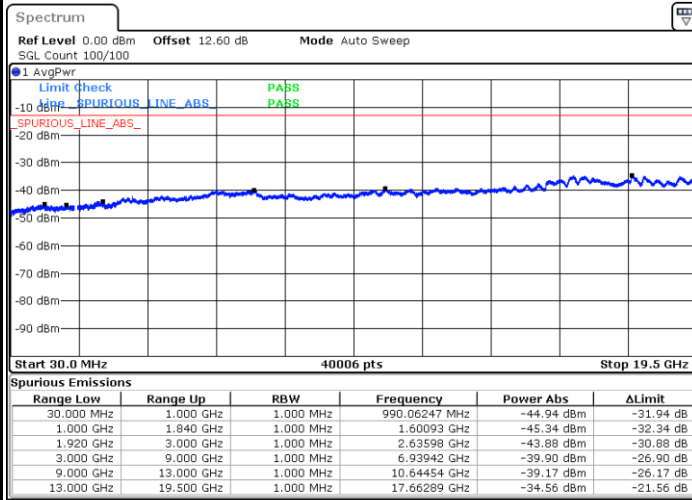




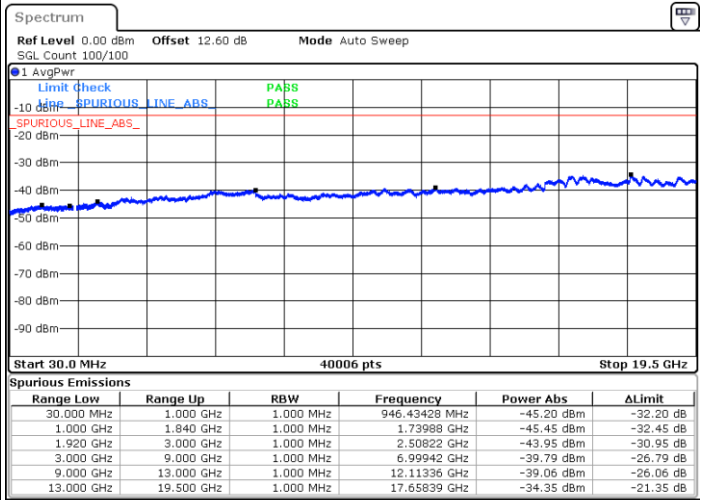
## LTE Band 2 / 10MHz

## Lowest Channel / QPSK



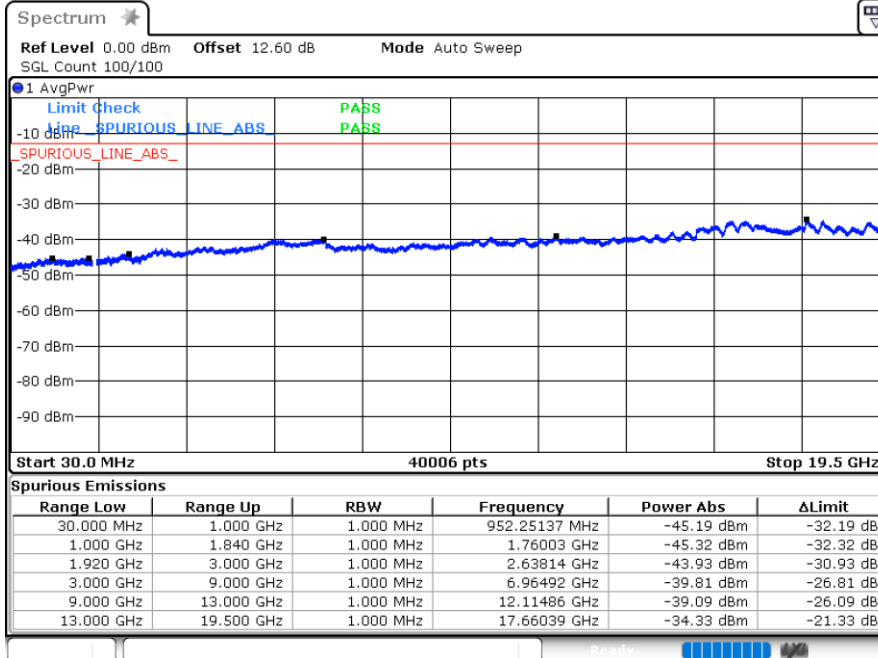
Date: 16.JUN.2022 16:14:09

## Middle Channel / QPSK



Date: 16.JUN.2022 16:13:27

## Highest Channel / QPSK

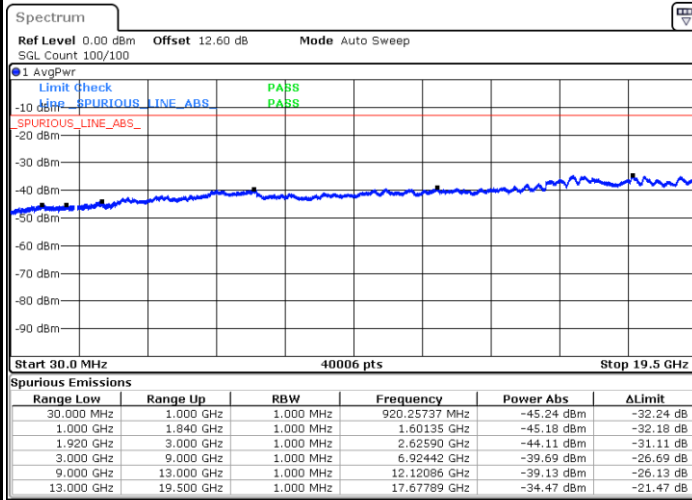


Date: 16.JUN.2022 16:12:43



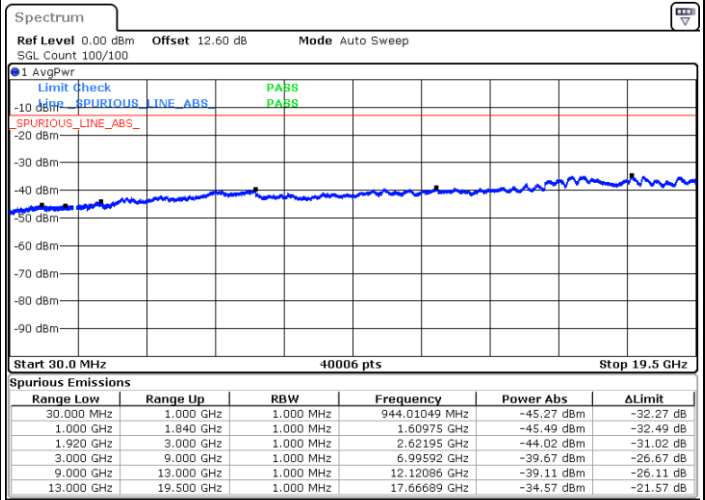
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



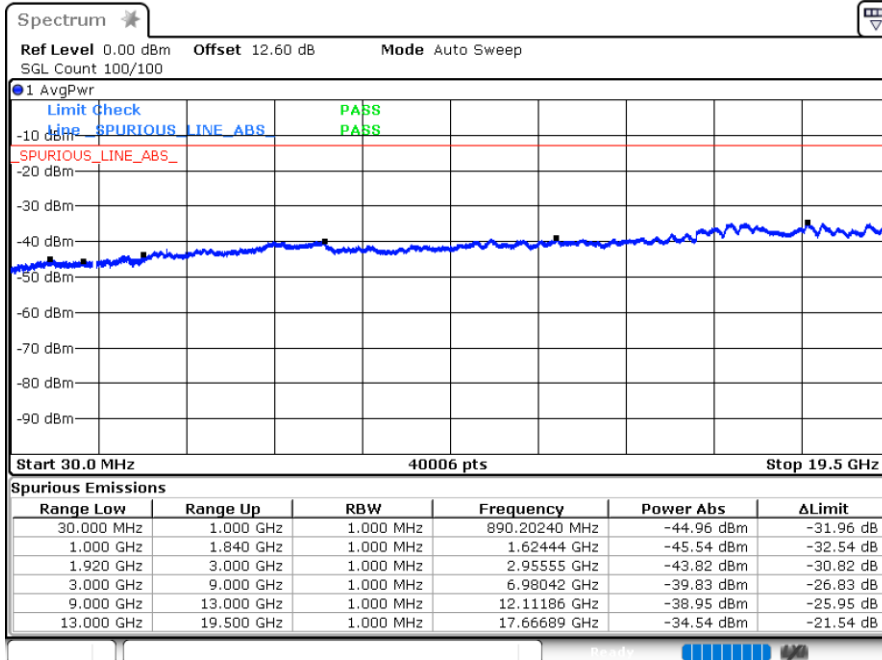
Date: 16.JUN.2022 16:23:11

## Middle Channel / QPSK



Date: 16.JUN.2022 16:22:28

## Highest Channel / QPSK

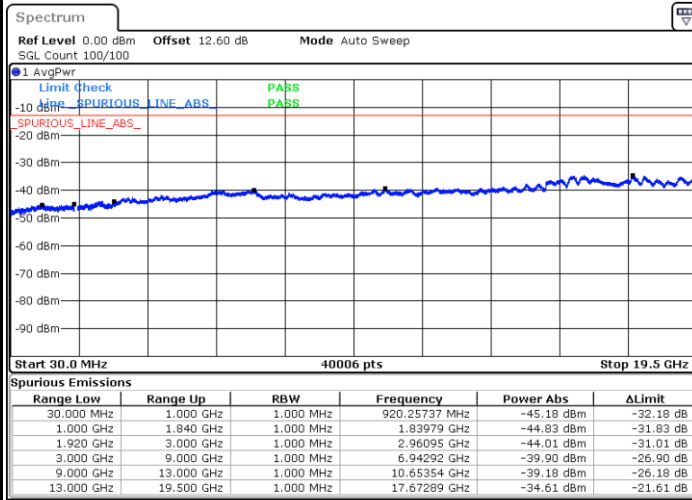


Date: 16.JUN.2022 16:21:48



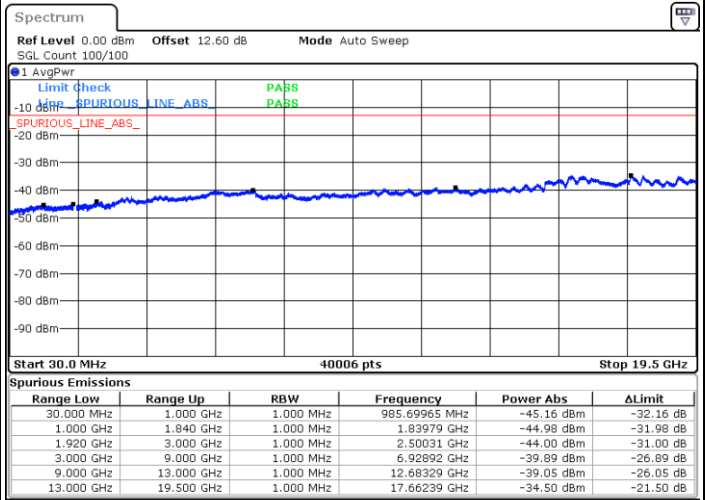
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



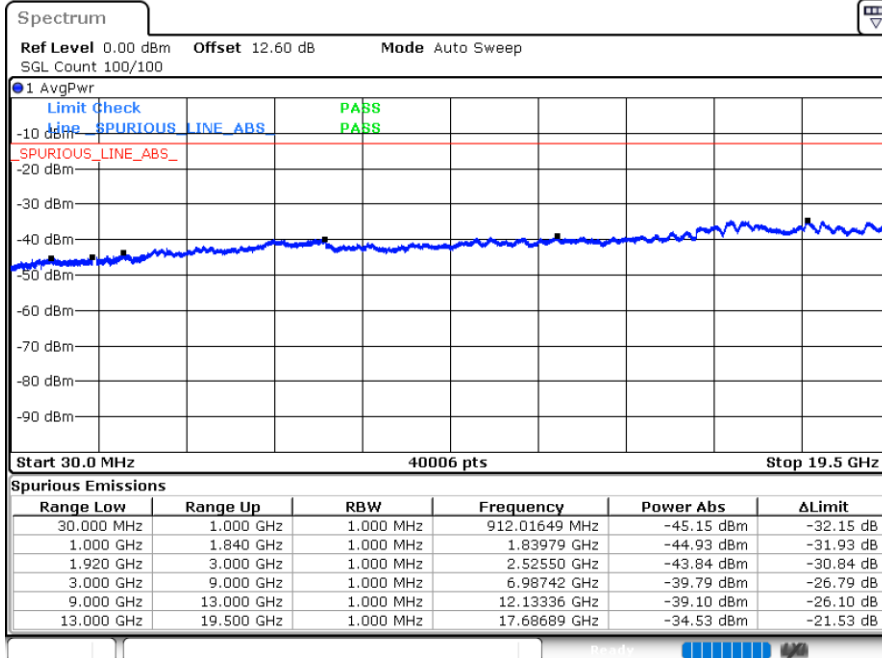
Date: 16.JUN.2022 16:36:05

## Middle Channel / QPSK



Date: 16.JUN.2022 16:36:47

## Highest Channel / QPSK



Date: 16.JUN.2022 16:37:32

## Frequency Stability

| Test Conditions  |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0025                             | PASS    |
| 40               | Normal Voltage    | 0.0004                             |         |
| 30               | Normal Voltage    | 0.0021                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0029                             |         |
| 0                | Normal Voltage    | 0.0012                             |         |
| -10              | Normal Voltage    | 0.0004                             |         |
| -20              | Normal Voltage    | 0.0018                             |         |
| -30              | Normal Voltage    | 0.0027                             |         |
| 20               | Maximum Voltage   | 0.0030                             |         |
| 20               | Normal Voltage    | 0.0029                             |         |
| 20               | Battery End Point | 0.0018                             |         |

