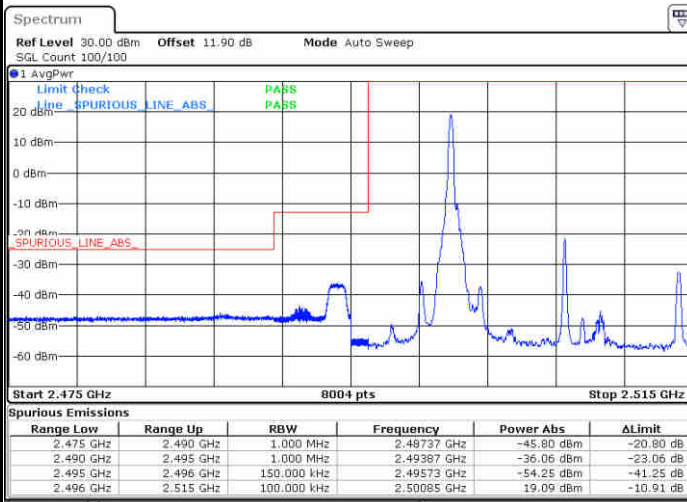




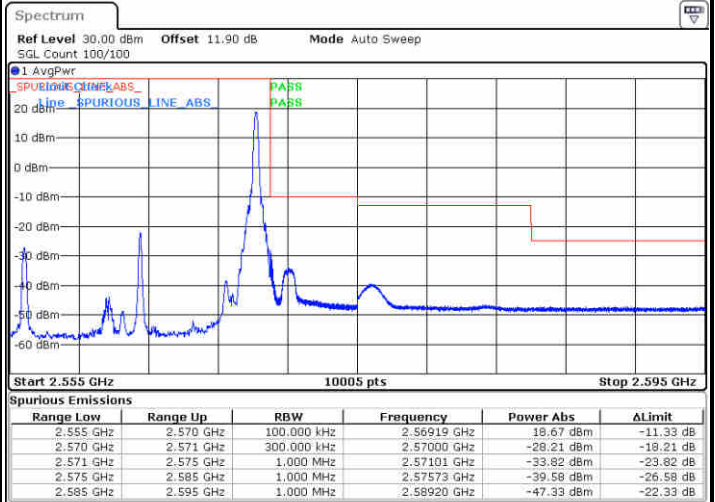
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



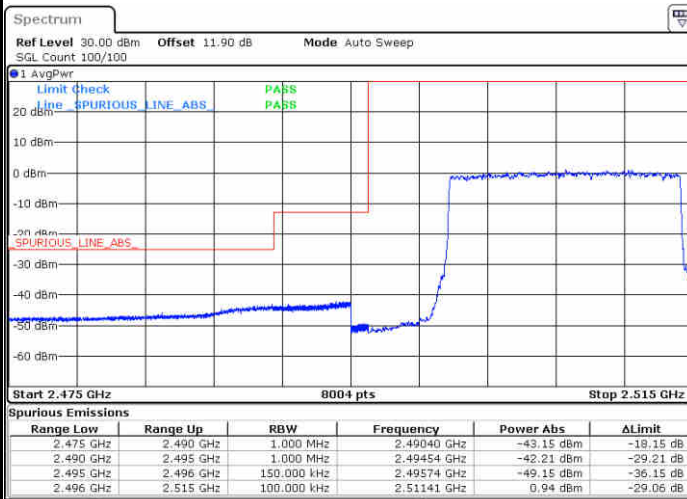
Date: 27.SEP.2017 01:28:28

Highest Band Edge / 1 RB



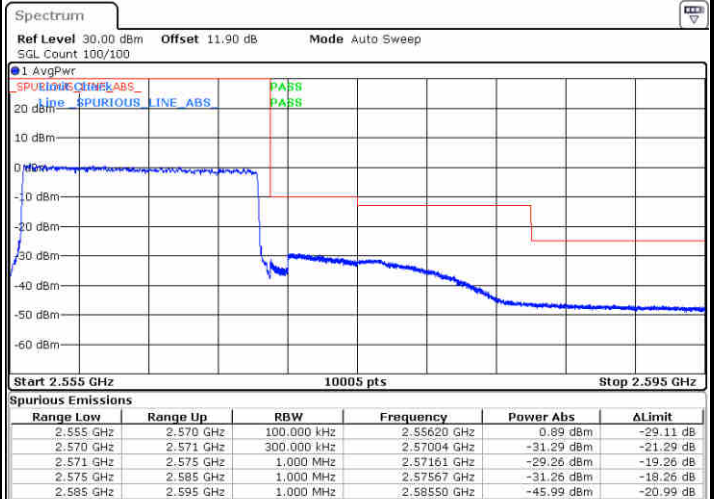
Date: 27.SEP.2017 01:35:58

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:28:47

Highest Band Edge / Full RB

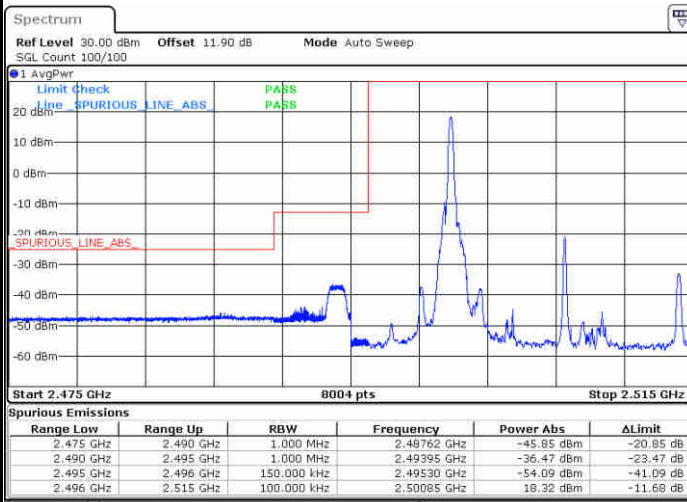


Date: 27.SEP.2017 01:38:16



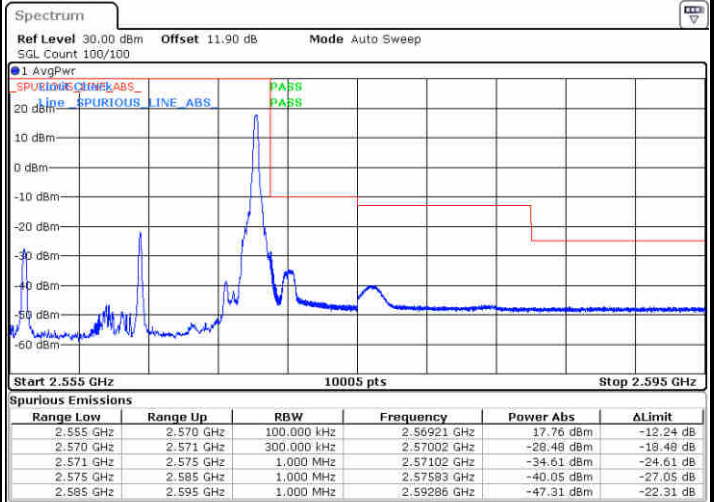
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



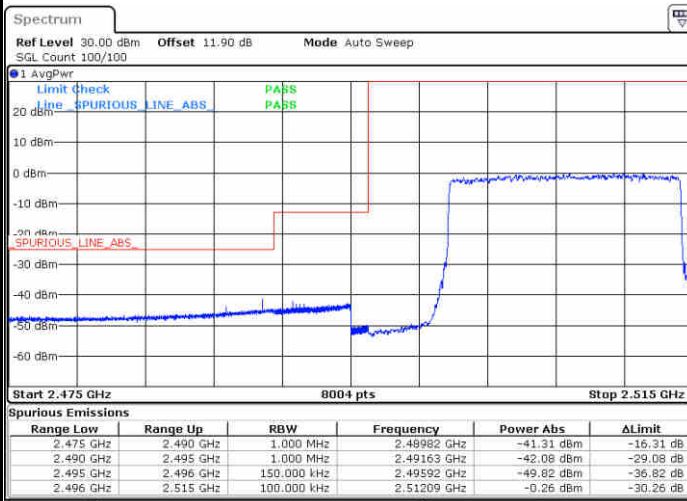
Date: 27.SEP.2017 01:27:37

Highest Band Edge / 1 RB



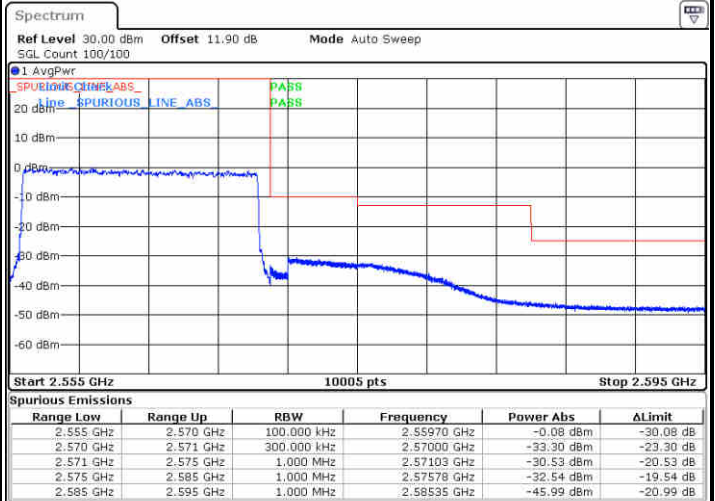
Date: 27.SEP.2017 01:37:07

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:29:56

Highest Band Edge / Full RB

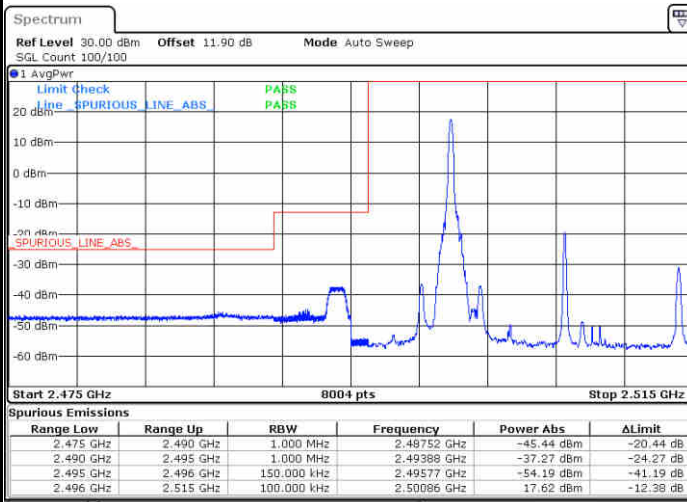


Date: 27.SEP.2017 01:39:26



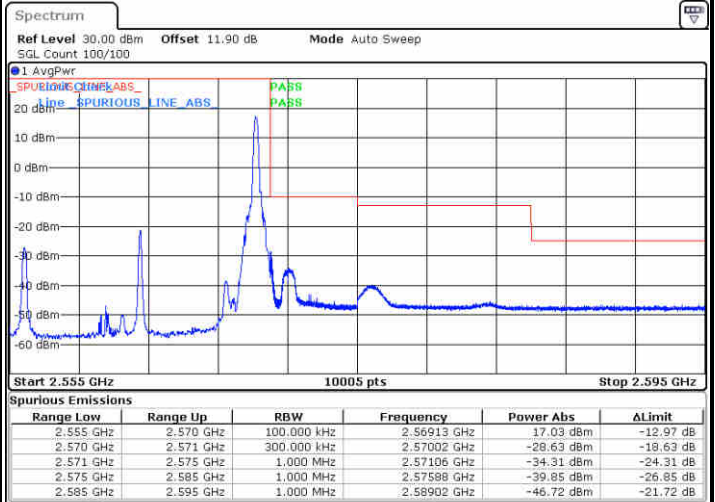
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



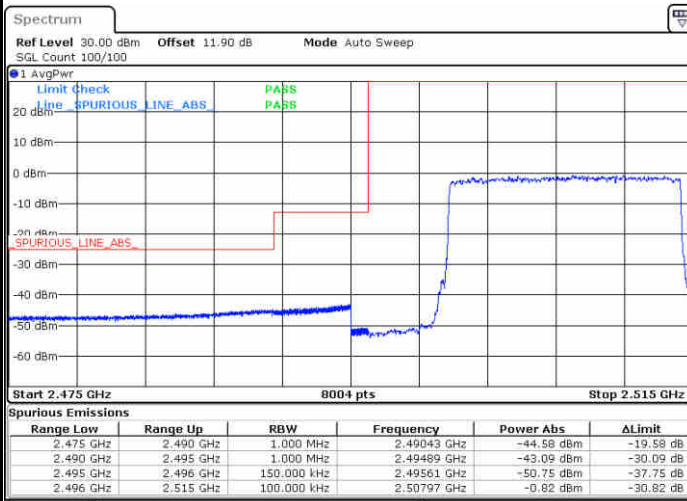
Date: 30.SEP.2017 15:19:07

Highest Band Edge / 1 RB



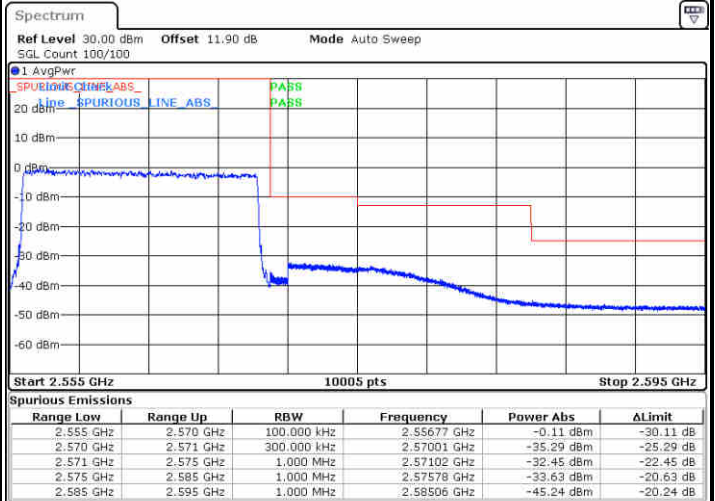
Date: 30.SEP.2017 15:23:52

Lowest Band Edge / Full RB



Date: 30.SEP.2017 15:20:16

Highest Band Edge / Full RB

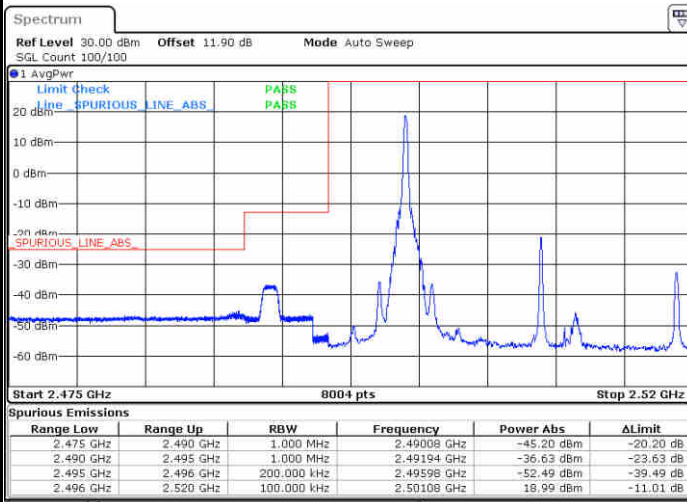


Date: 30.SEP.2017 15:25:01



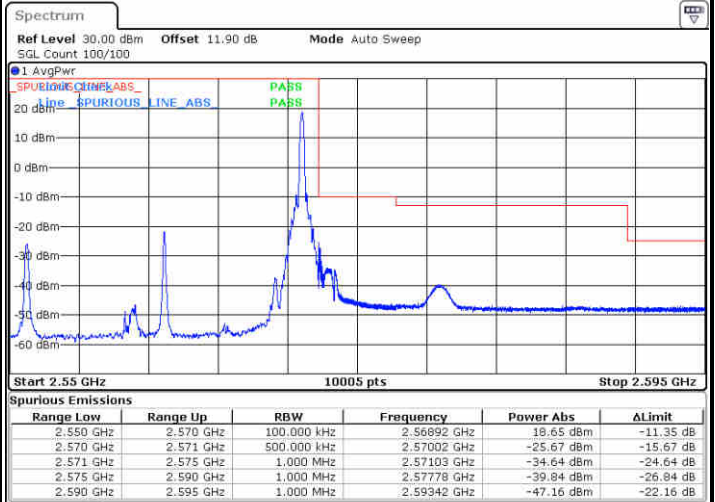
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



