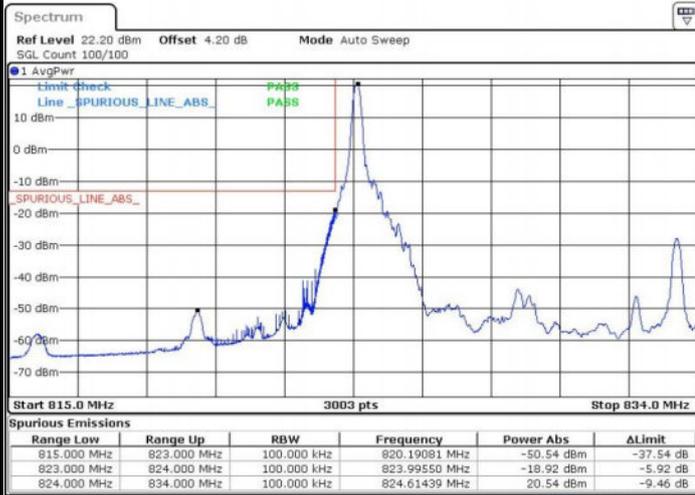




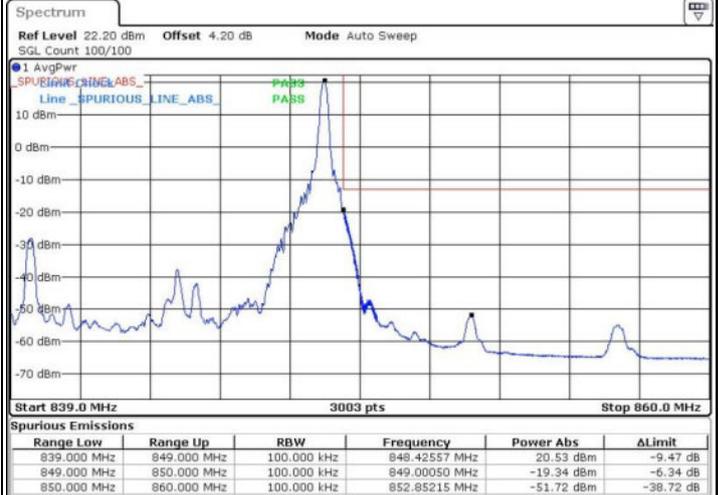
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



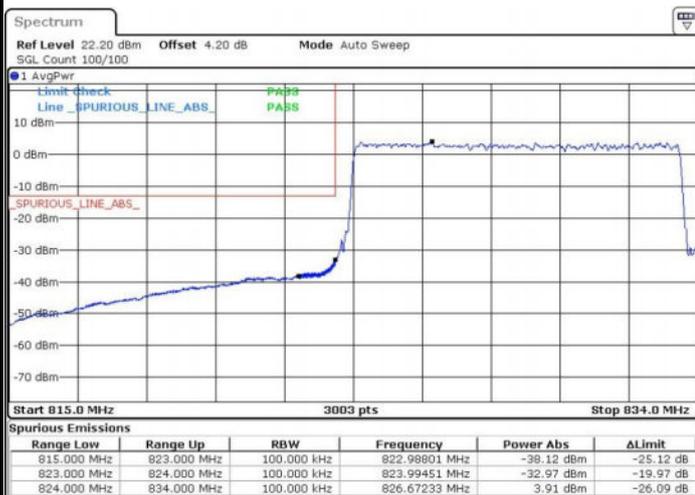
Date: 7 JUN 2016 05:10:40

Highest Band Edge / 1 RB



Date: 7 JUN 2016 05:28:16

Lowest Band Edge / Full RB



Date: 7 JUN 2016 05:16:56

Highest Band Edge / Full RB

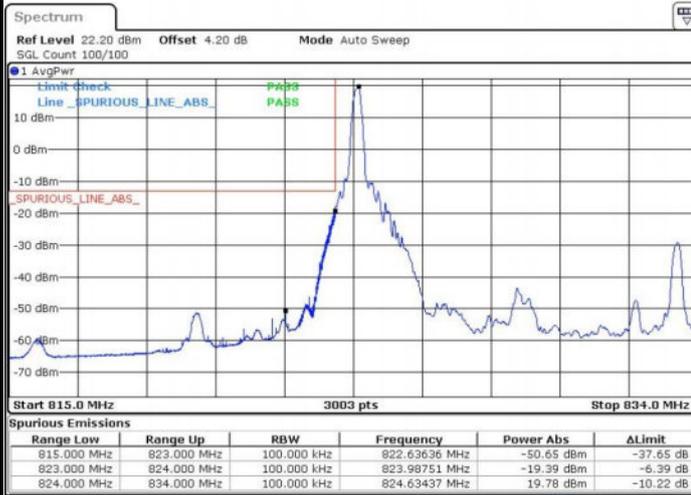


Date: 7 JUN 2016 05:34:32



LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 7 JUN 2016 05:13:48

Highest Band Edge / 1 RB



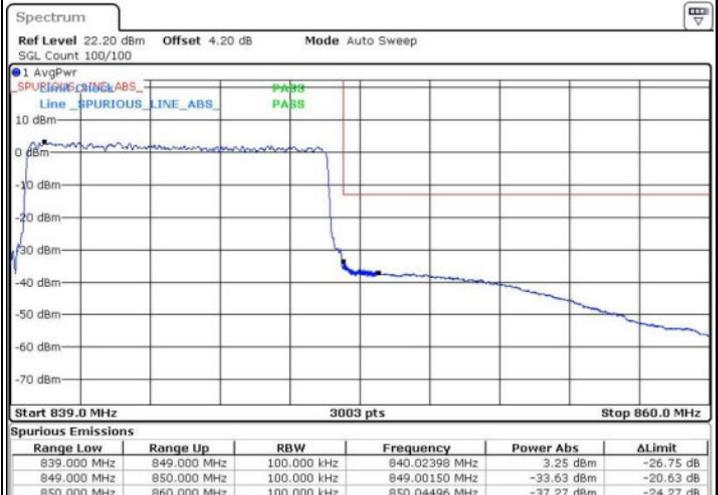
Date: 7 JUN 2016 05:31:24

Lowest Band Edge / Full RB



Date: 7 JUN 2016 05:20:04

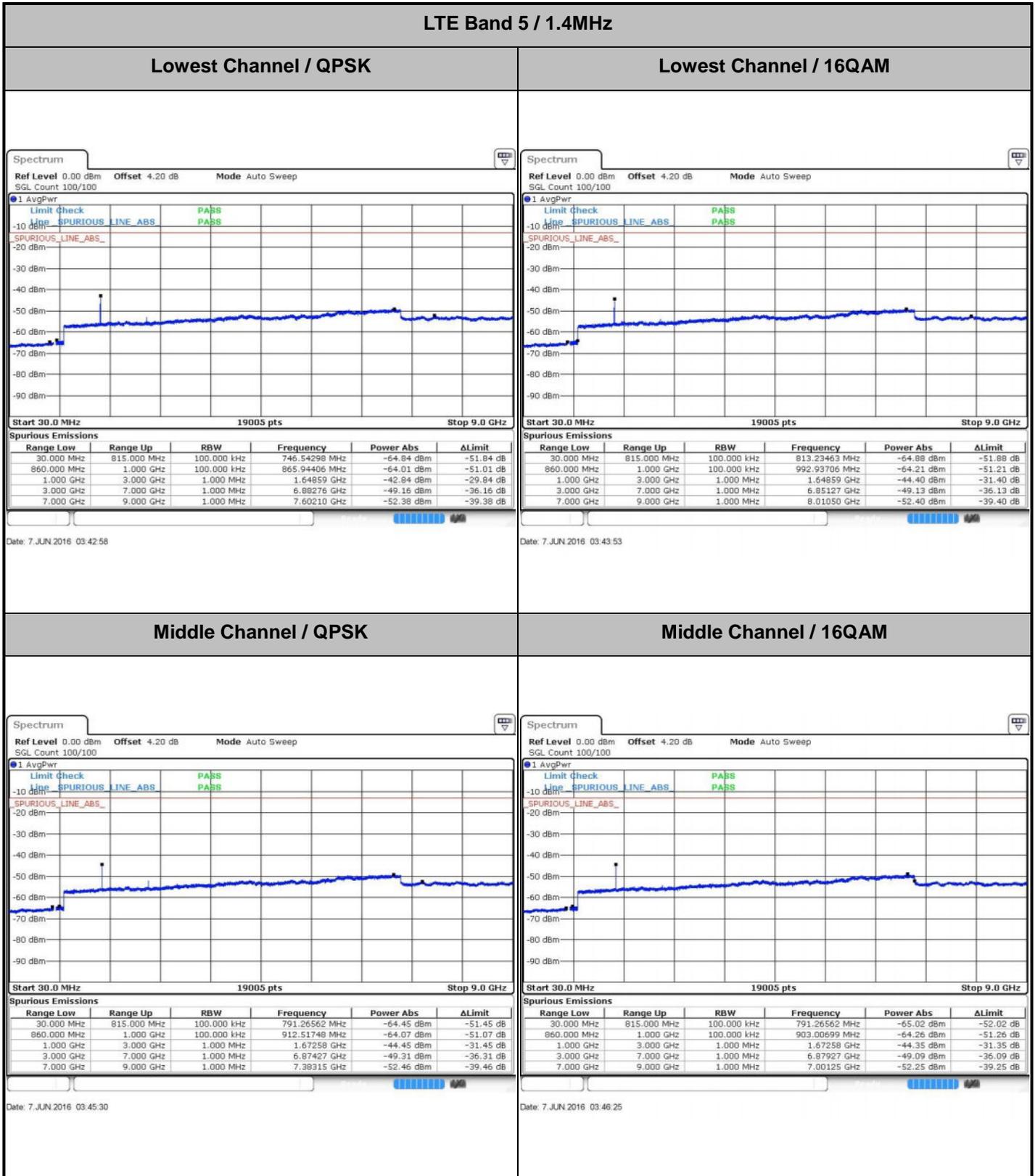
Highest Band Edge / Full RB



Date: 7 JUN 2016 05:37:40



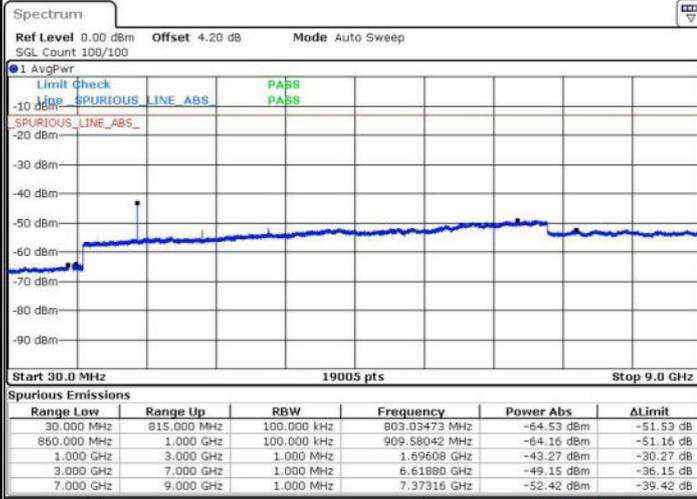
# Conducted Spurious Emission





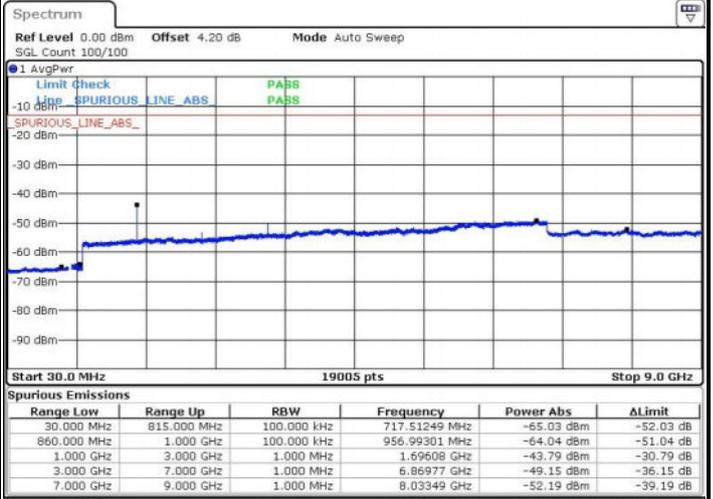
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 7 JUN 2016 04:00:34

