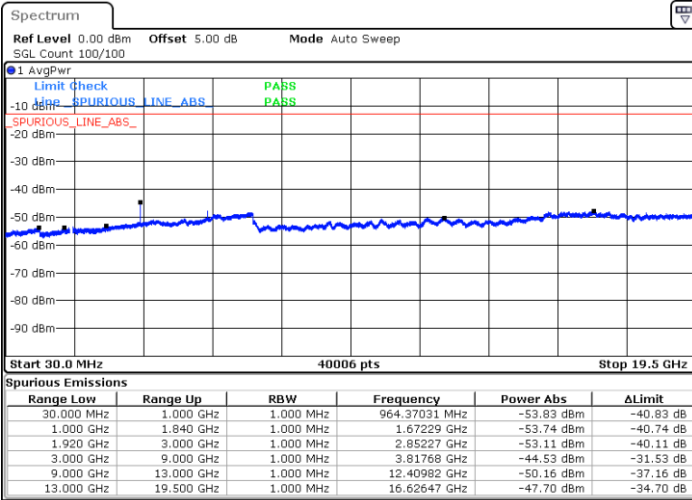




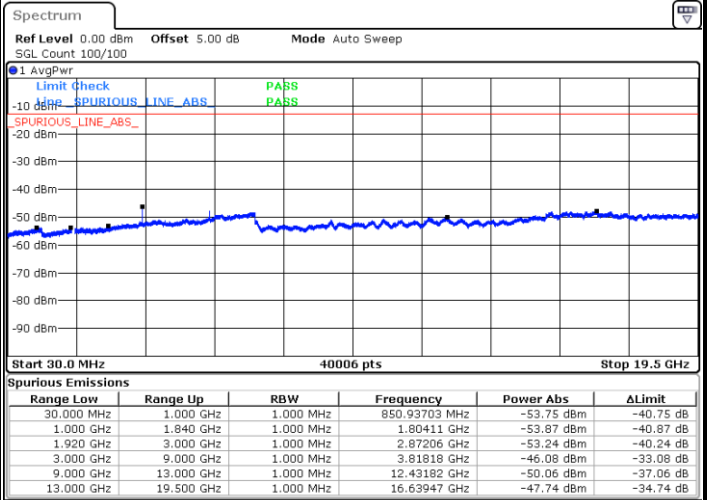
LTE Band 2 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.SEP.2018 10:17:43

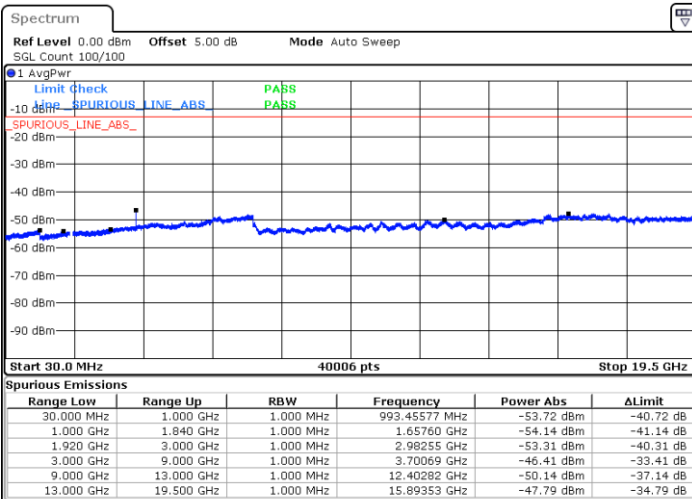


Date: 7.SEP.2018 10:18:39

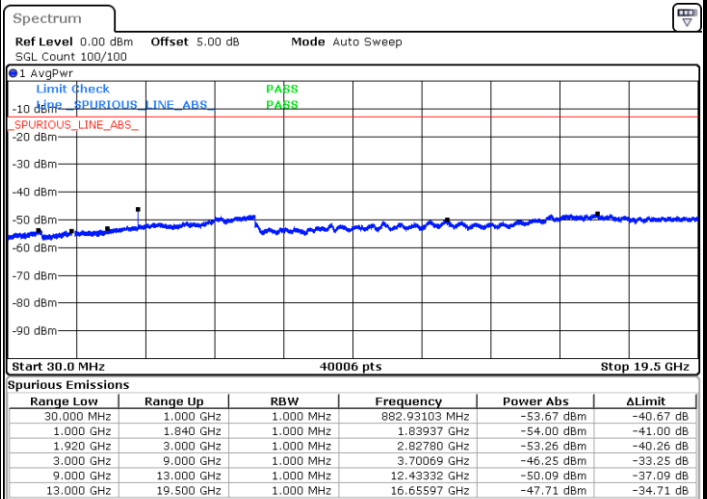
LTE Band 2 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 7.SEP.2018 10:24:49



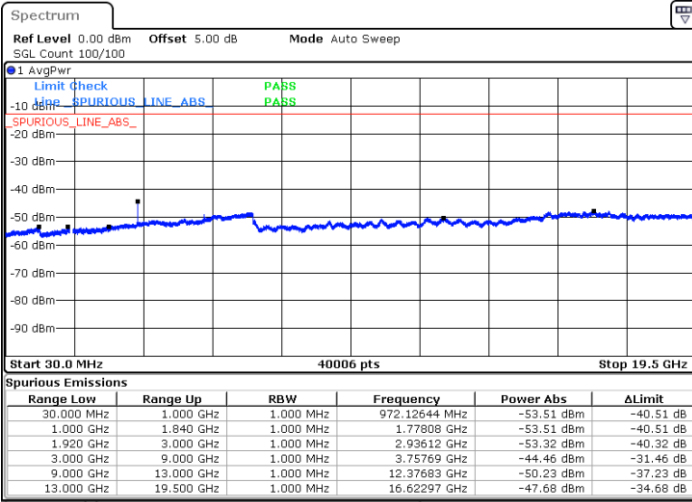
Date: 7.SEP.2018 10:25:45



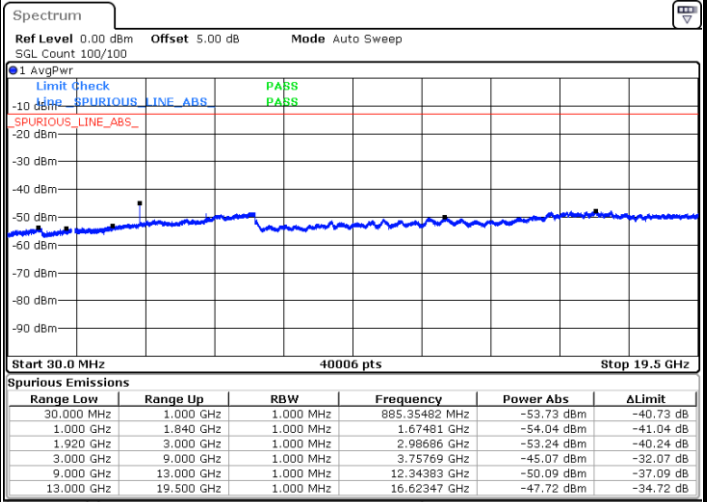
LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



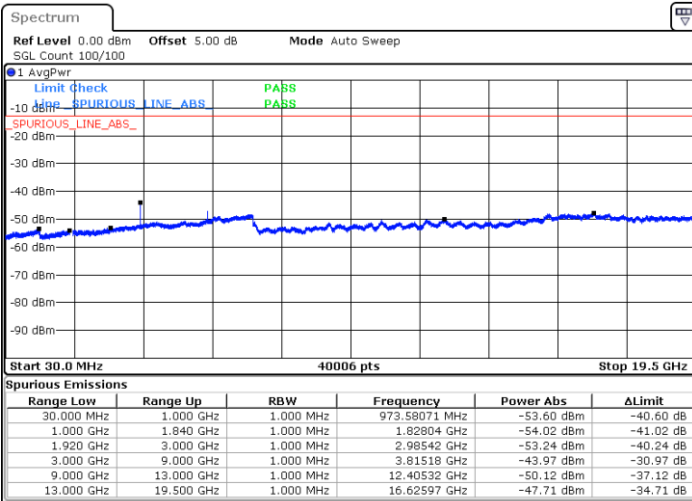
Date: 7.SEP.2018 10:27:23



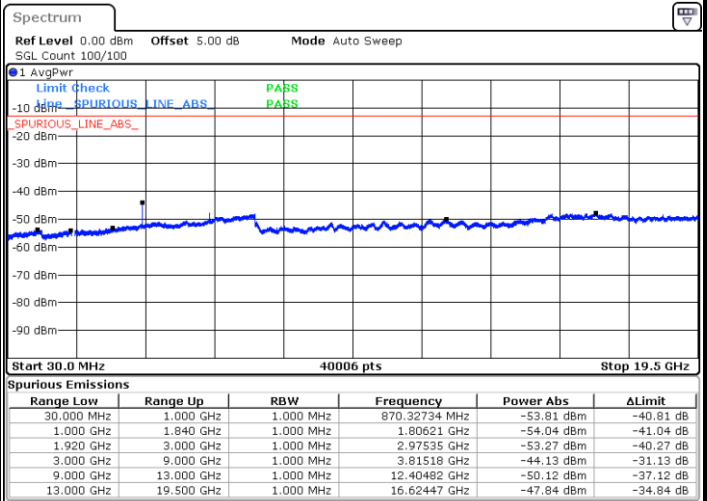
Date: 7.SEP.2018 10:28:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.SEP.2018 10:34:29



