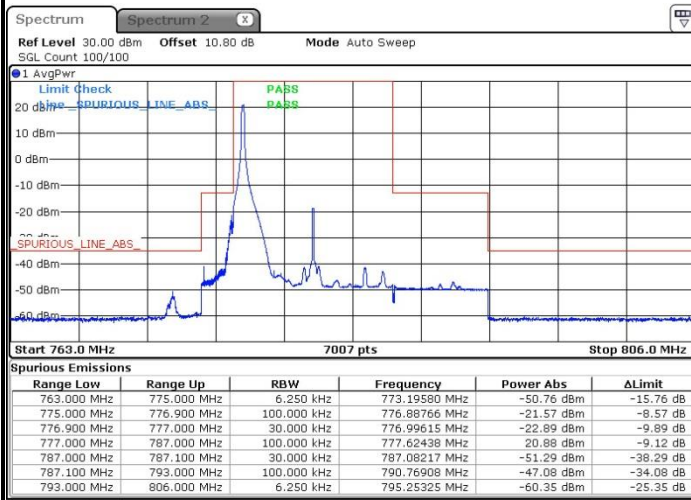




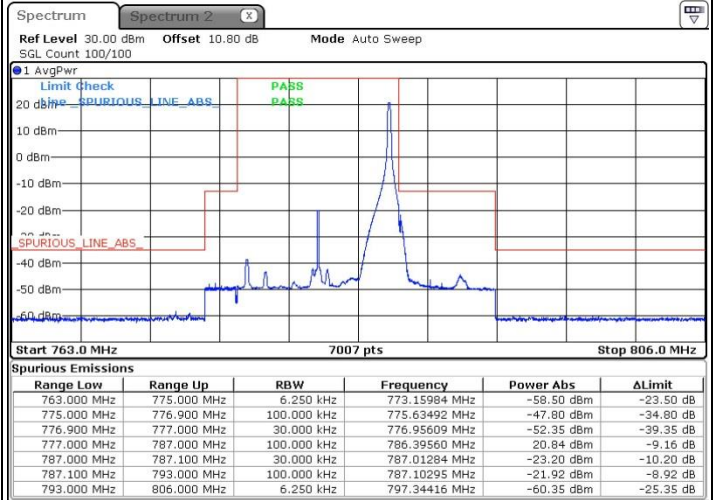
## IC LTE Band 13 / 10MHz / QPSK

## Lowest Band Edge / 1 RB



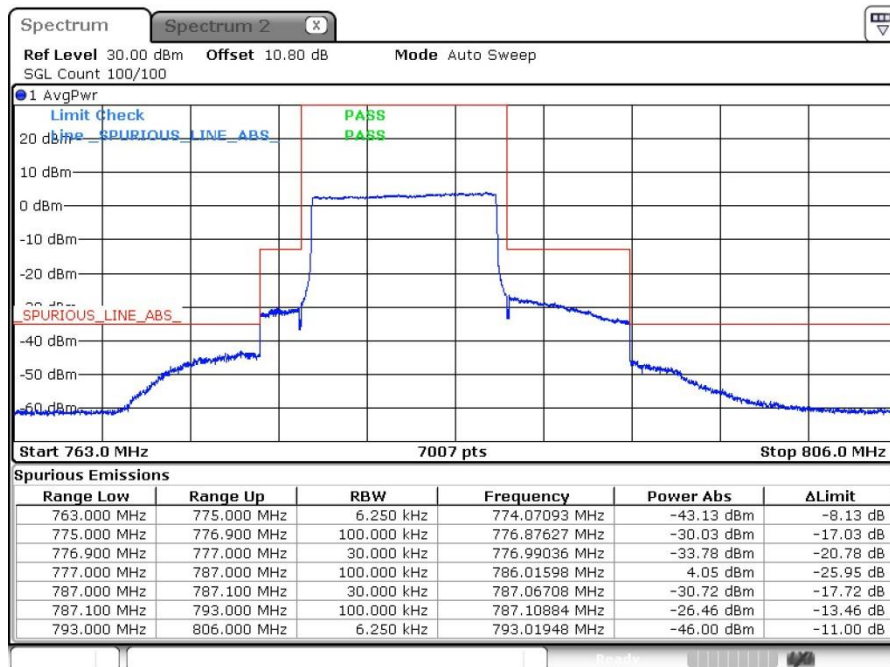
Date: 6.NOV.2016 20:21:15

## Highest Band Edge / 1 RB



Date: 6.NOV.2016 20:22:55

## Band Edge / Full RB

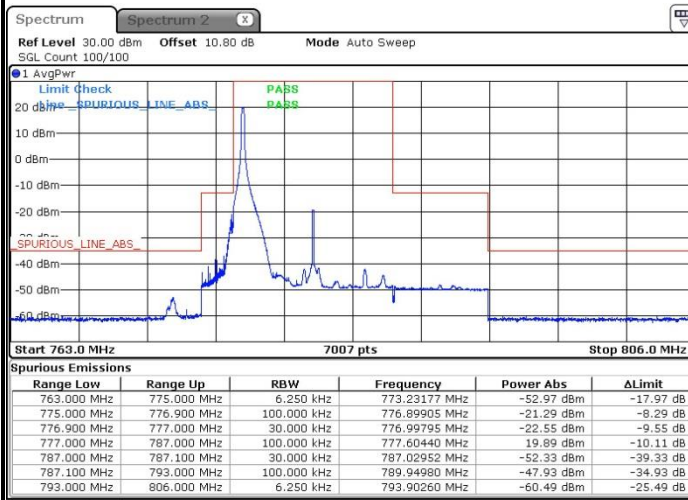


Date: 6.NOV.2016 20:16:16



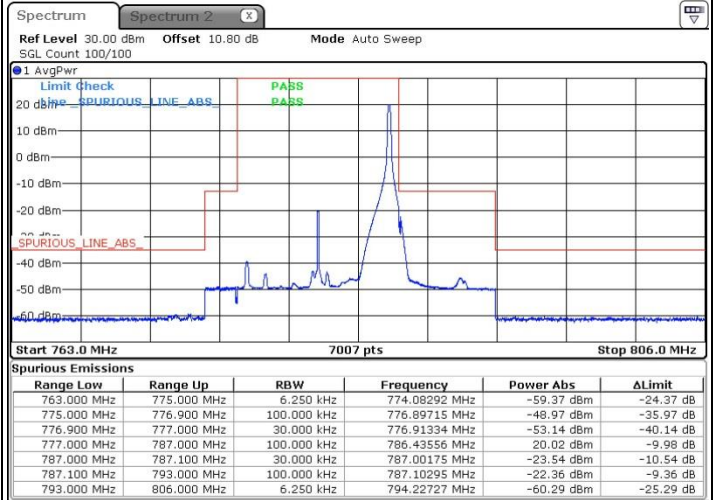
## IC LTE Band 13 / 10MHz / 16QAM

## Lowest Band Edge / 1 RB



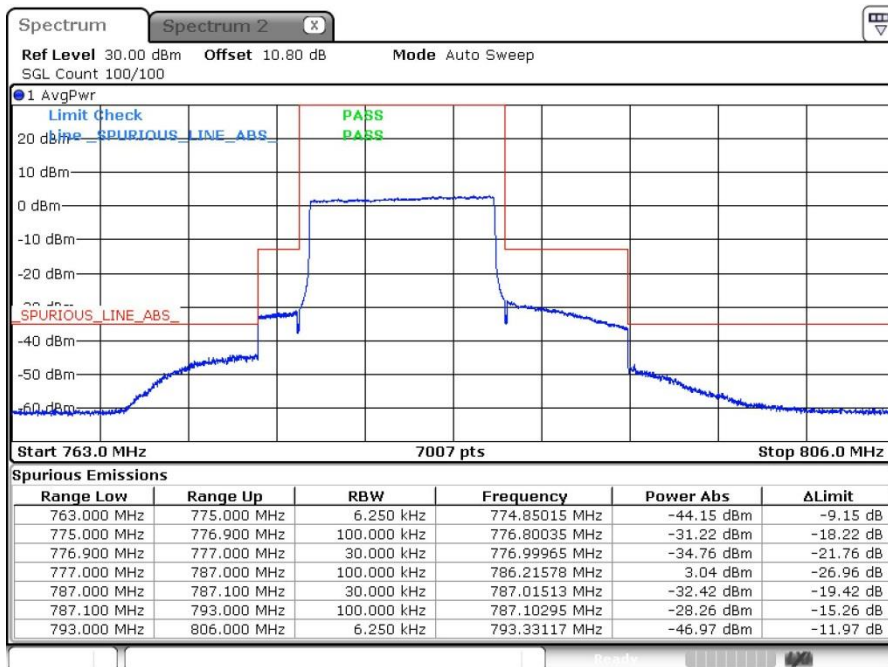
Date: 6.NOV.2016 20:19:35

## Highest Band Edge / 1 RB



Date: 6.NOV.2016 20:24:35

## Band Edge / Full RB



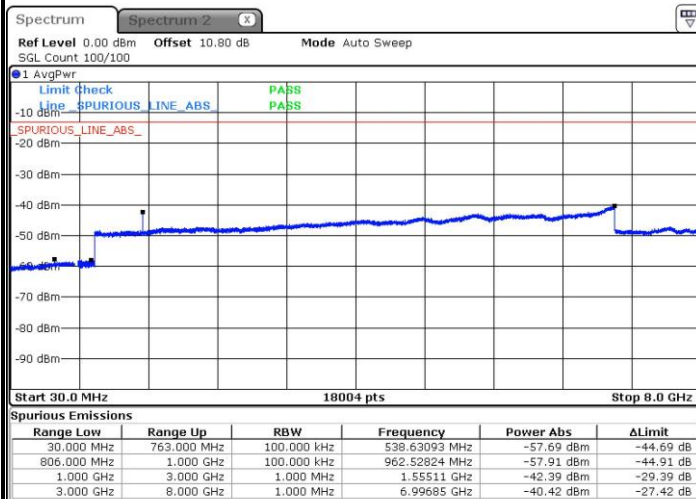
Date: 6.NOV.2016 20:17:56



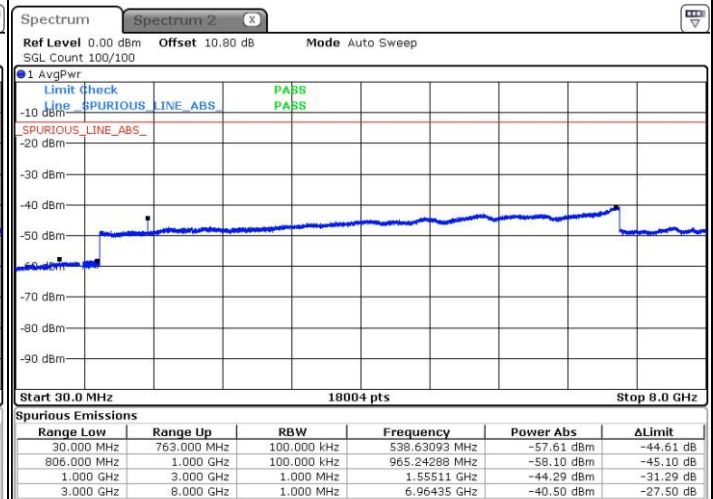
# Conducted Spurious Emission

## LTE Band 13 / 5MHz

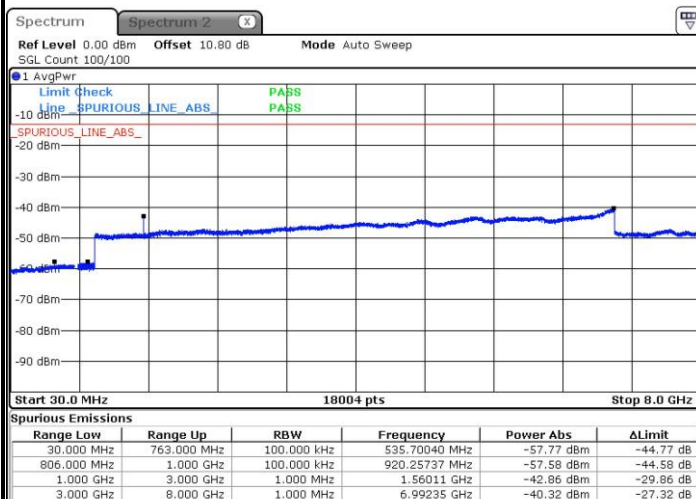
### Lowest Channel / QPSK



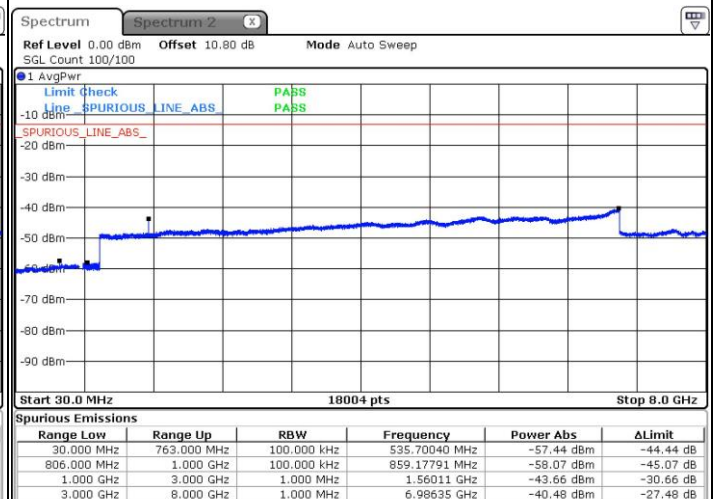
### Lowest Channel / 16QAM



### Middle Channel / QPSK



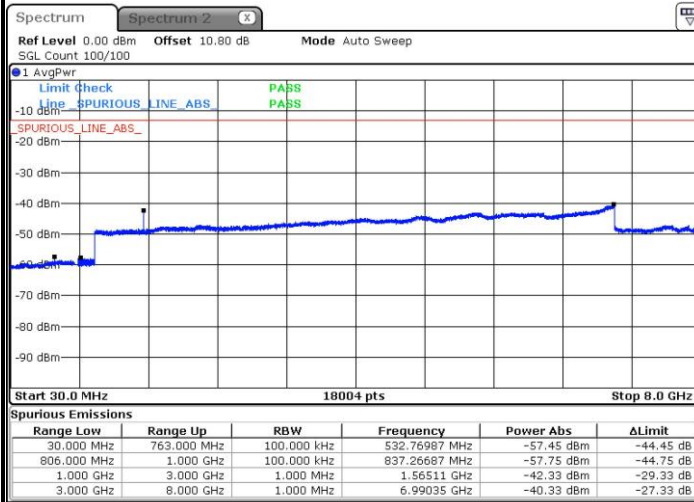
### Middle Channel / 16QAM





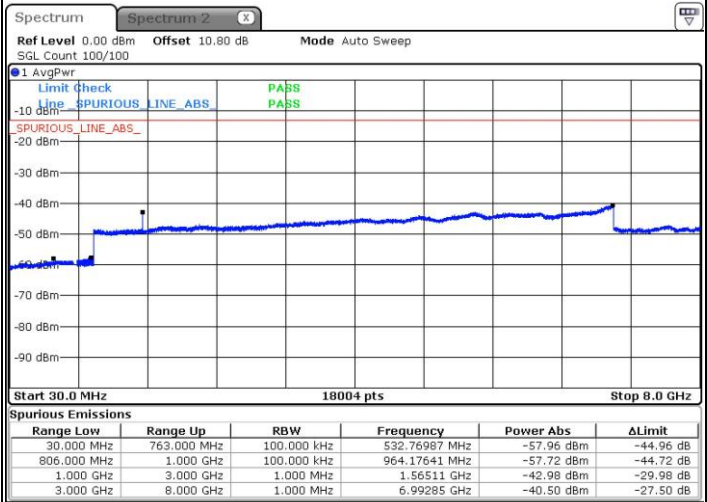
## LTE Band 13 / 5MHz

## Highest Channel / QPSK



Date: 6.NOV.2016 19:23:09

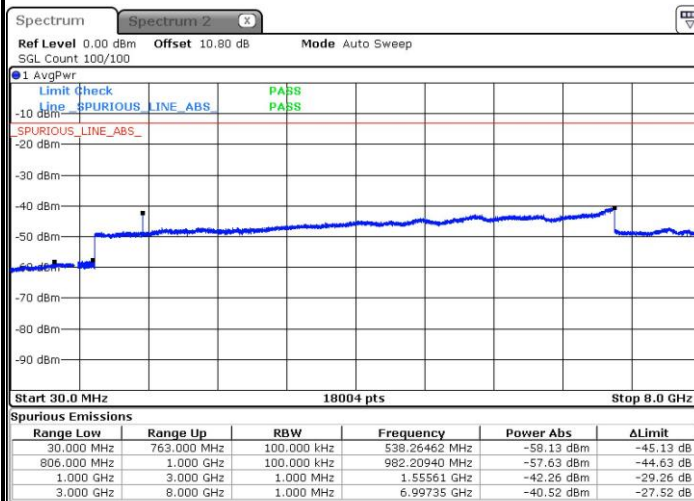
## Highest Channel / 16QAM



Date: 6.NOV.2016 19:24:06

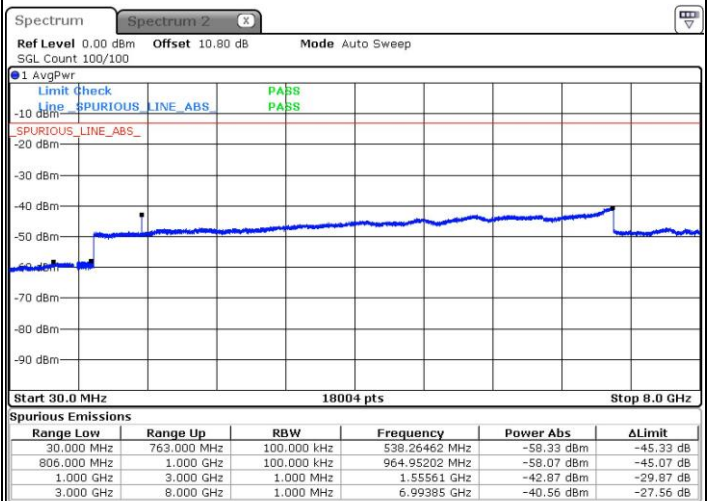
## LTE Band 13 / 10MHz

## Middle Channel / QPSK



Date: 6.NOV.2016 19:36:43

