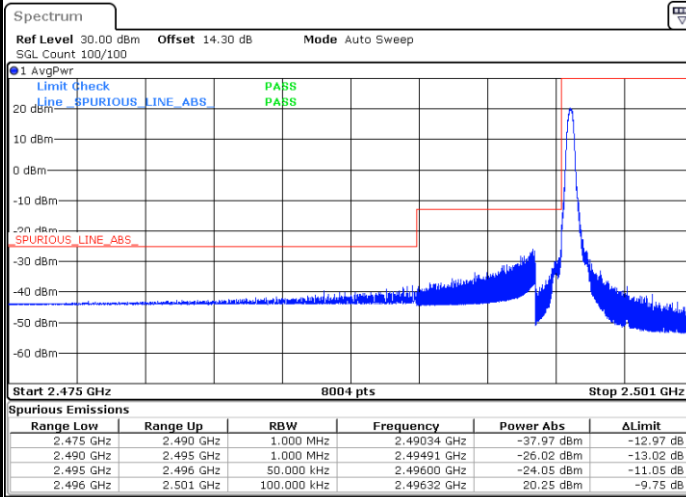


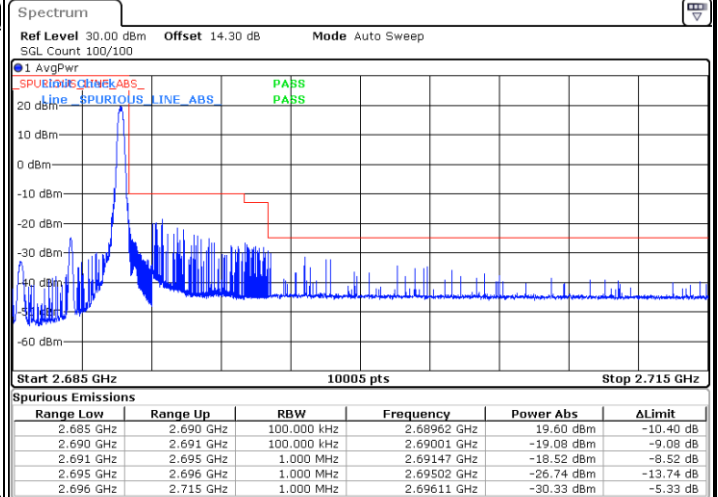


## LTE Band 41 / 5MHz / 64QAM

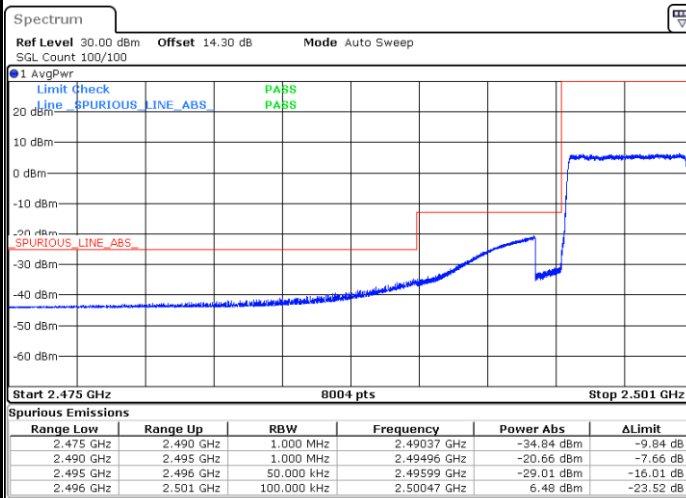
## Lowest Band Edge / 1RB



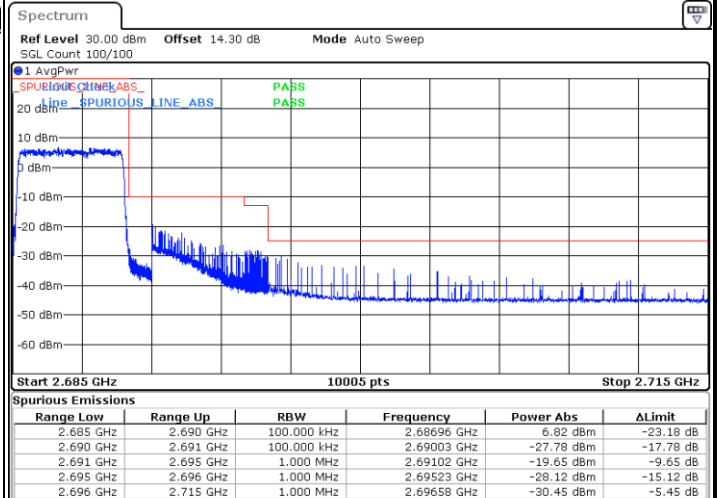
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



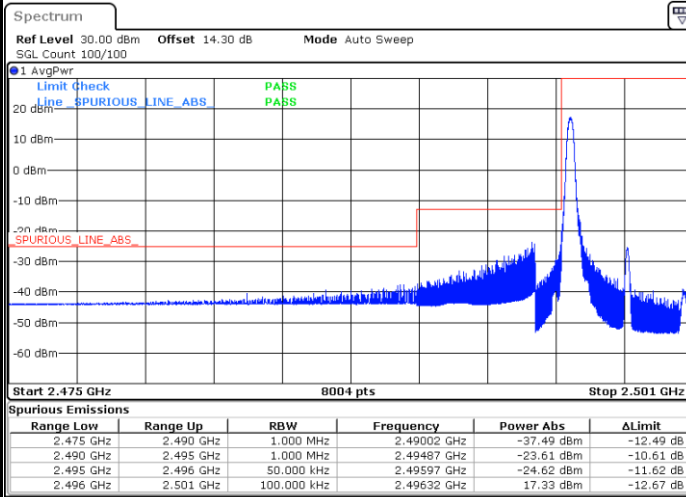
## Highest Band Edge / Full RB



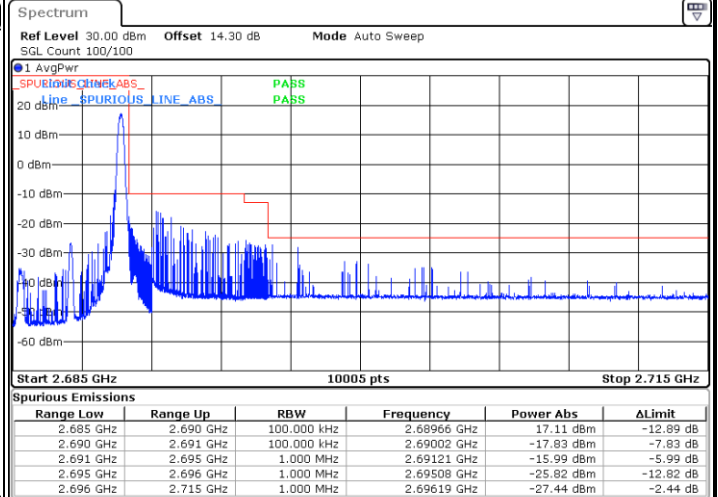


## LTE Band 41 / 5MHz / 256QAM

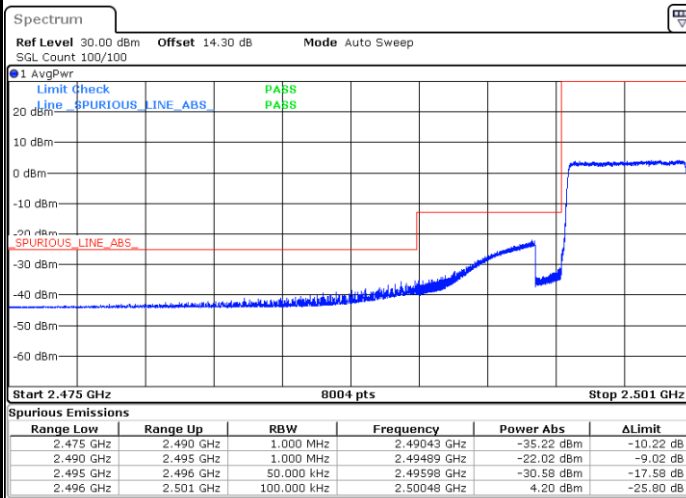
## Lowest Band Edge / 1RB



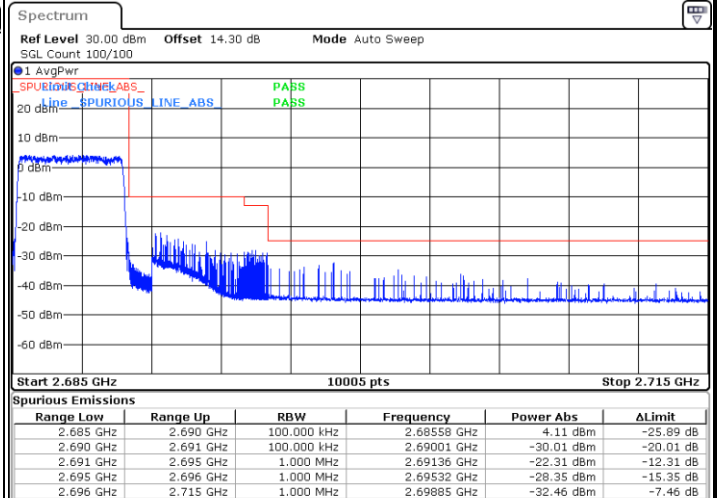
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



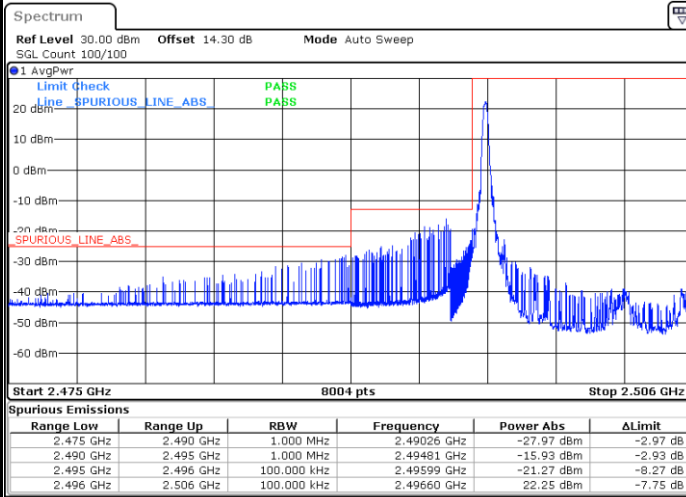
## Highest Band Edge / Full RB



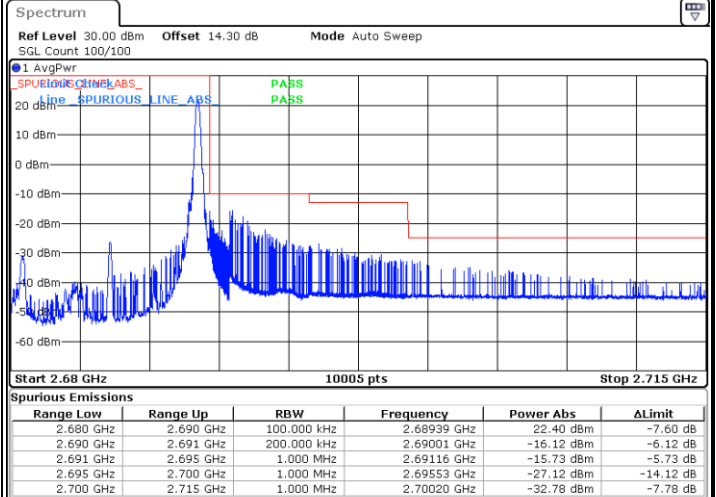


## LTE Band 41 / 10MHz / QPSK

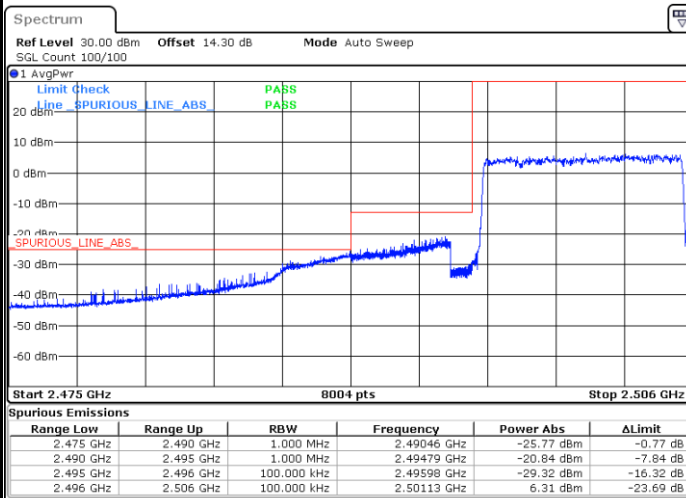
## Lowest Band Edge / 1 RB



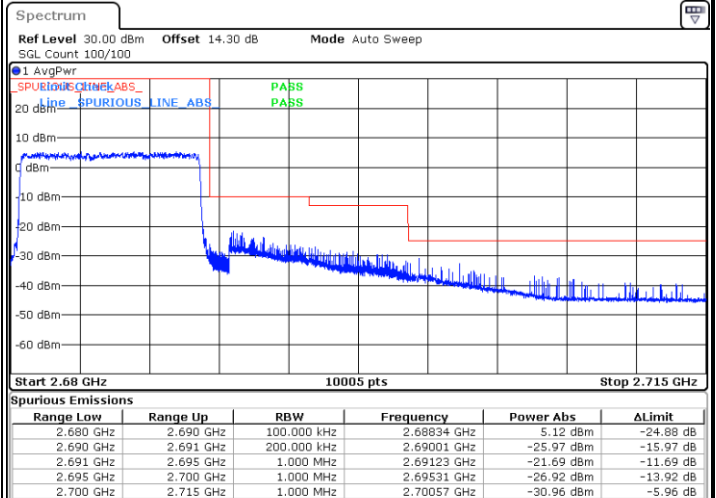
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



