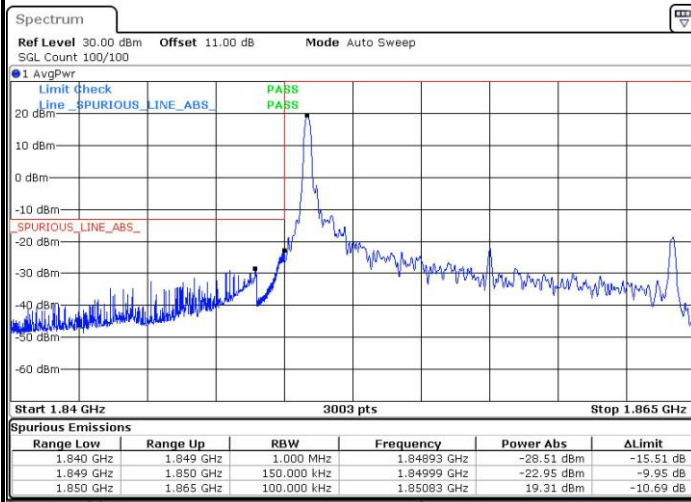


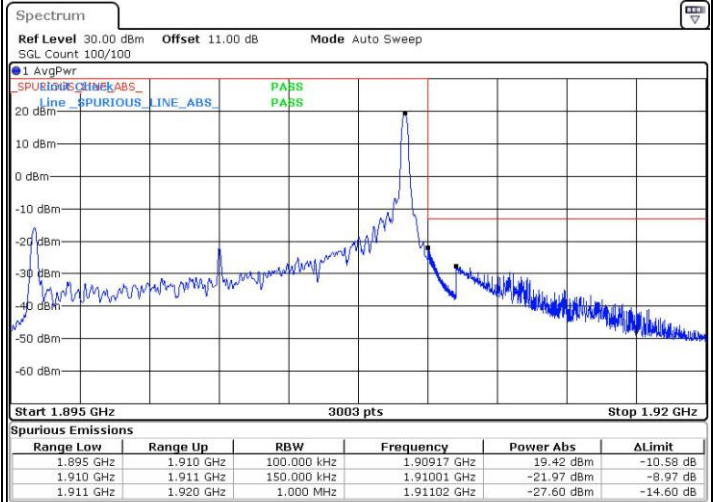


## LTE Band 2 / 15MHz / QPSK

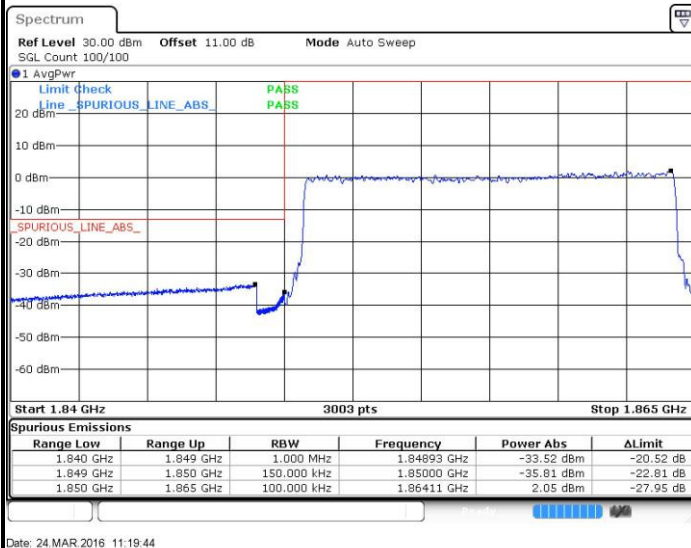
## Lowest Band Edge / 1 RB



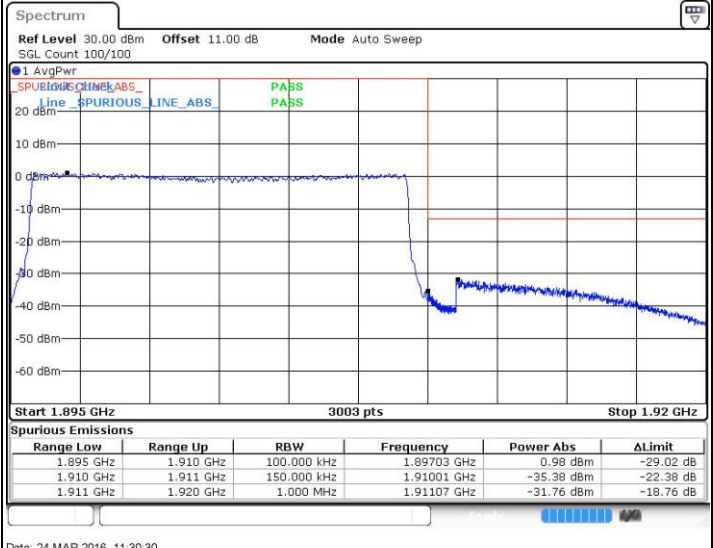
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



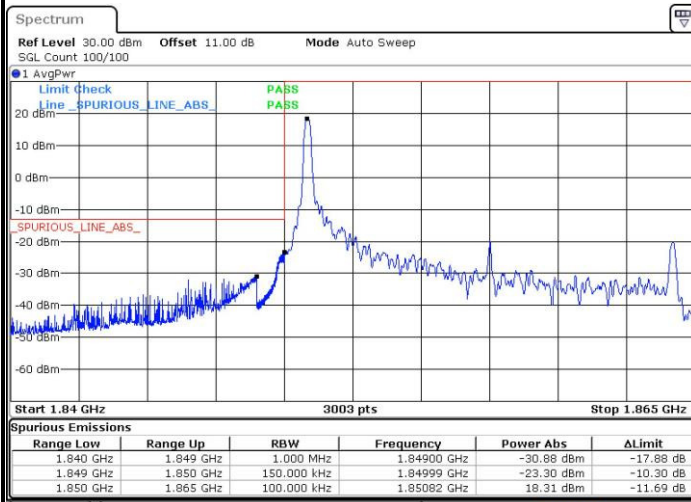
## Highest Band Edge / Full RB



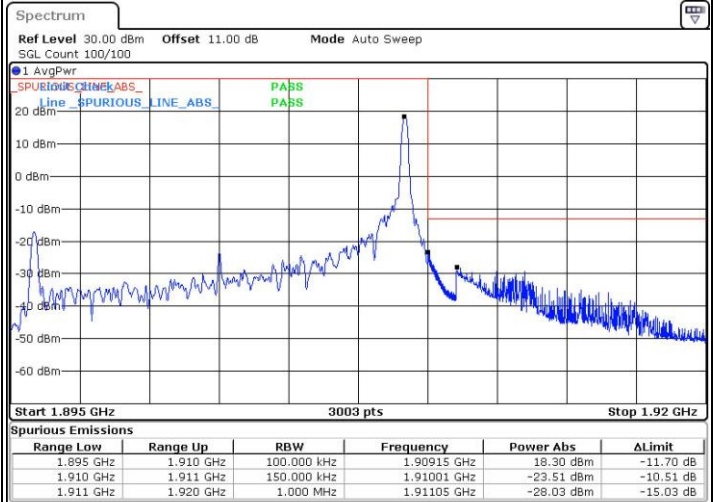


## LTE Band 2 / 15MHz / 16QAM

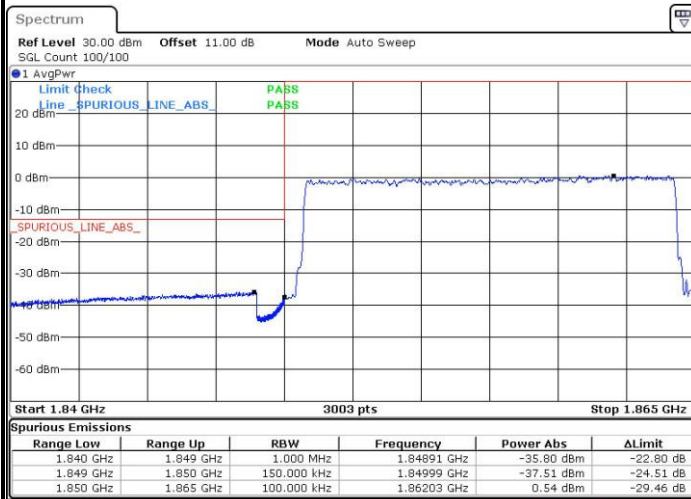
## Lowest Band Edge / 1 RB



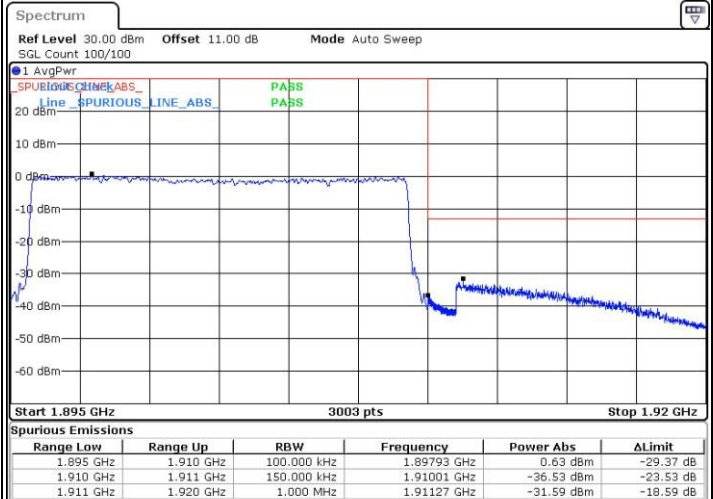
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



