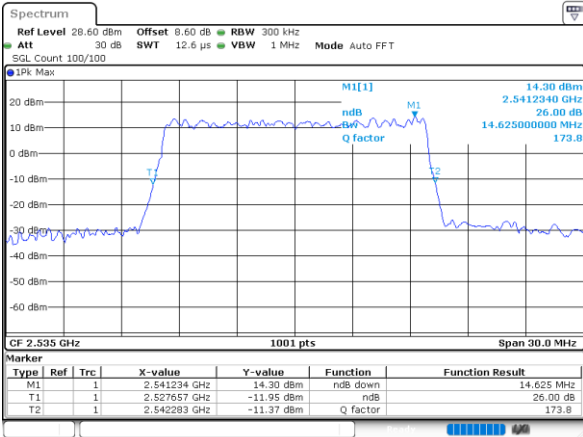


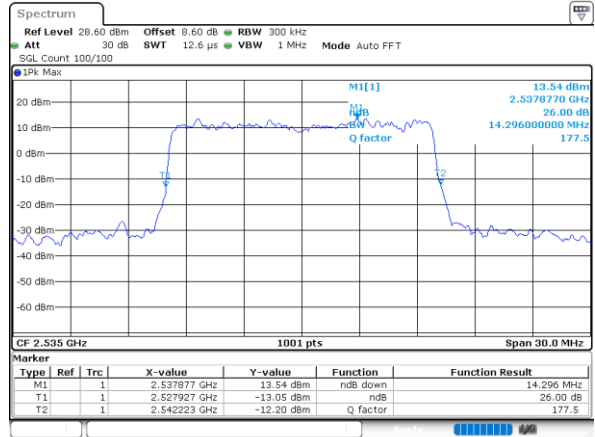


Middle Channel / 15MHz / QPSK



Date: 4.DEC.2023 18:41:15

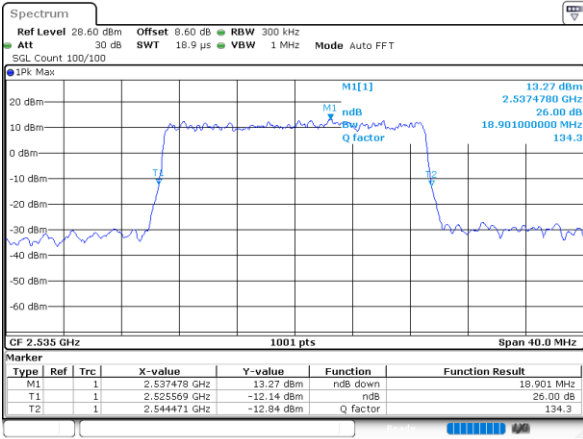
Middle Channel / 15MHz / 16QAM



Date: 4.DEC.2023 18:41:56

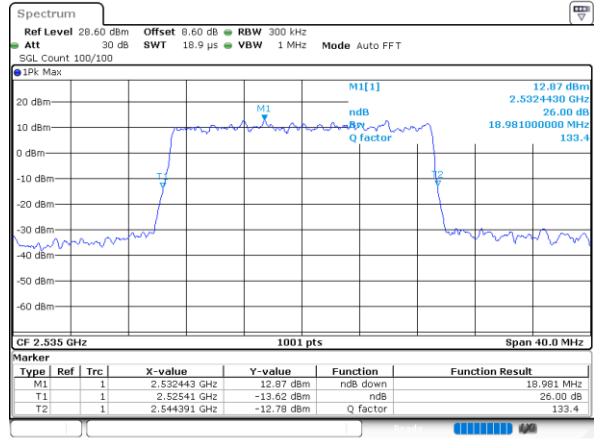
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 4.DEC.2023 20:07:44

Middle Channel / 20MHz / 16QAM

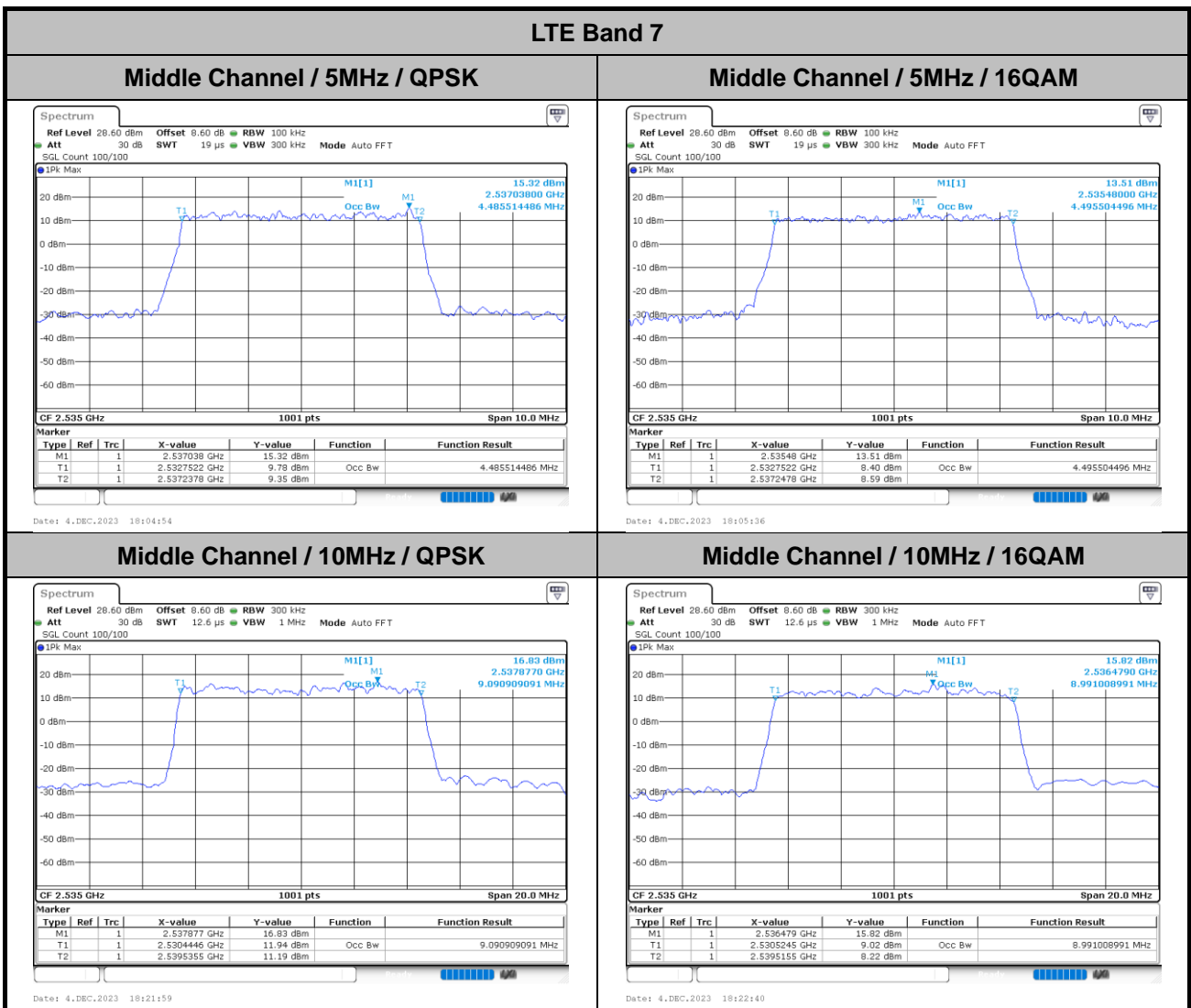


Date: 4.DEC.2023 20:08:23



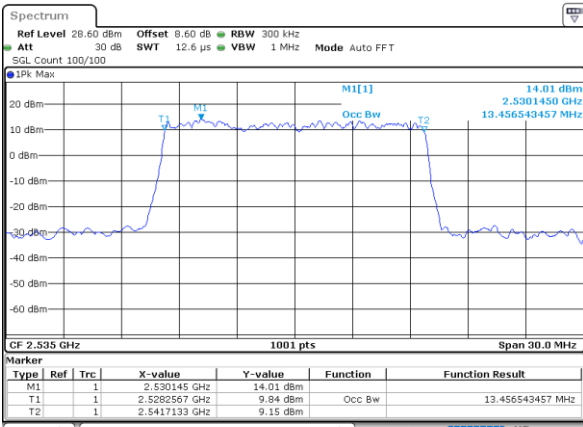
Occupied Bandwidth

| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|-----------|--------------------------|---|---|---|------|-------|-------|-------|-------|-------|-------|-------|
| | BW | | - | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | - | - | - | - | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | - | - | - | - | 4.49 | 4.50 | 9.09 | 8.99 | 13.46 | 13.40 | 17.86 | 17.86 |



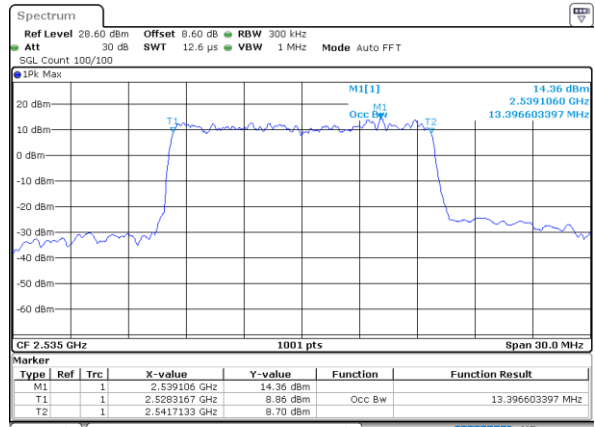


Middle Channel / 15MHz / QPSK



Date: 4.DEC.2023 18:41:01

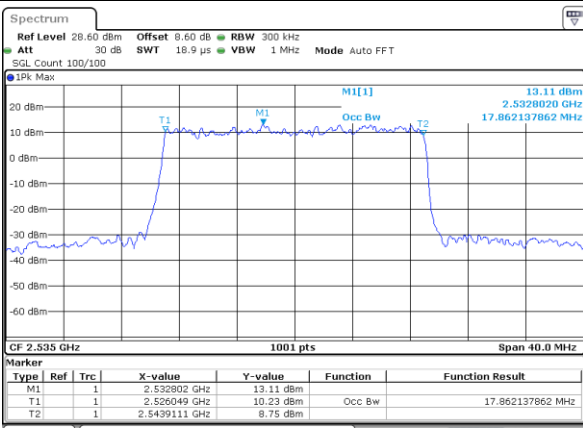
Middle Channel / 15MHz / 16QAM



Date: 4.DEC.2023 18:41:42

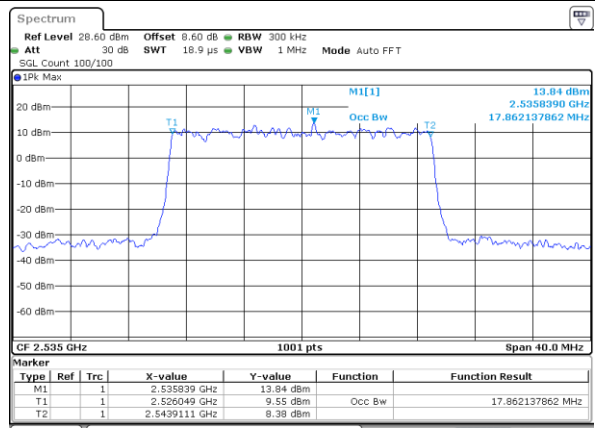
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 4.DEC.2023 20:07:30

Middle Channel / 20MHz / 16QAM



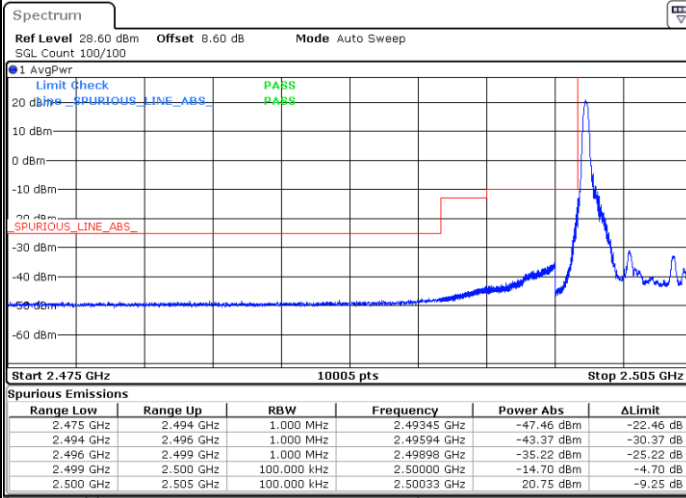
Date: 4.DEC.2023 20:08:09



Conducted Band Edge

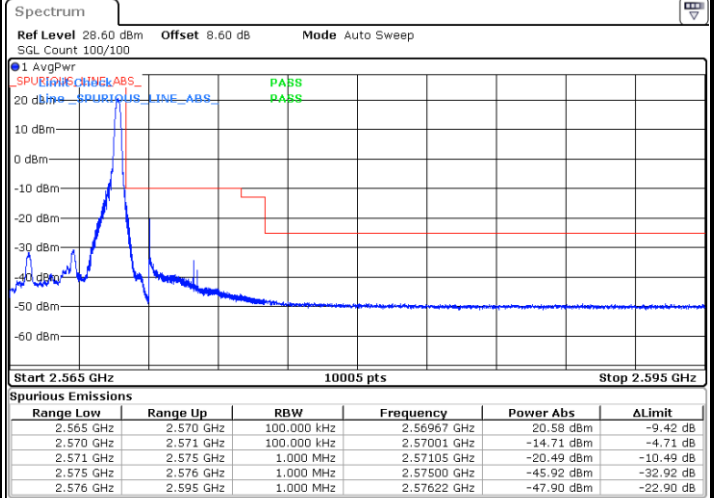
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