## Middle Channel / 16QAM



Date: 6.NOV.2016 19:35:47

## Frequency Stability

| Test Conditions  |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0013                              | PASS    |
| 40               | Normal Voltage    | 0.0005                              |         |
| 30               | Normal Voltage    | 0.0014                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0006                              |         |
| 0                | Normal Voltage    | 0.0205                              |         |
| -10              | Normal Voltage    | 0.0003                              |         |
| -20              | Normal Voltage    | 0.0003                              |         |
| -30              | Normal Voltage    | 0.0004                              |         |
| 20               | Maximum Voltage   | 0.0191                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0194                              |         |

**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 17

### Peak-to-Average Ratio

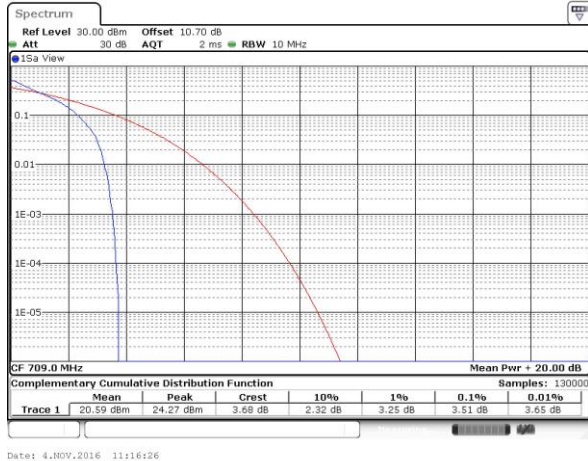
| Mode       | LTE Band 17 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.51                | 4.75    | 4.75  | 5.51    | PASS        |
| Middle CH  | 3.68                | 4.78    | 4.78  | 5.71    |             |
| Highest CH | 3.77                | 4.81    | 4.7   | 5.62    |             |



