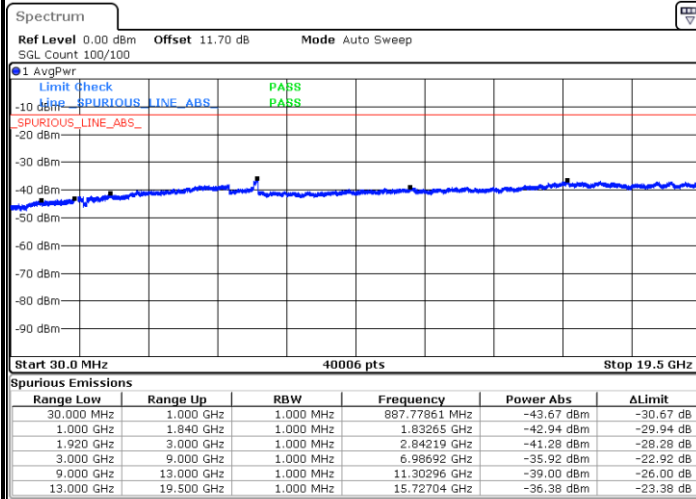




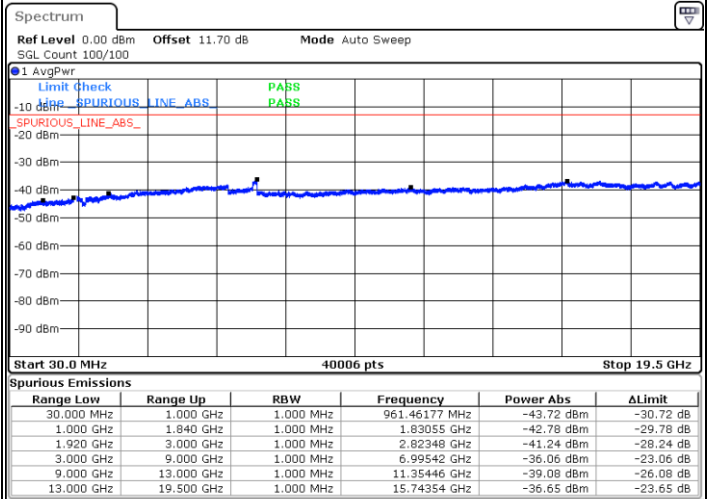
## LTE Band 2 / 5MHz

## Lowest Channel / QPSK



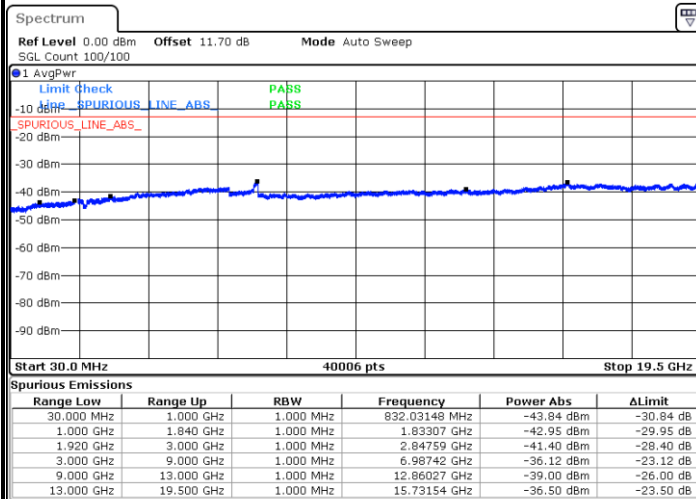
Date: 11.FEB.2020 02:34:17

## Lowest Channel / 16QAM



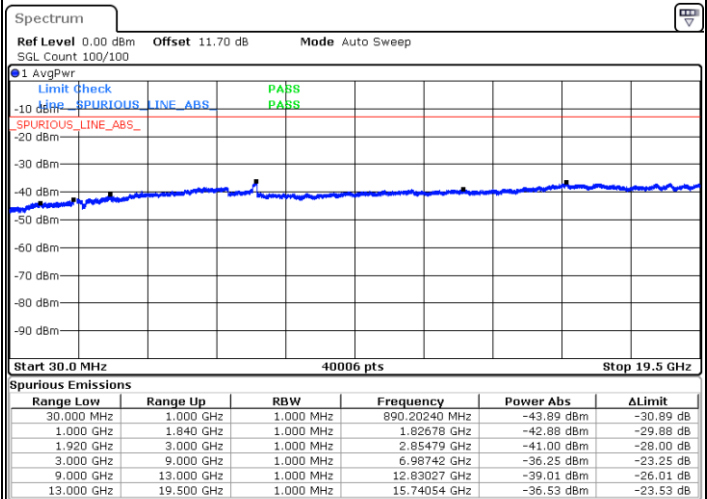
Date: 11.FEB.2020 02:35:11

## Middle Channel / QPSK



Date: 11.FEB.2020 02:36:59

## Middle Channel / 16QAM

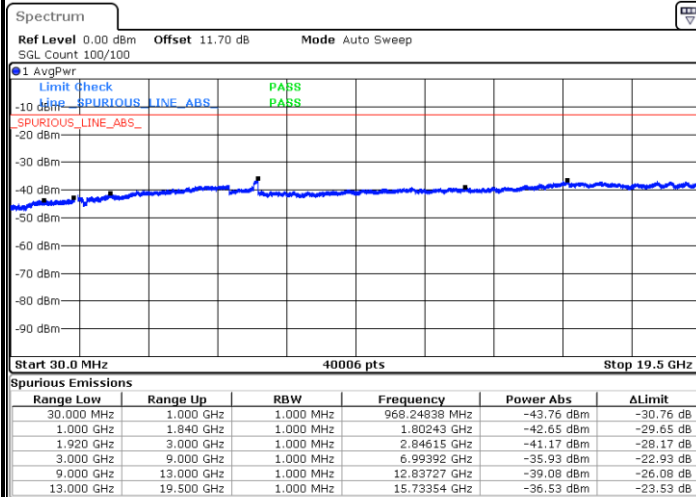


Date: 11.FEB.2020 02:37:53



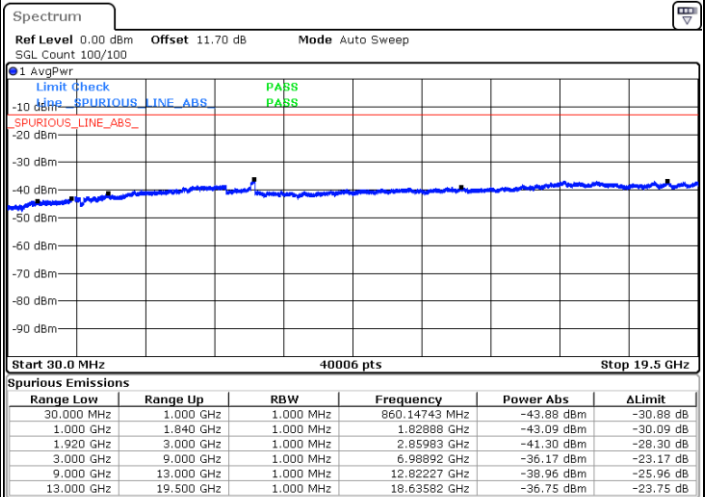
## LTE Band 2 / 5MHz

## Highest Channel / QPSK



Date: 11.FEB.2020 02:44:27

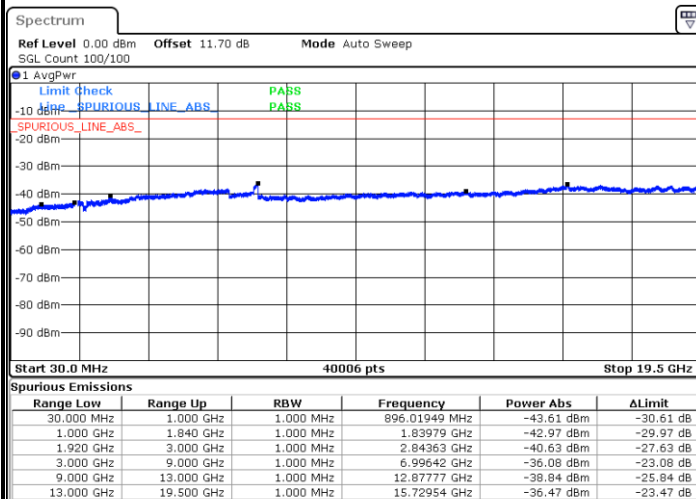
## Highest Channel / 16QAM



Date: 11.FEB.2020 02:45:21

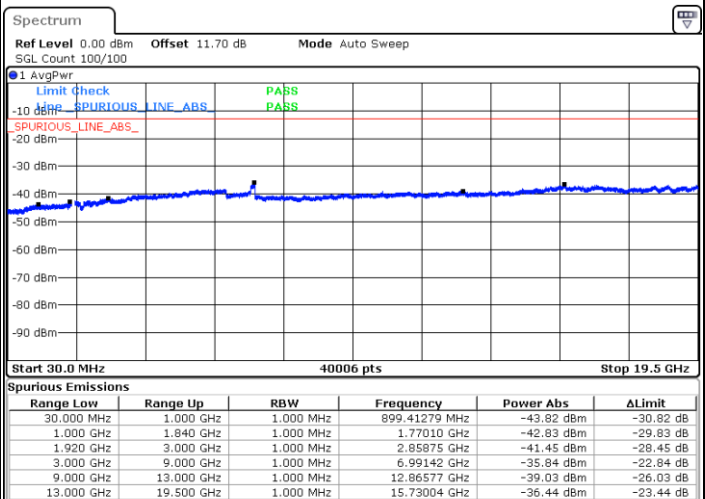
## LTE Band 2 / 10MHz

## Lowest Channel / QPSK



Date: 11.FEB.2020 02:51:56

## Lowest Channel / 16QAM

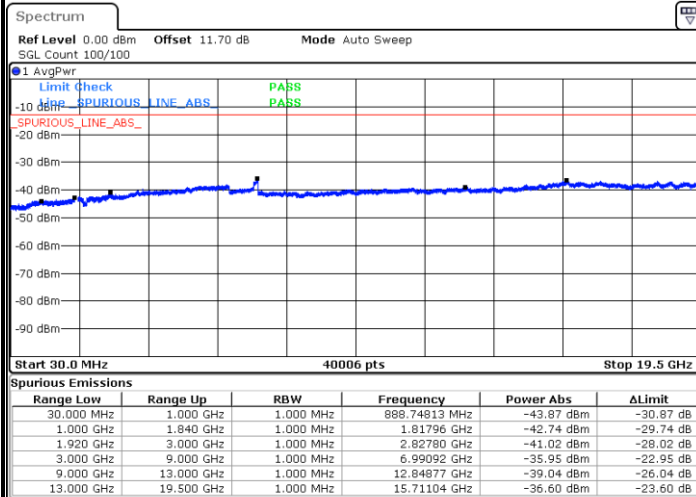


Date: 11.FEB.2020 02:52:50



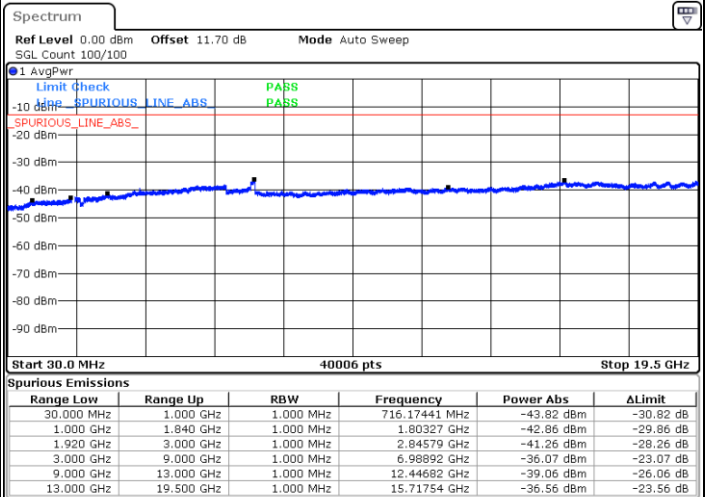
## LTE Band 2 / 10MHz

## Middle Channel / QPSK



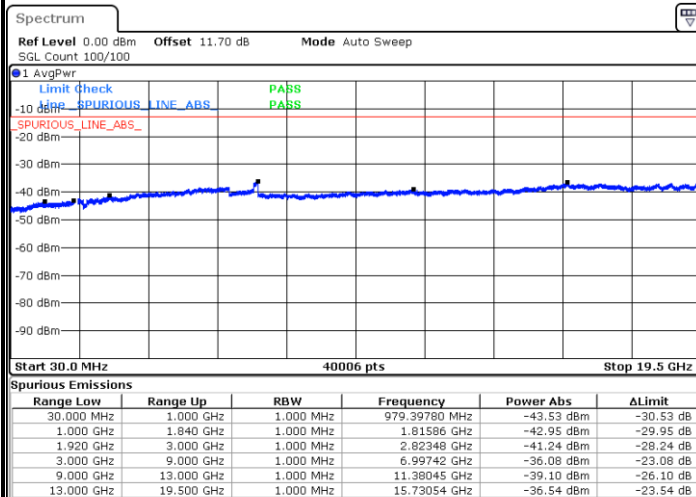
