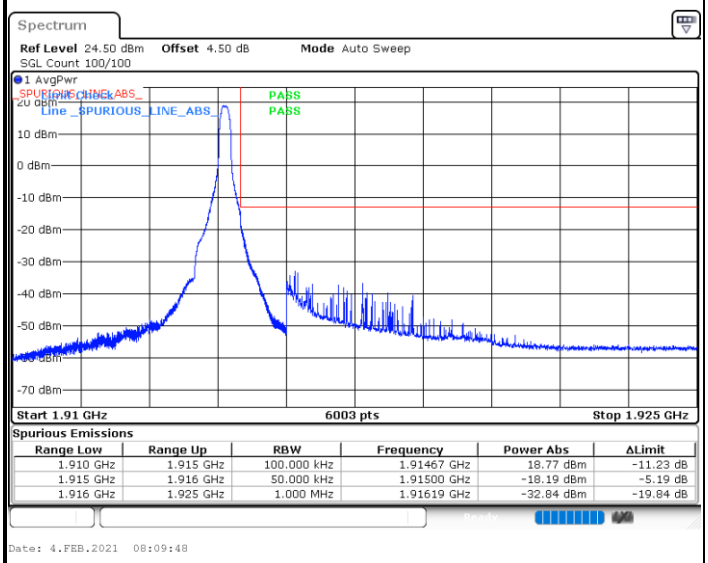
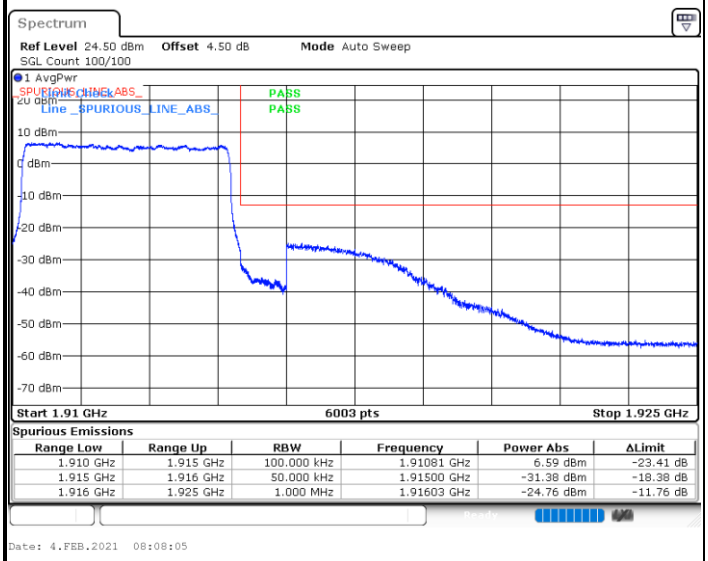



### Channel Power < -13dBm Pass

/

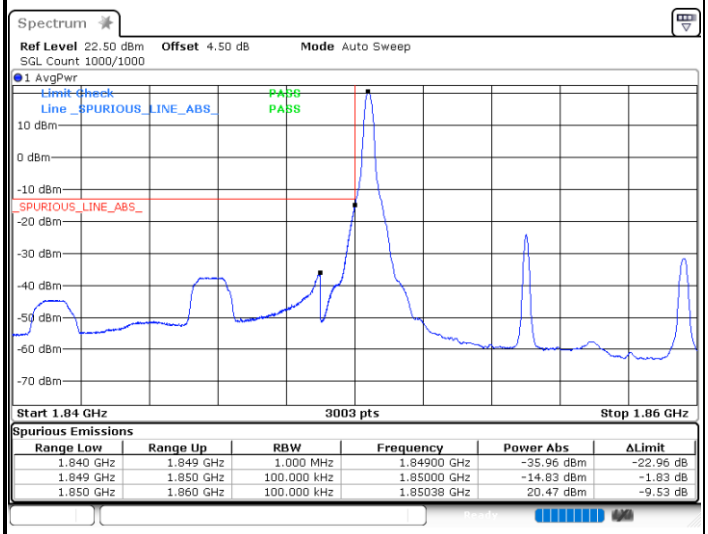
| FR1 n25+12A / 5MHz / DFT-S OFDM BPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25+12A / 5MHz / DFT-S OFDM QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Lowest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25+12A / 5MHz / DFT-S OFDM QPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

## FR1 n25+12A / 10MHz / DFT-S OFDM BPSK

### Lowest Band Edge / 1 RB

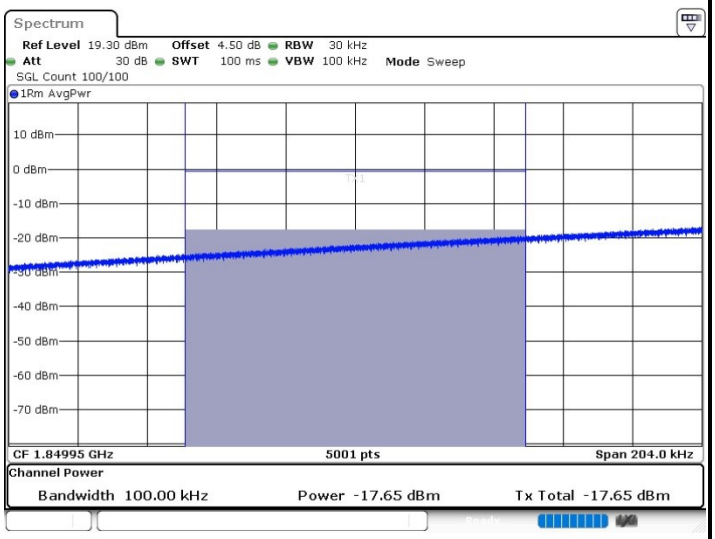



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.840 GHz | 1.849 GHz | 1.000 MHz | 1.84900 GHz | -35.96 dBm | -22.96 dB |
| 1.849 GHz | 1.850 GHz | 100.000 kHz | 1.85000 GHz | -14.83 dBm | -1.83 dB |
| 1.850 GHz | 1.860 GHz | 100.000 kHz | 1.85038 GHz | 20.47 dBm | -9.53 dB |

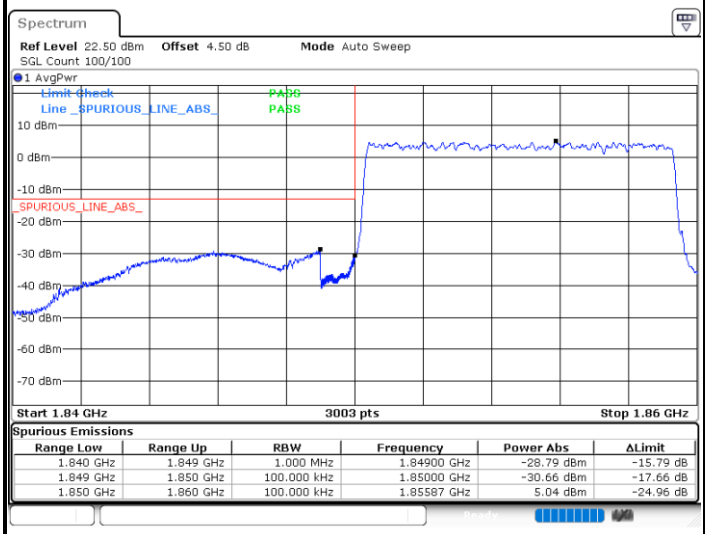
Date: 4.FEB.2021 07:47:11

### Channel Power < -13dBm Pass




Date: 4.FEB.2021 07:48:12

### Lowest Band Edge / Full RB



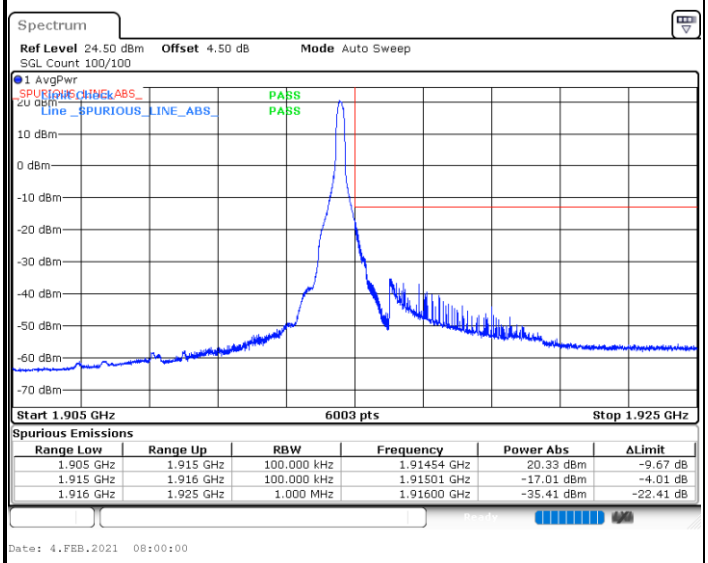
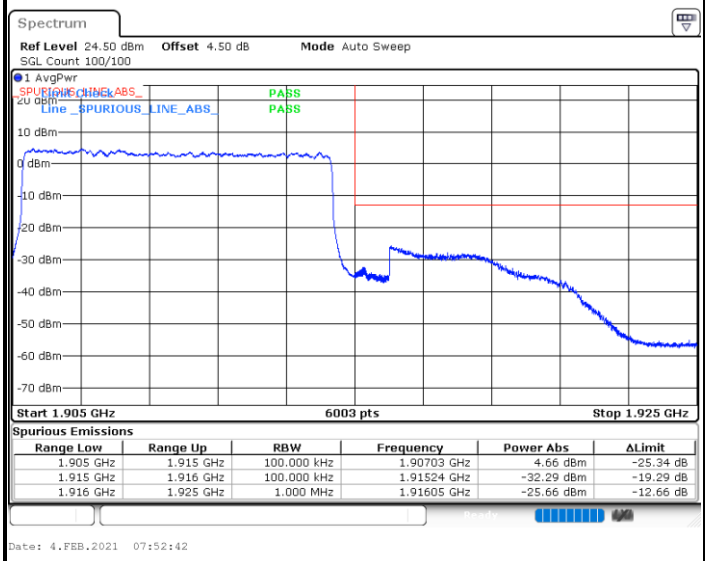

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.840 GHz | 1.849 GHz | 1.000 MHz | 1.84900 GHz | -28.79 dBm | -15.79 dB |
| 1.849 GHz | 1.850 GHz | 100.000 kHz | 1.85000 GHz | -30.66 dBm | -17.66 dB |
| 1.850 GHz | 1.860 GHz | 100.000 kHz | 1.85587 GHz | 5.04 dBm | -24.96 dB |

Date: 4.FEB.2021 07:50:52

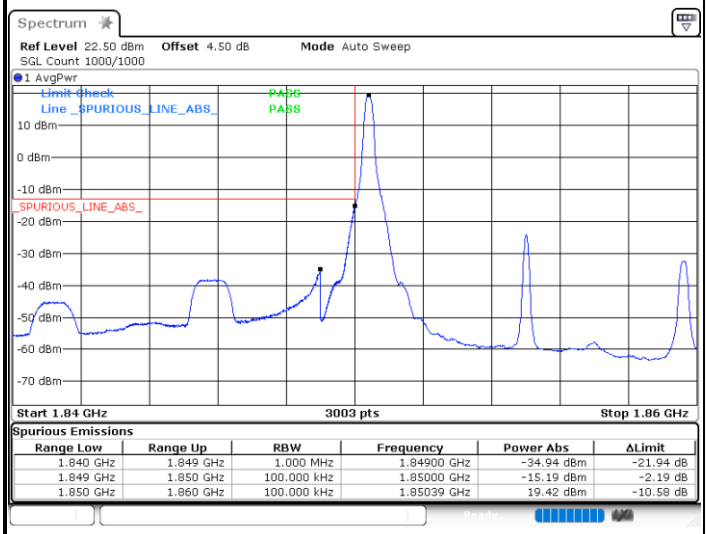
### Channel Power < -13dBm Pass

/

| FR1 n25+12A / 10MHz / DFT-S OFDM BPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

## FR1 n25+12A / 10MHz / DFT-S OFDM QPSK

### Lowest Band Edge / 1 RB

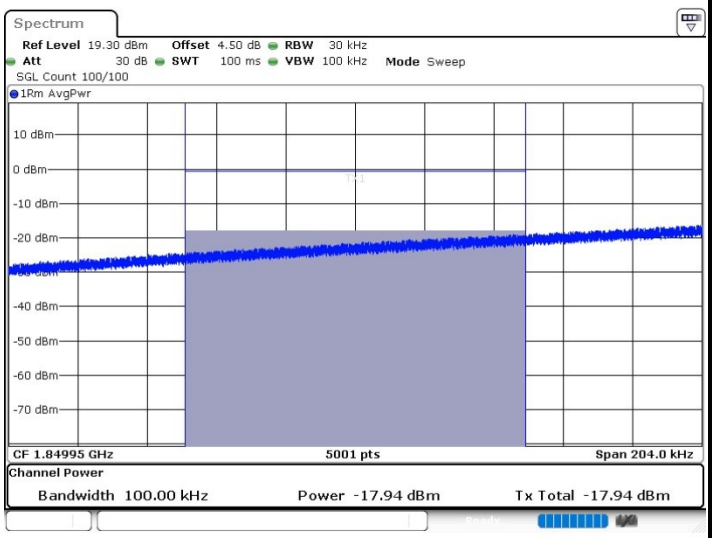



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.840 GHz | 1.849 GHz | 1.000 MHz | 1.84900 GHz | -34.94 dBm | -21.94 dB |
| 1.849 GHz | 1.850 GHz | 100.000 kHz | 1.85000 GHz | -15.19 dBm | -2.19 dB |
| 1.850 GHz | 1.860 GHz | 100.000 kHz | 1.85039 GHz | 19.42 dBm | -10.58 dB |

