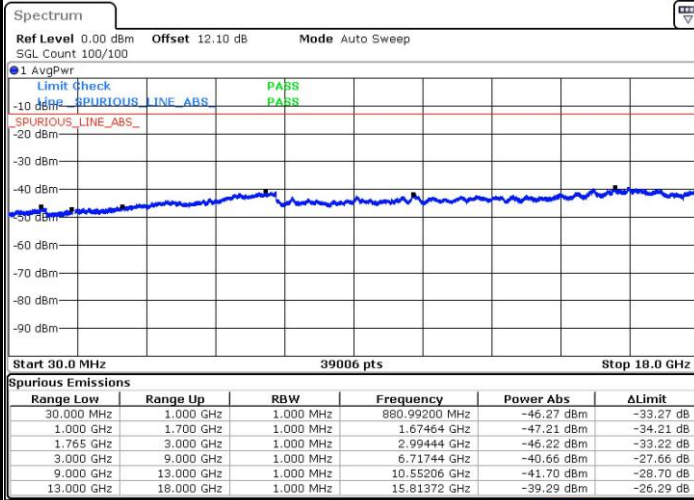




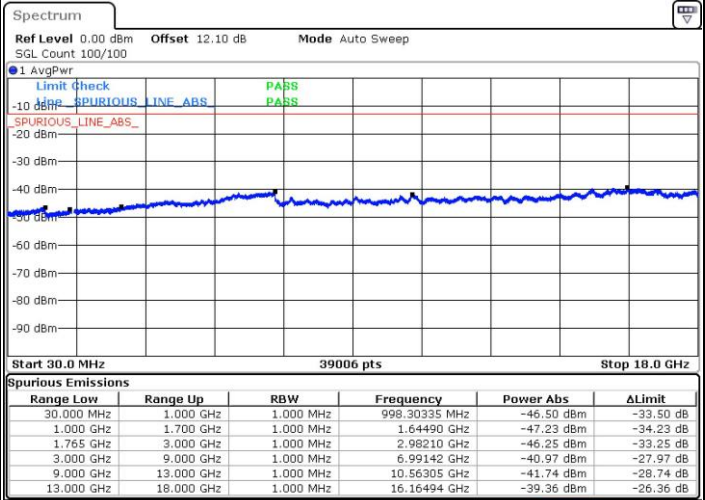
## LTE Band 4 / 3MHz

## Middle Channel / QPSK



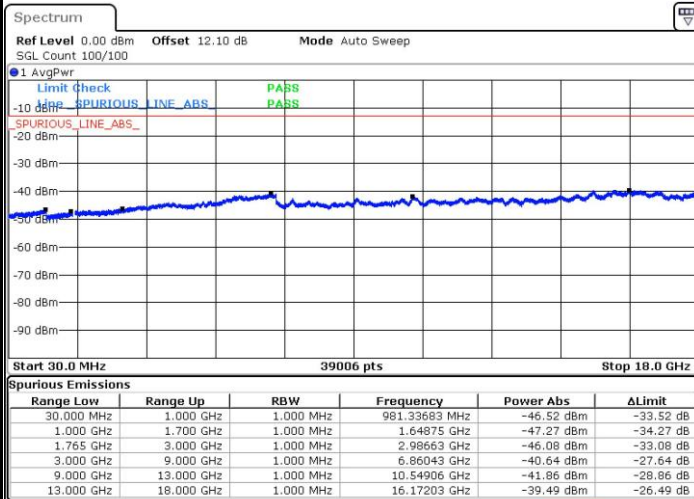
Date: 1.MAR.2019 00:05:44

## Middle Channel / 16QAM



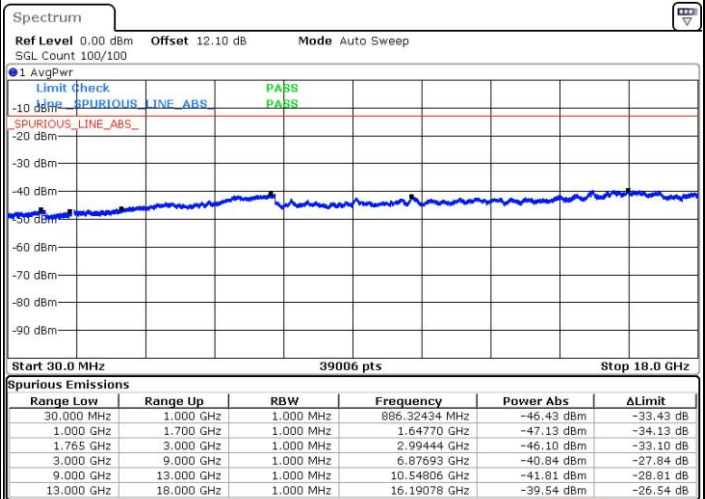
Date: 1.MAR.2019 00:06:44

## Highest Channel / QPSK



Date: 1.MAR.2019 00:12:31

## Highest Channel / 16QAM

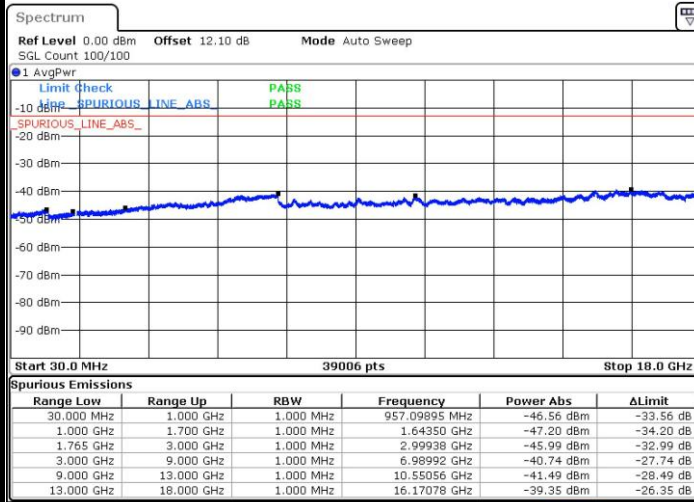


Date: 1.MAR.2019 00:13:32



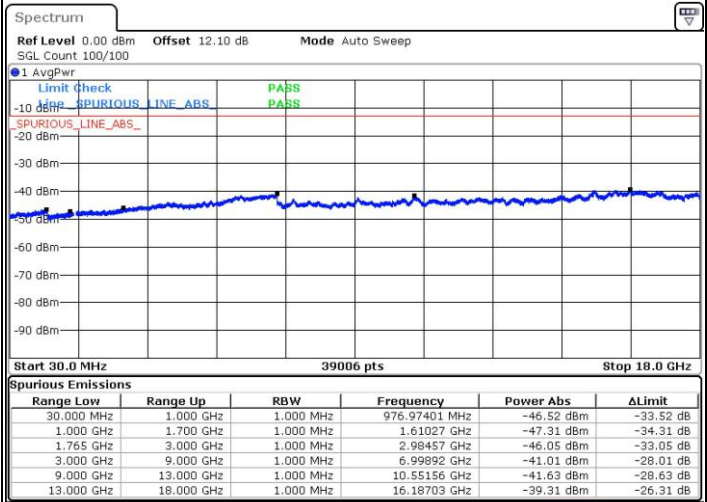
## LTE Band 4 / 5MHz

## Lowest Channel / QPSK



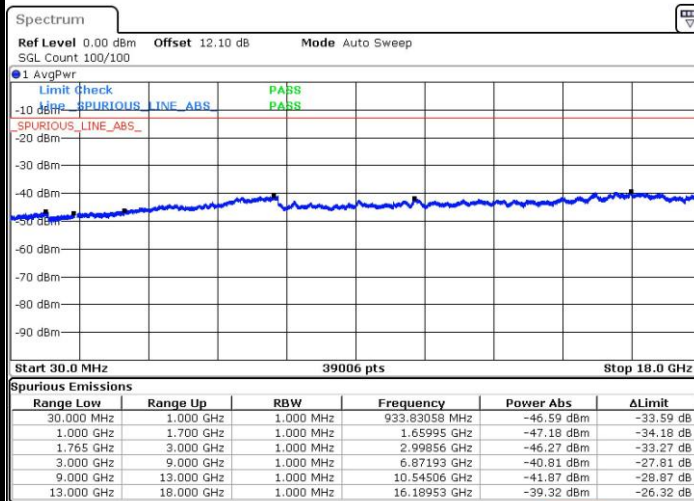
Date: 1.MAR.2019 00:19:20

## Lowest Channel / 16QAM



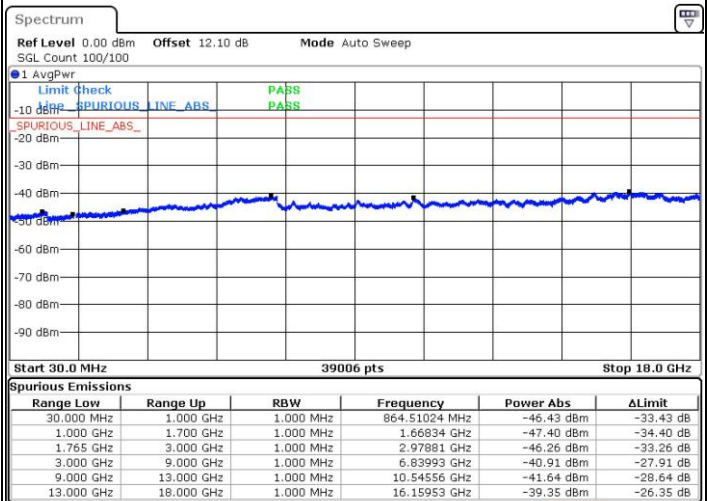
Date: 1.MAR.2019 00:20:21

## Middle Channel / QPSK



Date: 1.MAR.2019 00:22:08

## Middle Channel / 16QAM

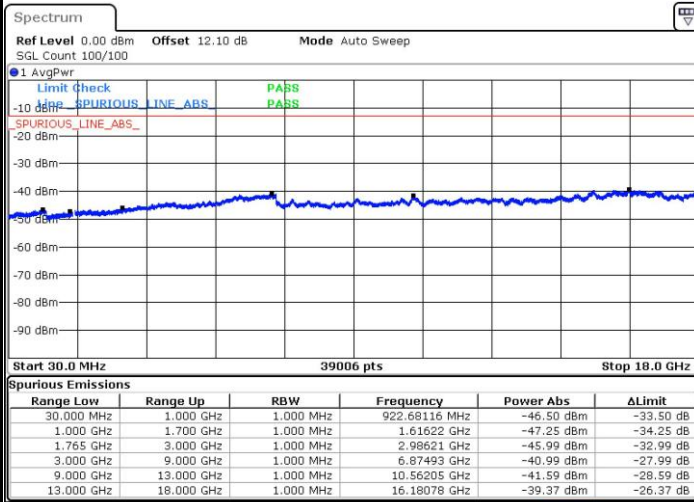


Date: 1.MAR.2019 00:23:08



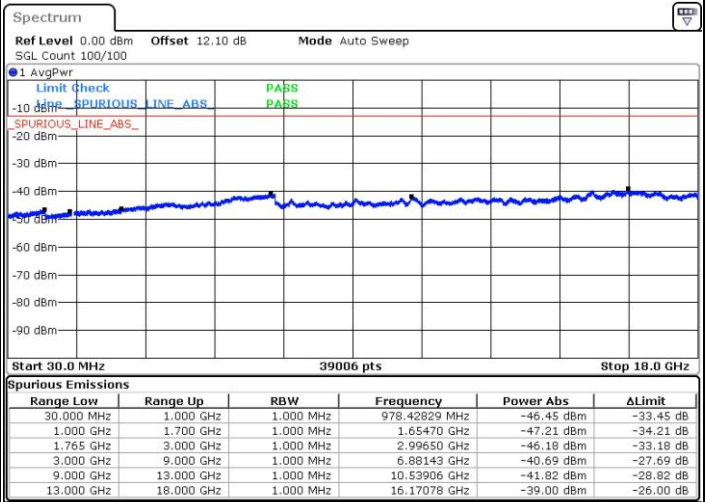