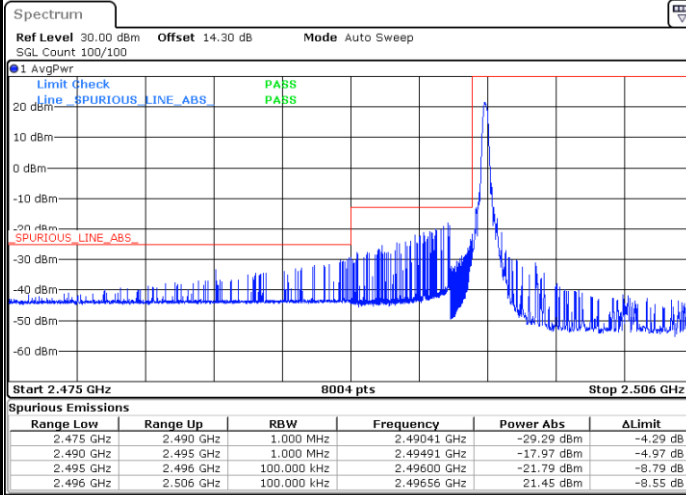
## Highest Band Edge / Full RB



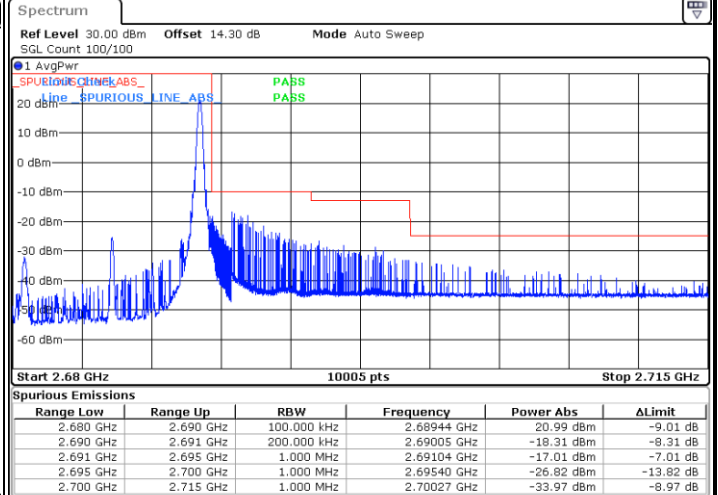


## LTE Band 41 / 10MHz / 16QAM

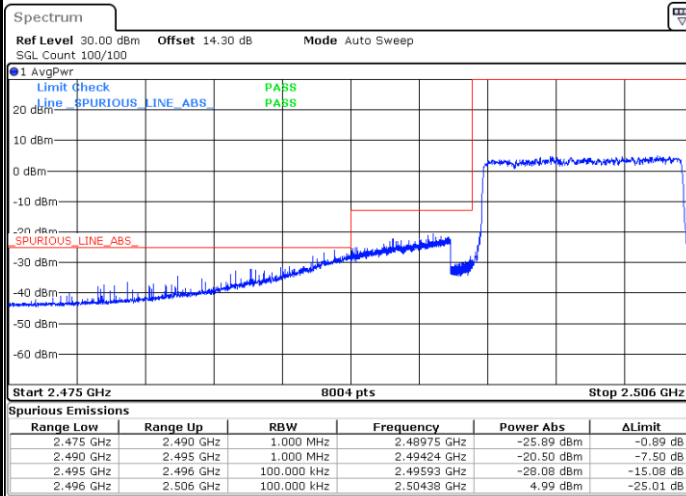
## Lowest Band Edge / 1 RB



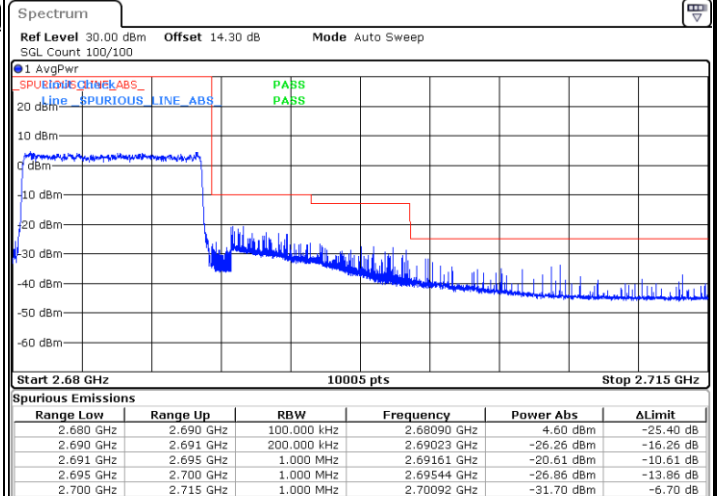
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



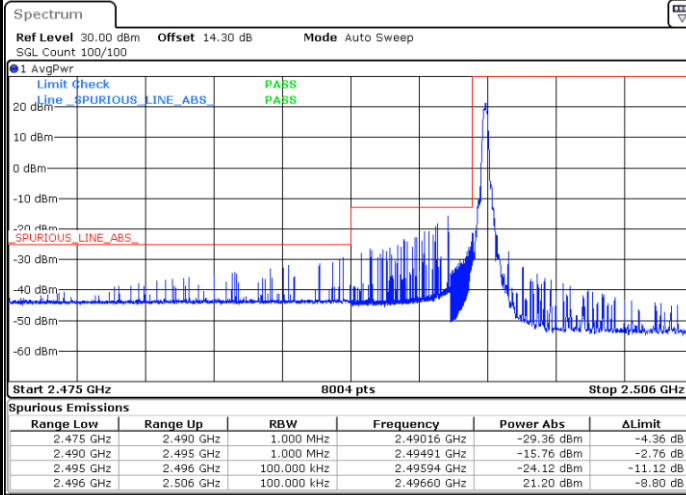
## Highest Band Edge / Full RB



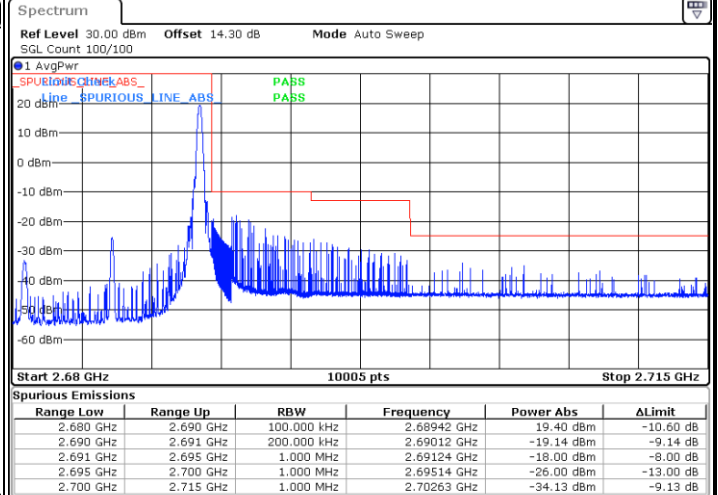


## LTE Band 41 / 10MHz / 64QAM

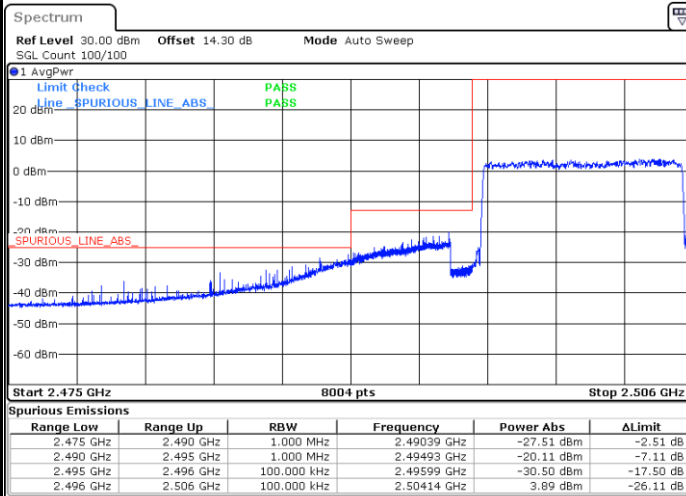
## Lowest Band Edge / 1 RB



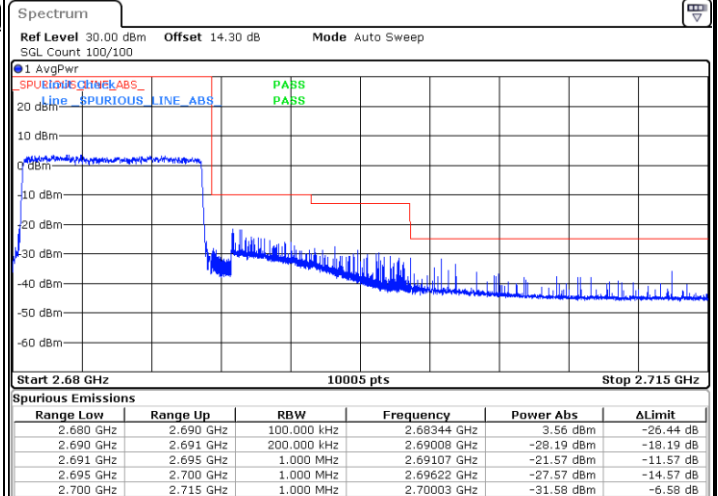
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



