

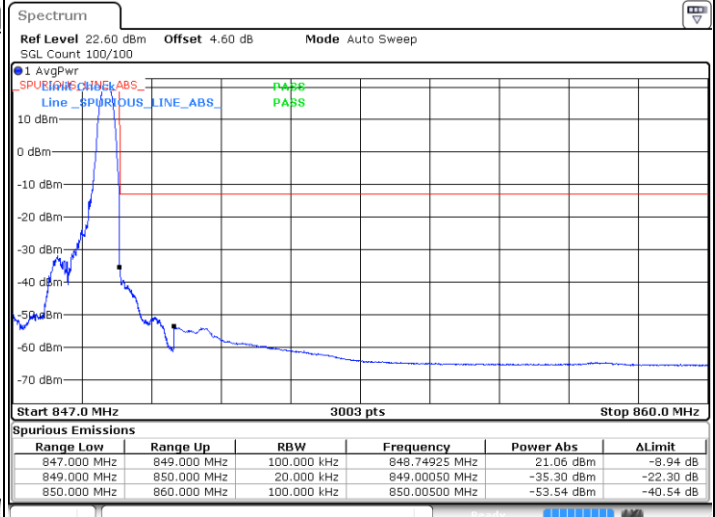


## LTE Band 5 / 1.4MHz / QPSK

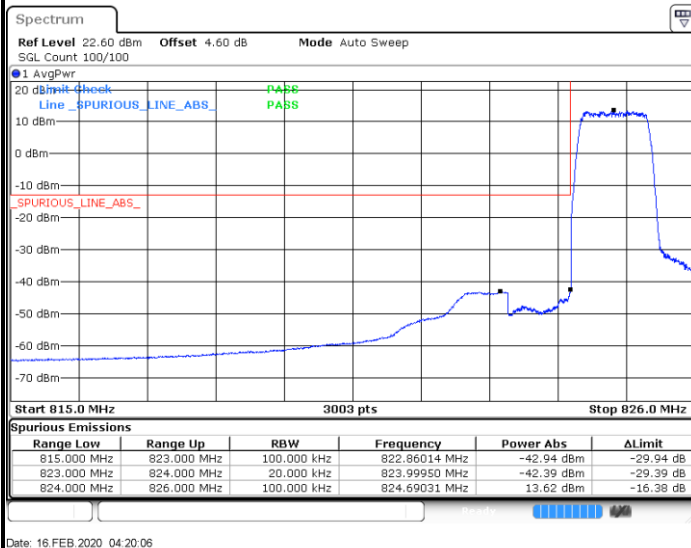
## Lowest Band Edge / 1RB



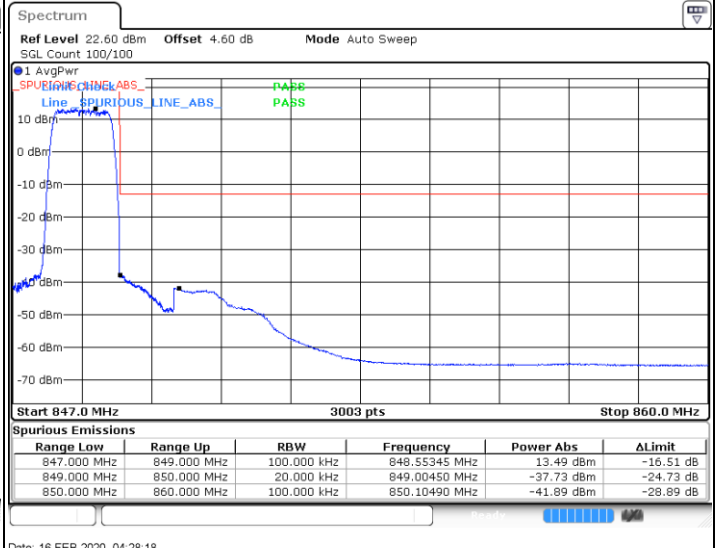
## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



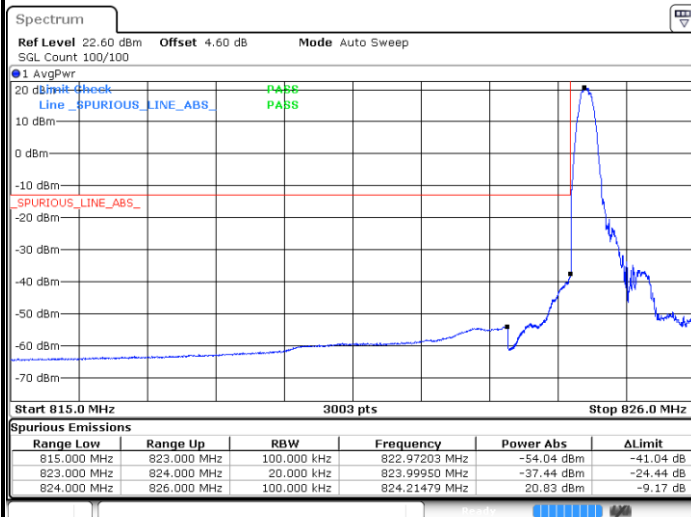
## Highest Band Edge / Full RB



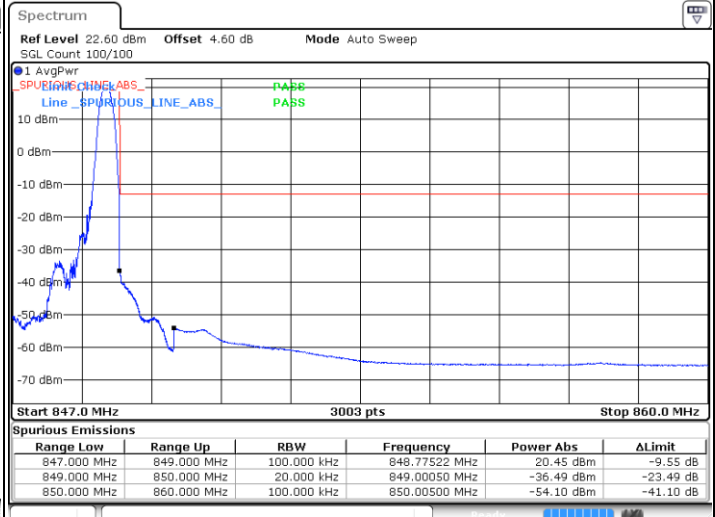


## LTE Band 5 / 1.4MHz / 16QAM

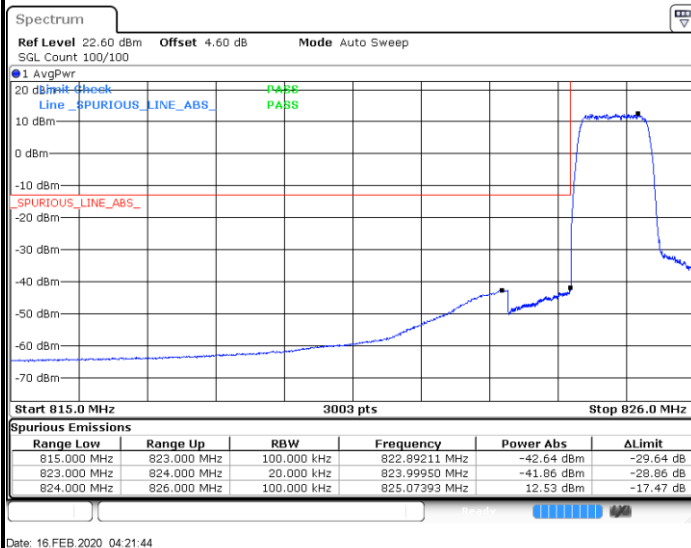
## Lowest Band Edge / 1 RB



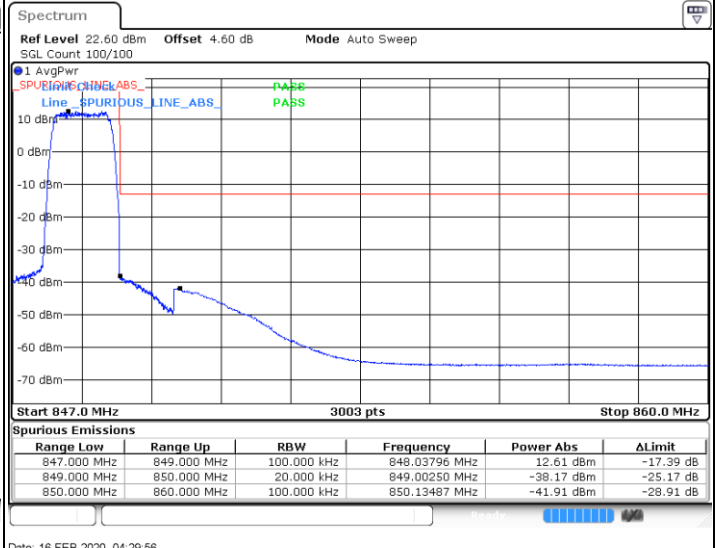
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



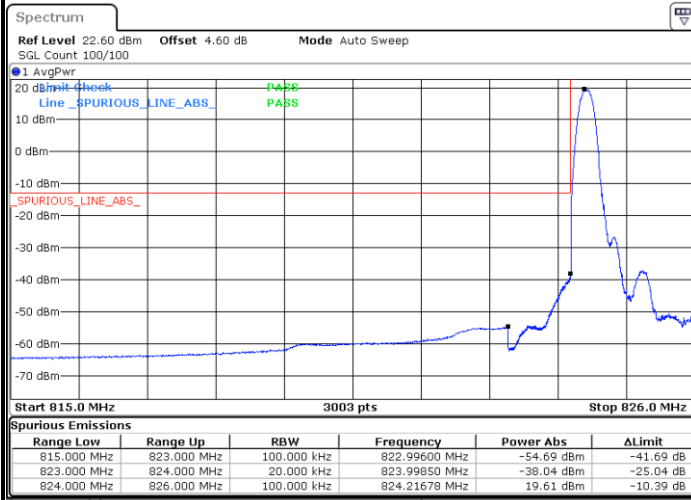
## Highest Band Edge / Full RB



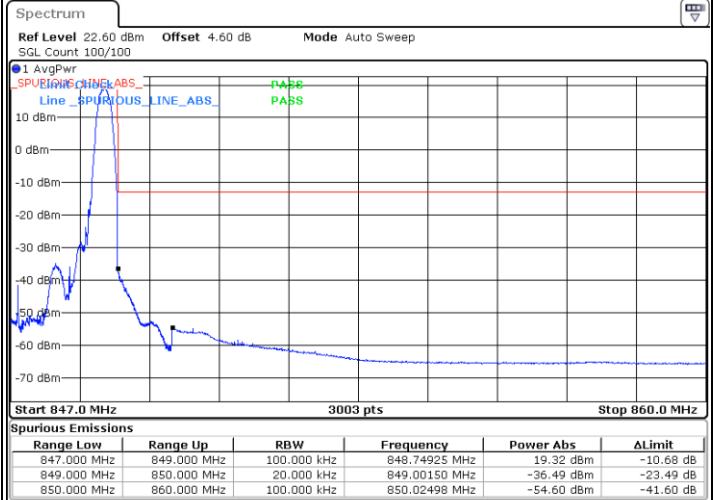


## LTE Band 5 / 1.4MHz / 64QAM

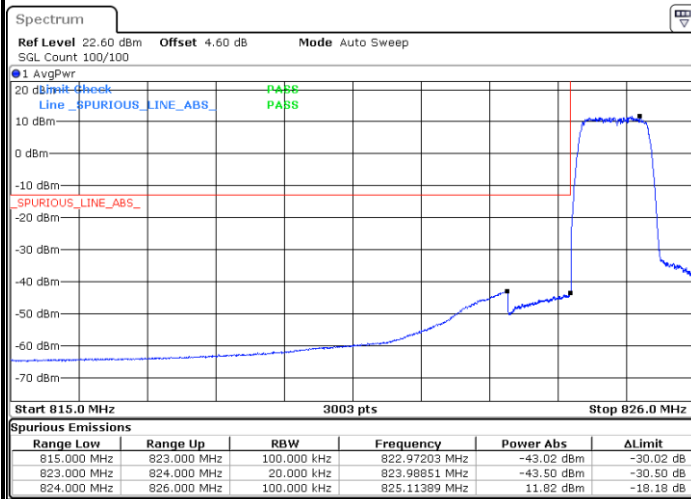
## Lowest Band Edge / 1 RB



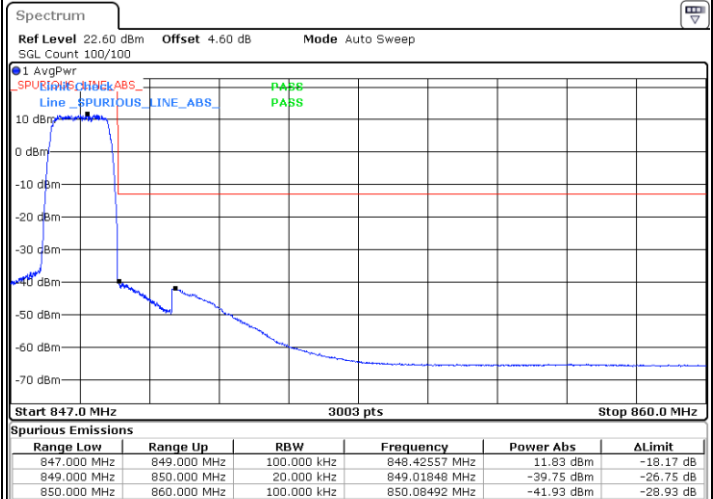
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



