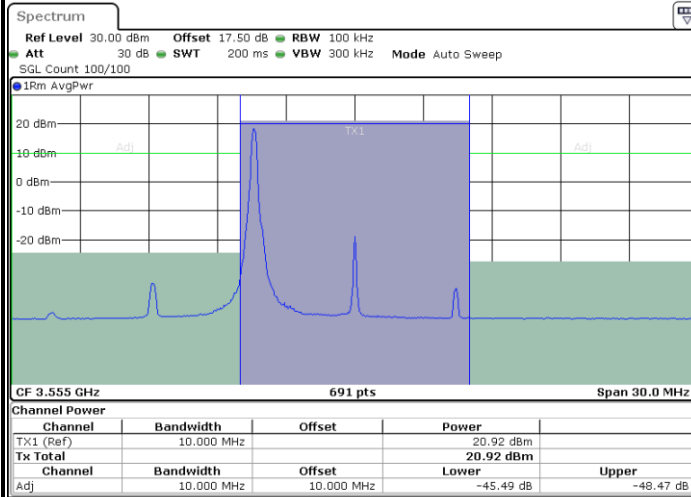




## LTE Band 48 / 10MHz

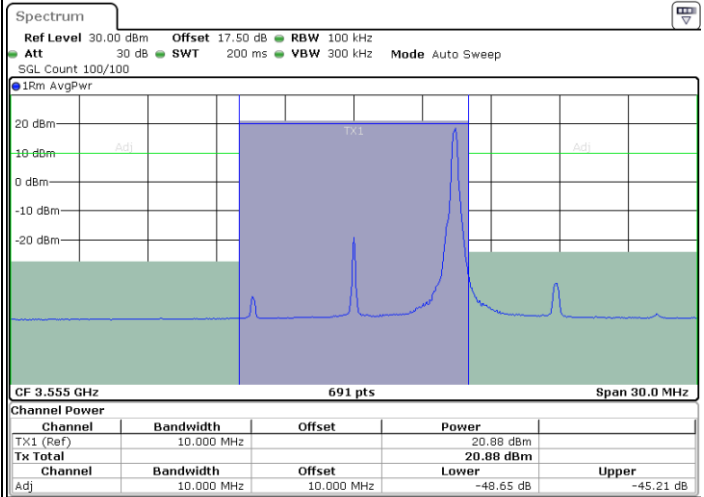
## 64QAM

## Lowest Channel / 1RB0



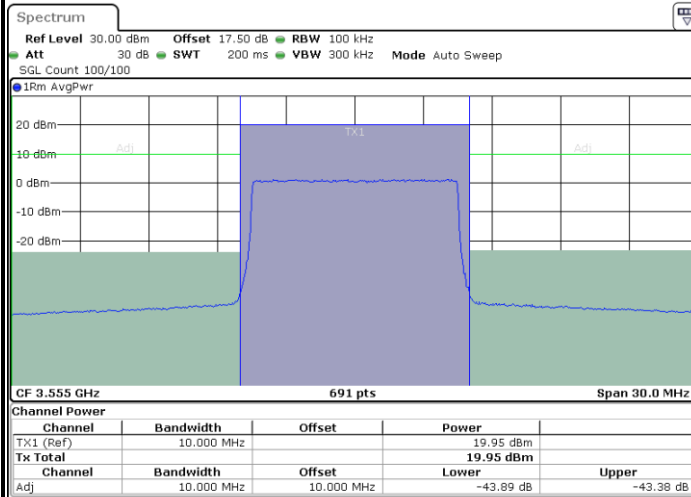
Date: 12.APR.2020 16:15:17

## Lowest Channel / 1RBmax



Date: 12.APR.2020 16:25:27

## Lowest Channel / FullRB



Date: 12.APR.2020 16:20:23

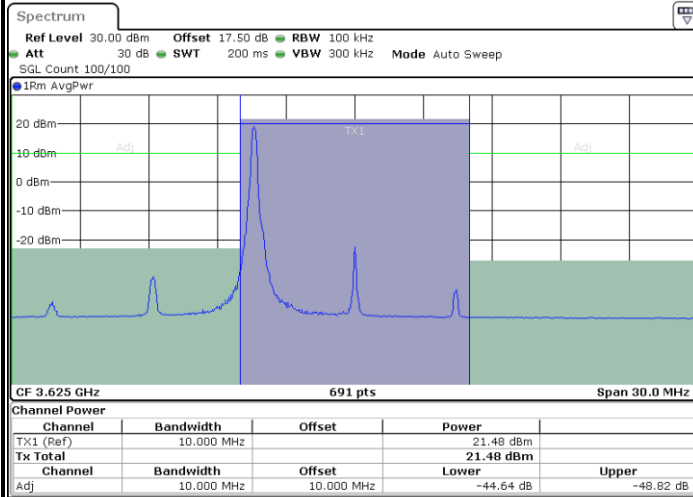
## N/A



## LTE Band 48 / 10MHz

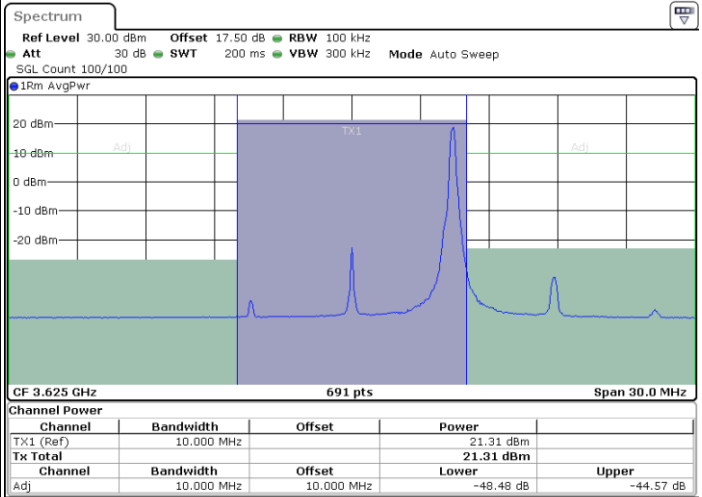
## 64QAM

## MiddleChannel / 1RB0



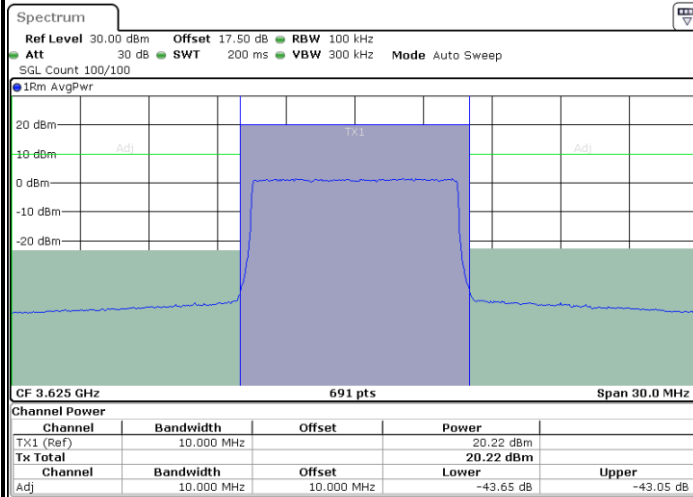
Date: 12.APR.2020 16:18:07

## Middle Channel / 1RBmax



Date: 12.APR.2020 16:28:14

## Middle Channel / FullRB



Date: 12.APR.2020 16:23:10

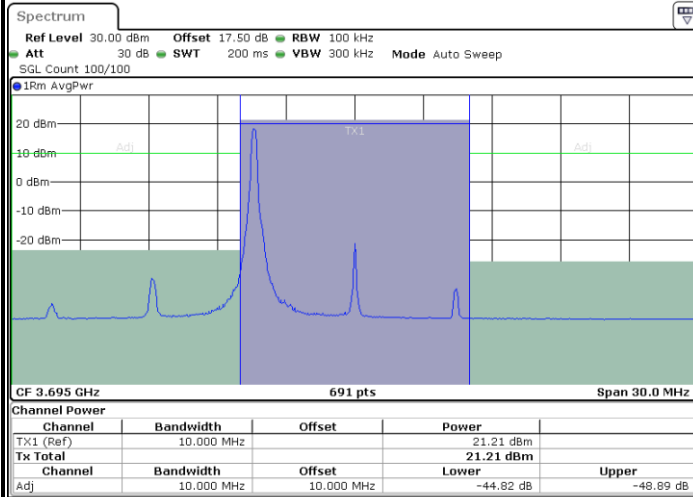
## N/A



## LTE Band 48 / 10MHz

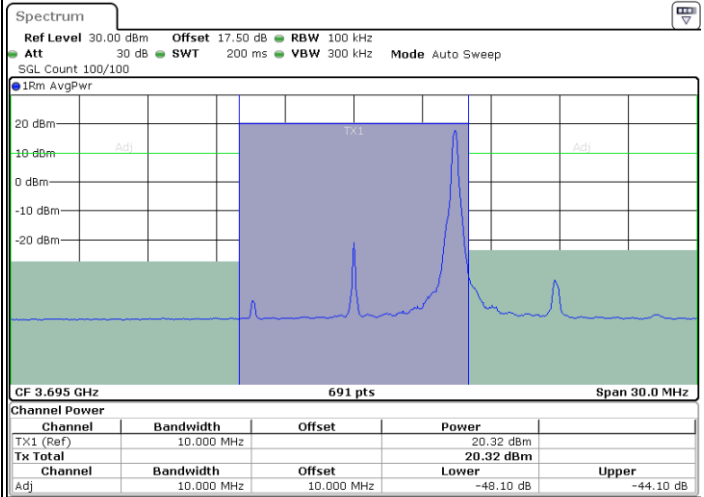
## 64QAM

## Highest Channel / 1RB0



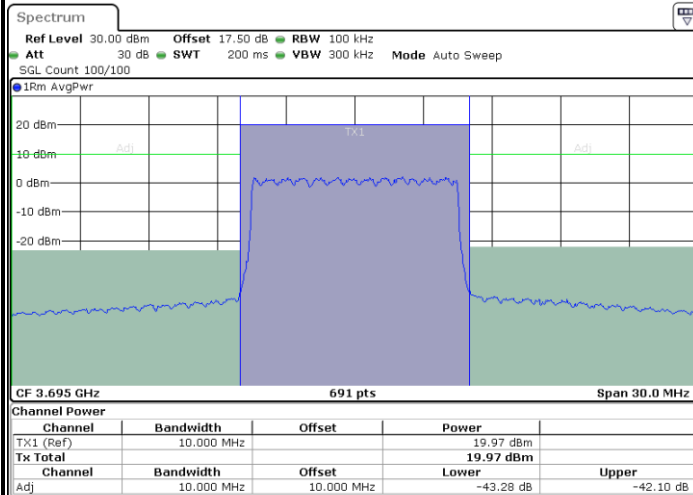
Date: 12.APR.2020 16:18:40

## Highest Channel / 1RBmax



Date: 12.APR.2020 16:28:48

## Highest Channel / FullRB



Date: 12.APR.2020 16:23:44

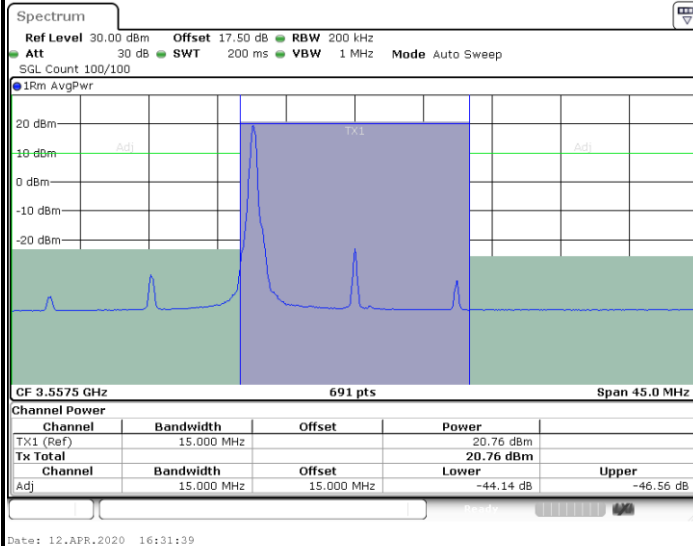
N/A



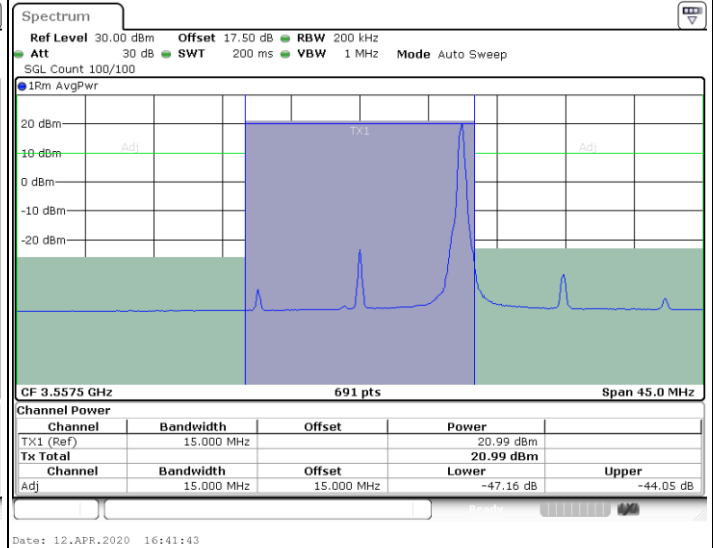
## LTE Band 48 / 15MHz

## 64QAM

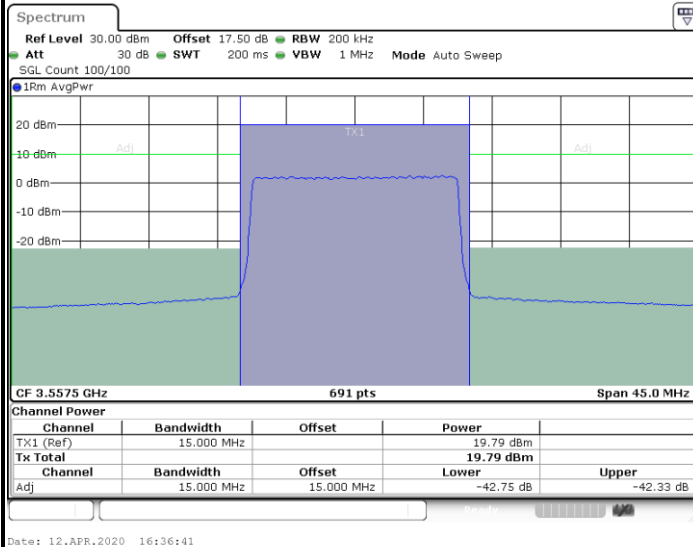
## Lowest Channel / 1RB0



## Lowest Channel / 1RBmax



## Lowest Channel / FullRB



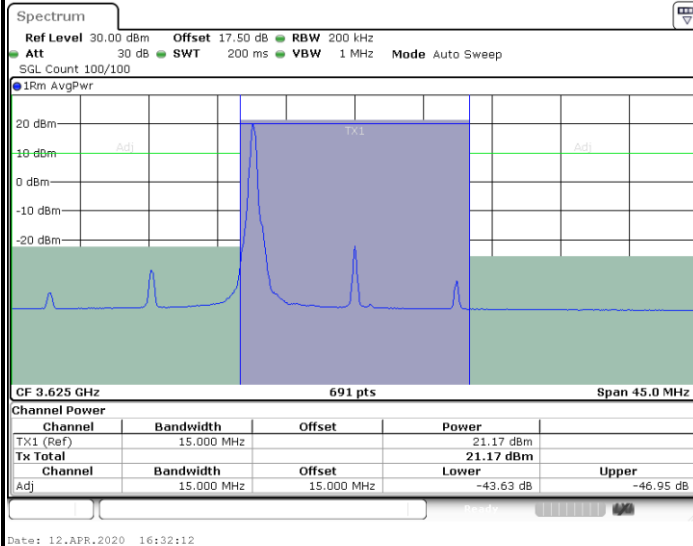
## N/A



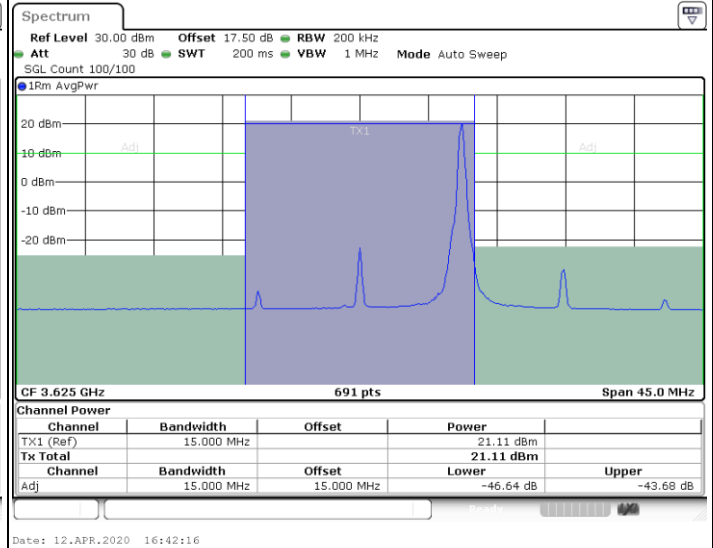
## LTE Band 48 / 15MHz

## 64QAM

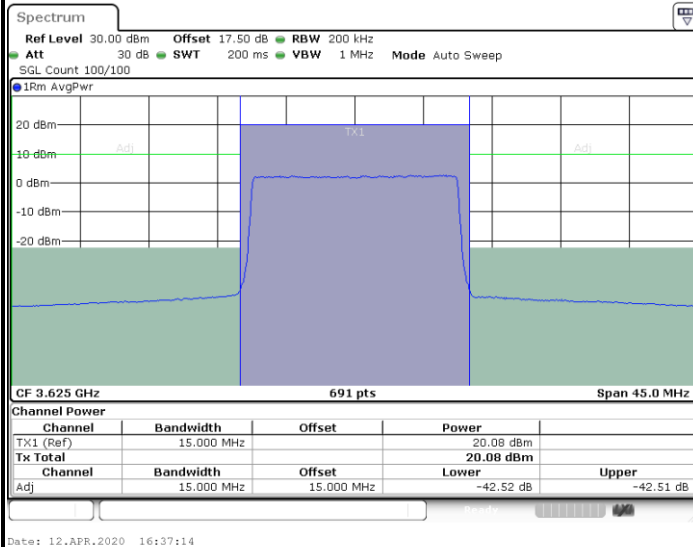
## Middle Channel / 1RB0



## Middle Channel / 1RBmax



## Middle Channel / FullRB



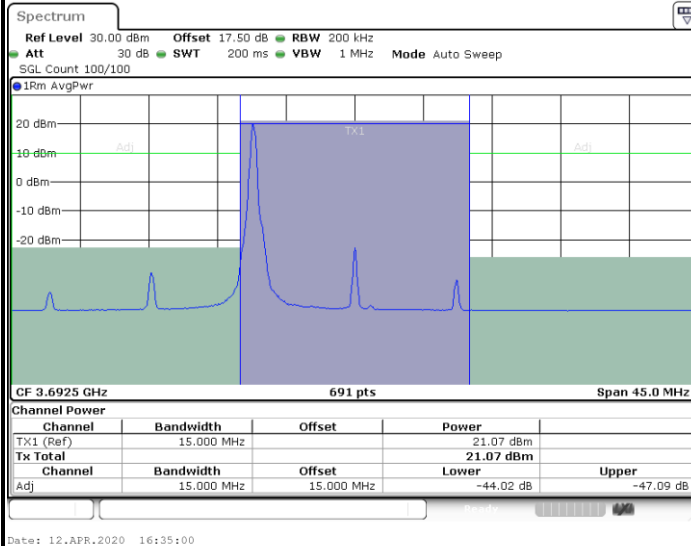
## N/A



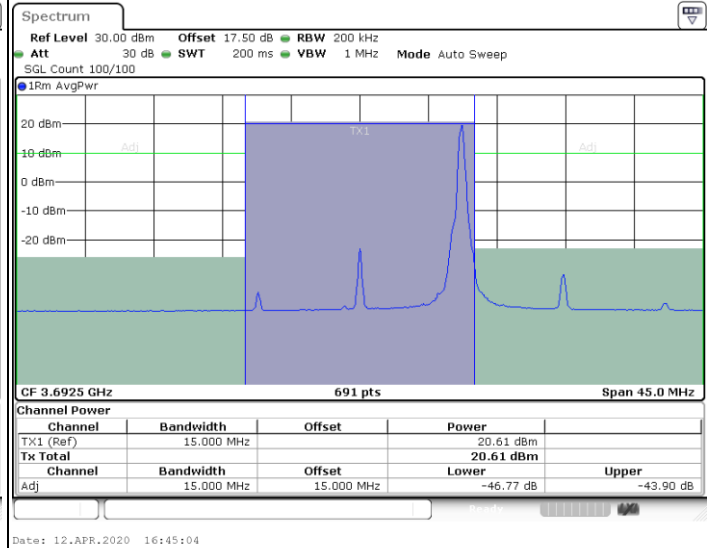
