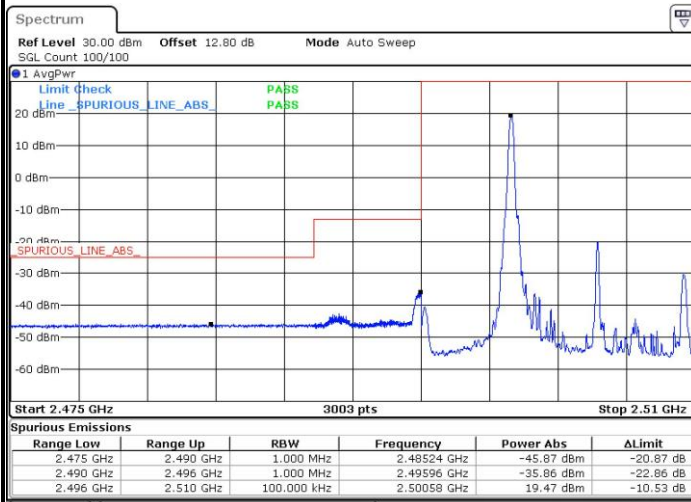




## LTE Band 7 / 10MHz / 16QAM

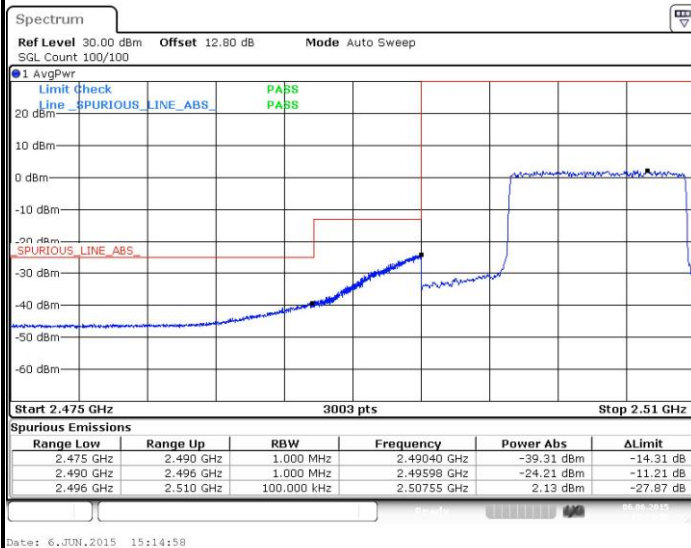
## Lowest Band Edge / 1 RB



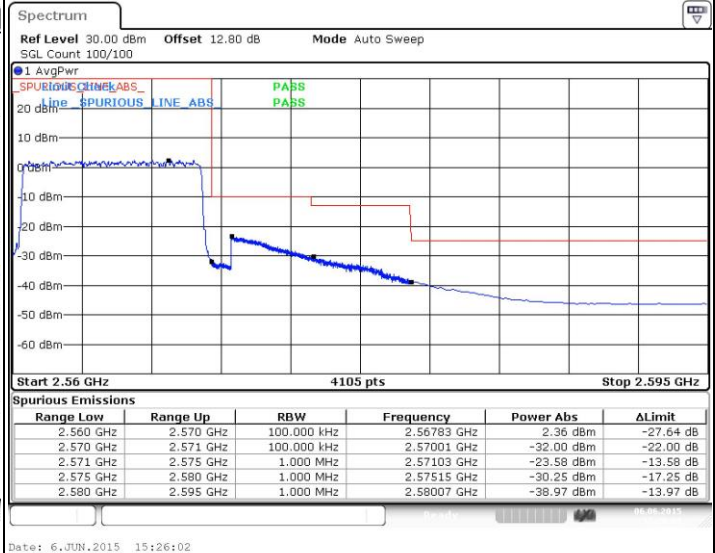
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



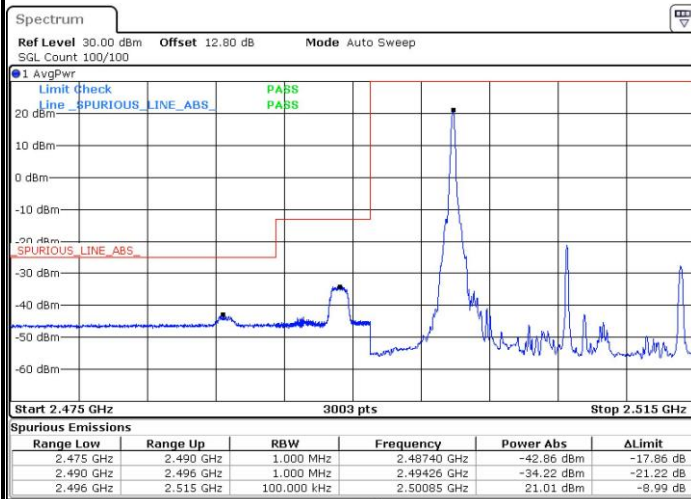
## Highest Band Edge / Full RB



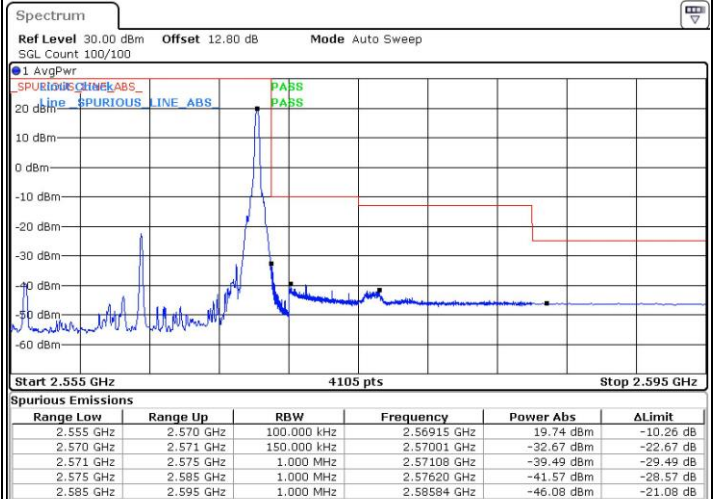


## LTE Band 7 / 15MHz / QPSK

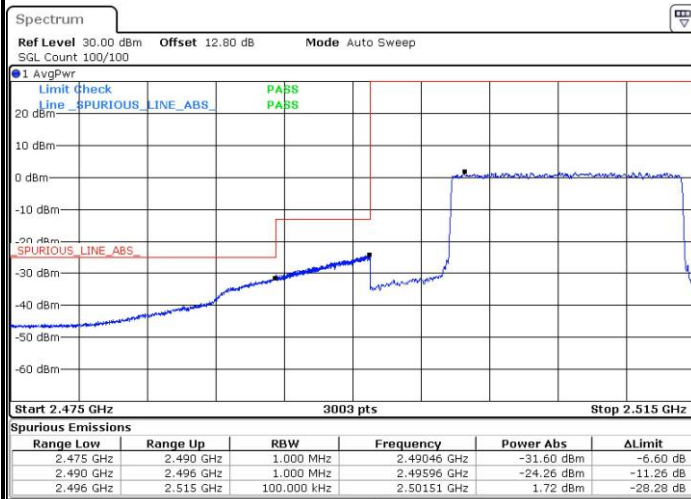
## Lowest Band Edge / 1 RB



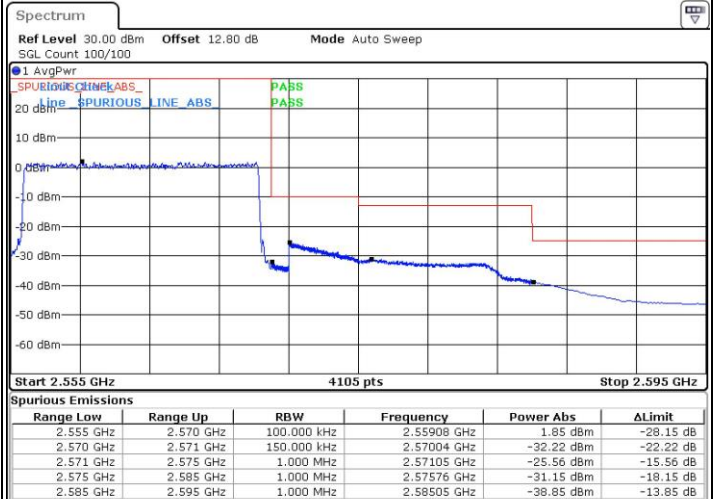
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