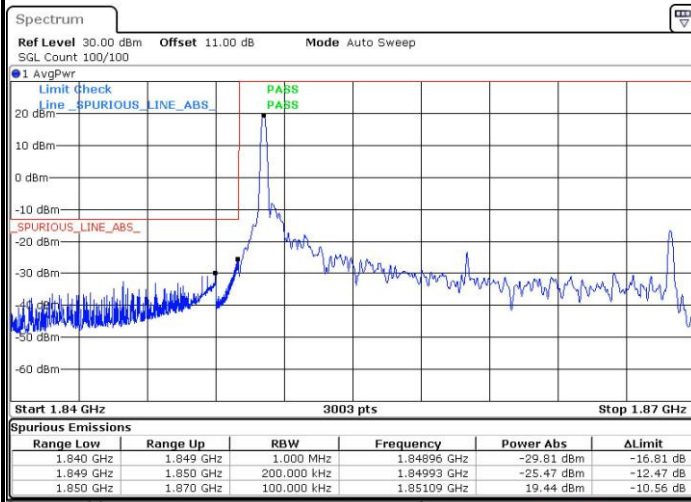
## Highest Band Edge / Full RB



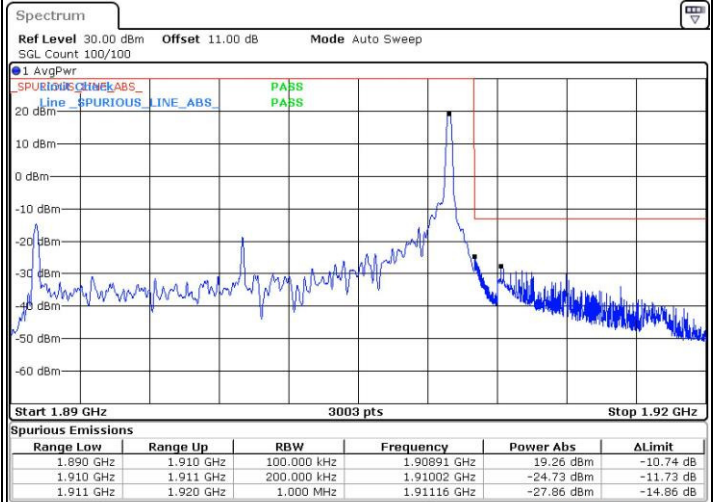


## LTE Band 2 / 20MHz / QPSK

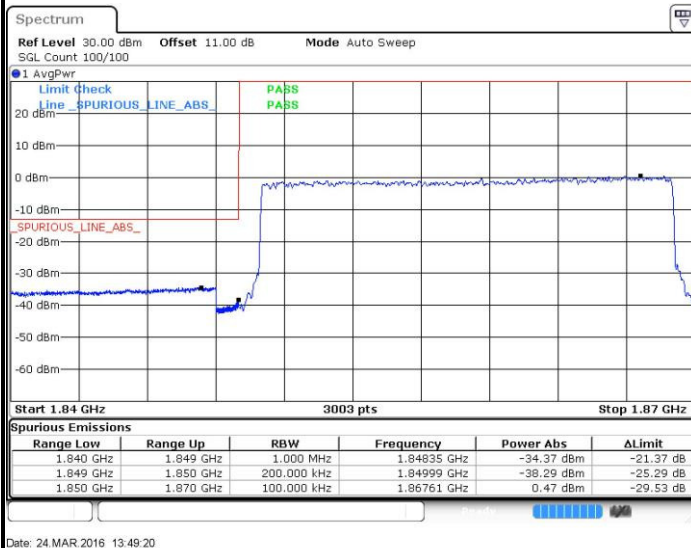
## Lowest Band Edge / 1 RB



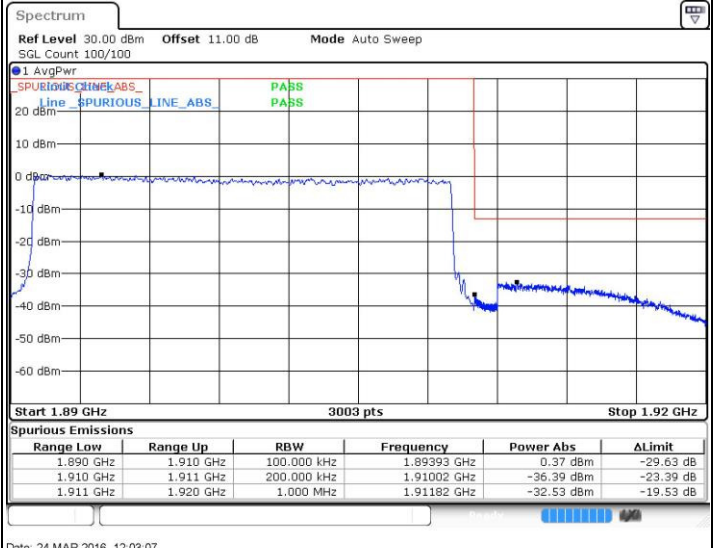
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



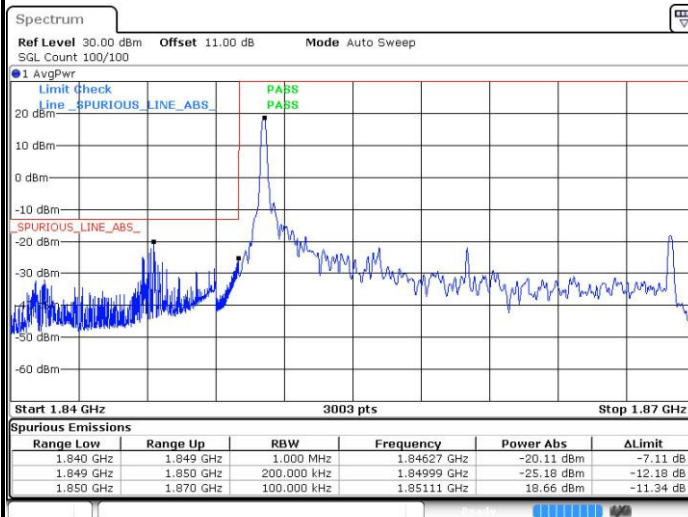
## Highest Band Edge / Full RB



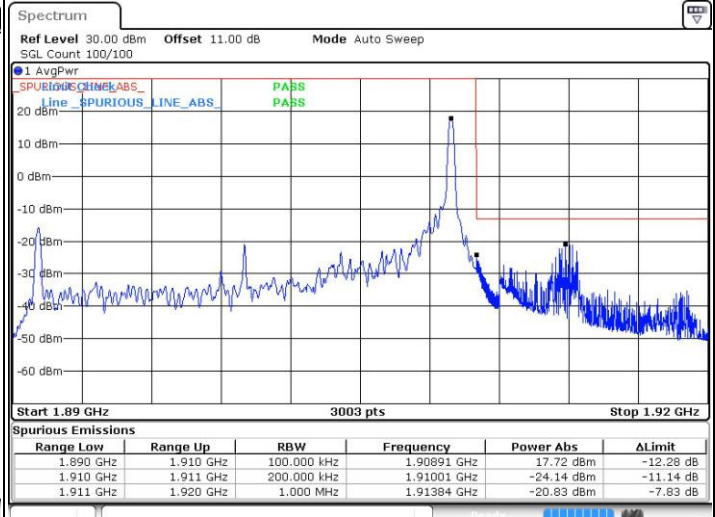


## LTE Band 2 / 20MHz / 16QAM

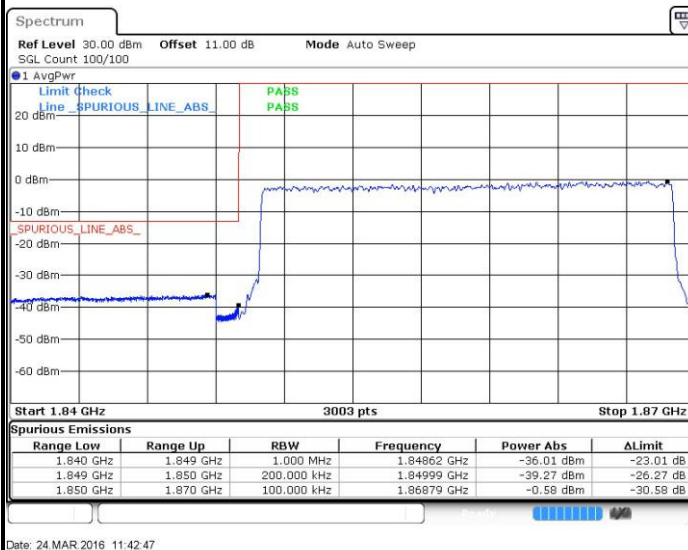
## Lowest Band Edge / 1 RB



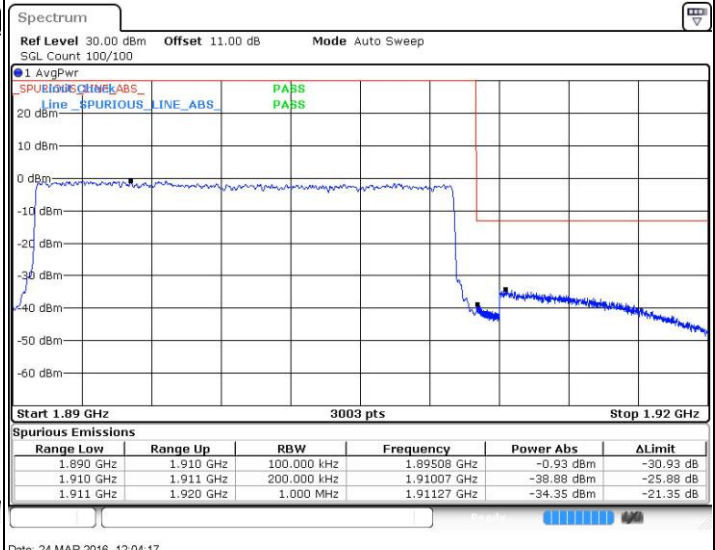
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

