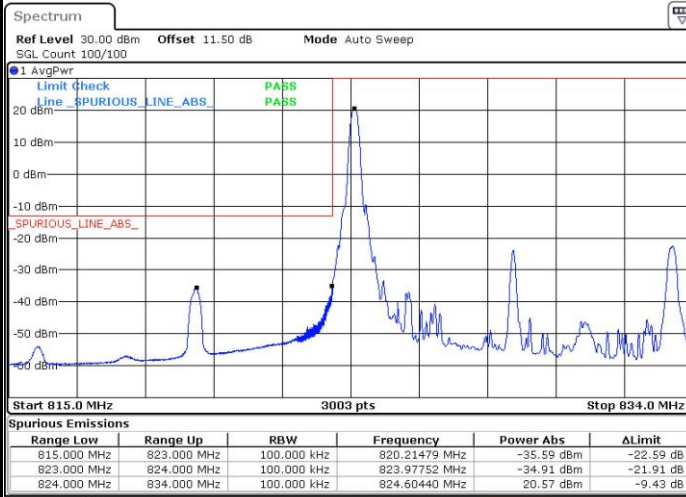


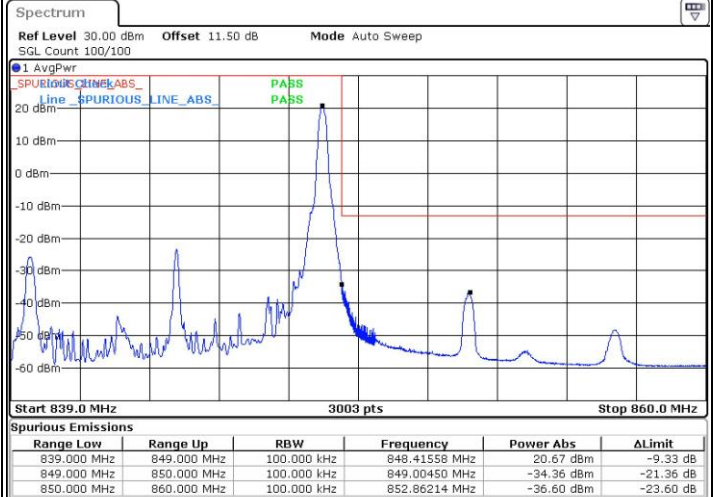


## LTE Band 5 / 10MHz / QPSK

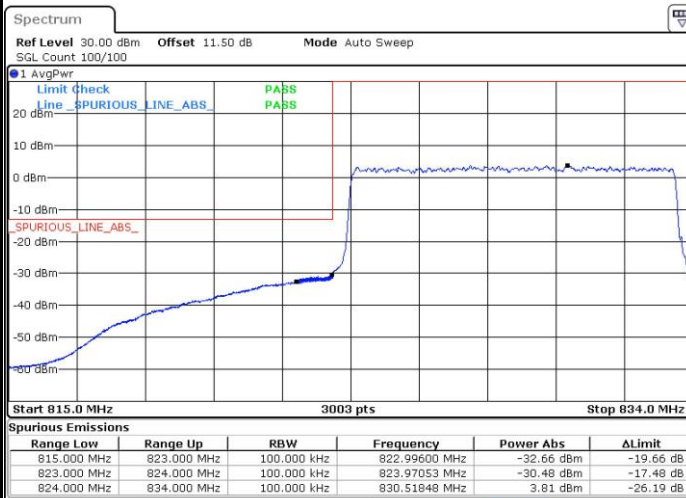
## Lowest Band Edge / 1RB



## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



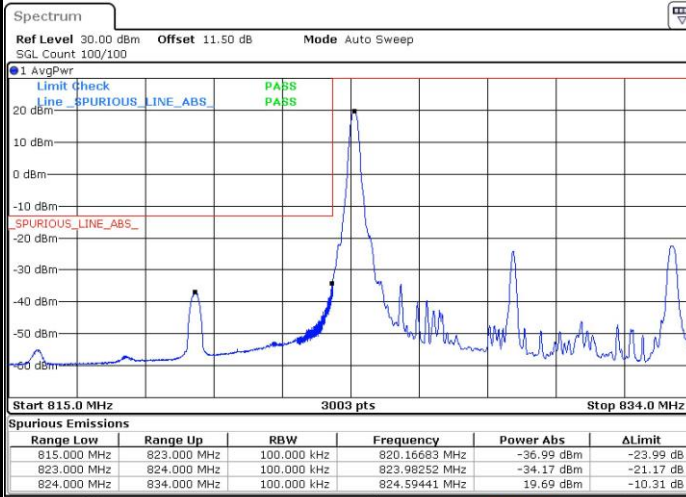
## Highest Band Edge / Full RB



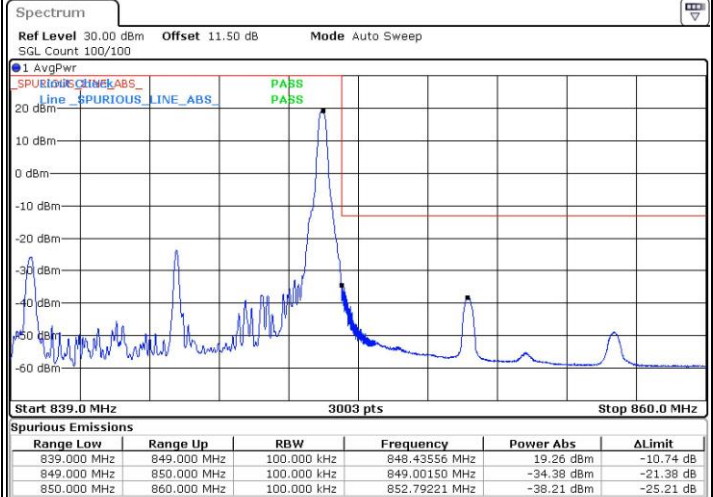


## LTE Band 5 / 10MHz / 16QAM

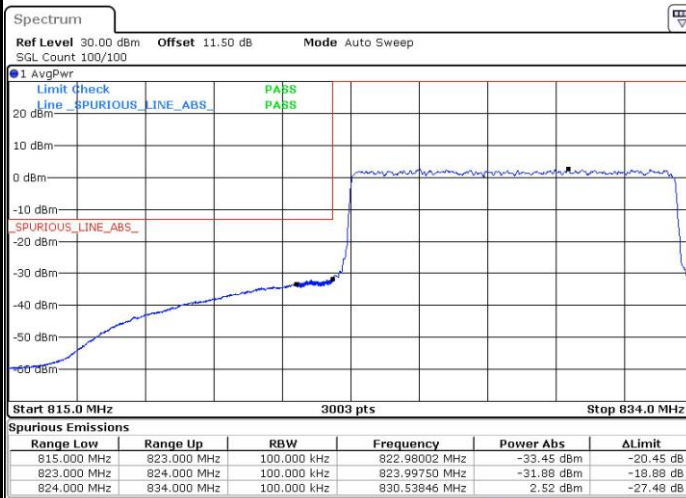
## Lowest Band Edge / 1RB



## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

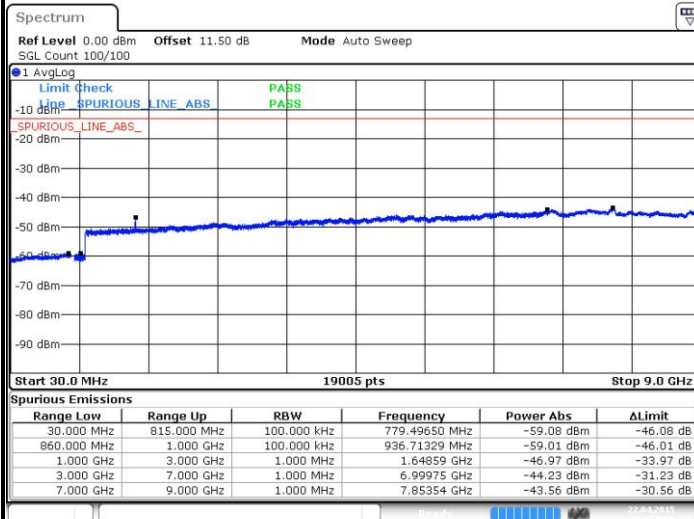




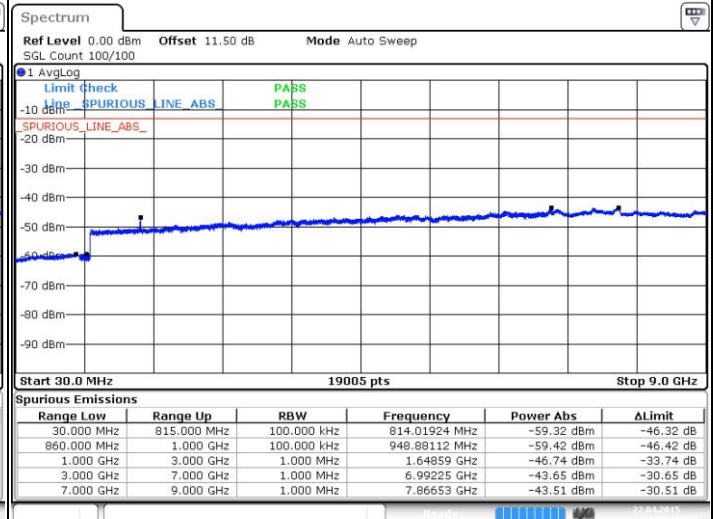