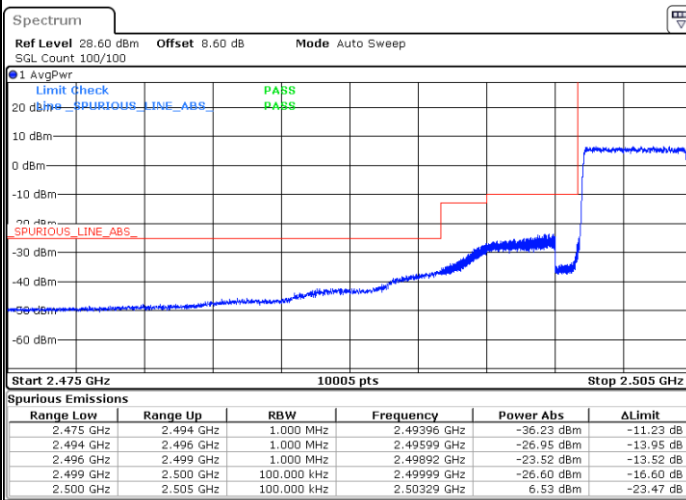
Date: 4.DEC.2023 17:58:11

Highest Band Edge / 1 RB



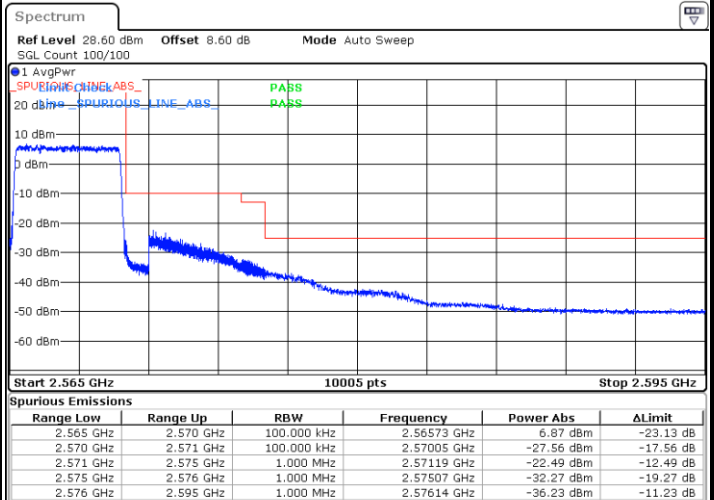
Date: 4.DEC.2023 18:06:37

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:00:36

Highest Band Edge / Full RB

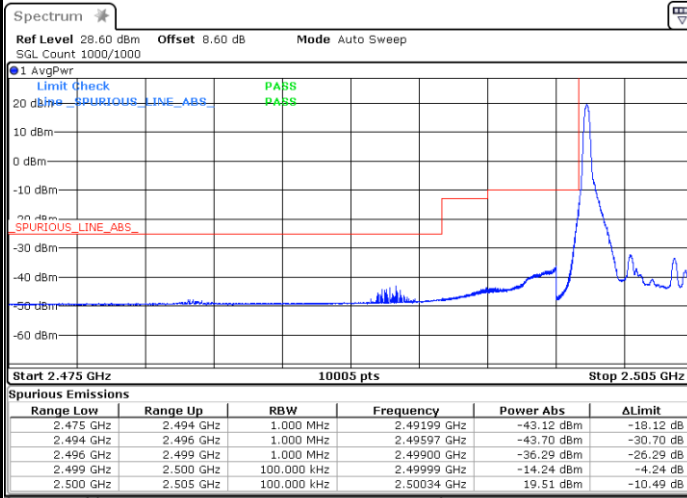


Date: 4.DEC.2023 18:09:01



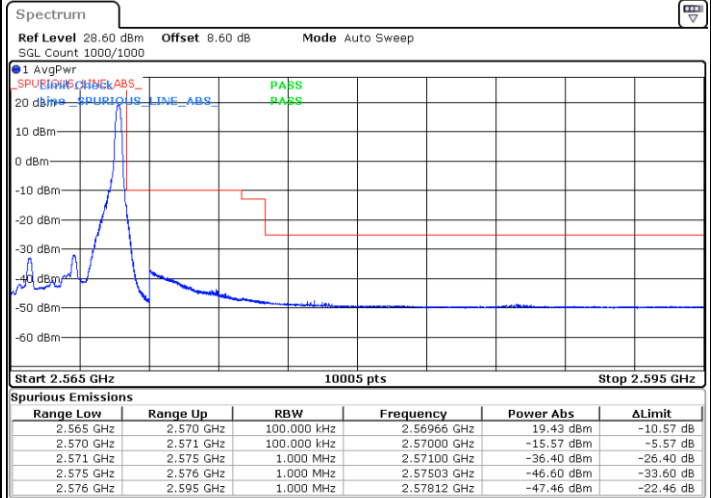
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



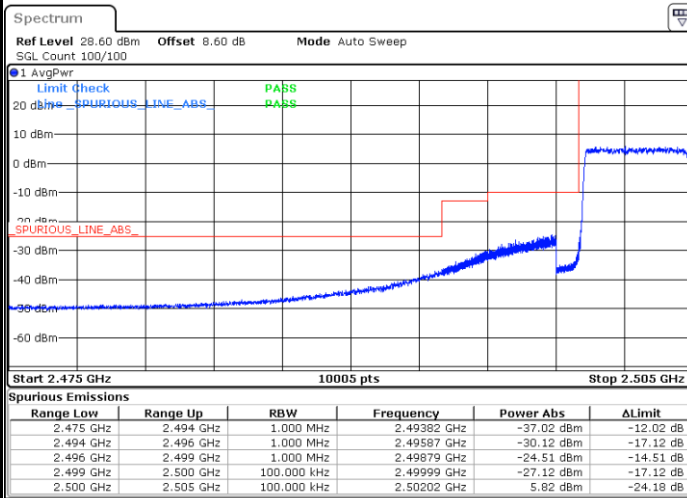
Date: 5.DEC.2023 09:06:31

Highest Band Edge / 1 RB



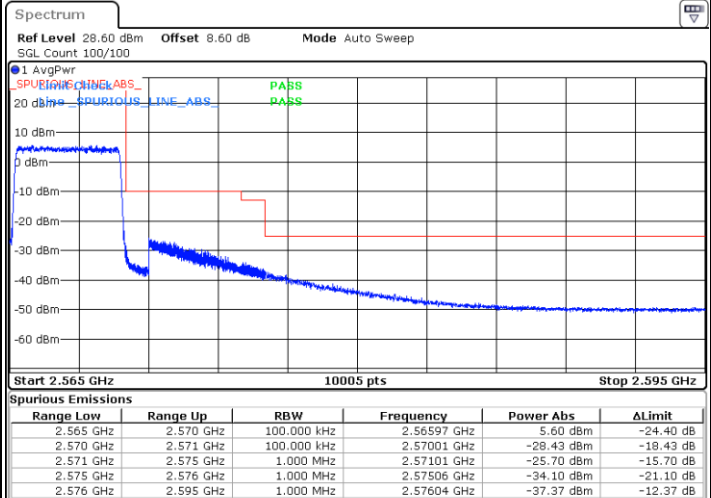
Date: 5.DEC.2023 09:07:41

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:01:25

Highest Band Edge / Full RB

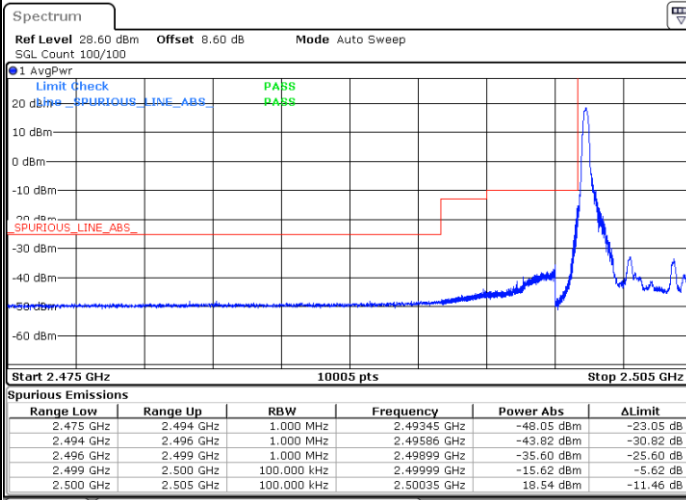


Date: 4.DEC.2023 18:09:49



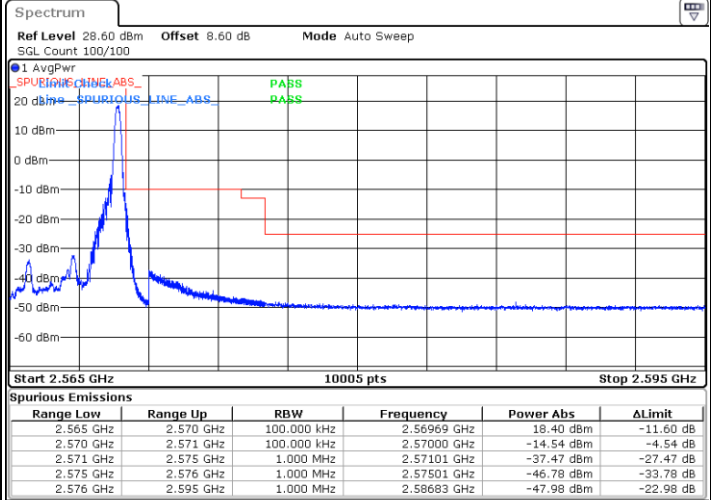
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



