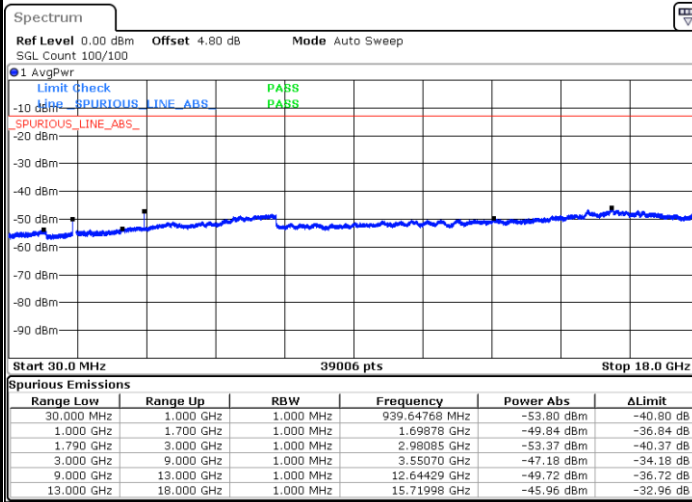




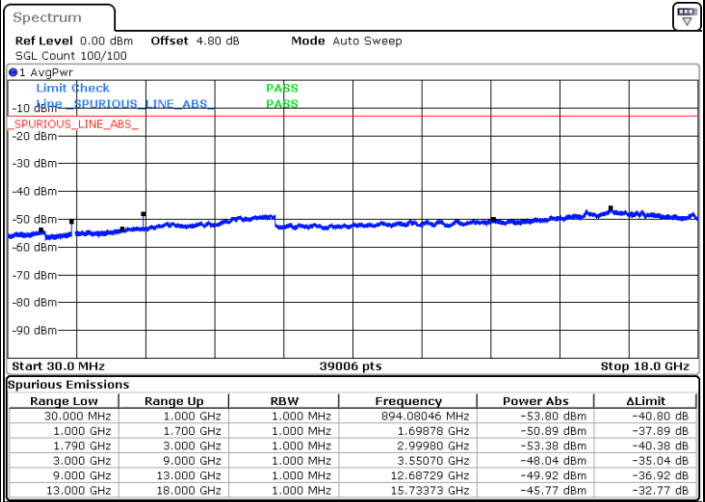
## LTE Band 66 / 5MHz

## Highest Channel / QPSK



Date: 2.OCT.2018 21:16:45

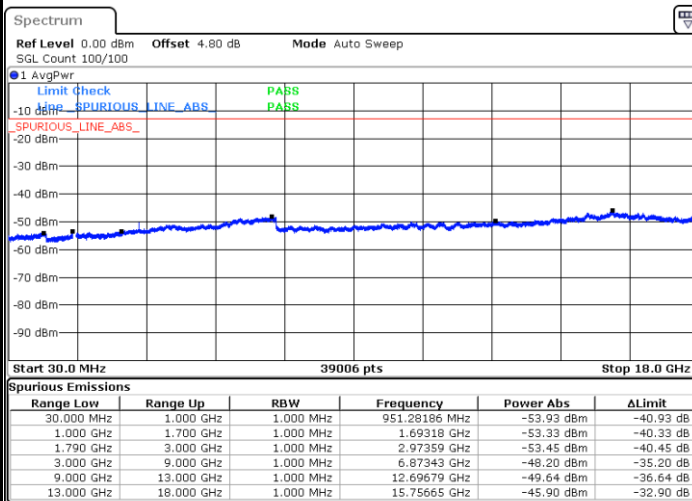
## Highest Channel / 16QAM



Date: 2.OCT.2018 21:17:27

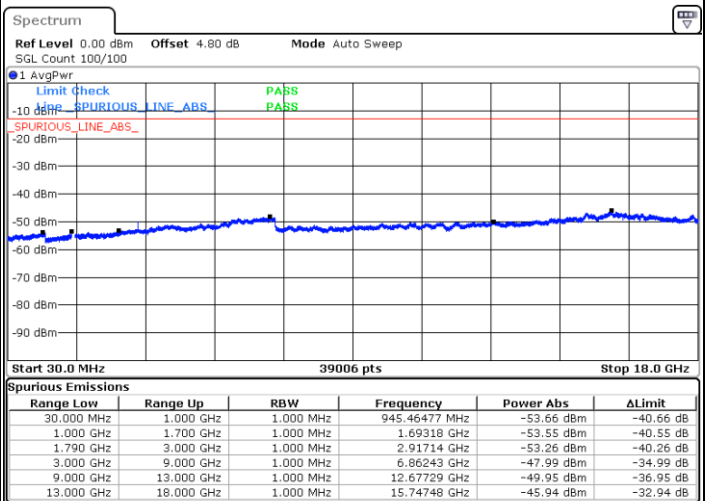
## LTE Band 66 / 10MHz

## Lowest Channel / QPSK



Date: 2.OCT.2018 21:23:28

## Lowest Channel / 16QAM

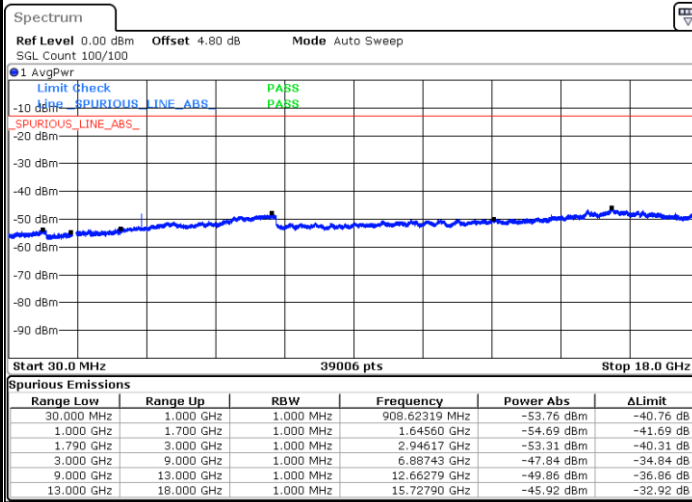


Date: 2.OCT.2018 21:24:15



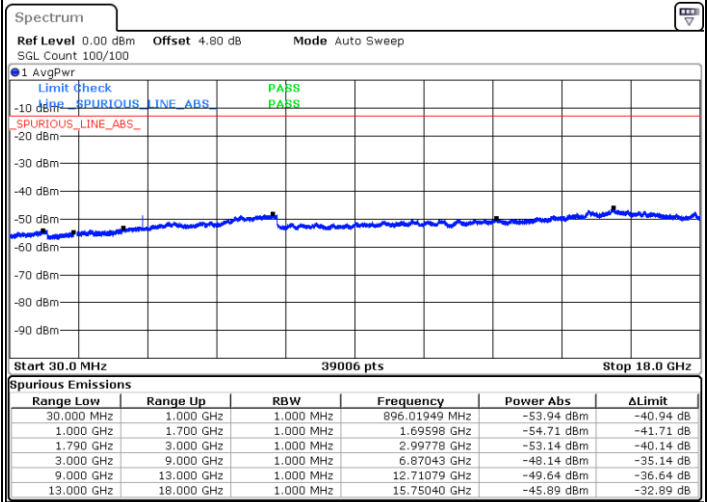
## LTE Band 66 / 10MHz

## Middle Channel / QPSK



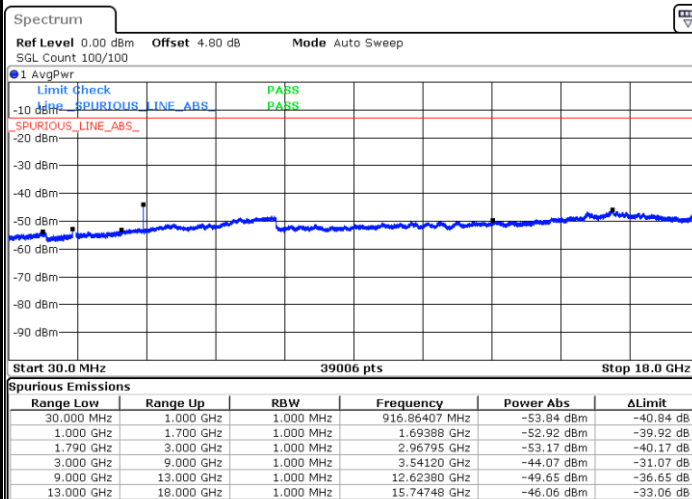
Date: 2.OCT.2018 21:26:13

## Middle Channel / 16QAM



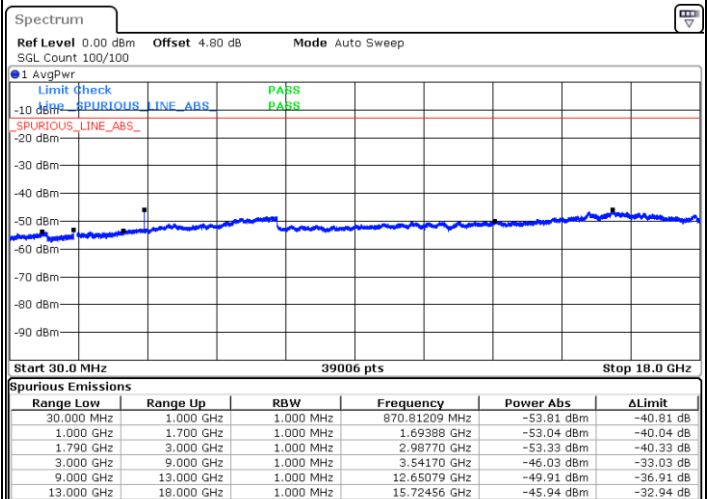
Date: 2.OCT.2018 21:26:51

## Highest Channel / QPSK



Date: 2.OCT.2018 21:32:11

## Highest Channel / 16QAM

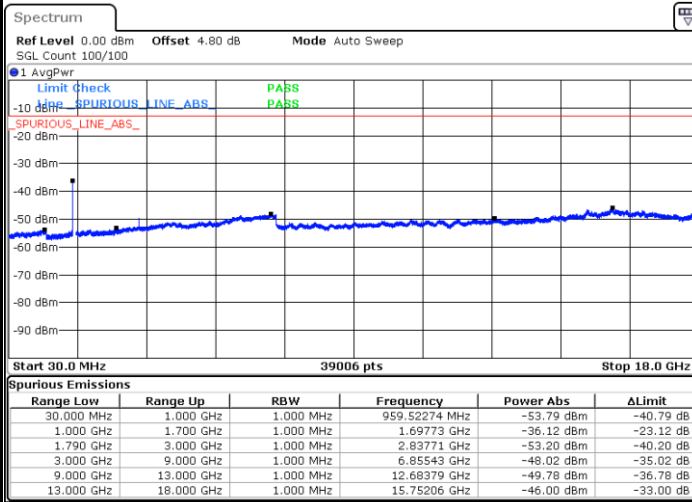


Date: 2.OCT.2018 21:32:48



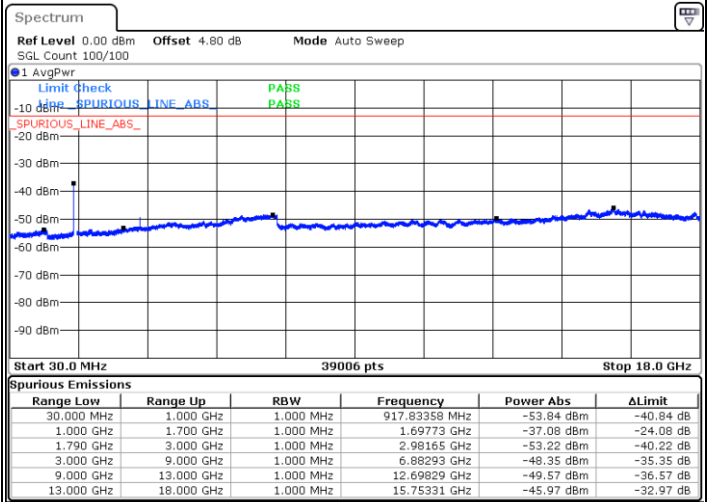
## LTE Band 66 / 15MHz

## Lowest Channel / QPSK



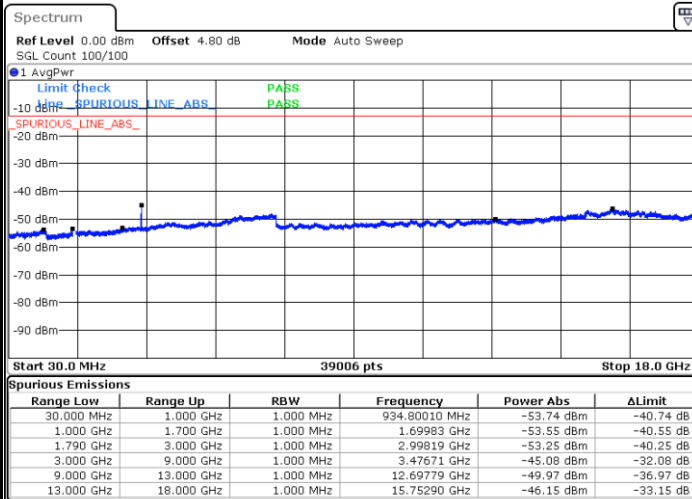
Date: 2.OCT.2018 21:36:59

## Lowest Channel / 16QAM



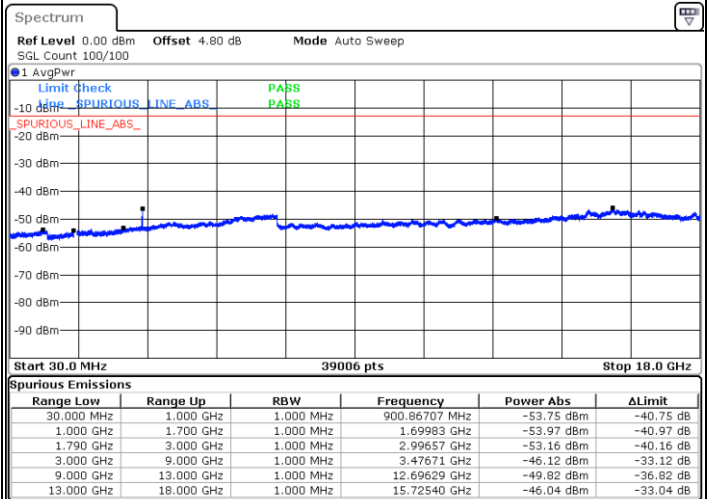
Date: 2.OCT.2018 21:37:44

## Middle Channel / QPSK



Date: 2.OCT.2018 21:39:22

## Middle Channel / 16QAM

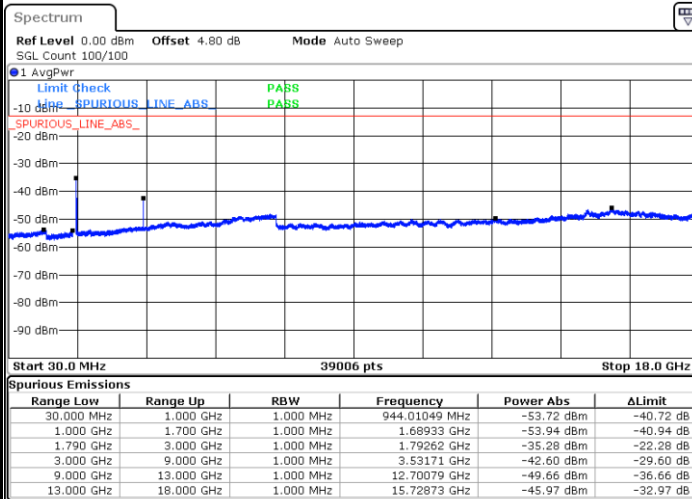


Date: 2.OCT.2018 21:39:59



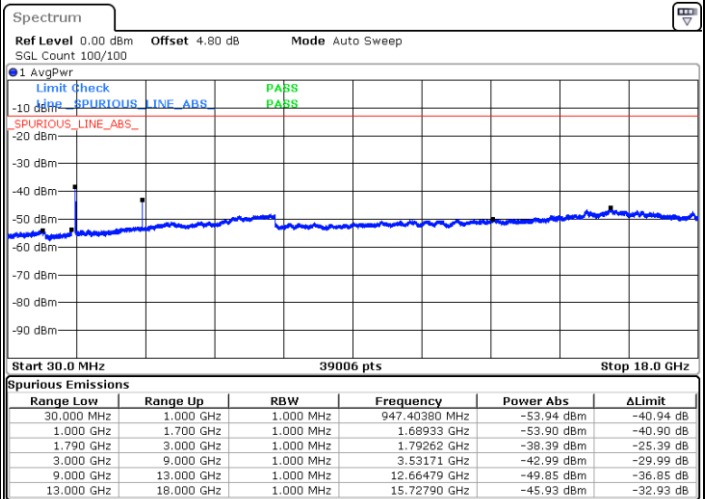
## LTE Band 66 / 15MHz

## Highest Channel / QPSK



Date: 2.OCT.2018 21:45:01

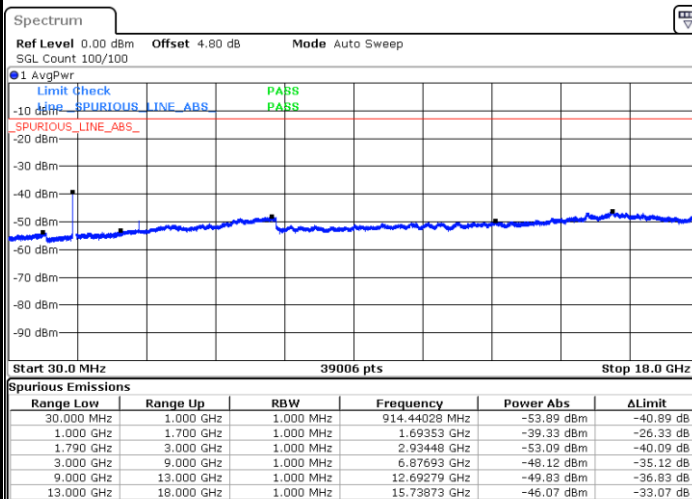
