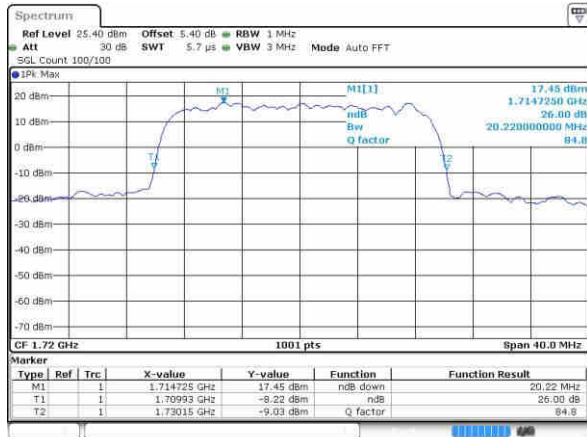


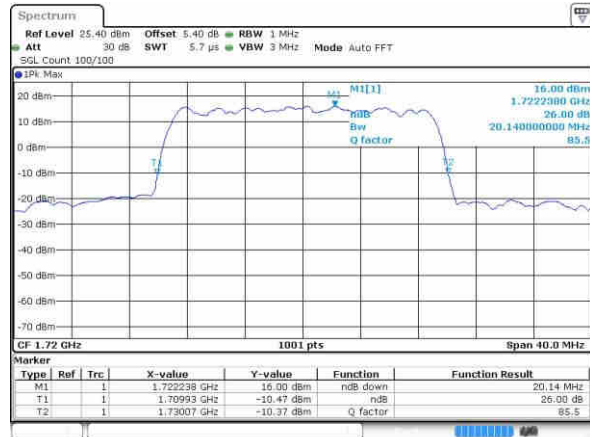


## LTE Band 4

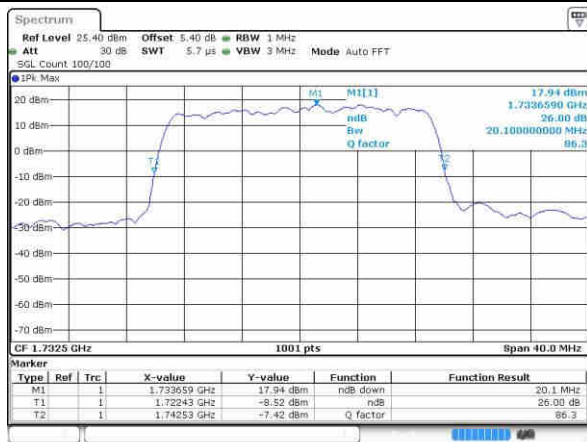
## Lowest Channel / 20MHz / QPSK



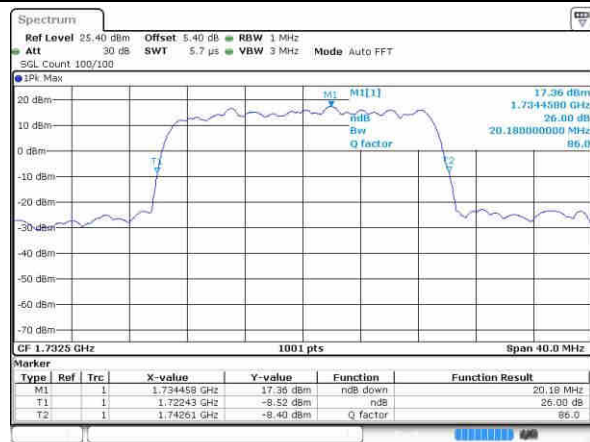
## Lowest Channel / 20MHz / 16QAM



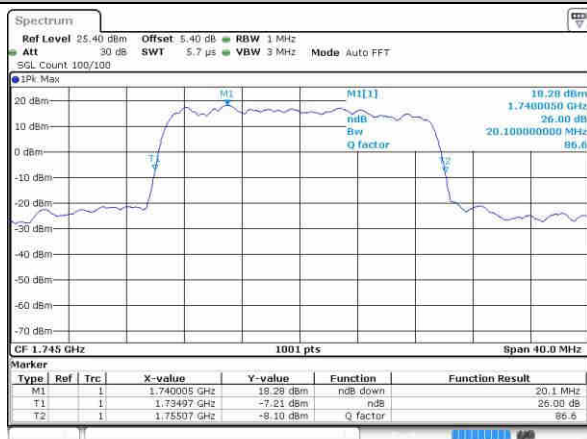
## Middle Channel / 20MHz / QPSK



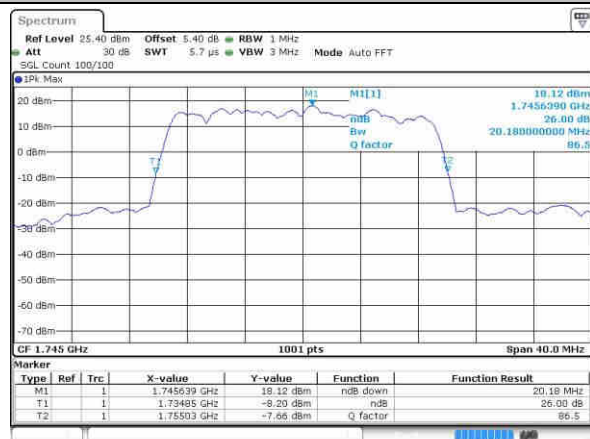
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



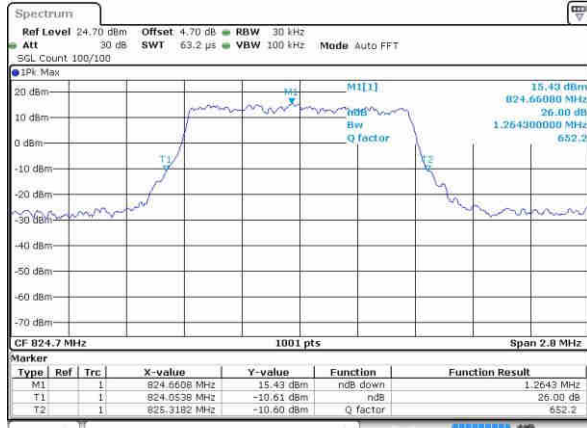
## Highest Channel / 20MHz / 16QAM





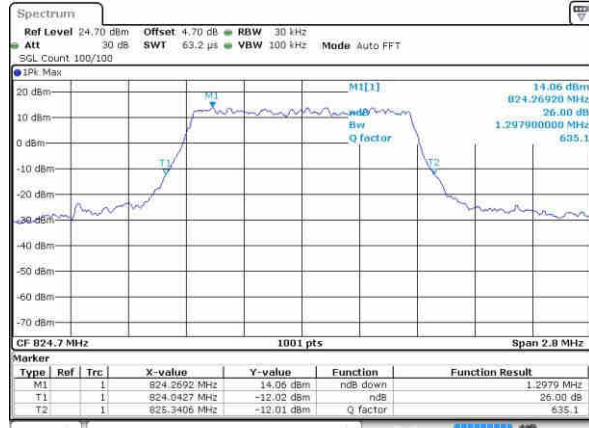
## LTE Band 5

## Lowest Channel / 1.4MHz / QPSK



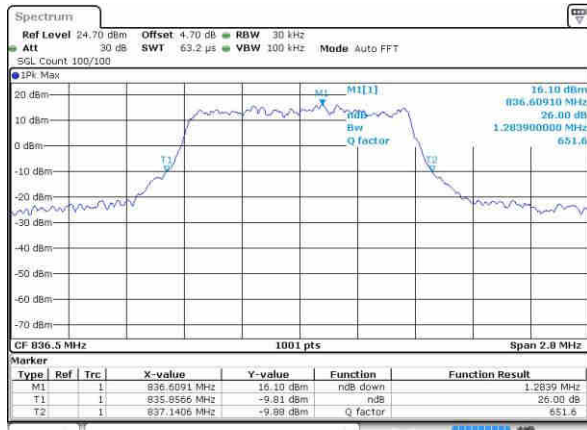
Date: 28.MAR.2017 14:46:03

## Lowest Channel / 1.4MHz / 16QAM



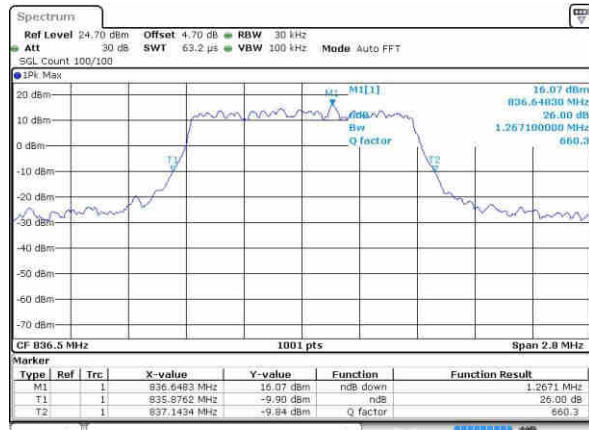
Date: 28.MAR.2017 14:45:51

## Middle Channel / 1.4MHz / QPSK



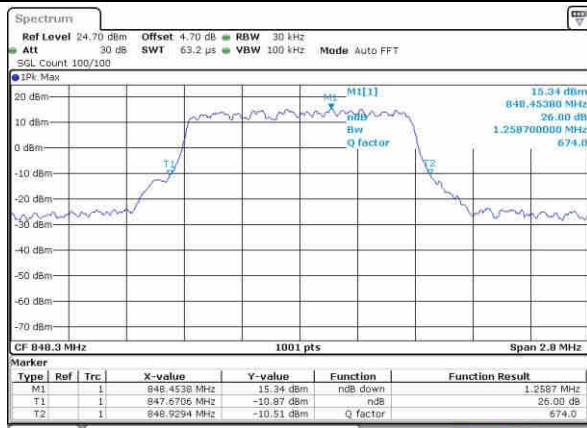
Date: 28.MAR.2017 14:55:07

## Middle Channel / 1.4MHz / 16QAM



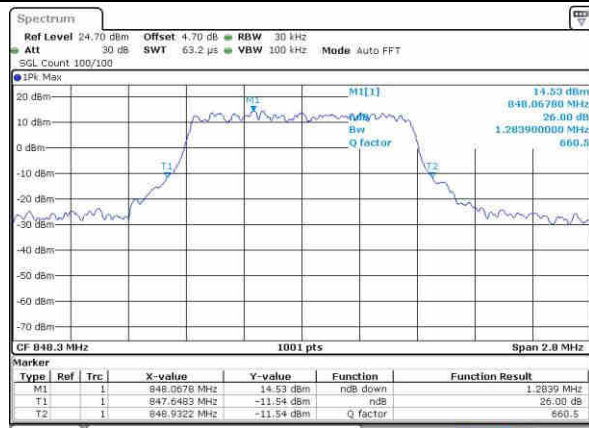
Date: 28.MAR.2017 14:55:18

## Highest Channel / 1.4MHz / QPSK



Date: 28.MAR.2017 14:57:43

## Highest Channel / 1.4MHz / 16QAM

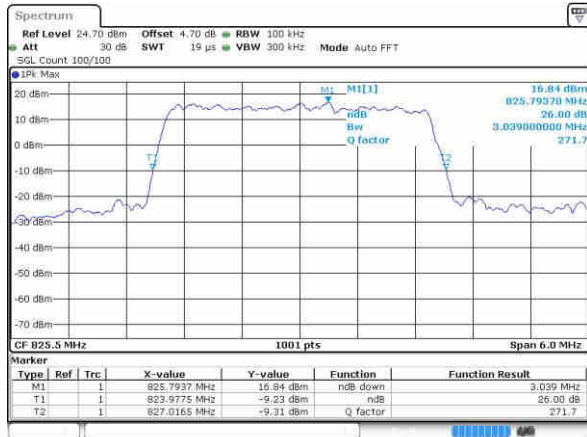


Date: 28.MAR.2017 14:57:54

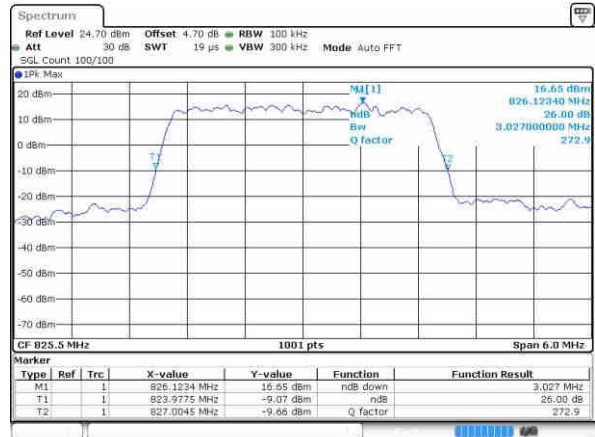


## LTE Band 5

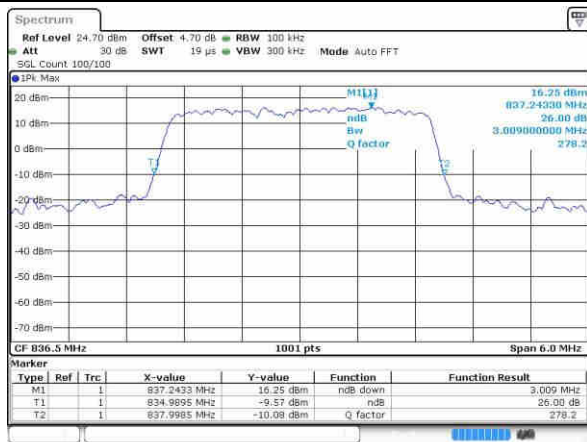
## Lowest Channel / 3MHz / QPSK



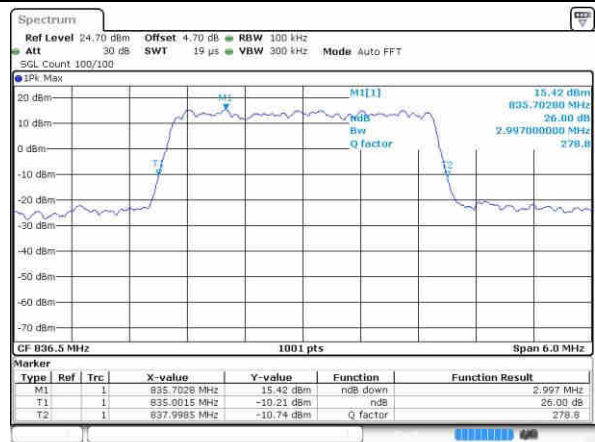
## Lowest Channel / 3MHz / 16QAM



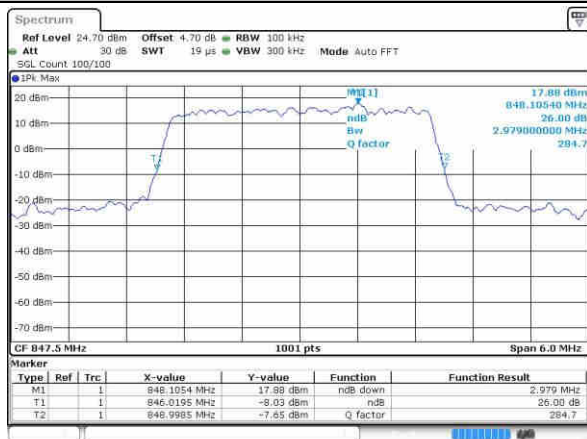
## Middle Channel / 3MHz / QPSK



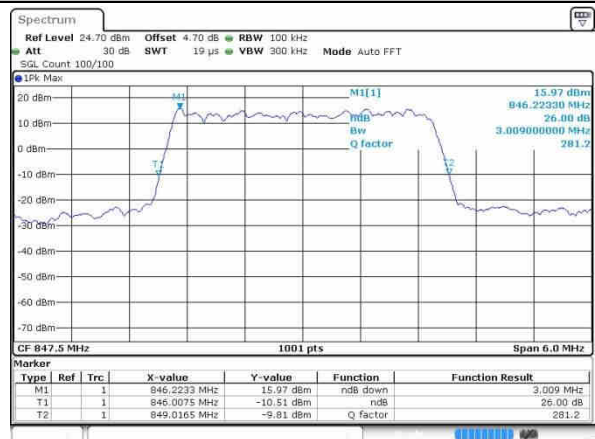
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



