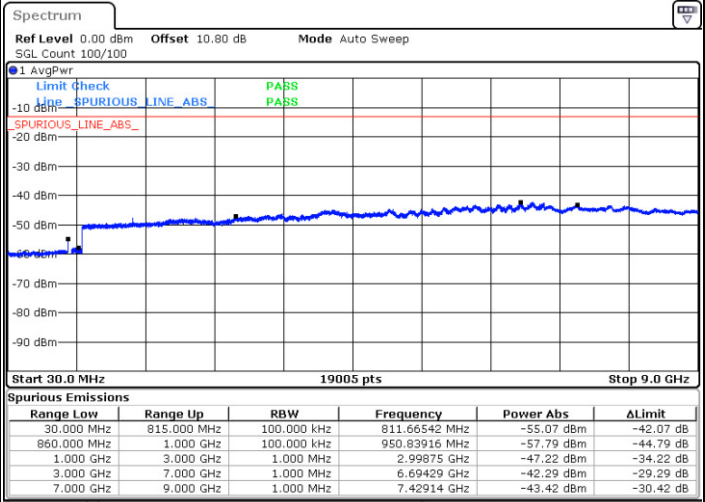
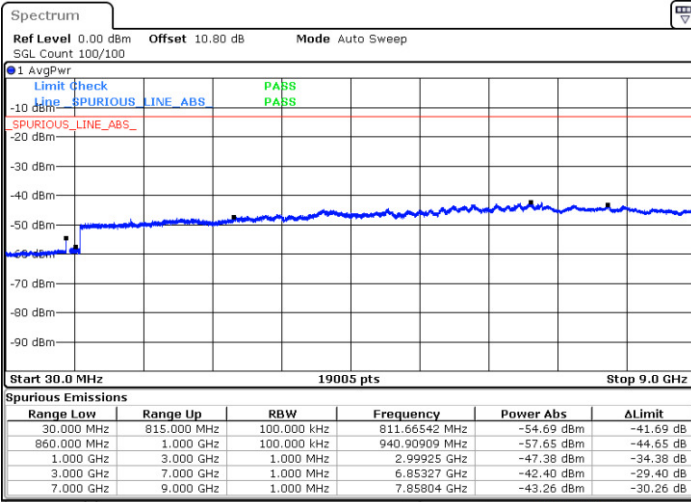




LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

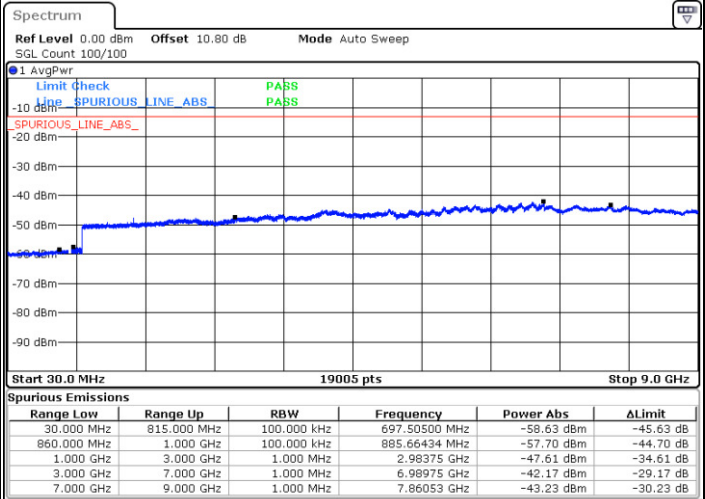
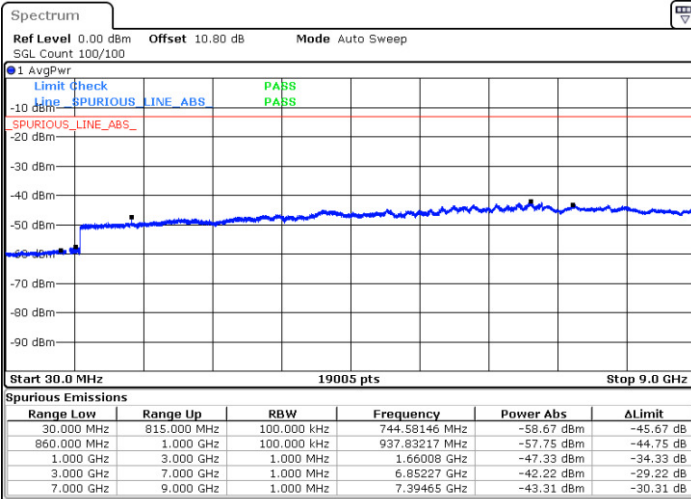


Date: 6 JAN 2018 19:23:55

Date: 6 JAN 2018 19:24:55

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6 JAN 2018 19:26:35

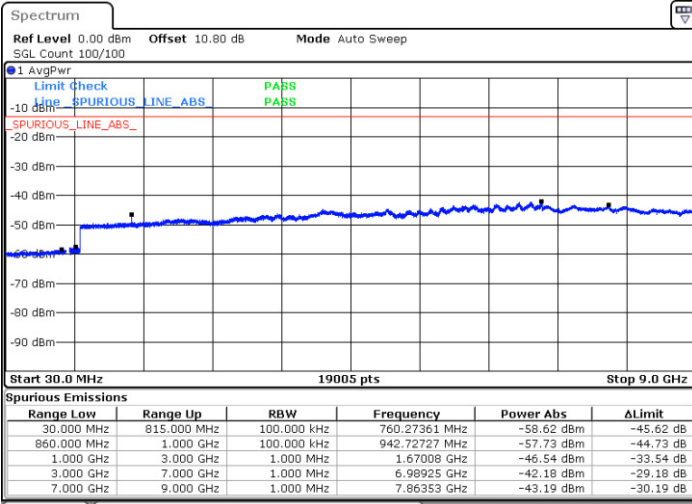
Date: 6 JAN 2018 19:27:35



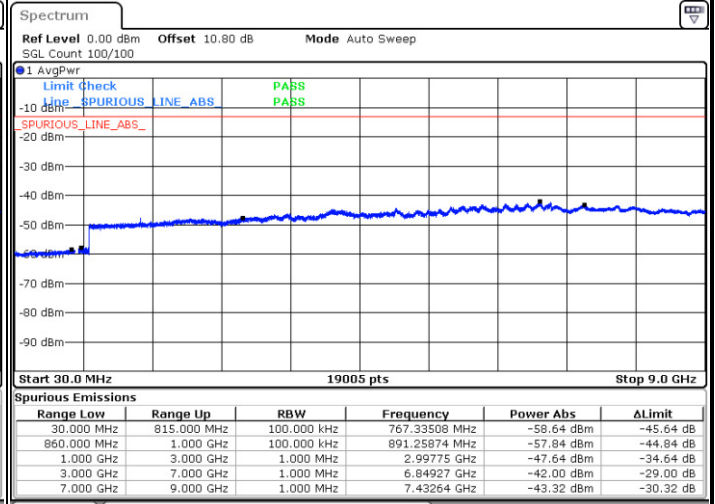
LTE Band 26 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 JAN 2018 19:34:14



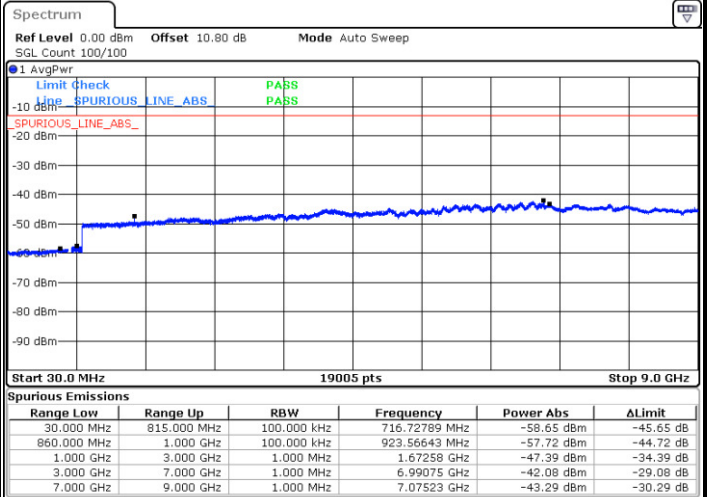
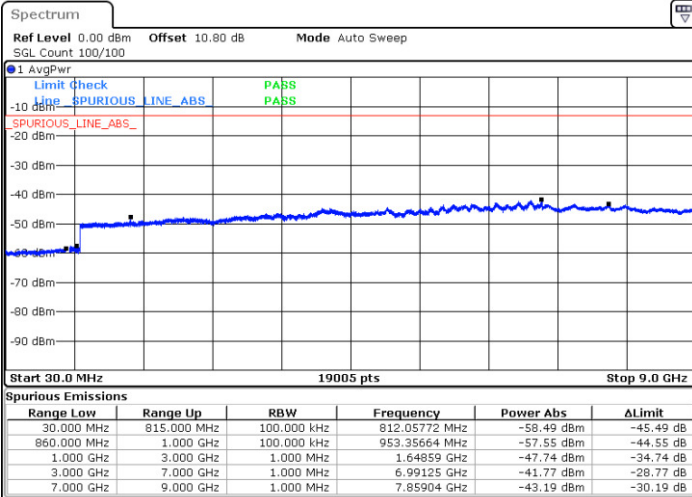
Date: 6 JAN 2018 19:35:08



LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

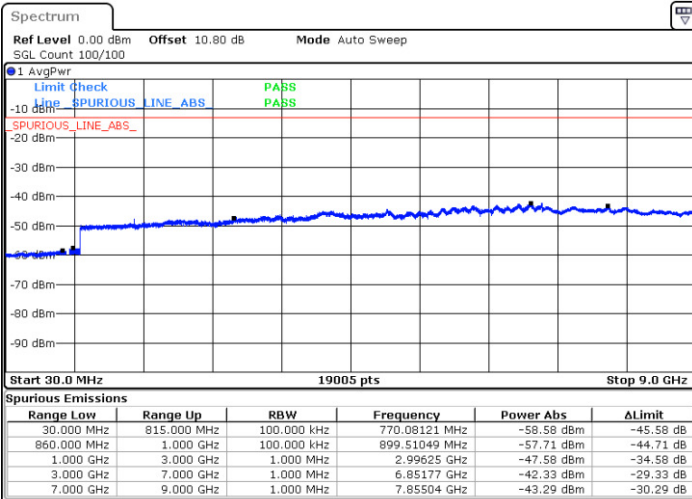
Middle Channel / 64QAM



Date: 1.FEB.2018 20:20:25

Date: 1.FEB.2018 20:21:39

Highest Channel / 64QAM



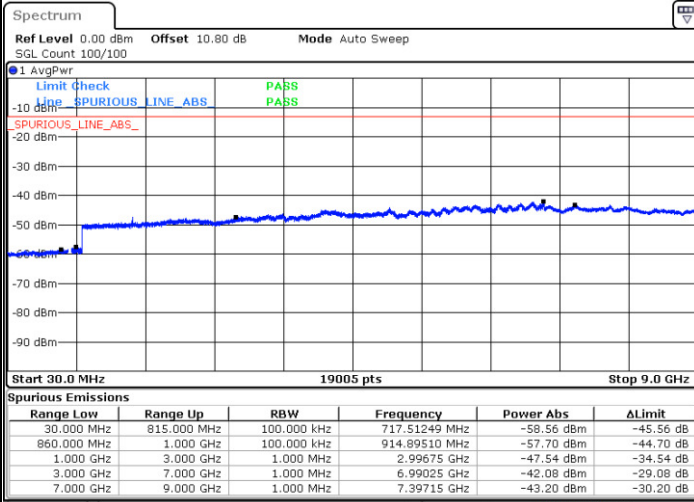
Date: 1.FEB.2018 20:31:14



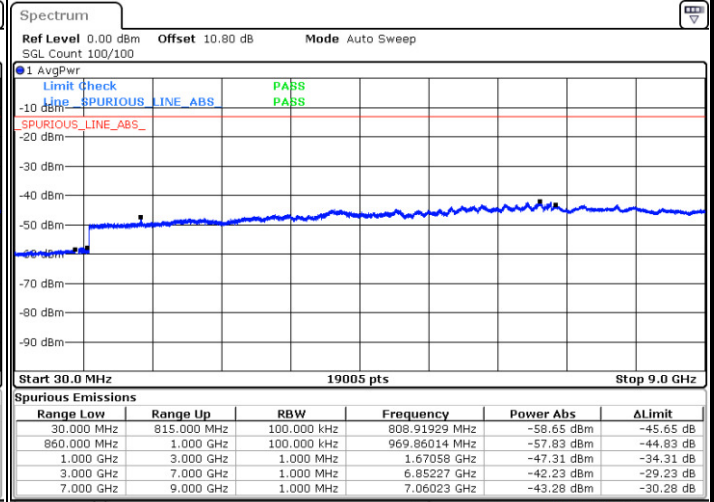
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

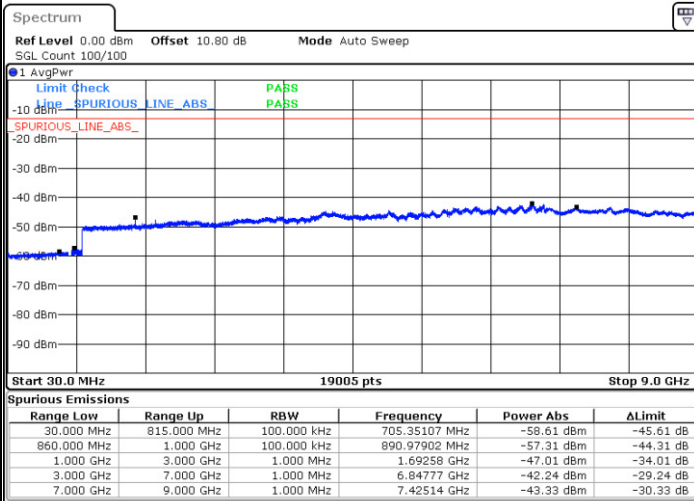


Date: 1.FEB.2018 20:34:45



Date: 1.FEB.2018 20:35:59

Highest Channel / 64QAM



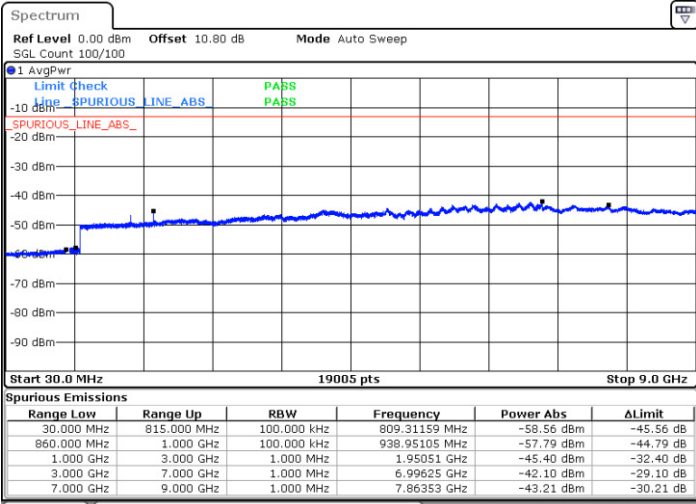
Date: 1.FEB.2018 20:39:30



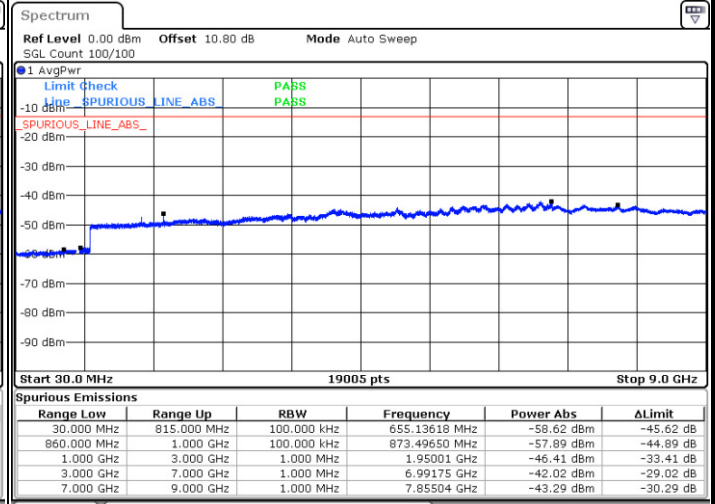
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

