



## LTE Band 5 / 1.4MHz / 16QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



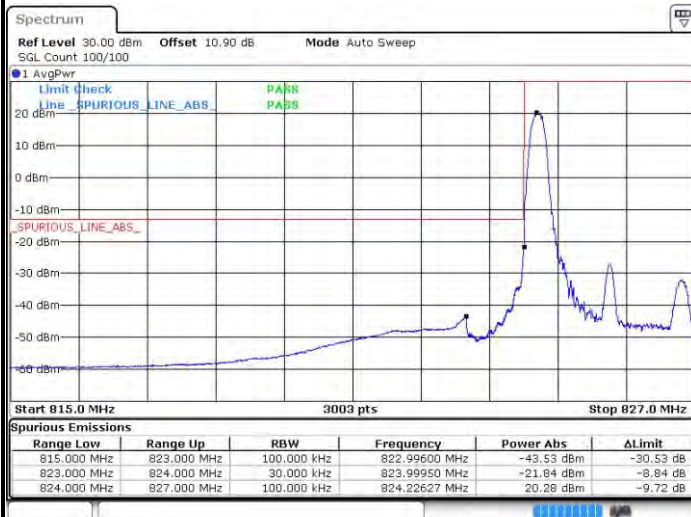
## Highest Band Edge / Full RB



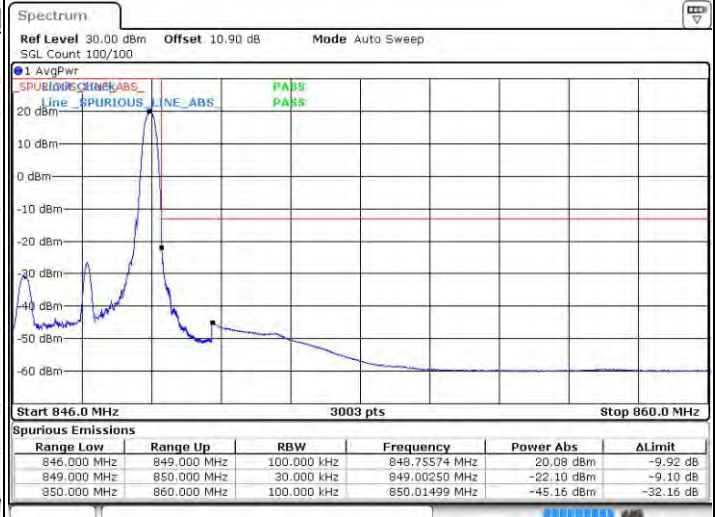


## LTE Band 5 / 3MHz / QPSK

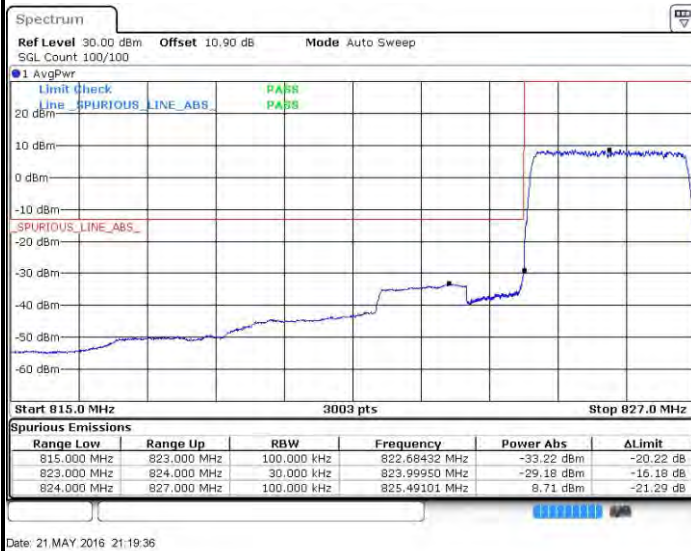
## Lowest Band Edge / 1RB



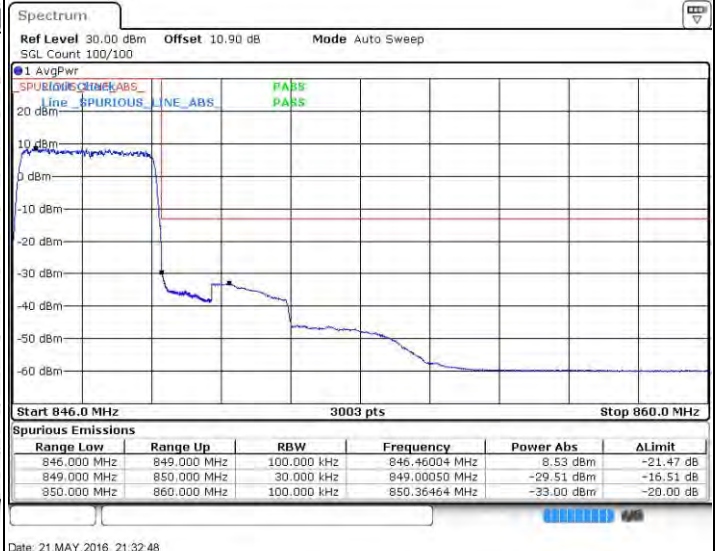
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



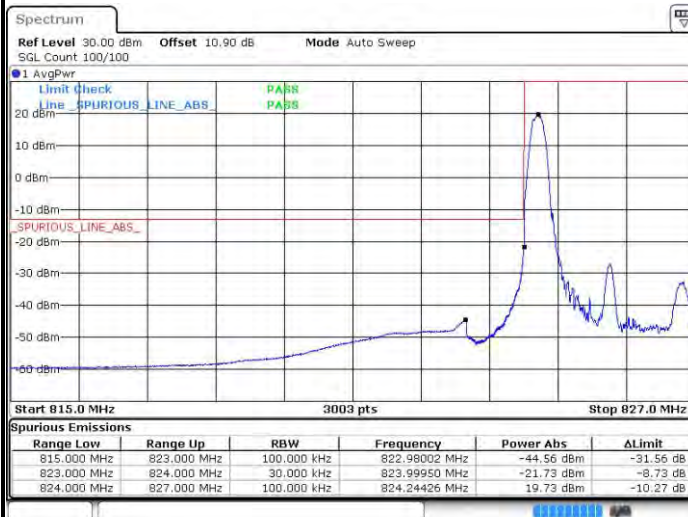
## Highest Band Edge / Full RB



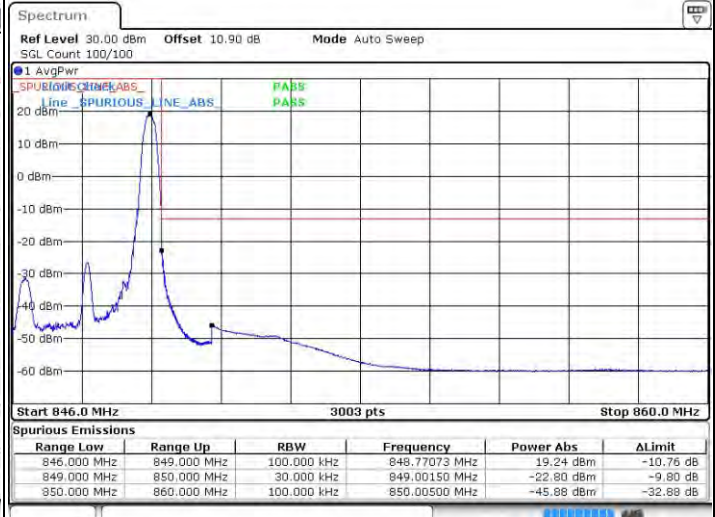


## LTE Band 5 / 3MHz / 16QAM

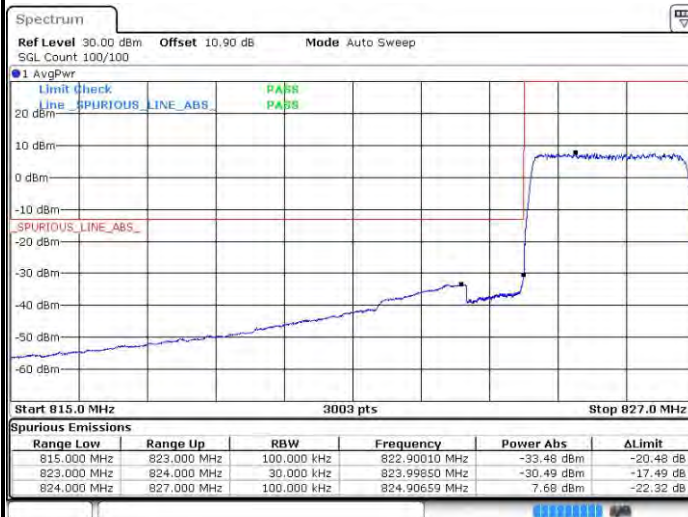
## Lowest Band Edge / 1 RB



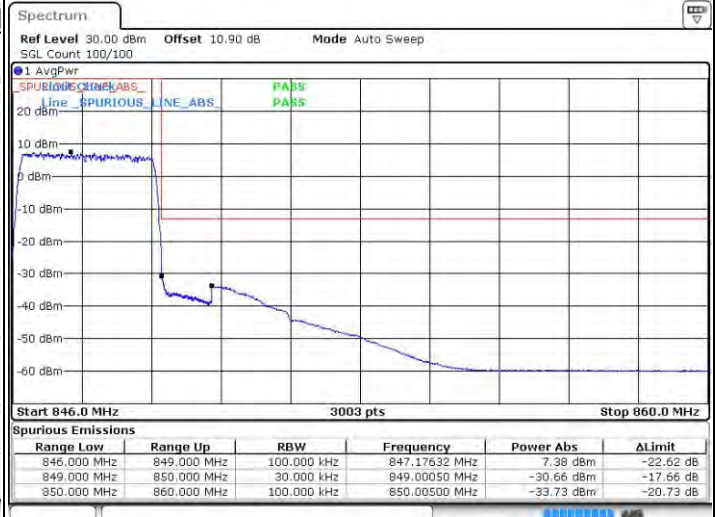
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



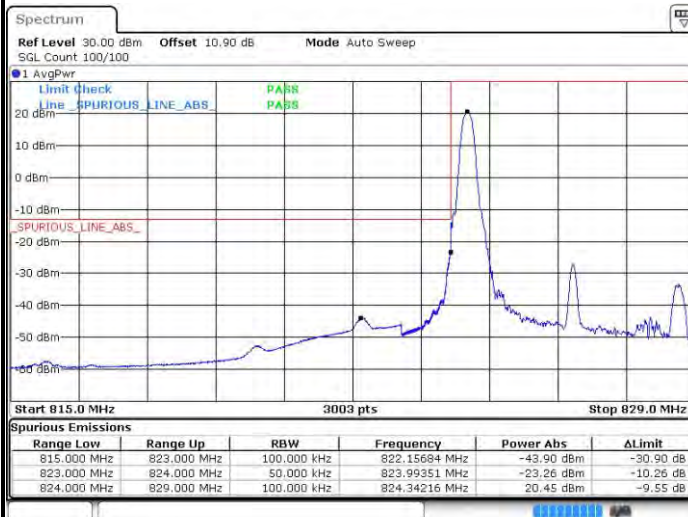
## Highest Band Edge / Full RB



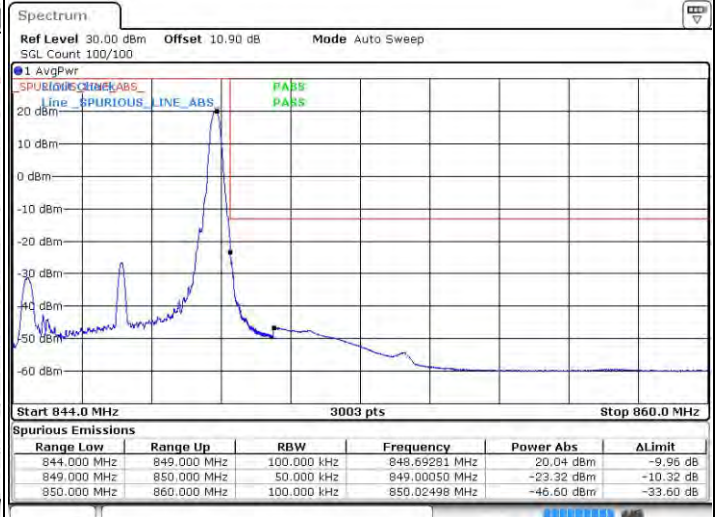


## LTE Band 5 / 5MHz / QPSK

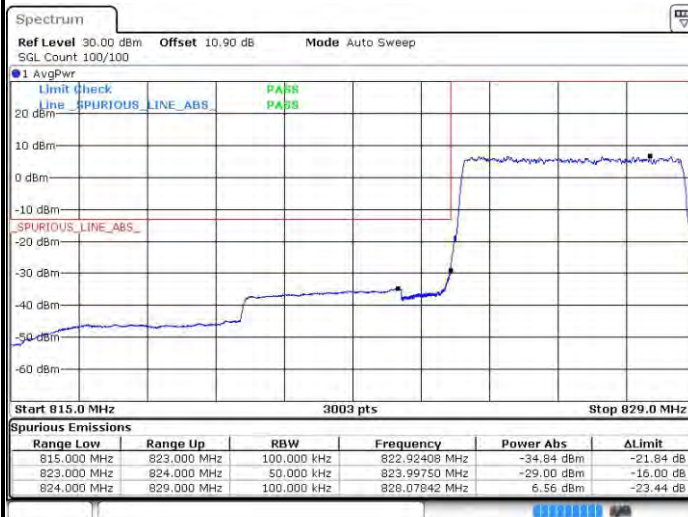
## Lowest Band Edge / 1 RB



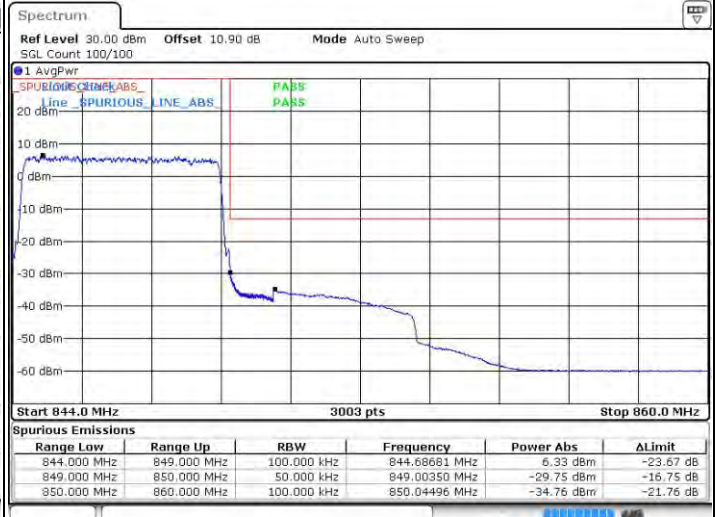
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



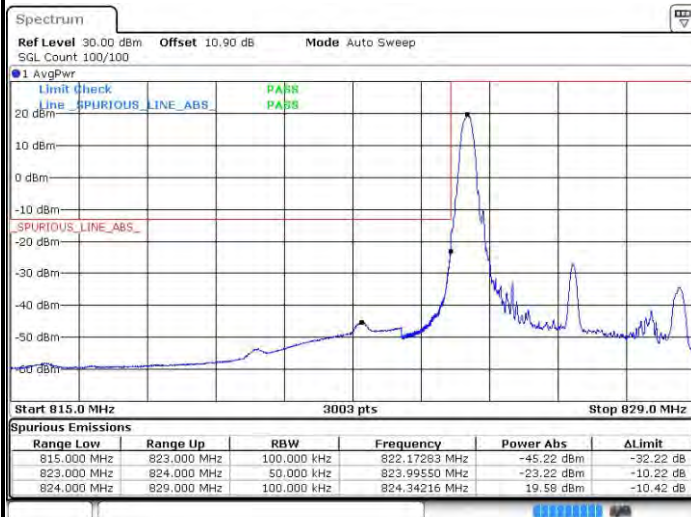
## Highest Band Edge / Full RB



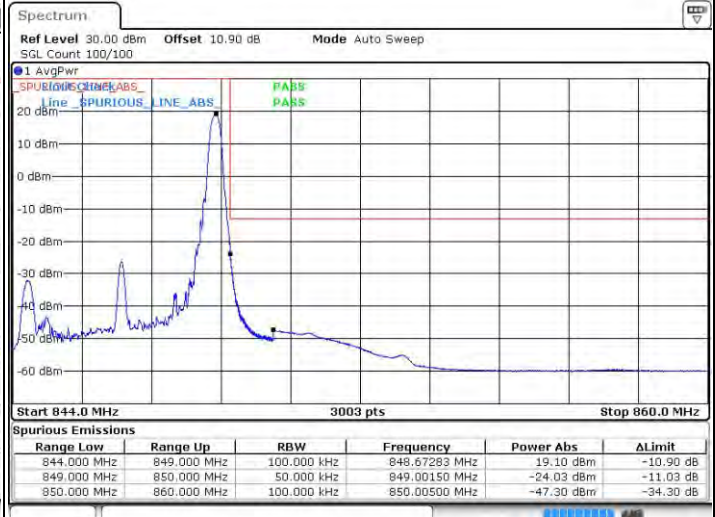


## LTE Band 5 / 5MHz / 16QAM

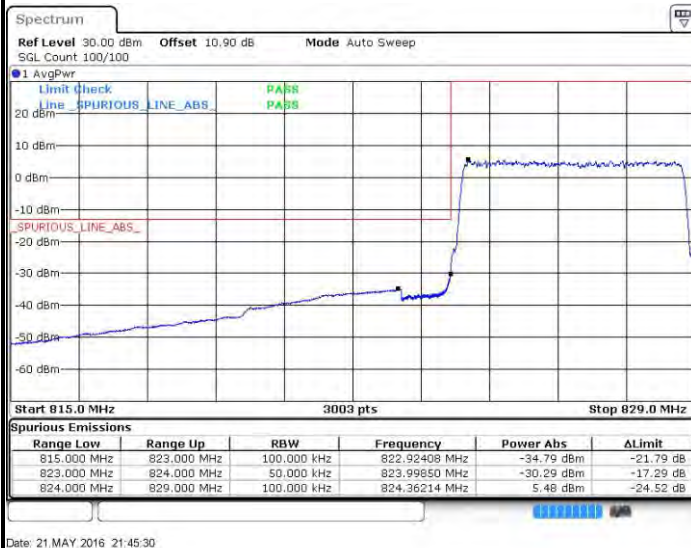
## Lowest Band Edge / 1RB



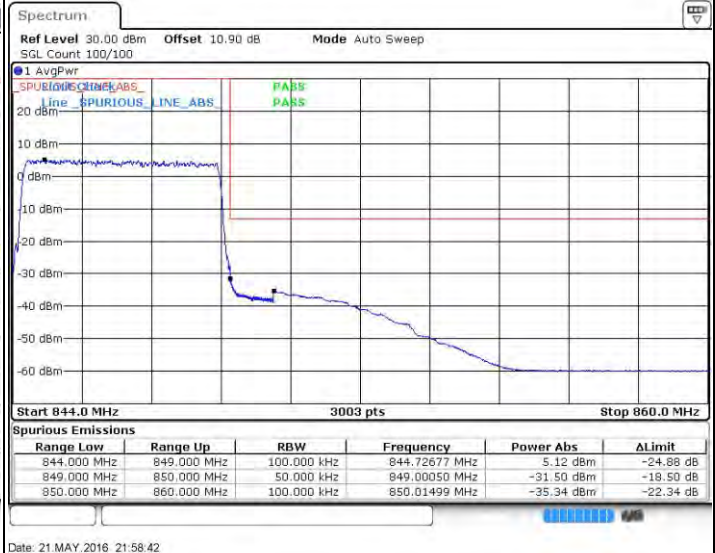
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



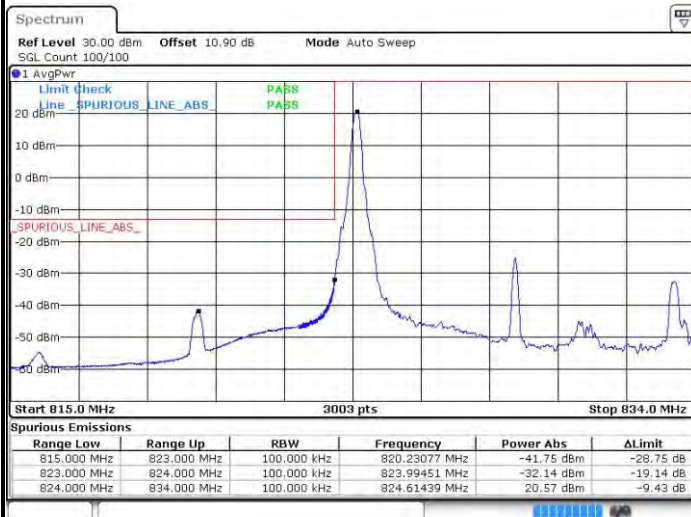
## Highest Band Edge / Full RB



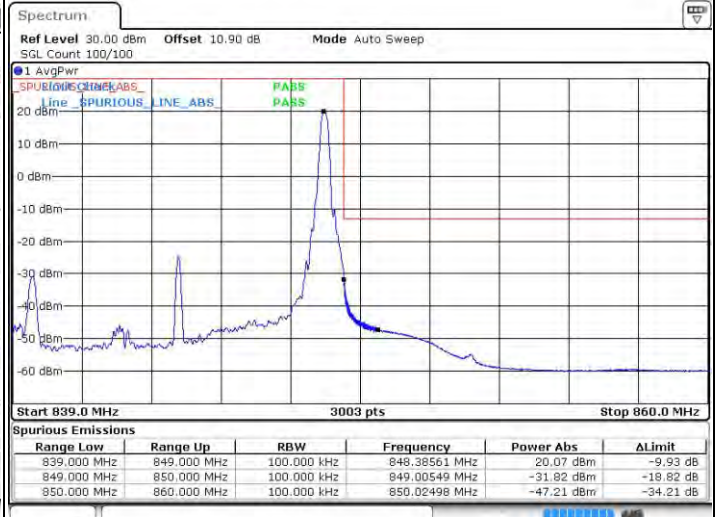


## LTE Band 5 / 10MHz / QPSK

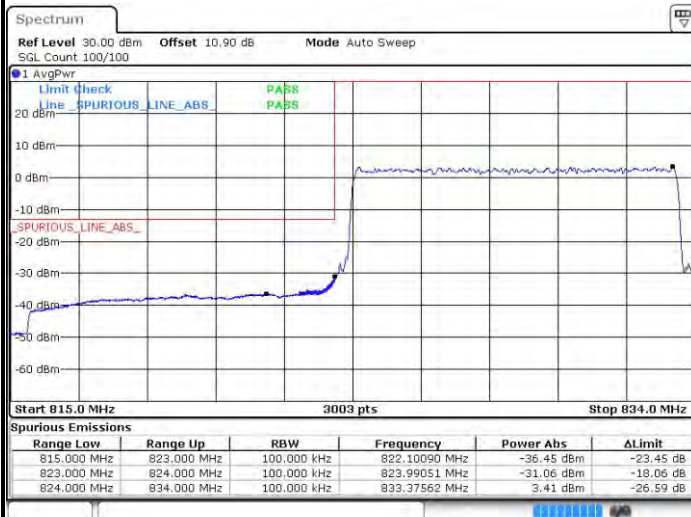
## Lowest Band Edge / 1 RB



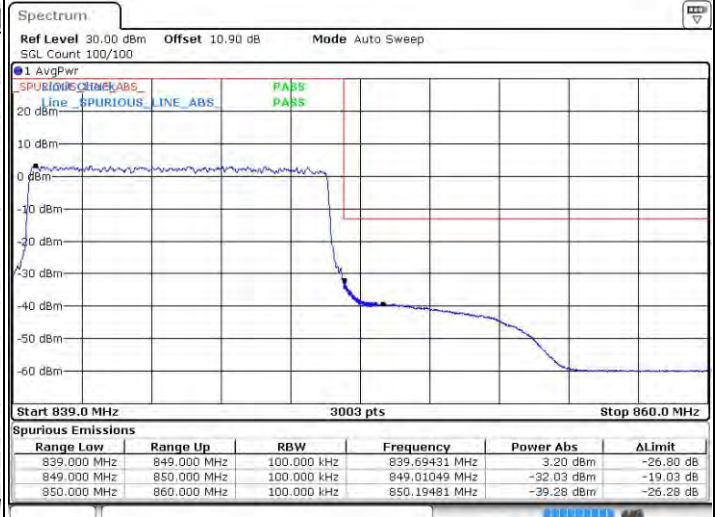
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