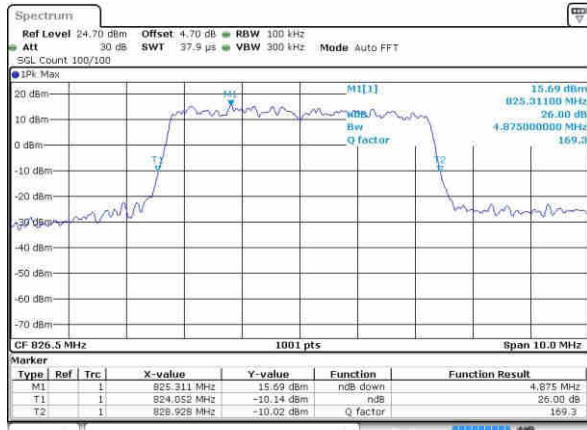
## Highest Channel / 3MHz / 16QAM





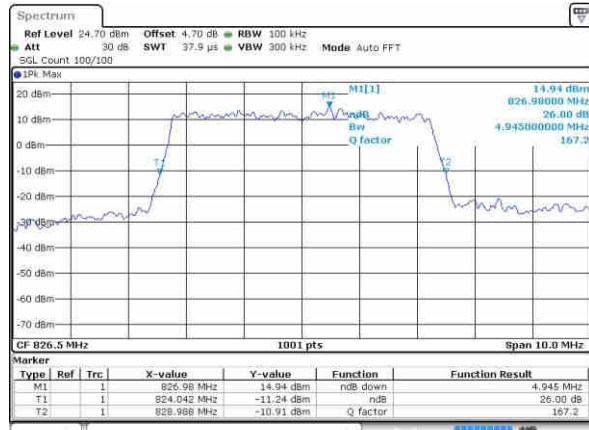
## LTE Band 5

## Lowest Channel / 5MHz / QPSK



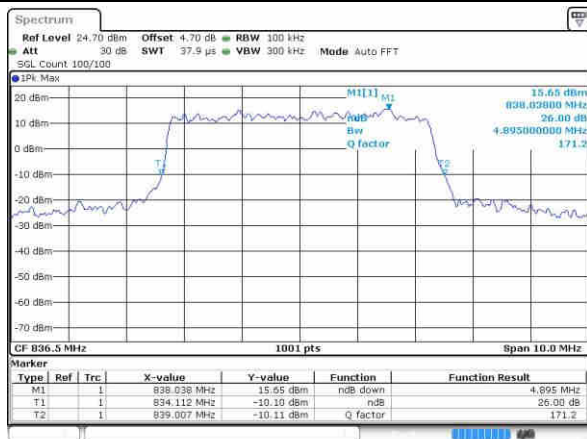
Date: 28.MAR.2017 15:28:01

## Lowest Channel / 5MHz / 16QAM



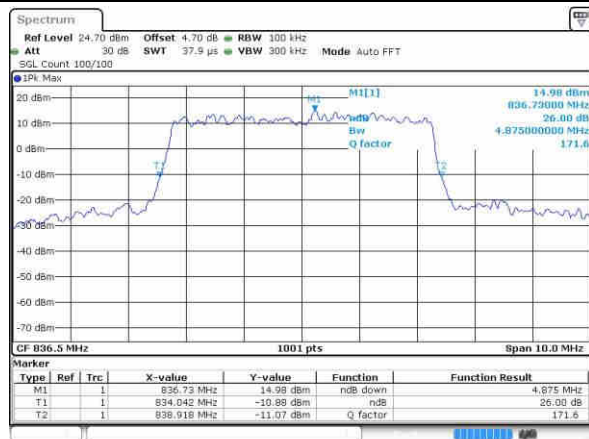
Date: 28.MAR.2017 15:28:12

## Middle Channel / 5MHz / QPSK



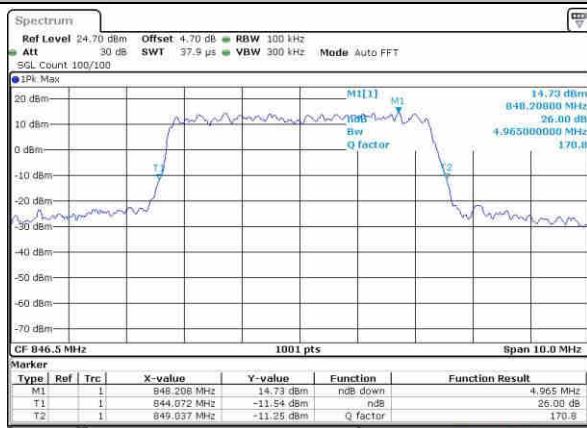
Date: 28.MAR.2017 15:37:18

## Middle Channel / 5MHz / 16QAM



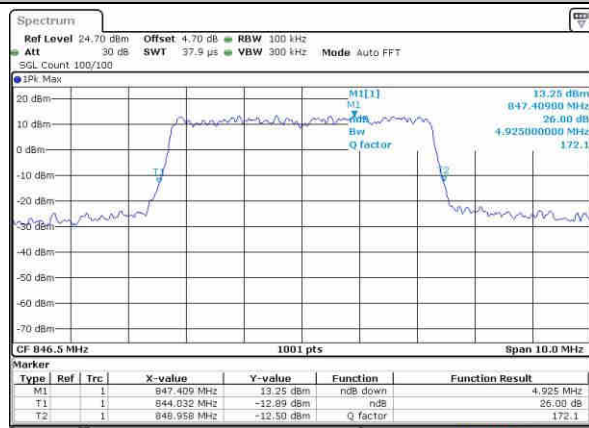
Date: 28.MAR.2017 15:37:30

## Highest Channel / 5MHz / QPSK



Date: 28.MAR.2017 15:39:55

## Highest Channel / 5MHz / 16QAM

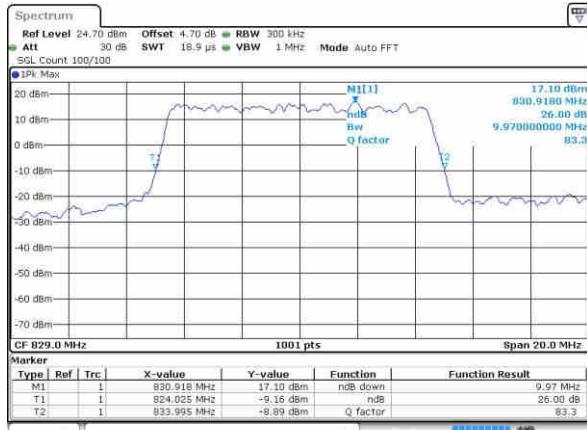


Date: 28.MAR.2017 15:40:06

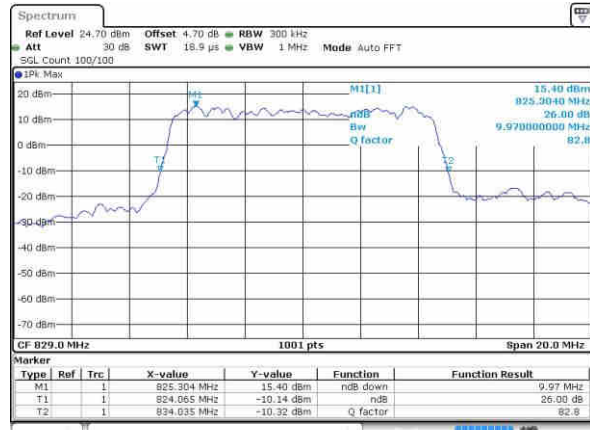


## LTE Band 5

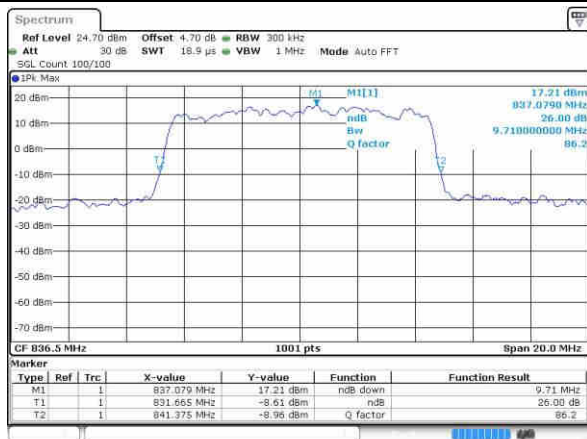
## Lowest Channel / 10MHz / QPSK



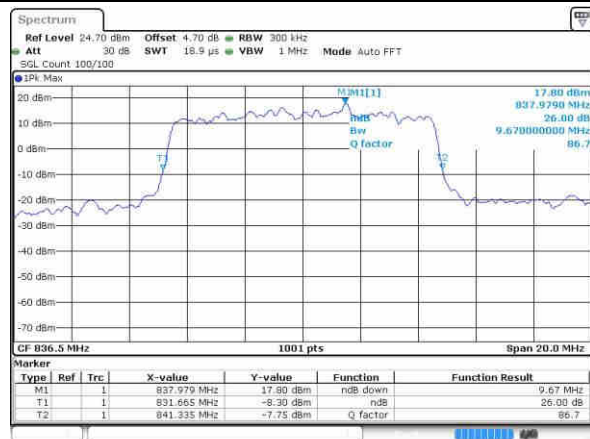
## Lowest Channel / 10MHz / 16QAM



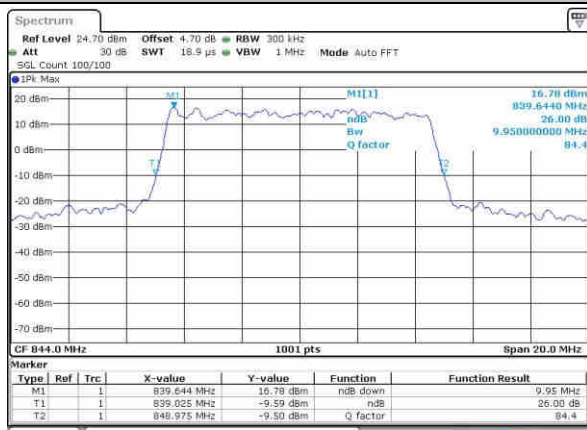
## Middle Channel / 10MHz / QPSK



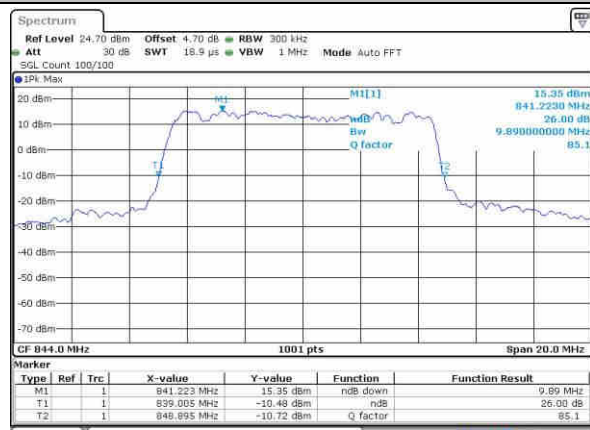
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



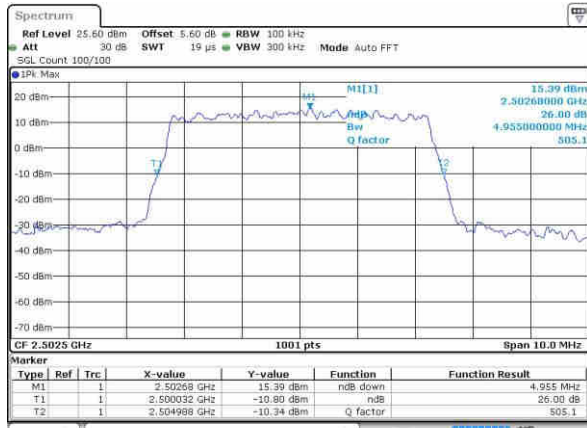
## Highest Channel / 10MHz / 16QAM





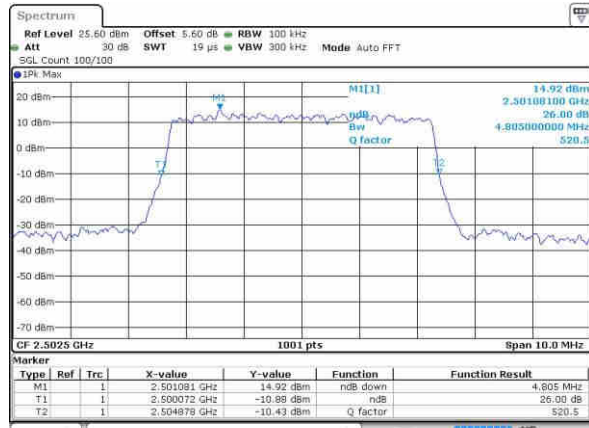
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



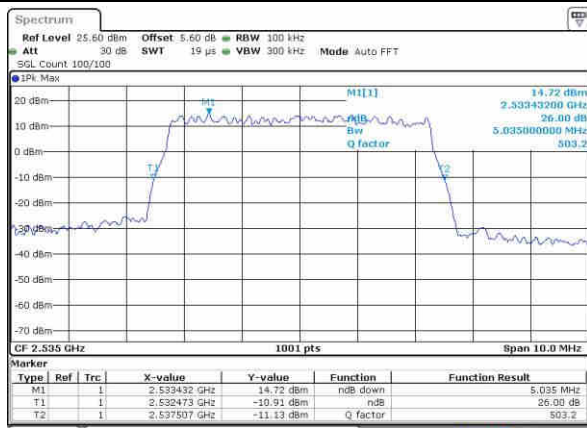
Date: 29 MAR 2017 00:47:51

## Lowest Channel / 5MHz / 16QAM



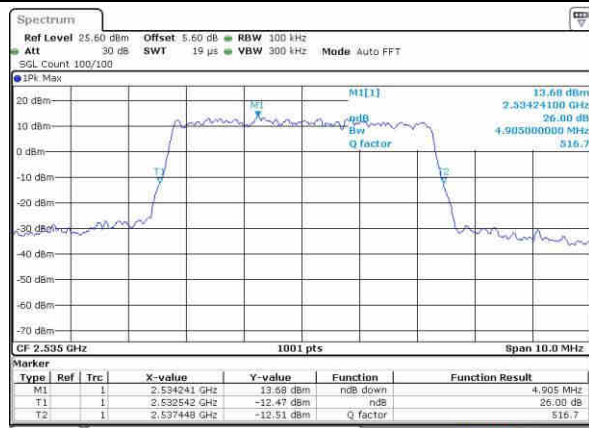
Date: 29 MAR 2017 00:48:11

## Middle Channel / 5MHz / QPSK



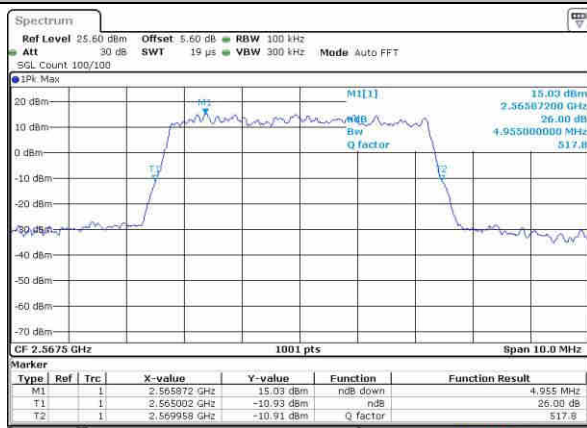
Date: 29 MAR 2017 00:48:53

## Middle Channel / 5MHz / 16QAM



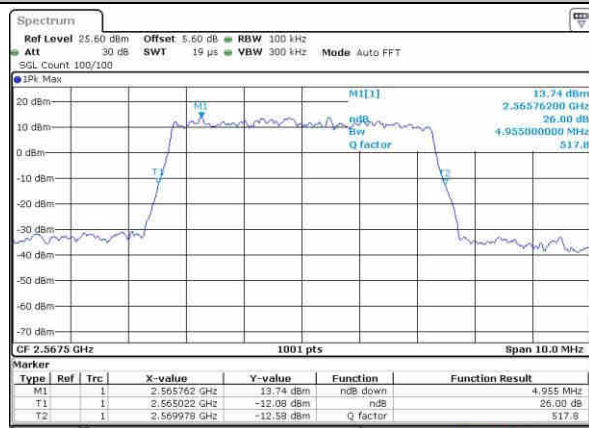
Date: 29 MAR 2017 00:48:32

## Highest Channel / 5MHz / QPSK



Date: 29 MAR 2017 00:49:13

## Highest Channel / 5MHz / 16QAM

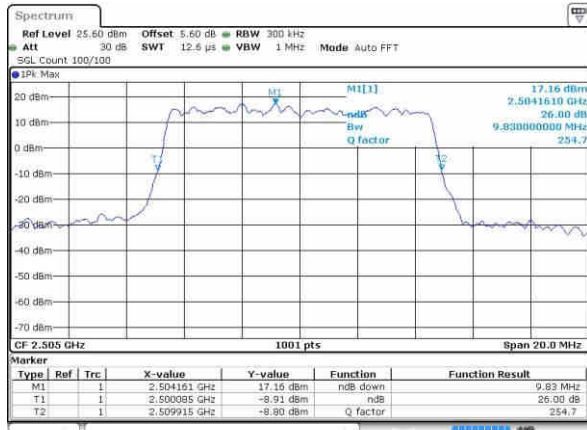


Date: 29 MAR 2017 00:49:34

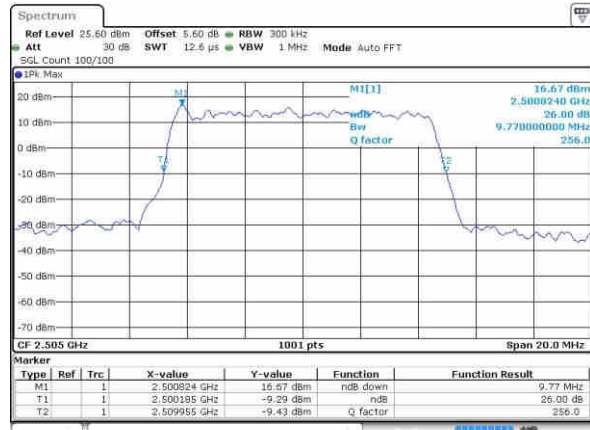


## LTE Band 7

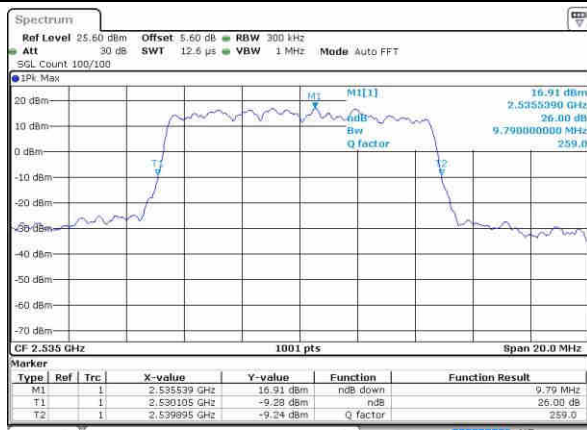
## Lowest Channel / 10MHz / QPSK



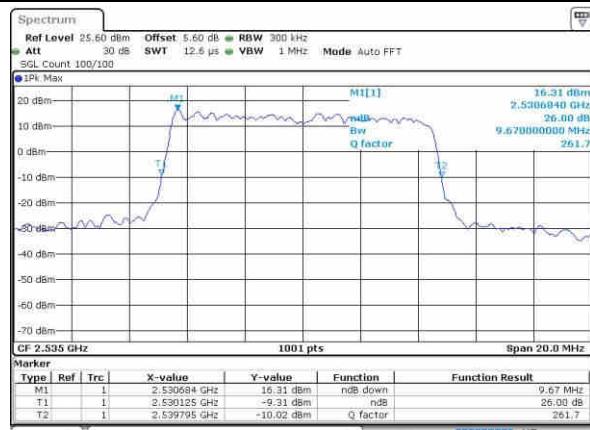
## Lowest Channel / 10MHz / 16QAM



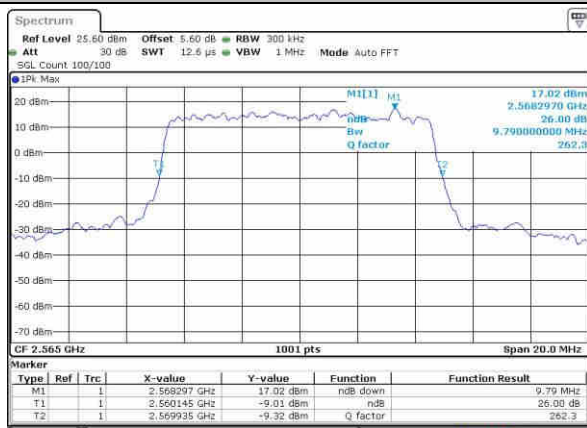
## Middle Channel / 10MHz / QPSK



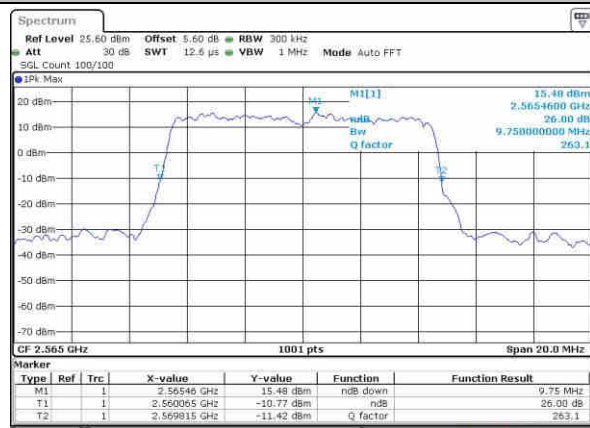
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