Date: 11.FEB.2020 02:54:38

## Middle Channel / 16QAM



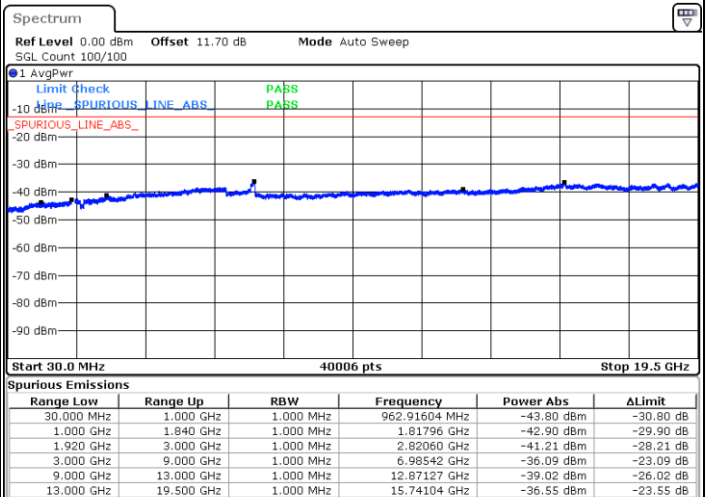
Date: 11.FEB.2020 02:55:32

## Highest Channel / QPSK



Date: 11.FEB.2020 03:02:05

## Highest Channel / 16QAM

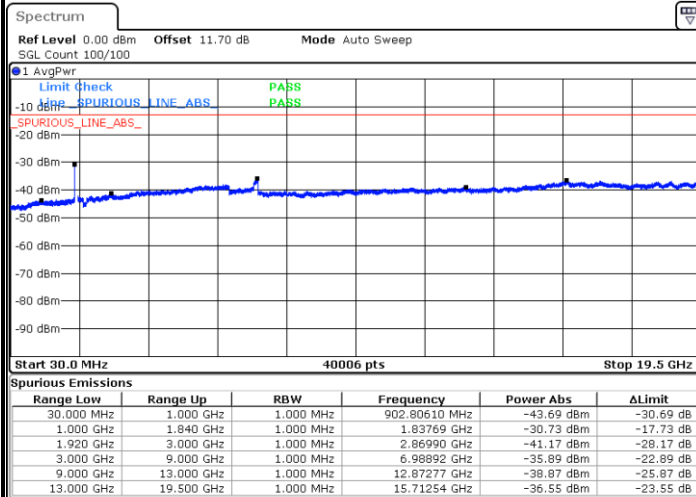


Date: 11.FEB.2020 03:02:59



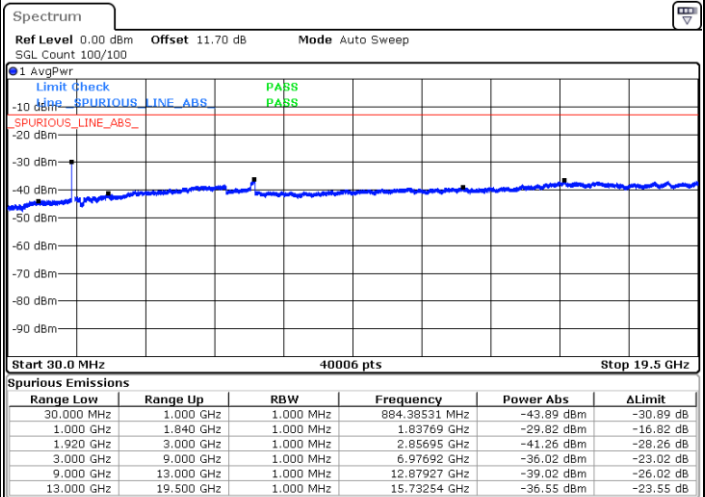
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



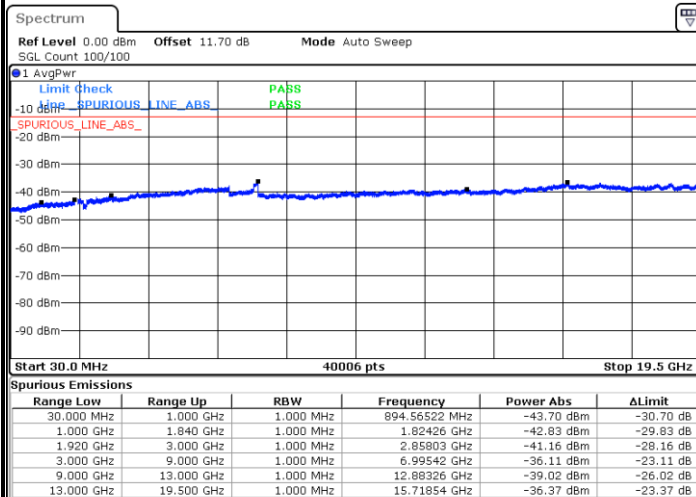
Date: 11.FEB.2020 03:09:34

## Lowest Channel / 16QAM



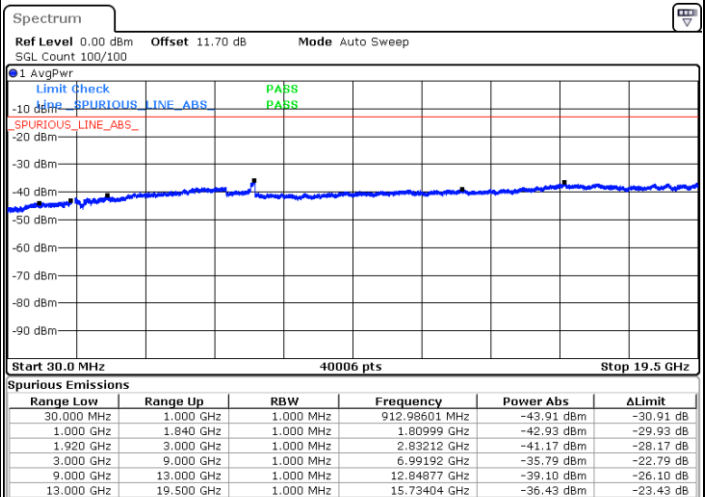
Date: 11.FEB.2020 03:10:28

## Middle Channel / QPSK



Date: 11.FEB.2020 03:12:15

## Middle Channel / 16QAM

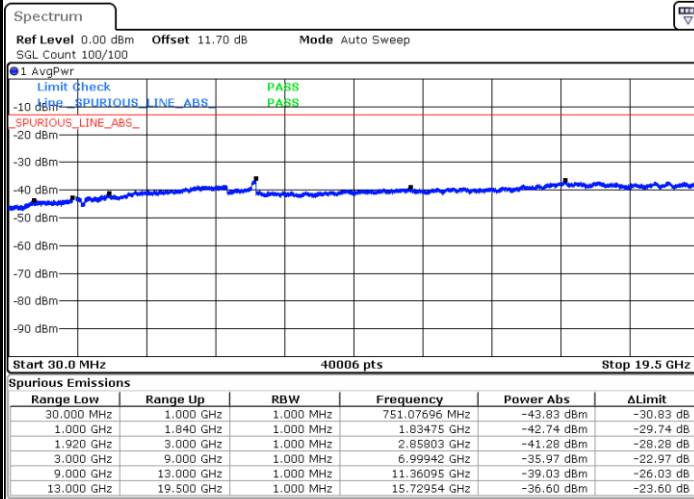


Date: 11.FEB.2020 03:13:09



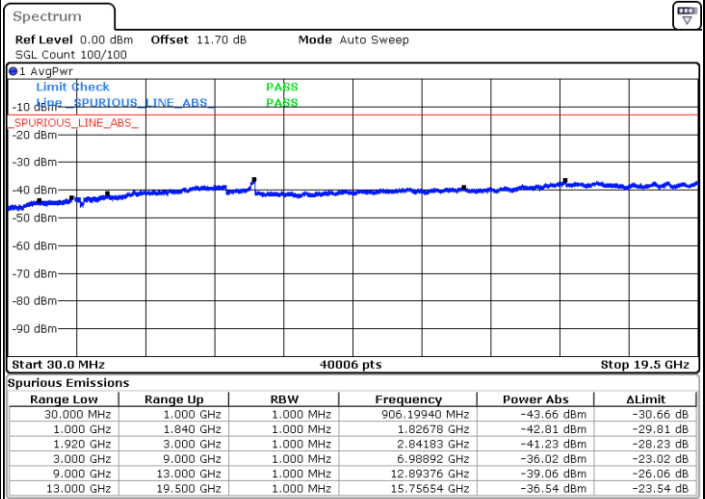
## LTE Band 2 / 15MHz

## Highest Channel / QPSK



Date: 11.FEB.2020 03:19:43

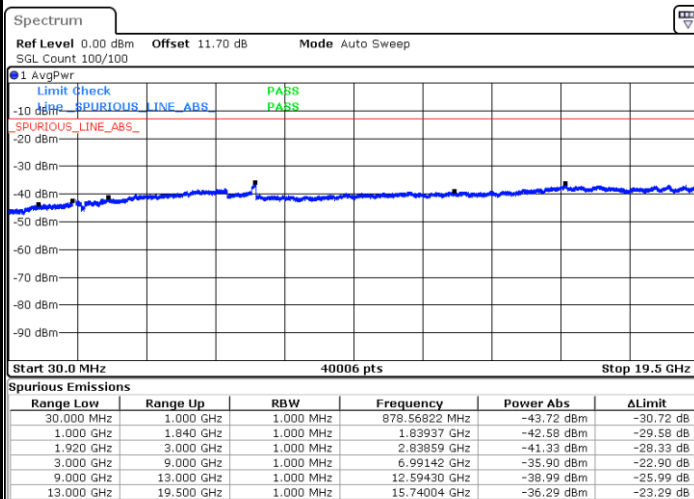
## Highest Channel / 16QAM



Date: 11.FEB.2020 03:20:38

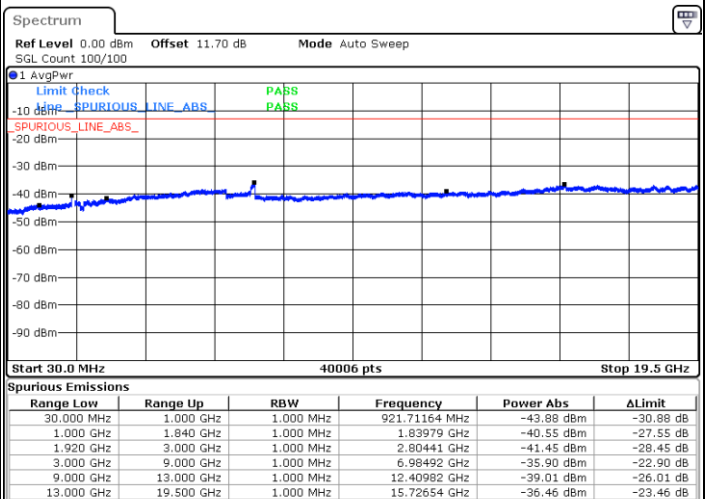
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



