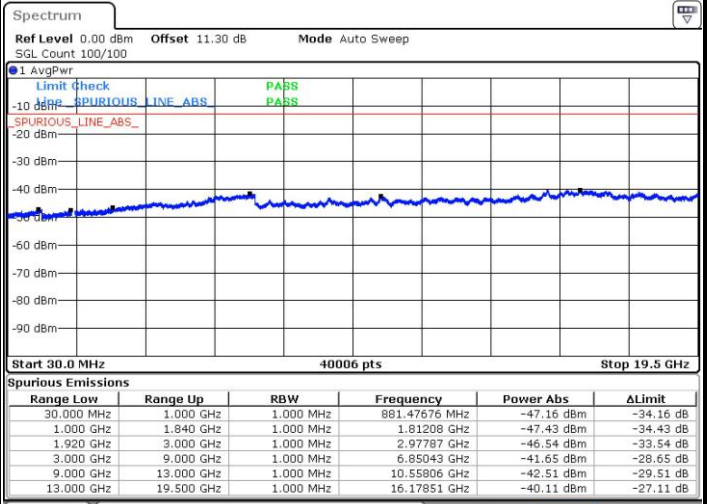
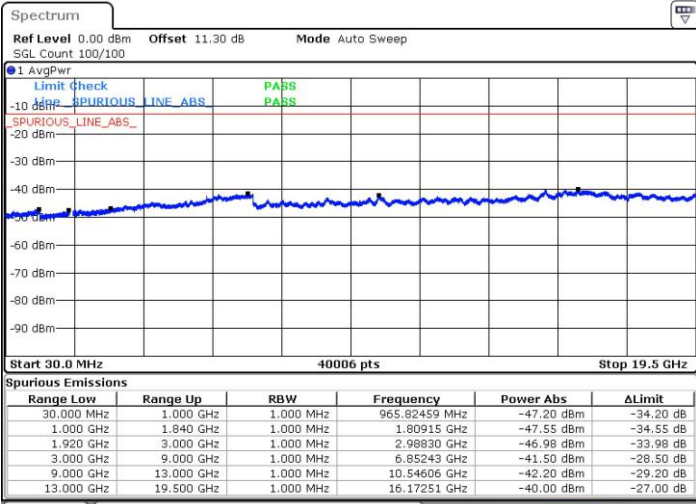




LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



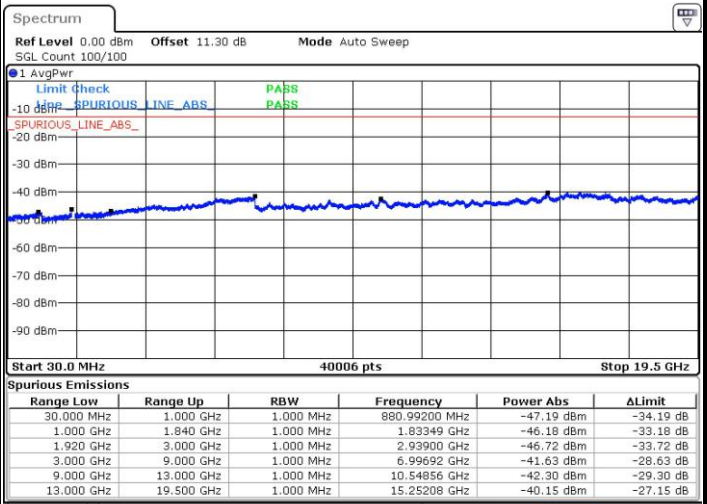
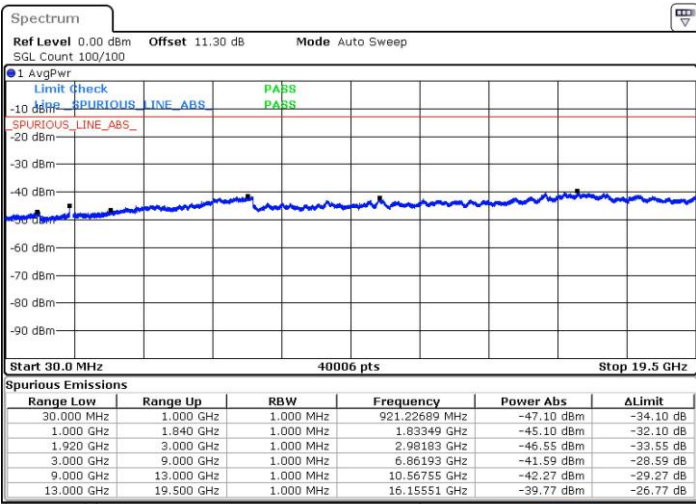
Date: 30.MAR.2018 10:19:55

Date: 30.MAR.2018 10:21:25

LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 30.MAR.2018 10:30:16

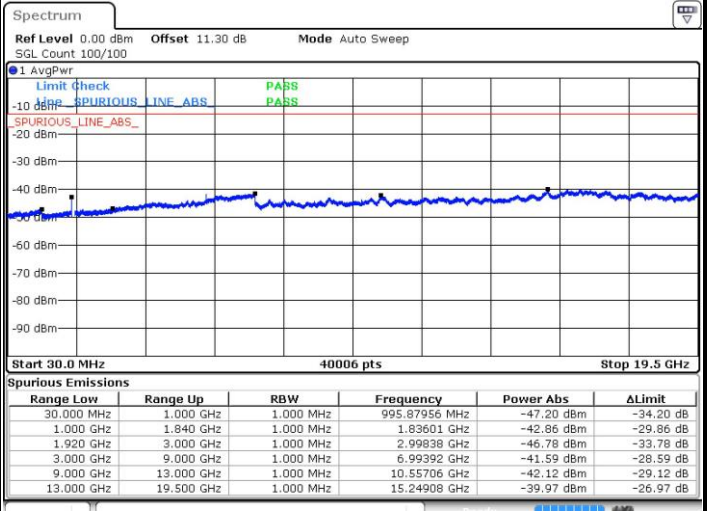
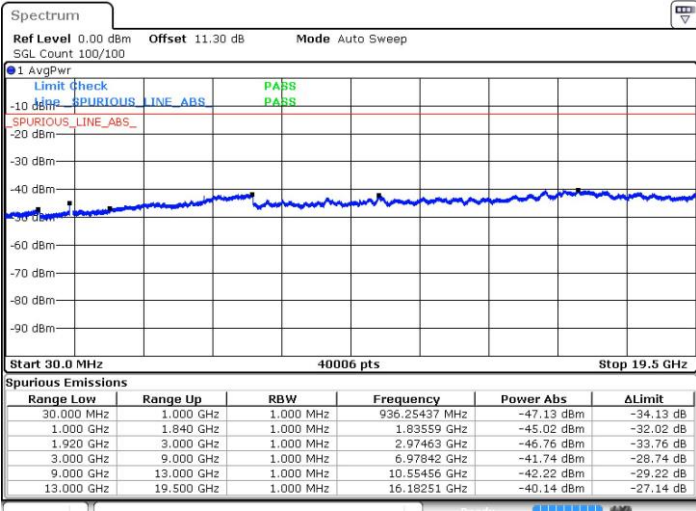
Date: 30.MAR.2018 10:31:47



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

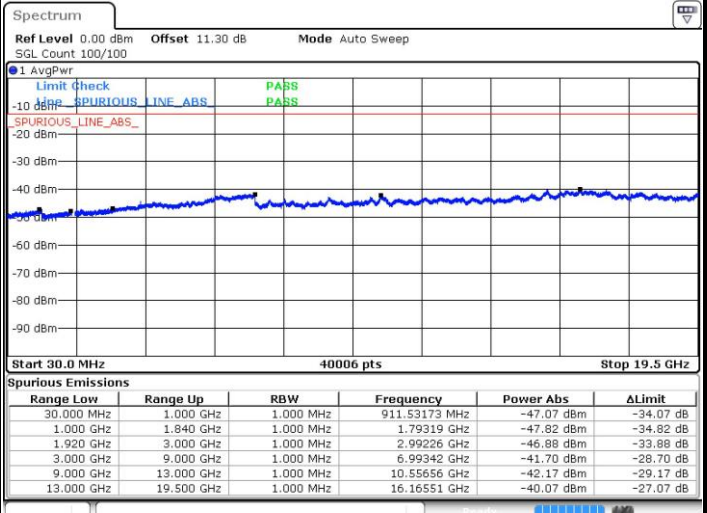
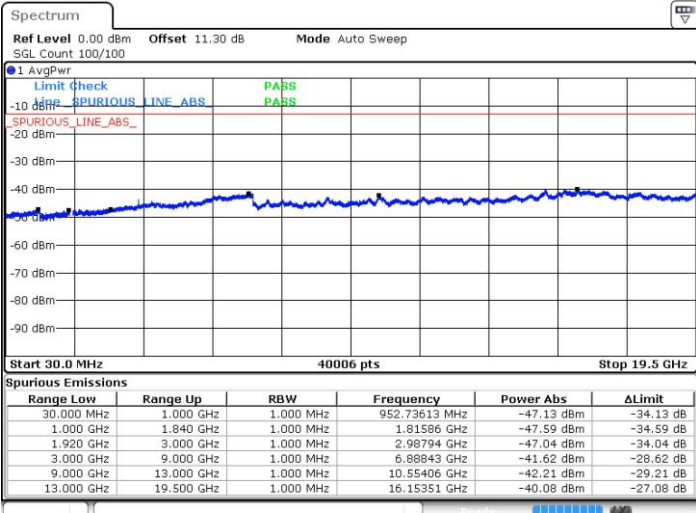


Date: 30.MAR.2018 10:53:27

Date: 30.MAR.2018 10:54:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.MAR.2018 11:02:56

Date: 30.MAR.2018 11:04:23



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 | 0.0014 | PASS |
| 40 | Normal Voltage | 0.0071 | |
| 30 | Normal Voltage | 0.0024 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0038 | |
| 0 | Normal Voltage | 0.0009 | |
| -10 | Normal Voltage | 0.0010 | |
| -20 | Normal Voltage | 0.0020 | |
| -30 | Normal Voltage | 0.0016 | |
| 20 | Maximum Voltage | 0.0003 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0025 | |