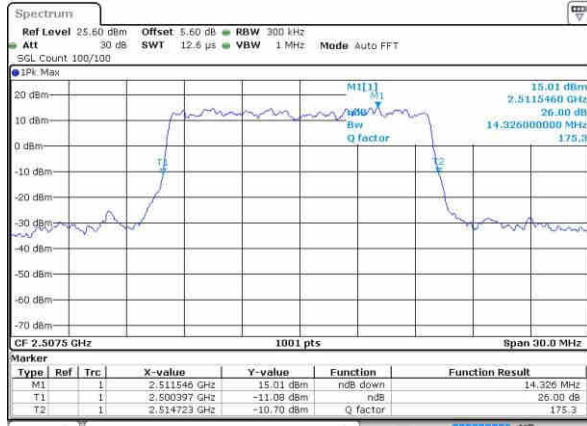
## Highest Channel / 10MHz / 16QAM



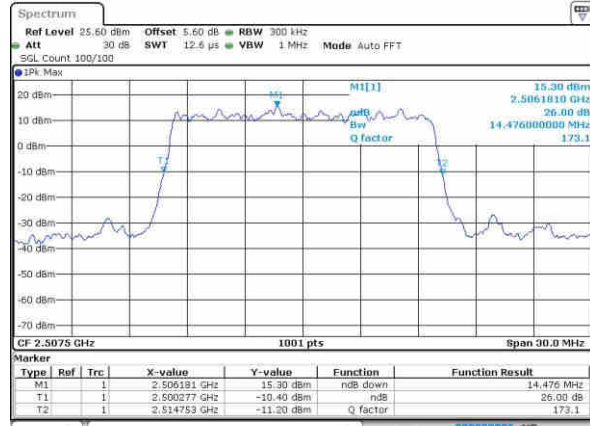


## LTE Band 7

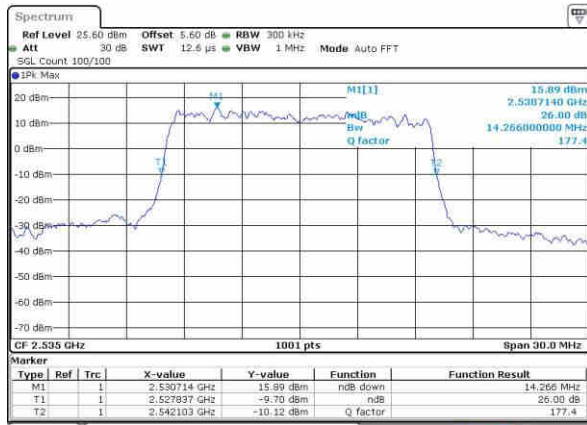
## Lowest Channel / 15MHz / QPSK



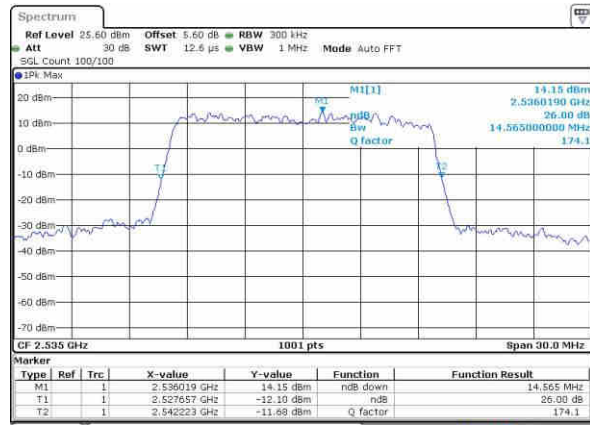
## Lowest Channel / 15MHz / 16QAM



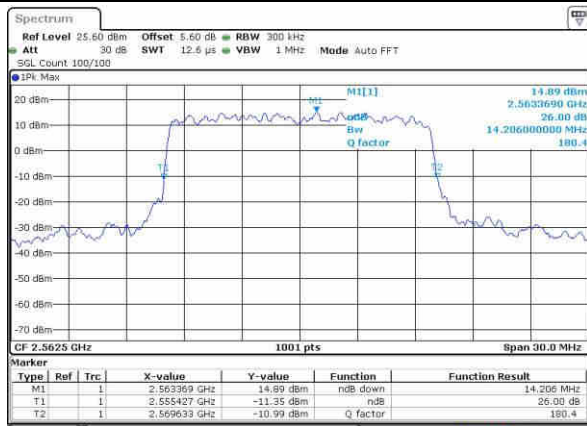
## Middle Channel / 15MHz / QPSK



## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



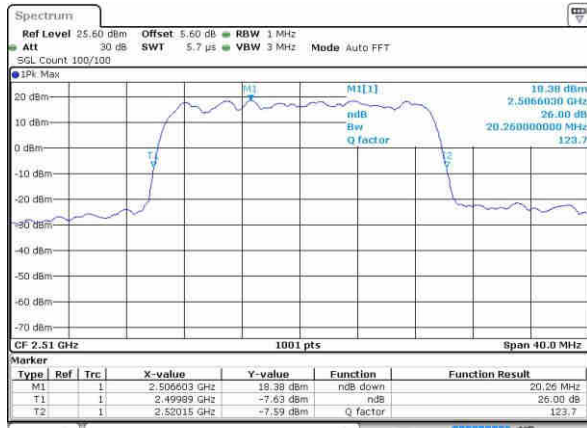
## Highest Channel / 15MHz / 16QAM



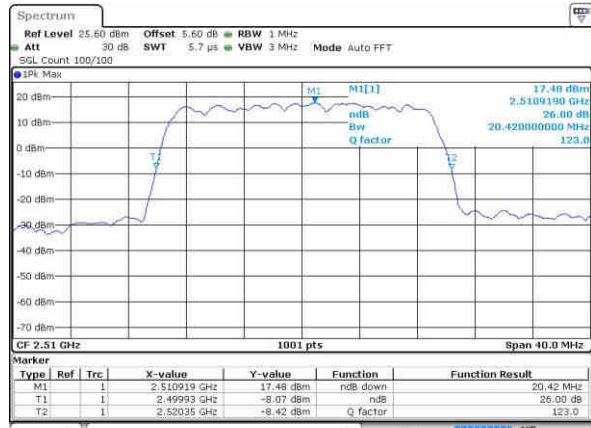


## LTE Band 7

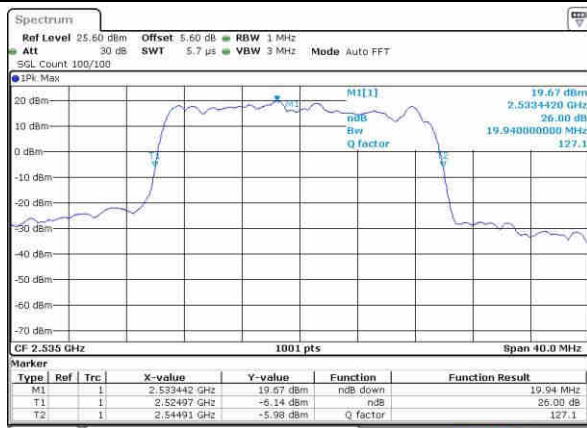
## Lowest Channel / 20MHz / QPSK



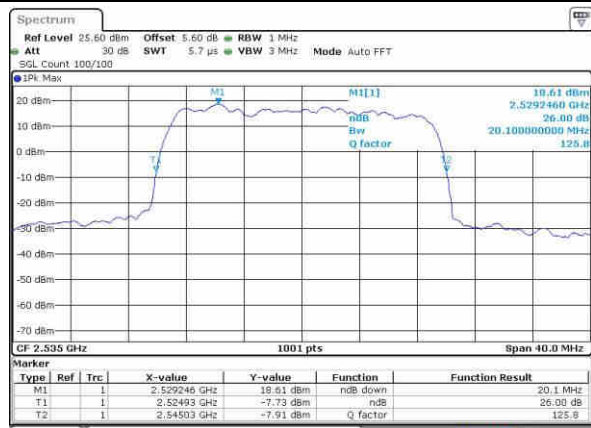
## Lowest Channel / 20MHz / 16QAM



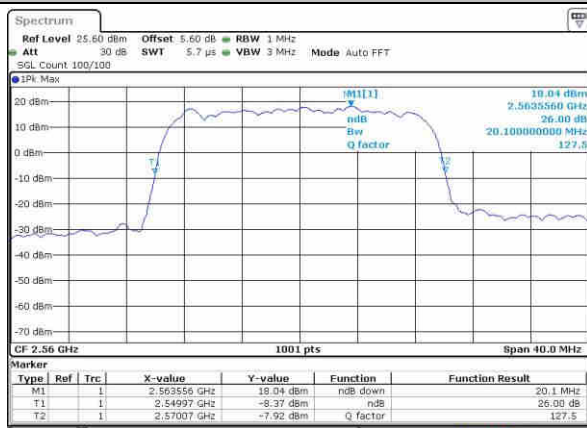
## Middle Channel / 20MHz / QPSK



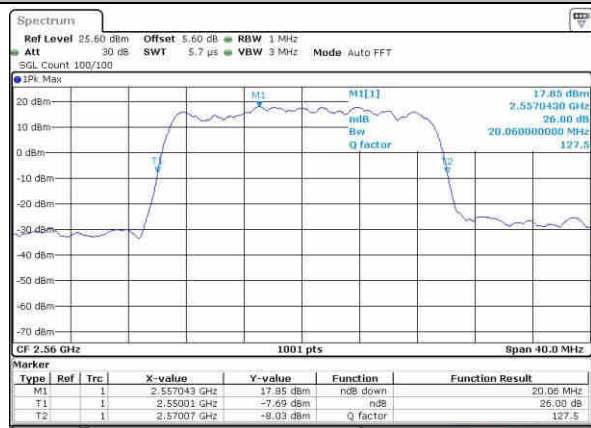
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



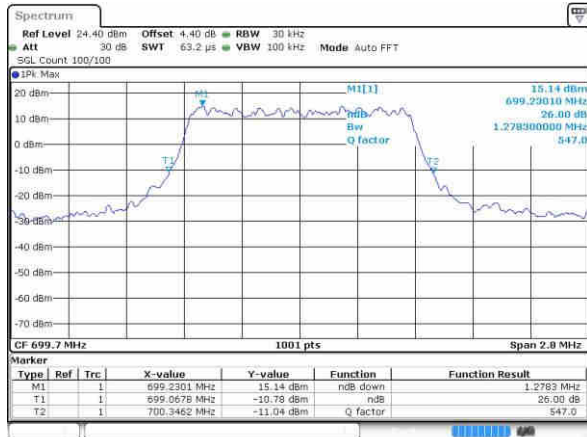
## Highest Channel / 20MHz / 16QAM





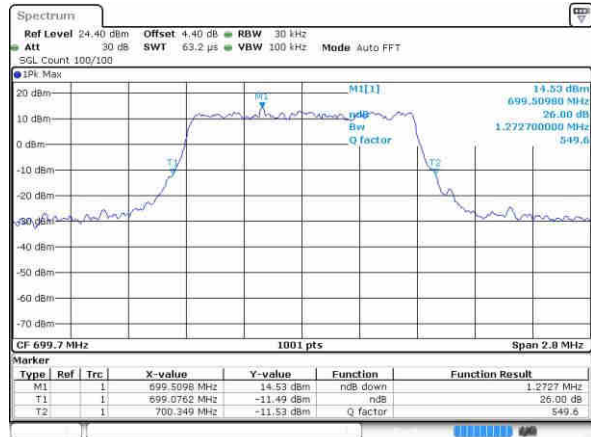
## LTE Band 12

## Lowest Channel / 1.4MHz / QPSK



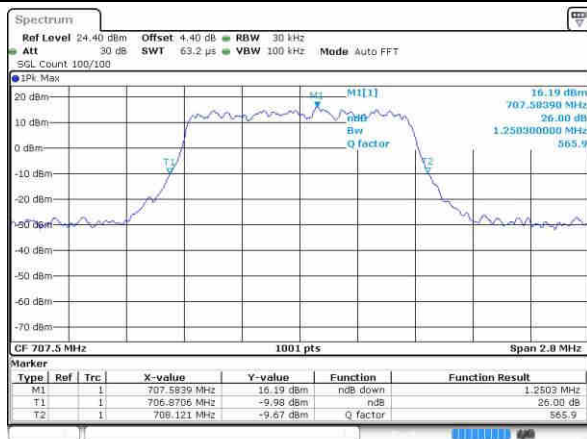
Date: 30 MAR 2017 19:00:55

## Lowest Channel / 1.4MHz / 16QAM



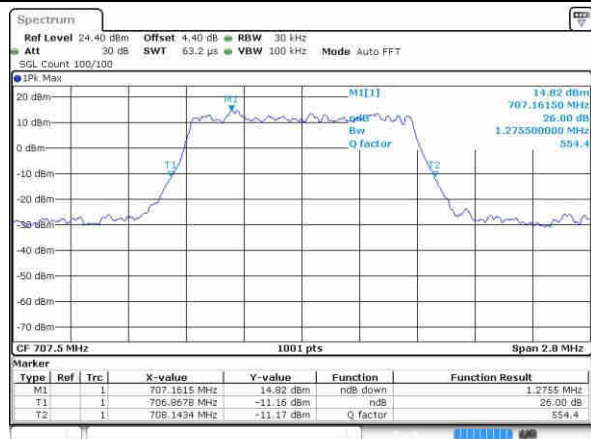
Date: 30 MAR 2017 20:21:24

## Middle Channel / 1.4MHz / QPSK



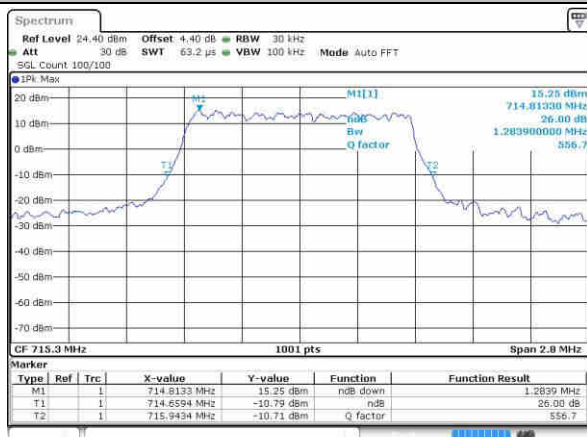
Date: 30 MAR 2017 19:00:24

## Middle Channel / 1.4MHz / 16QAM



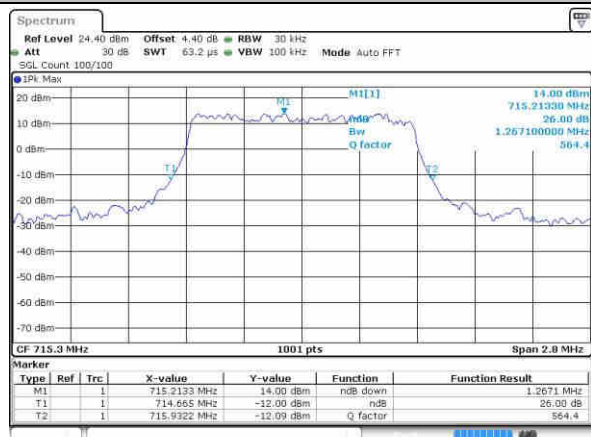
Date: 30 MAR 2017 19:00:34

## Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2017 19:00:13

## Highest Channel / 1.4MHz / 16QAM

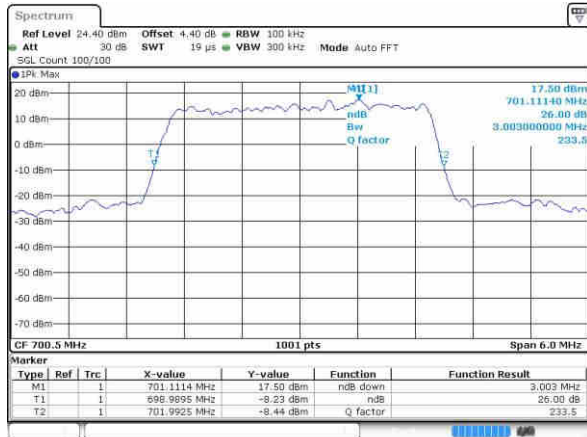


Date: 30 MAR 2017 19:00:03

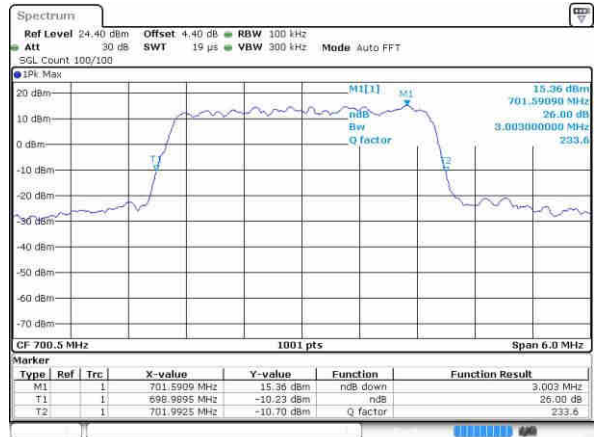


## LTE Band 12

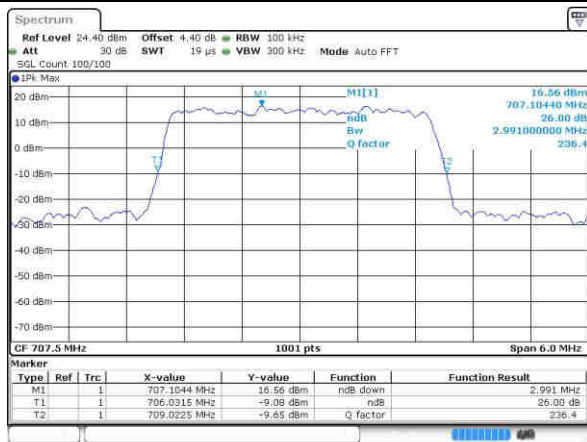
## Lowest Channel / 3MHz / QPSK



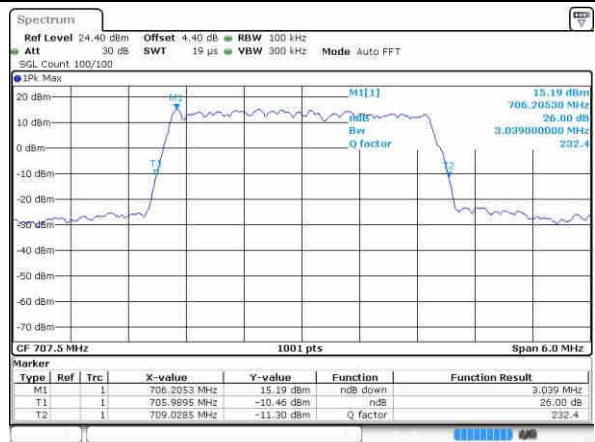
## Lowest Channel / 3MHz / 16QAM



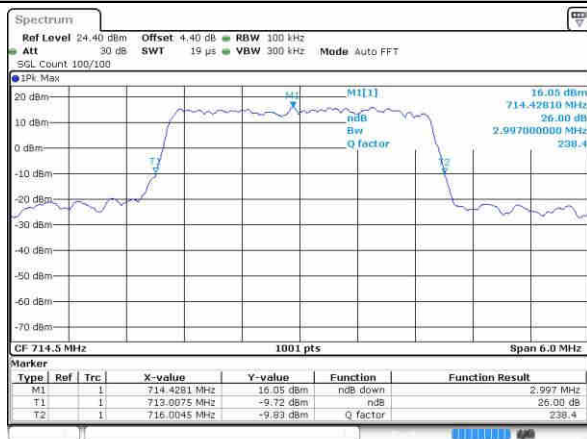
## Middle Channel / 3MHz / QPSK



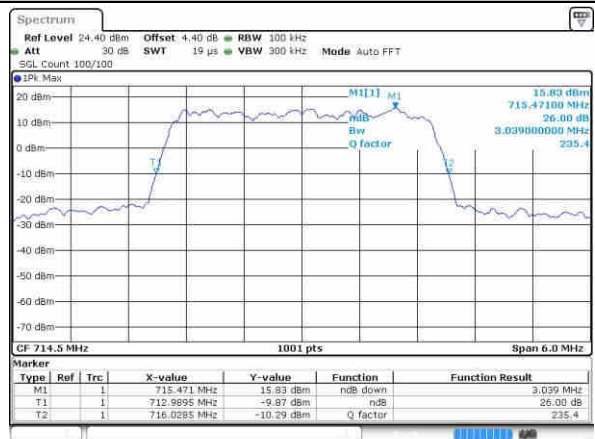
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