## LTE Band 48 / 15MHz

## 64QAM

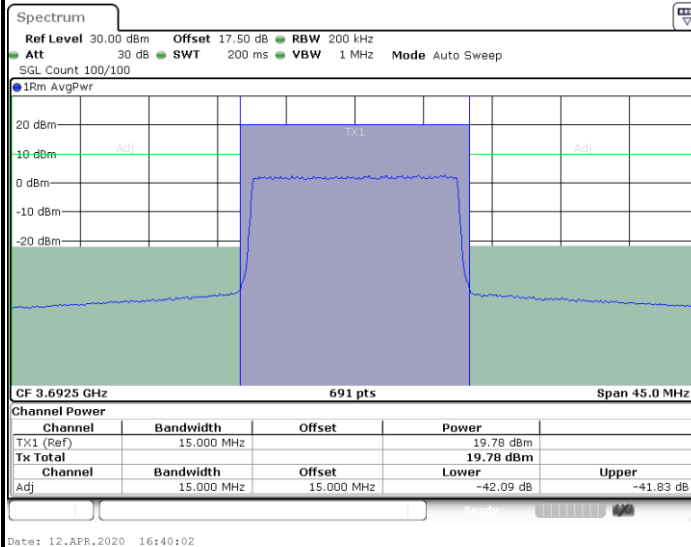
## Highest Channel / 1RB0



## Highest Channel / 1RBmax



## Highest Channel / FullIRB



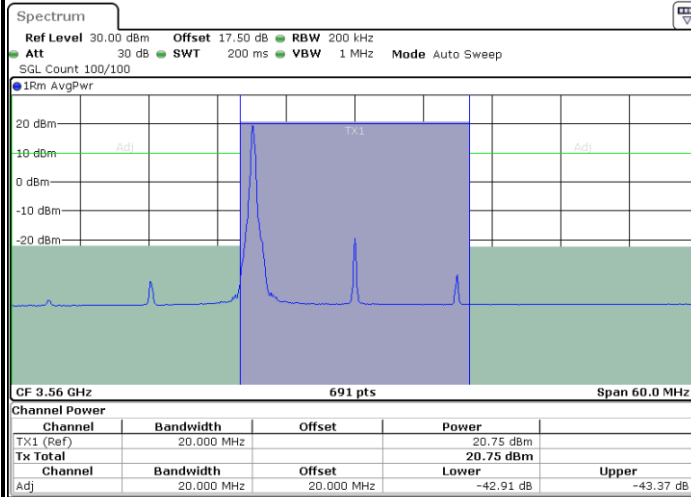
## N/A



## LTE Band 48 / 20MHz

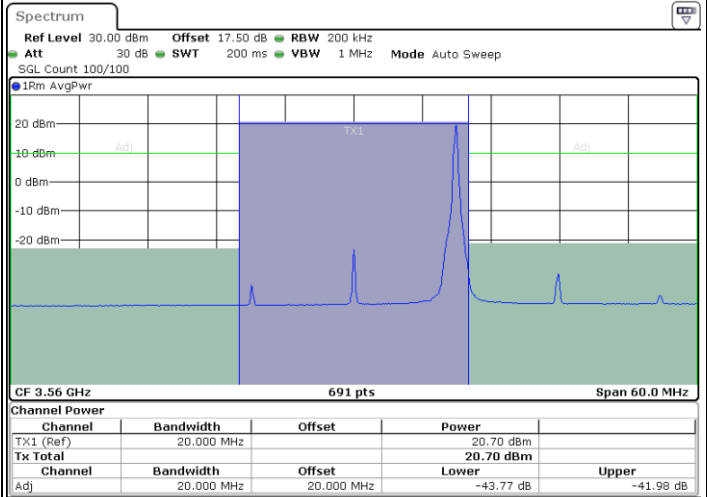
## 64QAM

## Lowest Channel / 1RB0



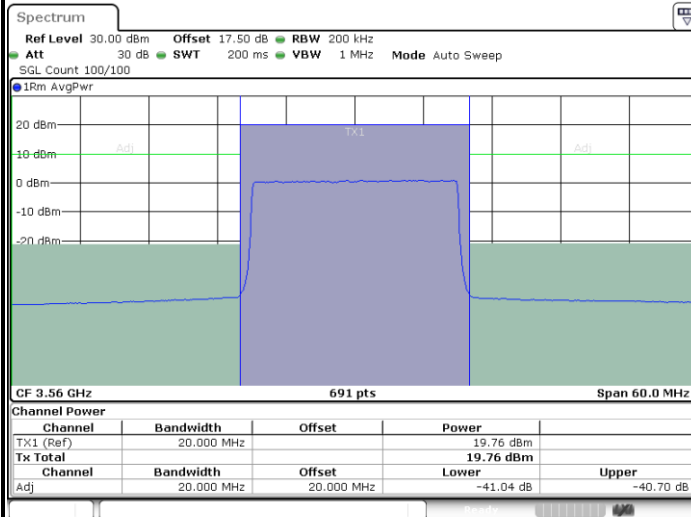
Date: 12.APR.2020 16:50:31

## Lowest Channel / 1RBmax



Date: 12.APR.2020 16:55:23

## Lowest Channel / FullRB



Date: 12.APR.2020 16:45:38

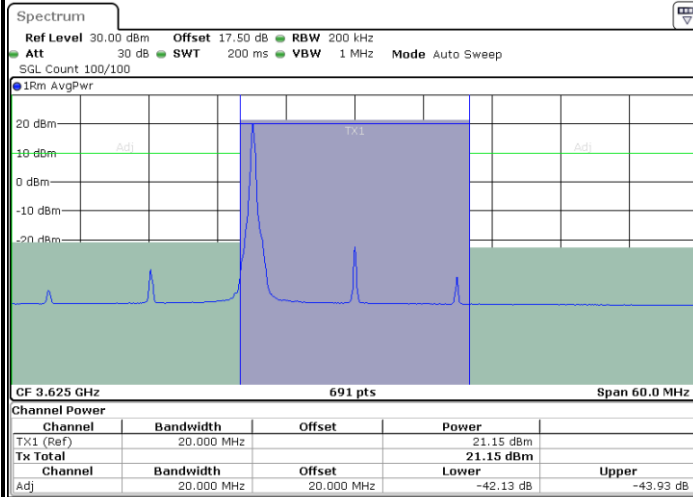
## N/A



## LTE Band 48 / 20MHz

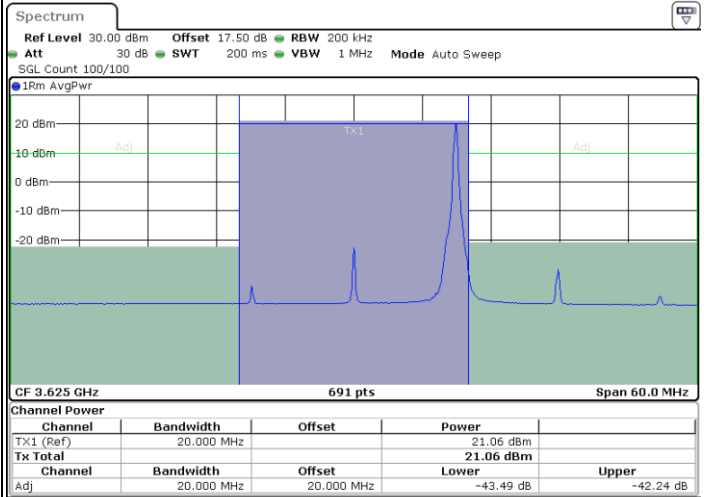
## 64QAM

## Middle Channel / 1RB0



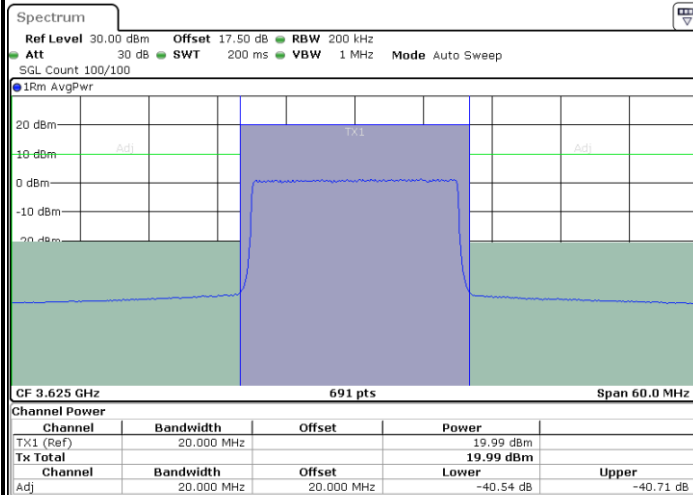
Date: 12.APR.2020 16:53:12

## Middle Channel / 1RBmax



Date: 12.APR.2020 16:58:05

## Middle Channel / FullRB



Date: 12.APR.2020 16:48:20

N/A



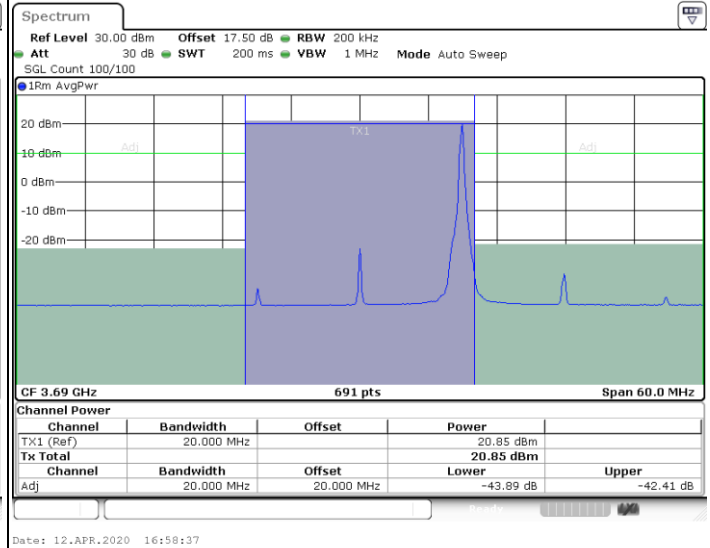
## LTE Band 48 / 20MHz

## 64QAM

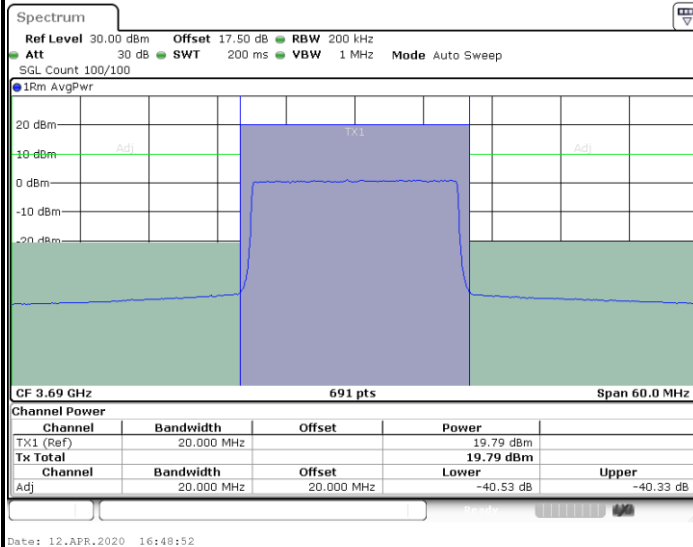
## Highest Channel / 1RB0



## Highest Channel / 1RBmax



## Highest Channel / FullIRB



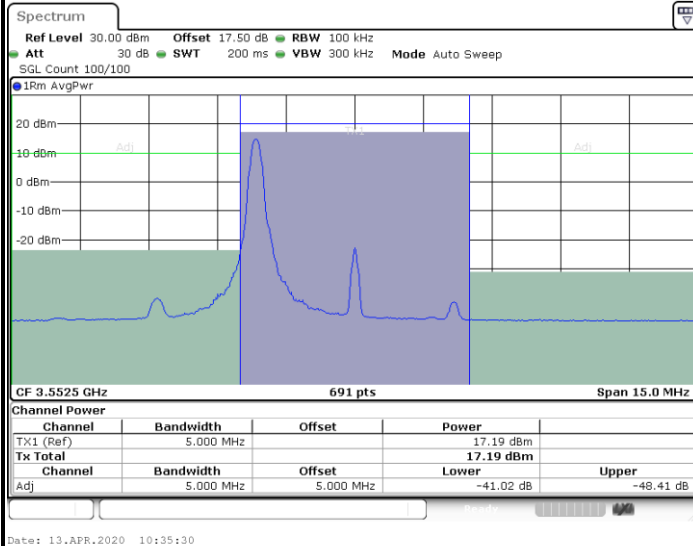
## N/A



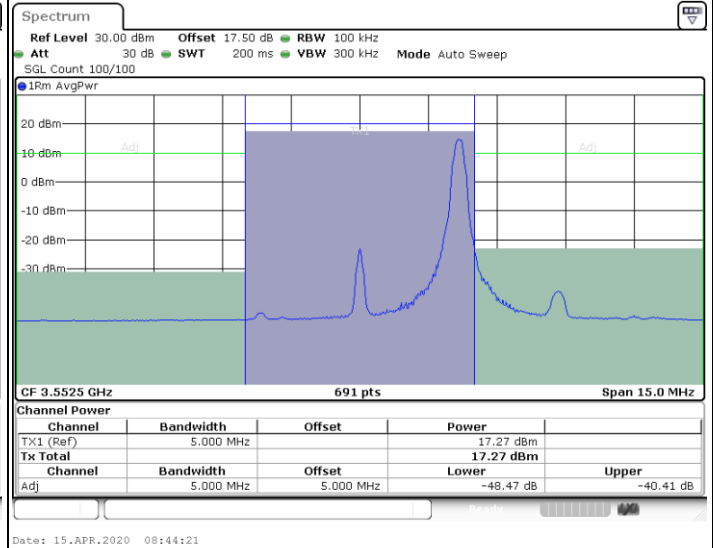
## LTE Band 48 / 5MHz

## 256QAM

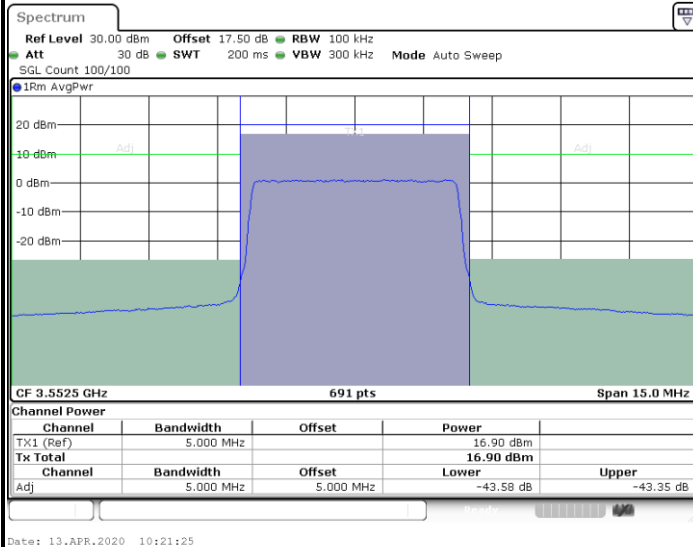
## Lowest Channel / 1RB0



## Lowest Channel / 1RBmax



## Lowest Channel / FullRB



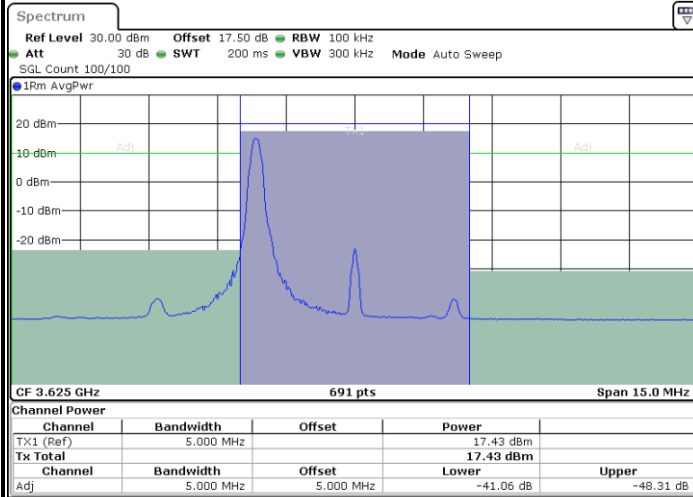
## N/A



## LTE Band 48 / 5MHz

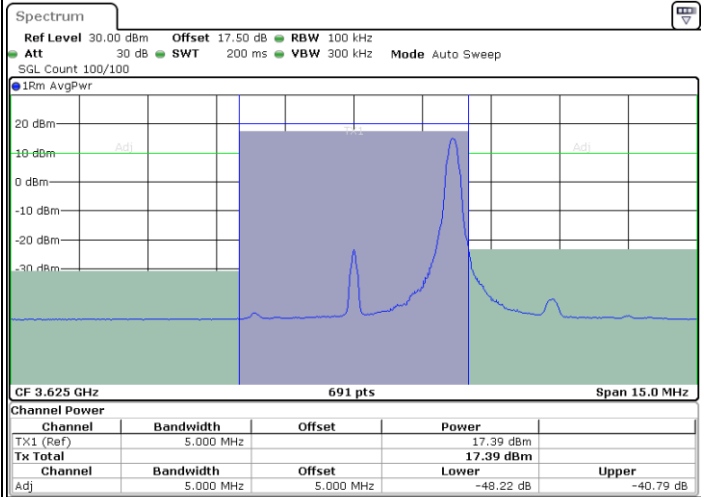
## 256QAM

## Middle Channel / 1RB0



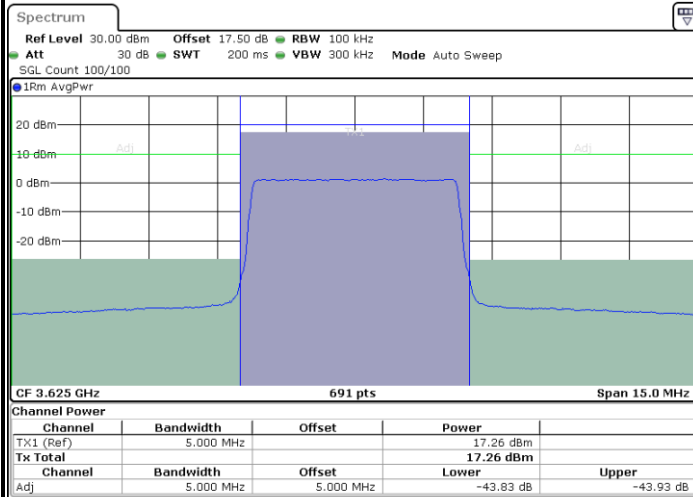
Date: 13.APR.2020 10:02:03

## Middle Channel / 1RBmax



Date: 13.APR.2020 10:02:47