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

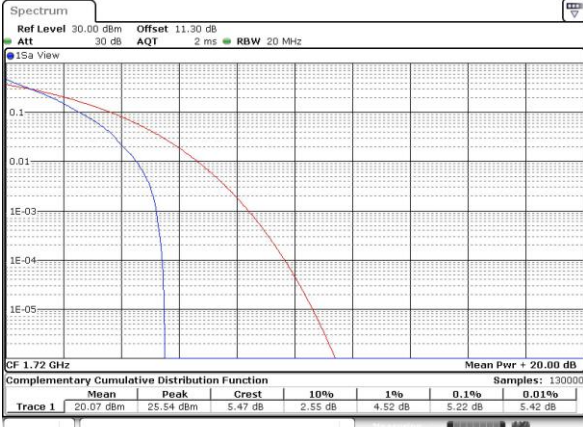
Peak-to-Average Ratio

| Mode | LTE Band 4 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 5.22 | 5.28 | 5.83 | 6.17 | PASS |
| Middle CH | 5.33 | 5.25 | 6.35 | 6.2 | |
| Highest CH | 5.22 | 5.28 | 5.86 | 6.12 | |



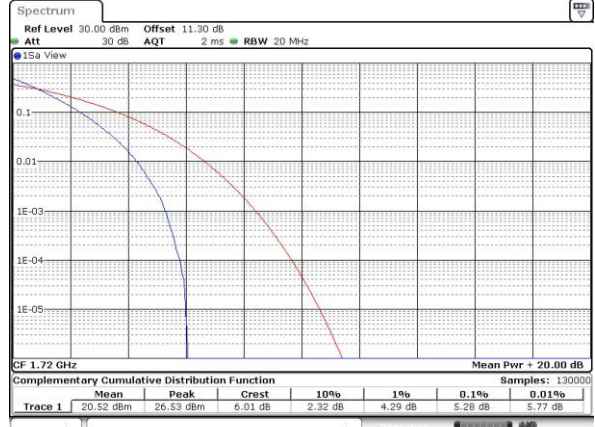
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



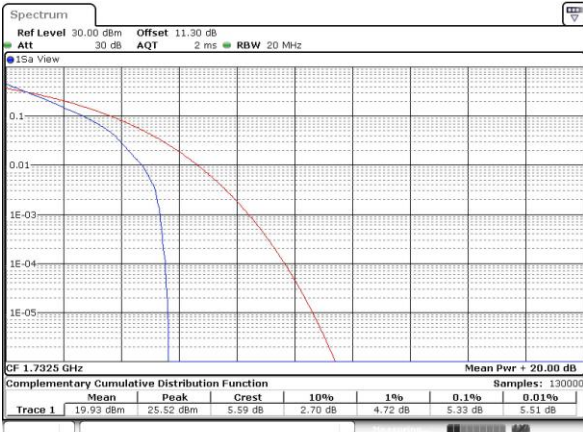
Date: 30 MAR 2018 20:44:59

Lowest Channel / Full RB



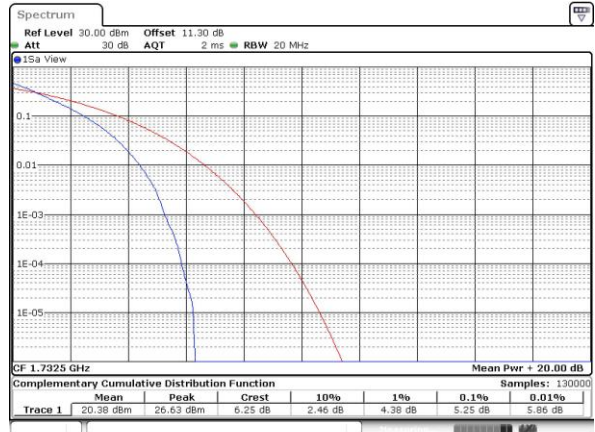
Date: 30 MAR 2018 20:45:08

Middle Channel / 1RB



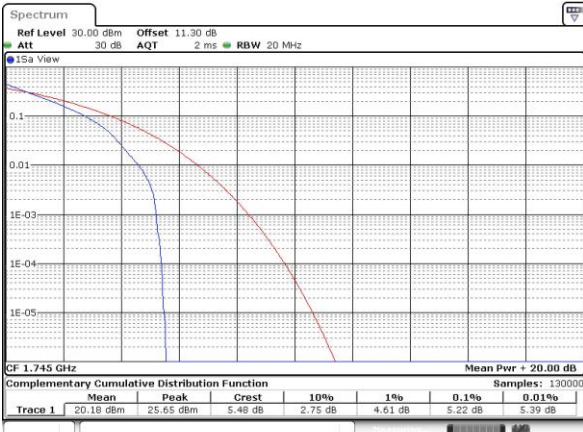
Date: 30 MAR 2018 20:45:19

Middle Channel / Full RB



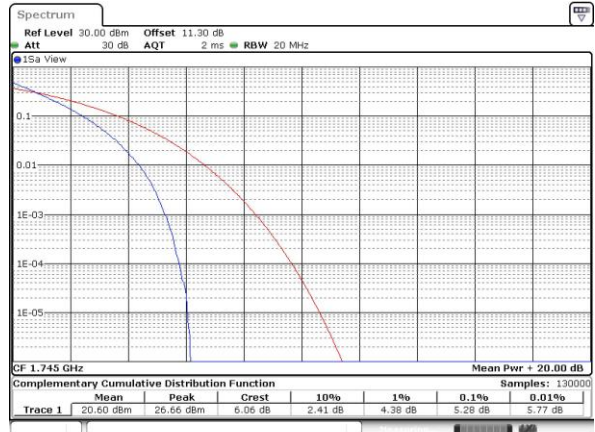
Date: 30 MAR 2018 20:45:29

Highest Channel / 1RB



Date: 30 MAR 2018 20:45:41

Highest Channel / Full RB

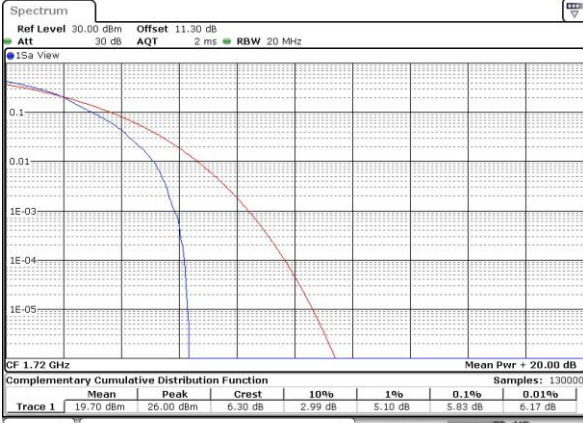


Date: 30 MAR 2018 20:45:50



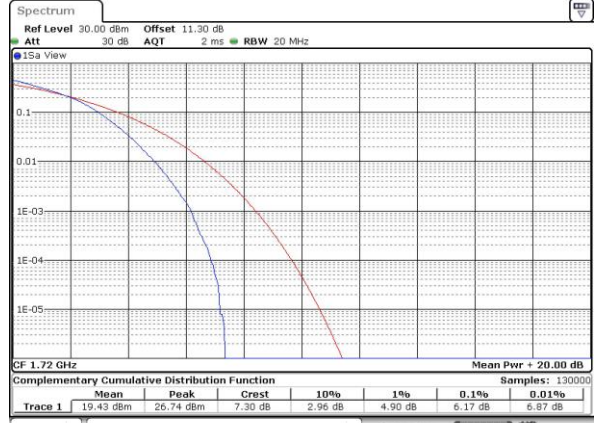
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



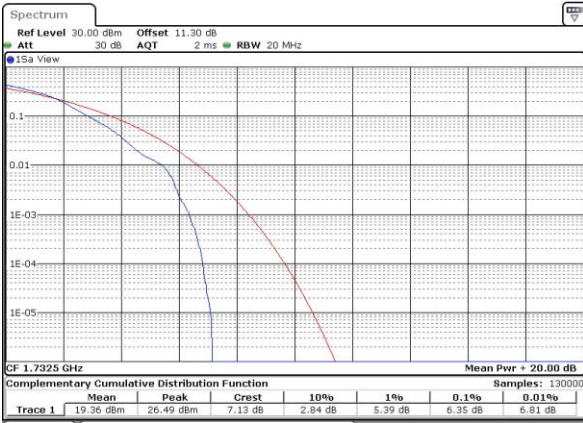
Date: 30 MAR 2018 20:43:59

Lowest Channel / Full RB



Date: 30 MAR 2018 20:44:10

Middle Channel / 1RB



Date: 30 MAR 2018 20:44:20

Middle Channel / Full RB



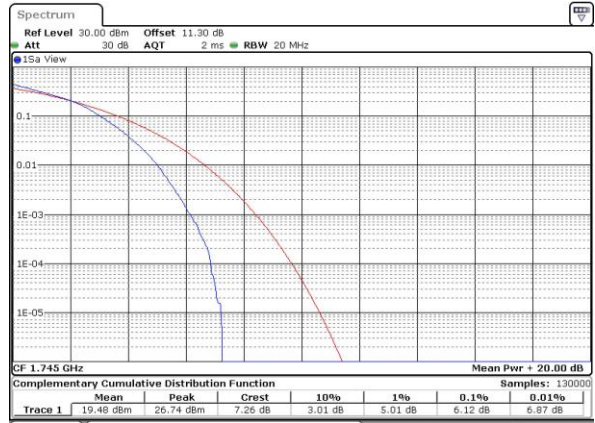
Date: 30 MAR 2018 20:44:30

Highest Channel / 1RB



Date: 30 MAR 2018 20:44:39

Highest Channel / Full RB



Date: 30 MAR 2018 20:44:49



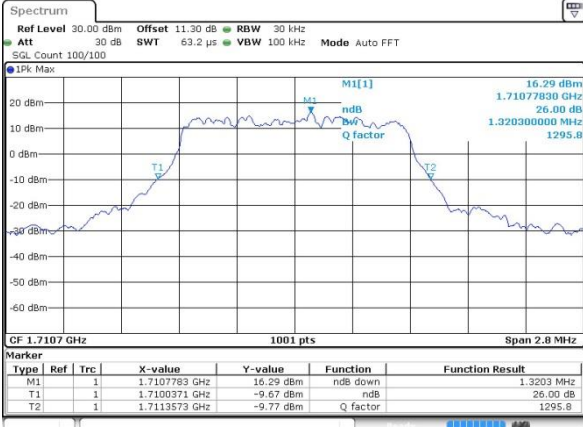
26dB Bandwidth

| 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 | 1.32 | 1.37 | 3.05 | 3.01 | 5.00 | 4.89 | 10.03 | 9.91 | 15.41 | 14.93 | 20.50 | 20.14 |
| Middle CH | 1.32 | 1.31 | 3.03 | 3.03 | 4.94 | 4.96 | 10.13 | 9.85 | 15.05 | 14.84 | 20.94 | 20.18 |
| Highest CH | 1.32 | 1.33 | 3.12 | 3.05 | 5.01 | 4.88 | 9.87 | 9.87 | 15.14 | 14.45 | 20.18 | 20.14 |



