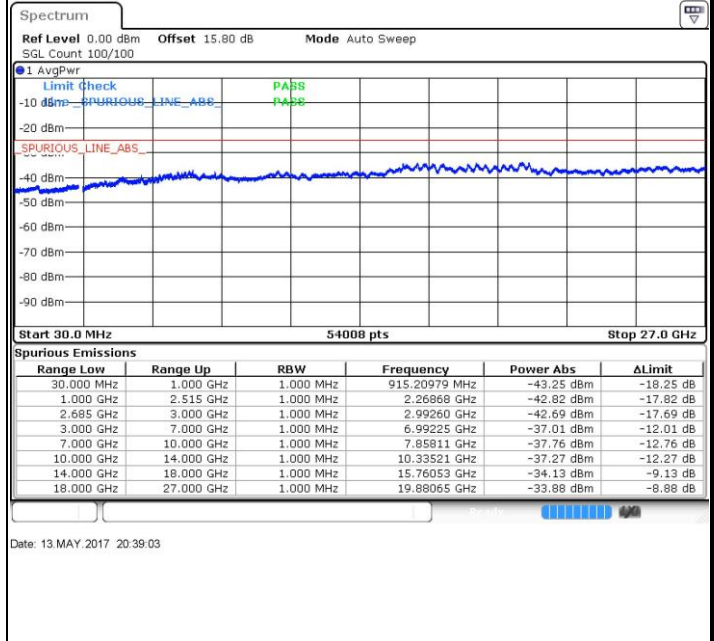




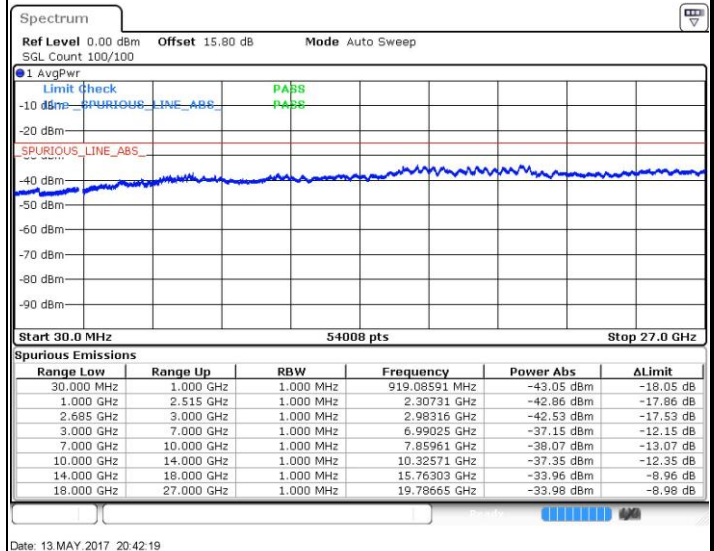
LTE Band 41 / 15MHz

Highest Channel / 64QAM



LTE Band 41 / 20MHz

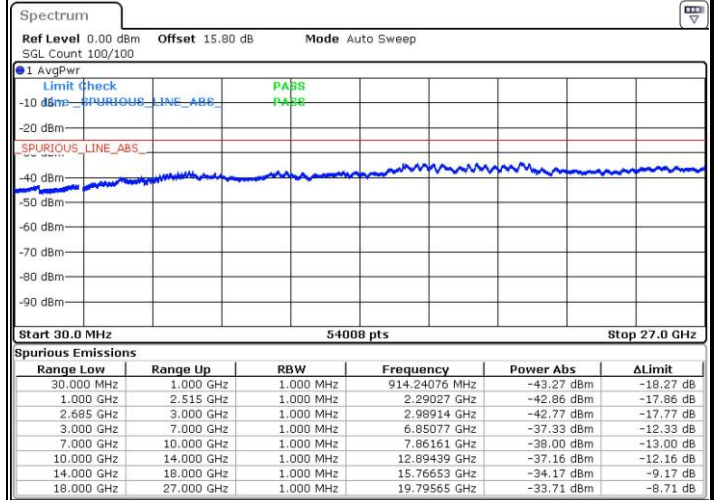
Lowest Channel / 64QAM





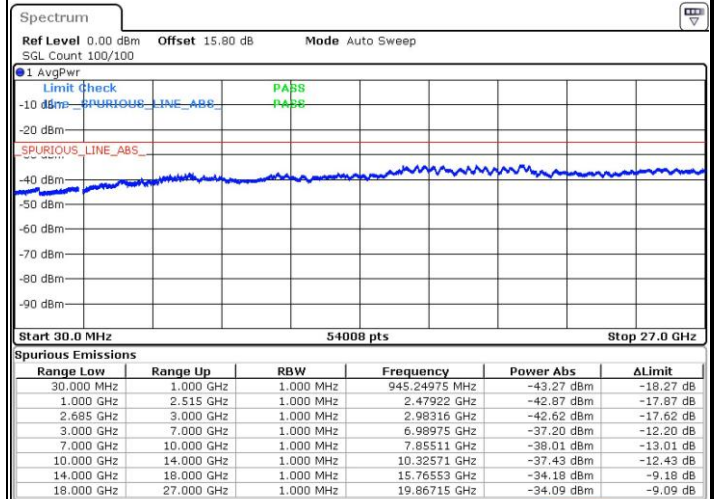
LTE Band 41 / 20MHz

Middle Channel / 64QAM



Date: 13.MAY.2017 20:43:14

Highest Channel / 64QAM



Date: 13.MAY.2017 20:46:28



**Frequency Stability**

| Test Conditions  |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0004                              | PASS    |
| 40               | Normal Voltage    | 0.0094                              |         |
| 30               | Normal Voltage    | 0.0008                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0094                              |         |
| 0                | Normal Voltage    | 0.0007                              |         |
| -10              | Normal Voltage    | 0.0001                              |         |
| -20              | Normal Voltage    | 0.0006                              |         |
| -30              | Normal Voltage    | 0.0001                              |         |
| 20               | Maximum Voltage   | 0.0005                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0095                              |         |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41\_CA

## 26dB Bandwidth

| Mode       | LTE Band 41 : 26dB BW(MHz) |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|
| QPSK       |                            |             |             |             |
| BW         | 5MHz+20MHz                 | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 24.93                      | 29.79       | 30.51       | 34.83       |
| Middle CH  | 25.03                      | 29.91       | 30.57       | 34.83       |
| Highest CH | 24.93                      | 29.85       | 30.51       | 34.76       |
| BW         | 20MHz+5MHz                 | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 25.23                      | 29.91       | 35.04       | 39.72       |
| Middle CH  | 25.23                      | 30.03       | 34.97       | 39.72       |
| Highest CH | 25.18                      | 30.21       | 35.11       | 39.72       |

| Mode       | LTE Band 41 : 26dB BW (MHz) |             |             |             |
|------------|-----------------------------|-------------|-------------|-------------|
| 16QAM      |                             |             |             |             |
| BW         | 5MHz+20MHz                  | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 24.78                       | 29.79       | 30.63       | 34.83       |
| Middle CH  | 25.03                       | 29.85       | 30.45       | 34.83       |
| Highest CH | 24.73                       | 29.97       | 30.69       | 34.69       |
| BW         | 20MHz+5MHz                  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 25.13                       | 30.15       | 34.83       | 39.72       |
| Middle CH  | 25.03                       | 29.91       | 34.83       | 40.04       |
| Highest CH | 25.18                       | 29.85       | 34.97       | 39.96       |

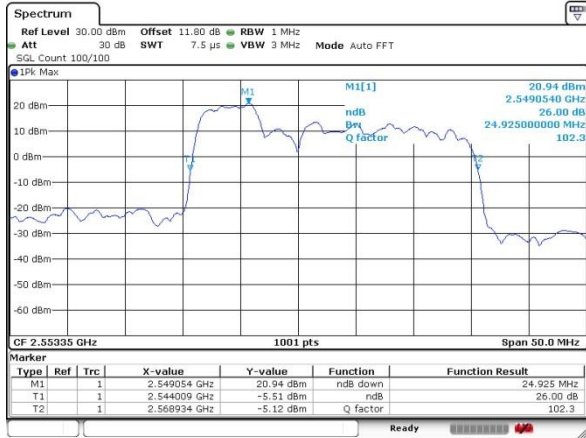
| Mode       | LTE Band 41 : 26dB BW (MHz) |             |             |             |
|------------|-----------------------------|-------------|-------------|-------------|
| 64QAM      |                             |             |             |             |
| BW         | 5MHz+20MHz                  | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 24.88                       | 29.79       | 30.51       | 34.83       |
| Middle CH  | 24.83                       | 29.85       | 30.51       | 34.83       |
| Highest CH | 24.88                       | 29.79       | 30.51       | 34.83       |
| BW         | 20MHz+5MHz                  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 25.08                       | 30.15       | 35.04       | 39.72       |
| Middle CH  | 24.98                       | 29.85       | 34.76       | 39.8        |
| Highest CH | 25.23                       | 30.09       | 34.90       | 39.8        |