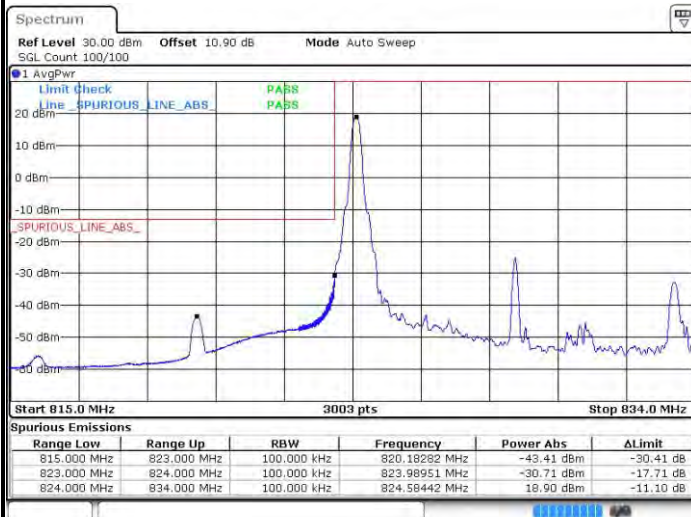
## Highest Band Edge / Full RB



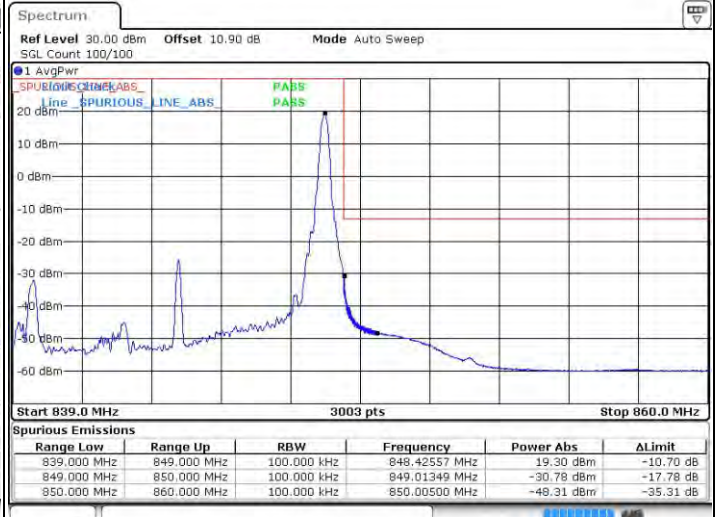


## LTE Band 5 / 10MHz / 16QAM

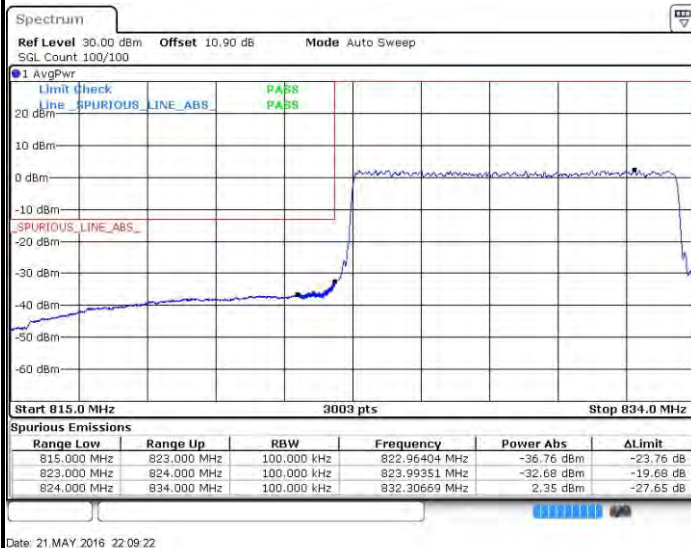
## Lowest Band Edge / 1 RB



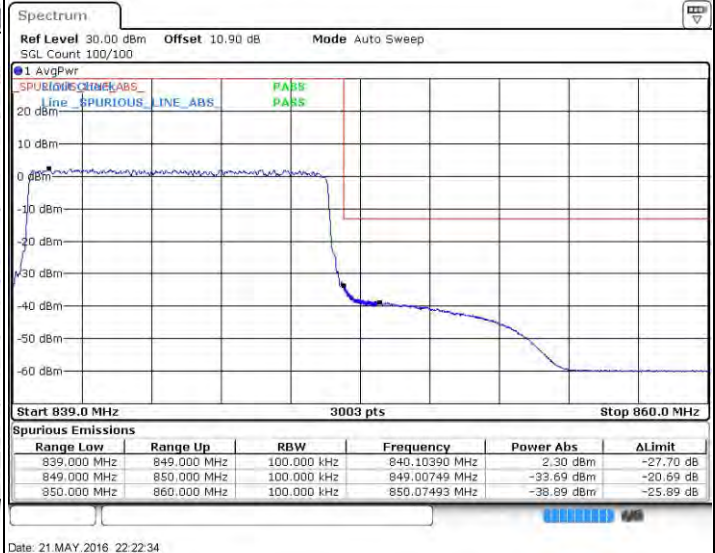
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



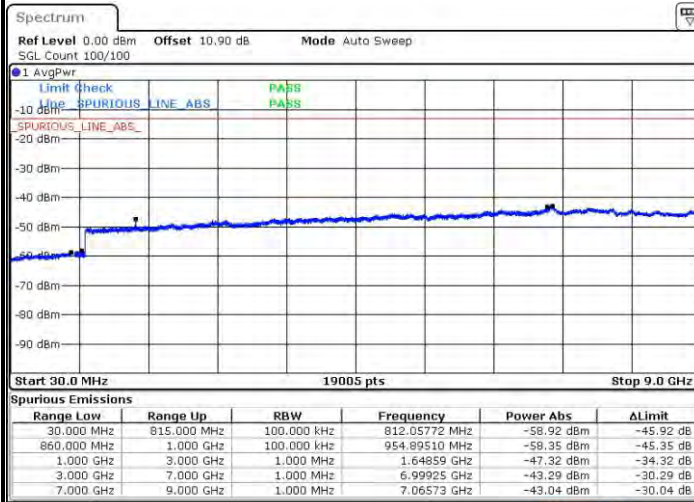


## **Conducted Spurious Emission**



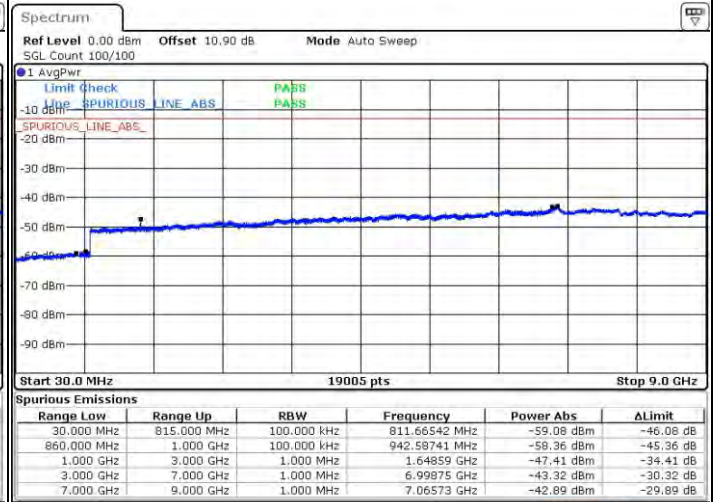
## LTE Band 5 / 1.4MHz

## Lowest Channel / QPSK



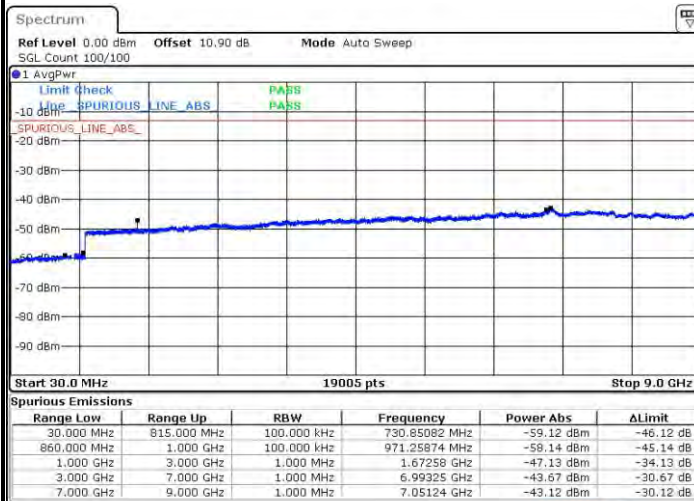
Date: 21 MAY 2016 20:58:42

## Lowest Channel / 16QAM



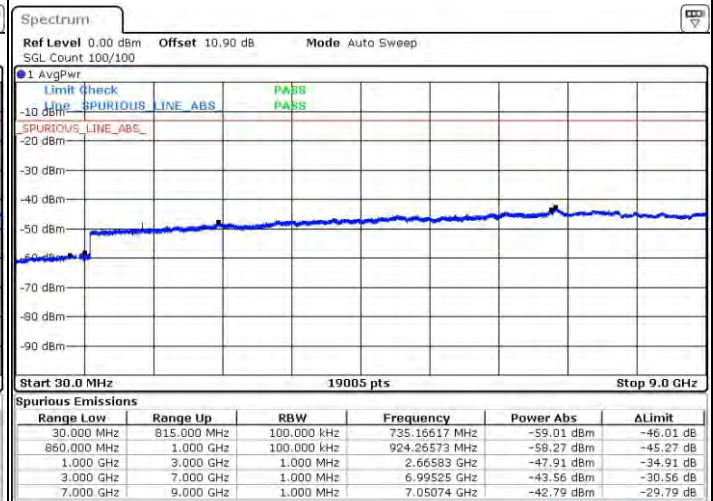
Date: 21 MAY 2016 20:59:36

## Middle Channel / QPSK



Date: 21 MAY 2016 21:01:13

## Middle Channel / 16QAM

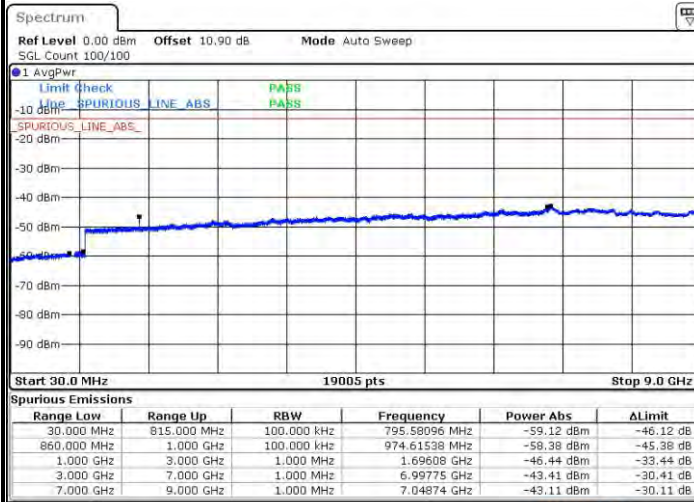


Date: 21 MAY 2016 21:02:08



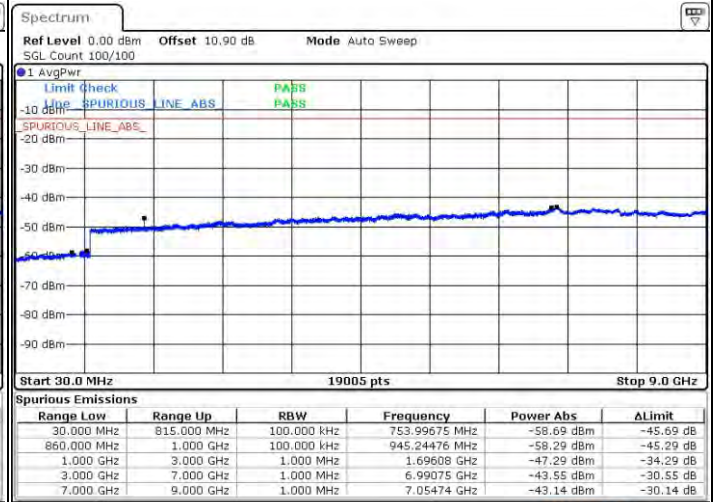
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 21 MAY 2016 21:11:54

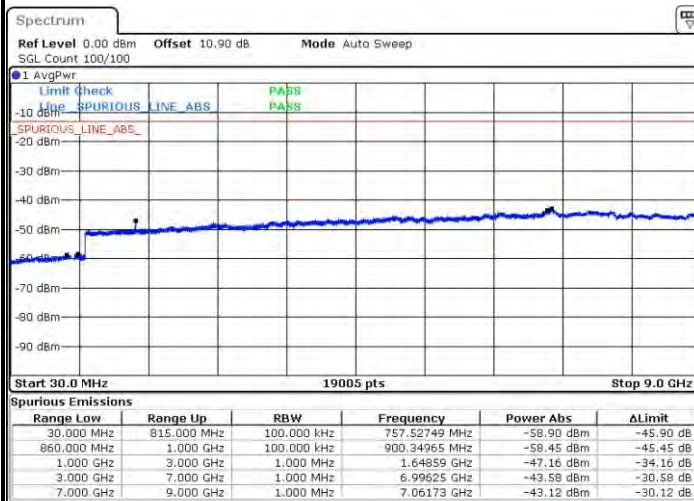
## Highest Channel / 16QAM



Date: 21 MAY 2016 21:12:48

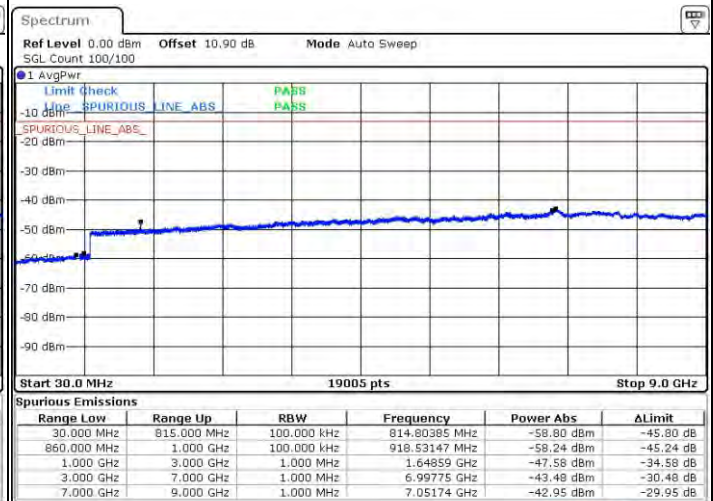
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 21 MAY 2016 21:22:34

## Lowest Channel / 16QAM

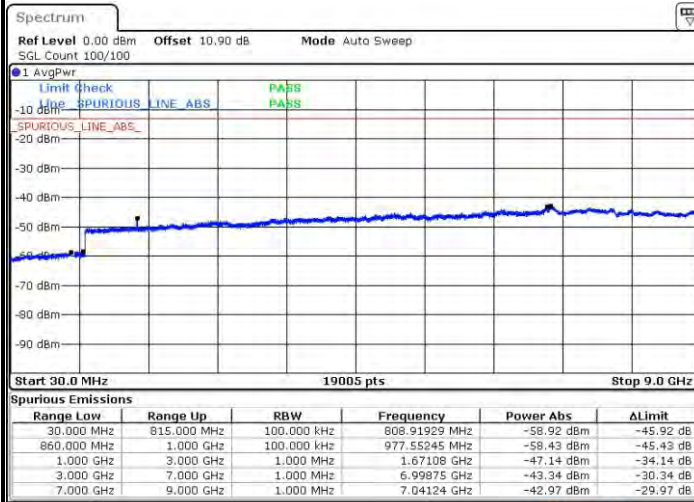


Date: 21 MAY 2016 21:23:28



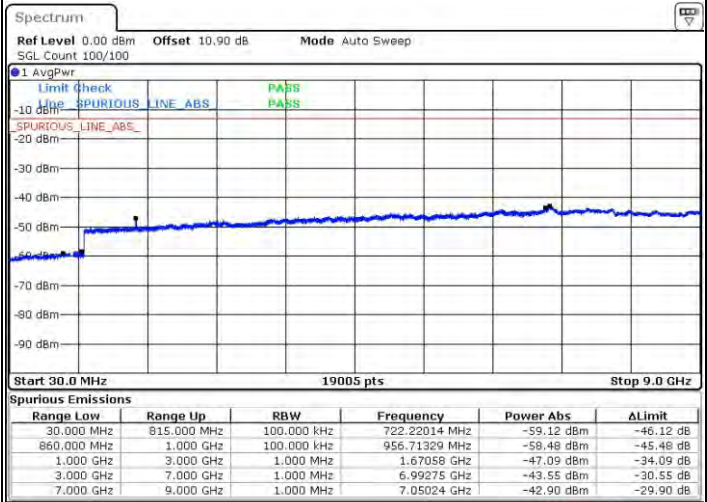
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



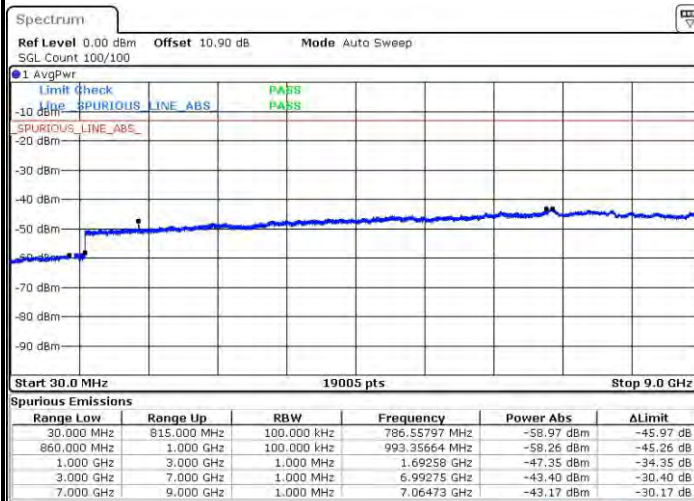
Date: 21 MAY 2016 21:25:04

## Middle Channel / 16QAM



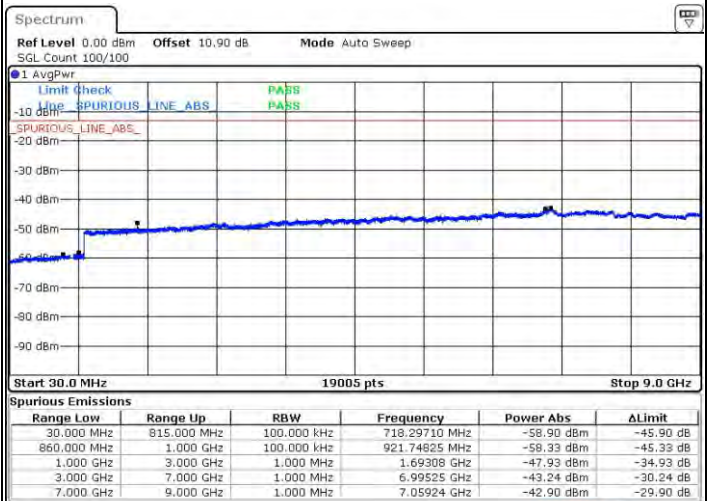
Date: 21 MAY 2016 21:25:58

## Highest Channel / QPSK



Date: 21 MAY 2016 21:35:45

## Highest Channel / 16QAM

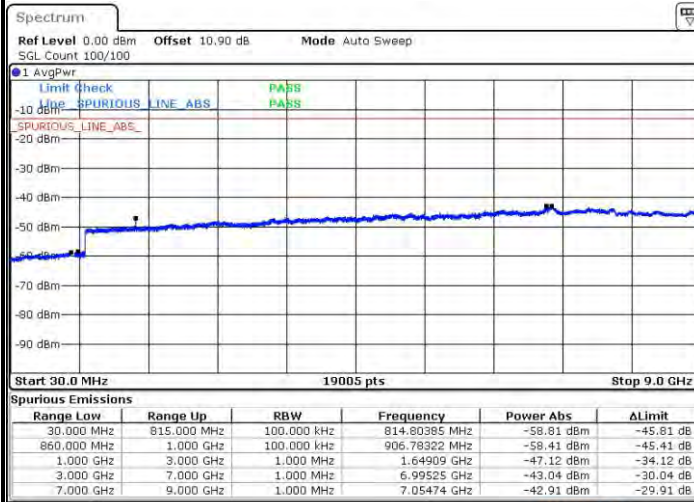


Date: 21 MAY 2016 21:36:39



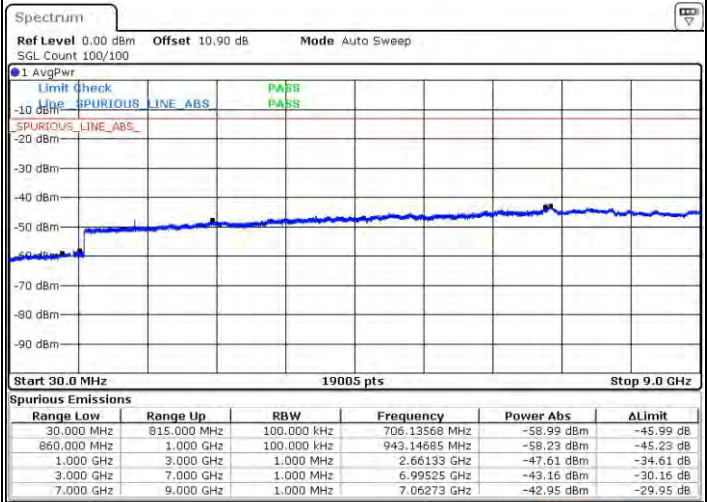
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



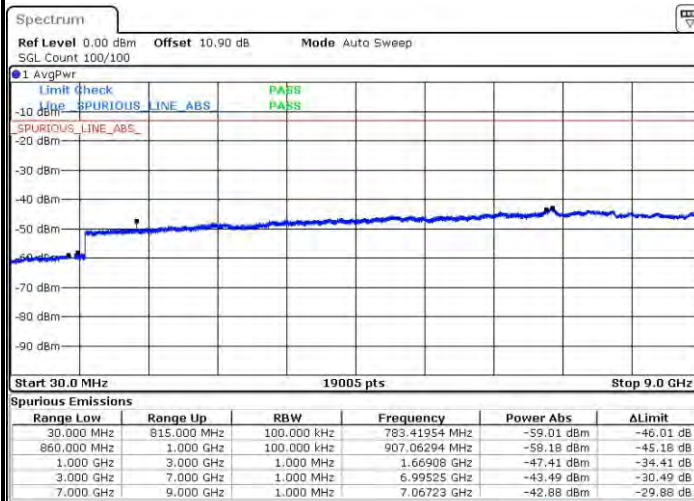
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## Lowest Channel / 16QAM



