



LTE Band 4

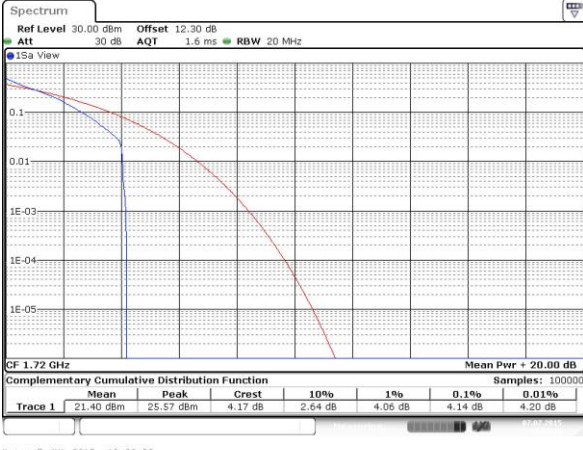
Peak-to-Average Ratio

| Mode | LTE Band 4 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.14 | 4.81 | 4.58 | 5.68 | PASS |
| Middle CH | 4.09 | 4.87 | 4.99 | 5.71 | |
| Highest CH | 4.09 | 4.78 | 4.46 | 5.68 | |



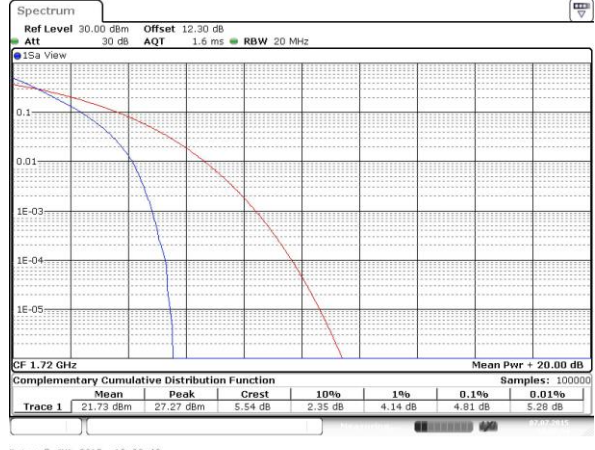
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



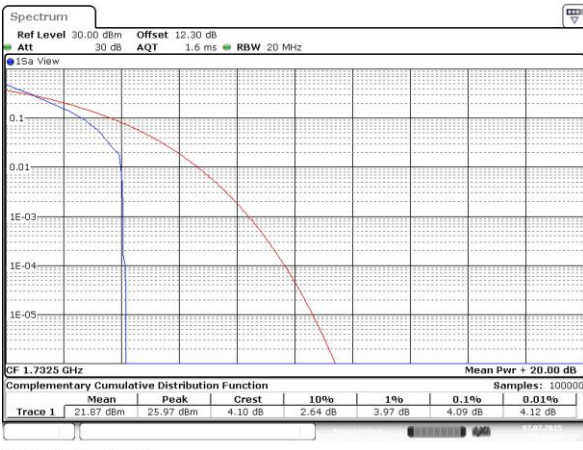
Date: 7 JUL 2015 19:22:59

Lowest Channel / Full RB



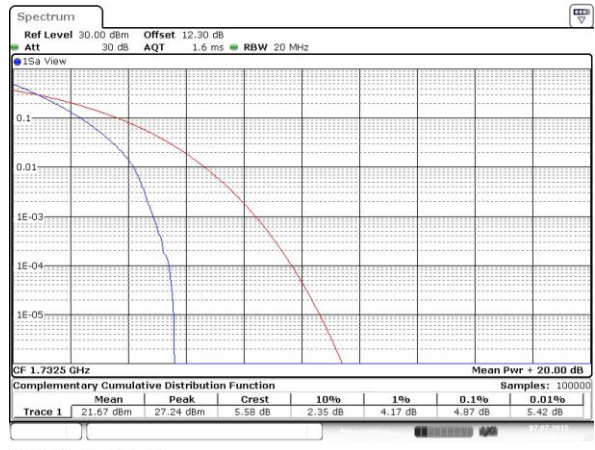
Date: 7 JUL 2015 19:22:43

Middle Channel / 1RB



Date: 7 JUL 2015 19:23:18

Middle Channel / Full RB



Date: 7 JUL 2015 19:22:26

Highest Channel / 1RB



Date: 7 JUL 2015 19:23:33

Highest Channel / Full RB

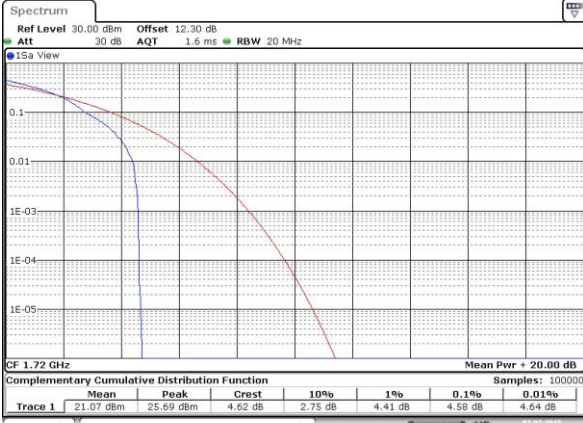


Date: 7 JUL 2015 19:21:49



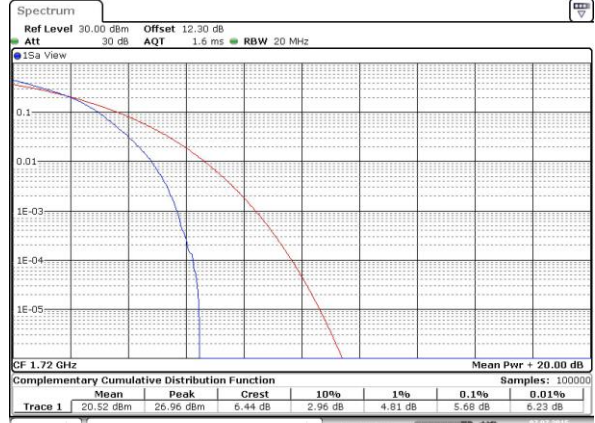
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 7 JUL 2015 18:20:19

