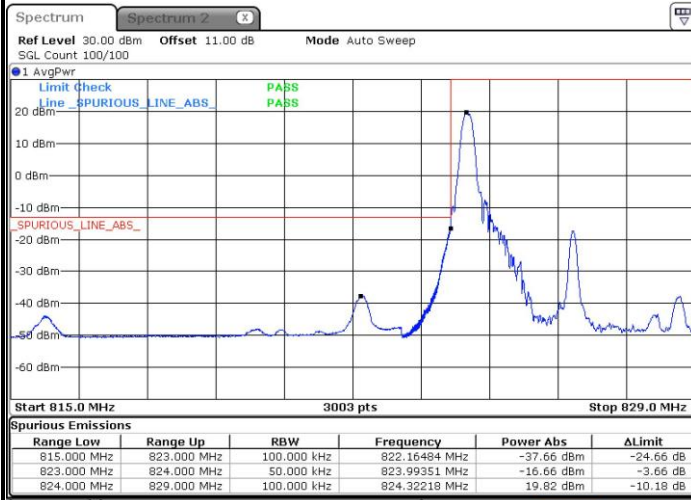


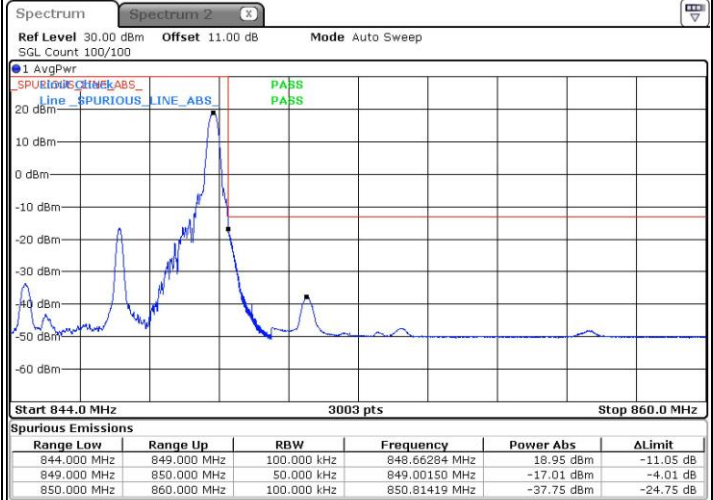


## LTE Band 5 / 5MHz / 16QAM

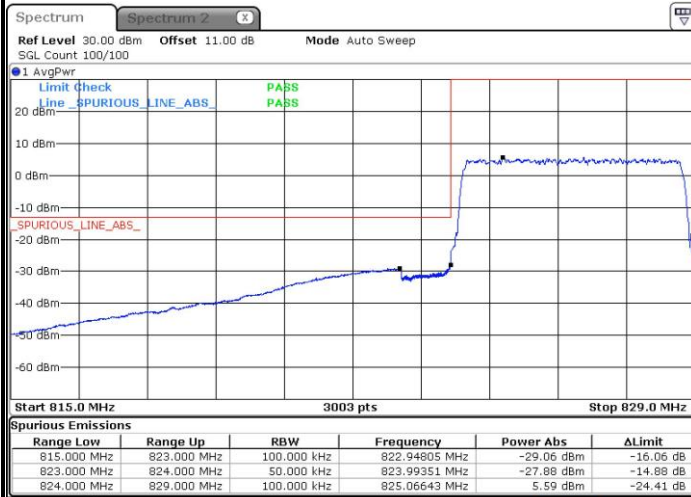
## Lowest Band Edge / 1RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



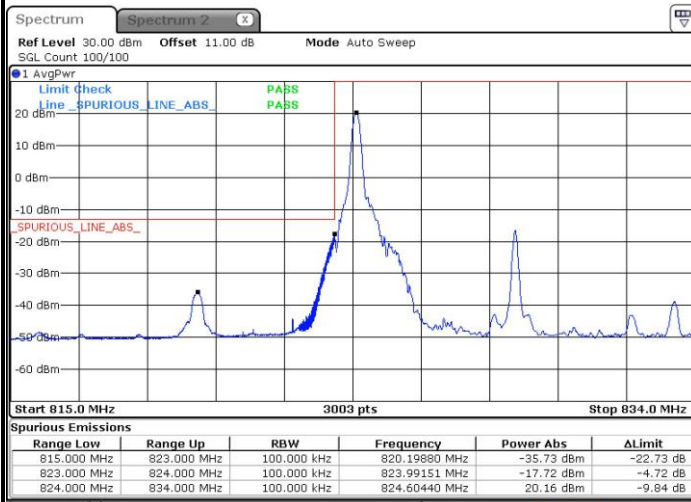
## Highest Band Edge / Full RB



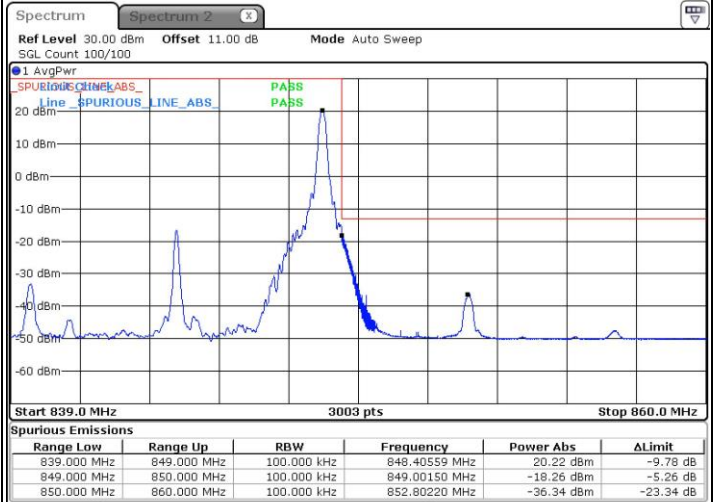


## LTE Band 5 / 10MHz / QPSK

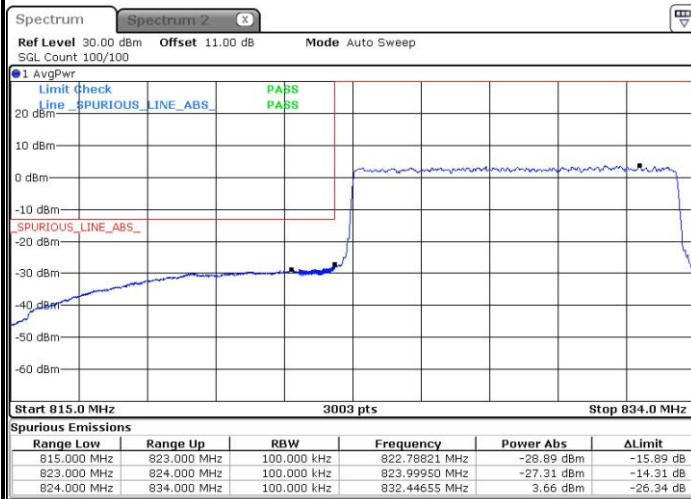
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



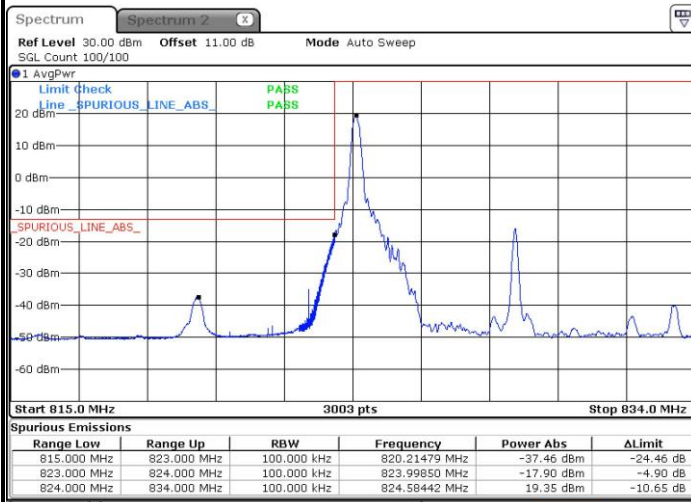
## Highest Band Edge / Full RB



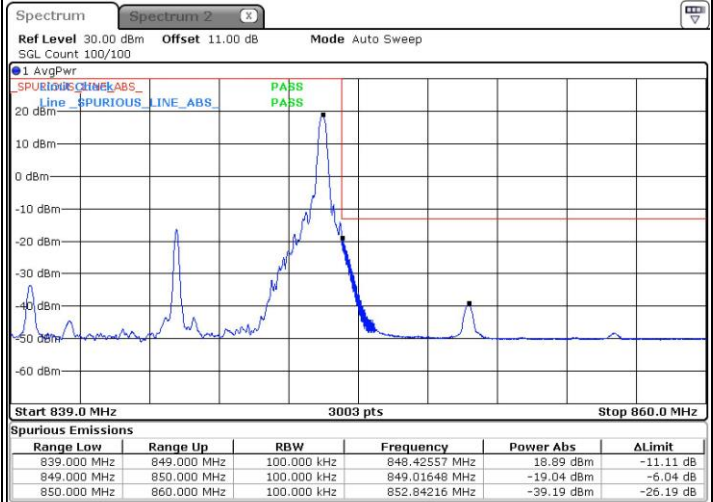


## LTE Band 5 / 10MHz / 16QAM

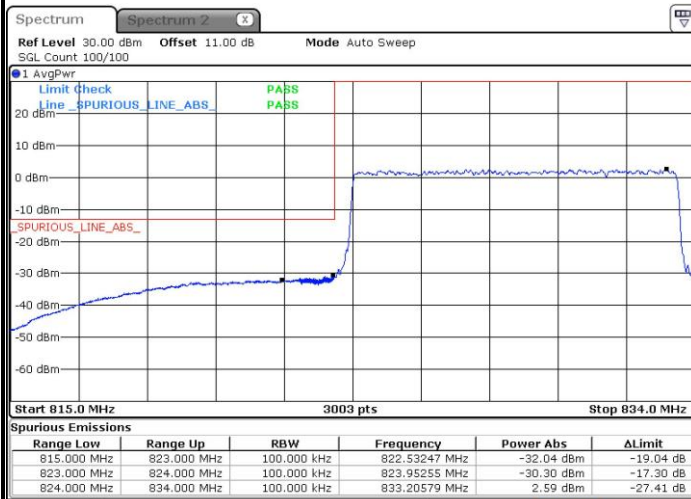
## Lowest Band Edge / 1 RB



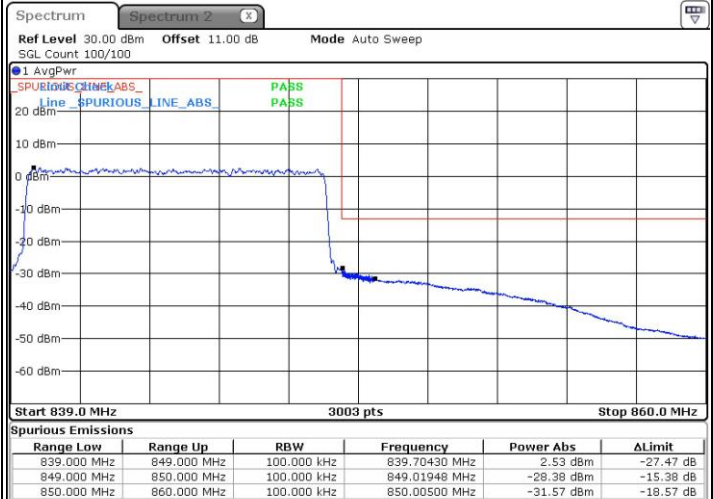
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