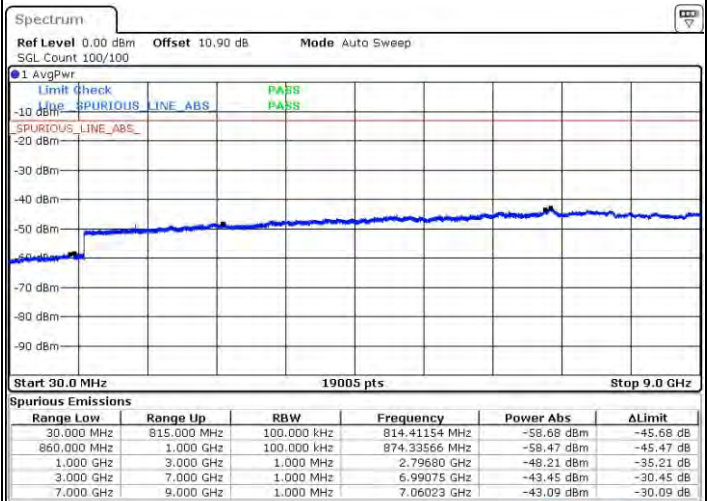
Date: 21 MAY 2016 21:47:20

## Middle Channel / QPSK



Date: 21 MAY 2016 21:48:56

## Middle Channel / 16QAM

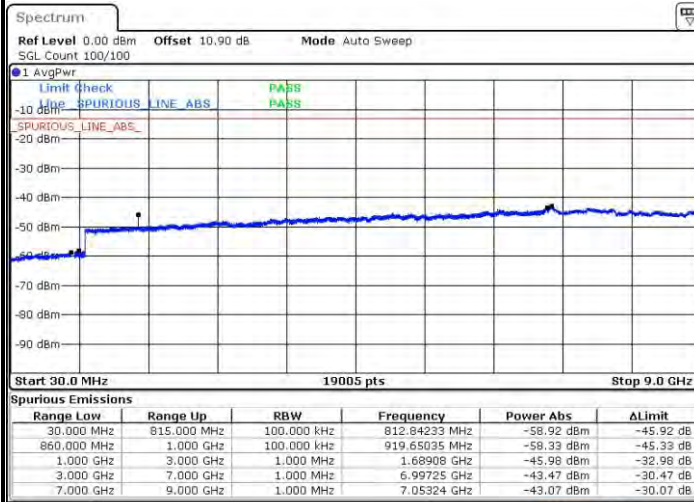


Date: 21 MAY 2016 21:49:51



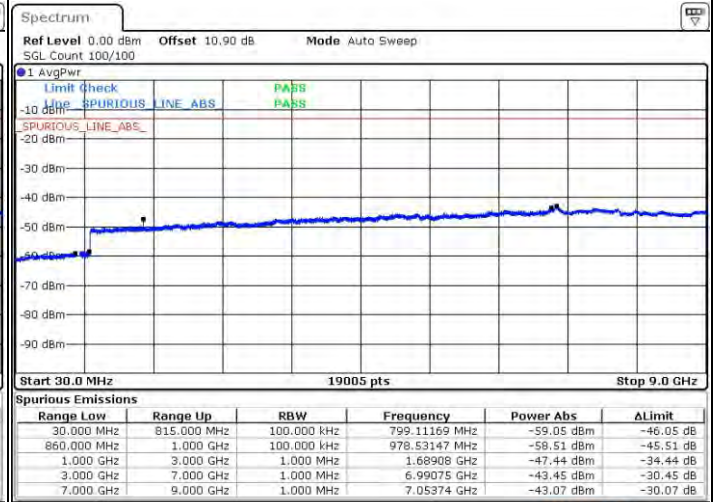
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 21 MAY 2016 21:59:37

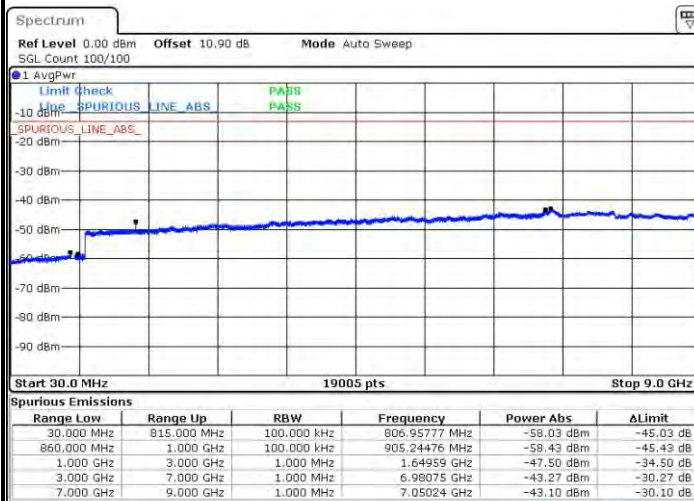
## Highest Channel / 16QAM



Date: 21 MAY 2016 22:00:31

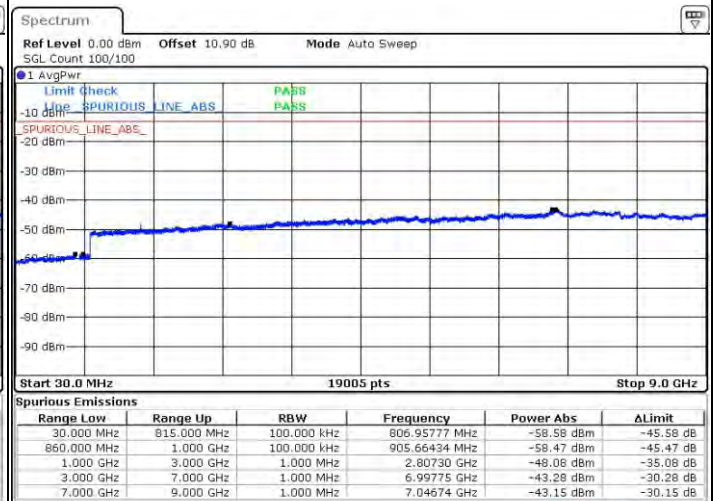
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 21 MAY 2016 22:10:17

## Lowest Channel / 16QAM

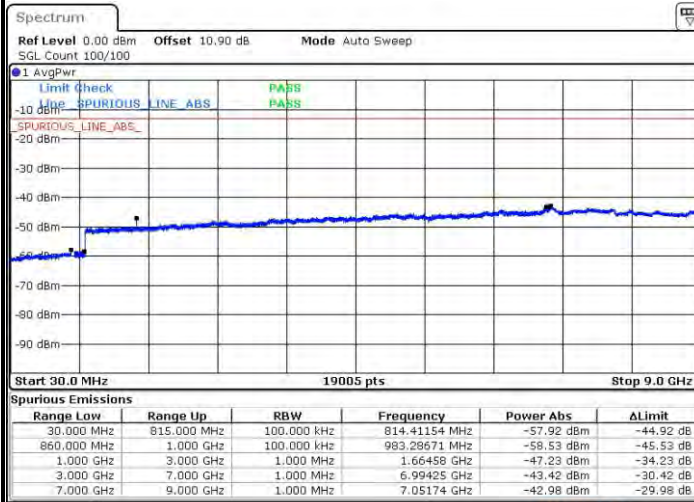


Date: 21 MAY 2016 22:11:12



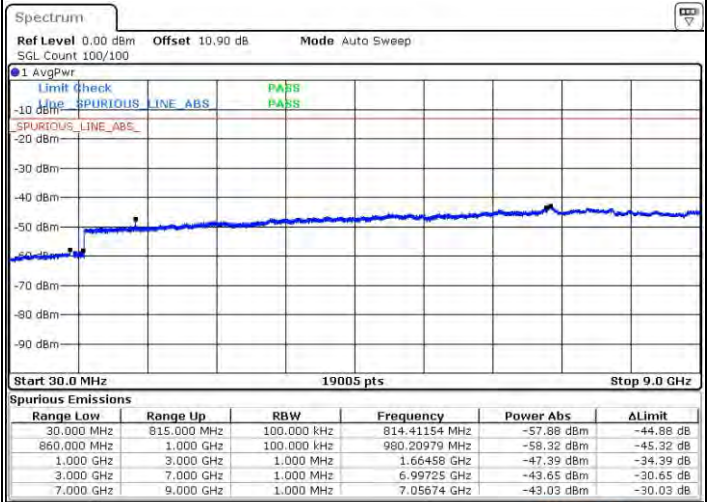
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



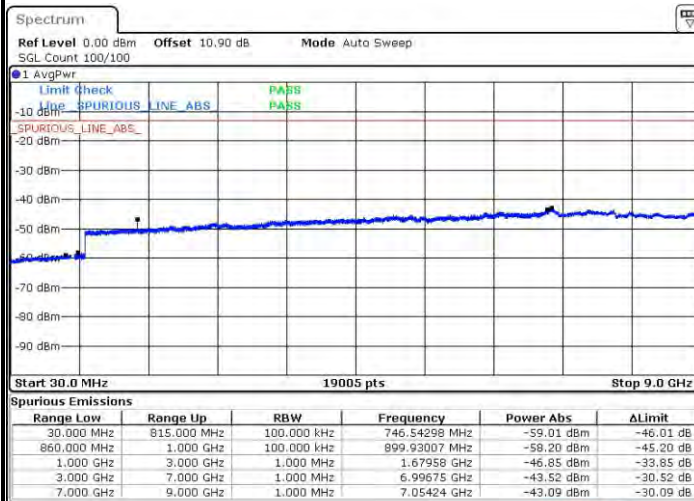
Date: 21 MAY 2016 22:12:49

## Middle Channel / 16QAM



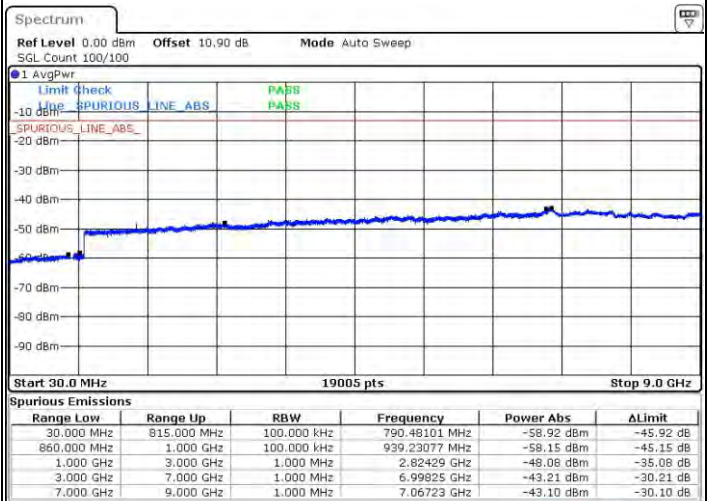
Date: 21 MAY 2016 22:13:43

## Highest Channel / QPSK



Date: 21 MAY 2016 22:23:29

## Highest Channel / 16QAM



Date: 21 MAY 2016 22:24:24

## 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    | 0.0149                             | PASS   |
| 40               | Normal Voltage    | 0.0143                             |        |
| 30               | Normal Voltage    | 0.0151                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0147                             |        |
| 0                | Normal Voltage    | 0.0136                             |        |
| -10              | Normal Voltage    | 0.0018                             |        |
| -20              | Normal Voltage    | 0.0121                             |        |
| -30              | Normal Voltage    | 0.0130                             |        |
| 20               | Maximum Voltage   | 0.0008                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0019                             |        |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage =4.4 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  | 4.09               | 4.99    | 4.9   | 5.97    | PASS        |
| Middle CH  | 4.14               | 5.1     | 5.3   | 6.12    |             |
| Highest CH | 4.17               | 5.04    | 4.9   | 5.94    |             |



## LTE Band 7 / 20MHz / QPSK

## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB

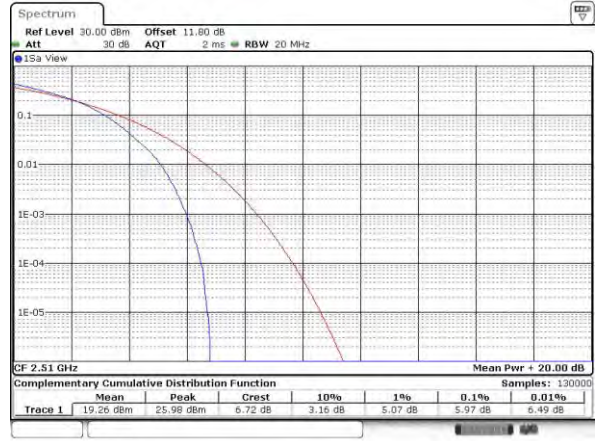


## Highest Channel / Full RB

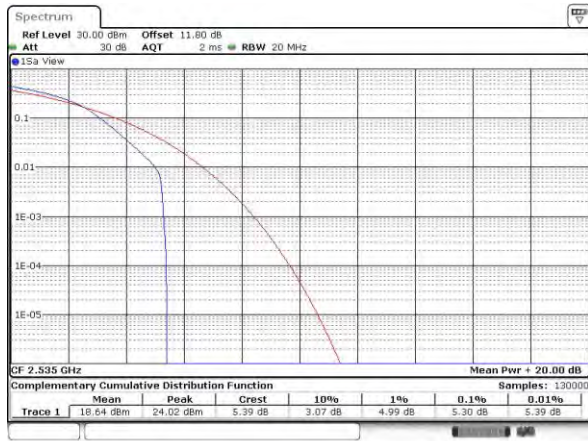


**LTE Band 7 / 20MHz / 16QAM**
**Lowest Channel / 1RB**

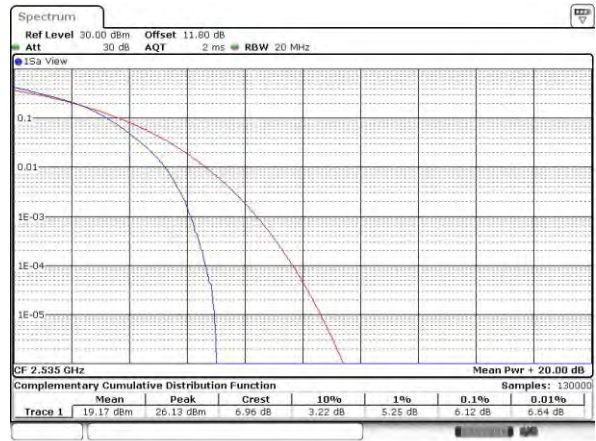

Date: 22 MAY 2016 04:58:17

**Lowest Channel / Full RB**


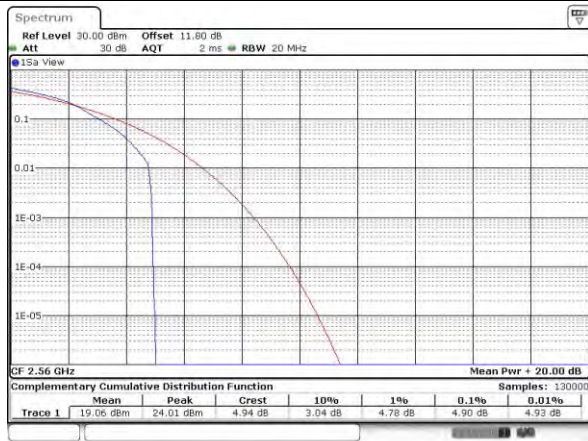
Date: 22 MAY 2016 04:58:27

**Middle Channel / 1RB**


Date: 22 MAY 2016 04:58:38

**Middle Channel / Full RB**


Date: 22 MAY 2016 04:58:48

**Highest Channel / 1RB**


Date: 22 MAY 2016 04:58:58

**Highest Channel / Full RB**


Date: 22 MAY 2016 04:59:08



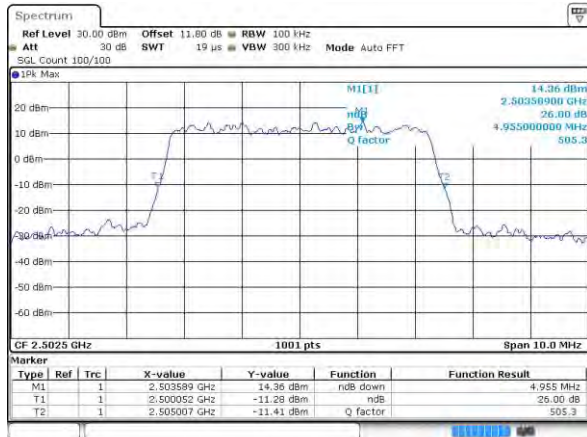
**26dB Bandwidth**

| 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  | -                         | -     | -    | -     | 4.96 | 4.92  | 9.89  | 9.65  | 14.39 | 14.45 | 20.14 | 20.22 |
| Middle CH  | -                         | -     | -    | -     | 4.84 | 4.96  | 9.89  | 9.75  | 14.54 | 14.48 | 20.3  | 20.34 |
| Highest CH | -                         | -     | -    | -     | 4.99 | 4.92  | 9.79  | 9.83  | 14.48 | 14.42 | 20.14 | 20.26 |

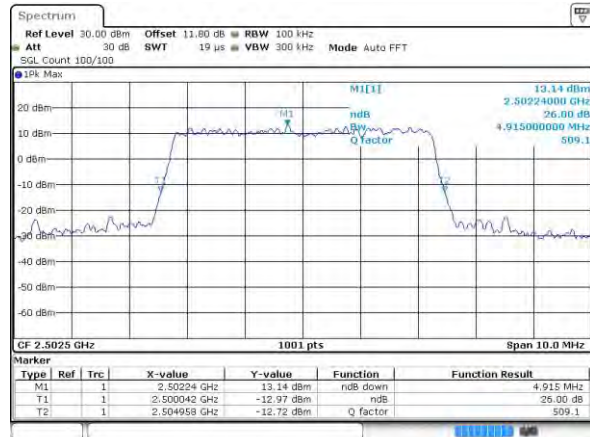


## LTE Band 7

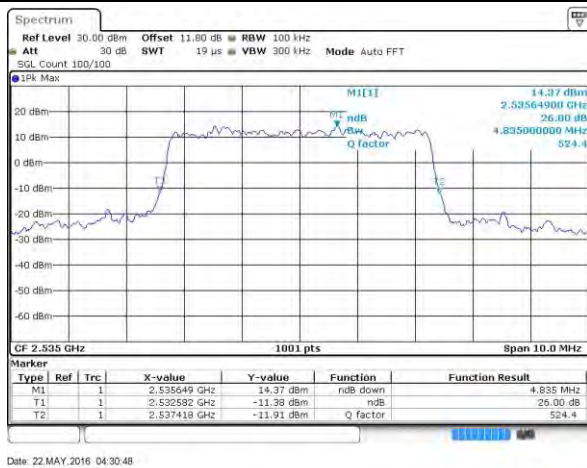
## Lowest Channel / 5MHz / QPSK



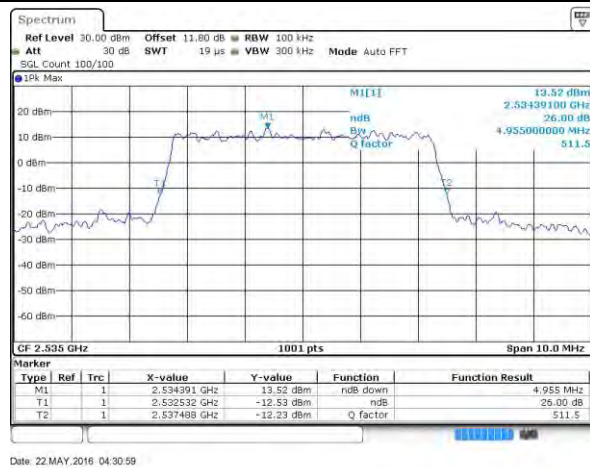
## Lowest Channel / 5MHz / 16QAM



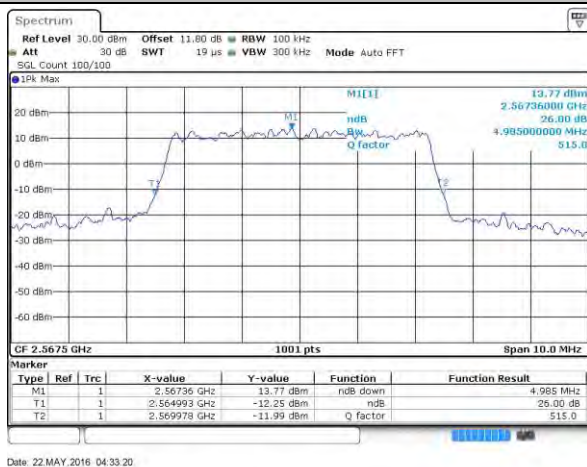
## Middle Channel / 5MHz / QPSK



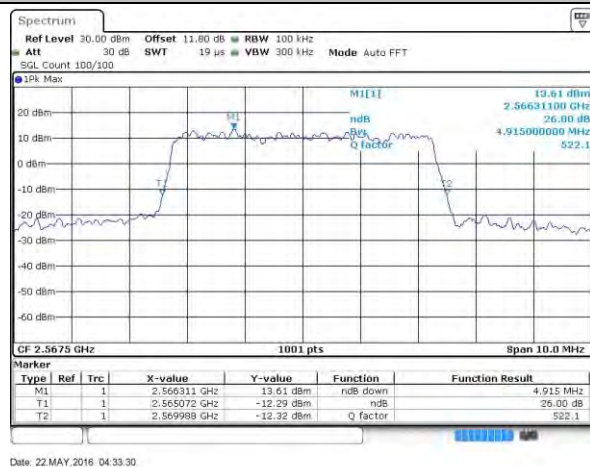
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



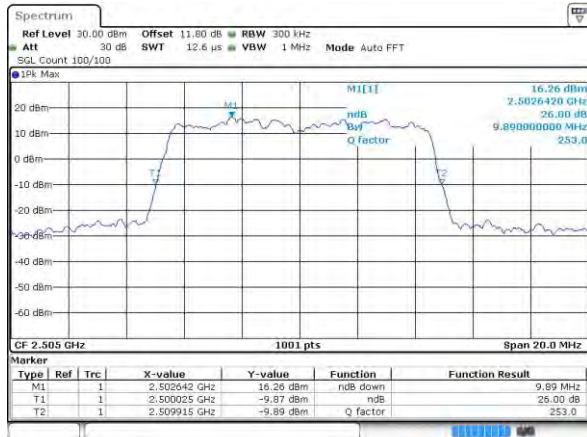
## Highest Channel / 5MHz / 16QAM





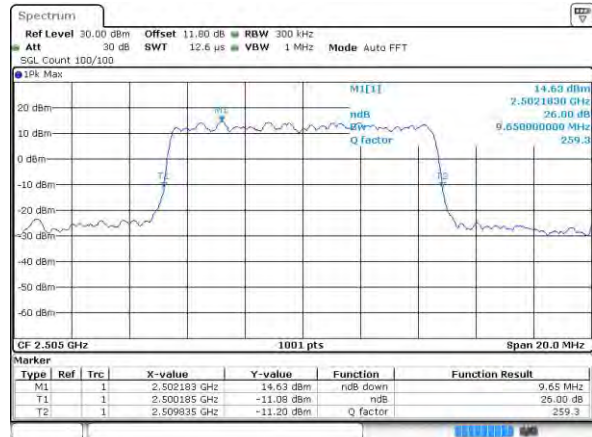
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



