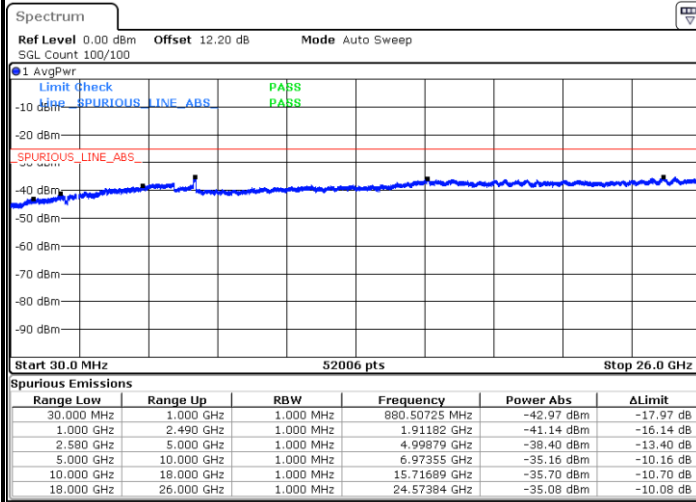




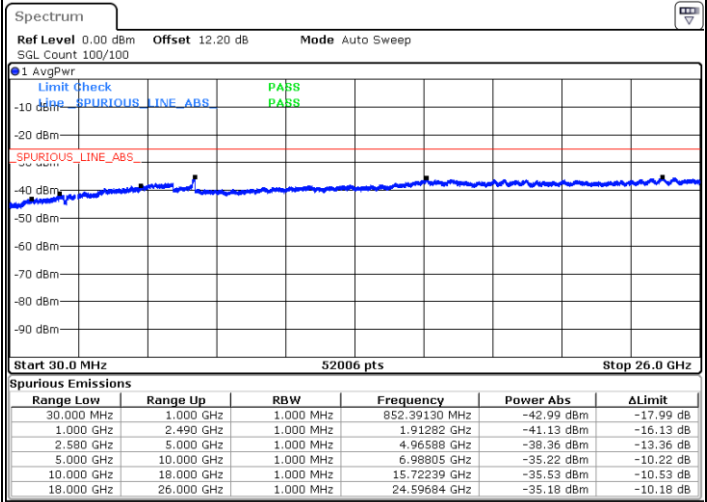
## LTE Band 7 / 15MHz

## Lowest Channel / 64QAM



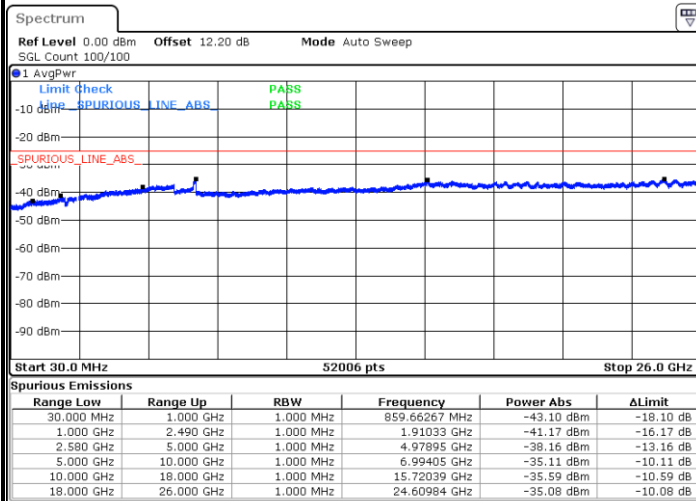
Date: 20.APR.2020 14:59:47

## Middle Channel / 64QAM



Date: 20.APR.2020 15:01:04

## Highest Channel / 64QAM

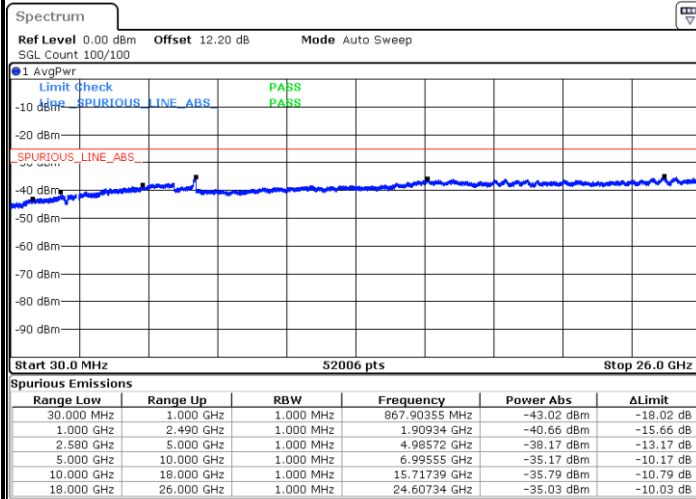


Date: 20.APR.2020 15:03:25



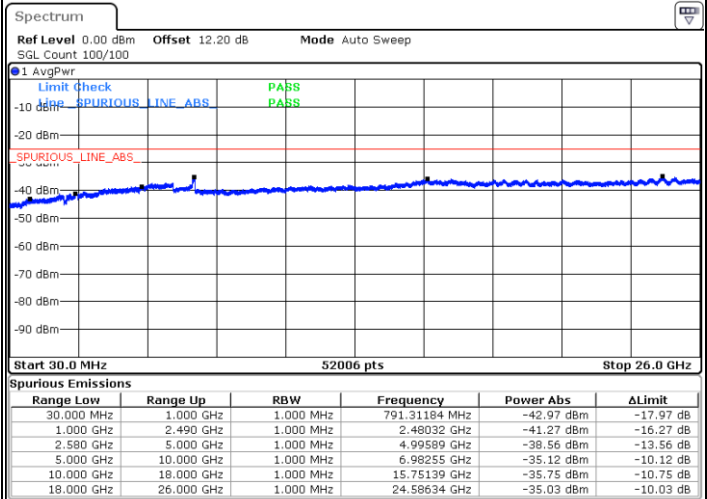
## LTE Band 7 / 20MHz

## Lowest Channel / 64QAM



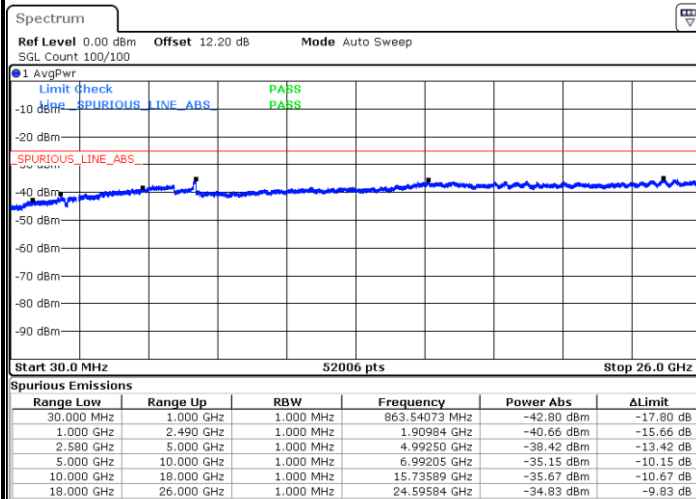
Date: 20.APR.2020 15:17:44

## Middle Channel / 64QAM



Date: 20.APR.2020 15:19:00

## Highest Channel / 64QAM



Date: 20.APR.2020 15:21:20

## Frequency Stability

| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0035                             | PASS    |
| 40               | Normal Voltage    | 0.0028                             |         |
| 30               | Normal Voltage    | 0.0004                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0005                             |         |
| 0                | Normal Voltage    | 0.0035                             |         |
| -10              | Normal Voltage    | 0.0018                             |         |
| -20              | Normal Voltage    | 0.0030                             |         |
| -30              | Normal Voltage    | 0.0058                             |         |
| 20               | Maximum Voltage   | 0.0026                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0004                             |         |

**Note:**

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7C

**26dB Bandwidth**

| Mode       | LTE Band 7C : 26dB BW(MHz) |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|
| QPSK       |                            |             |             |             |
| BW         | 10MHz+20MHz                | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.91                      | 25.18       | 30.45       | 34.83       |
| Middle CH  | 29.85                      | 25.18       | 30.75       | 34.76       |
| Highest CH | 29.85                      | 25.23       | 30.45       | 34.97       |
| BW         | 20MHz+10MHz                | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 30.09                      | 34.90       | 39.72       | -           |
| Middle CH  | 30.15                      | 35.04       | 39.80       | -           |
| Highest CH | 30.09                      | 35.11       | 39.72       | -           |

| Mode       | LTE Band 7C : 26dB BW(MHz) |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|
| 16QAM      |                            |             |             |             |
| BW         | 10MHz+20MHz                | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.91                      | 25.23       | 30.75       | 34.83       |
| Middle CH  | 29.97                      | 25.18       | 30.51       | 34.76       |
| Highest CH | 29.79                      | 25.08       | 30.57       | 34.76       |
| BW         | 20MHz+10MHz                | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 29.85                      | 34.97       | 39.56       | -           |
| Middle CH  | 29.97                      | 34.97       | 39.80       | -           |
| Highest CH | 29.97                      | 35.04       | 39.88       | -           |

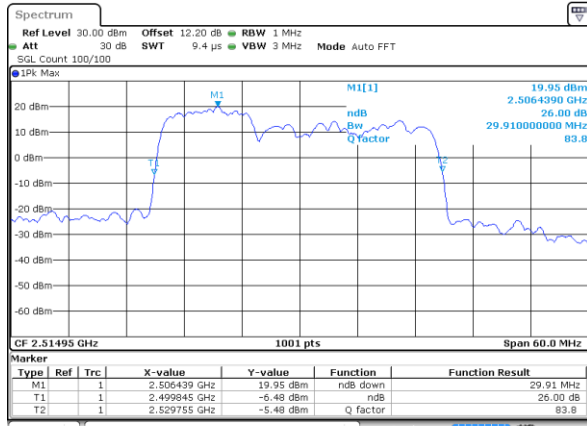
| Mode       | LTE Band 7C : 26dB BW(MHz) |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|
| 64QAM      |                            |             |             |             |
| BW         | 10MHz+20MHz                | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.79                      | 25.28       | 30.51       | 34.62       |
| Middle CH  | 29.73                      | 25.18       | 30.45       | 34.62       |
| Highest CH | 30.03                      | 25.03       | 30.57       | 34.76       |
| BW         | 20MHz+10MHz                | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 30.09                      | 34.83       | 39.72       | -           |
| Middle CH  | 29.85                      | 35.04       | 39.80       | -           |
| Highest CH | 30.03                      | 34.90       | 39.80       | -           |