LTE Band 41

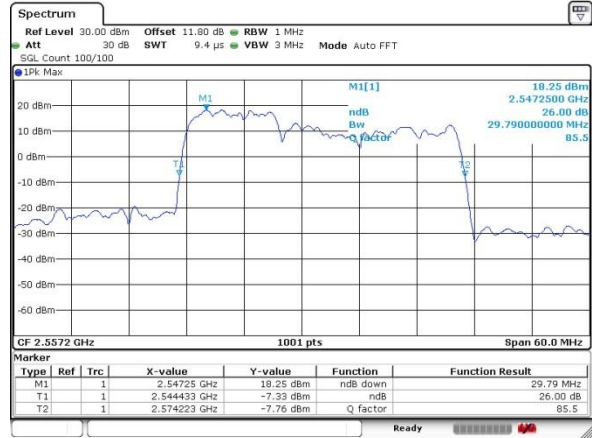
QPSK

Lowest Channel / 5MHz+20MHz



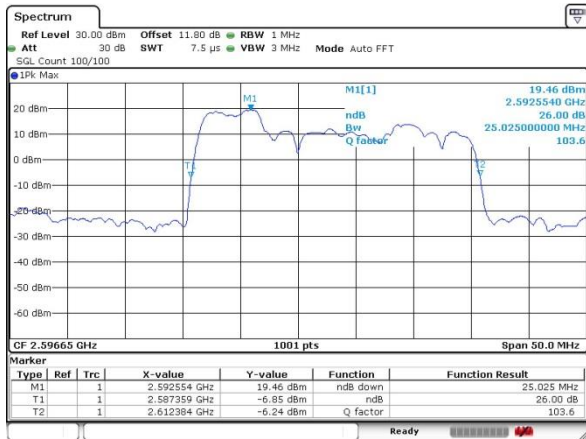
Date: 19 MAY 2017 11:53:39

Lowest Channel / 10MHz+20MHz



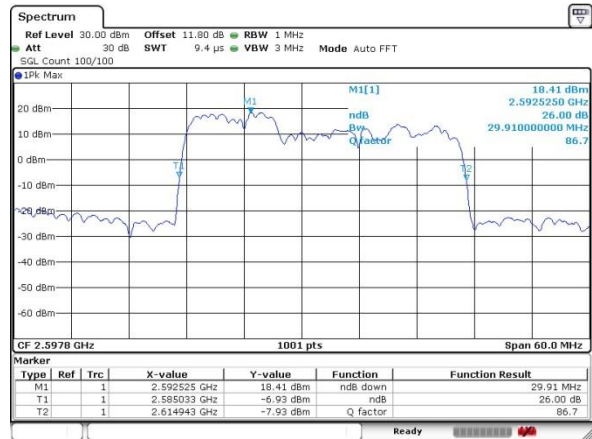
Date: 19 MAY 2017 16:32:02

Middle Channel / 5MHz+20MHz



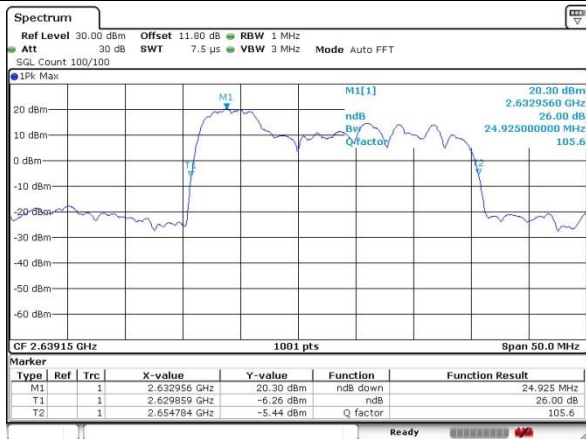
Date: 19 MAY 2017 11:56:41

Middle Channel / 10MHz+20MHz



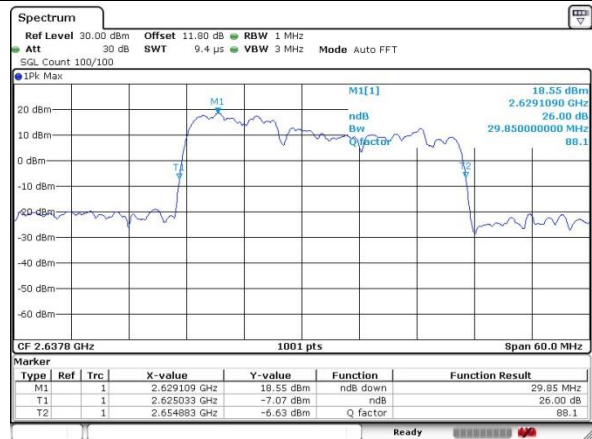
Date: 19 MAY 2017 16:48:54

Highest Channel / 5MHz+20MHz



Date: 19 MAY 2017 11:39:14

Highest Channel / 10MHz+20MHz



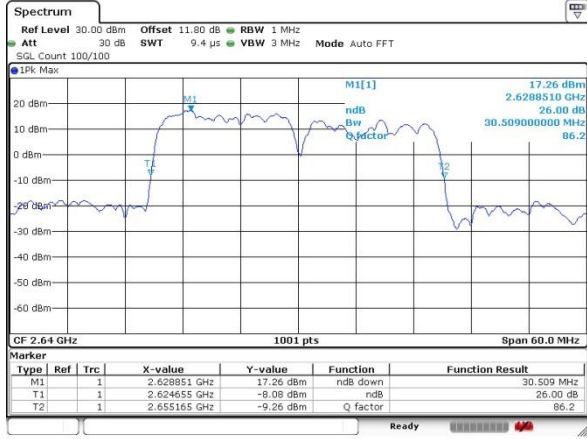
Date: 19 MAY 2017 16:49:30



LTE Band 41

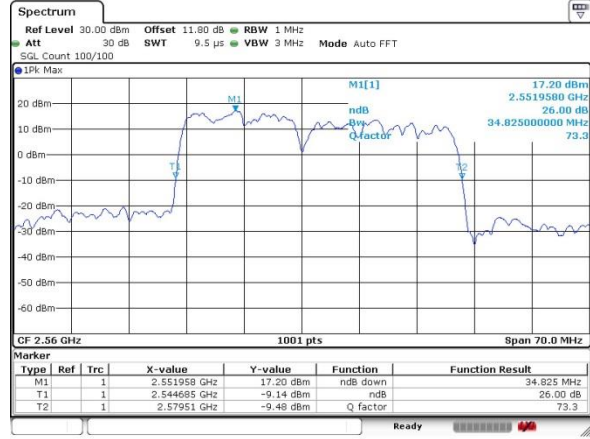
QPSK

Lowest Channel / 15MHz+15MHz



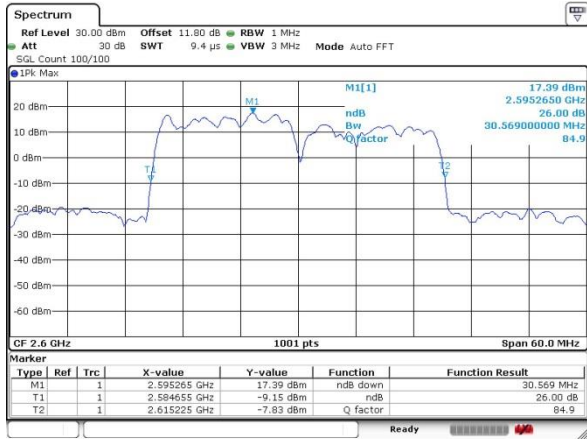
Date: 19 MAY 2017 19:13:13

Lowest Channel / 15MHz+20MHz



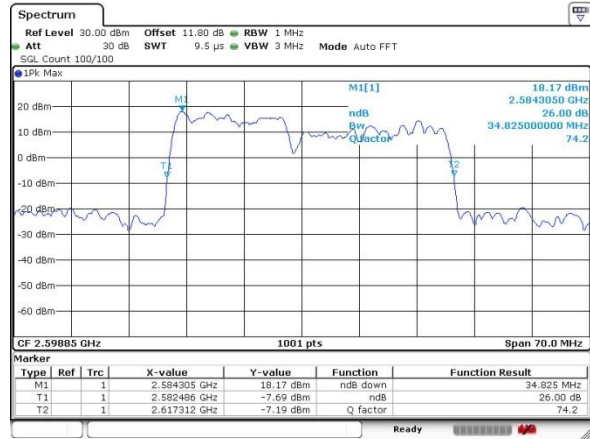
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Middle Channel / 15MHz+15MHz



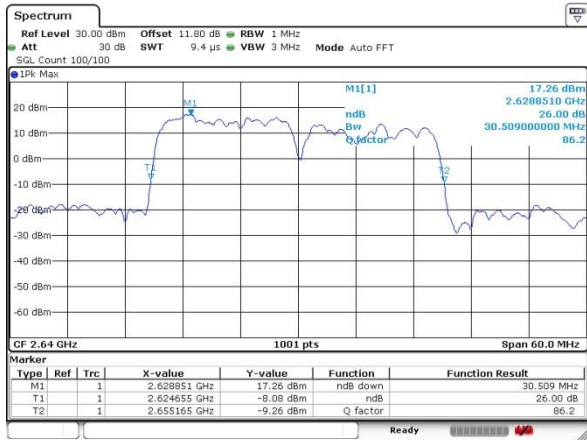
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Middle Channel / 15MHz+20MHz