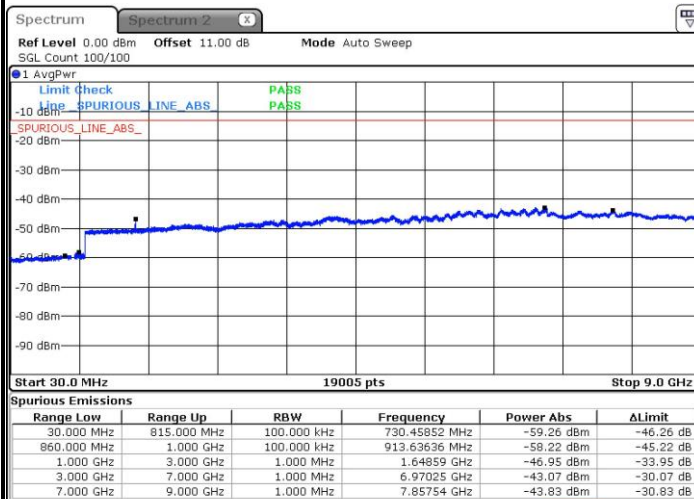




# Conducted Spurious Emission

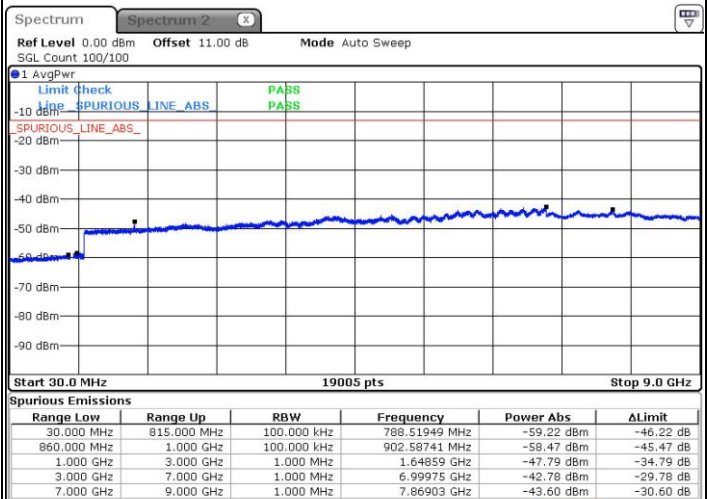
## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK



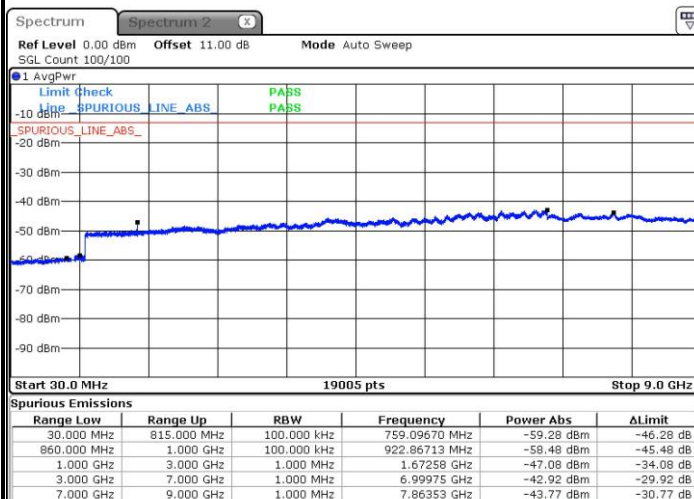
Date: 12.OCT.2016 22:56:15

### Lowest Channel / 16QAM



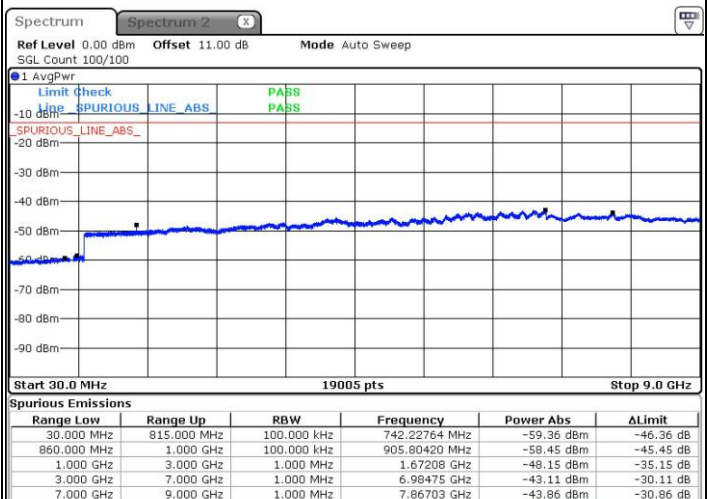
Date: 12.OCT.2016 22:57:10

### Middle Channel / QPSK



Date: 12.OCT.2016 22:58:46

### Middle Channel / 16QAM

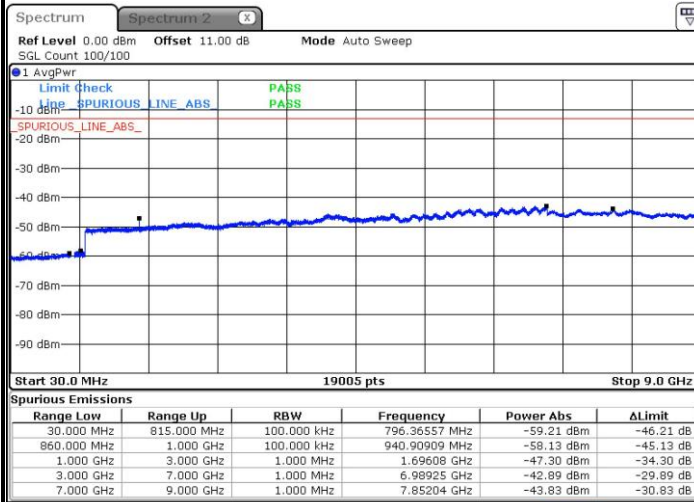


Date: 12.OCT.2016 22:59:40



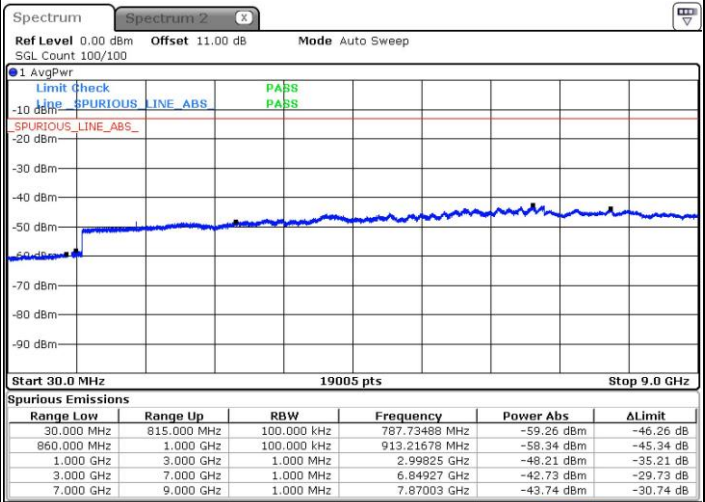
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 12.OCT.2016 23:07:52

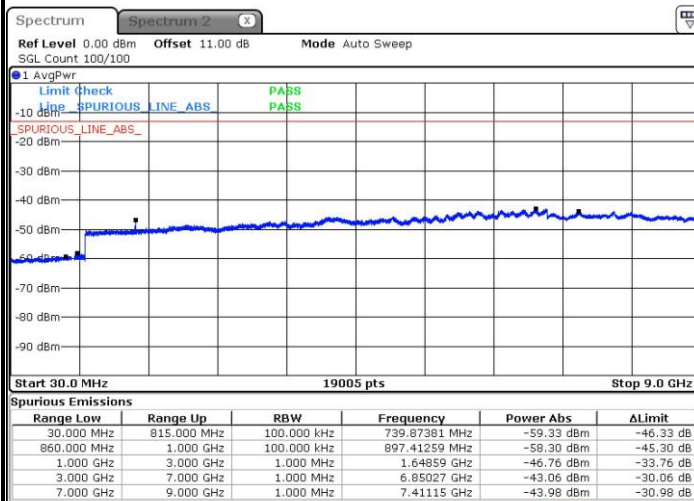
## Highest Channel / 16QAM



Date: 12.OCT.2016 23:08:46

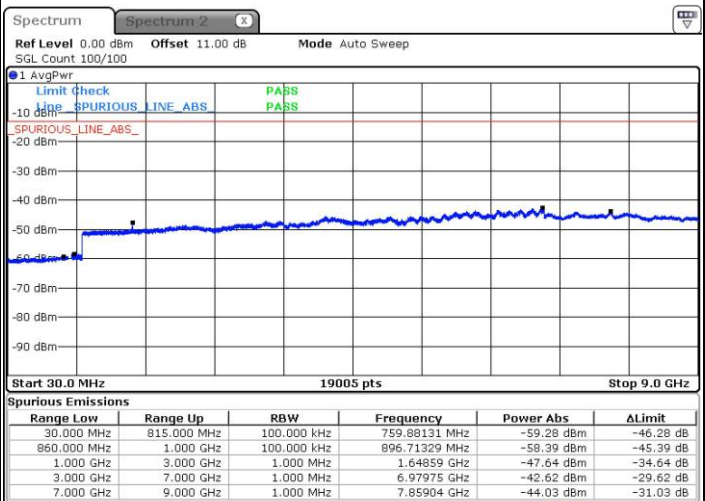
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 12.OCT.2016 21:17:39