## LTE Band 7C

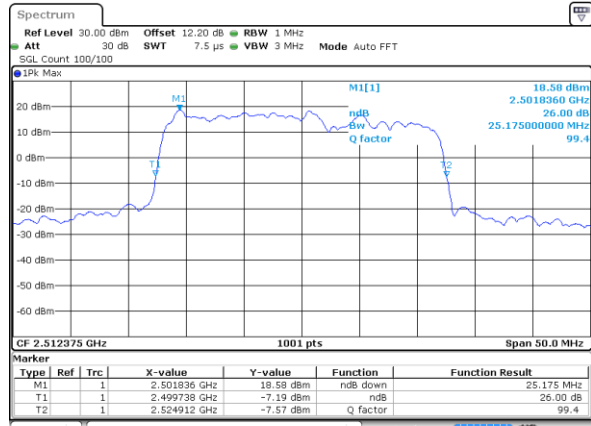
## QPSK

## Lowest Channel / 10MHz+20MHz



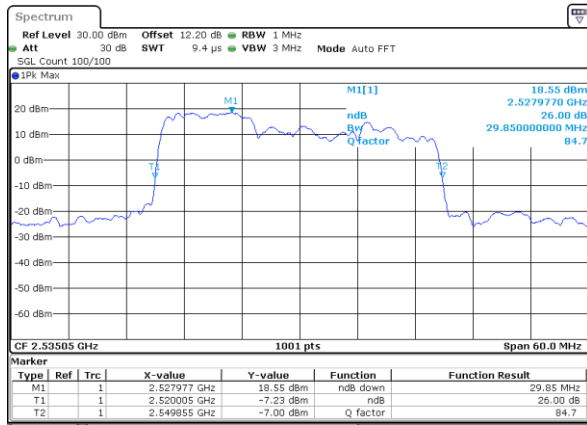
Date: 19 MAY 2020 03:52:29

## Lowest Channel / 15MHz+10MHz



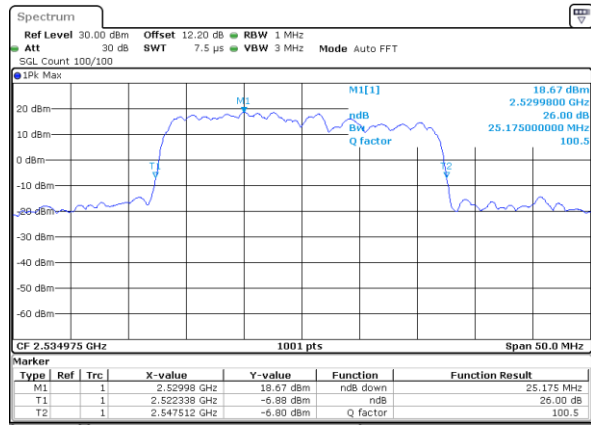
Date: 20 MAY 2020 02:50:44

## Middle Channel / 10MHz+20MHz



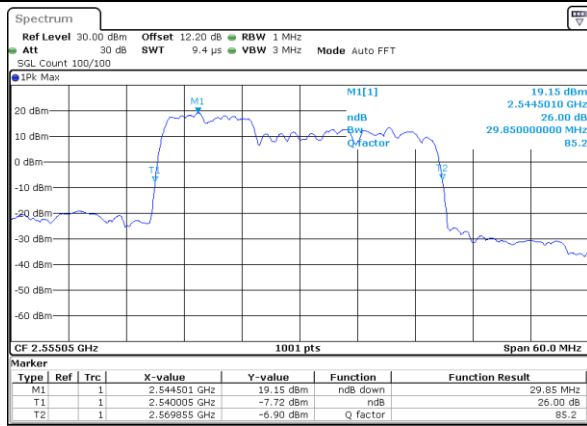
Date: 19 MAY 2020 04:13:53

## Middle Channel / 15MHz+10MHz



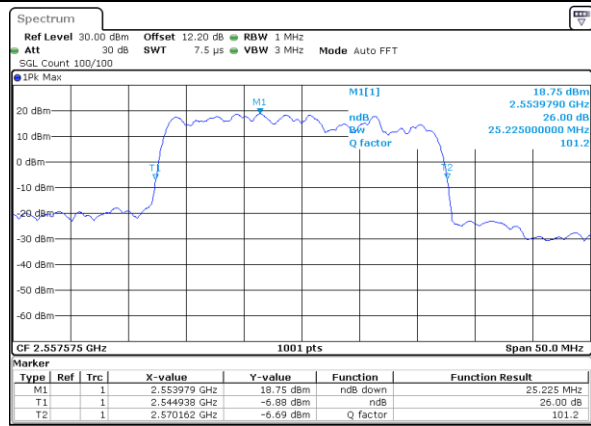
Date: 20 MAY 2020 03:12:30

## Highest Channel / 10MHz+20MHz



Date: 19 MAY 2020 04:28:20

## Highest Channel / 15MHz+10MHz



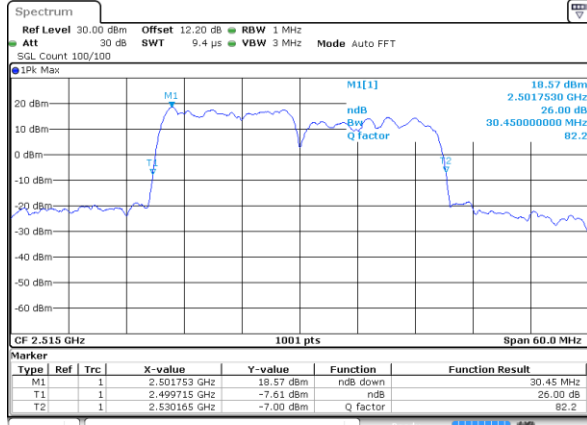
Date: 20 MAY 2020 03:29:18



## LTE Band 7C

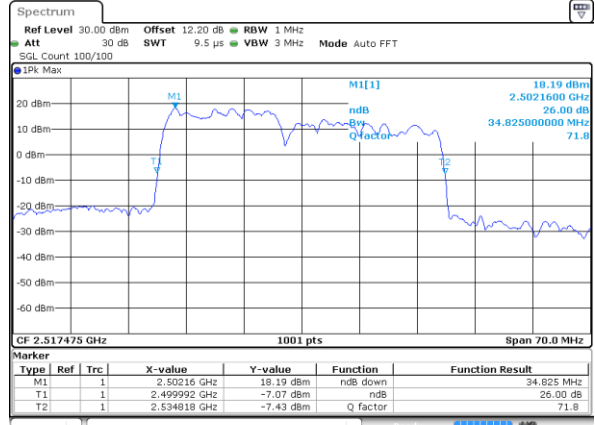
## QPSK

## Lowest Channel / 15MHz+15MHz



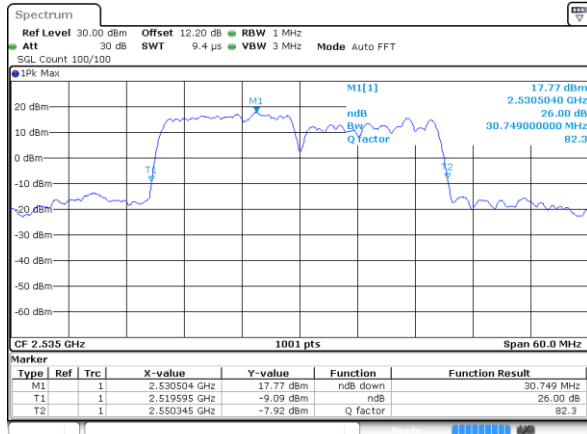
Date: 19 MAY 2020 05:56:53

## Lowest Channel / 15MHz+20MHz



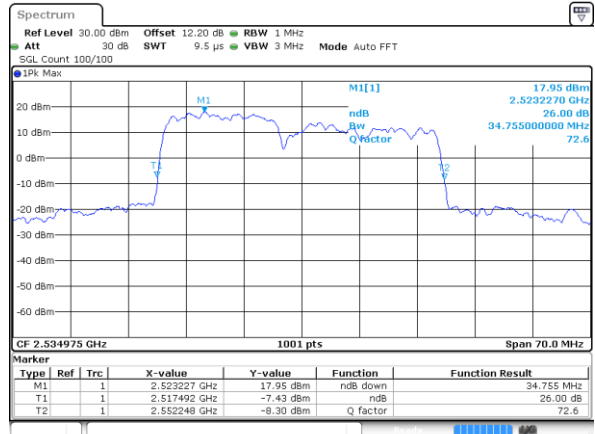
Date: 19 MAY 2020 07:04:01

## Middle Channel / 15MHz+15MHz



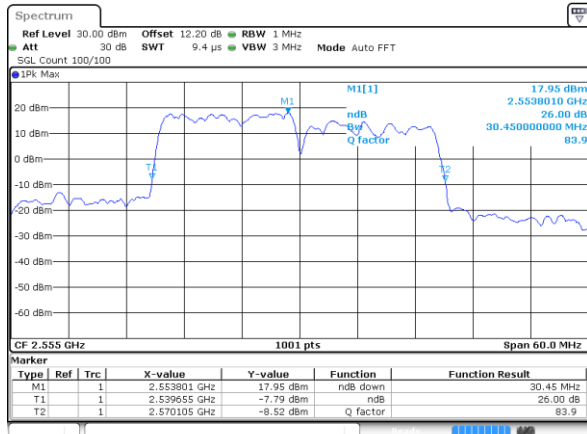
Date: 19 MAY 2020 06:25:18

## Middle Channel / 15MHz+20MHz



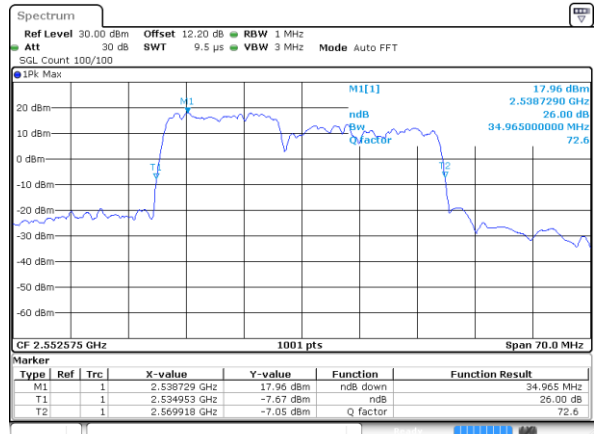
Date: 19 MAY 2020 07:26:13

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:39:15

## Highest Channel / 15MHz+20MHz



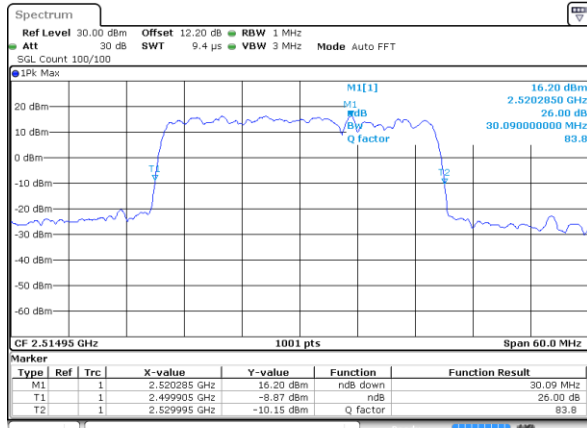
Date: 19 MAY 2020 07:38:20



## LTE Band 7C

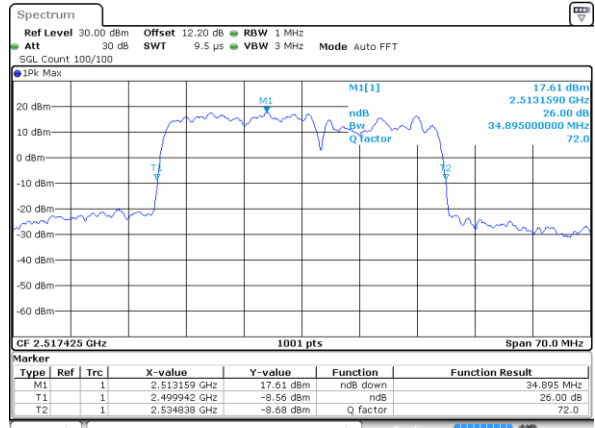
## QPSK

## Lowest Channel / 20MHz+10MHz



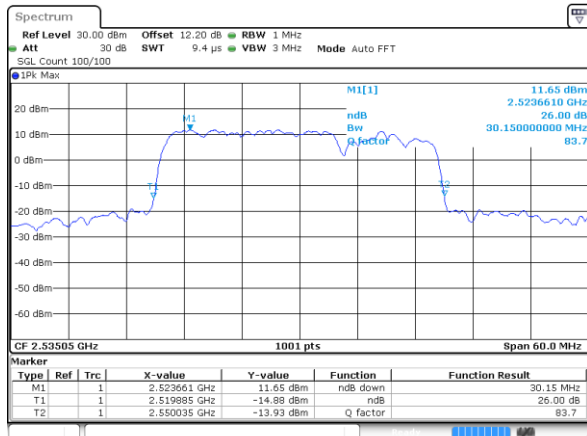
Date: 19 MAY 2020 04:50:51

## Lowest Channel / 20MHz+15MHz



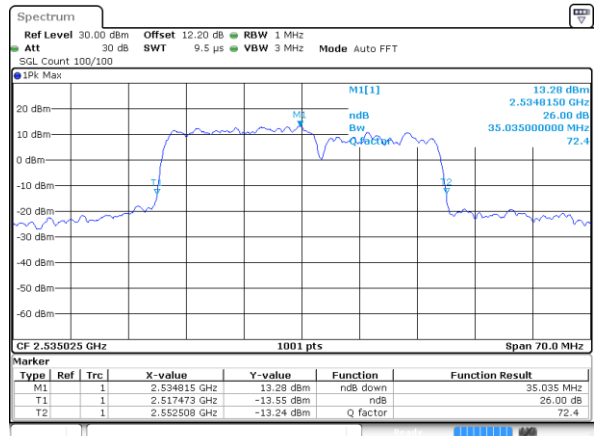
Date: 19 MAY 2020 08:02:36

## Middle Channel / 20MHz+10MHz



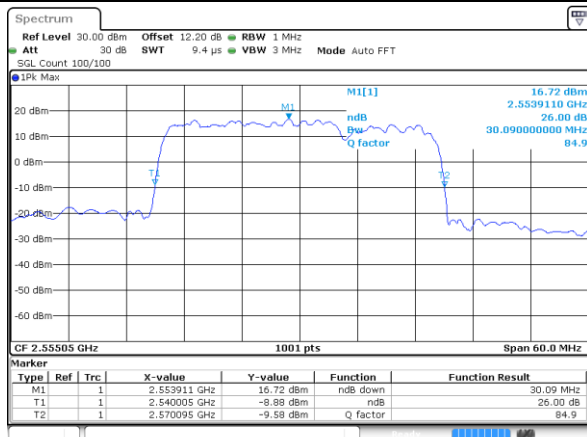
Date: 19 MAY 2020 05:11:52

## Middle Channel / 20MHz+15MHz



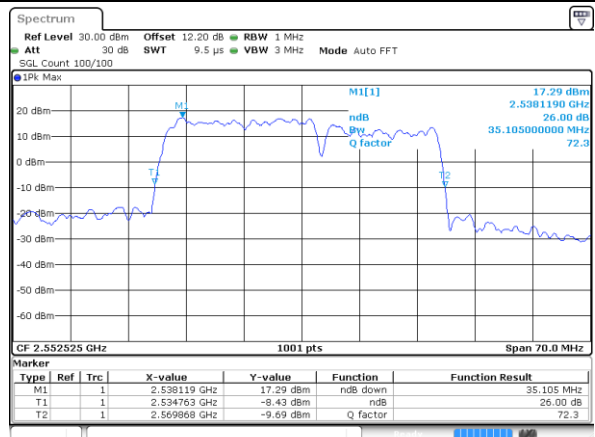
Date: 20 MAY 2020 00:36:53

## Highest Channel / 20MHz+10MHz



Date: 19 MAY 2020 05:33:51

## Highest Channel / 20MHz+15MHz



Date: 20 MAY 2020 00:50:33

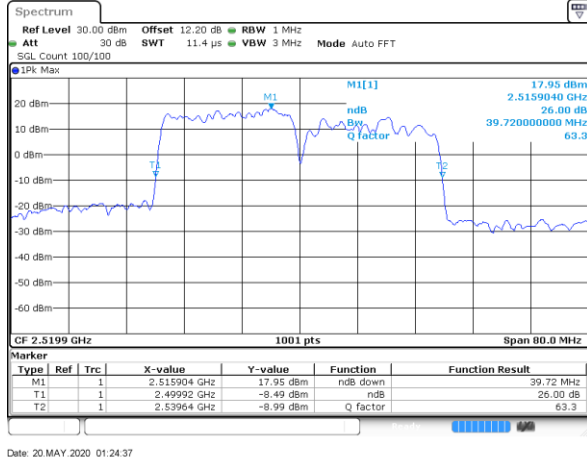


## LTE Band 7C

## QPSK

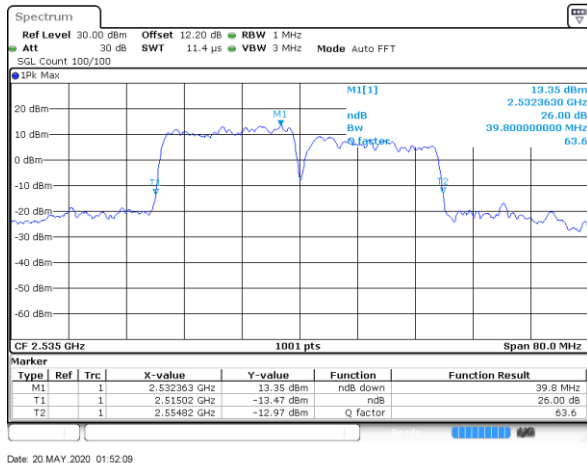
## Lowest Channel / 20MHz+20MHz

N/A



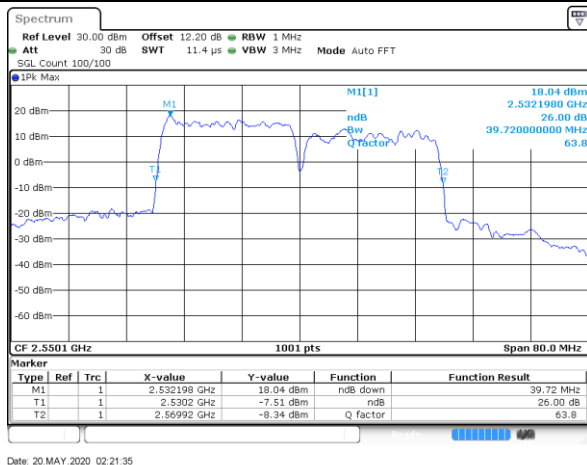
## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A

