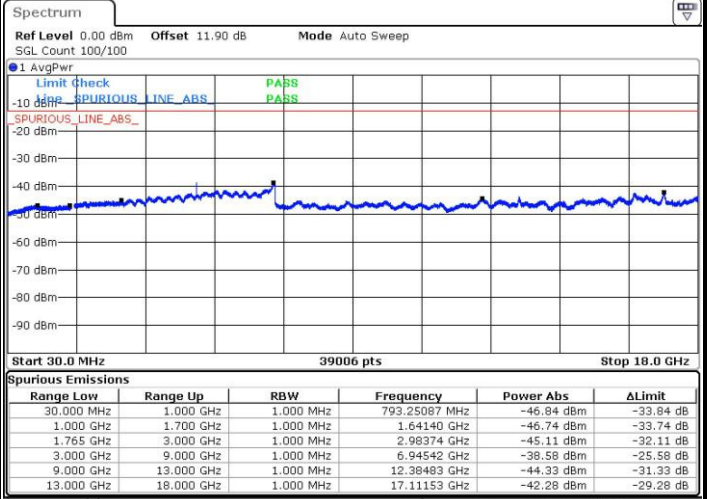
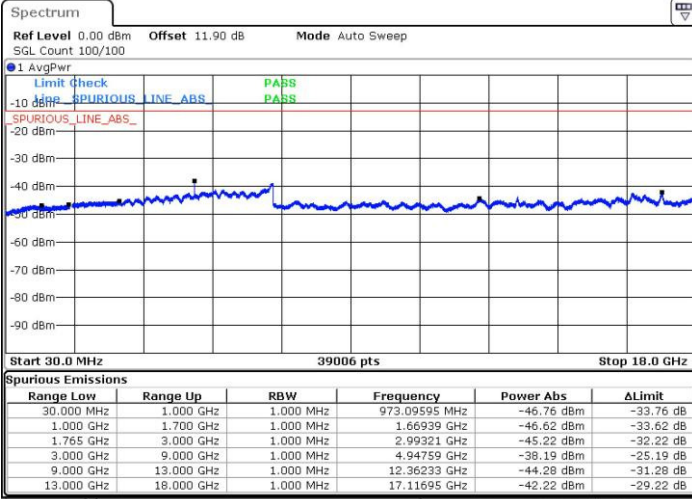




LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

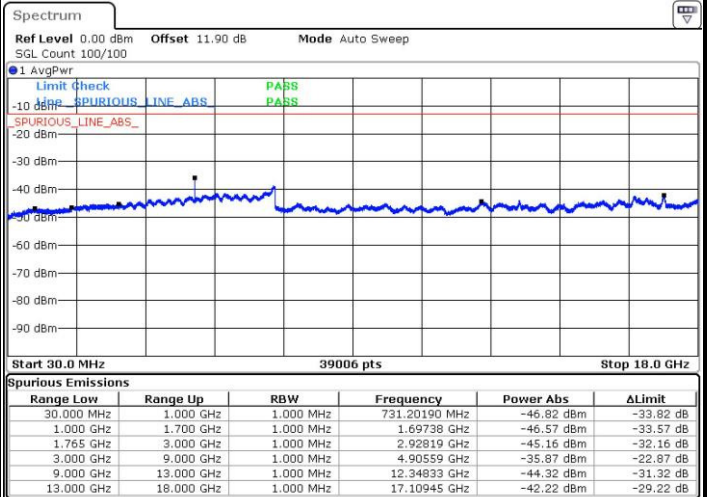
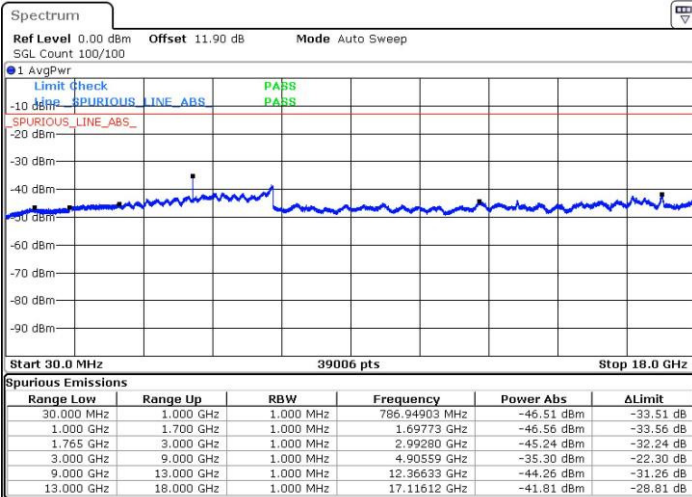


Date: 10.FEB.2016 09:50:27

Date: 10.FEB.2016 09:51:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.FEB.2016 09:57:48

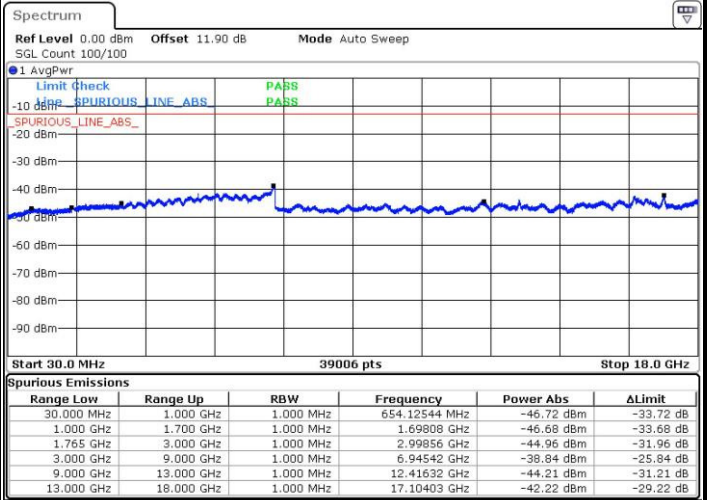
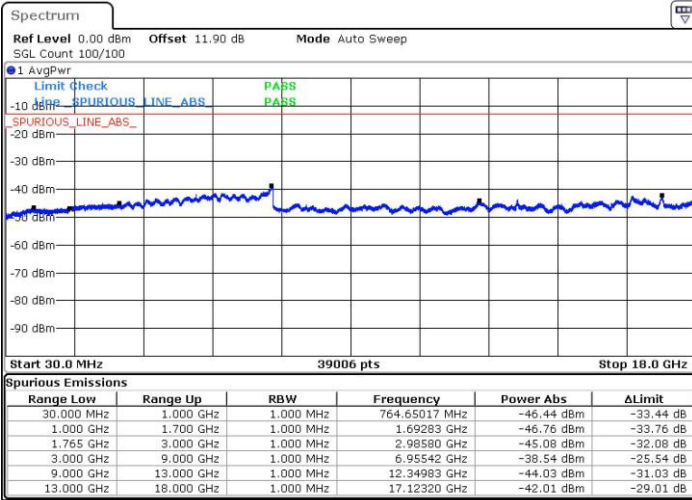
Date: 10.FEB.2016 09:58:46



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

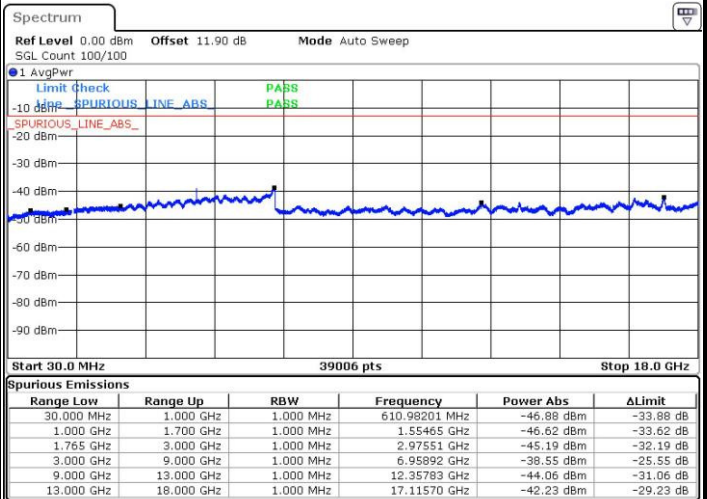
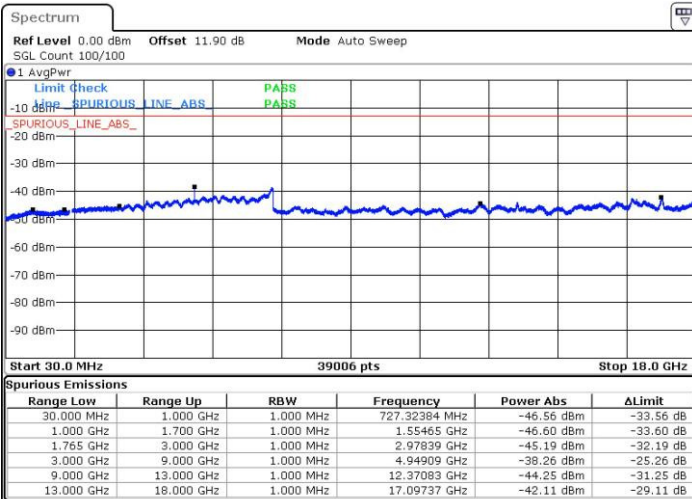