## Lowest Channel / 16QAM

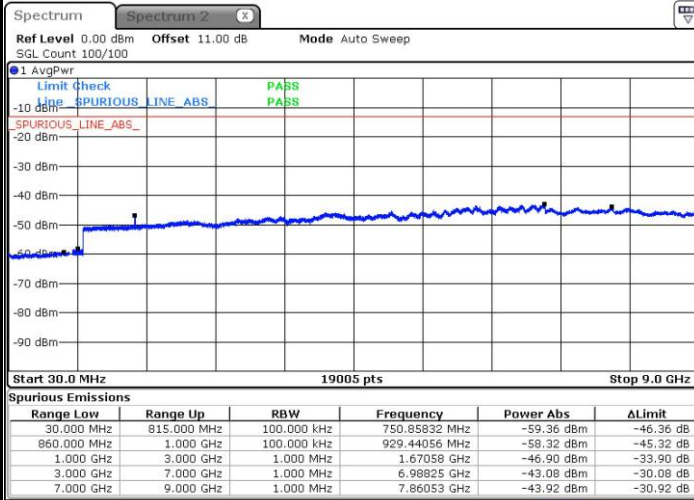


Date: 12.OCT.2016 21:18:34



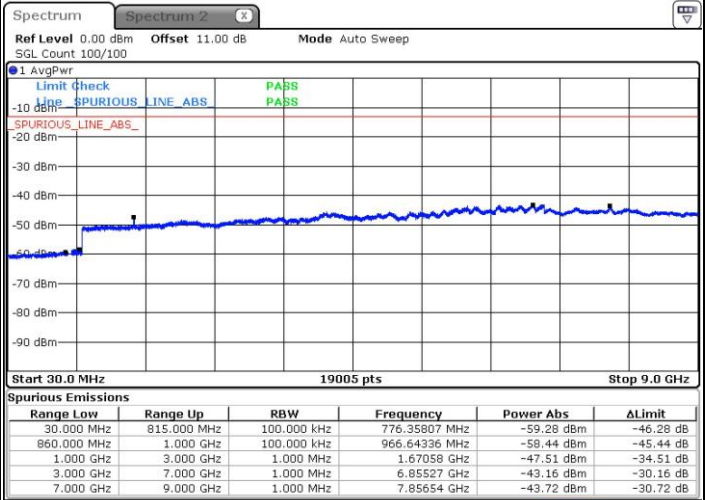
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



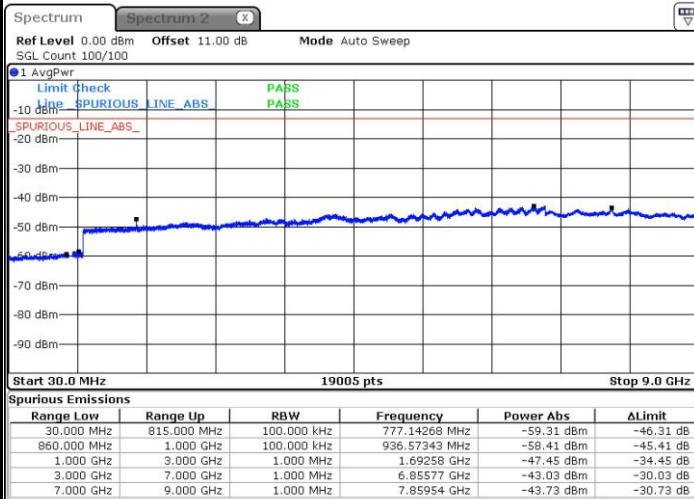
Date: 12.OCT.2016 21:20:10

## Middle Channel / 16QAM



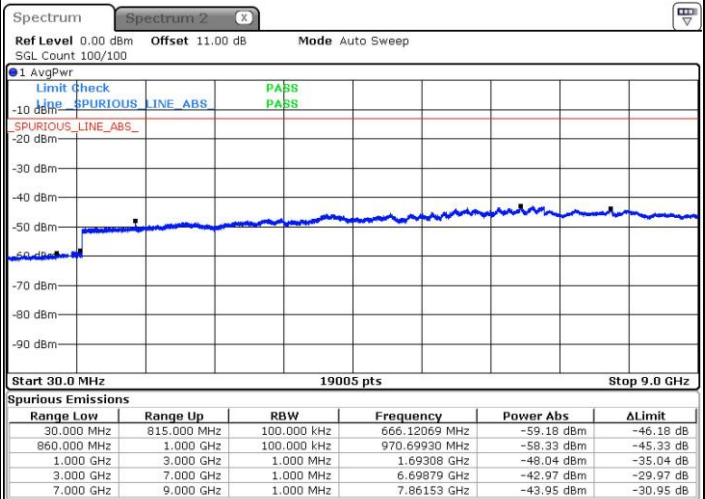
Date: 12.OCT.2016 21:21:04

## Highest Channel / QPSK



Date: 12.OCT.2016 21:29:17

## Highest Channel / 16QAM

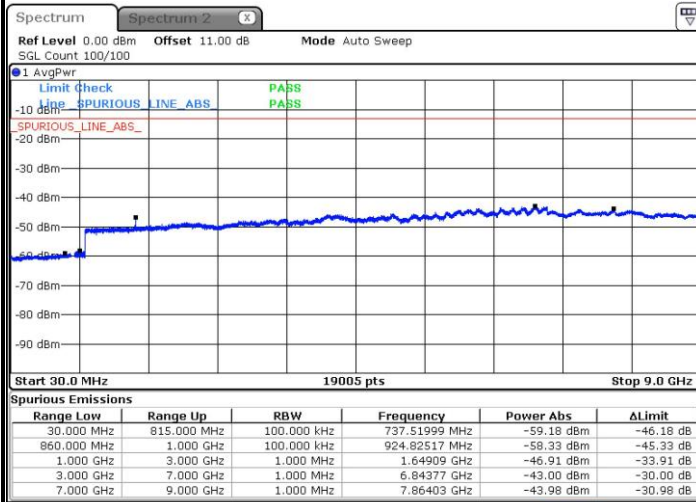


Date: 12.OCT.2016 21:30:12



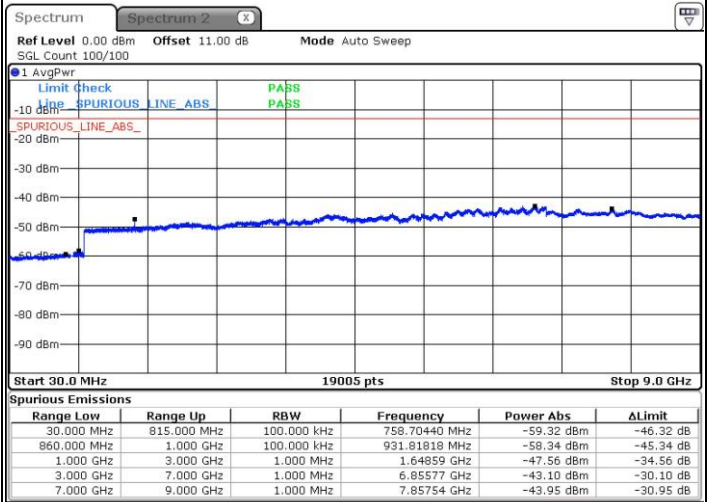
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



