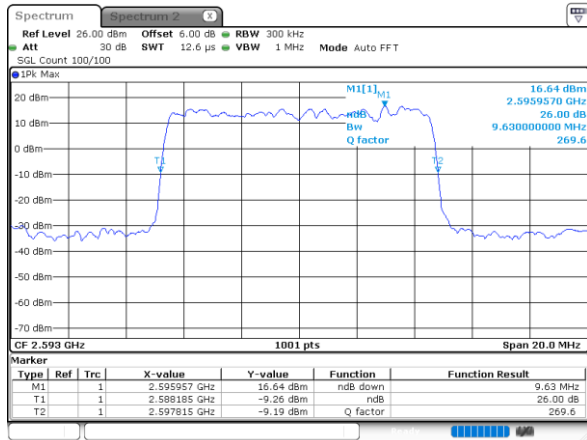


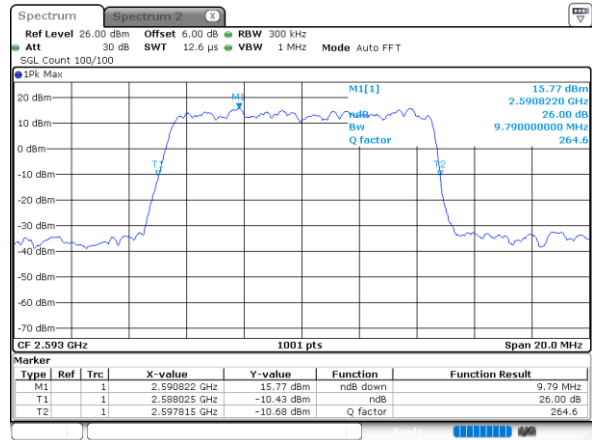


## LTE Band 41

## Middle Channel / 10MHz / QPSK

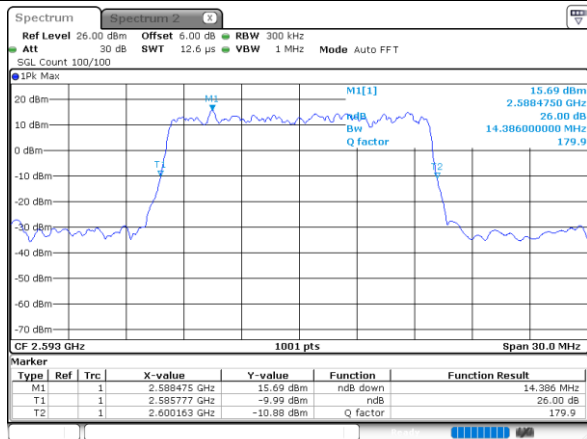


## Middle Channel / 10MHz / 16QAM

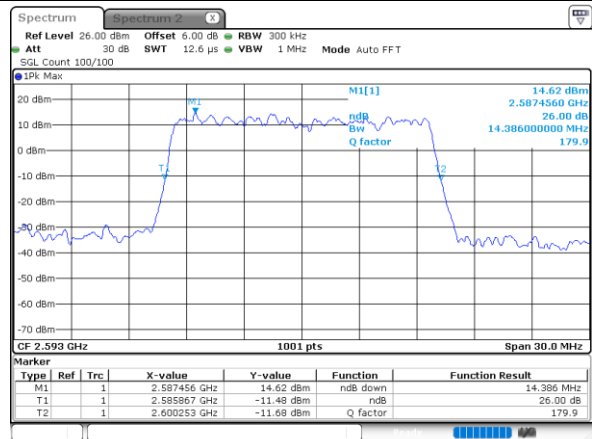


## LTE Band 41

## Middle Channel / 15MHz / QPSK

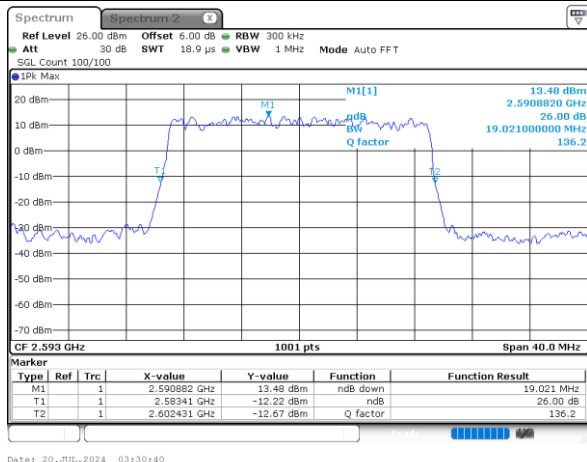


## Middle Channel / 15MHz / 16QAM

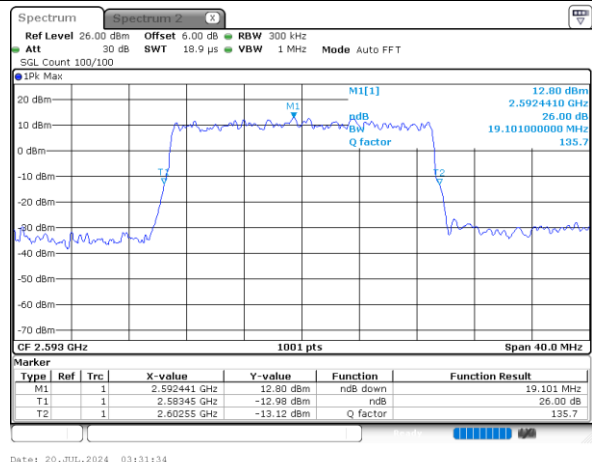


## LTE Band 41

## Middle Channel / 20MHz / QPSK



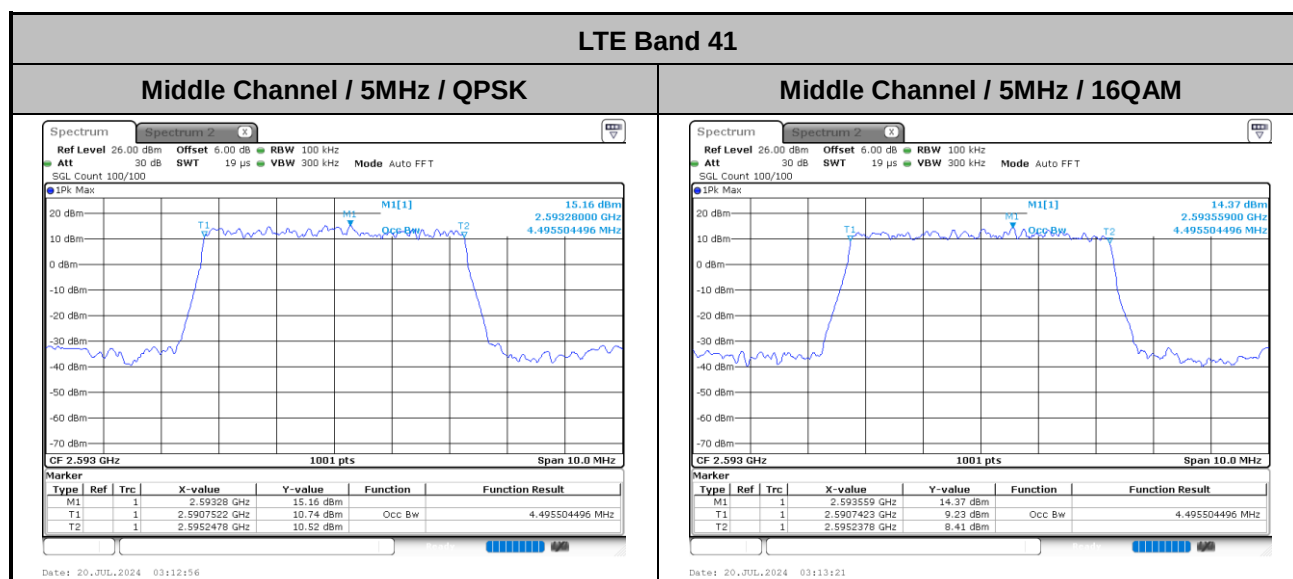
## Middle Channel / 20MHz / 16QAM





## Occupied Bandwidth

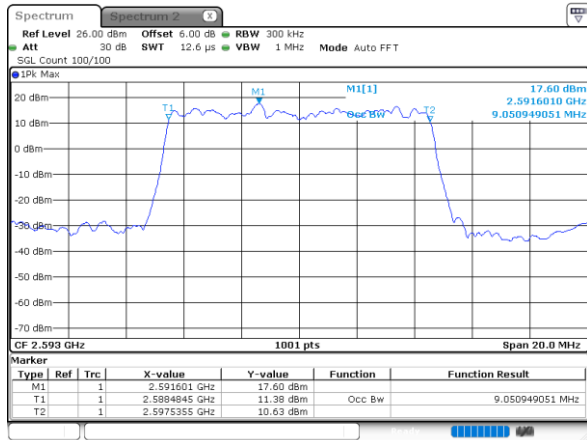
| Mode      | LTE Band 41 : 99%OBW(MHz) |       |
|-----------|---------------------------|-------|
| BW        | 5MHz                      |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 4.50                      | 4.50  |
| BW        | 10MHz                     |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 9.05                      | 9.09  |
| BW        | 15MHz                     |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 13.40                     | 13.46 |
| BW        | 20MHz                     |       |
| Mod.      | QPSK                      | 16QAM |
| Middle CH | 17.90                     | 17.94 |