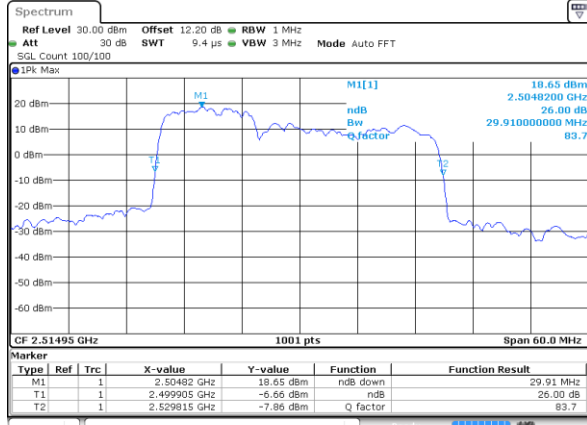




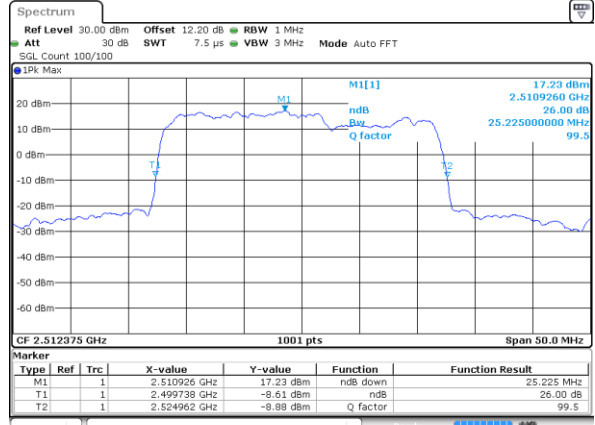
## LTE Band 7C

## 16QAM

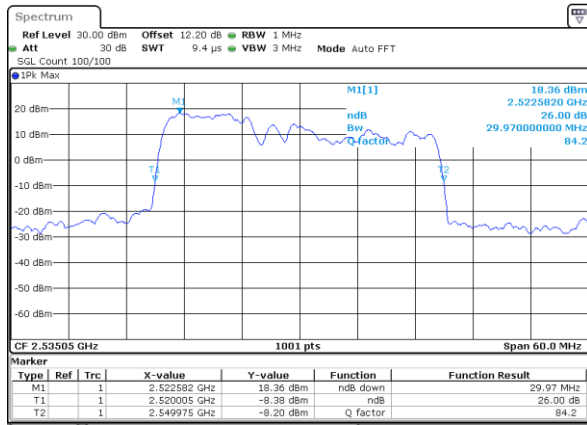
## Lowest Channel / 10MHz+20MHz



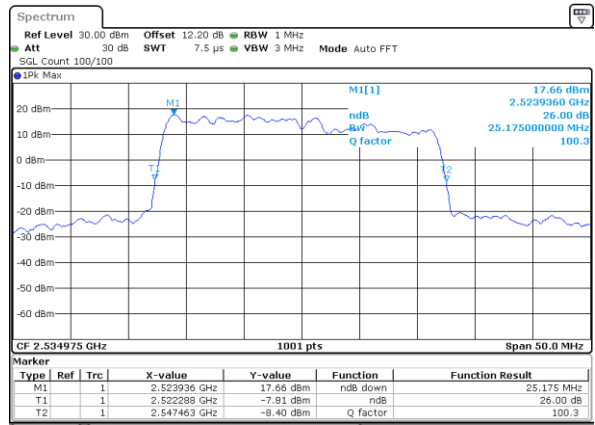
## Lowest Channel / 15MHz+10MHz



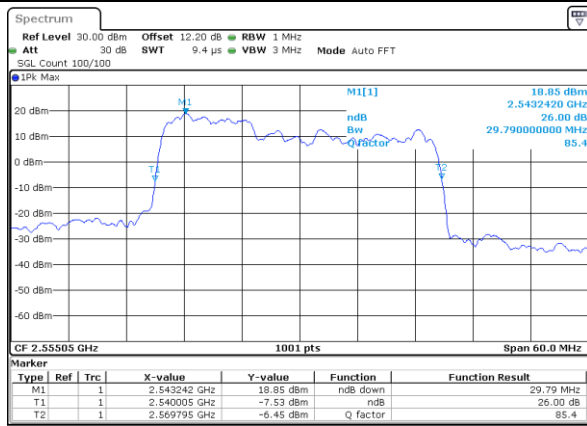
## Middle Channel / 10MHz+20MHz



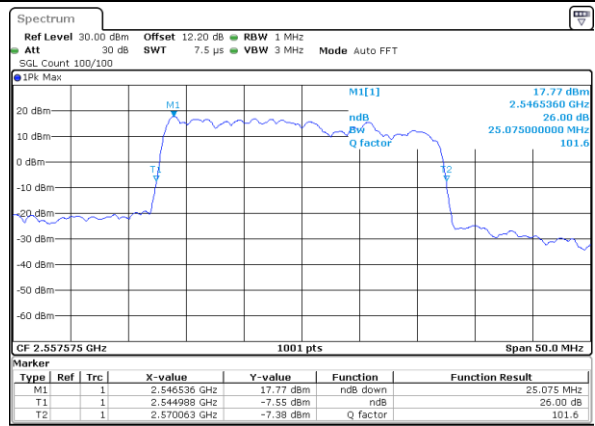
## Middle Channel / 15MHz+10MHz



## Highest Channel / 10MHz+20MHz



## Highest Channel / 15MHz+10MHz

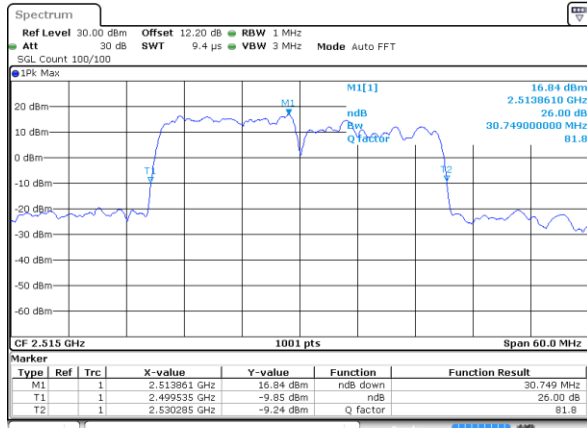




## LTE Band 7C

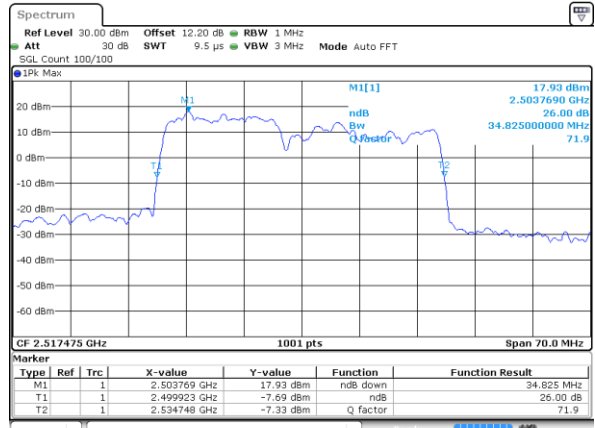
## 16QAM

## Lowest Channel / 15MHz+15MHz



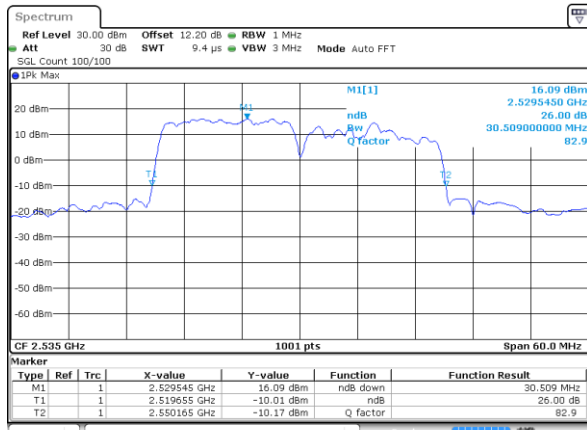
Date: 19 MAY 2020 05:56:31

## Lowest Channel / 15MHz+20MHz



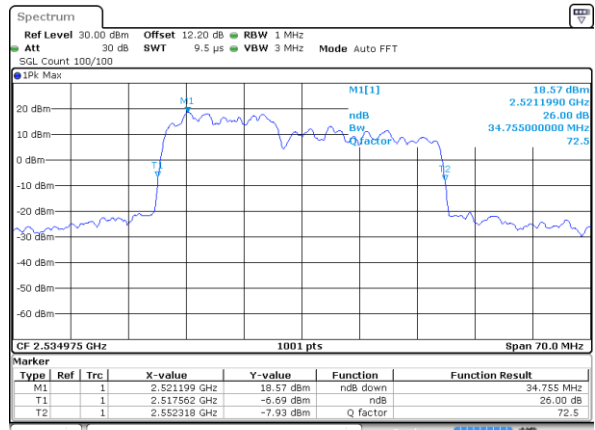
Date: 19 MAY 2020 07:03:38

## Middle Channel / 15MHz+15MHz



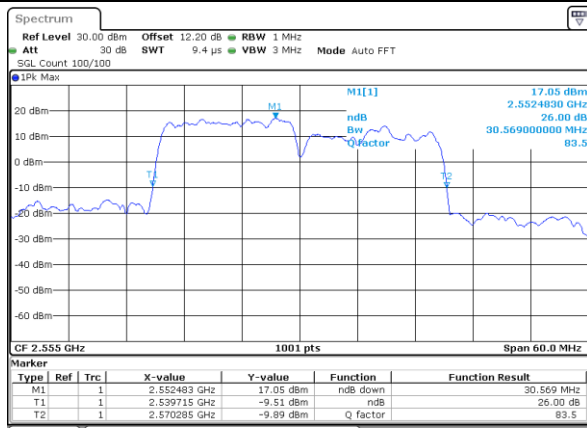
Date: 19 MAY 2020 06:24:55

## Middle Channel / 15MHz+20MHz



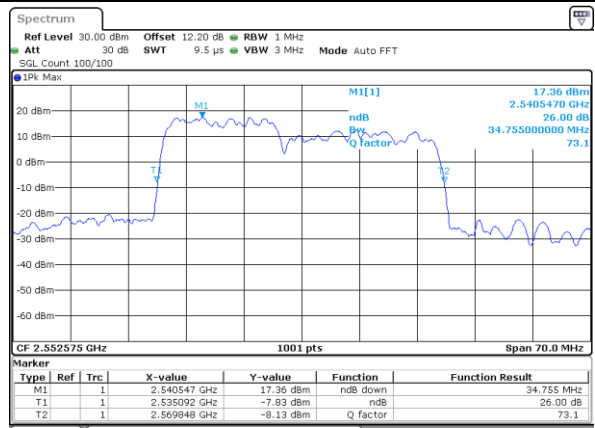
Date: 19 MAY 2020 07:25:51

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:39:38

## Highest Channel / 15MHz+20MHz



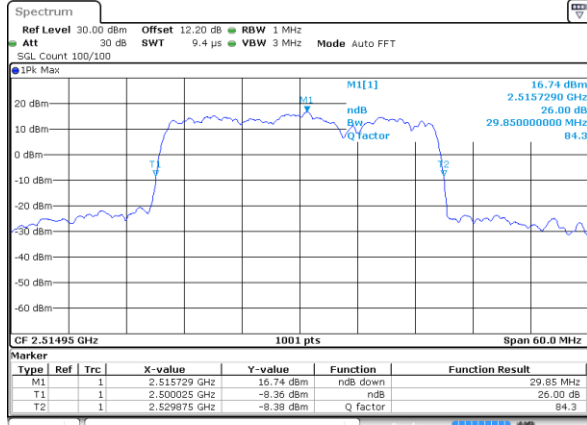
Date: 19 MAY 2020 07:38:42



## LTE Band 7C

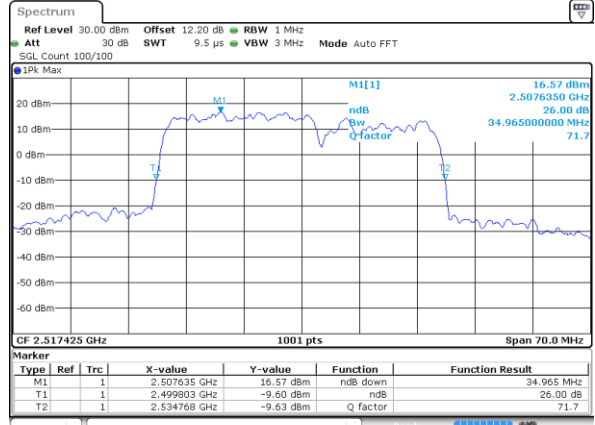
## 16QAM

## Lowest Channel / 20MHz+10MHz



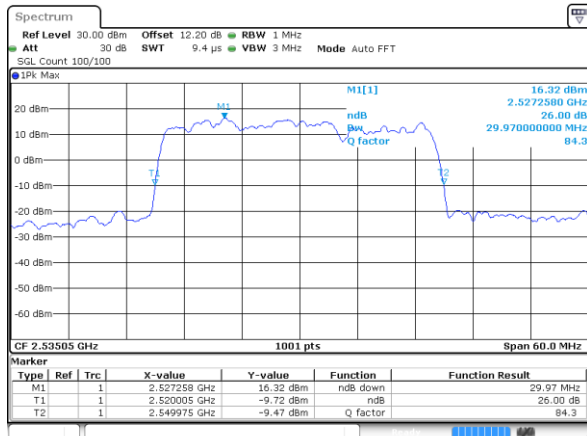
Date: 19 MAY 2020 04:50:29

## Lowest Channel / 20MHz+15MHz



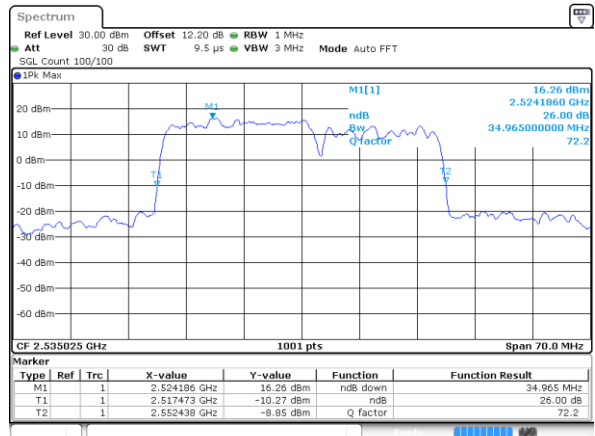
Date: 19 MAY 2020 08:02:13

## Middle Channel / 20MHz+10MHz



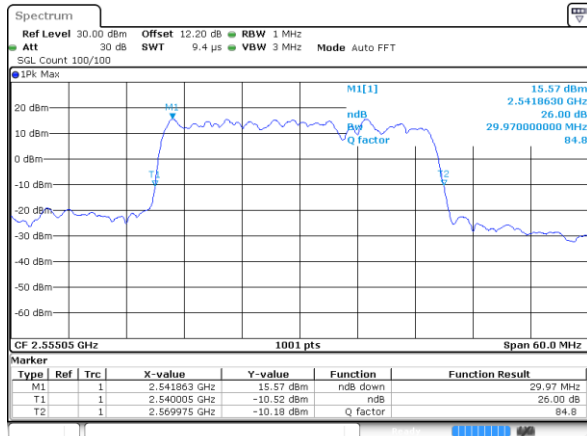
Date: 19 MAY 2020 05:11:29

## Middle Channel / 20MHz+15MHz



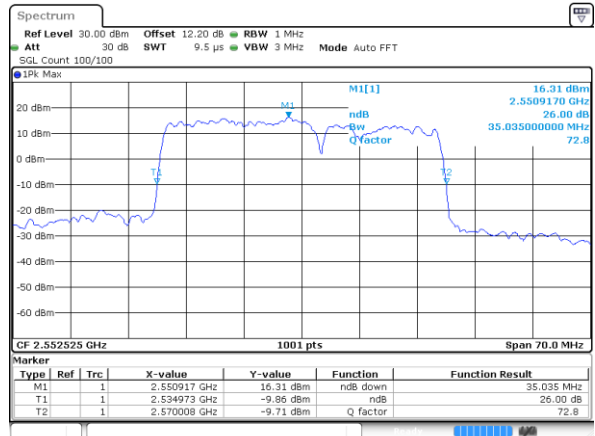
Date: 20 MAY 2020 00:36:30

## Highest Channel / 20MHz+10MHz



Date: 19 MAY 2020 05:34:14

## Highest Channel / 20MHz+15MHz



Date: 20 MAY 2020 00:50:56

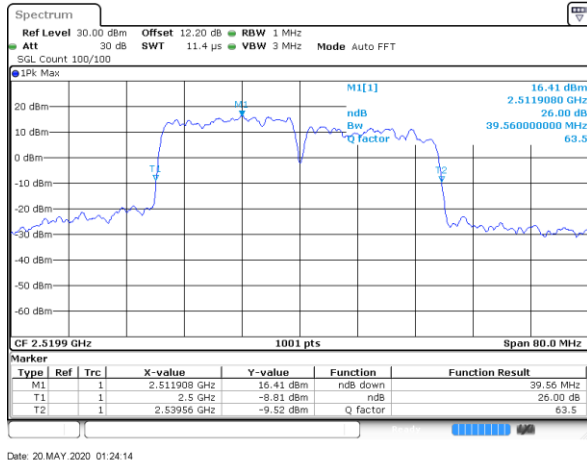


## LTE Band 7C

## 16QAM

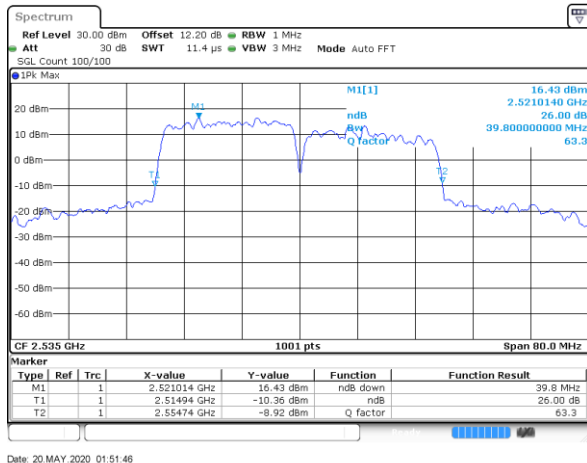
## Lowest Channel / 20MHz+20MHz

N/A



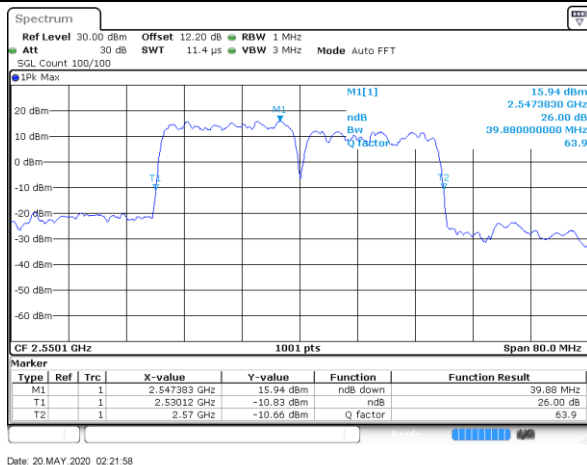
## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A

