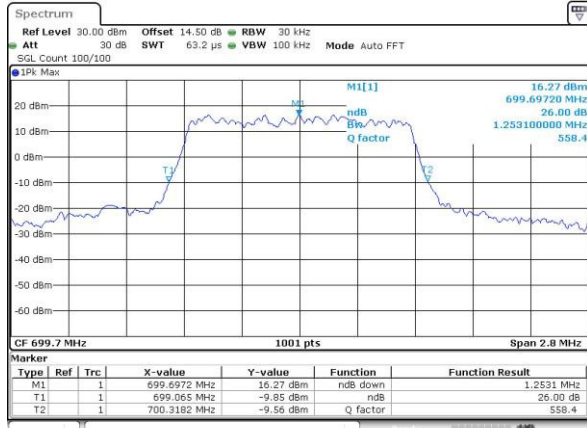




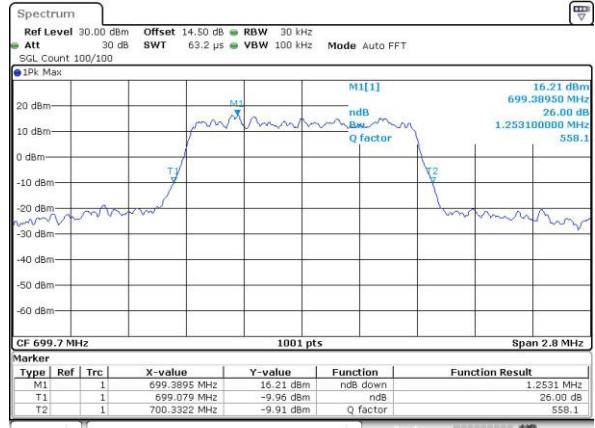
## LTE Band 12

## Lowest Channel / 1.4MHz / QPSK



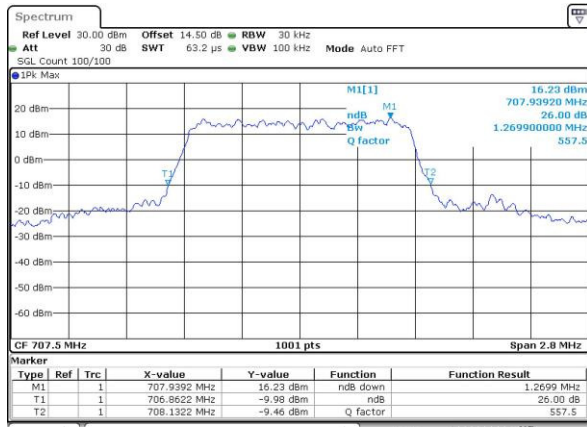
Date: 23.DEC.2015 19:21:13

## Lowest Channel / 1.4MHz / 16QAM



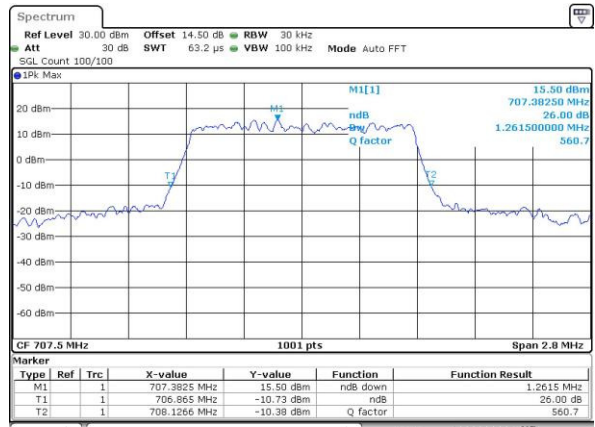
Date: 23.DEC.2015 19:21:22

## Middle Channel / 1.4MHz / QPSK



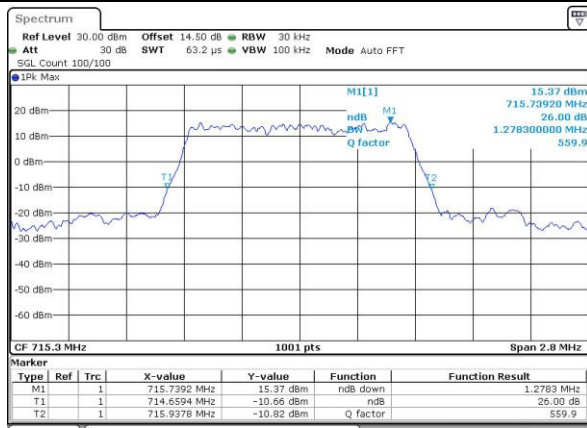
Date: 23.DEC.2015 19:32:07

## Middle Channel / 1.4MHz / 16QAM



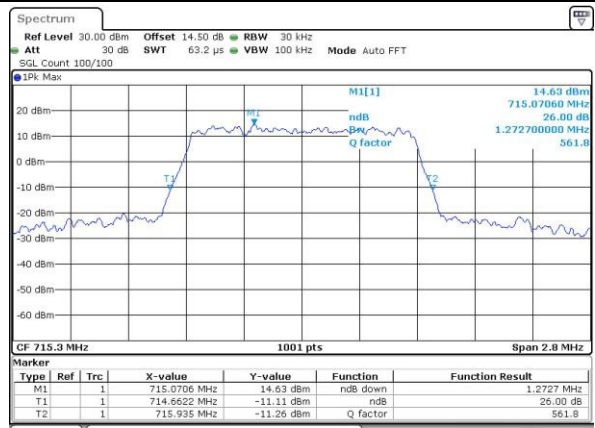
Date: 23.DEC.2015 19:32:18

## Highest Channel / 1.4MHz / QPSK



Date: 23.DEC.2015 19:34:43

## Highest Channel / 1.4MHz / 16QAM

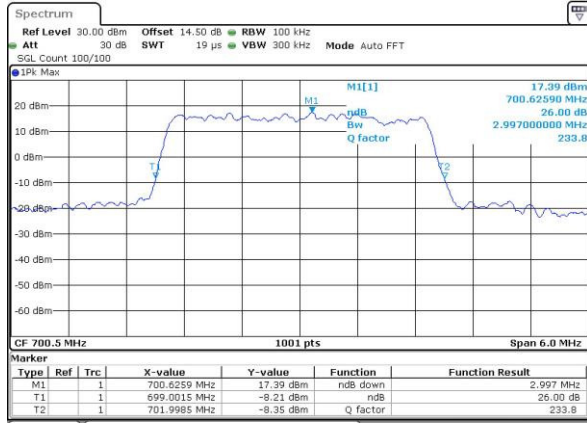


Date: 23.DEC.2015 19:34:53



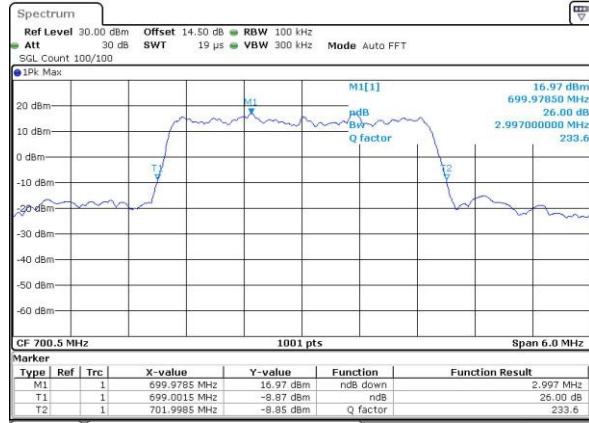
## LTE Band 12

## Lowest Channel / 3MHz / QPSK



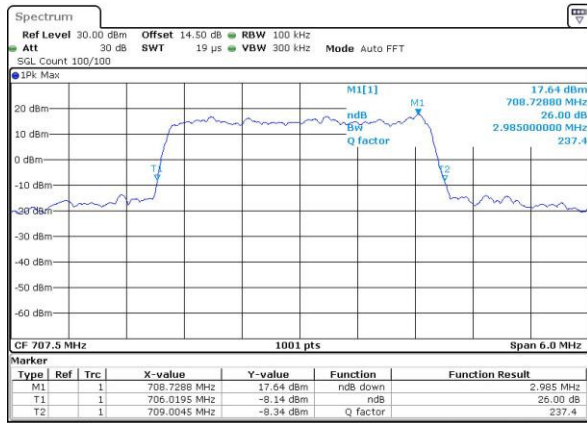
Date: 23.DEC.2015 19:45:20

## Lowest Channel / 3MHz / 16QAM



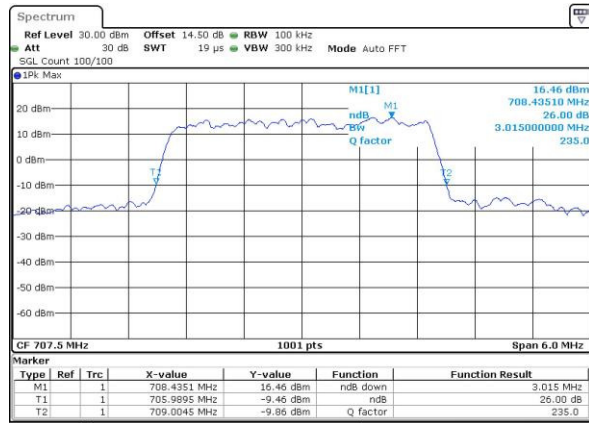
Date: 23.DEC.2015 19:45:19

## Middle Channel / 3MHz / QPSK



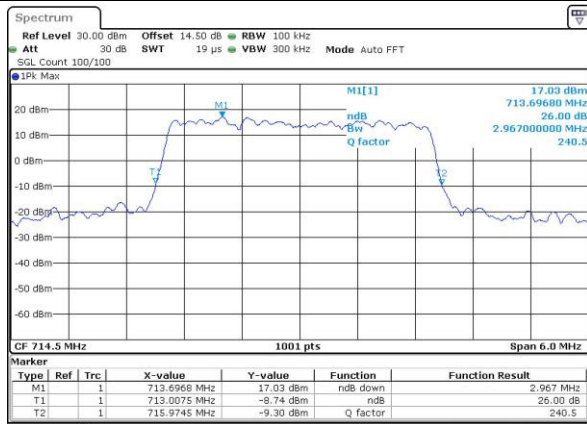
Date: 23.DEC.2015 19:46:13