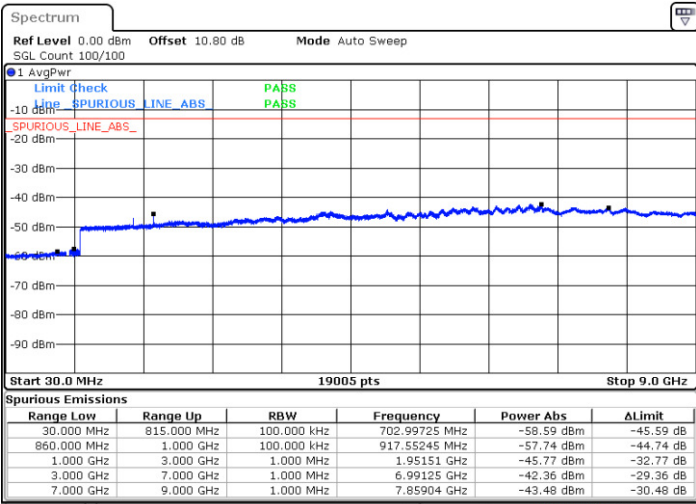


Date: 1.FEB.2018 20:43:01



Date: 1.FEB.2018 20:44:15

Highest Channel / 64QAM



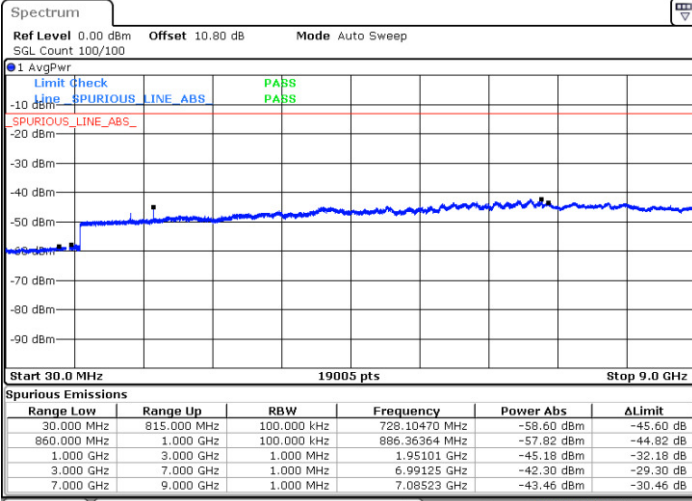
Date: 1.FEB.2018 20:47:46



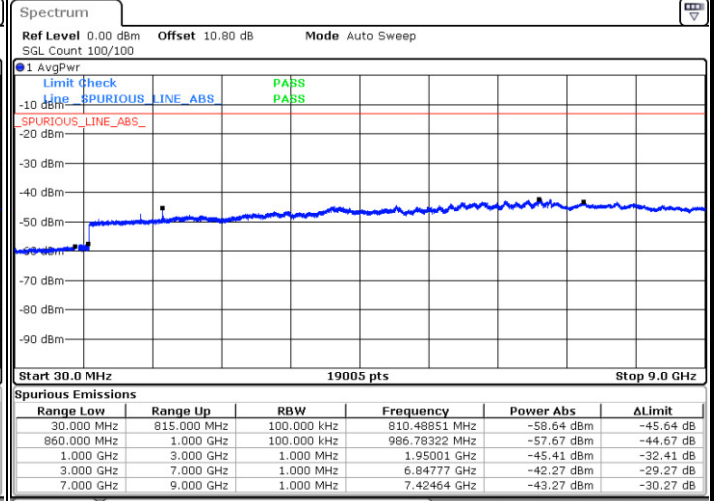
LTE Band 26 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

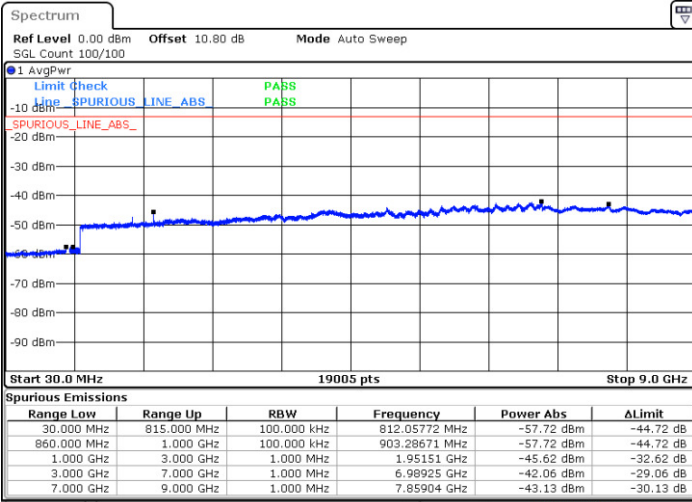


Date: 1.FEB.2018 20:51:17



Date: 1.FEB.2018 20:52:31

Highest Channel / 64QAM



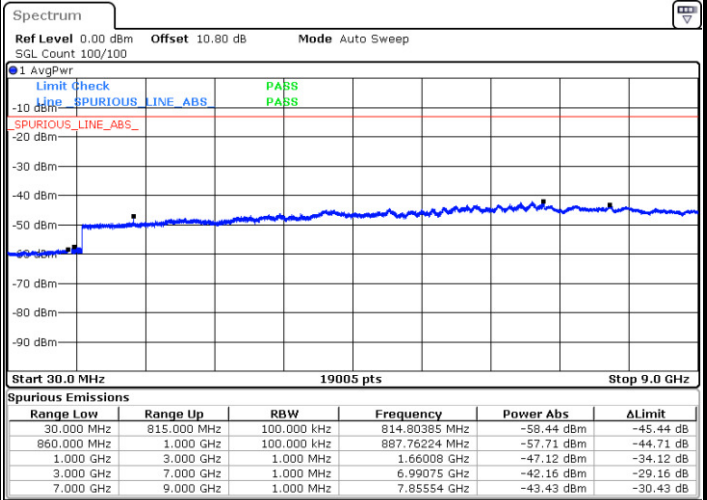
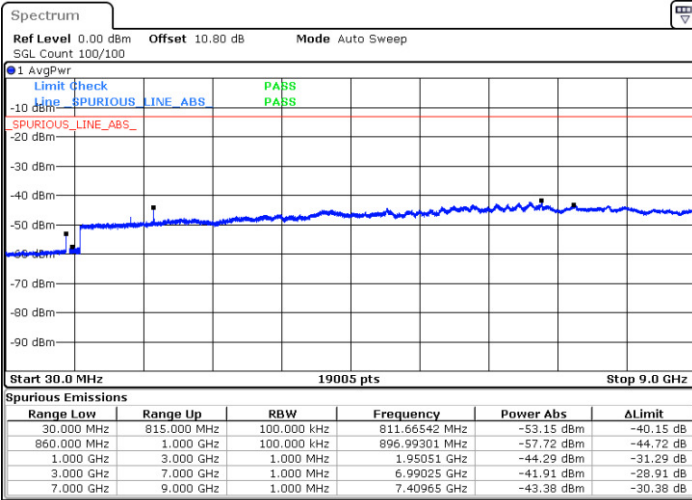
Date: 1.FEB.2018 20:56:02



LTE Band 26 / 15MHz

Lowest Channel / 64QAM

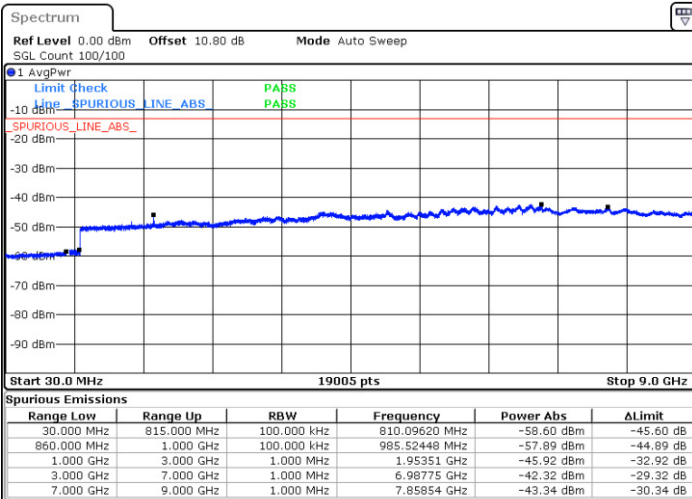
Middle Channel / 64QAM



Date: 1.FEB.2018 20:59:33

Date: 1.FEB.2018 21:00:47

Highest Channel / 64QAM



Date: 1.FEB.2018 21:04:18



Frequency Stability

| Test Conditions | | LTE Band 26 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0018 | PASS |
| 40 | Normal Voltage | 0.0025 | |
| 30 | Normal Voltage | 0.0023 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0084 | |
| 0 | Normal Voltage | 0.0020 | |
| -10 | Normal Voltage | 0.0096 | |
| -20 | Normal Voltage | 0.0017 | |
| -30 | Normal Voltage | 0.0096 | |
| 20 | Maximum Voltage | 0.0098 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0026 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

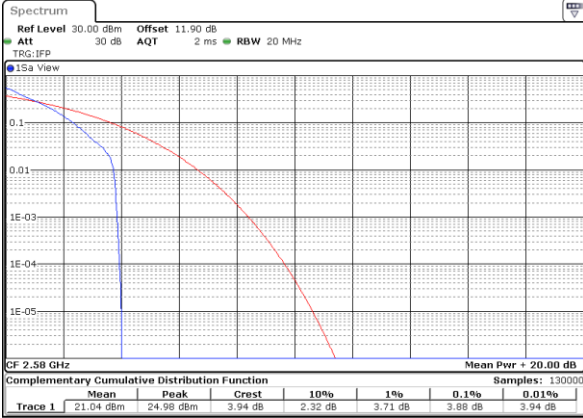
Peak-to-Average Ratio

| Mode | LTE Band 38 / 20MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.88 | 4.58 | 5.04 | 5.51 | PASS |
| Middle CH | 3.97 | 4.64 | 4.87 | 5.57 | |
| Highest CH | 4.06 | 4.75 | 4.9 | 5.71 | |
| Mode | LTE Band 38 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.54 | 5.97 | - | - | PASS |
| Middle CH | 5.59 | 6.00 | - | - | |
| Highest CH | 5.65 | 6.12 | - | - | |



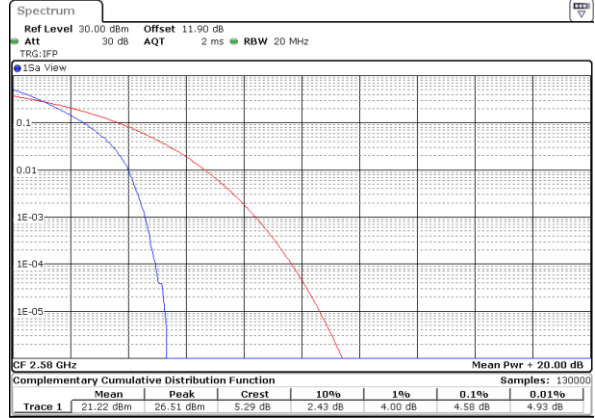
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