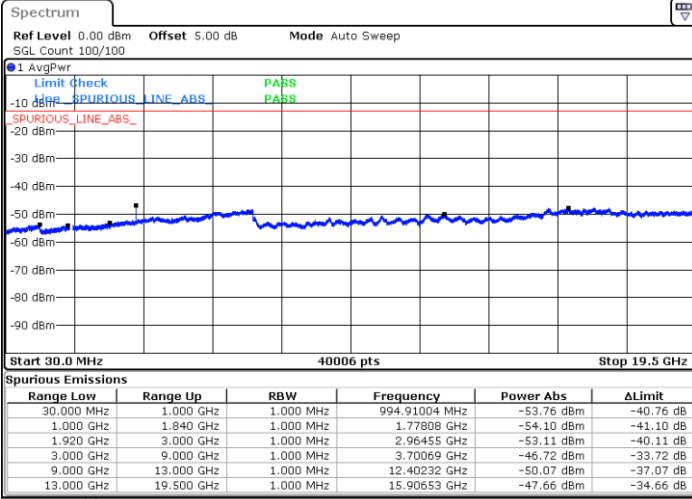
Date: 7.SEP.2018 10:35:24



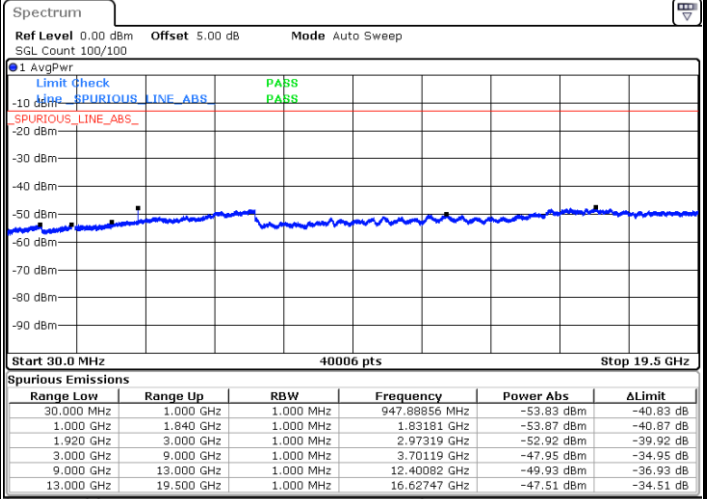
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



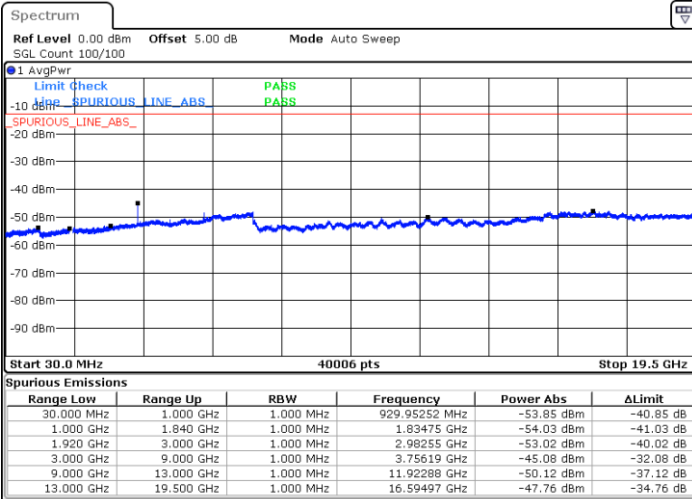
Date: 7.SEP.2018 10:41:35



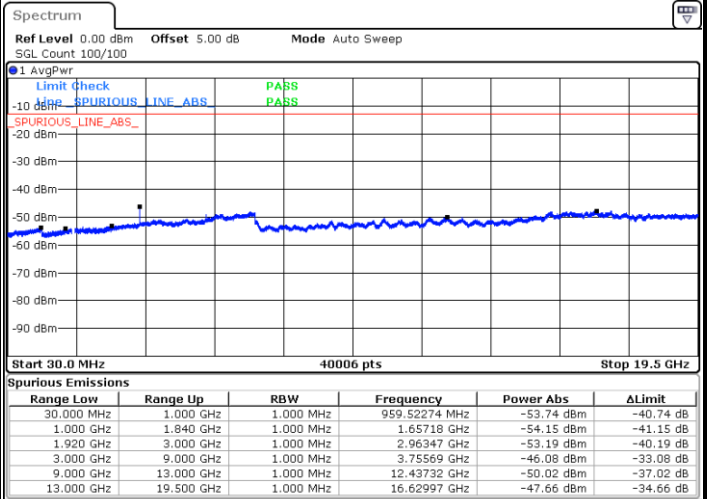
Date: 7.SEP.2018 10:42:31

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 7.SEP.2018 10:44:09

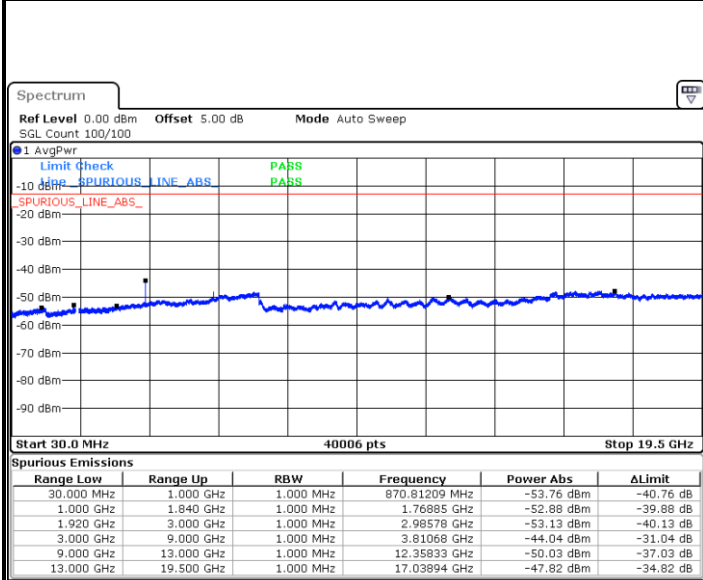


Date: 7.SEP.2018 10:45:04



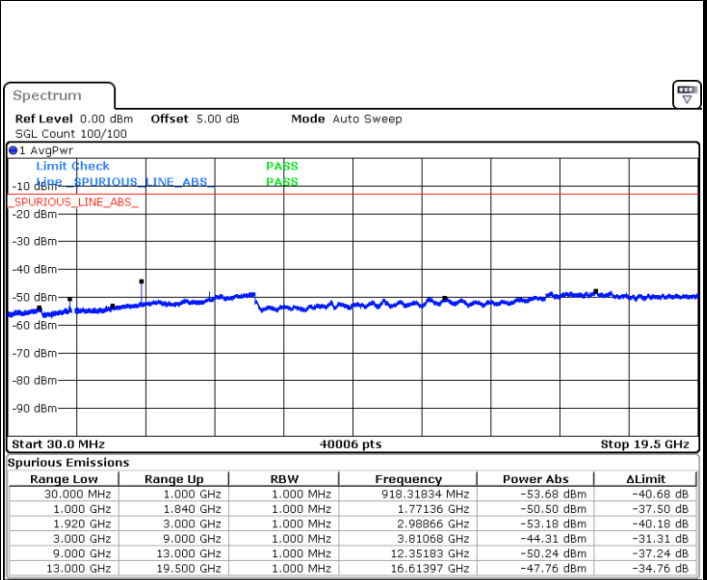
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 7.SEP.2018 10:51:15

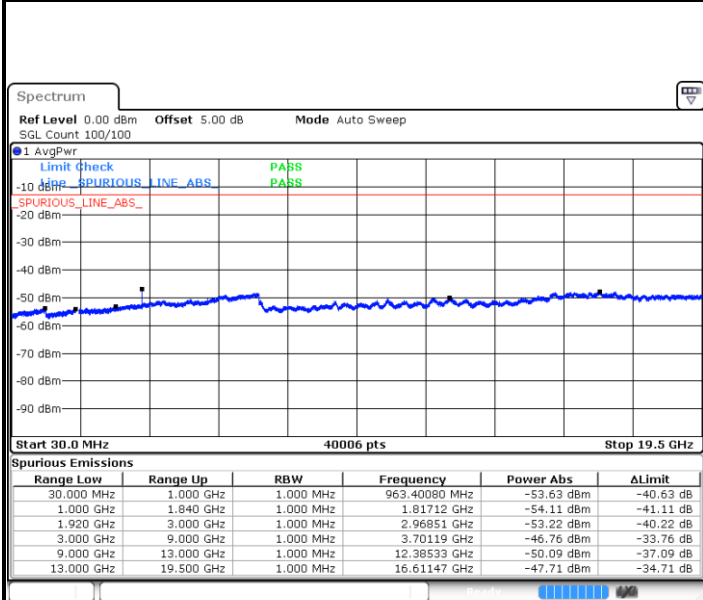
Highest Channel / 16QAM



Date: 7.SEP.2018 10:52:10

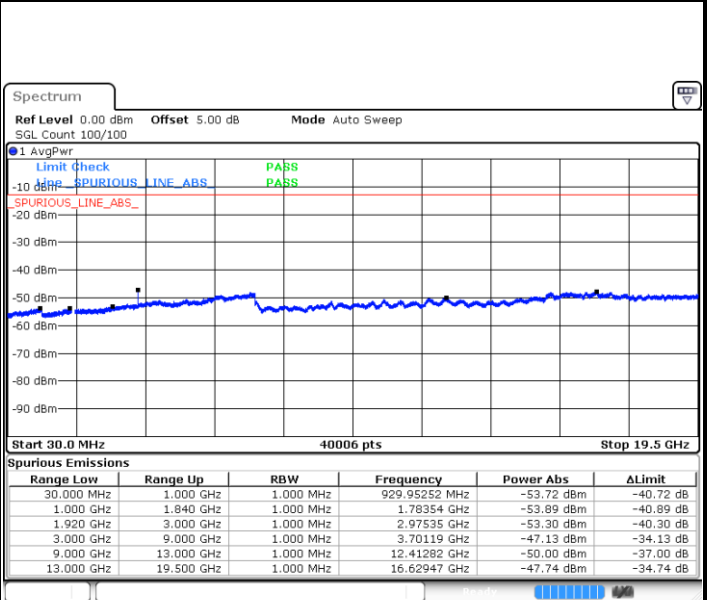
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 7.SEP.2018 10:58:21