Date: 4.FEB.2021 07:49:17

### Channel Power < -13dBm Pass

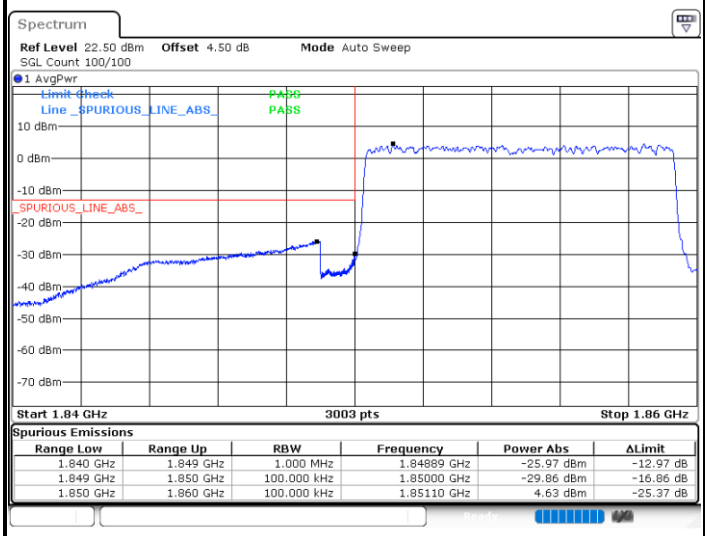



Channel Power

Bandwidth 100.00 kHz Power -17.94 dBm Tx Total -17.94 dBm

Date: 4.FEB.2021 07:49:56

### Lowest Band Edge / Full RB



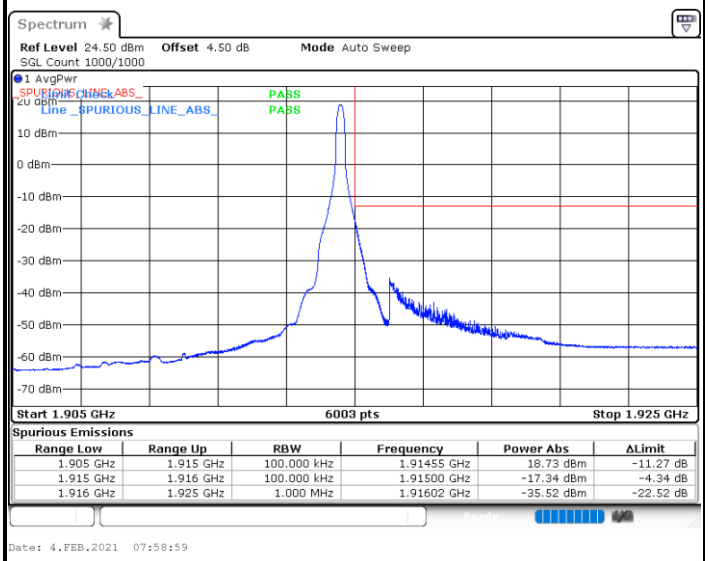
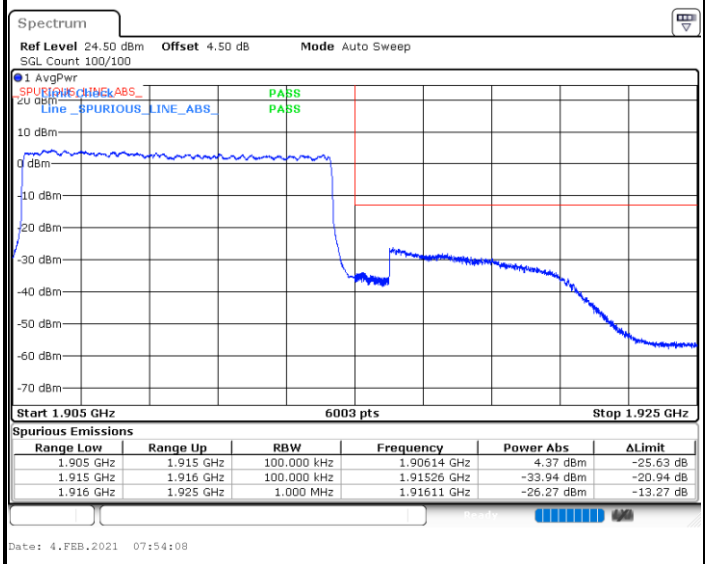

Spurious Emissions

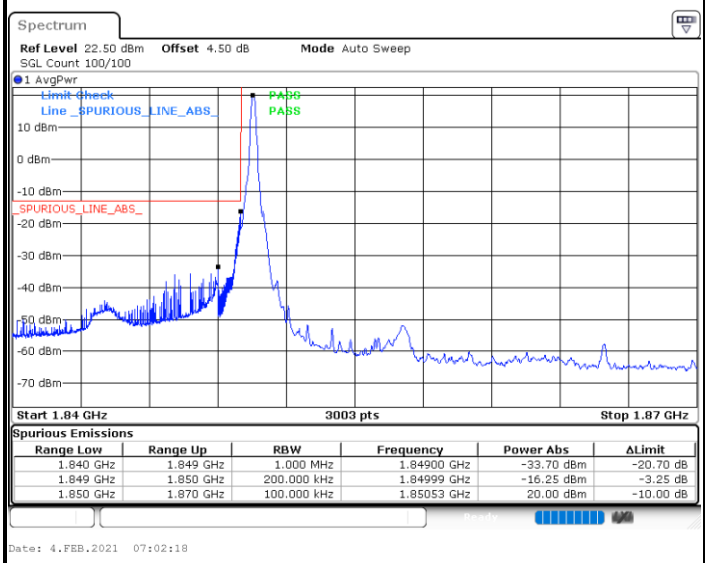
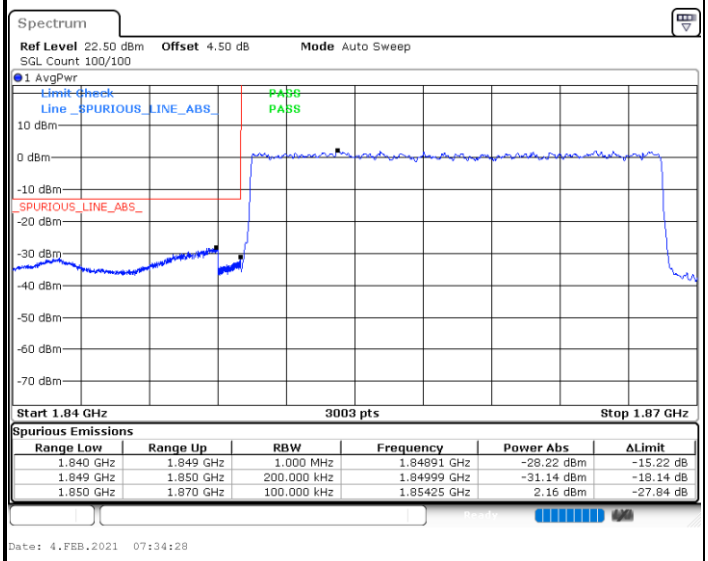
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.840 GHz | 1.849 GHz | 1.000 MHz | 1.84889 GHz | -25.97 dBm | -12.97 dB |
| 1.849 GHz | 1.850 GHz | 100.000 kHz | 1.85000 GHz | -29.86 dBm | -16.86 dB |
| 1.850 GHz | 1.860 GHz | 100.000 kHz | 1.85110 GHz | 4.63 dBm | -25.37 dB |

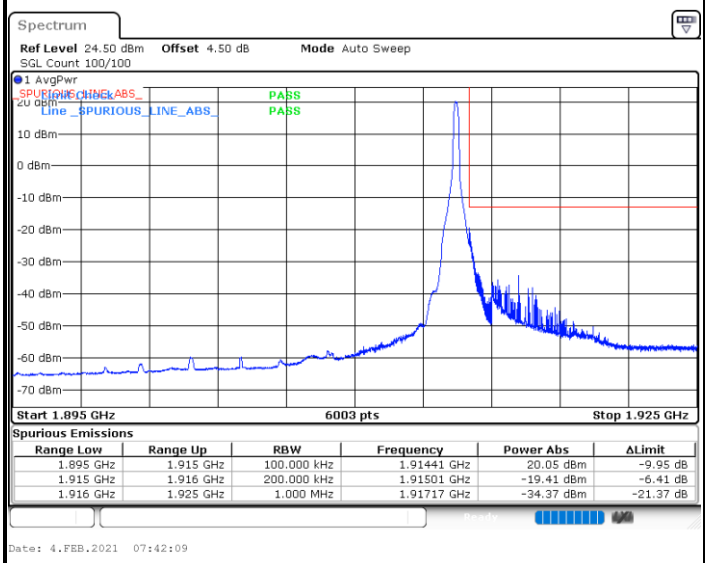
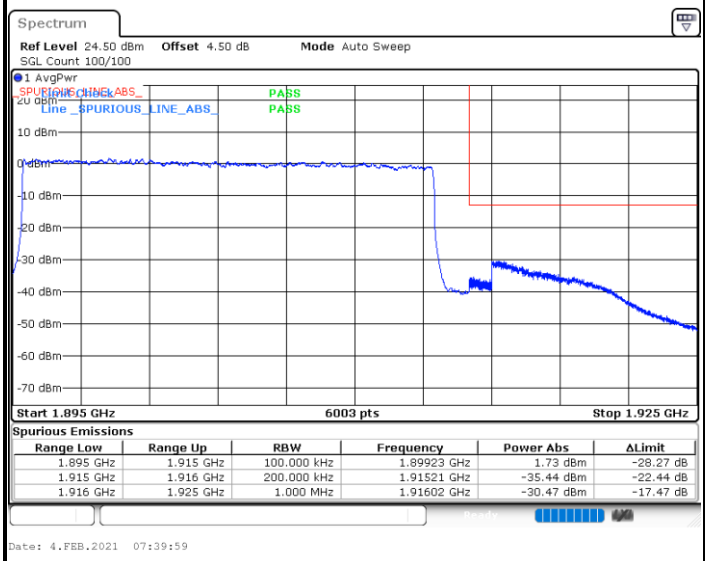
Date: 4.FEB.2021 07:50:14

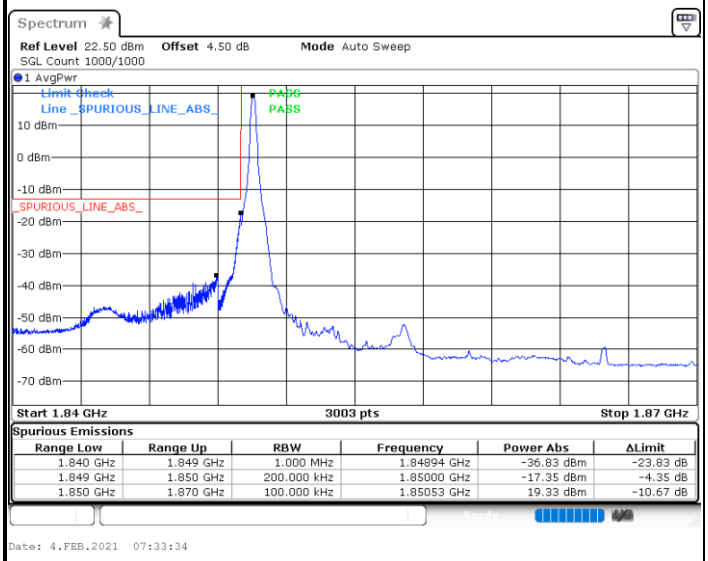
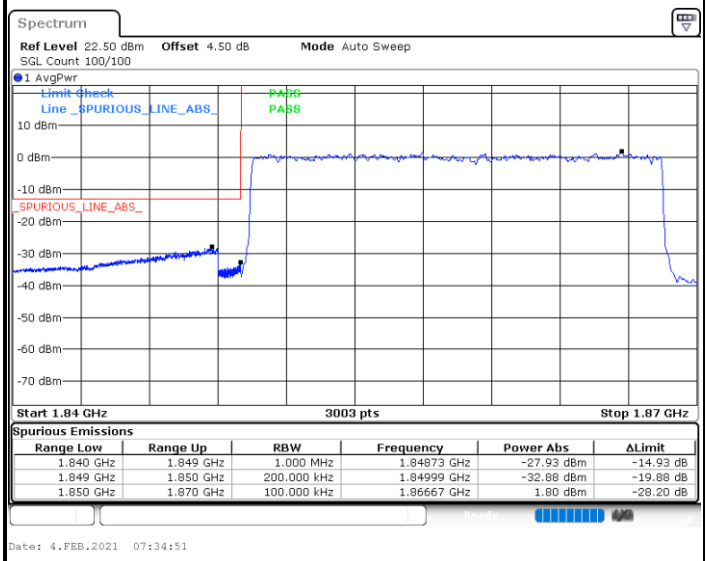
### Channel Power < -13dBm Pass

