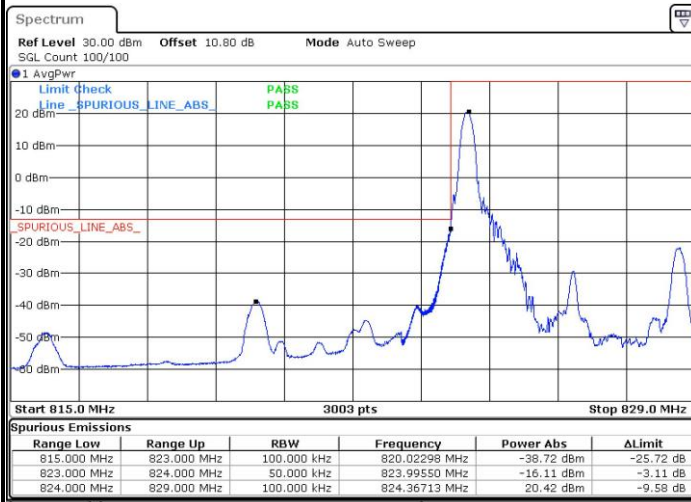


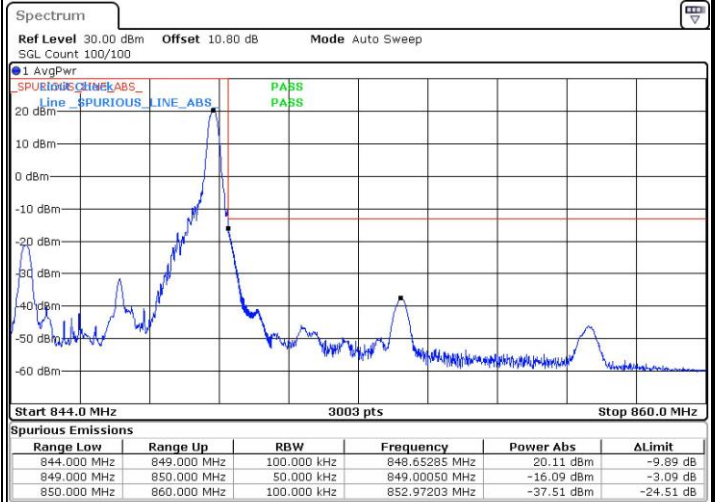


## LTE Band 5 / 5MHz / 16QAM

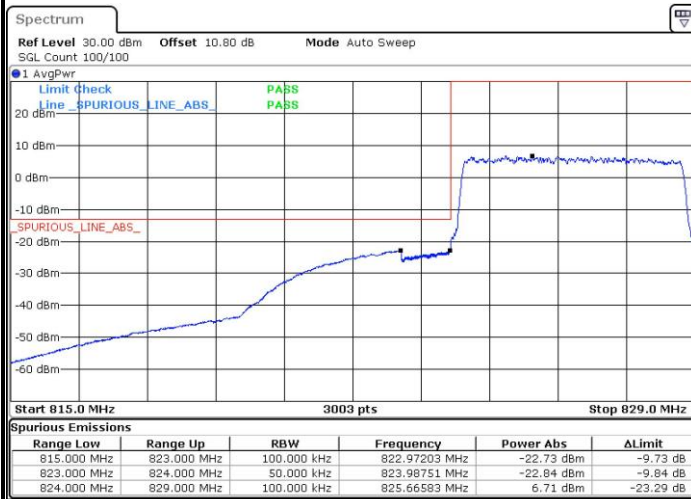
## Lowest Band Edge / 1RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



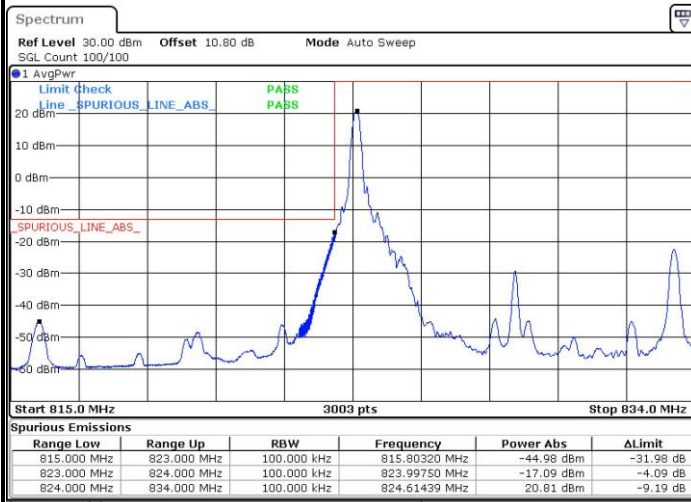
## Highest Band Edge / Full RB





## LTE Band 5 / 10MHz / QPSK

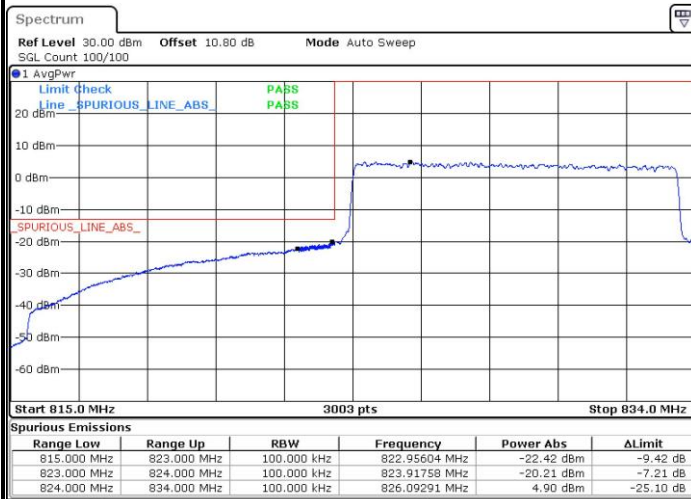
## Lowest Band Edge / 1 RB



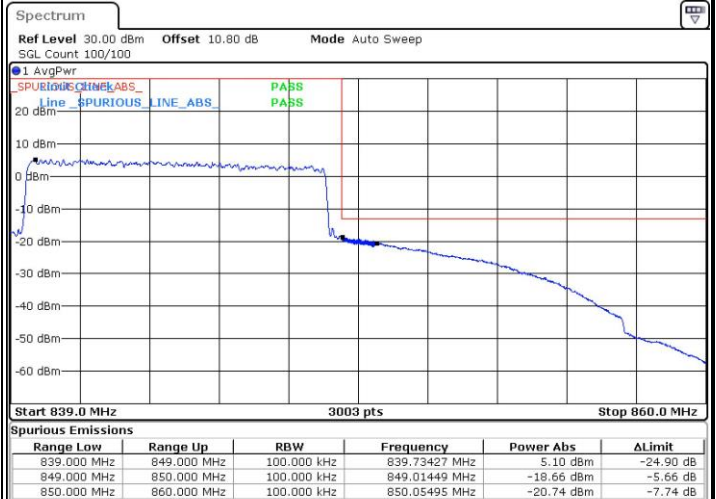
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



