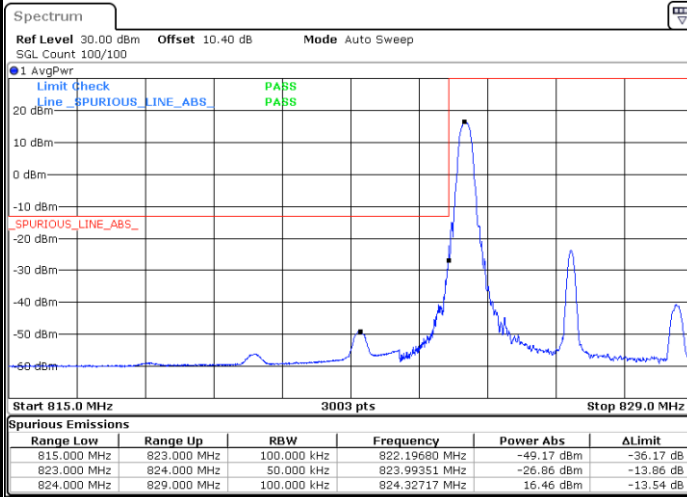




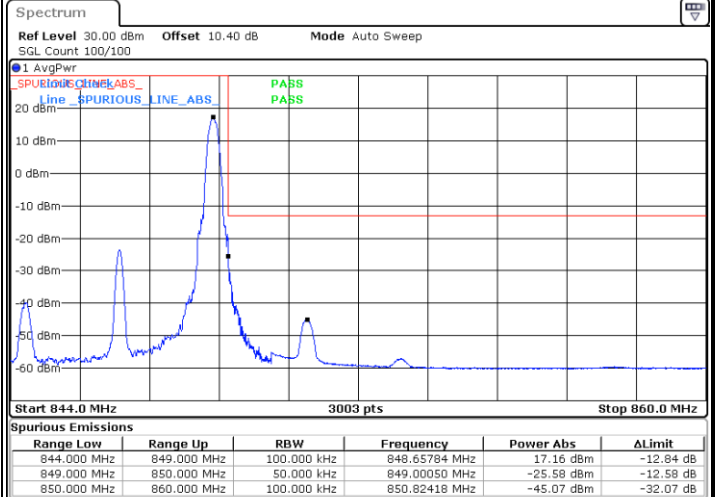
LTE Band 5 / 5MHz / 256QAM

Lowest Band Edge / 1RB



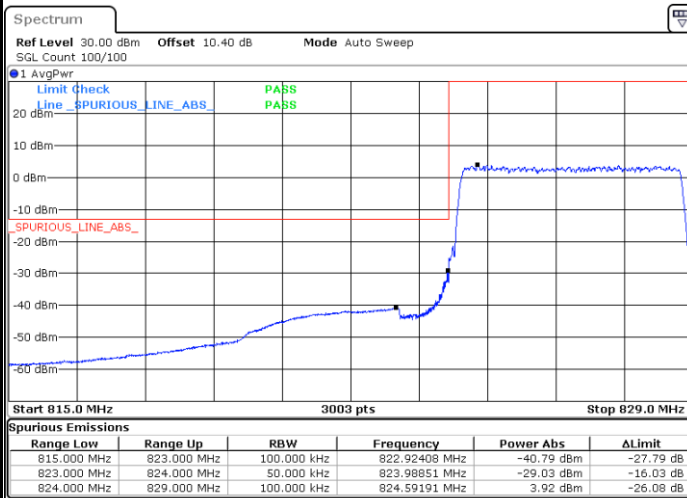
Date: 19.AUG.2022 17:00:59

Highest Band Edge / 1 RB



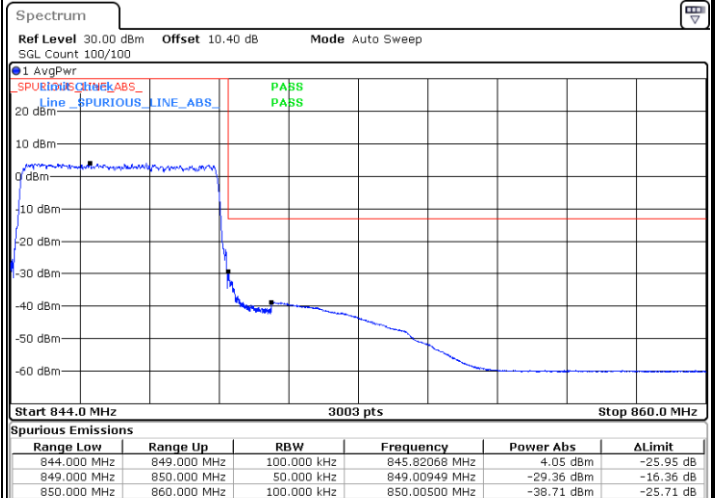
Date: 19.AUG.2022 17:03:43

Lowest Band Edge / Full RB



Date: 19.AUG.2022 17:02:01

Highest Band Edge / Full RB

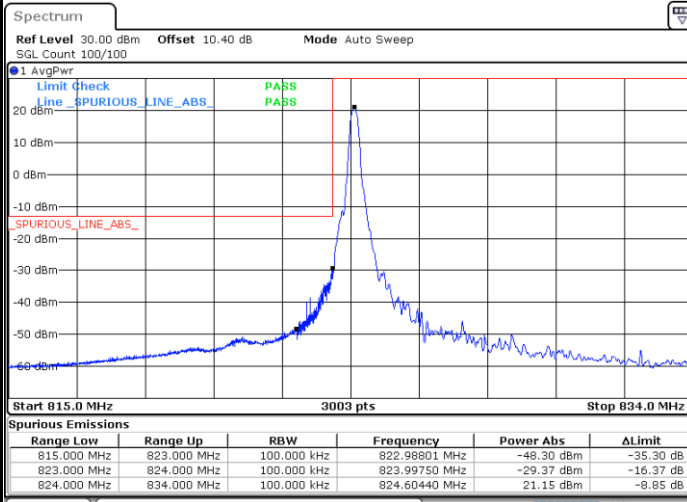


Date: 19.AUG.2022 17:04:46



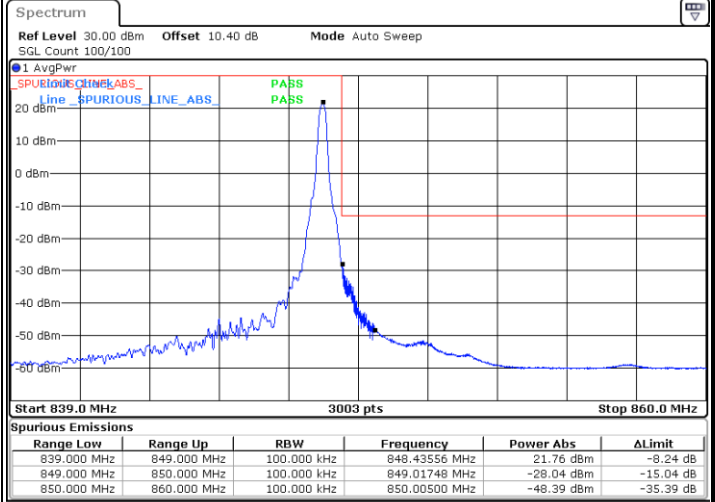
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



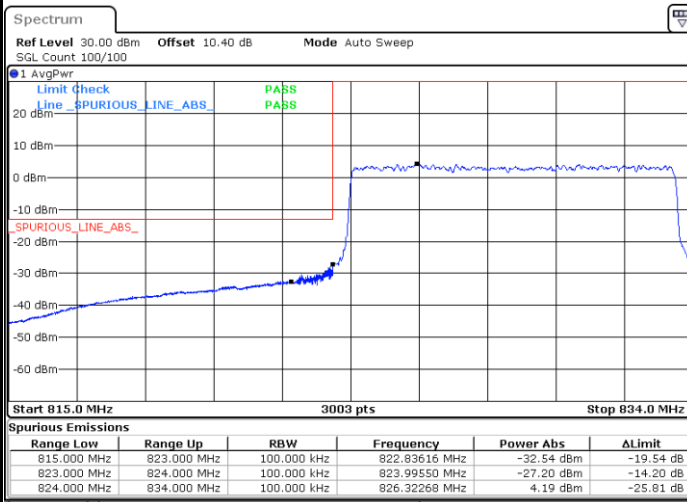
Date: 10.AUG.2022 05:47:41

Highest Band Edge / 1 RB



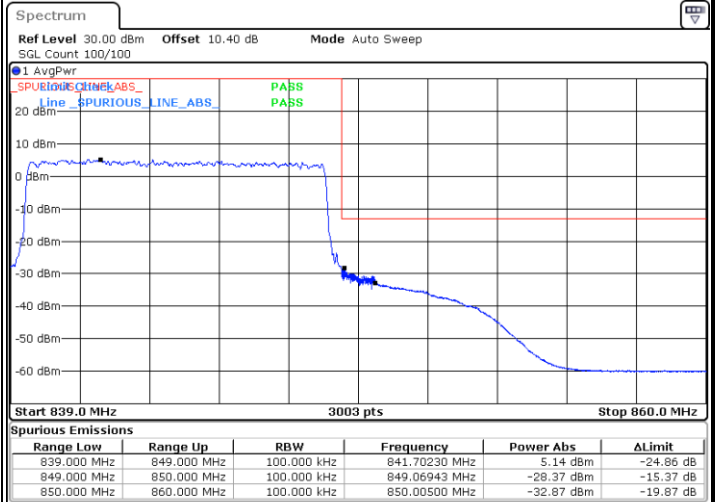
Date: 19.AUG.2022 17:27:55

Lowest Band Edge / Full RB



Date: 10.AUG.2022 05:49:49

Highest Band Edge / Full RB

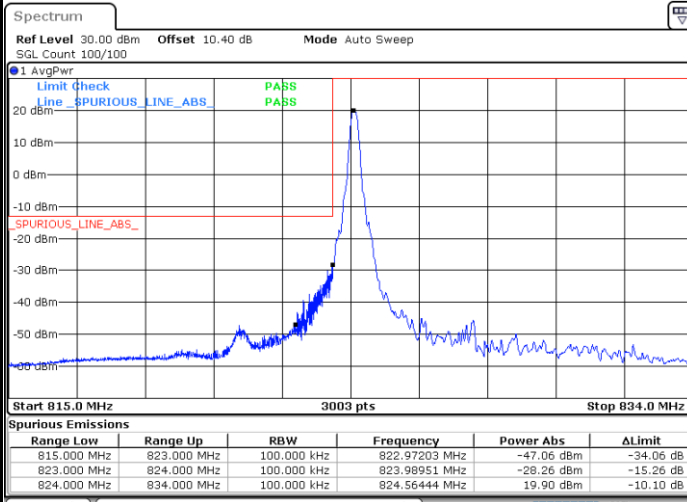


Date: 19.AUG.2022 17:29:53



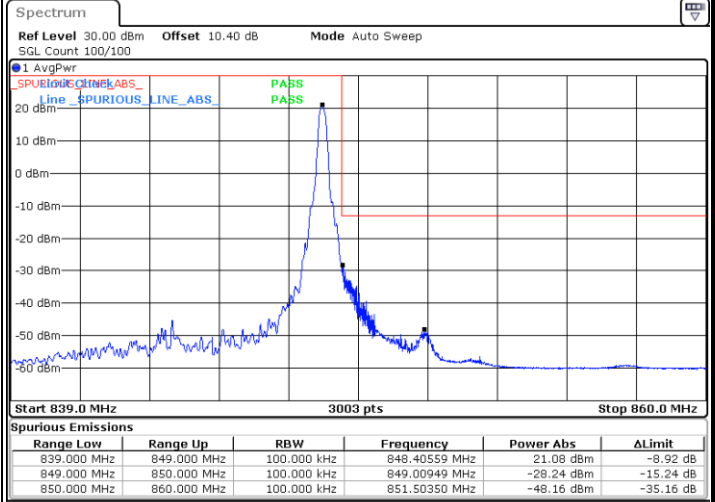
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



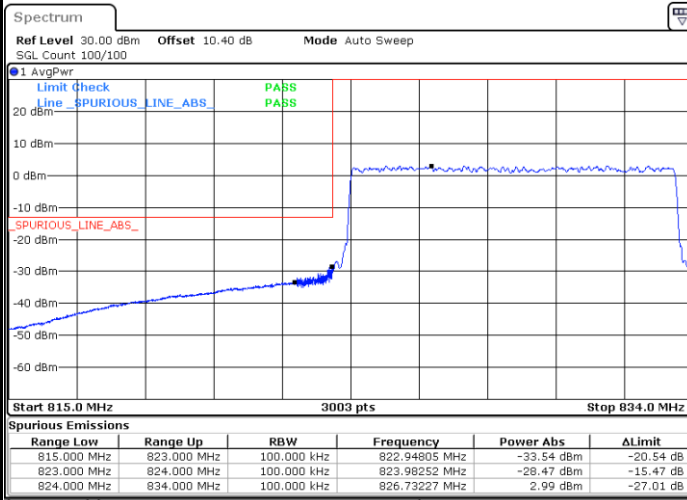
Date: 10.AUG.2022 05:48:45

Highest Band Edge / 1 RB



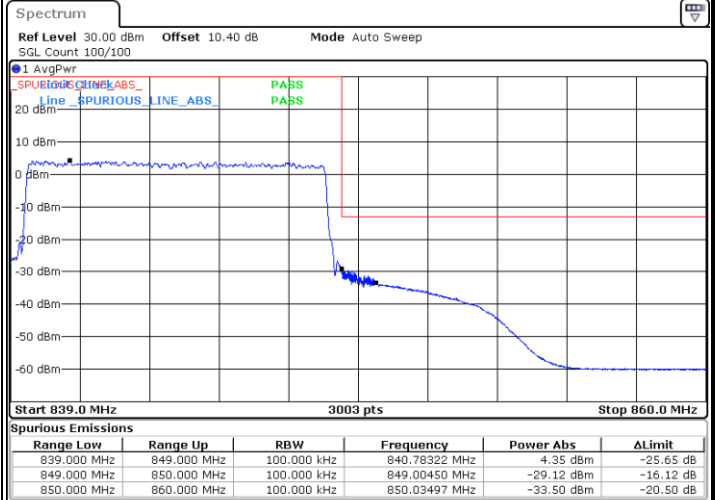
Date: 19.AUG.2022 17:28:54

Lowest Band Edge / Full RB



Date: 10.AUG.2022 05:50:52

Highest Band Edge / Full RB

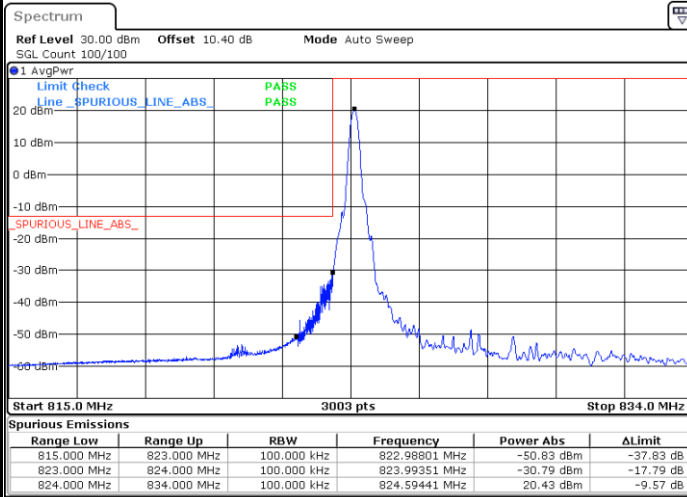


Date: 19.AUG.2022 17:30:53



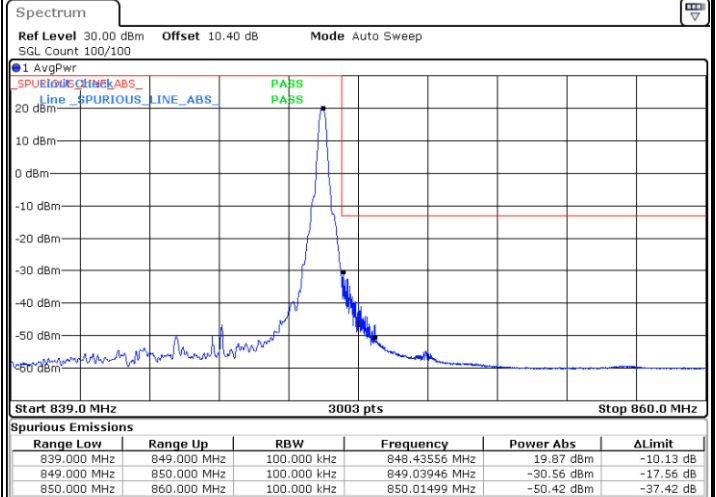
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