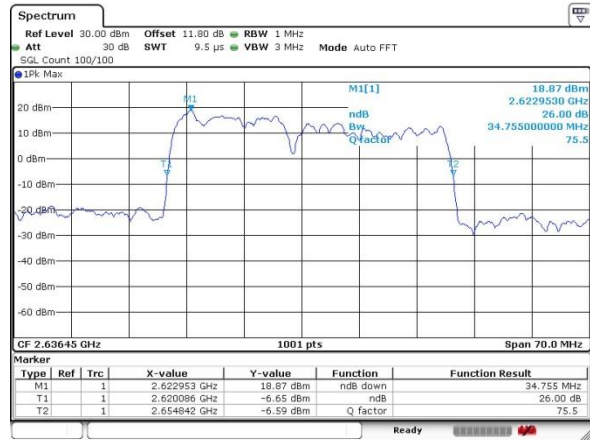
Date: 20 MAY 2017 01:54:02

Highest Channel / 15MHz+15MHz



Date: 19 MAY 2017 19:13:13

Highest Channel / 15MHz+20MHz



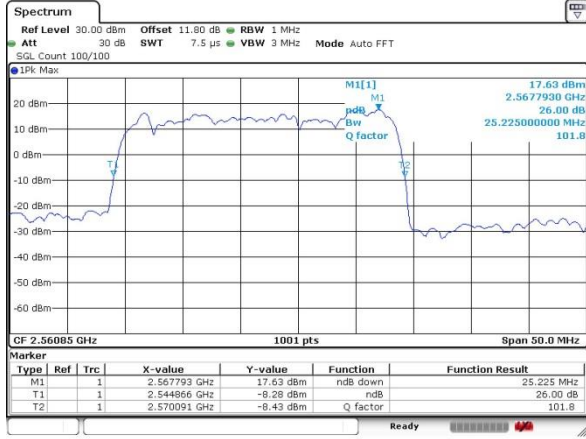
Date: 20 MAY 2017 01:50:00



LTE Band 41

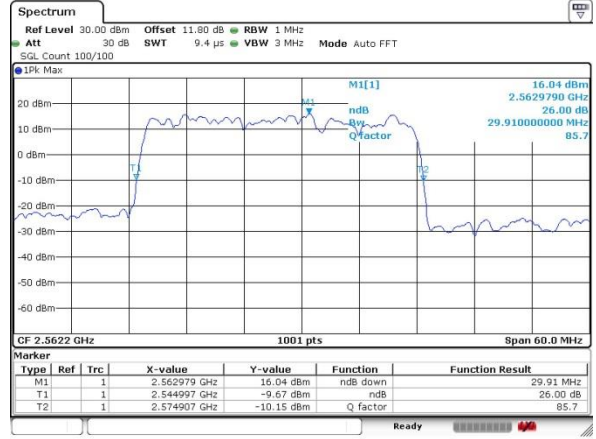
QPSK

Lowest Channel / 20MHz+5MHz



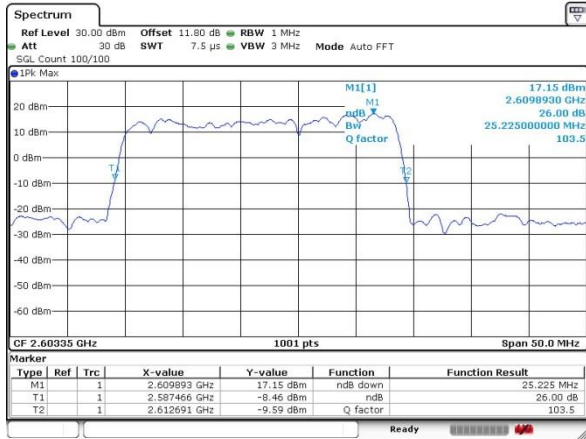
Date: 19 MAY 2017 13:57:25

Lowest Channel / 20MHz+10MHz



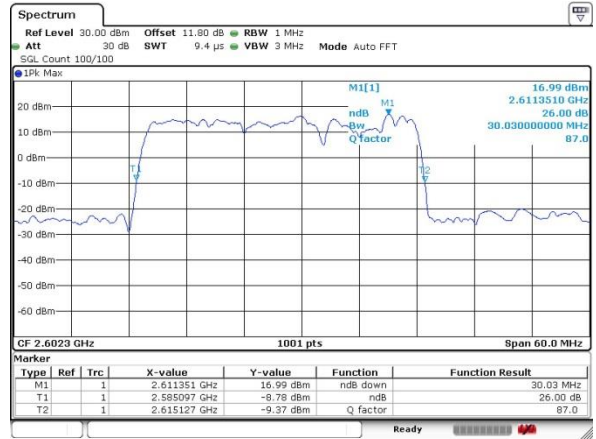
Date: 19 MAY 2017 18:36:10

Middle Channel / 20MHz+5MHz



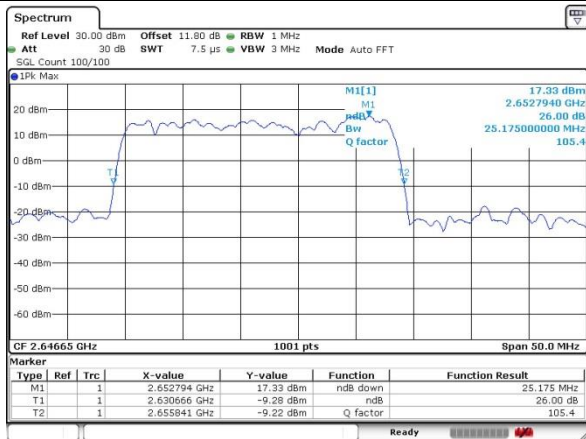
Date: 19 MAY 2017 14:08:20

Middle Channel / 20MHz+10MHz



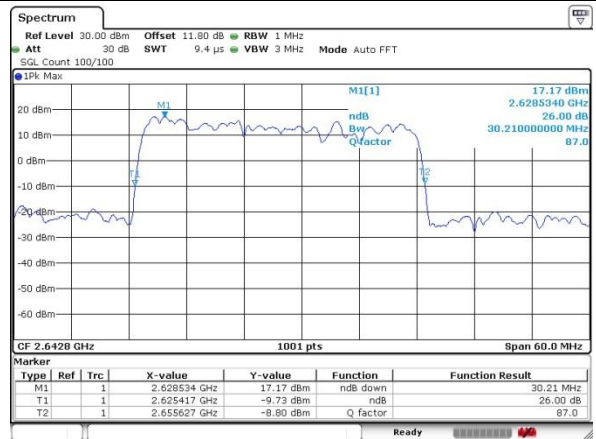
Date: 19 MAY 2017 18:45:48

Highest Channel / 20MHz+5MHz



Date: 19 MAY 2017 14:10:59

Highest Channel / 20MHz+10MHz



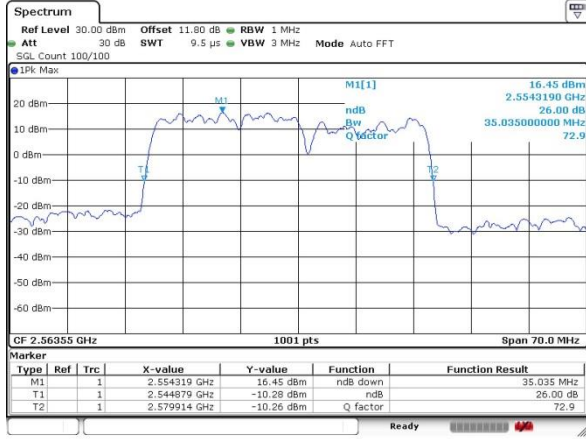
Date: 19 MAY 2017 18:49:51



LTE Band 41

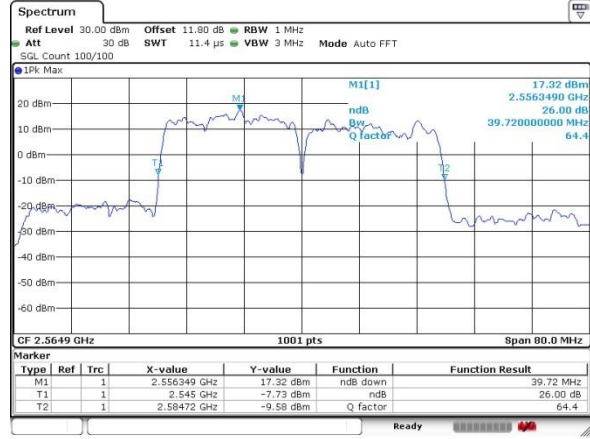
QPSK

Lowest Channel / 20MHz+15MHz



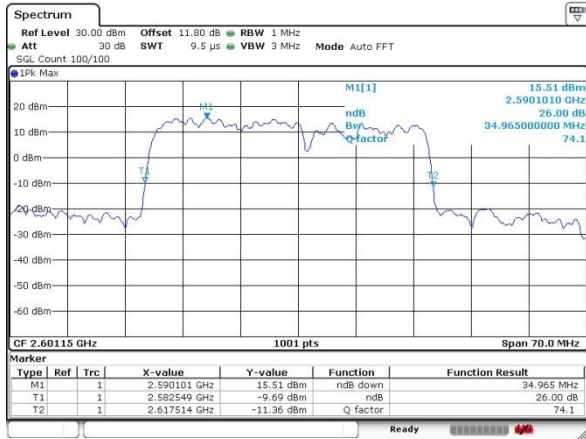
Date: 19 MAY 2017 20:12:24

Lowest Channel / 20MHz+20MHz



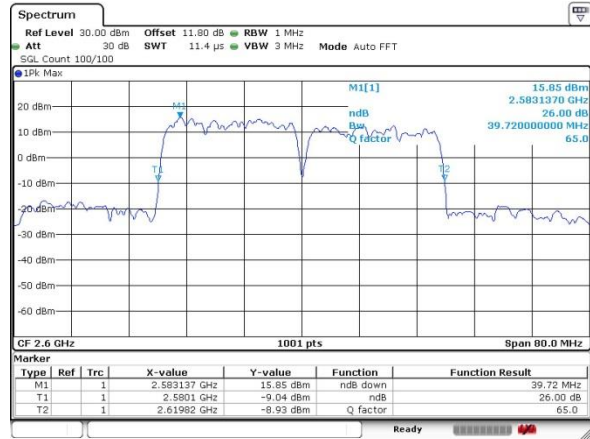
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Middle Channel / 20MHz+15MHz



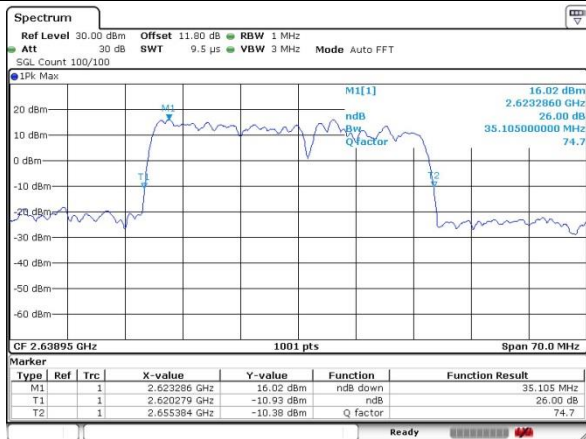
Date: 19 MAY 2017 22:21:12

Middle Channel / 20MHz+20MHz



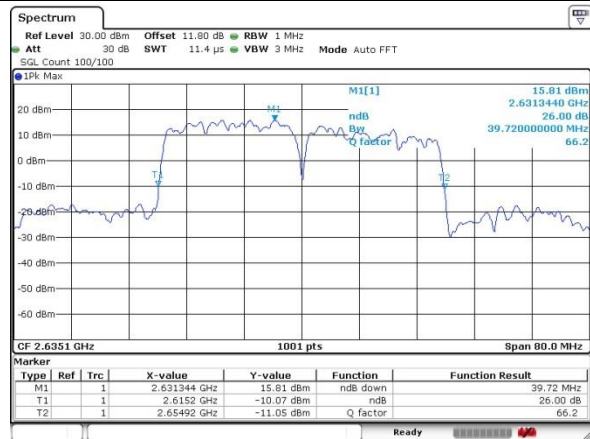
Date: 19 MAY 2017 22:06:15

Highest Channel / 20MHz+15MHz



Date: 19 MAY 2017 21:47:57

Highest Channel / 20MHz+20MHz



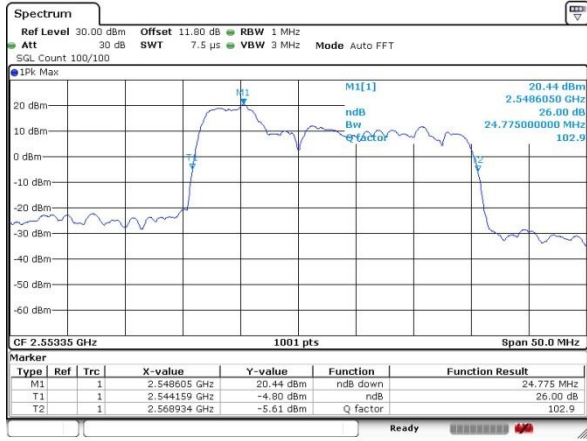
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LTE Band 41

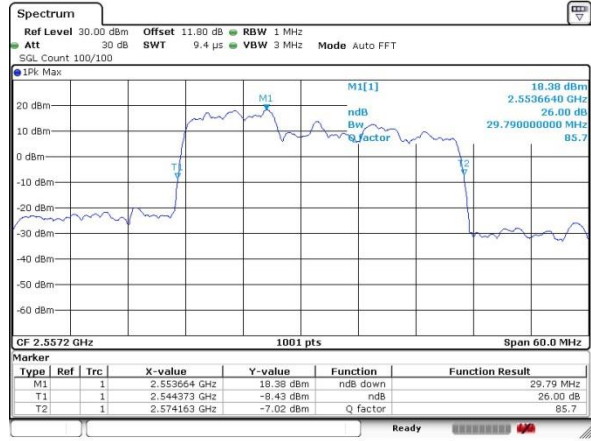
16QAM

Lowest Channel / 5MHz+20MHz



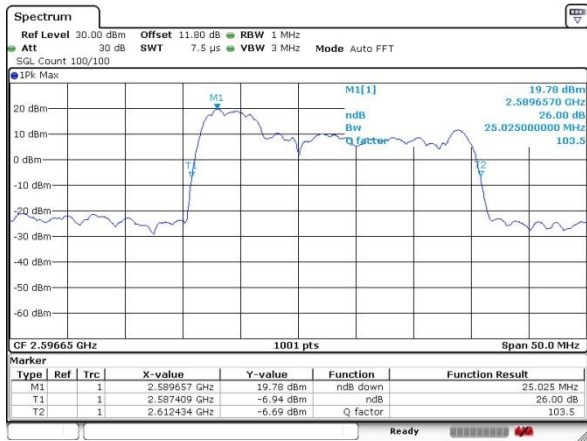
Date: 19 MAY 2017 11:54:14

Lowest Channel / 10MHz+20MHz



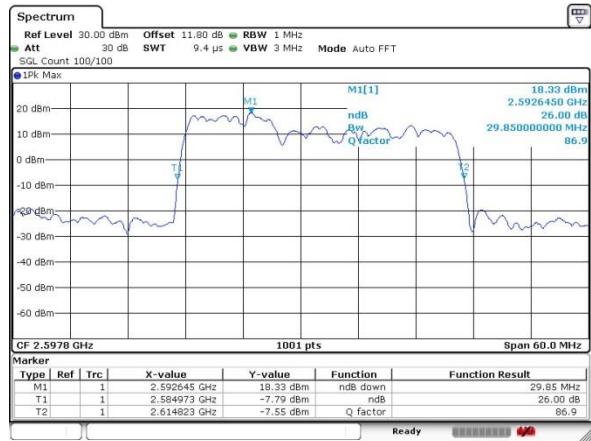
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Middle Channel / 5MHz+20MHz