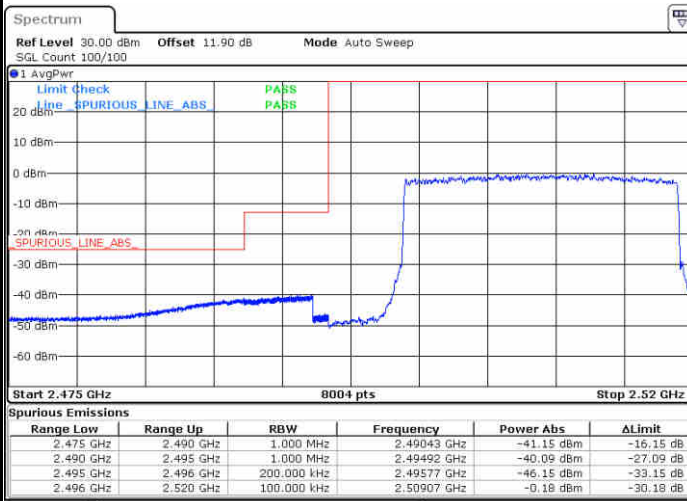
Date: 27.SEP.2017 01:43:01

Highest Band Edge / 1 RB



Date: 27.SEP.2017 01:52:32

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:45:20

Highest Band Edge / Full RB



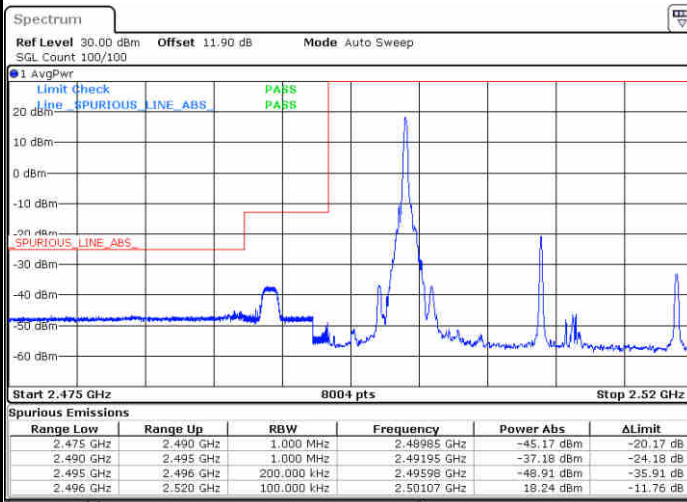
Date: 27.SEP.2017 01:55:58





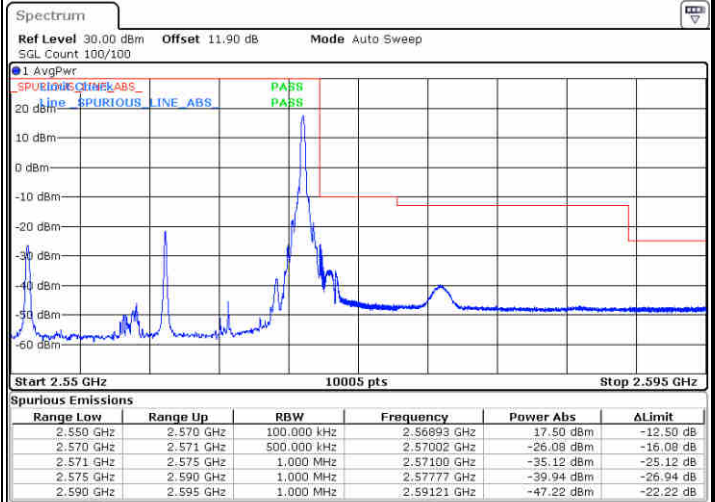
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



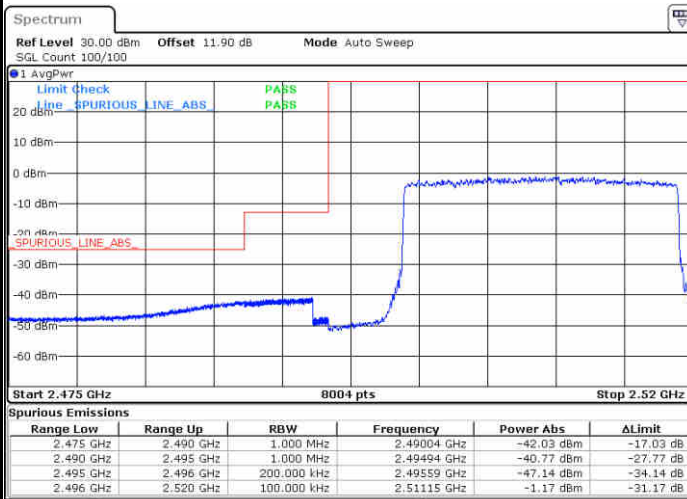
Date: 27.SEP.2017 01:44:11

Highest Band Edge / 1RB



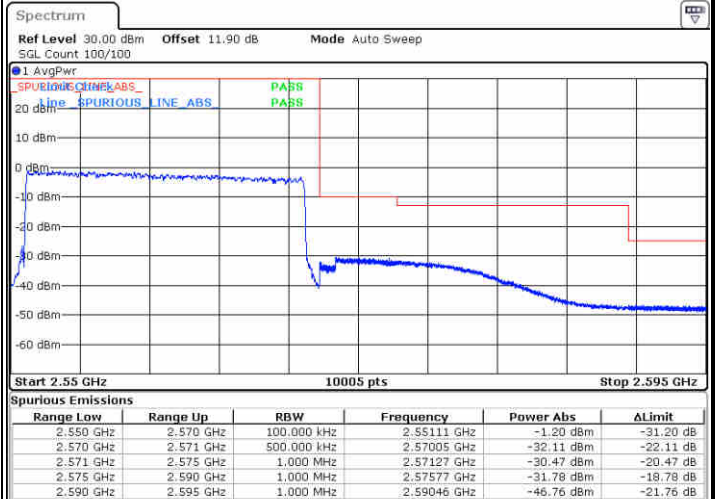
Date: 27.SEP.2017 01:53:41

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:46:29

Highest Band Edge / Full RB

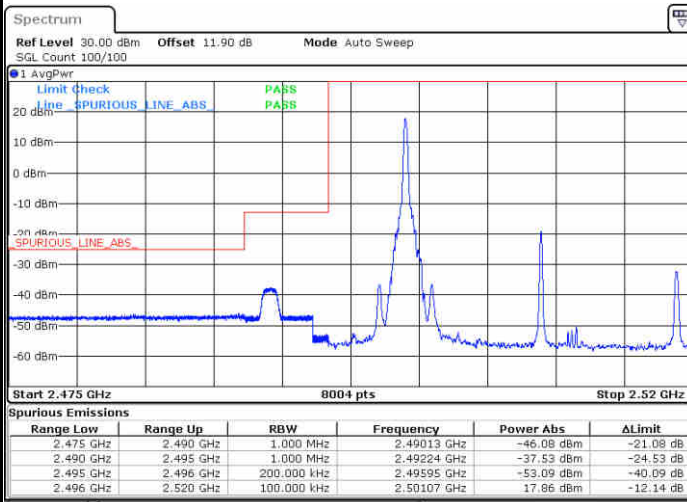


Date: 27.SEP.2017 01:54:50



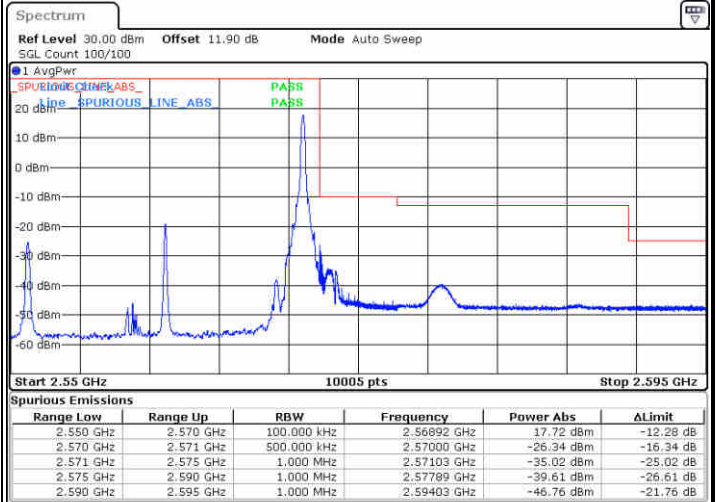
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