Lowest Channel / 16QAM



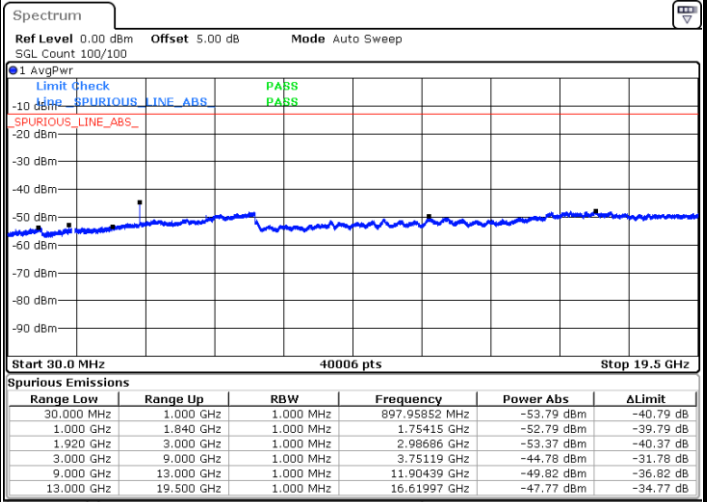
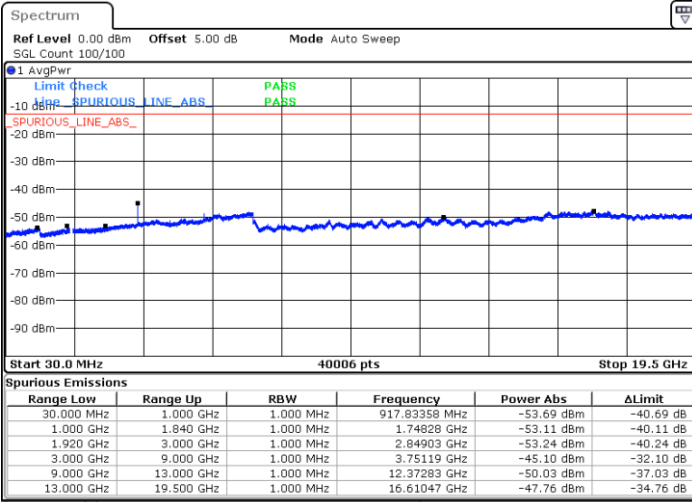
Date: 7.SEP.2018 10:59:16



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

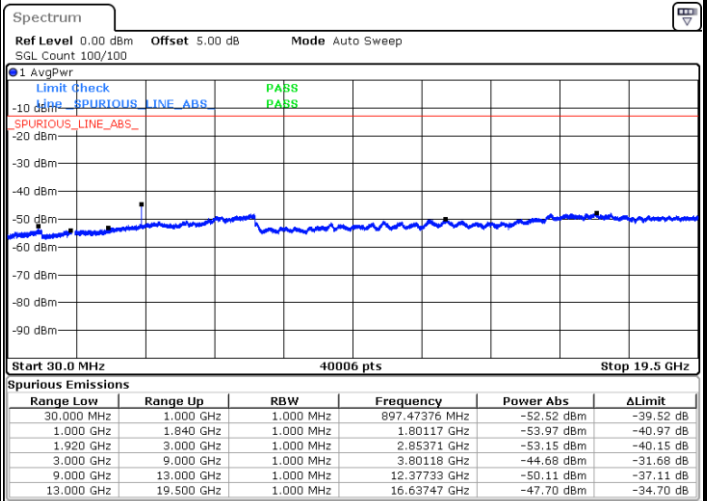
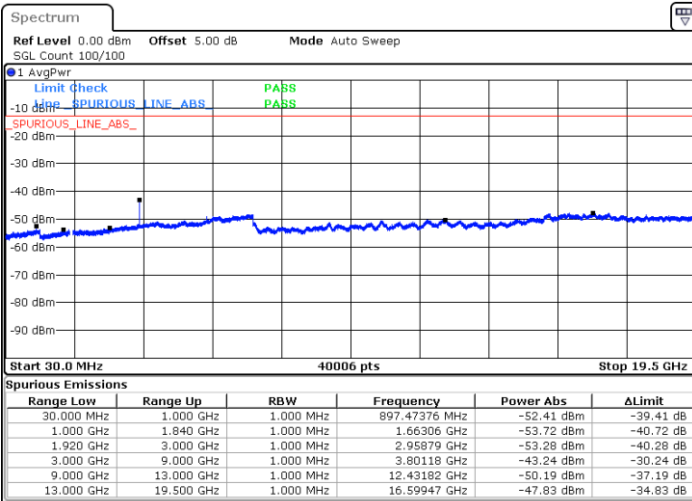


Date: 7.SEP.2018 11:00:54

Date: 7.SEP.2018 11:01:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.SEP.2018 11:08:00

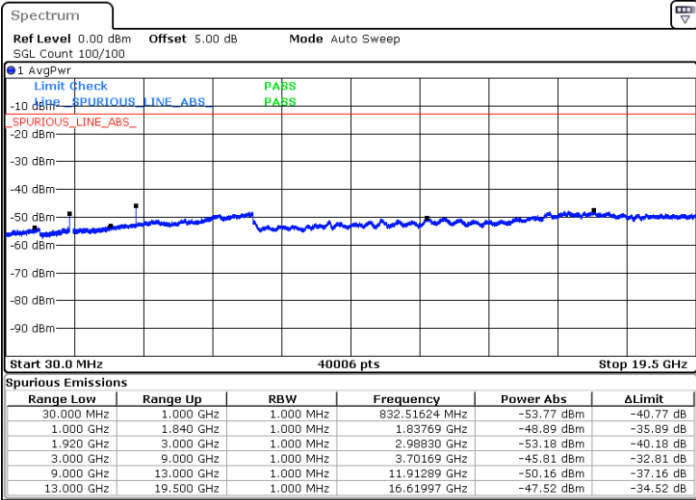
Date: 7.SEP.2018 11:08:56



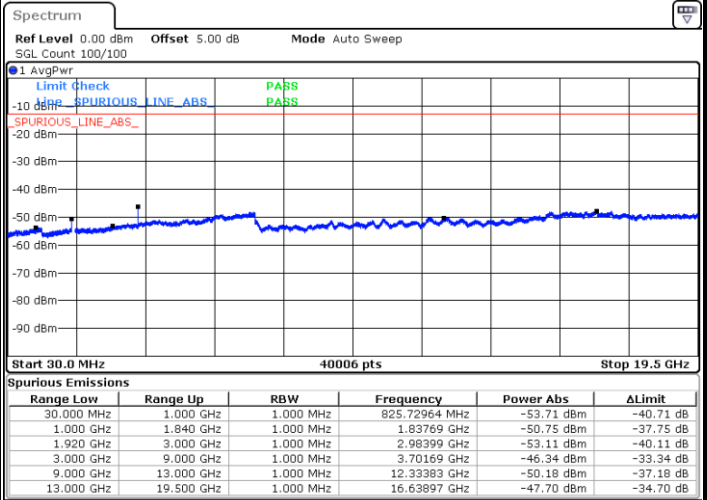
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



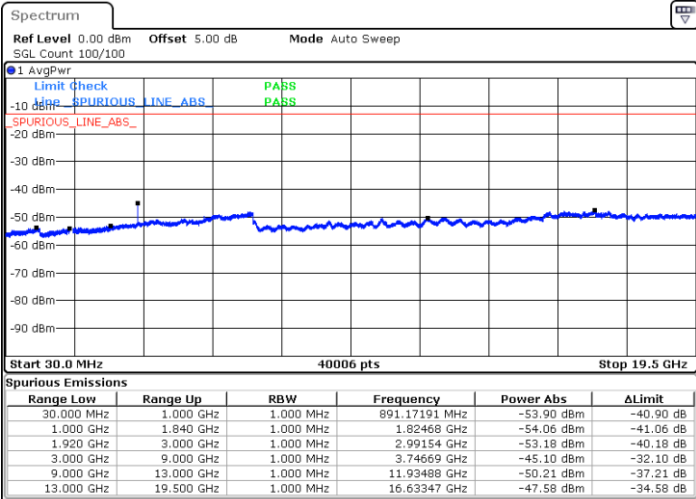
Date: 7.SEP.2018 11:15:06



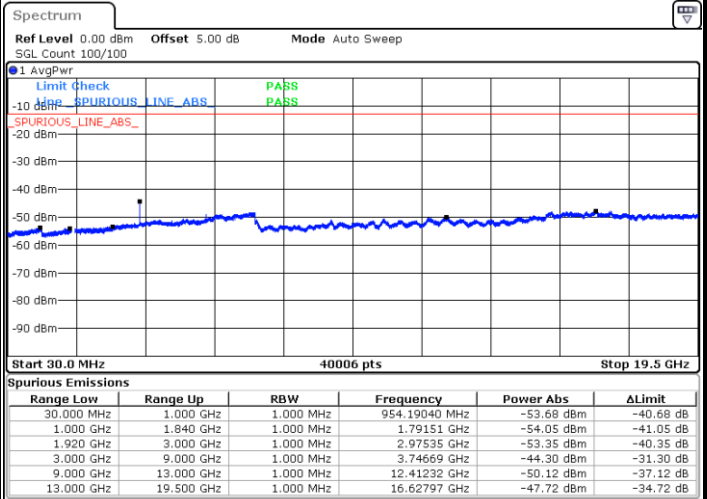
Date: 7.SEP.2018 11:16:02

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 7.SEP.2018 11:17:40

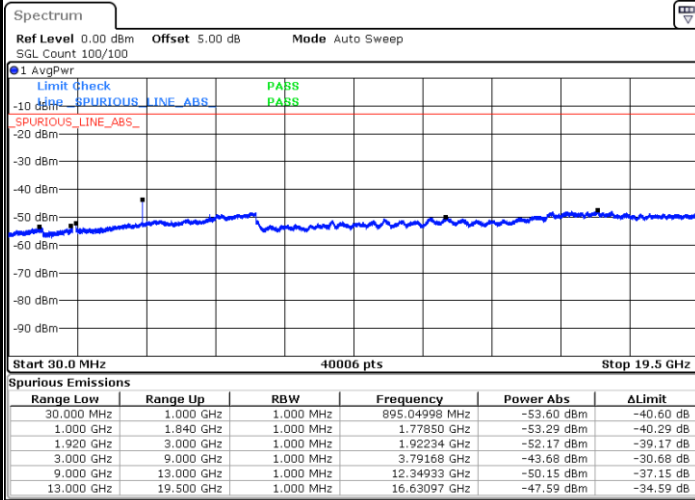


Date: 7.SEP.2018 11:18:35



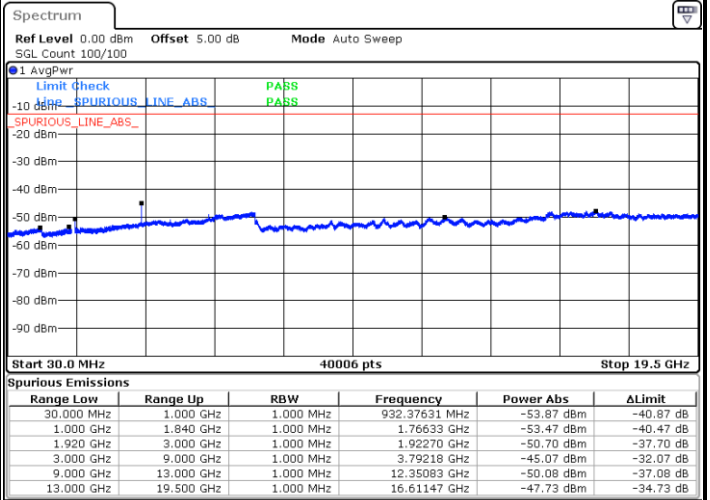
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 7.SEP.2018 11:24:46