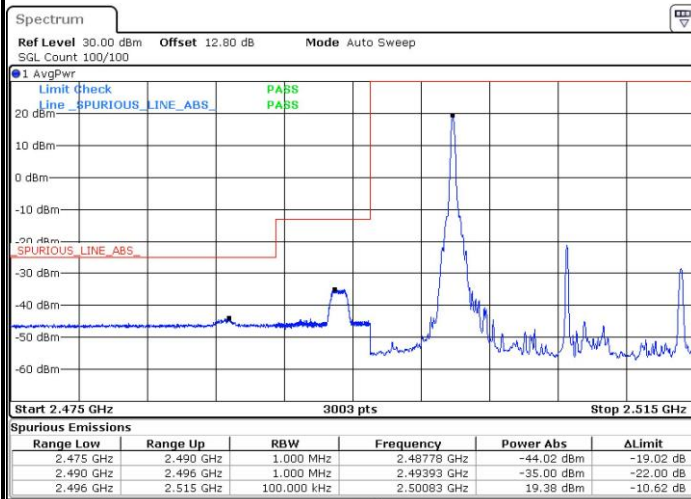
## Highest Band Edge / Full RB



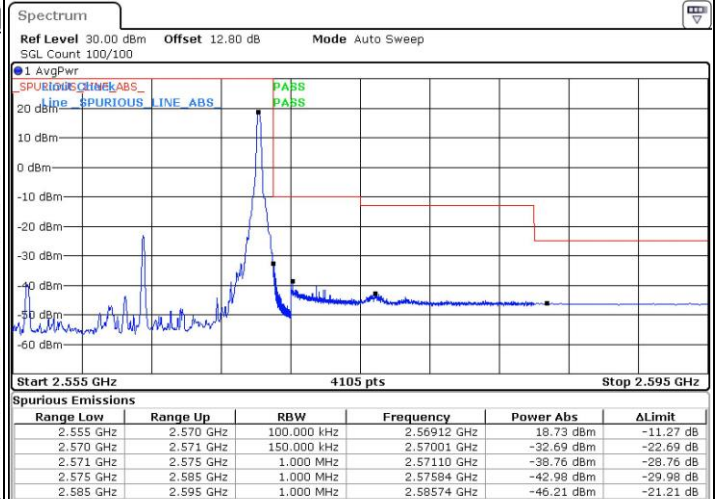


## LTE Band 7 / 15MHz / 16QAM

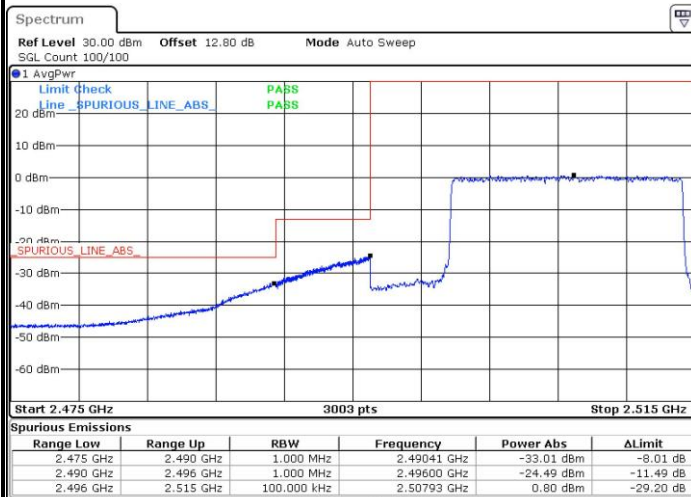
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