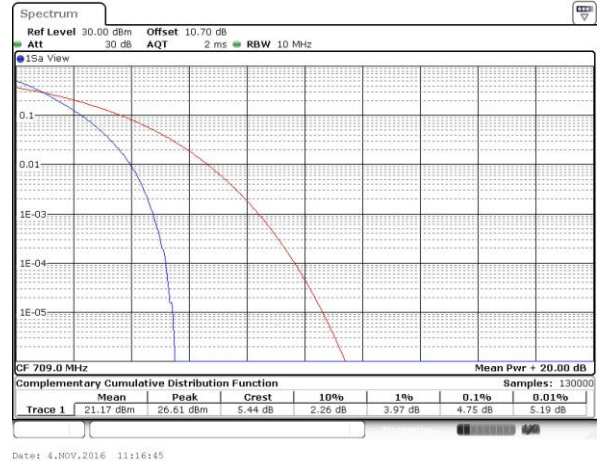


## LTE Band 17 / 10MHz / QPSK

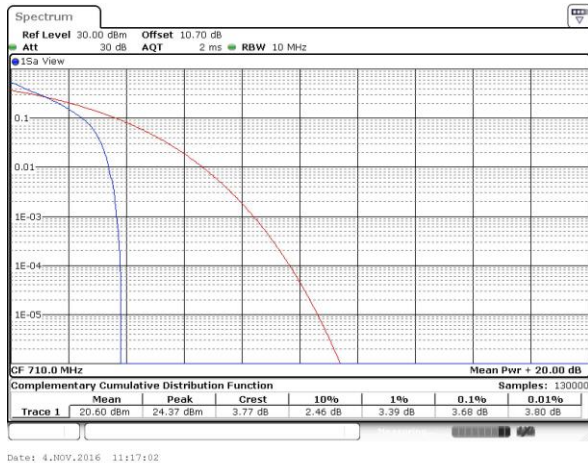
## Lowest Channel / 1RB



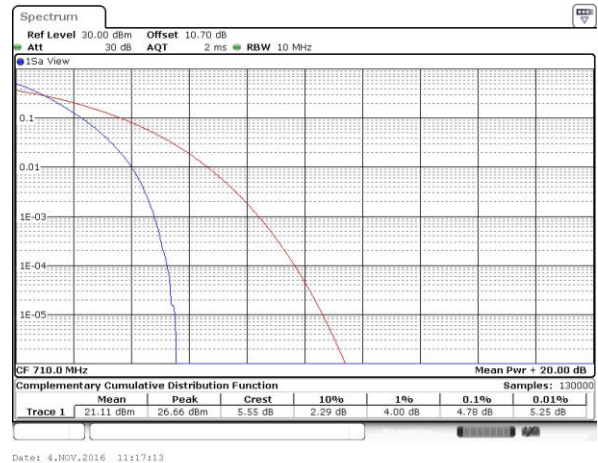
## Lowest Channel / Full RB



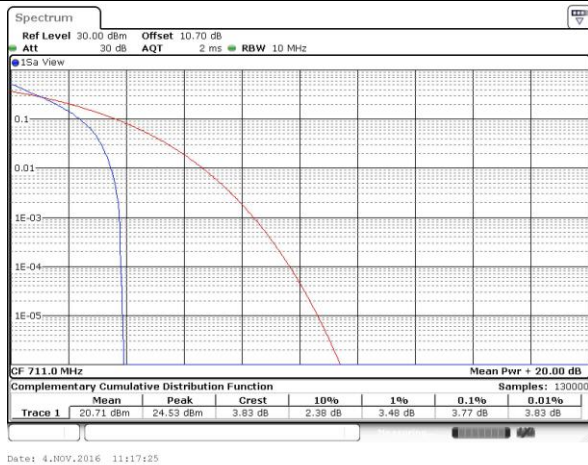
## Middle Channel/ 1RB



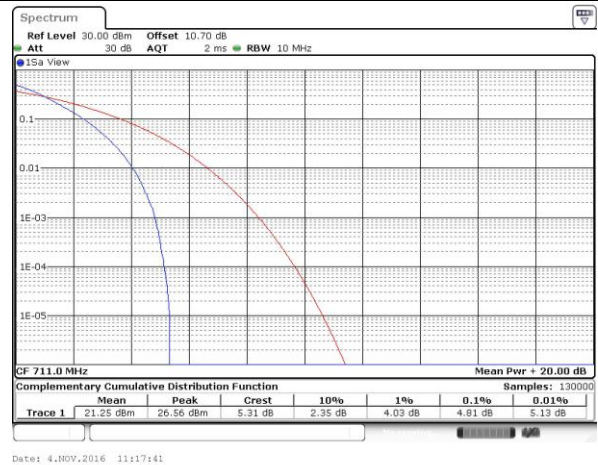
## Middle Channel / Full RB



## Highest Channel/ 1RB



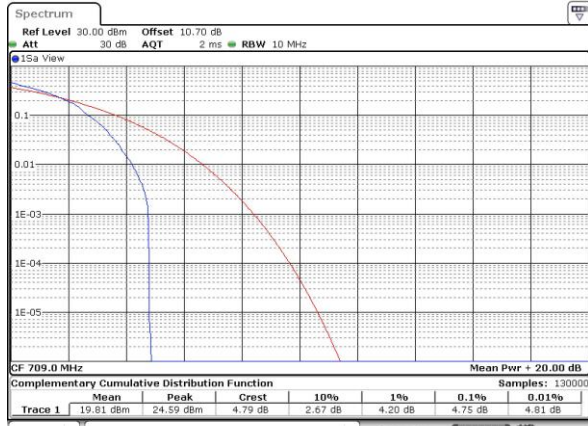
## Highest Channel / Full RB



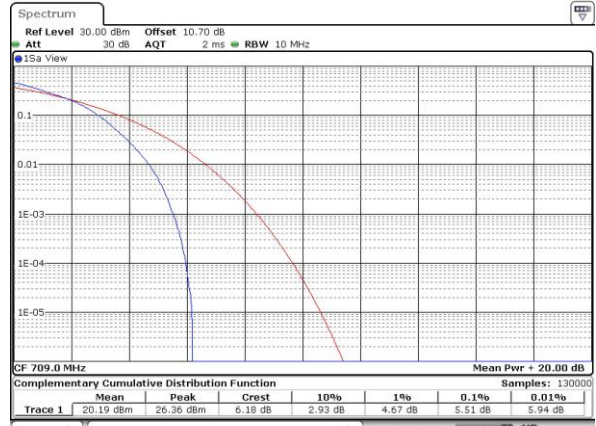


## LTE Band 17 / 10MHz / 16QAM

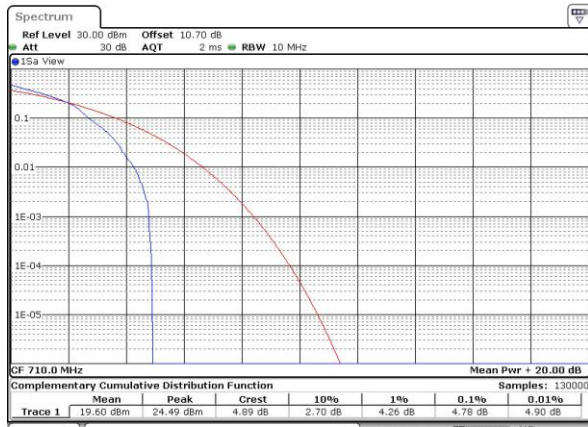
## Lowest Channel / 1RB



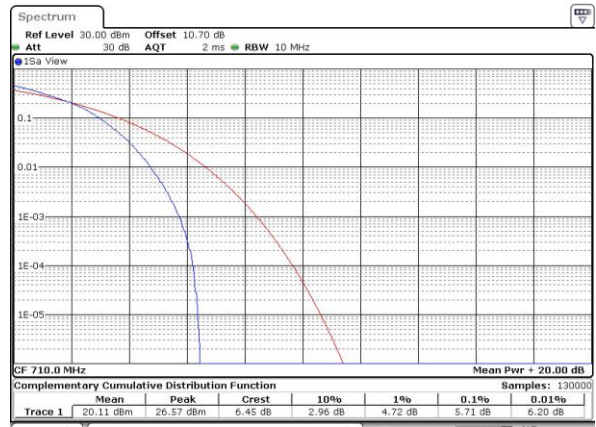
## Lowest Channel / Full RB



## Middle Channel/ 1RB



## Middle Channel / Full RB



## Highest Channel/ 1RB



## Highest Channel / Full RB







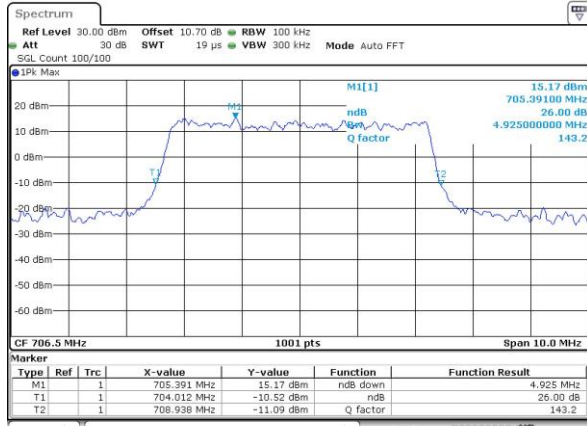
## 26dB Bandwidth

| Mode       | LTE Band 17 : 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  | -                          | -     | -    | -     | 4.93 | 4.90  | 9.81  | 10.01 | -     | -     | -     | -     |
| Middle CH  | -                          | -     | -    | -     | 4.96 | 4.86  | 9.93  | 9.91  | -     | -     | -     | -     |
| Highest CH | -                          | -     | -    | -     | 4.92 | 5.01  | 9.83  | 9.71  | -     | -     | -     | -     |