## LTE Band 4 / 5MHz

## Highest Channel / QPSK



Date: 1.MAR.2019 00:28:55

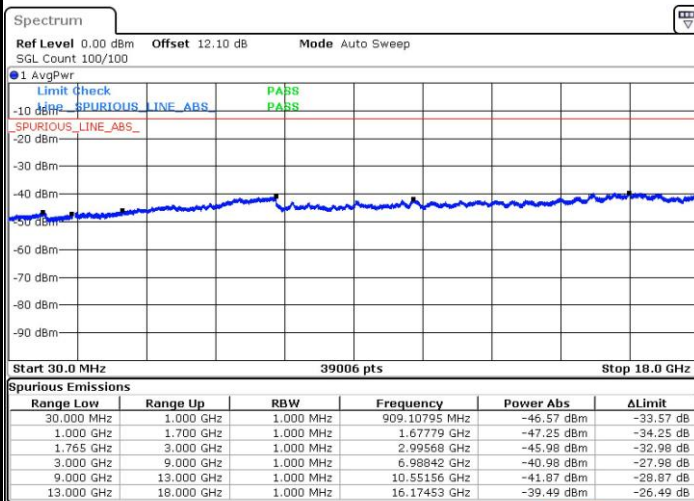
## Highest Channel / 16QAM



Date: 1.MAR.2019 00:29:56

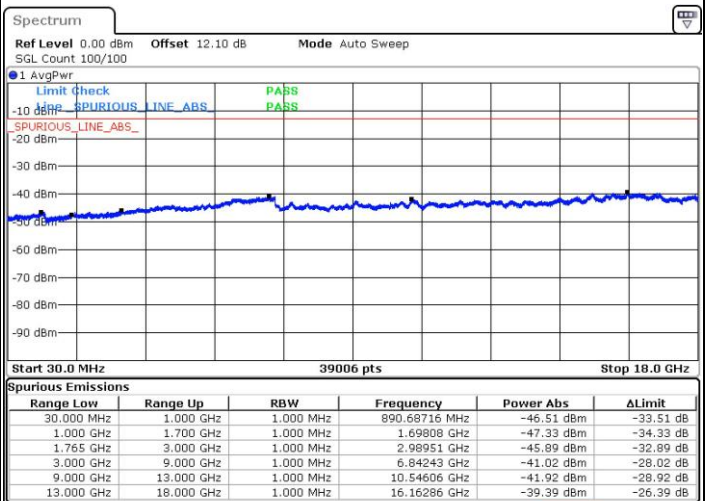
## LTE Band 4 / 10MHz

## Lowest Channel / QPSK



Date: 1.MAR.2019 00:35:43

## Lowest Channel / 16QAM

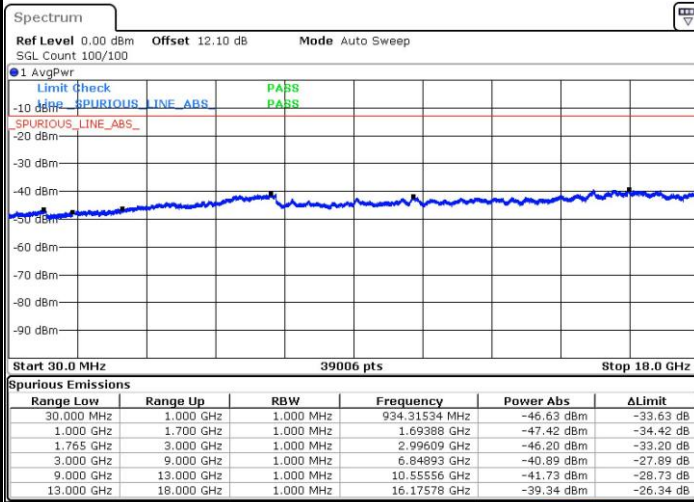


Date: 1.MAR.2019 00:36:44



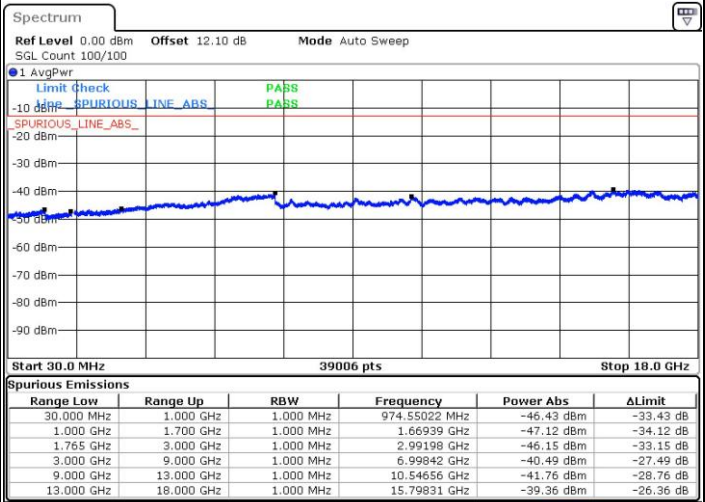
## LTE Band 4 / 10MHz

## Middle Channel / QPSK



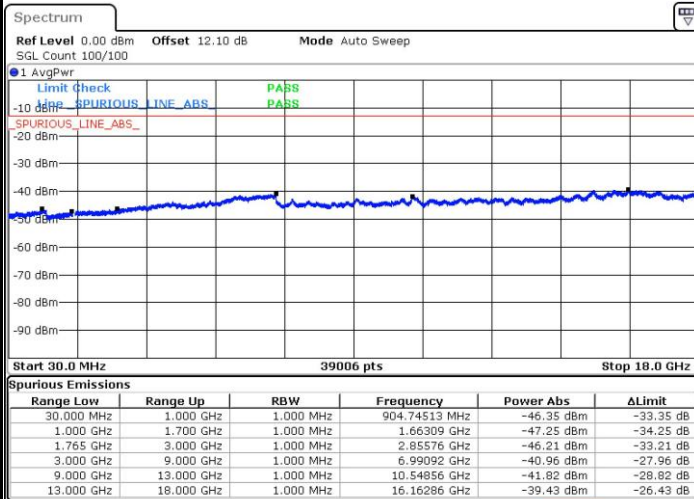
Date: 1.MAR.2019 00:38:31

## Middle Channel / 16QAM



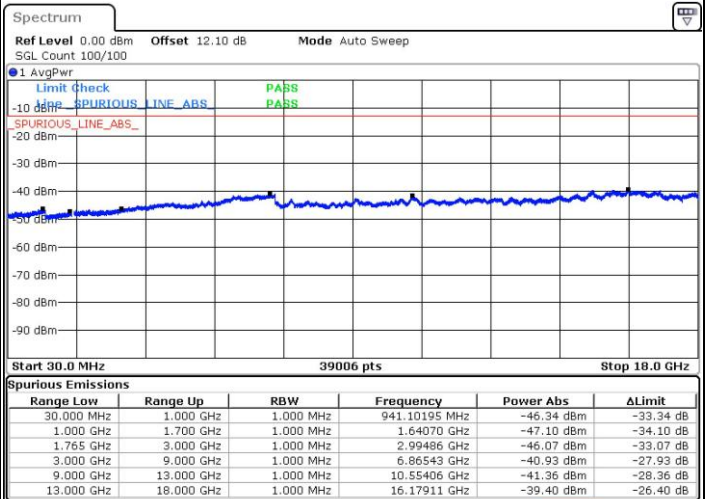
Date: 1.MAR.2019 00:39:31

## Highest Channel / QPSK



Date: 1.MAR.2019 00:45:18

## Highest Channel / 16QAM

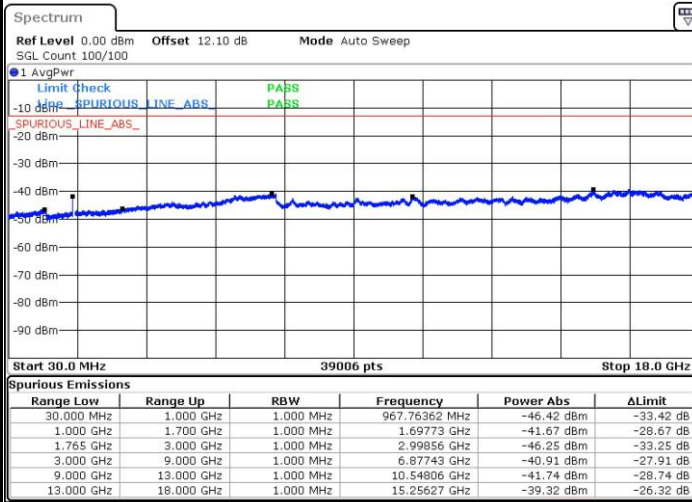


Date: 1.MAR.2019 00:46:20



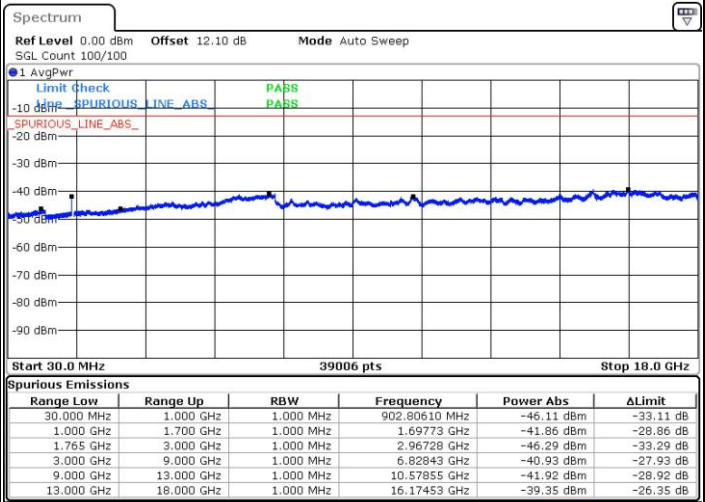
## LTE Band 4 / 15MHz

## Lowest Channel / QPSK



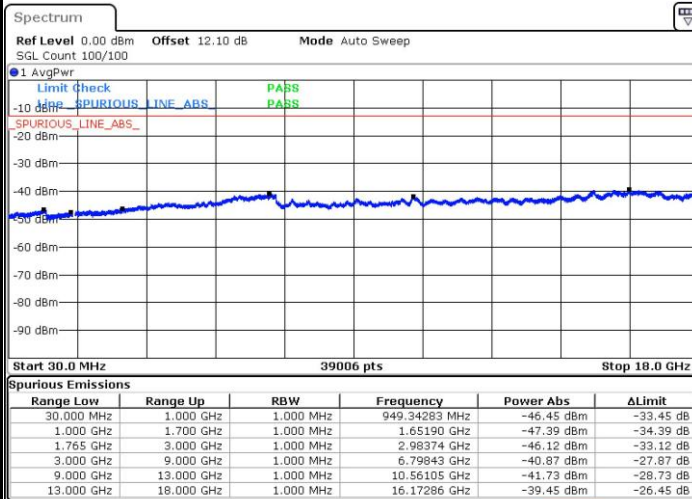
Date: 1.MAR.2019 00:52:07