## Highest Channel / 16QAM



Date: 2.OCT.2018 21:45:35

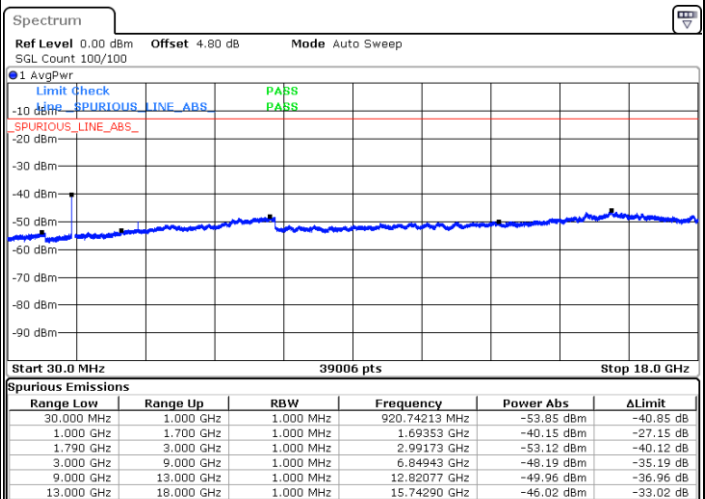
## LTE Band 66 / 20MHz

## Lowest Channel / QPSK



Date: 2.OCT.2018 21:51:00

## Lowest Channel / 16QAM

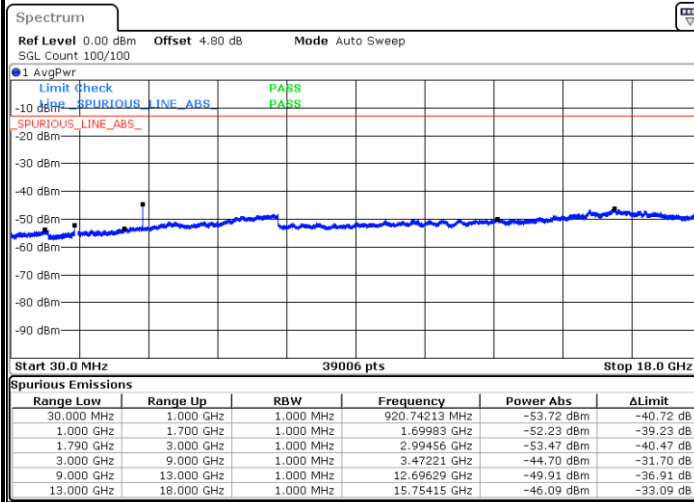


Date: 2.OCT.2018 21:52:28



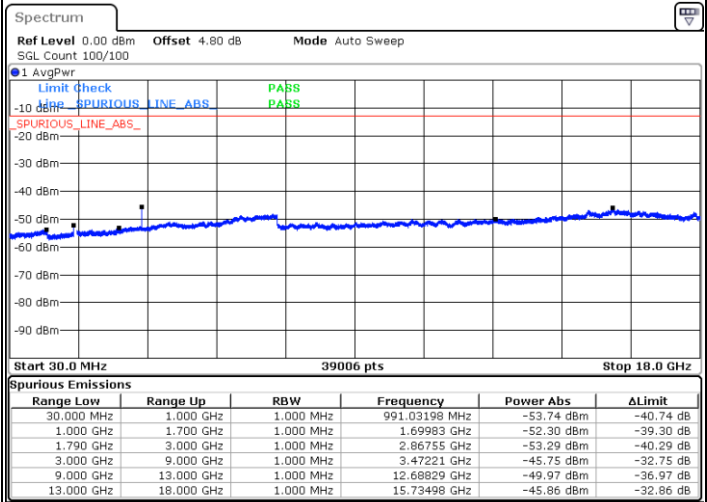
## LTE Band 66 / 20MHz

## Middle Channel / QPSK



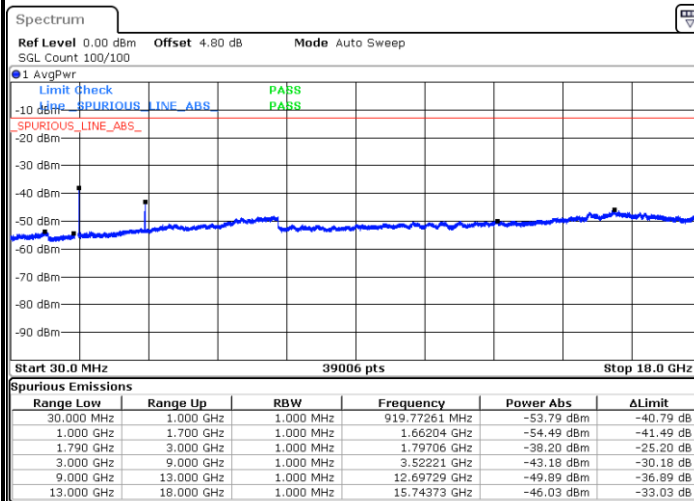
Date: 2.OCT.2018 21:54:43

## Middle Channel / 16QAM



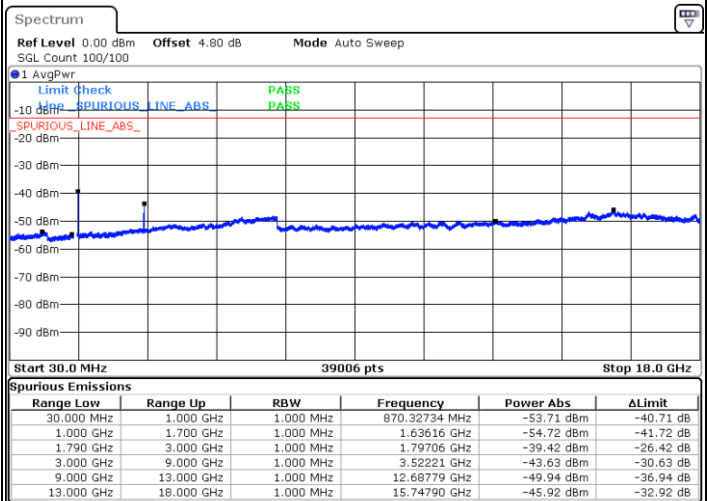
Date: 2.OCT.2018 21:55:33

## Highest Channel / QPSK



Date: 2.OCT.2018 22:02:38

## Highest Channel / 16QAM

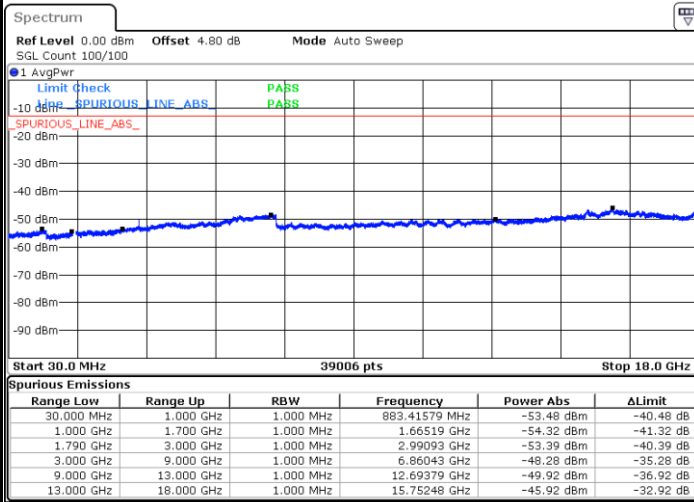


Date: 2.OCT.2018 22:03:36



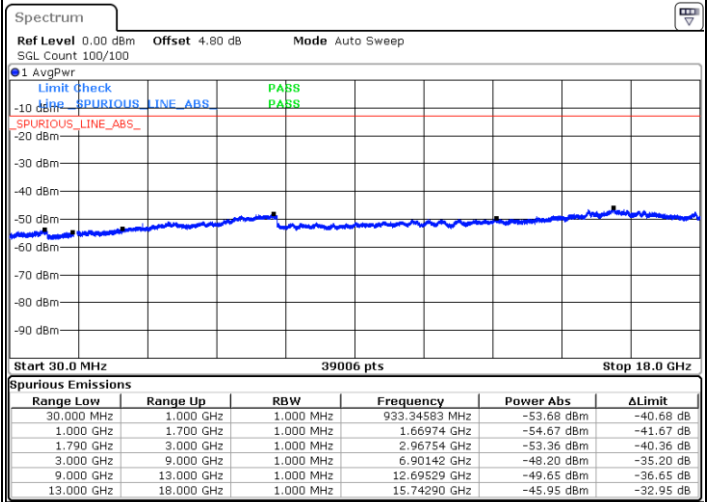
## LTE Band 66 / 1.4MHz

## Lowest Channel / 64QAM



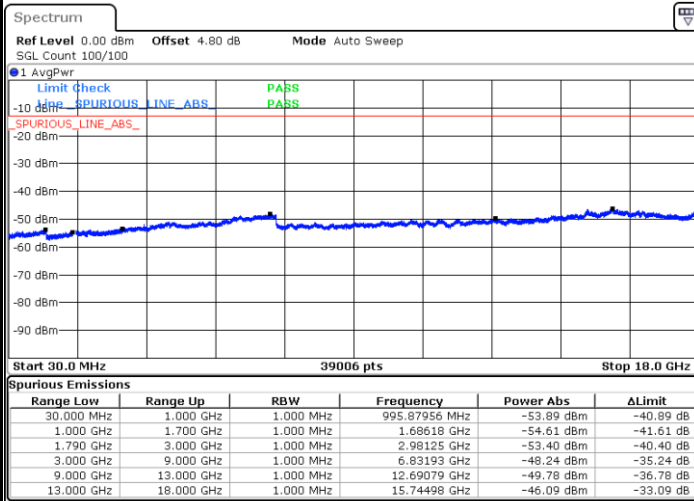
Date: 2.OCT.2018 20:22:27

## Middle Channel / 64QAM



Date: 2.OCT.2018 20:27:44

## Highest Channel / 64QAM

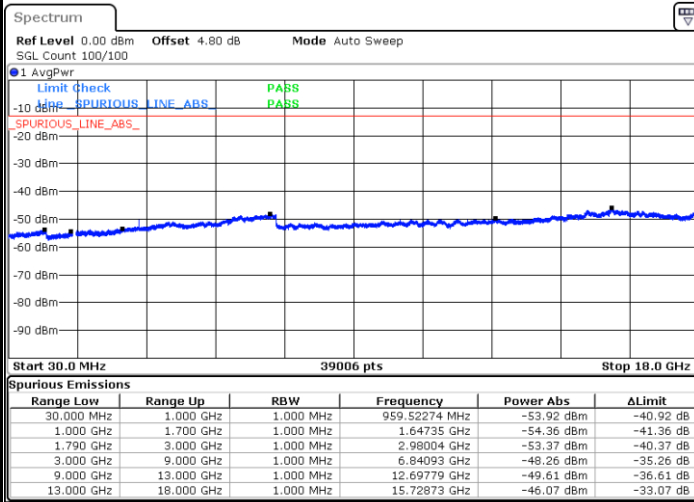


Date: 2.OCT.2018 20:36:29



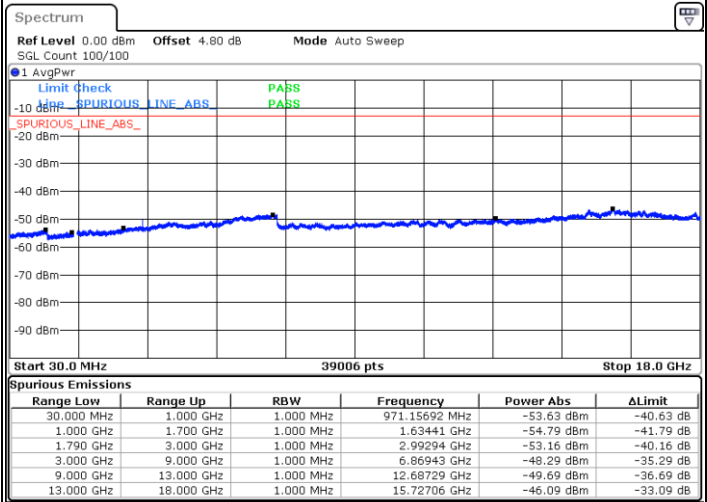
## LTE Band 66 / 3MHz

## Lowest Channel / 64QAM



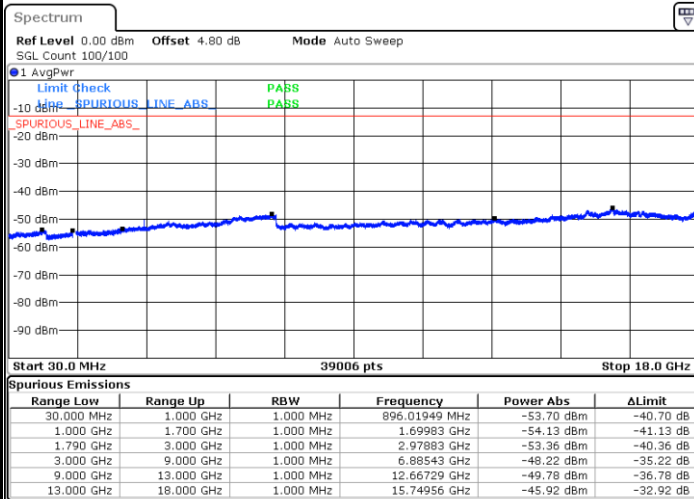
Date: 2.OCT.2018 20:53:29

## Middle Channel / 64QAM



Date: 2.OCT.2018 20:55:35

## Highest Channel / 64QAM

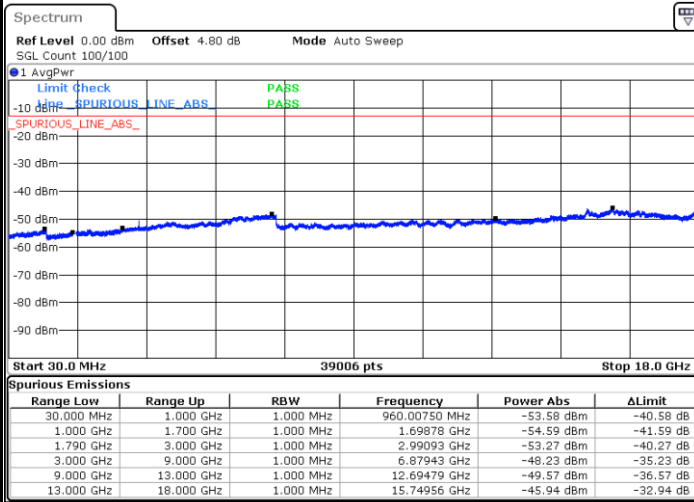


Date: 2.OCT.2018 21:02:31



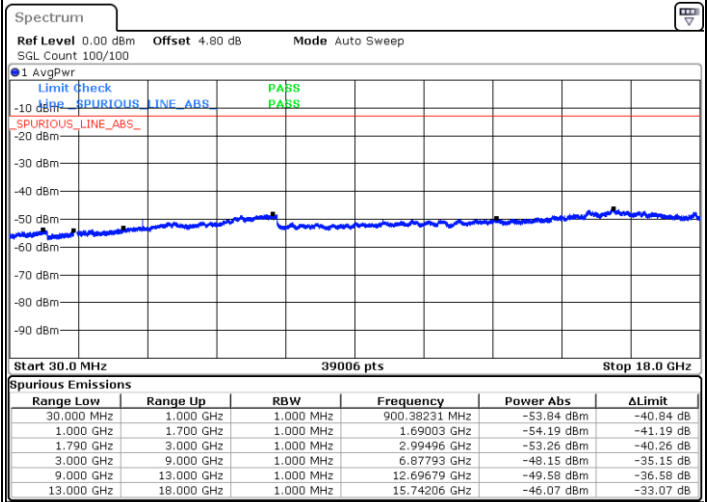
## LTE Band 66 / 5MHz

## Lowest Channel / 64QAM



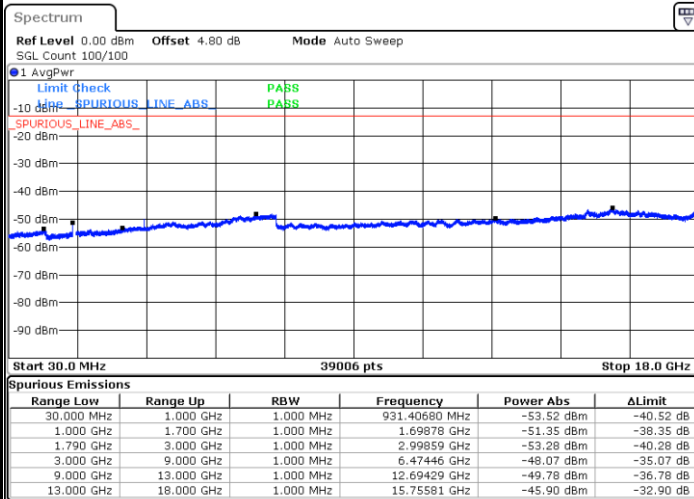