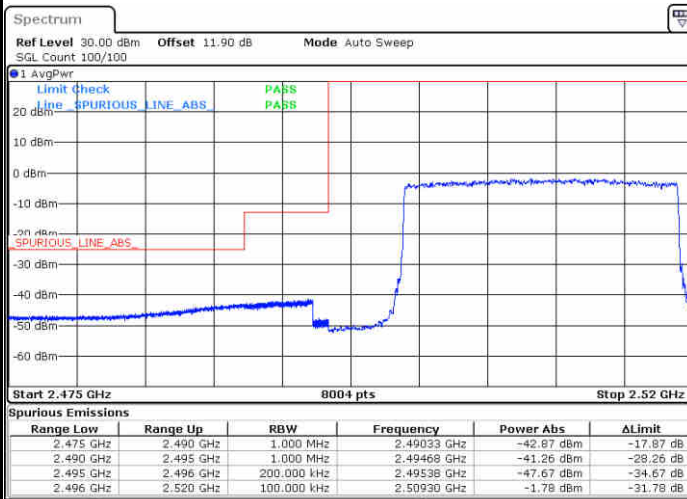
Date: 30.SEP.2017 15:27:24

Highest Band Edge / 1 RB



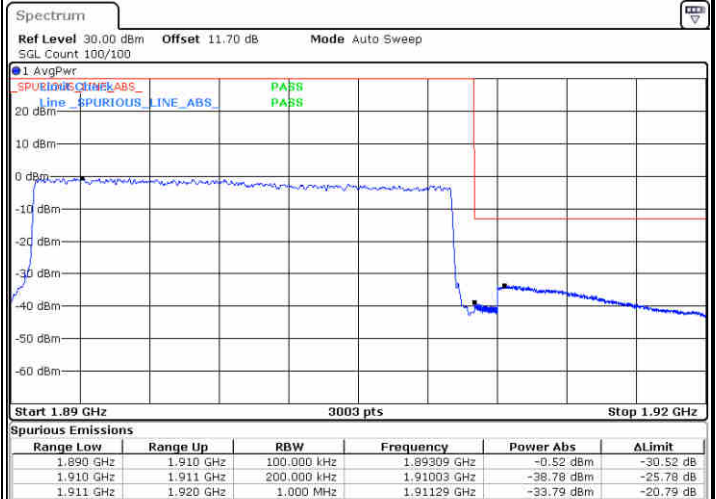
Date: 30.SEP.2017 15:32:09

Lowest Band Edge / Full RB



Date: 30.SEP.2017 15:28:33

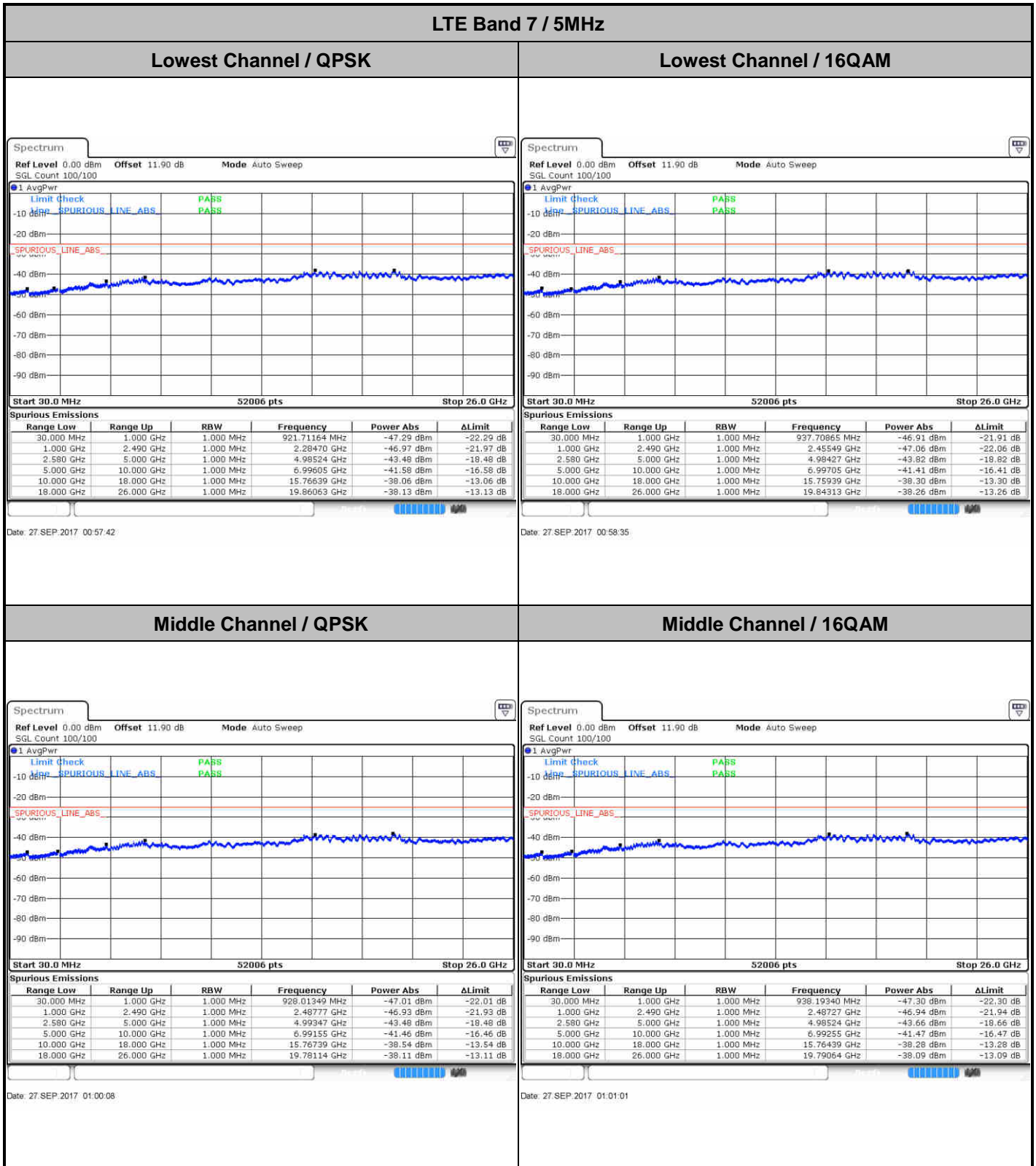
Highest Band Edge / Full RB



Date: 30.SEP.2017 18:16:53



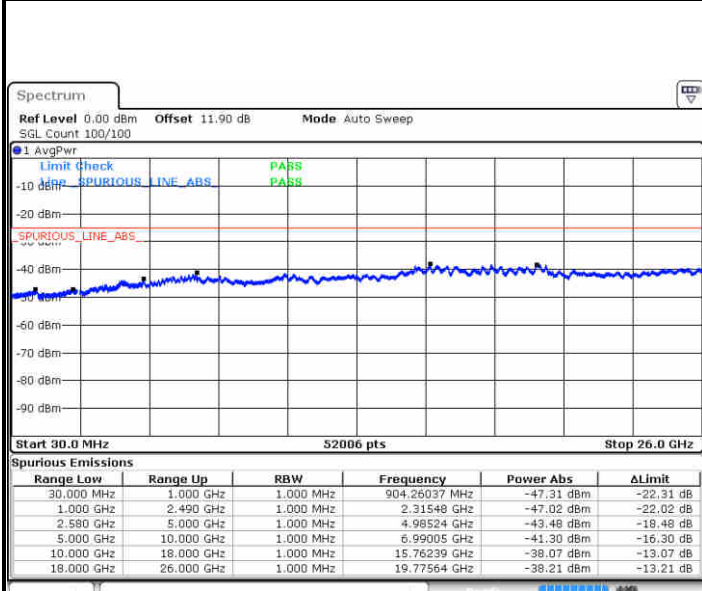
# Conducted Spurious Emission





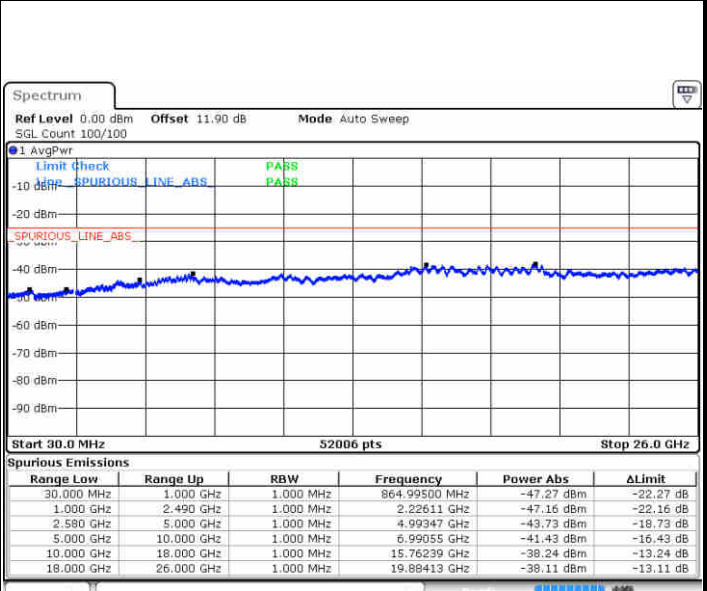
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 27.SEP.2017 01:07:12

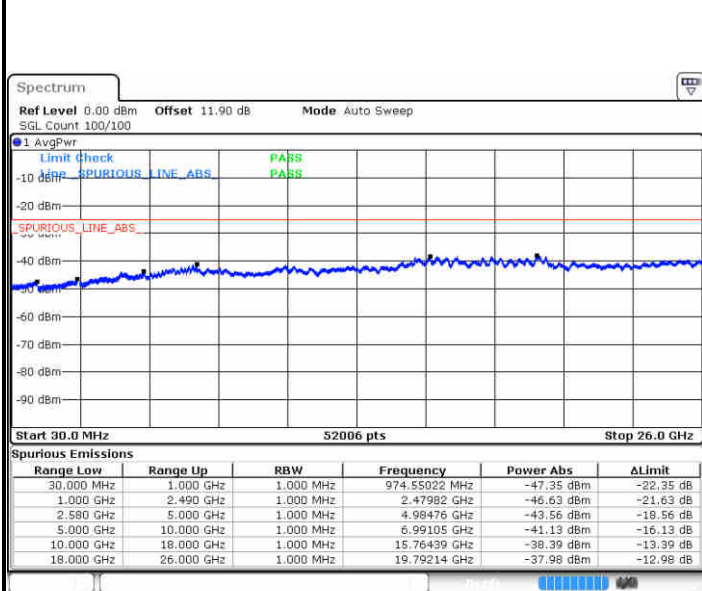
Highest Channel / 16QAM



Date: 27.SEP.2017 01:08:05

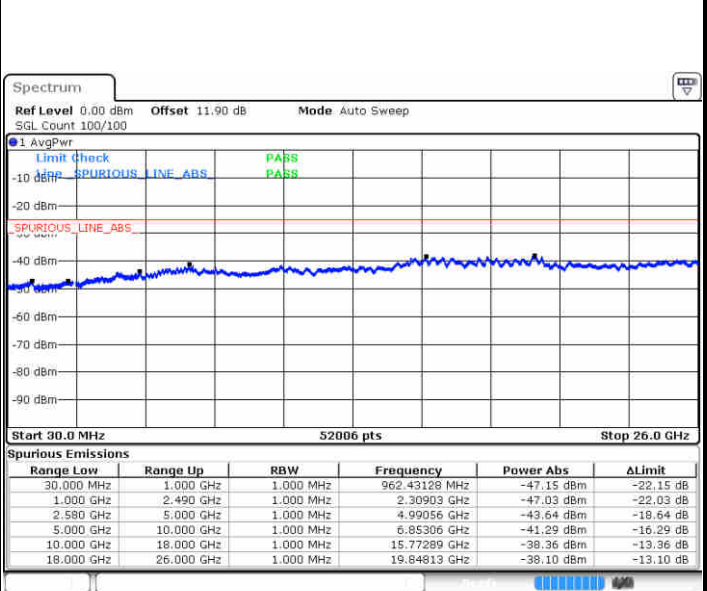
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 27.SEP.2017 01:14:15

Lowest Channel / 16QAM



Date: 27.SEP.2017 01:15:09

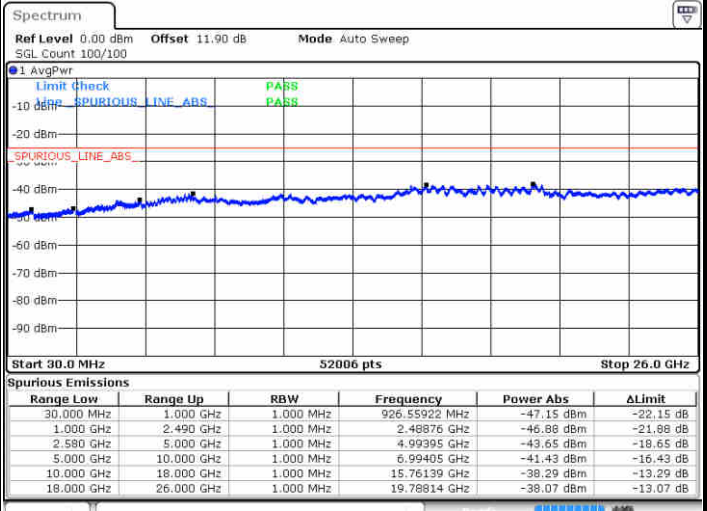
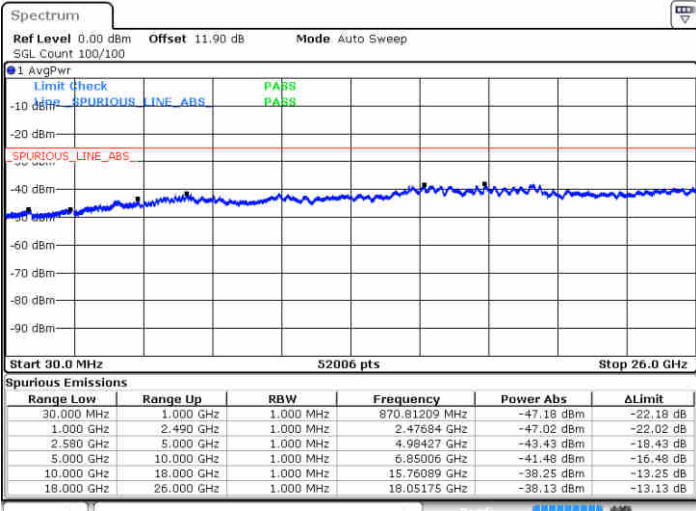




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

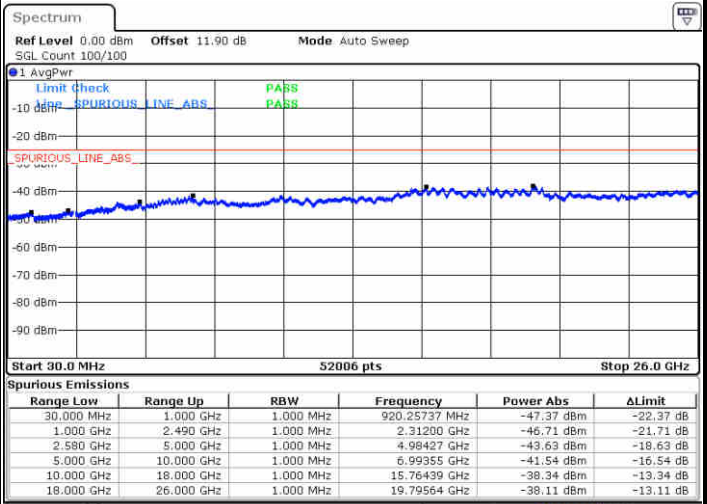
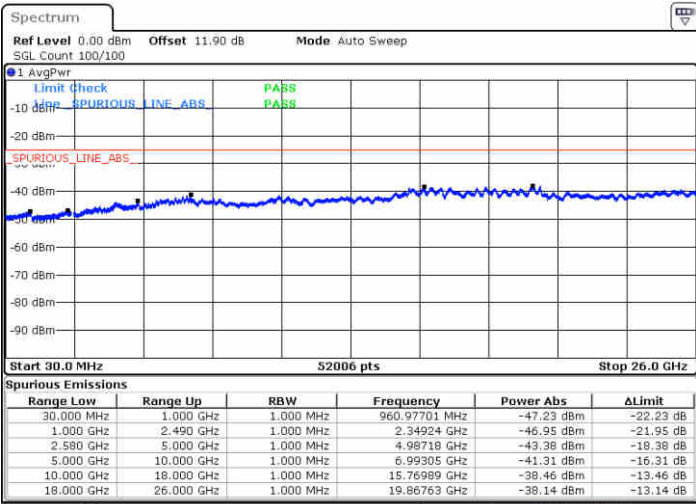


Date: 27.SEP.2017 01:16:42

Date: 27.SEP.2017 01:17:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.SEP.2017 01:23:46

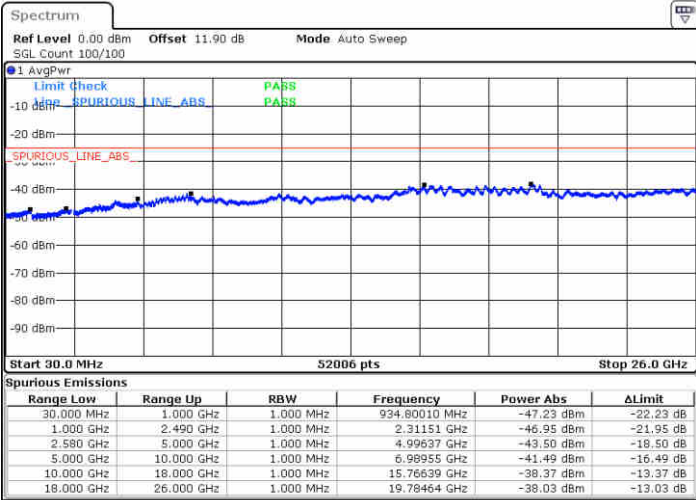
Date: 27.SEP.2017 01:24:39



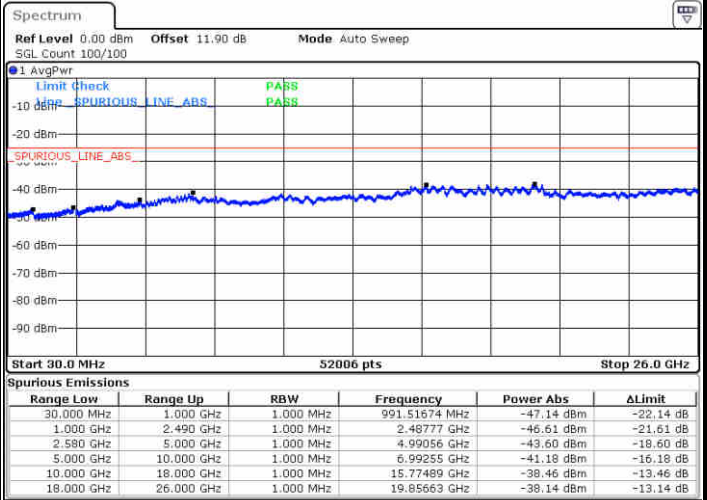
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