Date: 10.FEB.2016 10:05:09

Date: 10.FEB.2016 10:06:07

Middle Channel / QPSK

Middle Channel / 16QAM



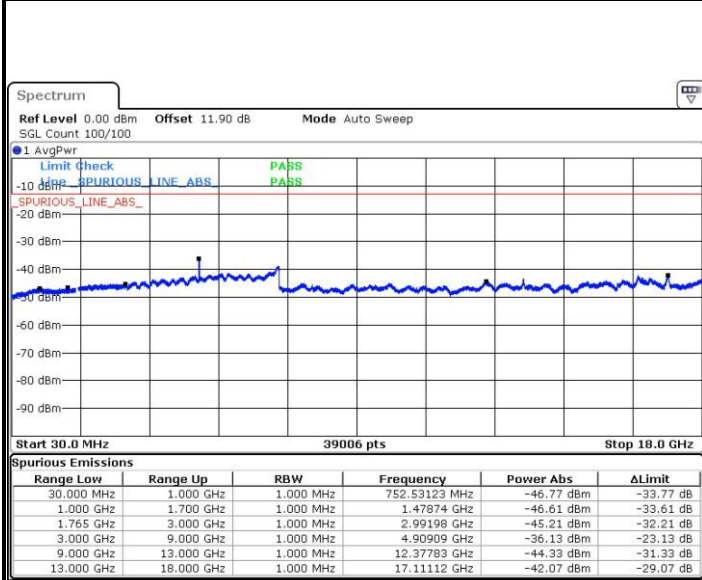
Date: 10.FEB.2016 10:07:52

Date: 10.FEB.2016 10:08:50



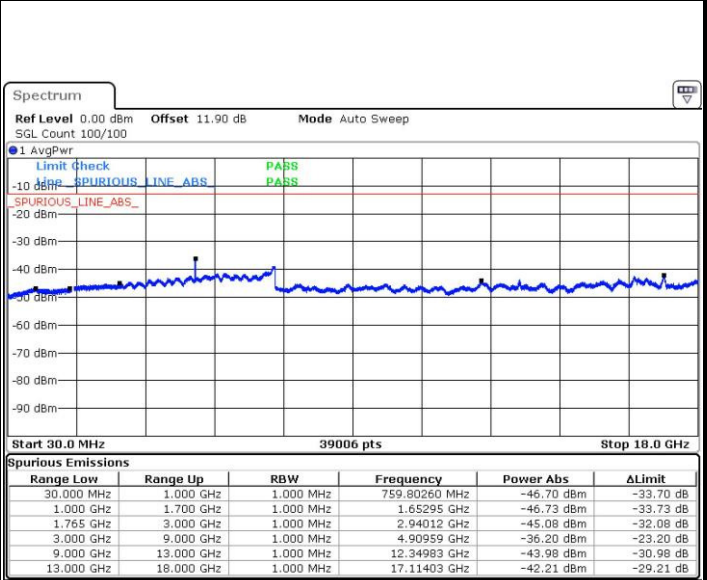
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 10.FEB.2016 10:15:13

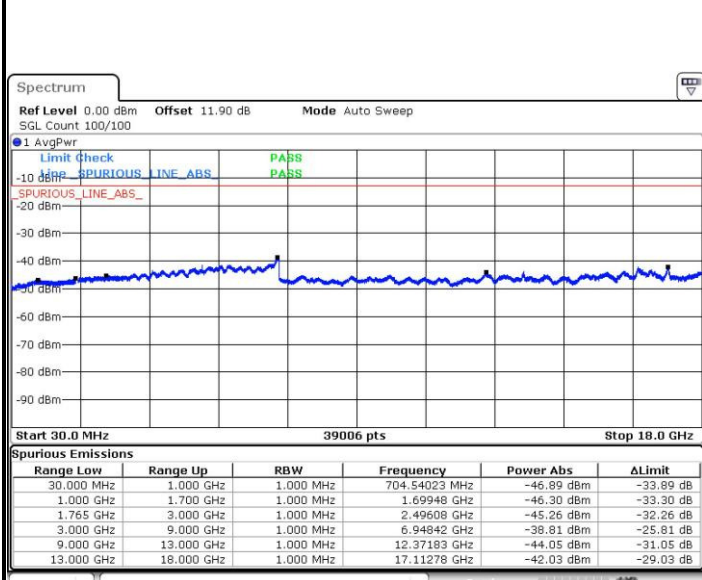
Highest Channel / 16QAM



Date: 10.FEB.2016 10:16:11

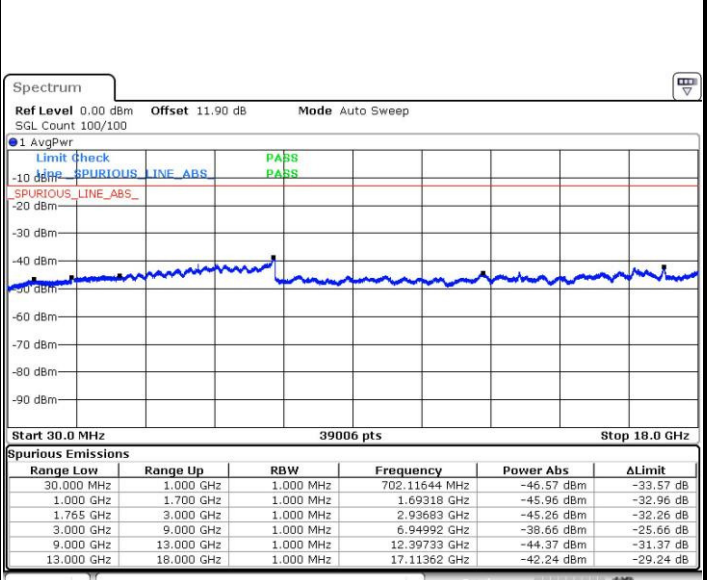
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 10.FEB.2016 10:22:33

Lowest Channel / 16QAM



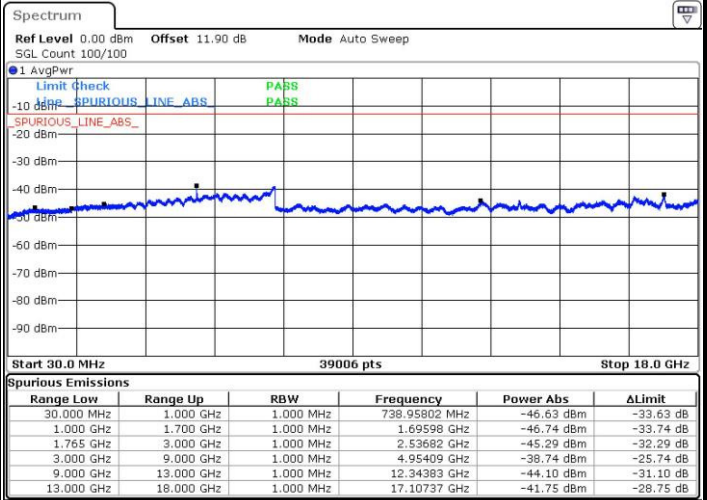
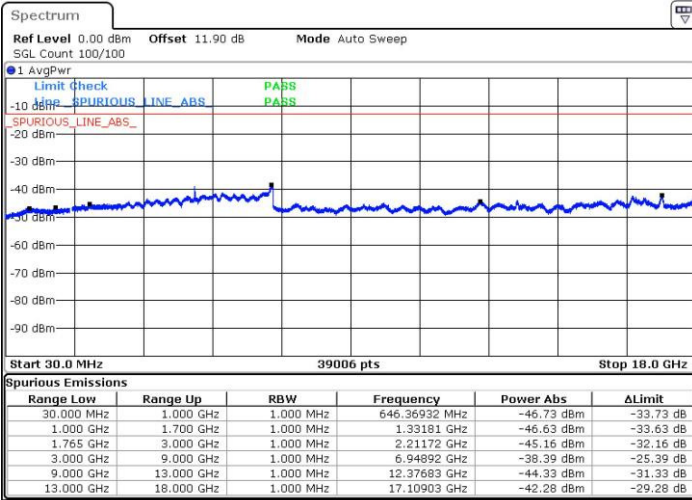
Date: 10.FEB.2016 10:23:31



