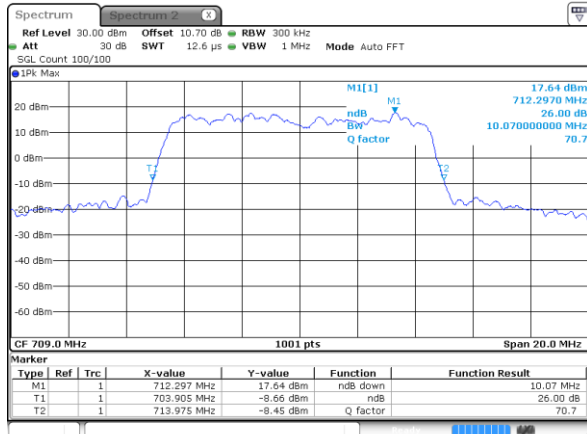


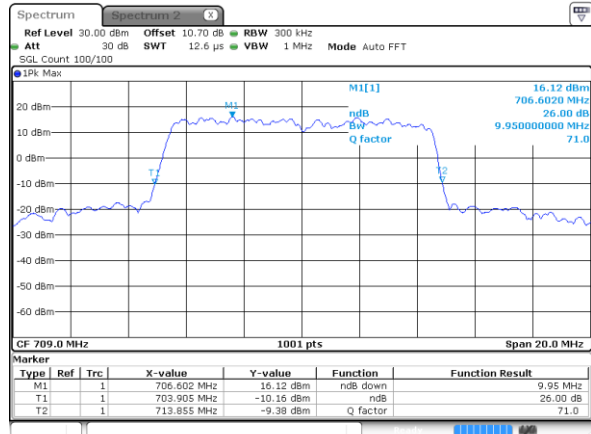


## LTE Band 17

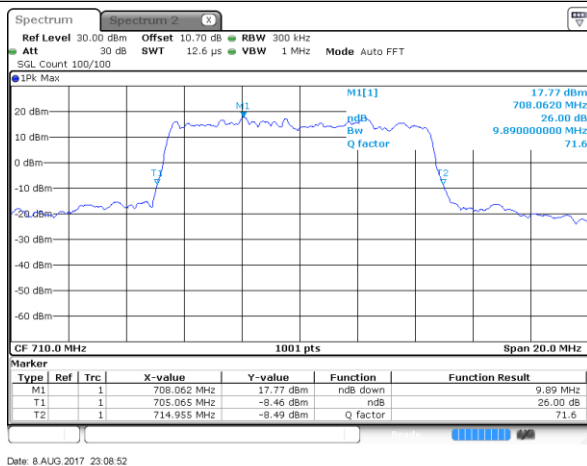
## Lowest Channel / 10MHz / QPSK



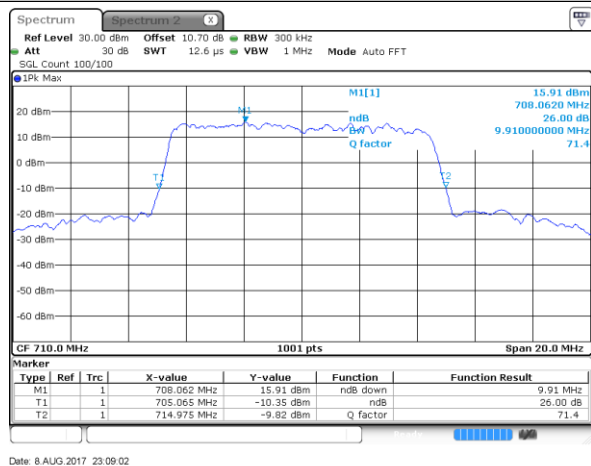
## Lowest Channel / 10MHz / 16QAM



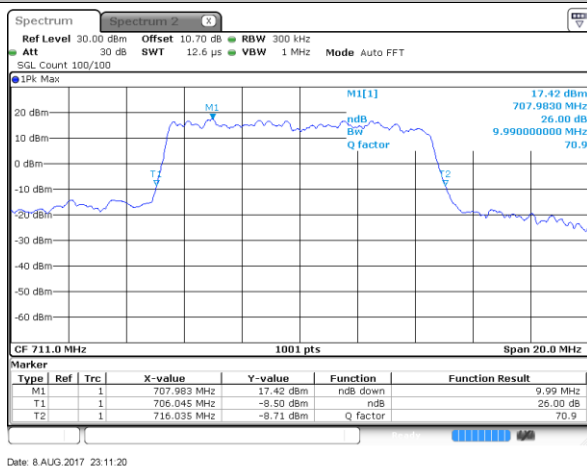
## Middle Channel / 10MHz / QPSK



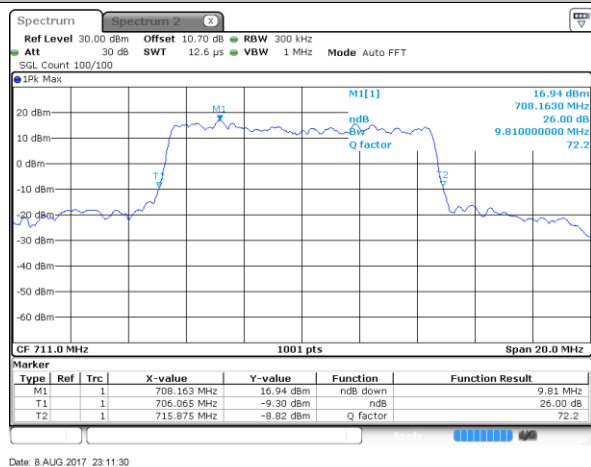
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM



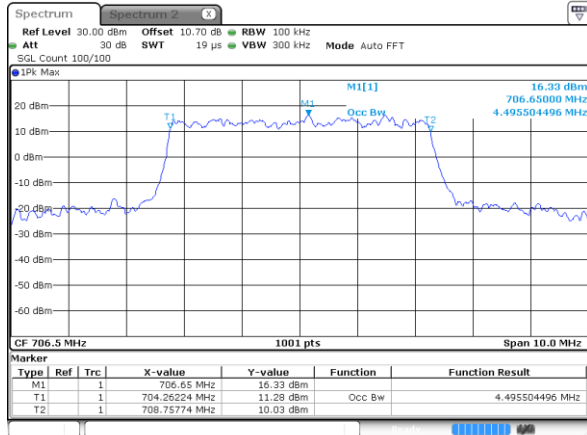
**Occupied Bandwidth**

| Mode       | LTE Band 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  | -                         | -     | -    | -     | 4.5  | 4.49  | 9.11  | 9.07  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.5  | 4.5   | 9.11  | 9.05  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.51 | 4.49  | 8.97  | 9.09  | -     | -     | -     | -     |



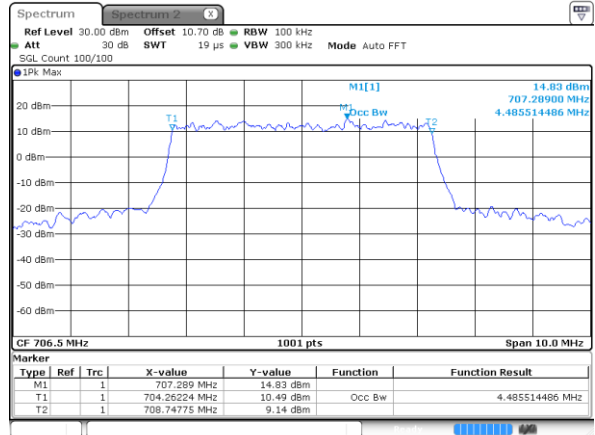
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



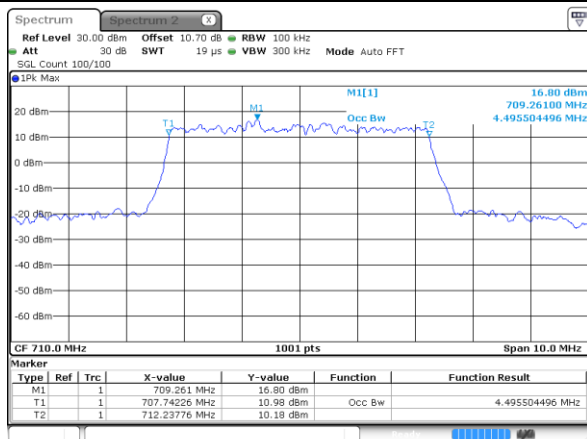
Date: 8 AUG 2017 22:44:58

## Lowest Channel / 5MHz / 16QAM



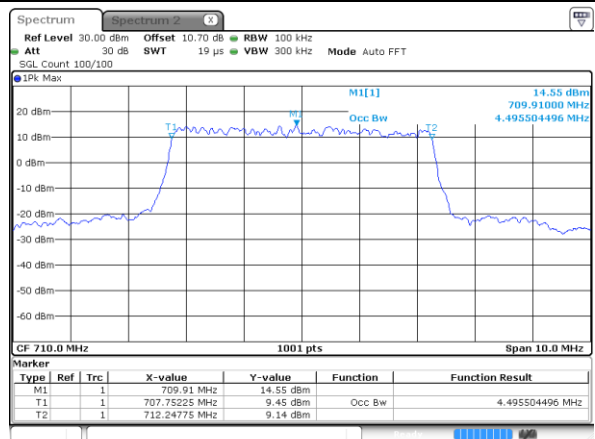
Date: 8 AUG 2017 22:45:08

## Middle Channel / 5MHz / QPSK



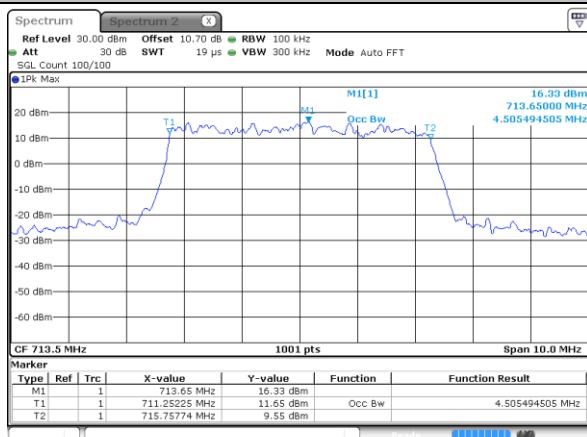
Date: 8 AUG 2017 22:52:00

## Middle Channel / 5MHz / 16QAM



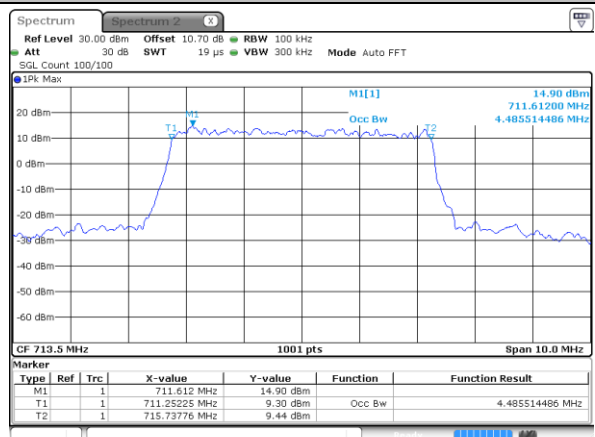
Date: 8 AUG 2017 22:52:10

## Highest Channel / 5MHz / QPSK



Date: 8 AUG 2017 22:54:28

## Highest Channel / 5MHz / 16QAM

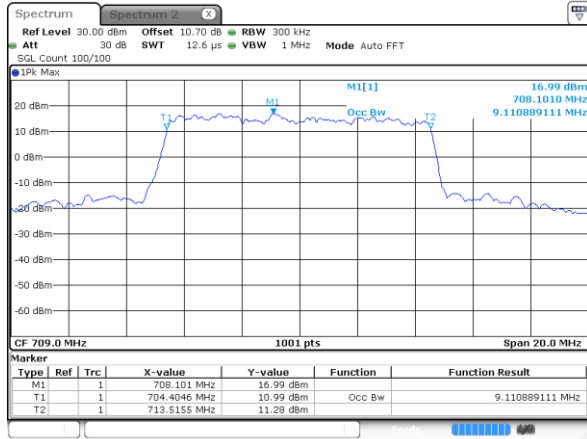


Date: 8 AUG 2017 22:54:38

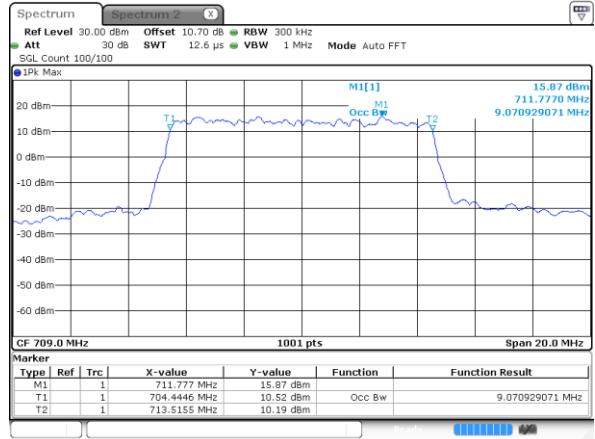


## LTE Band 17

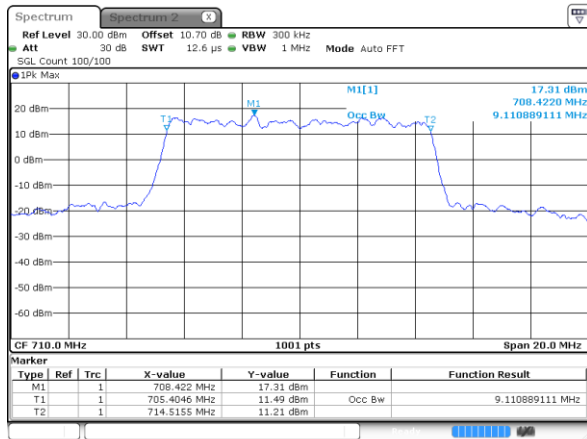
## Lowest Channel / 10MHz / QPSK



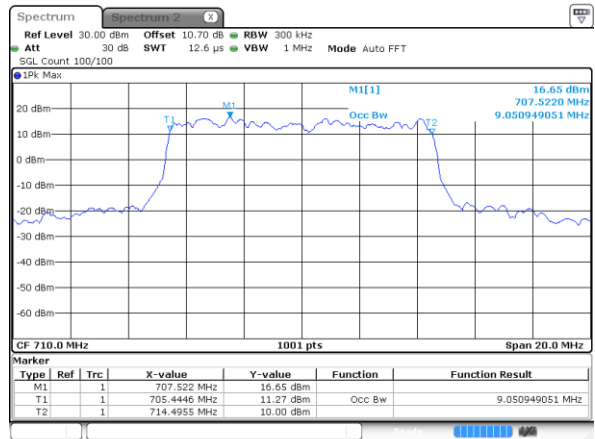
## Lowest Channel / 10MHz / 16QAM



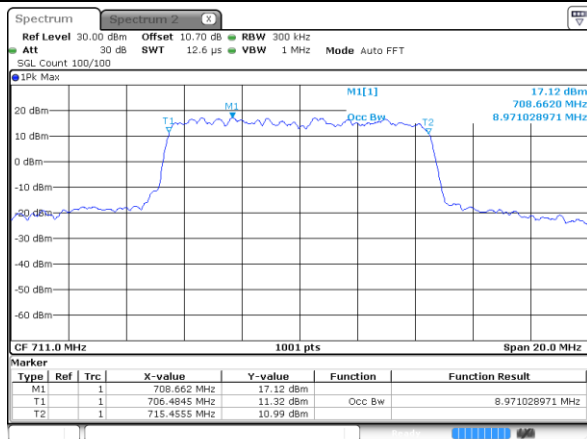
## Middle Channel / 10MHz / QPSK



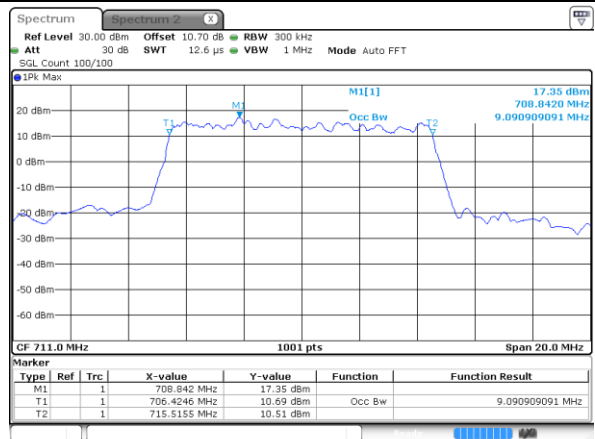
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM



