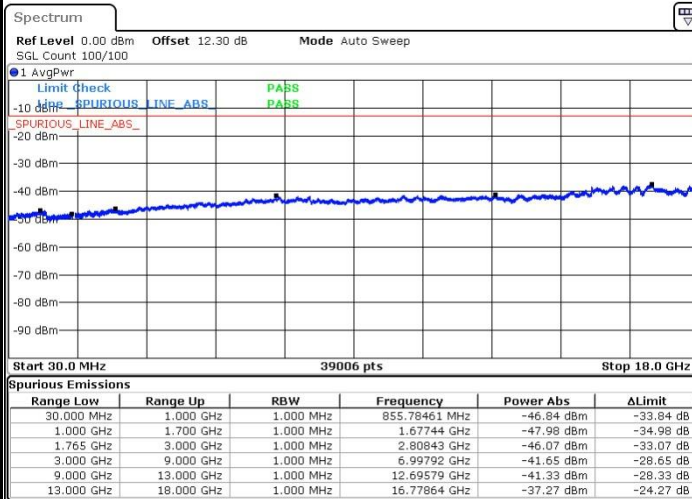




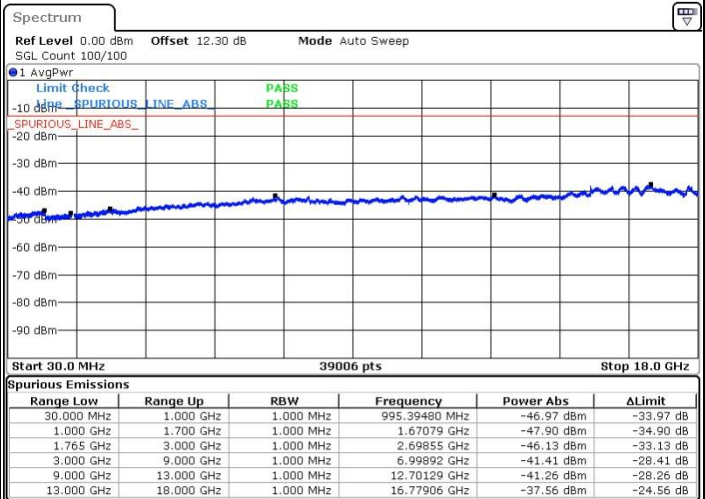
## LTE Band 4 / 15MHz

## Highest Channel / QPSK



Date: 25 AUG 2015 15:05:46

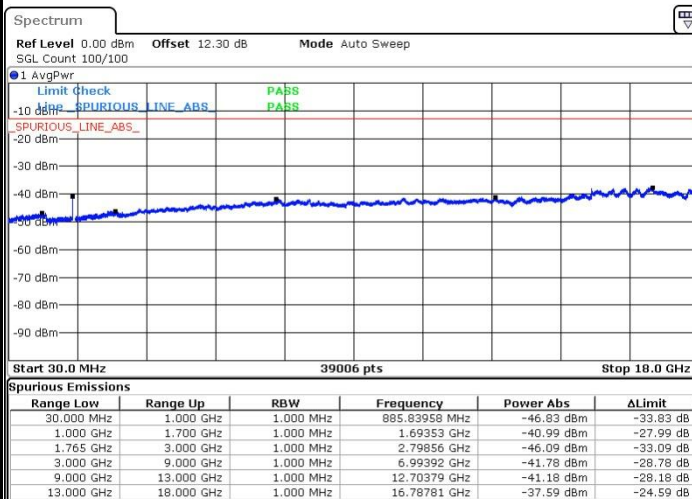
## Highest Channel / 16QAM



Date: 25 AUG 2015 15:06:41

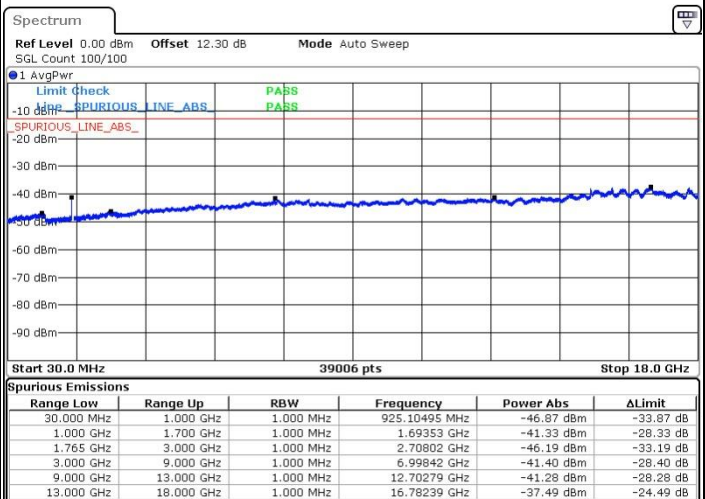
## LTE Band 4 / 20MHz

## Lowest Channel / QPSK



Date: 25 AUG 2015 15:12:56

## Lowest Channel / 16QAM

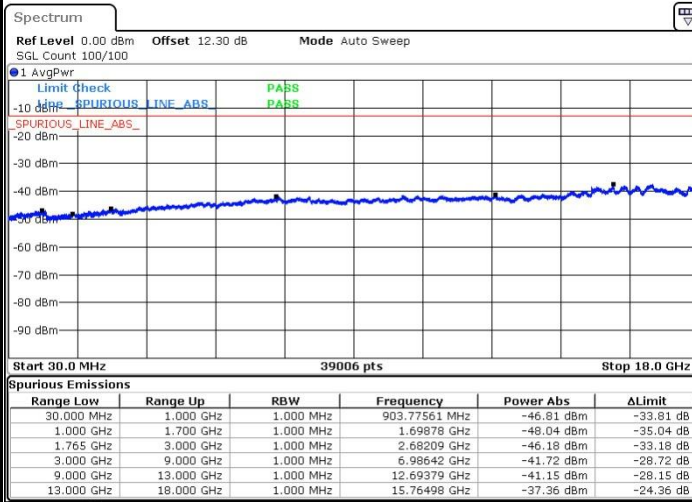


Date: 25 AUG 2015 15:13:50



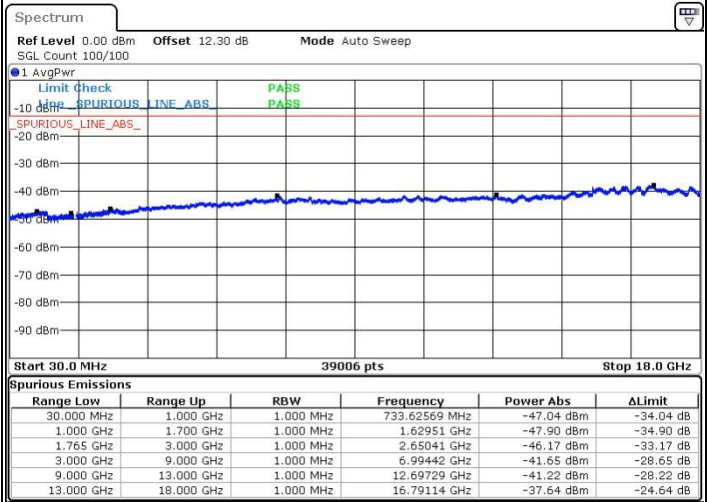
## LTE Band 4 / 20MHz

## Middle Channel / QPSK



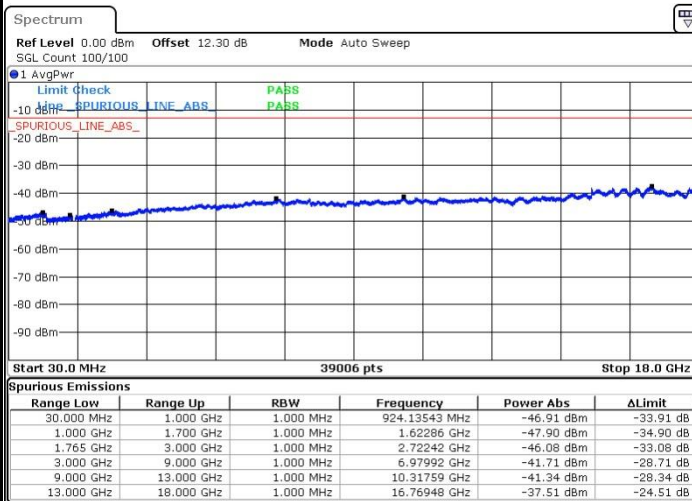
Date: 25 AUG 2015 15:15:27

## Middle Channel / 16QAM



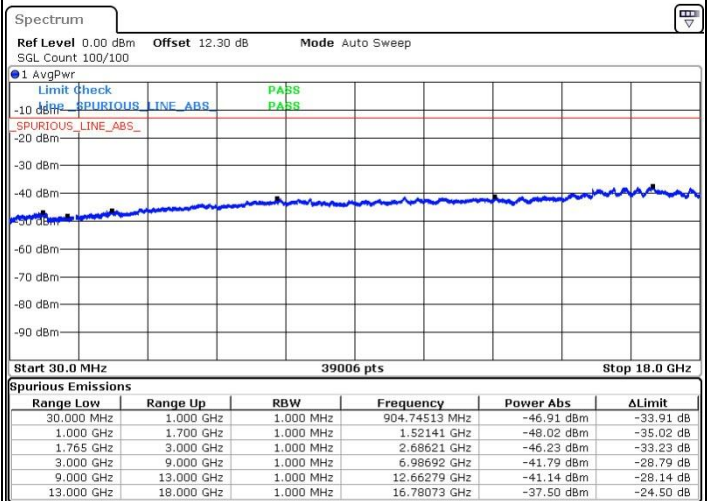
Date: 25 AUG 2015 15:16:22

## Highest Channel / QPSK



Date: 25 AUG 2015 15:22:36

## Highest Channel / 16QAM



Date: 25 AUG 2015 15:23:31

## Frequency Stability

| Test Conditions     |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation (ppm)                    | Result  |
| 50                  | Normal Voltage    | 0.0010                             | PASS    |