Date: 2.OCT.2018 21:09:48

## Middle Channel / 64QAM



Date: 2.OCT.2018 21:12:10

## Highest Channel / 64QAM

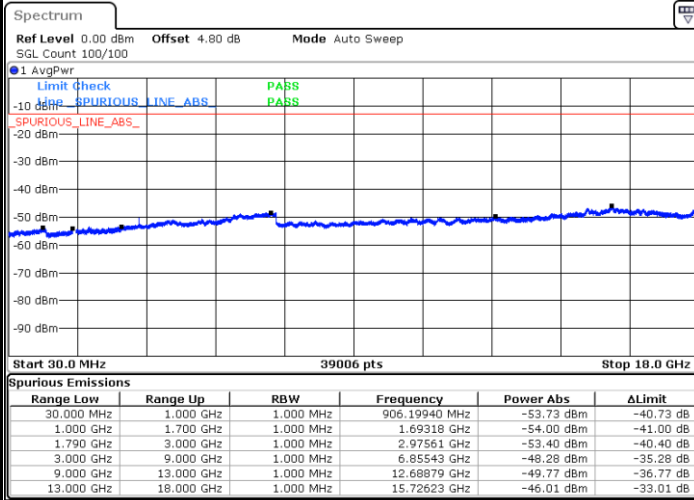


Date: 2.OCT.2018 21:18:02



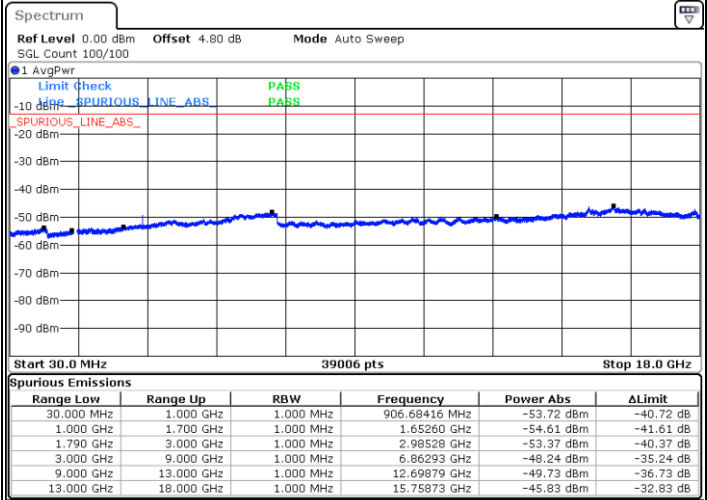
## LTE Band 66 / 10MHz

## Lowest Channel / 64QAM



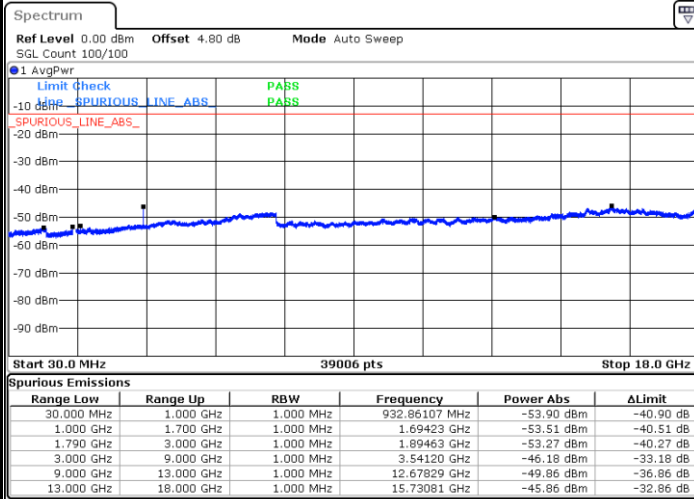
Date: 2.OCT.2018 21:25:03

## Middle Channel / 64QAM



Date: 2.OCT.2018 21:27:29

## Highest Channel / 64QAM

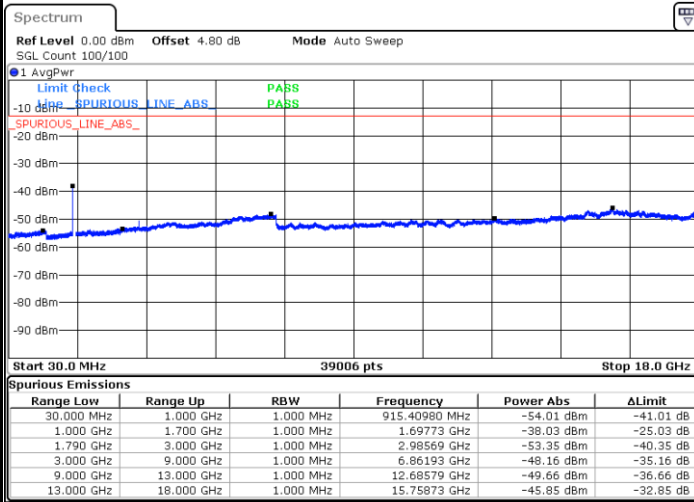


Date: 2.OCT.2018 21:33:23



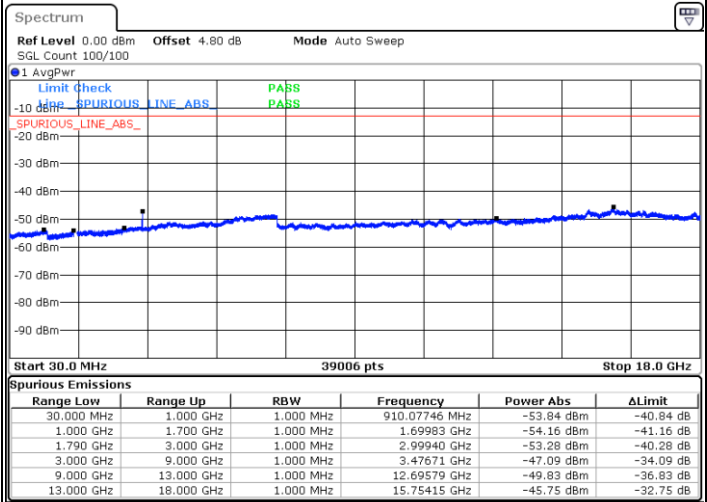
## LTE Band 66 / 15MHz

## Lowest Channel / 64QAM



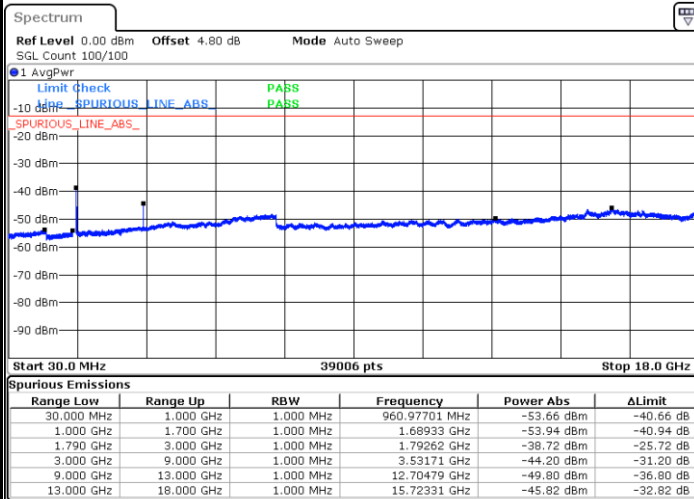
Date: 2.OCT.2018 21:38:38

## Middle Channel / 64QAM



Date: 2.OCT.2018 21:40:37

## Highest Channel / 64QAM

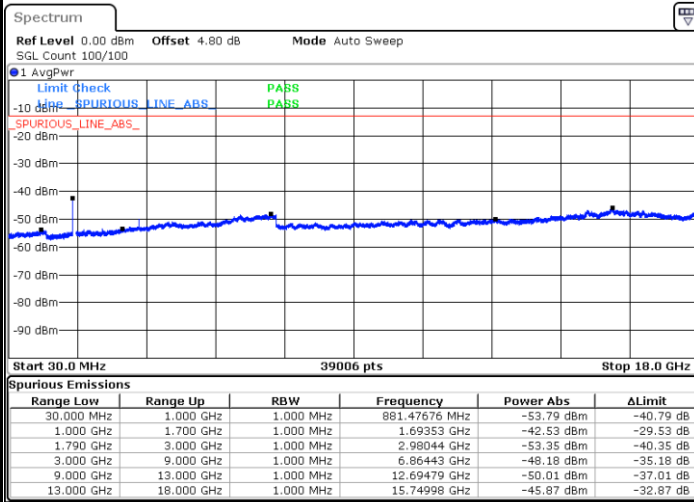


Date: 2.OCT.2018 21:46:10



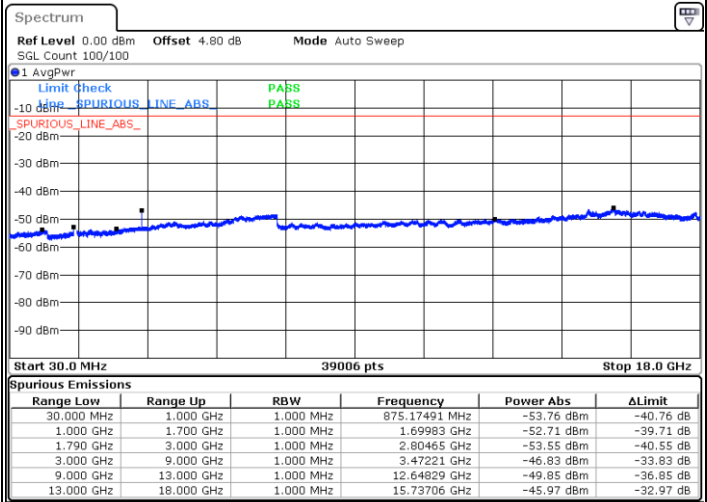
## LTE Band 66 / 20MHz

## Lowest Channel / 64QAM



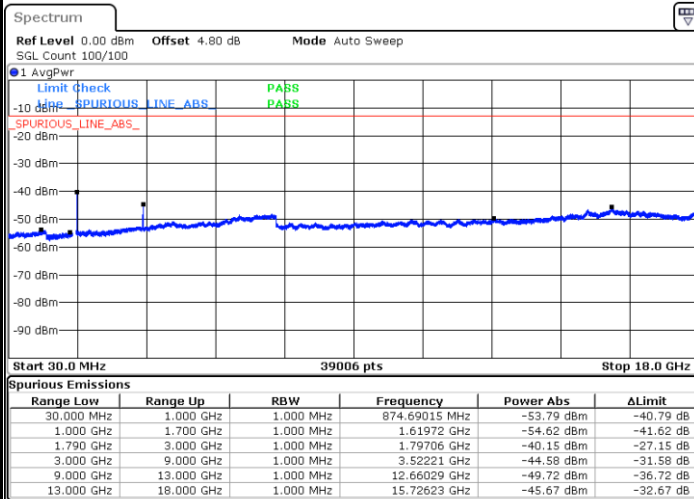
Date: 2.OCT.2018 21:53:14

## Middle Channel / 64QAM



Date: 2.OCT.2018 21:56:22

## Highest Channel / 64QAM



Date: 2.OCT.2018 22:04:43

**Frequency Stability**

| Test Conditions  |                   | LTE Band 66 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0011                              | PASS    |
| 40               | Normal Voltage    | 0.0026                              |         |