Date: 11.FEB.2020 03:27:12

## Lowest Channel / 16QAM

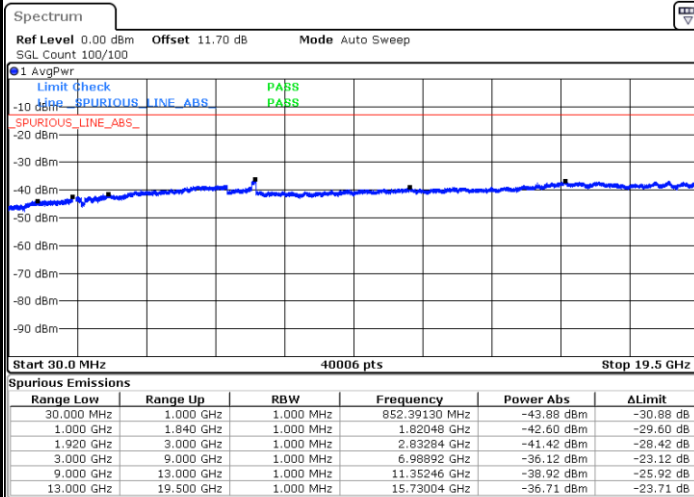


Date: 11.FEB.2020 03:28:07



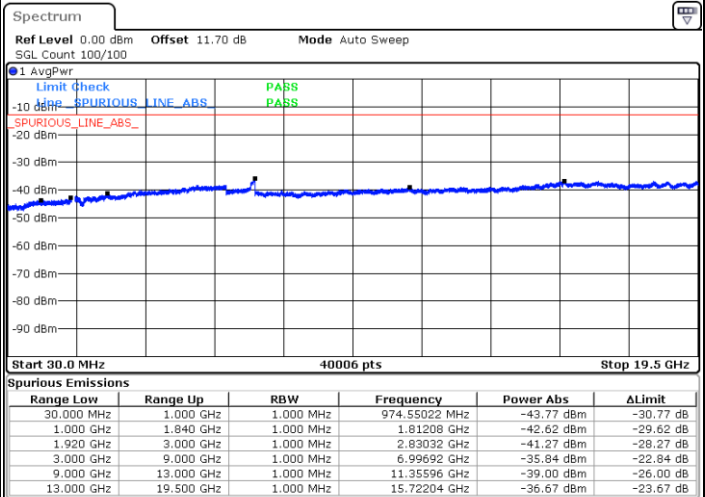
## LTE Band 2 / 20MHz

## Middle Channel / QPSK



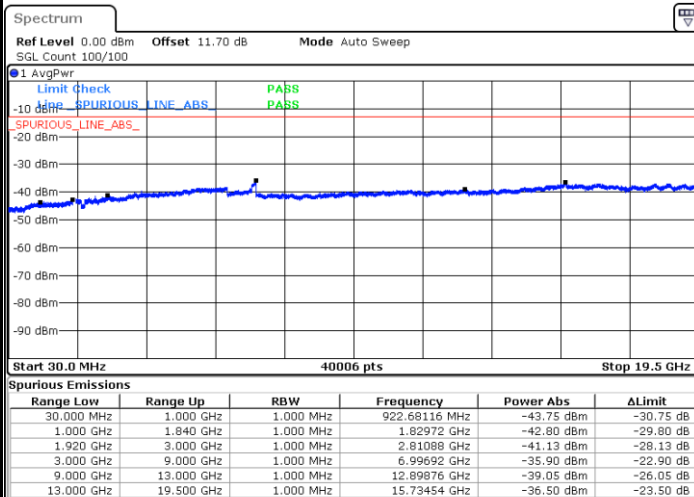
Date: 11.FEB.2020 03:29:54

## Middle Channel / 16QAM



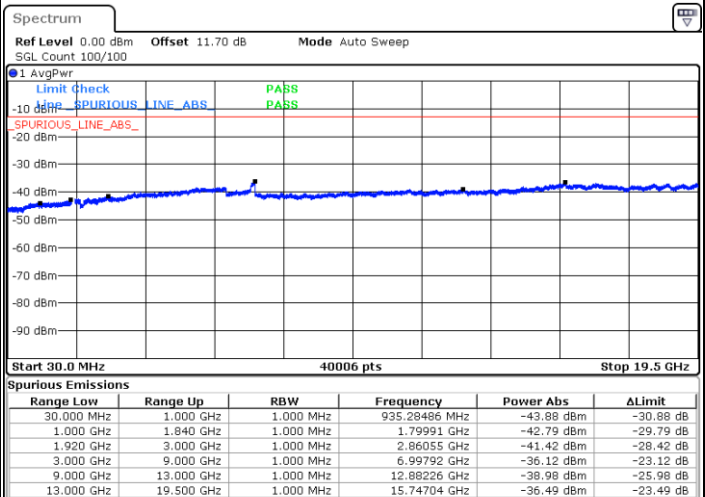
Date: 11.FEB.2020 03:30:48

## Highest Channel / QPSK



Date: 11.FEB.2020 03:37:22

## Highest Channel / 16QAM

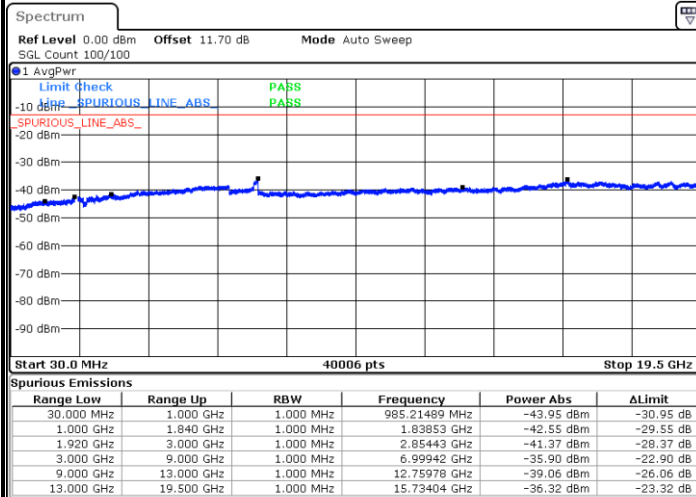


Date: 11.FEB.2020 03:38:16



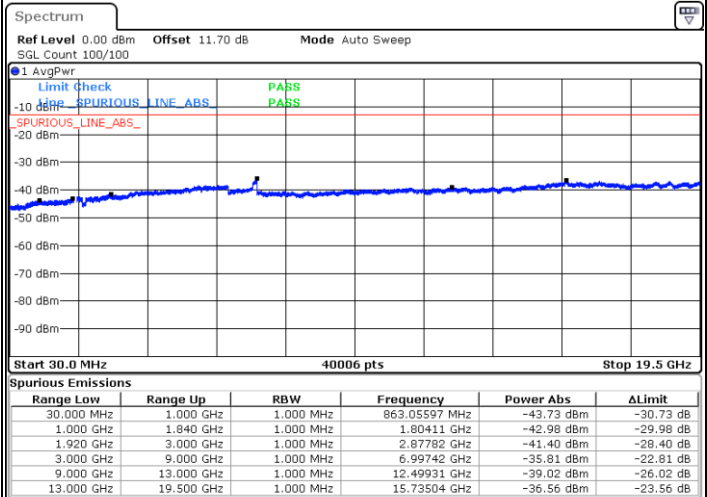
## LTE Band 2 / 1.4MHz

## Lowest Channel / 64QAM



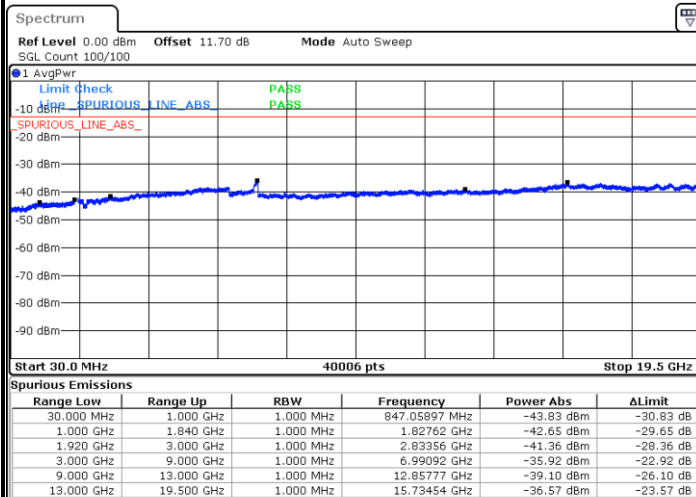
Date: 11.FEB.2020 01:47:19

## Middle Channel / 64QAM



Date: 11.FEB.2020 01:48:40

## Highest Channel / 64QAM

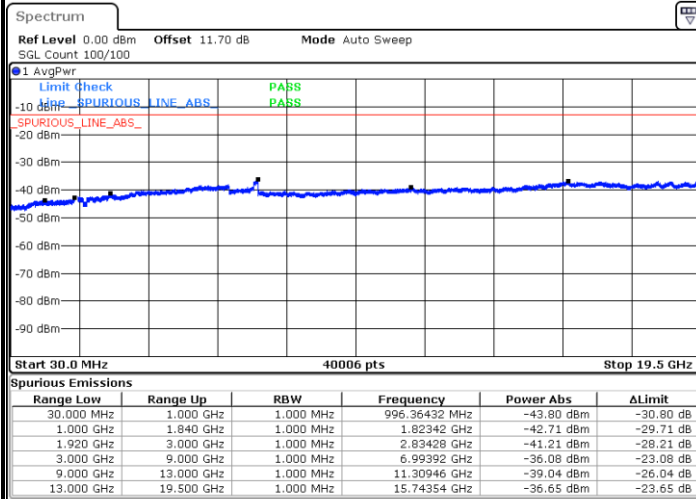


Date: 11.FEB.2020 01:52:24



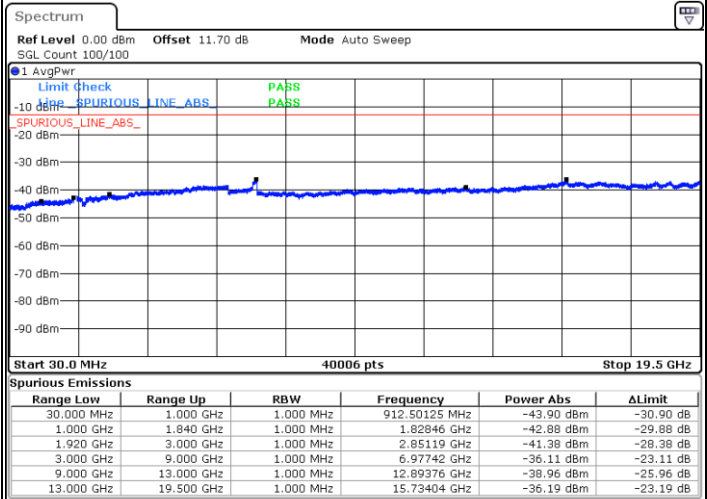
## LTE Band 2 / 3MHz

## Lowest Channel / 64QAM



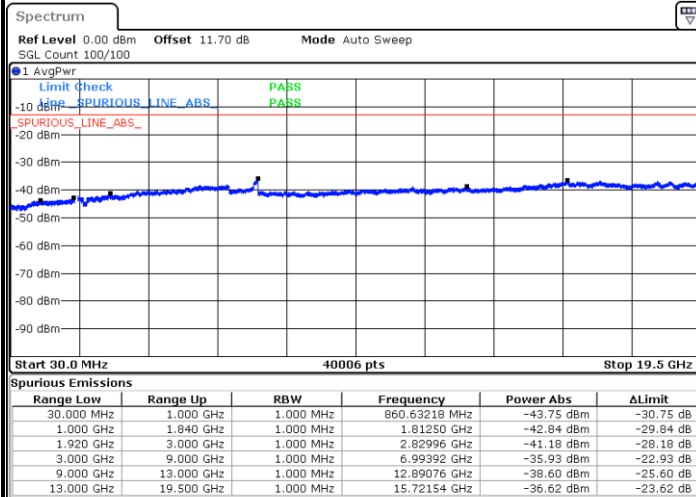
Date: 11.FEB.2020 03:42:01

## Middle Channel / 64QAM



Date: 11.FEB.2020 03:43:21

## Highest Channel / 64QAM

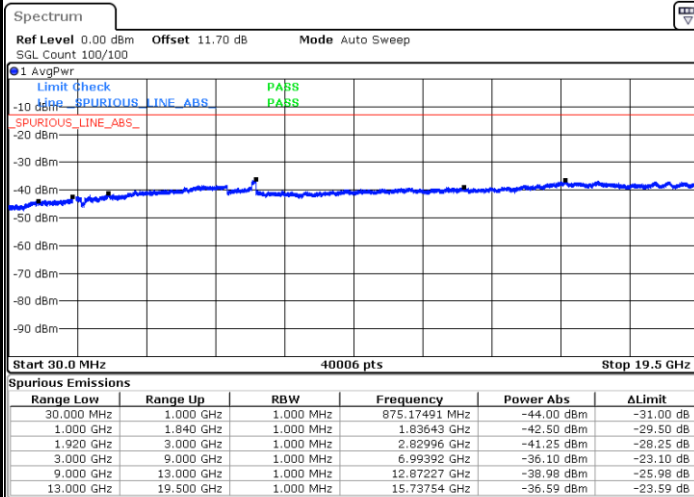


Date: 11.FEB.2020 03:47:05



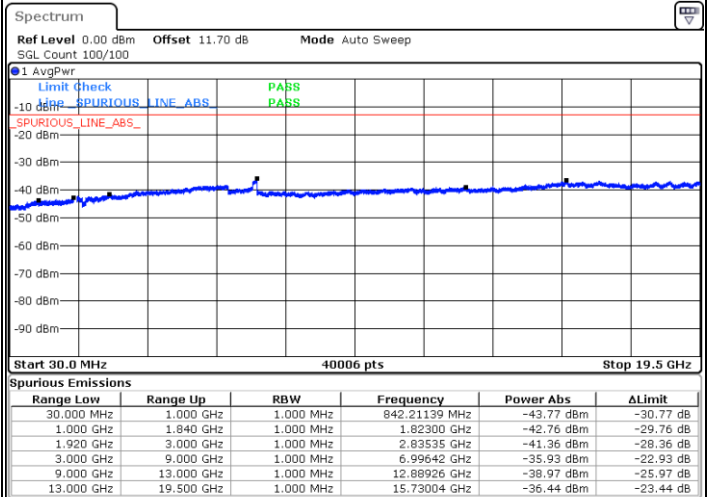
## LTE Band 2 / 5MHz

## Lowest Channel / 64QAM



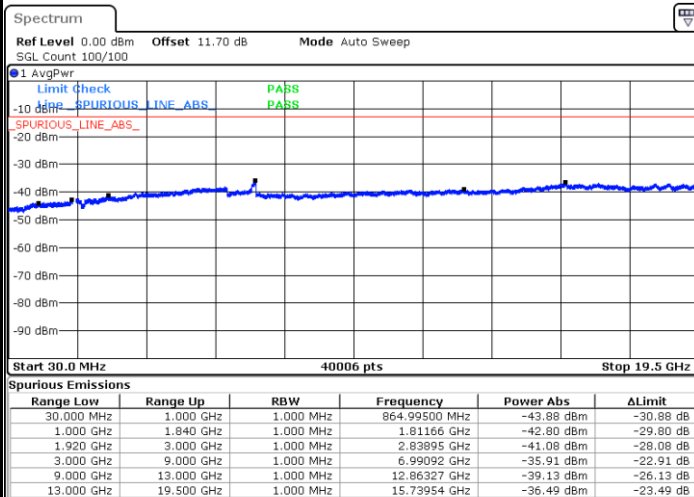
Date: 11.FEB.2020 03:50:49

## Middle Channel / 64QAM



Date: 11.FEB.2020 03:52:10

## Highest Channel / 64QAM

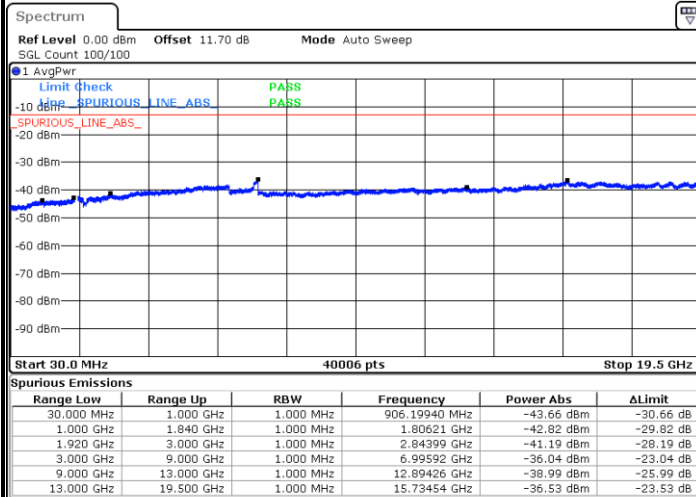


Date: 11.FEB.2020 03:55:54



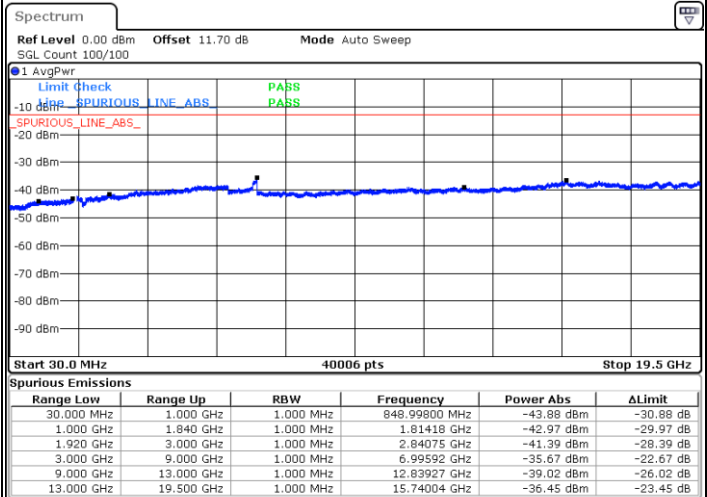
## LTE Band 2 / 10MHz

## Lowest Channel / 64QAM



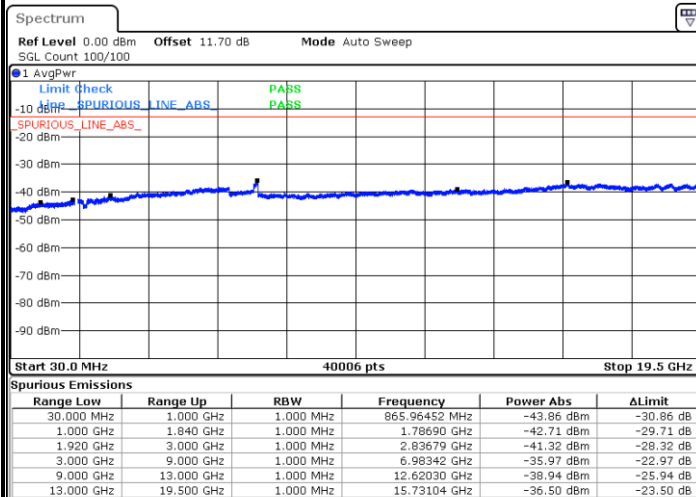
Date: 11.FEB.2020 03:59:38

## Middle Channel / 64QAM



Date: 11.FEB.2020 04:00:59

## Highest Channel / 64QAM

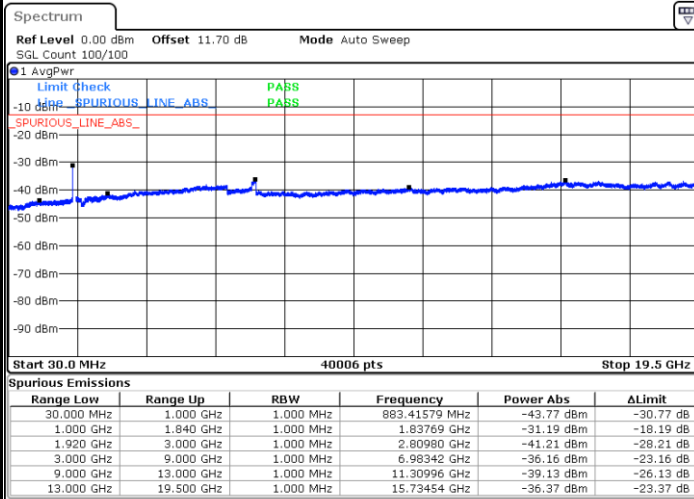


Date: 11.FEB.2020 04:04:42



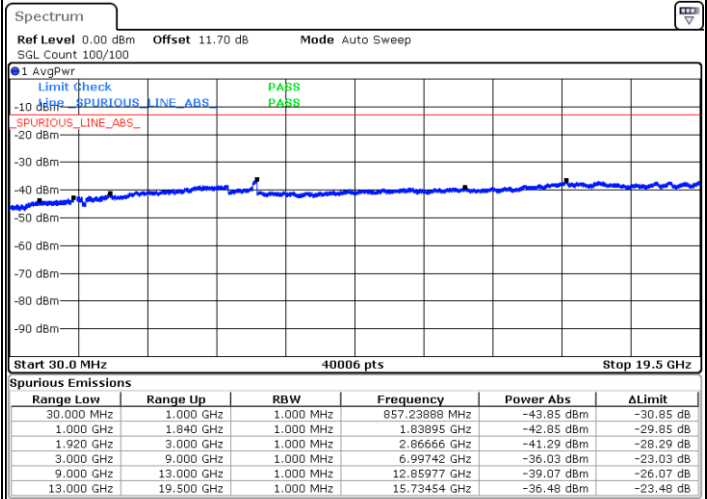
## LTE Band 2 / 15MHz

## Lowest Channel / 64QAM



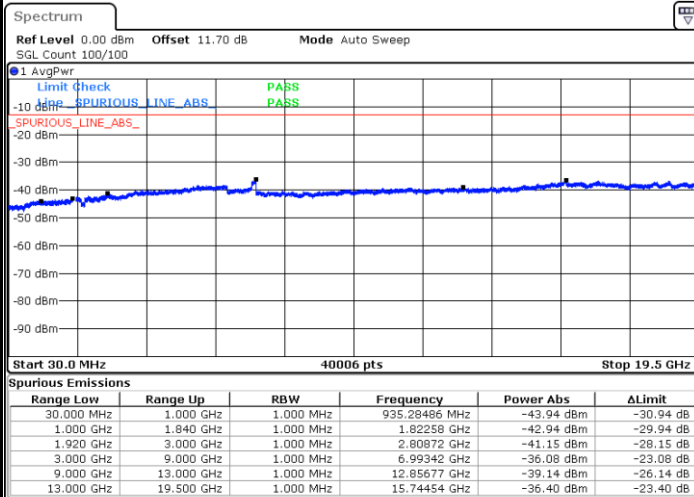
Date: 11.FEB.2020 04:08:26