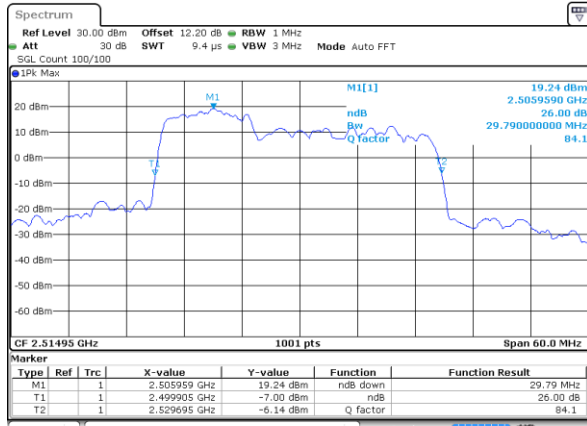




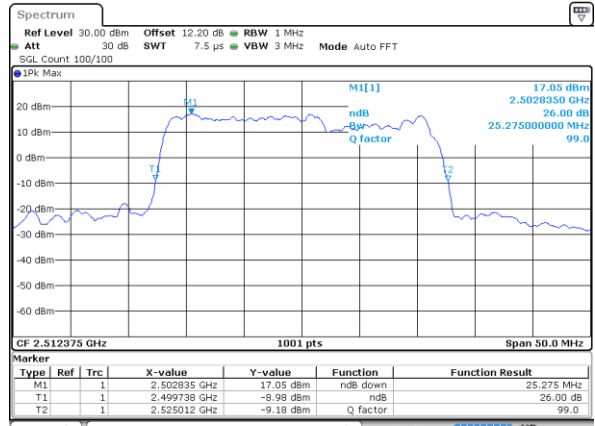
## LTE Band 7C

## 64QAM

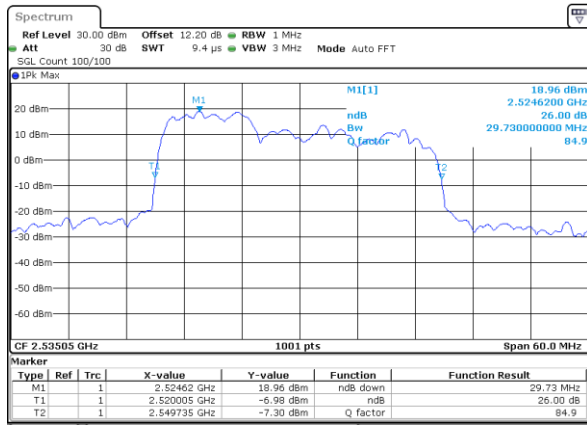
## Lowest Channel / 10MHz+20MHz



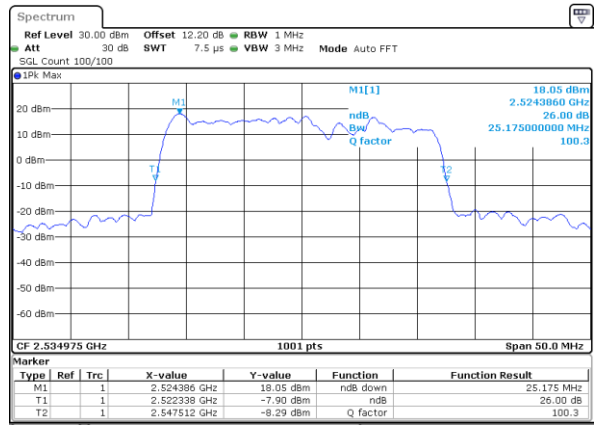
## Lowest Channel / 15MHz+10MHz



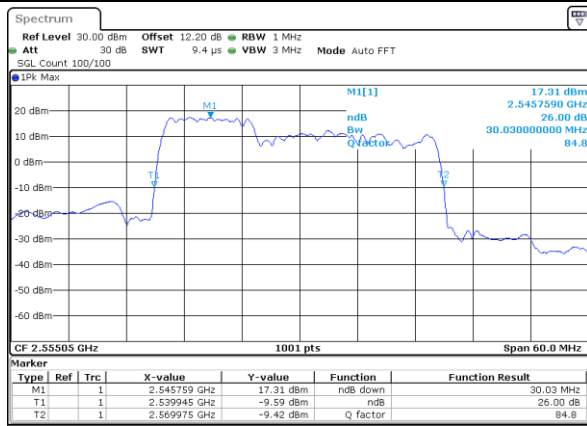
## Middle Channel / 10MHz+20MHz



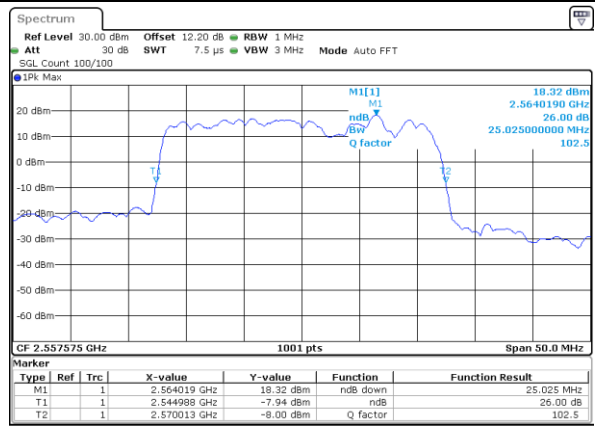
## Middle Channel / 15MHz+10MHz



## Highest Channel / 10MHz+20MHz



## Highest Channel / 15MHz+10MHz

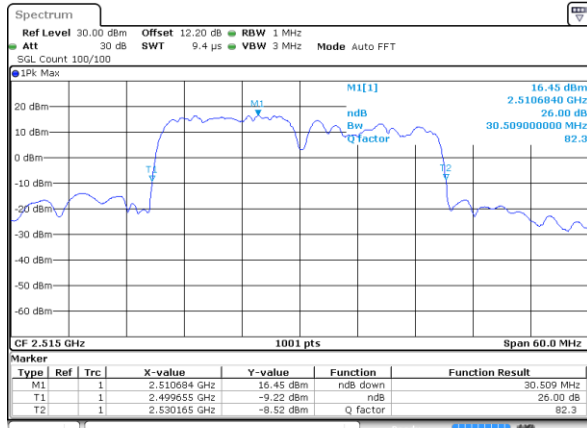




## LTE Band 7C

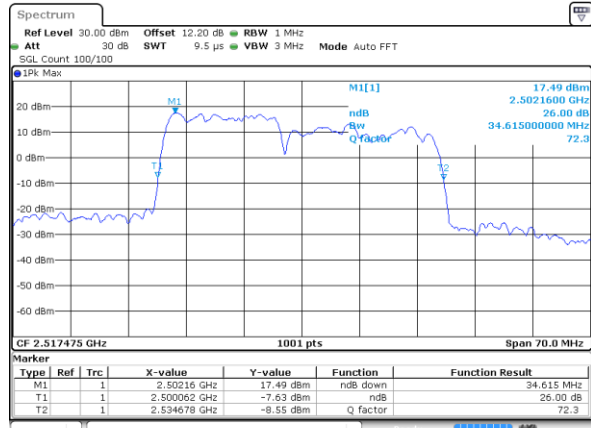
## 64QAM

## Lowest Channel / 15MHz+15MHz



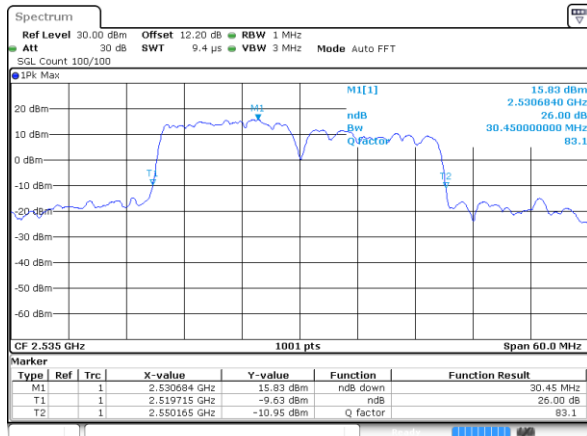
Date: 19 MAY 2020 05:56:08

## Lowest Channel / 15MHz+20MHz



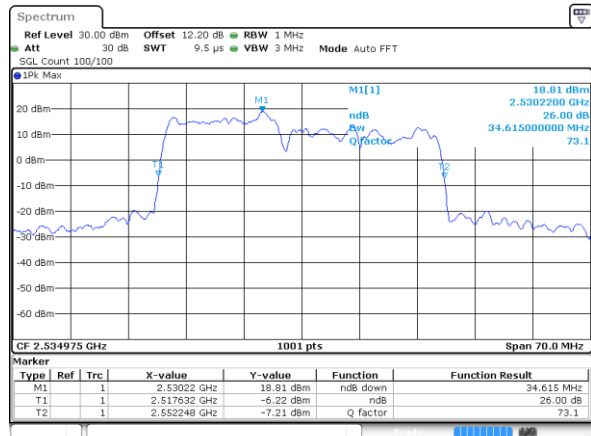
Date: 19 MAY 2020 07:03:16

## Middle Channel / 15MHz+15MHz



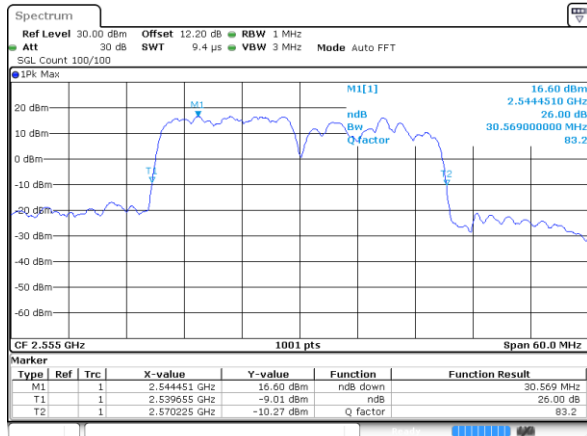
Date: 19 MAY 2020 06:24:33

## Middle Channel / 15MHz+20MHz



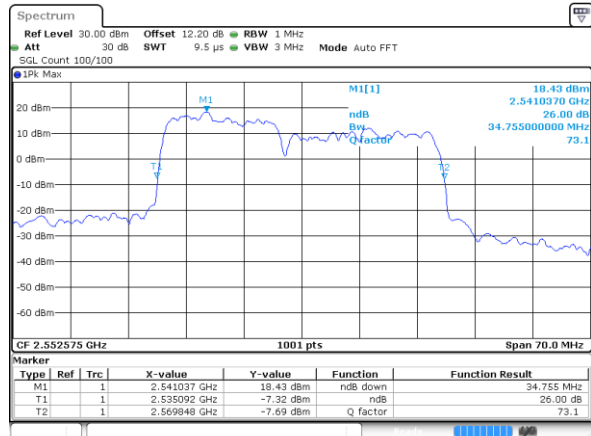
Date: 19 MAY 2020 07:25:28

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:40:00

## Highest Channel / 15MHz+20MHz



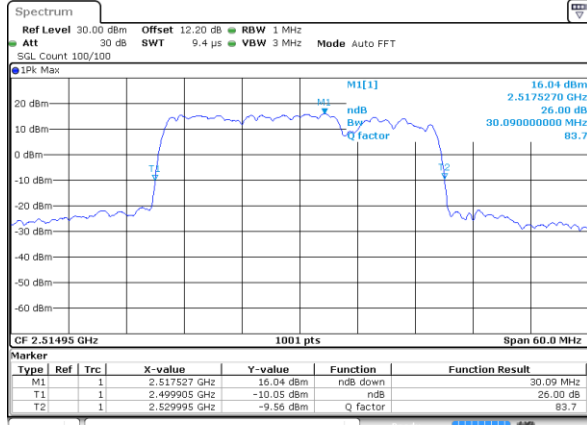
Date: 19 MAY 2020 07:39:05



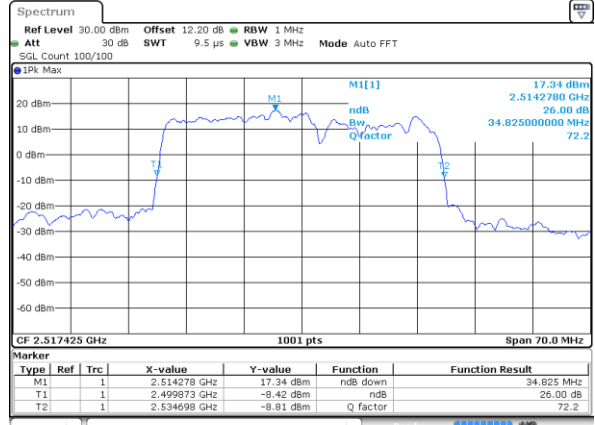
## LTE Band 7C

## 64QAM

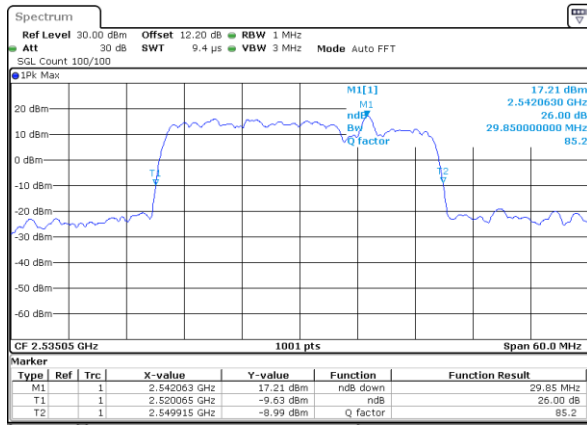
## Lowest Channel / 20MHz+10MHz



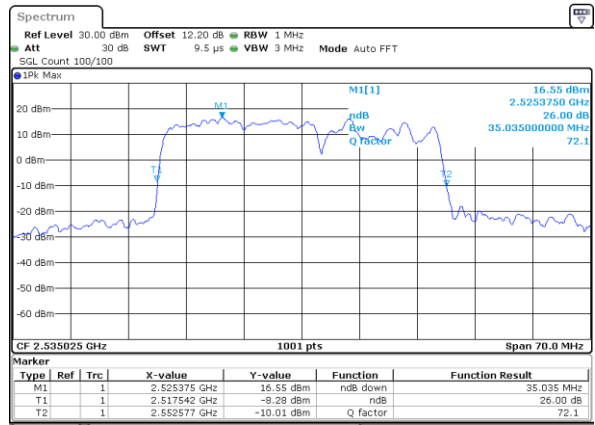
## Lowest Channel / 20MHz+15MHz



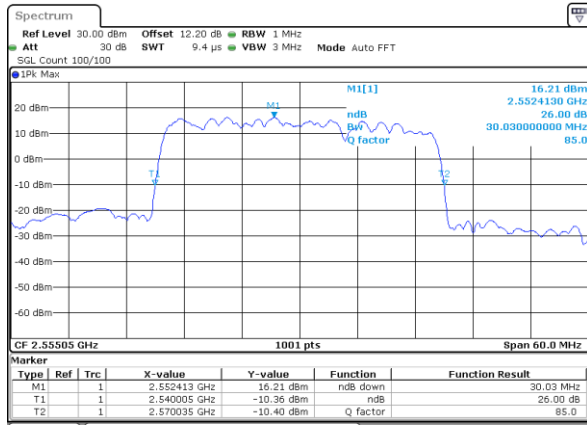
## Middle Channel / 20MHz+10MHz



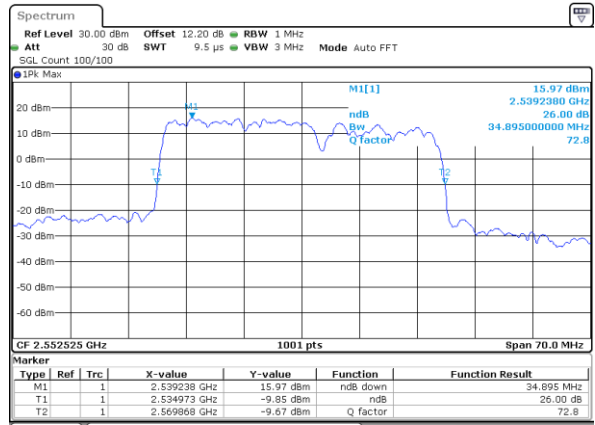
## Middle Channel / 20MHz+15MHz



## Highest Channel / 20MHz+10MHz



## Highest Channel / 20MHz+15MHz



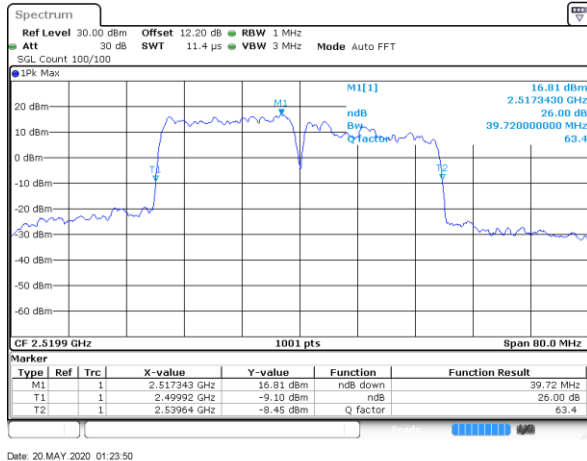


## LTE Band 7C

## 64QAM

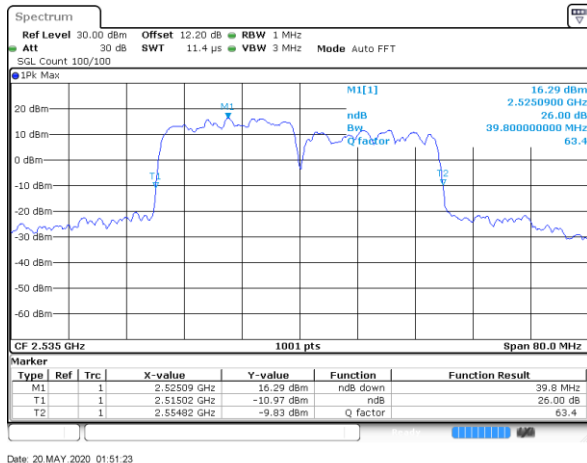
## Lowest Channel / 20MHz+20MHz

N/A



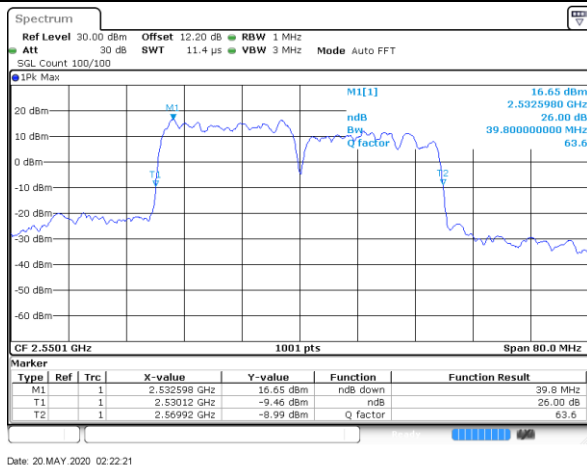
## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A



**Occupied Bandwidth**

| Mode       | LTE Band 7C : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| QPSK       |                           |             |             |             |
| BW         | 10MHz+20MHz               | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 27.87                     | 23.38       | 28.59       | 32.73       |