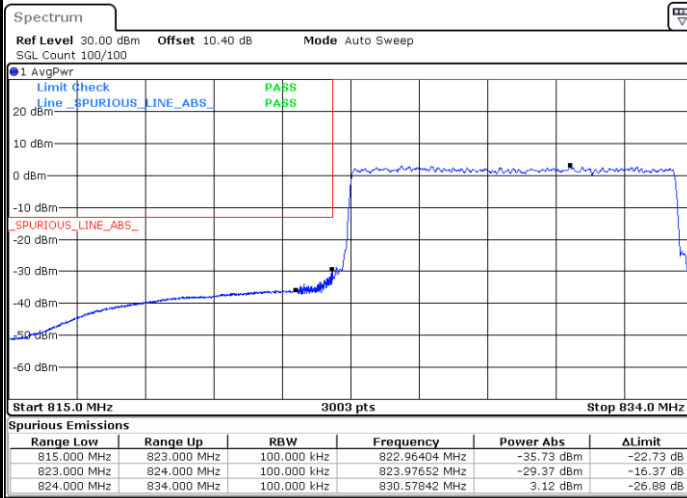
Date: 19.AUG.2022 17:33:10

Highest Band Edge / 1 RB



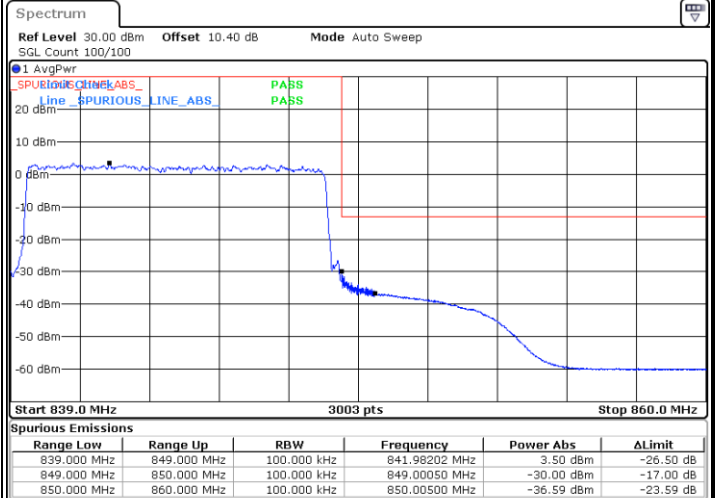
Date: 19.AUG.2022 17:35:51

Lowest Band Edge / Full RB



Date: 19.AUG.2022 17:34:09

Highest Band Edge / Full RB

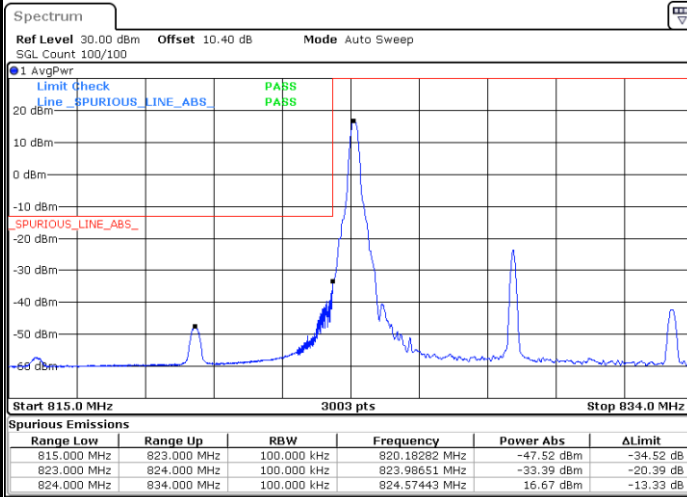


Date: 19.AUG.2022 17:36:50



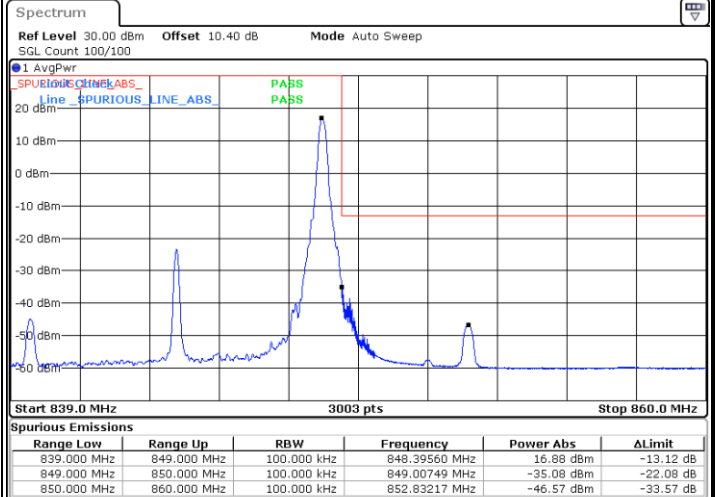
LTE Band 5 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



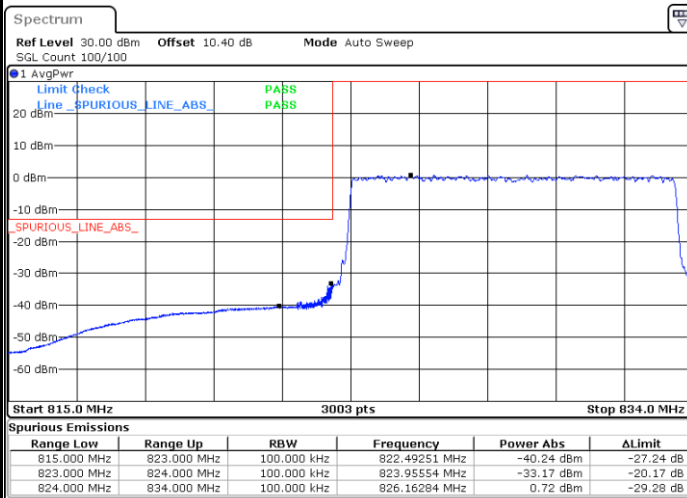
Date: 19.AUG.2022 17:05:50

Highest Band Edge / 1 RB



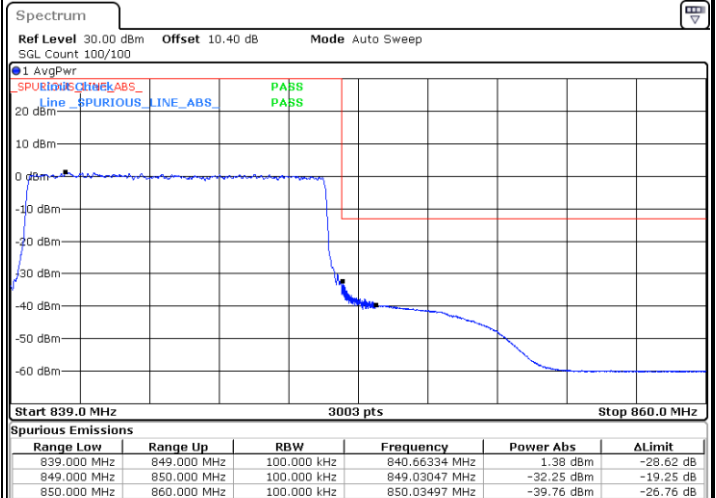
Date: 19.AUG.2022 17:08:34

Lowest Band Edge / Full RB



Date: 19.AUG.2022 17:06:52

Highest Band Edge / Full RB



Date: 19.AUG.2022 17:09:36

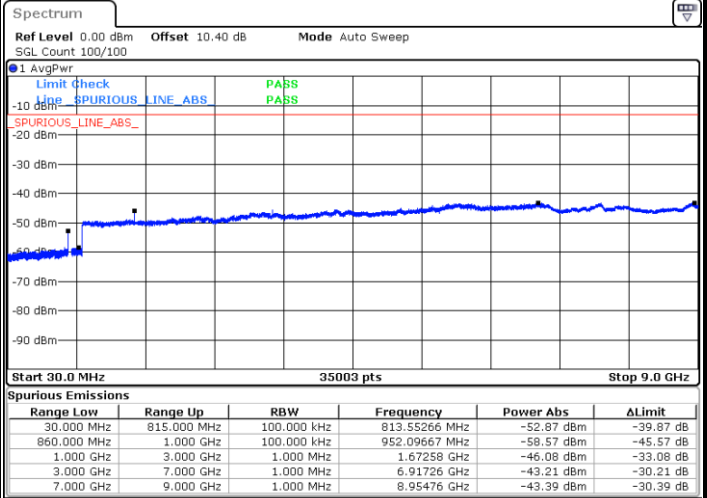
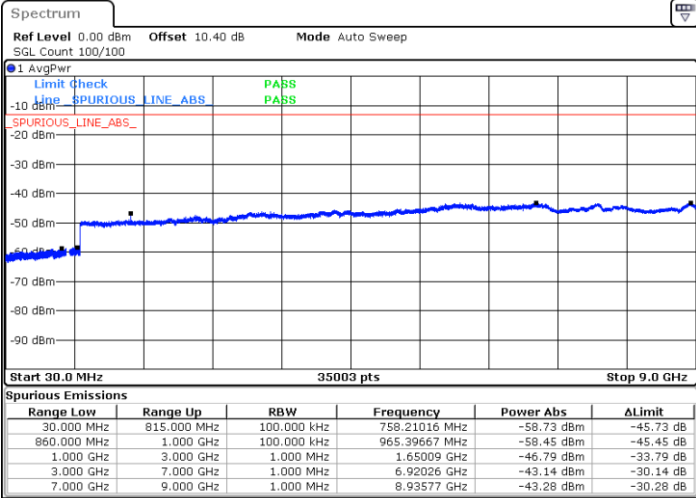


# Conducted Spurious Emission

## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK

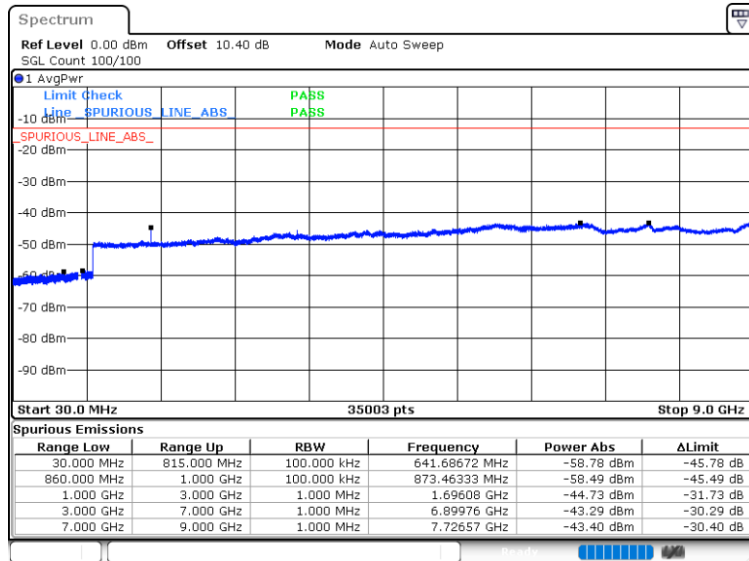
### Middle Channel / QPSK



Date: 10.AUG.2022 04:54:18

Date: 10.AUG.2022 04:57:32

### Highest Channel / QPSK



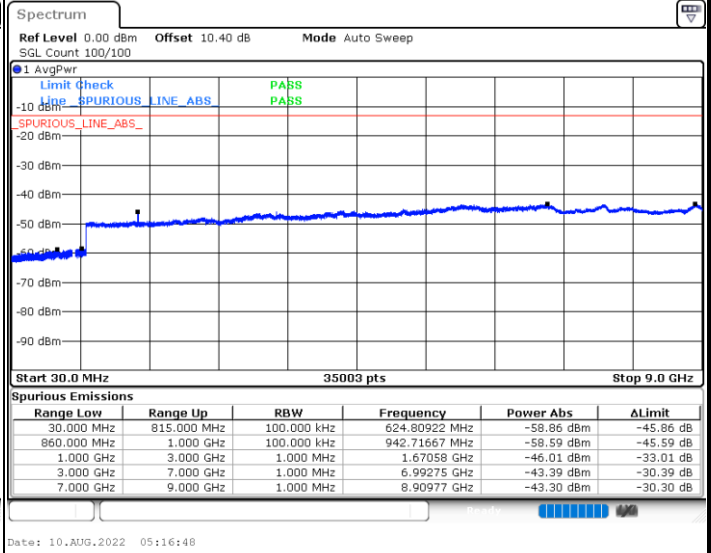
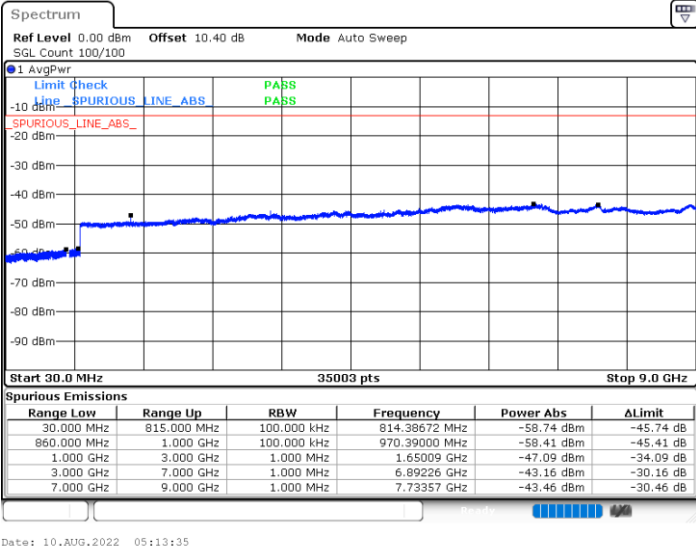
Date: 10.AUG.2022 05:03:04