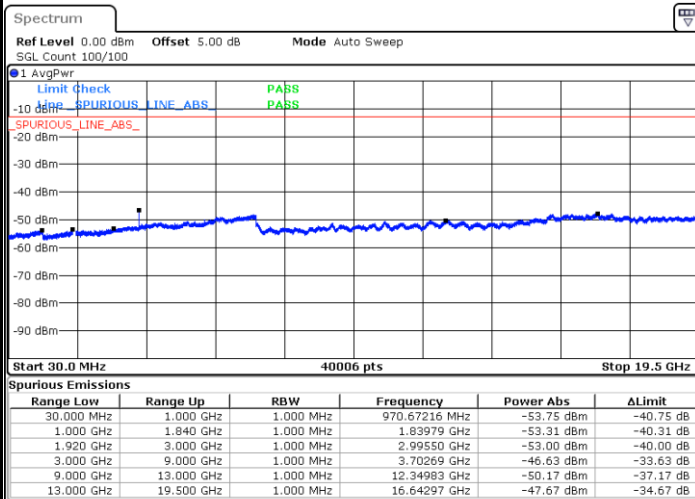
Highest Channel / 16QAM



Date: 7.SEP.2018 11:25:41

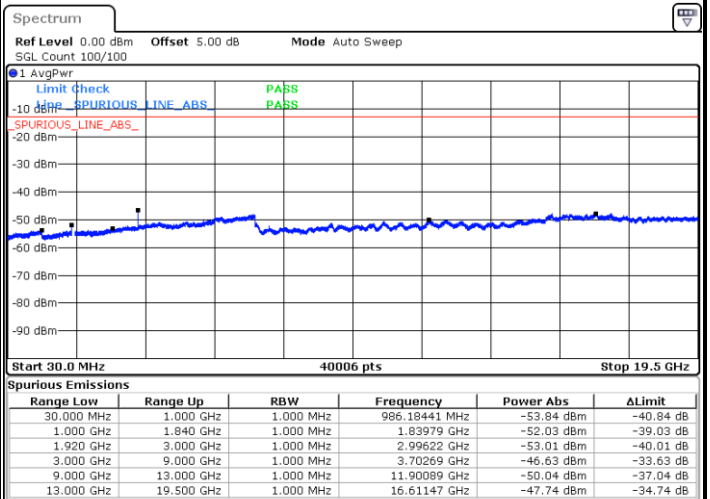
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 7.SEP.2018 11:31:52

Lowest Channel / 16QAM



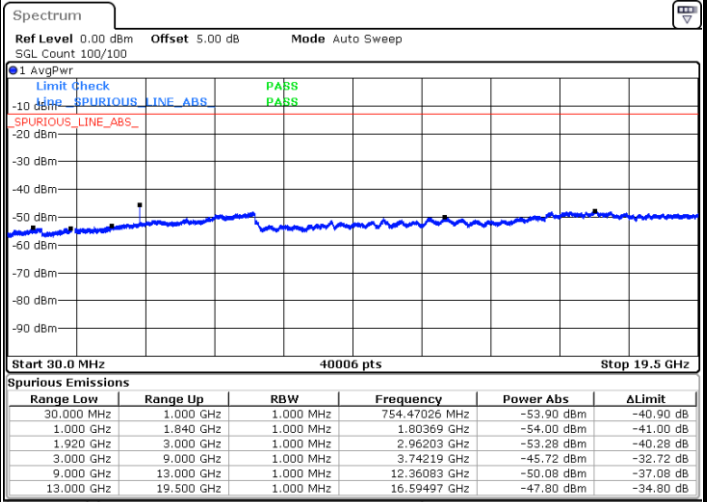
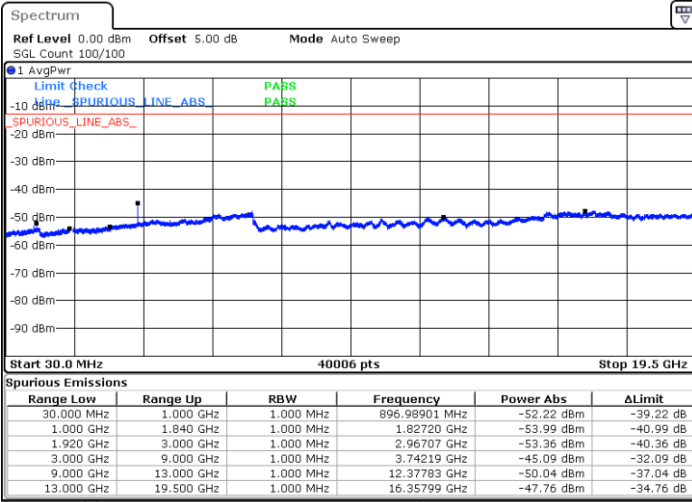
Date: 7.SEP.2018 11:32:48



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

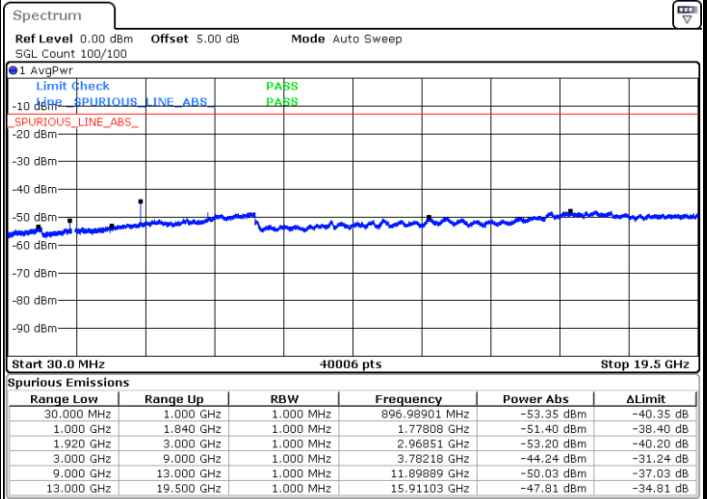
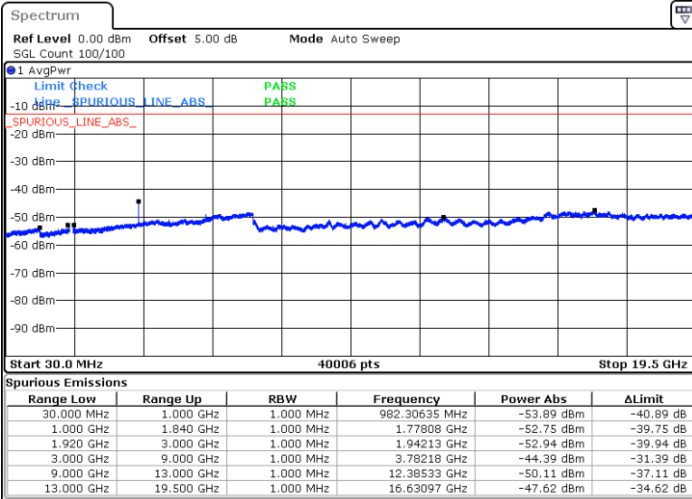


Date: 7.SEP.2018 11:34:26

Date: 7.SEP.2018 11:35:21

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.SEP.2018 11:41:32

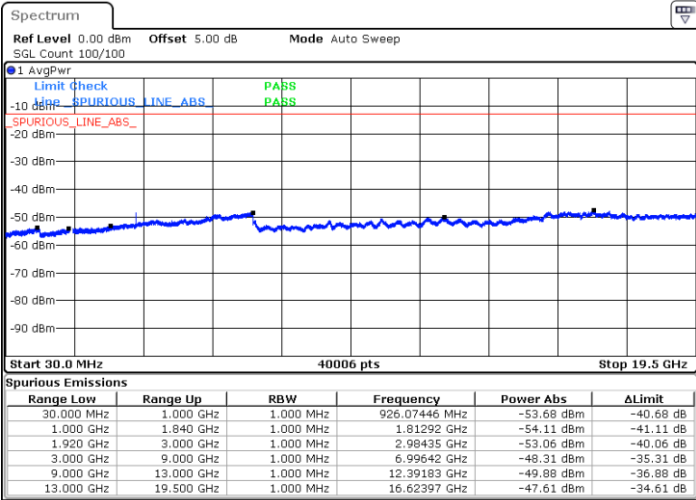
Date: 7.SEP.2018 11:42:27



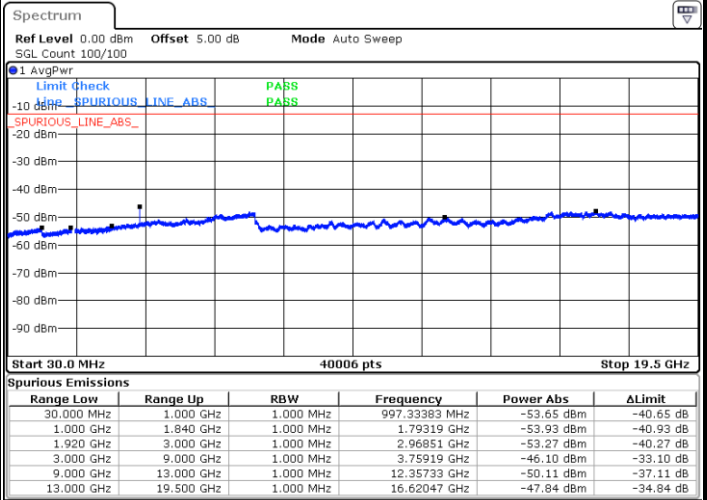
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