| Middle CH  | 27.99                     | 23.23       | 28.23       | 32.94       |
| Highest CH | 28.17                     | 23.53       | 28.53       | 32.45       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 27.87                     | 32.52       | 37.64       | -           |
| Middle CH  | 27.93                     | 32.94       | 37.32       | -           |
| Highest CH | 27.99                     | 32.80       | 37.80       | -           |

| Mode       | LTE Band 7C : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| 16QAM      |                           |             |             |             |
| BW         | 10MHz+20MHz               | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 27.99                     | 23.13       | 28.65       | 32.24       |
| Middle CH  | 27.45                     | 23.13       | 28.11       | 32.66       |
| Highest CH | 27.87                     | 23.13       | 28.65       | 32.17       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 27.93                     | 32.59       | 37.72       | -           |
| Middle CH  | 28.17                     | 32.73       | 37.40       | -           |
| Highest CH | 28.05                     | 32.45       | 37.32       | -           |

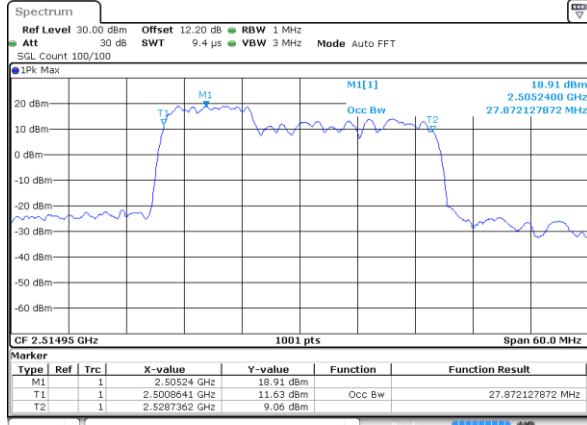
| Mode       | LTE Band 7C : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| 64QAM      |                           |             |             |             |
| BW         | 10MHz+20MHz               | 15MHz+10MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 27.81                     | 23.33       | 28.29       | 32.59       |
| Middle CH  | 27.75                     | 23.08       | 28.47       | 32.66       |
| Highest CH | 27.93                     | 23.23       | 28.41       | 32.66       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz | N/A         |
| Lowest CH  | 27.87                     | 32.73       | 37.32       | -           |
| Middle CH  | 27.99                     | 32.87       | 37.24       | -           |
| Highest CH | 28.17                     | 32.59       | 37.40       | -           |