## Middle Channel / 64QAM



Date: 11.FEB.2020 04:09:47

## Highest Channel / 64QAM

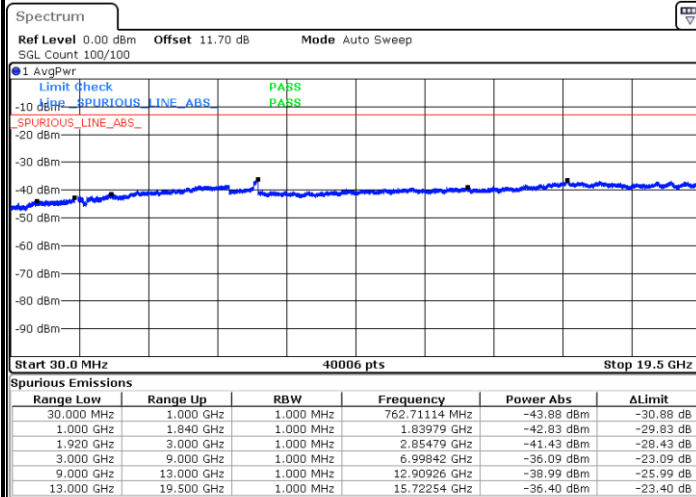


Date: 11.FEB.2020 04:13:31



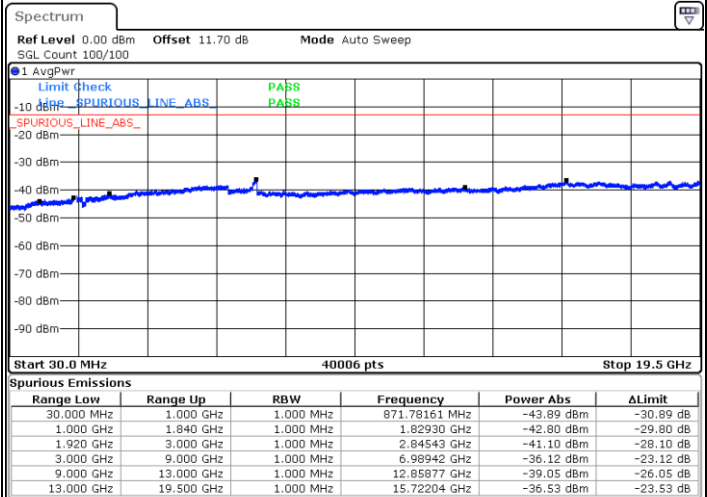
## LTE Band 2 / 20MHz

## Lowest Channel / 64QAM



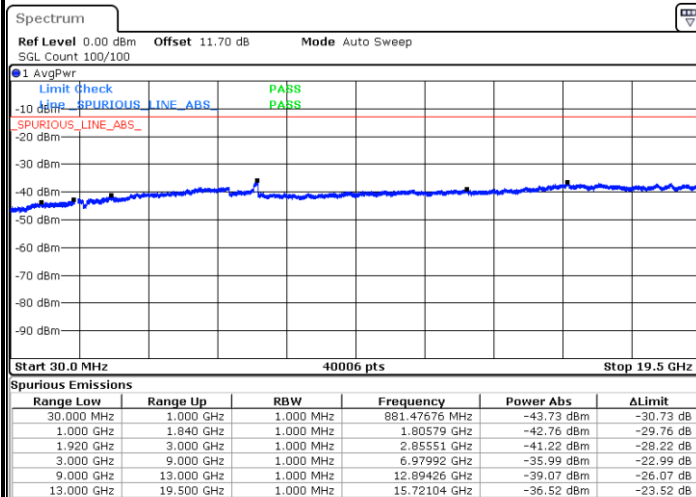
Date: 11.FEB.2020 04:17:15

## Middle Channel / 64QAM



Date: 11.FEB.2020 04:18:36

## Highest Channel / 64QAM



Date: 11.FEB.2020 04:22:20

## 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    | 0.0011                             | PASS    |
| 40               | Normal Voltage    | 0.0013                             |         |
| 30               | Normal Voltage    | 0.0006                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0007                             |         |
| 0                | Normal Voltage    | 0.0012                             |         |
| -10              | Normal Voltage    | 0.0005                             |         |
| -20              | Normal Voltage    | 0.0000                             |         |
| -30              | Normal Voltage    | 0.0004                             |         |
| 20               | Maximum Voltage   | 0.0002                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0007                             |         |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



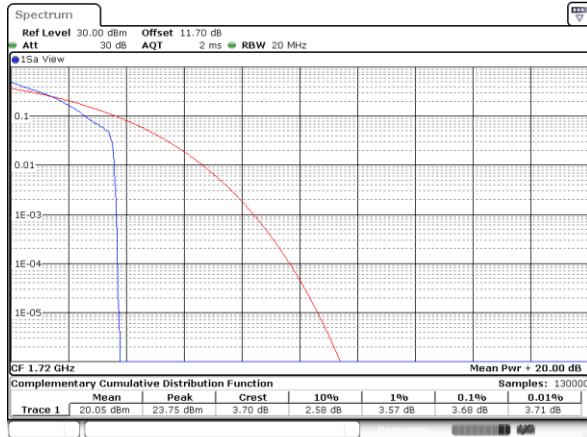
## LTE Band 4

**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  | 3.68               | 4.67    | 4.20  | 5.74    | PASS        |
| Middle CH  | 3.62               | 4.64    | 5.16  | 5.54    |             |
| Highest CH | 3.80               | 4.75    | 4.46  | 5.65    |             |
| Mode       | LTE Band 4 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 6.41               | 6.38    | -     | -       | PASS        |
| Middle CH  | 6.29               | 6.29    | -     | -       |             |
| Highest CH | 6.26               | 6.46    | -     | -       |             |