## Middle Channel / 3MHz / 16QAM



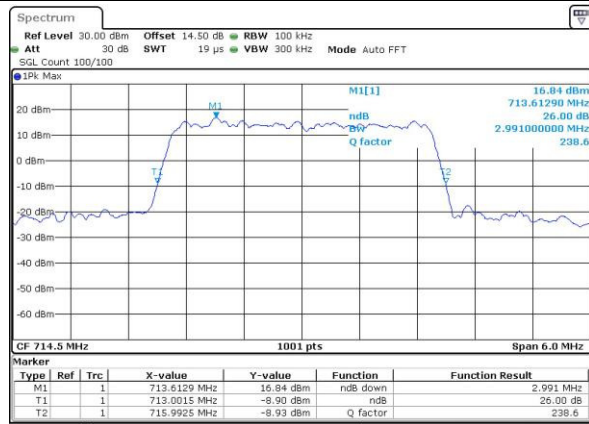
Date: 23.DEC.2015 19:46:24

## Highest Channel / 3MHz / QPSK



Date: 23.DEC.2015 19:58:49

## Highest Channel / 3MHz / 16QAM

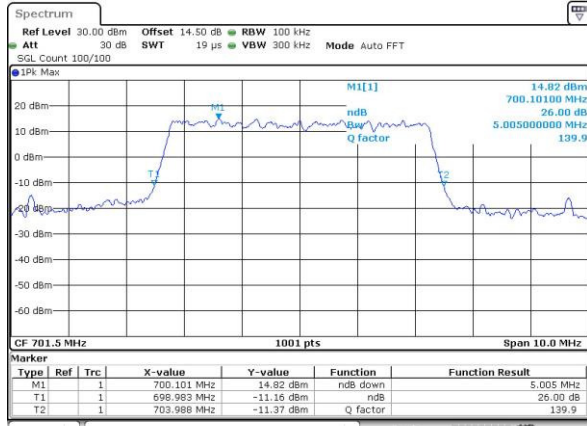


Date: 23.DEC.2015 19:58:59

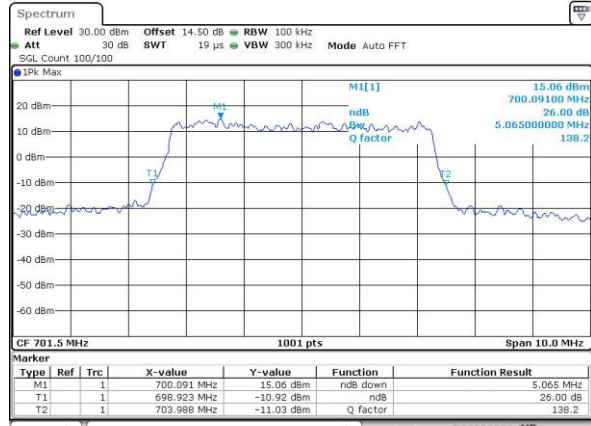


## LTE Band 12

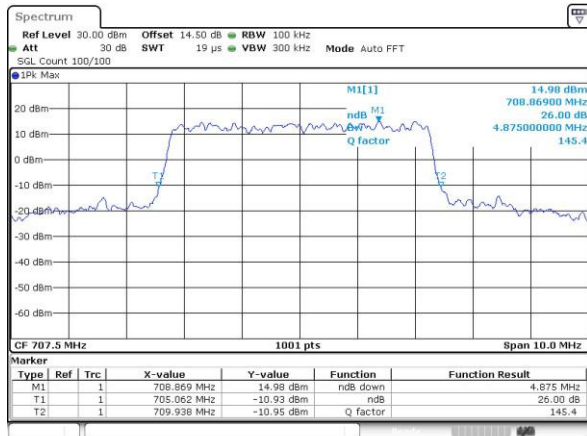
## Lowest Channel / 5MHz / QPSK



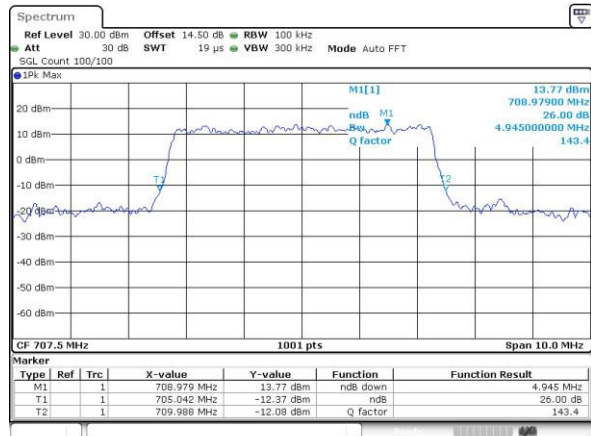
## Lowest Channel / 5MHz / 16QAM



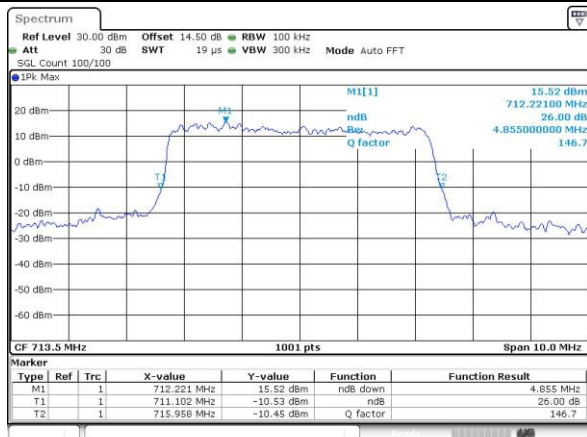
## Middle Channel / 5MHz / QPSK



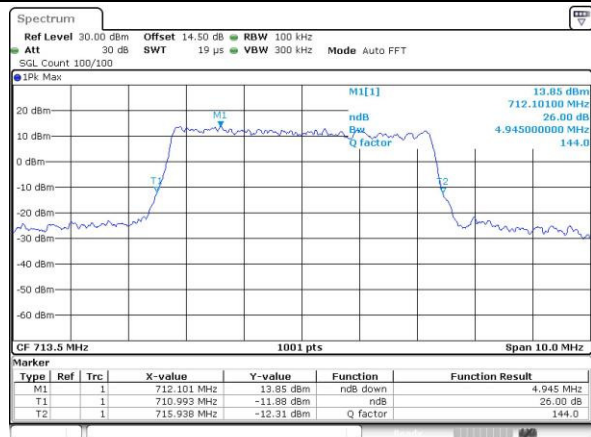
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



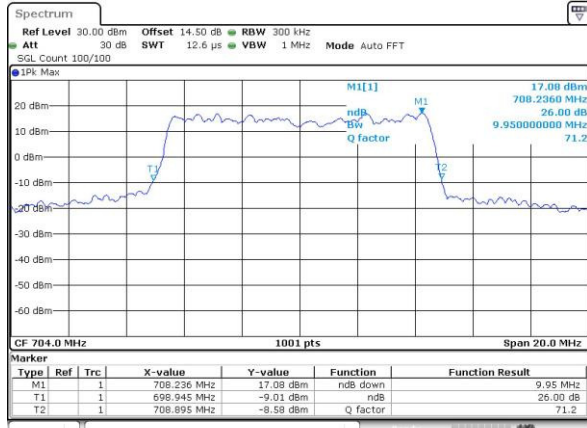
## Highest Channel / 5MHz / 16QAM



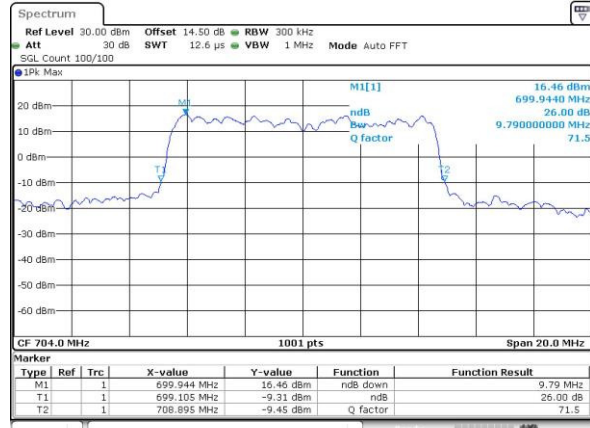


## LTE Band 12

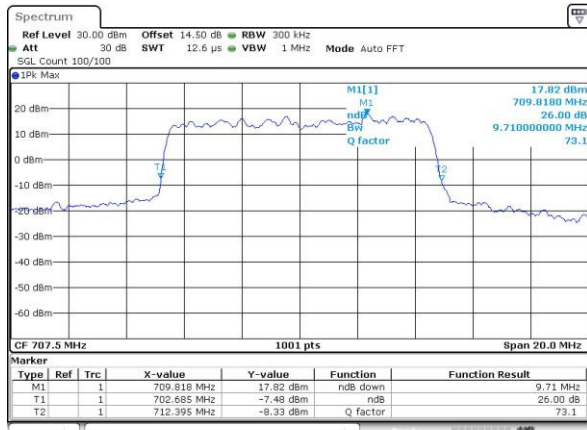
## Lowest Channel / 10MHz / QPSK



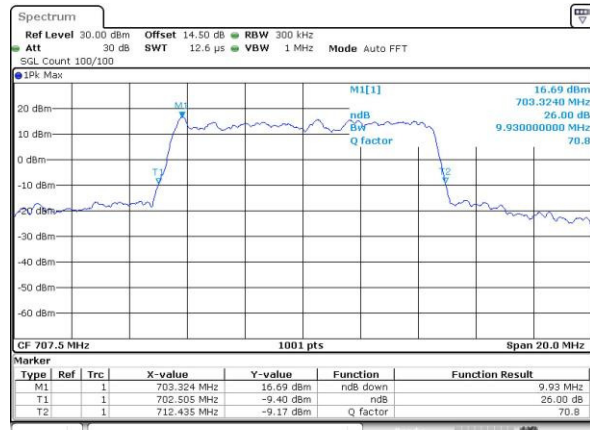
## Lowest Channel / 10MHz / 16QAM



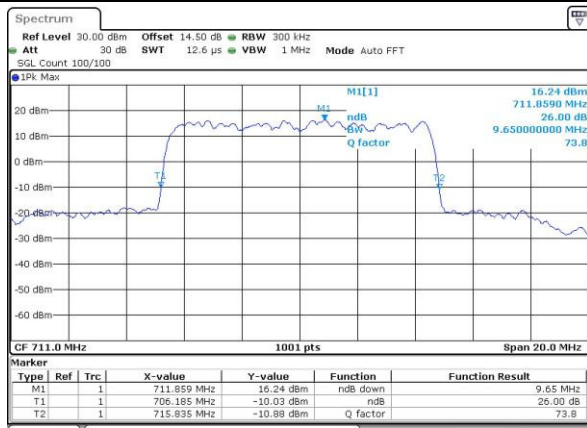
## Middle Channel / 10MHz / QPSK



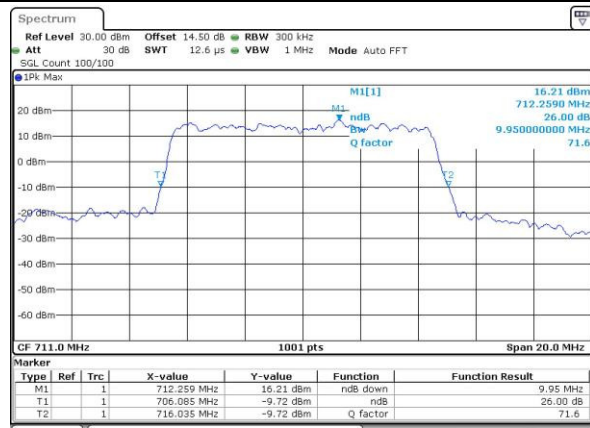
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