| 30               | Normal Voltage    | 0.0002                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0034                              |         |
| 0                | Normal Voltage    | 0.0005                              |         |
| -10              | Normal Voltage    | 0.0002                              |         |
| -20              | Normal Voltage    | 0.0021                              |         |
| -30              | Normal Voltage    | 0.0004                              |         |
| 20               | Maximum Voltage   | 0.0029                              |         |
| 20               | Normal Voltage    | 0.0005                              |         |
| 20               | Battery End Point | 0.0007                              |         |

**Note:**

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 71

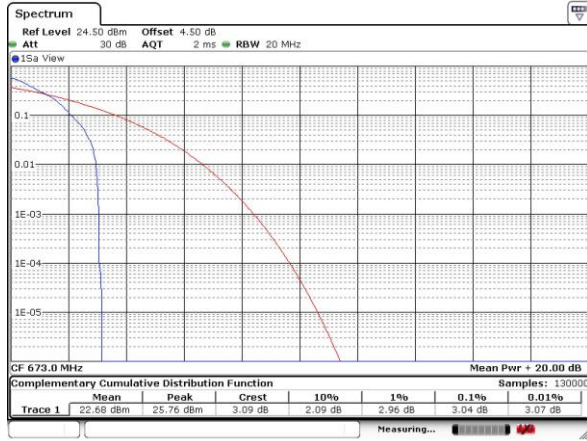
## Peak-to-Average Ratio

| Mode       | LTE Band 71 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.04                | 4.32    | 4.35        | 5.39    | PASS        |
| Middle CH  | 3.94                | 4.61    | 4.75        | 5.42    |             |
| Highest CH | 3.1                 | 4.38    | 4.14        | 5.42    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 5.28                | 5.88    | PASS        |         |             |
| Middle CH  | 5.91                | 5.97    |             |         |             |
| Highest CH | 5.01                | 5.97    |             |         |             |