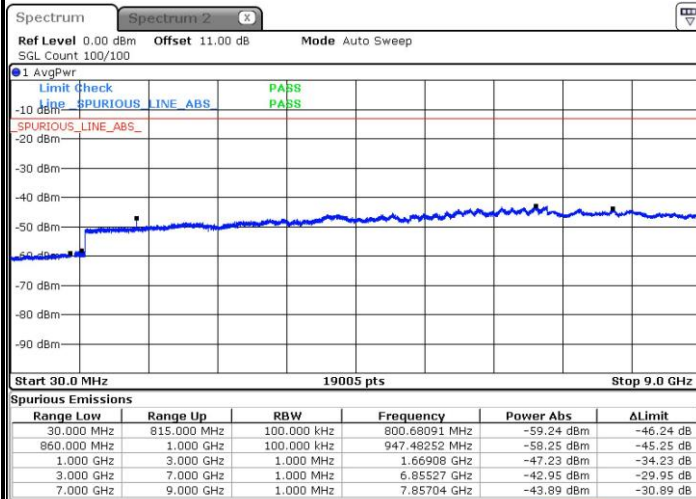
Date: 12.OCT.2016 21:42:13

## Lowest Channel / 16QAM



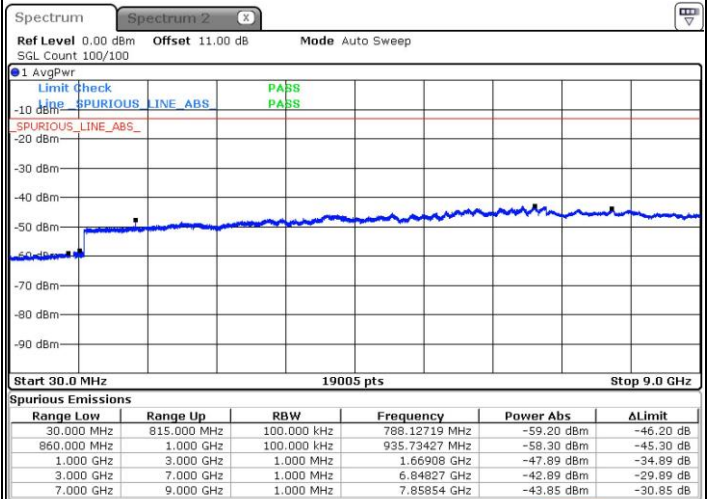
Date: 12.OCT.2016 21:43:07

## Middle Channel / QPSK



Date: 12.OCT.2016 21:44:43

## Middle Channel / 16QAM

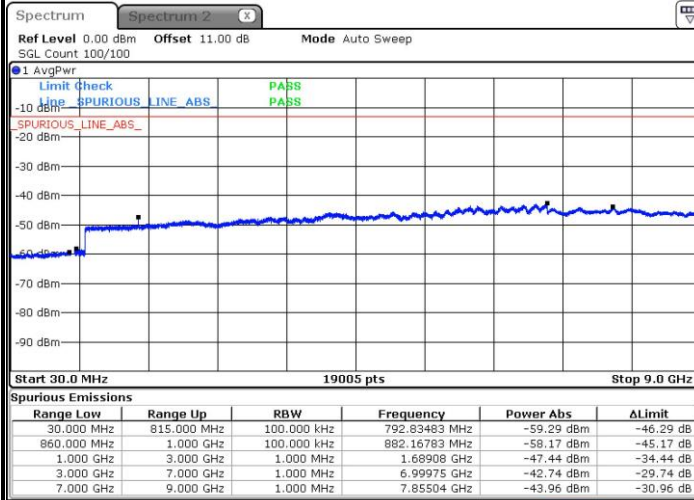


Date: 12.OCT.2016 21:45:38



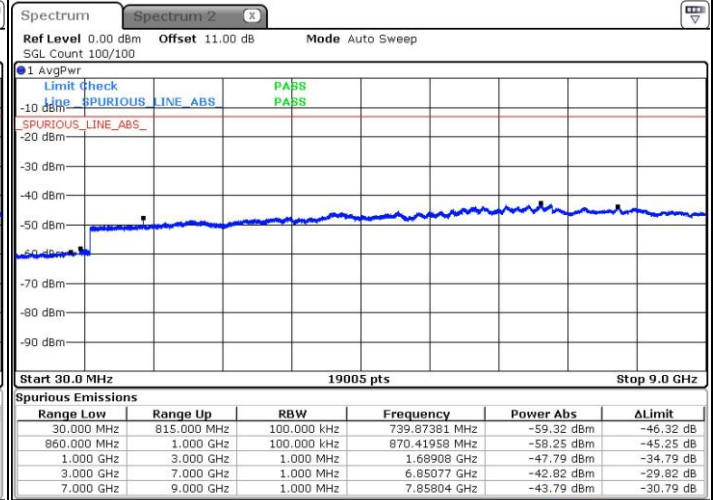
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 12.OCT.2016 21:53:50

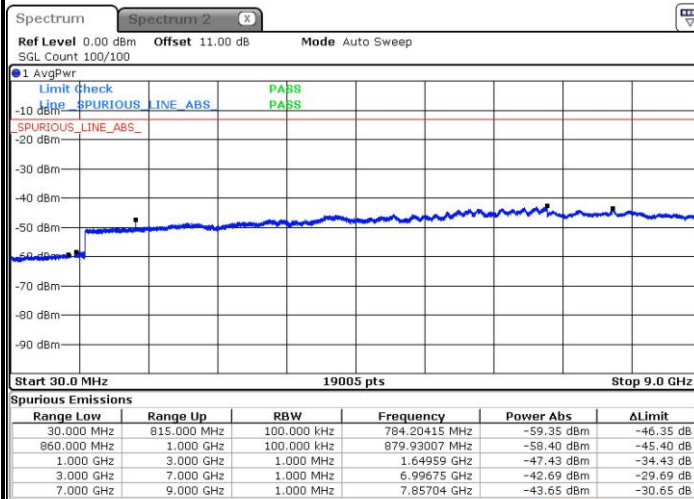
## Highest Channel / 16QAM



Date: 12.OCT.2016 21:54:45

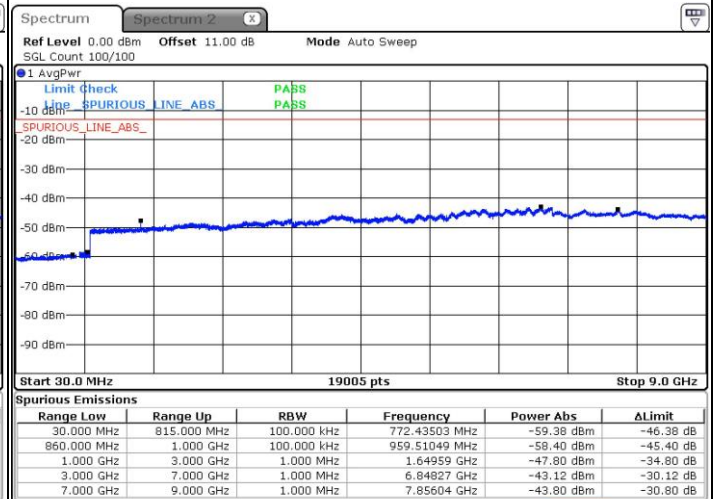
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 12.OCT.2016 22:02:58

## Lowest Channel / 16QAM

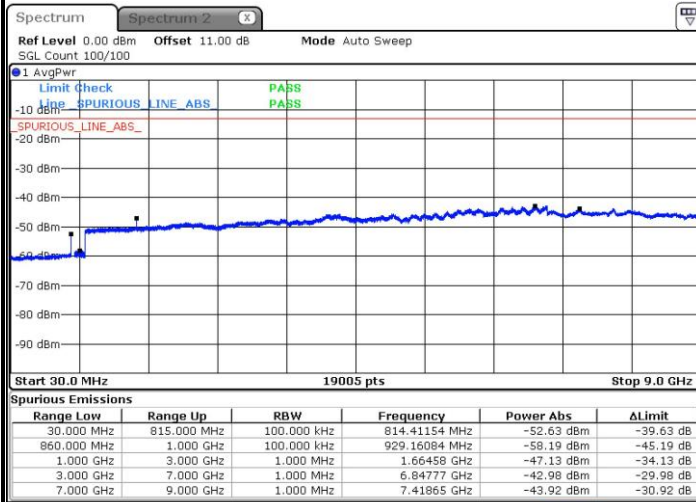


Date: 12.OCT.2016 22:03:53



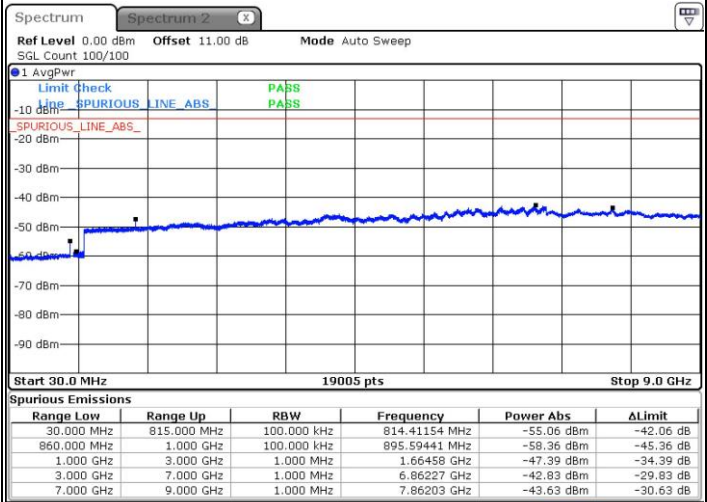
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



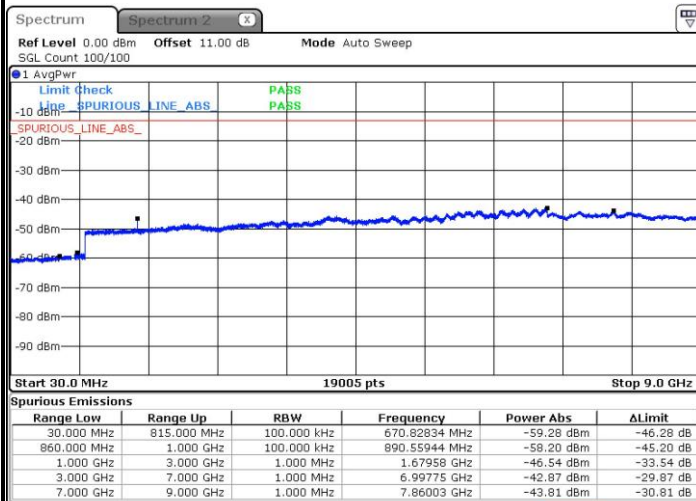
Date: 12.OCT.2016 22:05:29

## Middle Channel / 16QAM



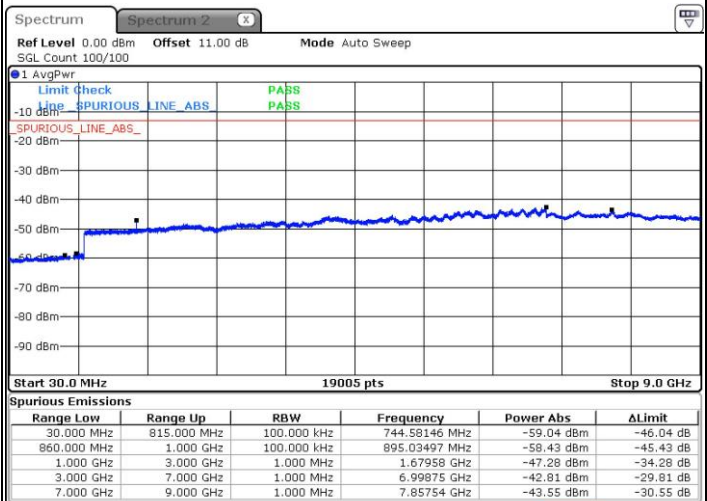
Date: 12.OCT.2016 22:06:23

## Highest Channel / QPSK



Date: 12.OCT.2016 22:14:36

## Highest Channel / 16QAM



Date: 12.OCT.2016 22:15:31

## 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    | 0.0008                             | PASS   |
| 40               | Normal Voltage    | 0.0012                             |        |
| 30               | Normal Voltage    | 0.0017                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0006                             |        |
| 0                | Normal Voltage    | 0.0035                             |        |
| -10              | Normal Voltage    | 0.0011                             |        |
| -20              | Normal Voltage    | 0.0103                             |        |
| -30              | Normal Voltage    | 0.0093                             |        |
| 20               | Maximum Voltage   | 0.0074                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0006                             |        |