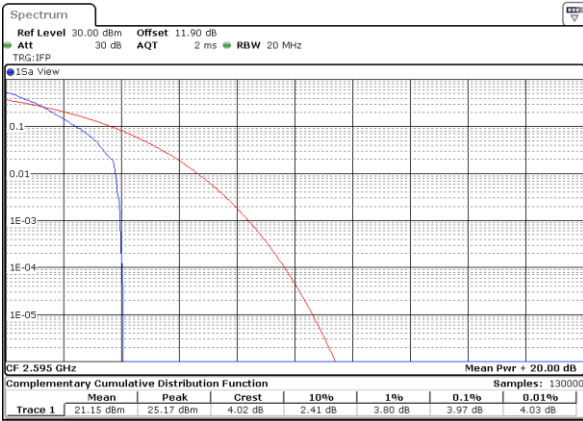
Date: 7 JAN 2018 01:34:11

Lowest Channel / Full RB



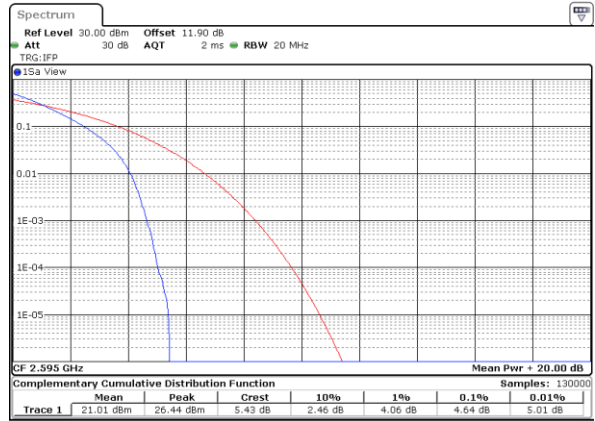
Date: 7 JAN 2018 01:34:32

Middle Channel / 1RB



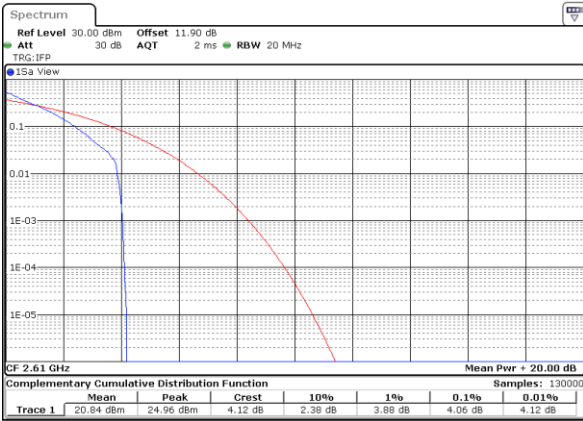
Date: 7 JAN 2018 01:34:45

Middle Channel / Full RB



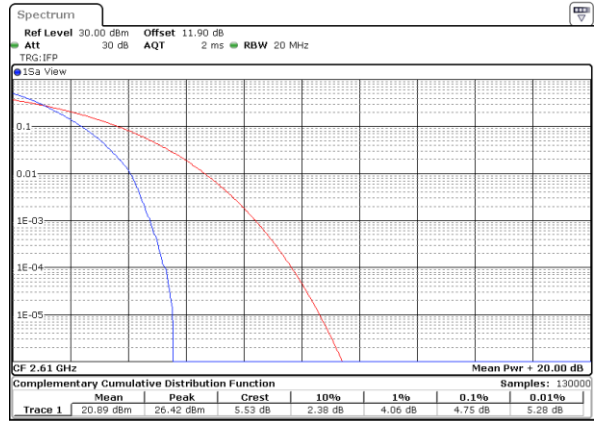
Date: 7 JAN 2018 01:34:58

Highest Channel / 1RB



Date: 7 JAN 2018 01:35:12

Highest Channel / Full RB

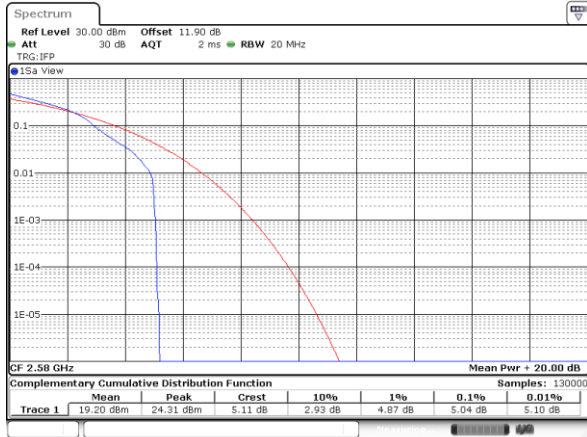


Date: 7 JAN 2018 01:35:25



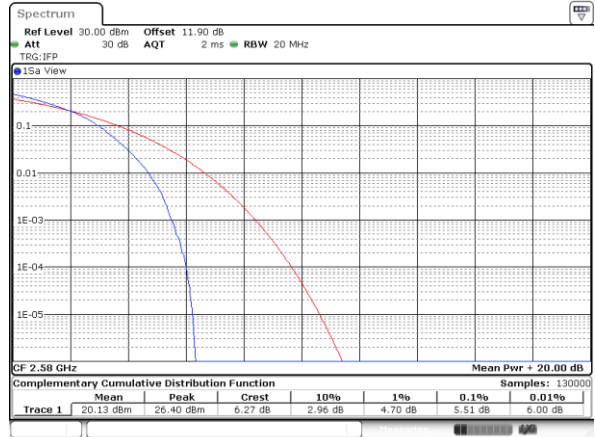
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



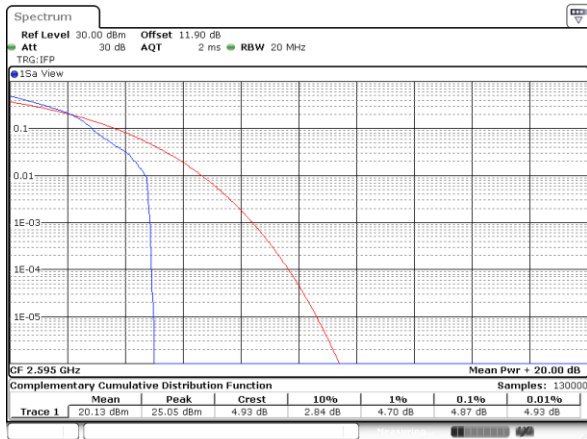
Date: 7 JAN 2018 01:36:33

Lowest Channel / Full RB



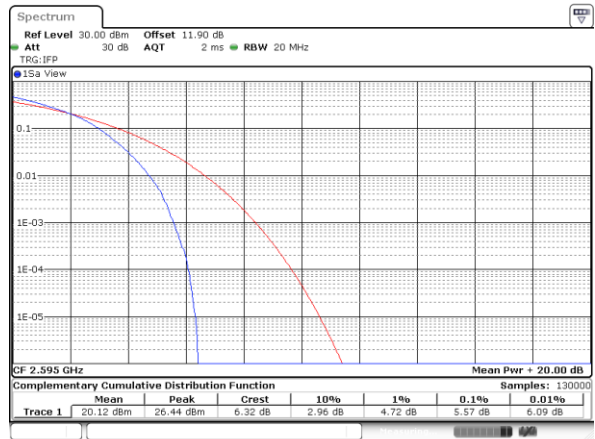
Date: 7 JAN 2018 01:37:04

Middle Channel / 1RB



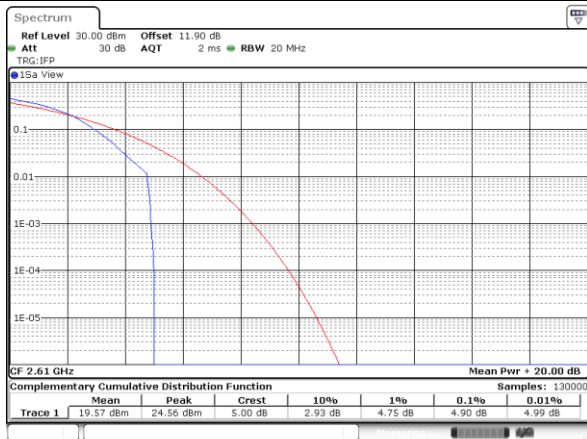
Date: 7 JAN 2018 01:37:21

Middle Channel / Full RB



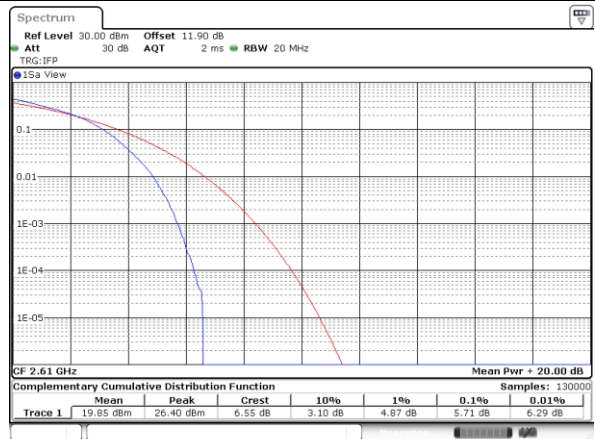
Date: 7 JAN 2018 01:37:41

Highest Channel / 1RB



Date: 7 JAN 2018 01:33:37

Highest Channel / Full RB

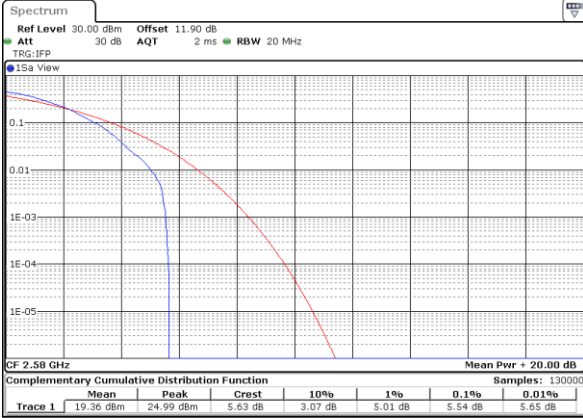


Date: 7 JAN 2018 01:33:52



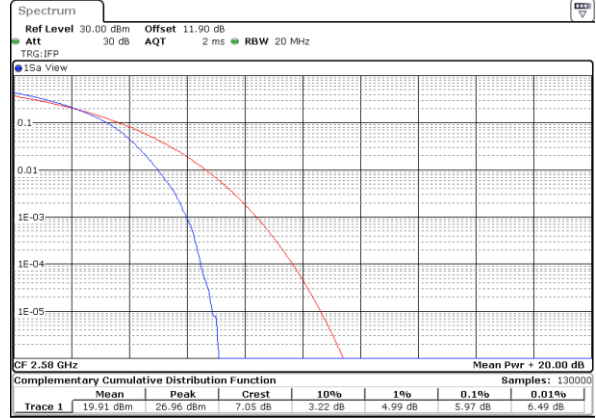
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



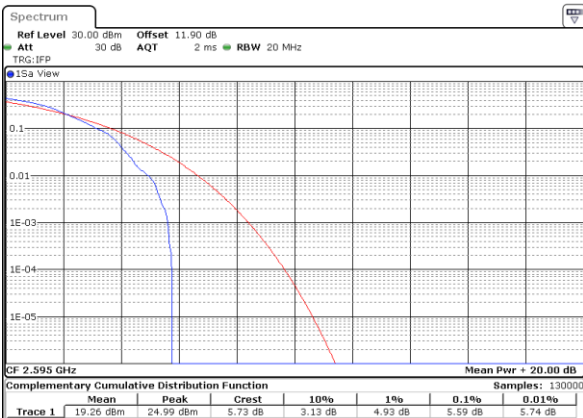
Date: 2 FEB 2018 00:40:07

Lowest Channel / Full RB



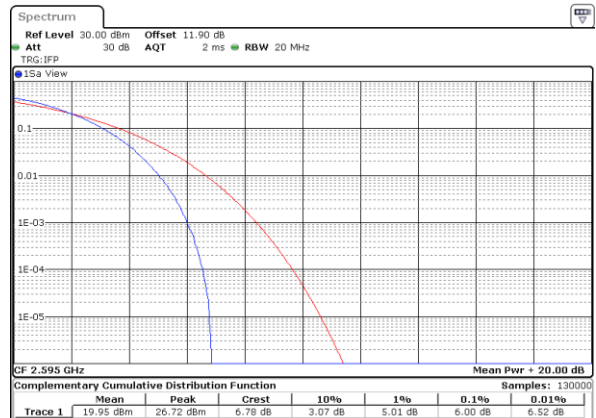
Date: 2 FEB 2018 00:40:21

Middle Channel / 1RB



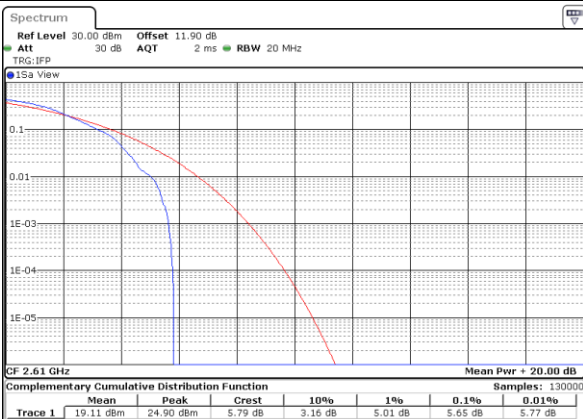
Date: 2 FEB 2018 00:40:36

Middle Channel / Full RB



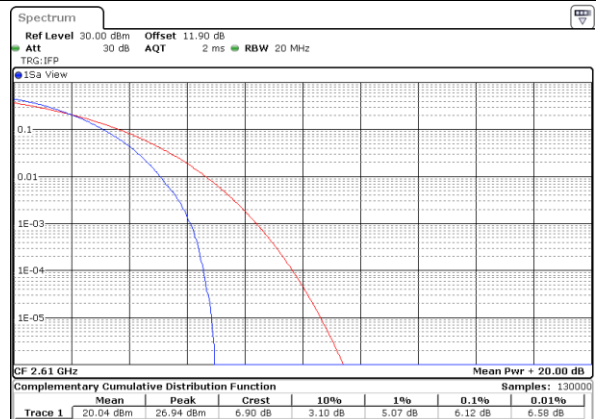
Date: 2 FEB 2018 00:40:49

Highest Channel / 1RB



Date: 2 FEB 2018 00:38:55

Highest Channel / Full RB



Date: 2 FEB 2018 00:39:10



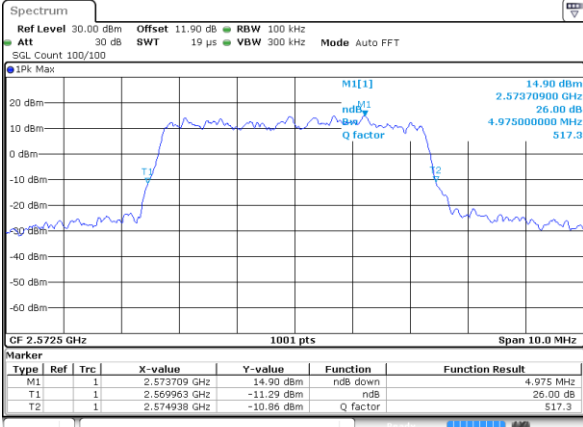
26dB Bandwidth

| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.98 | 4.77 | 9.79 | 9.65 | 14.09 | 14.15 | 20.14 | 20.10 |
| Middle CH | - | - | - | - | 4.94 | 4.87 | 9.63 | 9.61 | 14.42 | 14.36 | 20.10 | 20.18 |
| Highest CH | - | - | - | - | 4.92 | 4.87 | 9.69 | 9.61 | 14.27 | 14.12 | 20.14 | 20.06 |
| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.79 | - | 9.63 | - | 14.42 | - | 20.18 | - |
| Middle CH | - | - | - | - | 4.73 | - | 9.63 | - | 14.36 | - | 20.54 | - |
| Highest CH | - | - | - | - | 4.81 | - | 10.01 | - | 14.21 | - | 20.06 | - |