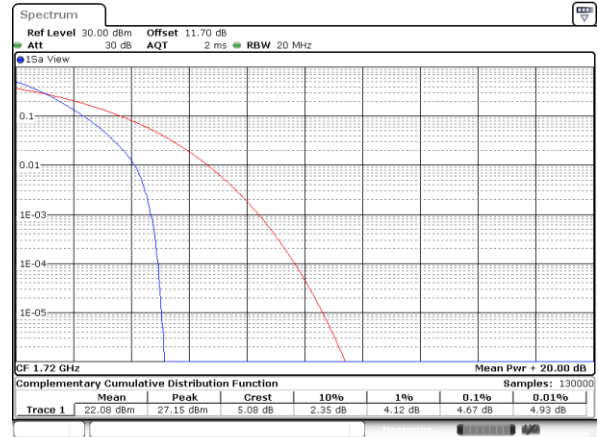
## LTE Band 4 / 20MHz / QPSK

### Lowest Channel / 1RB



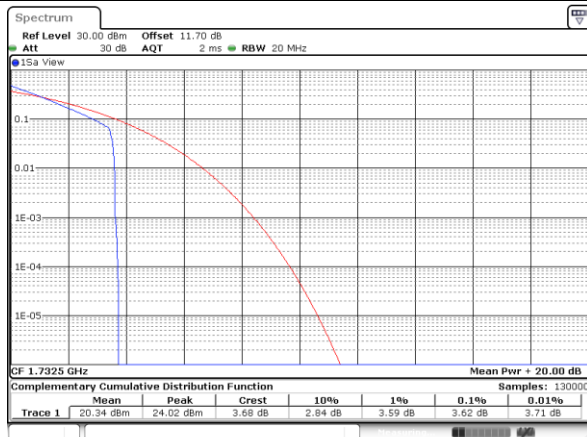
Date: 11.FEB.2020 01:34:03

### Lowest Channel / Full RB



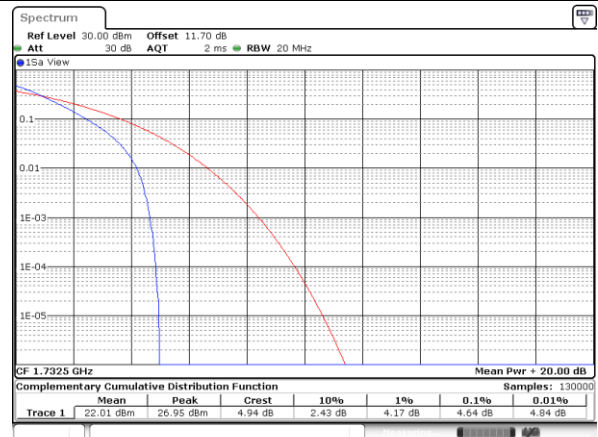
Date: 11.FEB.2020 01:34:21

### Middle Channel / 1RB



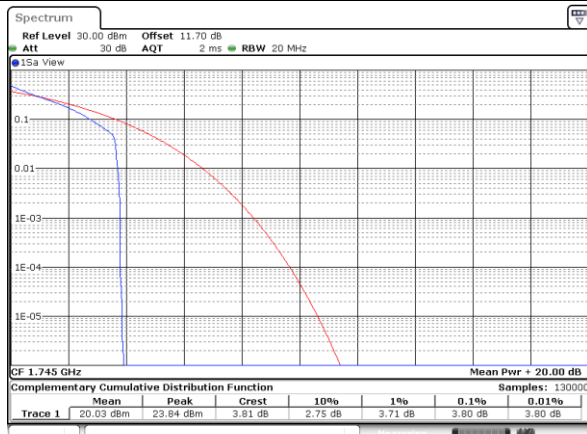
Date: 11.FEB.2020 01:34:41

### Middle Channel / Full RB



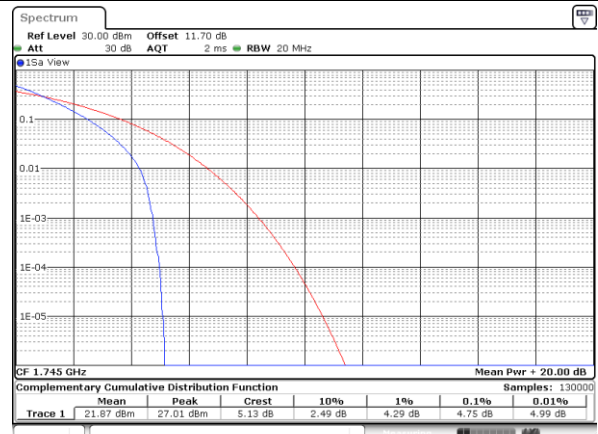
Date: 11.FEB.2020 01:34:54

### Highest Channel / 1RB



Date: 11.FEB.2020 01:35:10

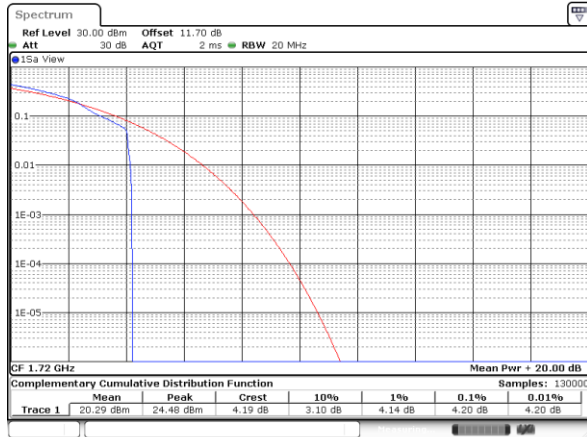
### Highest Channel / Full RB



Date: 11.FEB.2020 01:35:33

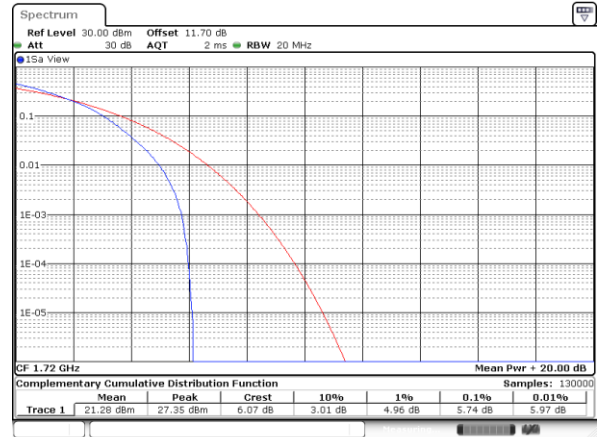
## LTE Band 4 / 20MHz / 16QAM

### Lowest Channel / 1RB



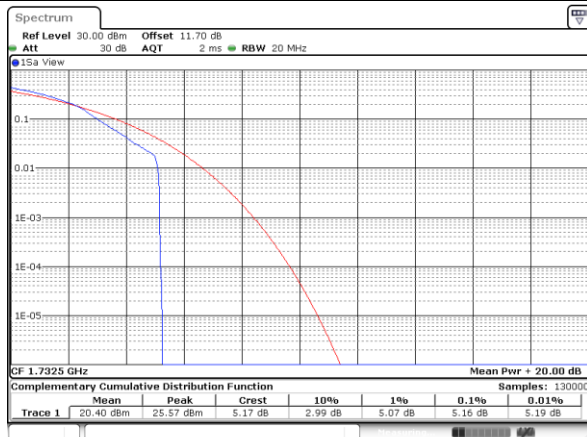
Date: 11.FEB.2020 01:11:08

### Lowest Channel / Full RB



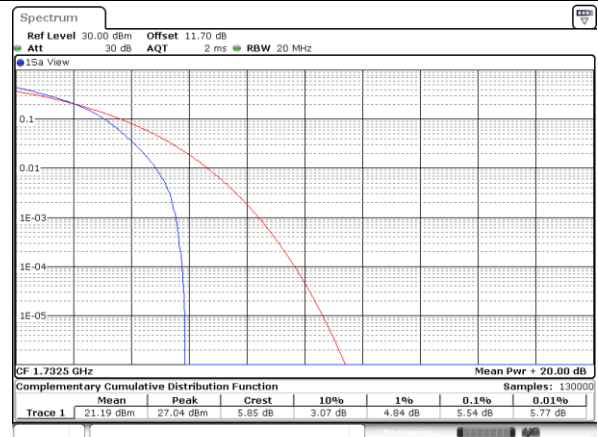
Date: 11.FEB.2020 01:11:24

### Middle Channel / 1RB



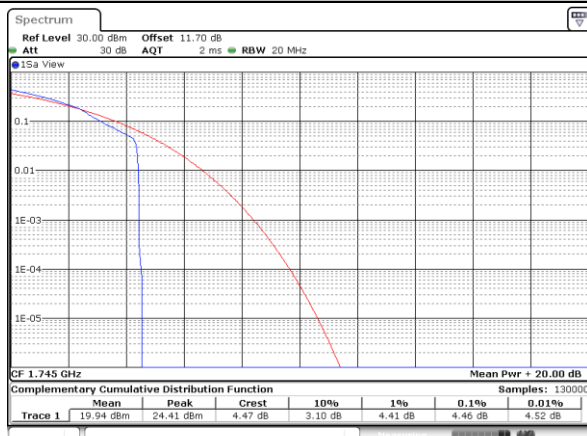
Date: 11.FEB.2020 01:17:08

### Middle Channel / Full RB



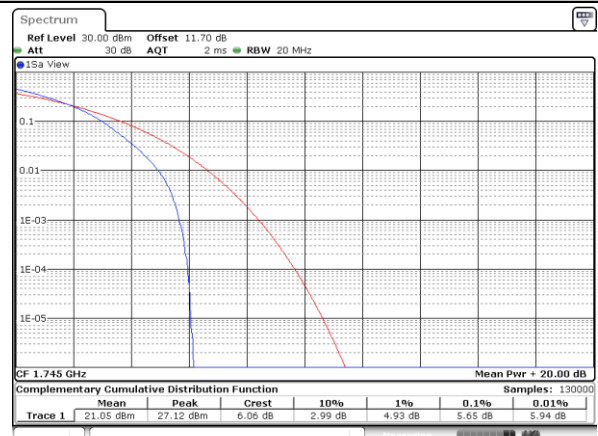
Date: 11.FEB.2020 01:24:09

### Highest Channel / 1RB



Date: 11.FEB.2020 01:25:17

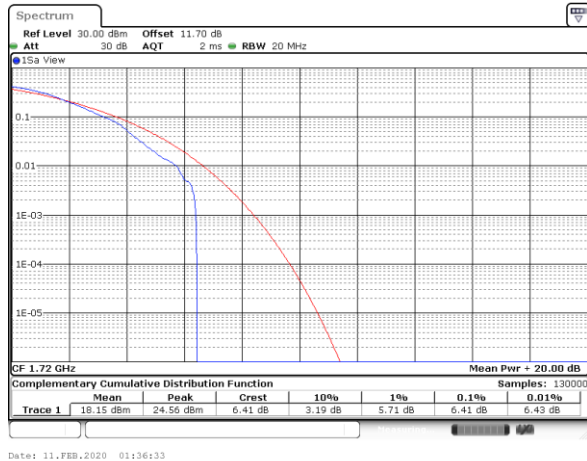
### Highest Channel / Full RB



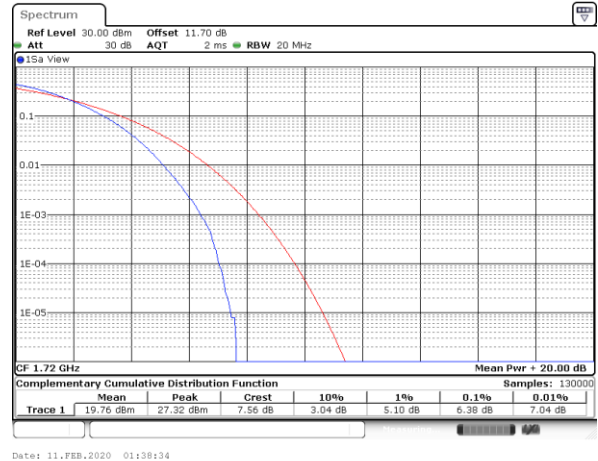
Date: 11.FEB.2020 01:25:34

## LTE Band 4 / 20MHz / 64QAM

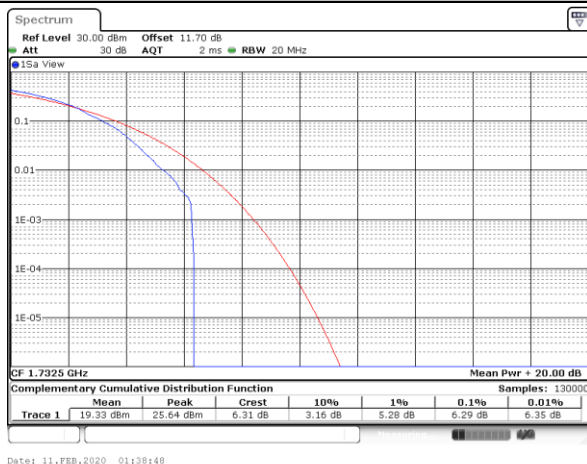
### Lowest Channel / 1RB



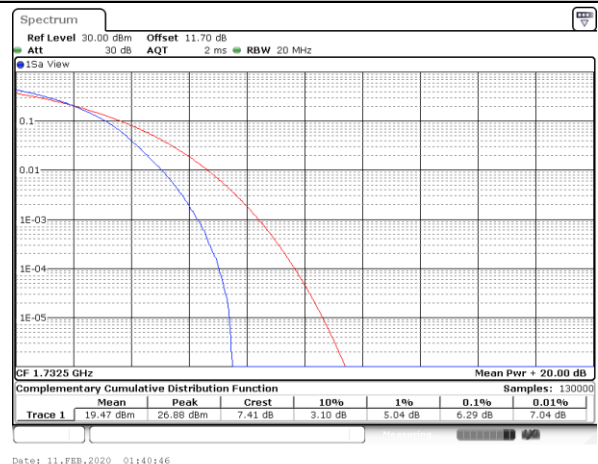
### Lowest Channel / Full RB



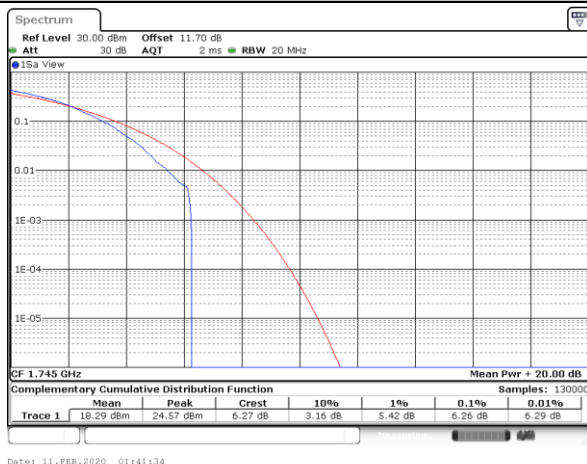
### Middle Channel / 1RB



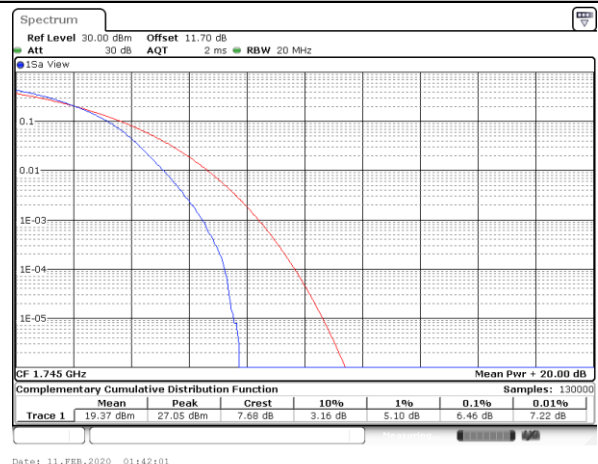
### Middle Channel / Full RB



### Highest Channel / 1RB



### Highest Channel / Full RB



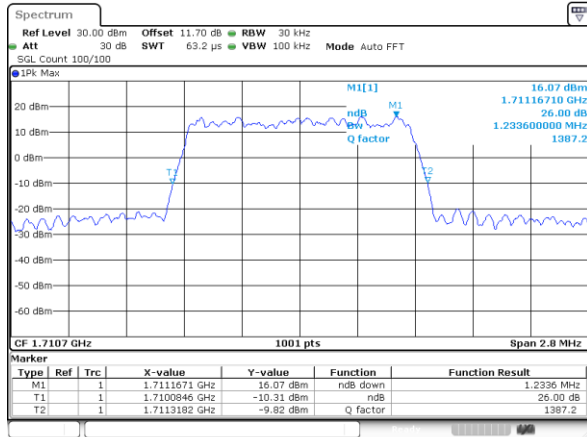
**26dB Bandwidth**

| 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  | 3.00  | 2.97  | 4.93  | 4.92  | 9.71  | 9.69  | 14.36 | 14.24 | 18.66 | 19.10 |
| Middle CH  | 1.23                      | 1.23  | 3.05  | 3.03  | 4.96  | 4.90  | 9.83  | 9.81  | 14.51 | 14.57 | 19.10 | 18.94 |
| Highest CH | 1.23                      | 1.23  | 3.02  | 3.00  | 4.93  | 4.97  | 9.83  | 9.83  | 14.72 | 14.36 | 18.94 | 18.86 |
| Mode       | LTE Band 4 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.21                      | -     | 3.04  | -     | 4.95  | -     | 9.89  | -     | 14.21 | -     | 19.22 | -     |
| Middle CH  | 1.22                      | -     | 3.02  | -     | 4.86  | -     | 9.93  | -     | 14.18 | -     | 18.78 | -     |
| Highest CH | 1.23                      | -     | 3.02  | -     | 4.89  | -     | 9.73  | -     | 14.51 | -     | 19.14 | -     |