**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

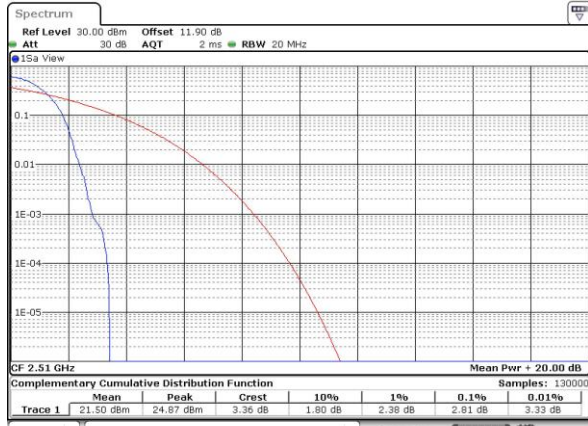
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 2.81               | 4.58    | 3.42  | 5.48    | PASS        |
| Middle CH  | 3.1                | 4.72    | 4.32  | 5.74    |             |
| Highest CH | 2.67               | 4.41    | 3.48  | 5.54    |             |

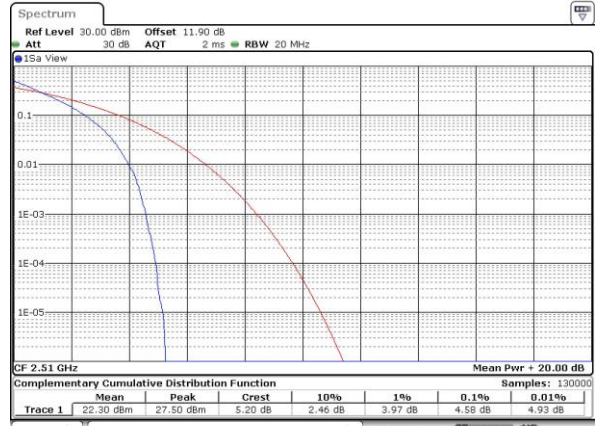


## LTE Band 7 / 20MHz / QPSK

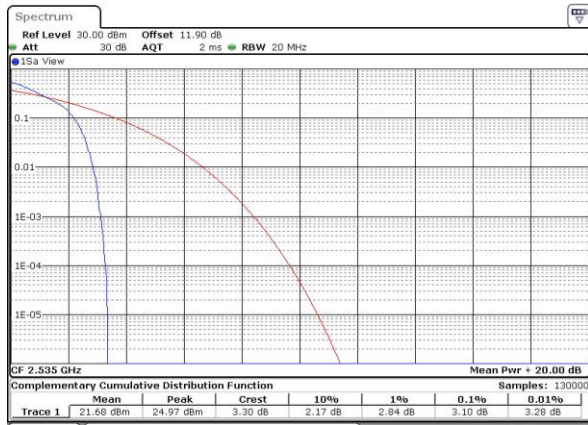
## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



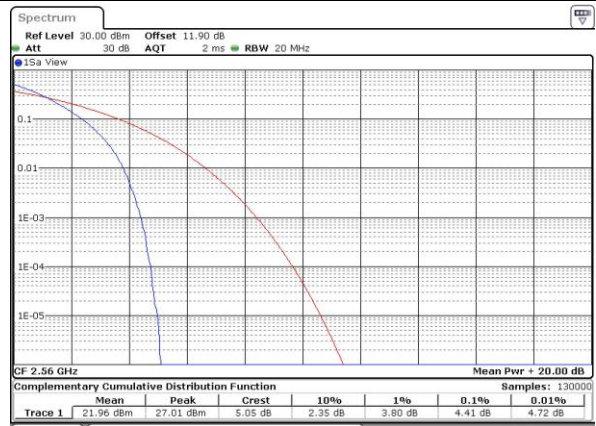
## Middle Channel / Full RB

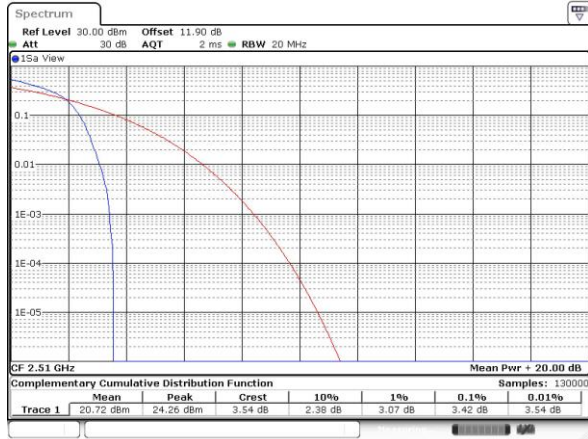


## Highest Channel / 1RB

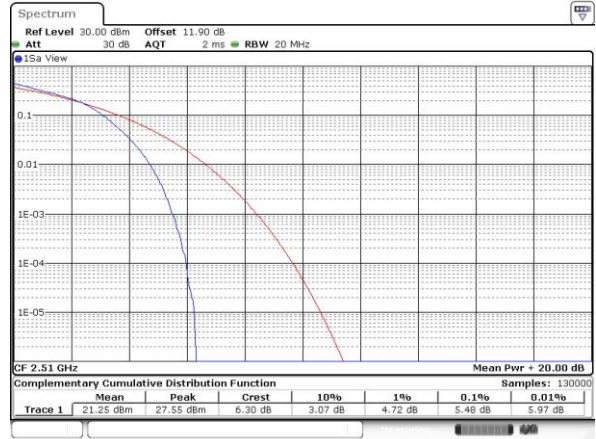


## Highest Channel / Full RB

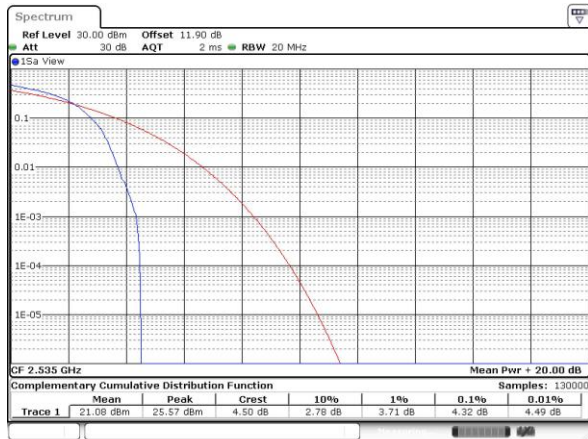


**LTE Band 7 / 20MHz / 16QAM**
**Lowest Channel / 1RB**


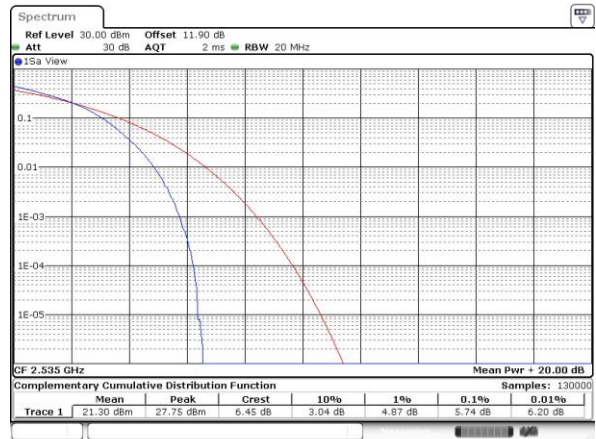
Date: 14.OCT.2016 23:01:20

**Lowest Channel / Full RB**


Date: 14.OCT.2016 23:03:14

**Middle Channel / 1RB**


Date: 14.OCT.2016 23:04:48

**Middle Channel / Full RB**


Date: 14.OCT.2016 23:07:04

**Highest Channel / 1RB**


Date: 14.OCT.2016 23:07:42

**Highest Channel / Full RB**


Date: 14.OCT.2016 23:09:25



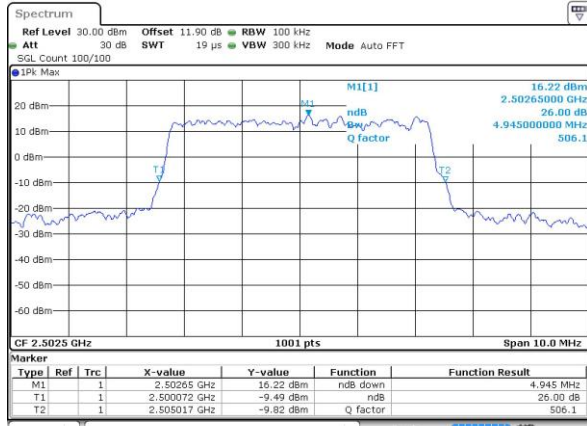
## 26dB Bandwidth

| 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  | -                         | -     | -    | -     | 4.945 | 4.995 | 9.85  | 9.71  | 14.595 | 14.206 | 20.34 | 20.579 |
| Middle CH  | -                         | -     | -    | -     | 5.075 | 5.005 | 9.87  | 9.93  | 14.296 | 14.386 | 20.18 | 20.1   |
| Highest CH | -                         | -     | -    | -     | 4.915 | 5.095 | 9.99  | 9.83  | 14.745 | 14.386 | 20.14 | 20.38  |



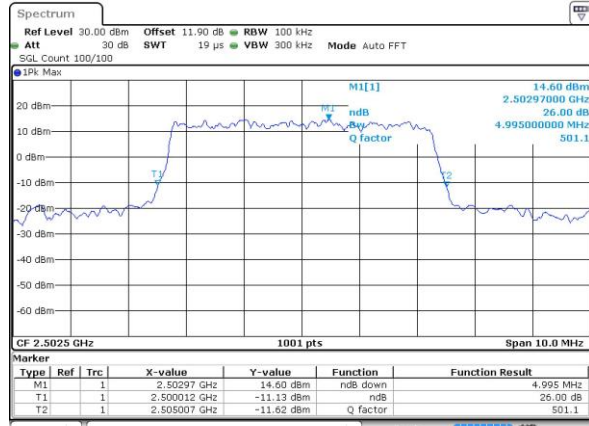
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