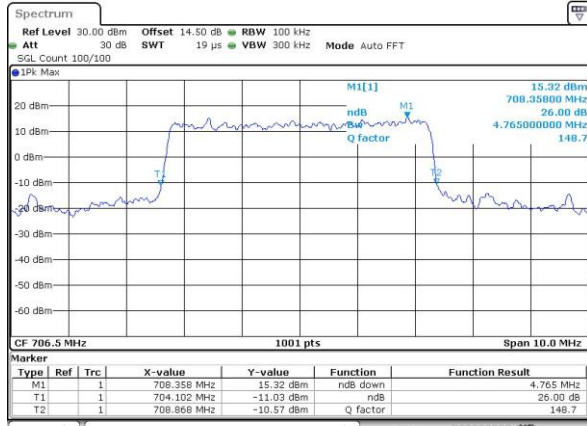
## Highest Channel / 10MHz / 16QAM





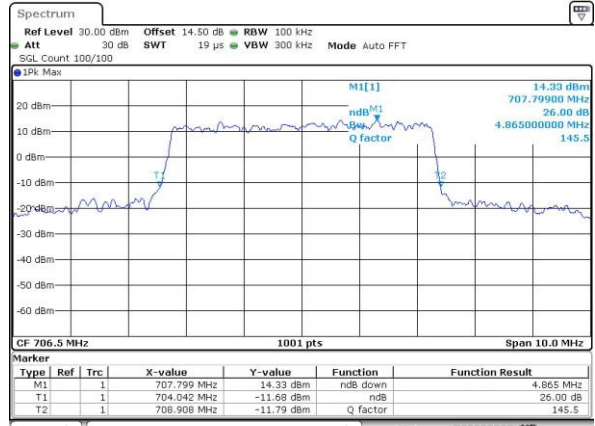
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



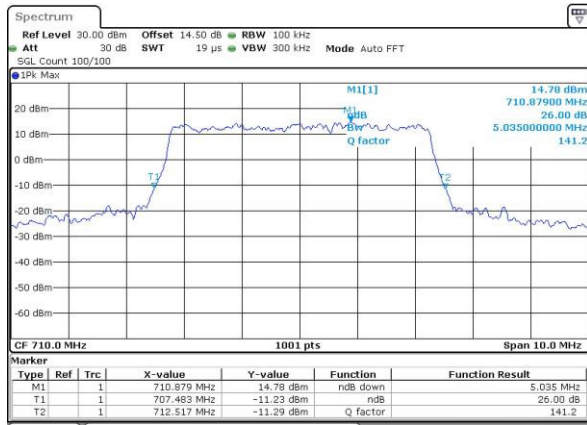
Date: 23.DEC.2015 18:13:26

## Lowest Channel / 5MHz / 16QAM



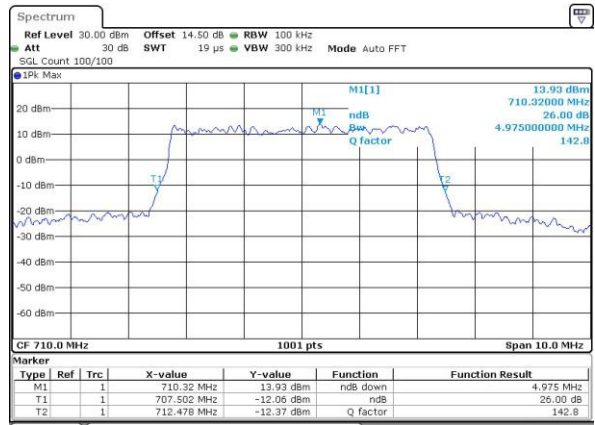
Date: 23.DEC.2015 18:13:37

## Middle Channel / 5MHz / QPSK



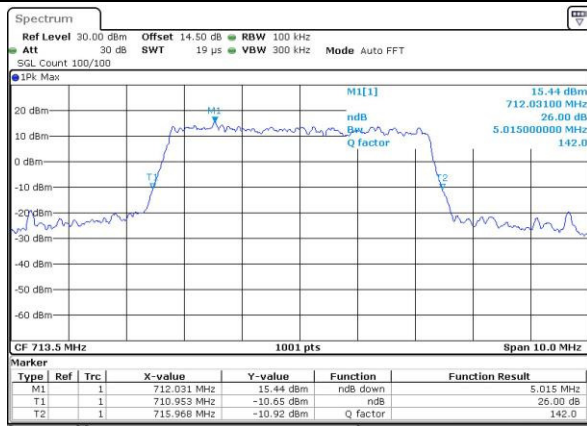
Date: 23.DEC.2015 18:24:15

## Middle Channel / 5MHz / 16QAM



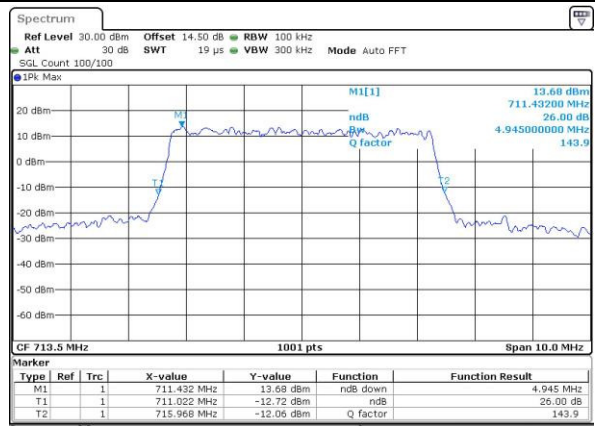
Date: 23.DEC.2015 18:24:25

## Highest Channel / 5MHz / QPSK



Date: 23.DEC.2015 18:26:50

## Highest Channel / 5MHz / 16QAM



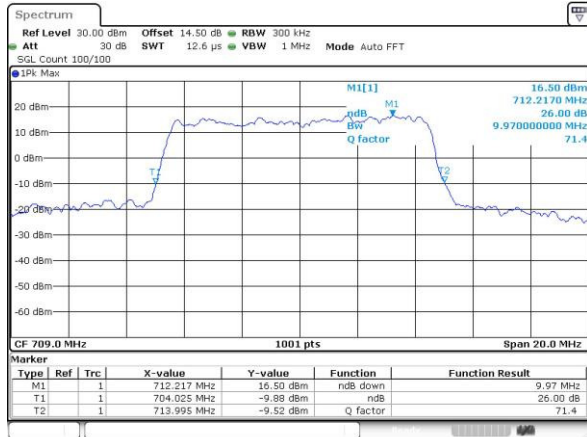
Date: 23.DEC.2015 18:27:01



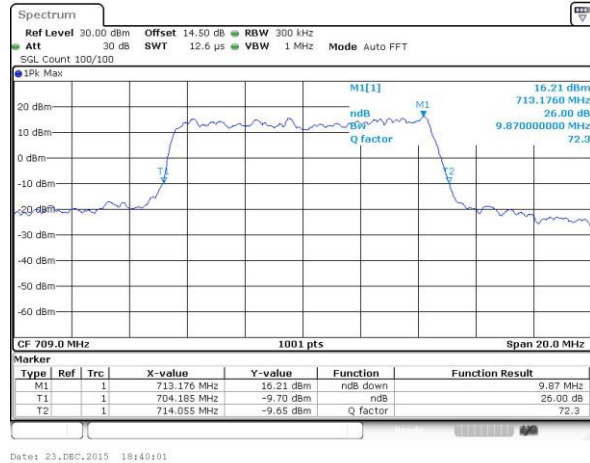


## LTE Band 17

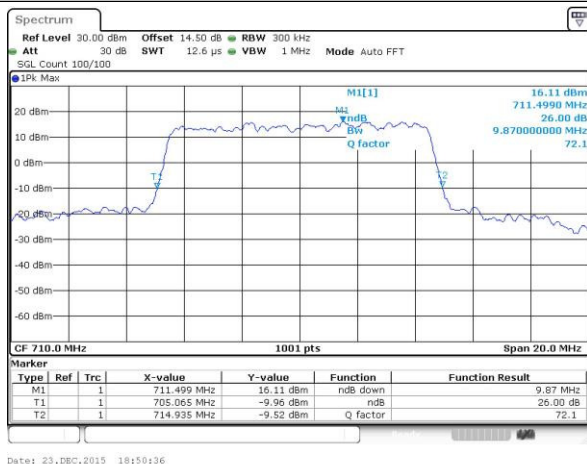
## Lowest Channel / 10MHz / QPSK



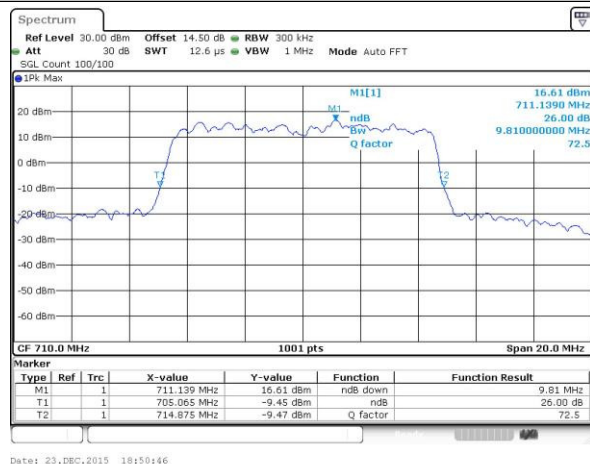
## Lowest Channel / 10MHz / 16QAM



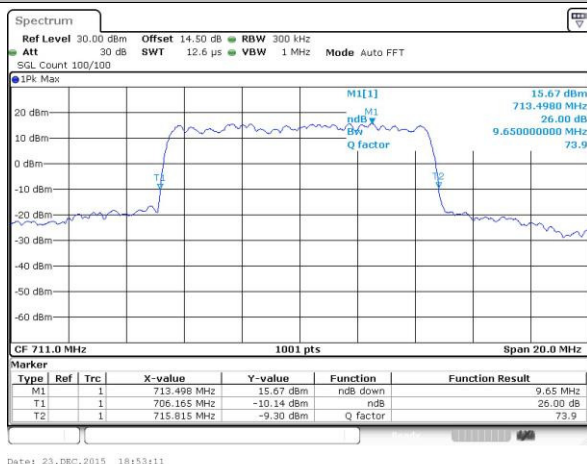
## Middle Channel / 10MHz / QPSK



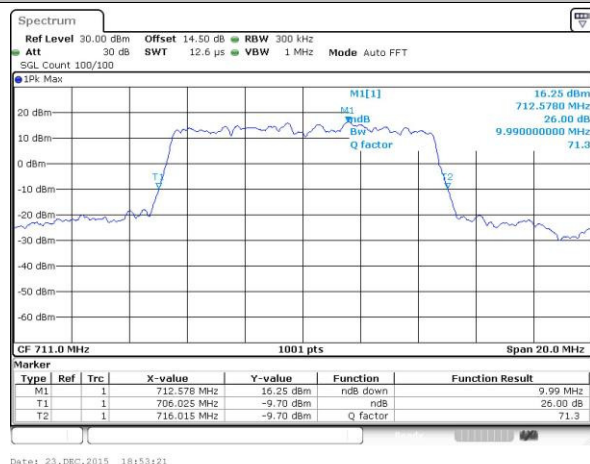
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM



