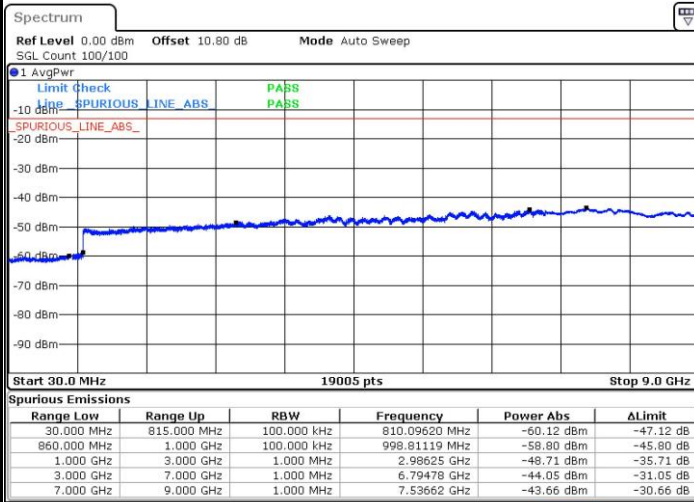




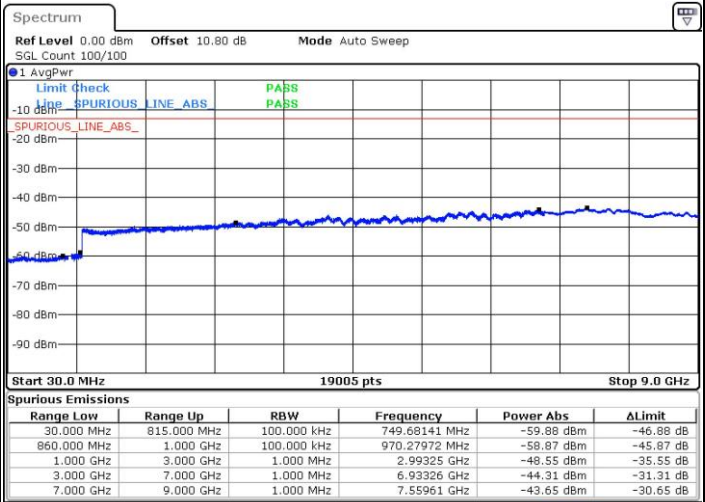
## LTE Band 5 / 1.4MHz

## Lowest Channel / 64QAM



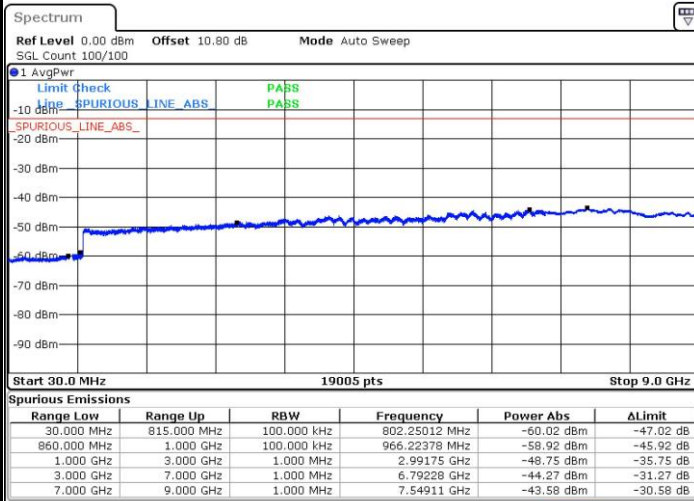
Date: 4.MAY.2018 17:13:39

## Middle Channel / 64QAM



Date: 4.MAY.2018 17:14:53

## Highest Channel / 64QAM

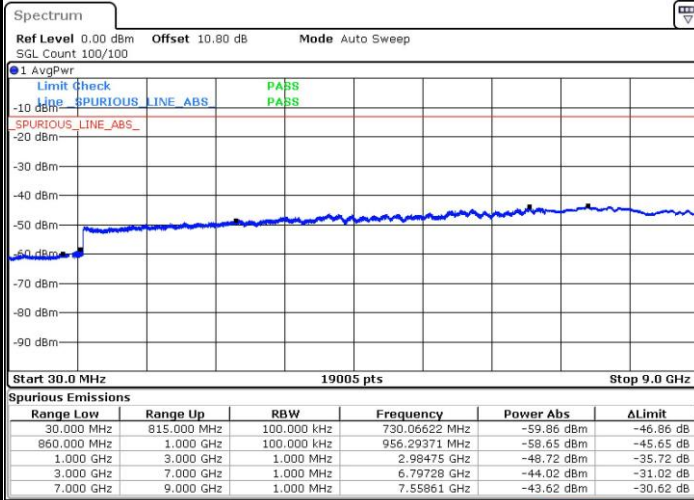


Date: 4.MAY.2018 17:19:26



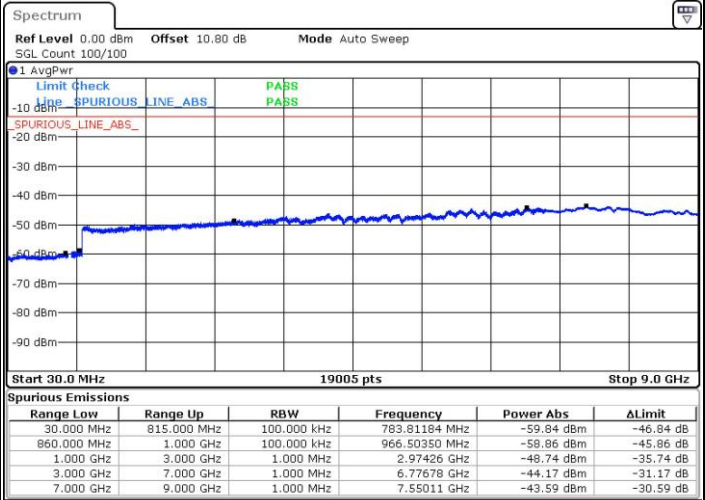
## LTE Band 5 / 3MHz

## Lowest Channel / 64QAM



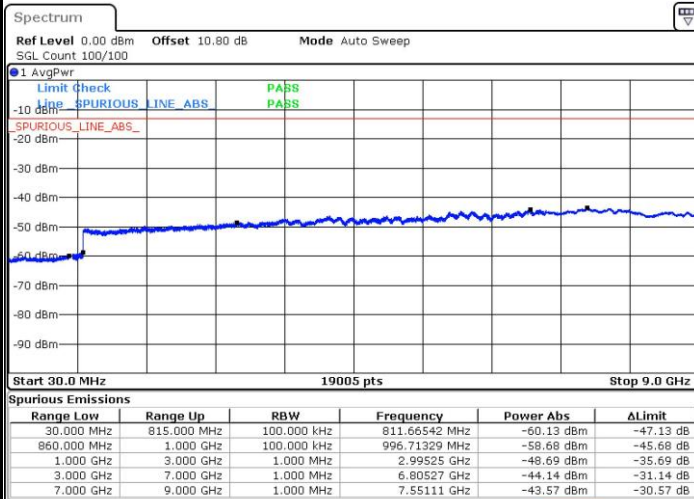
Date: 4 MAY 2018 16:42:35

## Middle Channel / 64QAM



Date: 4 MAY 2018 16:43:50

## Highest Channel / 64QAM

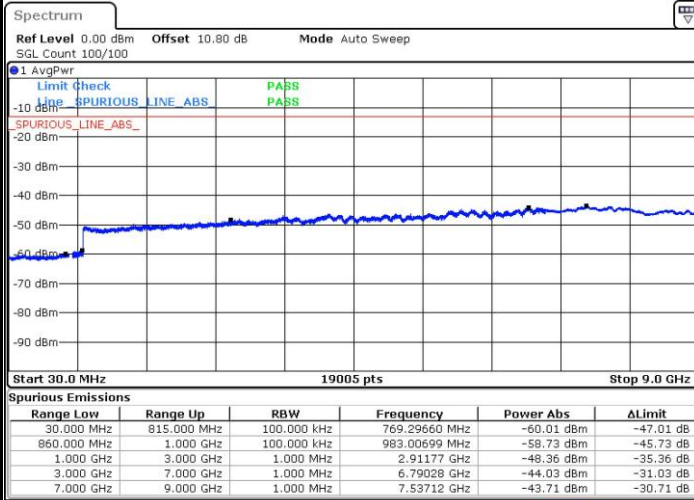


Date: 4 MAY 2018 16:48:24



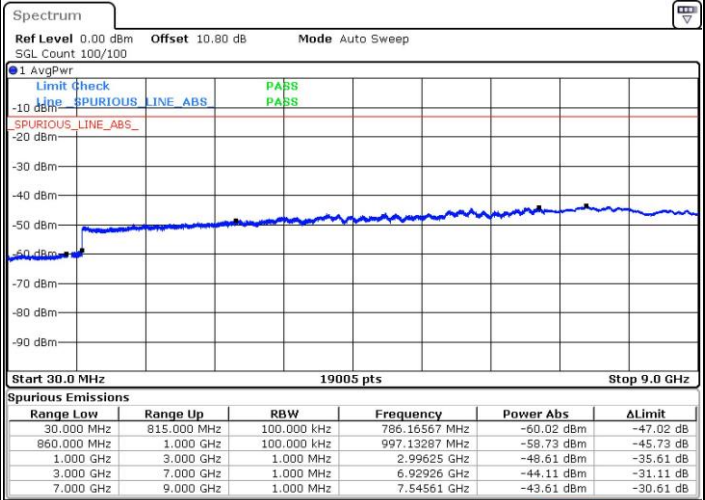
## LTE Band 5 / 5MHz

## Lowest Channel / 64QAM



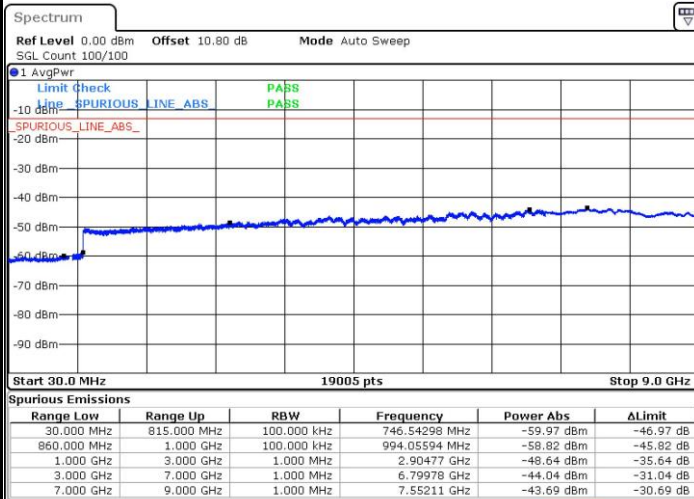
Date: 4 MAY 2018 16:52:58

## Middle Channel / 64QAM



Date: 4 MAY 2018 16:54:12

## Highest Channel / 64QAM

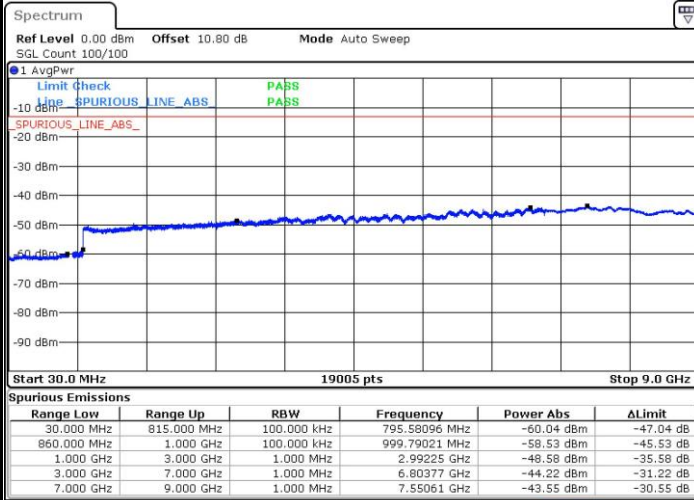


Date: 4 MAY 2018 16:58:45



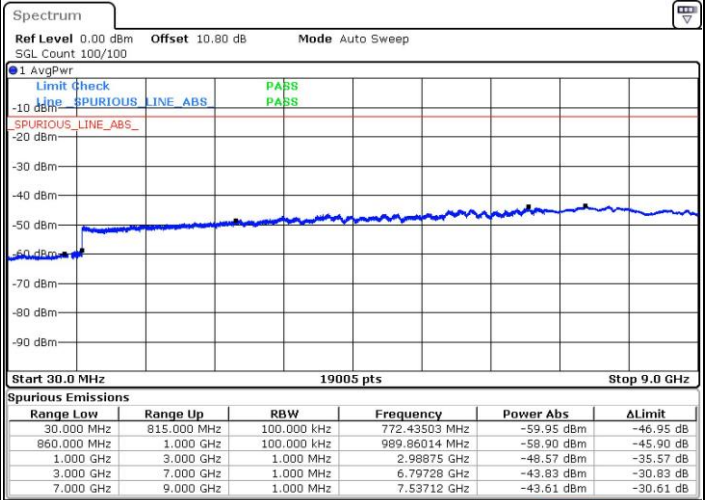
## LTE Band 5 / 10MHz

## Lowest Channel / 64QAM



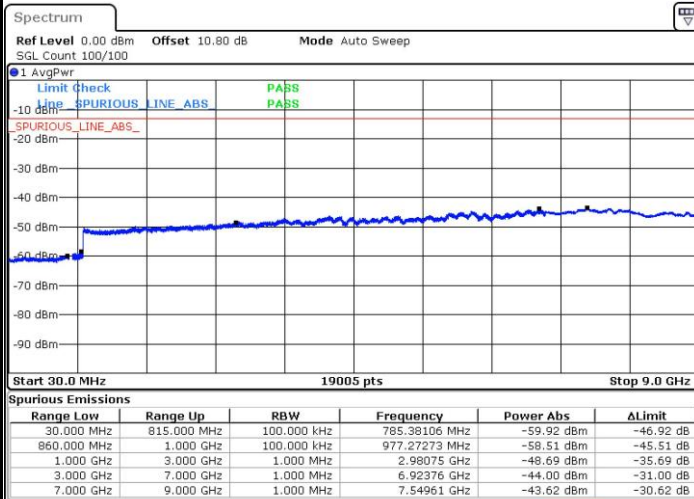
Date: 4 MAY 2018 17:03:18

## Middle Channel / 64QAM



Date: 4 MAY 2018 17:04:33

## Highest Channel / 64QAM



Date: 4 MAY 2018 17:09:06

## 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    | 0.0063                             | PASS   |
| 40               | Normal Voltage    | 0.0056                             |        |