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



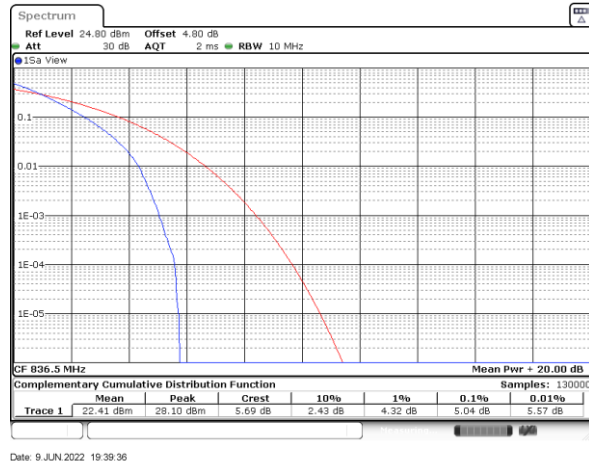
## LTE Band 5

### Peak-to-Average Ratio

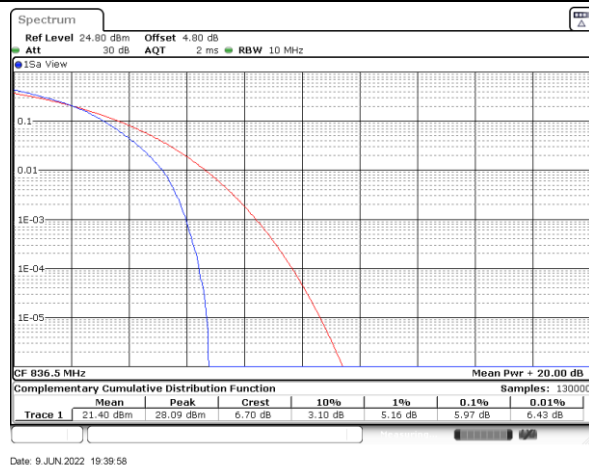
| Mode      | LTE Band 5 / 10MHz |         |         |             |
|-----------|--------------------|---------|---------|-------------|
| Mod.      | QPSK               | 16QAM   | 64QAM   | Limit: 13dB |
| RB Size   | Full RB            | Full RB | Full RB | Result      |
| Middle CH | 5.04               | 5.97    | 6.64    | PASS        |

LTE Band 5 / 10MHz

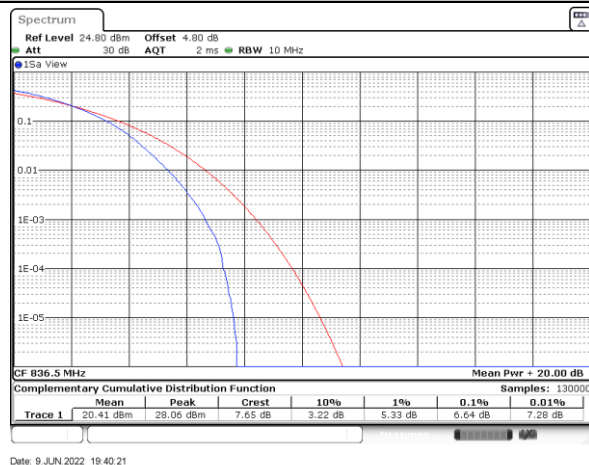
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

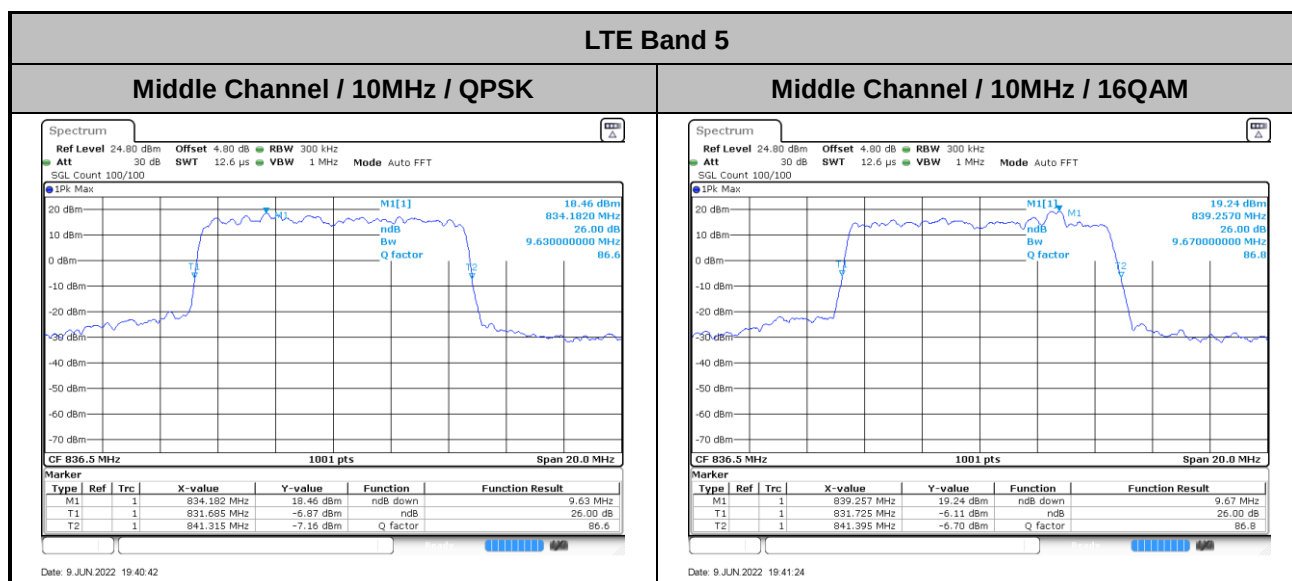


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

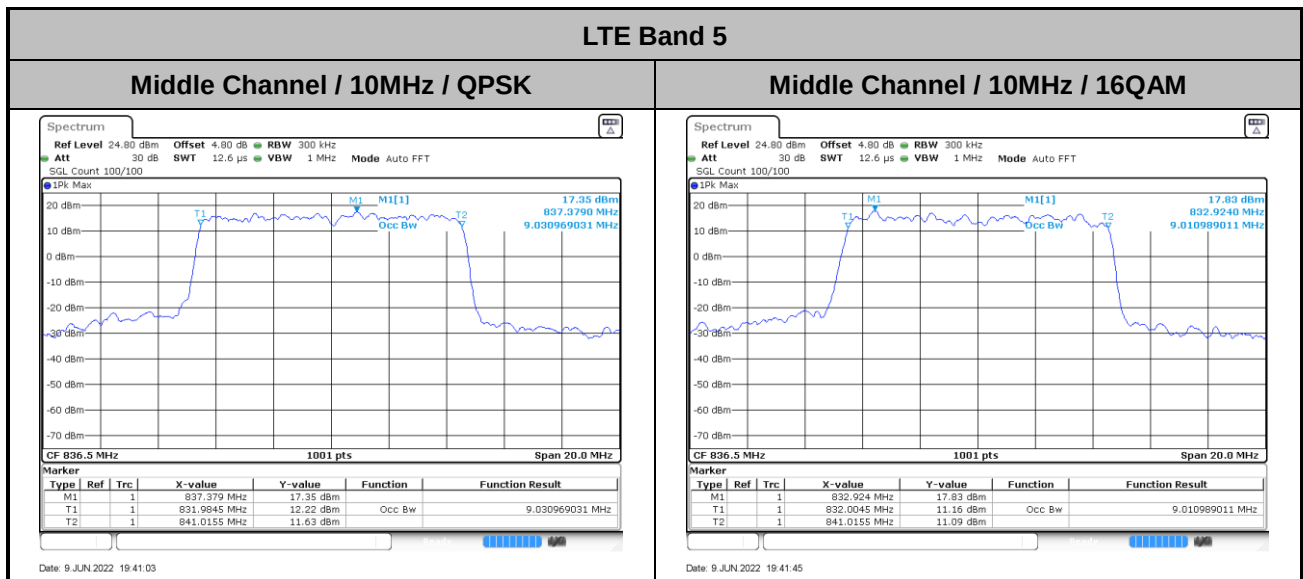
| Mode      | LTE Band 5 : 26dB BW(MHz) |       |
|-----------|---------------------------|-------|
| BW        | 10MHz                     |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 9.63                      | 9.67  |





## Occupied Bandwidth

| Mode      | LTE Band 5 : 99%OBW(MHz) |       |
|-----------|--------------------------|-------|
| BW        | 10MHz                    |       |
| Mod.      | QPSK                     | 16QAM |
| Middle CH | 9.03                     | 9.01  |

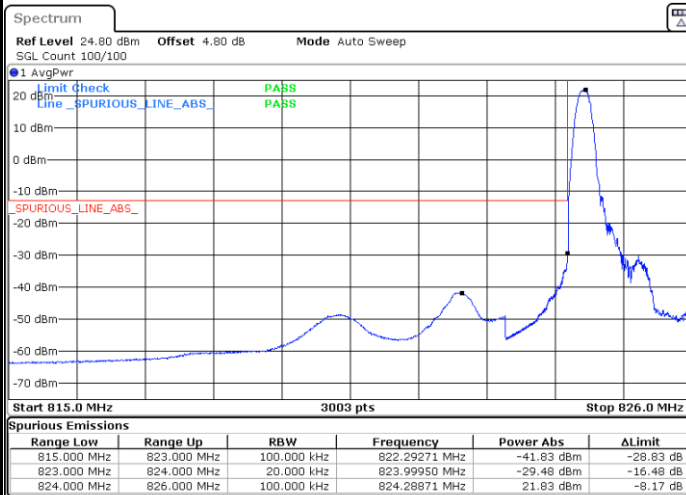




# Conducted Band Edge

## LTE Band 5 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



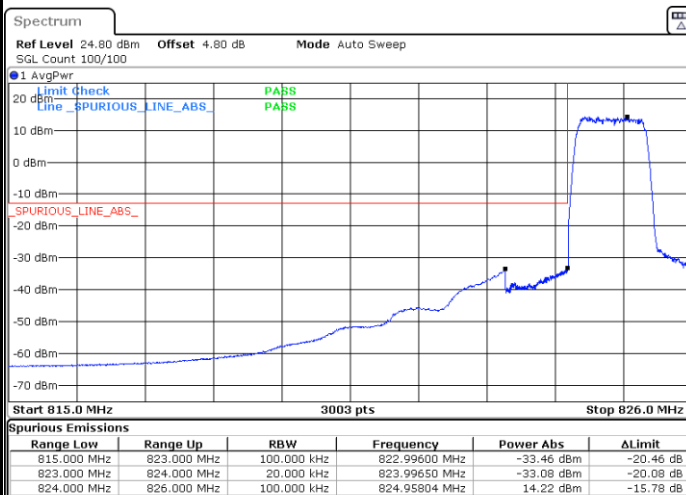
Date: 9 JUN 2022 17:58:27

### Highest Band Edge / 1RB



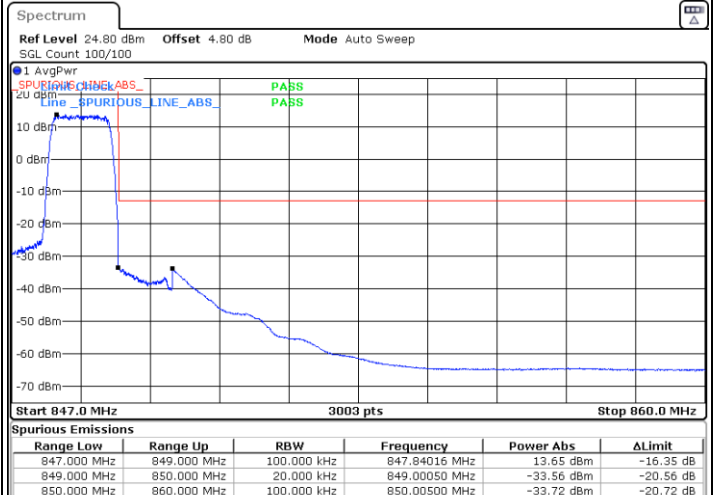
Date: 9 JUN 2022 18:12:06

### Lowest Band Edge / Full RB



Date: 9 JUN 2022 18:03:57

### Highest Band Edge / Full RB

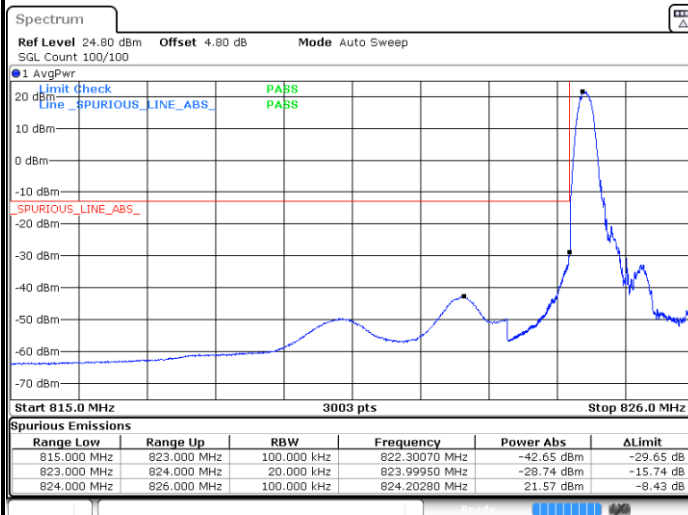


Date: 9 JUN 2022 18:17:36

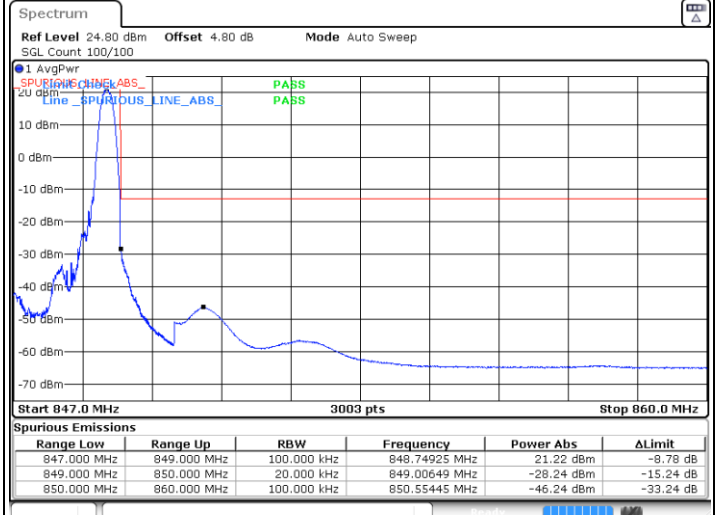


## LTE Band 5 / 1.4MHz / 16QAM

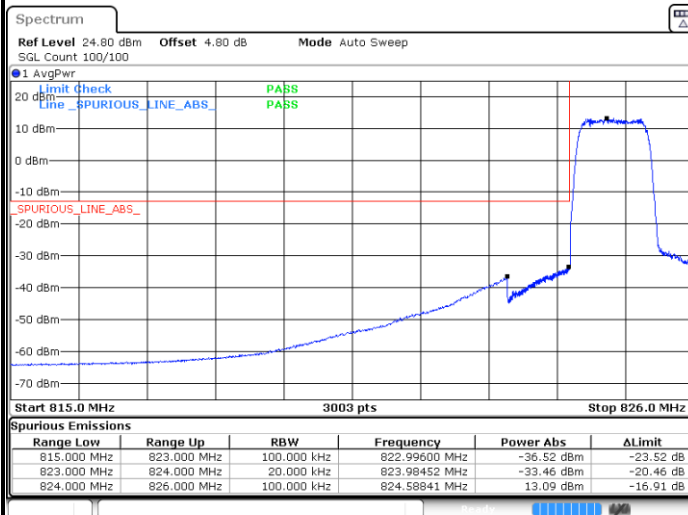
## Lowest Band Edge / 1 RB



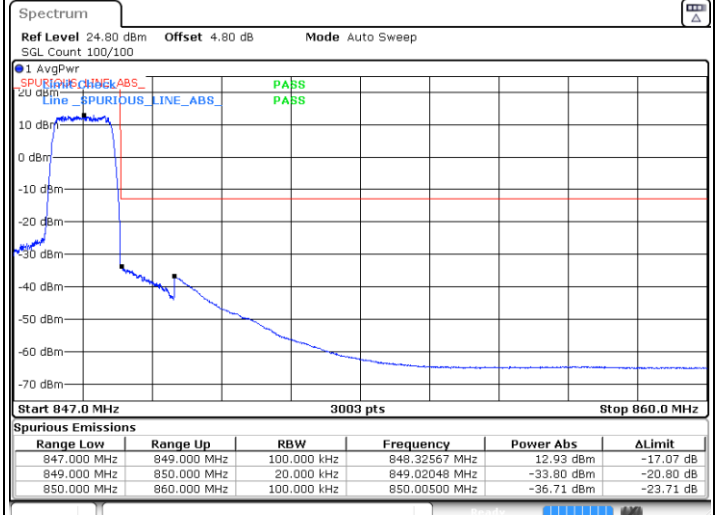
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