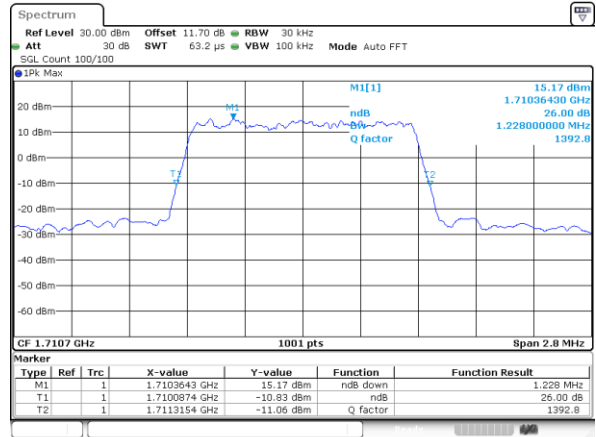
## LTE Band 4

## Lowest Channel / 1.4MHz / QPSK



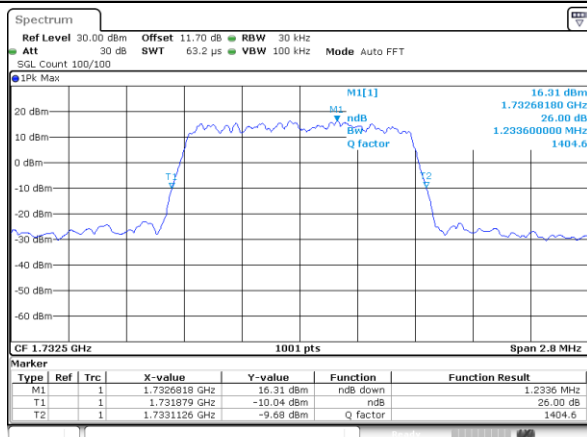
Date: 10.FEB.2020 20:13:47

## Lowest Channel / 1.4MHz / 16QAM



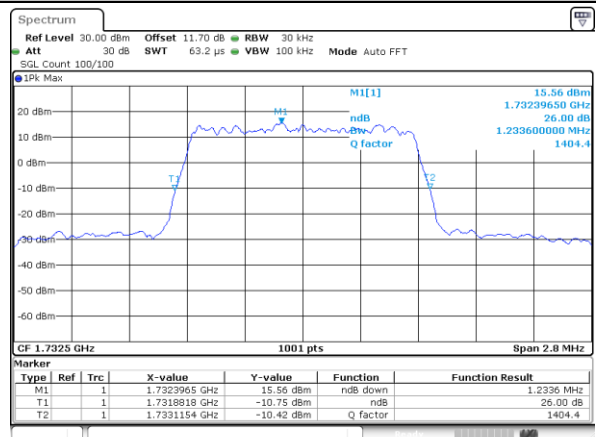
Date: 10.FEB.2020 20:14:00

## Middle Channel / 1.4MHz / QPSK



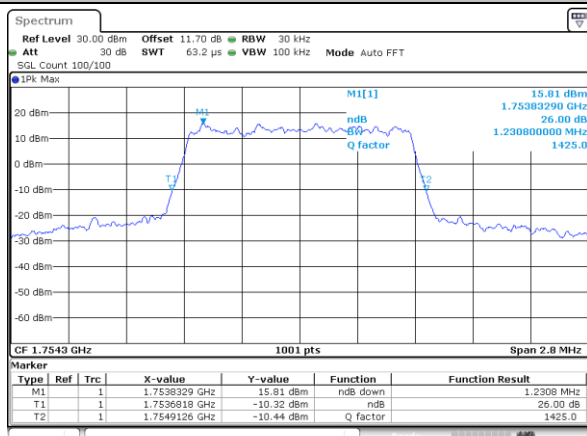
Date: 10.FEB.2020 20:20:48

## Middle Channel / 1.4MHz / 16QAM



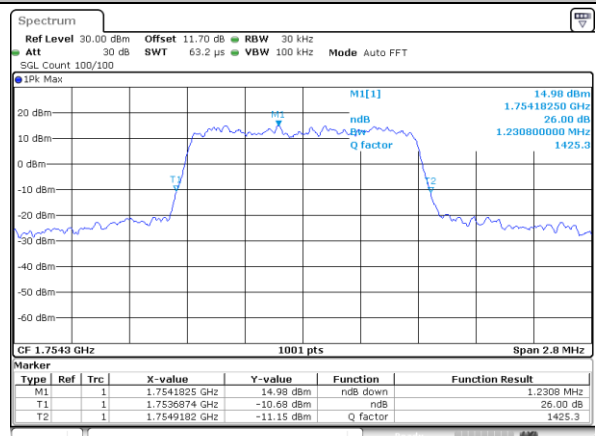
Date: 10.FEB.2020 20:21:02

## Highest Channel / 1.4MHz / QPSK



Date: 10.FEB.2020 20:23:30

## Highest Channel / 1.4MHz / 16QAM

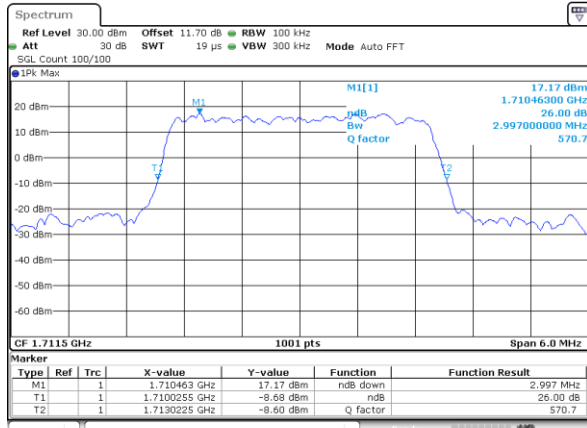


Date: 10.FEB.2020 20:23:44

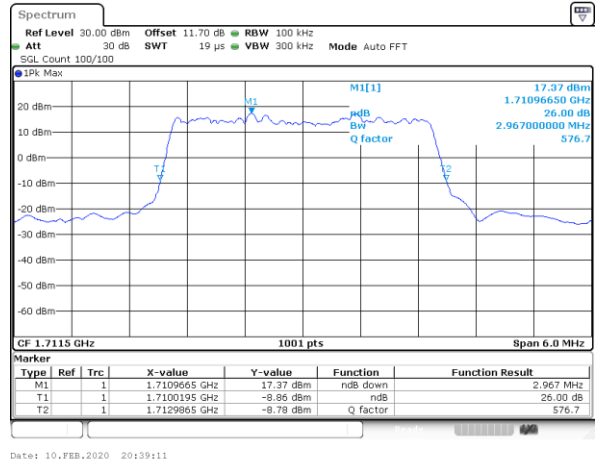


## LTE Band 4

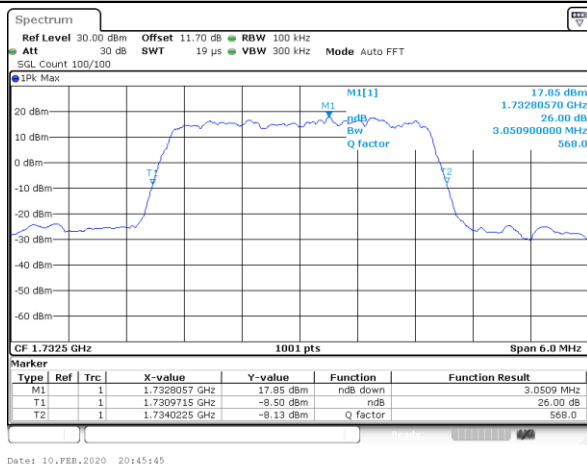
## Lowest Channel / 3MHz / QPSK



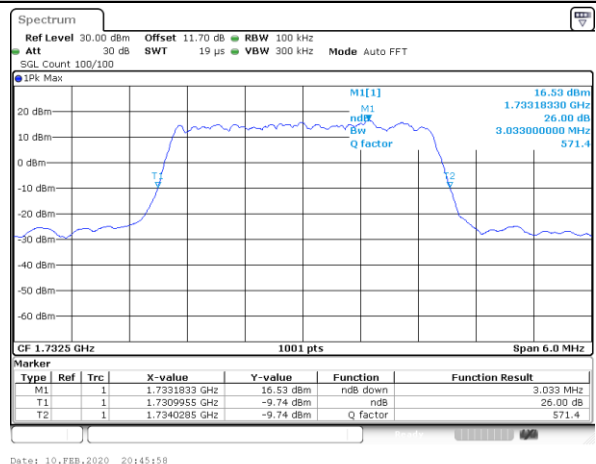
## Lowest Channel / 3MHz / 16QAM



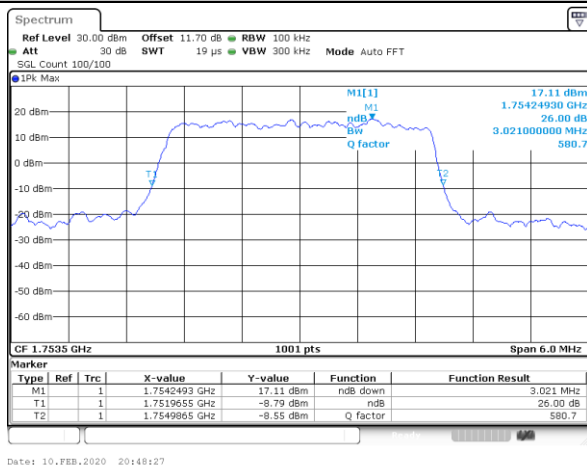
## Middle Channel / 3MHz / QPSK



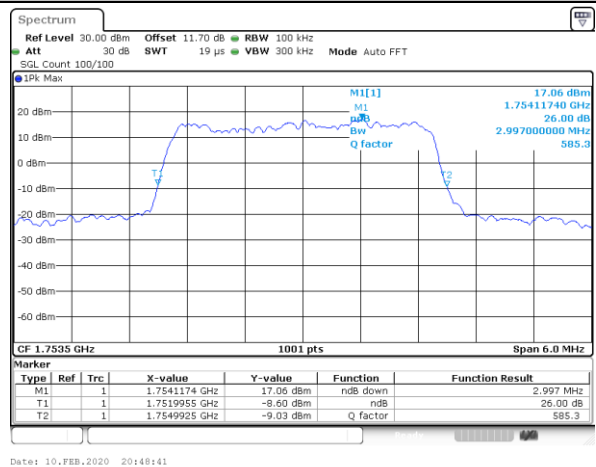
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



