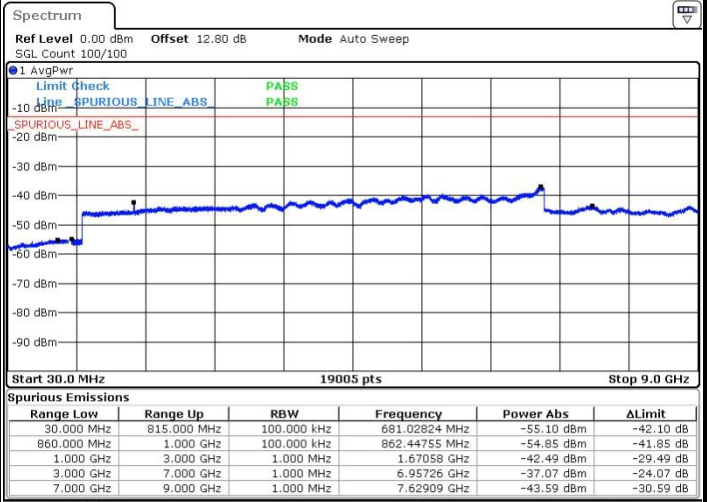
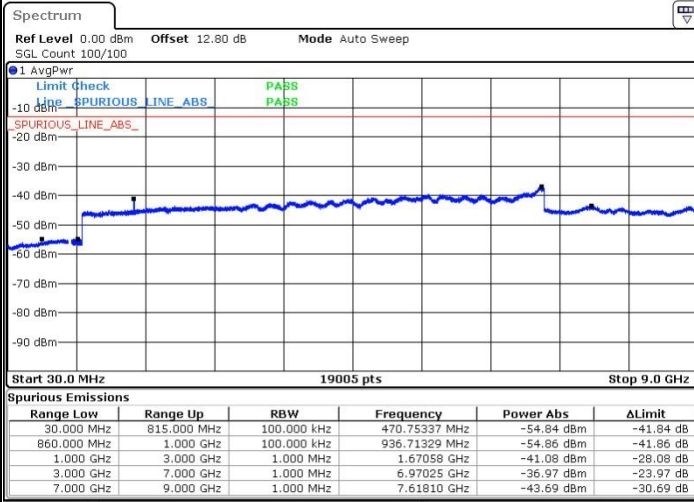




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

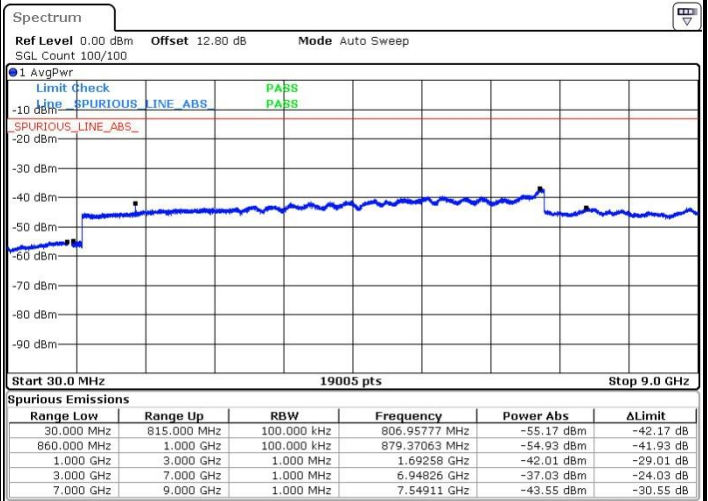
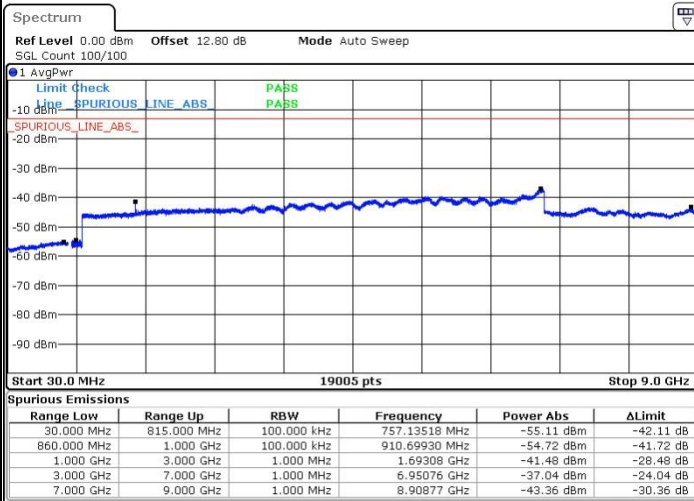


Date: 23.AUG.2015 13:44:04

Date: 23.AUG.2015 13:45:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.AUG.2015 13:54:25

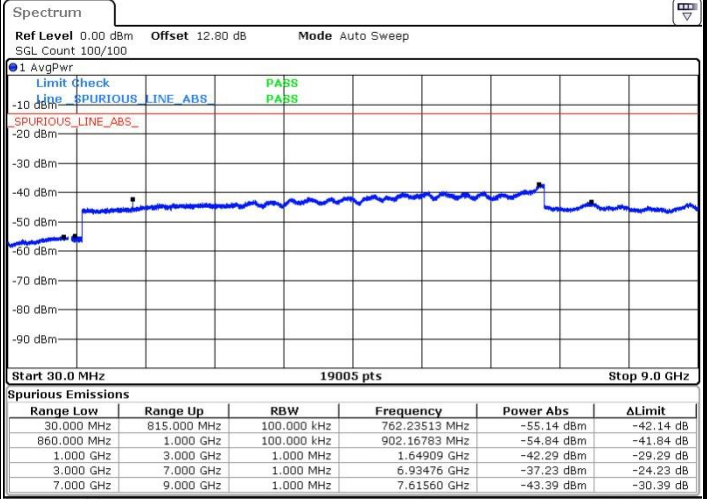
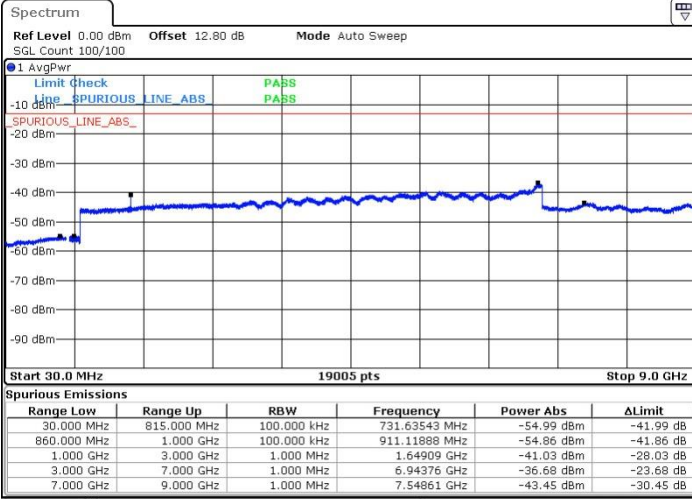
Date: 23.AUG.2015 13:55:23