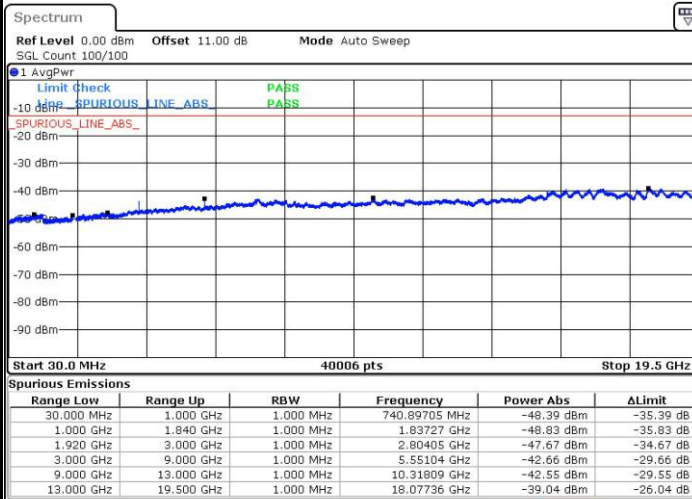




## Conducted Spurious Emission

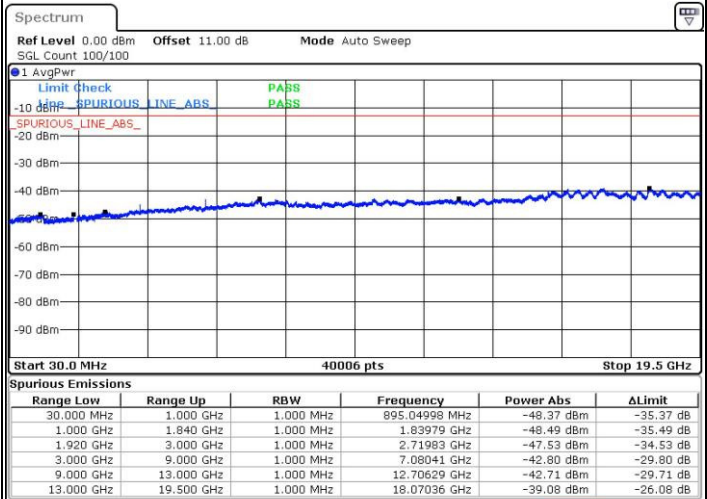
### LTE Band 2 / 5MHz

#### Lowest Channel / QPSK



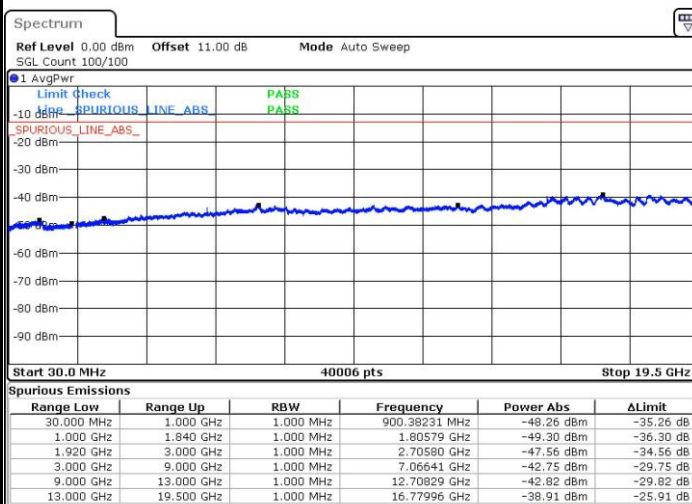
Date: 24.MAR.2016 10:08:57

#### Lowest Channel / 16QAM



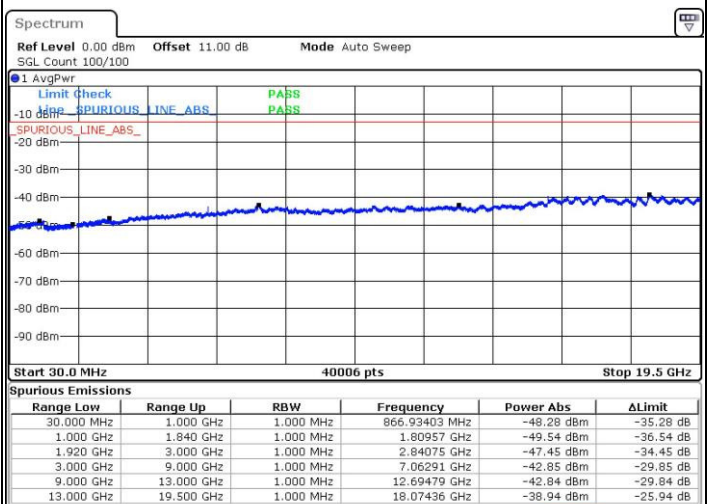
Date: 24.MAR.2016 10:09:52

#### Middle Channel / QPSK



Date: 24.MAR.2016 10:11:29

#### Middle Channel / 16QAM

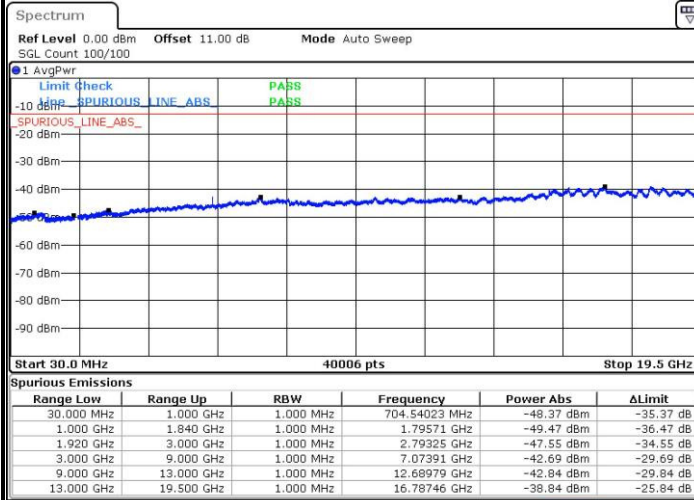


Date: 24.MAR.2016 10:12:23



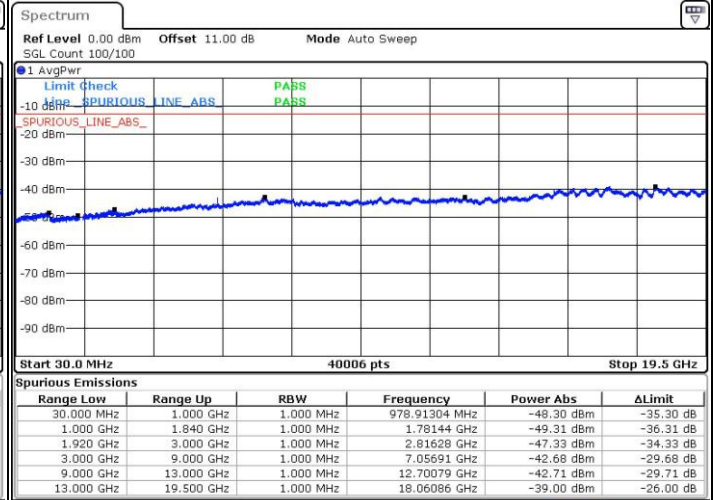
## LTE Band 2 / 5MHz

## Highest Channel / QPSK



Date: 24 MAR 2016 10:22:06

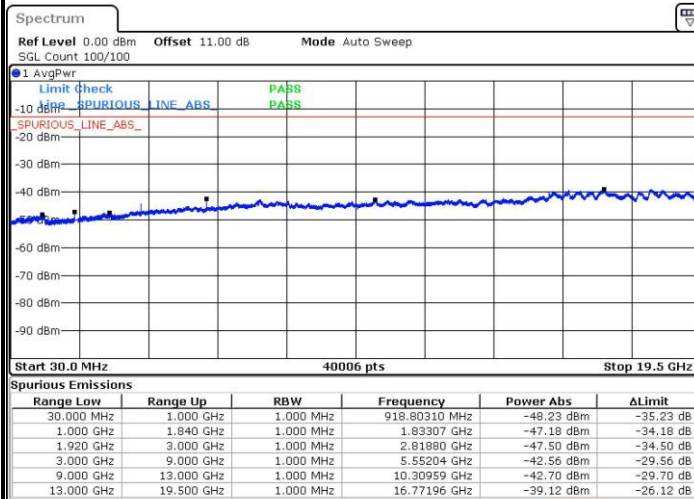
## Highest Channel / 16QAM



Date: 24 MAR 2016 10:23:13