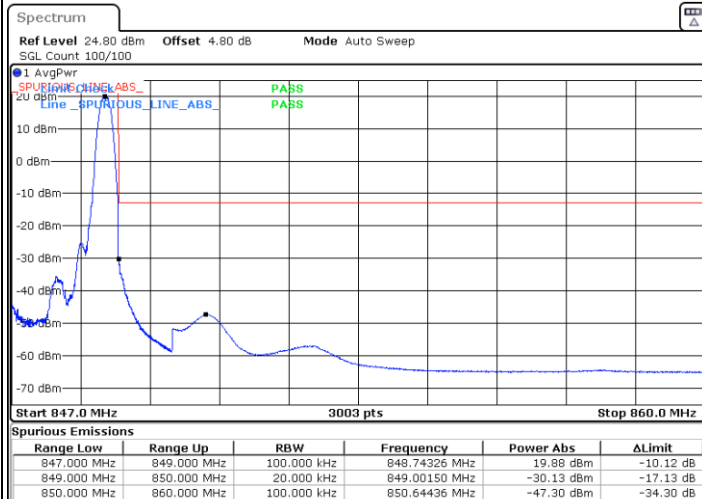


## LTE Band 5 / 1.4MHz / 64QAM

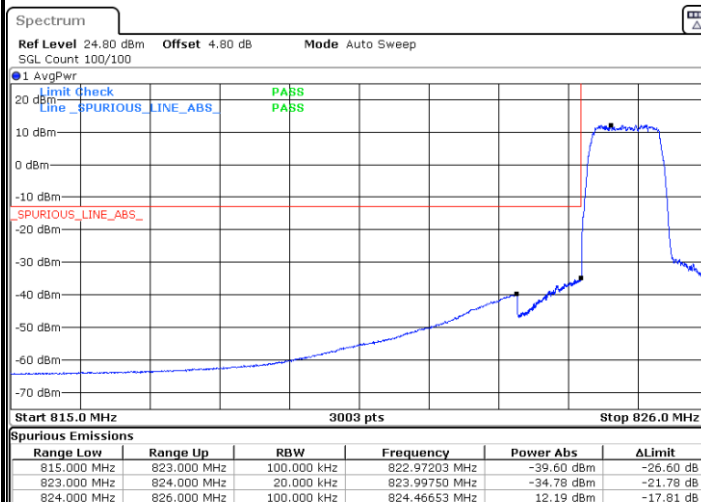
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



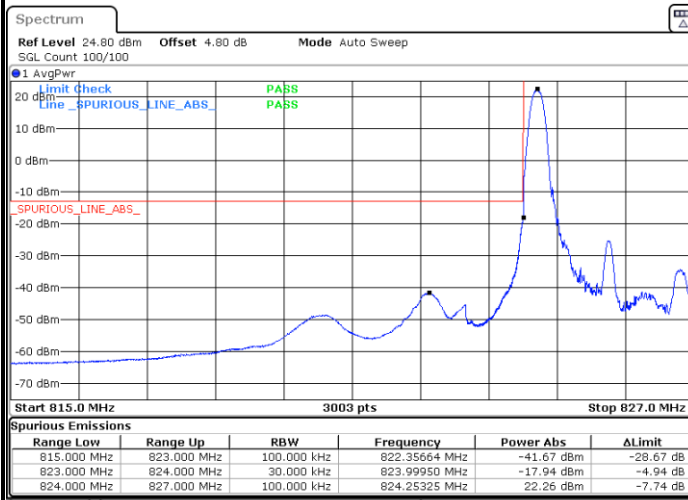
## Highest Band Edge / Full RB



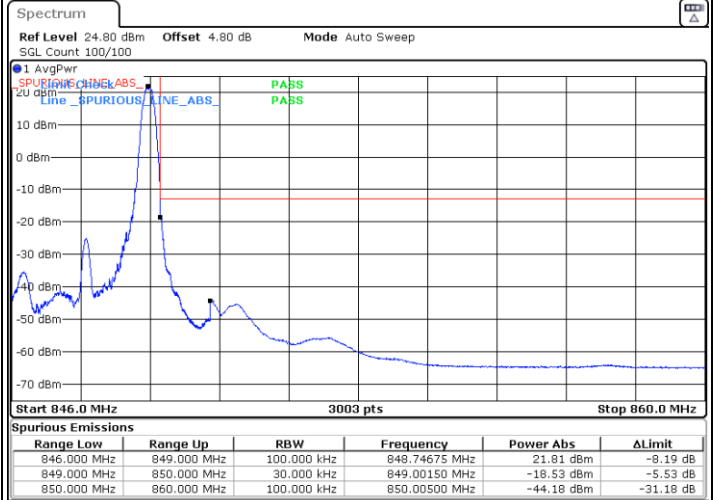


## LTE Band 5 / 3MHz / QPSK

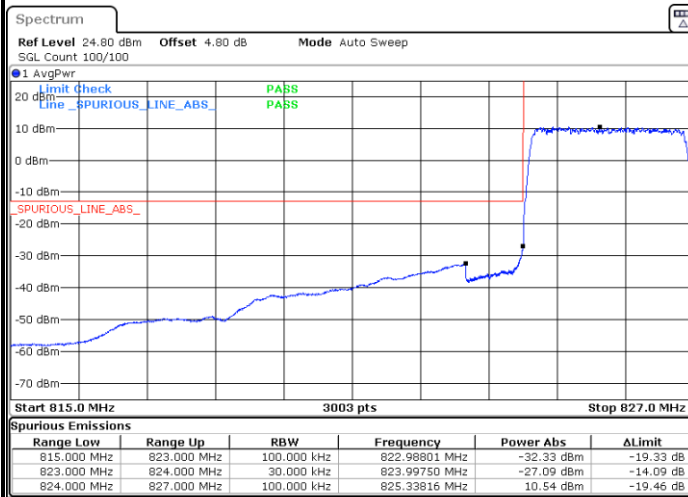
## Lowest Band Edge / 1RB



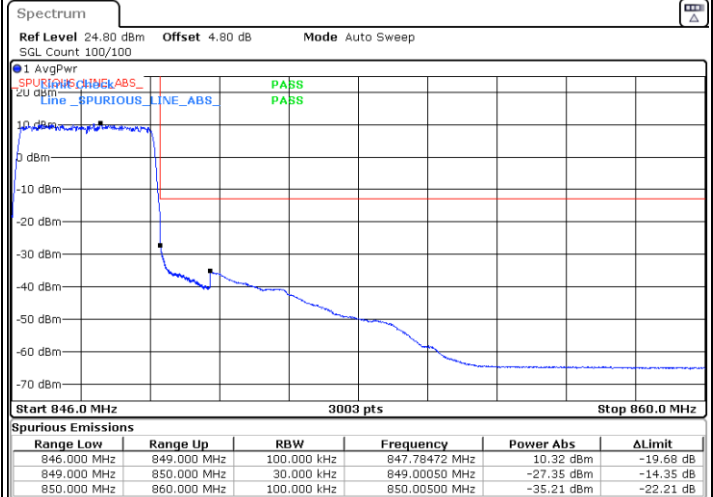
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



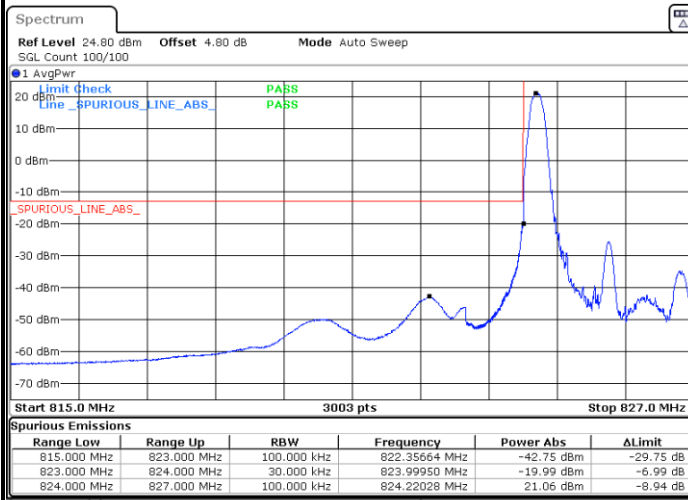
## Highest Band Edge / Full RB



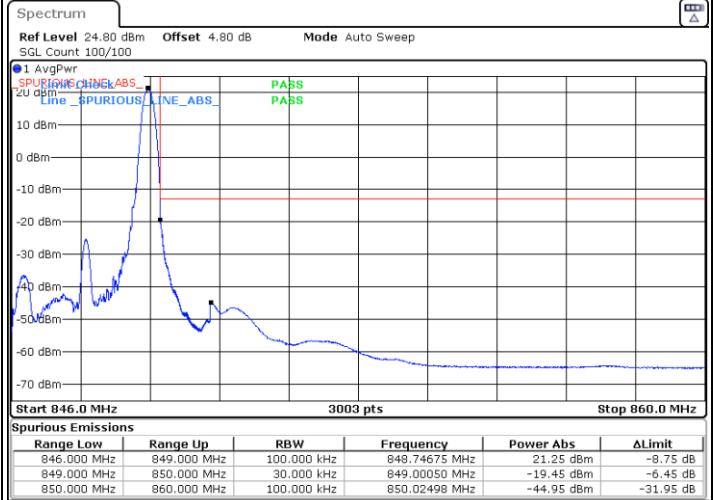


## LTE Band 5 / 3MHz / 16QAM

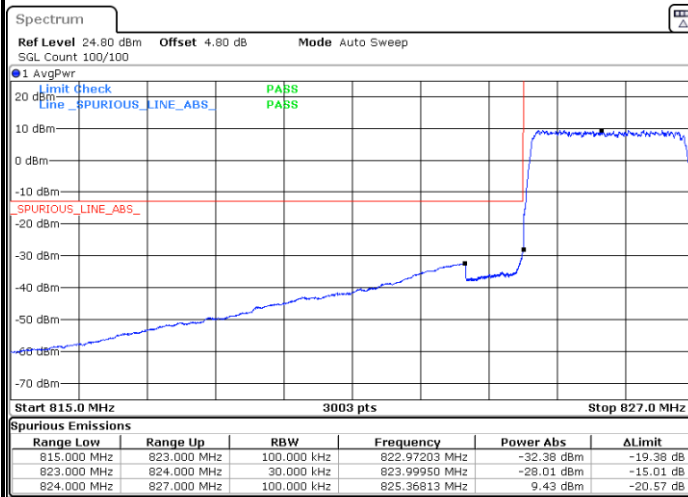
## Lowest Band Edge / 1 RB



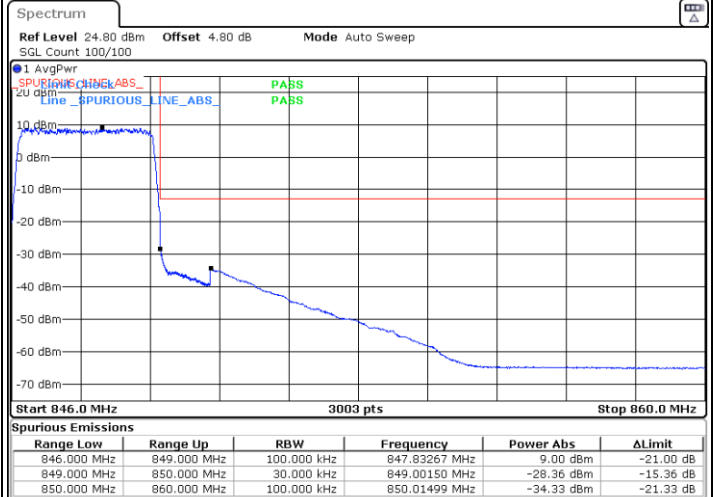
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