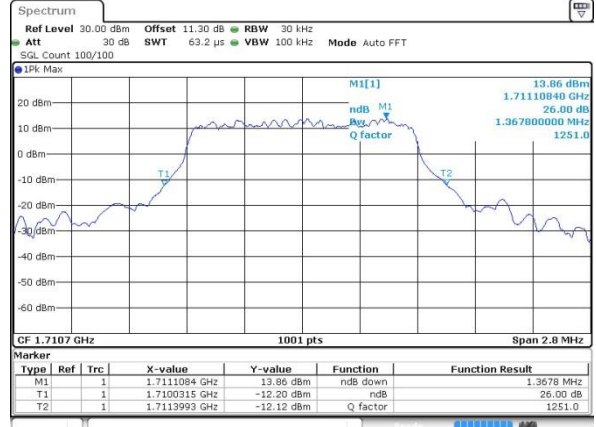
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



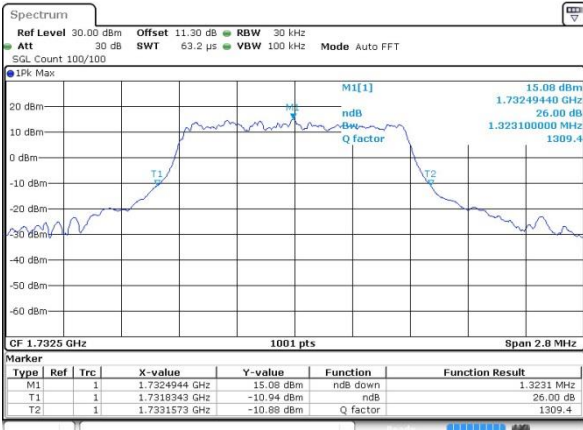
Date: 30 MAR 2016 20:28:10

Lowest Channel / 1.4MHz / 16QAM



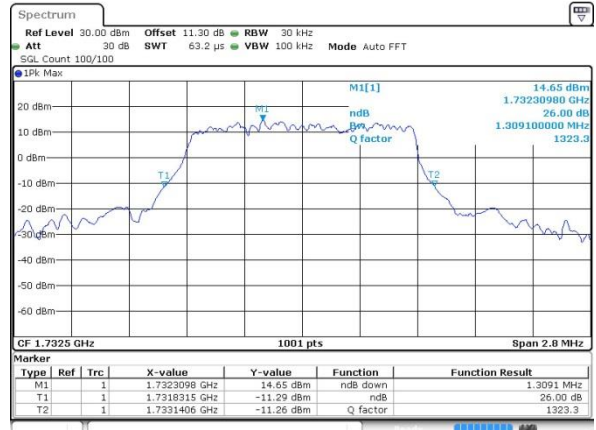
Date: 30 MAR 2016 20:28:21

Middle Channel / 1.4MHz / QPSK



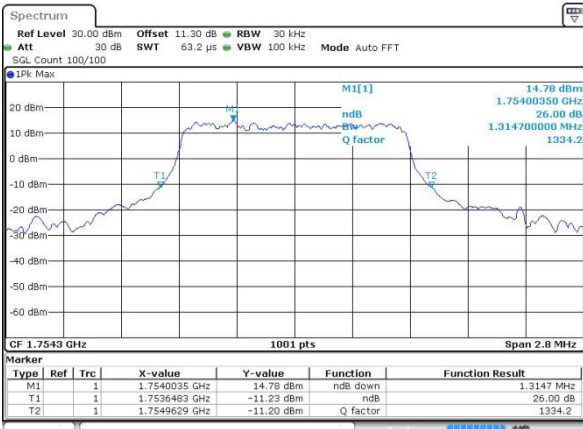
Date: 30 MAR 2016 20:33:12

Middle Channel / 1.4MHz / 16QAM



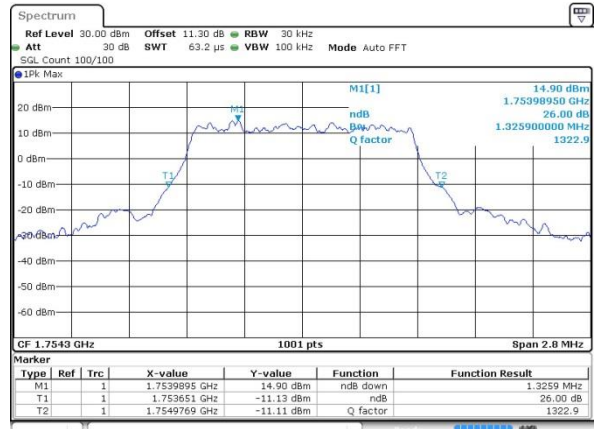
Date: 30 MAR 2016 20:33:22

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2016 20:35:42

Highest Channel / 1.4MHz / 16QAM

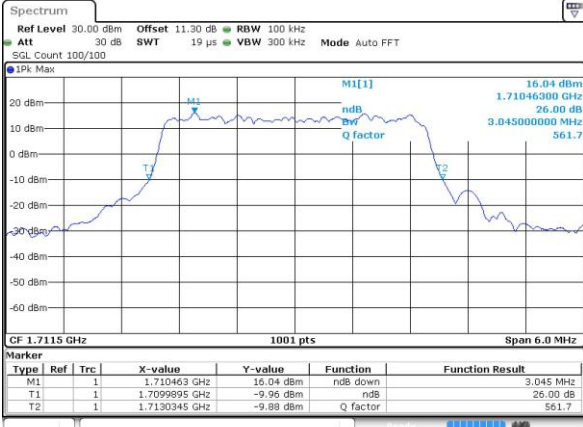


Date: 30 MAR 2016 20:35:52



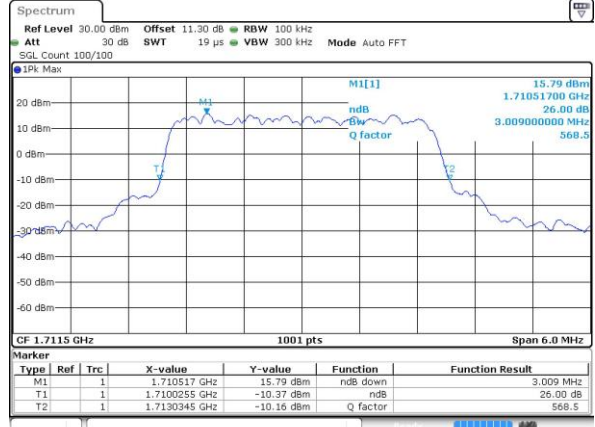
LTE Band 4

Lowest Channel / 3MHz / QPSK



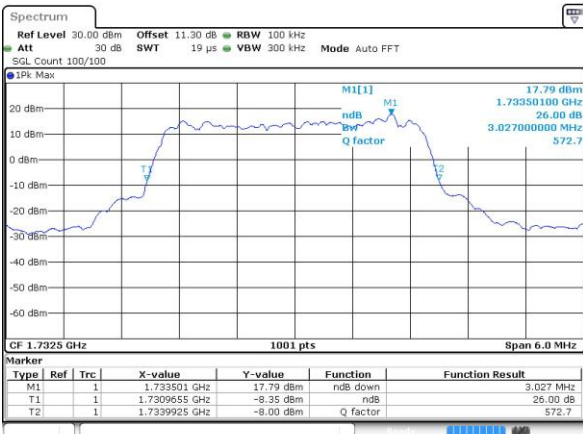
Date: 30 MAR 2018 18:57:59

Lowest Channel / 3MHz / 16QAM



Date: 30 MAR 2018 18:58:10

Middle Channel / 3MHz / QPSK



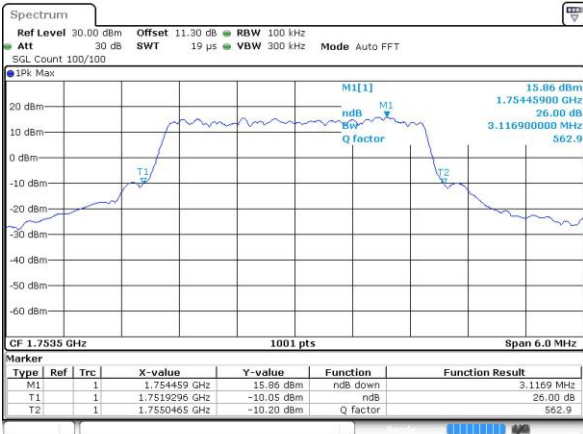
Date: 30 MAR 2018 19:05:03

Middle Channel / 3MHz / 16QAM



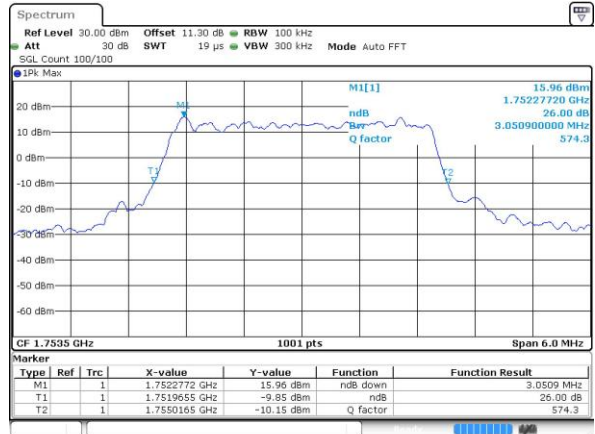
Date: 30 MAR 2018 19:05:13

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2018 19:07:34

Highest Channel / 3MHz / 16QAM

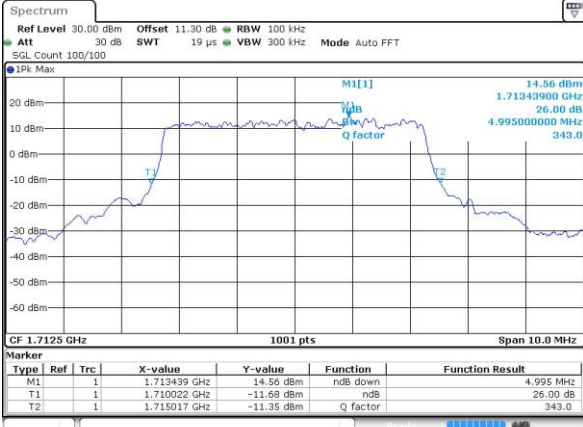


Date: 30 MAR 2018 19:07:44



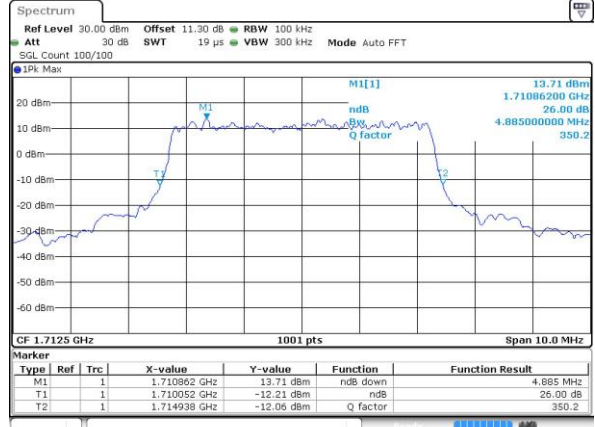
LTE Band 4

Lowest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:14:35