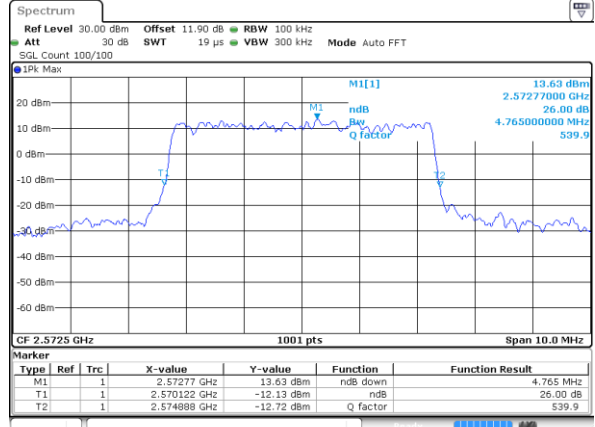
LTE Band 38

Lowest Channel / 5MHz / QPSK



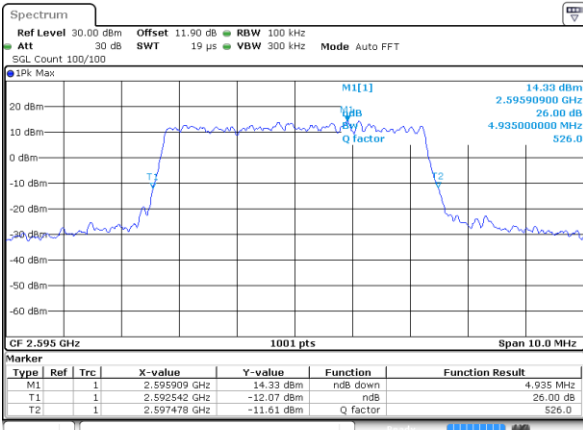
Date: 7 JAN 2018 01:10:02

Lowest Channel / 5MHz / 16QAM



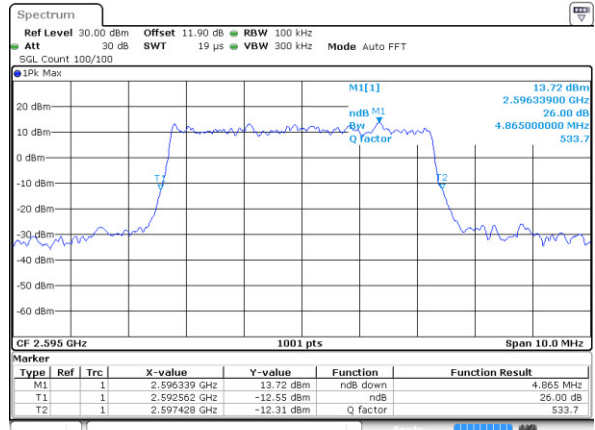
Date: 7 JAN 2018 01:10:12

Middle Channel / 5MHz / QPSK



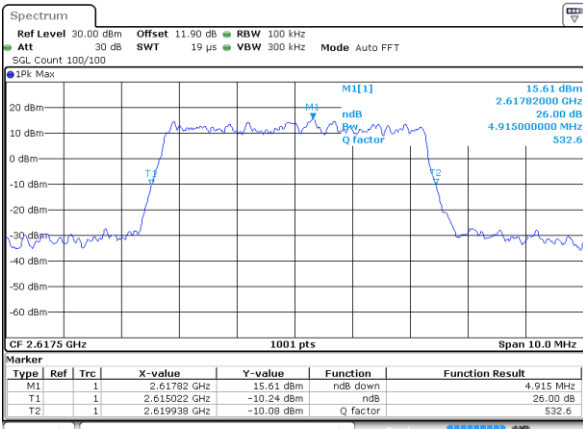
Date: 7 JAN 2018 01:10:42

Middle Channel / 5MHz / 16QAM



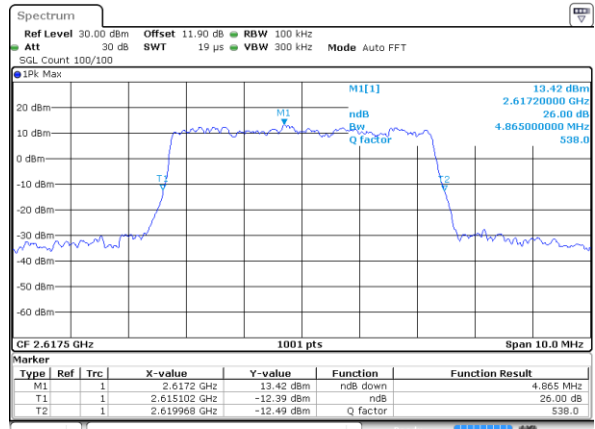
Date: 7 JAN 2018 01:10:52

Highest Channel / 5MHz / QPSK



Date: 7 JAN 2018 01:11:22

Highest Channel / 5MHz / 16QAM

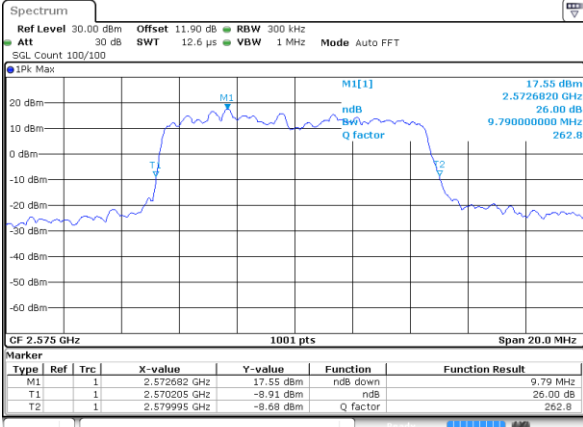


Date: 7 JAN 2018 01:11:32



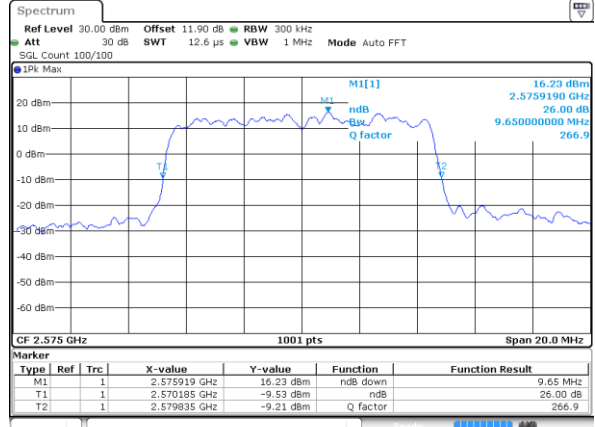
LTE Band 38

Lowest Channel / 10MHz / QPSK



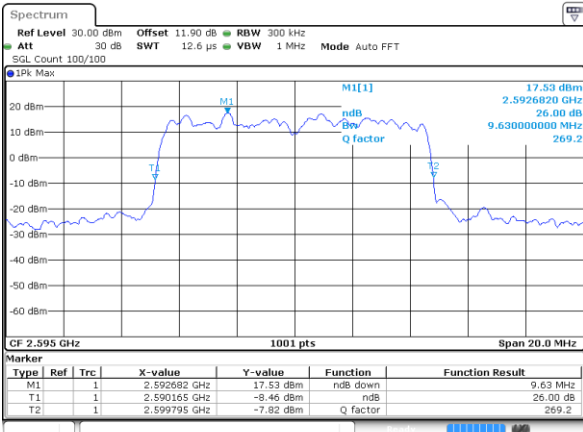
Date: 7 JAN 2018 01:12:02

Lowest Channel / 10MHz / 16QAM



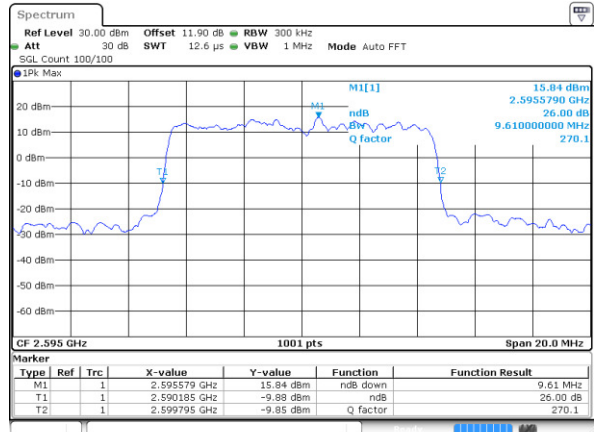
Date: 7 JAN 2018 01:12:12

Middle Channel / 10MHz / QPSK



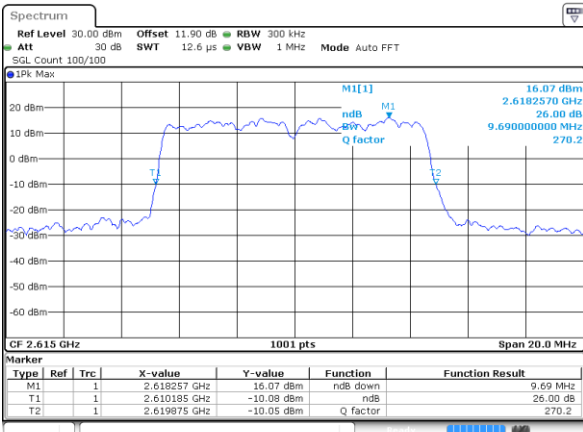
Date: 7 JAN 2018 01:12:42

Middle Channel / 10MHz / 16QAM



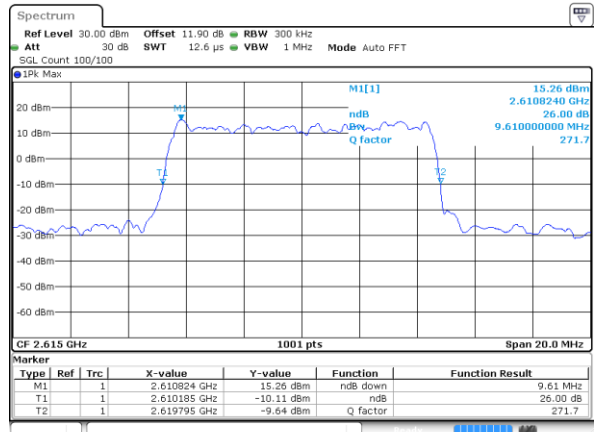
Date: 7 JAN 2018 01:12:52

Highest Channel / 10MHz / QPSK



Date: 7 JAN 2018 01:13:22

Highest Channel / 10MHz / 16QAM

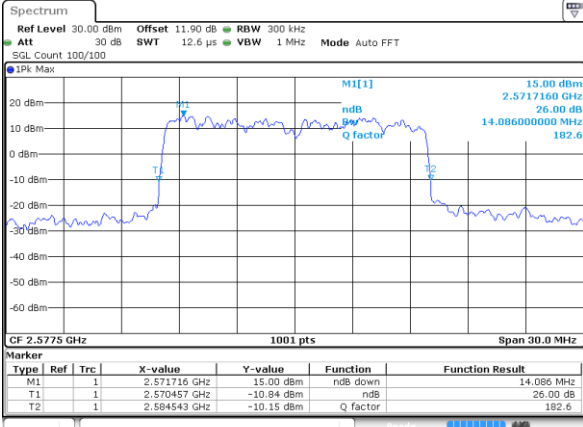


Date: 7 JAN 2018 01:13:32



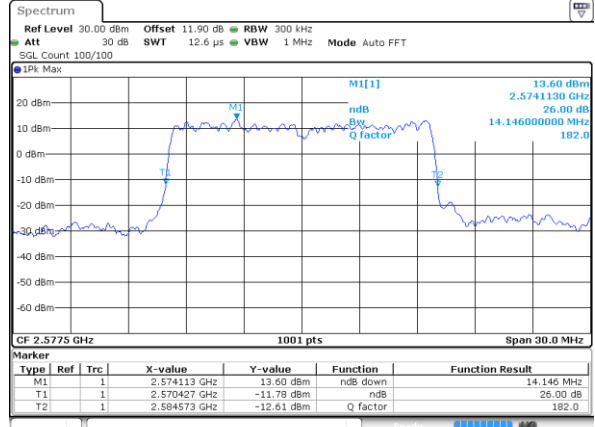
LTE Band 38

Lowest Channel / 15MHz / QPSK



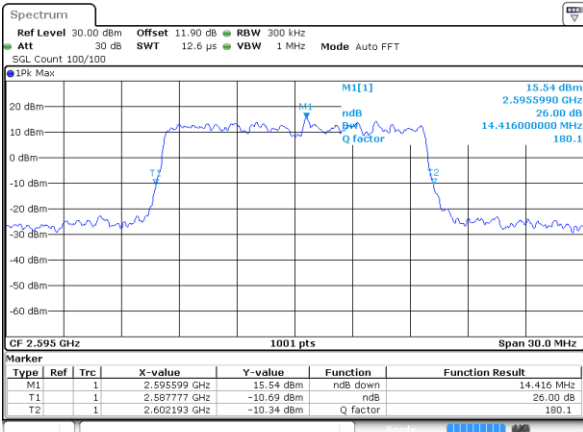
Date: 7 JAN 2018 01:14:02

Lowest Channel / 15MHz / 16QAM



Date: 7 JAN 2018 01:14:12

Middle Channel / 15MHz / QPSK



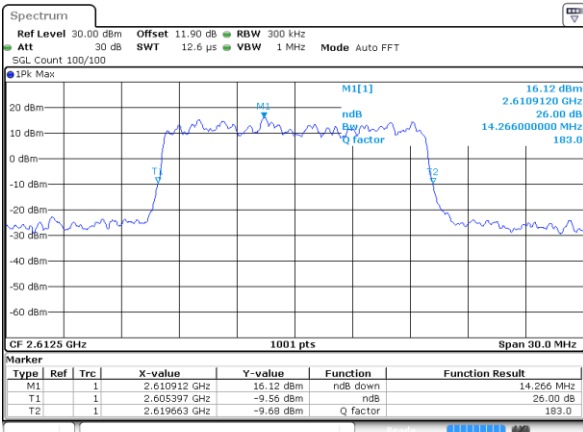
Date: 7 JAN 2018 01:14:42

Middle Channel / 15MHz / 16QAM



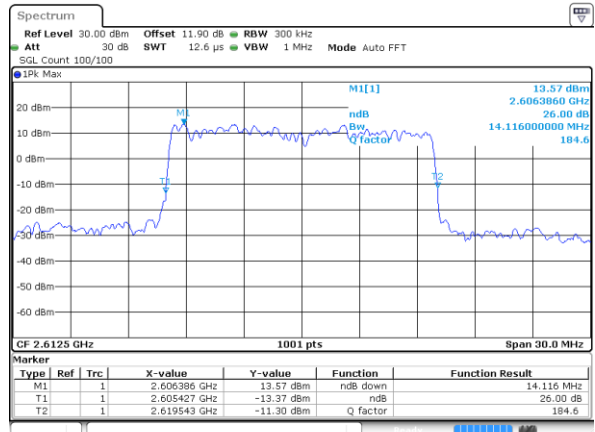
Date: 7 JAN 2018 01:14:52

Highest Channel / 15MHz / QPSK



Date: 7 JAN 2018 01:15:22

Highest Channel / 15MHz / 16QAM

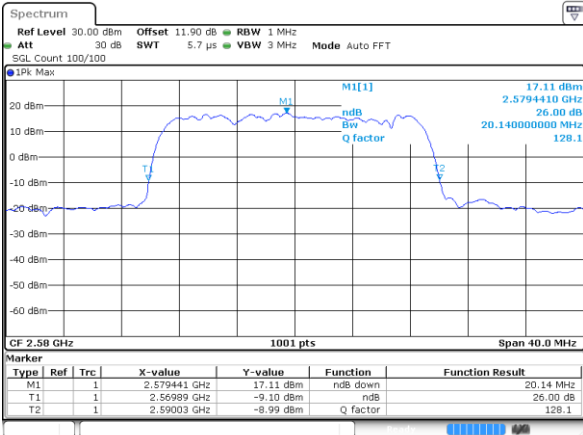


Date: 7 JAN 2018 01:15:32



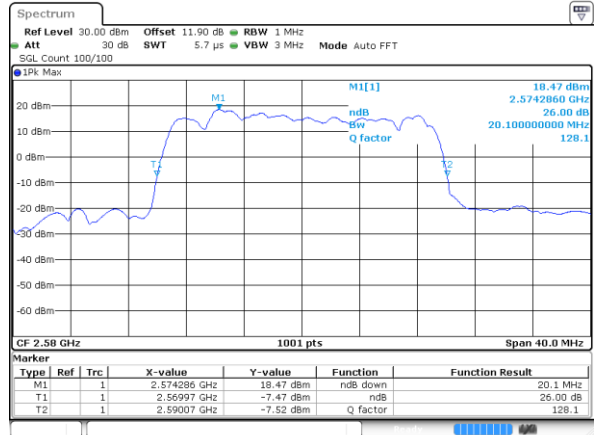
LTE Band 38

Lowest Channel / 20MHz / QPSK



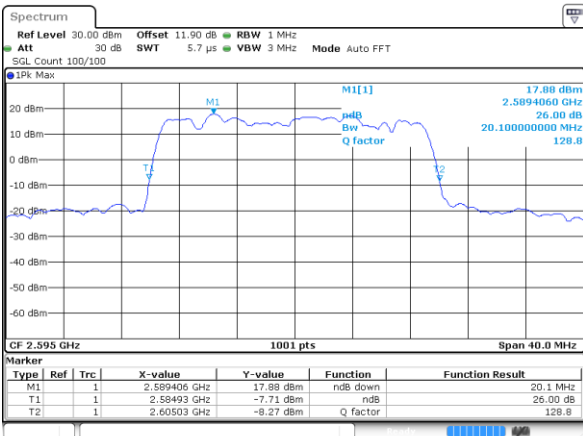
Date: 7 JAN 2018 01:16:02

Lowest Channel / 20MHz / 16QAM



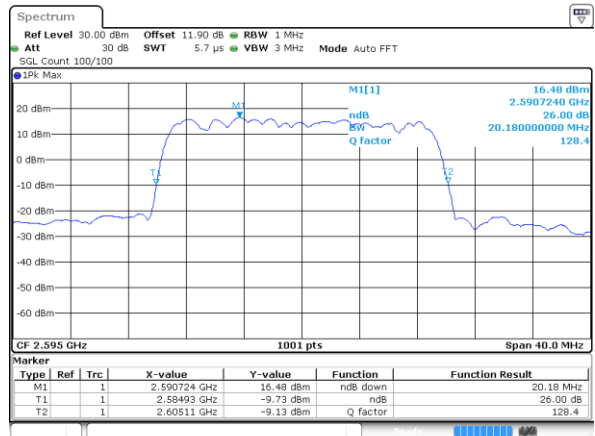
Date: 7 JAN 2018 01:16:12

Middle Channel / 20MHz / QPSK



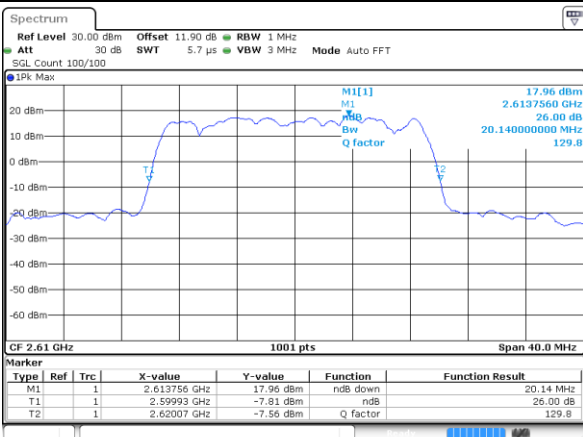