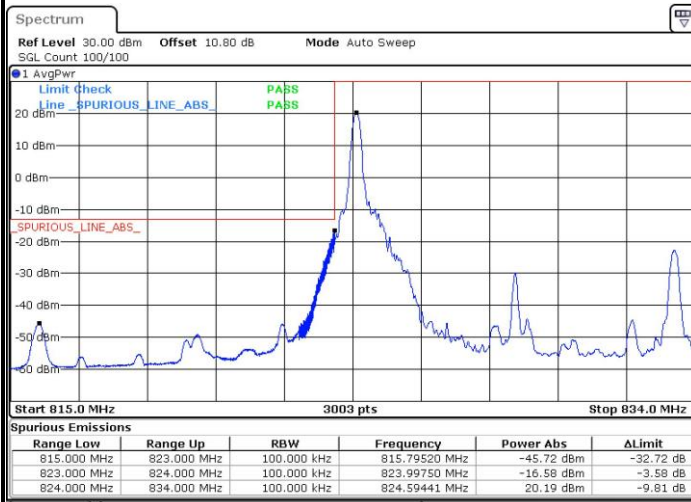
## Highest Band Edge / Full RB



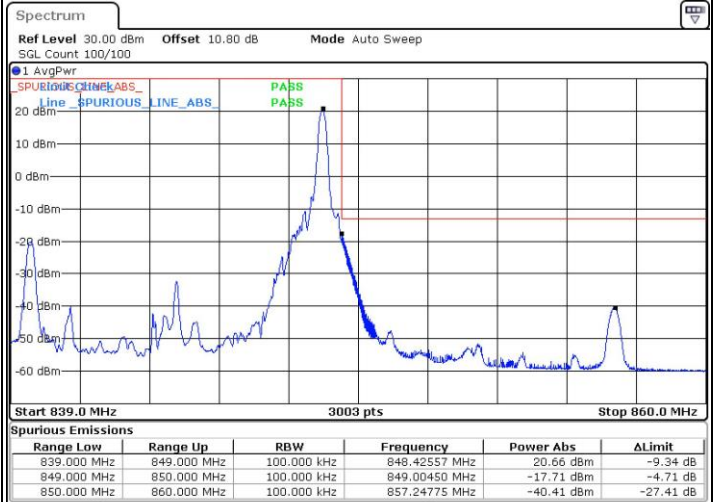


## LTE Band 5 / 10MHz / 16QAM

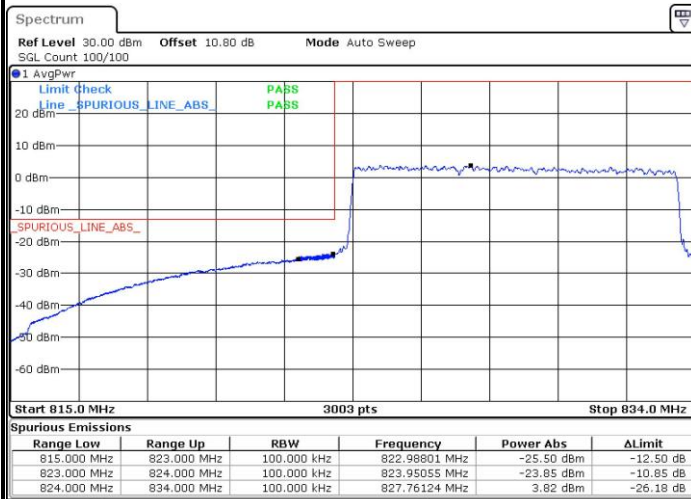
## Lowest Band Edge / 1 RB



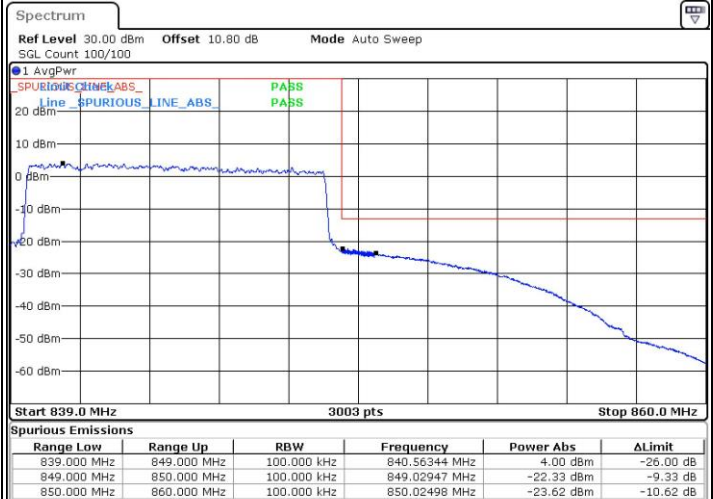
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

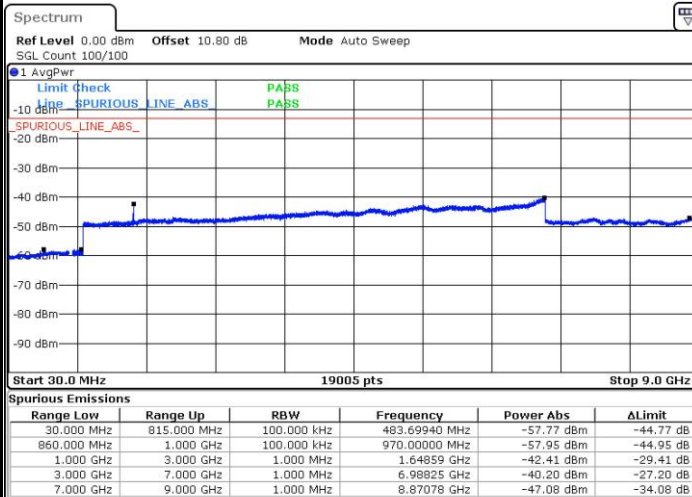




# Conducted Spurious Emission

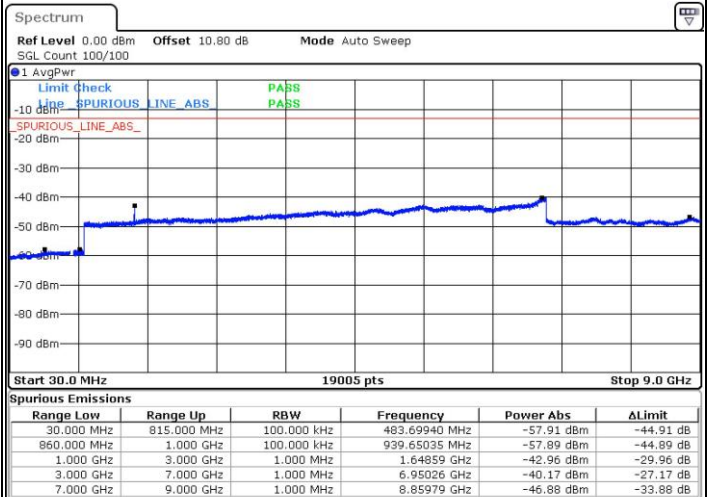
## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK



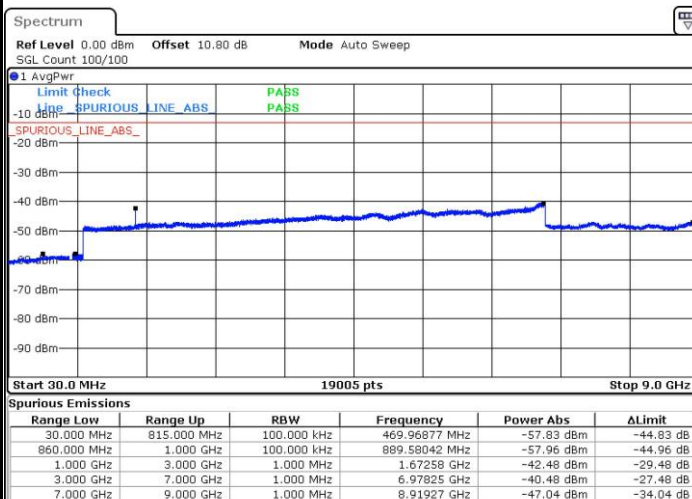
Date: 8.OCT.2016 10:25:27

### Lowest Channel / 16QAM



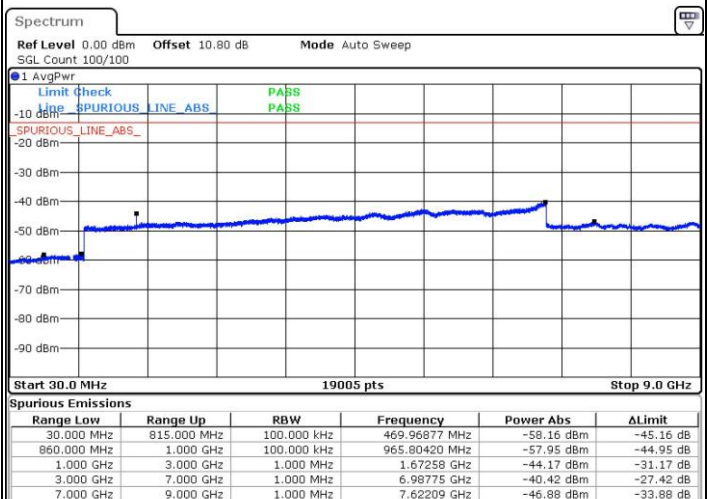
Date: 8.OCT.2016 10:26:26

### Middle Channel / QPSK



Date: 8.OCT.2016 10:28:11

### Middle Channel / 16QAM

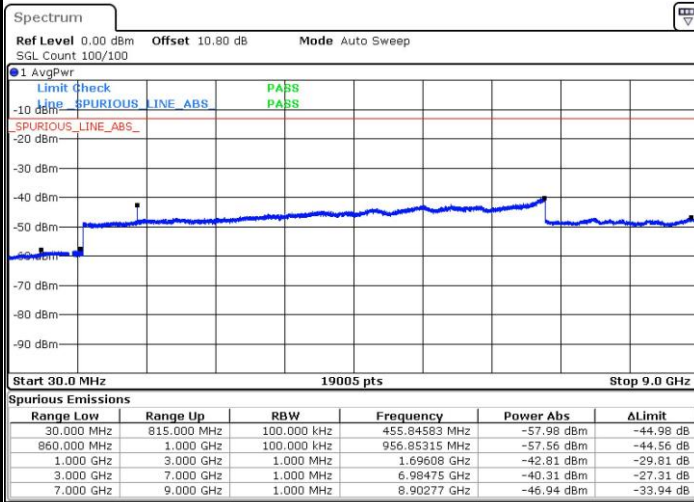


Date: 8.OCT.2016 10:29:10



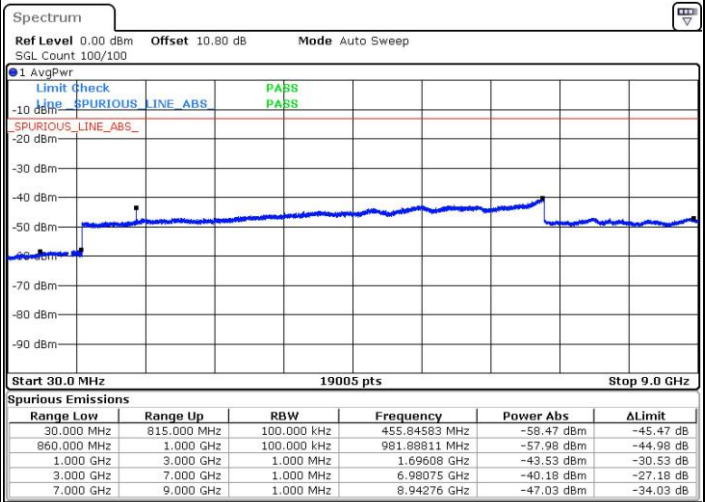
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 8.OCT.2016 10:37:33

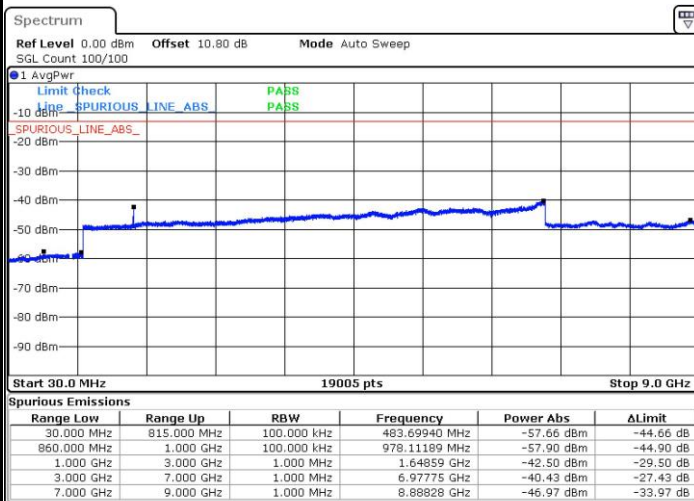
## Highest Channel / 16QAM



Date: 8.OCT.2016 10:38:32

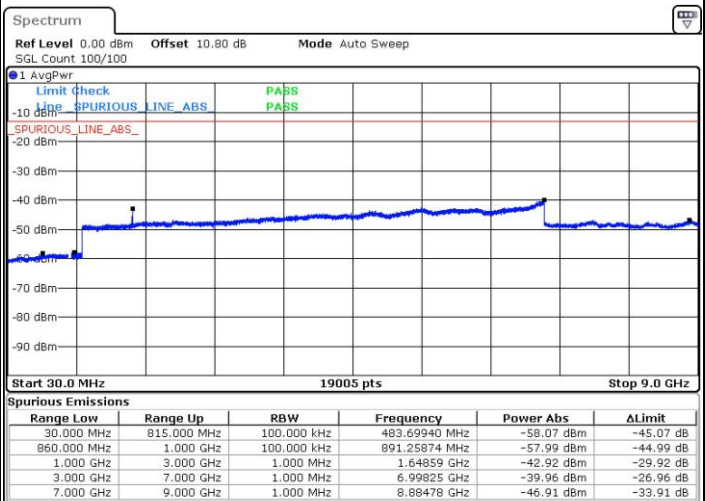
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 8.OCT.2016 09:21:01