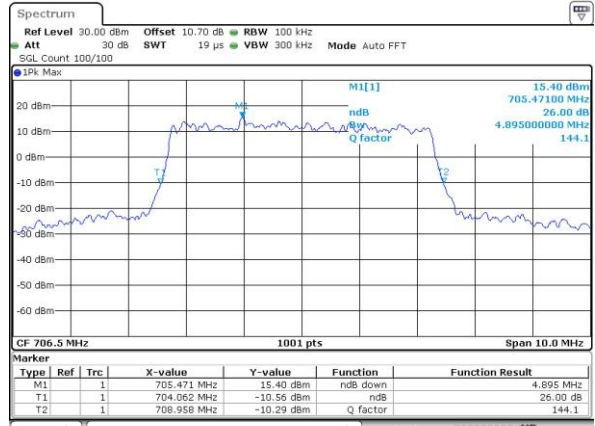
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



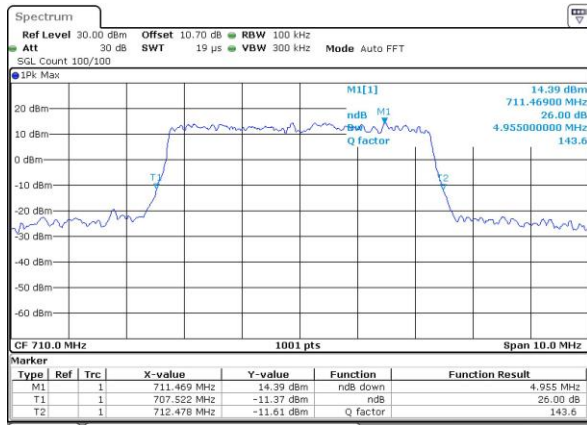
Date: 4.NOV.2016 10:27:36

## Lowest Channel / 5MHz / 16QAM



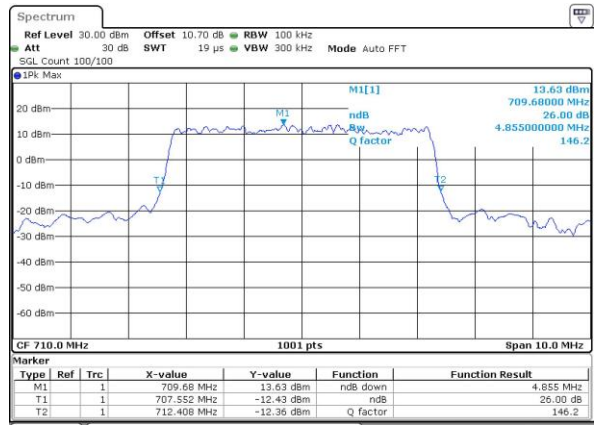
Date: 4.NOV.2016 10:27:48

## Middle Channel / 5MHz / QPSK



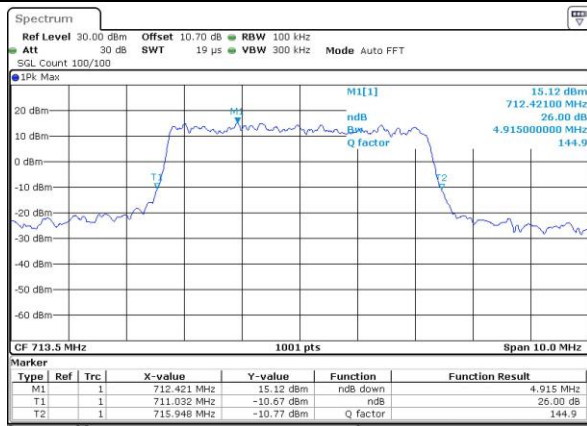
Date: 4.NOV.2016 10:34:58

## Middle Channel / 5MHz / 16QAM



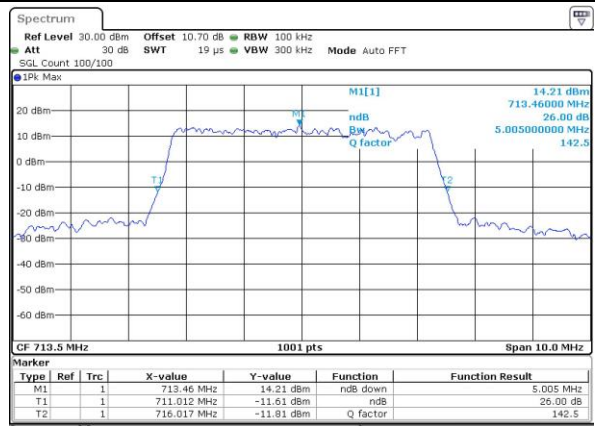
Date: 4.NOV.2016 10:35:09

## Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 10:37:41

## Highest Channel / 5MHz / 16QAM

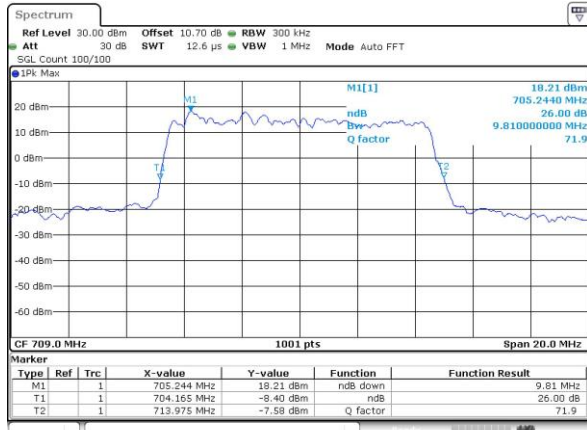


Date: 4.NOV.2016 10:37:53

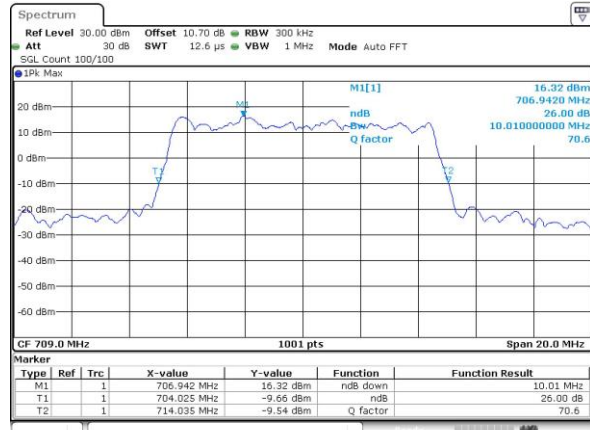


## LTE Band 17

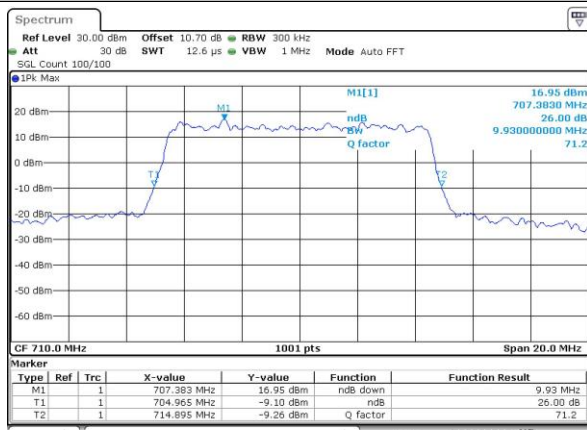
## Lowest Channel / 10MHz / QPSK



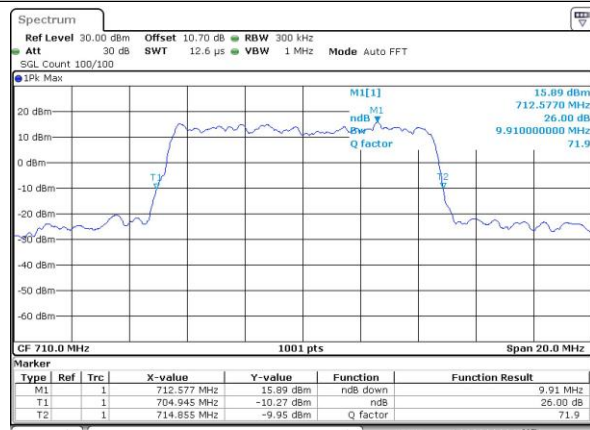
## Lowest Channel / 10MHz / 16QAM



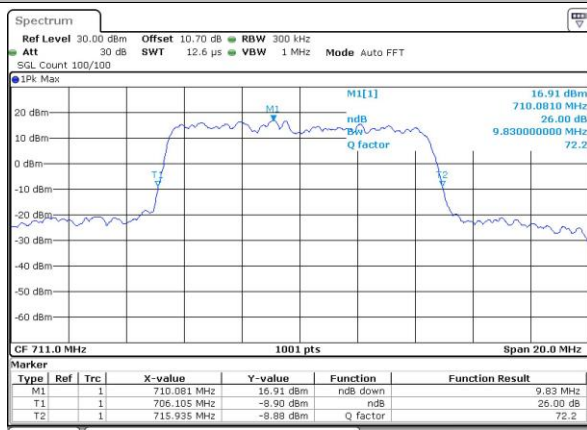
## Middle Channel / 10MHz / QPSK



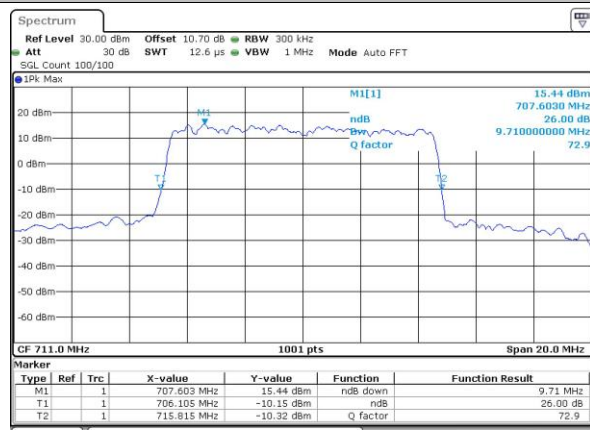
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM





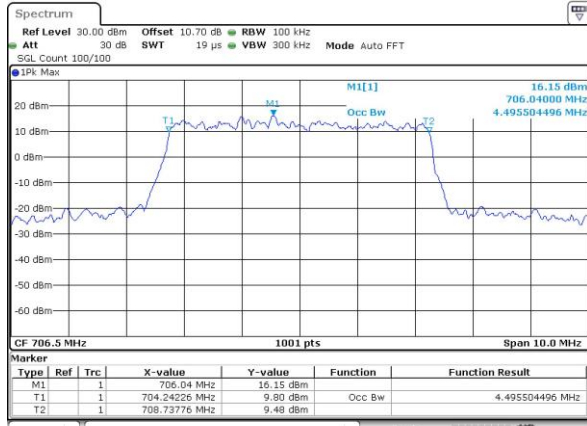
## Occupied Bandwidth

| Mode       | LTE Band 17 : 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  | 4.49  | 9.05  | 9.07  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.48 | 4.52  | 9.05  | 9.05  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.51 | 4.54  | 9.01  | 8.99  | -     | -     | -     | -     |



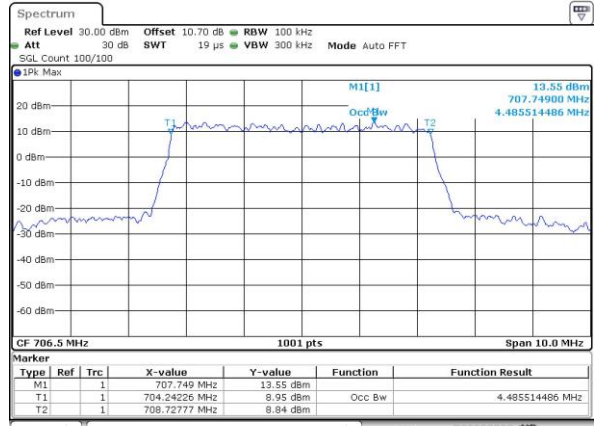
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