# Conducted Spurious Emission

## LTE Band 5 / 1.4MHz

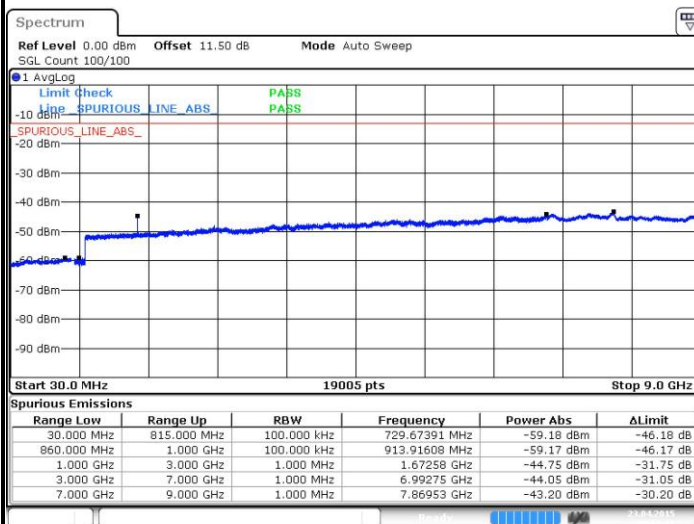
### Lowest Channel / QPSK



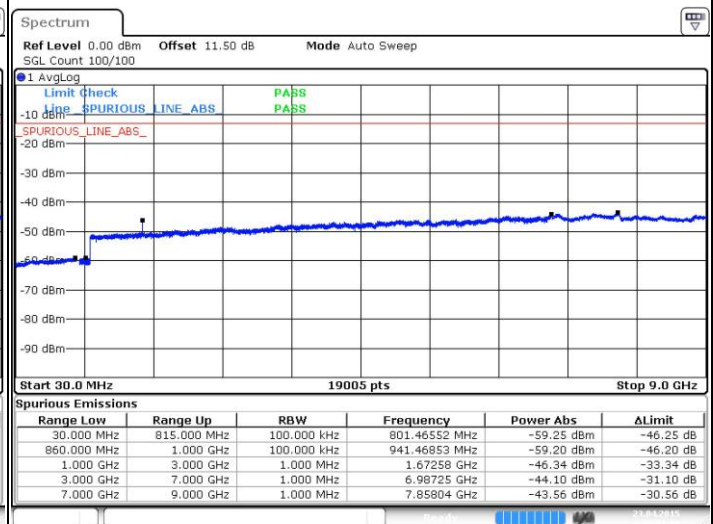
### Lowest Channel / 16QAM



### Middle Channel / QPSK



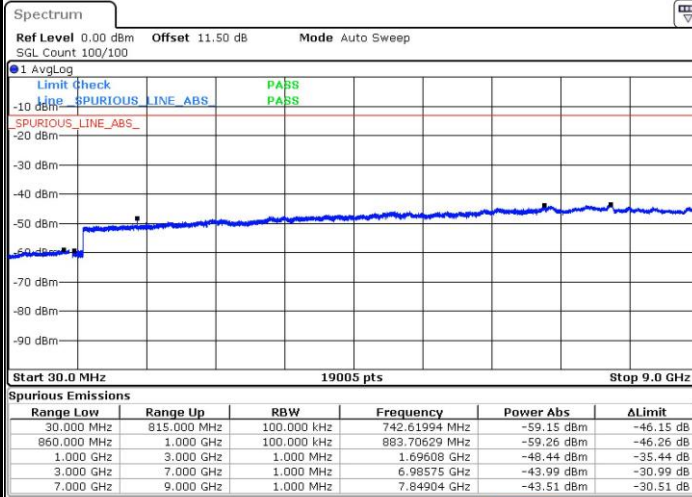
### Middle Channel / 16QAM





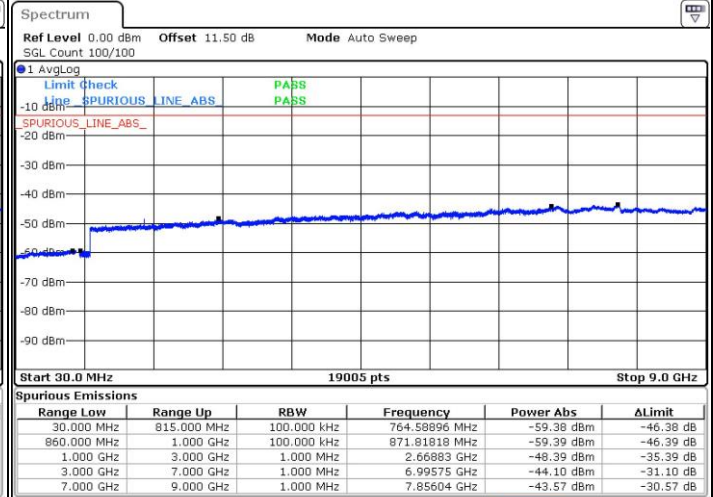
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 23 APR 2015 00:20:59

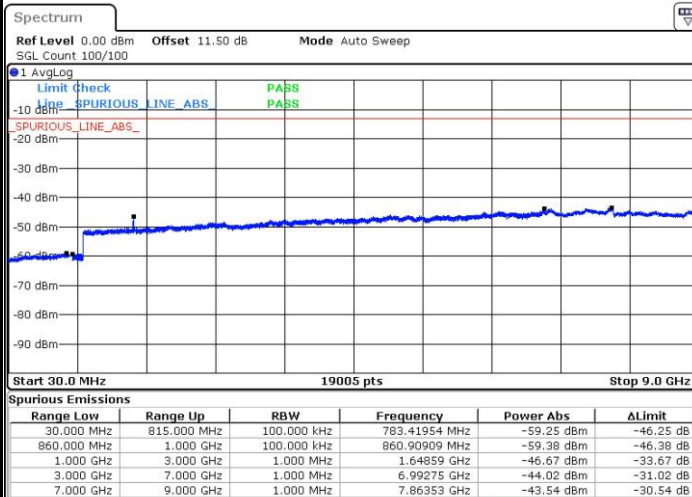
## Highest Channel / 16QAM



Date: 23 APR 2015 00:04:47

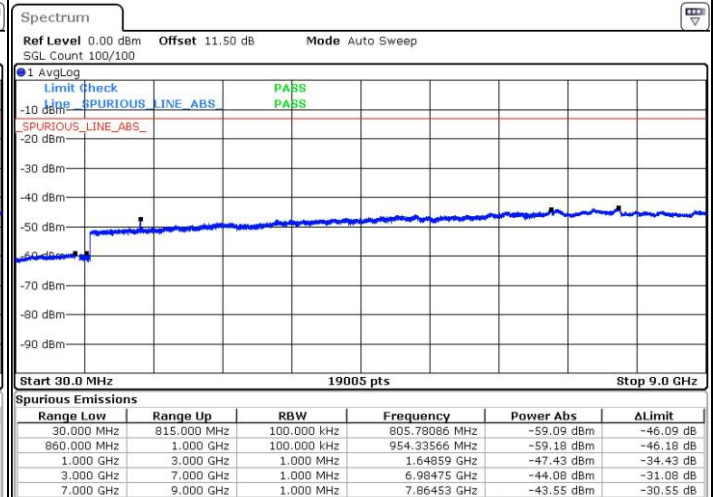
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 22 APR 2015 21:55:40