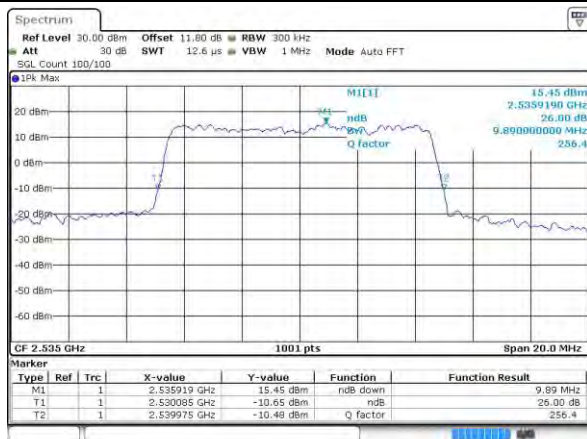
Date: 22 MAY 2016 04:35:51

## Lowest Channel / 10MHz / 16QAM



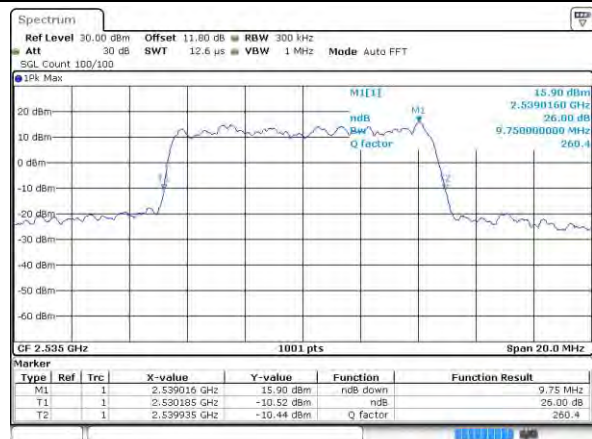
Date: 22 MAY 2016 04:36:02

## Middle Channel / 10MHz / QPSK



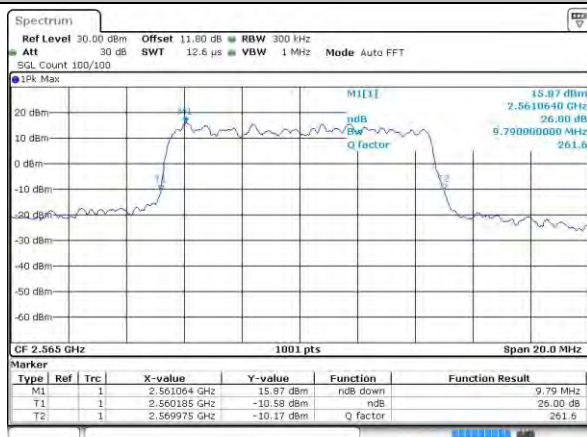
Date: 22 MAY 2016 04:38:23

## Middle Channel / 10MHz / 16QAM



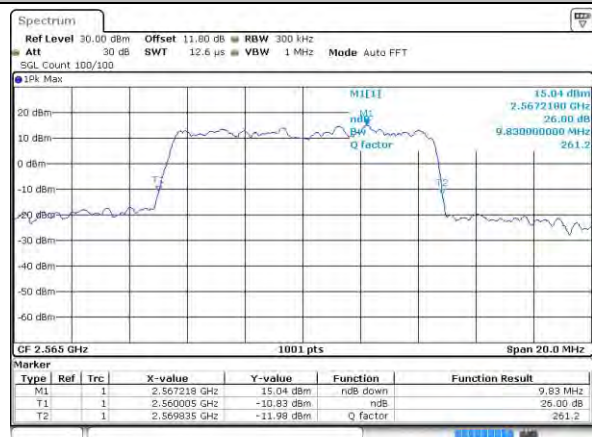
Date: 22 MAY 2016 04:38:33

## Highest Channel / 10MHz / QPSK



Date: 22 MAY 2016 04:40:54

## Highest Channel / 10MHz / 16QAM

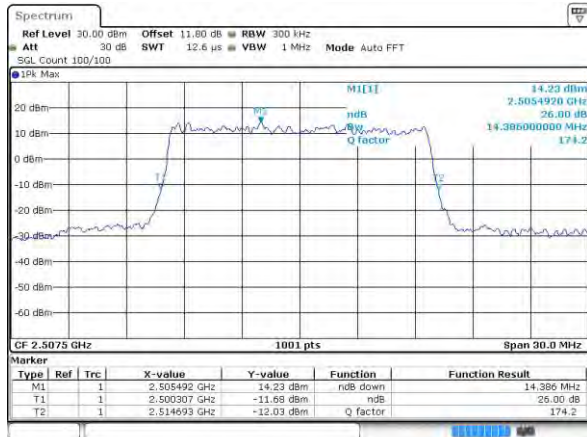


Date: 22 MAY 2016 04:41:04

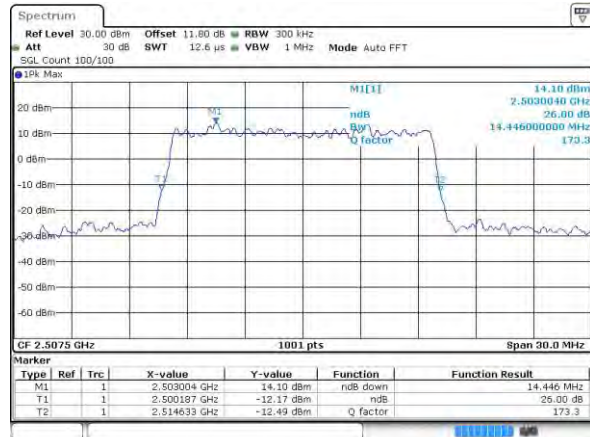


## LTE Band 7

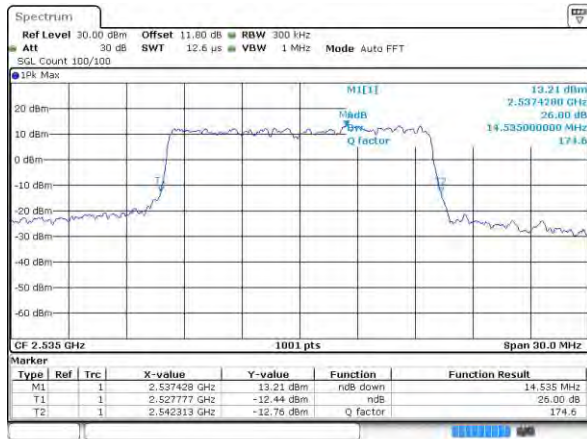
## Lowest Channel / 15MHz / QPSK



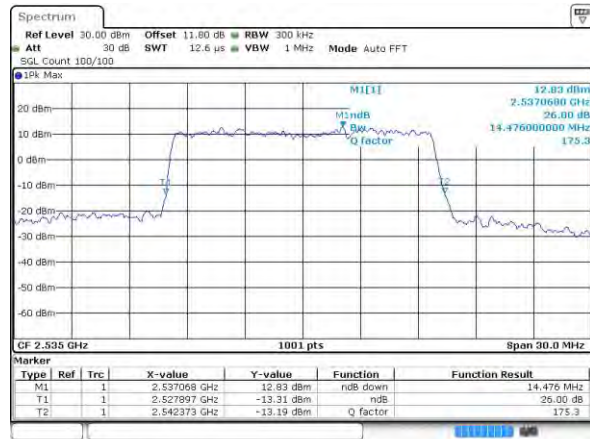
## Lowest Channel / 15MHz / 16QAM



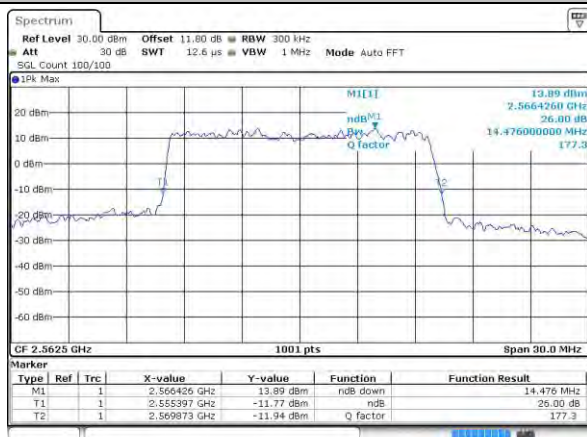
## Middle Channel / 15MHz / QPSK



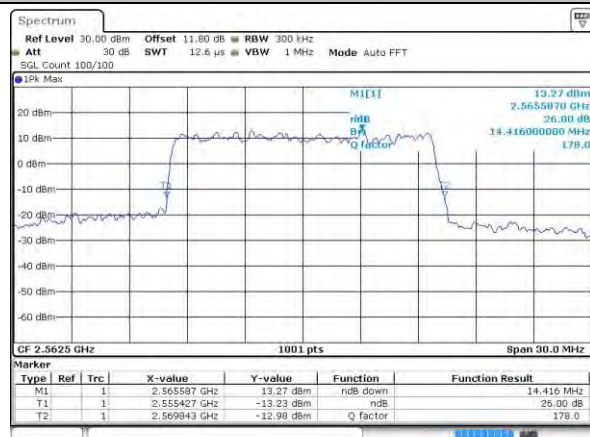
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



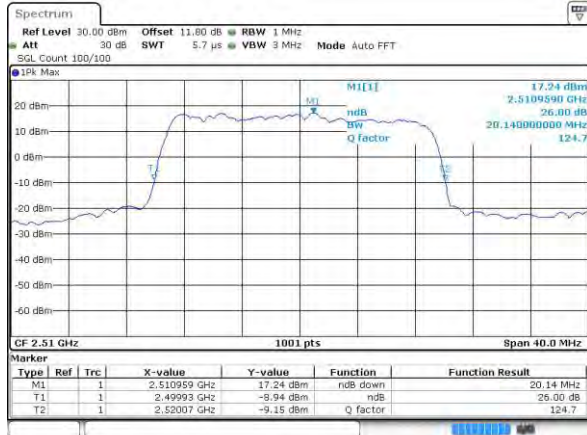
## Highest Channel / 15MHz / 16QAM



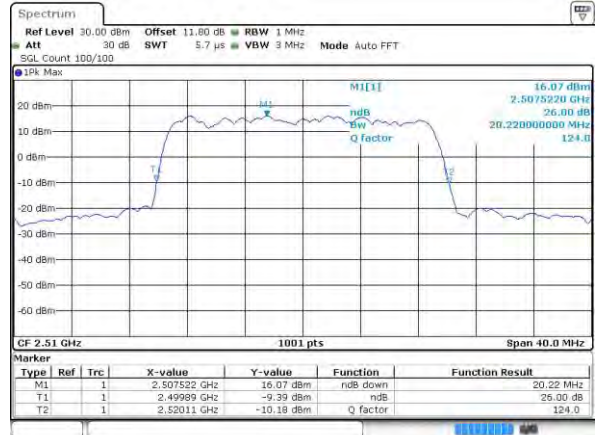


## LTE Band 7

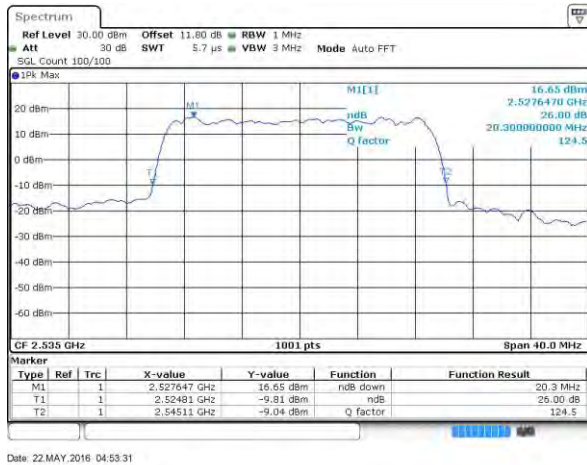
## Lowest Channel / 20MHz / QPSK



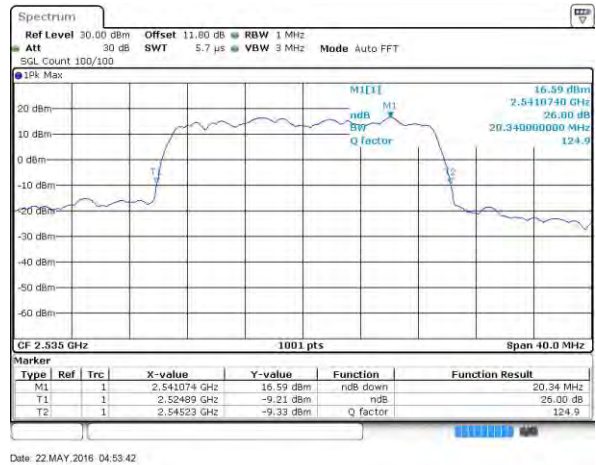
## Lowest Channel / 20MHz / 16QAM



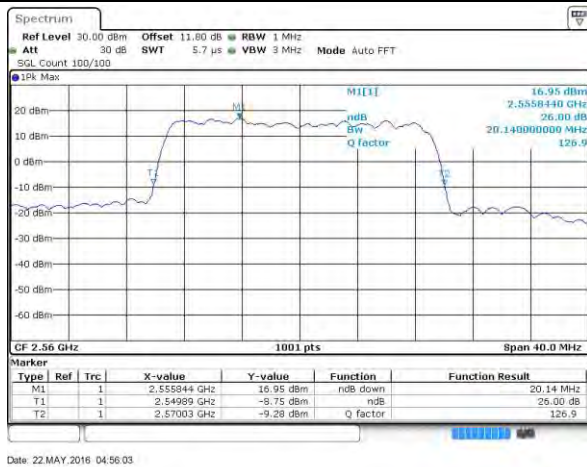
## Middle Channel / 20MHz / QPSK



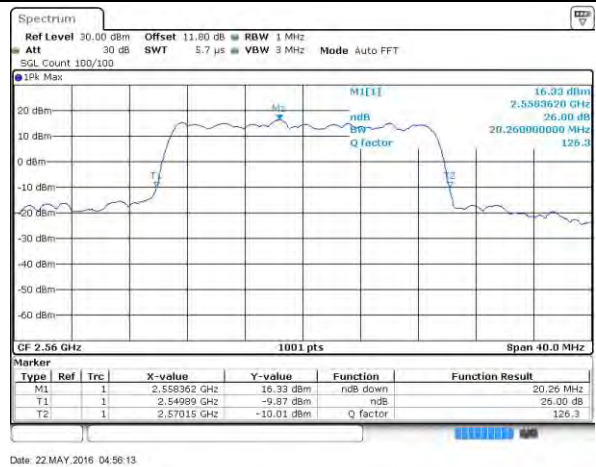
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





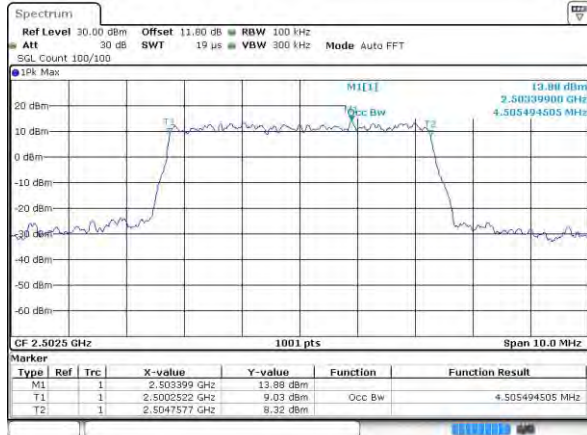
## Occupied Bandwidth

| 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 | 4.51  | 9.03  | 9.05  | 13.43 | 13.37 | 18.46 | 18.22 |
| Middle CH  | -                        | -     | -    | -     | 4.52 | 4.51  | 9.09  | 8.99  | 13.46 | 13.46 | 18.46 | 18.5  |
| Highest CH | -                        | -     | -    | -     | 4.52 | 4.5   | 9.01  | 9.07  | 13.52 | 13.43 | 18.38 | 18.42 |



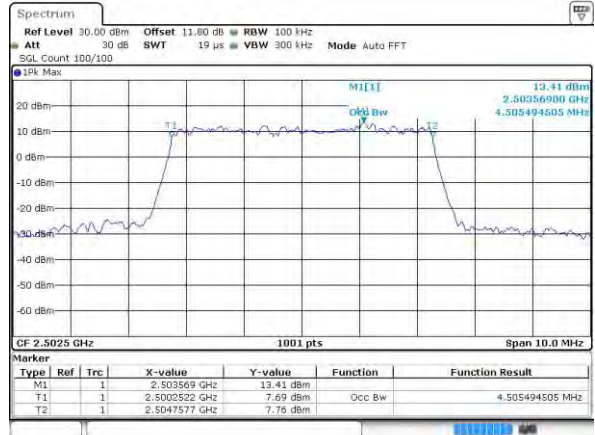
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



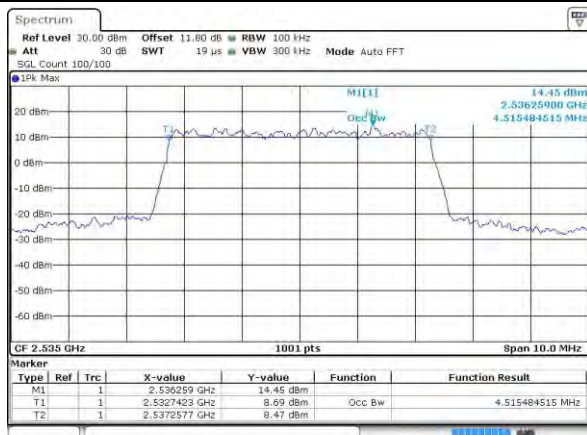
Date: 22 MAY 2016 04:27:56

## Lowest Channel / 5MHz / 16QAM



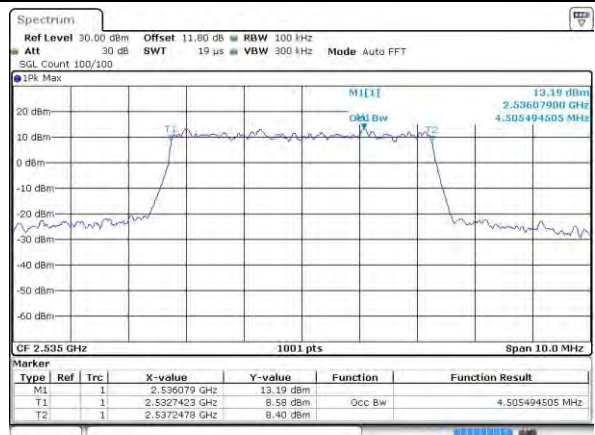
Date: 22 MAY 2016 04:28:06

## Middle Channel / 5MHz / QPSK



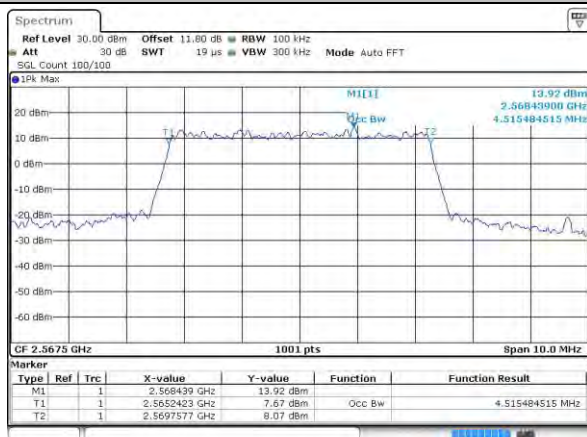
Date: 22 MAY 2016 04:30:27

## Middle Channel / 5MHz / 16QAM



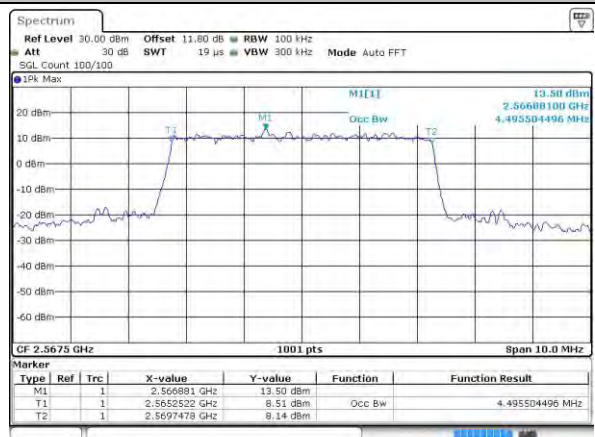
Date: 22 MAY 2016 04:30:38

## Highest Channel / 5MHz / QPSK



Date: 22 MAY 2016 04:33:59

## Highest Channel / 5MHz / 16QAM

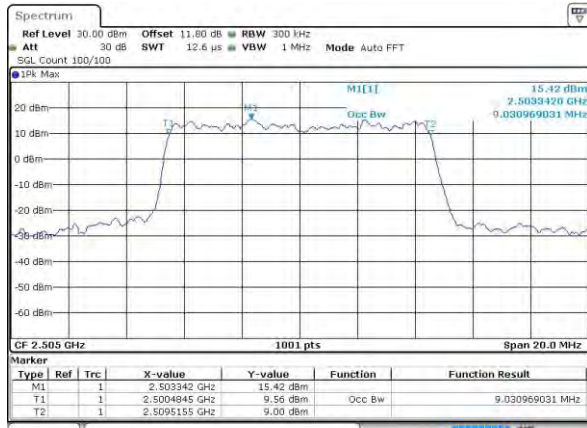


Date: 22 MAY 2016 04:33:09



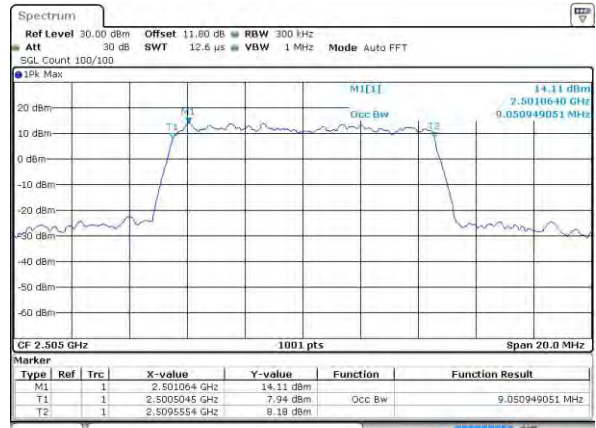
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