**Occupied Bandwidth**

| Mode       | LTE Band 2 : 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  | 1.09                     | 1.09  | 2.72 | 2.72  | 4.51 | 4.50  | 9.01  | 9.03  | 13.52 | 13.52 | 18.42 | 18.54 |
| Middle CH  | 1.09                     | 1.09  | 2.73 | 2.72  | 4.52 | 4.52  | 9.03  | 9.07  | 13.49 | 13.46 | 18.38 | 18.54 |
| Highest CH | 1.10                     | 1.09  | 2.73 | 2.72  | 4.50 | 4.50  | 9.07  | 9.07  | 13.40 | 13.46 | 18.42 | 18.30 |

| Mode       | LTE Band 4 : 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  | 1.09                     | 1.09  | 2.72 | 2.72  | 4.51 | 4.51  | 8.99  | 8.97  | 13.49 | 13.49 | 18.50 | 18.42 |
| Middle CH  | 1.09                     | 1.09  | 2.73 | 2.72  | 4.51 | 4.51  | 8.99  | 9.05  | 13.46 | 13.46 | 18.30 | 18.50 |
| Highest CH | 1.09                     | 1.09  | 2.69 | 2.71  | 4.49 | 4.51  | 9.01  | 8.99  | 13.49 | 13.43 | 18.62 | 18.42 |

| 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  | -                        | -     | -    | -     | 4.50 | 4.51  | 9.05  | 9.07  | 13.49 | 13.49 | 18.26 | 18.46 |
| Middle CH  | -                        | -     | -    | -     | 4.50 | 4.51  | 8.99  | 8.99  | 13.49 | 13.49 | 18.38 | 18.62 |
| Highest CH | -                        | -     | -    | -     | 4.49 | 4.49  | 9.03  | 9.07  | 13.46 | 13.49 | 18.34 | 18.10 |

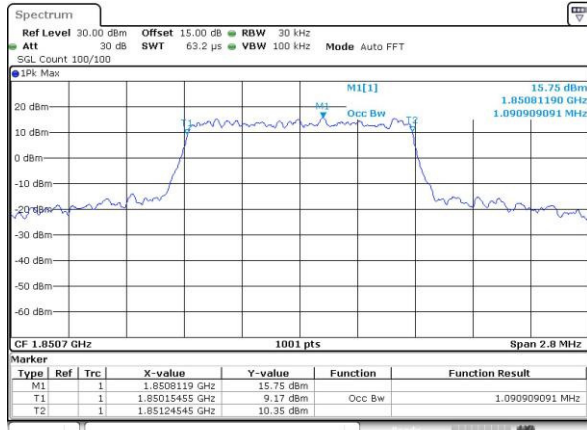
| Mode       | LTE Band 12 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                      | 1.09  | 2.71 | 2.72  | 4.53 | 4.49  | 9.05  | 9.05  | -     | -     | -     | -     |
| Middle CH  | 1.09                      | 1.09  | 2.73 | 2.72  | 4.50 | 4.49  | 9.05  | 9.07  | -     | -     | -     | -     |
| Highest CH | 1.09                      | 1.09  | 2.73 | 2.71  | 4.51 | 4.48  | 9.03  | 8.99  | -     | -     | -     | -     |

| 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  | -                         | -     | -    | -     | 4.51 | 4.50  | 8.97  | 9.03  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.50 | 4.51  | 9.03  | 9.01  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.52 | 4.51  | 8.99  | 8.99  | -     | -     | -     | -     |

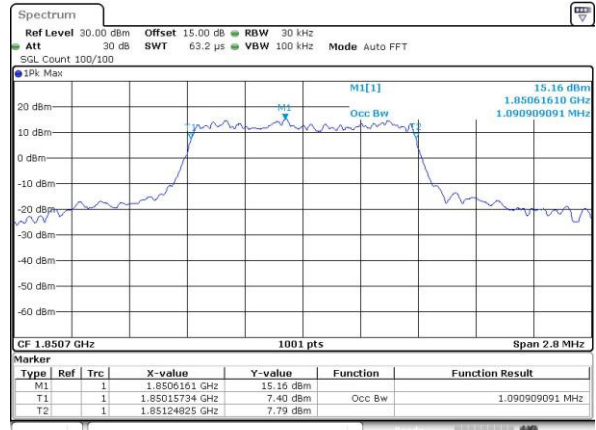


## LTE Band 2

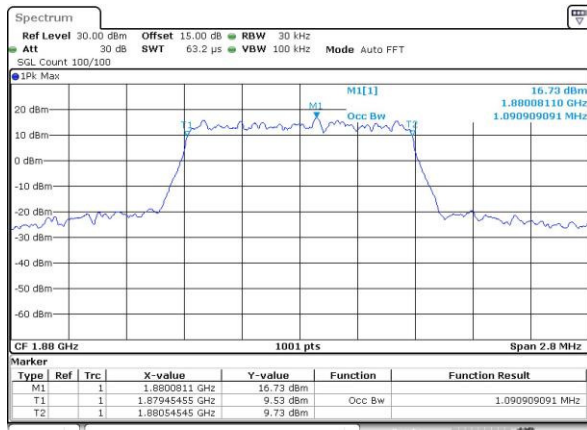
## Lowest Channel / 1.4MHz / QPSK



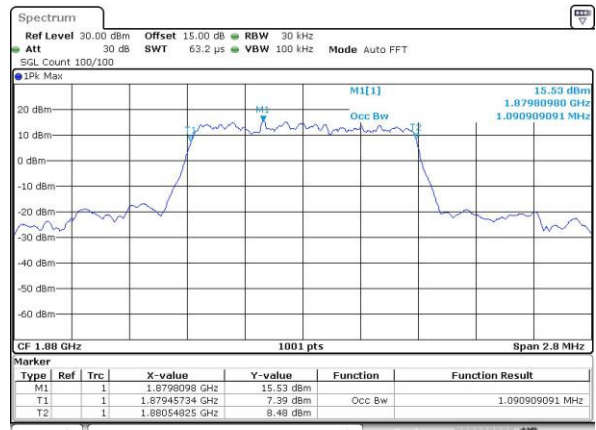
## Lowest Channel / 1.4MHz / 16QAM



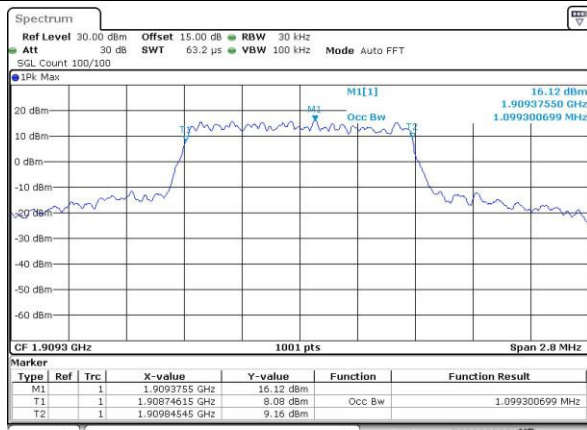
## Middle Channel / 1.4MHz / QPSK



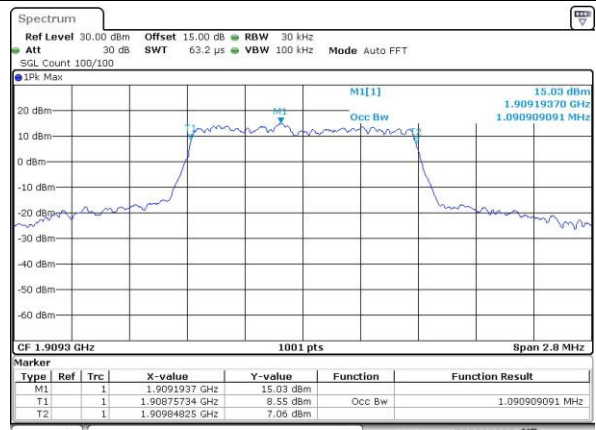
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