Date: 7 JAN 2018 01:16:42

Middle Channel / 20MHz / 16QAM



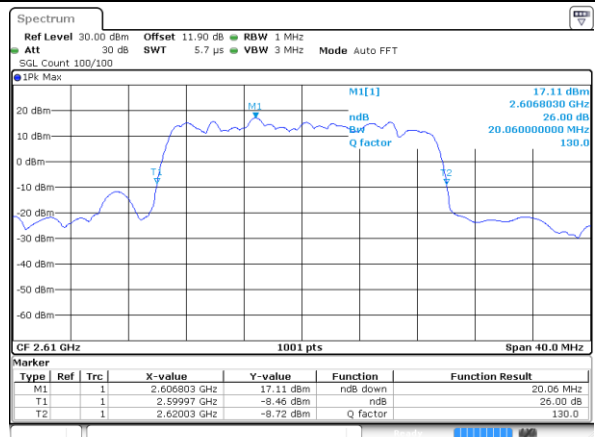
Date: 7 JAN 2018 01:16:52

Highest Channel / 20MHz / QPSK



Date: 7 JAN 2018 01:17:22

Highest Channel / 20MHz / 16QAM

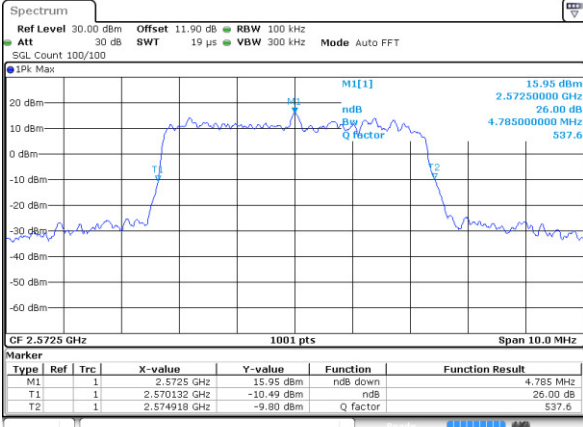


Date: 7 JAN 2018 01:17:32



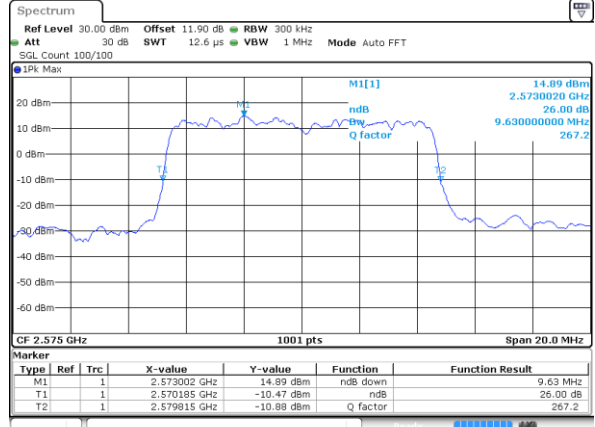
LTE Band 38

Lowest Channel / 5MHz / 64QAM



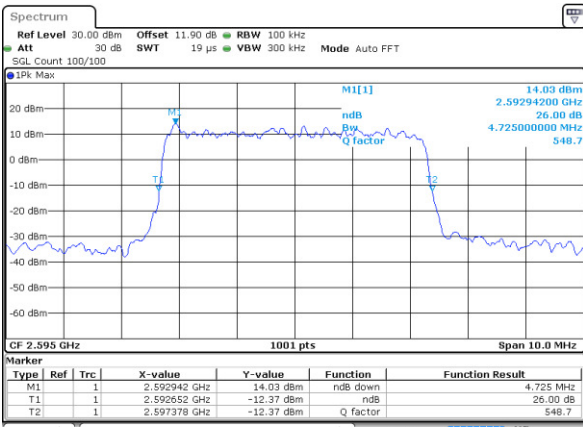
Date: 2 FEB 2018 00:29:32

Lowest Channel / 10MHz / 64QAM



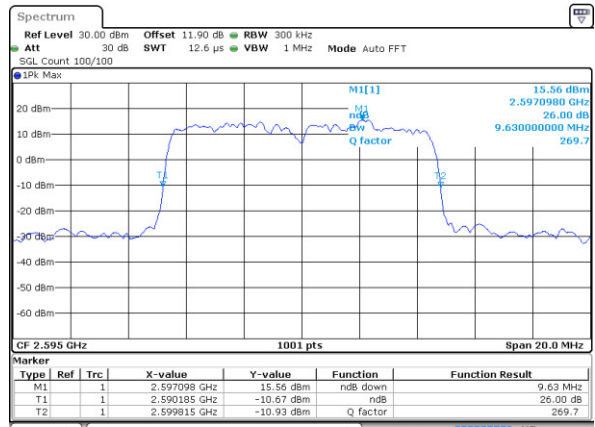
Date: 2 FEB 2018 00:30:32

Middle Channel / 5MHz / 64QAM



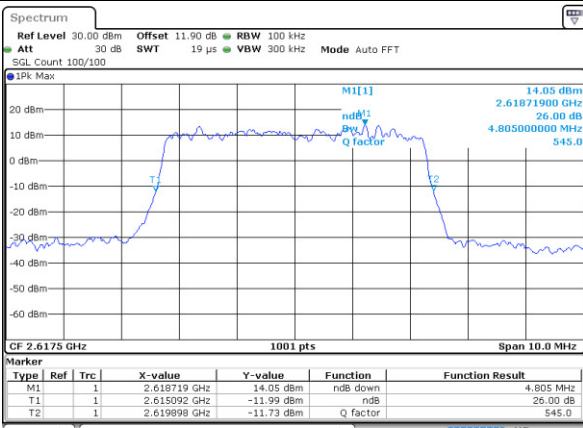
Date: 2 FEB 2018 00:29:52

Middle Channel / 10MHz / 64QAM



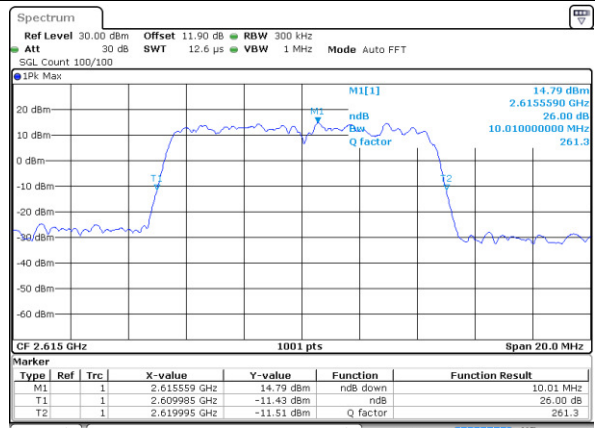
Date: 2 FEB 2018 00:30:52

Highest Channel / 5MHz / 64QAM



Date: 2 FEB 2018 00:30:12

Highest Channel / 10MHz / 64QAM

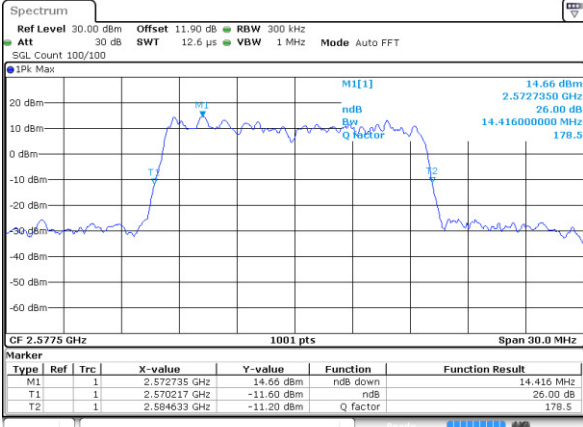


Date: 2 FEB 2018 00:31:12



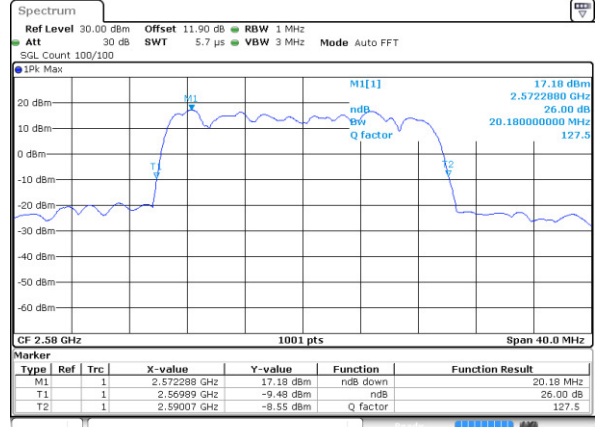
LTE Band 38

Lowest Channel / 15MHz / 64QAM



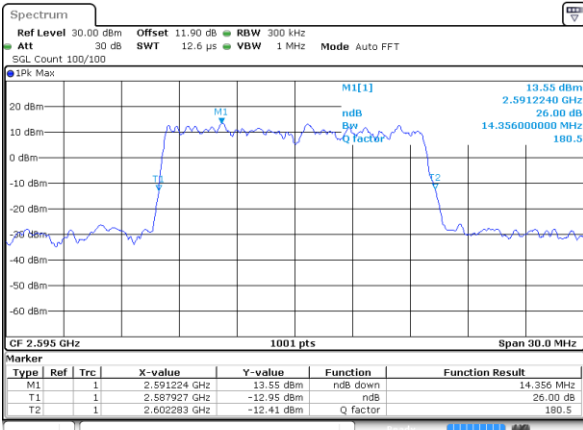
Date: 2 FEB 2018 00:31:32

Lowest Channel / 20MHz / 64QAM



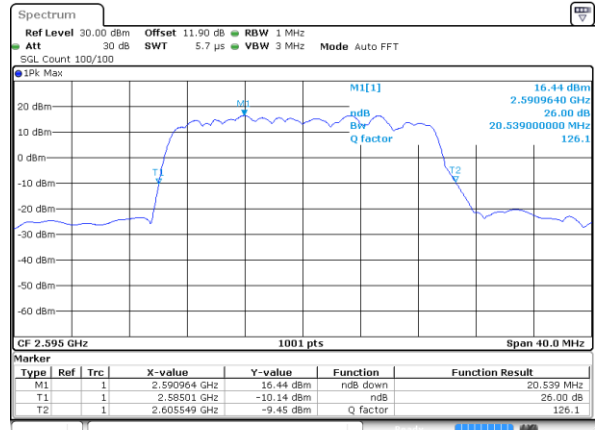
Date: 2 FEB 2018 00:32:32

Middle Channel / 15MHz / 64QAM



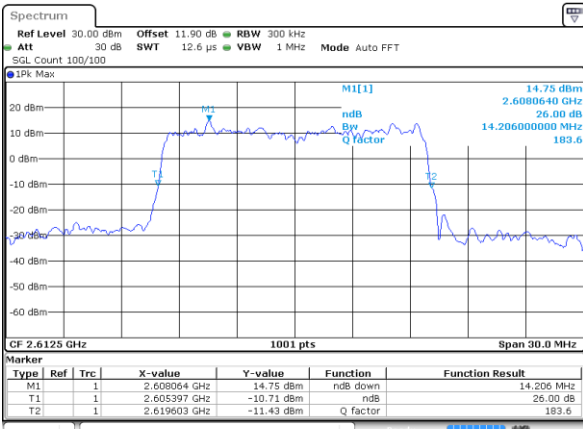
Date: 2 FEB 2018 00:31:52

Middle Channel / 20MHz / 64QAM



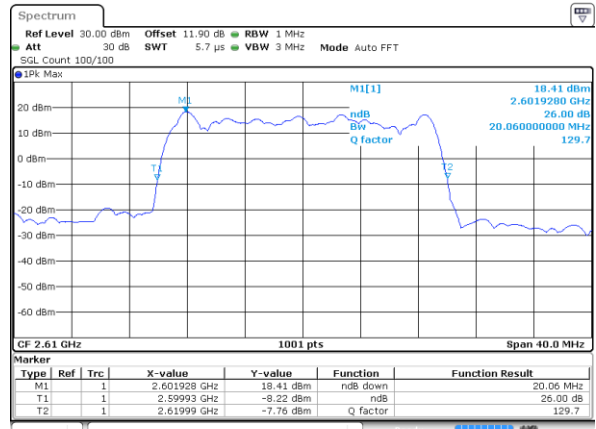
Date: 2 FEB 2018 00:32:52

Highest Channel / 15MHz / 64QAM



Date: 2 FEB 2018 00:32:12

Highest Channel / 20MHz / 64QAM



Date: 2 FEB 2018 00:41:29



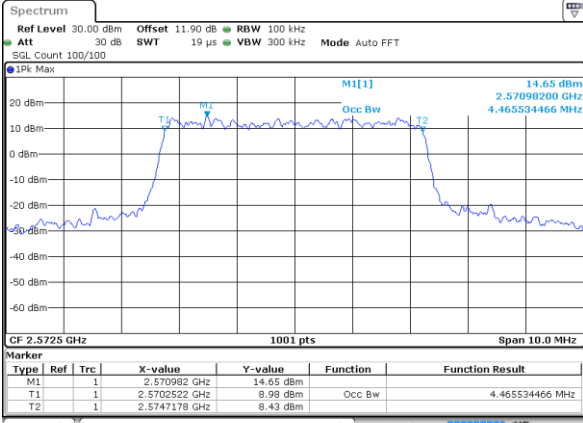
Occupied Bandwidth

| Mode | LTE Band 38 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.47 | 4.47 | 9.07 | 9.05 | 13.49 | 13.46 | 18.42 | 18.26 |
| Middle CH | - | - | - | - | 4.52 | 4.49 | 9.03 | 9.03 | 13.46 | 13.4 | 18.46 | 18.38 |
| Highest CH | - | - | - | - | 4.5 | 4.48 | 9.11 | 8.97 | 13.49 | 13.46 | 18.38 | 18.42 |
| Mode | LTE Band 38 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.50 | - | 8.99 | - | 13.37 | - | 18.38 | - |
| Middle CH | - | - | - | - | 4.51 | - | 9.09 | - | 13.46 | - | 18.34 | - |
| Highest CH | - | - | - | - | 4.48 | - | 8.99 | - | 13.40 | - | 18.42 | - |