| 40                  | Normal Voltage    | 0.0012                             |         |
| 30                  | Normal Voltage    | 0.0005                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0005                             |         |
| 0                   | Normal Voltage    | 0.0006                             |         |
| -10                 | Normal Voltage    | 0.0009                             |         |
| -20                 | Normal Voltage    | 0.0006                             |         |
| -30                 | Normal Voltage    | 0.0003                             |         |
| 20                  | Maximum Voltage   | 0.0006                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Battery End Point | 0.0003                             |         |

**Note:**

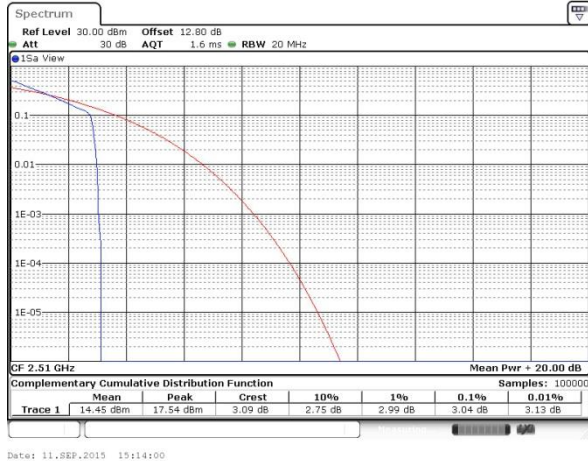
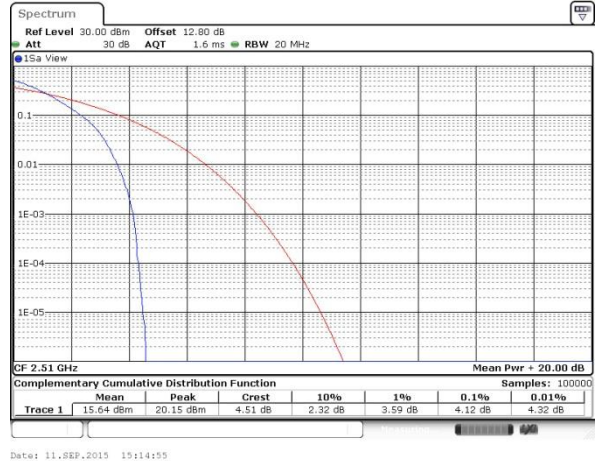
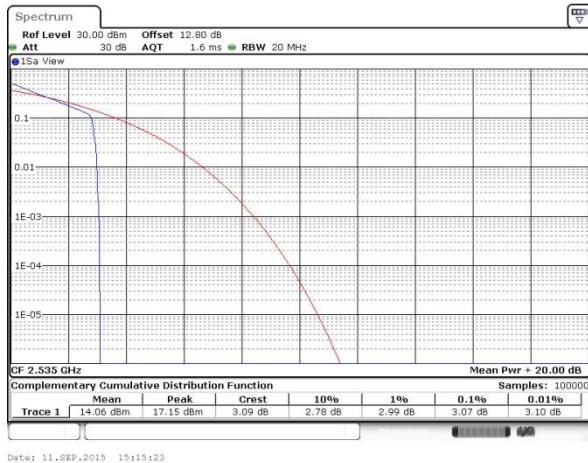
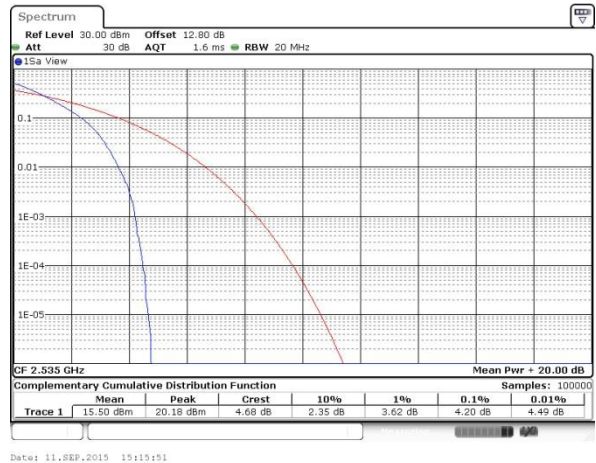
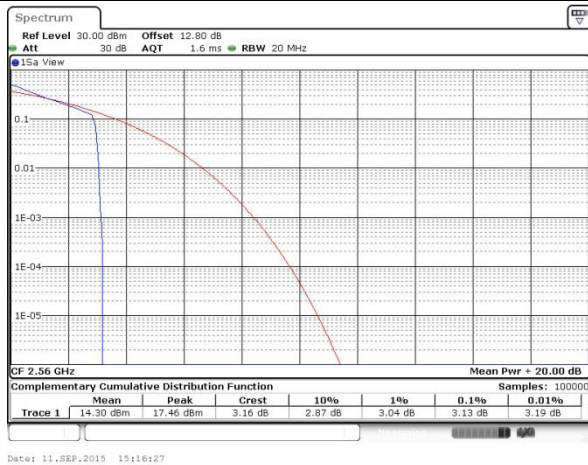
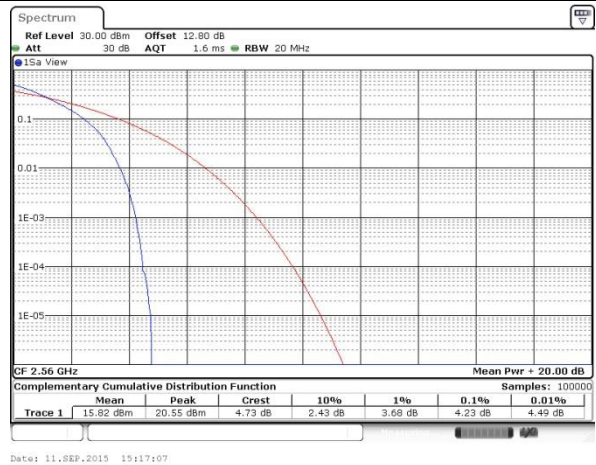
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.