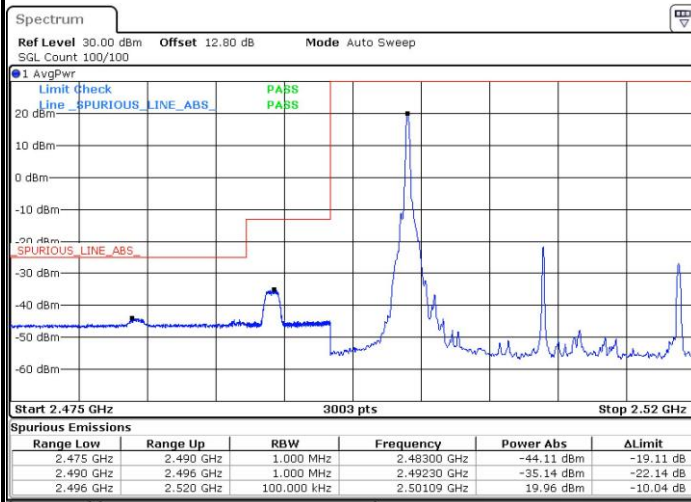
## Highest Band Edge / Full RB



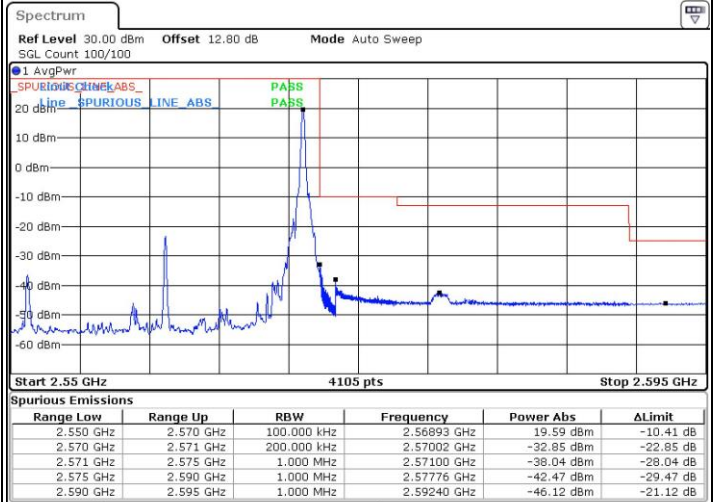


## LTE Band 7 / 20MHz / QPSK

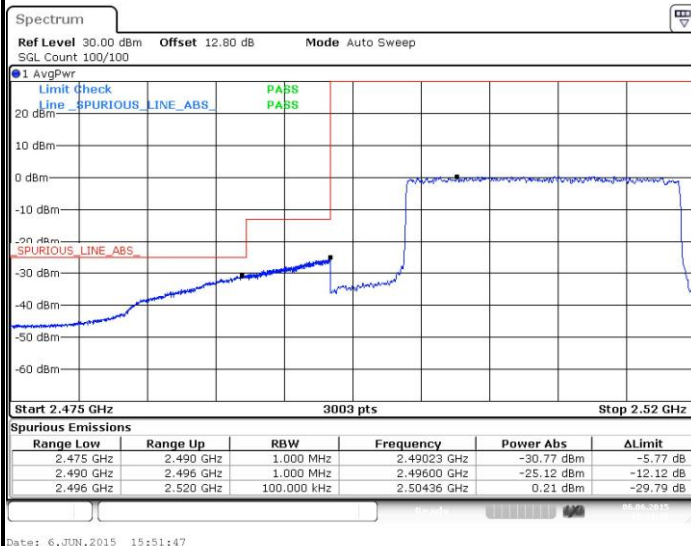
## Lowest Band Edge / 1 RB



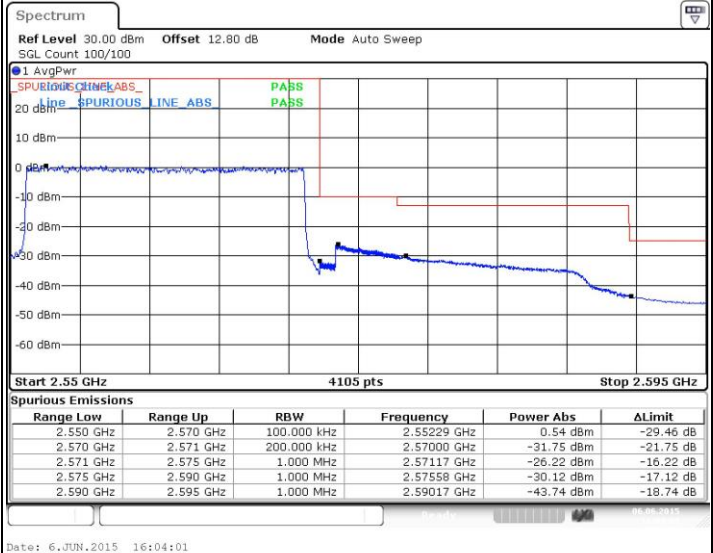
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



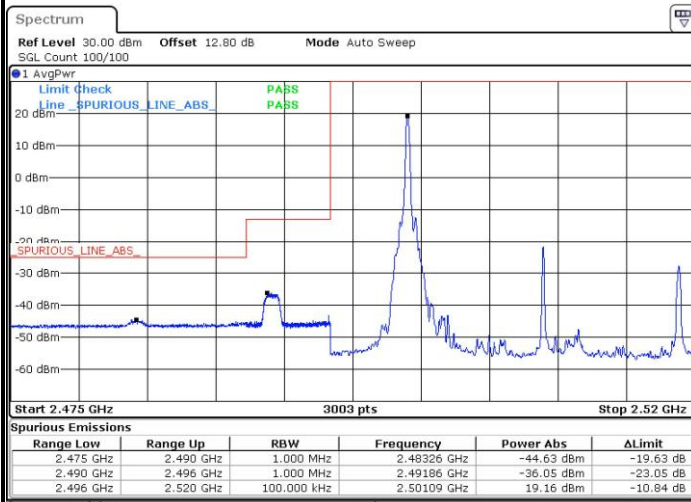
## Highest Band Edge / Full RB



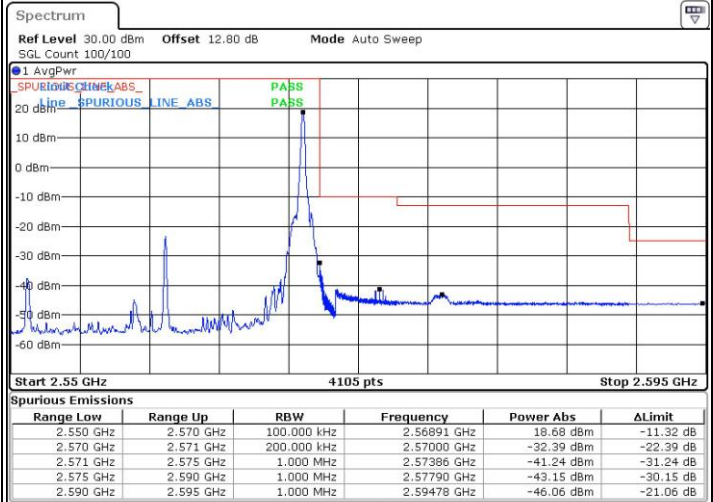


## LTE Band 7 / 20MHz / 16QAM

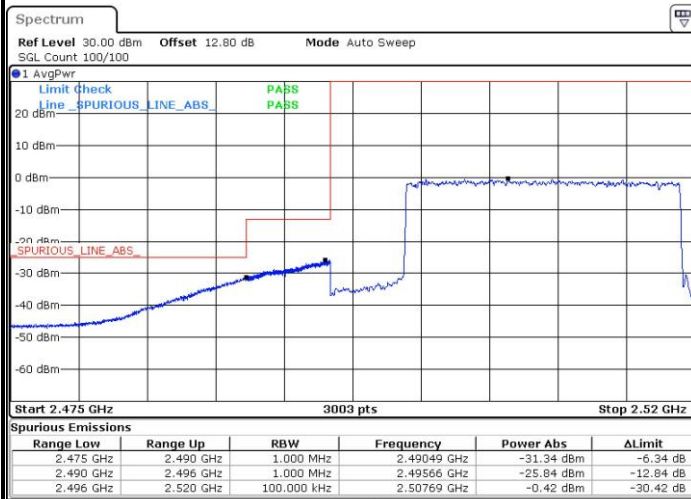
## Lowest Band Edge / 1 RB



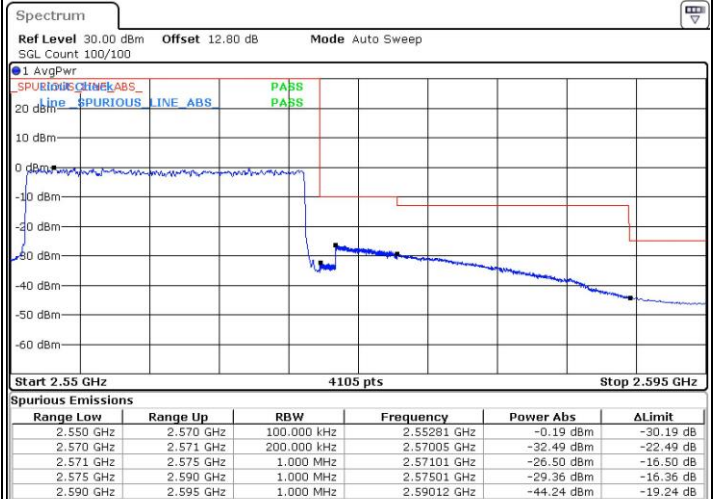
## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