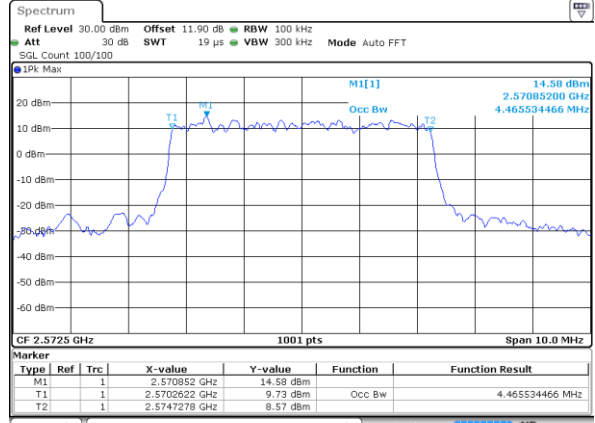
LTE Band 38

Lowest Channel / 5MHz / QPSK



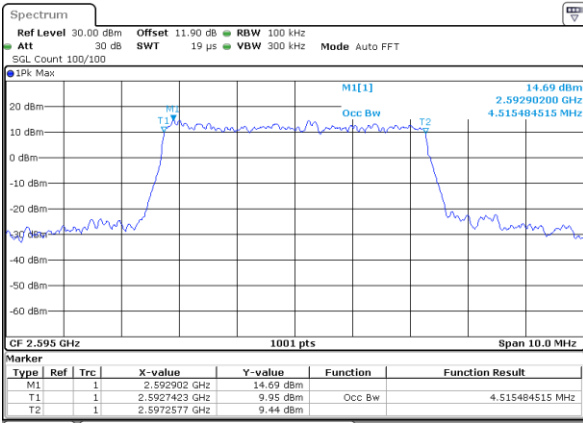
Date: 7 JAN 2018 01:09:41

Lowest Channel / 5MHz / 16QAM



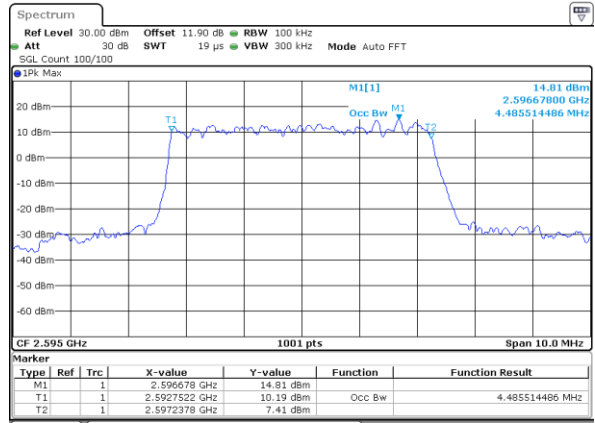
Date: 7 JAN 2018 01:09:52

Middle Channel / 5MHz / QPSK



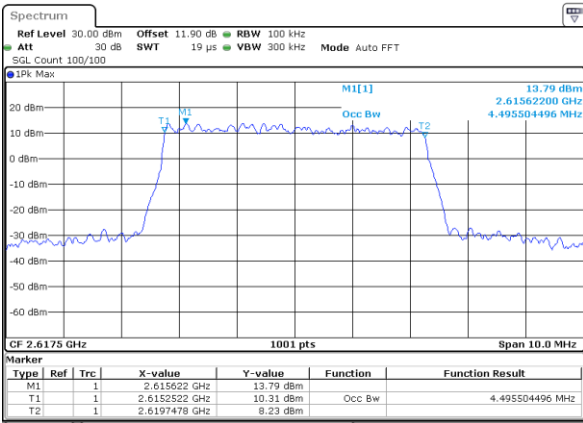
Date: 7 JAN 2018 01:10:22

Middle Channel / 5MHz / 16QAM



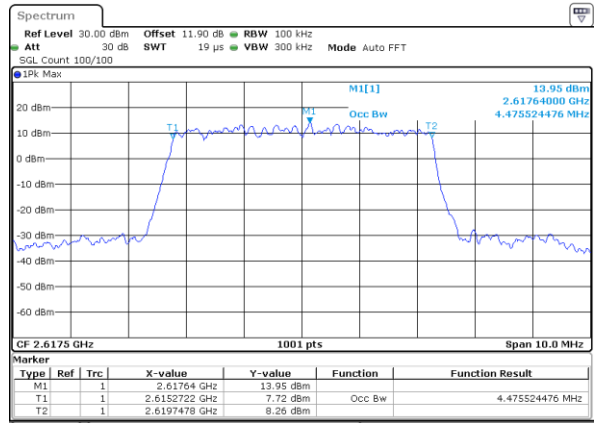
Date: 7 JAN 2018 01:10:32

Highest Channel / 5MHz / QPSK



Date: 7 JAN 2018 01:11:02

Highest Channel / 5MHz / 16QAM

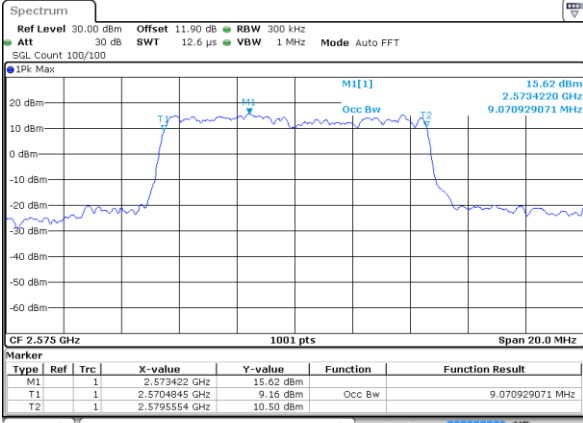


Date: 7 JAN 2018 01:11:12



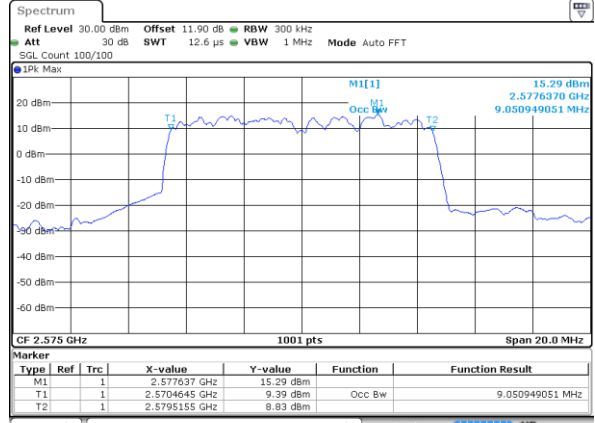
LTE Band 38

Lowest Channel / 10MHz / QPSK



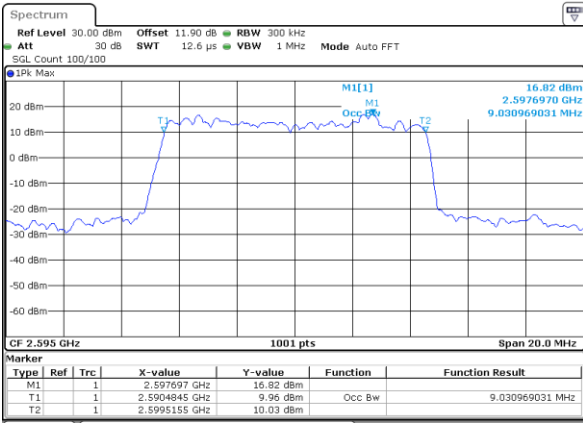
Date: 7 JAN 2018 01:11:42

Lowest Channel / 10MHz / 16QAM



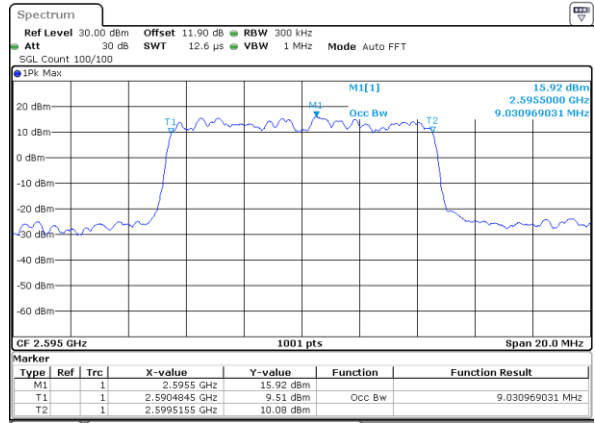
Date: 7 JAN 2018 01:11:52

Middle Channel / 10MHz / QPSK



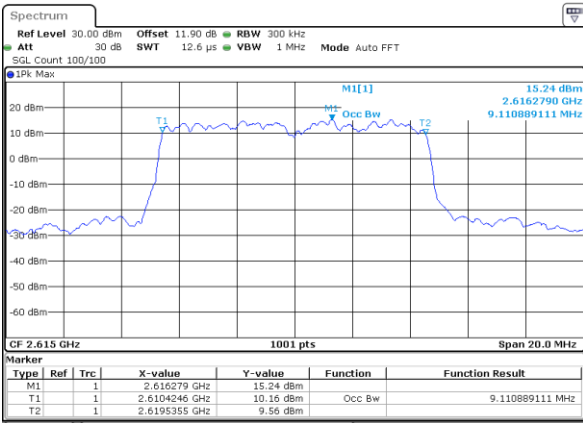
Date: 7 JAN 2018 01:12:22

Middle Channel / 10MHz / 16QAM



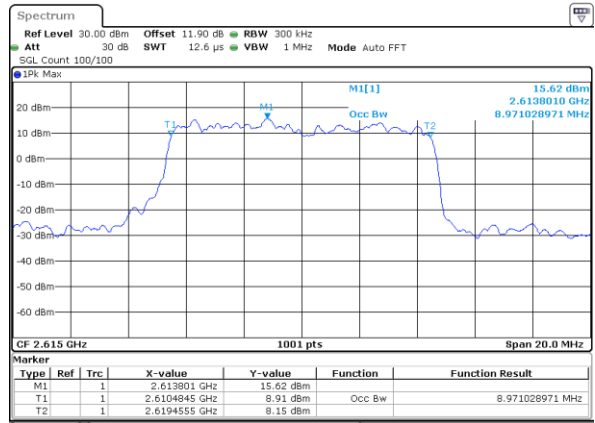
Date: 7 JAN 2018 01:12:32

Highest Channel / 10MHz / QPSK



Date: 7 JAN 2018 01:13:02

Highest Channel / 10MHz / 16QAM

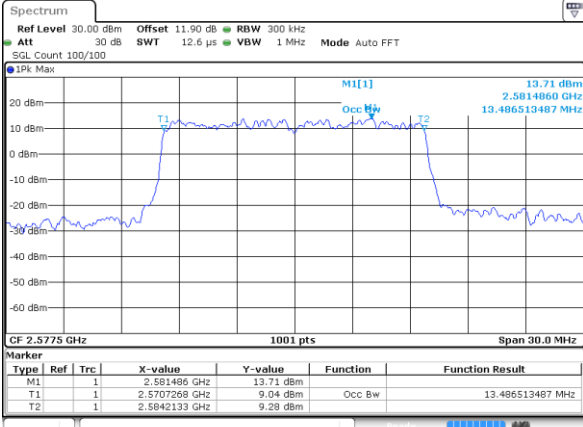


Date: 7 JAN 2018 01:13:12



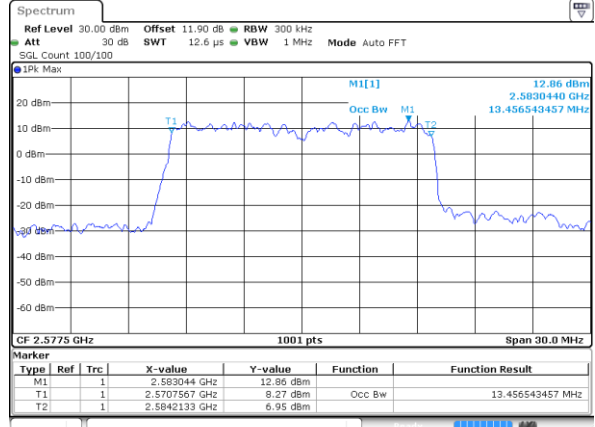
LTE Band 38

Lowest Channel / 15MHz / QPSK



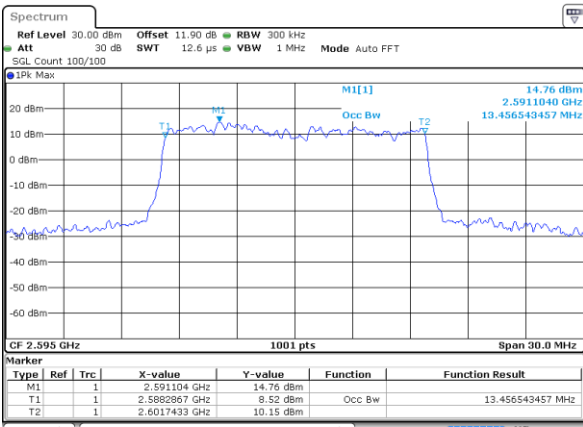
Date: 7 JAN 2018 01:13:42