## Highest Channel / 1.4MHz / 16QAM

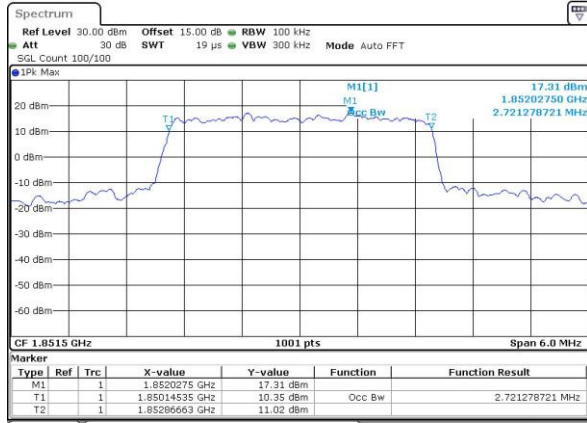






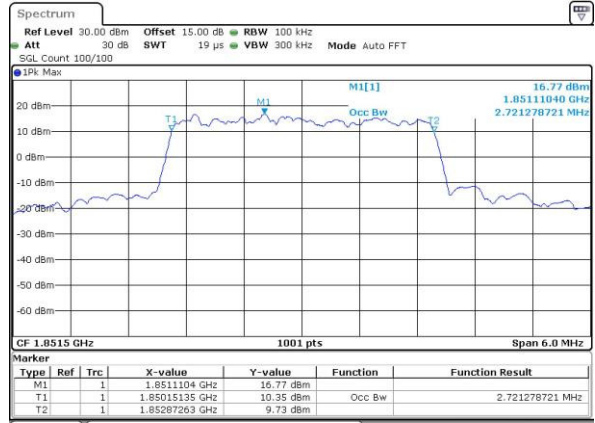
## LTE Band 2

## Lowest Channel / 3MHz / QPSK



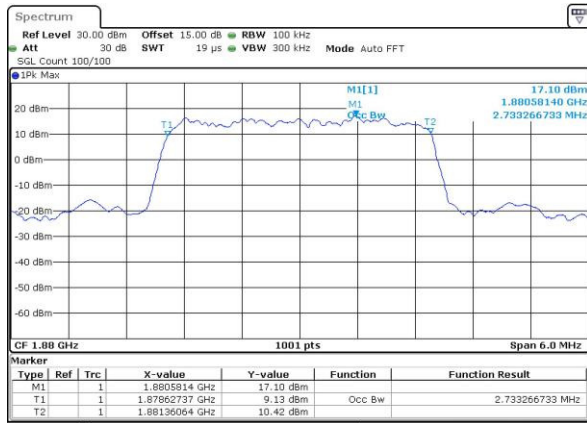
Date: 22.DEC.2015 18:08:19

## Lowest Channel / 3MHz / 16QAM



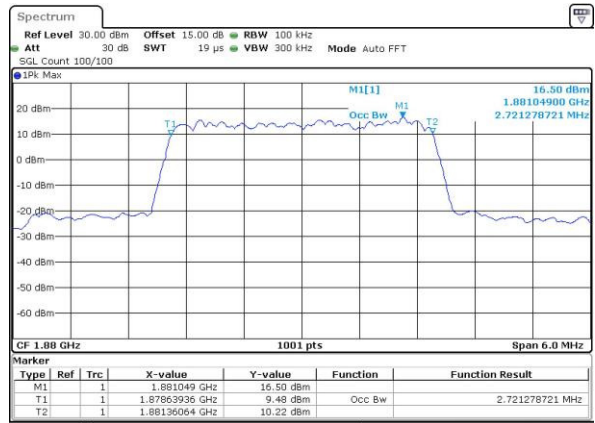
Date: 22.DEC.2015 18:08:30

## Middle Channel / 3MHz / QPSK



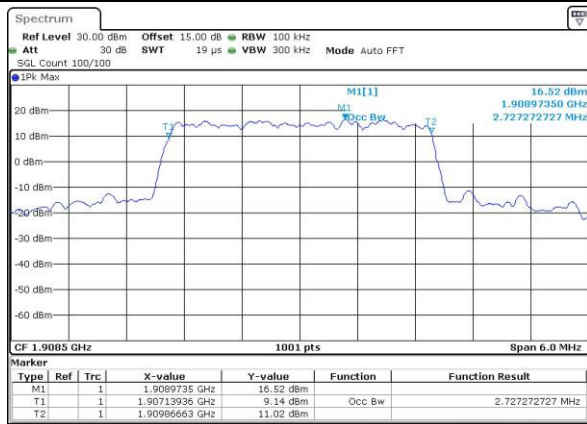
Date: 22.DEC.2015 18:15:36

## Middle Channel / 3MHz / 16QAM



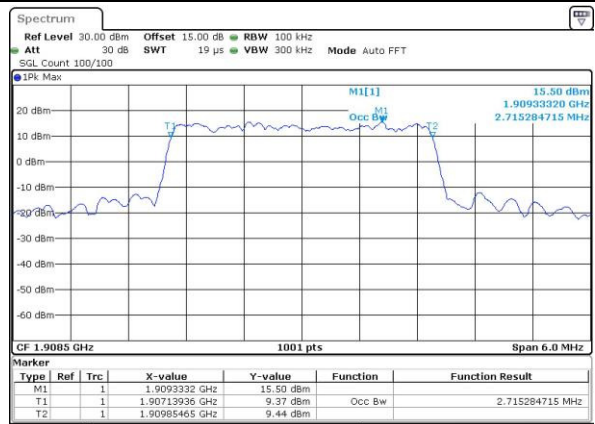
Date: 22.DEC.2015 18:15:46

## Highest Channel / 3MHz / QPSK

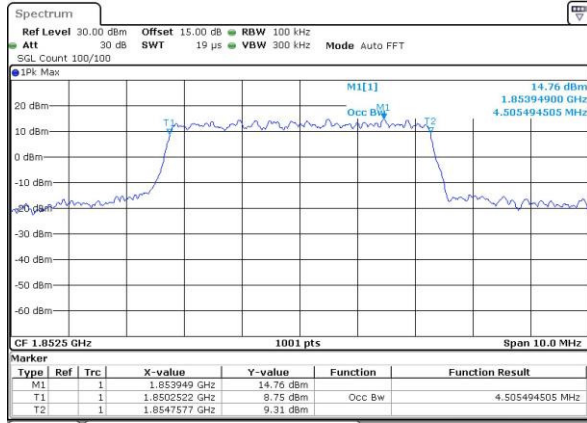


Date: 22.DEC.2015 18:18:11

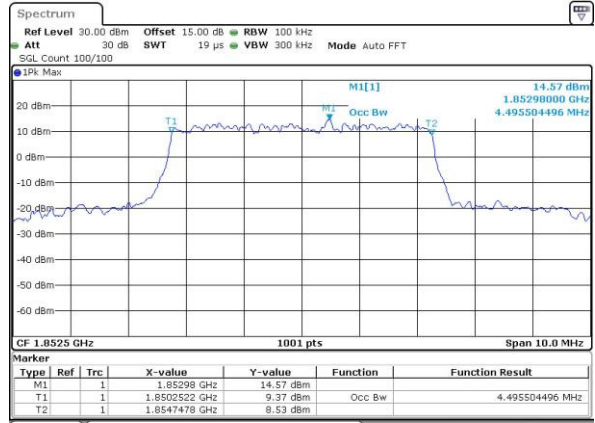
## Highest Channel / 3MHz / 16QAM



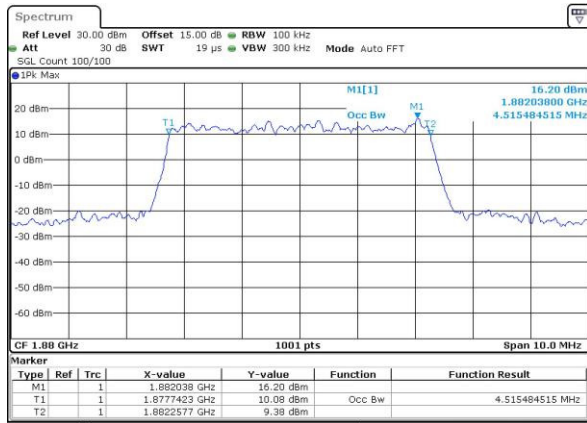
Date: 22.DEC.2015 18:18:22

**LTE Band 2****Lowest Channel / 5MHz / QPSK**

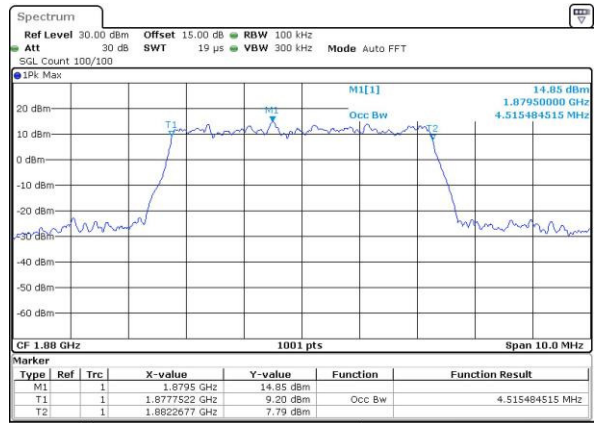
Date: 22,DEC,2015 18:25:27

**Lowest Channel / 5MHz / 16QAM**

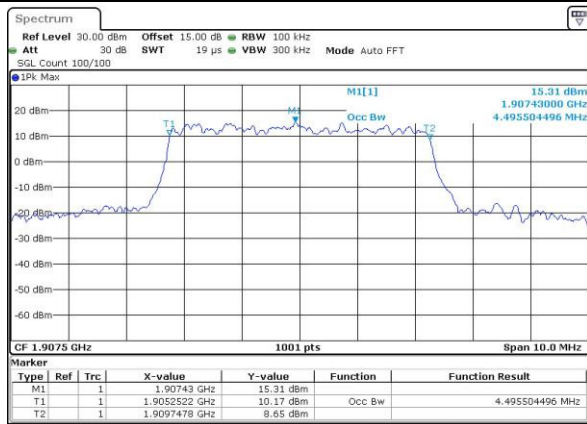
Date: 22,DEC,2015 18:25:38

**Middle Channel / 5MHz / QPSK**

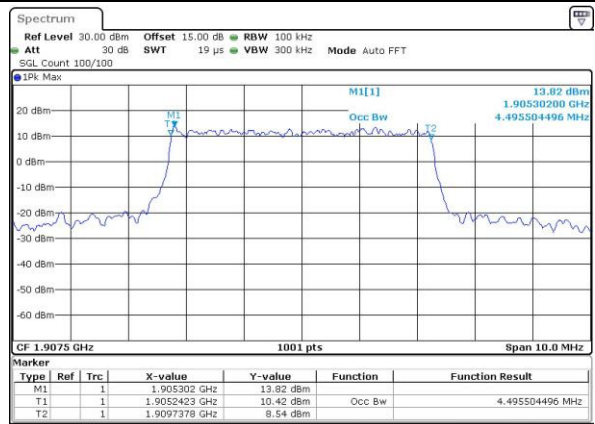
Date: 22,DEC,2015 18:32:43

**Middle Channel / 5MHz / 16QAM**

Date: 22,DEC,2015 18:32:54

**Highest Channel / 5MHz / QPSK**

Date: 22,DEC,2015 18:35:19

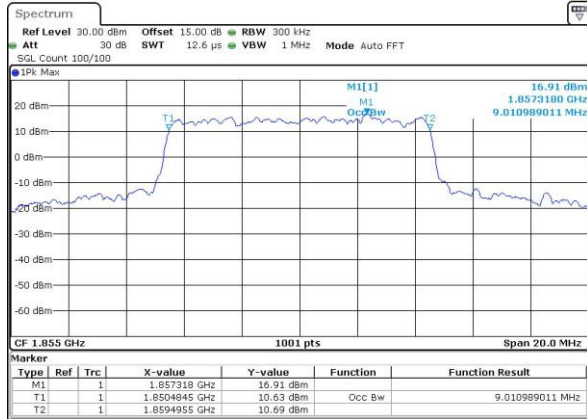
**Highest Channel / 5MHz / 16QAM**

Date: 22,DEC,2015 18:35:31

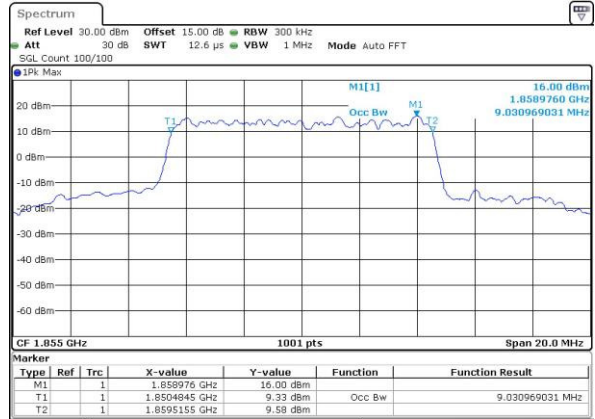


## LTE Band 2

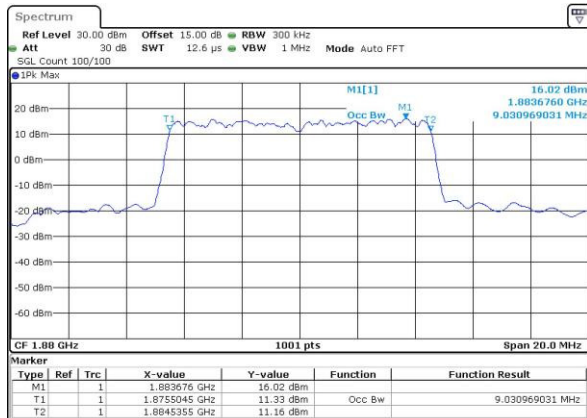
## Lowest Channel / 10MHz / QPSK



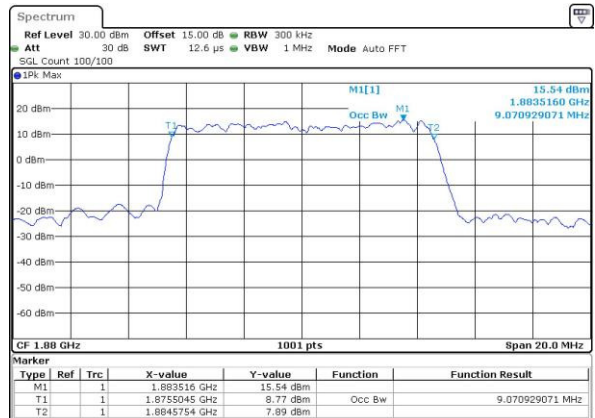
## Lowest Channel / 10MHz / 16QAM



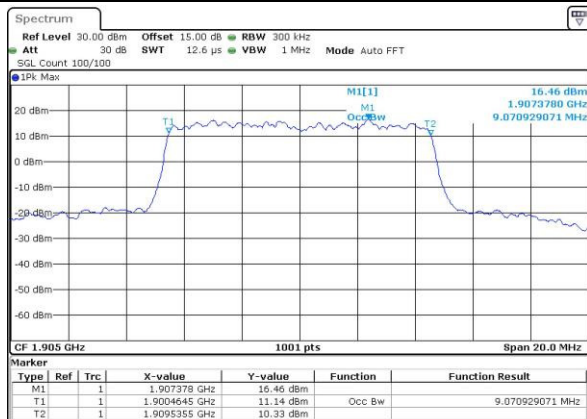
## Middle Channel / 10MHz / QPSK



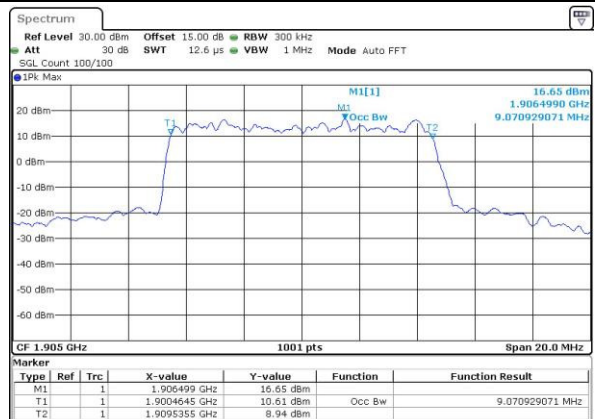
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