## Lowest Channel / 16QAM



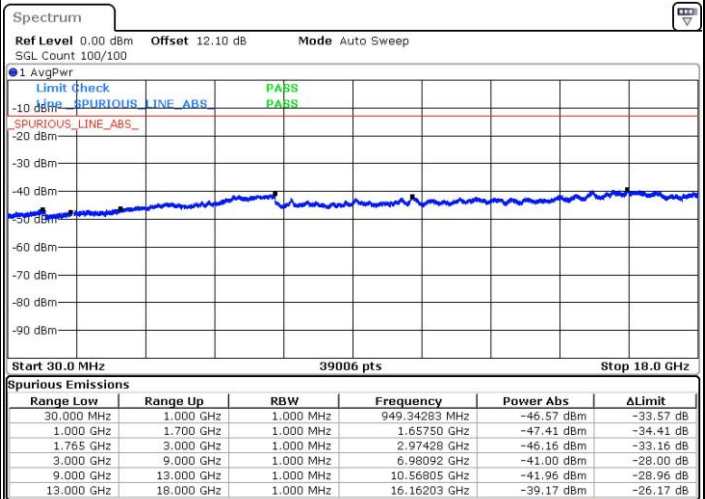
Date: 1.MAR.2019 00:53:08

## Middle Channel / QPSK



Date: 1.MAR.2019 00:54:55

## Middle Channel / 16QAM

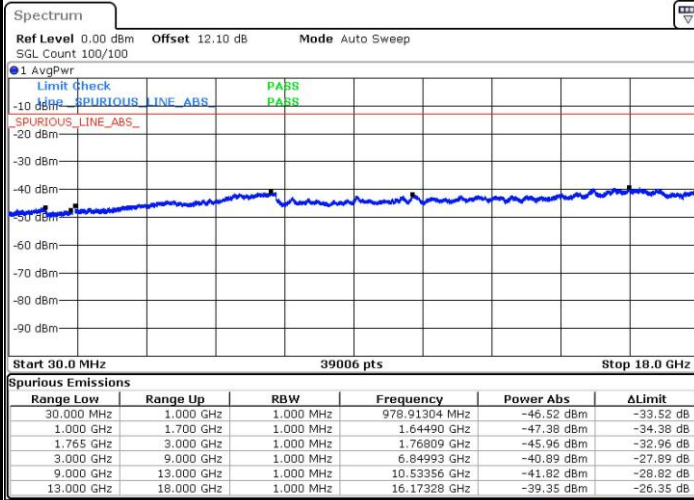


Date: 1.MAR.2019 00:55:56



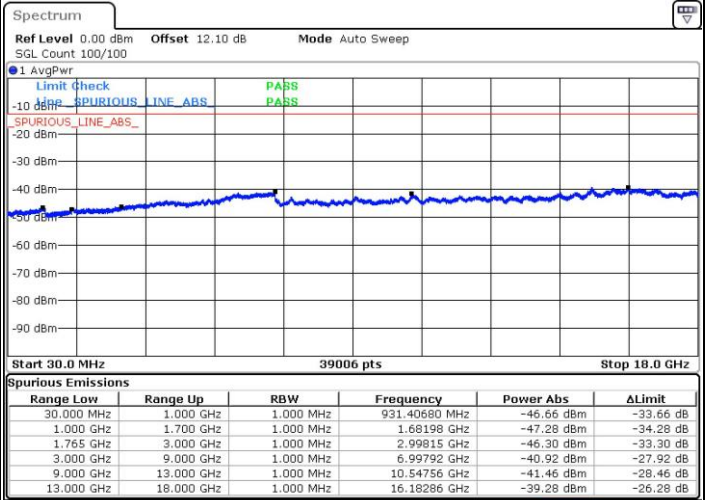
## LTE Band 4 / 15MHz

## Highest Channel / QPSK



Date: 1.MAR.2019 01:01:43

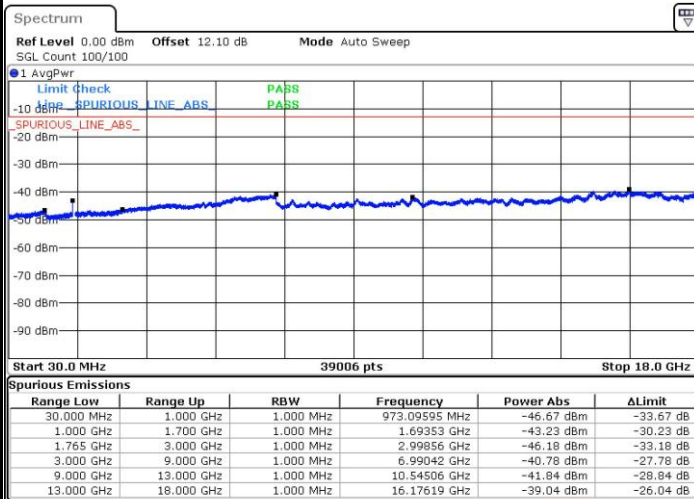
## Highest Channel / 16QAM



Date: 1.MAR.2019 01:02:44

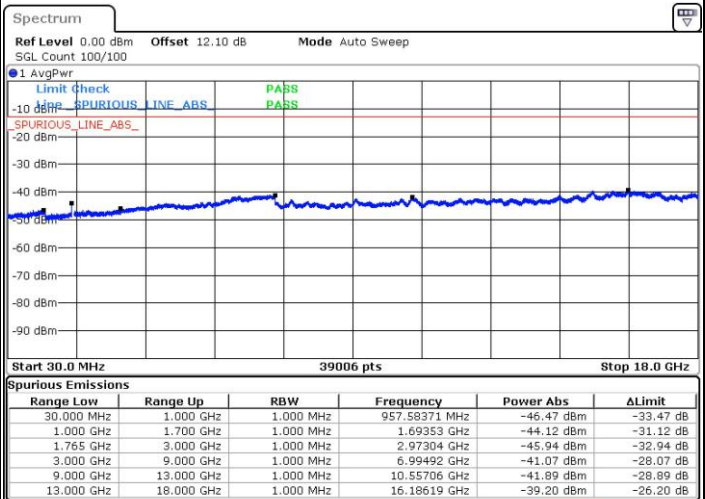
## LTE Band 4 / 20MHz

## Lowest Channel / QPSK



Date: 1.MAR.2019 01:08:33

## Lowest Channel / 16QAM

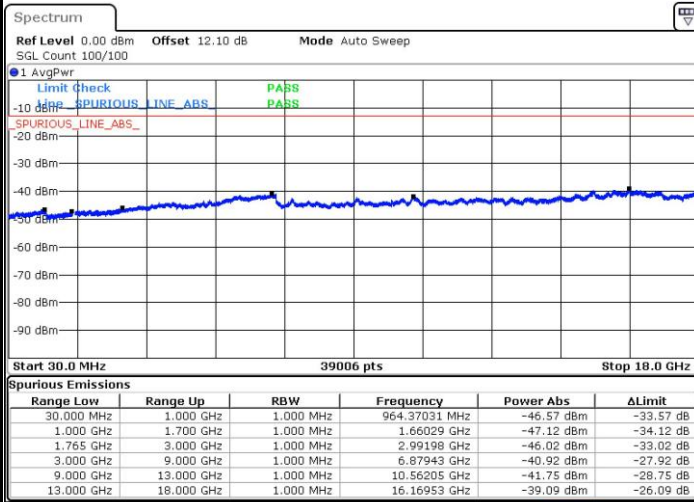


Date: 1.MAR.2019 01:09:34



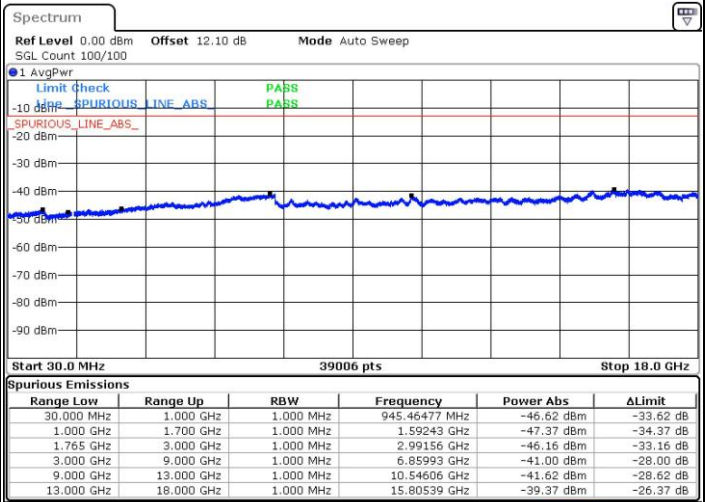
## LTE Band 4 / 20MHz

## Middle Channel / QPSK



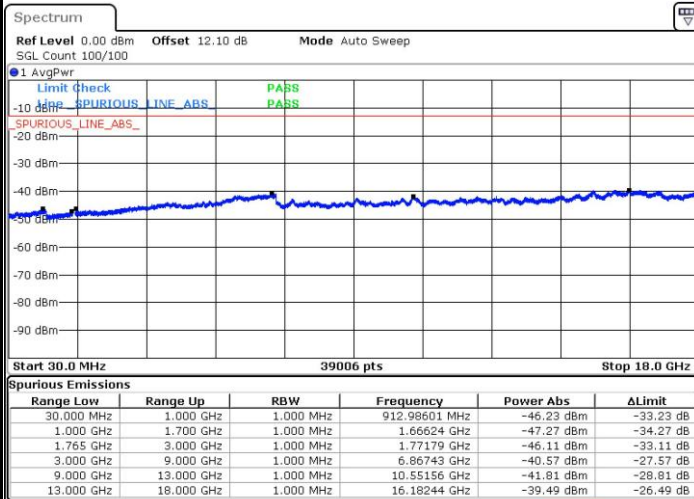
Date: 1.MAR.2019 01:11:21

## Middle Channel / 16QAM



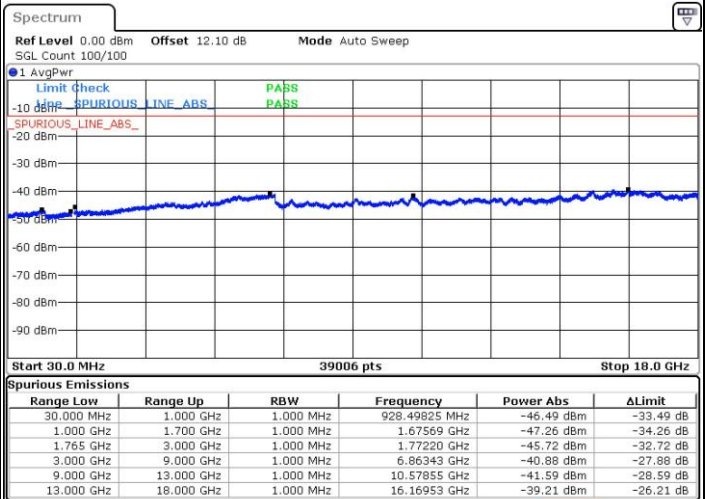
Date: 1.MAR.2019 01:12:22