Lowest Channel / Full RB



Date: 7 JUL 2015 18:21:11

Middle Channel / 1RB



Date: 7 JUL 2015 18:22:31

Middle Channel / Full RB



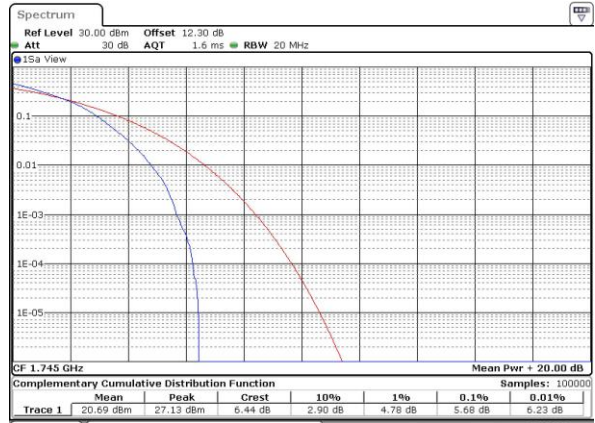
Date: 7 JUL 2015 18:25:51

Highest Channel / 1RB



Date: 7 JUL 2015 18:26:02

Highest Channel / Full RB



Date: 7 JUL 2015 19:22:05



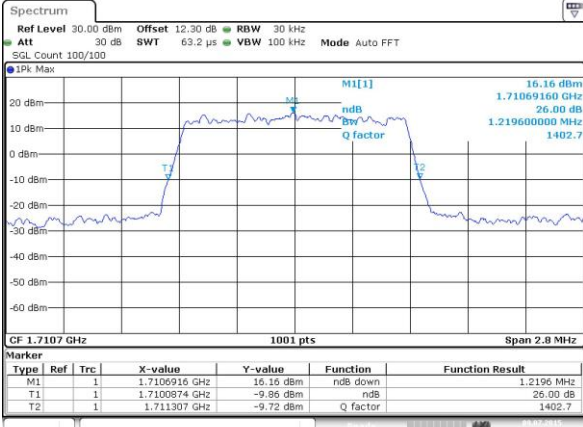
26dB Bandwidth

| Mode | LTE Band 4 : 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 | 1.22 | 1.22 | 3.06 | 3 | 4.91 | 4.89 | 9.65 | 9.69 | 14.6 | 14.33 | 20.42 | 20.06 |
| Middle CH | 1.24 | 1.24 | 3.07 | 3.06 | 4.84 | 5.01 | 9.81 | 9.65 | 14.48 | 14.24 | 20.14 | 20.14 |
| Highest CH | 1.24 | 1.22 | 3.05 | 3.05 | 4.94 | 4.89 | 9.77 | 9.71 | 14.51 | 14.45 | 20.14 | 20.14 |



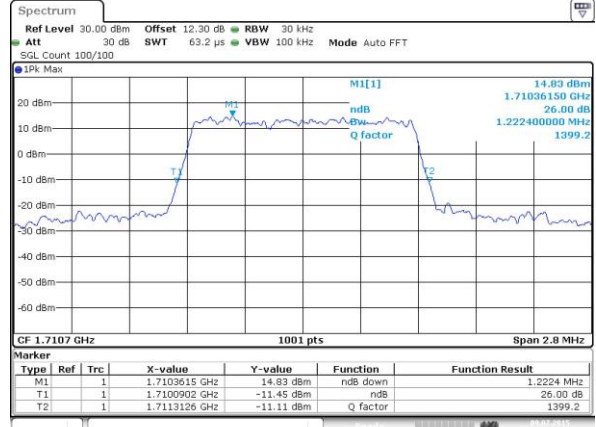
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