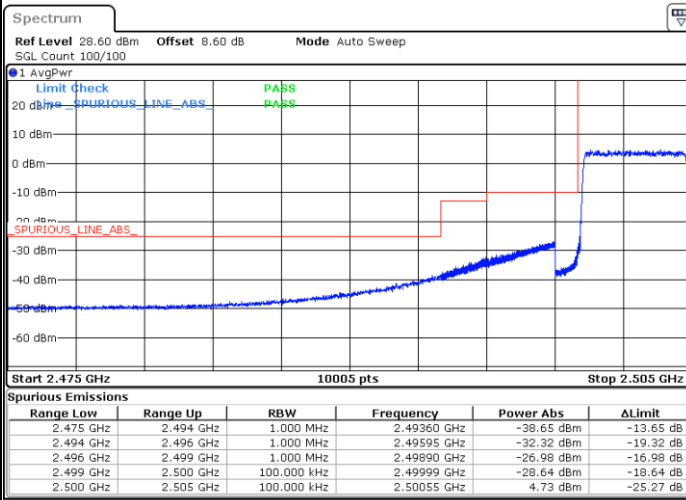
Date: 4.DEC.2023 17:59:48

Highest Band Edge / 1 RB



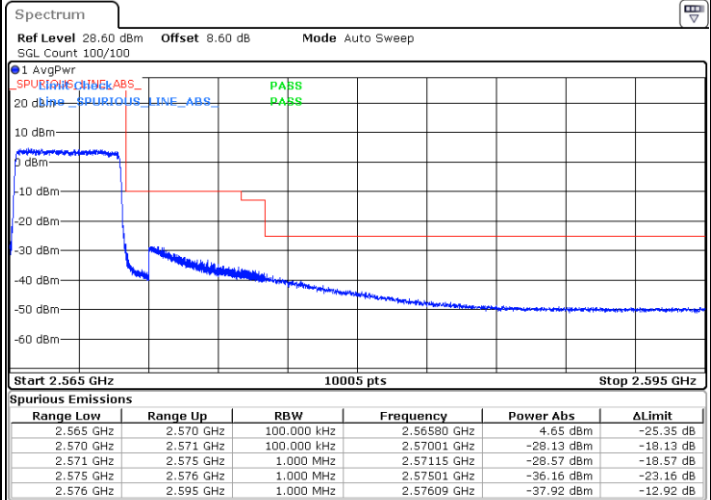
Date: 4.DEC.2023 18:08:12

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:02:13

Highest Band Edge / Full RB

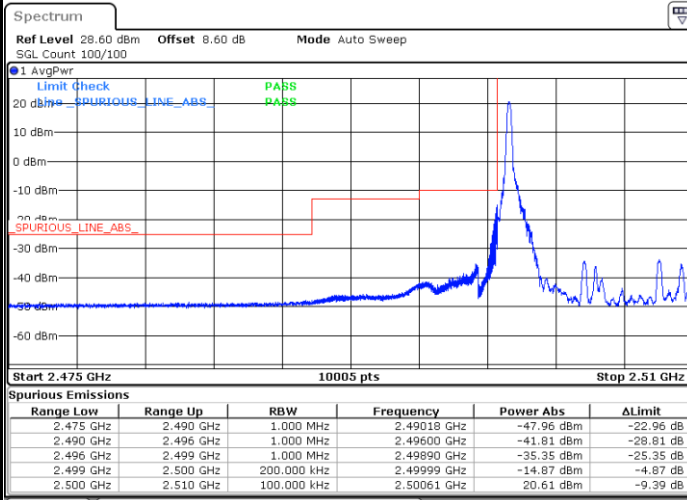


Date: 4.DEC.2023 18:10:37

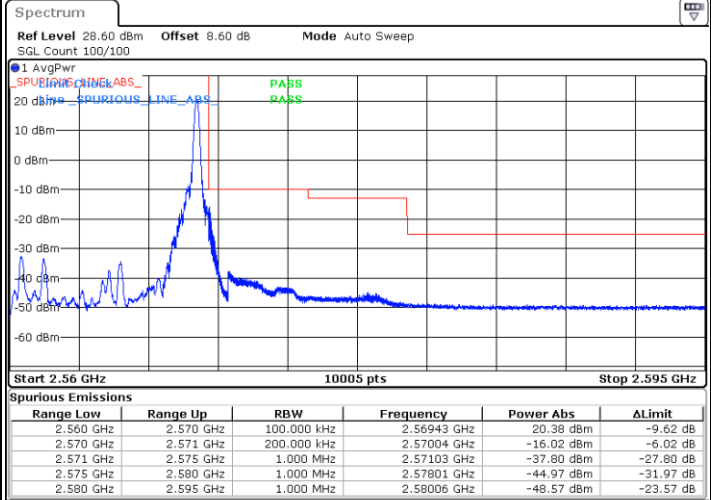


LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



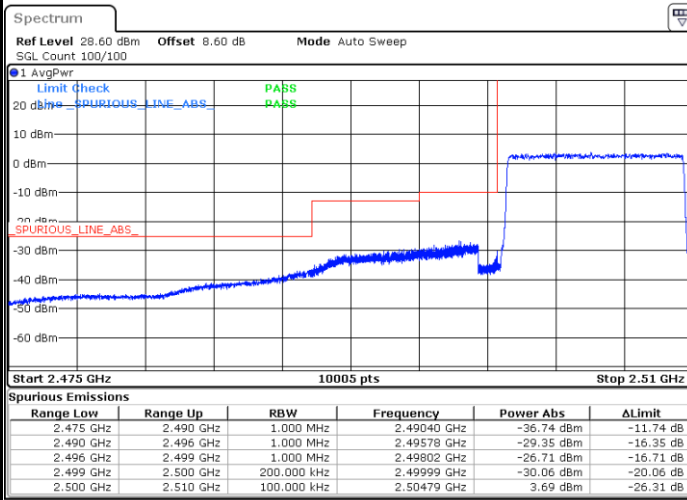
Highest Band Edge / 1 RB



Date: 4.DEC.2023 18:13:18

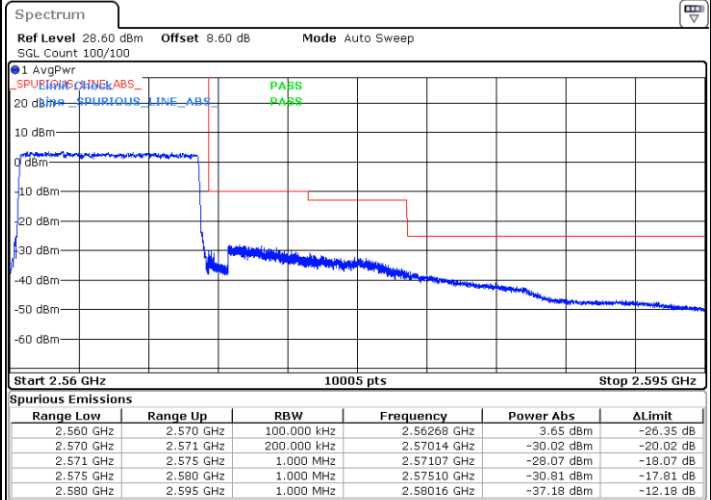
Date: 4.DEC.2023 18:23:41

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:16:56

Highest Band Edge / Full RB

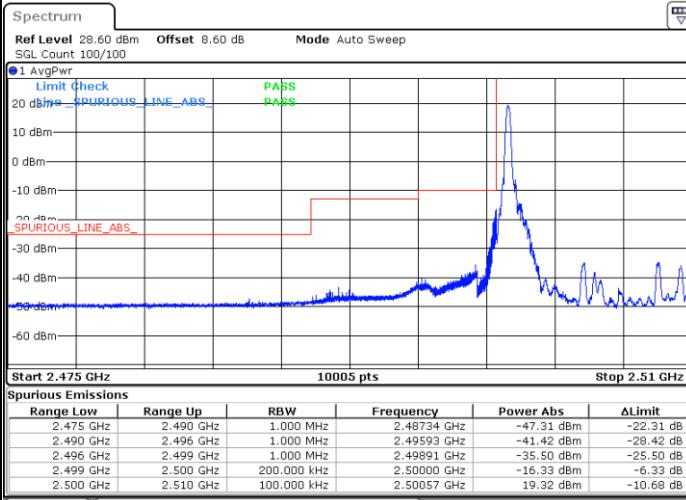


Date: 4.DEC.2023 18:28:04



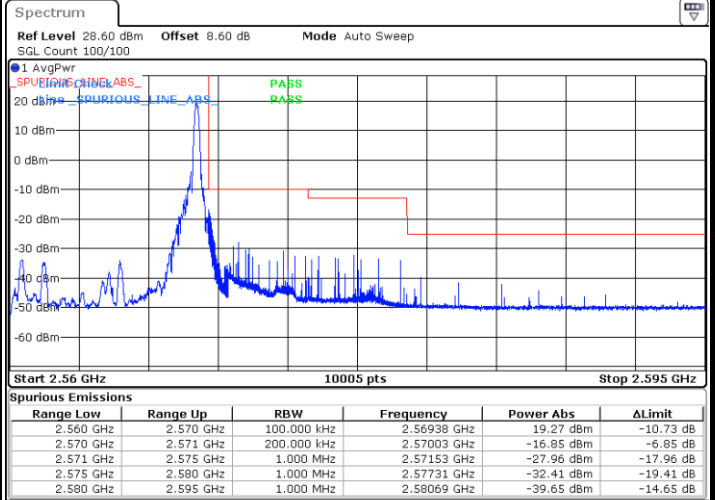
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



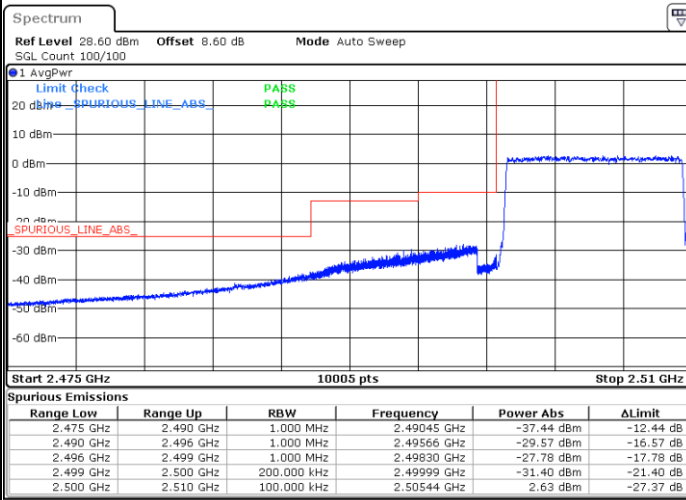
Date: 4.DEC.2023 18:15:20

Highest Band Edge / 1 RB



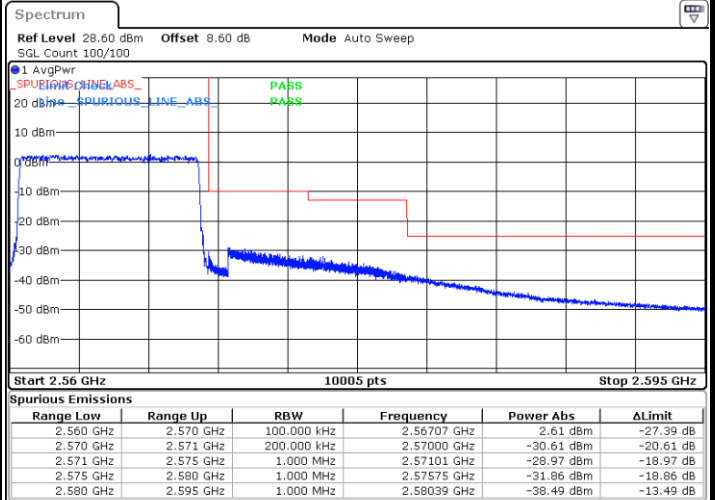
Date: 4.DEC.2023 18:25:14

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:17:44

Highest Band Edge / Full RB

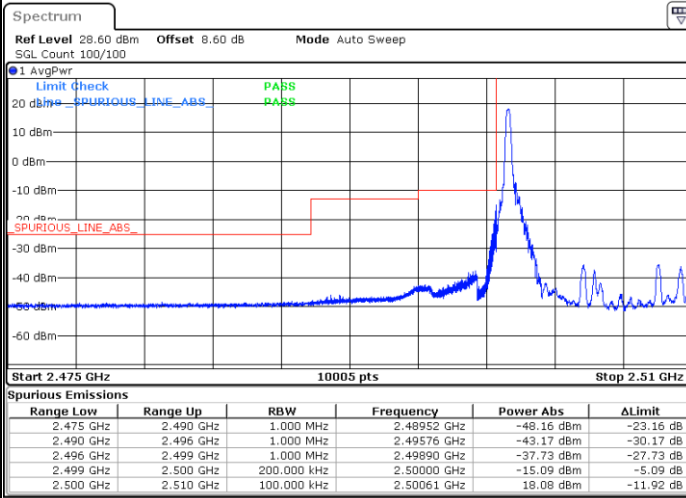


Date: 4.DEC.2023 18:28:53



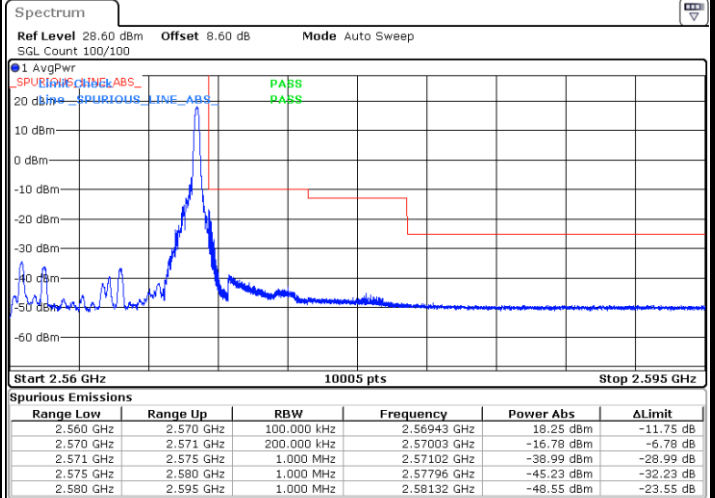
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1RB



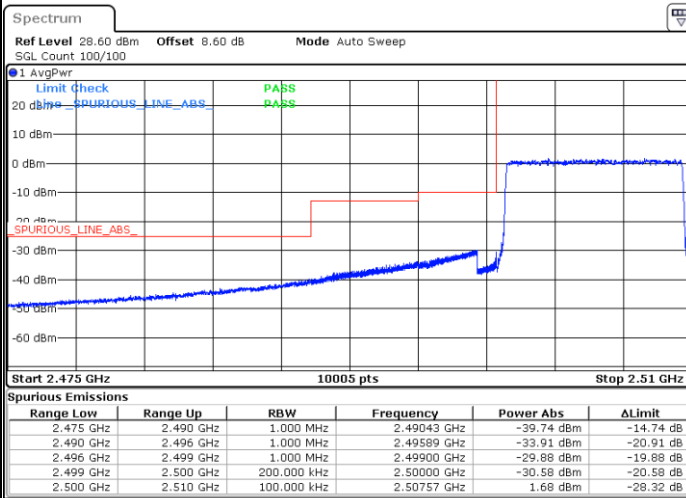
Date: 4.DEC.2023 18:16:08

Highest Band Edge / 1 RB



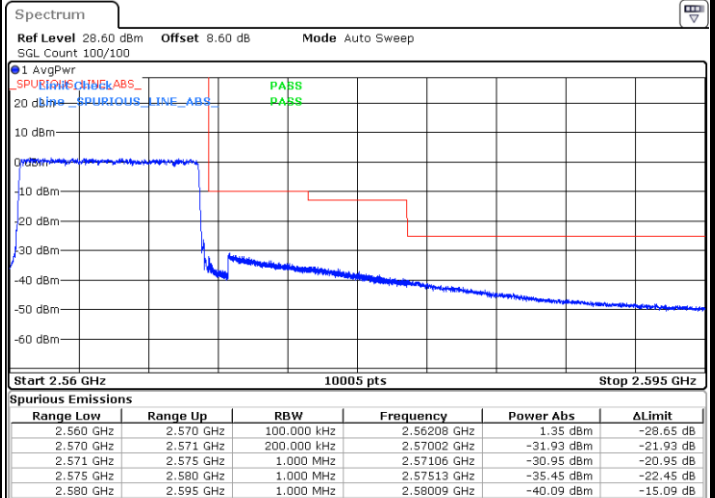
Date: 4.DEC.2023 18:26:02

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:18:32

Highest Band Edge / Full RB

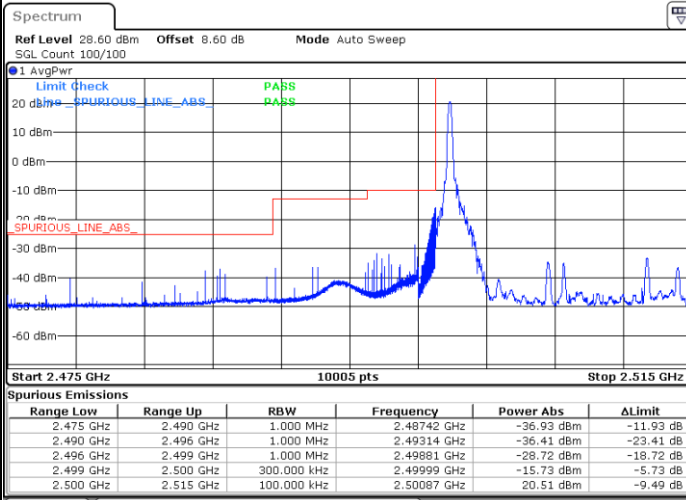


Date: 4.DEC.2023 18:29:41



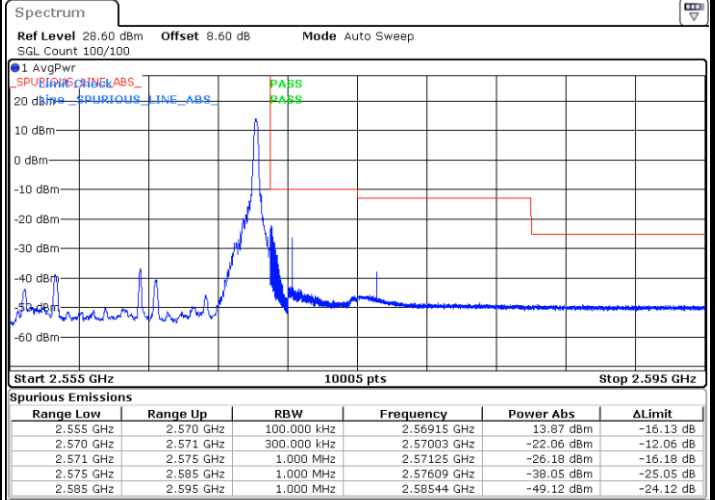
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



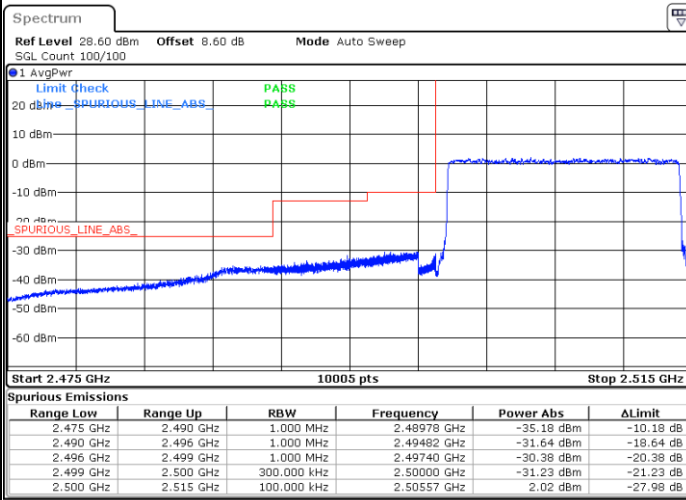
Date: 4.DEC.2023 18:33:31

Highest Band Edge / 1 RB



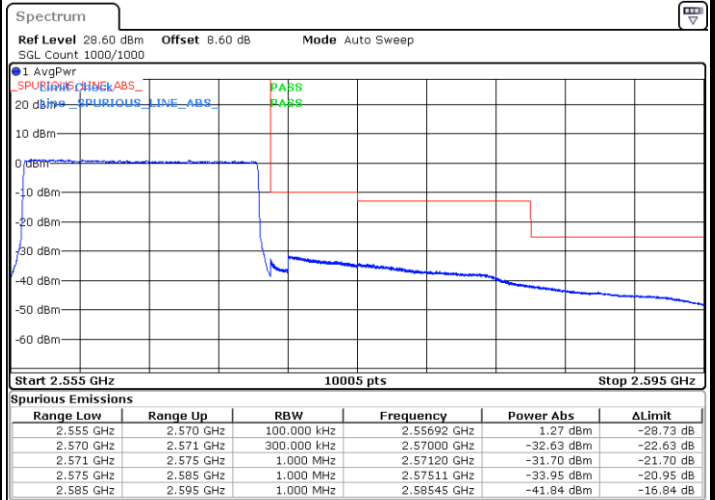
Date: 4.DEC.2023 18:42:43

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:35:57

Highest Band Edge / Full RB

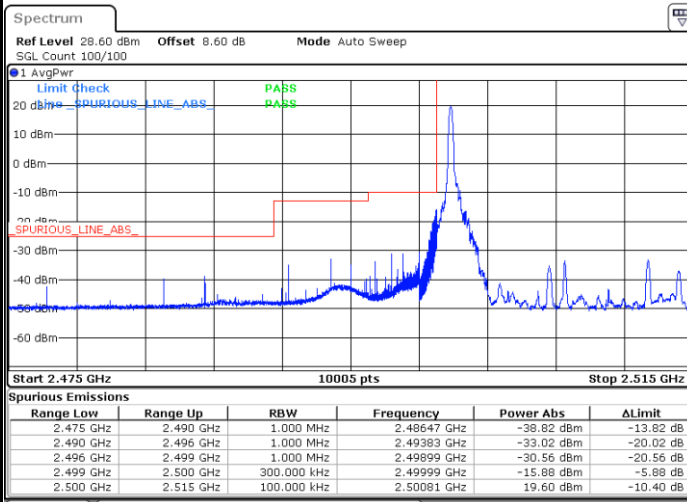


Date: 5.DEC.2023 09:02:57



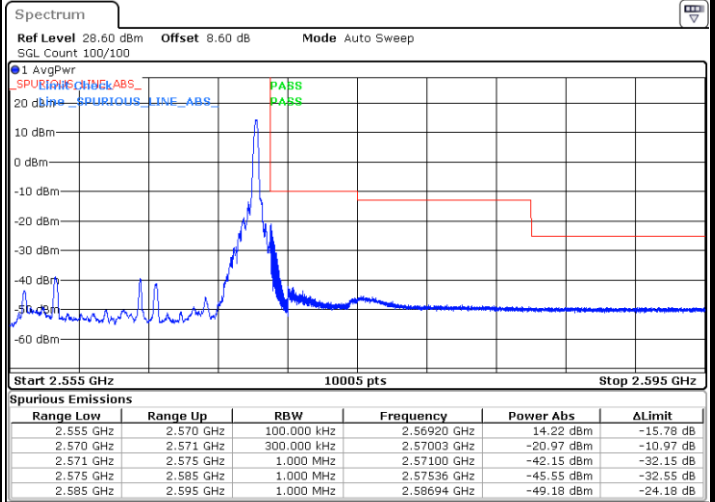
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1RB