## Lowest Channel / 16QAM

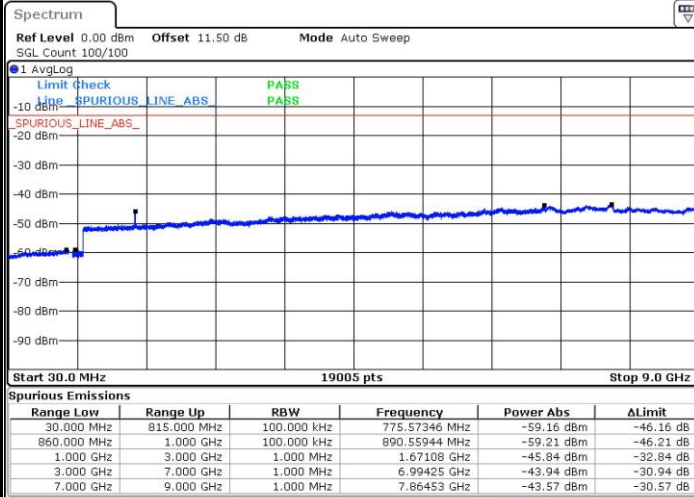


Date: 22 APR 2015 21:57:06



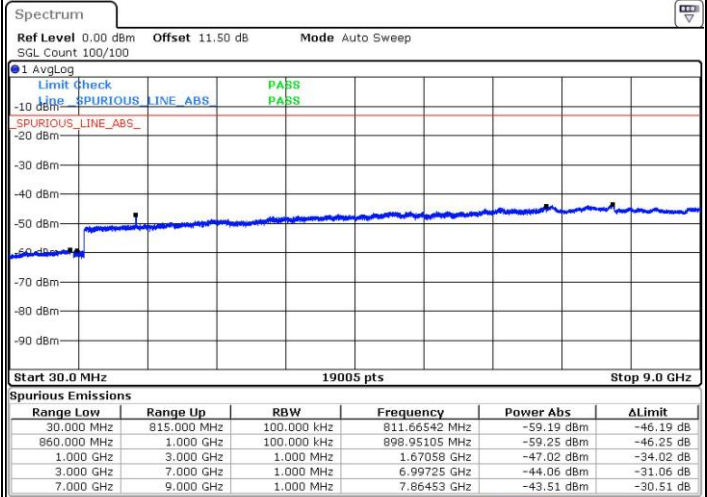
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



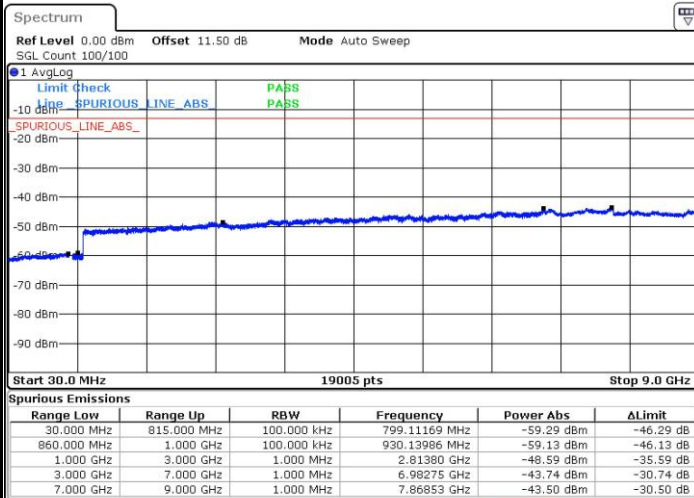
Date: 22 APR 2015 23:54:49

## Middle Channel / 16QAM



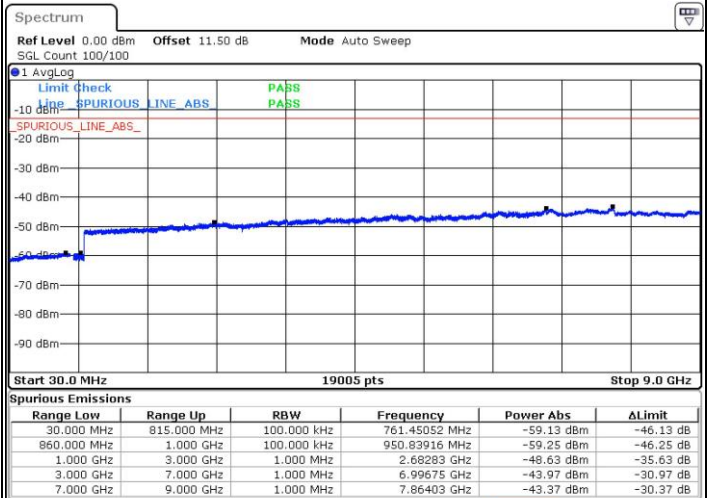
Date: 22 APR 2015 22:03:33

## Highest Channel / QPSK



Date: 22 APR 2015 22:11:01

## Highest Channel / 16QAM

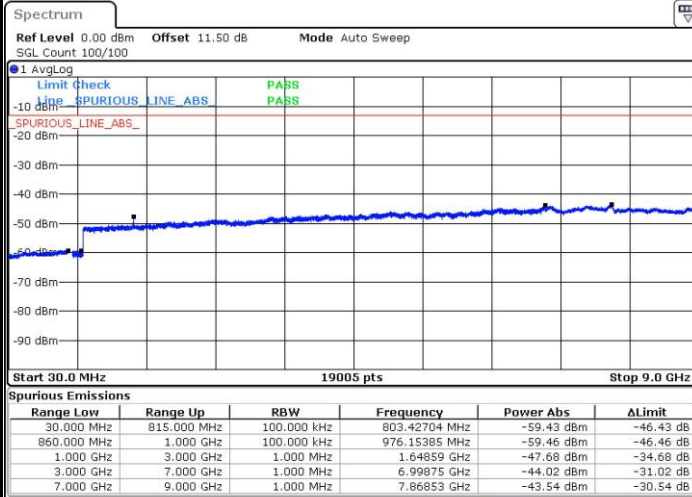


Date: 22 APR 2015 22:12:27



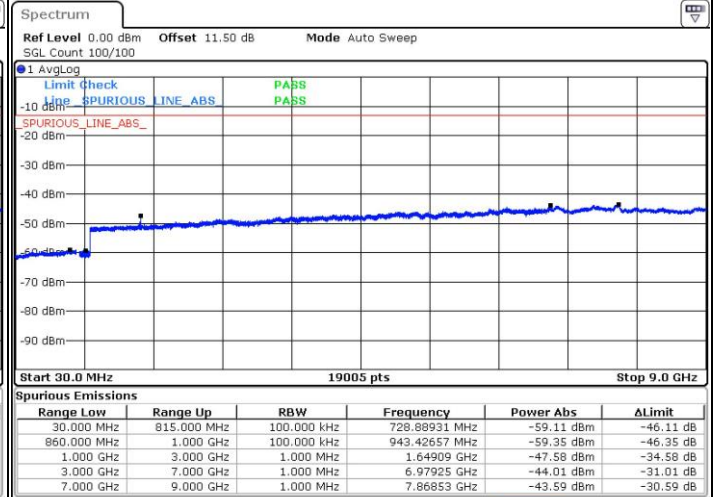
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



