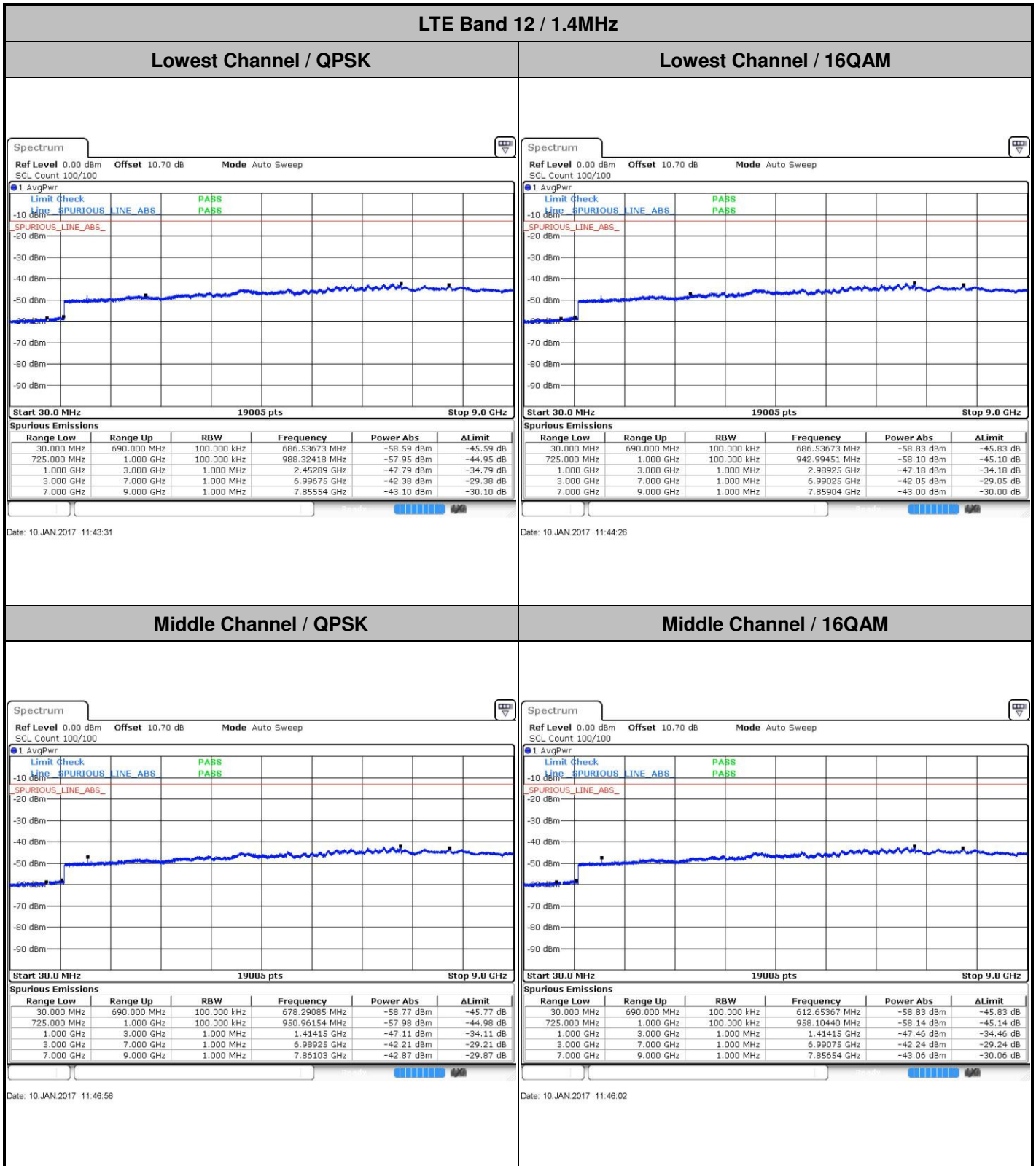




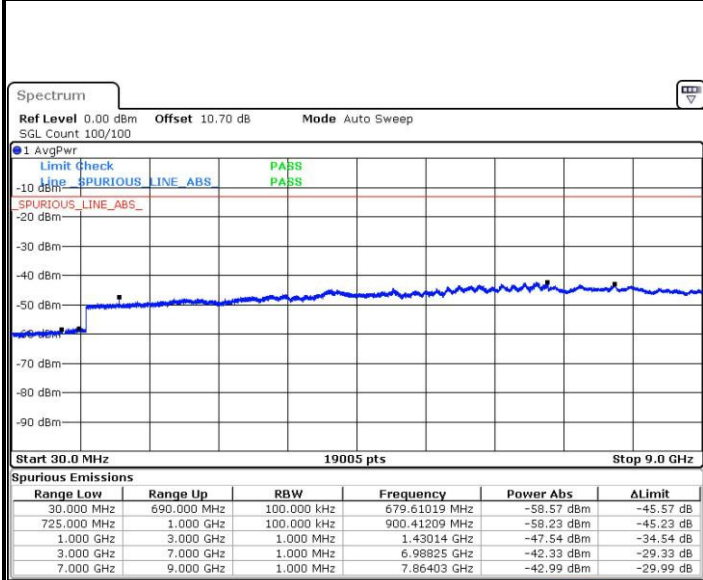
Conducted Spurious Emission





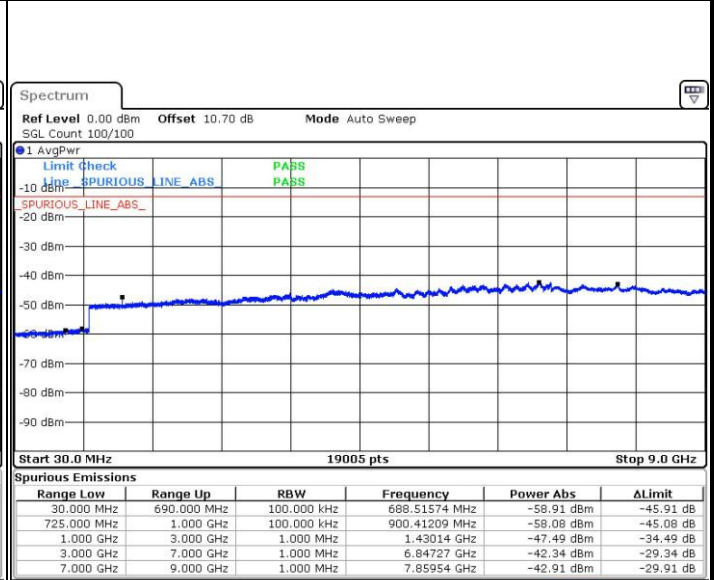
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 10 JAN 2017 11:53:09

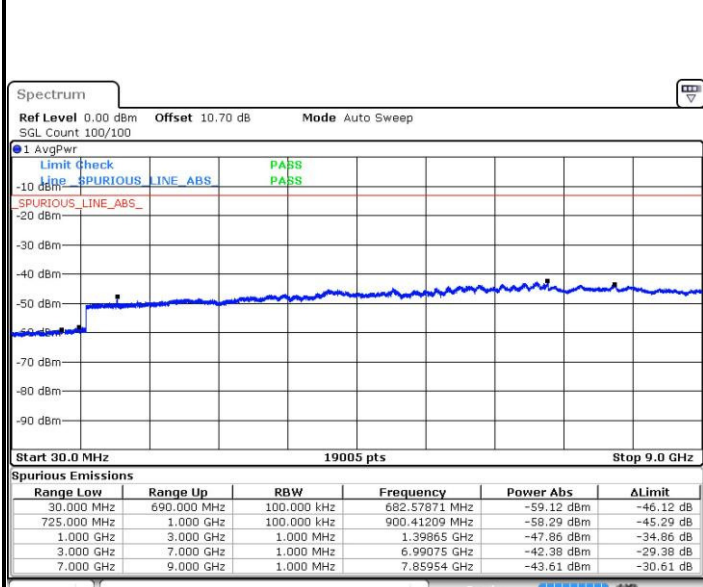
Highest Channel / 16QAM



Date: 10 JAN 2017 11:54:03

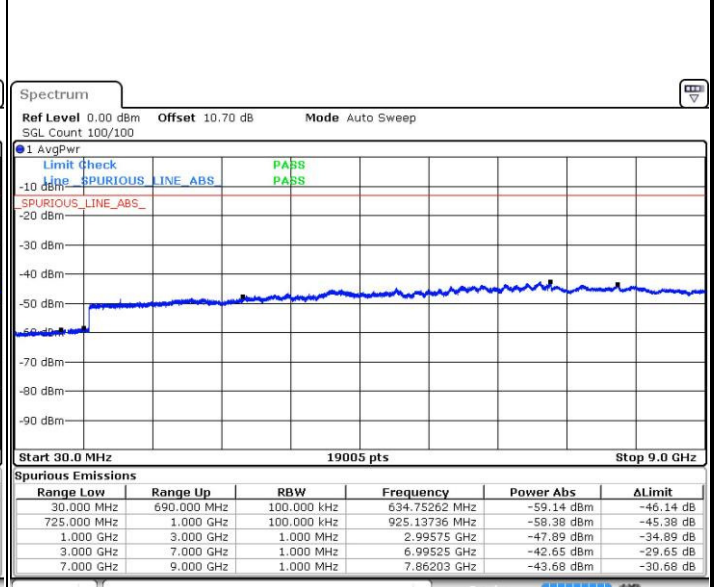
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 9 JAN 2017 09:44:38