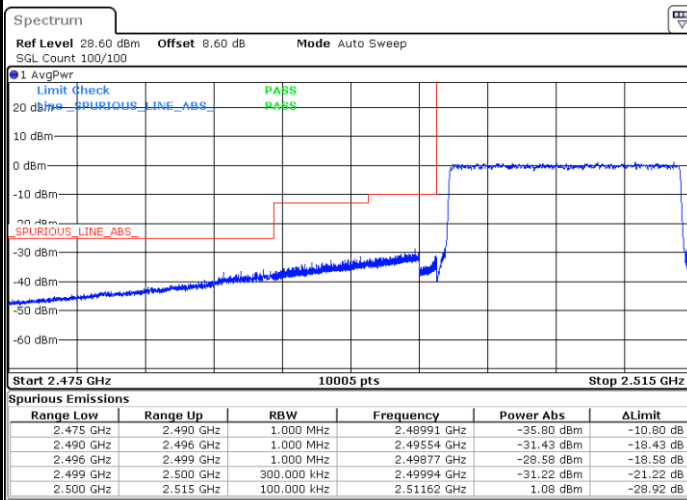
Date: 4.DEC.2023 18:34:19

Highest Band Edge / 1 RB



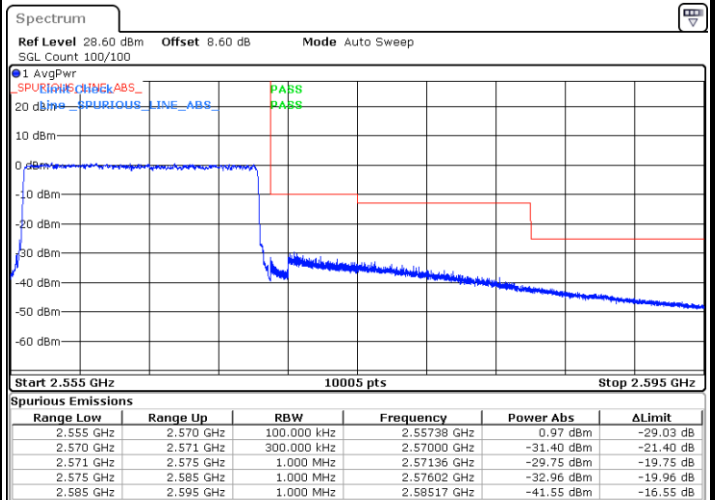
Date: 4.DEC.2023 18:43:31

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:36:46

Highest Band Edge / Full RB

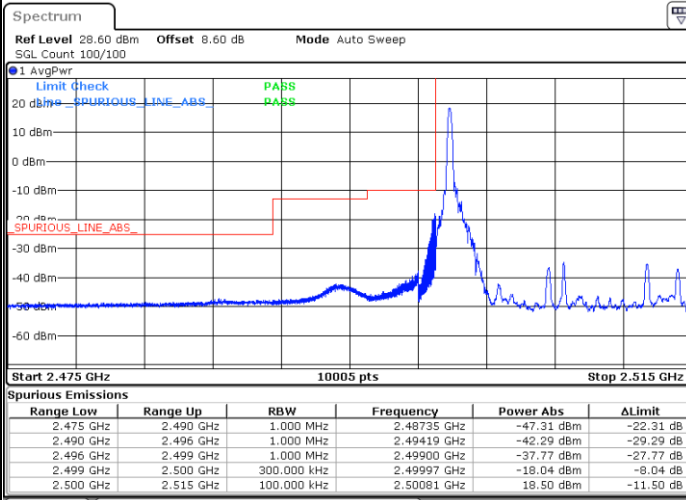


Date: 5.DEC.2023 09:03:54



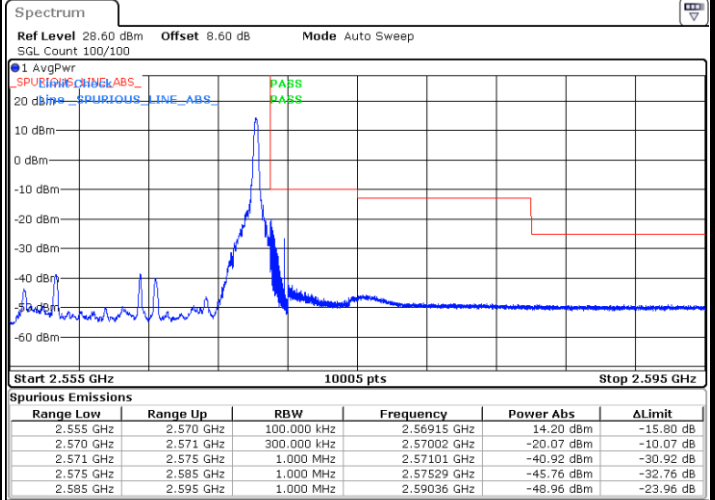
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB



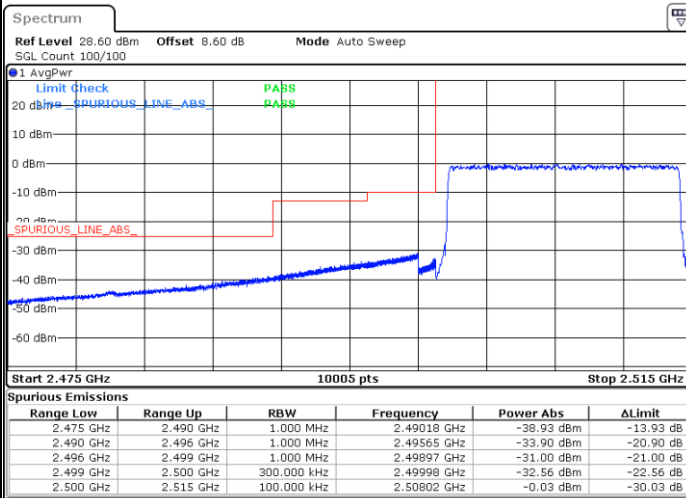
Date: 4.DEC.2023 18:35:08

Highest Band Edge / 1 RB



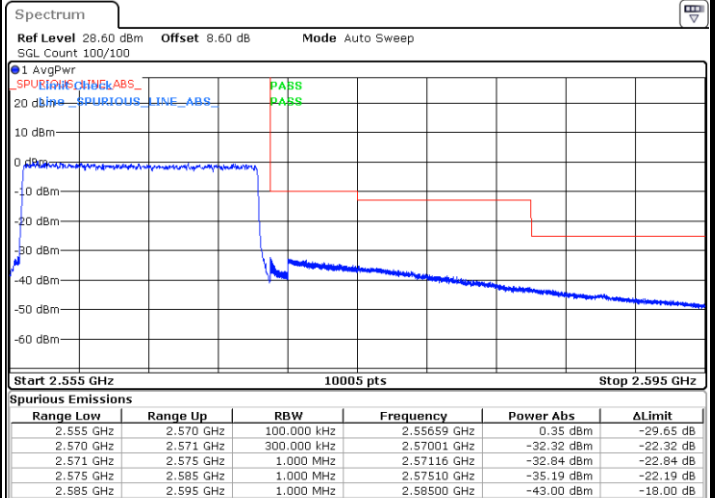
Date: 4.DEC.2023 18:44:19

Lowest Band Edge / Full RB



Date: 4.DEC.2023 18:37:34

Highest Band Edge / Full RB

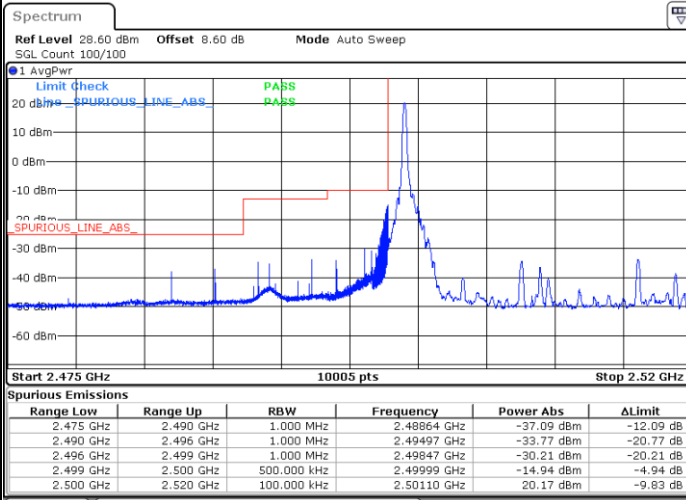


Date: 4.DEC.2023 19:58:29



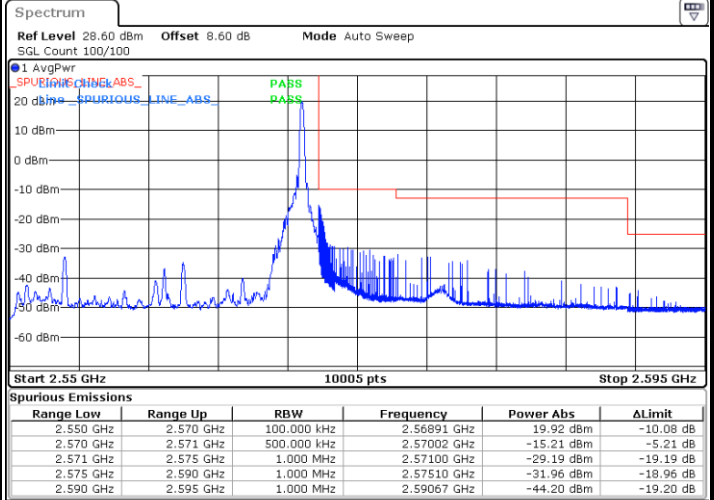
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



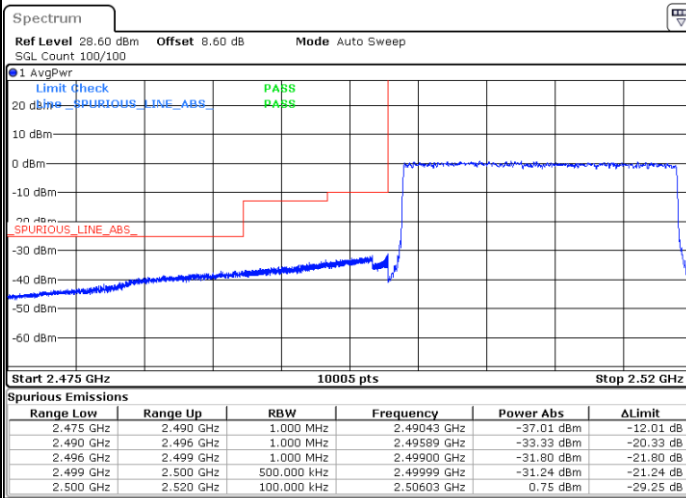
Date: 4.DEC.2023 20:01:03

Highest Band Edge / 1 RB



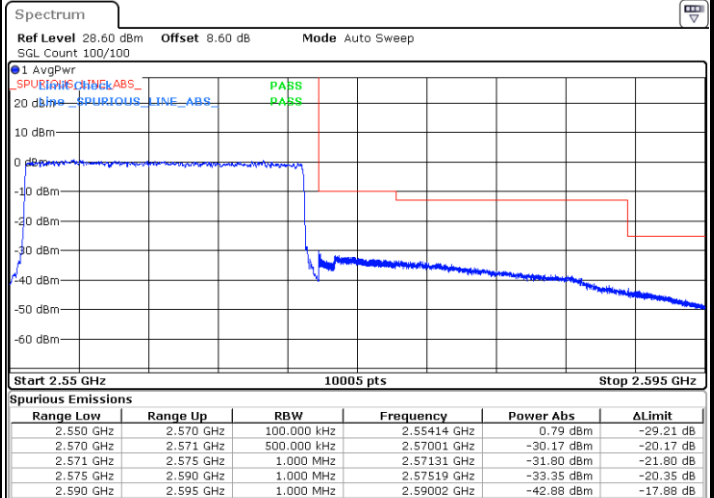
Date: 4.DEC.2023 20:10:29

Lowest Band Edge / Full RB



Date: 4.DEC.2023 20:03:22

Highest Band Edge / Full RB

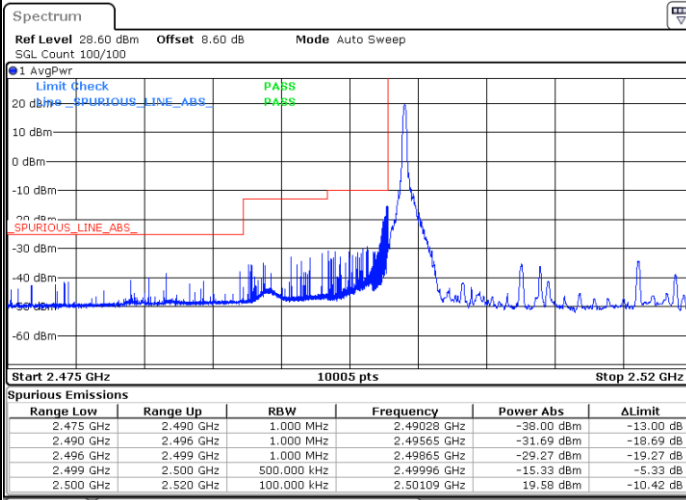


Date: 4.DEC.2023 20:12:47



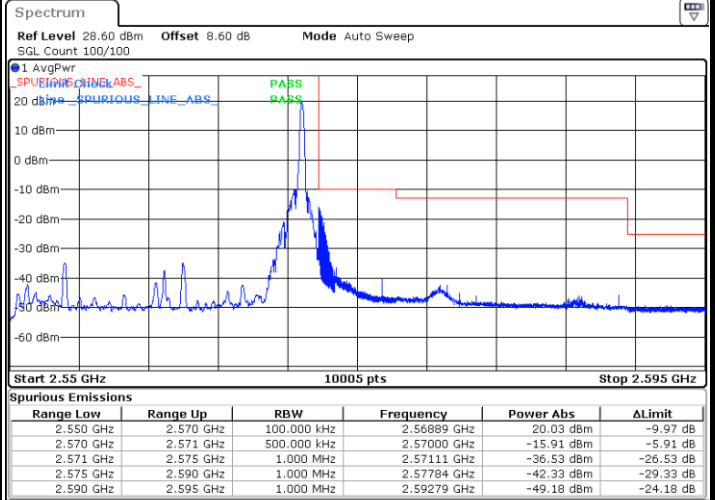
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB



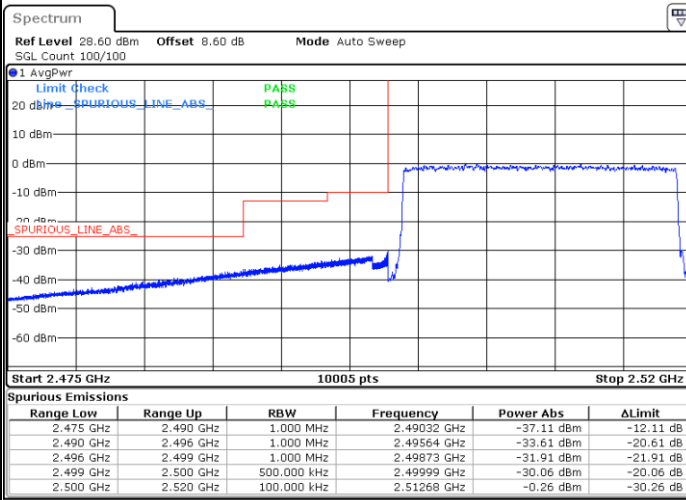
Date: 4.DEC.2023 20:01:49

Highest Band Edge / 1 RB



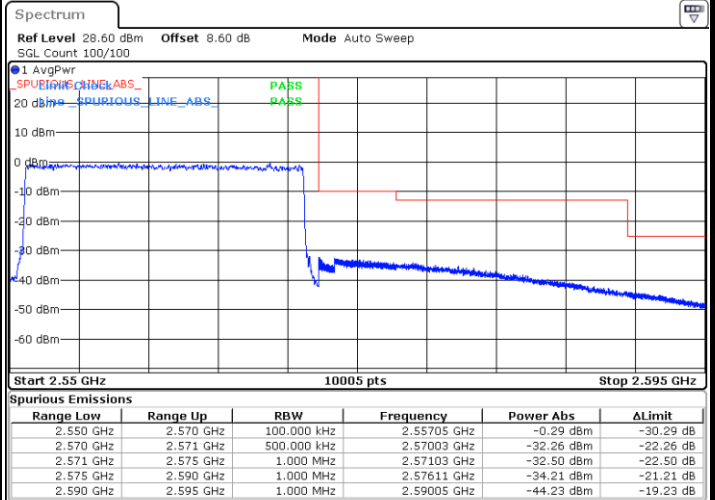
Date: 4.DEC.2023 20:11:15

Lowest Band Edge / Full RB



Date: 4.DEC.2023 20:04:08

Highest Band Edge / Full RB

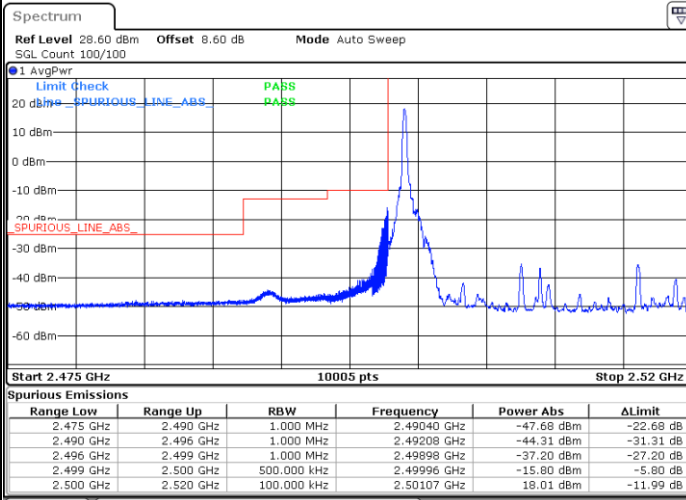


Date: 4.DEC.2023 20:13:33



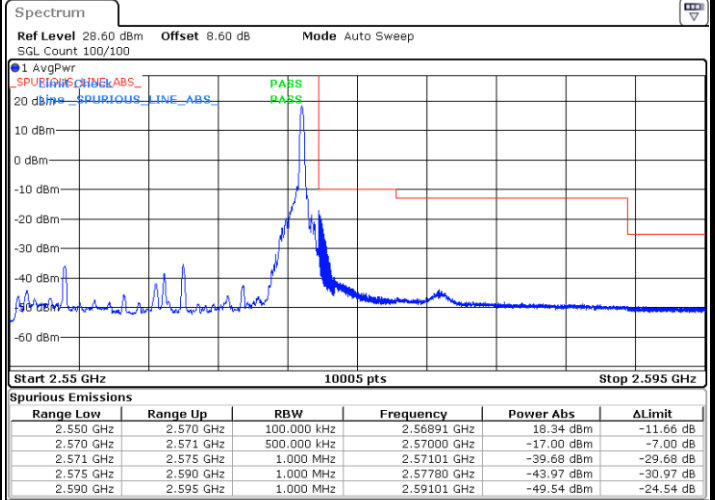
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1RB



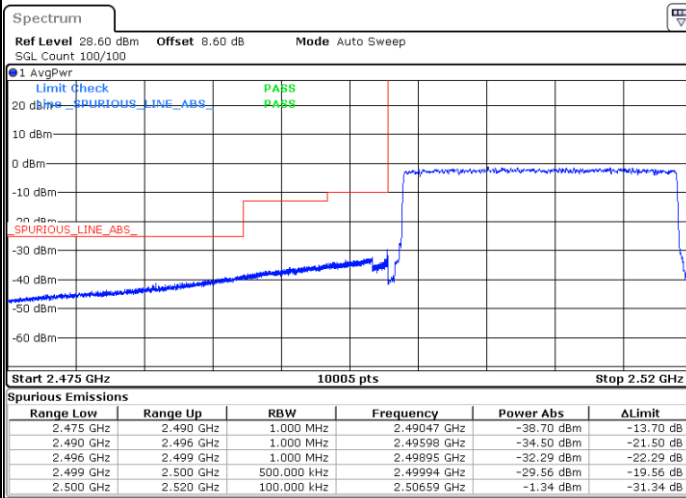
Date: 4.DEC.2023 20:02:36

Highest Band Edge / 1 RB



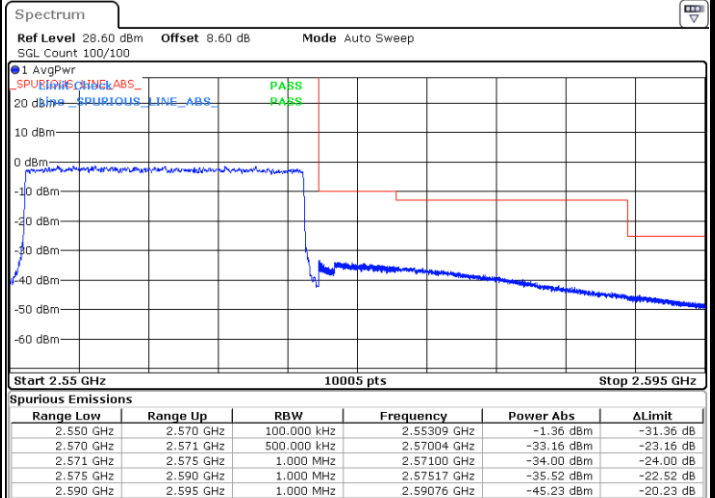
Date: 4.DEC.2023 20:12:01

Lowest Band Edge / Full RB



Date: 4.DEC.2023 20:04:54

Highest Band Edge / Full RB



Date: 4.DEC.2023 20:14:19



Conducted Spurious Emission

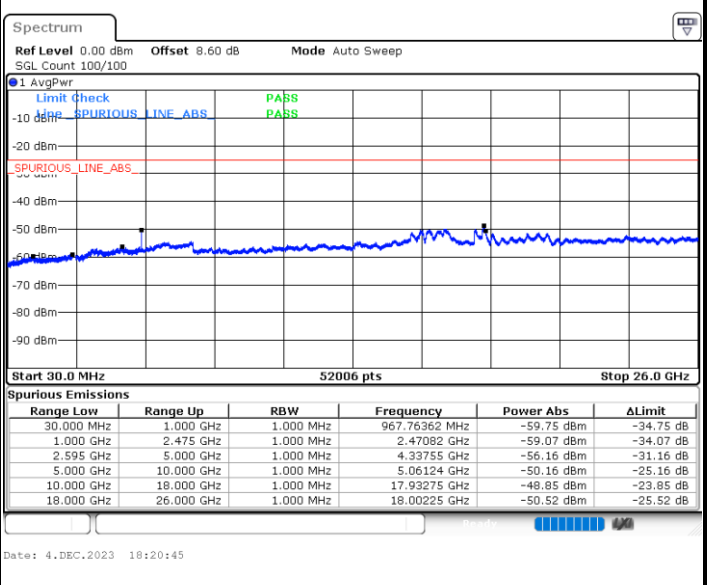
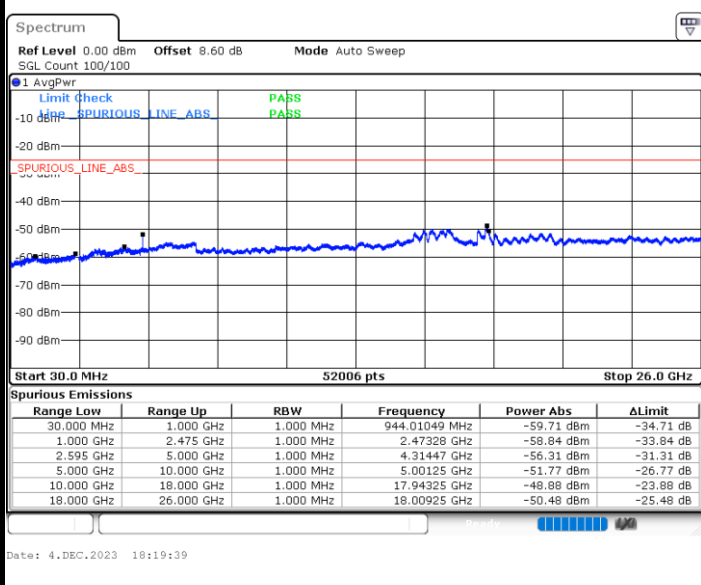




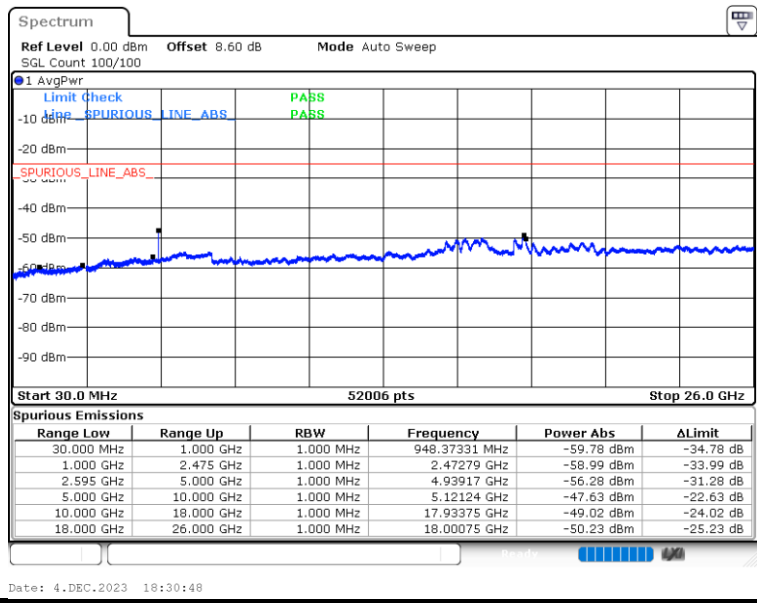
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

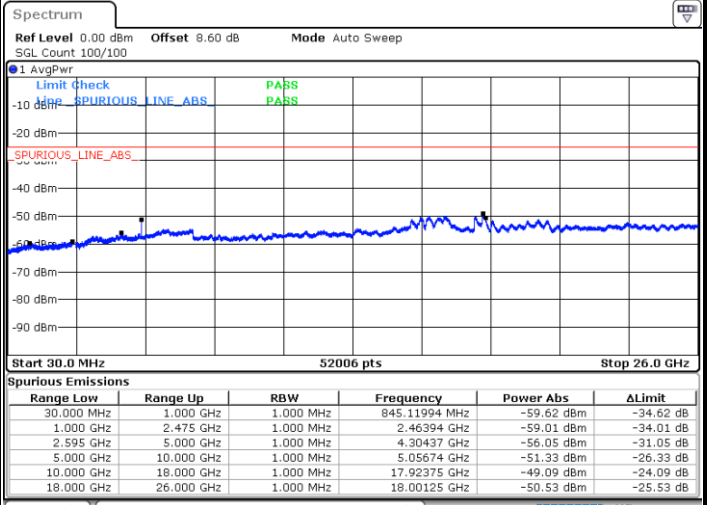
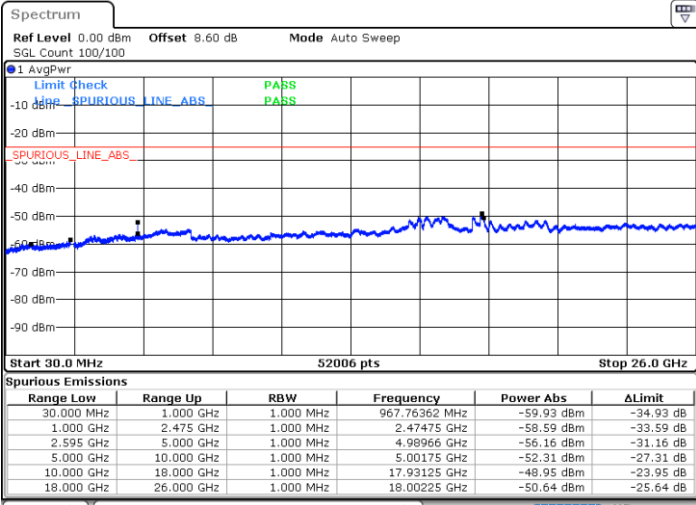