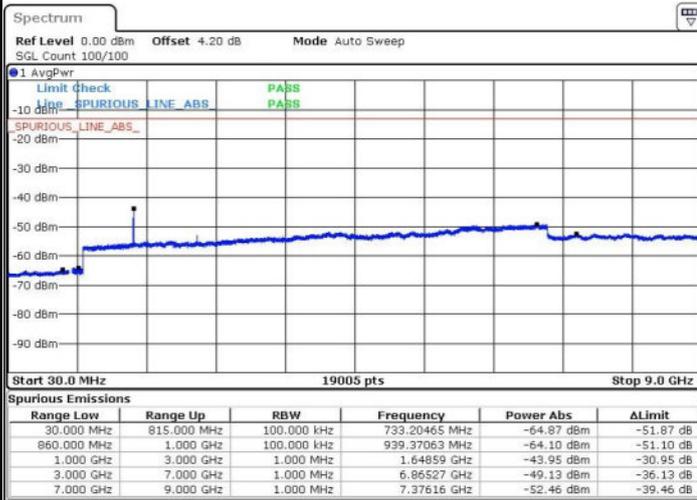
Highest Channel / 16QAM



Date: 7 JUN 2016 04:01:29

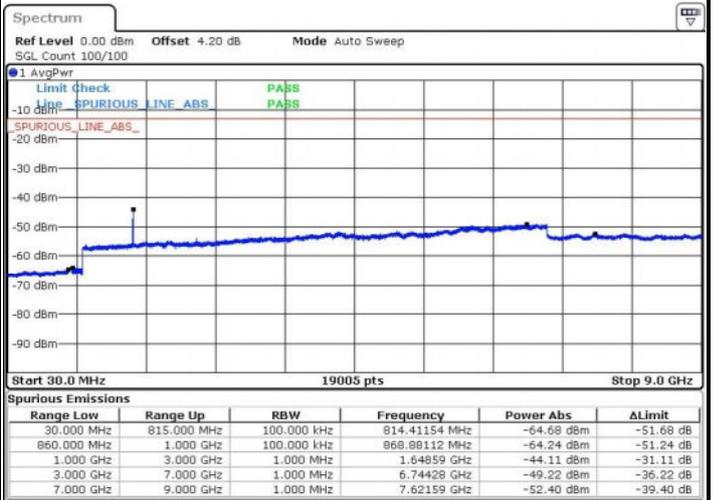
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 7 JUN 2016 04:15:38

Lowest Channel / 16QAM



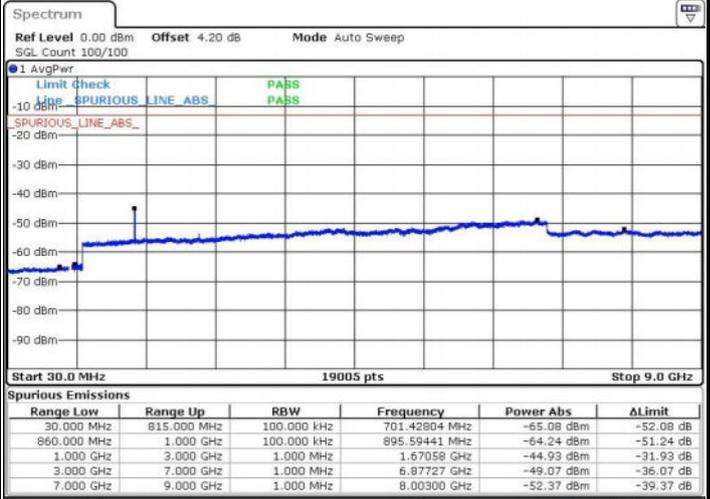
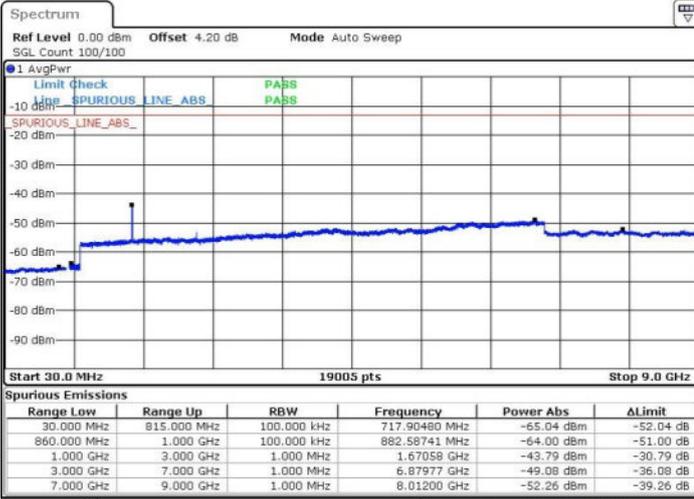
Date: 7 JUN 2016 04:16:33



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

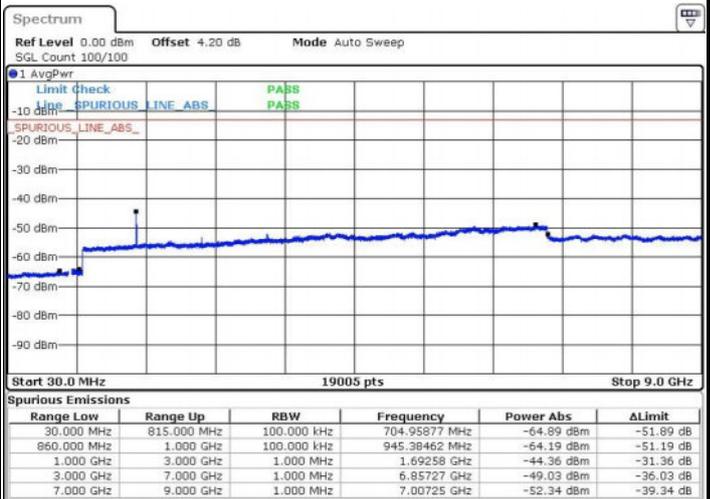
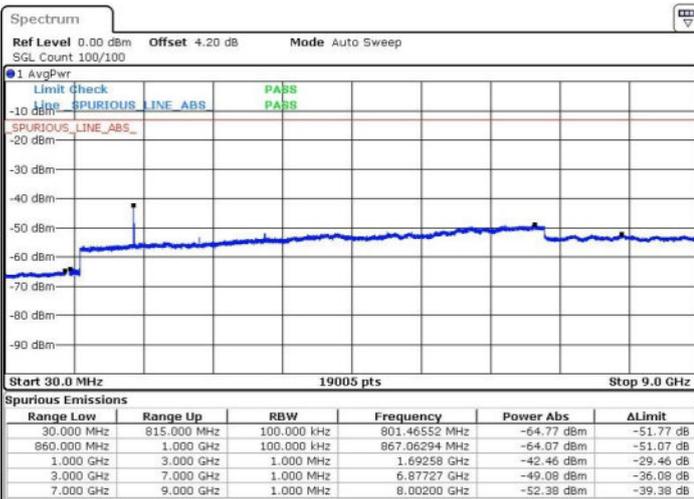


Date: 7 JUN 2016 04:18:10

Date: 7 JUN 2016 04:19:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7 JUN 2016 04:33:14

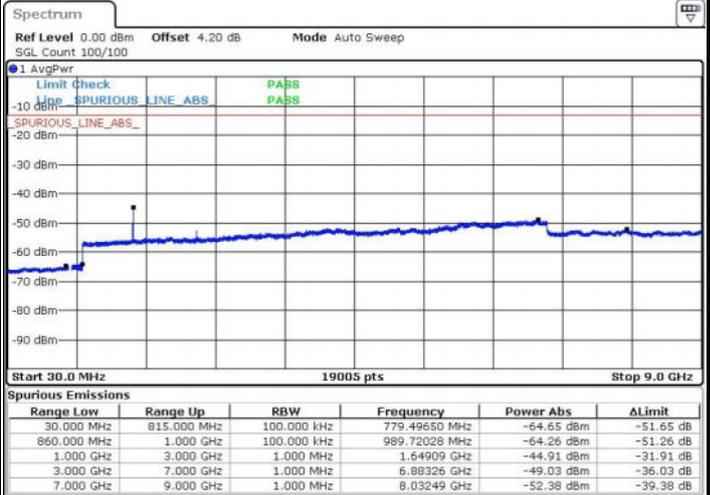
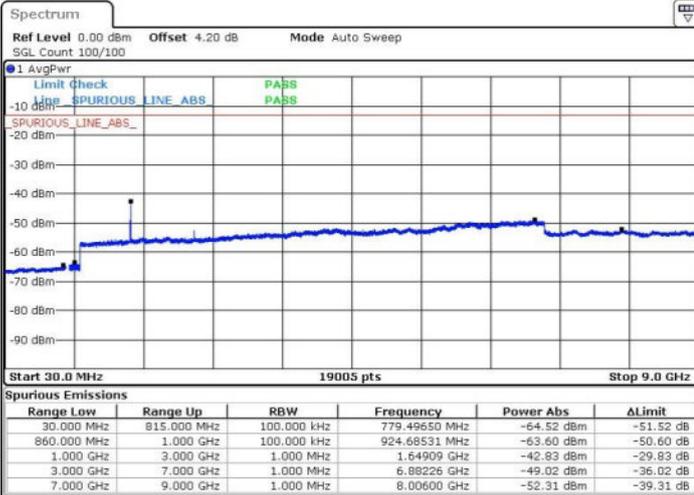
Date: 7 JUN 2016 04:34:09



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

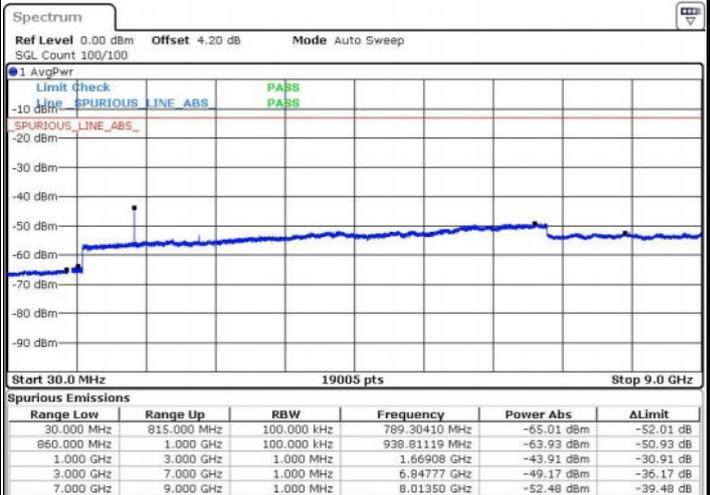
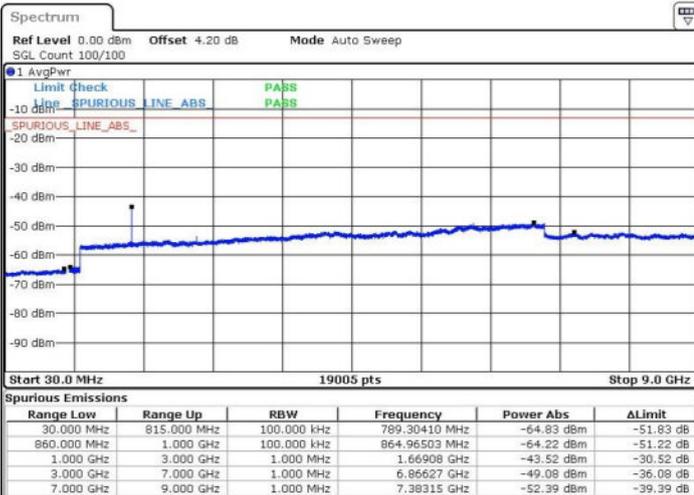