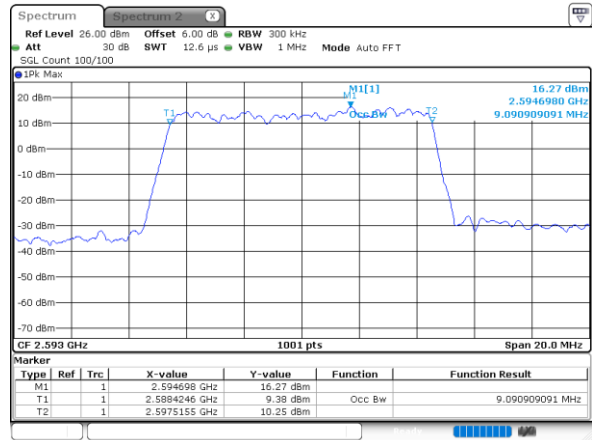


## LTE Band 41

## Middle Channel / 10MHz / QPSK

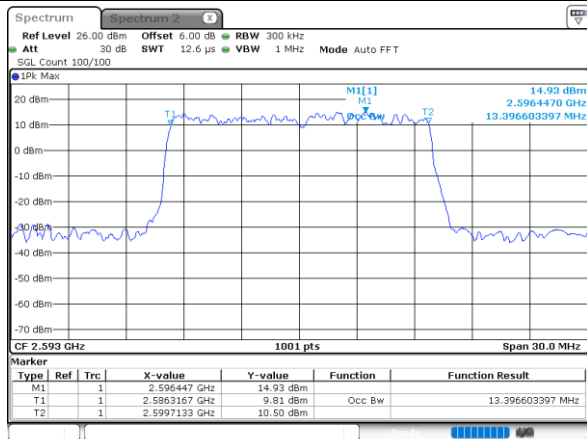


## Middle Channel / 10MHz / 16QAM

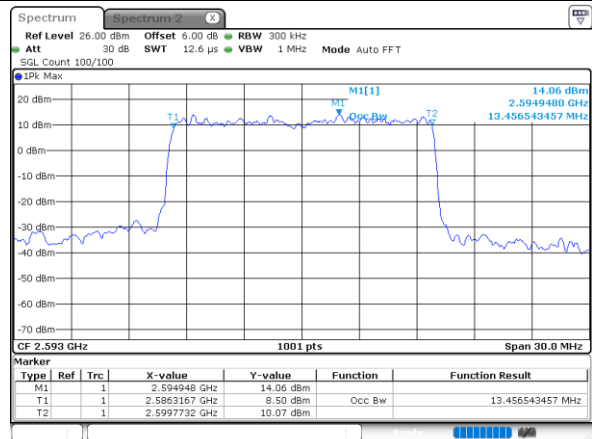


## LTE Band 41

## Middle Channel / 15MHz / QPSK

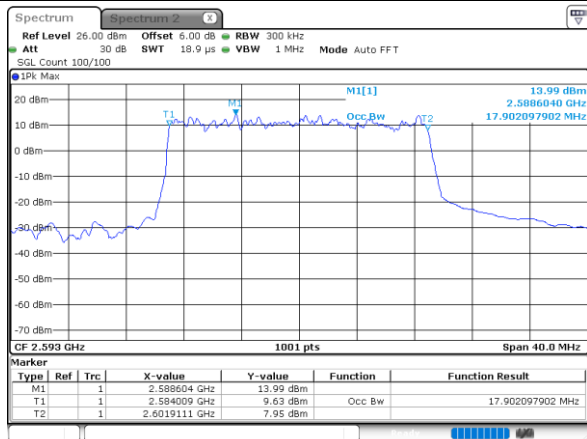


## Middle Channel / 15MHz / 16QAM

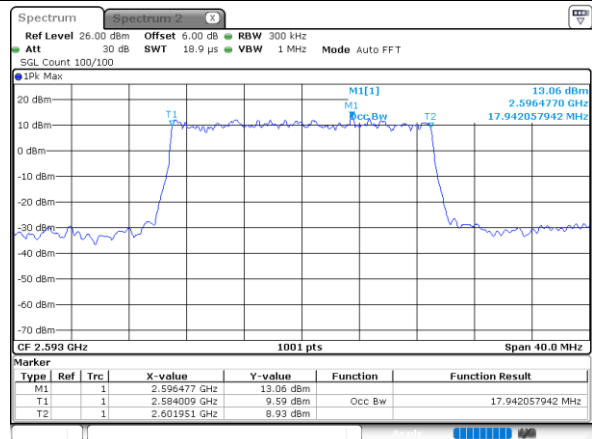


## LTE Band 41

## Middle Channel / 20MHz / QPSK



## Middle Channel / 20MHz / 16QAM

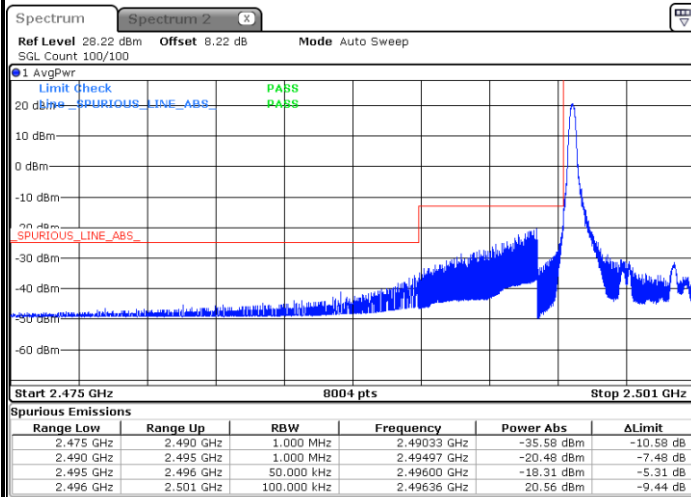




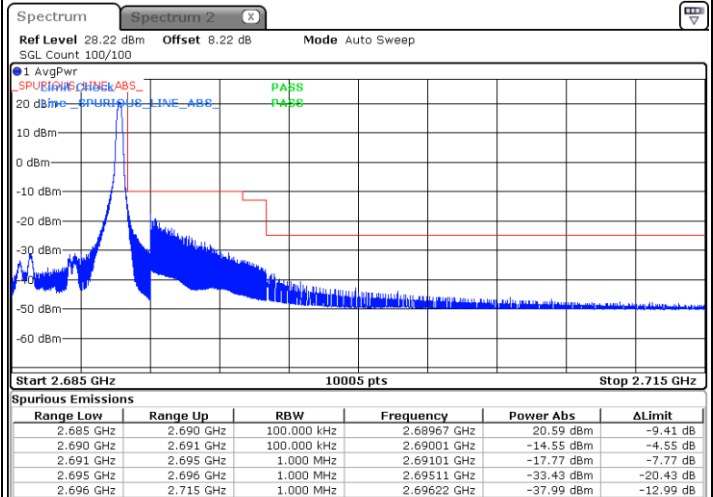
# Conducted Band Edge

## LTE Band 41 / 5MHz / QPSK

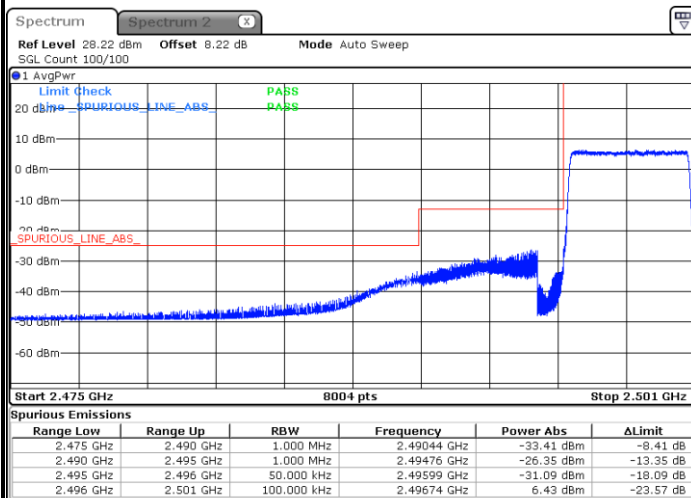
### Lowest Band Edge / 1 RB



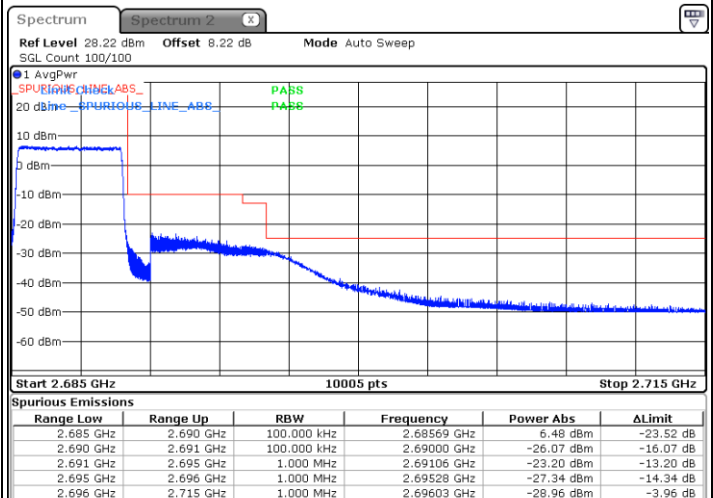
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



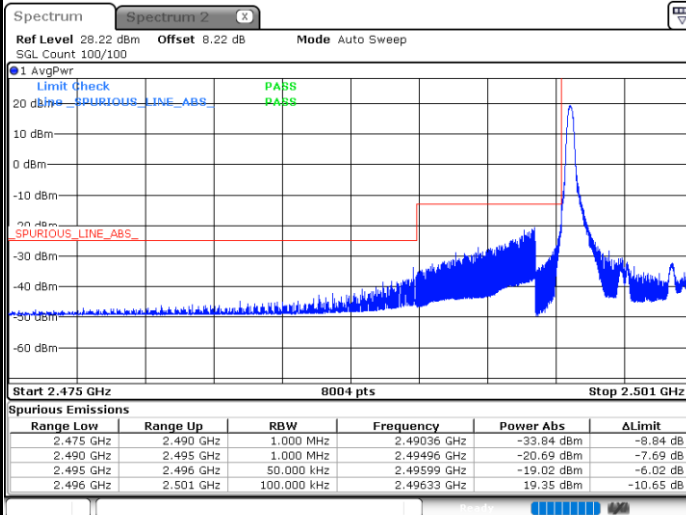
### Highest Band Edge / Full RB



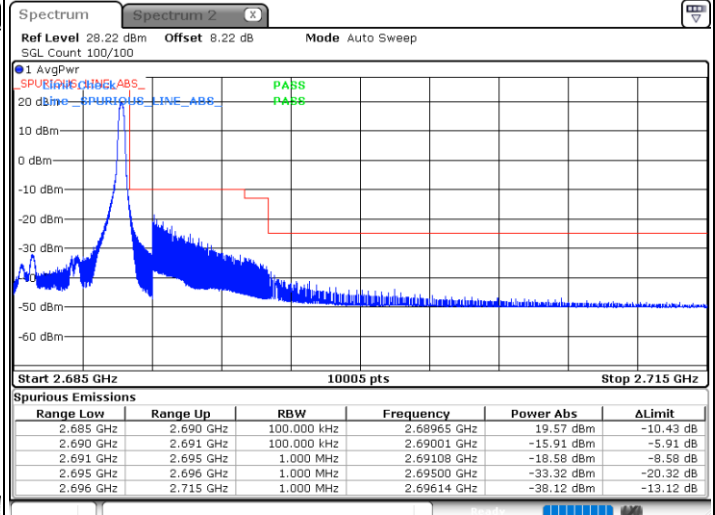


## LTE Band 41 / 5MHz / 16QAM

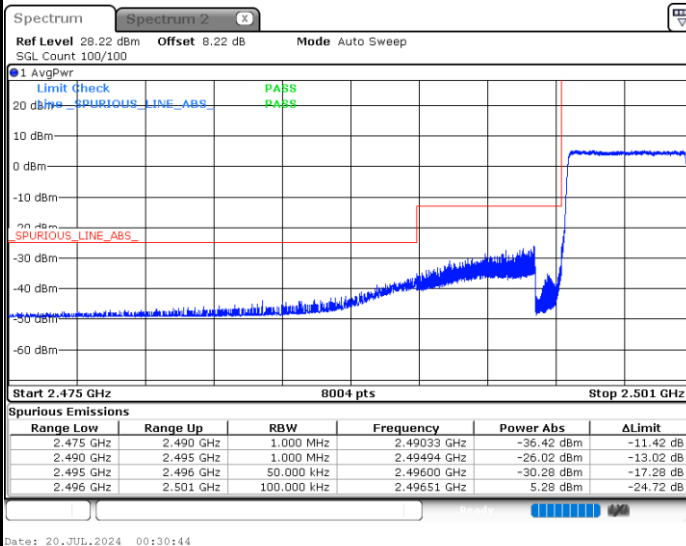
## Lowest Band Edge / 1RB



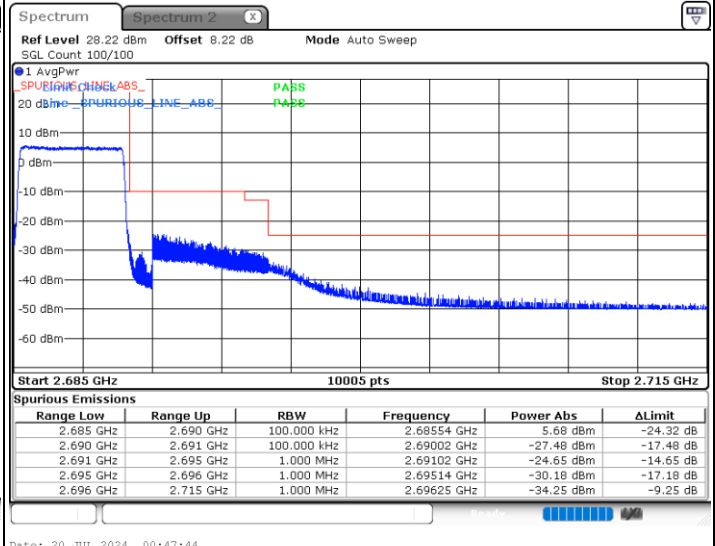
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



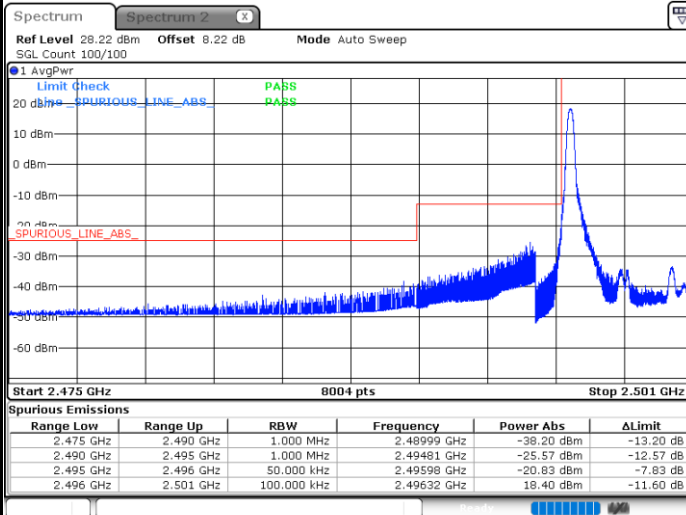
## Highest Band Edge / Full RB



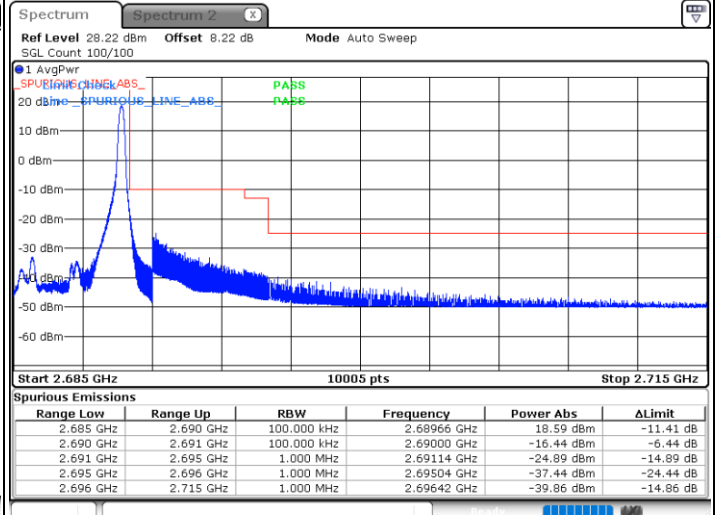


## LTE Band 41 / 5MHz / 64QAM

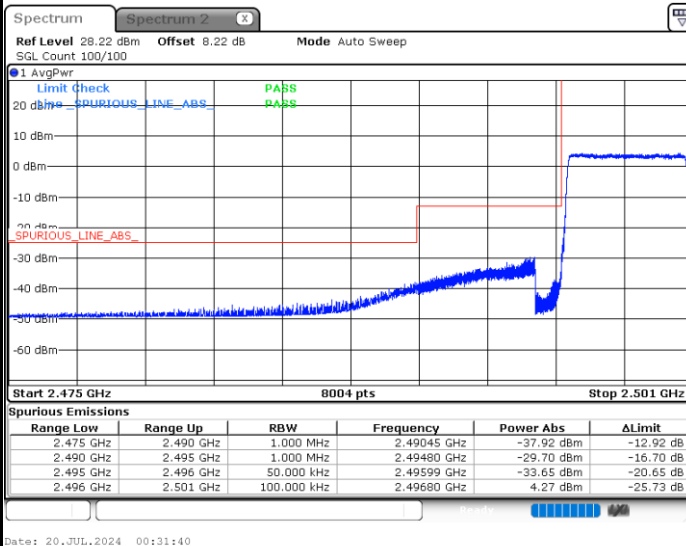
## Lowest Band Edge / 1RB



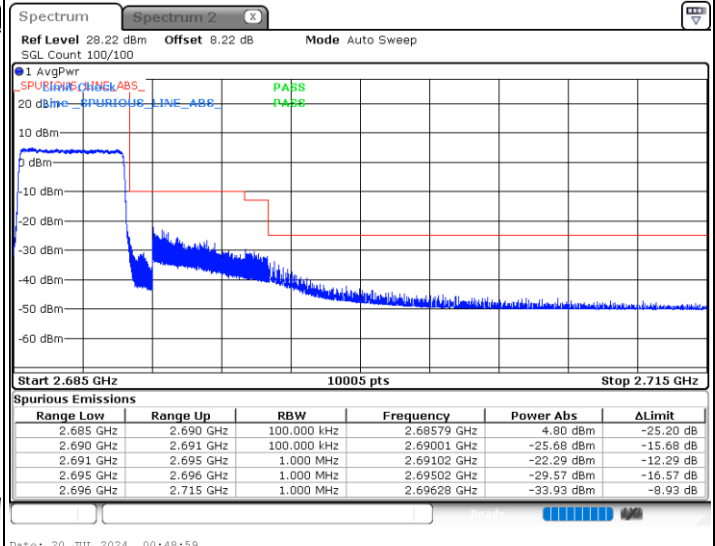
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