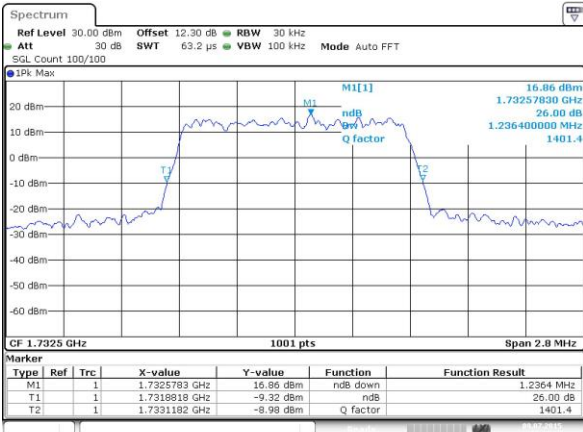
Date: 9_JUL.2015 12:13:56

Lowest Channel / 1.4MHz / 16QAM



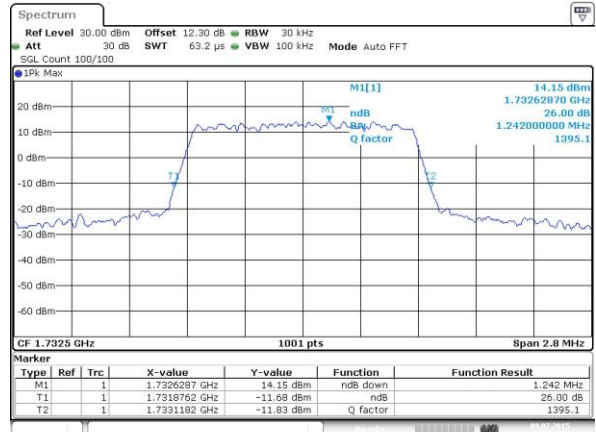
Date: 9_JUL.2015 12:14:07

Middle Channel / 1.4MHz / QPSK



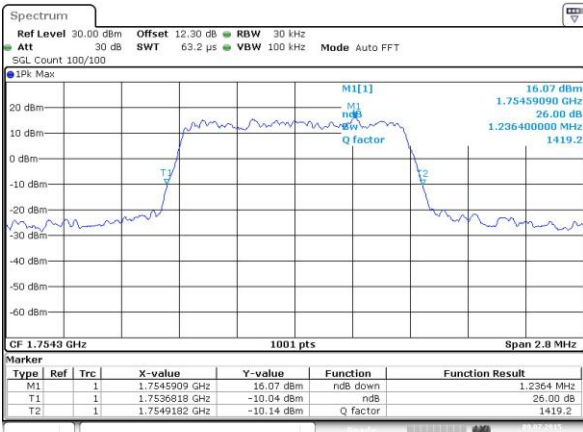
Date: 9_JUL.2015 12:14:19

Middle Channel / 1.4MHz / 16QAM



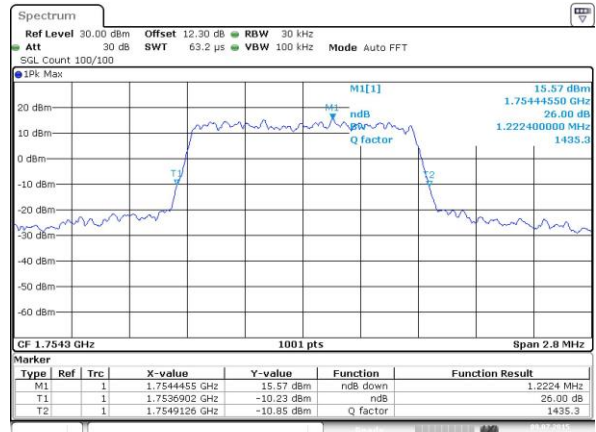
Date: 9_JUL.2015 12:14:31

Highest Channel / 1.4MHz / QPSK



Date: 9_JUL.2015 12:14:43

Highest Channel / 1.4MHz / 16QAM

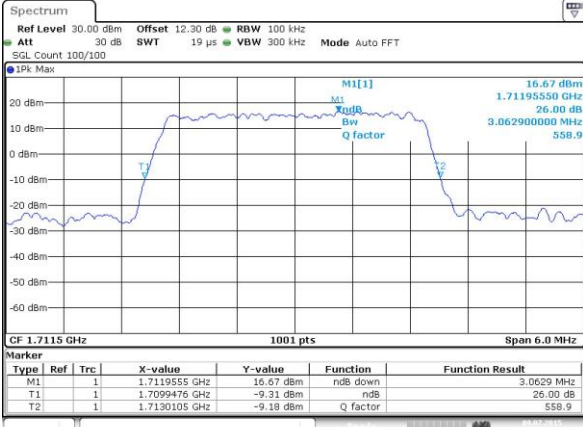


Date: 9_JUL.2015 12:14:54



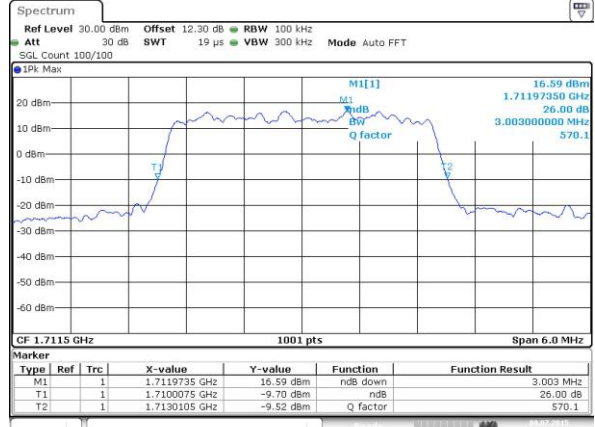
LTE Band 4

Lowest Channel / 3MHz / QPSK



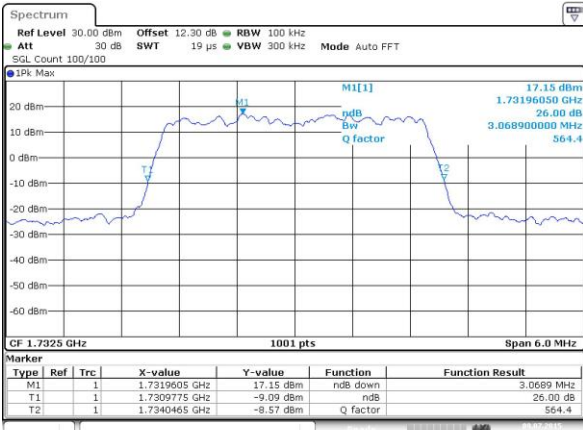
Date: 9,JUL,2015 12:15:06

Lowest Channel / 3MHz / 16QAM



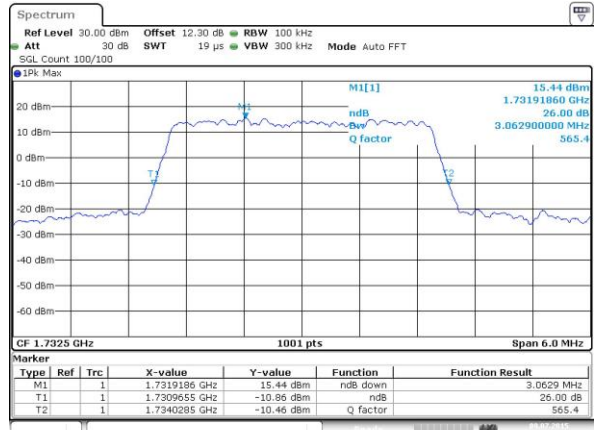
Date: 9,JUL,2015 12:15:18

Middle Channel / 3MHz / QPSK



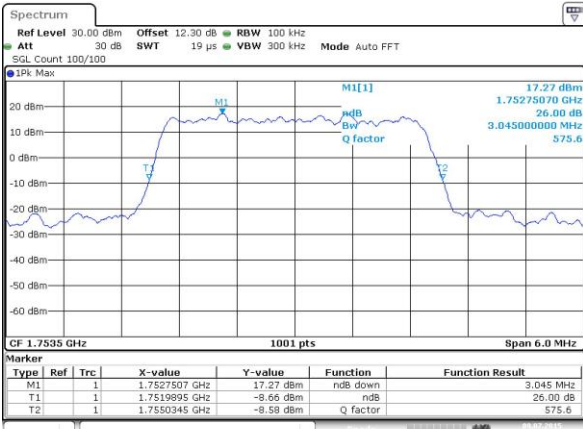
Date: 9,JUL,2015 12:15:20

Middle Channel / 3MHz / 16QAM



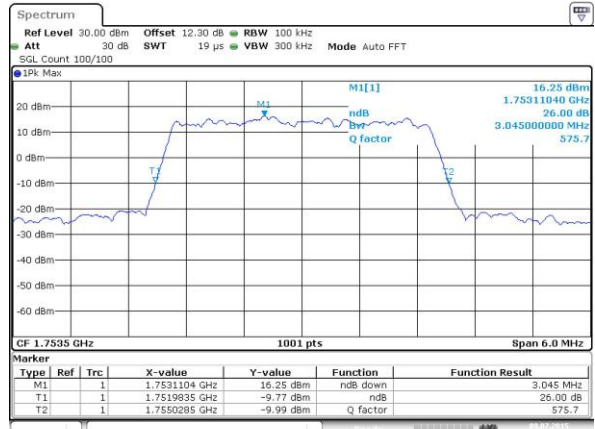
Date: 9,JUL,2015 12:15:41

Highest Channel / 3MHz / QPSK



Date: 9,JUL,2015 12:15:52