Date: 7 JUN 2016 04:48:18

Date: 7 JUN 2016 04:49:13

Middle Channel / QPSK

Middle Channel / 16QAM



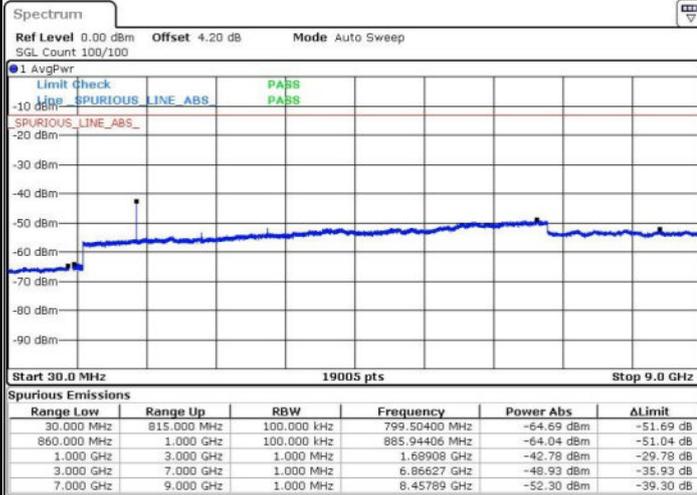
Date: 7 JUN 2016 04:50:50

Date: 7 JUN 2016 04:51:45



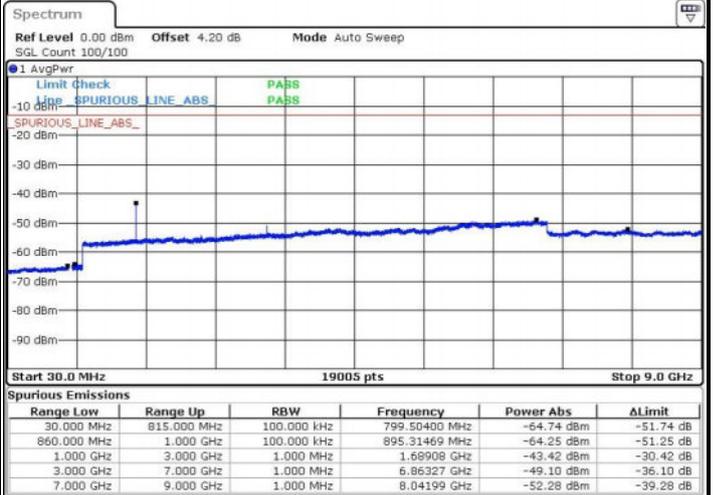
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 7 JUN 2016 05:05:54

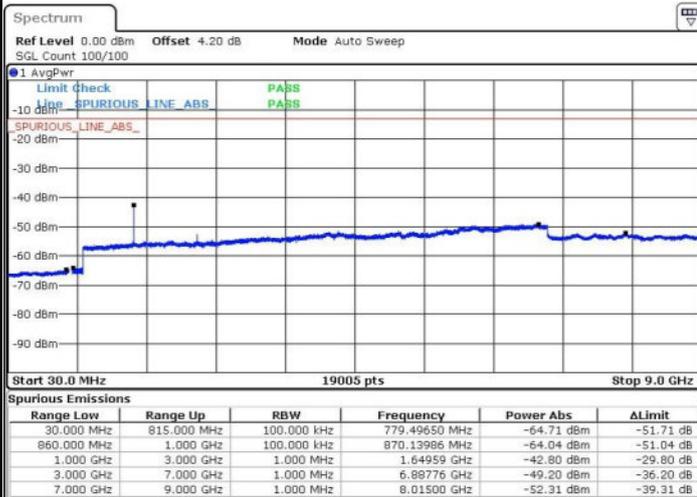
Highest Channel / 16QAM



Date: 7 JUN 2016 05:06:49

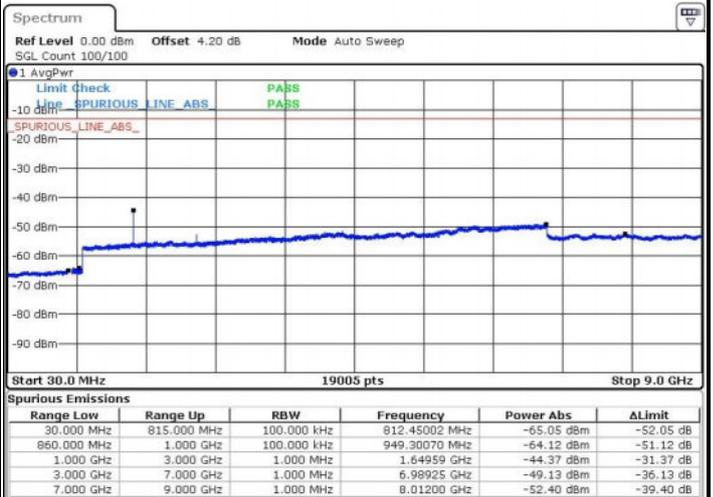
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 7 JUN 2016 05:20:58

Lowest Channel / 16QAM



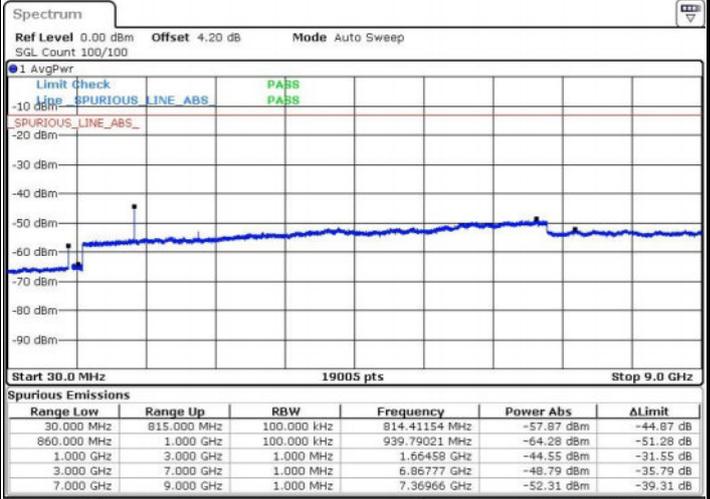
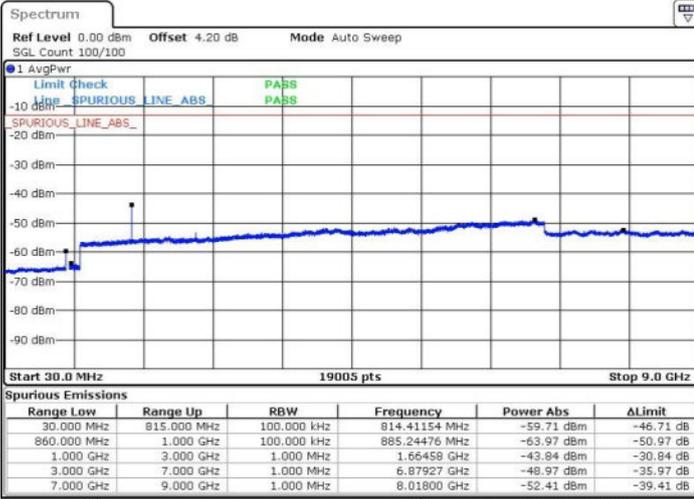
Date: 7 JUN 2016 05:21:53



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

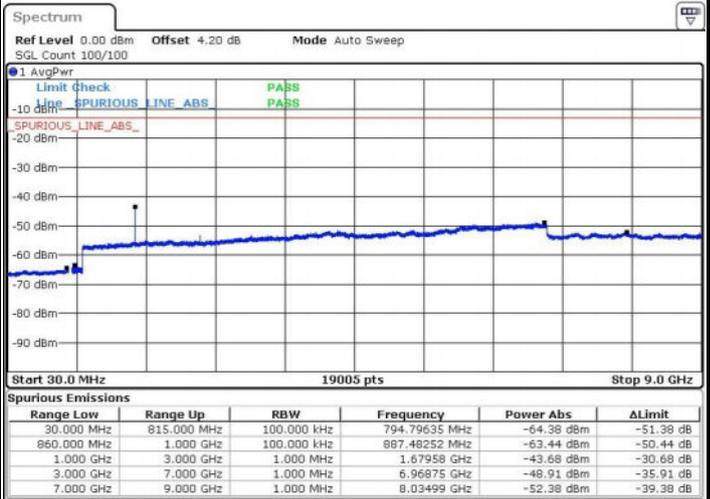
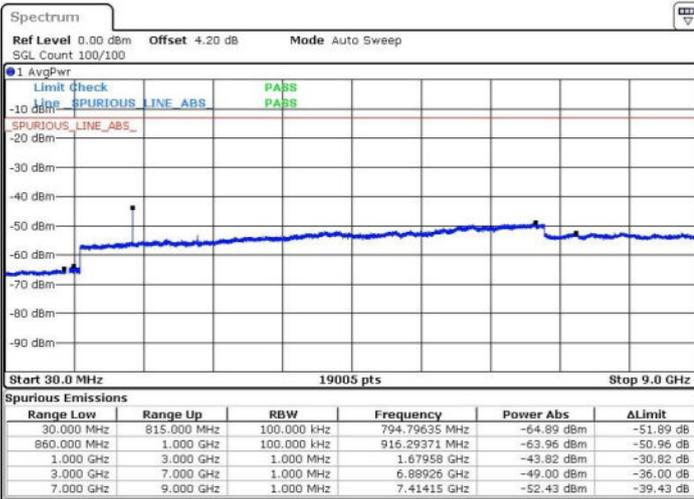


Date: 7 JUN 2016 05:23:30

Date: 7 JUN 2016 05:24:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7 JUN 2016 05:38:34

Date: 7 JUN 2016 05:39:29



Frequency Stability

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | 2.5ppm |
|                  |                   | Deviation (ppm)                    | Result |
| 50               | Normal Voltage    | 0.0036                             | PASS   |
| 40               | Normal Voltage    | 0.0005                             |        |
| 30               | Normal Voltage    | 0.0013                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0007                             |        |
| 0                | Normal Voltage    | 0.0006                             |        |
| -10              | Normal Voltage    | 0.0050                             |        |
| -20              | Normal Voltage    | 0.0055                             |        |
| -30              | Normal Voltage    | 0.0066                             |        |
| 20               | Maximum Voltage   | 0.0048                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0010                             |        |

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7V. ; Maximum Voltage =4.2V



## LTE Band 7

### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.57               | 5.13    | 4.41  | 6.12    | PASS        |
| Middle CH  | 3.68               | 5.48    | 4.67  | 6.41    |             |
| Highest CH | 3.88               | 5.16    | 4.35  | 6.17    |             |