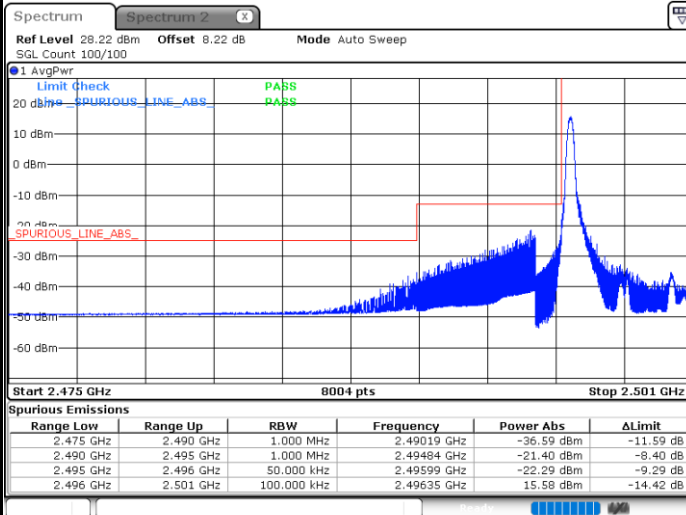
## Highest Band Edge / Full RB



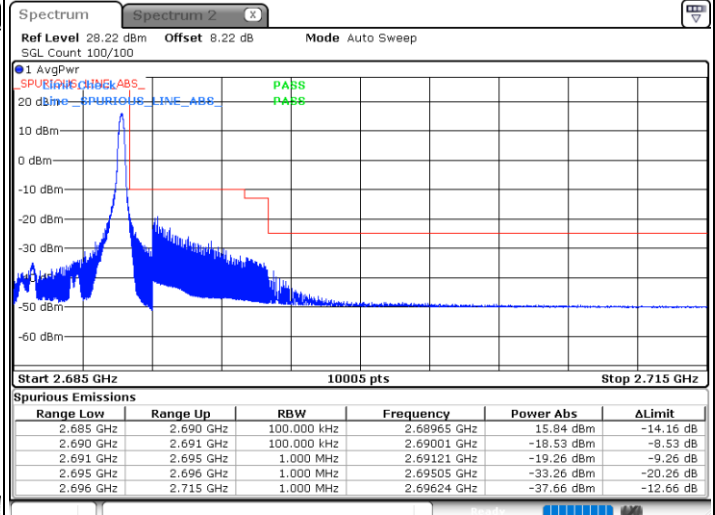


## LTE Band 41 / 5MHz / 256QAM

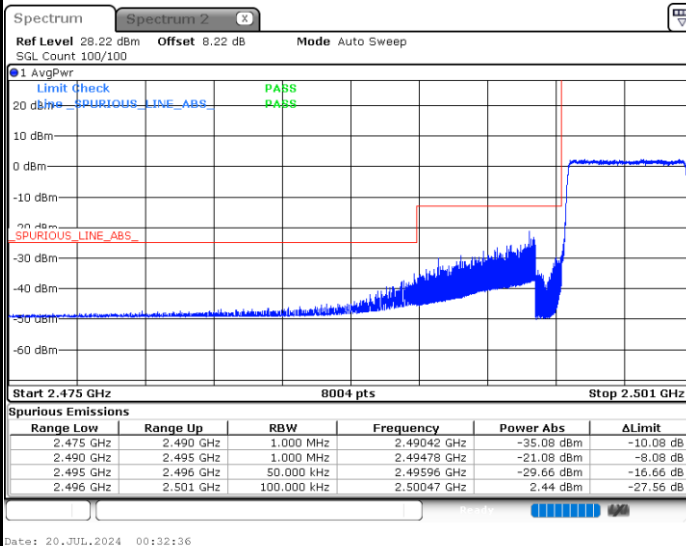
## Lowest Band Edge / 1RB



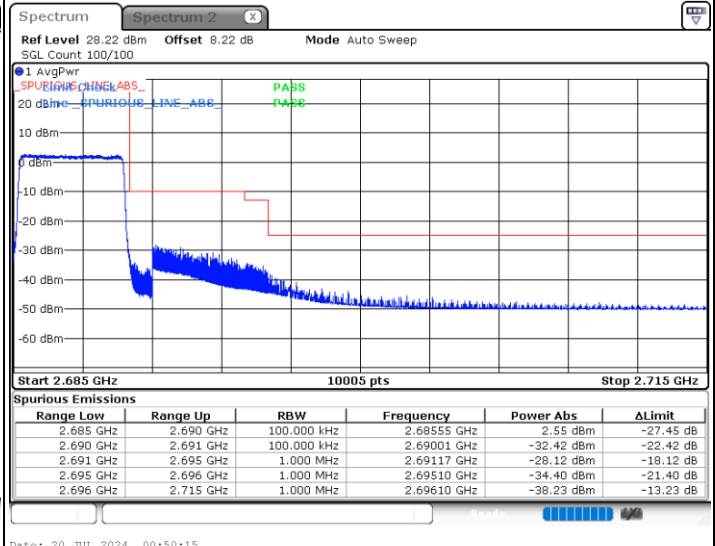
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



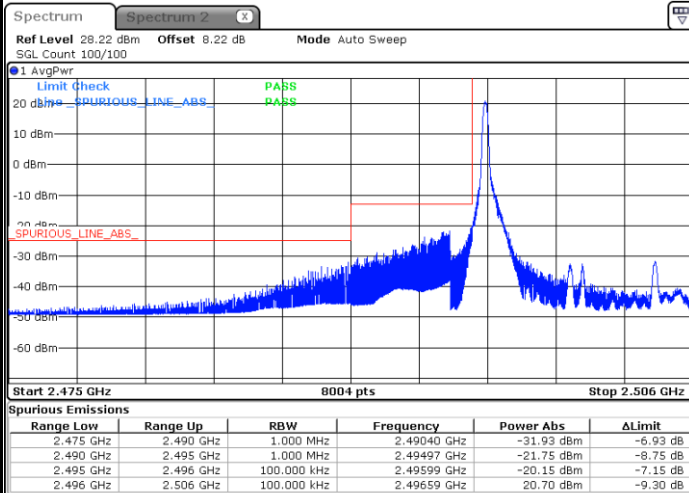
## Highest Band Edge / Full RB



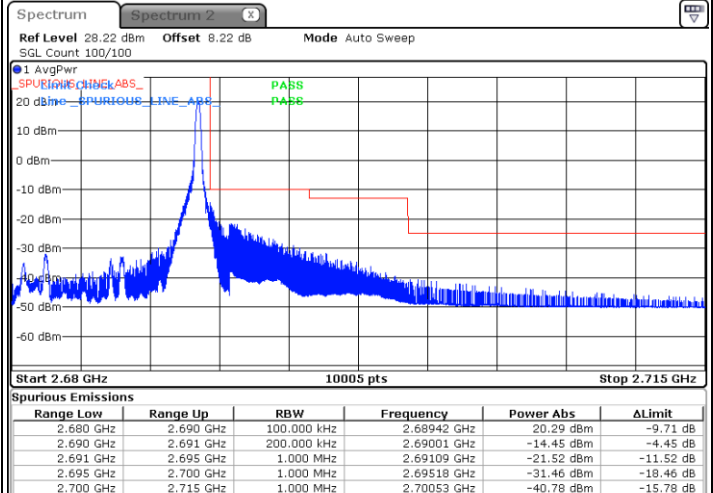


## LTE Band 41 / 10MHz / QPSK

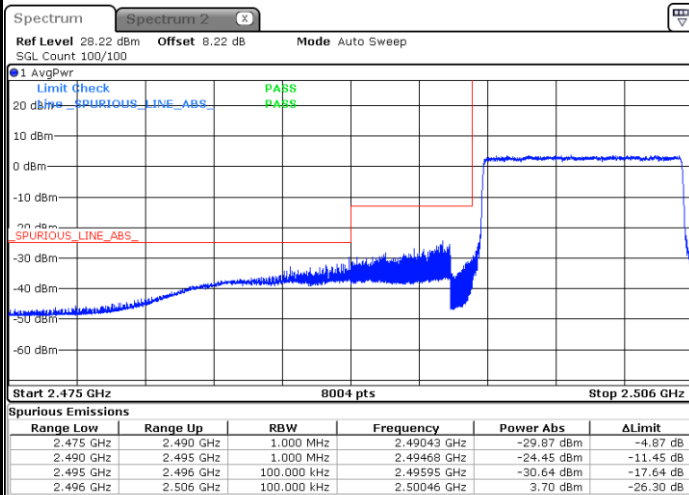
## Lowest Band Edge / 1 RB



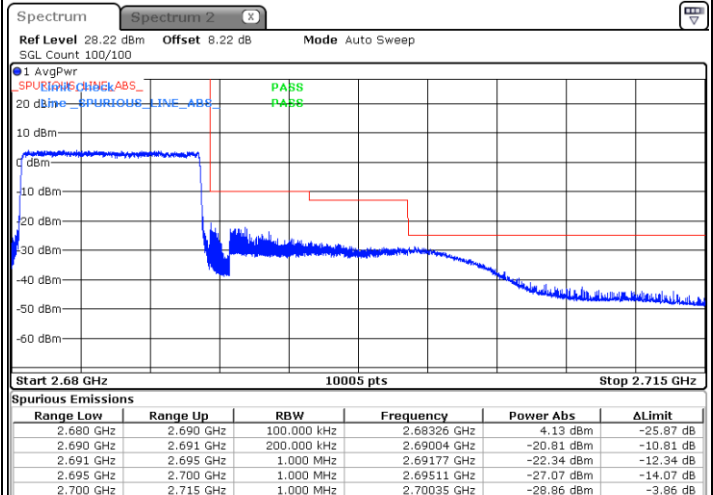
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

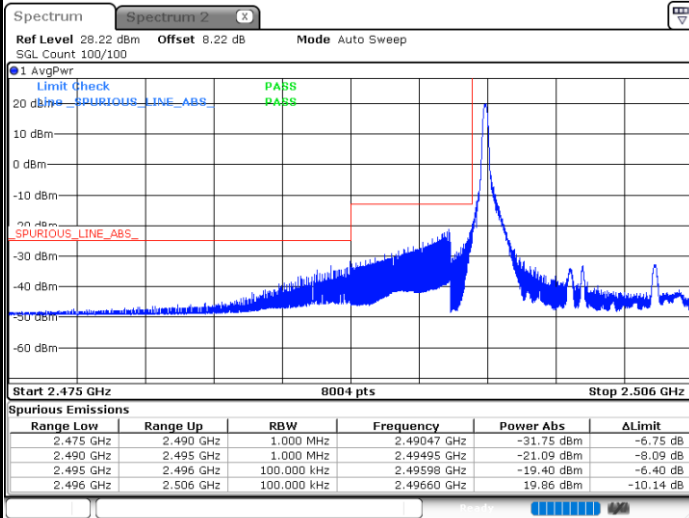




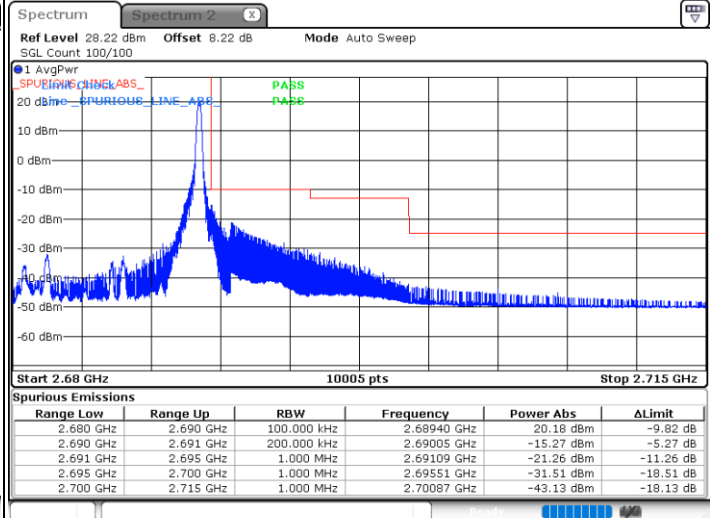


## LTE Band 41 / 10MHz / 16QAM

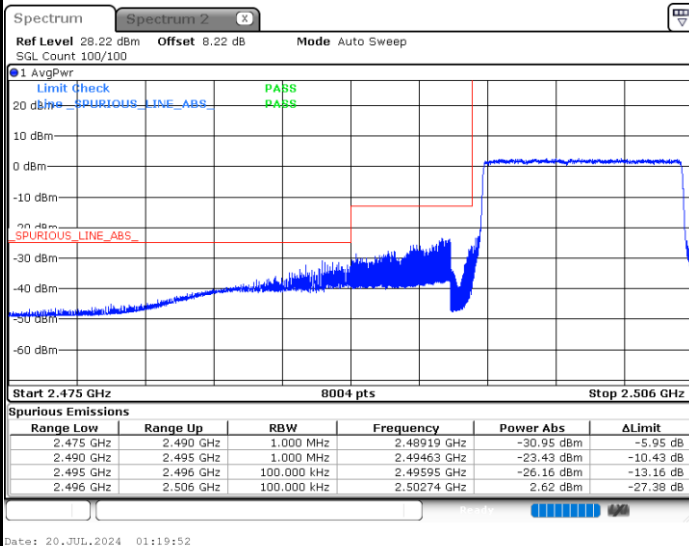
## Lowest Band Edge / 1 RB



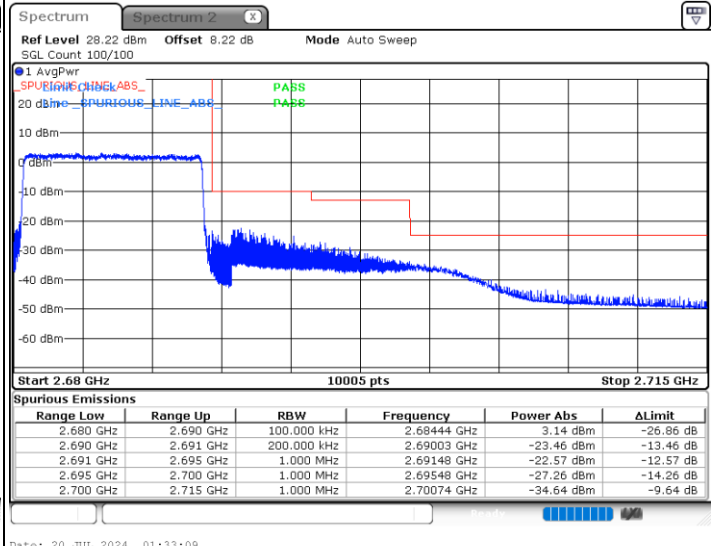
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