Lowest Channel / 16QAM



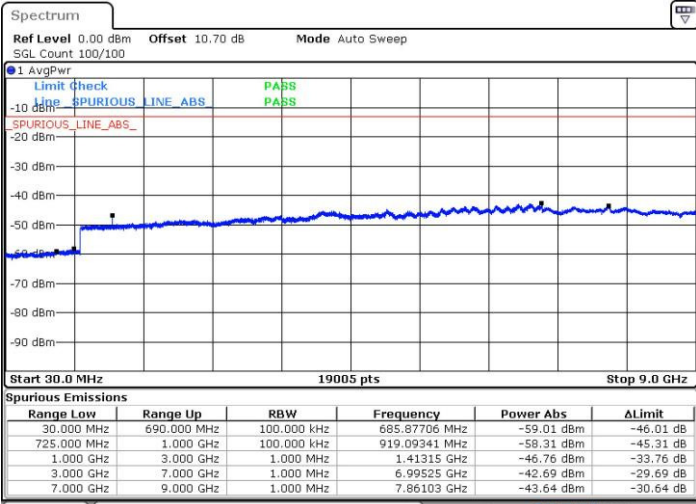
Date: 9 JAN 2017 09:45:32



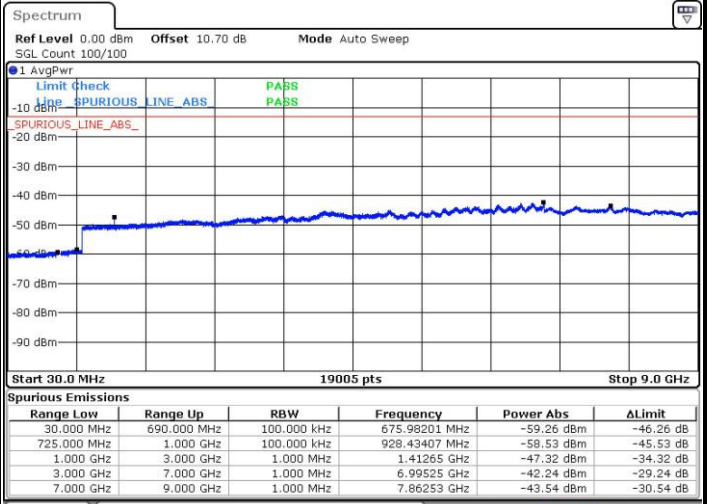
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



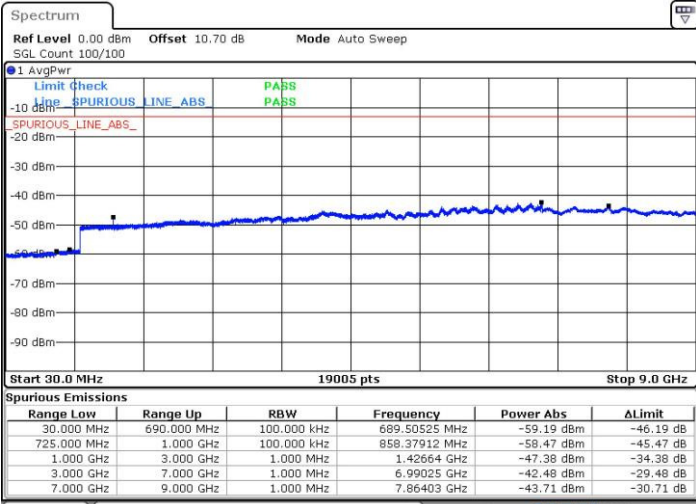
Date: 9 JAN 2017 09:48:02



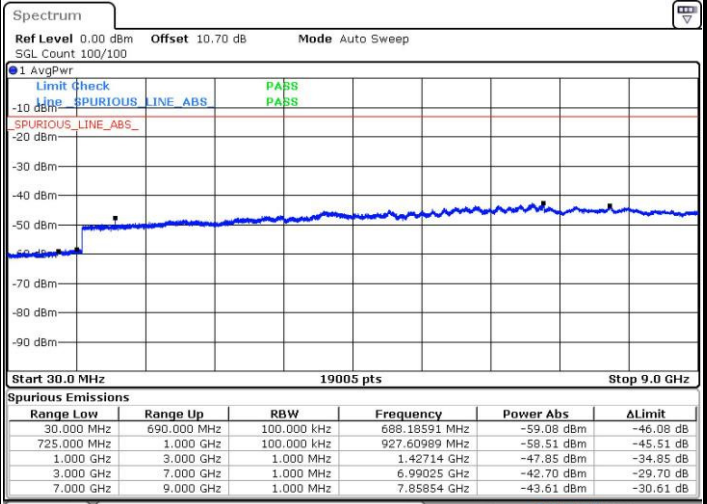
Date: 9 JAN 2017 09:47:08

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 9 JAN 2017 09:54:14



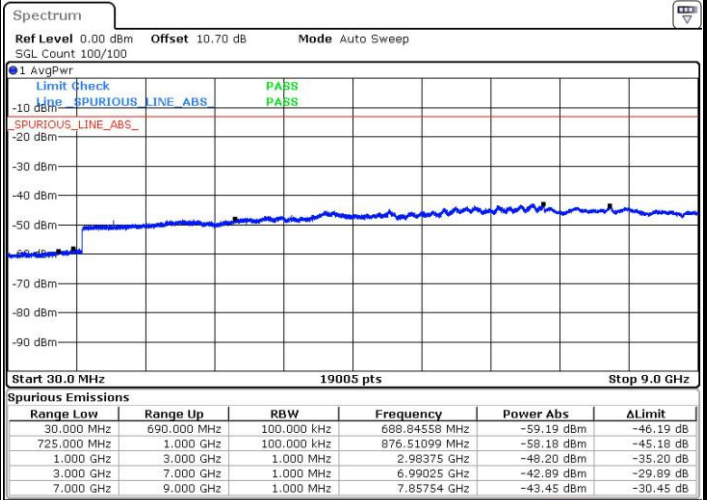
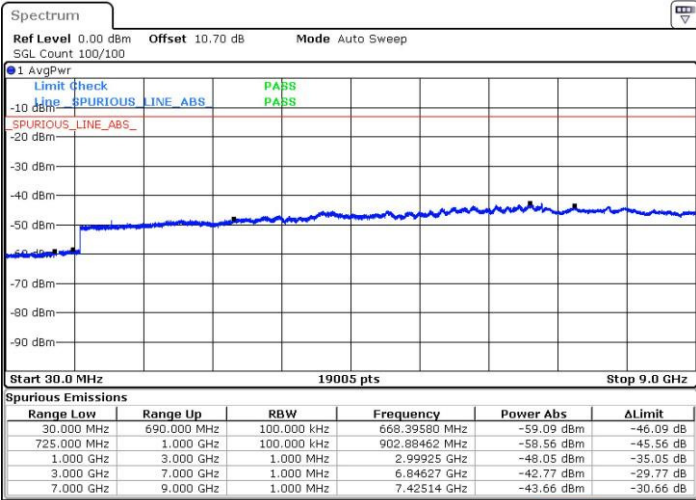
Date: 9 JAN 2017 09:55:08



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

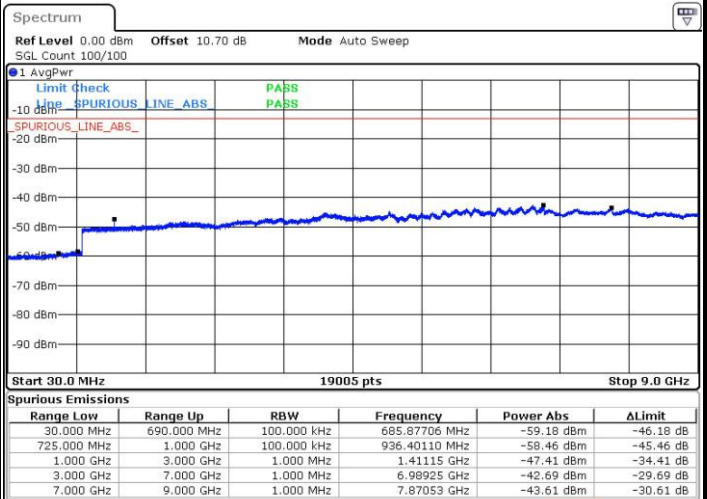
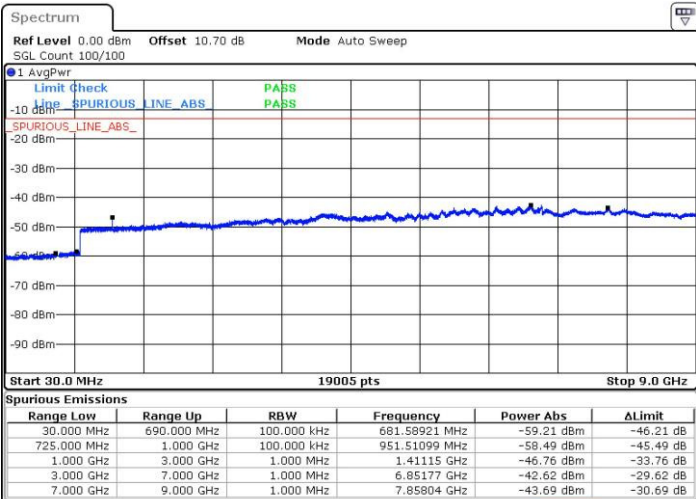