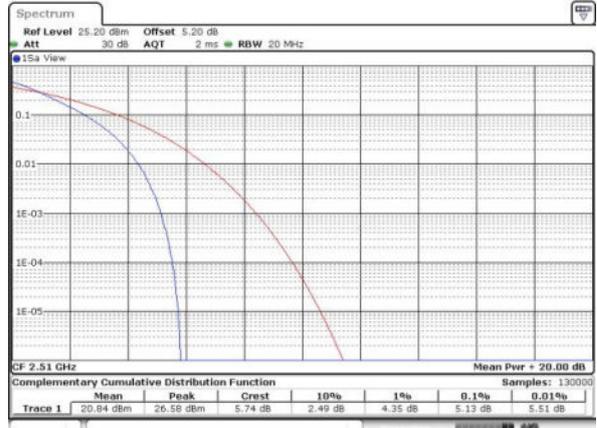
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



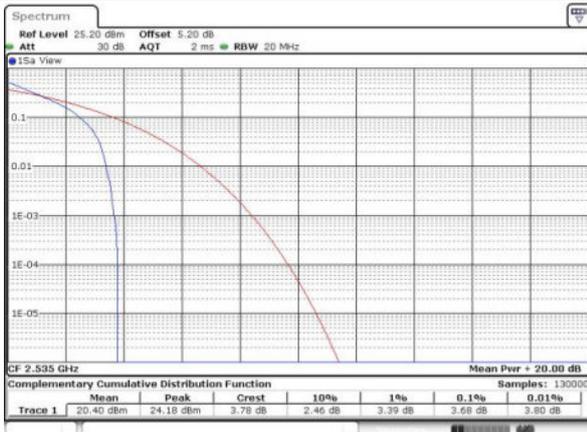
Date: 11 JUN 2016 10:49:00

Lowest Channel / Full RB



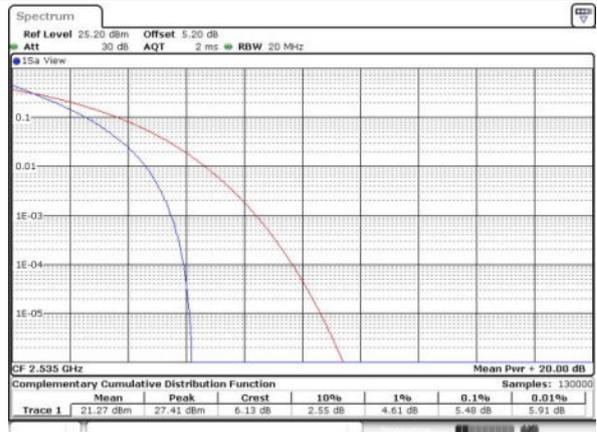
Date: 11 JUN 2016 10:49:15

Middle Channel / 1RB



Date: 11 JUN 2016 10:50:14

Middle Channel / Full RB



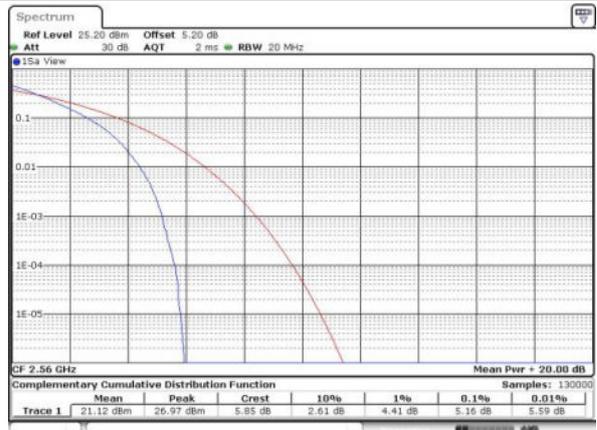
Date: 11 JUN 2016 10:50:03

Highest Channel / 1RB



Date: 11 JUN 2016 10:50:46

Highest Channel / Full RB

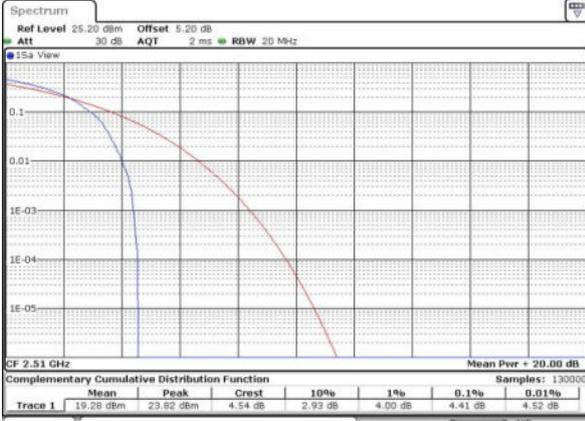


Date: 11 JUN 2016 10:50:56



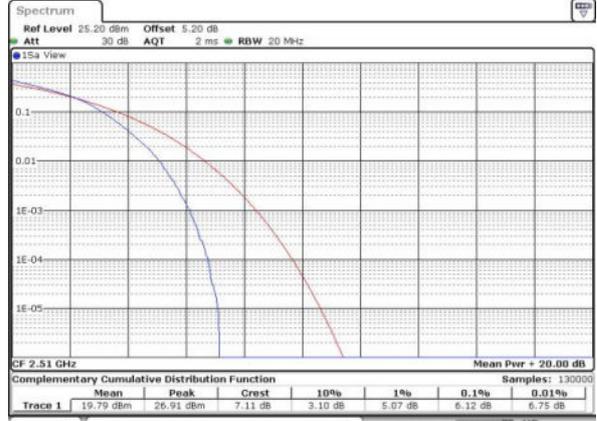
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



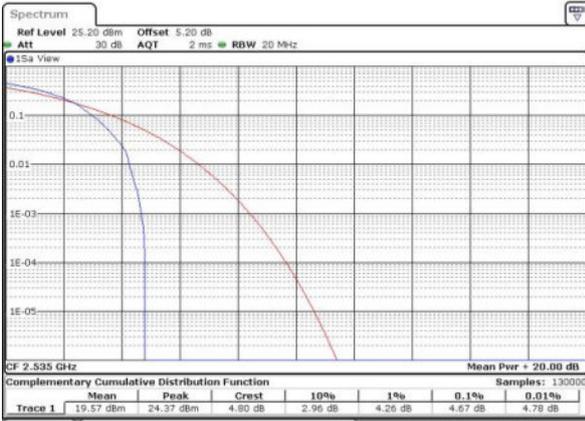
Date: 11 JUN 2016 10:48:45

Lowest Channel / Full RB



Date: 11 JUN 2016 10:49:42

Middle Channel / 1RB



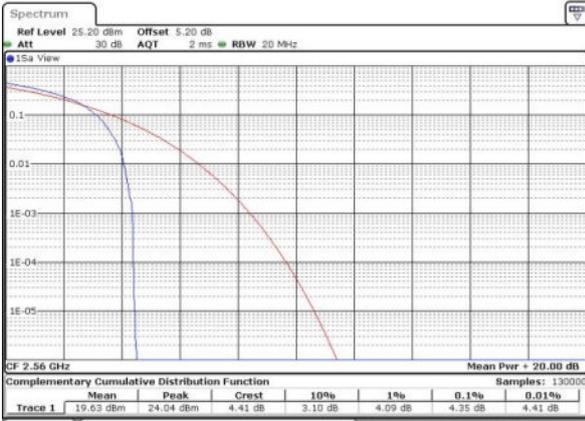
Date: 11 JUN 2016 10:50:25

Middle Channel / Full RB



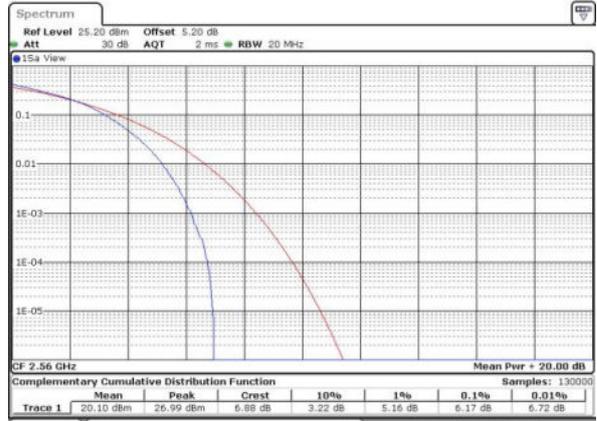
Date: 11 JUN 2016 10:49:52

Highest Channel / 1RB



Date: 11 JUN 2016 10:50:35

Highest Channel / Full RB



Date: 11 JUN 2016 10:51:07



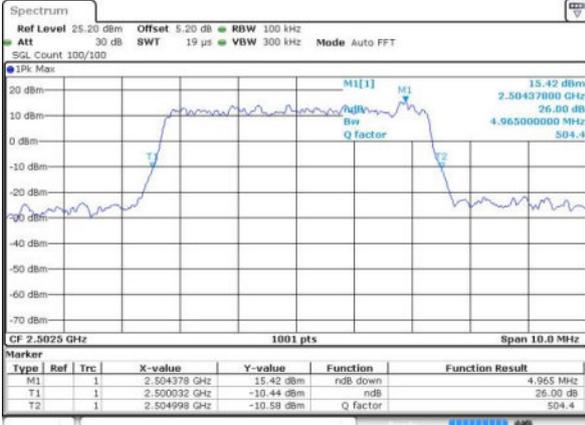
**26dB Bandwidth**

| Mode       | LTE Band 7 : 26dB BW(MHz) |       |      |       |       |       |       |       |        |        |        |        |
|------------|---------------------------|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
|            | 1.4MHz                    |       | 3MHz |       | 5MHz  |       | 10MHz |       | 15MHz  |        | 20MHz  |        |
| BW         |                           |       |      |       |       |       |       |       |        |        |        |        |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM  | QPSK   | 16QAM  |
| Lowest CH  | -                         | -     | -    | -     | 4.965 | 4.965 | 9.670 | 9.890 | 14.595 | 14.356 | 20.100 | 20.300 |
| Middle CH  | -                         | -     | -    | -     | 4.955 | 4.955 | 9.730 | 9.670 | 14.386 | 14.356 | 20.220 | 20.220 |
| Highest CH | -                         | -     | -    | -     | 4.875 | 5.035 | 9.710 | 9.630 | 14.625 | 14.476 | 20.220 | 20.140 |