Highest Channel / 3MHz / 16QAM

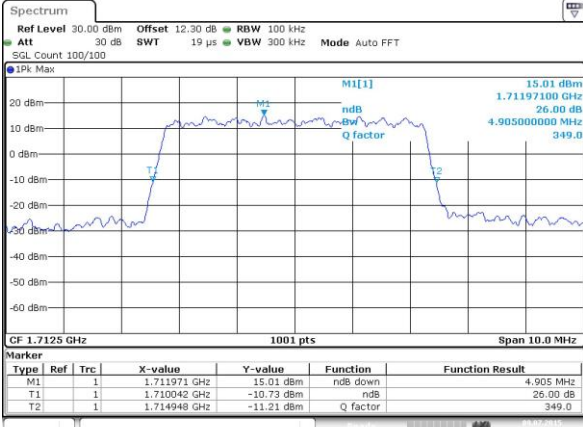


Date: 9,JUL,2015 12:16:04



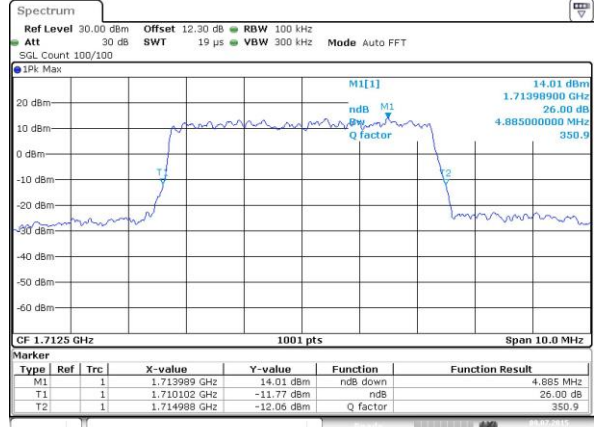
LTE Band 4

Lowest Channel / 5MHz / QPSK



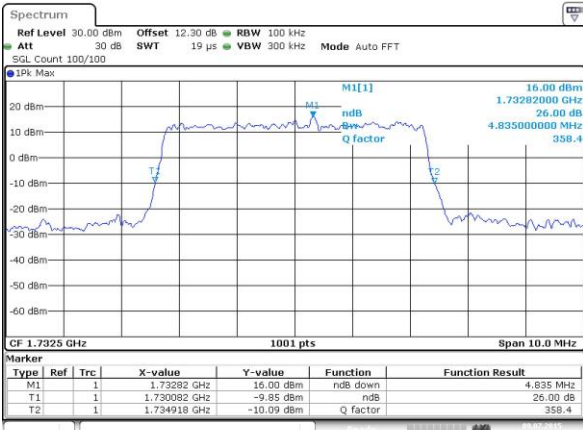
Date: 9_JUL.2015 12:16:16

Lowest Channel / 5MHz / 16QAM



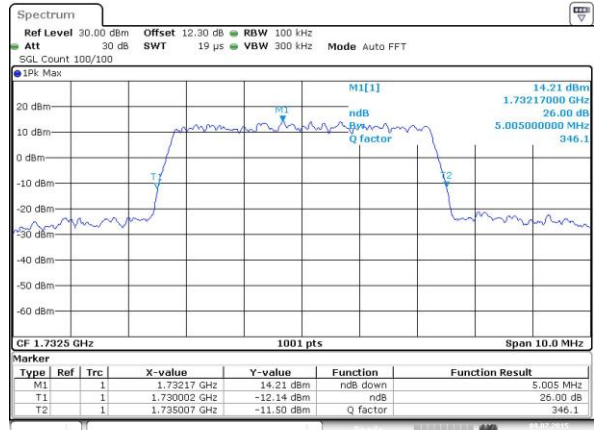
Date: 9_JUL.2015 12:16:27

Middle Channel / 5MHz / QPSK



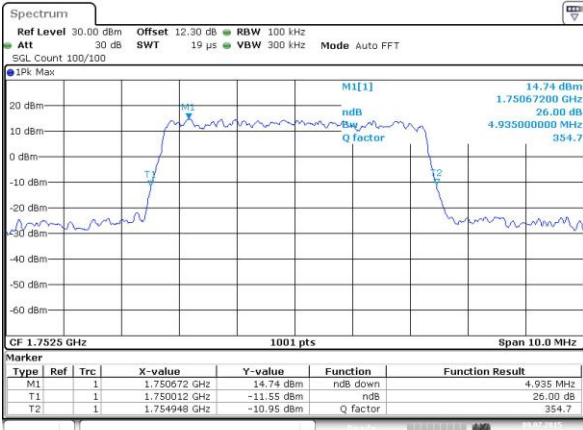
Date: 9_JUL.2015 12:16:39

Middle Channel / 5MHz / 16QAM



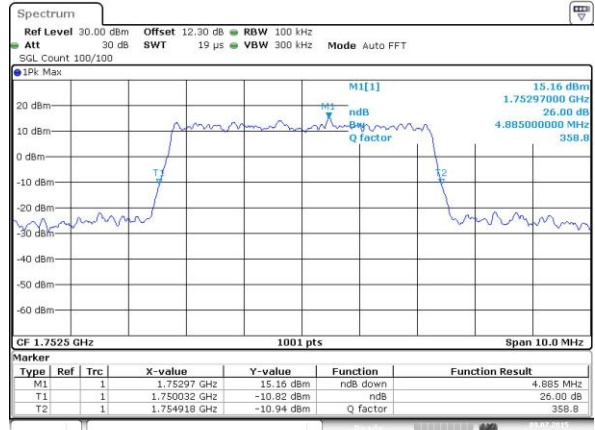
Date: 9_JUL.2015 12:16:51

Highest Channel / 5MHz / QPSK



Date: 9_JUL.2015 12:17:02

Highest Channel / 5MHz / 16QAM

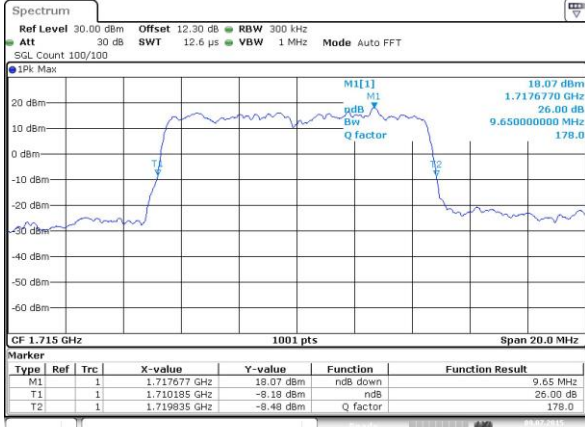


Date: 9_JUL.2015 12:17:14



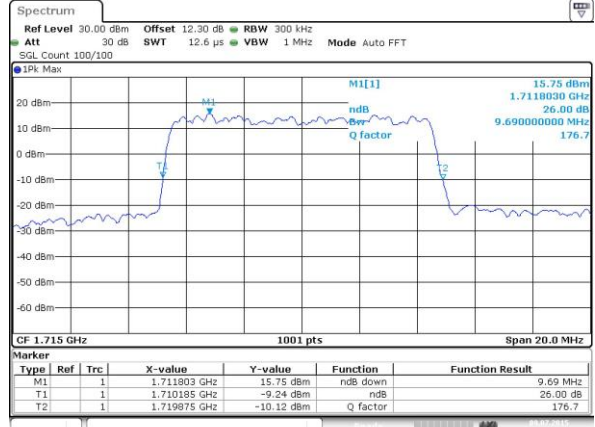
LTE Band 4

Lowest Channel / 10MHz / QPSK



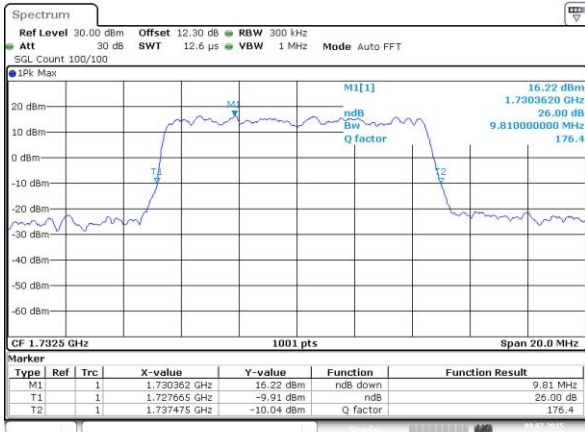
Date: 9_JUL.2015 12:17:26

Lowest Channel / 10MHz / 16QAM



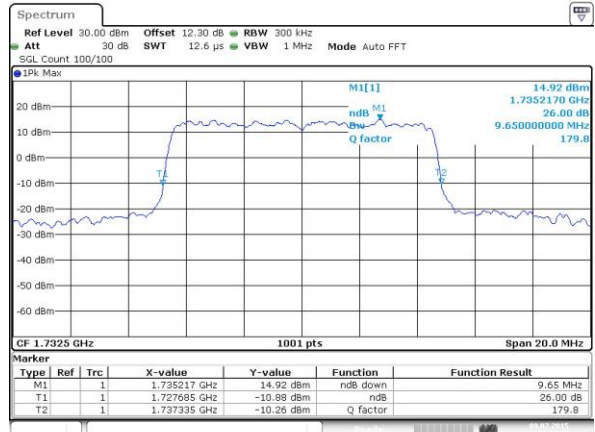
Date: 9_JUL.2015 12:17:37

Middle Channel / 10MHz / QPSK



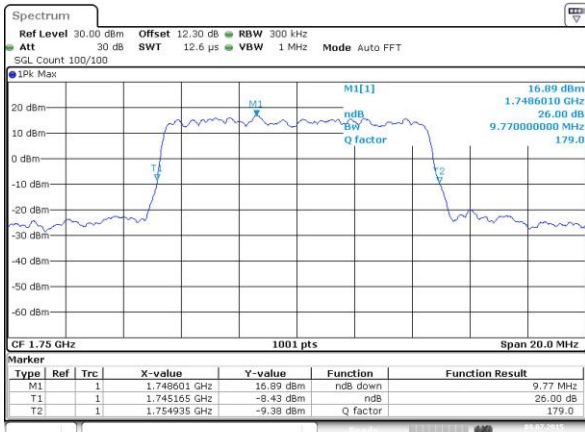