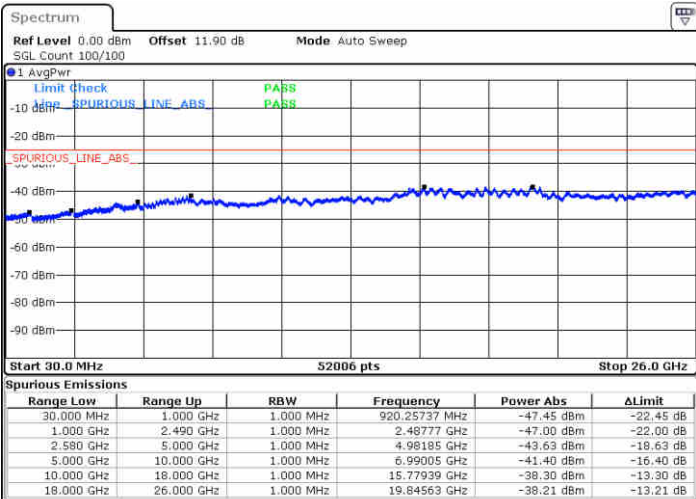
Date: 27.SEP.2017 01:30:49



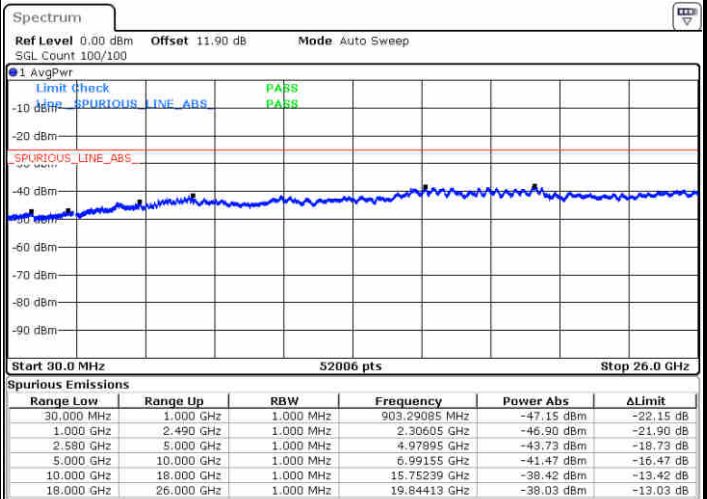
Date: 27.SEP.2017 01:31:42

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27.SEP.2017 01:33:16



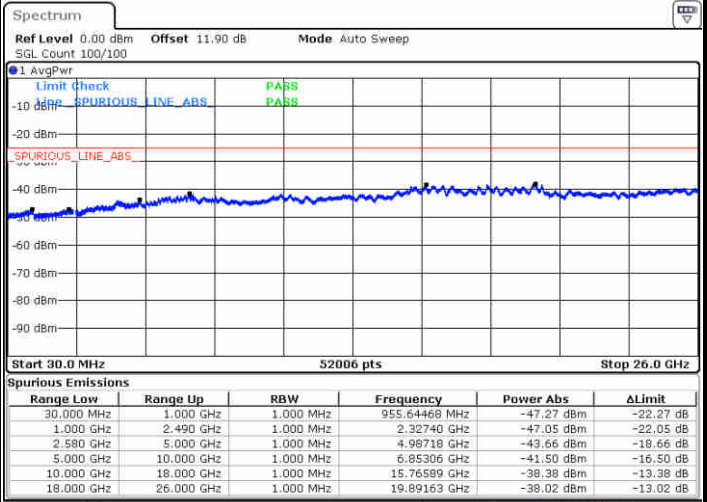
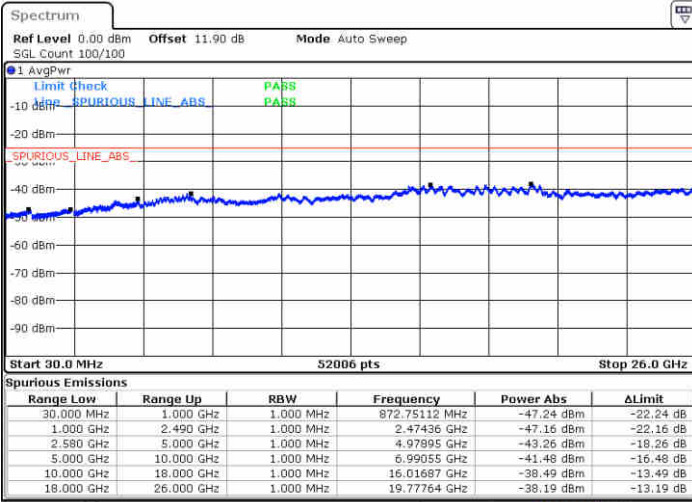
Date: 27.SEP.2017 01:34:09



LTE Band 7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



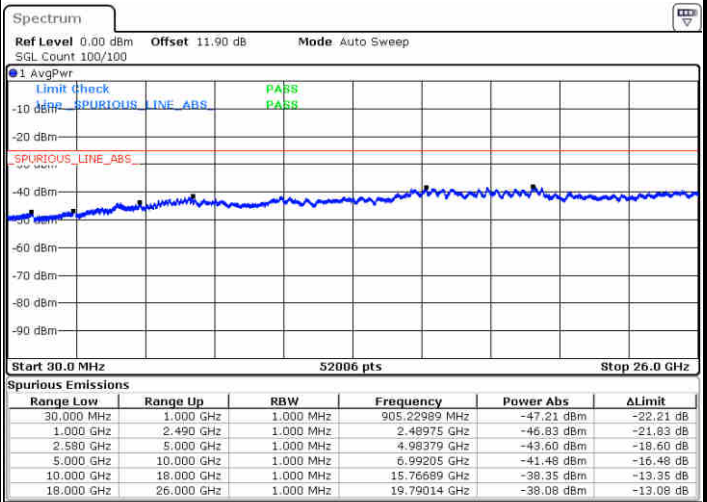
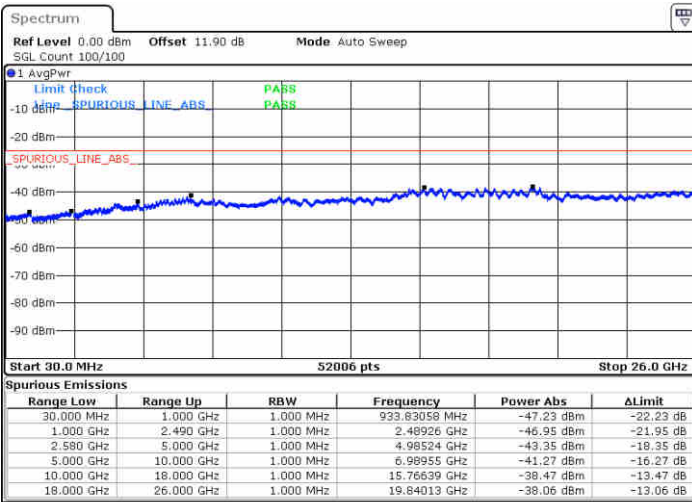
Date: 27.SEP.2017 01:40:19

Date: 27.SEP.2017 01:41:13

LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27.SEP.2017 01:47:23

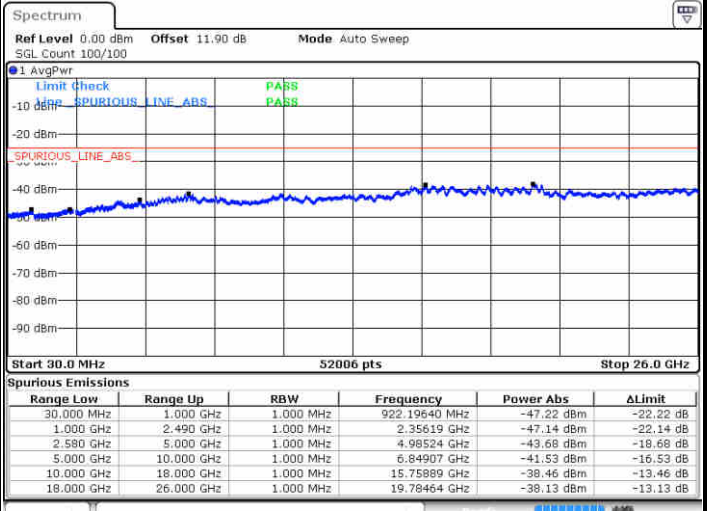
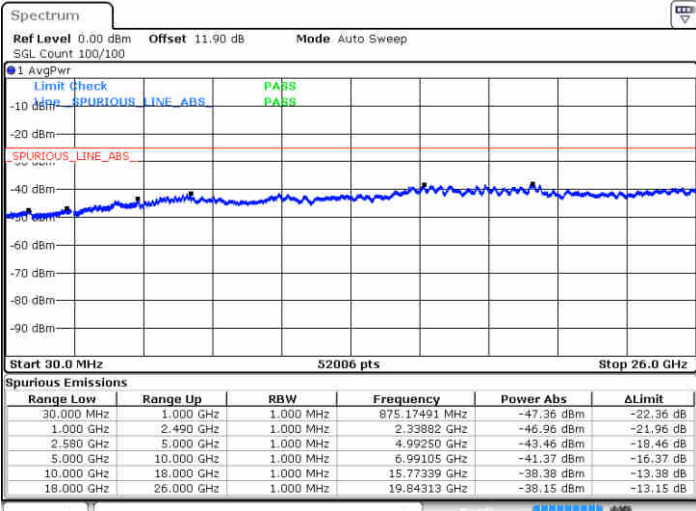
Date: 27.SEP.2017 01:48:16



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

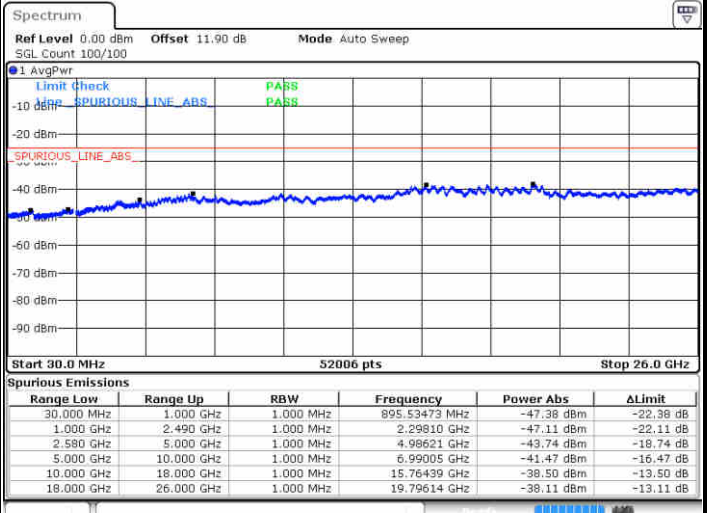
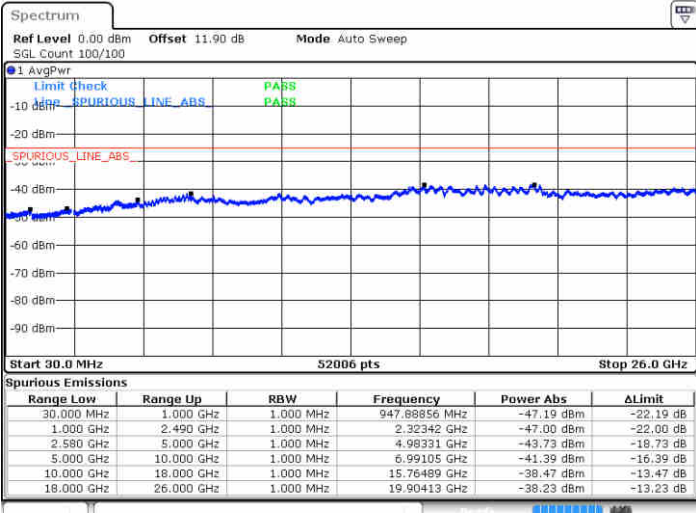