## Middle Channel / FullRB



Date: 13.APR.2020 10:01:19

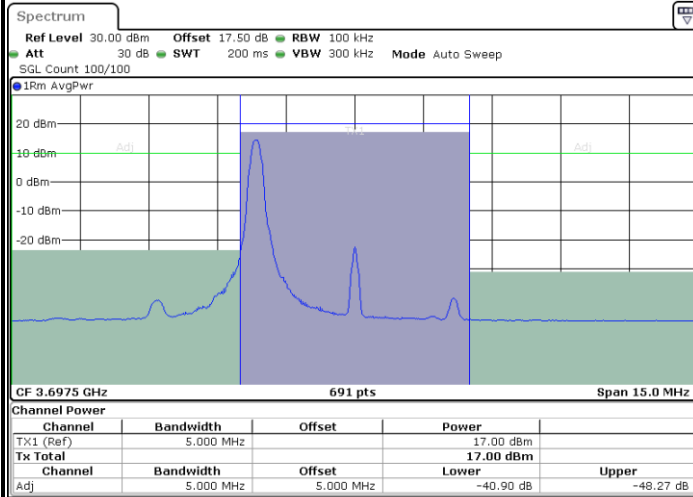
N/A



## LTE Band 48 / 5MHz

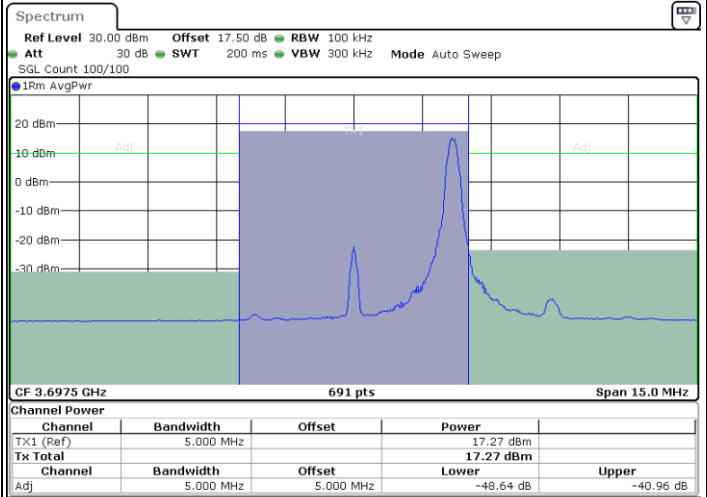
## 256QAM

## Highest Channel / 1RB0



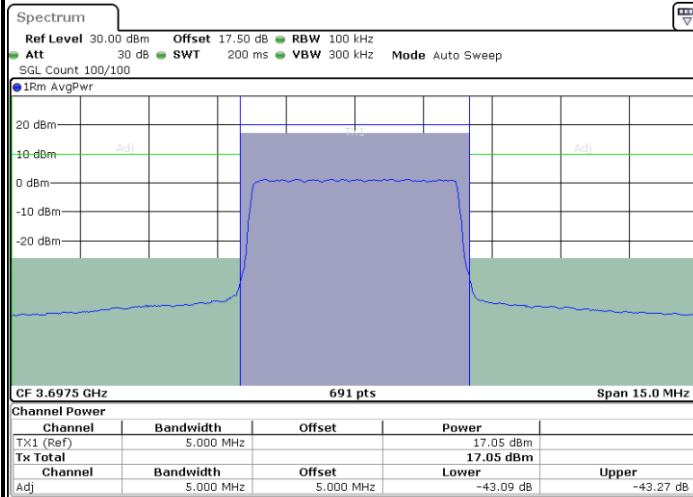
Date: 13.APR.2020 10:31:02

## Highest Channel / 1RBmax



Date: 13.APR.2020 10:33:34

## Highest Channel / FullIRB



Date: 13.APR.2020 10:30:23

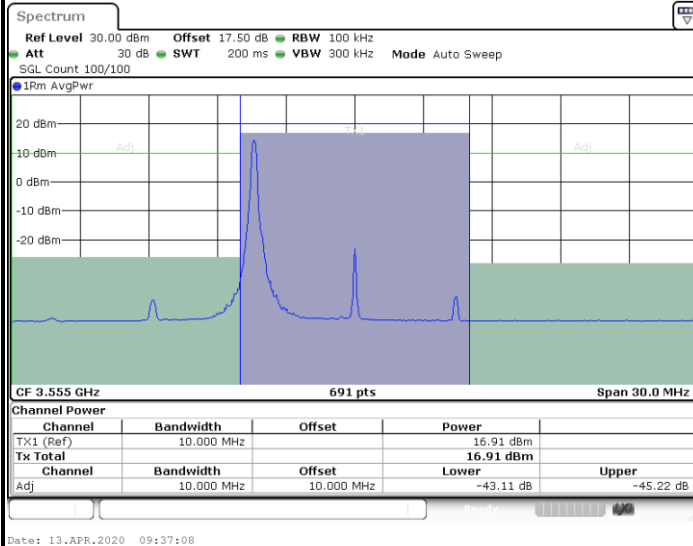
N/A



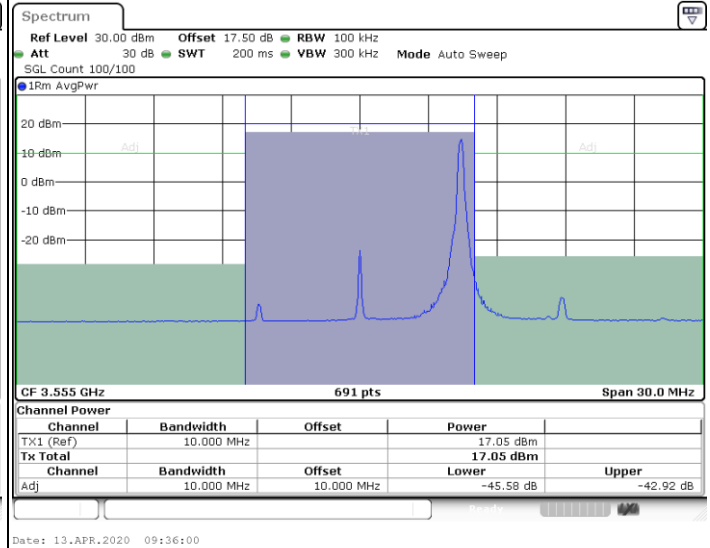
## LTE Band 48 / 10MHz

## 256QAM

## Lowest Channel / 1RB0



## Lowest Channel / 1RBmax



## Lowest Channel / FullRB



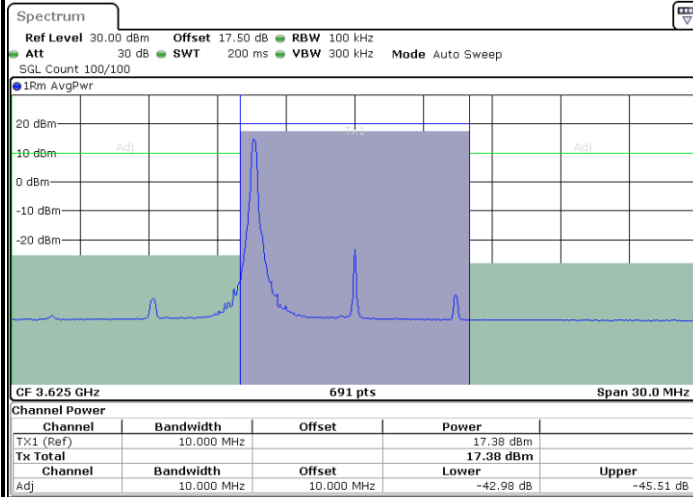
## N/A



## LTE Band 48 / 10MHz

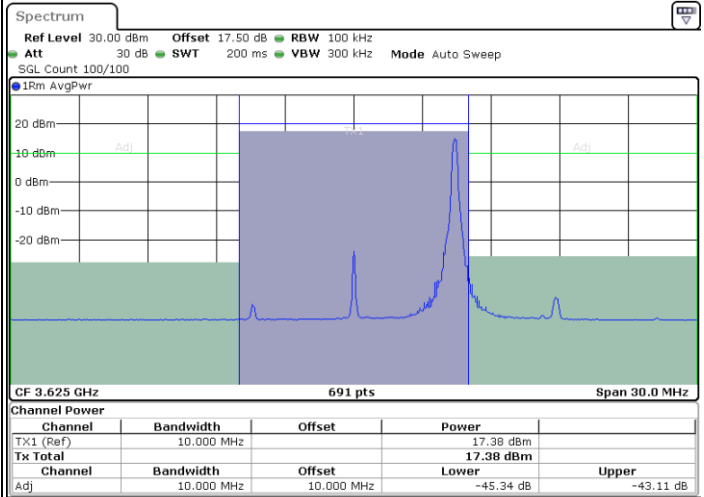
## 256QAM

## MiddleChannel / 1RB0



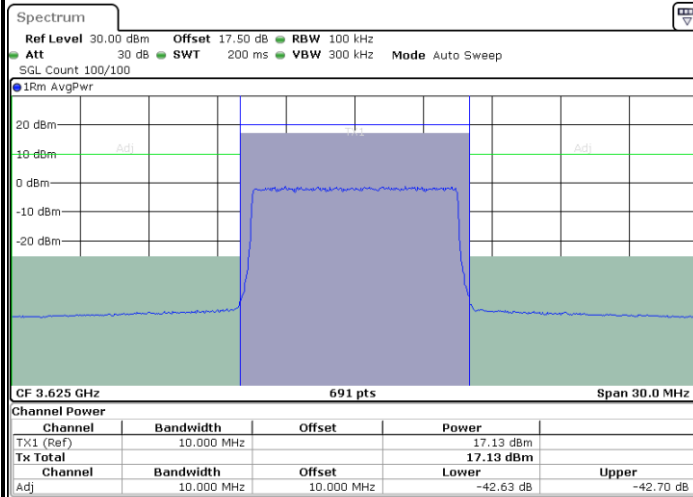
Date: 13.APR.2020 09:12:47

## Middle Channel / 1RBmax



Date: 13.APR.2020 09:13:28

## Middle Channel / FullRB



Date: 13.APR.2020 09:10:34

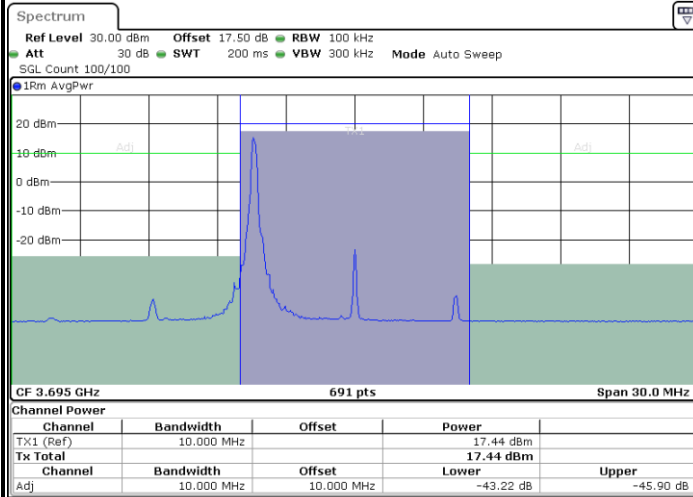
## N/A



## LTE Band 48 / 10MHz

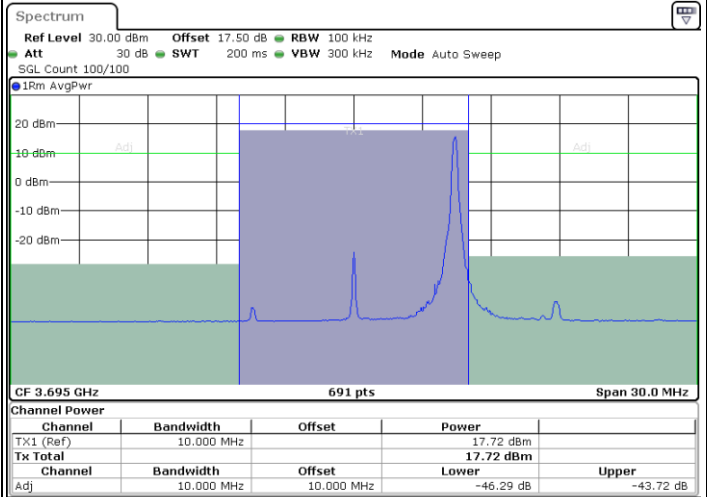
## 256QAM

## Highest Channel / 1RB0



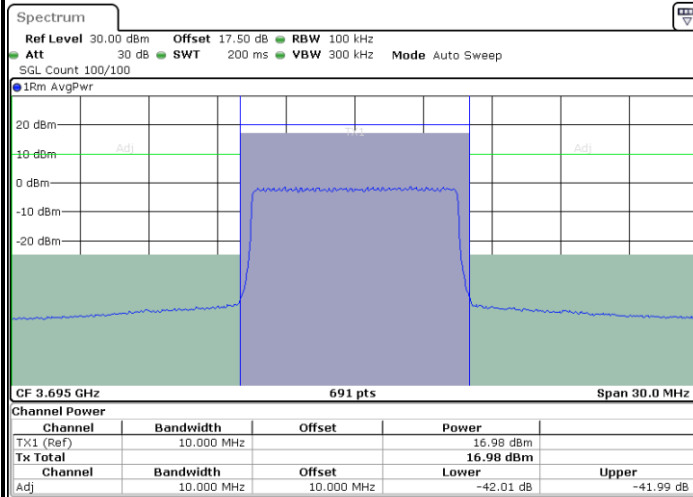
Date: 13.APR.2020 09:44:50

## Highest Channel / 1RBmax



Date: 13.APR.2020 09:45:56

## Highest Channel / FullRB



Date: 13.APR.2020 09:43:40

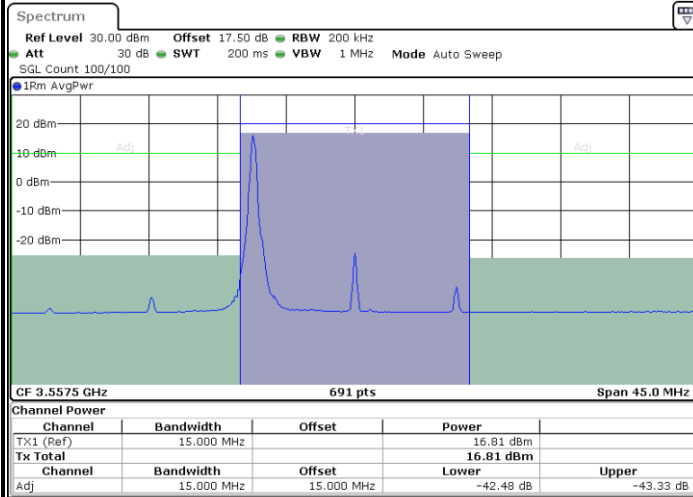
N/A



## LTE Band 48 / 15MHz

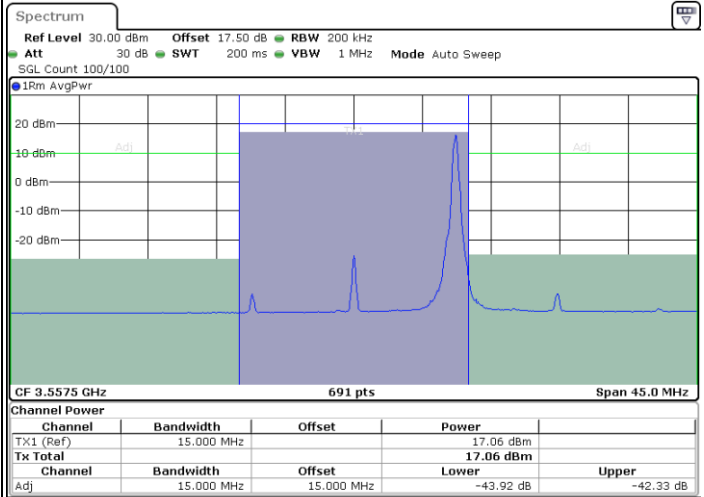
## 256QAM

## Lowest Channel / 1RB0



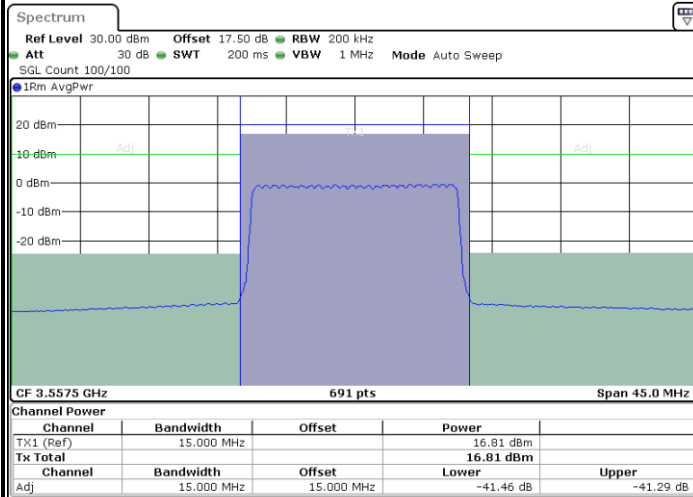
Date: 13.APR.2020 08:50:14

## Lowest Channel / 1RBmax



Date: 13.APR.2020 08:50:55