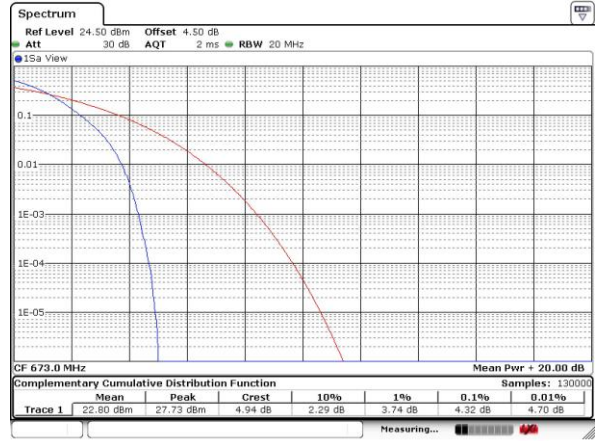


## LTE Band 71 / 20MHz / QPSK

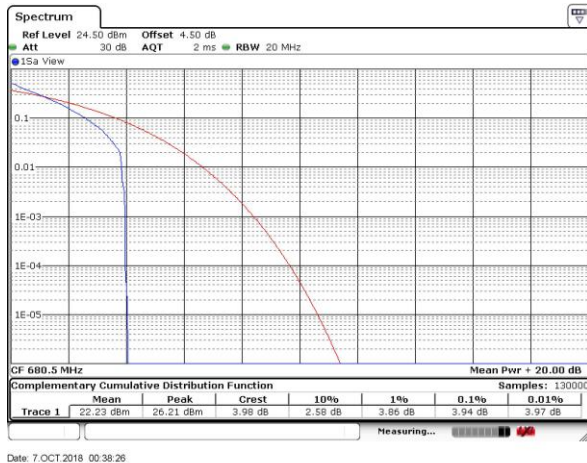
## Lowest Channel / 1RB



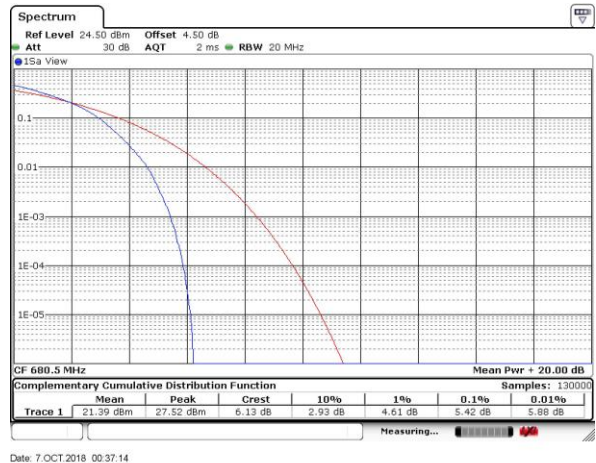
## Lowest Channel / Full RB



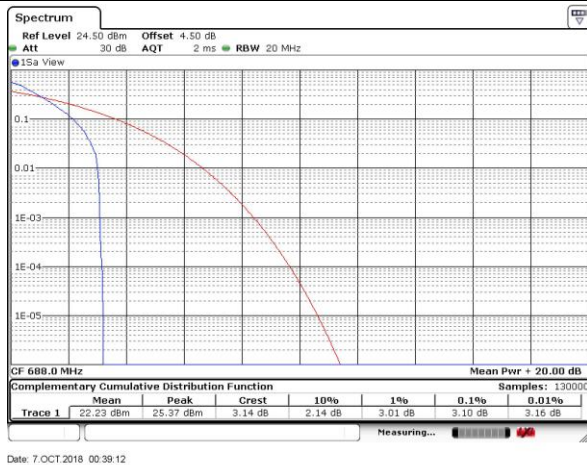
## Middle Channel / 1RB



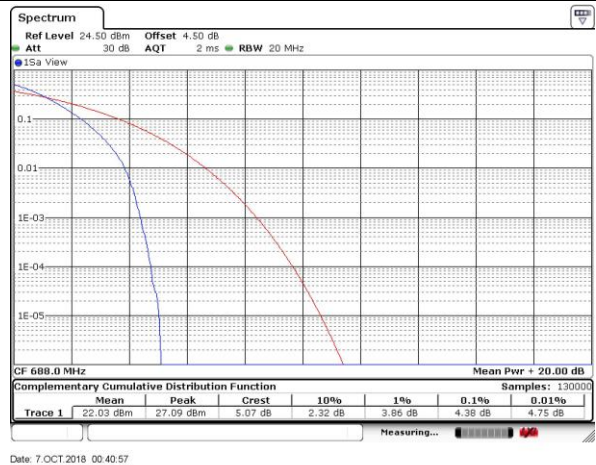
## Middle Channel / Full RB



## Highest Channel / 1RB



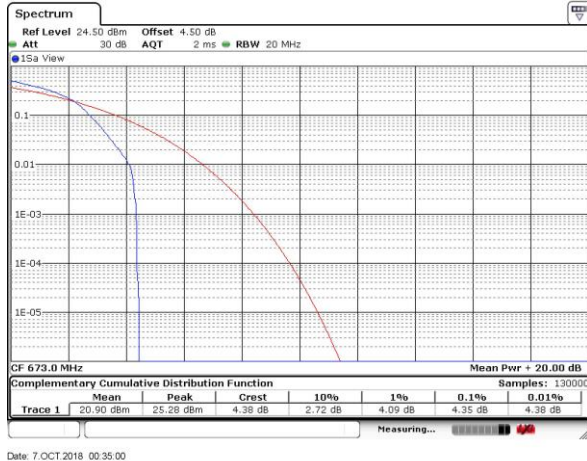
## Highest Channel / Full RB



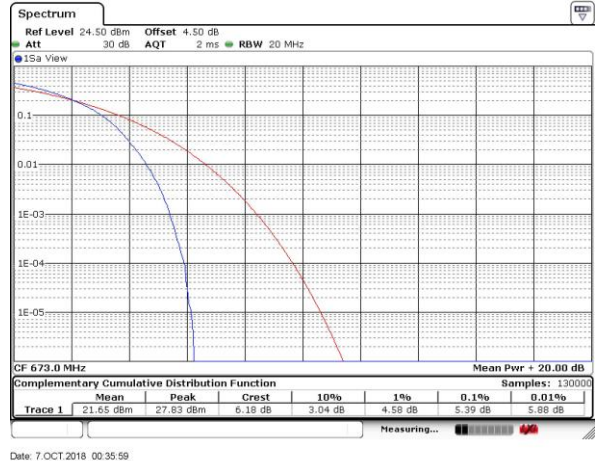


## LTE Band 71 / 20MHz / 16QAM

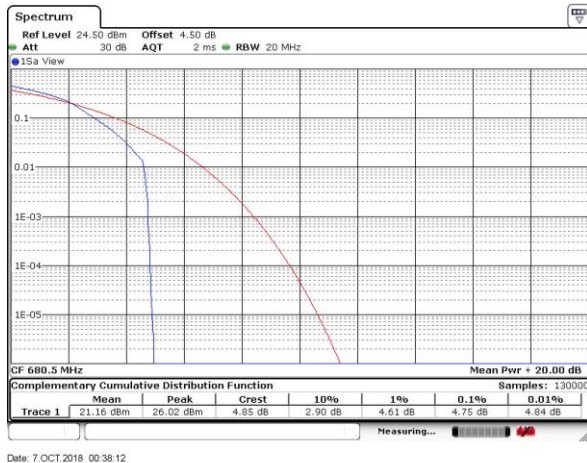
## Lowest Channel / 1RB



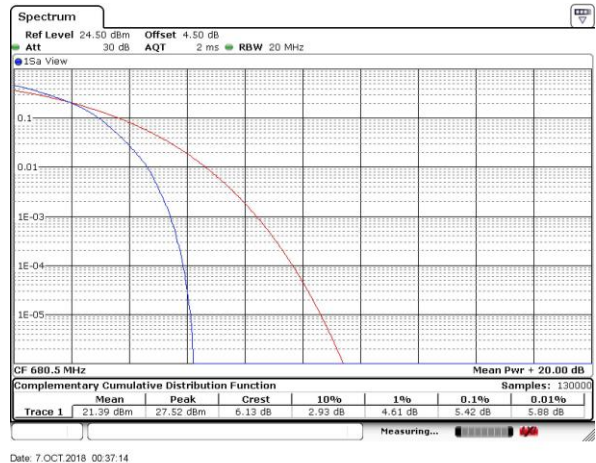
## Lowest Channel / Full RB



## Middle Channel / 1RB



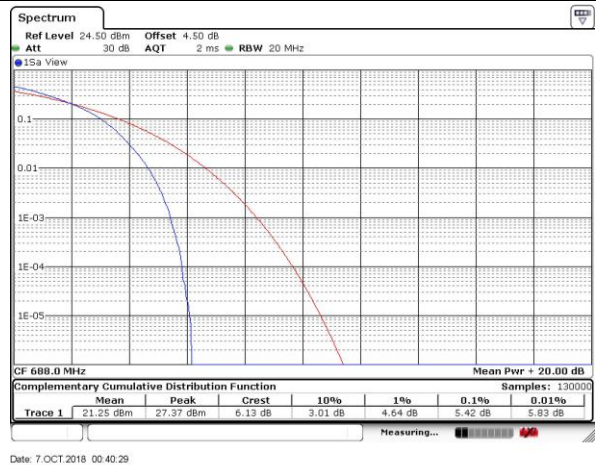
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



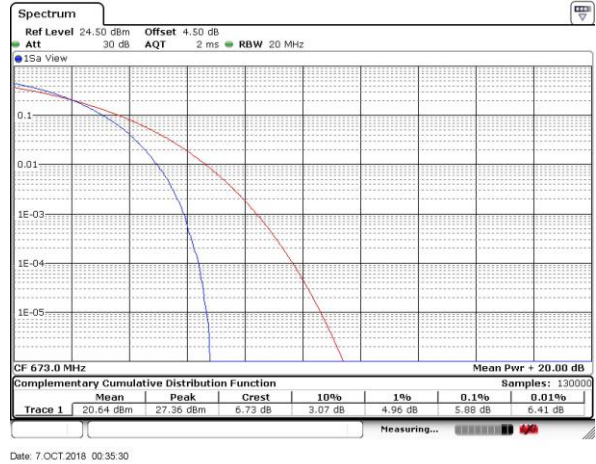


## LTE Band 71 / 20MHz / 64QAM

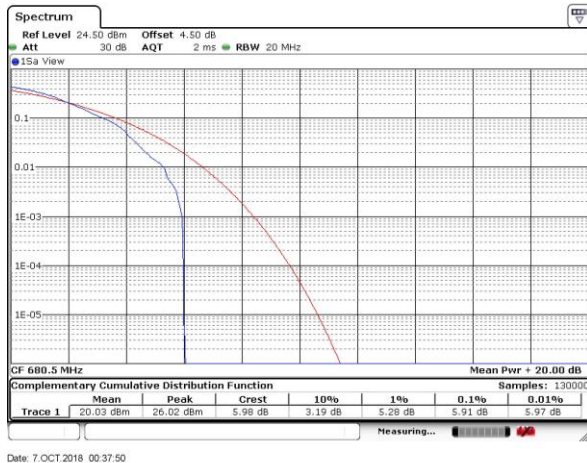
## Lowest Channel / 1RB



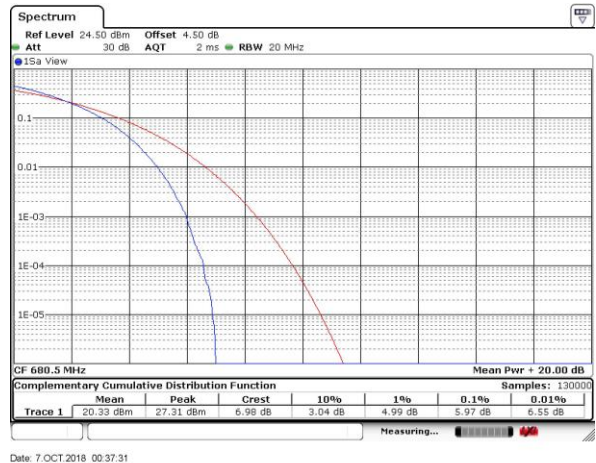
## Lowest Channel / Full RB



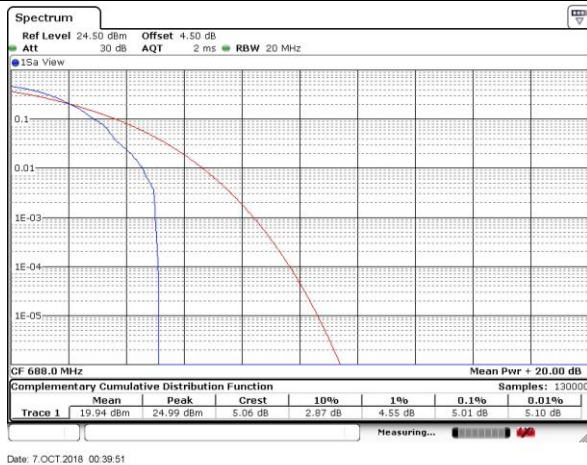
## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





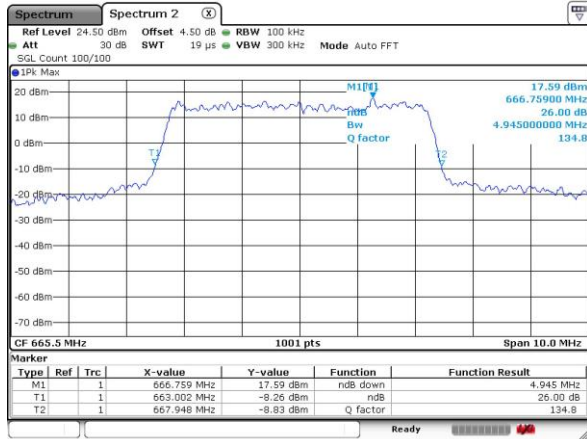
## 26dB Bandwidth

| Mode       | LTE Band 71 : 26dB BW(MHz) |       |       |       |        |        |       |       |       |       |        |       |
|------------|----------------------------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|-------|
| BW         | 5MHz                       |       | 10MHz |       | 15MHz  |        | 20MHz |       | 5MHz  | 10MHz | 15MHz  | 20MHz |
| Mod.       | QPSK                       | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM  | QPSK  | 16QAM | 64QAM | 64QAM | 64QAM  | 64QAM |
| Lowest CH  | 4.945                      | 4.965 | 9.81  | 9.67  | 14.206 | 14.476 | 20.18 | 20.14 | 4.865 | 9.83  | 14.326 | 19.98 |
| Middle CH  | 4.945                      | 4.845 | 9.75  | 9.75  | 14.386 | 14.446 | 20.1  | 20.1  | 4.835 | 9.89  | 14.416 | 20.22 |
| Highest CH | 5.025                      | 4.935 | 9.95  | 9.69  | 14.146 | 14.476 | 20.3  | 20.1  | 5.035 | 9.71  | 14.356 | 20.22 |



