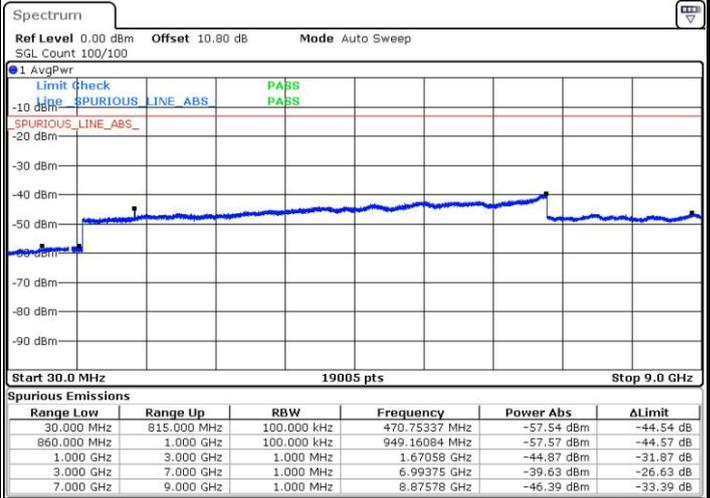




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

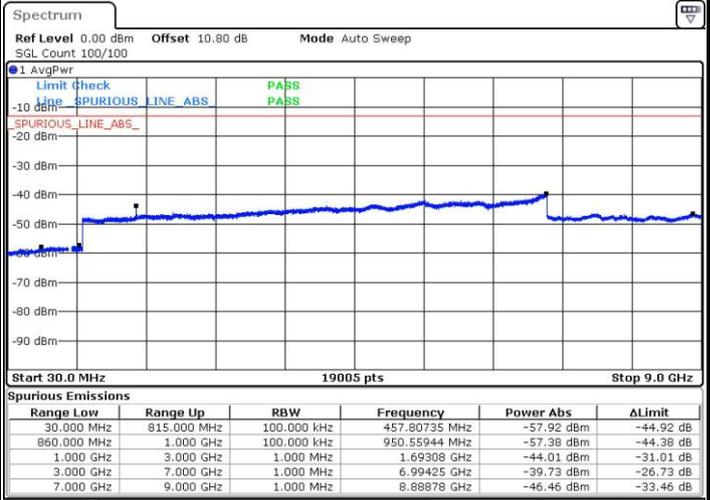
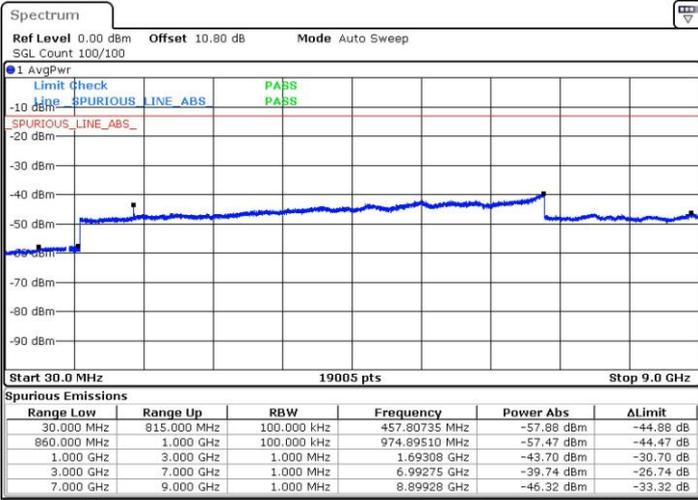


Date: 2.DEC.2016 09:34:37

Date: 2.DEC.2016 09:35:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.DEC.2016 09:43:59

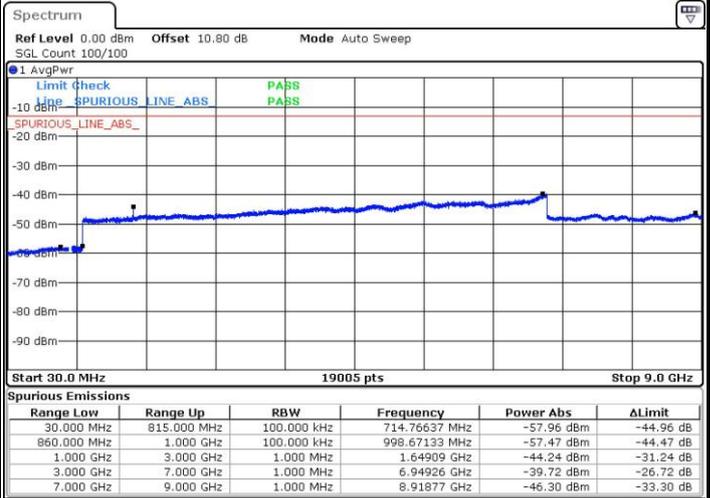
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LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

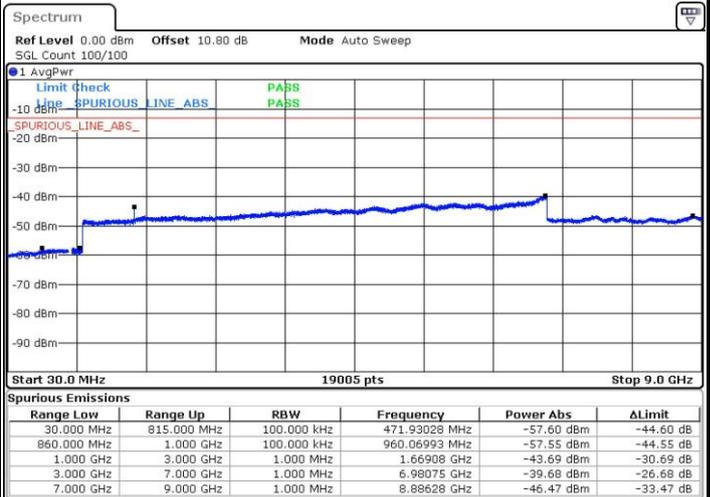
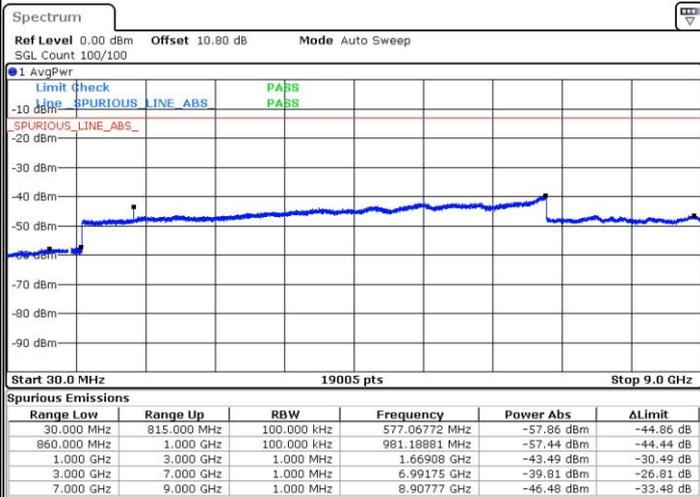


Date: 2.DEC.2016 09:53:21

Date: 2.DEC.2016 09:54:19

Middle Channel / QPSK

Middle Channel / 16QAM



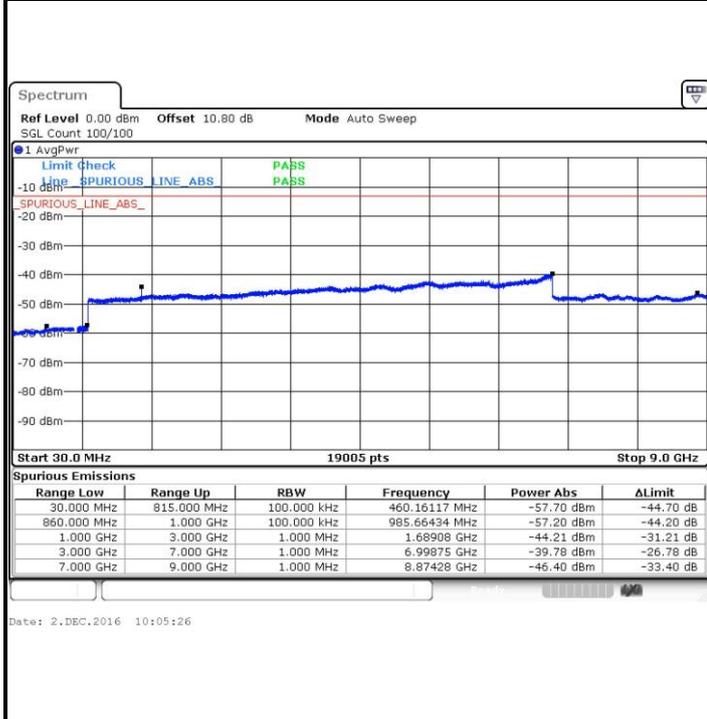
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Date: 2.DEC.2016 09:57:03