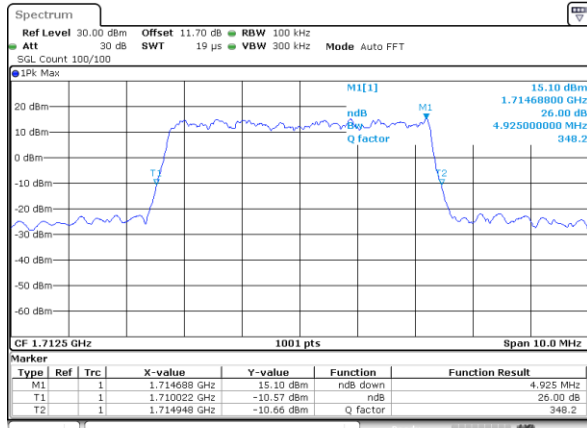
## Highest Channel / 3MHz / 16QAM





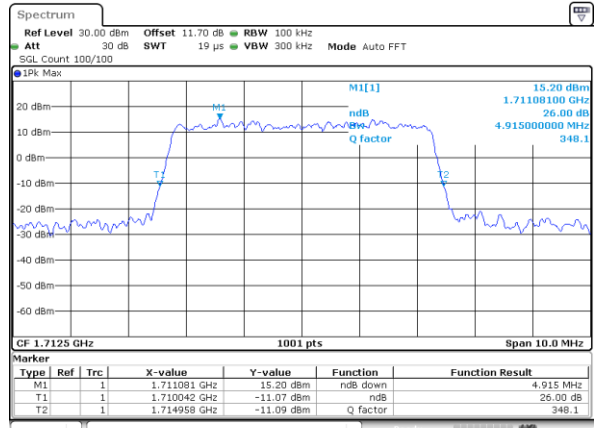
## LTE Band 4

## Lowest Channel / 5MHz / QPSK



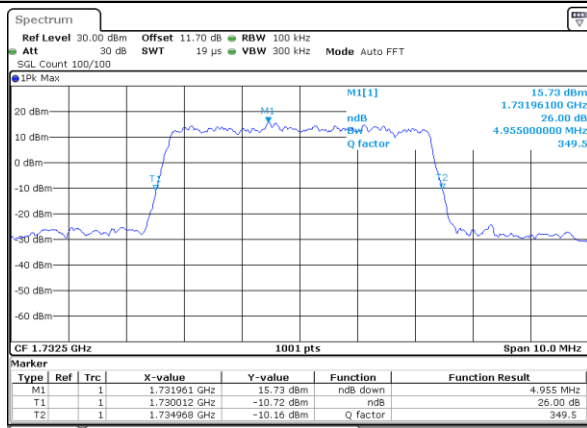
Date: 10.FEB.2020 21:11:33

## Lowest Channel / 5MHz / 16QAM



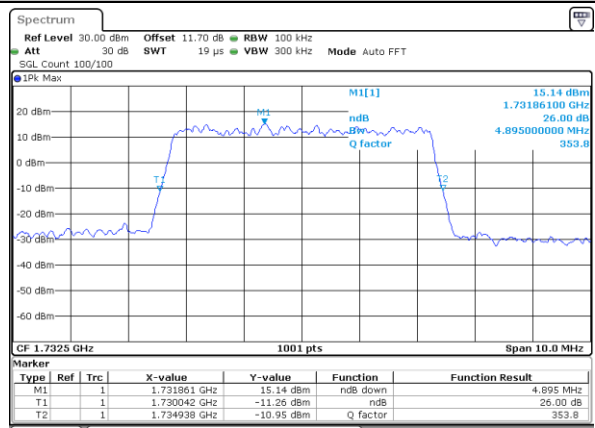
Date: 10.FEB.2020 21:11:47

## Middle Channel / 5MHz / QPSK



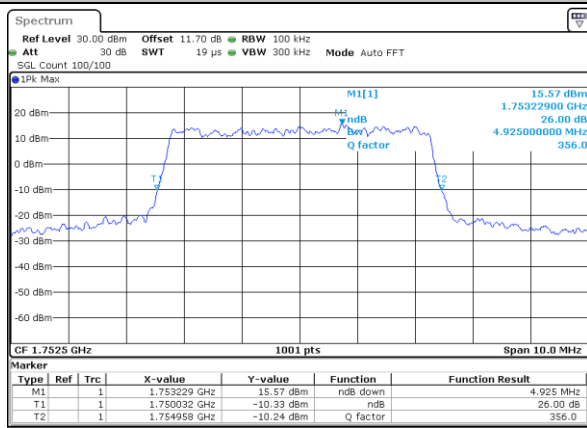
Date: 10.FEB.2020 21:18:20

## Middle Channel / 5MHz / 16QAM



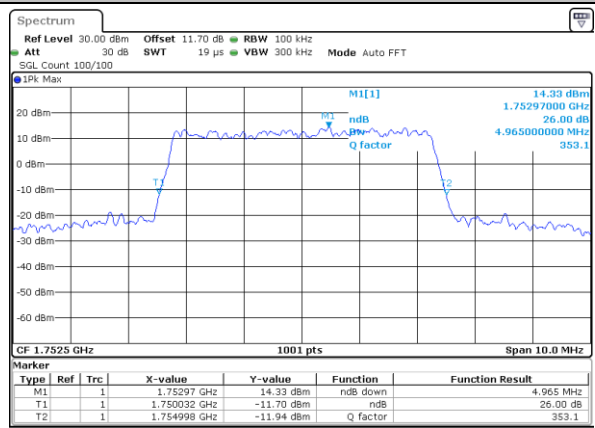
Date: 10.FEB.2020 21:18:33

## Highest Channel / 5MHz / QPSK



Date: 10.FEB.2020 21:21:02

## Highest Channel / 5MHz / 16QAM

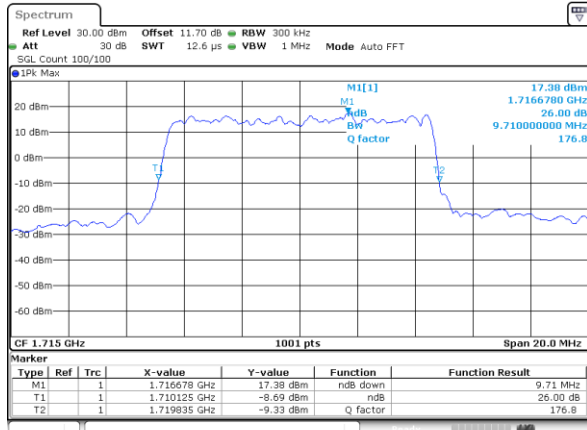


Date: 10.FEB.2020 21:21:16



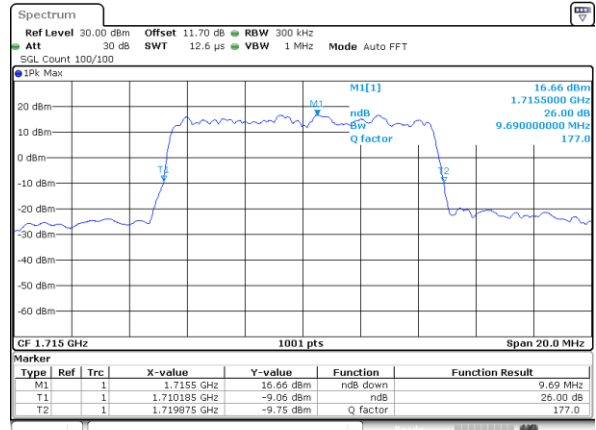
## LTE Band 4

## Lowest Channel / 10MHz / QPSK



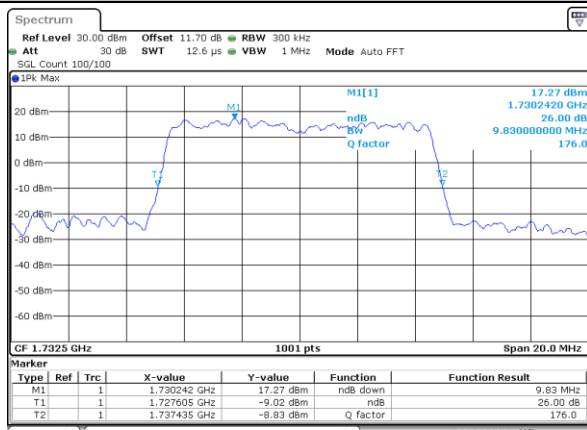
Date: 10.FEB.2020 21:27:51

## Lowest Channel / 10MHz / 16QAM



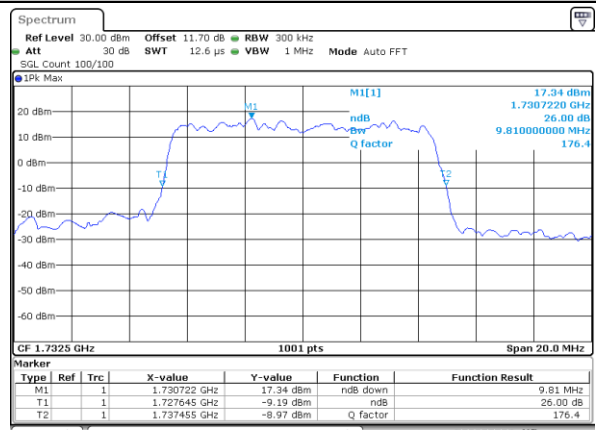
Date: 10.FEB.2020 21:28:05

## Middle Channel / 10MHz / QPSK



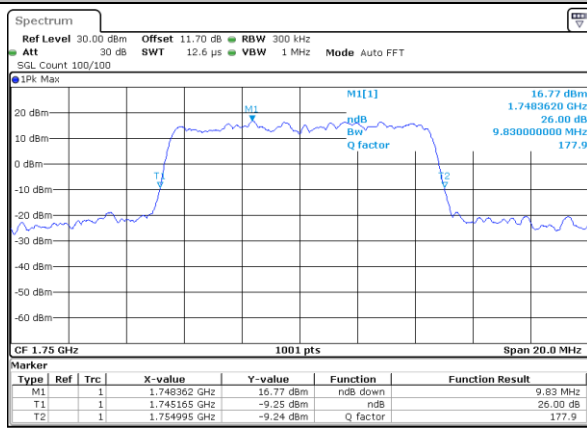
Date: 10.FEB.2020 21:34:38

## Middle Channel / 10MHz / 16QAM



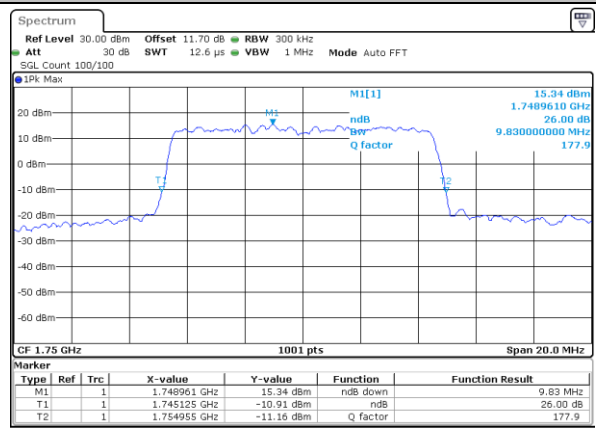
Date: 10.FEB.2020 21:34:52

## Highest Channel / 10MHz / QPSK



Date: 10.FEB.2020 21:37:21

## Highest Channel / 10MHz / 16QAM

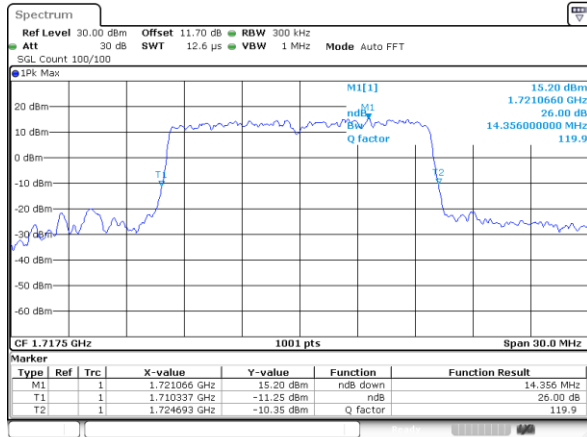


Date: 10.FEB.2020 21:37:35



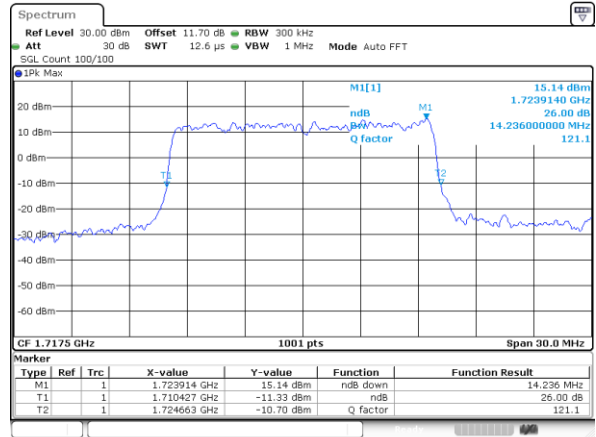
## LTE Band 4

## Lowest Channel / 15MHz / QPSK



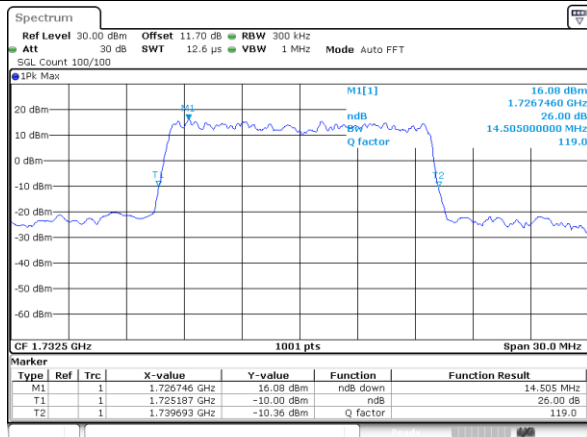
Date: 10.FEB.2020 21:52:19

## Lowest Channel / 15MHz / 16QAM



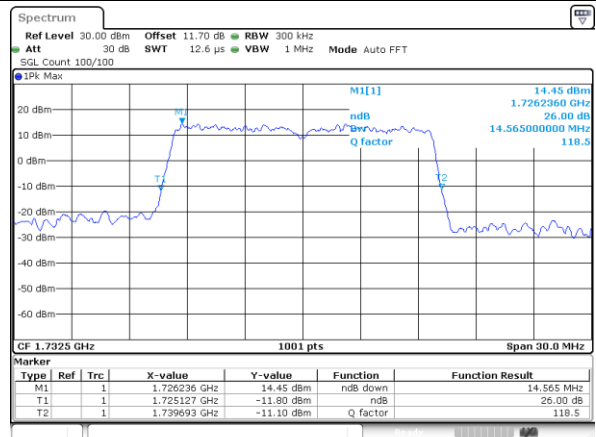
Date: 10.FEB.2020 21:52:32

## Middle Channel / 15MHz / QPSK



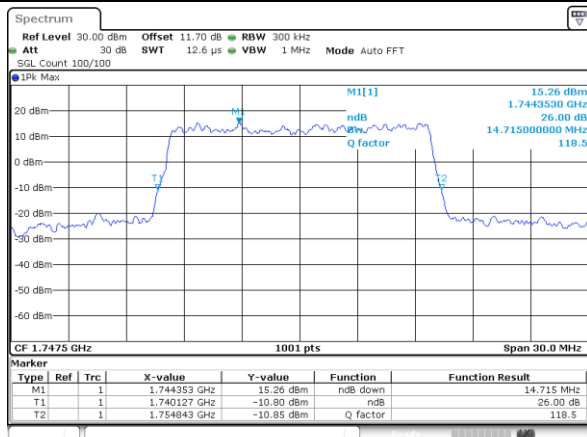
Date: 10.FEB.2020 21:59:06

## Middle Channel / 15MHz / 16QAM



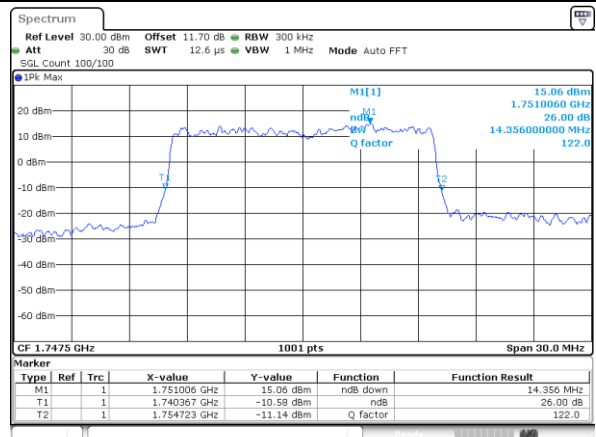
Date: 10.FEB.2020 21:59:19

## Highest Channel / 15MHz / QPSK



Date: 10.FEB.2020 22:01:49

## Highest Channel / 15MHz / 16QAM

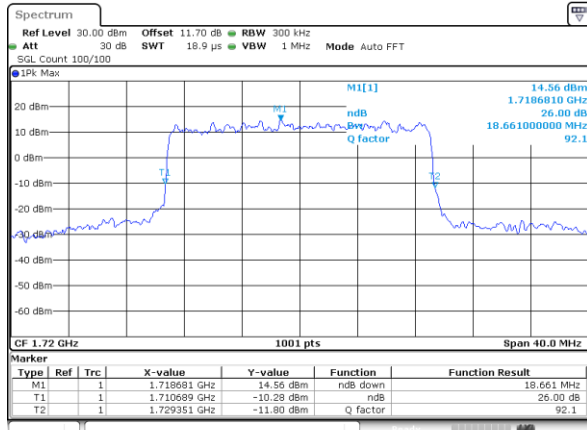