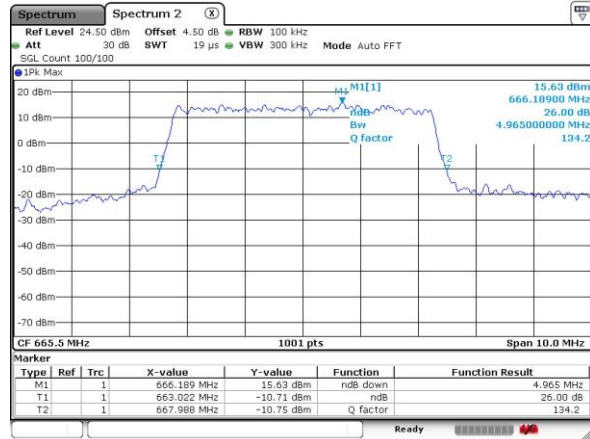
## LTE Band 71

## Lowest Channel / 5MHz / QPSK



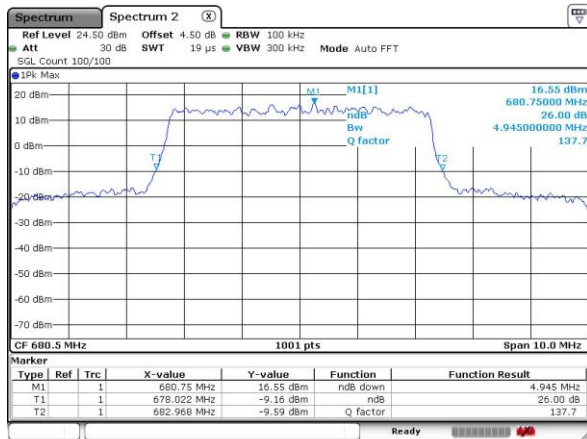
Date: 6.OCT.2018 21:56:03

## Lowest Channel / 5MHz / 16QAM



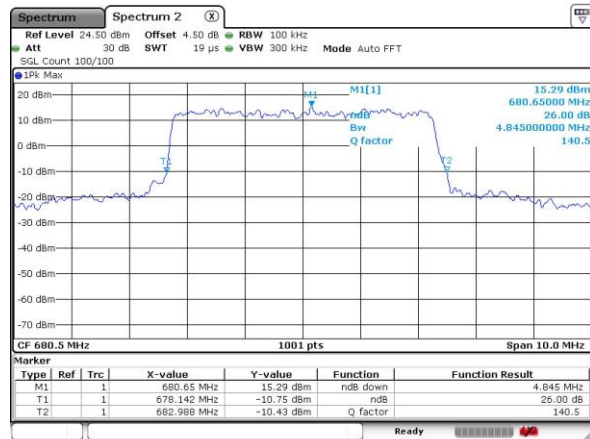
Date: 6.OCT.2018 21:57:51

## Middle Channel / 5MHz / QPSK



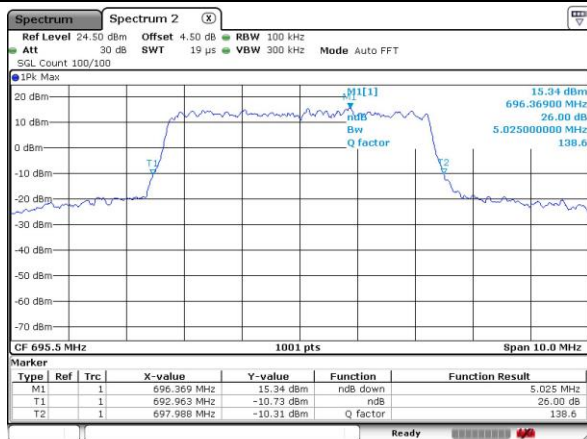
Date: 6.OCT.2018 22:02:10

## Middle Channel / 5MHz / 16QAM



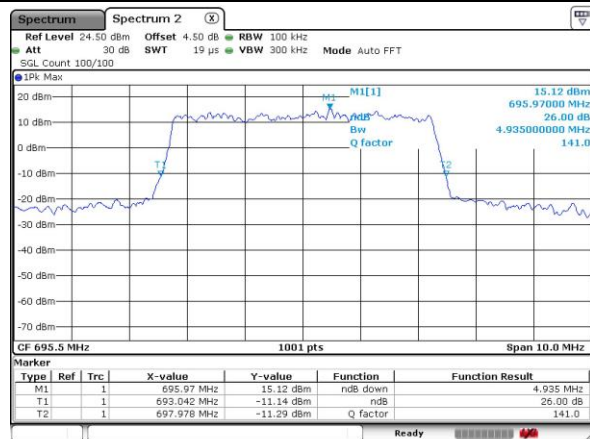
Date: 6.OCT.2018 22:01:09

## Highest Channel / 5MHz / QPSK



Date: 6.OCT.2018 22:03:10

## Highest Channel / 5MHz / 16QAM

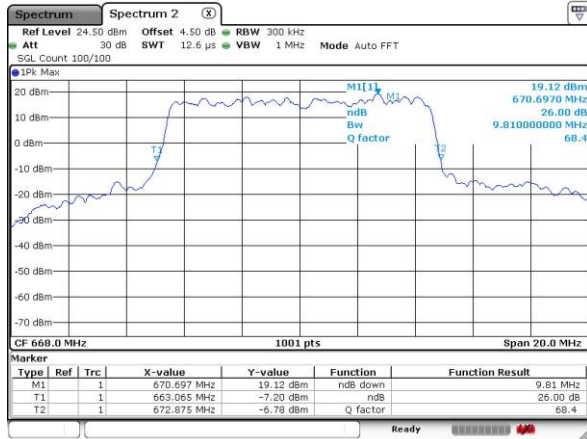


Date: 6.OCT.2018 22:04:50



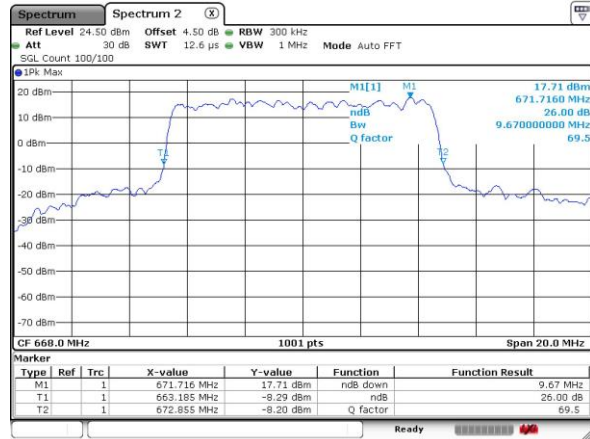
## LTE Band 71

## Lowest Channel / 10MHz / QPSK



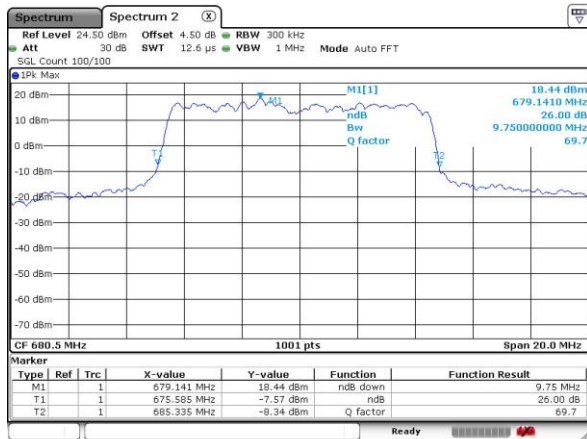
Date: 6 OCT 2018 22:09:40

## Lowest Channel / 10MHz / 16QAM



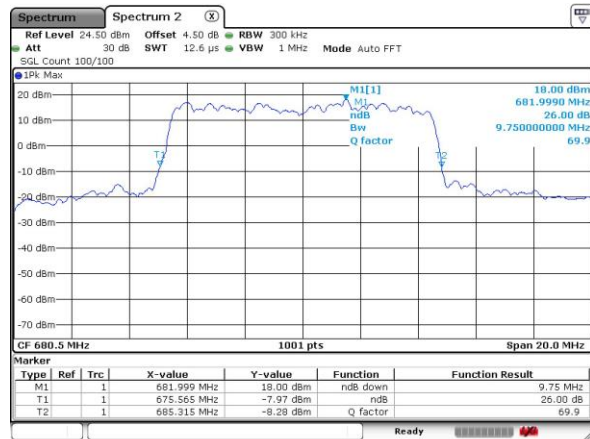
Date: 6 OCT 2018 22:10:54

## Middle Channel / 10MHz / QPSK



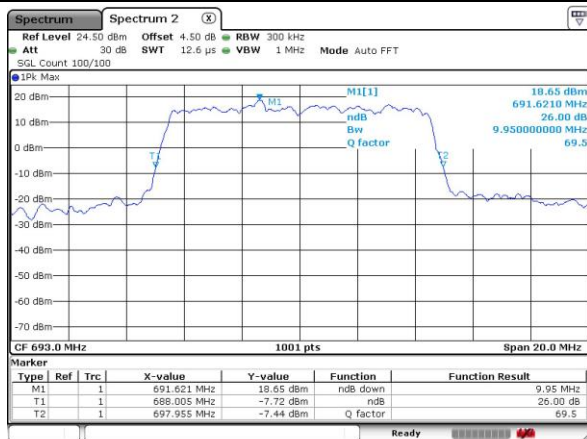
Date: 6 OCT 2018 22:13:41

## Middle Channel / 10MHz / 16QAM



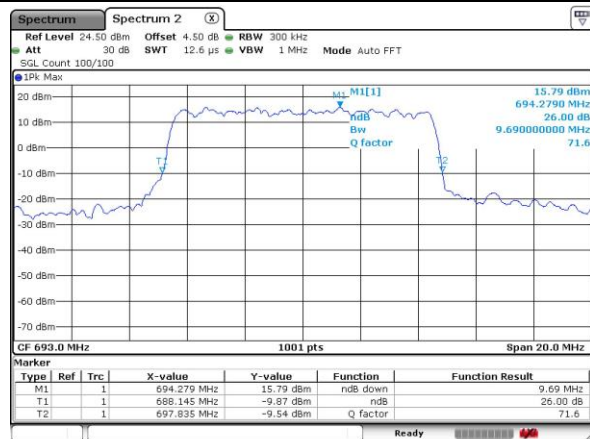
Date: 6 OCT 2018 22:13:20

## Highest Channel / 10MHz / QPSK



Date: 6 OCT 2018 22:15:16

## Highest Channel / 10MHz / 16QAM

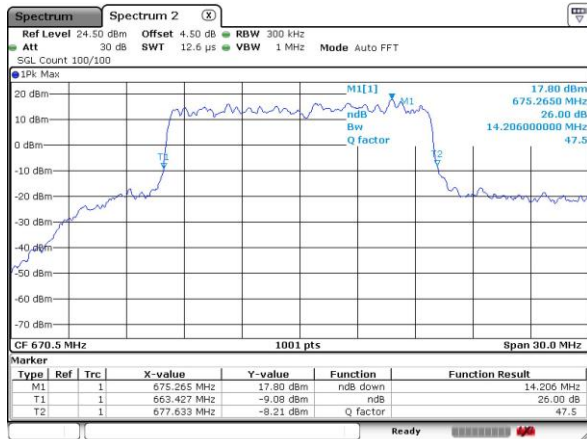


Date: 6 OCT 2018 22:16:06



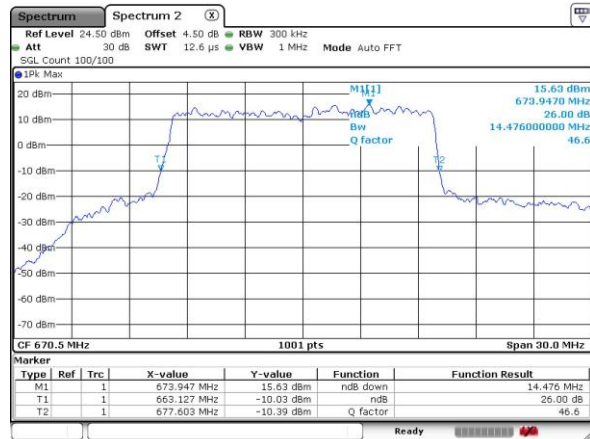
## LTE Band 71

## Lowest Channel / 15MHz / QPSK



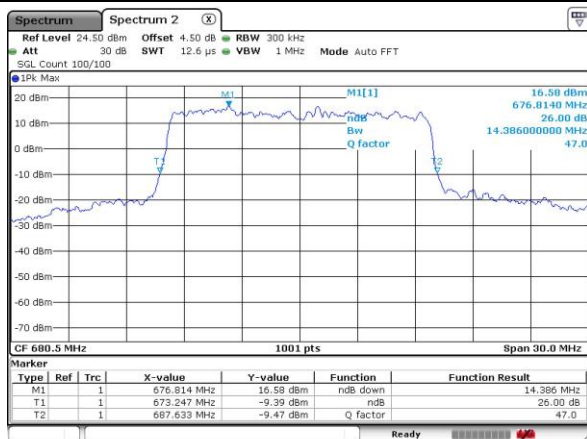
Date: 6 OCT 2018 22:18:43

## Lowest Channel / 15MHz / 16QAM



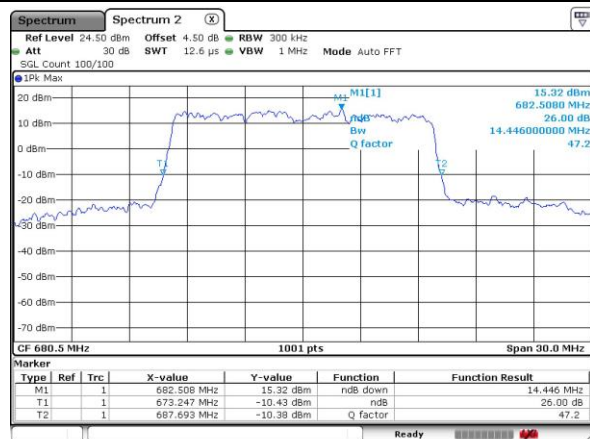
Date: 6 OCT 2018 22:20:16

## Middle Channel / 15MHz / QPSK



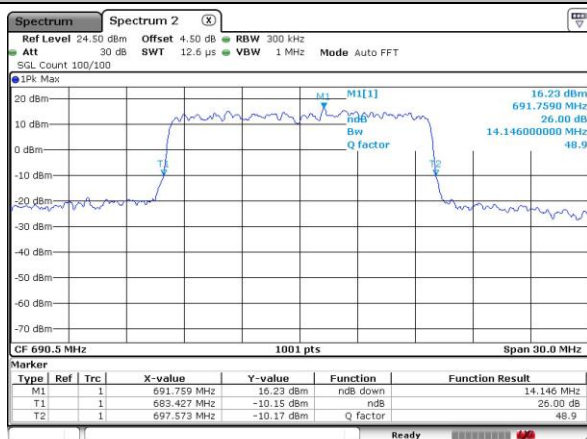
Date: 6 OCT 2018 22:24:07

## Middle Channel / 15MHz / 16QAM



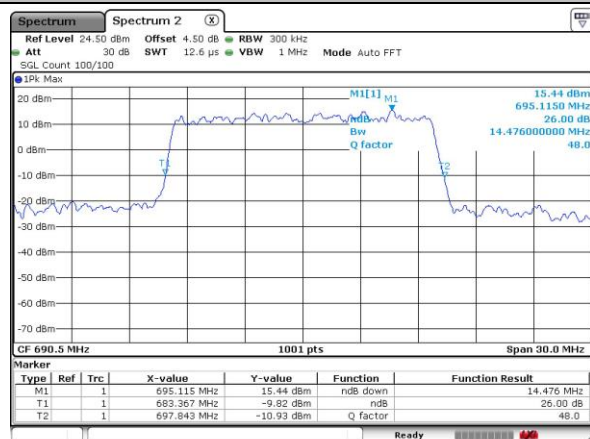
