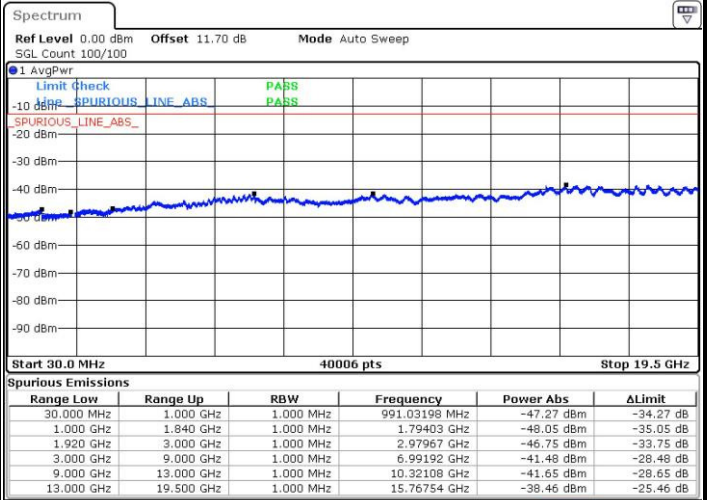
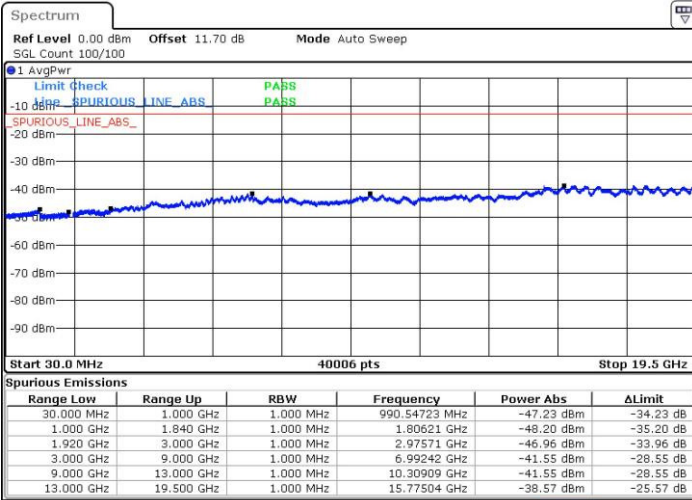




LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

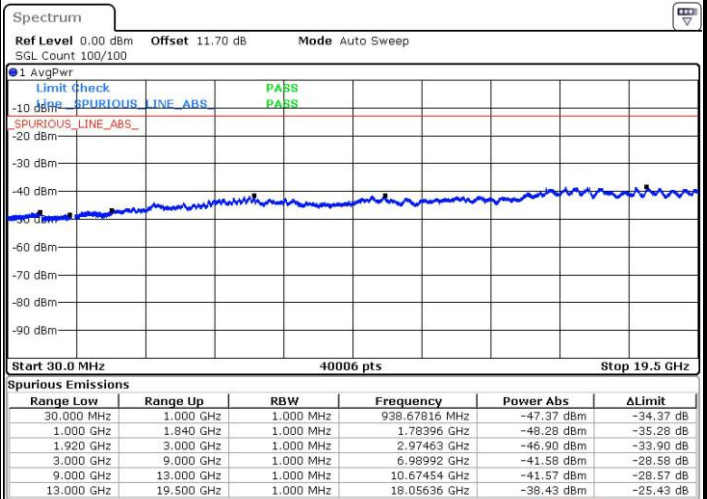
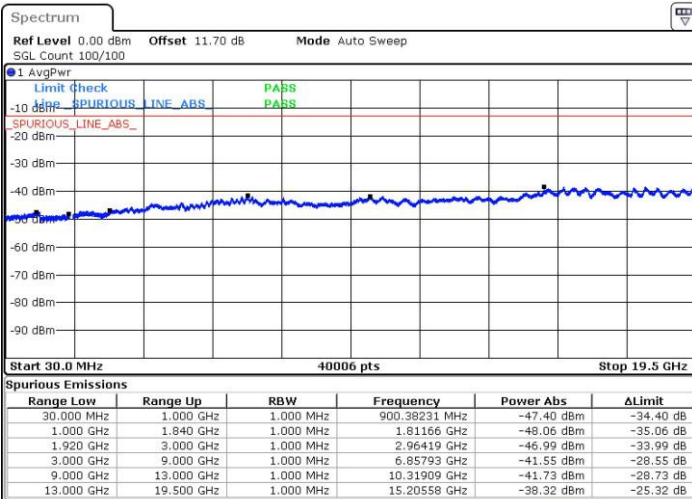