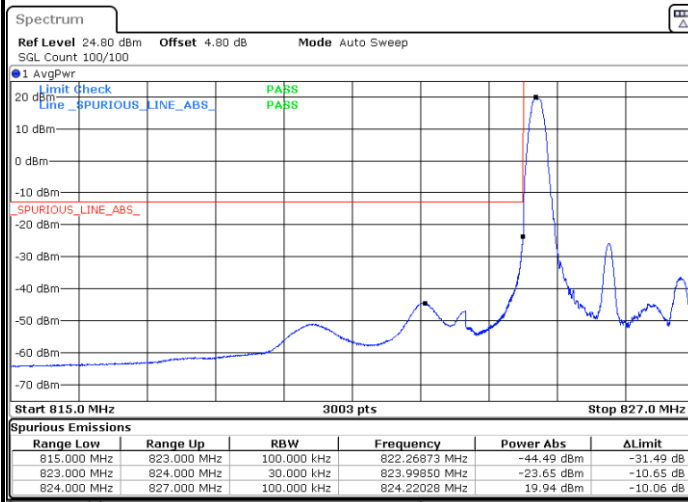
## Highest Band Edge / Full RB



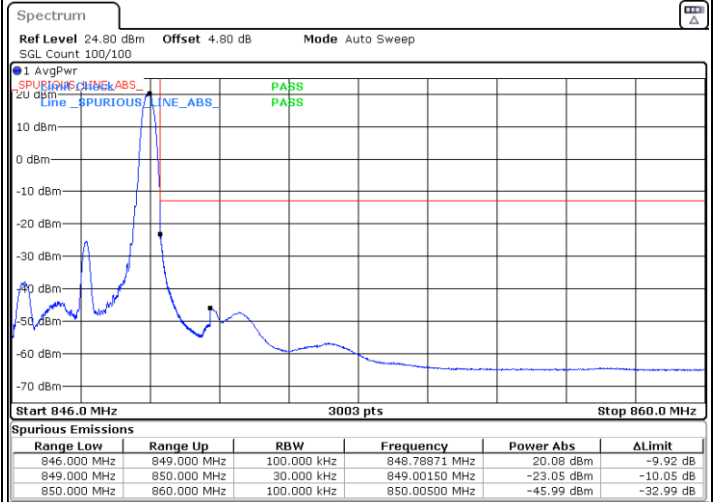


## LTE Band 5 / 3MHz / 64QAM

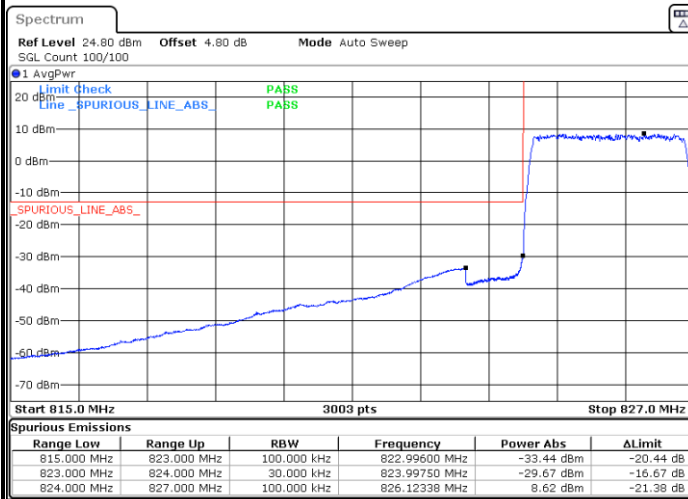
## Lowest Band Edge / 1 RB



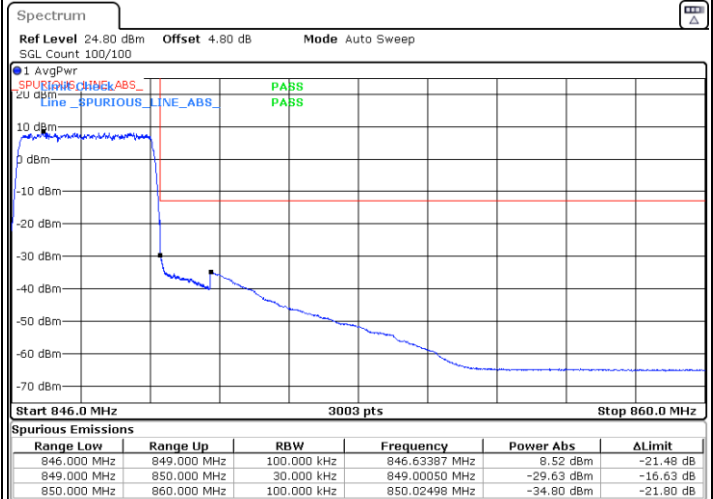
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



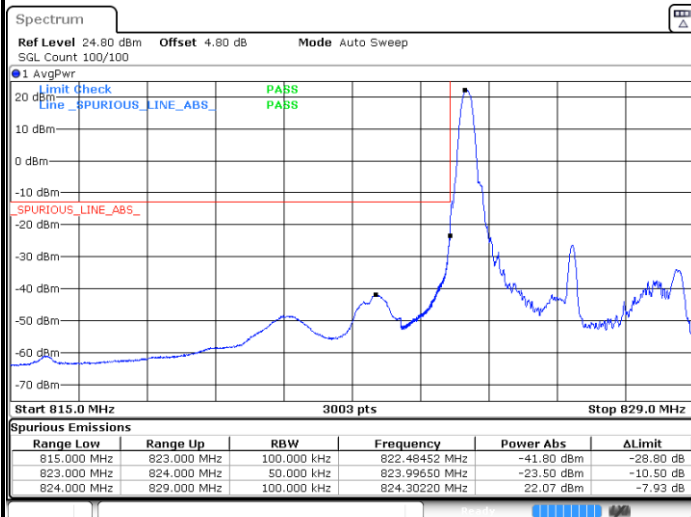
## Highest Band Edge / Full RB



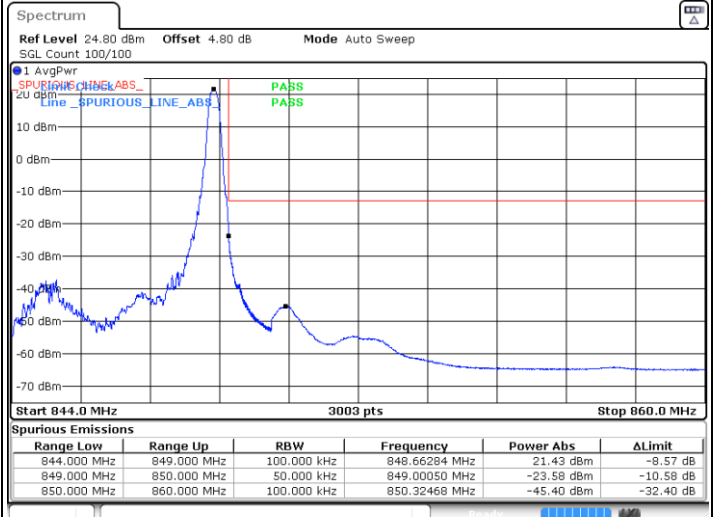


## LTE Band 5 / 5MHz / QPSK

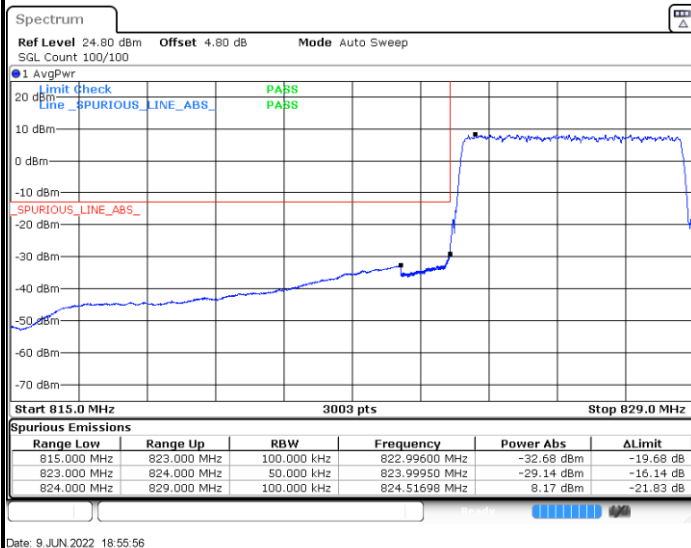
## Lowest Band Edge / 1 RB



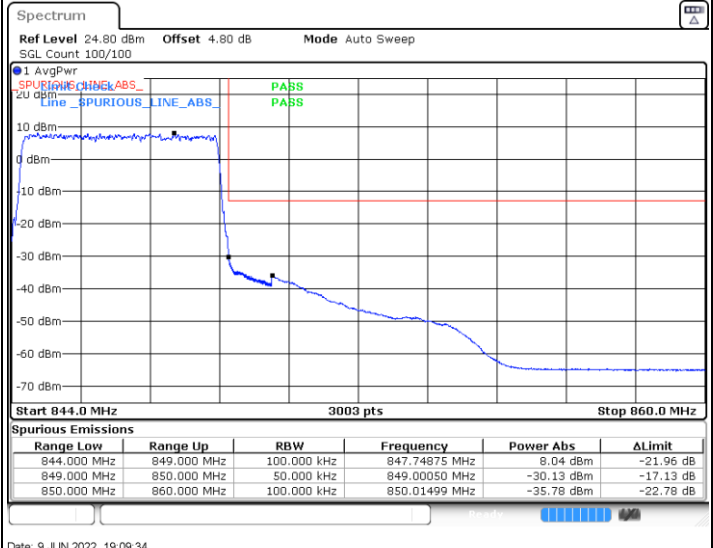
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



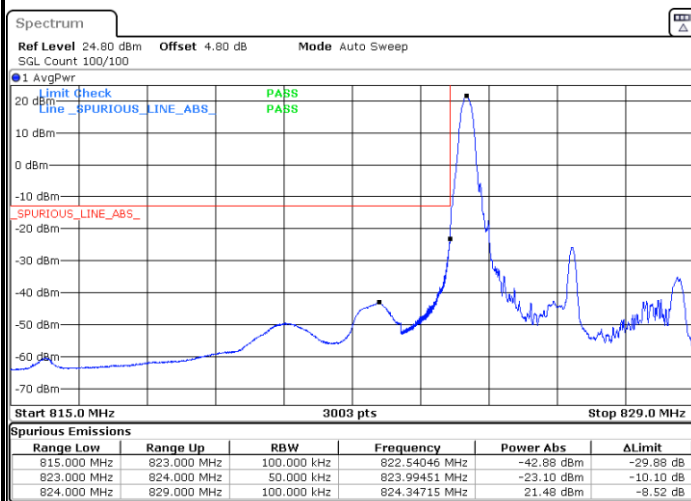
## Highest Band Edge / Full RB



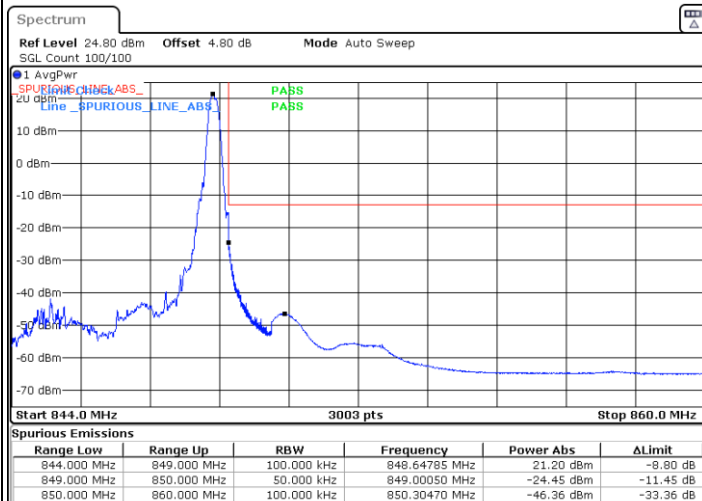


## LTE Band 5 / 5MHz / 16QAM

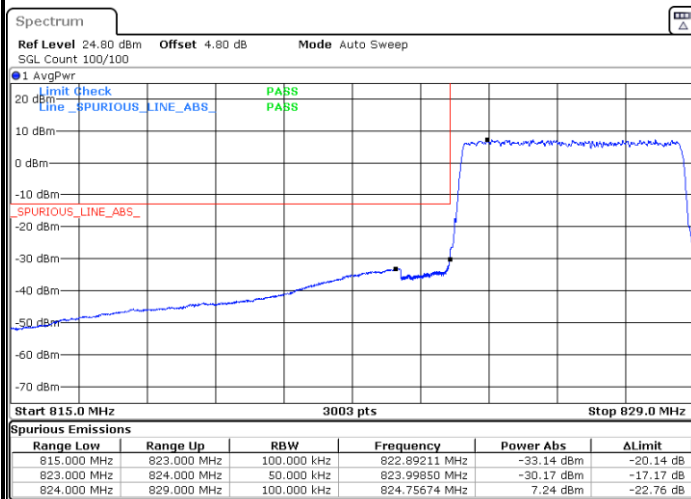
## Lowest Band Edge / 1RB



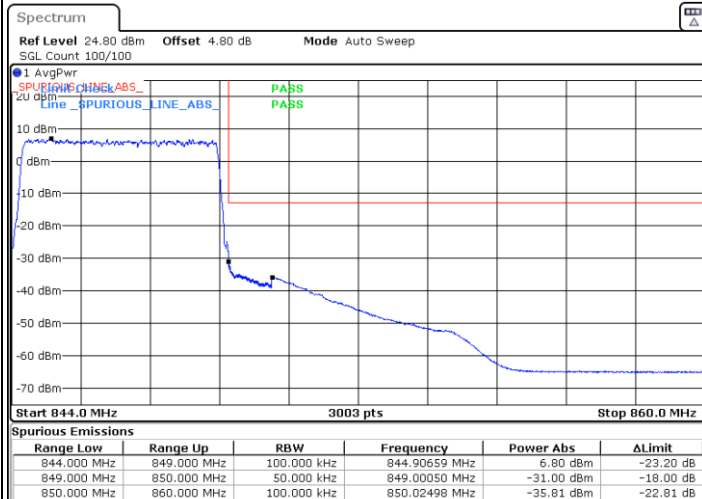
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