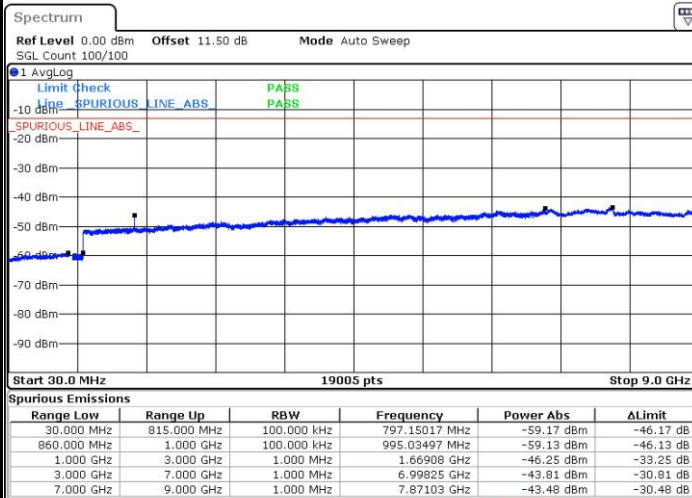
Date: 22 APR 2015 22:23:35

## Lowest Channel / 16QAM



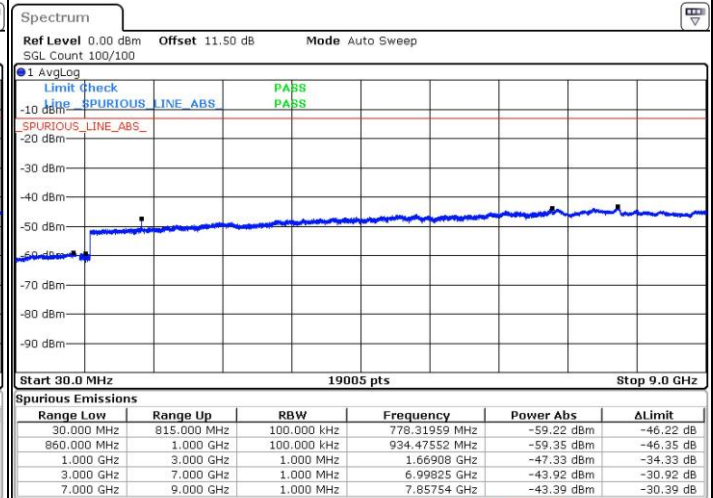
Date: 22 APR 2015 22:24:59

## Middle Channel / QPSK



Date: 22 APR 2015 22:27:21

## Middle Channel / 16QAM

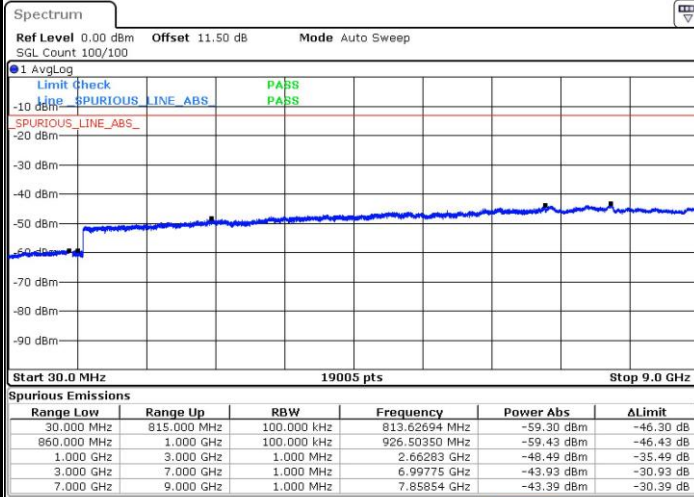


Date: 22 APR 2015 23:52:59



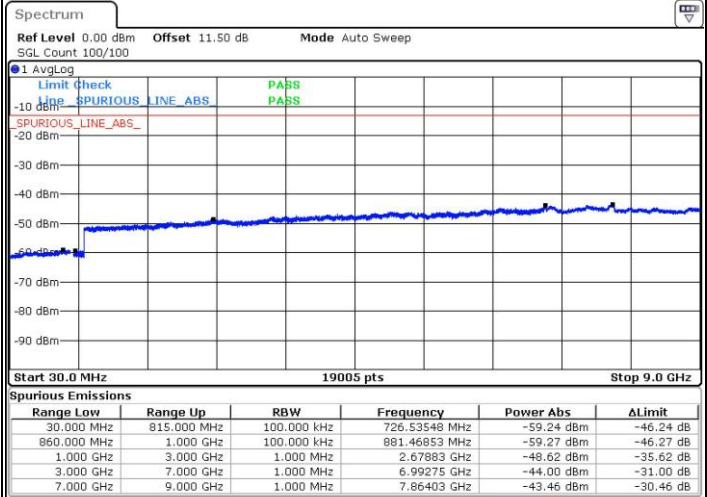
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 22 APR 2015 22:43:18

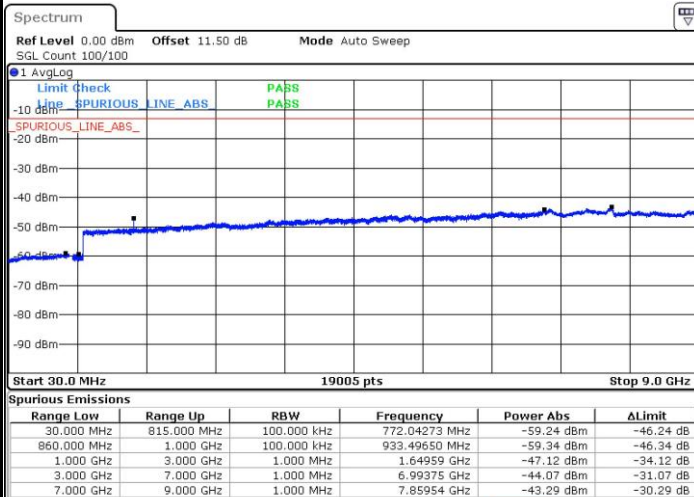
## Highest Channel / 16QAM



Date: 22 APR 2015 22:44:43

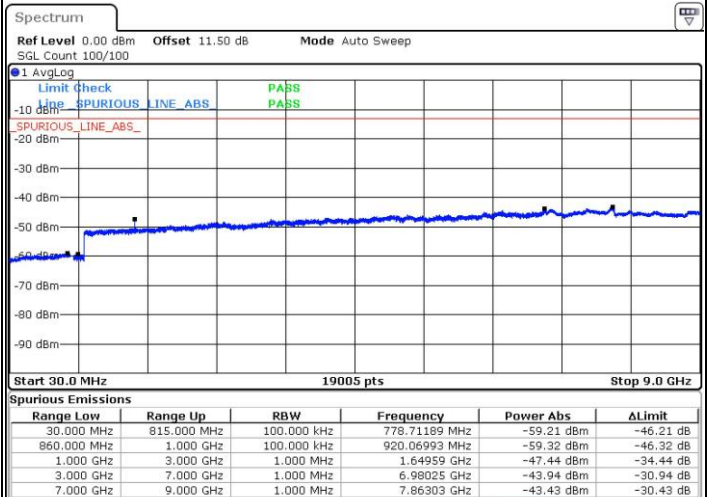
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 22 APR 2015 22:52:15