## Lowest Channel / 16QAM

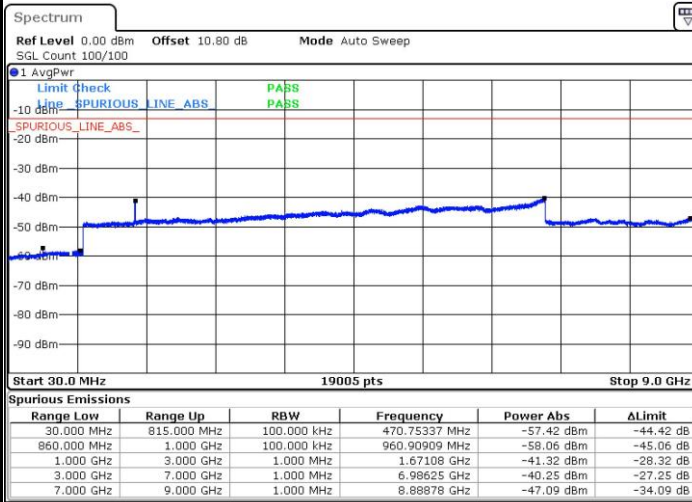


Date: 8.OCT.2016 09:22:00



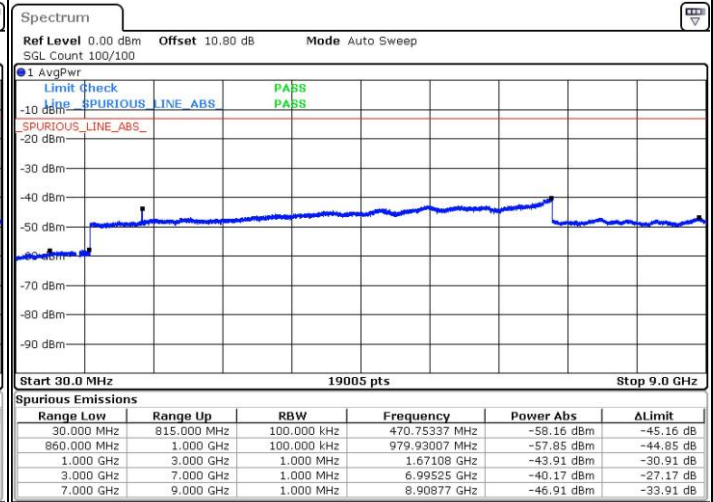
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



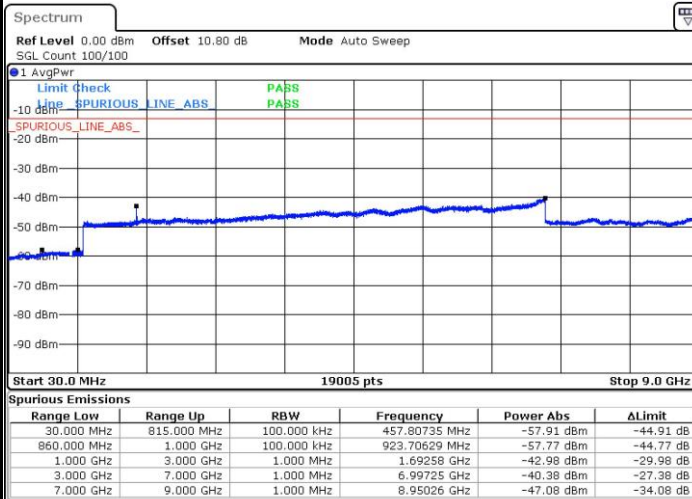
Date: 8.OCT.2016 09:23:46

## Middle Channel / 16QAM



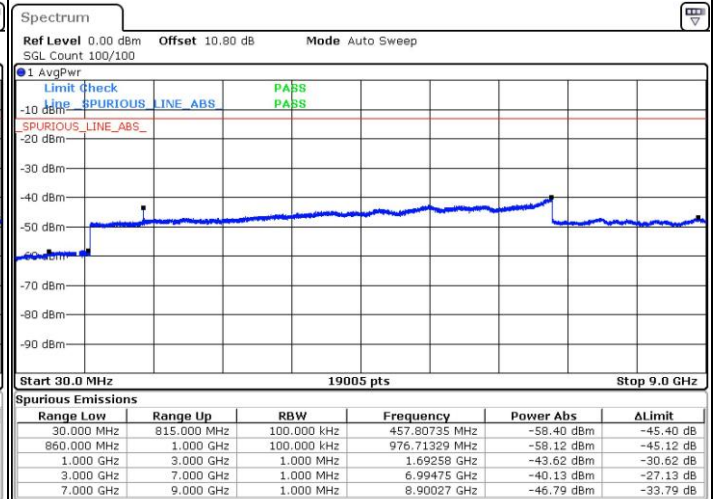
Date: 8.OCT.2016 09:24:44

## Highest Channel / QPSK



Date: 8.OCT.2016 09:33:08

## Highest Channel / 16QAM

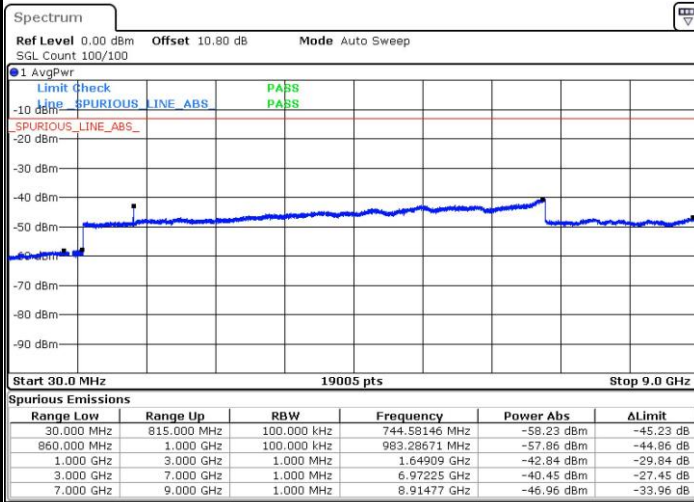


Date: 8.OCT.2016 09:34:06



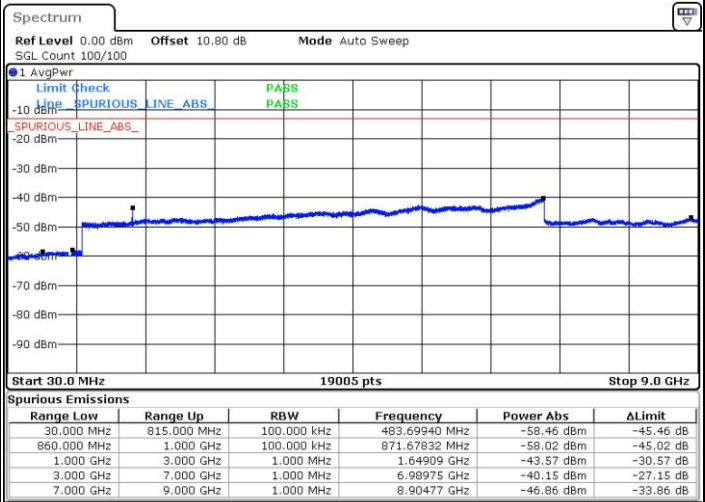
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