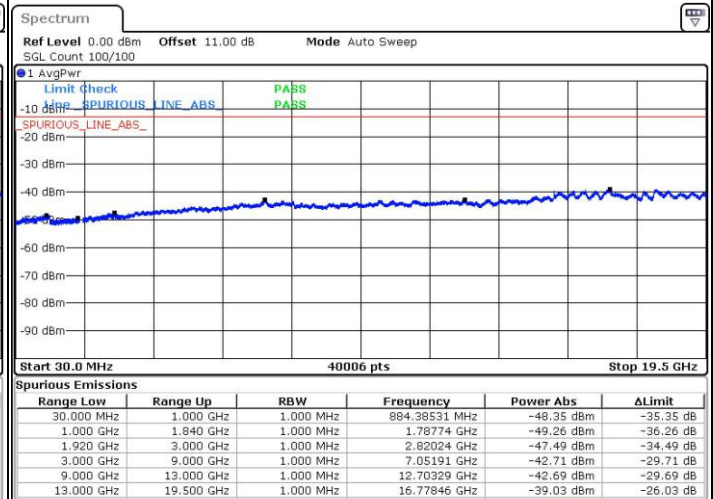
## LTE Band 2 / 10MHz

## Lowest Channel / QPSK



Date: 24 MAR 2016 10:30:09

## Lowest Channel / 16QAM

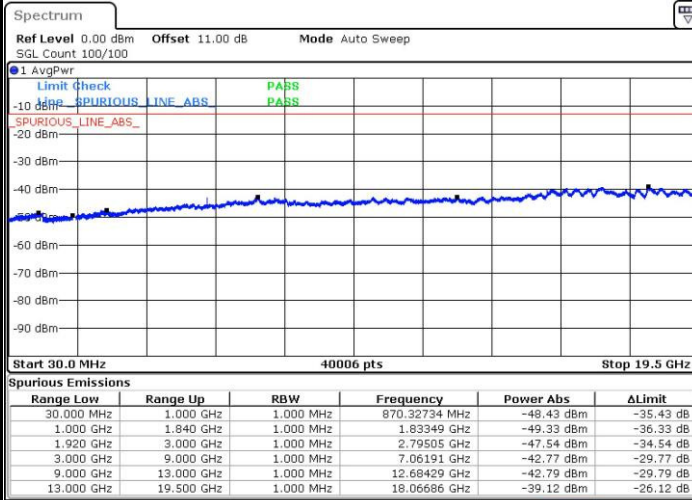


Date: 24 MAR 2016 10:31:12



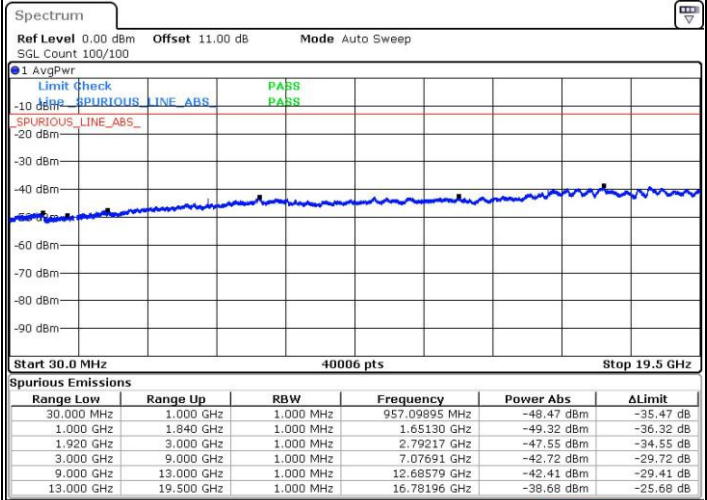
## LTE Band 2 / 10MHz

## Middle Channel / QPSK



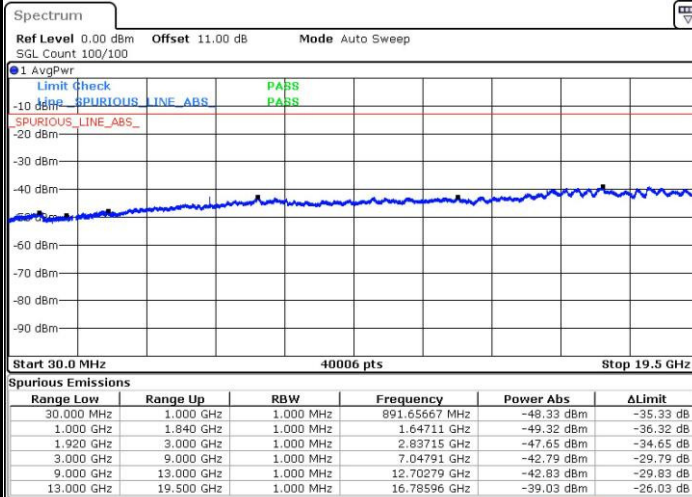
Date: 24 MAR 2016 10:32:58

## Middle Channel / 16QAM



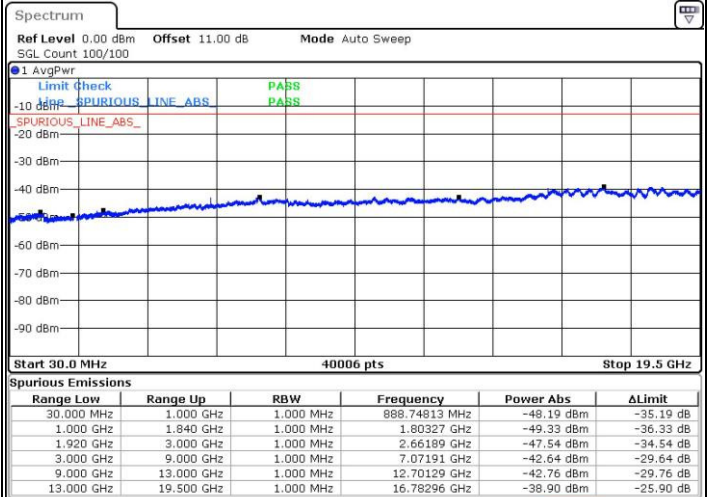
Date: 24 MAR 2016 10:33:53

## Highest Channel / QPSK



Date: 24 MAR 2016 10:41:53

## Highest Channel / 16QAM

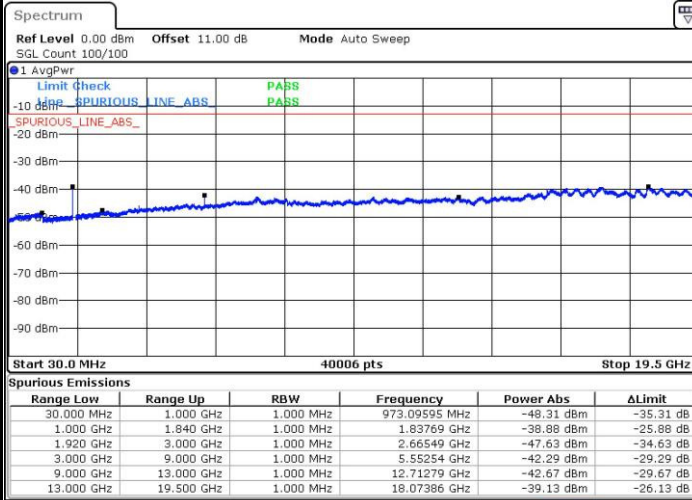


Date: 24 MAR 2016 10:42:48



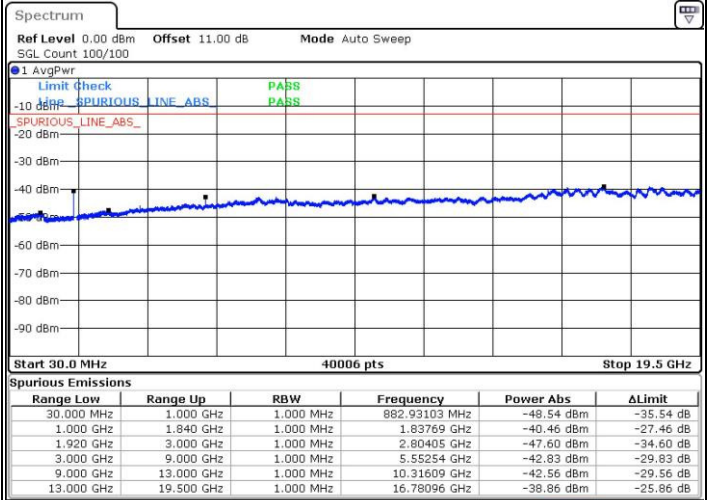
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