## Lowest Channel / 16QAM

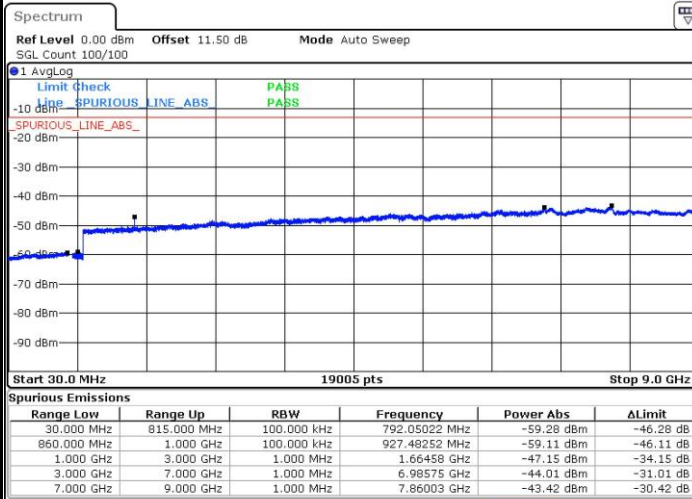


Date: 22 APR 2015 22:53:41



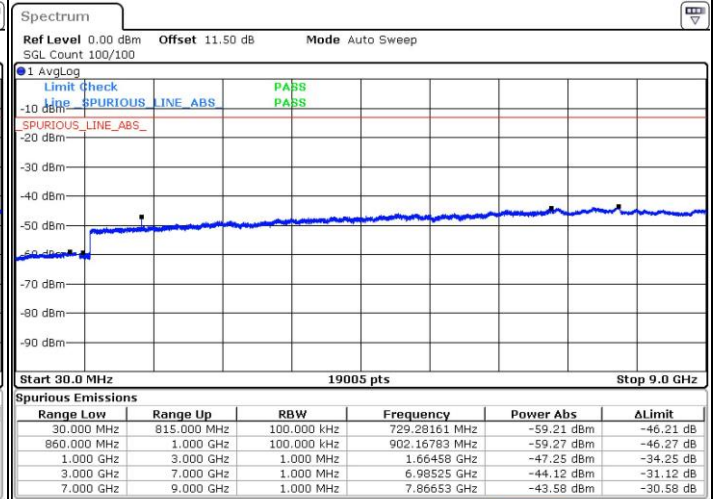
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



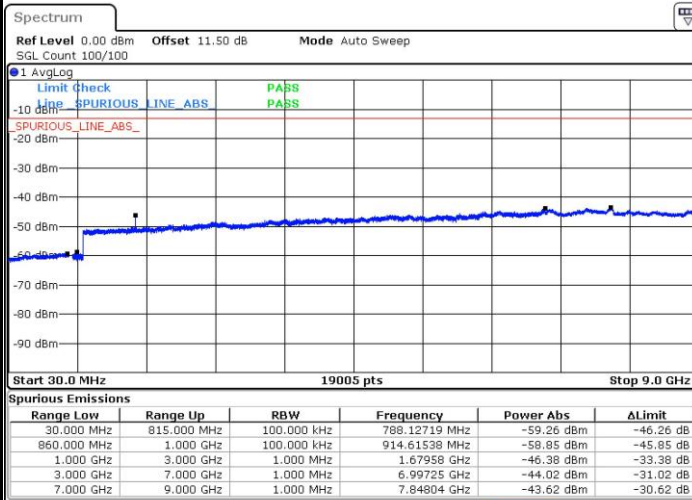
Date: 22 APR 2015 22:56:03

## Middle Channel / 16QAM



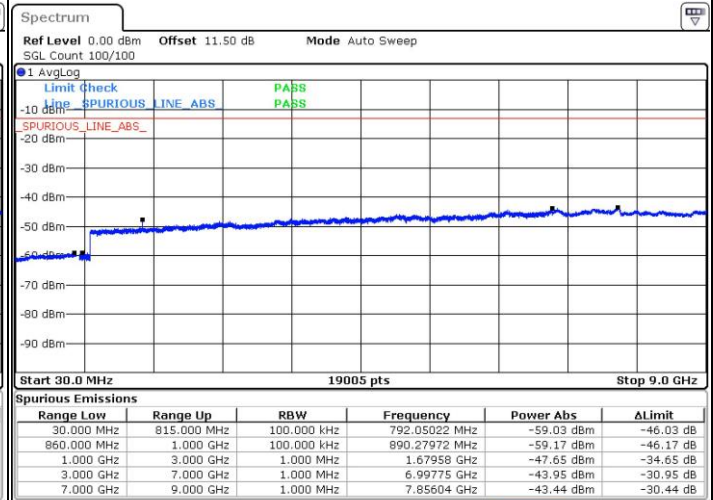
Date: 22 APR 2015 22:57:28

## Highest Channel / QPSK



Date: 22 APR 2015 23:05:00

## Highest Channel / 16QAM



Date: 22 APR 2015 23:06:26

**Frequency Stability**

| Test Conditions     |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|---------------------|-------------------|------------------------------------|--------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | 2.5ppm |
|                     |                   | Deviation (ppm)                    | Result |
| 50                  | Normal Voltage    | 0.0024                             | PASS   |
| 40                  | Normal Voltage    | 0.0120                             |        |
| 30                  | Normal Voltage    | 0.0031                             |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |        |
| 10                  | Normal Voltage    | 0.0026                             |        |
| 0                   | Normal Voltage    | 0.0130                             |        |
| -10                 | Normal Voltage    | 0.0006                             |        |
| -20                 | Normal Voltage    | 0.0019                             |        |
| -30                 | Normal Voltage    | 0.0158                             |        |
| 20                  | Maximum Voltage   | 0.0030                             |        |
| 20                  | Normal Voltage    | 0.0000                             |        |
| 20                  | Battery End Point | 0.0024                             |        |

**Note:**

1. Normal Voltage = 3.87 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 7

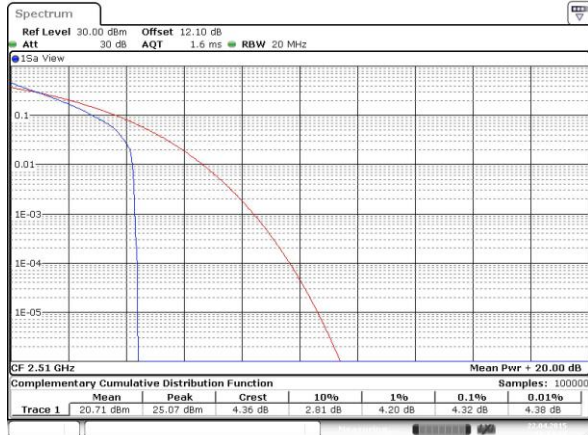
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.32               | 5.13    | 5.07  | 5.88    | PASS        |
| Middle CH  | 3.74               | 4.81    | 4.64  | 5.86    |             |
| Highest CH | 4.17               | 4.61    | 5.07  | 5.62    |             |