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

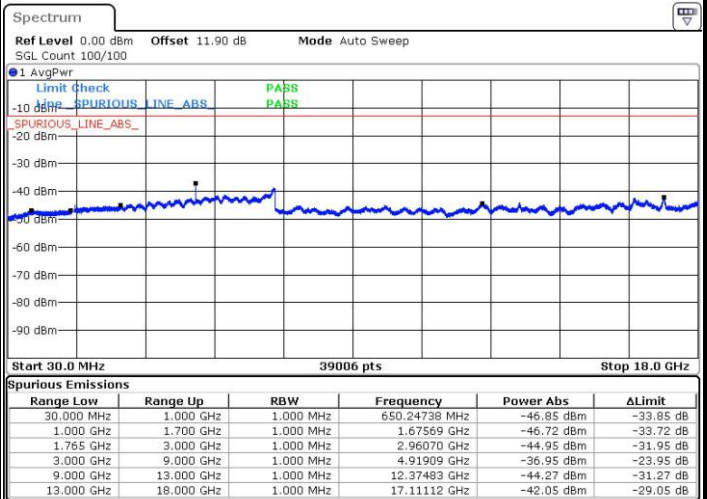
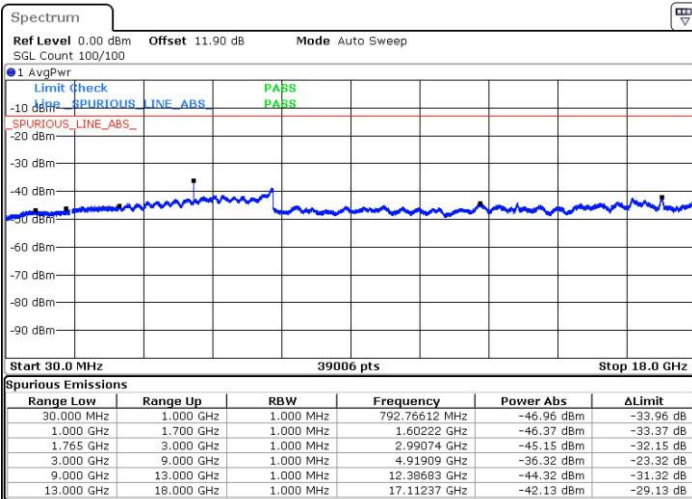


Date: 10.FEB.2016 10:25:17

Date: 10.FEB.2016 10:26:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.FEB.2016 10:32:38

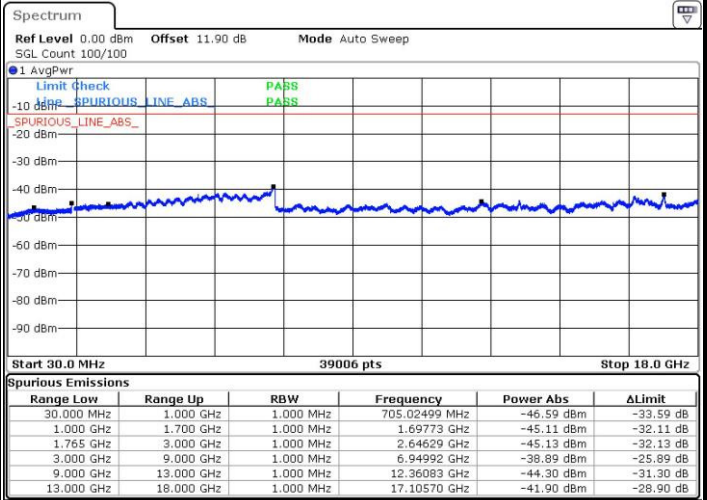
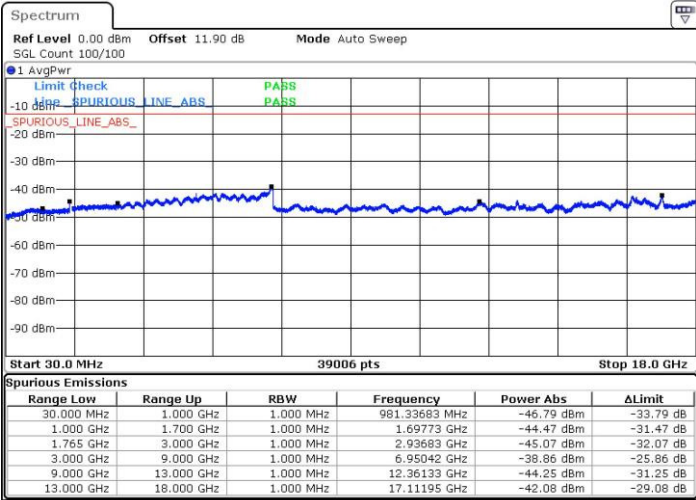
Date: 10.FEB.2016 10:33:36



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

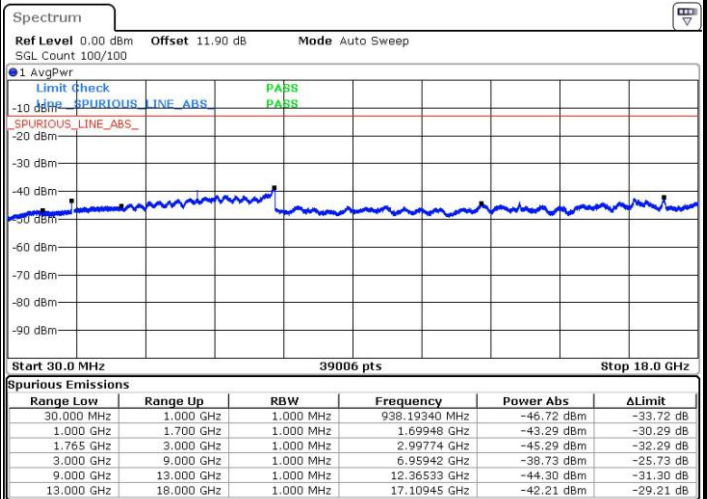
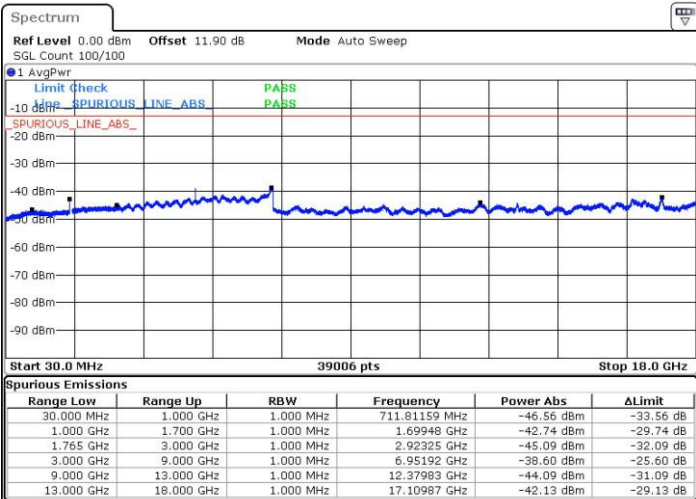


Date: 10.FEB.2016 10:39:59

Date: 10.FEB.2016 10:40:57

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 10.FEB.2016 10:42:42

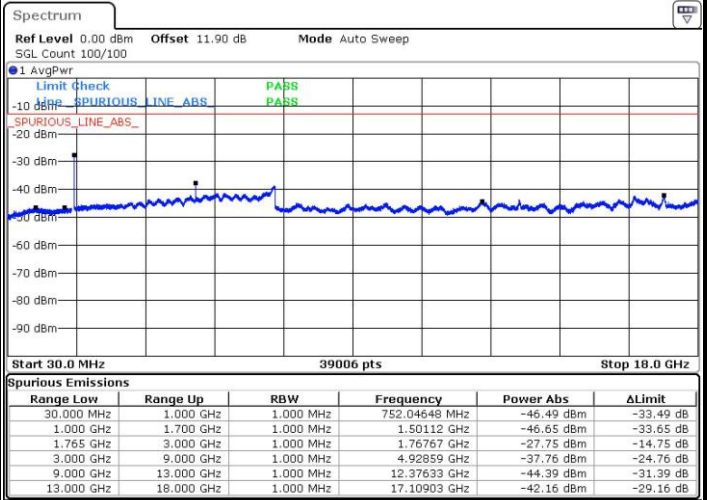
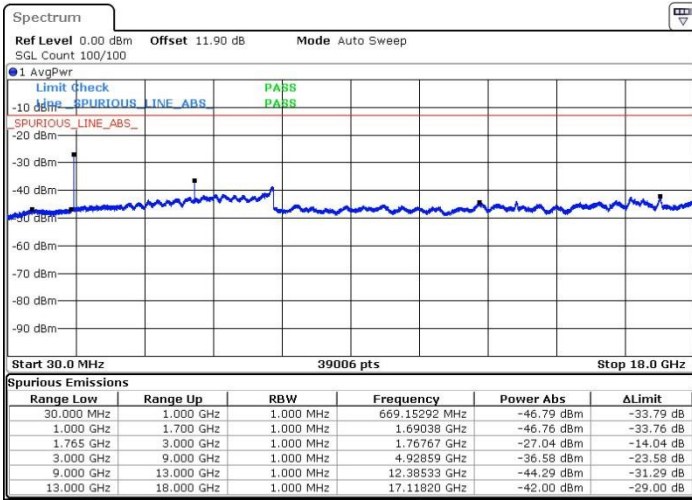
Date: 10.FEB.2016 10:43:40



LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



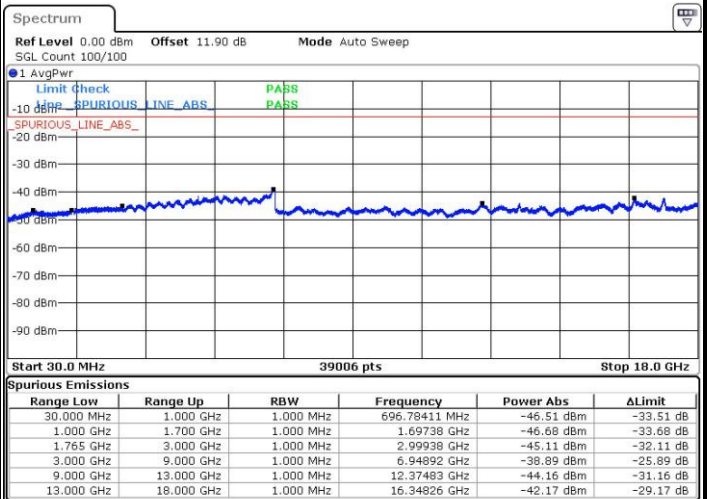
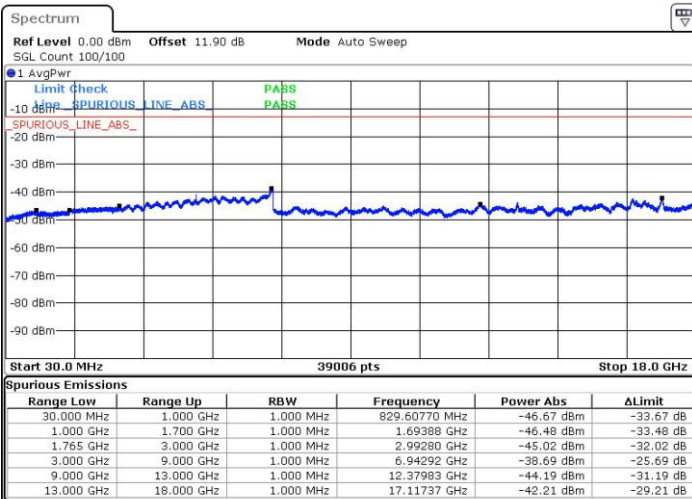
Date: 10.FEB.2016 10:50:11

Date: 10.FEB.2016 10:51:12

LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 10.FEB.2016 10:57:36

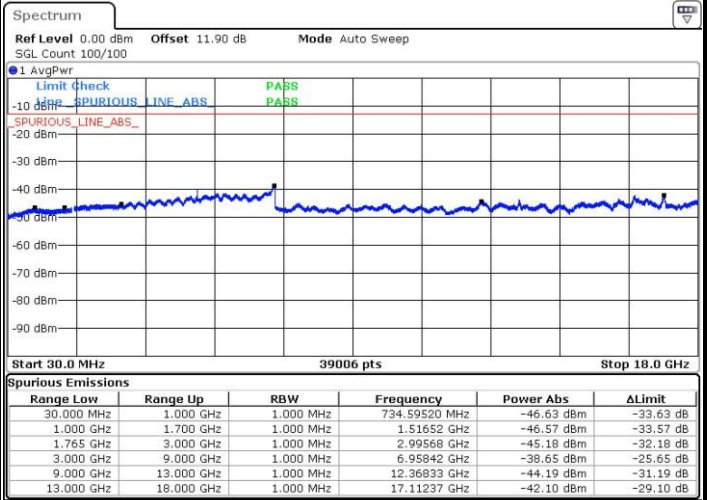
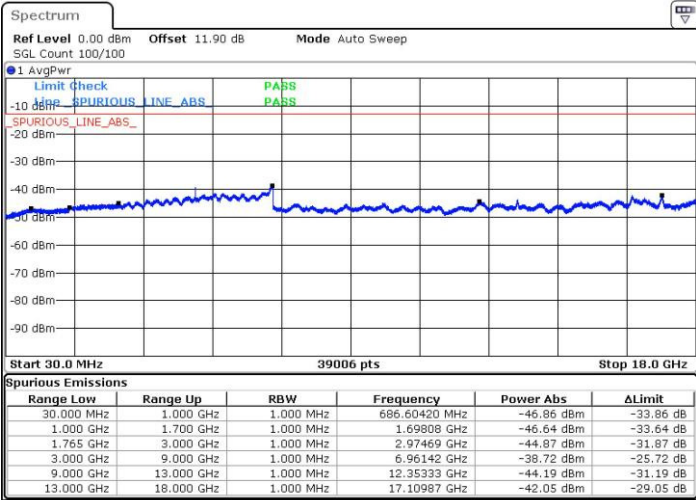
Date: 10.FEB.2016 10:58:34



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

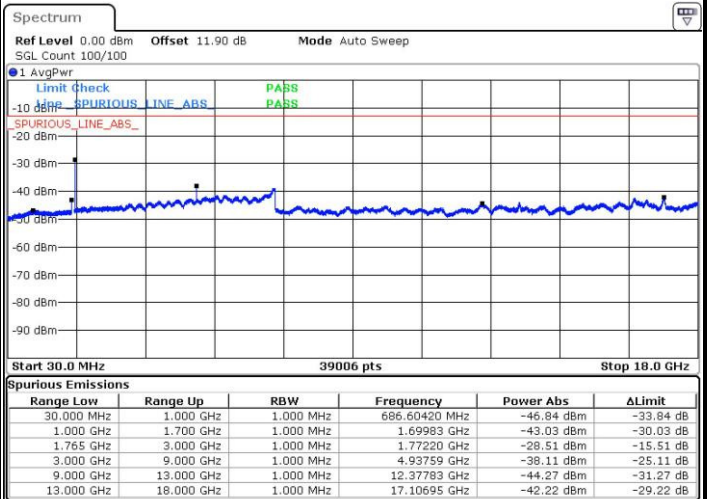
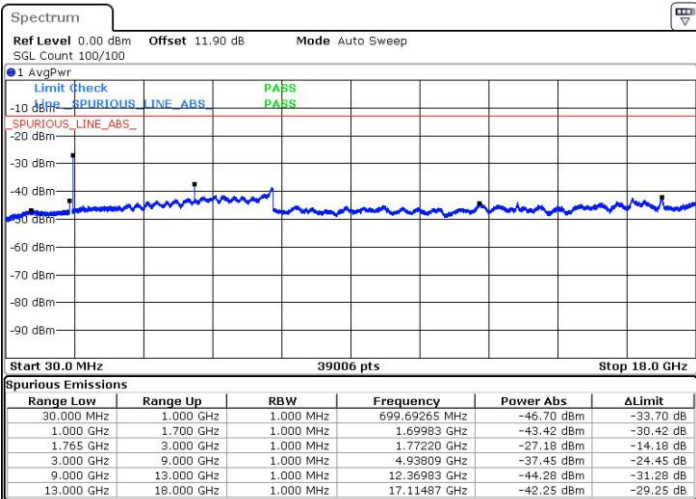


Date: 10.FEB.2016 11:00:21

Date: 10.FEB.2016 11:01:19

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.FEB.2016 11:07:42

Date: 10.FEB.2016 11:08:40



Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0054 | PASS |
| 40 | Normal Voltage | 0.0045 | |
| 30 | Normal Voltage | 0.0046 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0046 | |
| 0 | Normal Voltage | 0.0043 | |
| -10 | Normal Voltage | 0.0047 | |
| -20 | Normal Voltage | 0.0001 | |
| -30 | Normal Voltage | 0.0002 | |
| 20 | Maximum Voltage | 0.0011 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0054 | |

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

| Mode | LTE Band 5 / 10MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 5.16 | 5.45 | 6.2 | 6.26 | PASS |
| Middle CH | 5.22 | 5.3 | 6.23 | 6.2 | |
| Highest CH | 4.9 | 5.39 | 6.03 | 6.12 | |



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 10.FEB.2016 13:48:13

Lowest Channel / Full RB



Date: 10.FEB.2016 13:48:44

Middle Channel / 1RB



Date: 10.FEB.2016 13:49:01

Middle Channel / Full RB



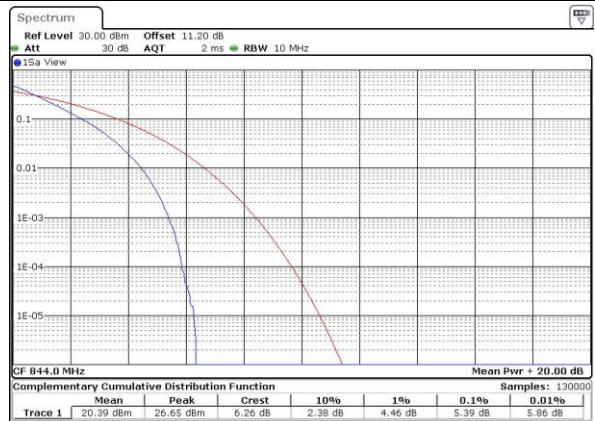
Date: 10.FEB.2016 13:49:18

Highest Channel / 1RB



Date: 10.FEB.2016 13:49:34

Highest Channel / Full RB

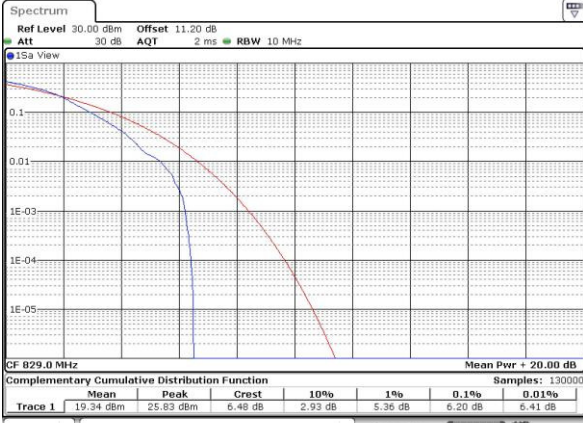


Date: 10.FEB.2016 13:49:51



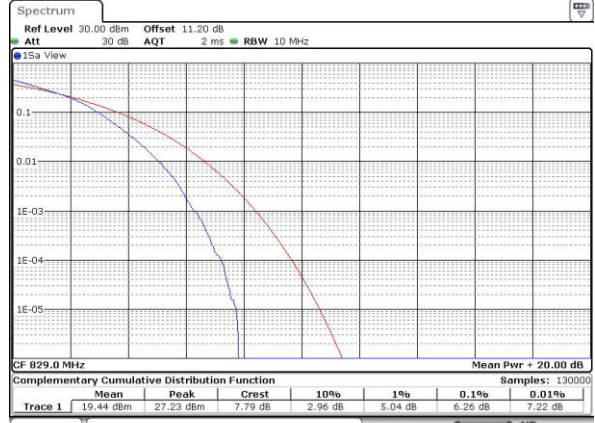
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 10.FEB.2016 13:46:39