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

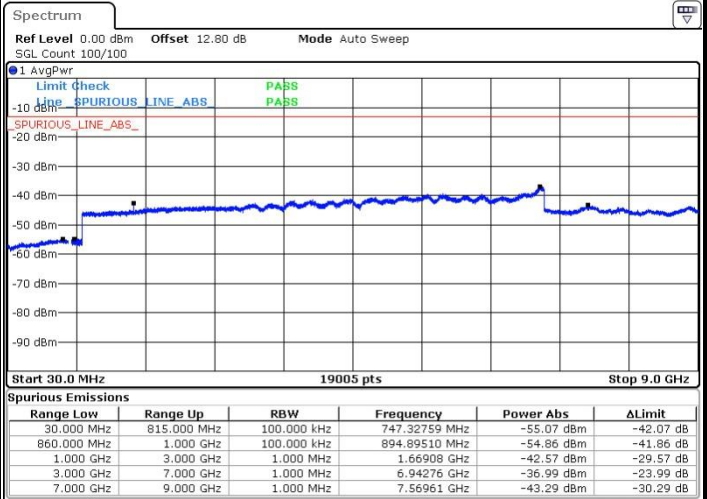


Date: 23.AUG.2015 14:04:46

Date: 23.AUG.2015 14:05:44

Middle Channel / QPSK

Middle Channel / 16QAM



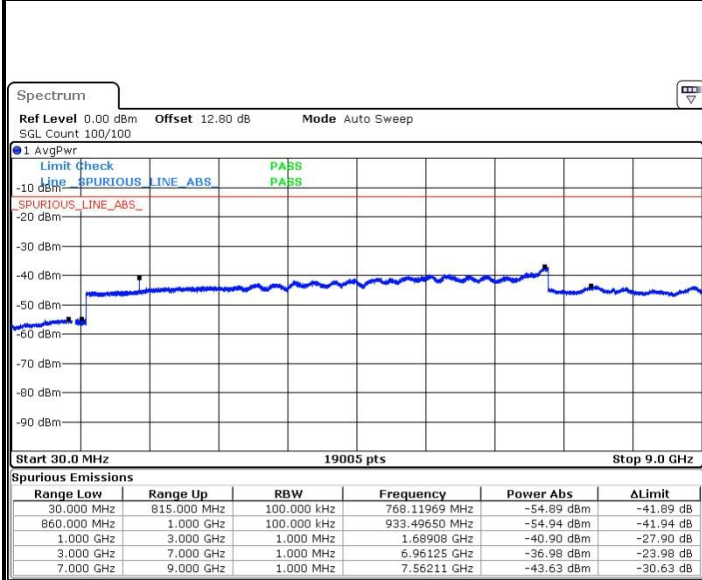
Date: 23.AUG.2015 14:07:29

Date: 23.AUG.2015 14:08:27



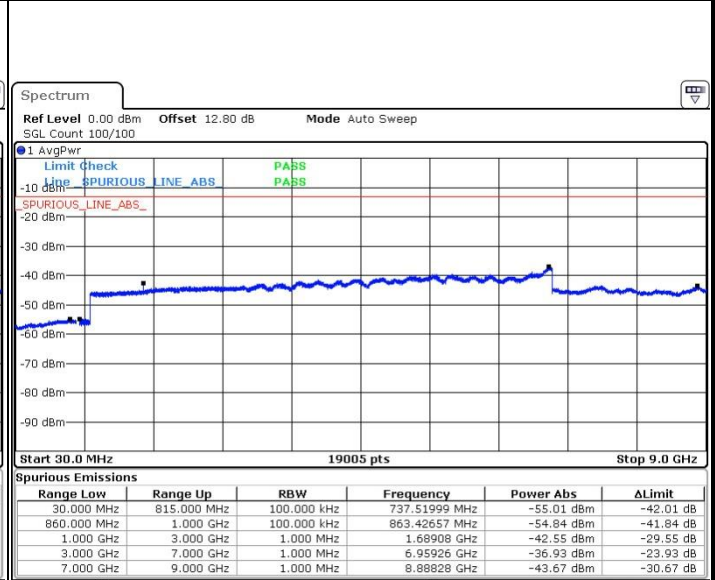
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 23.AUG.2015 14:17:50

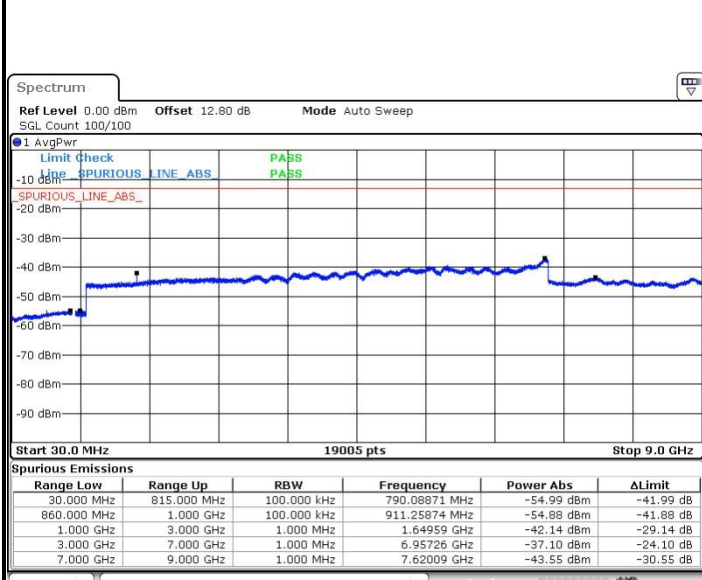
Highest Channel / 16QAM



Date: 23.AUG.2015 14:18:49

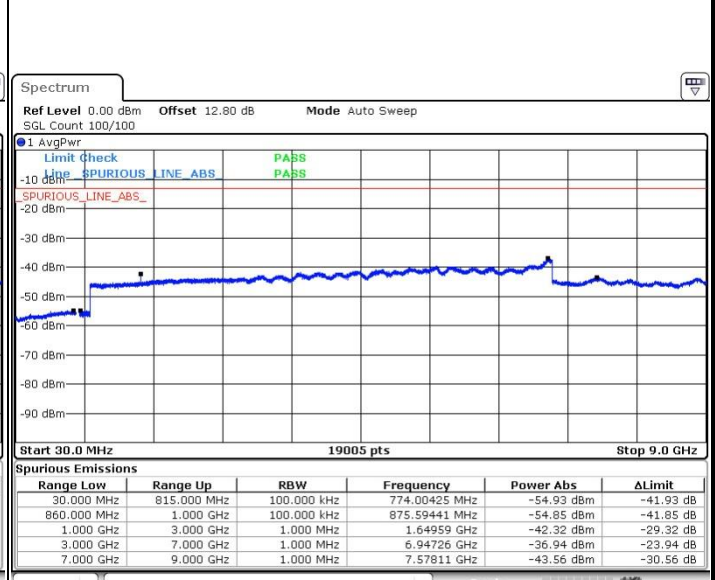
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 23.AUG.2015 14:28:12