Date: 18.MAR.2017 00:35:27

Date: 18.MAR.2017 00:36:21

Highest Channel / QPSK

Highest Channel / 16QAM



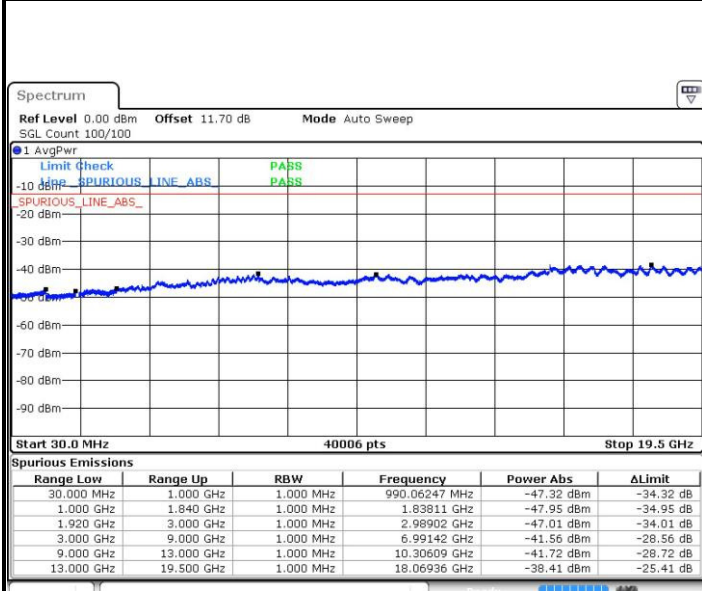
Date: 18.MAR.2017 00:42:34

Date: 18.MAR.2017 00:43:28



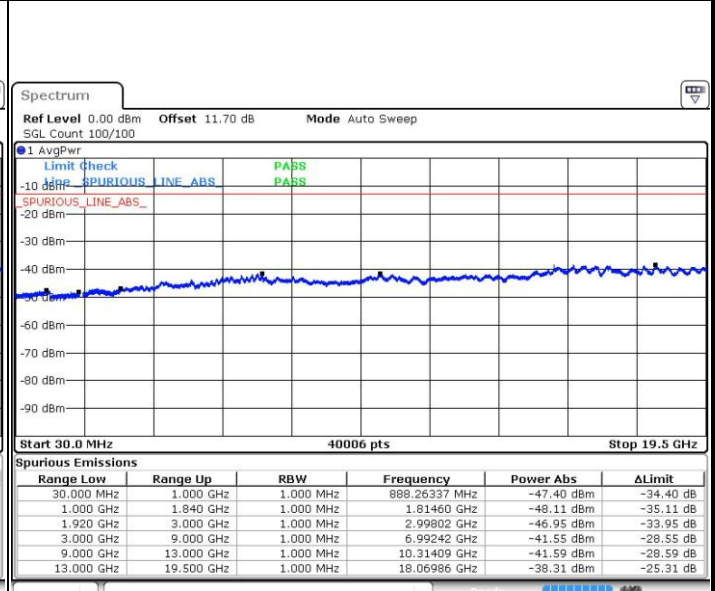
LTE Band 2 / 15MHz

Lowest Channel / QPSK



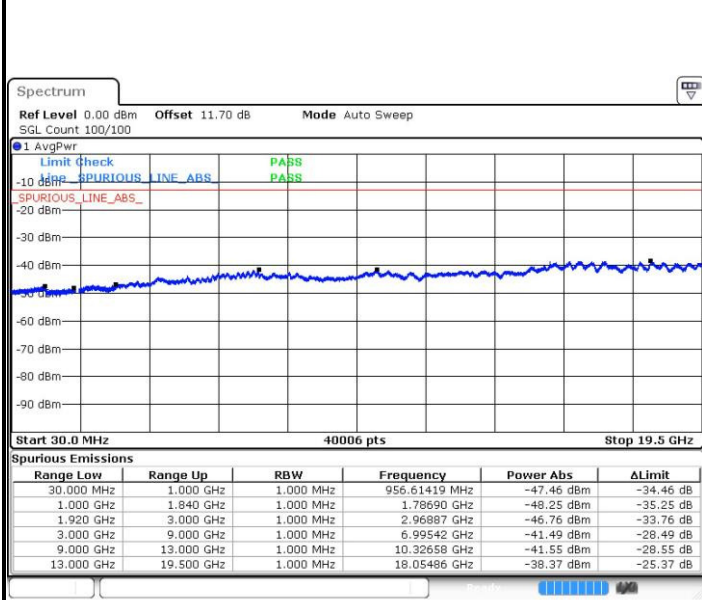
Date: 18.MAR.2017 00:49:41

Lowest Channel / 16QAM



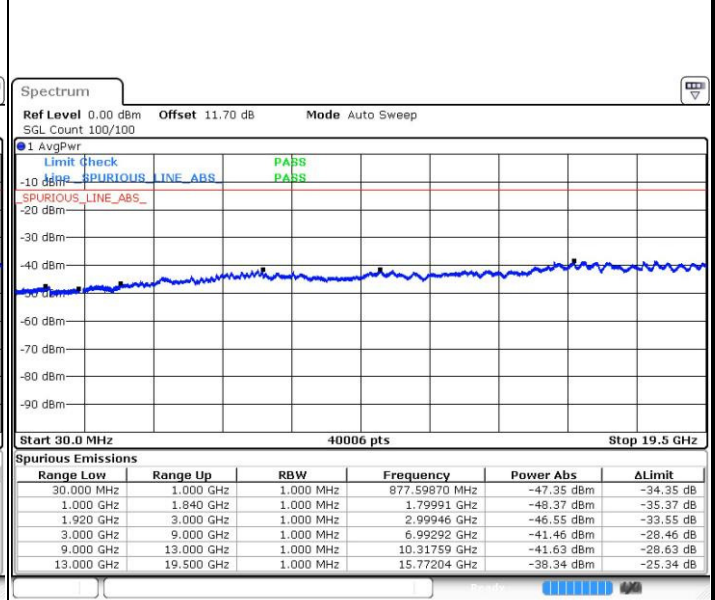
Date: 18.MAR.2017 00:50:36

Middle Channel / QPSK



Date: 18.MAR.2017 00:52:12

Middle Channel / 16QAM



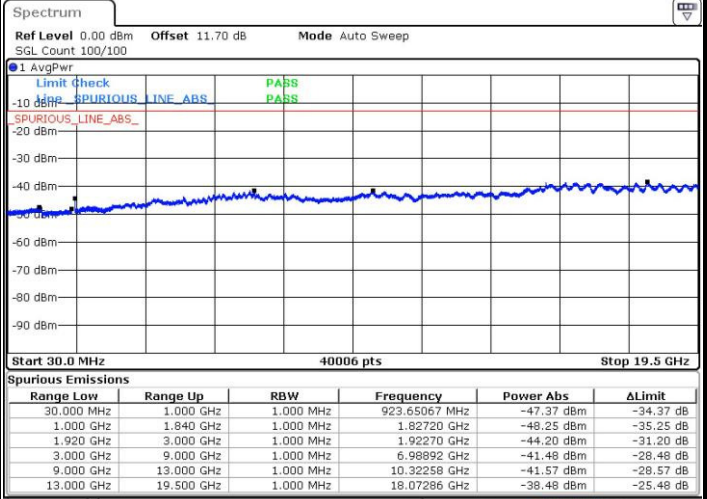