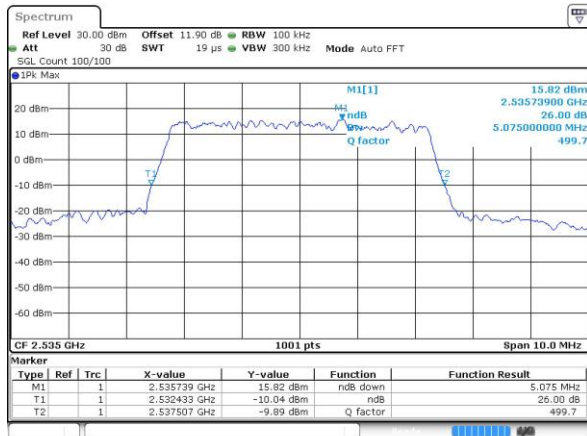
Date: 14.OCT.2016 21:48:37

## Lowest Channel / 5MHz / 16QAM



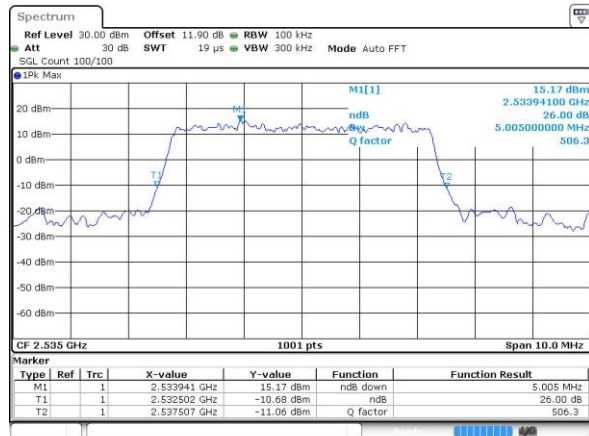
Date: 14.OCT.2016 21:48:47

## Middle Channel / 5MHz / QPSK



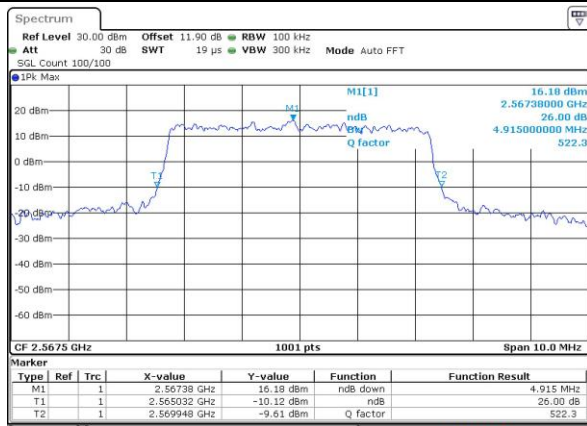
Date: 14.OCT.2016 21:55:44

## Middle Channel / 5MHz / 16QAM



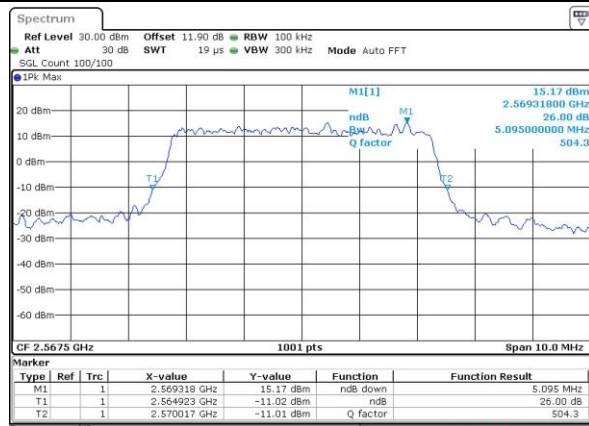
Date: 14.OCT.2016 21:55:55

## Highest Channel / 5MHz / QPSK



Date: 14.OCT.2016 21:58:13

## Highest Channel / 5MHz / 16QAM

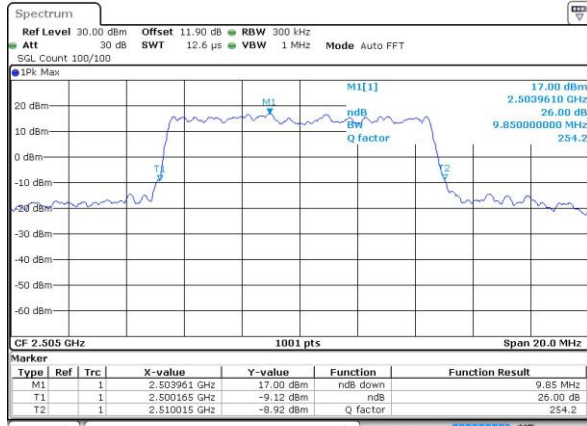


Date: 14.OCT.2016 21:58:24



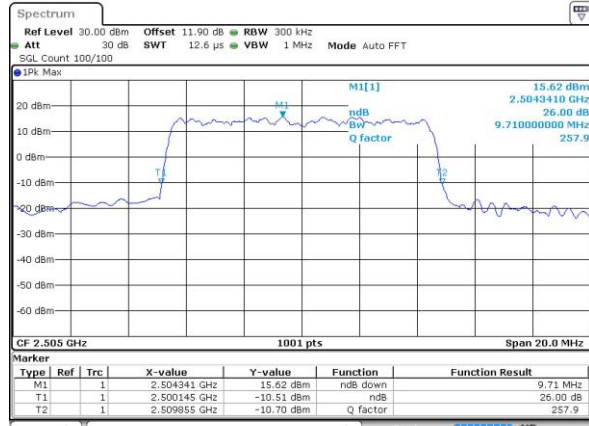
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



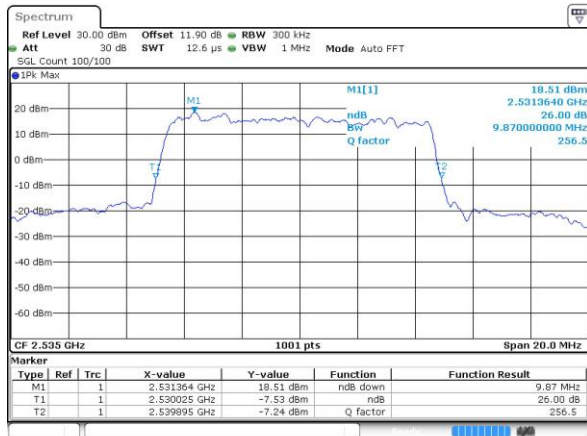
Date: 14.OCT.2016 22:05:21

## Lowest Channel / 10MHz / 16QAM



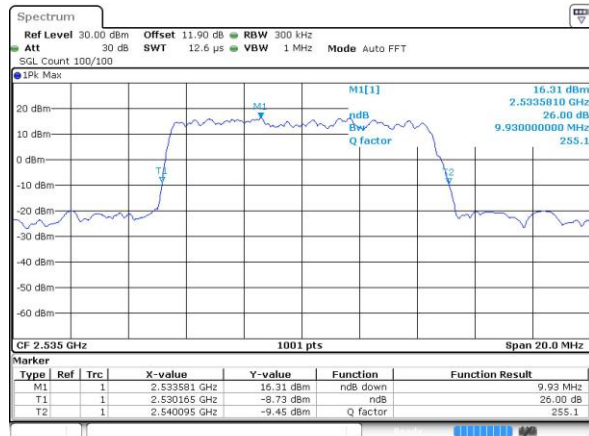
Date: 14.OCT.2016 22:05:32

## Middle Channel / 10MHz / QPSK



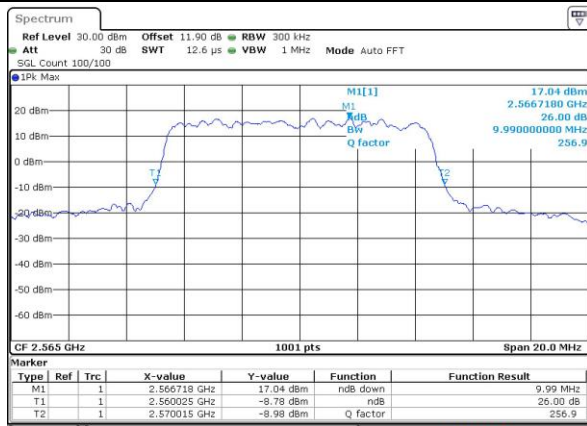
Date: 14.OCT.2016 22:12:29

## Middle Channel / 10MHz / 16QAM



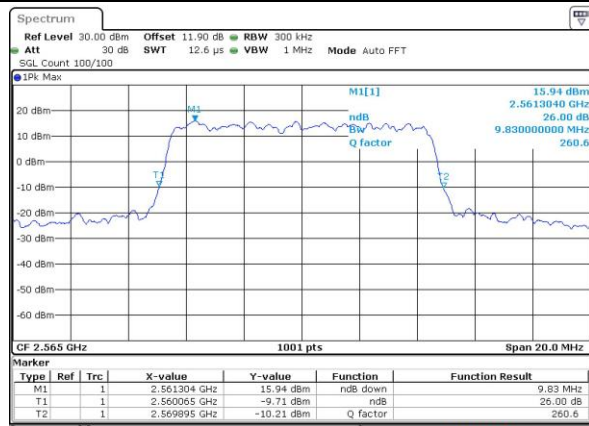
Date: 14.OCT.2016 22:12:40

## Highest Channel / 10MHz / QPSK



Date: 14.OCT.2016 22:14:58

## Highest Channel / 10MHz / 16QAM

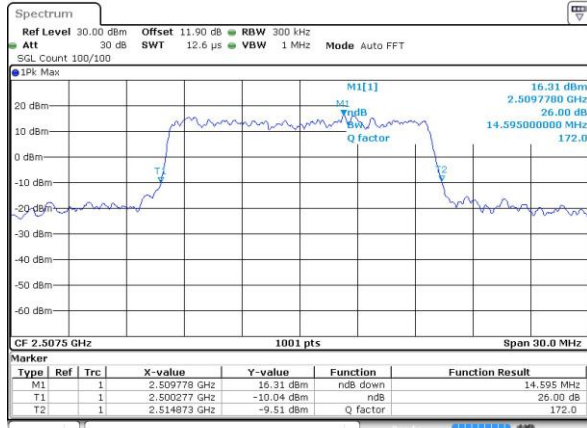


Date: 14.OCT.2016 22:15:09



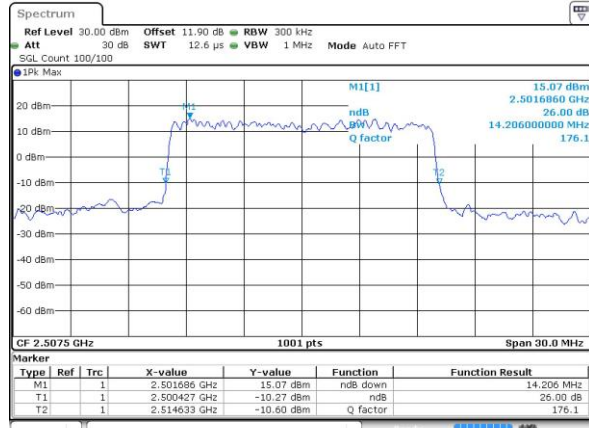
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