Date: 9_JUL.2015 12:17:49

Middle Channel / 10MHz / 16QAM



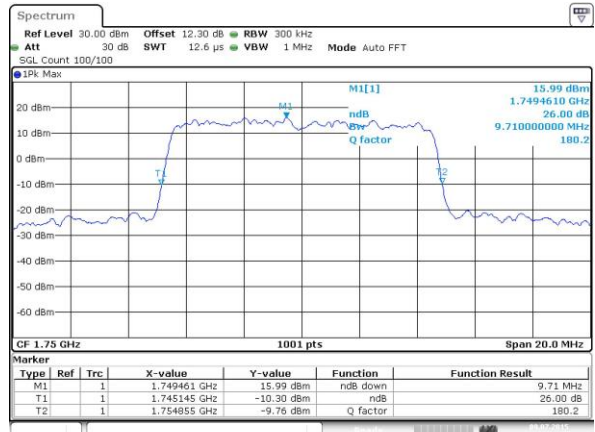
Date: 9_JUL.2015 12:18:01

Highest Channel / 10MHz / QPSK



Date: 9_JUL.2015 12:18:12

Highest Channel / 10MHz / 16QAM

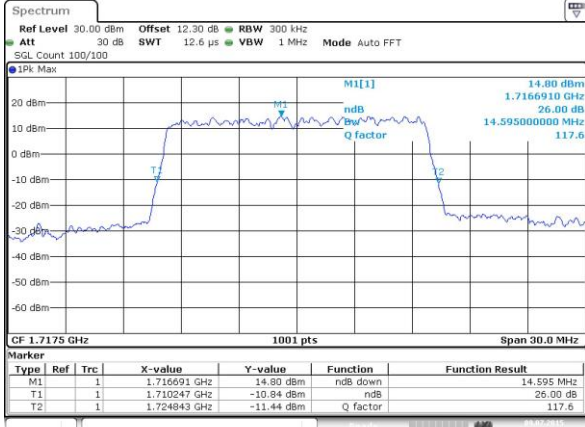


Date: 9_JUL.2015 12:18:24



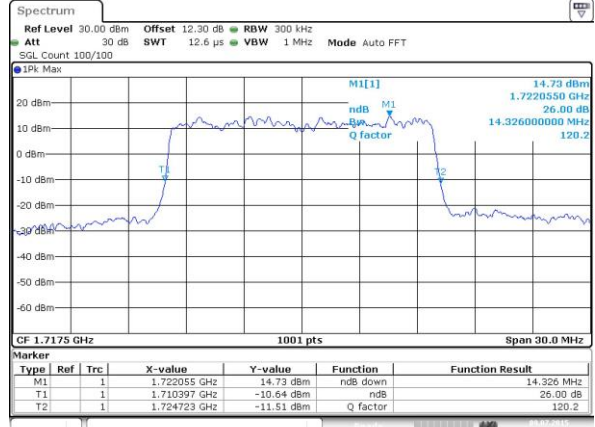
LTE Band 4

Lowest Channel / 15MHz / QPSK



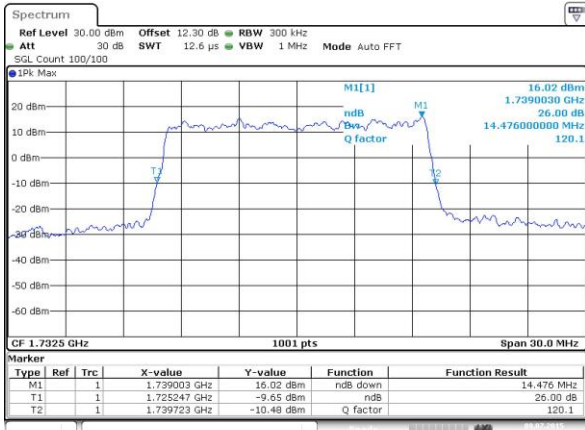
Date: 9,JUL,2015 12:18:36

Lowest Channel / 15MHz / 16QAM



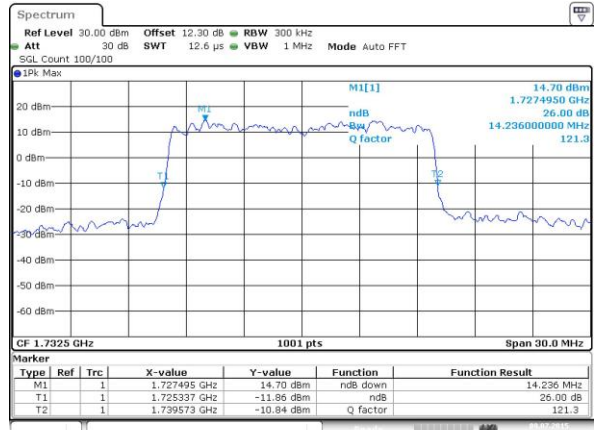
Date: 9,JUL,2015 12:18:47

Middle Channel / 15MHz / QPSK



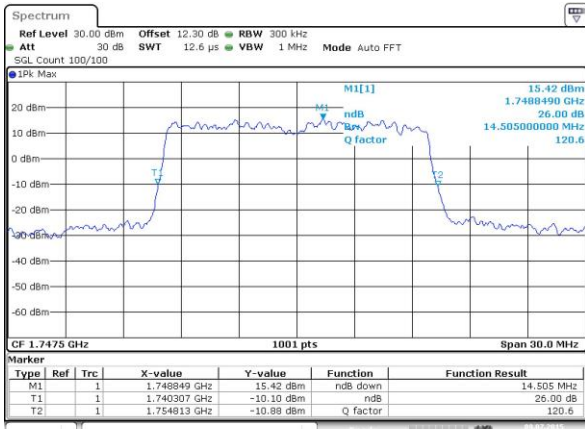
Date: 9,JUL,2015 12:18:59

Middle Channel / 15MHz / 16QAM



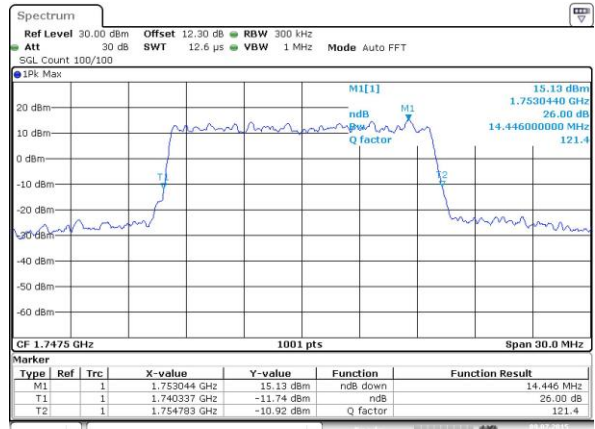
Date: 9,JUL,2015 12:19:11

Highest Channel / 15MHz / QPSK



Date: 9,JUL,2015 12:19:22

Highest Channel / 15MHz / 16QAM

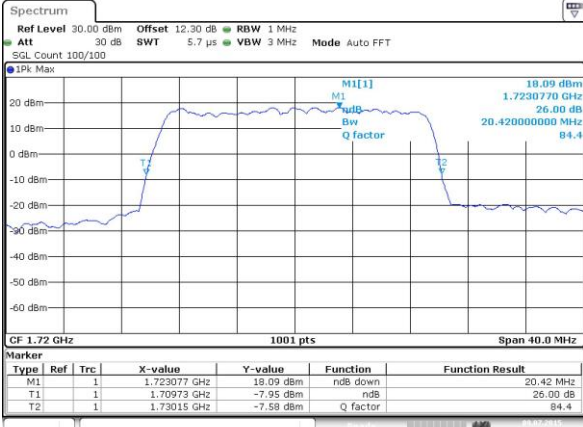


Date: 9,JUL,2015 12:19:34



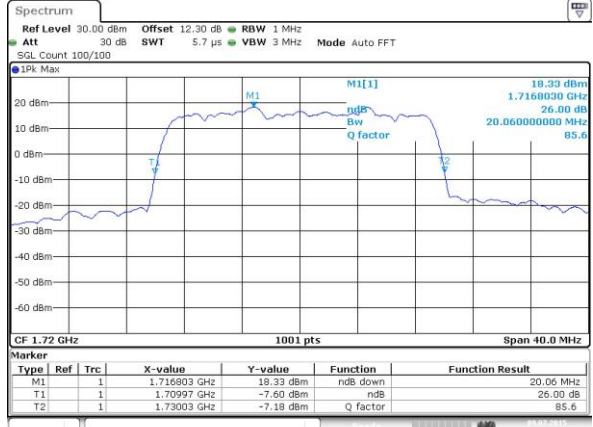
LTE Band 4

Lowest Channel / 20MHz / QPSK



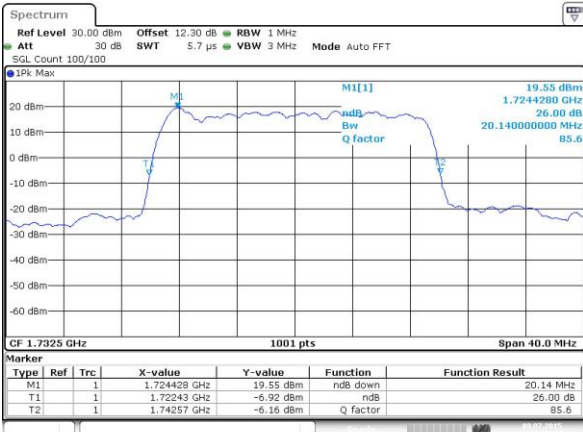