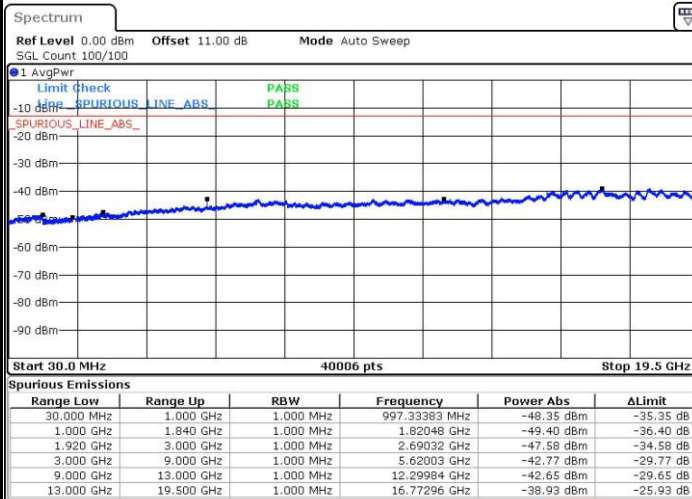
Date: 24 MAR 2016 11:22:54

## Lowest Channel / 16QAM



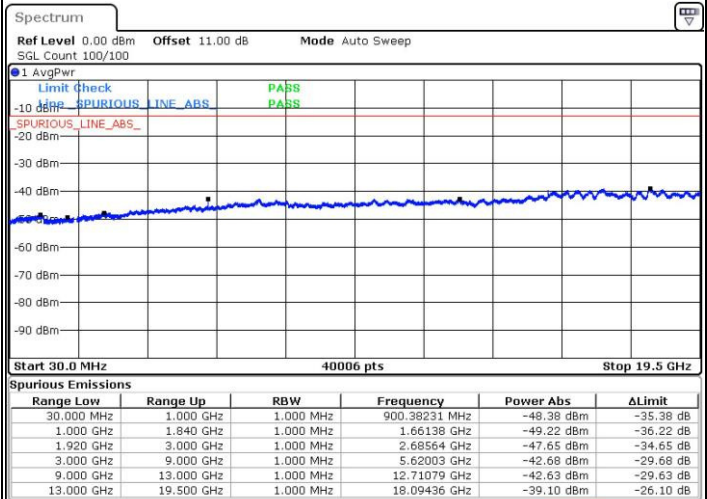
Date: 24 MAR 2016 11:23:49

## Middle Channel / QPSK



Date: 24 MAR 2016 11:25:25

## Middle Channel / 16QAM

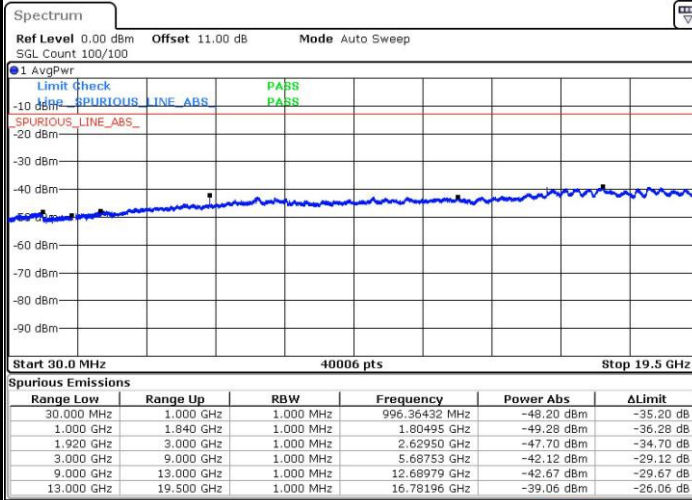


Date: 24 MAR 2016 11:26:20



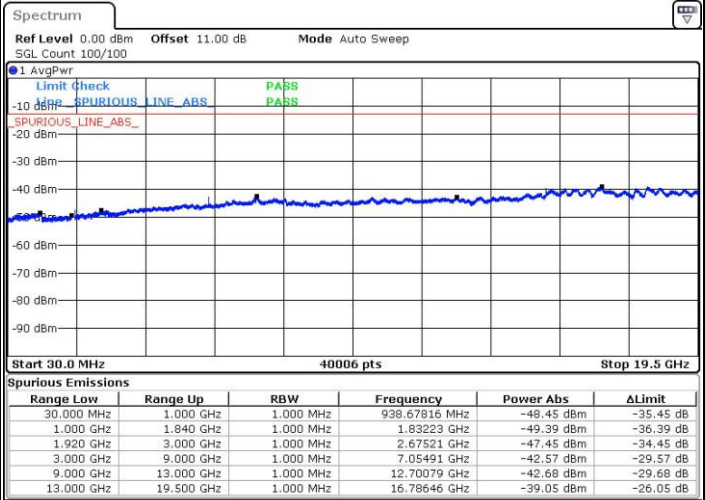
## LTE Band 2 / 15MHz

## Highest Channel / QPSK



Date: 24 MAR 2016 11:32:34

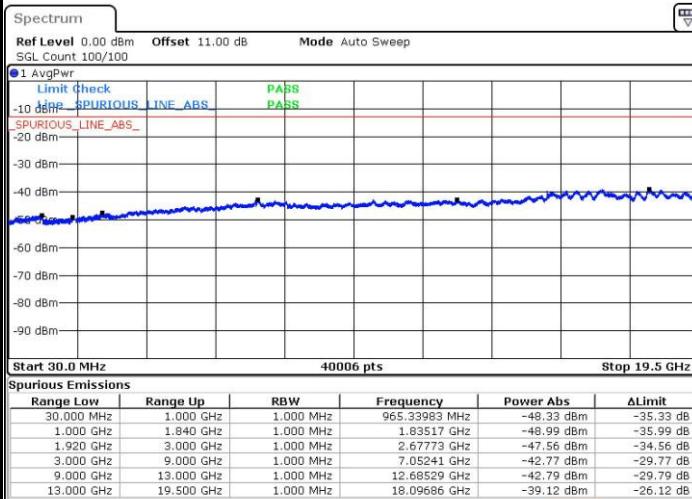
## Highest Channel / 16QAM



Date: 24 MAR 2016 11:33:29

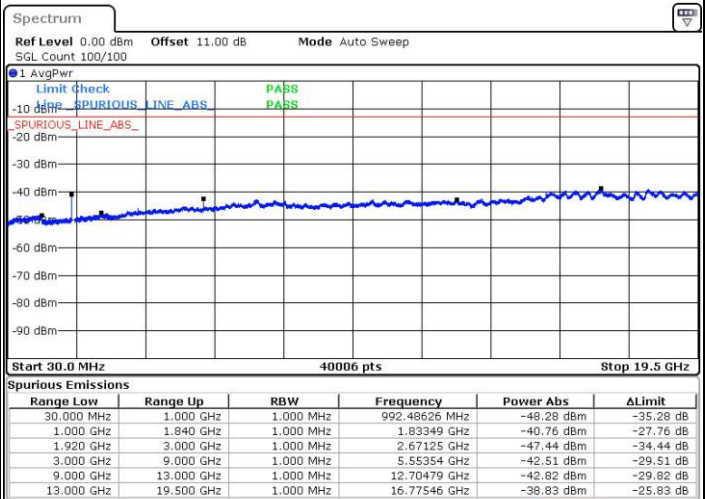
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