Date: 27.SEP.2017 01:49:49

Date: 27.SEP.2017 01:50:43

Highest Channel / QPSK

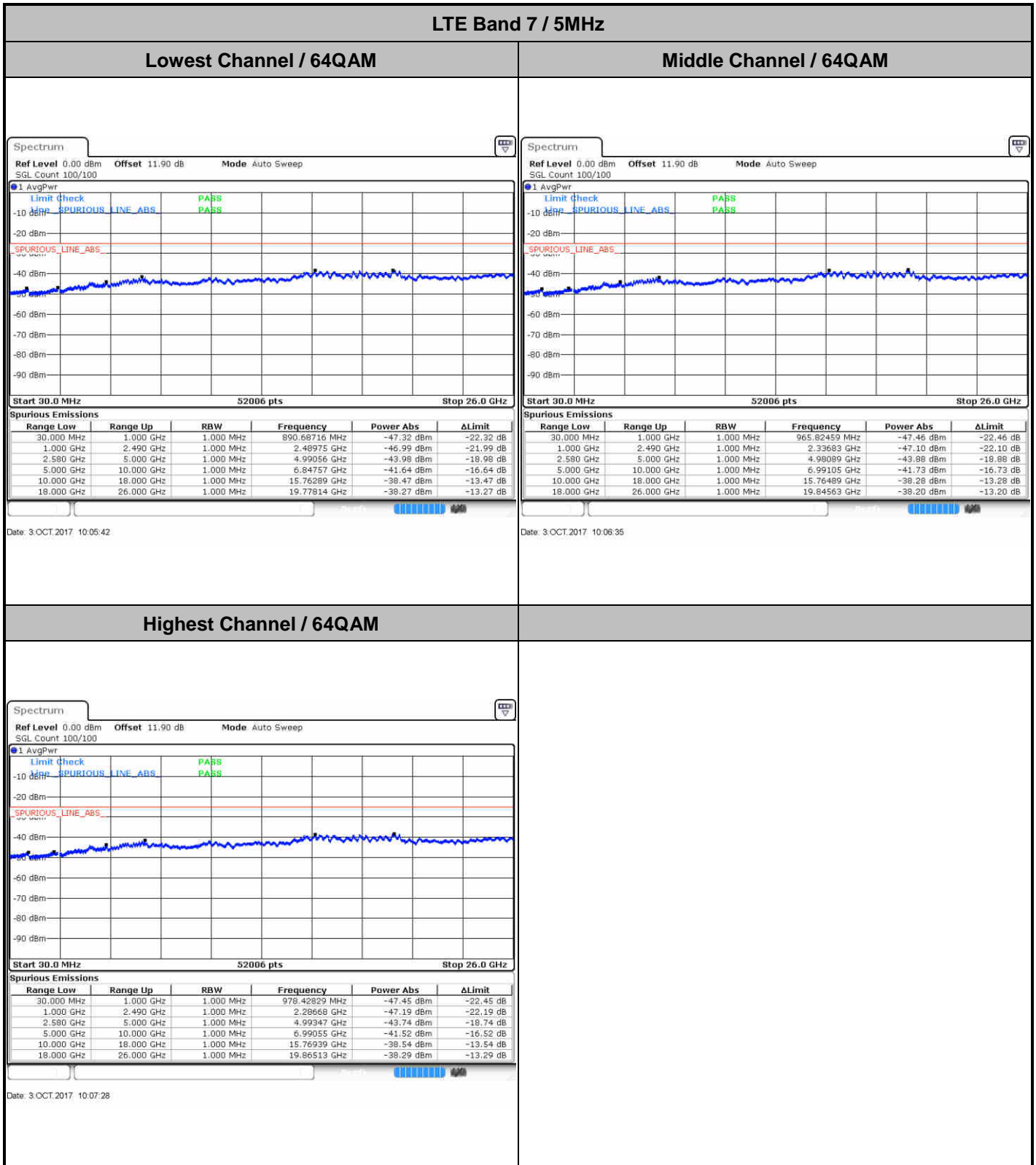
Highest Channel / 16QAM



Date: 27.SEP.2017 01:56:53

Date: 27.SEP.2017 01:57:46



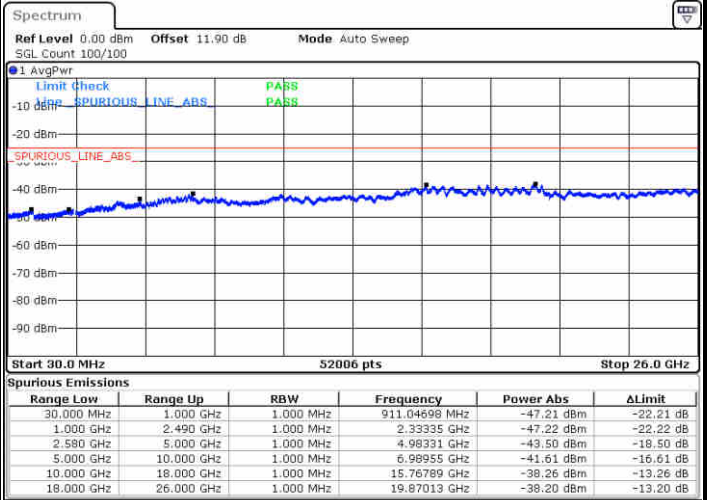
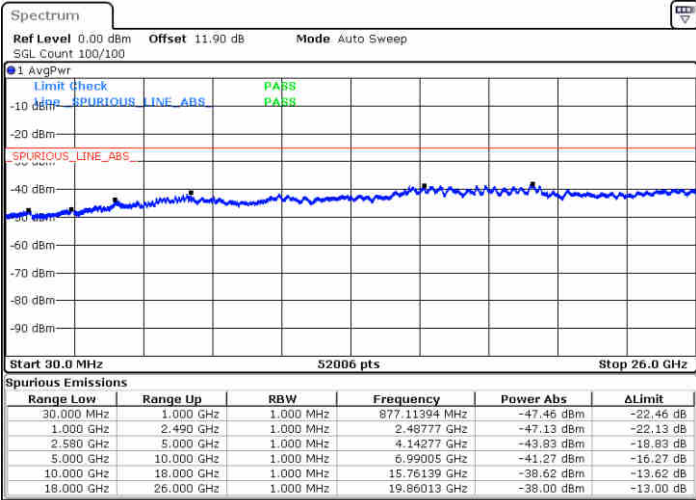




LTE Band 7 / 10MHz

Lowest Channel / 64QAM

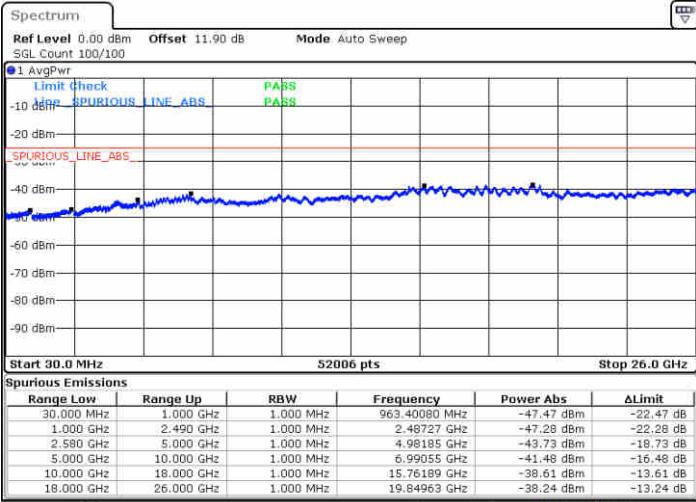
Middle Channel / 64QAM



Date: 3.OCT.2017 10:08:21

Date: 3.OCT.2017 10:08:15

Highest Channel / 64QAM



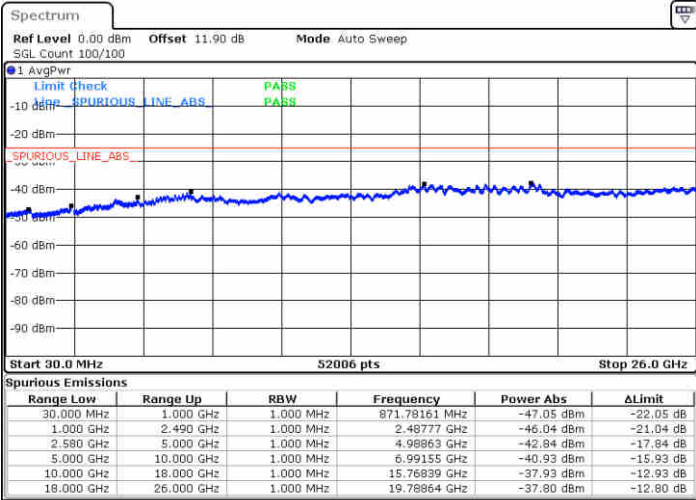
Date: 3.OCT.2017 10:10:08



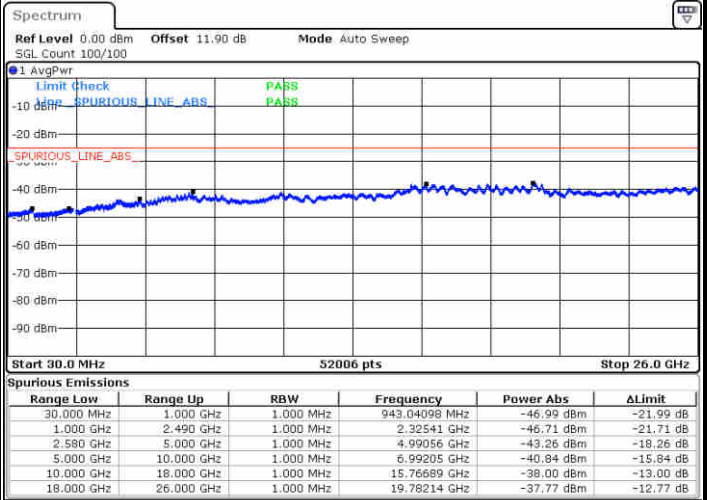
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

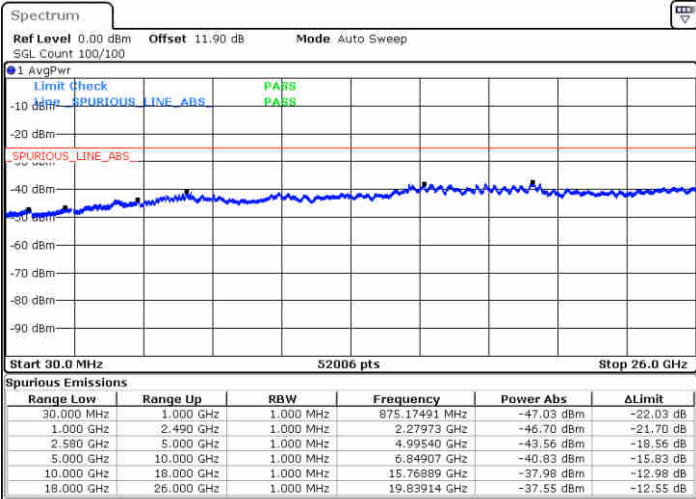


Date: 30 SEP.2017 15:21:10



Date: 30 SEP.2017 15:22:23

Highest Channel / 64QAM



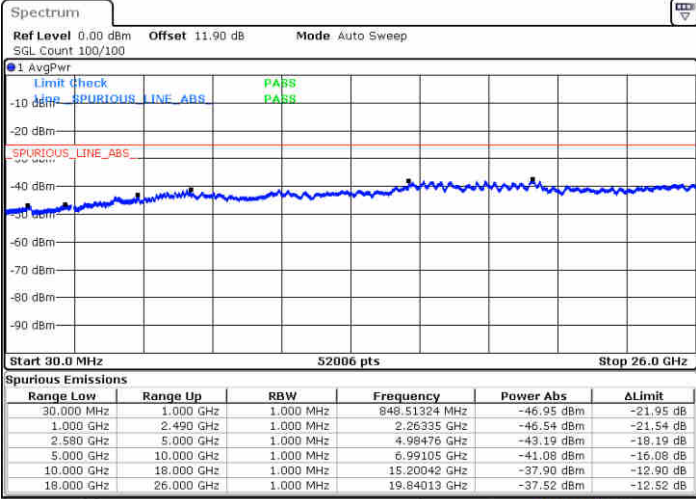
Date: 30 SEP.2017 15:25:55



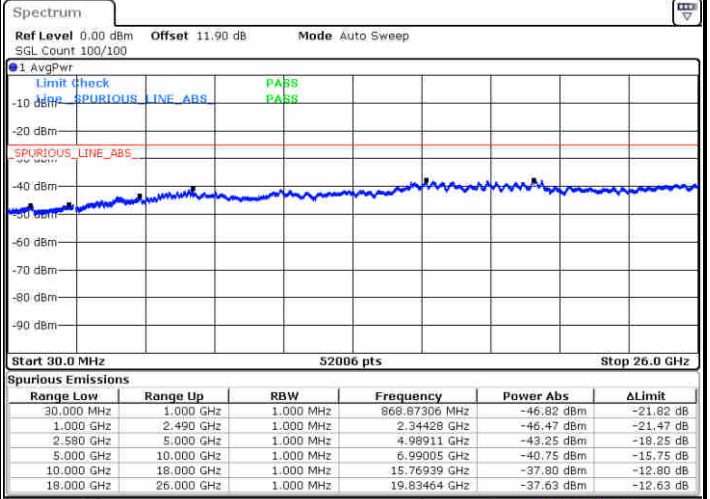
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

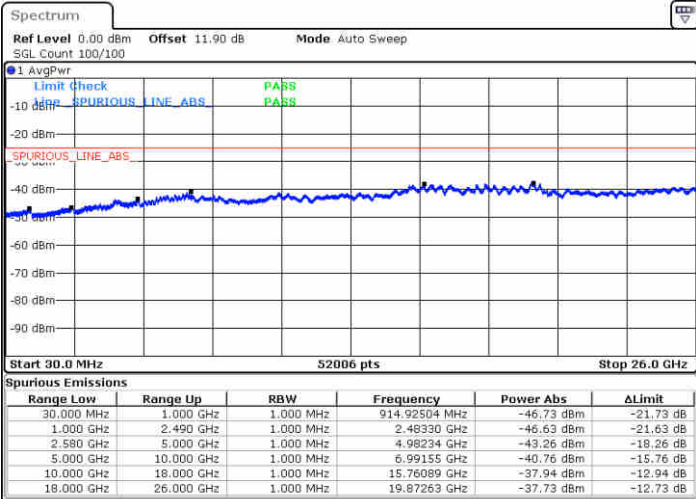


Date: 30 SEP. 2017 15:29:27



Date: 30 SEP. 2017 15:30:40

Highest Channel / 64QAM



Date: 30 SEP. 2017 15:34:11





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    | 0.0037                             | PASS    |
| 40               | Normal Voltage    | 0.0050                             |         |
| 30               | Normal Voltage    | 0.0044                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0007                             |         |
| 0                | Normal Voltage    | 0.0026                             |         |
| -10              | Normal Voltage    | 0.0064                             |         |
| -20              | Normal Voltage    | 0.0065                             |         |
| -30              | Normal Voltage    | 0.0007                             |         |
| 20               | Maximum Voltage   | 0.0014                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0008                             |         |

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel   | Limit       |
|------------------|-------------------|--------------------------------------|-------------|
| Temperature (°C) | Voltage (Volt)    | BW 5MHz                              | Within Band |
|                  |                   | Frequency Offset ( $\Delta f$ ) (Hz) | Result      |
| 50               | Normal Voltage    | 9.3                                  | PASS        |
| 40               | Normal Voltage    | 12.7                                 |             |
| 30               | Normal Voltage    | 11.1                                 |             |
| 20(Ref.)         | Normal Voltage    | 0                                    |             |
| 10               | Normal Voltage    | -1.9                                 |             |
| 0                | Normal Voltage    | -6.5                                 |             |
| -10              | Normal Voltage    | 16.2                                 |             |
| -20              | Normal Voltage    | 16.5                                 |             |
| -30              | Normal Voltage    | -1.7                                 |             |
| 20               | Maximum Voltage   | -3.5                                 |             |
| 20               | Normal Voltage    | 0                                    |             |
| 20               | Battery End Point | 2.1                                  |             |

$|\text{MAX}(\Delta f)| = 16.5\text{Hz}$

| Frequency Stability            | Frequency (MHz) | Limit Line              | Result |
|--------------------------------|-----------------|-------------------------|--------|
| $f_L -  \text{MAX}(\Delta f) $ | 2500.169984     | $\geq 2500 \text{ MHz}$ | PASS   |
| $f_H +  \text{MAX}(\Delta f) $ | 2569.836017     | $\leq 2570 \text{ MHz}$ |        |



# LTE Band 7\_CA

## 26dB Bandwidth

| Mode       | LTE Band 7 : 26dB BW(MHz) |             |             |
|------------|---------------------------|-------------|-------------|
| QPSK       |                           |             |             |
| BW         | 10MHz+20MHz               | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.78                     | 30.48       | 34.75       |
| Middle CH  | 30.04                     | 30.48       | 34.95       |
| Highest CH | 29.78                     | 30.65       | 34.65       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 30.13                     | 34.85       | 39.71       |
| Middle CH  | 30.13                     | 34.95       | 39.83       |
| Highest CH | 29.96                     | 34.95       | 39.59       |

| Mode       | LTE Band 7 : 26dB BW(MHz) |             |             |
|------------|---------------------------|-------------|-------------|
| 16QAM      |                           |             |             |
| BW         | 10MHz+20MHz               | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.87                     | 30.39       | 34.85       |
| Middle CH  | 29.96                     | 30.39       | 34.75       |
| Highest CH | 29.7                      | 30.39       | 34.95       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 29.87                     | 34.95       | 39.71       |
| Middle CH  | 30.04                     | 34.95       | 39.83       |
| Highest CH | 30.04                     | 34.95       | 39.71       |