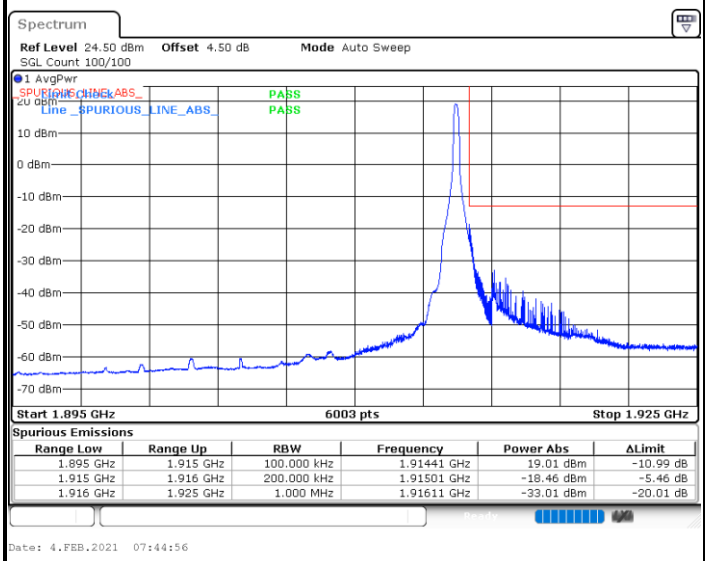
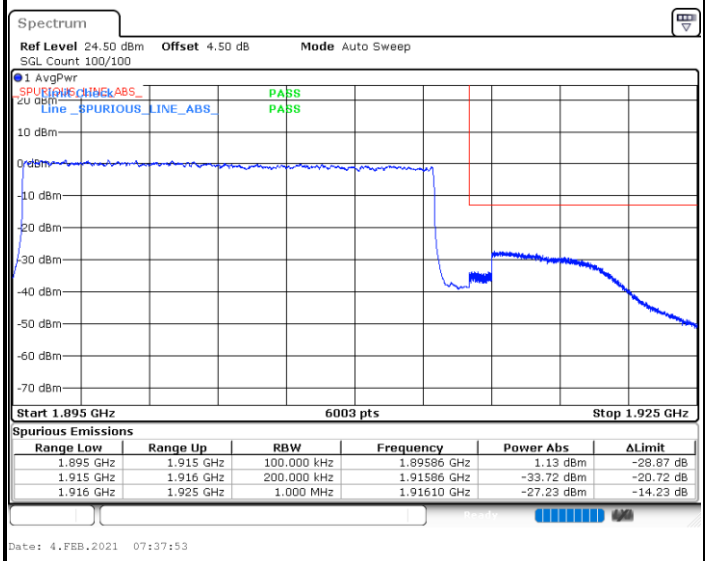
/

| FR1 n25+12A / 10MHz / DFT-S OFDM QPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25+12A / 20MHz / DFT-S OFDM BPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Lowest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25+12A / 20MHz / DFT-S OFDM BPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

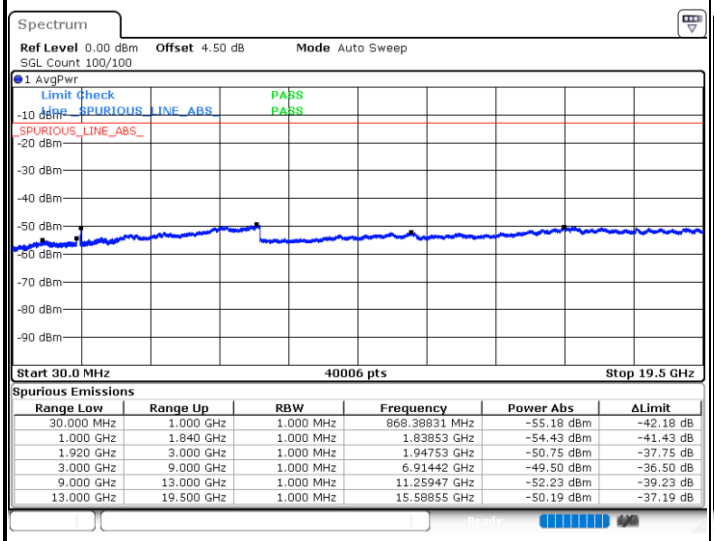
| FR1 n25+12A / 20MHz / DFT-S OFDM QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Lowest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25+12A / 20MHz / DFT-S OFDM QPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

# Conducted Spurious Emission

## FR1 n25+12A / 5MHz / DFT-S OFDM / BPSK

### Lowest Channel / 1RB

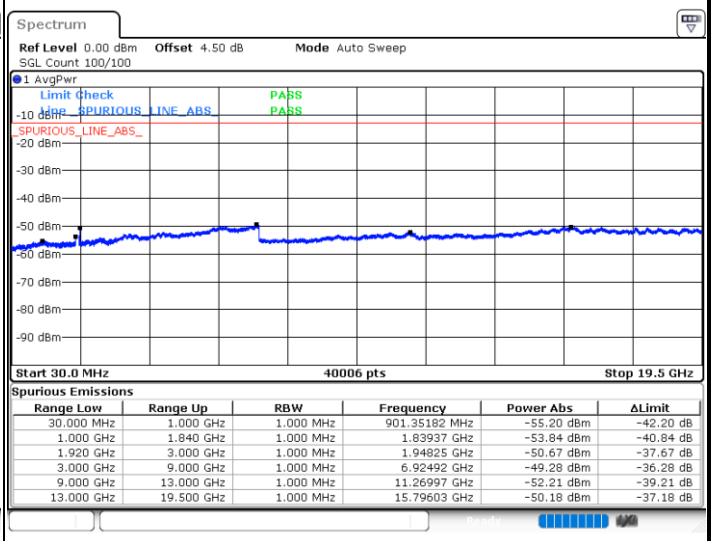



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 868.38831 MHz | -55.18 dBm | -42.18 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -54.43 dBm | -41.43 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94753 GHz | -50.75 dBm | -37.75 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.91442 GHz | -49.50 dBm | -36.50 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.25947 GHz | -52.23 dBm | -39.23 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.58855 GHz | -50.19 dBm | -37.19 dB |

Date: 4.FEB.2021 06:54:56

### Middle Channel / 1RB

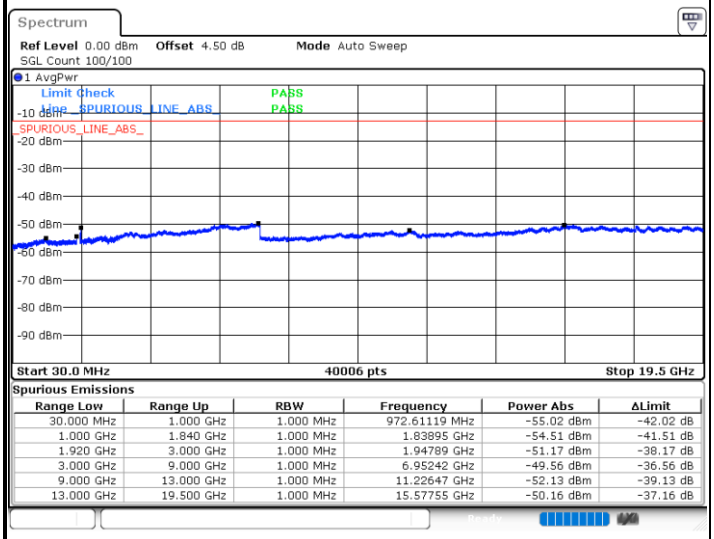



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 901.35182 MHz | -55.20 dBm | -42.20 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83937 GHz | -53.84 dBm | -40.84 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94825 GHz | -50.67 dBm | -37.67 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.92492 GHz | -49.28 dBm | -36.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.26997 GHz | -52.21 dBm | -39.21 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.79603 GHz | -50.18 dBm | -37.18 dB |

Date: 4.FEB.2021 06:57:14

### Highest Channel / 1RB



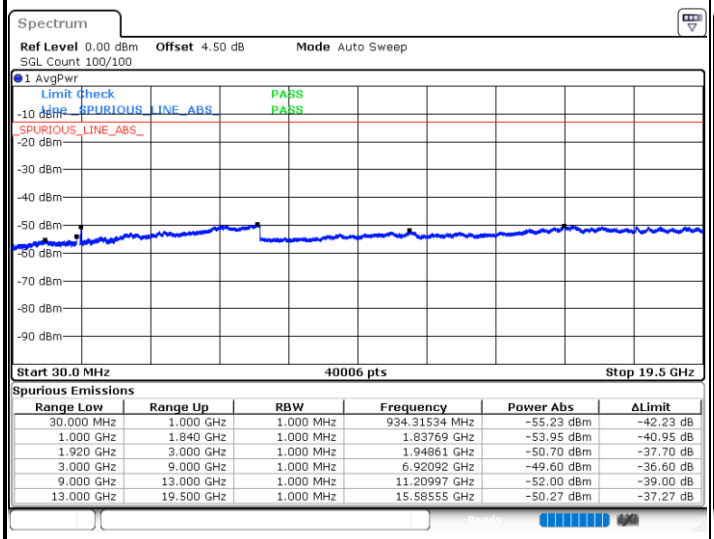

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 972.61119 MHz | -55.02 dBm | -42.02 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83895 GHz | -54.51 dBm | -41.51 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94789 GHz | -51.17 dBm | -38.17 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.95242 GHz | -49.56 dBm | -36.56 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.22647 GHz | -52.13 dBm | -39.13 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.57755 GHz | -50.16 dBm | -37.16 dB |

Date: 4.FEB.2021 06:59:45

## FR1 n25+12A / 5MHz / DFT-S OFDM / QPSK

### Lowest Channel / 1RB

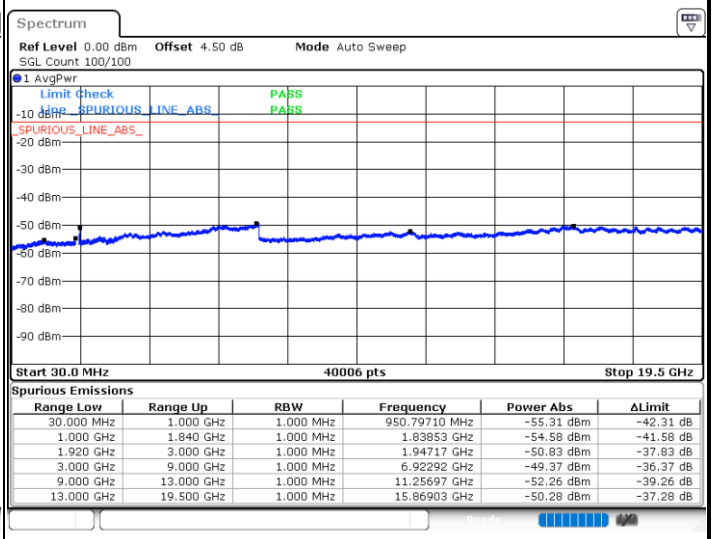



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 934.31534 MHz | -55.23 dBm | -42.23 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83769 GHz | -53.95 dBm | -40.95 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94861 GHz | -50.70 dBm | -37.70 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.92092 GHz | -49.60 dBm | -36.60 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20997 GHz | -52.00 dBm | -39.00 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.58555 GHz | -50.27 dBm | -37.27 dB |

Date: 4.FEB.2021 06:55:58

### Middle Channel / 1RB

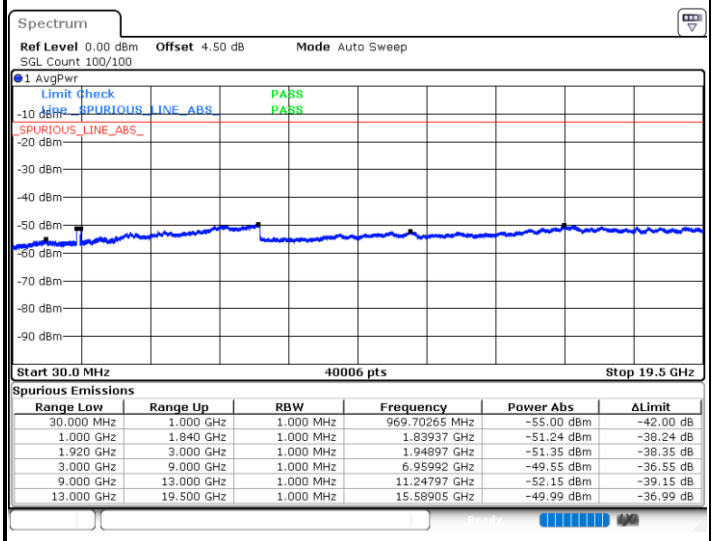



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 950.79710 MHz | -55.31 dBm | -42.31 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -54.58 dBm | -41.58 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94717 GHz | -50.83 dBm | -37.83 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.92292 GHz | -49.37 dBm | -36.37 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.25697 GHz | -52.26 dBm | -39.26 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.86903 GHz | -50.28 dBm | -37.28 dB |

Date: 4.FEB.2021 06:58:51

### Highest Channel / 1RB



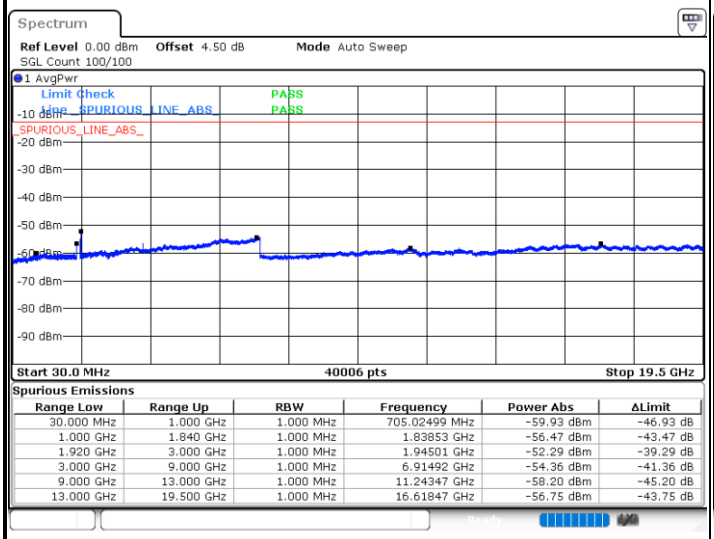

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 969.70265 MHz | -55.00 dBm | -42.00 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83937 GHz | -51.24 dBm | -38.24 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94897 GHz | -51.35 dBm | -38.35 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.95992 GHz | -49.55 dBm | -36.55 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.24797 GHz | -52.15 dBm | -39.15 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.58905 GHz | -49.99 dBm | -36.99 dB |