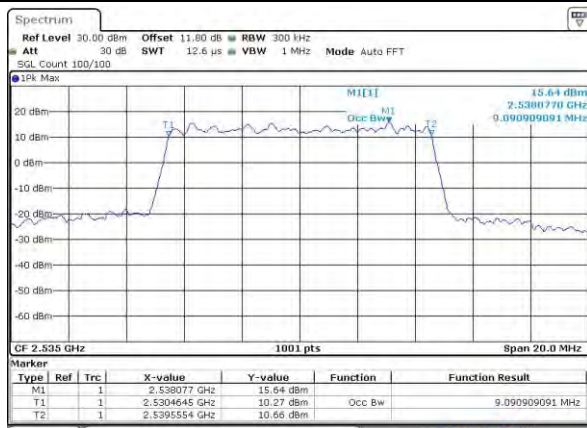
Date: 22 MAY 2016 04:35:30

## Lowest Channel / 10MHz / 16QAM



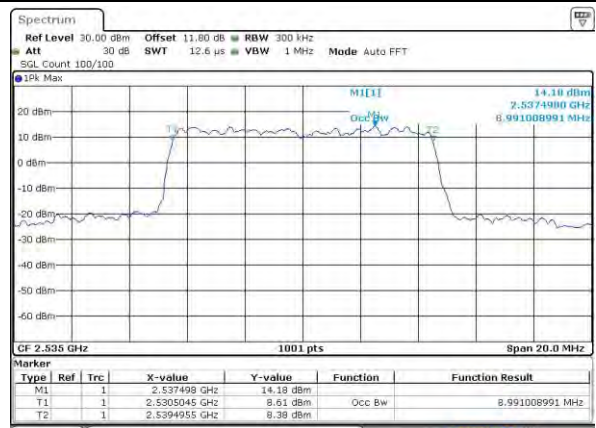
Date: 22 MAY 2016 04:35:41

## Middle Channel / 10MHz / QPSK



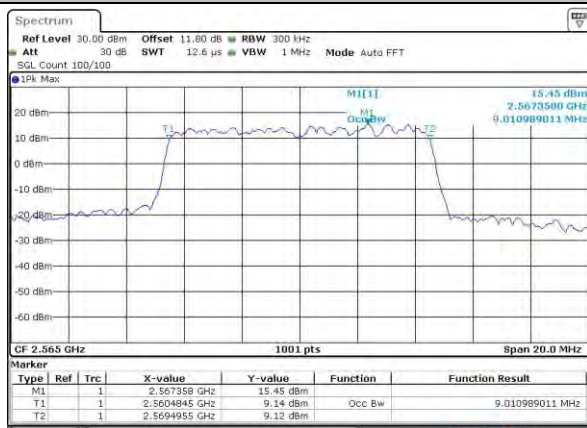
Date: 22 MAY 2016 04:38:01

## Middle Channel / 10MHz / 16QAM



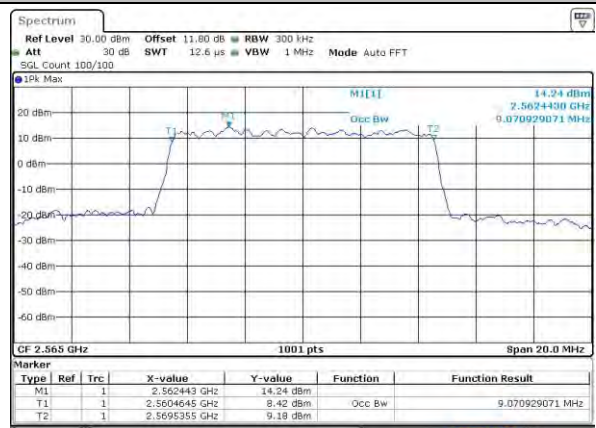
Date: 22 MAY 2016 04:38:12

## Highest Channel / 10MHz / QPSK



Date: 22 MAY 2016 04:40:33

## Highest Channel / 10MHz / 16QAM

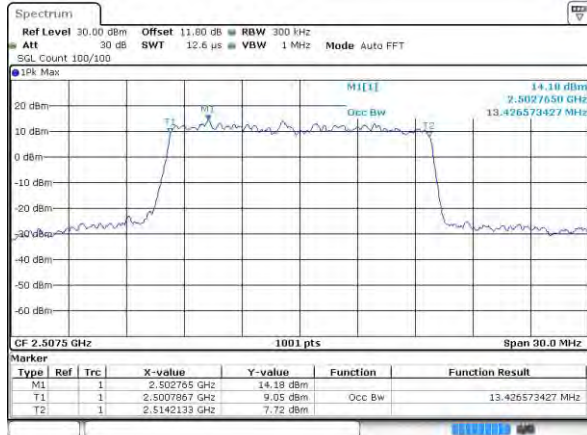


Date: 22 MAY 2016 04:40:43

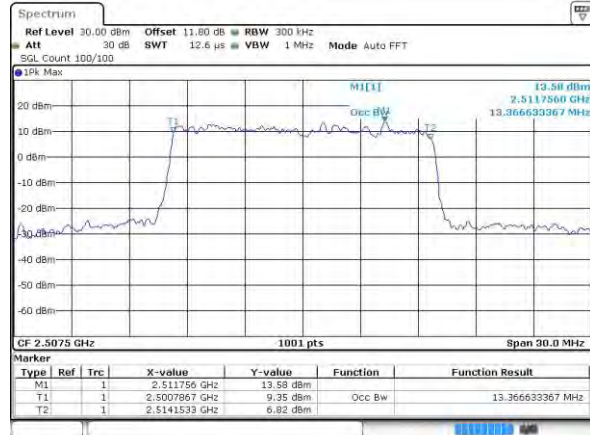


## LTE Band 7

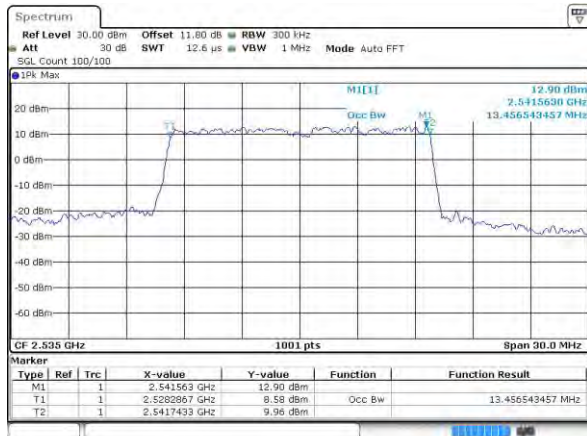
## Lowest Channel / 15MHz / QPSK



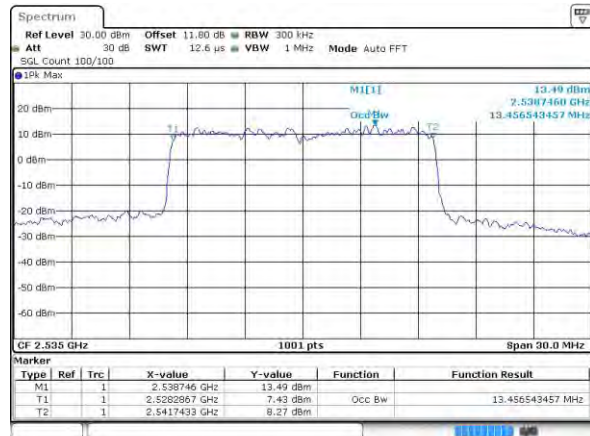
## Lowest Channel / 15MHz / 16QAM



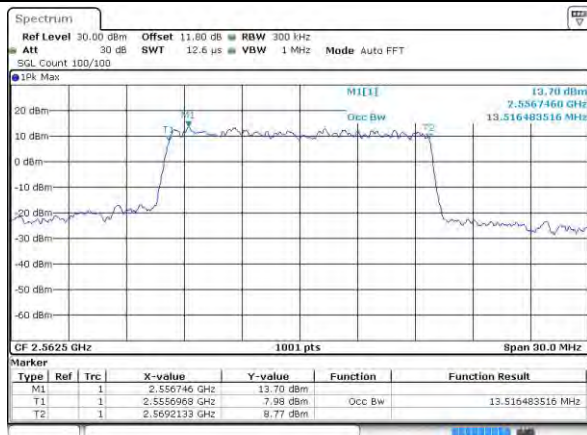
## Middle Channel / 15MHz / QPSK



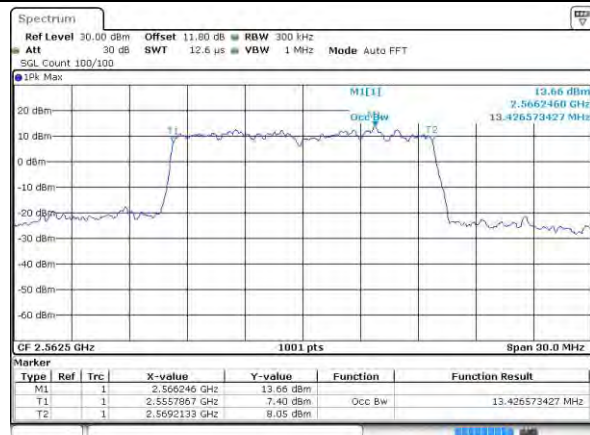
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



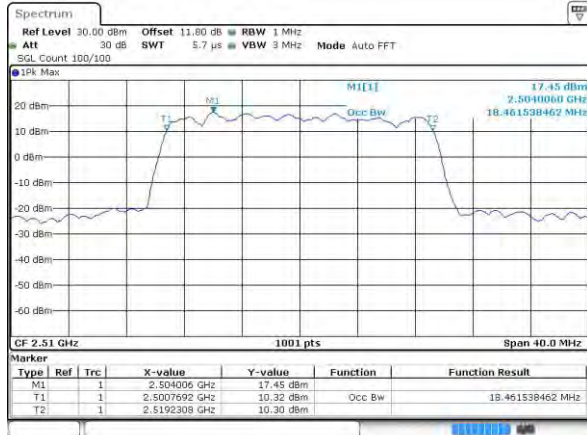
## Highest Channel / 15MHz / 16QAM





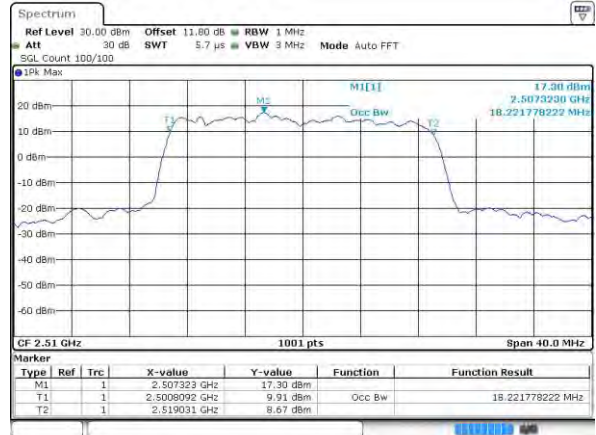
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



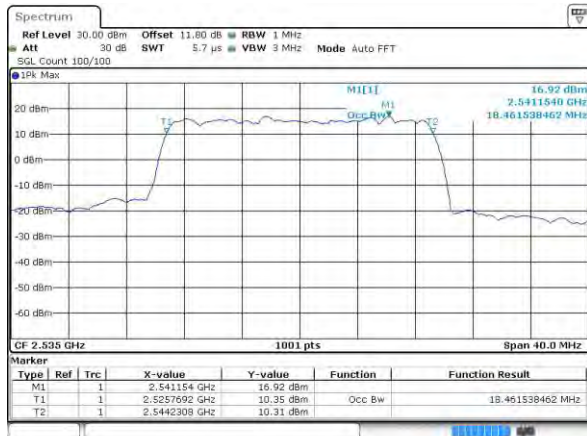
Date: 22 MAY 2016 04:50:38

## Lowest Channel / 20MHz / 16QAM



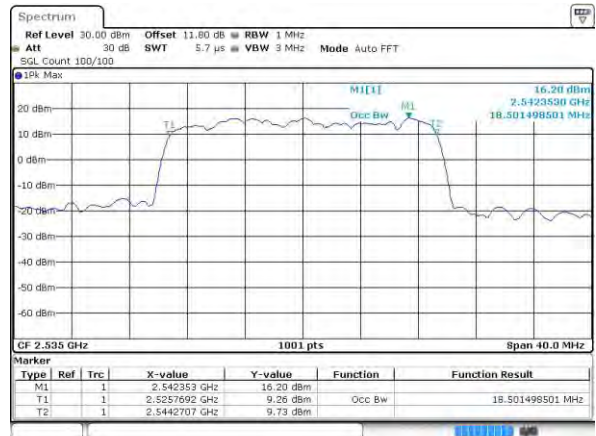
Date: 22 MAY 2016 04:50:49

## Middle Channel / 20MHz / QPSK



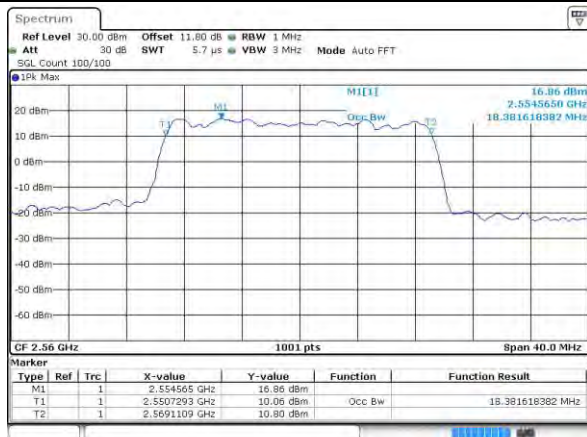
Date: 22 MAY 2016 04:53:10

## Middle Channel / 20MHz / 16QAM



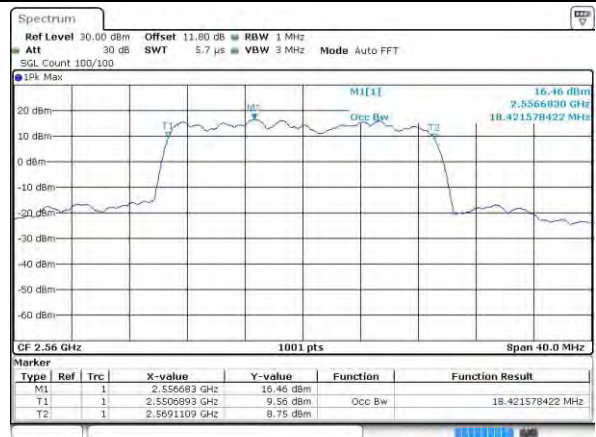
Date: 22 MAY 2016 04:53:21

## Highest Channel / 20MHz / QPSK



Date: 22 MAY 2016 04:55:42

## Highest Channel / 20MHz / 16QAM



Date: 22 MAY 2016 04:55:52

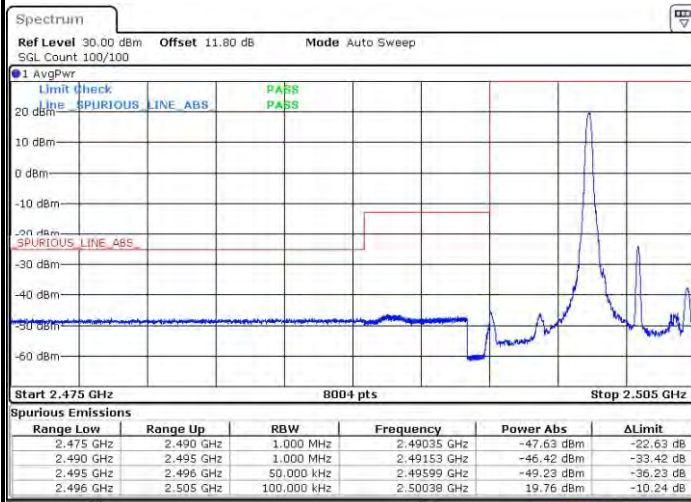


## **Conducted Band Edge**

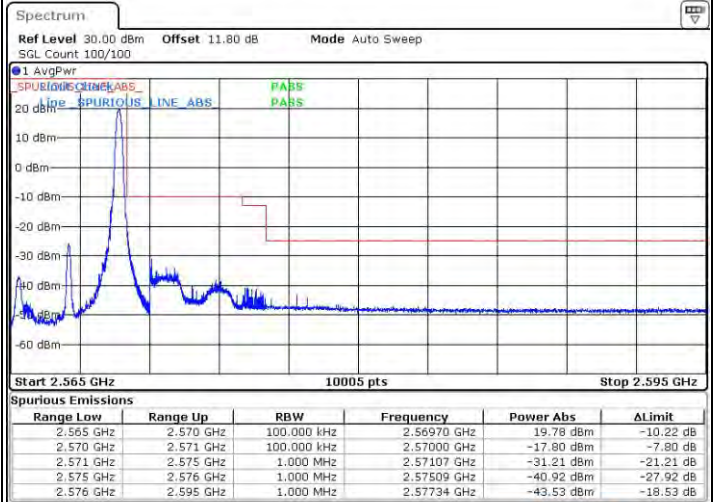


## LTE Band 7 / 5MHz / QPSK

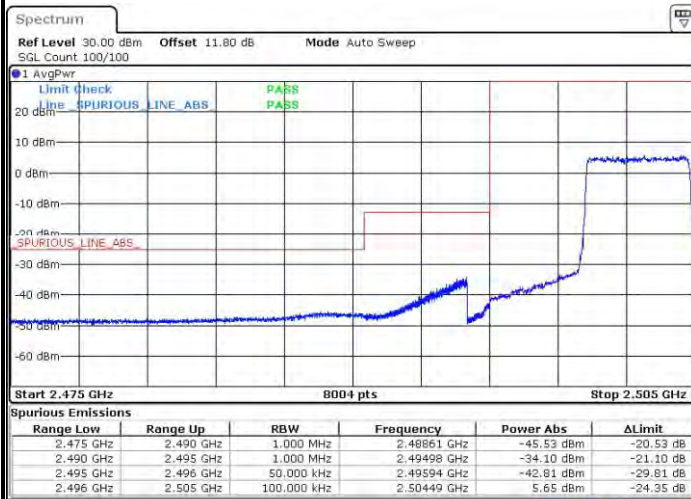
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



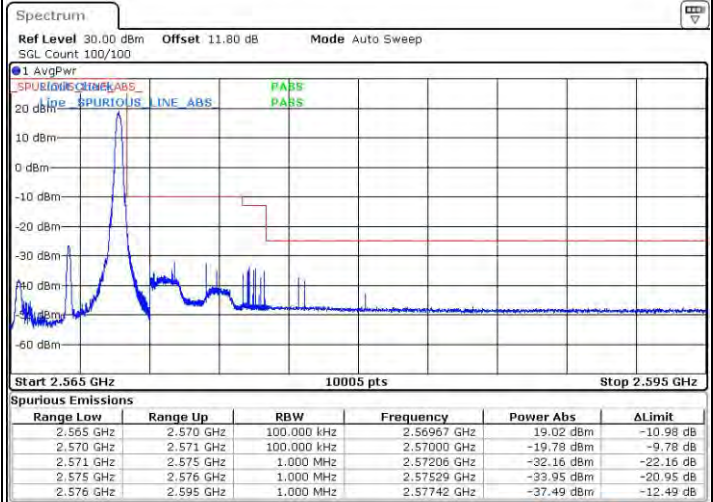


## LTE Band 7 / 5MHz / 16QAM

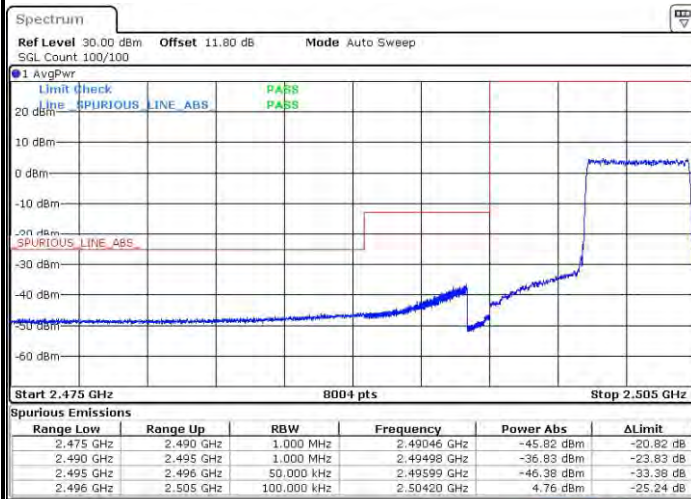
## Lowest Band Edge / 1 RB



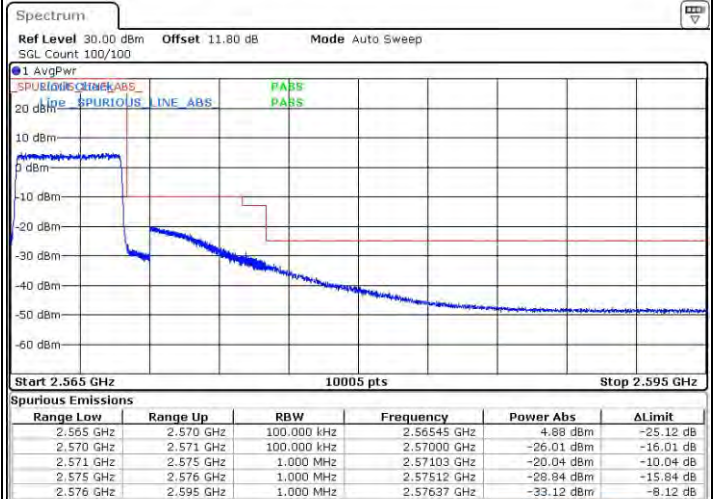
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



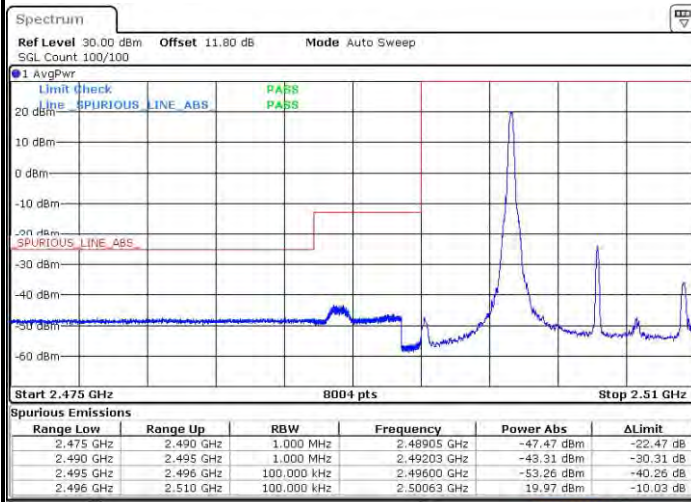
## Highest Band Edge / Full RB



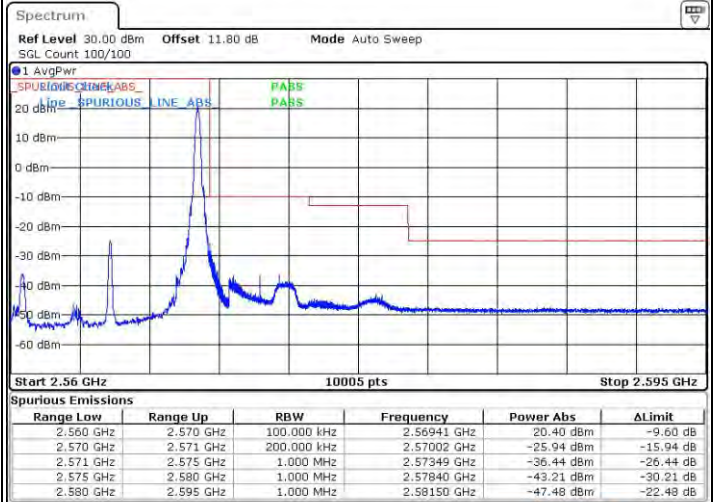


## LTE Band 7 / 10MHz / QPSK

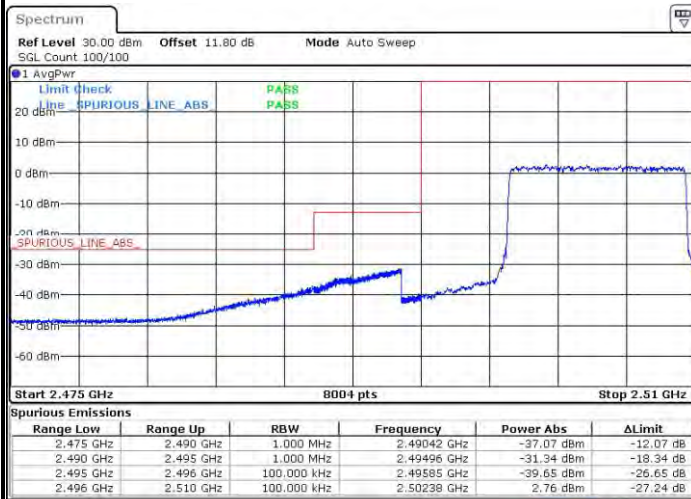
## Lowest Band Edge / 1 RB



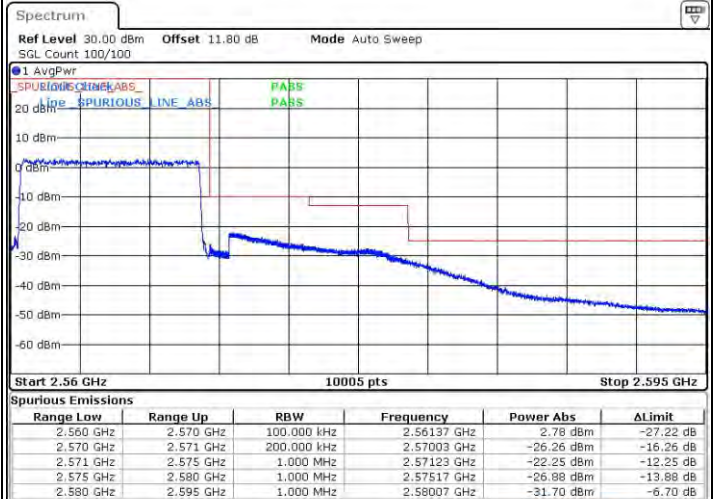
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