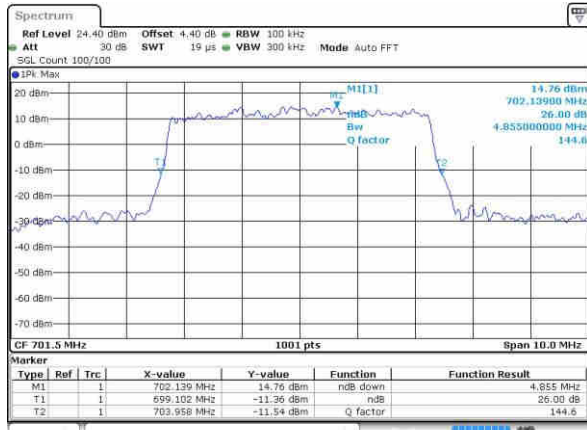
## Highest Channel / 3MHz / 16QAM





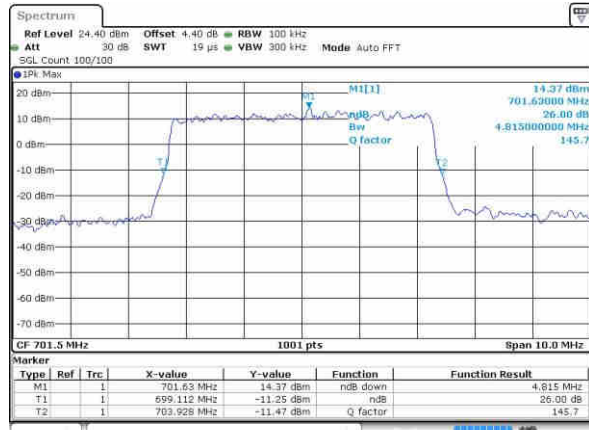
## LTE Band 12

## Lowest Channel / 5MHz / QPSK



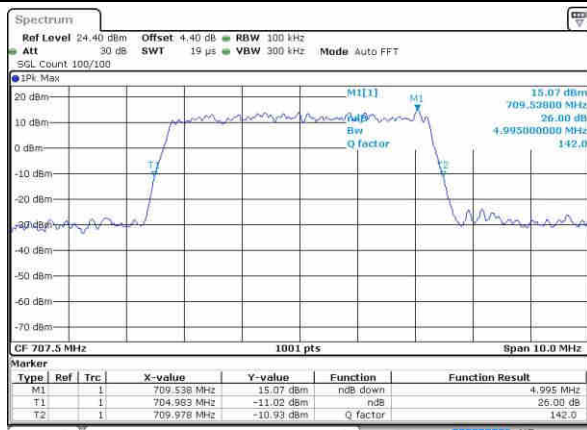
Date: 30 MAR 2017 19:34:21

## Lowest Channel / 5MHz / 16QAM



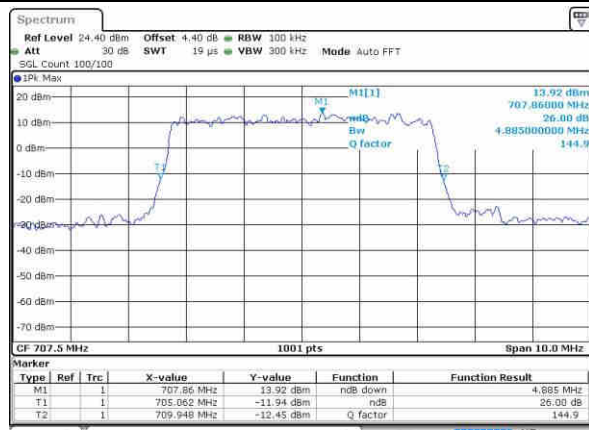
Date: 30 MAR 2017 19:34:11

## Middle Channel / 5MHz / QPSK



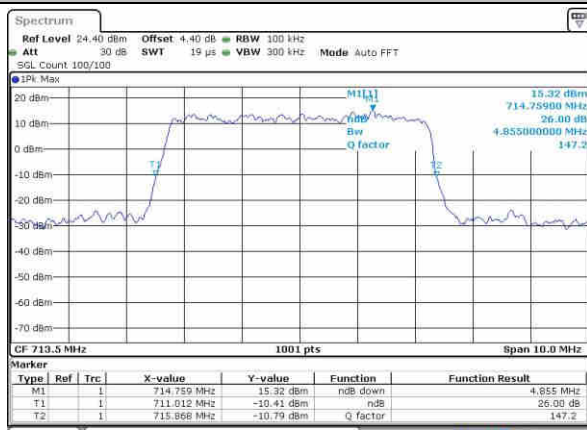
Date: 30 MAR 2017 19:33:50

## Middle Channel / 5MHz / 16QAM



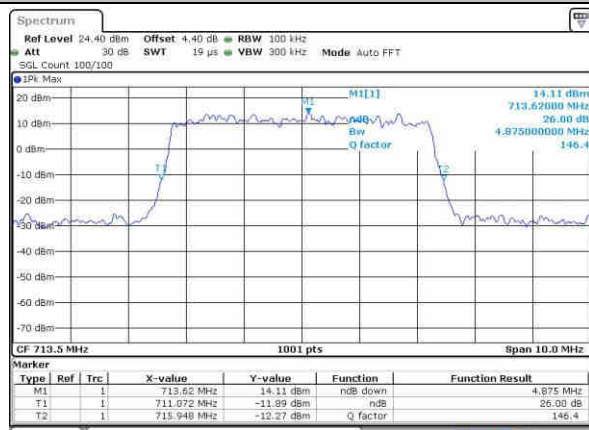
Date: 30 MAR 2017 19:34:00

## Highest Channel / 5MHz / QPSK



Date: 30 MAR 2017 19:33:40

## Highest Channel / 5MHz / 16QAM

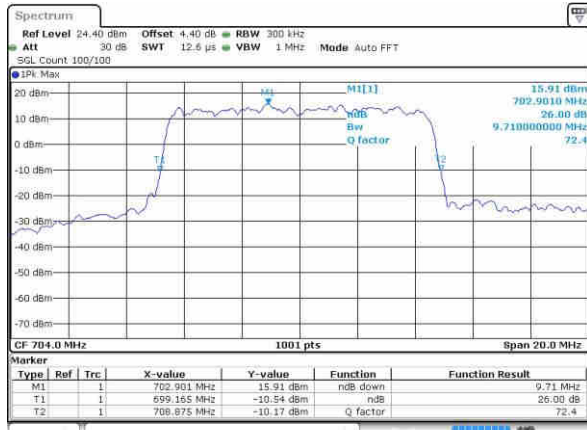


Date: 30 MAR 2017 20:33:13

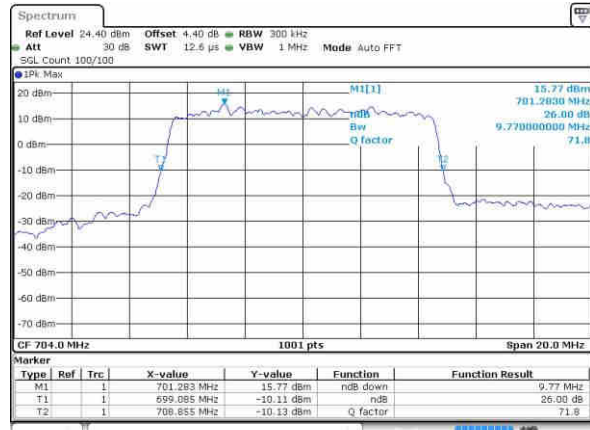


## LTE Band 12

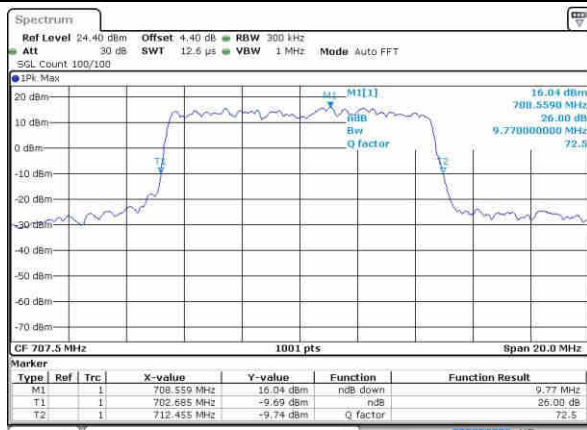
## Lowest Channel / 10MHz / QPSK



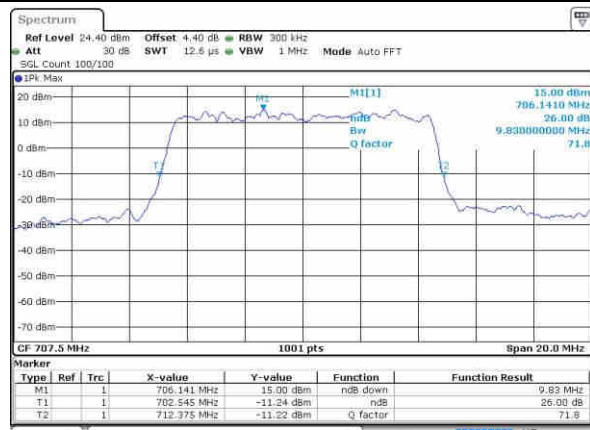
## Lowest Channel / 10MHz / 16QAM



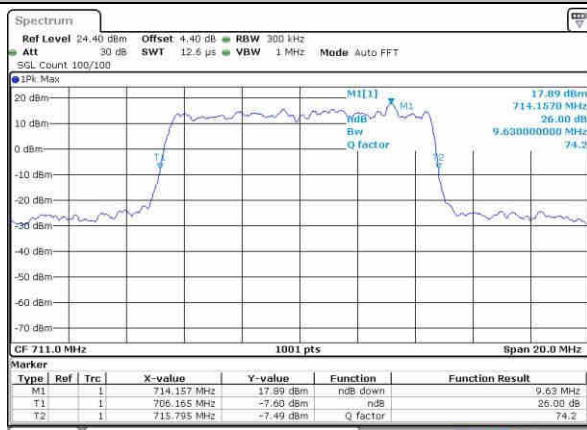
## Middle Channel / 10MHz / QPSK



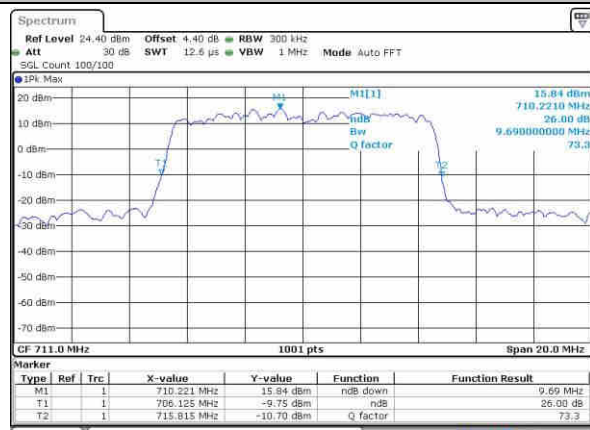
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



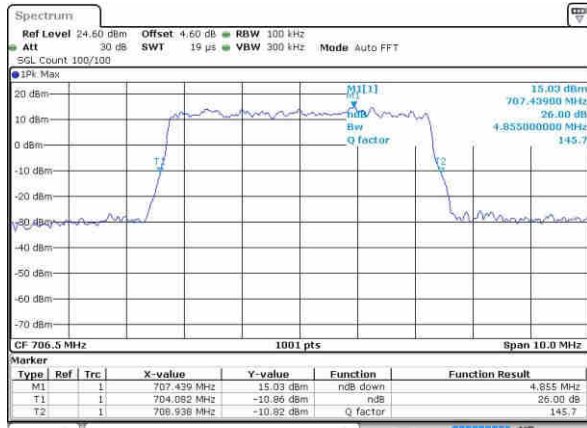
## Highest Channel / 10MHz / 16QAM





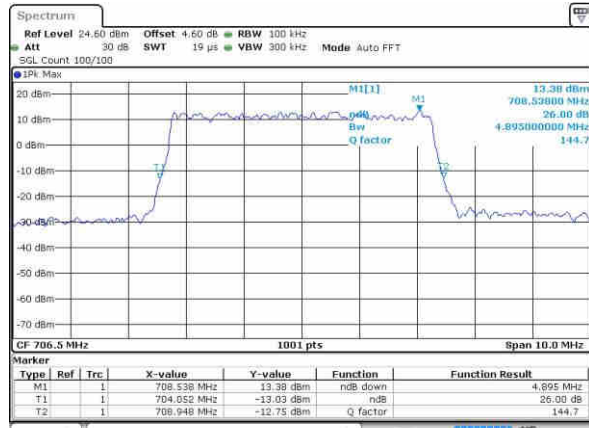
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



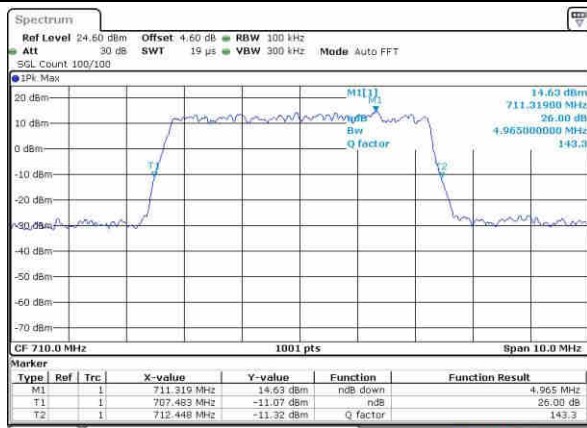
Date: 30 MAR 2017 00:30:04

## Lowest Channel / 5MHz / 16QAM



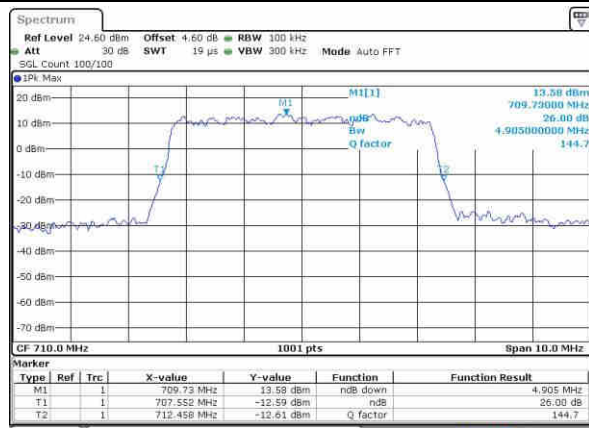
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## Middle Channel / 5MHz / QPSK



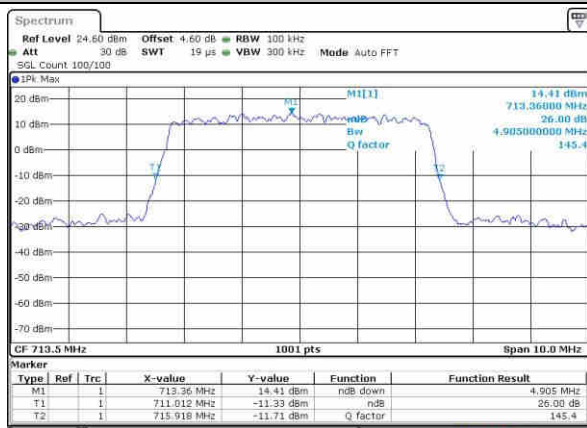
Date: 30 MAR 2017 00:37:08

## Middle Channel / 5MHz / 16QAM



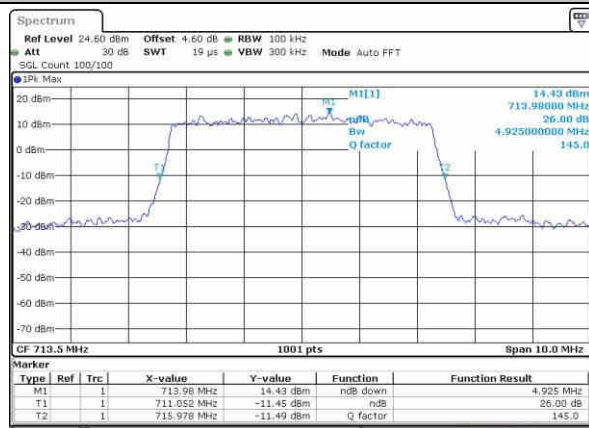
Date: 30 MAR 2017 00:37:20

## Highest Channel / 5MHz / QPSK



Date: 30 MAR 2017 00:39:42

## Highest Channel / 5MHz / 16QAM

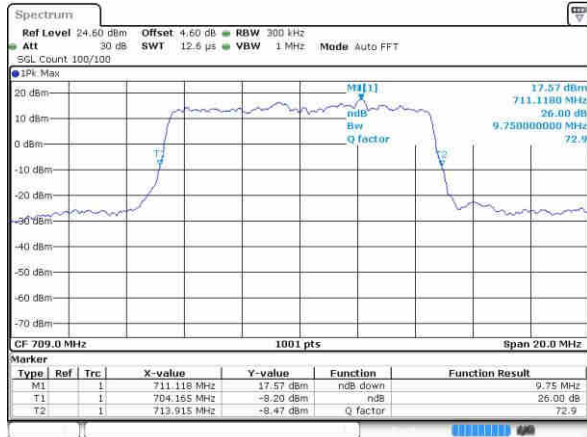


Date: 30 MAR 2017 00:39:52



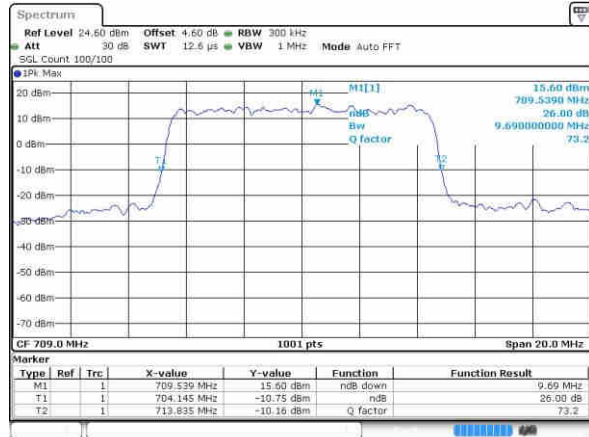
## LTE Band 17

## Lowest Channel / 10MHz / QPSK



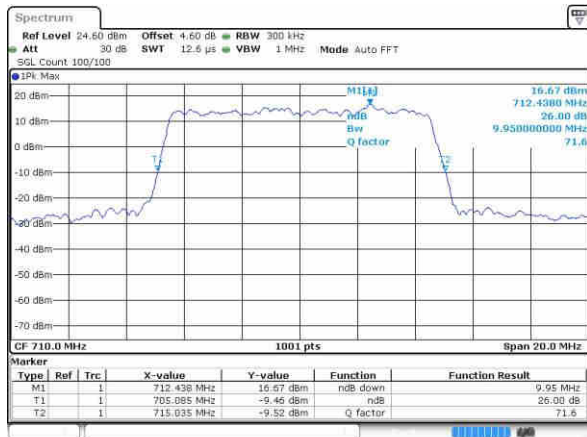
Date: 30 MAR 2017 00:46:46

## Lowest Channel / 10MHz / 16QAM



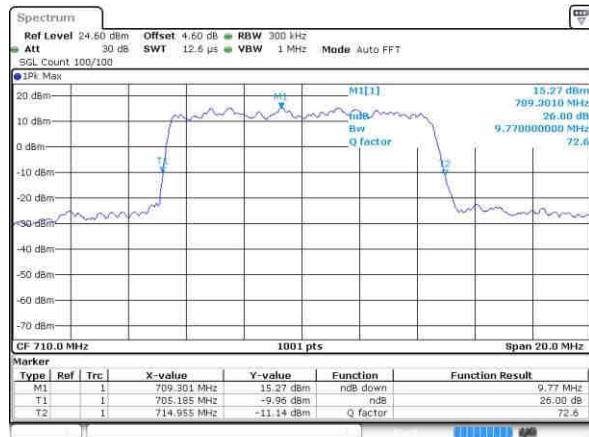
Date: 30 MAR 2017 00:46:57

## Middle Channel / 10MHz / QPSK



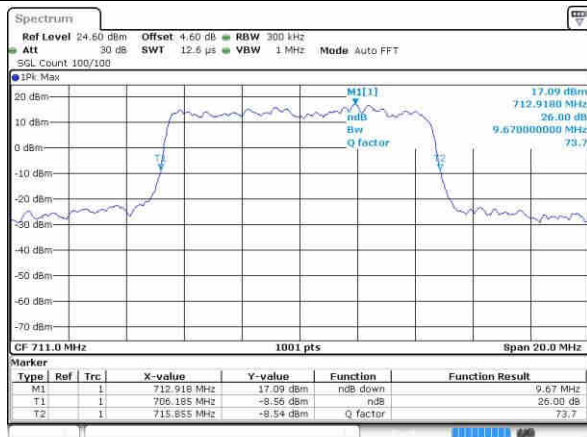
Date: 30 MAR 2017 00:53:51

## Middle Channel / 10MHz / 16QAM



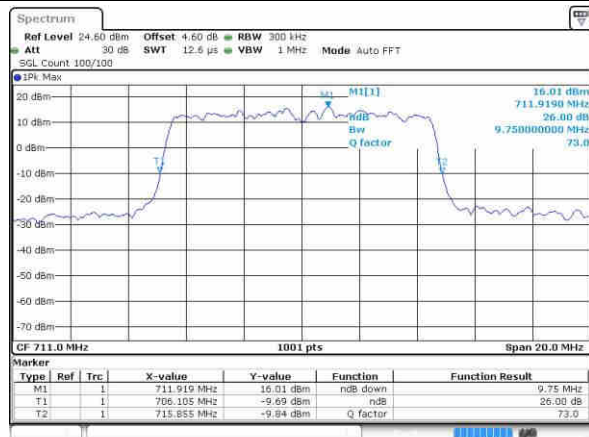
Date: 30 MAR 2017 00:54:01

## Highest Channel / 10MHz / QPSK



Date: 30 MAR 2017 00:56:23

## Highest Channel / 10MHz / 16QAM



Date: 30 MAR 2017 00:56:34

**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  | 1.08                     | 1.09  | 2.70 | 2.70  | 4.48 | 4.47  | 9.01  | 9.07  | 13.37 | 13.40 | 18.18 | 18.30 |
| Middle CH  | 1.09                     | 1.09  | 2.70 | 2.73  | 4.50 | 4.50  | 9.01  | 8.99  | 13.46 | 13.37 | 18.10 | 18.14 |
| Highest CH | 1.09                     | 1.09  | 2.74 | 2.73  | 4.49 | 4.50  | 8.95  | 8.93  | 13.25 | 13.28 | 18.18 | 18.22 |