LTE Band 7 / 15MHz

Lowest Channel / QPSK

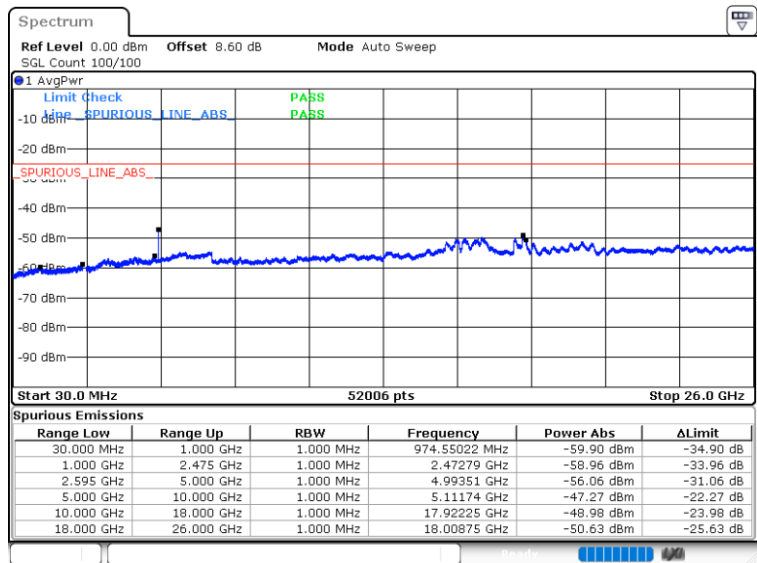
Middle Channel / QPSK



Date: 4. DEC. 2023 18:38:41

Date: 4. DEC. 2023 18:39:47

Highest Channel / QPSK



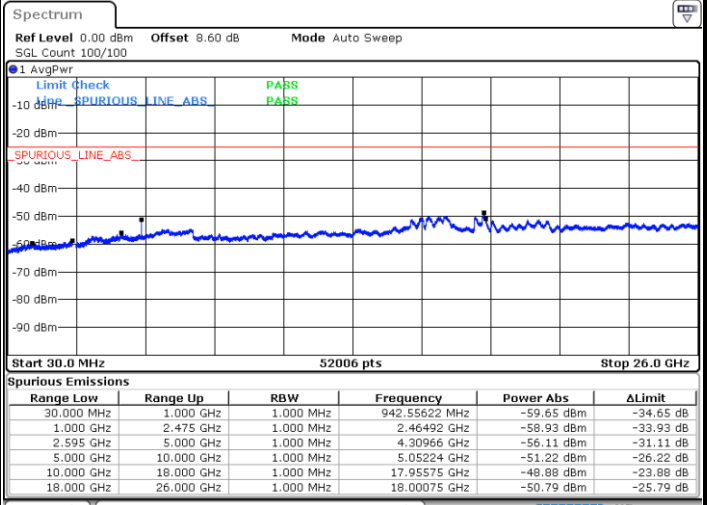
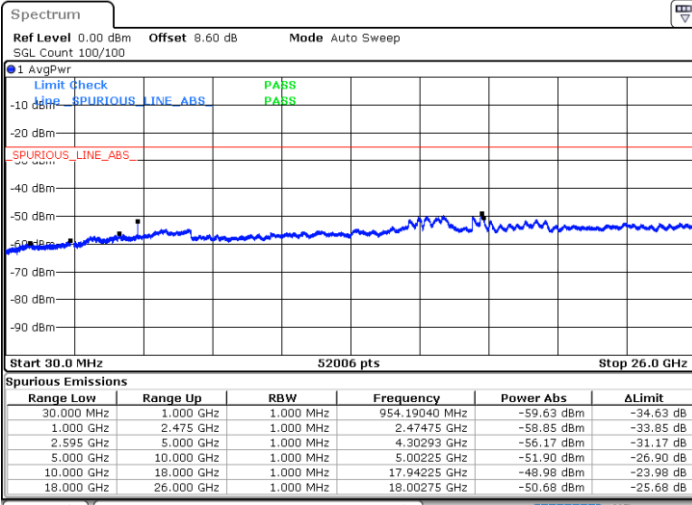
Date: 4. DEC. 2023 19:59:33



LTE Band 7 / 20MHz

Lowest Channel / QPSK

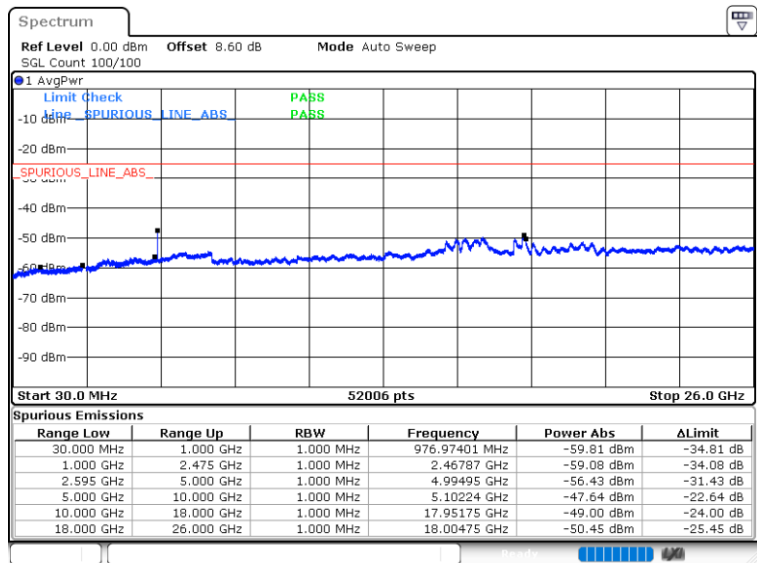
Middle Channel / QPSK



Date: 4. DEC. 2023 20:05:59

Date: 4. DEC. 2023 20:07:03

Highest Channel / QPSK



Date: 4. DEC. 2023 20:15:24



Frequency Stability

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0037 | PASS |
| 40 | Normal Voltage | 0.0032 | |
| 30 | Normal Voltage | 0.0007 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0002 | |
| -10 | Normal Voltage | 0.0041 | |
| -20 | Normal Voltage | 0.0045 | |
| -30 | Normal Voltage | 0.0055 | |
| 20 | Maximum Voltage | 0.0007 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0040 | |

Note:

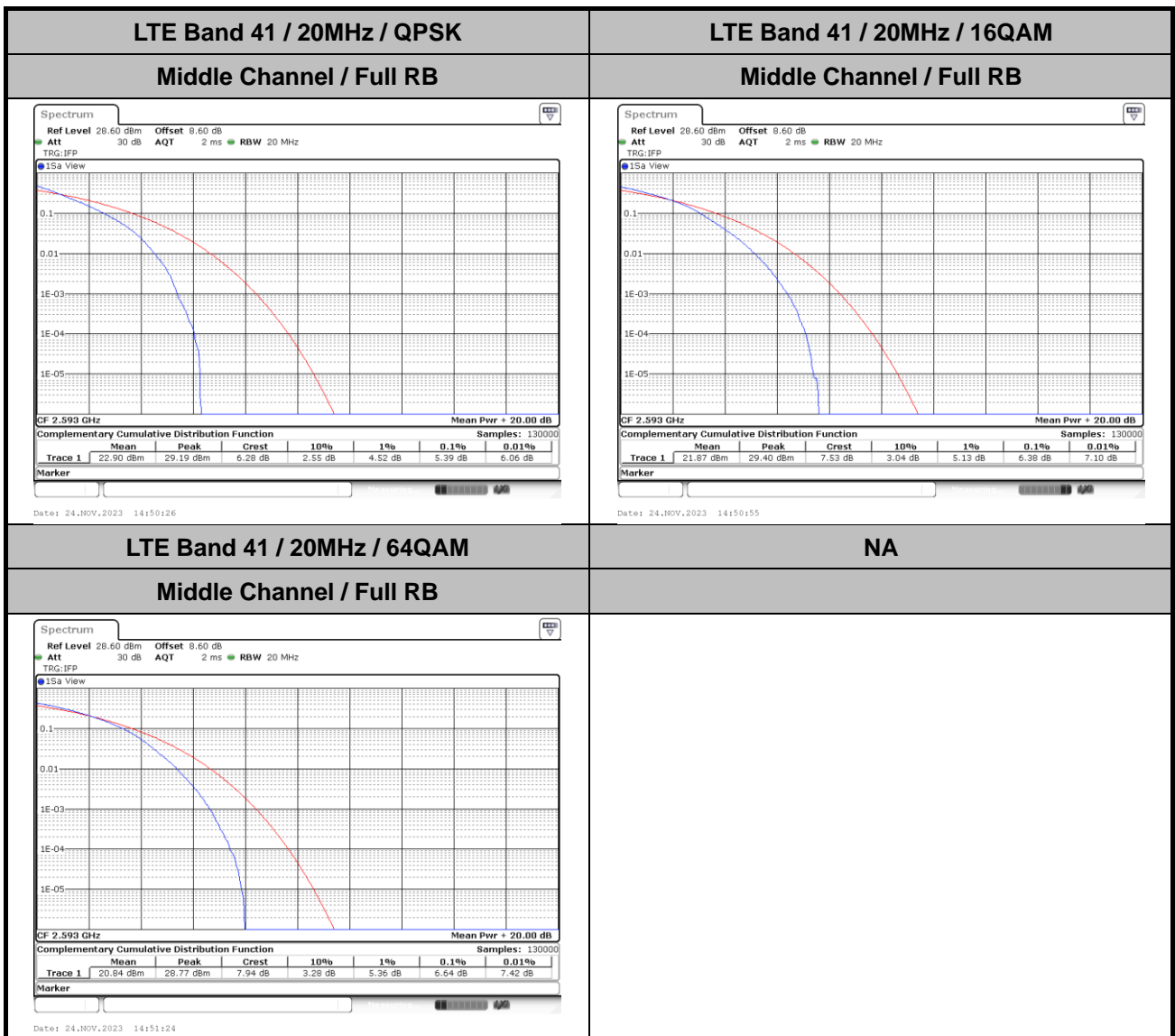
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

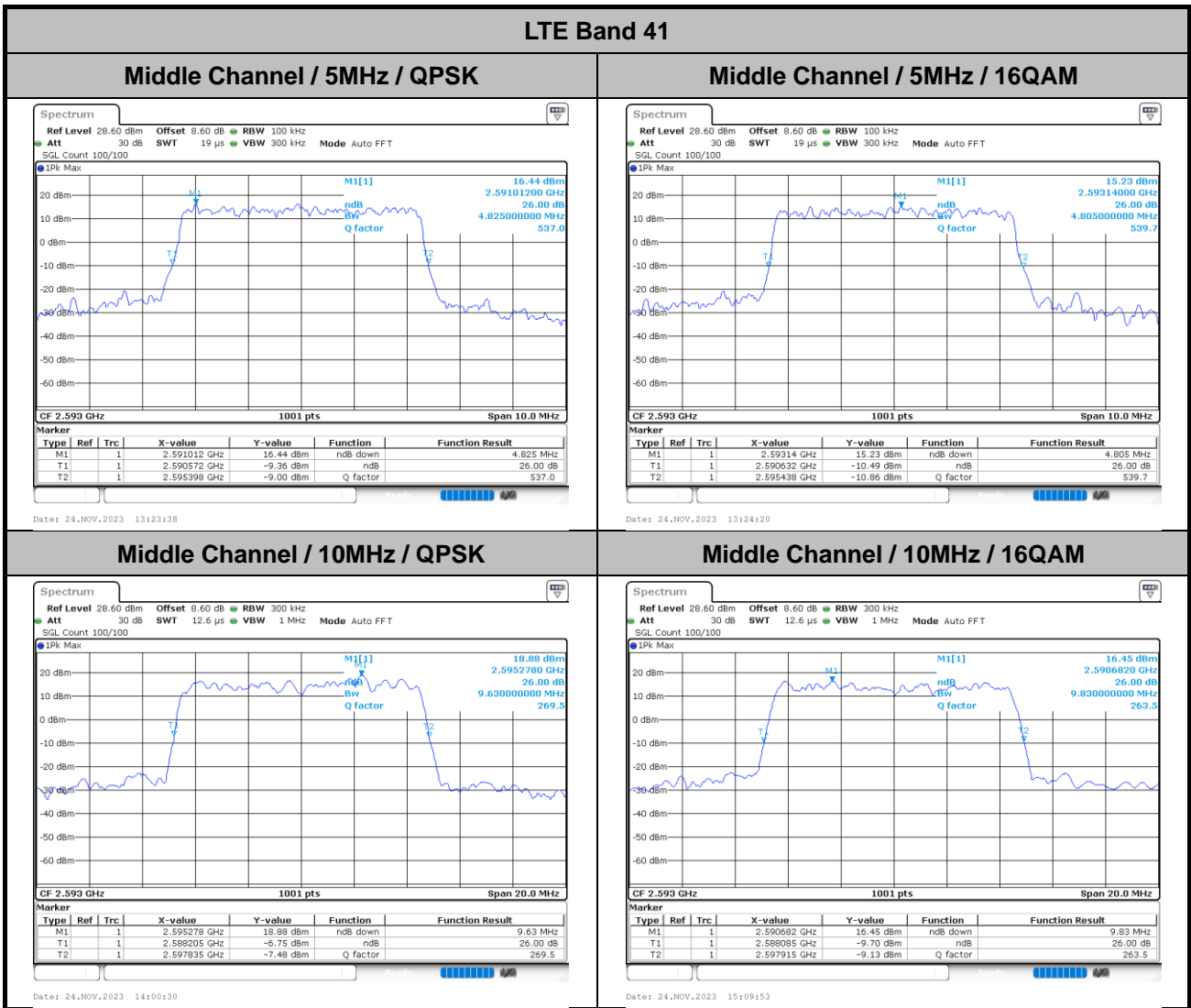
| Mode | LTE Band 41 / 20MHz | | | |
|-----------|---------------------|---------|---------|-------------|
| Mod. | QPSK | 16QAM | 64QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Result |
| Middle CH | 5.39 | 6.38 | 6.64 | PASS |





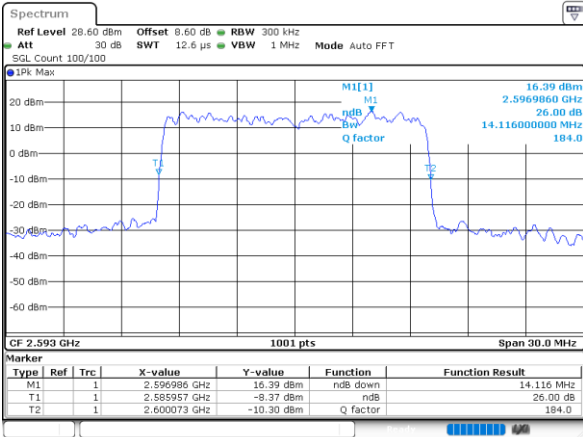
26dB Bandwidth

| Mode | LTE Band 41 : 26dB BW(MHz) | | | | | | | | | | | |
|-----------|----------------------------|--|---|--|------|-------|-------|-------|-------|-------|-------|-------|
| | - | | - | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | - | | - | | 5MHz | 10MHz | 10MHz | 16QAM | 15MHz | 16QAM | 18.86 | 18.70 |
| Mod. | - | | - | | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | - | | - | | 4.83 | 4.81 | 9.63 | 9.83 | 14.12 | 14.21 | 18.86 | 18.70 |