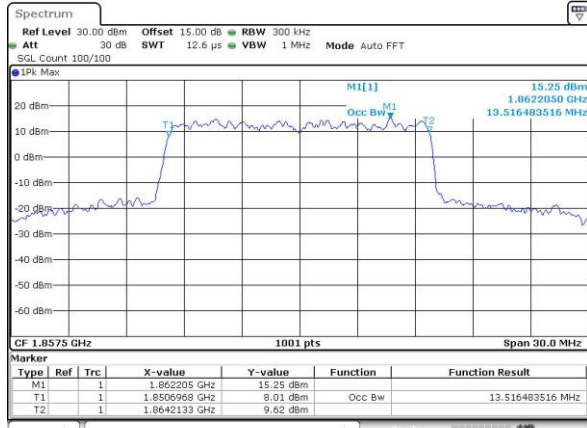
## Highest Channel / 10MHz / 16QAM





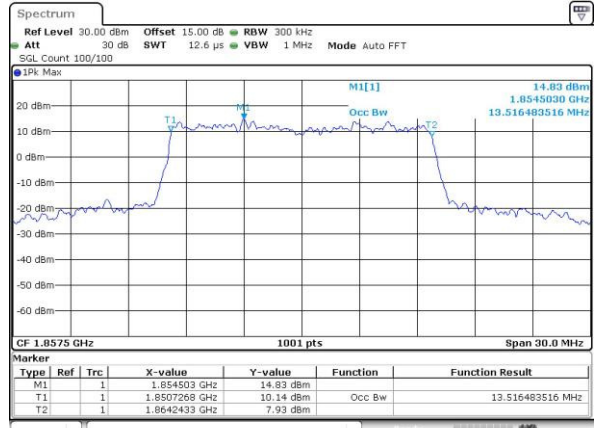
## LTE Band 2

## Lowest Channel / 15MHz / QPSK



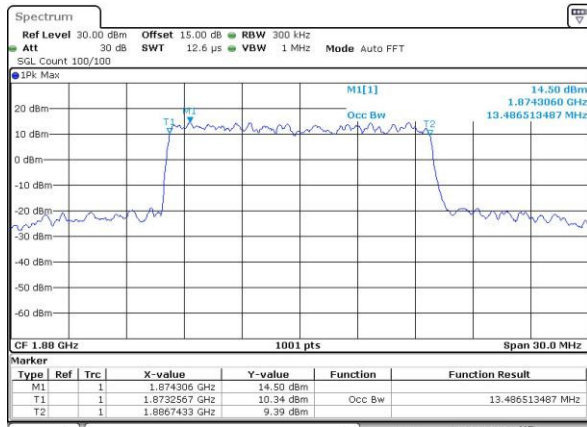
Date: 22, DEC, 2015 18:59:44

## Lowest Channel / 15MHz / 16QAM



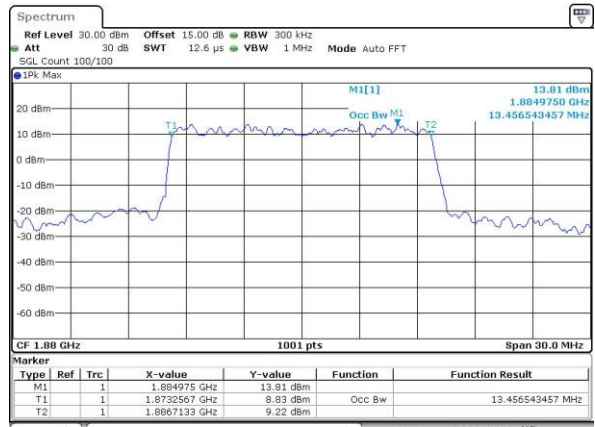
Date: 22, DEC, 2015 18:59:54

## Middle Channel / 15MHz / QPSK



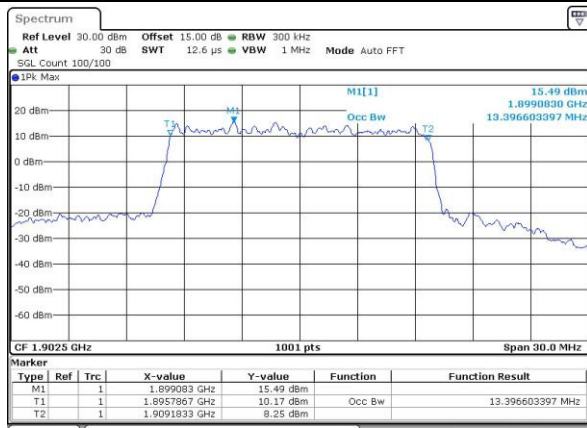
Date: 22, DEC, 2015 19:07:00

## Middle Channel / 15MHz / 16QAM



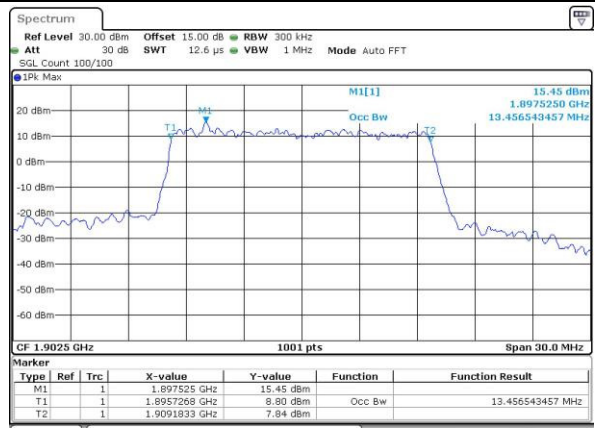
Date: 22, DEC, 2015 19:07:10

## Highest Channel / 15MHz / QPSK



Date: 22, DEC, 2015 19:09:36

## Highest Channel / 15MHz / 16QAM

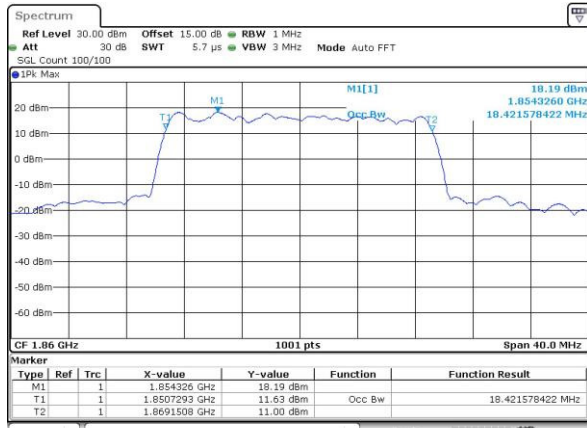


Date: 22, DEC, 2015 19:09:46



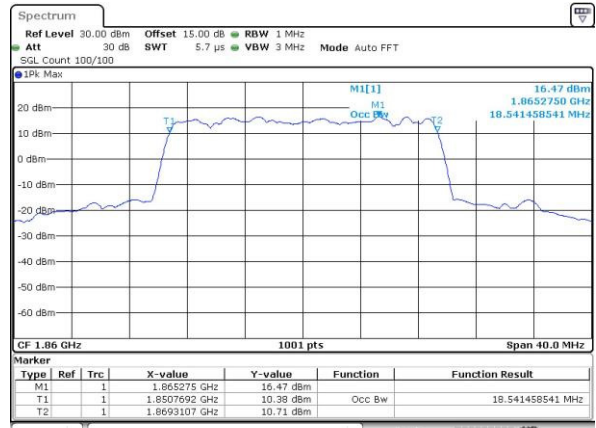
## LTE Band 2

## Lowest Channel / 20MHz / QPSK



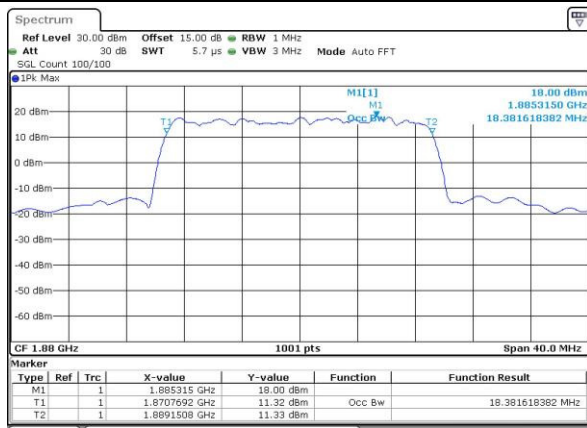
Date: 22.DEC.2015 19:16:50

## Lowest Channel / 20MHz / 16QAM



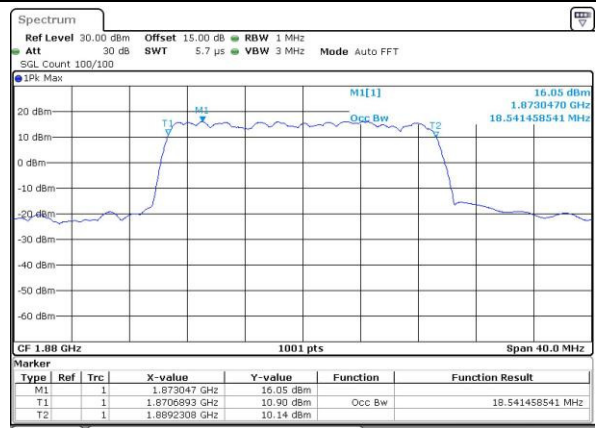
Date: 22.DEC.2015 19:17:01

## Middle Channel / 20MHz / QPSK



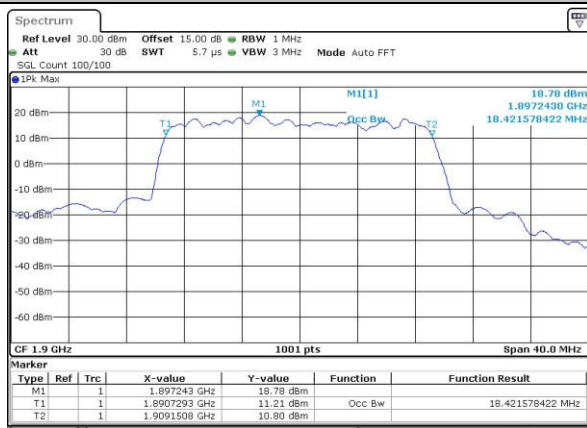
Date: 22.DEC.2015 19:24:06

## Middle Channel / 20MHz / 16QAM



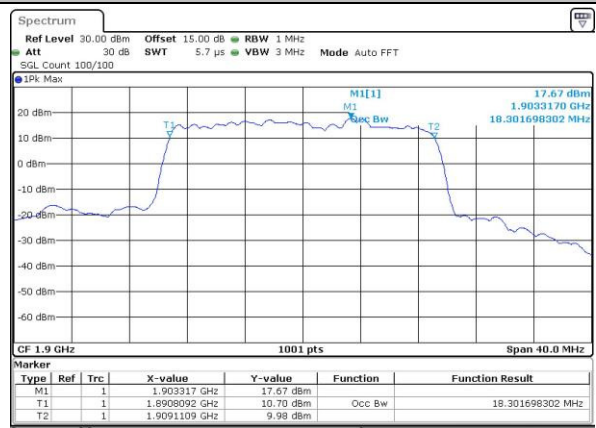
Date: 22.DEC.2015 19:24:17