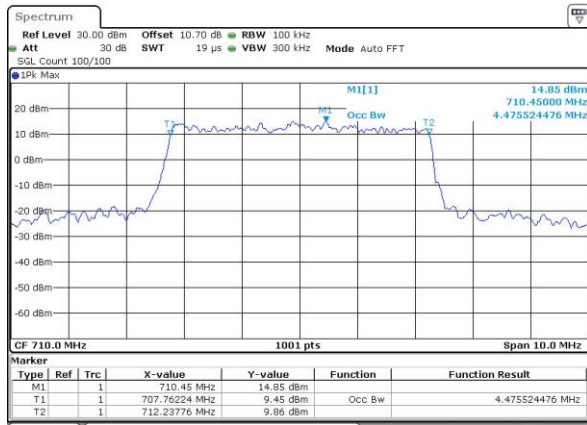
Date: 4.NOV.2016 10:27:10

## Lowest Channel / 5MHz / 16QAM



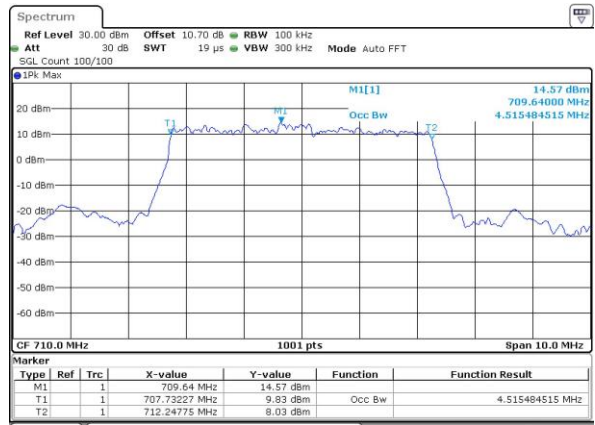
Date: 4.NOV.2016 10:27:24

## Middle Channel / 5MHz / QPSK



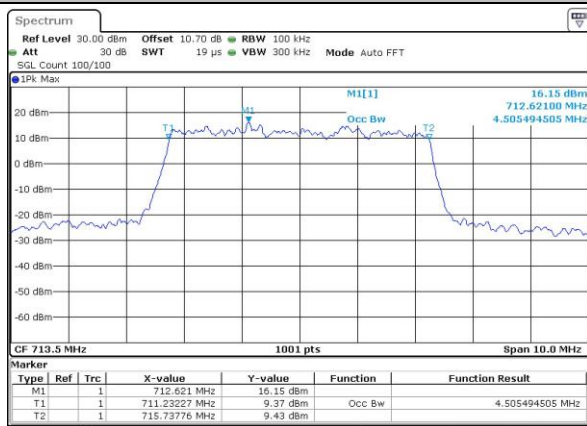
Date: 4.NOV.2016 10:34:34

## Middle Channel / 5MHz / 16QAM



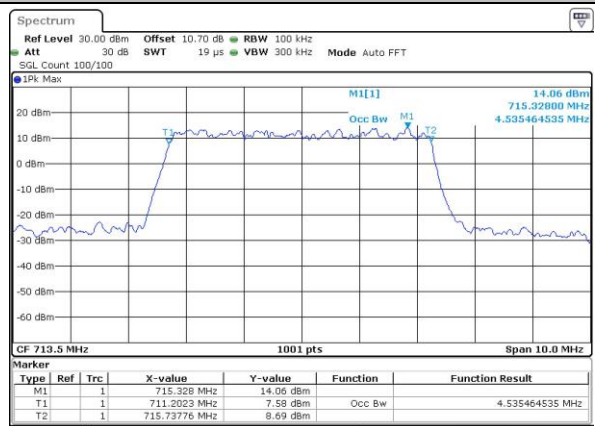
Date: 4.NOV.2016 10:34:46

## Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 10:37:18

## Highest Channel / 5MHz / 16QAM



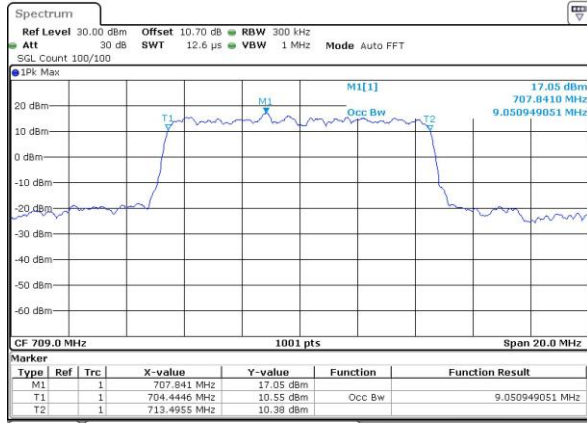
Date: 4.NOV.2016 10:37:30





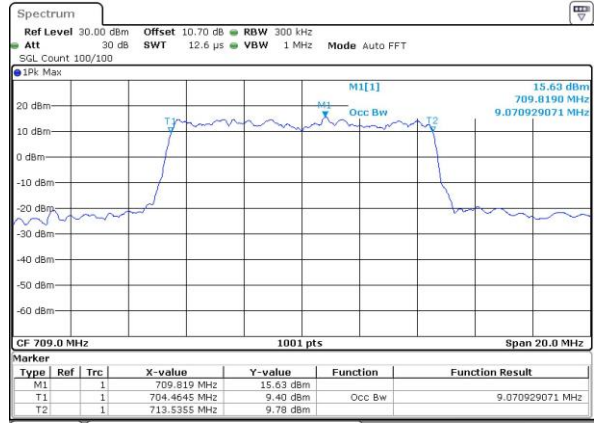
## LTE Band 17

## Lowest Channel / 10MHz / QPSK



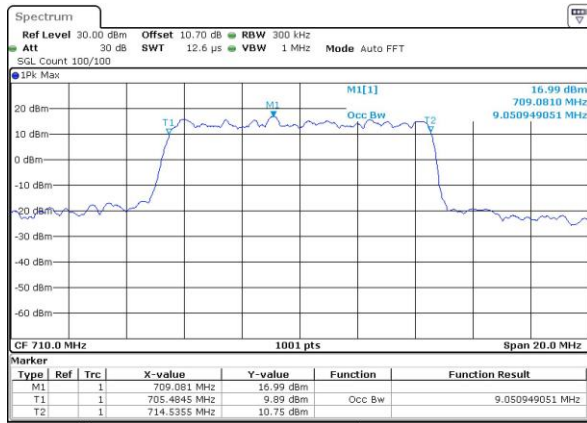
Date: 4.NOV.2016 10:44:39

## Lowest Channel / 10MHz / 16QAM



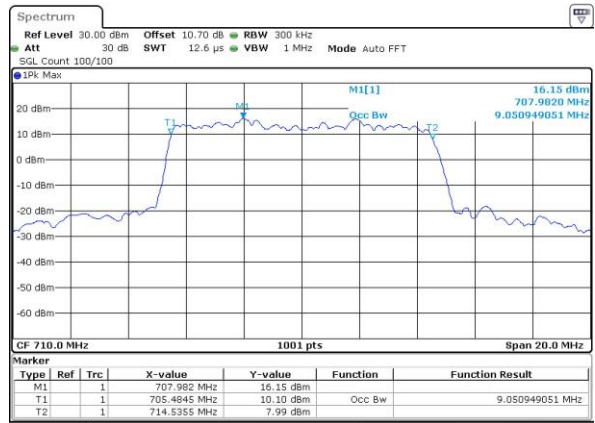
Date: 4.NOV.2016 10:44:51

## Middle Channel / 10MHz / QPSK



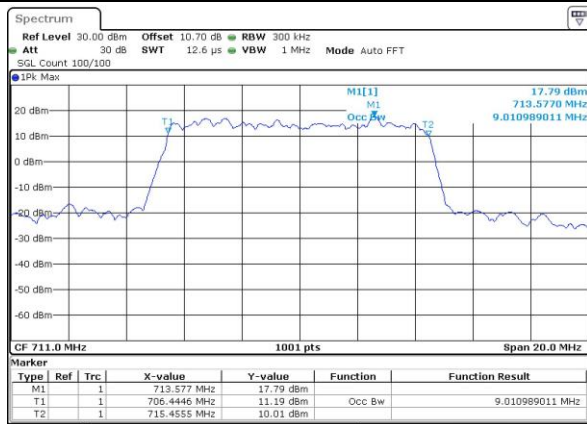
Date: 4.NOV.2016 10:52:00

## Middle Channel / 10MHz / 16QAM



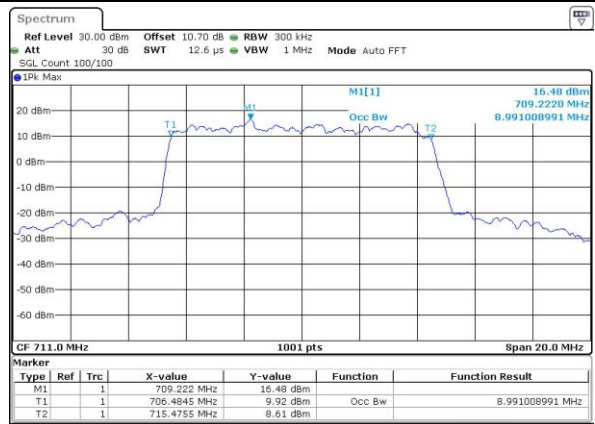
Date: 4.NOV.2016 10:52:12

## Highest Channel / 10MHz / QPSK

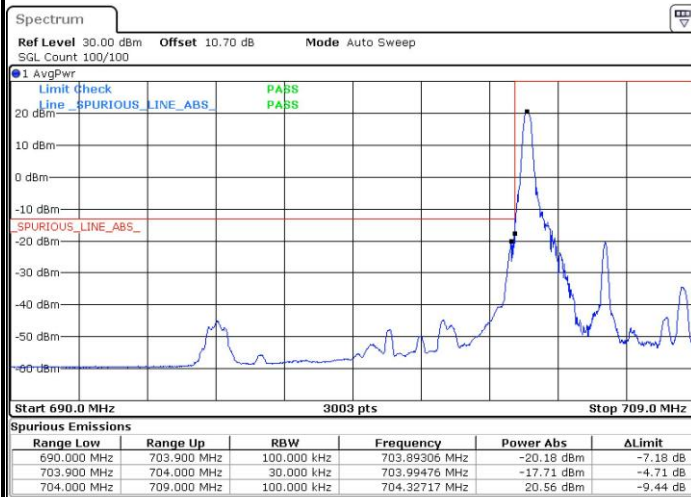
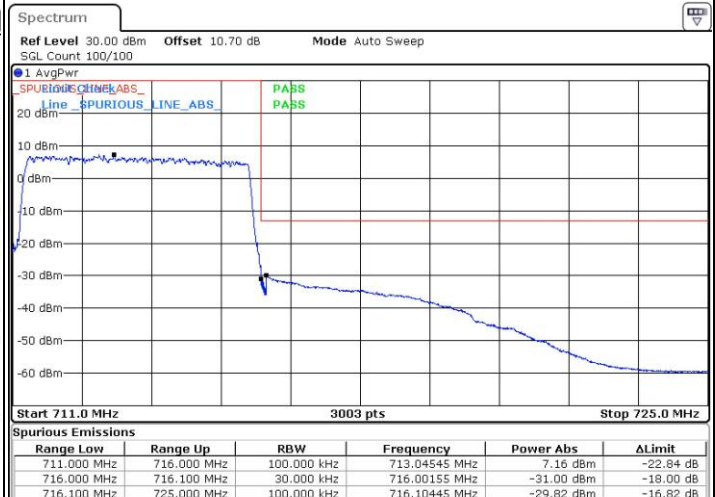


Date: 4.NOV.2016 10:54:44

## Highest Channel / 10MHz / 16QAM



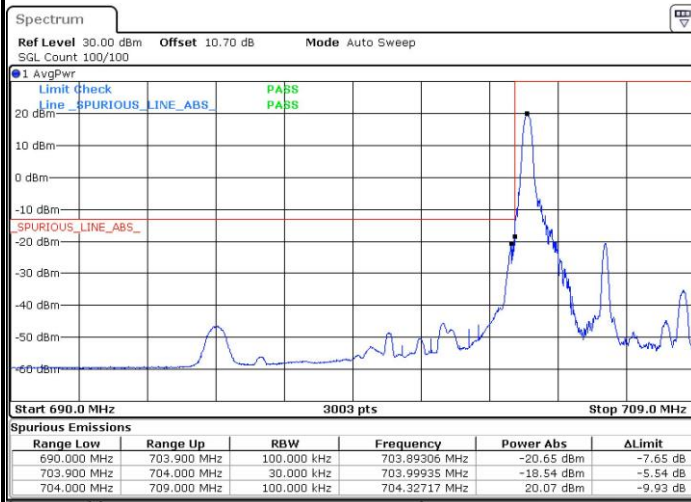
Date: 4.NOV.2016 10:54:56

**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



## LTE Band 17 / 5MHz / 16QAM

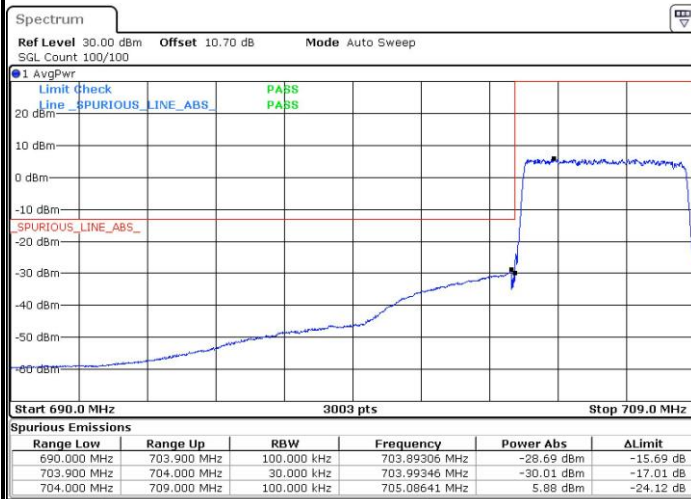
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



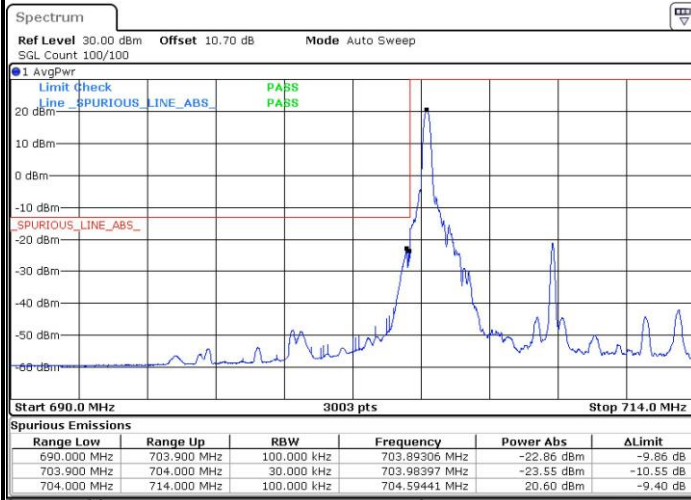
## Highest Band Edge / Full RB



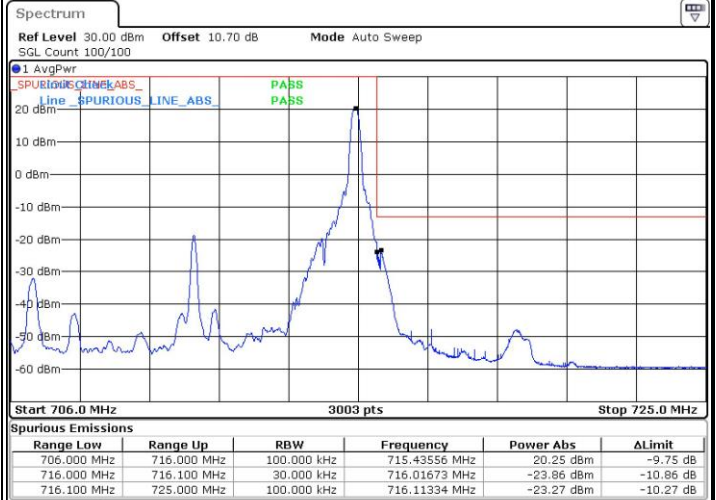


## LTE Band 17 / 10MHz / QPSK

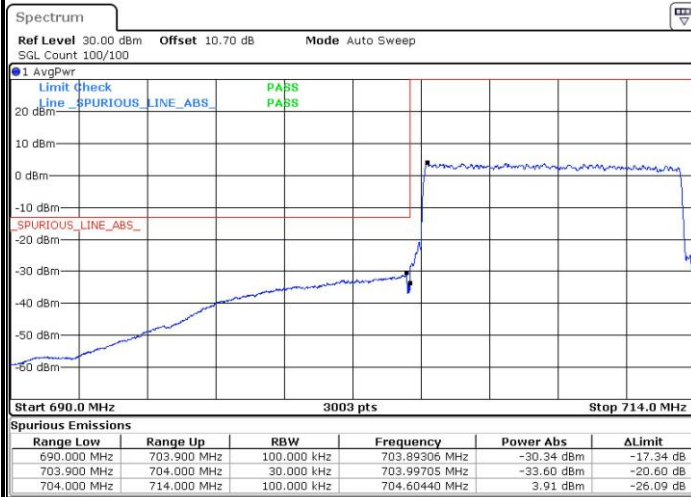
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