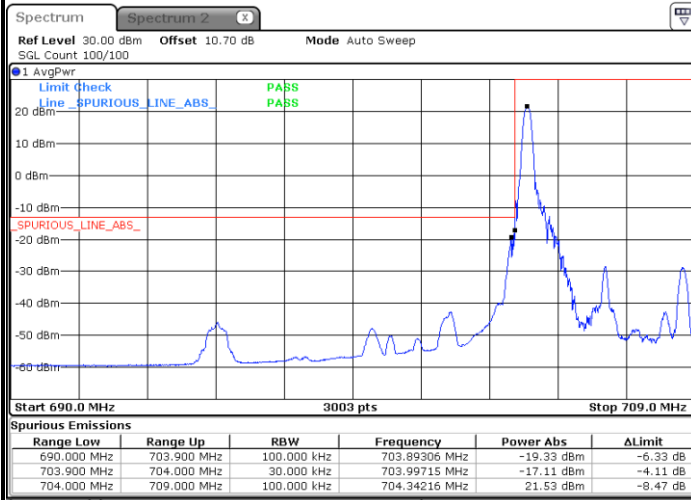


## **Conducted Band Edge**

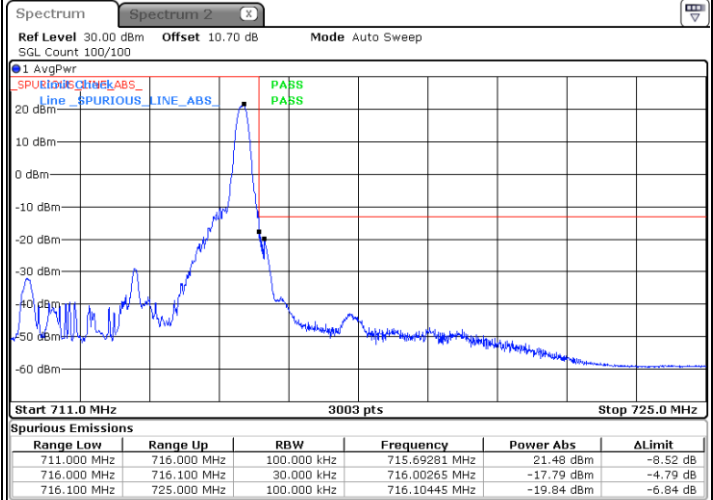


## LTE Band 17 / 5MHz / QPSK

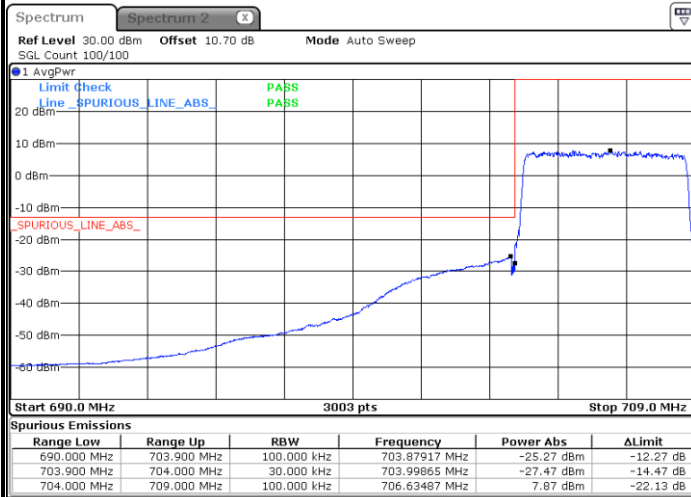
## Lowest Band Edge / 1 RB



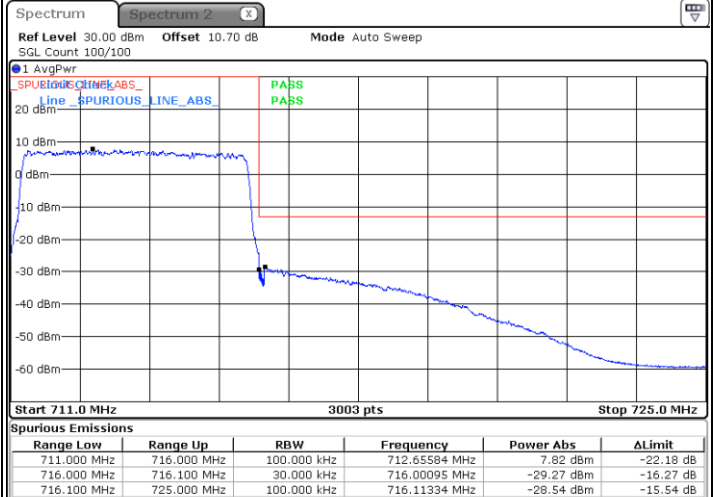
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



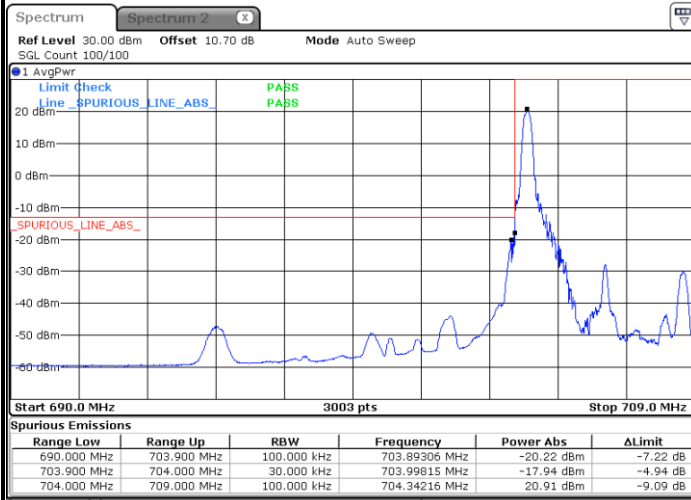
## Highest Band Edge / Full RB



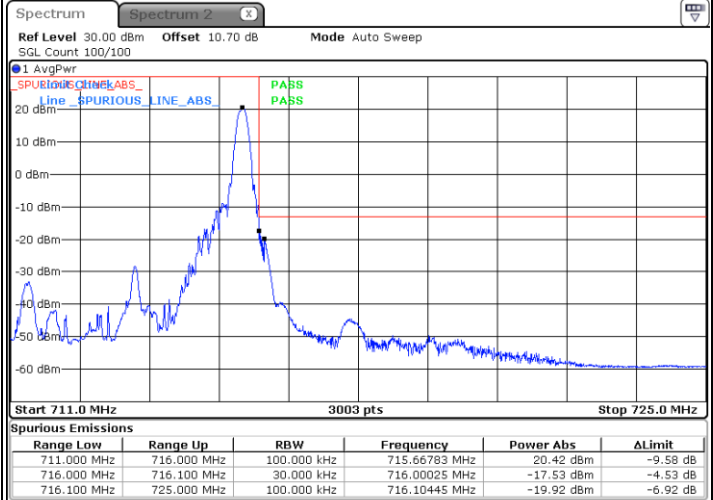


## LTE Band 17 / 5MHz / 16QAM

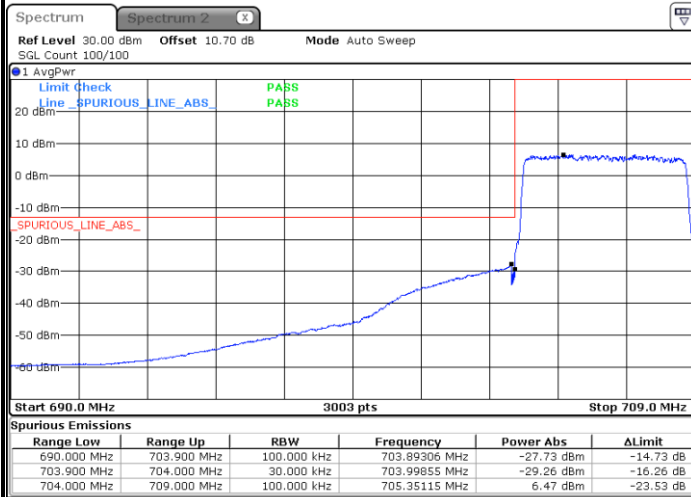
## Lowest Band Edge / 1 RB



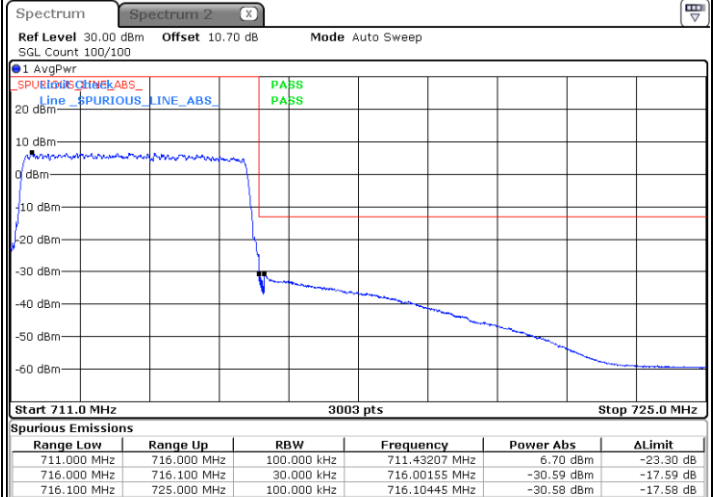
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



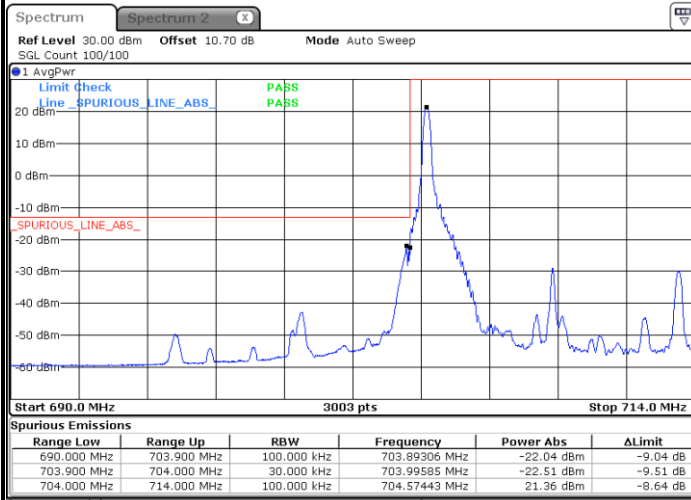
## Highest Band Edge / Full RB



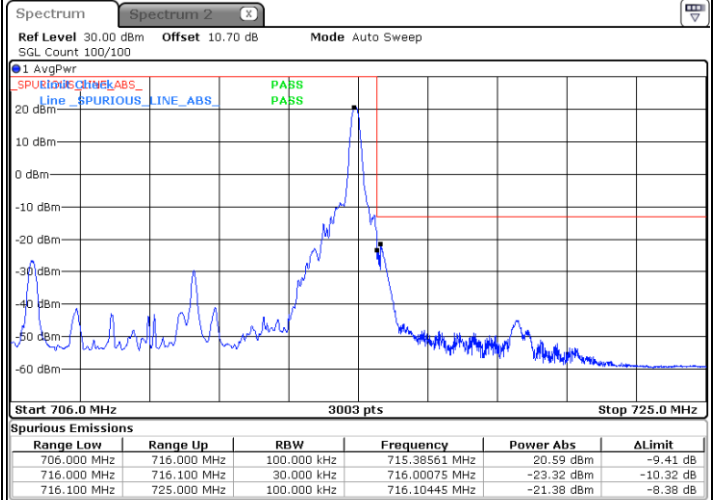


## LTE Band 17 / 10MHz / QPSK

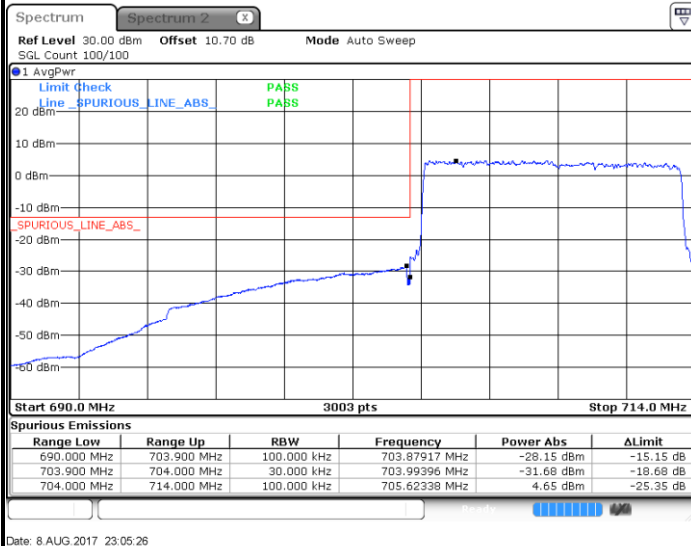
## Lowest Band Edge / 1 RB



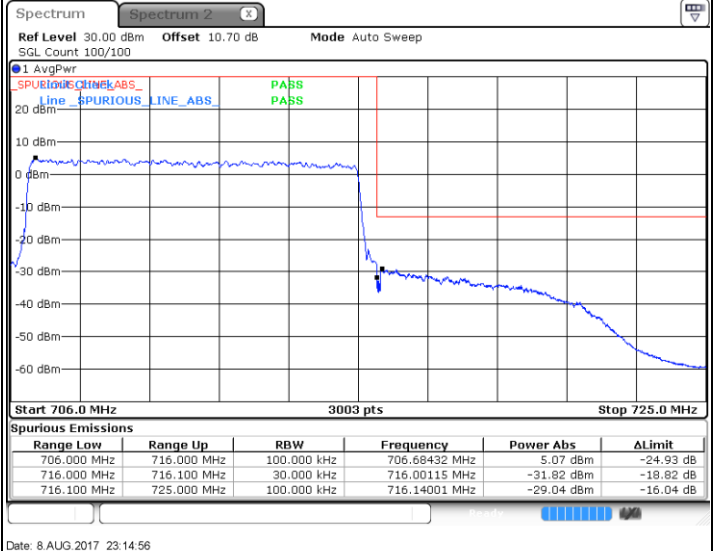
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