| 30               | Normal Voltage    | 0.0010                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0024                             |        |
| 0                | Normal Voltage    | 0.0039                             |        |
| -10              | Normal Voltage    | 0.0010                             |        |
| -20              | Normal Voltage    | 0.0019                             |        |
| -30              | Normal Voltage    | 0.0020                             |        |
| 20               | Maximum Voltage   | 0.0008                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0002                             |        |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## LTE Band 7

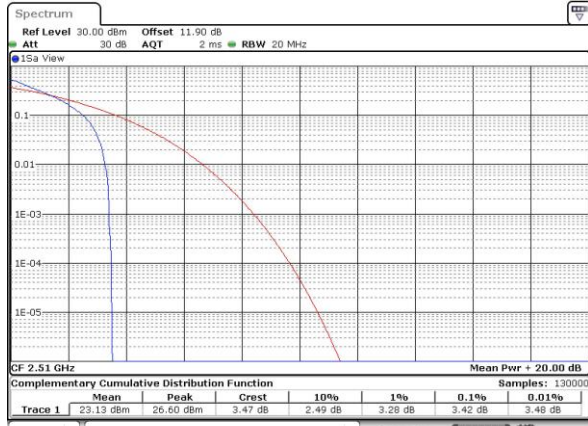
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.42               | 4.58    | 4.17  | 5.65    | PASS        |
| Middle CH  | 3.62               | 4.41    | 4.55  | 5.45    |             |
| Highest CH | 3.25               | 3.94    | 4.29  | 4.96    |             |
| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 5.07               | 6.23    | -     | -       | PASS        |
| Middle CH  | 5.19               | 5.77    | -     | -       |             |
| Highest CH | 5.45               | 5.39    | -     | -       |             |

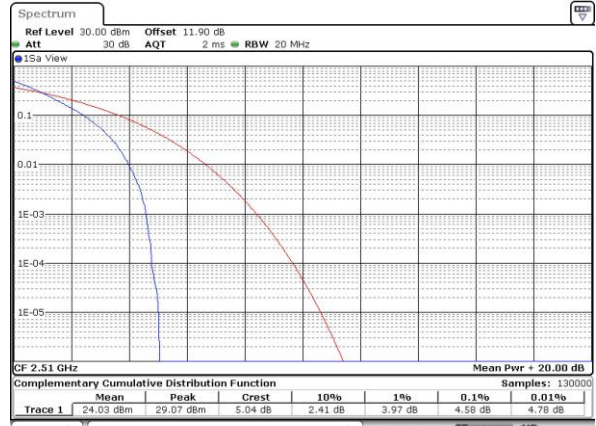


## LTE Band 7 / 20MHz / QPSK

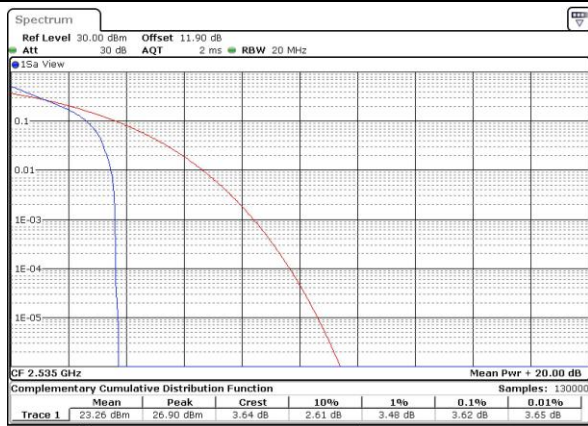
## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