Date: 6 OCT 2018 22:23:05

## Highest Channel / 15MHz / QPSK



Date: 6 OCT 2018 22:24:56

## Highest Channel / 15MHz / 16QAM

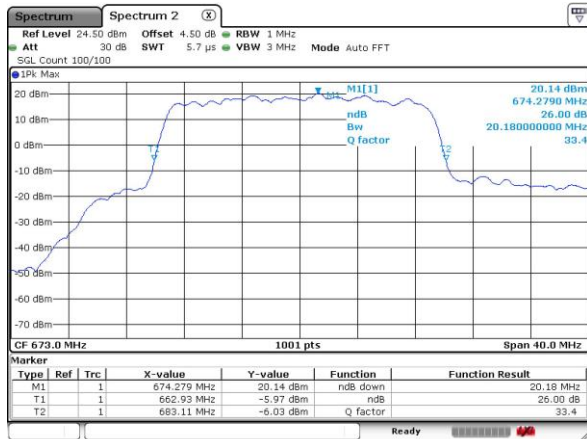


Date: 6 OCT 2018 22:26:45



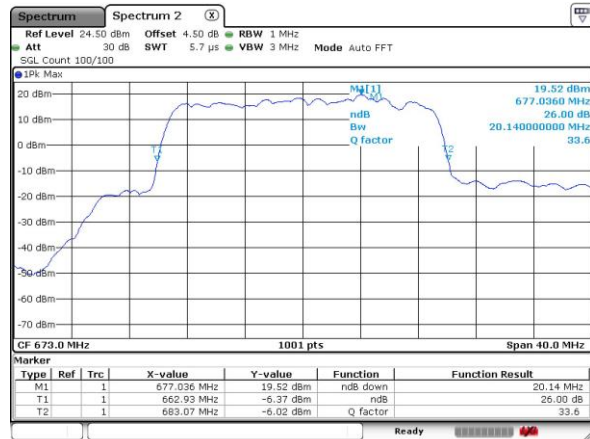
## LTE Band 71

## Lowest Channel / 20MHz / QPSK



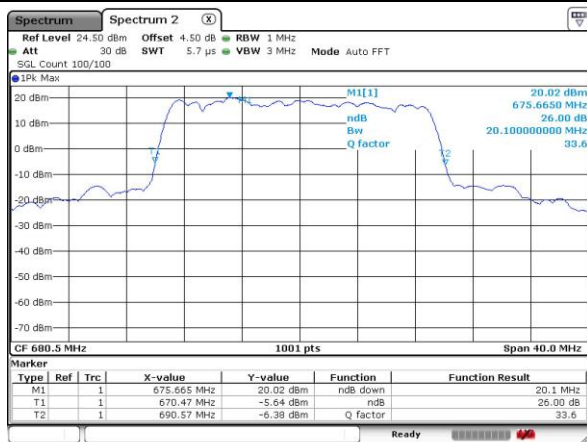
Date: 6 OCT 2018 22:32:42

## Lowest Channel / 20MHz / 16QAM



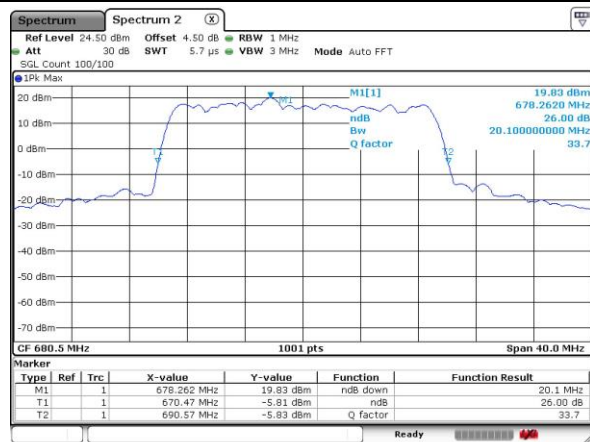
Date: 6 OCT 2018 22:31:45

## Middle Channel / 20MHz / QPSK



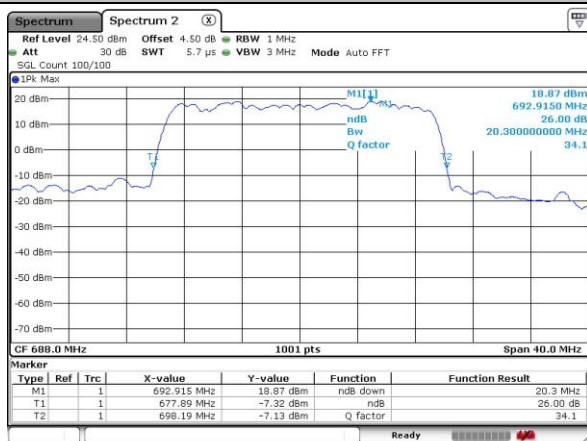
Date: 6 OCT 2018 22:33:15

## Middle Channel / 20MHz / 16QAM



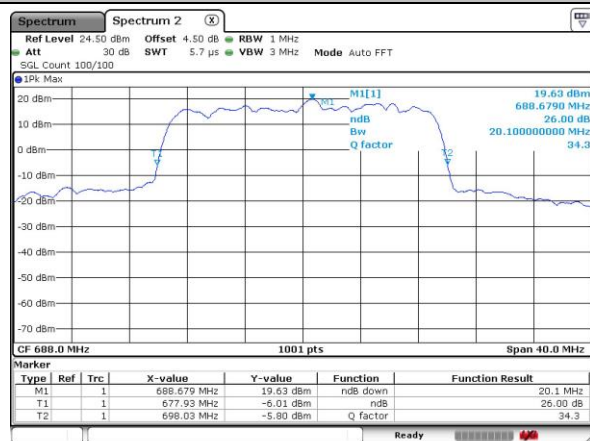
Date: 6 OCT 2018 22:34:32

## Highest Channel / 20MHz / QPSK



Date: 6 OCT 2018 22:37:52

## Highest Channel / 20MHz / 16QAM

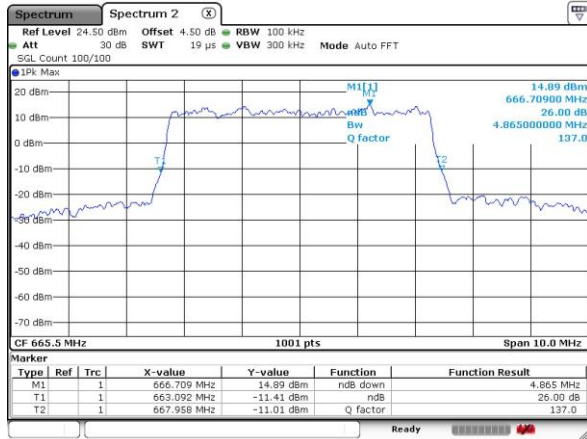


Date: 6 OCT 2018 22:36:52



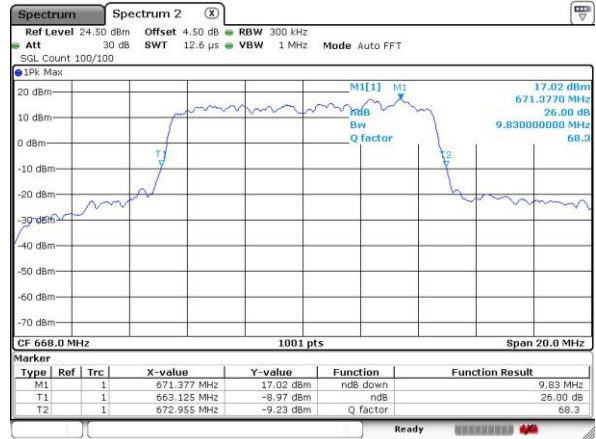
## LTE Band 71

## Lowest Channel / 5MHz / 64QAM



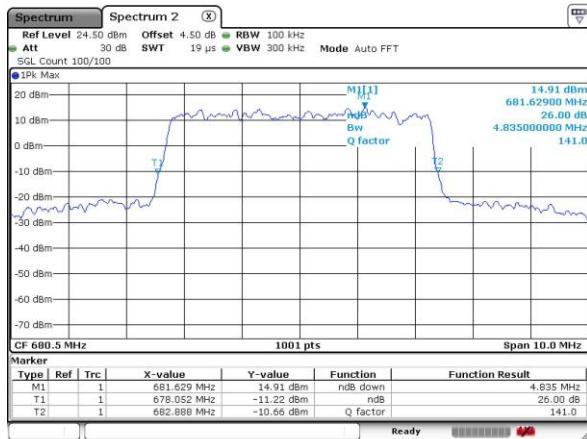
Date: 6 OCT 2018 21:58:33

## Lowest Channel / 10MHz / 64QAM



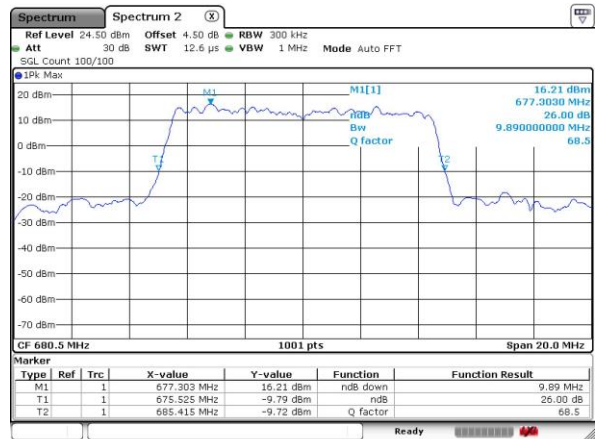
Date: 6 OCT 2018 22:11:32

## Middle Channel / 5MHz / 64QAM



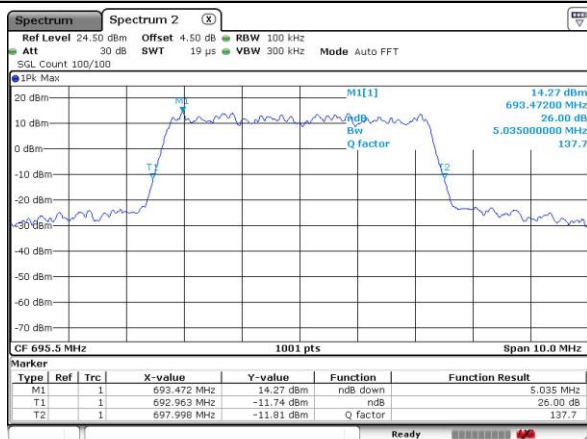
Date: 6 OCT 2018 22:00:38

## Middle Channel / 10MHz / 64QAM



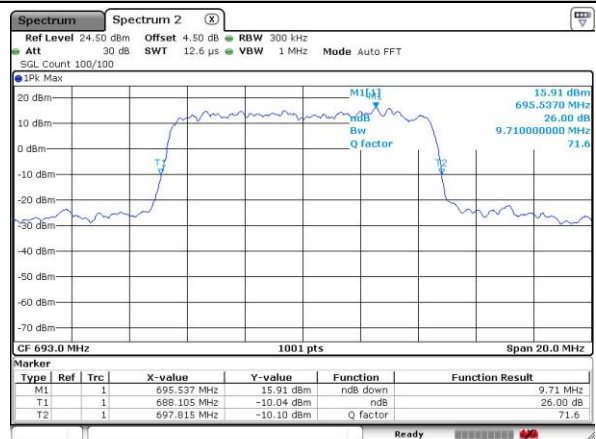
Date: 6 OCT 2018 22:12:12

## Highest Channel / 5MHz / 64QAM



Date: 6 OCT 2018 22:05:12

## Highest Channel / 10MHz / 64QAM

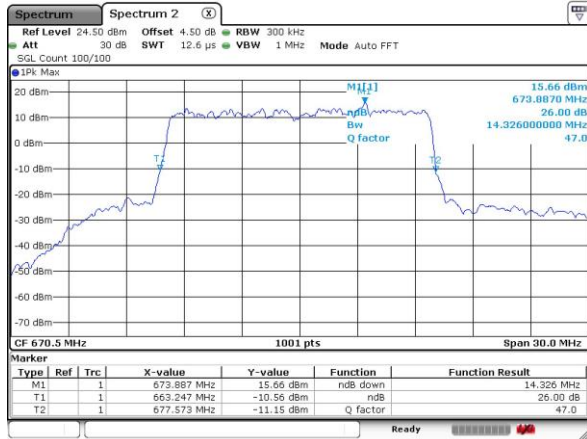


Date: 6 OCT 2018 22:16:33



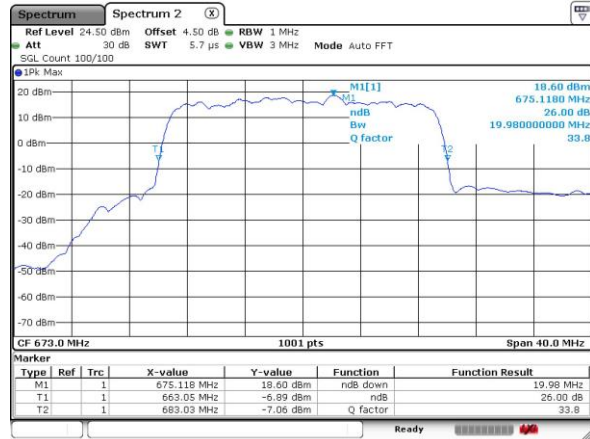
## LTE Band 71

## Lowest Channel / 15MHz / 64QAM



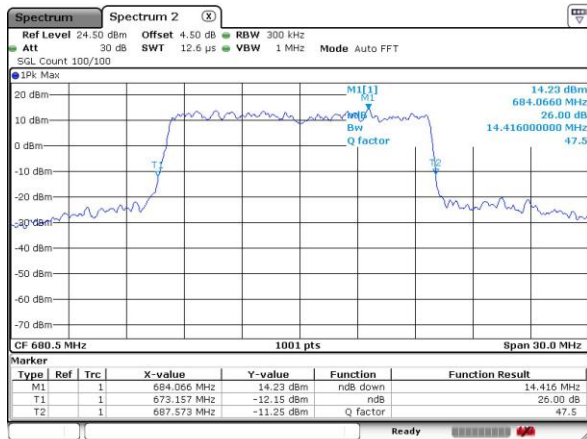
Date: 6 OCT 2018 22:20:36

## Lowest Channel / 20MHz / 64QAM



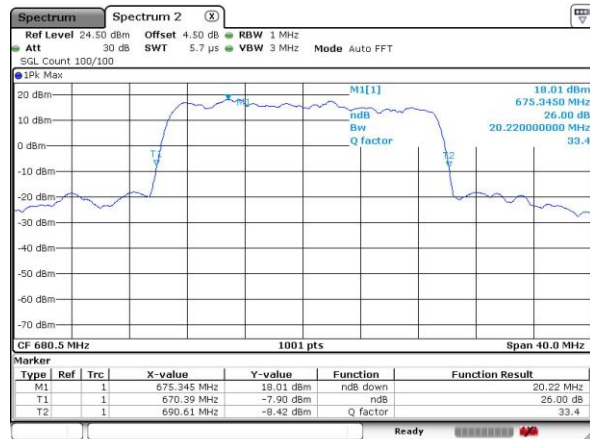