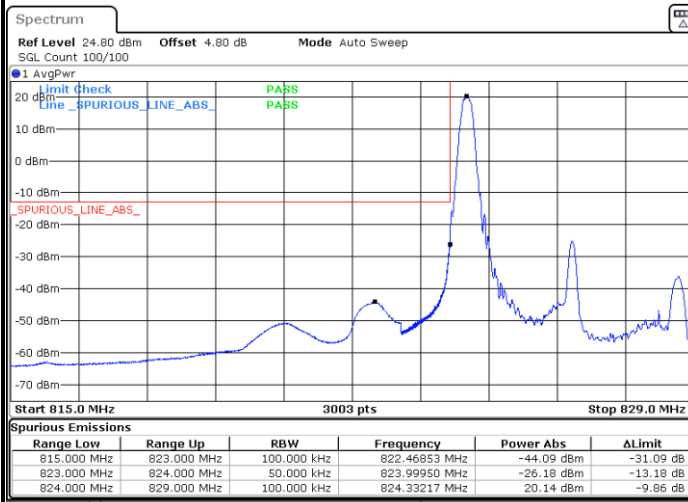
## Highest Band Edge / Full RB



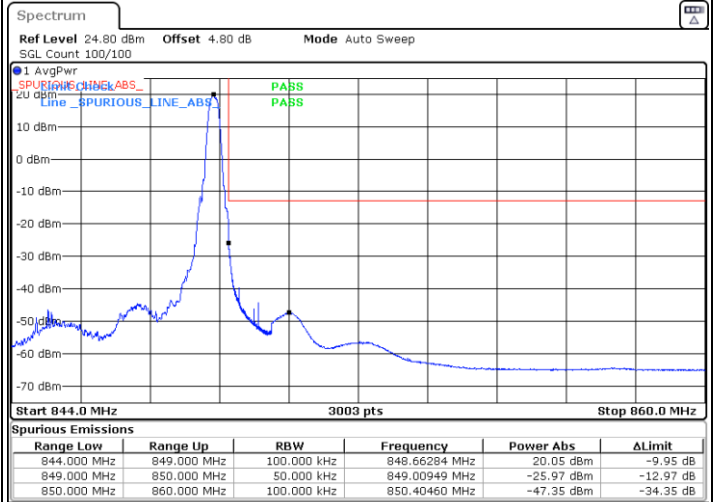


## LTE Band 5 / 5MHz / 64QAM

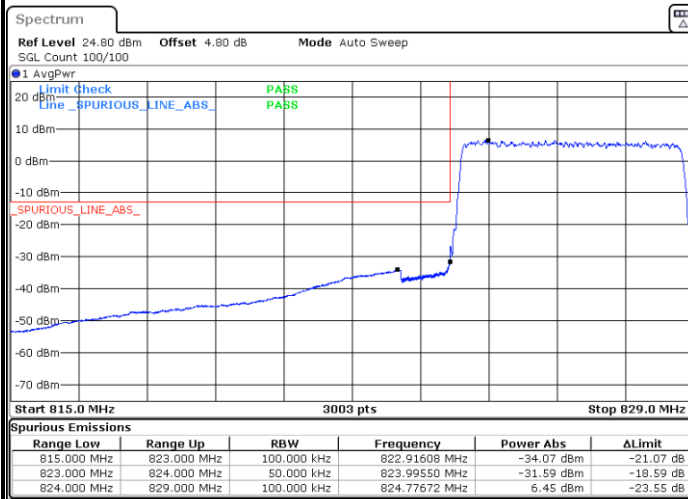
## Lowest Band Edge / 1RB



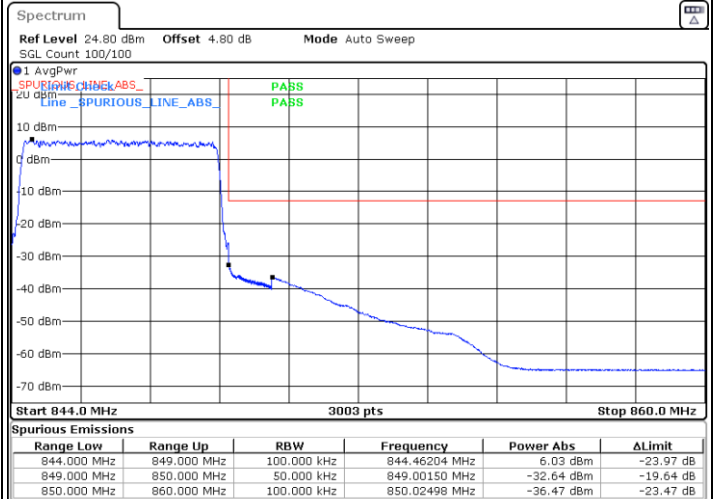
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



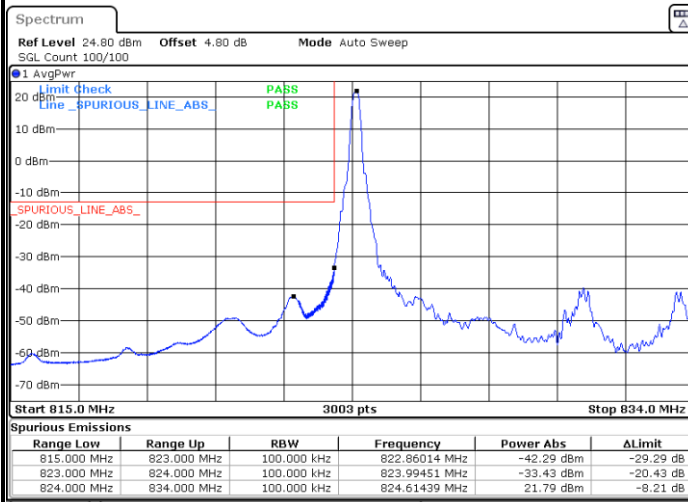
## Highest Band Edge / Full RB



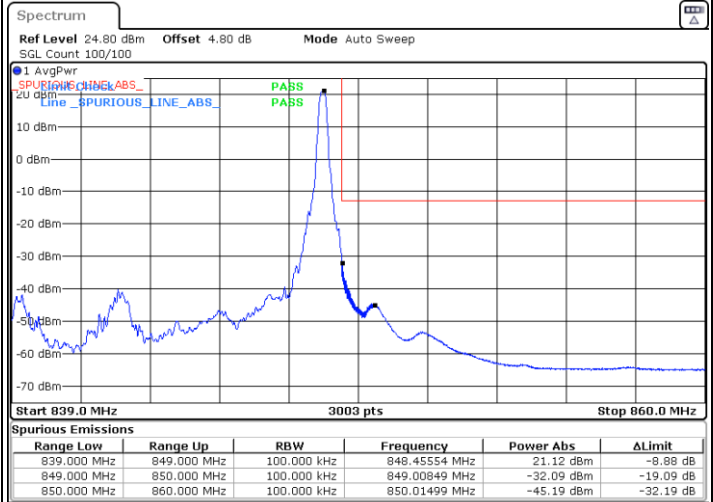


## LTE Band 5 / 10MHz / QPSK

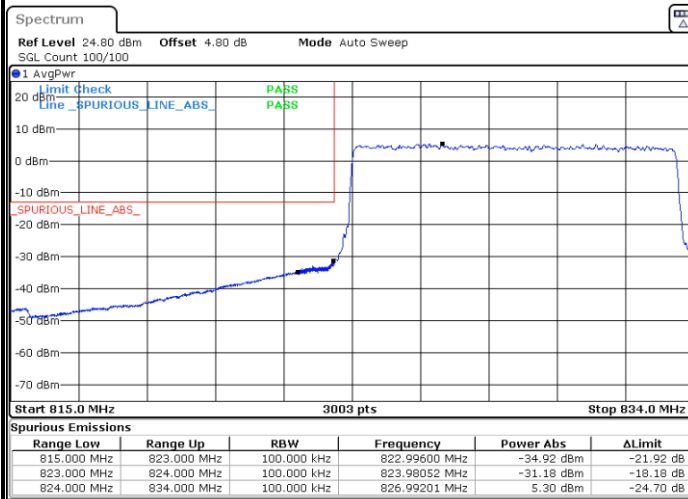
## Lowest Band Edge / 1 RB



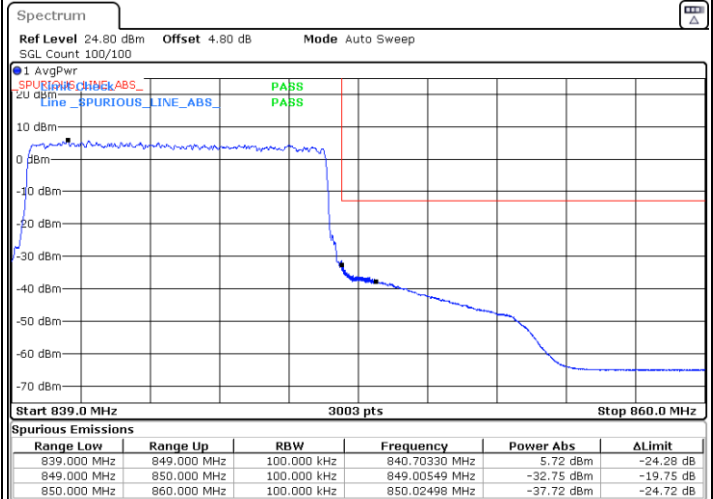
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



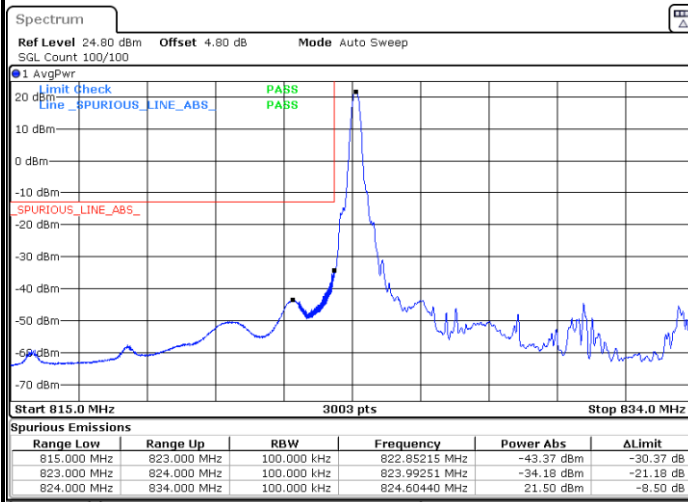
## Highest Band Edge / Full RB



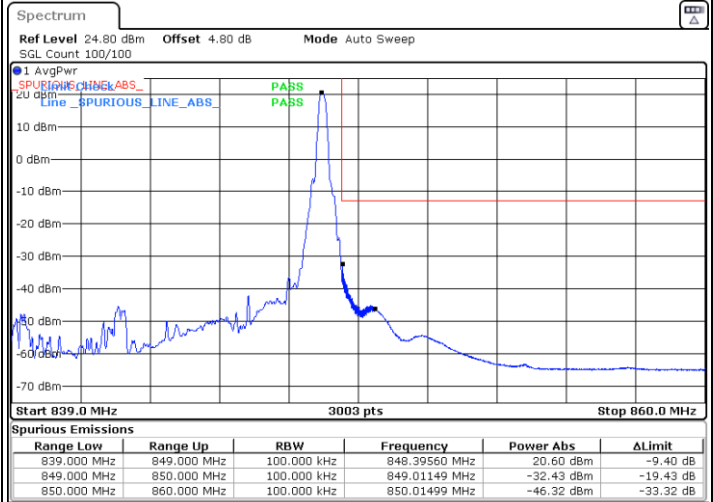


## LTE Band 5 / 10MHz / 16QAM

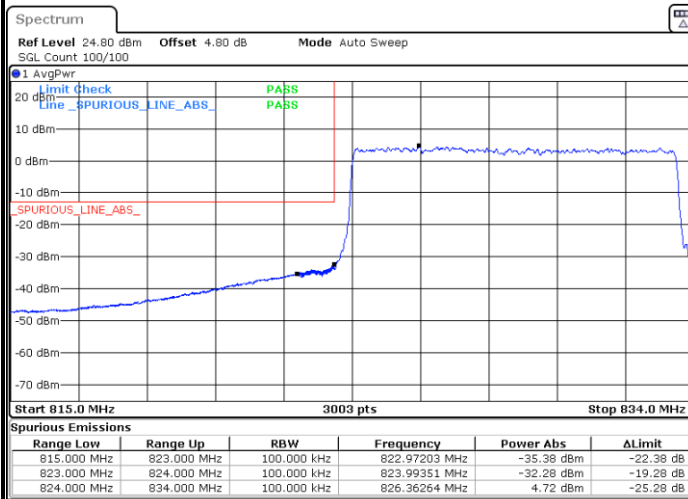
## Lowest Band Edge / 1 RB



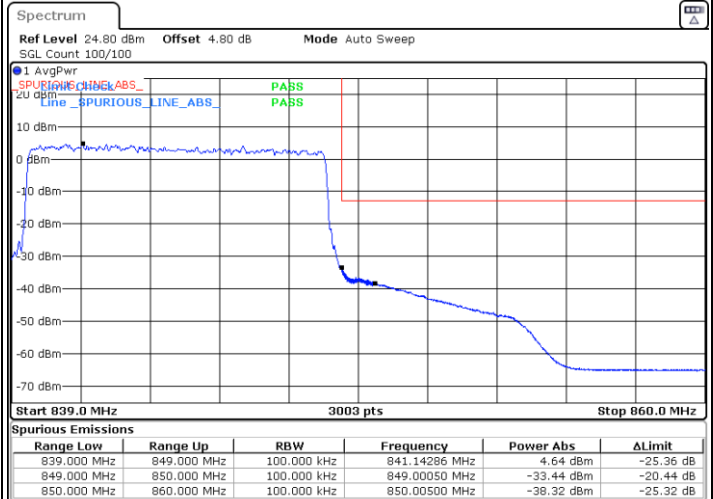
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