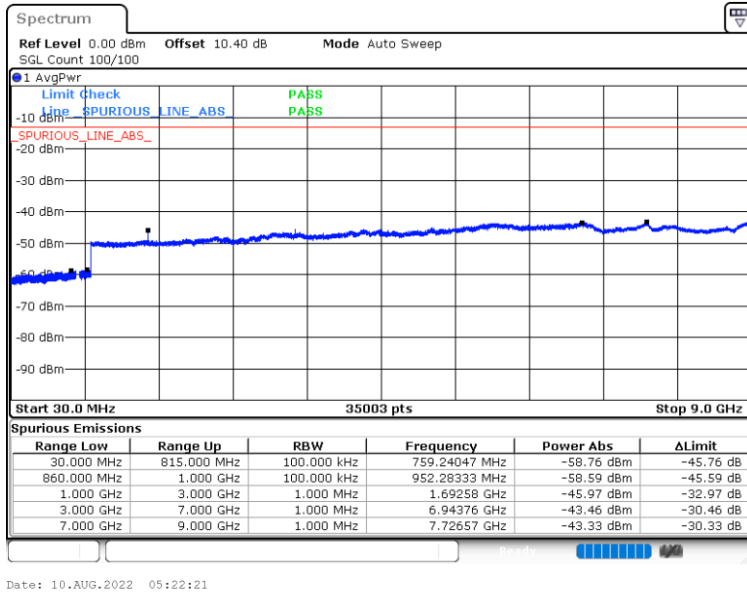
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

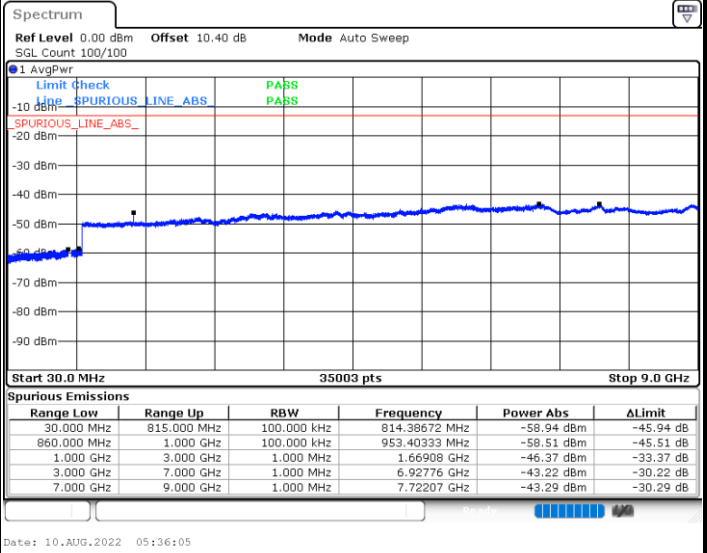
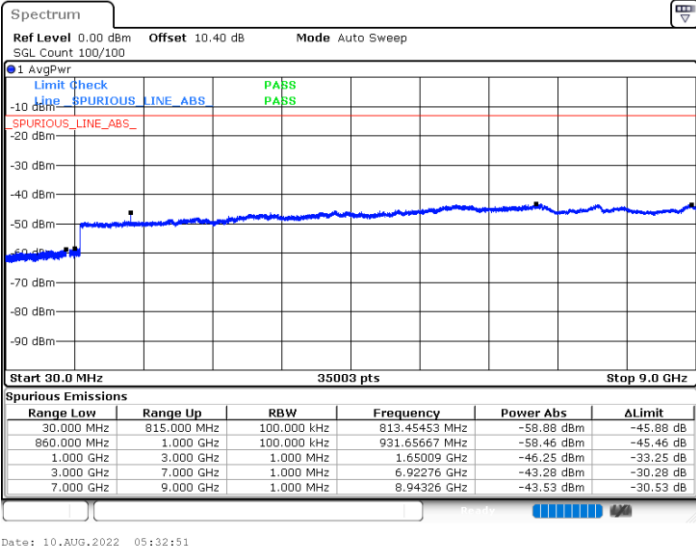




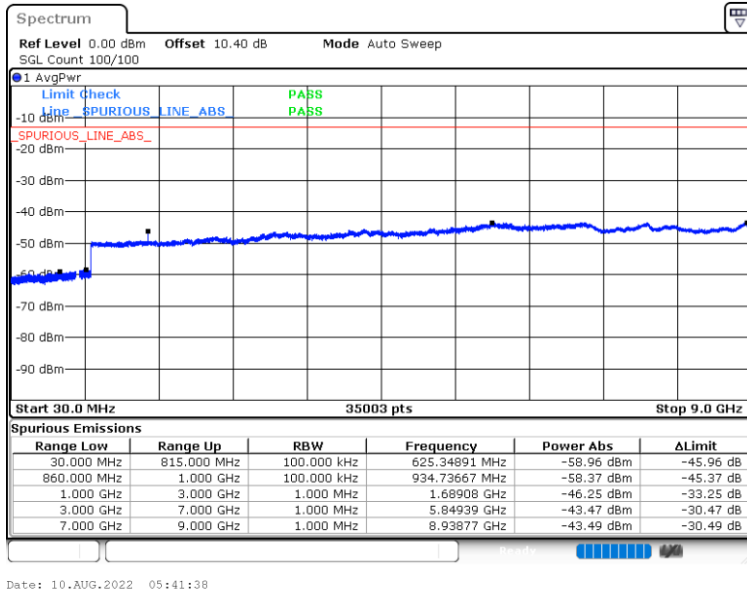
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK



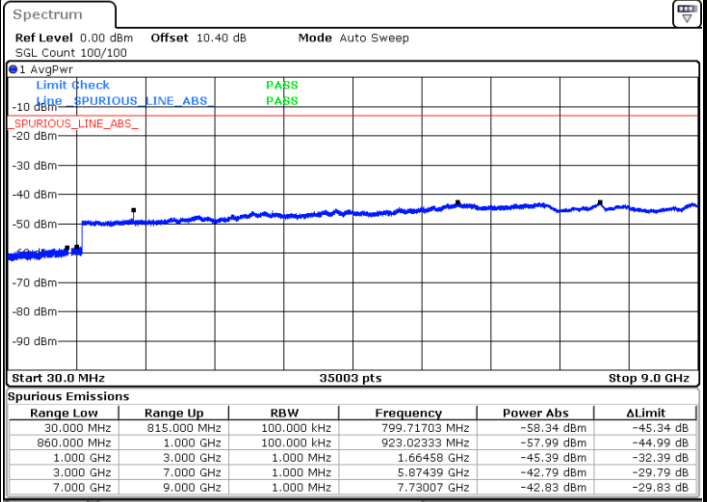
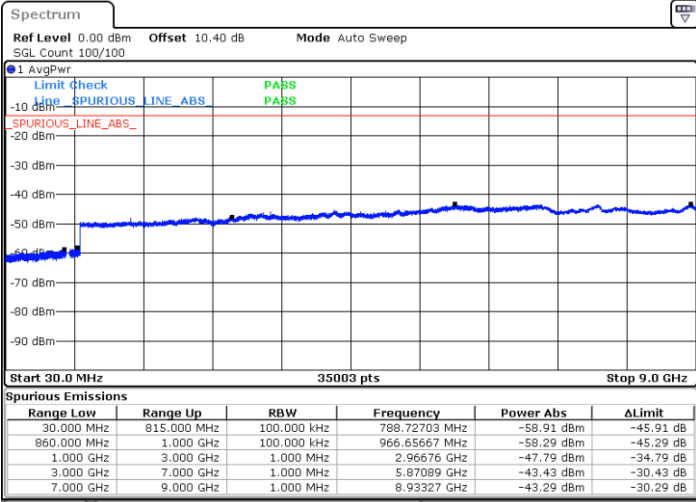




LTE Band 5 / 10MHz

Lowest Channel / QPSK

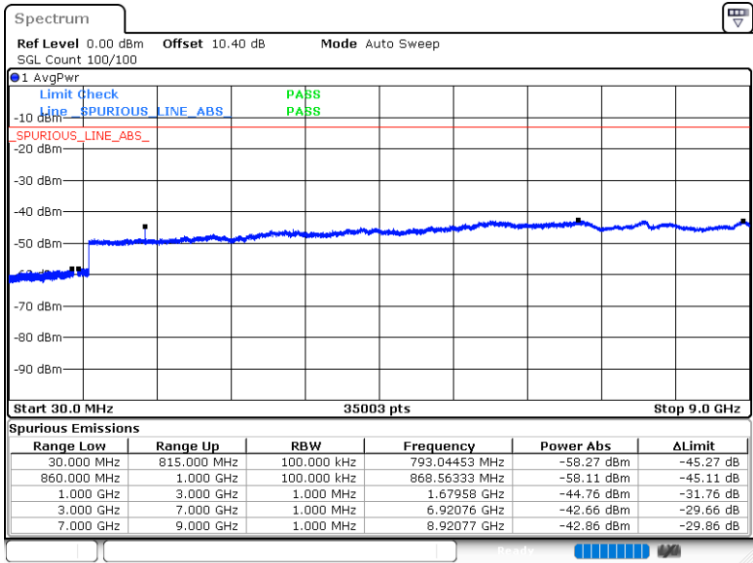
Middle Channel / QPSK



Date: 10.AUG.2022 05:52:10

Date: 19.AUG.2022 17:26:57

Highest Channel / QPSK



Date: 19.AUG.2022 17:32:11



### Frequency Stability

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0104                             | PASS    |
| 40               | Normal Voltage    | 0.0108                             |         |
| 30               | Normal Voltage    | 0.0110                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0129                             |         |
| 0                | Normal Voltage    | 0.0067                             |         |
| -10              | Normal Voltage    | 0.0073                             |         |
| -20              | Normal Voltage    | 0.0051                             |         |
| -30              | Normal Voltage    | 0.0136                             |         |
| 20               | Maximum Voltage   | 0.0115                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0079                             |         |

**Note:**

- 1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 5B

## 26dB Bandwidth

| Mode      | LTE Band 5B : 26dB BW(MHz) |             |            |
|-----------|----------------------------|-------------|------------|
| QPSK      |                            |             |            |
| BW        | 3MHz+5MHz                  | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 8.10                       | 8.14        | 14.60      |
| BW        | 10MHz+5MHz                 | 10MHz+10MHz | N/A        |
| Middle CH | 14.57                      | 19.66       | -          |

| Mode      | LTE Band 5B : 26dB BW(MHz) |             |            |
|-----------|----------------------------|-------------|------------|
| 16QAM     |                            |             |            |
| BW        | 3MHz+5MHz                  | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 8.17                       | 8.26        | 14.75      |
| BW        | 10MHz+5MHz                 | 10MHz+10MHz | N/A        |
| Middle CH | 14.81                      | 19.66       | -          |

| Mode      | LTE Band 5B : 26dB BW(MHz) |             |            |
|-----------|----------------------------|-------------|------------|
| 64QAM     |                            |             |            |
| BW        | 3MHz+5MHz                  | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 8.07                       | 8.18        | 14.54      |
| BW        | 10MHz+5MHz                 | 10MHz+10MHz | N/A        |
| Middle CH | 14.78                      | 19.70       | -          |

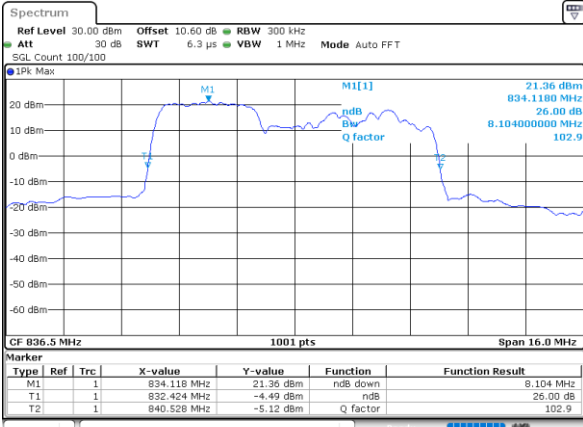
| Mode      | LTE Band 5B : 26dB BW(MHz) |             |            |
|-----------|----------------------------|-------------|------------|
| 256QAM    |                            |             |            |
| BW        | 3MHz+5MHz                  | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 8.09                       | 8.41        | 14.63      |
| BW        | 10MHz+5MHz                 | 10MHz+10MHz | N/A        |
| Middle CH | 14.84                      | 19.74       | -          |