Date: 24 MAR 2016 11:43:43

## Lowest Channel / 16QAM

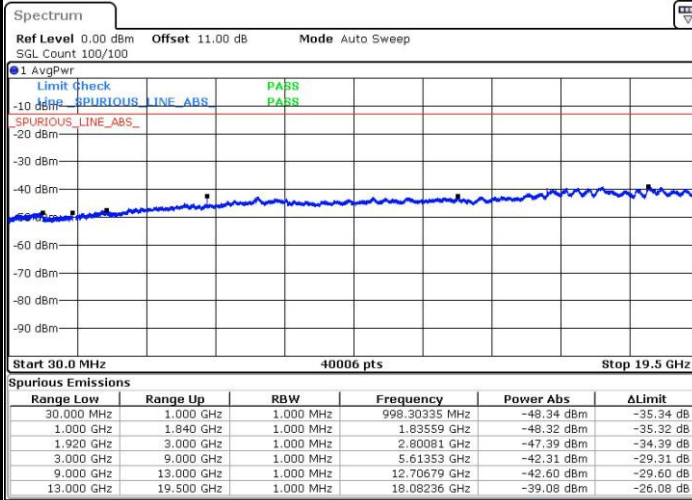


Date: 24 MAR 2016 11:54:26



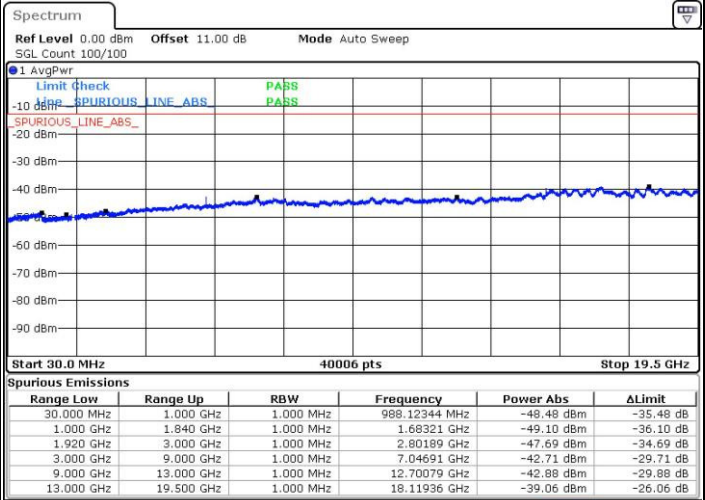
## LTE Band 2 / 20MHz

## Middle Channel / QPSK



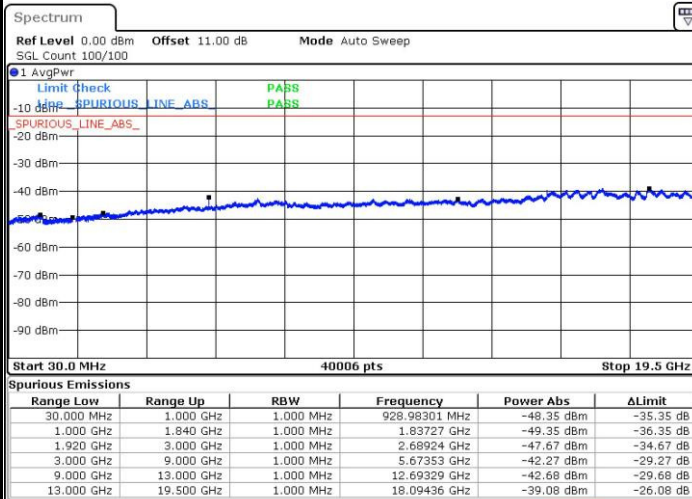
Date: 24 MAR 2016 11:56:03

## Middle Channel / 16QAM



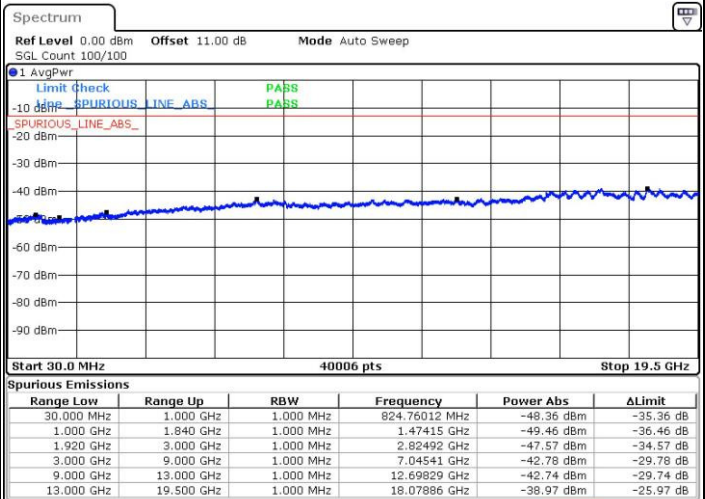
Date: 24 MAR 2016 11:56:57

## Highest Channel / QPSK



Date: 24 MAR 2016 12:05:11

## Highest Channel / 16QAM



Date: 24 MAR 2016 12:06:15

## Frequency Stability

| Test Conditions  |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0170                             | PASS    |
| 40               | Normal Voltage    | 0.0158                             |         |
| 30               | Normal Voltage    | 0.0187                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0053                             |         |
| 0                | Normal Voltage    | 0.0152                             |         |
| -10              | Normal Voltage    | 0.0129                             |         |
| -20              | Normal Voltage    | 0.0029                             |         |
| -30              | Normal Voltage    | 0.0269                             |         |
| 20               | Maximum Voltage   | 0.0199                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0035                             |         |

**Note:**

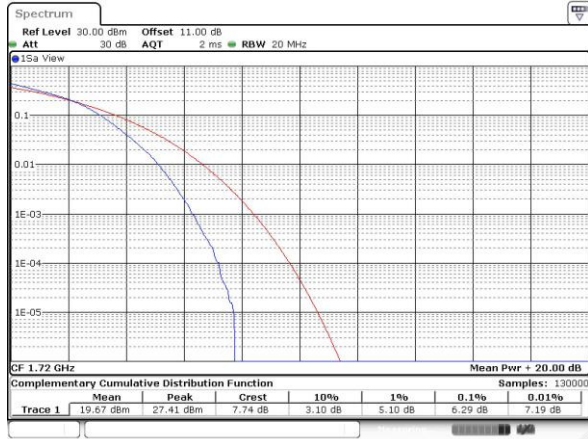
1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



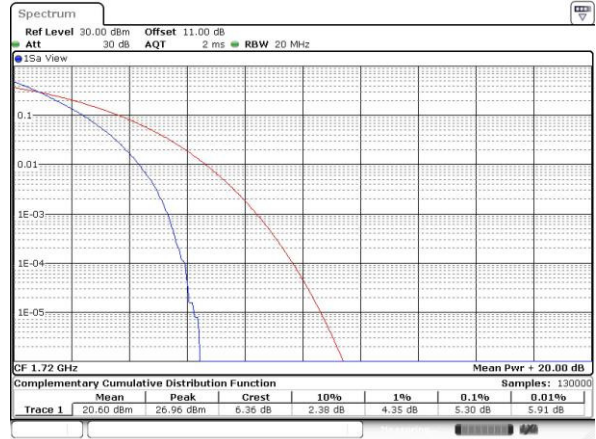
## LTE Band 4

### Peak-to-Average Ratio

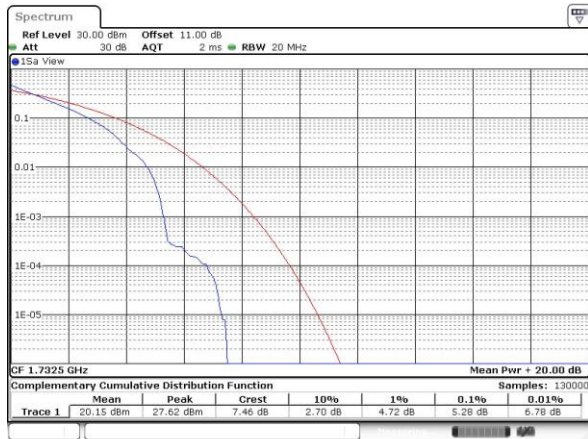
| Mode       | LTE Band 4 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 6.29               | 5.3     | 5.91  | 6.32    | PASS        |
| Middle CH  | 5.28               | 5.45    | 6.17  | 6.35    |             |
| Highest CH | 5.33               | 5.39    | 6.38  | 6.35    |             |