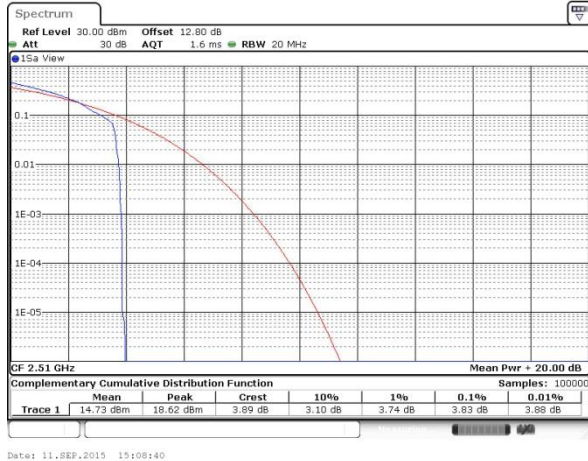
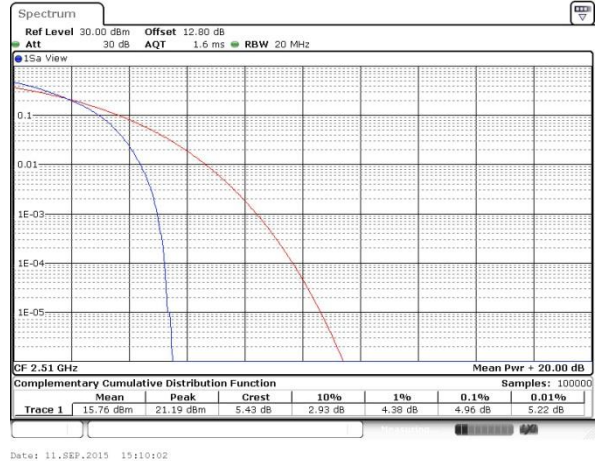
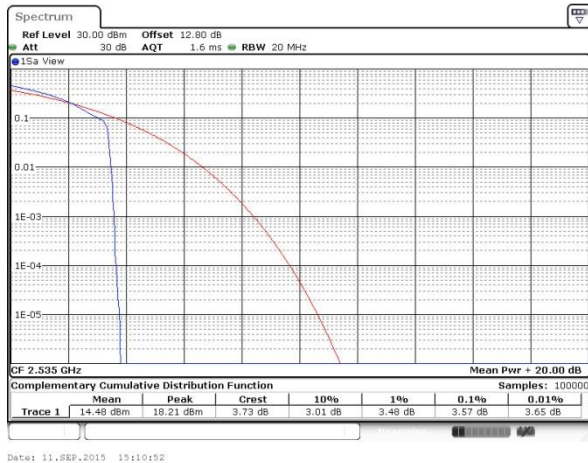
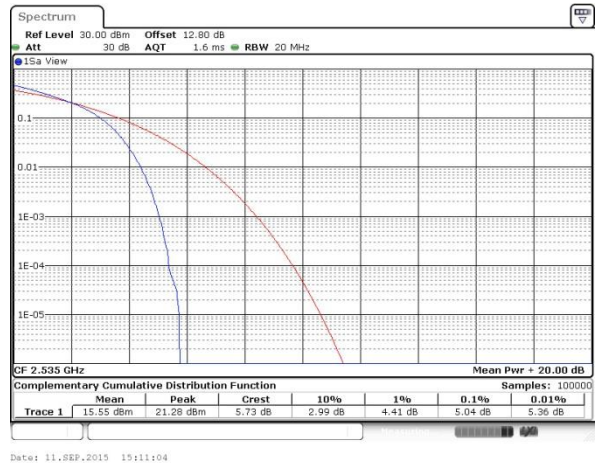
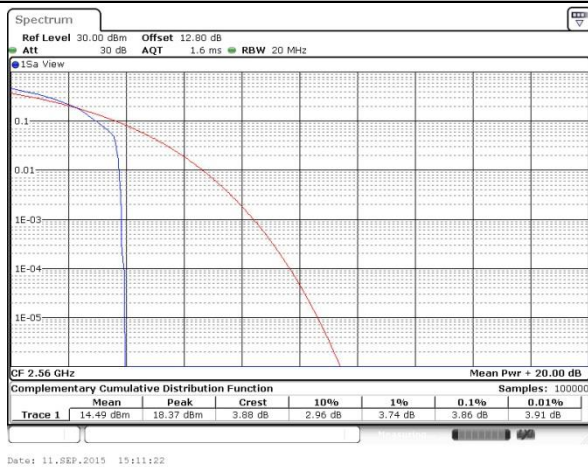


## LTE Band 7

### 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  | 3.04               | 4.12    | 3.83  | 4.96    | PASS        |
| Middle CH  | 3.07               | 4.2     | 3.57  | 5.04    |             |
| Highest CH | 3.13               | 4.23    | 3.86  | 5.04    |             |

**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**



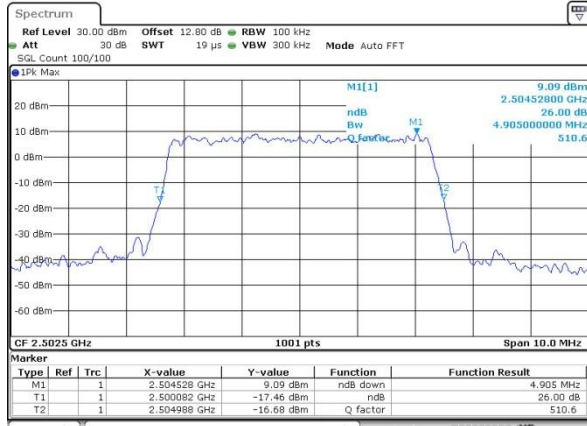

**26dB Bandwidth**

| 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  | -                         | -     | -    | -     | 4.91 | 4.83  | 9.79  | 9.79  | 14.36 | 14.12 | 20.3  | 20.1  |
| Middle CH  | -                         | -     | -    | -     | 4.89 | 4.88  | 9.81  | 9.67  | 14.36 | 14.6  | 20.38 | 20.1  |
| Highest CH | -                         | -     | -    | -     | 4.91 | 4.97  | 9.83  | 9.87  | 14.63 | 14.15 | 20.26 | 20.02 |



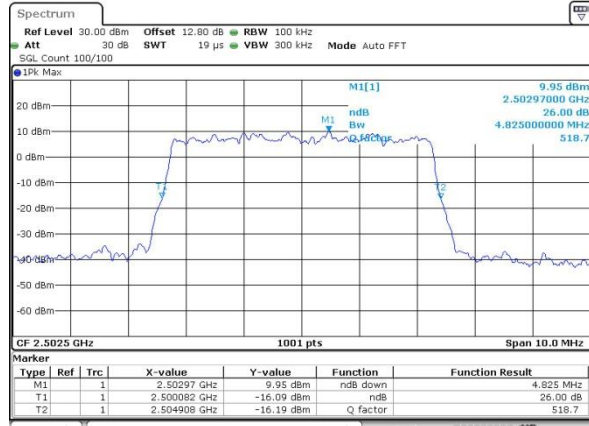
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