Lowest Channel / 5MHz / 16QAM



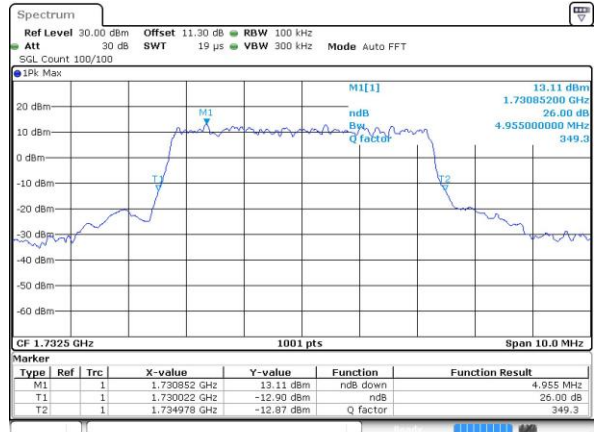
Date: 30 MAR 2018 19:14:46

Middle Channel / 5MHz / QPSK



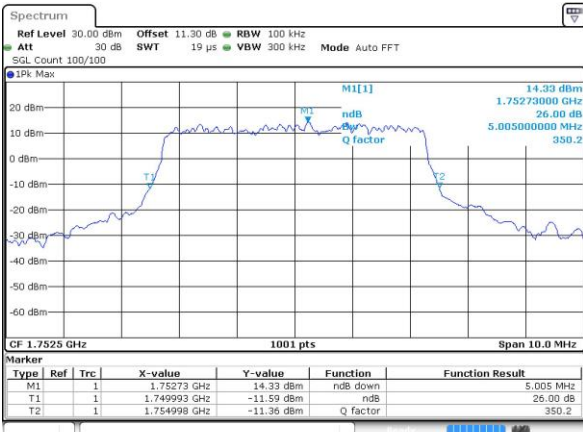
Date: 30 MAR 2018 19:21:39

Middle Channel / 5MHz / 16QAM



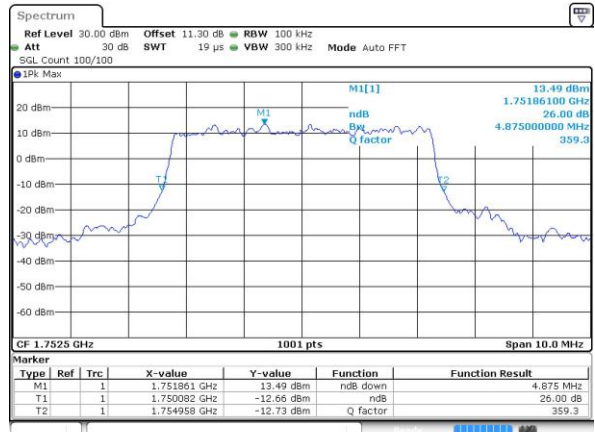
Date: 30 MAR 2018 19:21:49

Highest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:24:09

Highest Channel / 5MHz / 16QAM

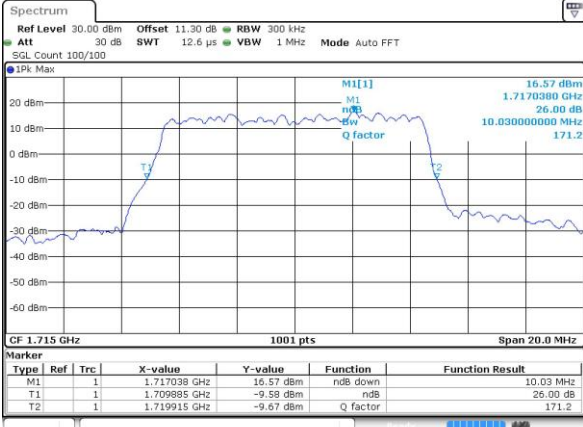


Date: 30 MAR 2018 19:24:19



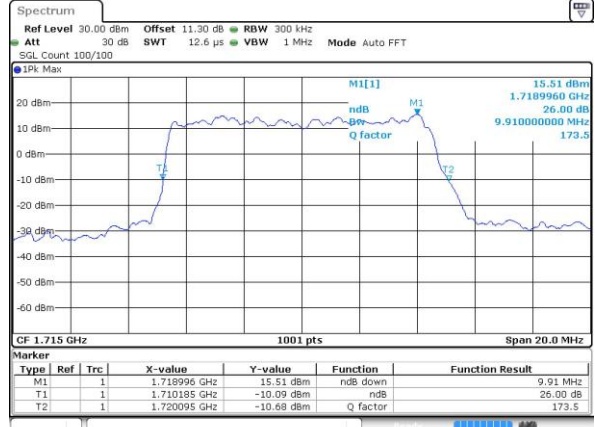
LTE Band 4

Lowest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:31:11

Lowest Channel / 10MHz / 16QAM



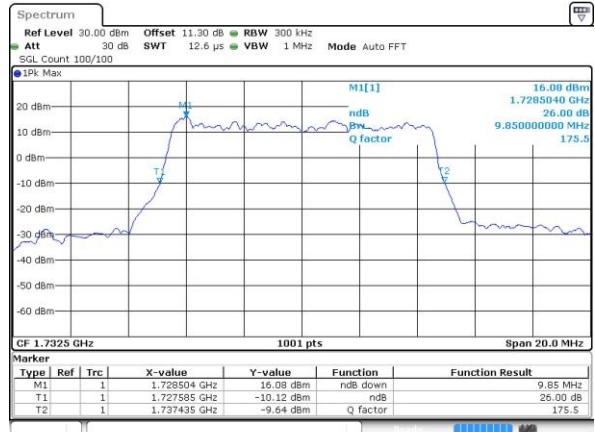
Date: 30 MAR 2018 19:31:21

Middle Channel / 10MHz / QPSK



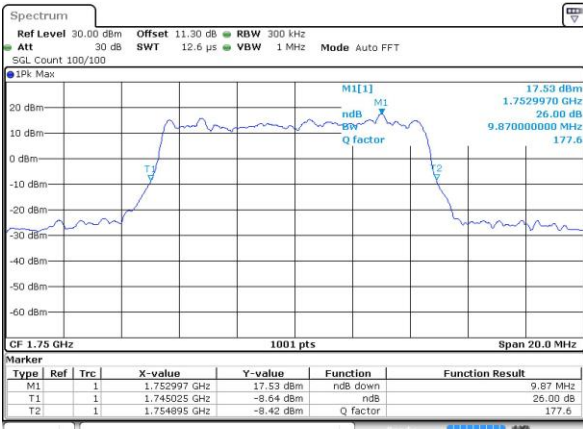
Date: 30 MAR 2018 19:38:12

Middle Channel / 10MHz / 16QAM



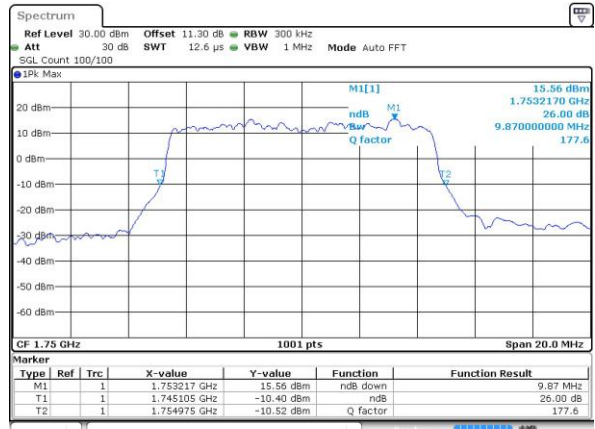
Date: 30 MAR 2018 19:38:22

Highest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:40:42

Highest Channel / 10MHz / 16QAM

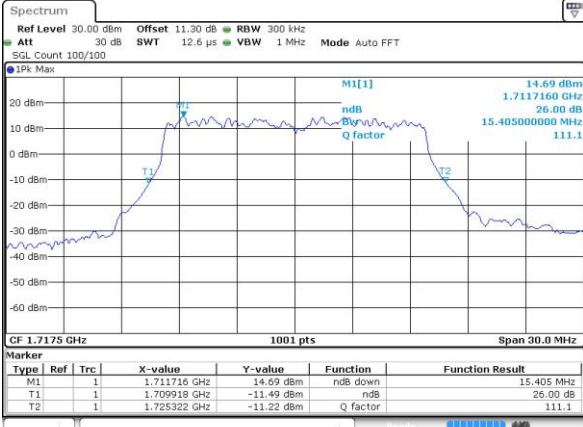


Date: 30 MAR 2018 19:40:52



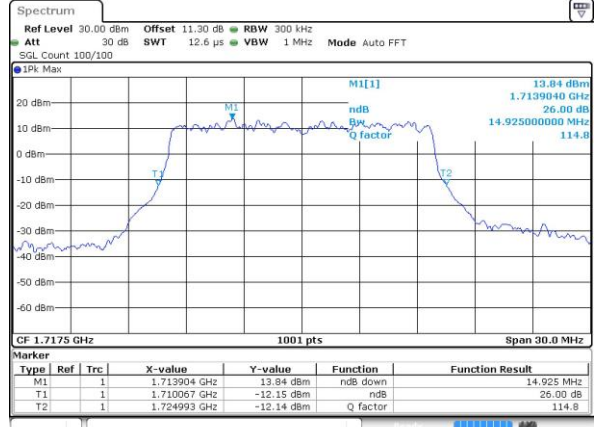
LTE Band 4

Lowest Channel / 15MHz / QPSK



Date: 30 MAR 2018 19:47:43

Lowest Channel / 15MHz / 16QAM



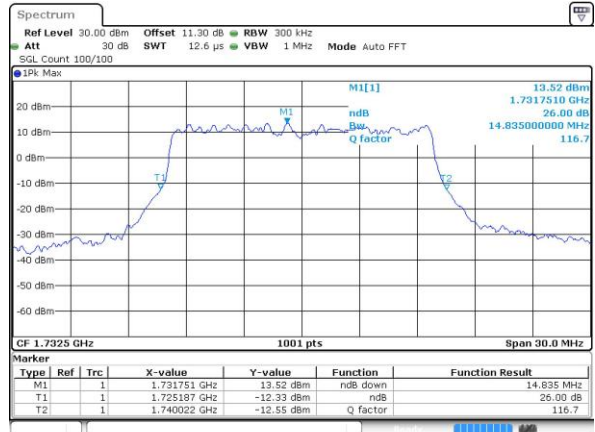
Date: 30 MAR 2018 19:47:54

Middle Channel / 15MHz / QPSK



Date: 30 MAR 2018 19:54:44