## Highest Channel / QPSK



Date: 1.MAR.2019 01:18:14

## Highest Channel / 16QAM

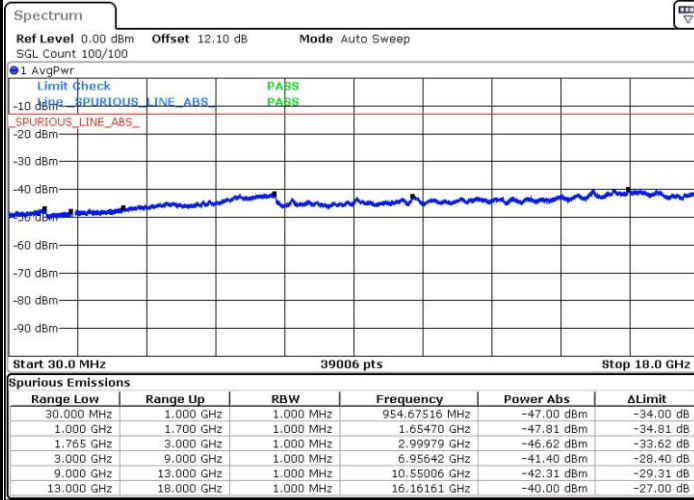


Date: 1.MAR.2019 01:19:15



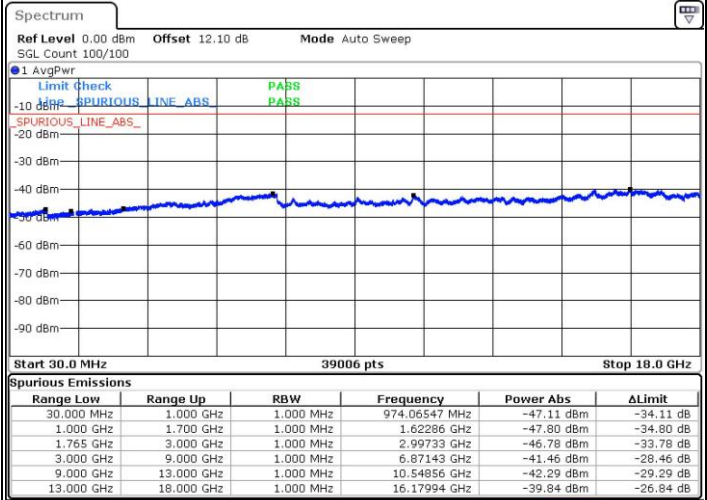
## LTE Band 4 / 1.4MHz

## Lowest Channel / 64QAM



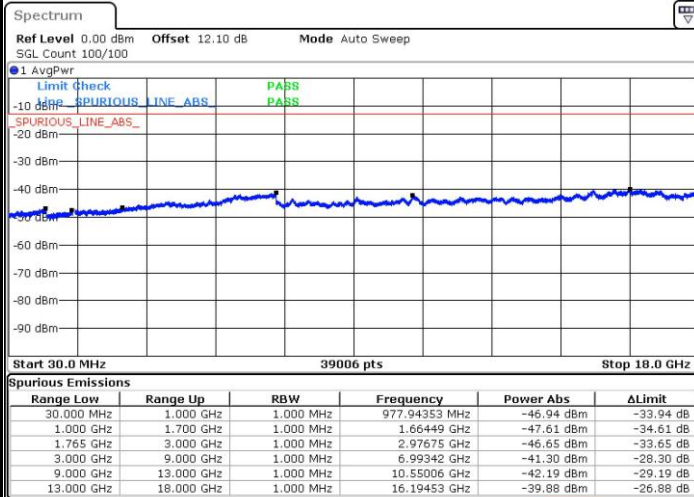
Date: 1.MAR.2019 20:10:12

## Middle Channel / 64QAM



Date: 1.MAR.2019 20:11:35

## Highest Channel / 64QAM

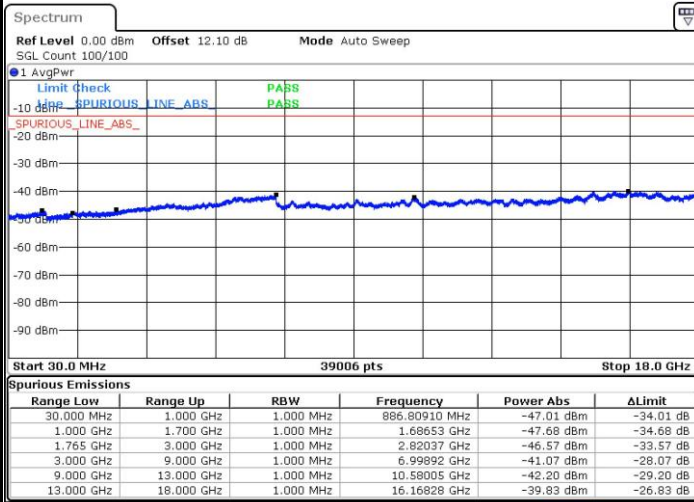


Date: 1.MAR.2019 20:15:00



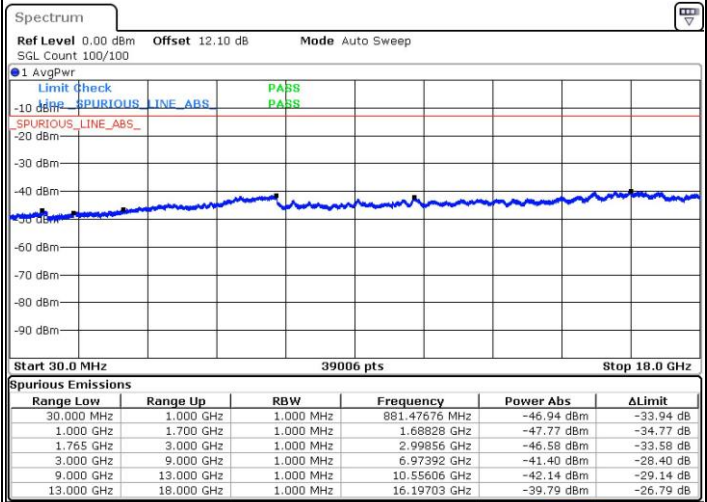
## LTE Band 4 / 3MHz

## Lowest Channel / 64QAM



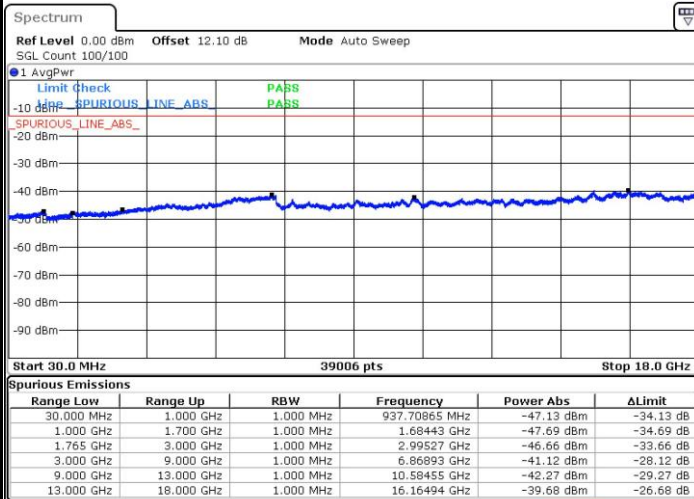
Date: 1.MAR.2019 19:13:26

## Middle Channel / 64QAM



Date: 1.MAR.2019 19:14:48

## Highest Channel / 64QAM

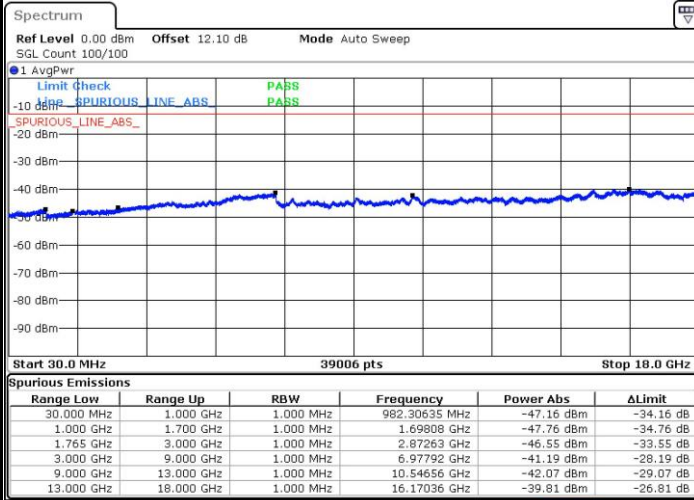


Date: 1.MAR.2019 19:18:07



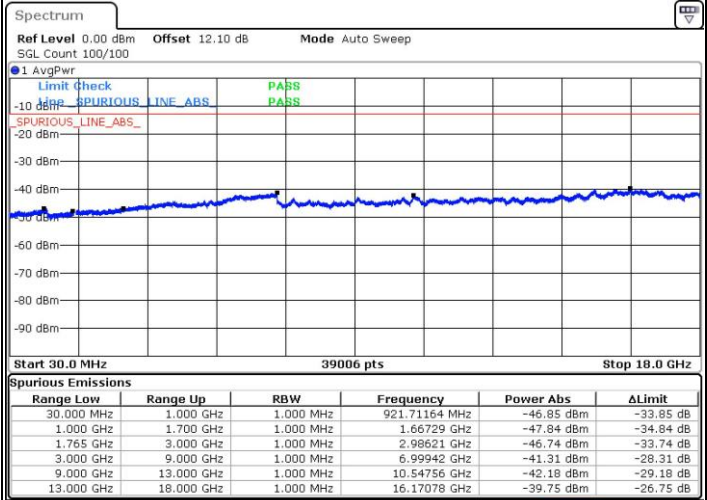
## LTE Band 4 / 5MHz

## Lowest Channel / 64QAM



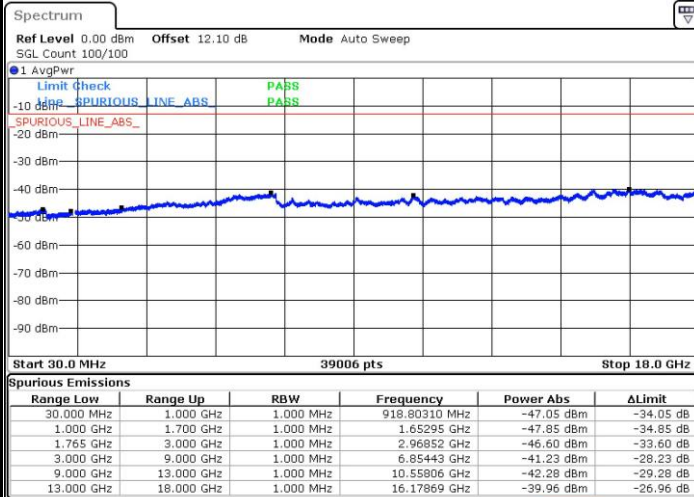
Date: 1.MAR.2019 19:21:26