Lowest Channel / Full RB



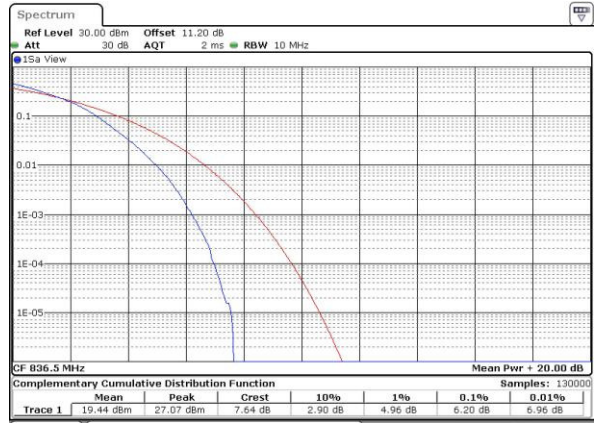
Date: 10.FEB.2016 13:46:57

Middle Channel / 1RB



Date: 10.FEB.2016 13:47:10

Middle Channel / Full RB



Date: 10.FEB.2016 13:47:29

Highest Channel / 1RB



Date: 10.FEB.2016 13:47:59

Highest Channel / Full RB



Date: 10.FEB.2016 13:48:13



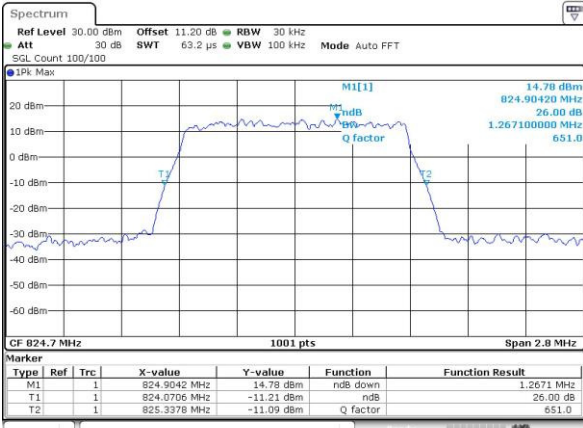
26dB Bandwidth

| Mode | LTE Band 5 : 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 | 1.27 | 1.26 | 2.97 | 3 | 4.95 | 4.98 | 9.91 | 9.91 | - | - | - | - |
| Middle CH | 1.3 | 1.24 | 3 | 2.96 | 5.02 | 4.88 | 9.95 | 9.97 | - | - | - | - |
| Highest CH | 1.24 | 1.24 | 3.02 | 3.01 | 4.92 | 4.86 | 9.67 | 9.79 | - | - | - | - |



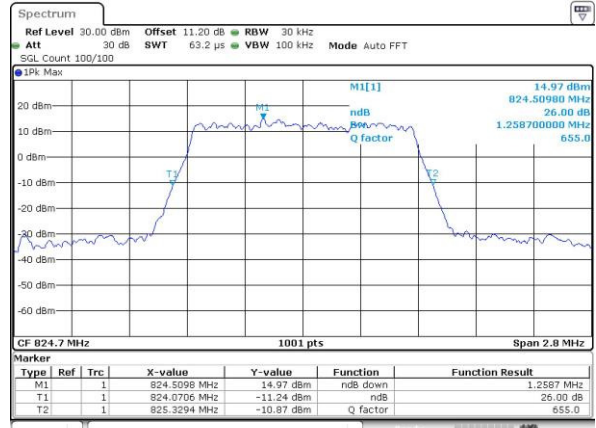
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