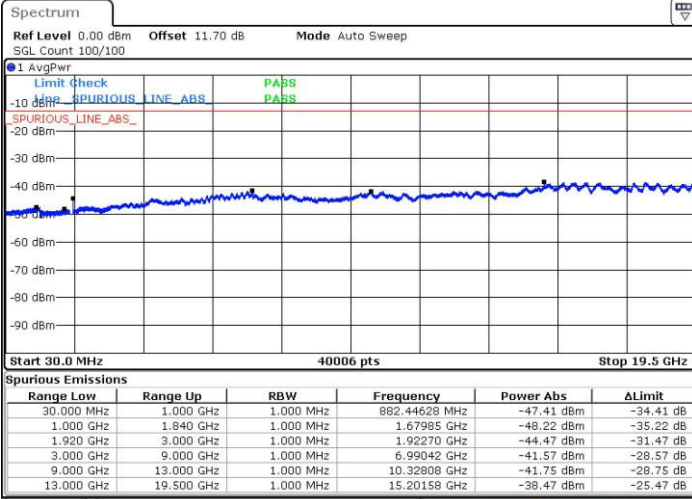
Date: 18.MAR.2017 00:53:06



LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



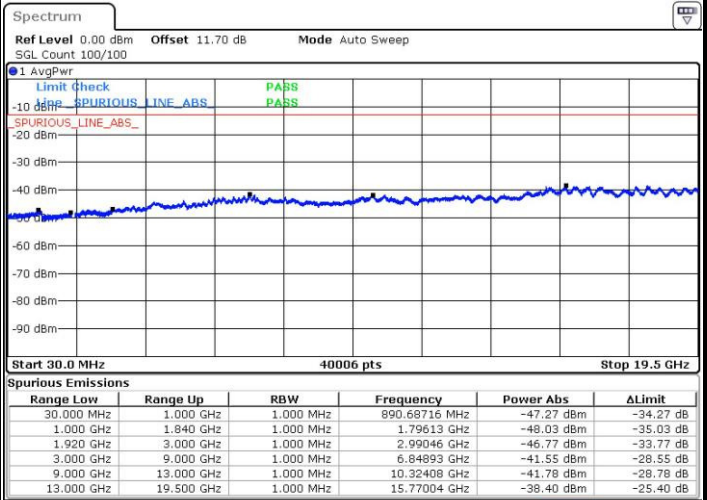
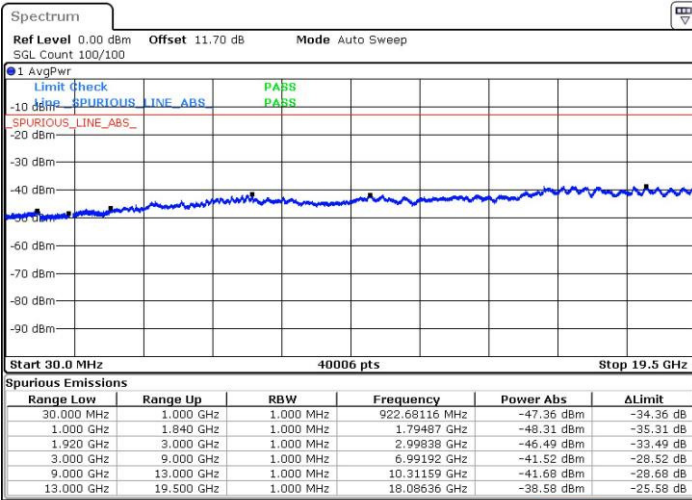
Date: 18.MAR.2017 00:59:19

Date: 18.MAR.2017 01:00:13

LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 18.MAR.2017 01:06:26

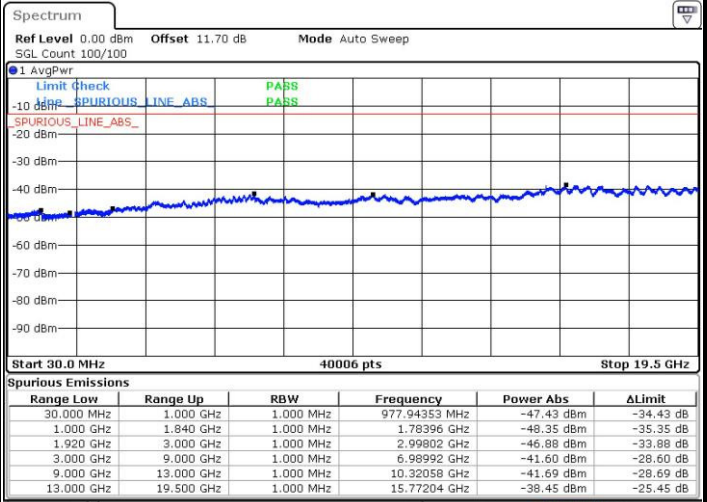
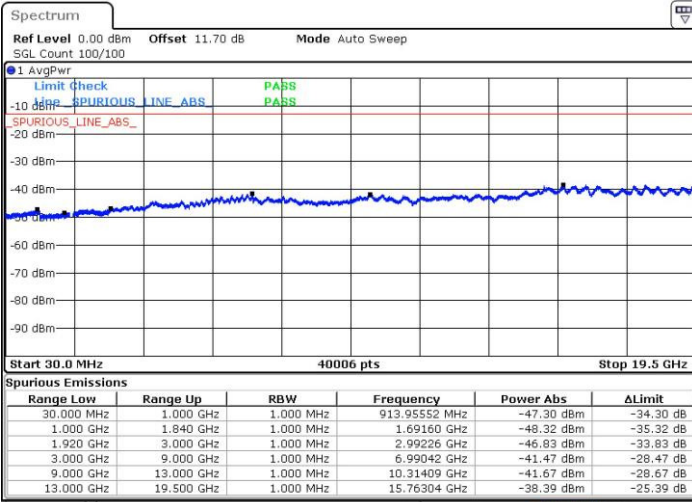
Date: 18.MAR.2017 01:07:20



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

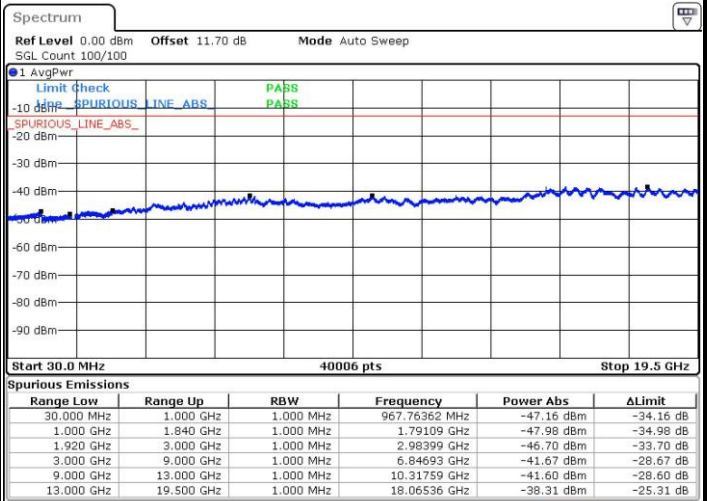
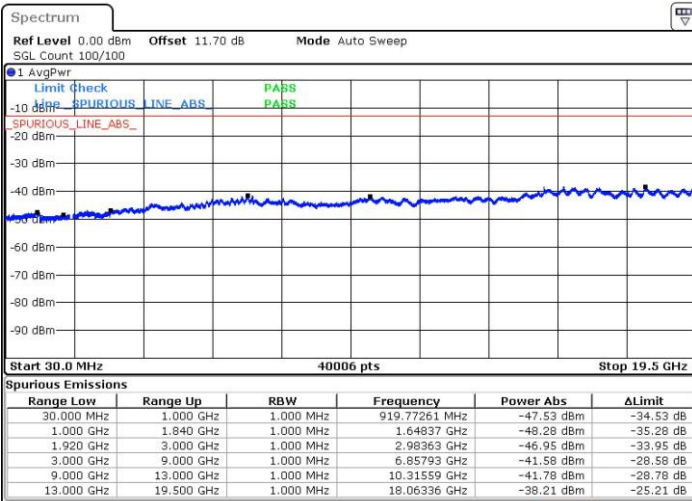