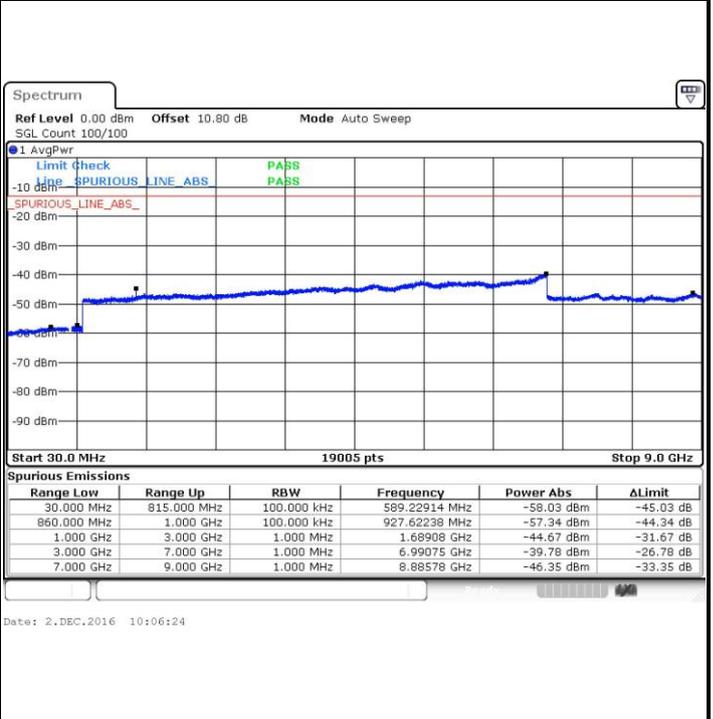


LTE Band 5 / 5MHz

Highest Channel / QPSK

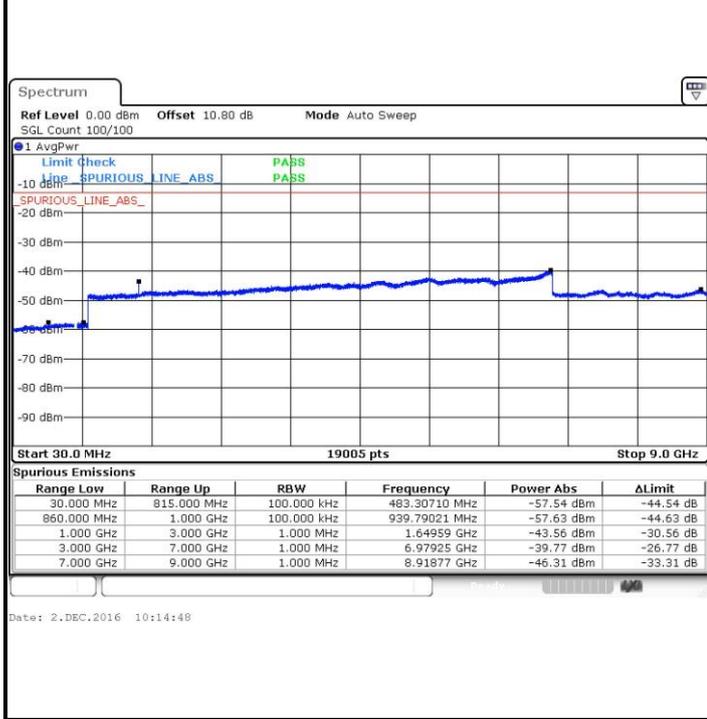


Highest Channel / 16QAM

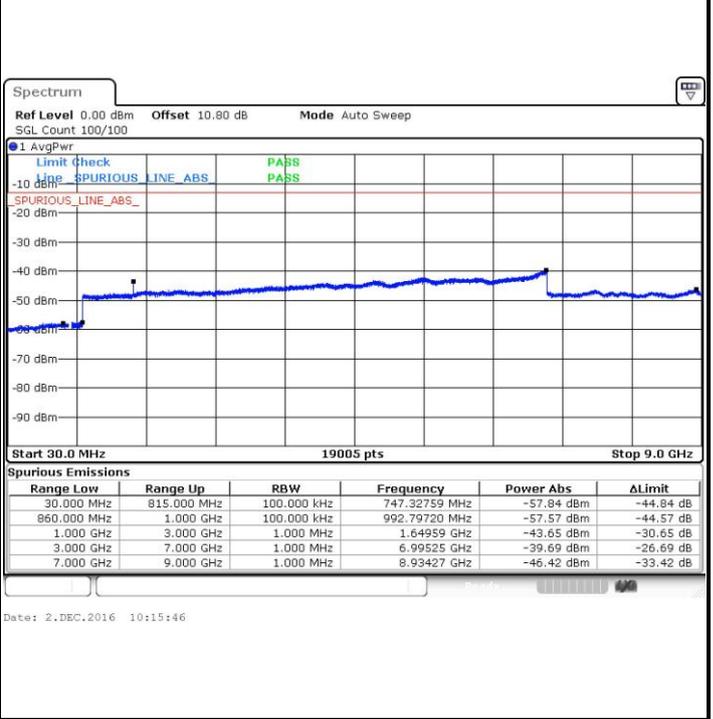


LTE Band 5 / 10MHz

Lowest Channel / QPSK



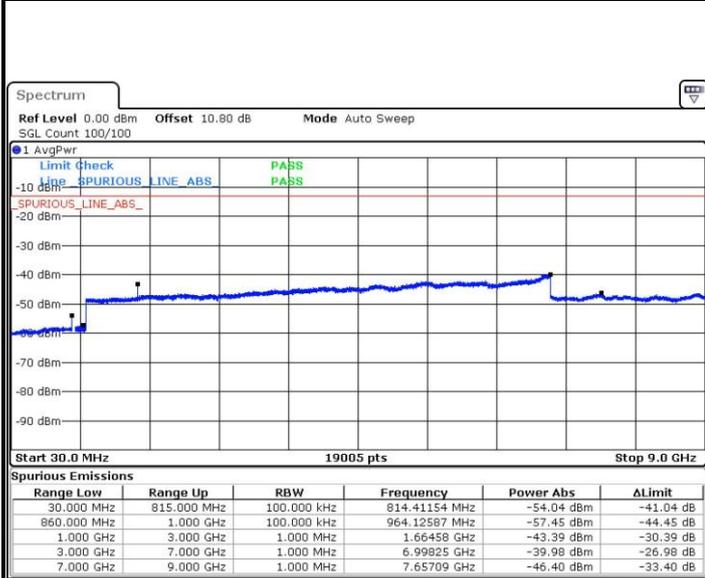
Lowest Channel / 16QAM





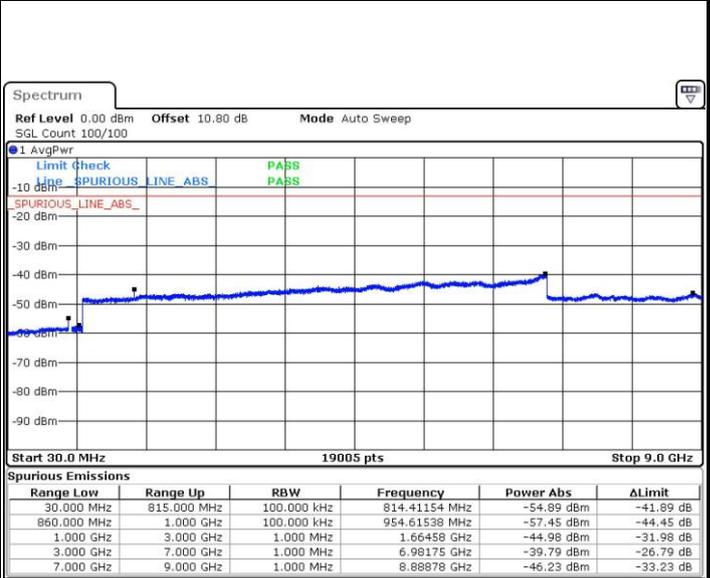
LTE Band 5 / 10MHz

Middle Channel / QPSK



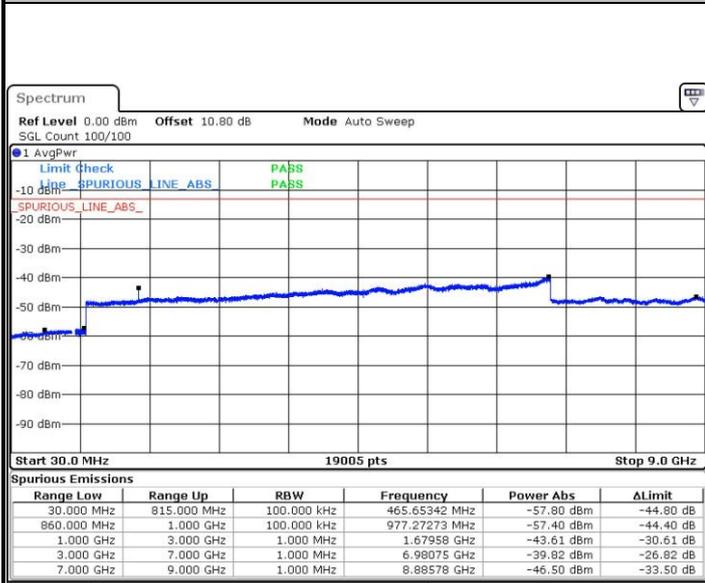
Date: 2.DEC.2016 10:17:32

Middle Channel / 16QAM



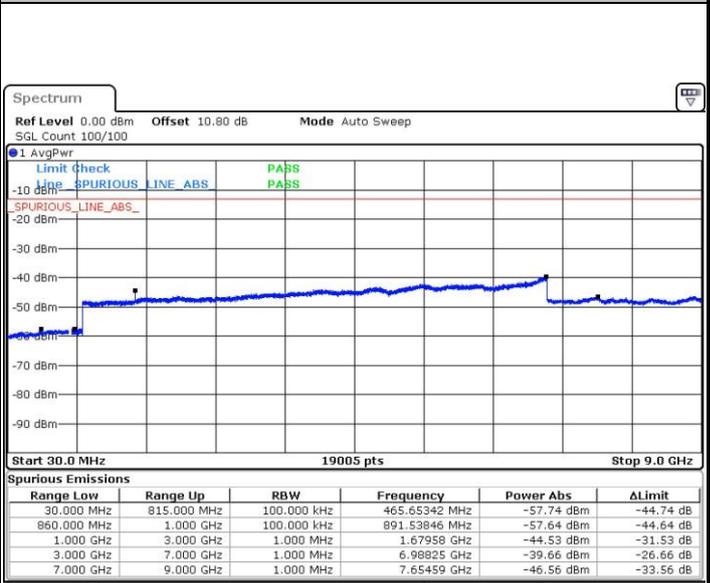
Date: 2.DEC.2016 10:18:30

Highest Channel / QPSK



Date: 2.DEC.2016 10:26:55

Highest Channel / 16QAM



Date: 2.DEC.2016 10:27:53



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    | 0.0117                             | PASS   |
| 40               | Normal Voltage    | 0.0094                             |        |
| 30               | Normal Voltage    | 0.0020                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0004                             |        |
| 0                | Normal Voltage    | 0.0004                             |        |
| -10              | Normal Voltage    | 0.0017                             |        |
| -20              | Normal Voltage    | 0.0010                             |        |
| -30              | Normal Voltage    | 0.0014                             |        |
| 20               | Maximum Voltage   | 0.0004                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0097                             |        |

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 7

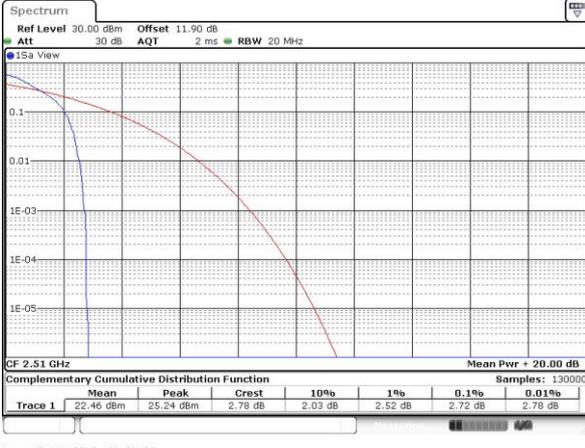
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 2.72               | 4.14    | 2.99  | 4.46    | <b>PASS</b> |
| Middle CH  | 3.04               | 3.94    | 3.59  | 4.35    |             |
| Highest CH | 2.84               | 3.86    | 3.13  | 4.29    |             |



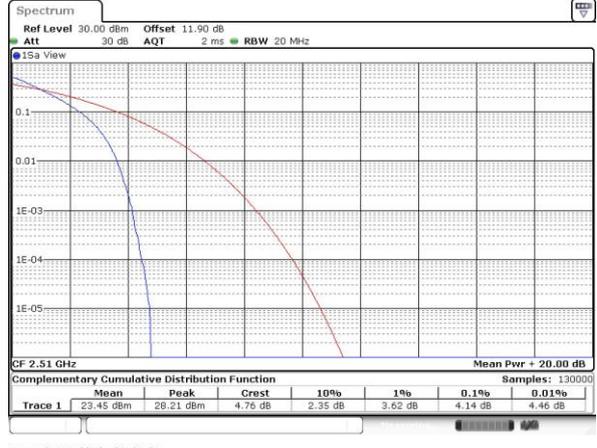
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