Middle Channel / 15MHz / 16QAM



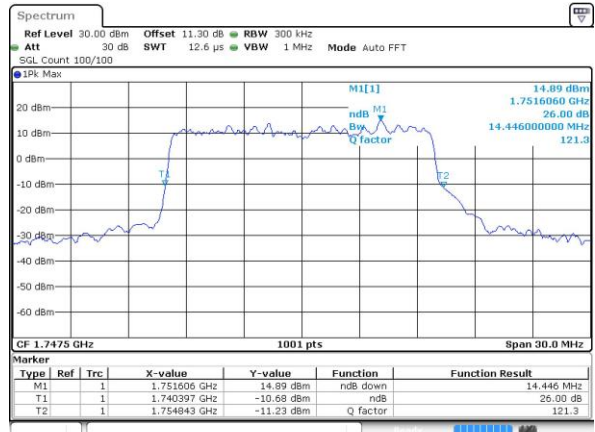
Date: 30 MAR 2018 19:54:55

Highest Channel / 15MHz / QPSK



Date: 30 MAR 2018 19:57:14

Highest Channel / 15MHz / 16QAM

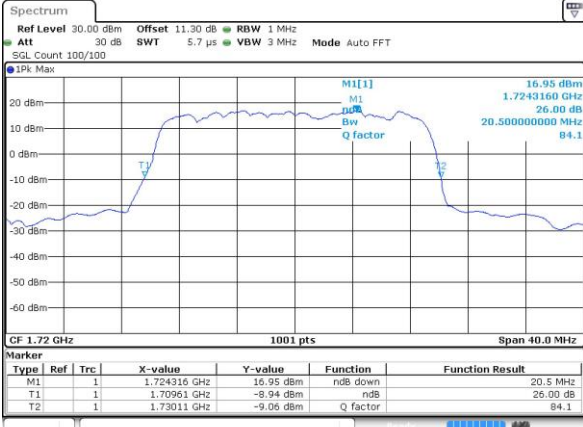


Date: 30 MAR 2018 19:57:25



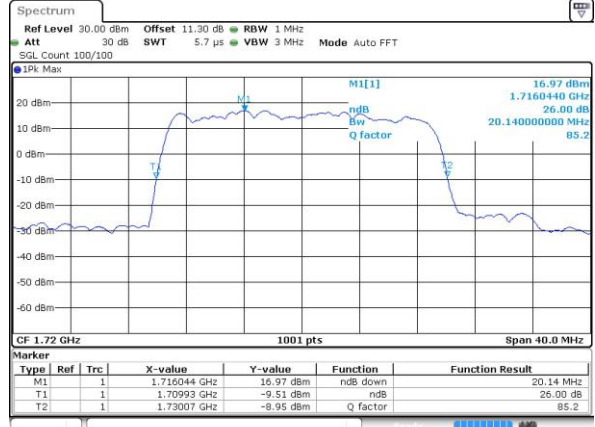
LTE Band 4

Lowest Channel / 20MHz / QPSK



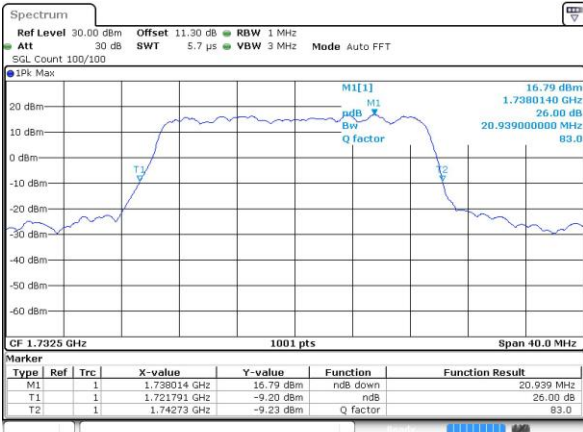
Date: 30 MAR 2018 20:08:11

Lowest Channel / 20MHz / 16QAM



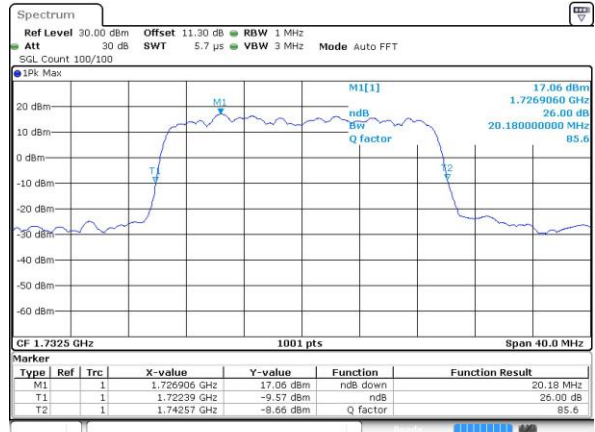
Date: 30 MAR 2018 20:08:21

Middle Channel / 20MHz / QPSK



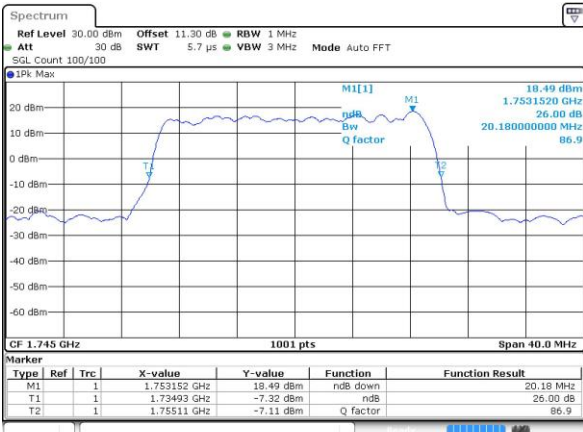
Date: 30 MAR 2018 20:15:12

Middle Channel / 20MHz / 16QAM



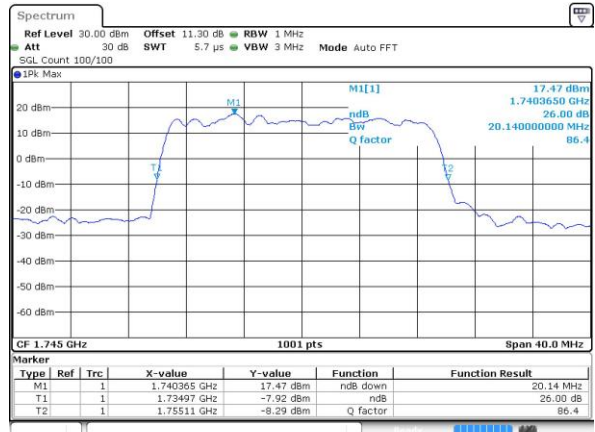
Date: 30 MAR 2018 20:15:22

Highest Channel / 20MHz / QPSK



Date: 30 MAR 2018 20:17:42

Highest Channel / 20MHz / 16QAM



Date: 30 MAR 2018 20:17:52



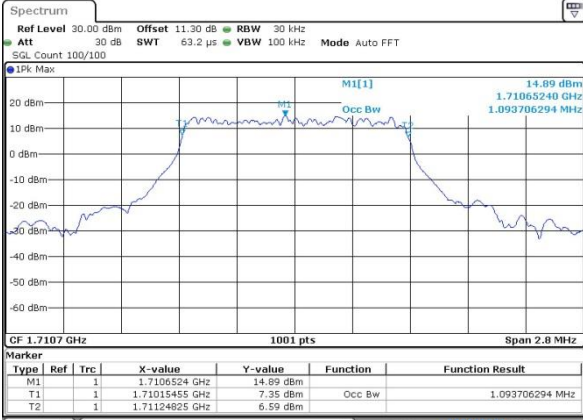
Occupied Bandwidth

| 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 | 2.7 | 4.49 | 4.49 | 9.09 | 8.99 | 13.52 | 13.49 | 18.18 | 18.26 |
| Middle CH | 1.11 | 1.09 | 2.72 | 2.71 | 4.5 | 4.51 | 9.11 | 9.05 | 13.46 | 13.55 | 18.46 | 18.54 |
| Highest CH | 1.1 | 1.09 | 2.72 | 2.72 | 4.49 | 4.46 | 9.09 | 9.05 | 13.49 | 13.43 | 18.38 | 18.46 |



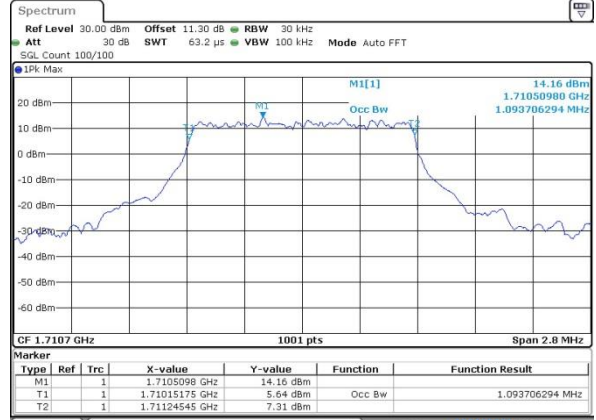
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