Date: 18.MAR.2017 01:08:56

Date: 18.MAR.2017 01:09:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.MAR.2017 01:16:04

Date: 18.MAR.2017 01:16:58



Frequency Stability

| Test Conditions | | LTE Band 2 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0070 | PASS |
| 40 | Normal Voltage | 0.0073 | |
| 30 | Normal Voltage | 0.0076 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0076 | |
| -10 | Normal Voltage | 0.0001 | |
| -20 | Normal Voltage | 0.0002 | |
| -30 | Normal Voltage | 0.0077 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0008 | |

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

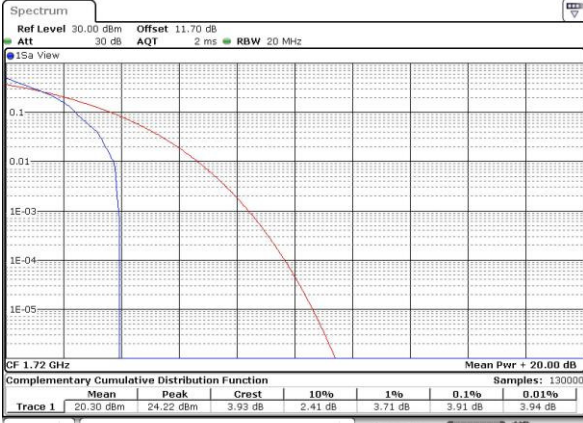
Peak-to-Average Ratio

| Mode | LTE Band 4 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.91 | 4.99 | 4.52 | 6.06 | PASS |
| Middle CH | 4.52 | 4.41 | 5.13 | 5.42 | |
| Highest CH | 3.19 | 4.46 | 4.03 | 5.45 | |



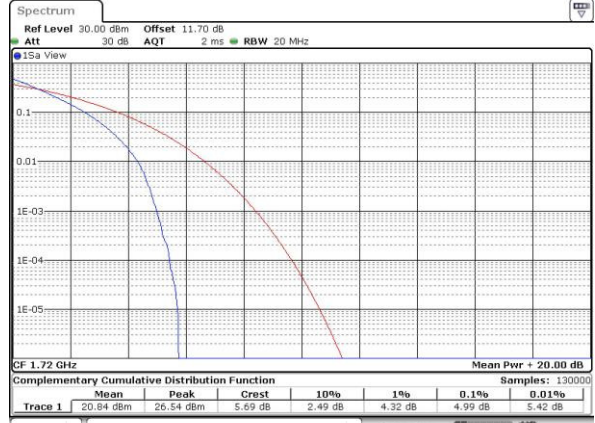
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 20 MAR 2017 14:01:20

Lowest Channel / Full RB



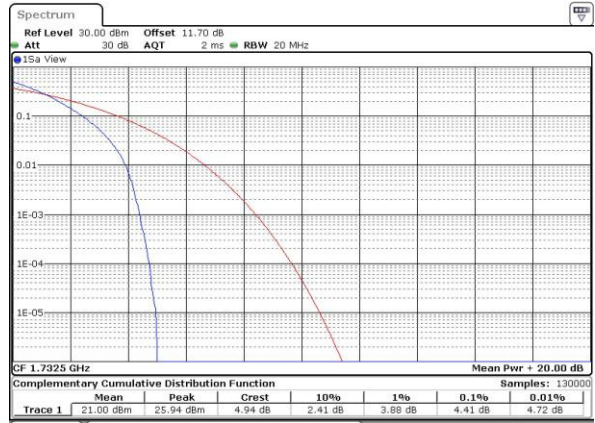
Date: 20 MAR 2017 14:01:29

Middle Channel / 1RB



Date: 20 MAR 2017 14:01:39

Middle Channel / Full RB



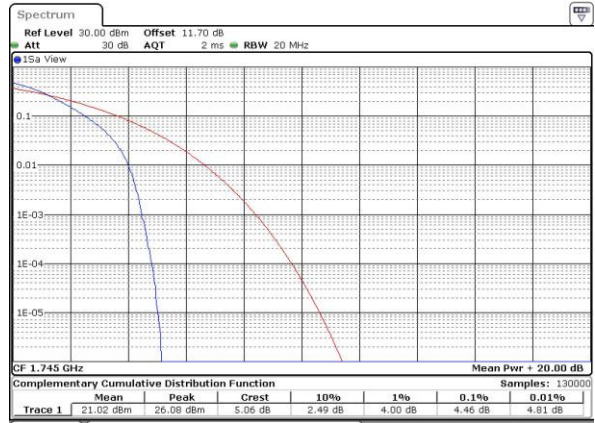
Date: 20 MAR 2017 14:01:53

Highest Channel / 1RB



Date: 20 MAR 2017 14:02:05

Highest Channel / Full RB



Date: 20 MAR 2017 14:02:15



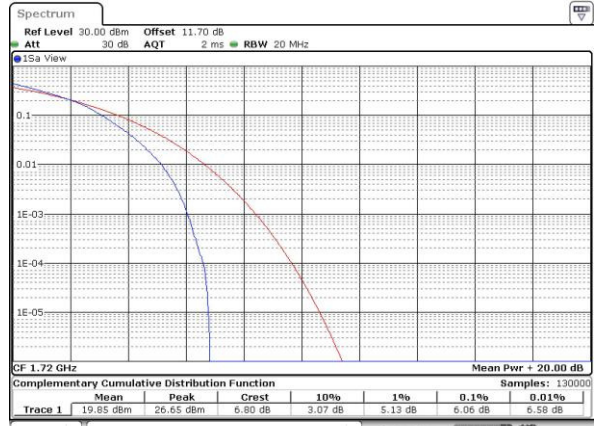
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 20 MAR 2017 13:56:13

Lowest Channel / Full RB



Date: 20 MAR 2017 13:57:44

Middle Channel / 1RB



Date: 20 MAR 2017 14:00:42

Middle Channel / Full RB



Date: 20 MAR 2017 14:00:51

Highest Channel / 1RB



Date: 20 MAR 2017 14:01:01

Highest Channel / Full RB



Date: 20 MAR 2017 14:01:10



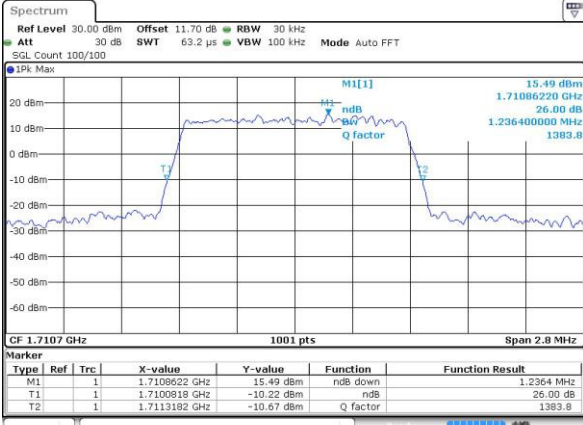
26dB Bandwidth

| Mode | LTE Band 4 : 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 | 1.24 | 1.22 | 3.01 | 3.03 | 4.93 | 4.89 | 9.71 | 9.71 | 14.42 | 14.45 | 20.30 | 20.30 |
| Middle CH | 1.23 | 1.23 | 3.00 | 3.00 | 4.88 | 4.99 | 9.87 | 9.75 | 14.39 | 14.33 | 20.14 | 20.14 |
| Highest CH | 1.23 | 1.23 | 3.00 | 3.00 | 4.95 | 4.87 | 9.83 | 9.83 | 14.45 | 14.39 | 20.14 | 19.94 |



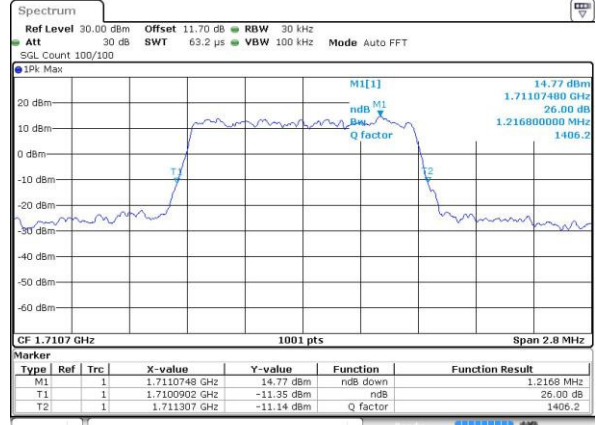
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