Date: 4.FEB.2021 07:01:03

## FR1 n25+12A / 10MHz / DFT-S OFDM / BPSK

### Lowest Channel / 1RB

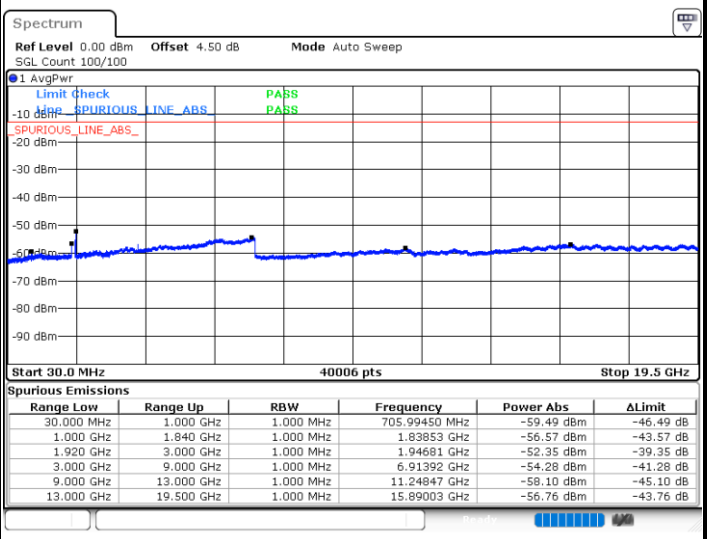



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.02499 MHz | -59.93 dBm | -46.93 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -56.47 dBm | -43.47 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94501 GHz | -52.29 dBm | -39.29 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.91492 GHz | -54.36 dBm | -41.36 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.24347 GHz | -58.20 dBm | -45.20 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.61847 GHz | -56.75 dBm | -43.75 dB |

Date: 4.FEB.2021 06:35:47

### Middle Channel / 1RB

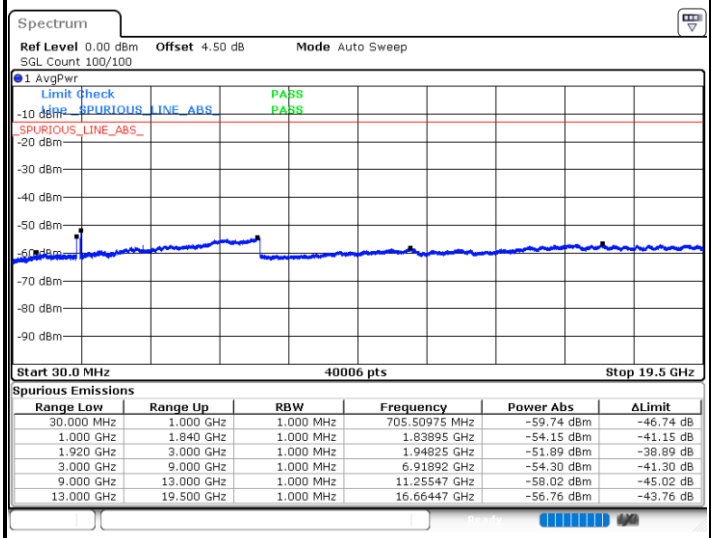



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.99450 MHz | -59.49 dBm | -46.49 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -56.57 dBm | -43.57 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94681 GHz | -52.35 dBm | -39.35 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.91392 GHz | -54.28 dBm | -41.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.24847 GHz | -58.10 dBm | -45.10 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.89003 GHz | -56.76 dBm | -43.76 dB |

Date: 4.FEB.2021 06:40:16

### Highest Channel / 1RB



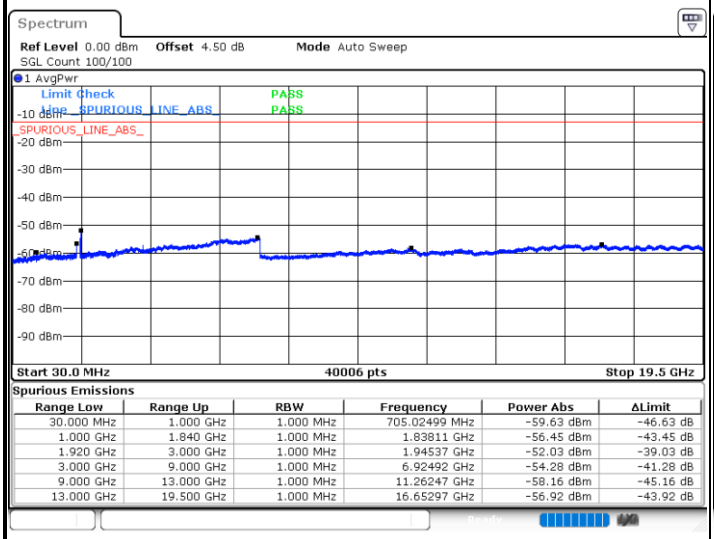

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.50975 MHz | -59.74 dBm | -46.74 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83895 GHz | -54.15 dBm | -41.15 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94825 GHz | -51.89 dBm | -38.89 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.91892 GHz | -54.30 dBm | -41.30 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.25547 GHz | -58.02 dBm | -45.02 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.66447 GHz | -56.76 dBm | -43.76 dB |

Date: 4.FEB.2021 06:49:27

## FR1 n25+12A / 10MHz / DFT-S OFDM / QPSK

### Lowest Channel / 1RB

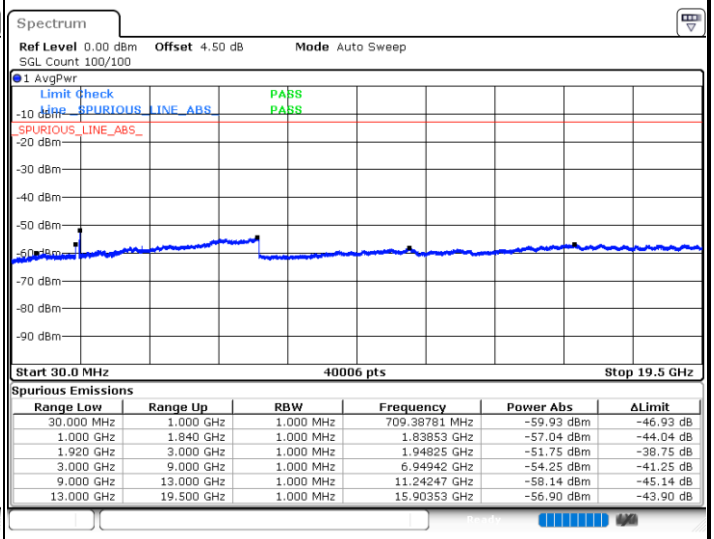



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.02499 MHz | -59.63 dBm | -46.63 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83811 GHz | -56.45 dBm | -43.45 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94537 GHz | -52.03 dBm | -39.03 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.92492 GHz | -54.28 dBm | -41.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.26247 GHz | -58.16 dBm | -45.16 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.65297 GHz | -56.92 dBm | -43.92 dB |

Date: 4.FEB.2021 06:38:19

### Middle Channel / 1RB

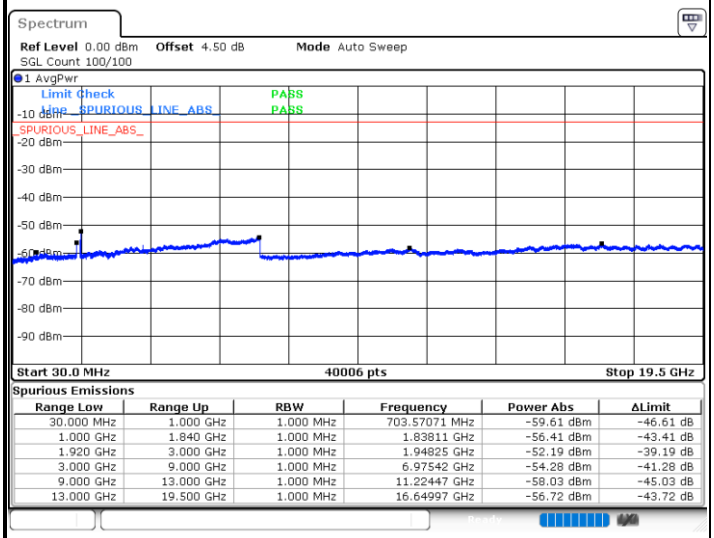



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 709.38781 MHz | -59.93 dBm | -46.93 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -57.04 dBm | -44.04 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94825 GHz | -51.75 dBm | -38.75 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.94942 GHz | -54.25 dBm | -41.25 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.24247 GHz | -58.14 dBm | -45.14 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.90353 GHz | -56.90 dBm | -43.90 dB |

Date: 4.FEB.2021 06:42:38

### Highest Channel / 1RB



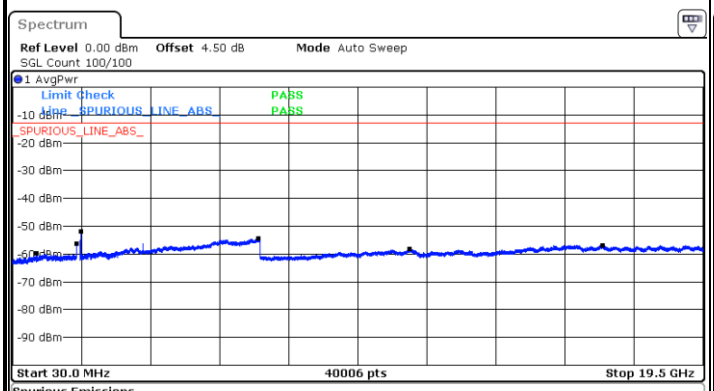

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 703.57071 MHz | -59.61 dBm | -46.61 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83811 GHz | -56.41 dBm | -43.41 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94825 GHz | -52.19 dBm | -39.19 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.97542 GHz | -54.28 dBm | -41.28 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.22447 GHz | -58.03 dBm | -45.03 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.64997 GHz | -56.72 dBm | -43.72 dB |

Date: 4.FEB.2021 06:51:46

## FR1 n25+12A / 20MHz / DFT-S OFDM / BPSK

### Lowest Channel / 1RB

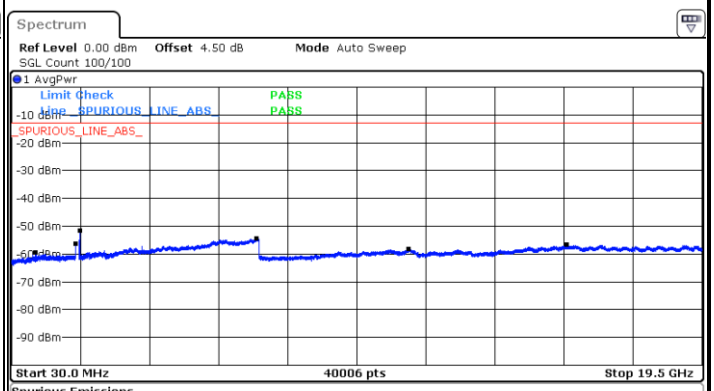



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 704.54023 MHz | -59.61 dBm | -46.61 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -56.18 dBm | -43.18 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94645 GHz | -52.02 dBm | -39.02 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.95192 GHz | -54.27 dBm | -41.27 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.21247 GHz | -58.14 dBm | -45.14 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.66397 GHz | -56.80 dBm | -43.80 dB |

Date: 4.FEB.2021 06:25:54

### Middle Channel / 1RB

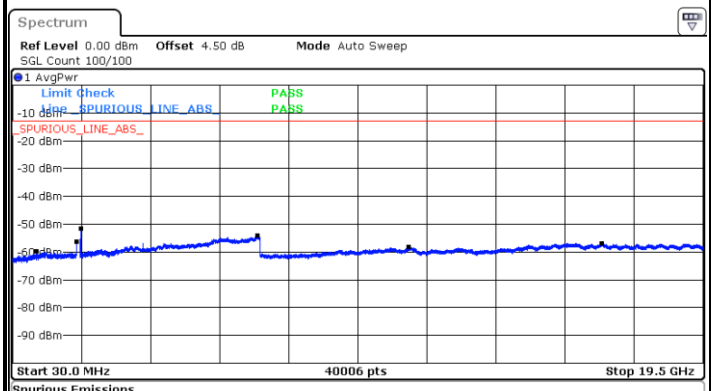



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 704.05547 MHz | -59.54 dBm | -46.54 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83937 GHz | -56.33 dBm | -43.33 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94789 GHz | -51.60 dBm | -38.60 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.94142 GHz | -54.40 dBm | -41.40 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20747 GHz | -58.12 dBm | -45.12 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.68154 GHz | -56.73 dBm | -43.73 dB |

Date: 4.FEB.2021 06:30:15

### Highest Channel / 1RB



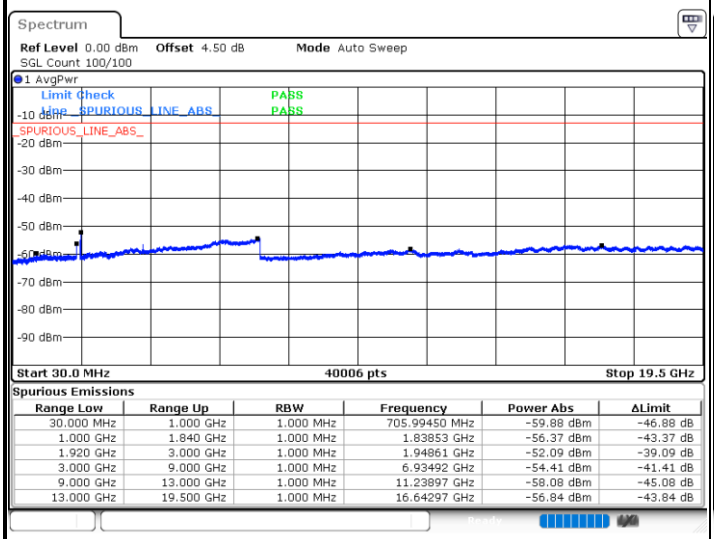

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.50975 MHz | -59.75 dBm | -46.75 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83895 GHz | -56.23 dBm | -43.23 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94645 GHz | -51.69 dBm | -38.69 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.93092 GHz | -54.20 dBm | -41.20 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.20447 GHz | -58.21 dBm | -45.21 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.64747 GHz | -56.78 dBm | -43.78 dB |