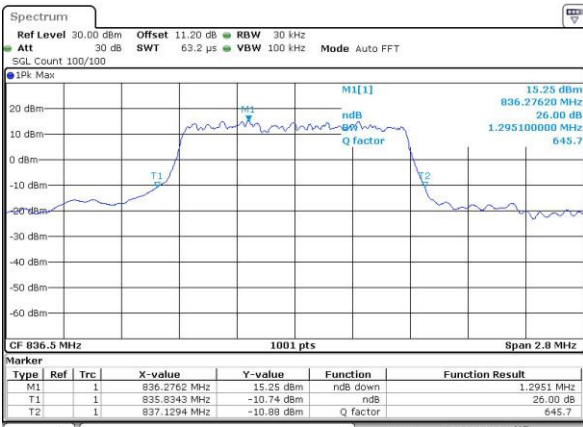
Date: 10.FEB.2016 13:12:44

Lowest Channel / 1.4MHz / 16QAM



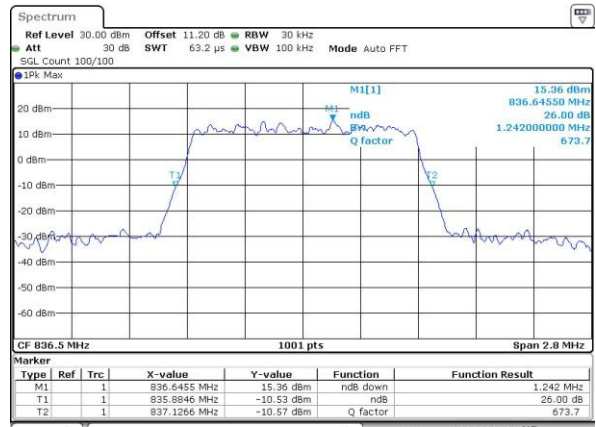
Date: 10.FEB.2016 13:12:33

Middle Channel / 1.4MHz / QPSK



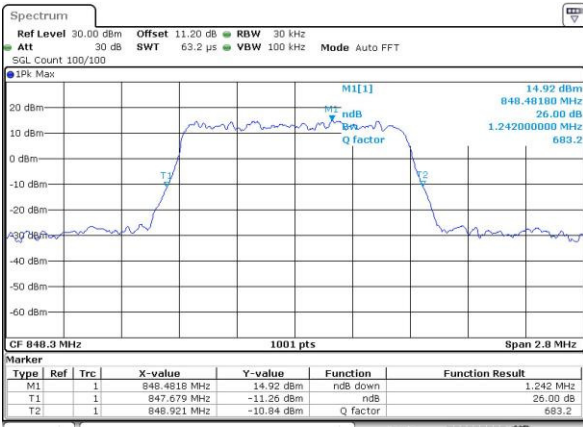
Date: 10.FEB.2016 13:23:26

Middle Channel / 1.4MHz / 16QAM



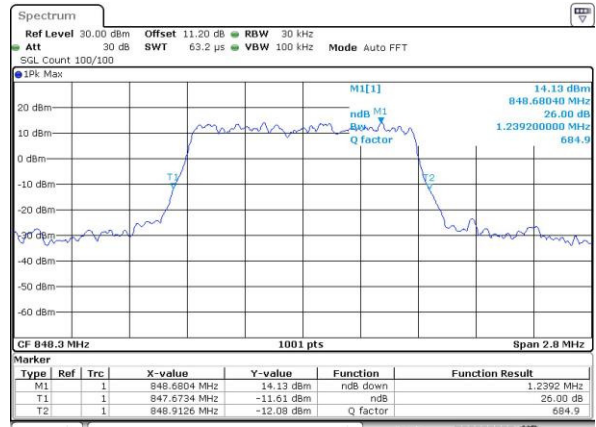
Date: 10.FEB.2016 13:23:38

Highest Channel / 1.4MHz / QPSK



Date: 10.FEB.2016 13:26:09

Highest Channel / 1.4MHz / 16QAM

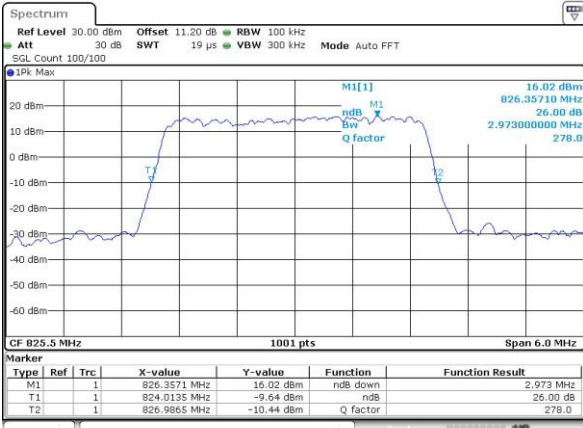


Date: 10.FEB.2016 13:26:21



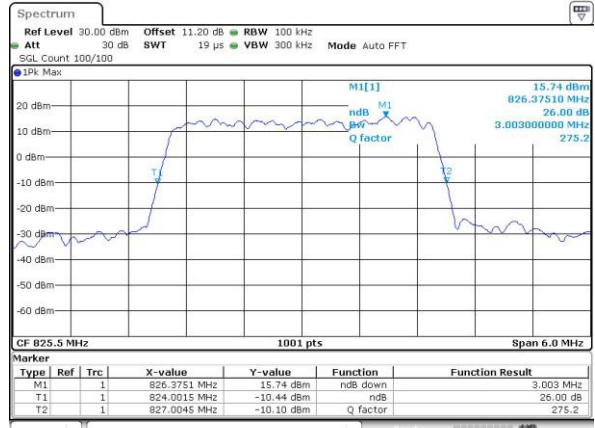
LTE Band 5

Lowest Channel / 3MHz / QPSK



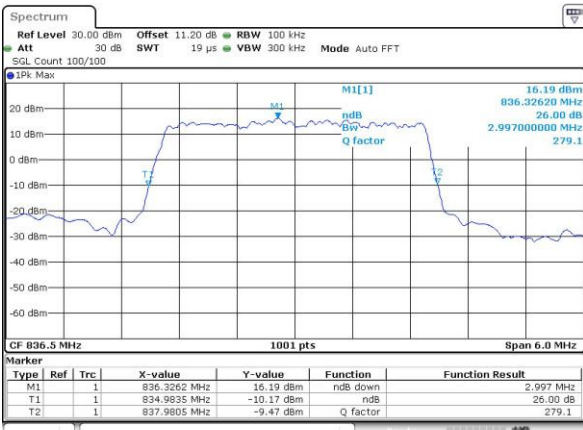
Date: 10.FEB.2016 11:25:05

Lowest Channel / 3MHz / 16QAM



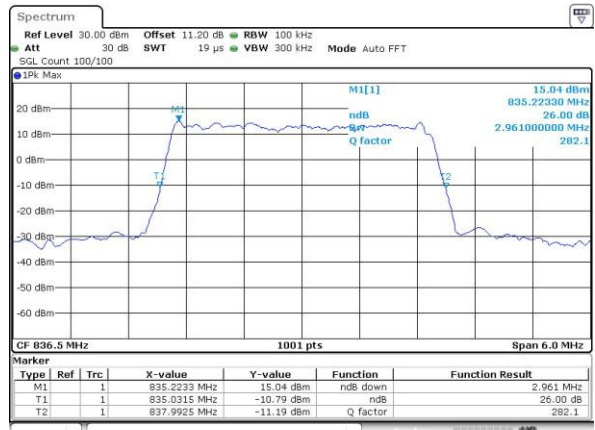
Date: 10.FEB.2016 11:25:16

Middle Channel / 3MHz / QPSK



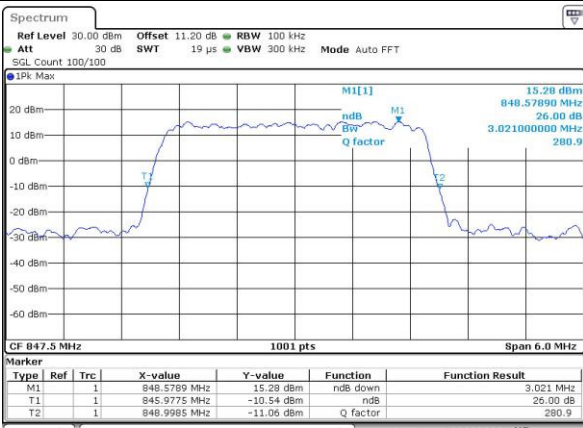
Date: 10.FEB.2016 11:35:59

Middle Channel / 3MHz / 16QAM



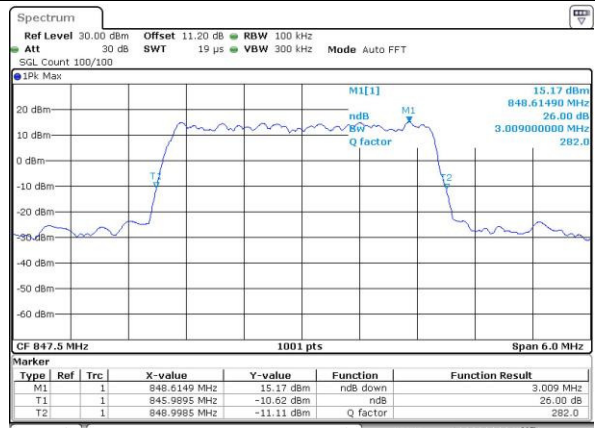
Date: 10.FEB.2016 11:36:10

Highest Channel / 3MHz / QPSK



Date: 10.FEB.2016 11:38:42

Highest Channel / 3MHz / 16QAM

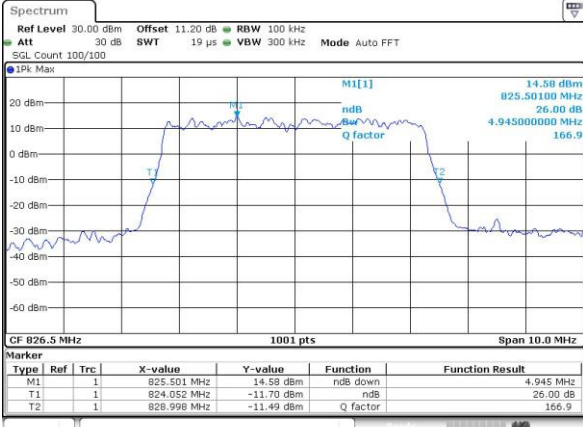


Date: 10.FEB.2016 11:38:54



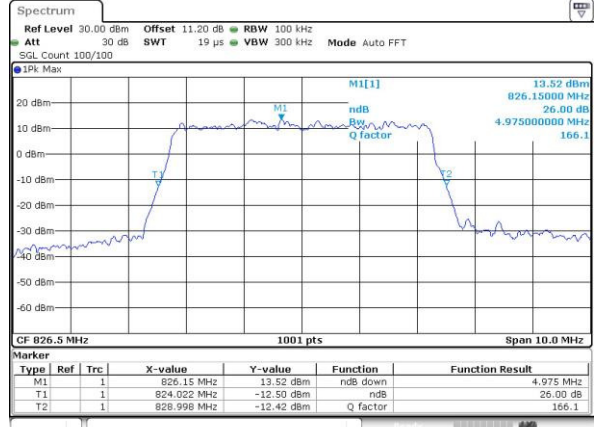
LTE Band 5

Lowest Channel / 5MHz / QPSK



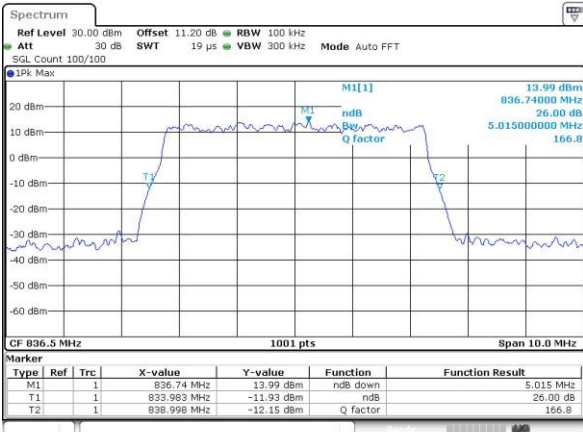
Date: 10.FEB.2016 11:49:35

Lowest Channel / 5MHz / 16QAM



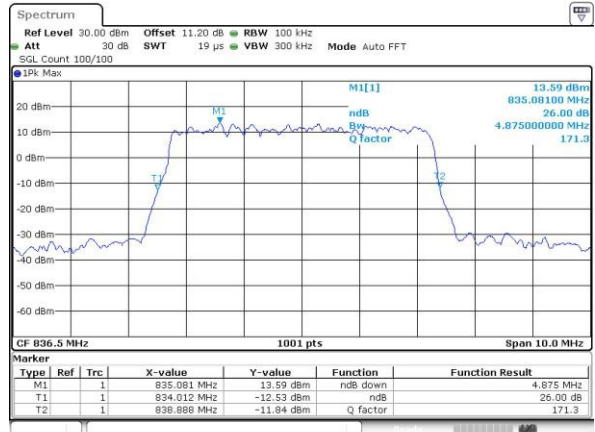
Date: 10.FEB.2016 11:49:47