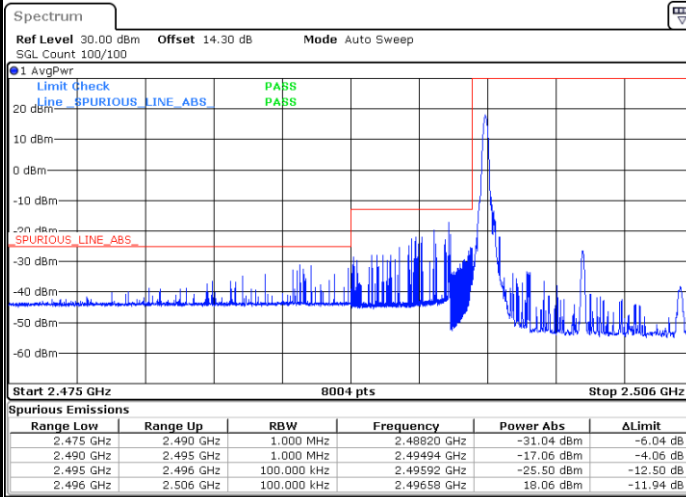
## Highest Band Edge / Full RB





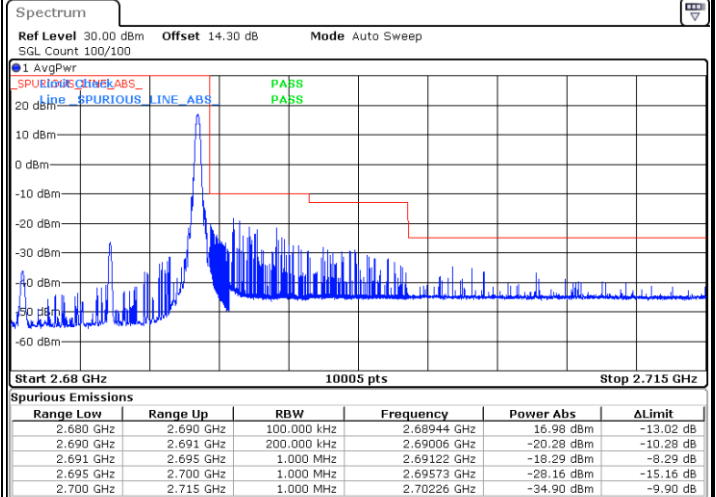
## LTE Band 41 / 10MHz / 256QAM

## Lowest Band Edge / 1 RB



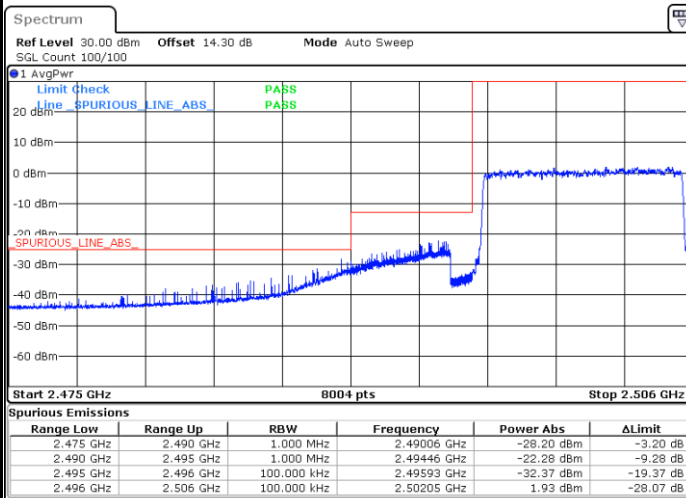
Date: 8.APR.2022 17:18:04

## Highest Band Edge / 1 RB



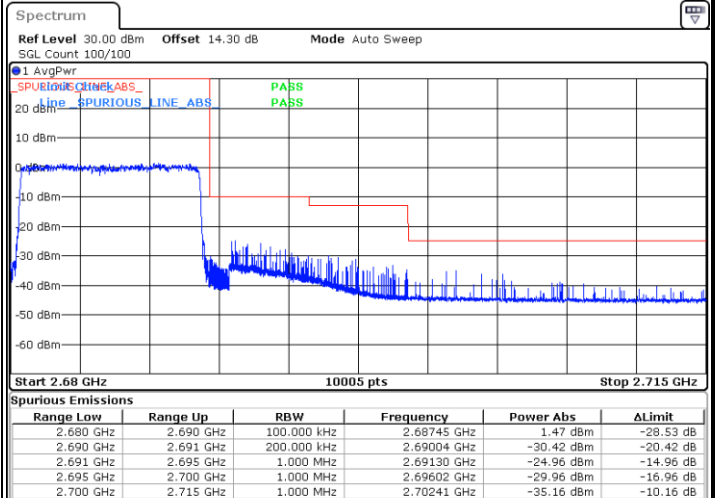
Date: 8.APR.2022 17:19:41

## Lowest Band Edge / Full RB



Date: 8.APR.2022 17:18:53

## Highest Band Edge / Full RB

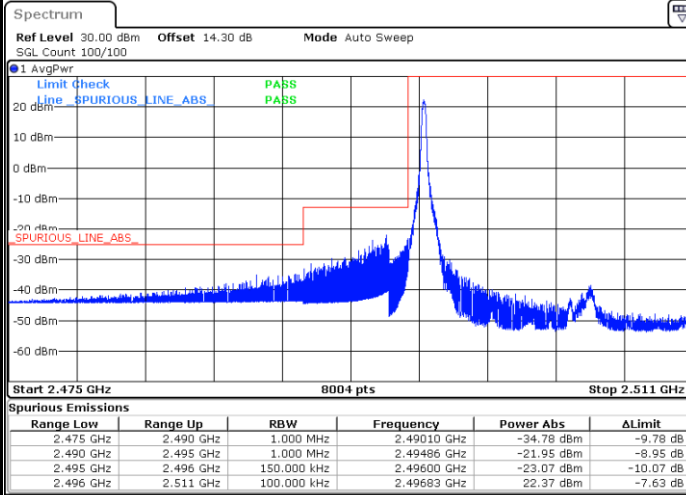


Date: 8.APR.2022 17:20:29

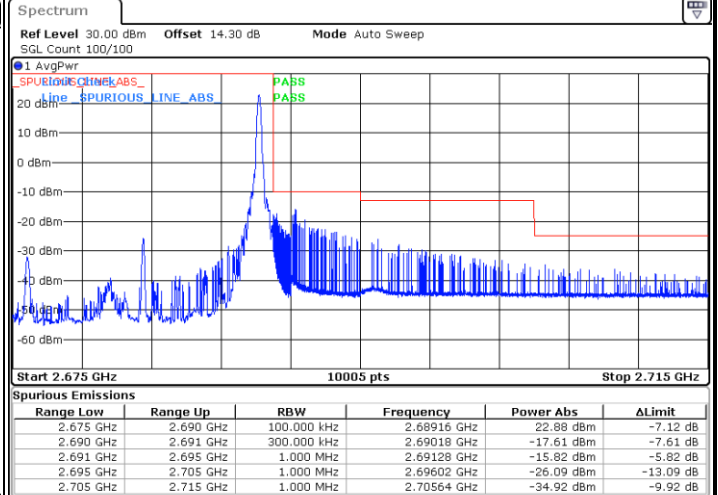


## LTE Band 41 / 15MHz / QPSK

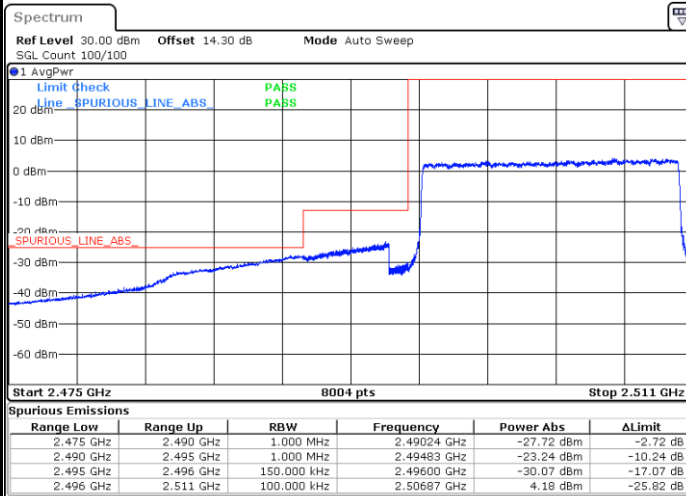
## Lowest Band Edge / 1 RB



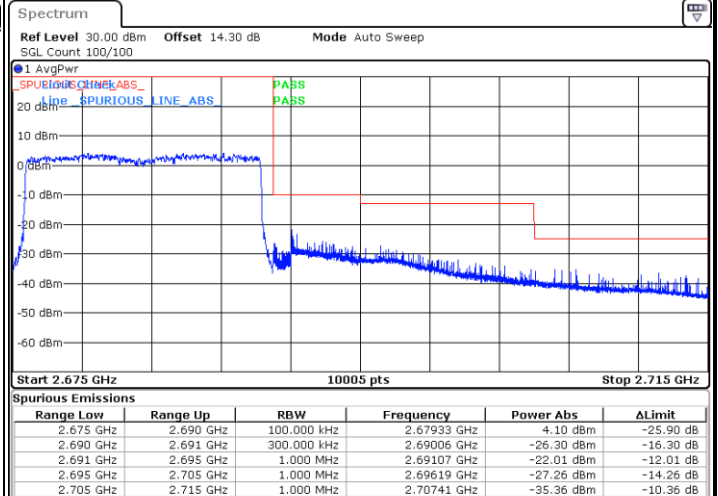
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



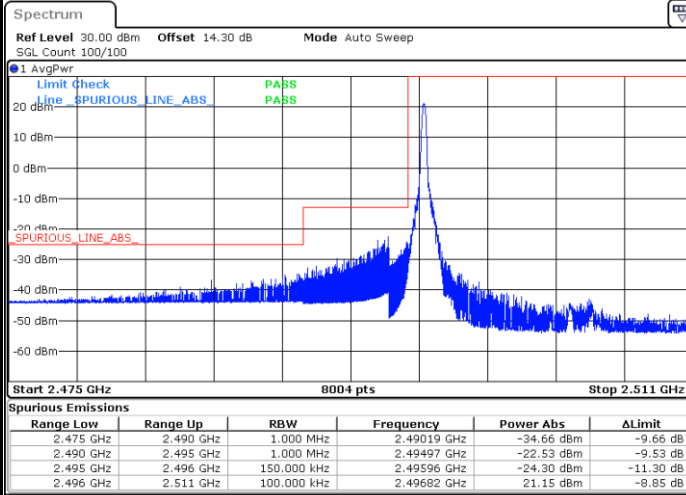
## Highest Band Edge / Full RB



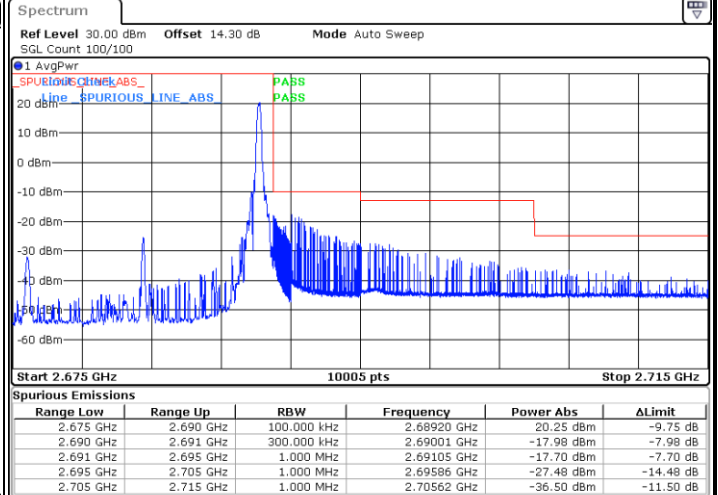


## LTE Band 41 / 15MHz / 16QAM

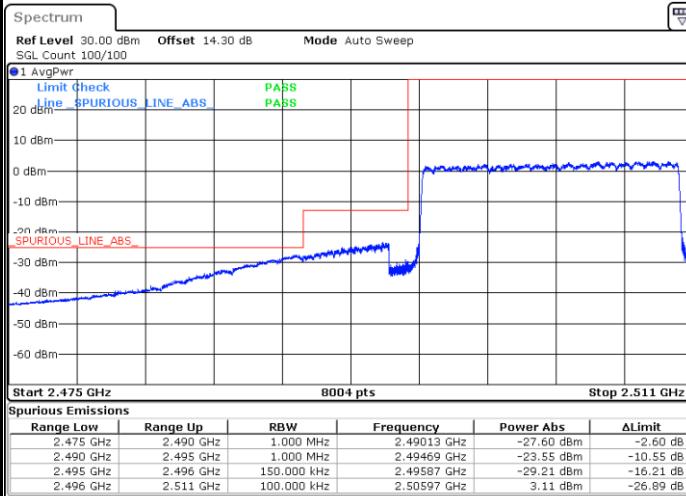
## Lowest Band Edge / 1 RB



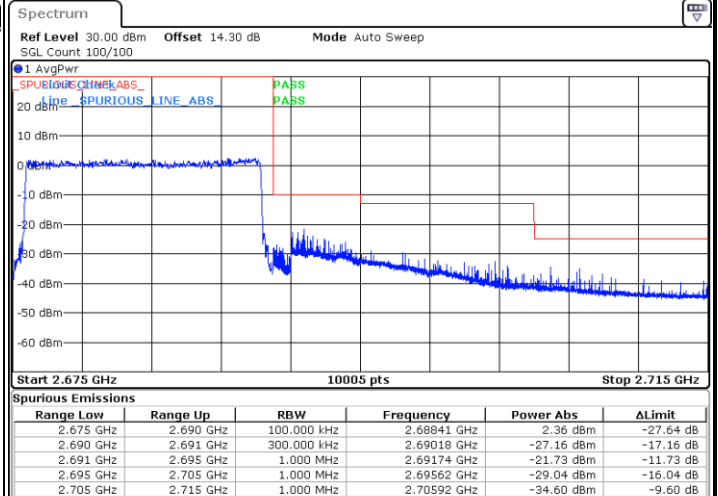
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



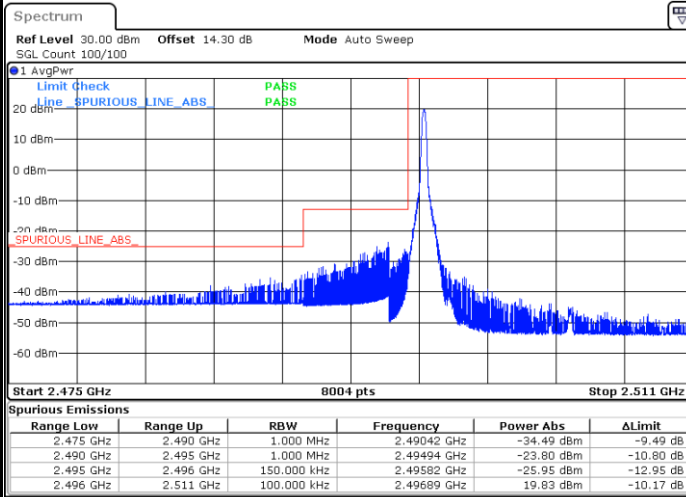
## Highest Band Edge / Full RB



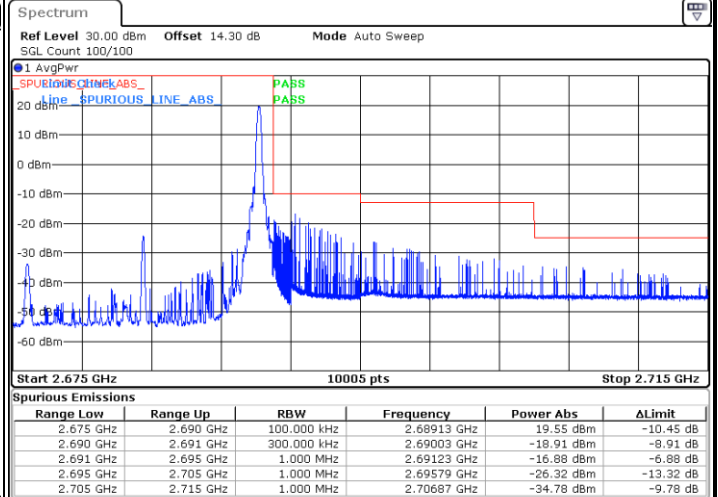


## LTE Band 41 / 15MHz / 64QAM

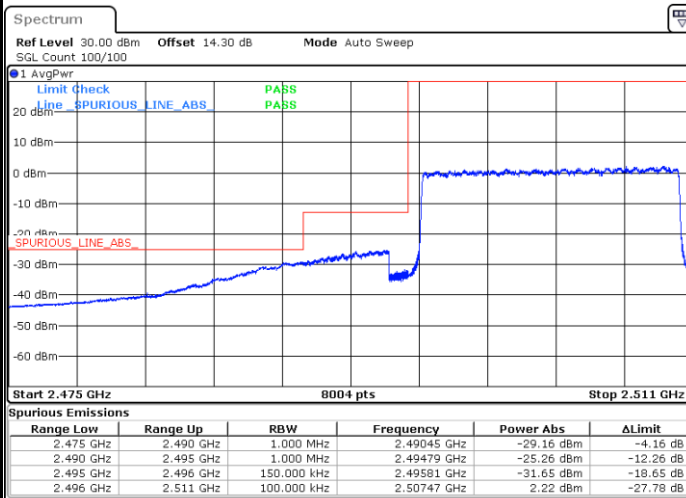
## Lowest Band Edge / 1 RB



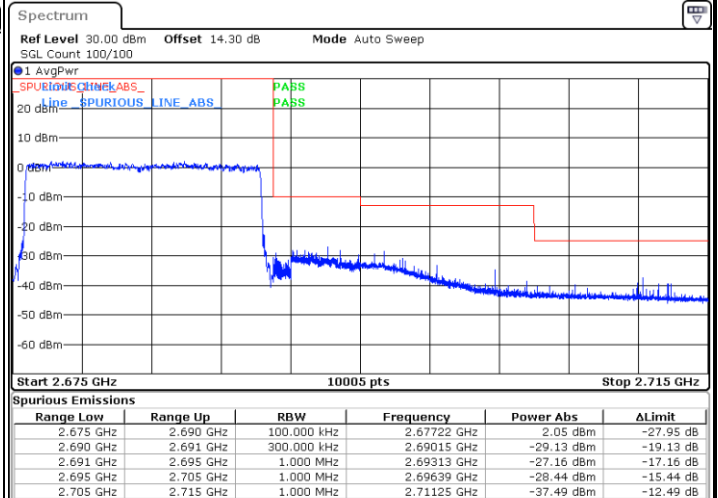
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