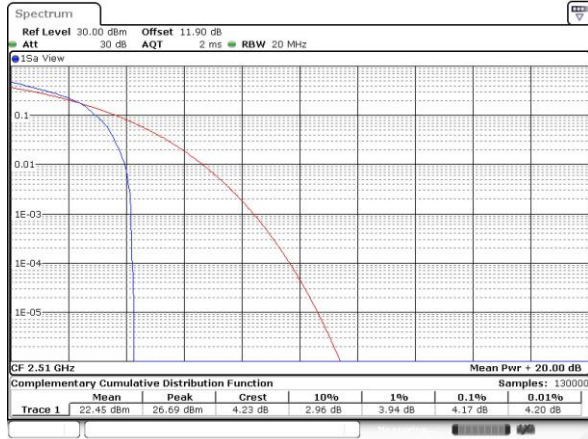
## Highest Channel / Full RB



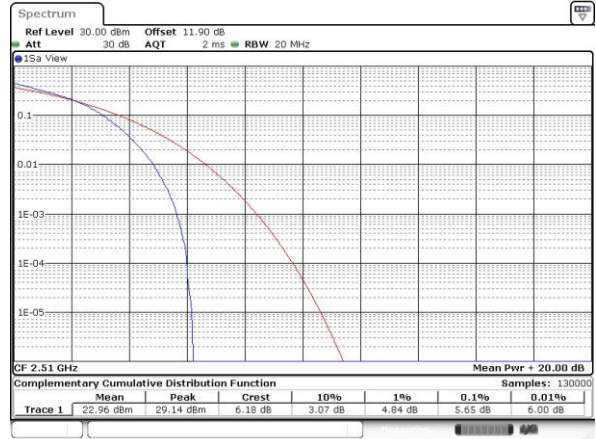


## LTE Band 7 / 20MHz / 16QAM

## Lowest Channel / 1RB



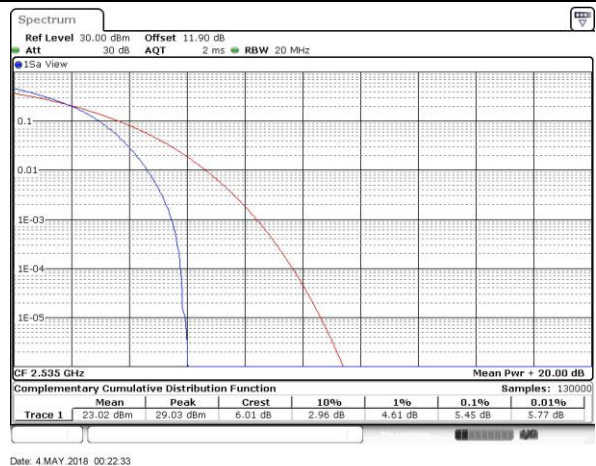
## Lowest Channel / Full RB



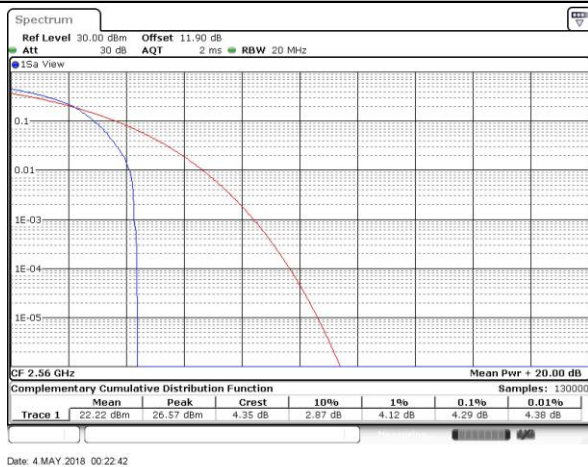
## Middle Channel / 1RB



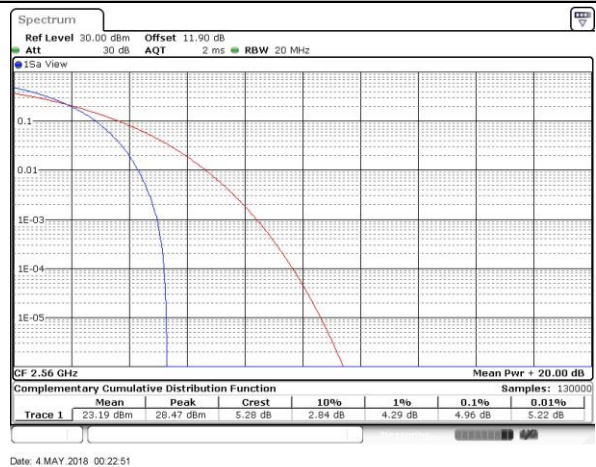
## Middle Channel / Full RB



## Highest Channel / 1RB



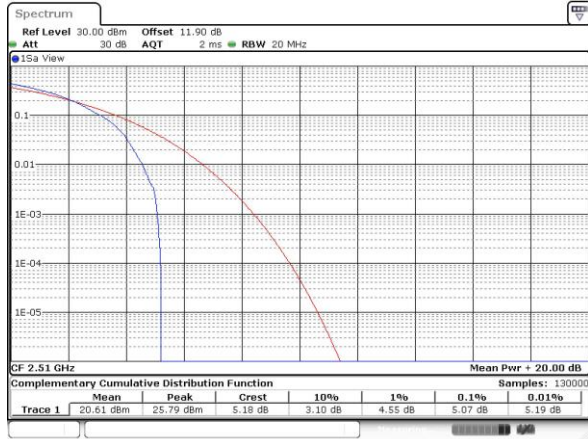
## Highest Channel / Full RB



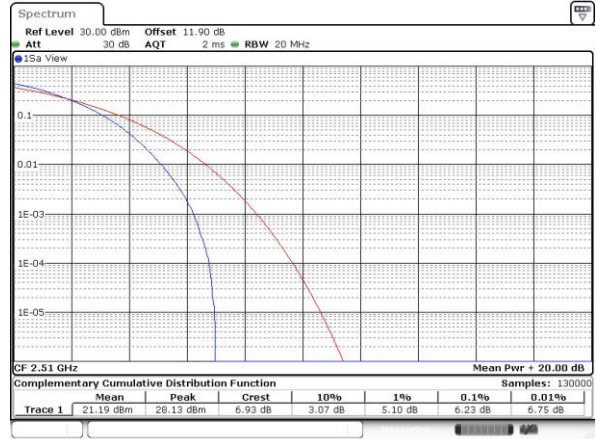


## LTE Band 7 / 20MHz / 64QAM

## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



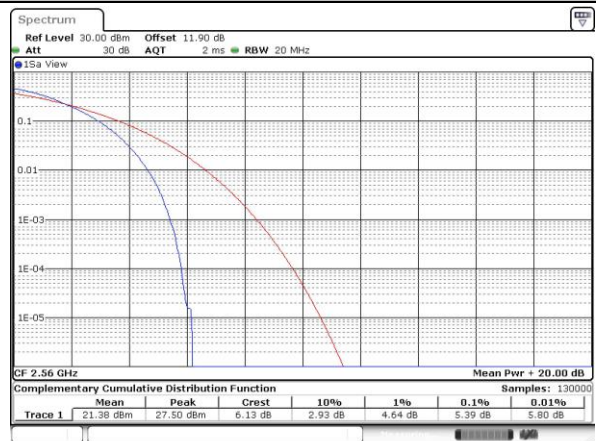
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



**26dB Bandwidth**

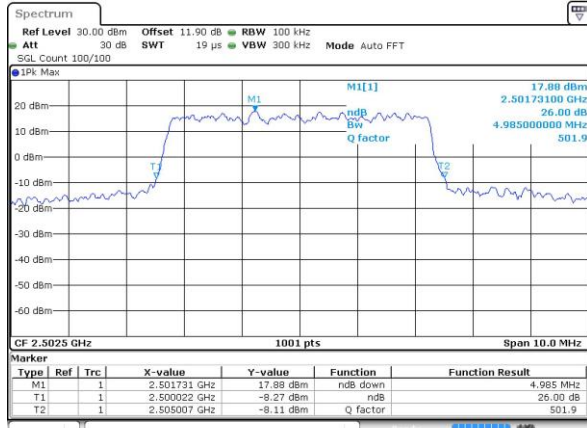
| Mode       | LTE Band 7 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 4.99 | 4.87  | 9.67  | 9.63  | 14.24 | 14.12 | 20.22 | 20.30 |
| Middle CH  | -                         | -     | -    | -     | 4.89 | 5.02  | 9.87  | 10.09 | 14.30 | 14.42 | 20.30 | 20.26 |
| Highest CH | -                         | -     | -    | -     | 5.02 | 4.88  | 10.01 | 9.91  | 14.69 | 14.42 | 20.34 | 20.14 |

| Mode       | LTE Band 7 : 26dB BW(MHz) |   |       |   |       |   |       |   |       |   |       |   |
|------------|---------------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| BW         | 1.4MHz                    |   | 3MHz  |   | 5MHz  |   | 10MHz |   | 15MHz |   | 20MHz |   |
| Mod.       | 64QAM                     |   | 64QAM |   | 64QAM |   | 64QAM |   | 64QAM |   | 64QAM |   |
| Lowest CH  | -                         | - | -     | - | 4.84  | - | 9.81  | - | 14.63 | - | 20.18 | - |
| Middle CH  | -                         | - | -     | - | 4.93  | - | 9.81  | - | 14.48 | - | 20.22 | - |
| Highest CH | -                         | - | -     | - | 4.90  | - | 9.97  | - | 14.42 | - | 20.14 | - |



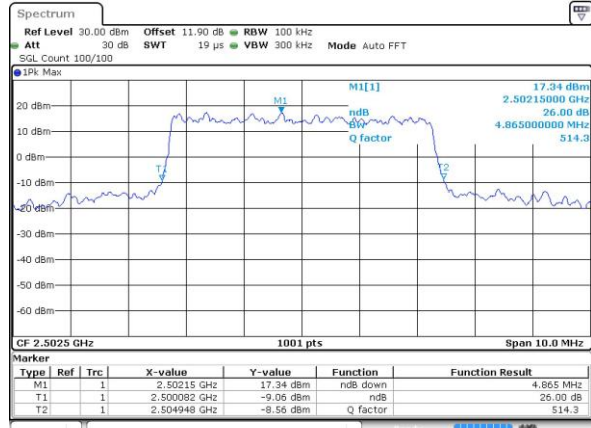
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