## LTE Band 7C

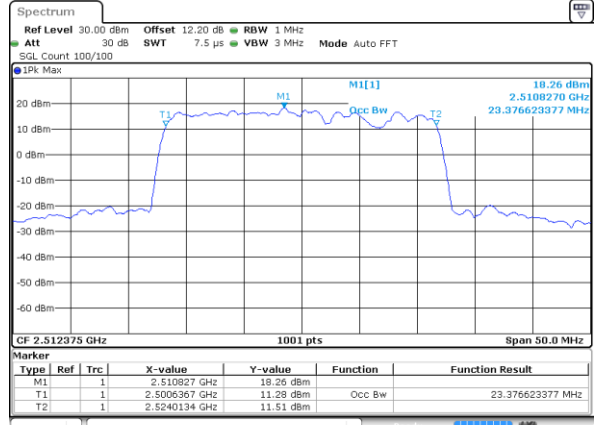
## QPSK

## Lowest Channel / 10MHz+20MHz



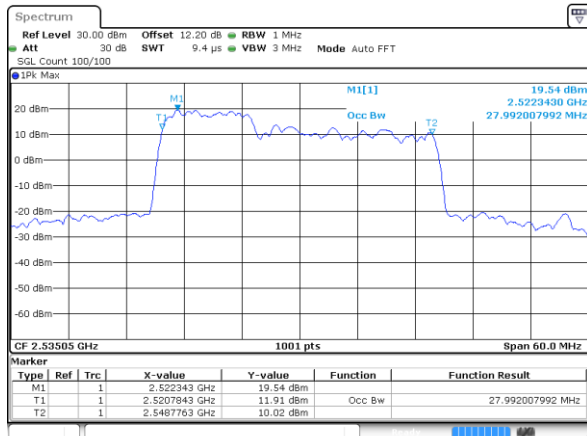
Date: 19 MAY 2020 03:50:36

## Lowest Channel / 15MHz+10MHz



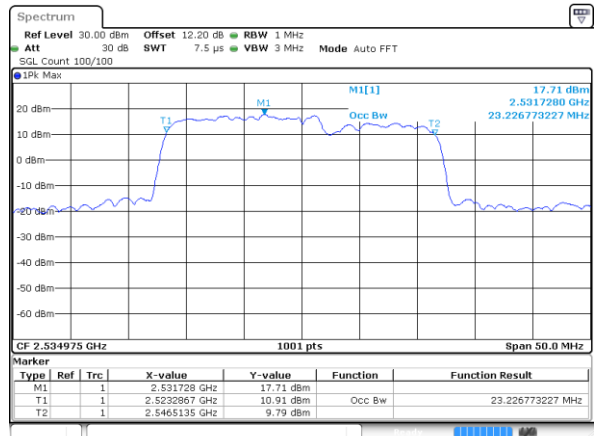
Date: 20 MAY 2020 02:48:50

## Middle Channel / 10MHz+20MHz



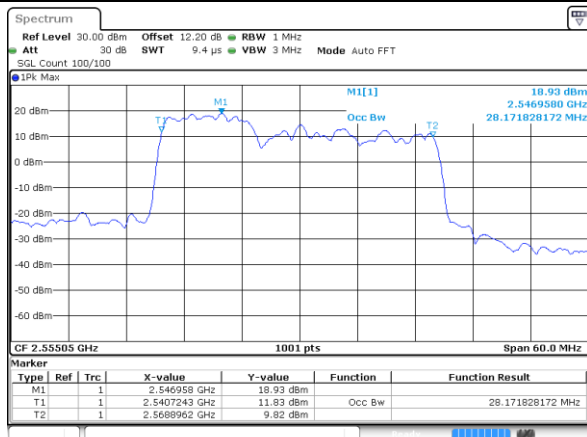
Date: 19 MAY 2020 04:12:00

## Middle Channel / 15MHz+10MHz



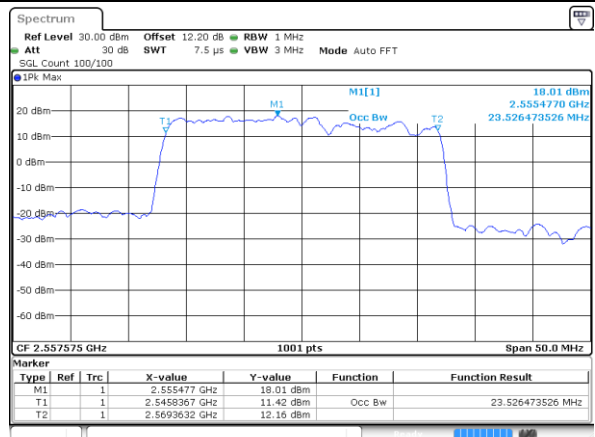
Date: 20 MAY 2020 03:26:43

## Highest Channel / 10MHz+20MHz



Date: 19 MAY 2020 04:27:58

## Highest Channel / 15MHz+10MHz



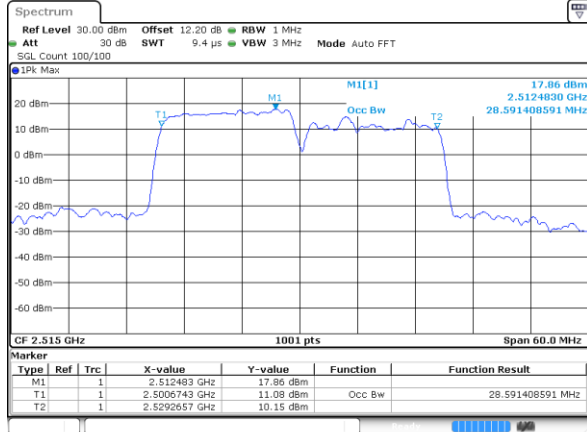
Date: 20 MAY 2020 03:28:56



## LTE Band 7C

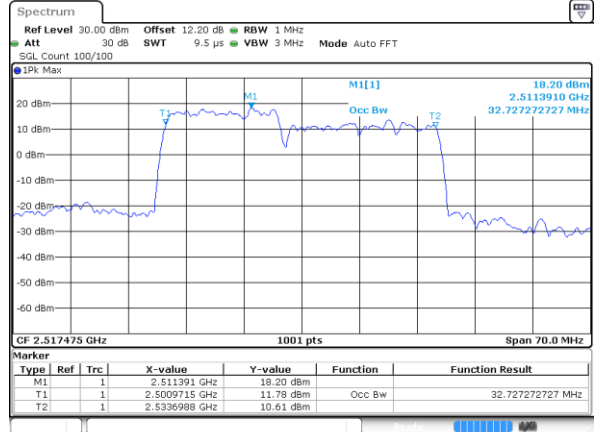
## QPSK

## Lowest Channel / 15MHz+15MHz



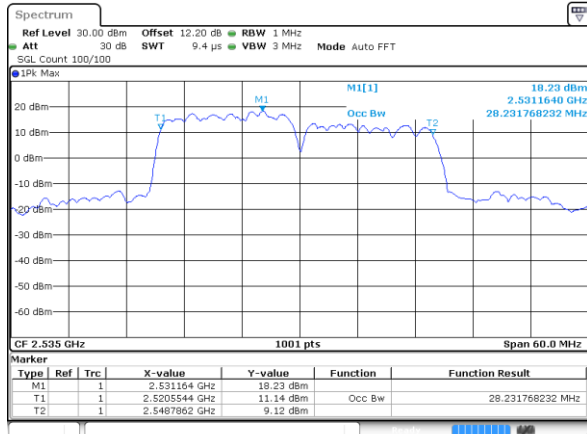
Date: 19 MAY 2020 05:55:01

## Lowest Channel / 15MHz+20MHz



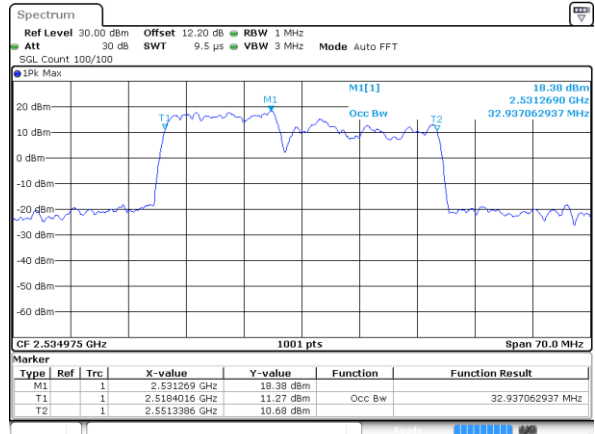
Date: 19 MAY 2020 07:02:09

## Middle Channel / 15MHz+15MHz



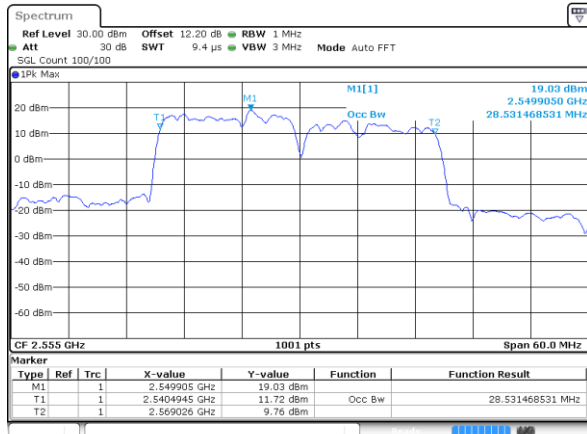
Date: 19 MAY 2020 06:23:26

## Middle Channel / 15MHz+20MHz



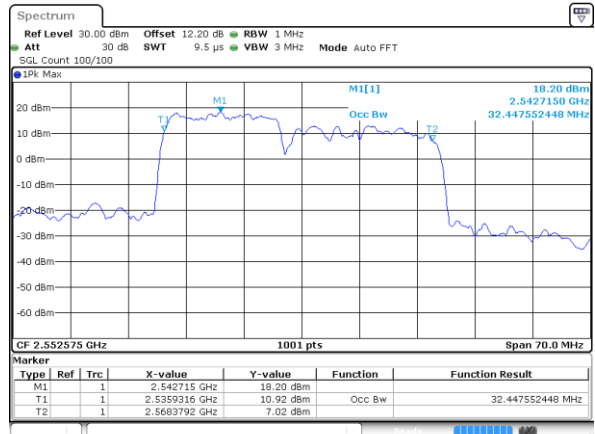
Date: 19 MAY 2020 07:24:21

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:38:53

## Highest Channel / 15MHz+20MHz



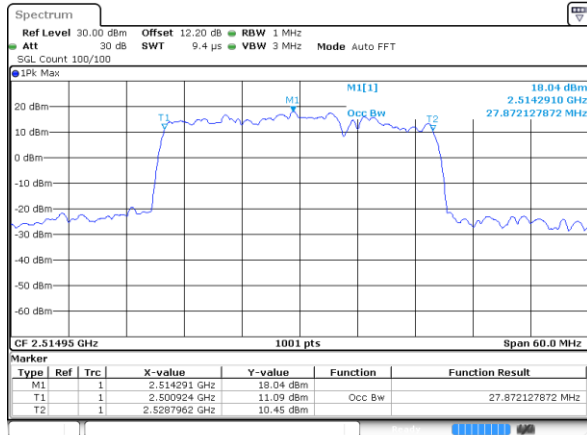
Date: 19 MAY 2020 07:37:58



## LTE Band 7C

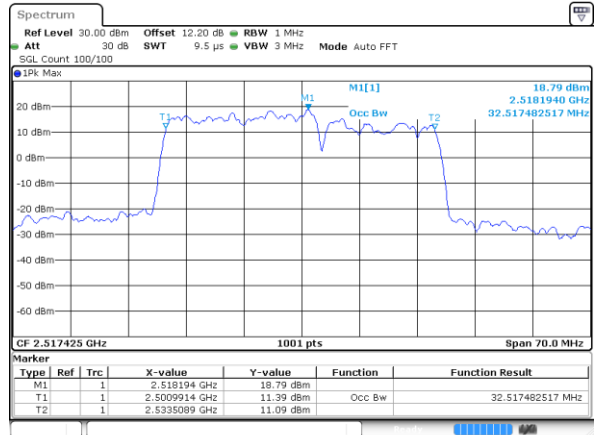
## QPSK

## Lowest Channel / 20MHz+10MHz



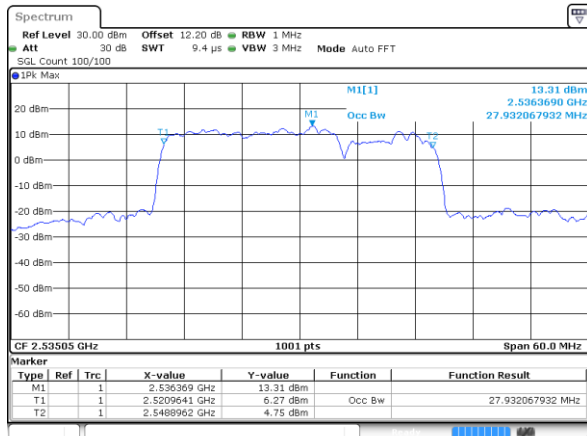
Date: 19 MAY 2020 04:48:59

## Lowest Channel / 20MHz+15MHz



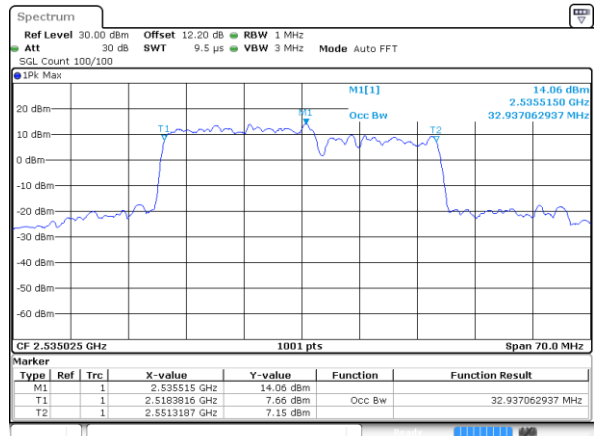
Date: 19 MAY 2020 08:00:43

## Middle Channel / 20MHz+10MHz



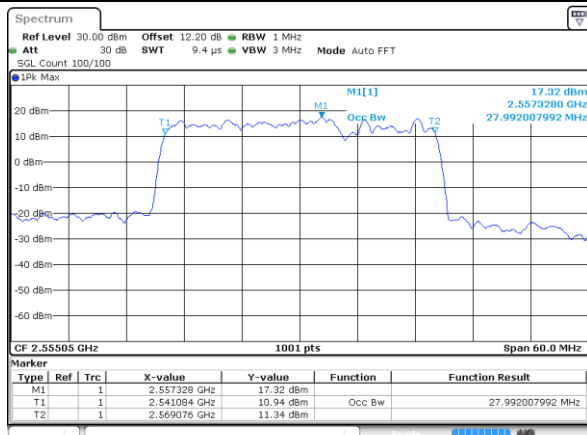
Date: 19 MAY 2020 05:09:59

## Middle Channel / 20MHz+15MHz



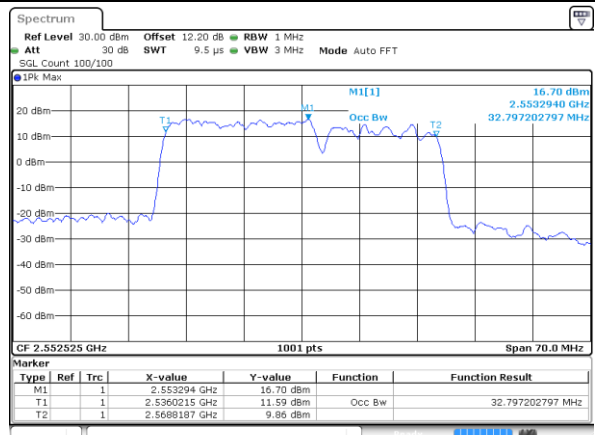
Date: 20 MAY 2020 00:34:58

## Highest Channel / 20MHz+10MHz



Date: 19 MAY 2020 05:33:29

## Highest Channel / 20MHz+15MHz



Date: 20 MAY 2020 00:50:11

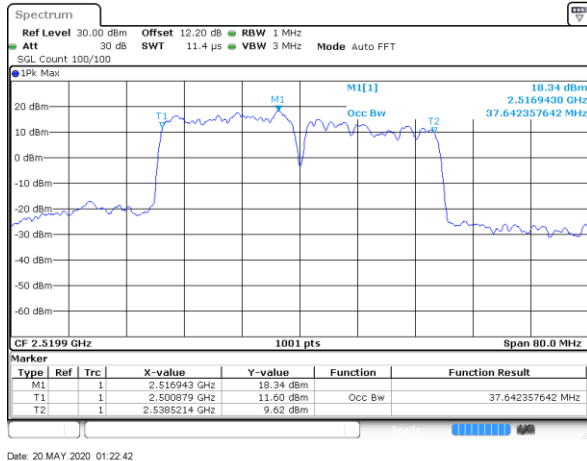


## LTE Band 7C

## QPSK

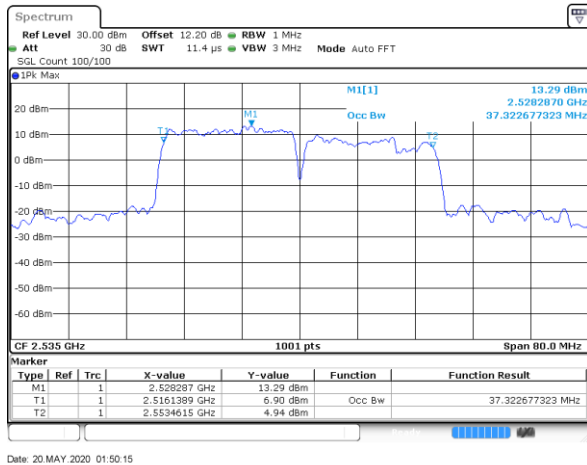
## Lowest Channel / 20MHz+20MHz

N/A



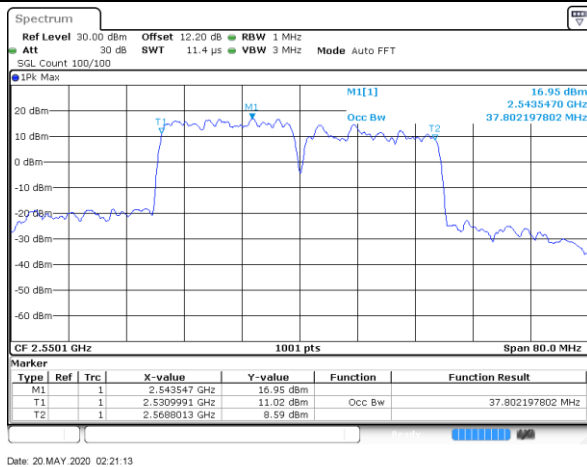
## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A