LTE Band 5B

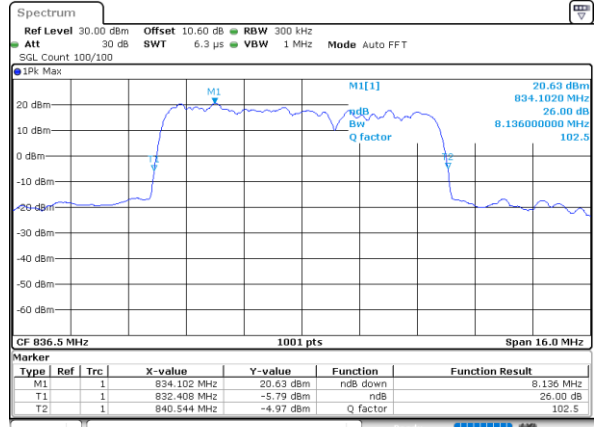
QPSK

Middle Channel / 3MHz+5MHz



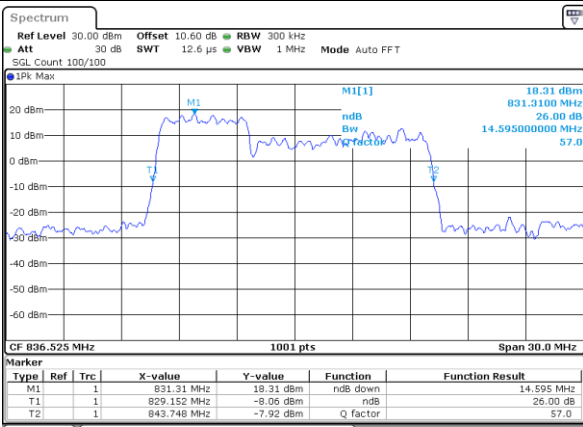
Date: 24.AUG.2022 19:46:03

Middle Channel / 5MHz+3MHz



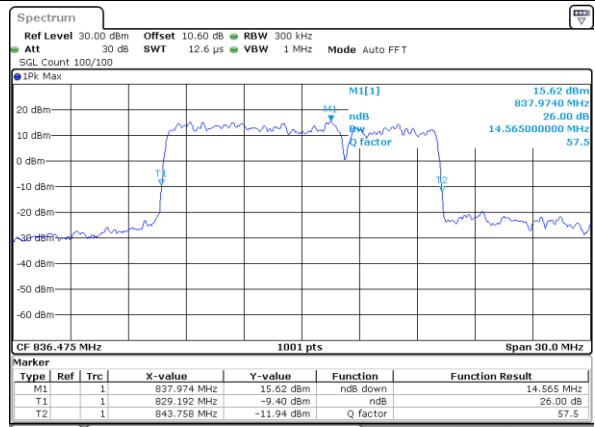
Date: 24.AUG.2022 20:21:01

Middle Channel / 5MHz+10MHz



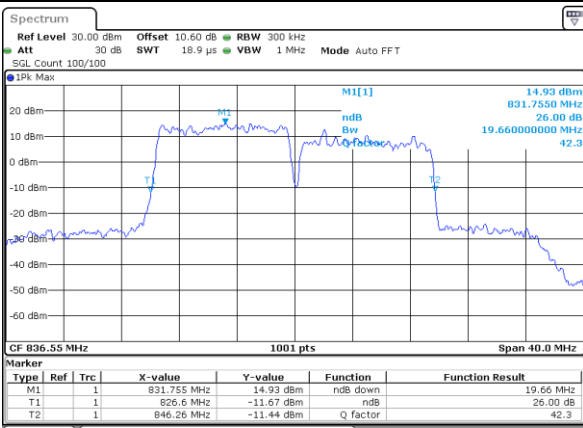
Date: 24.AUG.2022 20:55:59

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 21:30:56

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:03:32

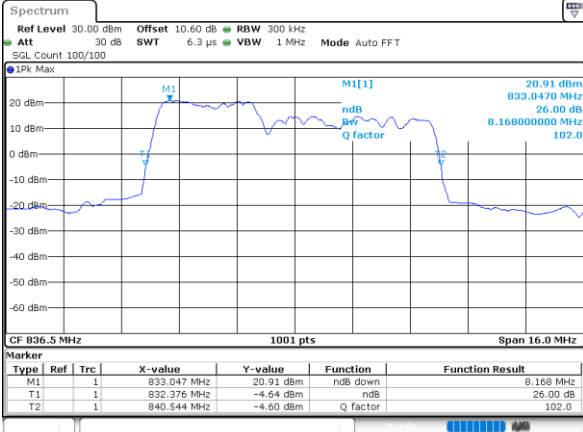
N/A



LTE Band 5B

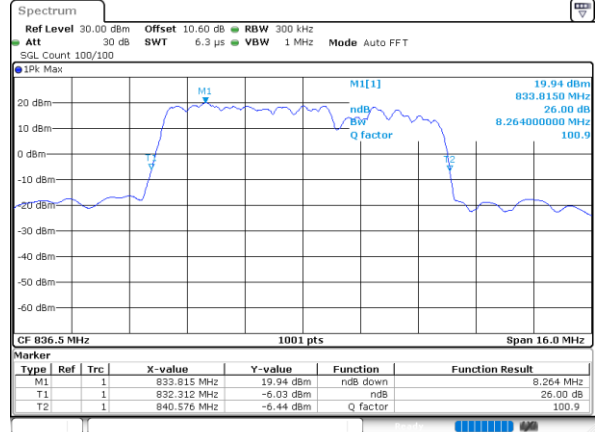
16QAM

Middle Channel / 3MHz+5MHz



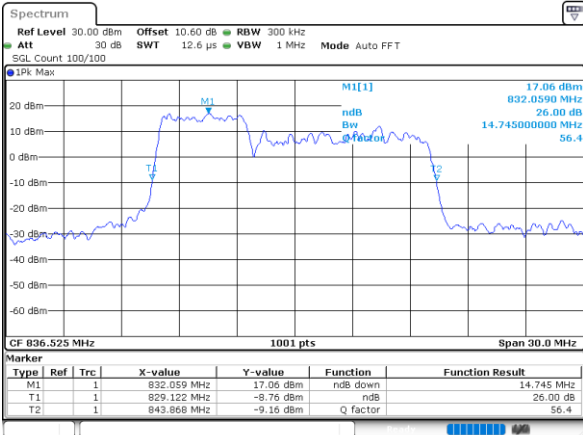
Date: 24\_AUG.2022 19:45:25

Middle Channel / 5MHz+3MHz



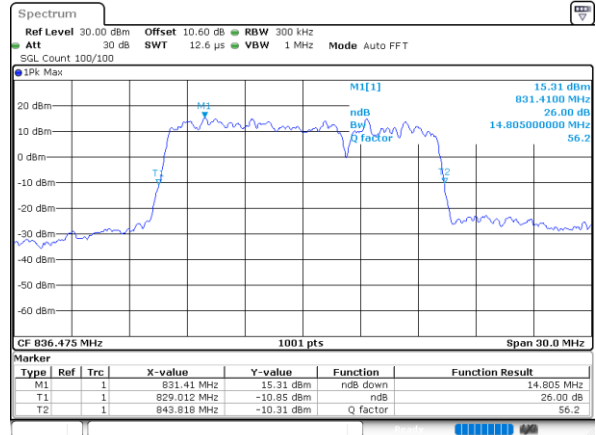
Date: 24\_AUG.2022 20:20:23

Middle Channel / 5MHz+10MHz



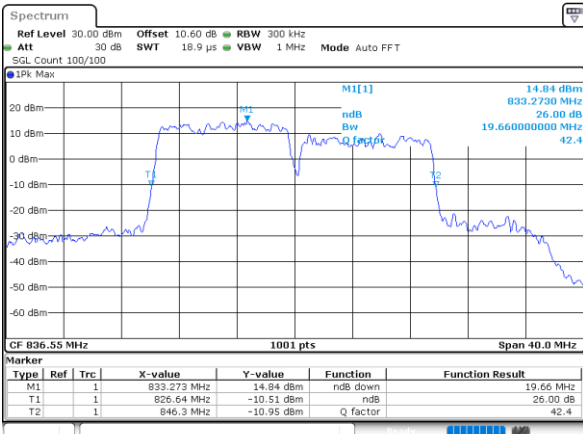
Date: 24\_AUG.2022 20:55:20

Middle Channel / 10MHz+5MHz



Date: 24\_AUG.2022 21:30:17

Middle Channel / 10MHz+10MHz



Date: 26\_AUG.2022 09:18:00

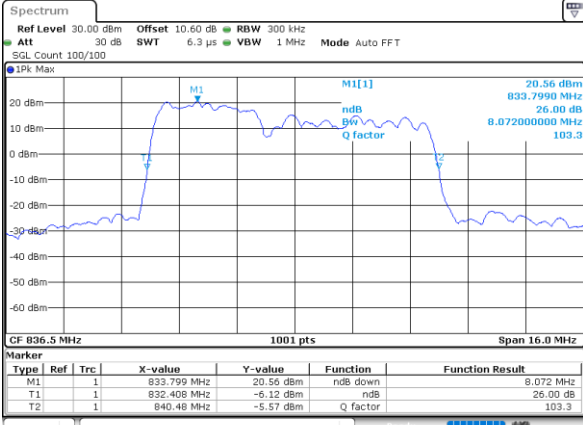
N/A



LTE Band 5B

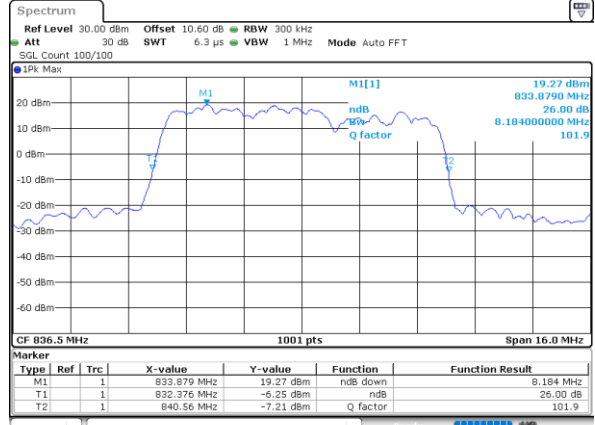
64QAM

Middle Channel / 3MHz+5MHz



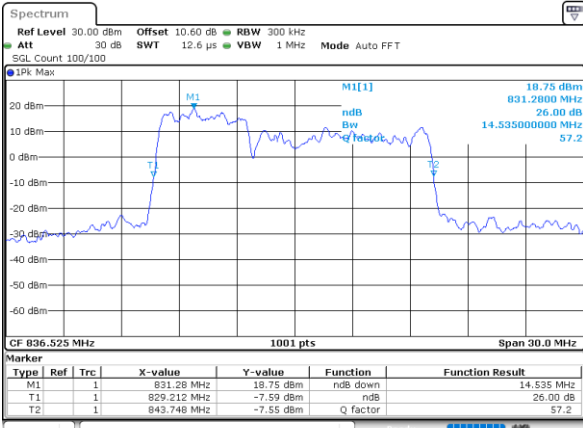
Date: 24.AUG.2022 19:44:46

Middle Channel / 5MHz+3MHz



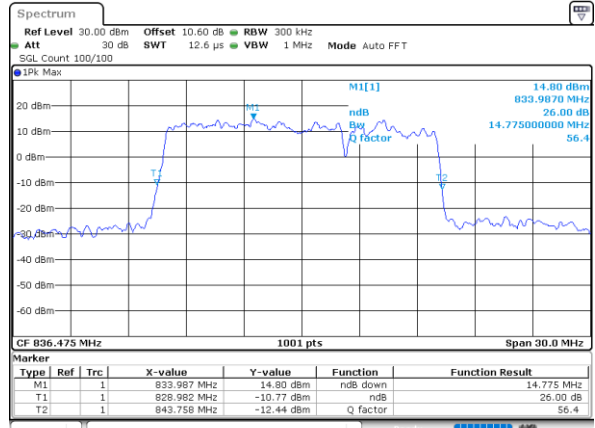
Date: 24.AUG.2022 20:19:44

Middle Channel / 5MHz+10MHz



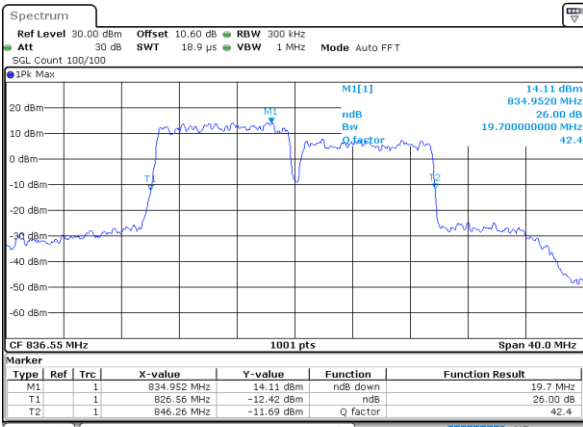
Date: 24.AUG.2022 20:54:42

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 21:29:39

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:02:25

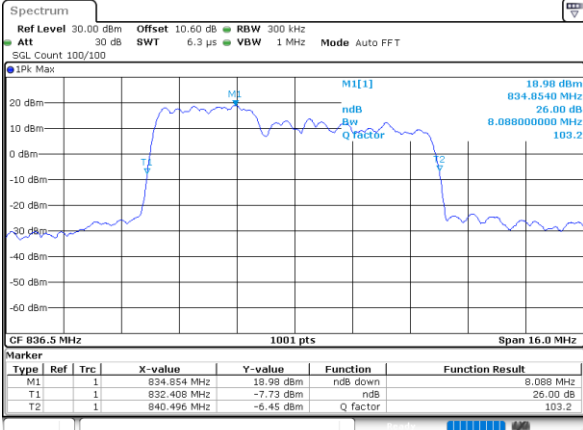
N/A



LTE Band 5B

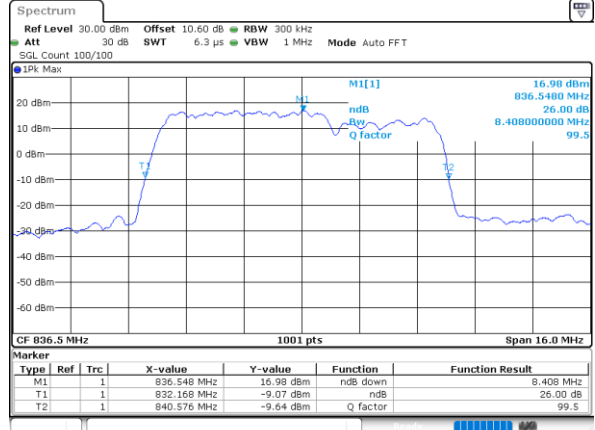
256QAM

Middle Channel / 3MHz+5MHz



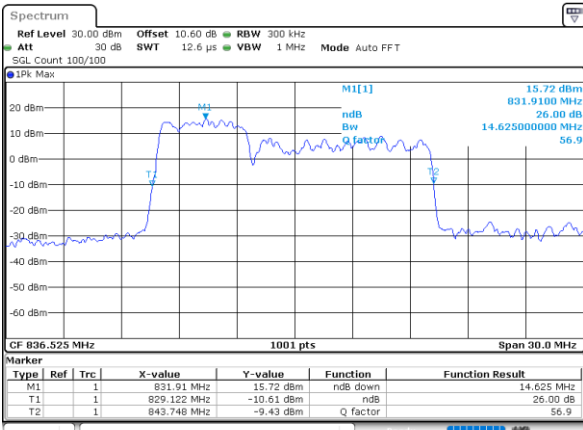
Date: 24.AUG.2022 22:15:16

Middle Channel / 5MHz+3MHz



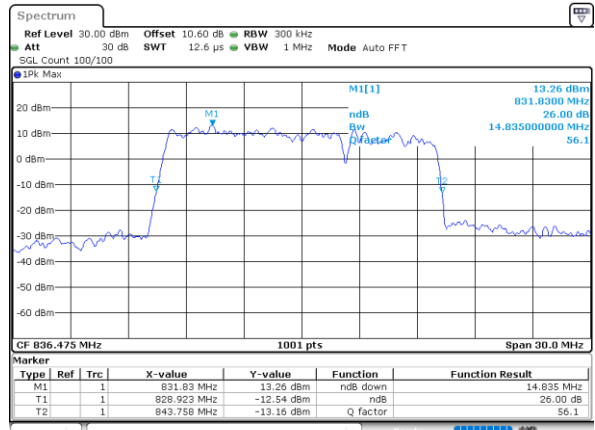
Date: 24.AUG.2022 22:24:14

Middle Channel / 5MHz+10MHz



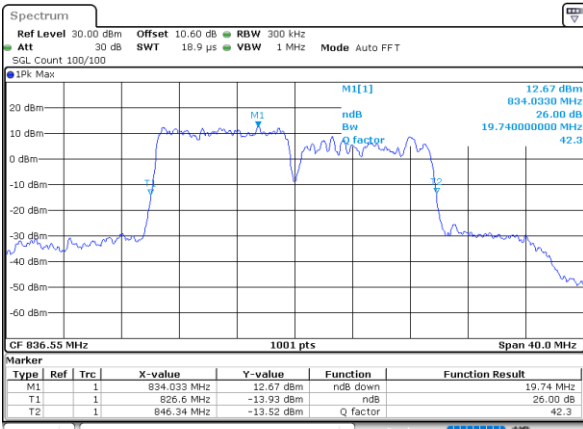
Date: 24.AUG.2022 22:33:11

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 22:42:10

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:50:26

N/A



**Occupied Bandwidth**

| Mode      | LTE Band 5B : 99%OBW(MHz) |             |            |
|-----------|---------------------------|-------------|------------|
| QPSK      |                           |             |            |
| BW        | 3MHz+5MHz                 | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 7.58                      | 7.51        | 13.85      |
| BW        | 10MHz+5MHz                | 10MHz+10MHz | N/A        |
| Middle CH | 13.94                     | 18.78       | -          |

| Mode      | LTE Band 5B : 99%OBW(MHz) |             |            |
|-----------|---------------------------|-------------|------------|
| 16QAM     |                           |             |            |
| BW        | 3MHz+5MHz                 | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 7.46                      | 7.58        | 13.85      |
| BW        | 10MHz+5MHz                | 10MHz+10MHz | N/A        |
| Middle CH | 13.82                     | 18.58       | -          |

| Mode      | LTE Band 5B : 99%OBW(MHz) |             |            |
|-----------|---------------------------|-------------|------------|
| 64QAM     |                           |             |            |
| BW        | 3MHz+5MHz                 | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 7.56                      | 7.59        | 13.79      |
| BW        | 10MHz+5MHz                | 10MHz+10MHz | N/A        |
| Middle CH | 13.91                     | 18.66       | -          |

| Mode      | LTE Band 5B : 99%OBW(MHz) |             |            |
|-----------|---------------------------|-------------|------------|
| 254QAM    |                           |             |            |
| BW        | 3MHz+5MHz                 | 5MHz+3MHz   | 5MHz+10MHz |
| Middle CH | 7.50                      | 7.58        | 13.88      |
| BW        | 10MHz+5MHz                | 10MHz+10MHz | N/A        |
| Middle CH | 13.79                     | 18.78       | -          |