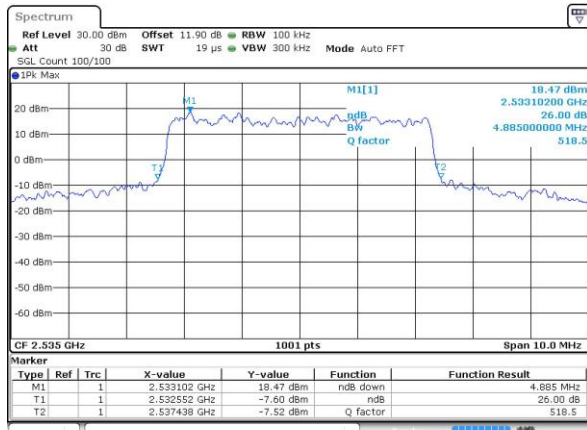
Date: 3 MAY 2018 23:08:25

## Lowest Channel / 5MHz / 16QAM



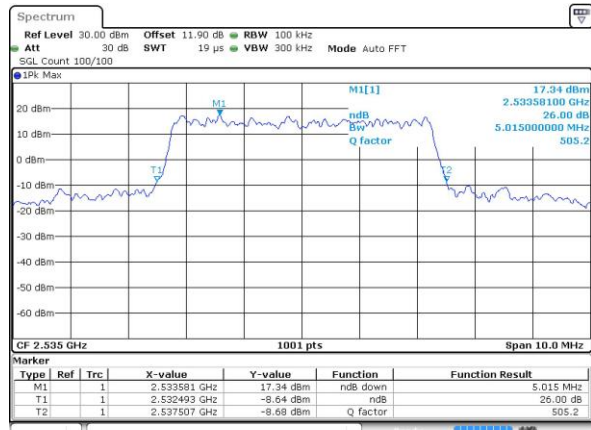
Date: 3 MAY 2018 23:08:35

## Middle Channel / 5MHz / QPSK



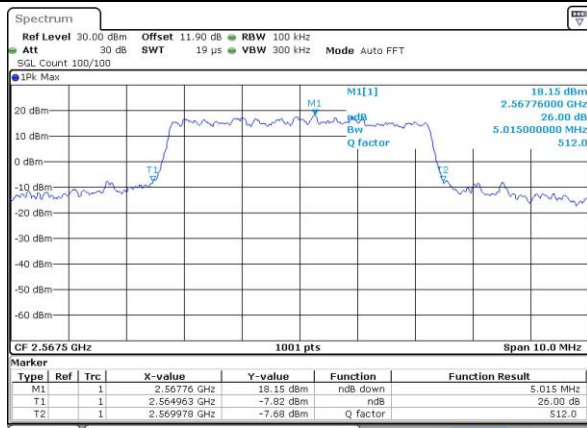
Date: 3 MAY 2018 23:15:33

## Middle Channel / 5MHz / 16QAM



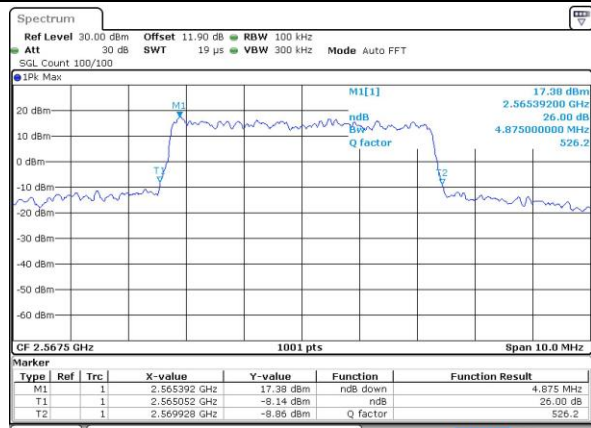
Date: 3 MAY 2018 23:15:44

## Highest Channel / 5MHz / QPSK



Date: 3 MAY 2018 23:18:03

## Highest Channel / 5MHz / 16QAM

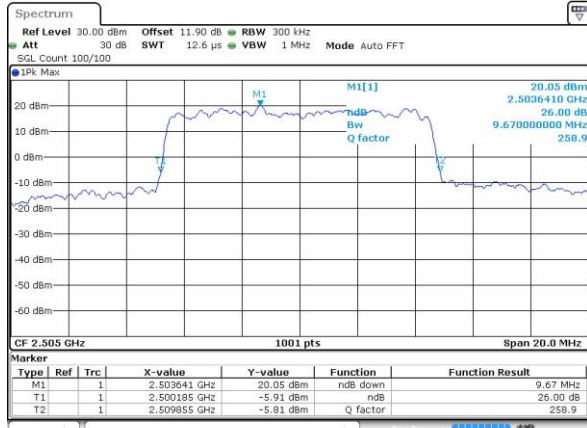


Date: 3 MAY 2018 23:18:13

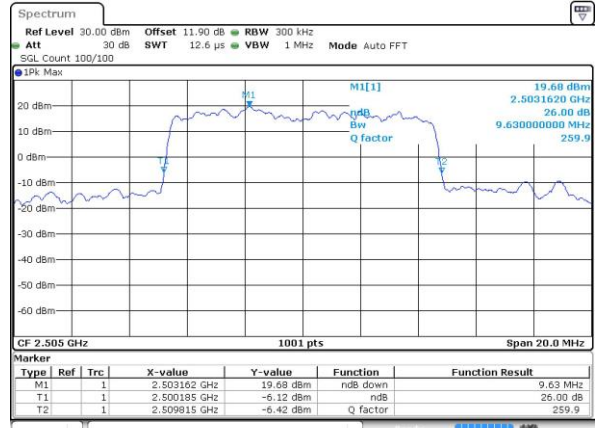


## LTE Band 7

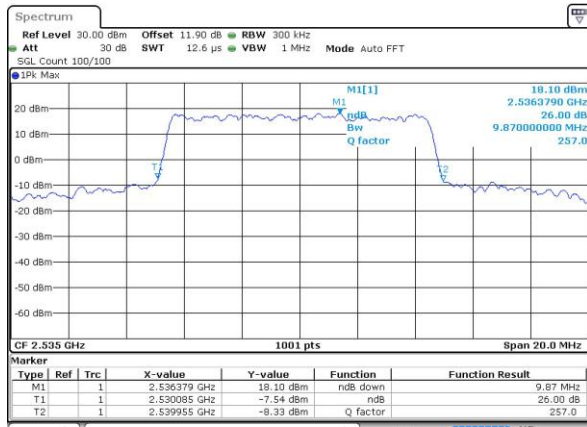
## Lowest Channel / 10MHz / QPSK



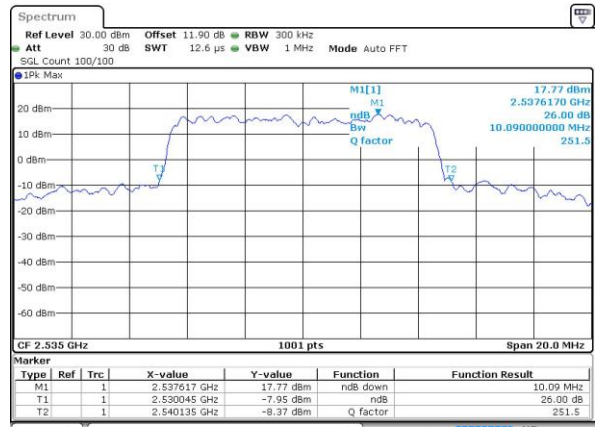
## Lowest Channel / 10MHz / 16QAM



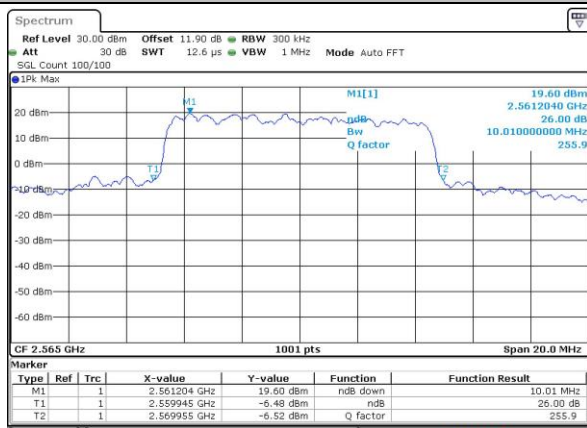
## Middle Channel / 10MHz / QPSK



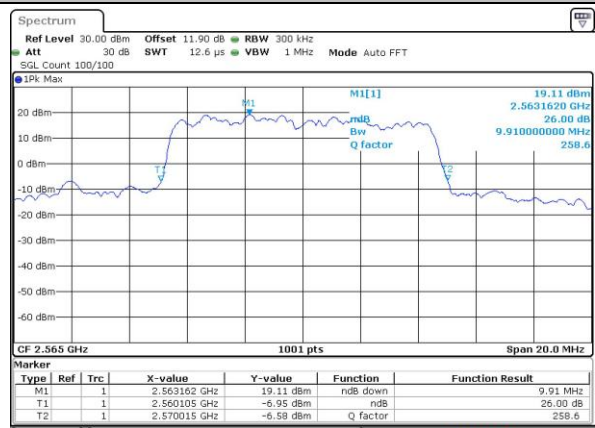
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



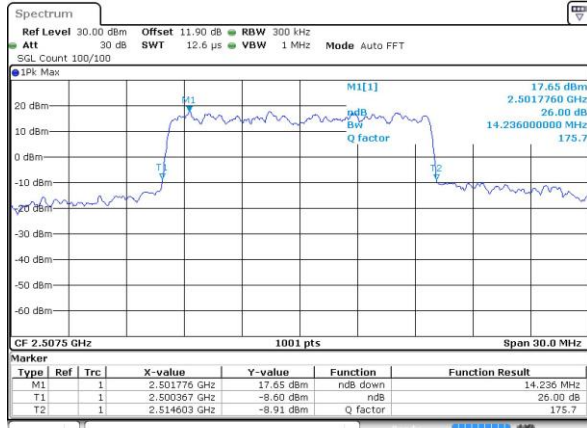
## Highest Channel / 10MHz / 16QAM





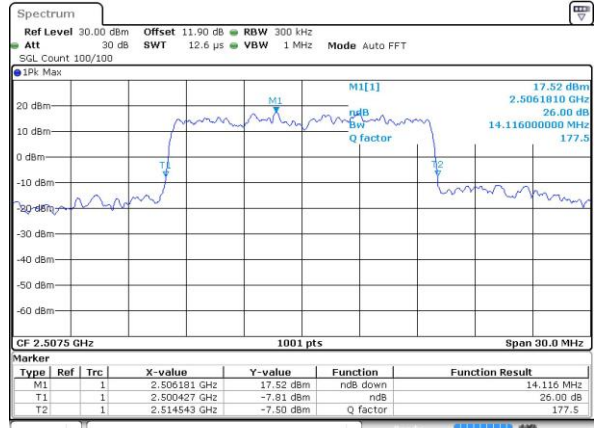
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