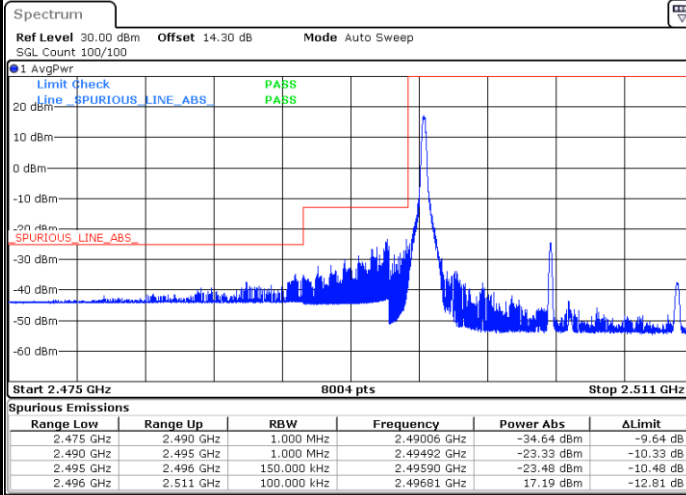
## Highest Band Edge / Full RB





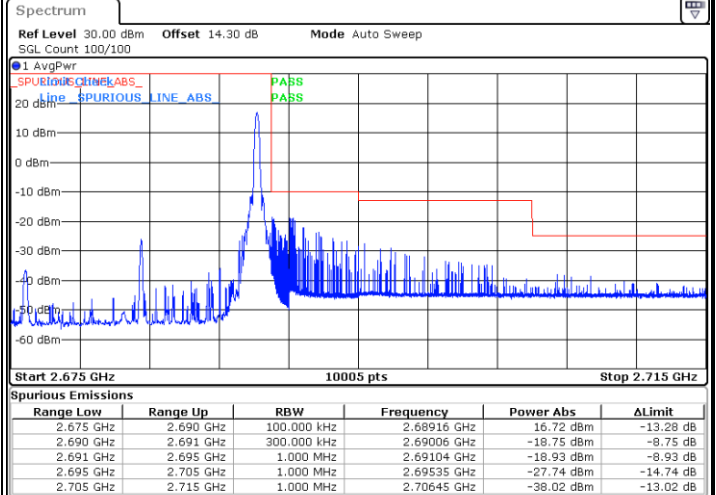
## LTE Band 41 / 15MHz / 256QAM

## Lowest Band Edge / 1 RB



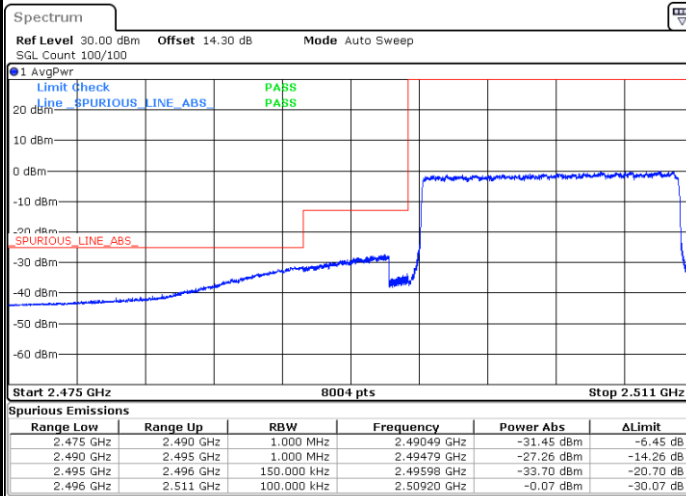
Date: 8.APR.2022 17:22:06

## Highest Band Edge / 1 RB



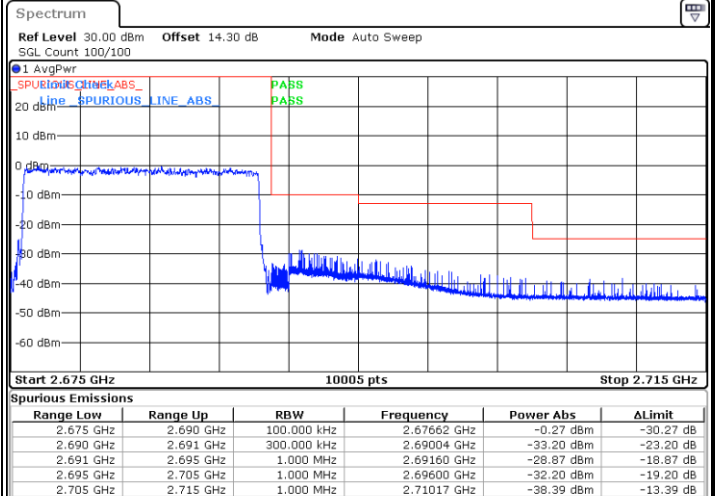
Date: 8.APR.2022 17:23:40

## Lowest Band Edge / Full RB



Date: 8.APR.2022 17:22:52

## Highest Band Edge / Full RB

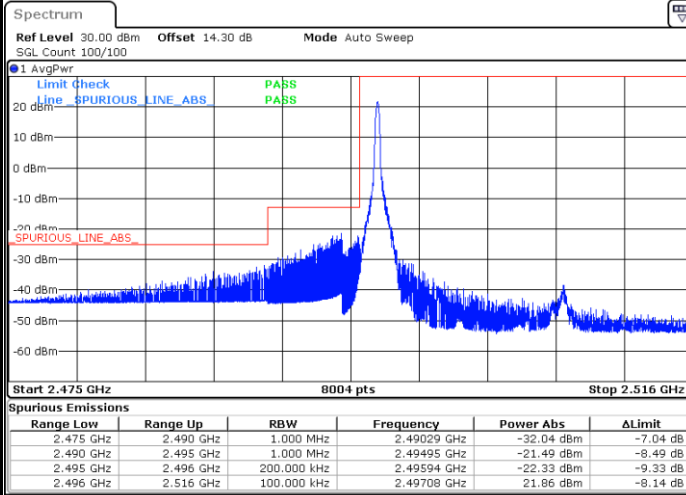


Date: 8.APR.2022 17:24:28

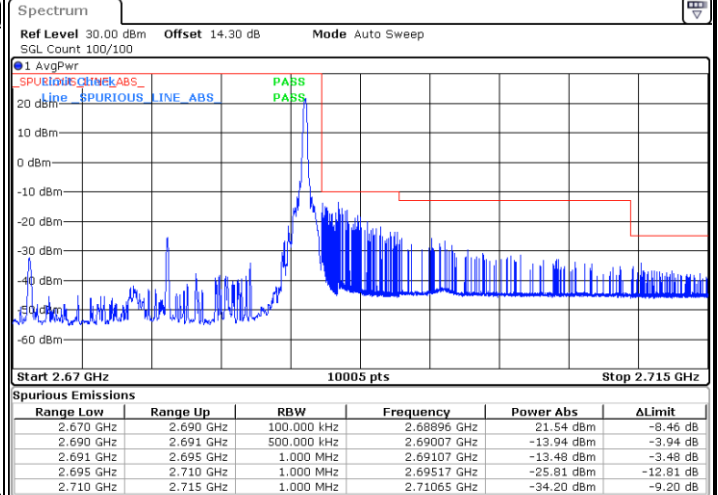


## LTE Band 41 / 20MHz / QPSK

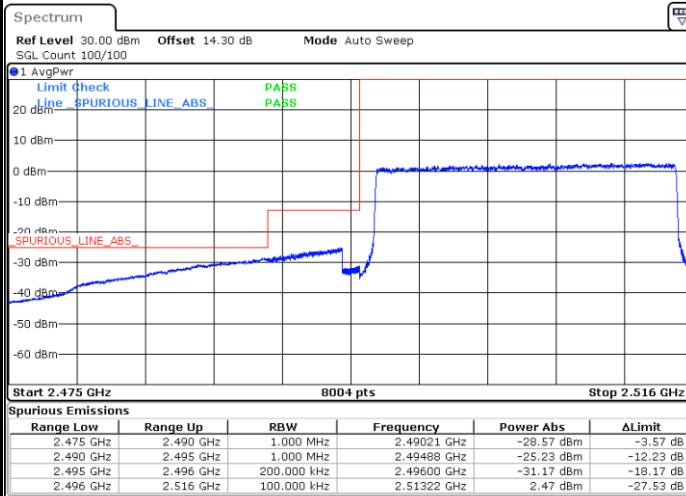
## Lowest Band Edge / 1 RB



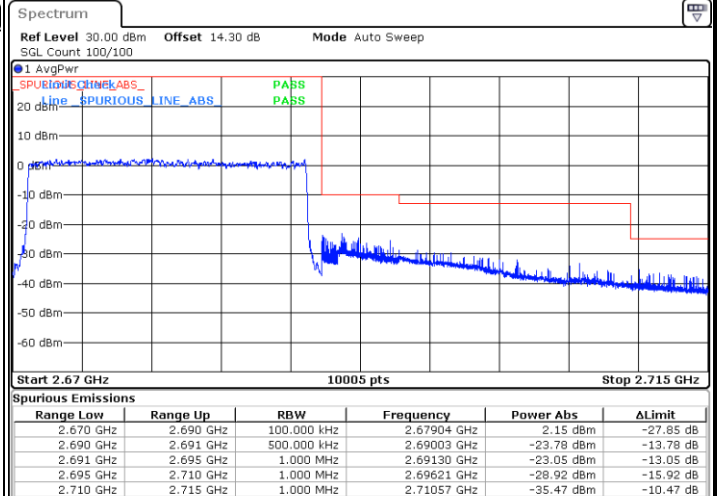
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