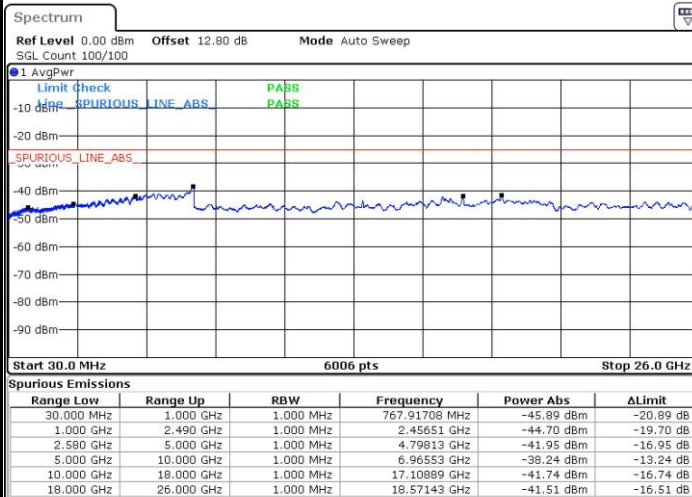




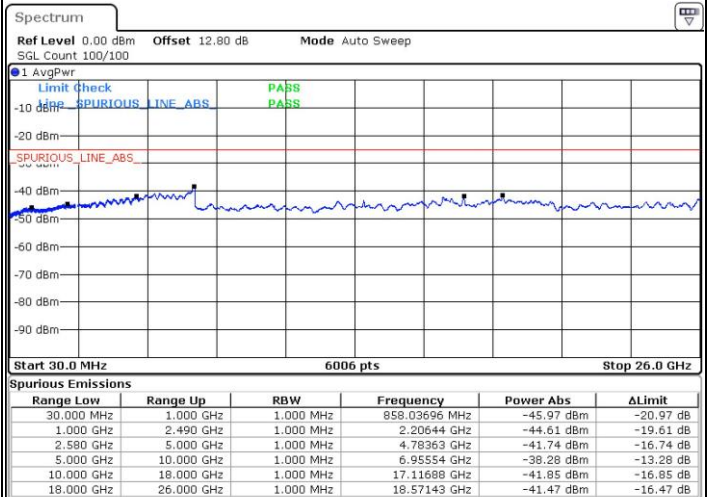
# Conducted Spurious Emission

## LTE Band 7 / 5MHz

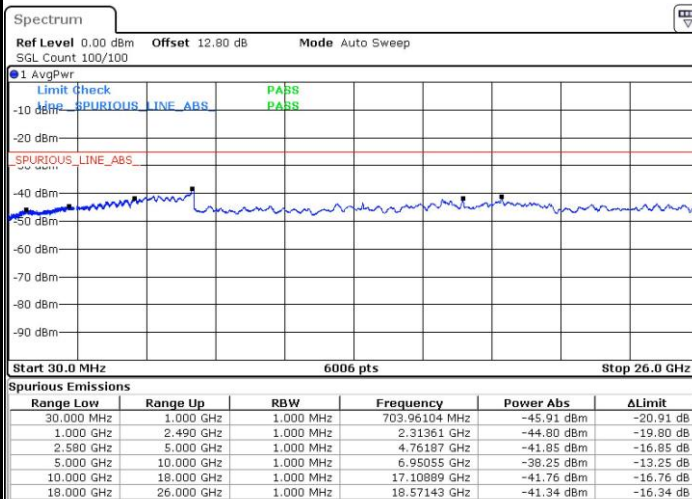
### Lowest Channel / QPSK



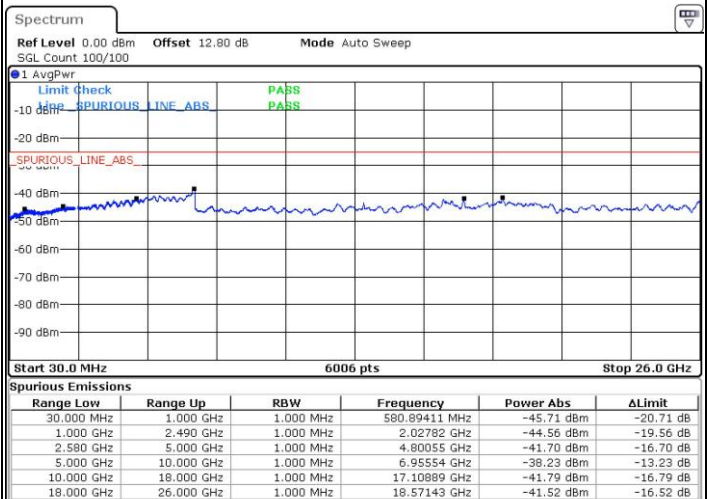
### Lowest Channel / 16QAM



### Middle Channel / QPSK



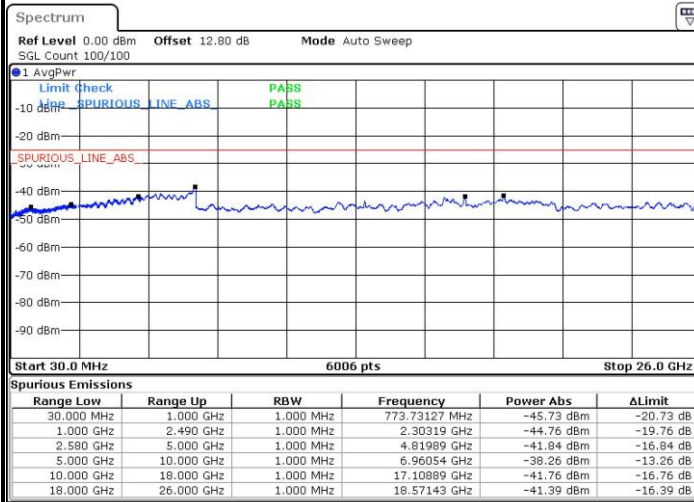
### Middle Channel / 16QAM





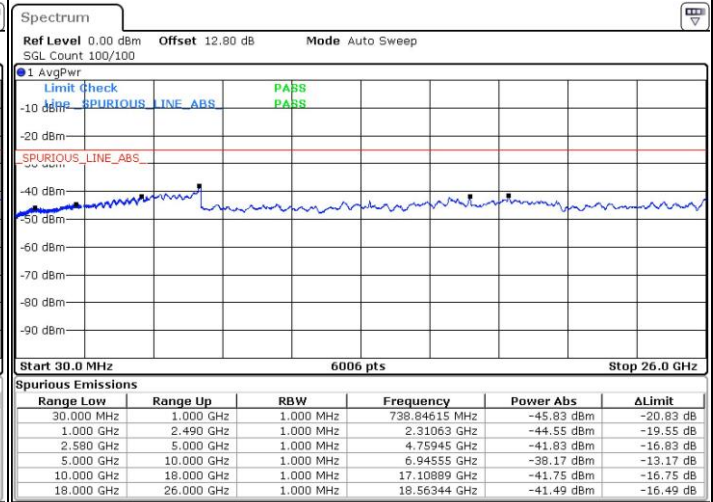
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 6 JUN. 2015 15:08:13

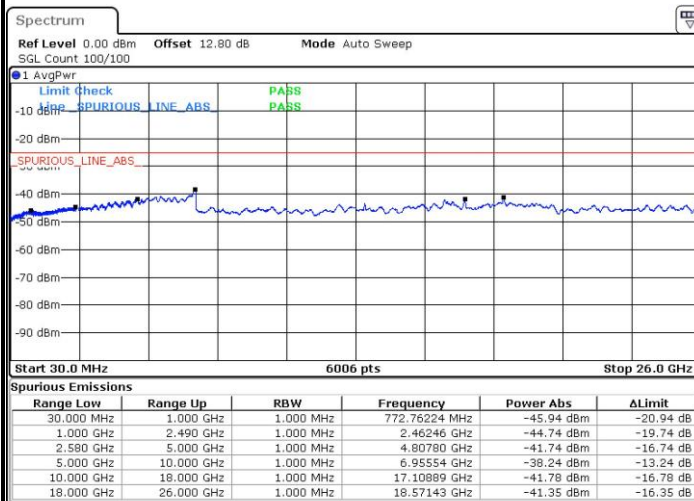
## Highest Channel / 16QAM



Date: 6 JUN. 2015 15:09:24

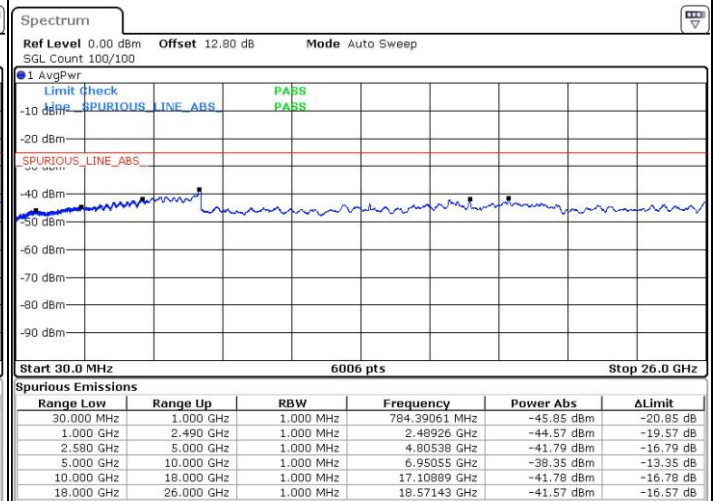
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 6 JUN. 2015 15:16:09