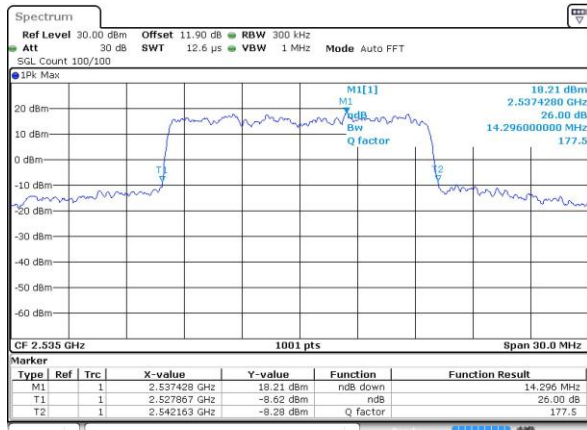
Date: 3 MAY 2018 23:41:58

## Lowest Channel / 15MHz / 16QAM



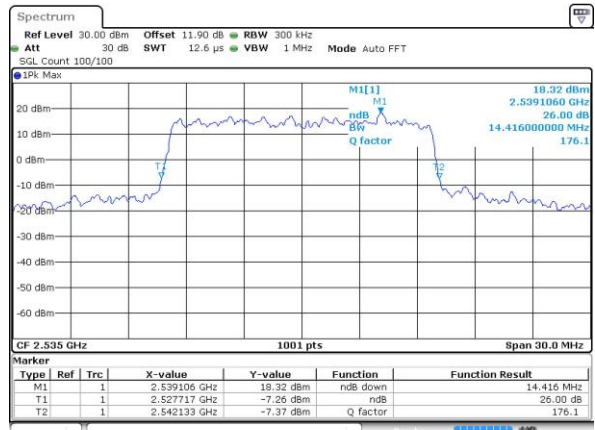
Date: 3 MAY 2018 23:42:09

## Middle Channel / 15MHz / QPSK



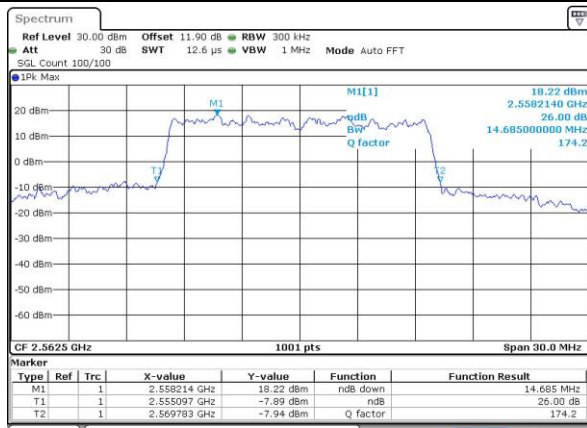
Date: 3 MAY 2018 23:49:07

## Middle Channel / 15MHz / 16QAM



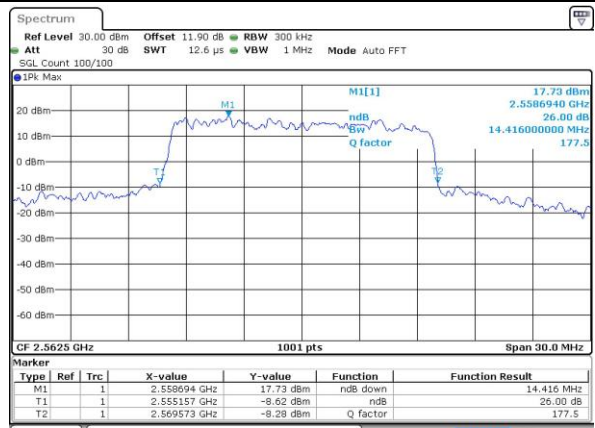
Date: 3 MAY 2018 23:49:17

## Highest Channel / 15MHz / QPSK



Date: 3 MAY 2018 23:51:36

## Highest Channel / 15MHz / 16QAM

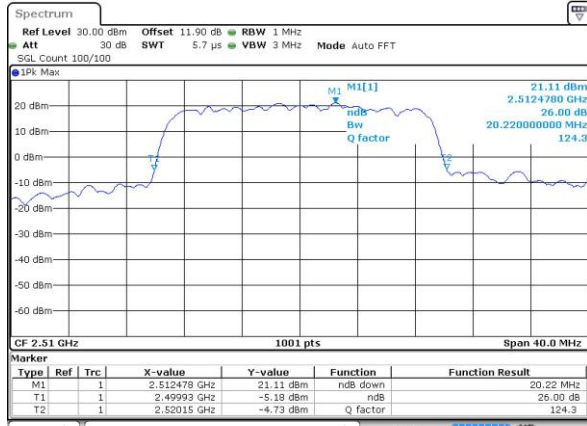


Date: 3 MAY 2018 23:51:47

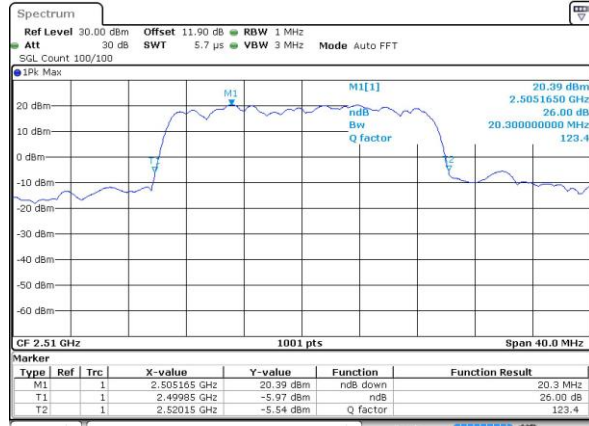


## LTE Band 7

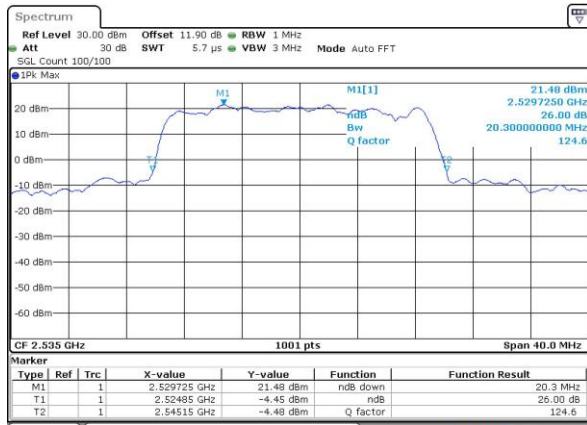
## Lowest Channel / 20MHz / QPSK



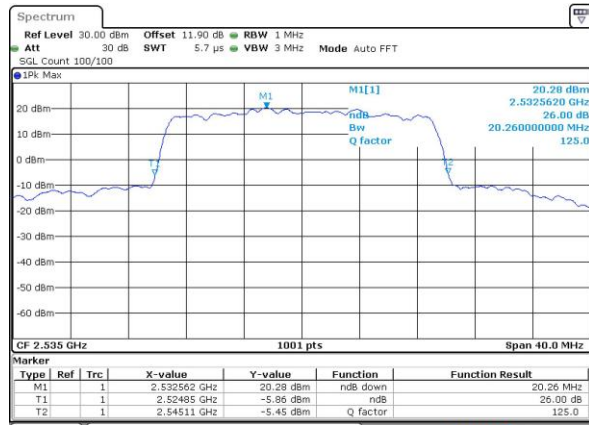
## Lowest Channel / 20MHz / 16QAM



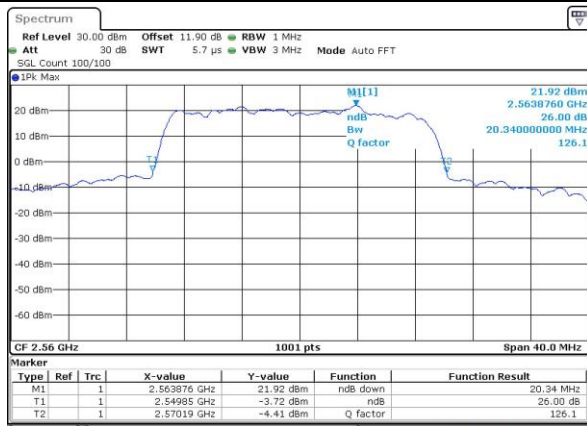
## Middle Channel / 20MHz / QPSK



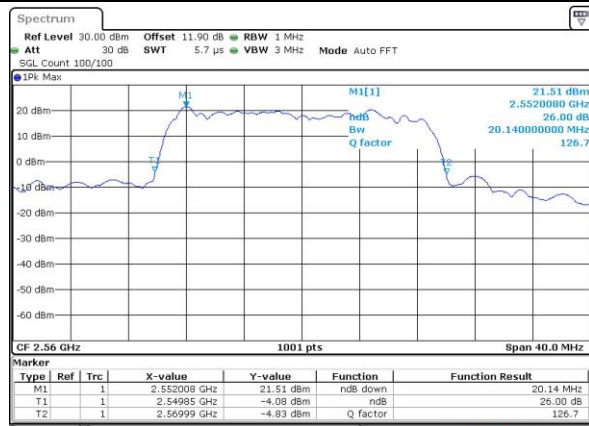
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



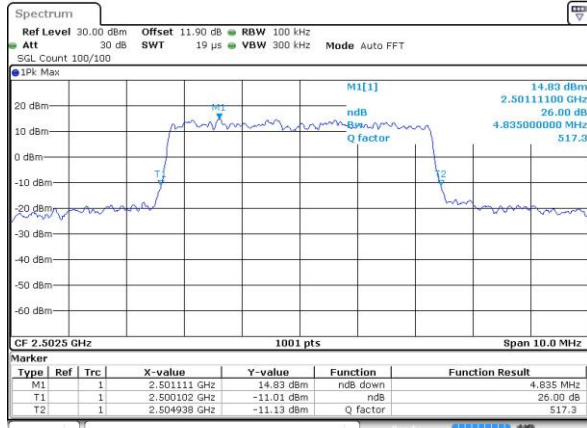
## Highest Channel / 20MHz / 16QAM



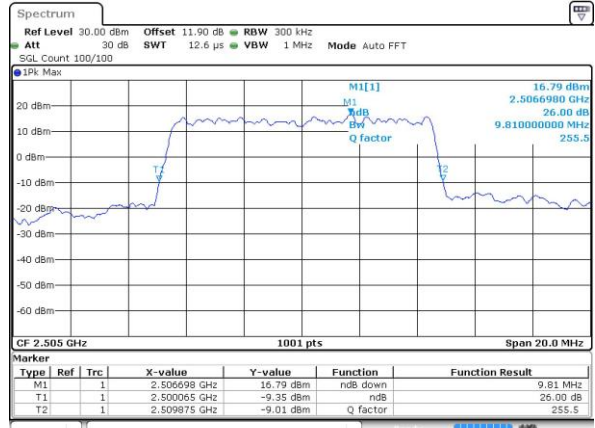


## LTE Band 7

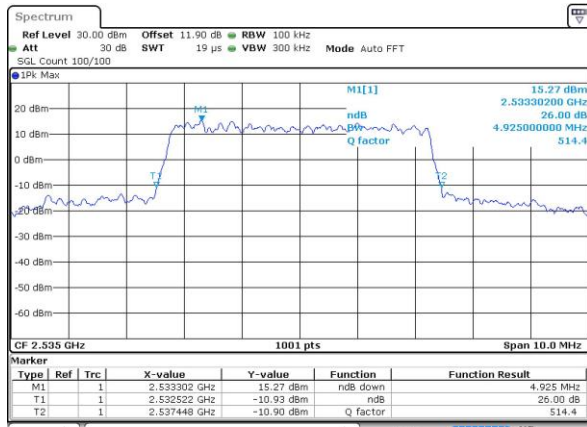
## Lowest Channel / 5MHz / 64QAM



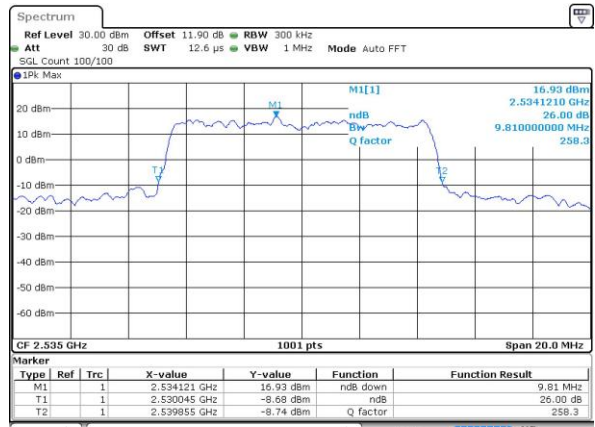
## Lowest Channel / 10MHz / 64QAM



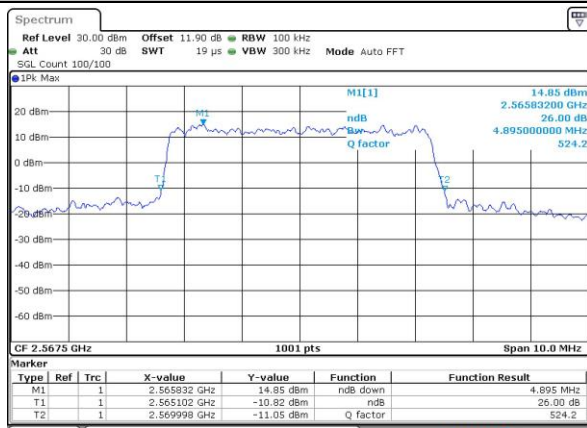
## Middle Channel / 5MHz / 64QAM



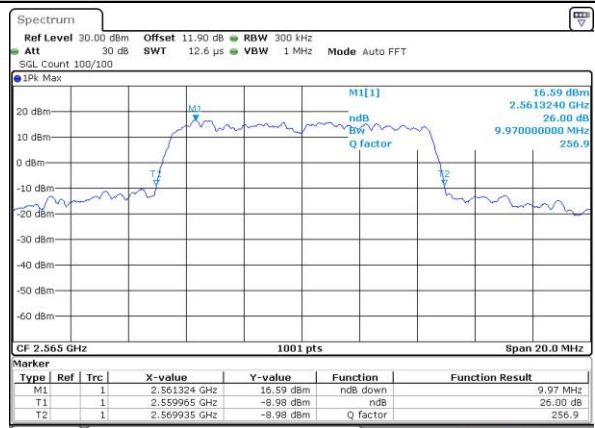
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