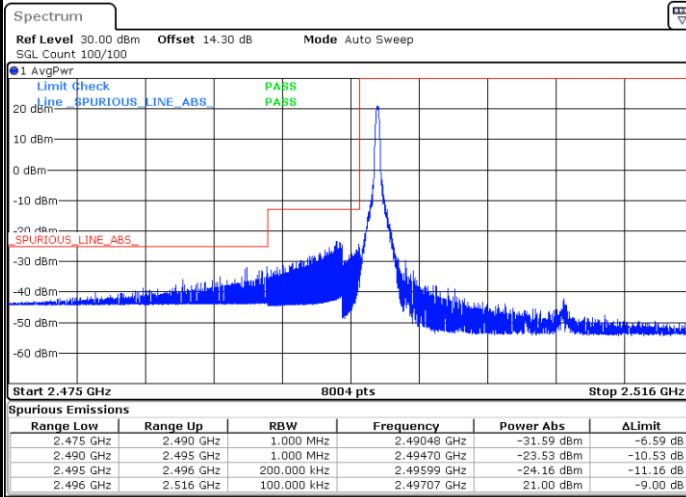
## Highest Band Edge / Full RB





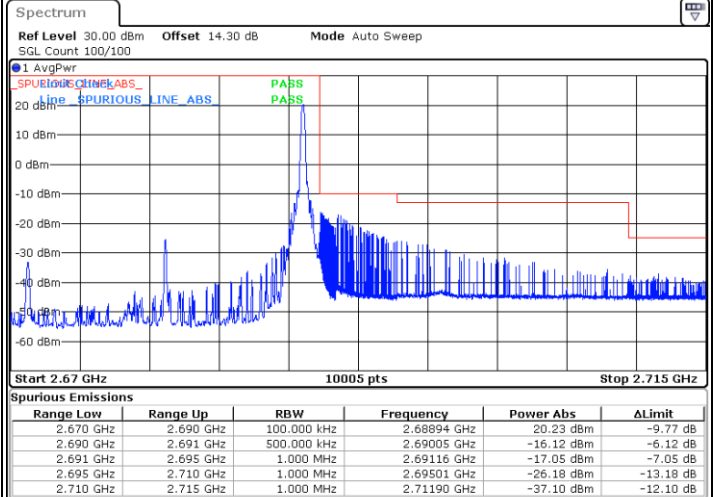
## LTE Band 41 / 20MHz / 16QAM

## Lowest Band Edge / 1 RB



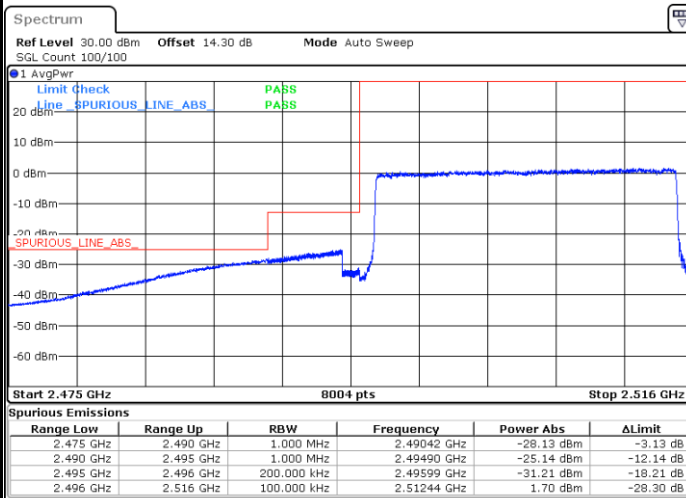
Date: 8.APR.2022 17:01:42

## Highest Band Edge / 1 RB



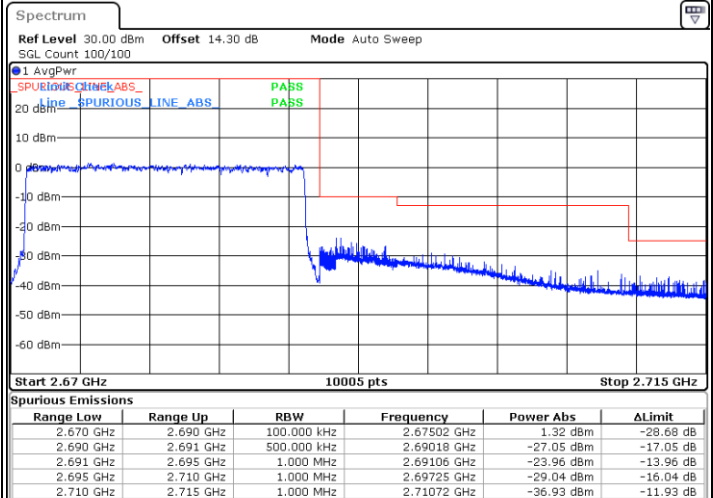
Date: 8.APR.2022 17:04:44

## Lowest Band Edge / Full RB



Date: 8.APR.2022 17:03:13

## Highest Band Edge / Full RB

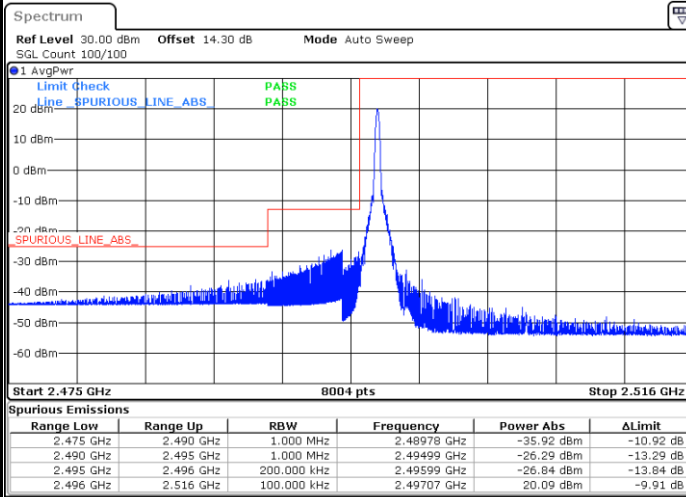


Date: 8.APR.2022 17:05:30

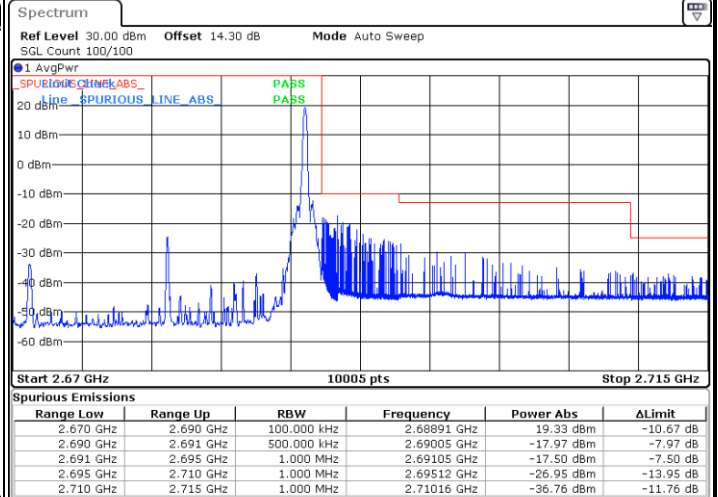


## LTE Band 41 / 20MHz / 64QAM

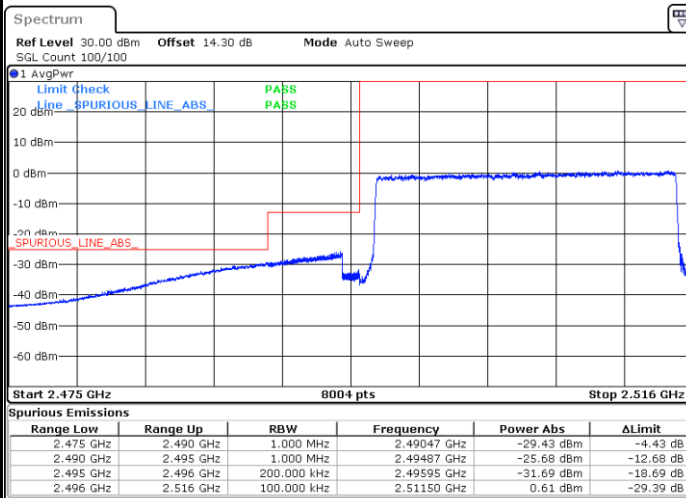
## Lowest Band Edge / 1 RB



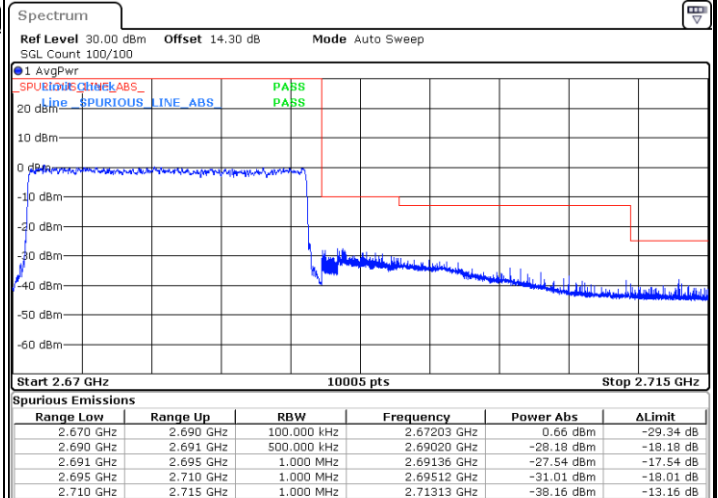
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