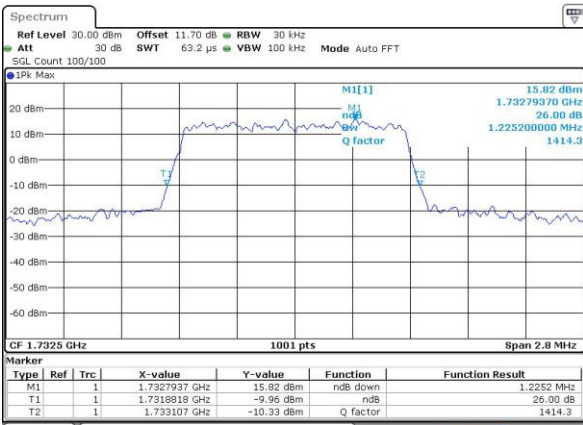
Date: 20 MAR 2017 13:37:35

Lowest Channel / 1.4MHz / 16QAM



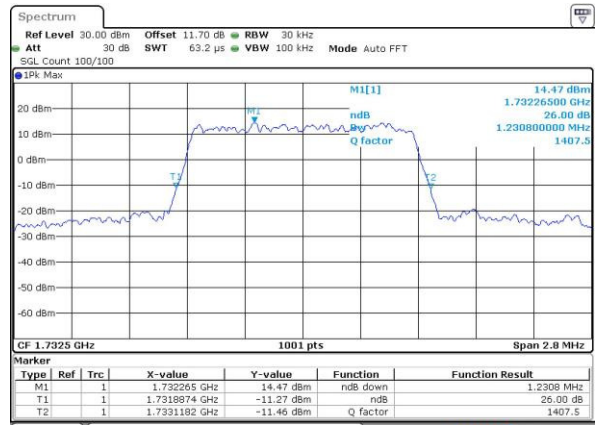
Date: 20 MAR 2017 13:37:46

Middle Channel / 1.4MHz / QPSK



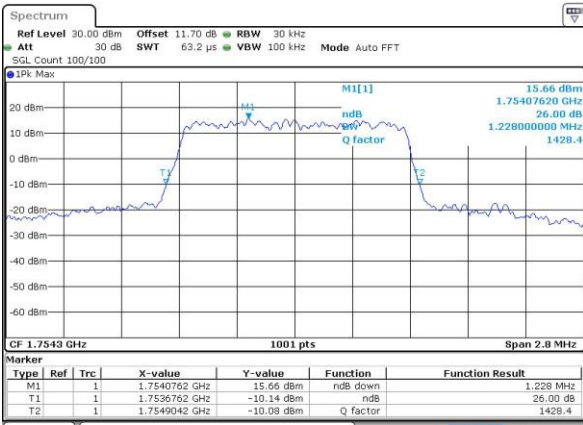
Date: 20 MAR 2017 13:44:43

Middle Channel / 1.4MHz / 16QAM



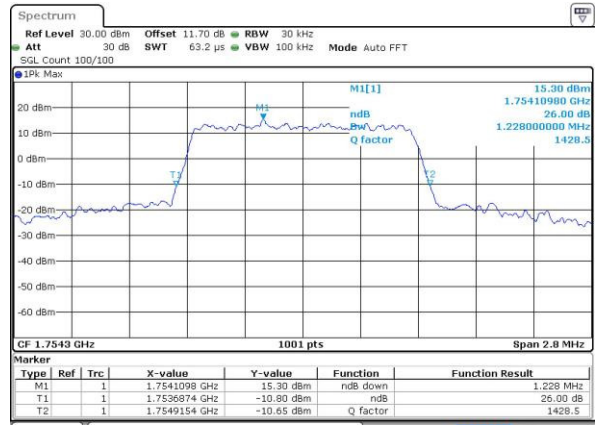
Date: 20 MAR 2017 13:44:53

Highest Channel / 1.4MHz / QPSK



Date: 20 MAR 2017 13:47:14

Highest Channel / 1.4MHz / 16QAM

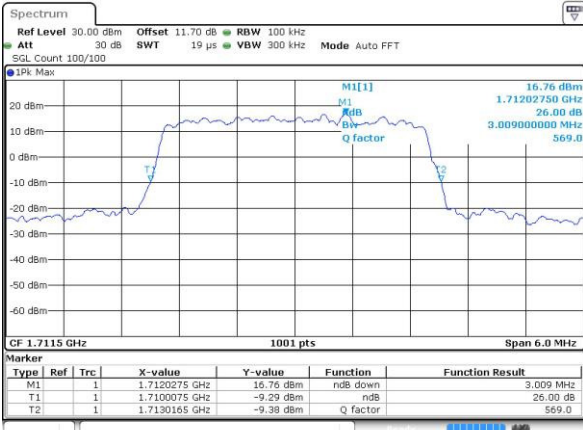


Date: 20 MAR 2017 13:47:24



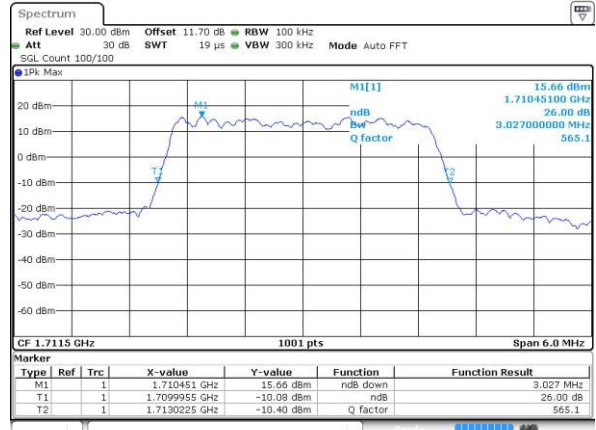
LTE Band 4

Lowest Channel / 3MHz / QPSK



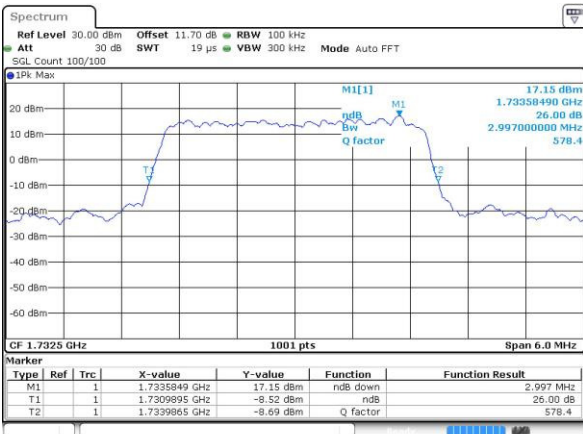
Date: 20 MAR 2017 10:45:59

Lowest Channel / 3MHz / 16QAM



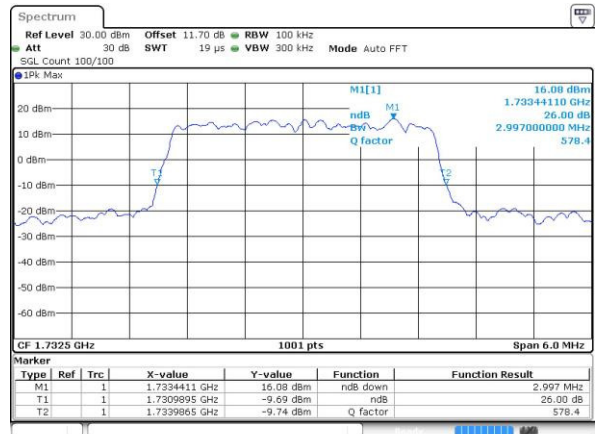
Date: 20 MAR 2017 10:46:09

Middle Channel / 3MHz / QPSK



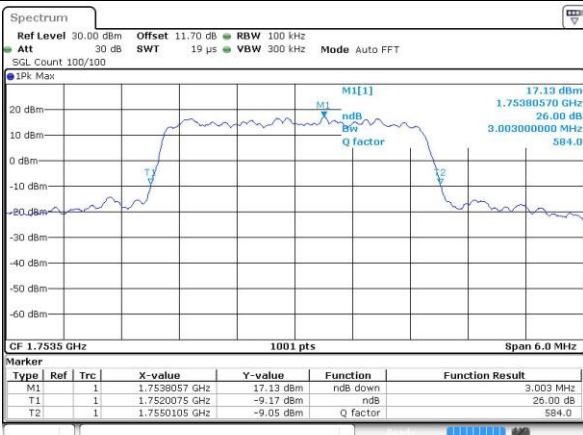
Date: 20 MAR 2017 10:53:07

Middle Channel / 3MHz / 16QAM



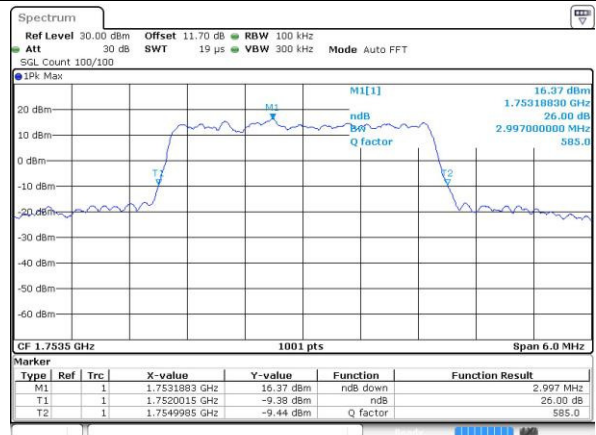
Date: 20 MAR 2017 10:53:18

Highest Channel / 3MHz / QPSK



Date: 20 MAR 2017 10:55:38

Highest Channel / 3MHz / 16QAM

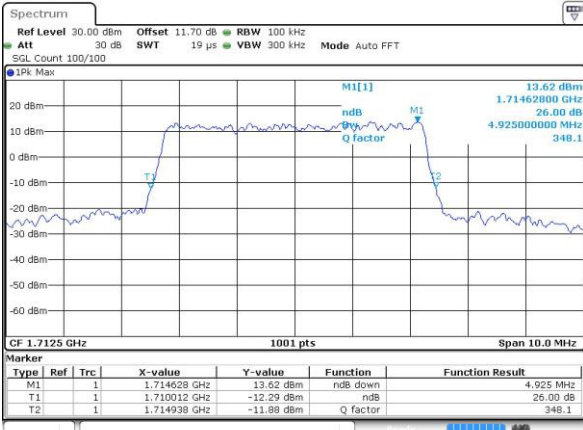


Date: 20 MAR 2017 10:55:48



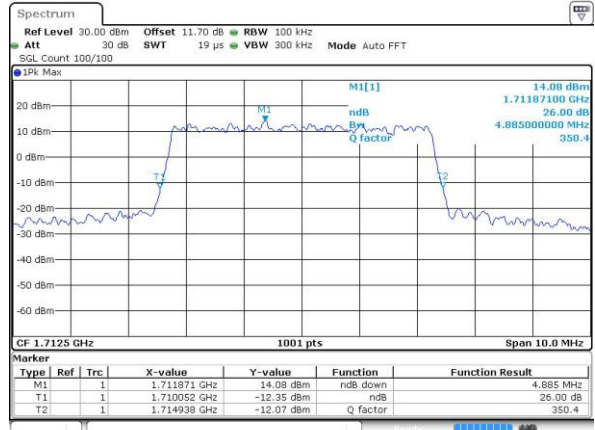
LTE Band 4

Lowest Channel / 5MHz / QPSK



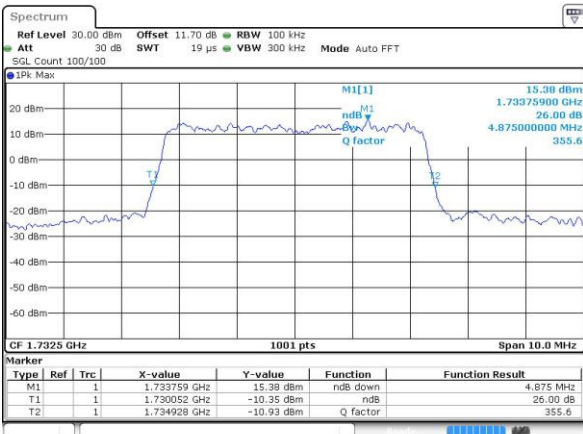
Date: 20 MAR 2017 11:02:45

Lowest Channel / 5MHz / 16QAM