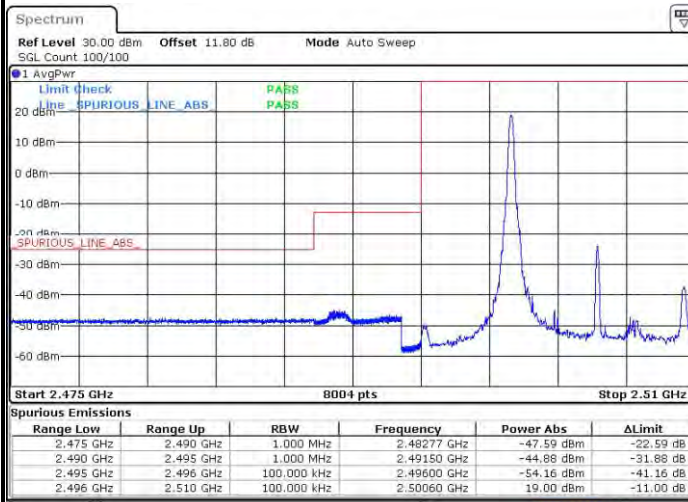
## Highest Band Edge / Full RB



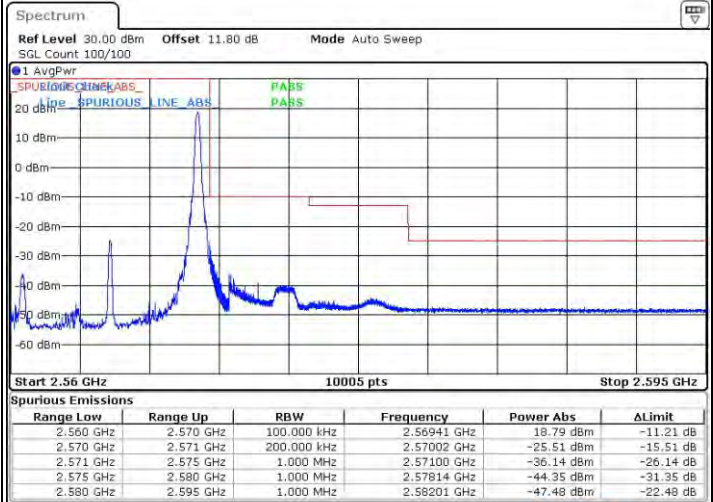


## LTE Band 7 / 10MHz / 16QAM

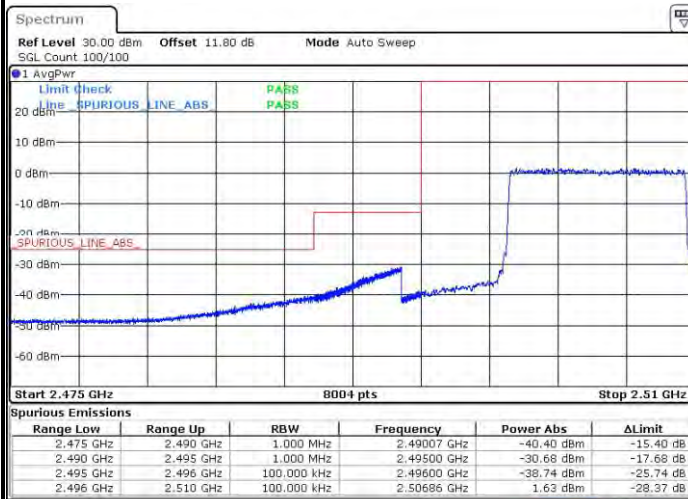
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



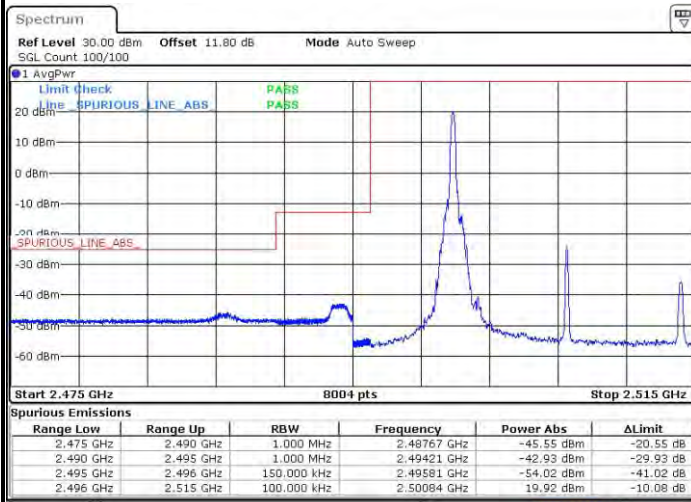
## Highest Band Edge / Full RB



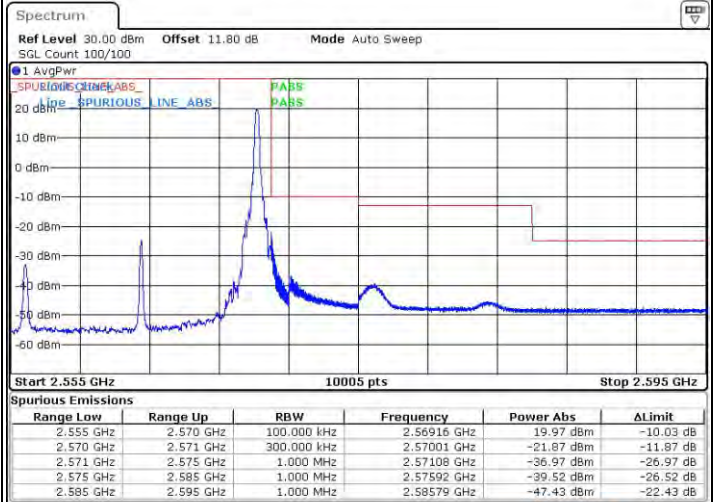


## LTE Band 7 / 15MHz / QPSK

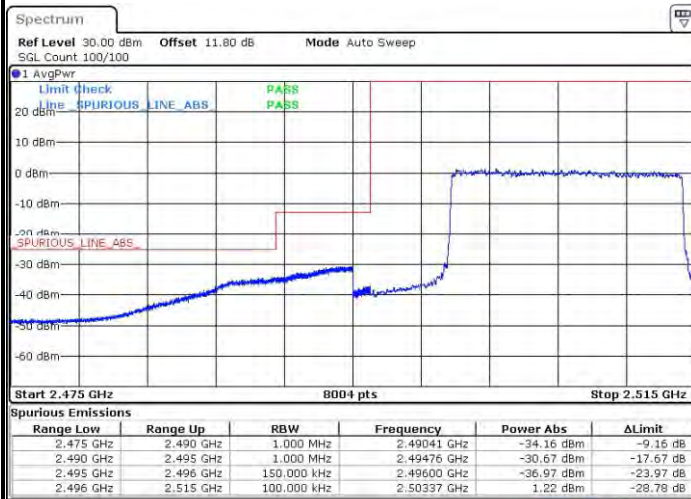
## Lowest Band Edge / 1 RB



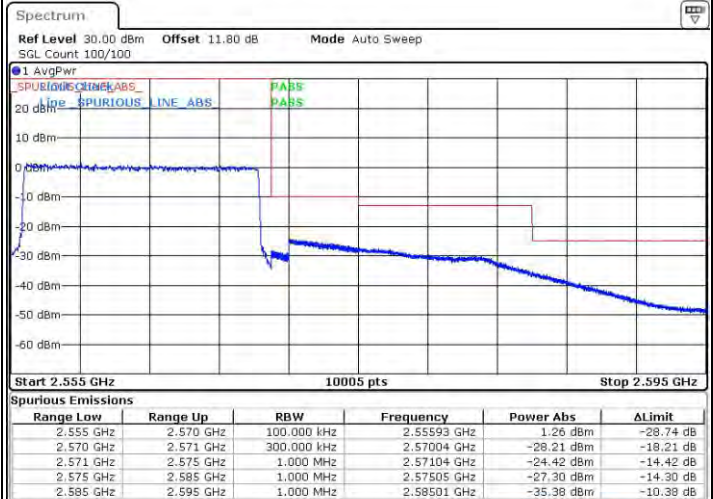
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



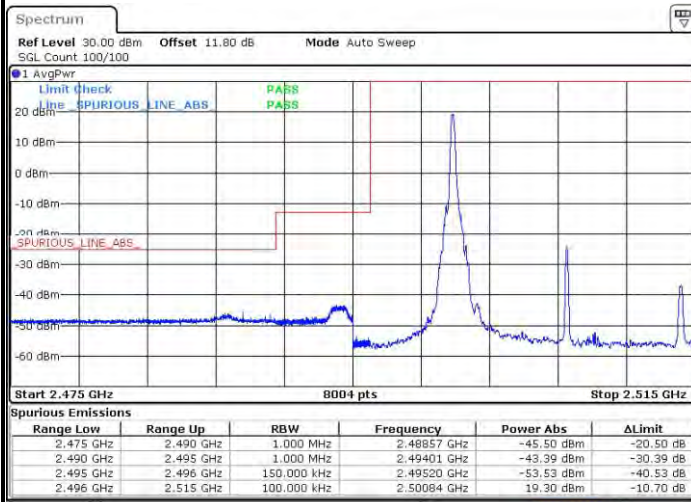
## Highest Band Edge / Full RB



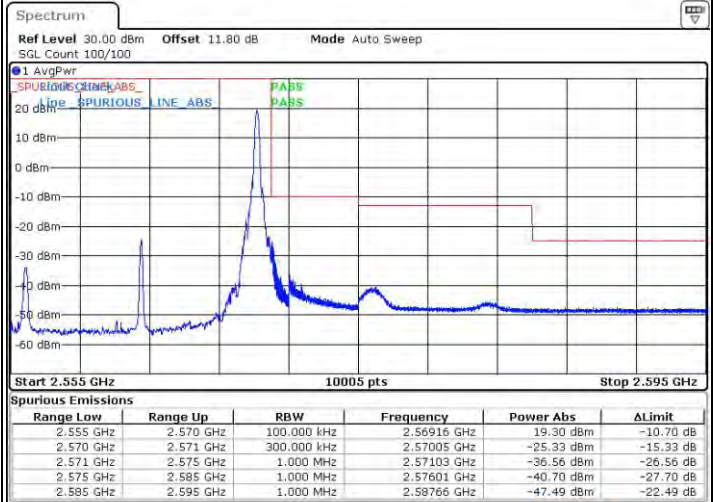


## LTE Band 7 / 15MHz / 16QAM

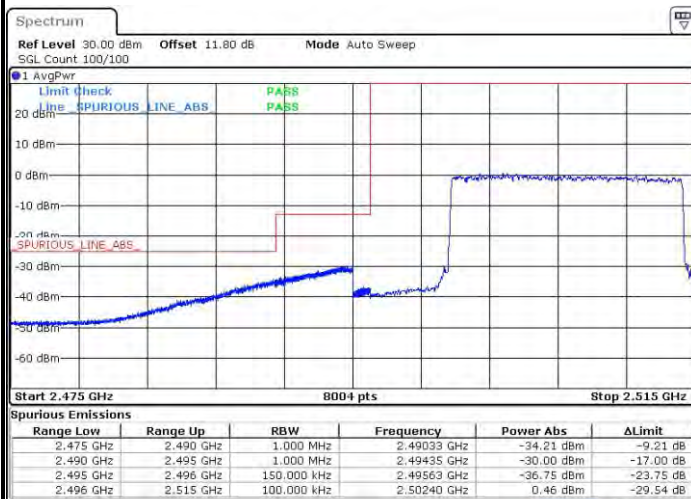
## Lowest Band Edge / 1 RB



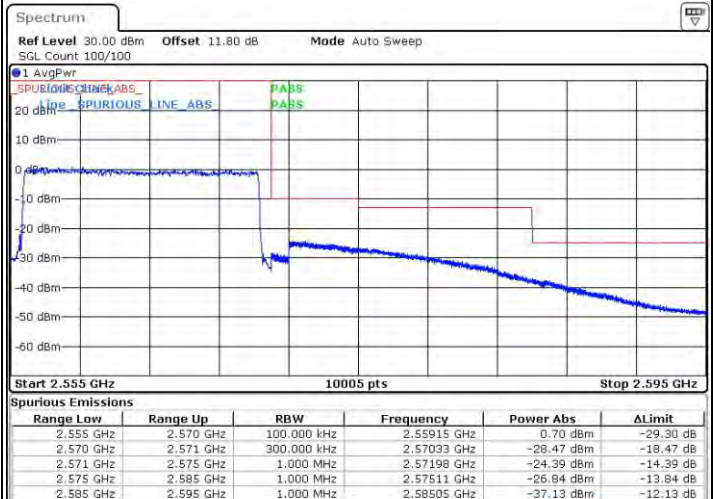
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



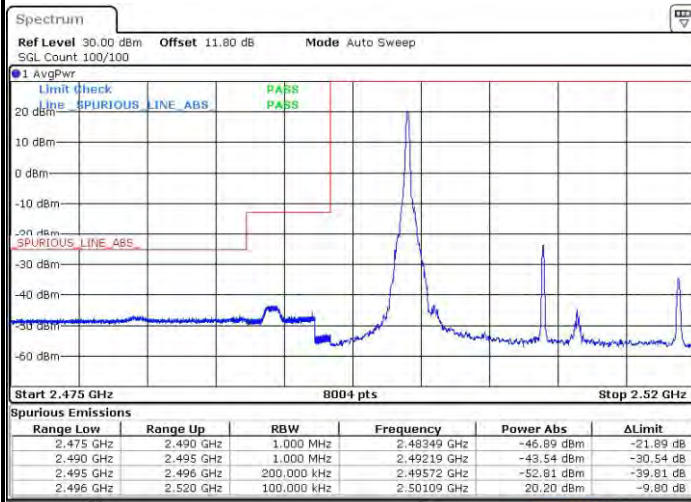
## Highest Band Edge / Full RB



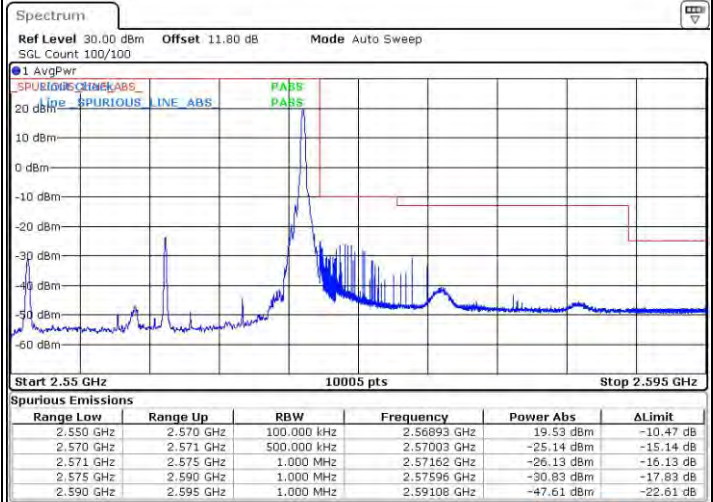


## LTE Band 7 / 20MHz / QPSK

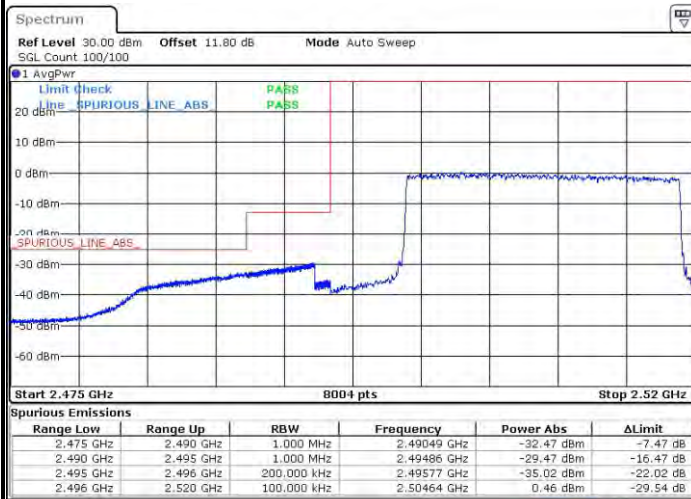
## Lowest Band Edge / 1 RB



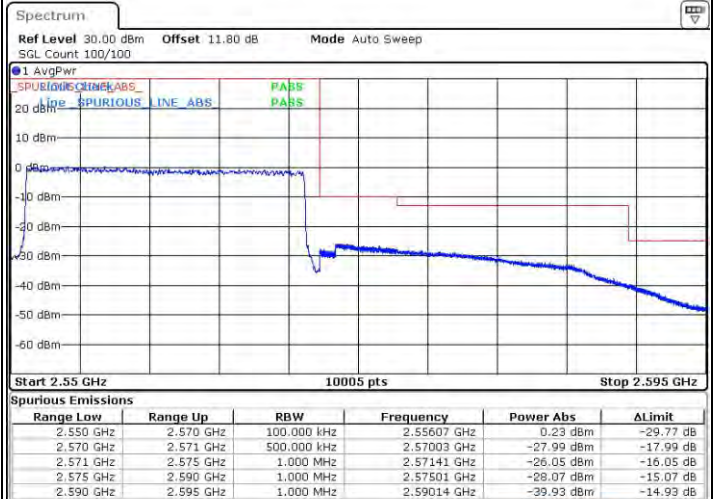
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