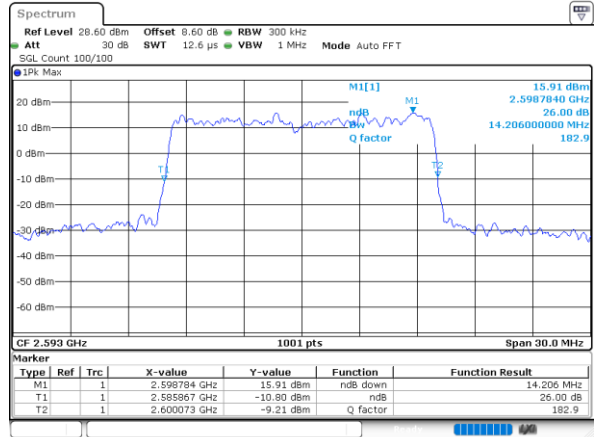


Middle Channel / 15MHz / QPSK



Date: 24.NOV.2023 14:24:36

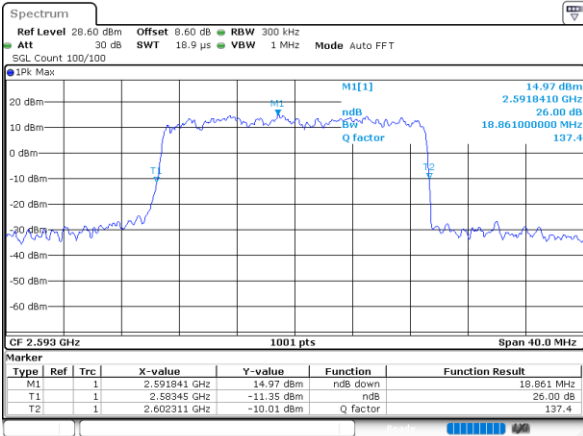
Middle Channel / 15MHz / 16QAM



Date: 24.NOV.2023 14:25:18

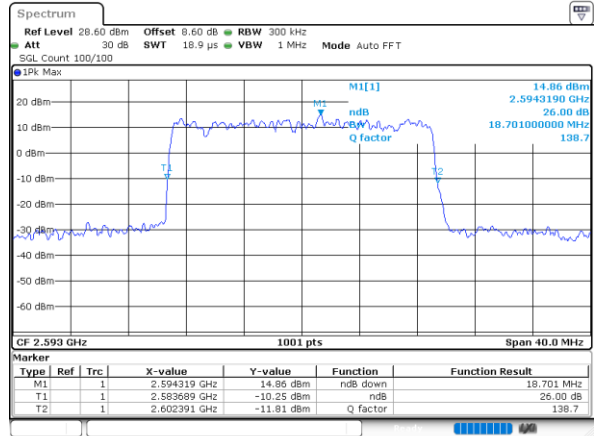
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 24.NOV.2023 14:49:16

Middle Channel / 20MHz / 16QAM

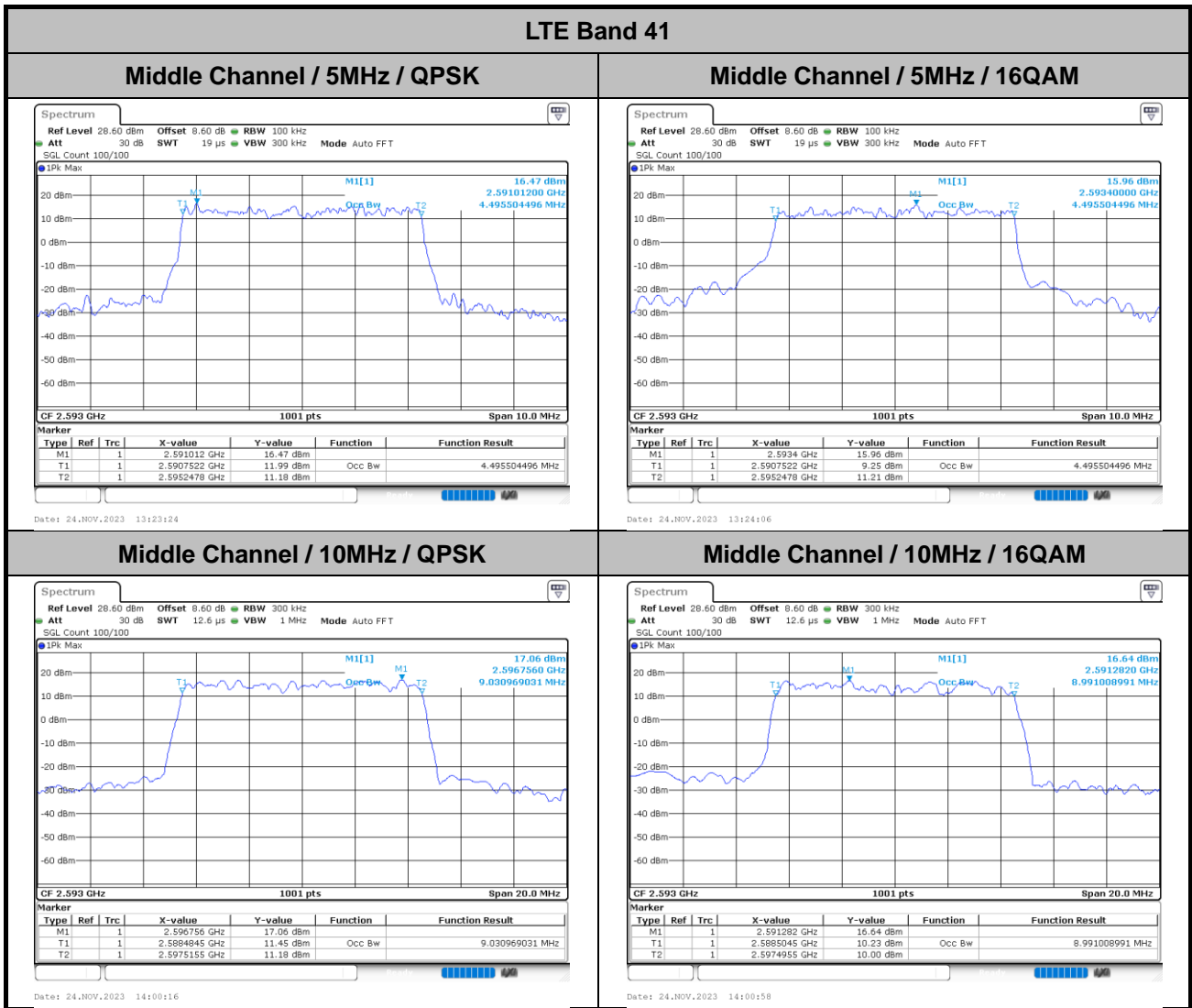


Date: 24.NOV.2023 14:49:58



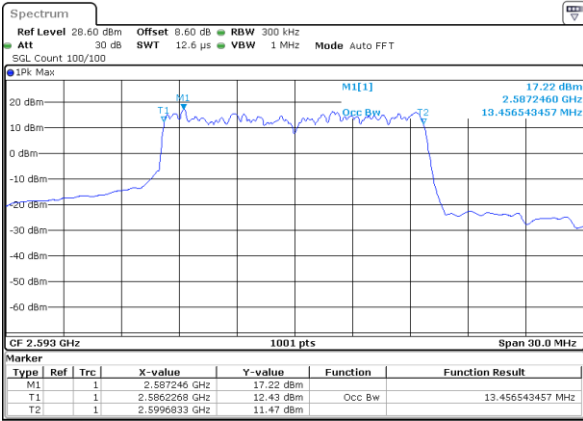
Occupied Bandwidth

| Mode | LTE Band 41 : 99%OBW(MHz) | | | | | | | | | | | |
|-----------|---------------------------|---|---|------|------|-------|------|-------|-------|-------|-------|-------|
| BW | - | | | 5MHz | | 10MHz | | 15MHz | | 20MHz | | |
| Mod. | - | - | - | - | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | - | - | - | - | 4.50 | 4.50 | 9.03 | 8.99 | 13.46 | 13.55 | 17.90 | 17.90 |



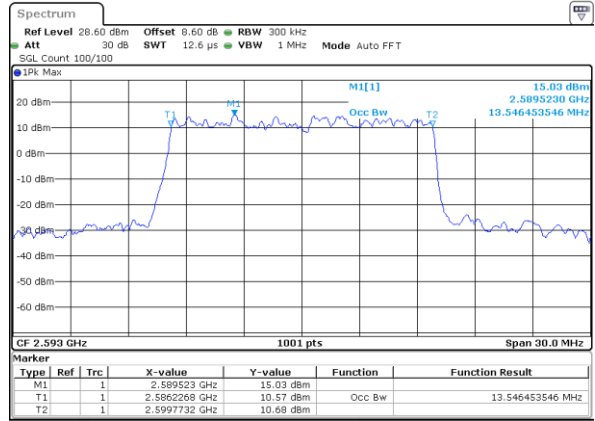


Middle Channel / 15MHz / QPSK



Date: 24.NOV.2023 14:24:22

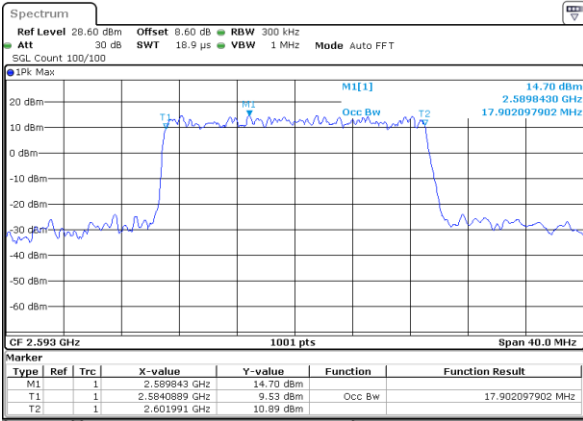
Middle Channel / 15MHz / 16QAM



Date: 24.NOV.2023 14:25:04

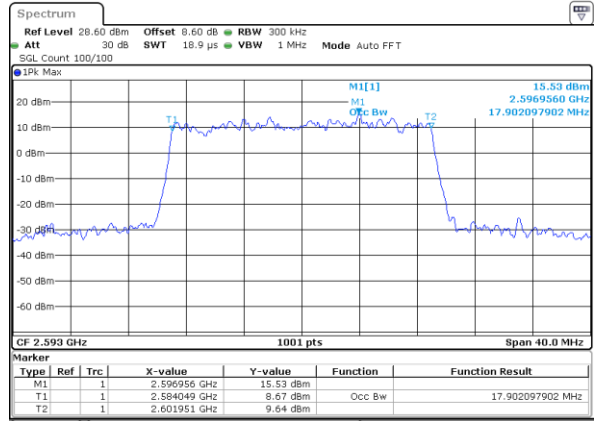
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 24.NOV.2023 14:49:02

Middle Channel / 20MHz / 16QAM



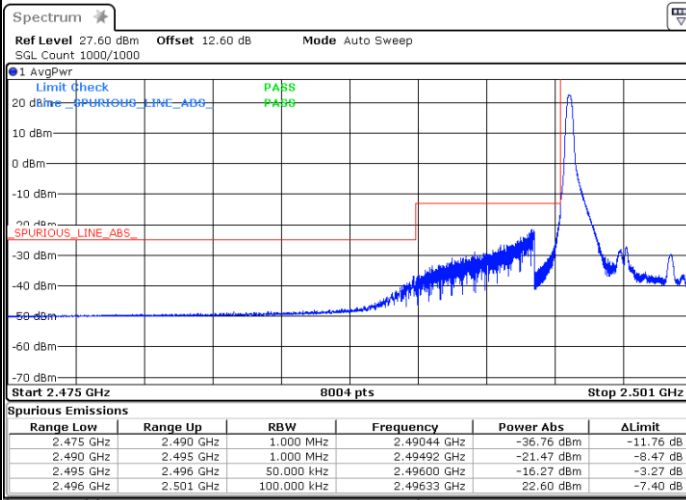
Date: 24.NOV.2023 14:49:44



Conducted Band Edge

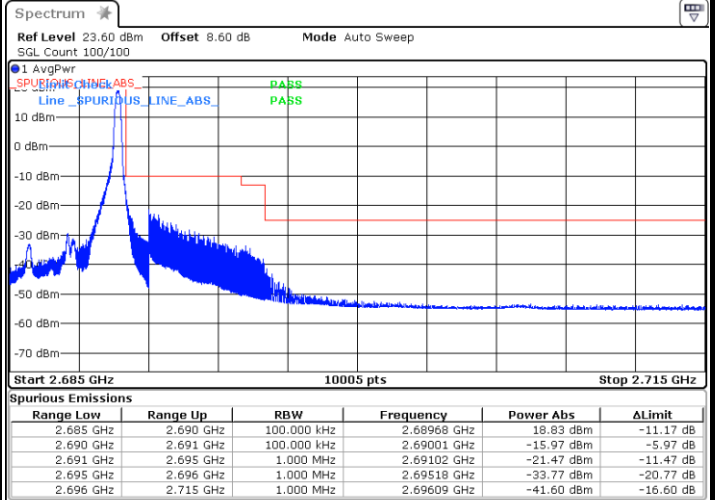
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