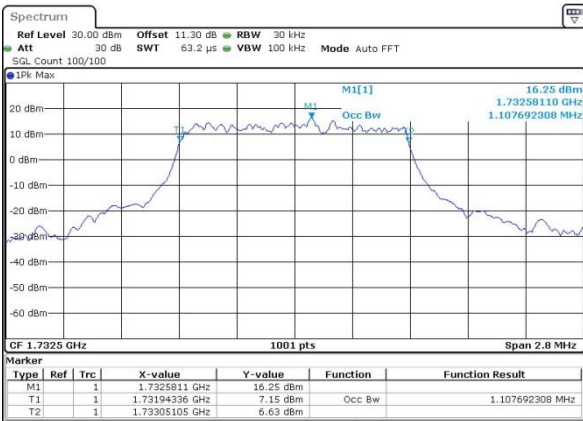
Date: 30 MAR 2018 20:25:50

Lowest Channel / 1.4MHz / 16QAM



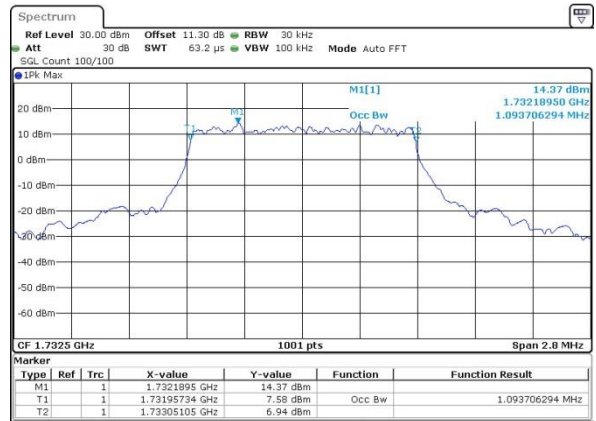
Date: 30 MAR 2018 20:26:00

Middle Channel / 1.4MHz / QPSK



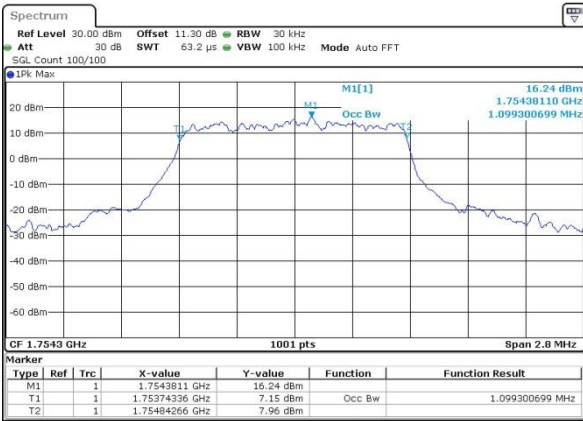
Date: 30 MAR 2018 20:32:51

Middle Channel / 1.4MHz / 16QAM



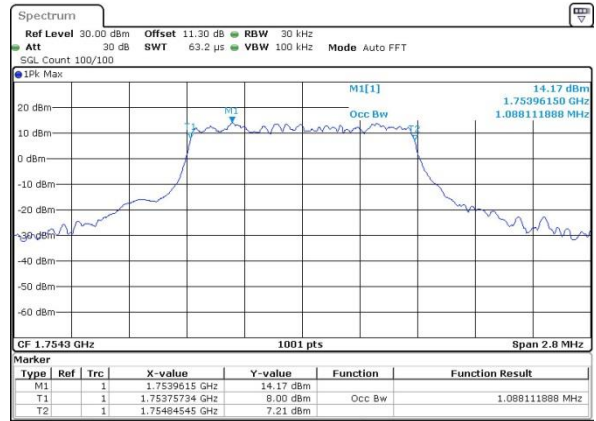
Date: 30 MAR 2018 20:33:01

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2018 20:35:21

Highest Channel / 1.4MHz / 16QAM

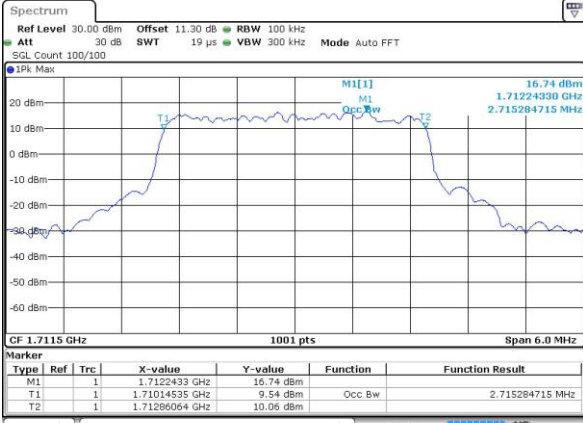


Date: 30 MAR 2018 20:35:31



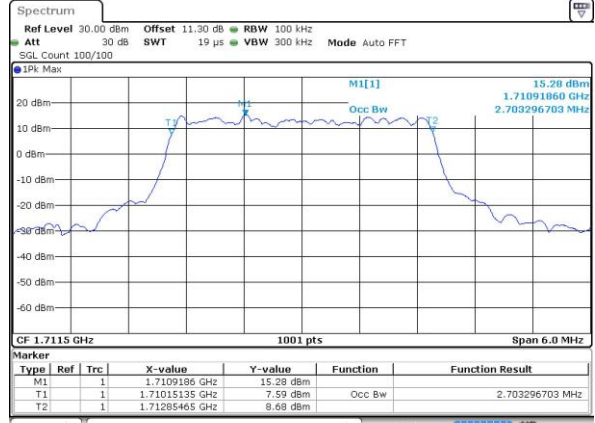
LTE Band 4

Lowest Channel / 3MHz / QPSK



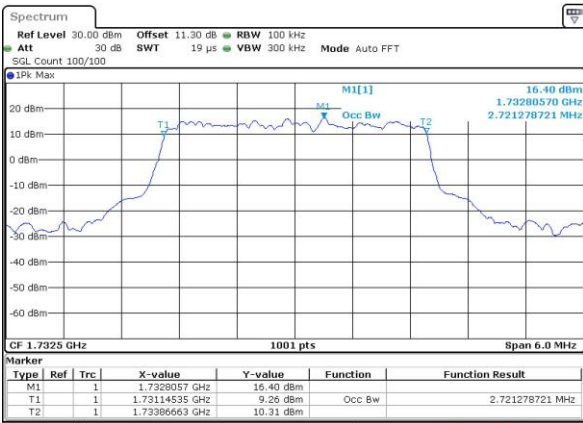
Date: 30 MAR 2018 18:57:39

Lowest Channel / 3MHz / 16QAM



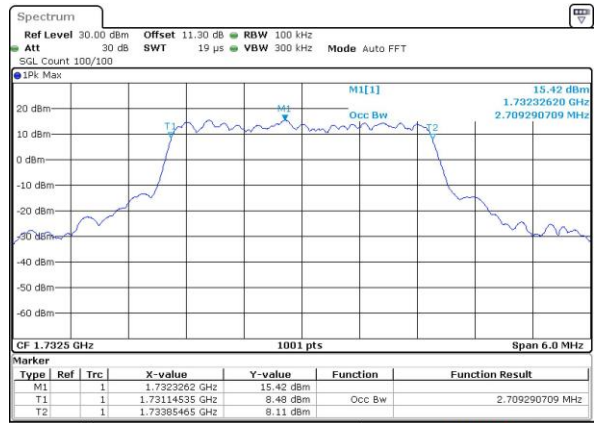
Date: 30 MAR 2018 18:57:49

Middle Channel / 3MHz / QPSK



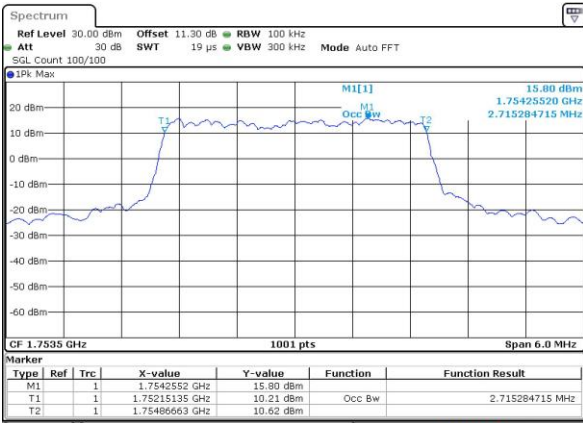
Date: 30 MAR 2018 19:04:42

Middle Channel / 3MHz / 16QAM



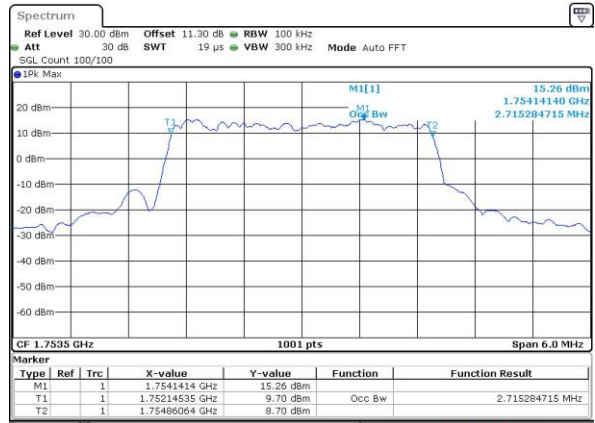
Date: 30 MAR 2018 19:04:52

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2018 19:07:13

Highest Channel / 3MHz / 16QAM

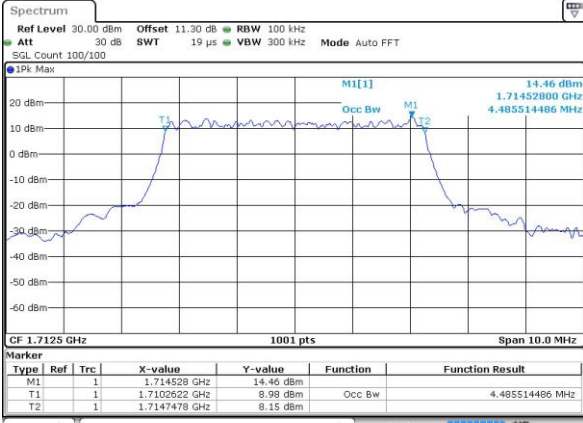


Date: 30 MAR 2018 19:07:23



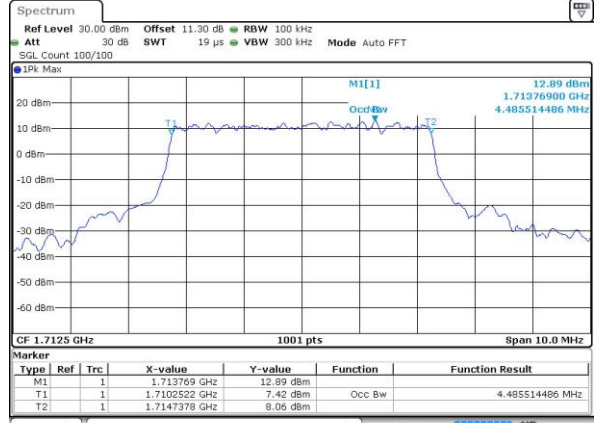