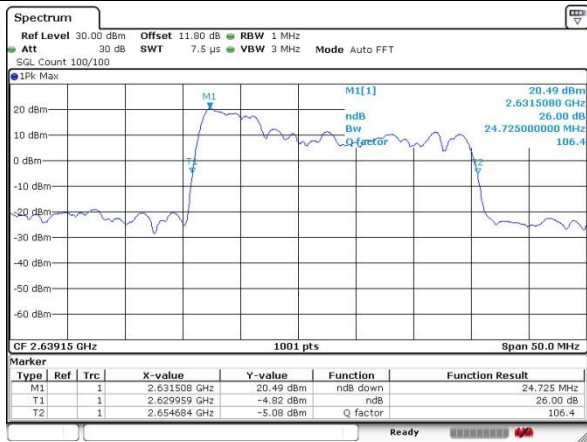
Date: 19 MAY 2017 11:56:15

Middle Channel / 10MHz+20MHz



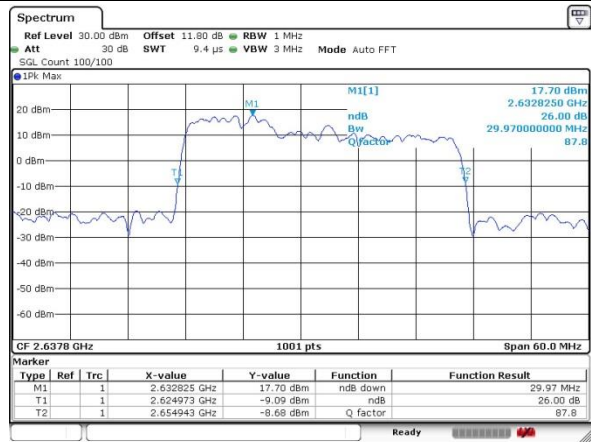
Date: 19 MAY 2017 16:47:36

Highest Channel / 5MHz+20MHz



Date: 19 MAY 2017 11:38:54

Highest Channel / 10MHz+20MHz



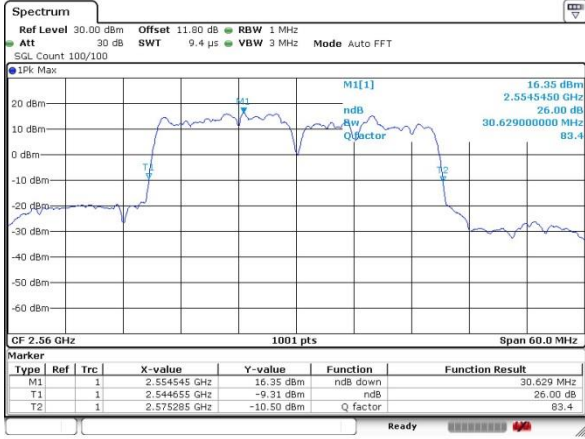
Date: 19 MAY 2017 16:49:16



LTE Band 41

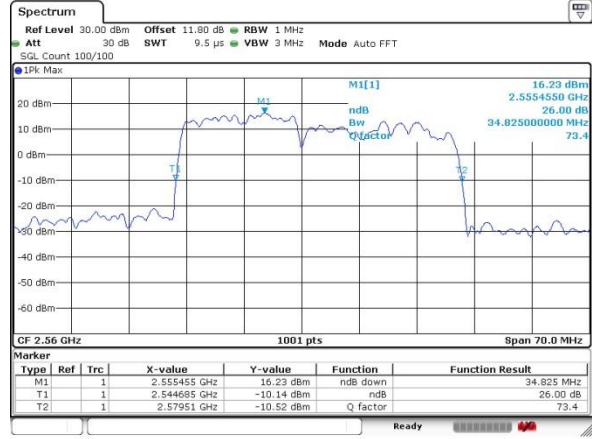
16QAM

Lowest Channel / 15MHz+15MHz



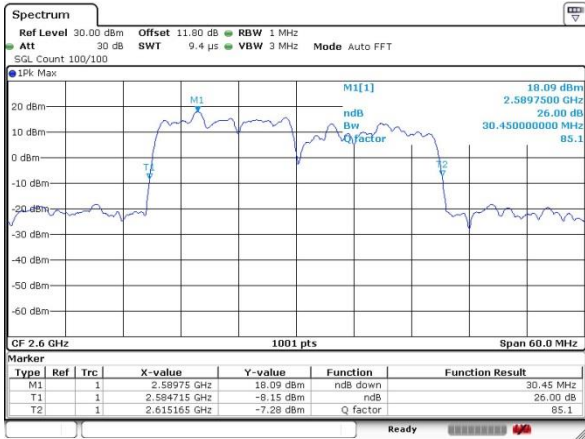
Date: 19 MAY 2017 19:01:32

Lowest Channel / 15MHz+20MHz



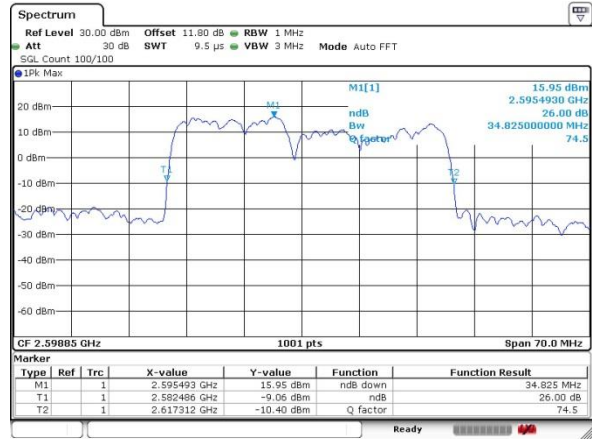
Date: 19 MAY 2017 19:24:12

Middle Channel / 15MHz+15MHz



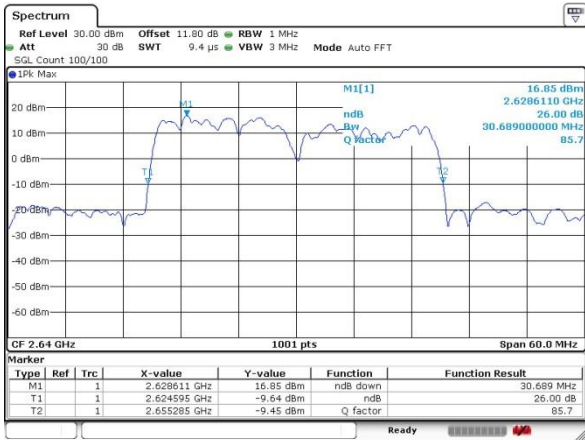
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Middle Channel / 15MHz+20MHz



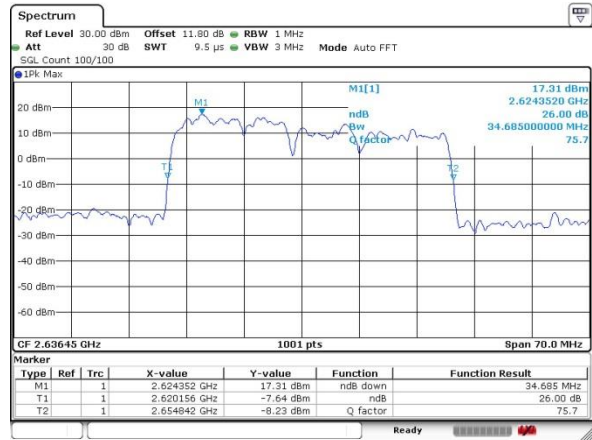
Date: 20 MAY 2017 01:53:51

Highest Channel / 15MHz+15MHz



Date: 19 MAY 2017 19:13:23

Highest Channel / 15MHz+20MHz



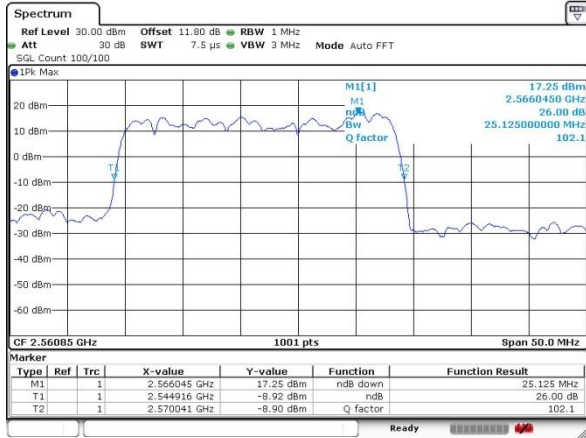
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LTE Band 41