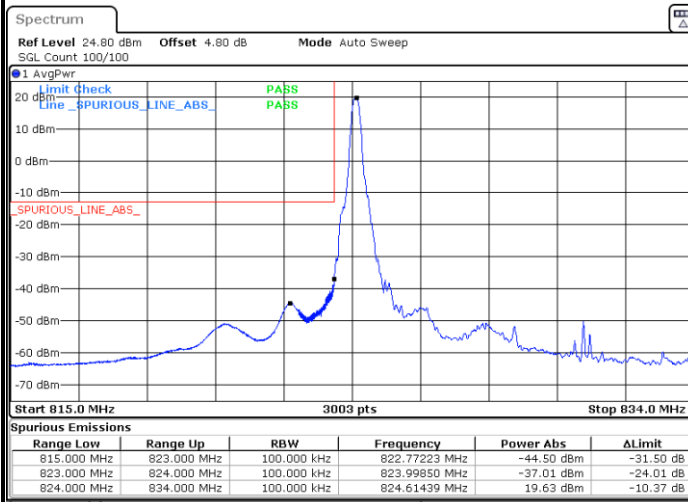
## Highest Band Edge / Full RB



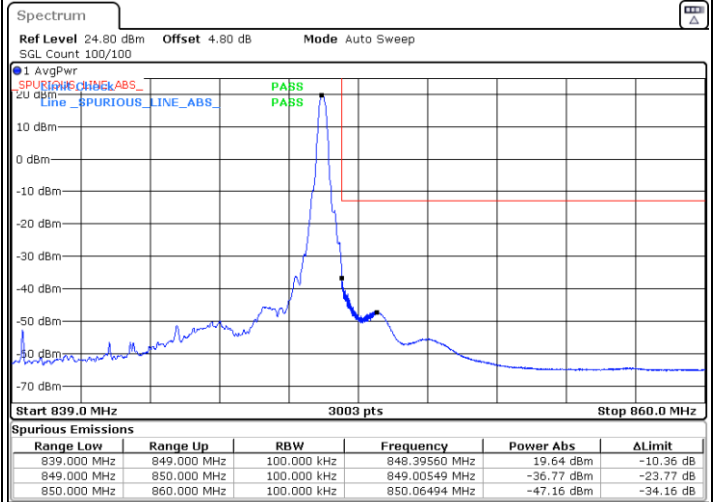


## LTE Band 5 / 10MHz / 64QAM

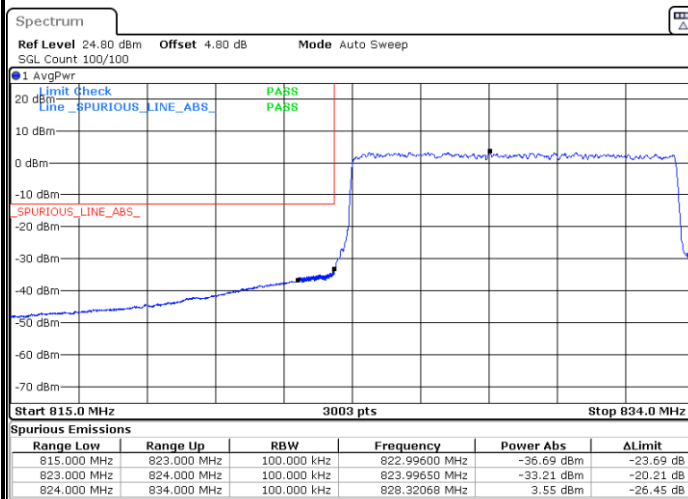
## Lowest Band Edge / 1 RB



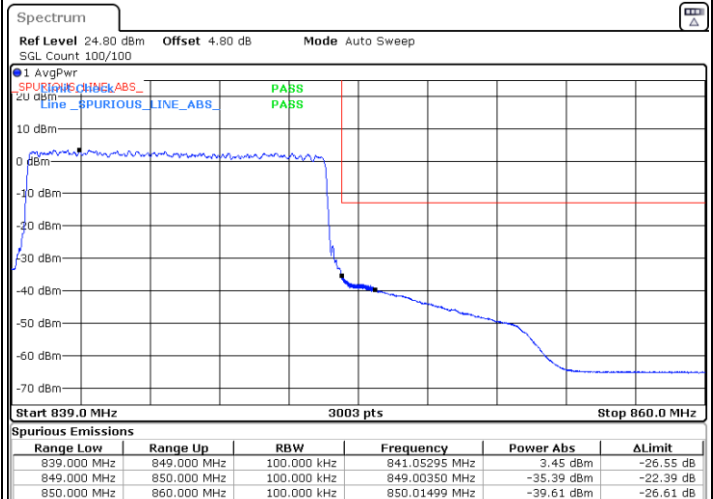
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

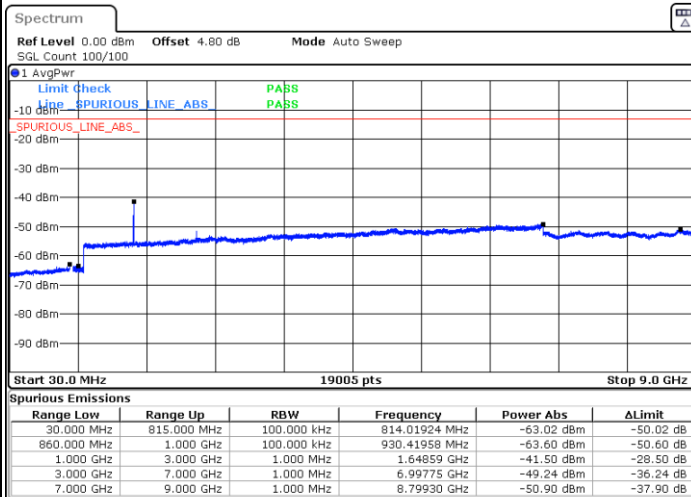




## Conducted Spurious Emission

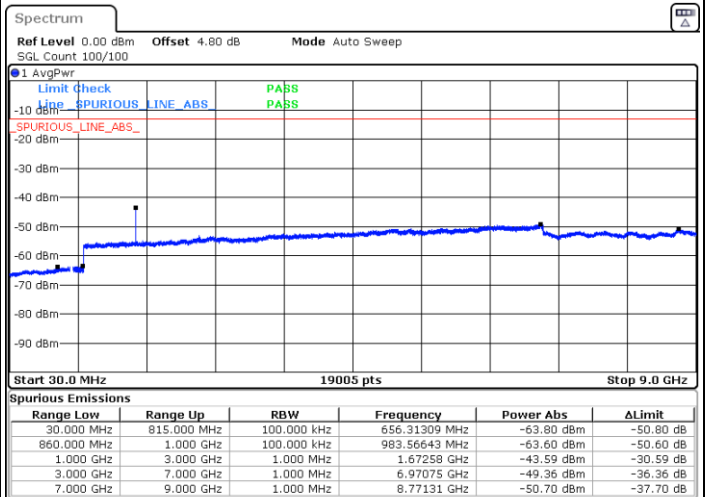
### LTE Band 5 / 1.4MHz

#### Lowest Channel / QPSK



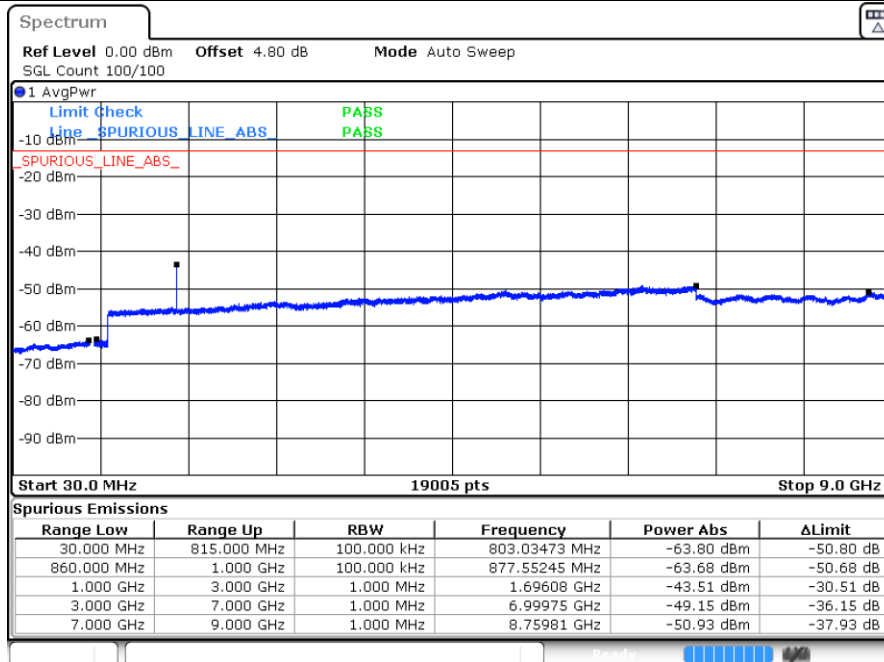
Date: 9 JUN.2022 17:56:37

#### Middle Channel / QPSK



Date: 9 JUN.2022 18:08:57

#### Highest Channel / QPSK

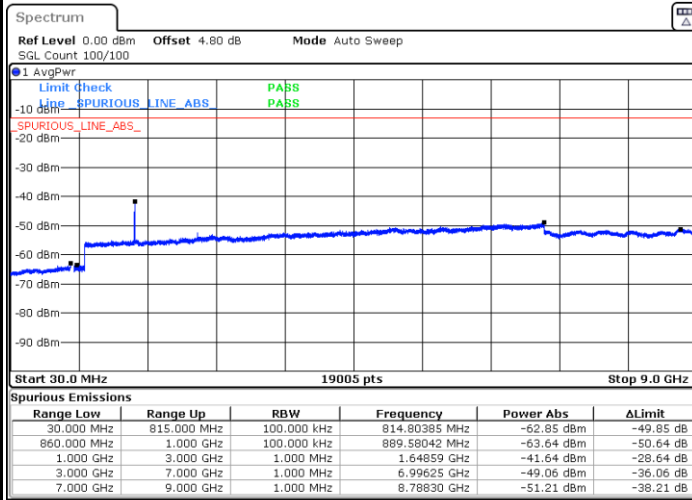


Date: 9 JUN.2022 18:10:17



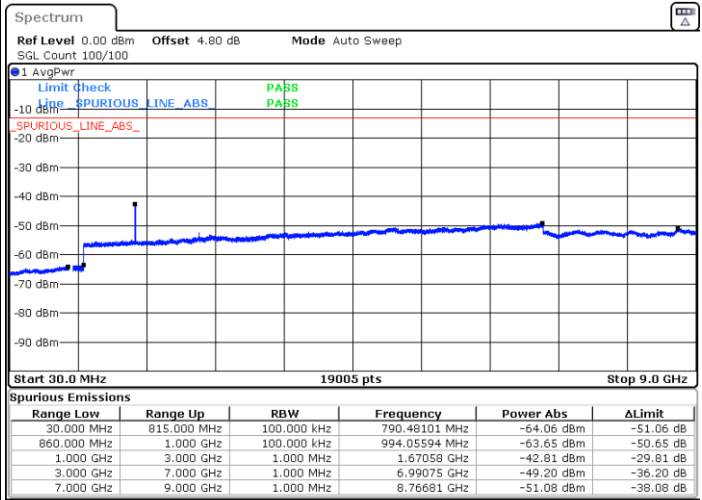
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



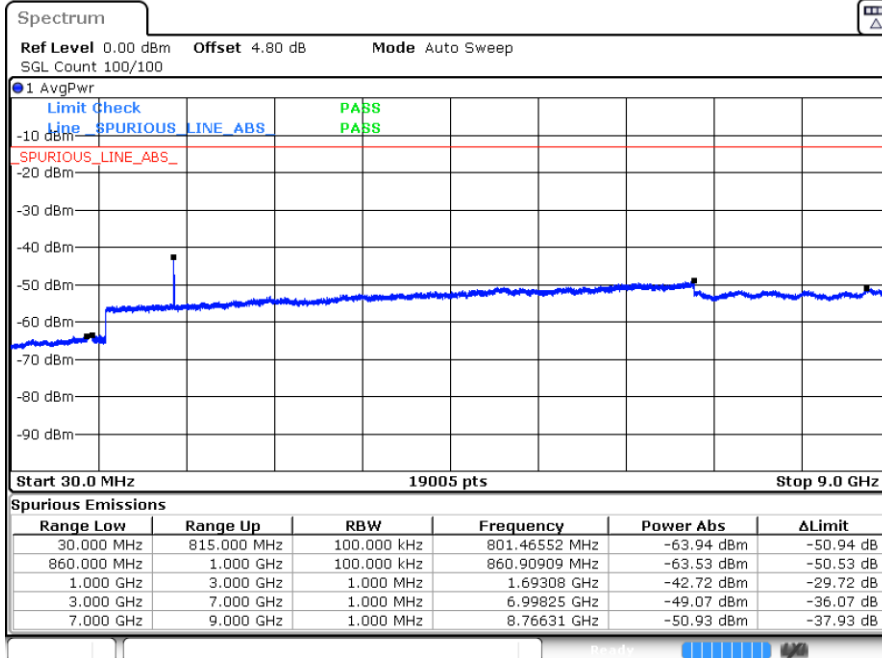
Date: 9 JUN 2022 18:22:37

## Middle Channel / QPSK



Date: 9 JUN 2022 18:34:56

## Highest Channel / QPSK

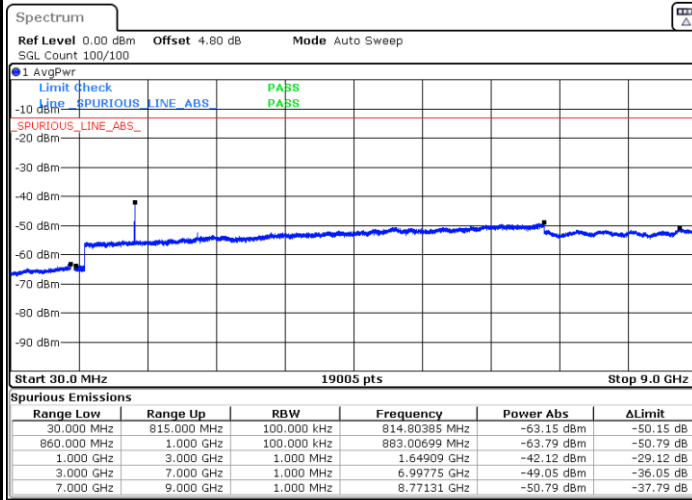


Date: 9 JUN 2022 18:36:16



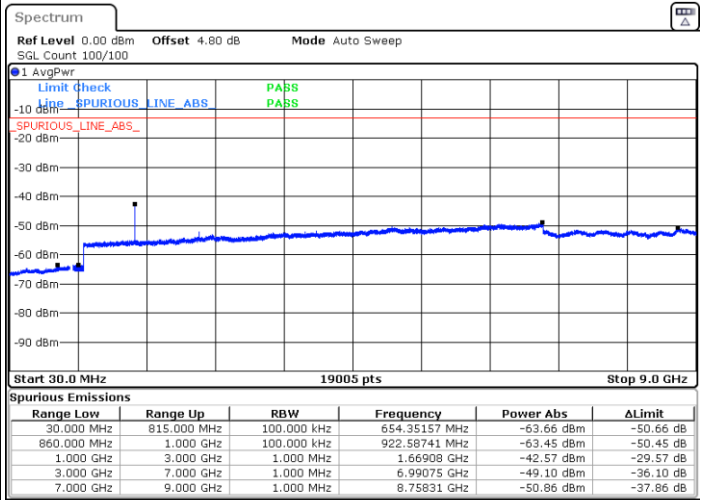
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