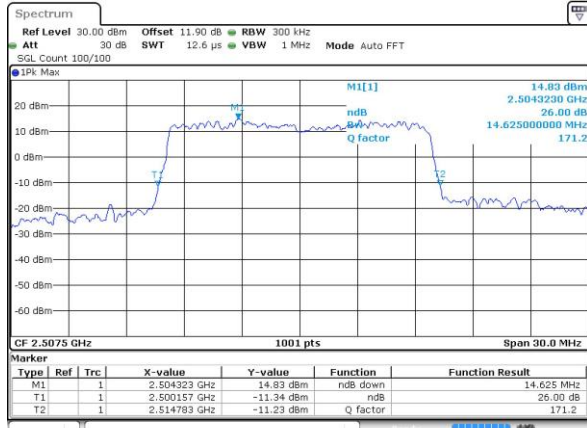
## Highest Channel / 10MHz / 64QAM





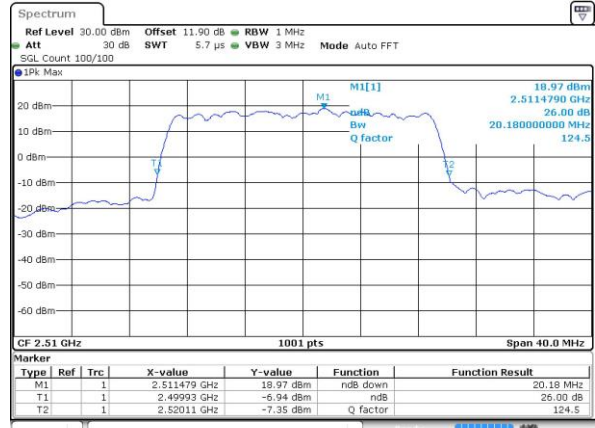
## LTE Band 7

## Lowest Channel / 15MHz / 64QAM



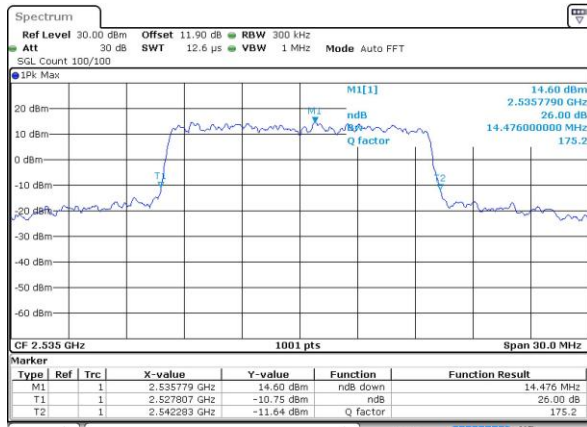
Date: 4 MAY 2018 14:24:47

## Lowest Channel / 20MHz / 64QAM



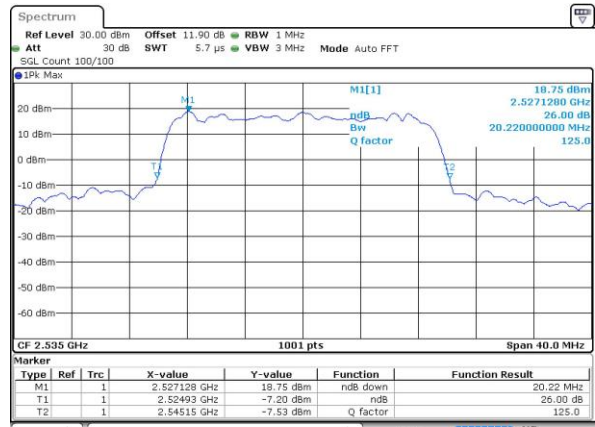
Date: 4 MAY 2018 14:33:08

## Middle Channel / 15MHz / 64QAM



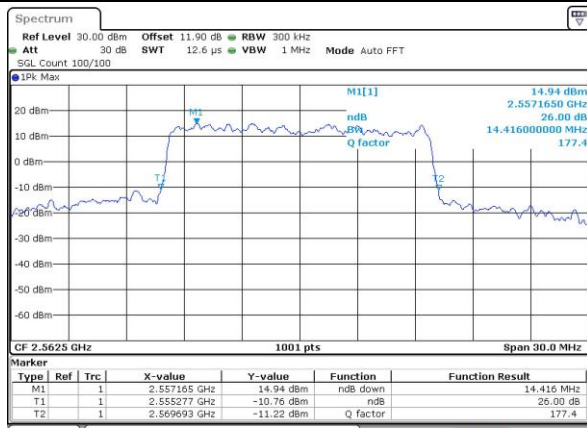
Date: 4 MAY 2018 14:28:20

## Middle Channel / 20MHz / 64QAM



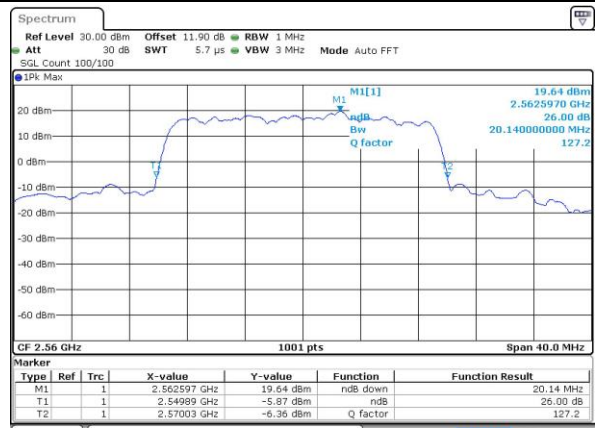
Date: 4 MAY 2018 14:36:42

## Highest Channel / 15MHz / 64QAM



Date: 4 MAY 2018 14:29:35

## Highest Channel / 20MHz / 64QAM



Date: 4 MAY 2018 14:37:56

**Occupied Bandwidth**

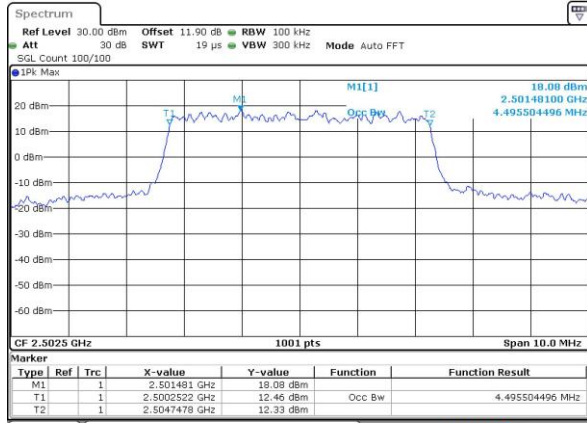
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.5  | 4.51  | 9.05  | 9.05  | 13.49 | 13.46 | 18.34 | 18.66 |
| Middle CH  | -                        | -     | -    | -     | 4.5  | 4.53  | 9.01  | 9.07  | 13.46 | 13.52 | 18.42 | 18.42 |
| Highest CH | -                        | -     | -    | -     | 4.52 | 4.51  | 9.09  | 9.01  | 13.49 | 13.46 | 18.42 | 18.5  |

| Mode       | LTE Band 7 : 99%OBW(MHz) |   |       |   |       |   |       |   |       |   |       |   |
|------------|--------------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| BW         | 1.4MHz                   |   | 3MHz  |   | 5MHz  |   | 10MHz |   | 15MHz |   | 20MHz |   |
| Mod.       | 64QAM                    |   | 64QAM |   | 64QAM |   | 64QAM |   | 64QAM |   | 64QAM |   |
| Lowest CH  | -                        | - | -     | - | 4.50  | - | 9.03  | - | 13.49 | - | 18.42 | - |
| Middle CH  | -                        | - | -     | - | 4.52  | - | 9.03  | - | 13.46 | - | 18.34 | - |
| Highest CH | -                        | - | -     | - | 4.50  | - | 9.07  | - | 13.37 | - | 18.26 | - |



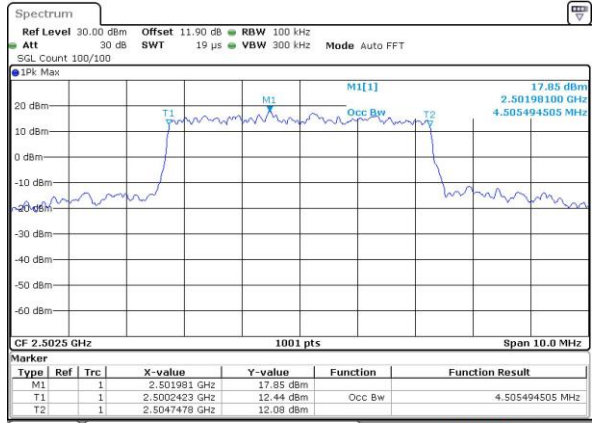
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