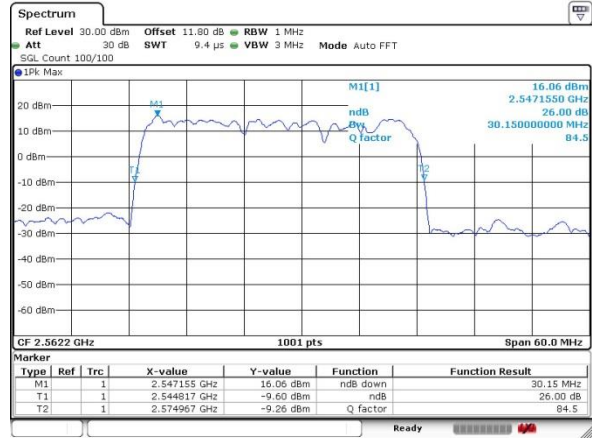
16QAM

Lowest Channel / 20MHz+5MHz



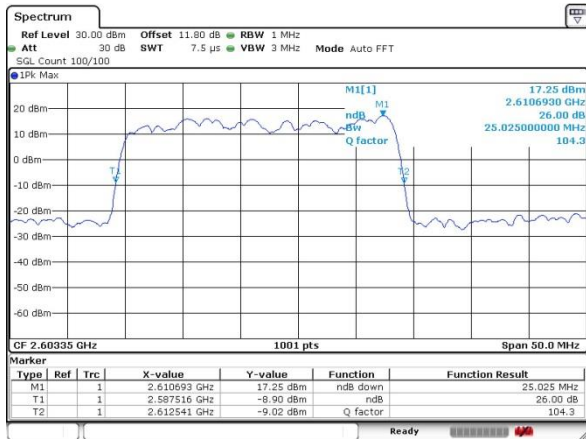
Date: 19 MAY 2017 13:57:07

Lowest Channel / 20MHz+10MHz



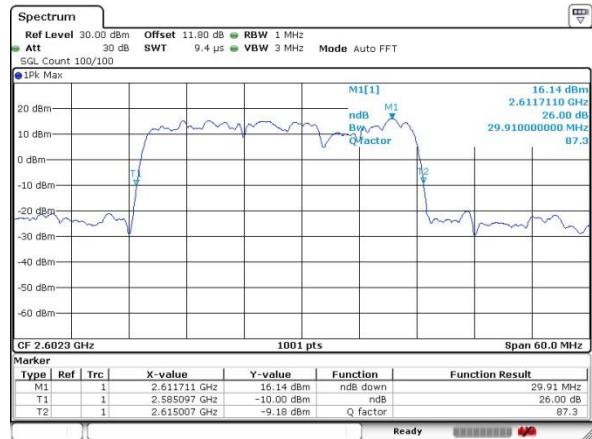
Date: 19 MAY 2017 18:35:57

Middle Channel / 20MHz+5MHz



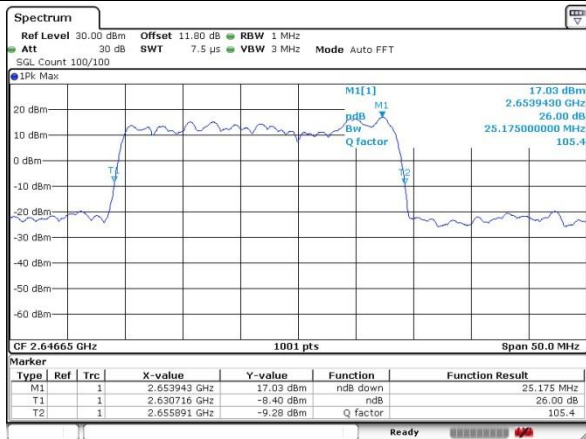
Date: 19 MAY 2017 14:08:40

Middle Channel / 20MHz+10MHz



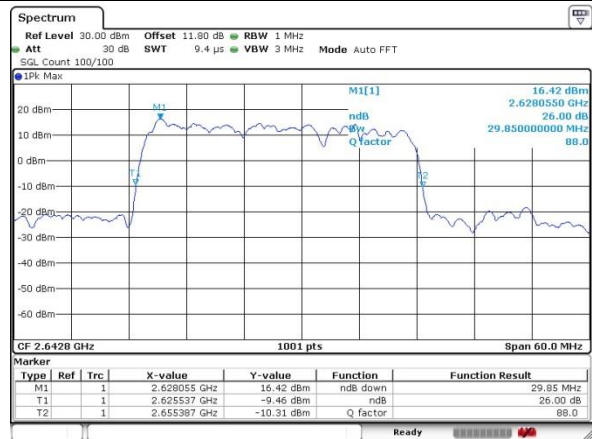
Date: 19 MAY 2017 18:48:01

Highest Channel / 20MHz+5MHz



Date: 19 MAY 2017 14:10:44

Highest Channel / 20MHz+10MHz



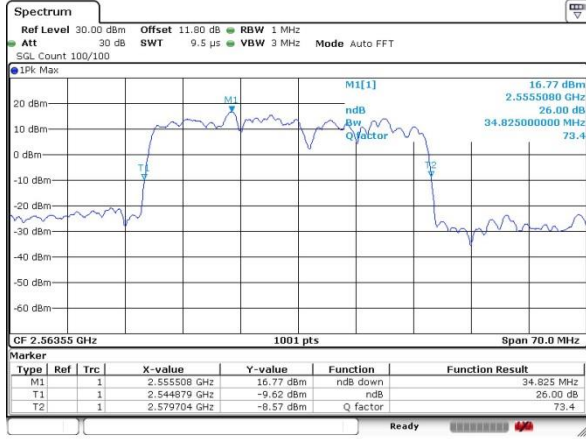
Date: 19 MAY 2017 18:49:40



LTE Band 41

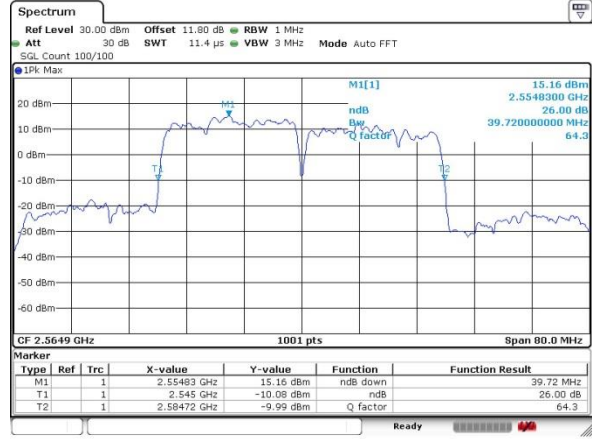
16QAM

Lowest Channel / 20MHz+15MHz



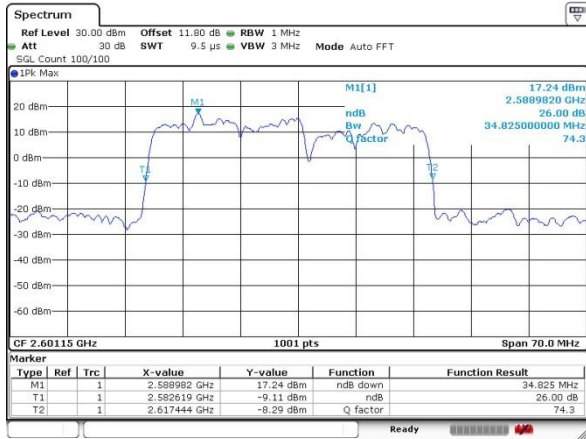
Date: 19 MAY 2017 20:12:14

Lowest Channel / 20MHz+20MHz



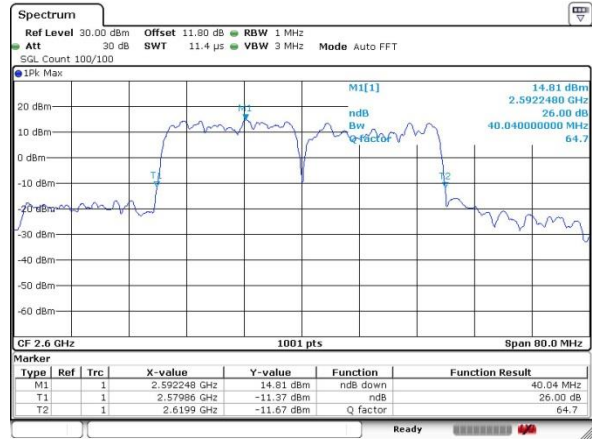
Date: 19 MAY 2017 21:57:16

Middle Channel / 20MHz+15MHz



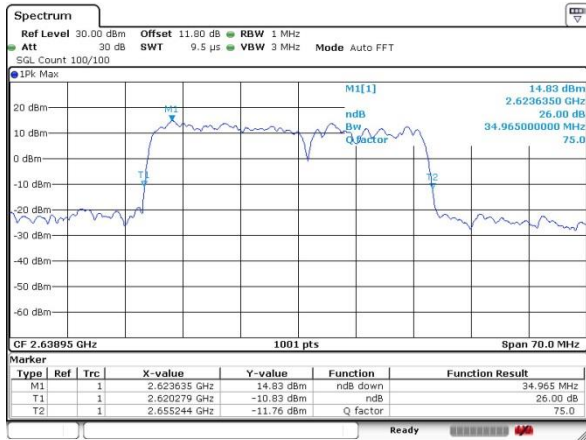
Date: 19 MAY 2017 22:21:22

Middle Channel / 20MHz+20MHz



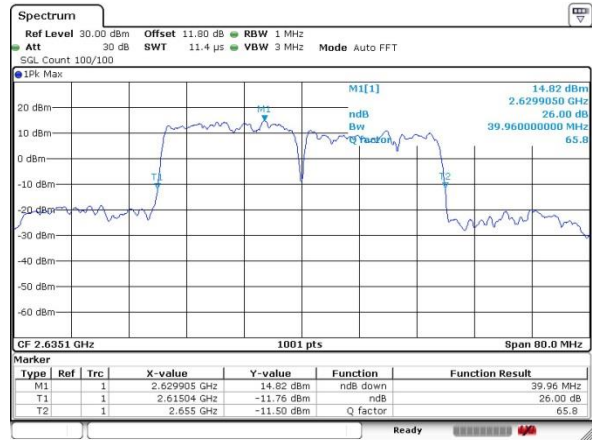
Date: 19 MAY 2017 22:06:01

Highest Channel / 20MHz+15MHz



Date: 19 MAY 2017 21:47:43

Highest Channel / 20MHz+20MHz



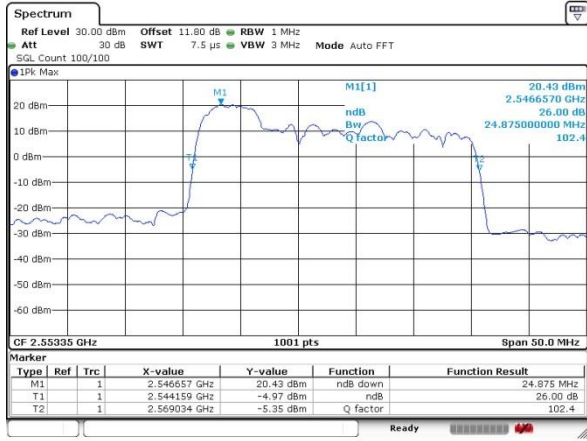
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LTE Band 41

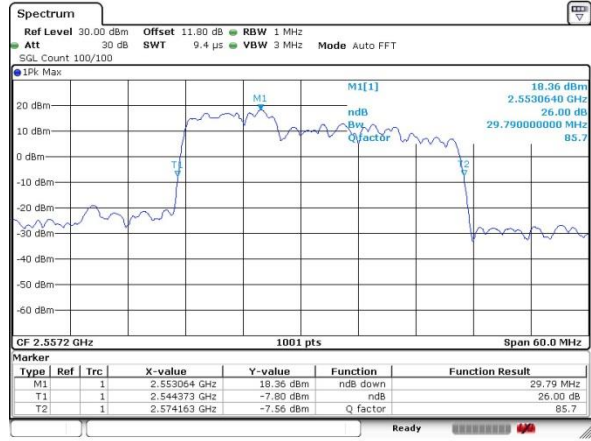
64QAM

Lowest Channel / 5MHz+20MHz



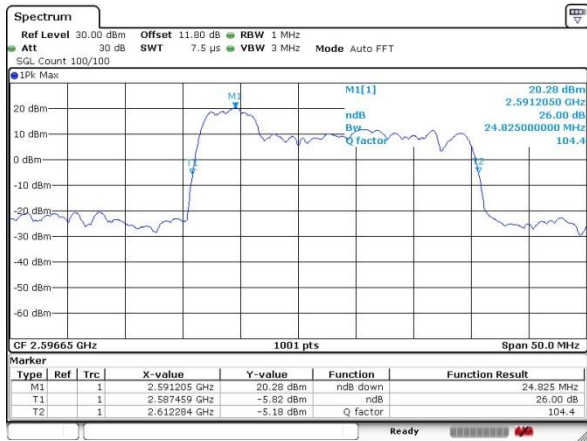
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Lowest Channel / 10MHz+20MHz