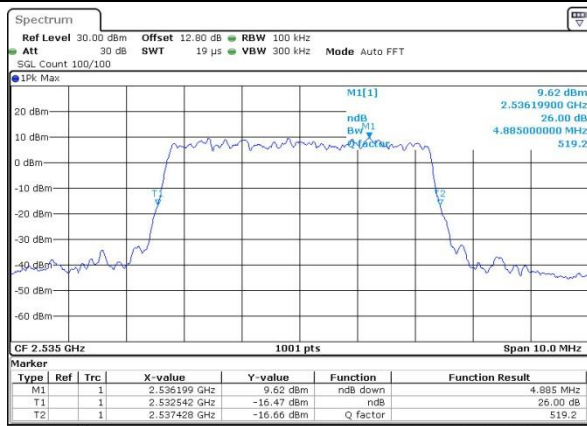
Date: 11.SEP.2015 14:00:00

## Lowest Channel / 5MHz / 16QAM



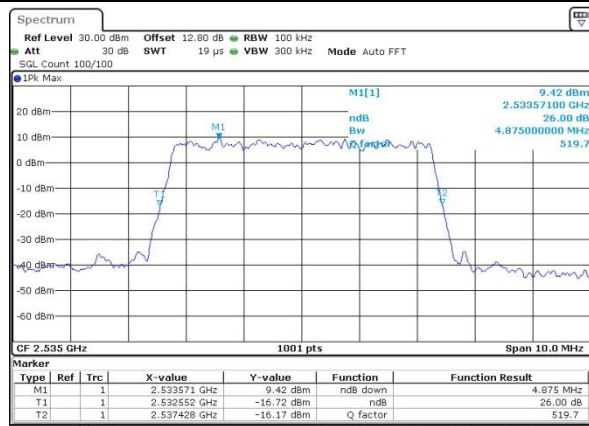
Date: 11.SEP.2015 14:00:12

## Middle Channel / 5MHz / QPSK



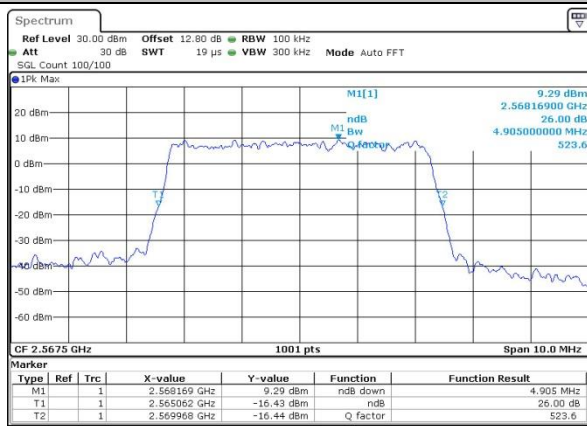
Date: 11.SEP.2015 14:07:18

## Middle Channel / 5MHz / 16QAM



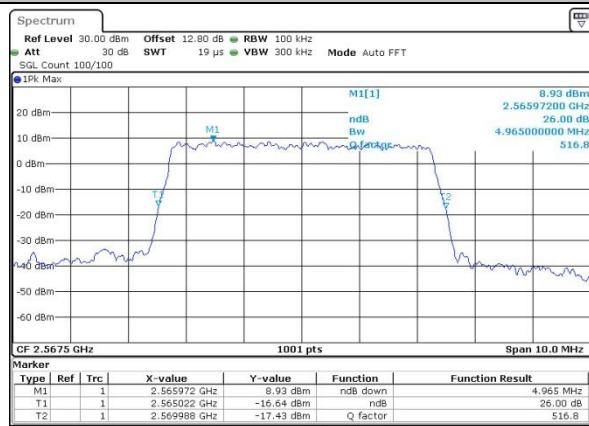
Date: 11.SEP.2015 14:07:30

## Highest Channel / 5MHz / QPSK



Date: 11.SEP.2015 14:09:57

## Highest Channel / 5MHz / 16QAM

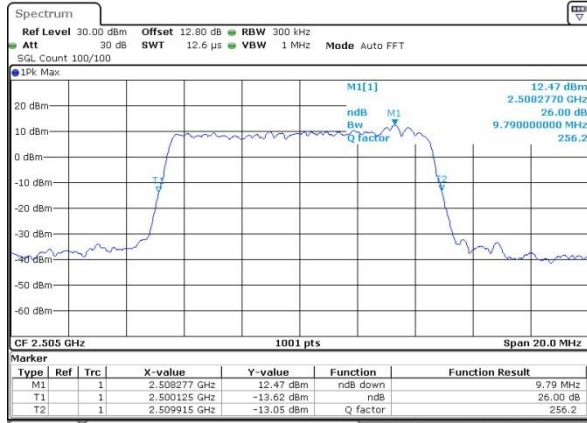


Date: 11.SEP.2015 14:10:08



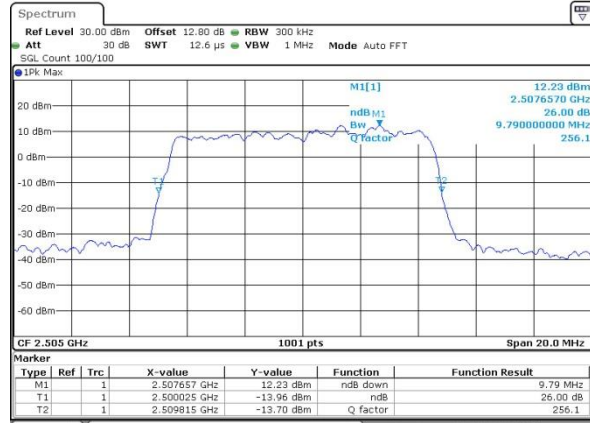
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



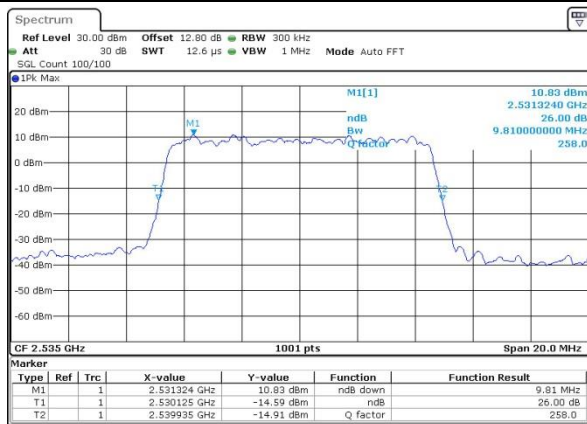
Date: 11.SEP.2015 14:17:15

## Lowest Channel / 10MHz / 16QAM



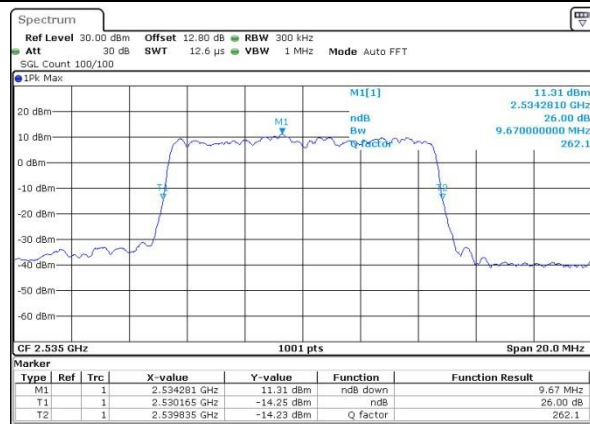
Date: 11.SEP.2015 14:17:27

## Middle Channel / 10MHz / QPSK



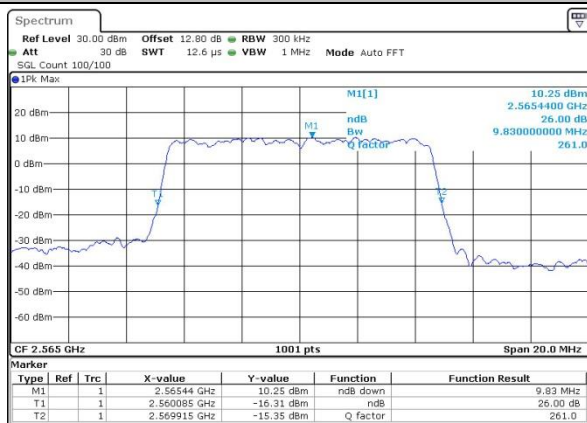
Date: 11.SEP.2015 14:24:33

## Middle Channel / 10MHz / 16QAM



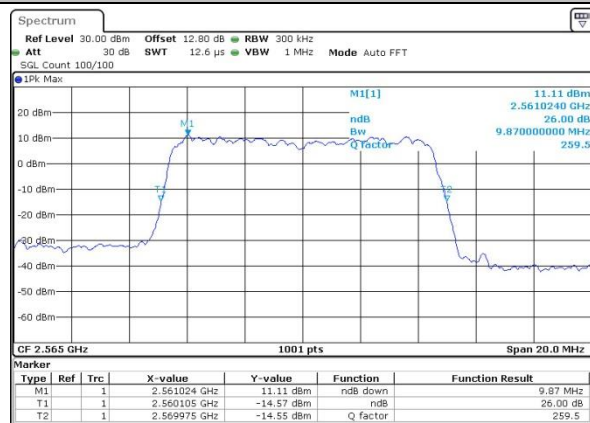
Date: 11.SEP.2015 14:24:44

## Highest Channel / 10MHz / QPSK



Date: 11.SEP.2015 14:27:11

## Highest Channel / 10MHz / 16QAM

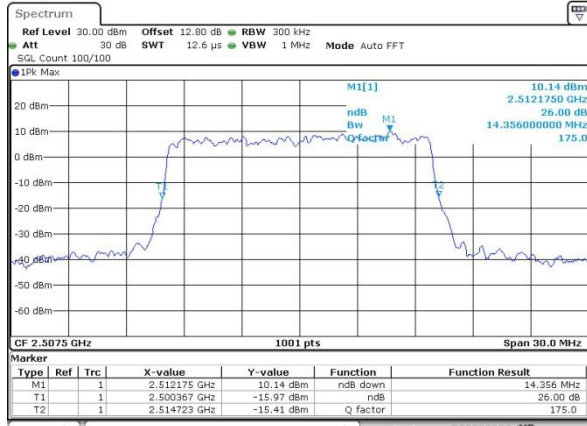


Date: 11.SEP.2015 14:27:23



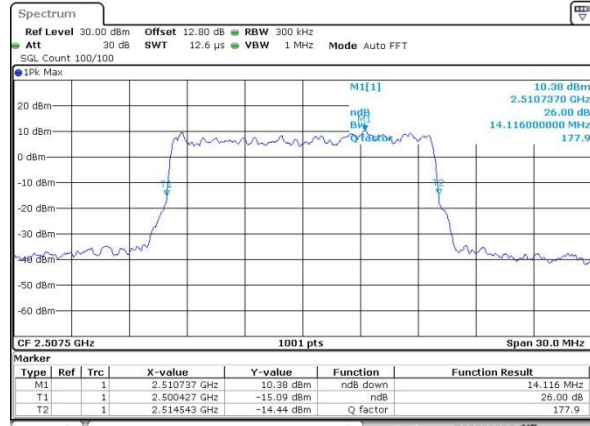
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