Date: 14.OCT.2016 22:22:07

## Lowest Channel / 15MHz / 16QAM



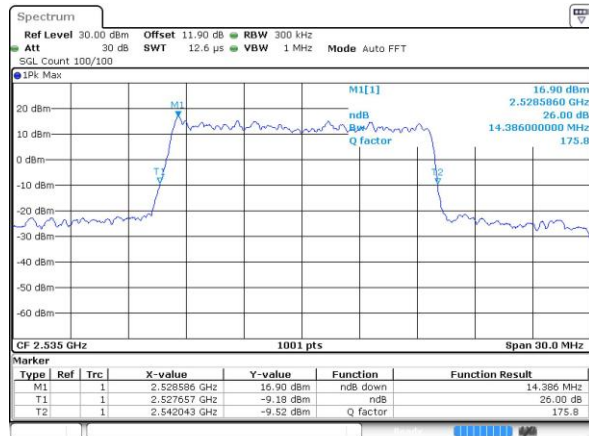
Date: 14.OCT.2016 22:22:17

## Middle Channel / 15MHz / QPSK



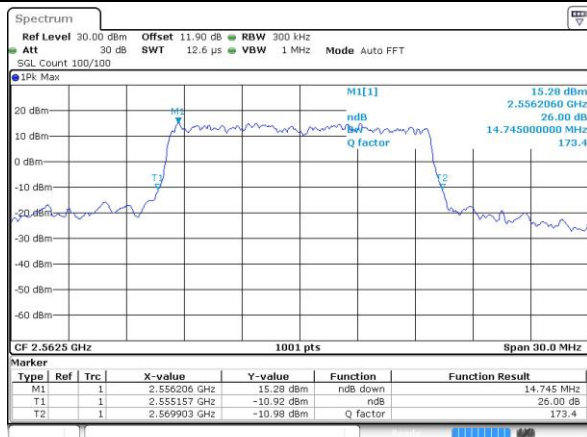
Date: 14.OCT.2016 22:29:15

## Middle Channel / 15MHz / 16QAM



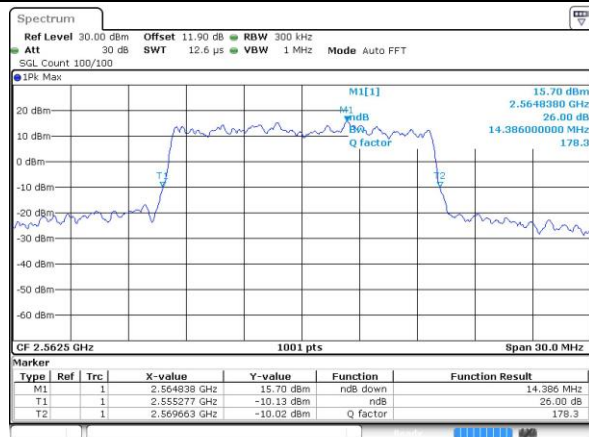
Date: 14.OCT.2016 22:29:25

## Highest Channel / 15MHz / QPSK



Date: 14.OCT.2016 22:31:44

## Highest Channel / 15MHz / 16QAM

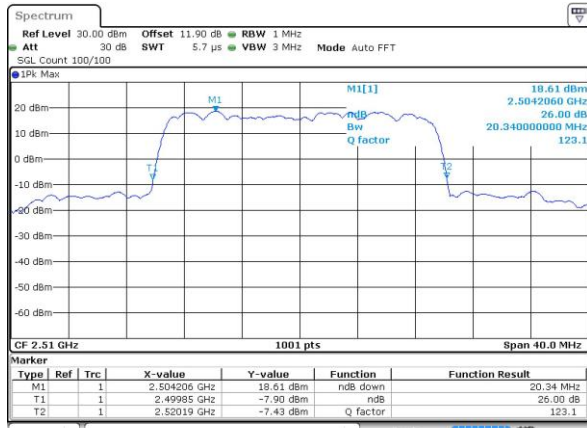


Date: 14.OCT.2016 22:31:54



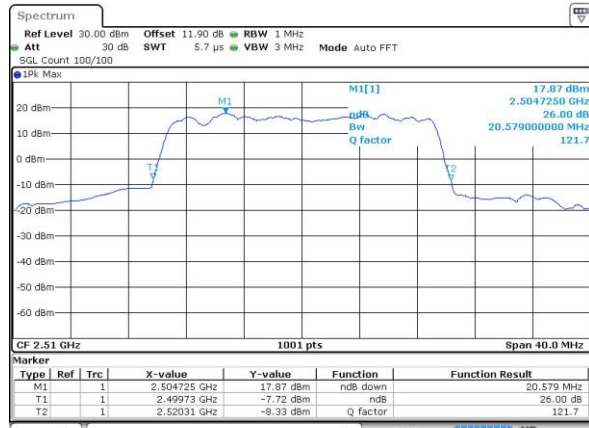
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



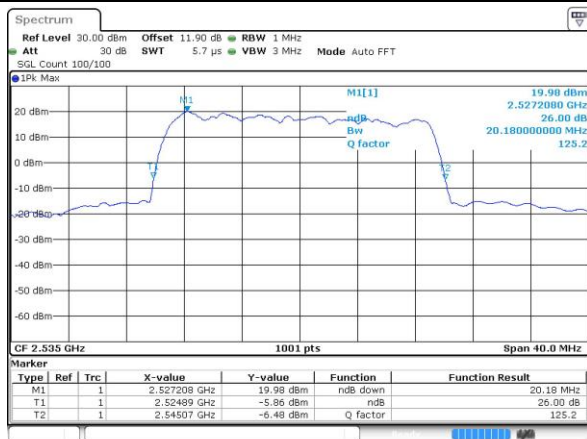
Date: 14.OCT.2016 22:38:52

## Lowest Channel / 20MHz / 16QAM



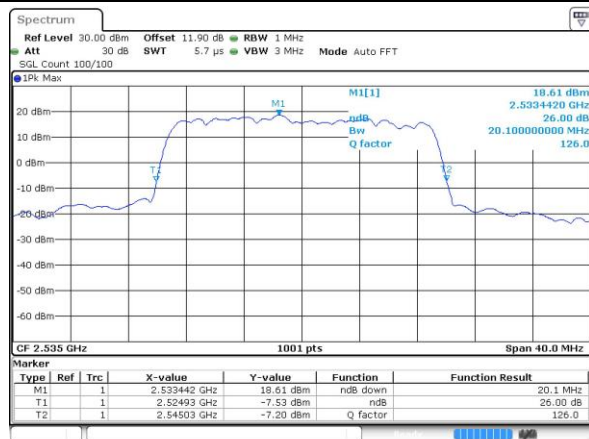
Date: 14.OCT.2016 22:39:02

## Middle Channel / 20MHz / QPSK



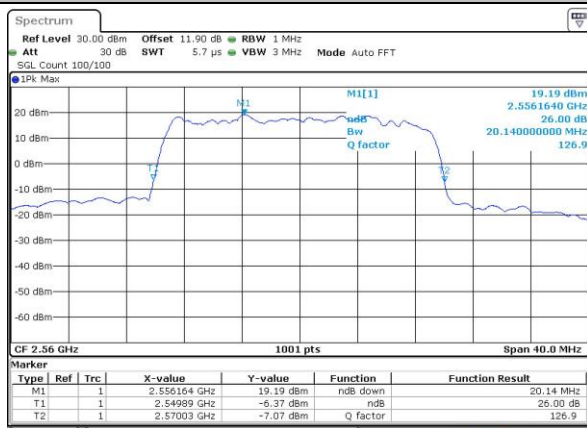
Date: 14.OCT.2016 22:46:00

## Middle Channel / 20MHz / 16QAM



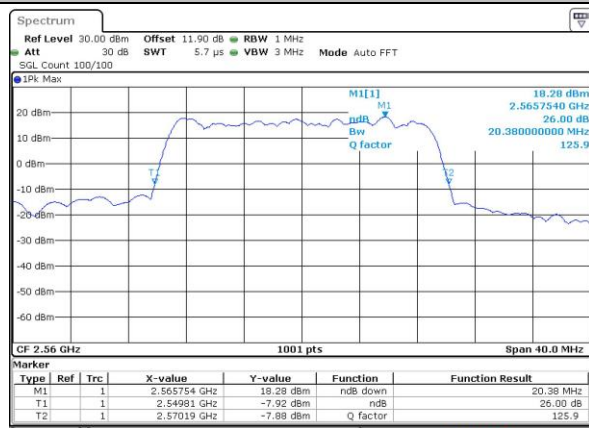
Date: 14.OCT.2016 22:46:10

## Highest Channel / 20MHz / QPSK



Date: 14.OCT.2016 22:48:29

## Highest Channel / 20MHz / 16QAM



Date: 14.OCT.2016 22:48:39

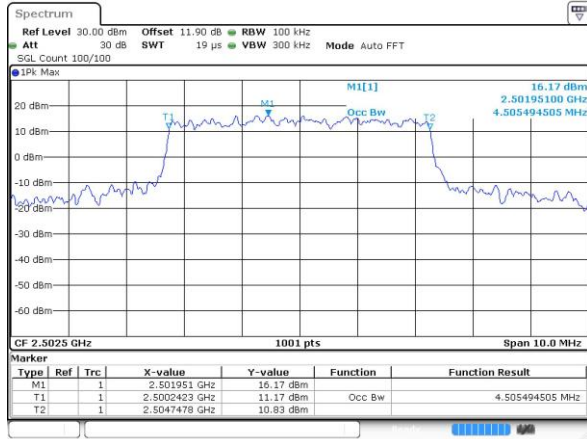
**Occupied Bandwidth**

| 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  | -                        | -     | -    | -     | 4.51 | 4.52  | 9.01  | 9.05  | 13.46 | 13.52 | 18.54 | 18.5  |
| Middle CH  | -                        | -     | -    | -     | 4.51 | 4.51  | 9.13  | 8.99  | 13.43 | 13.4  | 18.26 | 18.38 |
| Highest CH | -                        | -     | -    | -     | 4.51 | 4.52  | 9.03  | 9.01  | 13.46 | 13.43 | 18.3  | 18.26 |