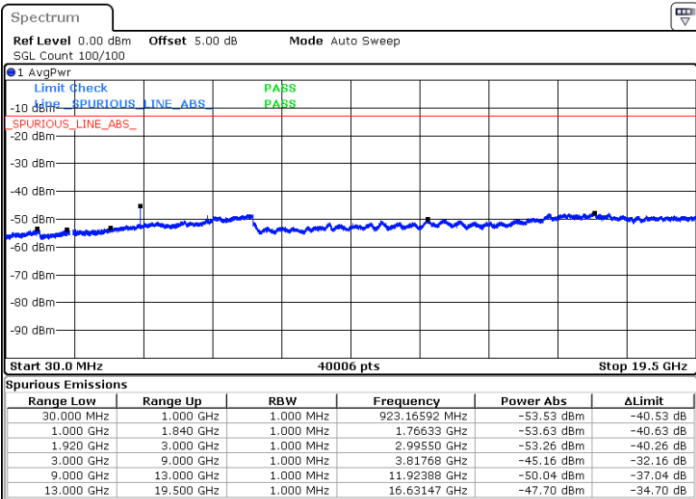


Date: 7.SEP.2018 12:26:03



Date: 7.SEP.2018 12:26:58

Highest Channel / 64QAM

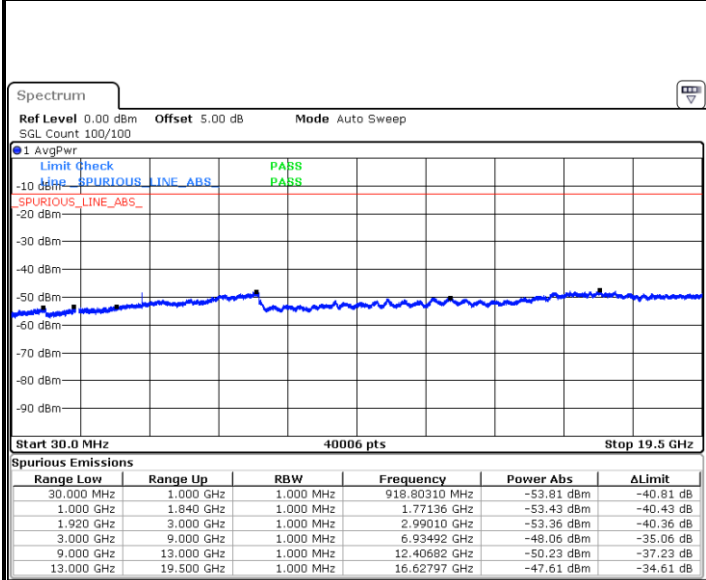


Date: 7.SEP.2018 12:27:54



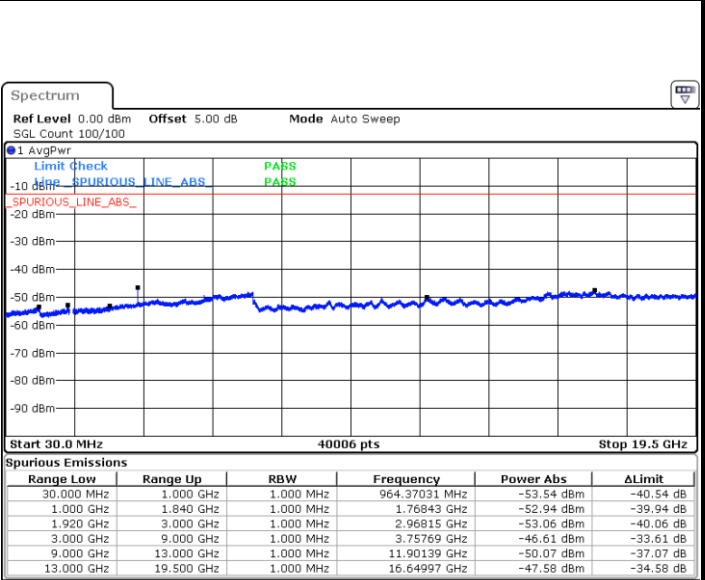
LTE Band 2 / 3MHz

Lowest Channel / 64QAM



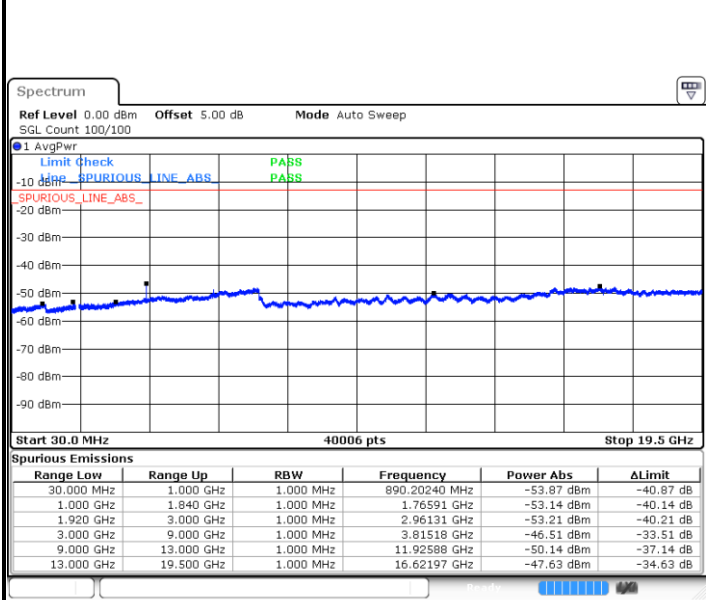
Date: 7.SEP.2018 12:28:50

Middle Channel / 64QAM



Date: 7.SEP.2018 12:29:45

Highest Channel / 64QAM



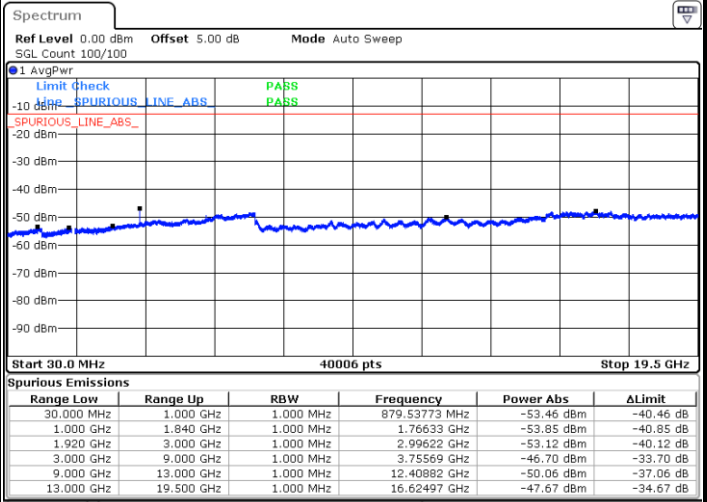
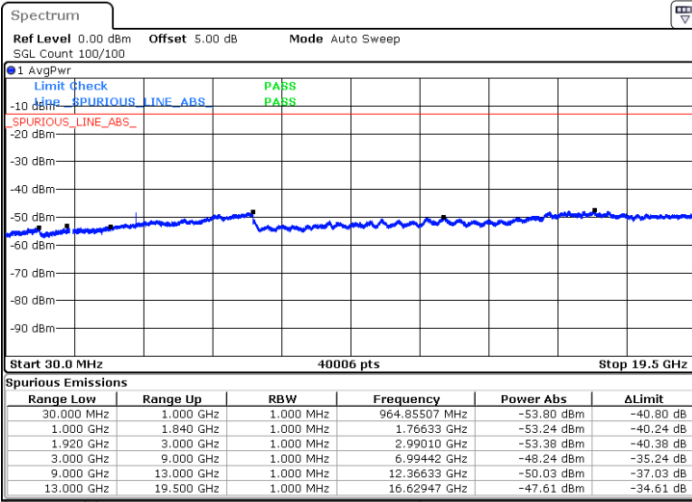
Date: 7.SEP.2018 12:30:41



LTE Band 2 / 5MHz

Lowest Channel / 64QAM

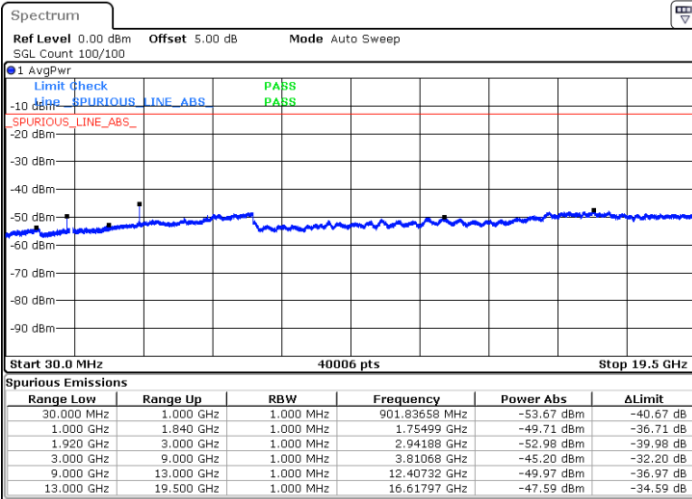
Middle Channel / 64QAM



Date: 7.SEP.2018 12:31:36

Date: 7.SEP.2018 12:32:32

Highest Channel / 64QAM



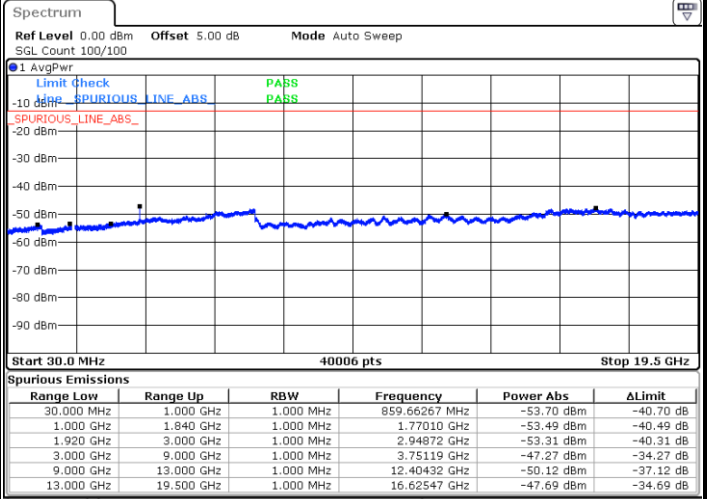
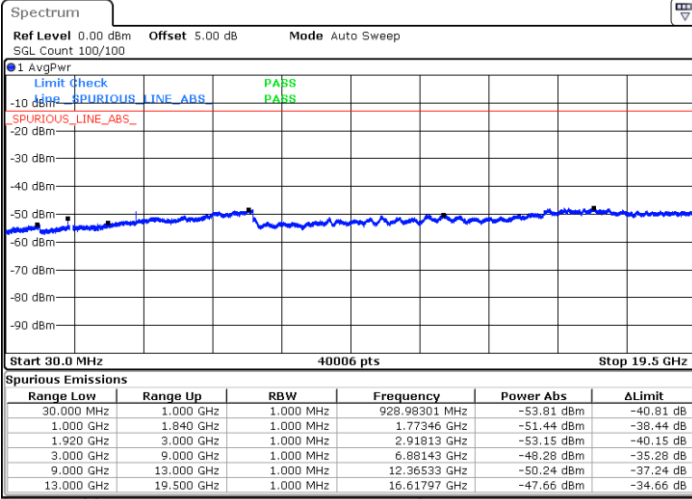
Date: 7.SEP.2018 12:33:27