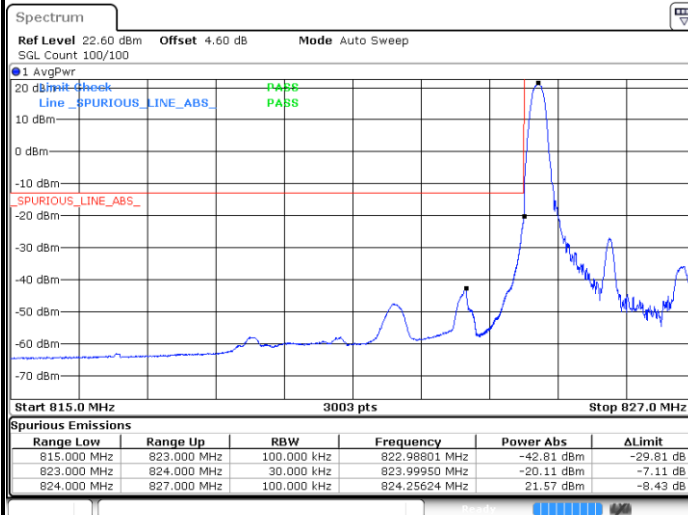
## Highest Band Edge / Full RB



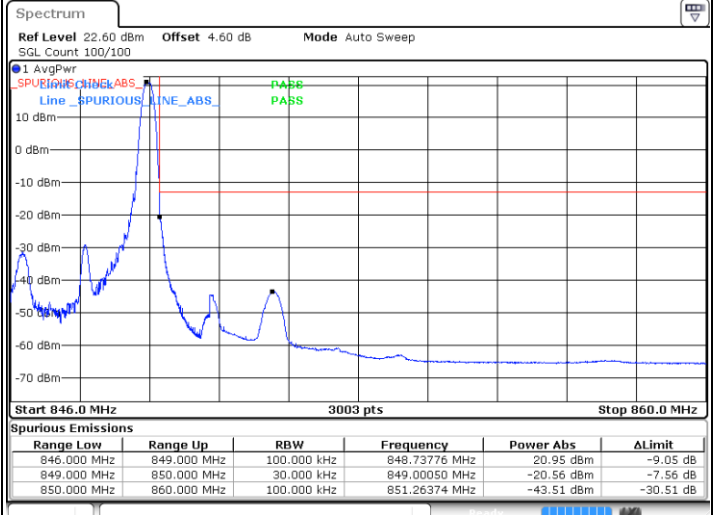


## LTE Band 5 / 3MHz / QPSK

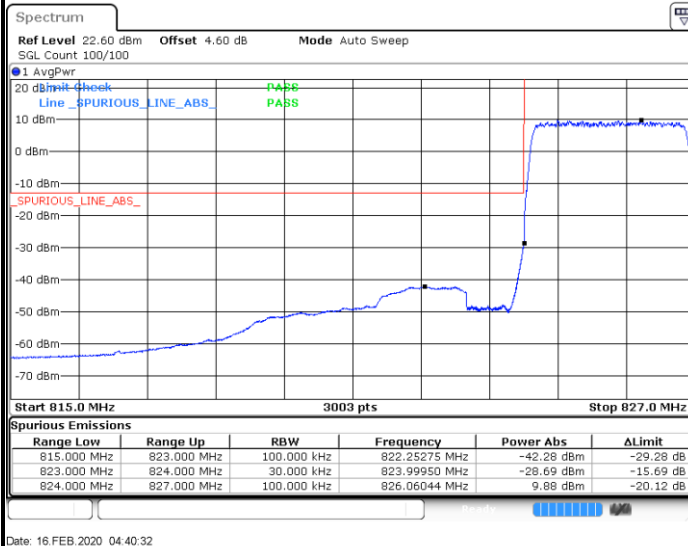
## Lowest Band Edge / 1RB



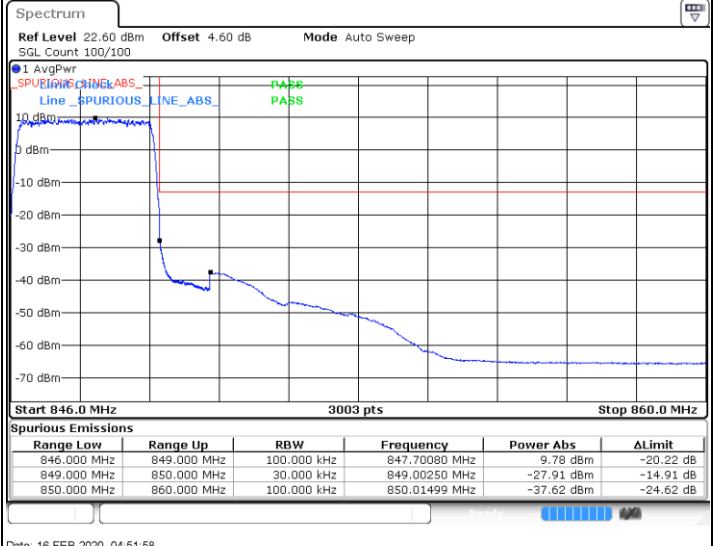
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



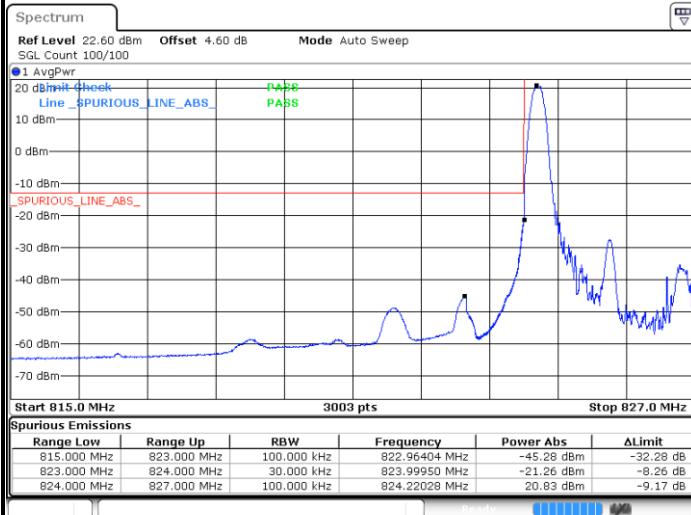
## Highest Band Edge / Full RB



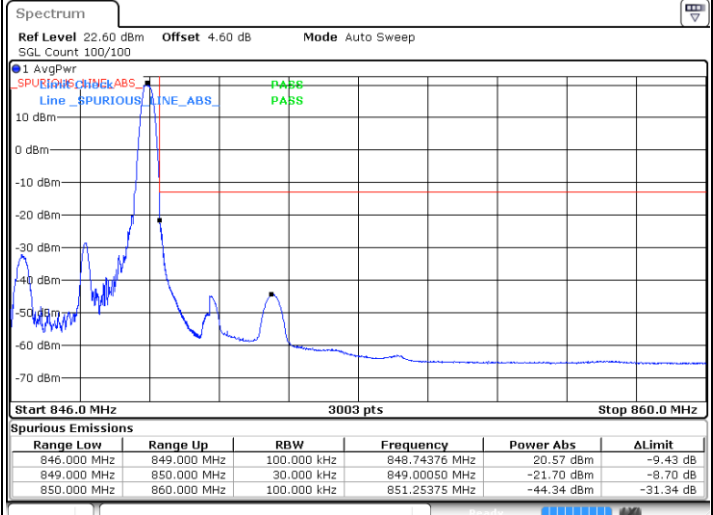


## LTE Band 5 / 3MHz / 16QAM

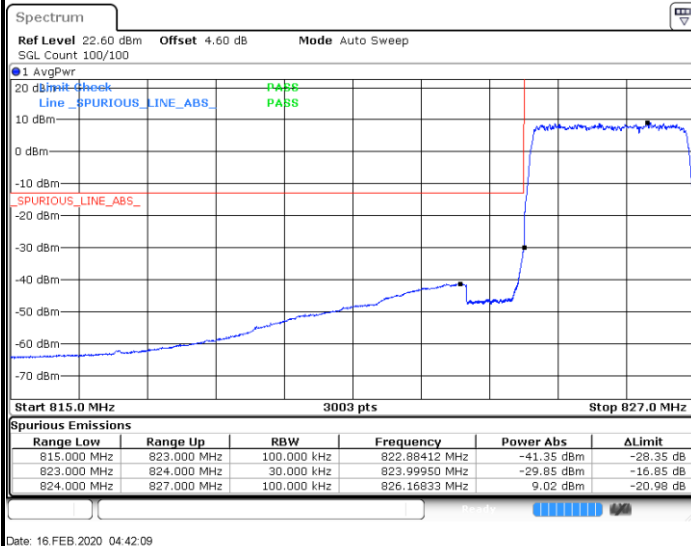
## Lowest Band Edge / 1 RB



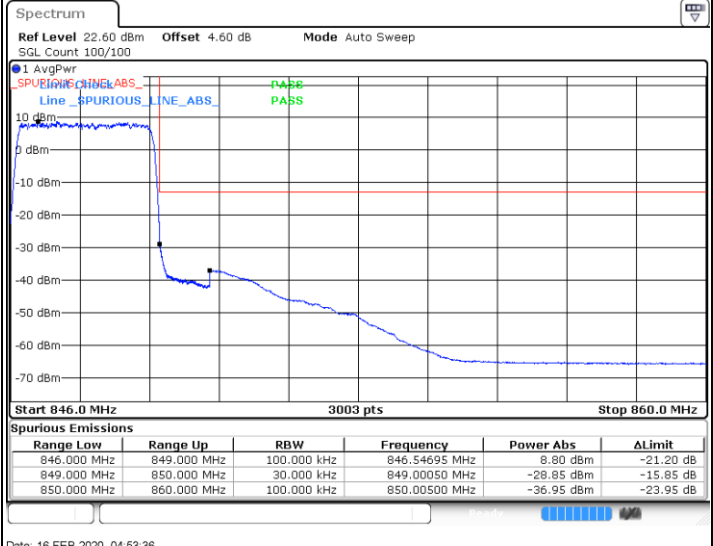
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



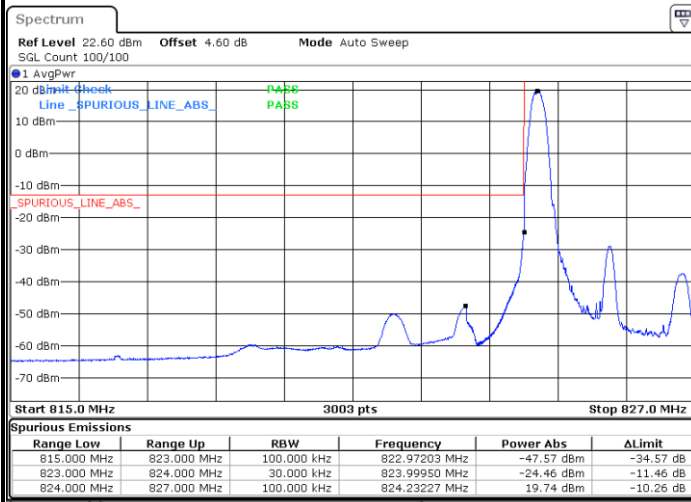
## Highest Band Edge / Full RB



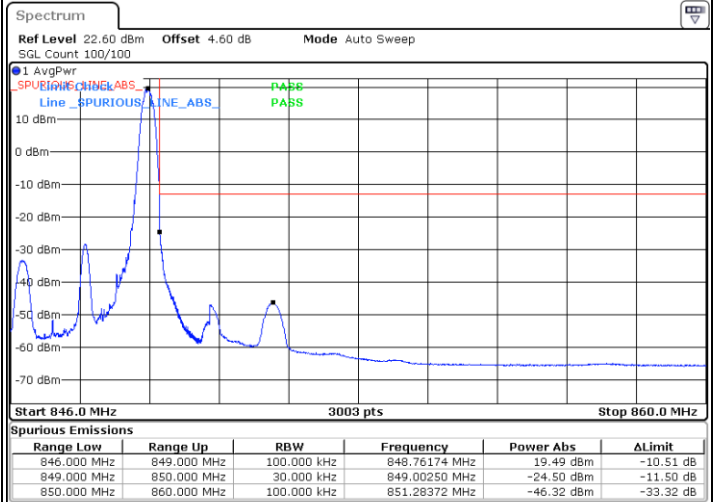


## LTE Band 5 / 3MHz / 64QAM

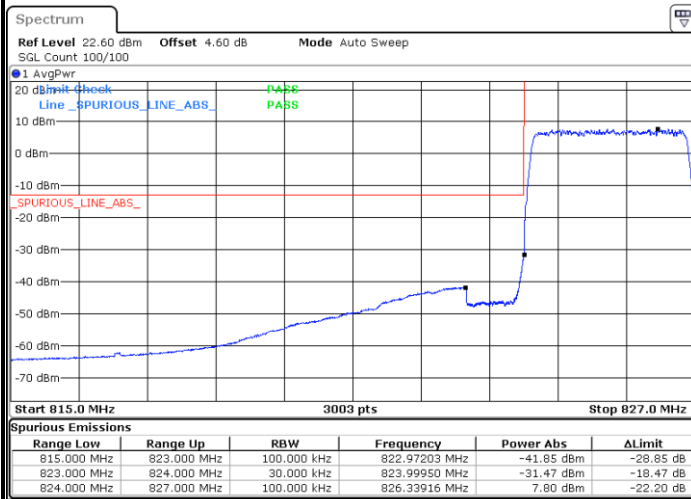
## Lowest Band Edge / 1 RB



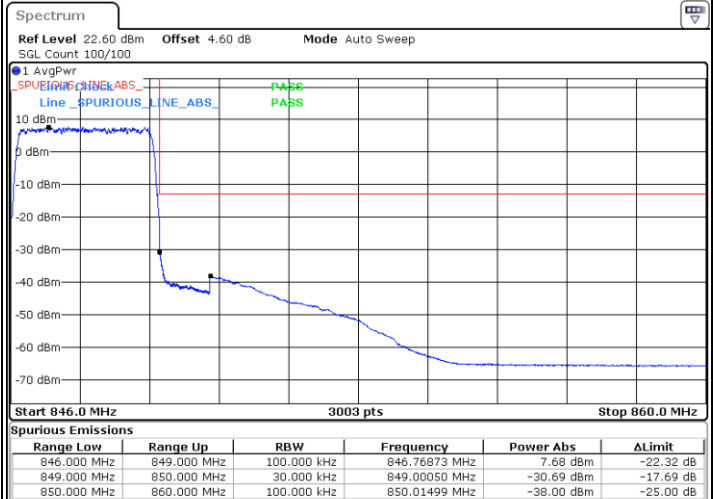
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



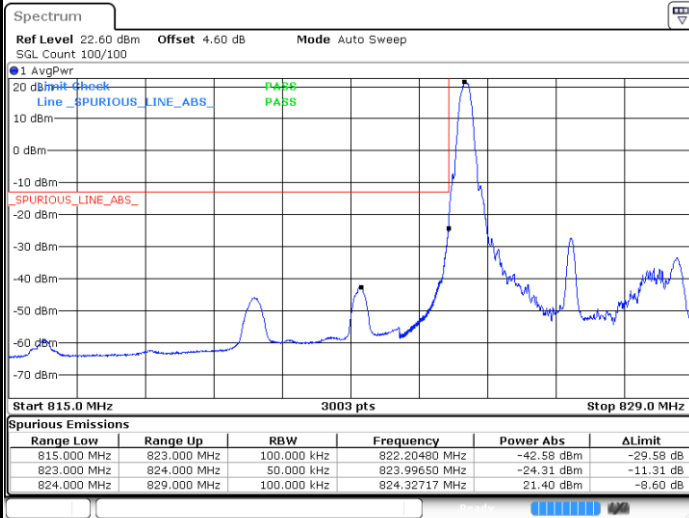
## Highest Band Edge / Full RB





## LTE Band 5 / 5MHz / QPSK

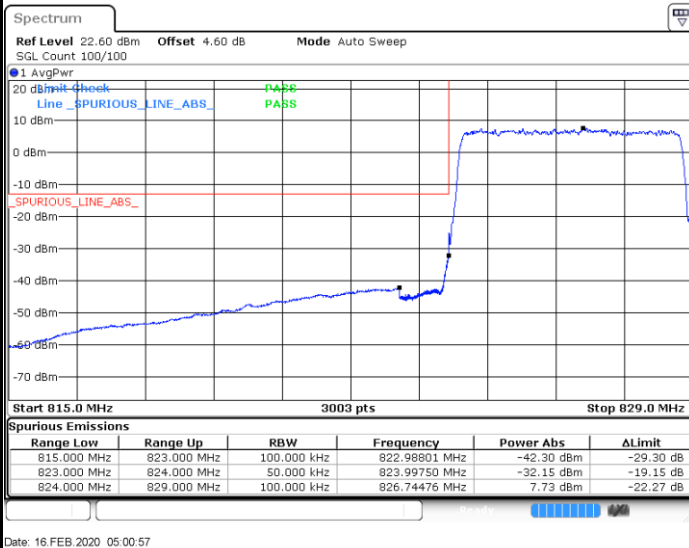
## Lowest Band Edge / 1 RB



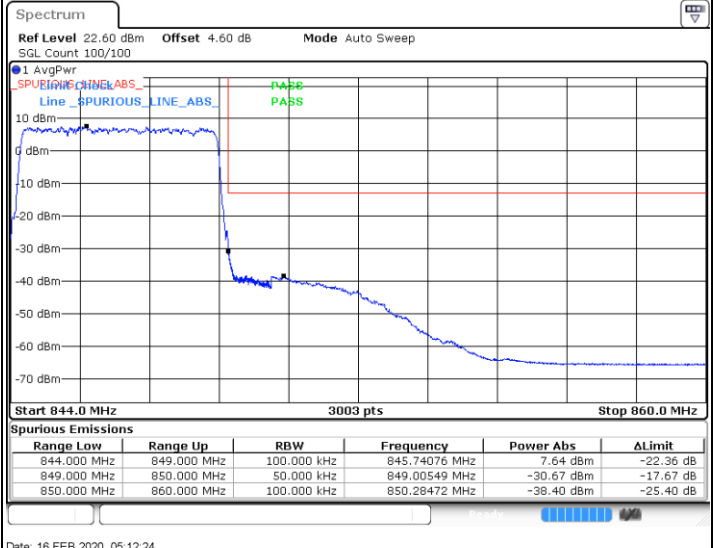
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