## Lowest Channel / FullRB



Date: 13.APR.2020 08:49:27

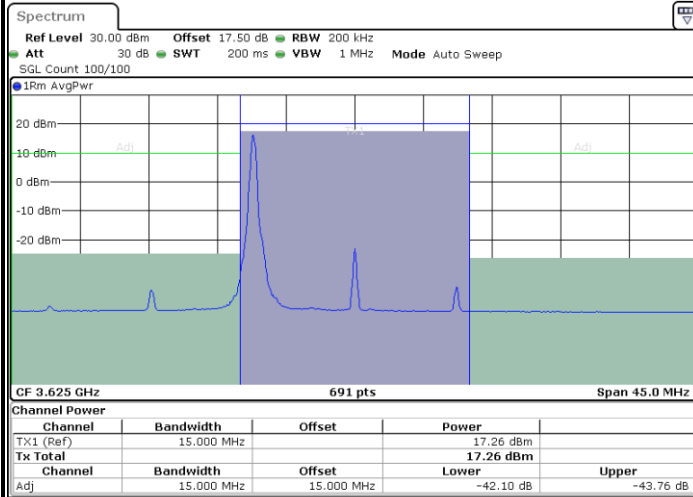
## N/A



## LTE Band 48 / 15MHz

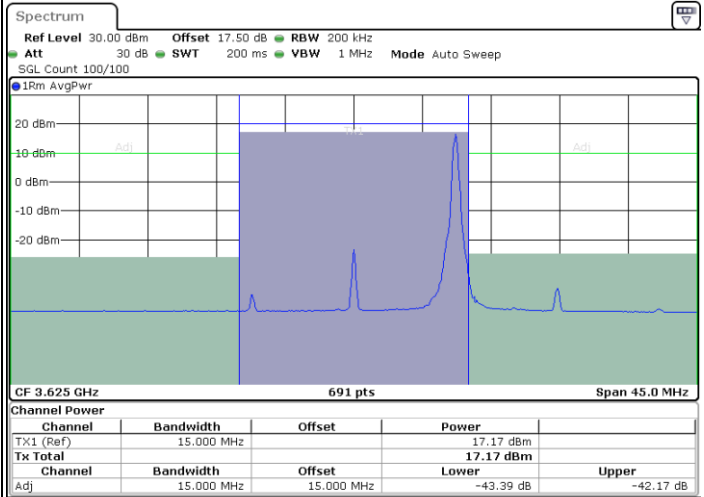
## 256QAM

## Middle Channel / 1RB0



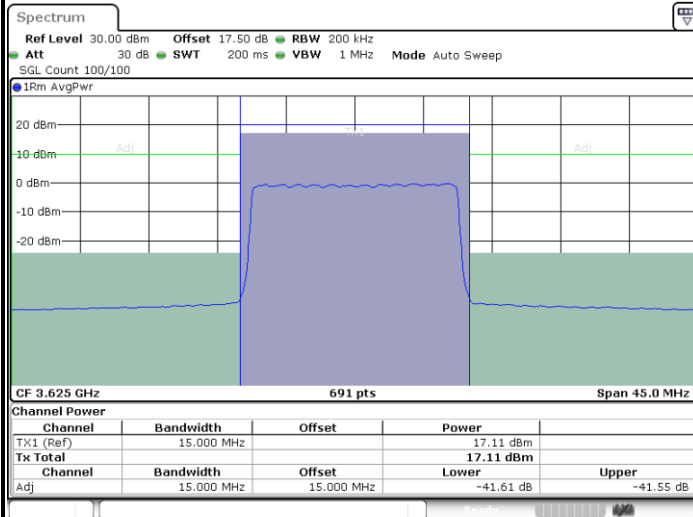
Date: 13.APR.2020 09:04:57

## Middle Channel / 1RBmax



Date: 13.APR.2020 09:05:40

## Middle Channel / FullRB



Date: 13.APR.2020 09:06:42

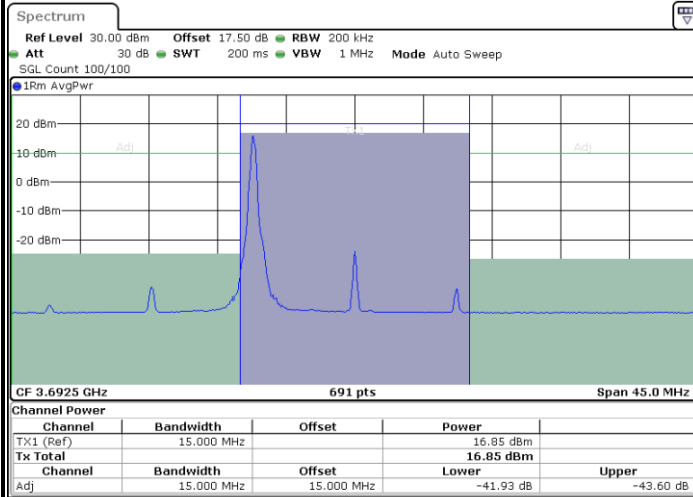
N/A



## LTE Band 48 / 15MHz

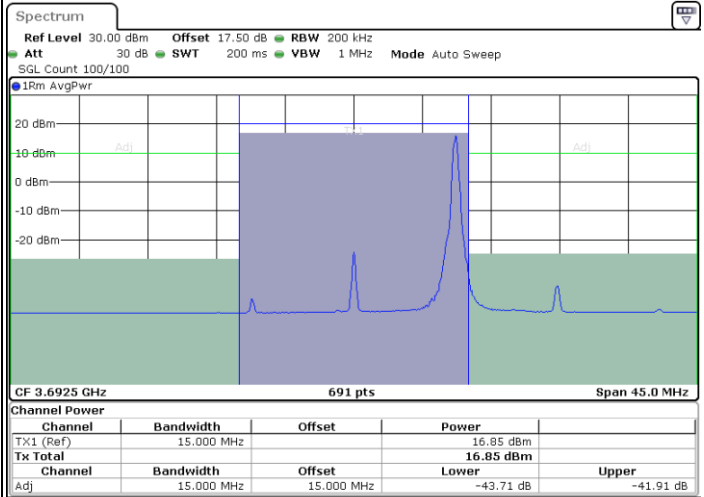
## 256QAM

## Highest Channel / 1RB0



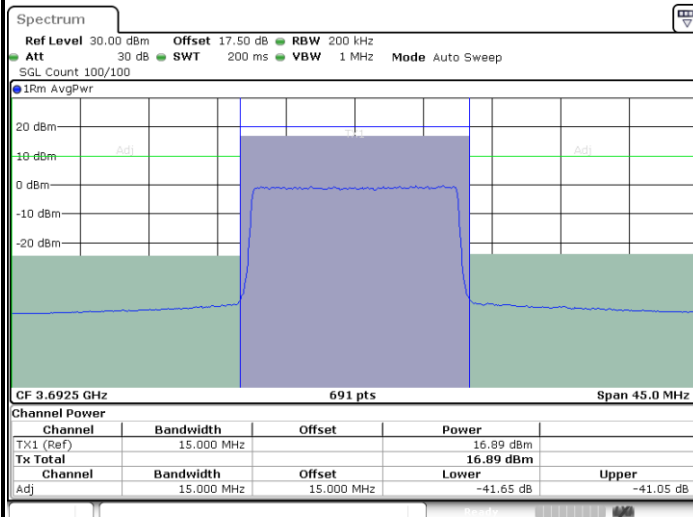
Date: 13.APR.2020 08:56:52

## Highest Channel / 1RBmax



Date: 13.APR.2020 08:55:43

## Highest Channel / FullIRB



Date: 13.APR.2020 08:59:28

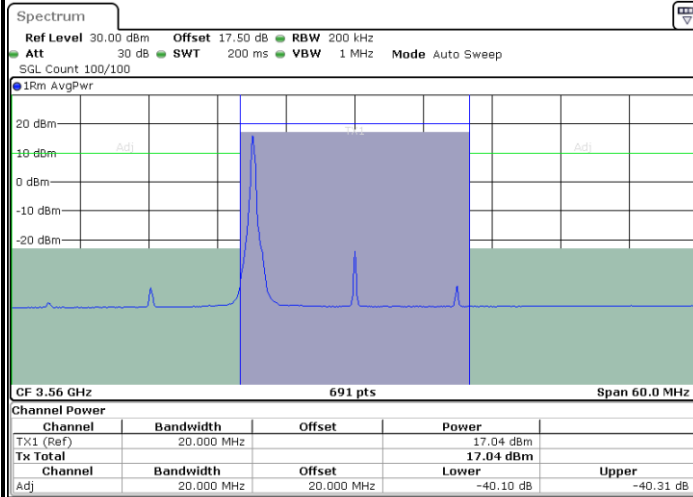
N/A



## LTE Band 48 / 20MHz

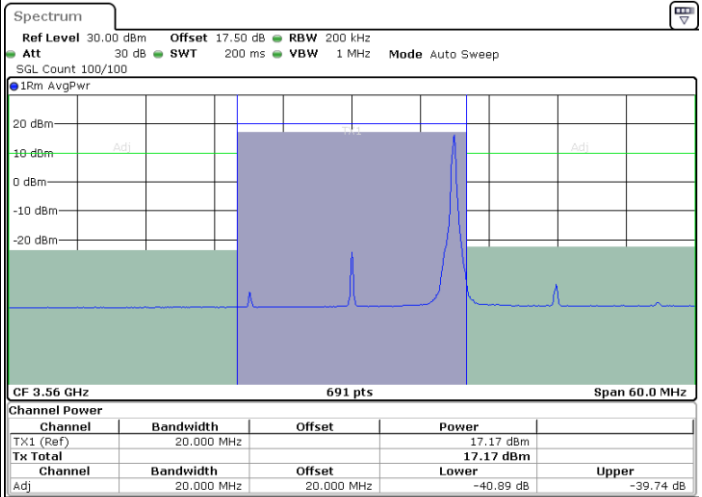
## 256QAM

## Lowest Channel / 1RB0



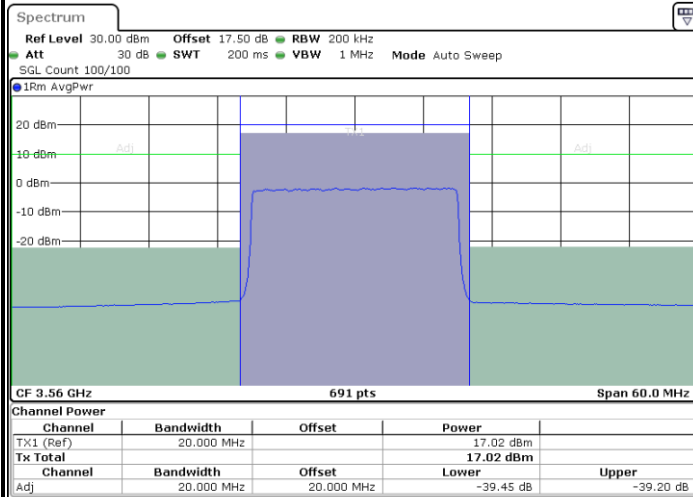
Date: 13.APR.2020 08:46:52

## Lowest Channel / 1RBmax



Date: 13.APR.2020 08:46:02

## Lowest Channel / FullRB



Date: 13.APR.2020 08:47:40

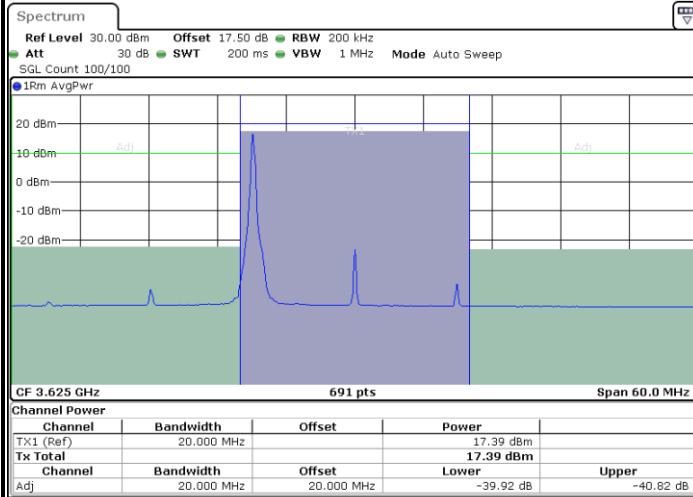
## N/A



## LTE Band 48 / 20MHz

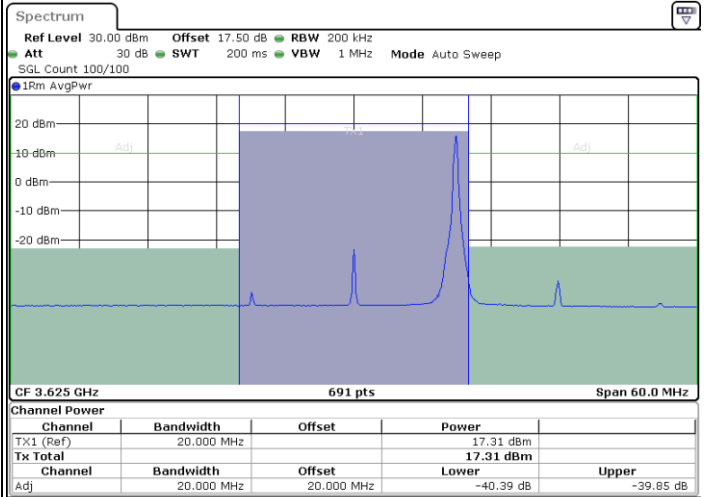
## 256QAM

## Middle Channel / 1RB0



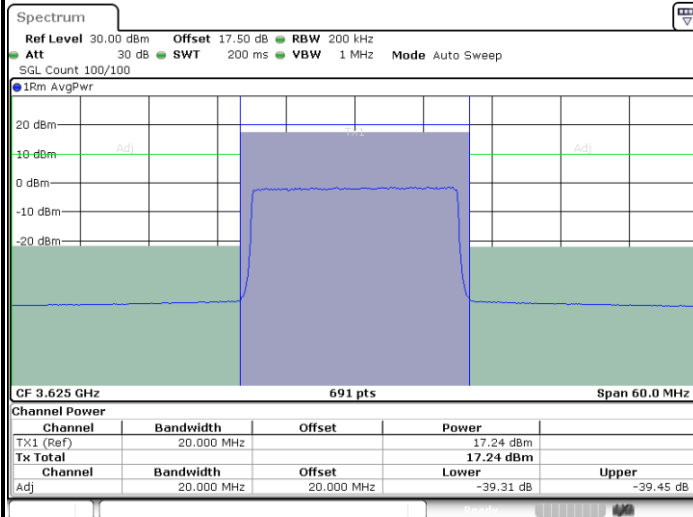
Date: 13.APR.2020 08:43:24

## Middle Channel / 1RBmax



Date: 13.APR.2020 08:44:54

## Middle Channel / FullRB



Date: 13.APR.2020 08:37:55

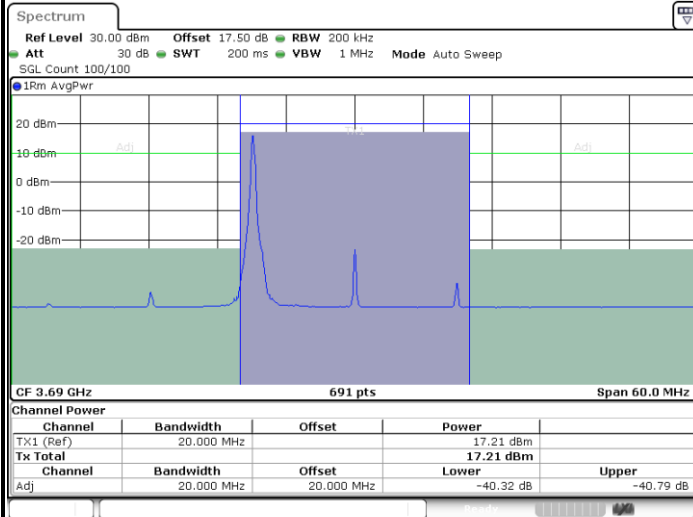
## N/A



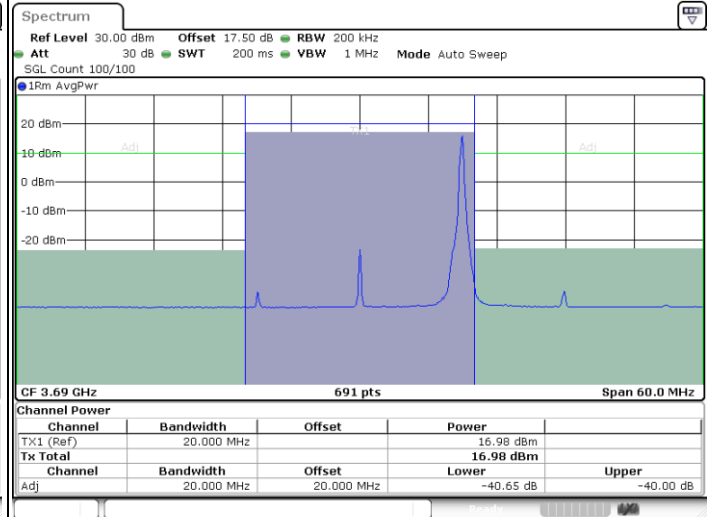
## LTE Band 48 / 20MHz

## 256QAM

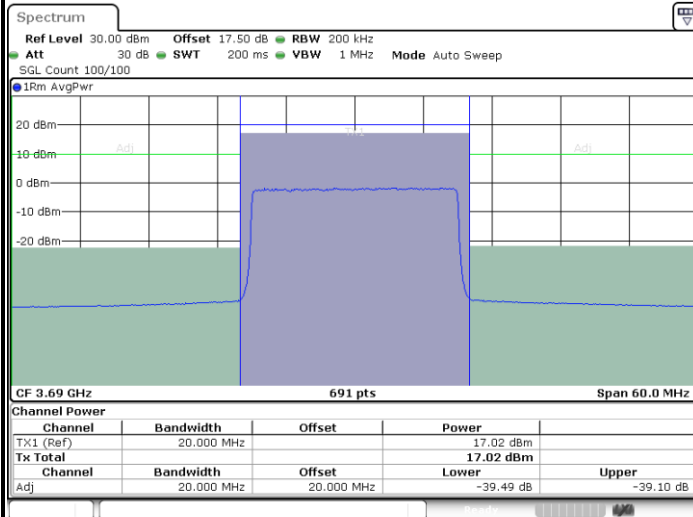