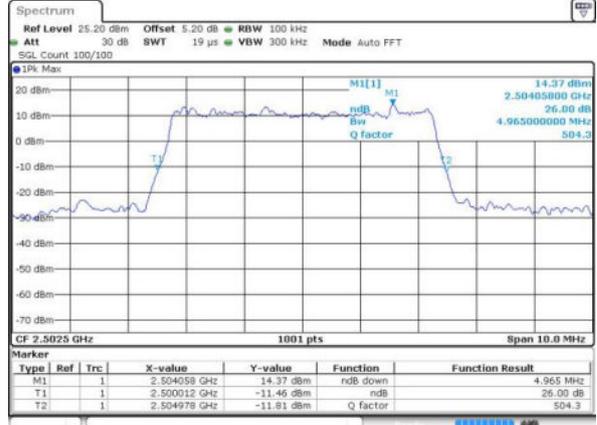
LTE Band 7

Lowest Channel / 5MHz / QPSK



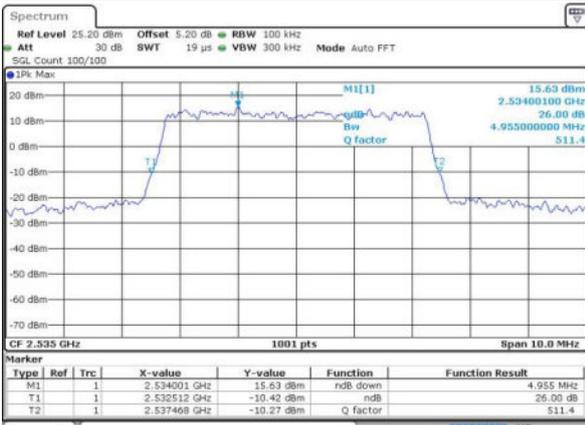
Date: 10 JUN 2016 14:58:42

Lowest Channel / 5MHz / 16QAM



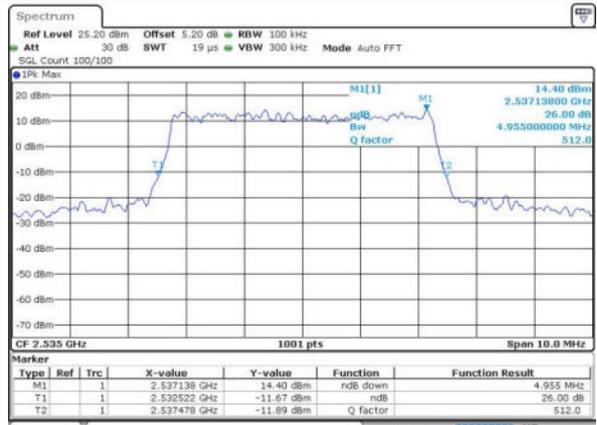
Date: 10 JUN 2016 14:59:05

Middle Channel / 5MHz / QPSK



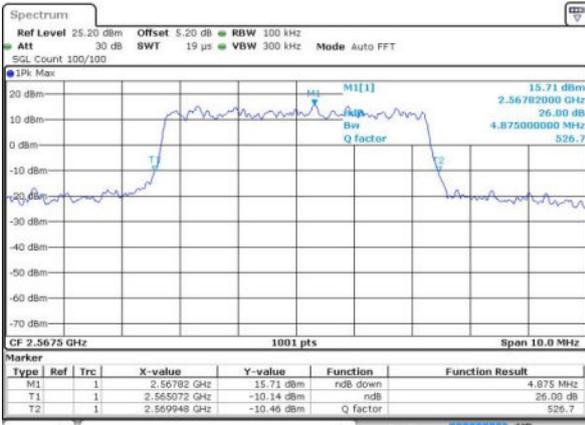
Date: 10 JUN 2016 14:59:49

Middle Channel / 5MHz / 16QAM



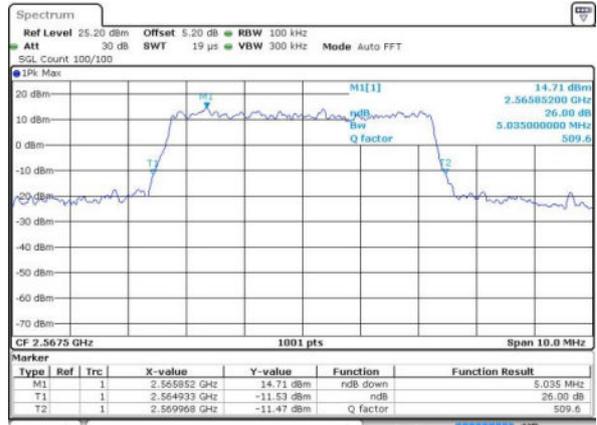
Date: 10 JUN 2016 14:59:27

Highest Channel / 5MHz / QPSK



Date: 10 JUN 2016 15:00:11

Highest Channel / 5MHz / 16QAM

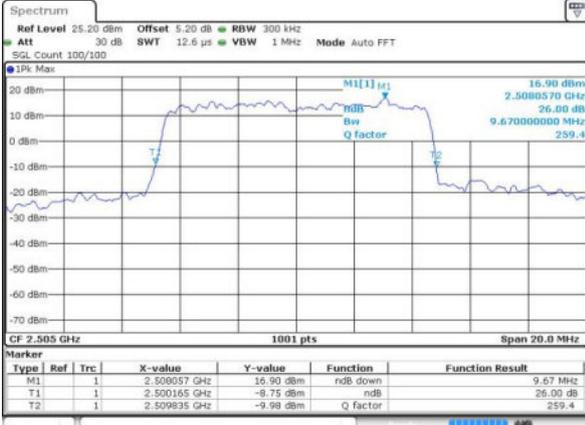


Date: 10 JUN 2016 15:00:33



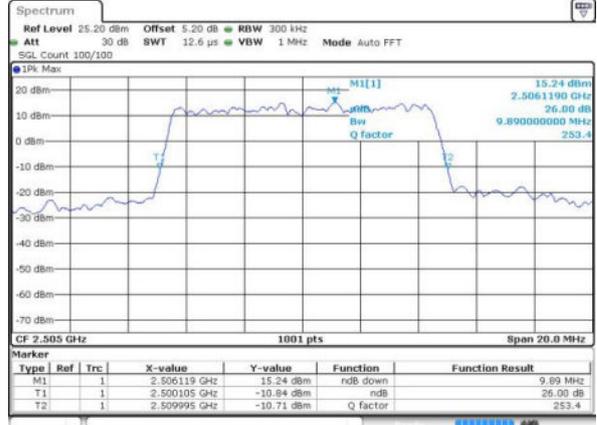
LTE Band 7

Lowest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:15:41

Lowest Channel / 10MHz / 16QAM



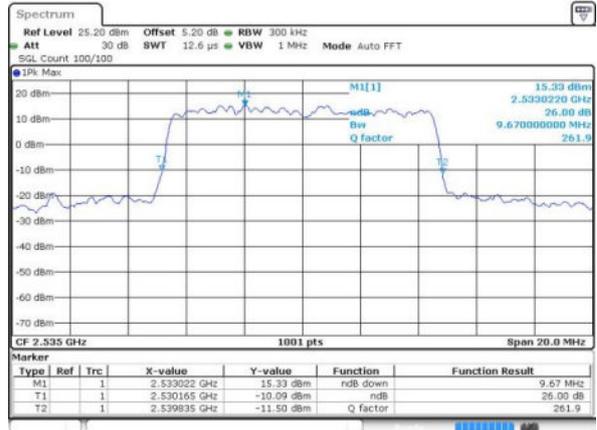
Date: 10 JUN 2016 15:16:03

Middle Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:16:47

Middle Channel / 10MHz / 16QAM



Date: 10 JUN 2016 15:16:25

Highest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:17:09

Highest Channel / 10MHz / 16QAM

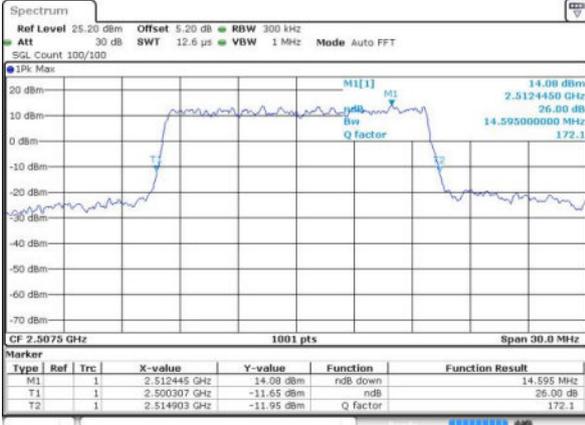


Date: 10 JUN 2016 15:17:31



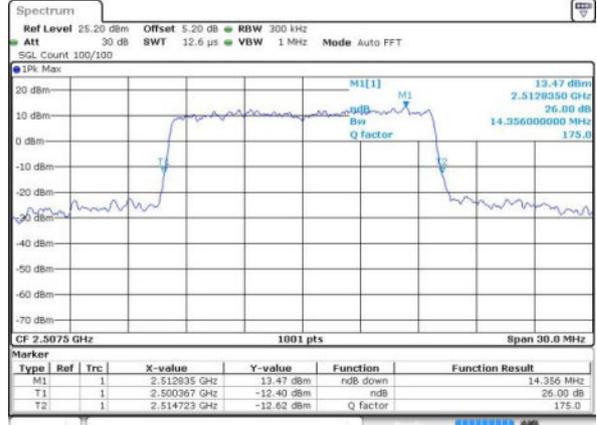
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:33:01

Lowest Channel / 15MHz / 16QAM



Date: 10 JUN 2016 15:32:39

Middle Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:33:23

Middle Channel / 15MHz / 16QAM



Date: 10 JUN 2016 15:33:45

Highest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:34:29

Highest Channel / 15MHz / 16QAM

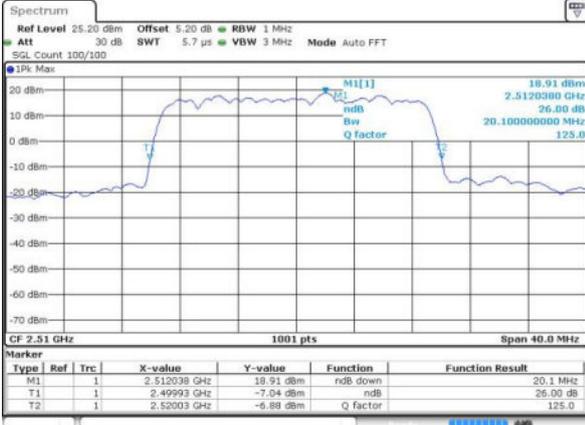


Date: 10 JUN 2016 15:34:07



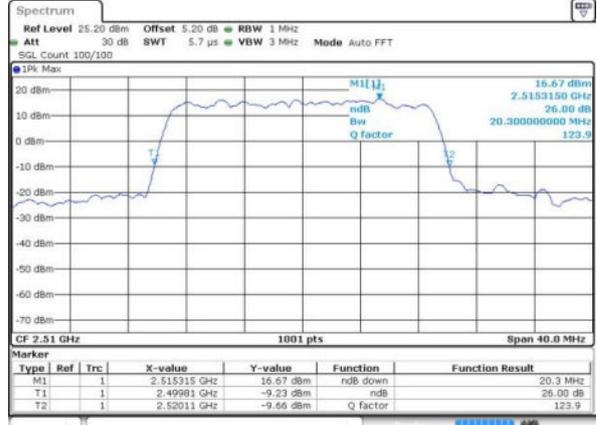
LTE Band 7

Lowest Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:49:59

Lowest Channel / 20MHz / 16QAM



Date: 10 JUN 2016 15:49:37

Middle Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:50:21

Middle Channel / 20MHz / 16QAM



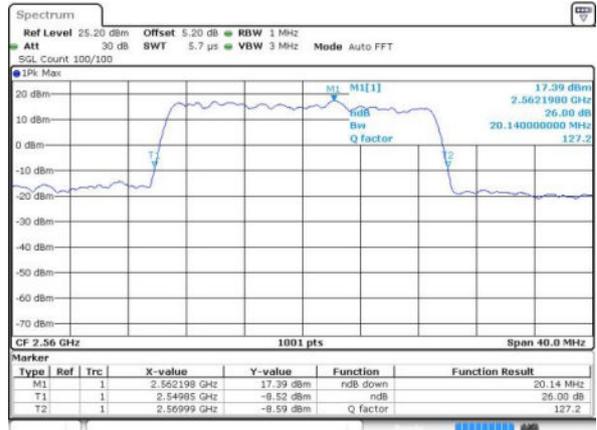
Date: 10 JUN 2016 15:50:42

Highest Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:51:26

Highest Channel / 20MHz / 16QAM



Date: 10 JUN 2016 15:51:04



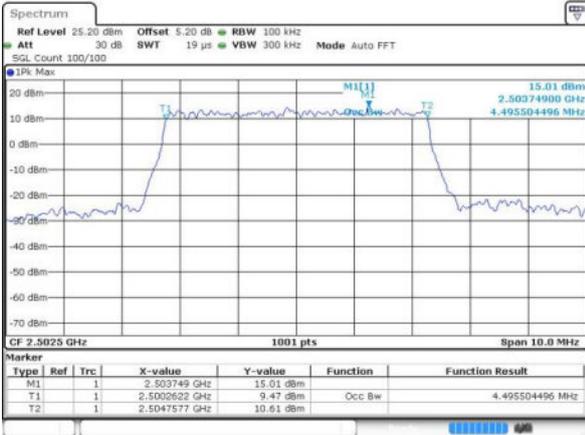
### Occupied Bandwidth

| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| BW         | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.50 | 4.52  | 9.11  | 9.03  | 13.43 | 13.46 | 18.50 | 18.58 |
| Middle CH  | -                        | -     | -    | -     | 4.51 | 4.49  | 9.05  | 9.03  | 13.46 | 13.55 | 18.50 | 18.54 |
| Highest CH | -                        | -     | -    | -     | 4.54 | 4.52  | 9.03  | 9.01  | 13.43 | 13.52 | 18.46 | 18.46 |