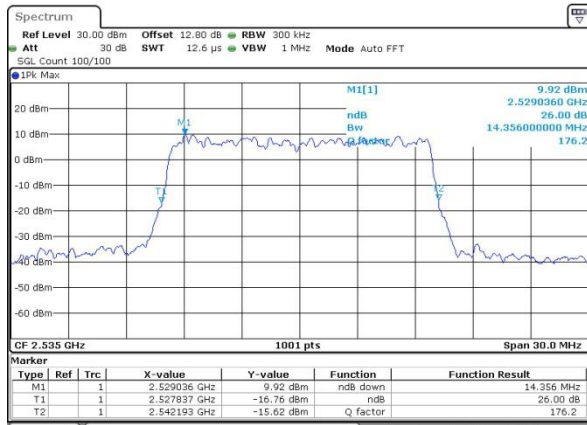
Date: 11.SEP.2015 14:34:29

## Lowest Channel / 15MHz / 16QAM



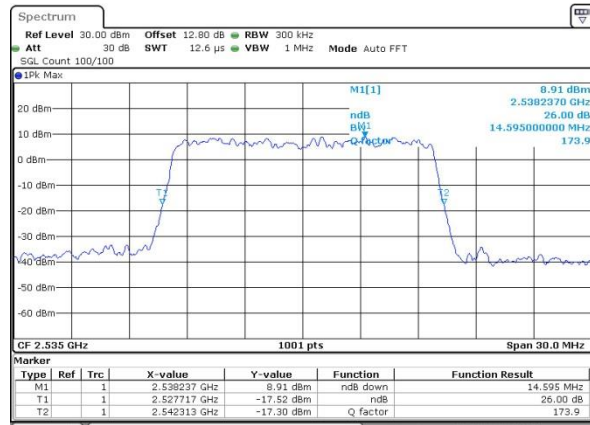
Date: 11.SEP.2015 14:34:41

## Middle Channel / 15MHz / QPSK



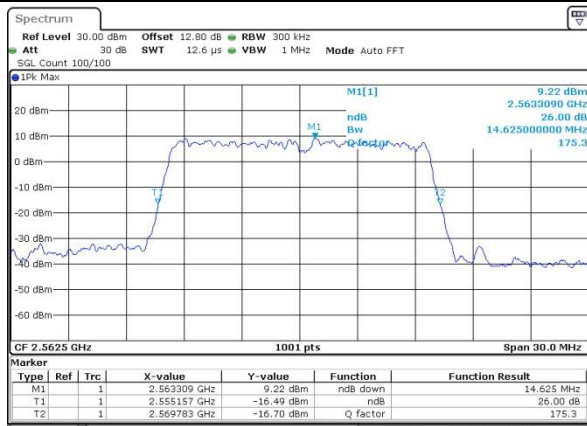
Date: 11.SEP.2015 14:41:47

## Middle Channel / 15MHz / 16QAM



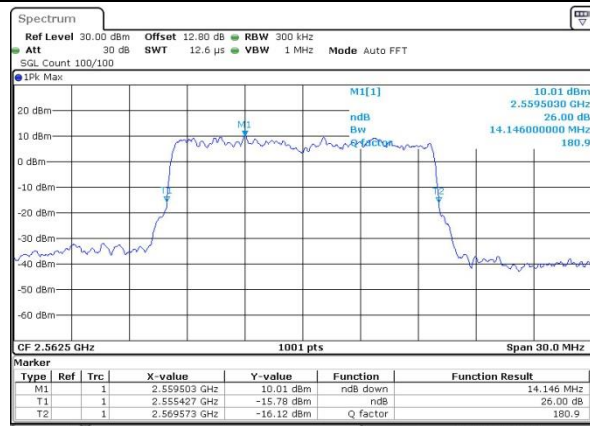
Date: 11.SEP.2015 14:41:59

## Highest Channel / 15MHz / QPSK



Date: 11.SEP.2015 14:44:25

## Highest Channel / 15MHz / 16QAM

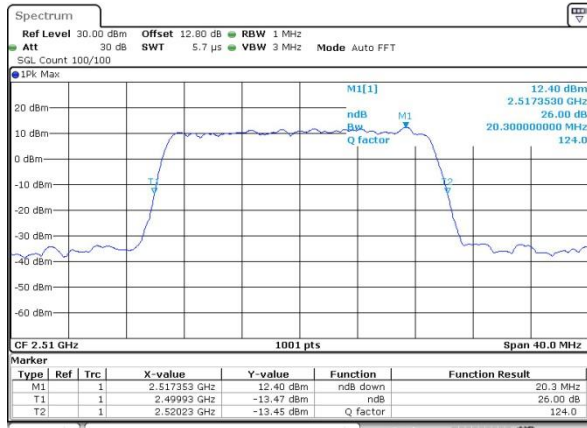


Date: 11.SEP.2015 14:44:37

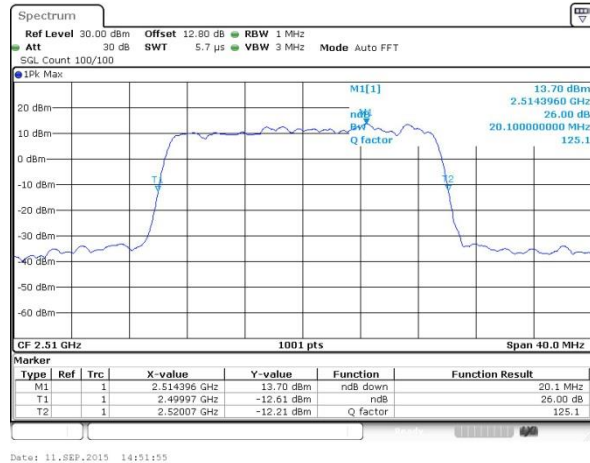


## LTE Band 7

## Lowest Channel / 20MHz / QPSK



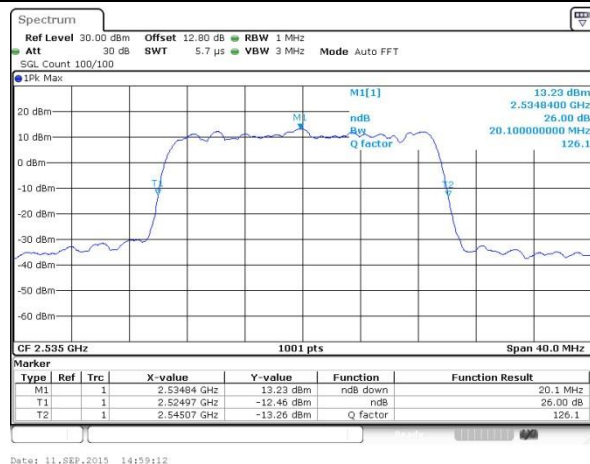
## Lowest Channel / 20MHz / 16QAM



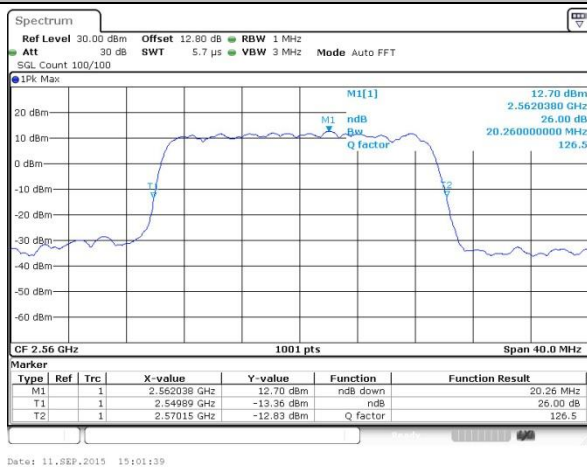
## Middle Channel / 20MHz / QPSK



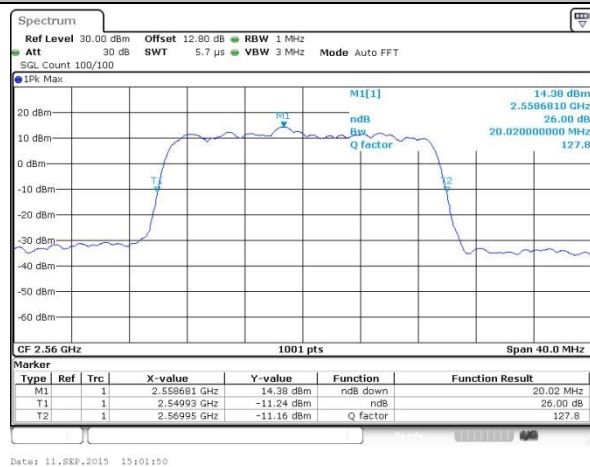
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