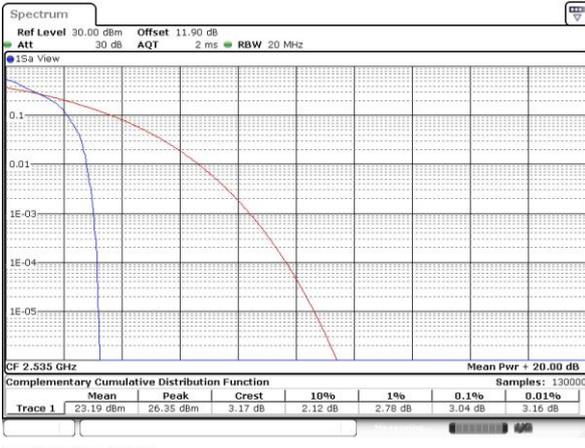
Date: 2.DEC.2016 01:01:04

Lowest Channel / Full RB



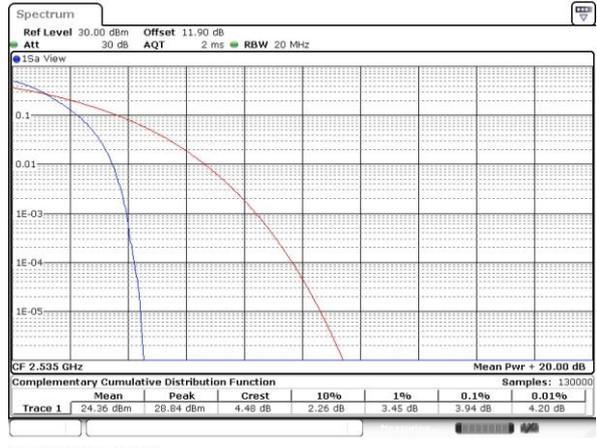
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Middle Channel / 1RB



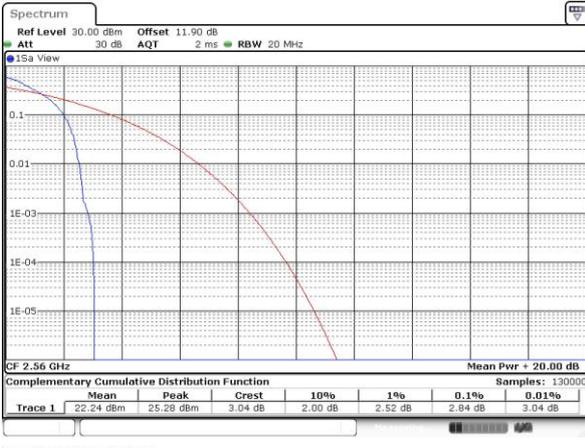
Date: 2.DEC.2016 01:01:35

Middle Channel / Full RB



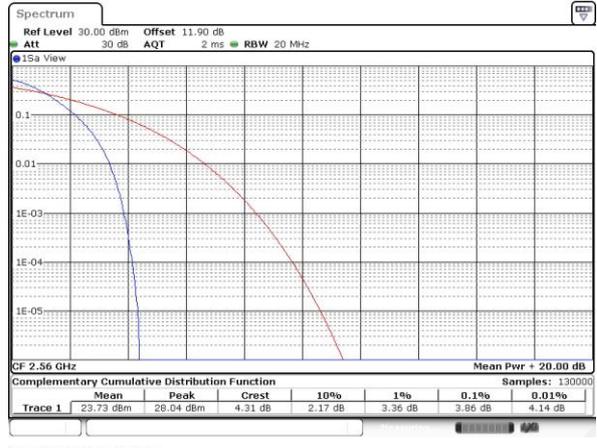
Date: 2.DEC.2016 01:01:55

Highest Channel / 1RB



Date: 2.DEC.2016 01:02:21

Highest Channel / Full RB

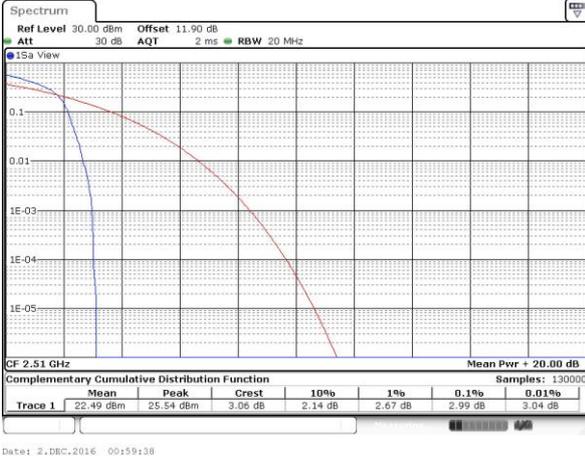


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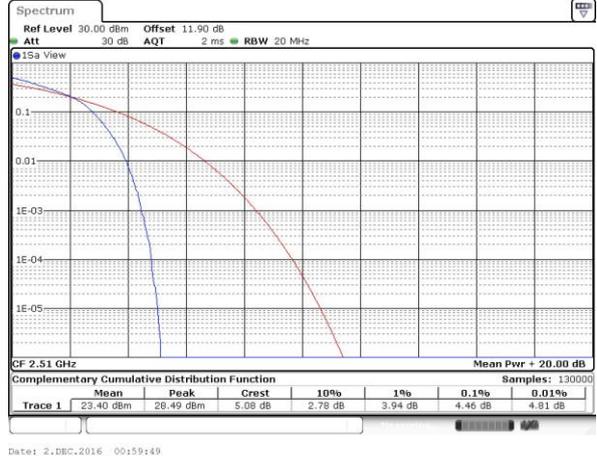
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



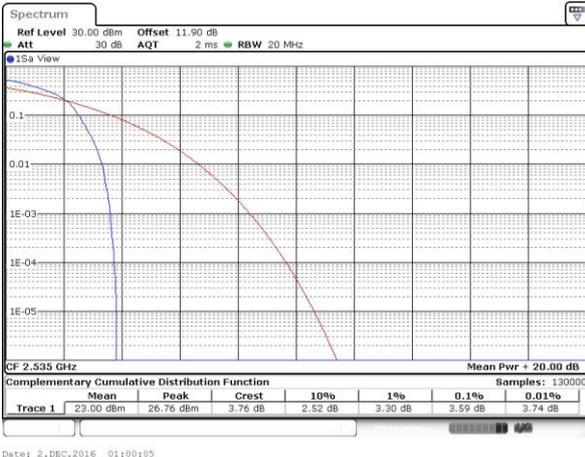
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Lowest Channel / Full RB



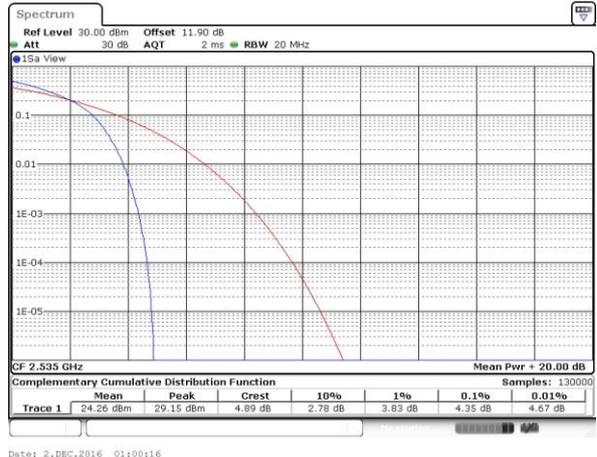
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Middle Channel / 1RB



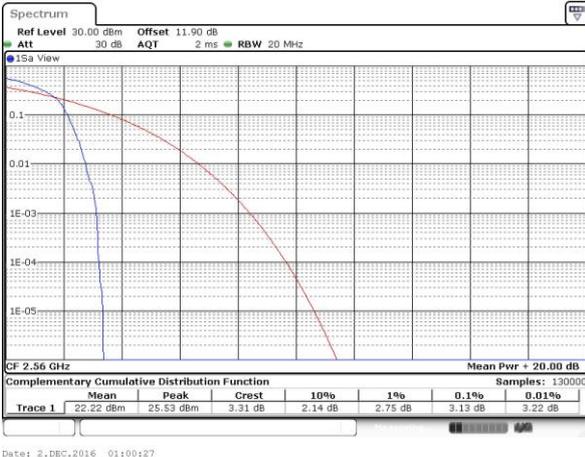
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Middle Channel / Full RB



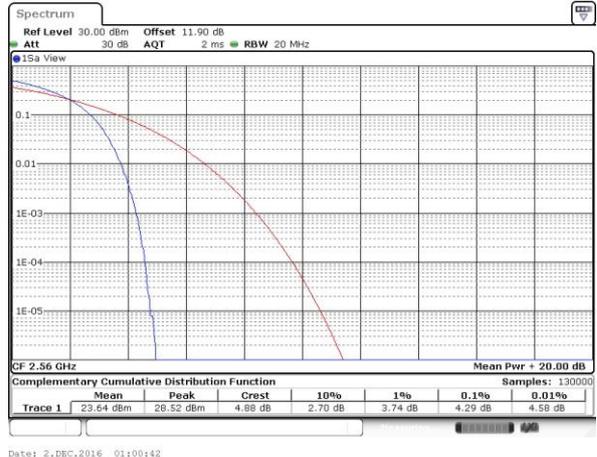
Date: 2.DEC.2016 01:00:16

Highest Channel / 1RB



Date: 2.DEC.2016 01:00:27

Highest Channel / Full RB



Date: 2.DEC.2016 01:00:42



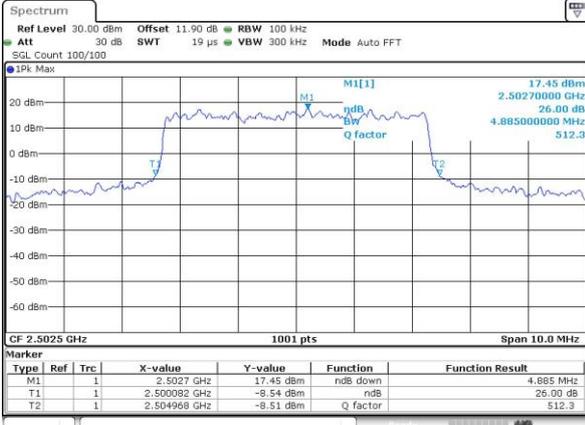
**26dB Bandwidth**

| Mode       | LTE Band 7 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| BW         | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 4.89 | 4.97  | 9.79  | 10.05 | 14.84 | 14.27 | 20.46 | 22.54 |
| Middle CH  | -                         | -     | -    | -     | 4.96 | 5.01  | 9.77  | 9.93  | 14.69 | 14.90 | 20.26 | 20.30 |
| Highest CH | -                         | -     | -    | -     | 4.92 | 4.96  | 9.89  | 9.89  | 14.39 | 14.78 | 20.38 | 22.02 |