## Lowest Channel / 16QAM

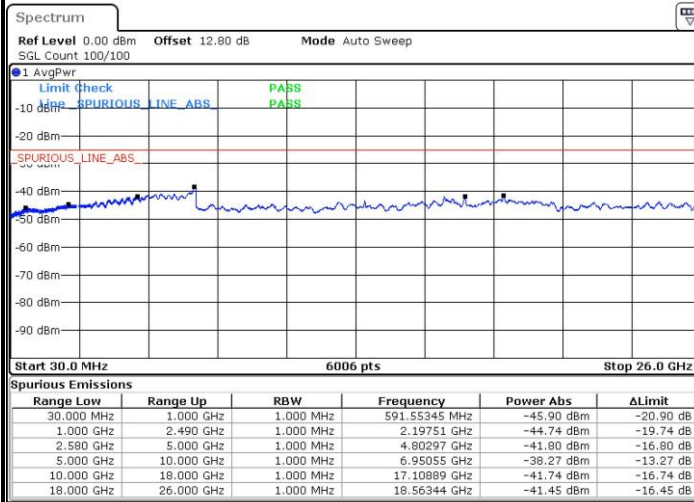


Date: 6 JUN. 2015 15:17:20



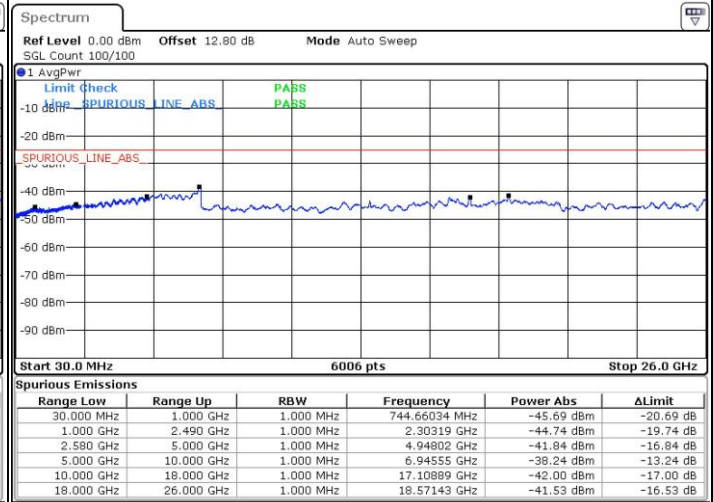
## LTE Band 7 / 10MHz

## Middle Channel / QPSK



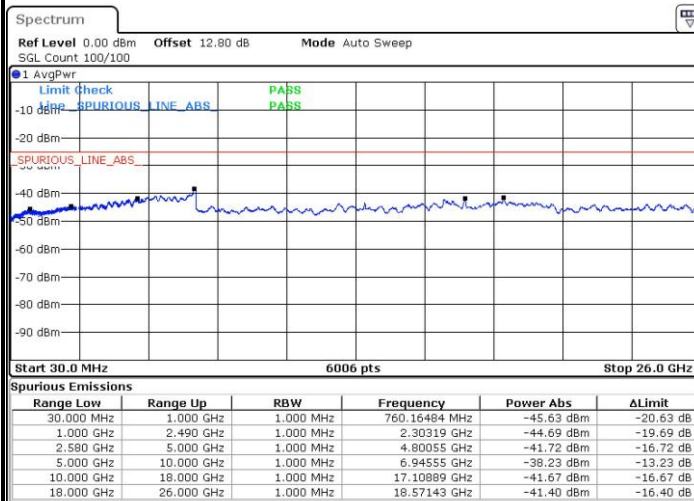
Date: 6 JUN. 2015 15:19:21

## Middle Channel / 16QAM



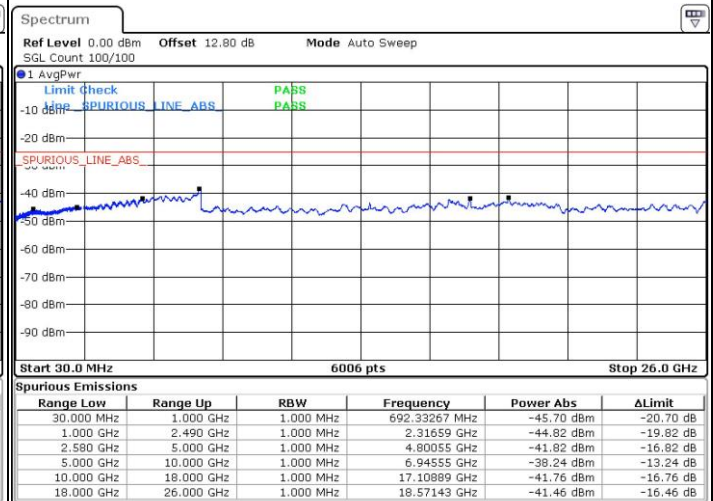
Date: 6 JUN. 2015 15:20:31

## Highest Channel / QPSK



Date: 6 JUN. 2015 15:27:12

## Highest Channel / 16QAM

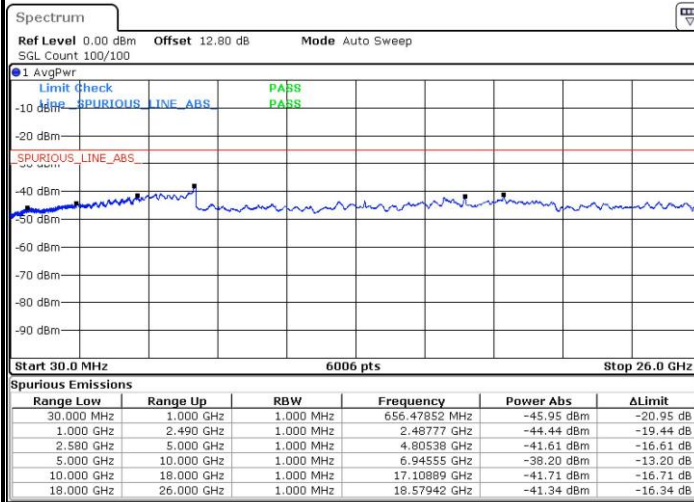


Date: 6 JUN. 2015 15:28:22



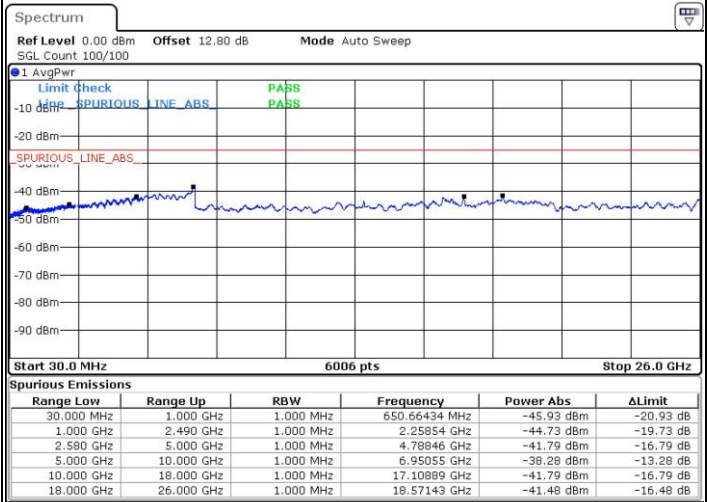
## LTE Band 7 / 15MHz

## Lowest Channel / QPSK



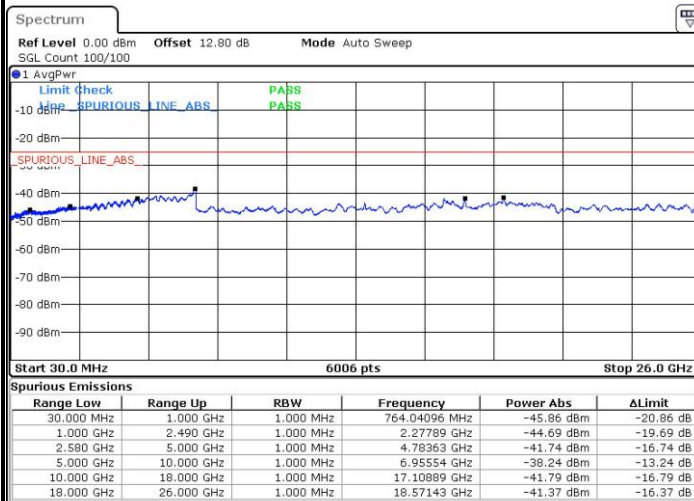