Date: 9,JUL,2015 12:19:46

Lowest Channel / 20MHz / 16QAM



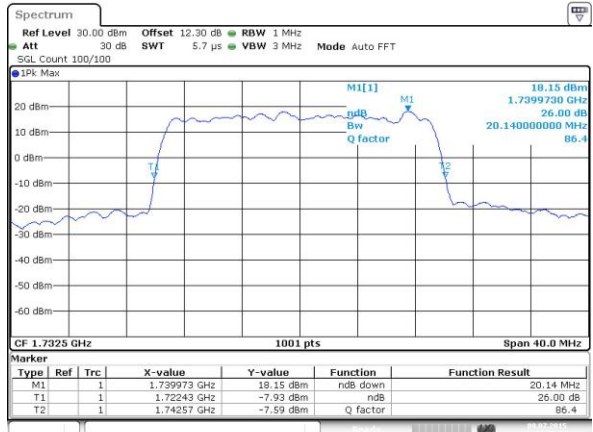
Date: 9,JUL,2015 12:19:57

Middle Channel / 20MHz / QPSK



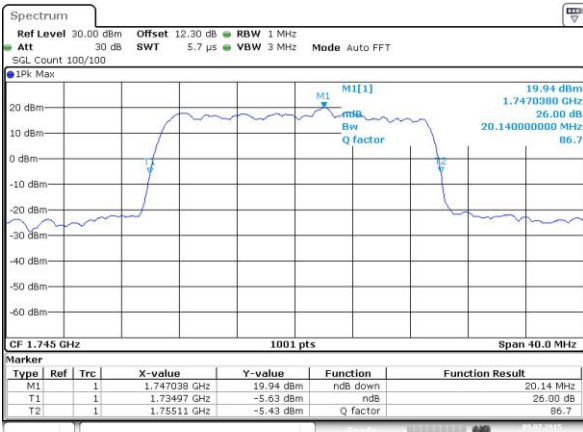
Date: 9,JUL,2015 12:20:09

Middle Channel / 20MHz / 16QAM



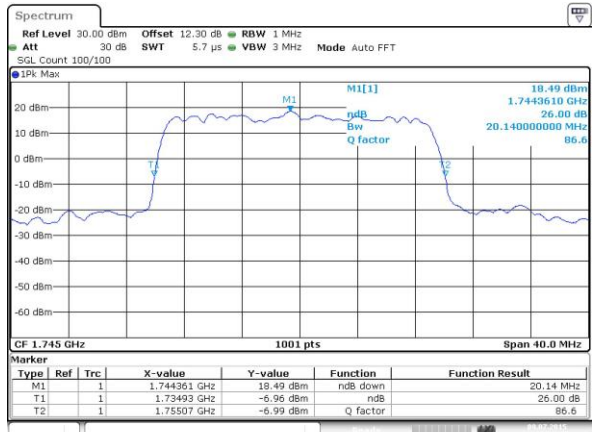
Date: 9,JUL,2015 12:20:21

Highest Channel / 20MHz / QPSK



Date: 9,JUL,2015 12:20:32

Highest Channel / 20MHz / 16QAM



Date: 9,JUL,2015 12:20:44



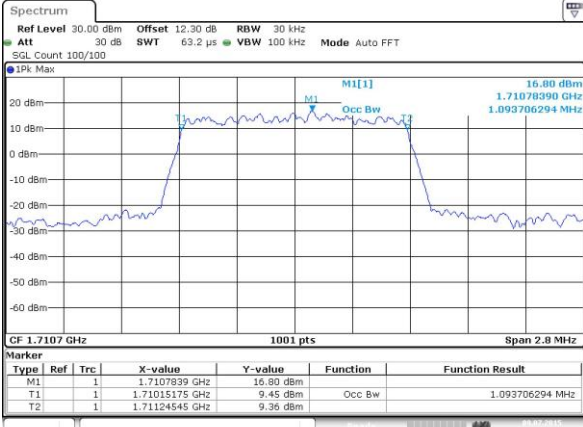
Occupied Bandwidth

| Mode | LTE Band 4 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | | | | | | | | | | | | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.09 | 2.69 | 2.74 | 4.49 | 4.48 | 9.05 | 8.97 | 13.49 | 13.43 | 18.3 | 18.42 |
| Middle CH | 1.1 | 1.09 | 2.71 | 2.7 | 4.51 | 4.49 | 9.01 | 9.03 | 13.52 | 13.43 | 18.46 | 18.54 |
| Highest CH | 1.09 | 1.09 | 2.72 | 2.7 | 4.49 | 4.48 | 9.01 | 9.03 | 13.43 | 13.49 | 18.46 | 18.34 |



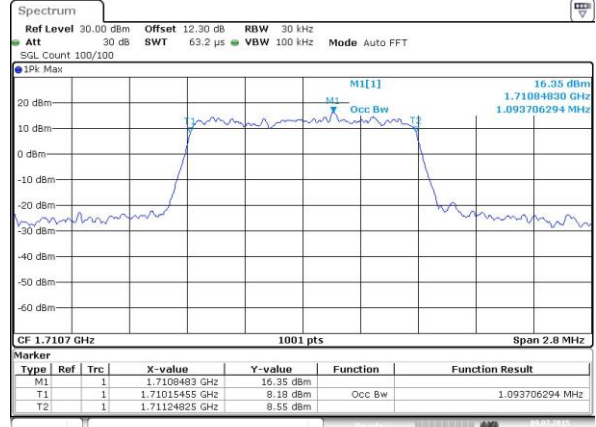
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