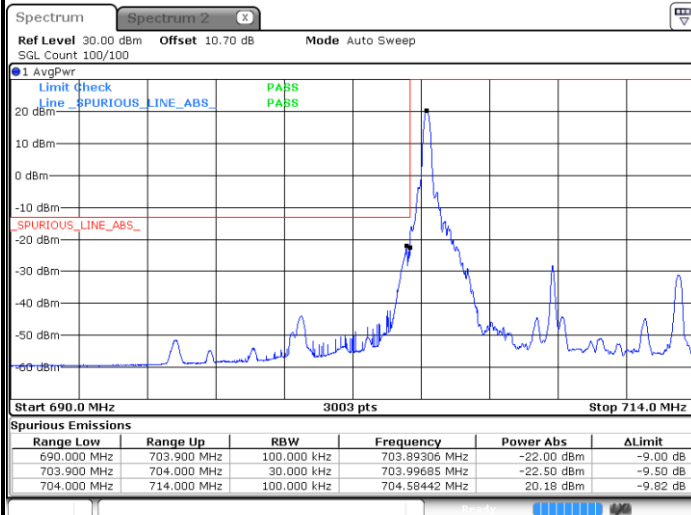
## Highest Band Edge / Full RB



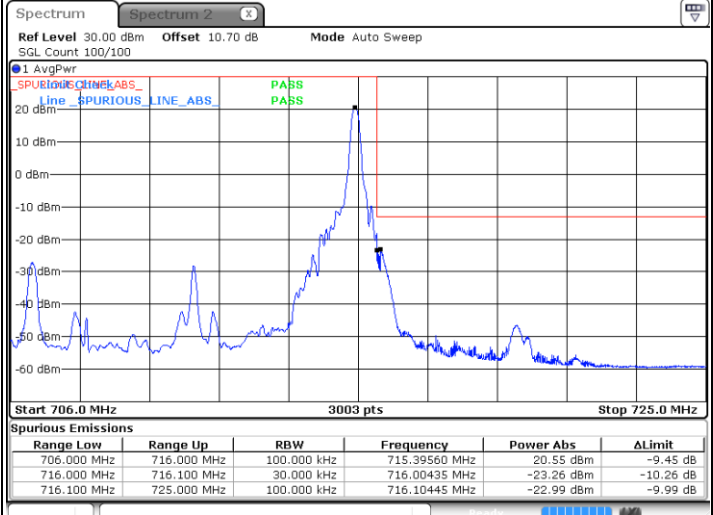


## LTE Band 17 / 10MHz / 16QAM

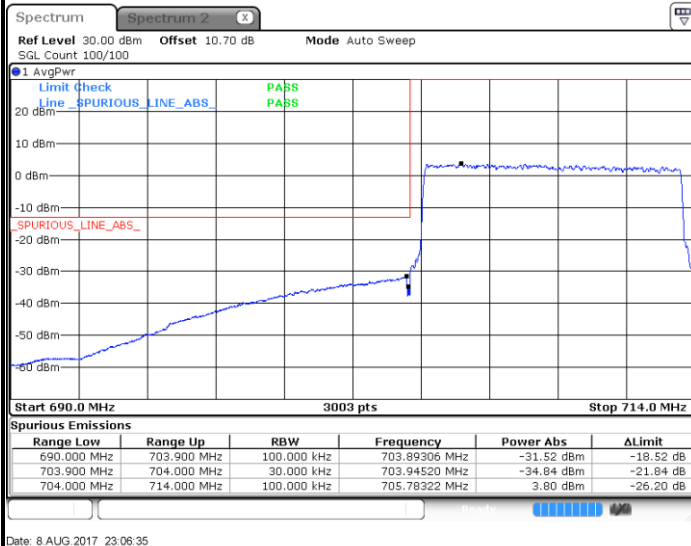
## Lowest Band Edge / 1 RB



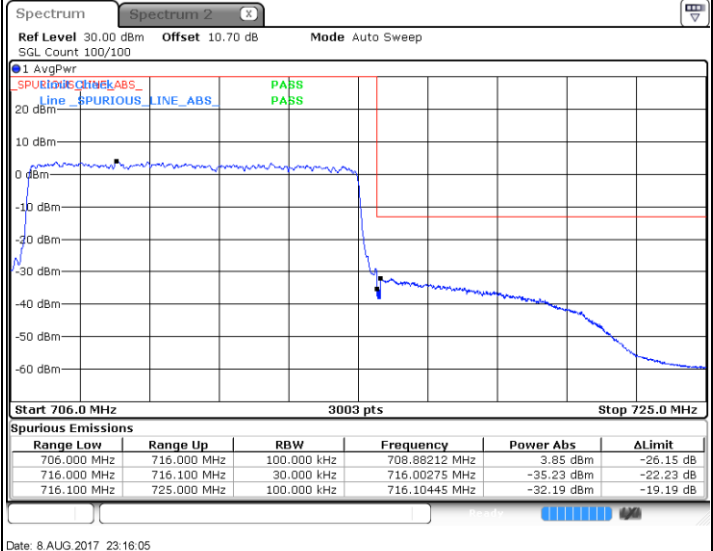
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