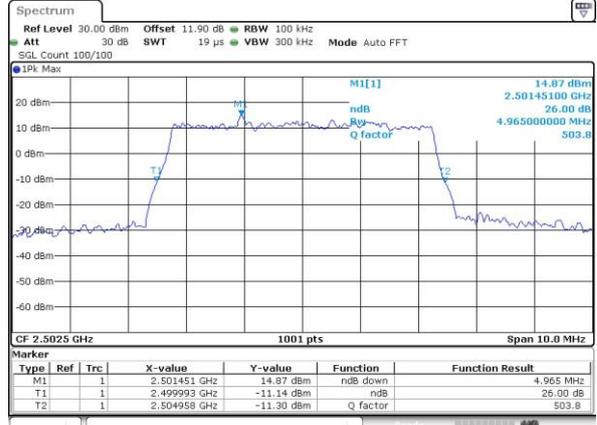
LTE Band 7

Lowest Channel / 5MHz / QPSK



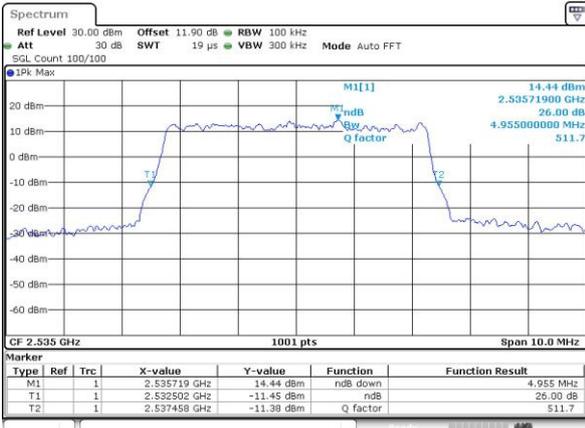
Date: 2.DEC.2016 01:03:42

Lowest Channel / 5MHz / 16QAM



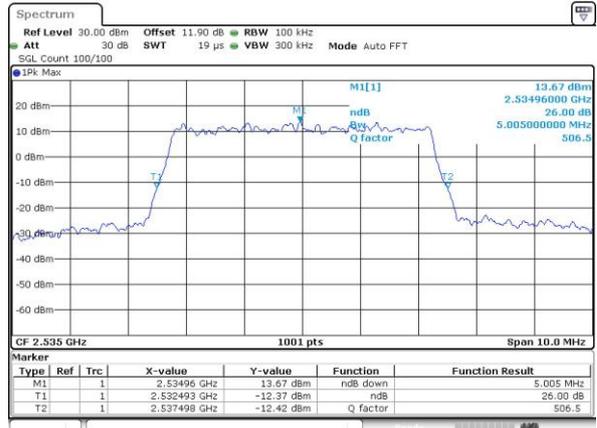
Date: 1.DEC.2016 23:41:28

Middle Channel / 5MHz / QPSK



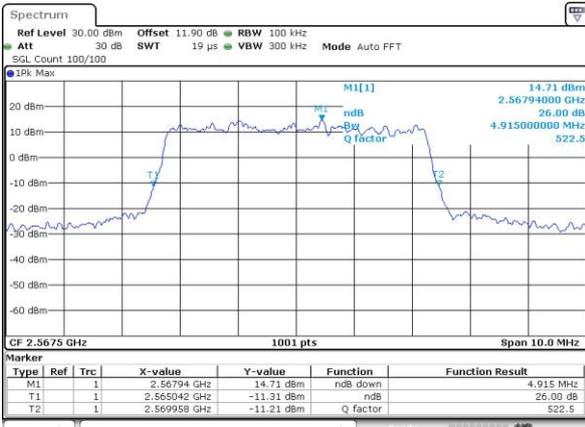
Date: 1.DEC.2016 23:48:38

Middle Channel / 5MHz / 16QAM



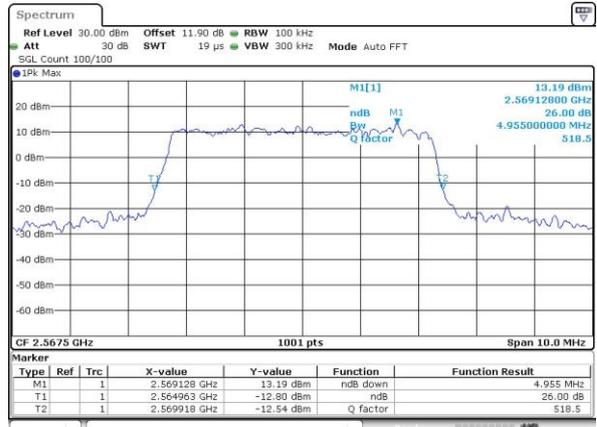
Date: 1.DEC.2016 23:48:49

Highest Channel / 5MHz / QPSK



Date: 1.DEC.2016 23:51:20

Highest Channel / 5MHz / 16QAM

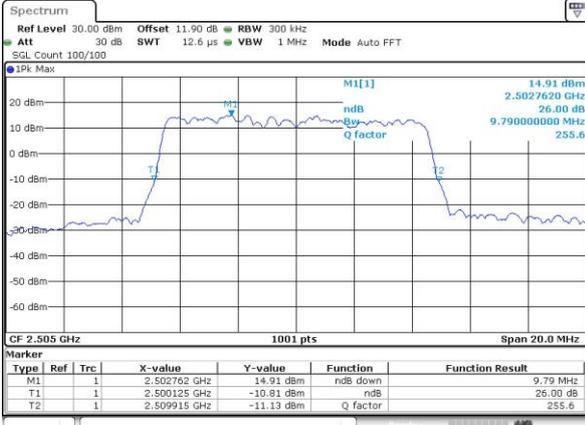


Date: 1.DEC.2016 23:51:31



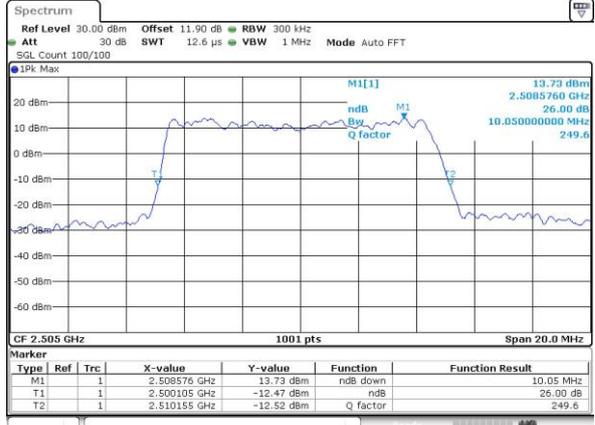
LTE Band 7

Lowest Channel / 10MHz / QPSK



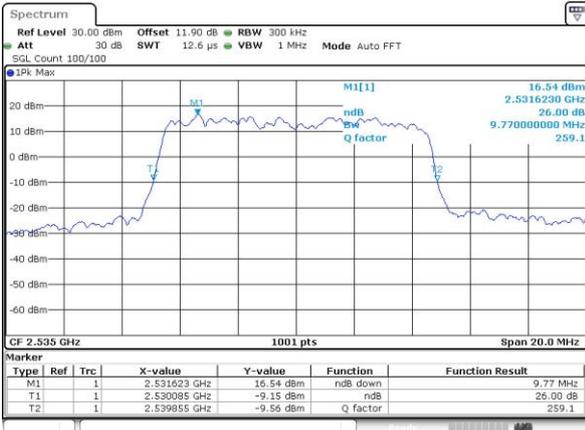
Date: 1.DEC.2016 23:58:42

Lowest Channel / 10MHz / 16QAM



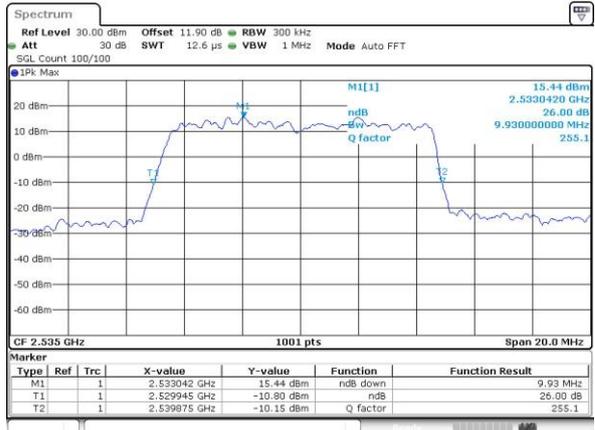
Date: 1.DEC.2016 23:58:53

Middle Channel / 10MHz / QPSK



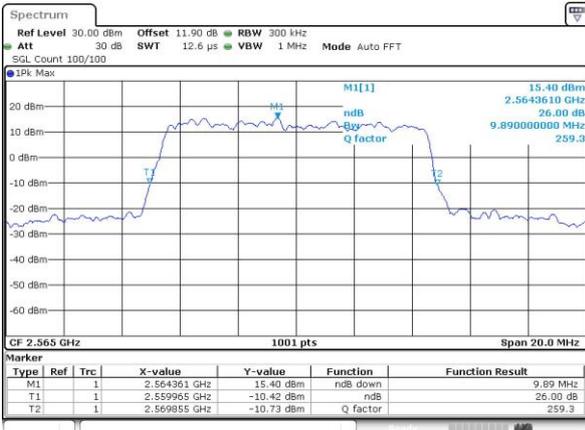
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Middle Channel / 10MHz / 16QAM



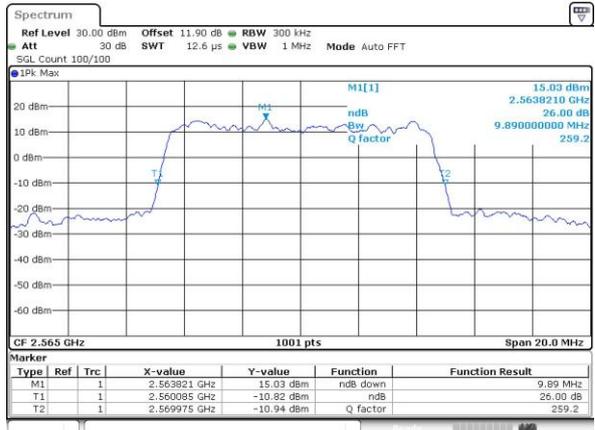
Date: 2.DEC.2016 00:06:15

Highest Channel / 10MHz / QPSK



Date: 2.DEC.2016 00:08:46

Highest Channel / 10MHz / 16QAM

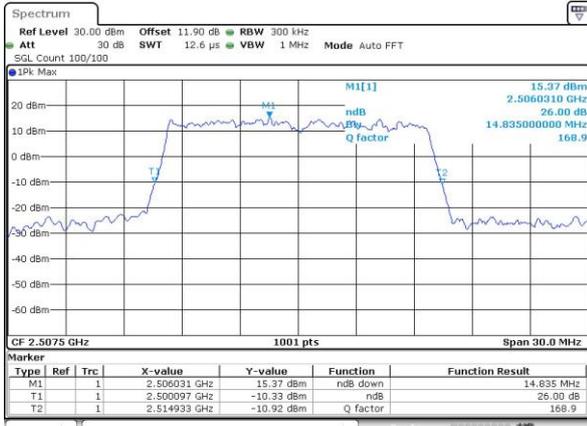


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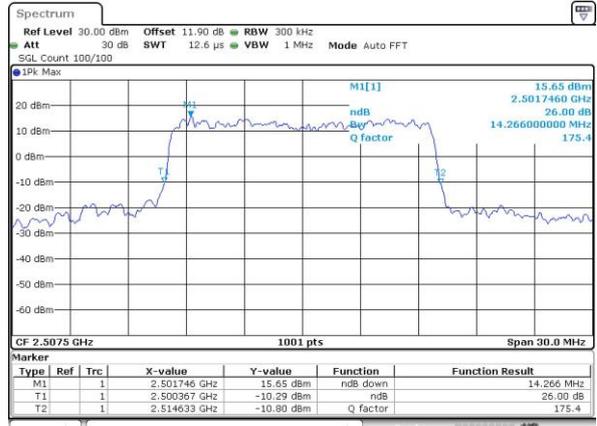
LTE Band 7