Date: 9 JAN 2017 10:50:34

Date: 9 JAN 2017 10:51:29

Middle Channel / QPSK

Middle Channel / 16QAM



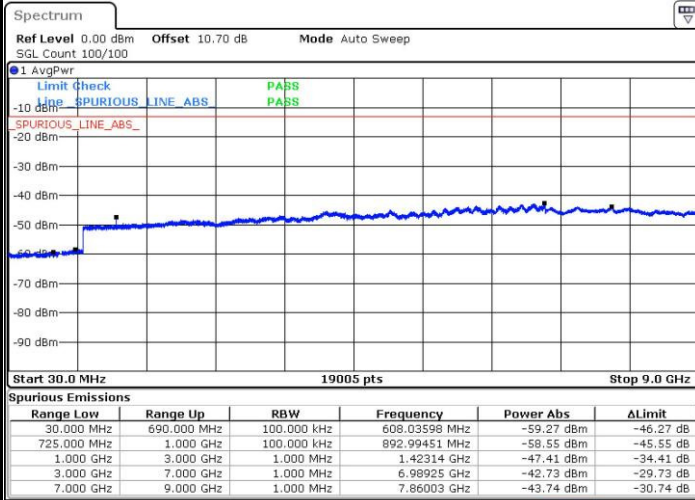
Date: 9 JAN 2017 10:53:59

Date: 9 JAN 2017 10:53:04



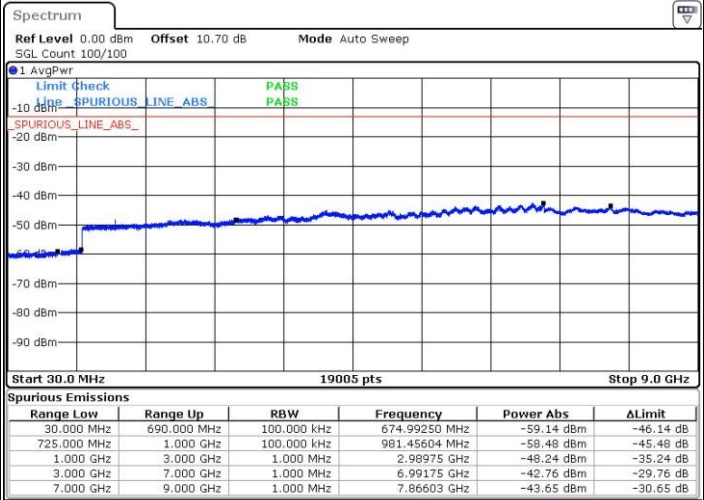
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 9 JAN 2017 11:01:06

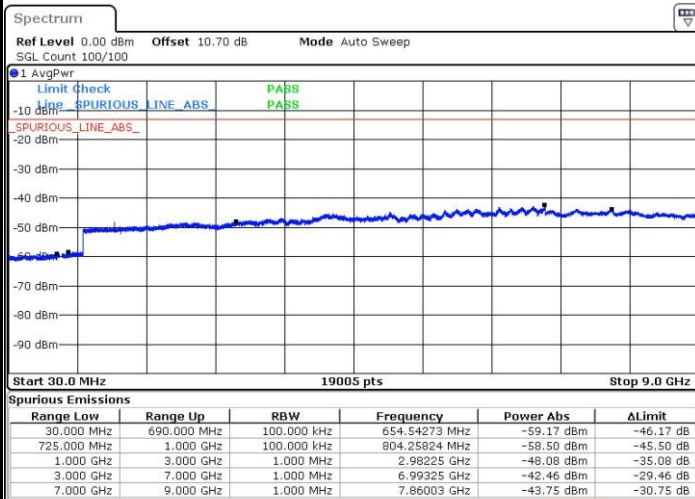
Highest Channel / 16QAM



Date: 9 JAN 2017 11:00:11

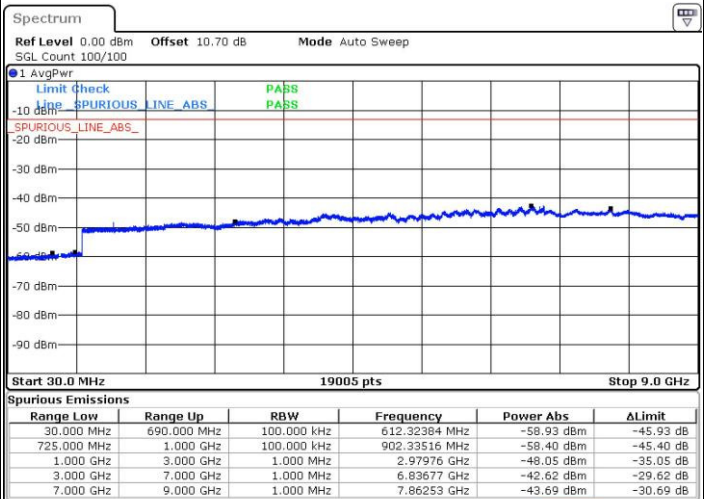
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 9 JAN 2017 11:07:18

Lowest Channel / 16QAM

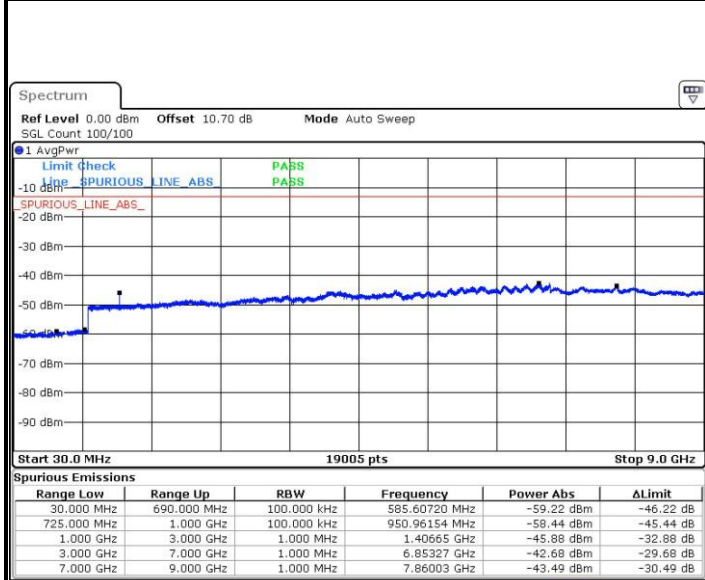


Date: 9 JAN 2017 11:08:12



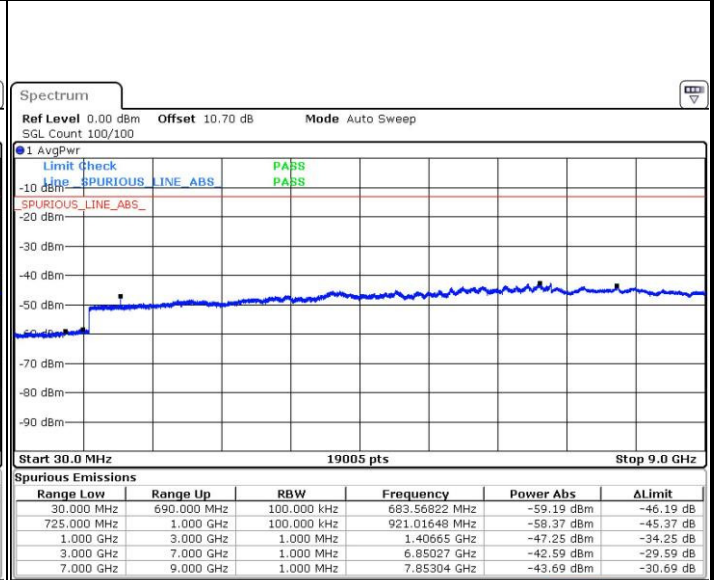
LTE Band 12 / 10MHz

Middle Channel / QPSK



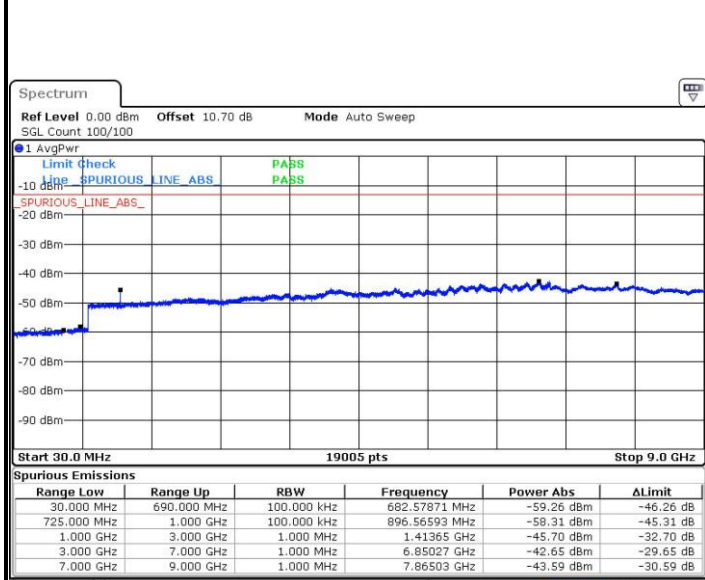
Date: 9 JAN 2017 11:10:42

Middle Channel / 16QAM



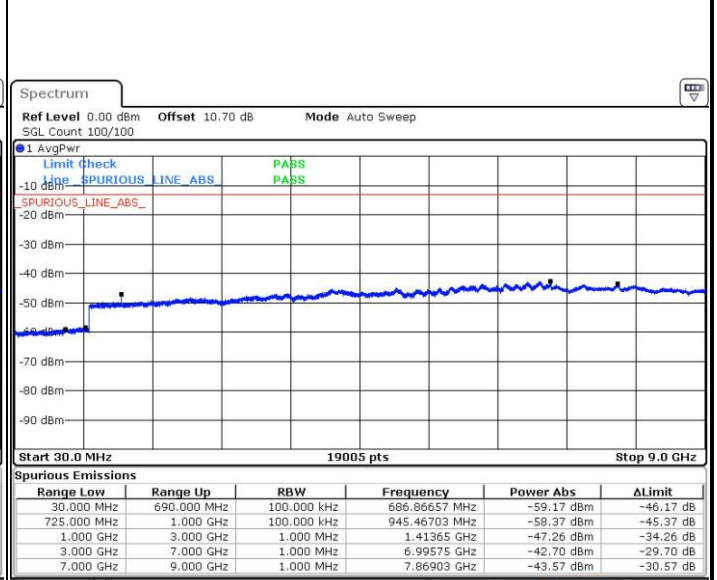
Date: 9 JAN 2017 11:09:48

Highest Channel / QPSK



Date: 9 JAN 2017 11:41:45

Highest Channel / 16QAM



Date: 9 JAN 2017 11:42:39



Frequency Stability

| Test Conditions | | LTE Band 12 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0007 | PASS |
| 40 | Normal Voltage | 0.0013 | |
| 30 | Normal Voltage | 0.0010 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0001 | |
| 0 | Normal Voltage | 0.0013 | |
| -10 | Normal Voltage | 0.0031 | |
| -20 | Normal Voltage | 0.0049 | |
| -30 | Normal Voltage | 0.0017 | |
| 20 | Maximum Voltage | 0.0049 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0025 | |