**LTE Band 4 / 20MHz / QPSK**
**Lowest Channel / 1RB**


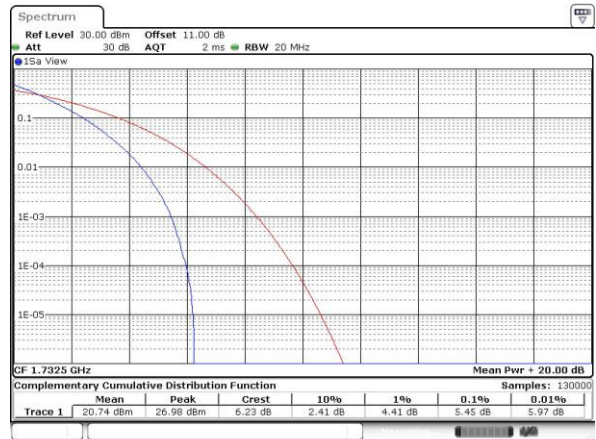
Date: 24 MAR 2016 15:51:13

**Lowest Channel / Full RB**


Date: 24 MAR 2016 15:51:39

**Middle Channel / 1RB**


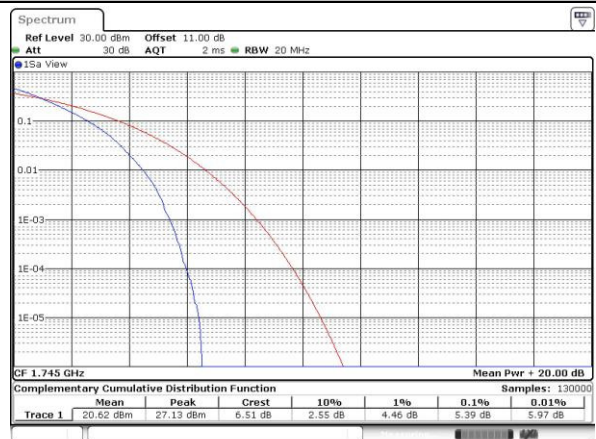
Date: 24 MAR 2016 15:52:06

**Middle Channel / Full RB**


Date: 24 MAR 2016 15:52:18

**Highest Channel / 1RB**


Date: 24 MAR 2016 15:52:41

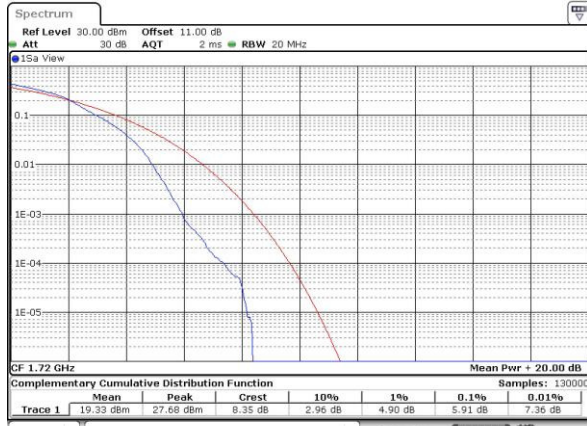
**Highest Channel / Full RB**


Date: 24 MAR 2016 15:52:52

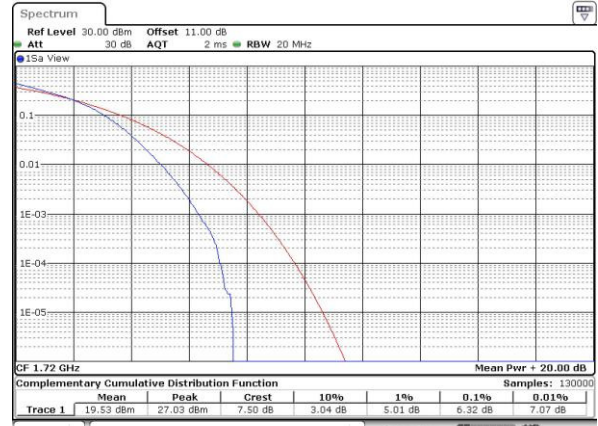


## LTE Band 4 / 20MHz / 16QAM

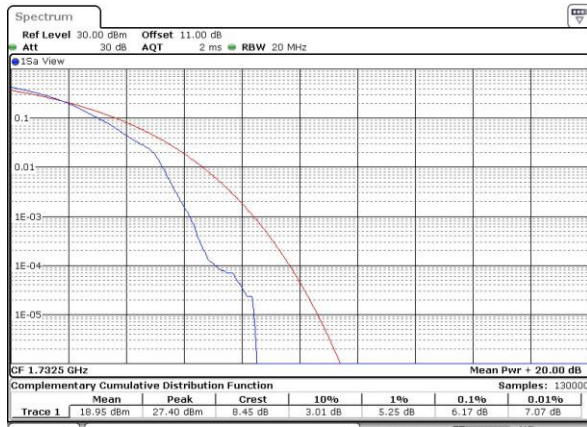
## Lowest Channel / 1RB



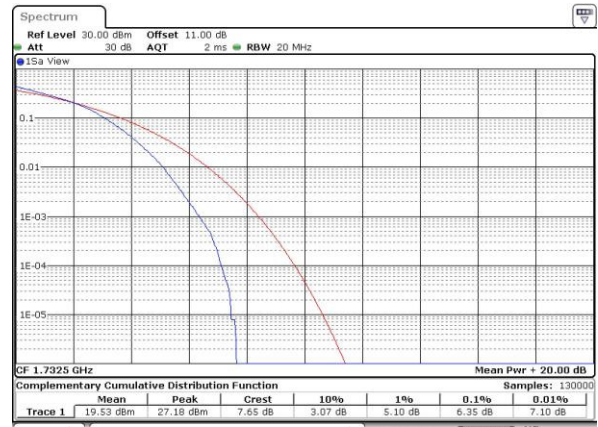
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



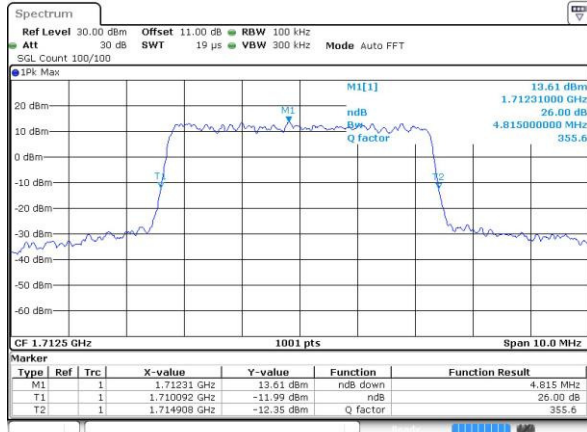
**26dB Bandwidth**

| Mode       | LTE Band 4 : 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  | -                         | -     | -    | -     | 4.82 | 4.8   | 9.91  | 9.61  | 14.51 | 14.33 | 20.18 | 20.18 |
| Middle CH  | -                         | -     | -    | -     | 4.89 | 4.87  | 9.91  | 9.77  | 14.27 | 14.18 | 20.26 | 20.14 |
| Highest CH | -                         | -     | -    | -     | 4.92 | 4.89  | 9.61  | 9.87  | 14.27 | 14.18 | 20.14 | 20.14 |

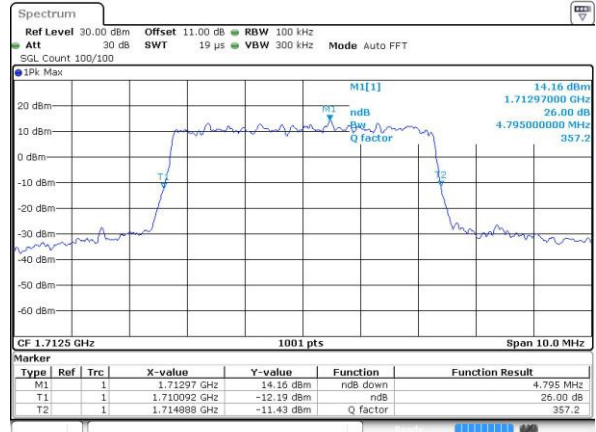


## LTE Band 4

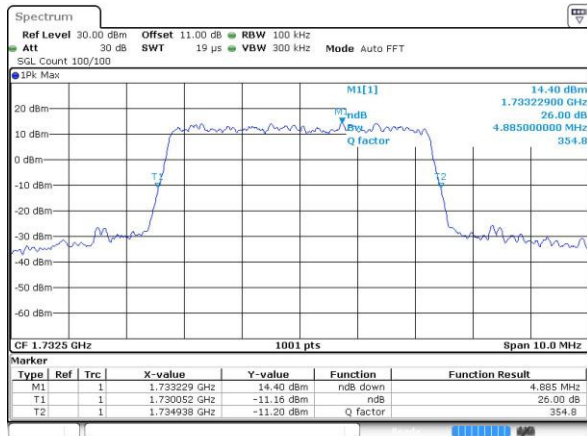
## Lowest Channel / 5MHz / QPSK



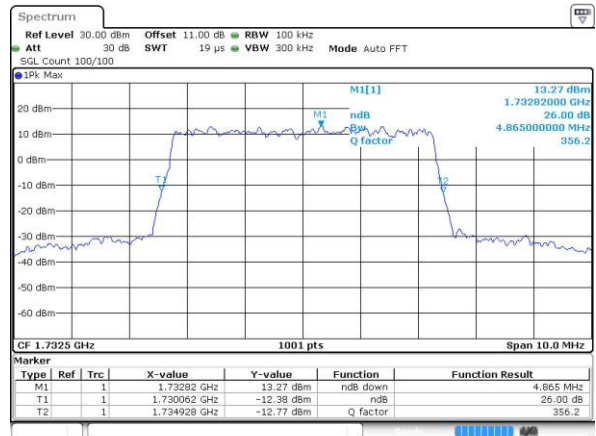
## Lowest Channel / 5MHz / 16QAM



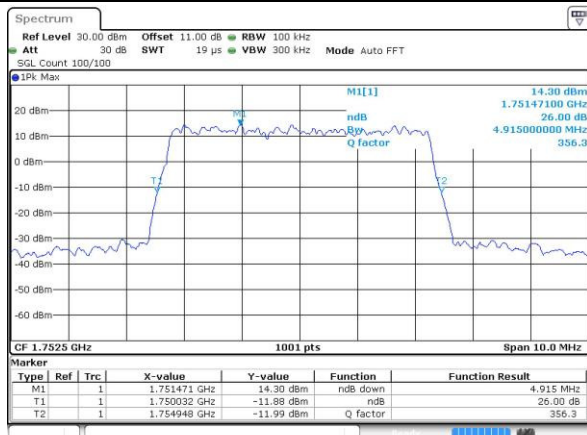
## Middle Channel / 5MHz / QPSK



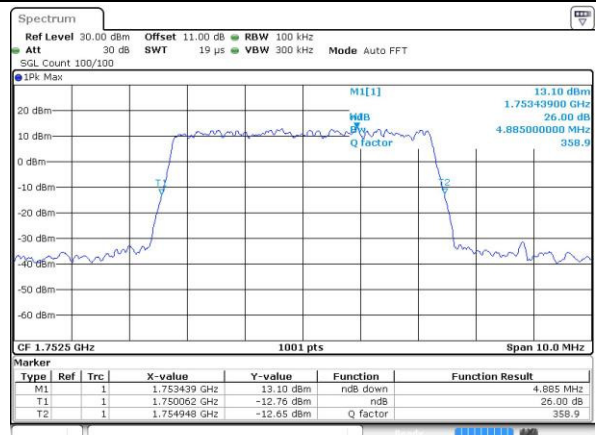
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