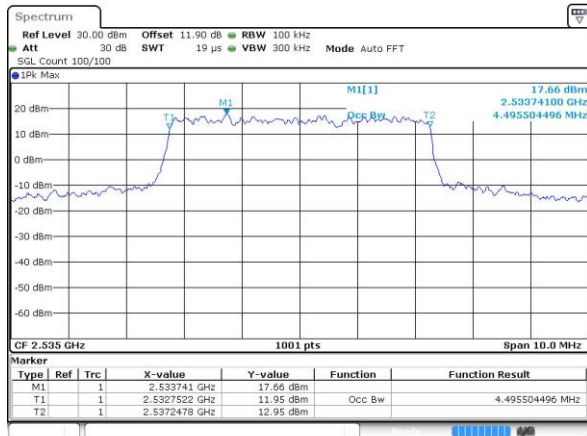
Date: 3 MAY 2018 23:08:04

## Lowest Channel / 5MHz / 16QAM



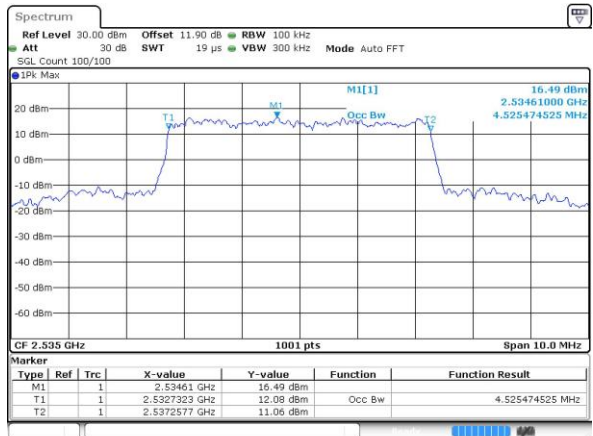
Date: 3 MAY 2018 23:08:14

## Middle Channel / 5MHz / QPSK



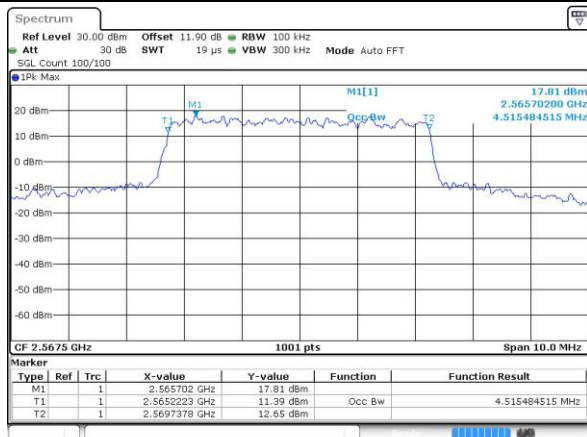
Date: 3 MAY 2018 23:15:12

## Middle Channel / 5MHz / 16QAM



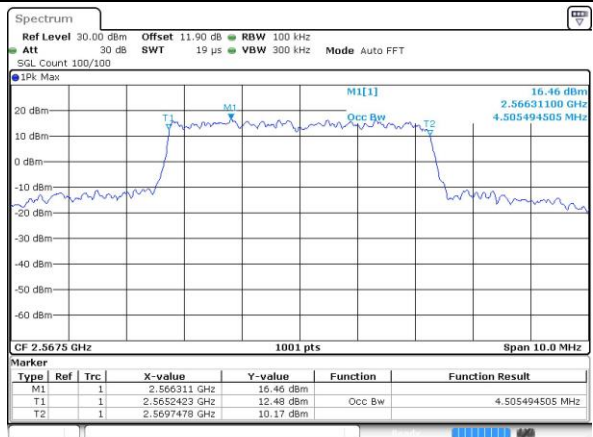
Date: 3 MAY 2018 23:15:23

## Highest Channel / 5MHz / QPSK



Date: 3 MAY 2018 23:17:42

## Highest Channel / 5MHz / 16QAM

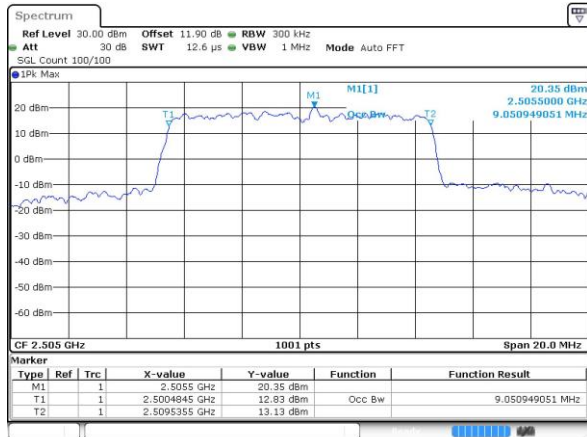


Date: 3 MAY 2018 23:17:52



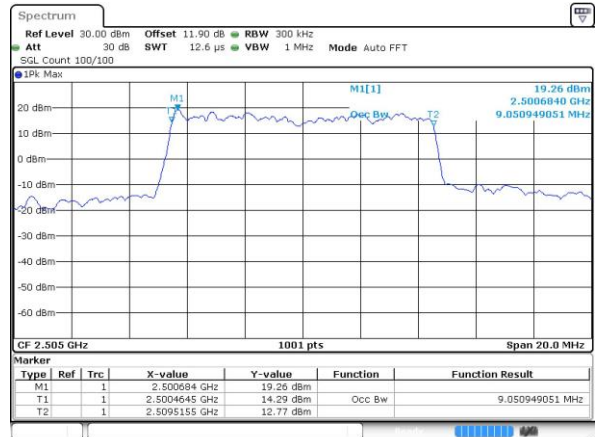
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



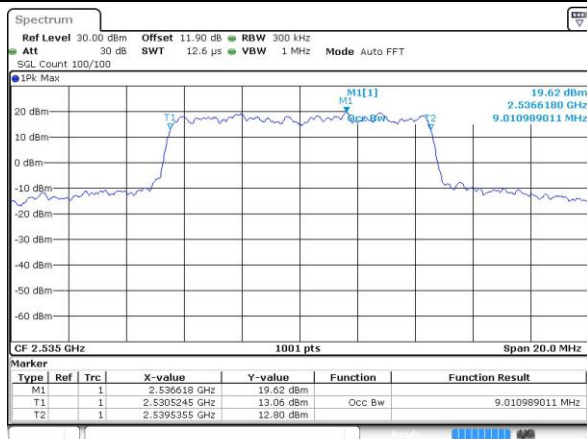
Date: 3 MAY 2018 23:24:51

## Lowest Channel / 10MHz / 16QAM



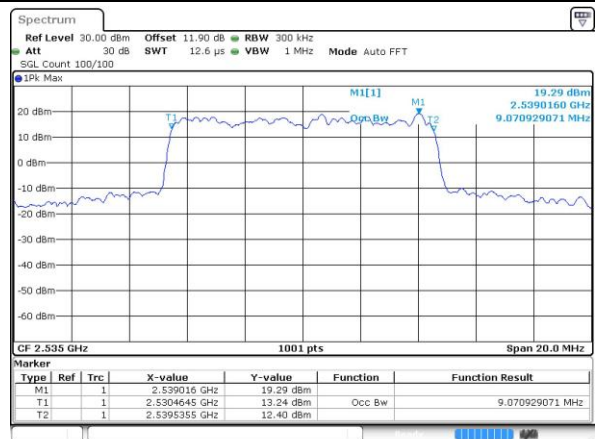
Date: 3 MAY 2018 23:25:01

## Middle Channel / 10MHz / QPSK



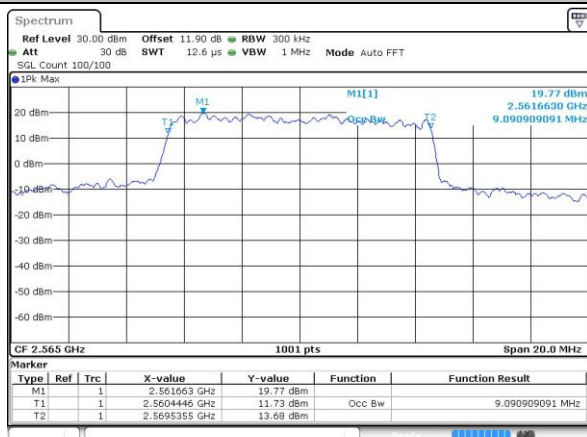
Date: 3 MAY 2018 23:31:59

## Middle Channel / 10MHz / 16QAM



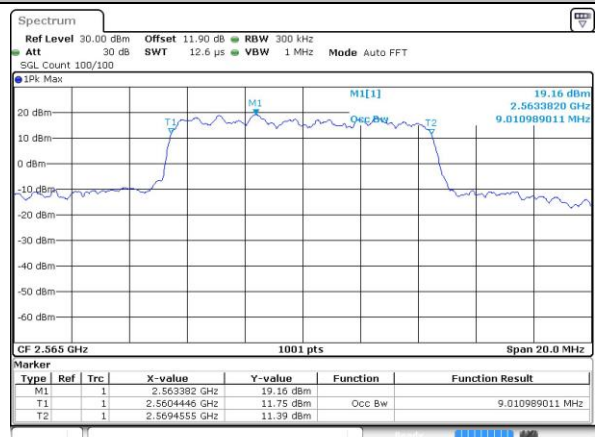
Date: 3 MAY 2018 23:32:10

## Highest Channel / 10MHz / QPSK



Date: 3 MAY 2018 23:34:29

## Highest Channel / 10MHz / 16QAM

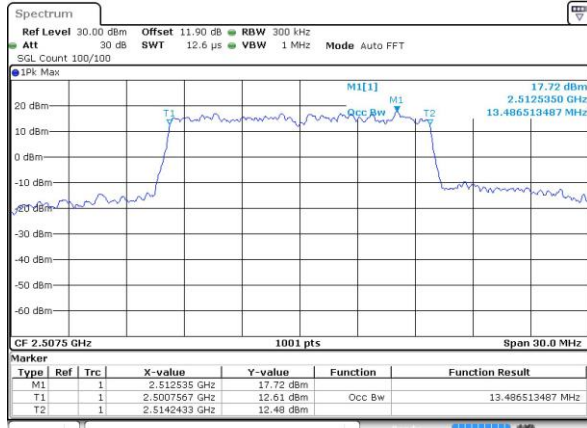


Date: 3 MAY 2018 23:34:39



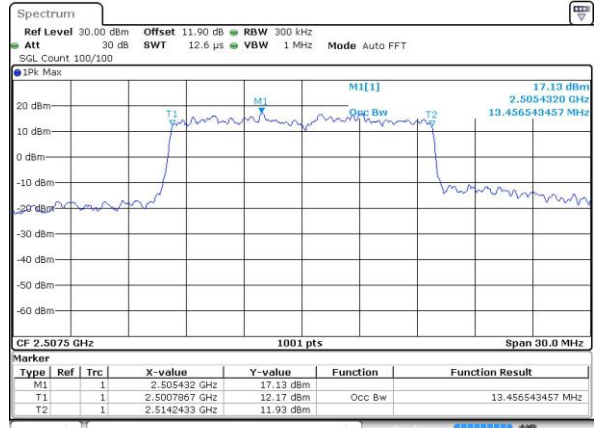
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