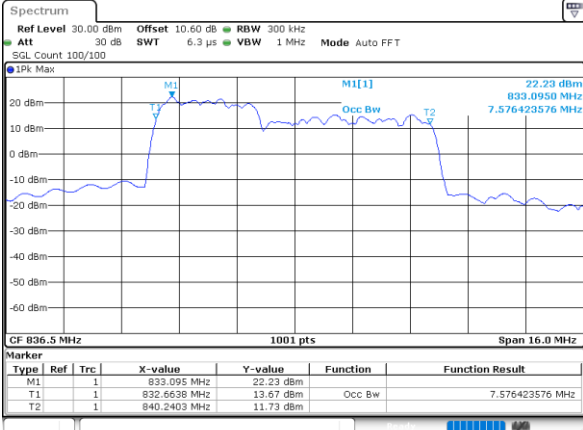




LTE Band 5B

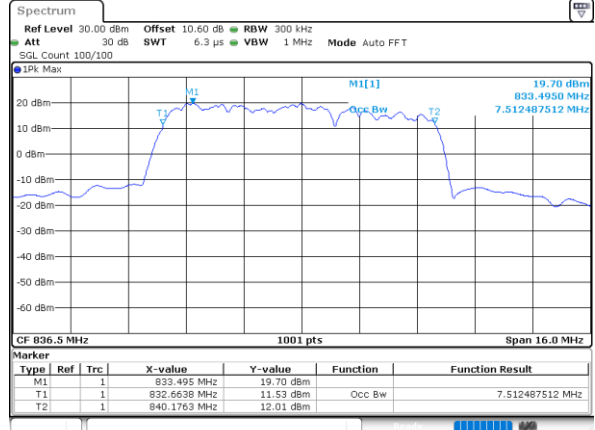
QPSK

Middle Channel / 3MHz+5MHz



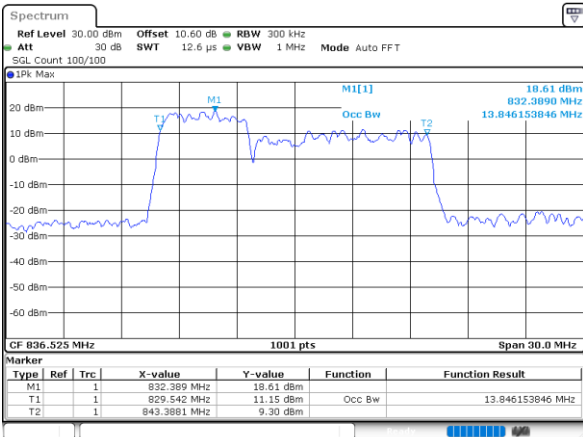
Date: 24.AUG.2022 19:42:52

Middle Channel / 5MHz+3MHz



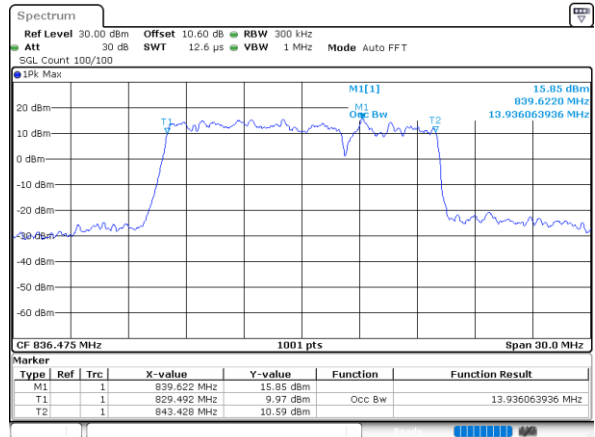
Date: 24.AUG.2022 20:17:49

Middle Channel / 5MHz+10MHz



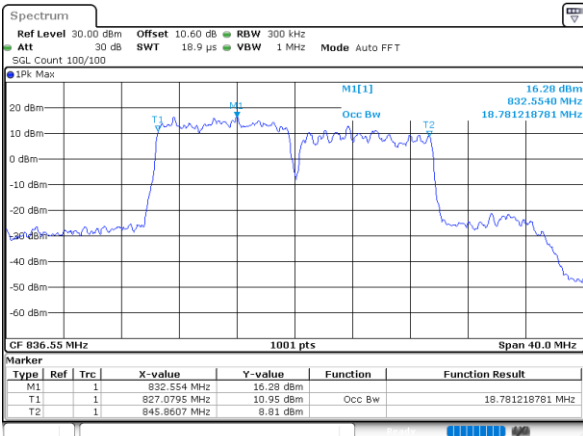
Date: 24.AUG.2022 20:52:47

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 21:27:44

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:00:46

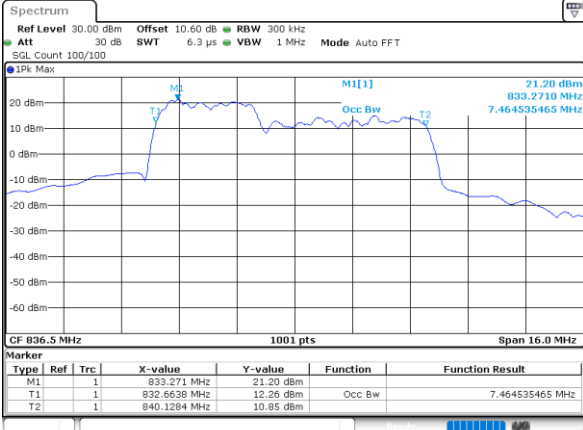
N/A



LTE Band 5B

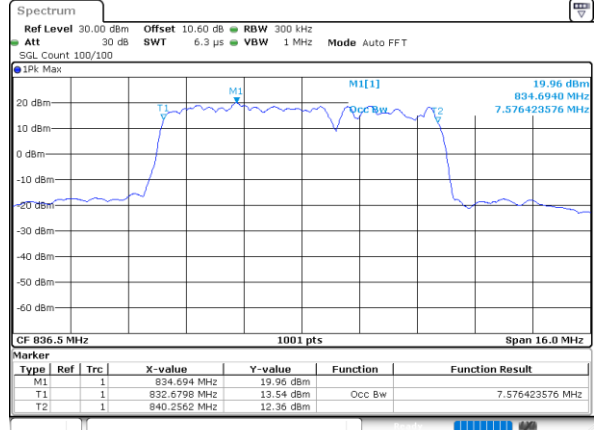
16QAM

Middle Channel / 3MHz+5MHz



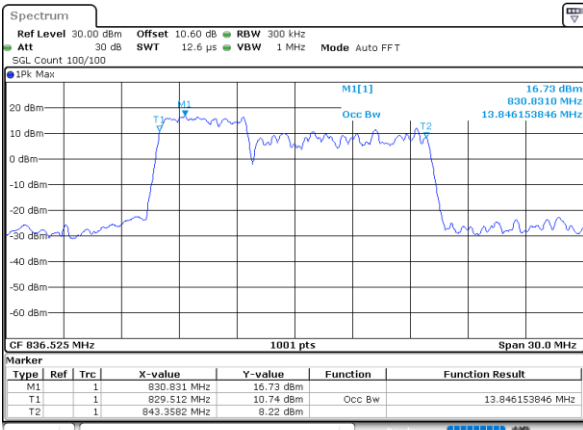
Date: 24.AUG.2022 19:43:30

Middle Channel / 5MHz+3MHz



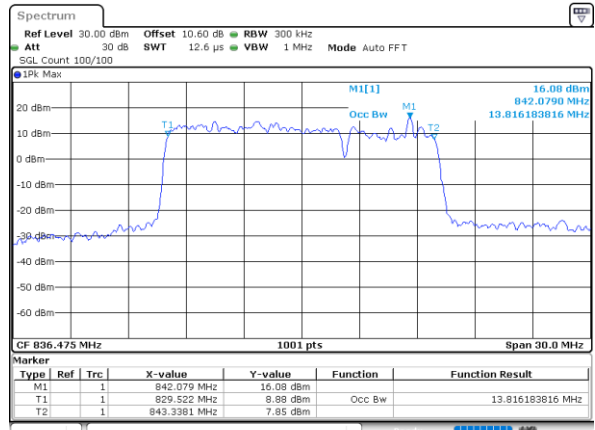
Date: 24.AUG.2022 20:18:28

Middle Channel / 5MHz+10MHz



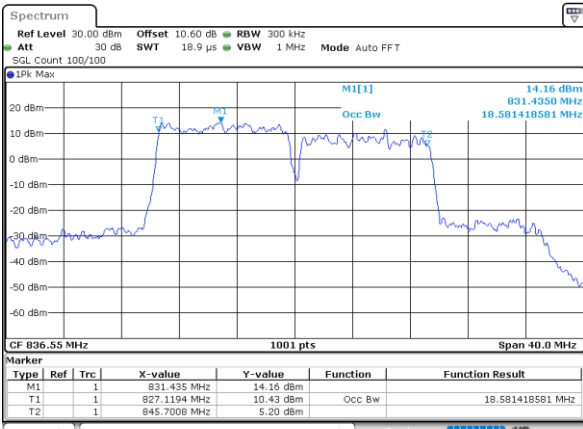
Date: 24.AUG.2022 20:53:25

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 21:28:23

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:01:19

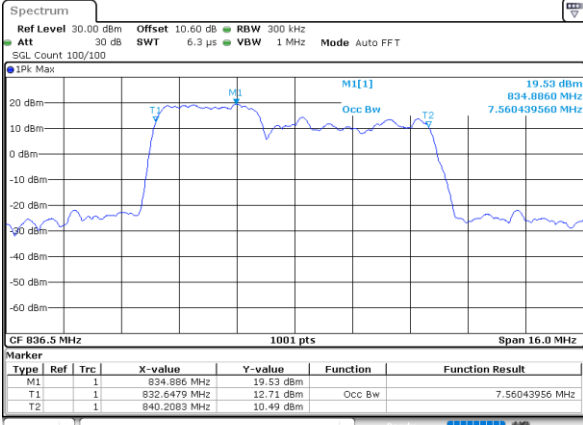
N/A



LTE Band 5B

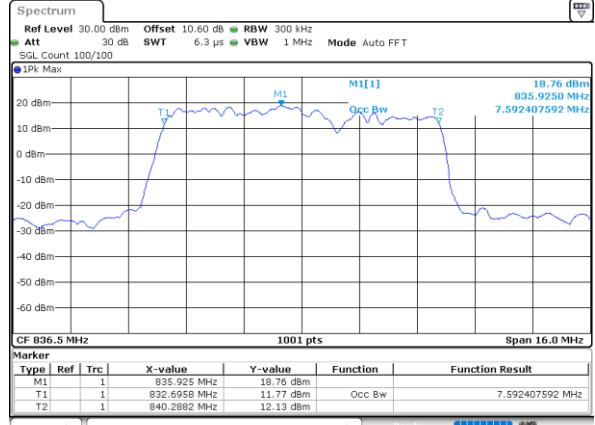
64QAM

Middle Channel / 3MHz+5MHz



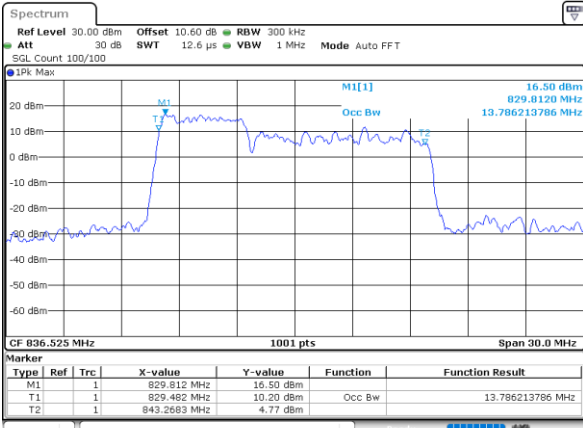
Date: 24.AUG.2022 19:44:08

Middle Channel / 5MHz+3MHz



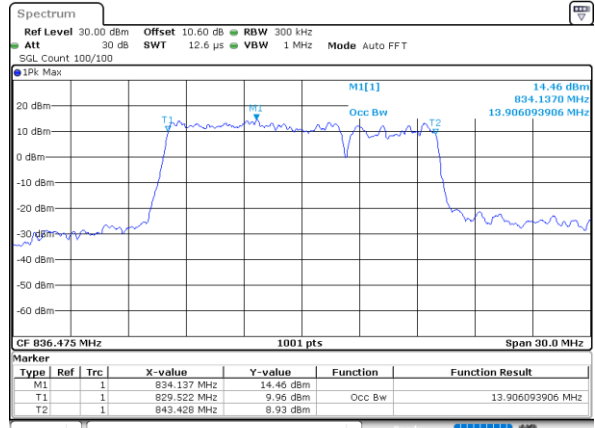
Date: 24.AUG.2022 20:19:06

Middle Channel / 5MHz+10MHz



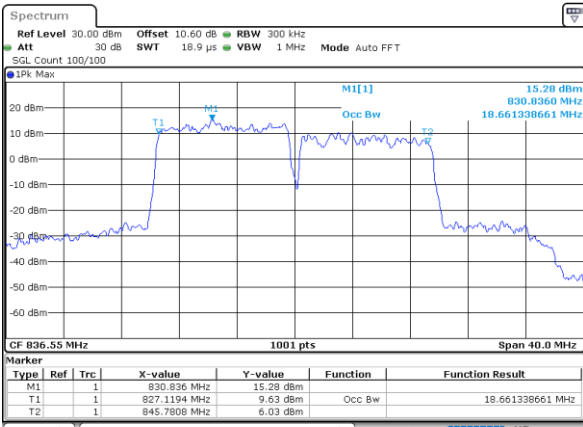
Date: 24.AUG.2022 20:54:04

Middle Channel / 10MHz+5MHz



Date: 24.AUG.2022 21:29:01

Middle Channel / 10MHz+10MHz



Date: 24.AUG.2022 22:01:53

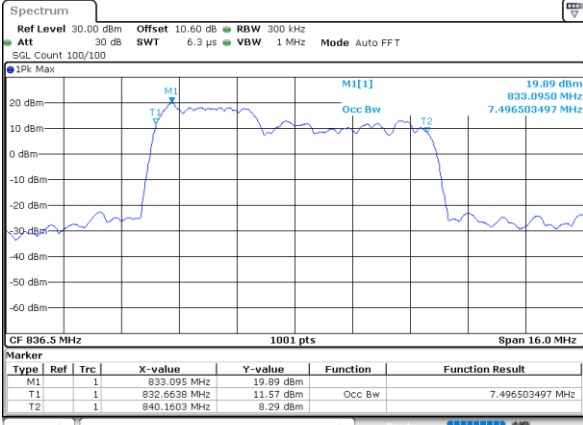
N/A



LTE Band 5B

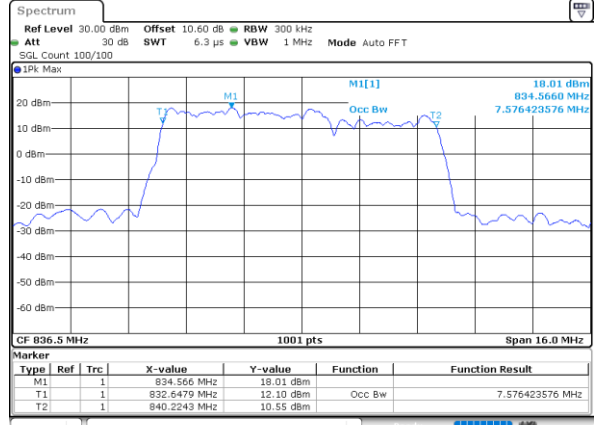
256QAM

Middle Channel / 3MHz+5MHz



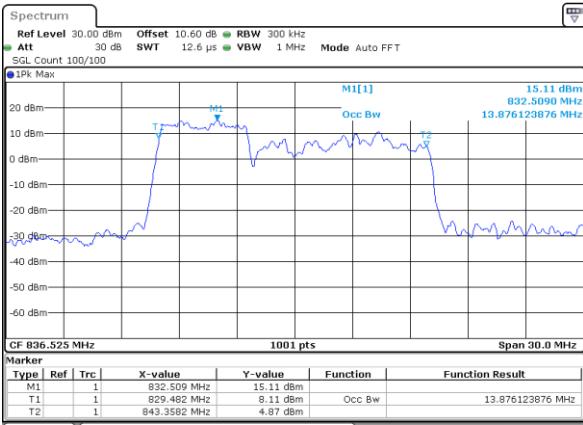