## Highest Channel / 1RB0



## Highest Channel / 1RBmax



## Highest Channel / FullIRB



N/A

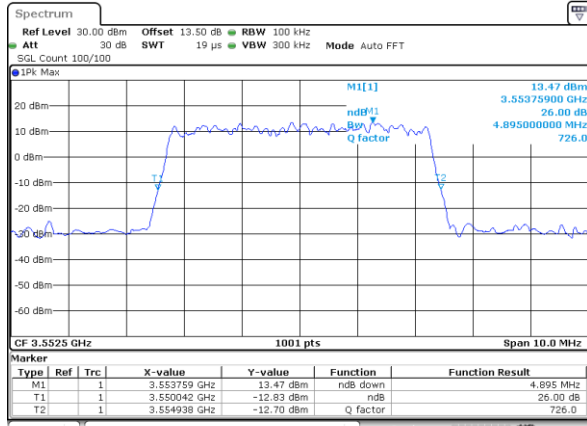
**26dB Bandwidth**

| Mode       | LTE Band 48 : 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  | -                          | -     | -     | -     | 4.90  | 4.85   | 9.63  | 9.65   | 14.39 | 14.33  | 18.82 | 18.70  |
| Middle CH  | -                          | -     | -     | -     | 4.98  | 4.91   | 9.63  | 9.81   | 14.45 | 14.42  | 18.82 | 19.06  |
| Highest CH | -                          | -     | -     | -     | 4.92  | 4.94   | 9.73  | 9.73   | 14.57 | 14.15  | 19.10 | 18.78  |
| Mode       | LTE Band 48 : 26dB BW(MHz) |       |       |       |       |        |       |        |       |        |       |        |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | -                          | -     | -     | -     | 4.88  | 4.86   | 9.67  | 9.59   | 14.24 | 14.36  | 18.62 | 18.62  |
| Middle CH  | -                          | -     | -     | -     | 4.79  | 4.88   | 9.77  | 9.73   | 14.27 | 14.39  | 18.78 | 18.66  |
| Highest CH | -                          | -     | -     | -     | 4.83  | 4.84   | 9.63  | 9.85   | 14.63 | 14.12  | 18.86 | 18.74  |

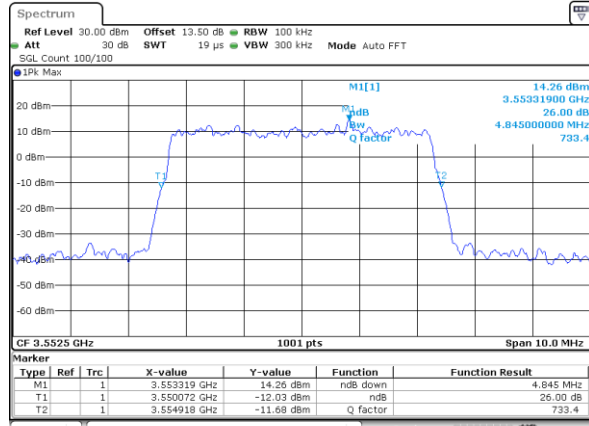


## LTE Band 48

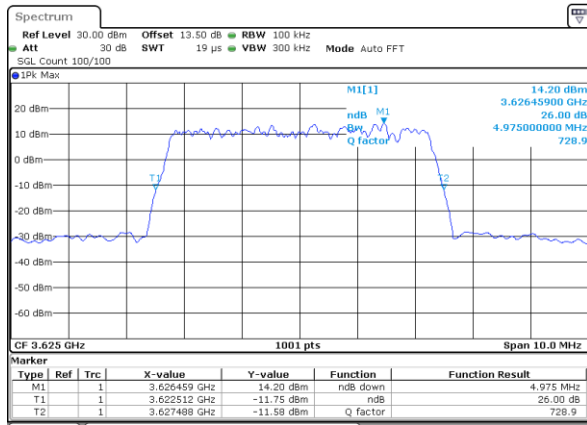
## Lowest Channel / 5MHz / QPSK



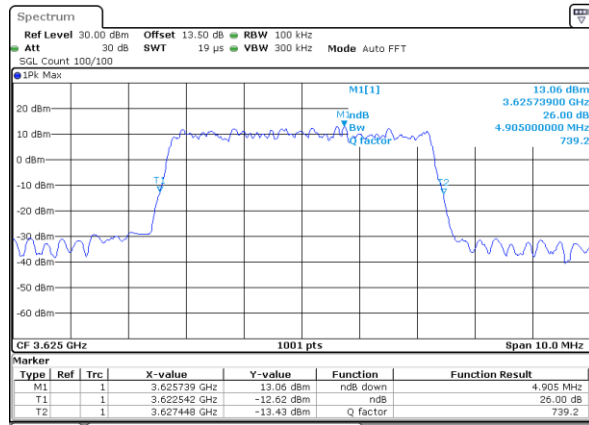
## Lowest Channel / 5MHz / 16QAM



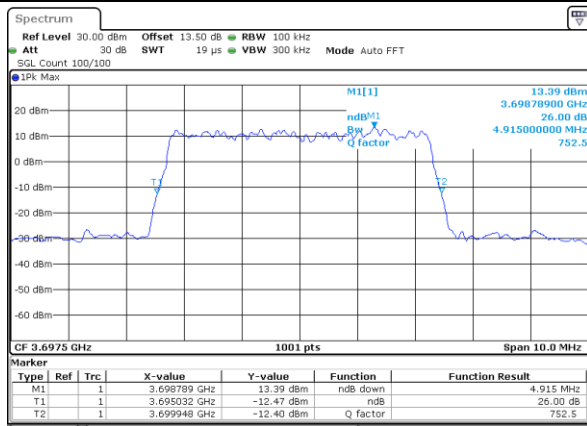
## Middle Channel / 5MHz / QPSK



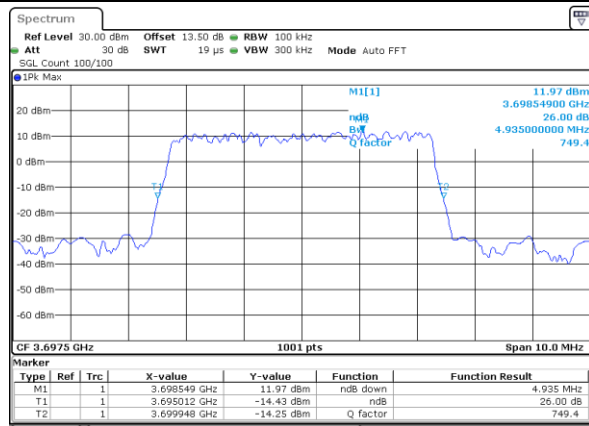
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