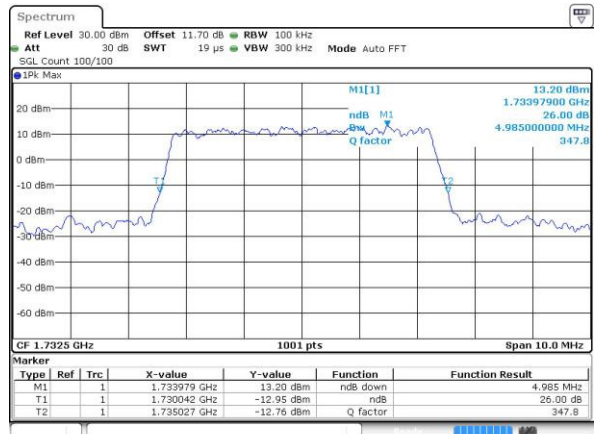
Date: 20 MAR 2017 11:02:55

Middle Channel / 5MHz / QPSK



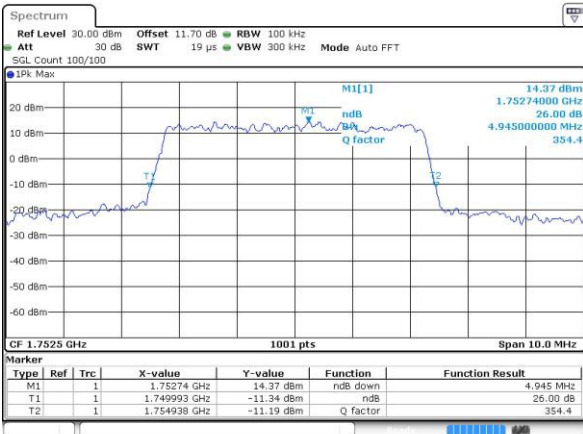
Date: 20 MAR 2017 11:09:52

Middle Channel / 5MHz / 16QAM



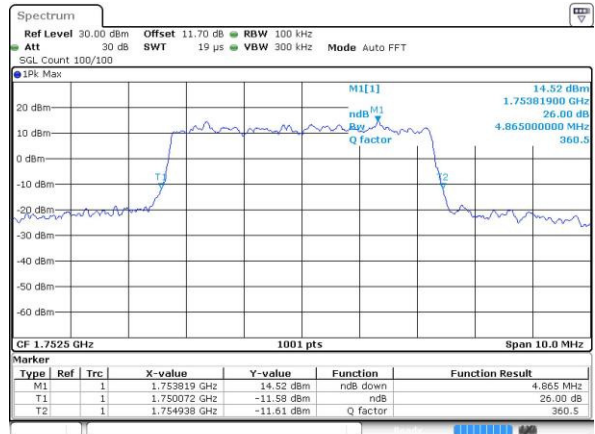
Date: 20 MAR 2017 11:10:02

Highest Channel / 5MHz / QPSK



Date: 20 MAR 2017 11:12:22

Highest Channel / 5MHz / 16QAM

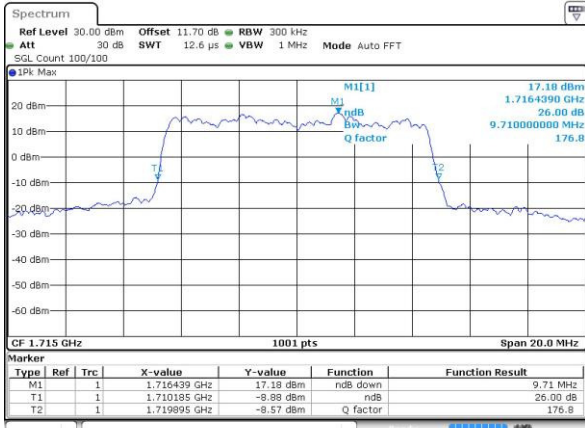


Date: 20 MAR 2017 11:12:33



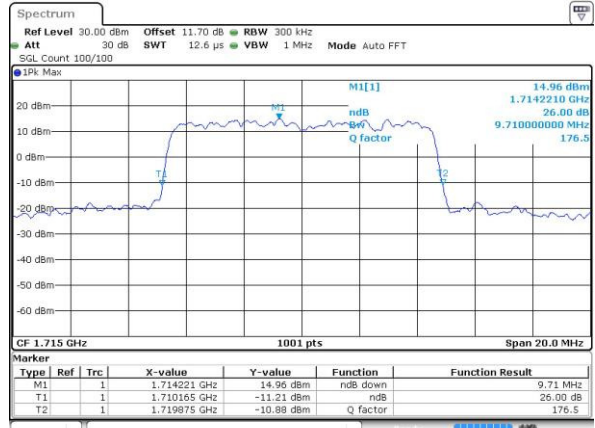
LTE Band 4

Lowest Channel / 10MHz / QPSK



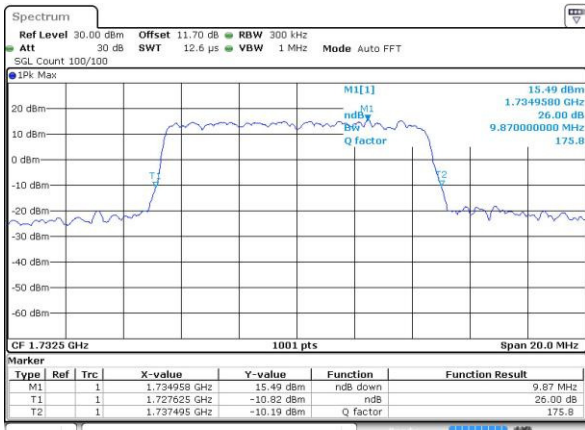
Date: 20 MAR 2017 11:19:29

Lowest Channel / 10MHz / 16QAM



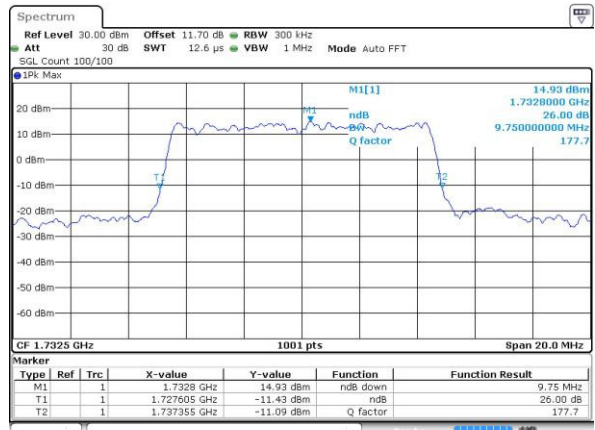
Date: 20 MAR 2017 11:19:40

Middle Channel / 10MHz / QPSK



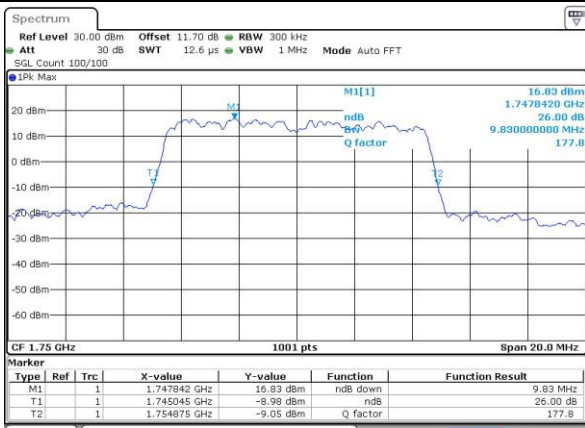
Date: 20 MAR 2017 11:26:36

Middle Channel / 10MHz / 16QAM



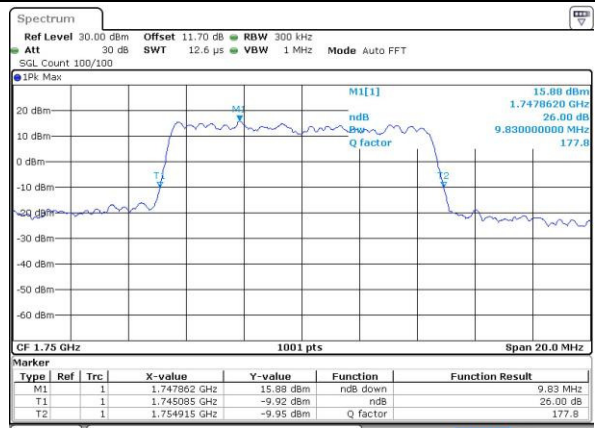
Date: 20 MAR 2017 11:26:47

Highest Channel / 10MHz / QPSK



Date: 20 MAR 2017 11:29:07

Highest Channel / 10MHz / 16QAM

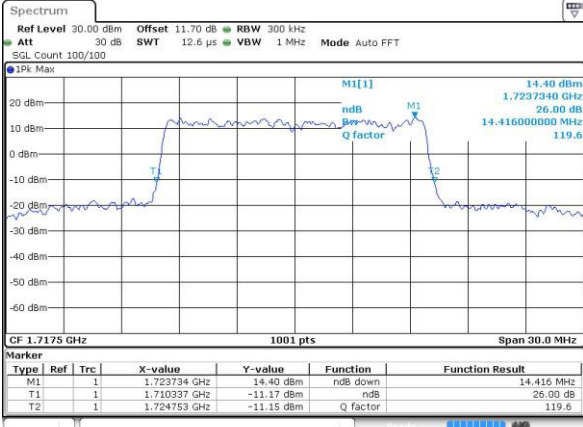


Date: 20 MAR 2017 11:29:17



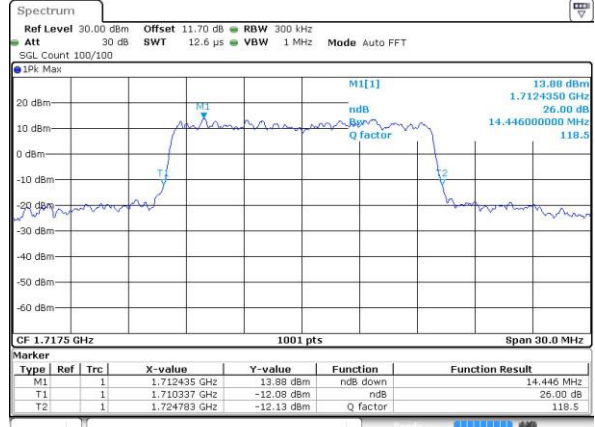
LTE Band 4

Lowest Channel / 15MHz / QPSK



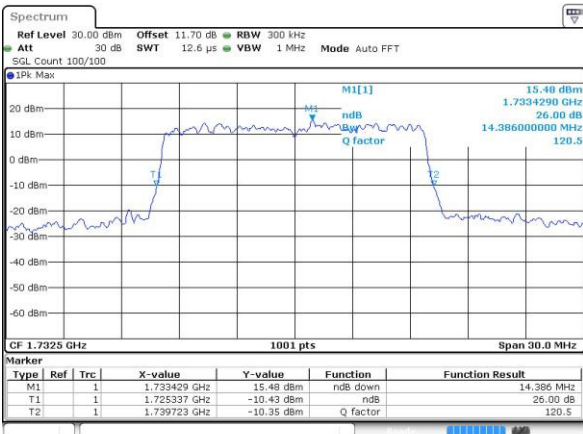
Date: 20 MAR 2017 11:36:14

Lowest Channel / 15MHz / 16QAM



Date: 20 MAR 2017 11:36:24

Middle Channel / 15MHz / QPSK



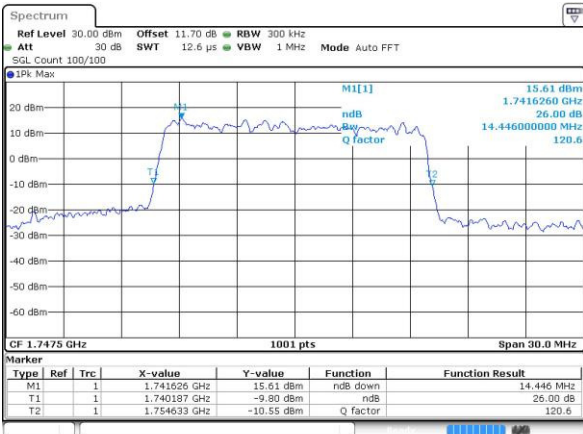
Date: 20 MAR 2017 11:43:21