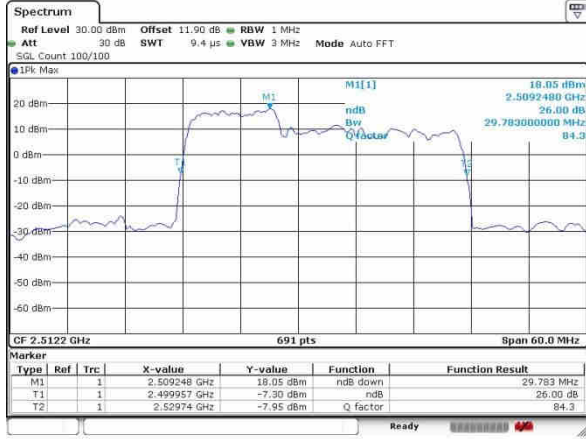
| Mode       | LTE Band 7 : 26dB BW(MHz) |             |             |
|------------|---------------------------|-------------|-------------|
| 64QAM      |                           |             |             |
| BW         | 10MHz+20MHz               | 15MHz+15MHz | 15MHz+20MHz |
| Lowest CH  | 29.7                      | 30.48       | 34.85       |
| Middle CH  | 29.87                     | 30.65       | 34.75       |
| Highest CH | 29.78                     | 30.48       | 34.75       |
| BW         | 20MHz+10MHz               | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 29.96                     | 34.75       | 39.94       |
| Middle CH  | 30.04                     | 34.85       | 39.83       |
| Highest CH | 29.87                     | 34.75       | 39.71       |