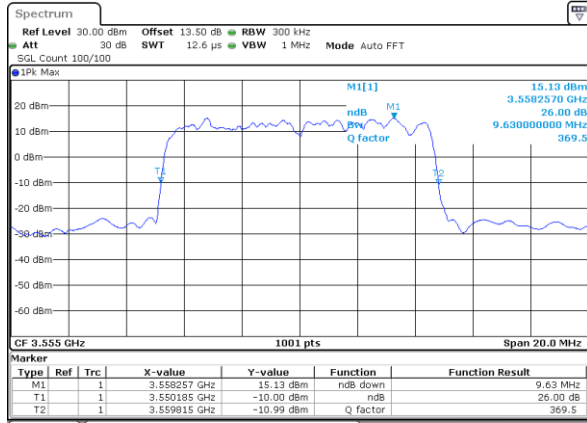
## Highest Channel / 5MHz / 16QAM





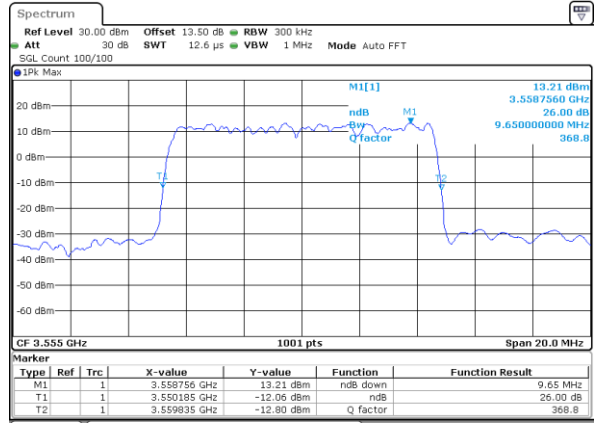
## LTE Band 48

## Lowest Channel / 10MHz / QPSK



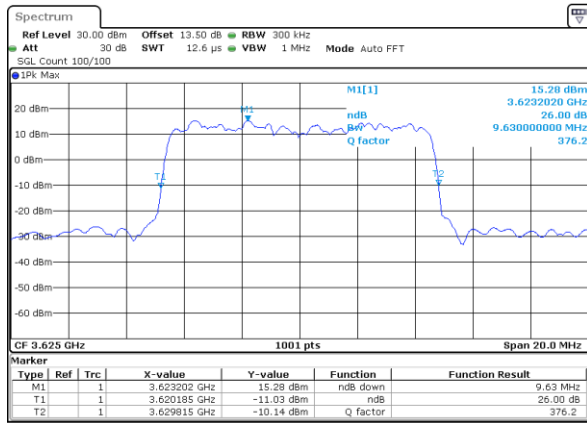
Date: 13.APR.2020 12:37:52

## Lowest Channel / 10MHz / 16QAM



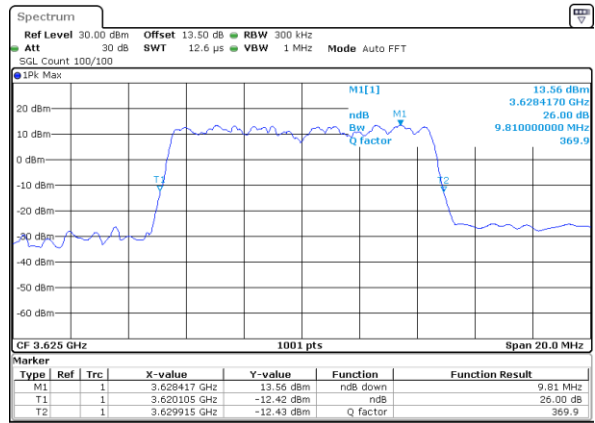
Date: 13.APR.2020 12:38:06

## Middle Channel / 10MHz / QPSK



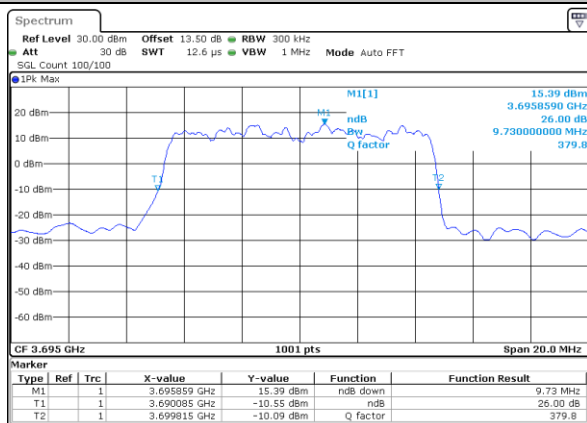
Date: 13.APR.2020 12:38:46

## Middle Channel / 10MHz / 16QAM



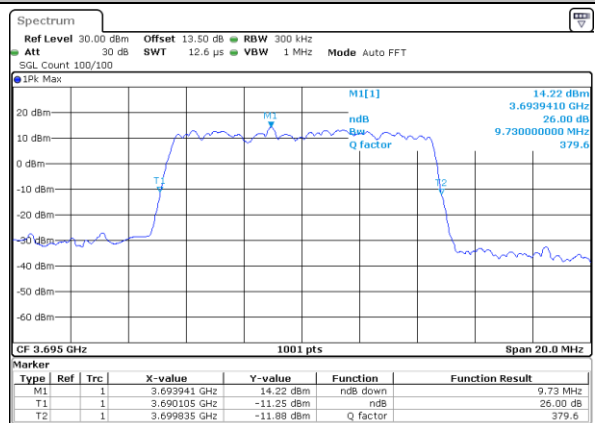
Date: 13.APR.2020 12:38:59

## Highest Channel / 10MHz / QPSK



Date: 13.APR.2020 12:39:41

## Highest Channel / 10MHz / 16QAM

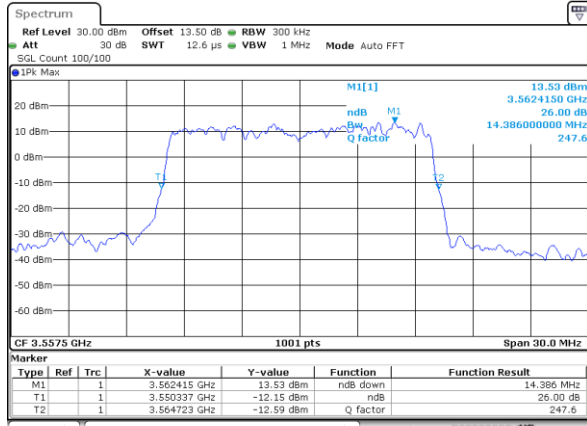


Date: 13.APR.2020 12:39:55

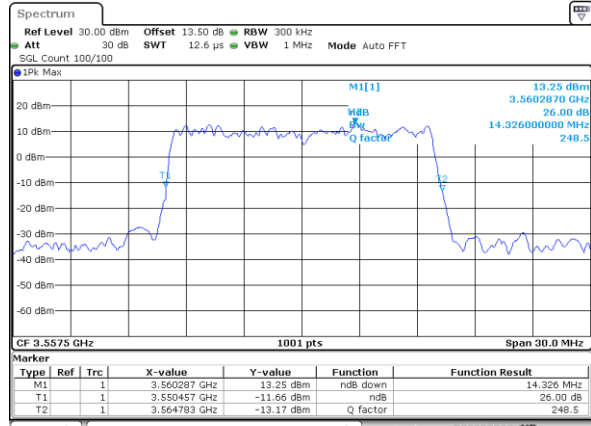


## LTE Band 48

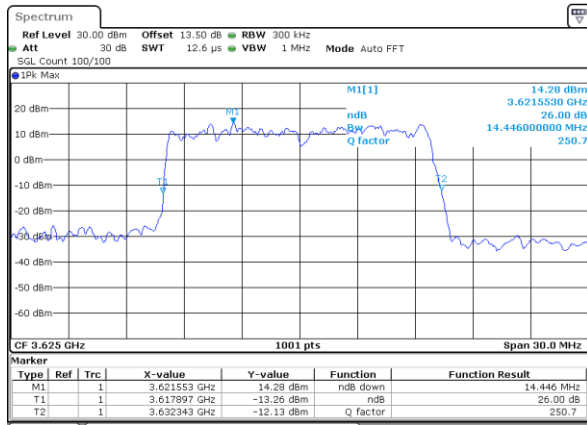
## Lowest Channel / 15MHz / QPSK



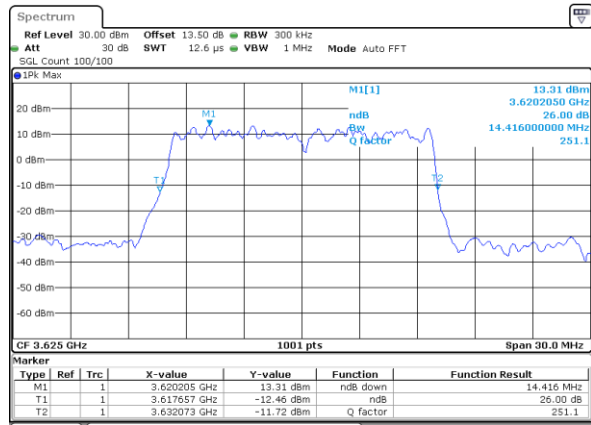
## Lowest Channel / 15MHz / 16QAM



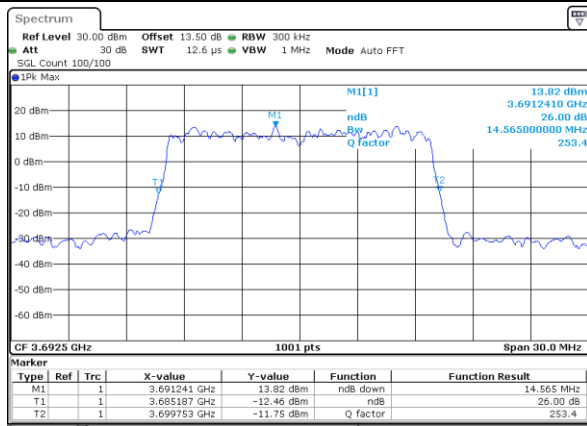
## Middle Channel / 15MHz / QPSK



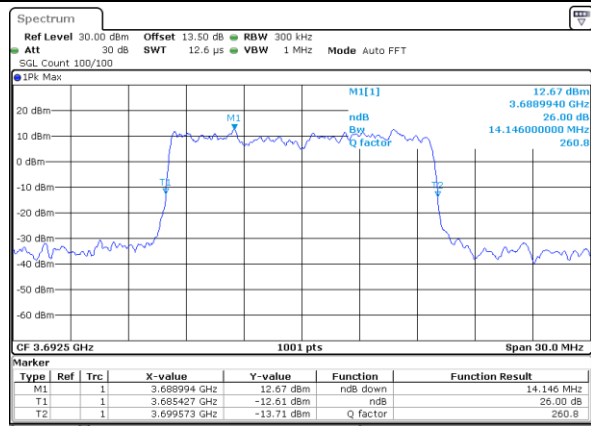
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