Date: 24\_AUG.2022 22:14:38

Middle Channel / 5MHz+3MHz



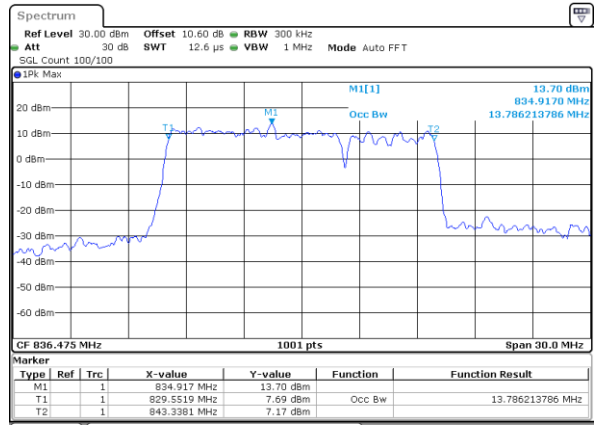
Date: 24\_AUG.2022 22:23:36

Middle Channel / 5MHz+10MHz



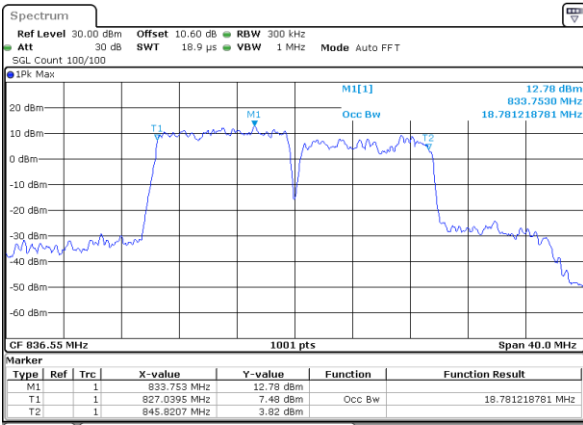
Date: 24\_AUG.2022 22:32:33

Middle Channel / 10MHz+5MHz



Date: 24\_AUG.2022 22:41:33

Middle Channel / 10MHz+10MHz



Date: 24\_AUG.2022 22:49:53

N/A



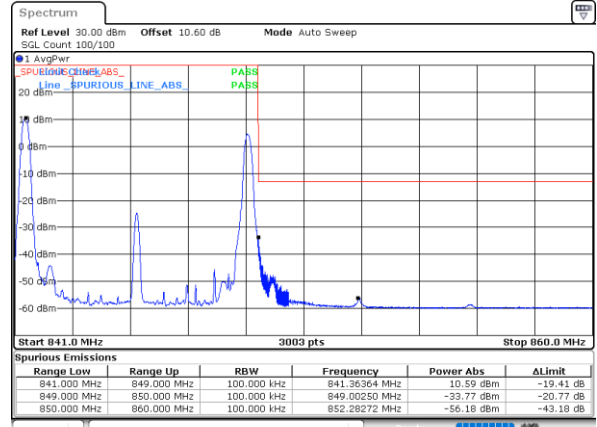
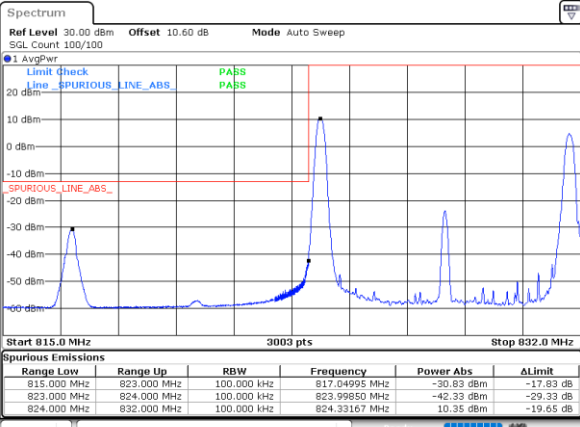
# Conducted Band Edge

## LTE Band 5B / 3MHz+5MHz

### QPSK

#### Lowest Band Edge / 1RB0 and 1RB24

#### Highest Band Edge / 1RB0 and 1RB24

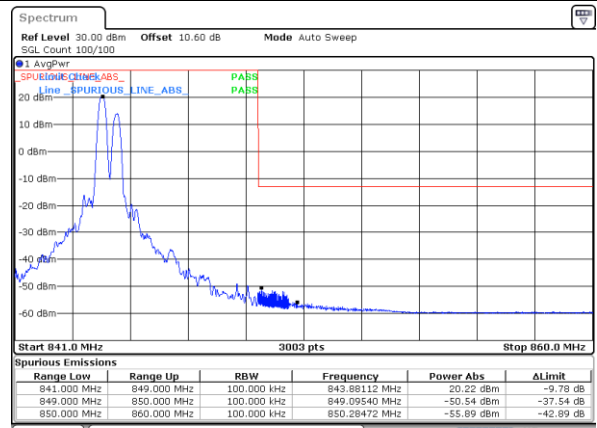
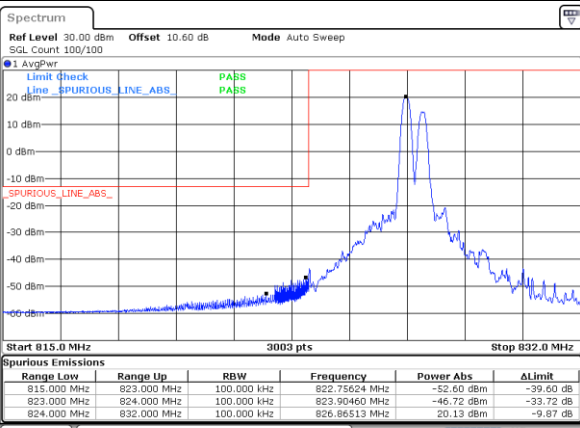


Date: 24.AUG.2022 19:35:27

Date: 24.AUG.2022 19:18:59

#### Lowest Band Edge / 1RB14 and 1RB0

#### Highest Band Edge / 1RB14 and 1RB0

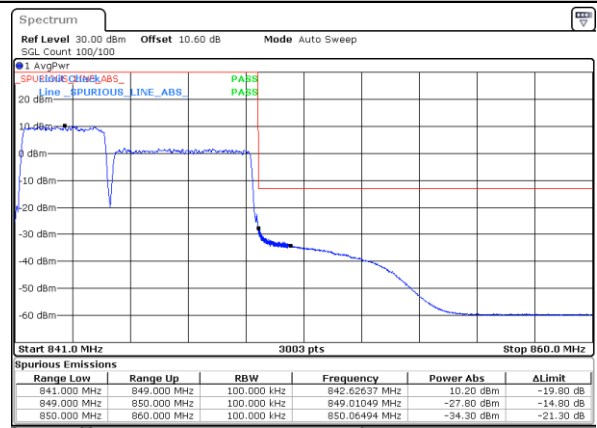
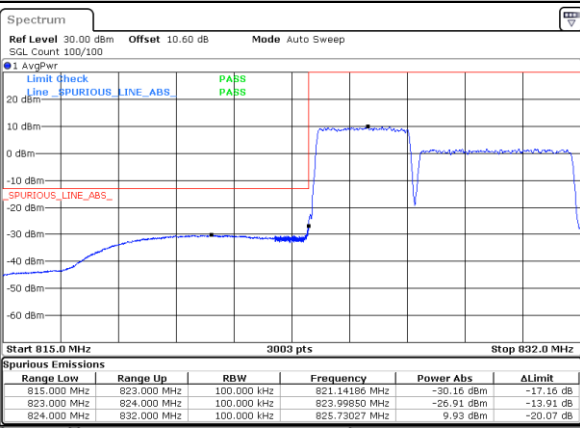


Date: 24.AUG.2022 19:36:41

Date: 24.AUG.2022 19:25:04

#### Lowest Band Edge / Full RB

#### Highest Band Edge / Full RB



Date: 24.AUG.2022 19:29:22

Date: 24.AUG.2022 19:17:46

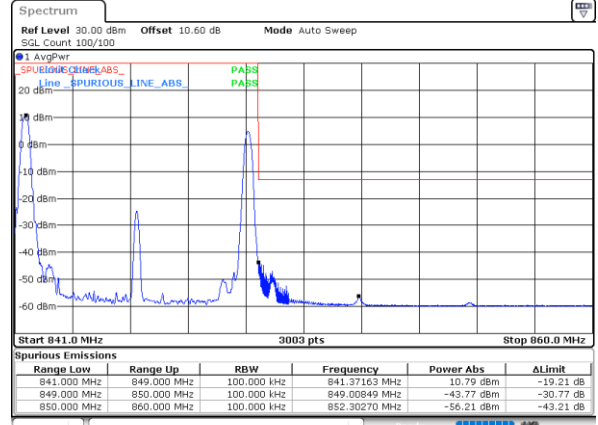
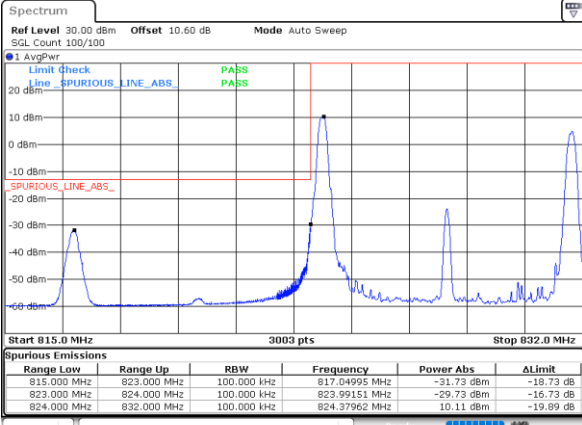


LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB14

Highest Band Edge / 1RB0 and 1RB14

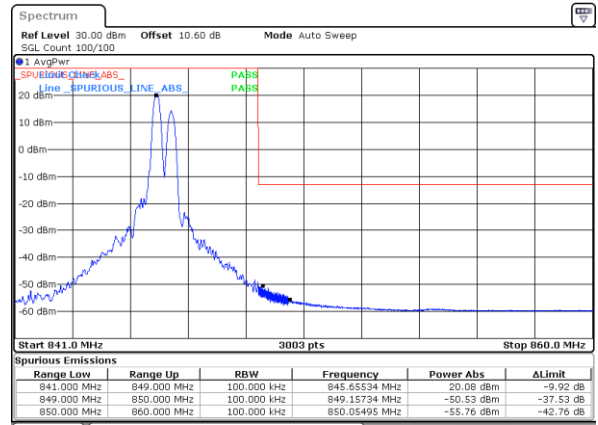
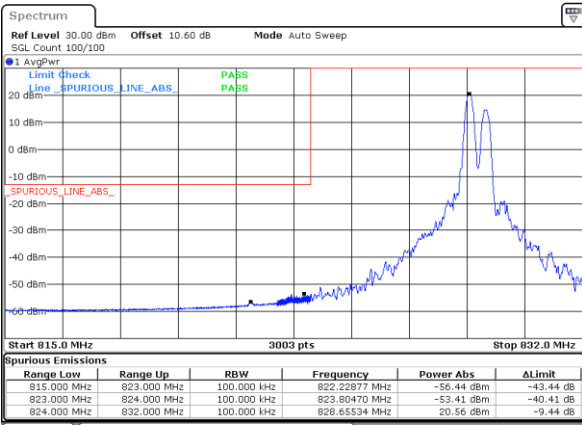


Date: 24.AUG.2022 20:10:26

Date: 24.AUG.2022 19:53:59

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

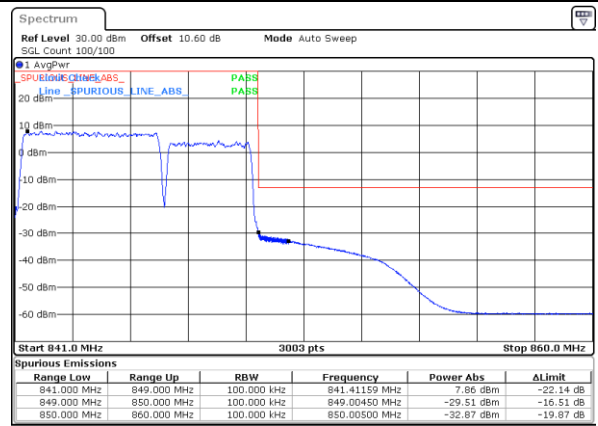
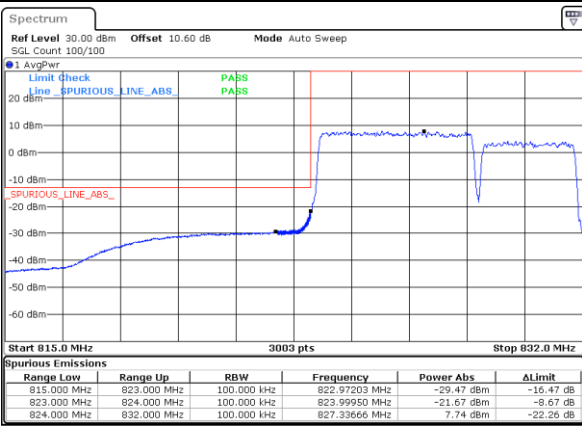


Date: 24.AUG.2022 20:11:39

Date: 24.AUG.2022 20:00:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 20:04:21

Date: 24.AUG.2022 19:52:46

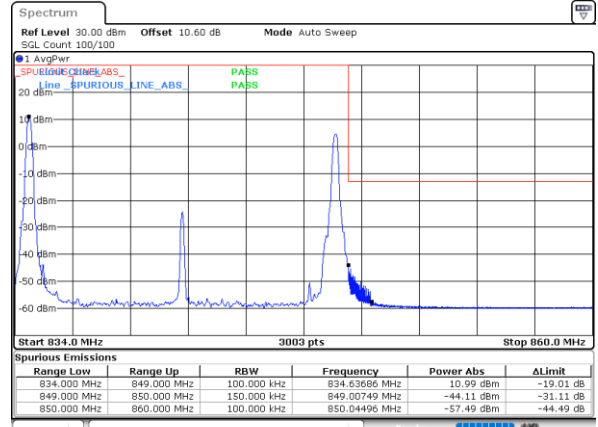
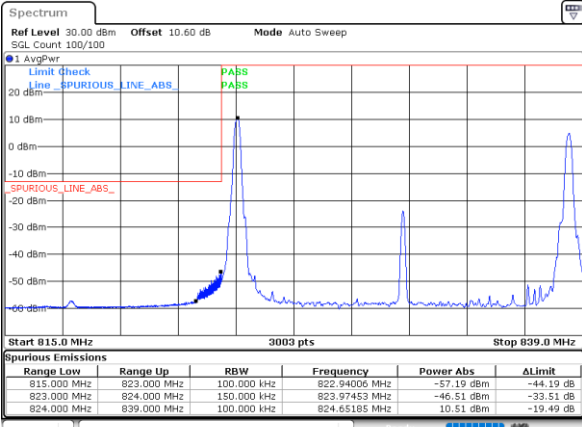


LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

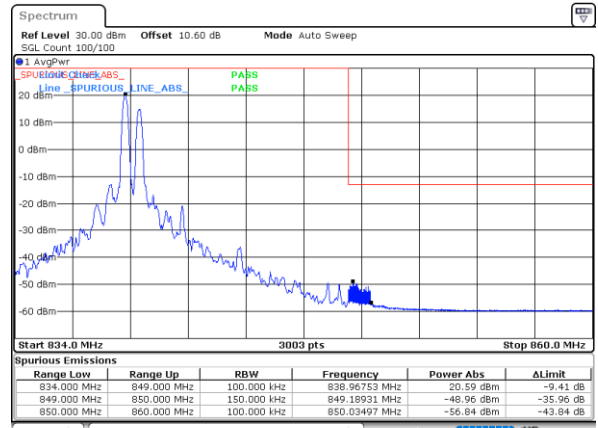
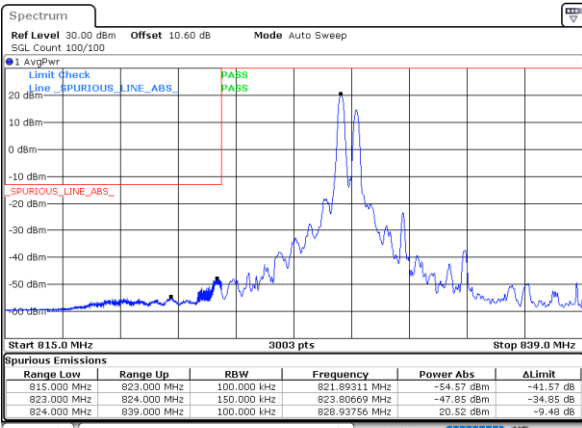


Date: 24.AUG.2022 20:45:23

Date: 24.AUG.2022 20:28:56

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

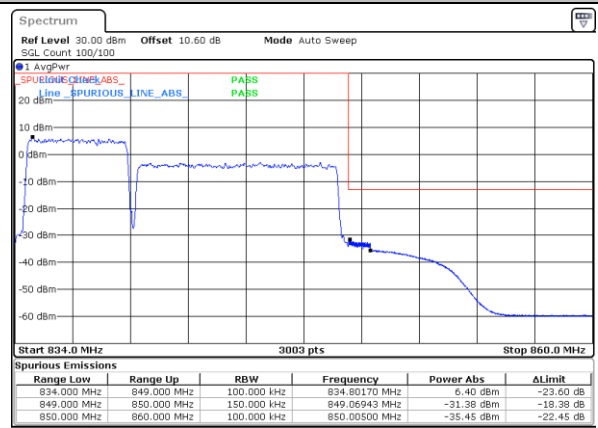
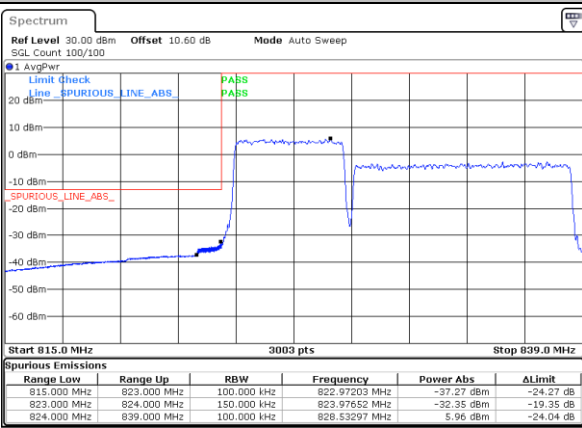


Date: 24.AUG.2022 20:46:36

Date: 24.AUG.2022 20:35:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 20:39:16

Date: 24.AUG.2022 20:27:43

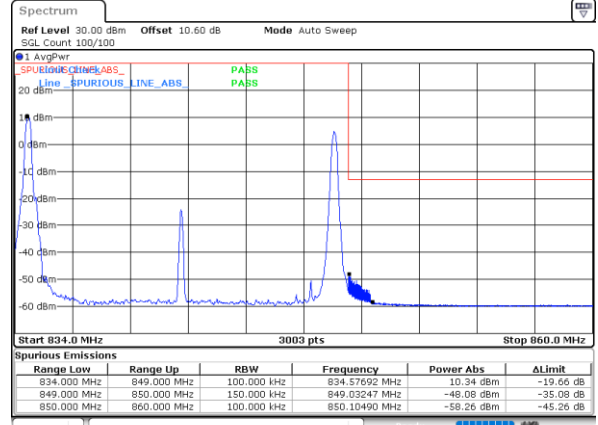
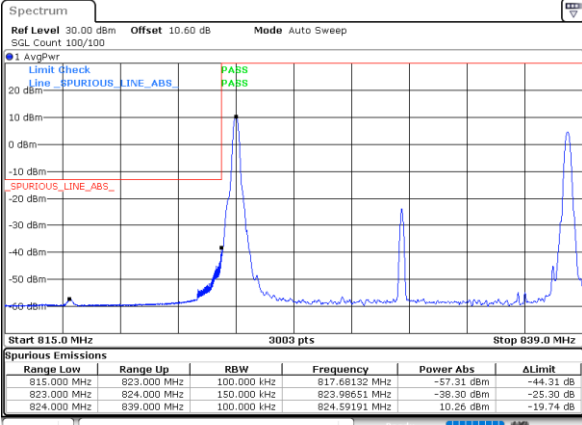


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

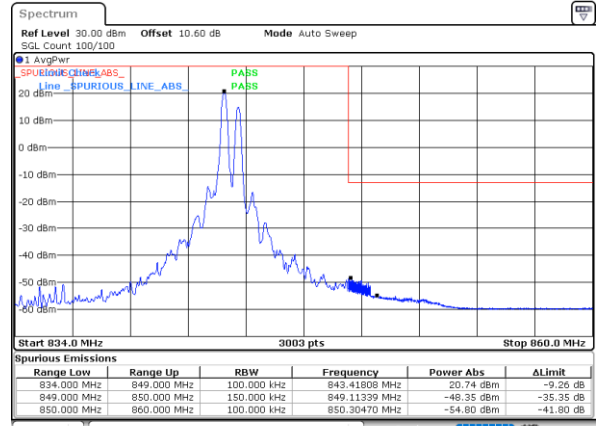
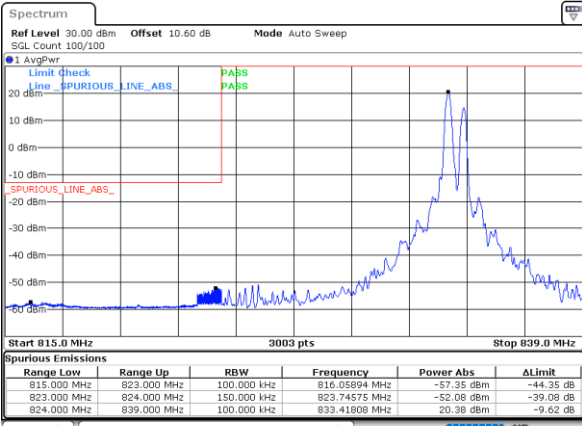


Date: 24.AUG.2022 21:20:21

Date: 24.AUG.2022 21:03:54

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

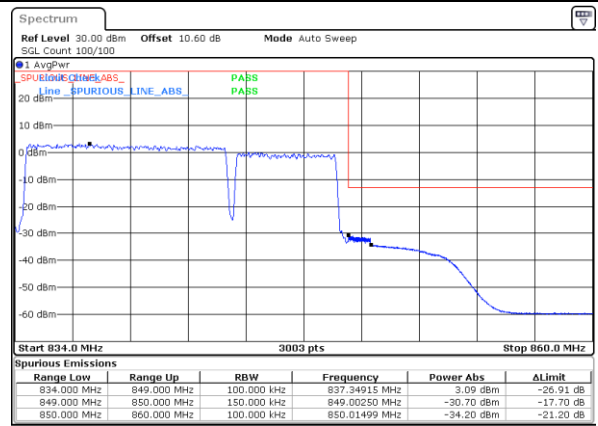
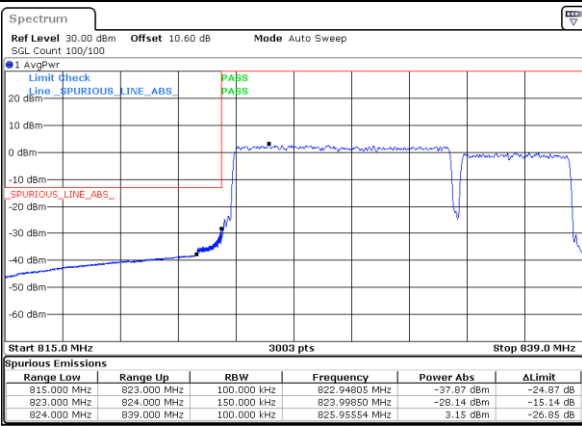


Date: 24.AUG.2022 21:21:34

Date: 24.AUG.2022 21:03:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 21:14:16

Date: 24.AUG.2022 21:02:41



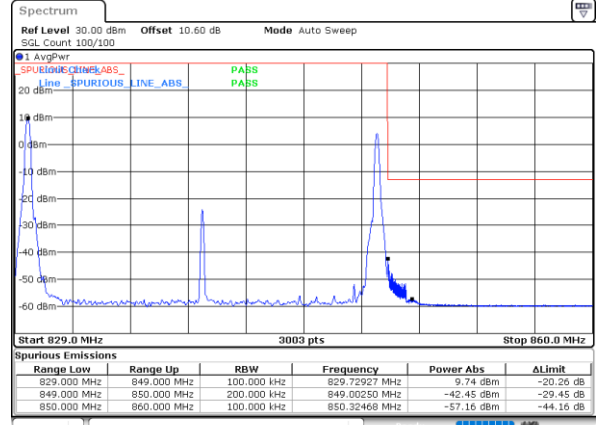
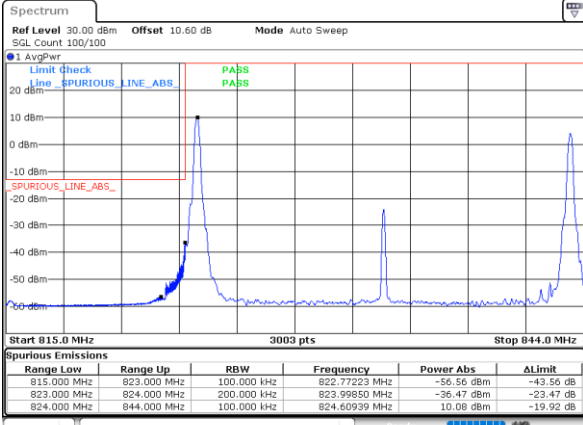


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

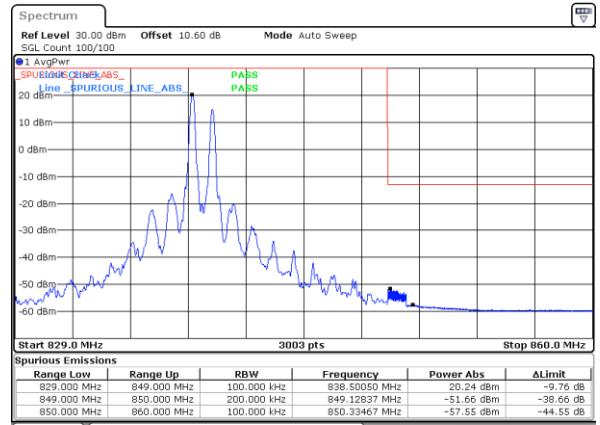
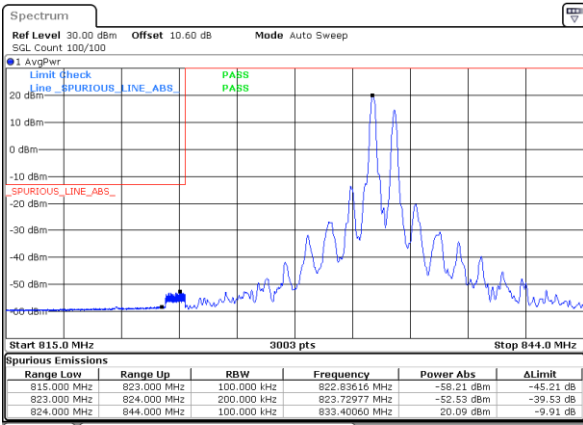


Date: 24.AUG.2022 21:53:52

Date: 24.AUG.2022 21:58:29

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

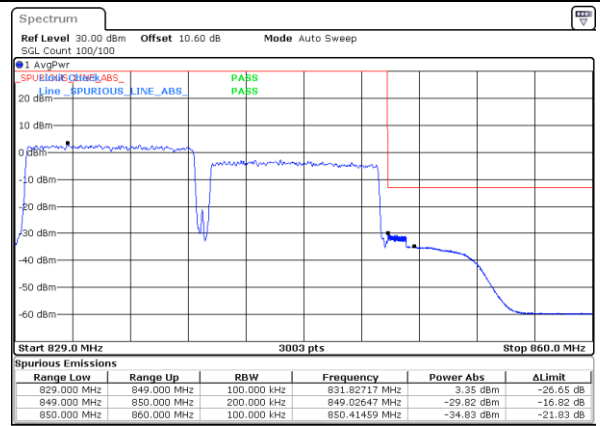
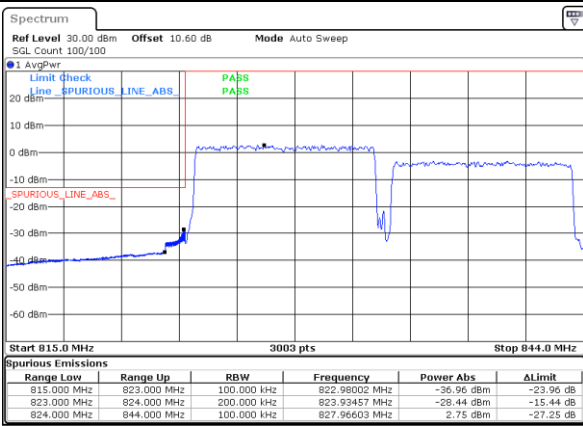


Date: 24.AUG.2022 21:55:00

Date: 24.AUG.2022 21:44:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 21:48:11