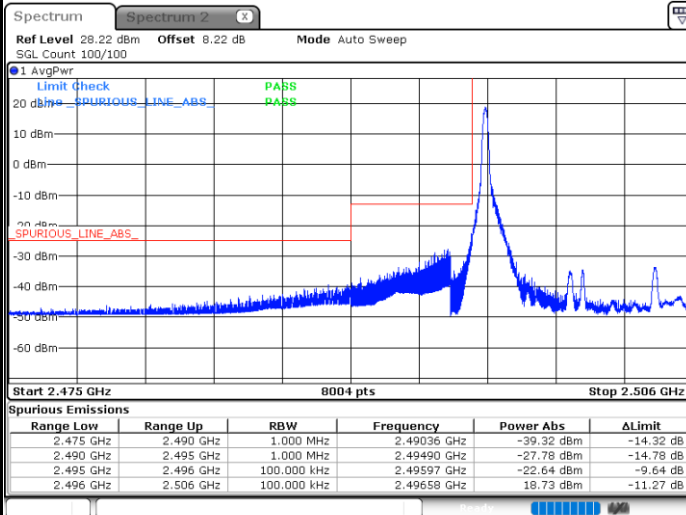
## Highest Band Edge / Full RB



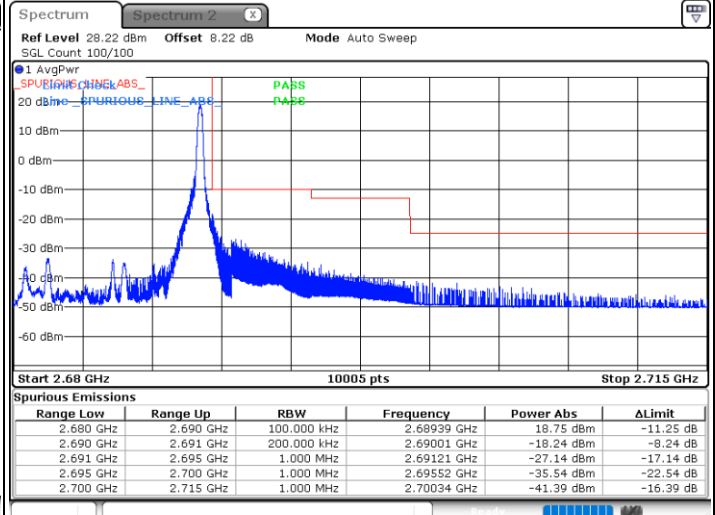


## LTE Band 41 / 10MHz / 64QAM

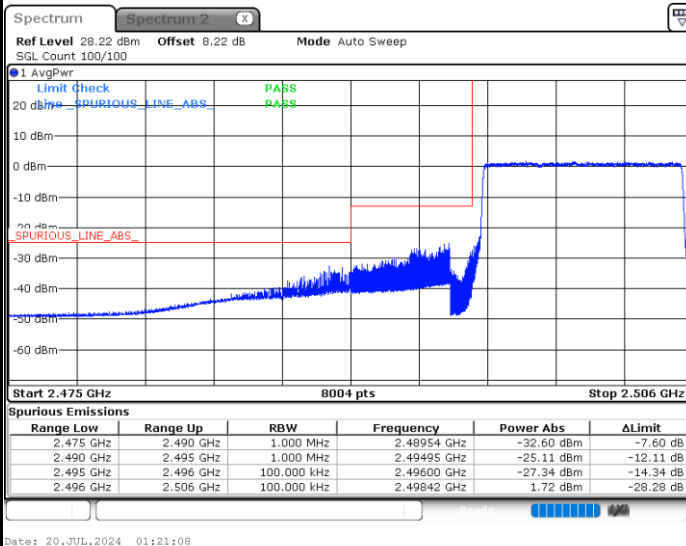
## Lowest Band Edge / 1 RB



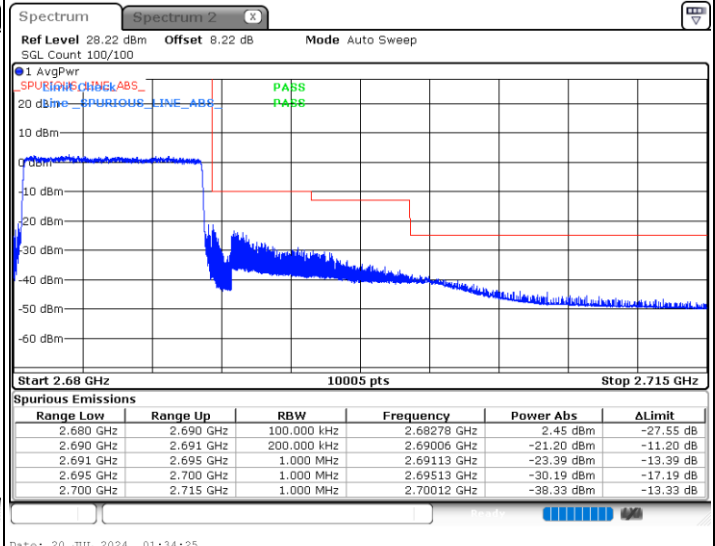
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



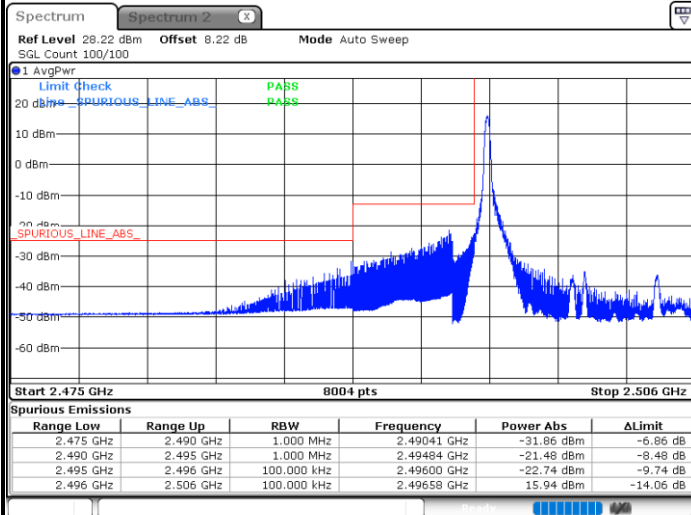
## Highest Band Edge / Full RB



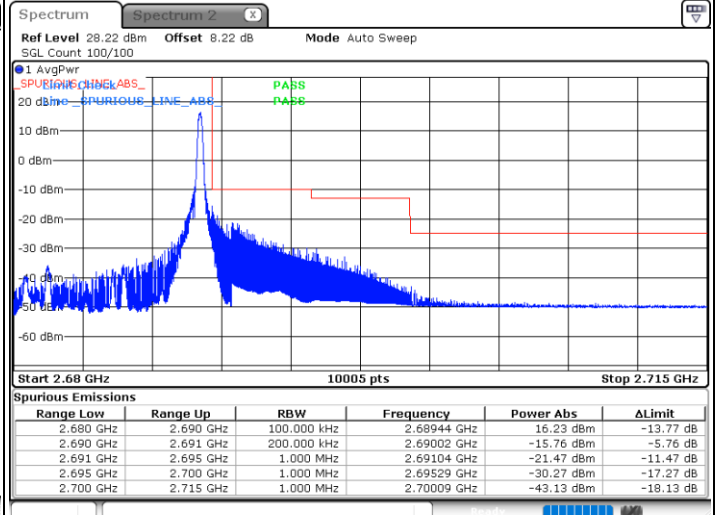


## LTE Band 41 / 10MHz / 256QAM

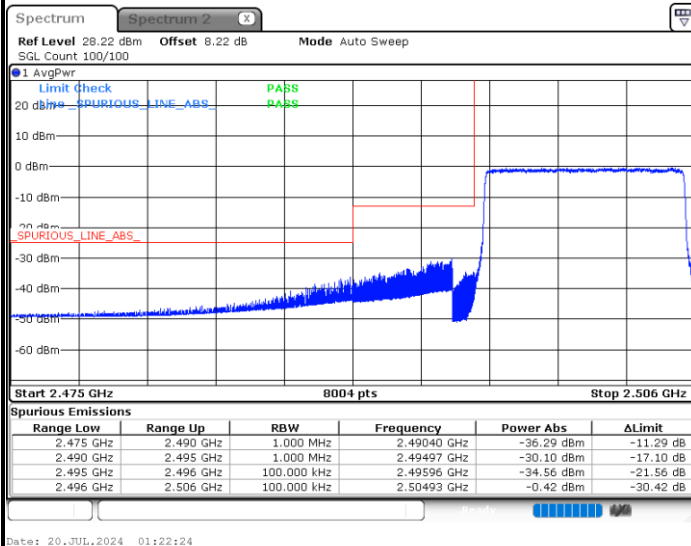
## Lowest Band Edge / 1RB



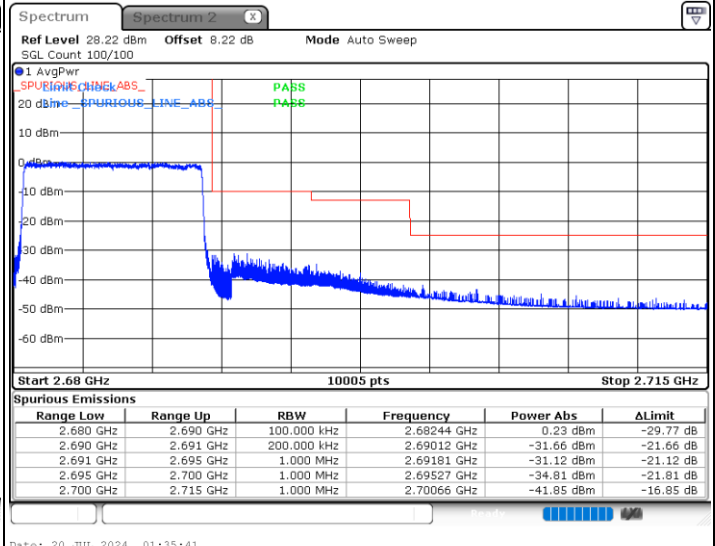
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



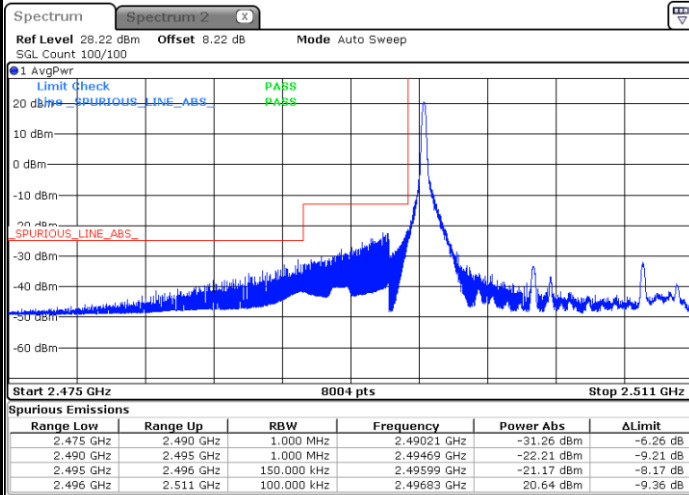
## Highest Band Edge / Full RB



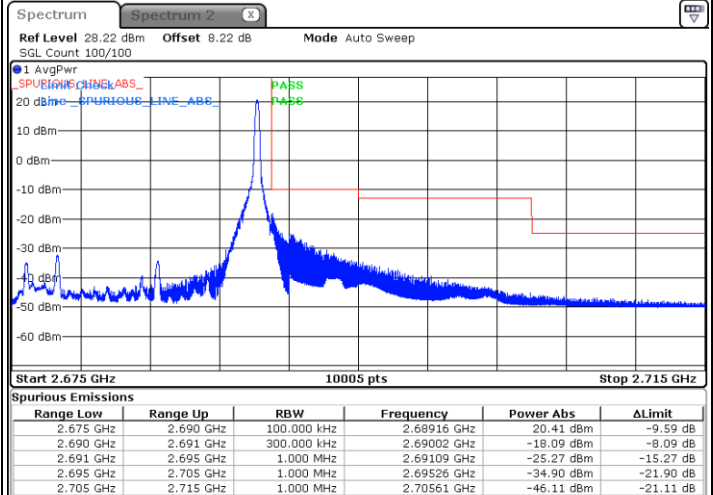


## LTE Band 41 / 15MHz / QPSK

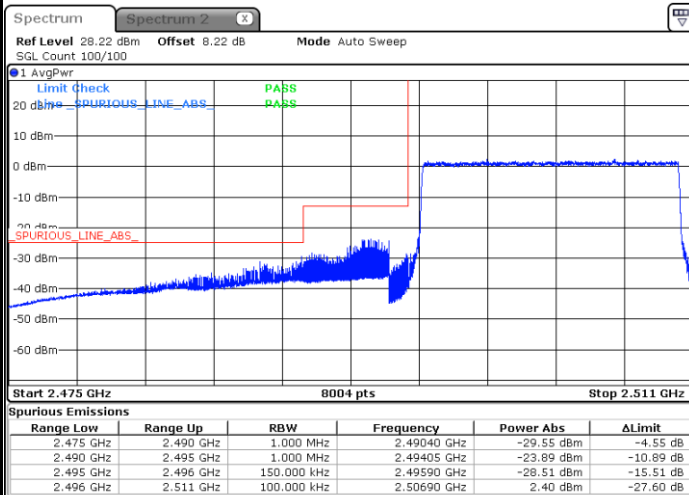
## Lowest Band Edge / 1 RB



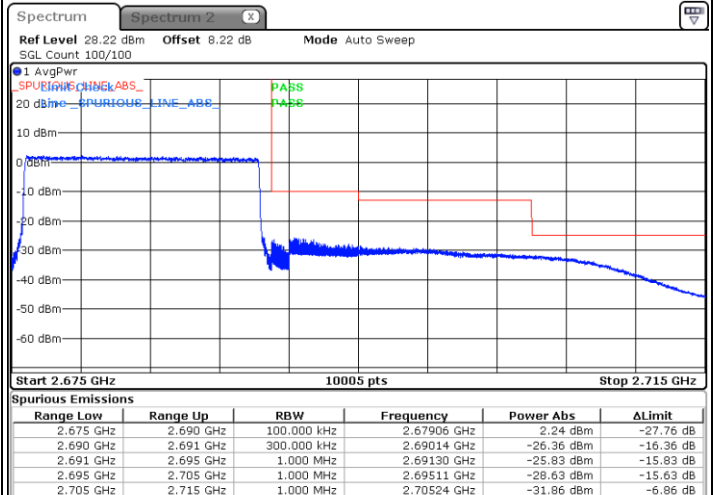
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