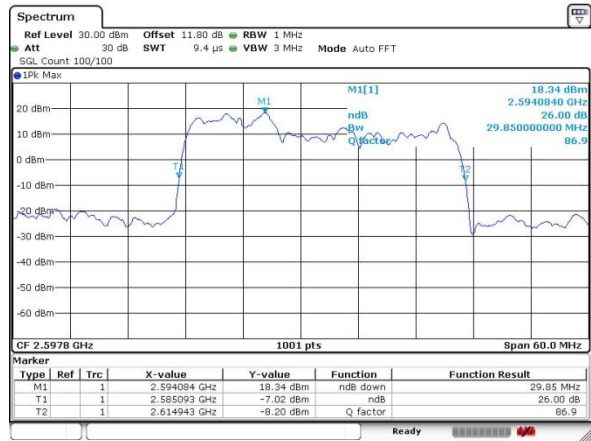
Date: 19 MAY 2017 16:31:19

Middle Channel / 5MHz+20MHz



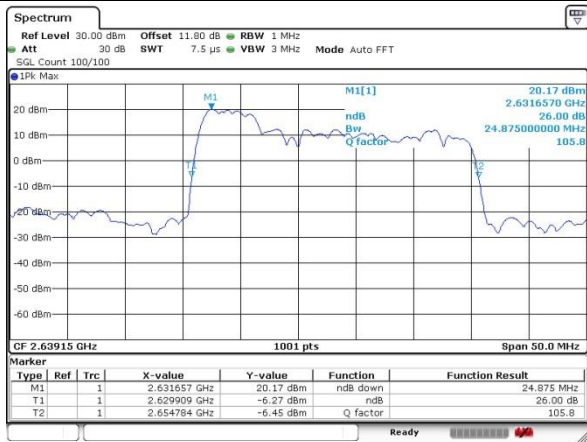
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Middle Channel / 10MHz+20MHz



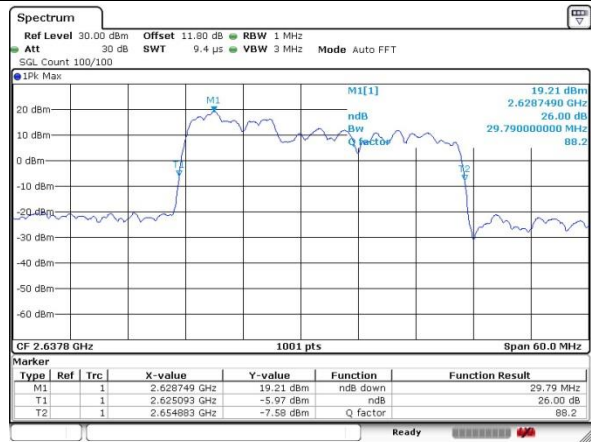
Date: 19 MAY 2017 16:47:50

Highest Channel / 5MHz+20MHz



Date: 19 MAY 2017 11:38:37

Highest Channel / 10MHz+20MHz



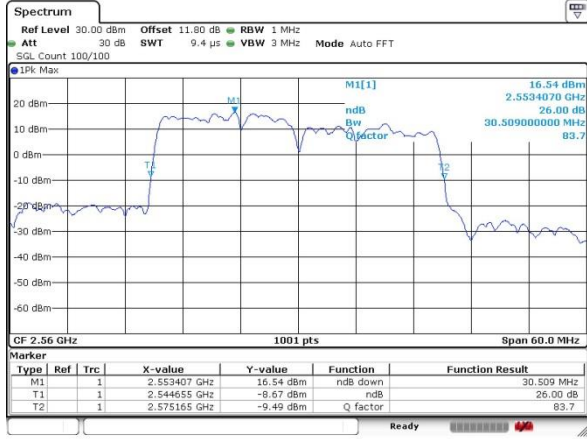
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LTE Band 41