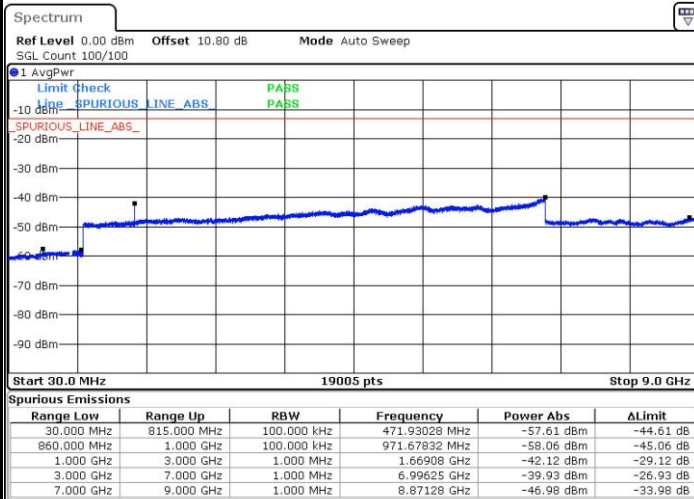
Date: 8.OCT.2016 09:42:30

## Lowest Channel / 16QAM



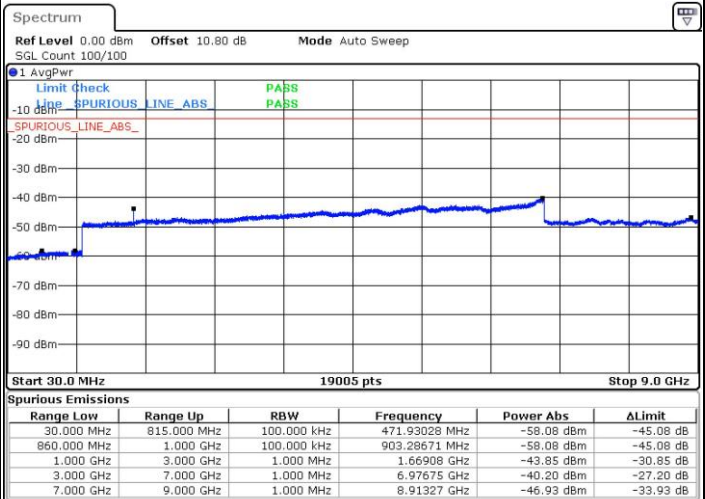
Date: 8.OCT.2016 09:43:29

## Middle Channel / QPSK



Date: 8.OCT.2016 09:45:14

## Middle Channel / 16QAM

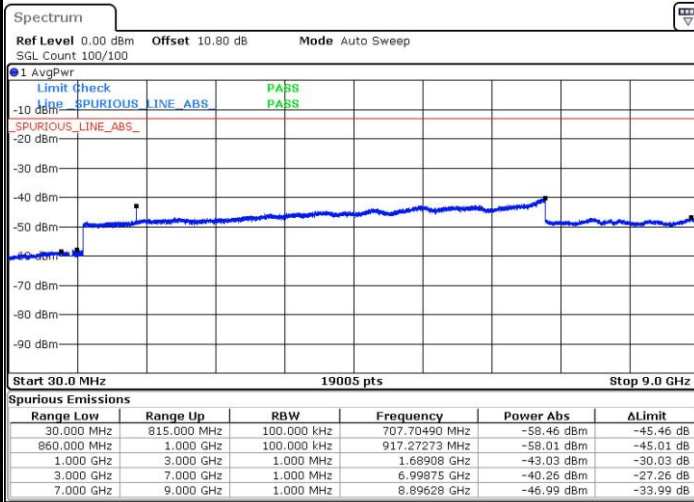


Date: 8.OCT.2016 09:46:13



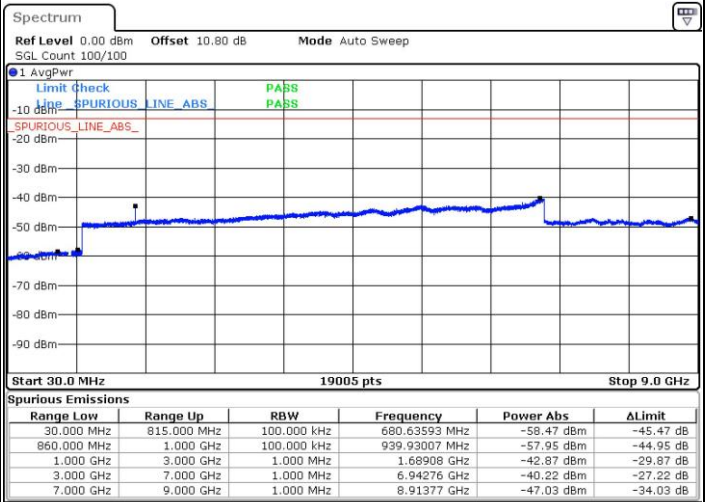
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 8.OCT.2016 09:54:36

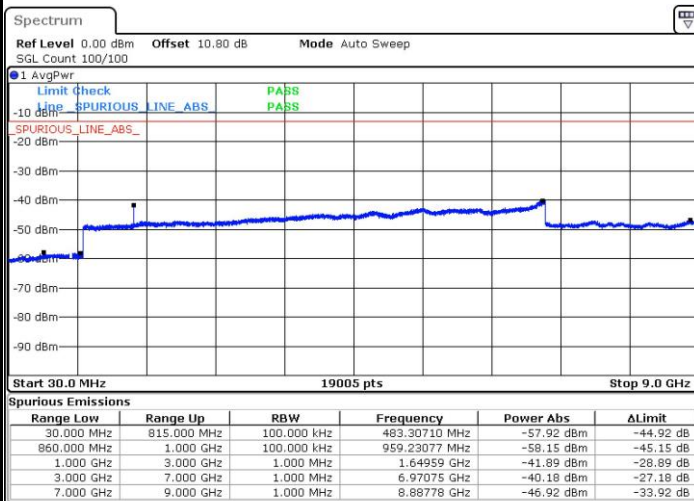
## Highest Channel / 16QAM



Date: 8.OCT.2016 09:55:35

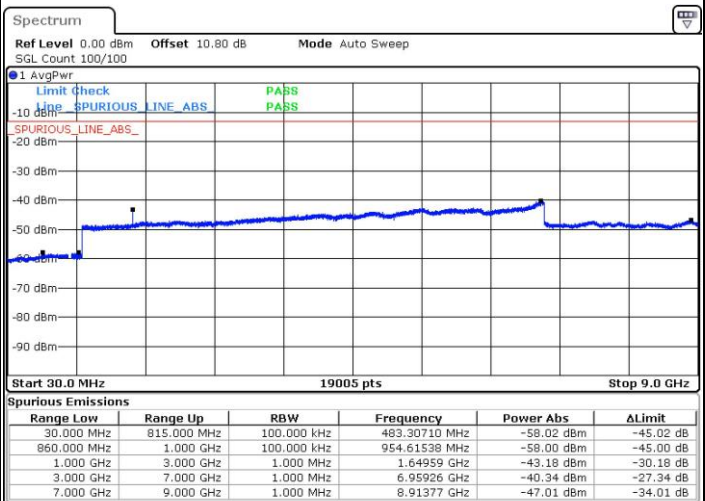
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 8.OCT.2016 10:03:59

## Lowest Channel / 16QAM

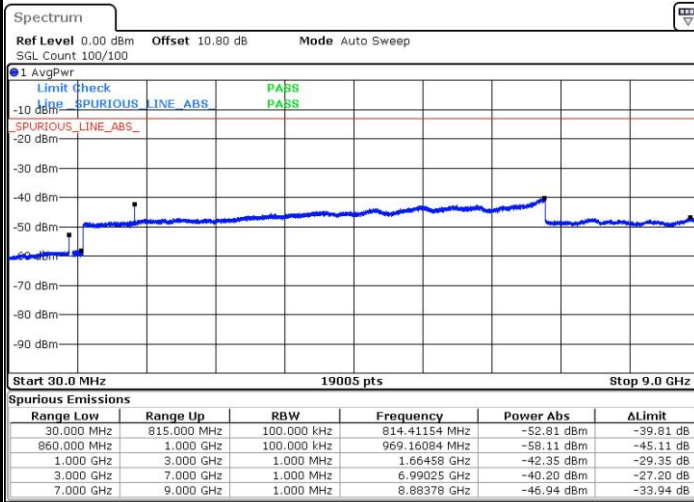


Date: 8.OCT.2016 10:04:57



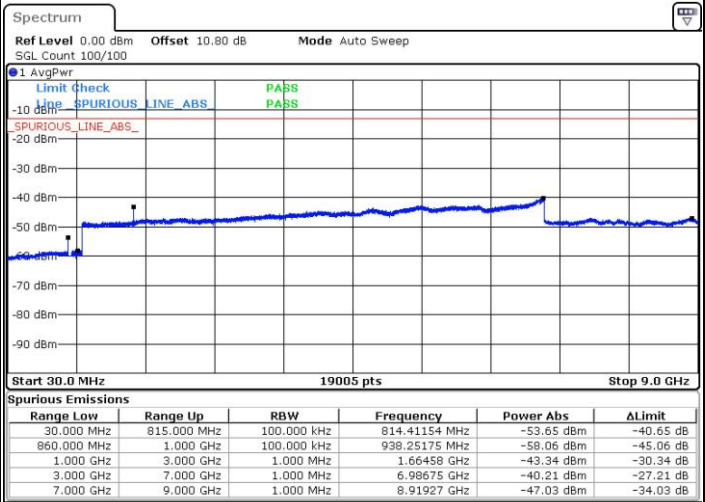
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



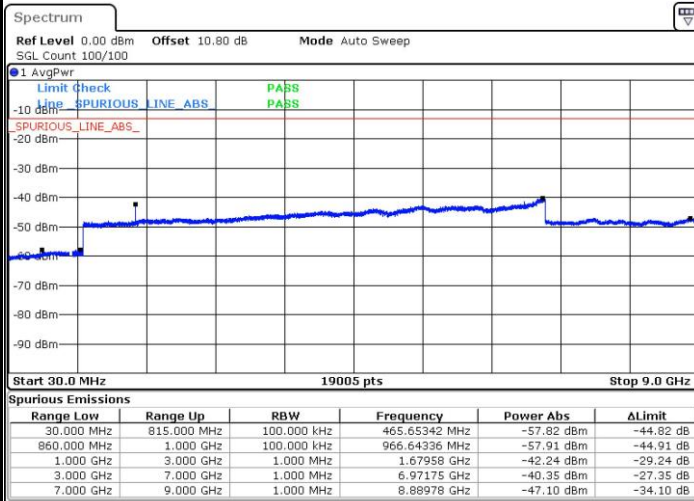
Date: 8.OCT.2016 10:06:43

## Middle Channel / 16QAM



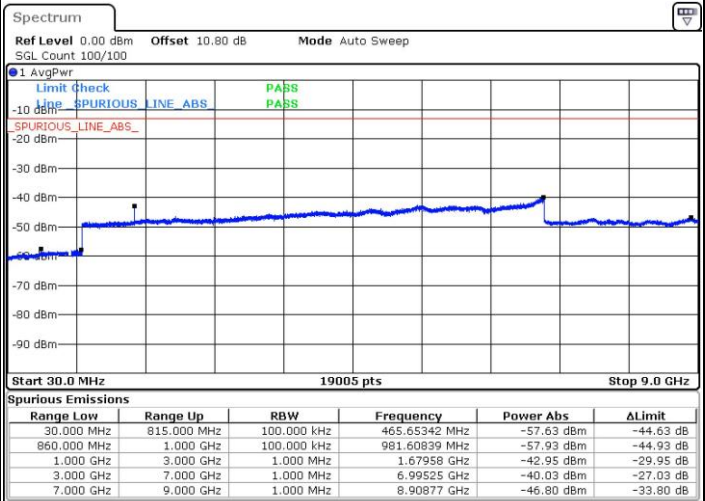
Date: 8.OCT.2016 10:07:42

## Highest Channel / QPSK



Date: 8.OCT.2016 10:16:05

## Highest Channel / 16QAM



Date: 8.OCT.2016 10:17:03

## Frequency Stability

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | 2.5ppm |
|                  |                   | Deviation (ppm)                    | Result |
| 50               | Normal Voltage    | 0.0018                             | PASS   |
| 40               | Normal Voltage    | 0.0001                             |        |
| 30               | Normal Voltage    | 0.0033                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0022                             |        |
| 0                | Normal Voltage    | 0.0008                             |        |
| -10              | Normal Voltage    | 0.0026                             |        |
| -20              | Normal Voltage    | 0.0010                             |        |
| -30              | Normal Voltage    | 0.0020                             |        |
| 20               | Maximum Voltage   | 0.0017                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0019                             |        |