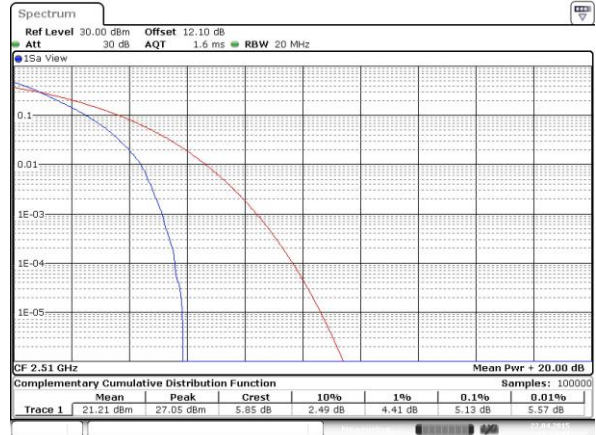


## LTE Band 7 / 20MHz / QPSK

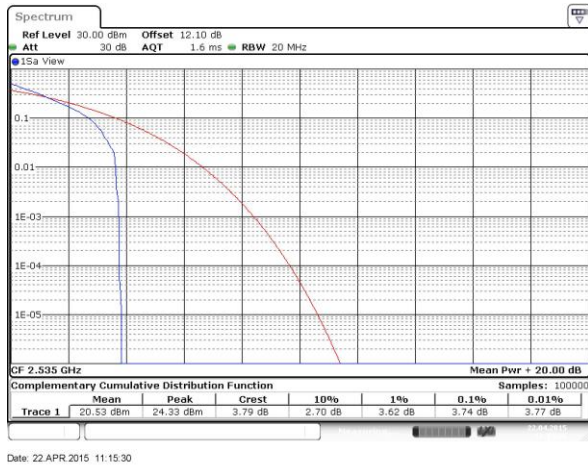
## Lowest Channel / 1RB



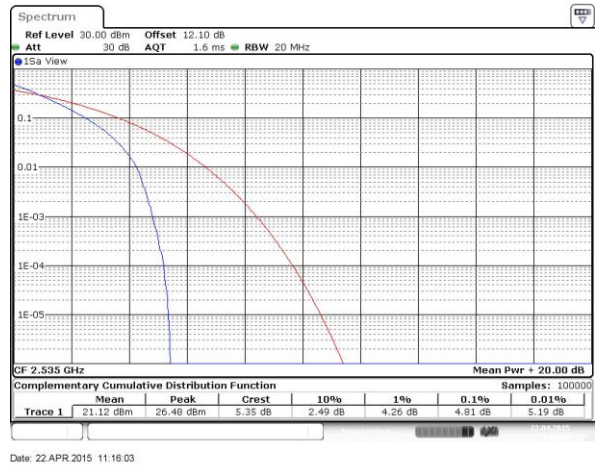
## Lowest Channel / Full RB



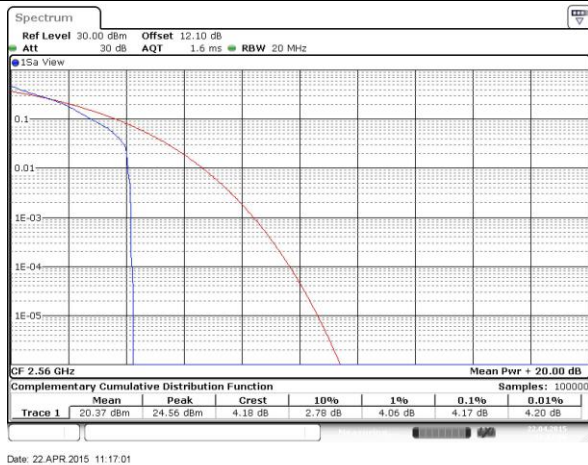
## Middle Channel / 1RB



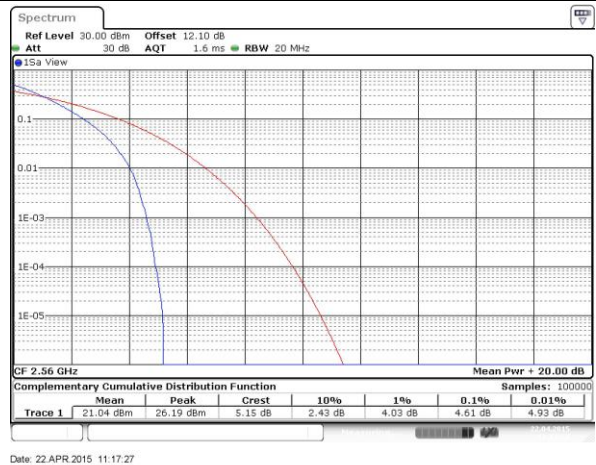
## Middle Channel / Full RB



## Highest Channel / 1RB



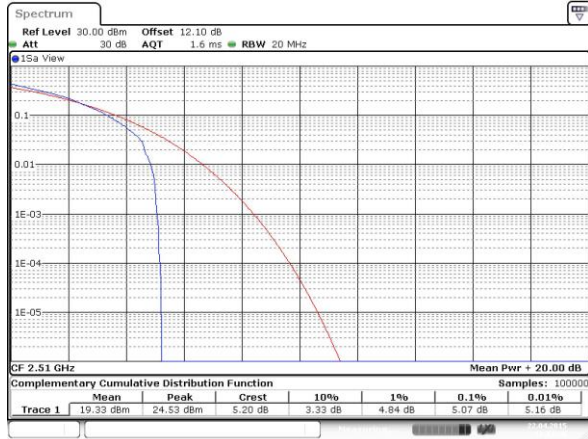
## Highest Channel / Full RB



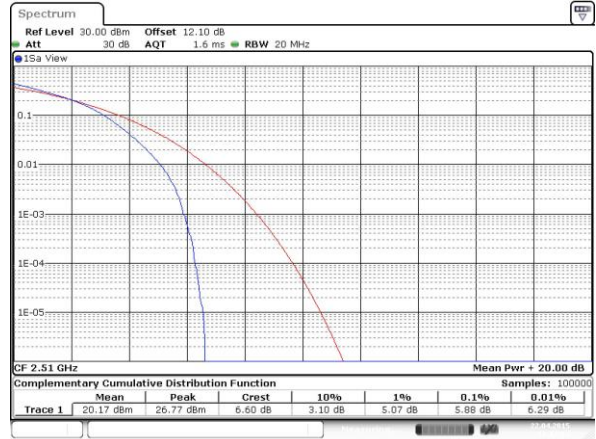


## LTE Band 7 / 20MHz / 16QAM

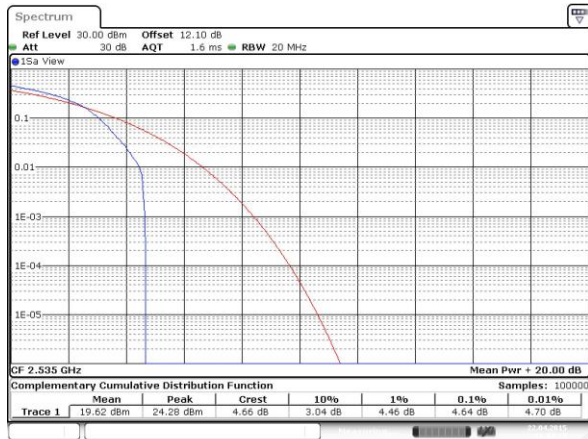
## Lowest Channel / 1RB



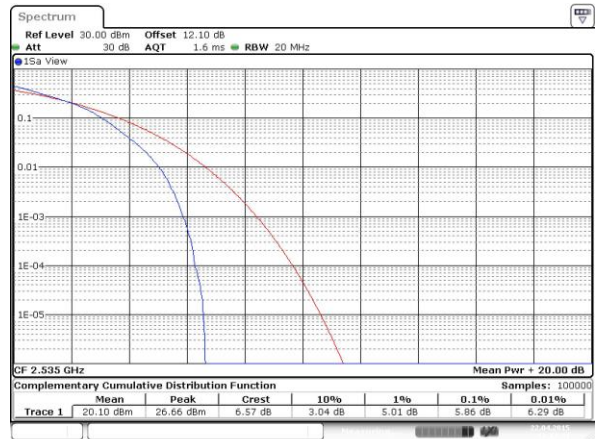
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





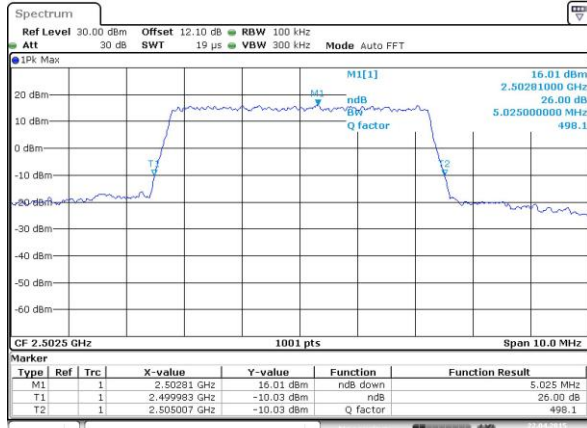
## 26dB Bandwidth

| Mode       | LTE Band 7 : 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  | -                         | -     | -    | -     | 5.03 | 4.99  | 9.91  | 9.93  | 14.66 | 14.72 | 20.22 | 20.42 |
| Middle CH  | -                         | -     | -    | -     | 5.02 | 4.99  | 9.89  | 9.89  | 14.54 | 14.66 | 20.38 | 20.38 |
| Highest CH | -                         | -     | -    | -     | 5.01 | 5.00  | 9.93  | 9.95  | 14.63 | 14.57 | 20.38 | 20.22 |