LTE Band 2 / 10MHz

Lowest Channel / 64QAM

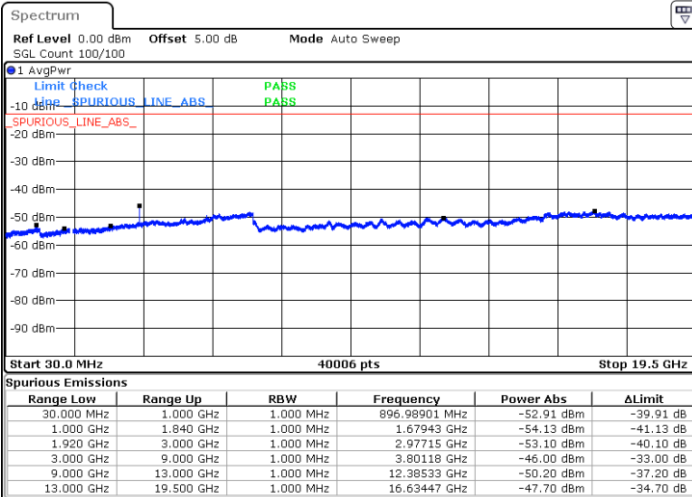
Middle Channel / 64QAM



Date: 7.SEP.2018 12:34:23

Date: 7.SEP.2018 12:35:18

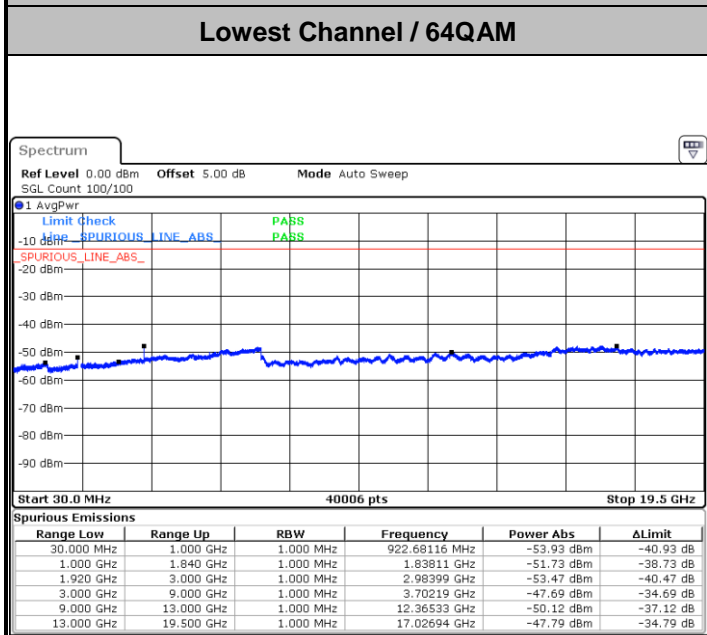
Highest Channel / 64QAM



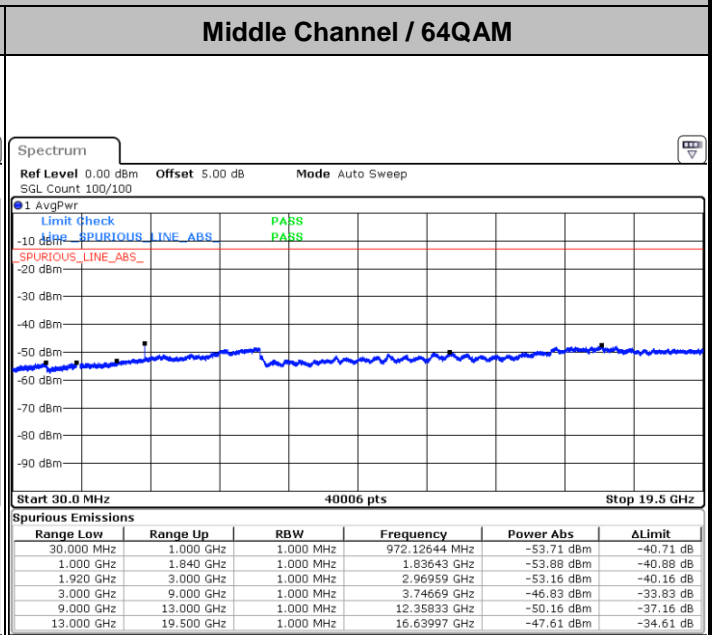
Date: 7.SEP.2018 12:36:14



LTE Band 2 / 15MHz

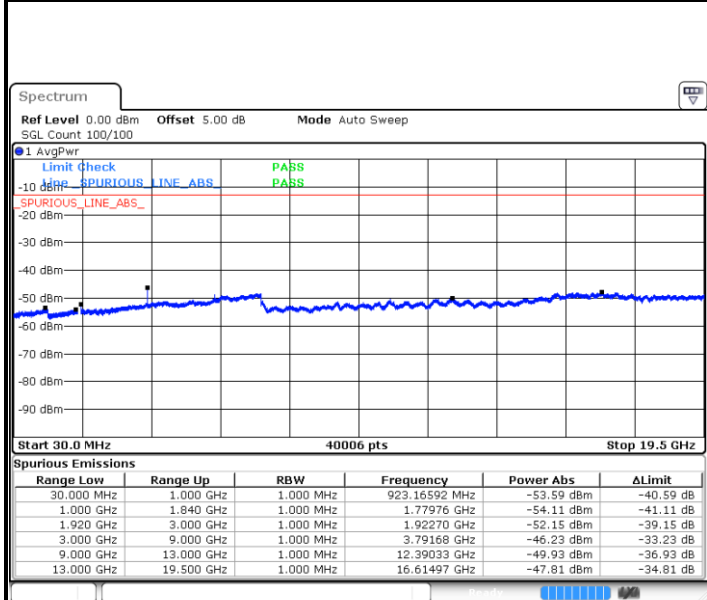


Date: 7.SEP.2018 12:37:09



Date: 7.SEP.2018 12:38:05

Highest Channel / 64QAM



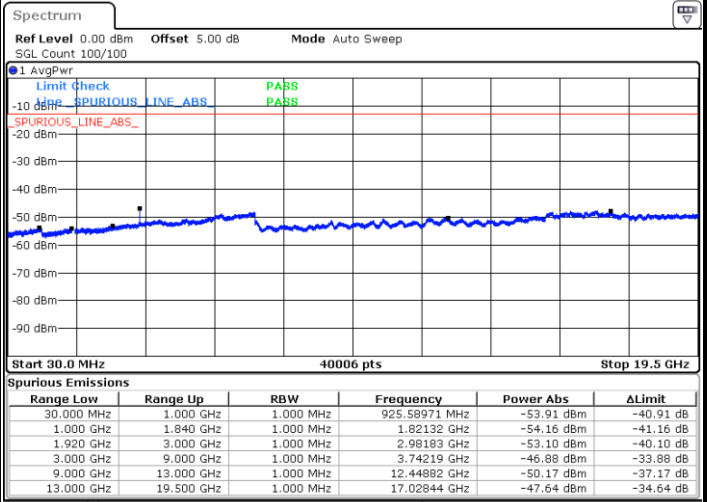
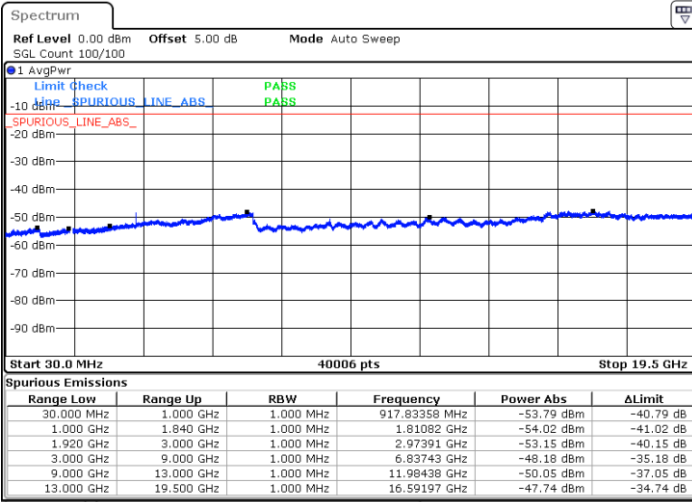
Date: 7.SEP.2018 12:39:00