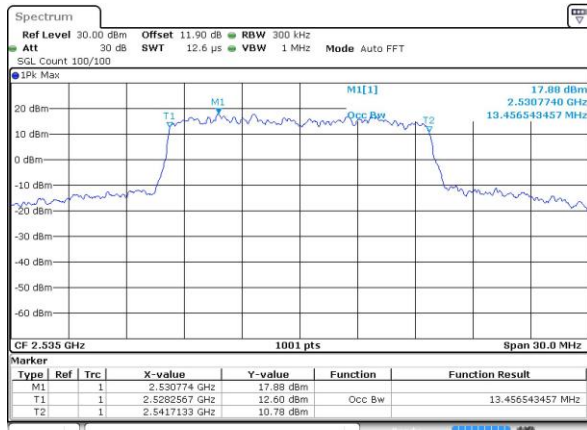
Date: 3 MAY 2018 23:41:37

## Lowest Channel / 15MHz / 16QAM



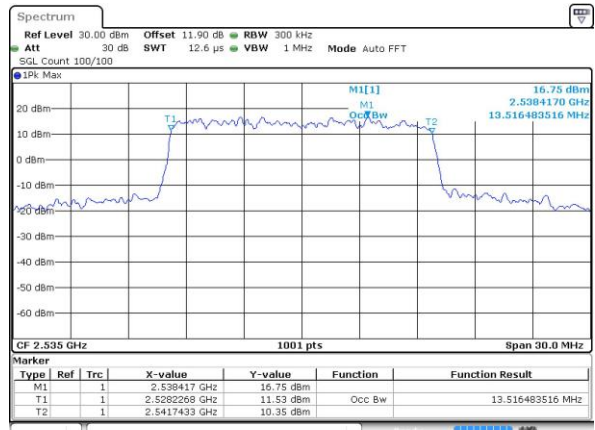
Date: 3 MAY 2018 23:41:48

## Middle Channel / 15MHz / QPSK



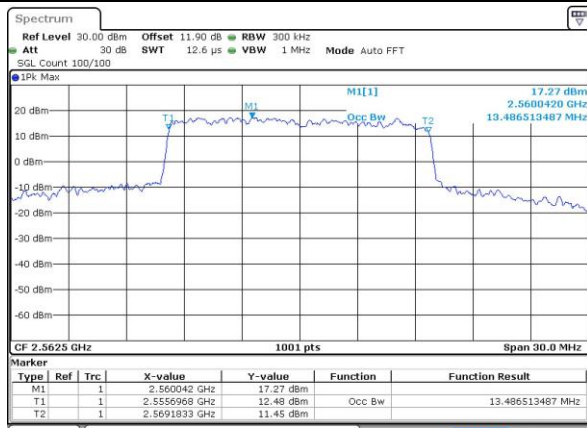
Date: 3 MAY 2018 23:48:46

## Middle Channel / 15MHz / 16QAM



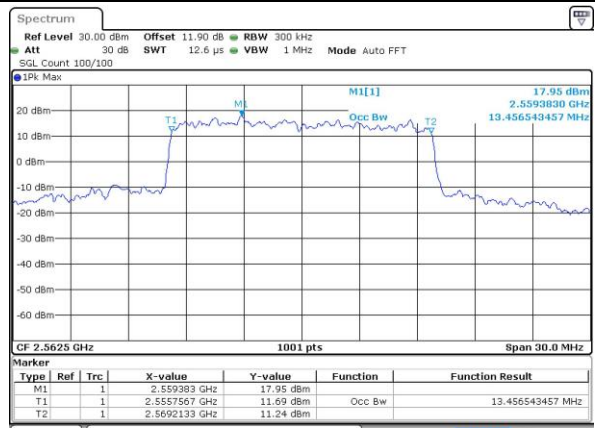
Date: 3 MAY 2018 23:48:56

## Highest Channel / 15MHz / QPSK



Date: 3 MAY 2018 23:51:15

## Highest Channel / 15MHz / 16QAM



Date: 3 MAY 2018 23:51:26

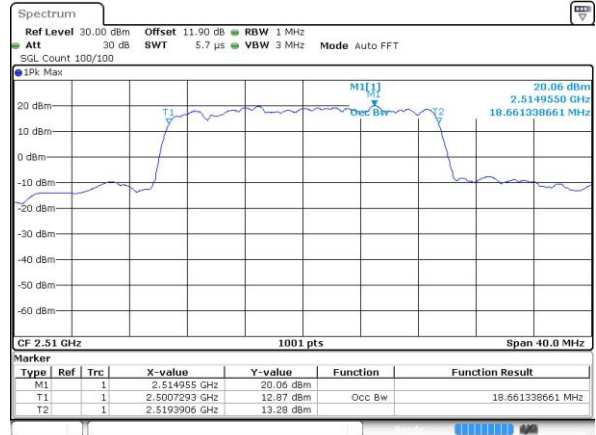


## LTE Band 7

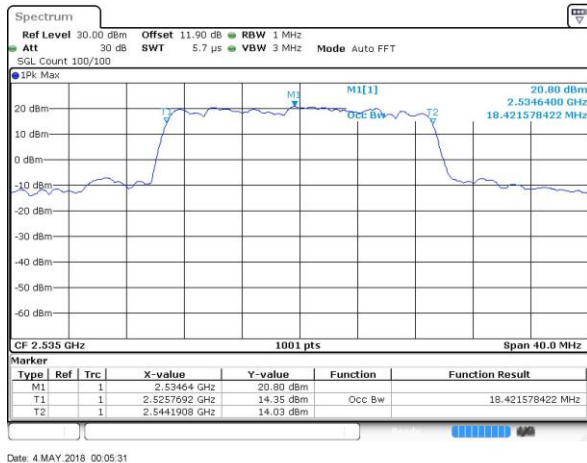
## Lowest Channel / 20MHz / QPSK



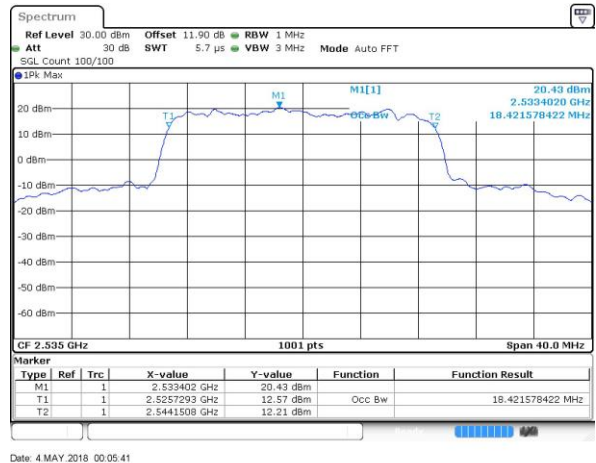
## Lowest Channel / 20MHz / 16QAM



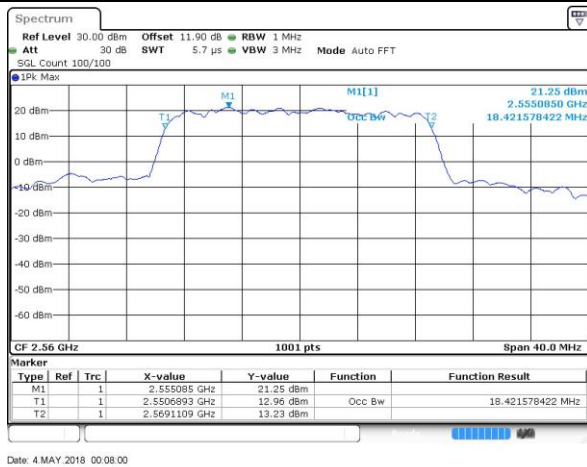
## Middle Channel / 20MHz / QPSK



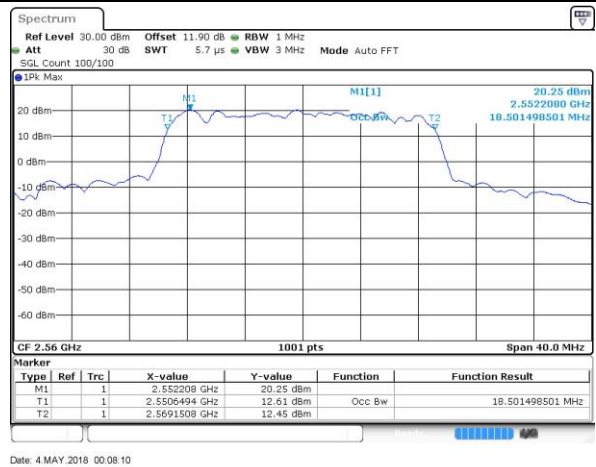
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



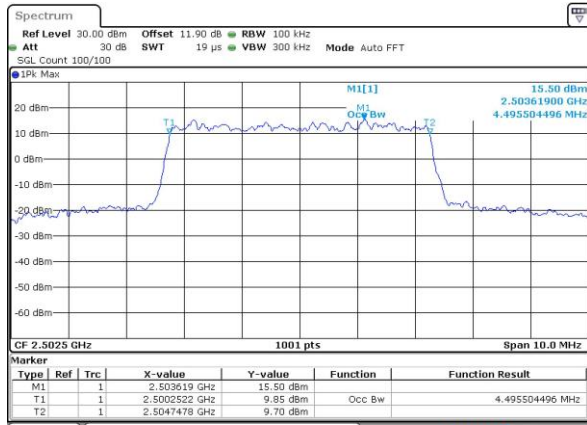
## Highest Channel / 20MHz / 16QAM





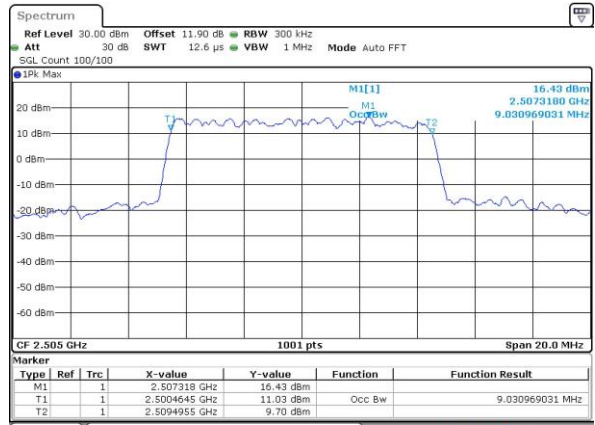
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



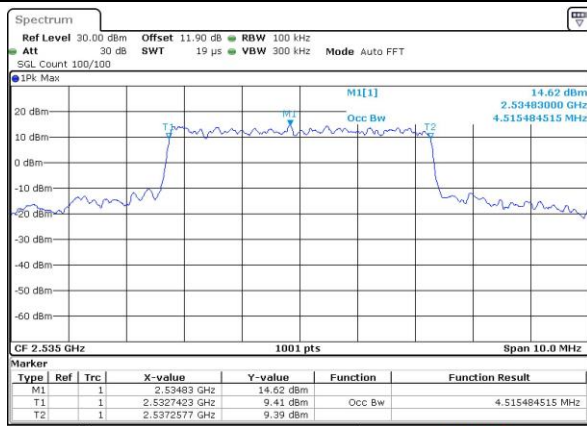
Date: 4 MAY 2018 14:07:48

## Lowest Channel / 10MHz / 64QAM



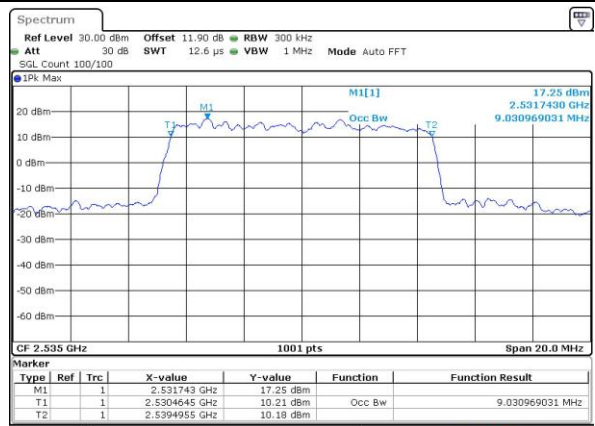
Date: 4 MAY 2018 14:16:13

## Middle Channel / 5MHz / 64QAM



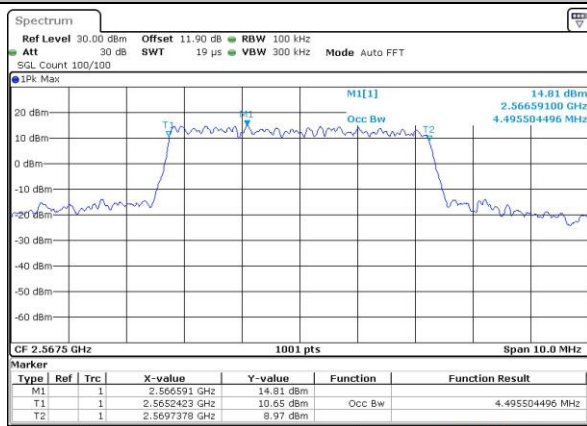
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## Middle Channel / 10MHz / 64QAM



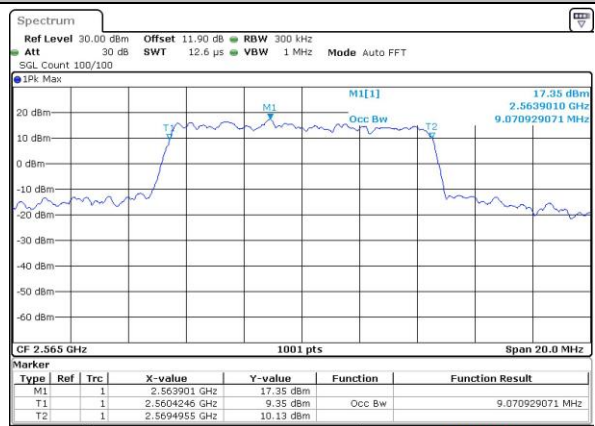
Date: 4 MAY 2018 14:19:47

## Highest Channel / 5MHz / 64QAM



Date: 4 MAY 2018 14:12:37

## Highest Channel / 10MHz / 64QAM



Date: 4 MAY 2018 14:21:02