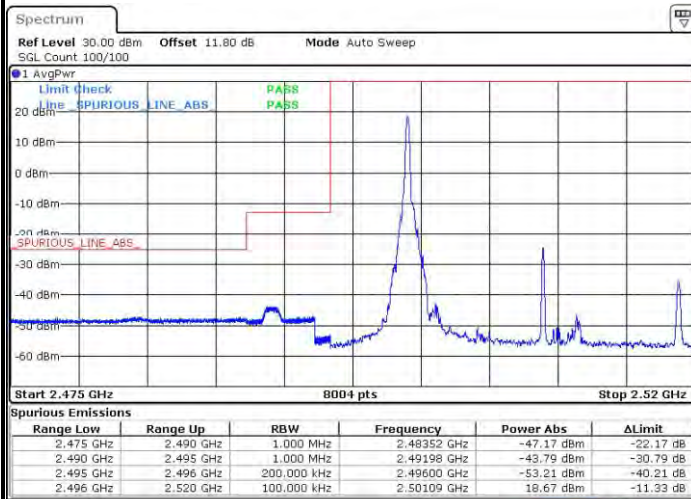
## Highest Band Edge / Full RB





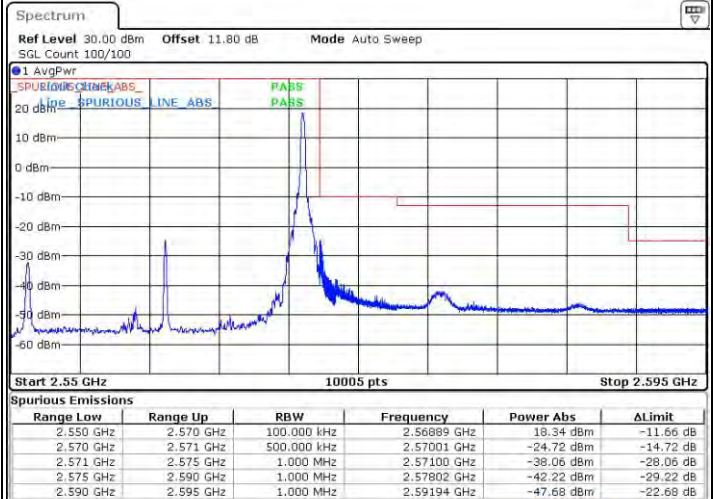
## LTE Band 7 / 20MHz / 16QAM

## Lowest Band Edge / 1 RB



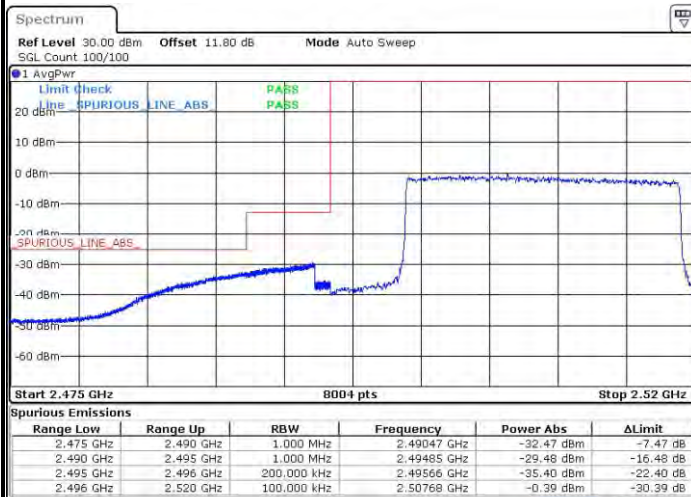
Date: 22 MAY 2016 05:31:35

## Highest Band Edge / 1RB



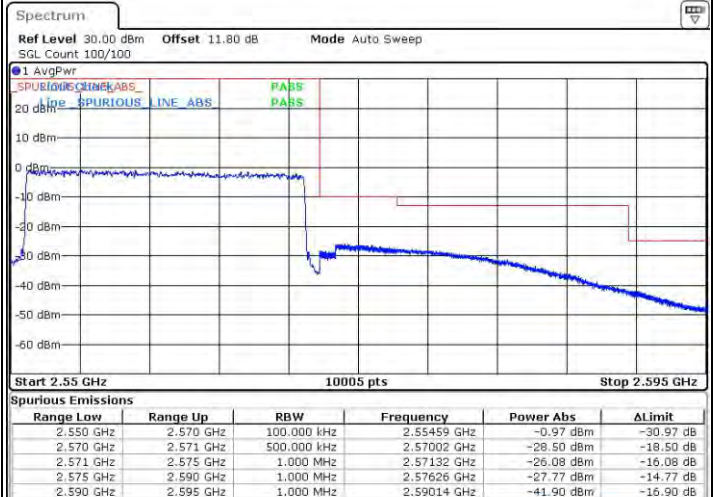
Date: 22 MAY 2016 05:36:15

## Lowest Band Edge / Full RB



Date: 22 MAY 2016 05:33:55

## Highest Band Edge / Full RB



Date: 22 MAY 2016 05:37:25

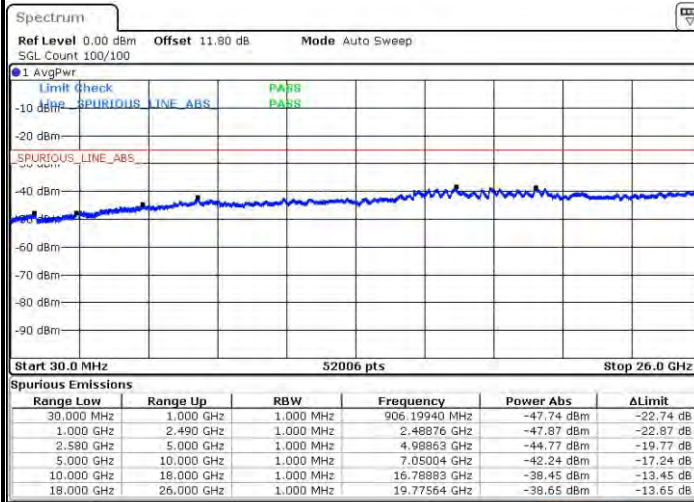


## **Conducted Spurious Emission**



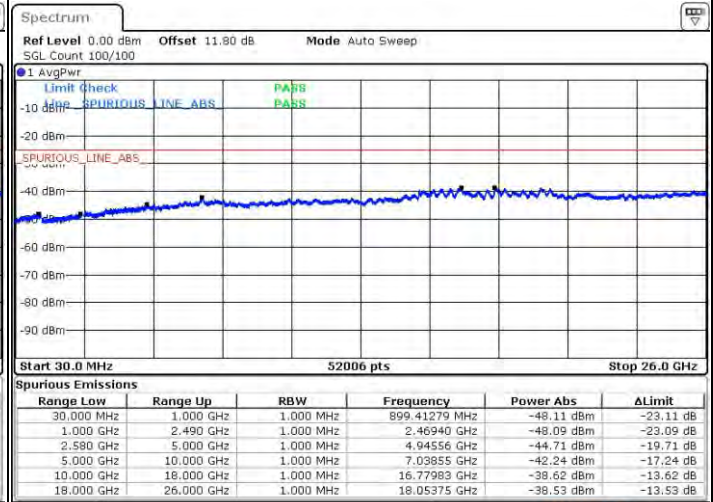
## LTE Band 7 / 5MHz

## Lowest Channel / QPSK



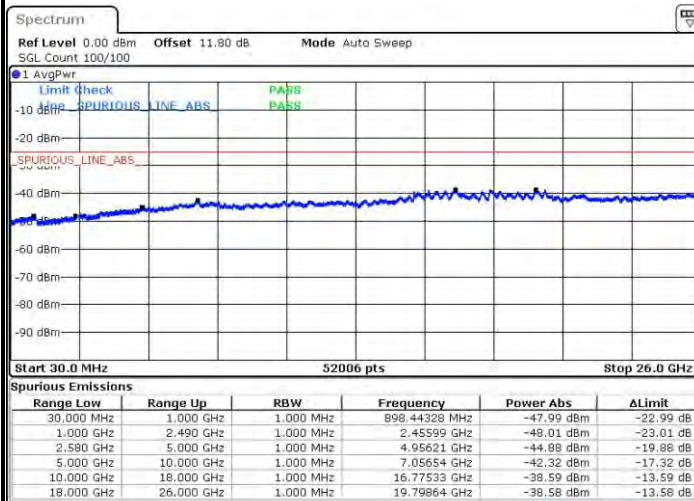
Date: 22 MAY 2016 05:44:17

## Lowest Channel / 16QAM



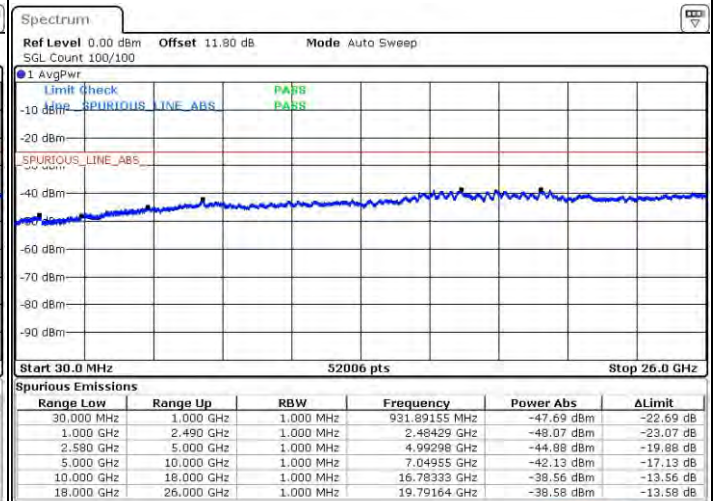
Date: 22 MAY 2016 05:45:11

## Middle Channel / QPSK



Date: 22 MAY 2016 05:46:05

## Middle Channel / 16QAM

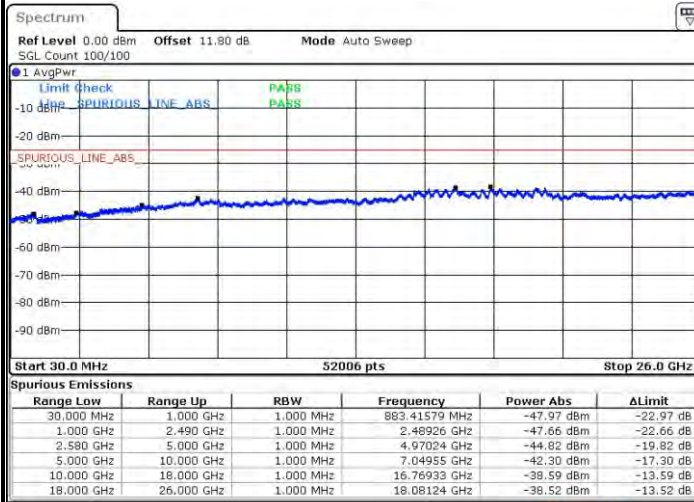


Date: 22 MAY 2016 05:46:58



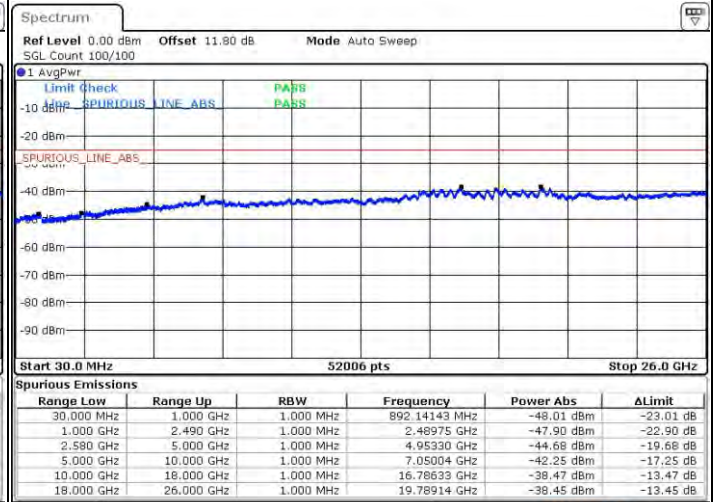
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 22 MAY 2016 05:47:52

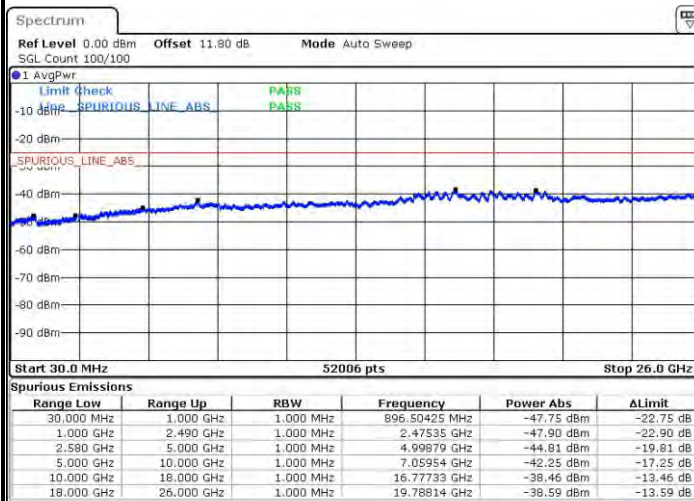
## Highest Channel / 16QAM



Date: 22 MAY 2016 05:48:46

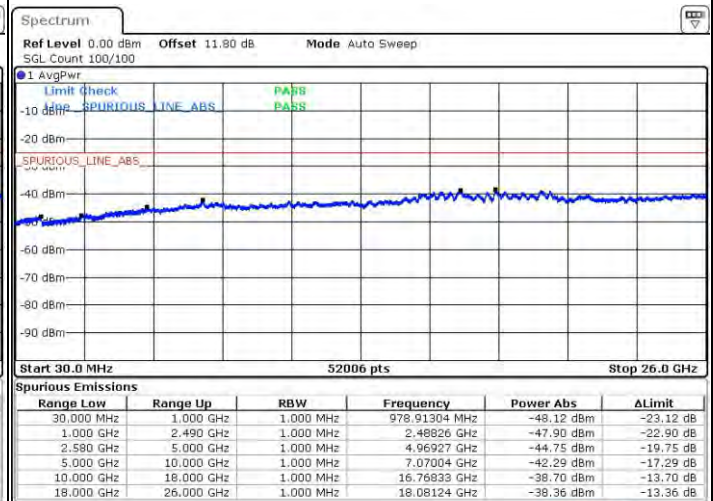
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 22 MAY 2016 05:49:40

## Lowest Channel / 16QAM

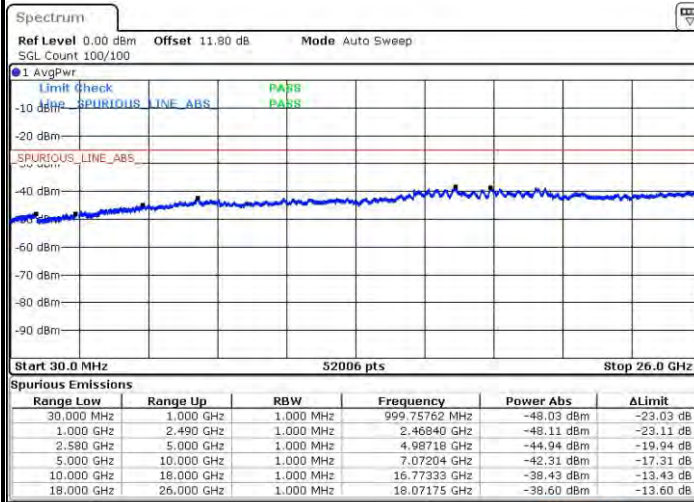


Date: 22 MAY 2016 05:50:34



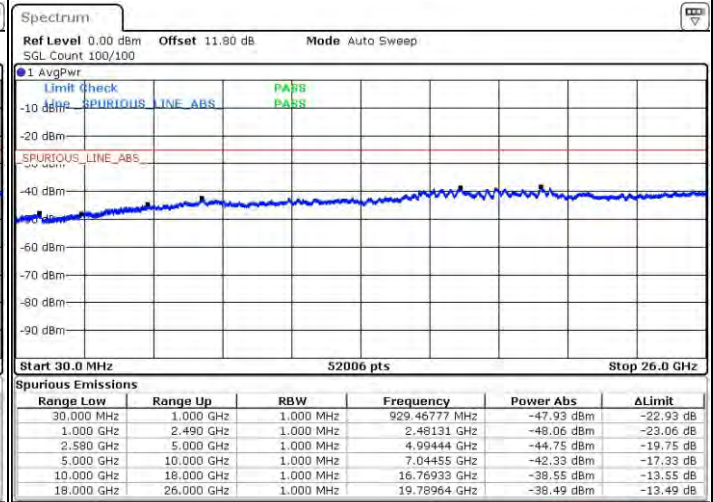
## LTE Band 7 / 10MHz

## Middle Channel / QPSK



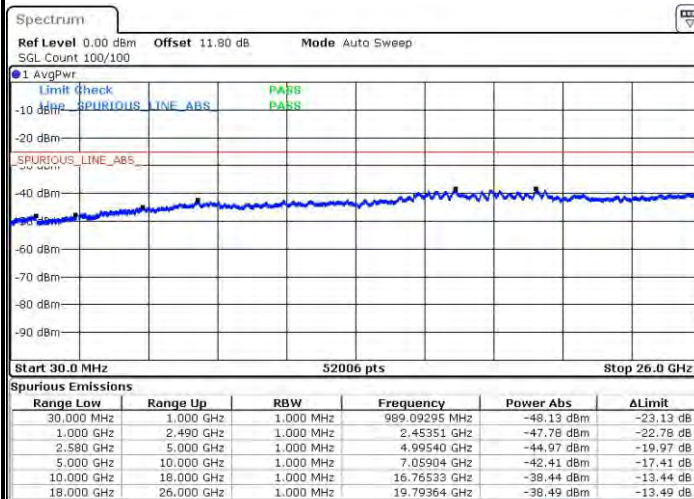
Date: 22 MAY 2016 05:51:27

## Middle Channel / 16QAM



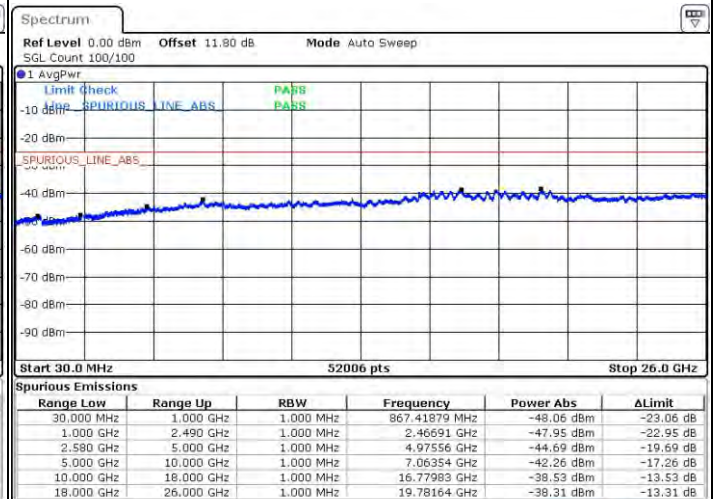
Date: 22 MAY 2016 05:52:21

## Highest Channel / QPSK



Date: 22 MAY 2016 05:53:15

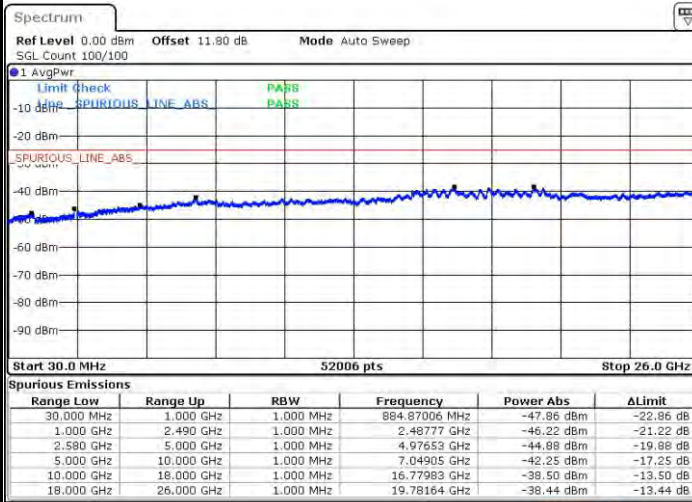
## Highest Channel / 16QAM



Date: 22 MAY 2016 05:54:09

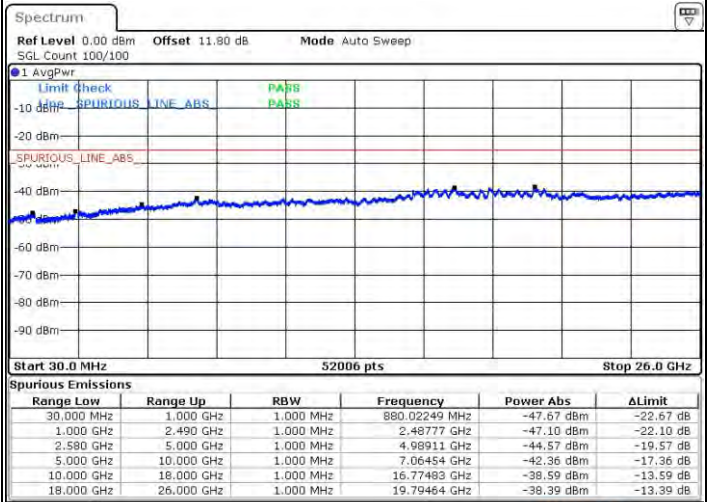
## LTE Band 7 / 15MHz

### Lowest Channel / QPSK



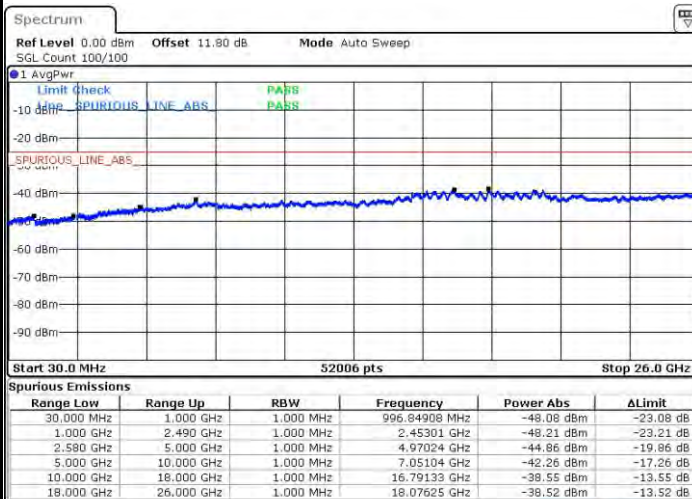
Date: 22 MAY 2016 05:55:02

### Lowest Channel / 16QAM



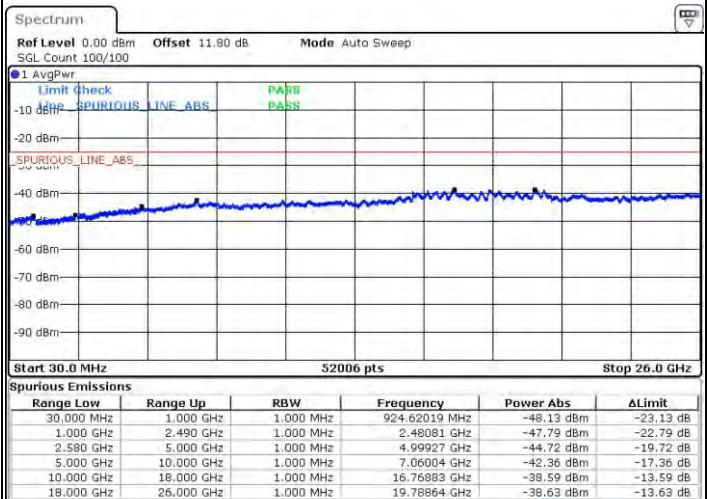
Date: 22 MAY 2016 05:55:56

### Middle Channel / QPSK



Date: 22 MAY 2016 05:56:50

### Middle Channel / 16QAM

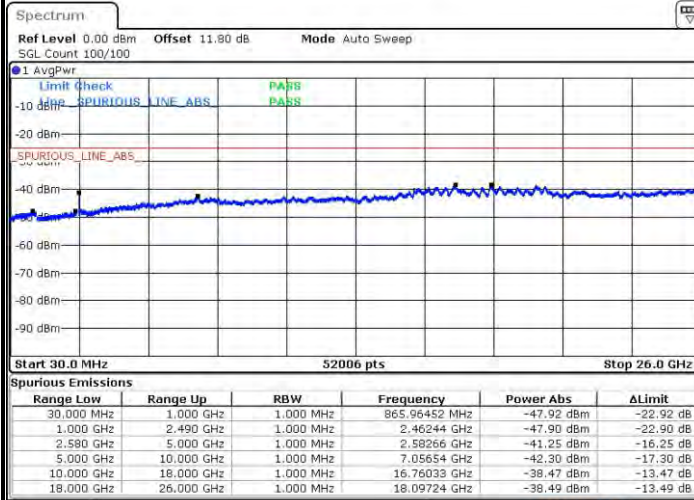


Date: 22 MAY 2016 05:57:44



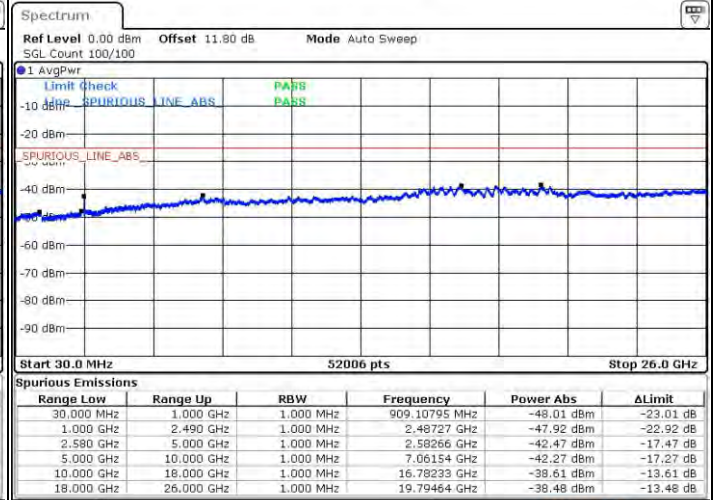
## LTE Band7 / 15MHz

## Highest Channel / QPSK



Date: 22 MAY 2016 05:58:38

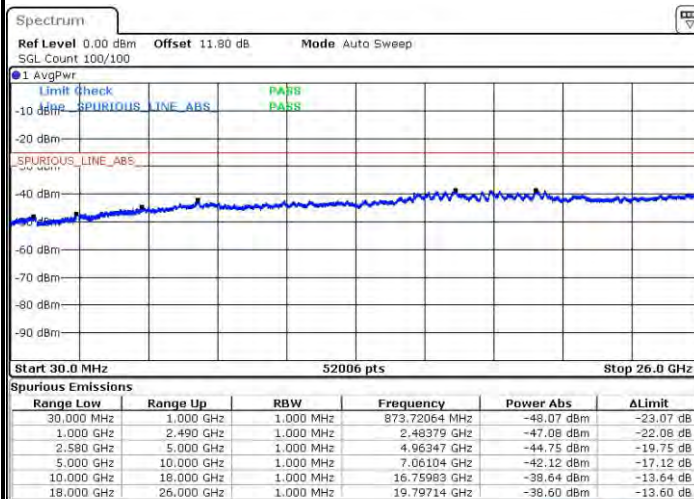
## Highest Channel / 16QAM



Date: 22 MAY 2016 05:59:31

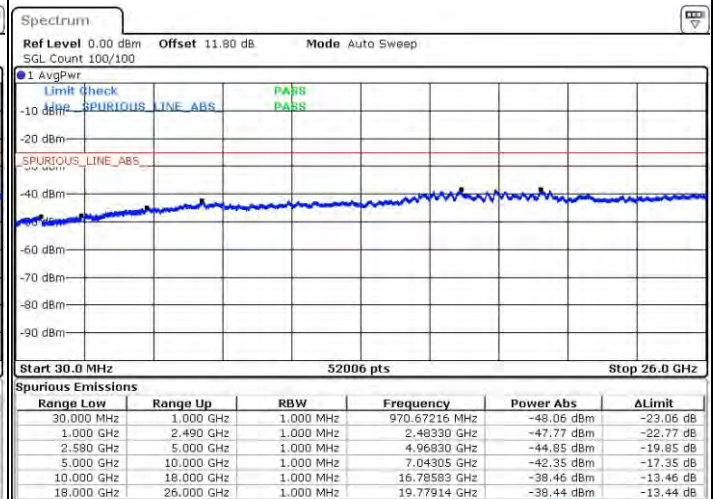
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



Date: 22 MAY 2016 06:00:25

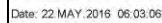
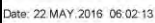
## Lowest Channel / 16QAM



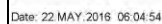
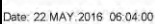
Date: 22 MAY 2016 06:01:19



### Middle Channel / 16QAM



### Highest Channel / 16QAM



## Frequency Stability

| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0002                             | PASS    |
| 40               | Normal Voltage    | 0.0001                             |         |
| 30               | Normal Voltage    | 0.0090                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0003                             |         |
| 0                | Normal Voltage    | 0.0089                             |         |
| -10              | Normal Voltage    | 0.0082                             |         |
| -20              | Normal Voltage    | 0.0085                             |         |
| -30              | Normal Voltage    | 0.0083                             |         |
| 20               | Maximum Voltage   | 0.0083                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0001                             |         |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3V. ; Maximum Voltage =4.4 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

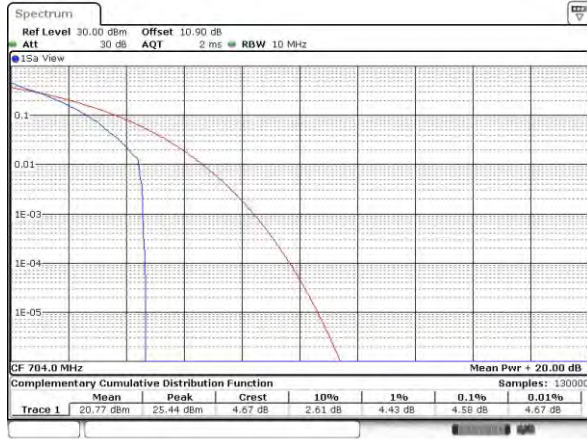
### Peak-to-Average Ratio

| Mode       | LTE Band 12 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.58                | 5.1     | 5.22  | 5.97    | PASS        |
| Middle CH  | 4.46                | 5.22    | 4.9   | 6.03    |             |
| Highest CH | 4.61                | 5.16    | 5.57  | 6.03    |             |