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

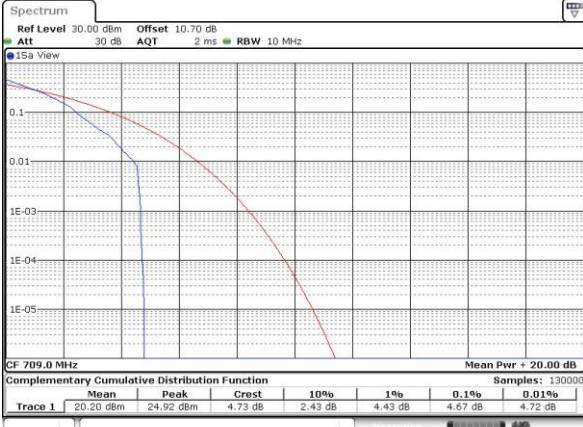
Peak-to-Average Ratio

| Mode | LTE Band 17 / 10MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.67 | 4.99 | 5.45 | 5.94 | PASS |
| Middle CH | 4.64 | 5.01 | 5.42 | 5.86 | |
| Highest CH | 4.67 | 5.01 | 5.48 | 5.86 | |



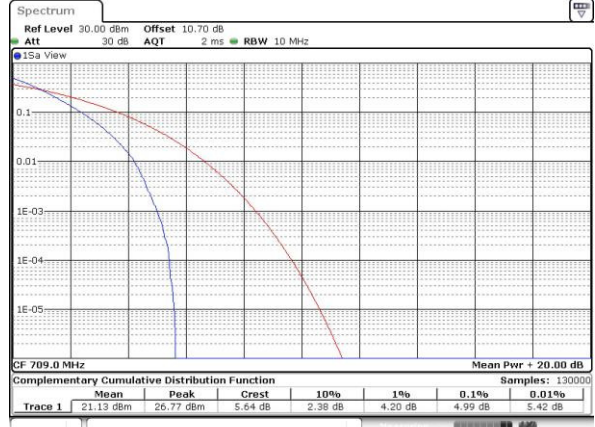
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



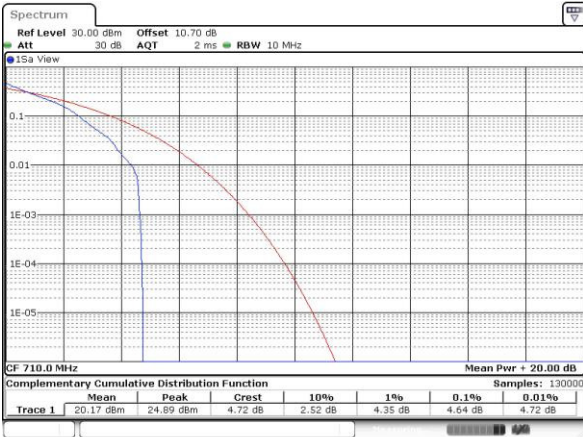
Date: 11 JAN 2017 10:51:58

Lowest Channel / Full RB



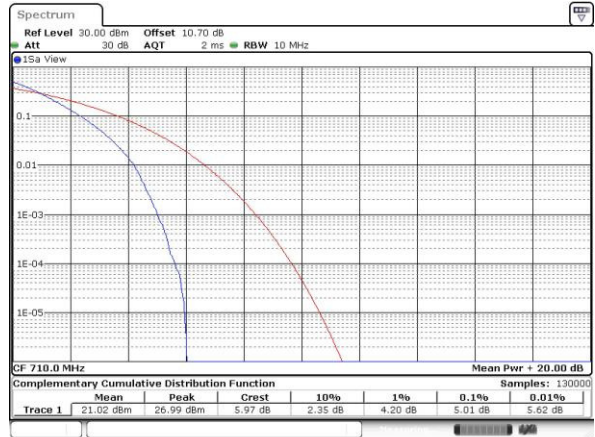
Date: 11 JAN 2017 10:52:10

Middle Channel / 1RB



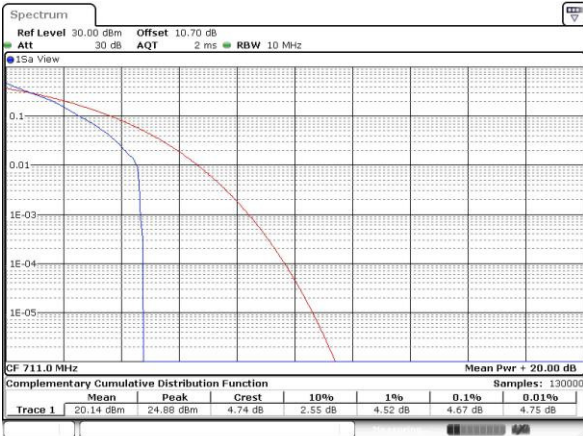
Date: 11 JAN 2017 10:52:25

Middle Channel / Full RB



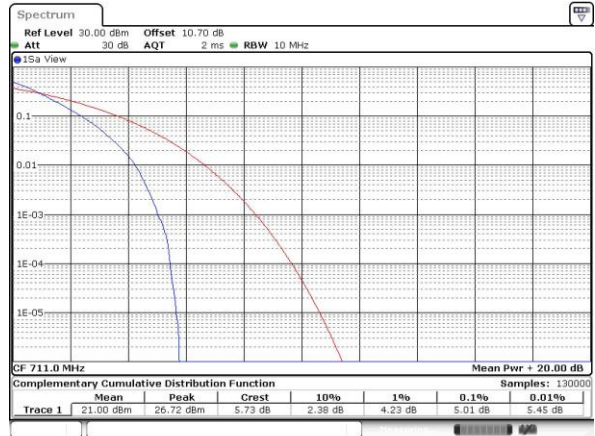
Date: 11 JAN 2017 10:52:34

Highest Channel / 1RB



Date: 11 JAN 2017 10:52:43

Highest Channel / Full RB



Date: 11 JAN 2017 10:52:52



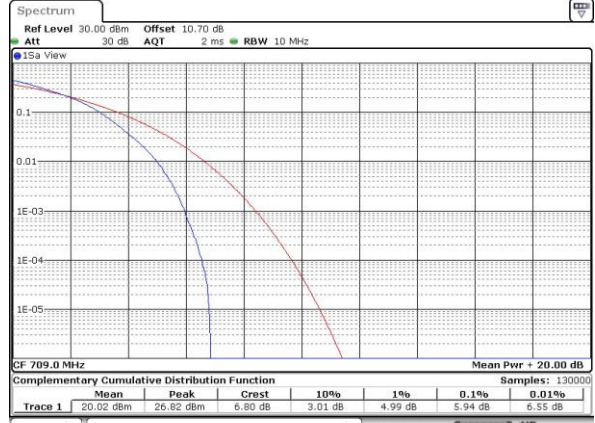
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 11 JAN 2017 10:50:53

Lowest Channel / Full RB



Date: 11 JAN 2017 10:51:03

Middle Channel / 1RB



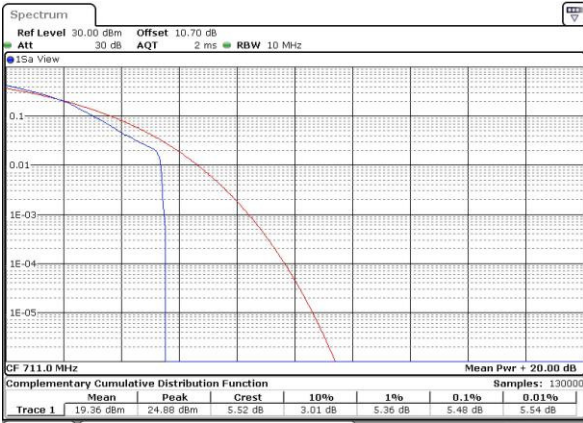
Date: 11 JAN 2017 10:51:14

Middle Channel / Full RB



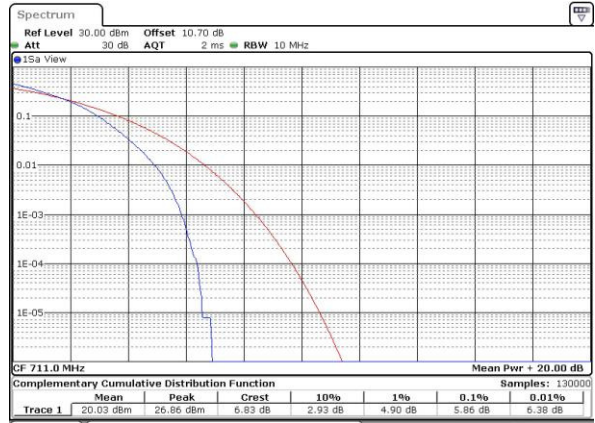
Date: 11 JAN 2017 10:51:28

Highest Channel / 1RB



Date: 11 JAN 2017 10:51:39

Highest Channel / Full RB



Date: 11 JAN 2017 10:51:48



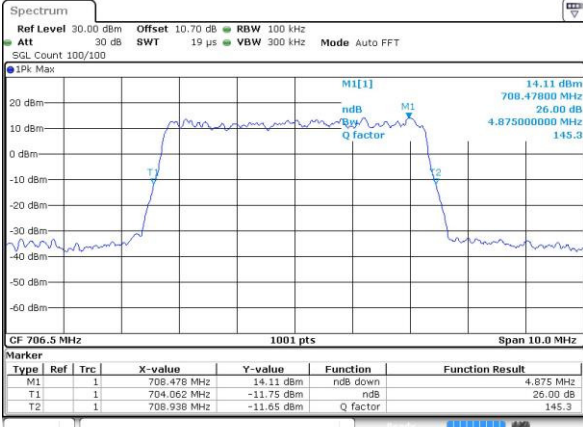
26dB Bandwidth

| Mode | LTE Band 17 : 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 | - | - | - | - | 4.875 | 4.925 | 9.71 | 9.83 | - | - | - | - |
| Middle CH | - | - | - | - | 4.875 | 4.865 | 9.73 | 9.69 | - | - | - | - |
| Highest CH | - | - | - | - | 4.995 | 4.885 | 9.75 | 9.87 | - | - | - | - |