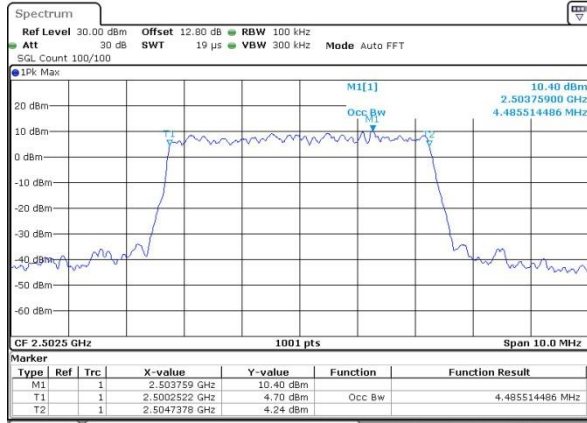
## Occupied Bandwidth

| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.49 | 4.48  | 9.01  | 8.99  | 13.43 | 13.46 | 18.3  | 18.3  |
| Middle CH  | -                        | -     | -    | -     | 4.49 | 4.48  | 9.11  | 9.01  | 13.46 | 13.4  | 18.34 | 18.3  |
| Highest CH | -                        | -     | -    | -     | 4.5  | 4.47  | 9.01  | 8.97  | 13.46 | 13.43 | 18.22 | 18.38 |

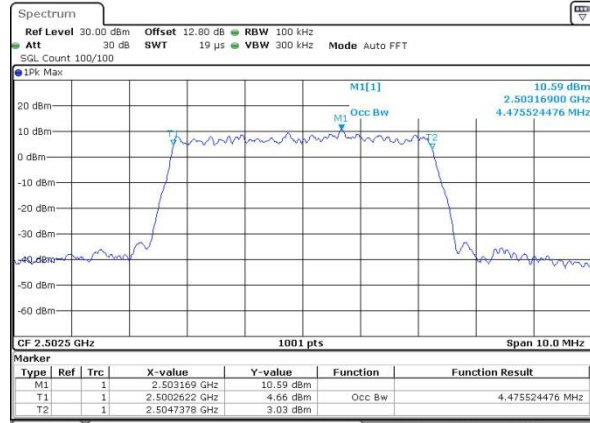


## LTE Band 7

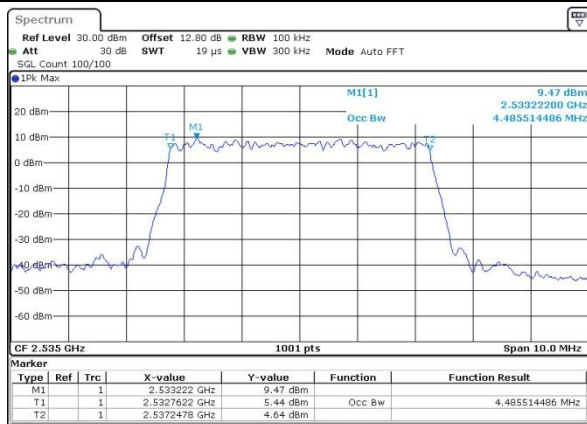
## Lowest Channel / 5MHz / QPSK



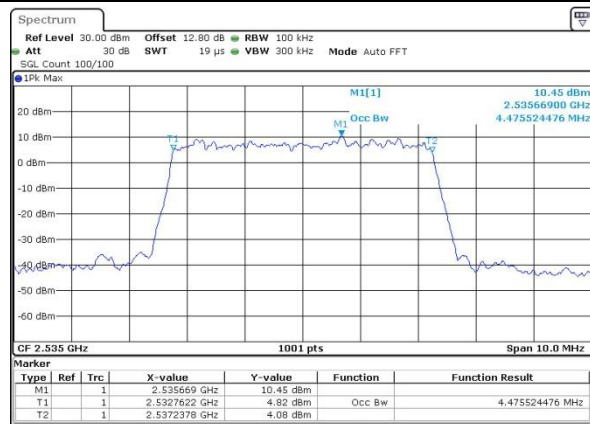
## Lowest Channel / 5MHz / 16QAM



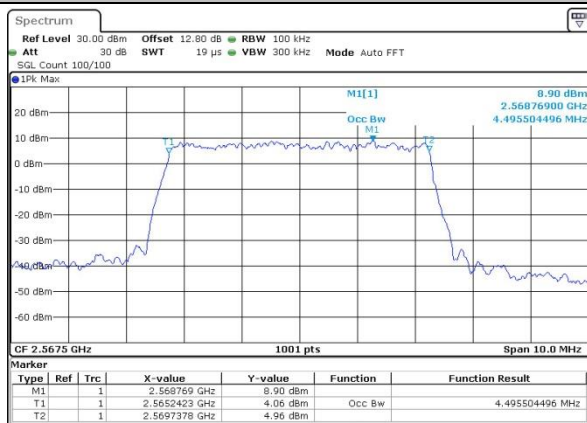
## Middle Channel / 5MHz / QPSK



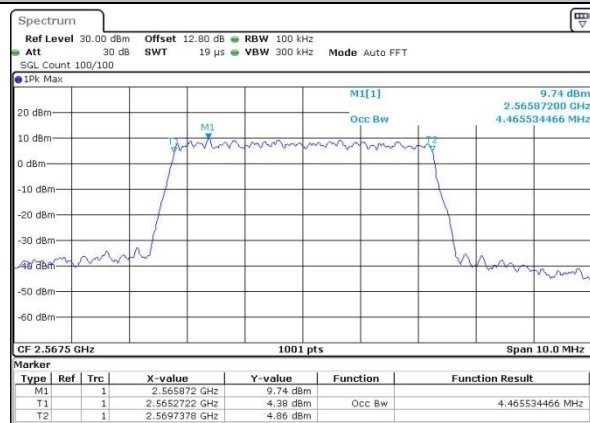
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