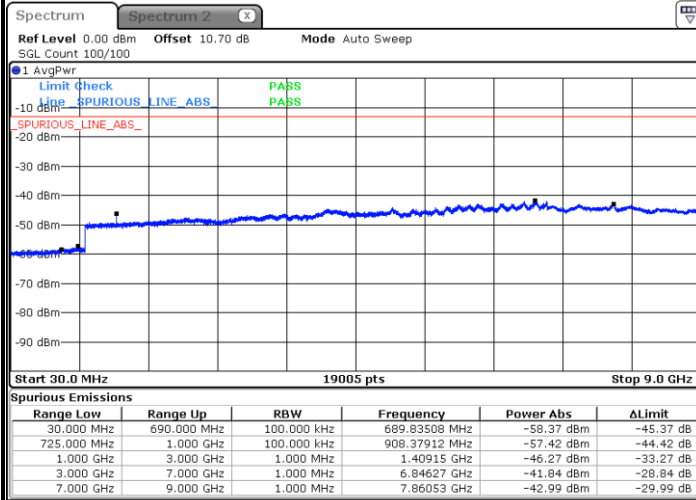


## **Conducted Spurious Emission**



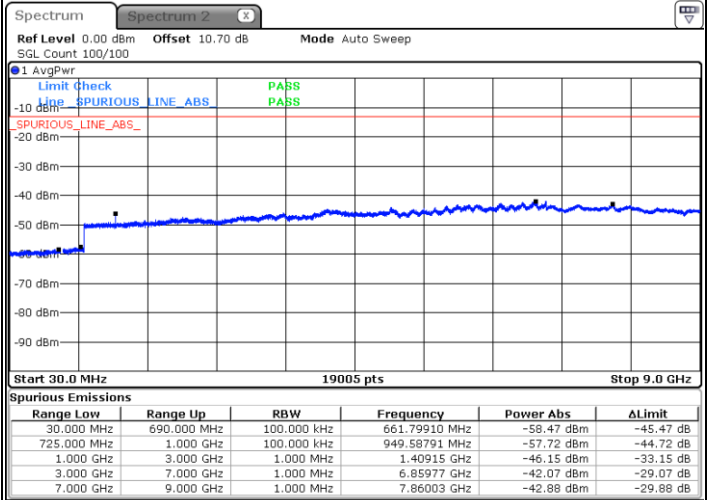
## LTE Band 17 / 5MHz

## Lowest Channel / QPSK



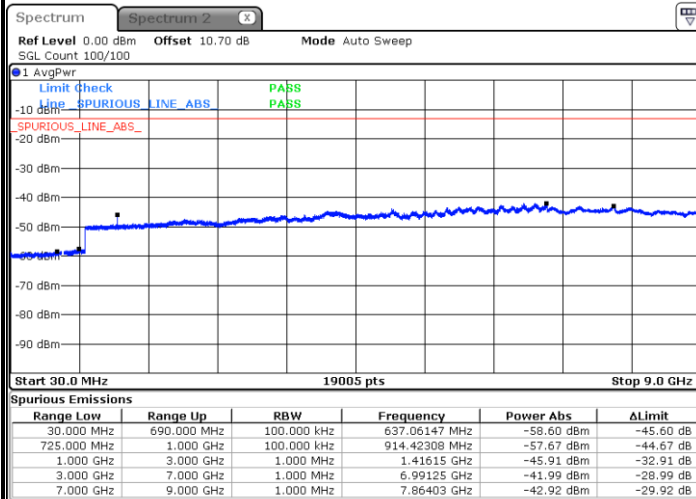
Date: 8 AUG 2017 22:50:56

## Lowest Channel / 16QAM



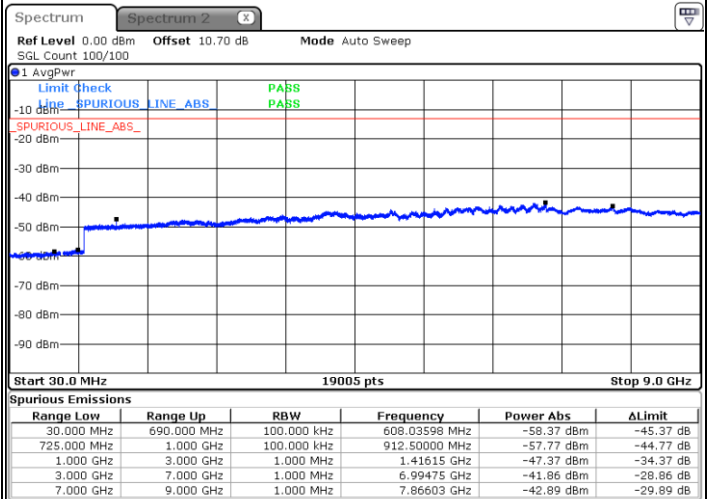
Date: 8 AUG 2017 22:51:50

## Middle Channel / QPSK



Date: 8 AUG 2017 22:53:24

## Middle Channel / 16QAM

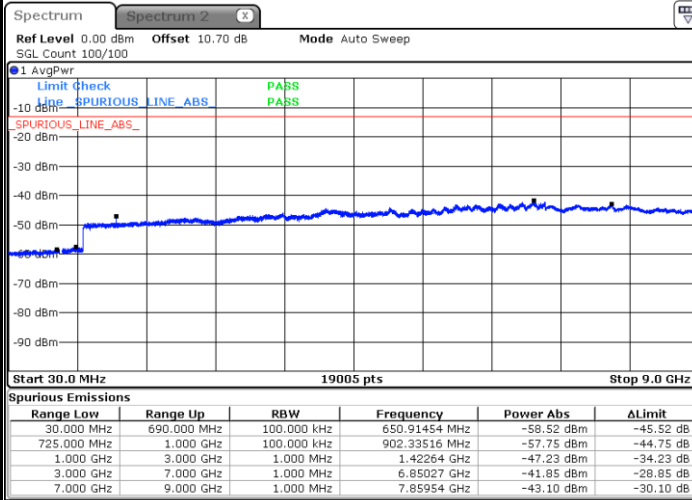


Date: 8 AUG 2017 22:54:18



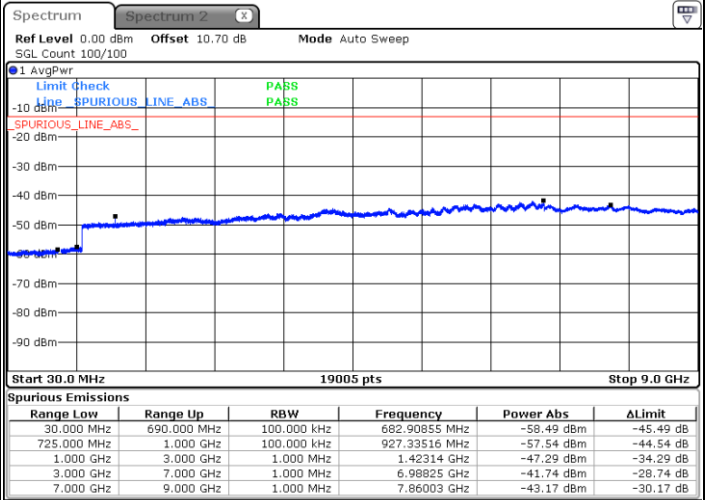
## LTE Band 17 / 5MHz

## Highest Channel / QPSK



Date: 8 AUG 2017 23:00:27

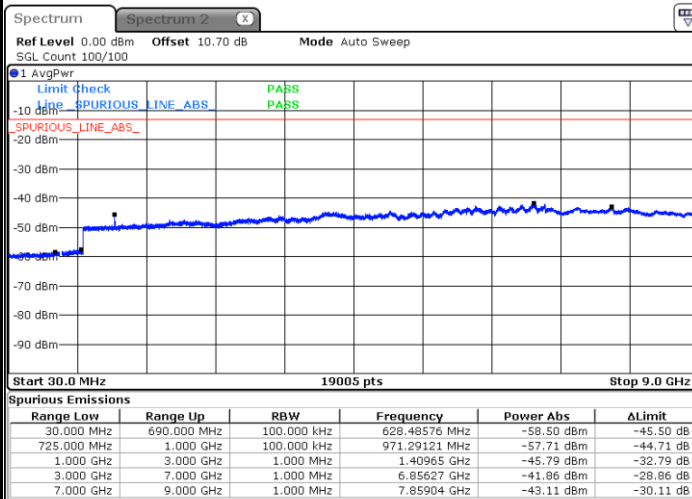
## Highest Channel / 16QAM



Date: 8 AUG 2017 23:01:20

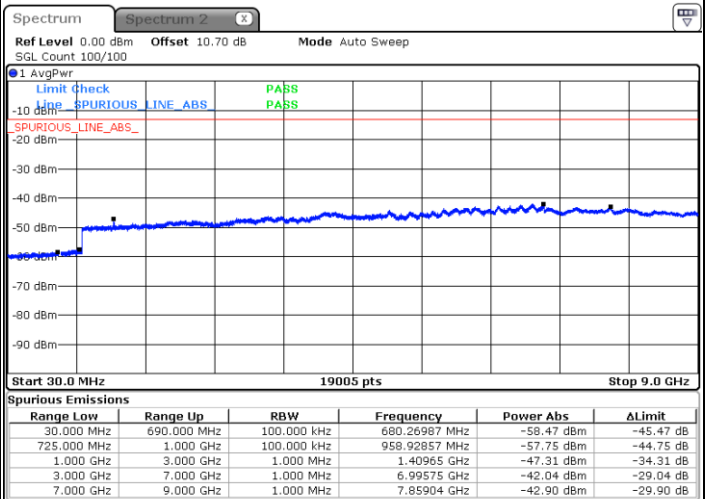
## LTE Band 17 / 10MHz

## Lowest Channel / QPSK



Date: 8 AUG 2017 23:07:29

## Lowest Channel / 16QAM

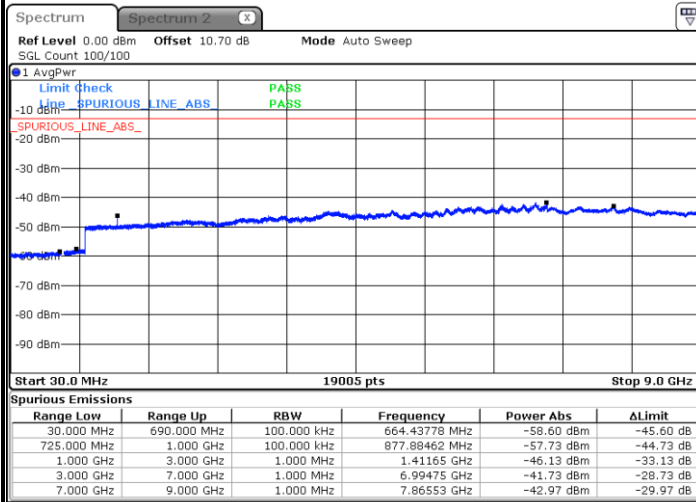


Date: 8 AUG 2017 23:08:23



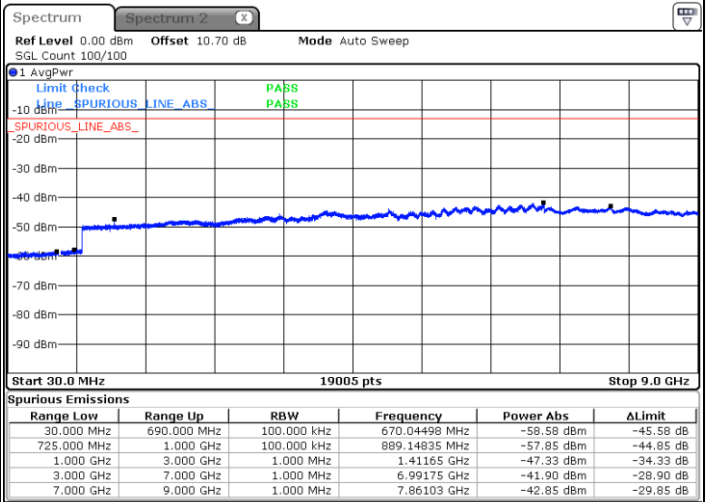
## LTE Band 17 / 10MHz

## Middle Channel / QPSK



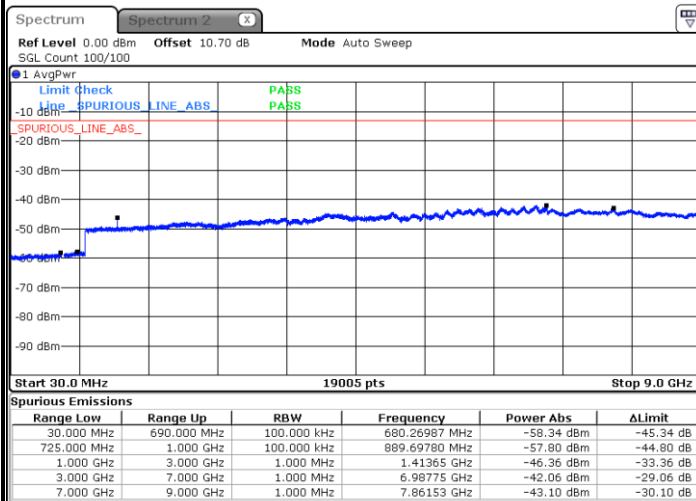
Date: 8 AUG 2017 23:09:56

## Middle Channel / 16QAM



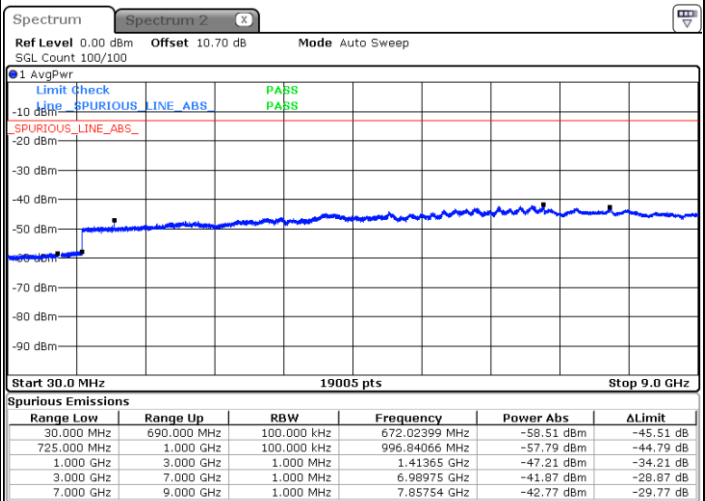
Date: 8 AUG 2017 23:10:50

## Highest Channel / QPSK



Date: 8 AUG 2017 23:33:32

## Highest Channel / 16QAM



Date: 8 AUG 2017 23:34:26

## Frequency Stability

| Test Conditions  |                   | LTE Band 17 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0031                              | PASS    |
| 40               | Normal Voltage    | 0.0083                              |         |
| 30               | Normal Voltage    | 0.0028                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0038                              |         |
| 0                | Normal Voltage    | 0.0093                              |         |
| -10              | Normal Voltage    | 0.0000                              |         |
| -20              | Normal Voltage    | 0.0094                              |         |
| -30              | Normal Voltage    | 0.0037                              |         |
| 20               | Maximum Voltage   | 0.0008                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0003                              |         |

**Note:**

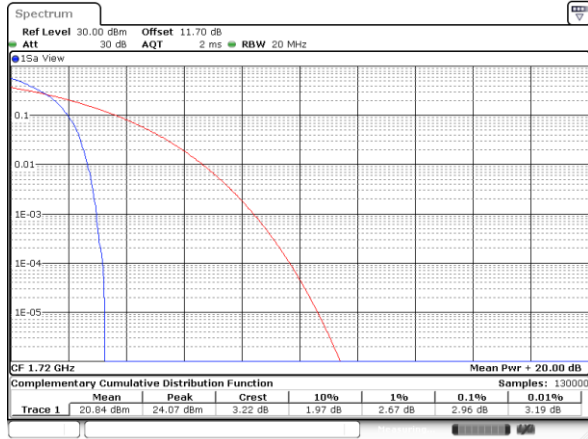
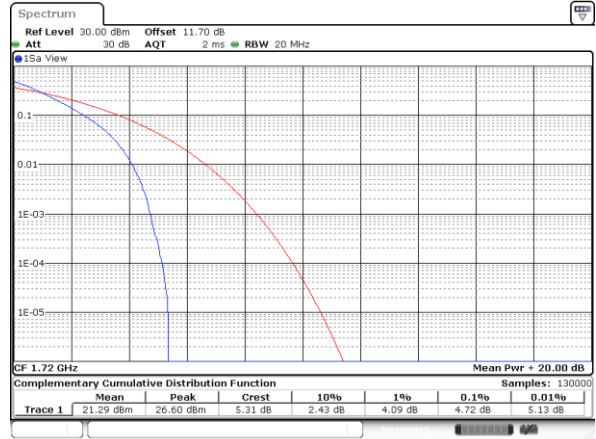
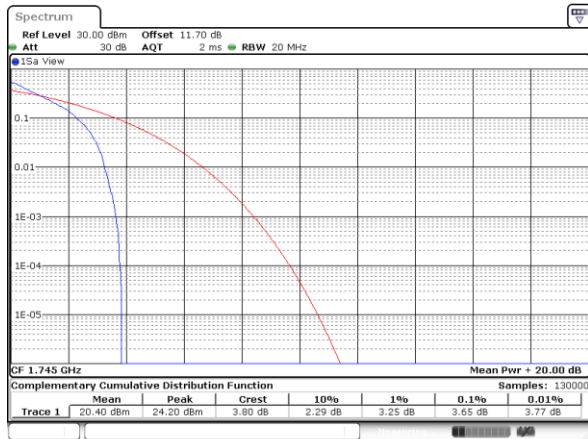
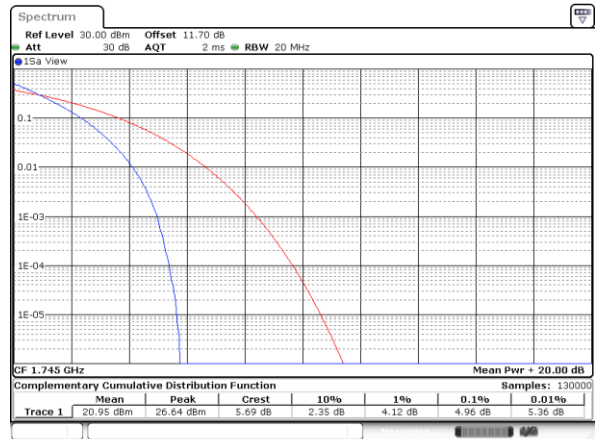
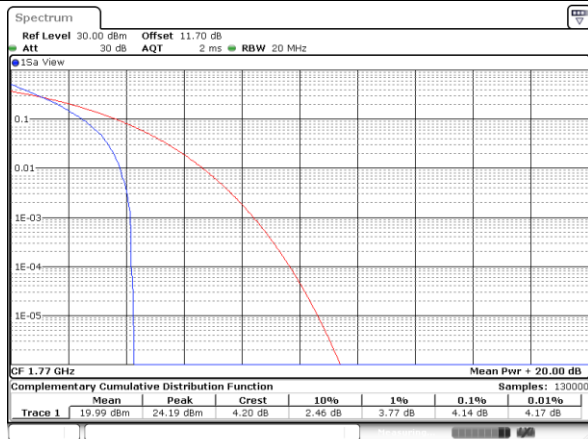
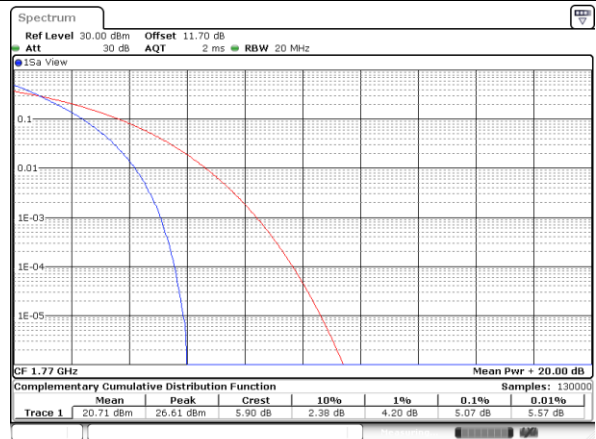
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

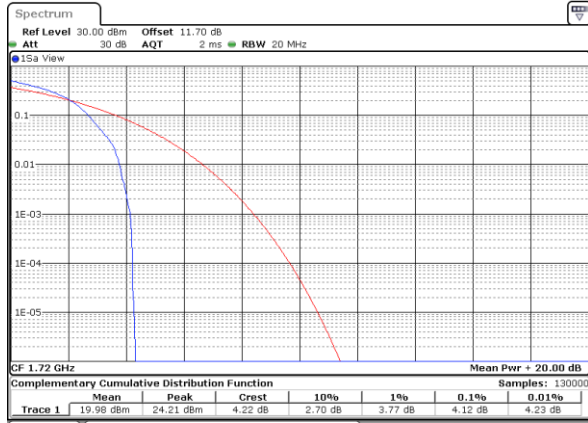


## LTE Band 66

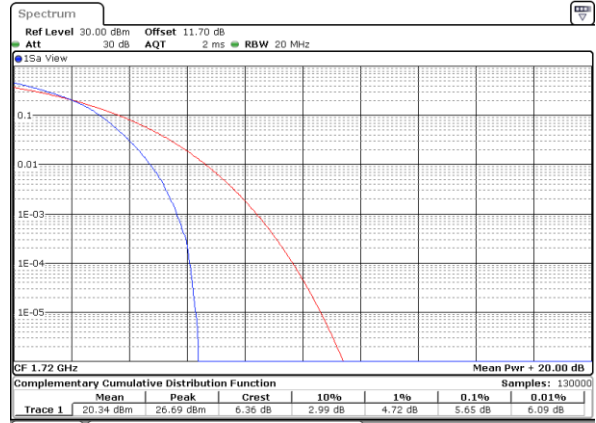
### Peak-to-Average Ratio

| Mode       | LTE Band 66 / 20MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 2.96                | 4.72    | 4.12  | 5.65    | PASS        |
| Middle CH  | 3.65                | 4.96    | 4.72  | 5.77    |             |
| Highest CH | 4.14                | 5.07    | 5.07  | 6.06    |             |

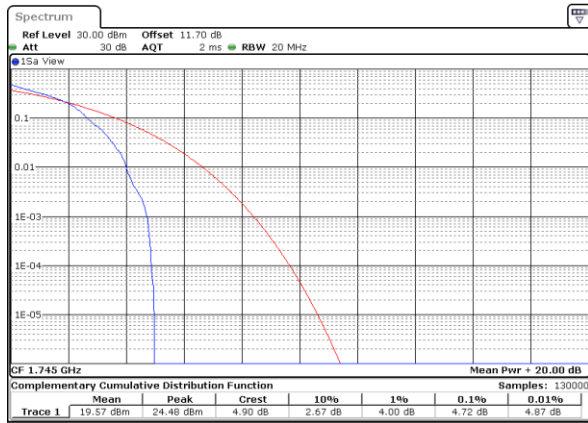
**LTE Band 66 / 20MHz / QPSK**
**Lowest Channel / 1RB**

**Lowest Channel / Full RB**

**Middle Channel / 1RB**

**Middle Channel / Full RB**

**Highest Channel / 1RB**

**Highest Channel / Full RB**


**LTE Band 66 / 20MHz / 16QAM**
**Lowest Channel / 1RB**


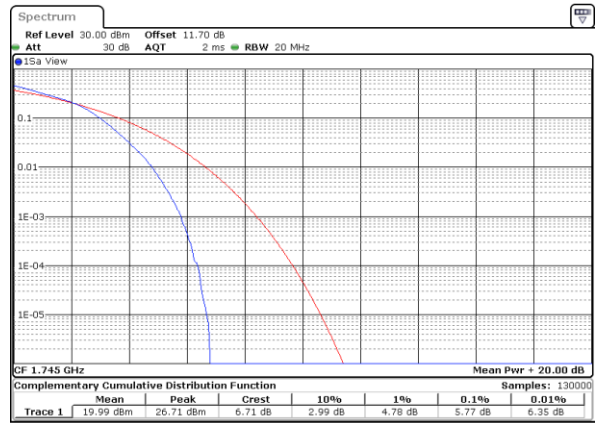
Date: 9 AUG 2017 16:18:47

**Lowest Channel / Full RB**


Date: 9 AUG 2017 16:20:23

**Middle Channel / 1RB**


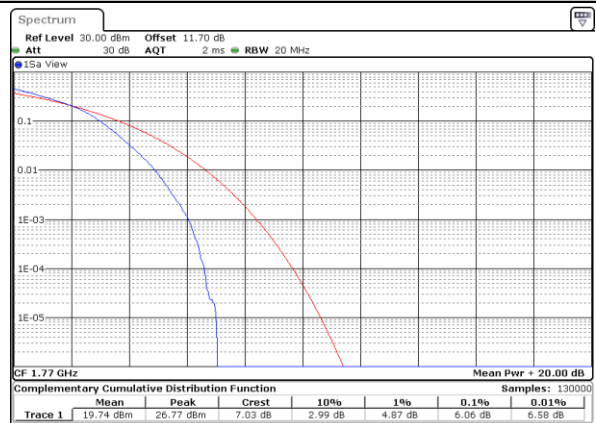
Date: 9 AUG 2017 16:20:48

**Middle Channel / Full RB**


Date: 9 AUG 2017 16:23:59

**Highest Channel / 1RB**


Date: 9 AUG 2017 16:24:54

**Highest Channel / Full RB**


Date: 9 AUG 2017 16:25:10



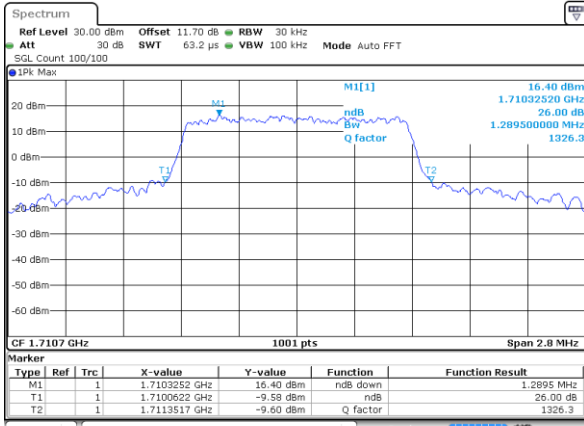
**26dB Bandwidth**

| Mode       | LTE Band 66 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                     |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                       | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.29                       | 1.26  | 2.96 | 3.05  | 4.95 | 4.98  | 9.91  | 9.85  | 14.30 | 14.48 | 20.14 | 20.14 |
| Middle CH  | 1.22                       | 1.26  | 2.95 | 2.99  | 4.83 | 4.94  | 9.83  | 10.05 | 14.75 | 14.60 | 20.46 | 20.22 |
| Highest CH | 1.25                       | 1.27  | 2.96 | 3.06  | 5.01 | 4.96  | 9.89  | 9.83  | 14.45 | 14.48 | 20.46 | 20.10 |