Lowest Channel / 15MHz / QPSK



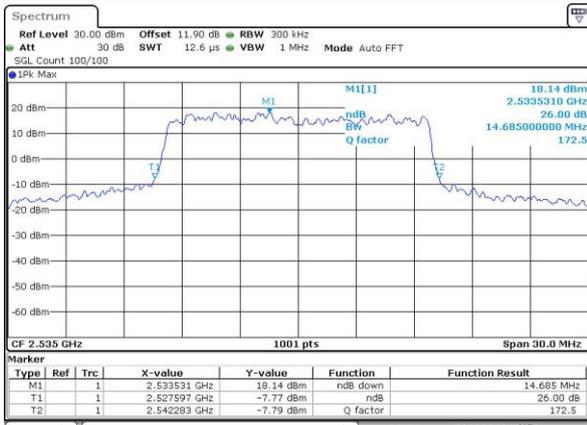
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Lowest Channel / 15MHz / 16QAM



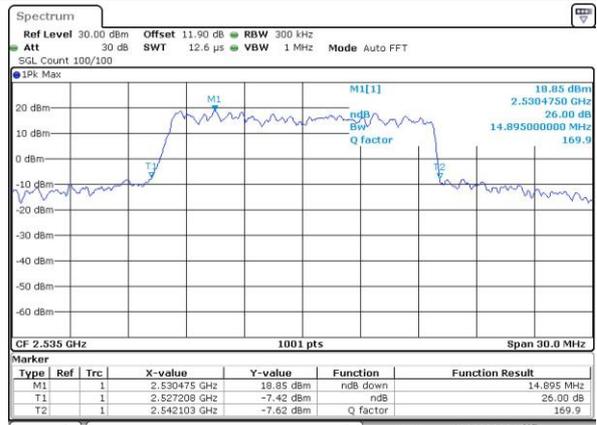
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Middle Channel / 15MHz / QPSK



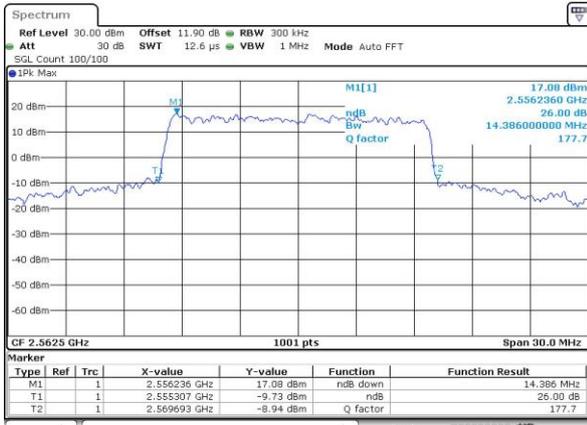
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Middle Channel / 15MHz / 16QAM



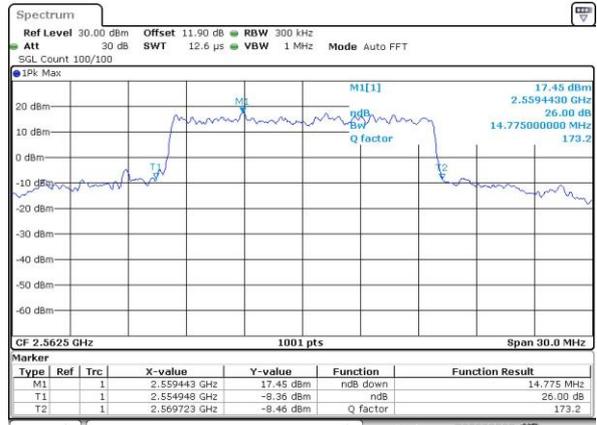
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Highest Channel / 15MHz / QPSK



Date: 2.DEC.2016 00:26:14

Highest Channel / 15MHz / 16QAM

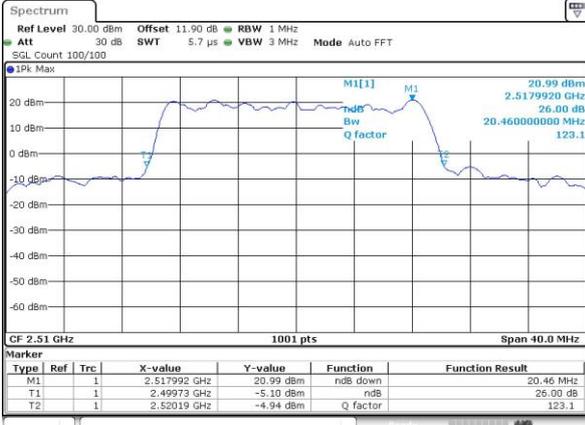


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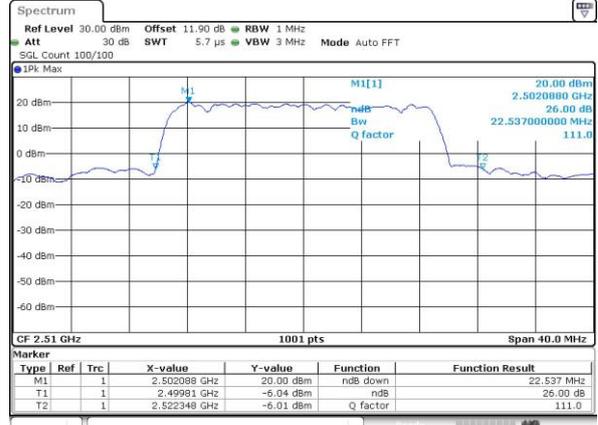
LTE Band 7

Lowest Channel / 20MHz / QPSK



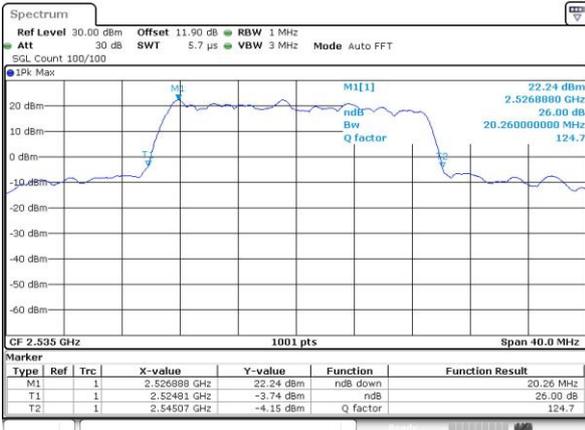
Date: 2.DEC.2016 00:39:45

Lowest Channel / 20MHz / 16QAM



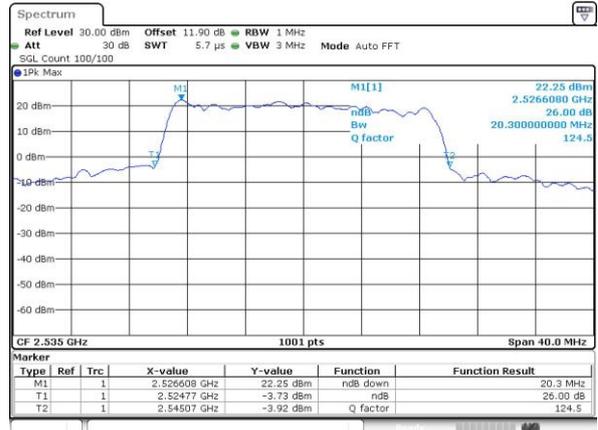
Date: 2.DEC.2016 00:39:56

Middle Channel / 20MHz / QPSK



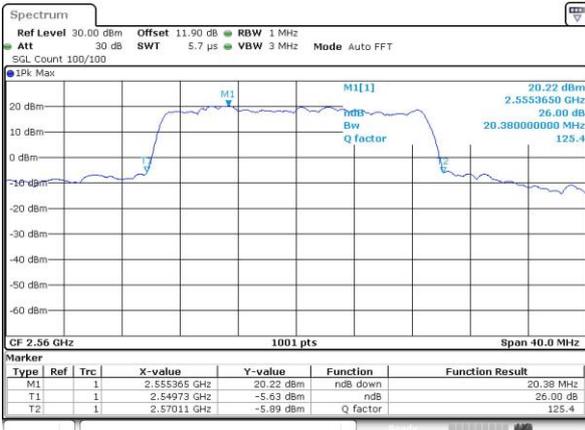
Date: 2.DEC.2016 00:47:06

Middle Channel / 20MHz / 16QAM



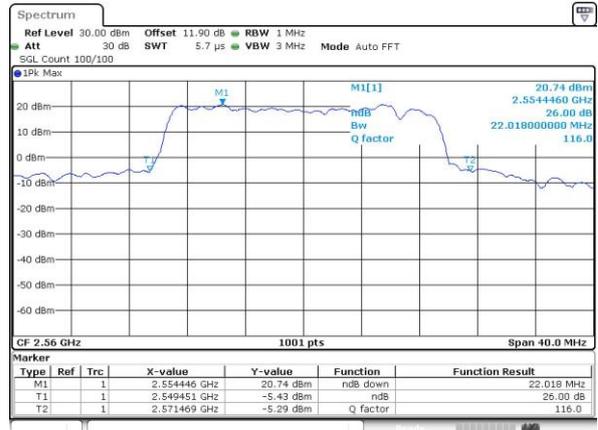
Date: 2.DEC.2016 00:47:16

Highest Channel / 20MHz / QPSK



Date: 2.DEC.2016 00:49:49

Highest Channel / 20MHz / 16QAM



Date: 2.DEC.2016 00:50:00



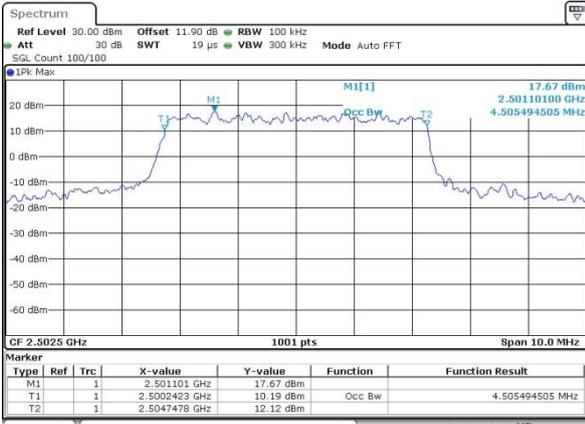
### Occupied Bandwidth

| 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 |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.51 | 4.51  | 9.09  | 9.07  | 13.55 | 13.49 | 18.38 | 18.5  |
| Middle CH  | -                        | -     | -    | -     | 4.49 | 4.46  | 9.07  | 9.07  | 13.55 | 13.61 | 18.34 | 18.38 |
| Highest CH | -                        | -     | -    | -     | 4.52 | 4.5   | 9.07  | 9.05  | 13.49 | 13.52 | 18.54 | 18.58 |