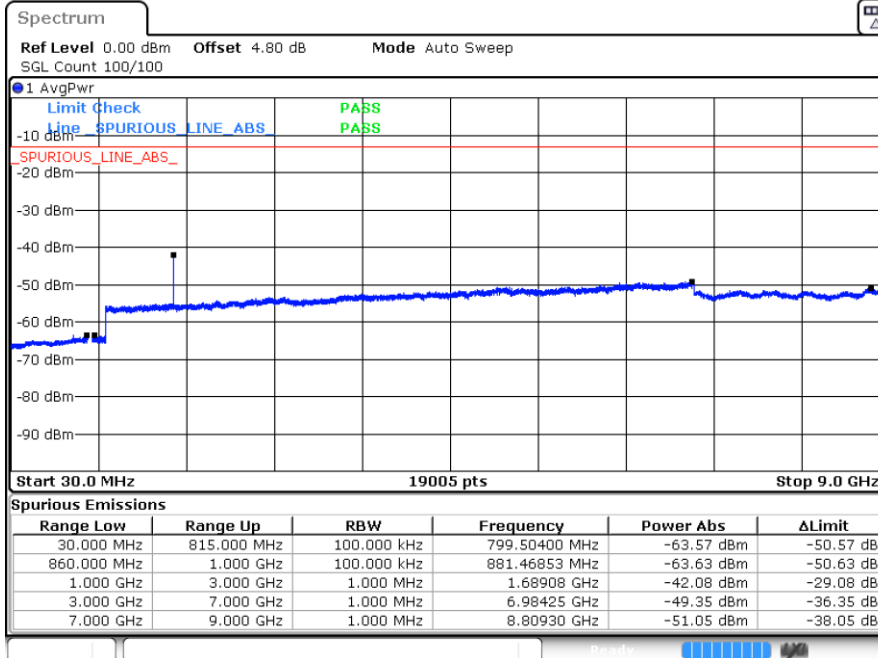
Date: 9 JUN 2022 18:48:36

## Middle Channel / QPSK



Date: 9 JUN 2022 19:00:55

## Highest Channel / QPSK

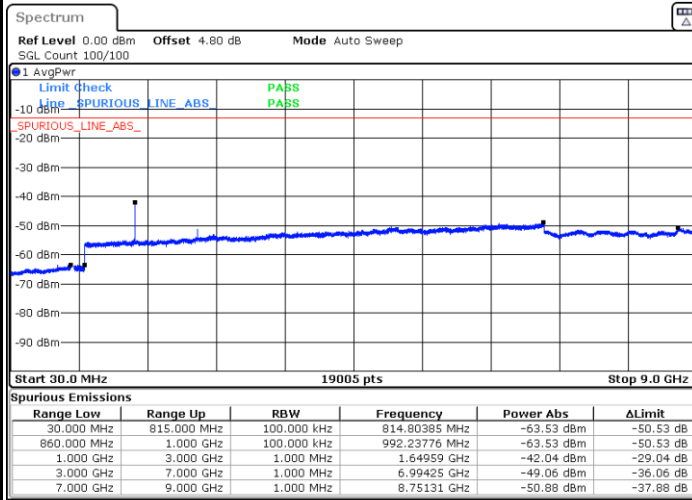


Date: 9 JUN 2022 19:02:15



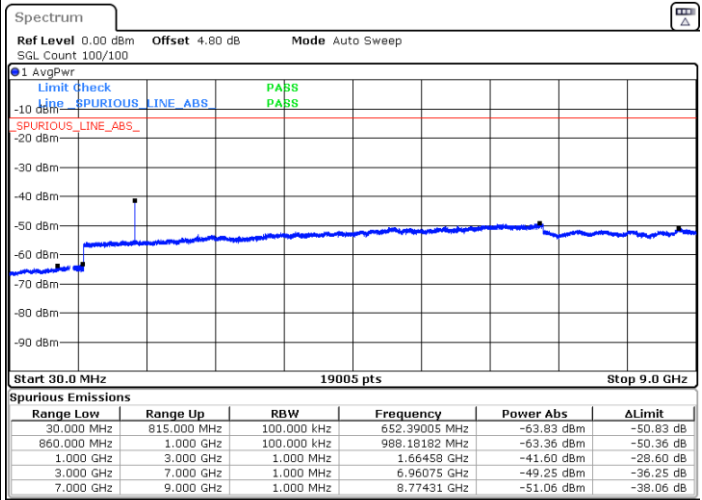
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



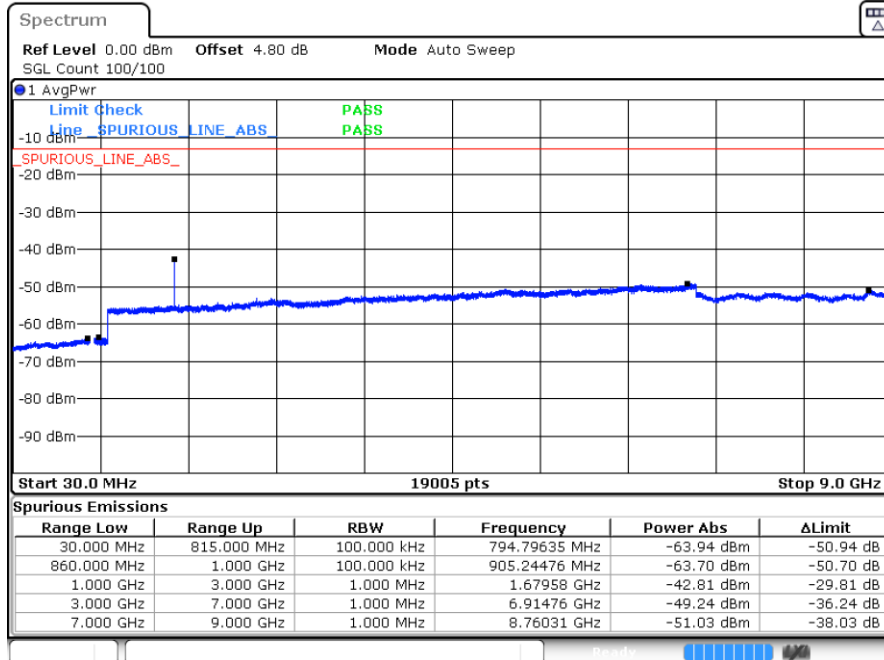
Date: 9 JUN 2022 19:14:35

## Middle Channel / QPSK



Date: 9 JUN 2022 19:26:54

## Highest Channel / QPSK



Date: 9 JUN 2022 19:28:14

## Frequency Stability

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0015                             | PASS    |
| 40               | Normal Voltage    | 0.0006                             |         |
| 30               | Normal Voltage    | 0.0012                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0006                             |         |
| 0                | Normal Voltage    | 0.0031                             |         |
| -10              | Normal Voltage    | 0.0022                             |         |
| -20              | Normal Voltage    | 0.0004                             |         |
| -30              | Normal Voltage    | 0.0014                             |         |
| 20               | Maximum Voltage   | 0.0022                             |         |
| 20               | Normal Voltage    | 0.0009                             |         |
| 20               | Battery End Point | 0.0006                             |         |

**Note:**

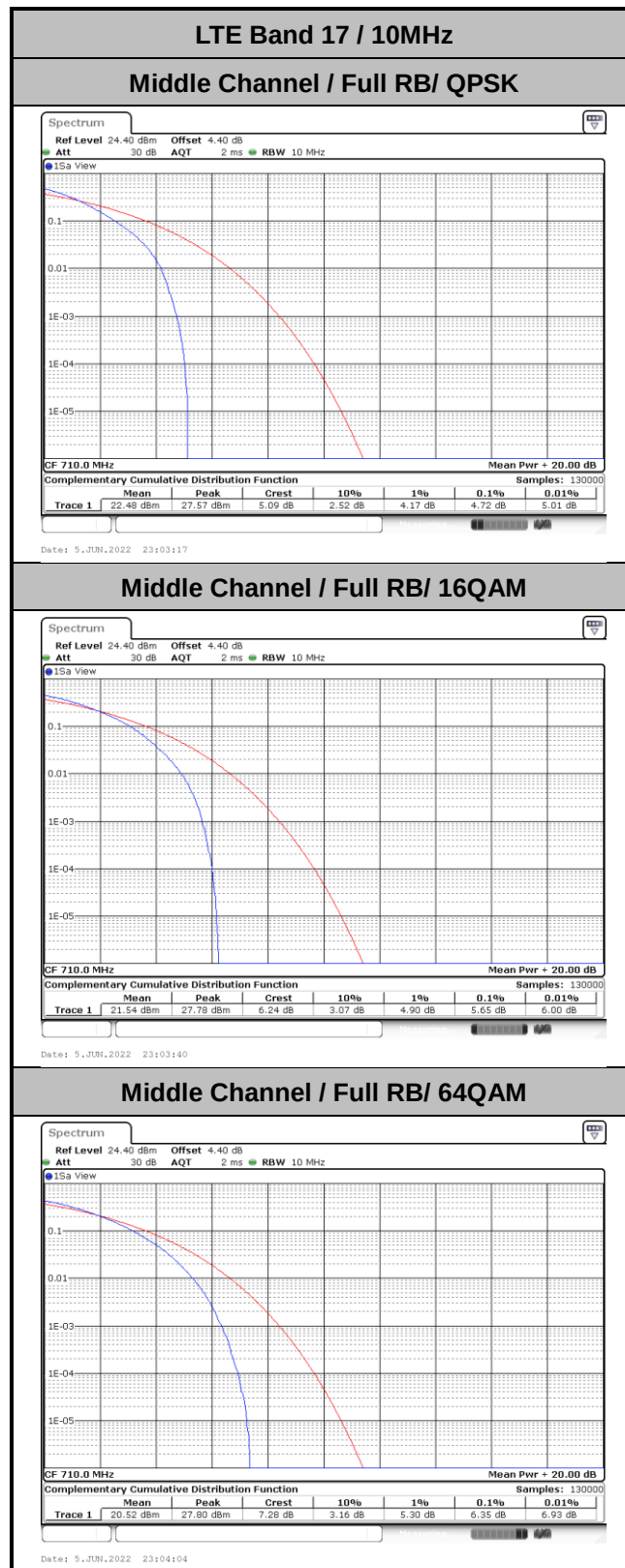
1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 17

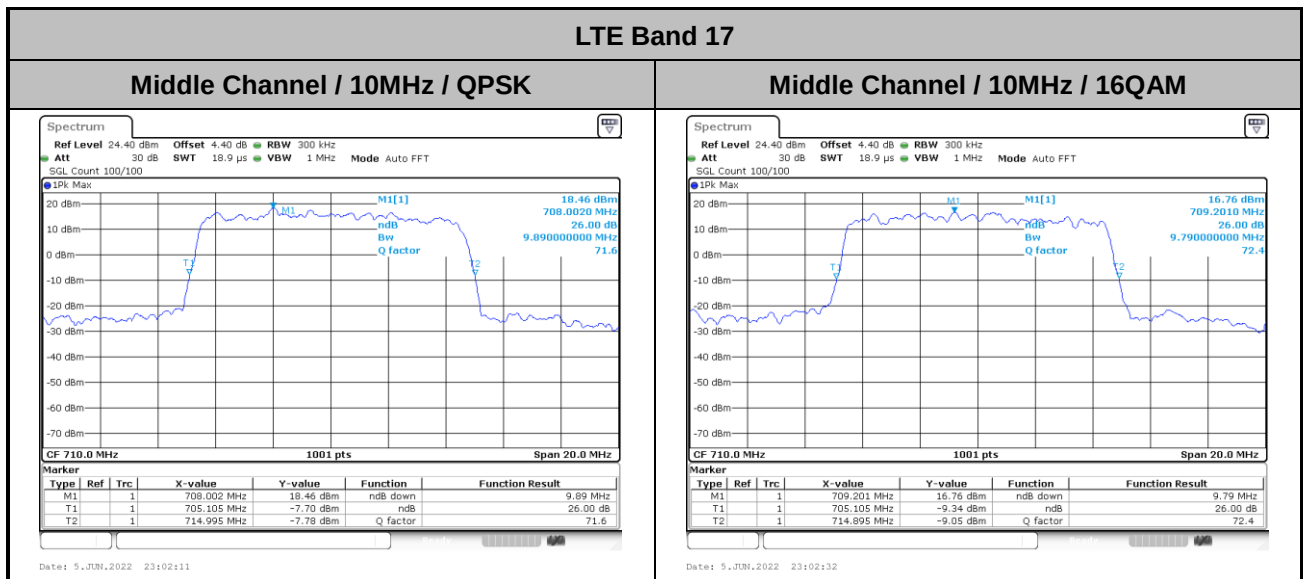
### Peak-to-Average Ratio

| Mode      | LTE Band 17 / 10MHz |         |         |             |
|-----------|---------------------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Result      |
| Middle CH | 4.72                | 5.65    | 6.35    | PASS        |



**26dB Bandwidth**

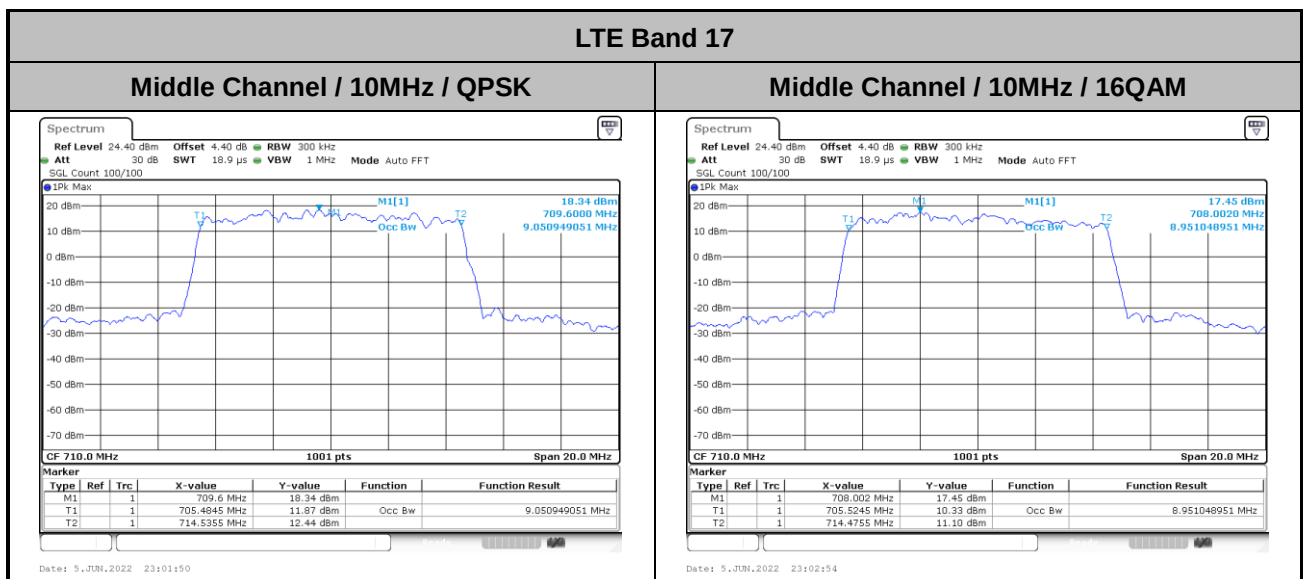
| Mode      | LTE Band 17 : 26dB BW(MHz) |       |
|-----------|----------------------------|-------|
| BW        | 10MHz                      |       |
| Mod.      | QPSK                       | 16QAM |
| Middle CH | 9.89                       | 9.79  |