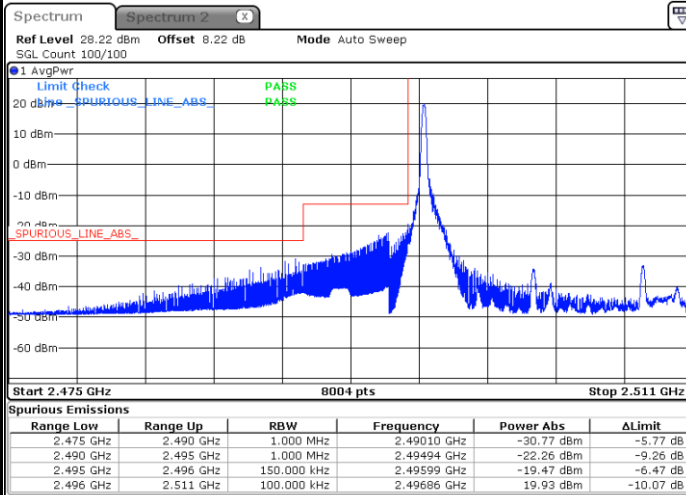
## Highest Band Edge / Full RB



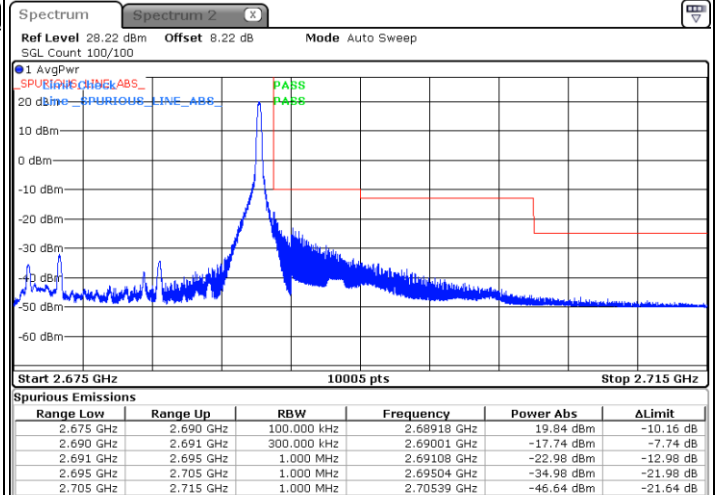


## LTE Band 41 / 15MHz / 16QAM

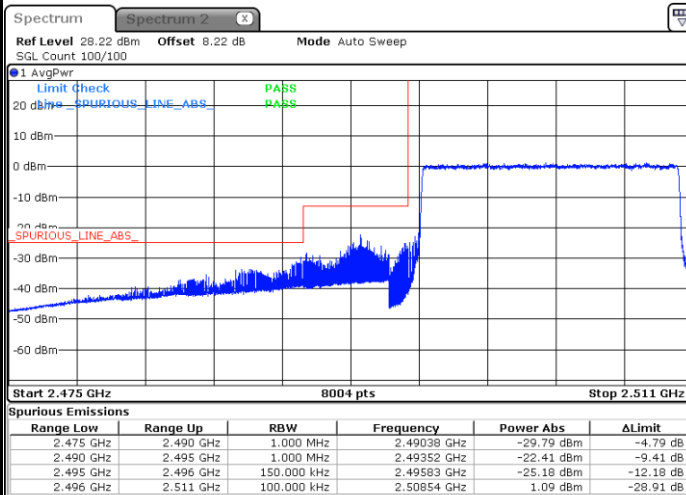
## Lowest Band Edge / 1 RB



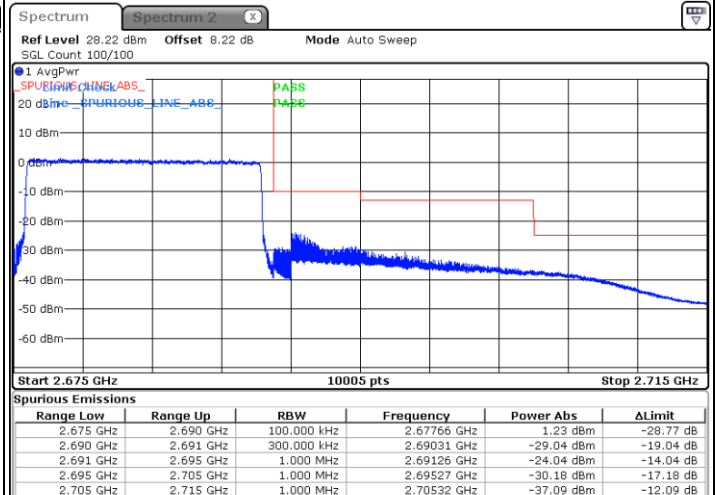
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



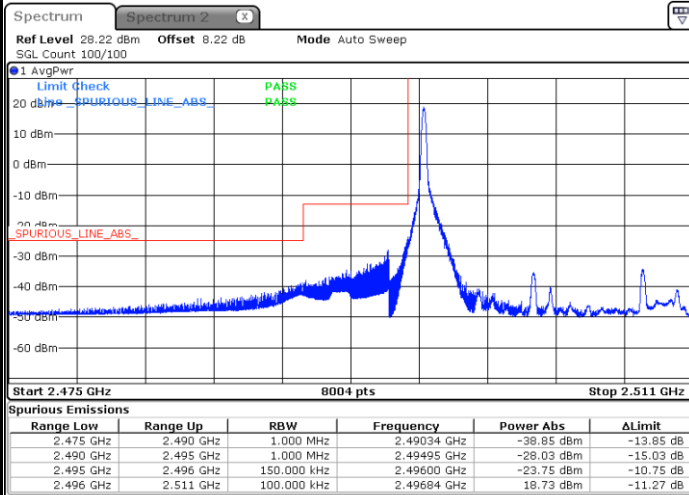
## Highest Band Edge / Full RB



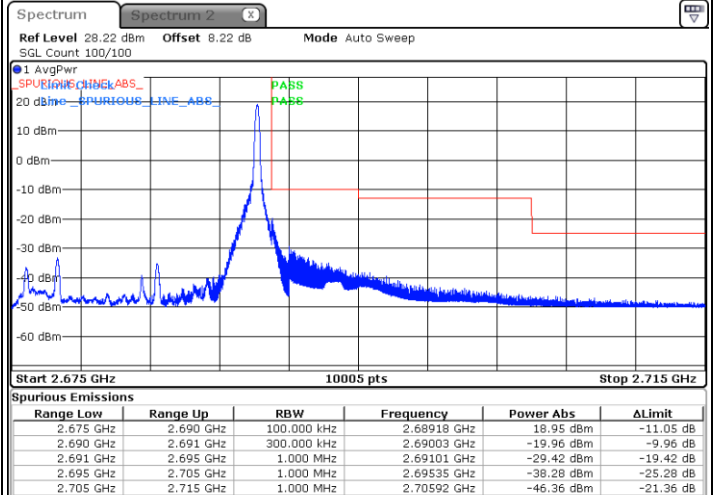


## LTE Band 41 / 15MHz / 64QAM

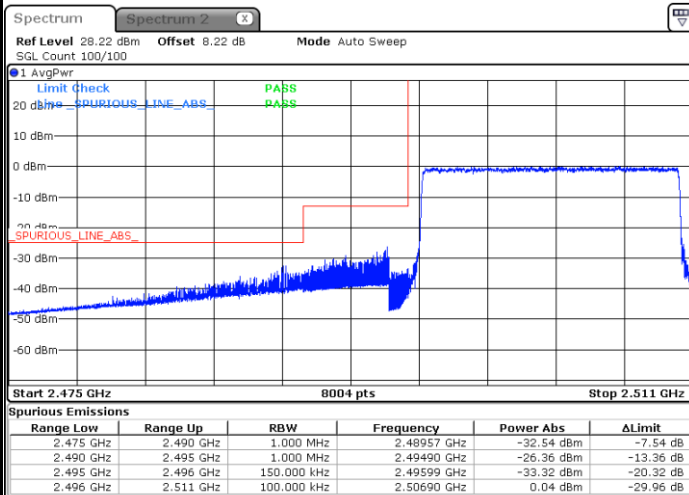
## Lowest Band Edge / 1 RB



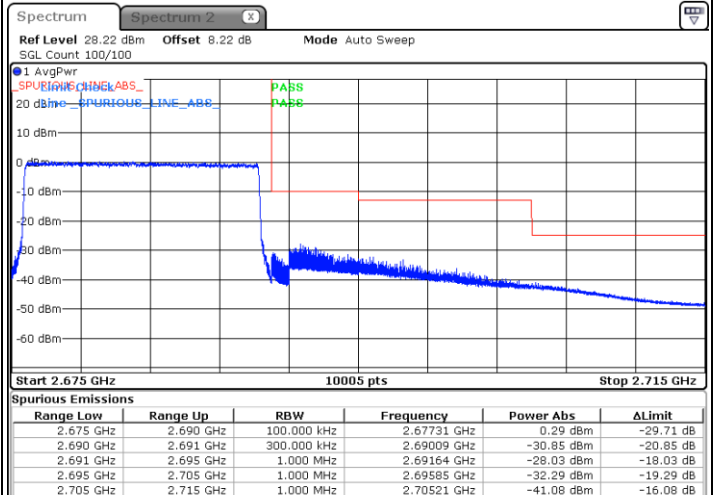
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



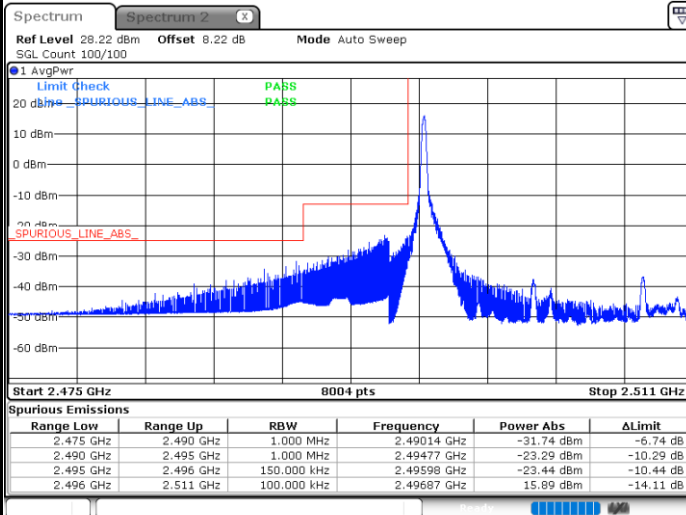
## Highest Band Edge / Full RB



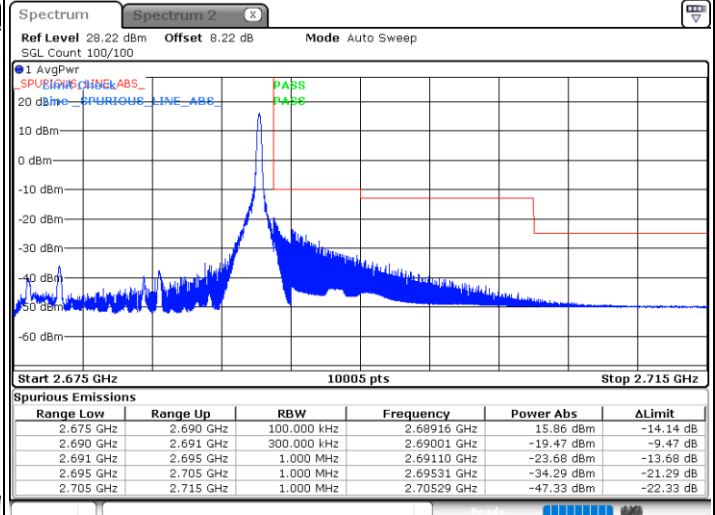


## LTE Band 41 / 15MHz / 256QAM

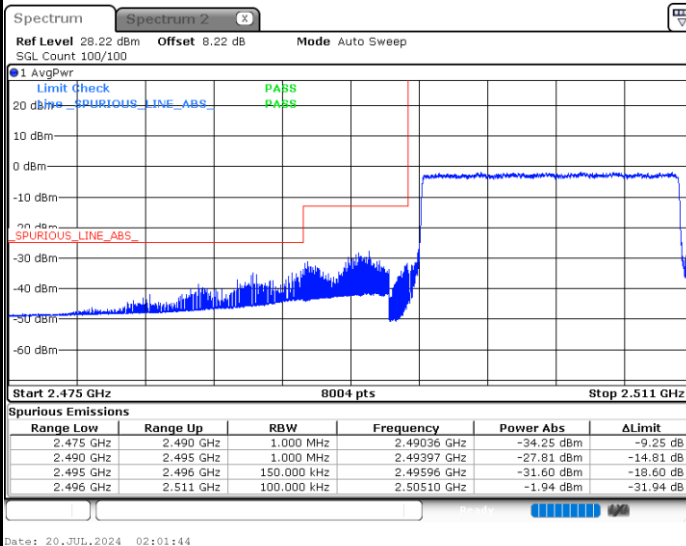
## Lowest Band Edge / 1RB



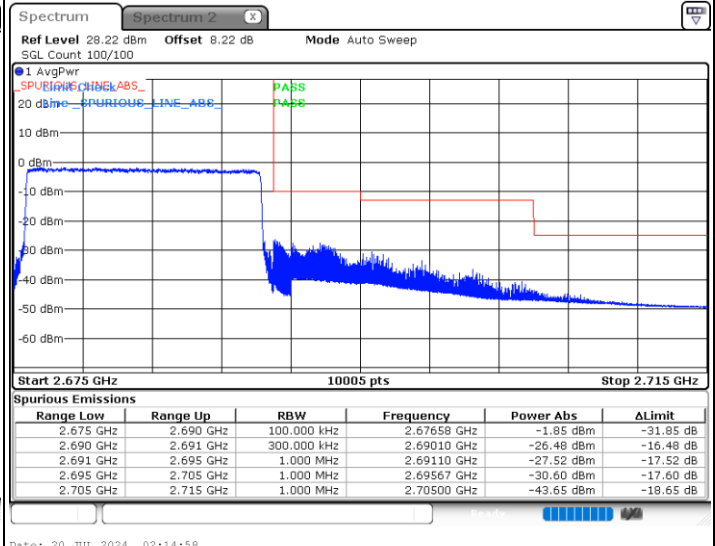
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