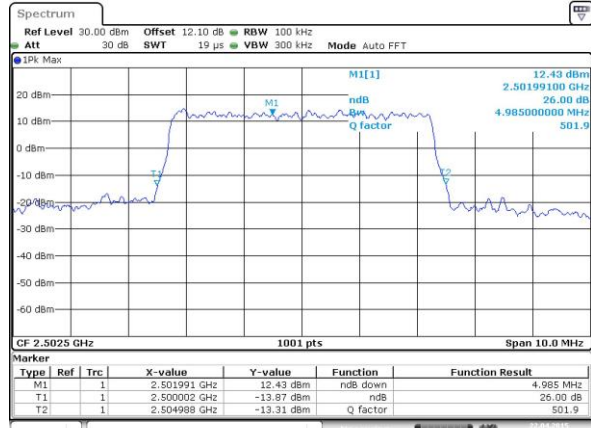
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



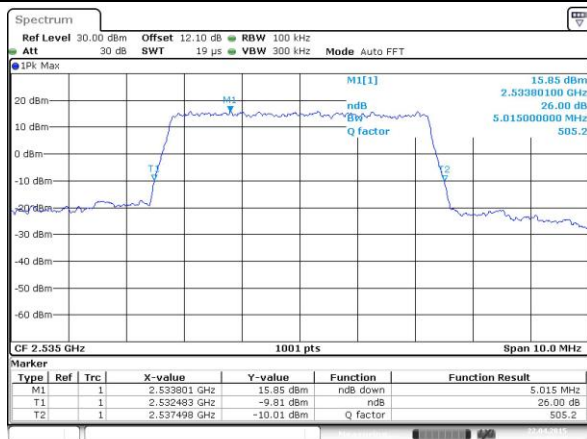
Date: 22 APR 2015 09:44:10

## Lowest Channel / 5MHz / 16QAM



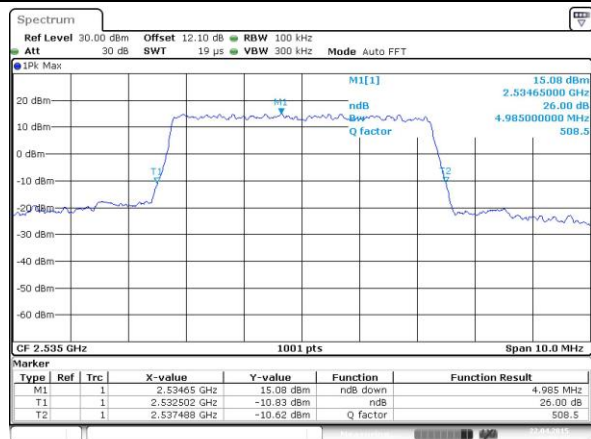
Date: 22 APR 2015 09:44:26

## Middle Channel / 5MHz / QPSK



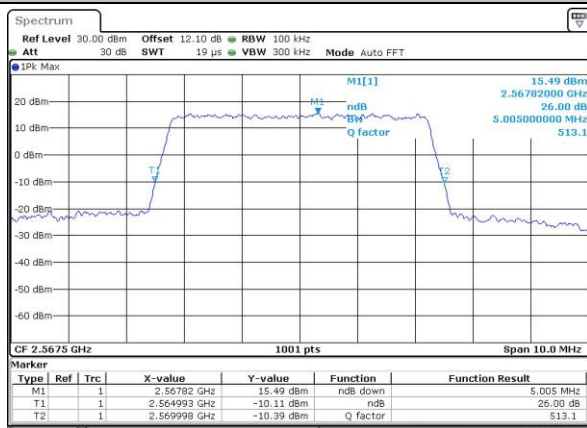
Date: 22 APR 2015 09:53:07

## Middle Channel / 5MHz / 16QAM



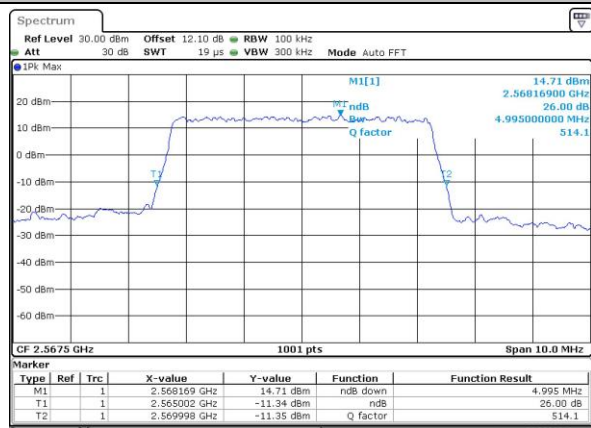
Date: 22 APR 2015 09:53:23

## Highest Channel / 5MHz / QPSK



Date: 22 APR 2015 09:56:48

## Highest Channel / 5MHz / 16QAM

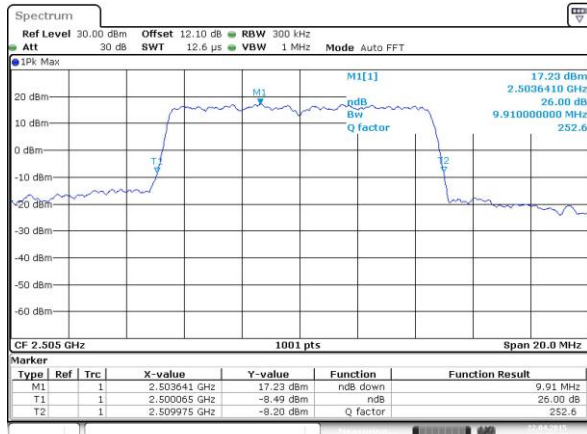


Date: 22 APR 2015 09:57:04

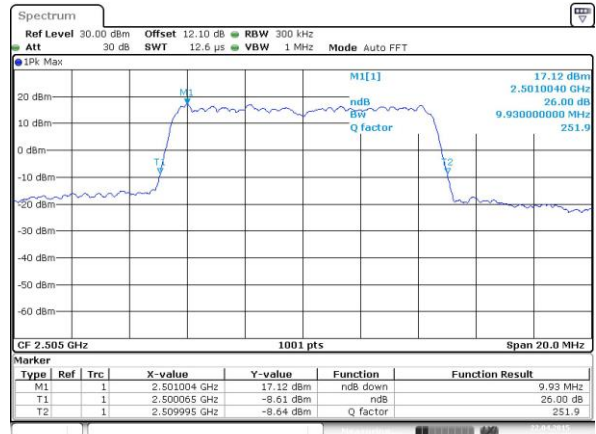


## LTE Band 7

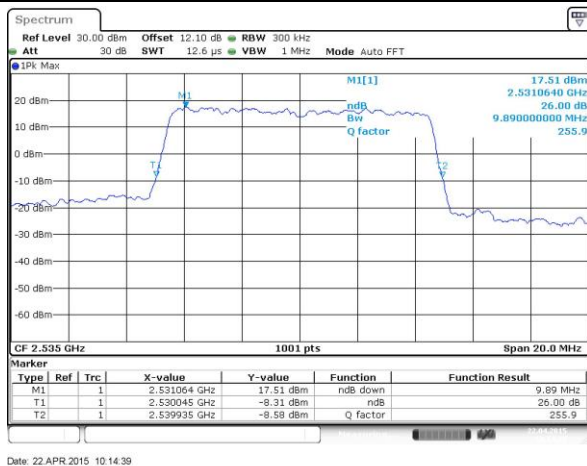
## Lowest Channel / 10MHz / QPSK



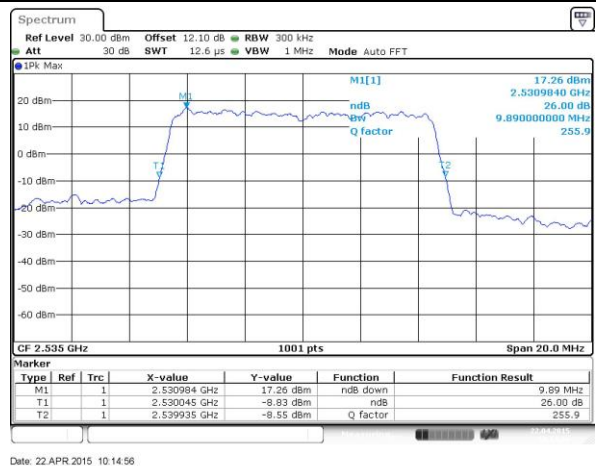
## Lowest Channel / 10MHz / 16QAM



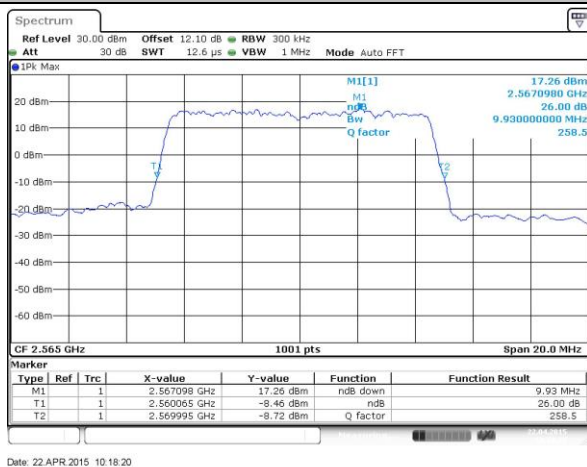