LTE Band 4

Lowest Channel / 5MHz / QPSK



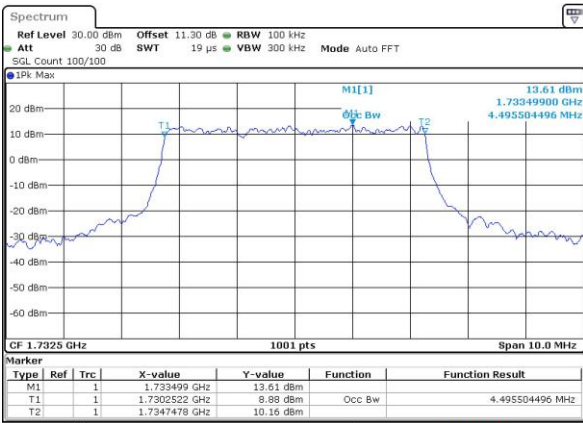
Date: 30 MAR 2018 19:14:15

Lowest Channel / 5MHz / 16QAM



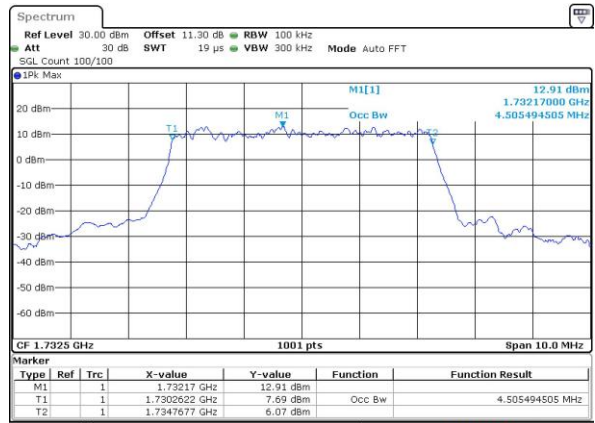
Date: 30 MAR 2018 19:14:25

Middle Channel / 5MHz / QPSK



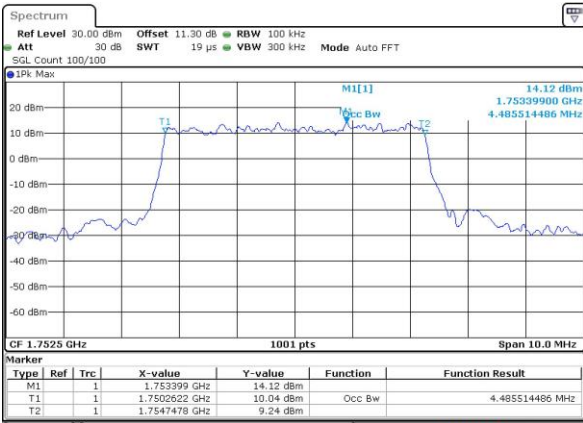
Date: 30 MAR 2018 19:21:18

Middle Channel / 5MHz / 16QAM



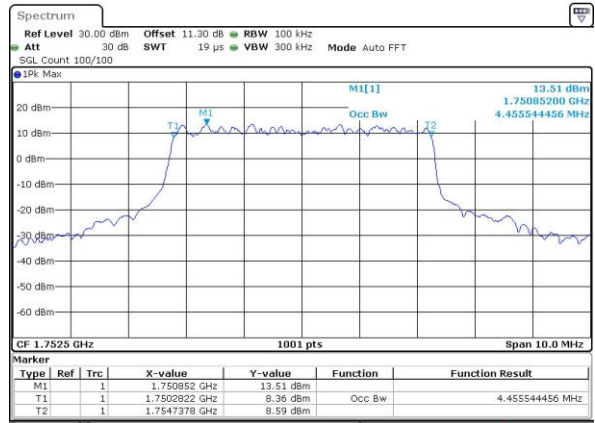
Date: 30 MAR 2018 19:21:28

Highest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:23:48

Highest Channel / 5MHz / 16QAM

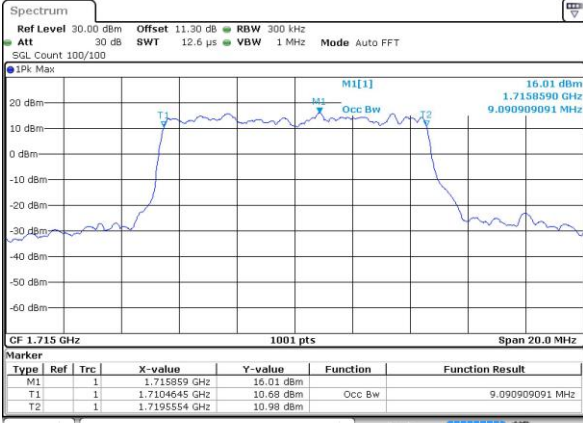


Date: 30 MAR 2018 19:23:58



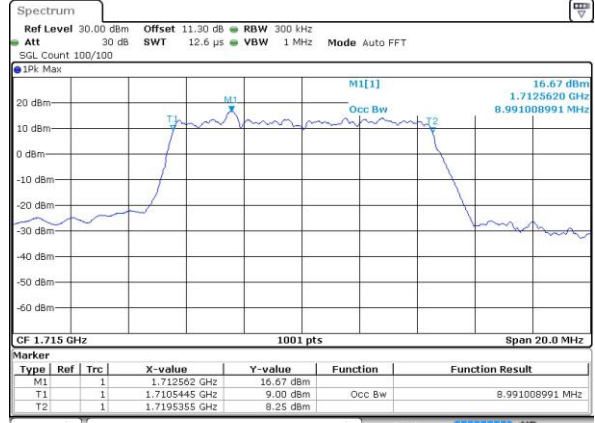
LTE Band 4

Lowest Channel / 10MHz / QPSK



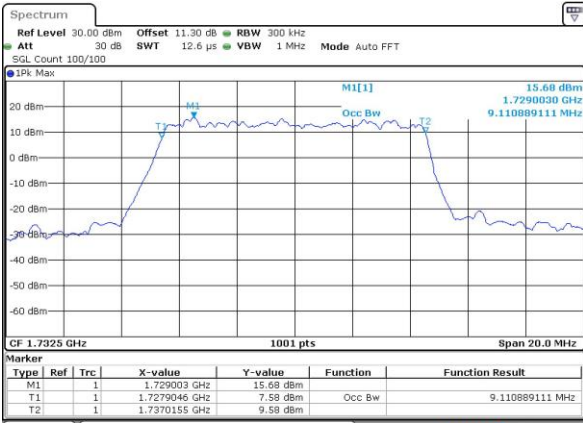
Date: 30 MAR 2018 19:30:50

Lowest Channel / 10MHz / 16QAM



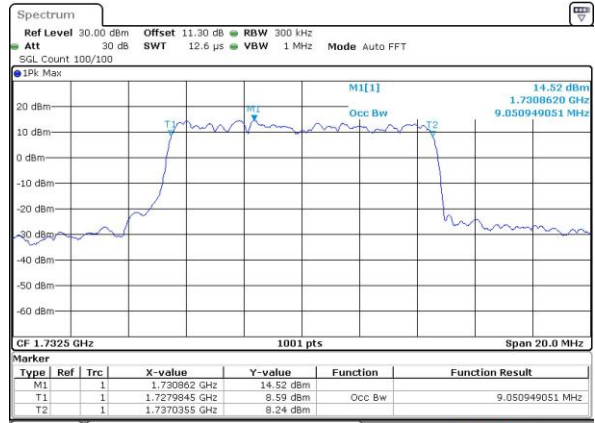
Date: 30 MAR 2018 19:31:01

Middle Channel / 10MHz / QPSK



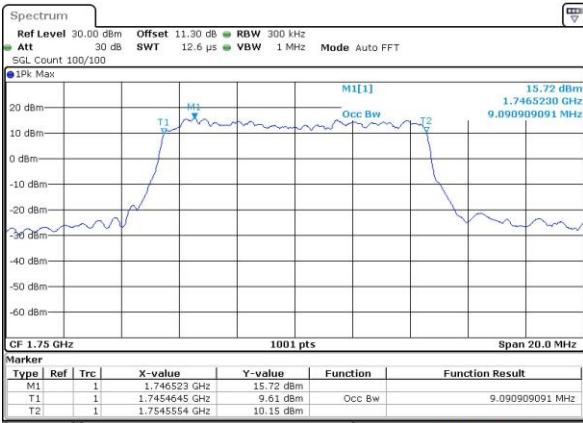
Date: 30 MAR 2018 19:37:51

Middle Channel / 10MHz / 16QAM



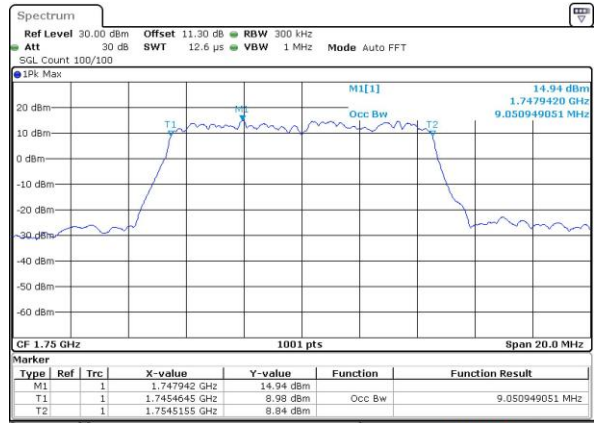
Date: 30 MAR 2018 19:38:02

Highest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:40:21

Highest Channel / 10MHz / 16QAM

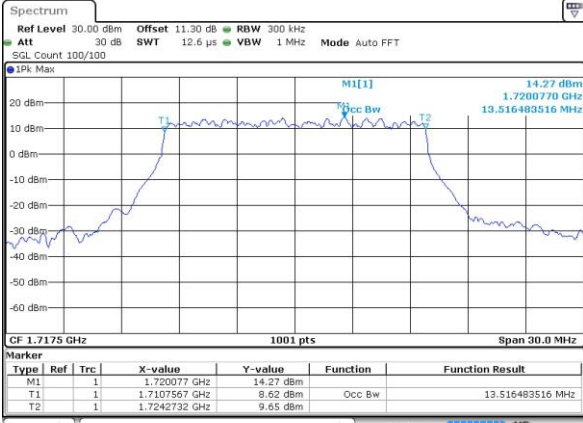


Date: 30 MAR 2018 19:40:32