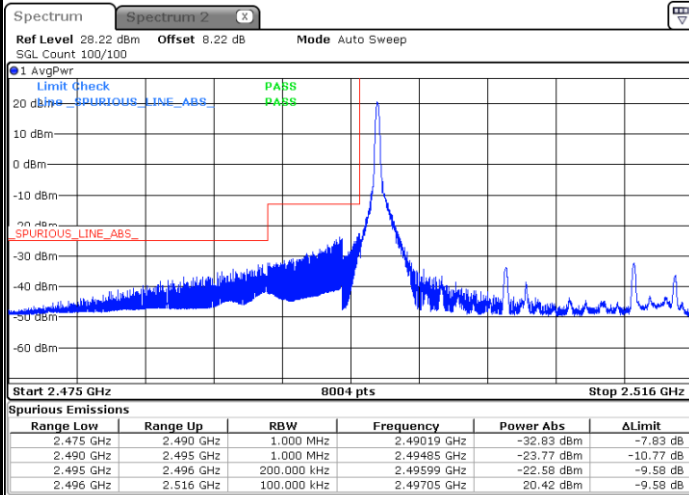




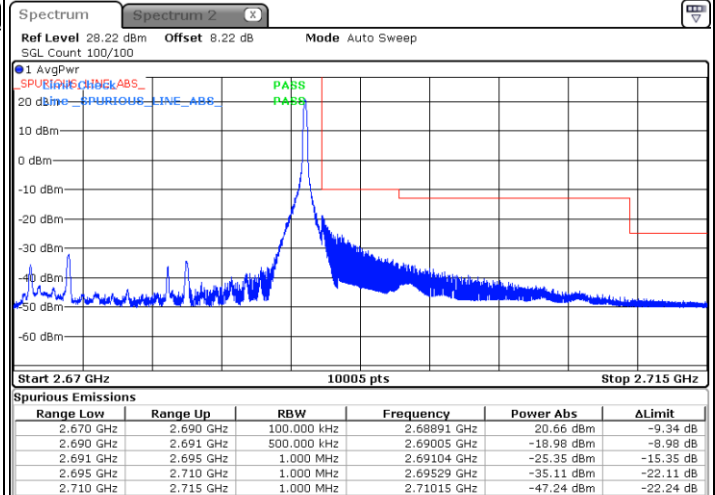


## LTE Band 41 / 20MHz / QPSK

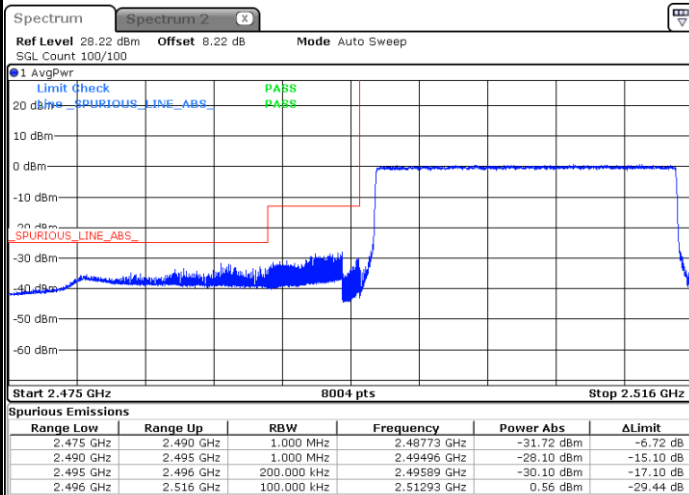
## Lowest Band Edge / 1 RB



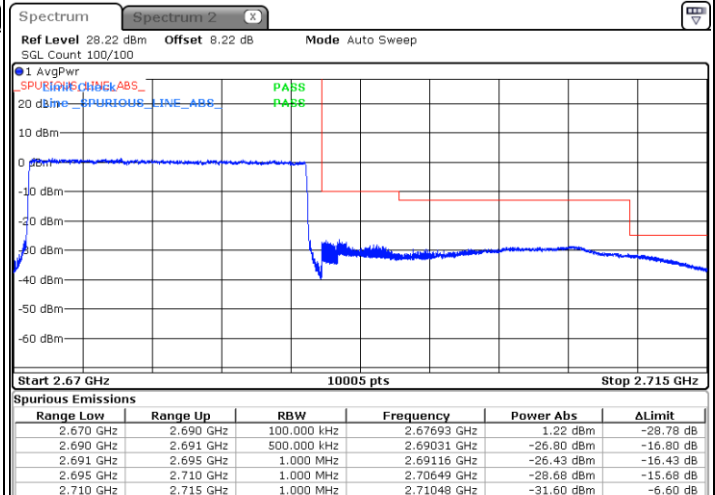
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

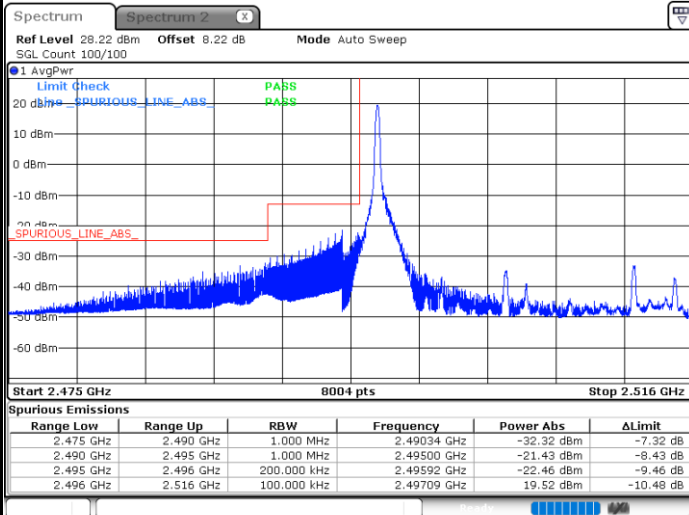




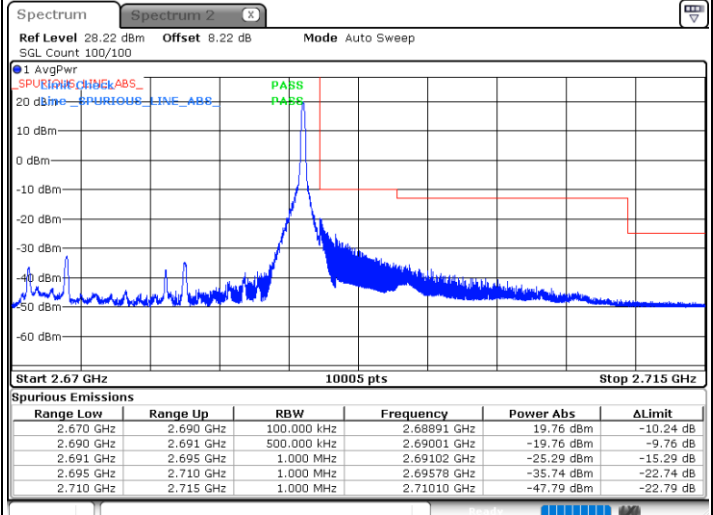


## LTE Band 41 / 20MHz / 16QAM

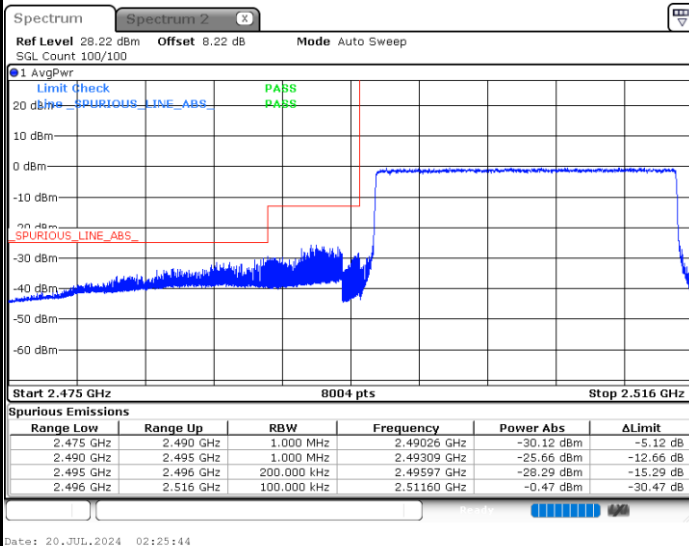
## Lowest Band Edge / 1 RB



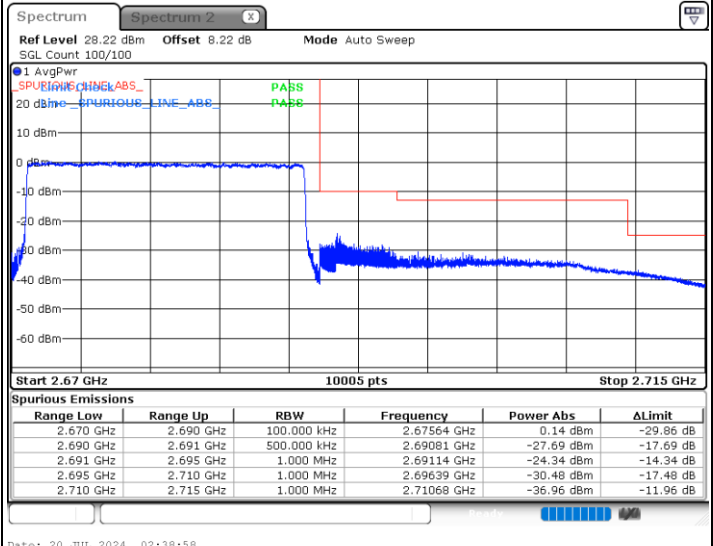
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



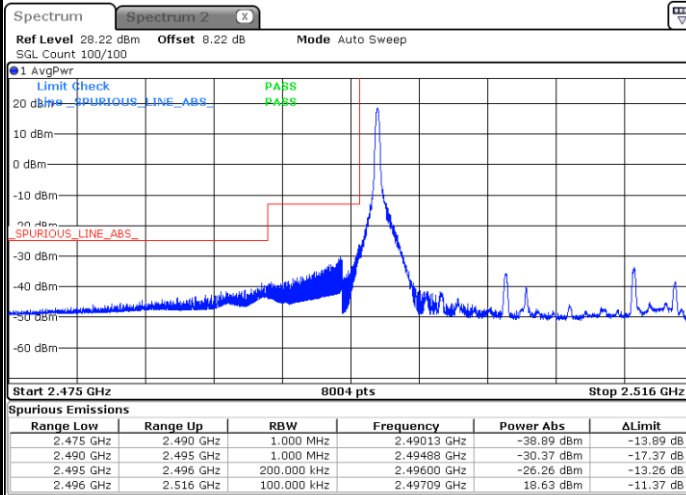
## Highest Band Edge / Full RB



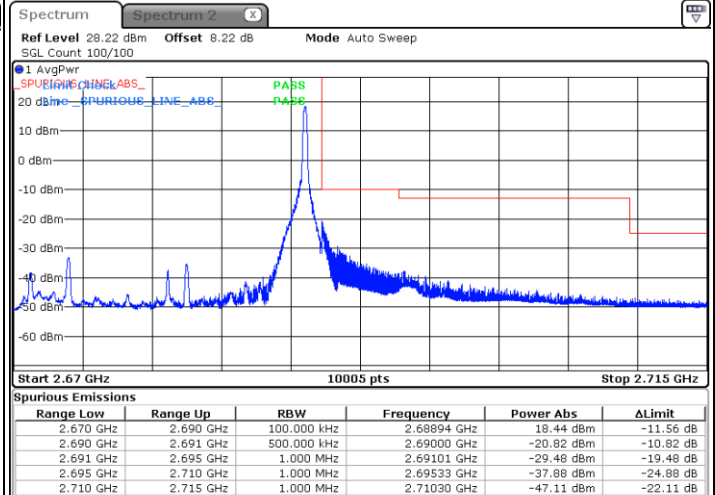


## LTE Band 41 / 20MHz / 64QAM

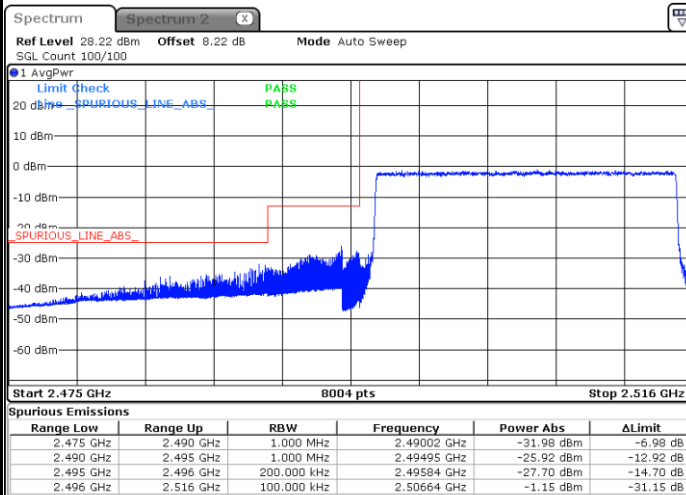
## Lowest Band Edge / 1 RB



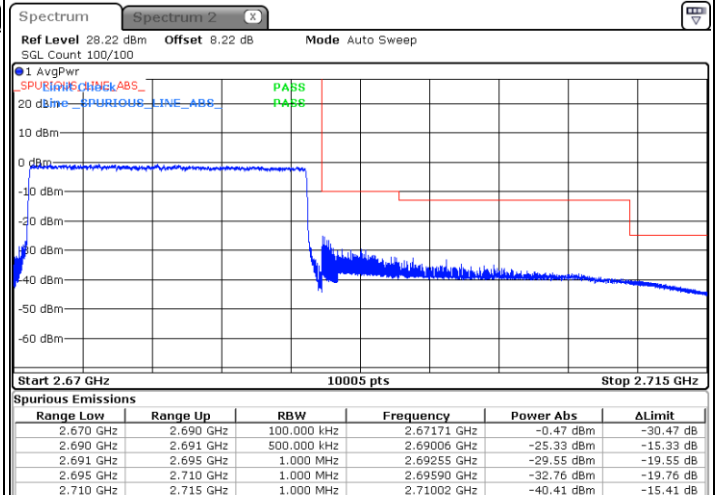
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