Lowest Channel / 16QAM



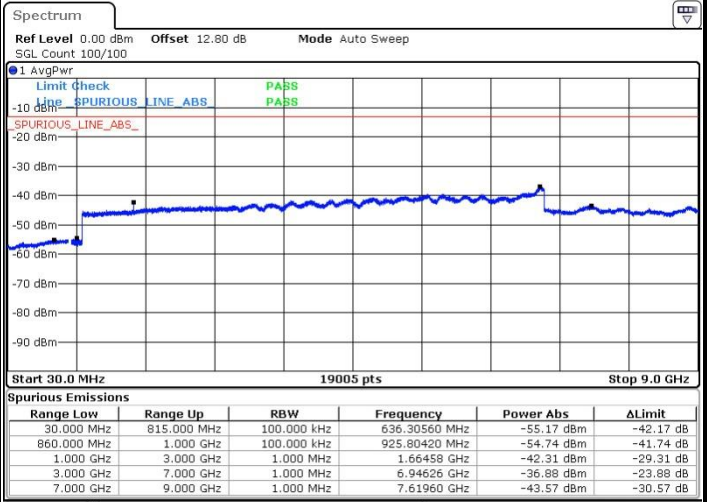
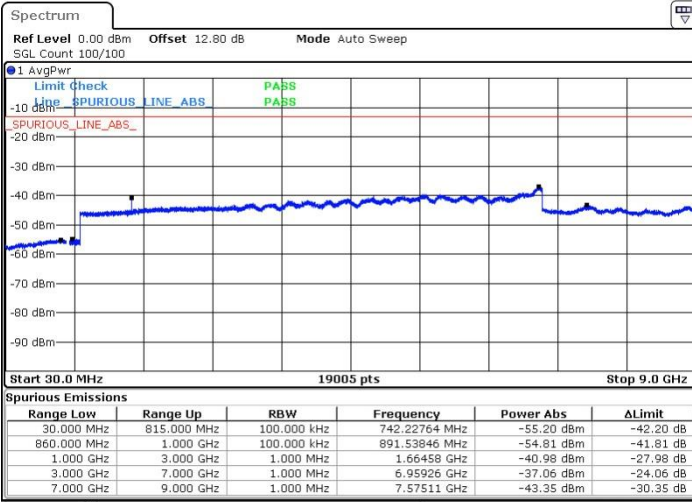
Date: 23.AUG.2015 14:29:10



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

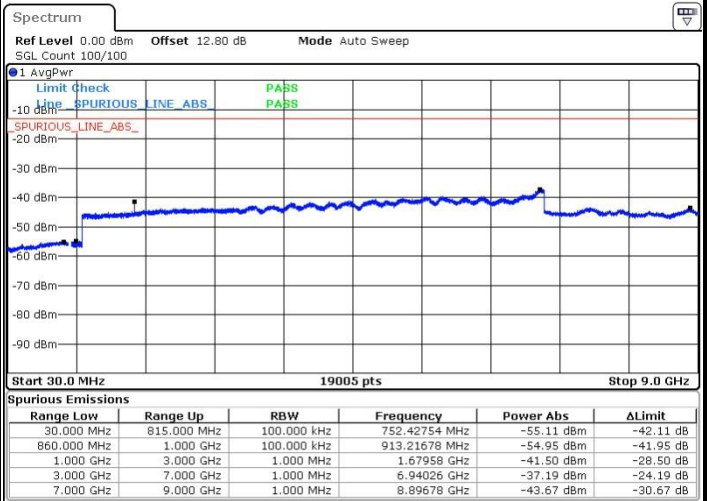
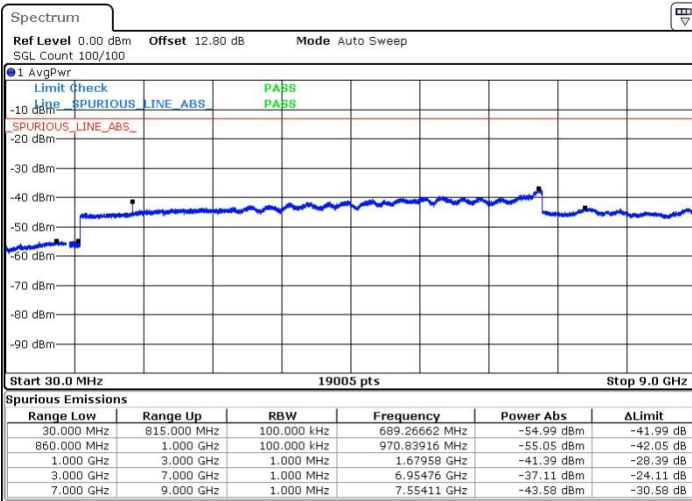


Date: 23.AUG.2015 14:30:55

Date: 23.AUG.2015 14:31:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.AUG.2015 14:41:16

Date: 23.AUG.2015 14:42:14



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 | 0.0085 | PASS |
| 40 | Normal Voltage | 0.0091 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0092 | |
| 0 | Normal Voltage | 0.0096 | |
| -10 | Normal Voltage | 0.0086 | |
| -20 | Normal Voltage | 0.0081 | |
| -30 | Normal Voltage | 0.0005 | |
| 20 | Maximum Voltage | 0.0094 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0092 | |

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V



LTE Band 7

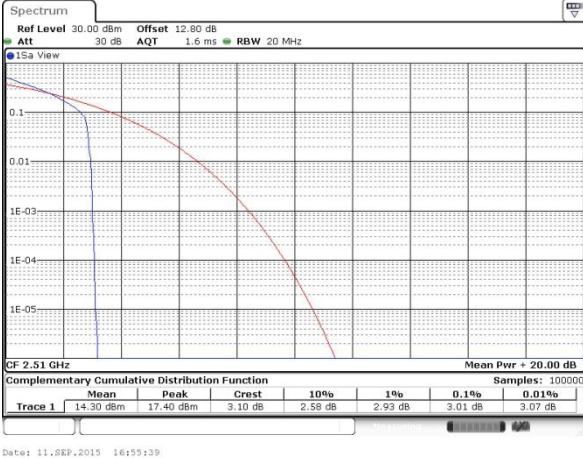
Peak-to-Average Ratio

| Mode | LTE Band 7 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.01 | 4.23 | 3.91 | 5.04 | PASS |
| Middle CH | 3.07 | 4.29 | 3.94 | 5.13 | |
| Highest CH | 3.04 | 4.17 | 3.51 | 5.1 | |