Lowest Channel / 15MHz / 16QAM



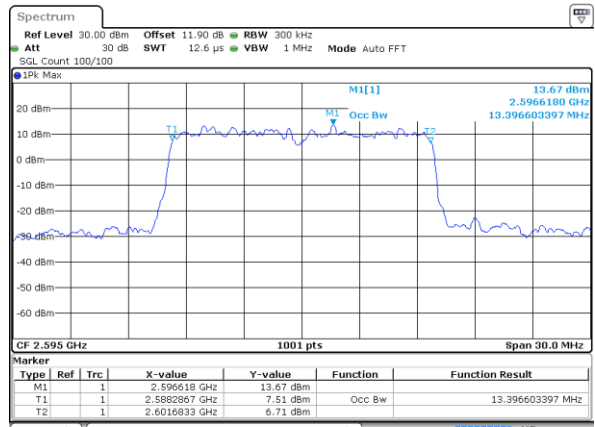
Date: 7 JAN 2018 01:13:52

Middle Channel / 15MHz / QPSK



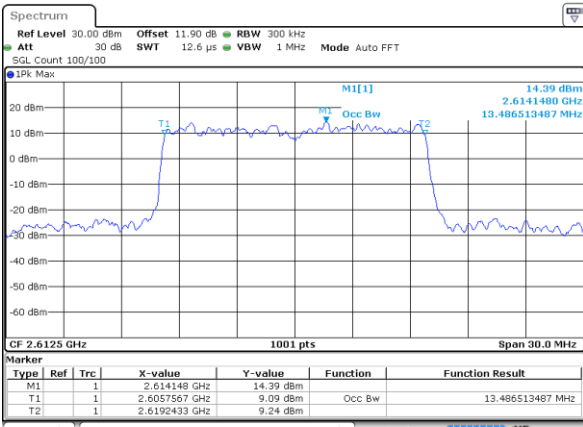
Date: 7 JAN 2018 01:14:22

Middle Channel / 15MHz / 16QAM



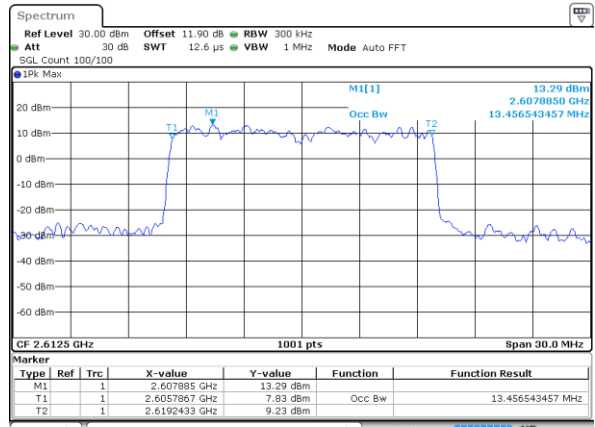
Date: 7 JAN 2018 01:14:32

Highest Channel / 15MHz / QPSK



Date: 7 JAN 2018 01:15:02

Highest Channel / 15MHz / 16QAM

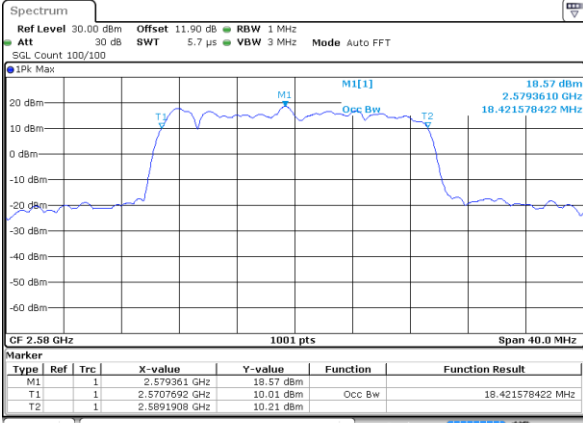


Date: 7 JAN 2018 01:15:12



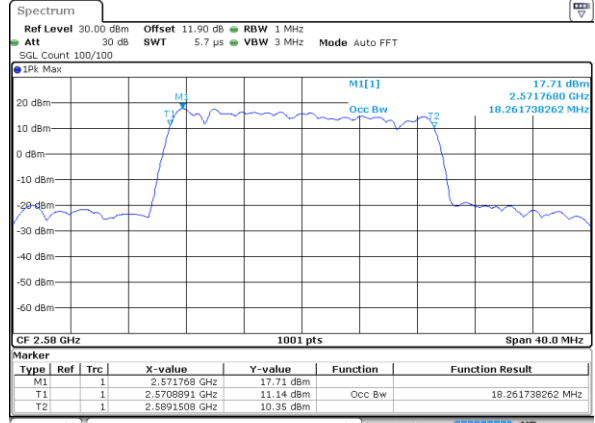
LTE Band 38

Lowest Channel / 20MHz / QPSK



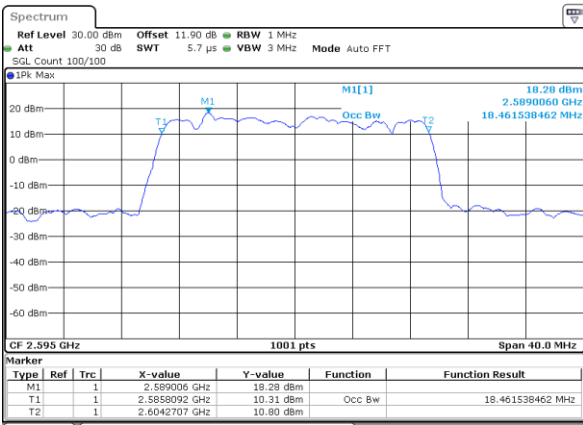
Date: 7 JAN 2018 01:15:42

Lowest Channel / 20MHz / 16QAM



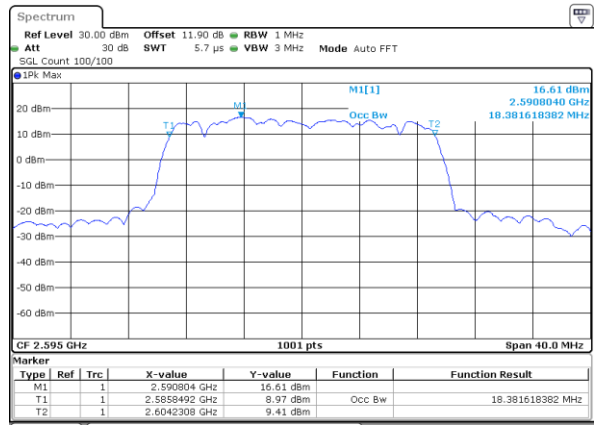
Date: 7 JAN 2018 01:15:52

Middle Channel / 20MHz / QPSK



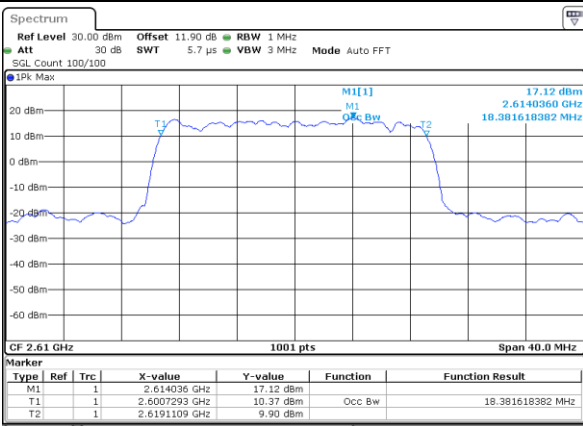
Date: 7 JAN 2018 01:16:22

Middle Channel / 20MHz / 16QAM



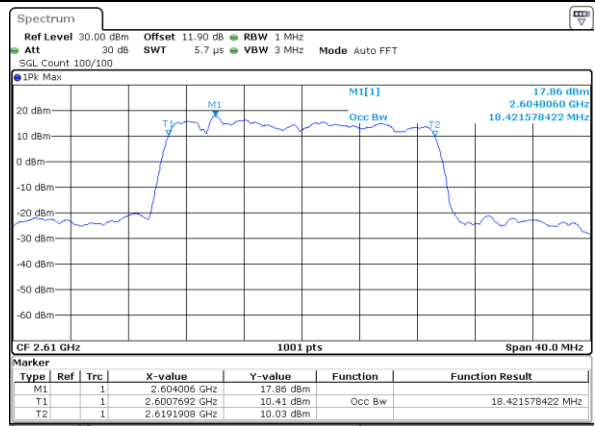
Date: 7 JAN 2018 01:16:32

Highest Channel / 20MHz / QPSK



Date: 7 JAN 2018 01:17:02

Highest Channel / 20MHz / 16QAM

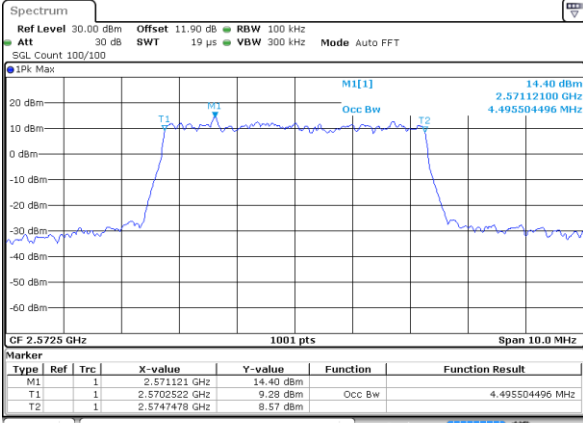


Date: 7 JAN 2018 01:17:13



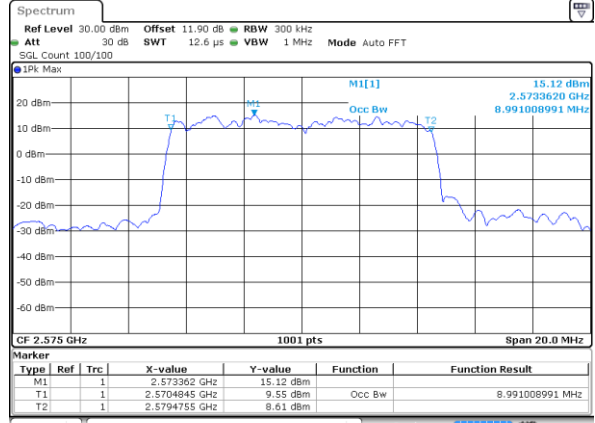
LTE Band 38

Lowest Channel / 5MHz / 64QAM



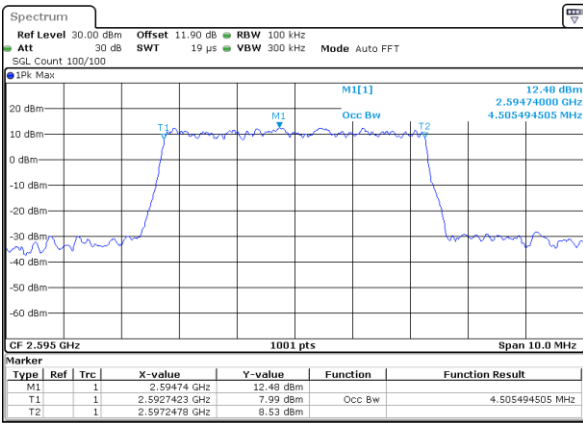
Date: 2 FEB 2018 00:29:22

Lowest Channel / 10MHz / 64QAM



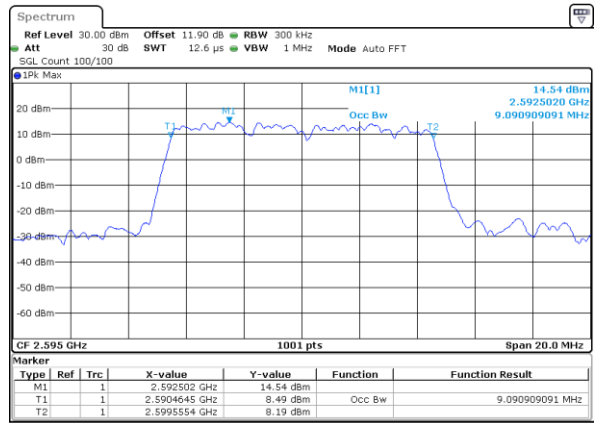
Date: 2 FEB 2018 00:30:22

Middle Channel / 5MHz / 64QAM