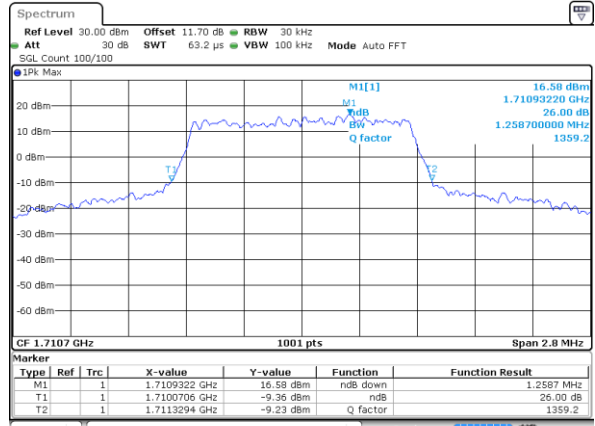
## LTE Band 66

## Lowest Channel / 1.4MHz / QPSK



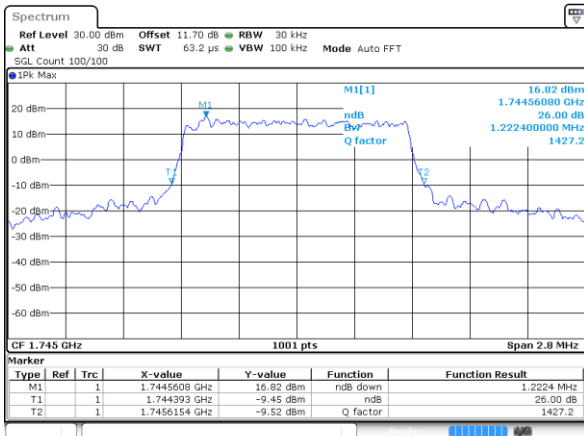
Date: 9 AUG 2017 14:29:25

## Lowest Channel / 1.4MHz / 16QAM



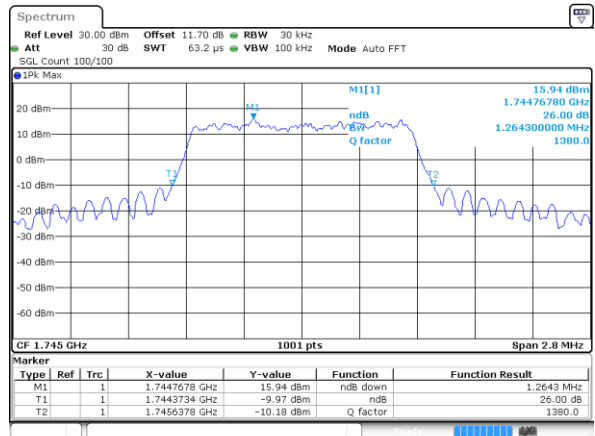
Date: 9 AUG 2017 14:29:35

## Middle Channel / 1.4MHz / QPSK



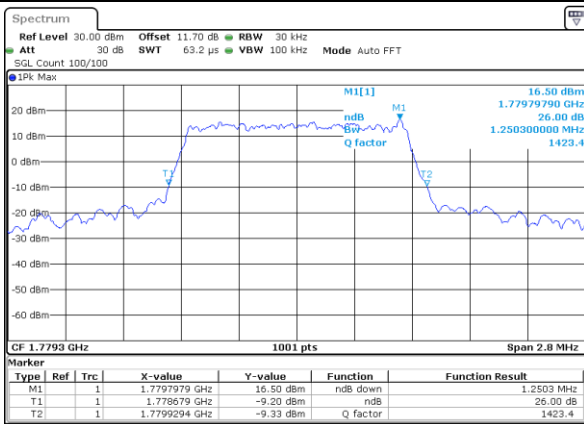
Date: 9 AUG 2017 14:36:29

## Middle Channel / 1.4MHz / 16QAM



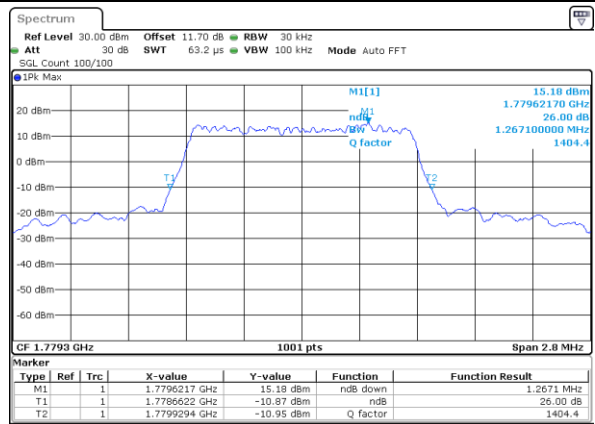
Date: 9 AUG 2017 14:36:39

## Highest Channel / 1.4MHz / QPSK



Date: 9 AUG 2017 14:38:59

## Highest Channel / 1.4MHz / 16QAM

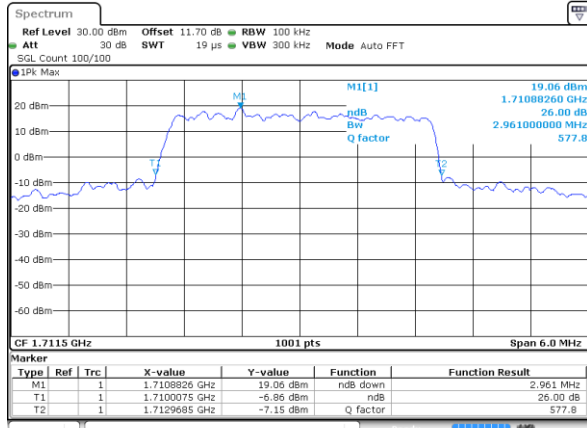


Date: 9 AUG 2017 14:39:09

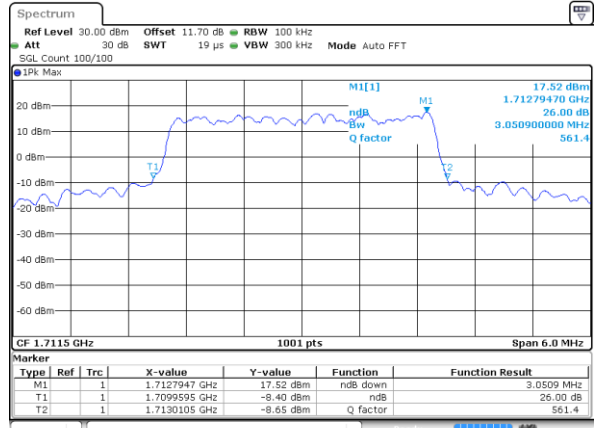


## LTE Band 66

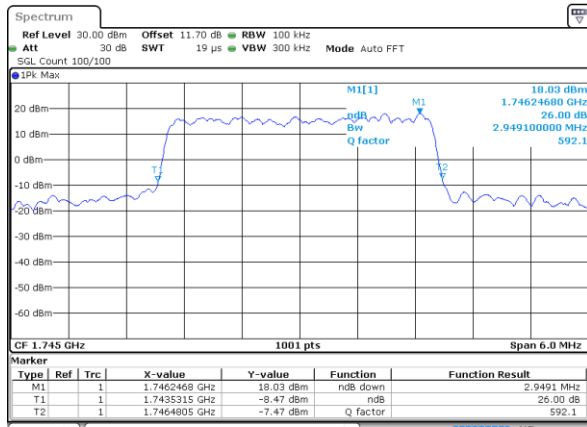
## Lowest Channel / 3MHz / QPSK



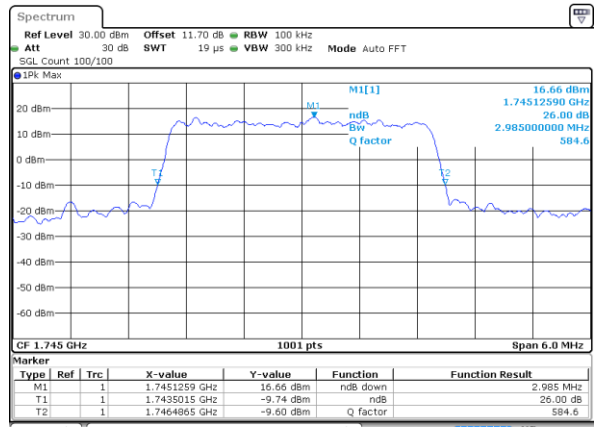
## Lowest Channel / 3MHz / 16QAM



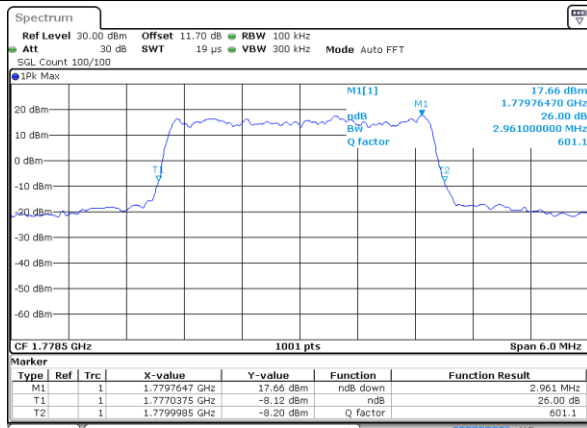
## Middle Channel / 3MHz / QPSK



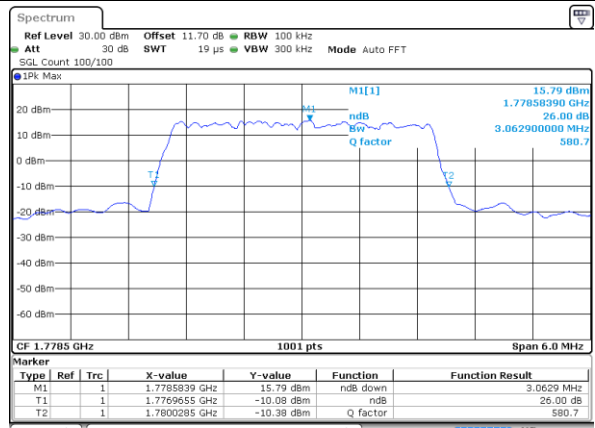
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