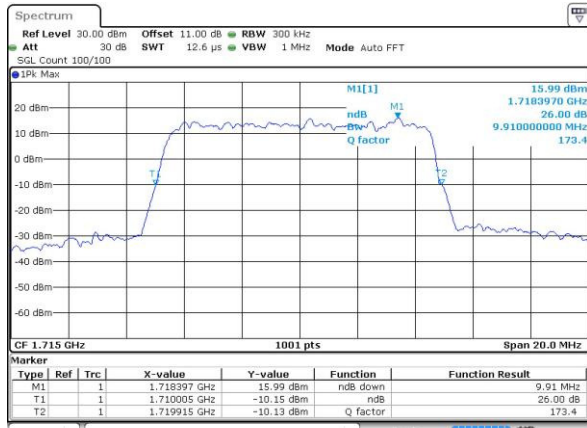
## Highest Channel / 5MHz / 16QAM





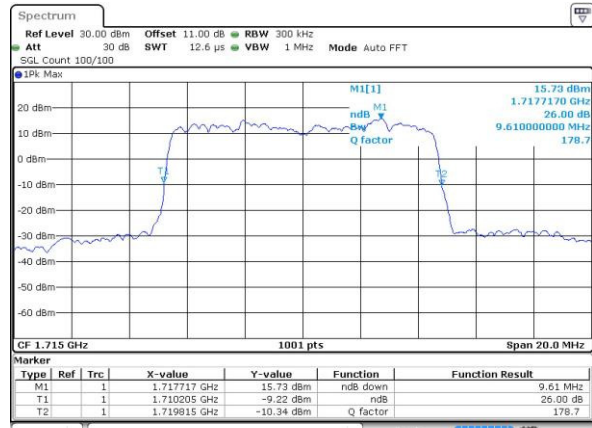
## LTE Band 4

## Lowest Channel / 10MHz / QPSK



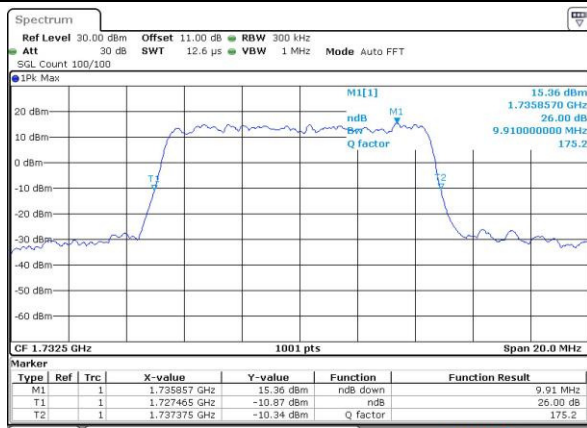
Date: 24 MAR 2016 14:23:25

## Lowest Channel / 10MHz / 16QAM



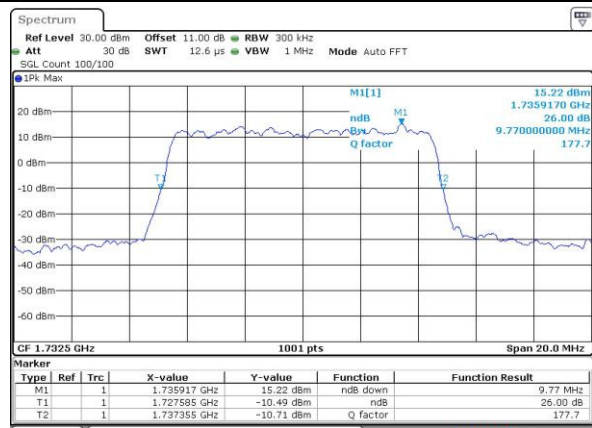
Date: 24 MAR 2016 14:23:35

## Middle Channel / 10MHz / QPSK



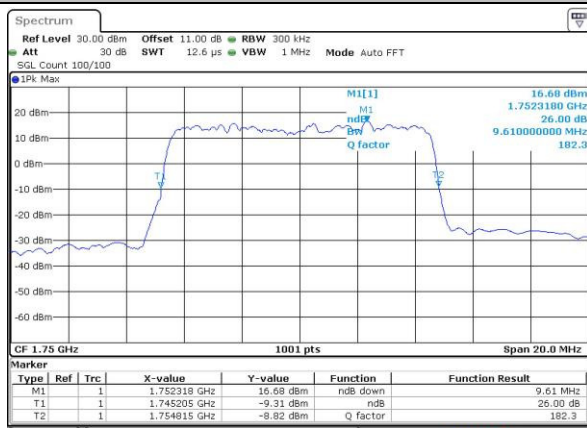
Date: 24 MAR 2016 14:34:14

## Middle Channel / 10MHz / 16QAM



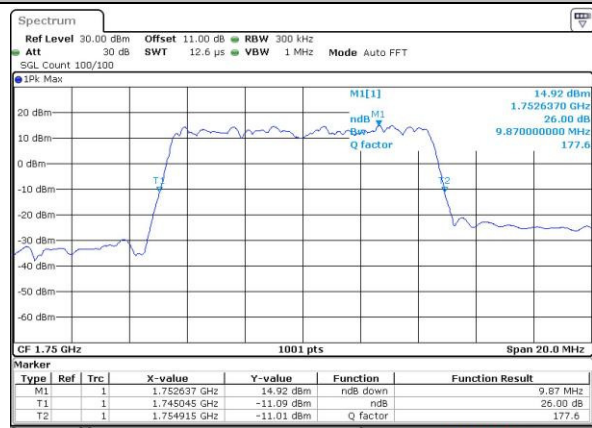
Date: 24 MAR 2016 14:34:24

## Highest Channel / 10MHz / QPSK



Date: 24 MAR 2016 14:38:26

## Highest Channel / 10MHz / 16QAM

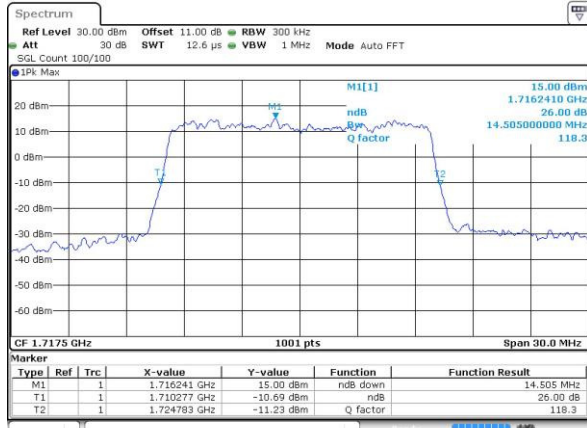


Date: 24 MAR 2016 14:38:36



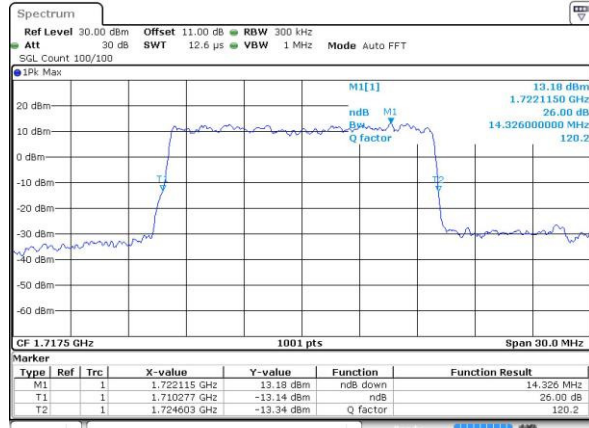
## LTE Band 4

## Lowest Channel / 15MHz / QPSK



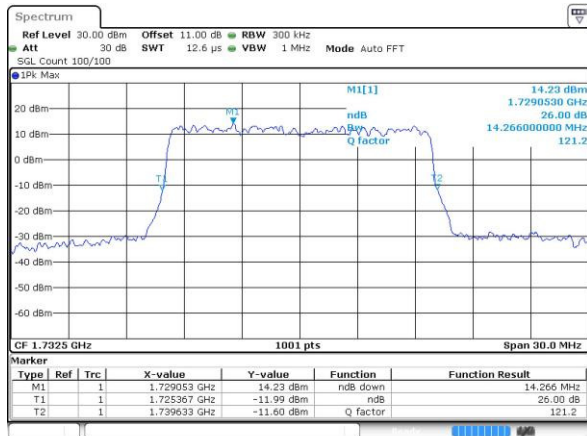
Date: 24 MAR 2016 14:46:49

## Lowest Channel / 15MHz / 16QAM



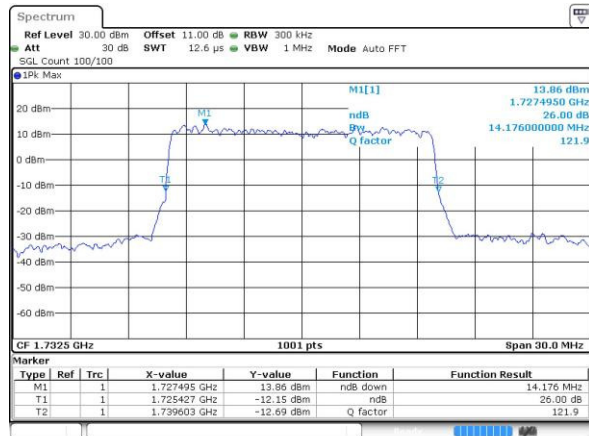
Date: 24 MAR 2016 14:47:00

## Middle Channel / 15MHz / QPSK



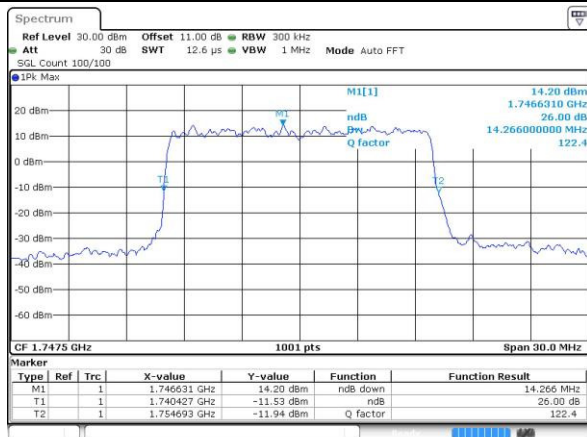
Date: 24 MAR 2016 15:03:31

## Middle Channel / 15MHz / 16QAM



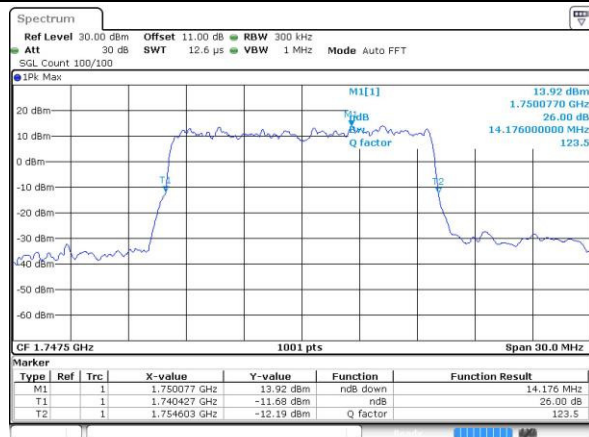
Date: 24 MAR 2016 15:03:41

## Highest Channel / 15MHz / QPSK



Date: 24 MAR 2016 15:06:03

## Highest Channel / 15MHz / 16QAM



Date: 24 MAR 2016 15:06:13