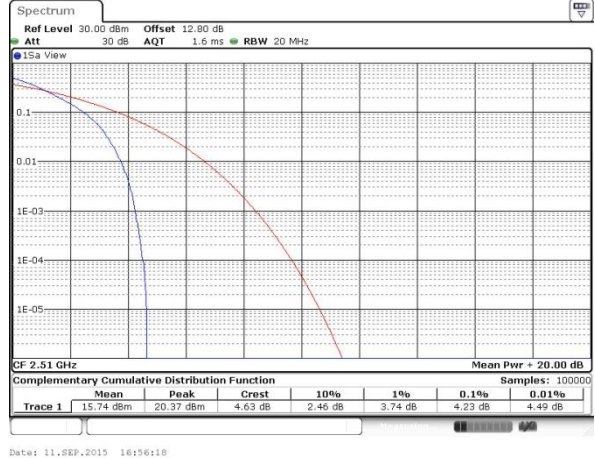
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



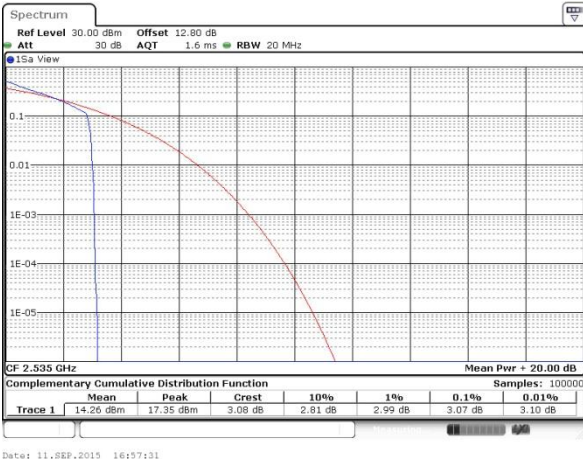
Date: 11.SEP.2015 16:55:39

Lowest Channel / Full RB



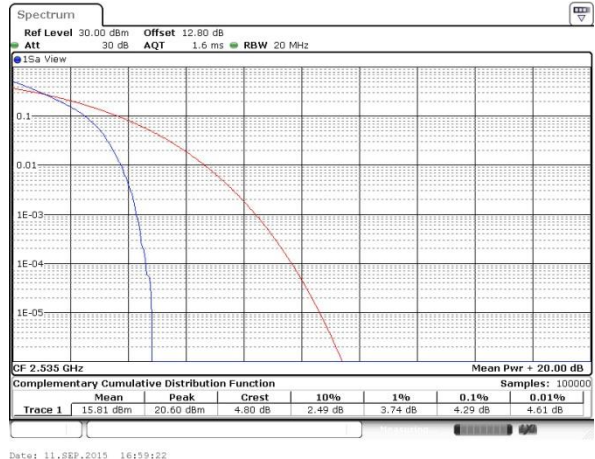
Date: 11.SEP.2015 16:56:18

Middle Channel / 1RB



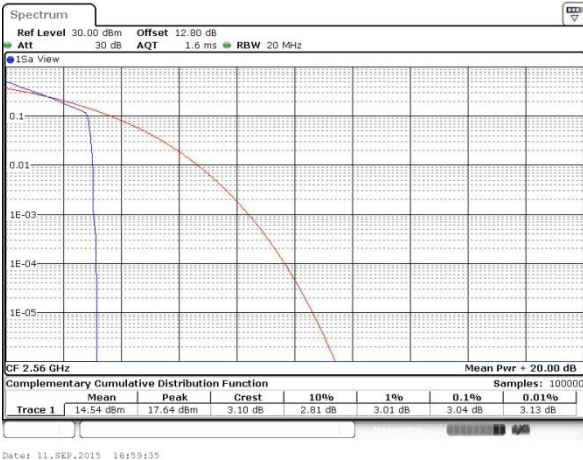
Date: 11.SEP.2015 16:57:51

Middle Channel / Full RB



Date: 11.SEP.2015 16:59:22

Highest Channel / 1RB



Date: 11.SEP.2015 16:59:35

Highest Channel / Full RB

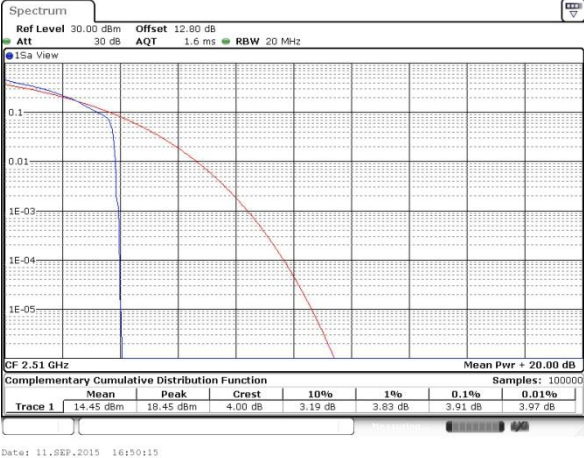


Date: 11.SEP.2015 17:00:18



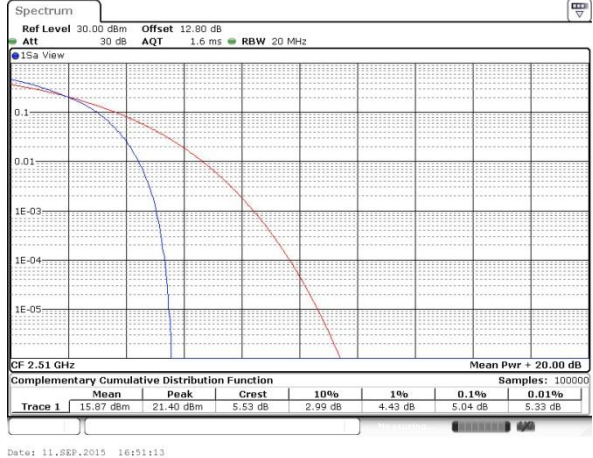
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