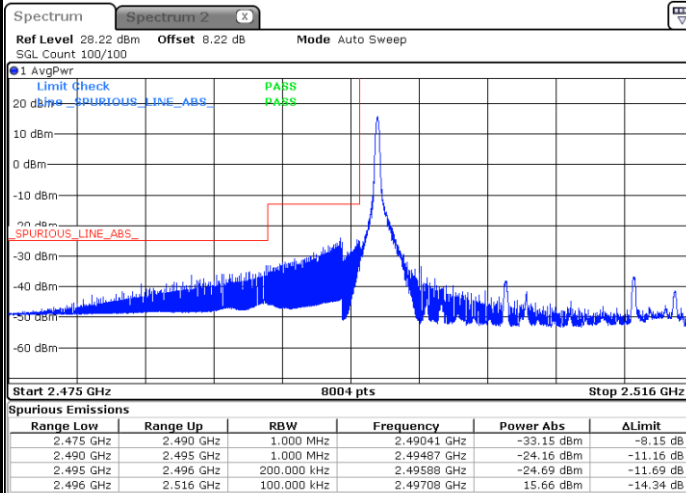
## Highest Band Edge / Full RB



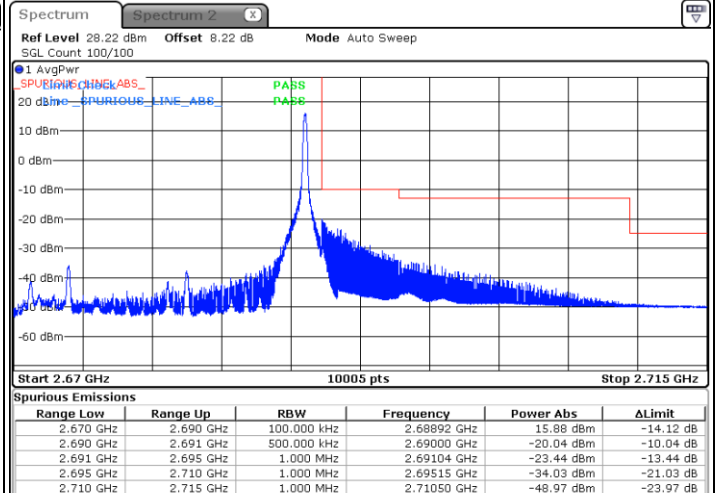


## LTE Band 41 / 20MHz / 256QAM

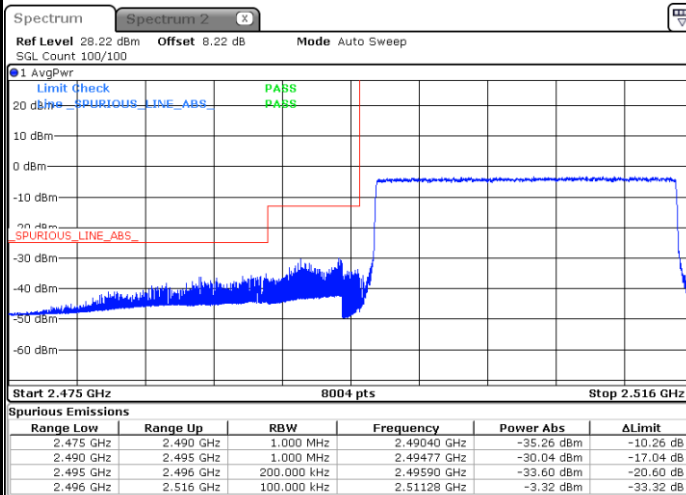
## Lowest Band Edge / 1RB



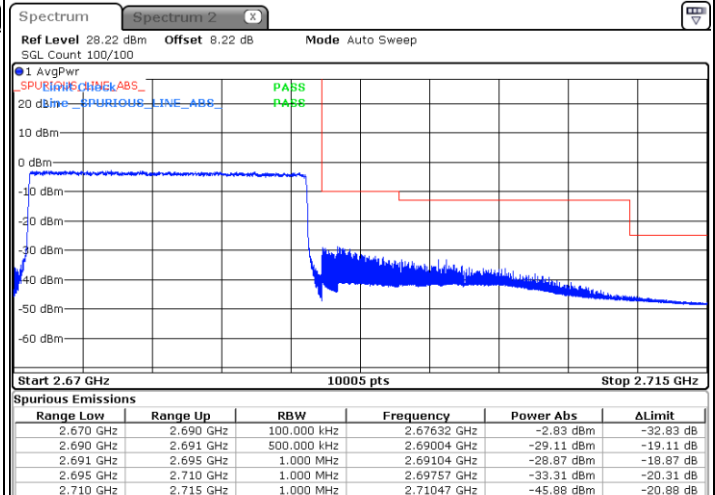
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