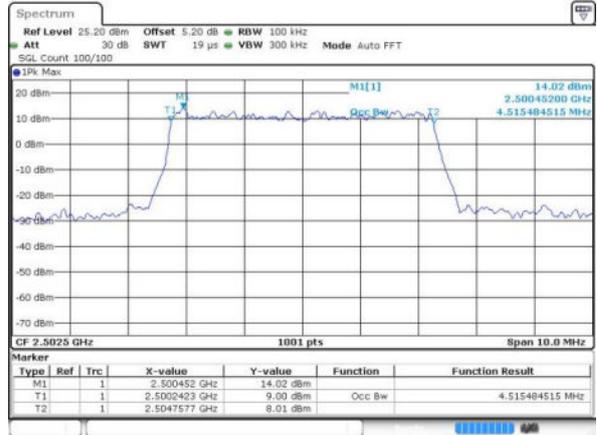
LTE Band 7

Lowest Channel / 5MHz / QPSK



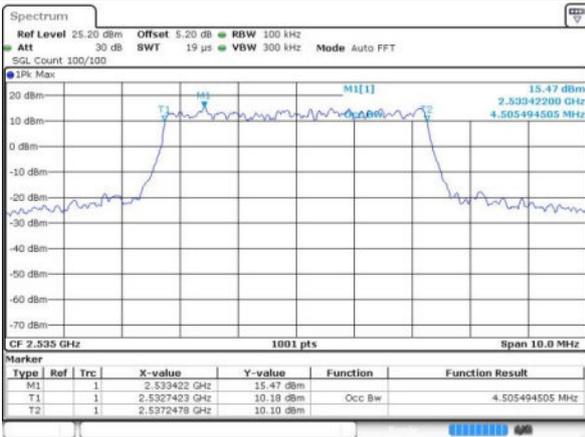
Date: 10 JUN 2016 14:58:32

Lowest Channel / 5MHz / 16QAM



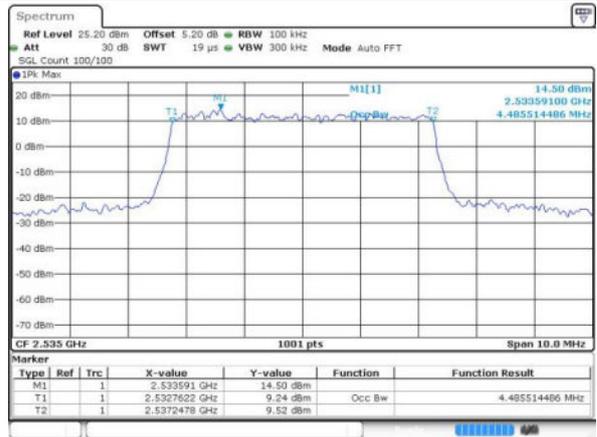
Date: 10 JUN 2016 14:58:54

Middle Channel / 5MHz / QPSK



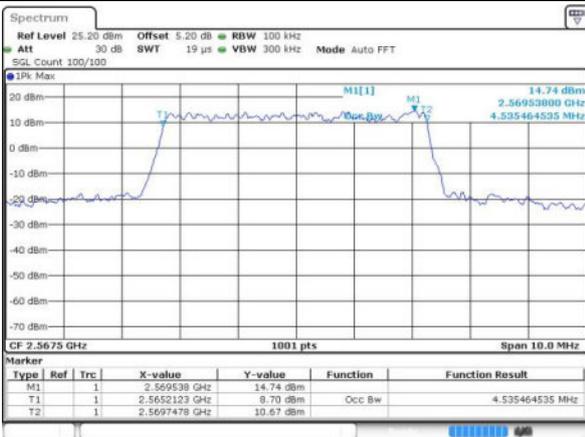
Date: 10 JUN 2016 14:59:38

Middle Channel / 5MHz / 16QAM



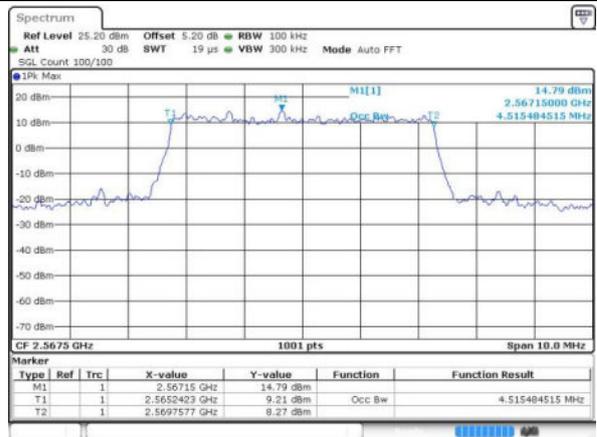
Date: 10 JUN 2016 14:59:16

Highest Channel / 5MHz / QPSK



Date: 10 JUN 2016 15:00:00

Highest Channel / 5MHz / 16QAM

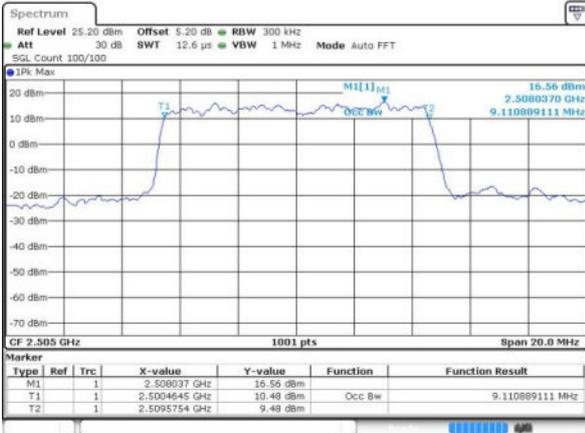


Date: 10 JUN 2016 15:00:22



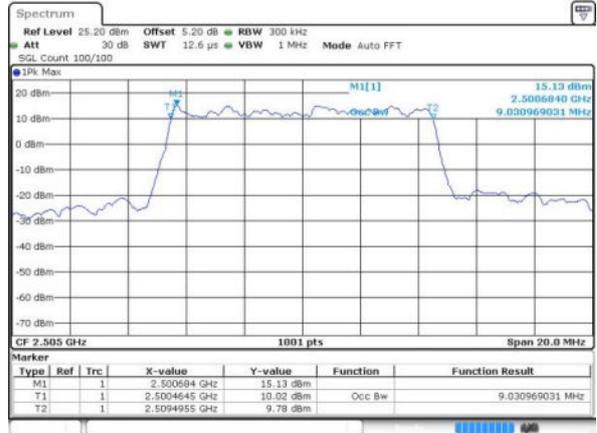
LTE Band 7

Lowest Channel / 10MHz / QPSK



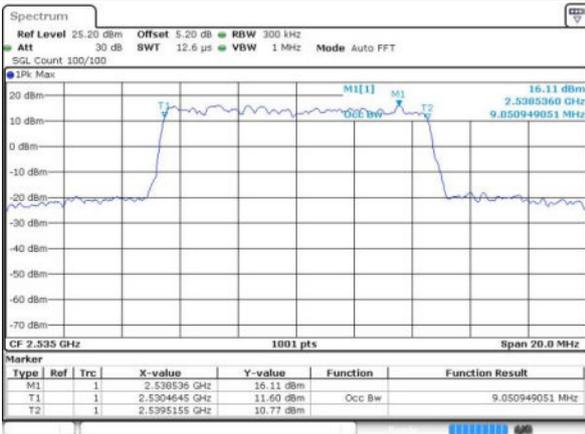
Date: 10 JUN 2016 15:15:30

Lowest Channel / 10MHz / 16QAM



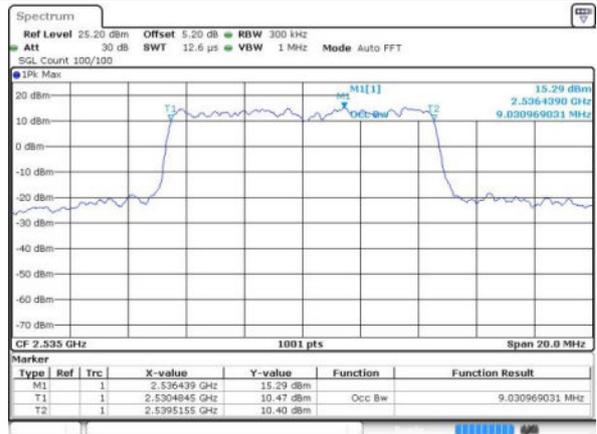
Date: 10 JUN 2016 15:15:52

Middle Channel / 10MHz / QPSK



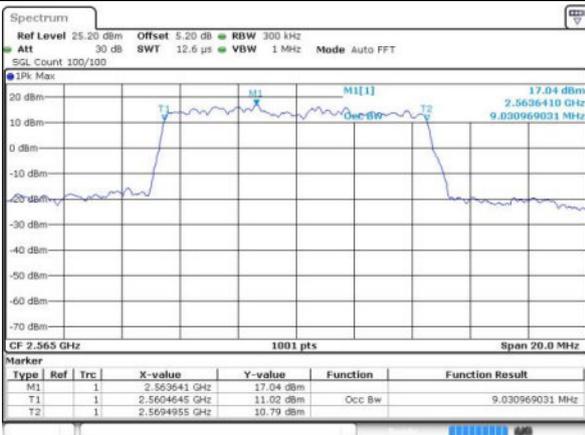
Date: 10 JUN 2016 15:16:36

Middle Channel / 10MHz / 16QAM



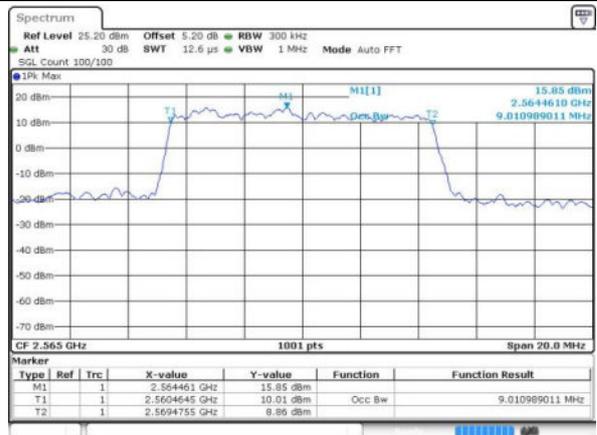
Date: 10 JUN 2016 15:16:14

Highest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:16:58

Highest Channel / 10MHz / 16QAM