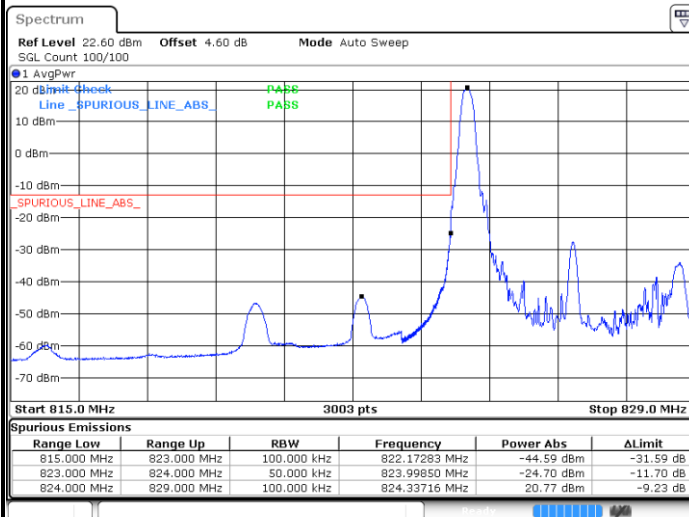
## Highest Band Edge / Full RB



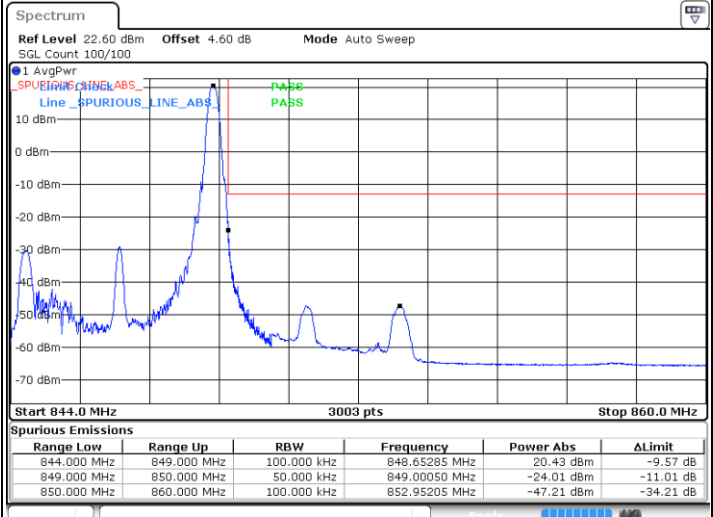


## LTE Band 5 / 5MHz / 16QAM

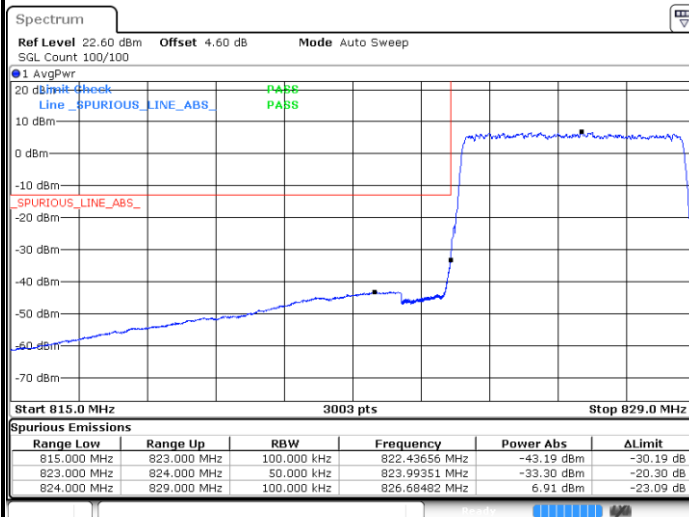
## Lowest Band Edge / 1RB



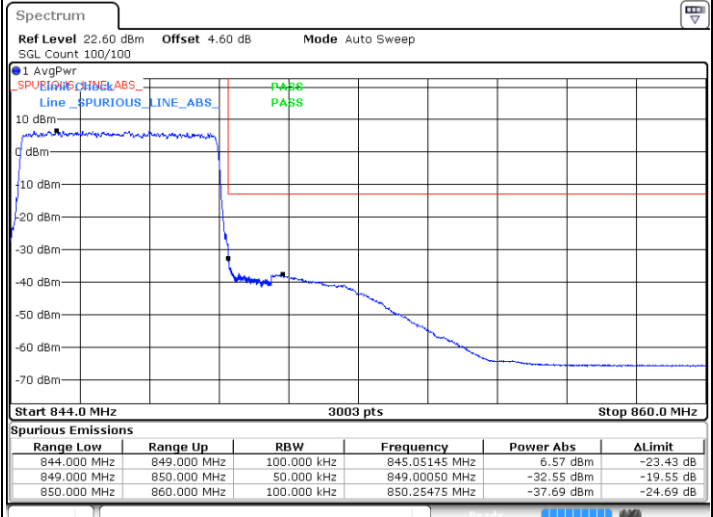
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



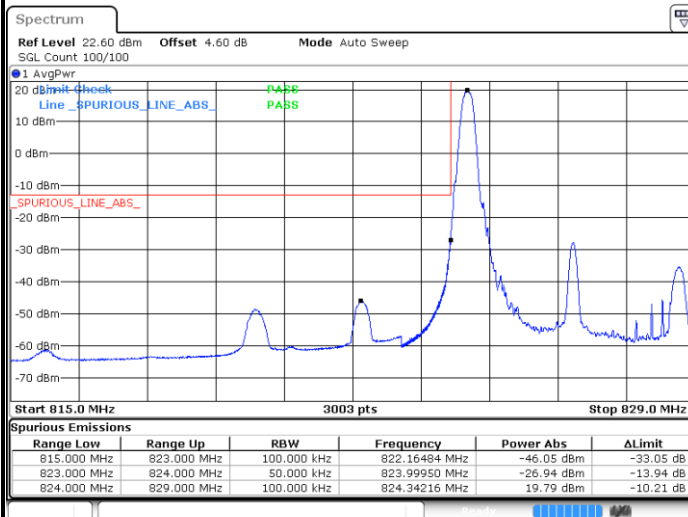
## Highest Band Edge / Full RB



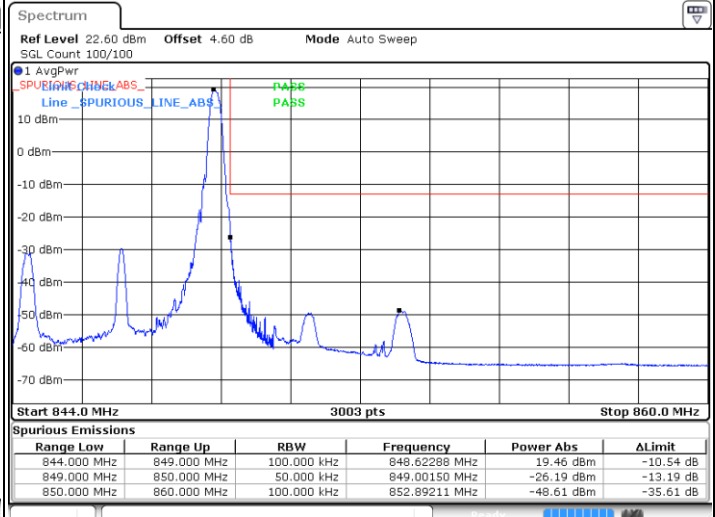


## LTE Band 5 / 5MHz / 64QAM

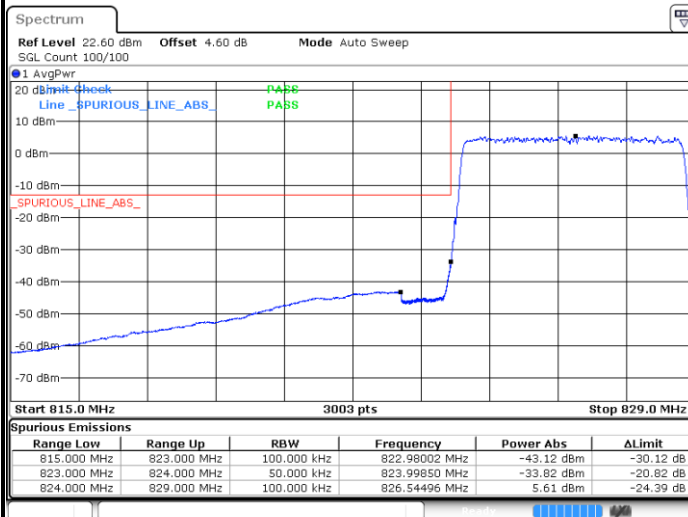
## Lowest Band Edge / 1RB



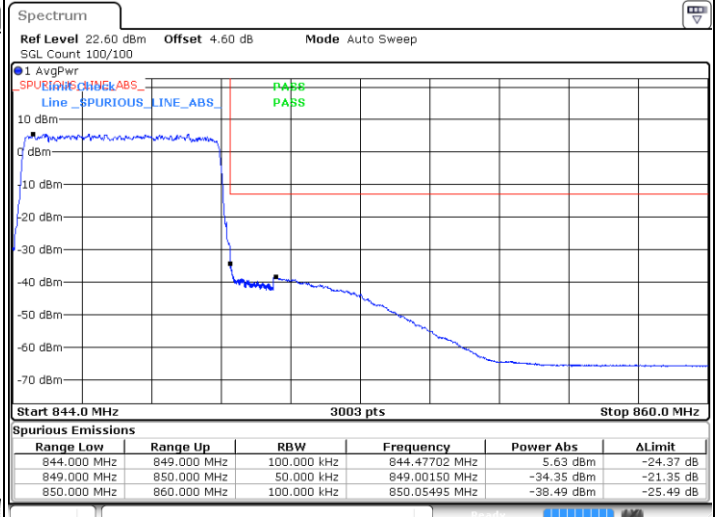
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



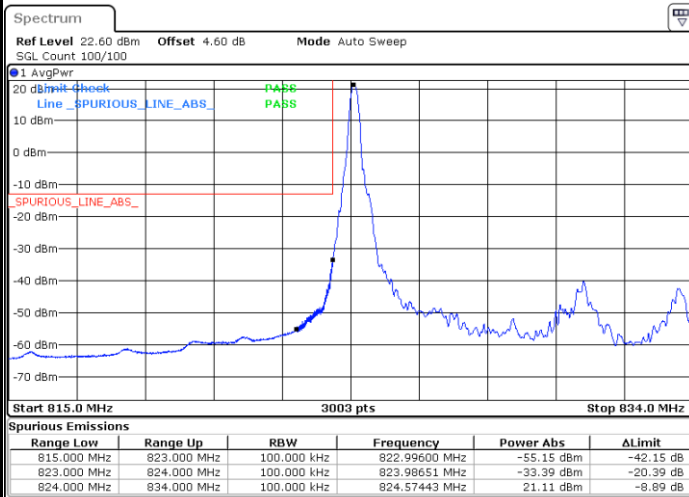
## Highest Band Edge / Full RB



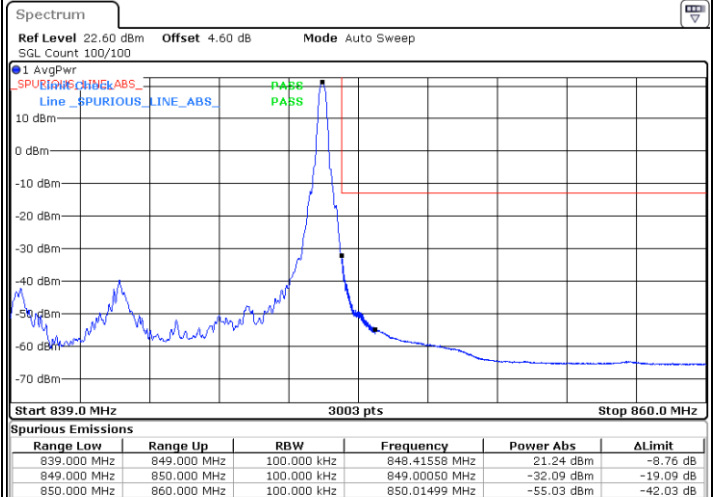


## LTE Band 5 / 10MHz / QPSK

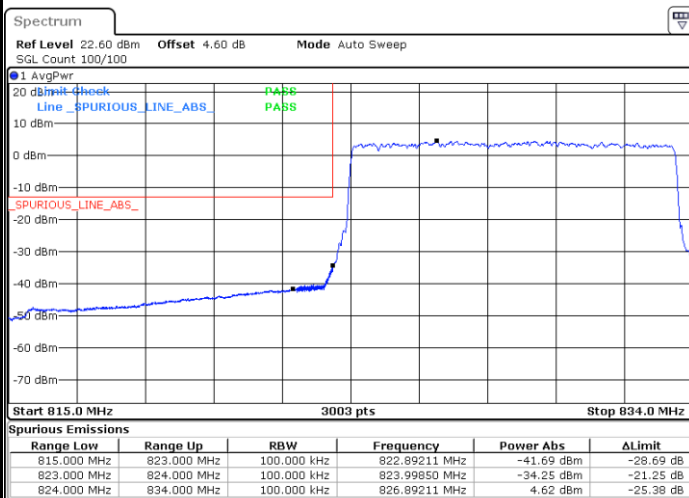
## Lowest Band Edge / 1 RB



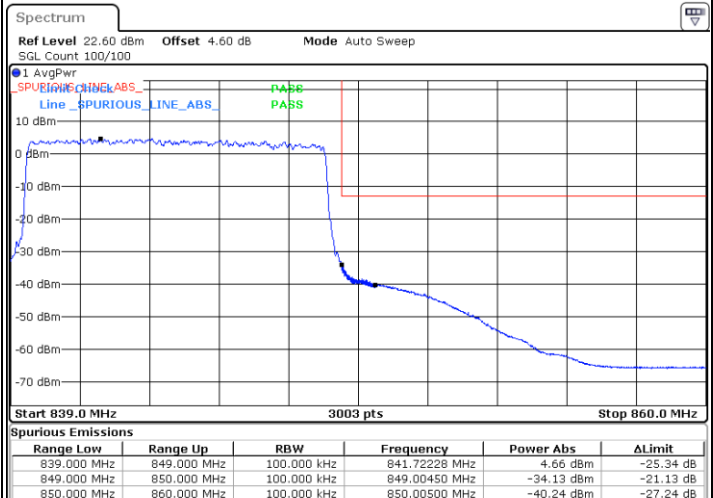
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