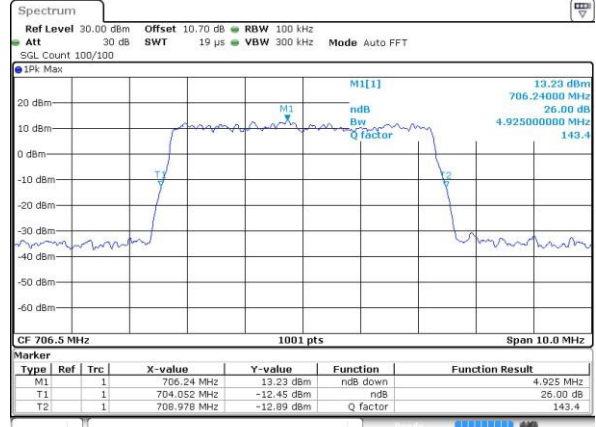
LTE Band 17

Lowest Channel / 5MHz / QPSK



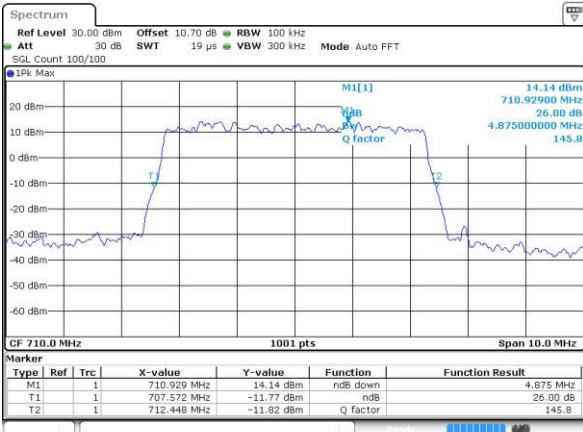
Date: 9 JAN 2017 11:43:10

Lowest Channel / 5MHz / 16QAM



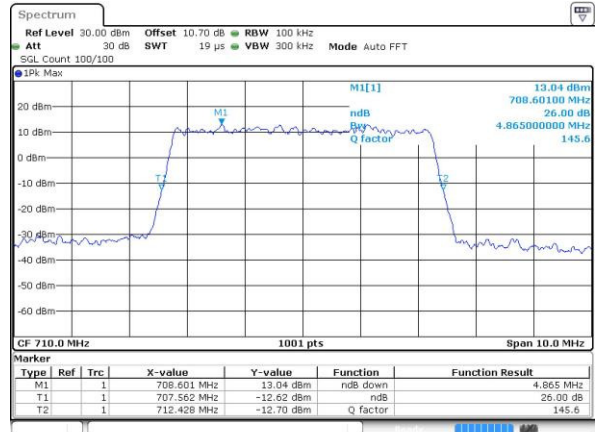
Date: 9 JAN 2017 11:43:21

Middle Channel / 5MHz / QPSK



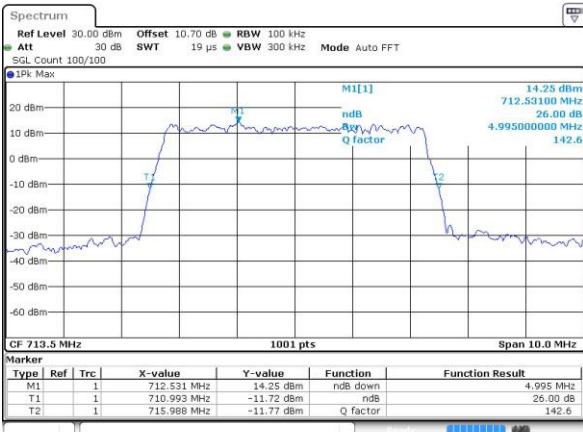
Date: 9 JAN 2017 11:50:17

Middle Channel / 5MHz / 16QAM



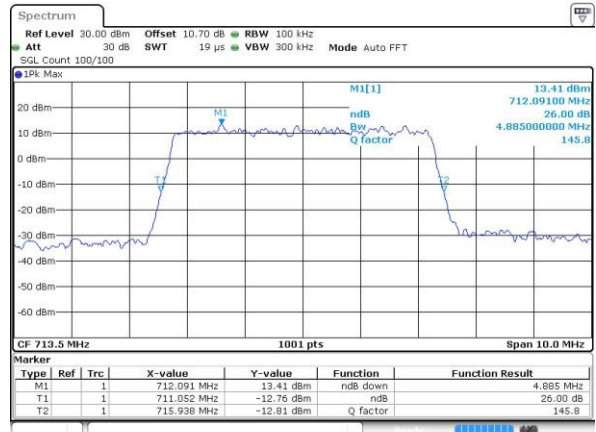
Date: 9 JAN 2017 11:50:27

Highest Channel / 5MHz / QPSK



Date: 9 JAN 2017 11:52:47

Highest Channel / 5MHz / 16QAM

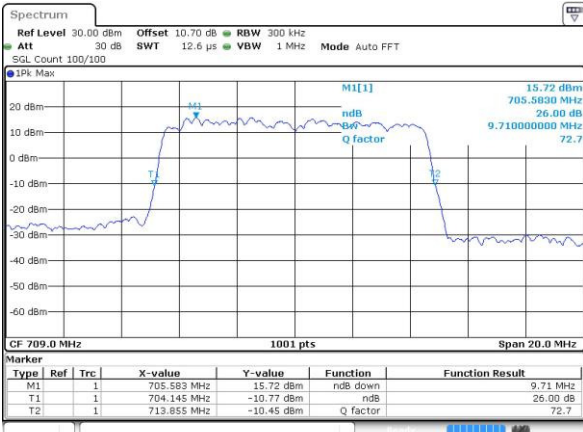


Date: 9 JAN 2017 11:52:57



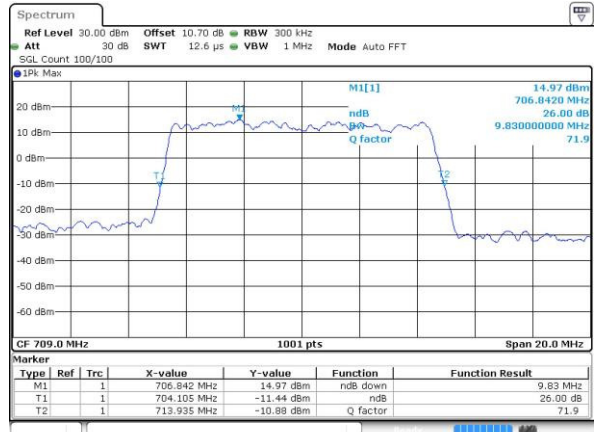
LTE Band 17

Lowest Channel / 10MHz / QPSK



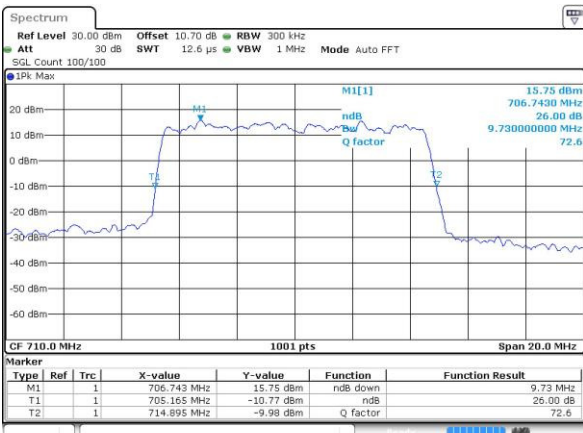
Date: 9 JAN 2017 11:59:53

Lowest Channel / 10MHz / 16QAM



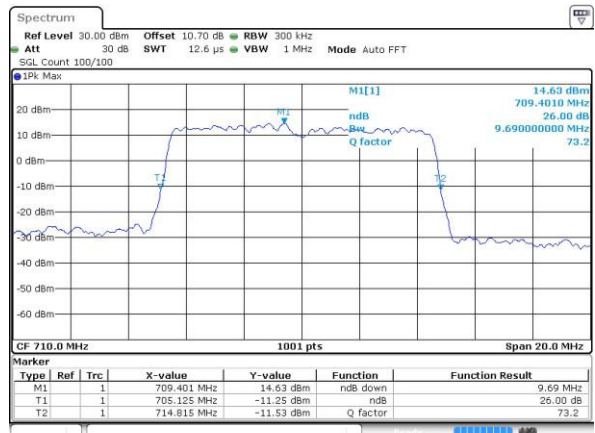
Date: 9 JAN 2017 12:00:03

Middle Channel / 10MHz / QPSK



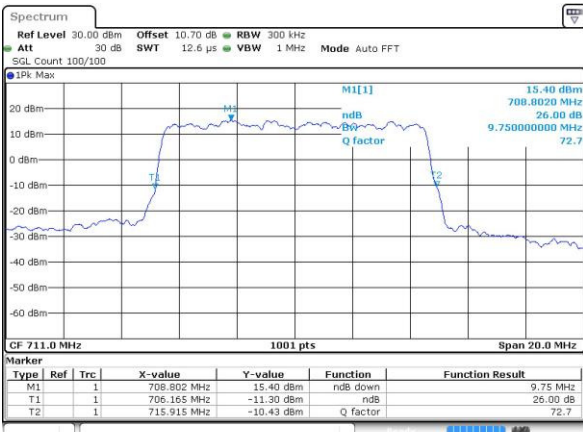
Date: 9 JAN 2017 12:06:59

Middle Channel / 10MHz / 16QAM



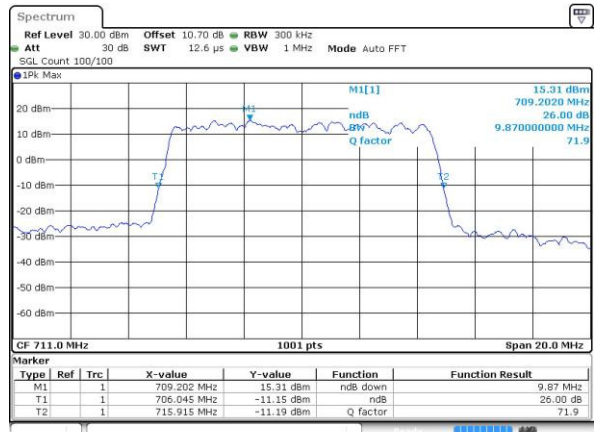
Date: 9 JAN 2017 12:07:10

Highest Channel / 10MHz / QPSK



Date: 10 JAN 2017 10:55:49

Highest Channel / 10MHz / 16QAM



Date: 10 JAN 2017 10:56:00



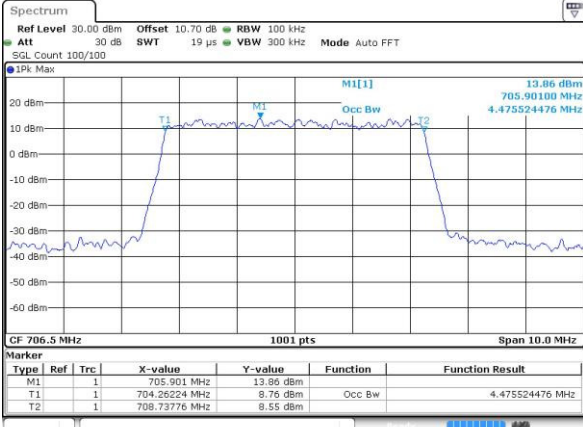
Occupied Bandwidth

| Mode | LTE Band 17 : 99%OBW(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 | - | - | - | - | 4.48 | 4.48 | 9.05 | 9.01 | - | - | - | - |
| Middle CH | - | - | - | - | 4.49 | 4.5 | 8.99 | 9.03 | - | - | - | - |
| Highest CH | - | - | - | - | 4.48 | 4.5 | 8.99 | 9.01 | - | - | - | - |