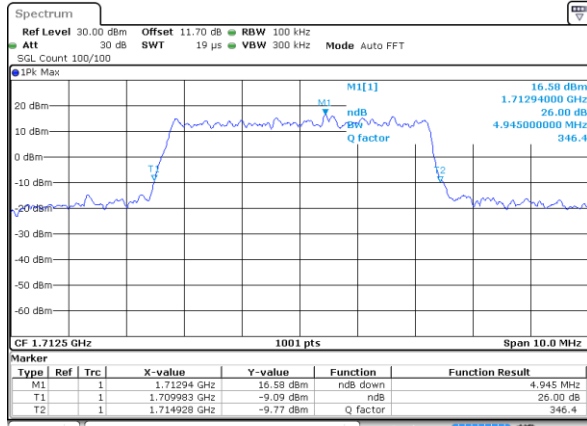
## Highest Channel / 3MHz / 16QAM





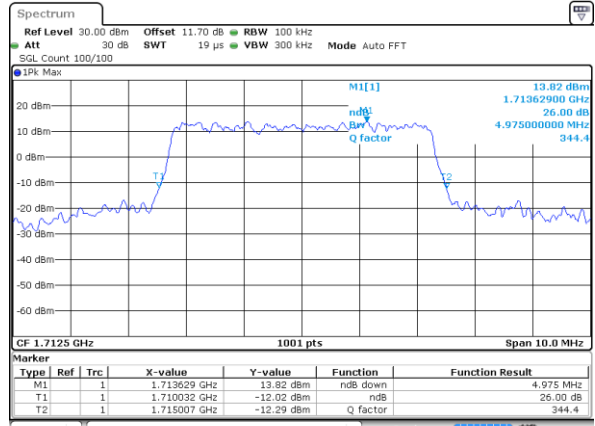
## LTE Band 66

## Lowest Channel / 5MHz / QPSK



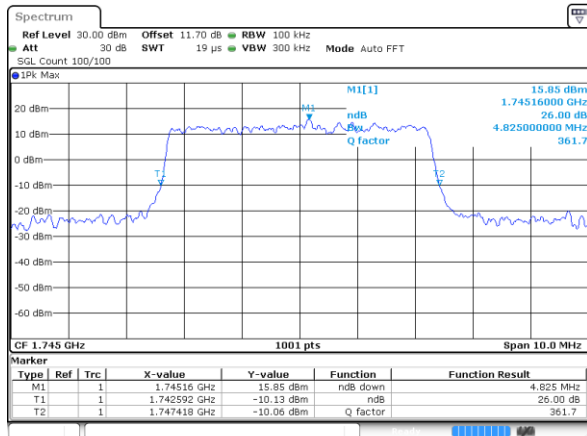
Date: 9 AUG 2017 15:02:40

## Lowest Channel / 5MHz / 16QAM



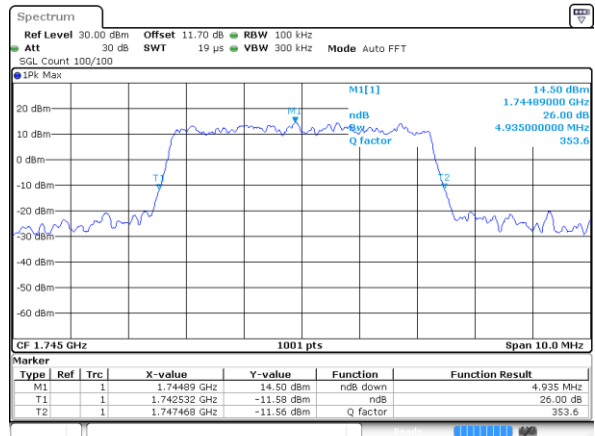
Date: 9 AUG 2017 15:02:50

## Middle Channel / 5MHz / QPSK



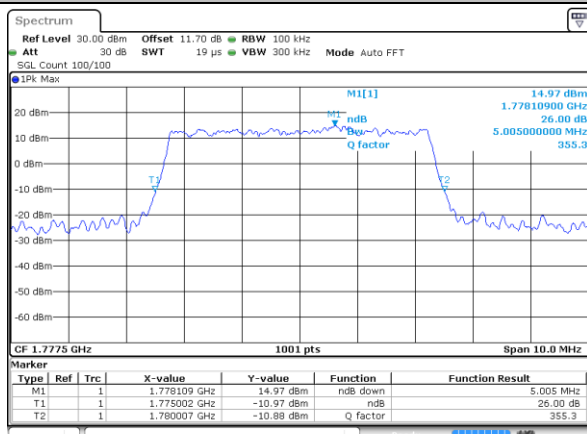
Date: 9 AUG 2017 15:09:44

## Middle Channel / 5MHz / 16QAM



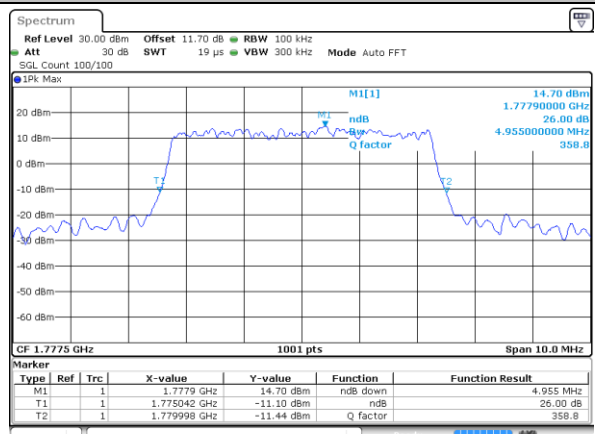
Date: 9 AUG 2017 15:09:54

## Highest Channel / 5MHz / QPSK



Date: 9 AUG 2017 15:12:13

## Highest Channel / 5MHz / 16QAM

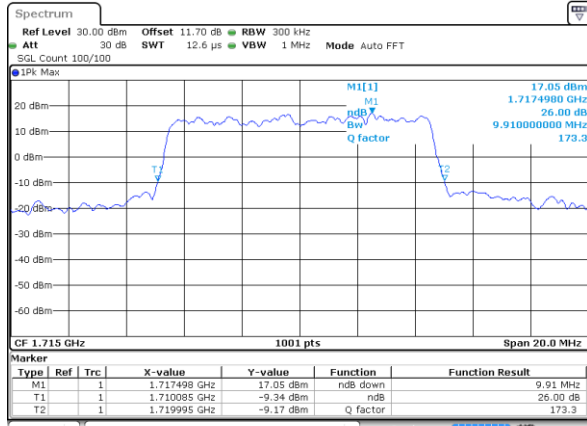


Date: 9 AUG 2017 15:12:23



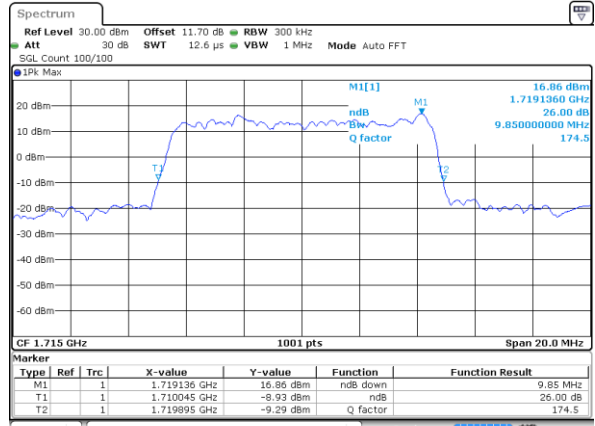
## LTE Band 66

## Lowest Channel / 10MHz / QPSK



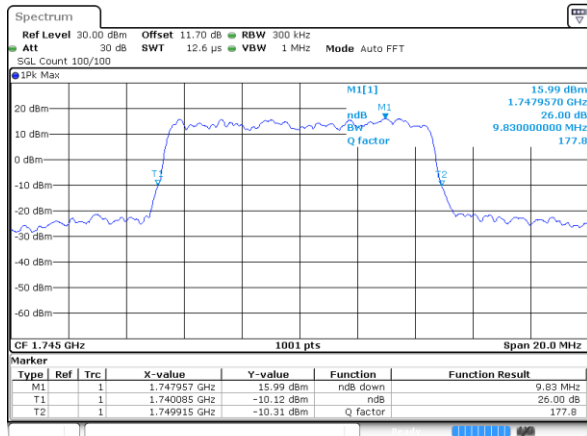
Date: 9 AUG 2017 15:19:17

## Lowest Channel / 10MHz / 16QAM



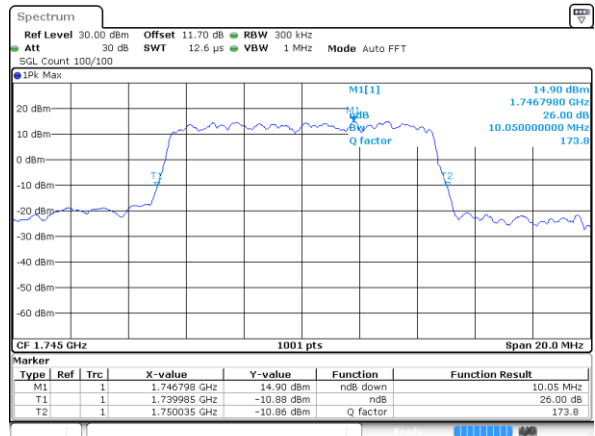
Date: 9 AUG 2017 15:19:27

## Middle Channel / 10MHz / QPSK



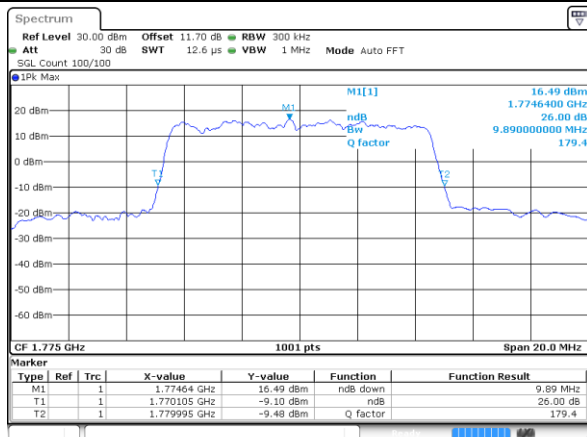
Date: 9 AUG 2017 15:26:21

## Middle Channel / 10MHz / 16QAM



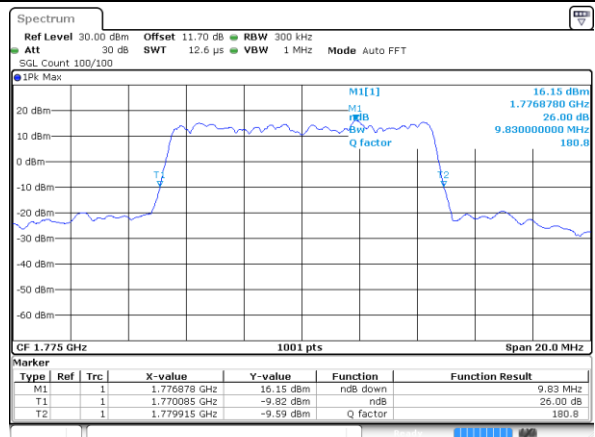
Date: 9 AUG 2017 15:26:31

## Highest Channel / 10MHz / QPSK



Date: 9 AUG 2017 15:28:51

## Highest Channel / 10MHz / 16QAM

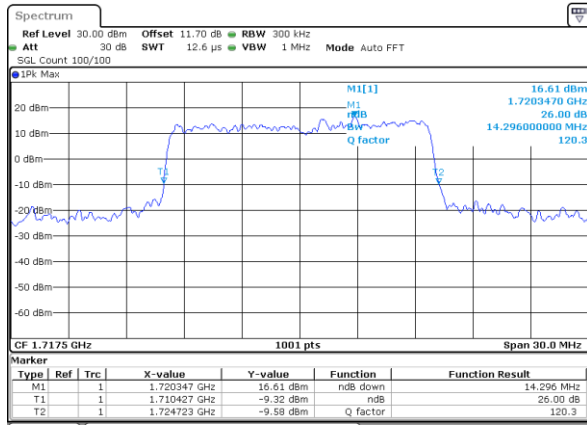


Date: 9 AUG 2017 15:29:01

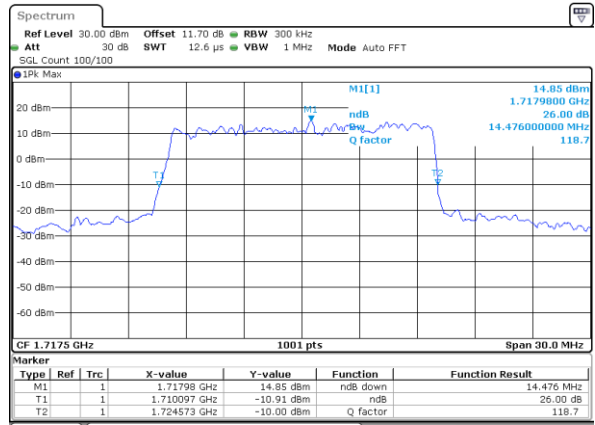


## LTE Band 66

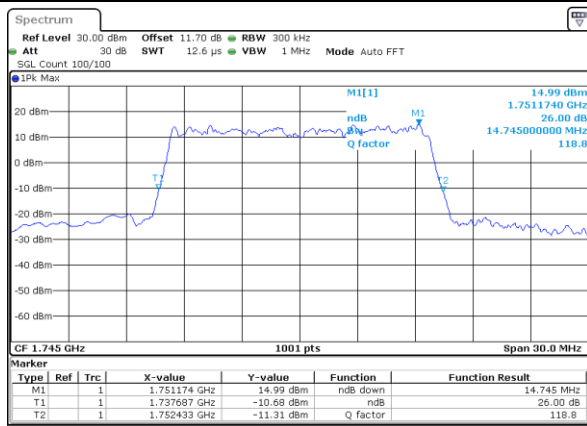
## Lowest Channel / 15MHz / QPSK



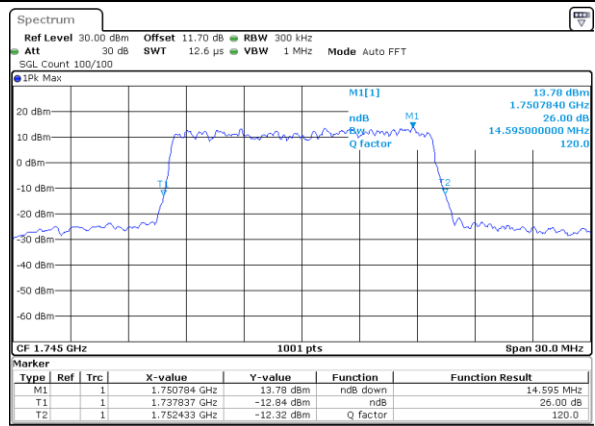
## Lowest Channel / 15MHz / 16QAM



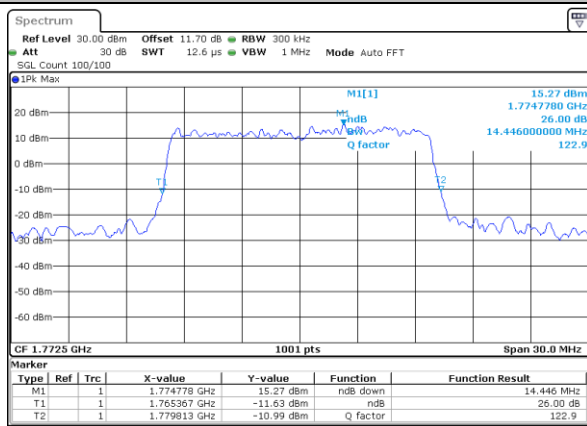
## Middle Channel / 15MHz / QPSK



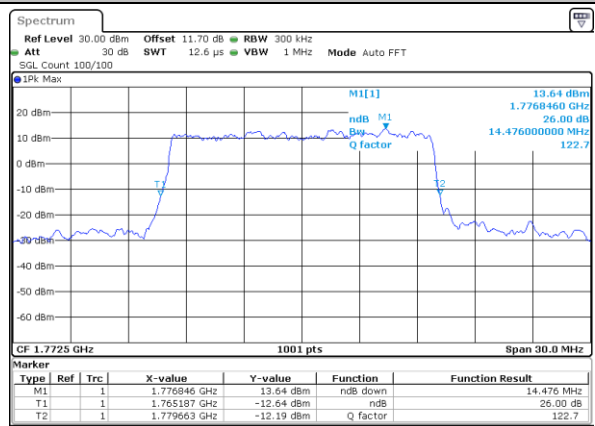
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