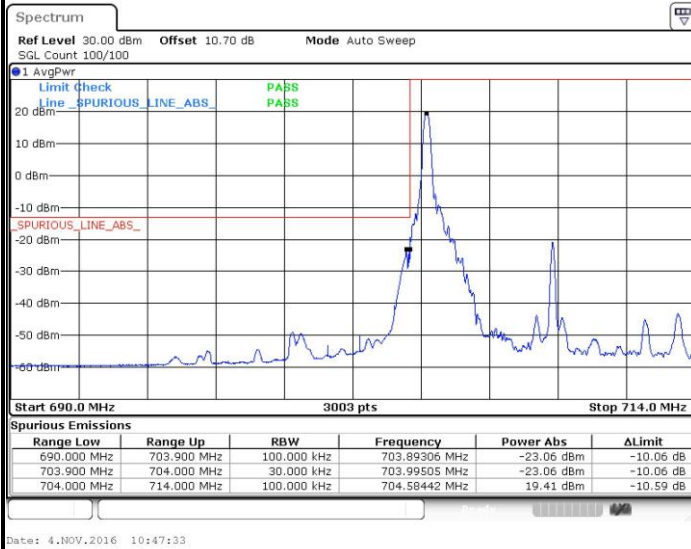




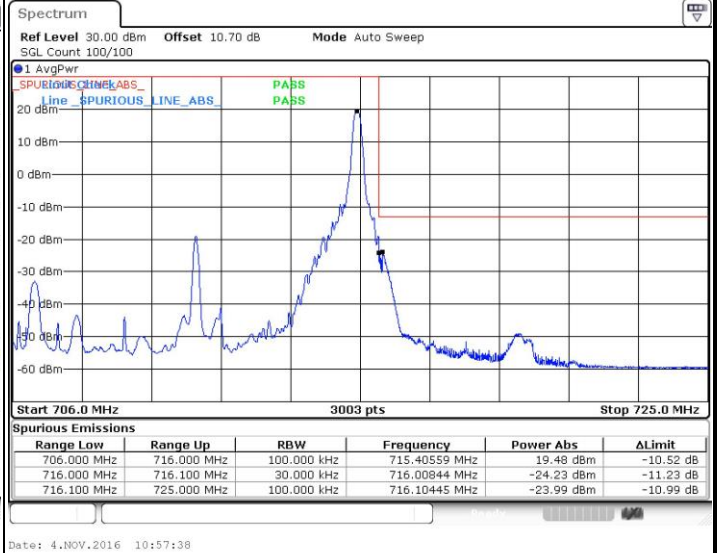


## LTE Band 17 / 10MHz / 16QAM

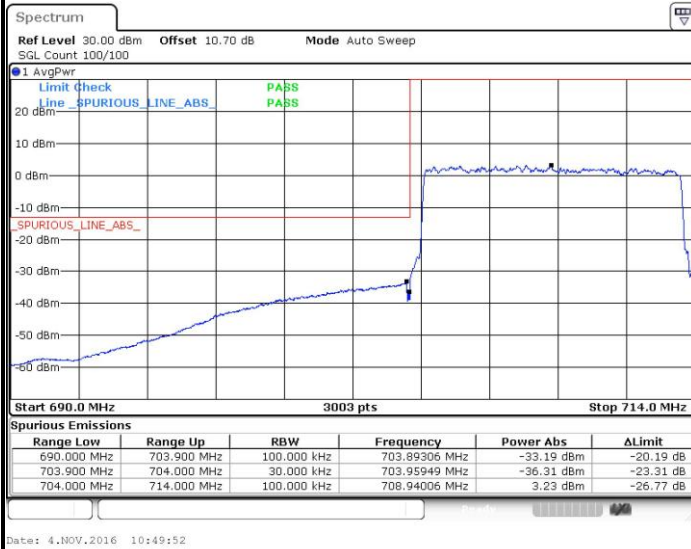
## Lowest Band Edge / 1 RB



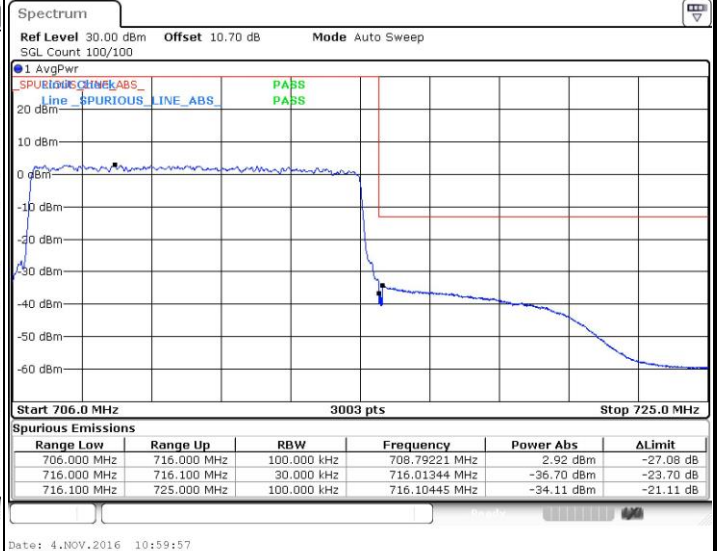
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