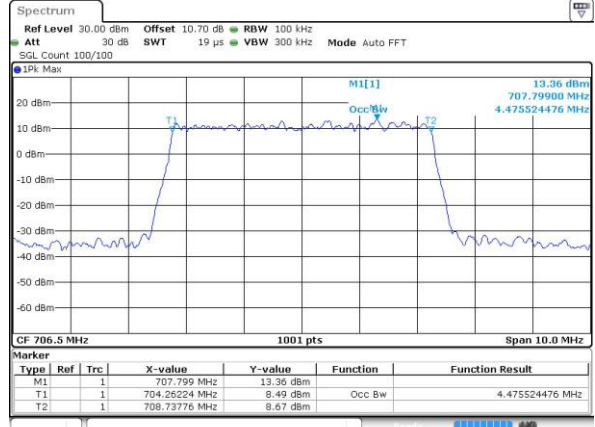
LTE Band 17

Lowest Channel / 5MHz / QPSK



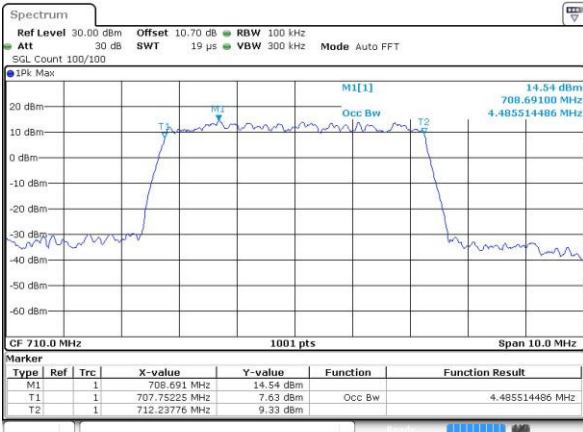
Date: 9 JAN 2017 11:42:50

Lowest Channel / 5MHz / 16QAM



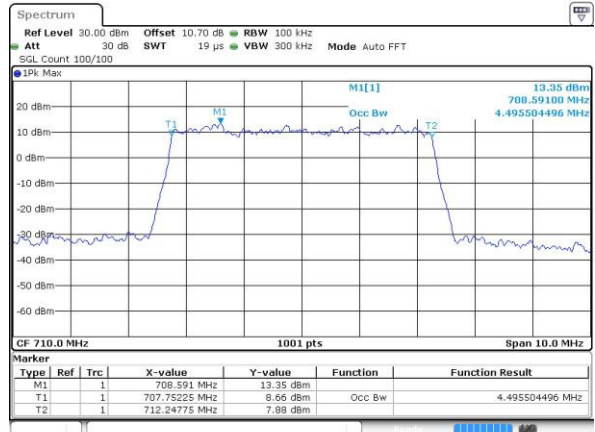
Date: 9 JAN 2017 11:43:00

Middle Channel / 5MHz / QPSK



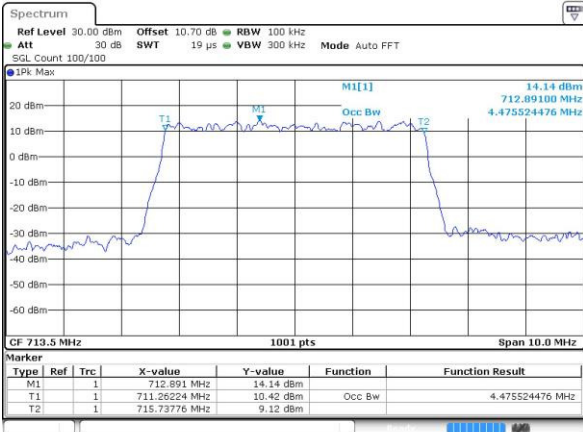
Date: 9 JAN 2017 11:48:56

Middle Channel / 5MHz / 16QAM



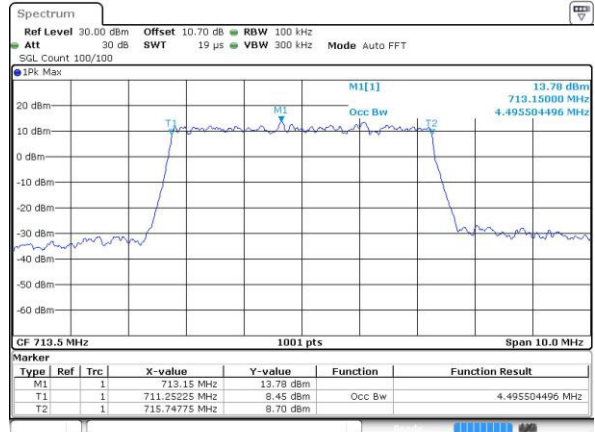
Date: 9 JAN 2017 11:50:07

Highest Channel / 5MHz / QPSK



Date: 9 JAN 2017 11:52:26

Highest Channel / 5MHz / 16QAM

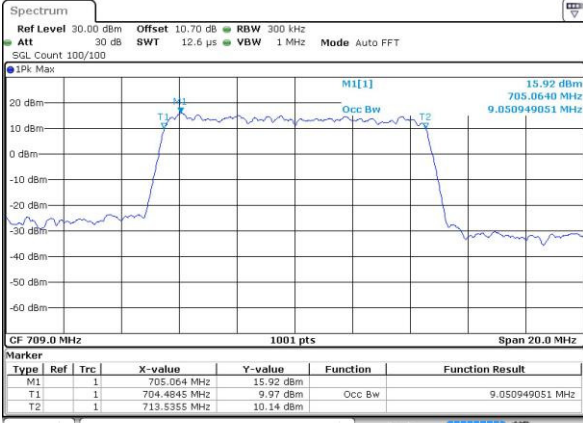


Date: 9 JAN 2017 11:52:36



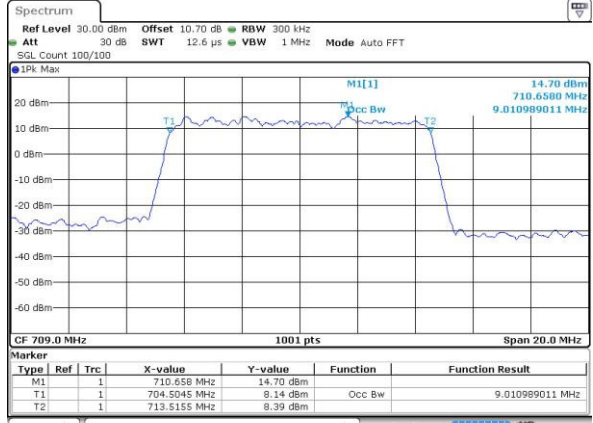
LTE Band 17

Lowest Channel / 10MHz / QPSK



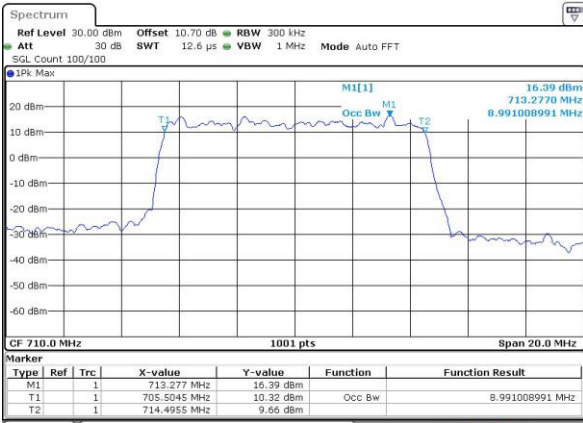
Date: 9 JAN 2017 11:59:32

Lowest Channel / 10MHz / 16QAM



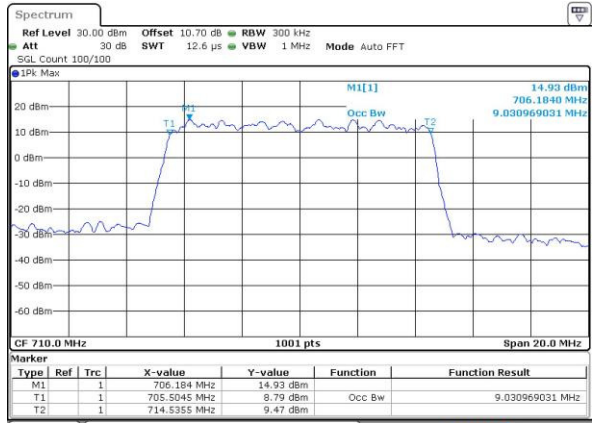