LTE Band 2 / 20MHz

Lowest Channel / 64QAM

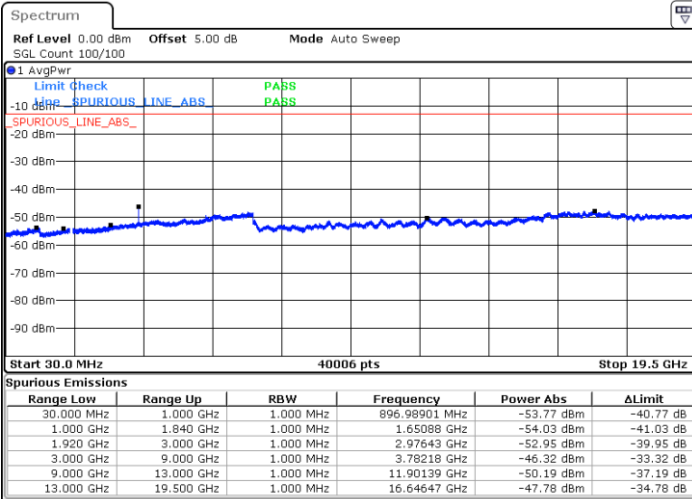
Middle Channel / 64QAM



Date: 7.SEP.2018 12:39:56

Date: 7.SEP.2018 12:40:51

Highest Channel / 64QAM



Date: 7.SEP.2018 12:41:47



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 | 0.0016 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0012 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0007 | |
| 0 | Normal Voltage | 0.0010 | |
| -10 | Normal Voltage | 0.0014 | |
| -20 | Normal Voltage | 0.0006 | |
| -30 | Normal Voltage | 0.0001 | |
| 20 | Maximum Voltage | 0.0003 | |
| 20 | Normal Voltage | 0.0011 | |
| 20 | Battery End Point | 0.0007 | |

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 4

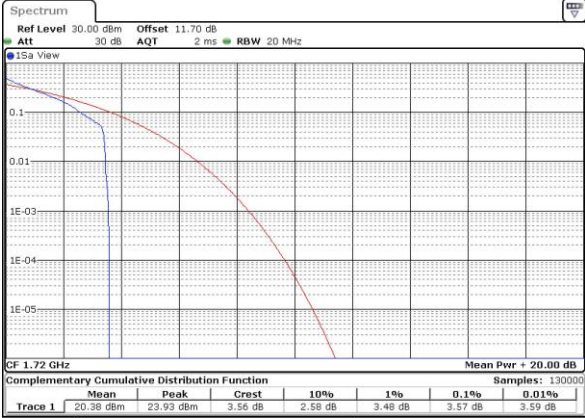
Peak-to-Average Ratio

| Mode | LTE Band 4 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.57 | 4.52 | 5.1 | 5.97 | PASS |
| Middle CH | 3.54 | 4.55 | 5.19 | 5.86 | |
| Highest CH | 3.57 | 4.61 | 5.07 | 5.91 | |
| Mode | LTE Band 4 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 6.38 | 6.41 | - | - | PASS |
| Middle CH | 7.04 | 6.35 | - | - | |
| Highest CH | 6.35 | 6.41 | - | - | |



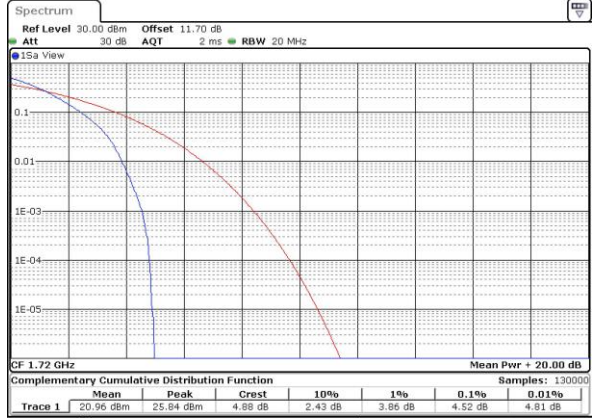
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 22 SEP 2018 02:42:21

Lowest Channel / Full RB



Date: 22 SEP 2018 02:42:35

Middle Channel / 1RB



Date: 22 SEP 2018 02:42:47

Middle Channel / Full RB



Date: 22 SEP 2018 02:42:57

Highest Channel / 1RB



Date: 22 SEP 2018 02:43:07

Highest Channel / Full RB



Date: 22 SEP 2018 02:43:19



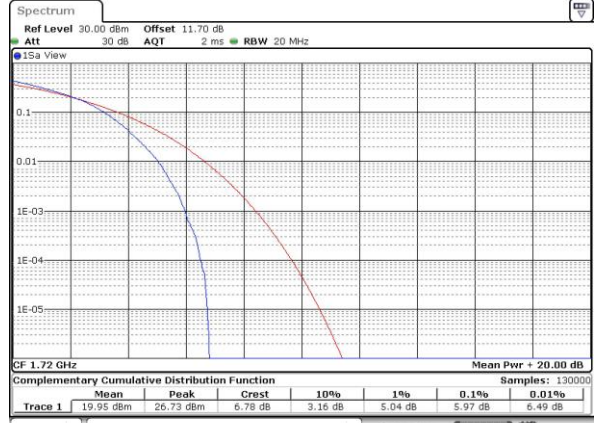
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



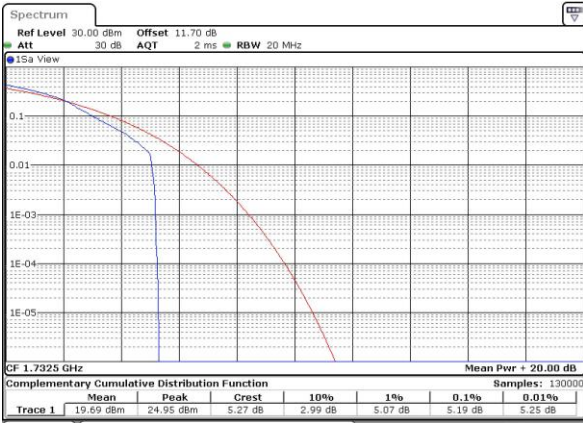
Date: 22 SEP 2018 02:41:16

Lowest Channel / Full RB



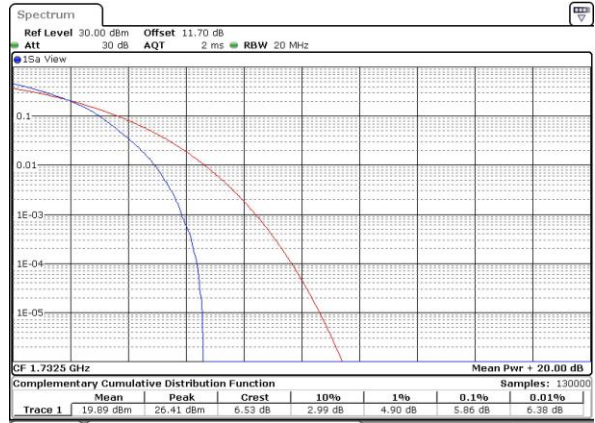
Date: 22 SEP 2018 02:41:27

Middle Channel / 1RB



Date: 22 SEP 2018 02:41:37

Middle Channel / Full RB



Date: 22 SEP 2018 02:41:48

Highest Channel / 1RB



Date: 22 SEP 2018 02:41:59

Highest Channel / Full RB



Date: 22 SEP 2018 02:42:09



LTE Band 4 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 22 SEP 2018 02:43:30

Lowest Channel / Full RB



Date: 22 SEP 2018 02:43:40

Middle Channel / 1RB



Date: 22 SEP 2018 02:43:52

Middle Channel / Full RB



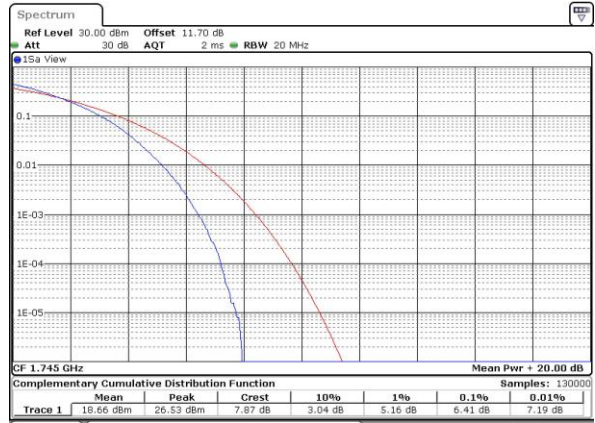
Date: 22 SEP 2018 02:44:05

Highest Channel / 1RB



Date: 22 SEP 2018 02:44:16

Highest Channel / Full RB



Date: 22 SEP 2018 02:44:32



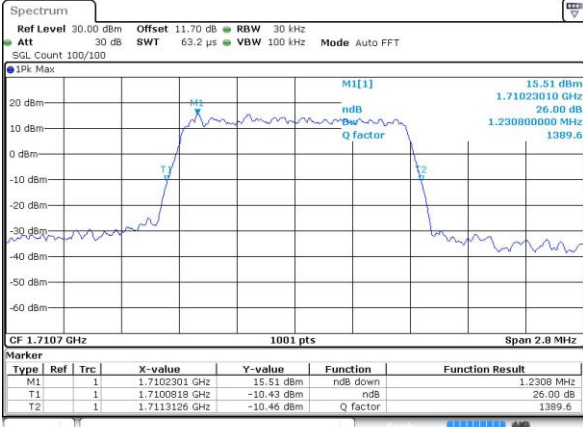
26dB Bandwidth

| Mode | LTE Band 4 : 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 | 1.23 | 1.23 | 2.98 | 3.03 | 4.94 | 4.88 | 9.77 | 9.75 | 14.42 | 14.48 | 20.3 | 20.1 |
| Middle CH | 1.22 | 1.24 | 3.07 | 3.06 | 4.95 | 4.84 | 9.95 | 9.71 | 14.45 | 14.36 | 20.18 | 20.34 |
| Highest CH | 1.23 | 1.25 | 3.02 | 3.02 | 4.90 | 4.89 | 9.77 | 9.89 | 14.72 | 14.39 | 20.14 | 20.1 |
| Mode | LTE Band 4 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.24 | - | 3.02 | - | 4.91 | - | 9.73 | - | 14.51 | - | 20.14 | - |
| Middle CH | 1.22 | - | 3.02 | - | 4.93 | - | 9.87 | - | 14.33 | - | 20.22 | - |
| Highest CH | 1.22 | - | 3.00 | - | 4.87 | - | 9.81 | - | 14.51 | - | 20.10 | - |