## Middle Channel / 64QAM



Date: 1.MAR.2019 19:22:48

## Highest Channel / 64QAM

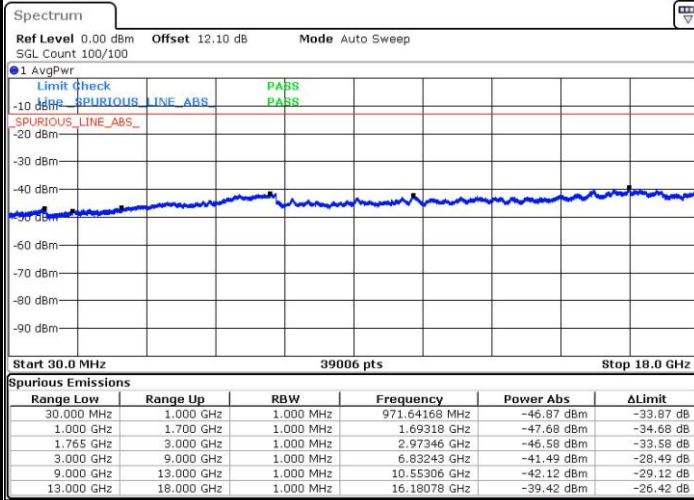


Date: 1.MAR.2019 19:26:08



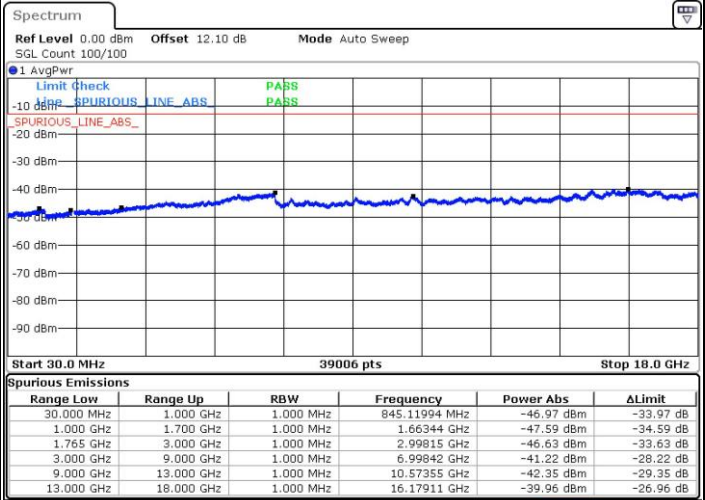
## LTE Band 4 / 10MHz

## Lowest Channel / 64QAM



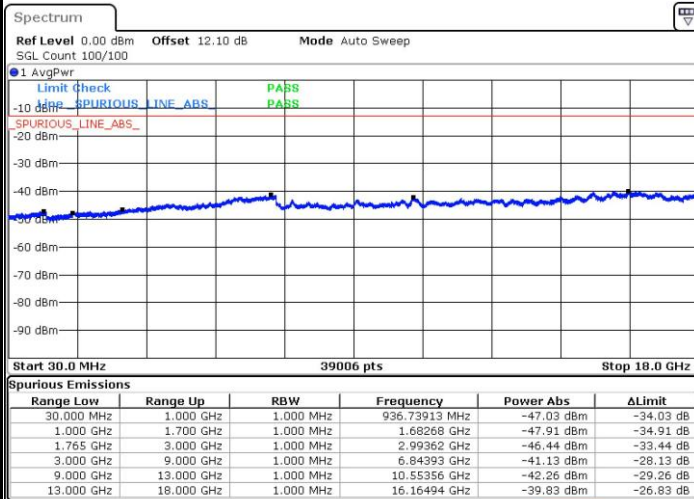
Date: 1.MAR.2019 19:29:27

## Middle Channel / 64QAM



Date: 1.MAR.2019 19:30:49

## Highest Channel / 64QAM

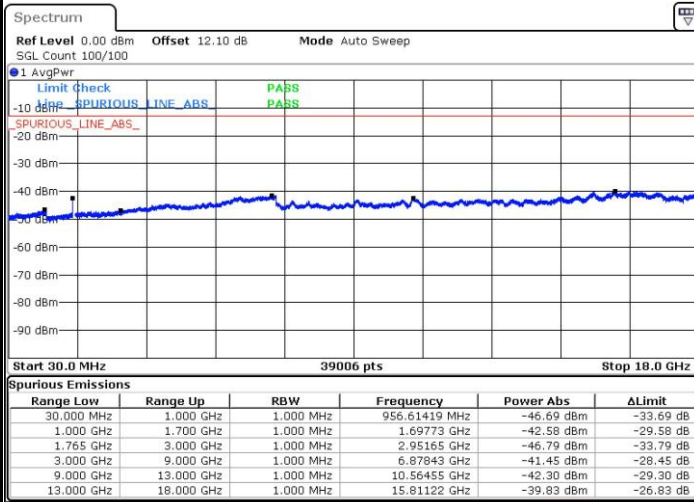


Date: 1.MAR.2019 19:34:09



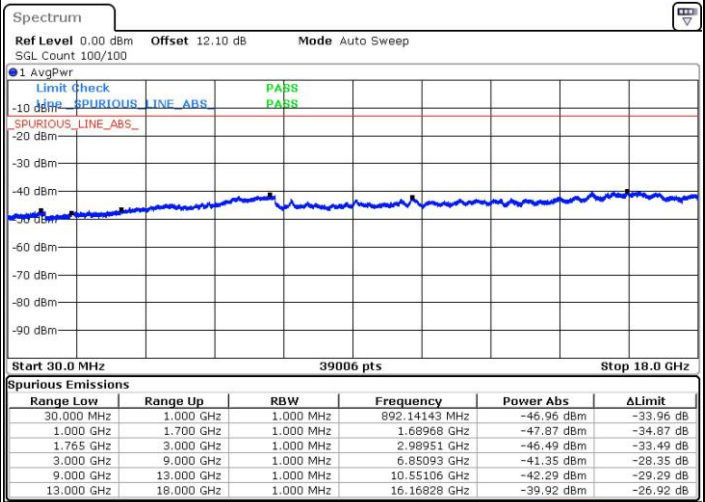
## LTE Band 4 / 15MHz

## Lowest Channel / 64QAM



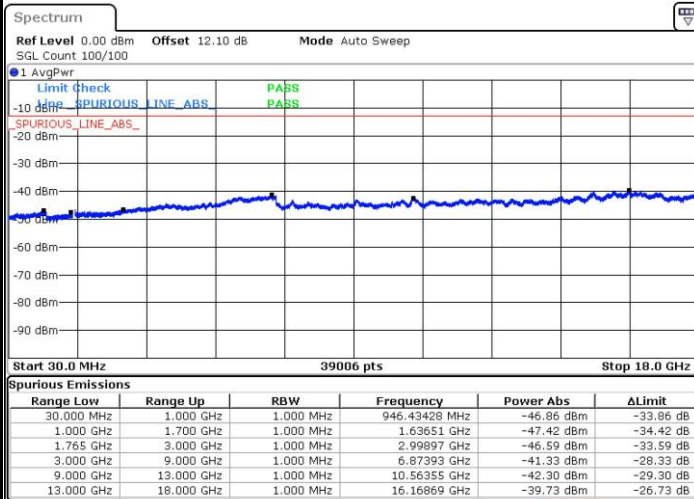
Date: 1.MAR.2019 19:54:04

## Middle Channel / 64QAM



Date: 1.MAR.2019 19:55:27

## Highest Channel / 64QAM

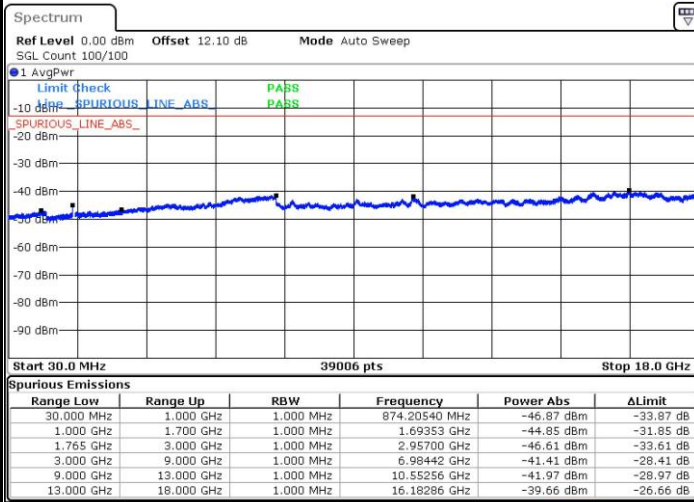


Date: 1.MAR.2019 19:58:46



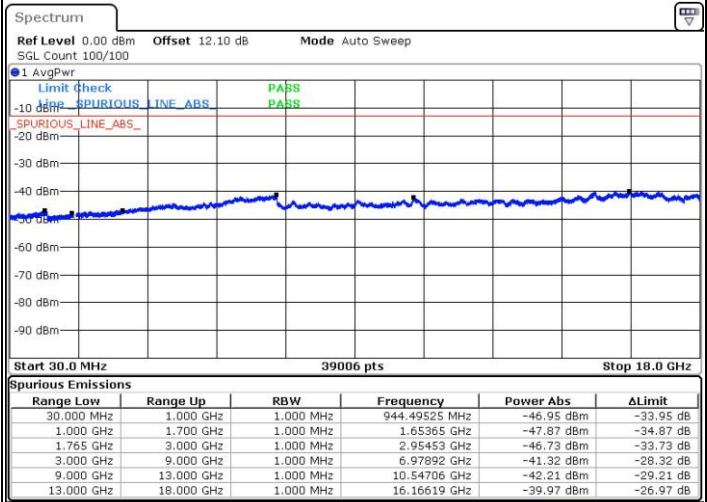
## LTE Band 4 / 20MHz

## Lowest Channel / 64QAM



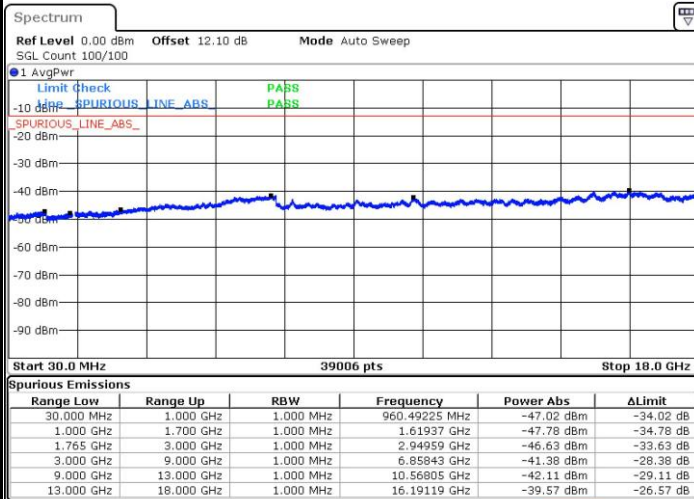