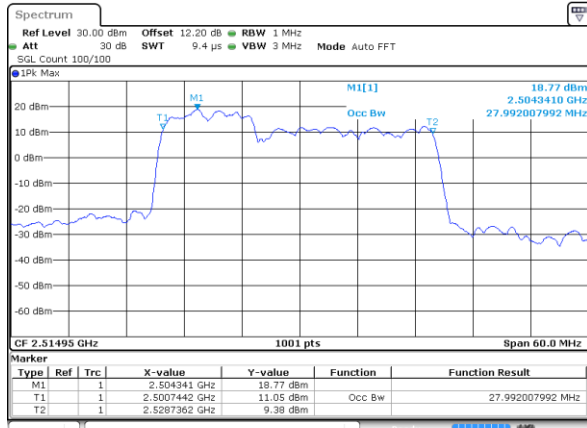




## LTE Band 7C

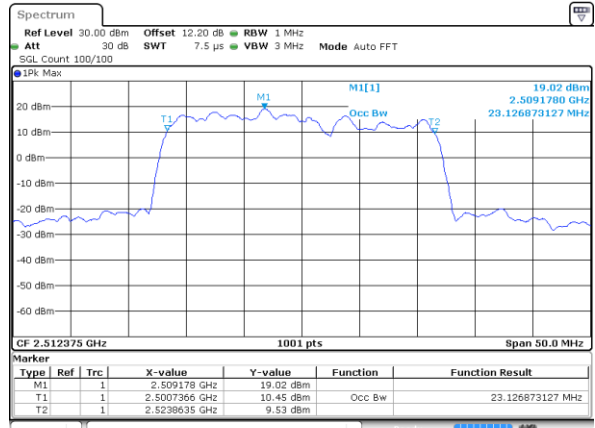
## 16QAM

## Lowest Channel / 10MHz+20MHz



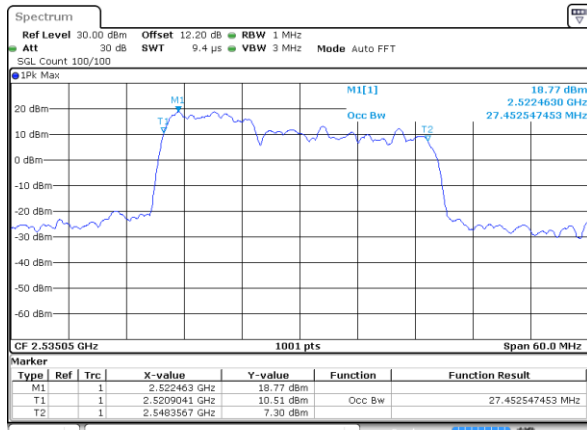
Date: 19 MAY 2020 03:50:59

## Lowest Channel / 15MHz+10MHz



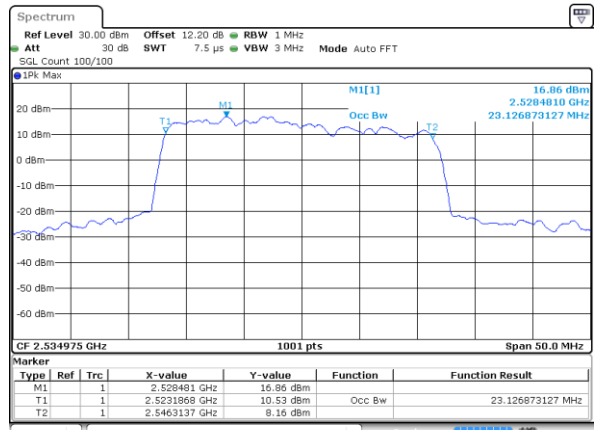
Date: 20 MAY 2020 02:48:13

## Middle Channel / 10MHz+20MHz



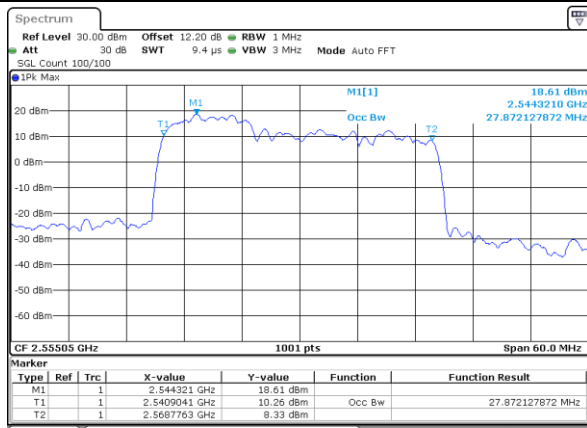
Date: 19 MAY 2020 04:12:23

## Middle Channel / 15MHz+10MHz



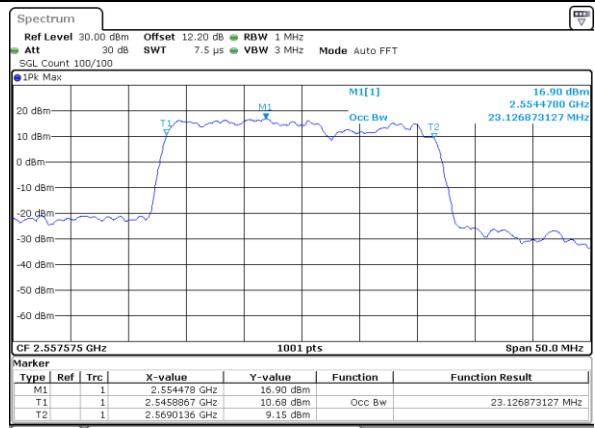
Date: 20 MAY 2020 03:10:59

## Highest Channel / 10MHz+20MHz



Date: 19 MAY 2020 04:27:36

## Highest Channel / 15MHz+10MHz



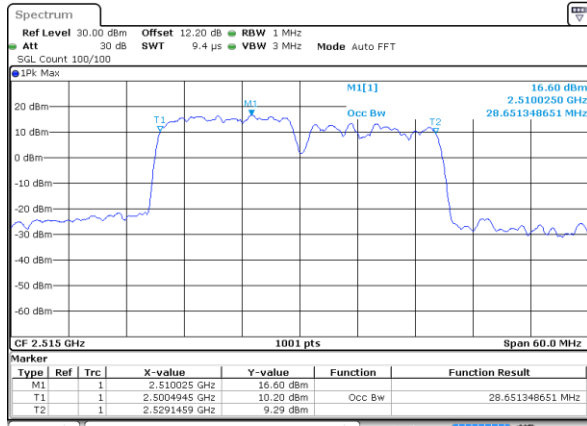
Date: 20 MAY 2020 03:28:33



## LTE Band 7C

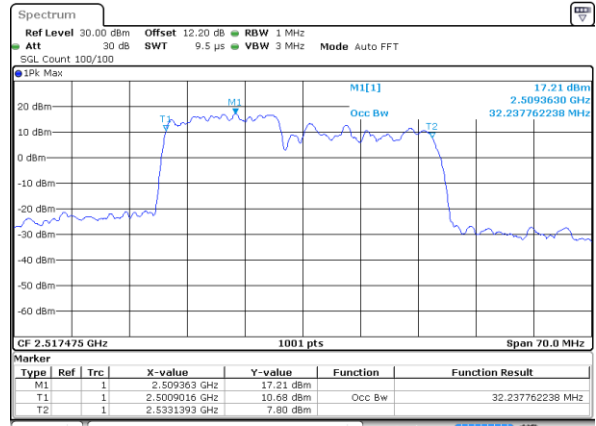
## 16QAM

## Lowest Channel / 15MHz+15MHz



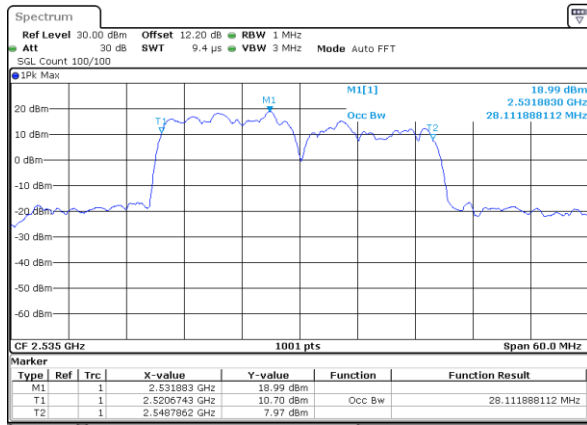
Date: 19 MAY 2020 05:55:24

## Lowest Channel / 15MHz+20MHz



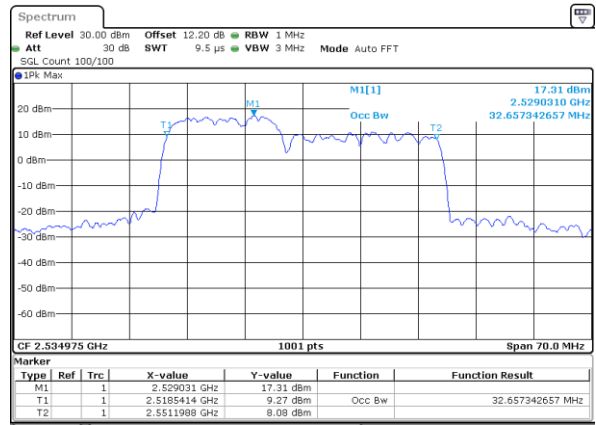
Date: 19 MAY 2020 07:02:31

## Middle Channel / 15MHz+15MHz



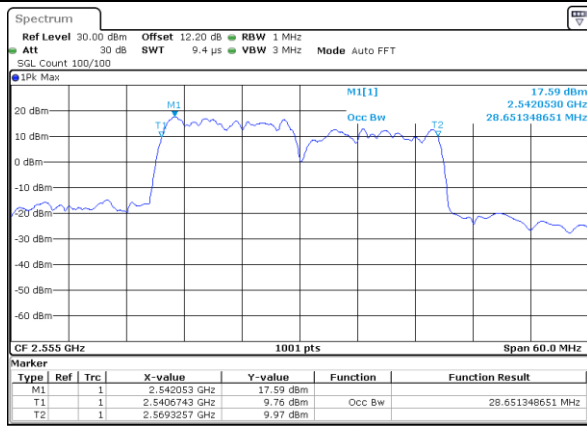
Date: 19 MAY 2020 06:23:48

## Middle Channel / 15MHz+20MHz



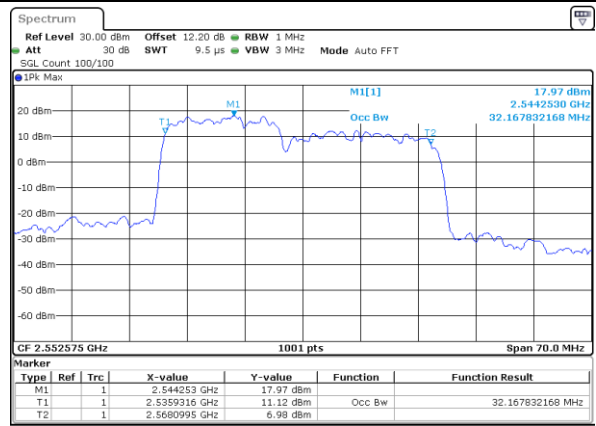
Date: 19 MAY 2020 07:24:44

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:38:30

## Highest Channel / 15MHz+20MHz



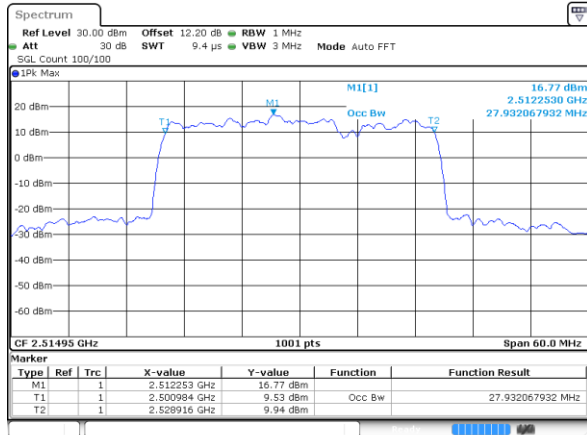
Date: 19 MAY 2020 07:37:35



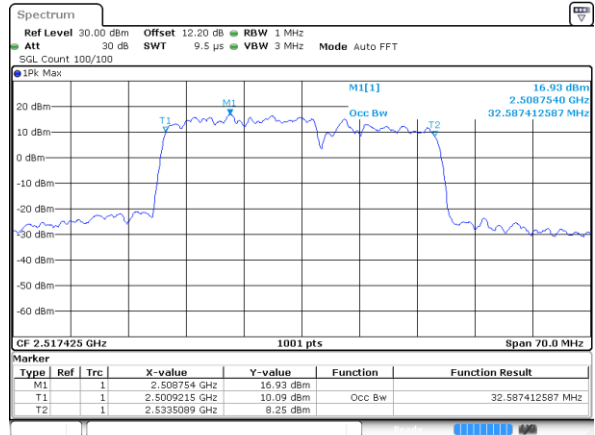
## LTE Band 7C

## 16QAM

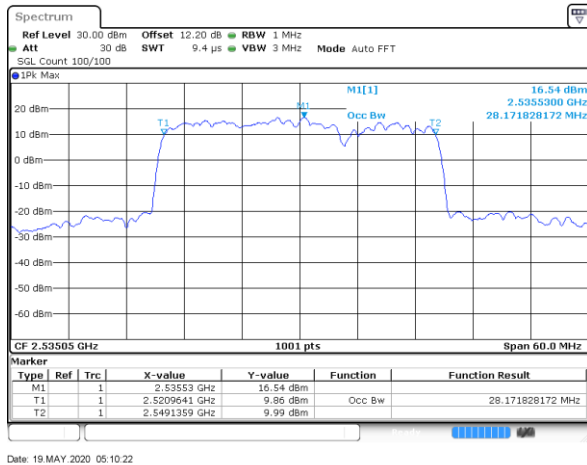
## Lowest Channel / 20MHz+10MHz



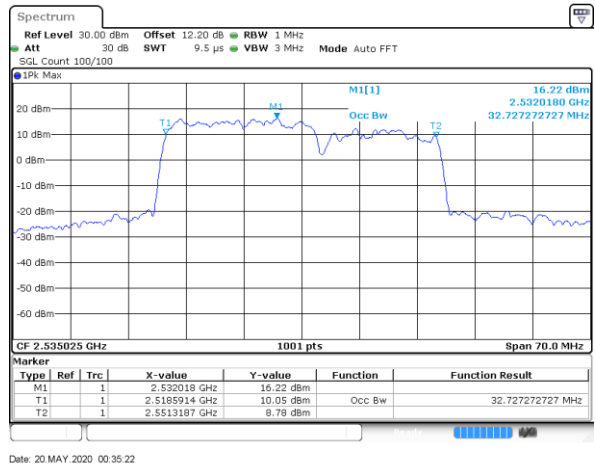
## Lowest Channel / 20MHz+15MHz



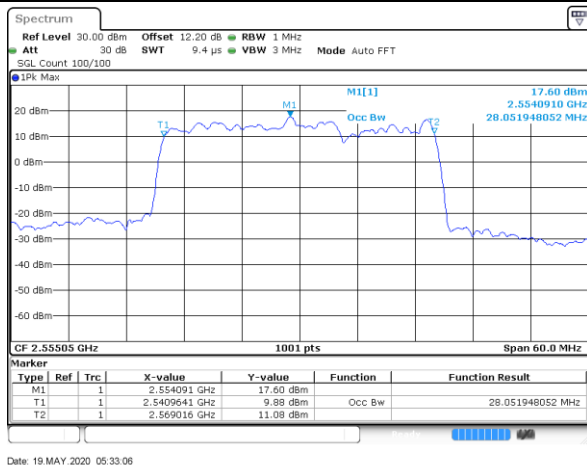
## Middle Channel / 20MHz+10MHz



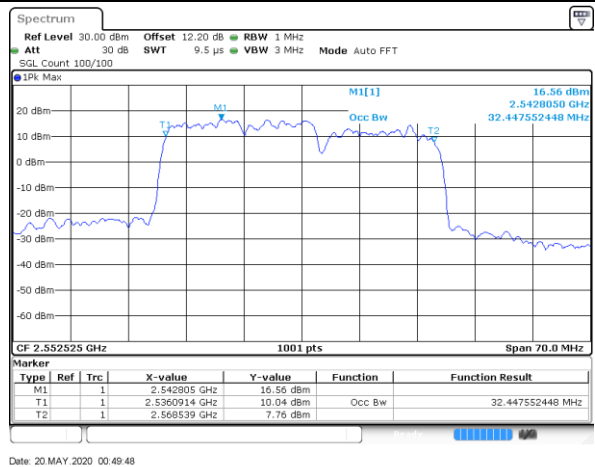
## Middle Channel / 20MHz+15MHz



## Highest Channel / 20MHz+10MHz



## Highest Channel / 20MHz+15MHz



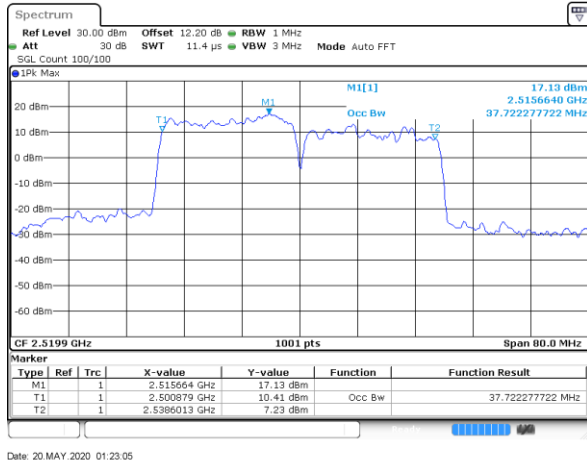


## LTE Band 7C

## 16QAM

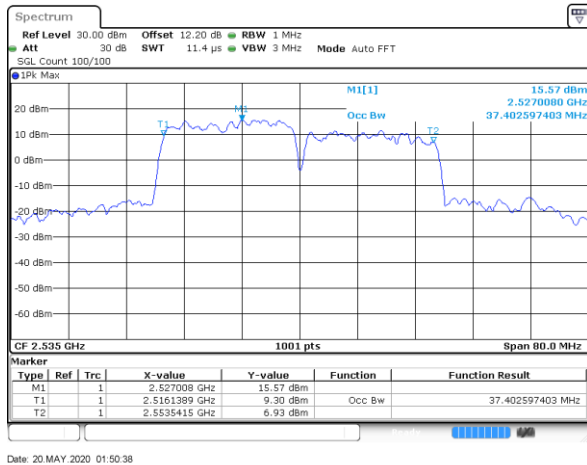
## Lowest Channel / 20MHz+20MHz

N/A



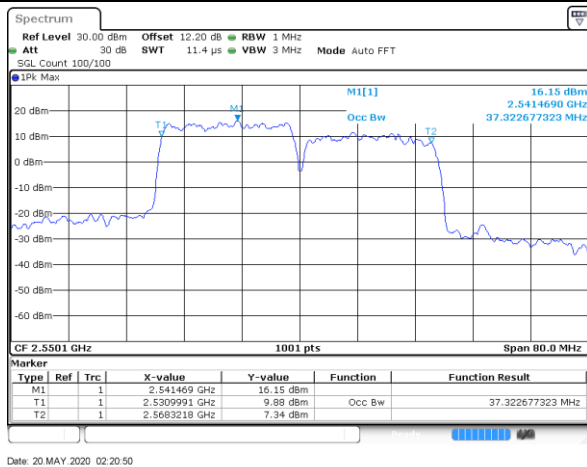
## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A