Date: 6 JUN. 2015 15:35:07

## Lowest Channel / 16QAM



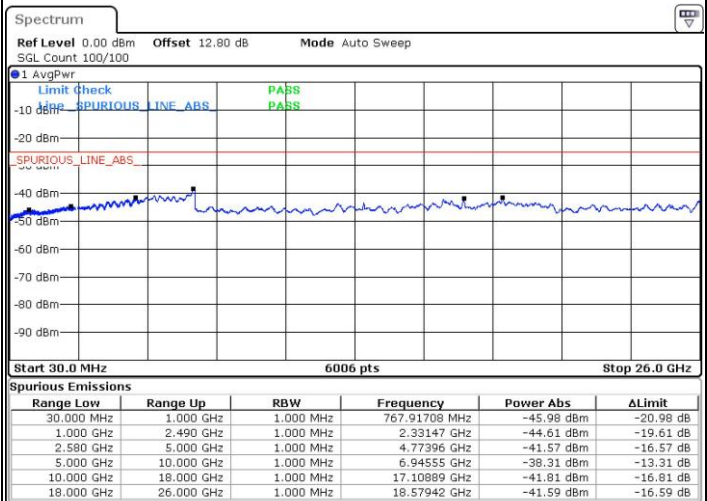
Date: 6 JUN. 2015 15:36:18

## Middle Channel / QPSK



Date: 6 JUN. 2015 15:38:20

## Middle Channel / 16QAM

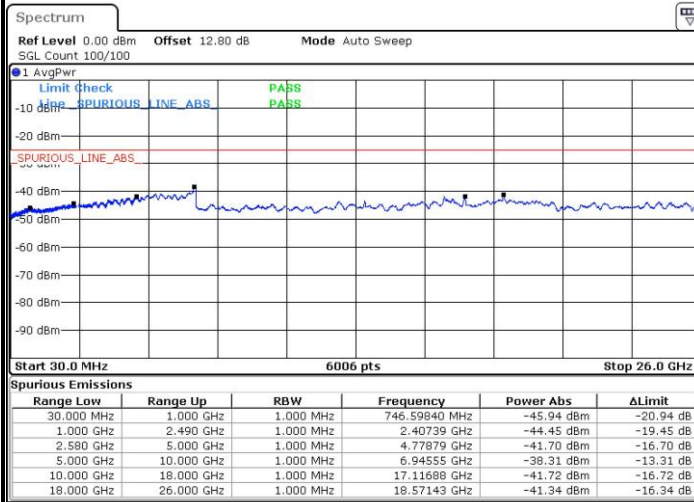


Date: 6 JUN. 2015 15:39:30



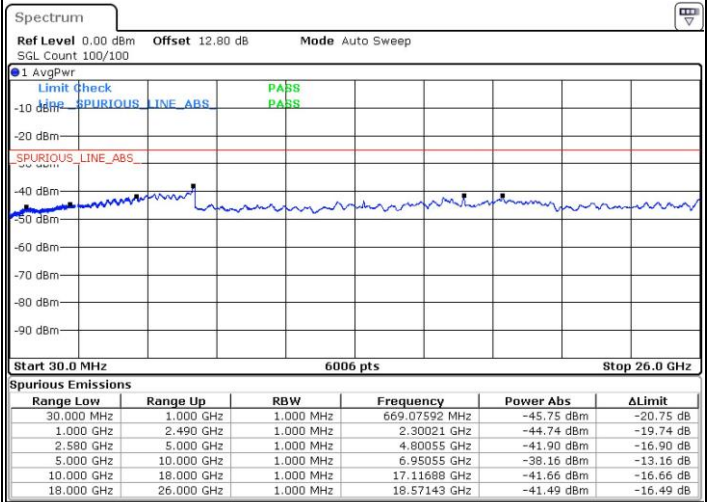
## LTE Band 7 / 15MHz

## Highest Channel / QPSK



Date: 6 JUN. 2015 15:46:11

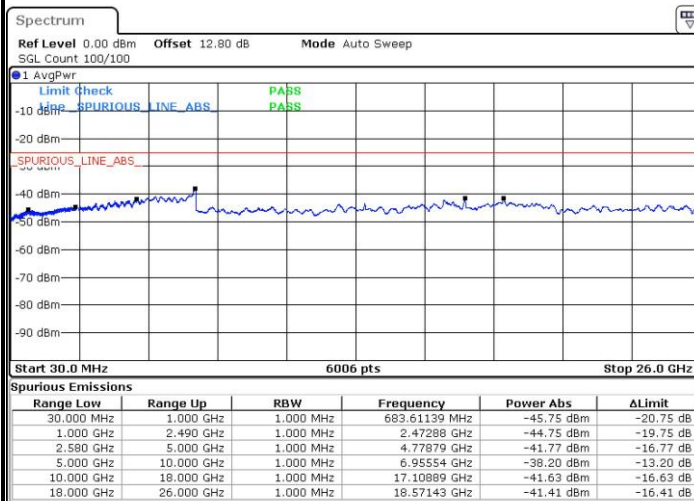
## Highest Channel / 16QAM



Date: 6 JUN. 2015 15:47:22

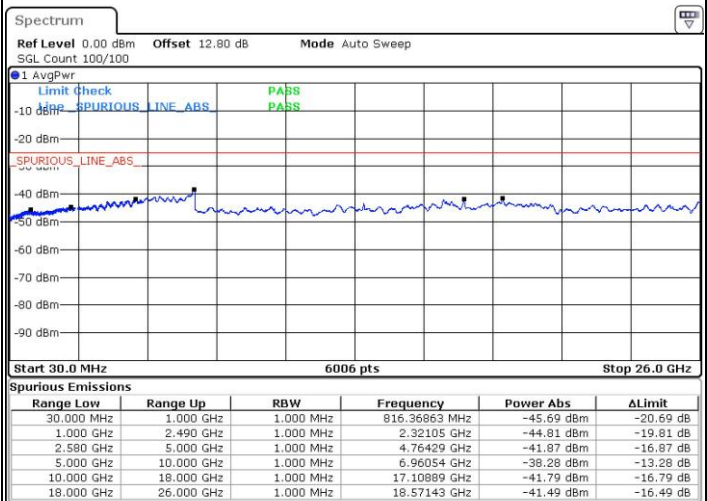
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