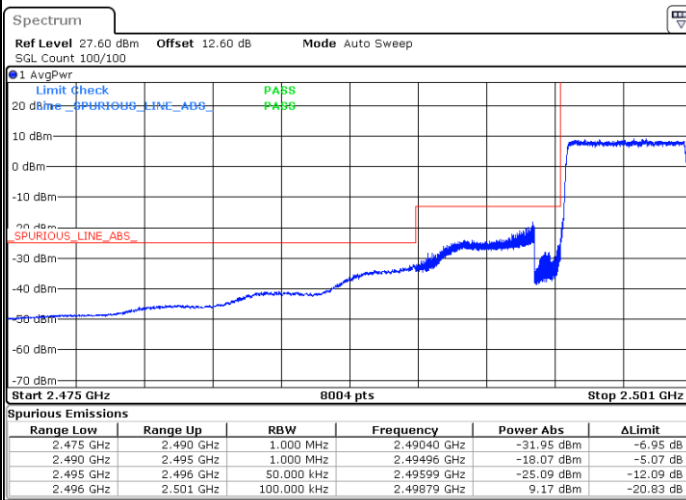
Date: 24.NOV.2023 11:44:38

Highest Band Edge / 1 RB



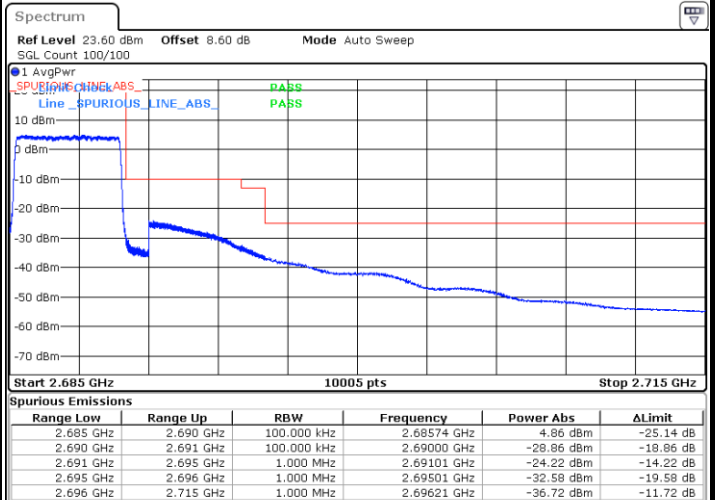
Date: 24.NOV.2023 13:08:21

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:05:17

Highest Band Edge / Full RB

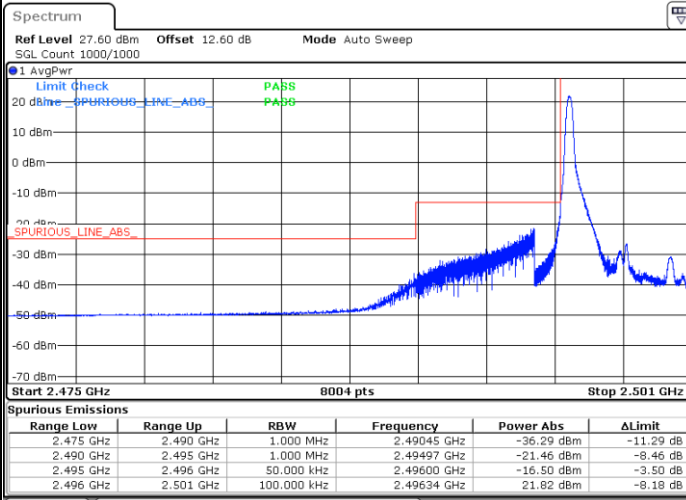


Date: 24.NOV.2023 13:15:29



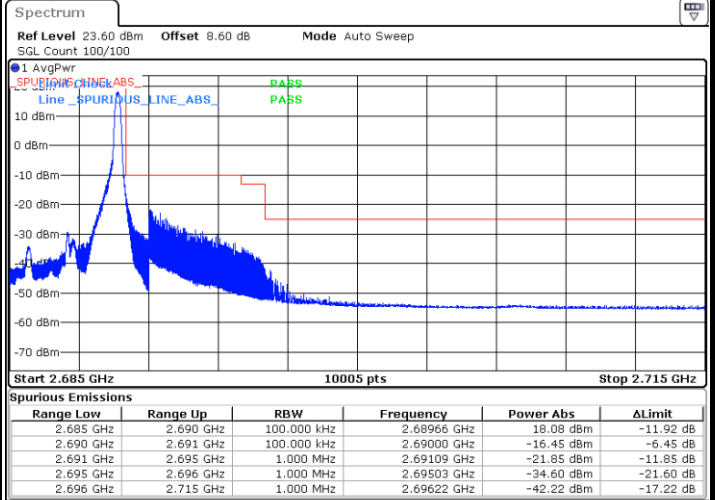
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



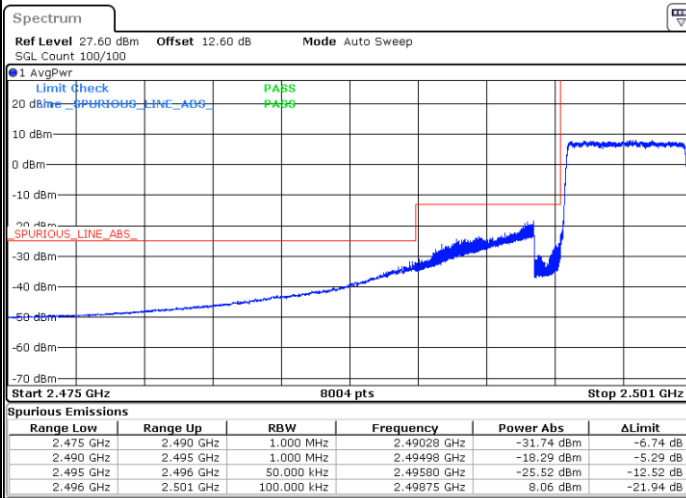
Date: 24.NOV.2023 11:50:25

Highest Band Edge / 1 RB



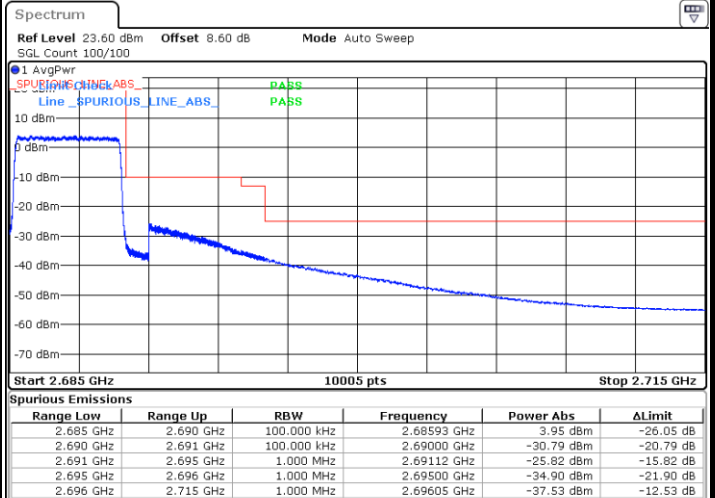
Date: 24.NOV.2023 13:11:04

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:01:00

Highest Band Edge / Full RB

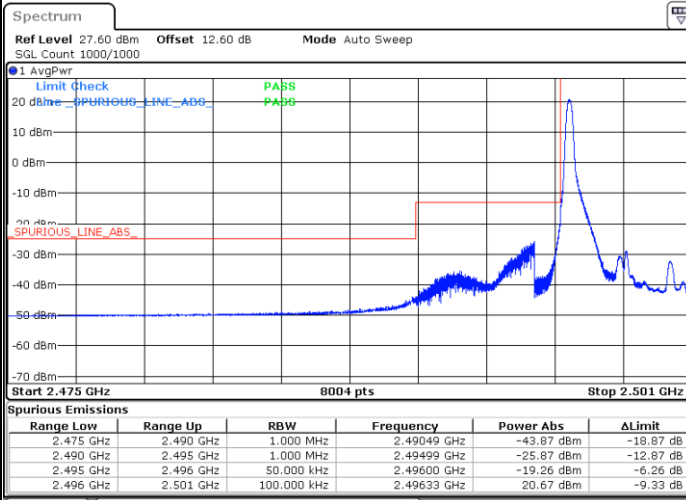


Date: 24.NOV.2023 13:12:39



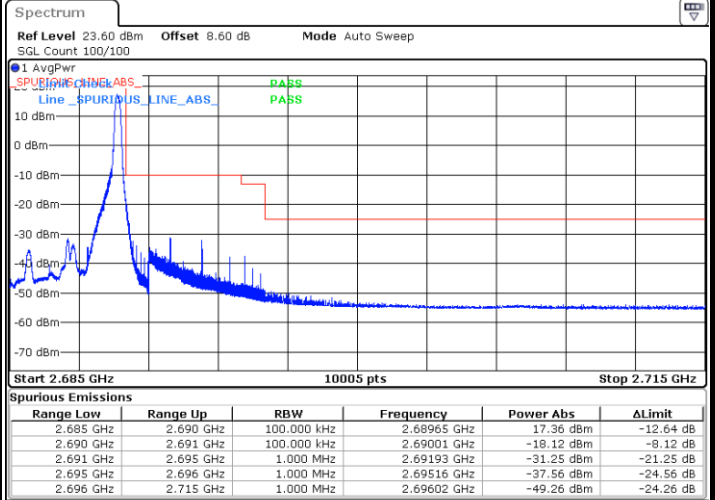
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



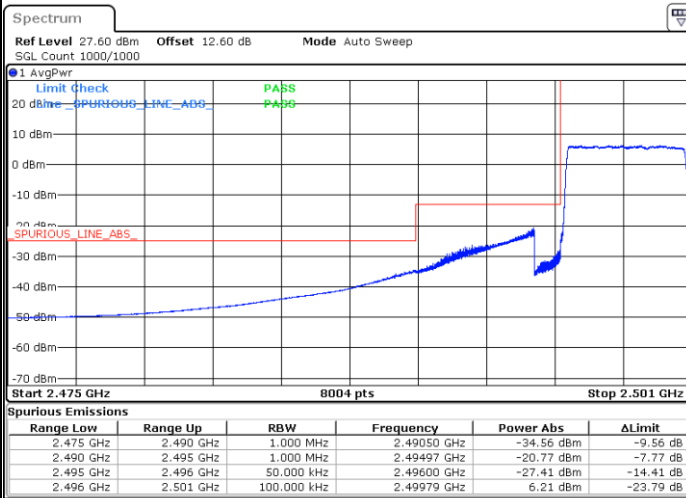
Date: 23.NOV.2023 16:52:21

Highest Band Edge / 1 RB



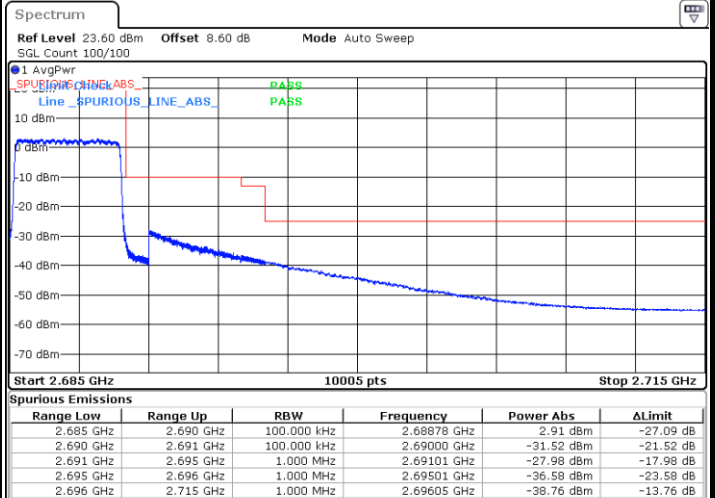
Date: 24.NOV.2023 13:09:38

Lowest Band Edge / Full RB



Date: 23.NOV.2023 16:58:23

Highest Band Edge / Full RB

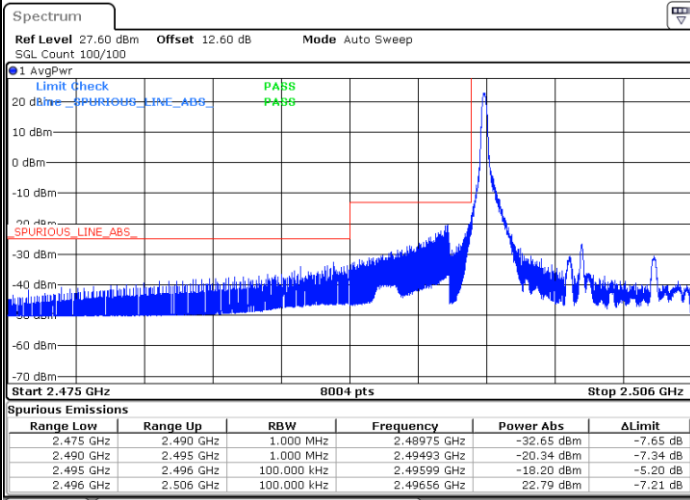


Date: 24.NOV.2023 13:14:13



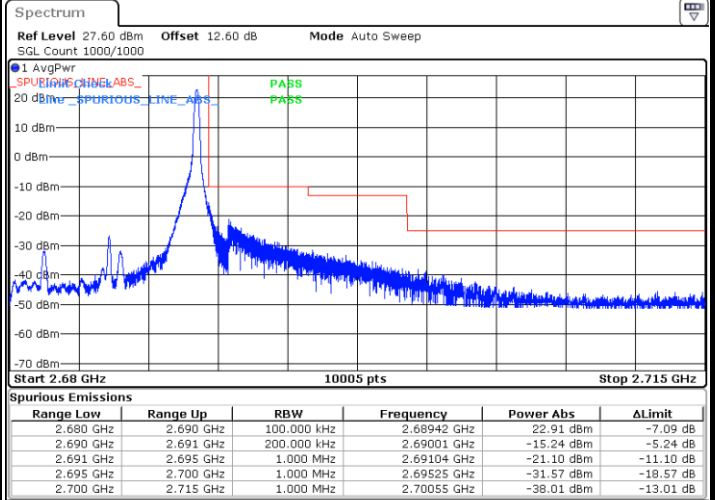
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



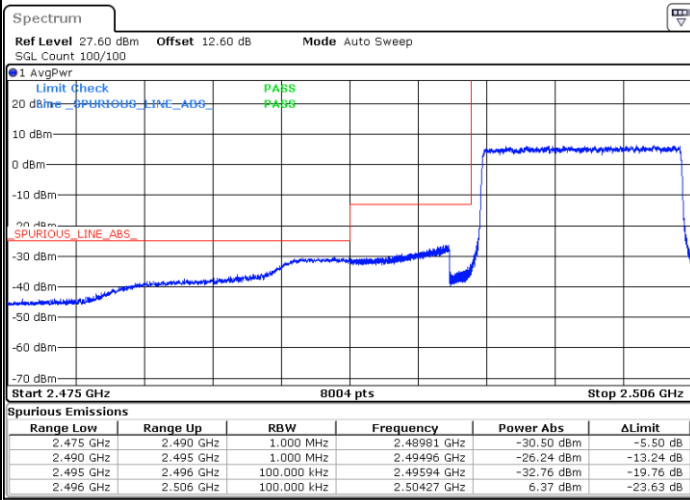
Date: 24.NOV.2023 13:29:44

Highest Band Edge / 1 RB



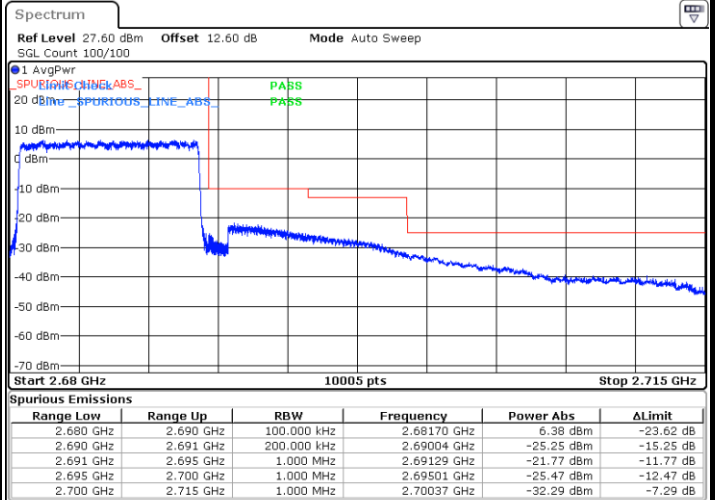
Date: 24.NOV.2023 15:08:35

Lowest Band Edge / Full RB



Date: 24.NOV.2023 13:54:02

Highest Band Edge / Full RB



Date: 24.NOV.2023 14:09:58