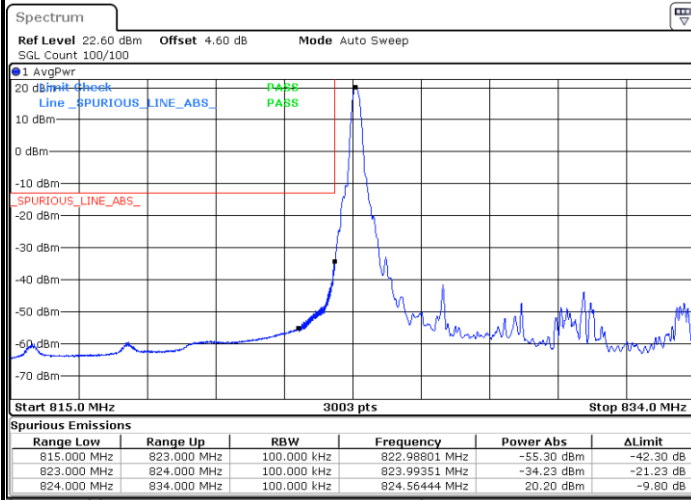
## Highest Band Edge / Full RB



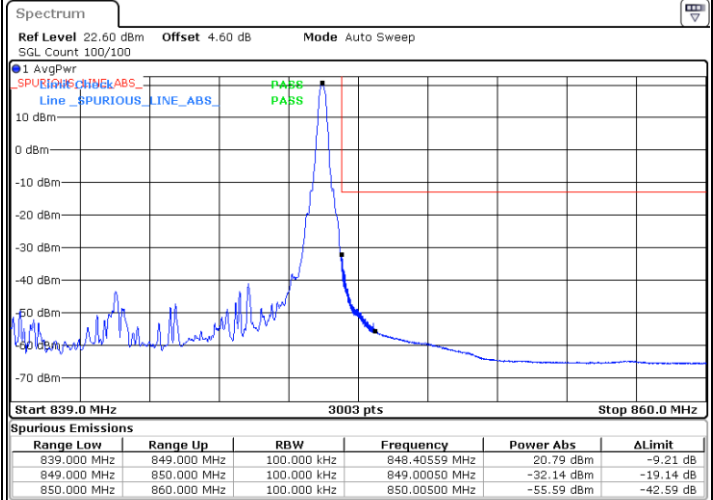


## LTE Band 5 / 10MHz / 16QAM

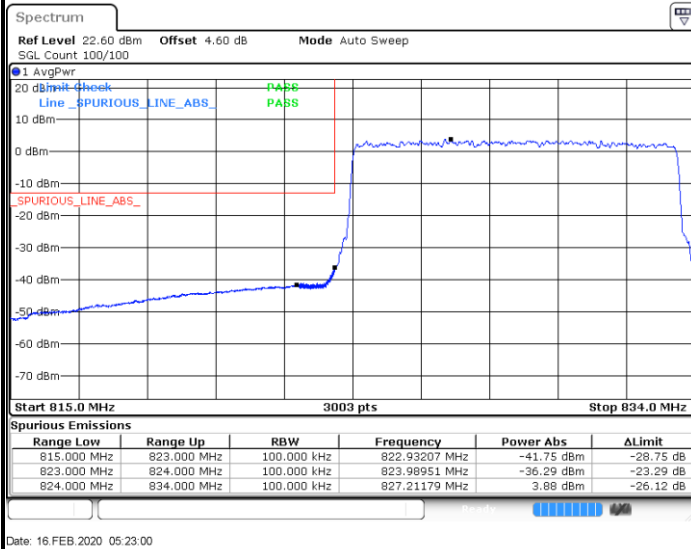
## Lowest Band Edge / 1 RB



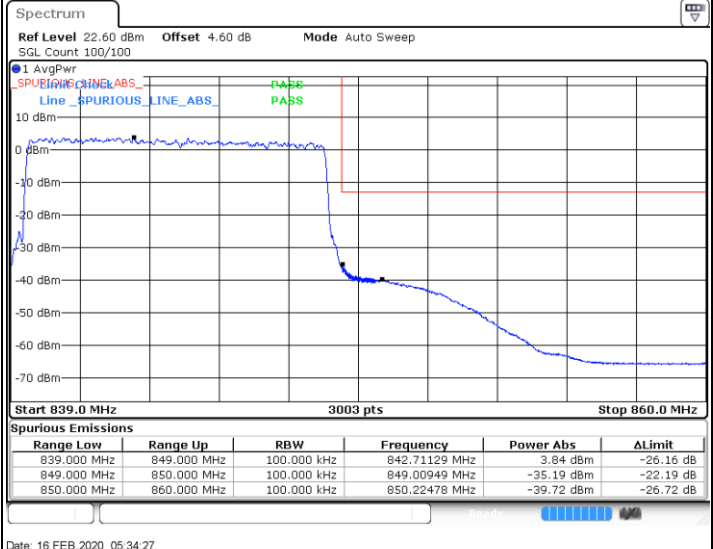
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



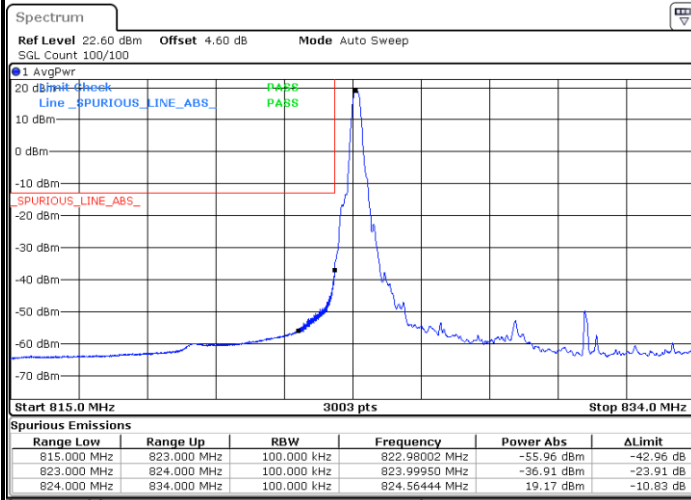
## Highest Band Edge / Full RB



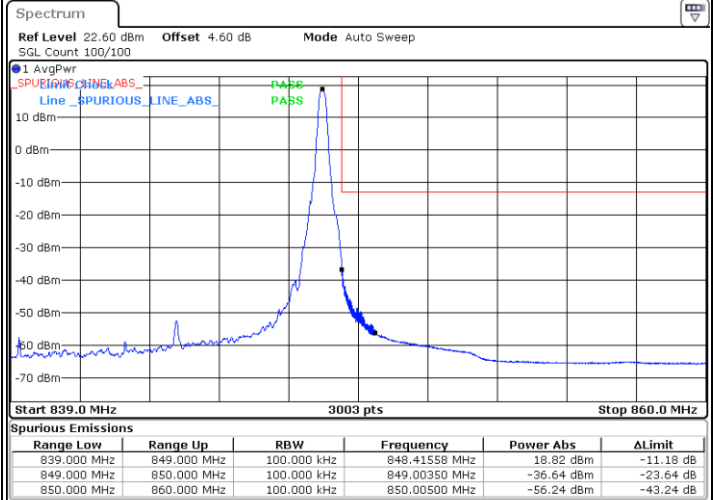


## LTE Band 5 / 10MHz / 64QAM

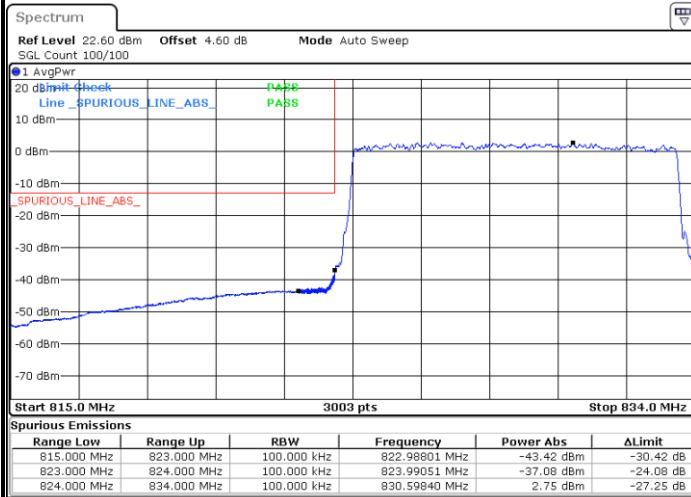
## Lowest Band Edge / 1 RB



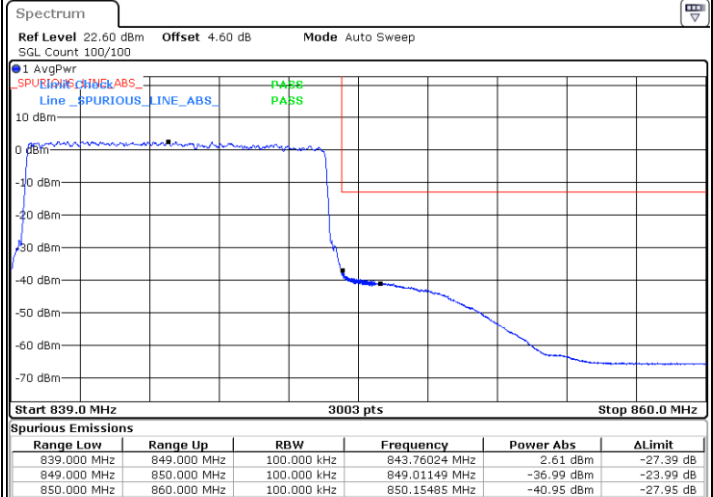
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



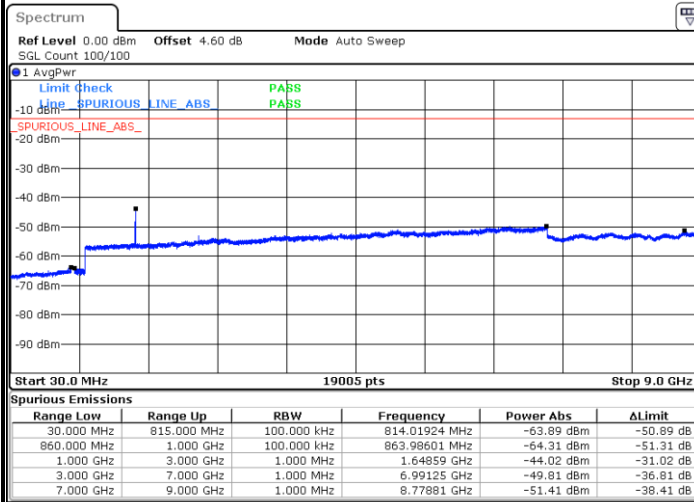


## **Conducted Spurious Emission**



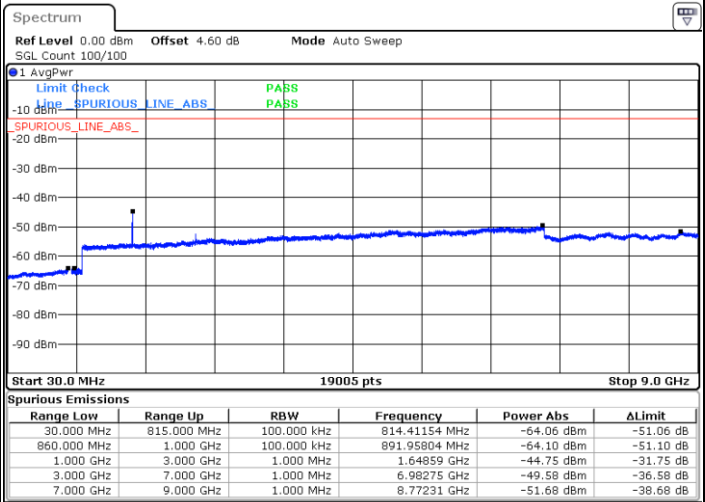
## LTE Band 5 / 1.4MHz

## Lowest Channel / QPSK



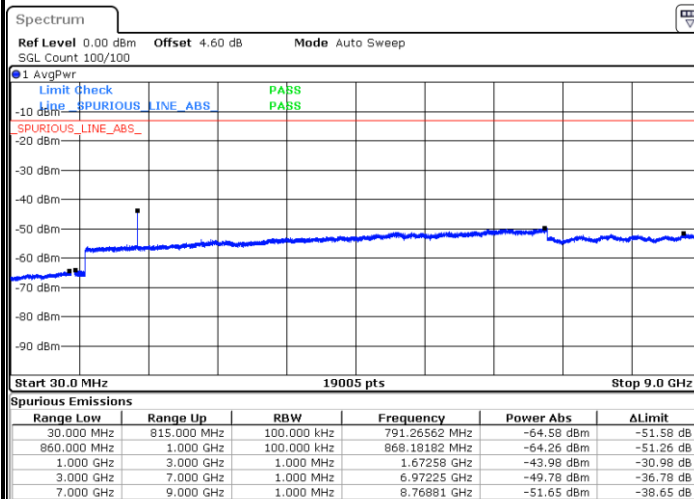
Date: 16.FEB.2020 04:22:37

## Lowest Channel / 16QAM



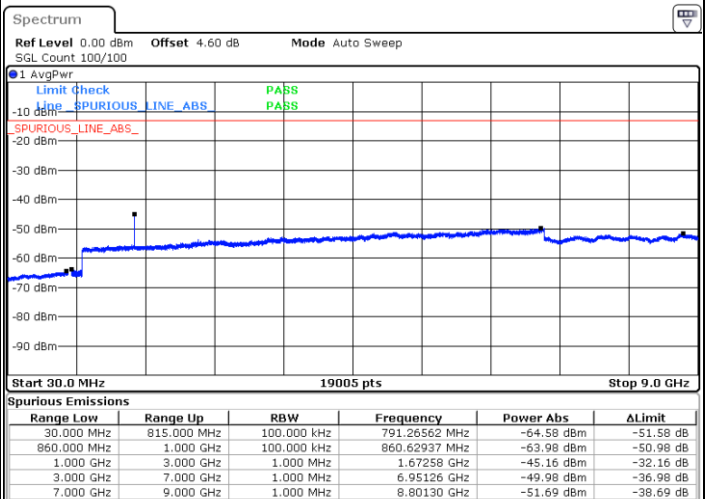
Date: 16.FEB.2020 04:23:31

## Middle Channel / QPSK



Date: 16.FEB.2020 04:25:06

## Middle Channel / 16QAM

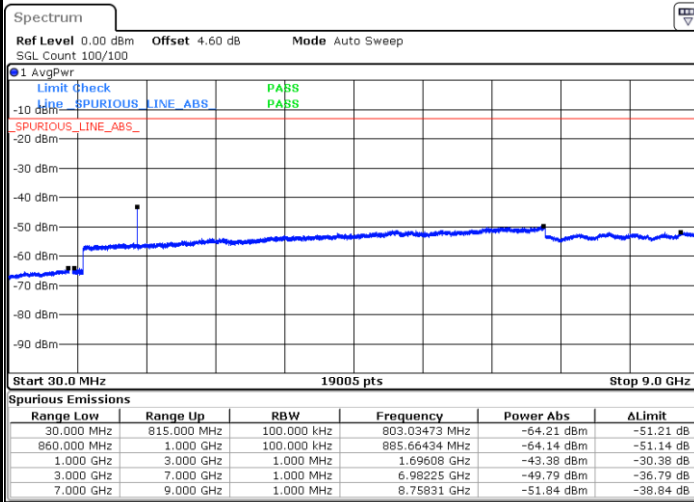


Date: 16.FEB.2020 04:26:00



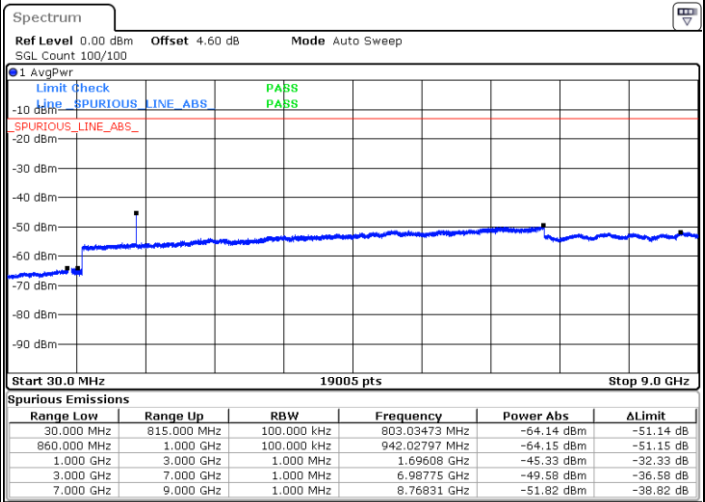
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 16 FEB 2020 04:34:04