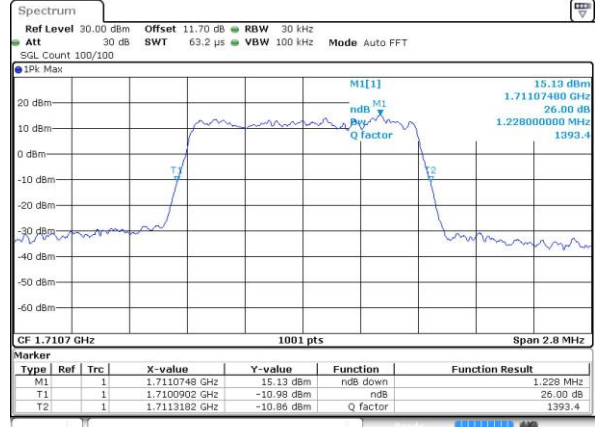
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



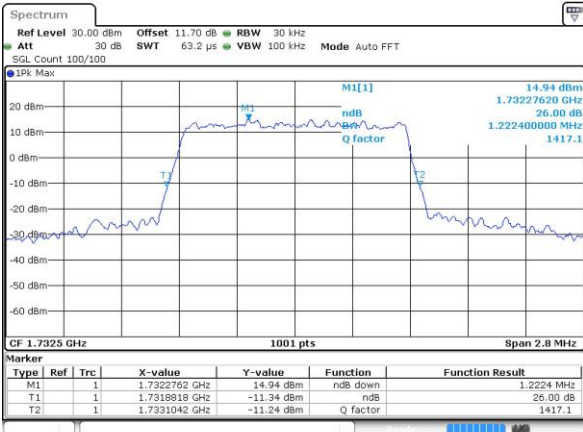
Date: 22 SEP 2018 02:23:55

Lowest Channel / 1.4MHz / 16QAM



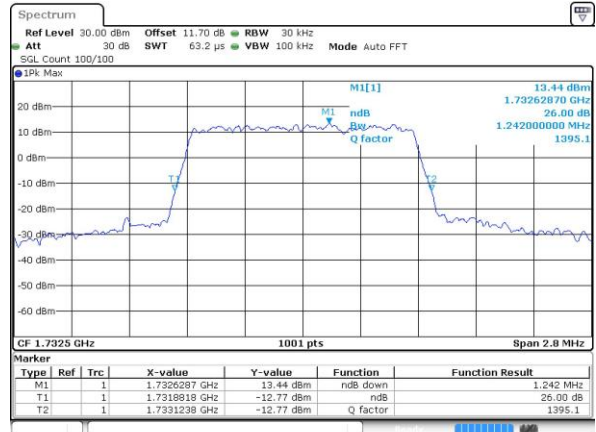
Date: 22 SEP 2018 02:24:07

Middle Channel / 1.4MHz / QPSK



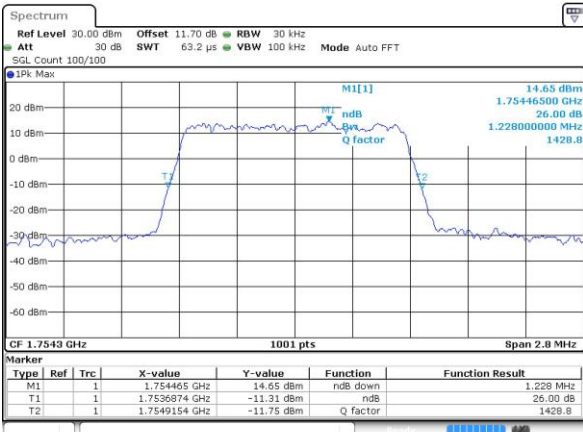
Date: 22 SEP 2018 02:31:22

Middle Channel / 1.4MHz / 16QAM



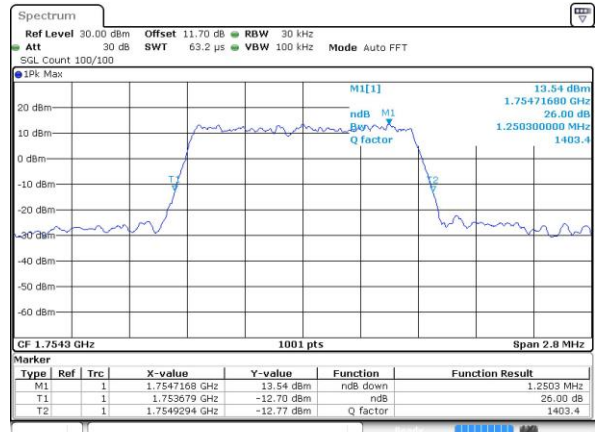
Date: 22 SEP 2018 02:31:34

Highest Channel / 1.4MHz / QPSK



Date: 22 SEP 2018 02:34:09

Highest Channel / 1.4MHz / 16QAM

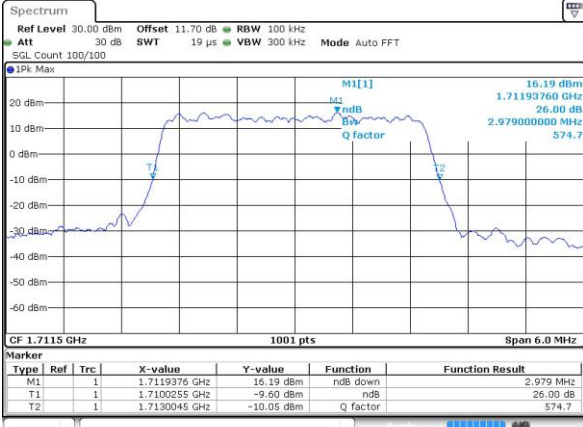


Date: 22 SEP 2018 02:34:20



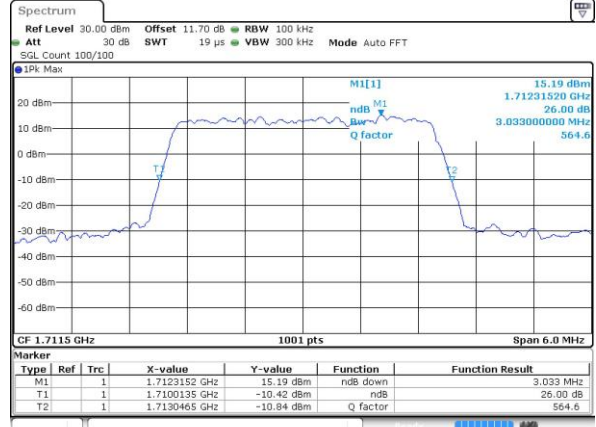
LTE Band 4

Lowest Channel / 3MHz / QPSK



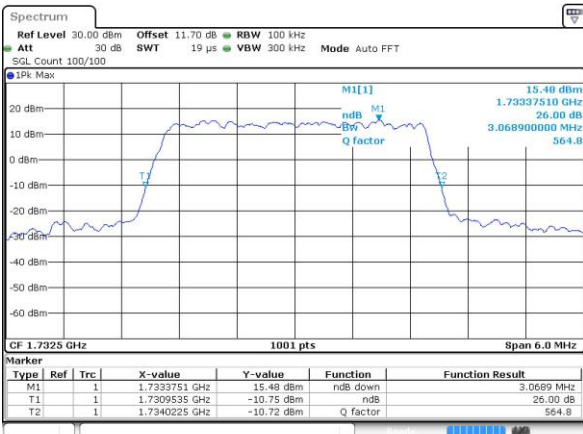
Date: 21.SEP.2018 23.43.19

Lowest Channel / 3MHz / 16QAM



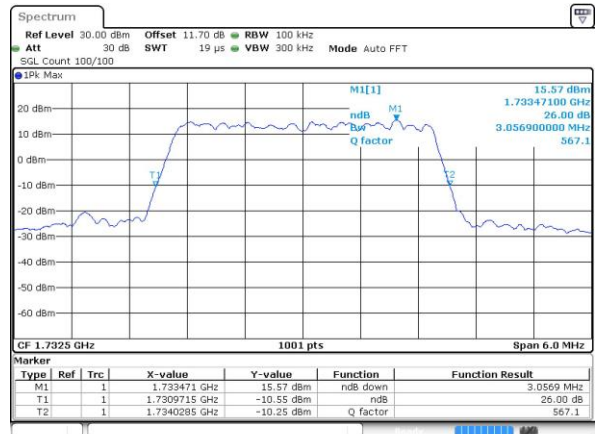
Date: 21.SEP.2018 23.43.31

Middle Channel / 3MHz / QPSK



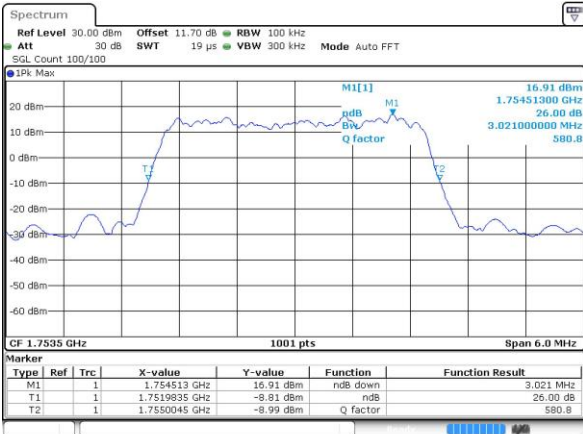
Date: 21.SEP.2018 23.50.06

Middle Channel / 3MHz / 16QAM



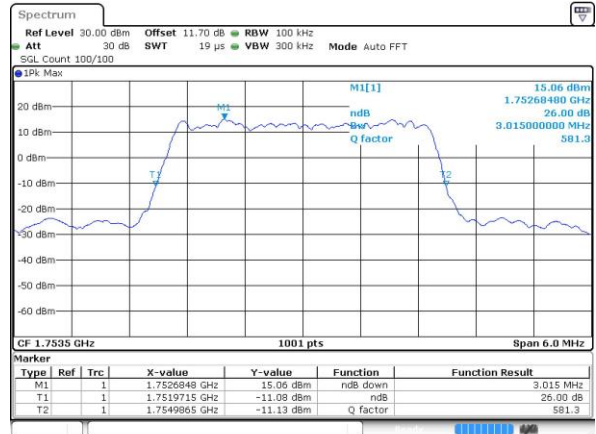
Date: 21.SEP.2018 23.50.18

Highest Channel / 3MHz / QPSK



Date: 21.SEP.2018 23.52.53

Highest Channel / 3MHz / 16QAM



Date: 21.SEP.2018 23.53.04