Middle Channel / 15MHz / 16QAM



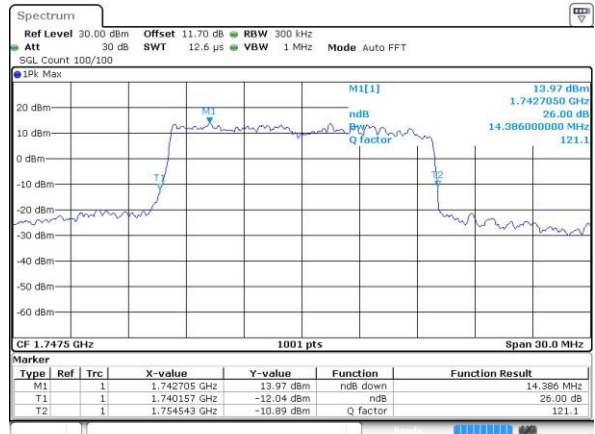
Date: 20 MAR 2017 11:43:31

Highest Channel / 15MHz / QPSK



Date: 20 MAR 2017 11:45:51

Highest Channel / 15MHz / 16QAM

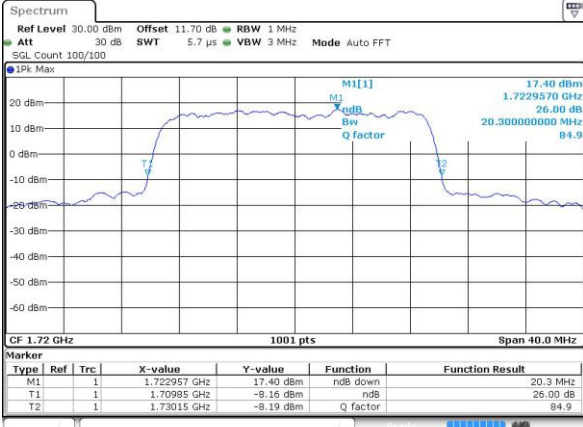


Date: 20 MAR 2017 11:46:01



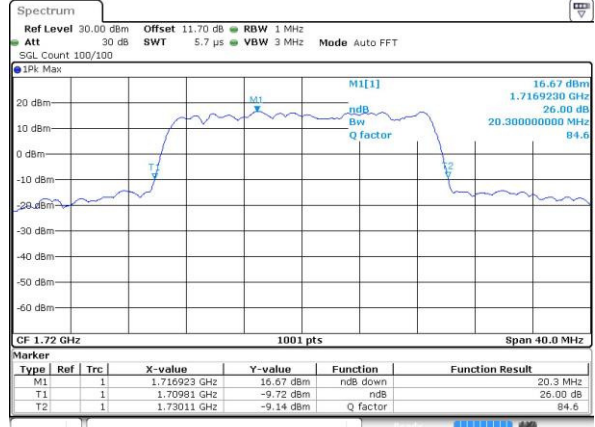
LTE Band 4

Lowest Channel / 20MHz / QPSK



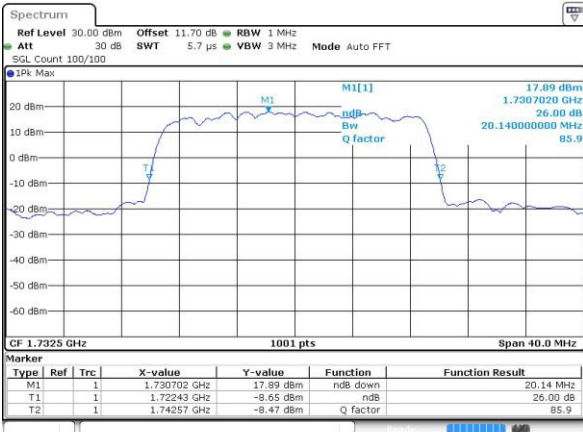
Date: 20 MAR 2017 11:52:58

Lowest Channel / 20MHz / 16QAM



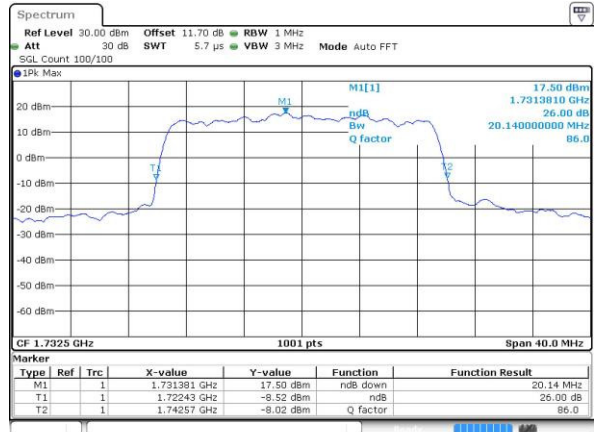
Date: 20 MAR 2017 11:53:08

Middle Channel / 20MHz / QPSK



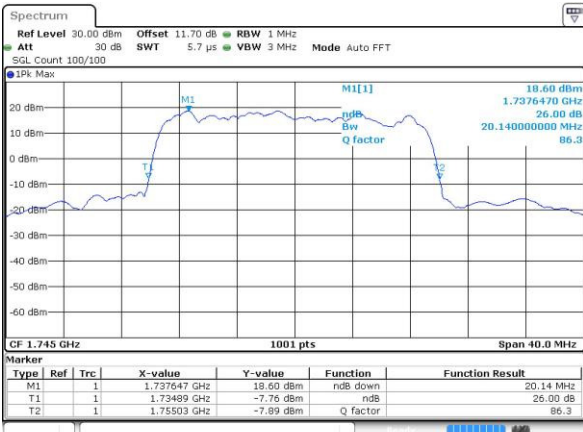
Date: 20 MAR 2017 12:00:05

Middle Channel / 20MHz / 16QAM



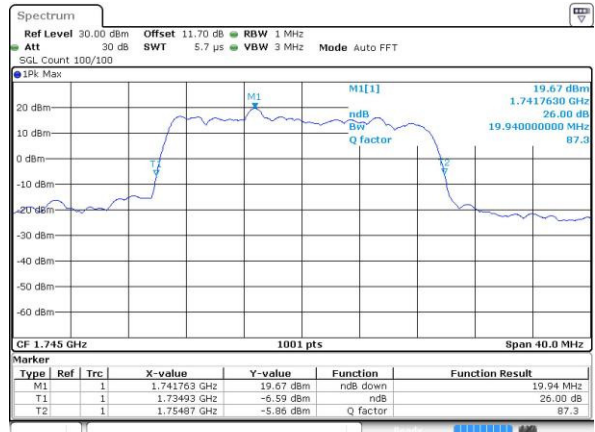
Date: 20 MAR 2017 12:00:16

Highest Channel / 20MHz / QPSK



Date: 20 MAR 2017 12:02:36

Highest Channel / 20MHz / 16QAM



Date: 20 MAR 2017 12:02:46



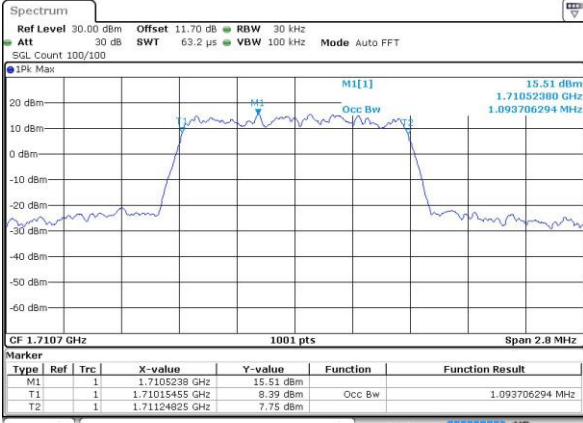
Occupied Bandwidth

| Mode | LTE Band 4 : 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 | 2.72 | 2.73 | 4.5 | 4.51 | 9.05 | 9.01 | 13.43 | 13.4 | 18.38 | 18.5 |
| Middle CH | 1.1 | 1.09 | 2.73 | 2.72 | 4.5 | 4.49 | 8.97 | 9.03 | 13.49 | 13.4 | 18.3 | 18.26 |
| Highest CH | 1.09 | 1.09 | 2.76 | 2.74 | 4.5 | 4.5 | 9.03 | 9.03 | 13.43 | 13.49 | 18.34 | 18.34 |



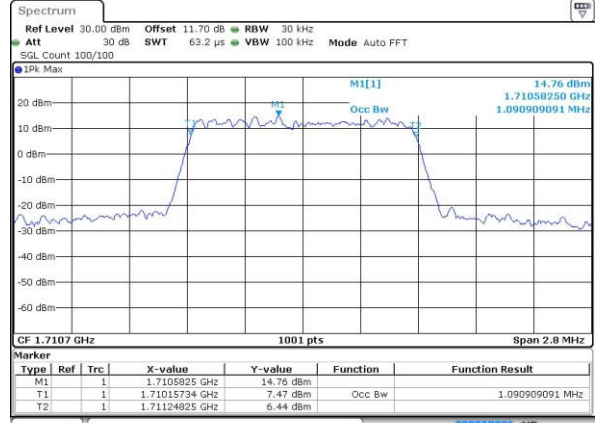
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