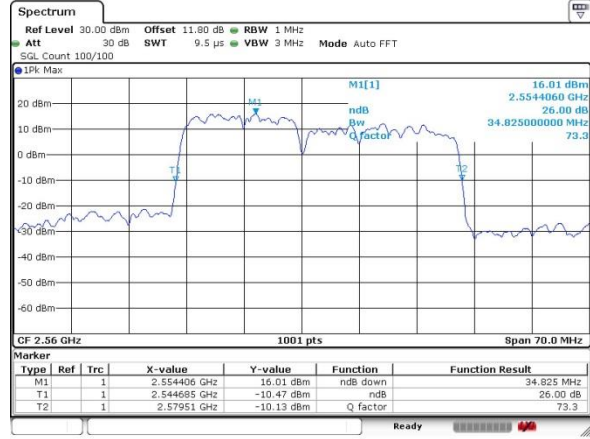
64QAM

Lowest Channel / 15MHz+15MHz



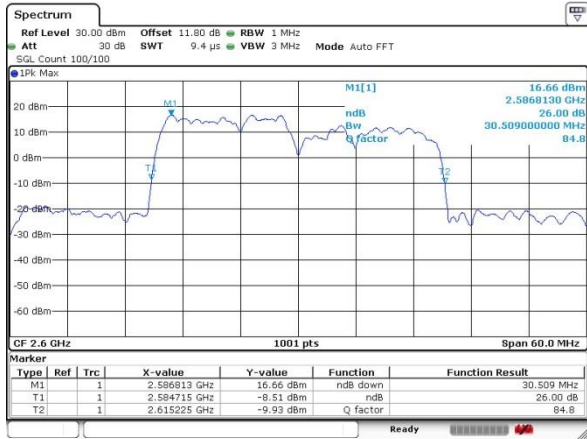
Date: 19 MAY 2017 19:01:14

Lowest Channel / 15MHz+20MHz



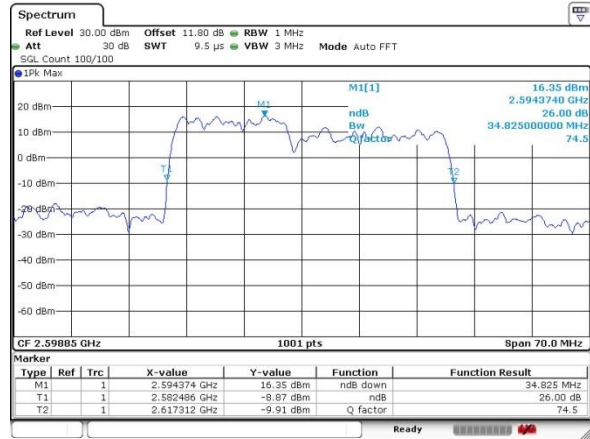
Date: 19 MAY 2017 19:24:00

Middle Channel / 15MHz+15MHz



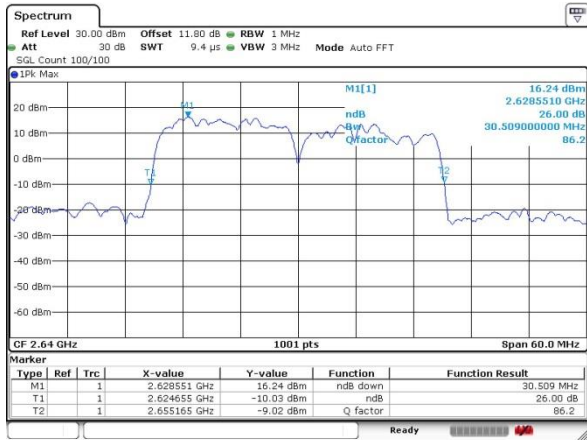
Date: 19 MAY 2017 19:10:17

Middle Channel / 15MHz+20MHz



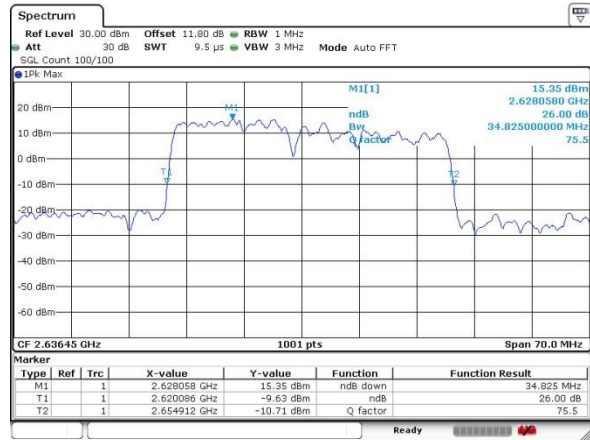
Date: 20 MAY 2017 01:53:41

Highest Channel / 15MHz+15MHz



Date: 19 MAY 2017 19:13:35

Highest Channel / 15MHz+20MHz



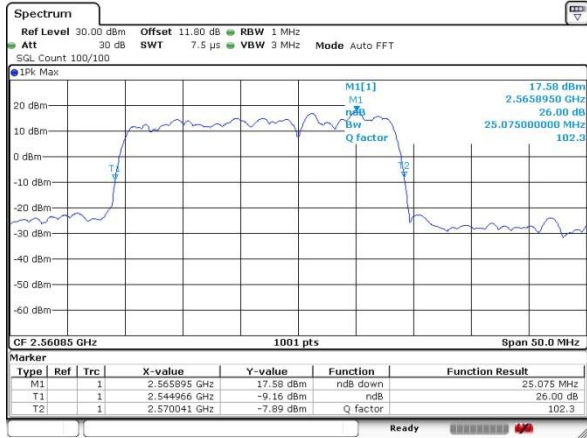
Date: 20 MAY 2017 01:50:23



LTE Band 41

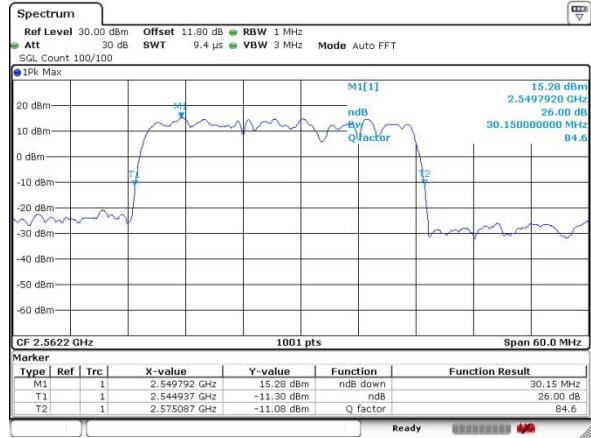
64QAM

Lowest Channel / 20MHz+5MHz



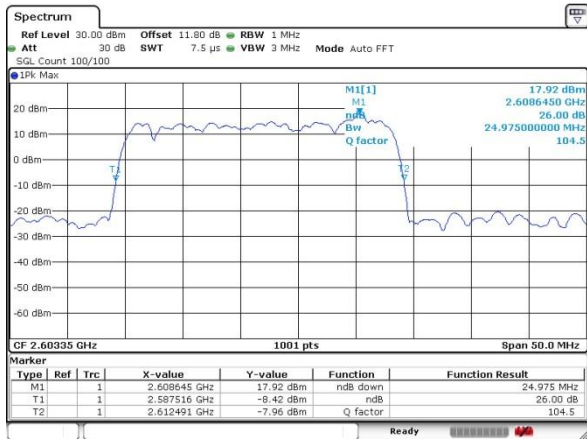
Date: 19 MAY 2017 13:56:47

Lowest Channel / 20MHz+10MHz



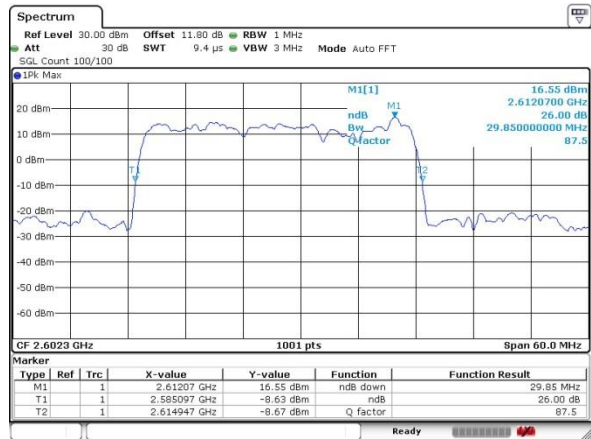
Date: 19 MAY 2017 18:35:46

Middle Channel / 20MHz+5MHz



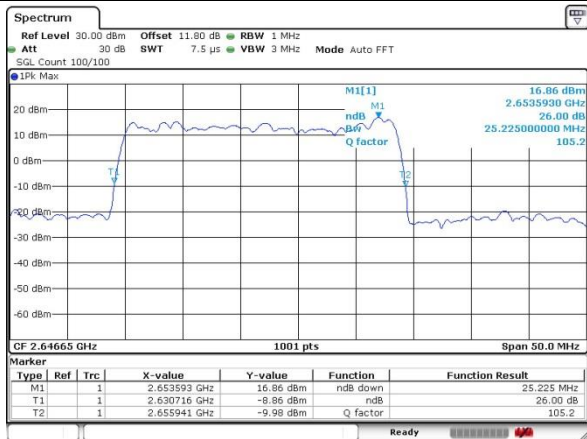
Date: 19 MAY 2017 14:08:57

Middle Channel / 20MHz+10MHz



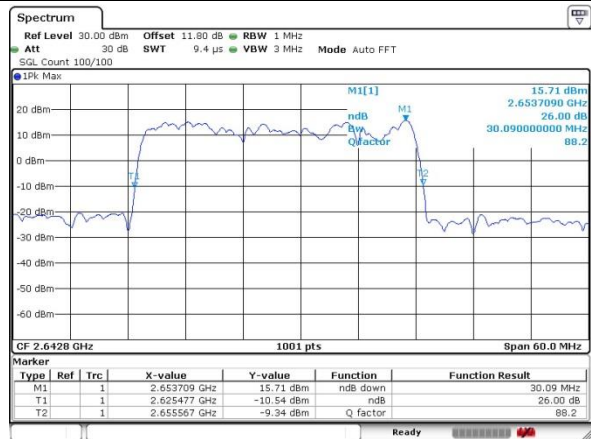
Date: 19 MAY 2017 18:48:12

Highest Channel / 20MHz+5MHz



Date: 19 MAY 2017 14:10:19

Highest Channel / 20MHz+10MHz



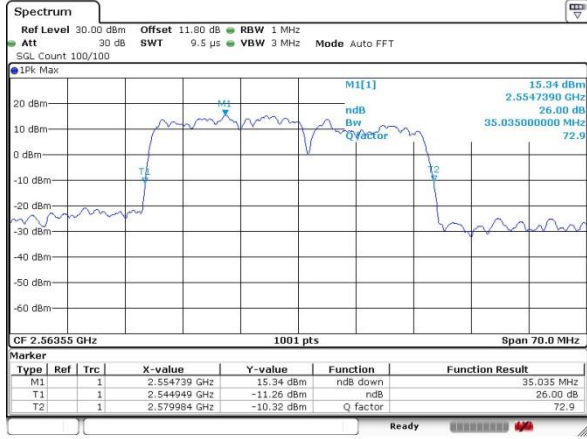
Date: 19 MAY 2017 18:49:27



LTE Band 41

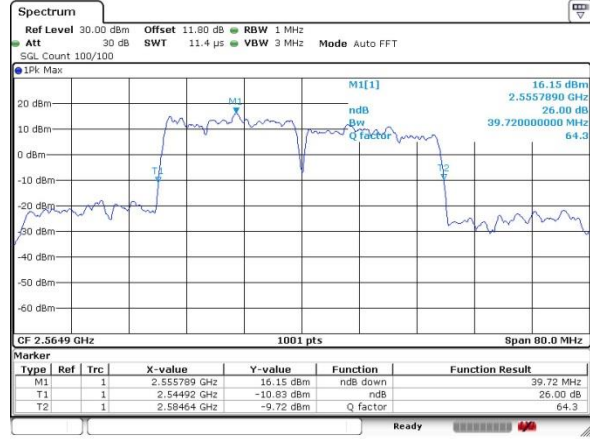
64QAM

Lowest Channel / 20MHz+15MHz



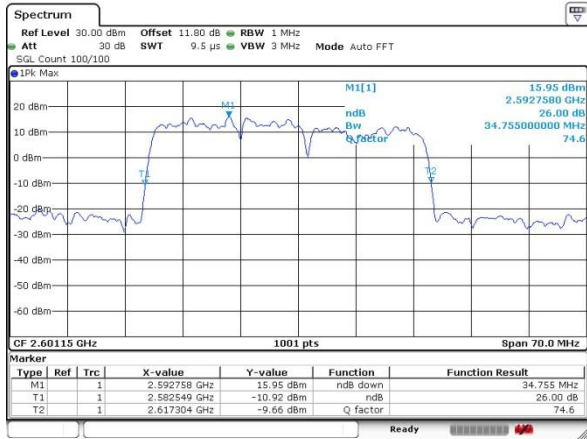
Date: 19 MAY 2017 20:12:04

Lowest Channel / 20MHz+20MHz



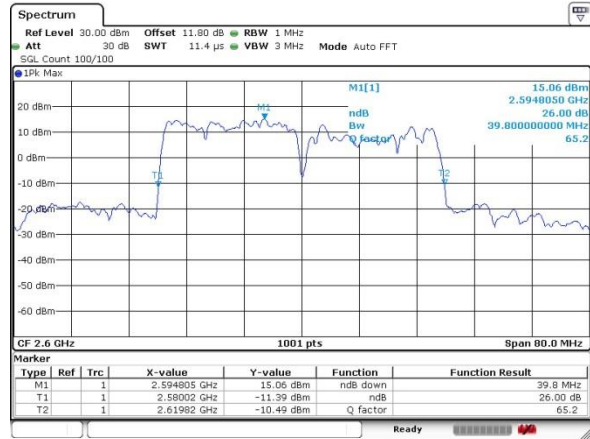
Date: 19 MAY 2017 21:56:59

Middle Channel / 20MHz+15MHz



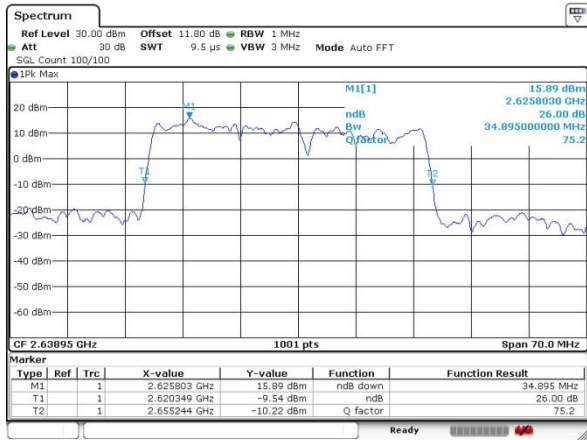
Date: 19 MAY 2017 22:21:41

Middle Channel / 20MHz+20MHz



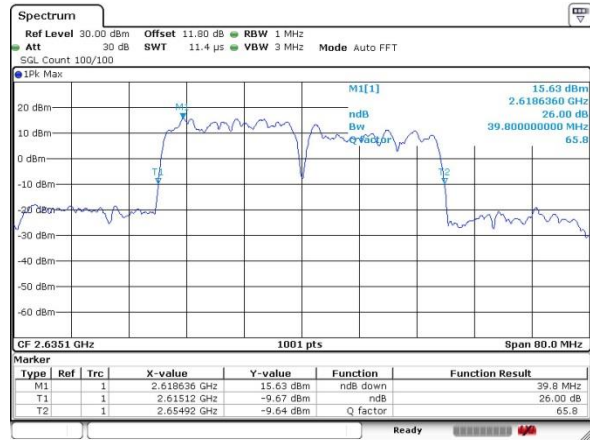
Date: 19 MAY 2017 22:05:47

Highest Channel / 20MHz+15MHz



Date: 19 MAY 2017 21:47:32

Highest Channel / 20MHz+20MHz



Date: 19 MAY 2017 22:09:59



### Occupied Bandwidth

| Mode       | LTE Band 41 : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| QPSK       |                           |             |             |             |
| BW         | 5MHz+20MHz                | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 23.33                     | 27.93       | 28.59       | 32.59       |
| Middle CH  | 23.33                     | 27.87       | 28.59       | 32.52       |
| Highest CH | 23.13                     | 27.99       | 28.65       | 32.73       |
| BW         | 20MHz+5MHz                | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 23.23                     | 27.93       | 33.94       | 37.08       |
| Middle CH  | 23.18                     | 28.05       | 32.31       | 37.48       |
| Highest CH | 23.33                     | 27.93       | 32.73       | 37.72       |

| Mode       | LTE Band 41 : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| 16QAM      |                           |             |             |             |
| BW         | 5MHz+20MHz                | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 23.13                     | 27.93       | 28.35       | 32.73       |
| Middle CH  | 23.18                     | 27.99       | 28.59       | 32.52       |
| Highest CH | 22.93                     | 28.23       | 28.59       | 32.73       |
| BW         | 20MHz+5MHz                | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 23.18                     | 27.81       | 33.01       | 37.32       |
| Middle CH  | 23.58                     | 28.11       | 32.94       | 37.72       |
| Highest CH | 23.48                     | 28.11       | 32.87       | 37.48       |

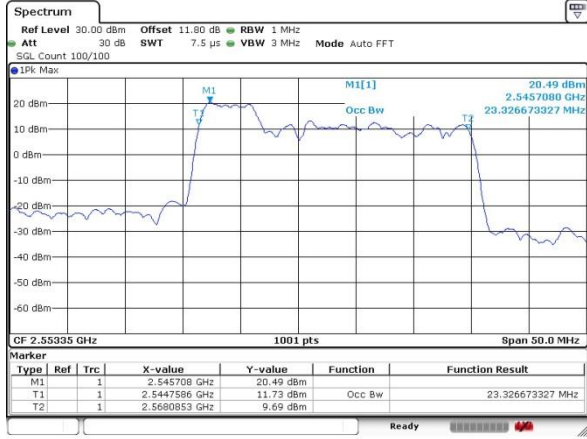
| Mode       | LTE Band 41 : 99%OBW(MHz) |             |             |             |
|------------|---------------------------|-------------|-------------|-------------|
| 64QAM      |                           |             |             |             |
| BW         | 5MHz+20MHz                | 10MHz+20MHz | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 23.23                     | 28.05       | 28.29       | 32.59       |
| Middle CH  | 23.43                     | 28.29       | 28.41       | 32.87       |
| Highest CH | 23.43                     | 27.81       | 28.59       | 32.59       |
| BW         | 20MHz+5MHz                | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 23.48                     | 27.93       | 33.52       | 37.48       |
| Middle CH  | 23.33                     | 28.11       | 32.8        | 38.04       |
| Highest CH | 23.38                     | 27.87       | 32.8        | 37.40       |