Date: 1.MAR.2019 20:02:05

## Middle Channel / 64QAM



Date: 1.MAR.2019 20:03:28

## Highest Channel / 64QAM



Date: 1.MAR.2019 20:06:47

## Frequency Stability

| Test Conditions  |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0021                             | PASS    |
| 40               | Normal Voltage    | 0.0014                             |         |
| 30               | Normal Voltage    | 0.0012                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0006                             |         |
| 0                | Normal Voltage    | 0.0019                             |         |
| -10              | Normal Voltage    | 0.0013                             |         |
| -20              | Normal Voltage    | 0.0024                             |         |
| -30              | Normal Voltage    | 0.0021                             |         |
| 20               | Maximum Voltage   | 0.0028                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0020                             |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## LTE Band 12

### Peak-to-Average Ratio

| Mode       | LTE Band 12 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.54                | 4.43    | 4.14  | 5.45    | PASS        |
| Middle CH  | 3.39                | 4.43    | 4.12  | 5.48    |             |
| Highest CH | 3.71                | 4.43    | 4.00  | 5.45    |             |
| Mode       | LTE Band 12 / 10MHz |         |       |         |             |
| Mod.       | 64QAM               |         |       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB |       |         | Result      |
| Lowest CH  | 5.07                | 6.12    | -     | -       | PASS        |
| Middle CH  | 4.99                | 6.17    | -     | -       |             |
| Highest CH | 5.01                | 6.00    | -     | -       |             |