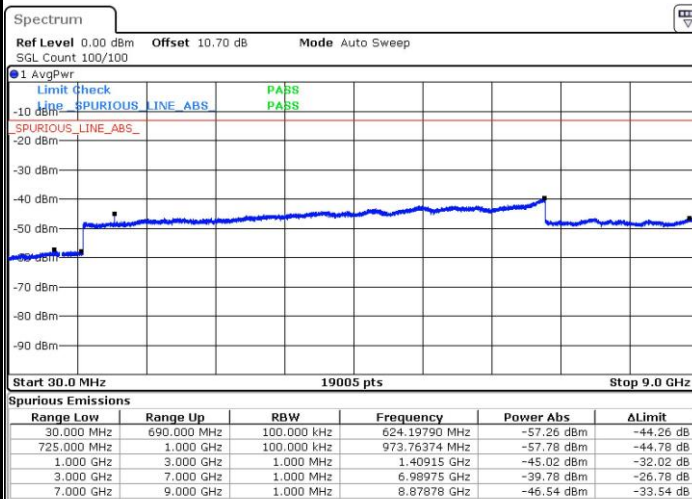




# Conducted Spurious Emission

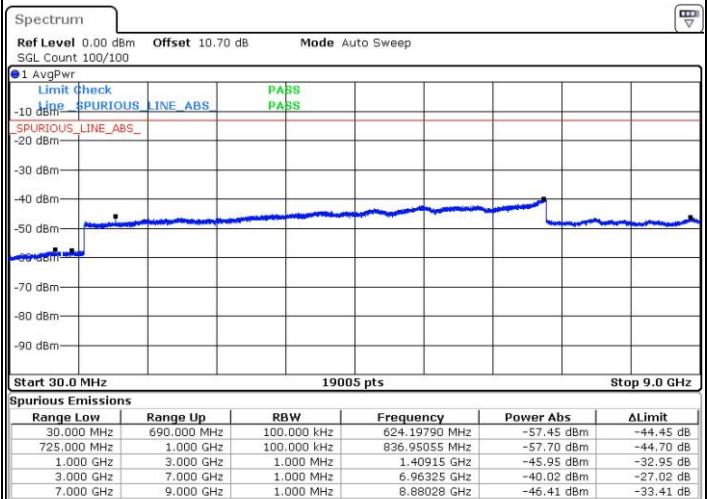
## LTE Band 17 / 5MHz

### Lowest Channel / QPSK



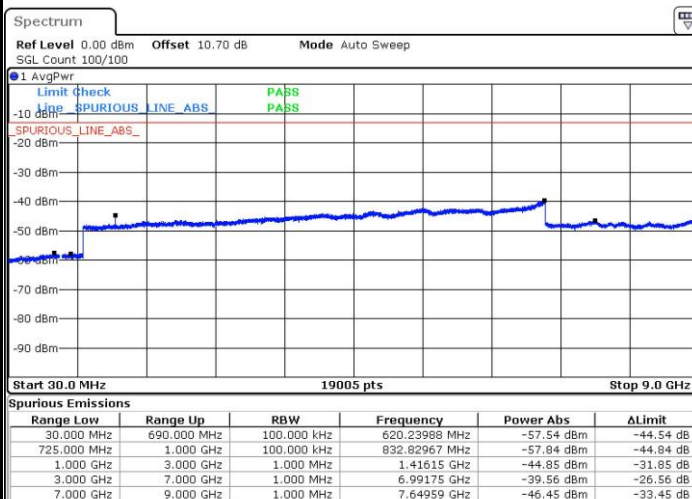
Date: 4.NOV.2016 10:33:23

### Lowest Channel / 16QAM



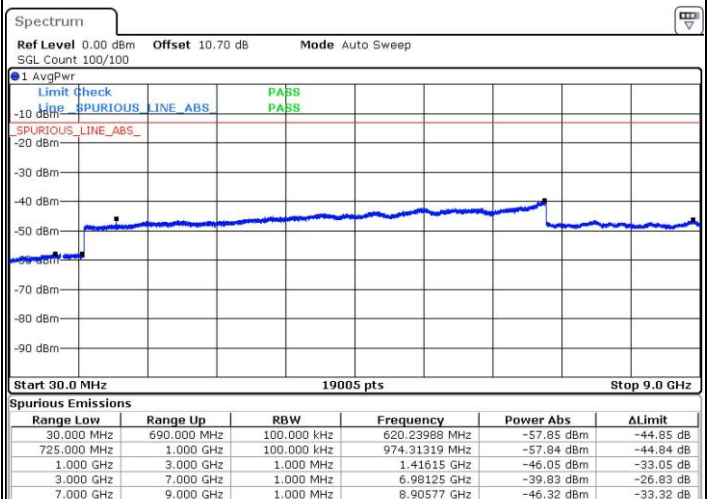
Date: 4.NOV.2016 10:34:22

### Middle Channel / QPSK



Date: 4.NOV.2016 10:36:07

### Middle Channel / 16QAM



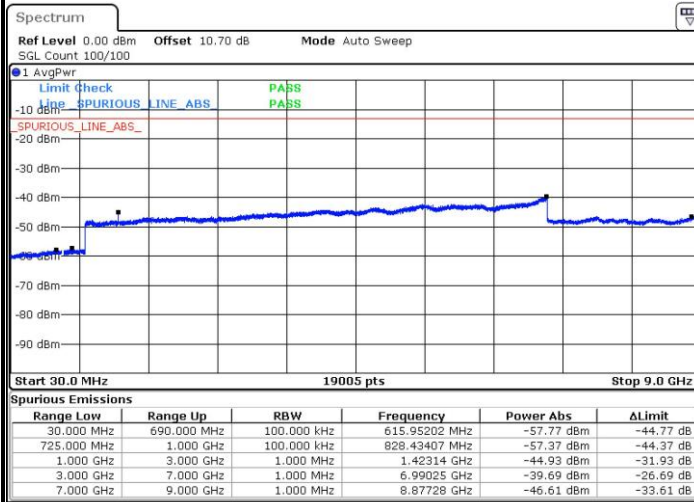
Date: 4.NOV.2016 10:37:05





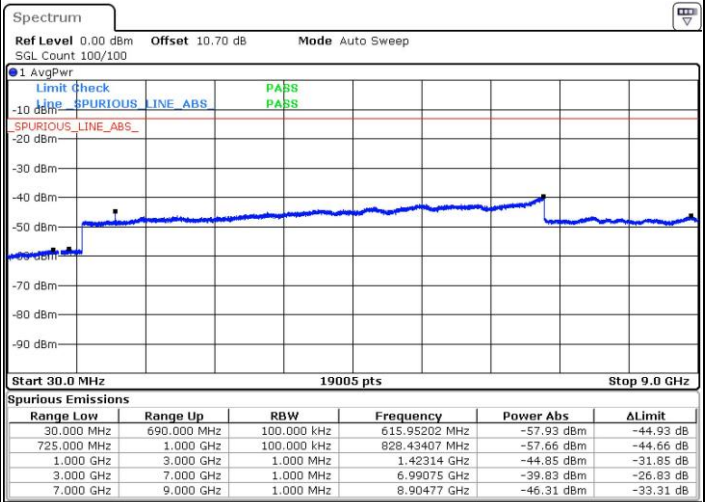
## LTE Band 17 / 5MHz

## Highest Channel / QPSK



Date: 4.NOV.2016 10:43:28

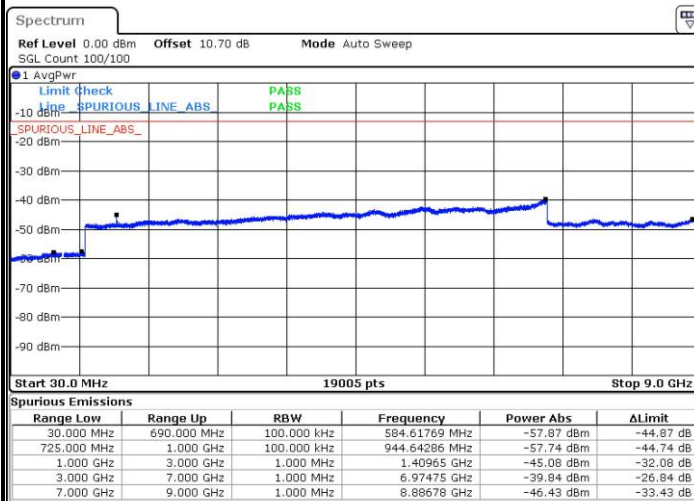
## Highest Channel / 16QAM



Date: 4.NOV.2016 10:44:26

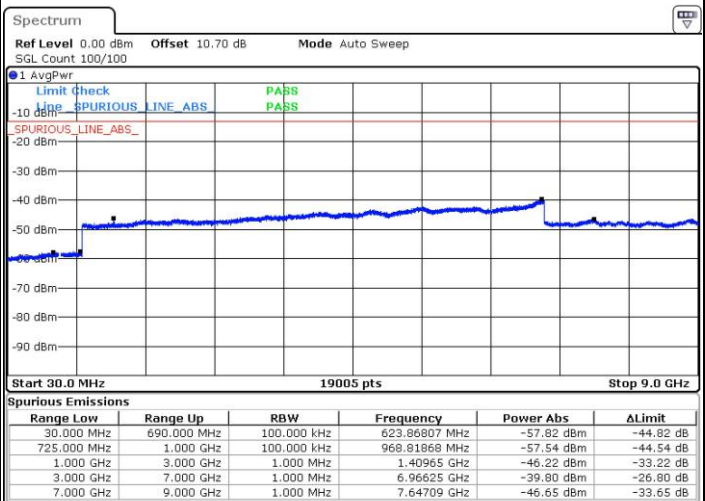
## LTE Band 17 / 10MHz

## Lowest Channel / QPSK



Date: 4.NOV.2016 10:50:49

## Lowest Channel / 16QAM

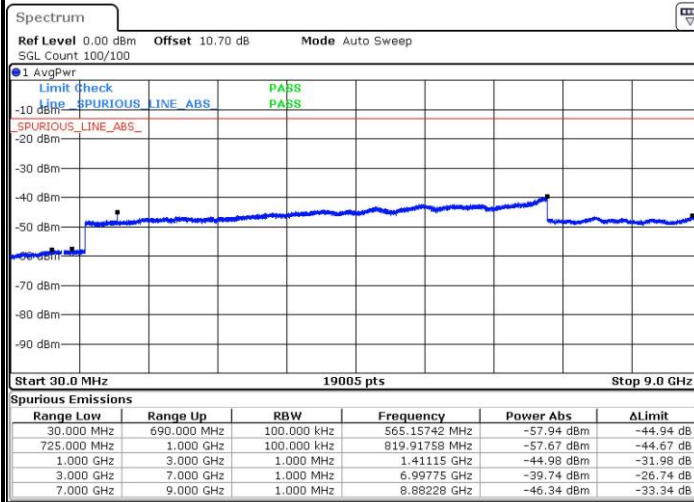


Date: 4.NOV.2016 10:51:48



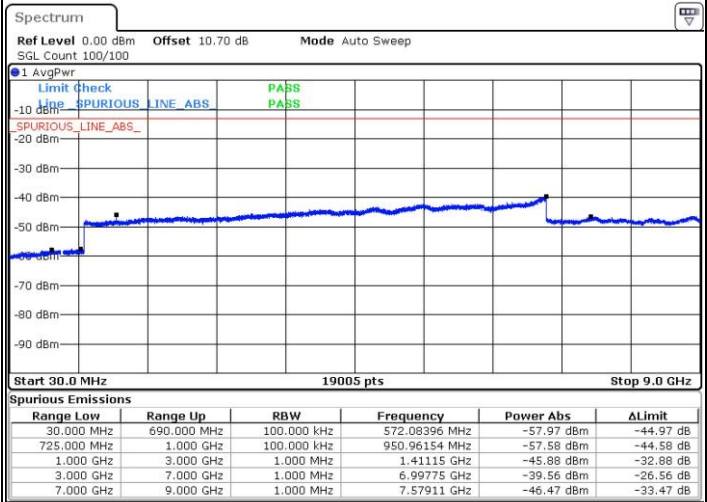
## LTE Band 17 / 10MHz

## Middle Channel / QPSK



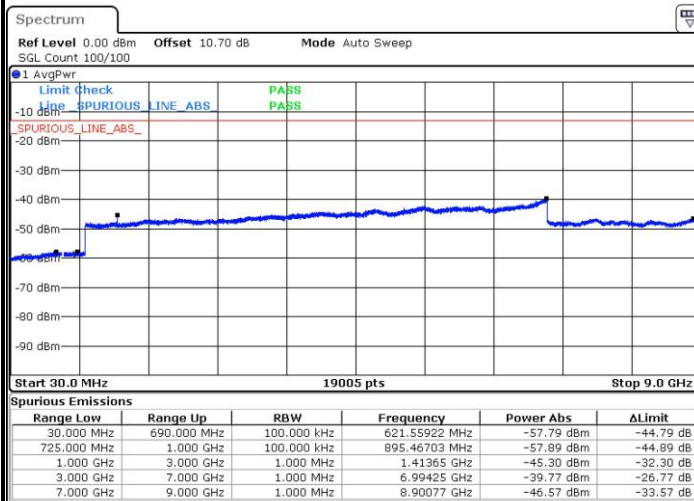
Date: 4.NOV.2016 10:53:33

## Middle Channel / 16QAM



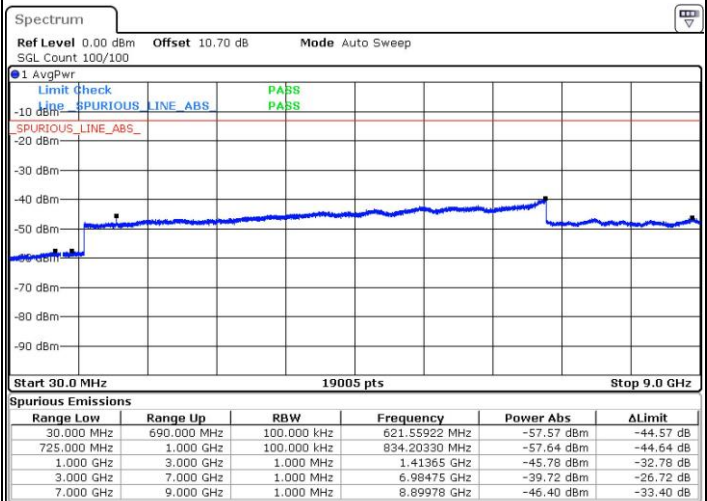
Date: 4.NOV.2016 10:54:31

## Highest Channel / QPSK



Date: 4.NOV.2016 11:00:54

## Highest Channel / 16QAM



Date: 4.NOV.2016 11:01:53

## Frequency Stability

| Test Conditions  |                   | LTE Band 17 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0001                              | PASS    |
| 40               | Normal Voltage    | 0.0221                              |         |
| 30               | Normal Voltage    | 0.0027                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0210                              |         |
| 0                | Normal Voltage    | 0.0028                              |         |
| -10              | Normal Voltage    | 0.0034                              |         |
| -20              | Normal Voltage    | 0.0201                              |         |
| -30              | Normal Voltage    | 0.0011                              |         |
| 20               | Maximum Voltage   | 0.0223                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0218                              |         |

**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 66

### Peak-to-Average Ratio

| Mode       | LTE Band 66 / 20MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.36                | 4.52    | 4.14  | 5.36    | PASS        |
| Middle CH  | 4.03                | 4.55    | 4.64  | 5.45    |             |
| Highest CH | 3.28                | 4.55    | 4.49  | 5.45    |             |