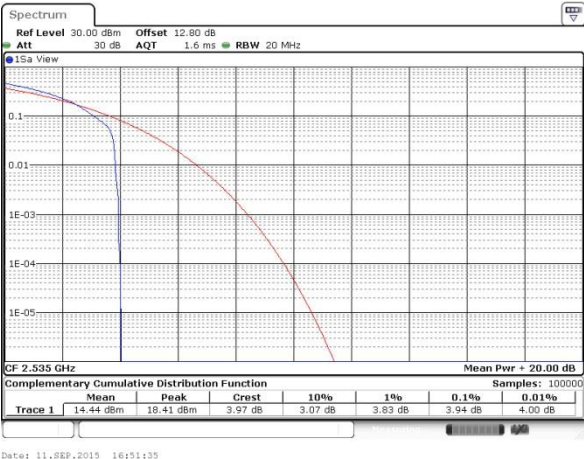
Date: 11.SEP.2015 16:50:15

Lowest Channel / Full RB



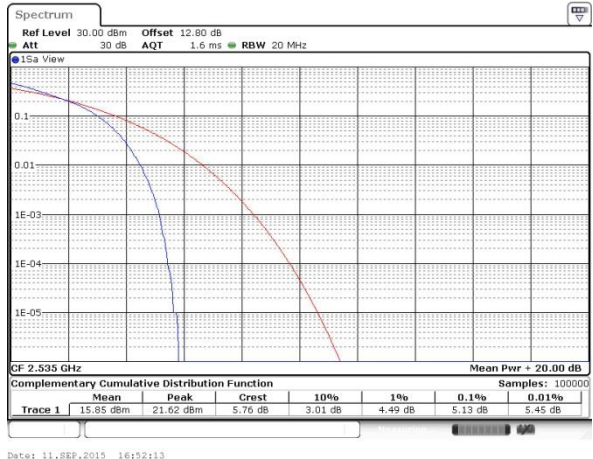
Date: 11.SEP.2015 16:51:13

Middle Channel / 1RB



Date: 11.SEP.2015 16:51:05

Middle Channel / Full RB



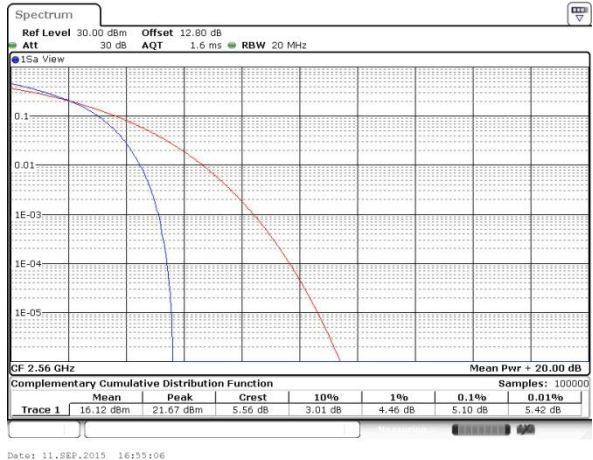
Date: 11.SEP.2015 16:52:13

Highest Channel / 1RB



Date: 11.SEP.2015 16:54:38

Highest Channel / Full RB



Date: 11.SEP.2015 16:55:06



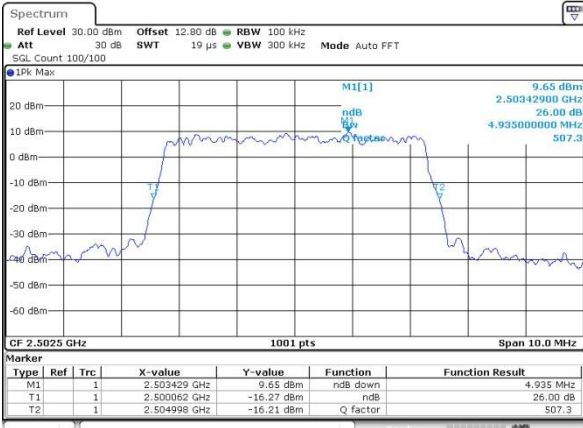
26dB Bandwidth

| 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 |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.94 | 4.9 | 9.79 | 9.77 | 14.3 | 14.27 | 20.3 | 20.34 |
| Middle CH | - | - | - | - | 4.88 | 4.9 | 9.77 | 9.97 | 14.33 | 14.51 | 20.34 | 20.3 |
| Highest CH | - | - | - | - | 4.88 | 4.89 | 9.81 | 9.87 | 14.48 | 14.45 | 20.46 | 20.34 |