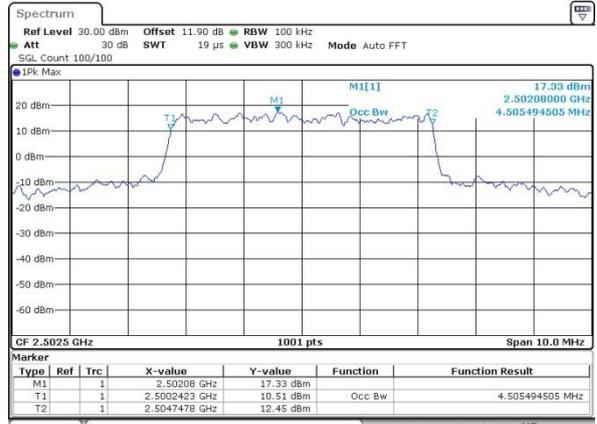
LTE Band 7

Lowest Channel / 5MHz / QPSK



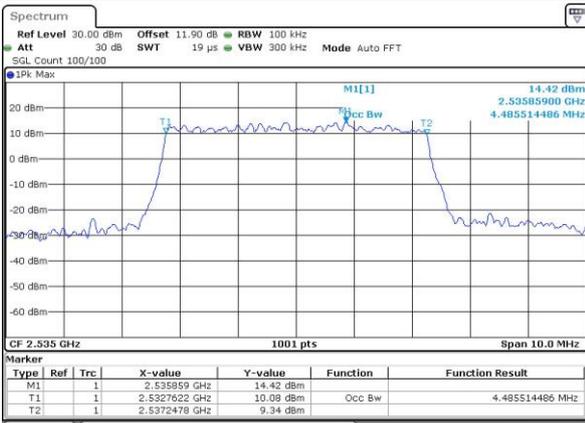
Date: 2.DBC.2016 01:04:23

Lowest Channel / 5MHz / 16QAM



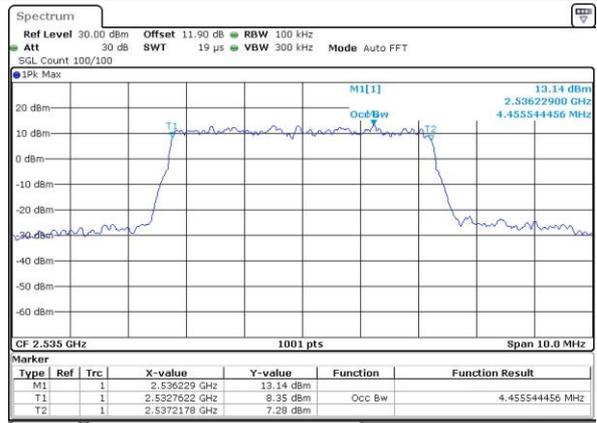
Date: 2.DBC.2016 01:05:13

Middle Channel / 5MHz / QPSK



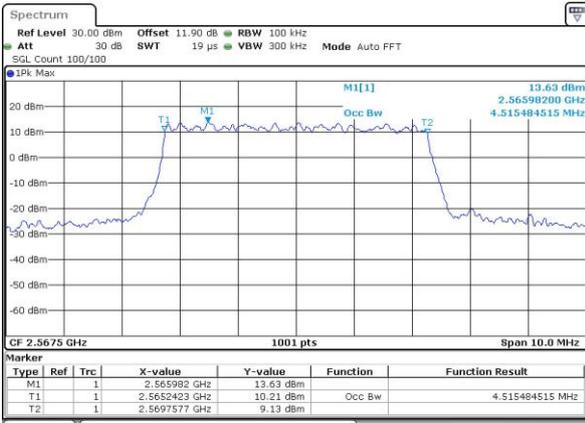
Date: 1.DBC.2016 23:48:14

Middle Channel / 5MHz / 16QAM



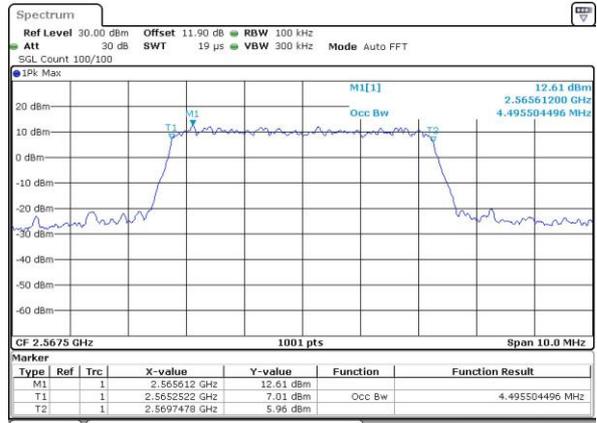
Date: 1.DBC.2016 23:48:26

Highest Channel / 5MHz / QPSK



Date: 1.DBC.2016 23:50:56

Highest Channel / 5MHz / 16QAM

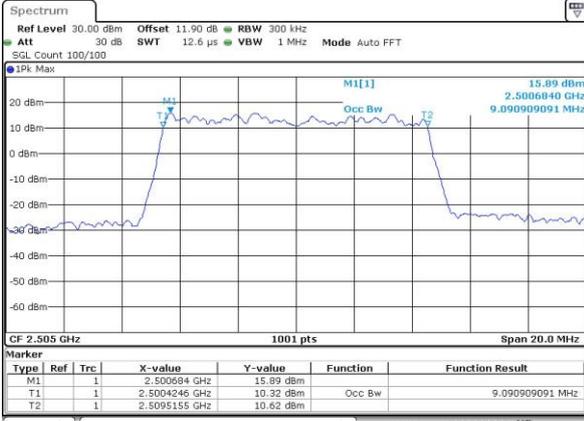


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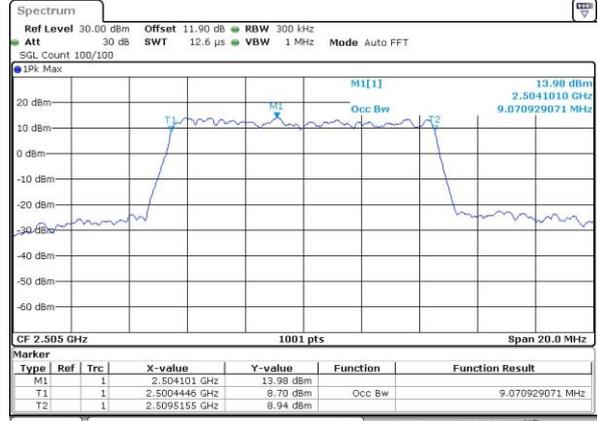
LTE Band 7