Date: 4.FEB.2021 06:32:36

## FR1 n25+12A / 20MHz / DFT-S OFDM / QPSK

### Lowest Channel / 1RB

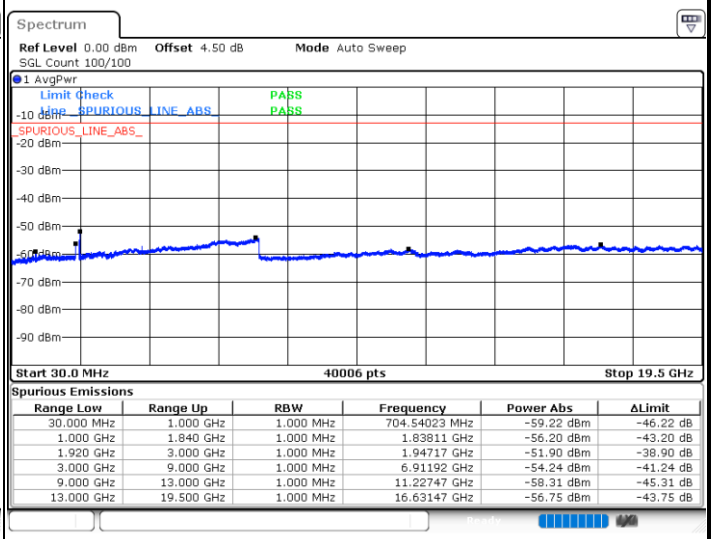



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 705.99450 MHz | -59.88 dBm | -46.88 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -56.37 dBm | -43.37 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94861 GHz | -52.09 dBm | -39.09 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.93492 GHz | -54.41 dBm | -41.41 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.23897 GHz | -58.08 dBm | -45.08 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.64297 GHz | -56.84 dBm | -43.84 dB |

Date: 4.FEB.2021 06:27:12

### Middle Channel / 1RB

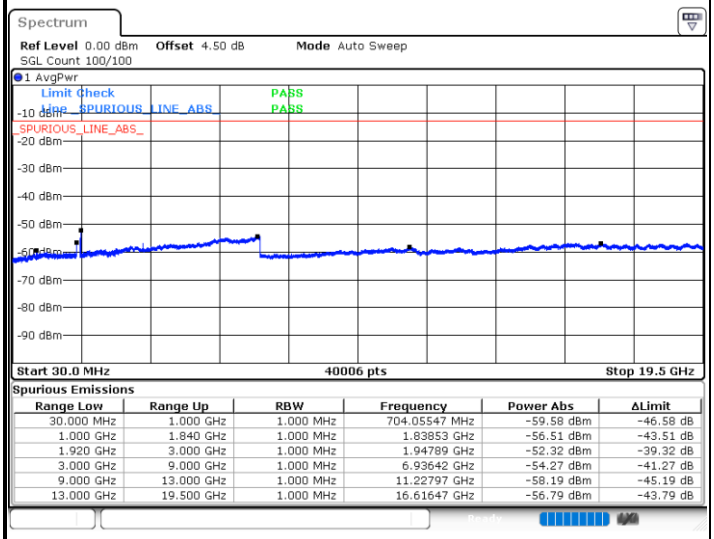



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 704.54023 MHz | -59.22 dBm | -46.22 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83811 GHz | -56.20 dBm | -43.20 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94717 GHz | -51.90 dBm | -38.90 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.91192 GHz | -54.24 dBm | -41.24 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.22747 GHz | -58.31 dBm | -45.31 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.63147 GHz | -56.75 dBm | -43.75 dB |

Date: 4.FEB.2021 06:29:21

### Highest Channel / 1RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 704.05547 MHz | -59.58 dBm | -46.58 dB |
| 1.000 GHz | 1.840 GHz | 1.000 MHz | 1.83853 GHz | -56.51 dBm | -43.51 dB |
| 1.920 GHz | 3.000 GHz | 1.000 MHz | 1.94789 GHz | -52.32 dBm | -39.32 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.93642 GHz | -54.27 dBm | -41.27 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.22797 GHz | -58.19 dBm | -45.19 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 16.61647 GHz | -56.79 dBm | -43.79 dB |

Date: 4.FEB.2021 06:33:47

# Frequency Stability

| Test Conditions | | NR n25+12A (BPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Within Band |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0034 | PASS |
| 40 | Normal Voltage | 0.0017 | |
| 30 | Normal Voltage | 0.0018 | |
| 20(Ref.) | Normal Voltage | 0.0013 | |
| 10 | Normal Voltage | 0.0015 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0025 | |
| -20 | Normal Voltage | 0.0019 | |
| -30 | Normal Voltage | 0.0017 | |
| 20 | Maximum Voltage | 0.0029 | |
| 20 | Normal Voltage | 0.0025 | |
| 20 | Battery End Point | 0.0023 | |

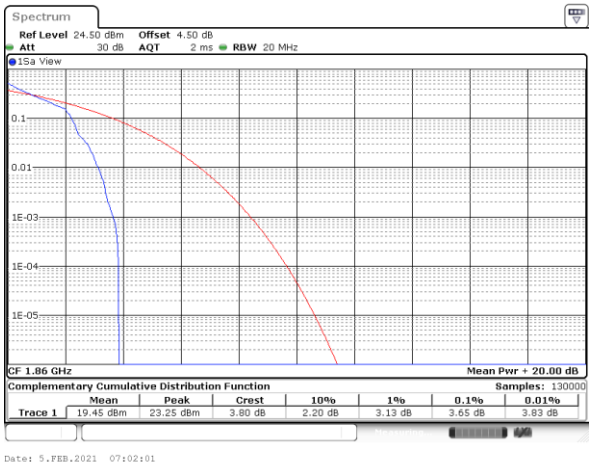
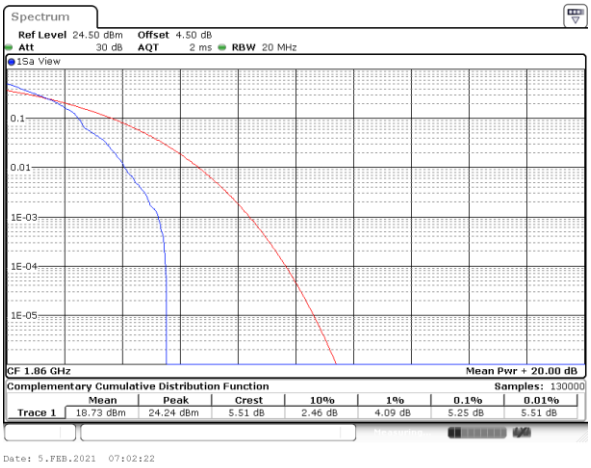
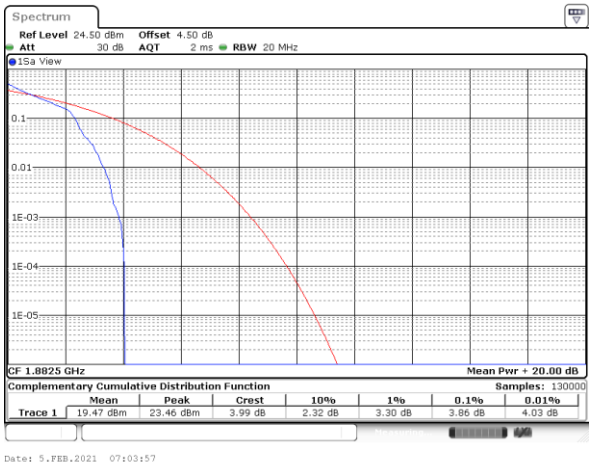
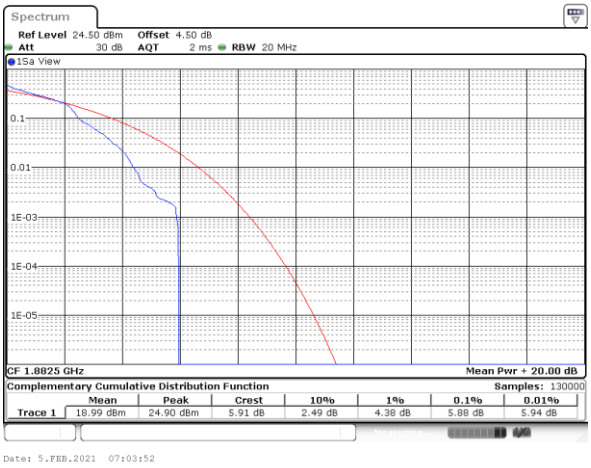
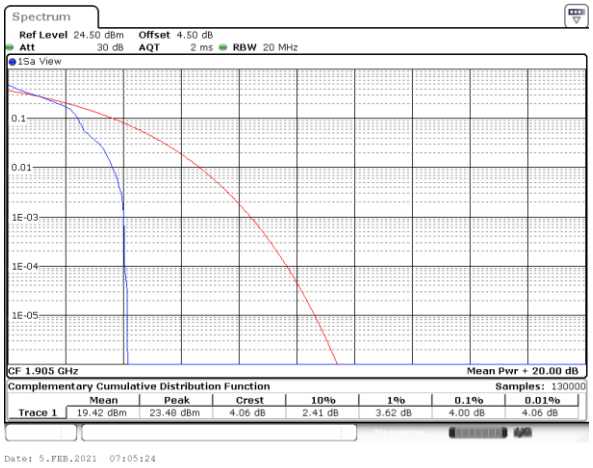
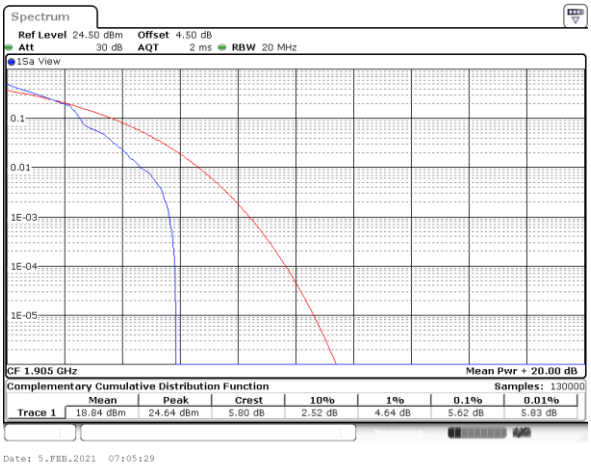
**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

# SA

## Peak-to-Average Ratio

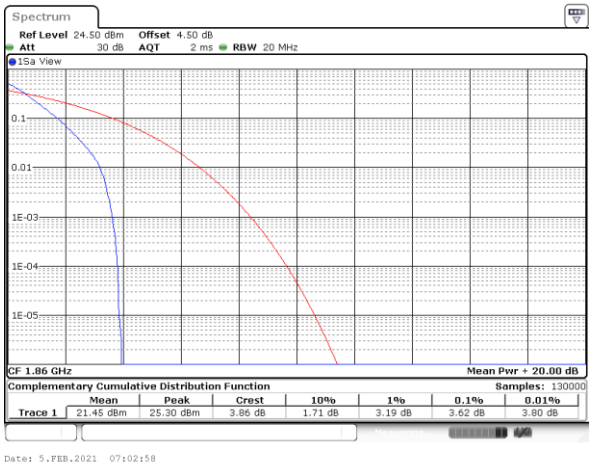
| Mode | FR1 n25 / 20MHz / DFT-S OFDM | | | | |
|---|---|---|---|---|---|
| Mod. | PI/2 BPSK | PI/2 BPSK | QPSK | QPSK | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.65 | 3.62 | 5.25 | 5.13 | PASS |
| Middle CH | 3.86 | 3.59 | 5.88 | 5.13 | |
| Highest CH | 4.00 | 3.68 | 5.62 | 5.33 | |

| FR1 n25 / 20MHz / DFT-S OFDM | |
|---|---|
| **PI/2 BPSK** | **QPSK** |
| **Lowest Channel / 1RB** | **Lowest Channel / 1RB** |
|  |  |
| **Middle Channel / 1 RB** | **Middle Channel / 1 RB** |
|  |  |
| **Highest Channel / 1 RB** | **Highest Channel / 1 RB** |
|  |  |