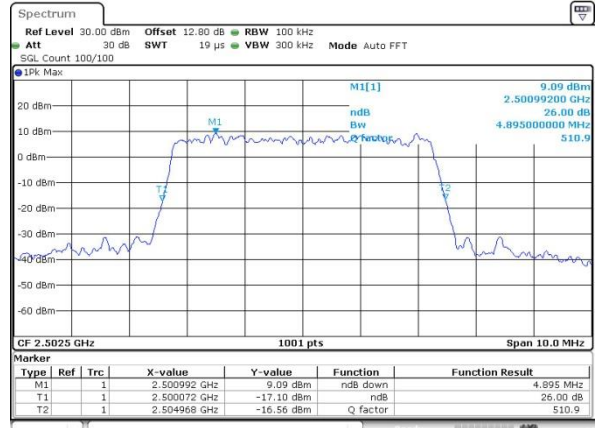
LTE Band 7

Lowest Channel / 5MHz / QPSK



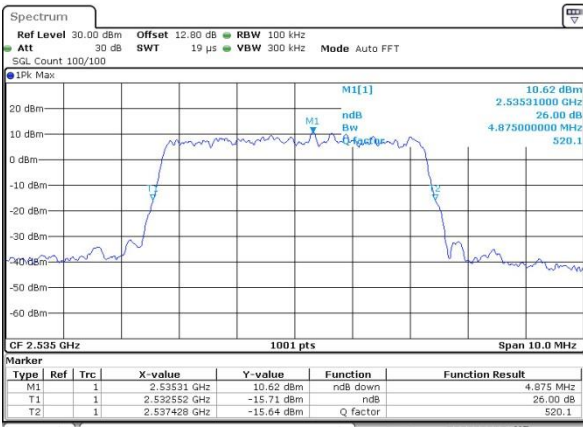
Date: 11.SEP.2015 15:41:34

Lowest Channel / 5MHz / 16QAM



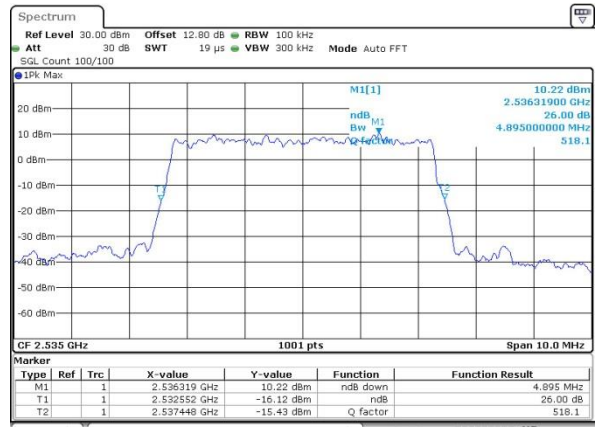
Date: 11.SEP.2015 15:41:46

Middle Channel / 5MHz / QPSK



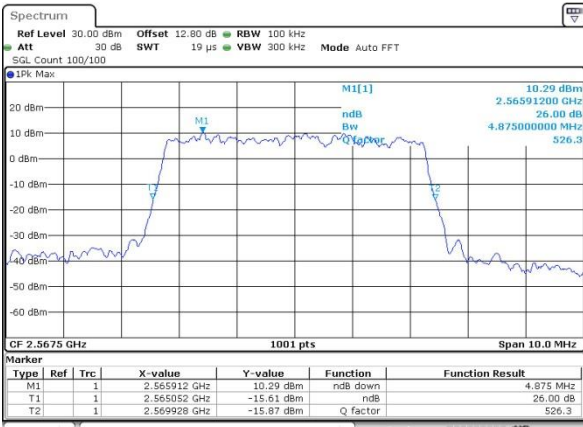
Date: 11.SEP.2015 15:48:02

Middle Channel / 5MHz / 16QAM



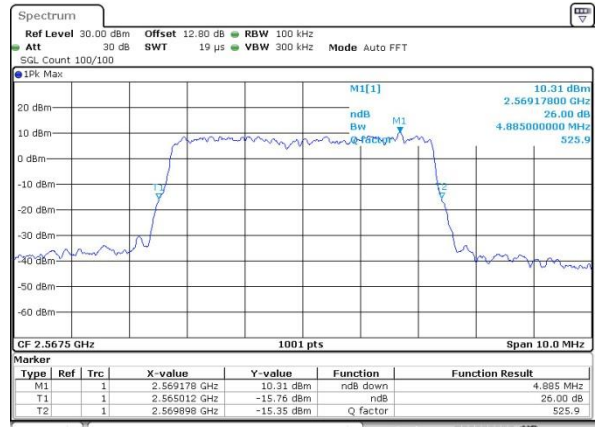
Date: 11.SEP.2015 15:49:04

Highest Channel / 5MHz / QPSK



Date: 11.SEP.2015 15:51:30

Highest Channel / 5MHz / 16QAM

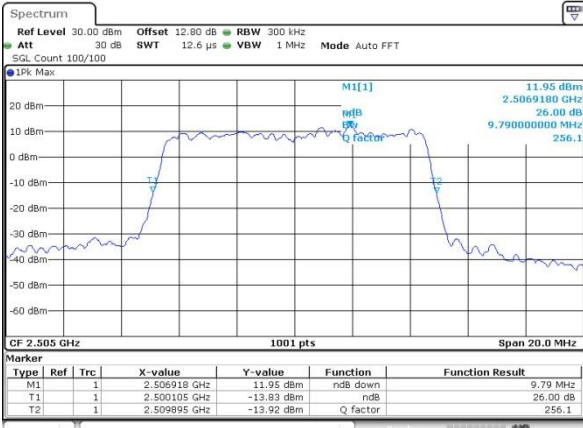


Date: 11.SEP.2015 15:51:42



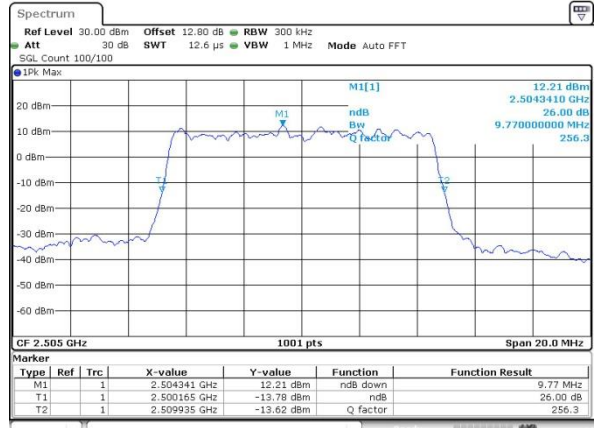
LTE Band 7

Lowest Channel / 10MHz / QPSK



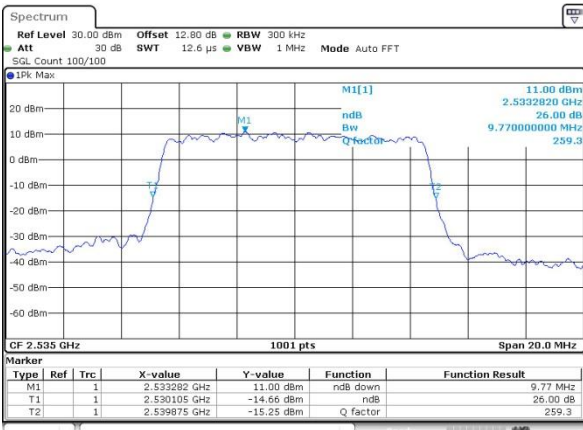
Date: 11.SEP.2015 15:58:48

Lowest Channel / 10MHz / 16QAM



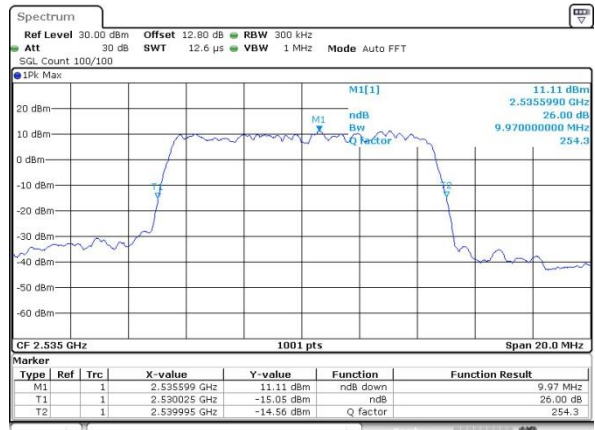
Date: 11.SEP.2015 15:59:00

Middle Channel / 10MHz / QPSK