Lowest Channel / 10MHz / QPSK



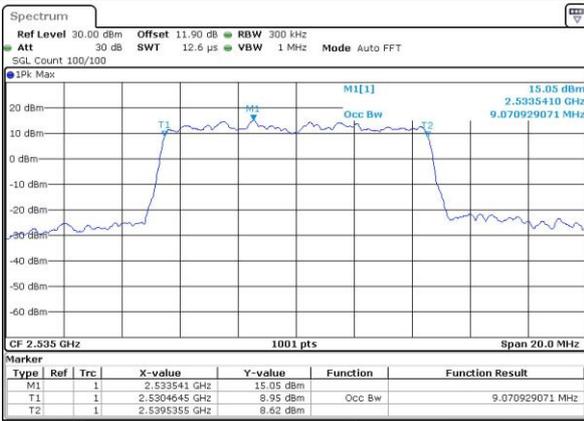
Date: 1.DEC.2016 23:58:18

Lowest Channel / 10MHz / 16QAM



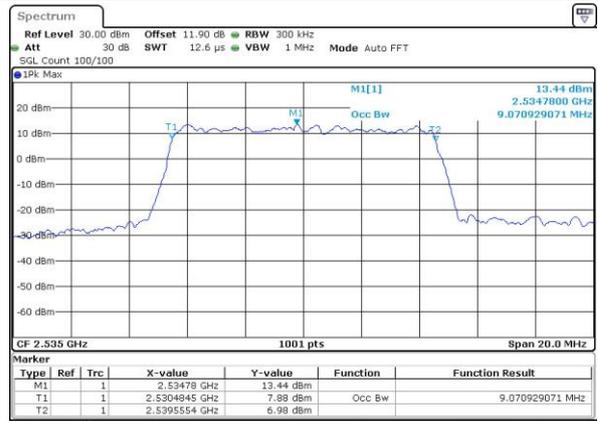
Date: 1.DEC.2016 23:58:30

Middle Channel / 10MHz / QPSK



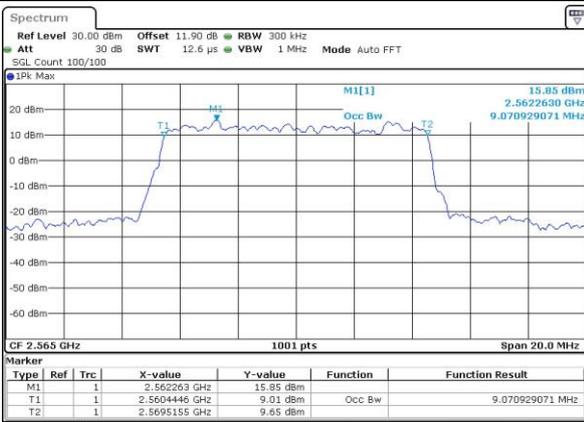
Date: 2.DEC.2016 00:05:40

Middle Channel / 10MHz / 16QAM



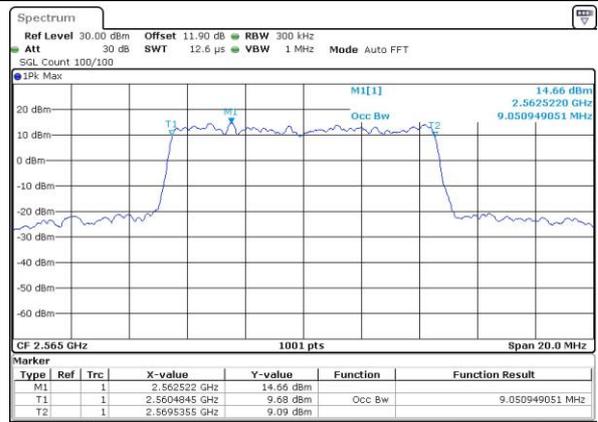
Date: 2.DEC.2016 00:05:52

Highest Channel / 10MHz / QPSK



Date: 2.DEC.2016 00:08:22

Highest Channel / 10MHz / 16QAM

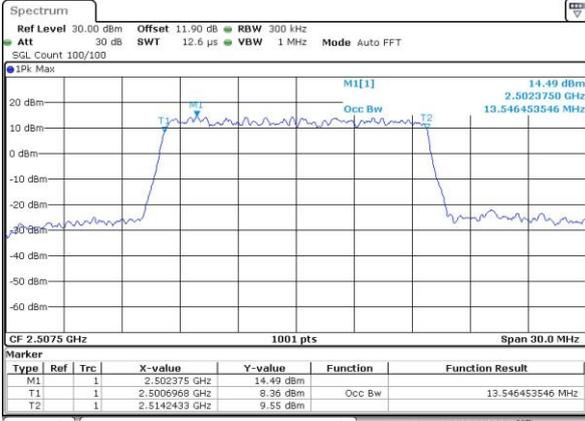


Date: 2.DEC.2016 00:08:34



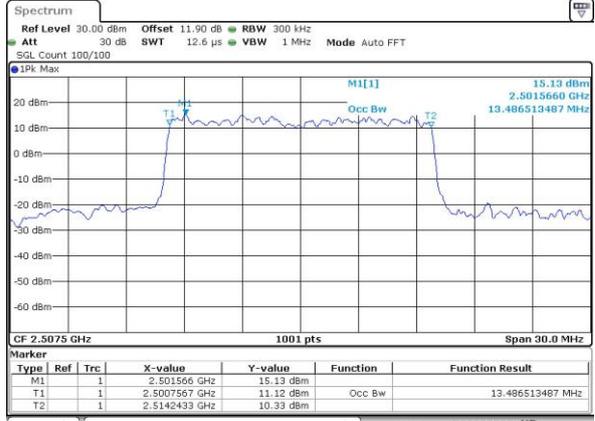
LTE Band 7

Lowest Channel / 15MHz / QPSK



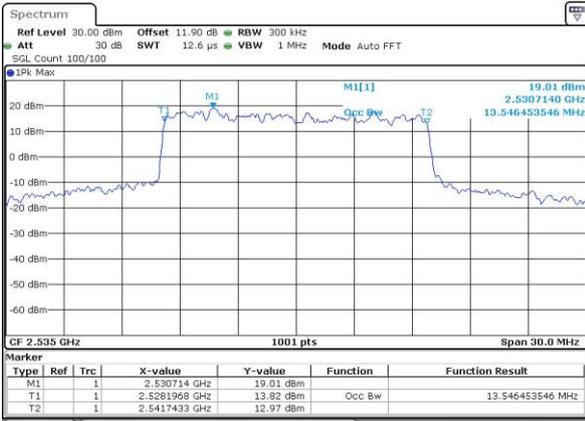
Date: 2.DEC.2016 00:15:45

Lowest Channel / 15MHz / 16QAM



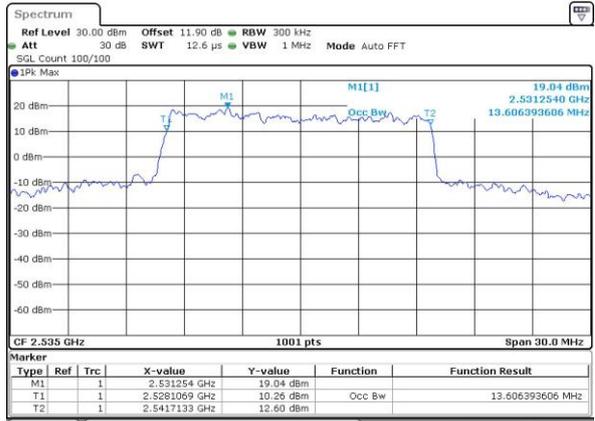
Date: 2.DEC.2016 00:15:56

Middle Channel / 15MHz / QPSK



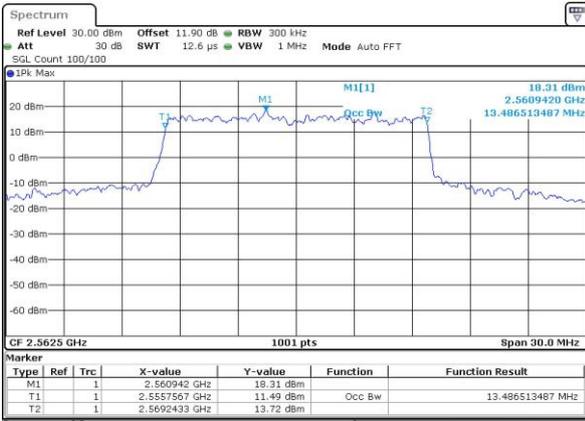
Date: 2.DEC.2016 00:23:07

Middle Channel / 15MHz / 16QAM



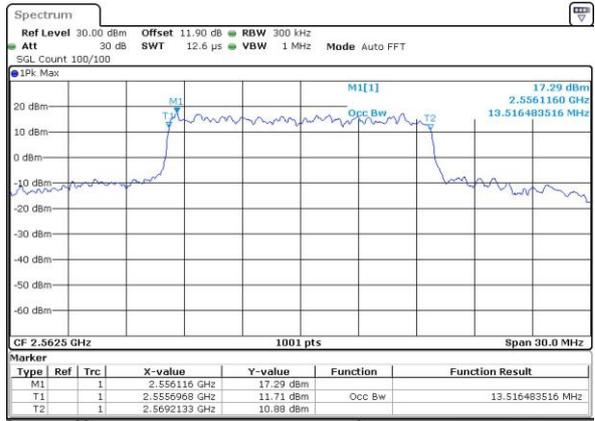
Date: 2.DEC.2016 00:23:19

Highest Channel / 15MHz / QPSK



Date: 2.DEC.2016 00:25:50

Highest Channel / 15MHz / 16QAM

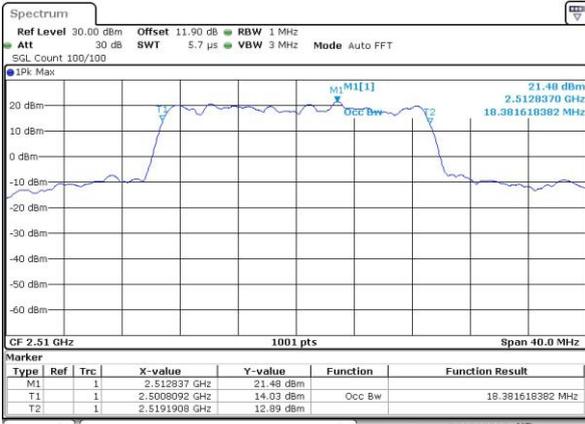


Date: 2.DEC.2016 00:26:02



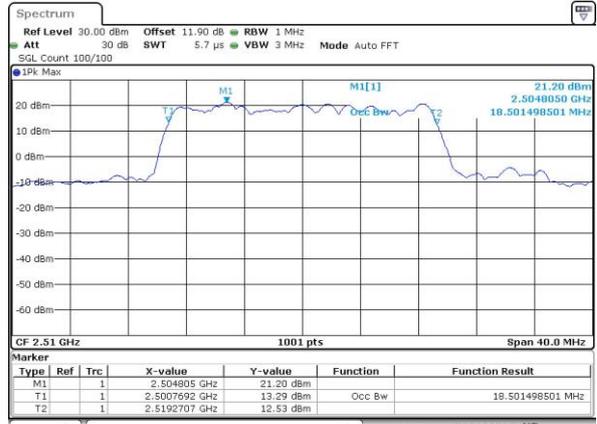
LTE Band 7

Lowest Channel / 20MHz / QPSK



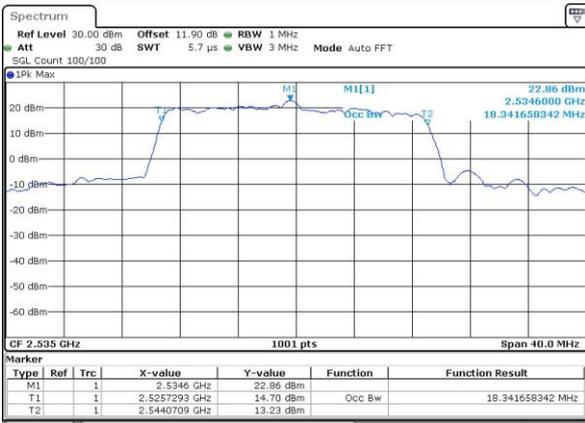
Date: 2.DEC.2016 00:39:21

Lowest Channel / 20MHz / 16QAM



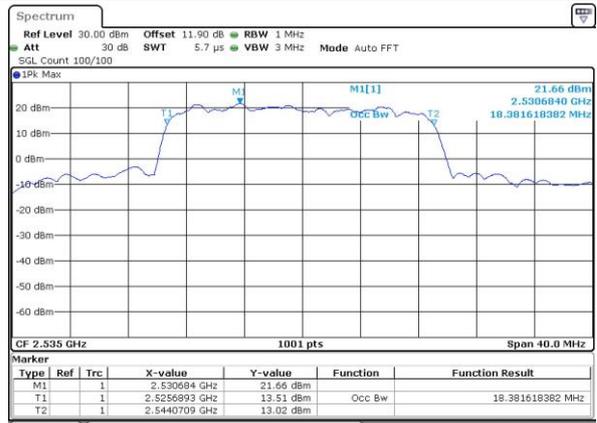
Date: 2.DEC.2016 00:39:33

Middle Channel / 20MHz / QPSK



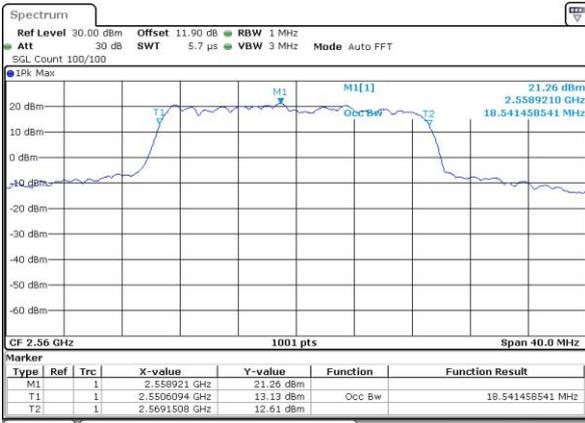
Date: 2.DEC.2016 00:46:43

Middle Channel / 20MHz / 16QAM



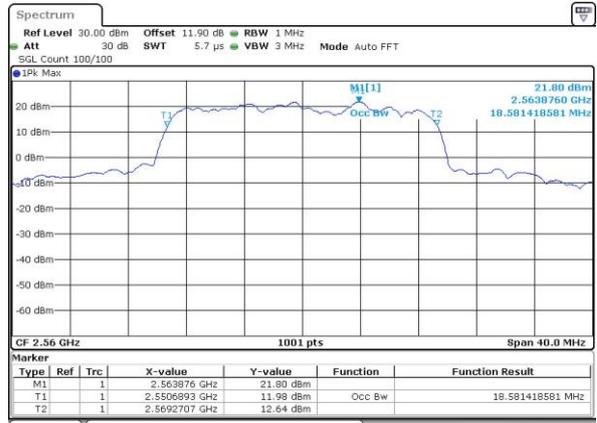
Date: 2.DEC.2016 00:46:55

Highest Channel / 20MHz / QPSK



Date: 2.DEC.2016 00:49:25

Highest Channel / 20MHz / 16QAM



Date: 2.DEC.2016 00:49:37



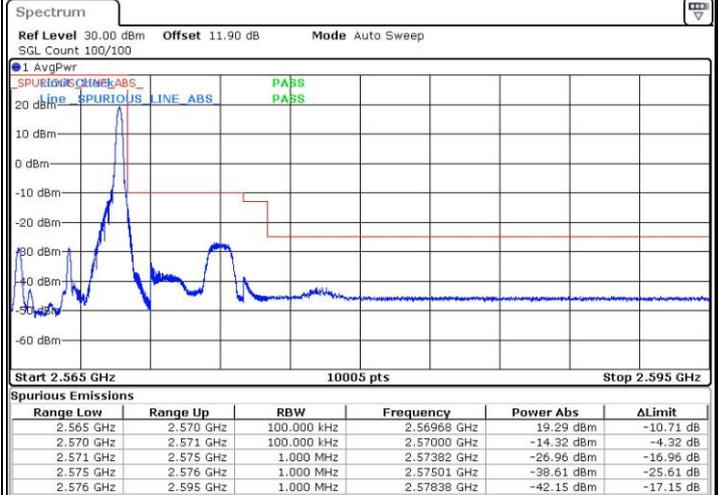
# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