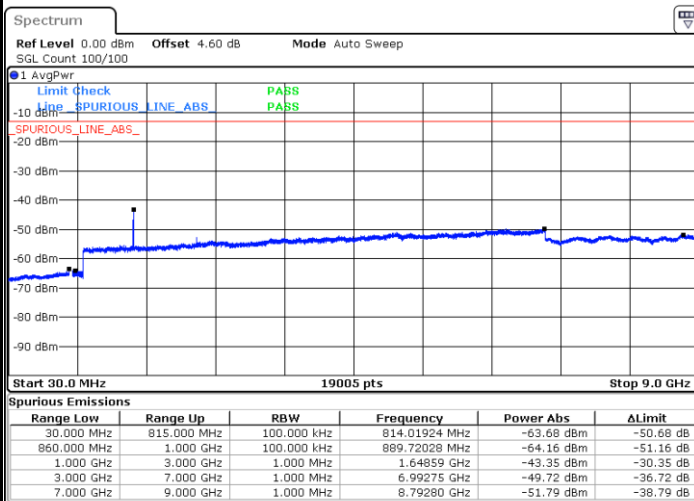
## Highest Channel / 16QAM



Date: 16 FEB 2020 04:34:58

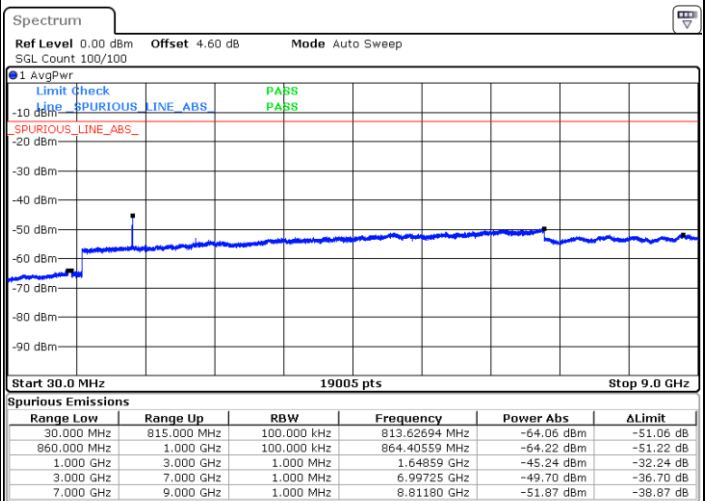
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 16 FEB 2020 04:43:02

## Lowest Channel / 16QAM

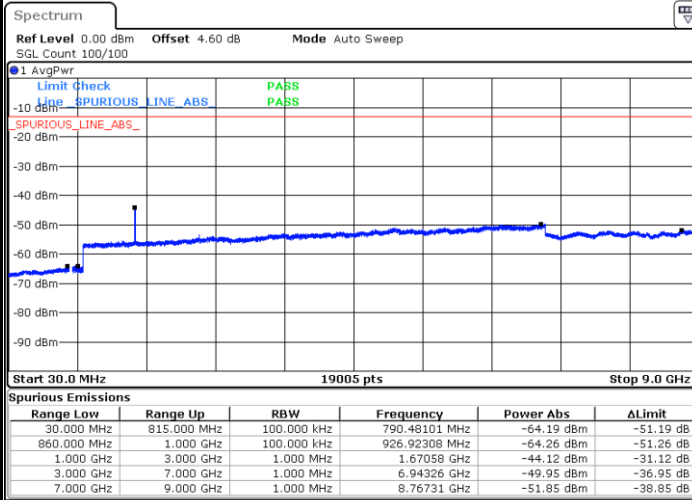


Date: 16 FEB 2020 04:43:57



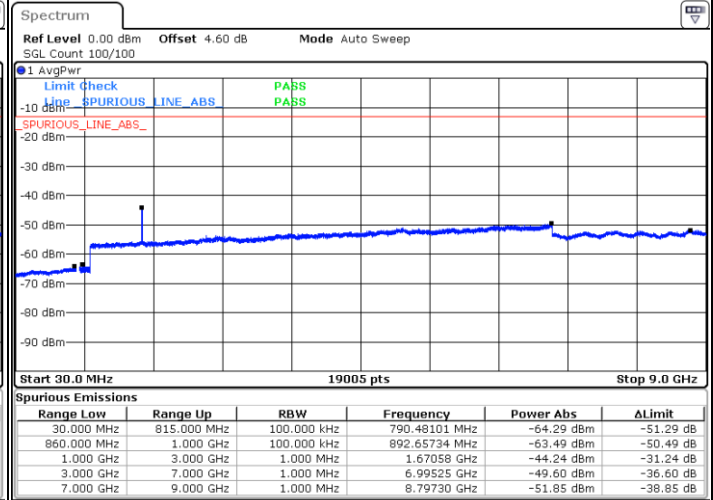
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



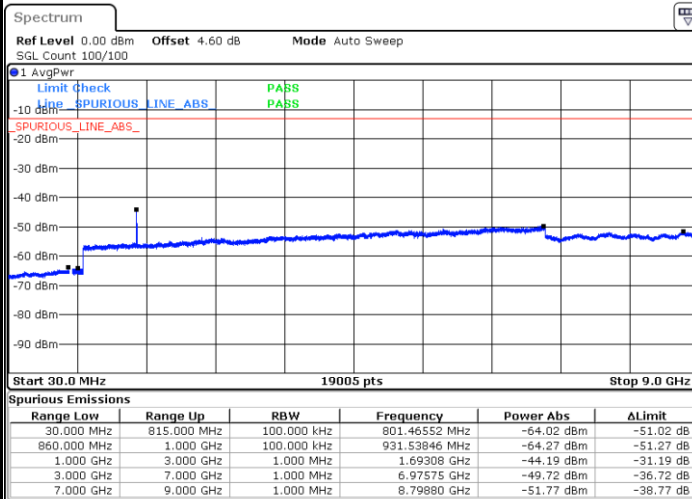
Date: 16 FEB 2020 04:45:31

## Middle Channel / 16QAM



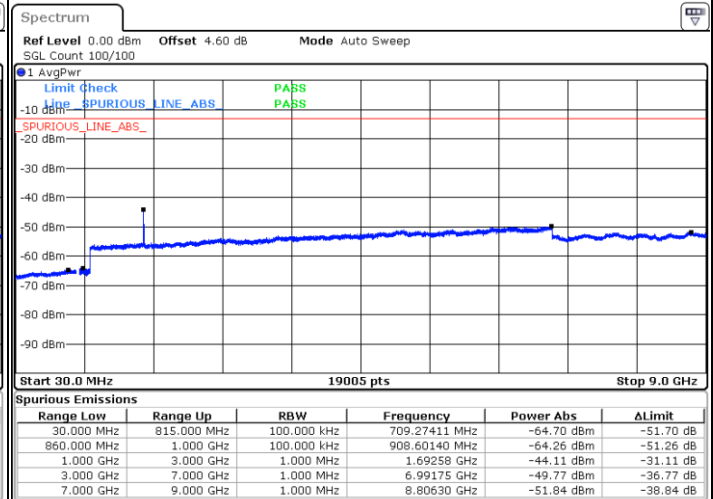
Date: 16 FEB 2020 04:46:25

## Highest Channel / QPSK



Date: 16 FEB 2020 04:54:29

## Highest Channel / 16QAM

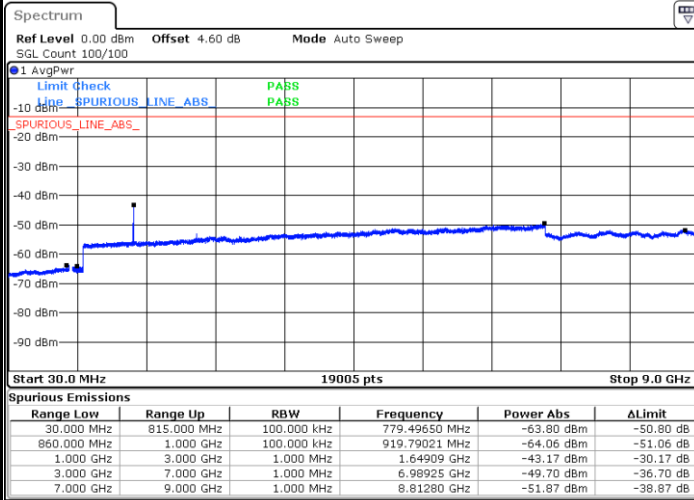


Date: 16 FEB 2020 04:55:23



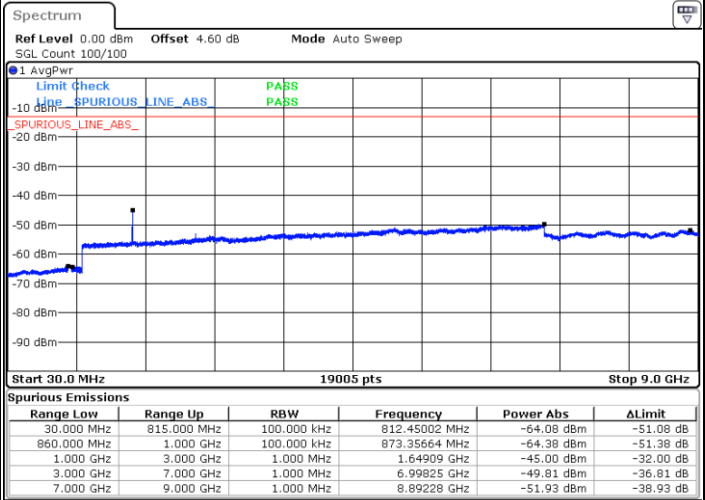
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



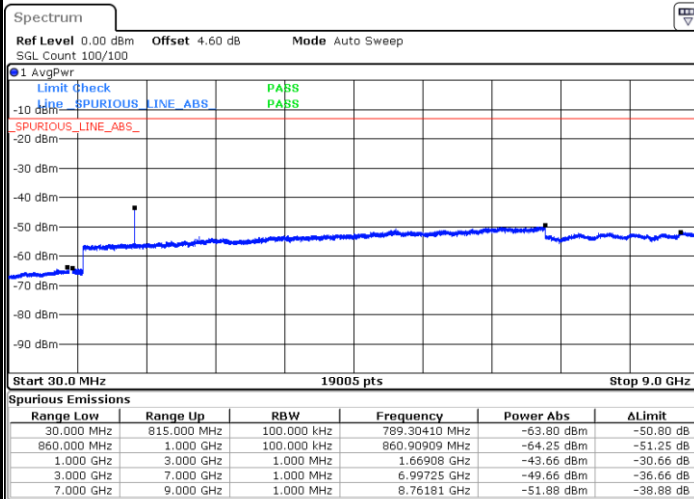
Date: 16 FEB 2020 05:03:28

## Lowest Channel / 16QAM



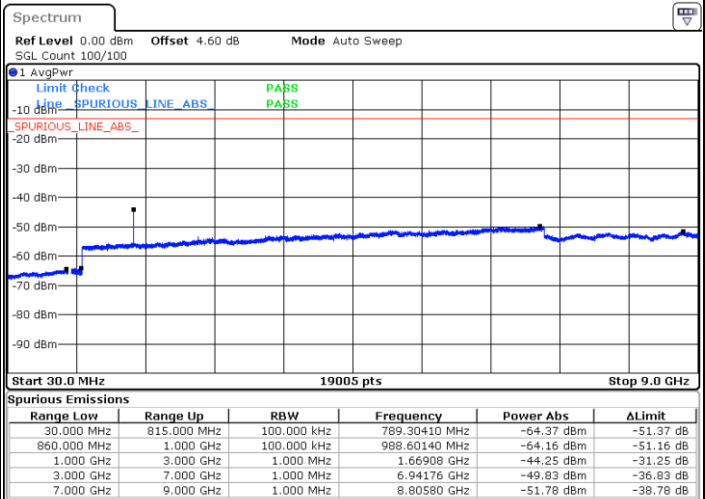
Date: 16 FEB 2020 05:04:22

## Middle Channel / QPSK



Date: 16 FEB 2020 05:05:57

## Middle Channel / 16QAM

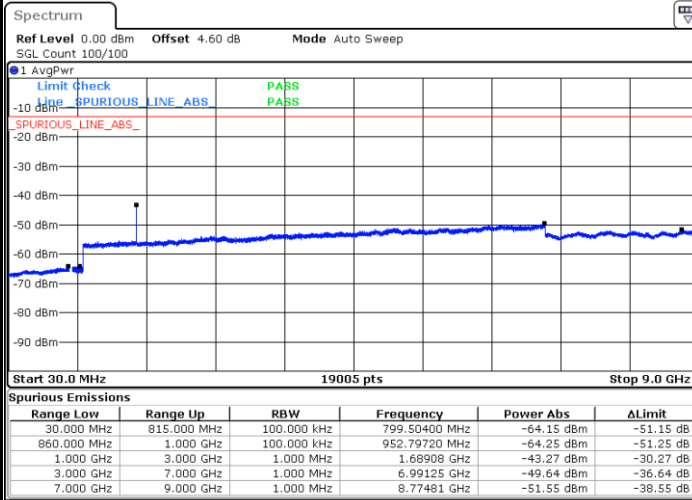


Date: 16 FEB 2020 05:06:51



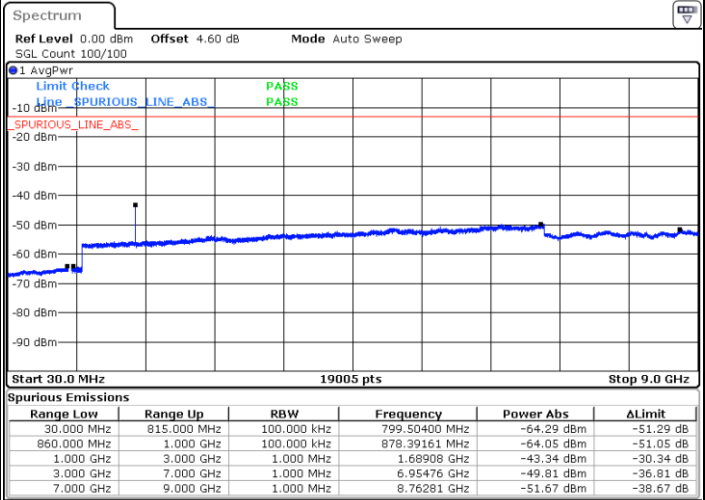
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 16 FEB 2020 05:14:55