Date: 6 OCT 2018 22:31:13

## Middle Channel / 15MHz / 64QAM



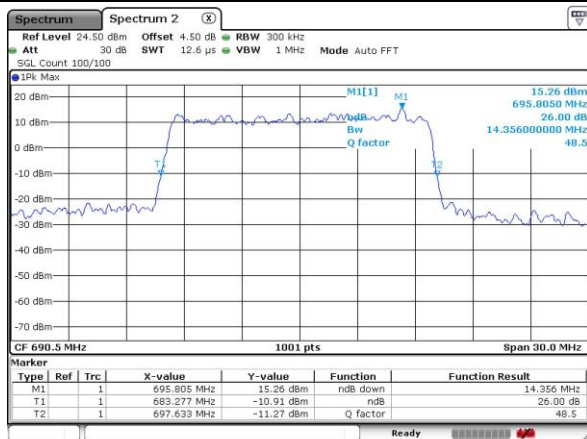
Date: 6 OCT 2018 22:22:30

## Middle Channel / 20MHz / 64QAM



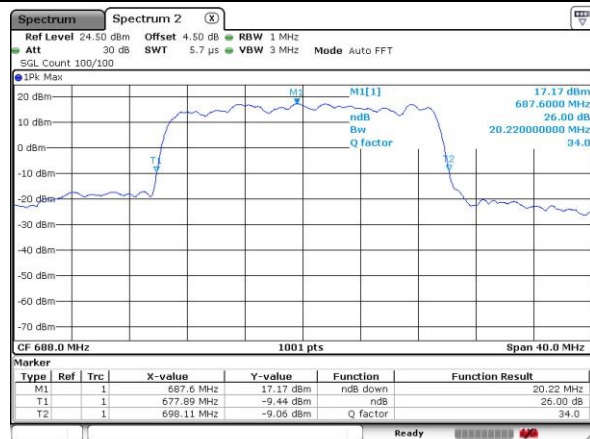
Date: 6 OCT 2018 22:34:58

## Highest Channel / 15MHz / 64QAM



Date: 6 OCT 2018 22:27:14

## Highest Channel / 20MHz / 64QAM



Date: 6 OCT 2018 22:36:16



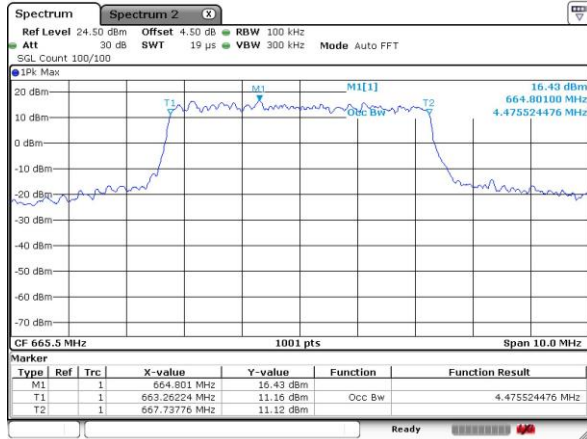
## Occupied Bandwidth

| Mode       | LTE Band 71 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                      |       | 10MHz |       | 15MHz |       | 20MHz |       | 5MHz  | 10MHz | 15MHz | 20MHz |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | 64QAM | 64QAM | 64QAM | 64QAM |
| Lowest CH  | 4.48                      | 4.49  | 9.03  | 9.09  | 13.43 | 13.46 | 18.34 | 18.38 | 4.51  | 9.05  | 13.46 | 18.26 |
| Middle CH  | 4.48                      | 4.51  | 9.05  | 8.99  | 13.43 | 13.49 | 18.38 | 18.46 | 4.51  | 9.03  | 13.4  | 18.34 |
| Highest CH | 4.48                      | 4.48  | 9.03  | 9.03  | 13.37 | 13.4  | 18.38 | 18.26 | 4.49  | 8.97  | 13.4  | 18.38 |



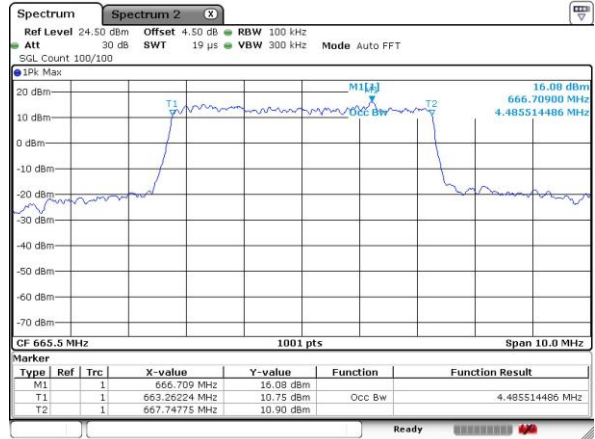
## LTE Band 71

## Lowest Channel / 5MHz / QPSK



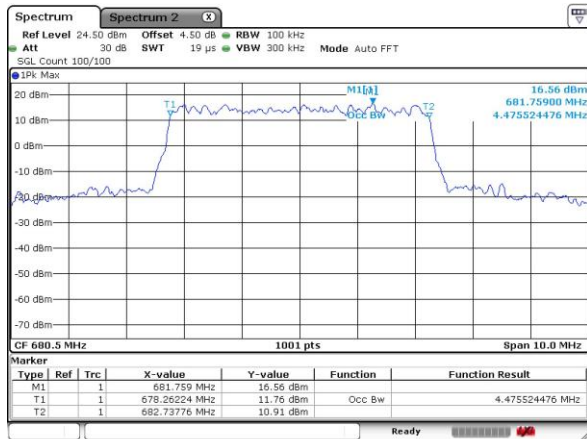
Date: 6 OCT 2018 21:56:57

## Lowest Channel / 5MHz / 16QAM



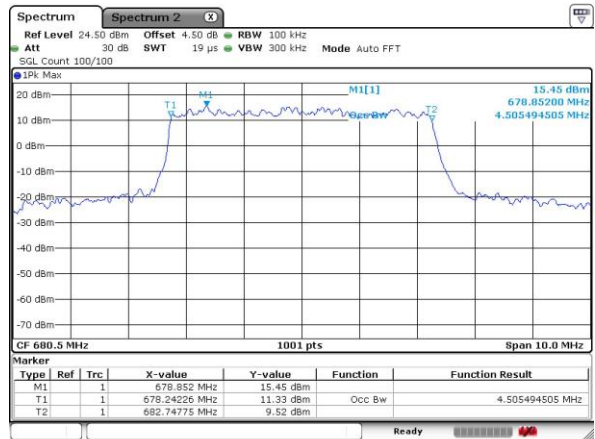
Date: 6 OCT 2018 21:57:33

## Middle Channel / 5MHz / QPSK



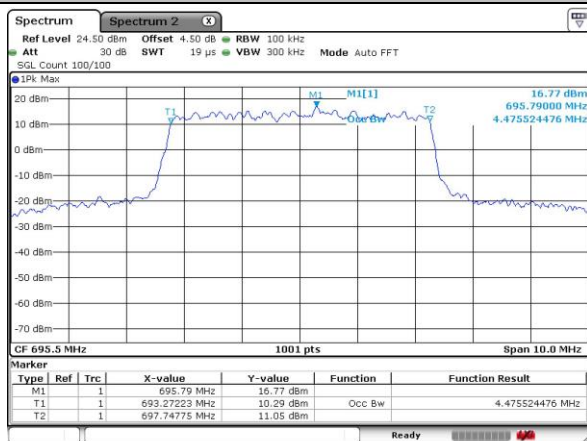
Date: 6 OCT 2018 22:01:55

## Middle Channel / 5MHz / 16QAM



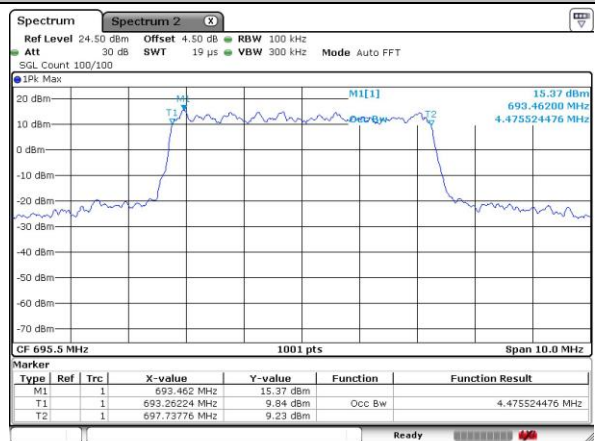
Date: 6 OCT 2018 22:01:34

## Highest Channel / 5MHz / QPSK



Date: 6 OCT 2018 22:04:04

## Highest Channel / 5MHz / 16QAM



Date: 6 OCT 2018 22:04:26