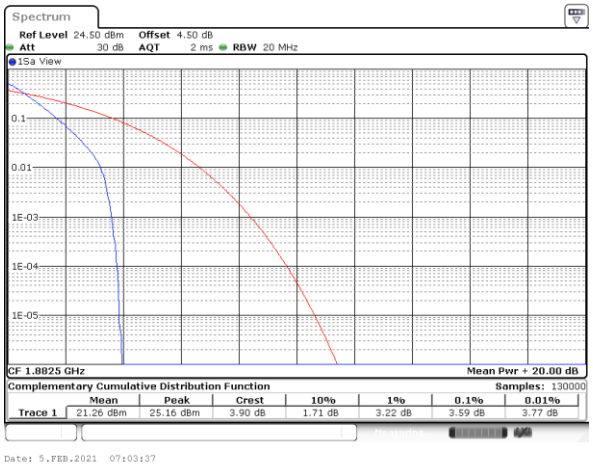
## FR1 n25 / 20MHz / DFT-S OFDM

### PI/2 BPSK

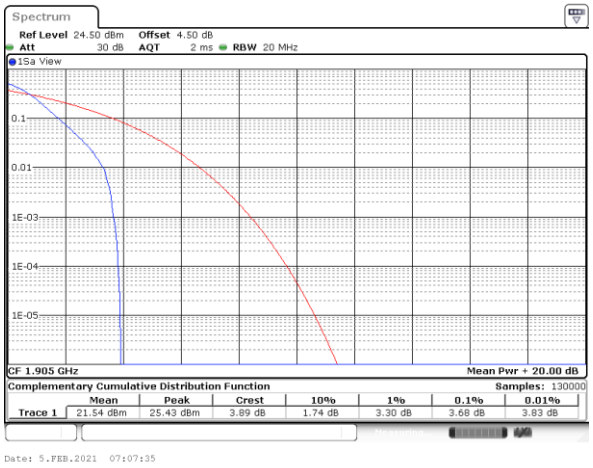
#### Lowest Channel / Full RB




#### Middle Channel / Full RB

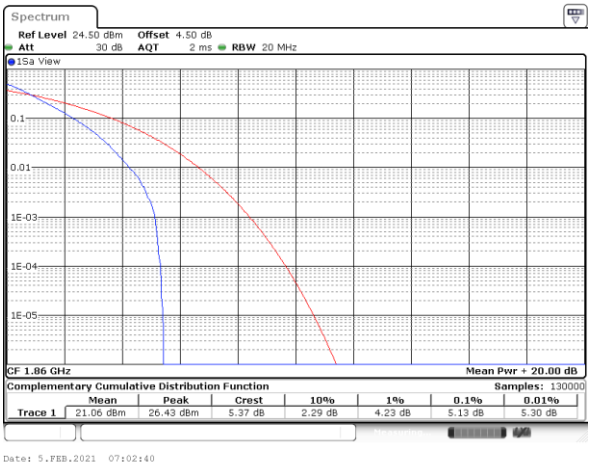



#### Highest Channel / Full RB

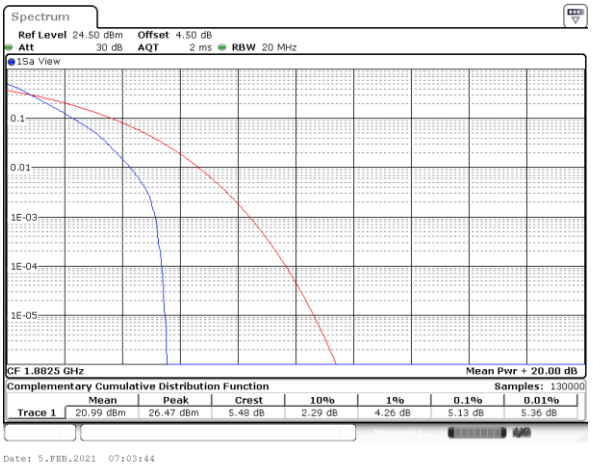



### QPSK

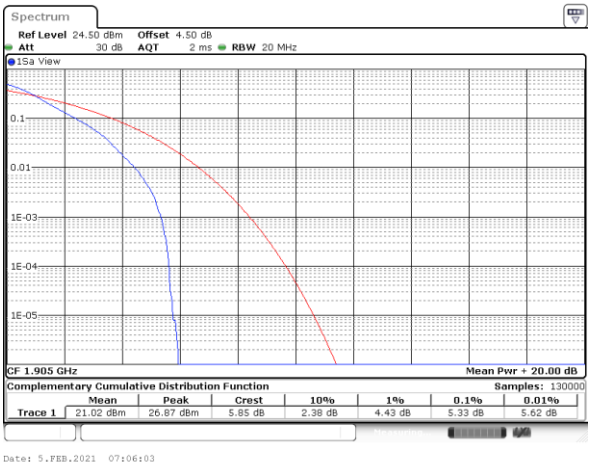
#### Lowest Channel / Full RB




#### Middle Channel / Full RB




#### Highest Channel / Full RB



# 26dB Bandwidth

| Mode | FR1 n25 : 26dB BW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 5MHz | 5MHz | 5MHz | 5MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 4.86 | 4.93 | 5.00 | 4.95 |

| Mode | FR1 n25 : 26dB BW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 10MHz | 10MHz | 10MHz | 10MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 9.89 | 9.99 | 9.79 | 9.87 |

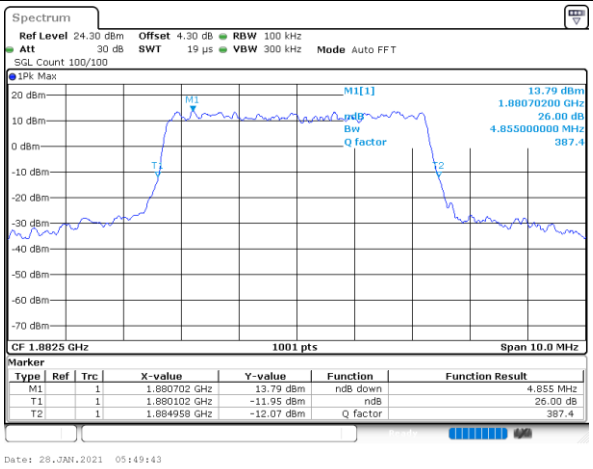
| Mode | FR1 n25 : 26dB BW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 15MHz | 15MHz | 15MHz | 15MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 15.02 | 15.02 | 14.93 | 14.96 |

| Mode | FR1 n25 : 26dB BW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 20MHz | 20MHz | 20MHz | 20MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 19.90 | 19.90 | 19.86 | 19.94 |