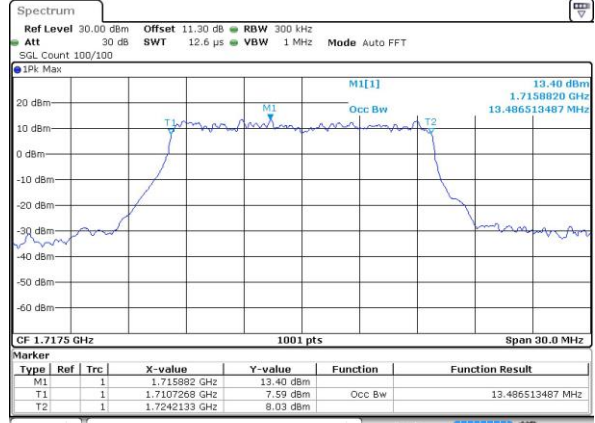
LTE Band 4

Lowest Channel / 15MHz / QPSK



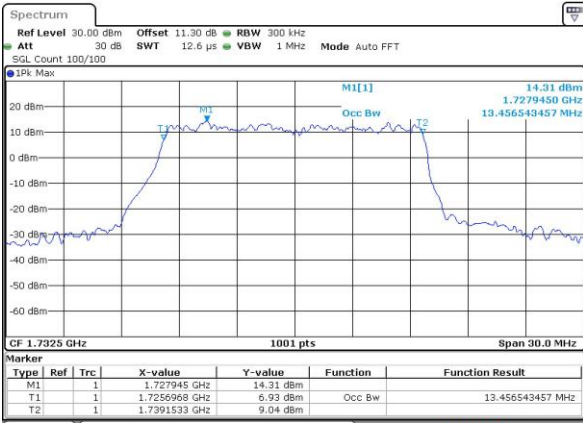
Date: 30 MAR 2018 19:47:23

Lowest Channel / 15MHz / 16QAM



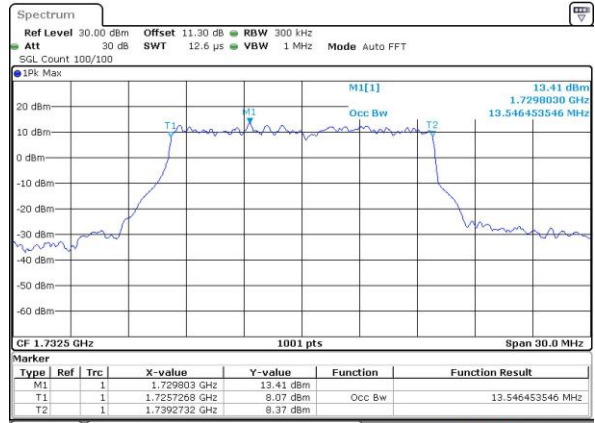
Date: 30 MAR 2018 19:47:33

Middle Channel / 15MHz / QPSK



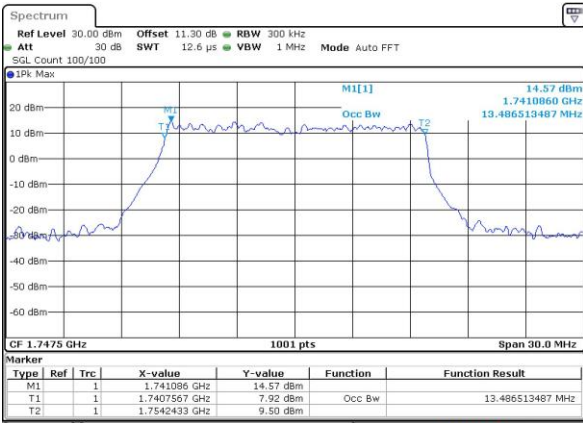
Date: 30 MAR 2018 19:54:24

Middle Channel / 15MHz / 16QAM



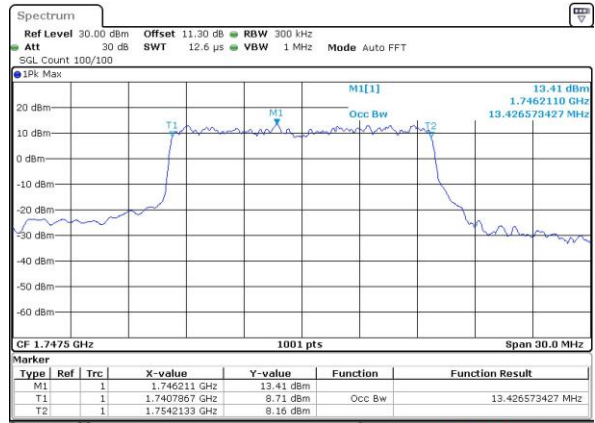
Date: 30 MAR 2018 19:54:34

Highest Channel / 15MHz / QPSK



Date: 30 MAR 2018 19:56:54

Highest Channel / 15MHz / 16QAM

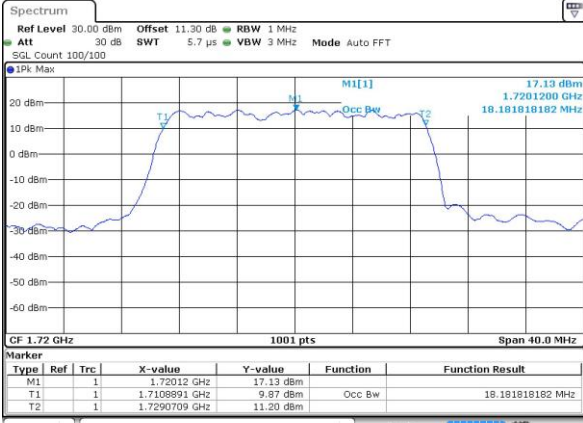


Date: 30 MAR 2018 19:57:04



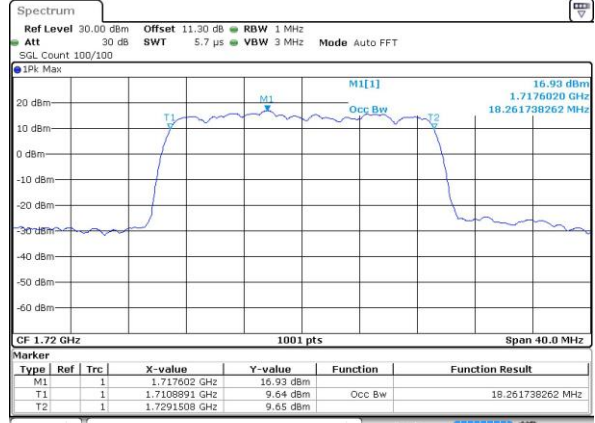
LTE Band 4

Lowest Channel / 20MHz / QPSK



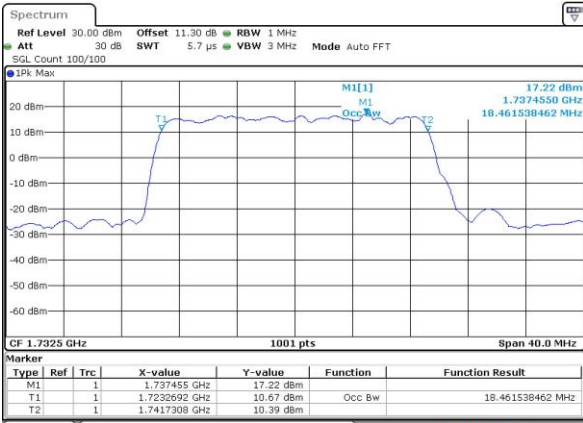
Date: 30 MAR 2018 20:07:50

Lowest Channel / 20MHz / 16QAM



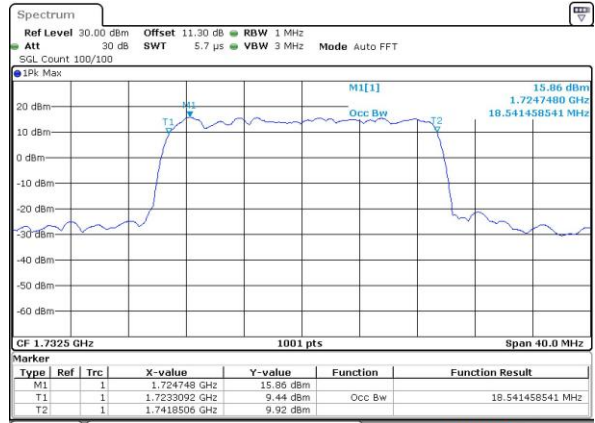
Date: 30 MAR 2018 20:08:00

Middle Channel / 20MHz / QPSK



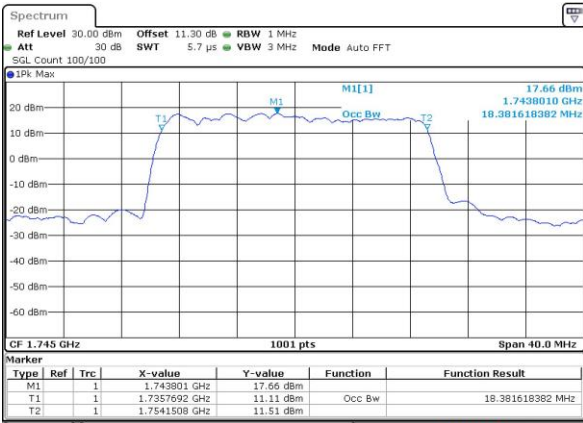
Date: 30 MAR 2018 20:14:51

Middle Channel / 20MHz / 16QAM



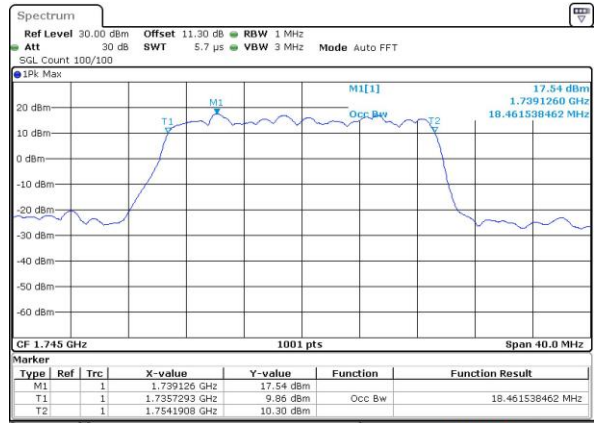
Date: 30 MAR 2018 20:15:01

Highest Channel / 20MHz / QPSK



Date: 30 MAR 2018 20:17:21

Highest Channel / 20MHz / 16QAM



Date: 30 MAR 2018 20:17:31