Date: 9 JAN 2017 11:59:43

Middle Channel / 10MHz / QPSK



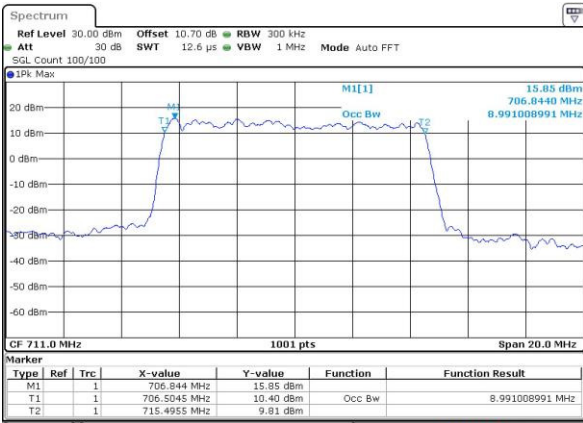
Date: 9 JAN 2017 12:06:39

Middle Channel / 10MHz / 16QAM



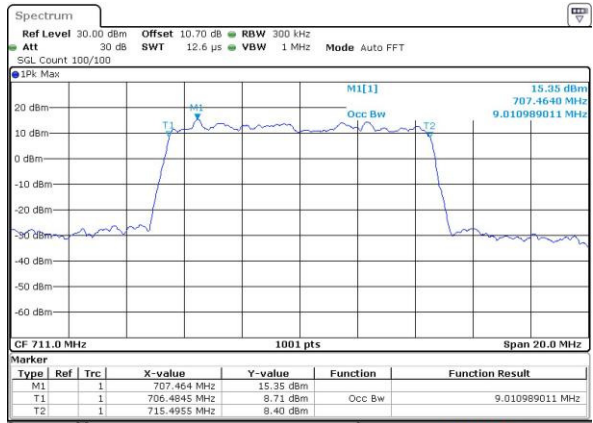
Date: 9 JAN 2017 12:06:49

Highest Channel / 10MHz / QPSK



Date: 9 JAN 2017 12:09:08

Highest Channel / 10MHz / 16QAM



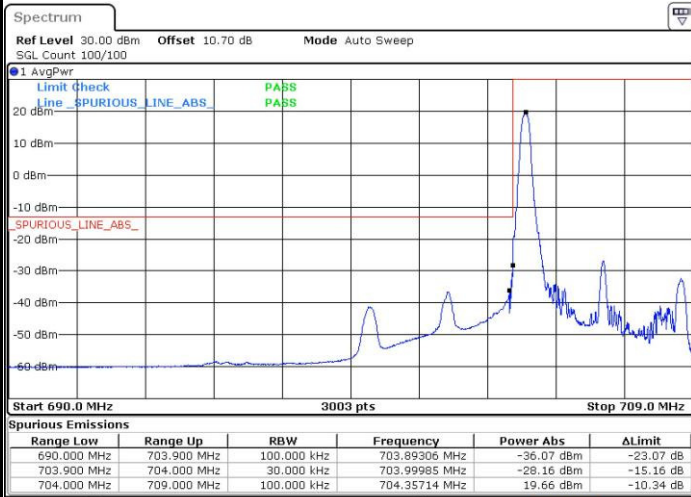
Date: 9 JAN 2017 12:09:19



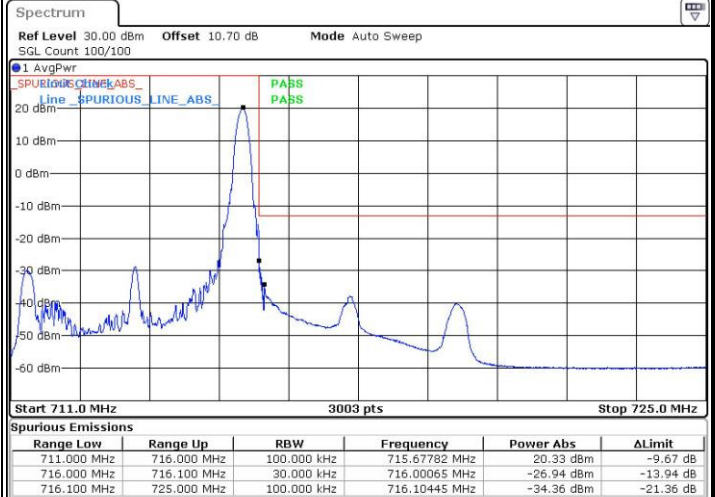
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

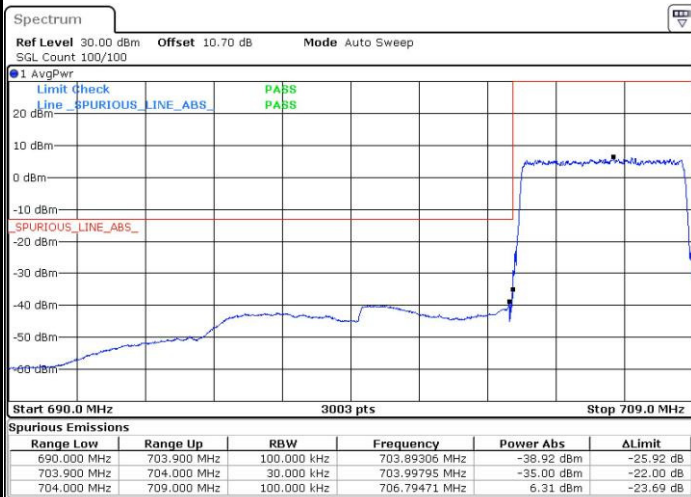
Lowest Band Edge / 1 RB



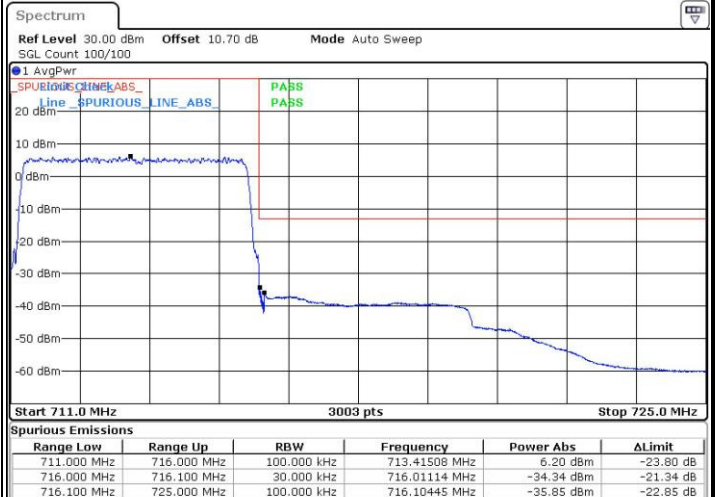
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



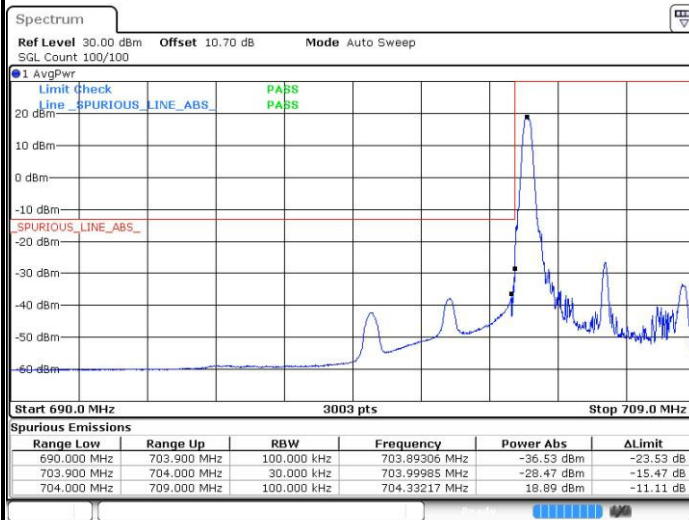
Highest Band Edge / Full RB





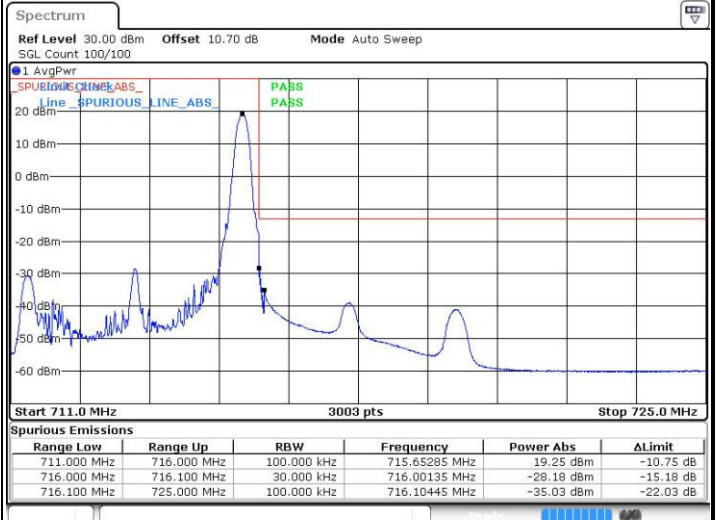
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