## Middle Channel / 10MHz / QPSK



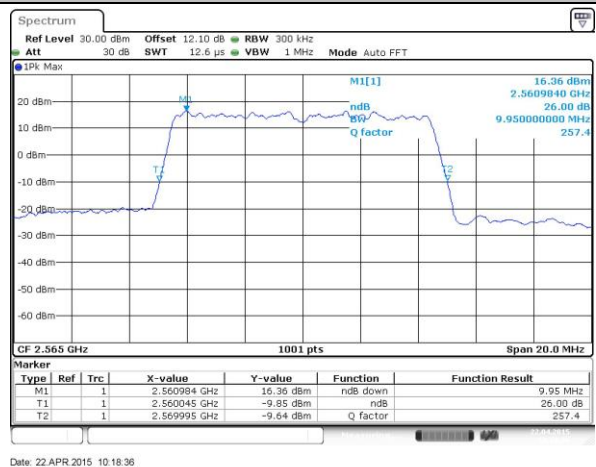
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



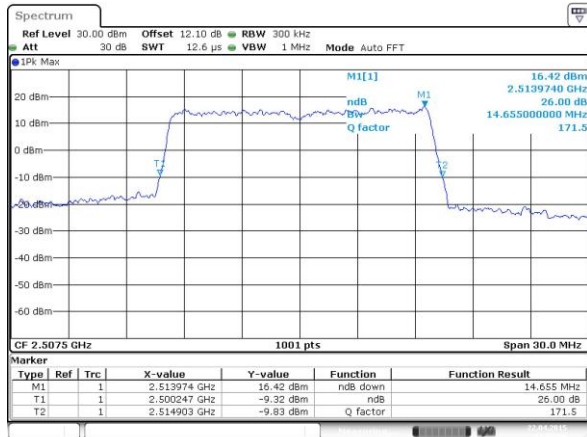
## Highest Channel / 10MHz / 16QAM





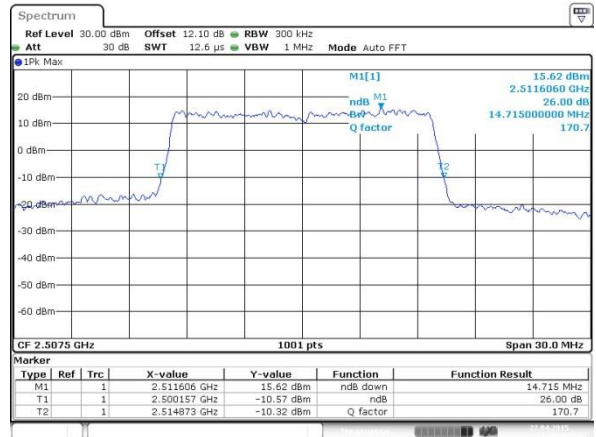
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



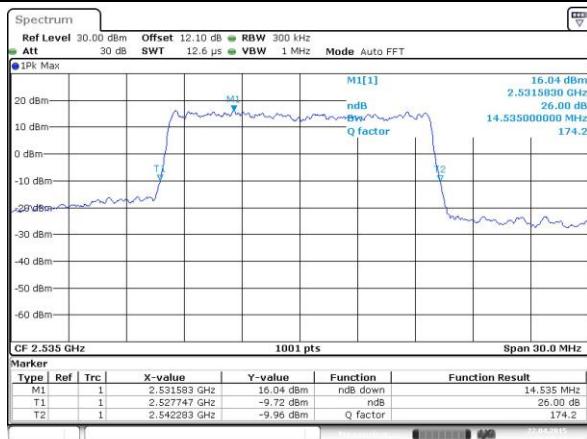
Date: 22 APR 2015 11:27:46

## Lowest Channel / 15MHz / 16QAM



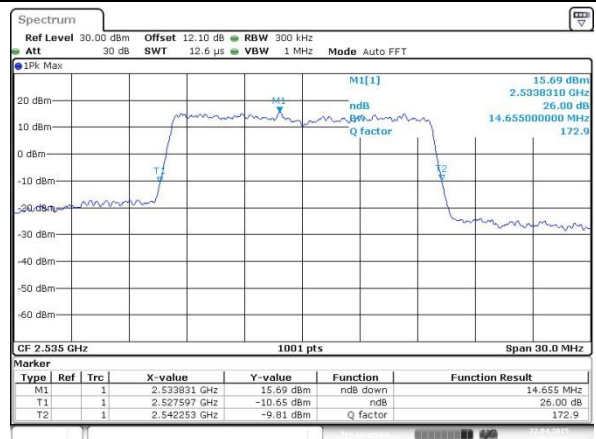
Date: 22 APR 2015 11:28:01

## Middle Channel / 15MHz / QPSK



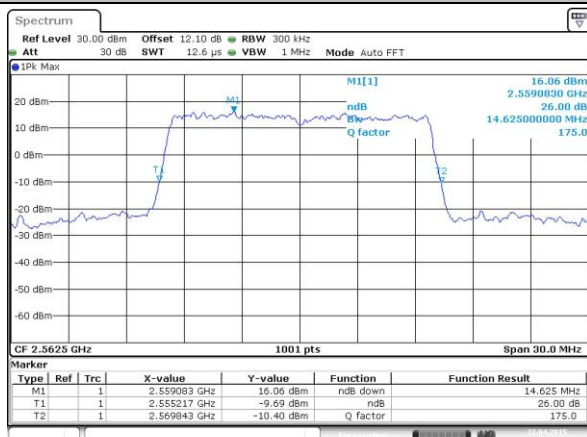
Date: 22 APR 2015 10:36:11

## Middle Channel / 15MHz / 16QAM



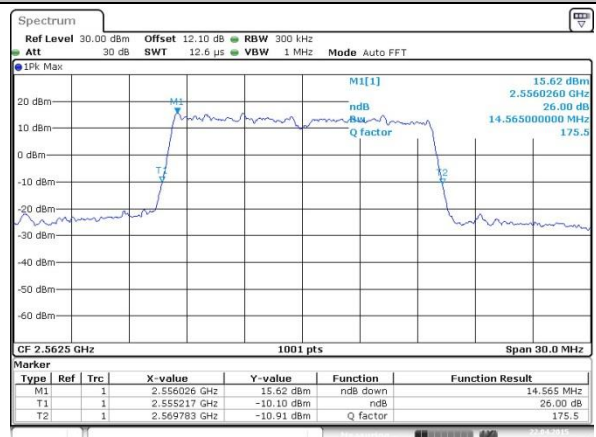
Date: 22 APR 2015 10:36:26

## Highest Channel / 15MHz / QPSK



Date: 22 APR 2015 10:39:47

## Highest Channel / 15MHz / 16QAM



Date: 22 APR 2015 10:40:02