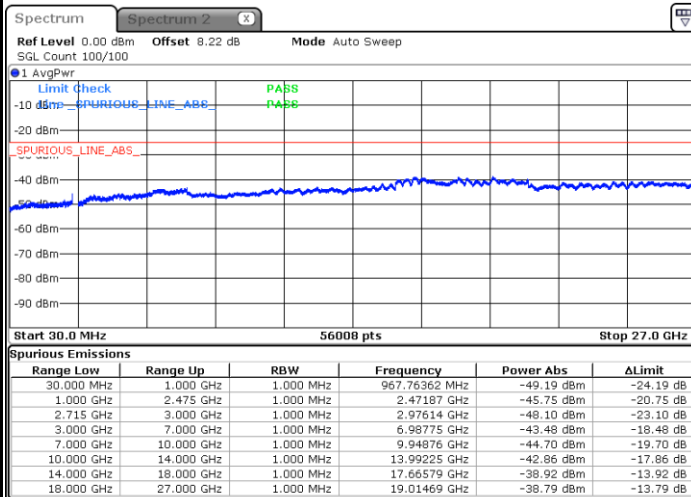




# Conducted Spurious Emission

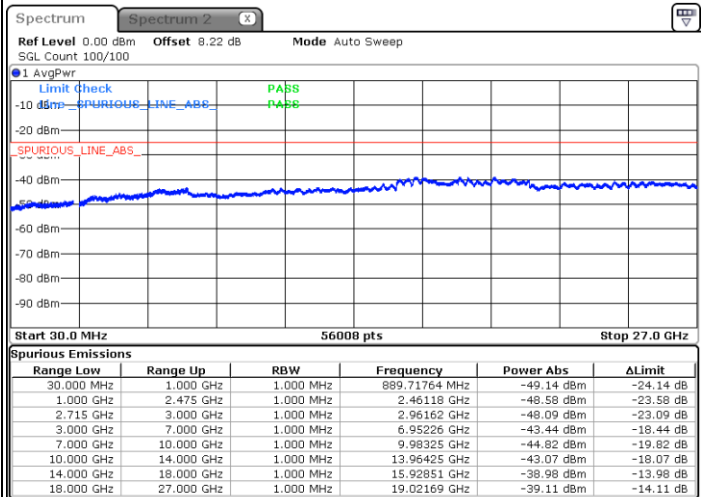
## LTE Band 41 / 5MHz

### Lowest Channel / QPSK



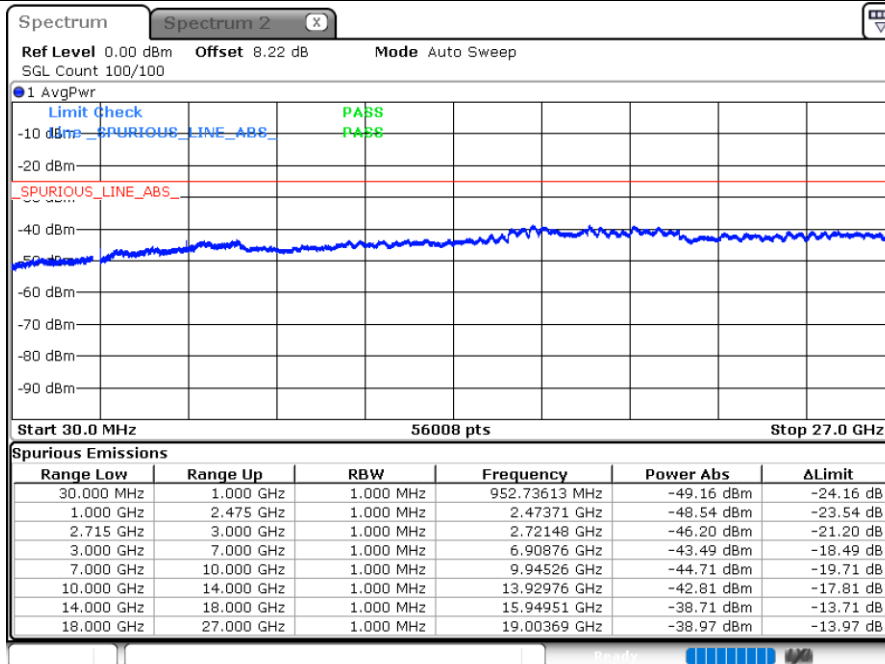
Date: 20.JUL.2024 00:25:18

### Middle Channel / QPSK



Date: 20.JUL.2024 00:34:06

### Highest Channel / QPSK

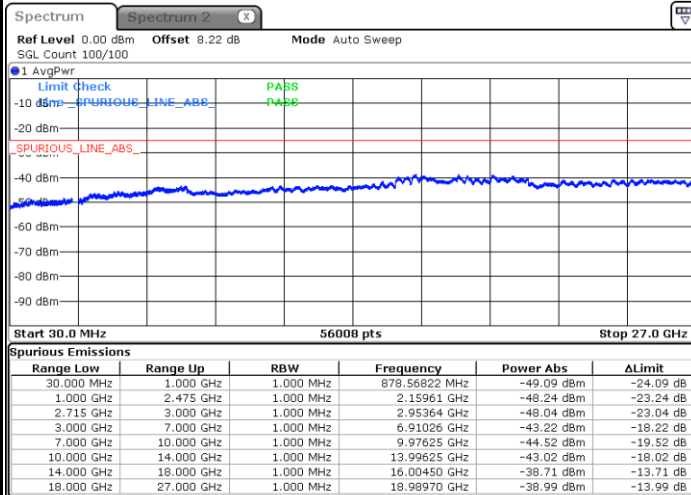


Date: 20.JUL.2024 00:35:36



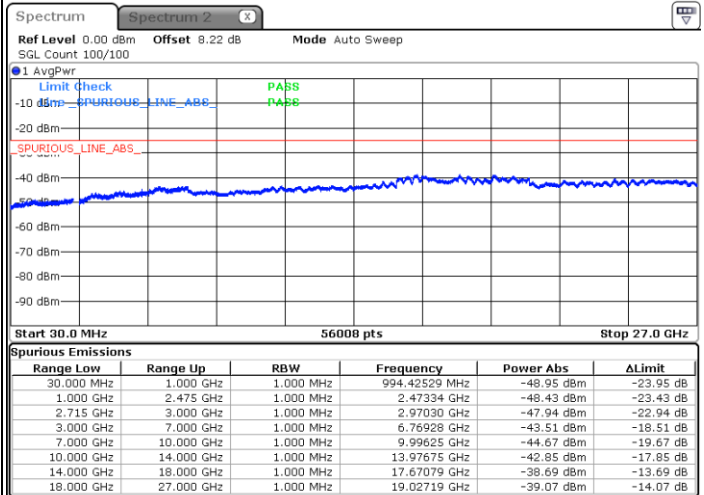
## LTE Band 41 / 10MHz

## Lowest Channel / QPSK



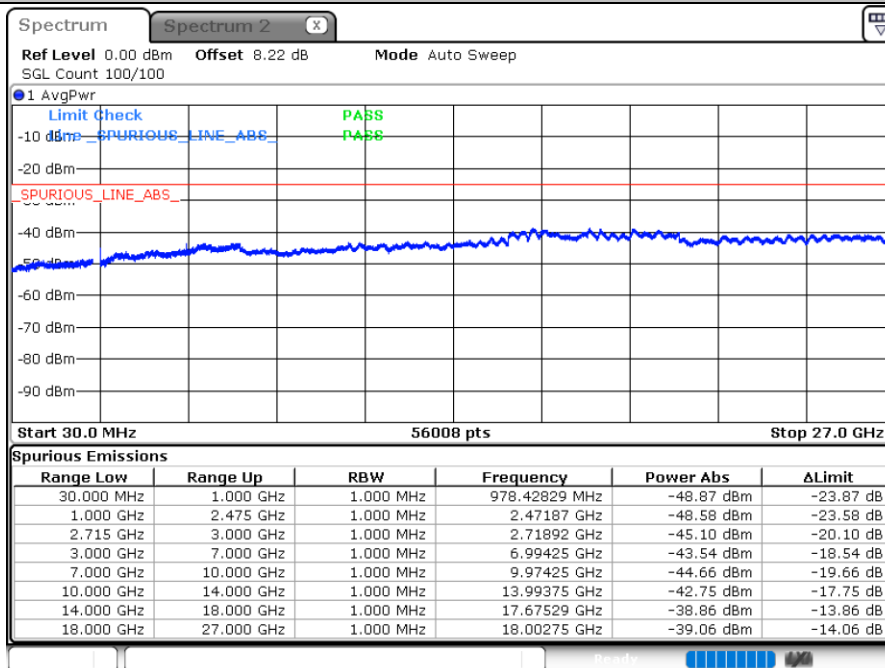
Date: 20.JUL.2024 01:12:21

## Middle Channel / QPSK



Date: 20.JUL.2024 03:49:37

## Highest Channel / QPSK

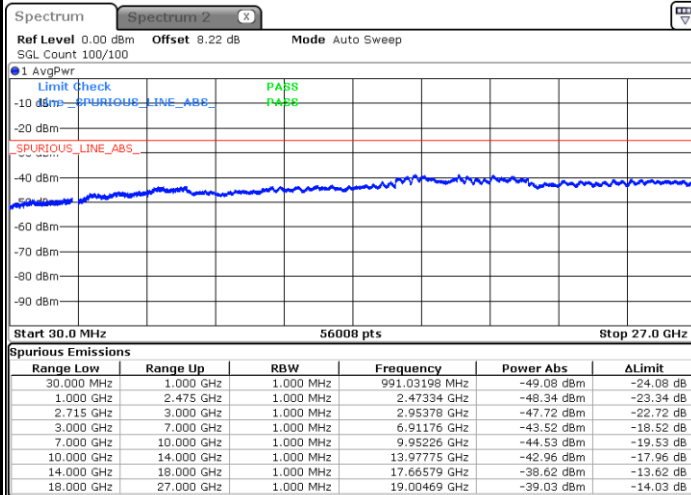


Date: 20.JUL.2024 01:25:24



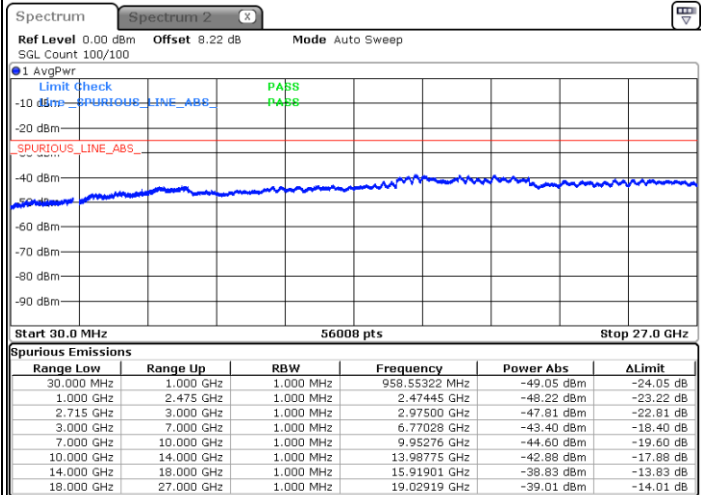
## LTE Band 41 / 15MHz

## Lowest Channel / QPSK



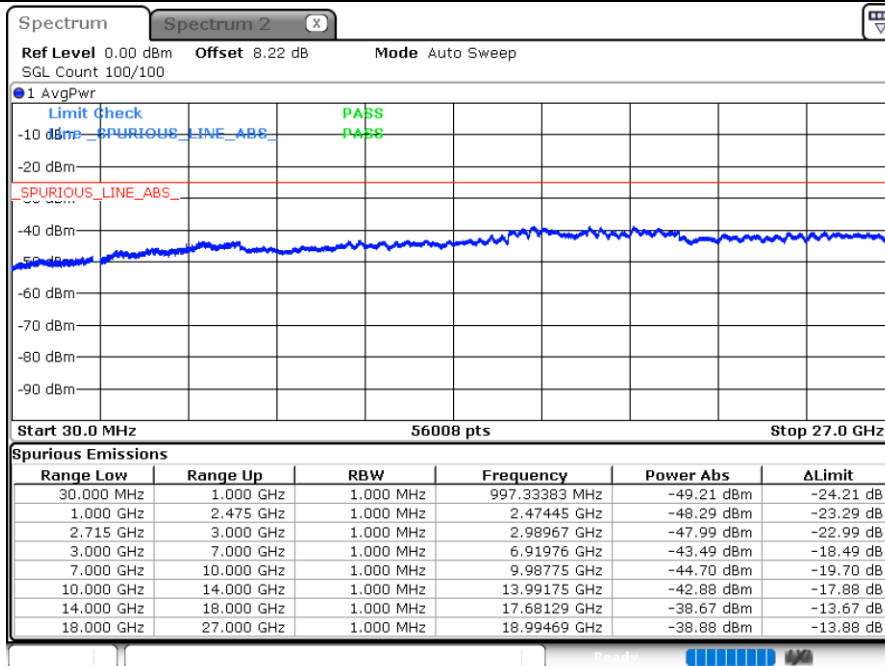
Date: 20.JUL.2024 01:51:45

## Middle Channel / QPSK



Date: 20.JUL.2024 02:03:14

## Highest Channel / QPSK

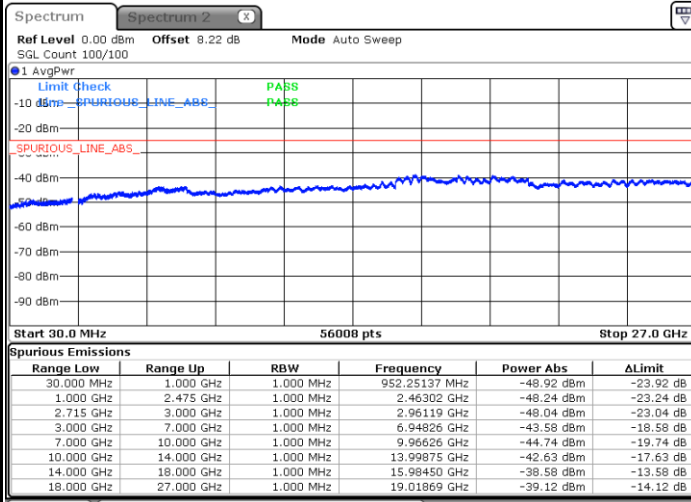


Date: 20.JUL.2024 02:04:44



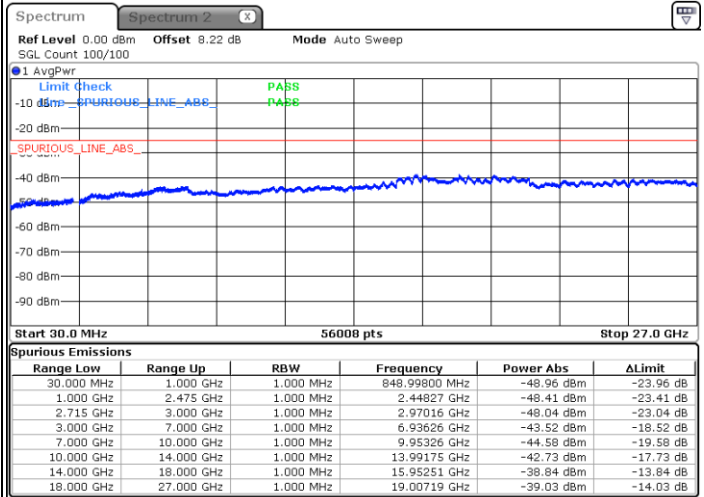
## LTE Band 41 / 20MHz

## Lowest Channel / QPSK



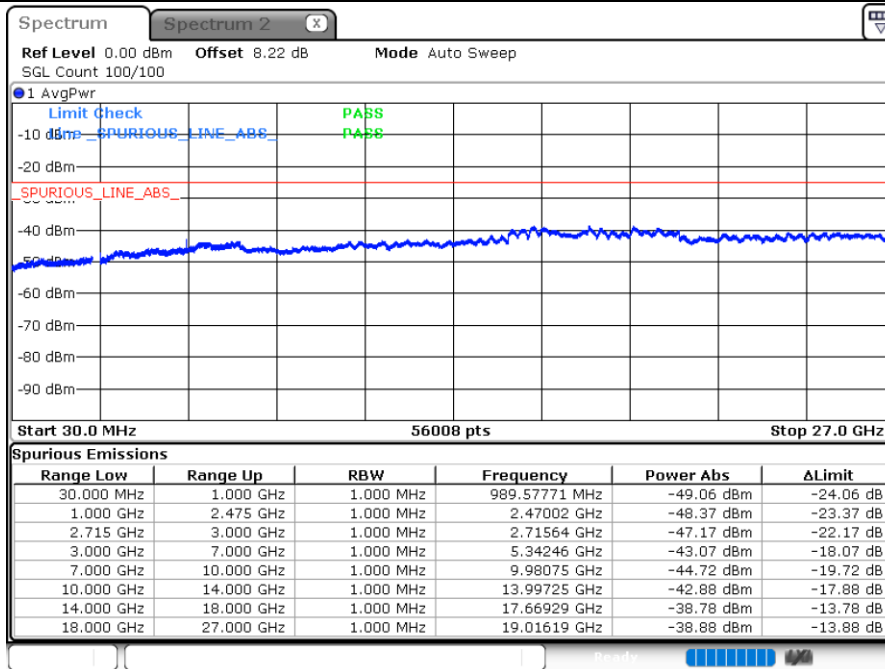
Date: 20.JUL.2024 02:18:16

## Middle Channel / QPSK



Date: 20.JUL.2024 02:29:45

## Highest Channel / QPSK



Date: 20.JUL.2024 02:31:15



## Frequency Stability

| Test Conditions  |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0029                              | PASS    |
| 40               | Normal Voltage    | 0.0005                              |         |
| 30               | Normal Voltage    | 0.0011                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0027                              |         |
| 0                | Normal Voltage    | 0.0013                              |         |
| -10              | Normal Voltage    | 0.0009                              |         |
| -20              | Normal Voltage    | 0.0021                              |         |
| -30              | Normal Voltage    | 0.0038                              |         |
| 20               | Maximum Voltage   | 0.0025                              |         |
| 20               | Normal Voltage    | 0.0018                              |         |
| 20               | Battery End Point | 0.0013                              |         |

**Note:**

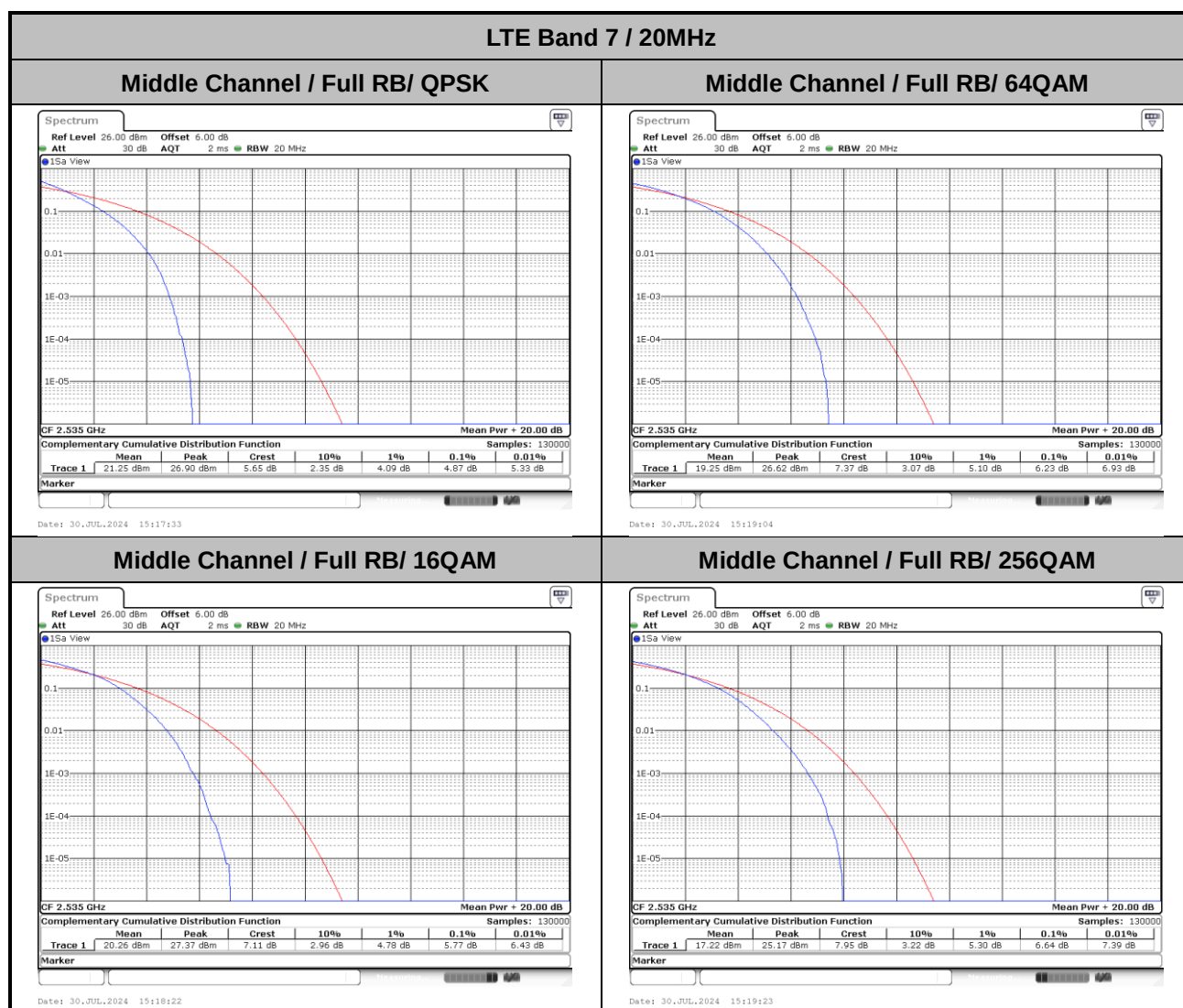
1. Normal Voltage =3.91V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7(Other PA)

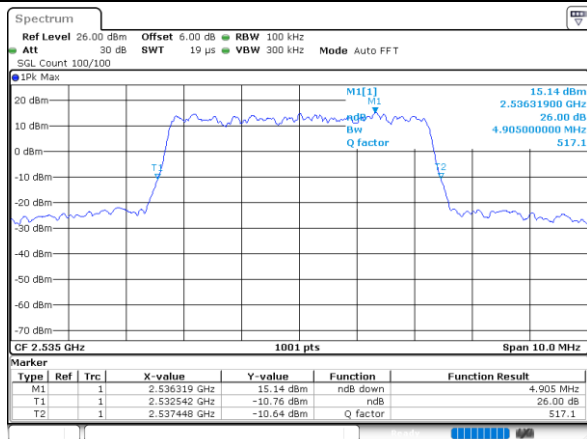
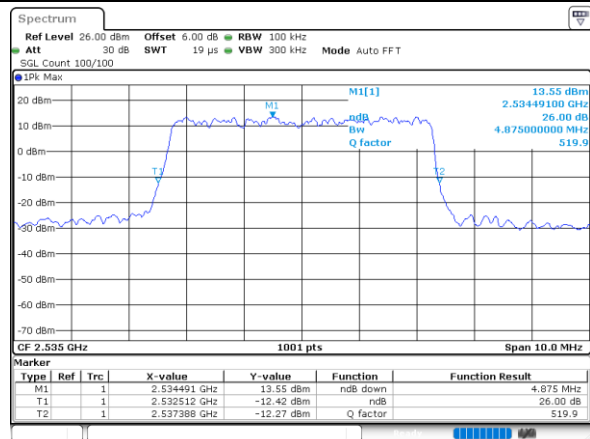
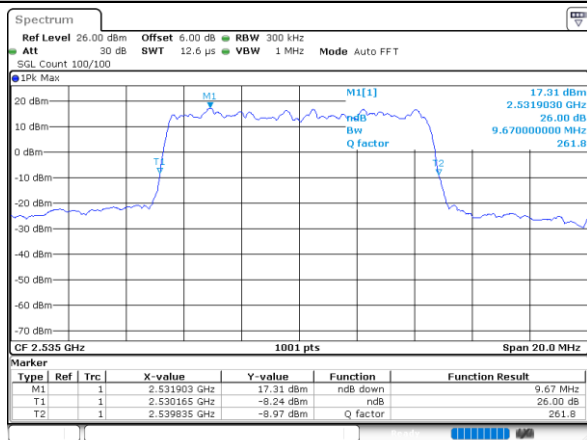
## Peak-to-Average Ratio

| Mode      | LTE Band 7 / 20MHz |         |         |         |             |
|-----------|--------------------|---------|---------|---------|-------------|
| Mod.      | QPSK               | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB            | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.87               | 5.77    | 6.23    | 6.64    | PASS        |



**26dB Bandwidth**

| Mode      | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |
|-----------|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW        | 5MHz                      |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Middle CH | 4.91                      | 4.88  | 9.67  | 9.73  | 14.24 | 14.42 | 19.06 | 18.90 |

**LTE Band 7****Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****LTE Band 7****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**