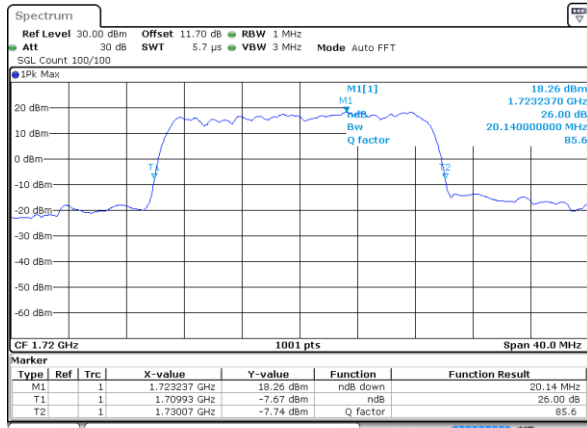
## Highest Channel / 15MHz / 16QAM



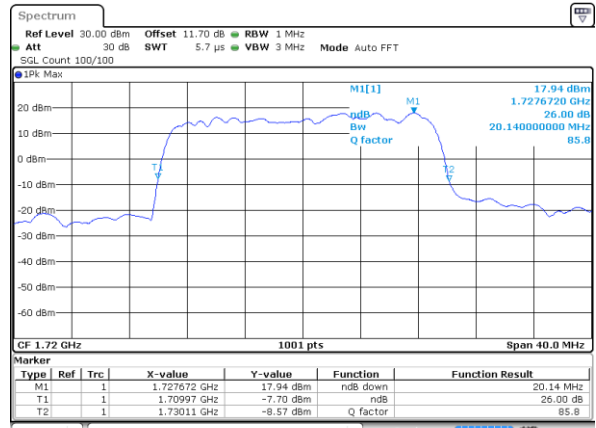


## LTE Band 66

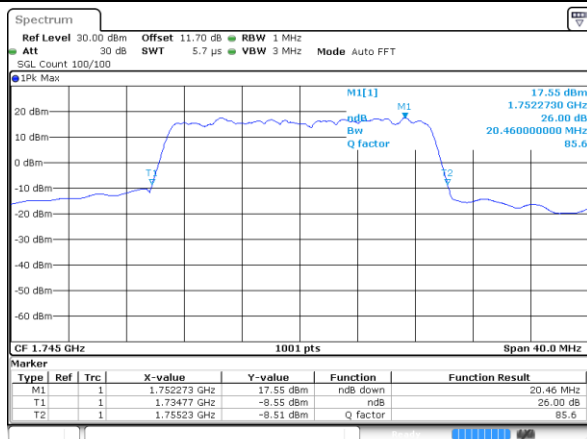
## Lowest Channel / 20MHz / QPSK



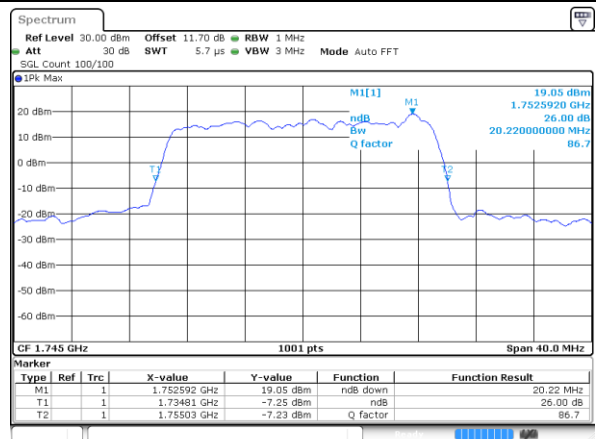
## Lowest Channel / 20MHz / 16QAM



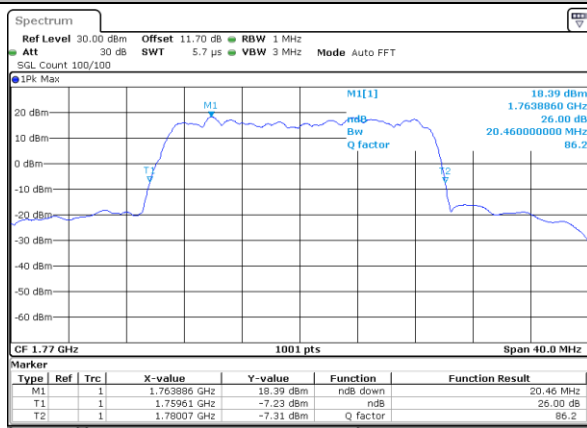
## Middle Channel / 20MHz / QPSK



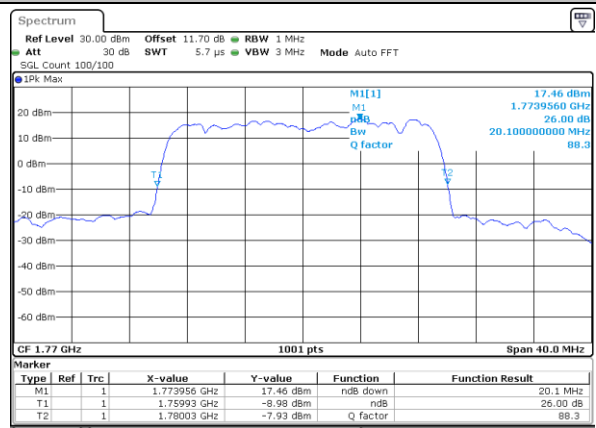
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





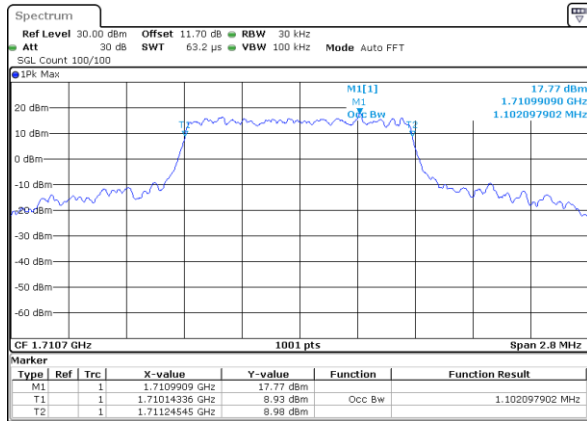
## Occupied Bandwidth

| Mode       | LTE Band 66 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.1                       | 1.1   | 2.75 | 2.73  | 4.48 | 4.48  | 9.05  | 9.05  | 13.46 | 13.52 | 18.46 | 18.26 |
| Middle CH  | 1.1                       | 1.1   | 2.72 | 2.72  | 4.49 | 4.49  | 8.99  | 9.05  | 13.49 | 13.55 | 18.38 | 18.5  |
| Highest CH | 1.1                       | 1.1   | 2.72 | 2.7   | 4.5  | 4.49  | 9.03  | 9.07  | 13.46 | 13.46 | 18.38 | 18.38 |