Date: 6 JUN. 2015 15:54:08

## Lowest Channel / 16QAM

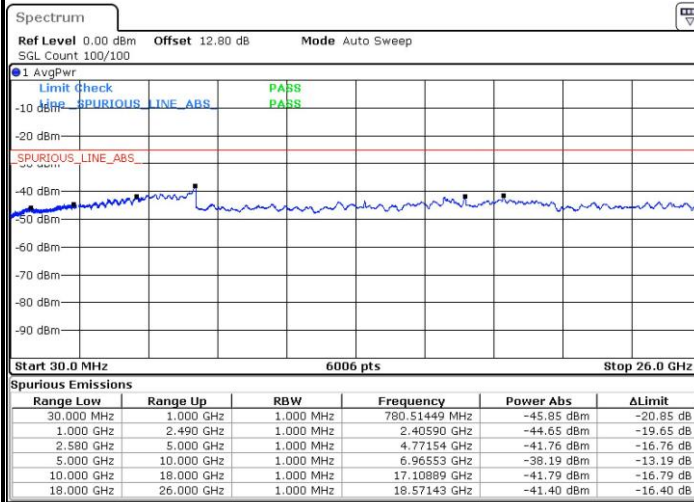


Date: 6 JUN. 2015 15:55:18



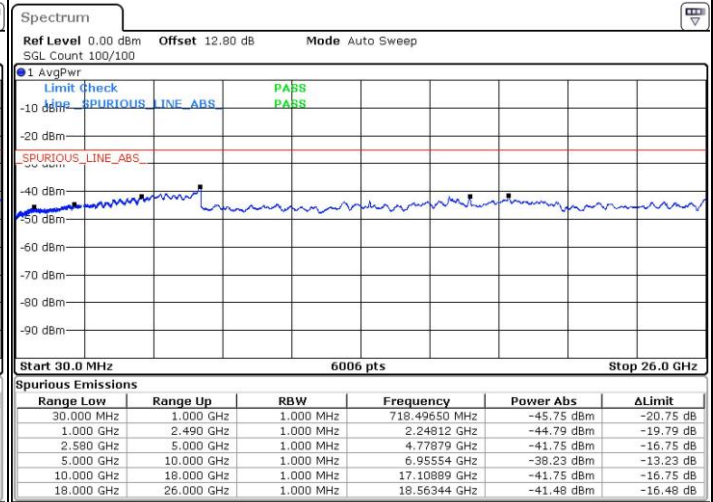
## LTE Band 7 / 20MHz

## Middle Channel / QPSK



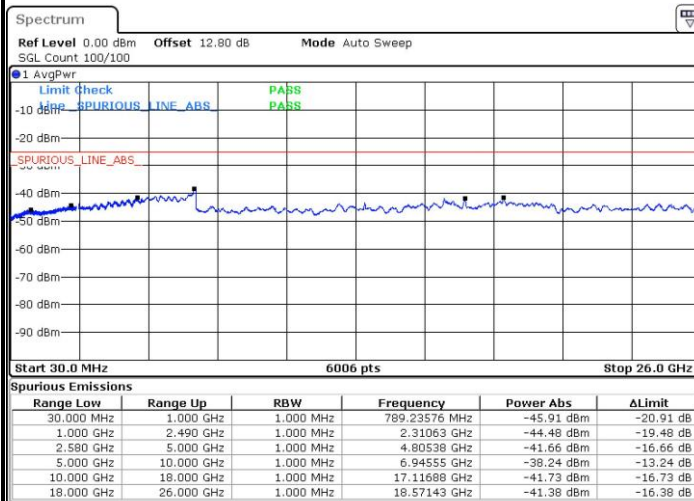
Date: 6 JUN. 2015 15:57:20

## Middle Channel / 16QAM



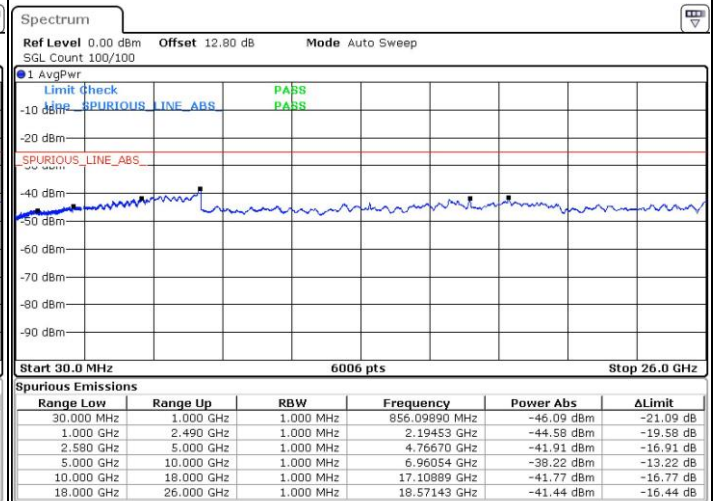
Date: 6 JUN. 2015 15:58:30

## Highest Channel / QPSK



Date: 6 JUN. 2015 16:05:12

## Highest Channel / 16QAM



Date: 6 JUN. 2015 16:16:18

**Frequency Stability**

| Test Conditions     |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation (ppm)                    | Result  |
| 50                  | Normal Voltage    | 0.0080                             | PASS    |
| 40                  | Normal Voltage    | 0.0092                             |         |
| 30                  | Normal Voltage    | 0.0084                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0097                             |         |
| 0                   | Normal Voltage    | 0.0092                             |         |
| -10                 | Normal Voltage    | 0.0088                             |         |
| -20                 | Normal Voltage    | 0.0085                             |         |
| -30                 | Normal Voltage    | 0.0007                             |         |
| 20                  | Maximum Voltage   | 0.0004                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Battery End Point | 0.0002                             |         |

**Note:**

1. Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 13

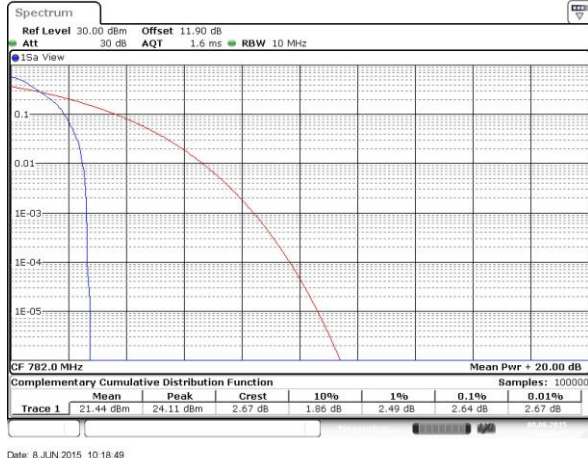
### Peak-to-Average Ratio

| Mode       | LTE Band 13 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | -                   | -       | -     | -       | PASS        |
| Middle CH  | 2.64                | 4.81    | 3.45  | 5.71    |             |
| Highest CH | -                   | -       | -     | -       |             |