**Note:**

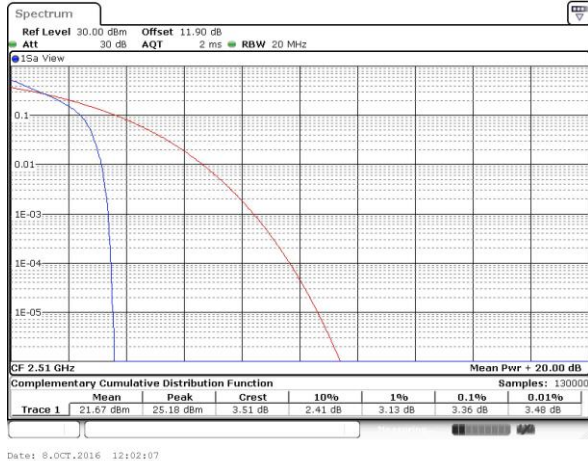
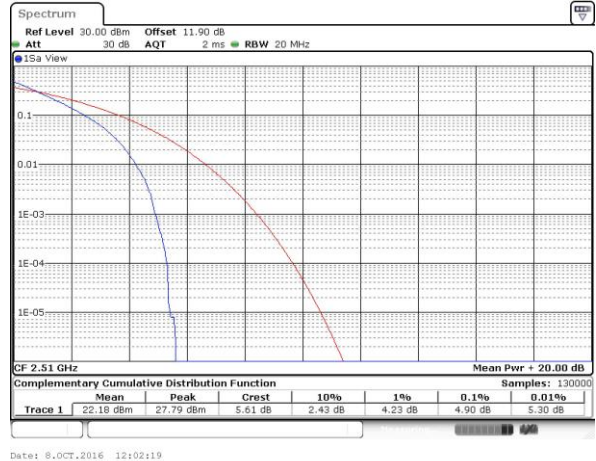
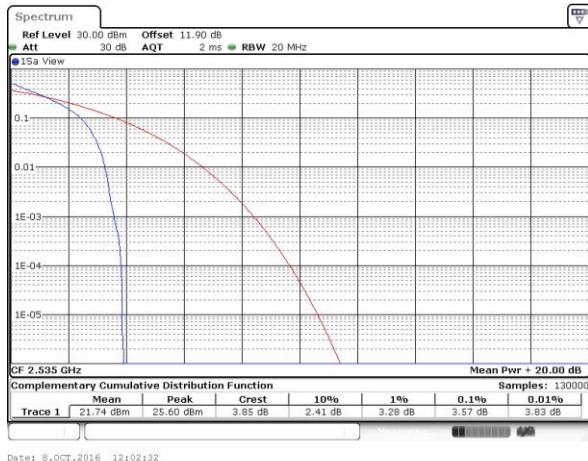
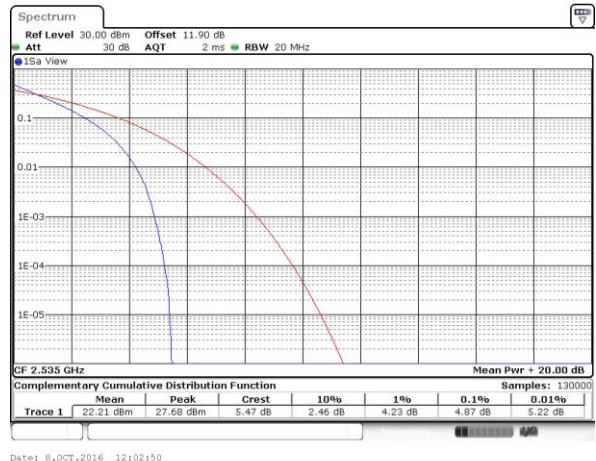
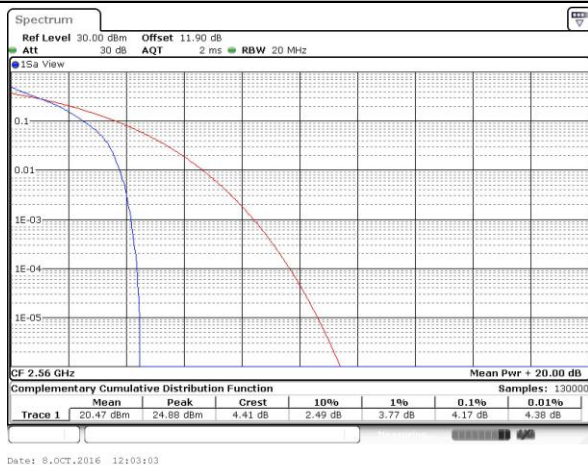
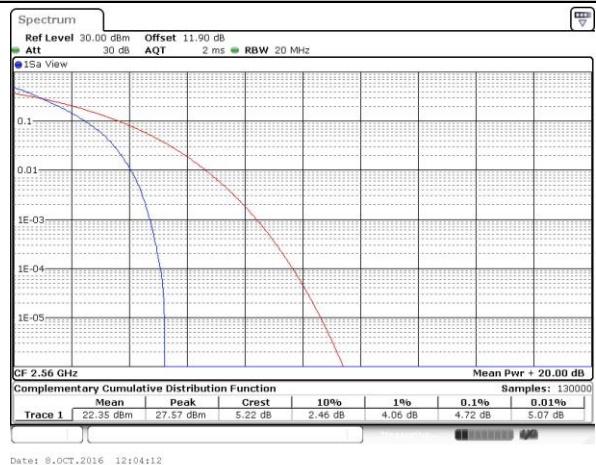
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

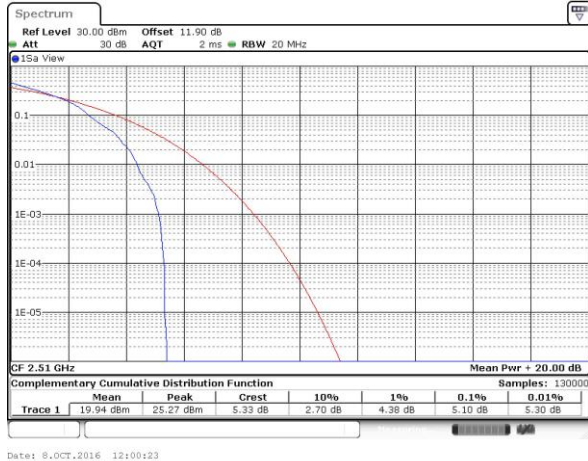
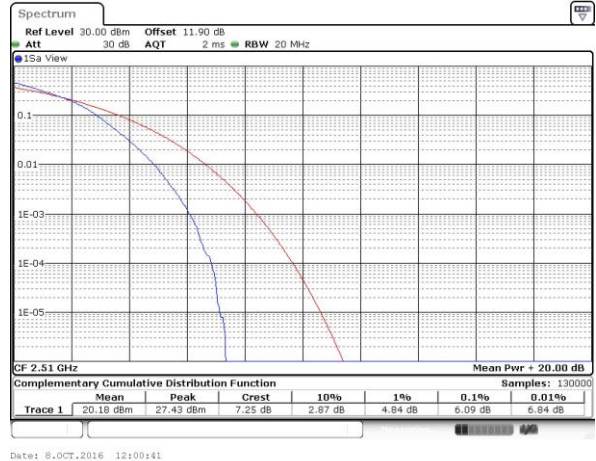
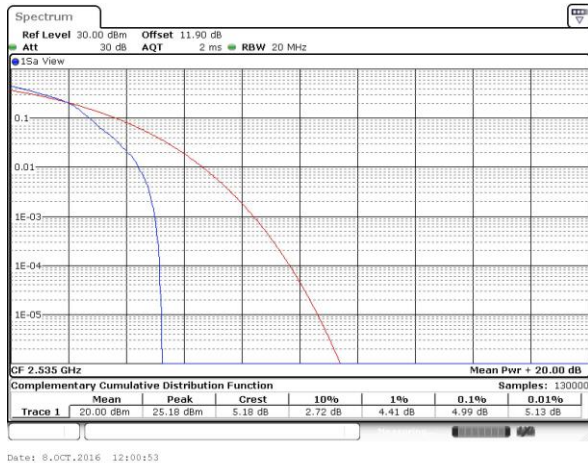
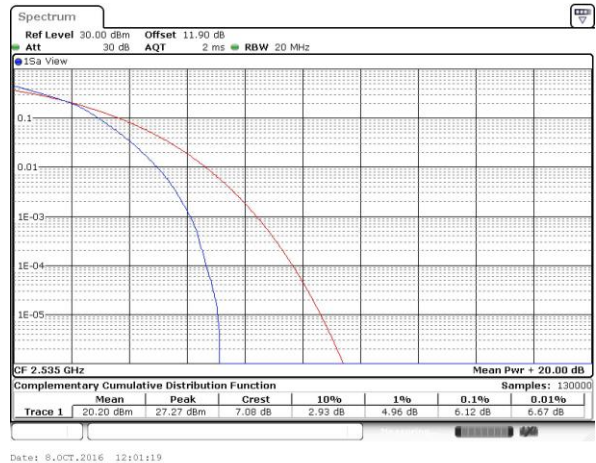
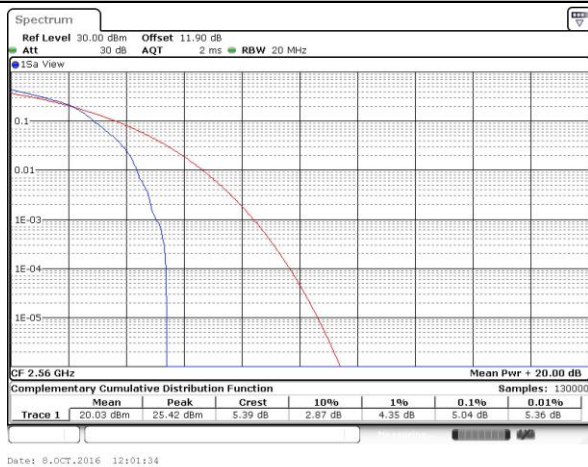