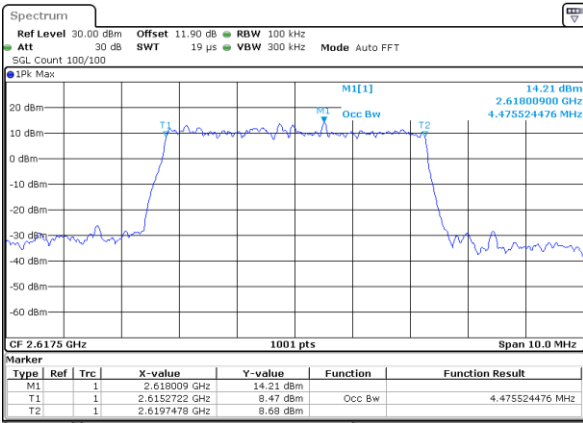
Date: 2 FEB 2018 00:29:42

Middle Channel / 10MHz / 64QAM



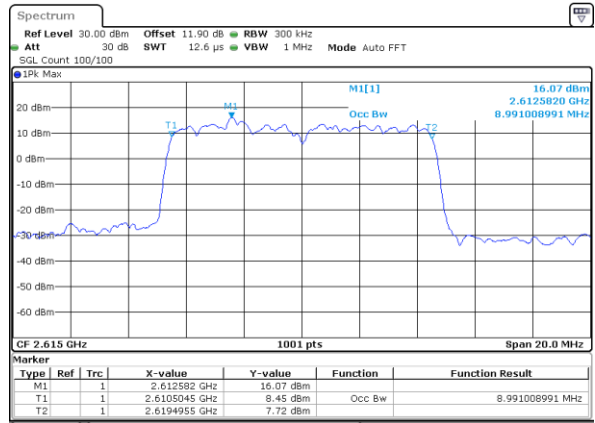
Date: 2 FEB 2018 00:30:42

Highest Channel / 5MHz / 64QAM



Date: 2 FEB 2018 00:30:02

Highest Channel / 10MHz / 64QAM

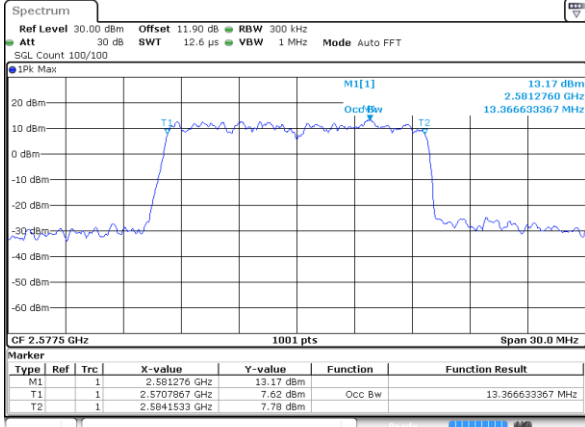


Date: 2 FEB 2018 00:31:02



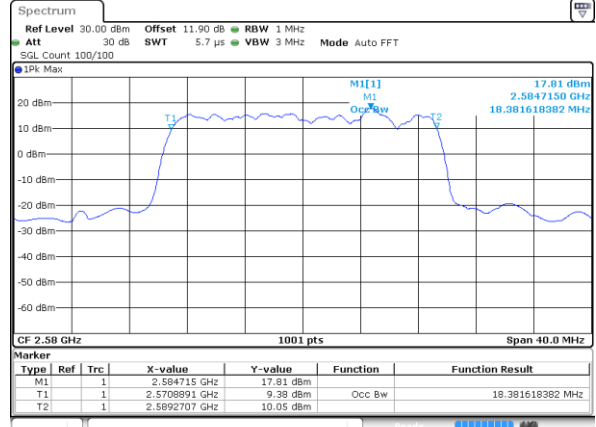
LTE Band 38

Lowest Channel / 15MHz / 64QAM



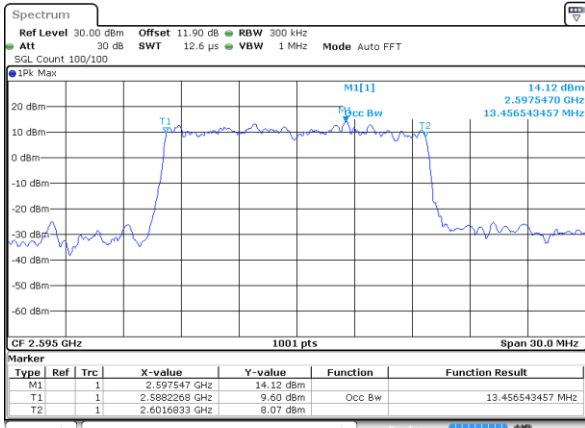
Date: 2 FEB 2018 00:31:22

Lowest Channel / 20MHz / 64QAM



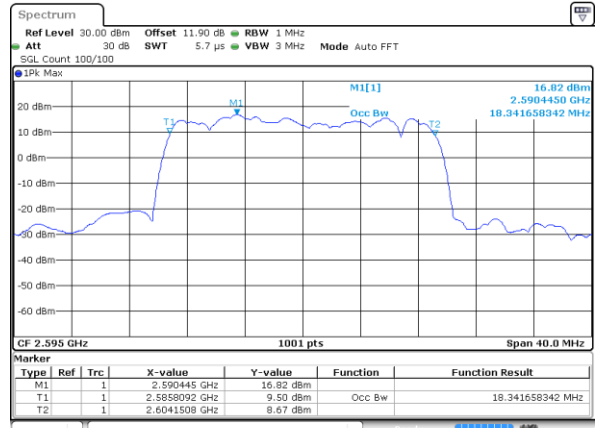
Date: 2 FEB 2018 00:32:22

Middle Channel / 15MHz / 64QAM



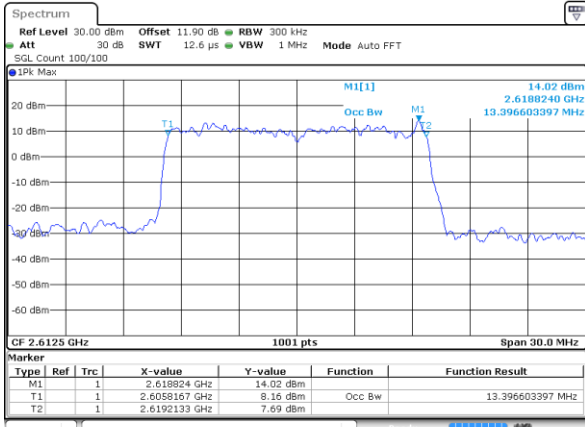
Date: 2 FEB 2018 00:31:42

Middle Channel / 20MHz / 64QAM



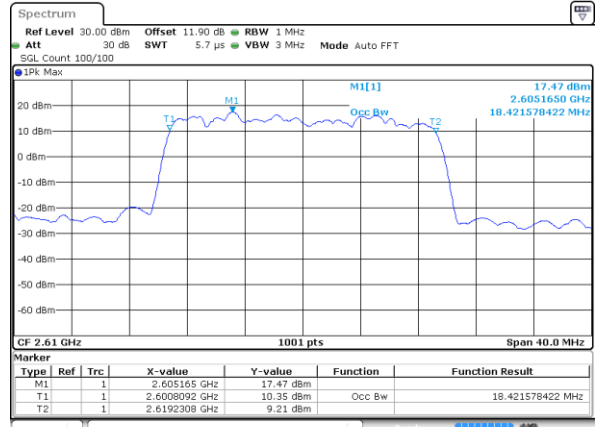
Date: 2 FEB 2018 00:32:42

Highest Channel / 15MHz / 64QAM



Date: 2 FEB 2018 00:32:02

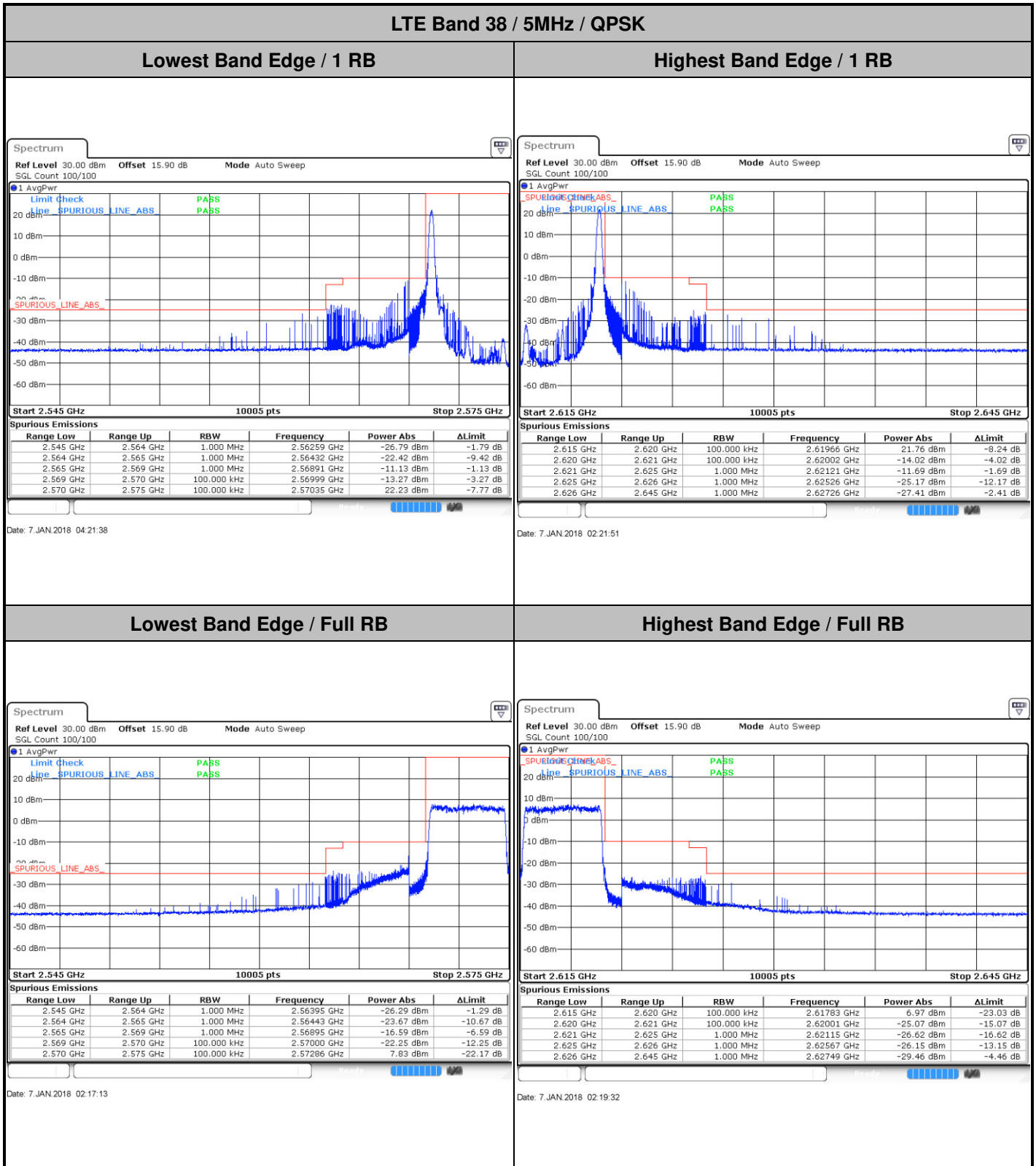
Highest Channel / 20MHz / 64QAM



Date: 2 FEB 2018 00:33:02



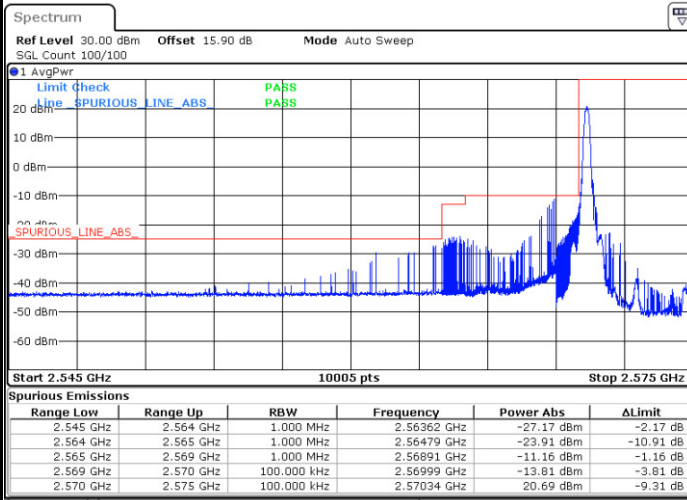
Conducted Band Edge





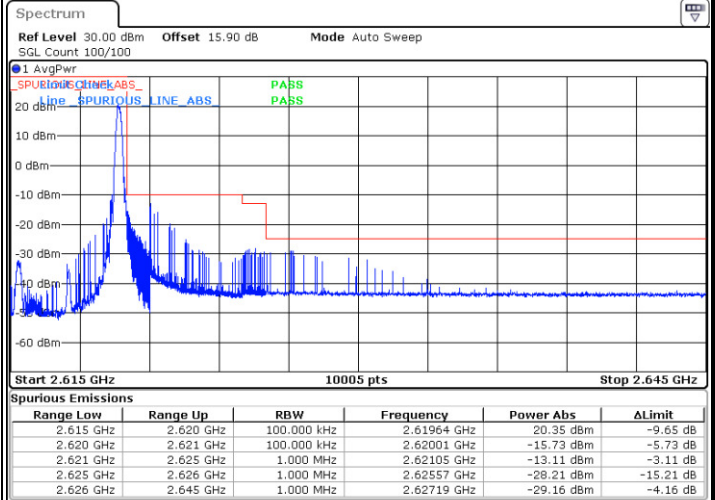
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



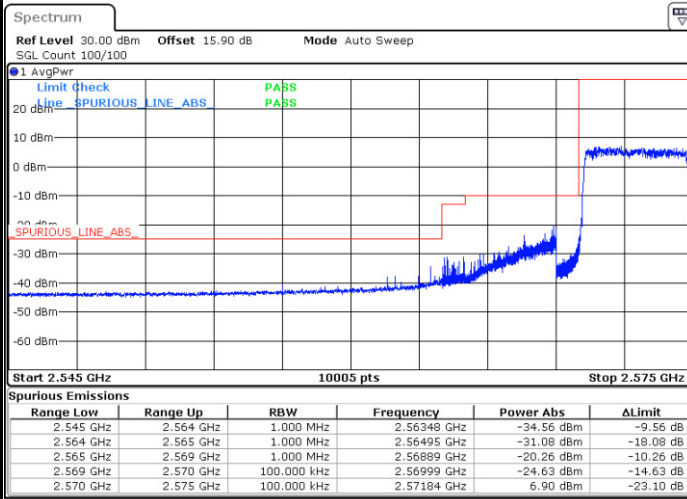
Date: 7.JAN.2018 02:16:04

Highest Band Edge / 1 RB



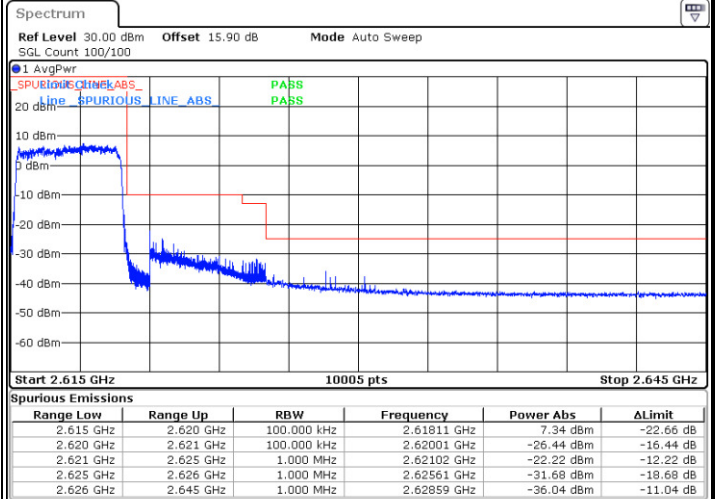
Date: 7.JAN.2018 02:23:00

Lowest Band Edge / Full RB



Date: 7.JAN.2018 02:18:23

Highest Band Edge / Full RB



Date: 7.JAN.2018 02:20:42