## Highest Channel / 20MHz / QPSK



Date: 22.DEC.2015 19:26:42

## Highest Channel / 20MHz / 16QAM



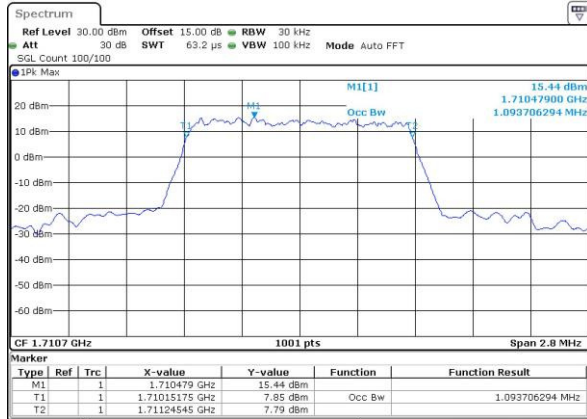
Date: 22.DEC.2015 19:26:53





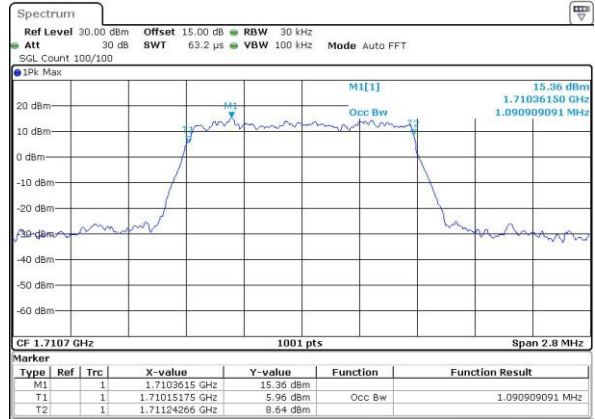
## LTE Band 4

## Lowest Channel / 1.4MHz / QPSK



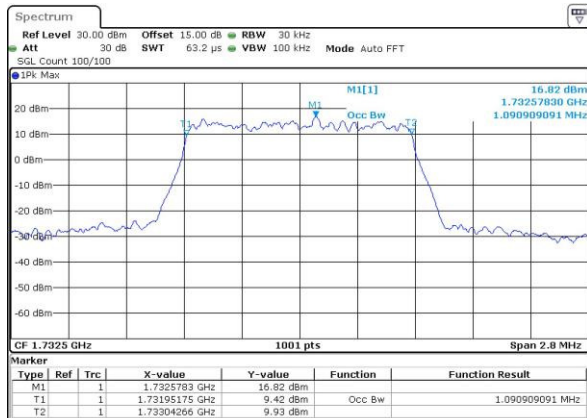
Date: 22.DEC.2015 20:07:53

## Lowest Channel / 1.4MHz / 16QAM



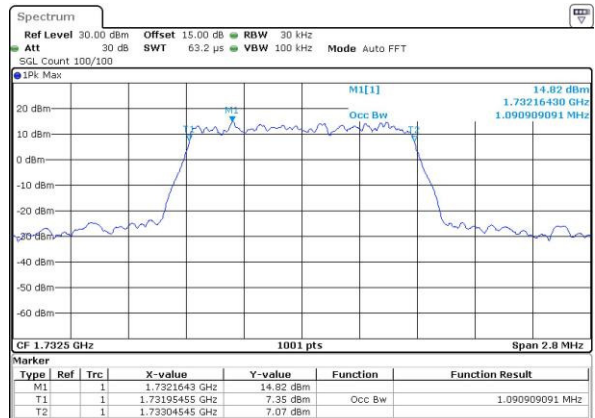
Date: 22.DEC.2015 20:08:04

## Middle Channel / 1.4MHz / QPSK



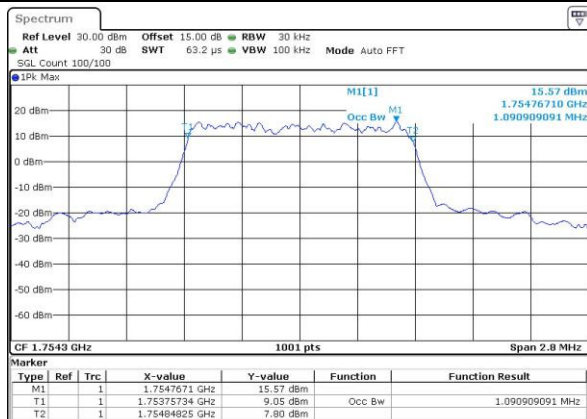
Date: 22.DEC.2015 20:15:09

## Middle Channel / 1.4MHz / 16QAM



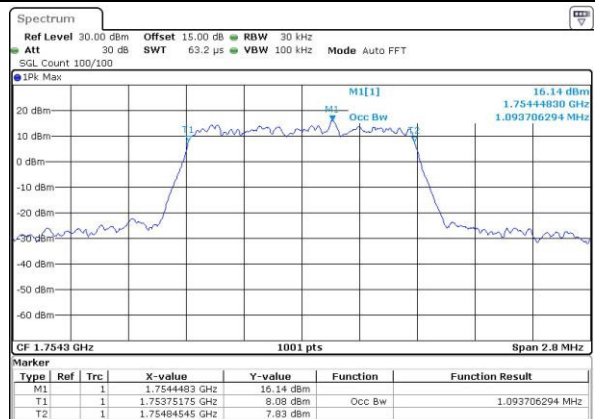
Date: 22.DEC.2015 20:15:20

## Highest Channel / 1.4MHz / QPSK



Date: 22.DEC.2015 20:17:44

## Highest Channel / 1.4MHz / 16QAM

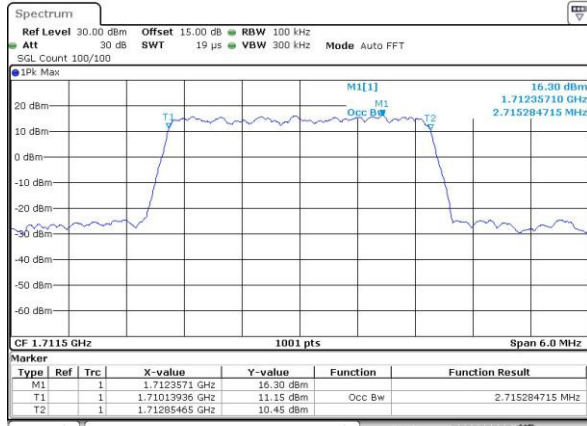


Date: 22.DEC.2015 20:17:55



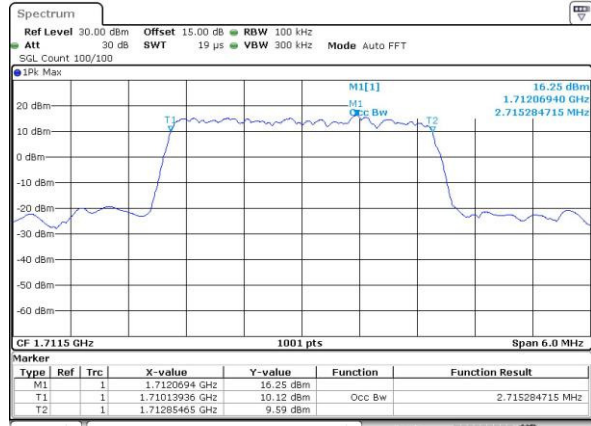
## LTE Band 4

## Lowest Channel / 3MHz / QPSK



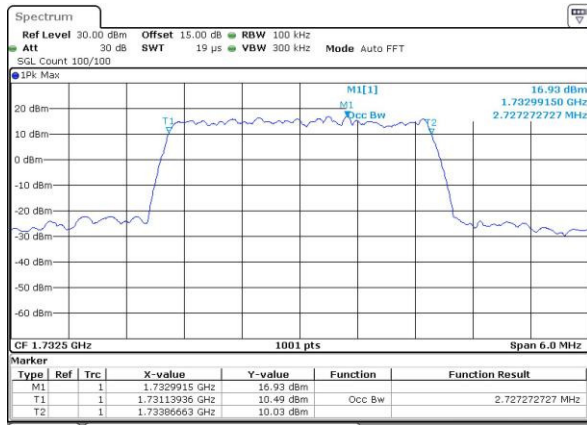
Date: 22.DEC.2015 22:11:19

## Lowest Channel / 3MHz / 16QAM



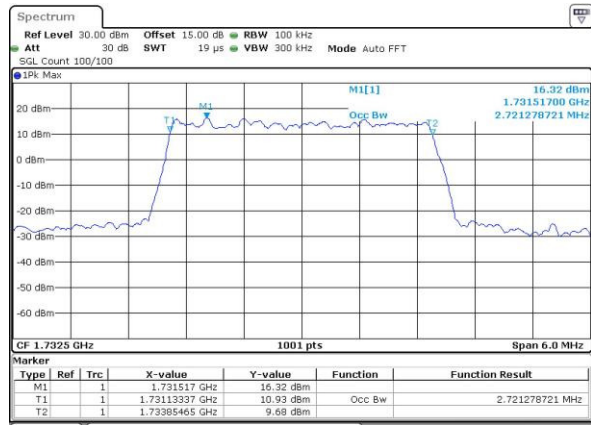
Date: 22.DEC.2015 22:11:30

## Middle Channel / 3MHz / QPSK



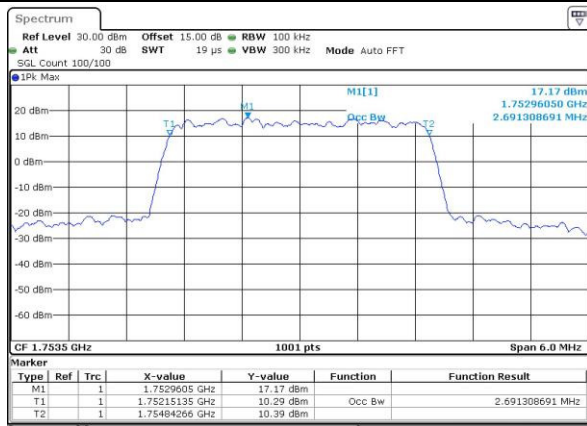
Date: 22.DEC.2015 22:18:32