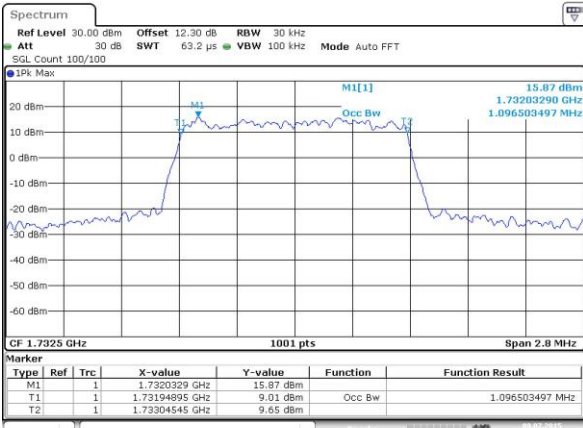
Date: 9 JUL 2015 12:06:54

Lowest Channel / 1.4MHz / 16QAM



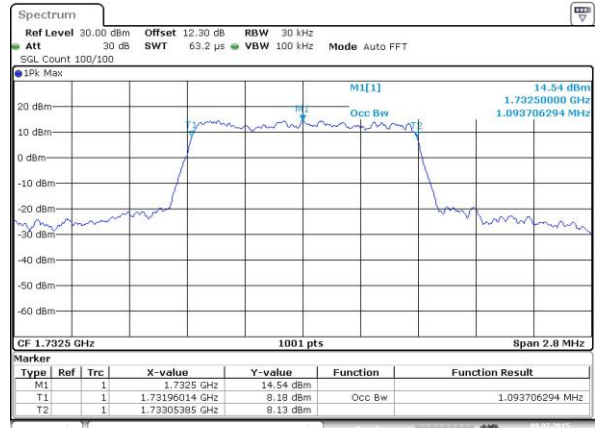
Date: 9 JUL 2015 12:07:06

Middle Channel / 1.4MHz / QPSK



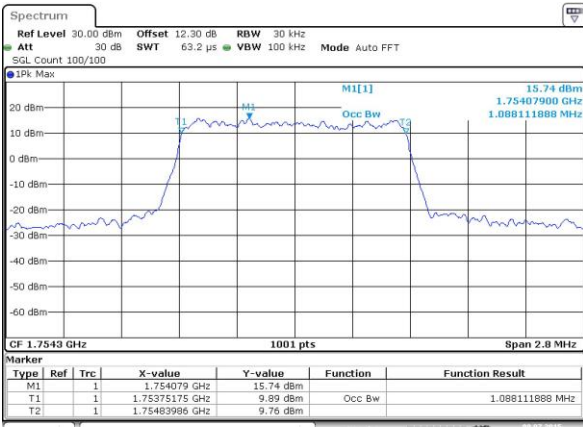
Date: 9 JUL 2015 12:07:17

Middle Channel / 1.4MHz / 16QAM



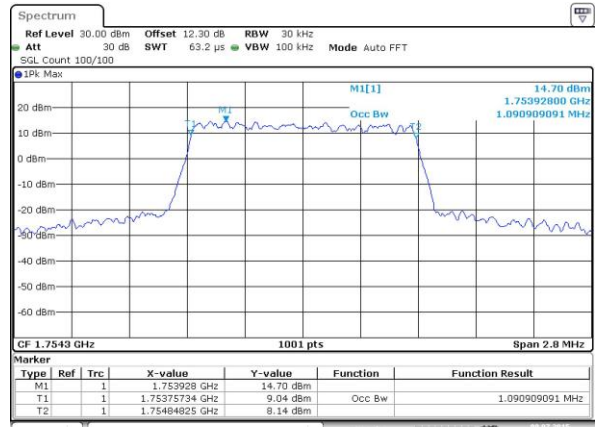
Date: 9 JUL 2015 12:07:29

Highest Channel / 1.4MHz / QPSK



Date: 9 JUL 2015 12:07:41

Highest Channel / 1.4MHz / 16QAM

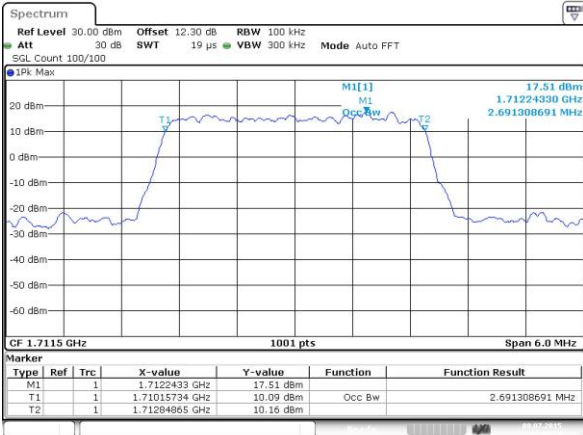


Date: 9 JUL 2015 12:07:52



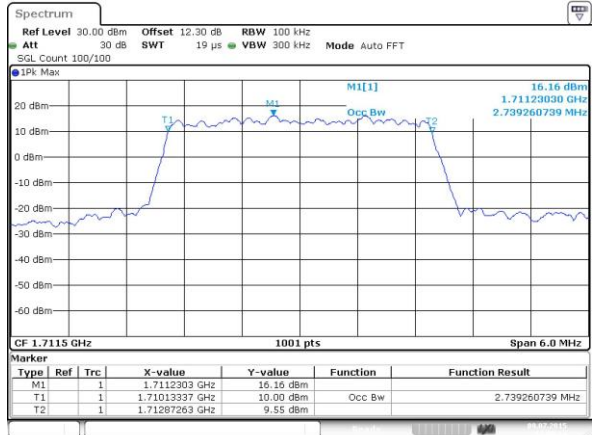
LTE Band 4

Lowest Channel / 3MHz / QPSK



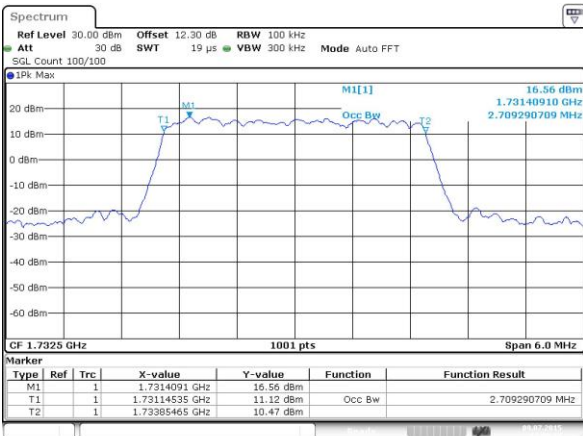
Date: 9,JUL,2015 12:08:04

Lowest Channel / 3MHz / 16QAM



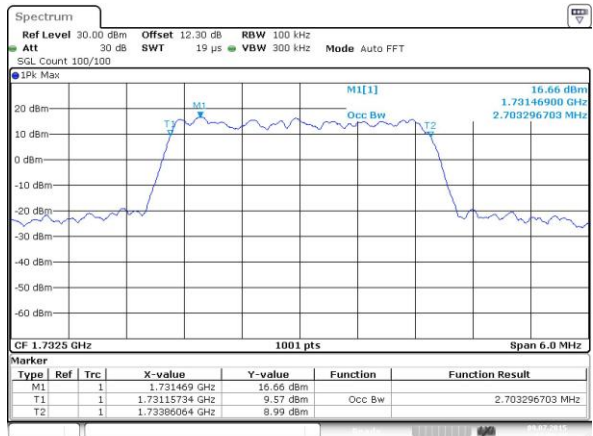
Date: 9,JUL,2015 12:08:16

Middle Channel / 3MHz / QPSK



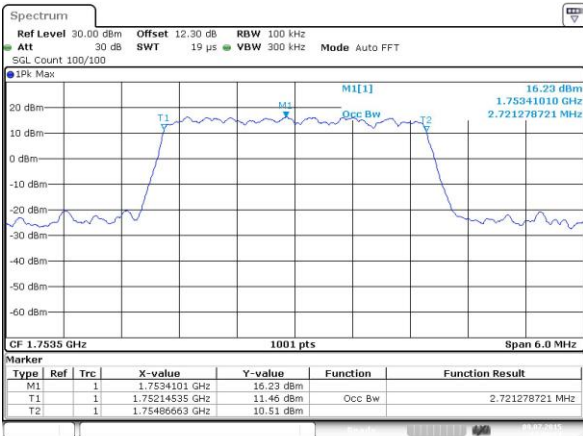