| 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 | 2.73  | 4.49 | 4.51  | 9.01  | 8.99  | 13.40 | 13.49 | 18.34 | 18.30 |
| Middle CH  | 1.09                     | 1.10  | 2.70 | 2.71  | 4.49 | 4.51  | 9.01  | 8.99  | 13.40 | 13.40 | 18.26 | 18.34 |
| Highest CH | 1.09                     | 1.09  | 2.73 | 2.70  | 4.48 | 4.49  | 9.05  | 9.01  | 13.49 | 13.37 | 18.26 | 18.30 |

| Mode       | LTE Band 5 : 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  | 2.74 | 2.72  | 4.51 | 4.47  | 9.15  | 9.05  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.10  | 2.70 | 2.72  | 4.47 | 4.49  | 8.97  | 8.97  | -     | -     | -     | -     |
| Highest CH | 1.10                     | 1.09  | 2.70 | 2.72  | 4.49 | 4.48  | 9.09  | 9.09  | -     | -     | -     | -     |

| 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  | -                        | -     | -    | -     | 4.48 | 4.49  | 9.01  | 9.05  | 13.43 | 13.46 | 18.38 | 18.26 |
| Middle CH  | -                        | -     | -    | -     | 4.50 | 4.48  | 8.99  | 9.01  | 13.43 | 13.40 | 18.06 | 18.14 |
| Highest CH | -                        | -     | -    | -     | 4.47 | 4.47  | 8.97  | 9.03  | 13.37 | 13.37 | 18.18 | 18.26 |



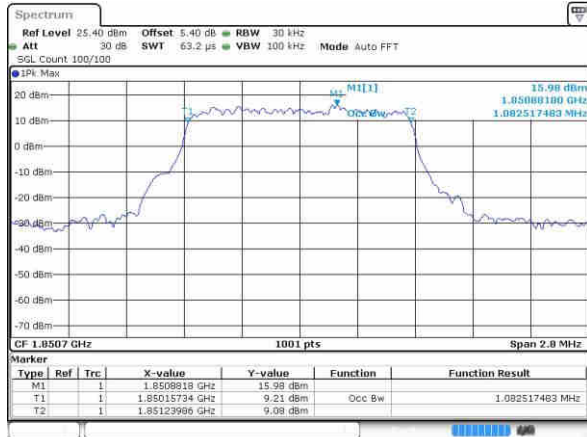
| Mode       | LTE Band 12 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                      | 1.10  | 2.72 | 2.71  | 4.48 | 4.47  | 9.05  | 8.99  | -     | -     | -     | -     |
| Middle CH  | 1.09                      | 1.09  | 2.72 | 2.72  | 4.48 | 4.51  | 8.99  | 9.01  | -     | -     | -     | -     |
| Highest CH | 1.10                      | 1.09  | 2.71 | 2.72  | 4.49 | 4.49  | 8.99  | 8.97  | -     | -     | -     | -     |

| 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  | -                         | -     | -    | -     | 4.48 | 4.50  | 9.05  | 9.03  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.49 | 4.51  | 9.03  | 8.97  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.48 | 4.50  | 9.05  | 8.97  | -     | -     | -     | -     |

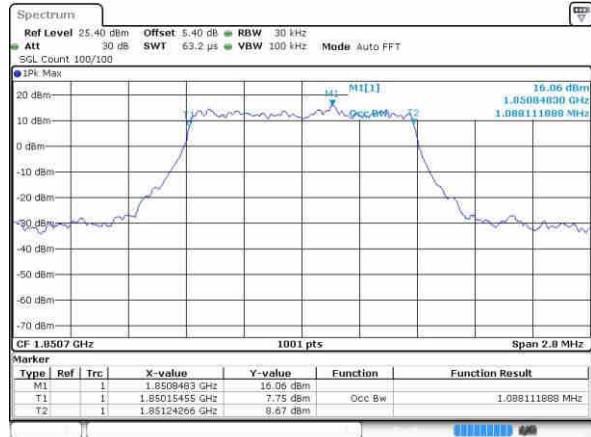


## LTE Band 2

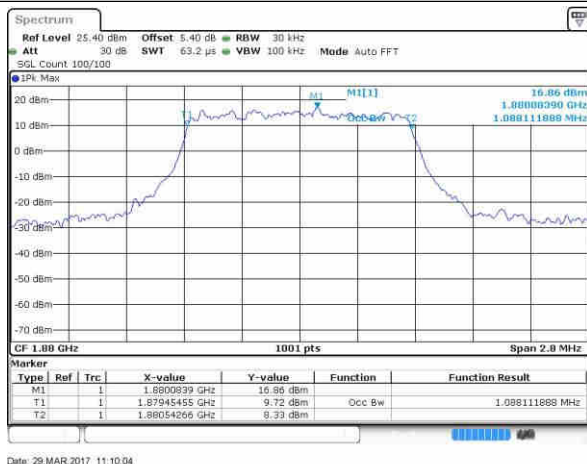
## Lowest Channel / 1.4MHz / QPSK



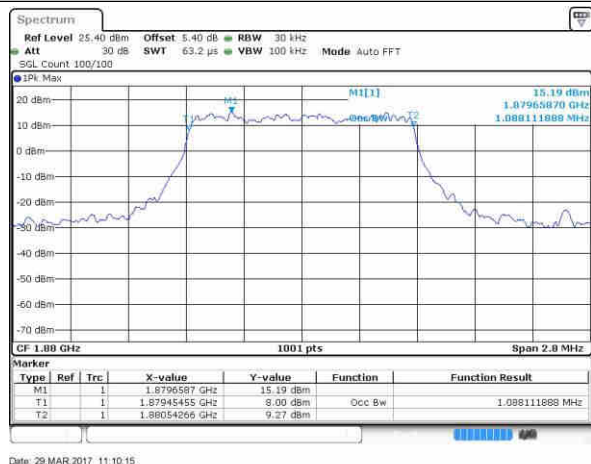
## Lowest Channel / 1.4MHz / 16QAM



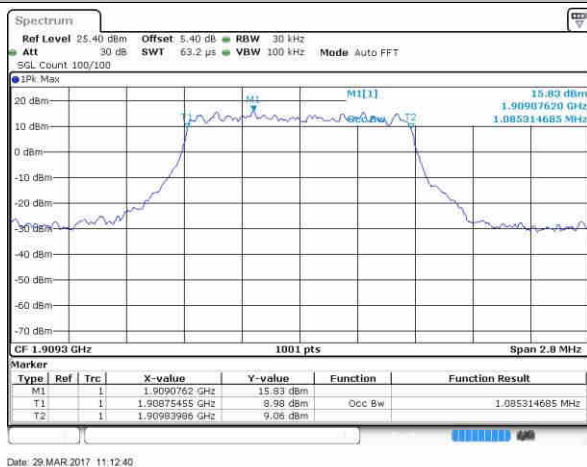
## Middle Channel / 1.4MHz / QPSK



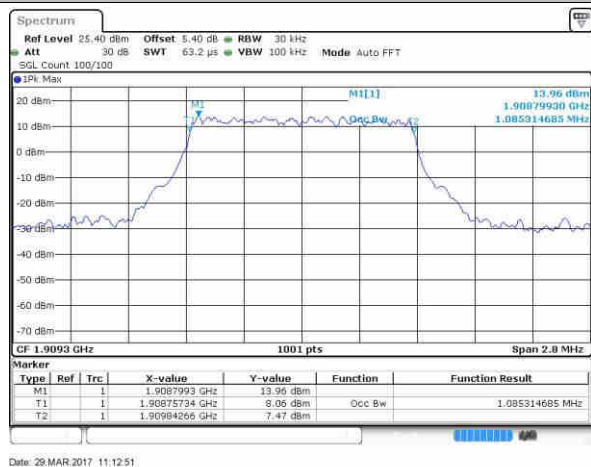
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



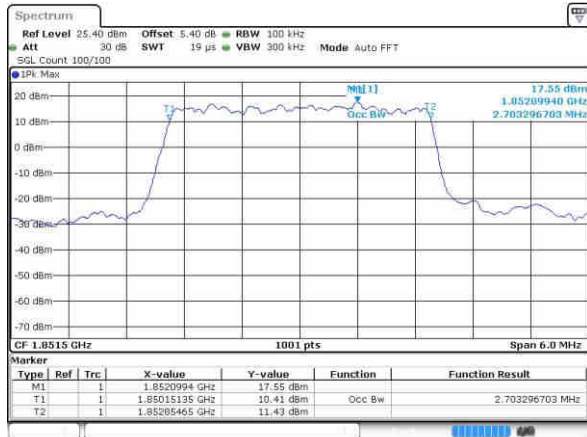
## Highest Channel / 1.4MHz / 16QAM



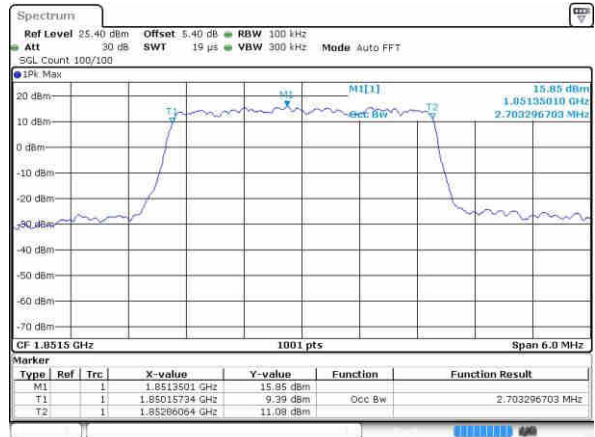


## LTE Band 2

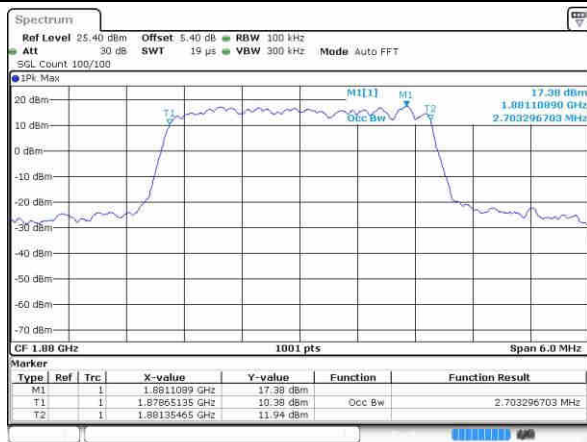
## Lowest Channel / 3MHz / QPSK



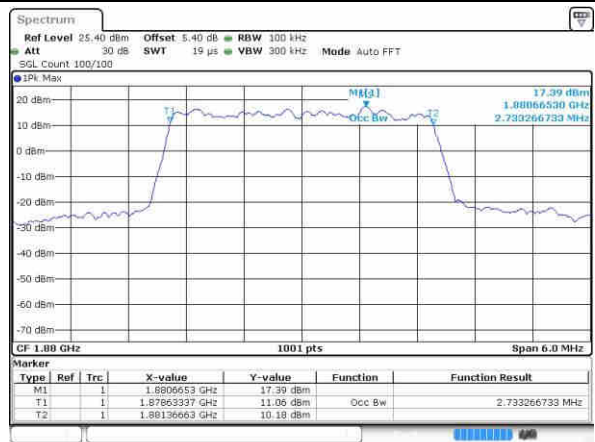
## Lowest Channel / 3MHz / 16QAM



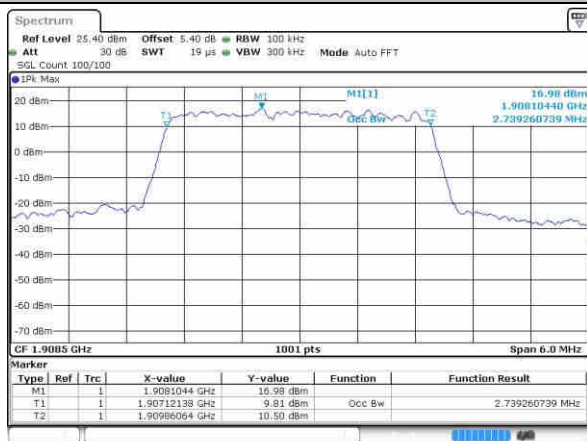
## Middle Channel / 3MHz / QPSK



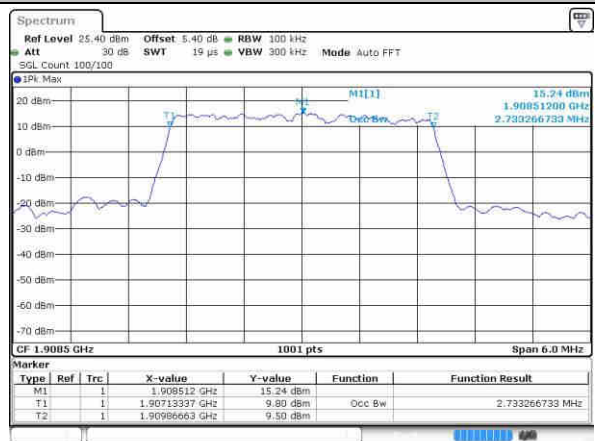
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



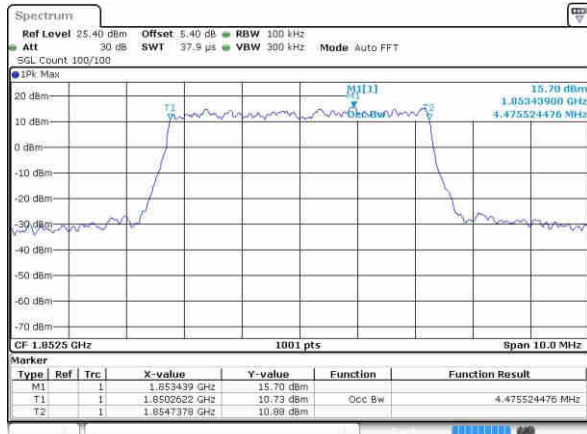
## Highest Channel / 3MHz / 16QAM



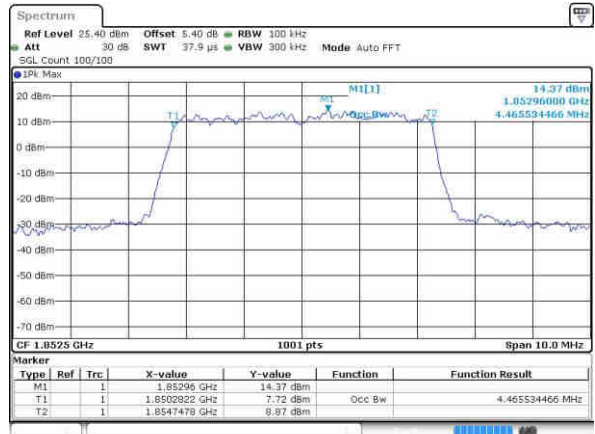


## LTE Band 2

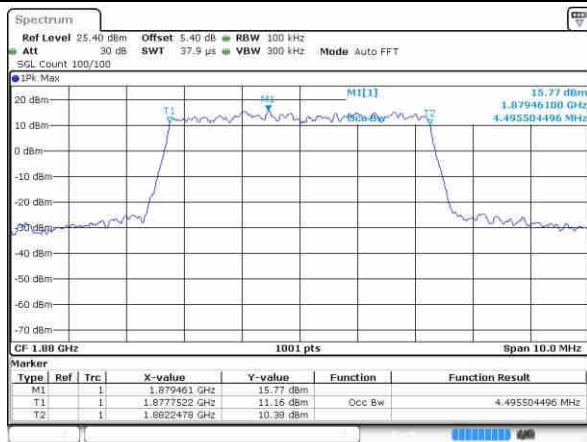
## Lowest Channel / 5MHz / QPSK



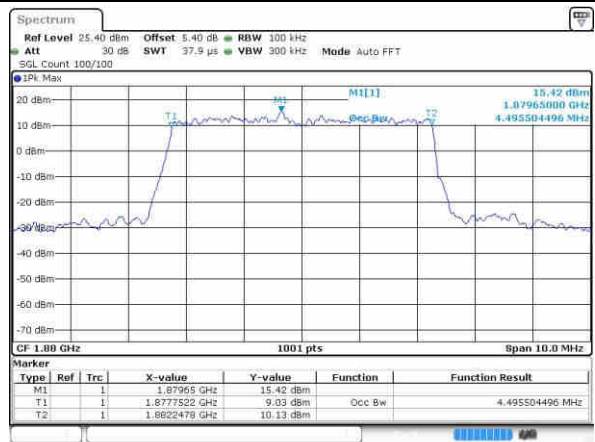
## Lowest Channel / 5MHz / 16QAM



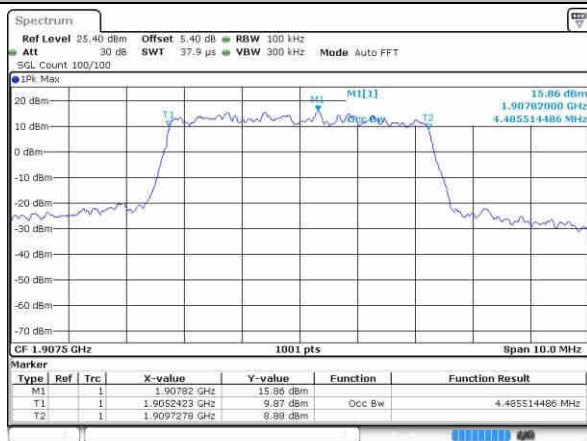
## Middle Channel / 5MHz / QPSK



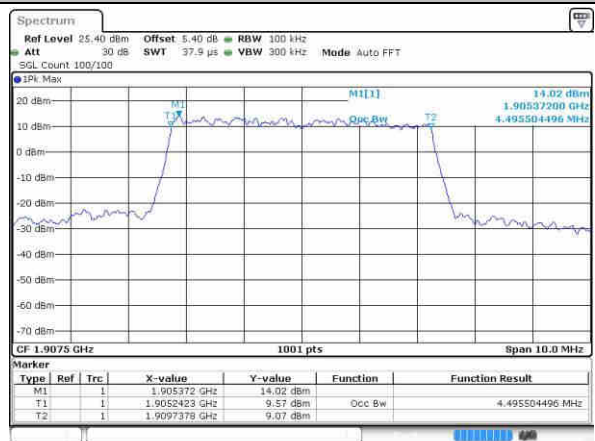
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