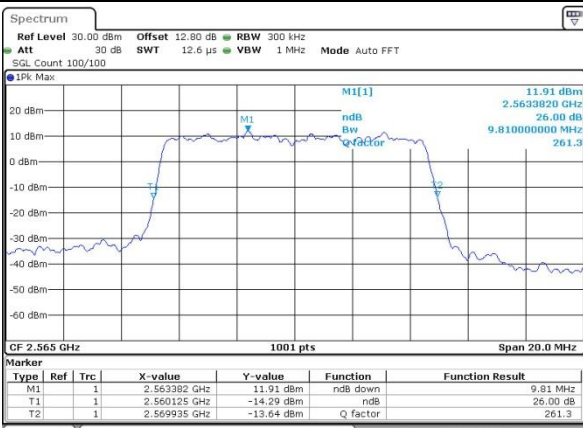
Date: 11.SEP.2015 16:06:05

Middle Channel / 10MHz / 16QAM



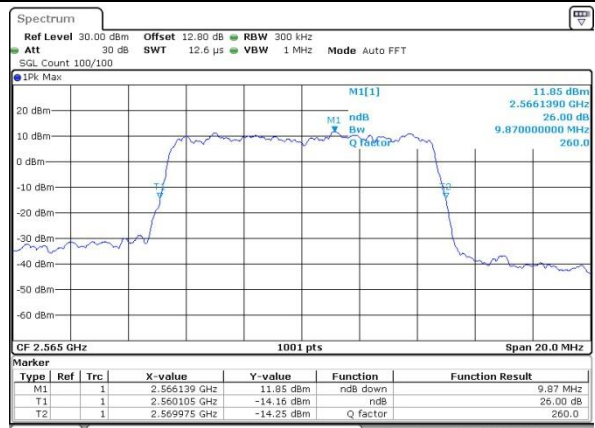
Date: 11.SEP.2015 16:06:17

Highest Channel / 10MHz / QPSK



Date: 11.SEP.2015 16:08:44

Highest Channel / 10MHz / 16QAM

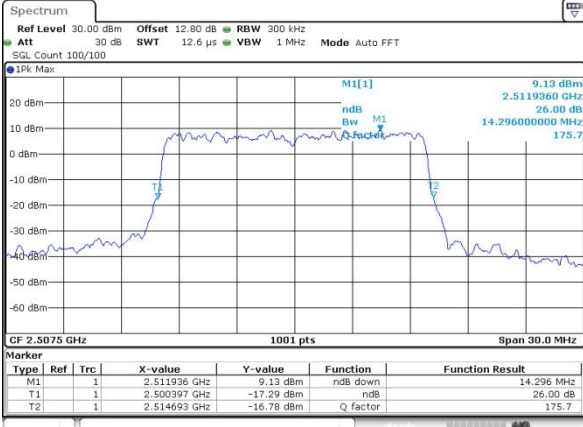


Date: 11.SEP.2015 16:08:55



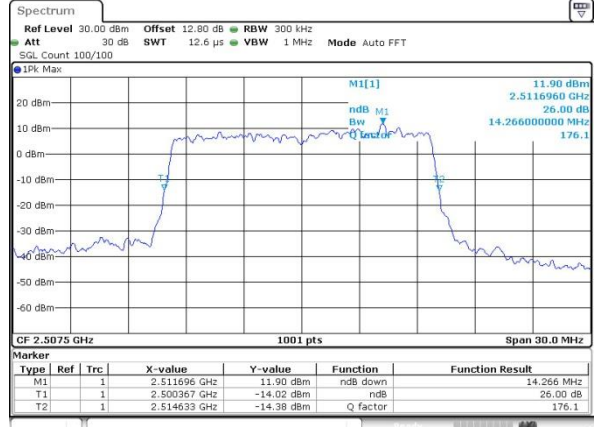
LTE Band 7

Lowest Channel / 15MHz / QPSK



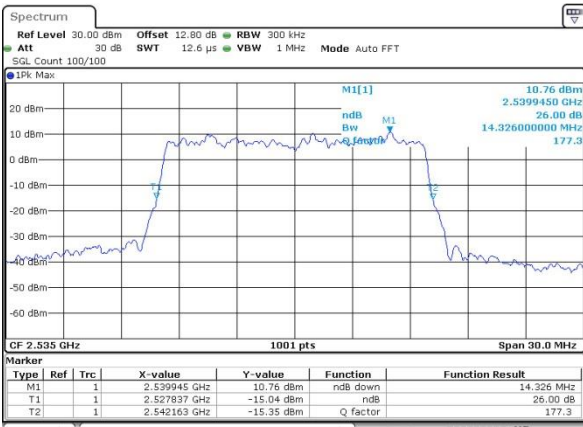
Date: 11.SEP.2015 16:16:02

Lowest Channel / 15MHz / 16QAM



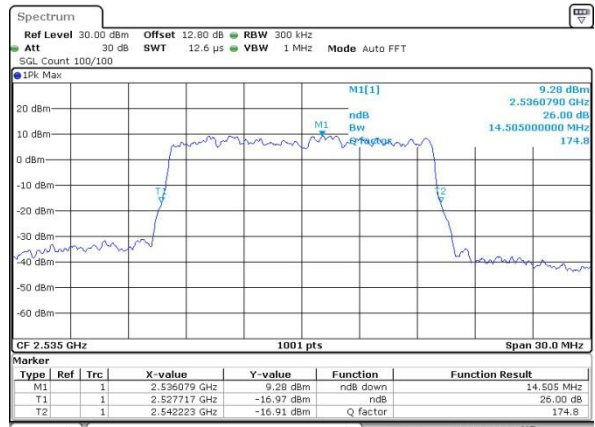
Date: 11.SEP.2015 16:16:14

Middle Channel / 15MHz / QPSK



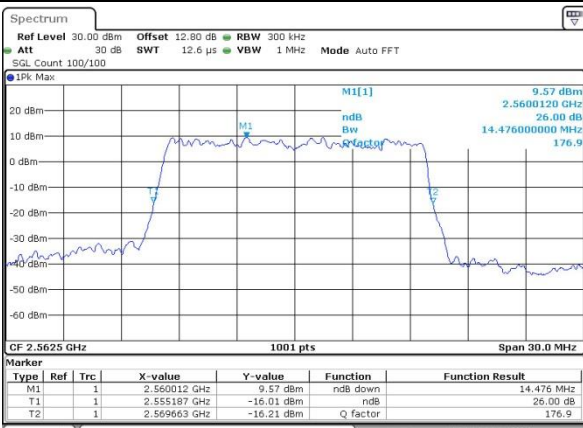
Date: 11.SEP.2015 16:23:19

Middle Channel / 15MHz / 16QAM



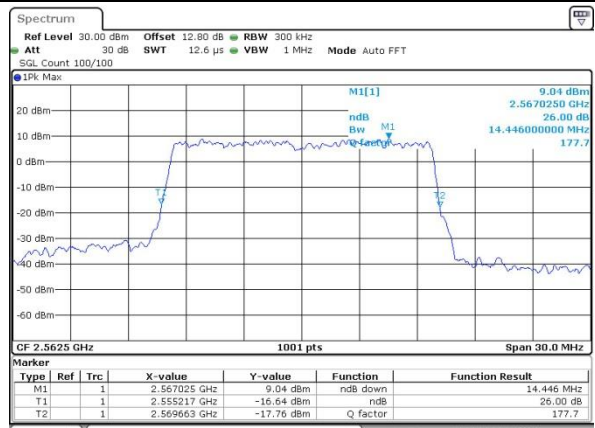
Date: 11.SEP.2015 16:23:31

Highest Channel / 15MHz / QPSK



Date: 11.SEP.2015 16:25:58

Highest Channel / 15MHz / 16QAM

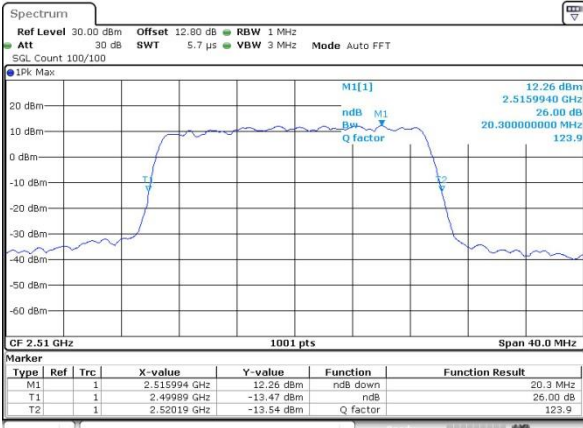


Date: 11.SEP.2015 16:26:09



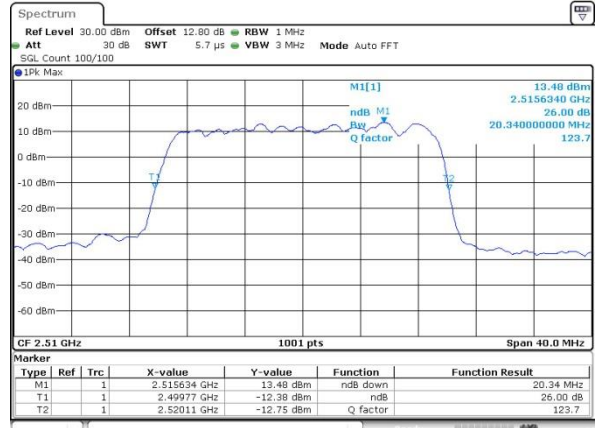
LTE Band 7

Lowest Channel / 20MHz / QPSK



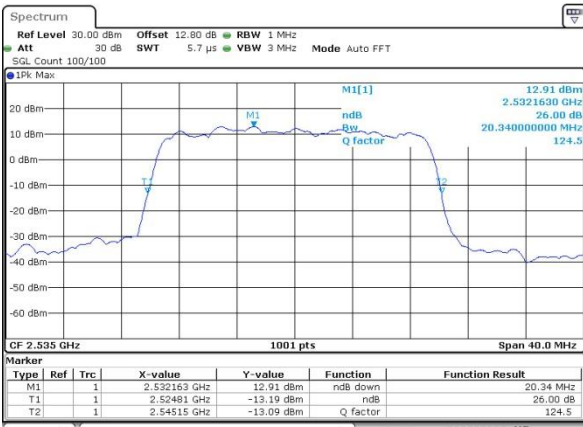
Date: 11.SEP.2015 16:33:15

Lowest Channel / 20MHz / 16QAM



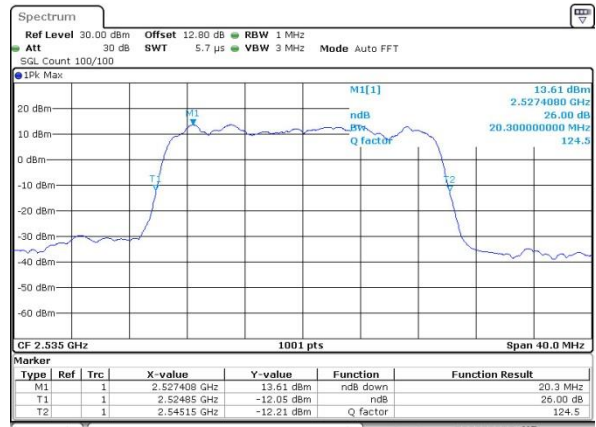
Date: 11.SEP.2015 16:33:27

Middle Channel / 20MHz / QPSK



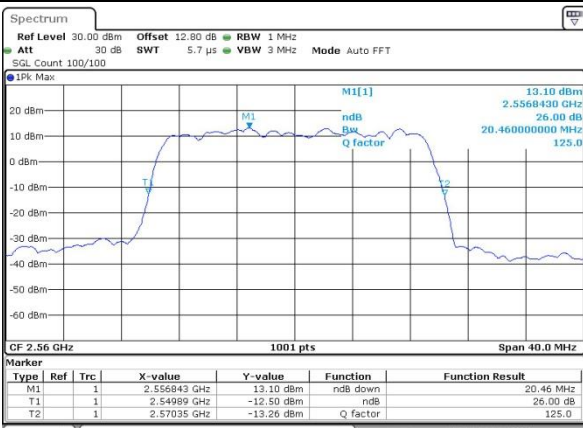
Date: 11.SEP.2015 16:40:33

Middle Channel / 20MHz / 16QAM



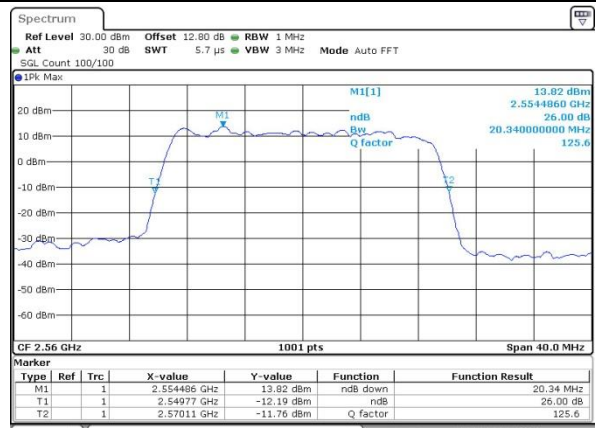
Date: 11.SEP.2015 16:40:45

Highest Channel / 20MHz / QPSK



Date: 11.SEP.2015 16:43:11

Highest Channel / 20MHz / 16QAM



Date: 11.SEP.2015 16:43:23



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 | - | - | - | - | 4.48 | 4.49 | 9.03 | 9.03 | 13.43 | 13.43 | 18.42 | 18.42 |
| Middle CH | - | - | - | - | 4.48 | 4.51 | 9.07 | 9.03 | 13.43 | 13.43 | 18.38 | 18.38 |
| Highest CH | - | - | - | - | 4.49 | 4.5 | 9.01 | 9.03 | 13.49 | 13.46 | 18.22 | 18.38 |