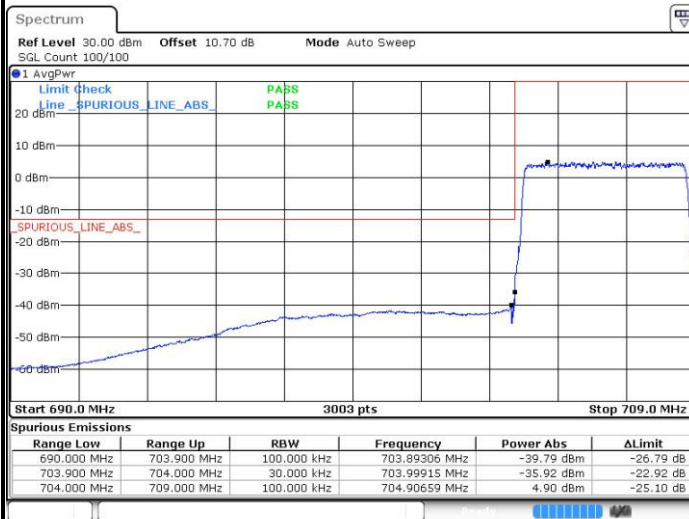
Date: 9 JAN 2017 11:45:39

Highest Band Edge / 1 RB



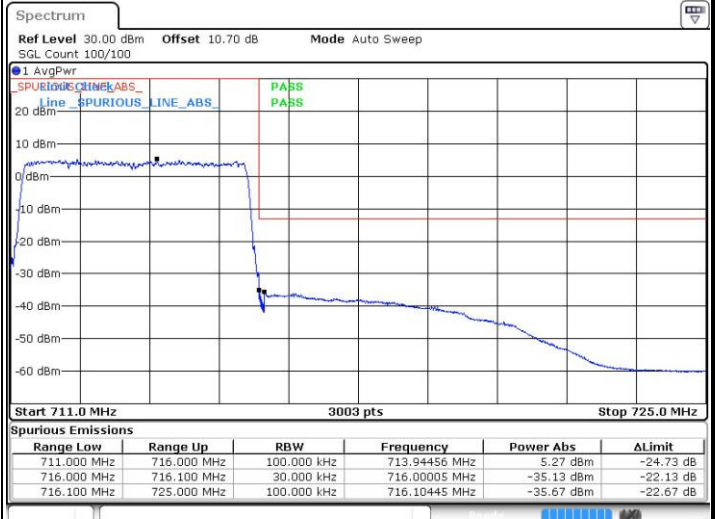
Date: 9 JAN 2017 11:55:15

Lowest Band Edge / Full RB



Date: 9 JAN 2017 11:47:57

Highest Band Edge / Full RB

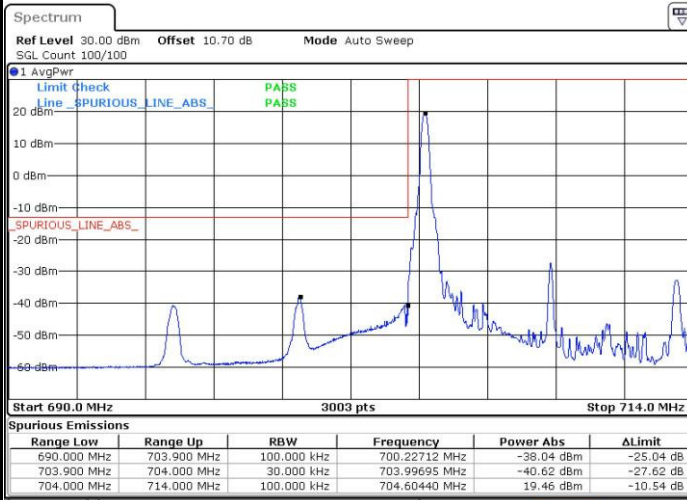


Date: 9 JAN 2017 11:57:33



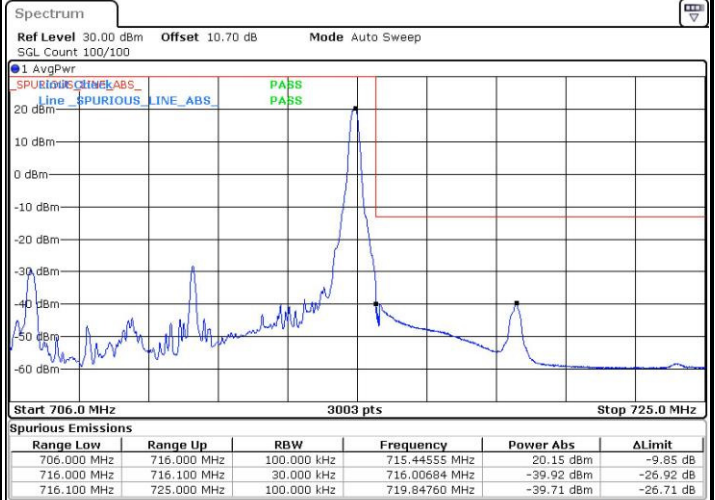
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



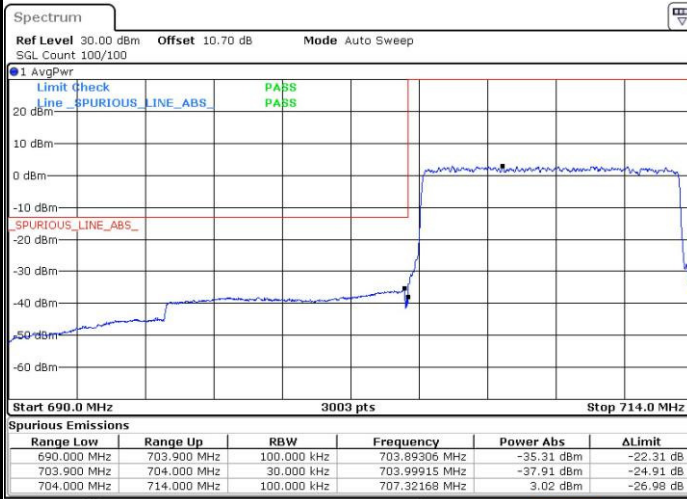
Date: 9 JAN 2017 12:01:12

Highest Band Edge / 1 RB



Date: 10 JAN 2017 10:57:09

Lowest Band Edge / Full RB



Date: 9 JAN 2017 12:03:30

Highest Band Edge / Full RB

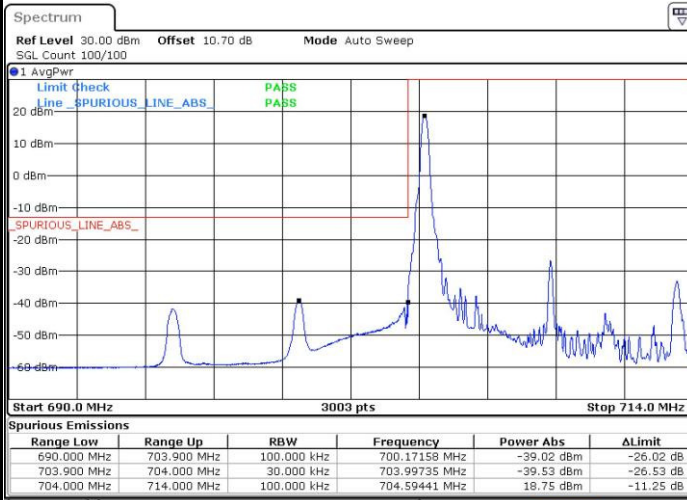


Date: 10 JAN 2017 10:59:27



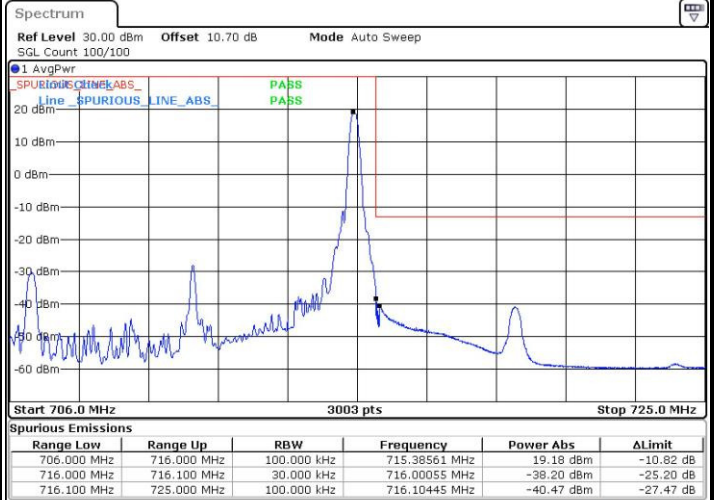
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



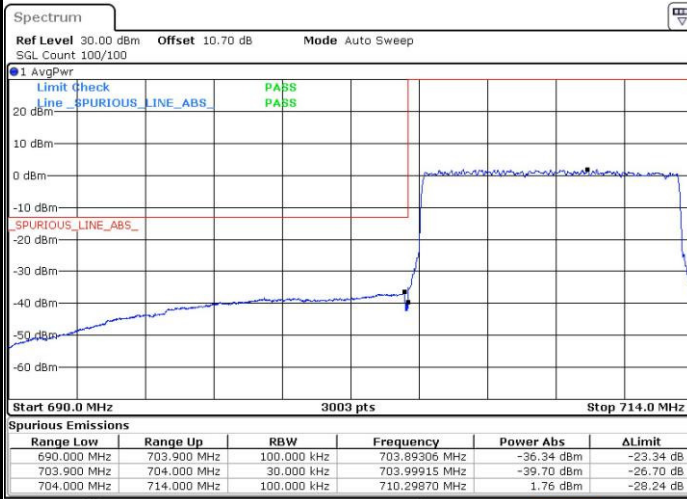
Date: 9 JAN 2017 12:02:21

Highest Band Edge / 1 RB



Date: 10 JAN 2017 10:58:18

Lowest Band Edge / Full RB



Date: 9 JAN 2017 12:04:39

Highest Band Edge / Full RB



Date: 10 JAN 2017 11:00:36



Conducted Spurious Emission