## LTE Band 7

### 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  | 3.36               | 4.9     | 5.1   | 6.09    | PASS        |
| Middle CH  | 3.57               | 4.87    | 4.99  | 6.12    |             |
| Highest CH | 4.17               | 4.72    | 5.04  | 6.09    |             |

**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**



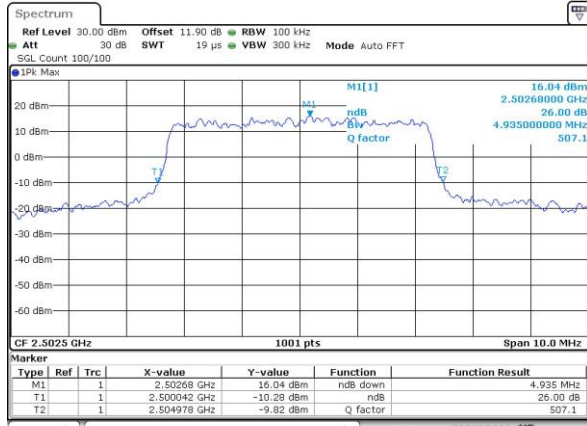

## 26dB Bandwidth

| 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  | -                         | -     | -    | -     | 4.935 | 5.005 | 9.85  | 9.93  | 14.446 | 14.416 | 20.14  | 20.38 |
| Middle CH  | -                         | -     | -    | -     | 4.935 | 4.965 | 10.11 | 9.95  | 14.296 | 14.356 | 20.539 | 20.42 |
| Highest CH | -                         | -     | -    | -     | 5.035 | 4.965 | 9.87  | 9.71  | 14.715 | 14.655 | 20.42  | 20.06 |



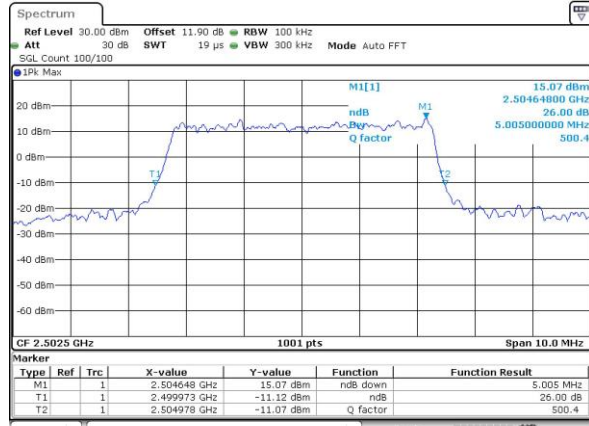
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



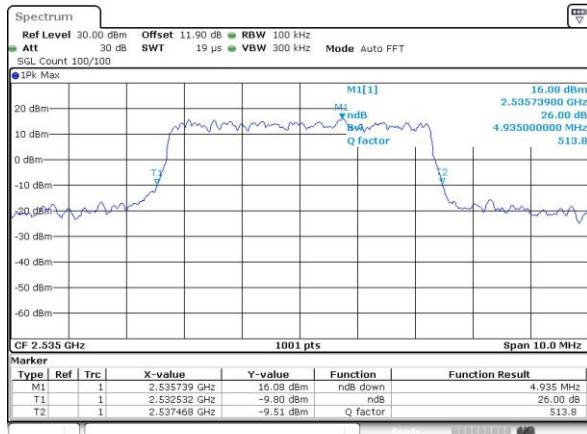
Date: 8.OCT.2016 10:50:17

## Lowest Channel / 5MHz / 16QAM



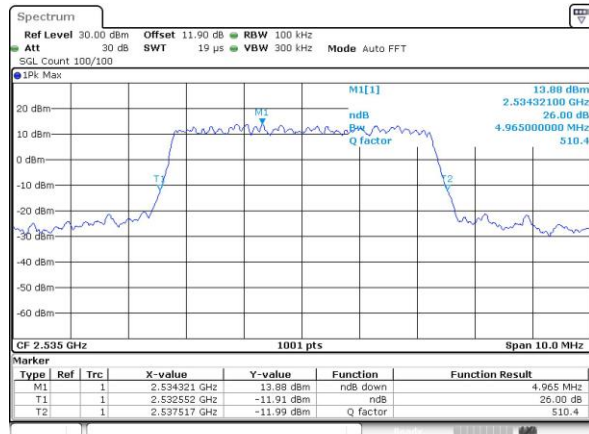
Date: 8.OCT.2016 10:50:29

## Middle Channel / 5MHz / QPSK



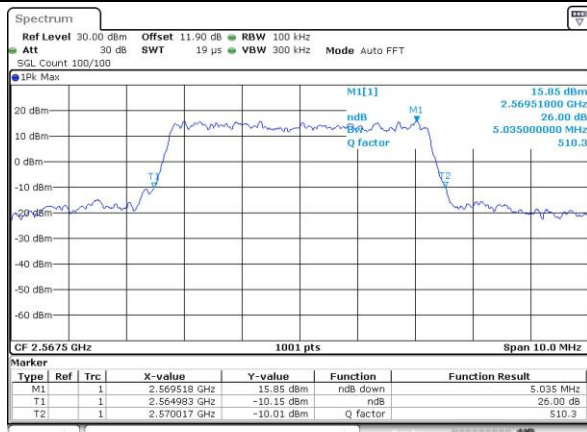
Date: 8.OCT.2016 10:57:40

## Middle Channel / 5MHz / 16QAM



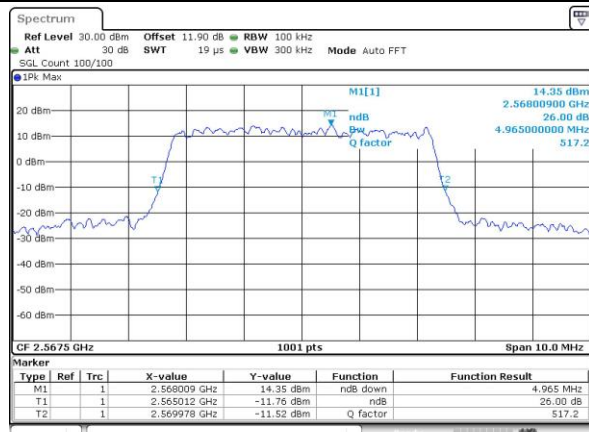
Date: 8.OCT.2016 10:57:51

## Highest Channel / 5MHz / QPSK



Date: 8.OCT.2016 11:00:23

## Highest Channel / 5MHz / 16QAM

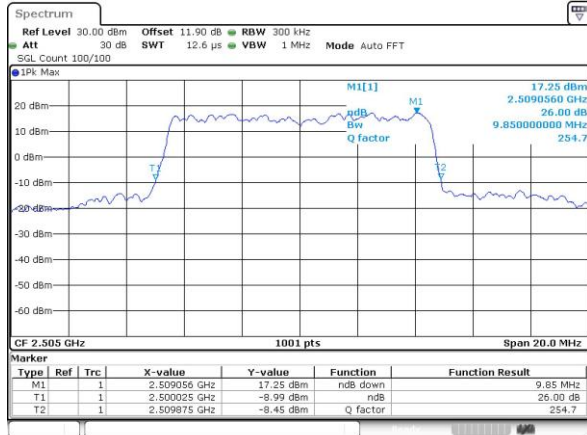


Date: 8.OCT.2016 11:00:34



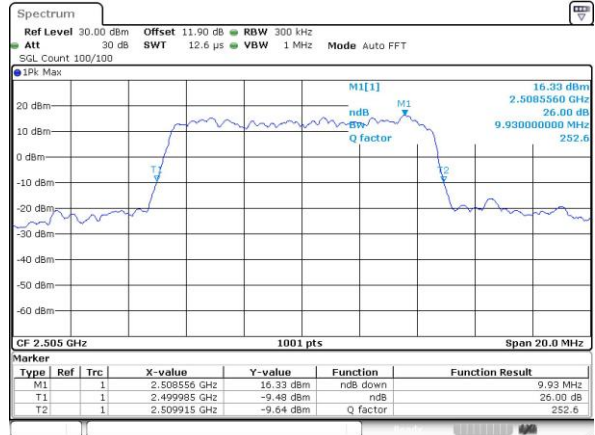
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