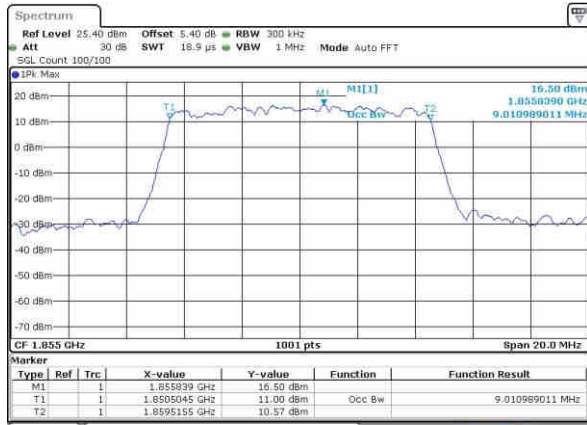
## Highest Channel / 5MHz / 16QAM



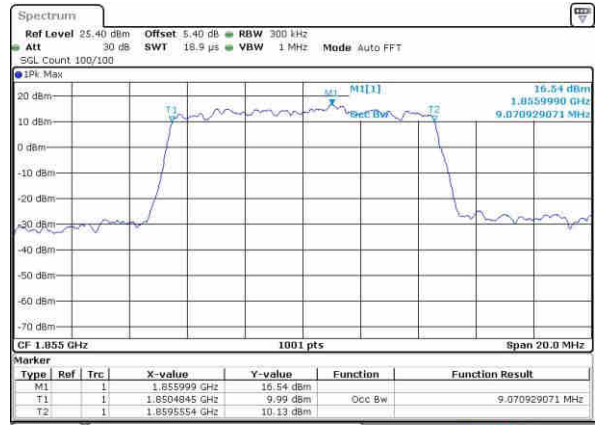


## LTE Band 2

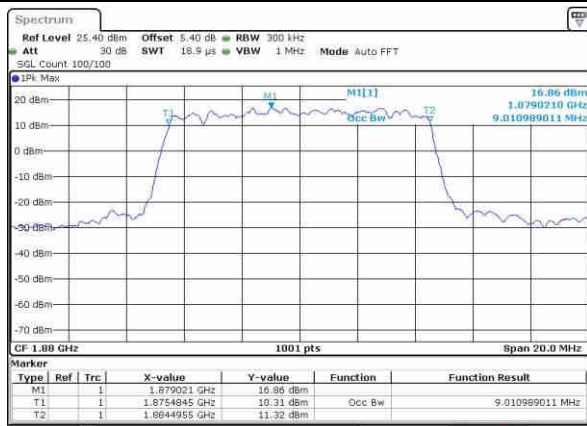
## Lowest Channel / 10MHz / QPSK



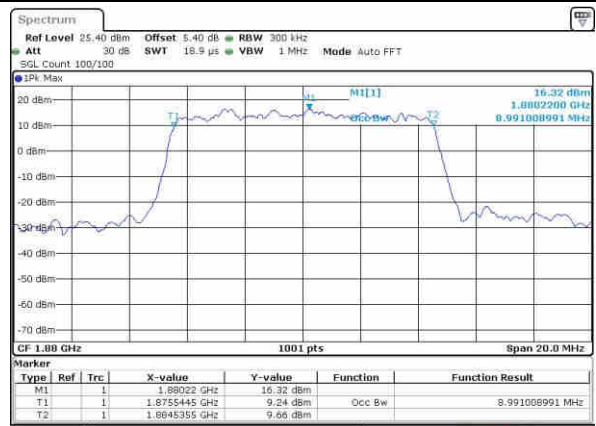
## Lowest Channel / 10MHz / 16QAM



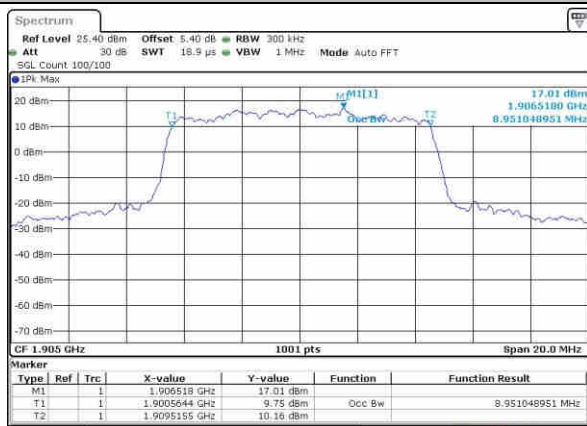
## Middle Channel / 10MHz / QPSK



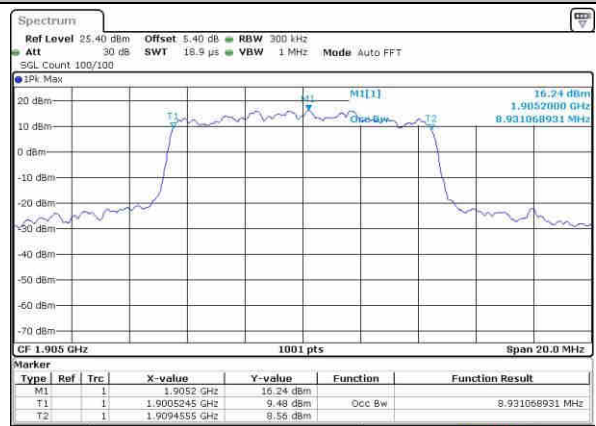
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



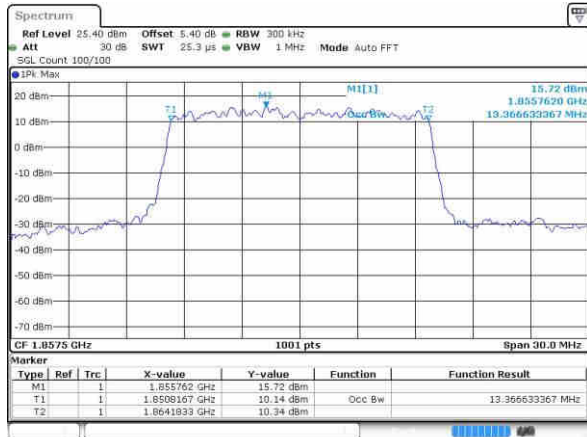
## Highest Channel / 10MHz / 16QAM



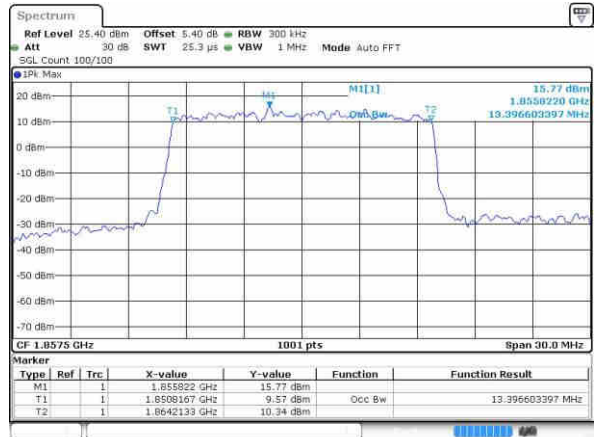


## LTE Band 2

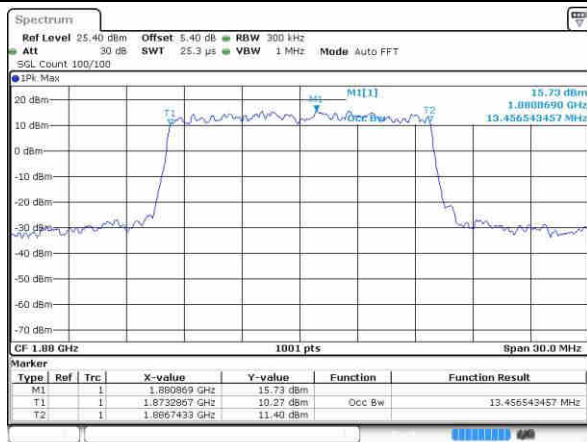
## Lowest Channel / 15MHz / QPSK



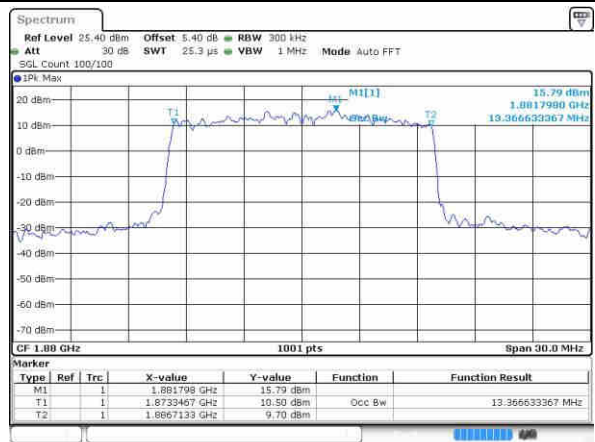
## Lowest Channel / 15MHz / 16QAM



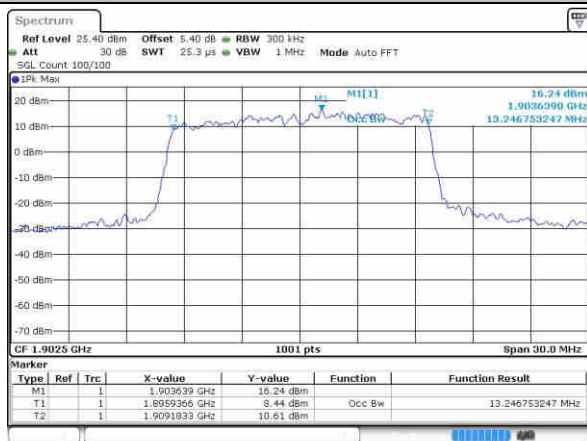
## Middle Channel / 15MHz / QPSK



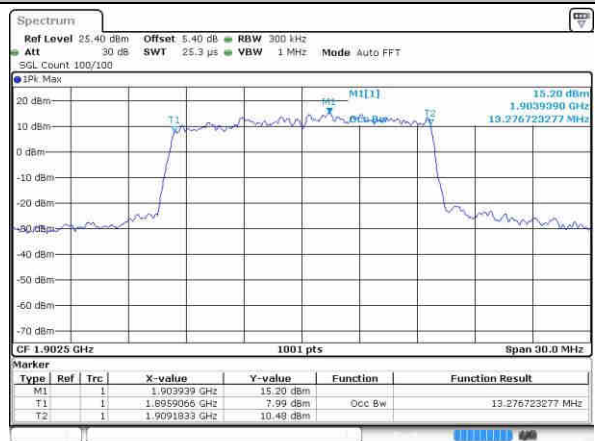
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



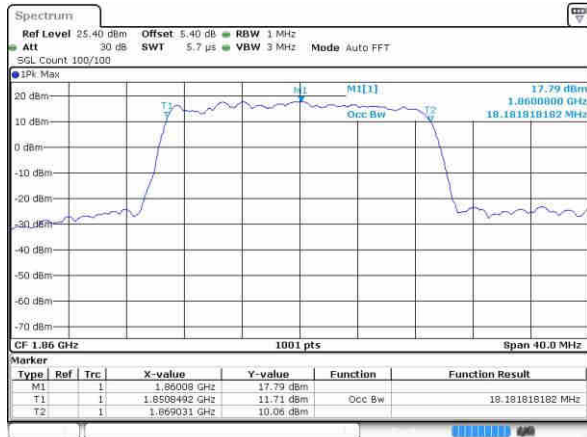
## Highest Channel / 15MHz / 16QAM



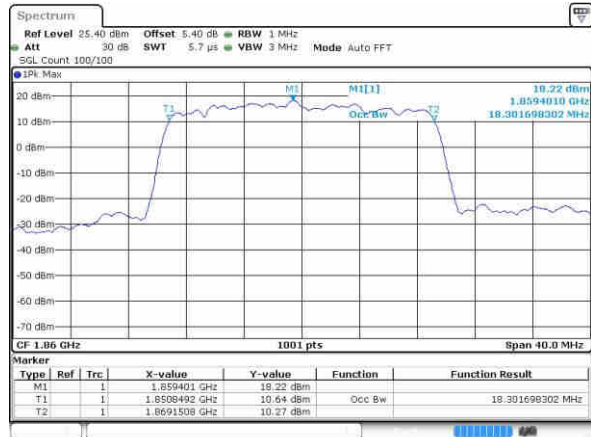


## LTE Band 2

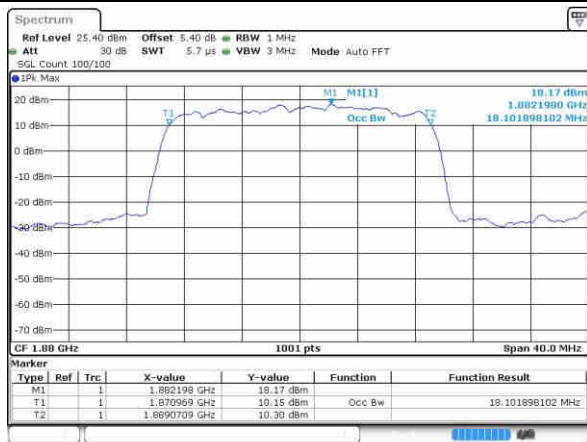
## Lowest Channel / 20MHz / QPSK



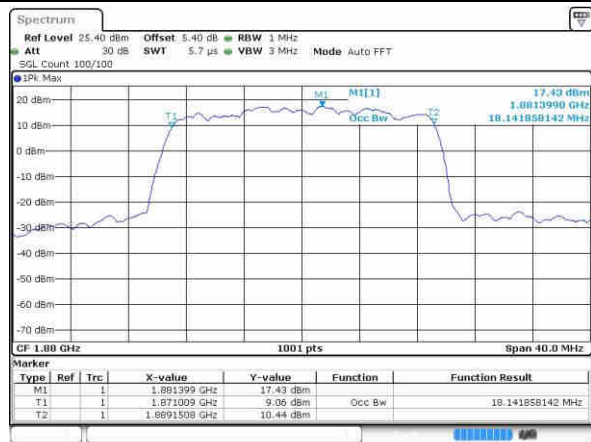
## Lowest Channel / 20MHz / 16QAM



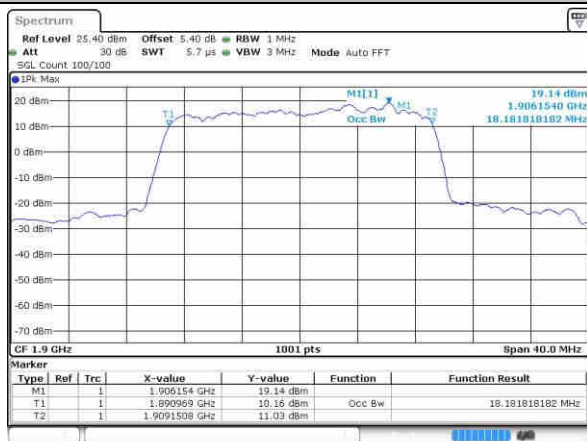
## Middle Channel / 20MHz / QPSK



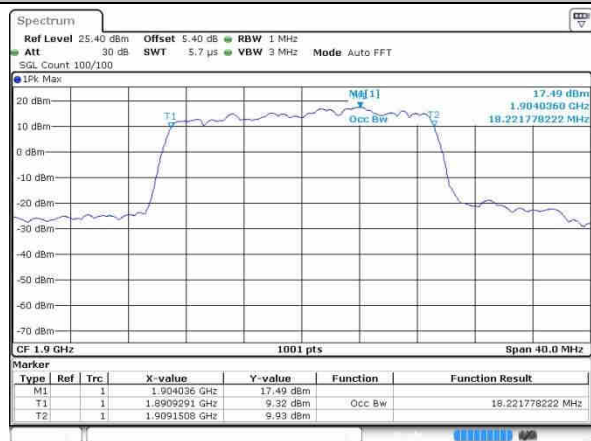
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