LTE Band 7

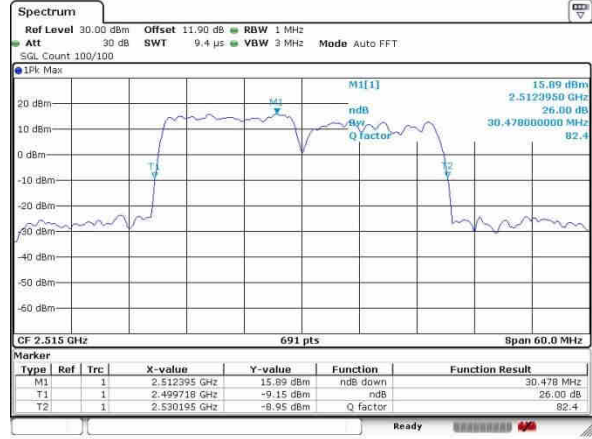
QPSK

Lowest Channel / 10MHz+20MHz



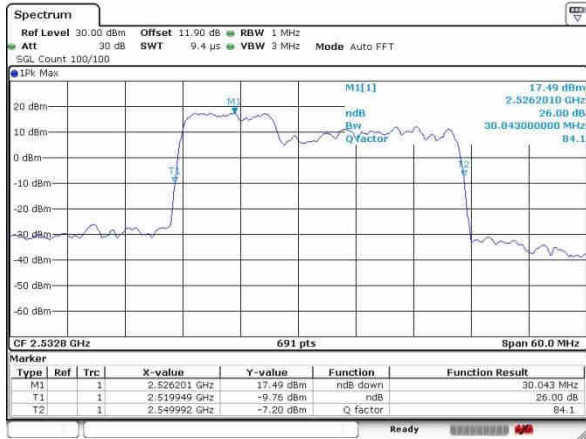
Date: 27 SEP 2017 11:06:06

Lowest Channel / 15MHz+15MHz



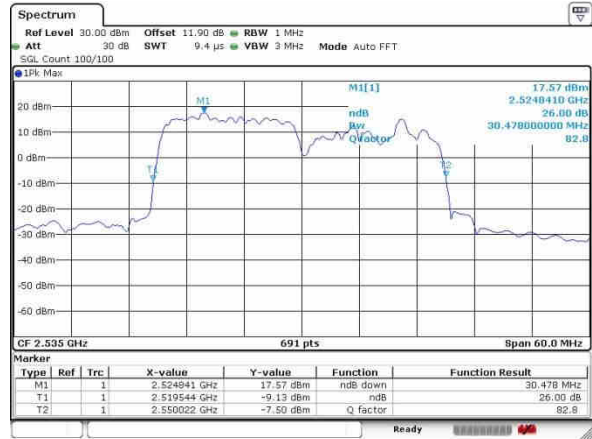
Date: 27 SEP 2017 15:19:55

Middle Channel / 10MHz+20MHz



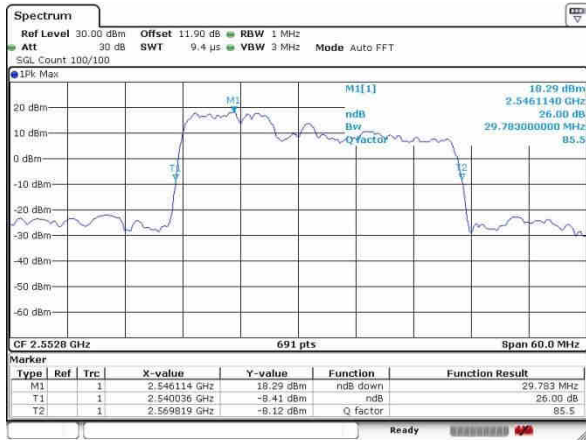
Date: 27 SEP 2017 13:43:43

Middle Channel / 15MHz+15MHz



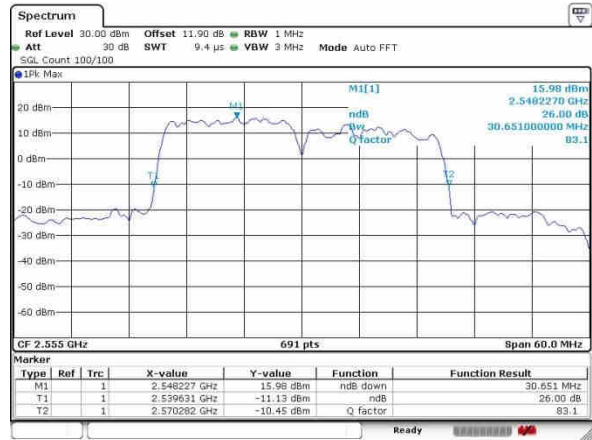
Date: 27 SEP 2017 16:01:38

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:47:47

Highest Channel / 15MHz+15MHz



Date: 27 SEP 2017 16:05:25

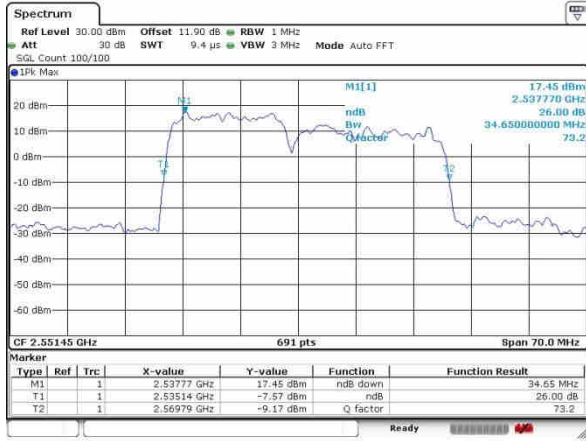




LTE Band 7

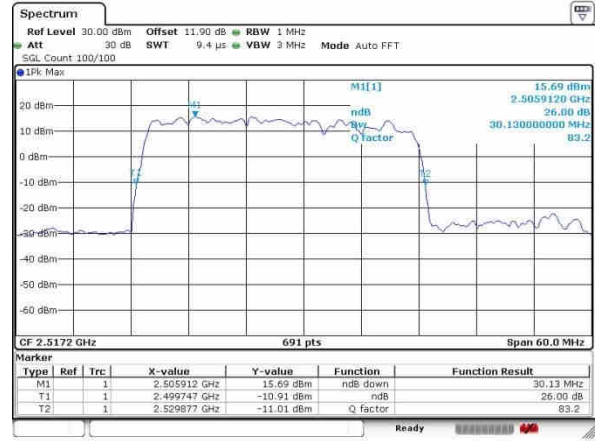
QPSK

Lowest Channel / 15MHz+20MHz



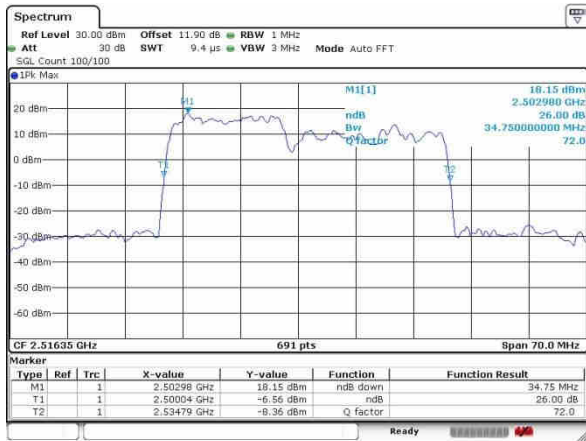
Date: 30 SEP 2017 12:11:03

Lowest Channel / 20MHz+10MHz



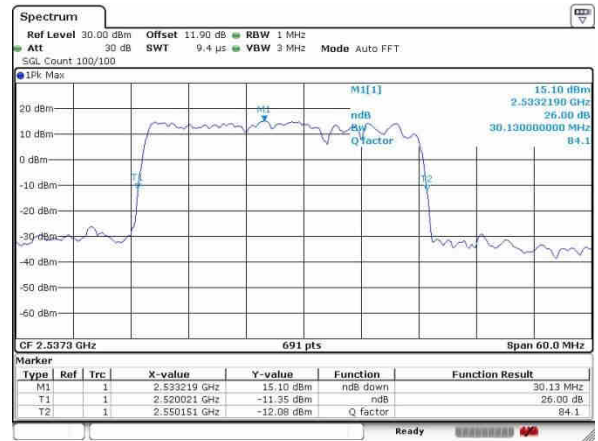
Date: 27 SEP 2017 13:59:59

Middle Channel / 15MHz+20MHz



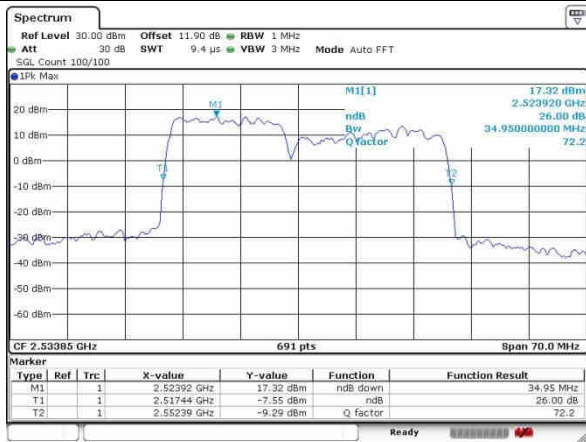
Date: 30 SEP 2017 12:07:03

Middle Channel / 20MHz+10MHz



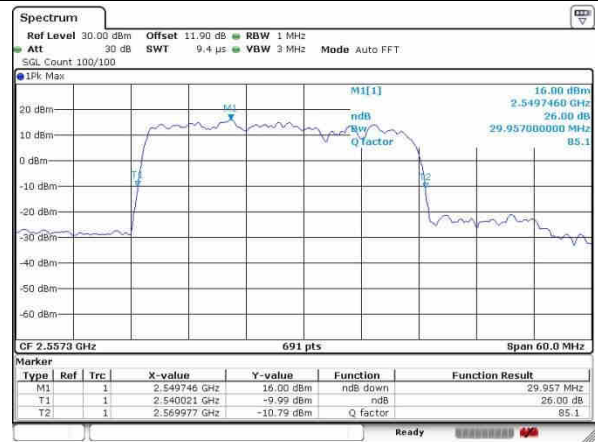
Date: 27 SEP 2017 15:01:51

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:28:16

Highest Channel / 20MHz+10MHz



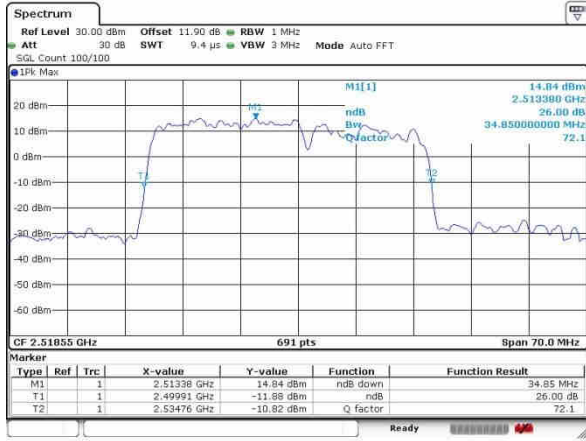
Date: 27 SEP 2017 15:08:26



LTE Band 7

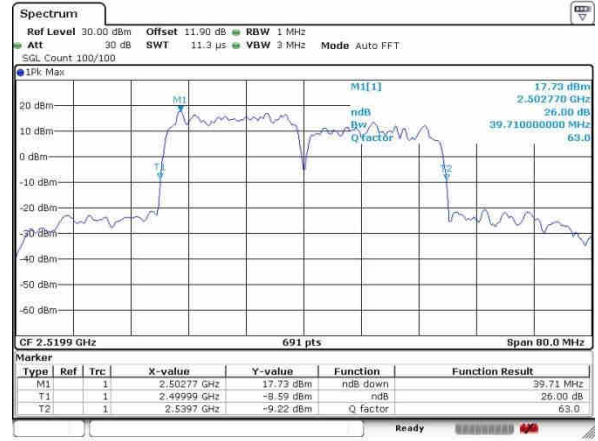
QPSK

Lowest Channel / 20MHz+15MHz



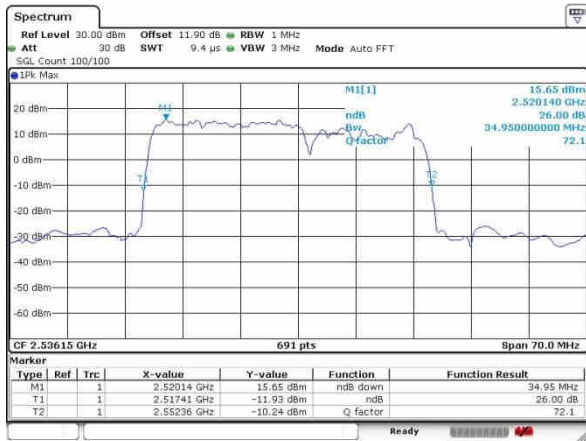
Date: 27 SEP 2017 17:28:58

Lowest Channel / 20MHz+20MHz



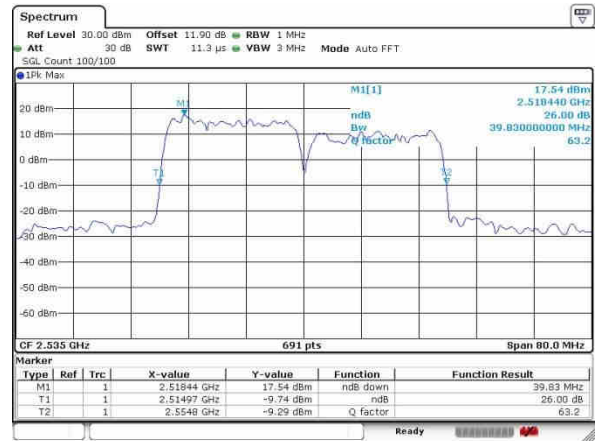
Date: 30 SEP 2017 11:13:38

Middle Channel / 20MHz+15MHz



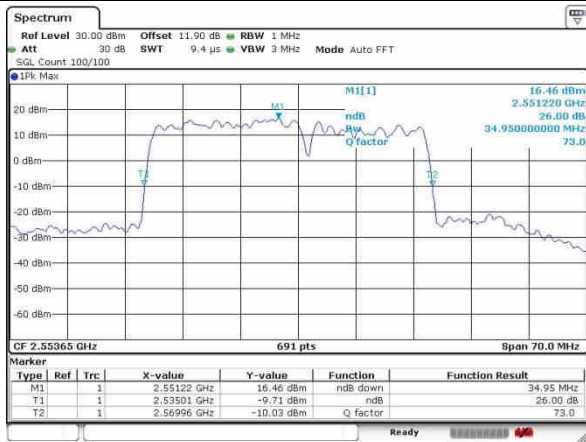
Date: 30 SEP 2017 12:26:07

Middle Channel / 20MHz+20MHz



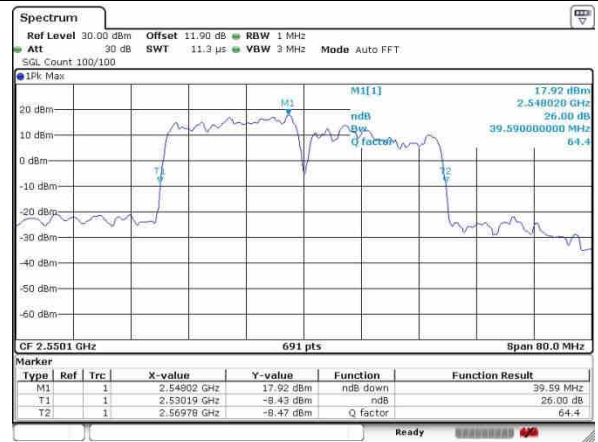
Date: 30 SEP 2017 11:17:13

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 12:18:11

Highest Channel / 20MHz+20MHz



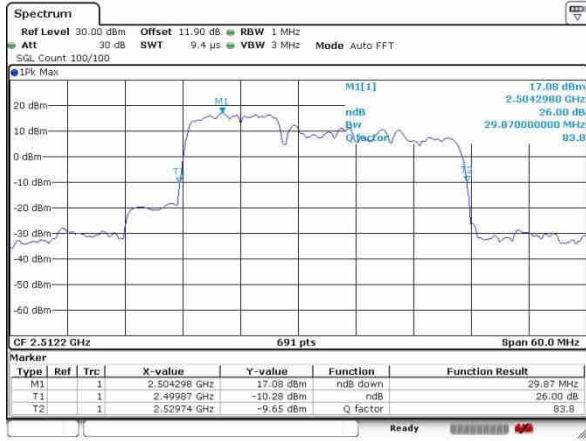
Date: 30 SEP 2017 11:20:33



LTE Band 7

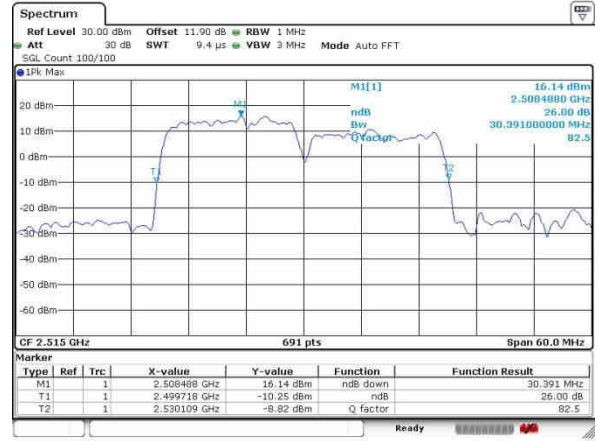
16QAM

Lowest Channel / 10MHz+20MHz



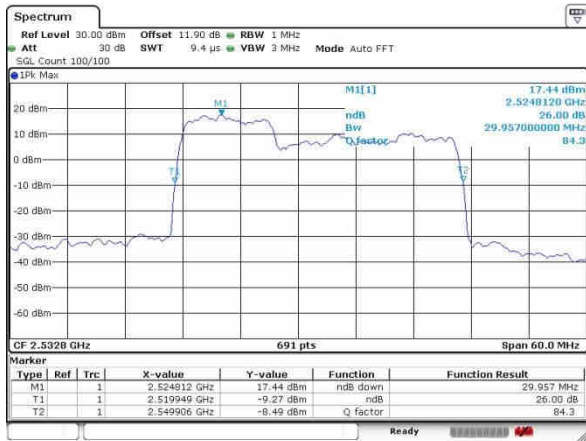
Date: 27 SEP 2017 11:05:56

Lowest Channel / 15MHz+15MHz



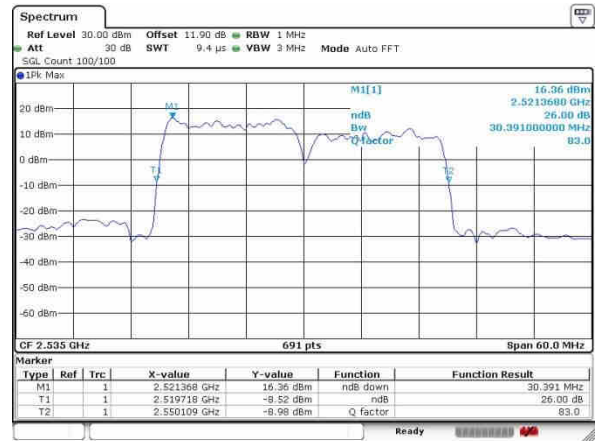
Date: 27 SEP 2017 15:19:44

Middle Channel / 10MHz+20MHz



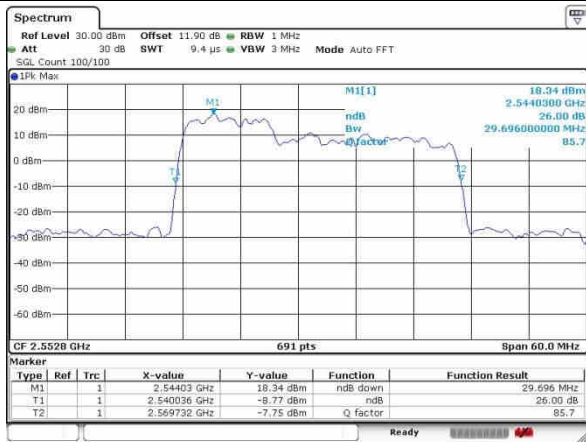
Date: 27 SEP 2017 13:43:29

Middle Channel / 15MHz+15MHz



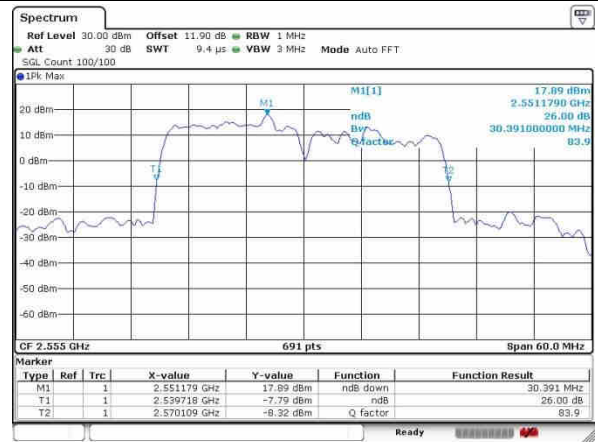
Date: 27 SEP 2017 16:01:27

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:47:59

Highest Channel / 15MHz+15MHz



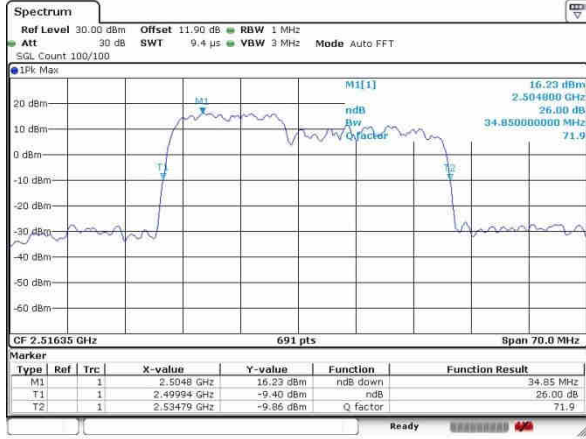
Date: 27 SEP 2017 16:05:35



LTE Band 7

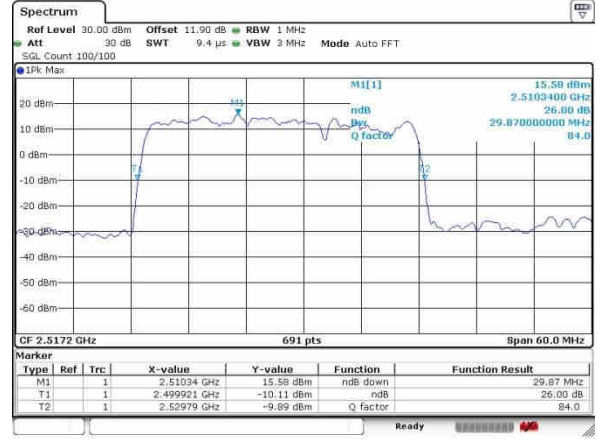
16QAM

Lowest Channel / 15MHz+20MHz



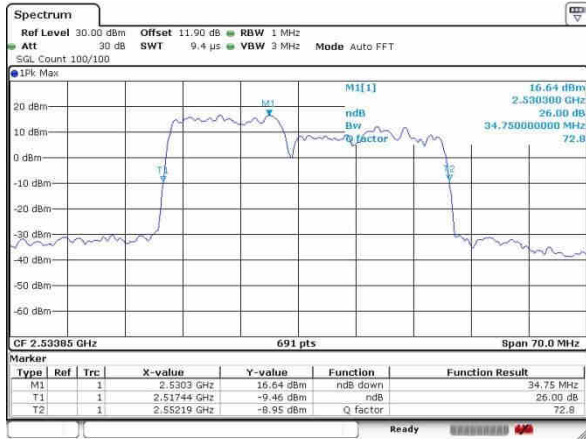
Date: 30 SEP 2017 12:06:55

Lowest Channel / 20MHz+10MHz



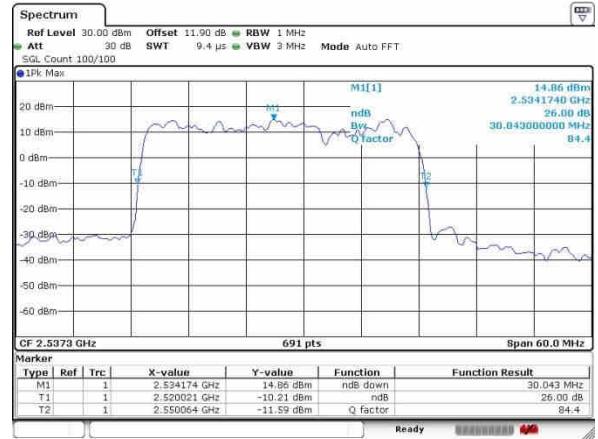
Date: 27 SEP 2017 13:59:47

Middle Channel / 15MHz+20MHz



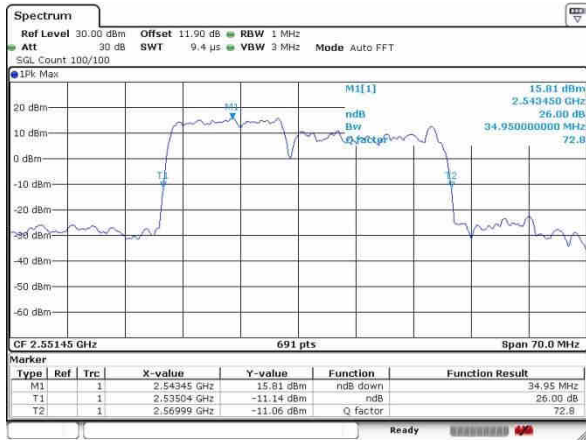
Date: 30 SEP 2017 12:08:11

Middle Channel / 20MHz+10MHz



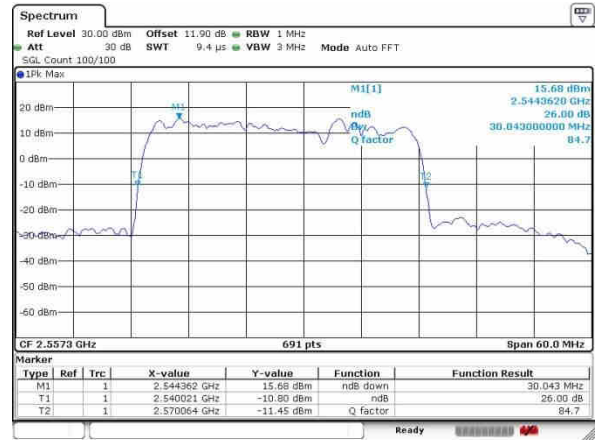
Date: 27 SEP 2017 15:01:34

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:10:50

Highest Channel / 20MHz+10MHz



Date: 27 SEP 2017 15:08:38

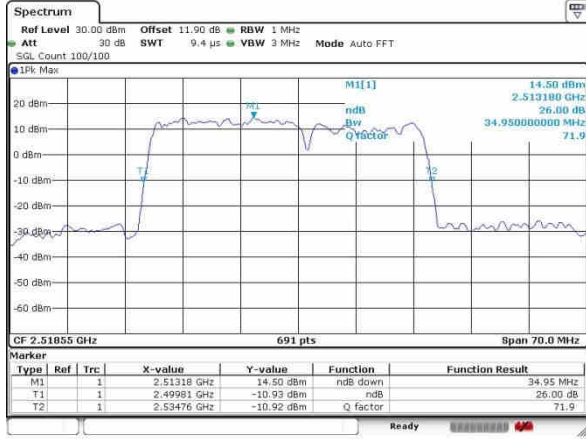




LTE Band 7

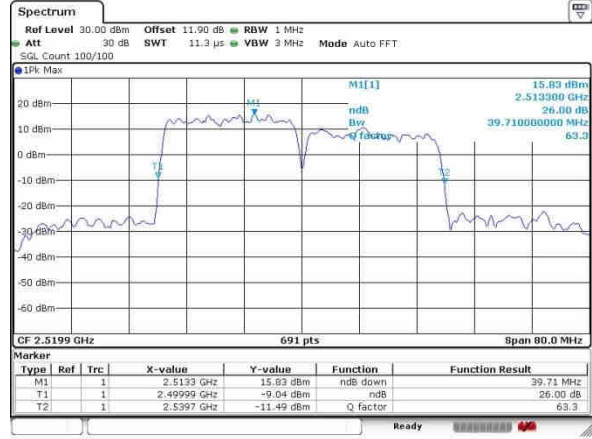
16QAM

Lowest Channel / 20MHz+15MHz



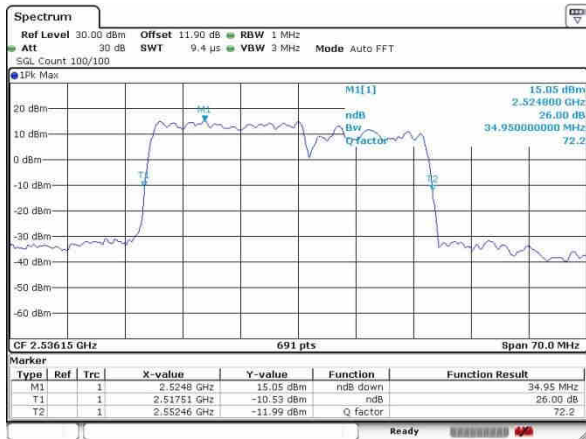
Date: 27 SEP 2017 17:28:46

Lowest Channel / 20MHz+20MHz



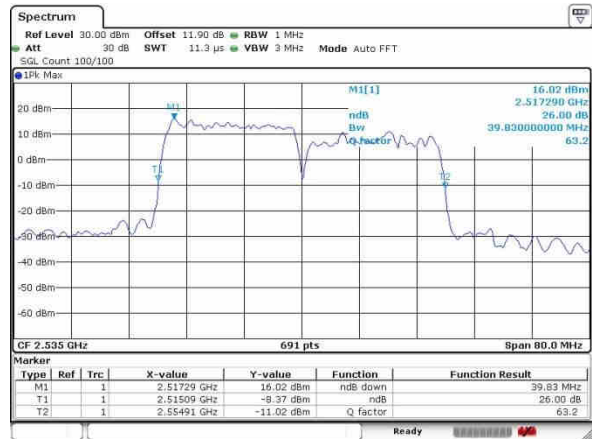
Date: 30 SEP 2017 11:13:29

Middle Channel / 20MHz+15MHz



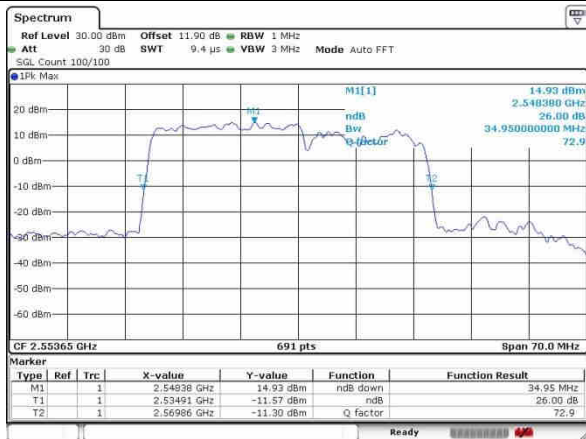
Date: 30 SEP 2017 12:15:42

Middle Channel / 20MHz+20MHz



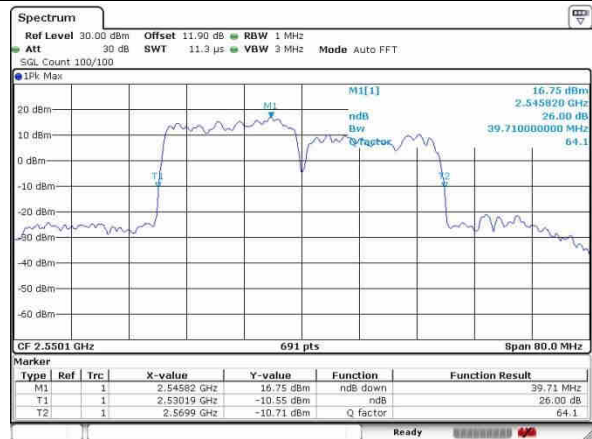
Date: 30 SEP 2017 11:17:23

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 12:18:02

Highest Channel / 20MHz+20MHz



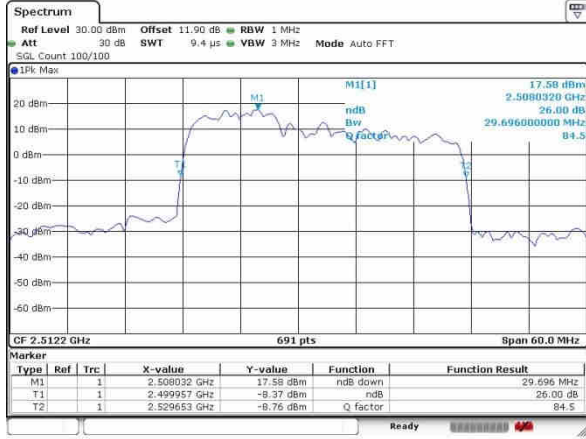
Date: 30 SEP 2017 11:20:24



LTE Band 7

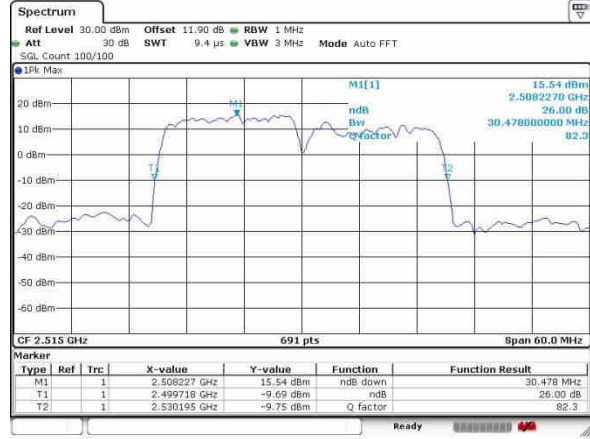
64QAM

Lowest Channel / 10MHz+20MHz



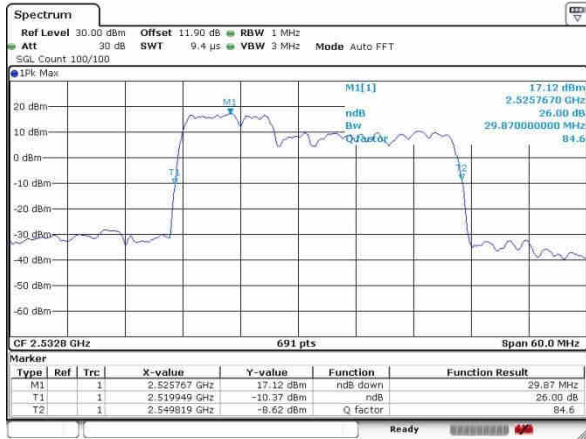
Date: 27 SEP 2017 11:05:46

Lowest Channel / 15MHz+15MHz



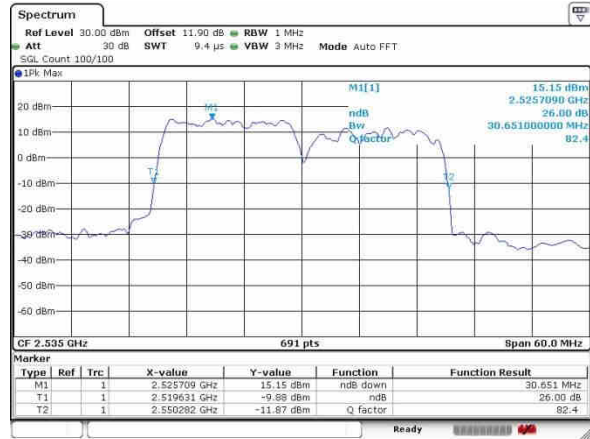
Date: 27 SEP 2017 15:19:34

Middle Channel / 10MHz+20MHz



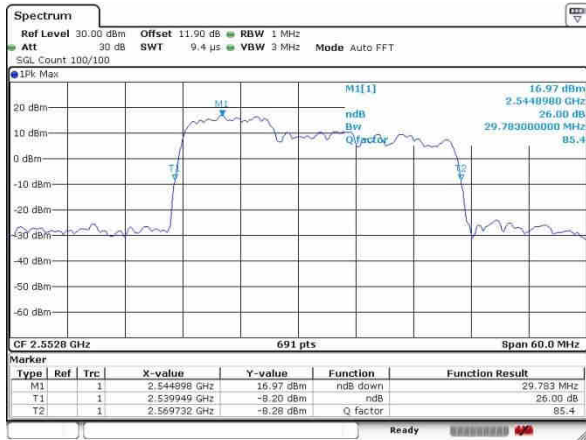
Date: 27 SEP 2017 13:43:18

Middle Channel / 15MHz+15MHz



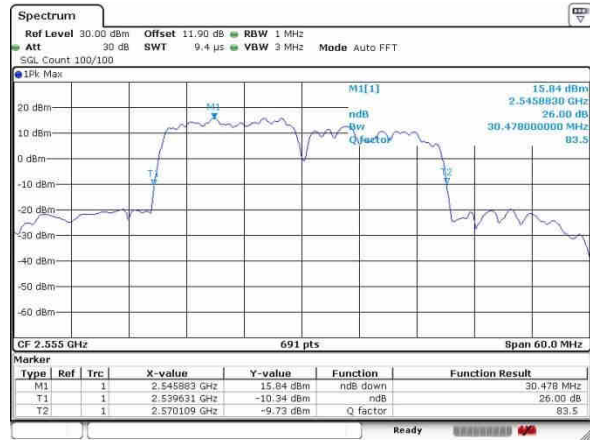
Date: 27 SEP 2017 16:01:17

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:48:08

Highest Channel / 15MHz+15MHz



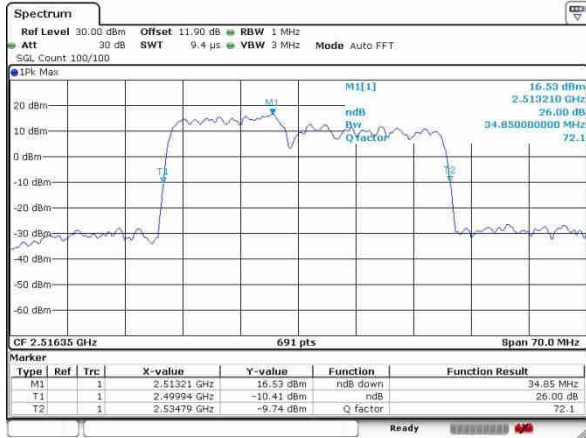
Date: 27 SEP 2017 16:05:44



LTE Band 7

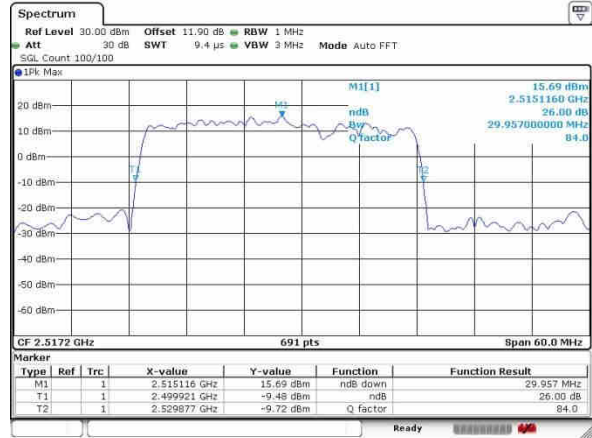
64QAM

Lowest Channel / 15MHz+20MHz



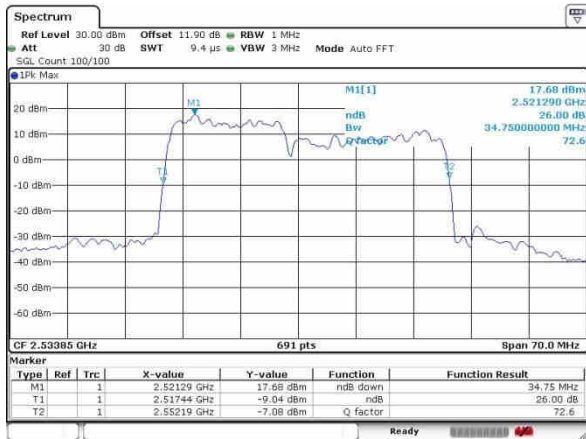
Date: 30 SEP 2017 12:06:43

Lowest Channel / 20MHz+10MHz



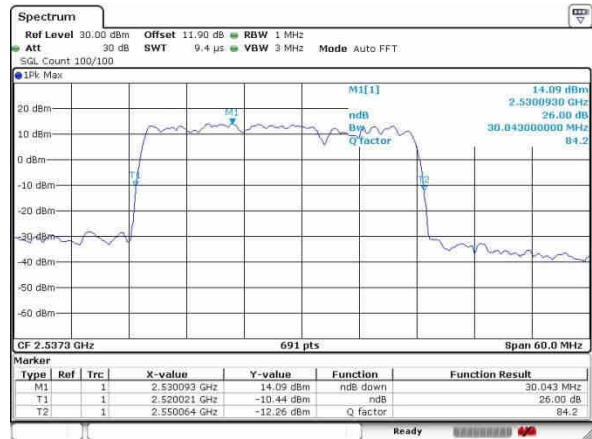
Date: 27 SEP 2017 13:59:37

Middle Channel / 15MHz+20MHz



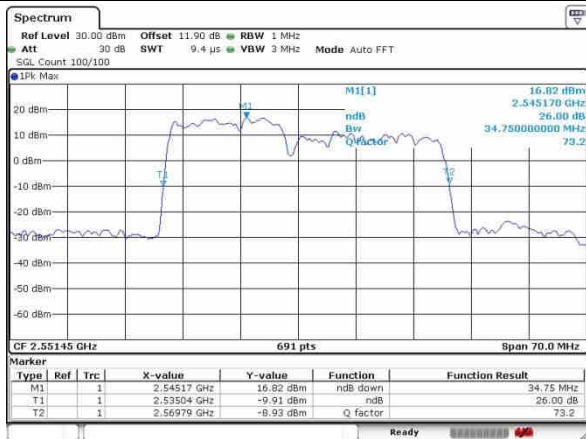
Date: 30 SEP 2017 12:08:20

Middle Channel / 20MHz+10MHz



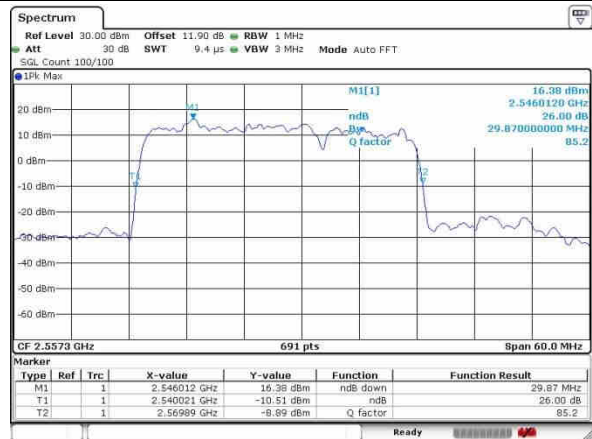
Date: 27 SEP 2017 15:01:23

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:10:41

Highest Channel / 20MHz+10MHz



Date: 27 SEP 2017 15:08:52