## FR1 n25 / 5MHz / CP-OFDM

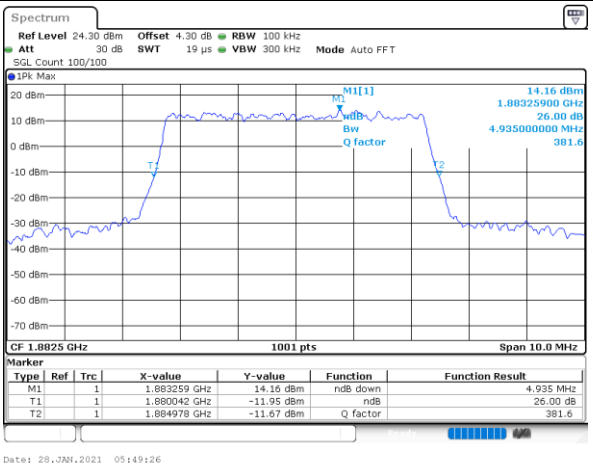
### QPSK

#### Middle Channel



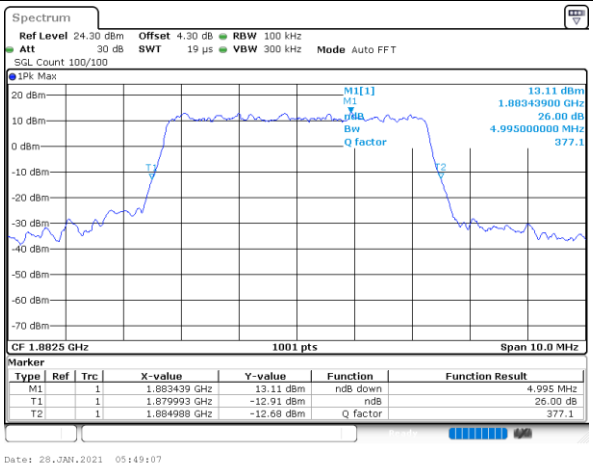

### 16QAM

#### Middle Channel



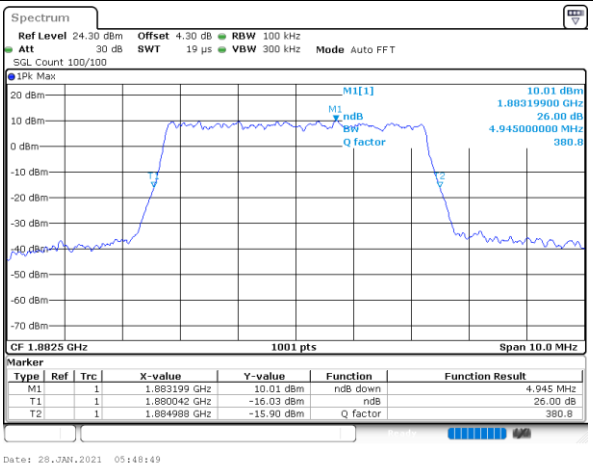

### 64QAM

#### Middle Channel




### 256QAM

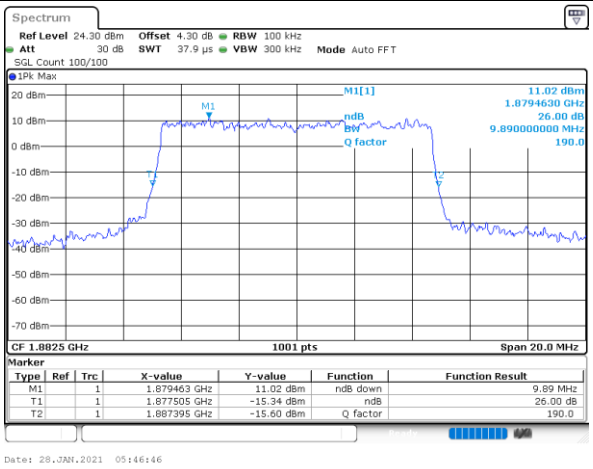
#### Middle Channel



## FR1 n25 / 10MHz / CP-OFDM

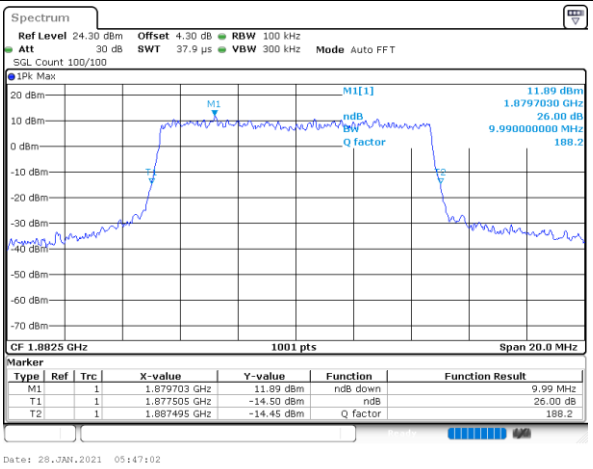
### QPSK

#### Middle Channel



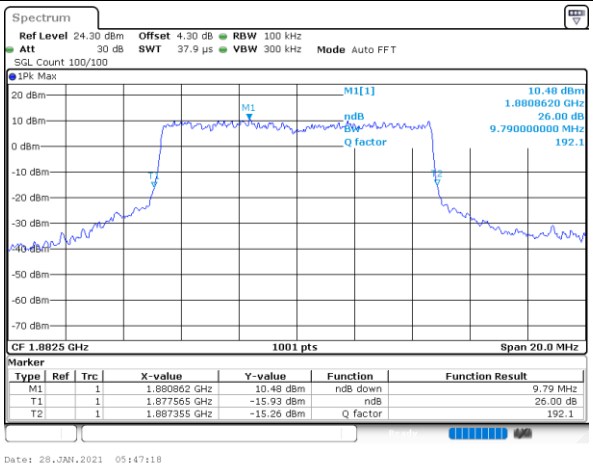

### 16QAM

#### Middle Channel



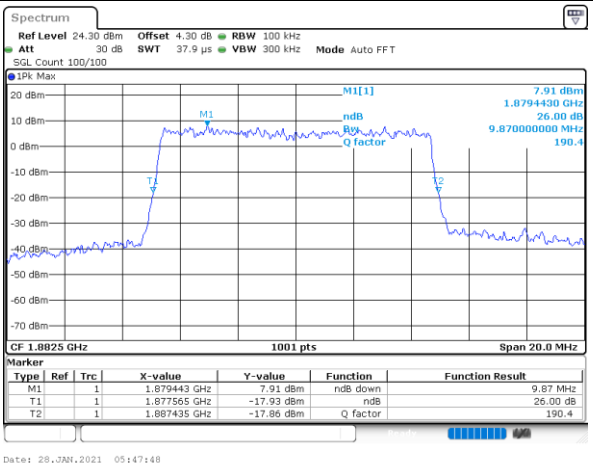

### 64QAM

#### Middle Channel




### 256QAM

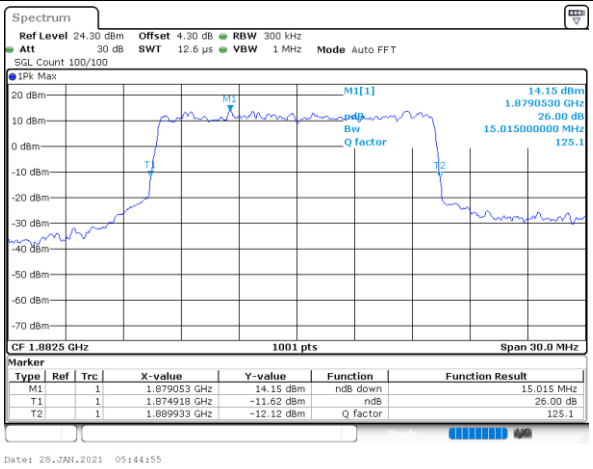
#### Middle Channel



## FR1 n25 / 15MHz / CP-OFDM

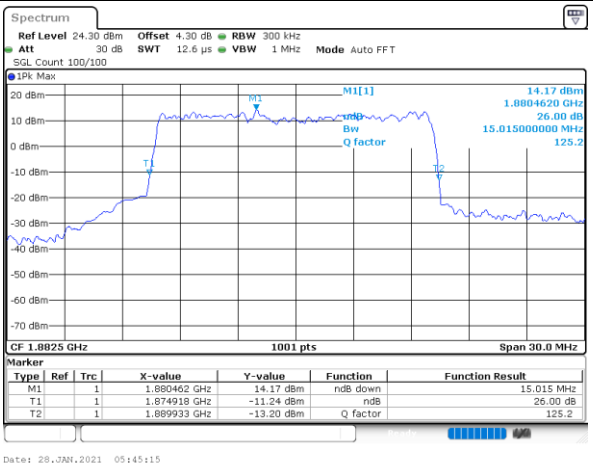
### QPSK

#### Middle Channel



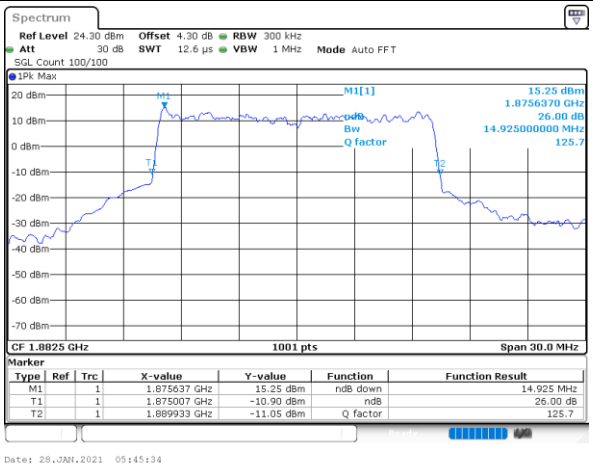

### 16QAM

#### Middle Channel



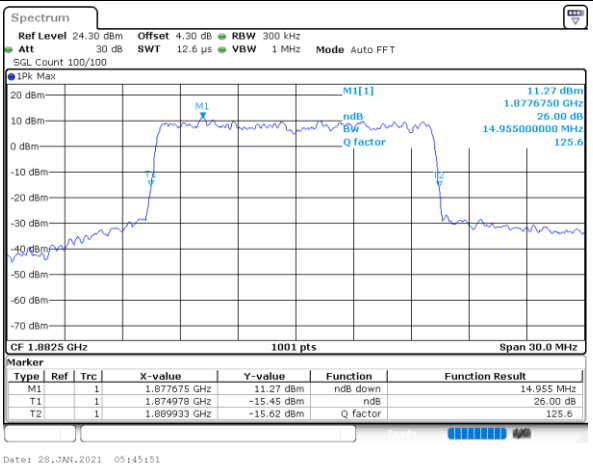

### 64QAM

#### Middle Channel




### 256QAM

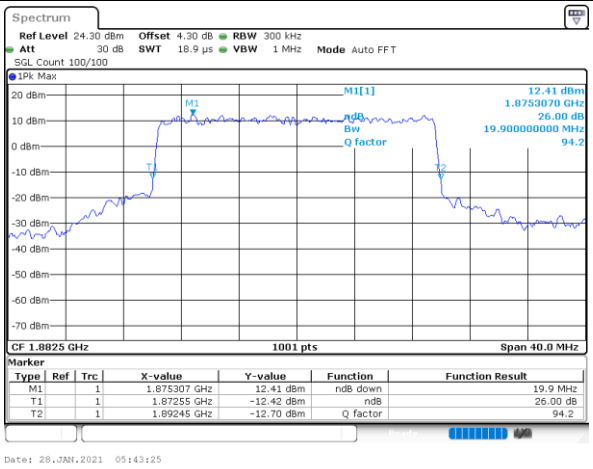
#### Middle Channel



## FR1 n25 / 20MHz / CP-OFDM

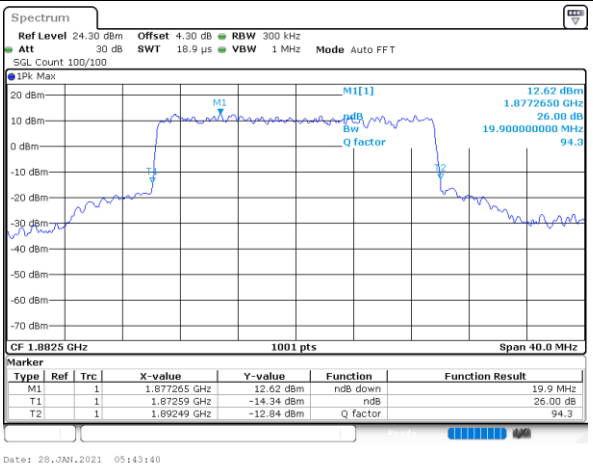
### QPSK

#### Middle Channel



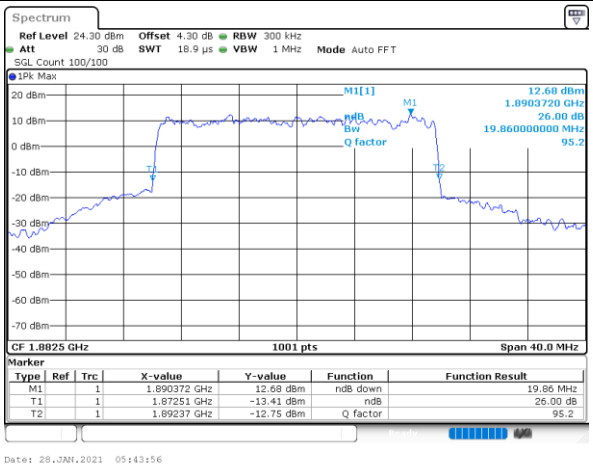

### 16QAM

#### Middle Channel



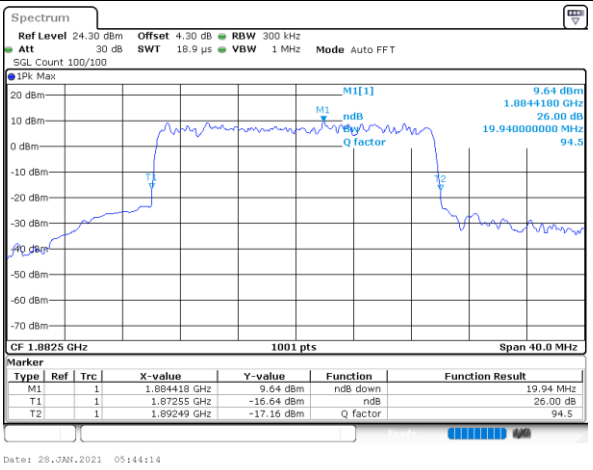

### 64QAM

#### Middle Channel




### 256QAM

#### Middle Channel



# Occupied Bandwidth

| Mode | FR1 n25 : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 5MHz | 5MHz | 5MHz | 5MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 4.50 | 4.53 | 4.49 | 4.48 |

| Mode | FR1 n25 : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 10MHz | 10MHz | 10MHz | 10MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 9.29 | 9.29 | 9.27 | 9.29 |

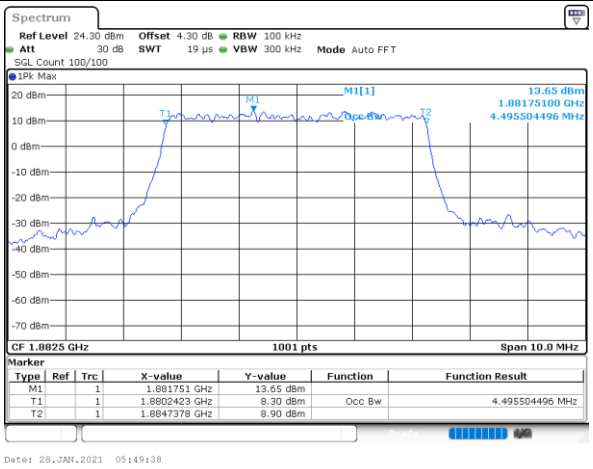
| Mode | FR1 n25 : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 15MHz | 15MHz | 15MHz | 15MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 14.12 | 14.18 | 14.21 | 14.12 |

| Mode | FR1 n25 : OBW(MHz) / CP-OFDM | | | |
|---|---|---|---|---|
| BW | 20MHz | 20MHz | 20MHz | 20MHz |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | 18.90 | 18.94 | 18.98 | 18.94 |

## FR1 n25 / 5MHz / CP-OFDM

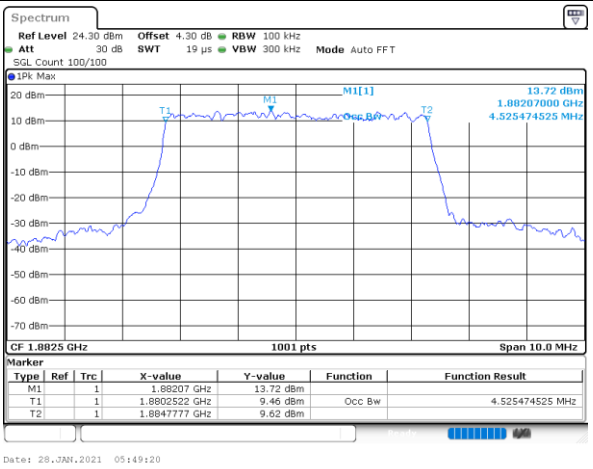
### QPSK

#### Middle Channel



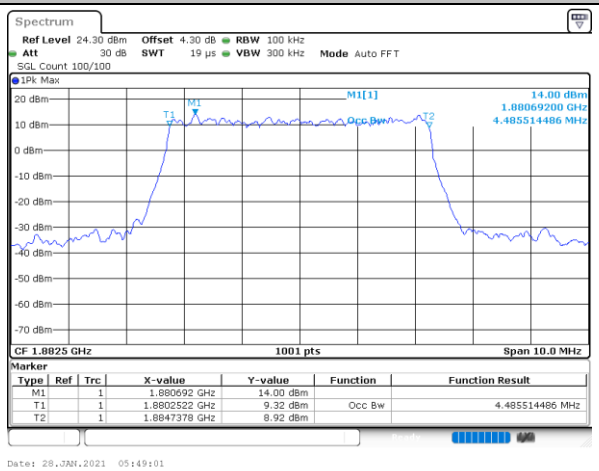

### 16QAM

#### Middle Channel



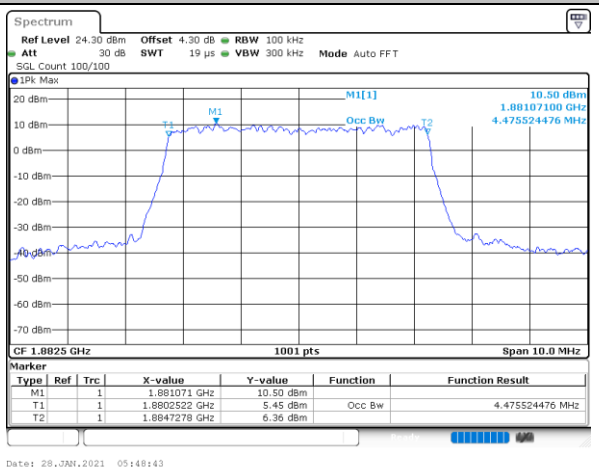

### 64QAM

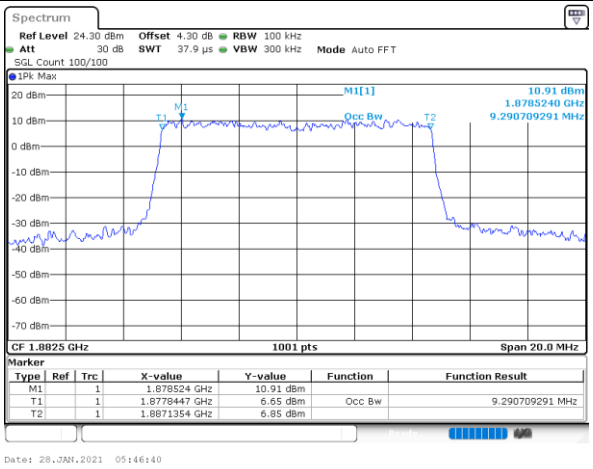
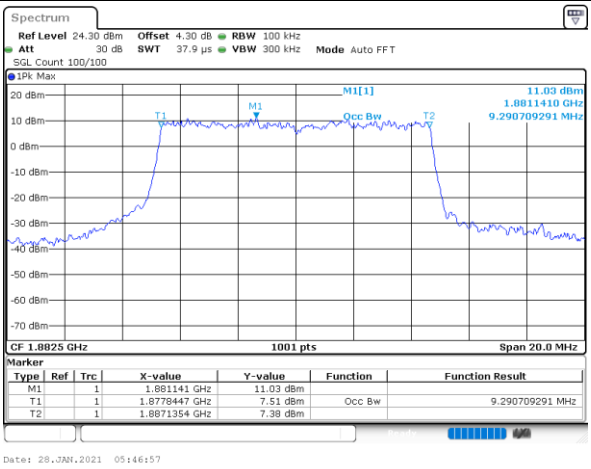
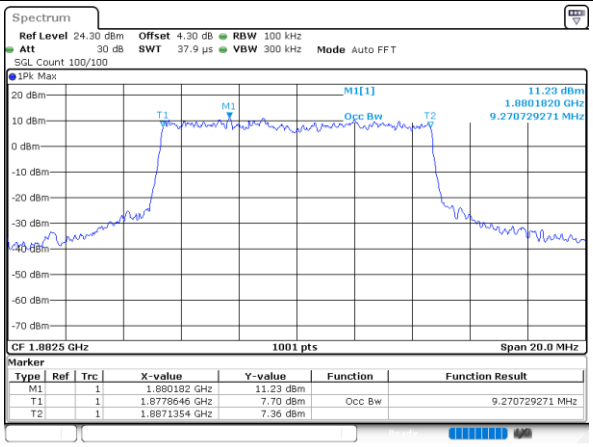
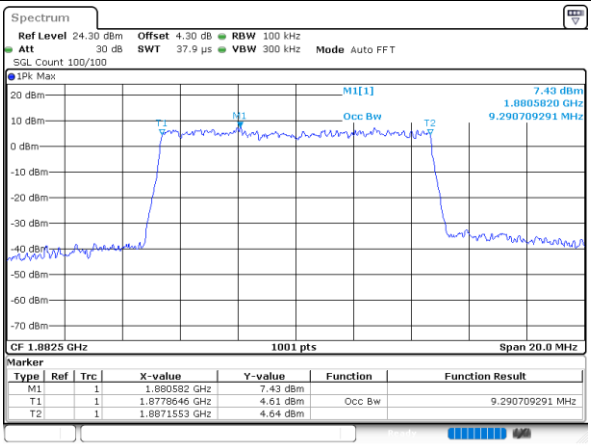
#### Middle Channel