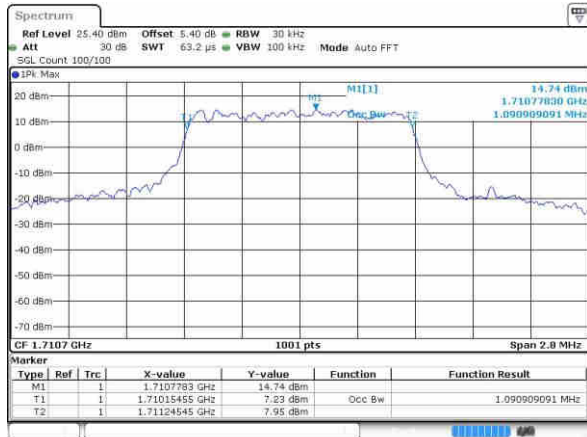
## Highest Channel / 20MHz / 16QAM



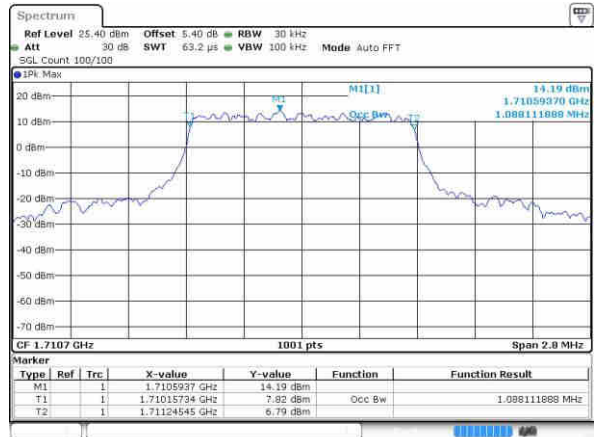


## LTE Band 4

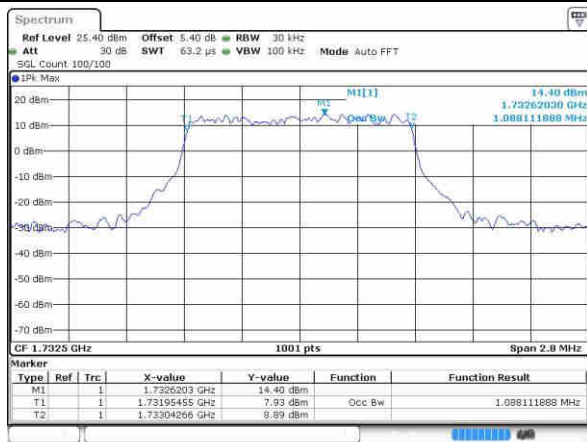
## Lowest Channel / 1.4MHz / QPSK



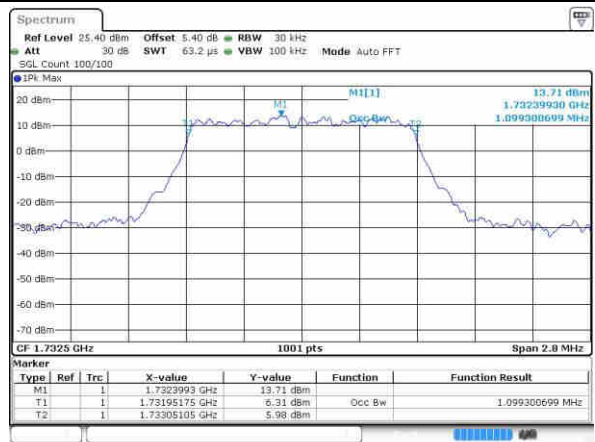
## Lowest Channel / 1.4MHz / 16QAM



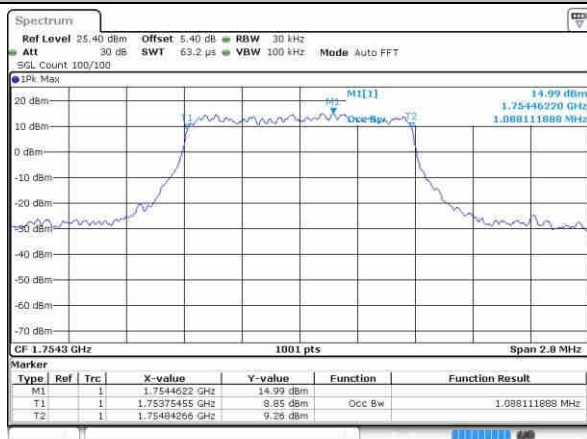
## Middle Channel / 1.4MHz / QPSK



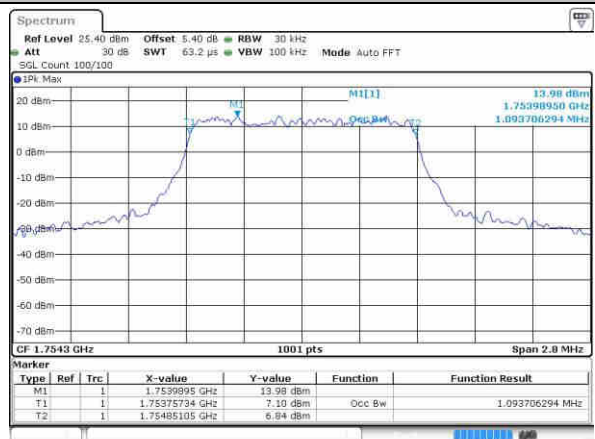
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



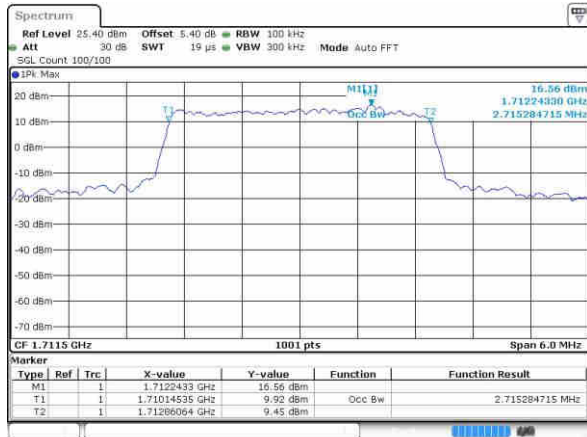
## Highest Channel / 1.4MHz / 16QAM



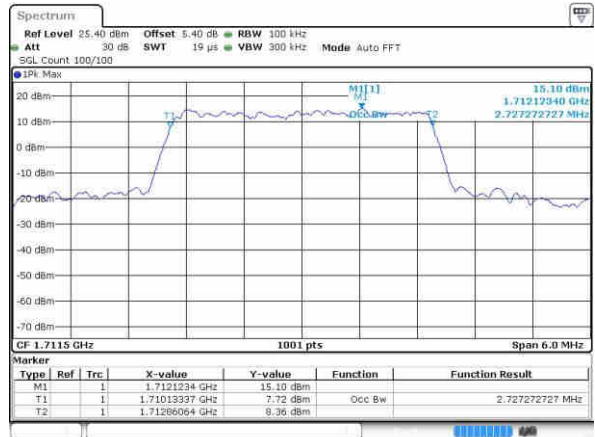


## LTE Band 4

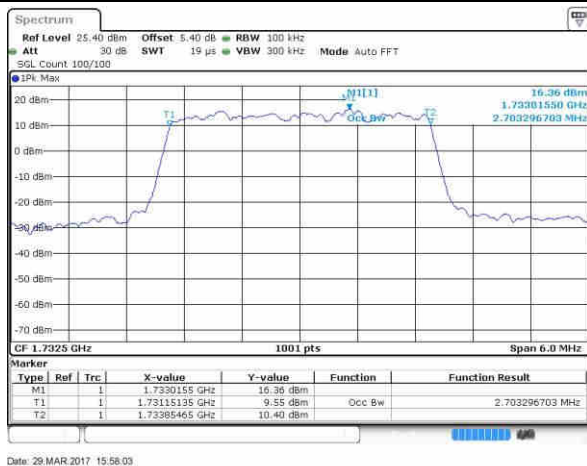
## Lowest Channel / 3MHz / QPSK



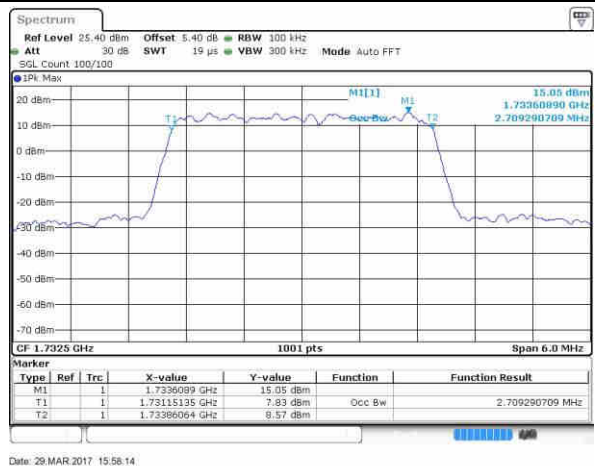
## Lowest Channel / 3MHz / 16QAM



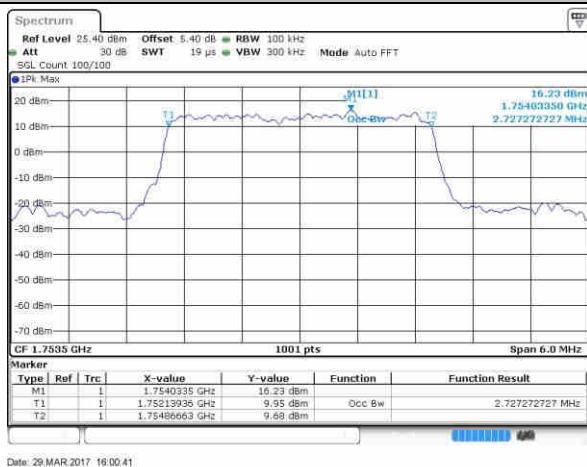
## Middle Channel / 3MHz / QPSK



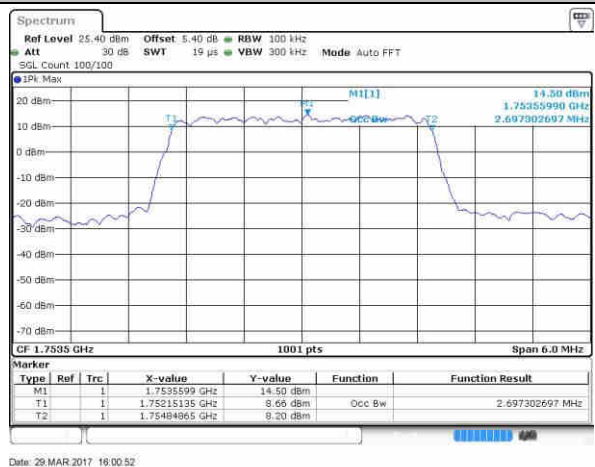
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



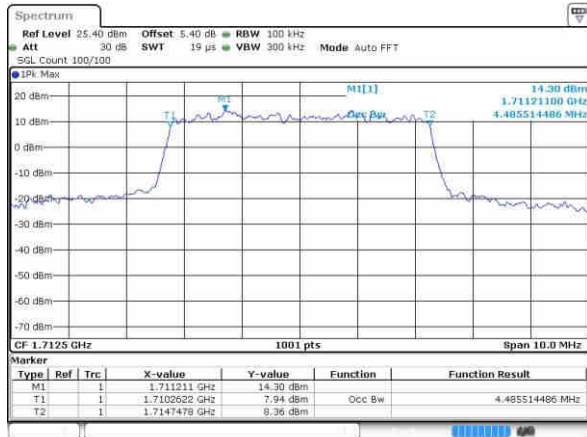
## Highest Channel / 3MHz / 16QAM



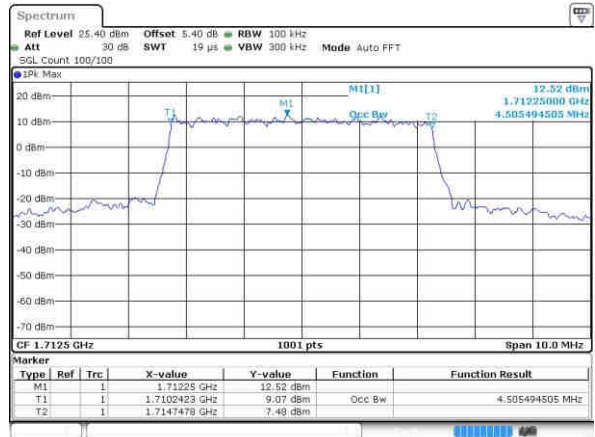


## LTE Band 4

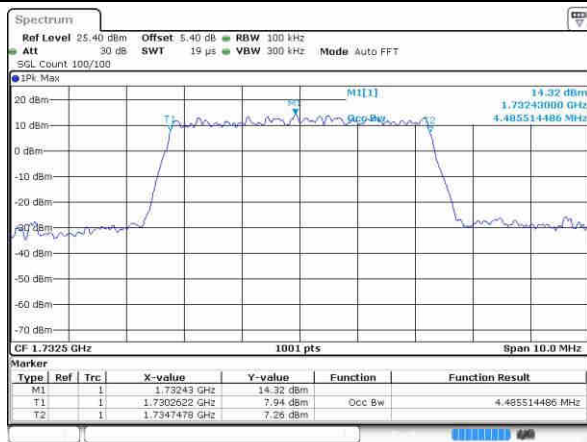
## Lowest Channel / 5MHz / QPSK



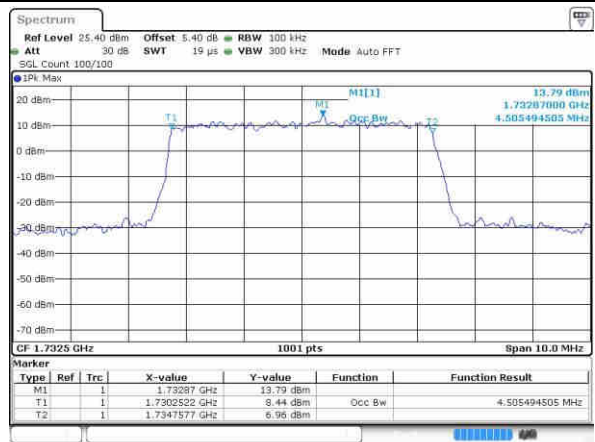
## Lowest Channel / 5MHz / 16QAM



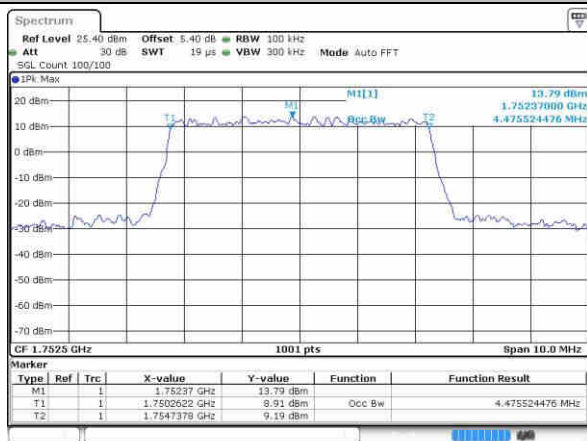
## Middle Channel / 5MHz / QPSK



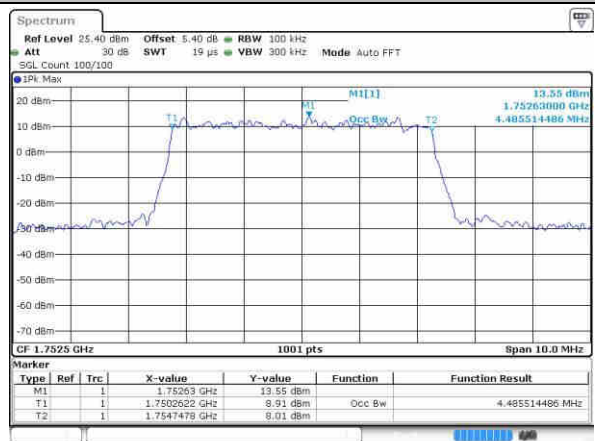
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



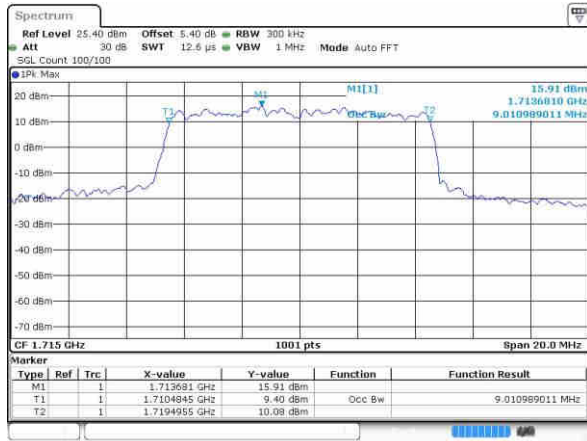
## Highest Channel / 5MHz / 16QAM



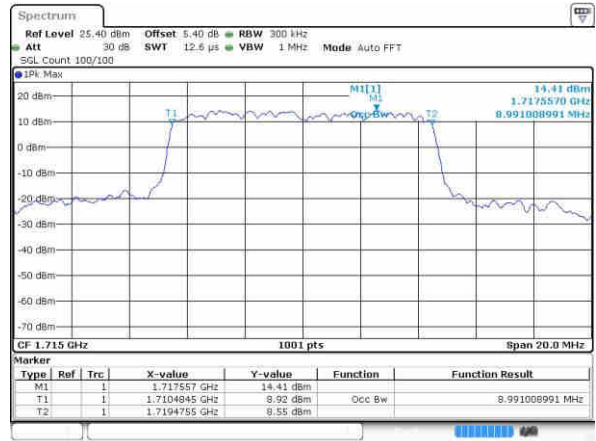


## LTE Band 4

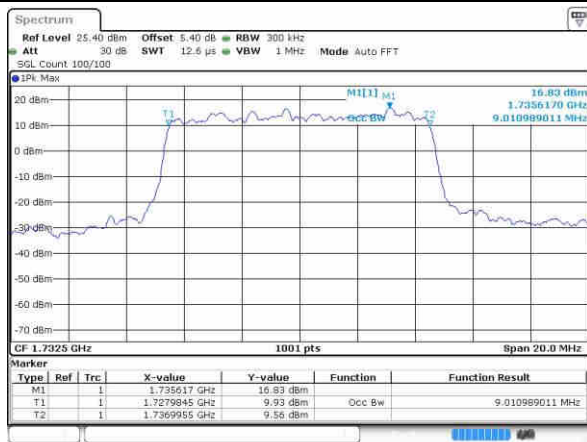
## Lowest Channel / 10MHz / QPSK



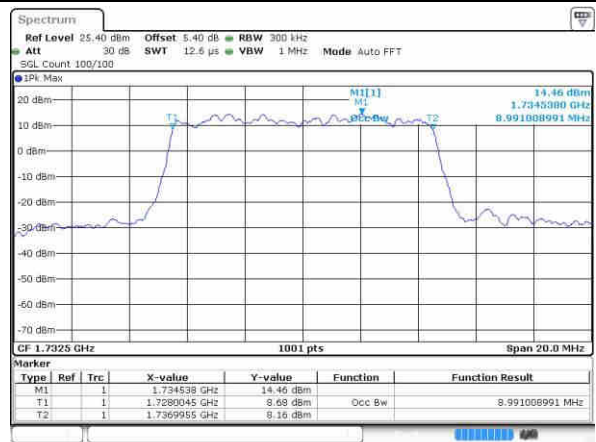
## Lowest Channel / 10MHz / 16QAM



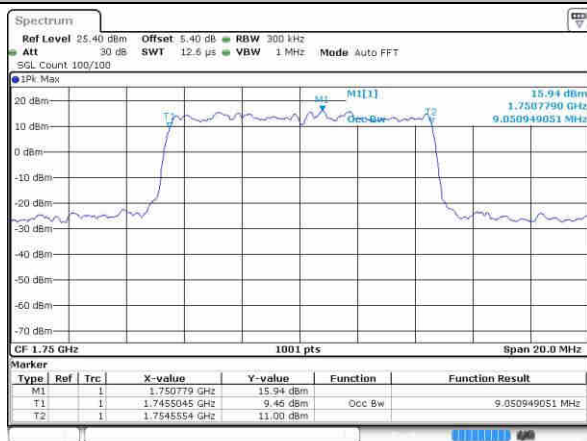
## Middle Channel / 10MHz / QPSK



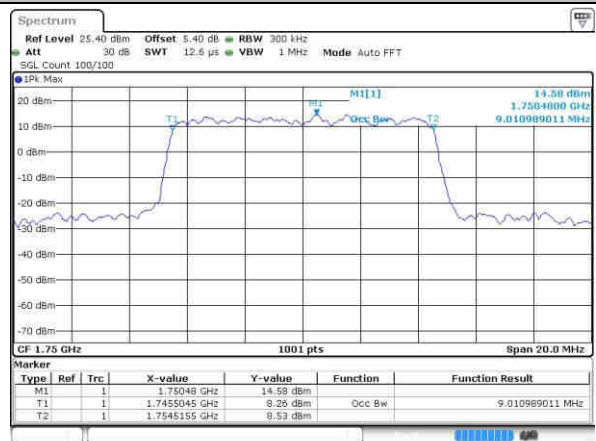
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