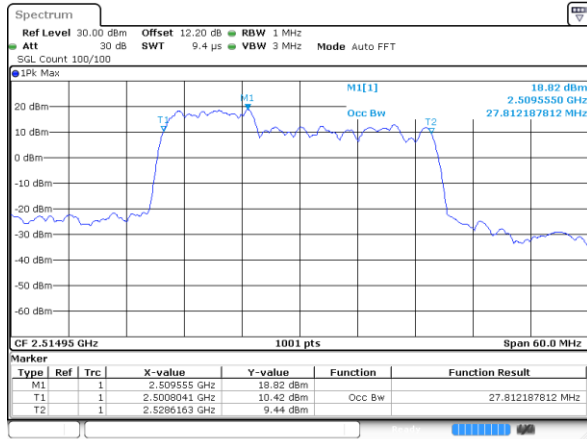




## LTE Band 7C

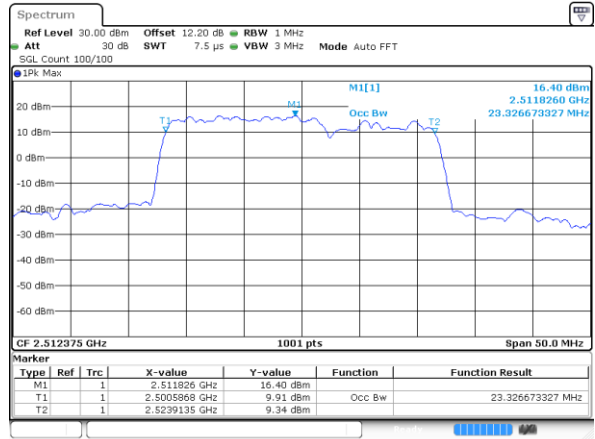
## 64QAM

## Lowest Channel / 10MHz+20MHz



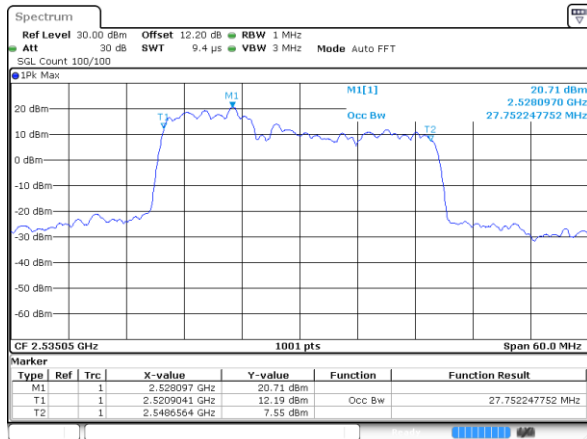
Date: 19 MAY 2020 03:51:22

## Lowest Channel / 15MHz+10MHz



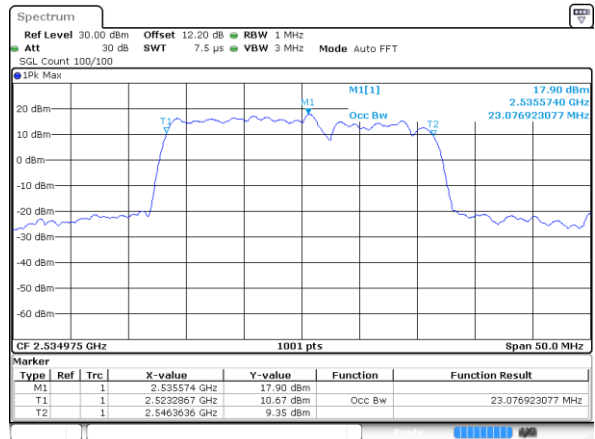
Date: 20 MAY 2020 02:48:36

## Middle Channel / 10MHz+20MHz



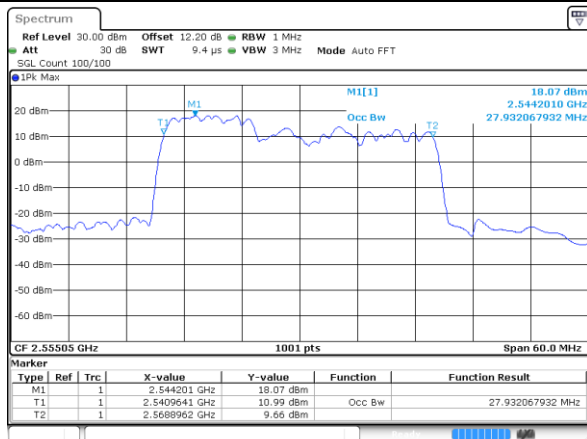
Date: 19 MAY 2020 04:12:46

## Middle Channel / 15MHz+10MHz



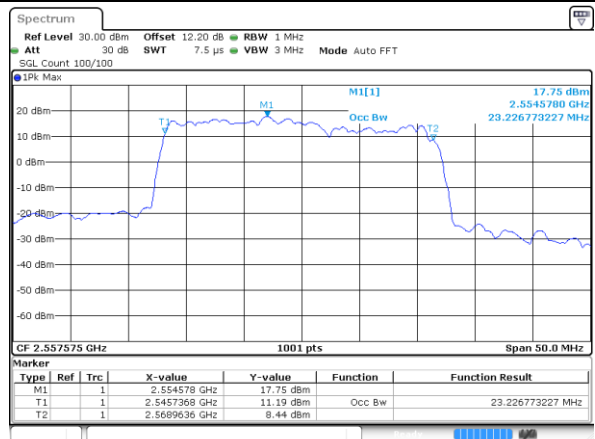
Date: 20 MAY 2020 03:11:22

## Highest Channel / 10MHz+20MHz



Date: 19 MAY 2020 04:27:13

## Highest Channel / 15MHz+10MHz



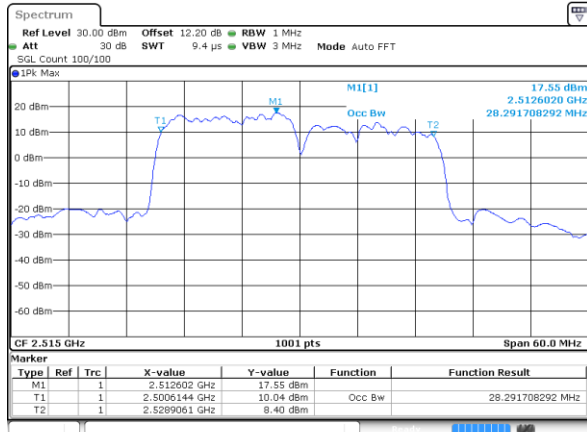
Date: 20 MAY 2020 03:28:10



## LTE Band 7C

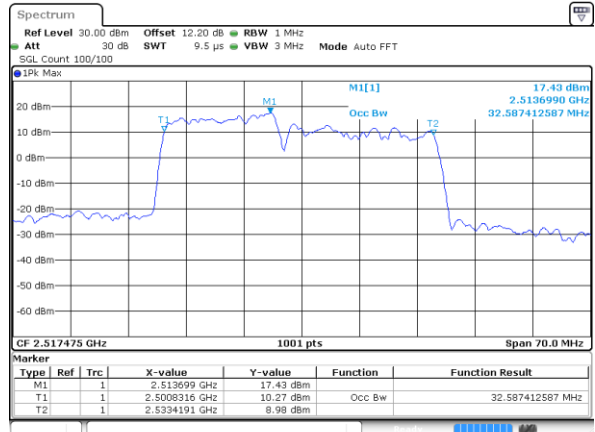
## 64QAM

## Lowest Channel / 15MHz+15MHz



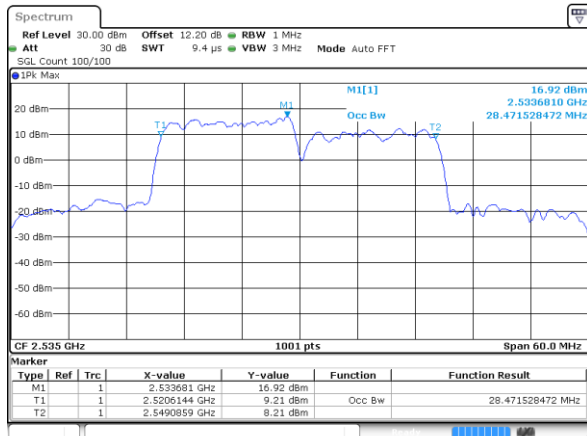
Date: 19 MAY 2020 05:55:46

## Lowest Channel / 15MHz+20MHz



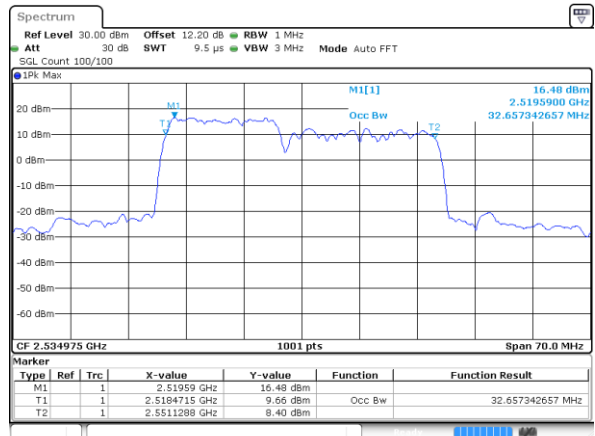
Date: 19 MAY 2020 07:02:54

## Middle Channel / 15MHz+15MHz



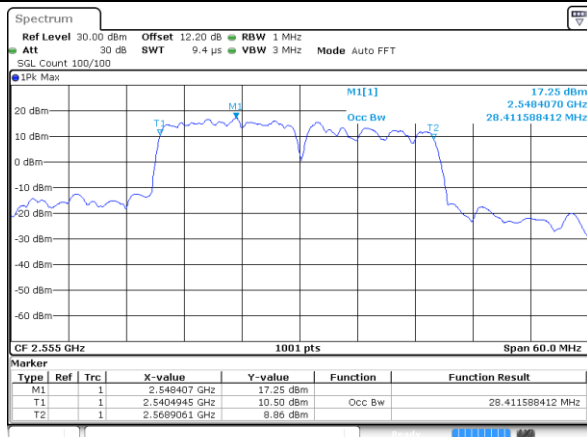
Date: 19 MAY 2020 06:24:11

## Middle Channel / 15MHz+20MHz



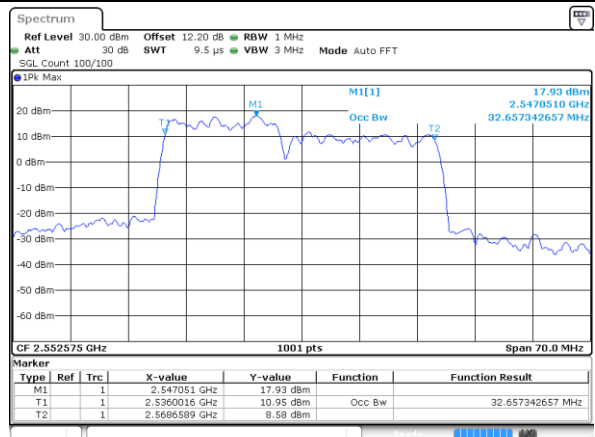
Date: 19 MAY 2020 07:25:06

## Highest Channel / 15MHz+15MHz



Date: 19 MAY 2020 06:38:08

## Highest Channel / 15MHz+20MHz



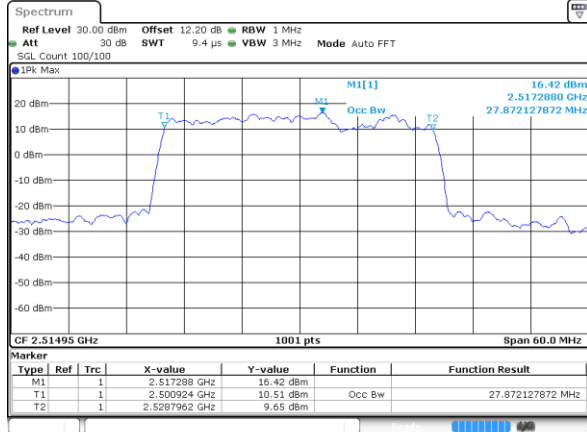
Date: 19 MAY 2020 07:37:12



## LTE Band 7C

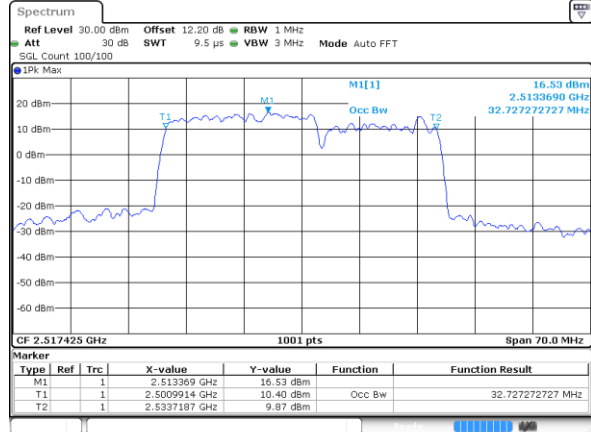
## 64QAM

## Lowest Channel / 20MHz+10MHz



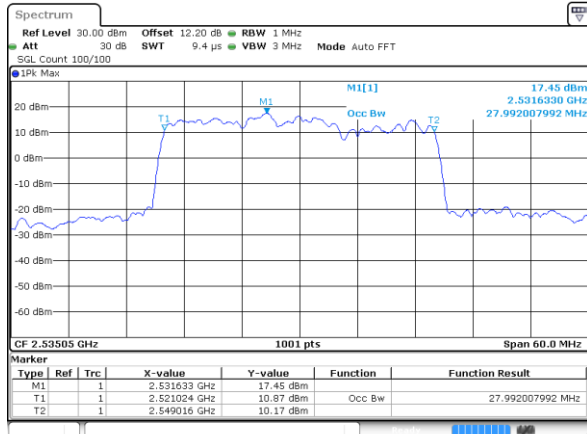
Date: 19 MAY 2020 04:49:44

## Lowest Channel / 20MHz+15MHz



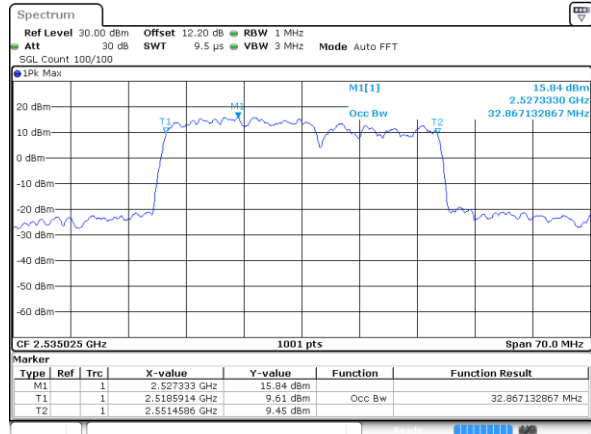
Date: 19 MAY 2020 08:01:29

## Middle Channel / 20MHz+10MHz



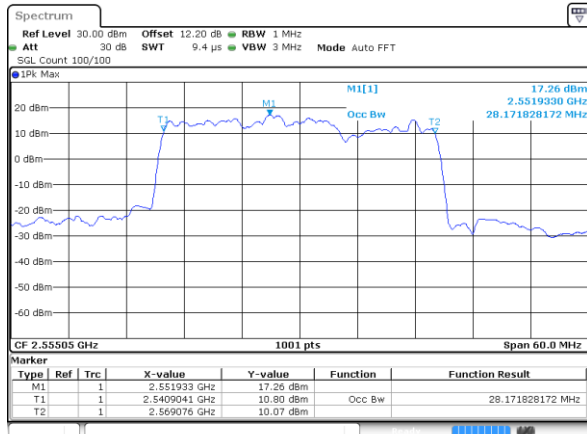
Date: 19 MAY 2020 05:10:44

## Middle Channel / 20MHz+15MHz



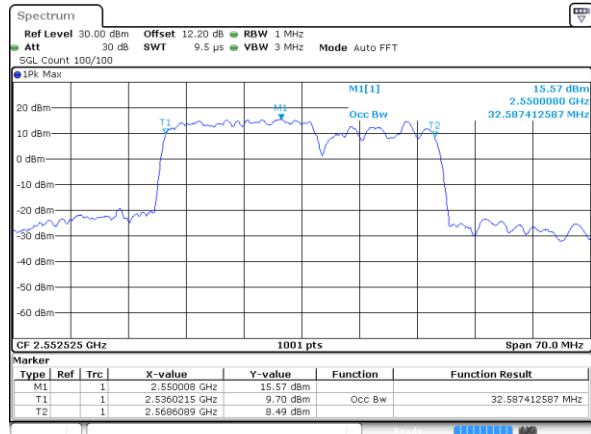
Date: 20 MAY 2020 01:17:55

## Highest Channel / 20MHz+10MHz



Date: 19 MAY 2020 05:32:44

## Highest Channel / 20MHz+15MHz



Date: 20 MAY 2020 00:49:25

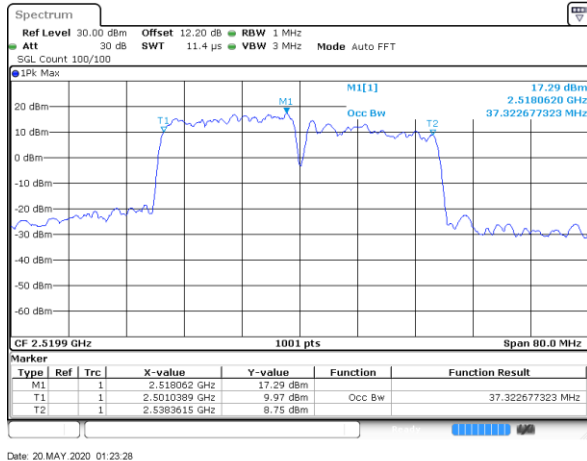


## LTE Band 7C

## 64QAM

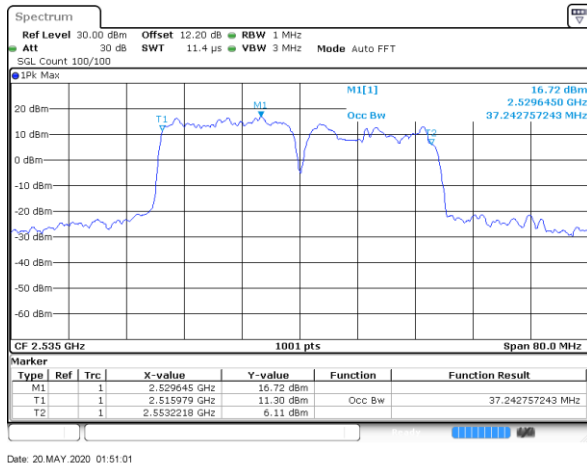
## Lowest Channel / 20MHz+20MHz

N/A



## Middle Channel / 20MHz+20MHz

N/A



## Highest Channel / 20MHz+20MHz

N/A