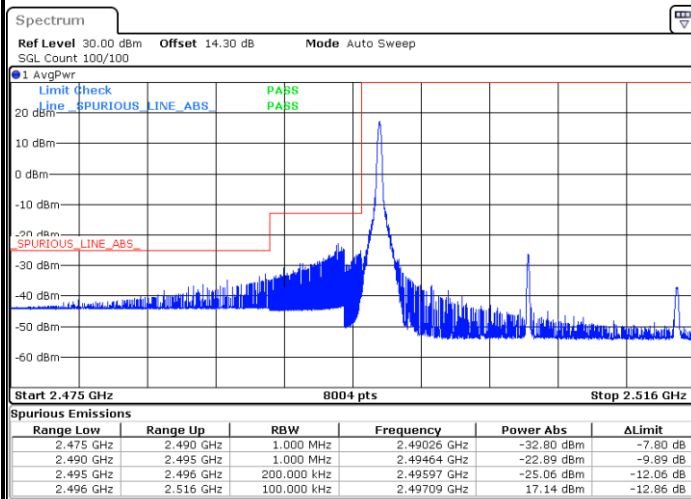
## Highest Band Edge / Full RB





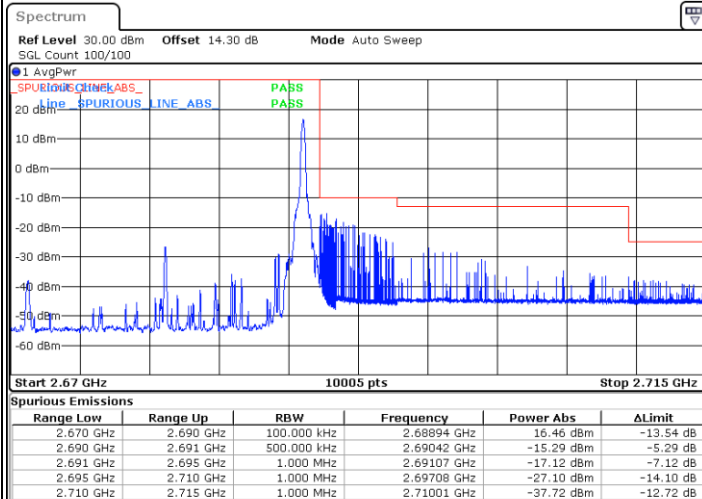
## LTE Band 41 / 20MHz / 256QAM

## Lowest Band Edge / 1 RB



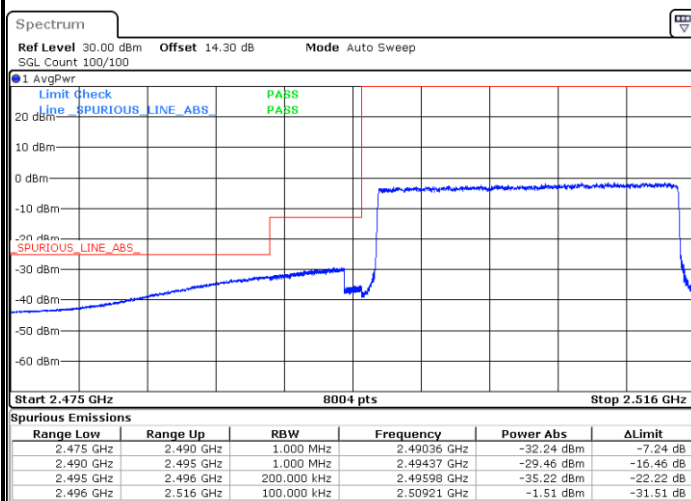
Date: 8.APR.2022 17:26:05

## Highest Band Edge / 1 RB



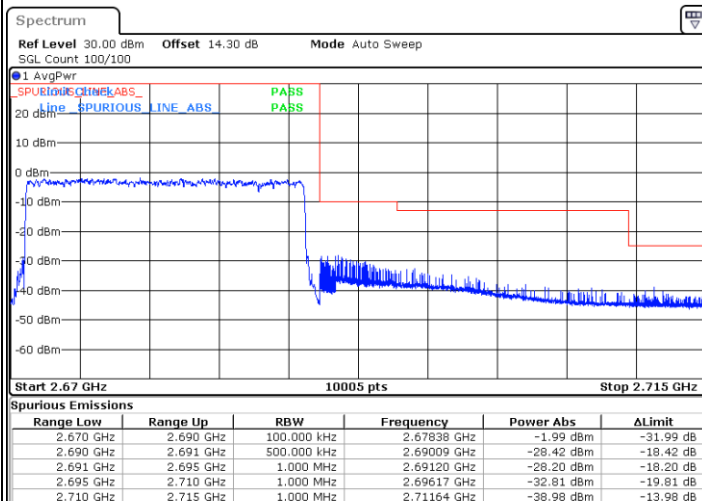
Date: 8.APR.2022 17:27:42

## Lowest Band Edge / Full RB



Date: 8.APR.2022 17:26:54

## Highest Band Edge / Full RB



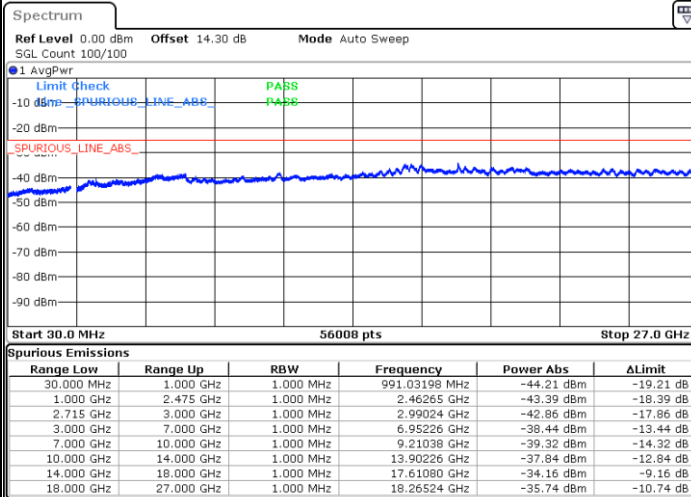
Date: 8.APR.2022 17:28:30



# Conducted Spurious Emission

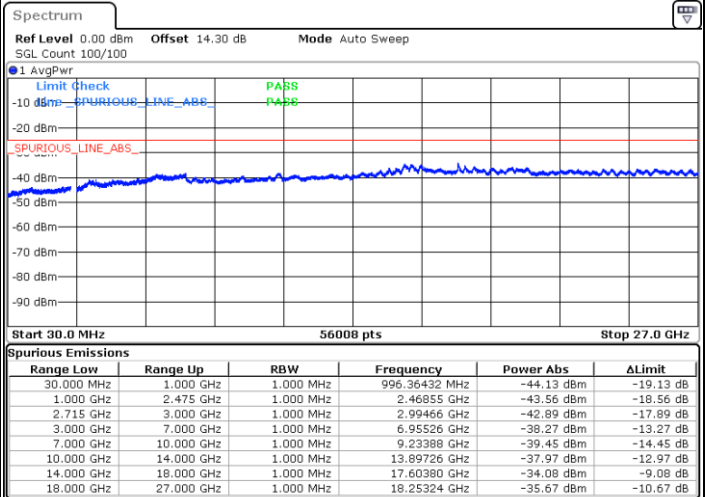
## LTE Band 41 / 5MHz

### Lowest Channel / QPSK



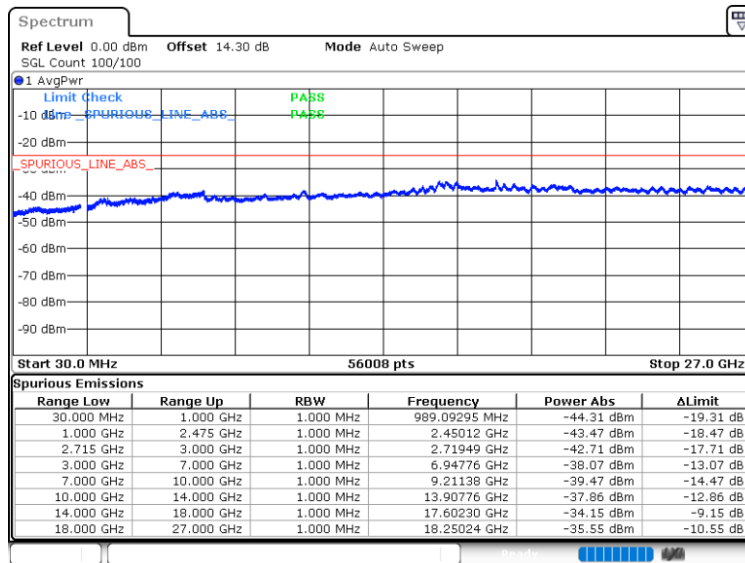
Date: 8.APR.2022 16:31:46

### Middle Channel / QPSK



Date: 8.APR.2022 16:33:01

### Highest Channel / QPSK

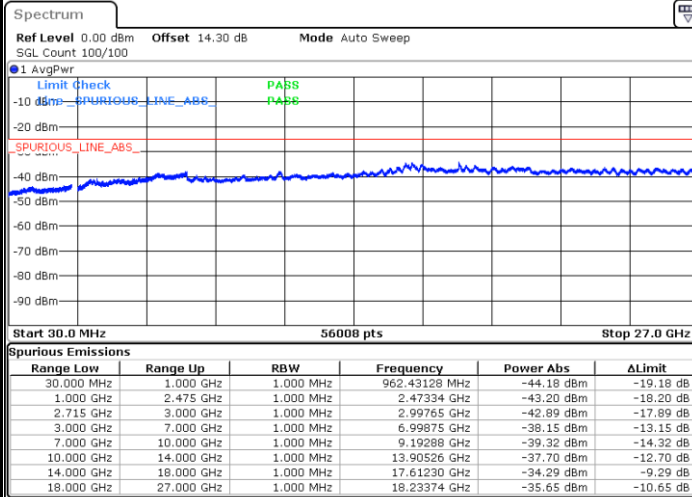


Date: 8.APR.2022 16:34:16



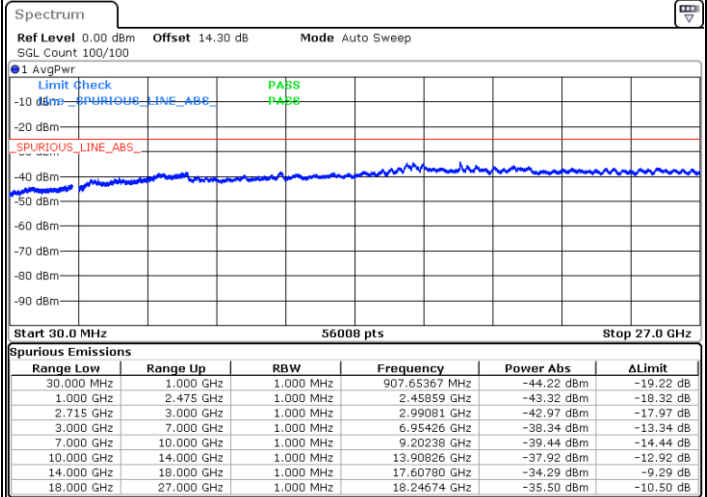
## LTE Band 41 / 10MHz

## Lowest Channel / QPSK



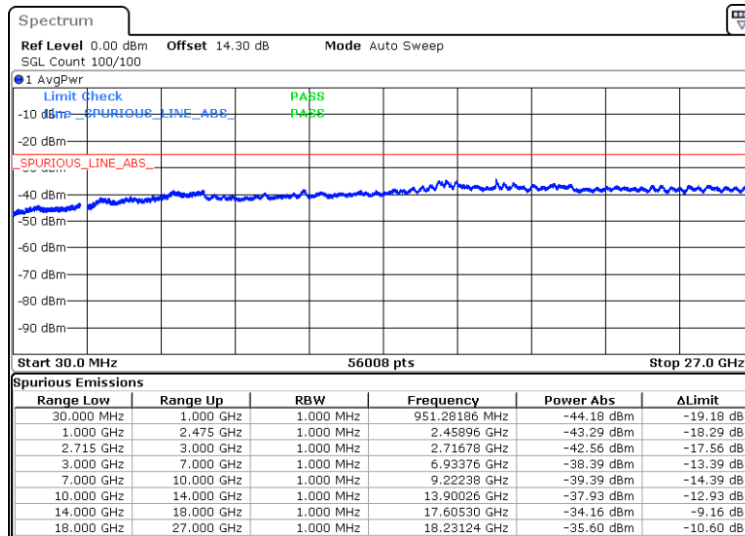
Date: 8.APR.2022 16:44:43

## Middle Channel / QPSK



Date: 8.APR.2022 16:45:58

## Highest Channel / QPSK

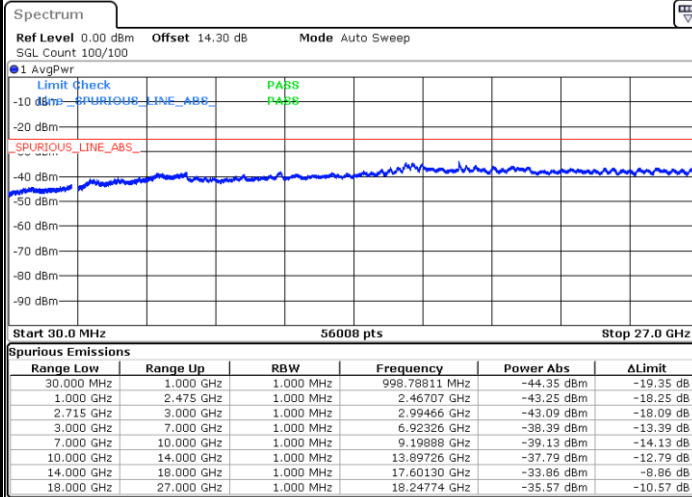


Date: 8.APR.2022 16:47:14



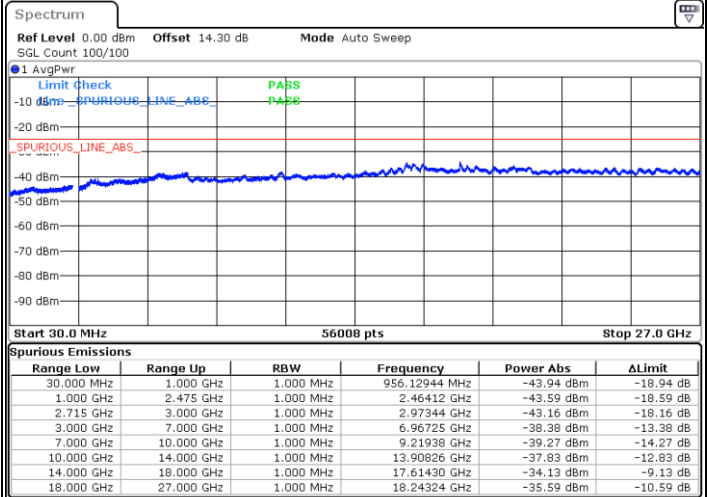
## LTE Band 41 / 15MHz

## Lowest Channel / QPSK



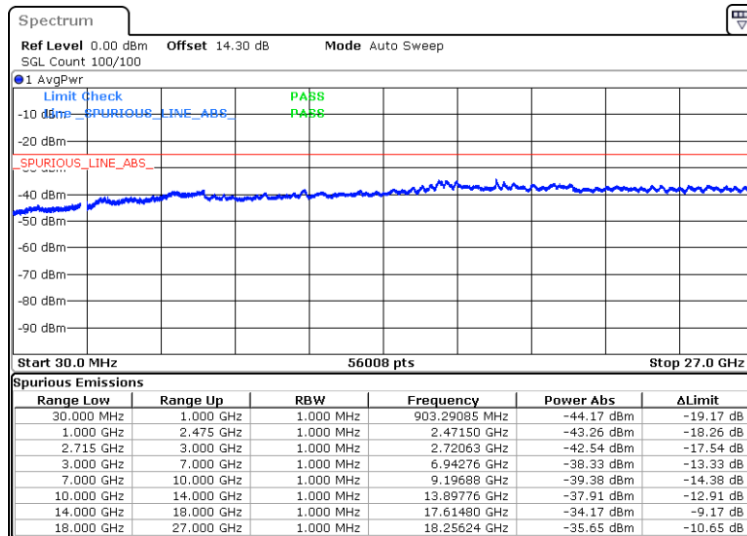
Date: 8.APR.2022 16:57:38

## Middle Channel / QPSK



Date: 8.APR.2022 16:58:54

## Highest Channel / QPSK

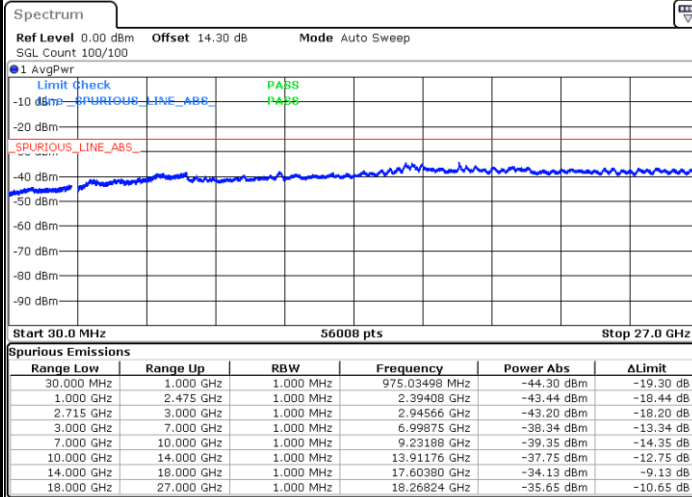


Date: 8.APR.2022 17:00:09



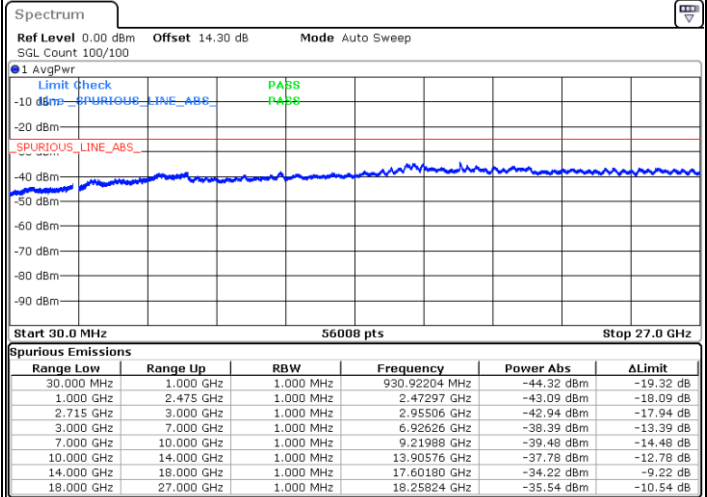
## LTE Band 41 / 20MHz

## Lowest Channel / QPSK



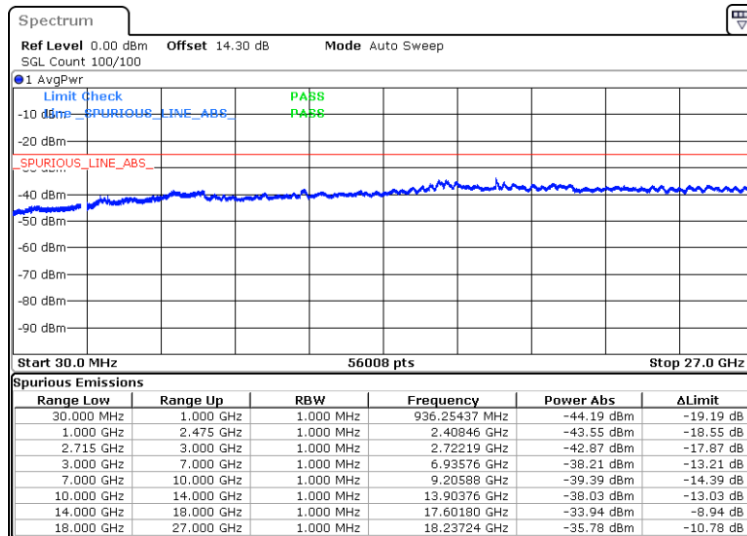
Date: 8.APR.2022 17:10:33

## Middle Channel / QPSK



Date: 8.APR.2022 17:11:48

## Highest Channel / QPSK



Date: 8.APR.2022 17:13:04

## Frequency Stability

| Test Conditions     |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                            | Note 2. |
|                     |                   | Deviation (ppm)                     | Result  |
| 50                  | Normal Voltage    | 0.0007                              | PASS    |
| 40                  | Normal Voltage    | 0.0035                              |         |
| 30                  | Normal Voltage    | 0.0004                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0016                              |         |
| 0                   | Normal Voltage    | 0.0015                              |         |
| -10                 | Normal Voltage    | 0.0043                              |         |
| -20                 | Normal Voltage    | 0.0017                              |         |
| -30                 | Normal Voltage    | 0.0057                              |         |
| 20                  | Maximum Voltage   | 0.0041                              |         |
| 20                  | Normal Voltage    | 0.0000                              |         |
| 20                  | Battery End Point | 0.0013                              |         |

**Note:**

1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



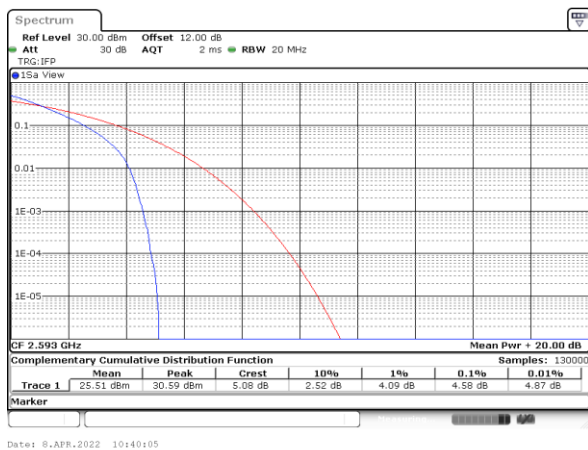
## LTE Band 41\_HPUE

## Peak-to-Average Ratio

| Mode      | LTE Band 41 / 20MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.58                | 5.54    | 5.51    | 6.78    | PASS        |