Date: 24.AUG.2022 21:57:22

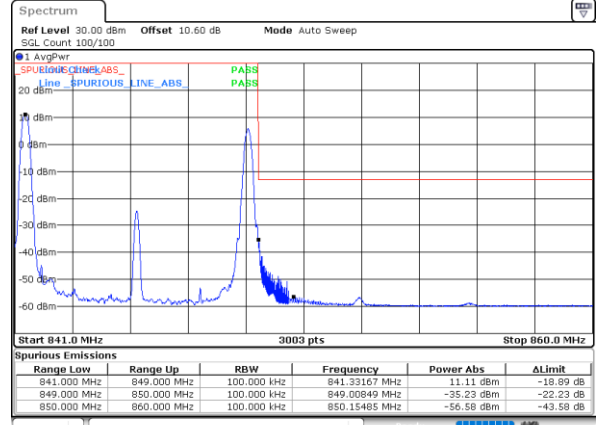
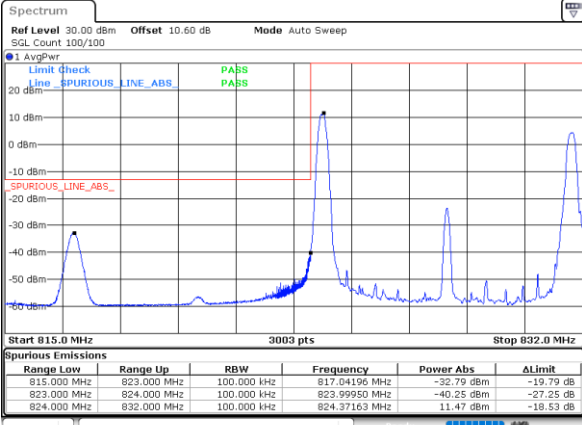


LTE Band 5B / 3MHz+5MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

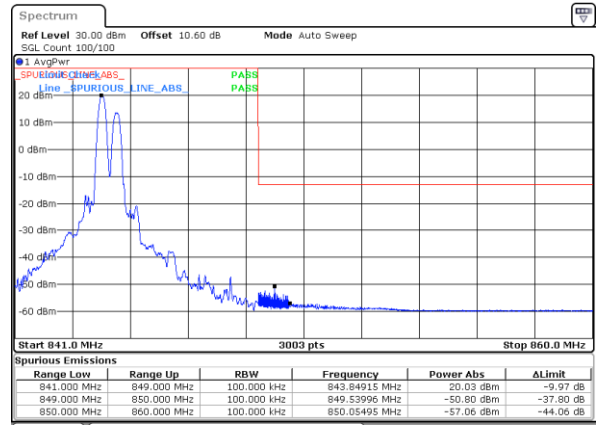
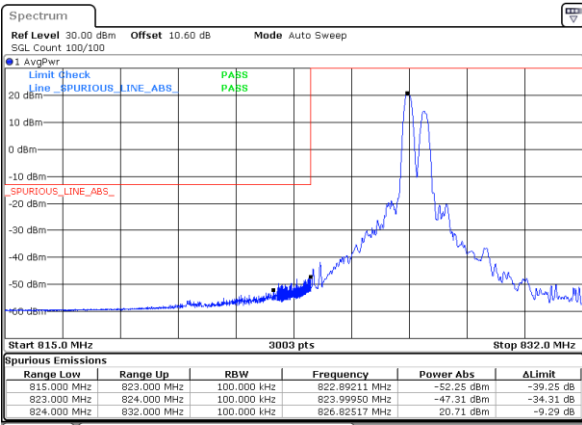


Date: 24.AUG.2022 19:34:14

Date: 24.AUG.2022 19:29:12

Lowest Band Edge / 1RB14 and 1RB0

Highest Band Edge / 1RB14 and 1RB0

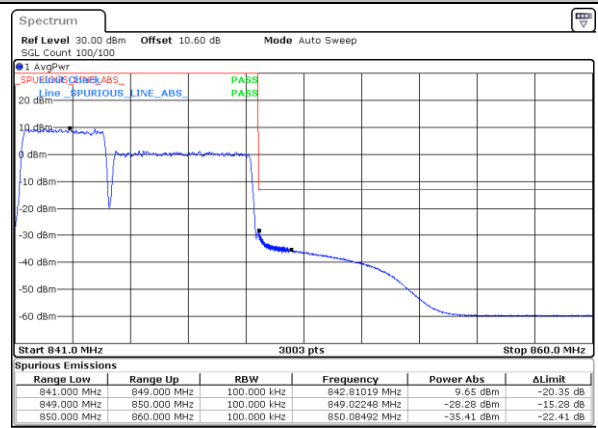
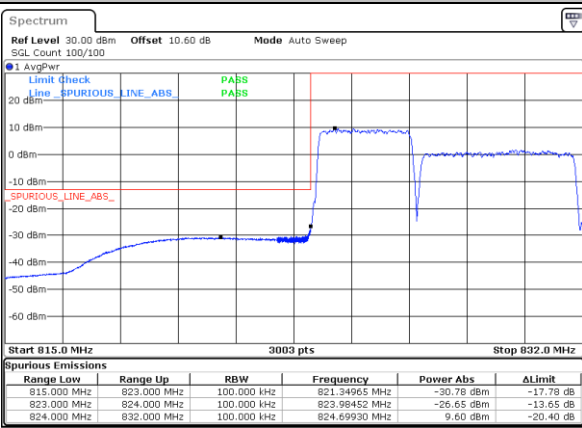


Date: 24.AUG.2022 19:37:54

Date: 24.AUG.2022 19:23:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 19:30:35

Date: 24.AUG.2022 19:16:33

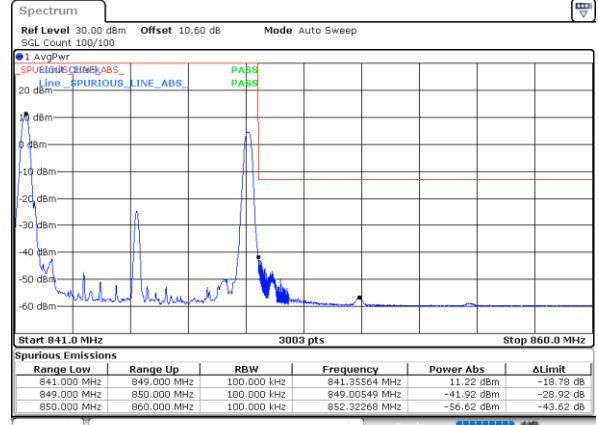
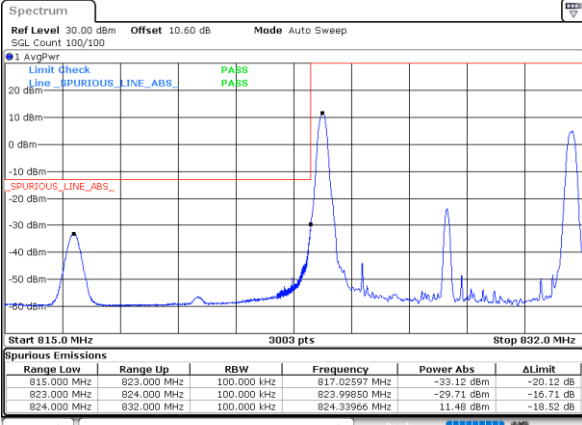


LTE Band 5B / 5MHz+3MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB14

Highest Band Edge / 1RB0 and 1RB14

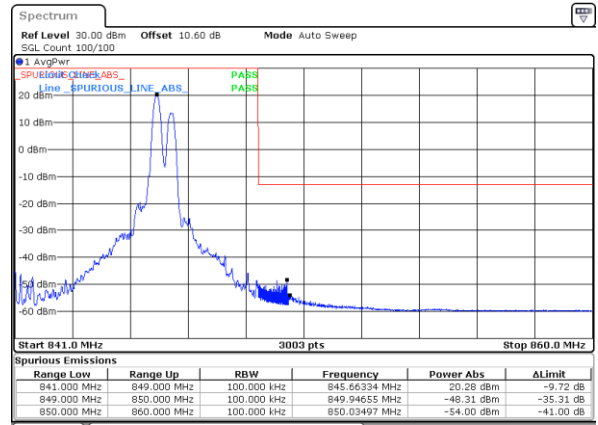
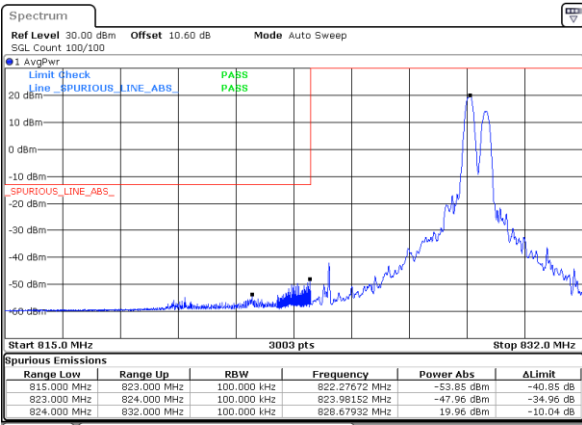


Date: 24.AUG.2022 20:09:13

Date: 24.AUG.2022 19:55:11

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

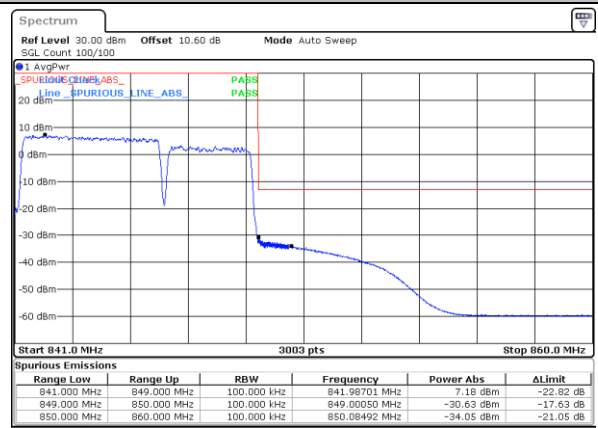
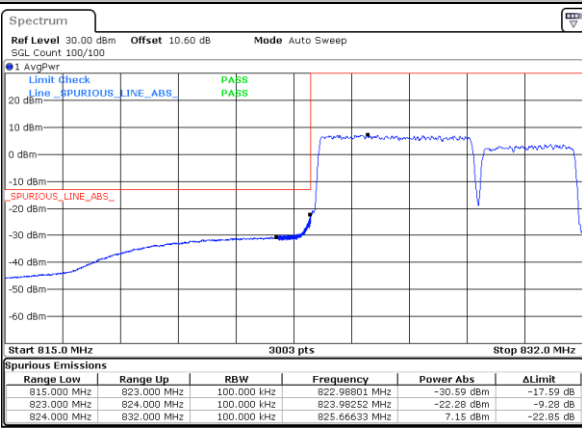


Date: 24.AUG.2022 20:12:52

Date: 24.AUG.2022 19:58:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 20:05:34

Date: 24.AUG.2022 19:51:33

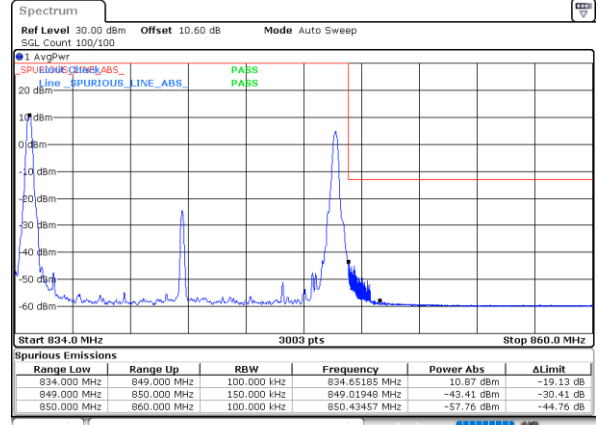
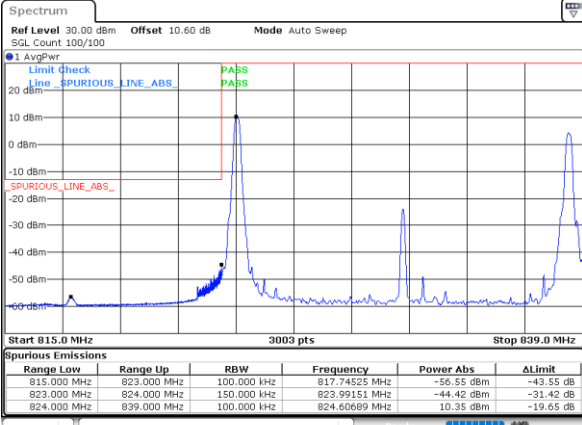


LTE Band 5B / 5MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

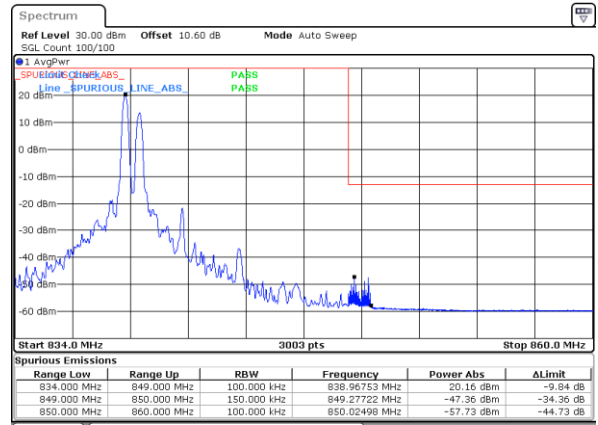
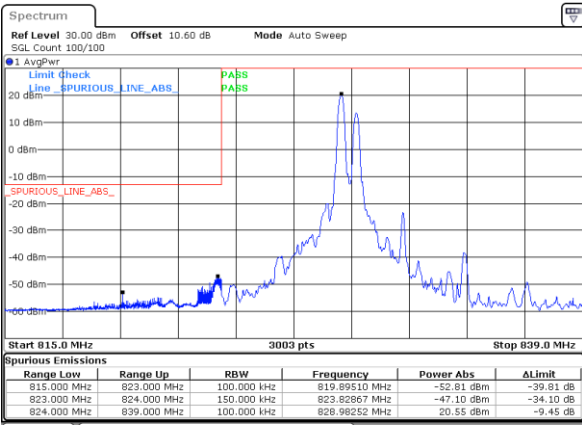


Date: 24.AUG.2022 20:44:10

Date: 24.AUG.2022 20:30:09

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

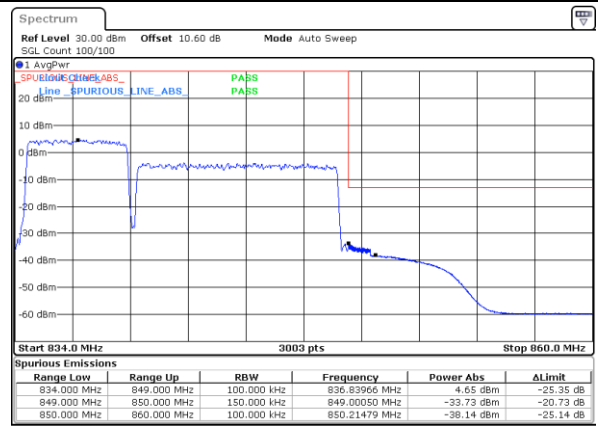
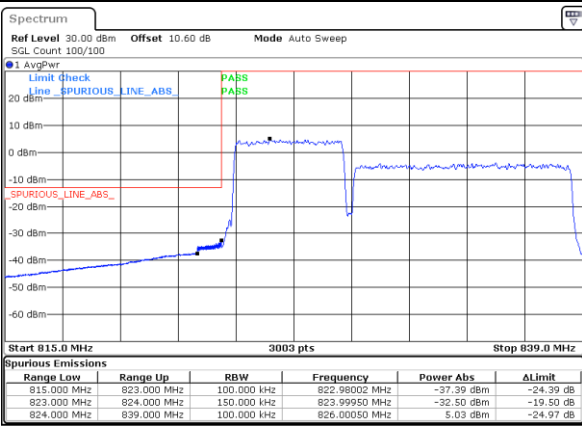


Date: 24.AUG.2022 20:47:49

Date: 24.AUG.2022 20:33:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.AUG.2022 20:40:31

Date: 24.AUG.2022 20:26:30