Middle Channel / 5MHz / QPSK



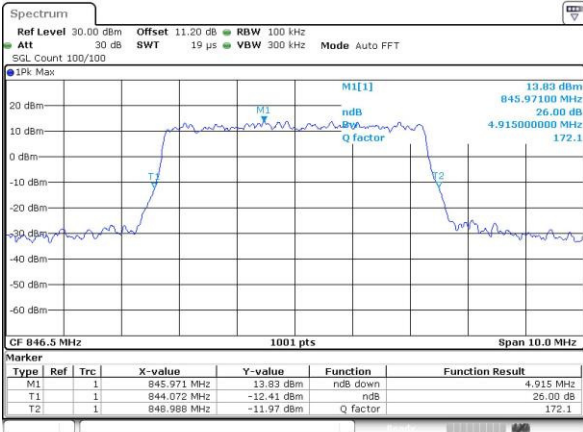
Date: 10.FEB.2016 12:00:30

Middle Channel / 5MHz / 16QAM



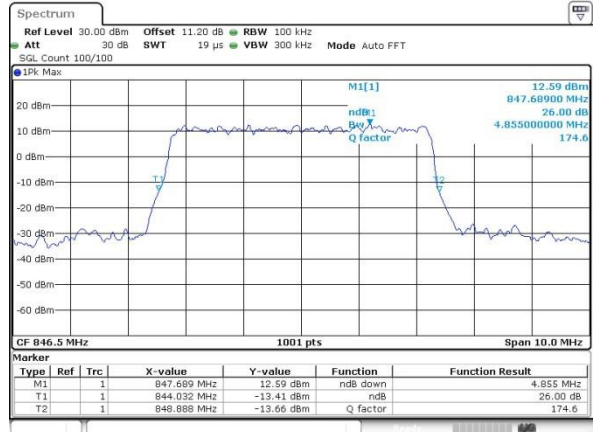
Date: 10.FEB.2016 12:00:42

Highest Channel / 5MHz / QPSK



Date: 10.FEB.2016 12:03:15

Highest Channel / 5MHz / 16QAM

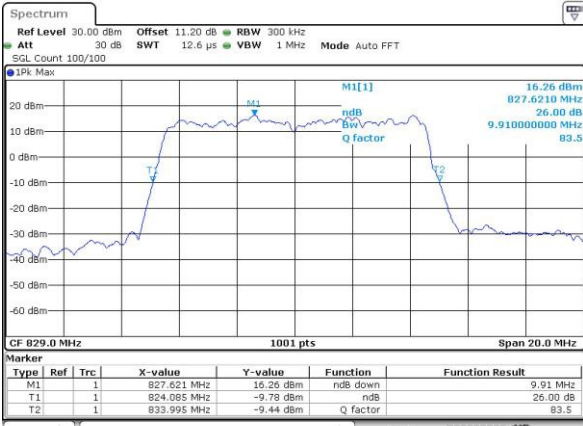


Date: 10.FEB.2016 12:03:26



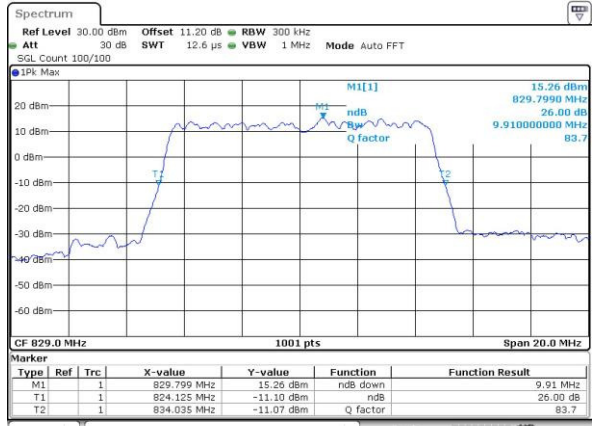
LTE Band 5

Lowest Channel / 10MHz / QPSK



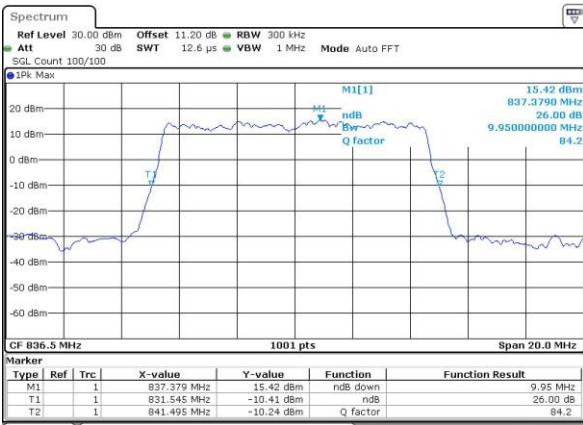
Date: 10.FEB.2016 12:48:04

Lowest Channel / 10MHz / 16QAM



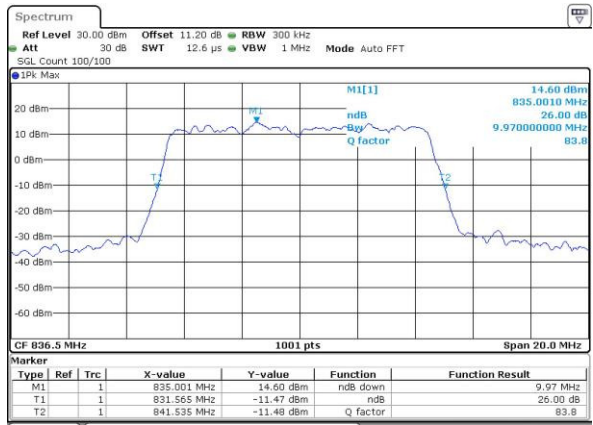
Date: 10.FEB.2016 12:48:15

Middle Channel / 10MHz / QPSK



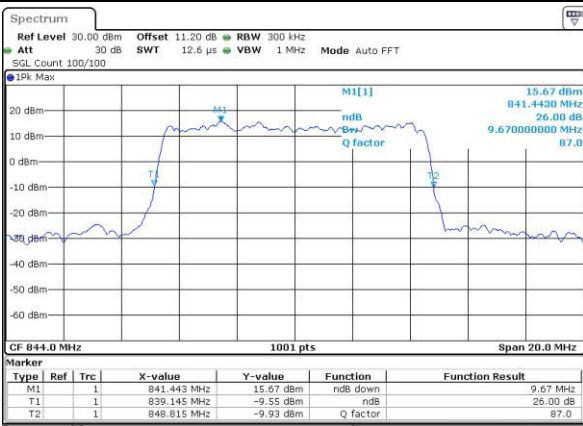
Date: 10.FEB.2016 12:58:57

Middle Channel / 10MHz / 16QAM



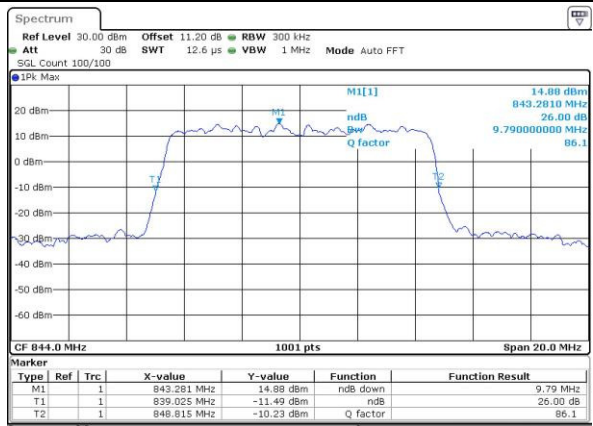
Date: 10.FEB.2016 12:59:08

Highest Channel / 10MHz / QPSK



Date: 10.FEB.2016 13:01:40

Highest Channel / 10MHz / 16QAM



Date: 10.FEB.2016 13:01:52



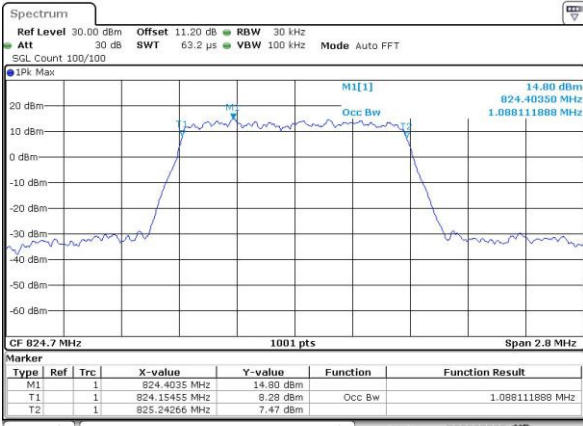
Occupied Bandwidth

| Mode | LTE Band 5 : 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 | 1.09 | 1.09 | 2.71 | 2.7 | 4.48 | 4.48 | 8.99 | 9.01 | - | - | - | - |
| Middle CH | 1.09 | 1.09 | 2.7 | 2.7 | 4.5 | 4.47 | 9.03 | 9.01 | - | - | - | - |
| Highest CH | 1.09 | 1.09 | 2.72 | 2.73 | 4.49 | 4.49 | 9.01 | 9.05 | - | - | - | - |



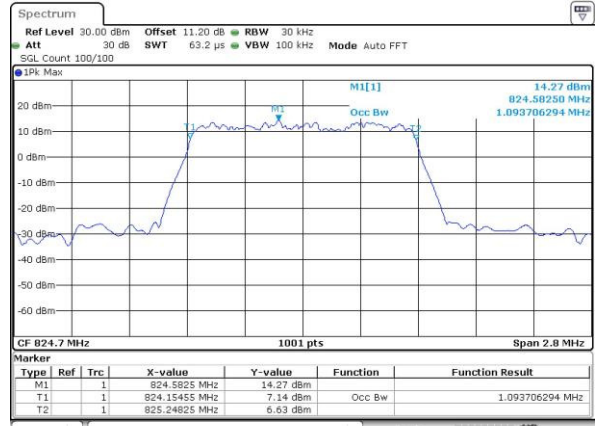
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