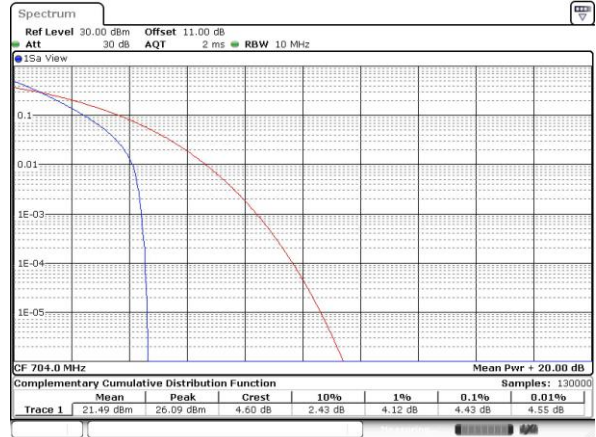


## LTE Band 12 / 10MHz / QPSK

## Lowest Channel / 1RB



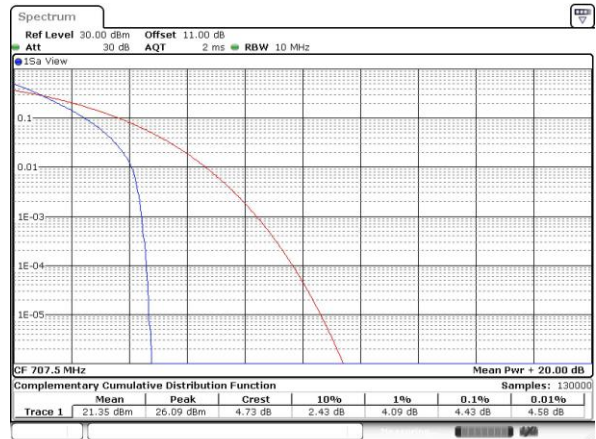
## Lowest Channel / Full RB



## Middle Channel / 1RB



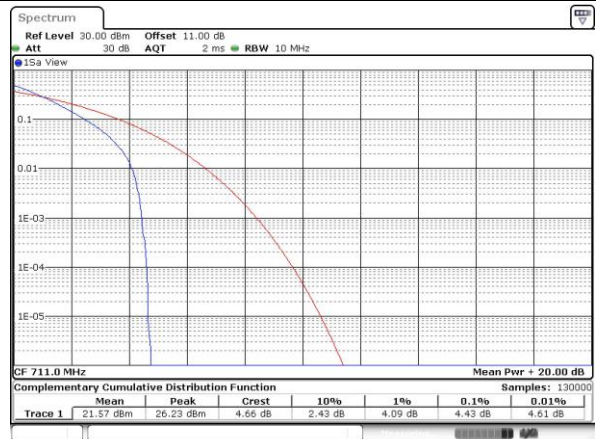
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





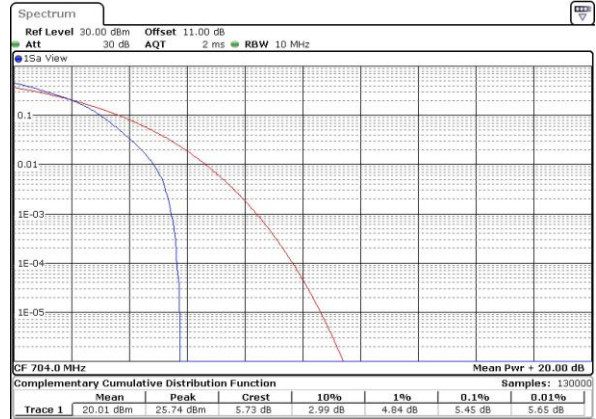
## LTE Band 12 / 10MHz / 16QAM

## Lowest Channel / 1RB



Date: 28 FEB 2019 23:52:58

## Lowest Channel / Full RB



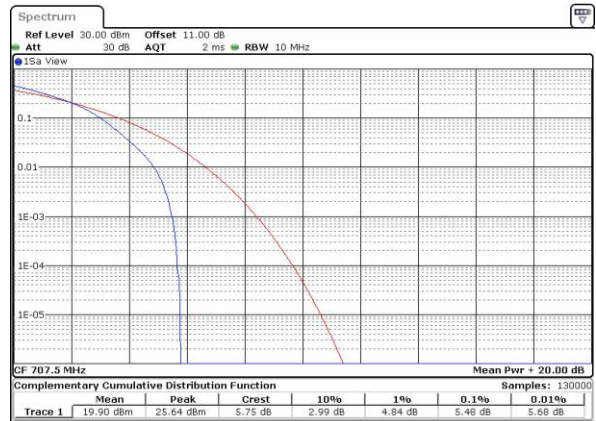
Date: 28 FEB 2019 23:52:48

## Middle Channel / 1RB



Date: 28 FEB 2019 23:53:09

## Middle Channel / Full RB



Date: 28 FEB 2019 23:53:19

## Highest Channel / 1RB



Date: 28 FEB 2019 23:53:40

## Highest Channel / Full RB

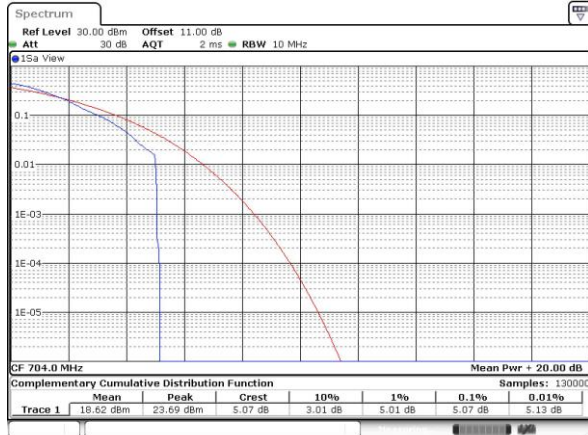


Date: 28 FEB 2019 23:53:29

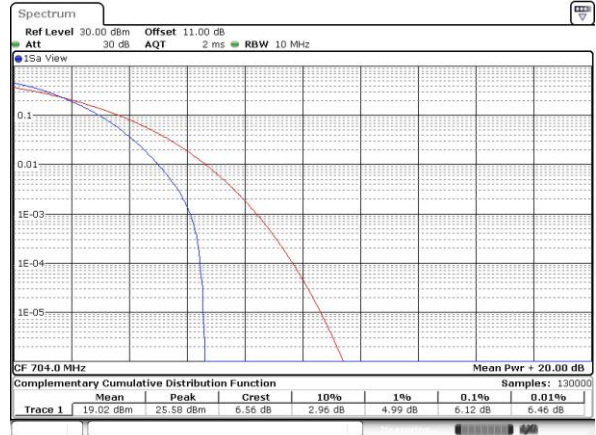


## LTE Band 12 / 10MHz / 64QAM

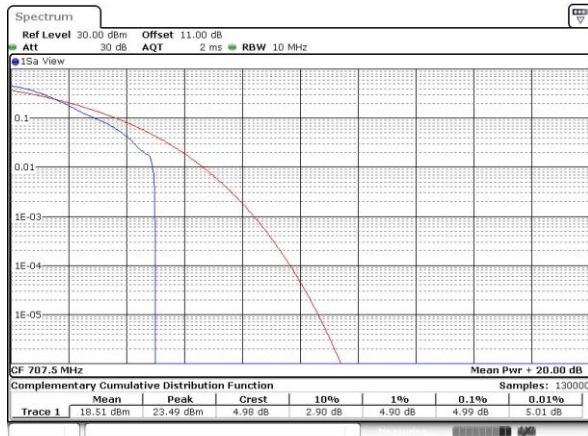
## Lowest Channel / 1RB



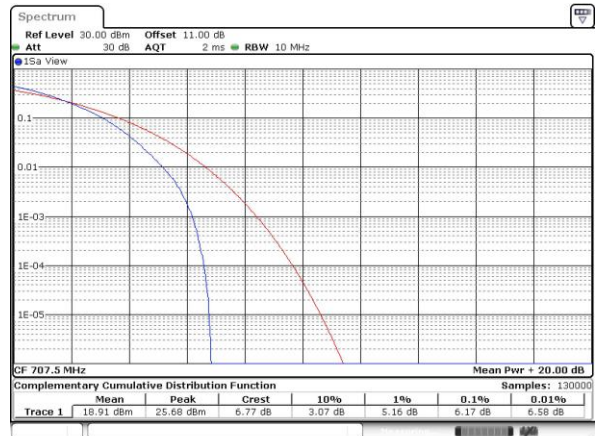
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB