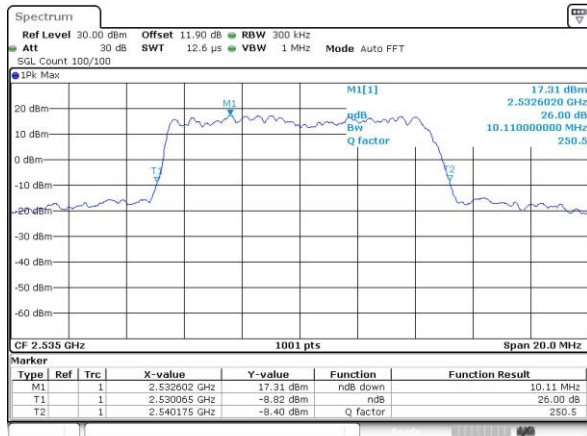
Date: 8.OCT.2016 11:07:46

## Lowest Channel / 10MHz / 16QAM



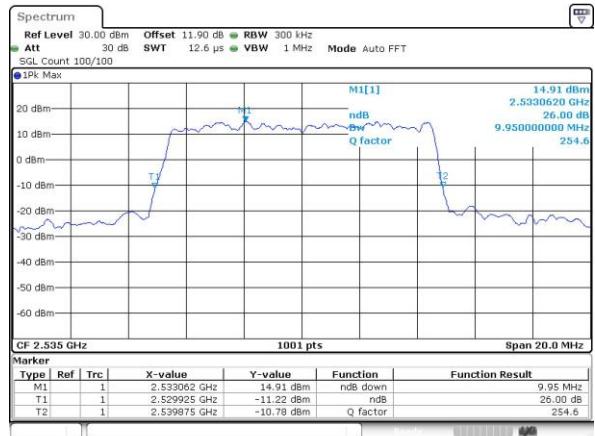
Date: 8.OCT.2016 11:07:57

## Middle Channel / 10MHz / QPSK



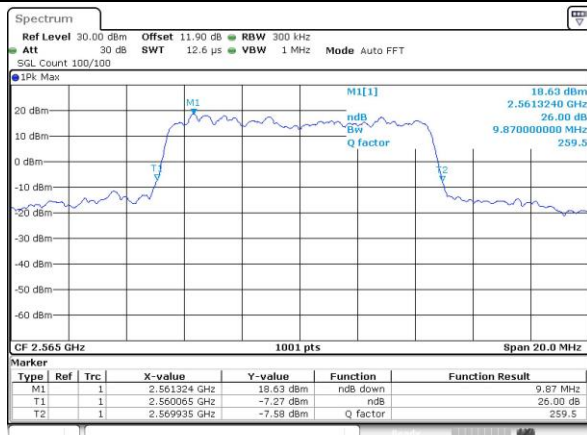
Date: 8.OCT.2016 11:15:08

## Middle Channel / 10MHz / 16QAM



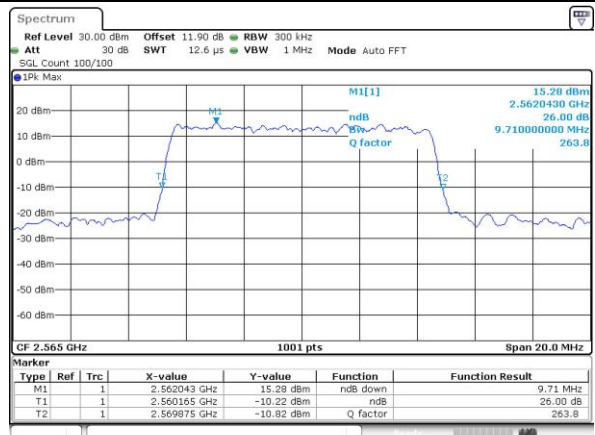
Date: 8.OCT.2016 11:15:20

## Highest Channel / 10MHz / QPSK



Date: 8.OCT.2016 11:17:51

## Highest Channel / 10MHz / 16QAM

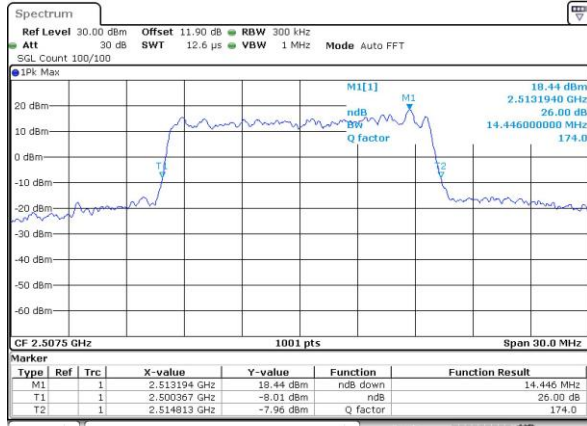


Date: 8.OCT.2016 11:18:02



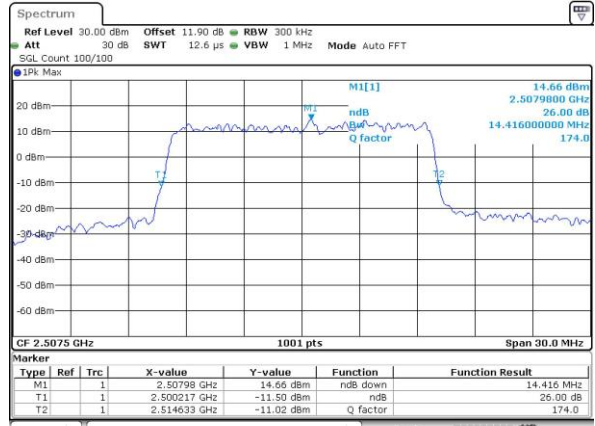
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