LTE Band 41

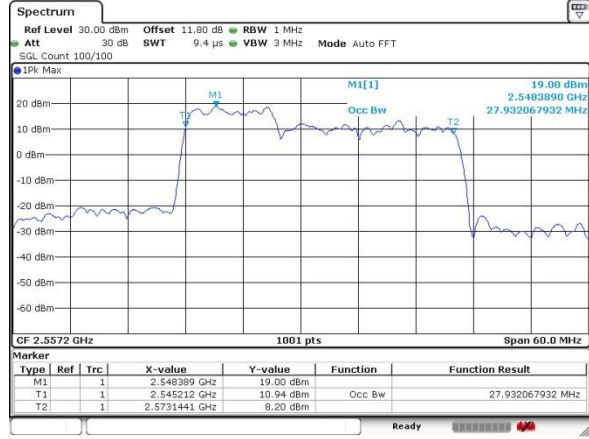
QPSK

Lowest Channel / 5MHz+20MHz



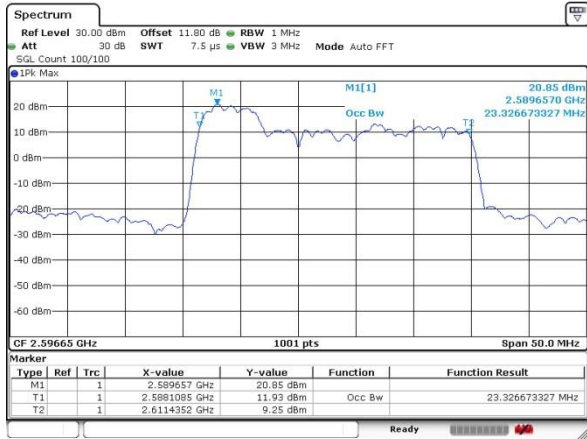
Date: 19 MAY 2017 11:53:10

Lowest Channel / 10MHz+20MHz



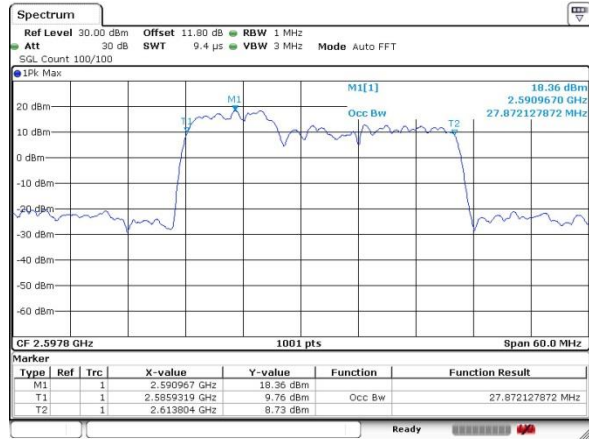
Date: 19 MAY 2017 16:29:57

Middle Channel / 5MHz+20MHz



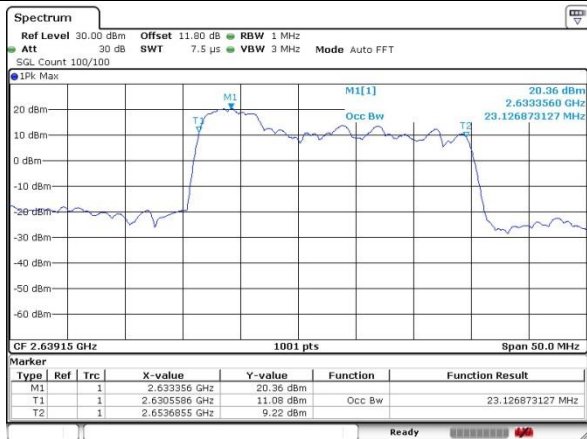
Date: 19 MAY 2017 11:57:06

Middle Channel / 10MHz+20MHz



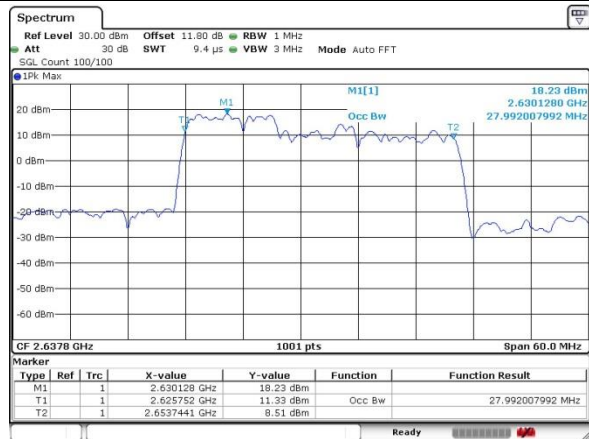
Date: 19 MAY 2017 16:48:28

Highest Channel / 5MHz+20MHz



Date: 19 MAY 2017 11:23:13

Highest Channel / 10MHz+20MHz



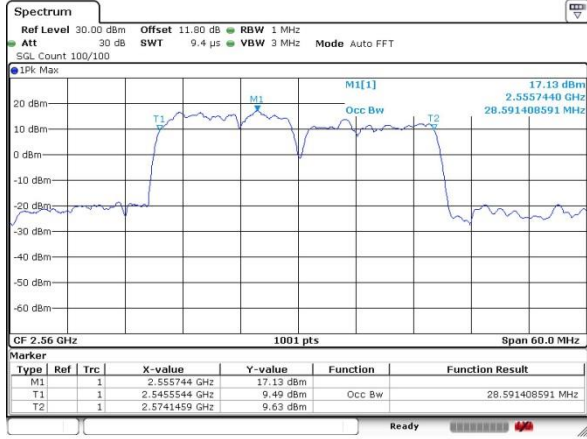
Date: 19 MAY 2017 16:49:47



LTE Band 41

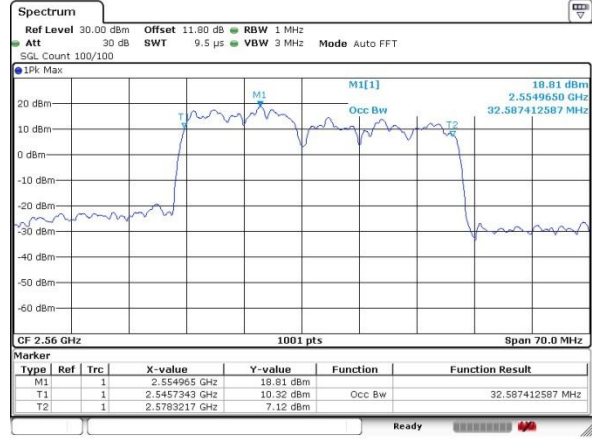
QPSK

Lowest Channel / 15MHz+15MHz



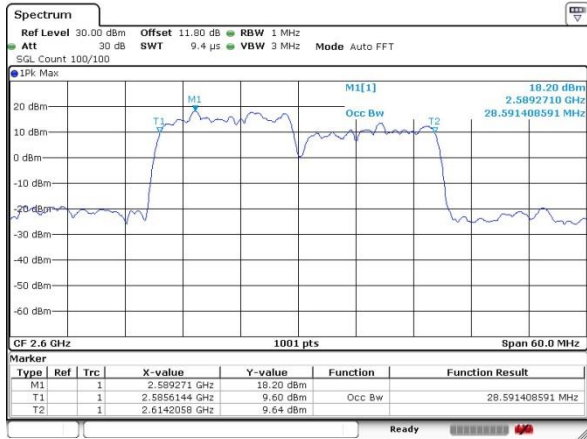
Date: 19 MAY 2017 19:00:24

Lowest Channel / 15MHz+20MHz



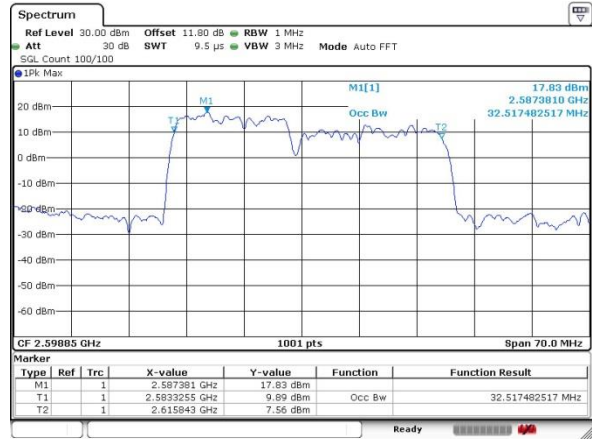
Date: 19 MAY 2017 19:23:14

Middle Channel / 15MHz+15MHz



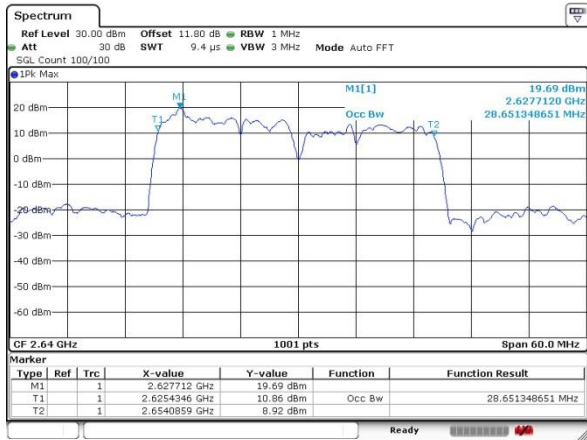
Date: 19 MAY 2017 19:09:37

Middle Channel / 15MHz+20MHz



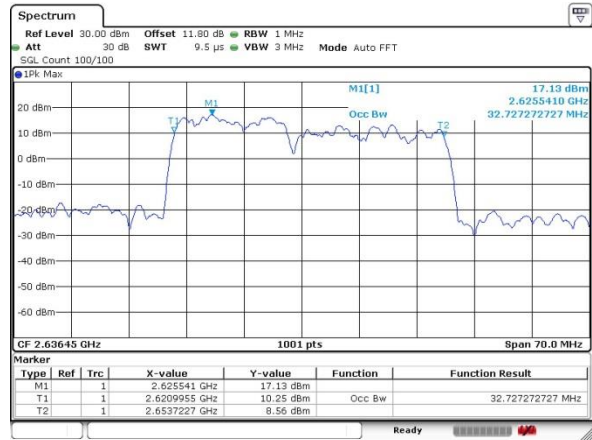
Date: 20 MAY 2017 01:54:29

Highest Channel / 15MHz+15MHz



Date: 19 MAY 2017 19:14:28

Highest Channel / 15MHz+20MHz



Date: 20 MAY 2017 01:49:42