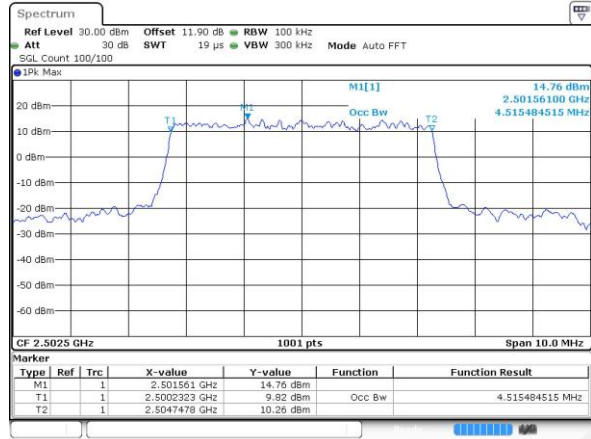
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



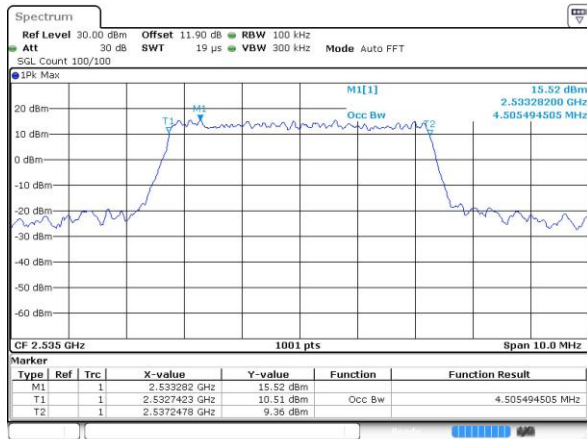
Date: 14.OCT.2016 21:48:16

## Lowest Channel / 5MHz / 16QAM



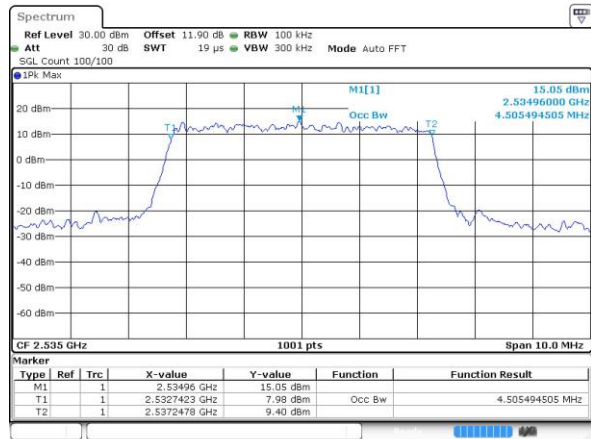
Date: 14.OCT.2016 21:48:26

## Middle Channel / 5MHz / QPSK



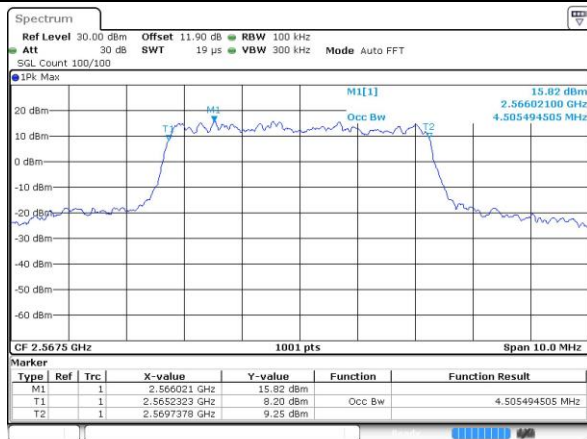
Date: 14.OCT.2016 21:55:24

## Middle Channel / 5MHz / 16QAM



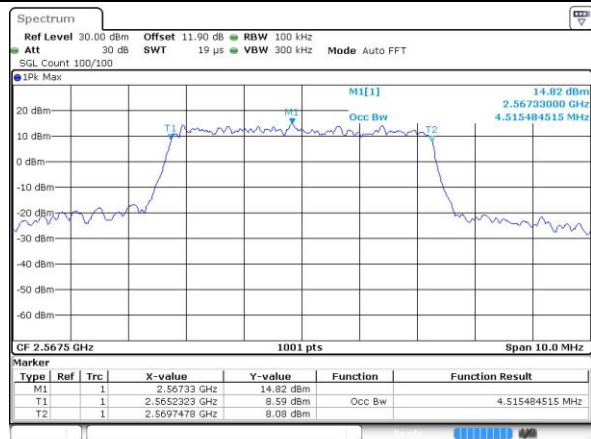
Date: 14.OCT.2016 21:55:34

## Highest Channel / 5MHz / QPSK



Date: 14.OCT.2016 21:57:52

## Highest Channel / 5MHz / 16QAM

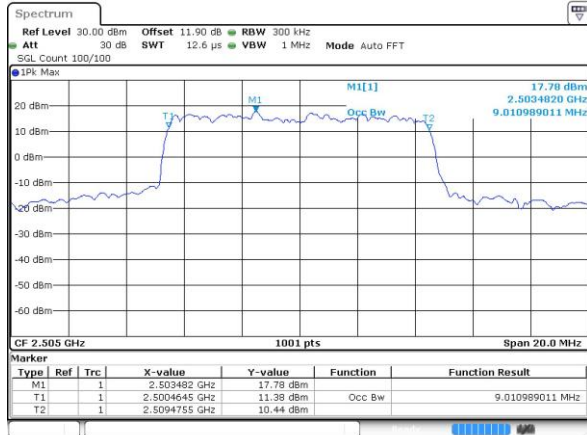


Date: 14.OCT.2016 21:58:03



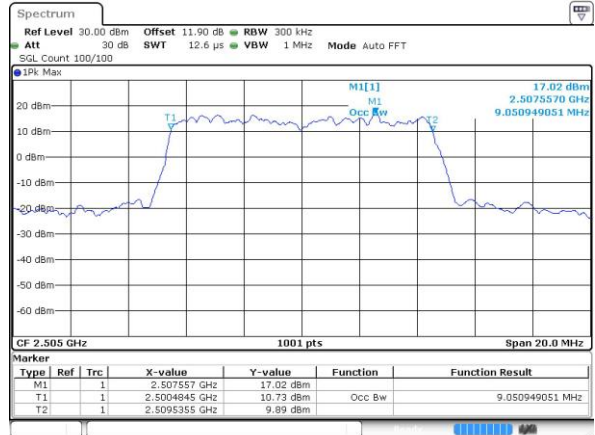
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



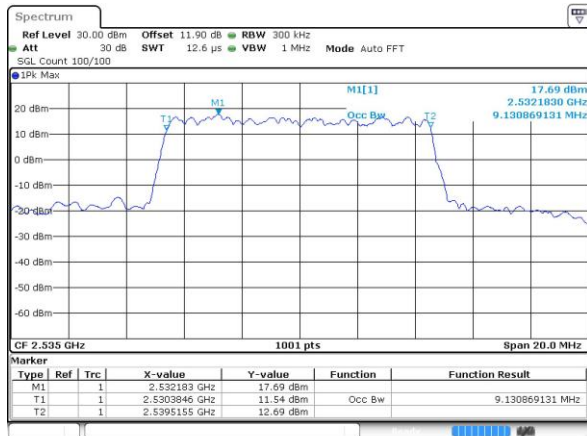
Date: 14.OCT.2016 22:05:01

## Lowest Channel / 10MHz / 16QAM



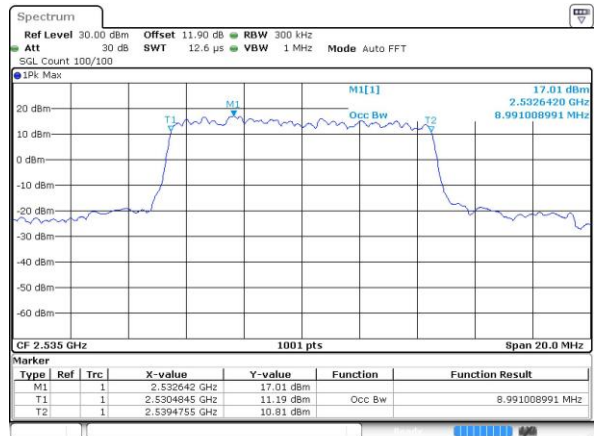
Date: 14.OCT.2016 22:05:11

## Middle Channel / 10MHz / QPSK



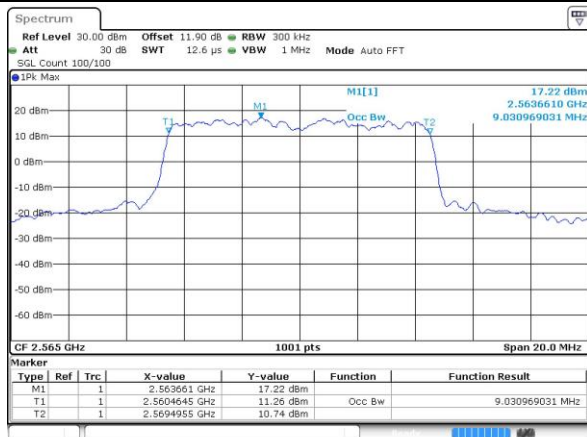
Date: 14.OCT.2016 22:12:09

## Middle Channel / 10MHz / 16QAM



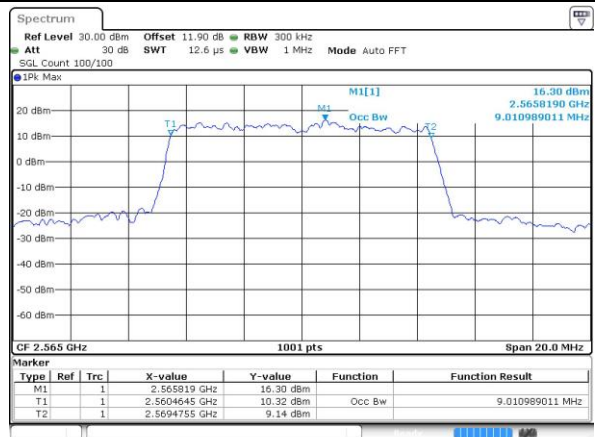
Date: 14.OCT.2016 22:12:19

## Highest Channel / 10MHz / QPSK



Date: 14.OCT.2016 22:14:37

## Highest Channel / 10MHz / 16QAM



Date: 14.OCT.2016 22:14:48