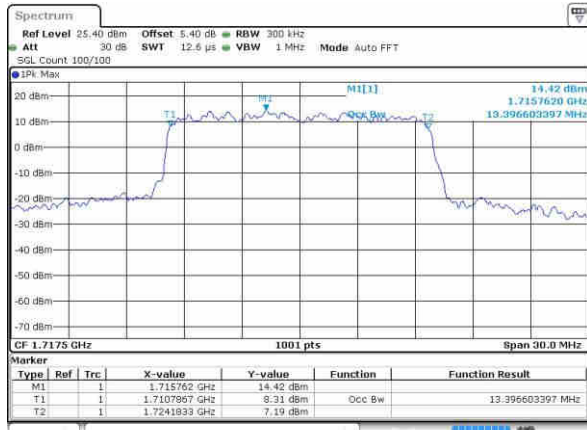
## Highest Channel / 10MHz / 16QAM



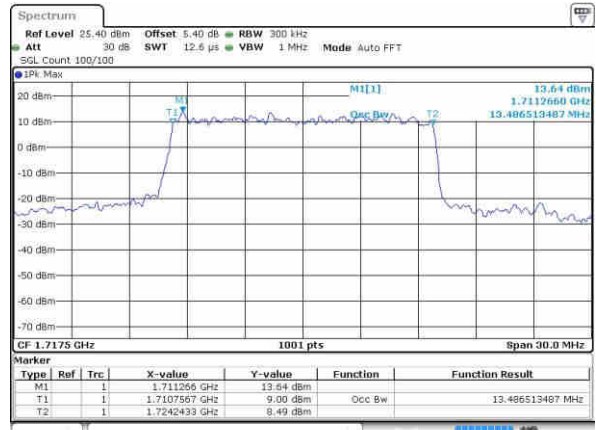


## LTE Band 4

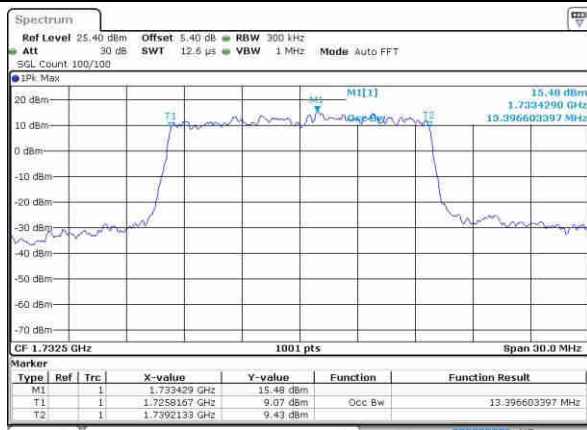
## Lowest Channel / 15MHz / QPSK



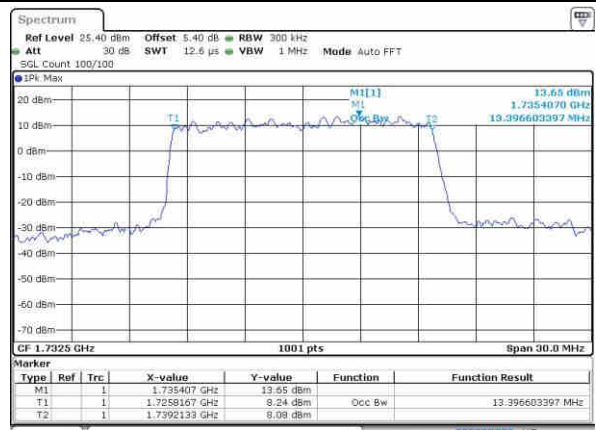
## Lowest Channel / 15MHz / 16QAM



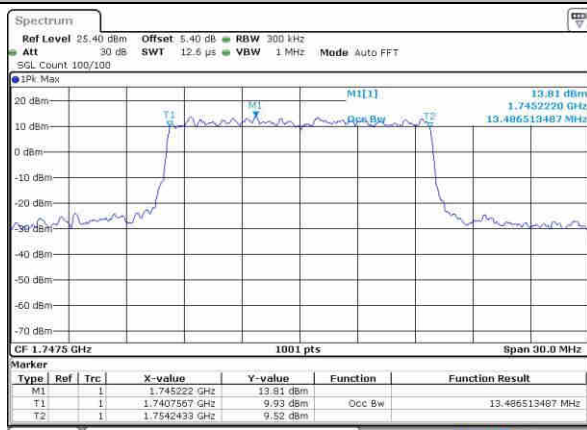
## Middle Channel / 15MHz / QPSK



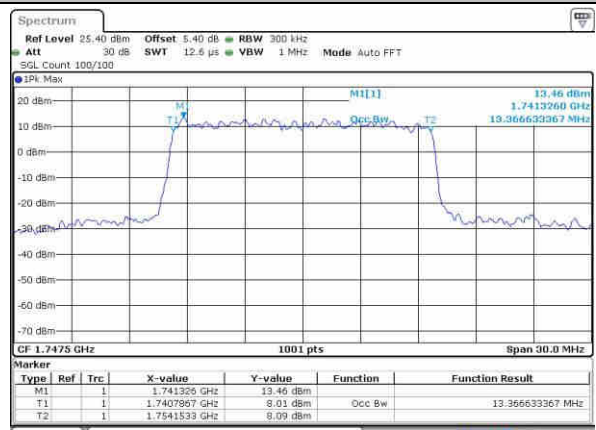
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



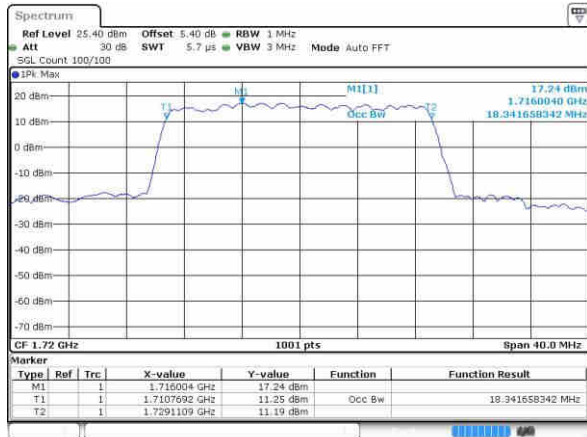
## Highest Channel / 15MHz / 16QAM



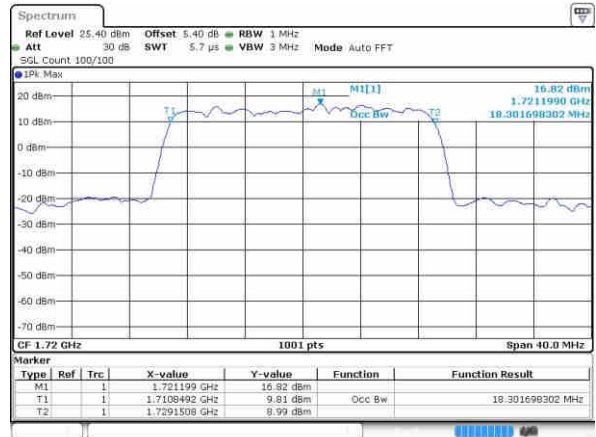


## LTE Band 4

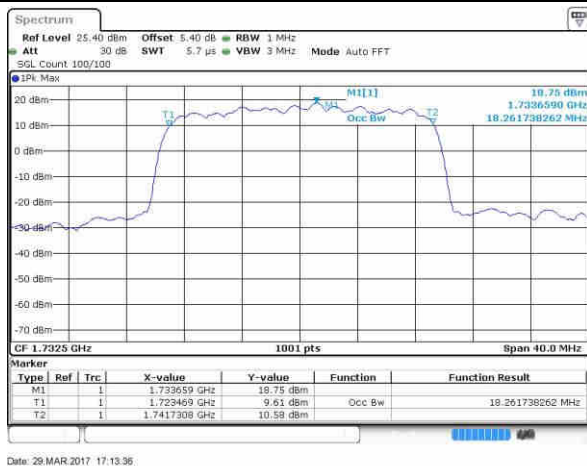
## Lowest Channel / 20MHz / QPSK



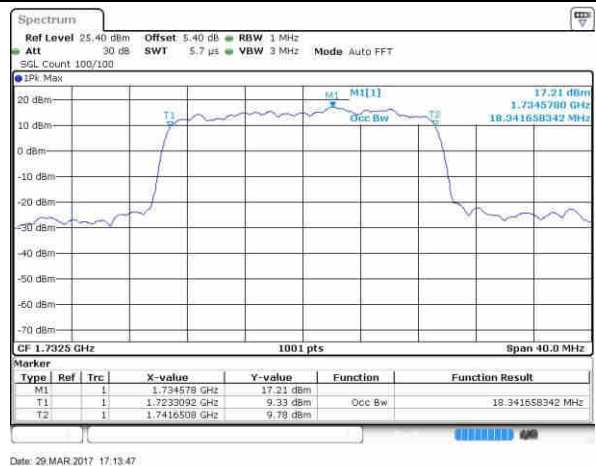
## Lowest Channel / 20MHz / 16QAM



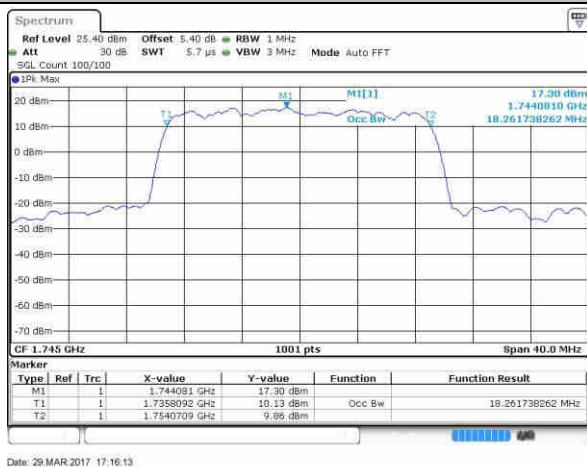
## Middle Channel / 20MHz / QPSK



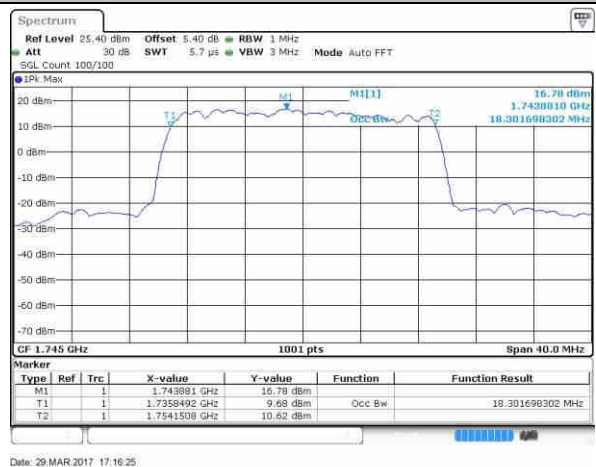
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



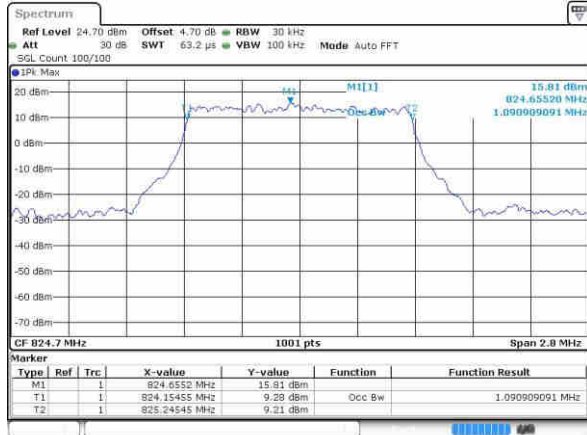
## Highest Channel / 20MHz / 16QAM



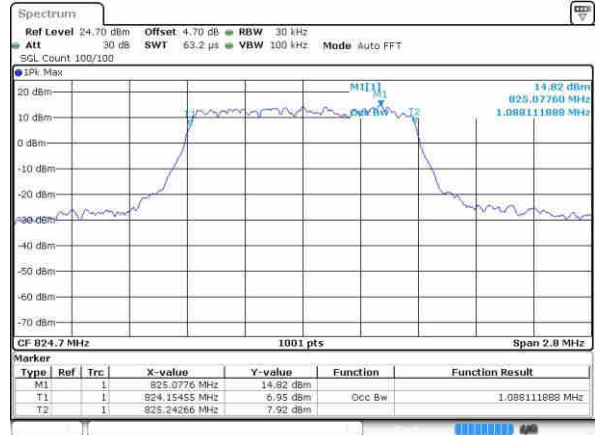


## LTE Band 5

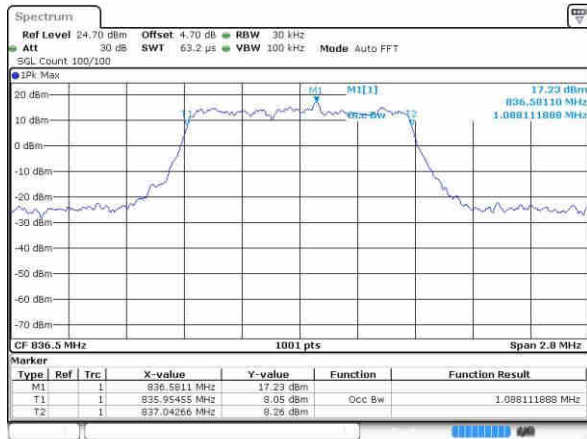
## Lowest Channel / 1.4MHz / QPSK



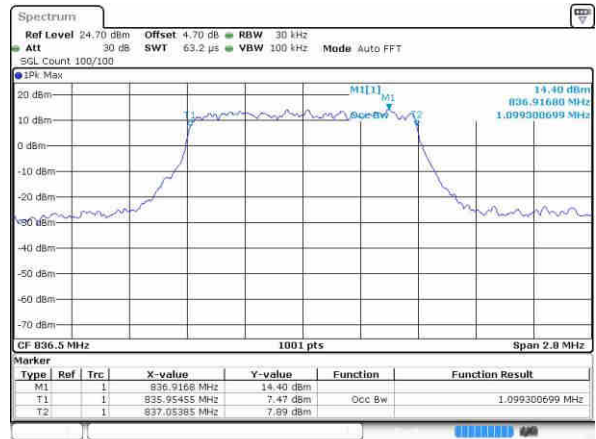
## Lowest Channel / 1.4MHz / 16QAM



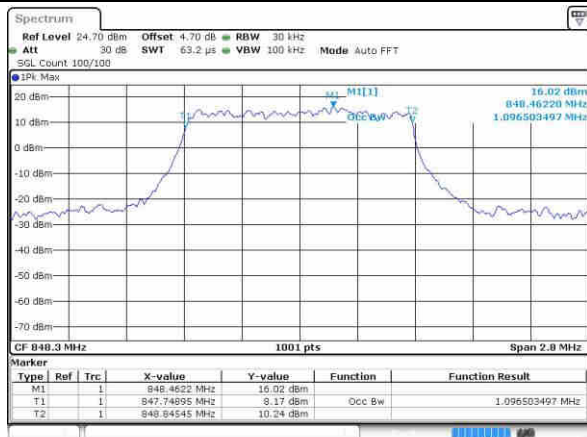
## Middle Channel / 1.4MHz / QPSK



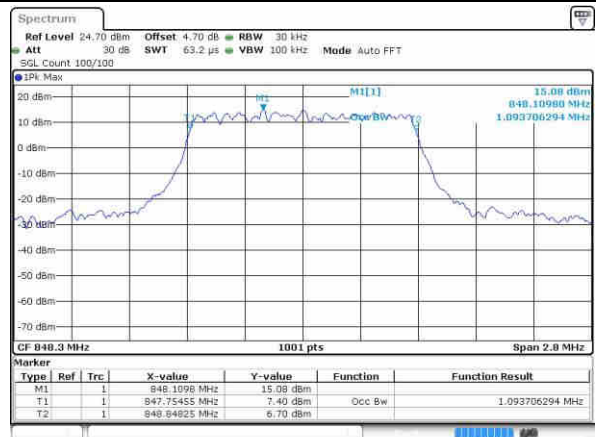
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



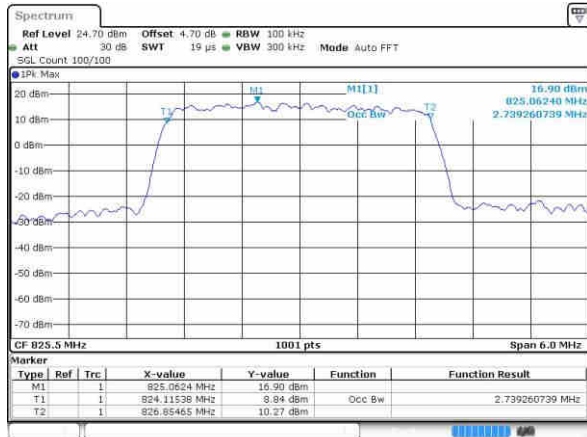
## Highest Channel / 1.4MHz / 16QAM



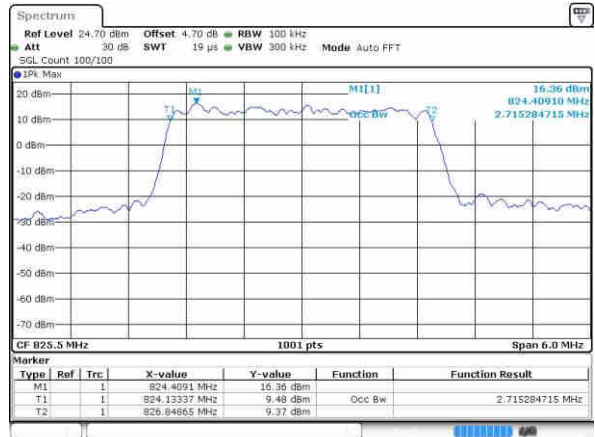


## LTE Band 5

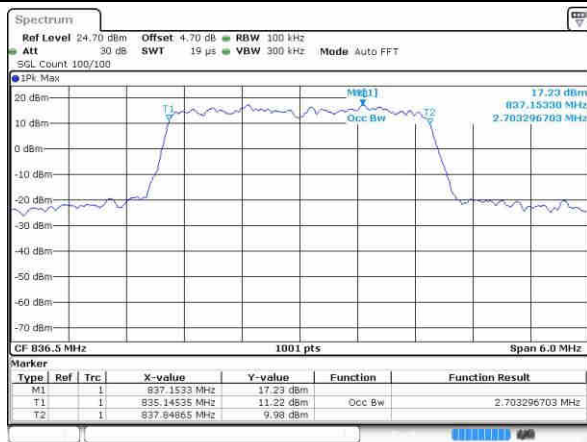
## Lowest Channel / 3MHz / QPSK



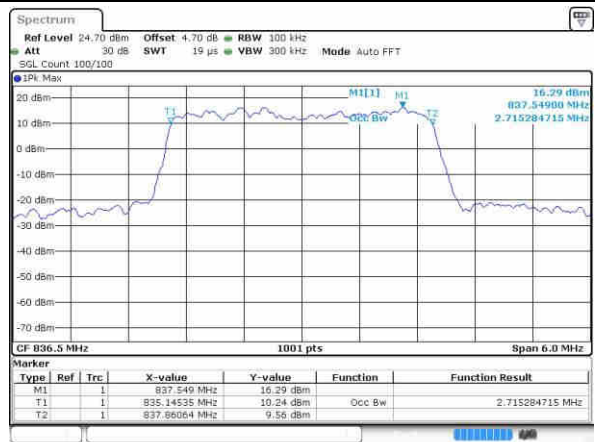
## Lowest Channel / 3MHz / 16QAM



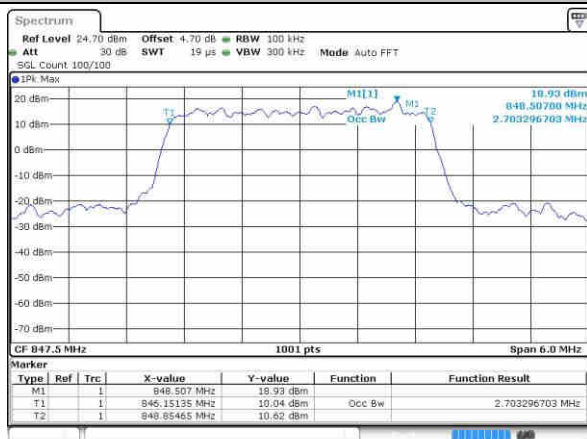
## Middle Channel / 3MHz / QPSK



## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



## Highest Channel / 3MHz / 16QAM