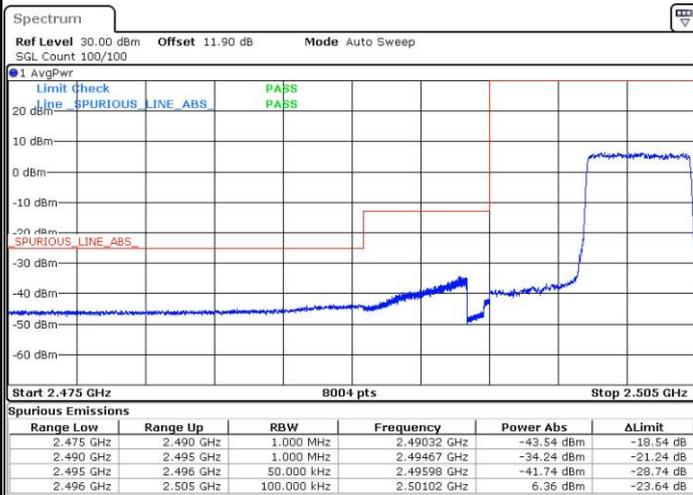
### Lowest Band Edge / 1 RB



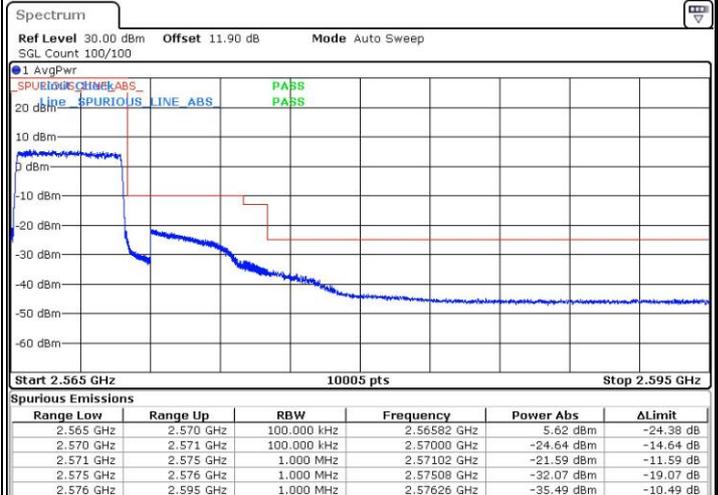
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB

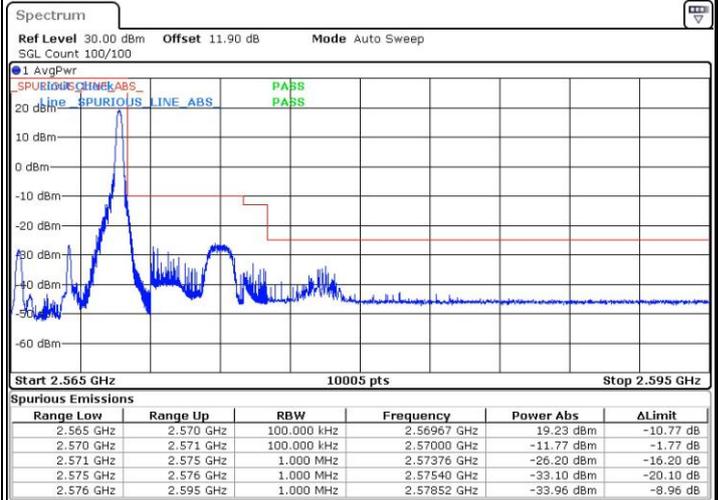
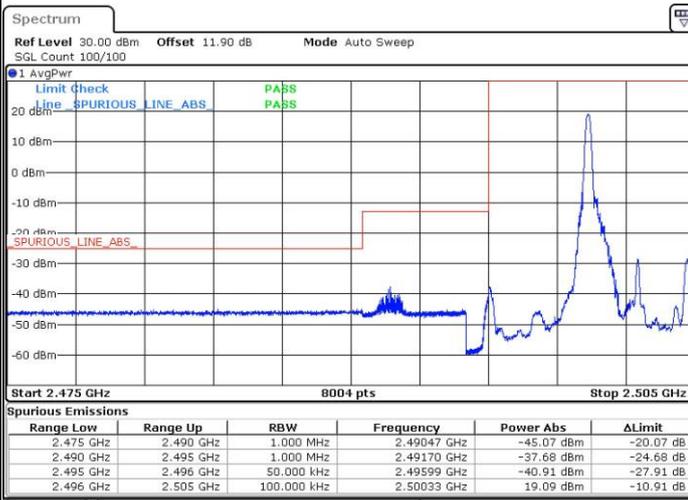




LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

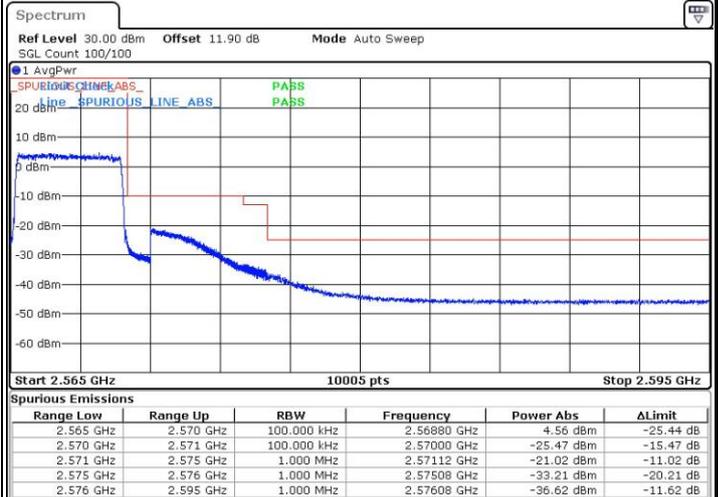
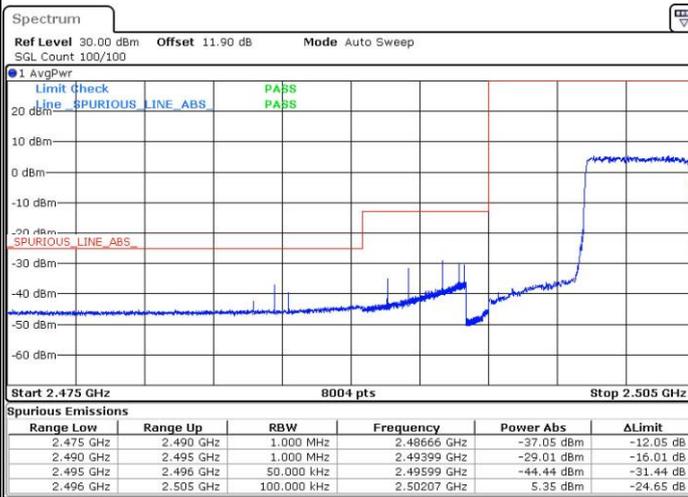


Date: 1.DEC.2016 23:43:47

Date: 1.DEC.2016 23:53:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.DEC.2016 23:46:07

Date: 1.DEC.2016 23:56:11



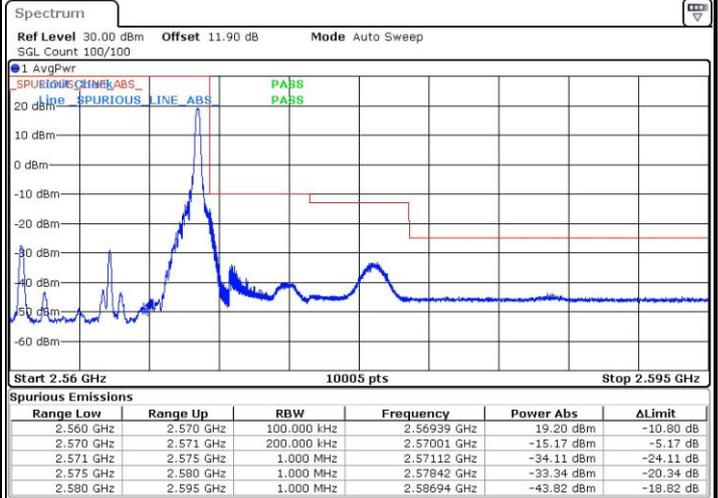
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



Date: 2.DEC.2016 00:00:03

Highest Band Edge / 1 RB



Date: 2.DEC.2016 00:10:07

Lowest Band Edge / Full RB



Date: 2.DEC.2016 00:02:23

Highest Band Edge / Full RB

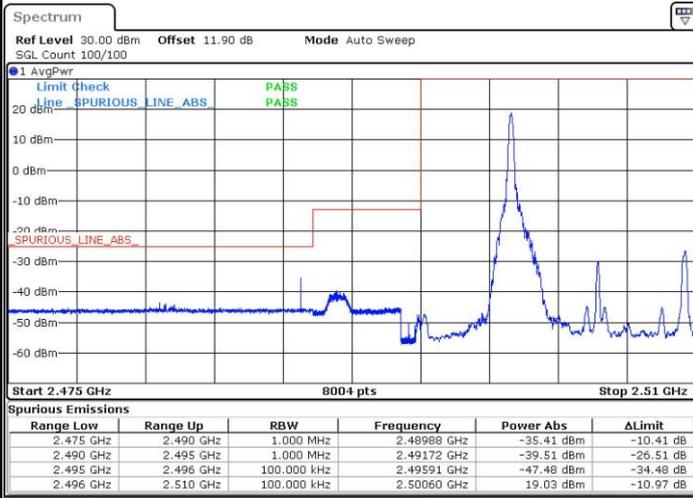


Date: 2.DEC.2016 00:12:27



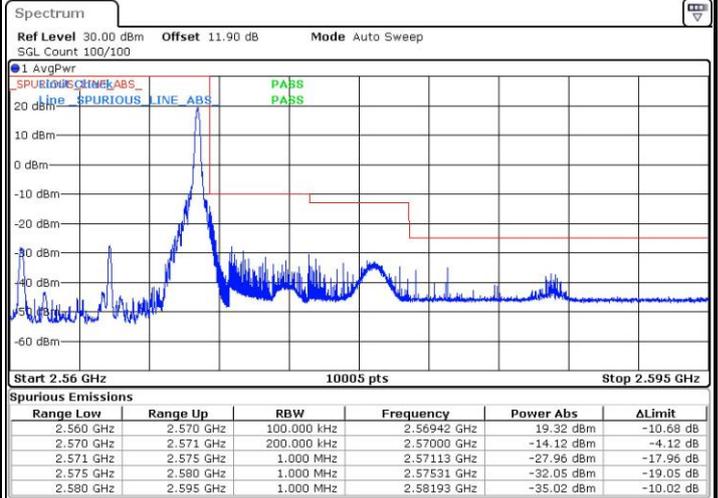
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 2.DEC.2016 00:01:13

Highest Band Edge / 1 RB



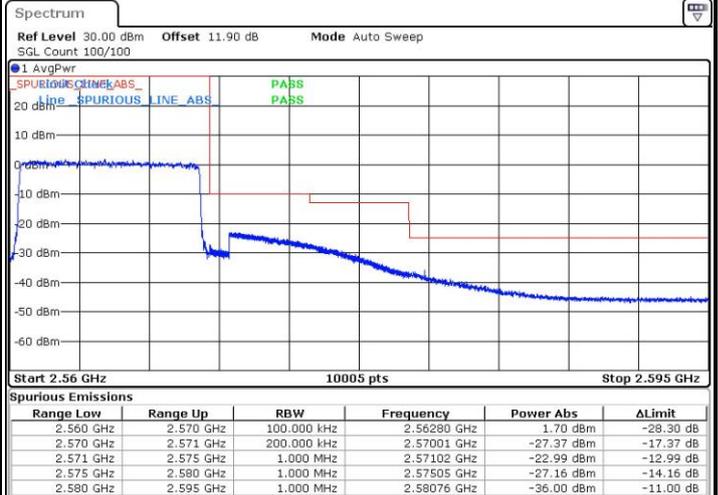
Date: 2.DEC.2016 00:11:17

Lowest Band Edge / Full RB



Date: 2.DEC.2016 00:03:33

Highest Band Edge / Full RB



Date: 2.DEC.2016 00:13:37