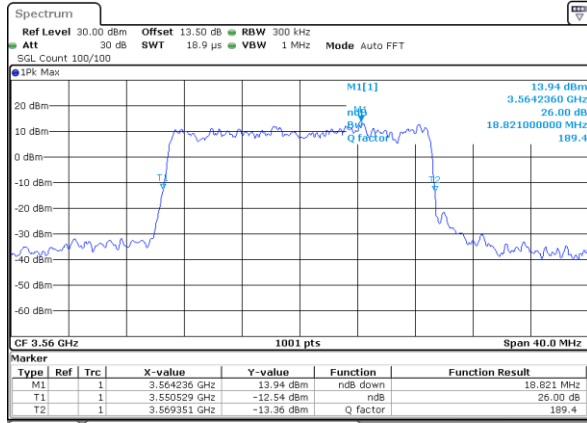
## Highest Channel / 15MHz / 16QAM





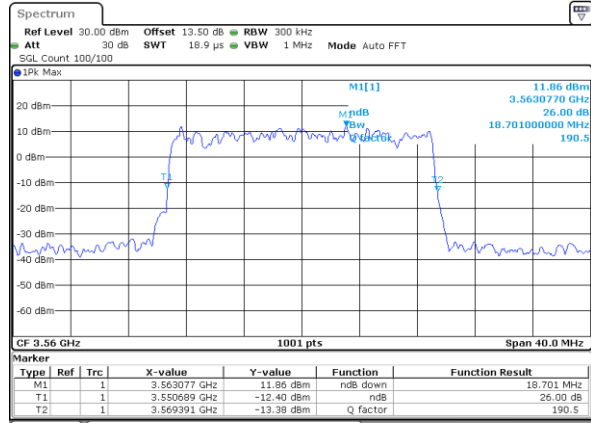
## LTE Band 48

## Lowest Channel / 20MHz / QPSK



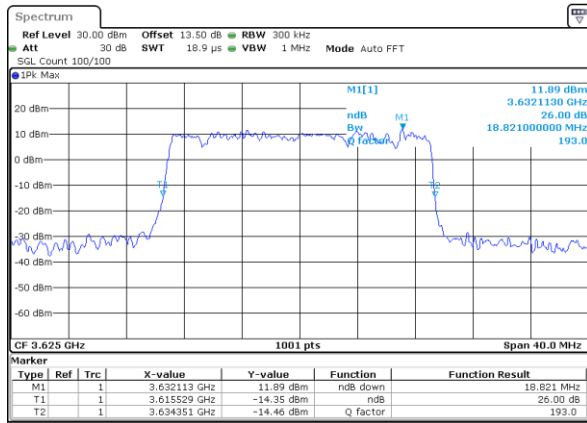
Date: 13.APR.2020 12:43:25

## Lowest Channel / 20MHz / 16QAM



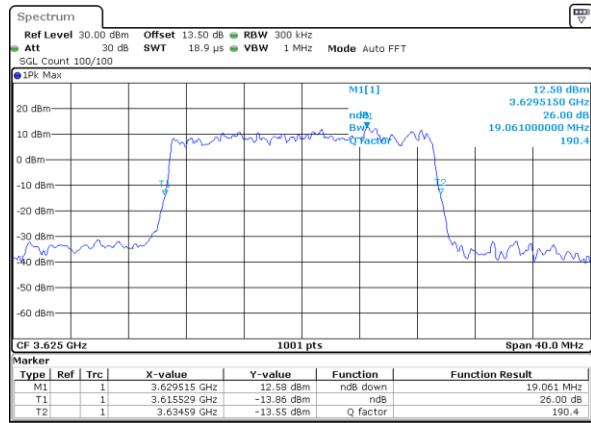
Date: 13.APR.2020 12:43:38

## Middle Channel / 20MHz / QPSK



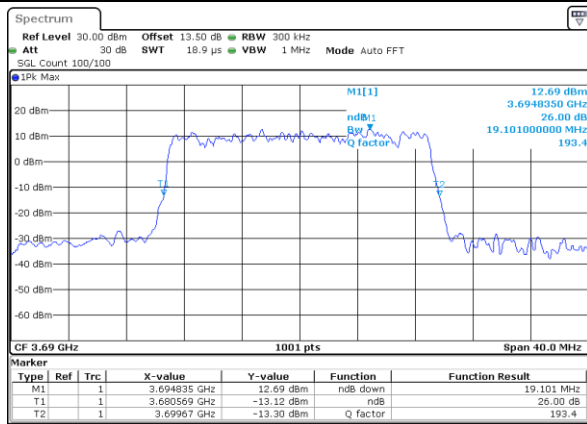
Date: 13.APR.2020 12:44:18

## Middle Channel / 20MHz / 16QAM



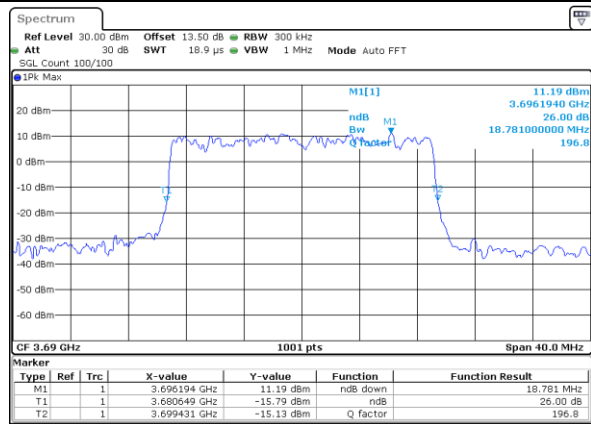
Date: 13.APR.2020 12:44:32

## Highest Channel / 20MHz / QPSK



Date: 13.APR.2020 12:45:13

## Highest Channel / 20MHz / 16QAM

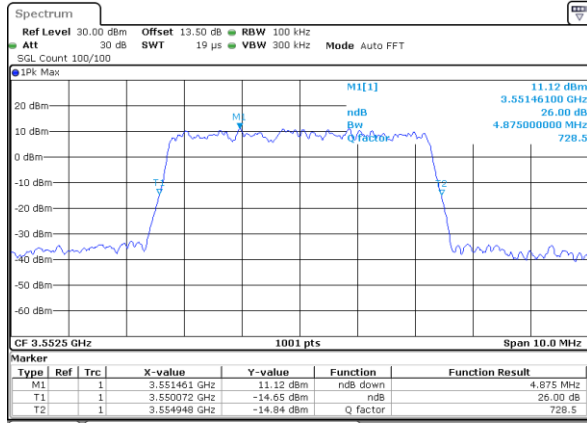


Date: 13.APR.2020 12:45:27



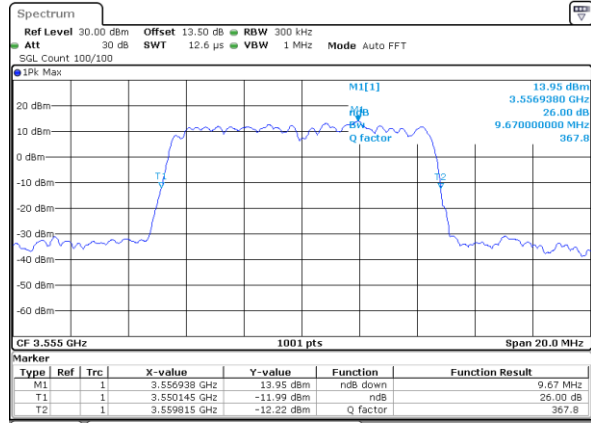
## LTE Band 48

## Lowest Channel / 5MHz / 64QAM



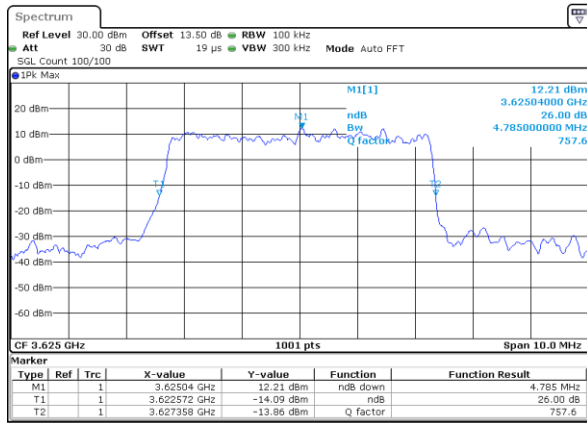
Date: 13.APR.2020 12:45:56

## Lowest Channel / 10MHz / 64QAM



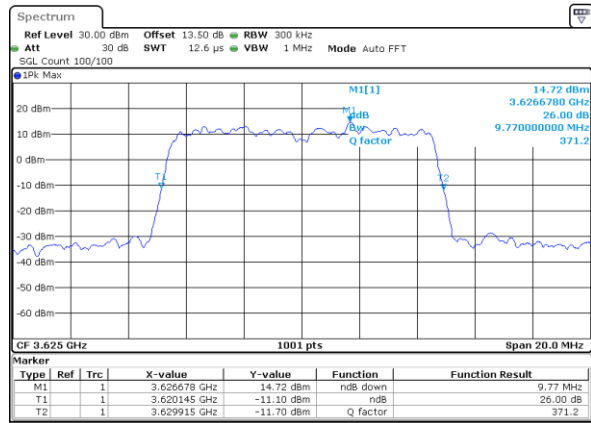
Date: 13.APR.2020 12:47:19

## Middle Channel / 5MHz / 64QAM



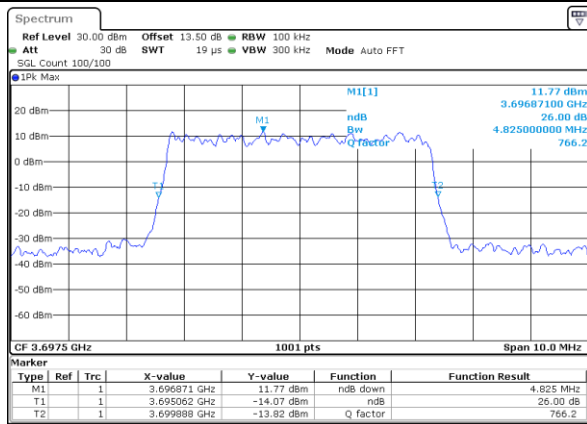
Date: 13.APR.2020 12:46:23

## Middle Channel / 10MHz / 64QAM



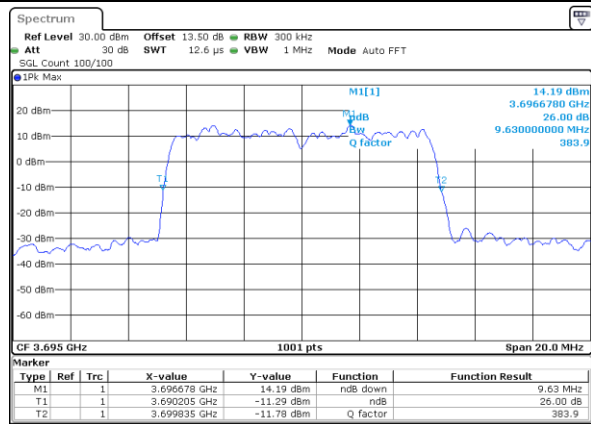
Date: 13.APR.2020 12:47:46

## Highest Channel / 5MHz / 64QAM



Date: 13.APR.2020 12:46:50

## Highest Channel / 10MHz / 64QAM

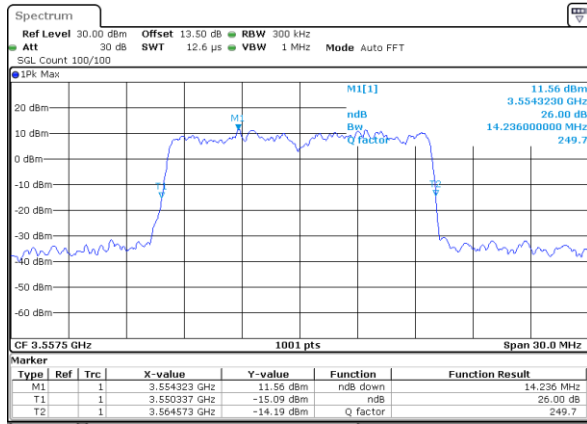


Date: 13.APR.2020 12:48:13



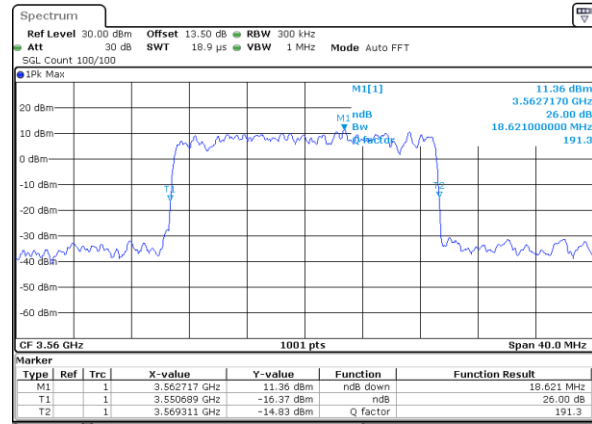
## LTE Band 48

## Lowest Channel / 15MHz / 64QAM



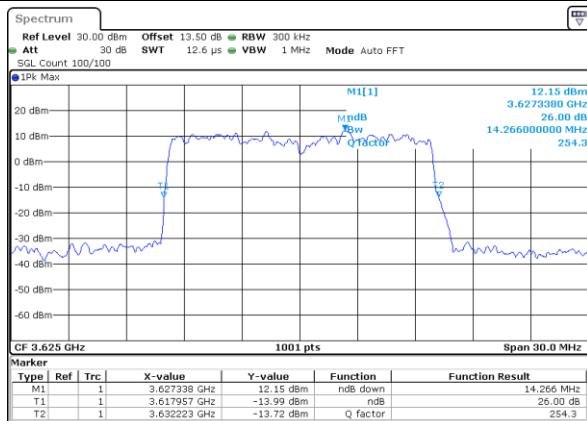
Date: 13.APR.2020 12:48:42

## Lowest Channel / 20MHz / 64QAM



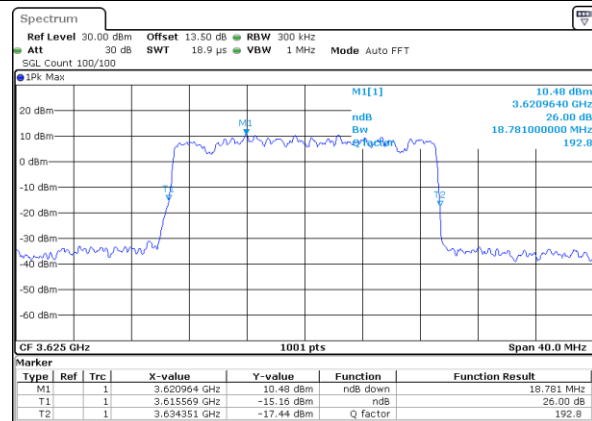
Date: 13.APR.2020 12:50:06

## Middle Channel / 15MHz / 64QAM



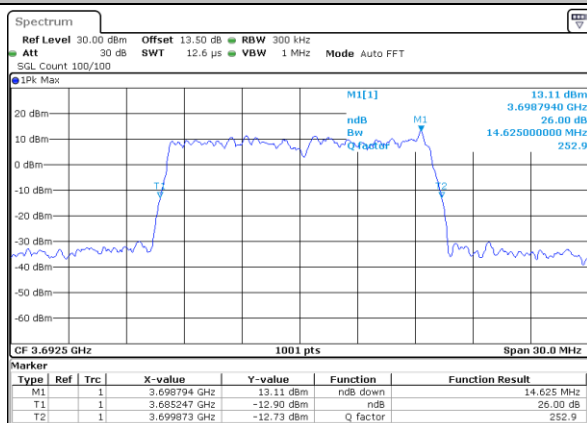
Date: 13.APR.2020 12:49:09

## Middle Channel / 20MHz / 64QAM



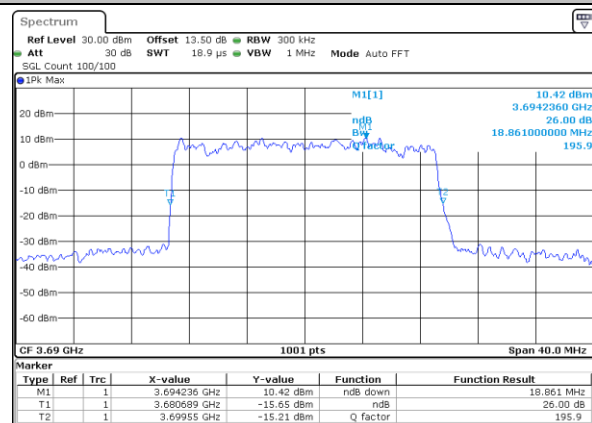
Date: 13.APR.2020 12:50:32

## Highest Channel / 15MHz / 64QAM



Date: 13.APR.2020 12:49:36

## Highest Channel / 20MHz / 64QAM

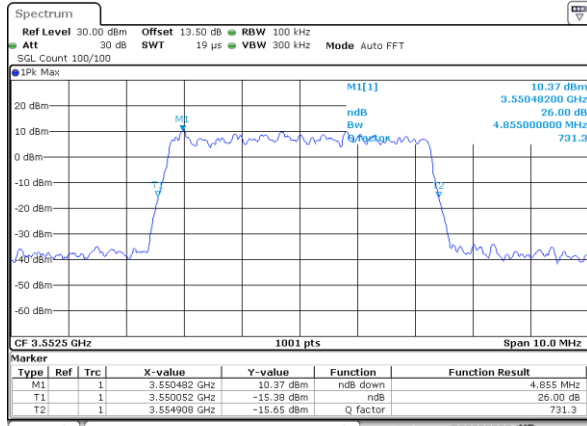


Date: 13.APR.2020 12:51:00



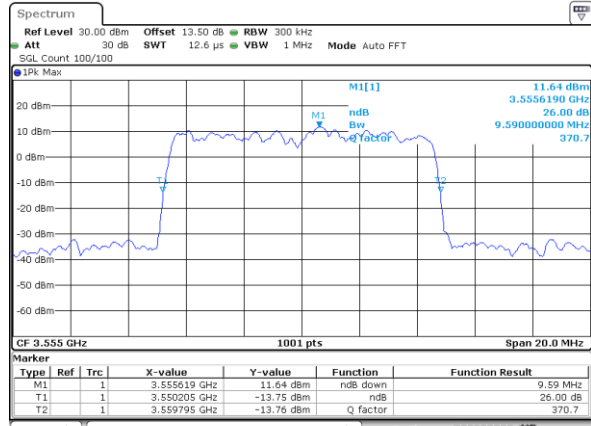
## LTE Band 48

## Lowest Channel / 5MHz / 256QAM



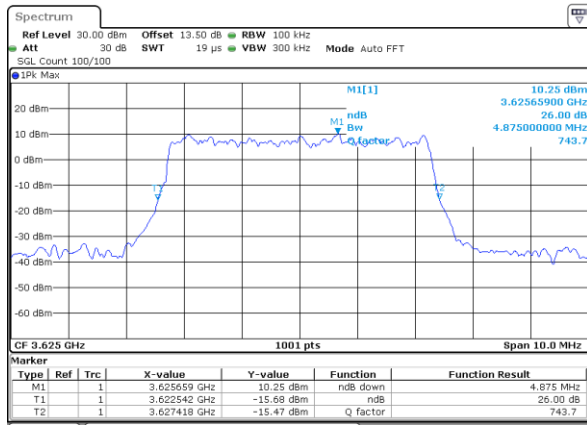
Date: 13.APR.2020 14:18:25

## Lowest Channel / 10MHz / 256QAM



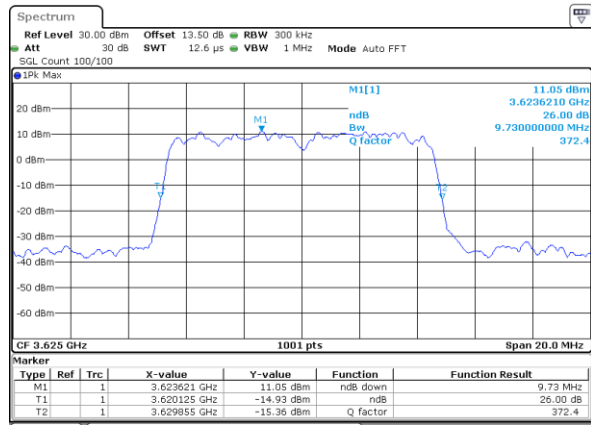
Date: 13.APR.2020 14:07:09

## Middle Channel / 5MHz / 256QAM



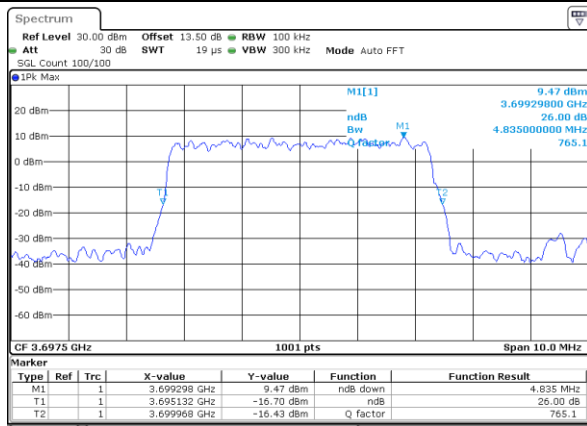
Date: 13.APR.2020 14:20:12

## Middle Channel / 10MHz / 256QAM



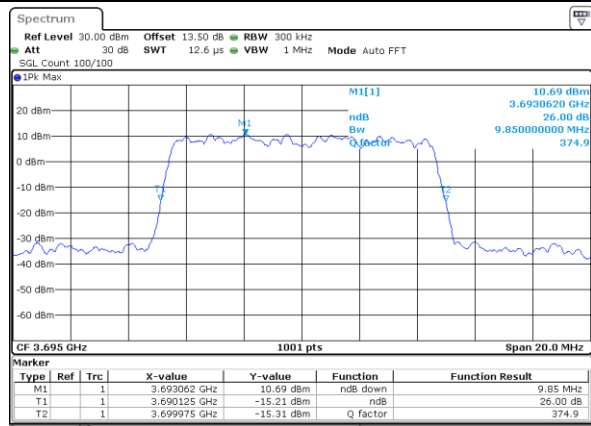
Date: 13.APR.2020 14:14:02

## Highest Channel / 5MHz / 256QAM



Date: 13.APR.2020 14:22:12