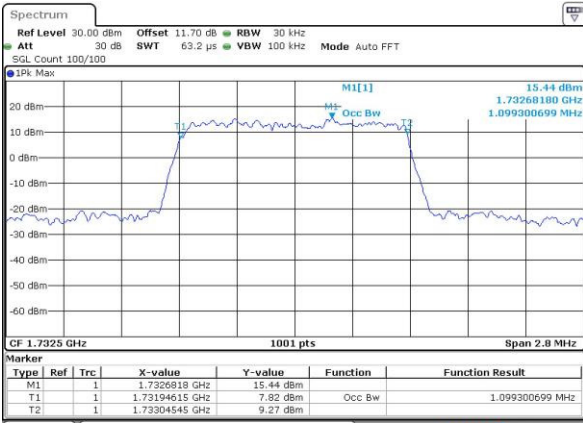
Date: 20 MAR 2017 13:37:14

Lowest Channel / 1.4MHz / 16QAM



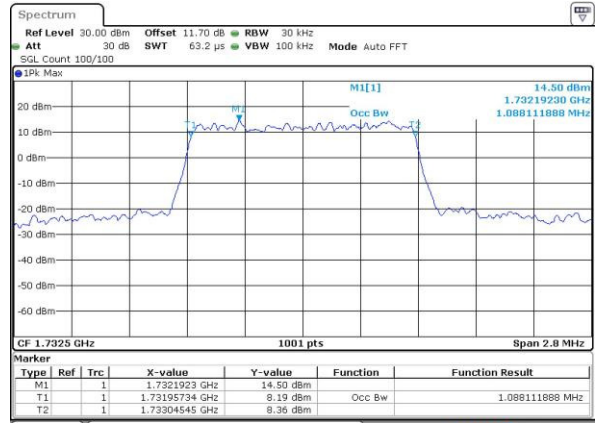
Date: 20 MAR 2017 13:37:25

Middle Channel / 1.4MHz / QPSK



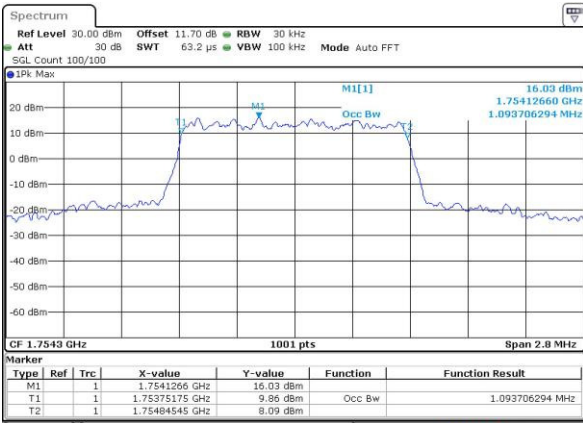
Date: 20 MAR 2017 13:44:22

Middle Channel / 1.4MHz / 16QAM



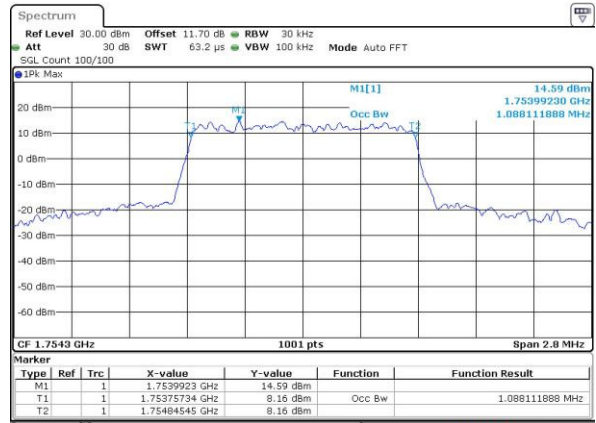
Date: 20 MAR 2017 13:44:33

Highest Channel / 1.4MHz / QPSK



Date: 20 MAR 2017 13:46:53

Highest Channel / 1.4MHz / 16QAM

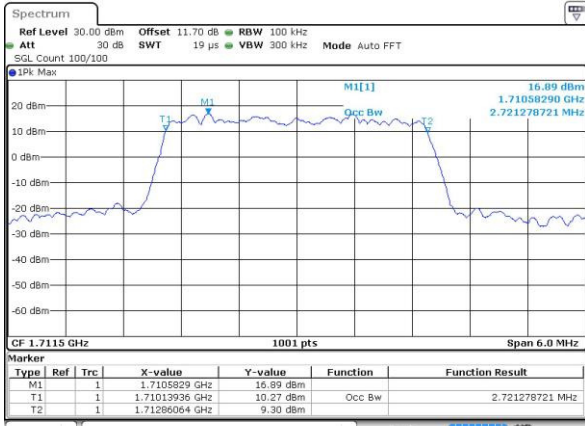


Date: 20 MAR 2017 13:47:04



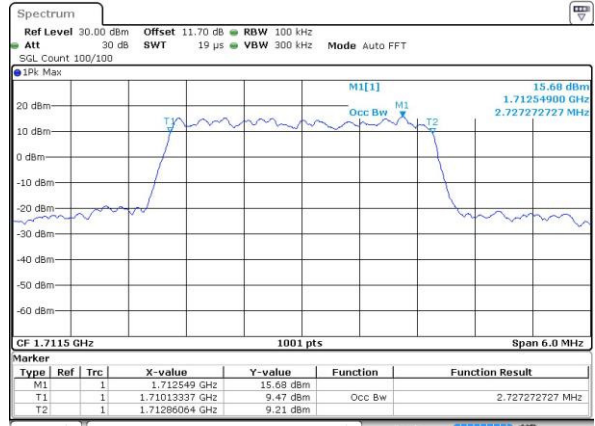
LTE Band 4

Lowest Channel / 3MHz / QPSK



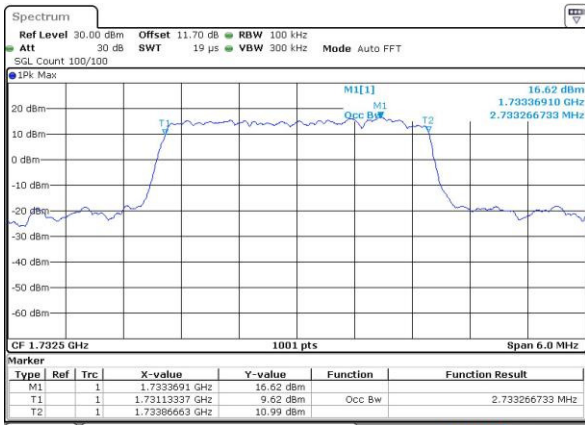
Date: 20 MAR 2017 10:45:38

Lowest Channel / 3MHz / 16QAM



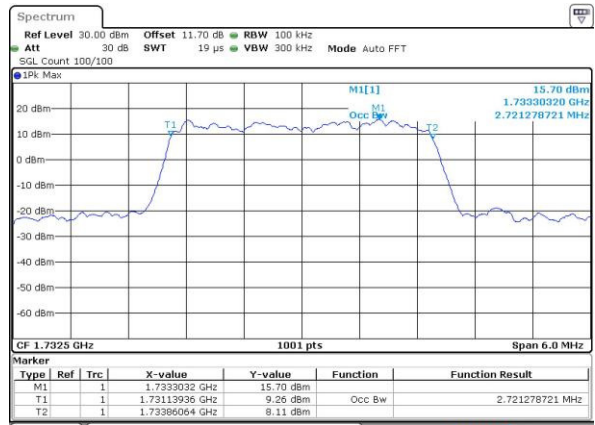
Date: 20 MAR 2017 10:45:49

Middle Channel / 3MHz / QPSK



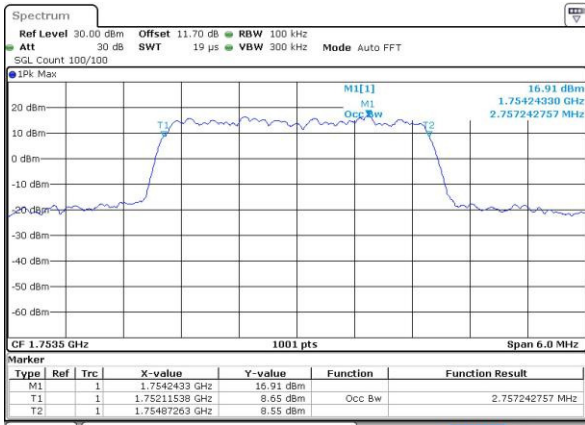
Date: 20 MAR 2017 10:52:47

Middle Channel / 3MHz / 16QAM



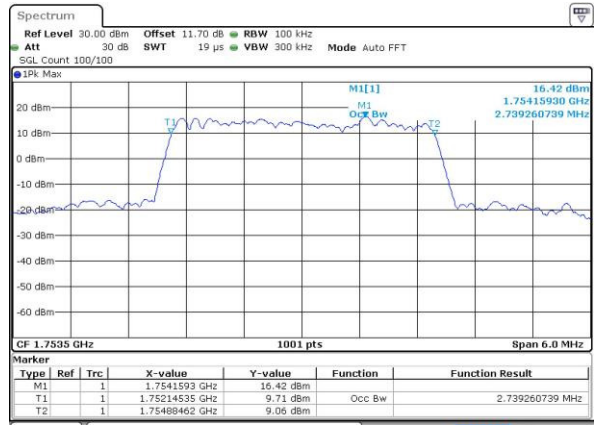
Date: 20 MAR 2017 10:52:57

Highest Channel / 3MHz / QPSK



Date: 20 MAR 2017 10:55:17

Highest Channel / 3MHz / 16QAM

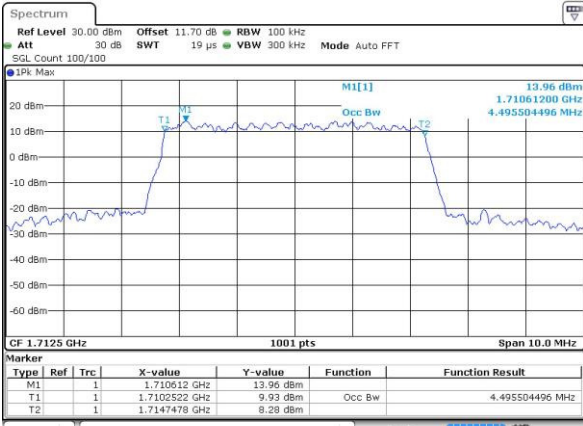


Date: 20 MAR 2017 10:55:27



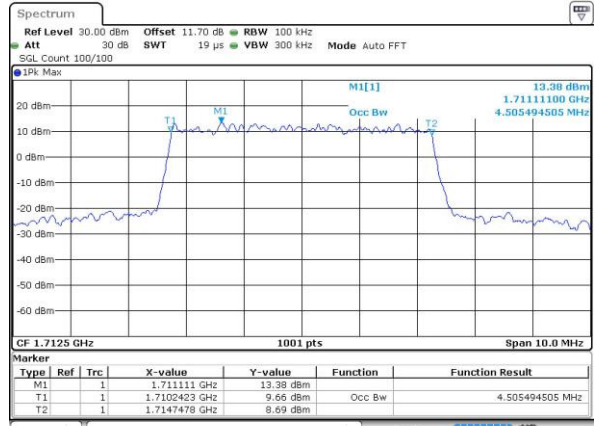
LTE Band 4

Lowest Channel / 5MHz / QPSK



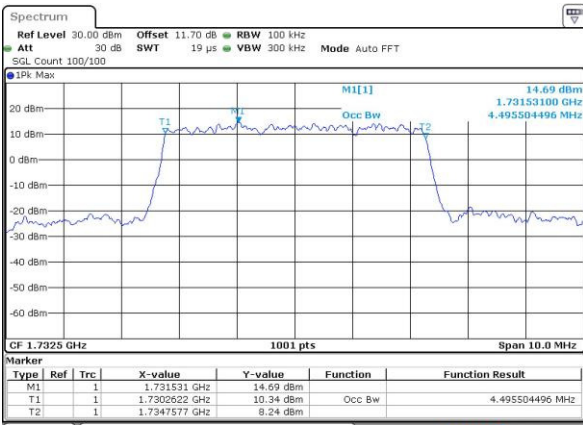
Date: 20 MAR 2017 11:02:24

Lowest Channel / 5MHz / 16QAM



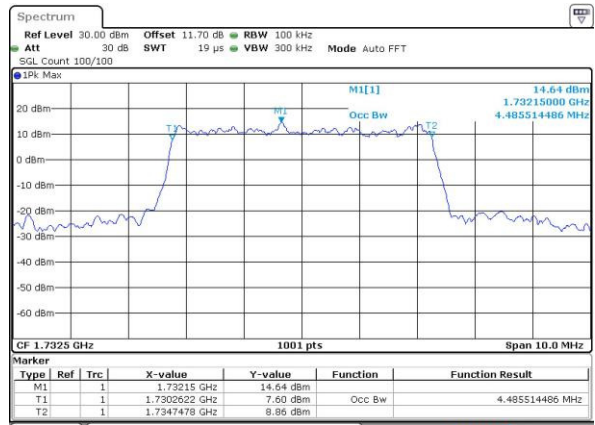
Date: 20 MAR 2017 11:02:34

Middle Channel / 5MHz / QPSK



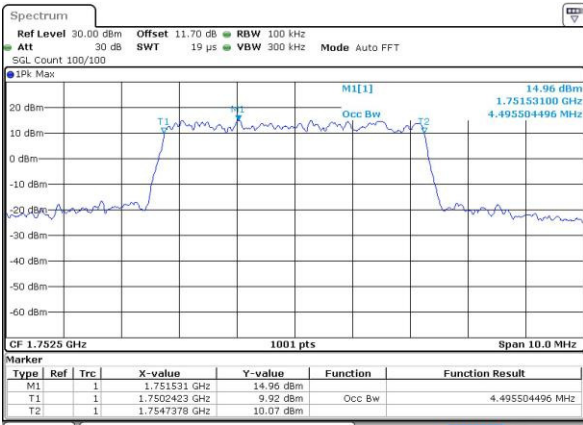
Date: 20 MAR 2017 11:09:31

Middle Channel / 5MHz / 16QAM



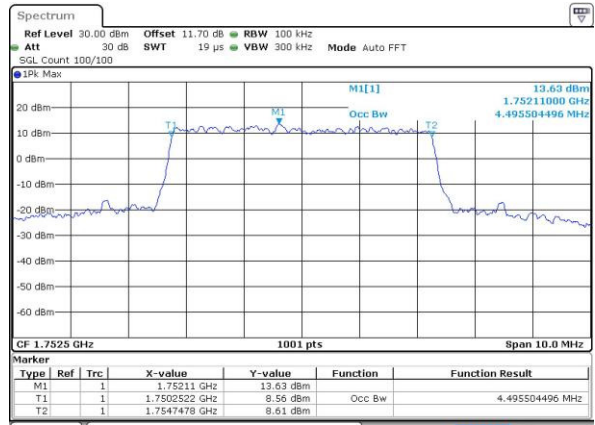
Date: 20 MAR 2017 11:09:41

Highest Channel / 5MHz / QPSK



Date: 20 MAR 2017 11:12:02

Highest Channel / 5MHz / 16QAM



Date: 20 MAR 2017 11:12:12