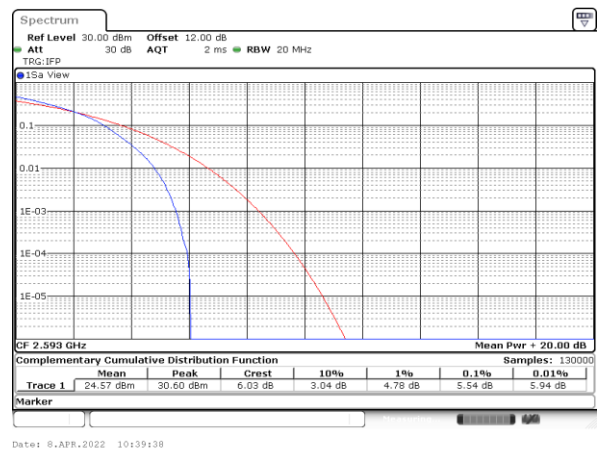
LTE Band 41 / 20MHz / QPSK

Middle Channel / Full RB



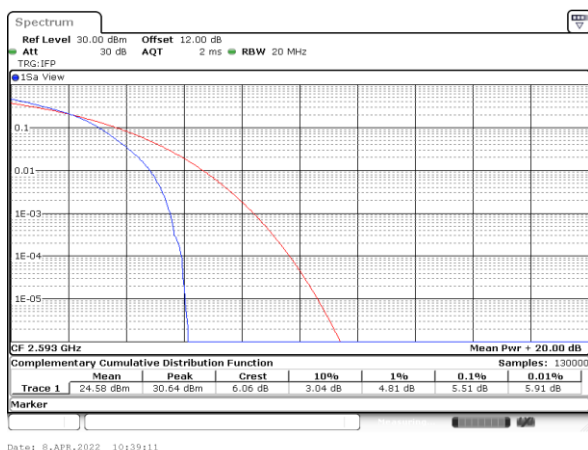
LTE Band 41 / 20MHz / 16QAM

Middle Channel / Full RB



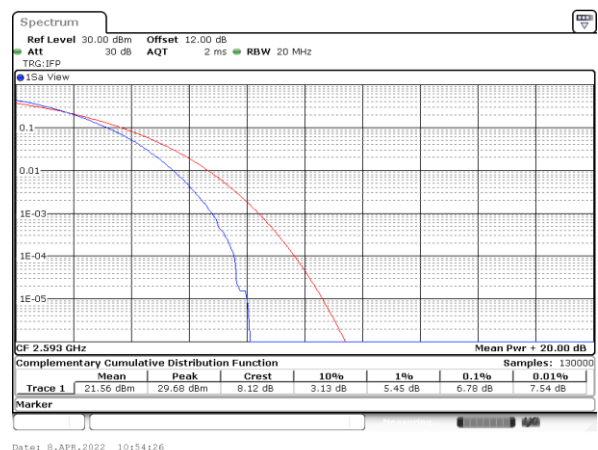
LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 41 / 20MHz / 256QAM

Middle Channel / Full RB



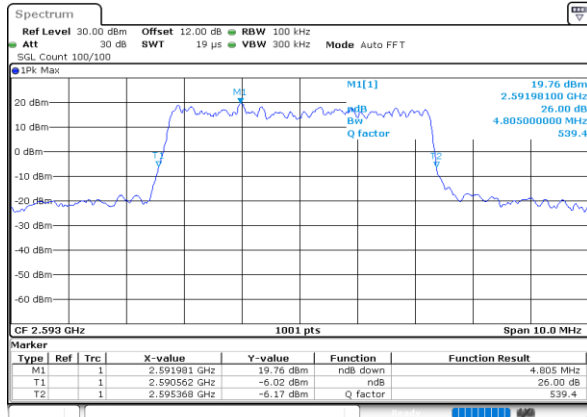
**26dB Bandwidth**

| Mode      | LTE Band 41 : 26dB BW(MHz) |         |       |         |       |         |       |         |       |         |       |         |
|-----------|----------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| BW        | 1.4MHz                     |         | 3MHz  |         | 5MHz  |         | 10MHz |         | 15MHz |         | 20MHz |         |
| Mod.      | QPSK                       | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   |
| Middle CH | -                          | -       | -     | -       | 4.81  | 4.75    | 9.71  | 9.67    | 14.24 | 14.54   | 18.78 | 18.94   |
| Mode      | LTE Band 41 : 26dB BW(MHz) |         |       |         |       |         |       |         |       |         |       |         |
| BW        | 1.4MHz                     |         | 3MHz  |         | 5MHz  |         | 10MHz |         | 15MHz |         | 20MHz |         |
| Mod.      | 64QAM                      | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM |
| Middle CH | -                          | -       | -     | -       | 4.82  | 4.95    | 9.63  | 9.61    | 14.18 | 14.42   | 19.10 | 18.74   |

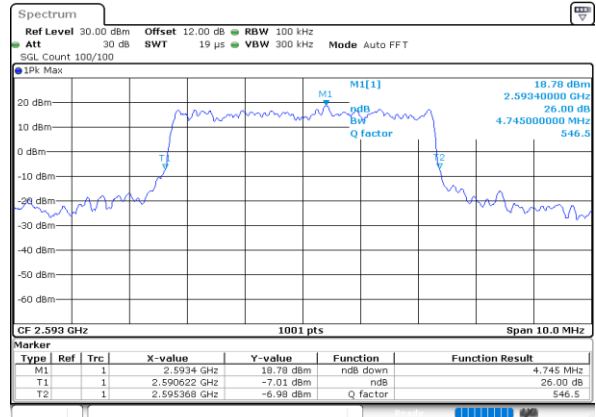


## LTE Band 41

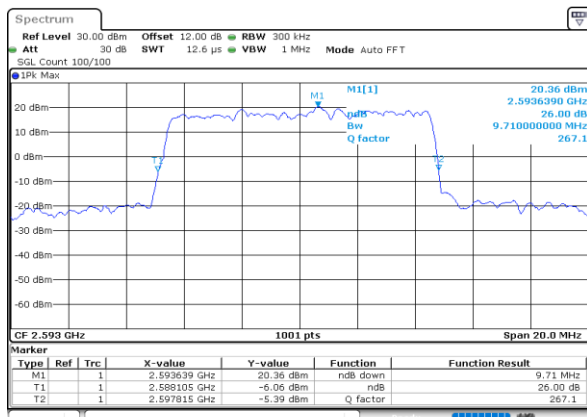
## Middle Channel / 5MHz / QPSK



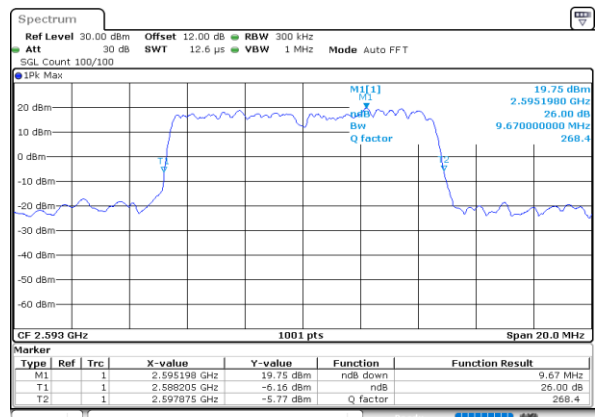
## Middle Channel / 5MHz / 16QAM



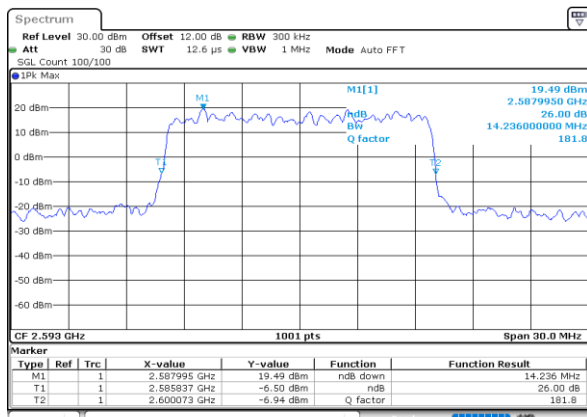
## Middle Channel / 10MHz / QPSK



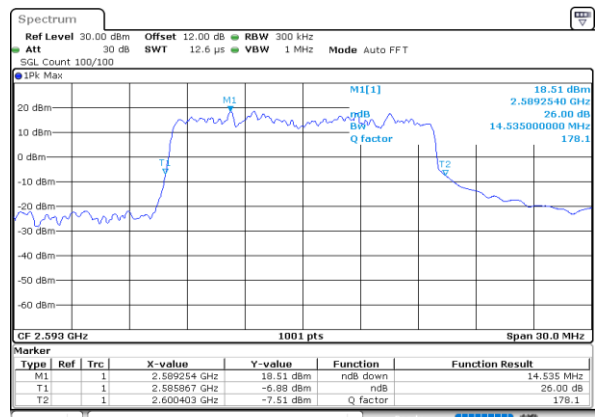
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK

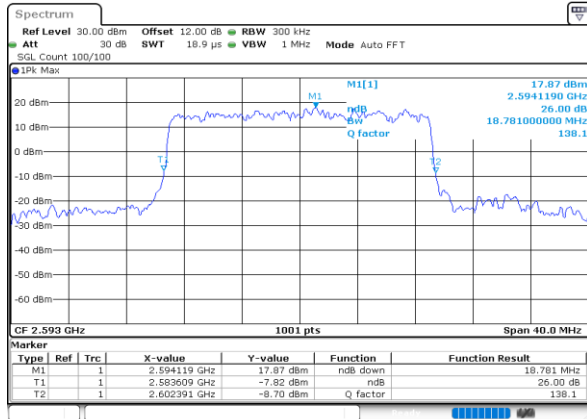


## Middle Channel / 15MHz / 16QAM

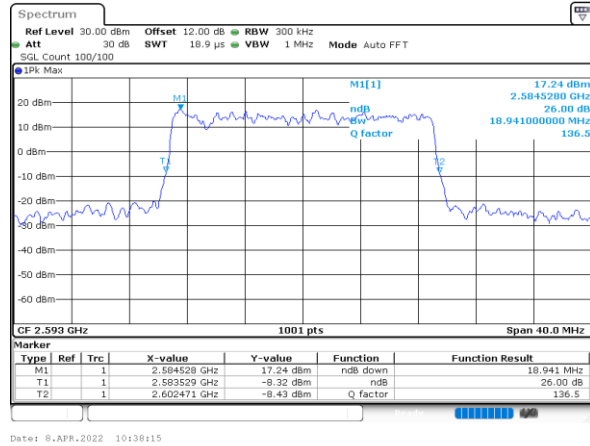


### LTE Band 41

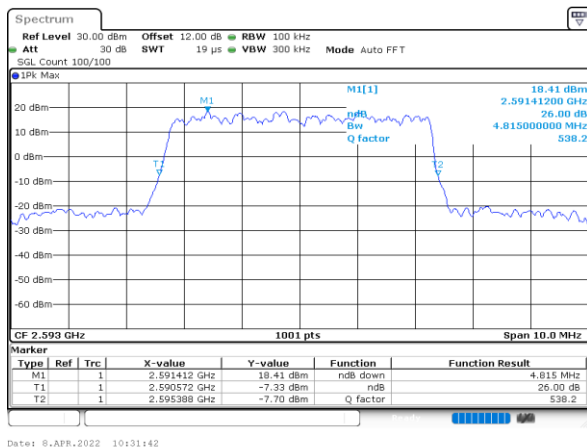
#### Middle Channel / 20MHz / QPSK



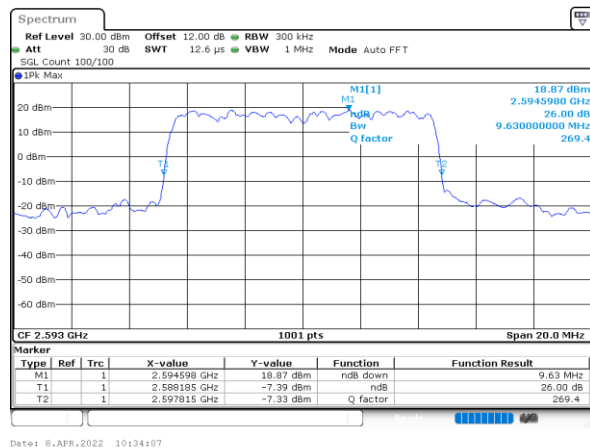
#### Middle Channel / 20MHz / 16QAM



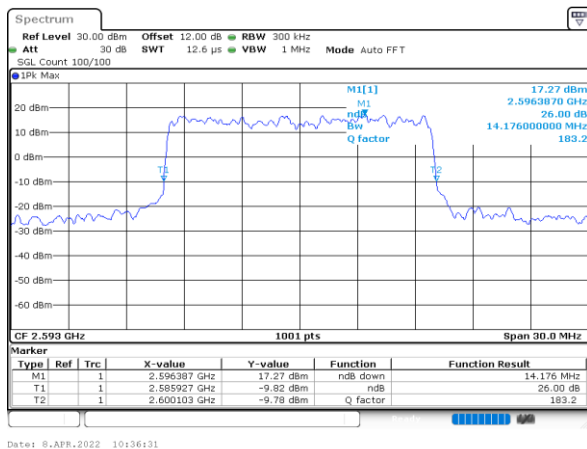
#### Middle Channel / 5MHz / 64QAM



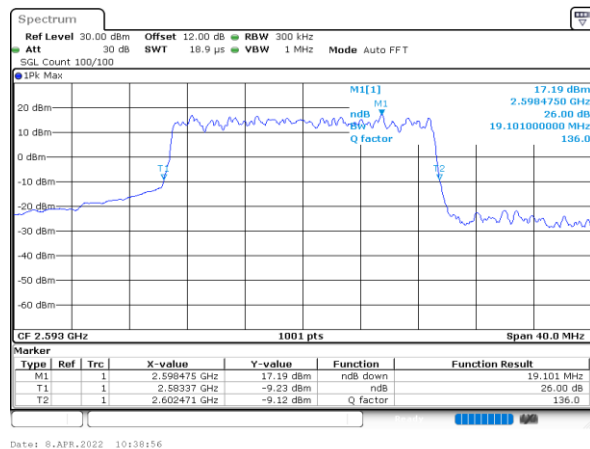
#### Middle Channel / 10MHz / 64QAM



#### Middle Channel / 15MHz / 64QAM



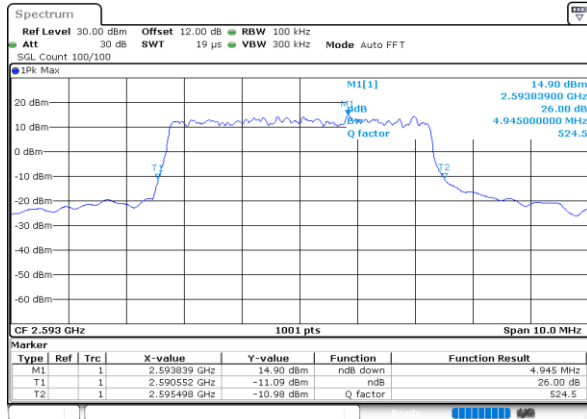
#### Middle Channel / 20MHz / 64QAM



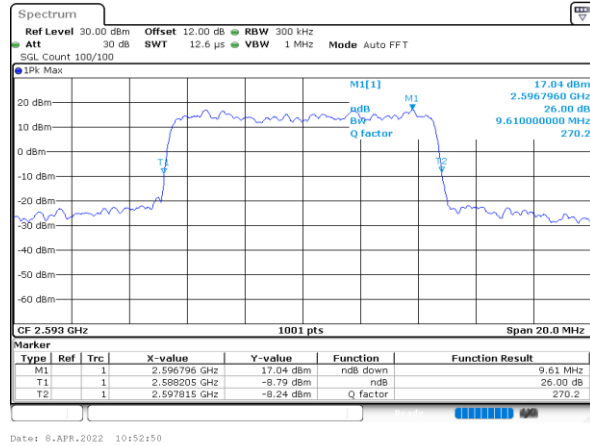


## LTE Band 41

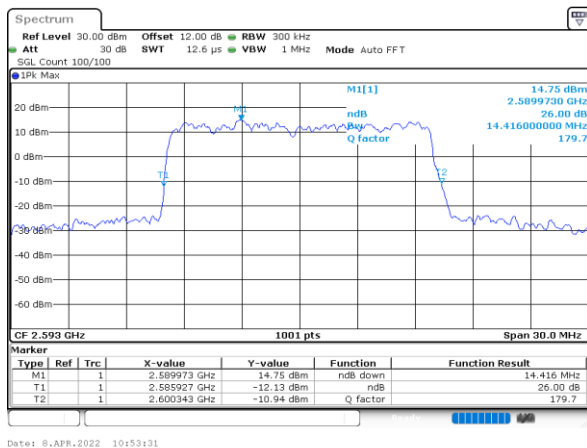
## Middle Channel / 5MHz / 256QAM



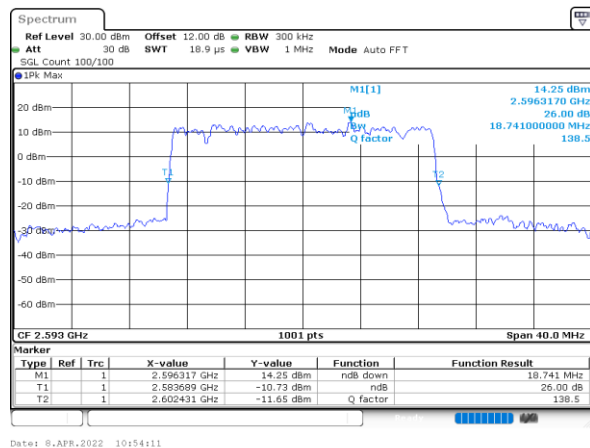
## Middle Channel / 10MHz / 256QAM



## Middle Channel / 15MHz / 256QAM



## Middle Channel / 20MHz / 256QAM



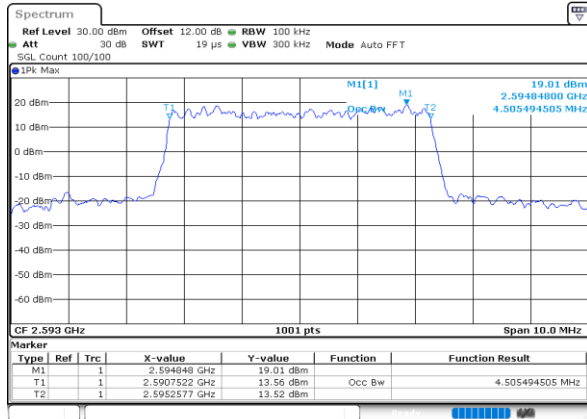
**Occupied Bandwidth**

| Mode      | LTE Band 41 : 99%OBW(MHz) |         |       |         |       |         |       |         |       |         |       |         |
|-----------|---------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| BW        | 1.4MHz                    |         | 3MHz  |         | 5MHz  |         | 10MHz |         | 15MHz |         | 20MHz |         |
| Mod.      | QPSK                      | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   | QPSK  | 16QAM   |
| Middle CH | -                         | -       | -     | -       | 4.51  | 4.48    | 9.01  | 9.07    | 13.58 | 13.49   | 17.86 | 17.90   |
| Mode      | LTE Band 41 : 99%OBW(MHz) |         |       |         |       |         |       |         |       |         |       |         |
| BW        | 1.4MHz                    |         | 3MHz  |         | 5MHz  |         | 10MHz |         | 15MHz |         | 20MHz |         |
| Mod.      | 64QAM                     | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM |
| Middle CH | -                         | -       | -     | -       | 4.51  | 4.48    | 9.01  | 9.03    | 13.43 | 13.52   | 17.86 | 17.94   |

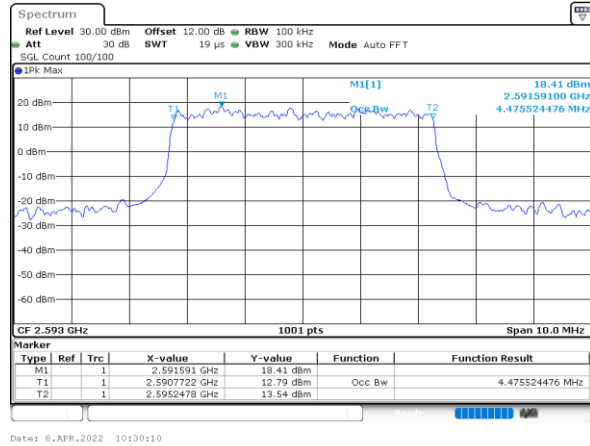


## LTE Band 41

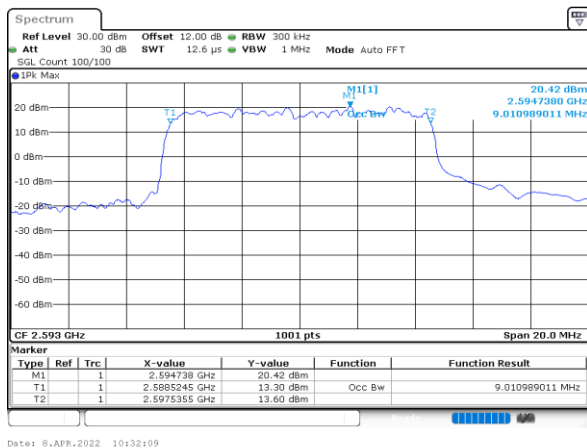
## Middle Channel / 5MHz / QPSK



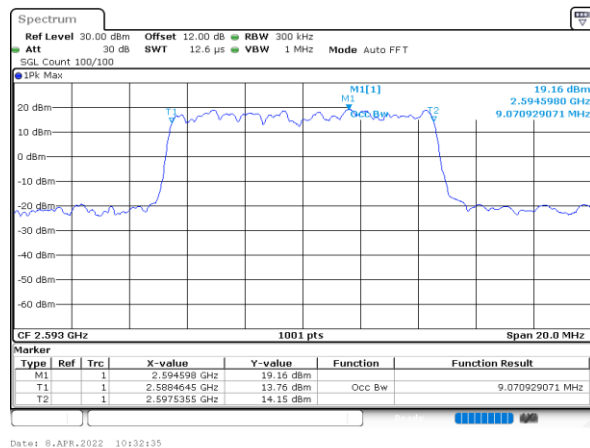
## Middle Channel / 5MHz / 16QAM



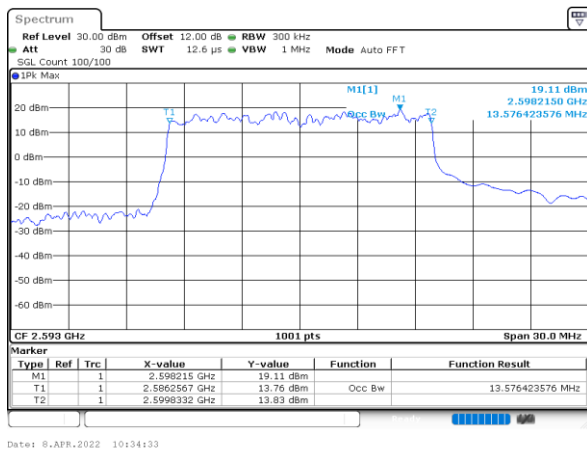
## Middle Channel / 10MHz / QPSK



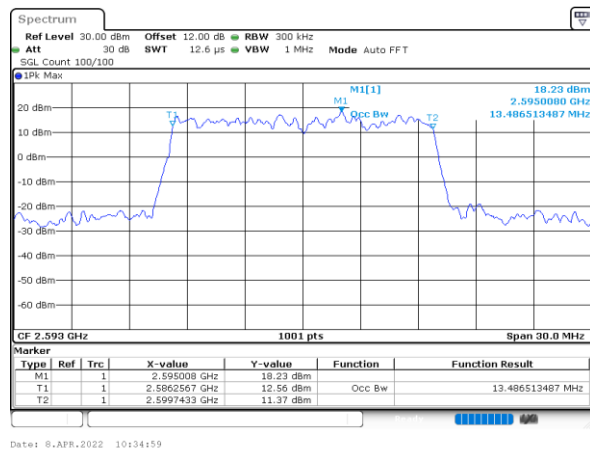
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK



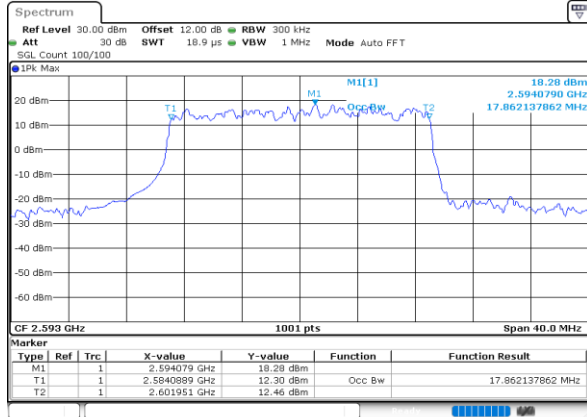
## Middle Channel / 15MHz / 16QAM



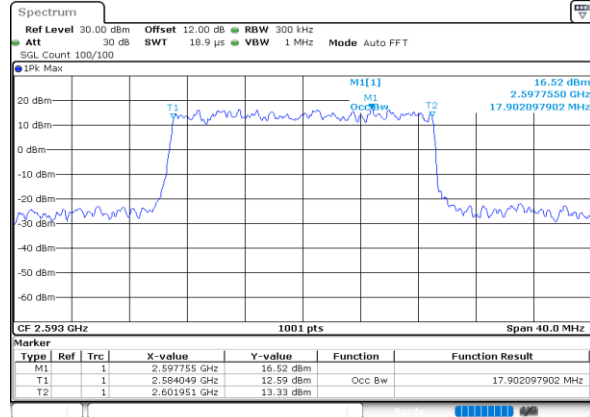


## LTE Band 41

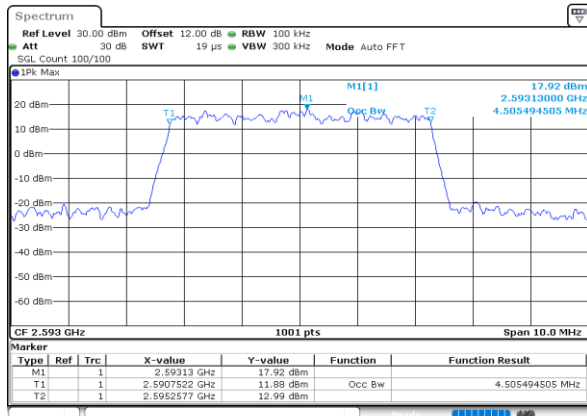
## Middle Channel / 20MHz / QPSK



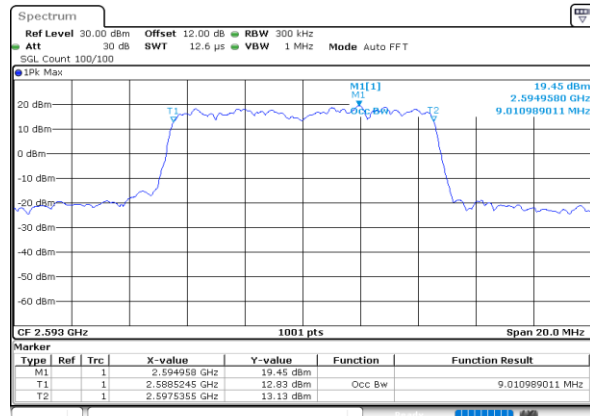
## Middle Channel / 20MHz / 16QAM



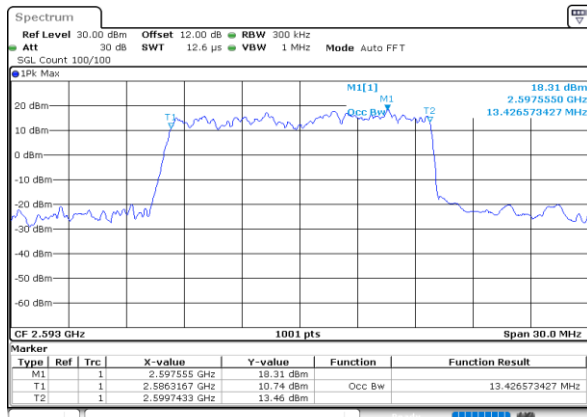
## Middle Channel / 5MHz / 64QAM



## Middle Channel / 10MHz / 64QAM



## Middle Channel / 15MHz / 64QAM



## Middle Channel / 20MHz / 64QAM