## Highest Channel / 10MHz / 256QAM

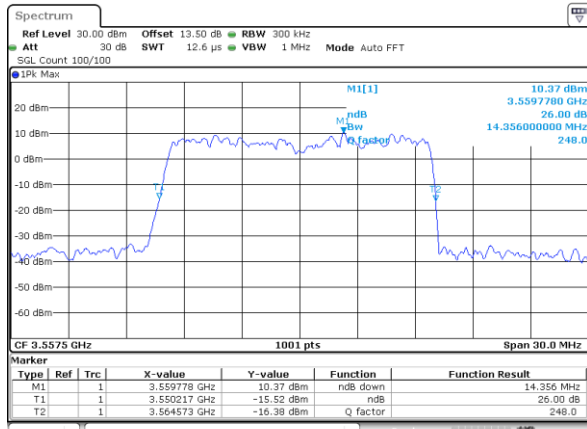


Date: 13.APR.2020 14:15:47



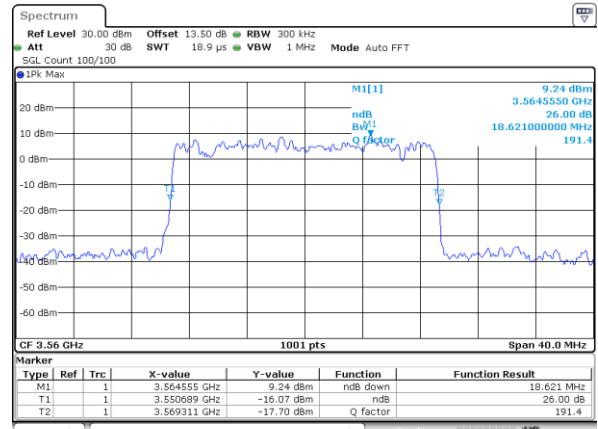
## LTE Band 48

## Lowest Channel / 15MHz / 256QAM



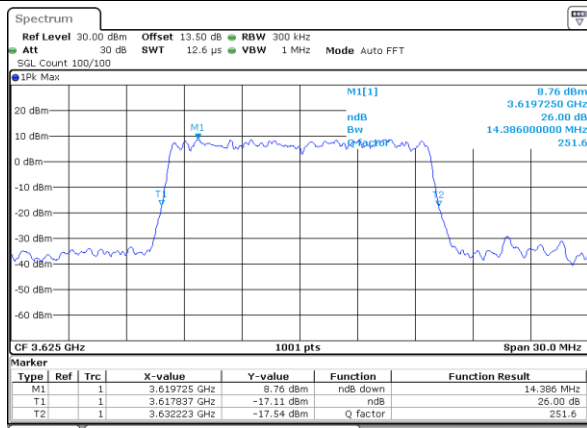
Date: 13.APR.2020 13:55:46

## Lowest Channel / 20MHz / 256QAM



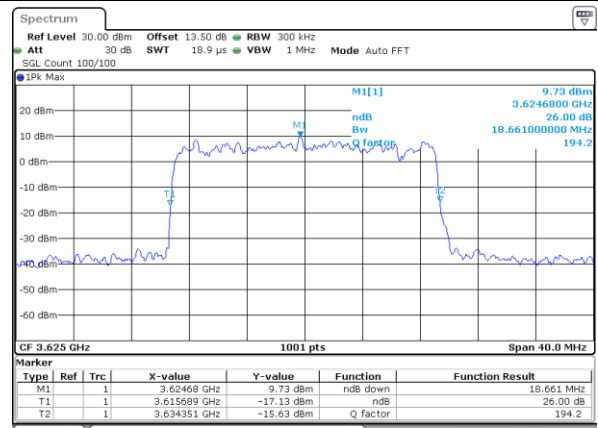
Date: 13.APR.2020 13:56:05

## Middle Channel / 15MHz / 256QAM



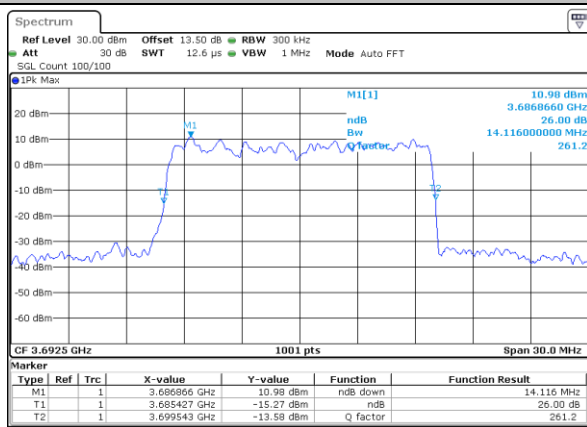
Date: 13.APR.2020 13:56:12

## Middle Channel / 20MHz / 256QAM



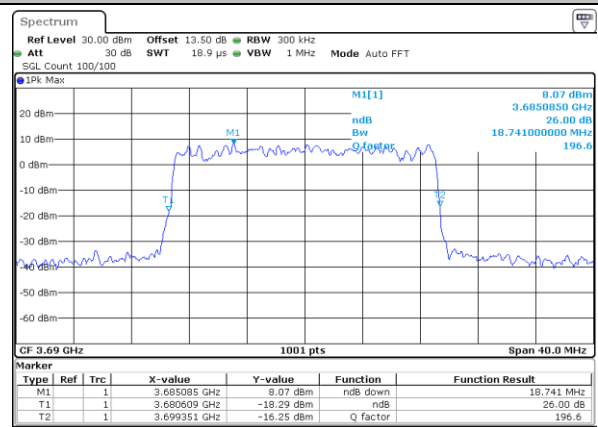
Date: 13.APR.2020 13:56:01

## Highest Channel / 15MHz / 256QAM



Date: 13.APR.2020 13:59:45

## Highest Channel / 20MHz / 256QAM



Date: 13.APR.2020 13:26:27

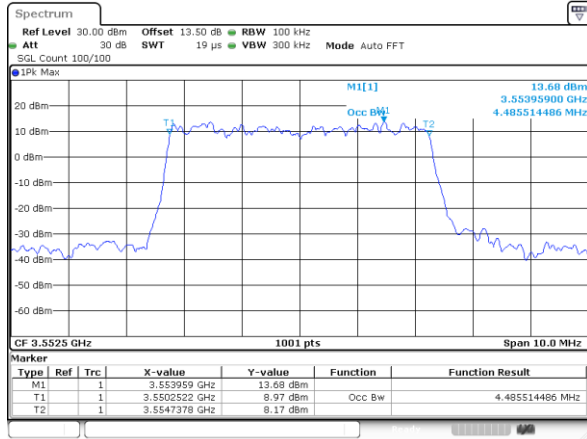
**Occupied Bandwidth**

| Mode       | LTE Band 48 : 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  | -                         | -     | -     | -     | 4.49  | 4.48   | 9.03  | 9.05   | 13.40 | 13.49  | 17.98 | 17.90  |
| Middle CH  | -                         | -     | -     | -     | 4.51  | 4.50   | 9.05  | 9.01   | 13.52 | 13.46  | 17.82 | 17.82  |
| Highest CH | -                         | -     | -     | -     | 4.48  | 4.48   | 9.03  | 9.07   | 13.46 | 13.43  | 17.94 | 17.86  |
| Mode       | LTE Band 48 : 99%OBW(MHz) |       |       |       |       |        |       |        |       |        |       |        |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | -                         | -     | -     | -     | 4.55  | 4.47   | 8.99  | 8.99   | 13.40 | 13.40  | 17.78 | 17.94  |
| Middle CH  | -                         | -     | -     | -     | 4.48  | 4.47   | 9.01  | 8.97   | 13.43 | 13.43  | 17.98 | 17.86  |
| Highest CH | -                         | -     | -     | -     | 4.49  | 4.48   | 9.03  | 8.97   | 13.55 | 13.43  | 17.90 | 17.86  |

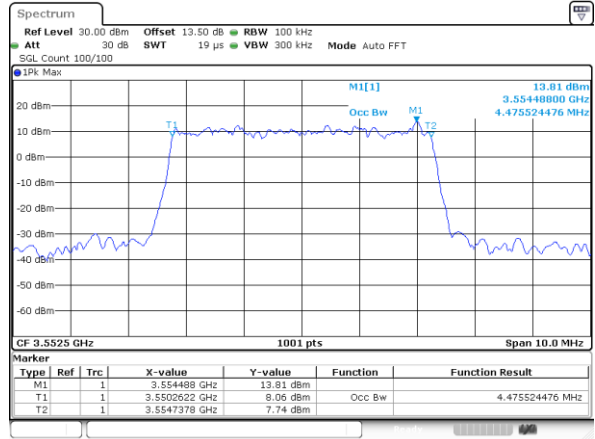


## LTE Band 48

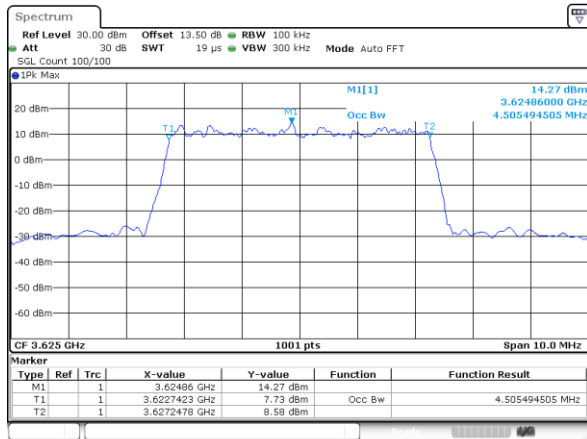
## Lowest Channel / 5MHz / QPSK



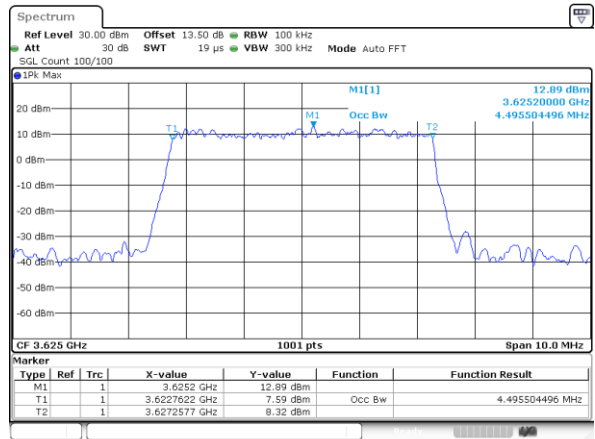
## Lowest Channel / 5MHz / 16QAM



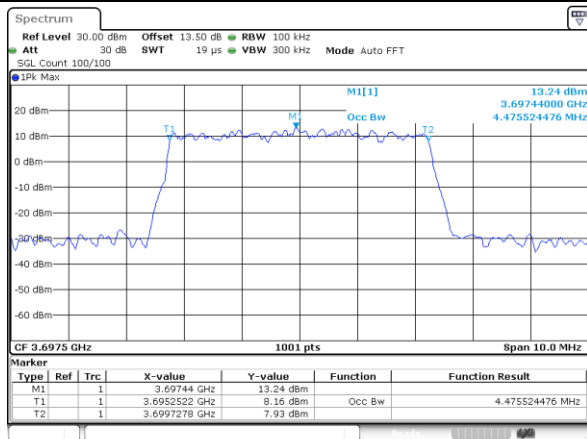
## Middle Channel / 5MHz / QPSK



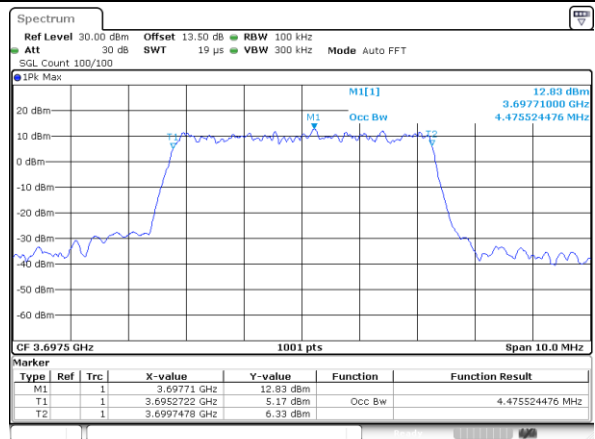
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



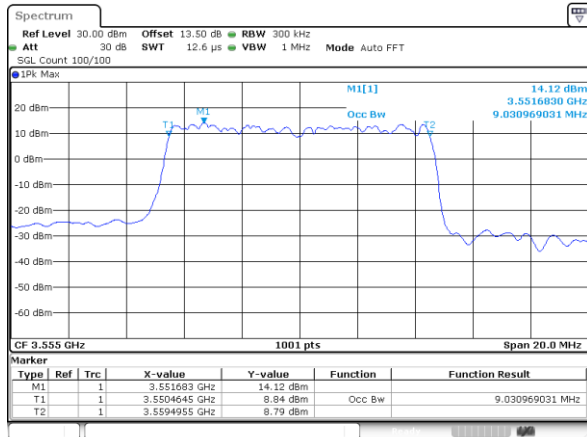
## Highest Channel / 5MHz / 16QAM



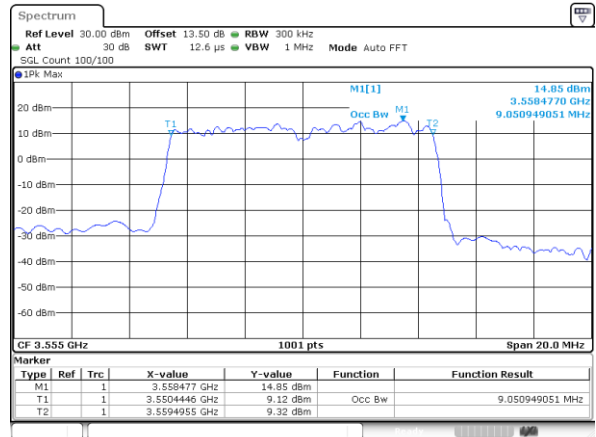


## LTE Band 48

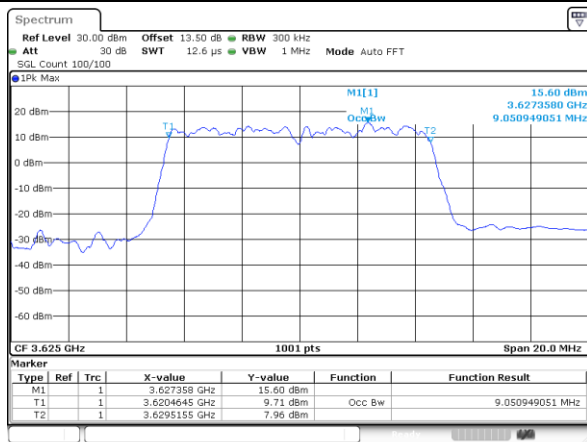
## Lowest Channel / 10MHz / QPSK



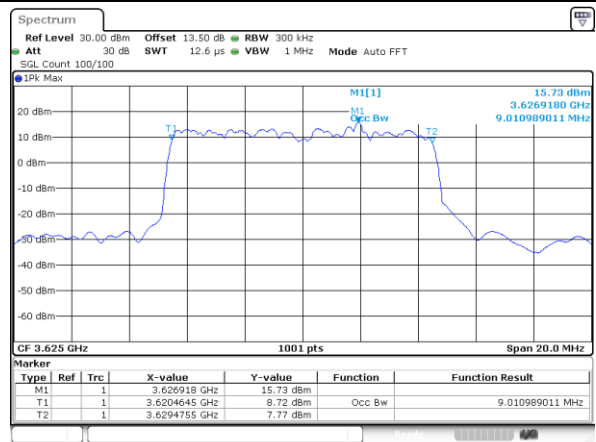
## Lowest Channel / 10MHz / 16QAM



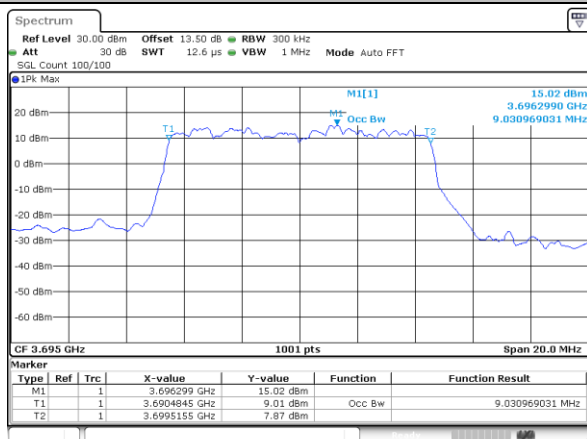
## Middle Channel / 10MHz / QPSK



## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM