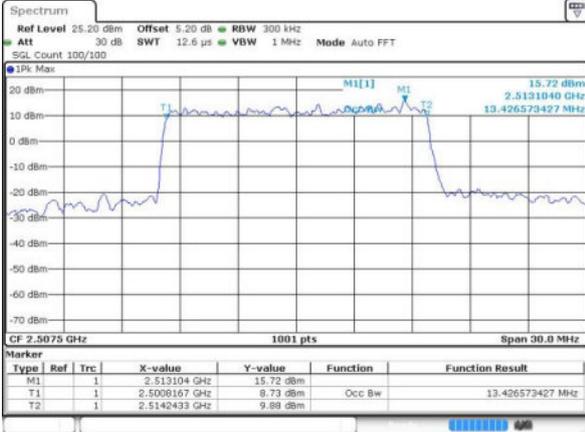


Date: 10 JUN 2016 15:17:20



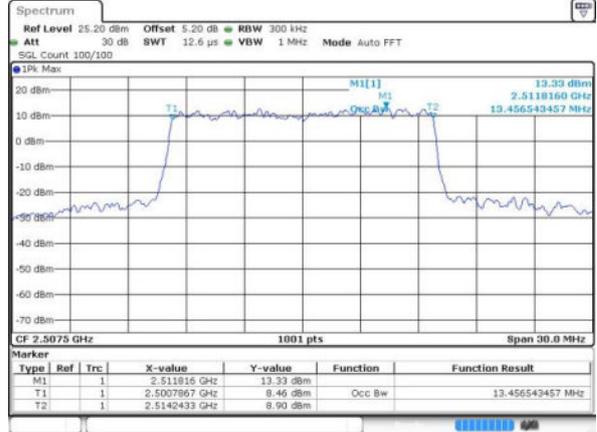
LTE Band 7

Lowest Channel / 15MHz / QPSK



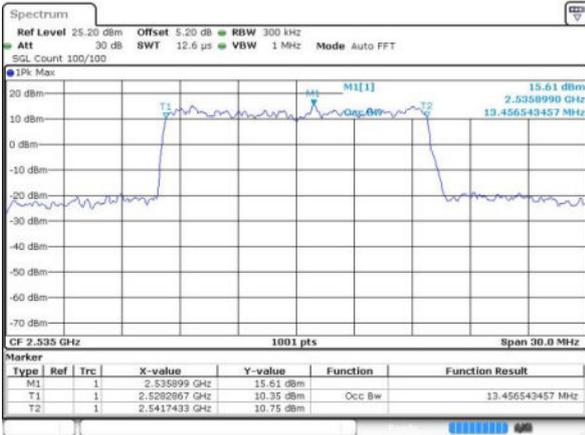
Date: 10 JUN 2016 15:32:50

Lowest Channel / 15MHz / 16QAM



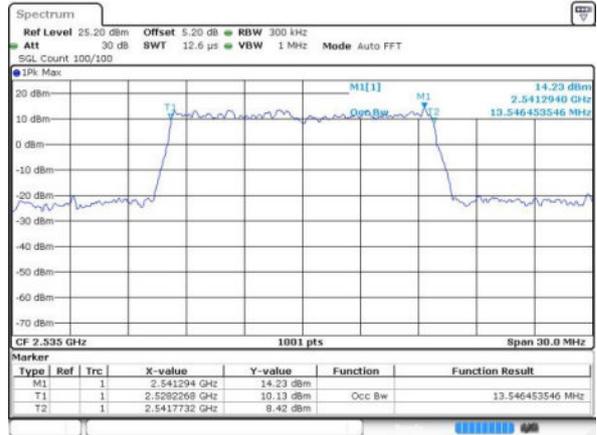
Date: 10 JUN 2016 15:32:28

Middle Channel / 15MHz / QPSK



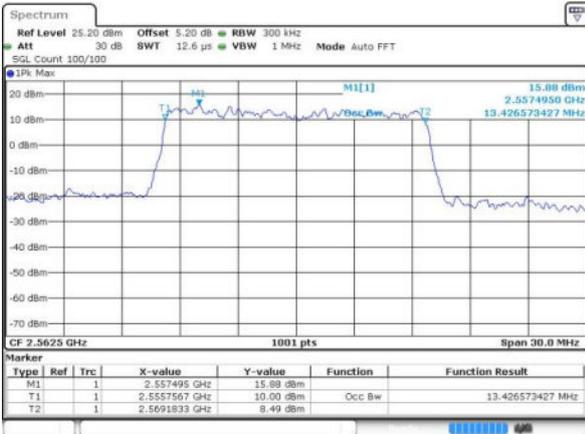
Date: 10 JUN 2016 15:33:12

Middle Channel / 15MHz / 16QAM



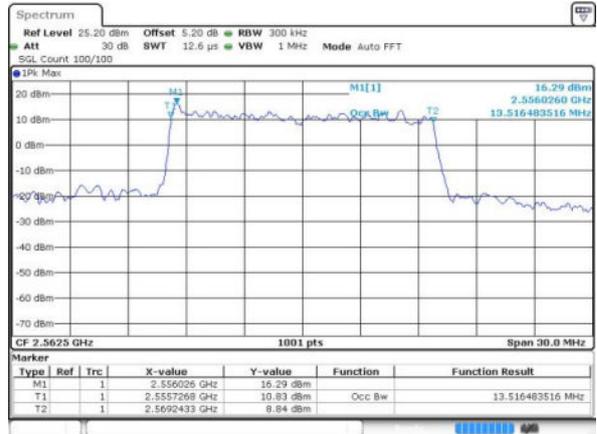
Date: 10 JUN 2016 15:33:34

Highest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:34:18

Highest Channel / 15MHz / 16QAM

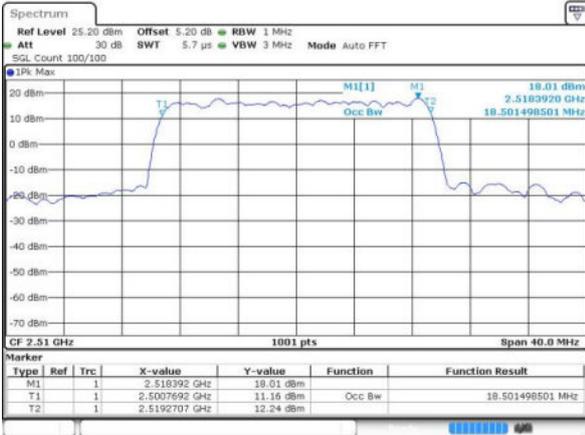


Date: 10 JUN 2016 15:33:56



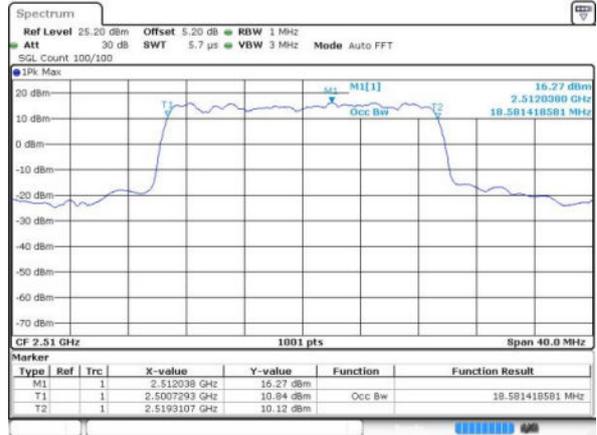
LTE Band 7

Lowest Channel / 20MHz / QPSK



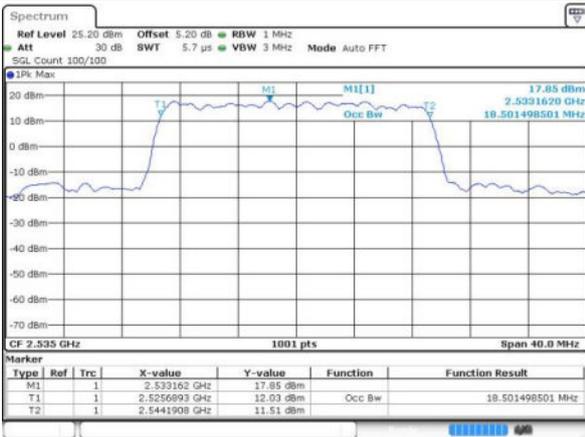
Date: 10 JUN 2016 15:49:48

Lowest Channel / 20MHz / 16QAM



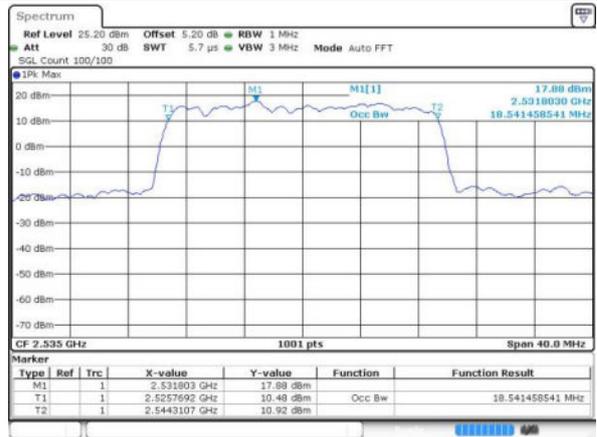
Date: 10 JUN 2016 15:49:26

Middle Channel / 20MHz / QPSK



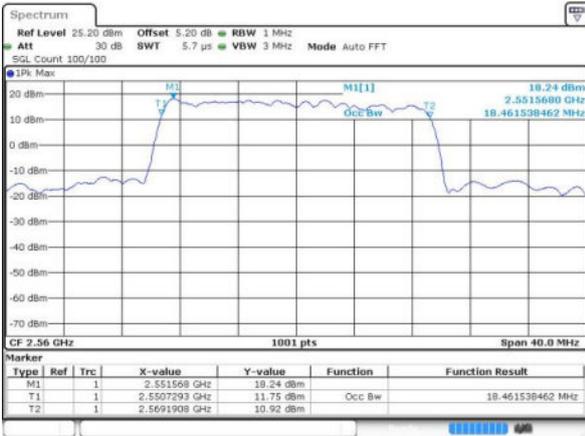
Date: 10 JUN 2016 15:50:10

Middle Channel / 20MHz / 16QAM



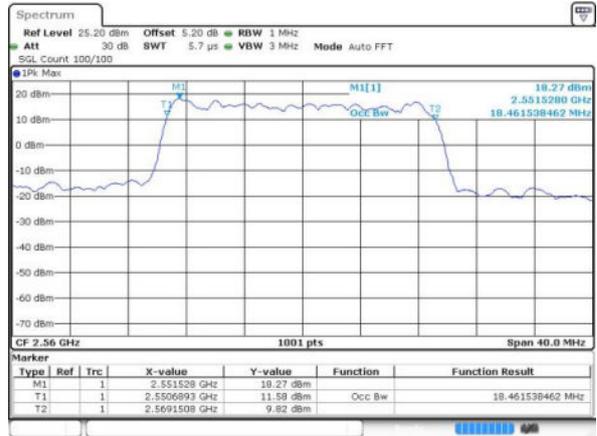
Date: 10 JUN 2016 15:50:32

Highest Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:51:15