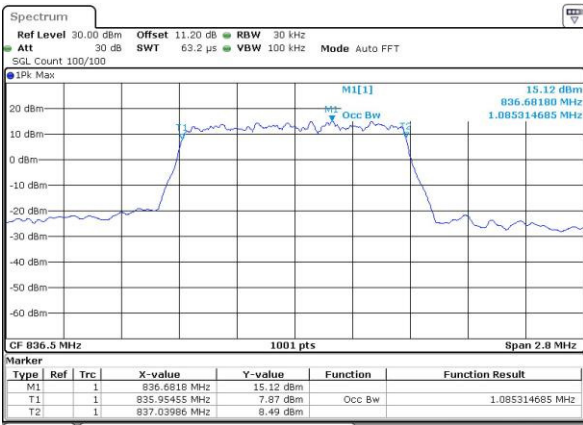
Date: 10.FEB.2016 13:12:10

Lowest Channel / 1.4MHz / 16QAM



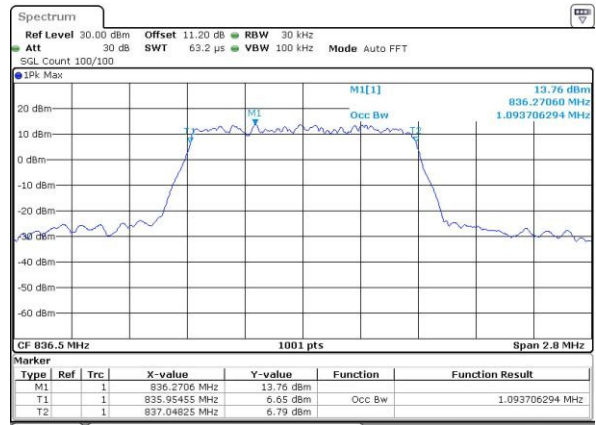
Date: 10.FEB.2016 13:12:21

Middle Channel / 1.4MHz / QPSK



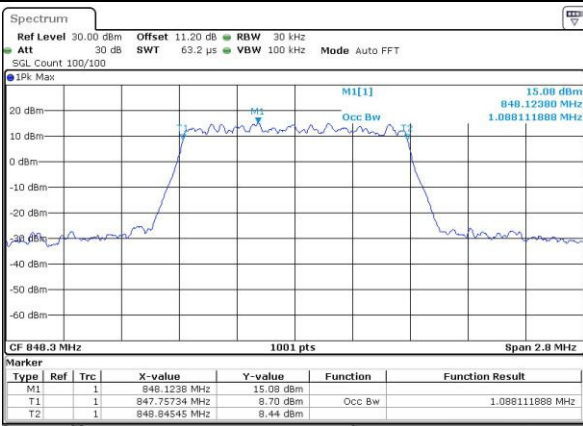
Date: 10.FEB.2016 13:23:03

Middle Channel / 1.4MHz / 16QAM



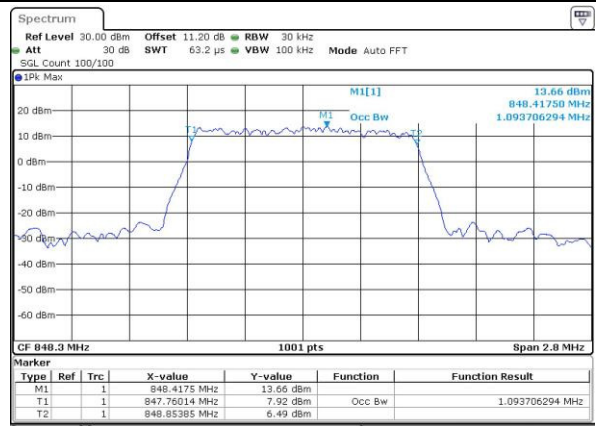
Date: 10.FEB.2016 13:23:14

Highest Channel / 1.4MHz / QPSK



Date: 10.FEB.2016 13:25:46

Highest Channel / 1.4MHz / 16QAM

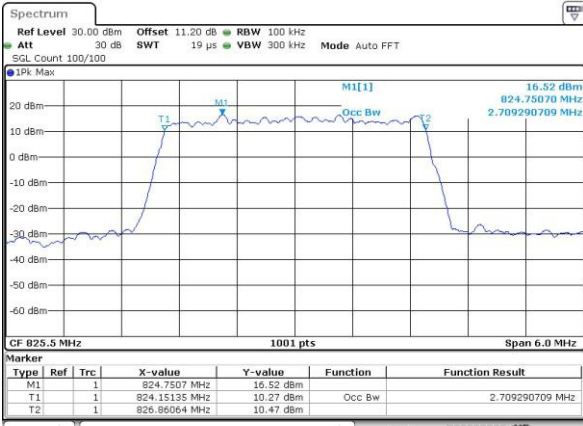


Date: 10.FEB.2016 13:25:58



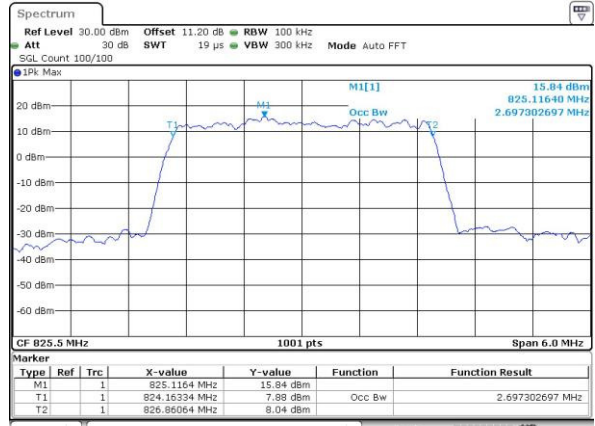
LTE Band 5

Lowest Channel / 3MHz / QPSK



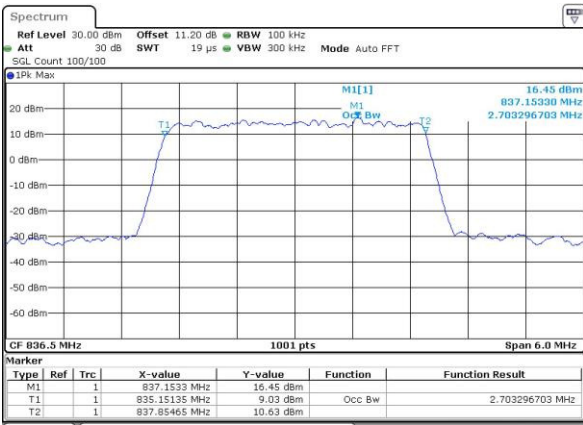
Date: 10.FEB.2016 11:24:41

Lowest Channel / 3MHz / 16QAM



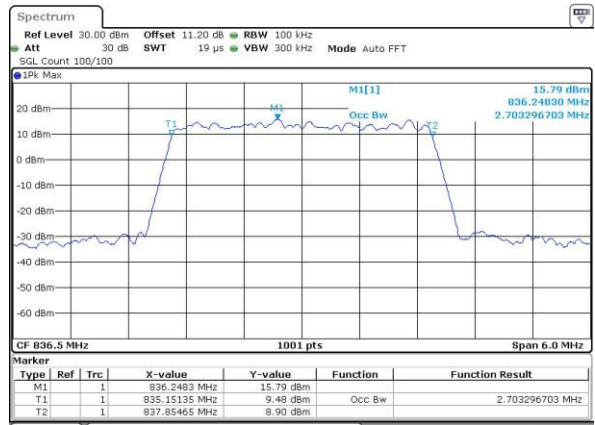
Date: 10.FEB.2016 11:24:53

Middle Channel / 3MHz / QPSK



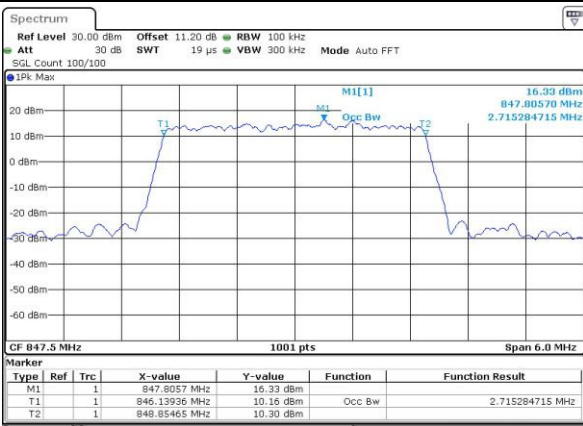
Date: 10.FEB.2016 11:35:05

Middle Channel / 3MHz / 16QAM



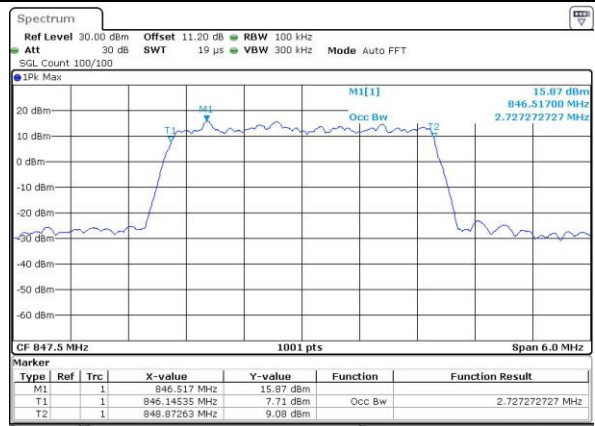
Date: 10.FEB.2016 11:35:47

Highest Channel / 3MHz / QPSK



Date: 10.FEB.2016 11:38:19

Highest Channel / 3MHz / 16QAM



Date: 10.FEB.2016 11:38:30