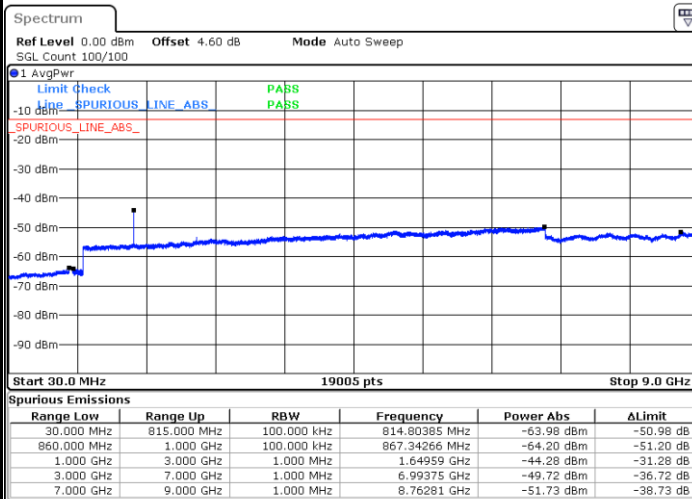
## Highest Channel / 16QAM



Date: 16 FEB 2020 05:15:49

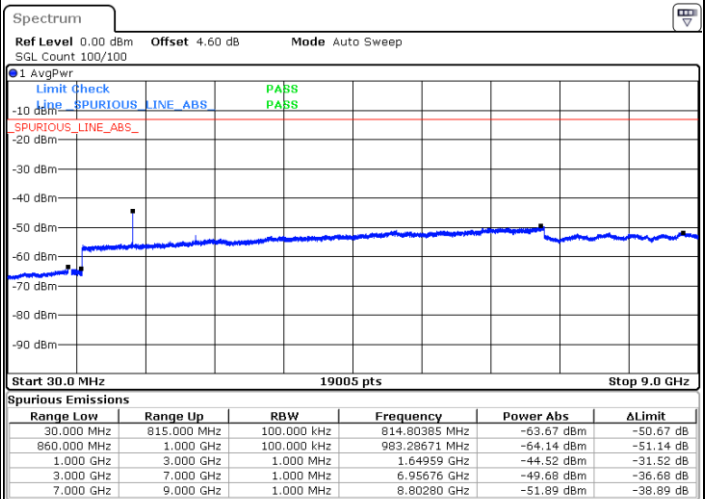
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 16 FEB 2020 05:23:53

## Lowest Channel / 16QAM

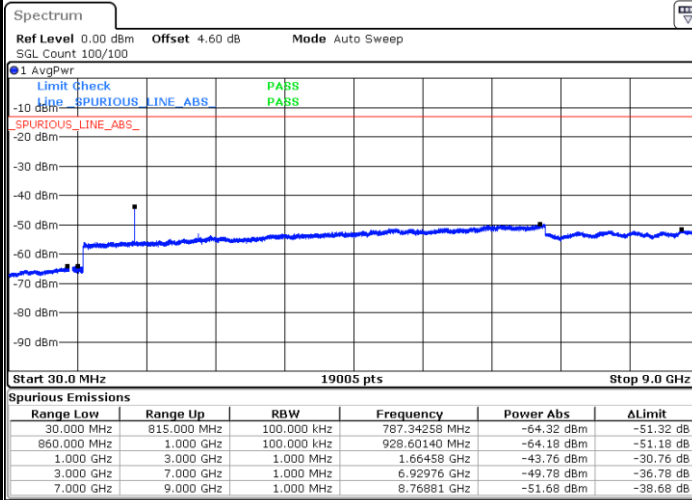


Date: 16 FEB 2020 05:24:48



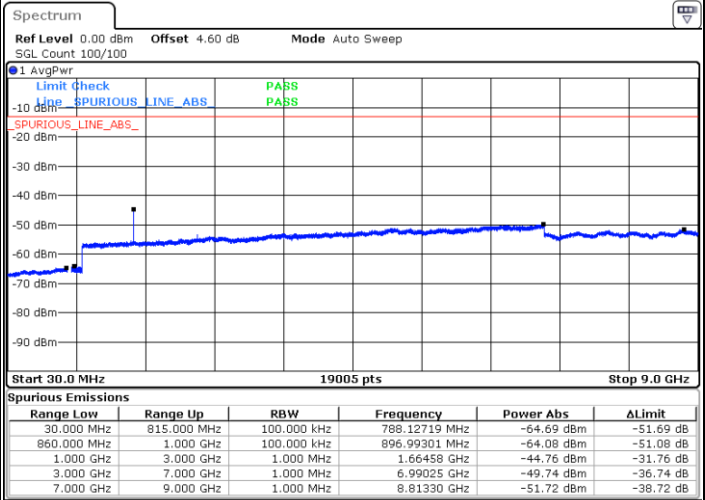
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