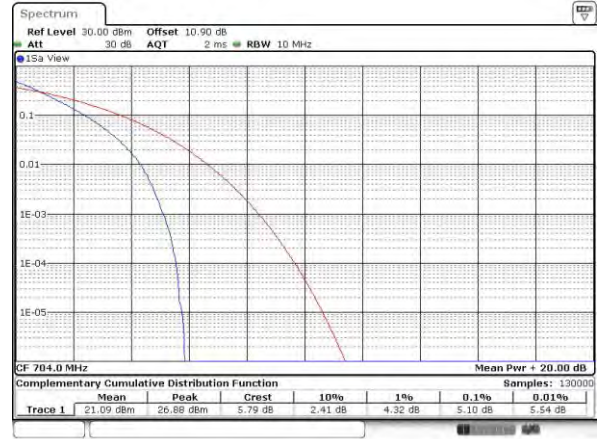


## LTE Band 12 / 10MHz / QPSK

## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



**LTE Band 12 / 10MHz / 16QAM**
**Lowest Channel / 1RB**


Date: 22 MAY 2016 01:15:25

**Lowest Channel / Full RB**


Date: 22 MAY 2016 01:15:14

**Middle Channel / 1RB**


Date: 22 MAY 2016 01:15:40

**Middle Channel / Full RB**


Date: 22 MAY 2016 01:15:55

**Highest Channel / 1RB**


Date: 22 MAY 2016 01:16:19

**Highest Channel / Full RB**


Date: 22 MAY 2016 01:16:07



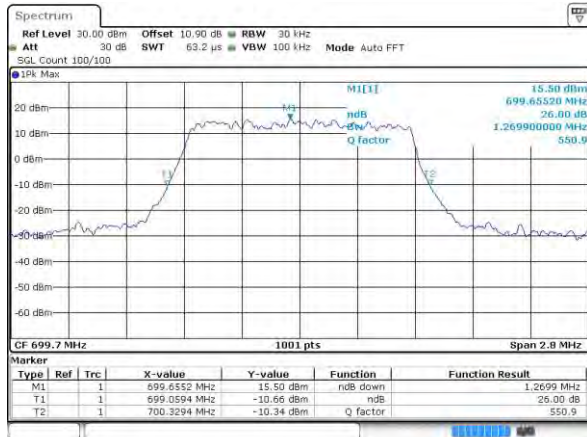
**26dB Bandwidth**

| Mode       | LTE Band 12 : 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  | 1.27                       | 1.26  | 3.02 | 3.03  | 5    | 4.94  | 9.85  | 9.91  | -     | -     | -     | -     |
| Middle CH  | 1.26                       | 1.25  | 3.02 | 2.99  | 4.91 | 4.85  | 9.95  | 9.79  | -     | -     | -     | -     |
| Highest CH | 1.3                        | 1.28  | 3.02 | 3     | 4.99 | 4.85  | 9.85  | 9.75  | -     | -     | -     | -     |



## LTE Band 12

## Lowest Channel / 1.4MHz / QPSK



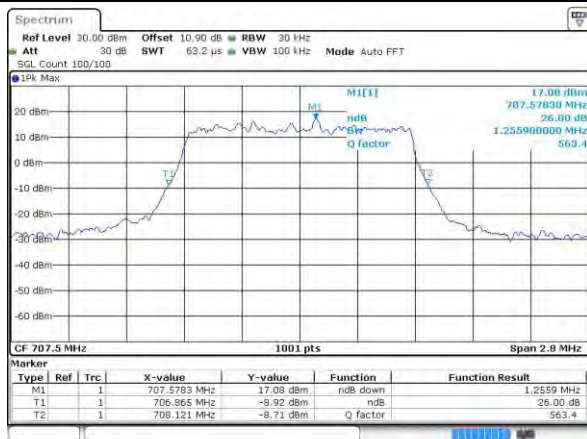
Date: 21 MAY 2016 22:25:06

## Lowest Channel / 1.4MHz / 16QAM



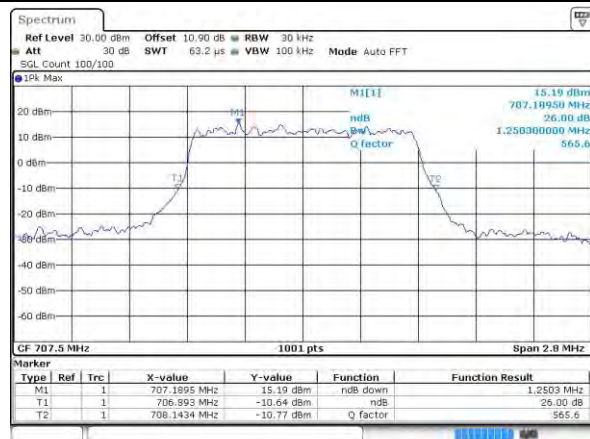
Date: 21 MAY 2016 22:24:55

## Middle Channel / 1.4MHz / QPSK



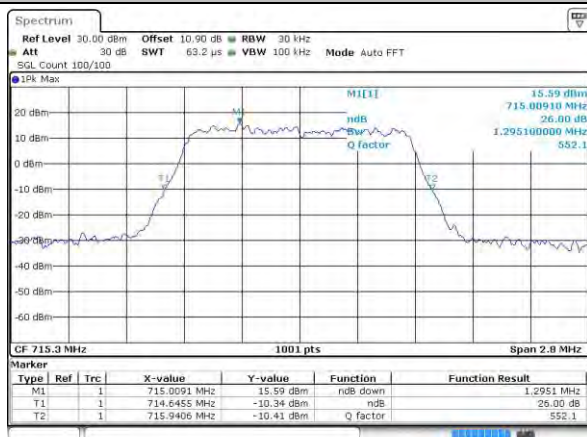
Date: 21 MAY 2016 22:35:36

## Middle Channel / 1.4MHz / 16QAM



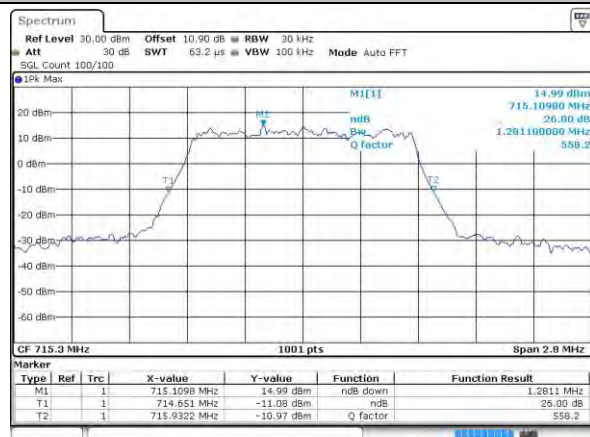
Date: 21 MAY 2016 22:35:47

## Highest Channel / 1.4MHz / QPSK



Date: 21 MAY 2016 22:38:18

## Highest Channel / 1.4MHz / 16QAM

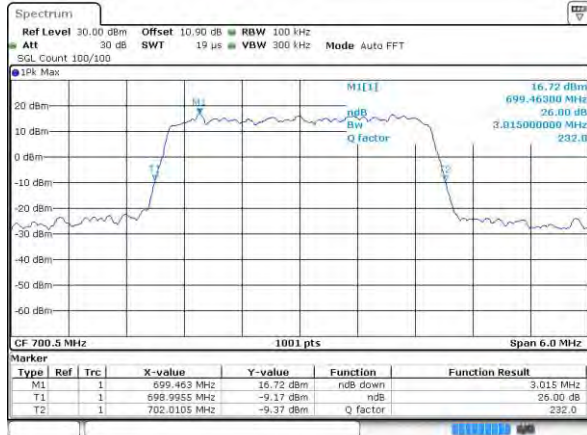


Date: 21 MAY 2016 22:38:07



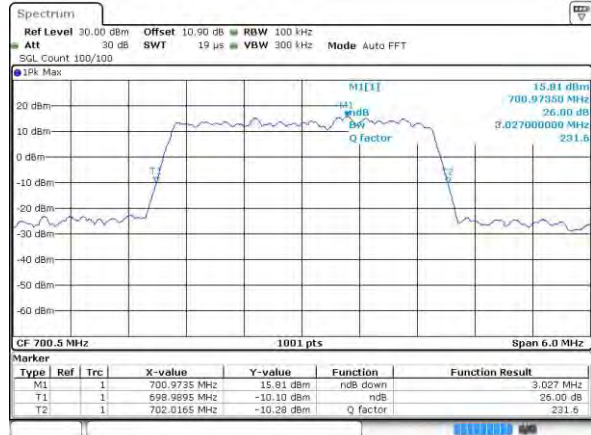
## LTE Band 12

## Lowest Channel / 3MHz / QPSK



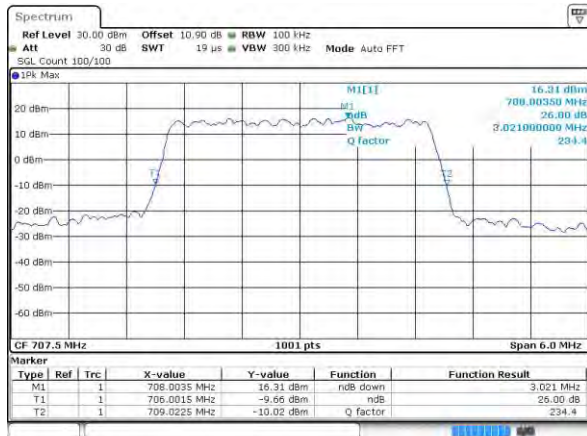
Date: 21 MAY 2016 22:48:58

## Lowest Channel / 3MHz / 16QAM



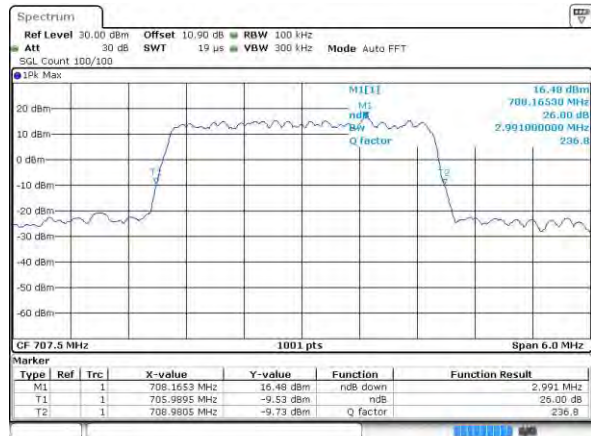
Date: 21 MAY 2016 22:48:48

## Middle Channel / 3MHz / QPSK



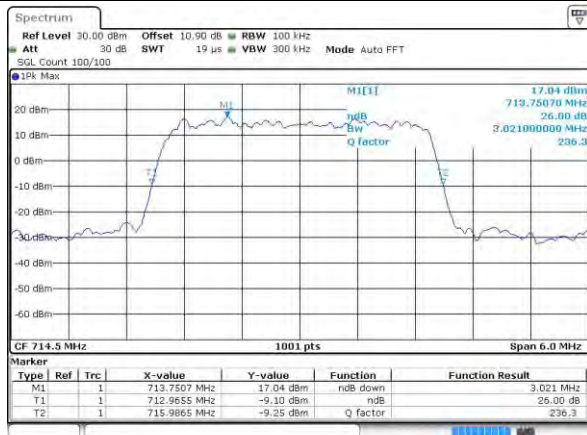
Date: 21 MAY 2016 22:58:28

## Middle Channel / 3MHz / 16QAM



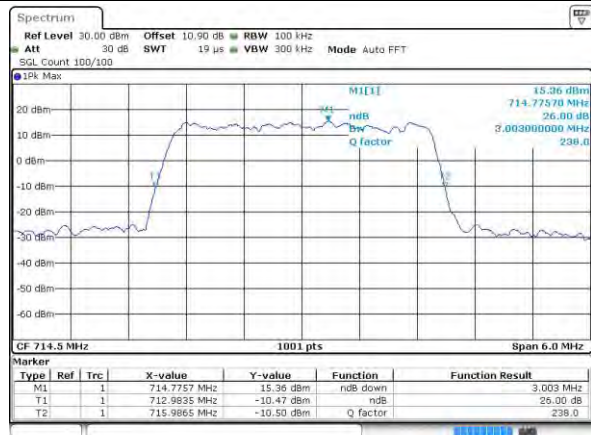
Date: 21 MAY 2016 22:58:39

## Highest Channel / 3MHz / QPSK



Date: 21 MAY 2016 23:02:10

## Highest Channel / 3MHz / 16QAM

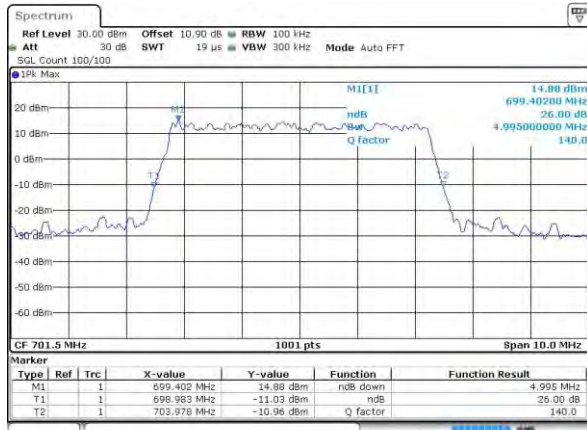


Date: 21 MAY 2016 23:02:00



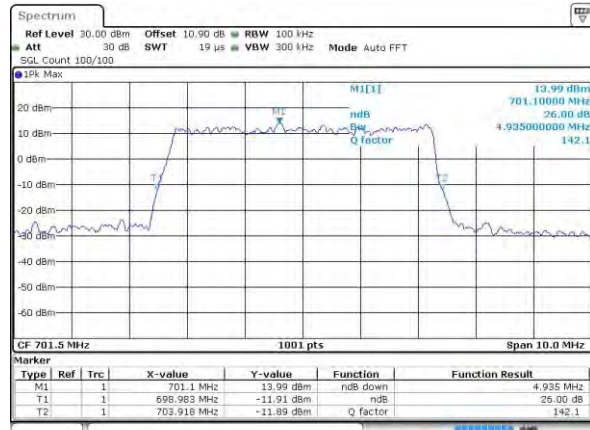
## LTE Band 12

## Lowest Channel / 5MHz / QPSK



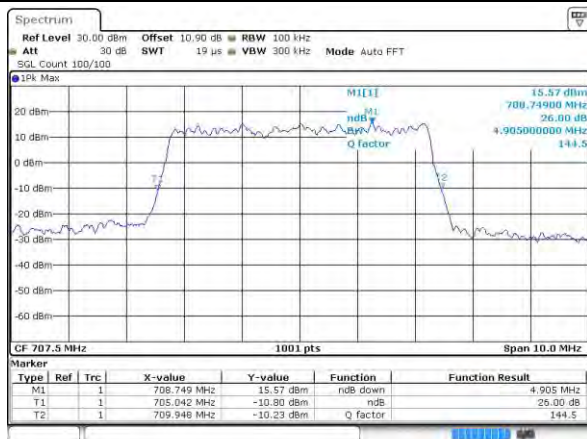
Date: 21 MAY 2016 23:12:51

## Lowest Channel / 5MHz / 16QAM



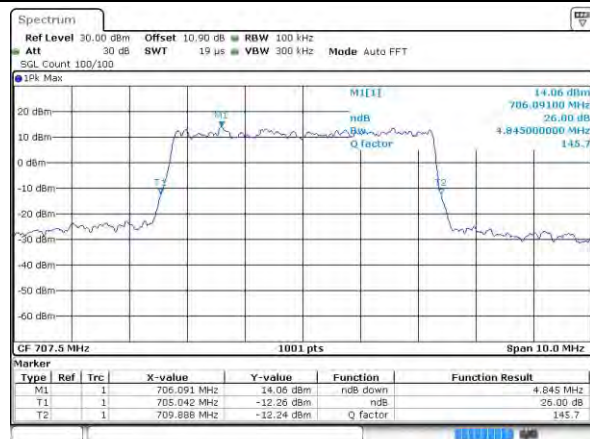
Date: 21 MAY 2016 23:12:40

## Middle Channel / 5MHz / QPSK



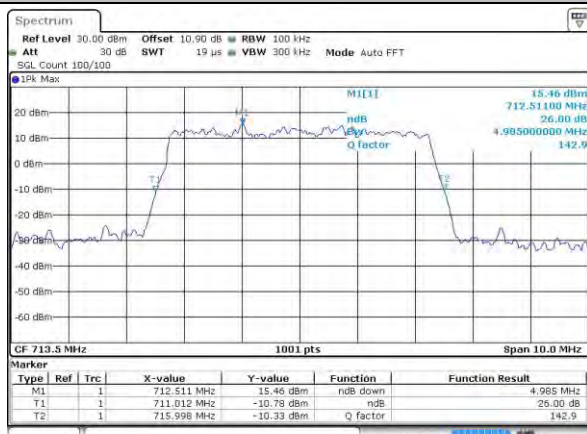
Date: 21 MAY 2016 23:23:21

## Middle Channel / 5MHz / 16QAM



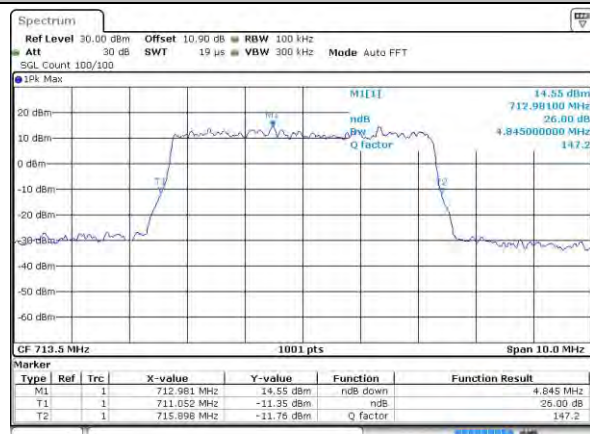
Date: 21 MAY 2016 23:23:32

## Highest Channel / 5MHz / QPSK



Date: 21 MAY 2016 23:26:03

## Highest Channel / 5MHz / 16QAM

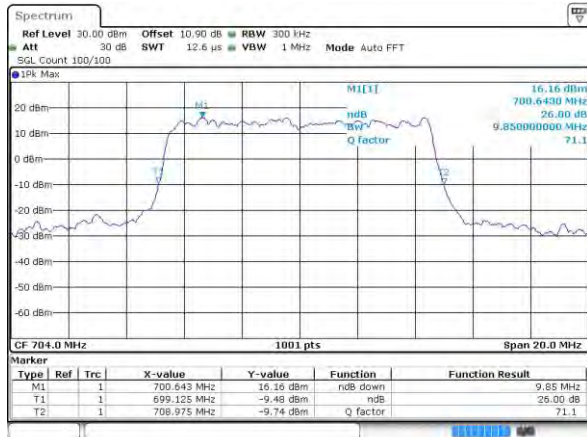


Date: 21 MAY 2016 23:25:52

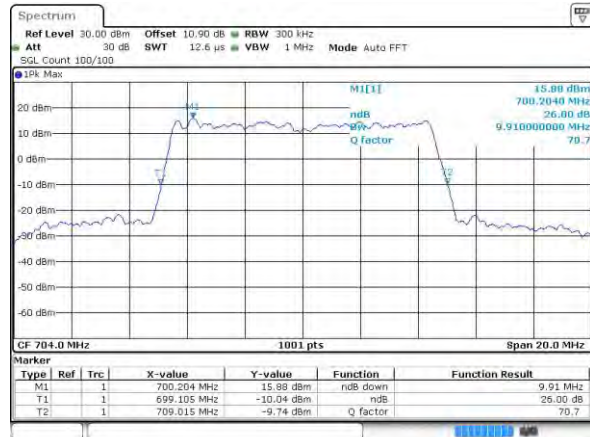


## LTE Band 12

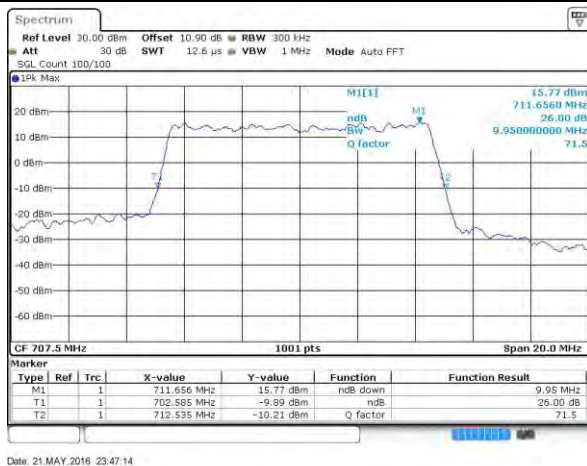
## Lowest Channel / 10MHz / QPSK



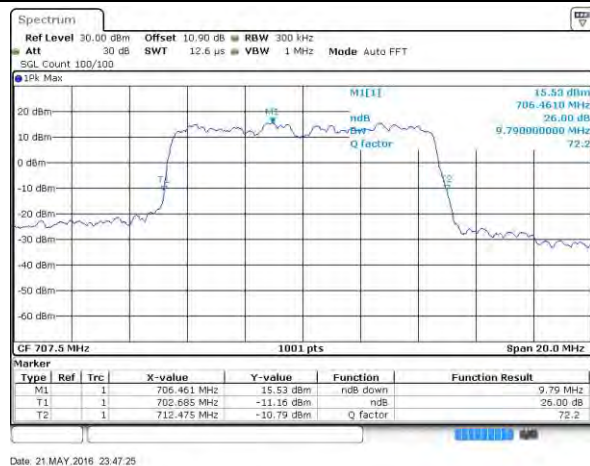
## Lowest Channel / 10MHz / 16QAM



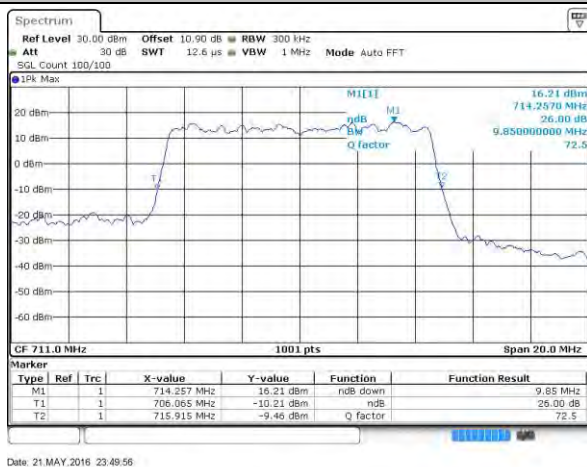
## Middle Channel / 10MHz / QPSK



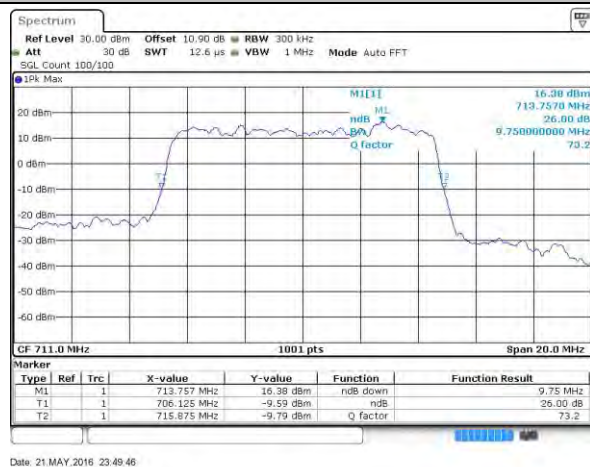
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM





## Occupied Bandwidth

| Mode       | LTE Band 12 : 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  | 1.1                       | 1.09  | 2.72 | 2.72  | 4.5  | 4.5   | 9.09  | 9.07  | -     | -     | -     | -     |
| Middle CH  | 1.1                       | 1.09  | 2.73 | 2.7   | 4.51 | 4.5   | 9.03  | 9.05  | -     | -     | -     | -     |
| Highest CH | 1.1                       | 1.1   | 2.72 | 2.7   | 4.49 | 4.5   | 9.05  | 9.03  | -     | -     | -     | -     |