## Middle Channel / 3MHz / 16QAM



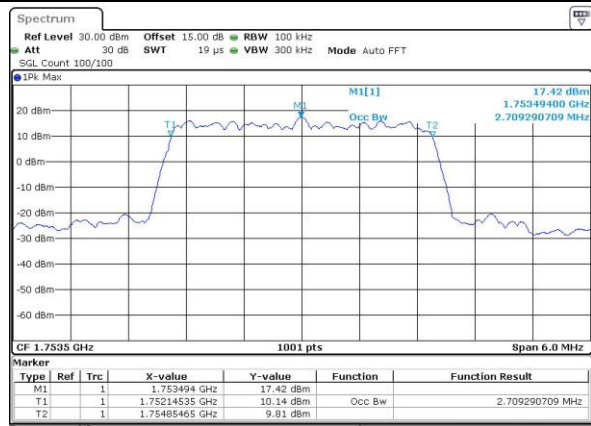
Date: 22.DEC.2015 22:18:43

## Highest Channel / 3MHz / QPSK



Date: 22.DEC.2015 22:21:08

## Highest Channel / 3MHz / 16QAM

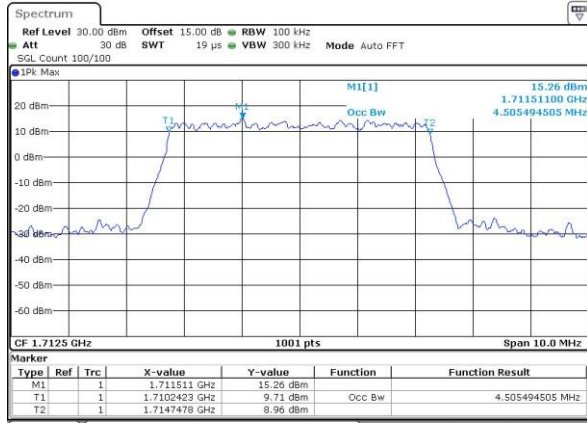


Date: 22.DEC.2015 22:21:18



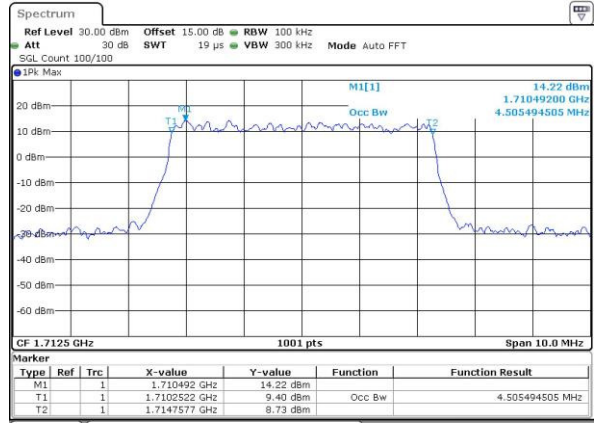
## LTE Band 4

## Lowest Channel / 5MHz / QPSK



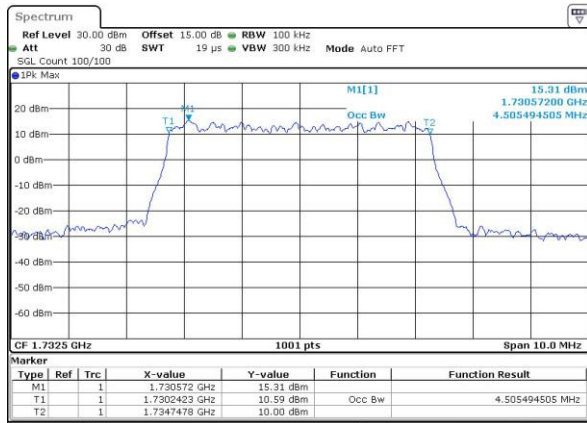
Date: 22.DEC.2015 22:19:17

## Lowest Channel / 5MHz / 16QAM



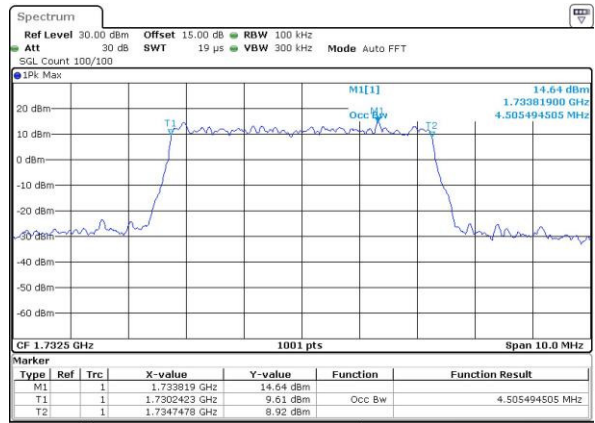
Date: 22.DEC.2015 20:15:51

## Middle Channel / 5MHz / QPSK



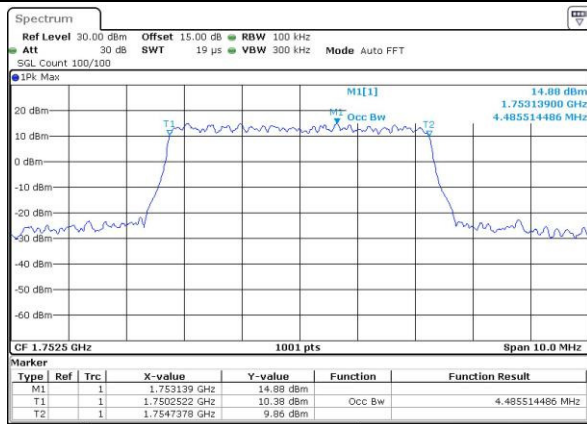
Date: 22.DEC.2015 21:03:55

## Middle Channel / 5MHz / 16QAM



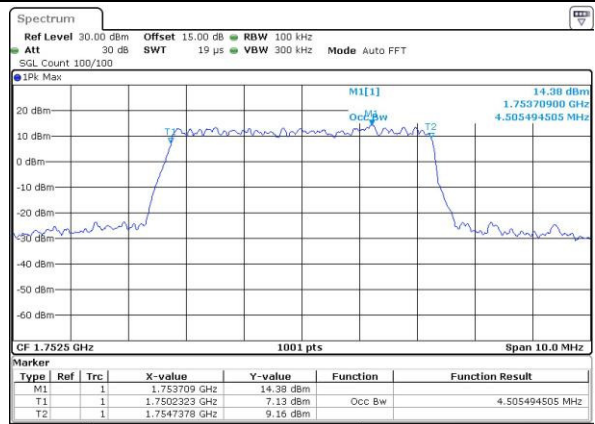
Date: 22.DEC.2015 21:04:06

## Highest Channel / 5MHz / QPSK



Date: 22.DEC.2015 21:06:30

## Highest Channel / 5MHz / 16QAM

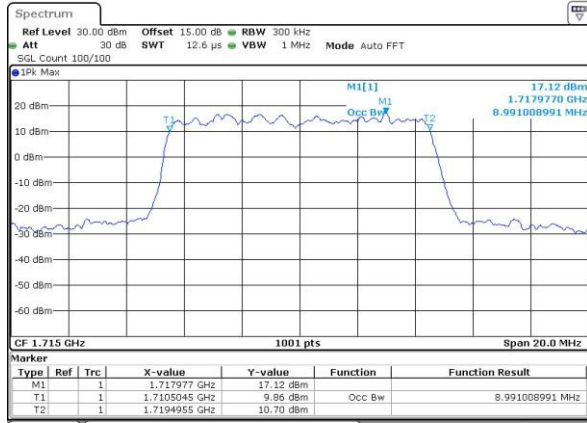


Date: 22.DEC.2015 21:06:41

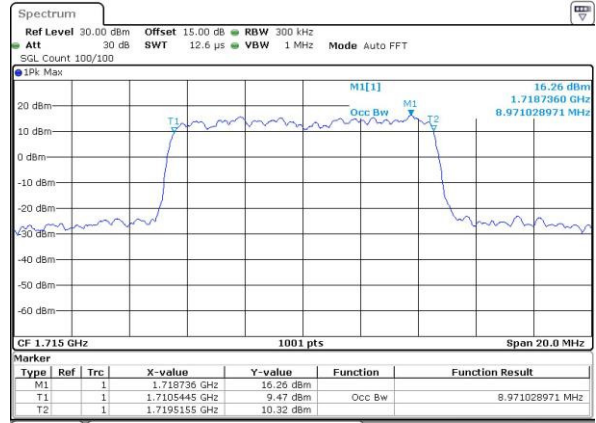


## LTE Band 4

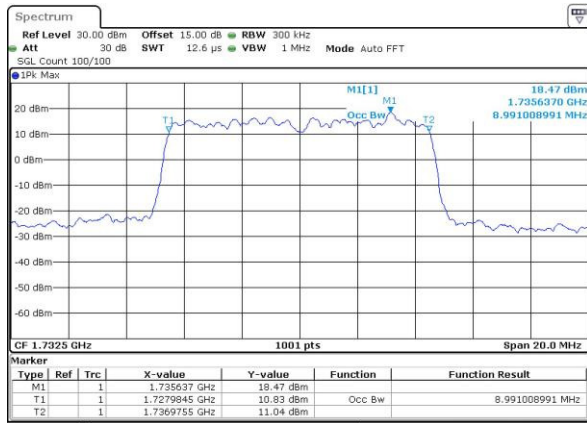
## Lowest Channel / 10MHz / QPSK



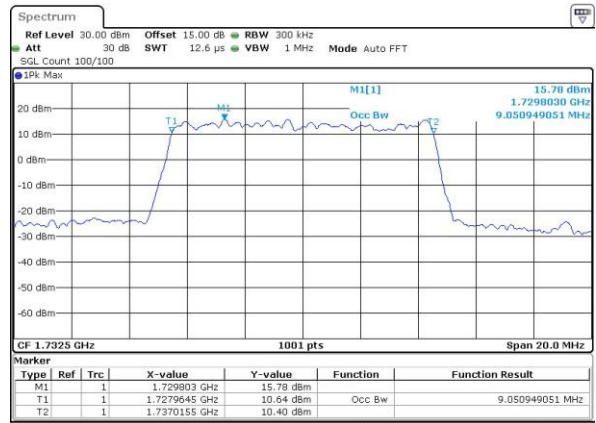
## Lowest Channel / 10MHz / 16QAM



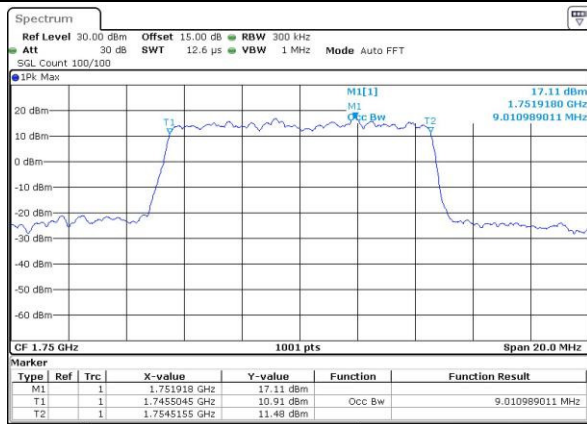
## Middle Channel / 10MHz / QPSK



## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM