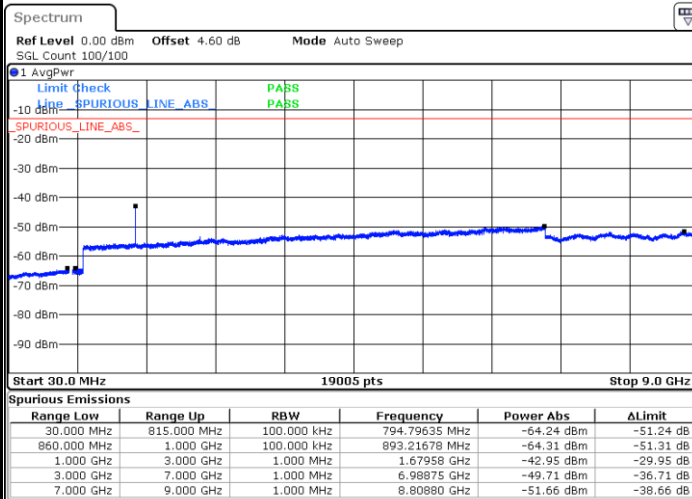
Date: 16 FEB 2020 05:26:22

## Middle Channel / 16QAM



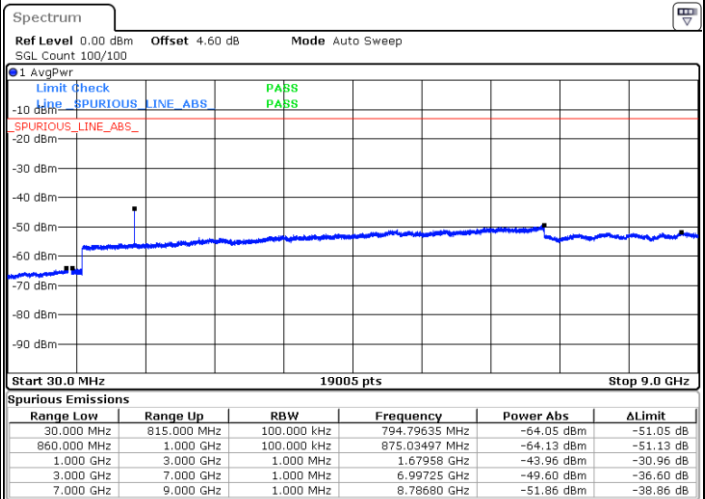
Date: 16 FEB 2020 05:27:16

## Highest Channel / QPSK



Date: 16 FEB 2020 05:35:20

## Highest Channel / 16QAM

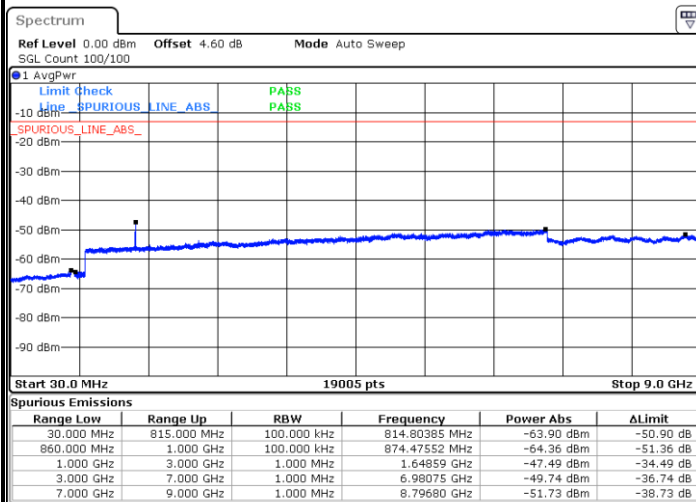


Date: 16 FEB 2020 05:36:15



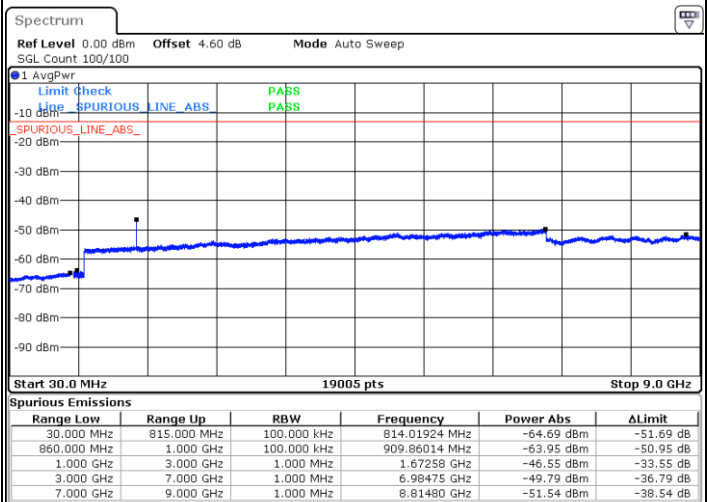
## LTE Band 5 / 1.4MHz

## Lowest Channel / 64QAM



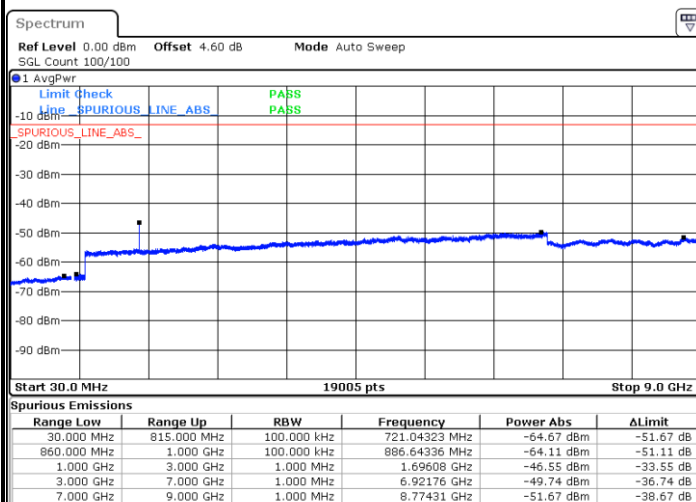
Date: 16.FEB.2020 05:38:46

## Middle Channel / 64QAM



Date: 16.FEB.2020 05:39:41

## Highest Channel / 64QAM

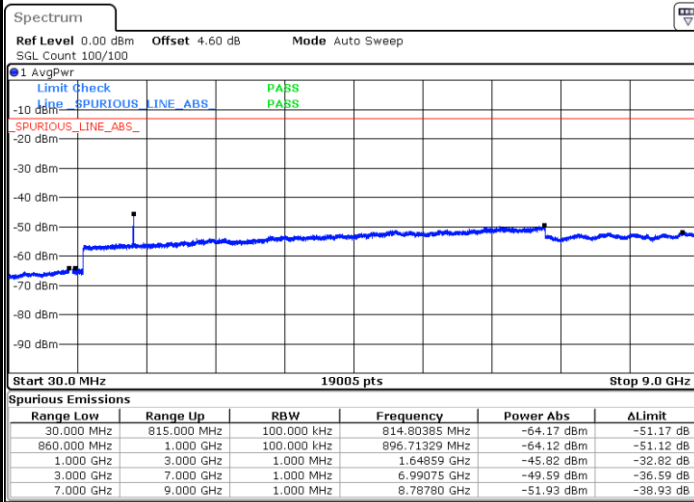


Date: 16.FEB.2020 05:45:12



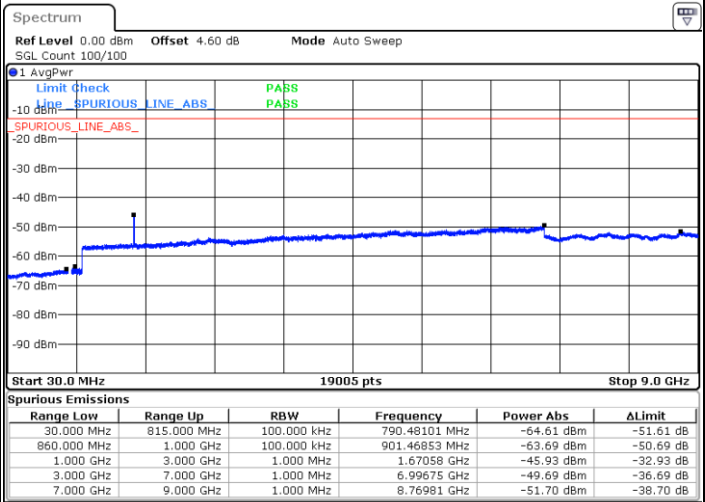
## LTE Band 5 / 3MHz

## Lowest Channel / 64QAM



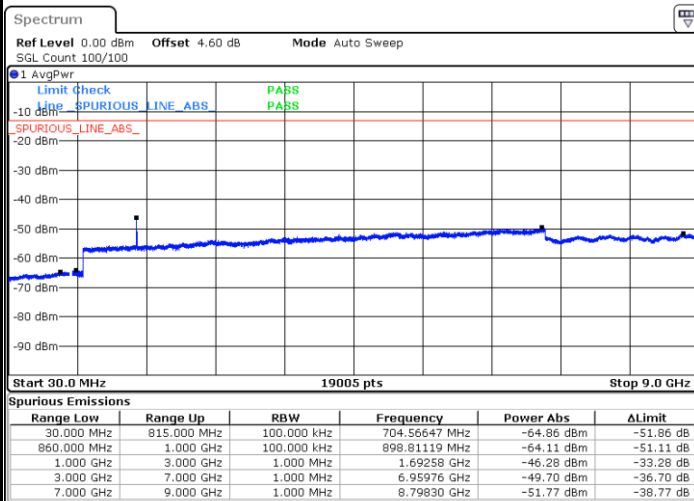
Date: 16.FEB.2020 05:49:41

## Middle Channel / 64QAM



Date: 16.FEB.2020 05:50:35

## Highest Channel / 64QAM

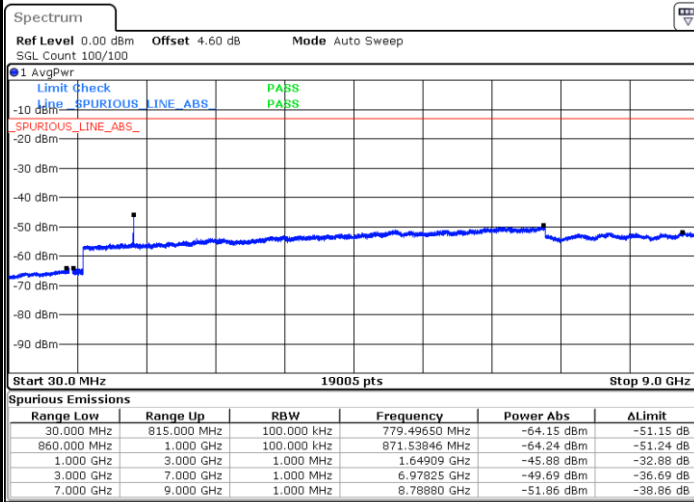


Date: 16.FEB.2020 05:55:56



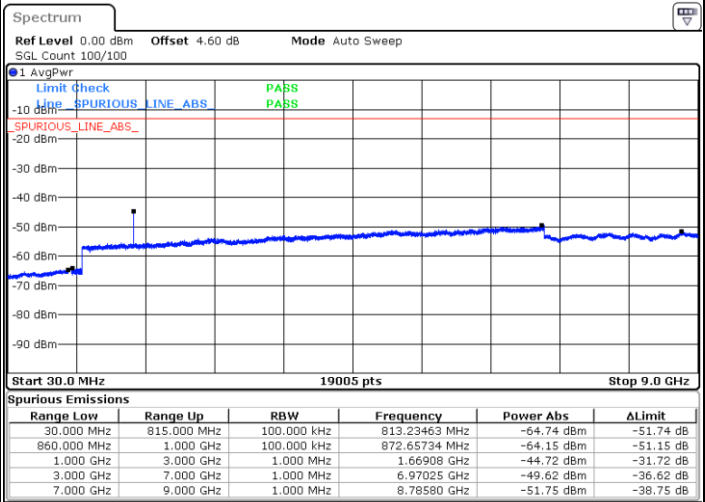
## LTE Band 5 / 5MHz

## Lowest Channel / 64QAM



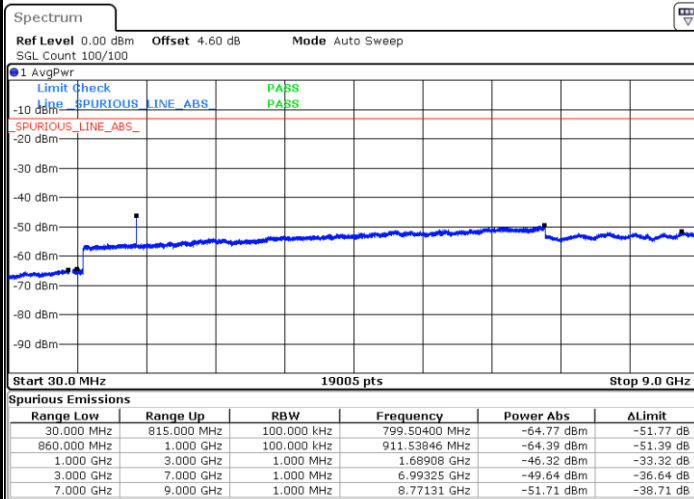
Date: 16.FEB.2020 06:00:26

## Middle Channel / 64QAM



Date: 16.FEB.2020 06:01:20

## Highest Channel / 64QAM

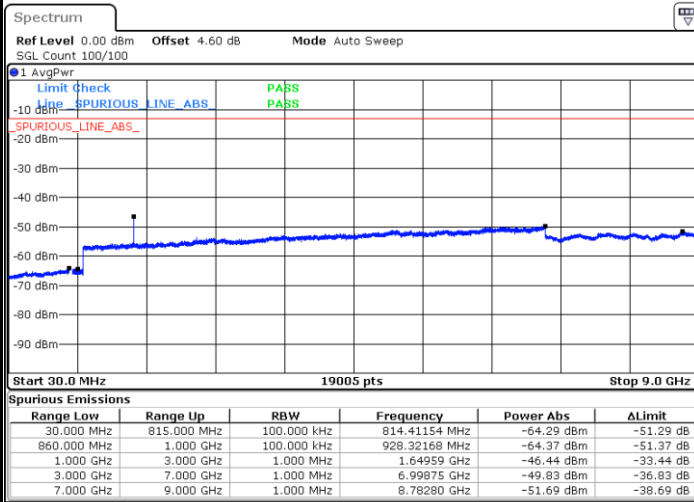


Date: 16.FEB.2020 06:06:09



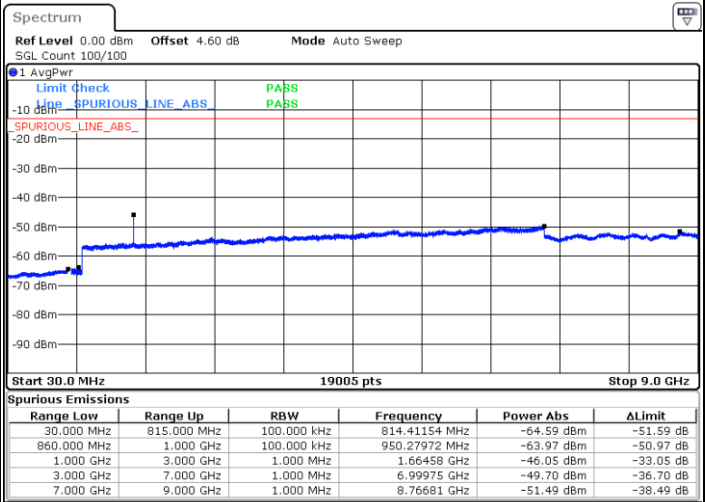
## LTE Band 5 / 10MHz

## Lowest Channel / 64QAM



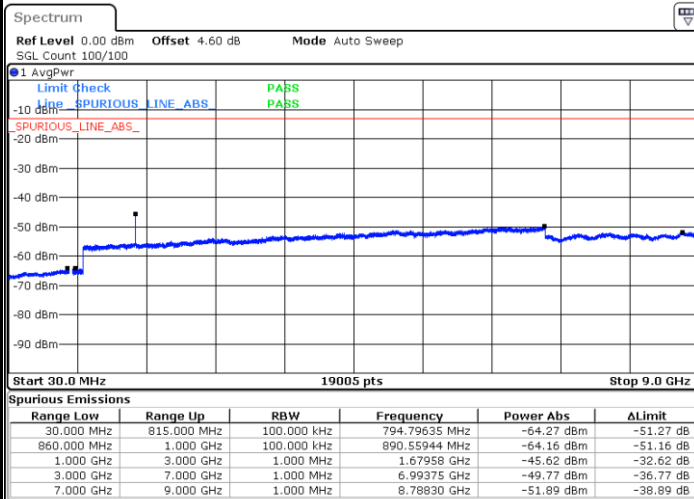
Date: 16.FEB.2020 06:10:38

## Middle Channel / 64QAM



Date: 16.FEB.2020 06:11:32

## Highest Channel / 64QAM



Date: 16.FEB.2020 06:16:22

**Frequency Stability**

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | 2.5ppm |
|                  |                   | Deviation (ppm)                    | Result |
| 50               | Normal Voltage    | 0.0020                             | PASS   |
| 40               | Normal Voltage    | 0.0013                             |        |
| 30               | Normal Voltage    | 0.0003                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0022                             |        |
| 0                | Normal Voltage    | 0.0007                             |        |
| -10              | Normal Voltage    | 0.0003                             |        |
| -20              | Normal Voltage    | 0.0008                             |        |
| -30              | Normal Voltage    | 0.0013                             |        |
| 20               | Maximum Voltage   | 0.0041                             |        |
| 20               | Normal Voltage    | 0.0030                             |        |
| 20               | Battery End Point | 0.0044                             |        |

**Note:**

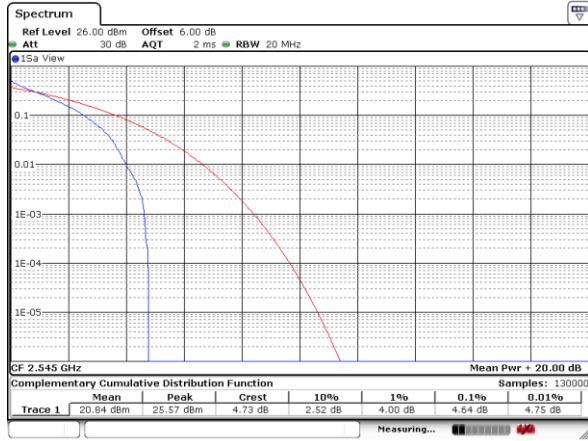
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



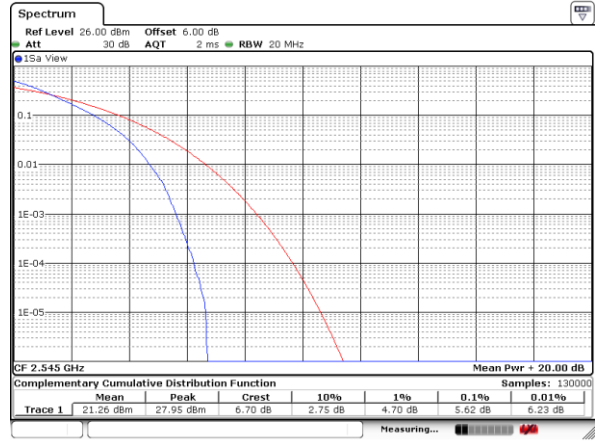
## LTE Band 41

## Peak-to-Average Ratio

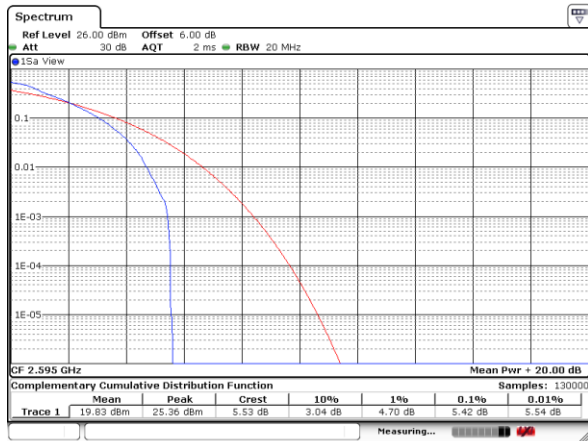
| Mode       | LTE Band 41 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 4.64                | 5.62    | 5.86        | 6.70    | PASS        |
| Middle CH  | 5.42                | 5.65    | 5.80        | 6.20    |             |
| Highest CH | 6.90                | 5.77    | 6.70        | 6.35    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 6.00                | 6.41    | PASS        |         |             |
| Middle CH  | 6.06                | 6.23    |             |         |             |
| Highest CH | 6.58                | 6.38    |             |         |             |

**LTE Band 41 / 20MHz / QPSK**
**Lowest Channel / 1RB**


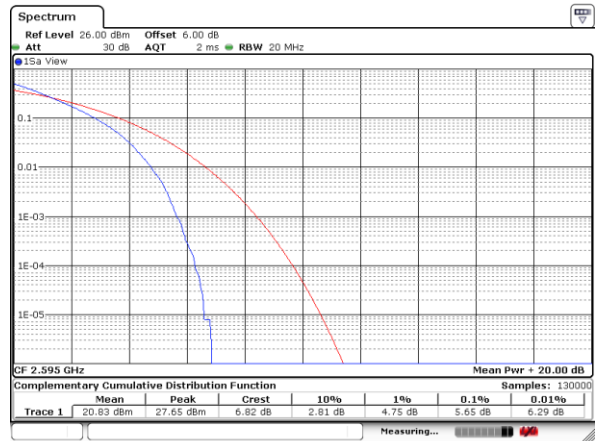
Date: 6 MAR 2020 07:02:17

**Lowest Channel / Full RB**


Date: 6 MAR 2020 07:02:31

**Middle Channel / 1RB**


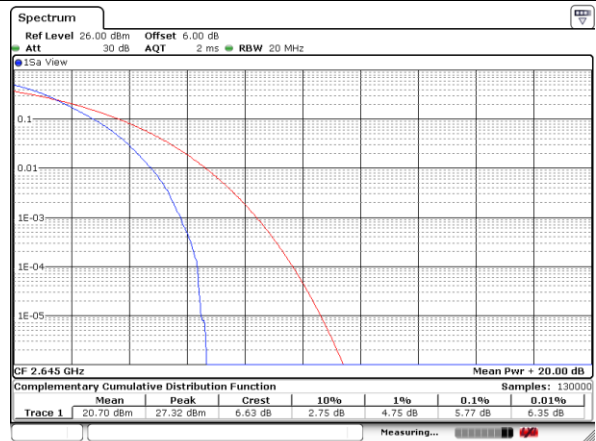
Date: 6 MAR 2020 07:04:48

**Middle Channel / Full RB**


Date: 6 MAR 2020 07:04:34

**Highest Channel / 1RB**


Date: 6 MAR 2020 07:06:32

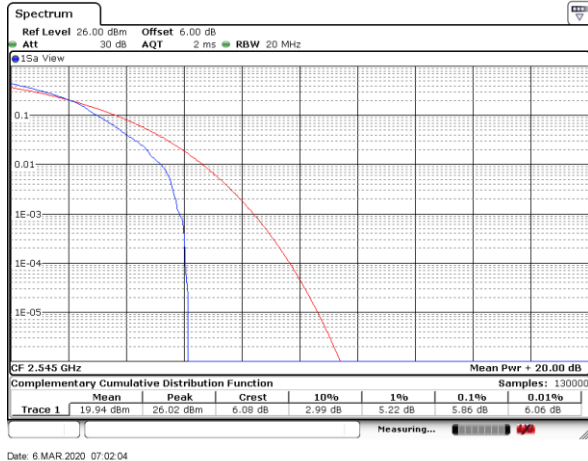
**Highest Channel / Full RB**


Date: 6 MAR 2020 07:06:46

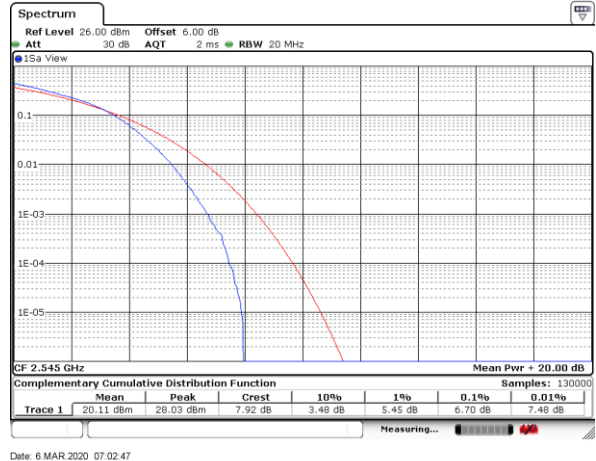


## LTE Band 41 / 20MHz / 16QAM

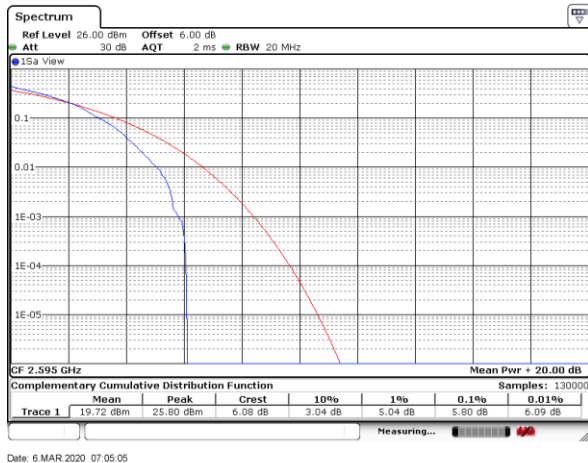
## Lowest Channel / 1RB



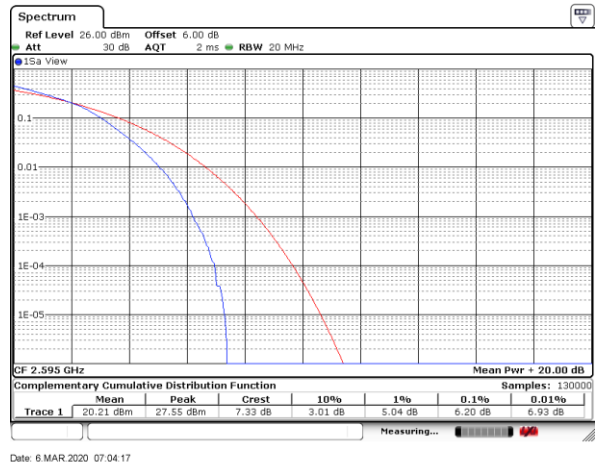
## Lowest Channel / Full RB



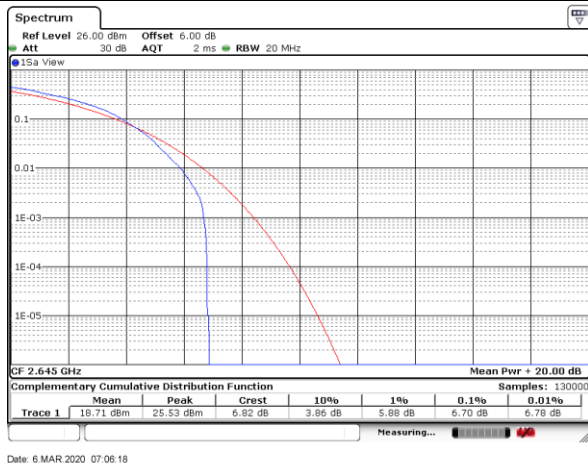
## Middle Channel / 1RB



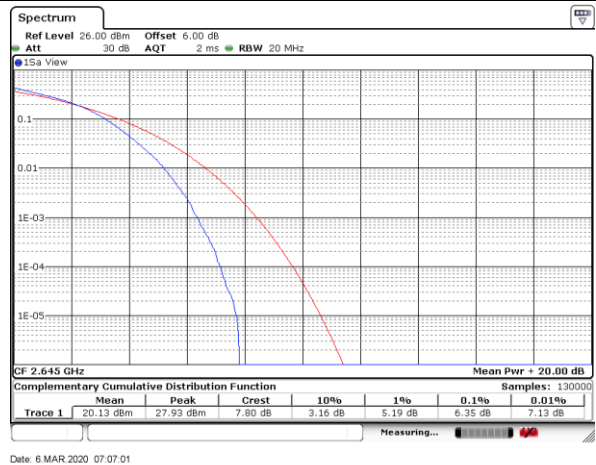
## Middle Channel / Full RB



## Highest Channel / 1RB



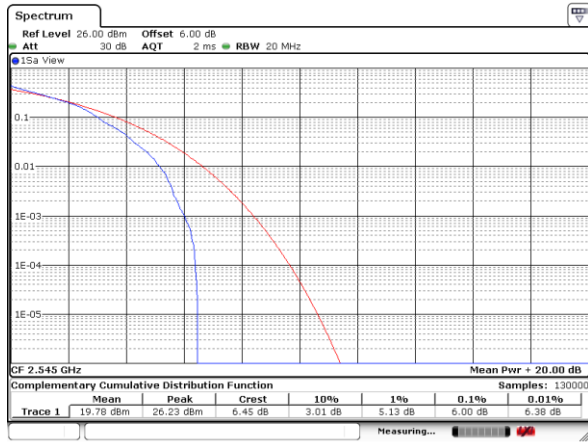
## Highest Channel / Full RB





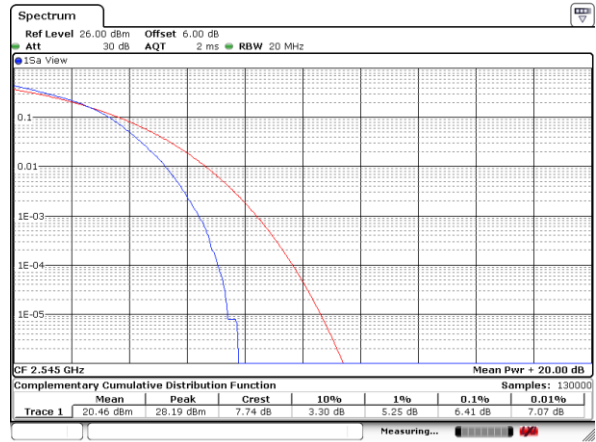
## LTE Band 41 / 20MHz / 64QAM

## Lowest Channel / 1RB



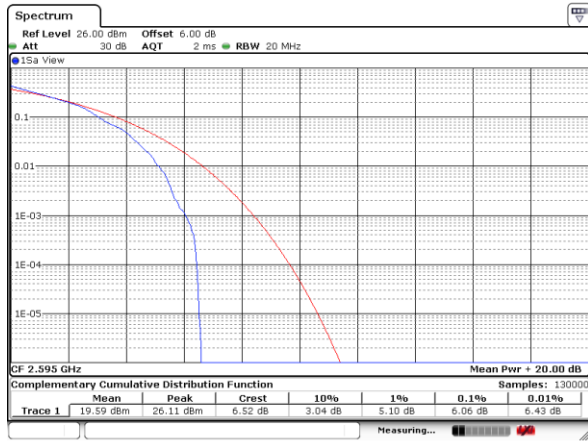
Date: 6 MAR 2020 07:54:23

## Lowest Channel / Full RB



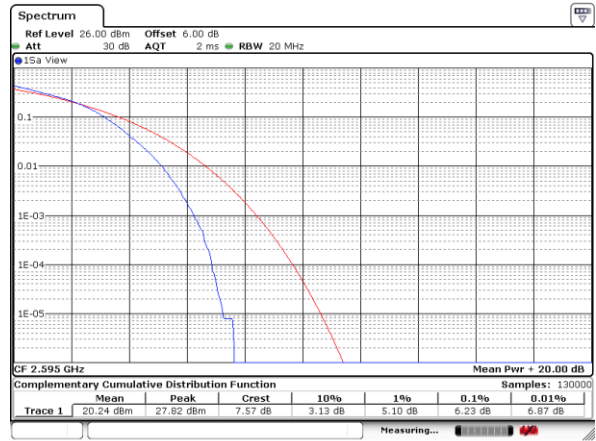
Date: 6 MAR 2020 07:03:05

## Middle Channel / 1RB



Date: 6 MAR 2020 07:05:18

## Middle Channel / Full RB



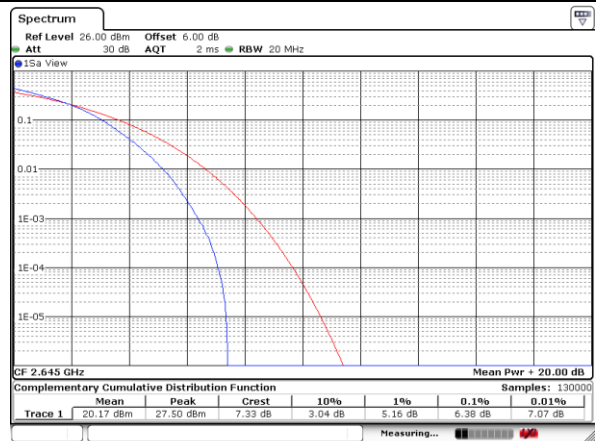
Date: 6 MAR 2020 07:03:48

## Highest Channel / 1RB



Date: 6 MAR 2020 07:06:01

## Highest Channel / Full RB



Date: 6 MAR 2020 07:07:30

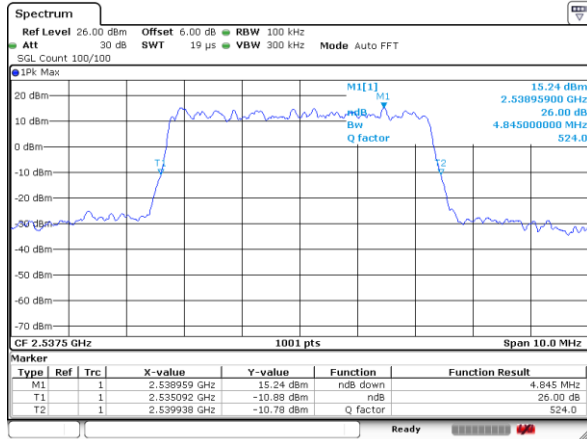
**26dB Bandwidth**

| Mode       | LTE Band 41 : 26dB BW(MHz) |       |       |       |        |        |       |       |       |       |        |       |
|------------|----------------------------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|-------|
| BW         | 5MHz                       |       | 10MHz |       | 15MHz  |        | 20MHz |       | 5MHz  | 10MHz | 15MHz  | 20MHz |
| Mod.       | QPSK                       | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM  | QPSK  | 16QAM | 64QAM | 64QAM | 64QAM  | 64QAM |
| Lowest CH  | 4.845                      | 4.805 | 9.75  | 9.67  | 14.386 | 14.206 | 20.1  | 20.1  | 4.825 | 9.79  | 14.116 | 20.1  |
| Middle CH  | 4.895                      | 4.905 | 9.61  | 9.67  | 14.146 | 14.176 | 20.34 | 20.1  | 4.735 | 9.73  | 14.386 | 20.1  |
| Highest CH | 4.795                      | 4.835 | 9.69  | 9.73  | 14.266 | 14.236 | 20.06 | 20.18 | 4.815 | 9.67  | 14.236 | 20.22 |



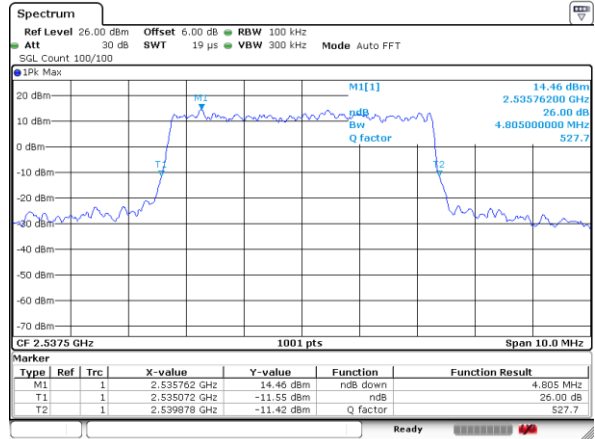
## LTE Band 41

## Lowest Channel / 5MHz / QPSK



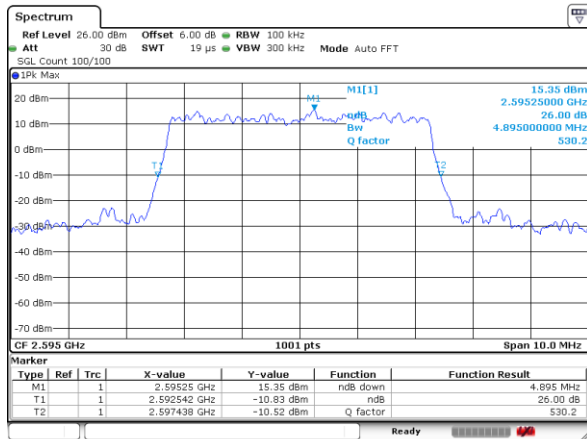
Date: 6 MAR 2020 07:47:15

## Lowest Channel / 5MHz / 16QAM



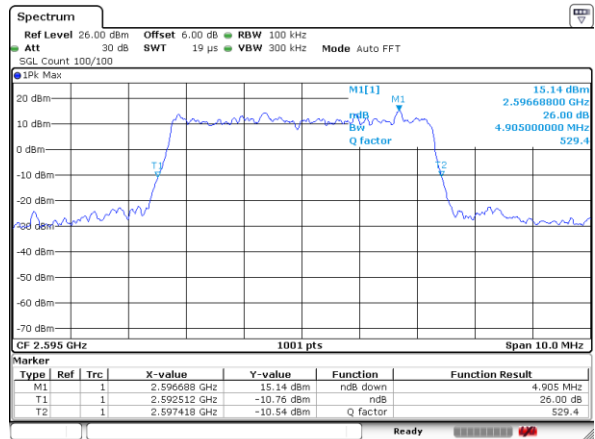
Date: 6 MAR 2020 07:47:34

## Middle Channel / 5MHz / QPSK



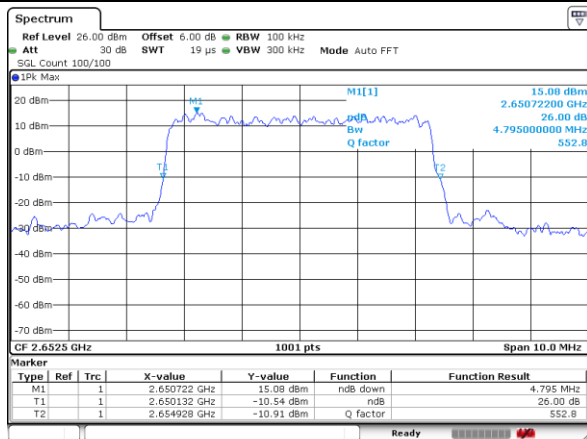
Date: 6 MAR 2020 07:48:48

## Middle Channel / 5MHz / 16QAM



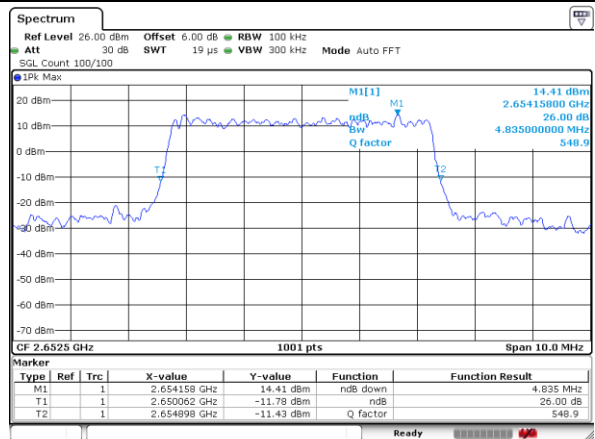
Date: 6 MAR 2020 07:48:35

## Highest Channel / 5MHz / QPSK



Date: 6 MAR 2020 07:49:11

## Highest Channel / 5MHz / 16QAM



Date: 6 MAR 2020 07:49:29