Date: 9,JUL,2015 12:08:28

Middle Channel / 3MHz / 16QAM



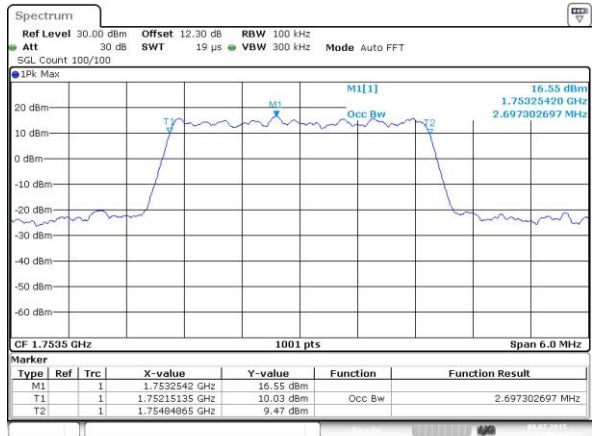
Date: 9,JUL,2015 12:08:39

Highest Channel / 3MHz / QPSK



Date: 9,JUL,2015 12:08:51

Highest Channel / 3MHz / 16QAM

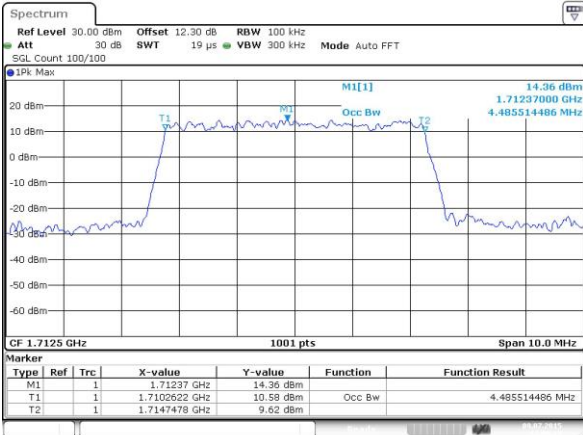


Date: 9,JUL,2015 12:09:03



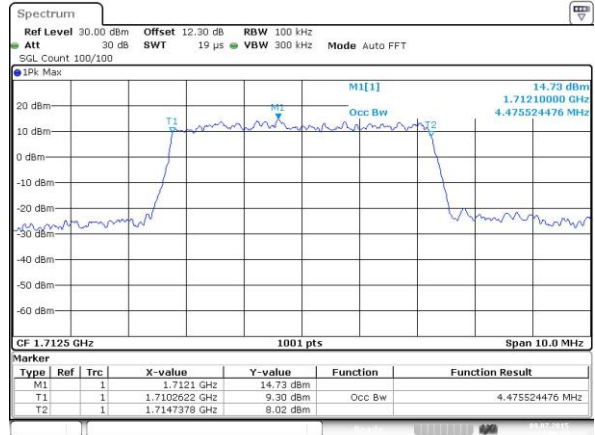
LTE Band 4

Lowest Channel / 5MHz / QPSK



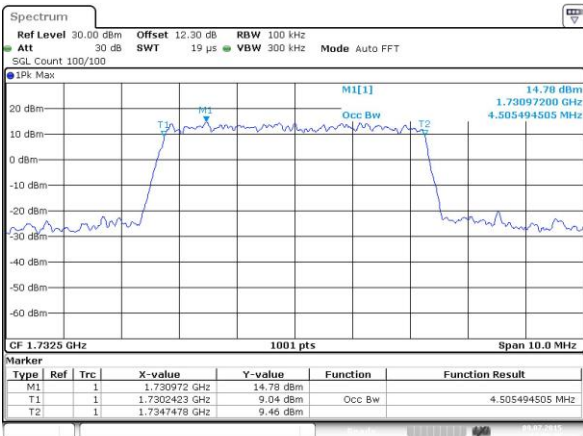
Date: 9 JUL 2015 12:09:14

Lowest Channel / 5MHz / 16QAM



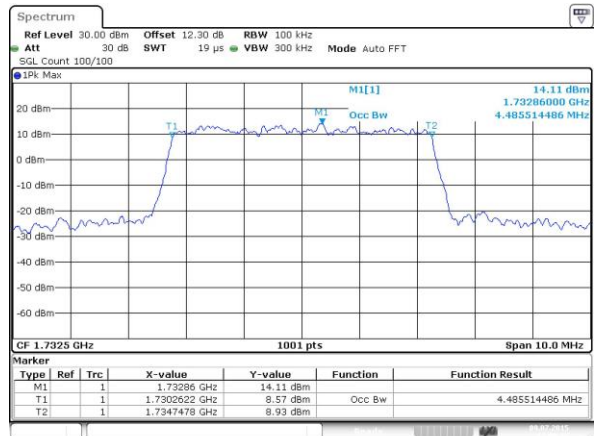
Date: 9 JUL 2015 12:09:26

Middle Channel / 5MHz / QPSK



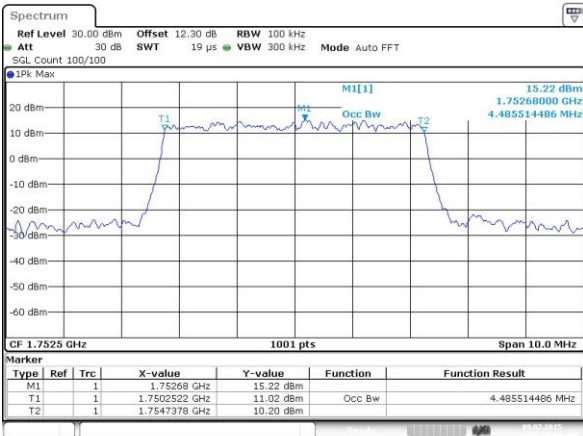
Date: 9 JUL 2015 12:09:38

Middle Channel / 5MHz / 16QAM



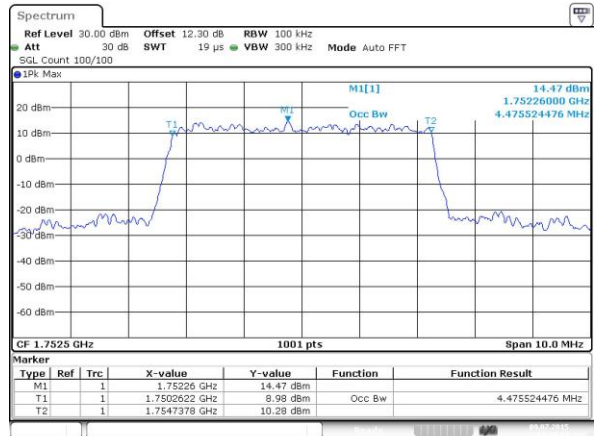
Date: 9 JUL 2015 12:09:50

Highest Channel / 5MHz / QPSK



Date: 9 JUL 2015 12:10:01

Highest Channel / 5MHz / 16QAM



Date: 9 JUL 2015 12:10:13