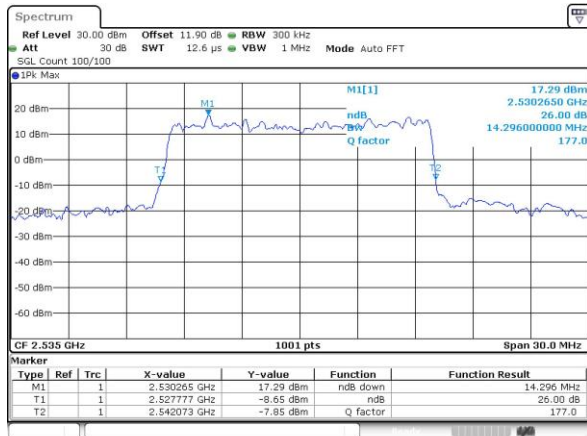
Date: 8.OCT.2016 11:25:14

## Lowest Channel / 15MHz / 16QAM



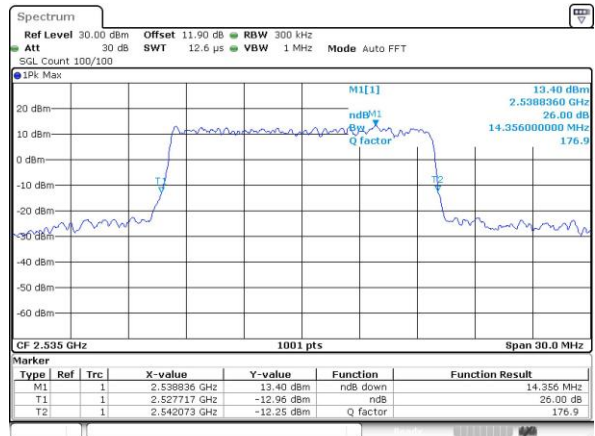
Date: 8.OCT.2016 11:25:26

## Middle Channel / 15MHz / QPSK



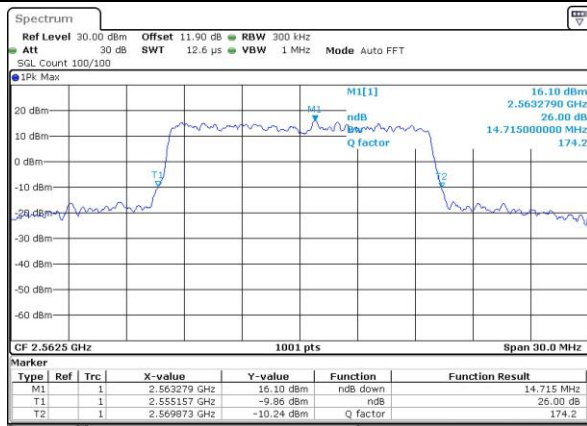
Date: 8.OCT.2016 11:32:37

## Middle Channel / 15MHz / 16QAM



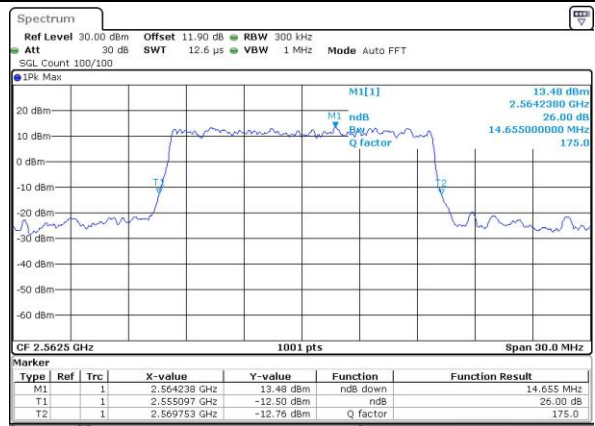
Date: 8.OCT.2016 11:32:48

## Highest Channel / 15MHz / QPSK



Date: 8.OCT.2016 11:35:20

## Highest Channel / 15MHz / 16QAM

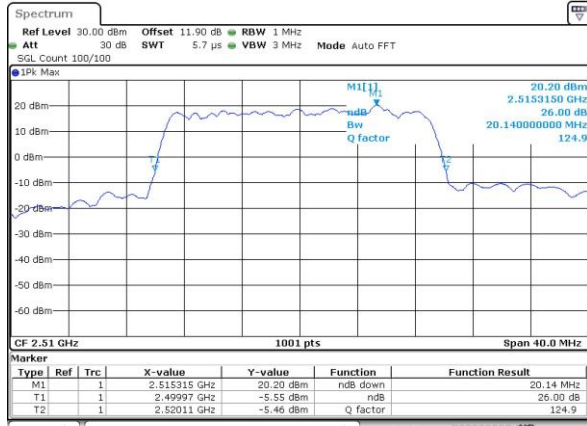


Date: 8.OCT.2016 11:35:31

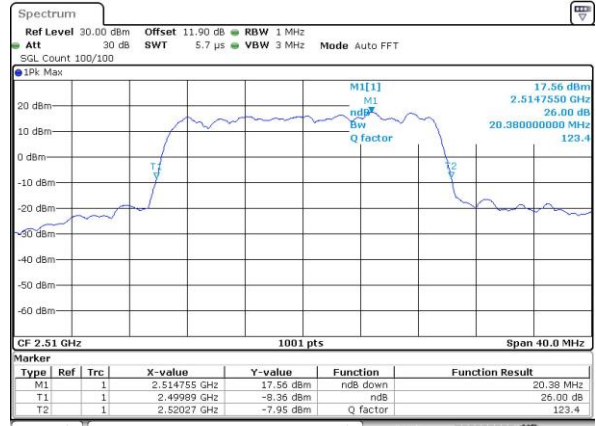


## LTE Band 7

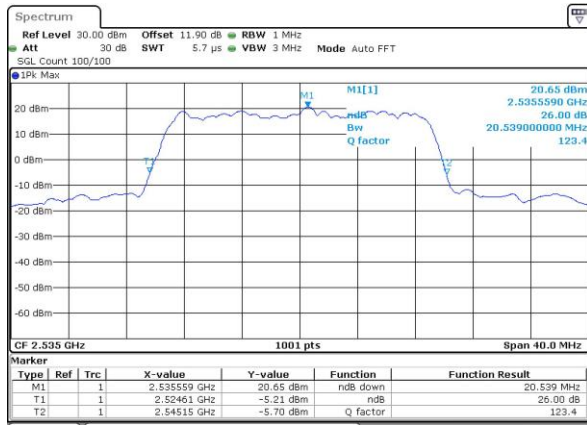
## Lowest Channel / 20MHz / QPSK



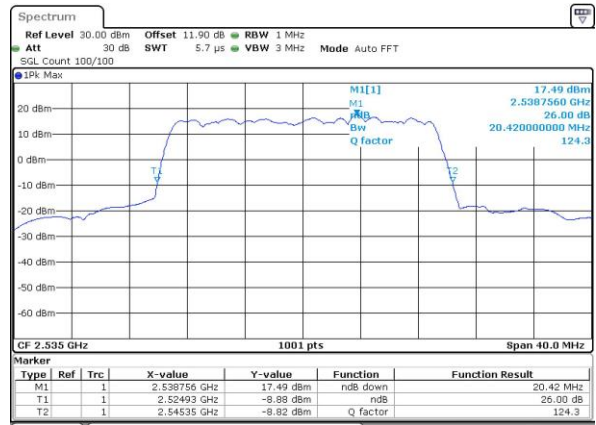
## Lowest Channel / 20MHz / 16QAM



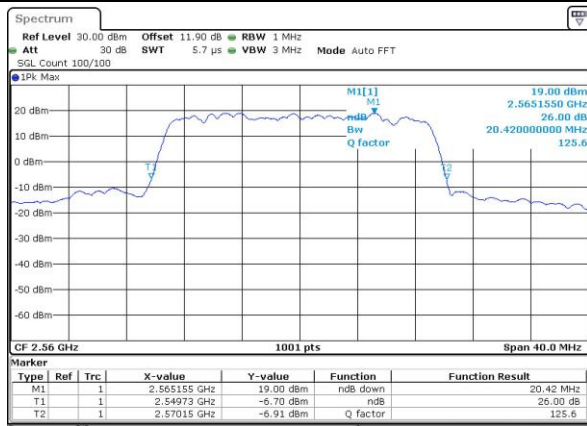
## Middle Channel / 20MHz / QPSK



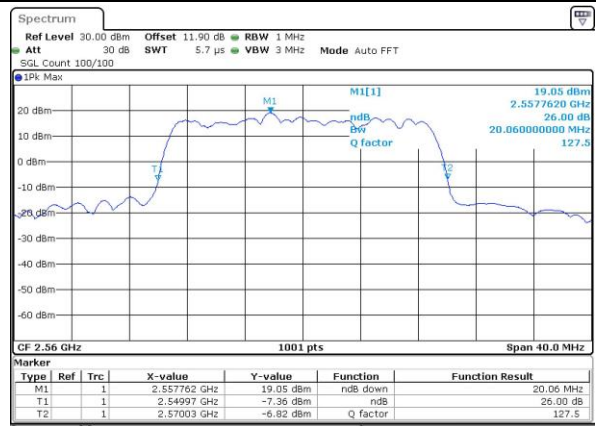
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM



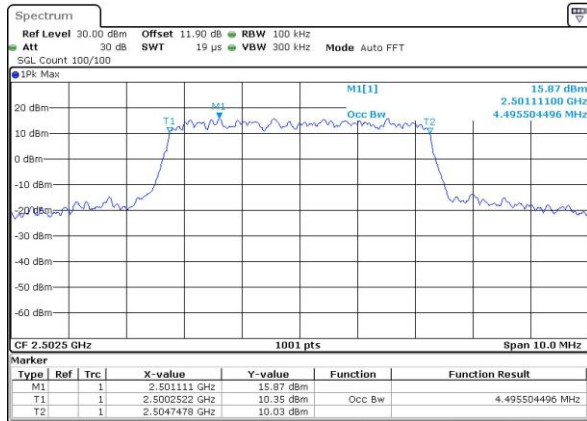
**Occupied Bandwidth**

| 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  | -                        | -     | -    | -     | 4.5  | 4.51  | 9.03  | 9.05  | 13.4  | 13.49 | 18.5  | 18.3  |
| Middle CH  | -                        | -     | -    | -     | 4.5  | 4.51  | 9.07  | 9.01  | 13.49 | 13.49 | 18.46 | 18.3  |
| Highest CH | -                        | -     | -    | -     | 4.51 | 4.51  | 9.09  | 9.03  | 13.49 | 13.4  | 18.34 | 18.3  |



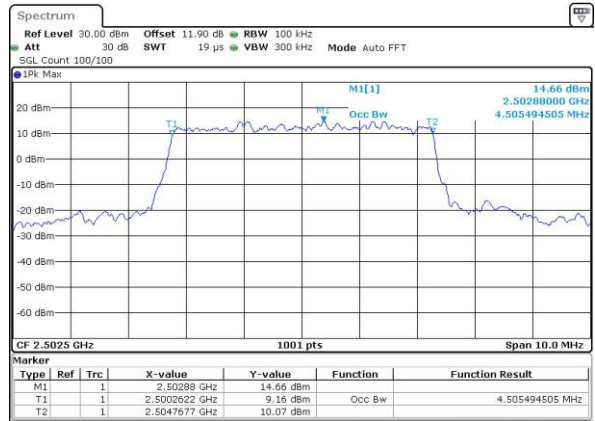
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



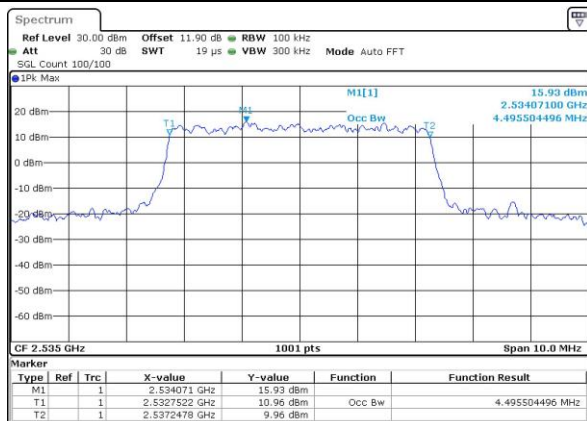
Date: 8.OCT.2016 10:49:53

## Lowest Channel / 5MHz / 16QAM



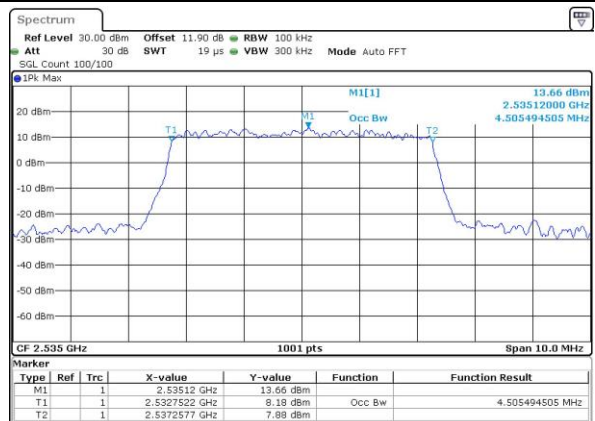
Date: 8.OCT.2016 10:50:05

## Middle Channel / 5MHz / QPSK



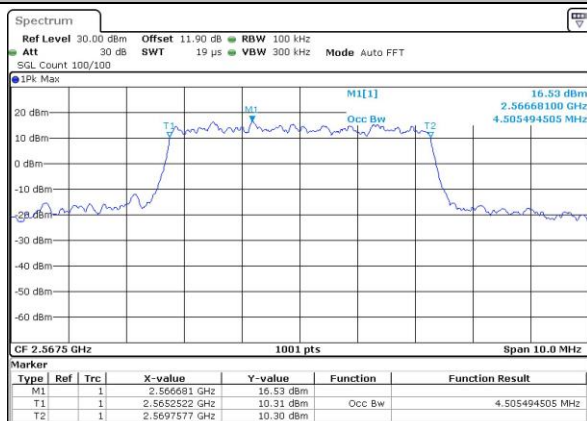
Date: 8.OCT.2016 10:57:16

## Middle Channel / 5MHz / 16QAM



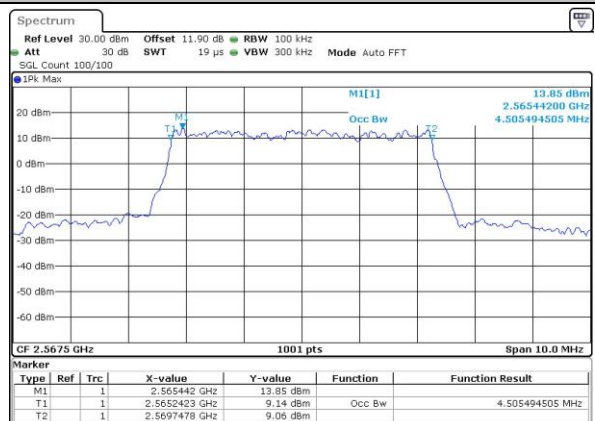
Date: 8.OCT.2016 10:57:28

## Highest Channel / 5MHz / QPSK



Date: 8.OCT.2016 10:59:59

## Highest Channel / 5MHz / 16QAM



Date: 8.OCT.2016 11:00:11