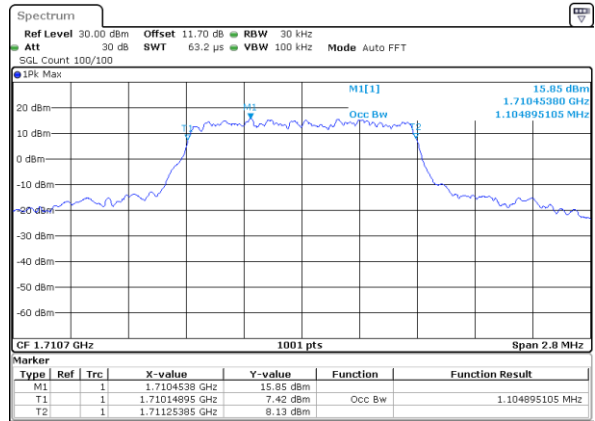
## LTE Band 66

## Lowest Channel / 1.4MHz / QPSK



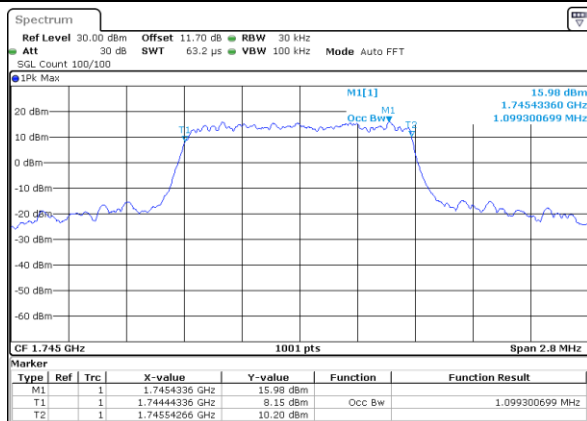
Date: 9 AUG 2017 14:29:05

## Lowest Channel / 1.4MHz / 16QAM



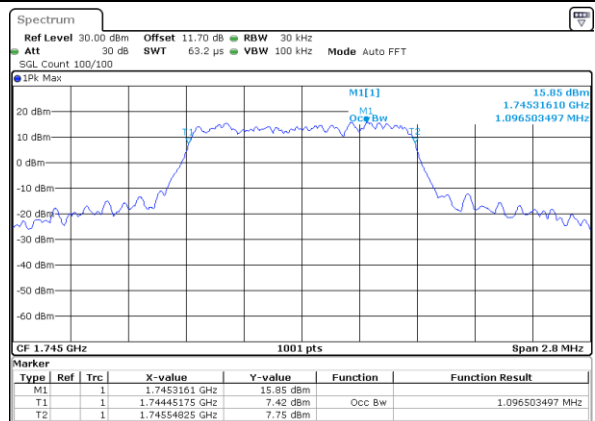
Date: 9 AUG 2017 14:29:15

## Middle Channel / 1.4MHz / QPSK



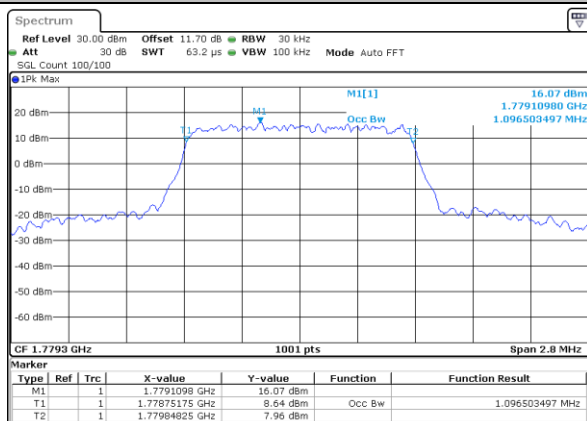
Date: 9 AUG 2017 14:36:09

## Middle Channel / 1.4MHz / 16QAM



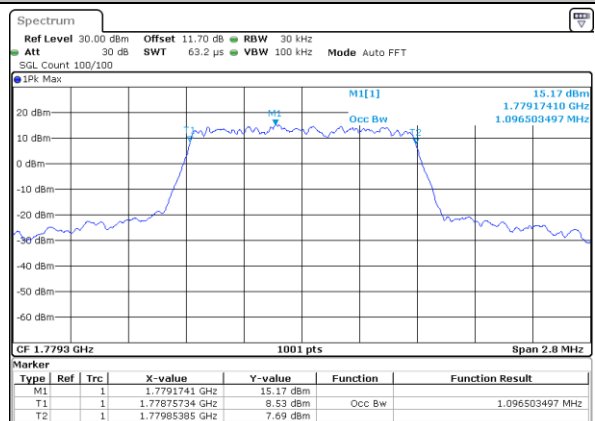
Date: 9 AUG 2017 14:36:19

## Highest Channel / 1.4MHz / QPSK



Date: 9 AUG 2017 14:38:39

## Highest Channel / 1.4MHz / 16QAM

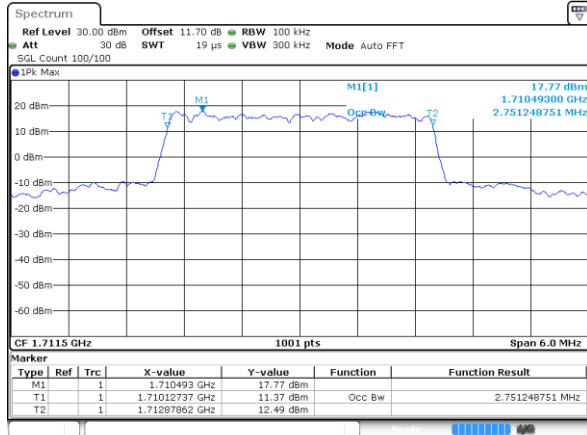


Date: 9 AUG 2017 14:38:49



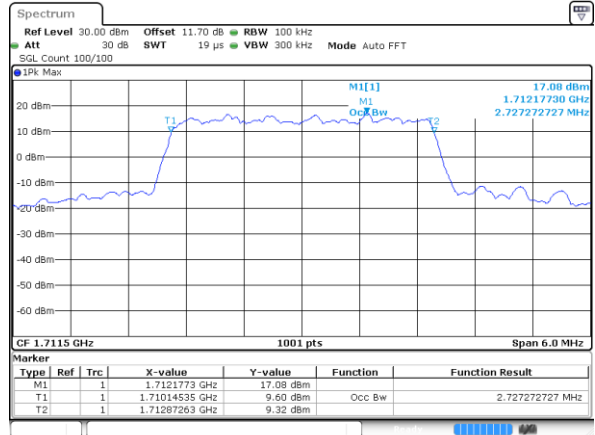
## LTE Band 66

## Lowest Channel / 3MHz / QPSK



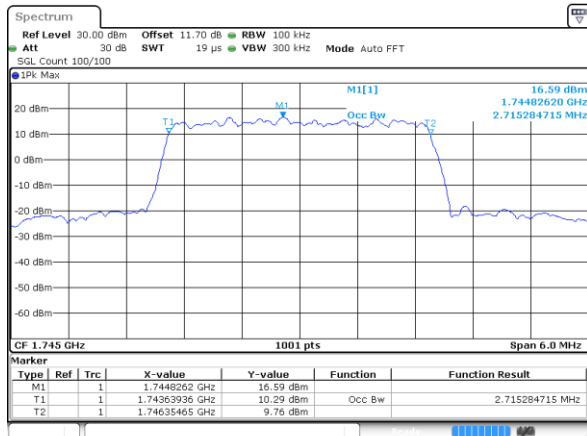
Date: 9 AUG 2017 14:45:42

## Lowest Channel / 3MHz / 16QAM



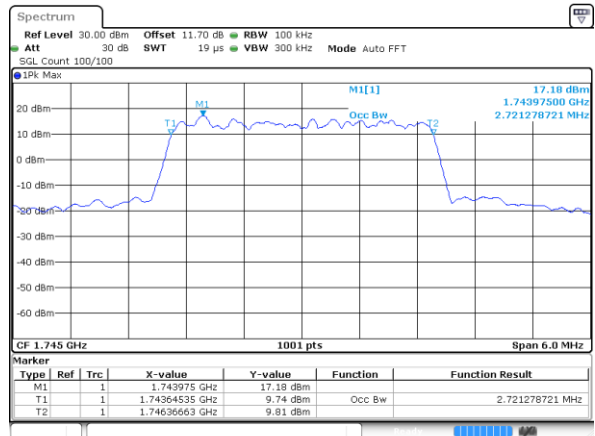
Date: 9 AUG 2017 14:45:52

## Middle Channel / 3MHz / QPSK



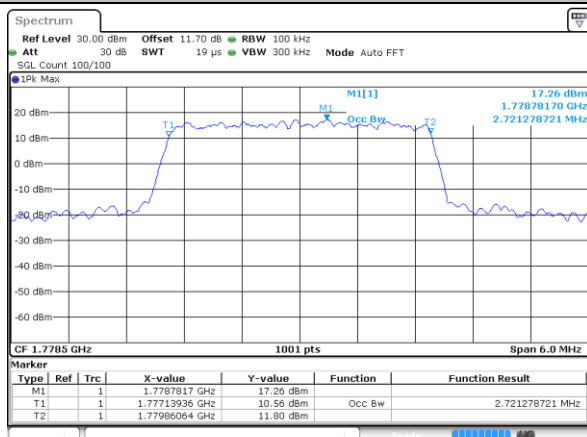
Date: 9 AUG 2017 14:52:47

## Middle Channel / 3MHz / 16QAM



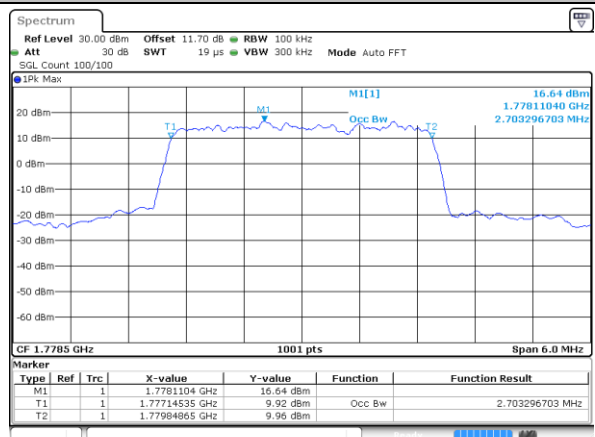
Date: 9 AUG 2017 14:52:57

## Highest Channel / 3MHz / QPSK



Date: 9 AUG 2017 14:55:16

## Highest Channel / 3MHz / 16QAM

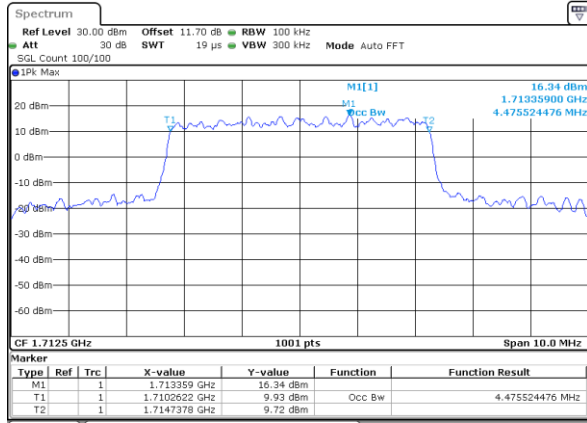


Date: 9 AUG 2017 14:55:26



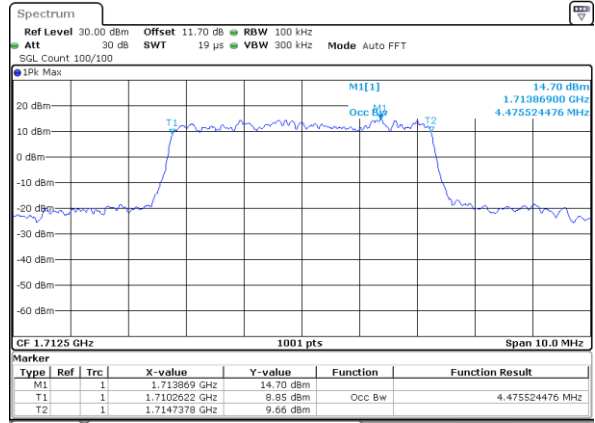
## LTE Band 66

## Lowest Channel / 5MHz / QPSK



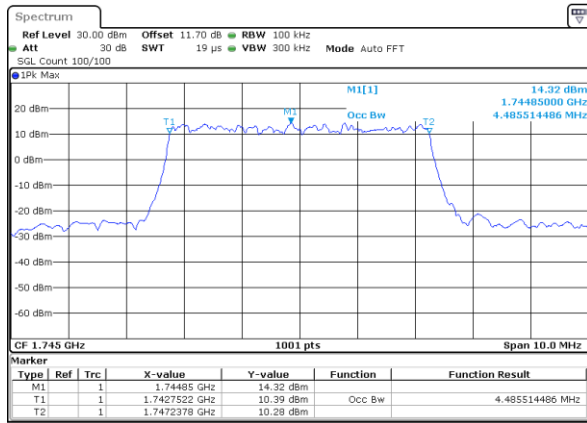
Date: 9 AUG 2017 15:02:20

## Lowest Channel / 5MHz / 16QAM



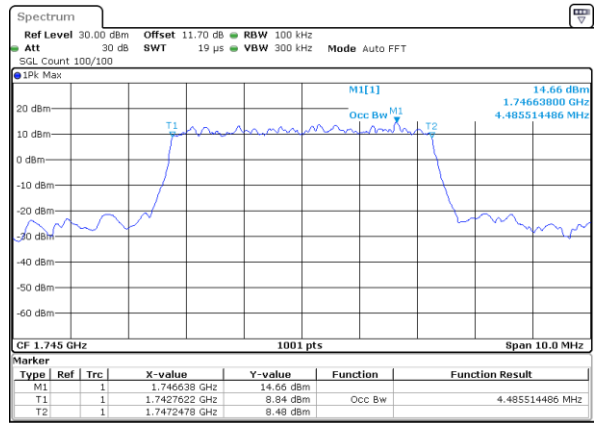
Date: 9 AUG 2017 15:02:30

## Middle Channel / 5MHz / QPSK



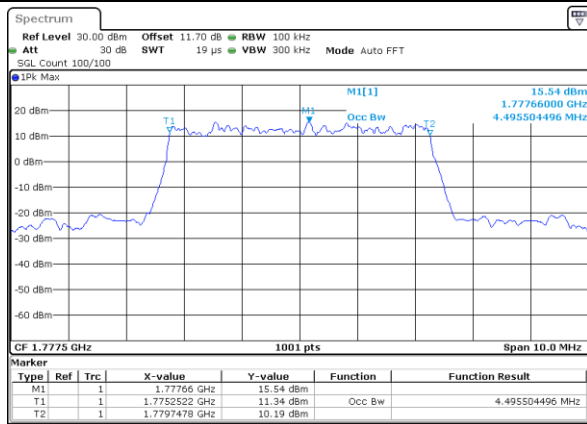
Date: 9 AUG 2017 15:09:23

## Middle Channel / 5MHz / 16QAM



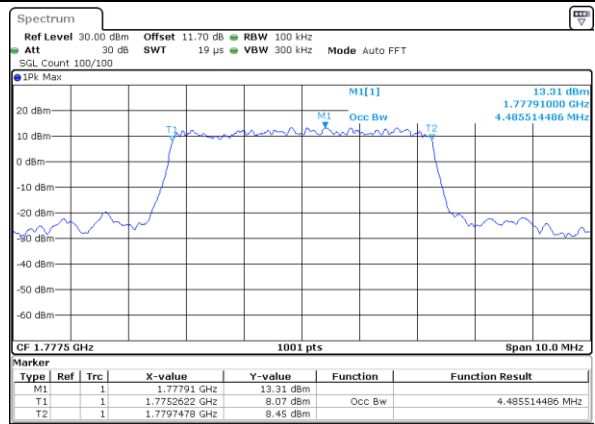
Date: 9 AUG 2017 15:09:34

## Highest Channel / 5MHz / QPSK



Date: 9 AUG 2017 15:11:53

## Highest Channel / 5MHz / 16QAM

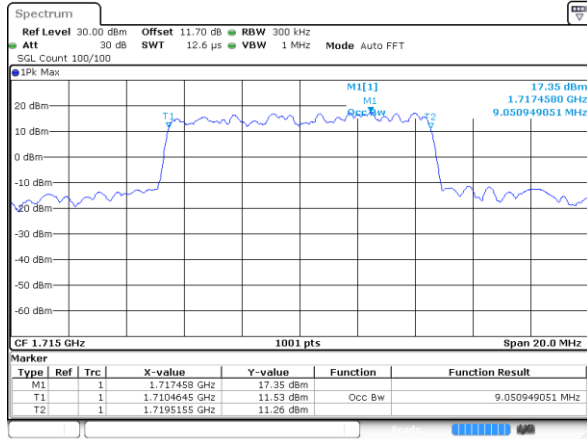


Date: 9 AUG 2017 15:12:03



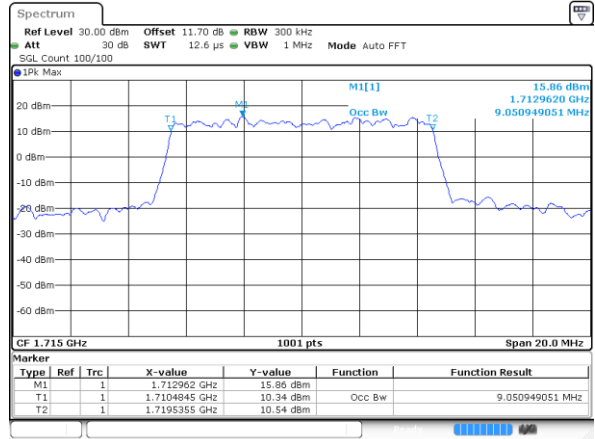
## LTE Band 66

## Lowest Channel / 10MHz / QPSK



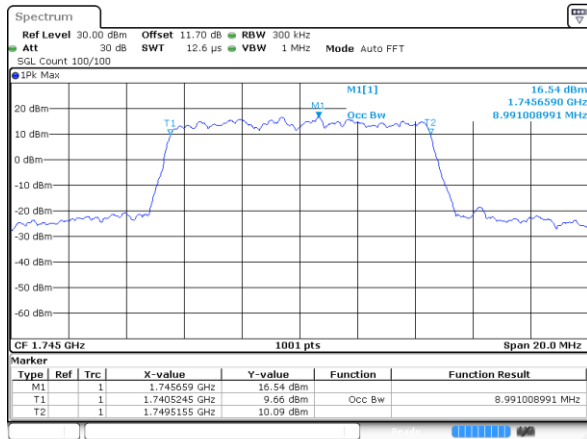
Date: 9 AUG 2017 15:18:57

## Lowest Channel / 10MHz / 16QAM



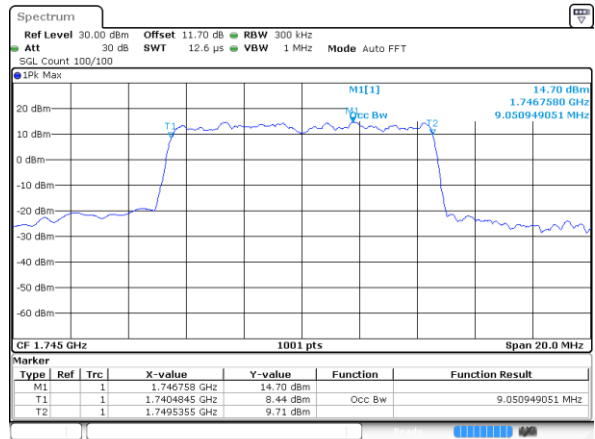
Date: 9 AUG 2017 15:19:07

## Middle Channel / 10MHz / QPSK



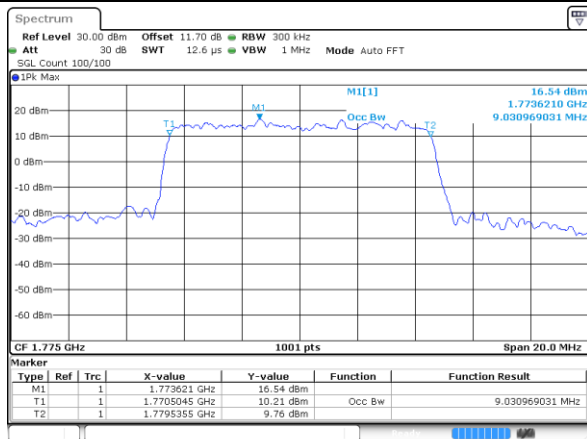
Date: 9 AUG 2017 15:26:01

## Middle Channel / 10MHz / 16QAM



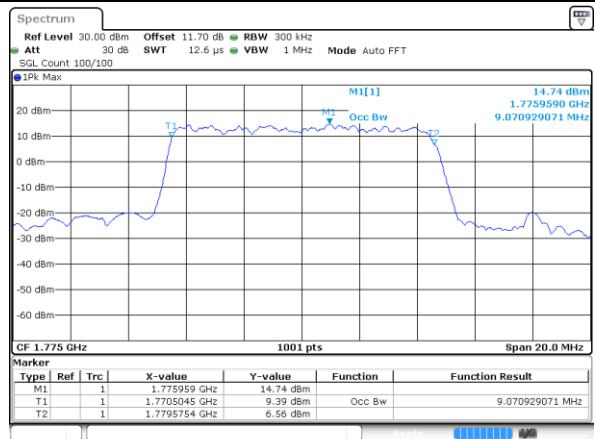
Date: 9 AUG 2017 15:26:11

## Highest Channel / 10MHz / QPSK



Date: 9 AUG 2017 15:28:31

## Highest Channel / 10MHz / 16QAM

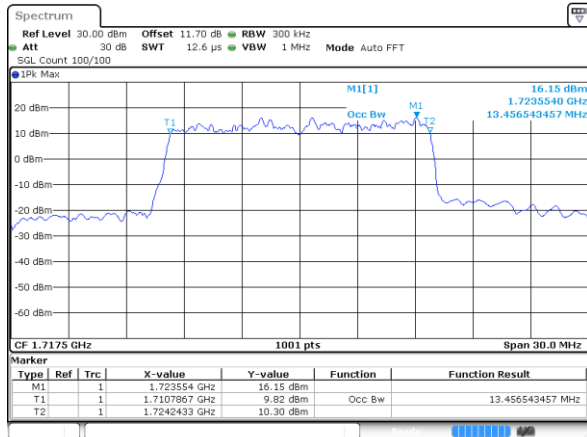


Date: 9 AUG 2017 15:28:41

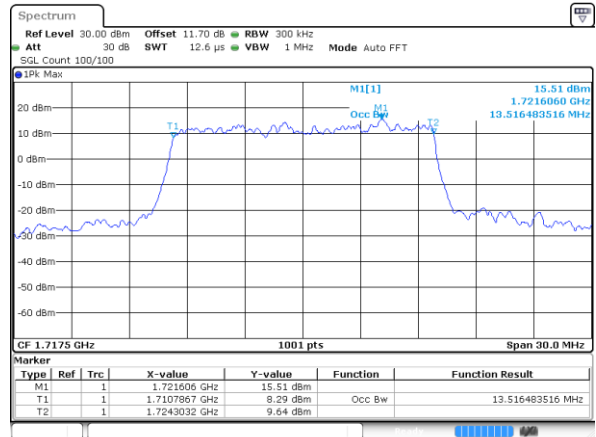


## LTE Band 66

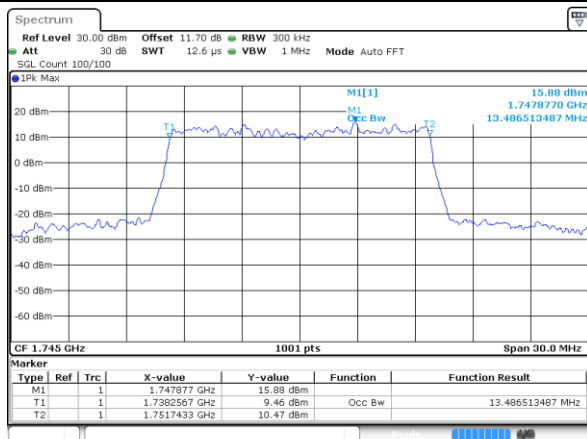
## Lowest Channel / 15MHz / QPSK



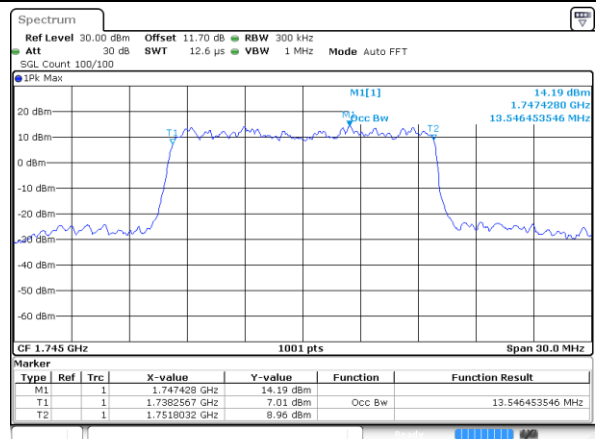
## Lowest Channel / 15MHz / 16QAM



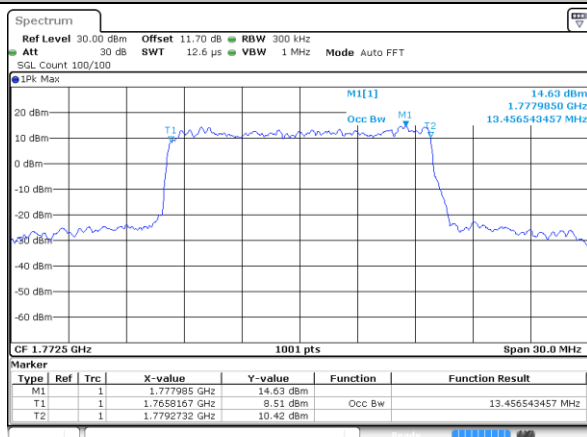
## Middle Channel / 15MHz / QPSK



## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



## Highest Channel / 15MHz / 16QAM