### 256QAM

#### Middle Channel

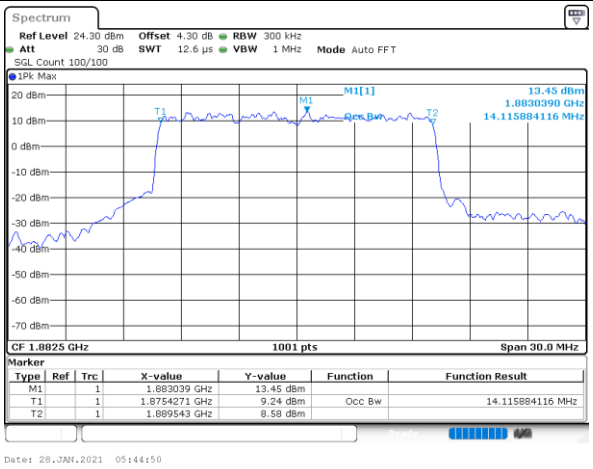


| FR1 n25 / 10MHz / CP-OFDM | |
|---|---|
| **QPSK** | **16QAM** |
| **Middle Channel** | **Middle Channel** |
|  |  |
| **64QAM** | **256QAM** |
| **Middle Channel** | **Middle Channel** |
|  |  |

## FR1 n25 / 15MHz / CP-OFDM

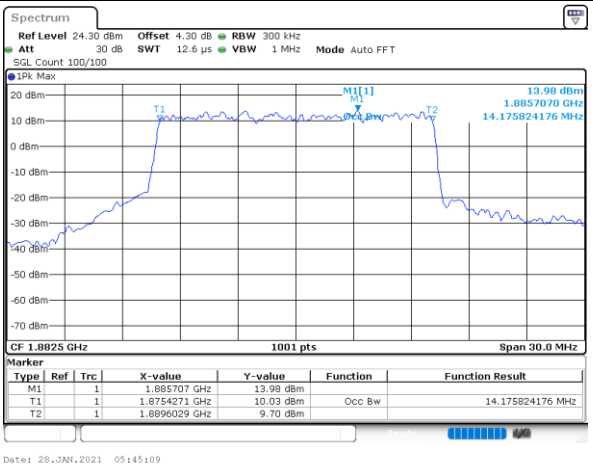
### QPSK

#### Middle Channel



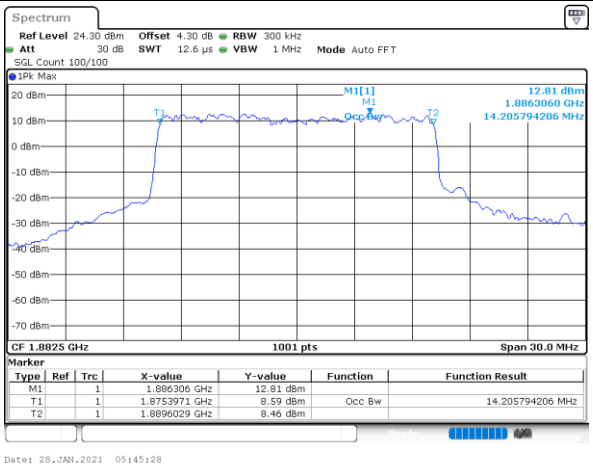

### 16QAM

#### Middle Channel



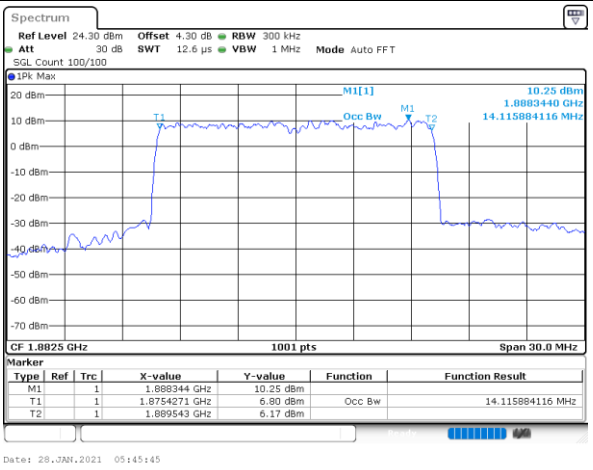

### 64QAM

#### Middle Channel




### 256QAM

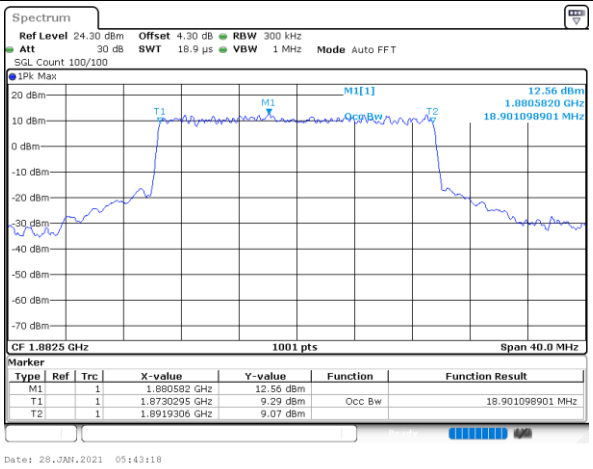
#### Middle Channel



## FR1 n25 / 20MHz / CP-OFDM

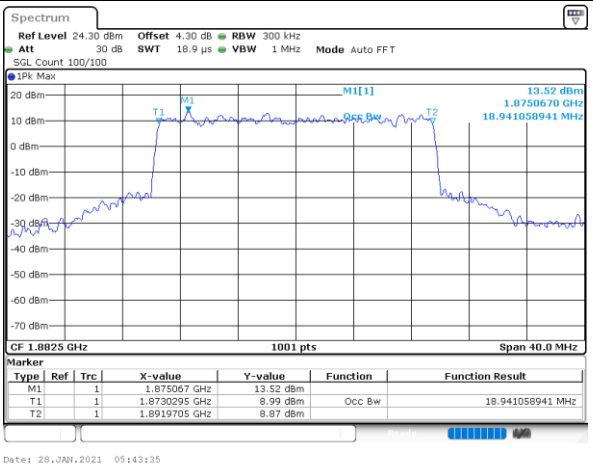
### QPSK

#### Middle Channel



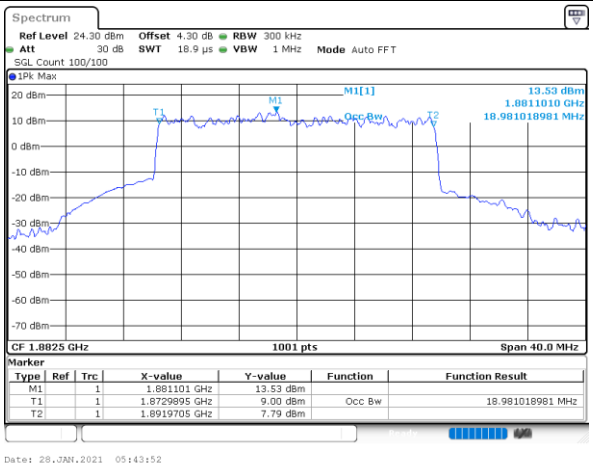

### 16QAM

#### Middle Channel



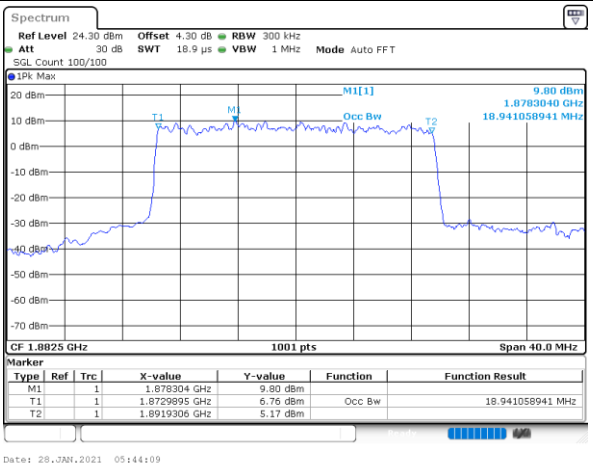

### 64QAM

#### Middle Channel

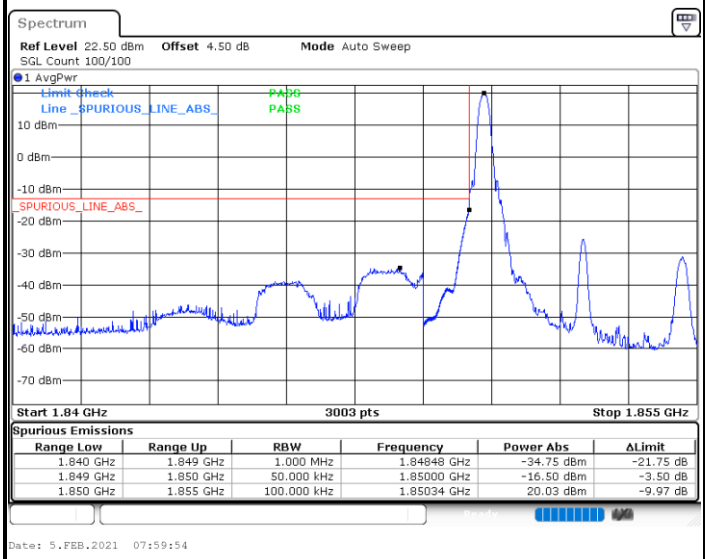
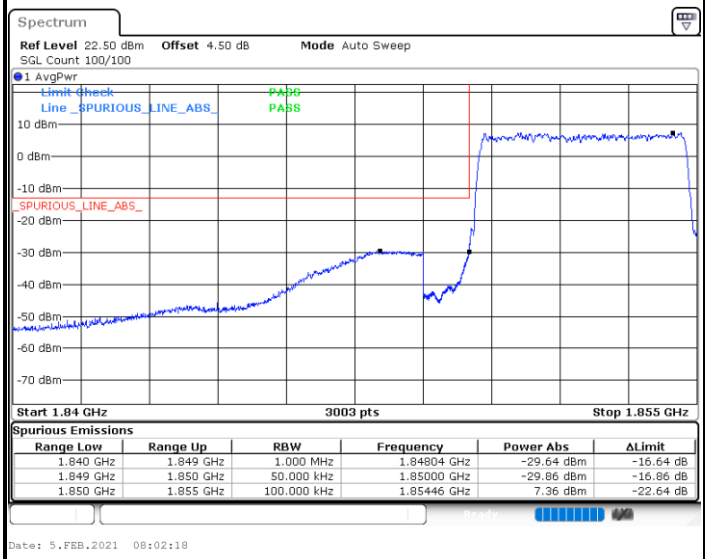


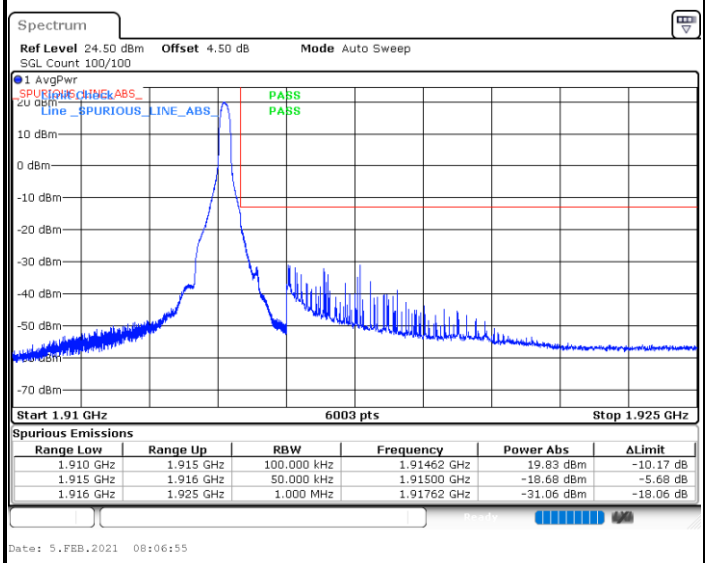
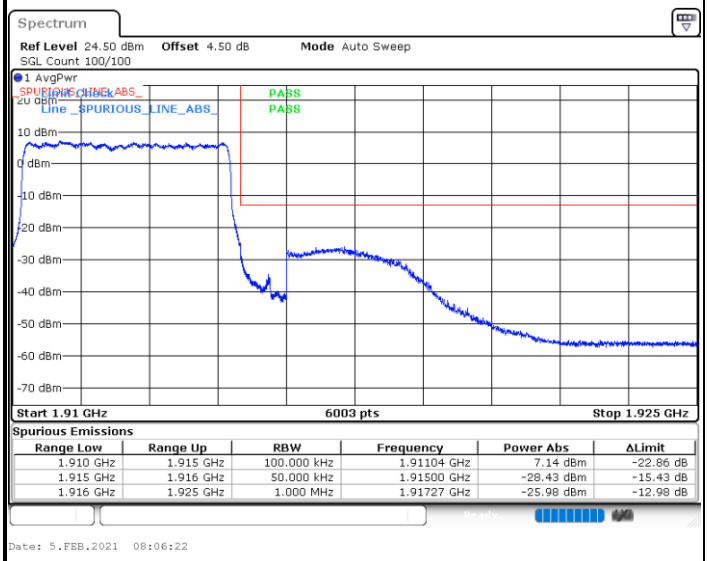

### 256QAM

#### Middle Channel



# Conducted Band Edge

| FR1 n25 / 5MHz / DFT-S OFDM BPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Lowest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |

| FR1 n25 / 5MHz / DFT-S OFDM BPSK | |
|---|---|
| **Highest Band Edge / 1 RB** | **Channel Power < -13dBm Pass** |
|  | / |
| **Highest Band Edge / Full RB** | **Channel Power < -13dBm Pass** |
|  | / |