Date: 10.FEB.2020 22:02:03



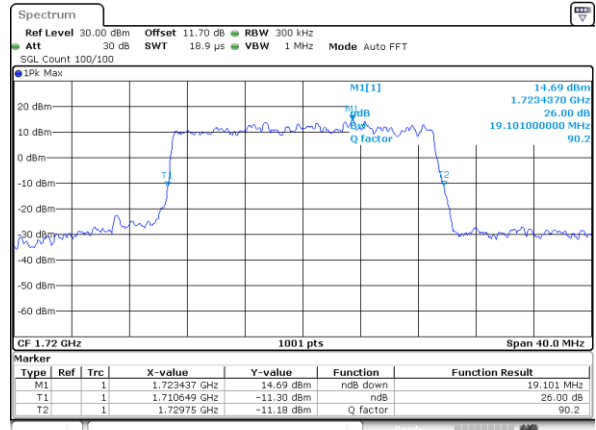
## LTE Band 4

## Lowest Channel / 20MHz / QPSK



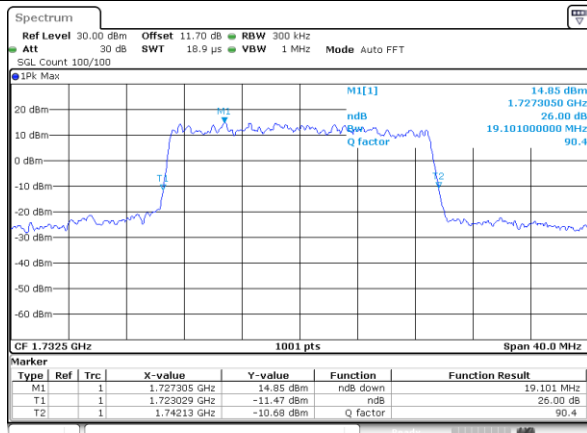
Date: 10.FEB.2020 22:16:46

## Lowest Channel / 20MHz / 16QAM



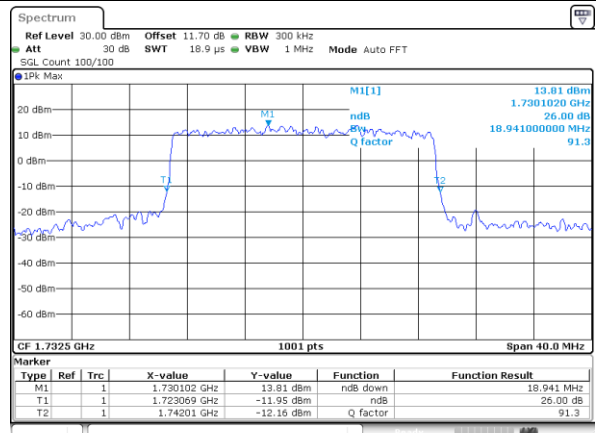
Date: 10.FEB.2020 22:17:00

## Middle Channel / 20MHz / QPSK



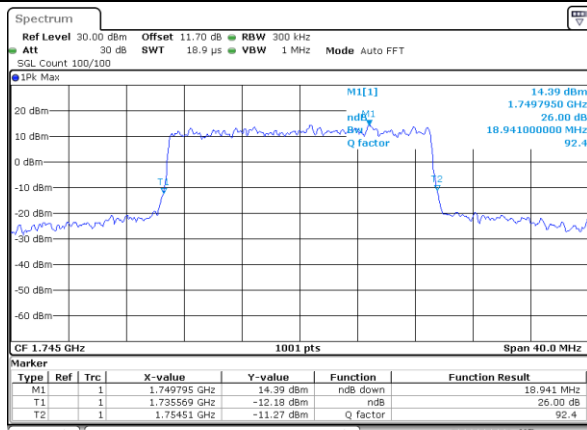
Date: 10.FEB.2020 22:23:33

## Middle Channel / 20MHz / 16QAM



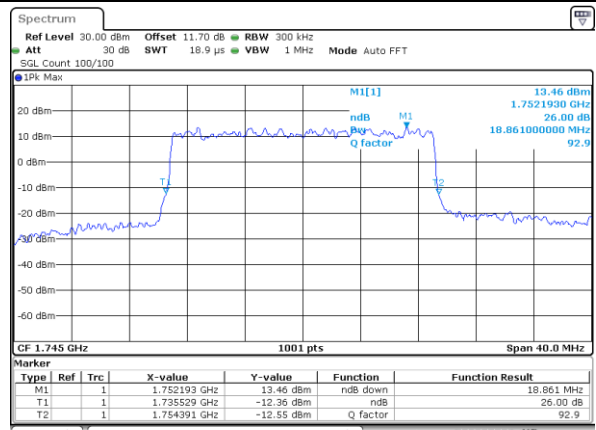
Date: 10.FEB.2020 22:23:47

## Highest Channel / 20MHz / QPSK



Date: 10.FEB.2020 22:26:16

## Highest Channel / 20MHz / 16QAM

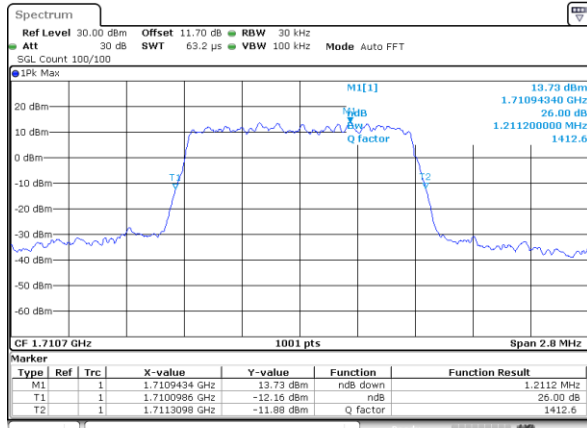


Date: 10.FEB.2020 22:26:30



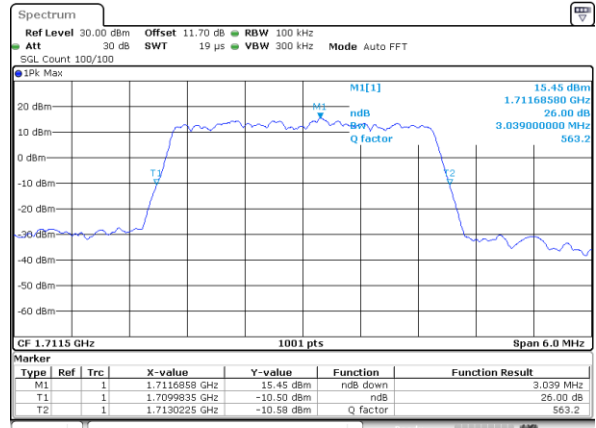
## LTE Band 4

## Lowest Channel / 1.4MHz / 64QAM



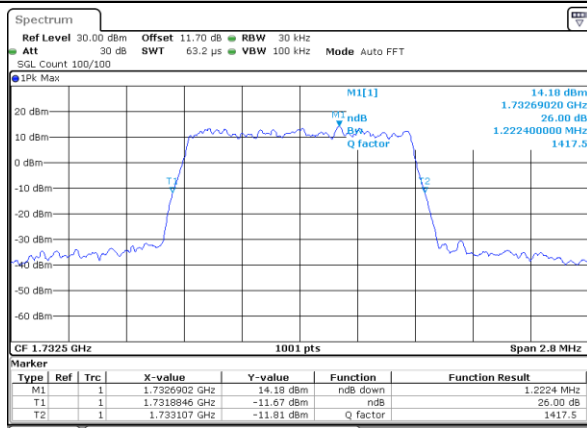
Date: 10.FEB.2020 20:30:20

## Lowest Channel / 3MHz / 64QAM



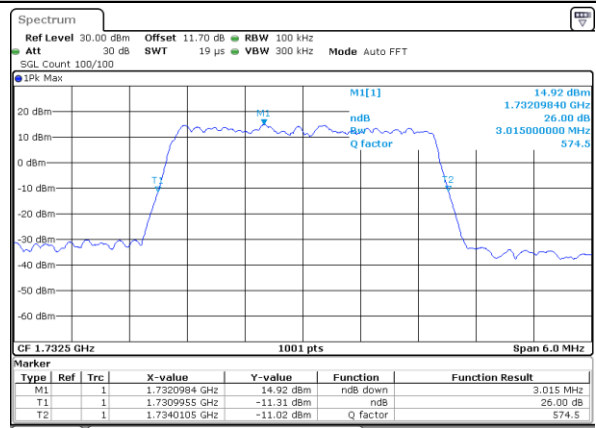
Date: 10.FEB.2020 20:55:02

## Middle Channel / 1.4MHz / 64QAM



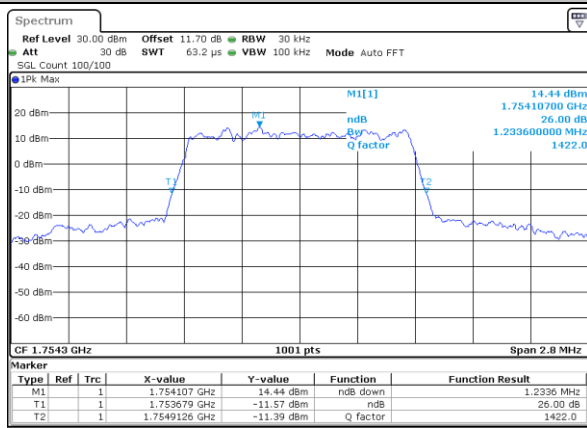
Date: 10.FEB.2020 20:33:51

## Middle Channel / 3MHz / 64QAM



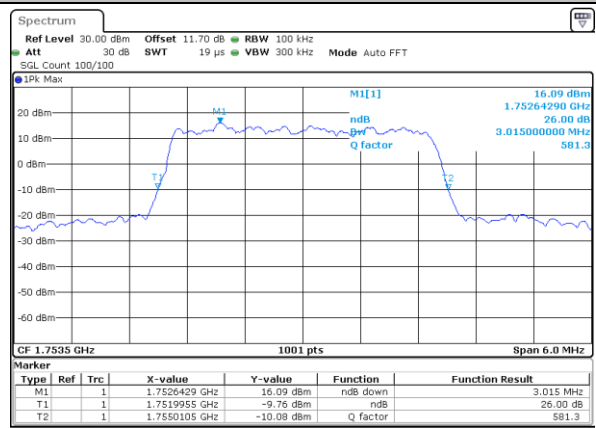
Date: 10.FEB.2020 20:58:25

## Highest Channel / 1.4MHz / 64QAM



Date: 10.FEB.2020 20:35:12

## Highest Channel / 3MHz / 64QAM

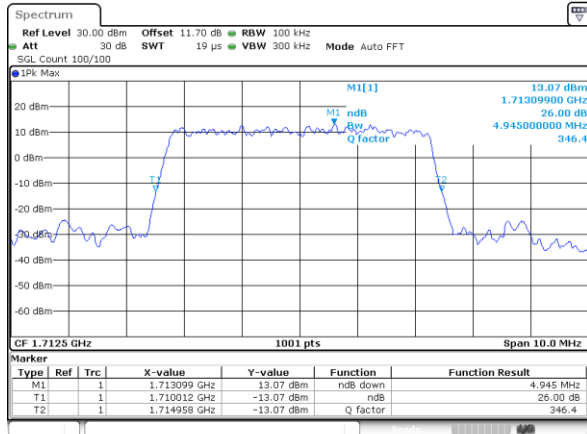


Date: 10.FEB.2020 20:59:46



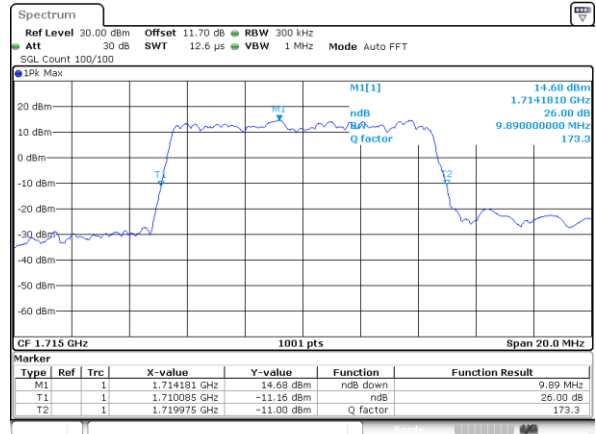
## LTE Band 4

## Lowest Channel / 5MHz / 64QAM



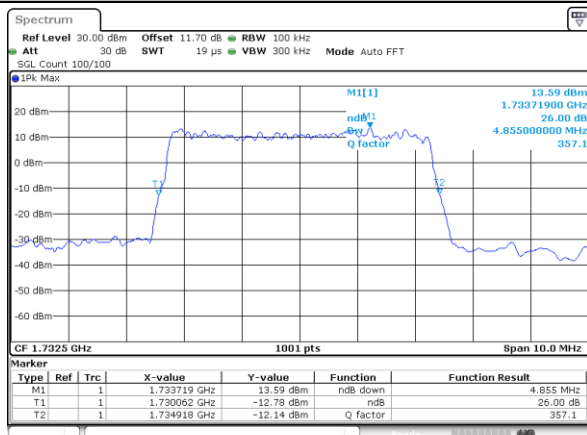
Date: 10.FEB.2020 21:03:10

## Lowest Channel / 10MHz / 64QAM



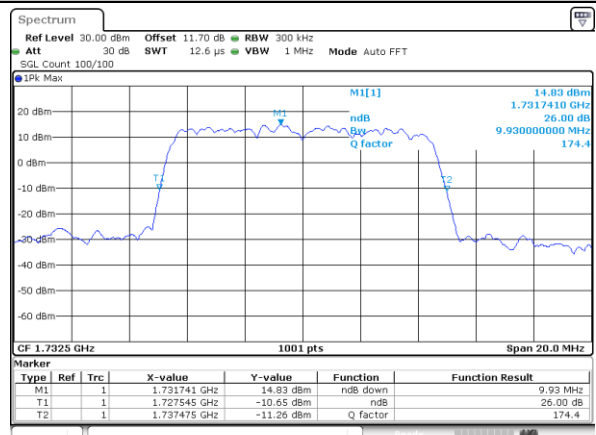
Date: 10.FEB.2020 21:43:56

## Middle Channel / 5MHz / 64QAM



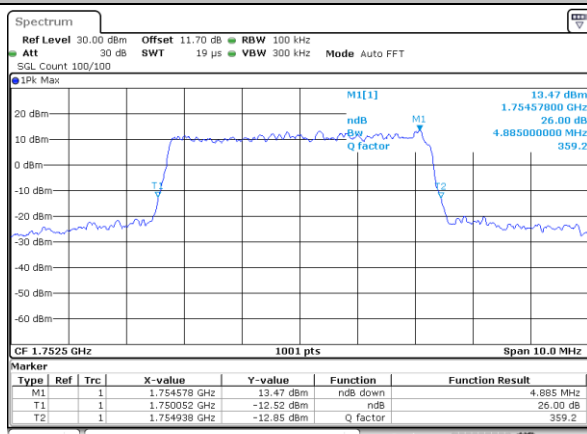
Date: 10.FEB.2020 21:06:34

## Middle Channel / 10MHz / 64QAM



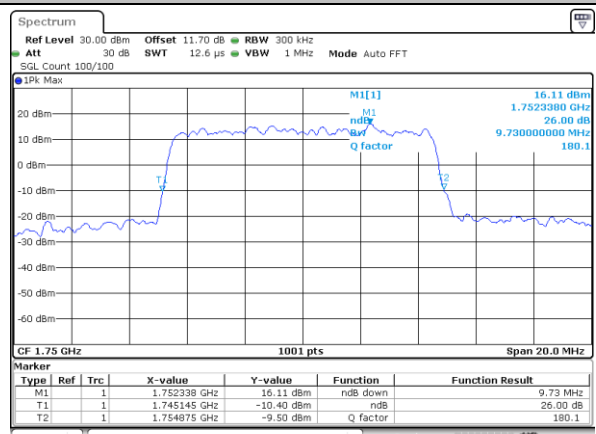
Date: 10.FEB.2020 21:47:19

## Highest Channel / 5MHz / 64QAM



Date: 10.FEB.2020 21:07:55

## Highest Channel / 10MHz / 64QAM



Date: 10.FEB.2020 21:48:40