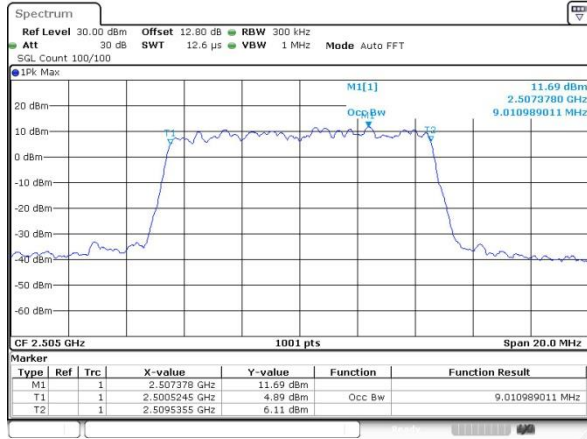
## Highest Channel / 5MHz / 16QAM



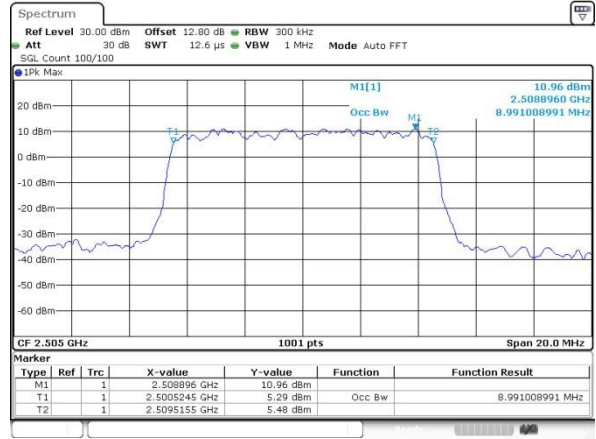


## LTE Band 7

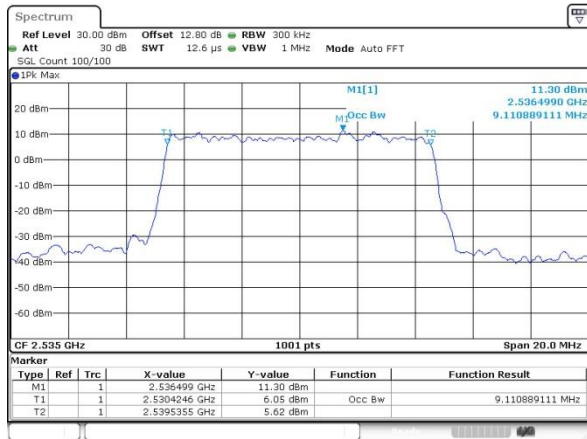
## Lowest Channel / 10MHz / QPSK



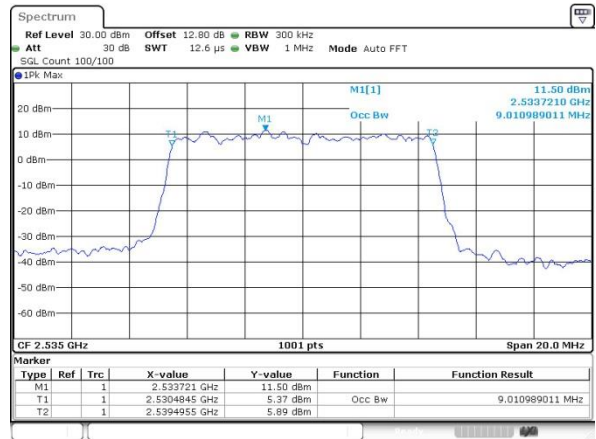
## Lowest Channel / 10MHz / 16QAM



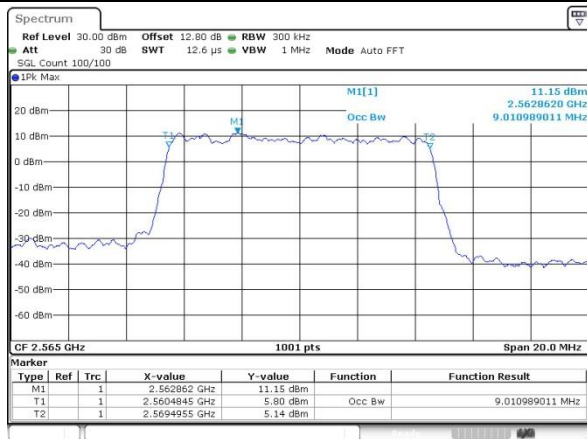
## Middle Channel / 10MHz / QPSK



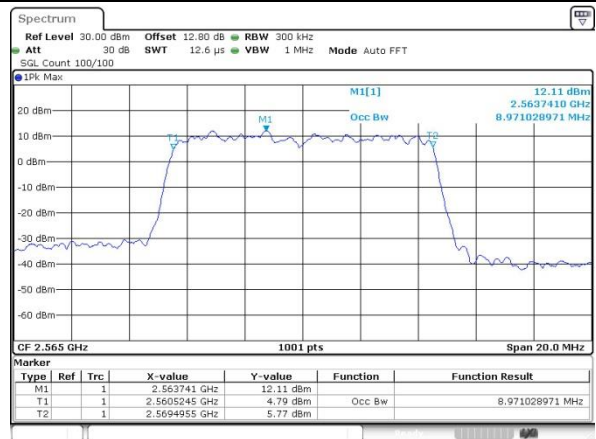
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



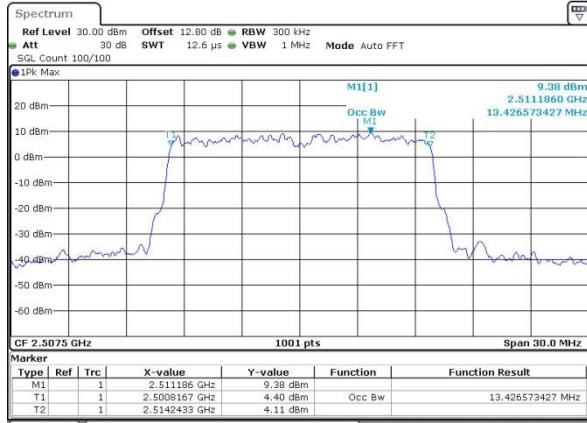
## Highest Channel / 10MHz / 16QAM



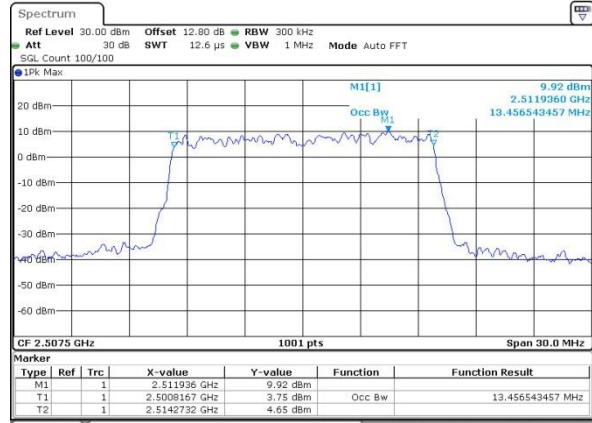


## LTE Band 7

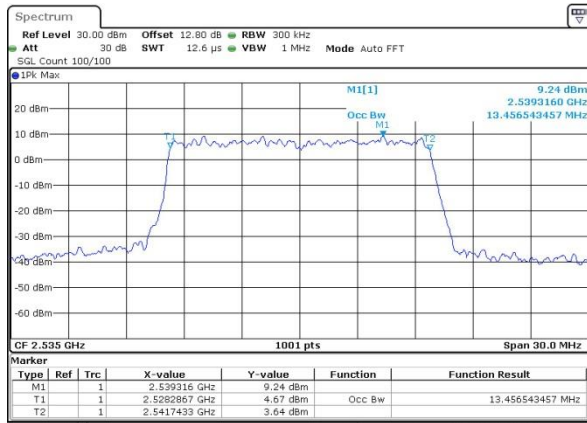
## Lowest Channel / 15MHz / QPSK



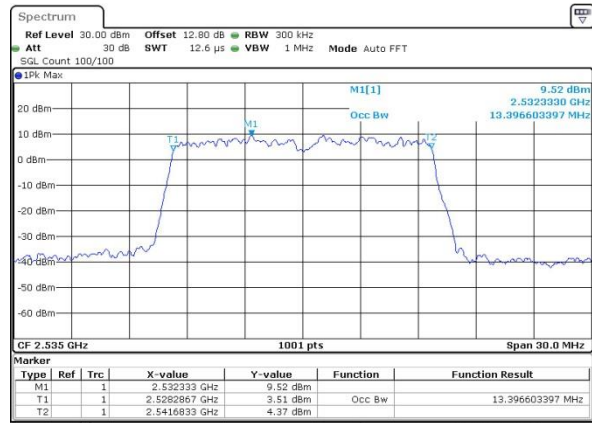
## Lowest Channel / 15MHz / 16QAM



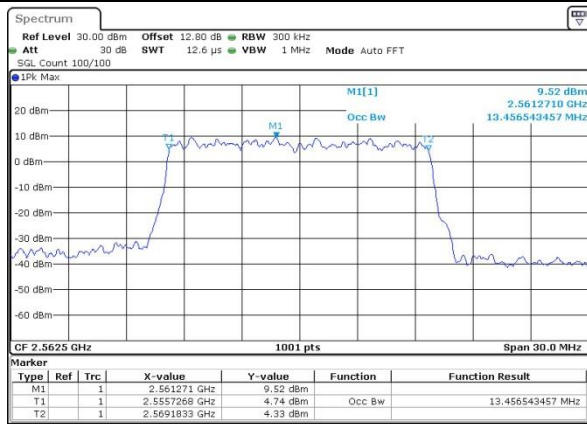
## Middle Channel / 15MHz / QPSK



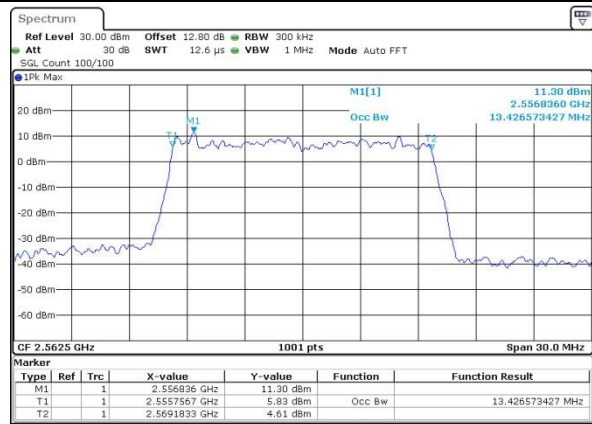
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