## Occupied Bandwidth

| Mode      | LTE Band 17 : 99%OBW(MHz) |       |
|-----------|---------------------------|-------|
| BW        | 10MHz                     |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 9.05                      | 8.95  |

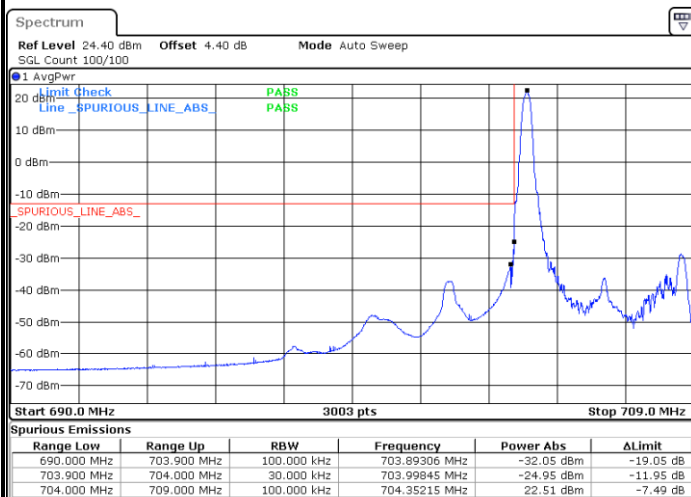




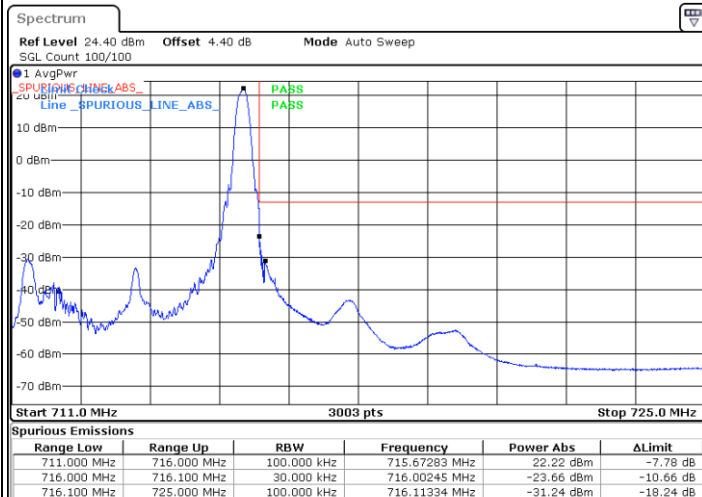
# Conducted Band Edge

## LTE Band 17 / 5MHz / QPSK

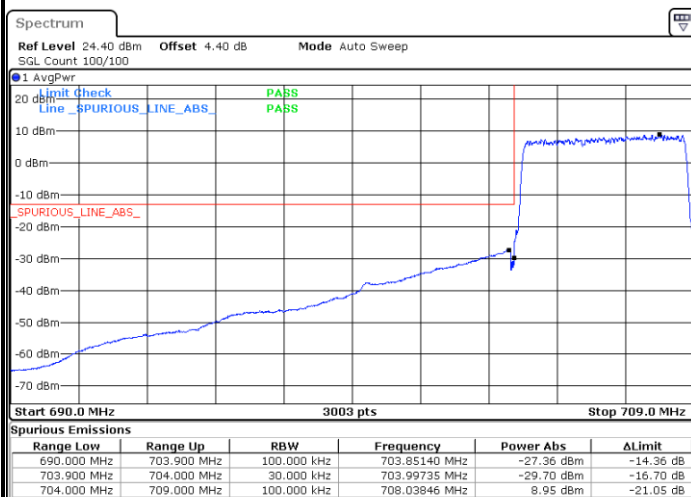
### Lowest Band Edge / 1 RB



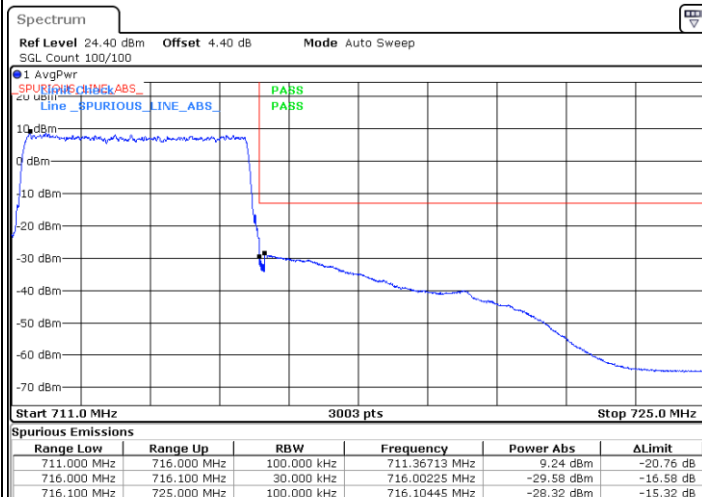
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



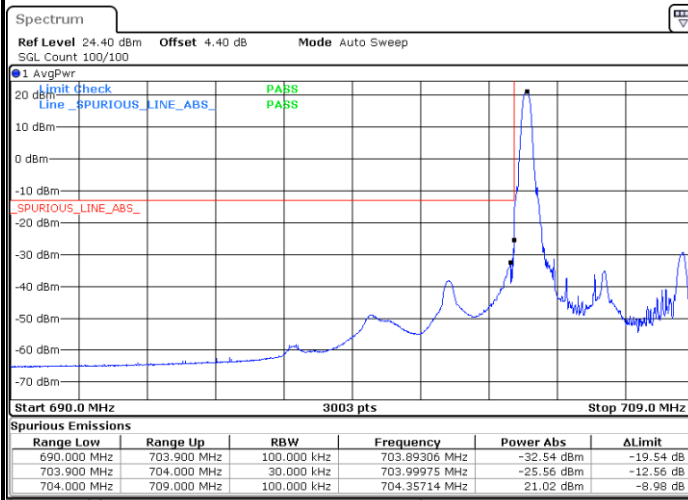
### Highest Band Edge / Full RB



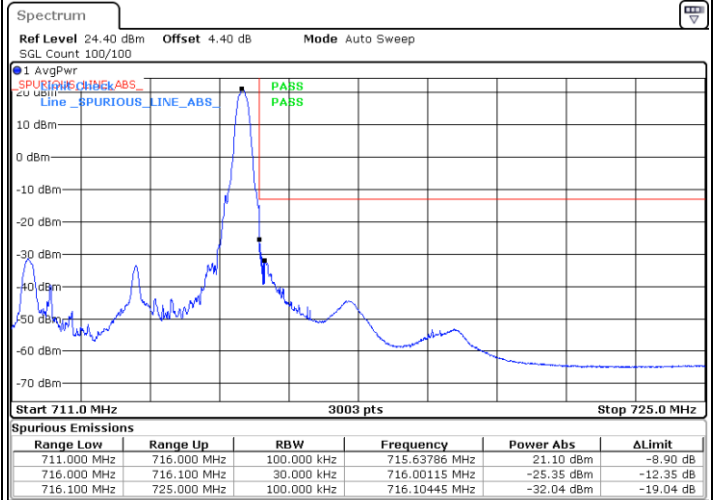


## LTE Band 17 / 5MHz / 16QAM

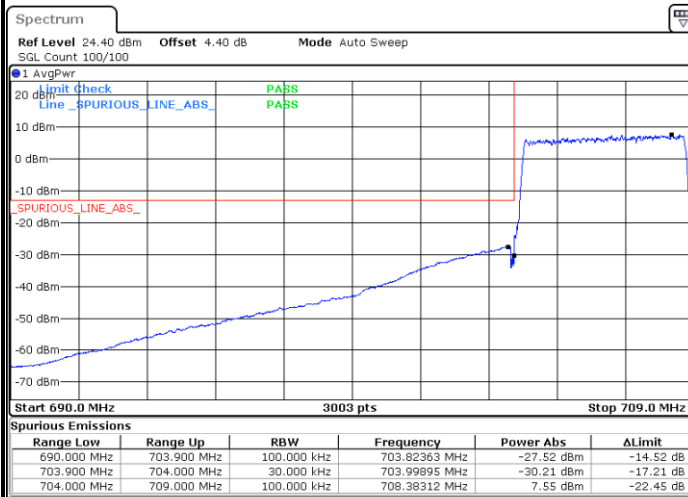
## Lowest Band Edge / 1 RB



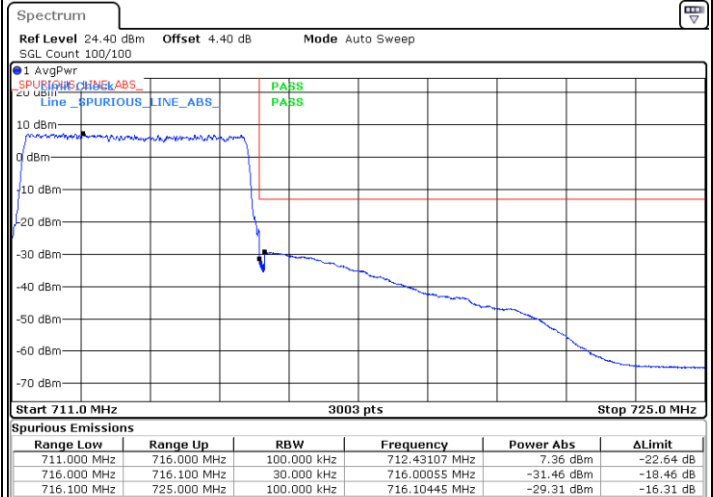
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



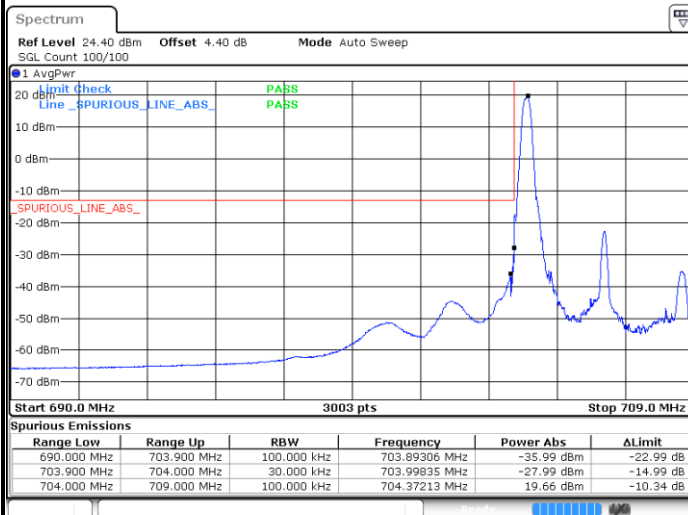
## Highest Band Edge / Full RB



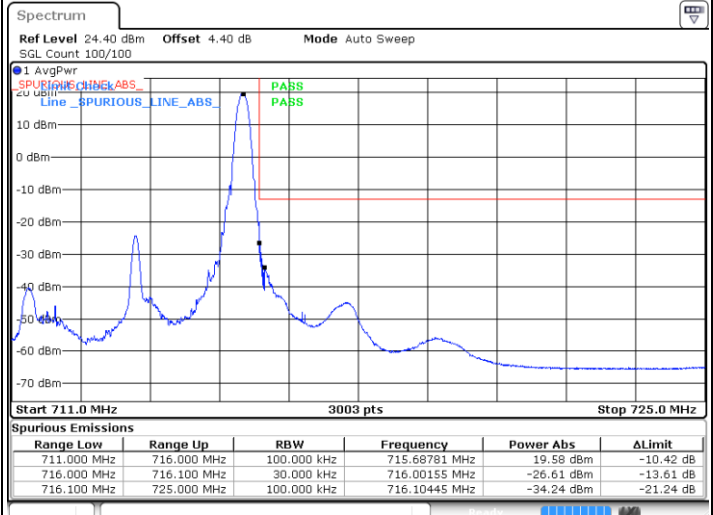


## LTE Band 17 / 5MHz / 64QAM

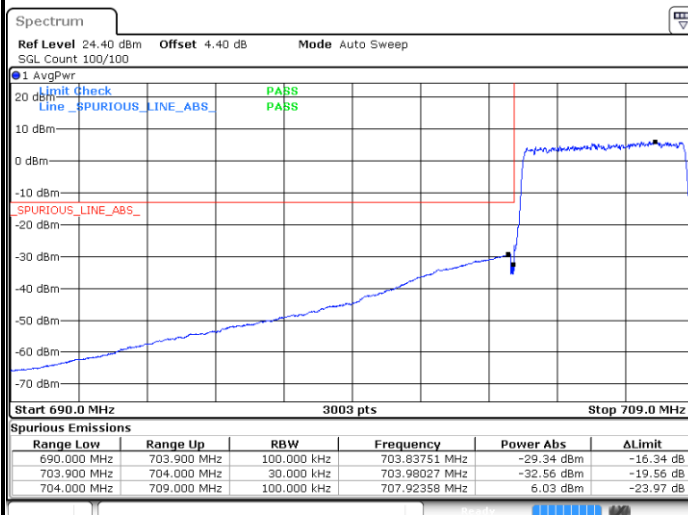
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