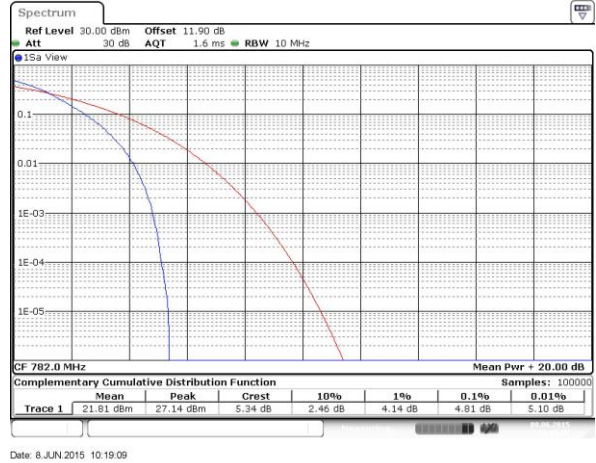


## LTE Band 13 / 10MHz / QPSK

## Middle Channel/ 1RB

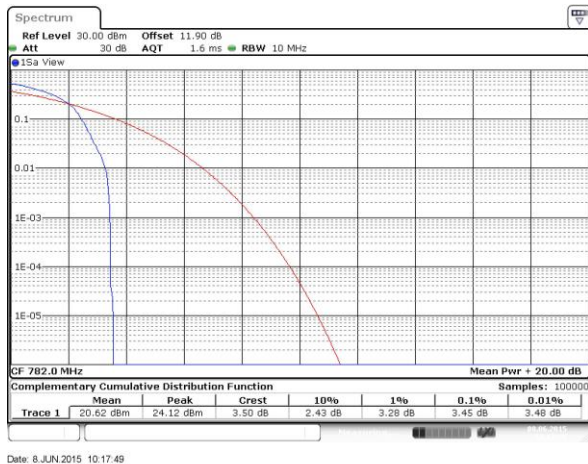


## Middle Channel / Full RB

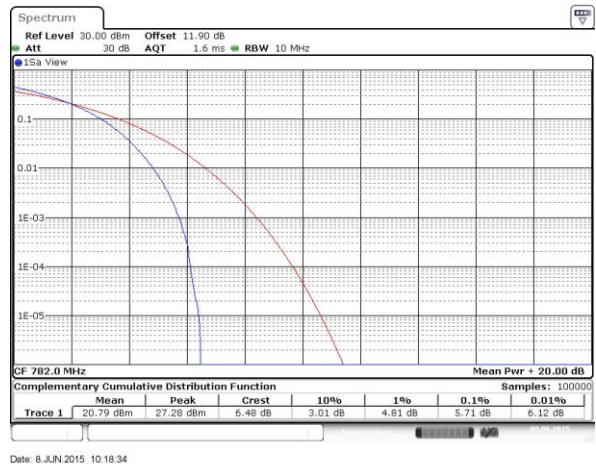


## LTE Band 13 / 10MHz / 16QAM

## Middle Channel/ 1RB



## Middle Channel / Full RB





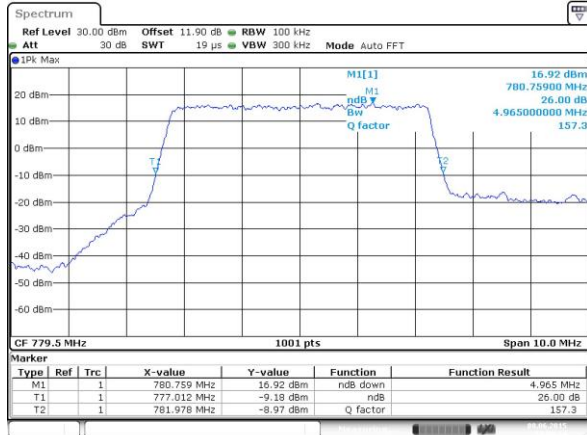
## 26dB Bandwidth

| Mode       | LTE Band 13 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                     |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                       | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                          | -     | -    | -     | 4.97 | 5.00  | -     | -     | -     | -     | -     | -     |
| Middle CH  | -                          | -     | -    | -     | 5.00 | 4.99  | 9.97  | 9.91  | -     | -     | -     | -     |
| Highest CH | -                          | -     | -    | -     | 5.00 | 5.00  | -     | -     | -     | -     | -     | -     |

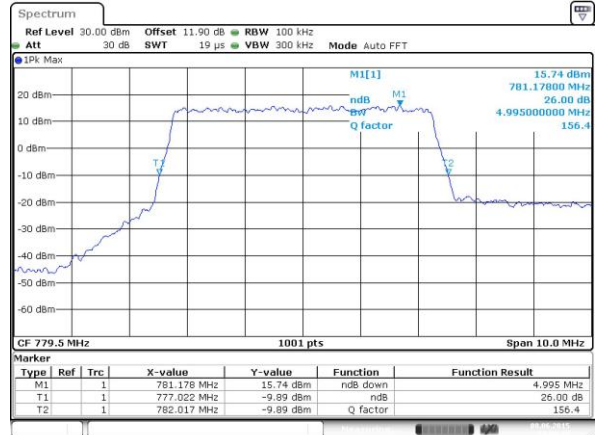


## LTE Band 13

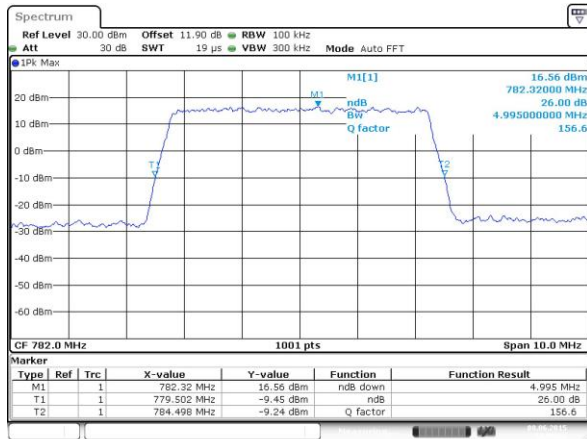
## Lowest Channel / 5MHz / QPSK



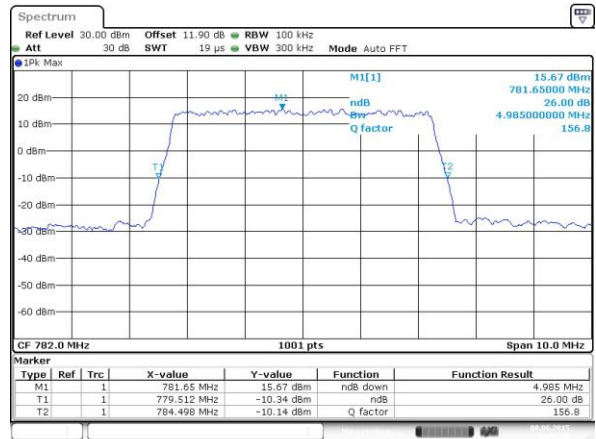
## Lowest Channel / 5MHz / 16QAM



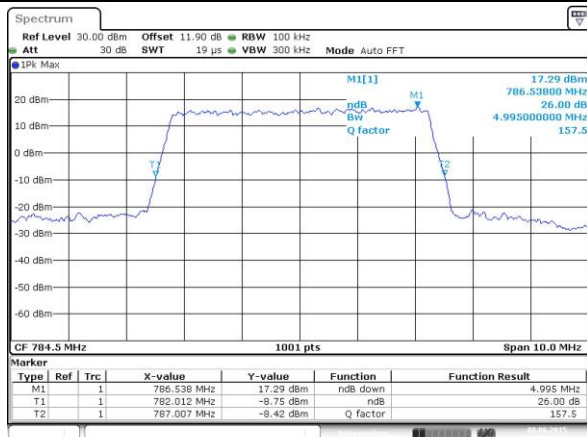
## Middle Channel / 5MHz / QPSK



## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



## Highest Channel / 5MHz / 16QAM