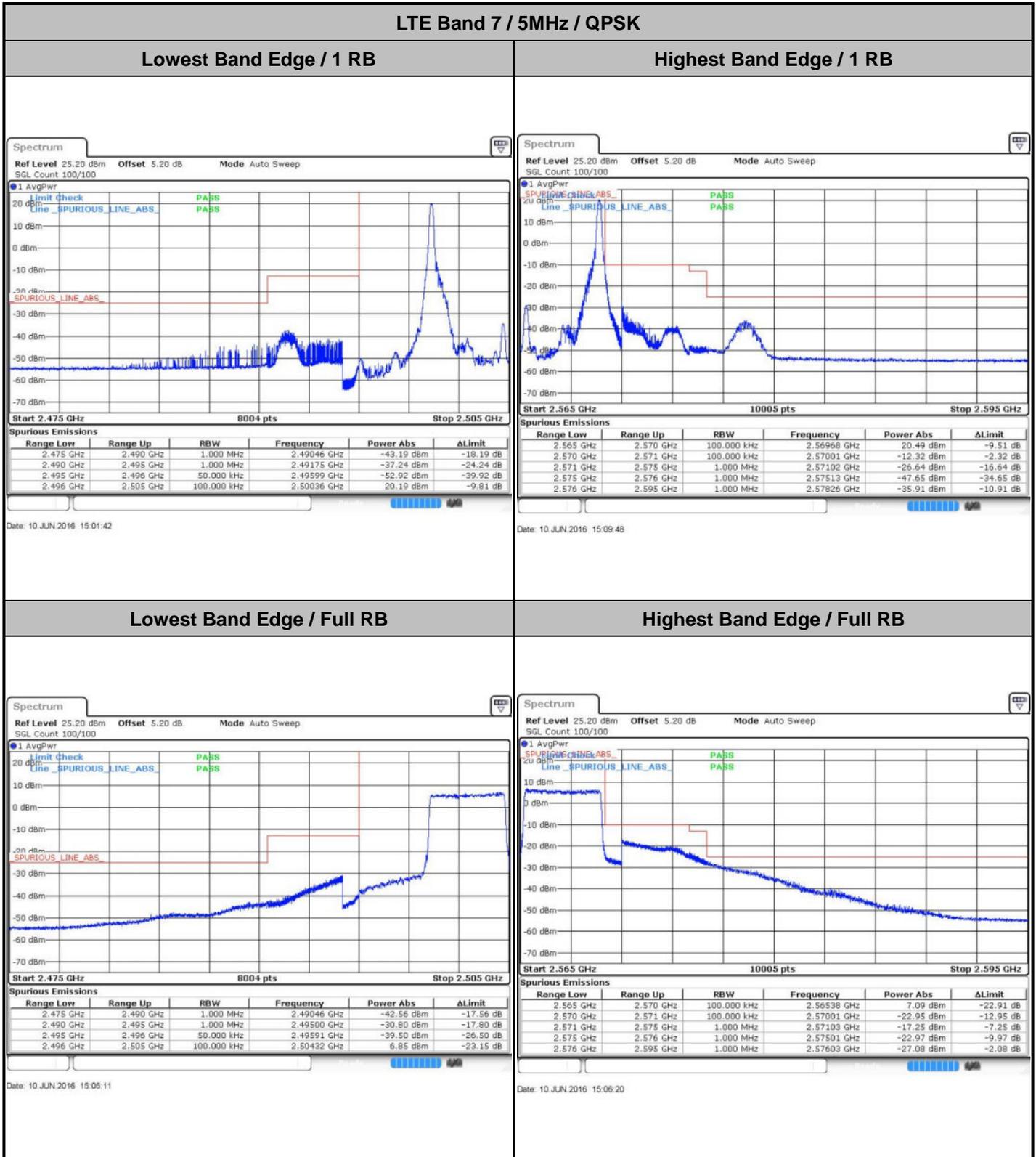
Highest Channel / 20MHz / 16QAM



Date: 10 JUN 2016 15:50:53



# Conducted Band Edge





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 10 JUN 2016 15:02:52

Highest Band Edge / 1 RB



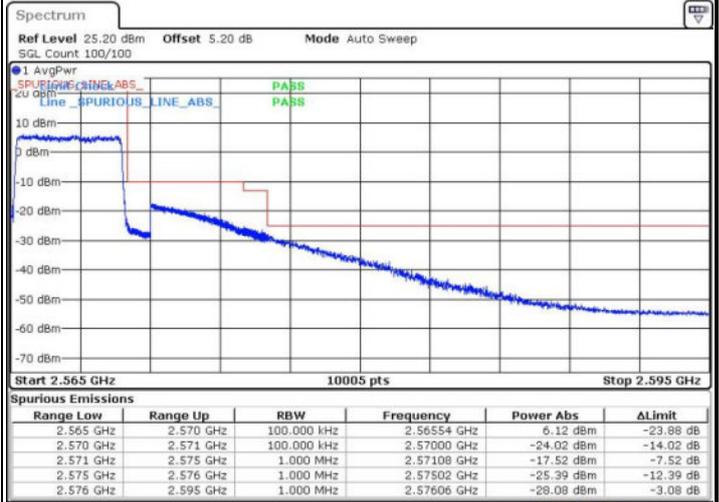
Date: 10 JUN 2016 15:08:39

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:04:02

Highest Band Edge / Full RB

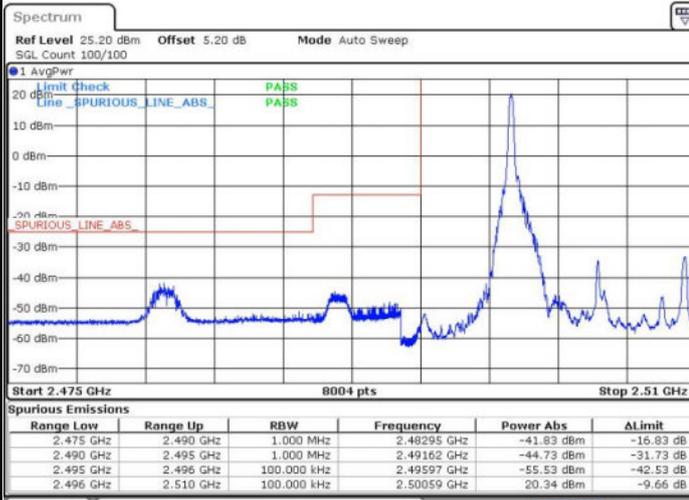


Date: 10 JUN 2016 15:07:30



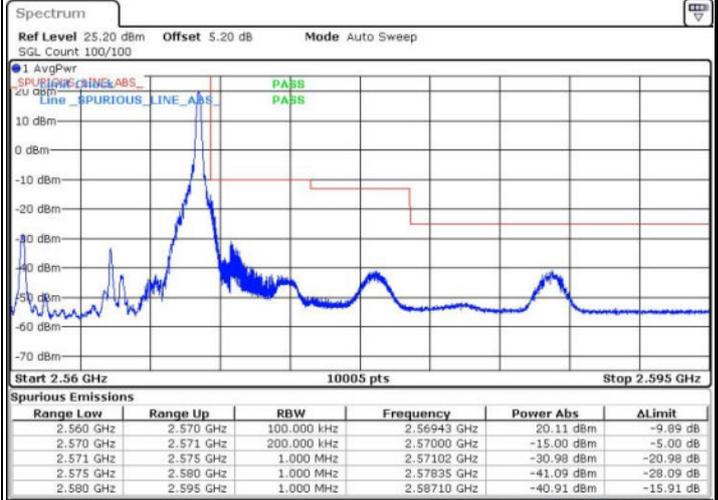
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



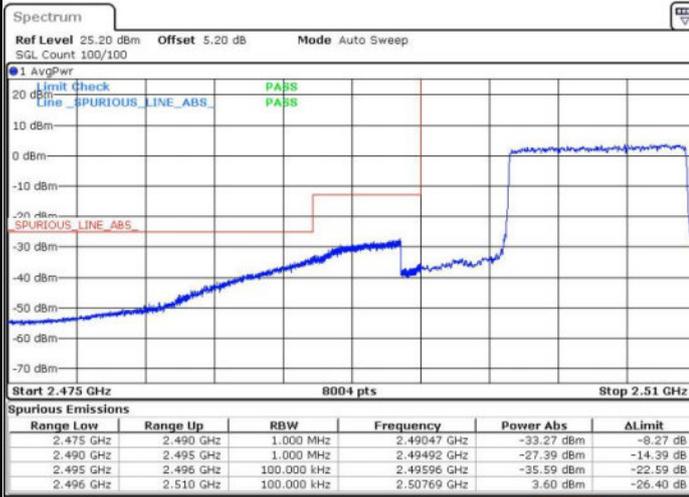
Date: 10 JUN 2016 15:18:40

Highest Band Edge / 1 RB



Date: 10 JUN 2016 15:26:45

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:22:08

Highest Band Edge / Full RB



Date: 10 JUN 2016 15:23:17



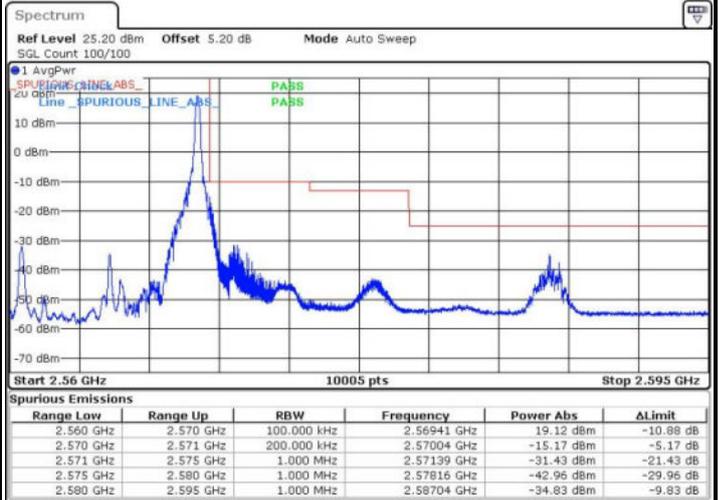
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



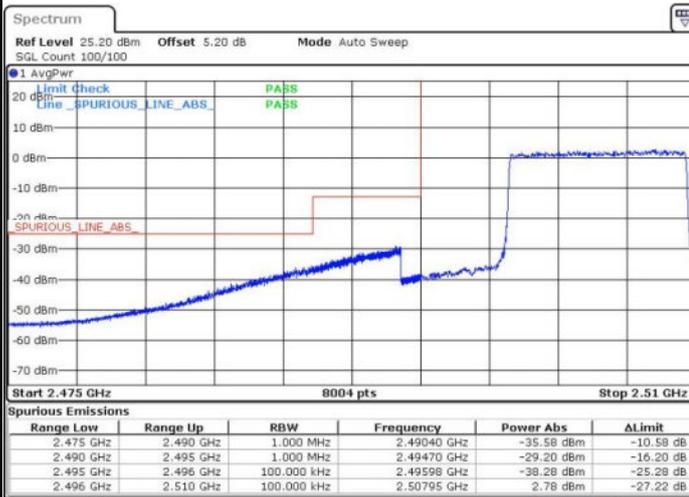
Date: 10 JUN 2016 15:19:49

Highest Band Edge / 1 RB



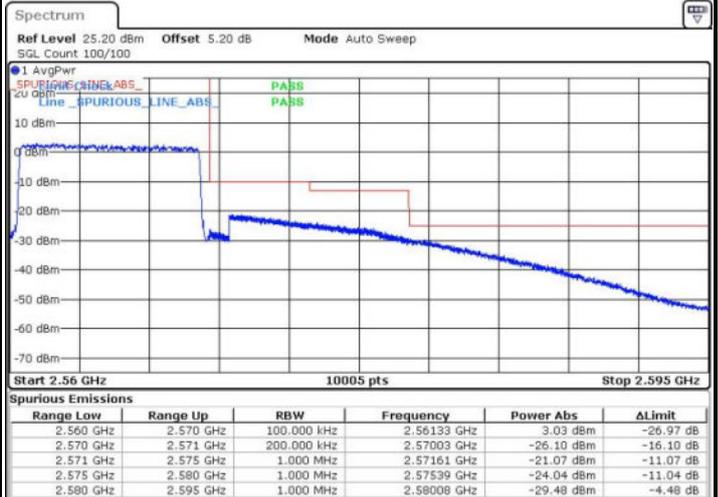
Date: 10 JUN 2016 15:25:36

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:20:59

Highest Band Edge / Full RB



Date: 10 JUN 2016 15:24:26