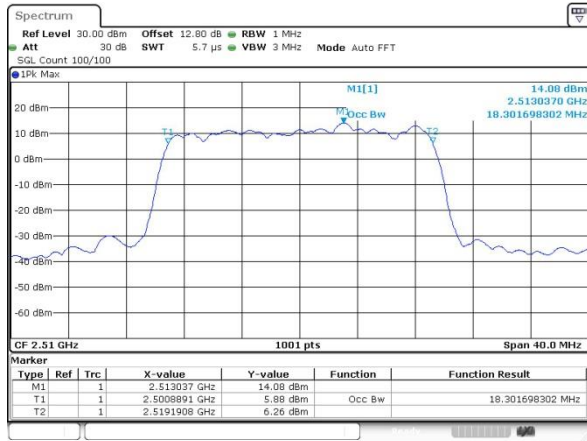
## Highest Channel / 15MHz / 16QAM



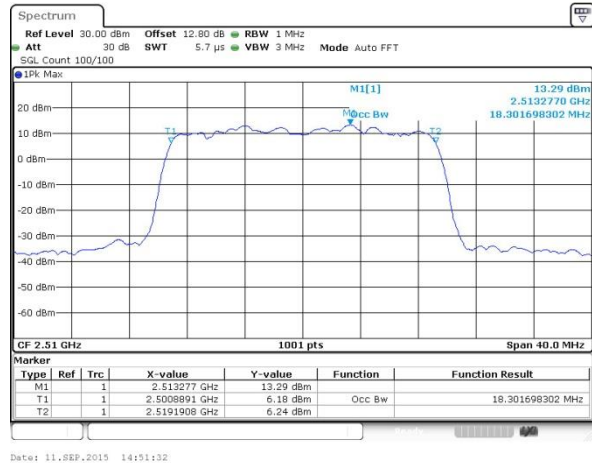


## LTE Band 7

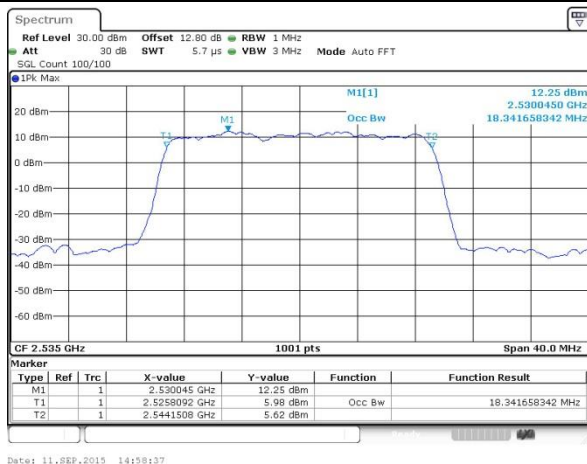
## Lowest Channel / 20MHz / QPSK



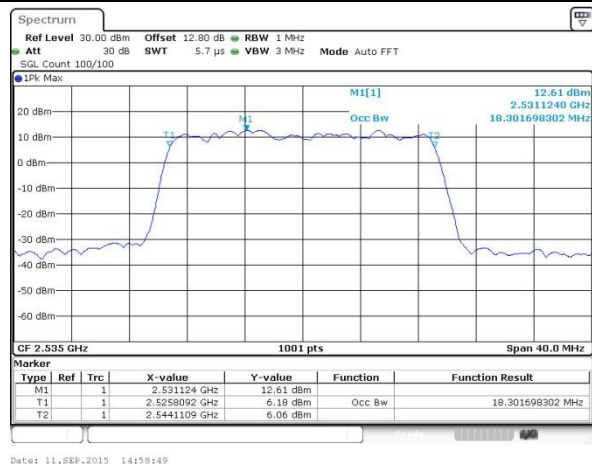
## Lowest Channel / 20MHz / 16QAM



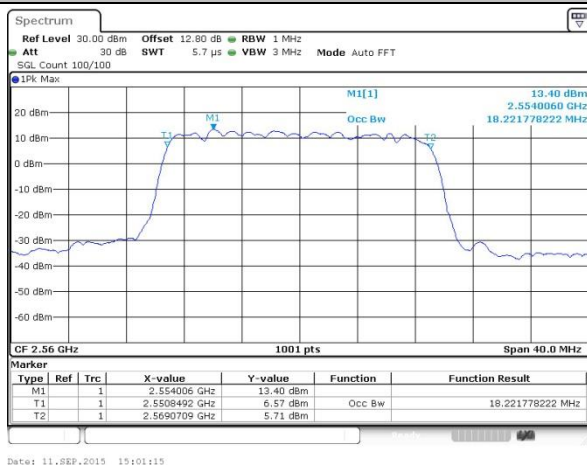
## Middle Channel / 20MHz / QPSK



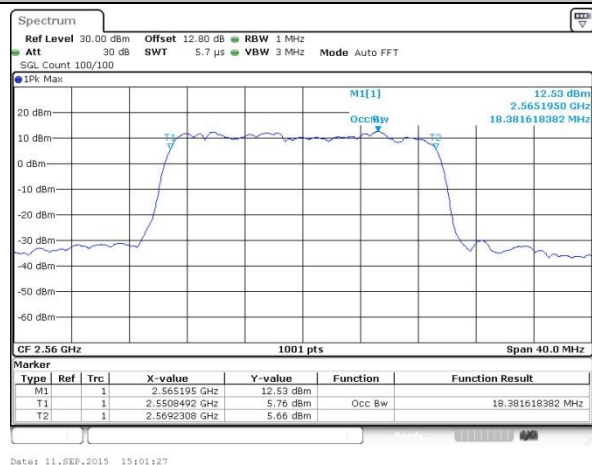
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM



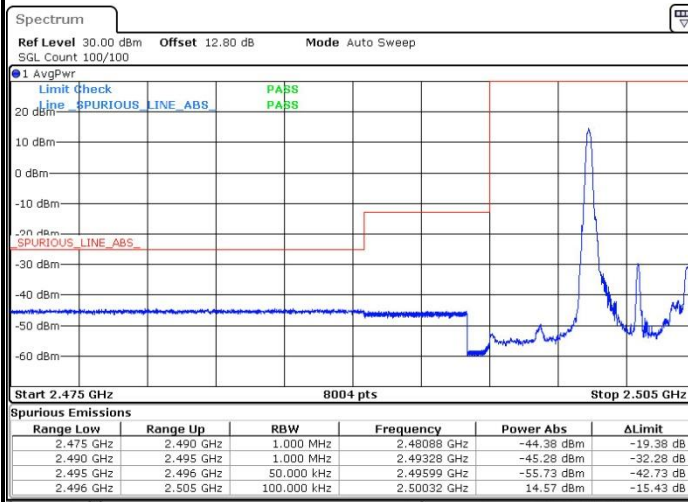


## **Conducted Band Edge**

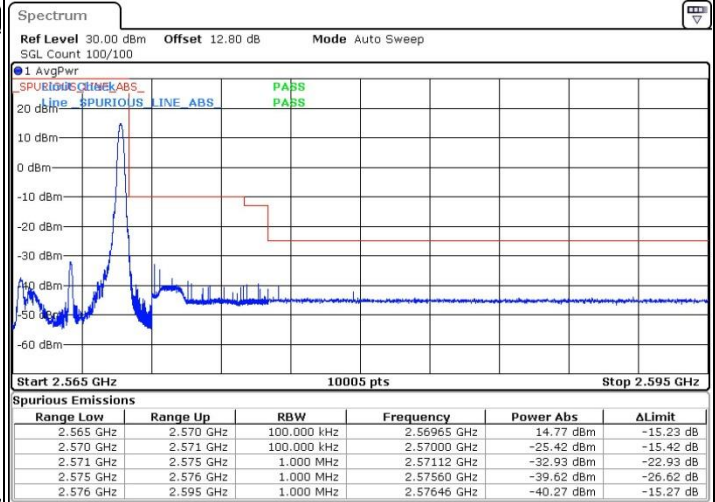


## LTE Band 7 / 5MHz / QPSK

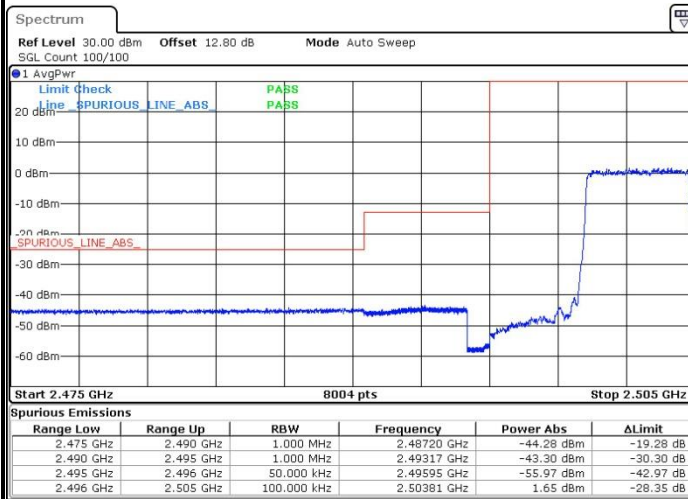
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

